ISSUED FOR BIDDING

31 JANUARY 2025

VOLUME 1

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

ABBREVIATIONS

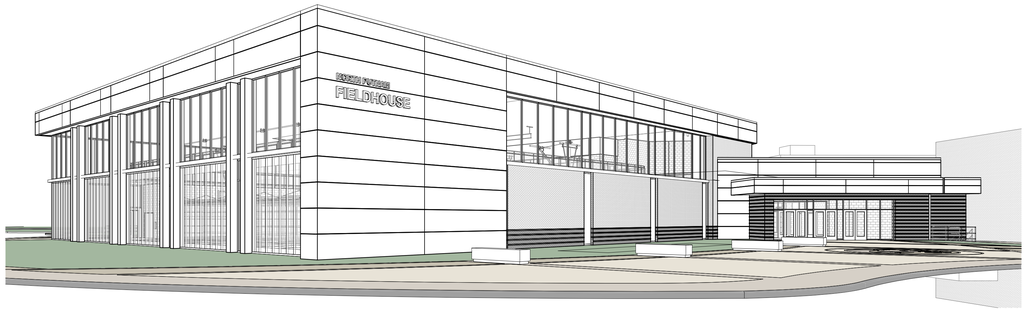
&	AND
<	ANGLE
@	AT
[	CHANNEL
AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITION/ CONDITIONING
ACC	ACCESS
ACOUS	ACOUSTIC, ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AHR	ANCHOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APL	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
AVE	AVERAGE
BD	BOARD
BEV	BEVEL, BEVELED
BITUM	BITUMINOUS/ BITUMASTIC
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BR	BRICK
BRG	BEARING
BRG PL	BEARING PLATE
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOF(ING)
BW	BOTH WAYS
C	CURB
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CFLG	COUNTER FLASHING
CHFR	CHAMFER
CG	CORNER GUARD
CIP	CAST IN PLACE
CIPC	CAST IN-PLACE CONCRETE
CIR	CIRCLE
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR/ CLEARANCE
CM	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CNTCR	CONTRACTOR
CNTR	COUNTER
COL	COLUMN
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDITION
CONN	CONNECT/ CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE/ CONTINUOUS
CORR	CORRIDOR
CPRS	COMPRESSIBLE
CPT	CARPET/ CARPETED
CRS	COLD ROLLED STEEL
CSK	COUNTERSINK/COUNTERSUNK
CSMT	CASEMENT
CT	CERAMIC TILE
C TO C	CENTER TO CENTER
CTR	CENTER
CU	CUBIC
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CUV	CABINET UNIT VENTILATOR
CU YD	CUBIC YARD
D	DEEP
DBL	DOUBLE
DEMO	DEMOLISH/ DEMOLITION
DEP	DEPRESS/ DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION/ DIVIDE
D	DEAD LOAD
DMPF	DAMPPROOFING
DMPR	DAMPER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING/ DRAWINGS
DWR	DRAWER
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC/ ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EMER	EMERGENCY
ENCL	ENCLOSURE
EPB	ELECTRIC PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ESTG	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPAND/ EXPANSION/ EXPOSED
EXH	EXHAUST
EXT	EXTERIOR
FA	FRESH AIR
FB	FLAT BAR
F BRK	FIRE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FF EL	FINISH FLOOR ELEVATION
FG	FIBERGLASS
FGL	FLAT GLASS
FHC	FIRE HOSE CABINET
FIN	FINISH/ FINISHED
FIN FLR	FINISHED FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR/ FLOORING
FLUOR	FLUORESCENT
FP	FIREPROOF/ FIRE PROTECTION
FR	FRAME/ FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT/ FEET
FTG	FOOTING
FURG	FURRING
FURN	FURNACE/ FURNISH
FBO	FURNISH BY OTHERS
G	GROUND
GA	GAGE/ GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GKT	GASKET/ GASKETED
GL	GLASS
GL BLK	GLASS BLOCK
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GR	GRADE/ GRADING
GR FL	GROUND FLOOR
GT	GROUT
GWH	GAS FIRED WATER HEATER
GWT	GLAZED WALL TILES
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HDNR	HARDENER
HDR	HEADER
HDWD	HARDWOOD
HDW	HARDWARE
HP	HIGH POINT
HT	HEIGHT
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HORIZ	HORIZONTAL
HTG	HEATING
HVAC	HEATING/ VENTILATING/ AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCIN	INCINERATOR
INCL	INCLUDE/ INCLUDED/ INCLUDING
INSUL	INSULATION/ INSULATING
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JAN CLO	JANITOR CLOSET
JS	JANITOR'S SINK
J-BOX	JUNCTION BOX
KD	KNOCK DOWN
KOP	KNOCK OUT PANEL
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE/ LAMINATED
LAV	LAVATORY
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LVR	LOUVER
LWC	LIGHT WEIGHT CONCRETE
M	METER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MEDICINE CABINET
MECH	MECHANICAL
MEM	MEMBRANE
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MLWK	MILLWORK
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MODULAR/ MODULAR
MR	MOISTURE RESISTANT
MRF	MARBLE FLOOR
MSB	MOP SERVICE BASIN
MT	MOUNT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFF	OFFICE
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLEBOARD
PC	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERIM	PERIMETER
PERF	PERFORATE/ PERFORATED
PERM	PERMANENT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PL GL	PLATE GLASS
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREFMD	PREFORMED
PRKG	PARKING
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PT CONC	POST-TENSIONED CONCRETE
PTD	PAPER-TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER-TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVG	PAVING/ PAVEMENT
QT	QUARRY TILE
R	RISER, RADIUS
RA	RETURN AIR
RB	RUBBER/ RESILIENT BASE
RBR	RUBBER
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFRIGERATOR, REFRIGERATOR
REFL	REFLECT
REG	REGISTER
REINF	REINFORCE, REINFORCING
REM	REMOVABLE, REMOVE
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION/ REVISED
RFG	ROOFING
RH	RIGHT HAND/ ROOF HATCH
RHR	RIGHT HAND REVERSE
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTF	RUBBER TILE FLOORING
RWD	REDWOOD
RVS	REVERSE
S	SOUTH
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER/ SMOKE DETECTOR
SECT	SECTION
SF	SQUARE FOOT
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SK	SKETCH
SKLT	SKYLIGHT
SLNT	SEALANT
SLV	SLEEVE
SND	SANITARY NAPKIN DISPENSER
SND INS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPCL	SPECIAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SQ IN	SQUARE INCH
SS	SERVICE SINK
SST	STAINLESS STEEL
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL/ STRUCTURE
SUSP	SUSPEND/ SUSPENDED
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TC	TERRA COTTA
TEL	TELEPHONE
TER	TERRAZZO/ TELEPHONE EQUIPMENT ROOM
THK	THICKNESS
THRES	THRESHOLD
TK BD	TACK BOARD
TLT	TOILET ROOM
TOC	TOP OF CURB
TO FDN	TOP OF FOUNDATION
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOS	TOP OF SLAB/ STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VNR	VENEER
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W	WIDE/ WIDTH/ WEST
W/	WITH
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGL	WIRED GLASS
WH	WALL HUNG
WI	WROUGHT IRON
WM	WIRE MESH/ WATER METER
W/O	WITHOUT
WP	WATERPROOFING/ WEATHERPROOF
WR	WATER REPELLENT
WSCT	WAINSCOT
WT	WEIGHT
W/W	WALL TO WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
YD	YARD, YARD DRAIN

MATERIAL DESIGNATION

EXISTING
ACOUSTICAL PANEL
BATT OR LOOSE INSULATION
BRICK
CLAY BACKFILL
CONCRETE
CONCRETE MASONRY UNIT
CUT STONE
GLASS-MAT
GLAZING
GYPSUM BOARD, PLASTER, GROUT, SAND
PLASTER, EXTERIOR INSULATION FINISH SYSTEM
PLYWOOD
RIGID INSULATION
ROUGH LUMBER
STEEL
STONE OR GRAVEL FILL
TOPSOIL
WOOD

SYMBOLS & CALLOUTS

DETAIL CALLOUT — 1 / A6.1 — DRAWING NUMBER / SHEET WHERE DRAWING APPEARS
DETAIL OR SECTION CALLOUT — 1 / A8.1 — DRAWING NUMBER / SHEET WHERE DRAWING APPEARS
CENTER LINE
COLUMN LINE — A
CONTOUR, NEW — 95
CONTOUR, ABANDONED OR EXISTING TO REMAIN — 90
DATUM LINE
DOOR TAG — 102A
ELEVATION CALLOUT — 1 / A4.1 — DRAWING NUMBER / SHEET WHERE DRAWING APPEARS
ELEVATION CALLOUT, MULTIPLE — 1 / 2 / A8.1 — DRAWING NUMBERS / SHEET WHERE DRAWING APPEARS
GLAZING PANEL TAG — G1
STOREFRONT, CURTAINWALL, OR WINDOW TAG — SF1 / CW1
MATCH LINE
REVISION — 1
ROOM TAG — ROOM NAME / 101
TOILET ACCESSORY OR PLUMBING FIXTURE — A
WALL TYPE — M8-1



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VICE PRESIDENT	DAVID McCOLLOUGH
SECRETARY	HEATHER LAWSON
MEMBER	JOANIE KNAPP
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MECHANICAL / PLUMBING / ELECTRICAL ENGINEER
IMEG
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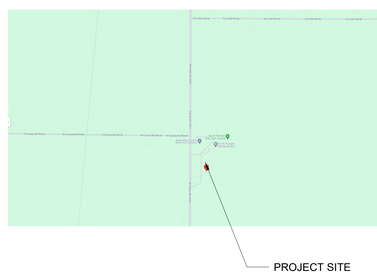
ITASCA, IL 60143 (630) 221-1212

OWNER'S CONSULTANTS
ARCHITECTS
WILLIAMS ARCHITECTS
500 PARK BLVD, SUITE 800
ITASCA, IL 60143 (630) 221-1212

OWNER'S REPRESENTATIVE
KRAMER COMPANIES
36 E. MAIN STREET
BROWNSBURG, IN 46112 (317) 489-8458

LOCATION MAP



CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLY WITH ALL APPLICABLE CODES, INCLUDING PUBLIC LAW 101-336 'AMERICANS WITH DISABILITIES ACT OF 2010' AND MEET ALL OF THE REQUIREMENTS SET FORTH IN THE FEDERAL REGISTER PART III DEPARTMENT OF JUSTICE, ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE ILLINOIS ACCESSIBILITY CODE.

TOM C. POULOS REGISTERED AR10300148 STATE OF INDIANA ARCHITECT
01.31.2025

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TOM C. POULOS REGISTERED AR10300148 STATE OF INDIANA ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

NO.	DATE	REVISIONS DESCRIPTION

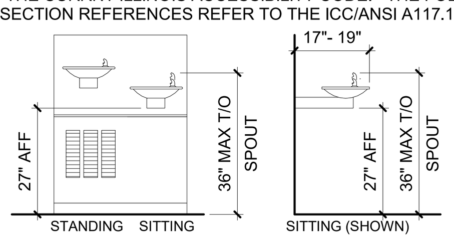
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

TITLE SHEET

G1.1

2/3/2025 11:53:31 AM

THIS FACILITY SHALL COMPLY WITH THE 2017 ADA STANDARDS FOR ACCESSIBLE DESIGN, ICC / ANSI A117.1 "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES" (IF ADOPTED BY LOCAL JURISDICTION), AND THE CURRNT ILLINOIS ACCESSIBILITY CODE. THE FOLLOWING ARE ABBREVIATED REQUIREMENTS FROM THESE PUBLICATIONS. REFER TO THE PUBLICATIONS FOR COMPLETE REQUIREMENTS. ALL SECTION REFERENCES REFER TO THE ICC/ANSI A117.1.



EWC

HI/LO BUILT-IN ACCESSIBLE ELECTRIC WATER COOLER (EWC) ADA COOLER RIGHT SIDE

EWC ADA SIDE ELEVATION

ACCESSIBLE DRINKING FOUNTAINS

GENERAL:
ACCESSIBLE DRINKING FOUNTAINS SHALL COMPLY WITH SECTIONS 602 AND 307.

CLEAR FLOOR SPACE: (ADULT SITTING ACCESSIBLE)
A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITION AN ADULT FOR A FORWARD APPROACH TO THE DRINKING FOUNTAIN, SHALL BE PROVIDED. KNEE AND TOE SPACE COMPLYING WITH SECTION 306 SHALL BE PROVIDED. THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE DRINKING FOUNTAIN.

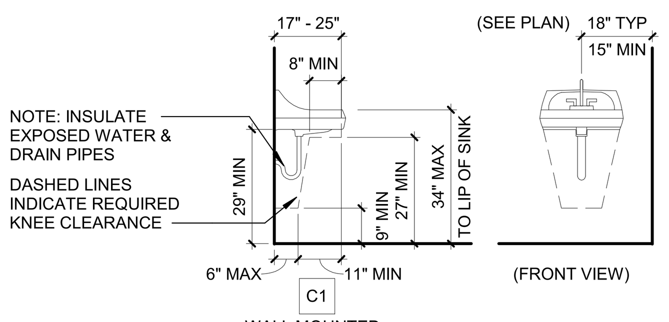
OPERABLE PARTS: (ADULT SITTING ACCESSIBLE AND STANDING)
OPERABLE PARTS SHALL COMPLY WITH SECTION 309.

SPOUT OUTLET HEIGHT: (ADULT SITTING ACCESSIBLE AND STANDING)
SPOUT OUTLETS OF AN ADULT WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36 INCHES MAXIMUM ABOVE THE FLOOR. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FLOOR.

SPOUT LOCATION: (ADULT SITTING ACCESSIBLE AND STANDING)
THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT (SITTING ONLY) AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.

WATER FLOW: (ADULT SITTING AND STANDING)
THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES MINIMUM IN HEIGHT. THE ANGLE OF THE WATER STREAM FROM SPOUTS WITHIN 3 INCHES OF THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 30 DEGREES MAXIMUM, AND FROM SPOUTS BETWEEN 3 INCHES AND 5 INCHES FROM THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 15 DEGREES MAXIMUM, MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE DRINKING FOUNTAIN.

BOTTLE FILLING STATIONS:
BOTTLE FILLING STATIONS SHALL COMPLY WITH SECTIONS 602.
WHERE BOTTLE FILLING STATIONS ARE PART OF THE DRINKING FOUNTAIN FOR PERSONS WHO ARE STANDING, THE BOTTLE FILLING STATION IS NOT REQUIRED TO COMPLY WITH THIS SECTION PROVIDED A BOTTLE FILLING STATION IS LOCATED AT THE DRINKING FOUNTAIN FOR PERSONS USING WHEELCHAIRS. A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD OR SIDE APPROACH SHALL BE PROVIDED. CONTROLS FOR BOTTLE FILLING STATIONS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED CONTROLS SHALL COMPLY WITH SECTION 309.



C1

WALL MOUNTED LAVATORY

ACCESSIBLE LAVATORIES

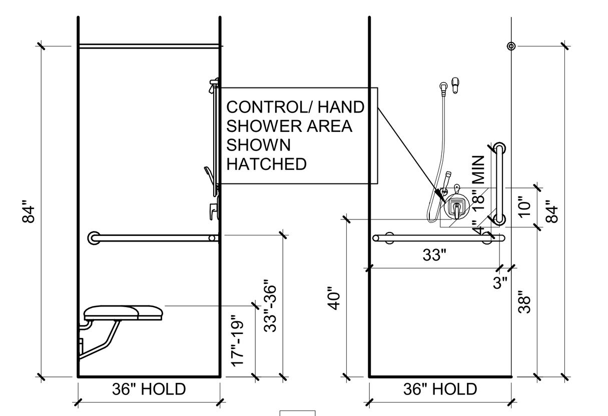
GENERAL: LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 606.

CLEAR FLOOR SPACE:
A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305.3, POSITIONED FOR FORWARD APPROACH, SHALL BE PROVIDED. KNEE AND TOE CLEARANCES COMPLYING WITH SECTION 306 SHALL BE PROVIDED. THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.

HEIGHT:
THE FRONT OF LAVATORIES AND SINKS SHALL BE 34 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE HIGHER OF THE RIM OR COUNTER SURFACE.

FAUCETS:
FAUCETS SHALL COMPLY WITH SECTION 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

EXPOSED PIPES AND SURFACES:
WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.



I

ACCESSIBLE TRANSFER SHOWER

ACCESSIBLE TRANSFER-TYPE SHOWERS

GENERAL:
ACCESSIBLE SHOWER COMPARTMENTS SHALL COMPLY WITH SECTION 608.

SIZE AND CLEARANCES:
TRANSFER-TYPE SHOWER COMPARTMENTS SHALL HAVE A CLEAR INSIDE DIMENSION OF 36 INCHES IN WIDTH AND 36 INCHES IN DEPTH, MEASURED AT THE CENTER POINT OF OPPOSING SIDES. AN ENTRY 36 INCHES MINIMUM IN WIDTH SHALL BE PROVIDED. A CLEARANCE OF 48 INCHES MINIMUM IN LENGTH MEASURED PERPENDICULAR FROM THE CONTROL WALL, AND 36 INCHES MINIMUM IN DEPTH SHALL BE PROVIDED ADJACENT TO THE OPEN FACE OF THE COMPARTMENT.

HORIZONTAL GRAB BAR:
HORIZONTAL GRAB BARS SHALL BE PROVIDED ACROSS THE CONTROL WALL AND ON THE BACK WALL TO A POINT 18 INCHES FROM THE CONTROL WALL.

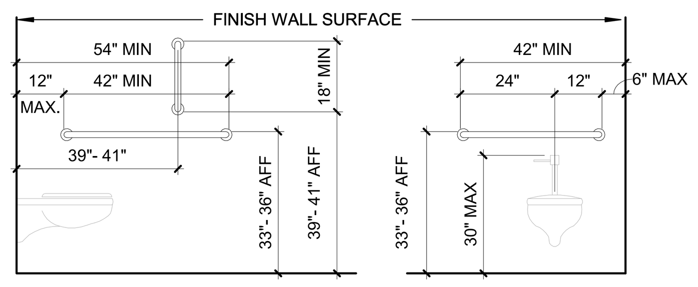
VERTICAL GRAB BAR:
A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE PROVIDED ON THE CONTROL END WALL 3 INCHES MINIMUM TO 6 MAXIMUM ABOVE THE HORIZONTAL GRAB BAR, AND 4 INCHES MAXIMUM INWARD FROM THE FRONT EDGE OF THE SHOWER.

SHOWER COMPARTMENT SEAT:
THE HEIGHT OF THE SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FLOOR, MEASURED TO THE TOP OF THE SEAT. THE SEAT SHALL EXTEND ALONG THE SEAT WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY.

CONTROLS AND HAND SHOWERS:
THE CONTROLS AND HAND SHOWER SHALL BE LOCATED ON THE CONTROL WALL OPPOSITE THE SEAT, 38 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE SHOWER FLOOR, WITHIN 15 INCHES, LEFT OR RIGHT, OF THE CENTERLINE OF THE SEAT.

HAND SHOWERS:
A HAND SHOWER WITH A HOSE 59 INCHES MINIMUM IN LENGTH, THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND SHOWER, SHALL BE PROVIDED. THE HAND SHOWER SHALL HAVE A CONTROL WITH A NONPOSITIVE SHUT-OFF FEATURE. AN ADJUSTABLE-HEIGHT SHOWER HEAD MOUNTED ON A VERTICAL BAR SHALL BE INSTALLED SO AS TO NOT OBSTRUCT THE USE OF GRAB BARS.

THRESHOLDS:
DO NOT PROVIDE A THRESHOLD. DEPRESS THE CONCRETE SLAB 2" TO RECEIVE THE PREMOLDED ACCESSIBLE SHOWER BASE, WHICH SHALL MEET THE ADJACENT FLOOR FLUSH.



D

42" GRAB BAR WITH 18" VERTICAL GRAB BAR

E

ONE PIECE 36" GRAB BAR W/ USE OF REVEALED FLUSH VALVE

ACCESSIBLE WATER CLOSETS

GENERAL:
TOILET AND BATHING ROOMS SHALL COMPLY WITH SECTION 603.

LOCATION:
THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.

HEIGHT:
THE HEIGHT OF THE WATER CLOSET SEATS SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

GRAB BARS:
GRAB BARS FOR WATER CLOSETS SHALL BE PROVIDED ON THE REAR WALL AND ON THE SIDE WALL CLOSEST TO THE WATER CLOSET.

FIXED SIDE WALL GRAB BARS:
FIXED SIDE WALL GRAB BARS SHALL BE 42 INCHES MINIMUM IN LENGTH, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.

REAR WALL GRAB BARS:
THE REAR WALL GRAB BAR SHALL BE 36 INCHES MINIMUM IN LENGTH, AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON THE SIDE CLOSET TO THE WALL, AND 24 INCHES MINIMUM ON THE TRANSFER SIDE. WHERE ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THAT GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA. SHALL COMPLY WITH SECTIONS 609 AND 604.

FLUSH CONTROLS:
FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309 AND BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

DISPENSERS:
TOILET PAPER DISPENSERS SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR. THERE SHALL BE A CLEARANCE OF 1-1/2 INCHES MINIMUM BELOW AND 12 INCHES MAXIMUM ABOVE THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR THAT DO NOT ALLOW CONTINUOUS PAPER FLOW.

COMPARTMENTS:
THE MINIMUM AREA OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL BE 60 INCHES MINIMUM IN WIDTH MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES MINIMUM IN DEPTH FOR WALL HUNG WATER CLOSETS, AND 59 INCHES MINIMUM IN DEPTH FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. ARCHITECT TO CONFIRM.

DOORS- ARCHITECT TO CONFIRM
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 404. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH SECTION 404.2.6 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.

DOOR OPENING LOCATION:
THE FARTHEST EDGE OF THE WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOOR OPENING SHALL BE LOCATED IN THE FRONT WALL OR PARTITION OR IN THE SIDE WALL OR PARTITION AS REQUIRED BY TABLE 604.9.3.1.

TOE CLEARANCE:
THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF12 INCHES MINIMUM ABOVE THE FLOOR AND EXTENDING 8 INCHES BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS.

CLEARANCE:
CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM IN WIDTH, MEASURED PERPENDICULAR FROM THE SIDE WALL. CLEARANCE AROUND THE WATER CLOSET SHALL BE 56 IN INCHES MINIMUM IN DEPTH, MEASURED PERPENDICULAR FROM THE REAR WALL. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

AMBULATORY COMPARTMENT

SIZE:
THE MINIMUM AREA OF AN AMBULATORY ACCESSIBLE TOILET COMPARTMENT SHALL BE 60 INCHES MINIMUM IN DEPTH AND A WIDTH OF 35 INCHES MINIMUM AND 37 INCHES MAXIMUM.

DOORS:
AMBULATORY ACCESSIBLE TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 404. THE DOOR SHALL BE SELF- CLOSING. A DOOR PULL COMPLYING WITH SECTION 404.2.6 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.

GRAB BARS:
GRAB BARS SHALL COMPLY WITH SECTION 609. SIDE WALL GRAB BARS COMPLYING WITH SECTION 604.5.1 SHALL BE PROVIDED ON BOTH SIDES OF THE COMPARTMENT. NO REAR GRAB BAR IS REQUIRED.

ACCESSIBLE COAT HOOKS

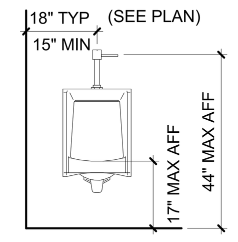
AT LEAST 5% OF EACH TYPE OF COAT HOOKS SHALL BE ACCESSIBLE. PROVIDE ACCESSIBLE COAT HOOK(S) NO HIGHER THAN 48” AFF FOR FORWARD REACH OVER AN OBJECT NO DEEPER THAN 20”, AND FOR A SIDE REACH OF 48” AFF OVER AN OBJECT NO DEEPER THAN 10”. AN ACCESSIBLE 30X48” CLEAR FLOOR SPACE SHALL BE PROVIDED AT ACCESSIBLE COAT HOOKS. REFER TO THE OVERALL FLOOR PLANS AND KEYNOTES, ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING ACCESSIBLE COAT HOOKS.

ACCESSIBLE LOCKERS

AT LEAST 5% OF EACH TYPE OF LOCKER SHALL BE ACCESSIBLE. PROVIDE A COAT HOOK AND SHELF NO HIGHER THAN 48” AFF FOR A SIDE OR FRONT APPROACH. THE BASE SHALL BE NO LOWER THAN 15” AND PROVIDE ACCESSIBLE DOOR HARDWARE. AN ACCESSIBLE 30X48” CLEAR FLOOR SPACE SHALL BE PROVIDED AT ACCESSIBLE LOCKERS. ACCESSIBLE LOCKERS SHALL BE LOCATED NEAR ACCESSIBLE BENCHES. REFER TO THE OVERALL FLOOR PLANS AND KEYNOTES, ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING ACCESSIBLE LOCKERS.

ACCESSIBLE CUBBIES

AT LEAST 5% OF EACH TYPE OF CUBBIES SHALL BE ACCESSIBLE. PROVIDE A SHELF NO HIGHER THAN 48” AFF FOR A SIDE OR FRONT APPROACH. THE BASE SHALL BE NO LOWER THAN 15”. AN ACCESSIBLE 30X48” CLEAR FLOOR SPACE SHALL BE PROVIDED AT ACCESSIBLE CUBBIES. REFER TO THE OVERALL FLOOR PLANS AND KEYNOTES, ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING ACCESSIBLE CUBBIES.



B

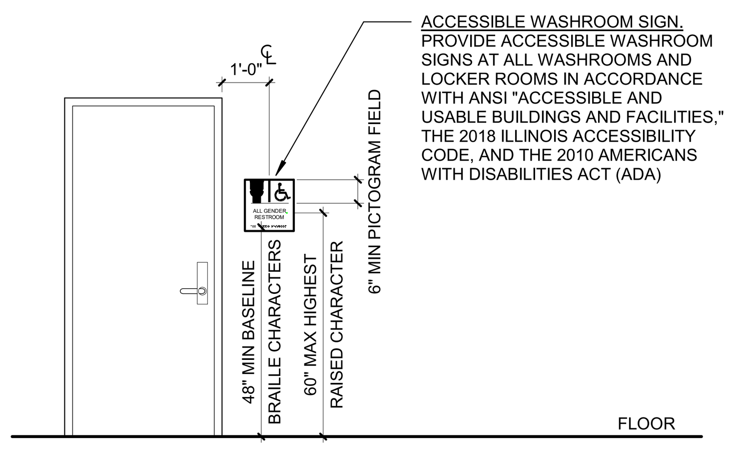
ACCESSIBLE URINAL

ACCESSIBLE URINALS

HEIGHT:
URINALS SHALL BE OF THE STALL TYPE OR SHALL OF THE WALL HUNG TYPE WITH THE RIM AT 17 INCHES MAXIMUM ABOVE THE FLOOR. URINALS SHALL BE 13 1/2" MINIMUM IN DEPTH MEASURING FROM THE OUTER FACE OF THE URINAL RIM TO THE FINISHED WALL SURFACE.

CLEAR FLOOR SPACE:
A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITIONED FOR FORWARD APPROACH, SHALL BE PROVIDED.

FLUSH CONTROLS:
FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309.



ACCESSIBLE SIGNAGE

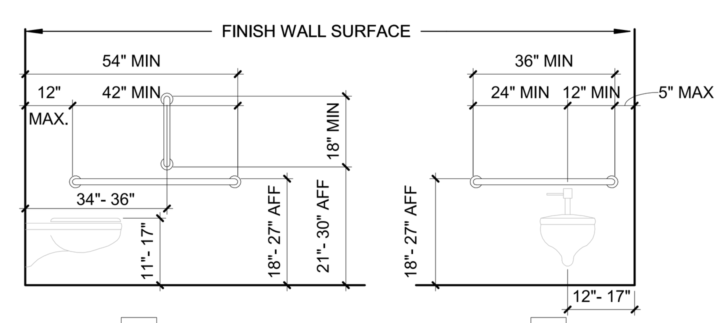
GENERAL:
ACCESSIBLE SIGNS SHALL COMPLY WITH SECTION 703.

VISUAL CHARACTERS, CASE, STYLE, CHARACTER HEIGHT, CHARACTER WIDTH, STROKE WIDTH, CHARACTER SPACING, LINE SPACING, HEIGHT ABOVE FLOOR, AND FINISH AND CONTRAST SHALL COMPLY WITH SECTION 703.2.

TACTILE CHARACTERS, DEPTH, CASE, STYLE, CHARACTER HEIGHT, CHARACTER WIDTH, STROKE WIDTH, CHARACTER SPACING, LINE SPACING, HEIGHT ABOVE FLOOR, AND FINISH AND CONTRAST SHALL COMPLY WITH SECTION 703.3.

BRAILLE UPPERCASE LETTERS, DIMENSIONS, POSITION, AND MOUNTING HEIGHT SHALL COMPLY WITH SECTION 703.4.

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH SECTION 703.6.



D2

42" GRAB BAR WITH 18" VERTICAL GRAB BAR CHILDREN'S HEIGHT

E2

ONE PIECE 36" GRAB BAR W/ USE OF REVEALED FLUSH VALVE CHILDREN'S HEIGHT

ACCESSIBLE CHILDREN'S WATER CLOSETS

GENERAL:
CHILDREN'S TOILET AND BATHING ROOMS SHALL COMPLY WITH SECTION 604.

LOCATION:
THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 12 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.

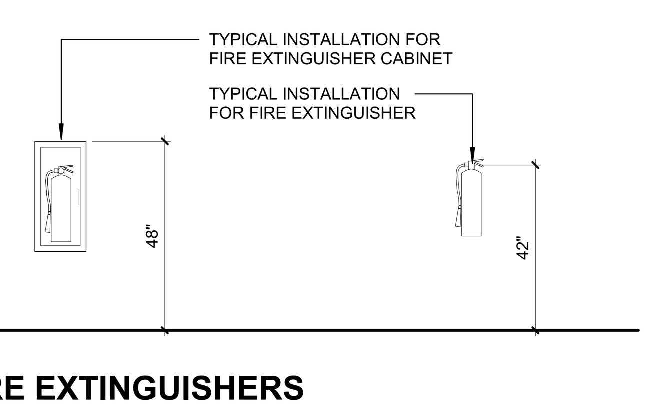
HEIGHT:
THE HEIGHT OF THE WATER CLOSET SEATS SHALL BE 11 INCHES MINIMUM AND 17 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

GRAB BARS:
GRAB BARS FOR WATER CLOSETS SHALL BE PROVIDED ON THE REAR WALL AND ON THE SIDE WALL CLOSEST TO THE WATER CLOSET.

FIXED SIDE WALL GRAB BARS:
FIXED SIDE WALL GRAB BARS SHALL BE 42 INCHES MINIMUM IN LENGTH, LOCATED 12 INCHES MINIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 21 INCHES AND 30 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 34 INCHES AND 46 INCHES FROM THE REAR WALL.

REAR WALL GRAB BARS:
THE REAR WALL GRAB BAR SHALL BE 36 INCHES MINIMUM IN LENGTH, AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 6 INCHES MAXIMUM ON THE SIDE CLOSET TO THE WALL, AND 24 INCHES MINIMUM ON THE TRANSFER SIDE. WHERE ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THAT GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA. SHALL COMPLY WITH SECTIONS 609 AND 604.

DISPENSERS:
TOILET PAPER DISPENSERS SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET. THE OUTLET OF THE DISPENSER SHALL BE 14 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FLOOR. THERE SHALL BE A CLEARANCE OF 1-1/2 INCHES MINIMUM BELOW.. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR THAT DO NOT ALLOW CONTINUOUS PAPER FLOW.



FIRE EXTINGUISHERS

MOUNTING:
FIRE EXTINGUISHERS SHALL BE RECESSED, SEMI-RECESSED (WITH NO MORE THAN A PROJECTION OF 4-INCHES), OR SURFACE MOUNTED, AS INDICATED ON THE DRAWINGS. IF SURFACE MOUNTED, A CANE DETECTABLE BARRIER SHALL BE PROVIDED BELOW 27" AND THE WIDTH OF THE FIRE EXTINGUISHER.

25 \ ACCESSIBILITY GENERAL NOTES

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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
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WILLIAMS
ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
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CHK	TAS

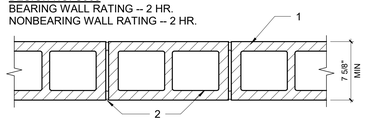
SHEET INDEX & ACCESSIBILITY GENERAL NOTES

G1.2

GENERAL NOTE:

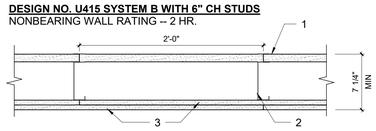
1. RATED ASSEMBLY DESIGN DETAILS ARE CURSORY. CONTRACTOR IS TO INSTALL RATED ASSEMBLIES IN STRICT ACCORDANCE TO THEIR LISTINGS INCLUDING ACCESSORIES AND/OR COMPONENTS NOT SHOWN.
2. FOR ALL REQUIRED RATED ASSEMBLIES NOT SHOWN OR LISTED, REFER TO UL LISTINGS FOR ALL DETAILING, ACCESSORIES AND/OR COMPONENTS. CONTRACTOR TO SUBMIT U.L. DESIGN ALTERNATIVES FOR APPROVAL PRIOR TO CONSTRUCTION.

① **DESIGN NO. U905**
BEARING WALL RATING -- 2 HR.
NONBEARING WALL RATING -- 2 HR.



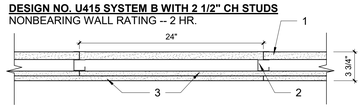
1. CONCRETE BLOCKS — VARIOUS DESIGNS. CLASSIFICATION D-2 (2 HR).
2. MORTAR — BLOCKS LAID IN FULL BED OF MORTAR, NOM. 3/8 IN. THICK, OF NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME). VERTICAL JOINTS STAGGERED.

② **DESIGN NO. U415 SYSTEM B WITH 6" CH STUDS**
NONBEARING WALL RATING -- 2 HR.



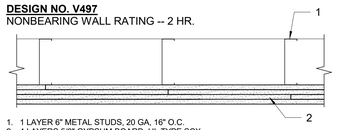
1. 1 LAYER 1" GYPSUM LINER PANEL, UL TYPE SLX.
2. 1 LAYER 6" CH STUDS, 20 GA, 24" O.C.
3. 2 LAYERS 5/8" GYPSUM BOARD, UL TYPE SCX.

③ **DESIGN NO. U415 SYSTEM B WITH 2 1/2" CH STUDS**
NONBEARING WALL RATING -- 2 HR.



1. 1 LAYER 1" GYPSUM LINER PANEL, UL TYPE SLX.
2. 1 LAYER 2 1/2" CH STUDS, 20 GA, 24" O.C.
3. 2 LAYERS 5/8" GYPSUM BOARD, UL TYPE SCX.

④ **DESIGN NO. V497**
NONBEARING WALL RATING -- 2 HR.



1. 1 LAYER 6" METAL STUDS, 20 GA, 16" O.C.
2. 4 LAYERS 5/8" GYPSUM BOARD, UL TYPE SCX.

2012 IBC CHAPTER 29 - PLUMBING SYSTEMS

PLUMBING FIXTURES NOTES
1. PER TABLE 2902.1, NOTE j, "FIXTURES LOCATED IN ADJACENT BUILDINGS UNDER THE OWNERSHIP OR CONTROL OF THE ORGANIZATION THAT ARE AVAILABLE DURING PERIODS THE FACILITY IS OCCUPIED MAY BE USED TO COMPLY WITH REQUIRED FIXTURE COUNTS."
2. THE FIELDHOUSE ADDITION WILL NOT INCREASE THE NUMBER OF OCCUPANTS WITHIN THE FACILITY. TOILET FACILITIES INCLUDED WITHIN THE FIELDHOUSE ADDITION ARE FOR CONVENIENCE.
3. APPROXIMATE ACTUAL NUMBER OCCUPANTS IN THE COMBINED HIGH SCHOOL/MIDDLE SCHOOL FACILITY:

HIGH SCHOOL ACTUAL OCCUPANTS =	APPROX 450 STUDENTS + 40 STAFF =	490 OCCUPANTS
MIDDLE SCHOOL ACTUAL OCCUPANTS =	APPROX 325 STUDENTS + 35 STAFF =	360 OCCUPANTS
	TOTAL =	850 OCCUPANTS

OCCUPANT SCHEDULE - A-3 OCCUPANCY

ROOM NUMBER	ROOM NAME	FUNCTION OF SPACE	AREA	FLOOR AREA ALLOWANCE PER OCCUPANT	IBC 2012 OCCUPANT LOAD
GROUND FLOOR					
H100	VEST.	CIRCULATION	163 SF	0	0
H101	MS LOBBY	CIRCULATION	684 SF	0	0
H102	STAIR	CIRCULATION	301 SF	0	0
H103	STO.	STORAGE / MECHANICAL	1034 SF	300	4
H104	GYM	EXERCISE ROOM	14096 SF	50	282
H105	STO.	STORAGE / MECHANICAL	878 SF	300	3
H106	WEIGHTS	EXERCISE ROOM	3468 SF	50	70
H107	MAIN VEST.	CIRCULATION	599 SF	0	0
H108	MAIN LOBBY	CIRCULATION	1412 SF	0	0
H109	MEN'S DRY CHANGING	LOCKER ROOMS	274 SF	50	6
H110	WOMEN'S DRY CHANGING	LOCKER ROOMS	274 SF	50	6
H112	MAIN STAIR	CIRCULATION	85 SF	0	0
H113	EL.	CIRCULATION	74 SF	0	0
H114	CIRC.	CIRCULATION	76 SF	0	
H115	ELEC.	STORAGE / MECHANICAL	60 SF	300	1
H116	STO.	STORAGE / MECHANICAL	142 SF	300	1
H117	PUMP ROOM	STORAGE / MECHANICAL	138 SF	300	1
					374
UPPER FLOOR					
H201	CIRC.	CIRCULATION	419 SF	0	
H202	TRACK	EXERCISE ROOM	5329 SF	50	107
H203	FITNESS / MULTI - USE	EXERCISE ROOM	3067 SF	50	62
H204	STO.	STORAGE / MECHANICAL	230 SF	300	1
H205	CIRC.	CIRCULATION	470 SF	0	
				TOTAL	170
					544

CODE REVIEW - EXIT ACCESS TRAVEL DISTANCES

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	ALLOWABLE DISTANCE
ROUTE 1A	208'-6"	250'-0"
ROUTE 1C	133'-0"	250'-0"
ROUTE 2A	122'-6"	250'-0"
ROUTE 2B	99'-0"	250'-0"
ROUTE 3A	249'-0"	250'-0"
ROUTE 3E	250'-0"	250'-0"
ROUTE 4D	17'-6"	250'-0"

ACCESSIBILITY CODES

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
IBC CHAPTER 11 AND BY REFERENCE ICC/ANSI A117.1 (2009)

NEW CONSTRUCTION OCCUPANCY

BUILDING ADDITION OCCUPANCY: GROUP A-3 — IBC 2012 SECTION 303.4
TOTAL OCCUPANCY LOAD = 544 PEOPLE — IBC 2012 SECTION 1004.1.2

BUILDING CODES:

BUILDING:	2014 INDIANA BUILDING CODE (2012 IBC)
MECHANICAL:	2014 INDIANA MECHANICAL CODE (2012 IMC)
PLUMBING:	2012 INDIANA PLUMBING CODE (2006 IPC)
ELECTRICAL:	2009 INDIANA ELECTRICAL CODE (2008 NFPA 70)
FIRE CODE:	2014 INDIANA FIRE CODE (2012 IFC)
ENERGY:	2010 INDIANA ENERGY CONSERVATION CODE (2007 ANSI/ASHRAE 90)
POOL:	675 IAC 20

USE AND OCCUPANCY CLASSIFICATION

EXISTING USE GROUP: EDUCATIONAL GROUP E - EDUCATIONAL USE FOR HIGH SCHOOL AND MIDDLE SCHOOL STUDENTS.

ASSEMBLY GROUP A-3 - ASSEMBLY USES TO ACCESSORY TO GROUP E ARE NOT CONSIDERED SEPARATE OCCUPANCIES.

BUSINESS GROUP B - OFFICE USES ACCESSORY OCCUPANCY LESS THAN 10% OF THE BUILDING AREA.

ADDITION USE GROUP: ASSEMBLY GROUP A-3 - GYMNASIUM, SEPARATED FROM EXISTING BUILDING.

SEPARATED MIXED USE. (CLASSIFIED-A)
THE ORIGINAL BUILDING WAS CONSTRUCTED IN 1969 WITH ADDITIONS IN 1990, 1999, AND 2019. THE 1990 AND 1999 ADDITIONS ARE SEPARATED FROM THE ORIGINAL BUILDING WITH 2-HOUR FIRE SEPARATIONS. ORIGINAL AND ADDITIONS ARE TYPE IIB CONSTRUCTION. THE 2019 ADDITION WAS APPROVED BY VARIANCE 19-05-90 WITH NO-RATED EXTERIOR WALLS AND 1-HOUR RATED CORRIDOR WALLS WITH 20-MINUTE DOORS.
NEW ADDITION WILL BE SEPARATED FROM EXISTING BUILDING WITH 2-HOUR FIRE SEPARATIONS.

SPECIAL DETAILED REQUIREMENTS

N/A — N/A

GENERAL BUILDING HEIGHTS AND AREAS:

TYPE OF CONSTRUCTION: II-B

603.1 ALLOWABLE MATERIALS. COMBUSTIBLE MATERIALS SHALL BE PERMITTED IN BUILDINGS OF TYPE I OR II CONSTRUCTION IN THE FOLLOWING APPLICATIONS AND IN ACCORDANCE WITH SECTIONS 603.1.1 THROUGH 603.1.3. (REFER TO IBC 2012 FOR FULL TEXT)

706.4 FIRE-RESISTANT RATING. FIRE WALLS SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN REQUIRED BY TABLE 706.4.
FOOTNOTE A: IN TYPE II OR V CONSTRUCTION, WALLS SHALL BE PERMITTED TO HAVE A 2 HOUR FIRE RESISTANCE RATING.

1009.3 EXIT ACCESS STAIRWAYS, EXCEPTION #1. IN OTHER THAN GROUP I-2 AND I-3 OCCUPANCIES, EXIT ACCESS STAIRWAYS THAT SERVE, OR ATMOSPHERICALLY COMMUNICATE BETWEEN, ONLY TWO STORIES ARE NOT REQUIRED TO BE ENCLOSED. (REFER TO IBC 2012 FOR FULL TEXT)

BUILDING LIMITATIONS

	ALLOWED	ACTUAL
BUILDING HEIGHT (TABLE 503)	55 FEET / 2 STORIES	34'-3 1/2" / 2 STORIES
AREA PER FLOOR (TABLE 503) OF ADDITION	9,500 SF + (9,500 SF x 2) = 28,500 SF. (AREA MODICIFATION PER SECTION 506.3)	25,150 SF GROUND FLOOR 9,900 SF UPPER FLOOR
COMMON PATH TRAVEL DISTANCE (TABLE 1014.3)	75 FEET / A-3	SEE OCCUPANT LOAD PLANS ON G1.3
TRAVEL DISTANCE (TABLE 1016.2)	250 FEET / A-3	SEE OCCUPANT LOAD PLANS ON G1.3
NUMBER OF EXITS AND EXIT CONFIGURATION (SECTION 1020)	THREE EXITS, OR EXIT ACCESS STAIRWAYS OR RAMPS PROVIDING ACCESS TO EXITS AT OTHER STORIES, SHALL BE PROVIDED FROM ANY STORY OR OCCUPIED ROOF WITH AN OCCUPANT LOAD FROM 501 TO 1,000. (1021.2.4)	EIGHT (8)

REQUIRED FIRE RESISTANCE RATINGS:

PRIMARY STRUCTURAL FRAME:	0 HOURS
BEARING WALLS - EXTERIOR	0 HOURS
BEARING WALLS - INTERIOR	0 HOURS
NON BEARING WALLS AND PARTITIONS EXTERIOR - TABLE 602 FIRE SEPARATION DISTANCE INTERIOR	 0 HOUR PER TABLE 602 (> THAN OR = TO 30 FT) 0 HOUR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOURS
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOURS

INTERIOR FINISH CLASSIFICATION:

VERTICAL EXITS AND EXIT PASSAGEWAYS:	CLASS B (TABLE 803.9)
EXIT ACCESS CORRIDOR AND OTHER EXITWAYS	CLASS B (TABLE 803.9) CLASS C (TABLE 803.9)
ROOMS AND ENCLOSED SPACES:	NOT LIMITED (806.1.1)
DECORATIVE MATERIAL: NON COMBUSTIBLE COMBUSTIBLE	MUST MEET FLAME PROPAGATION PERFORMANCE CRITERIA OF NFPA 701 SHALL NOT EXCEED 10 PERCENT OF SPECIFIC WALL OR CEILING AREA TO WHICH IT IS ATTACHED (806.1.2)
INTERIOR TRIM:	REFER TO 806.5

FIRE PROTECTION SYSTEMS

SPRINKLER SYSTEMS (SECTION 903.2.1.3 GROUP A-3)
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING EXIST:
1) FIRE AREA EXCEEDS 12,000 SQUARE FEET (APPLIES)
2) FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE (APPLIES); OR
3) THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES (APPLIES- A-3 OCCUPANCIES LOCATED ON SECOND FLOOR)

STANDPIPE SYSTEMS (SECTION 905)
THE PROPOSED CONSTRUCTION DOES NOT REQUIRE STANDPIPE SYSTEMS PER THE REQUIREMENTS OF THIS SECTION (HIGHEST STORY < 30' ABOVE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS)

FIRE ALARM AND DETECTION SYSTEMS (SECTION 907)
A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE.
EXCEPTION: MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATERFLOW

BUILDING ENVELOPE REQUIREMENTS

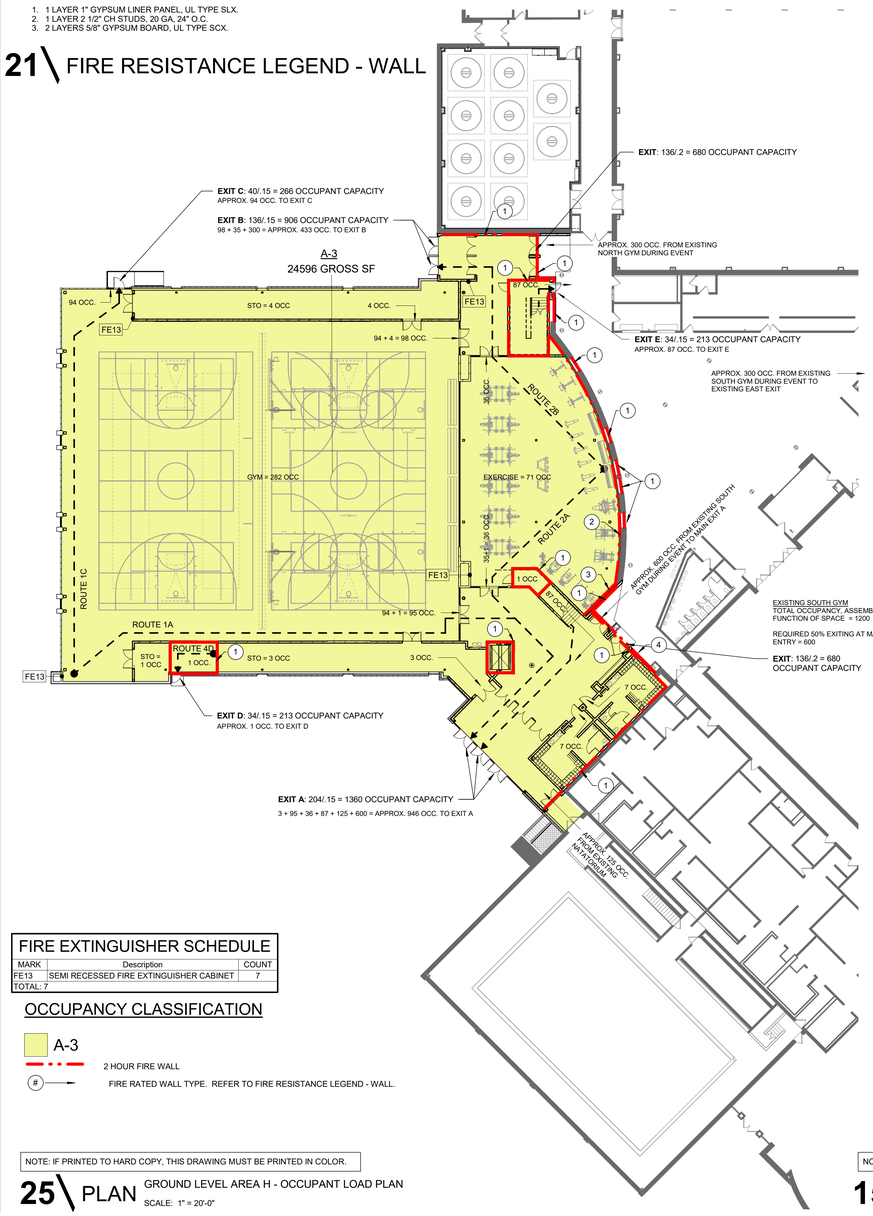
ASHRAE 90.1-2007

CLIMATE ZONE 5A (PUTNAM COUNTY, INDIANA)	MIN REQUIRED	PROVIDED
ROOFS: INSULATION ENTIRELY ABOVE DECK	R-20 ci	R-30 ci
WALLS ABOVE GRADE: MASS	R-11.4 ci	R-12.5 ci
WALLS ABOVE GRADE: STEEL FRAMED	R-13 + R7.5 ci	R-13 + R12.5 ci
WALLS BELOW GRADE	R-7.5 ci	R-7.5 ci
SLAB ON GRADE FLOORS: UNHEATED	NR	R-15 FOR 24"
OPAQUE DOORS (SWINGING)	U-0.700 MAX	U-0.370 MAX
OPAQUE DOORS (NON-SWINGING)	U-0.500 MAX	U-0.310 MAX
FENESTRATION: CURTAIN WALL OR STOREFRONT	U-0.45 MAX	U-0.38 MAX
FENESTRATION: ALL OTHER	U-0.45 MAX	U-0.46 MAX
FENESTRATION: ENTRANCE DOOR	U-0.80 MAX	U-0.68 MAX

OTHER REQUIREMENTS: THE ENTIRE BUILDING ENVELOPE WILL BE DESIGNED TO INCLUDE A CONTINUOUS AIR BARRIER.

10 OCCUPANCY AND CODE REVIEW TABLES

21 FIRE RESISTANCE LEGEND - WALL



FIRE EXTINGUISHER SCHEDULE		
MARK	Description	COUNT
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7
TOTAL: 7		

OCCUPANCY CLASSIFICATION

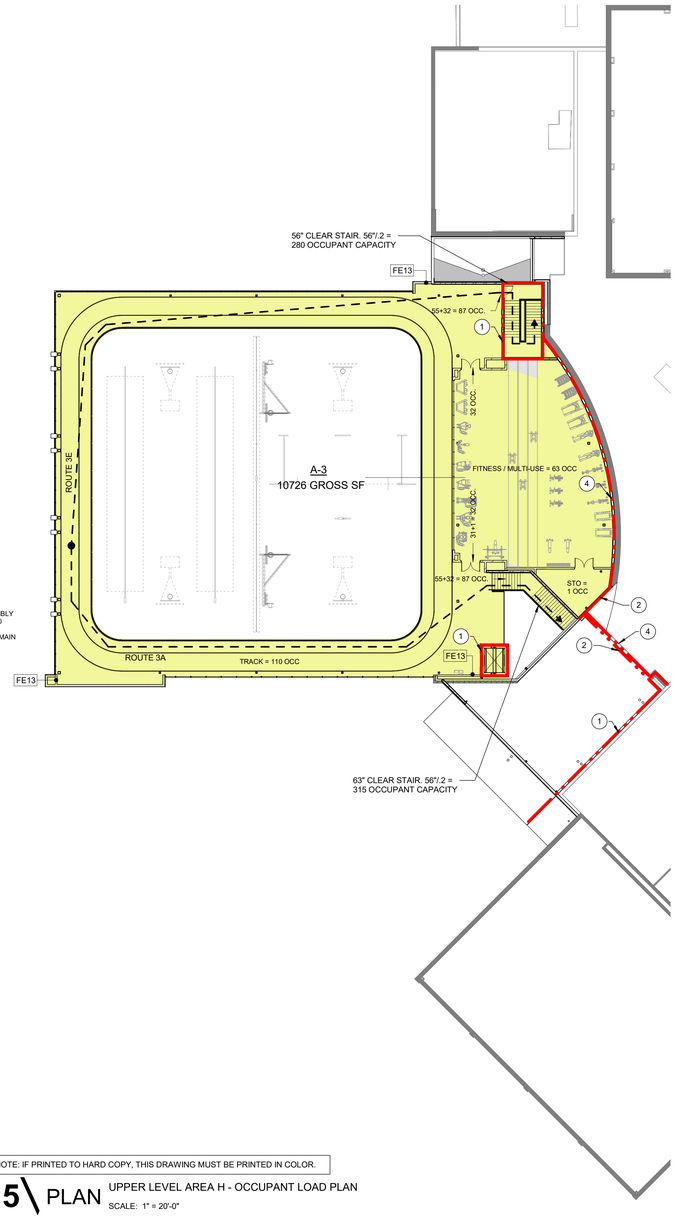
A-3

2 HOUR FIRE WALL

(#) FIRE RATED WALL TYPE. REFER TO FIRE RESISTANCE LEGEND - WALL.

NOTE: IF PRINTED TO HARD COPY, THIS DRAWING MUST BE PRINTED IN COLOR.

25 PLAN GROUND LEVEL AREA H - OCCUPANT LOAD PLAN
SCALE: 1" = 20'-0"



NOTE: IF PRINTED TO HARD COPY, THIS DRAWING MUST BE PRINTED IN COLOR.

15 PLAN UPPER LEVEL AREA H - OCCUPANT LOAD PLAN
SCALE: 1" = 20'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

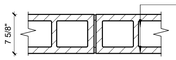
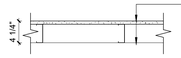
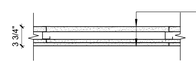
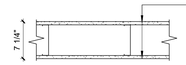
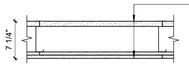
REVISIONS		
NO.	DATE	DESCRIPTION

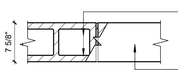
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

CODE DATA

G1.3

2/3/2025 8:48:35 AM

FULL HEIGHT WALL	6" (GYP) OR ONE COURSE (CMU) ABOVE CEILING	TO UNDERSIDE OF FINISHED CEILING
F2-1 • 5/8" TYPE "X" GYP BRD • 1 1/2" FURRING CHANNELS @ 16" OC		
M4-1 • 4" (NOMINAL) CMU	M4-1A	
 M8-1 • 8" (NOMINAL) CMU 2 HOUR RATED ASSEMBLY. **UL DESIGN NO. U-905.** M8-1Y		
 S4-4 • 5/8" TYPE "X" GYP BRD • 3 5/8" STEEL STUDS @ 16" OC	S4-4D	
 S4-4Y 2 HOUR RATED ASSEMBLY. **UL DESIGN NO. U-415.** • 1" GYPSUM LINER PANEL, UL TYPE SLX. • 2 1/2" CH STUDS, 20 GA, 24" O.C. • (2) LAYERS 5/8" GYPSUM BOARD, UL TYPE SCX.		
 S6-1 • 5/8" TYPE "X" GYP BRD • 6" STEEL STUDS @ 16" OC • 5/8" TYPE "X" GYP BRD		
S6-4 • 5/8" TYPE "X" GYP BRD • 6" STEEL STUDS @ 16" OC • 5/8" TYPE "X" GYP BRD	S6-4D	
S6-6 • (2) LAYERS 5/8" TYPE "X" GYP BRD • 6" STEEL STUDS @ 16" OC • (2) LAYERS 5/8" TYPE "X" GYP BRD		
 S6-6Y 2 HOUR RATED ASSEMBLY. **UL DESIGN NO. U-415.** • 1" GYPSUM LINER PANEL, UL TYPE SLX. • 6" CH STUDS, 20 GA, 24" O.C. • (2) LAYERS 5/8" GYPSUM BOARD, UL TYPE SCX.		

PARTIAL HEIGHT WALL
 M8-1C • 8" (NOMINAL) CMU • SOILD CMU AT TOP COURSE • BULLNOSE ALL EXPOSED EDGES.

WALL SCHEDULE - INTERIOR

TYPE MARK	COUNT	DESCRIPTION	FIRE RATING
(F) STEEL FURRING CHANNEL			
F2-1	20	5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON ONE SIDE OF 1 5/8" STEEL FURRING CHANNELS@ 16" OC.	
(M) CONCRETE MASONRY UNIT			
M4-1A	5	4" CMU. ONE FULL COURSE ABOVE FINISHED CEILING. BULLNOSE ALL EXPOSED EDGES.	
M8-1	64	8" CMU. SECURE TO STRUCTURE TOP AND BOTTOM. BULLNOSE ALL EXPOSED EDGES.	
M8-1C	1	8" CMU. PARTIAL HEIGHT PARTITION. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR HEIGHT AFF. BULLNOSE ALL EXPOSED EDGES.	
M8-1Y	44	8" CMU. SECURE TO STRUCTURE TOP AND BOTTOM. BULLNOSE ALL EXPOSED EDGES. 2 HOUR RATED ASSEMBLY. UL DESIGN NO. U-905.	2
(S) STEEL STUD			
S4-4D	14	5/8" TYPE "X" GYP BRD ON ONE SIDE OF 3 5/8" STEEL STUDS @ 16" OC WITH CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE. REFER TO SECTIONS AND ELEVATIONS FOR SOFFIT HEIGHT.	
S4-6Y	2	2 LAYERS OF 5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON INTERIOR SIDE OF 4" STEEL SHAFTWALL STUDS @ 24" OC WITH 1" GYPSUM LINER PANELS ON EXTERIOR SIDE OF STUD AND CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE. FIRE SAFTING TOP AND BOTTOM. 2 HOUR RATED ASSEMBLY. UL DESIGN NO. U-415.	2
S6-1	5	5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON EACH SIDE OF 6" STEEL STUDS @ 16" OC WITH CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE.	
S6-4	7	5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON ONE SIDE OF 6" STEEL STUDS @ 16" OC WITH CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE.	
S6-4D	2	5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON ONE SIDE OF 6" STEEL STUDS @ 16" OC WITH CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE.	
S6-6Y	5	2 LAYERS OF 5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON INTERIOR SIDE OF 6" STEEL STUDS @ 24" OC WITH 1" GYPSUM LINER PANELS ON EXTERIOR SIDE OF STUD AND CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE. FIRE SAFTING TOP AND BOTTOM. 2 HOUR RATED ASSEMBLY. UL DESIGN NO. U-415.	2
S6-7Y	2	FOUR LAYERS OF 5/8" TYPE "X" GYP BRD TIGHT TO STRUCTURE TOP AND BOTTOM ON ONE SIDE OF 6" STEEL STUDS @ 16" OC WITH CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE. FIRE SAFTING TOP AND BOTTOM. 2 HOUR RATED ASSEMBLY. UL DESIGN NO. V497.	2

INTERIOR WALL TAG REFERENCE GUIDE

S 4 - 1 A S

WALL CONSTRUCTION	WALL WIDTH: (SHOWS A ROUNDED VALUE FOR THE WIDTH OF THE STRUCTURAL PORTION OF THE WALL)	WALL DESIGNATOR	WALL MODIFIERS: WALL HEIGHT:	WALL MODIFIERS: WALL CONSTRUCTION:
CH C-H STUD	CH2: 2 1/2" C-H STUD CH4: 4" C-H STUD CH6: 6" C-H STUD	NUMERIC VALUE. SEE SCHEDULE	BLANK = FULL HEIGHT TO UNDERSIDE OF DECK/ STRUCTURE A: WALL TO RUN 6" ABOVE CEILING OR ONE FULL COURSE FOR TYPE M WALLS B: WALL TO RUN TO UNDERSIDE OF CEILING C: PARTIAL HEIGHT WALL. SEE ELEV/ PLANS FOR HEIGHT D: SOFFIT E: USER DEFINED (PROVIDE SOLID CMU TOP COURSE FOR PARTIAL HEIGHT MASONRY WALLS. BULLNOSE ALL EXPOSED EDGES) (PROVIDE TOP CAP FOR PARTIAL HEIGHT STEEL OR WOOD STUD WALLS)	F: SPRAY FOAM OR RIGID INSULATION G: GROUT CMU CORES SOLID H: USER DEFINED I: DO NOT USE J: STRIKE CMU JOINTS FLUSH K: USER DEFINED L: USER DEFINED M: USER DEFINED N: USER DEFINED O: DO NOT USE P: USER DEFINED Q: USER DEFINED R: USER DEFINED S: STC-RATED/ SOUND BATT INSULATION T: DECORATIVE CMU U: DO NOT USE SMOKE/ FIRE RATING V: SMOKE PARTITON W: USER DEFINED RATING X: 1 HOUR Y: 2 HOURS Z: 3 HOURS
F FURRING CHANNEL	F1: 7/8" STEEL FURRING CHANNEL F2: 1 1/2" STEEL FURRING CHANNEL			
M MASONRY	M2: 2" CMU SOAP (1 5/8" ACTUAL) M4: 4" CMU (3 5/8" ACTUAL) M6: 6" CMU (5 5/8" ACTUAL) M8: 8" CMU (7 5/8" ACTUAL) M10: 10" CMU (9 5/8" ACTUAL) M12: 12" CMU (11 5/8" ACTUAL)			
S STEEL STUD	S1: 1 5/8" STEEL STUD S2: 2 1/2" STEEL STUD S4: 3 5/8" STEEL STUD S5: 5 1/2" STEEL STUD S6: 6" STEEL STUD			
W WOOD STUD	W2: 2x2 WOOD STUD W3: 2x3 WOOD STUD W4: 2x4 WOOD STUD W6: 2x6 WOOD STUD			

GENERAL NOTES - FULL HEIGHT WALLS

1. CONTINUOUS RUNNERS TOP AND BOTTOM ALL SECURED TO STRUCTURE.
2. TILE BACKER BOARD TO EXTEND TO 6" ABOVE THE UNDERSIDE OF FINISHED CEILING SYSTEM. 5/8" TYPE "X" GYP BRD ABOVE TILE BACKER BOARD.
3. PROVIDE TILE BACKER BOARD AT TILE, SOLID SURFACE WALL PANEL, OR TUB/SHOWER SURROUND LOCATIONS. PROVIDE MOISTURE RESISTANT (MR) FIBERGLASS FACED GYP BRD FOR PAINTED WALLS. REFER TO ID SHEETS AND INTERIOR ELEVATIONS TO DETERMINE WALL FINISH.
4. REFER TO USG DESIGN MANUAL FOR ALL FIRE OR SOUND RATED WALL ASSEMBLIES. INCLUDE ACOUSTICAL SEALANT AND DABS WHERE REQUIRED
5. ALL WALLS TO BE 16" MAX OC UNO. WALL HEIGHTS OR STUD CONFIGURATON MAY REQUIRE REDUCING STUD SPACING AND/OR REDUCING STUD GAUGE.
6. AT CMU WALLS, BULLNOSE ALL EXPOSED EDGES.

GENERAL NOTES - PARTIAL HEIGHT WALLS (C)

1. REFER TO ID SHEETS AND INTERIOR ELEVATIONS FOR AREAS TO RECEIVE TILE. PROVIDE TILE BACKER BOARD FOR TILED WALLS AND MOISTURE RESISTANT (MR) FIBERGLASS FACED GYP BRD FOR PAINTED WALLS.
2. ALL WALLS TO BE 16" MAX OC UNO. WALL HEIGHTS OR STUD CONFIGURATON MAY REQUIRE REDUCING STUD SPACING AND/OR REDUCING STUD GAUGE.
3. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR HEIGHT AFF OF PARTIAL HEIGHT PARTITION.
4. PROVIDE CLARK DIETRICH PONY WALL OR SIMILAR SUPPORT POST FOR ANY UNSUPPORTED WALL EXCEEDING 36" IN LENGTH.
5. AT CMU WALLS, BULLNOSE ALL EXPOSED EDGES.

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TONY C. POLLIS REGISTERED AR10300148 STATE OF INDIANA ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

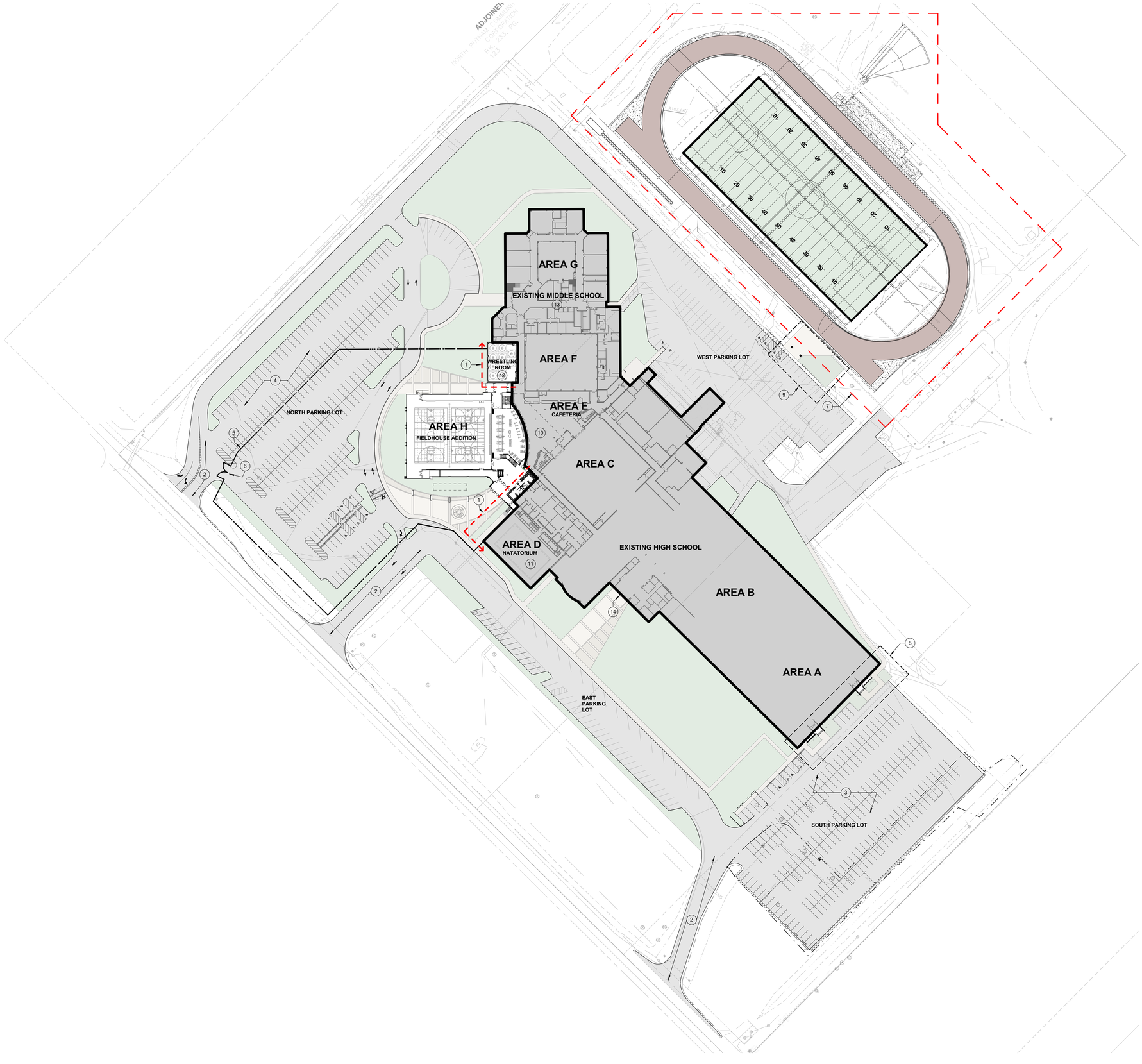
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

WALL TYPES

G1.4

2/3/2025 9:48:35 AM



GENERAL PHASING NOTES

A. THE OWNER AND PUBLIC WILL BE OCCUPYING PORTIONS OF THE SITE DURING THE ENTIRE CONSTRUCTION PERIOD. THE AREAS OCCUPIED BY THE OWNER AND PUBLIC SHALL AT ALL TIMES BE MAINTAINED IN A SAFE CONDITION.

B. DO NOT OBSTRUCT ACCESS TO THE PORTIONS OF THE BUILDING OR SITE OCCUPIED BY THE OWNER AND THE PUBLIC DURING SCHOOL HOURS.

C. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SIGNAGE AS REQUIRED TO PROTECT THE PUBLIC AND TO DIRECT NON-CONSTRUCTION RELATED TRAFFIC AROUND AREAS OF WORK.

D. REFER TO SECTION 011000 "SUMMARY" AND SUPPLEMENTAL GENERAL CONDITIONS OF CONTRACT FOR INFORMATION REGARDING SCHOOL SCHEDULES AND RELATED INFORMATION.

E. OUTSIDE OF THE CONSTRUCTION FENCE COORDINATE WITH OWNER REGARDING USAGE OF PARKING STALLS. THE OWNER RESERVES THE RIGHT TO REDUCE THE NUMBER OF STALLS AVAILABLE IF NECESSARY DUE TO SCHEDULED EVENTS. CONTRACTOR'S VEHICLES MAY NOT BE LEFT ON SITE OUTSIDE OF FENCED CONSTRUCTION AREA AFTER HOURS OR ON WEEKENDS.

F. THE CONTRACTOR SHALL ARRANGE FOR ALL DELIVERIES OF MATERIALS TO THE SITE. THE OWNER SHALL NOT BE RESPONSIBLE FOR ACCEPTANCE OF ANY DELIVERIES.

G. THE OWNER'S DUMPSTERS ARE NOT TO BE USED BY THE CONTRACTOR. MAINTAIN ACCESS FOR OWNER AND FOR REFUSE REMOVAL SERVICE.

H. ALL AREAS OF THE SITE DISTURBED BY THE CONTRACTOR DURING THE COURSE OF THE WORK SHALL BE RESTORED TO CONDITIONS THAT MEET OR EXCEED CONDITIONS EXISTING PRIOR TO START OF THE WORK. THE CONTRACTOR SHALL REPAIR ALL DAMAGES TO THE EXISTING SITE AND STRUCTURES TO REMAIN CAUSED BY THE WORK.

I. THE CONTRACTOR SHALL KEEP THE SITE CLEAN OF DEMOLITION AND CONSTRUCTION RELATED DEBRIS, AND PREVENT WINDBLOWN DEBRIS FROM LEAVING THE WORK AREA. THE CONTRACTOR SHALL PROMPTLY RETRIEVE WINDBLOWN DEBRIS FROM OUTSIDE THE WORK AREA.

J. ALL PUBLIC STREETS, SIDEWALKS, AND RIGHT-OF-WAYS DAMAGED, DISTURBED, OR DIRTIED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED, REPAIRED, OR CLEANED TO MATCH EXISTING IN ACCORDANCE WITH STATE, COUNTY, AND / OR LOCAL REQUIREMENTS. CLEAN STREETS AND SIDEWALKS AT THE END OF EACH WORK DAY (OR MORE OFTEN AS NECESSARY) OF ANY MUD AND / OR DEBRIS LEFT BY CONSTRUCTION ACTIVITIES.

K. COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS, INCLUDING NOISE ORDINANCES. THE CONTRACTOR SHALL ADJUST WORK SCHEDULE AS NECESSARY TO COMPLY.

L. THE CONTRACTOR SHALL NOT STORE OR STAGE ANY CONSTRUCTION RELATED MATERIALS OR EQUIPMENT OUTSIDE OF THE WORK LIMITS SHOWN WITHOUT WRITTEN PERMISSION PROVIDED BY THE OWNER.

M. AT SITE SECURITY FENCING THE CONTRACTOR SHALL PROVIDE AN EMERGENCY KEY BOX (KNOX BOX) AS REQUIRED BY LOCAL AUTHORITIES.

PHASING PLAN KEYNOTES

#	NOTE
1	MAINTAIN SAFE EGRESS PATH DURING FIELDHOUSE CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES / OVERHEAD PROTECTION AS REQUIRED.
2	DO NOT OBSTRUCT VEHICLE DRIVE DURING SCHOOL HOURS AND SCHOOL EVENTS. COORDINATE WITH OWNER AS REQUIRED.
3	REFER TO SUPPLEMENTAL GENERAL CONDITIONS OF THE CONTRACT REGARDING OWNERS REQUIRED SCHEDULE FOR WORK IN SOUTH PARKING LOT.
4	TEMPORARILY RESTRIPE THIS AREA OF EXISTING PARKING LOT FOR USE BY THE PUBLIC DURING THE CONSTRUCTION PERIOD.
5	ANTICIPATED CONSTRUCTION FENCING. CONTRACTOR TO COORDINATE AS REQUIRED.
6	ANTICIPATED CONSTRUCTION ENTRANCE. CONTRACTOR TO COORDINATE AS REQUIRED.
7	ATHLETICS COMPLEX WORK BY SEPARATE CONTRACTOR WILL BE PERFORMED DURING THE WORK OF THIS PROJECT. ANTICIPATED COMPLETION DATE IS AUGUST 25, 2025. CONTRACTOR SHALL COORDINATE WITH OWNERS SEPARATE CONTRACTOR AS REQUIRED.
8	HIGH SCHOOL SOUTH ENTRY IMPROVEMENTS BY ALTERNATE. REFER TO SHEET A11.1.
9	ATHLETICS COMPLEX ENTRY ARCH IMPROVEMENTS. REFER TO SHEET A11.2.
10	REFER TO SUPPLEMENTAL GENERAL CONDITIONS OF THE CONTACT REGARDING OWNERS REQUIRED SCHEDULE FOR JOIST REINFORCEMENT IN EXISTING CAFETERIA.
11	REFER TO SUPPLEMENTAL GENERAL CONDITIONS OF THE CONTACT REGARDING OWNERS REQUIRED SCHEDULE FOR WORK WITHIN NATATORIUM.
12	REFER TO SUPPLEMENTAL GENERAL CONDITIONS OF THE CONTACT REGARDING OWNERS REQUIRED SCHEDULE FOR WORK WITHIN WRESTLING ROOM.
13	REFER TO SUPPLEMENTAL GENERAL CONDITIONS OF THE CONTACT REGARDING OWNERS REQUIRED SCHEDULE FOR MIDDLE SCHOOL HVAC IMPROVEMENTS
14	HIGH SCHOOL MAIN ENTRY MUST REMAIN ACCESSIBLE WHILE SCHOOL IS IN SESSION. SIDEWALK IMPROVEMENTS EXPECTED TO OCCUR DURING SUMMER 2026. CONTRACTOR TO COORDINATE WITH OWNER.

NOTE: IF PRINTED TO HARD COPY, THIS DRAWING MUST BE PRINTED IN COLOR.

25 PLAN OVERALL SITE PLAN
SCALE: 1" = 60'-0"

2/3/2025 8:48:46 AM

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TONY C. POULOS
REGISTERED
AR10300148
STATE OF
INDIANA
ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON. DOCS.
DWR LTT
CHK TAS

PHASING INFORMATION

G1.5

NORTH PUTNAM MIDDLE SCHOOL AND HIGH SCHOOL

FIELD HOUSE ADDITION & IMPROVEMENTS

8869 COUNTY RD 250 E

ROACHDALE, IN 46172

100% DD SET

NOVEMBER 1, 2024

PROJECT TEAM:

DEVELOPER/OWNER
NORTH PUTNAM COMMUNITY SCHOOLS
8869 CR 250 E
ROACHDALE, IN 46172
(XXX) 679-XXXX
CONTACT: X
EMAIL: X@X.in.us

ARCHITECT
WILLIAMS ARCHITECTS
500 PARK BOULEVARD, SUITE 800
ITASCA, IL 60143
(XXX) 604-XXXX
CONTACT: TED STROMSWOLD
EMAIL: X@X.com

CIVIL ENGINEER
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
530 E. OHIO ST., STE. G
INDIANAPOLIS, IN 46204
PH: (317) 655-7777
CONTACT: AARON HURT
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SURVEYOR
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530 E. OHIO ST., STE. G
INDIANAPOLIS, IN 46204
PH: (317) 655-7777
CONTACT: ANTHONY SYERS
EMAIL: asyers@cecinc.com

LIST OF CONTACTS:

GAS SERVICE
ROACHDALE MUNICIPAL UTILITY
PO BOX 198
205 N INDIANA ST
ROACHDALE, IN 46172
PHONE:(765)522-1532

WATER SERVICE
WELLS ON-SITE

SANITARY SEWER SERVICE
BAINBRIDGE MUNICIPAL UTILITIES
201 NORTH GRANT AVENUE
BAINBRIDGE, IN 46105
(765)720-0998
ERIC GIBSON

STORMWATER
PUTNAM COUNTY SOIL AND WATER
1007 MILL POND LANE, STE C
GREENCASTLE, IN 46135
Phone: (765) 653-5716 x3

STREETS AND HIGHWAYS
PUTNAM COUNTY HIGHWAY DEPARTMENT
1624 W CO. RD. 225 S.
GREENCASTLE, IN 46135
(765) 653-4714

VOLUNTEER FIRE DISTRICT
EMERGENCY: 911

PUTNAM COUNTY EMERGENCY OPERATIONS CENTER
1600 W CO RD 225 S
GREENCASTLE, IN 46135
(765) 653-5115
EMERGENCY: 911

ELECTRIC SERVICE
DUKE ENERGY
3395 GREENBUSH ST
LAFAYETTE, IN 47905
PHONE:(800)774-0292

GAS UTILITY
CENTERPOINT ENERGY (SOUTH)
P.O. BOX 4583
HUSTON, TEXAS 77210-4583
PHONE:(800)227-1376

INTERNET SERVICE/TELEPHONE SERVICE
COMMUNICATIONS CORPORATION/
TDS TELECOM
117 E WASHINGTON ST,
TIPTON, IN 46072
PHONE:(855)523-1109
PHONE:(317)769-7092
CHRISTOPHER BENELE

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88 (GEOID 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: MAG NAIL ON TOP OF THE SOUTH END OF A 15" RCP CULVERT PIPE UNDER THE NORTHERN MOST ENTRANCE TO THE SITE FROM COUNTRY ROAD 250 E.
ELEV. = 935.07

TBM#2: MAG NAIL ON TOP OF THE WEST SIDE OF A LIGHT POLE BASE LOCATED APPROXIMATELY 10 FEET WEST OF THE NORTH END OF THE LONG JUMP EVENT.
ELEV. = 934.57

TBM#3: MAG NAIL ON TOP OF THE NORTH SIDE OF THE EASTERN MOST LIGHT POLE BASE ON THE SOUTH END OF THE SOUTHERN MOST PARKING LOT ON THE SITE.
ELEV. = 936.74

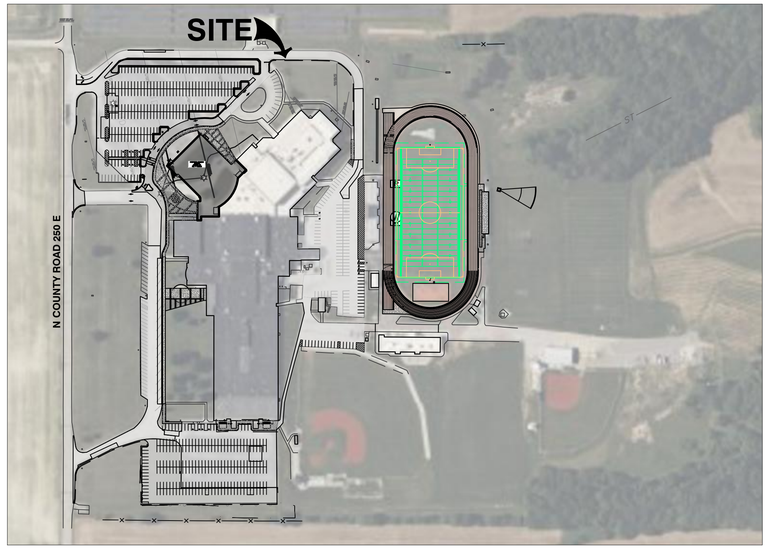
UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2403221896 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

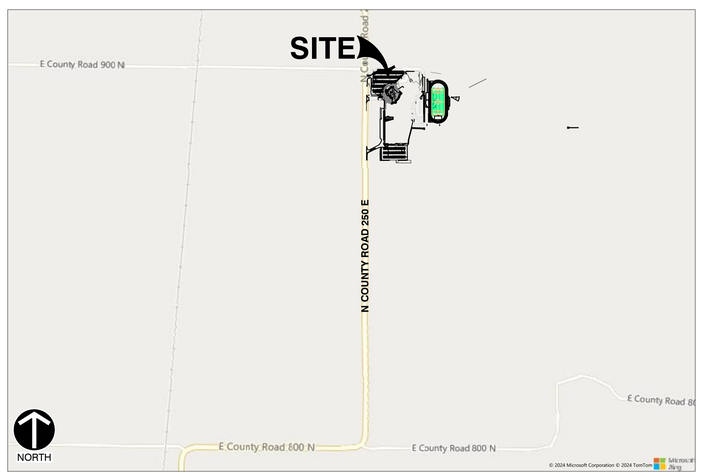
REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.



NORTH

SITE MAP
SCALE: 1"=100'
SCALE IN FEET
0 100 200



NORTH

LOCATION MAP
BASE IMAGE FROM GOOGLE EARTH
ACCESSED JAN. 2022
SCALE: 1"=500'
SCALE IN FEET
0 1000 2000

SHEET INDEX

Sheet Description	Sheet Title	Sheet Number
00	COVER SHEET	C000
01	~~COVER SHEET - ATHLETICS~~	C001
02	GENERAL NOTES	C002
03 - 04	BOUNDARY RETRACEMENT SURVEY	BNDRY
05 - 10	TOPOGRAPHIC SURVEY	TOPO
11	OVERALL SITE DEMOLITION PLAN	C100
12	SITE DEMOLITION PLAN	C101
13	SITE DEMOLITION PLAN	C102
14	SITE DEMOLITION PLAN	C103
15	SITE DEMOLITION PLAN	C104
16	SITE DEMOLITION PLAN	C105
17	OVERALL LAYOUT PLAN	C200
18	LAYOUT PLAN	C201
19	LAYOUT PLAN	C202
20	LAYOUT PLAN	C203
21	LAYOUT PLAN	C204
22	LAYOUT PLAN	C205
23	OVERALL GRADING AND DRAINAGE PLAN	C300
24	GRADING AND DRAINAGE PLAN - ATHLETIC	C301
25	GRADING AND DRAINAGE PLAN	C302
26	GRADING AND DRAINAGE PLAN	C303
27	GRADING AND DRAINAGE PLAN	C304
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29	SITE DETAILS - ATHLETIC	C800
30	SITE DETAILS	C801
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32	OVERALL STORMWATER POLLUTION PREVENTION PLAN	C900
33	STORMWATER POLLUTION PREVENTION PLAN	C901
34	STORMWATER POLLUTION PREVENTION PLAN	C902
35	STORMWATER POLLUTION PREVENTION PLAN	C903
36	STORMWATER POLLUTION PREVENTION PLAN	C904
37	STORMWATER POLLUTION PREVENTION PLAN	C905
38	STORMWATER POLLUTION PREVENTION NOTES	C906
39	STORMWATER POLLUTION PREVENTION DETAILS	C907
40	STORMWATER POLLUTION PREVENTION DETAILS	C908

PROJECT INFORMATION:

- PROPERTY AREA = 41.75 AC.
- PERMIT DISTURBANCE = 4.3 AC. = FIELDHOUSE ADDITION AND ASSOCIATED IMPROVEMENTS.
- ALTERNATE DISTURBANCE = 0.66 AC.

- MAINTENANCE 6.59 AC
- ATHLETICS 4.51 AC
- TOTAL PROJECT 16.0 AC

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

COVER SHEET

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C000

P:\130-000\337-620\-CADD\dwg\CX03-Construction Documents\337620-CX03-C001.dwg(C000) LST(1/31/2025 = sjones) - LP: 1/31/2025 6:38 PM

GENERAL NOTES

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
3. 72 HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE INDIANA UTILITY PROTECTION SERVICES, AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF INDIANA UNDERGROUND PROTECTION, INC.
4. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
5. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
6. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
8. ANY WORK PERFORMED IN THE LOCAL RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE PUTNAM COUNTY REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
9. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE INDIANA EPA (IDEM) FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. OWNER WILL OBTAIN NPDES PERMIT.
10. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY PUTNAM COUNTY AND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).
11. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS, BUT NOT MORE THAN 14 DAYS AFTER EXPOSURE. SEE SHEET C907 FOR TEMPORARY SEEDING REQUIREMENTS.
12. ITEM NUMBERS REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF PUTNAM COUNTY. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.
13. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
14. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
15. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
16. ADJUST/RECONSTRUCT ALL EXISTING CASTINGS, CLEANOUTS, ETC. WITHIN PROJECT AREA TO GRADE AS REQUIRED.
17. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED. FINAL CONDITION OF ALL PAVEMENT IN MILL AND RESURFACE AREAS SHALL BE IN GOOD CONDITION. IF HEAVY CONSTRUCTION EQUIPMENT IN STAGING AREAS CAUSES MILLED PAVEMENT TO FAIL, THEN FULL DEPTH REPLACEMENT SHALL BE INCLUDED FOR SUCH AREAS.
18. ALL STANDARD PARKING PLACES ARE 9' BY 18'.
19. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
20. CONCRETE WALKS SHALL BE <THICKNESS>" THICK OVER <THICKNESS>" COMPACTED GRAVEL WITH CONTROL JOINTS EQUALLY SPACED AT NO MORE THAN <WIDTH>' ON CENTER, EXPANSION JOINTS AT NO MORE THAN <SPACING>' ON CENTER. ALL SIDEWALKS ARE TO BE BROOM FINISHED.

REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

DEMOLITION NOTES

1. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS AND FOOTINGS. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIALS AND COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.
2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD BY THE CONTRACTOR.
3. NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
4. TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THE PUTNAM COUNTY STANDARDS – OR – IN ACCORDANCE WITH THE DETAILED DRAWINGS. DO NOT OPERATE OR STORE EQUIPMENT, NOR HANDLE OR STORE MATERIALS WITHIN THE DRIP LINES OF THE TREES SHOWN TO REMAIN.
5. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
6. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AND AT THE CONTRACTOR'S EXPENSE.
7. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY / AGENCY. UTILITY CONTACTS ARE LISTED ON THE COVER SHEET.
8. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR OBTAINS PRIOR WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
9. EROSION & SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.
10. ASBESTOS OR HAZARDOUS MATERIALS ARE <NOT EXPECTED/ANTICIPATED>, IF FOUND ON SITE, SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
11. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
12. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
13. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC.. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
15. PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT WHERE INDICATED ALONG LIMITS OF PAVEMENT DEMOLITION.
16. ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL, WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY AND/OR AGENCY. DEMOLITION OF REGULATED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO WELLS, ASBESTOS, UNDER GROUND STORAGE TANKS, SEPTIC TANKS AND ELECTRIC TRANSFORMERS. DEMOLITION CONTRACTOR SHALL REFER TO ANY ENVIRONMENTAL STUDIES FOR DEMOLITION RECOMMENDATIONS AND GUIDANCE. AVAILABLE ENVIRONMENTAL STUDIES MAY INCLUDE, BUT ARE NOT LIMITED TO PHASE I ESA, PHASE II, WETLAND AND STREAM DELINEATION AND ASBESTOS SURVEY. ALL APPLICABLE ENVIRONMENTAL STUDIES SHALL BE MADE AVAILABLE UPON REQUEST.
17. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., WITHIN THE AREA TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE IF THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL INVESTIGATION. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE AREAS TO RECEIVE LANDSCAPING.
18. THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITIES.

LAYOUT NOTES

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
4. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN IN ACCORDANCE WITH THE SPECIFICATIONS.
5. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS "<CLASS>" (<STRENGTH> PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
6. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN, WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
7. SITE DIMENSIONS SHOWN ARE TO THE FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. COORDINATES ARE FOR BUILDING COLUMNS, EXTERIOR BUILDING WALL, CENTER OF DRIVEWAYS, CENTER OF SANITARY SEWER MANHOLES, AND CENTER OF STRUCTURE PLACED SIX INCHES INSIDE FACE OF CURB FOR DRAIN INLETS, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON-SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
10. REFER TO THE ARCHITECTURAL, PLUMBING & ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.
11. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE PUTNAM COUNTY. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

GRADING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINAL GRADES, TOP OF GROUND LEVEL, OR TOP OF PAVEMENT, OR GRATE ELEVATION AT THE DRAWDOWN POINT, UNLESS INDICATED OTHERWISE.
2. REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT BY<NAME OF COMPANY> TITLED <NAME> AND DATED <DATE>.
3. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS (REPORT DATED: <DATE>). BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE, THEN PLACEMENT & COMPACTION OF BACKFILL MATERIAL PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
4. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. (REPORT DATED: <DATE>).
5. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
6. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION & SEDIMENT CONTROL PLAN PREPARED FOR THIS PROJECT.
7. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
8. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
9. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM).
10. PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2% AND SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
11. ALL SLOPES IN NON-PAVED AREAS SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
12. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN, UNLESS NOTED OTHERWISE.
13. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
14. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
15. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.
16. TOPSOIL VOLUMES ESTIMATED AS PART OF THIS PROJECT ASSUME THAT A MINIMUM OF 12 INCHES OF SOIL AND TOPSOIL WILL BE STRIPPED FROM THE SITE. THE ACTUAL VOLUME WILL BE BASED ON EQUIPMENT USED AND THE CONTRACTOR'S MEANS AND METHODS. CEC AND THE OWNER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S INTERPRETATION OF TOPSOIL THICKNESS AND RESULTING INCREASED VOLUMES. NO ADDITIONAL COSTS WILL BE PAID TO THE CONTRACTOR FOR AN INCREASE IN THE VOLUME OF TOPSOIL STRIPPED AND STOCKPILED.

STORM DRAINAGE NOTES

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. ALL CATCH BASINS IN THE PAVEMENT OR CURB ARE TO HAVE A MINIMUM OF ONE, 4" PERFORATED UNDERDRAIN EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION. SEE DETAIL ON SHEET <SHEET>.
5. ANY FIELD TILE CUT IN EXCAVATION, WHICH DRAINS AN OFFSITE AREA, MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
6. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, CONTRACTOR IS TO COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
7. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.
8. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTION ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
9. ALL STORM STRUCTURES ARE <STATE> DOT TYPES UNLESS OTHERWISE INDICATED.
10. ALL CATCH BASINS AND MANHOLES WITH A DEPTH GREATER THAN (4) FOUR FEET SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF INDIANA DOT STANDARDS AND SPECIFICATIONS.
11. STORM SEWER PIPE LABELED "<STM>" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35, PVC PROFILE PIPE PER <STATE OR CITY DOT NO.>, OR HIGH DENSITY POLYETHYLENE PER <STATE OR CITY DOT NO.>. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE,. ALL STORM IS TO BE INSTALLED PER PUTNAM COUNTY STANDARDS AND SPECIFICATIONS.
12. STORM SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.

UTILITY NOTES

1. ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE UTILITY PROVIDER STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH THE APPROPRIATE AGENCY AND NOTIFY THE OWNER AT LEAST TWO WEEKS PRIOR TO ANY UTILITY DISCONNECTION. WHEN POSSIBLE UTILITY DISCONNECTIONS SHOULD TAKE PLACE DURING SCHOOL BREAKS.
2. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. MAINTAIN MINIMUM 10-FOOT HORIZONTAL AND 18-INCH MINIMUM VERTICAL SEPARATION BETWEEN SANITARY SEWER, STORM SEWER AND WATER SUPPLY LINE, UNLESS OTHERWISE INDICATED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.
6. ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
7. SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
8. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE, CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM & SANITARY STRUCTURES ARE SHOWN TO THE CENTER STRUCTURE. UNLESS OTHERWISE NOTED.
9. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
10. ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE INDICATED.
11. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
12. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED 18" BELOW WATERMAIN AT ALL CROSSINGS. WATERMAIN SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER OR STORM SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERMAIN PIPE. ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.
13. ALL WATER EXISTING IRRIGATION PIPING ENCOUNTERED 2" AND SMALLER, SHALL BE K SOFT COPPER FROM WATERMAIN THRU CURB STOP; K SOFT COPPER OR <UTILITY AGENCY / DISTRICT / MUNICIPALITY / COMPANY> APPROVED POLYTUBING FROM <CURB STOP THRU METER SETTING IN BUILDING>.
14. WATERLINE IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88 (GEOID 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: MAG NAIL ON TOP OF THE SOUTH END OF A 15" RCP CULVERT PIPE UNDER THE NORTHERN MOST ENTRANCE TO THE SITE FROM COUNTRY ROAD 250 E.
ELEV. = 935.07

TBM#2: MAG NAIL ON TOP OF THE WEST SIDE OF A LIGHT POLE BASE LOCATED APPROXIMATELY 10 FEET WEST OF THE NORTH END OF THE LONG JUMP EVENT.
ELEV. = 934.57

TBM#3: MAG NAIL ON TOP OF THE NORTH SIDE OF THE EASTERN MOST LIGHT POLE BASE ON THE SOUTH END OF THE SOUTHERN MOST PARKING LOT ON THE SITE.
ELEV. = 936.74

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2403221896 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

GENERAL NOTES

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:	337-620		
APPROVED BY:	DRAFT		

DRAWING NO.:
C002

P:\330-000\337-620\-CADD\Dwg\CV03-Construction Documents\337620-CV03-C001.dwg{C002} LS:(1/21/2025 - sjones) - LP: 1/31/2025 6:29 PM

NORTH

INDIANA STATE PLANE
WEST ZONE BEARINGS

NW CORNER NE 1/4,
SEC. 36, T.16N., R.4W.
CALCULATED

FD. 16"x16" CONCRETE POST
ON LINE @ R/W

ADJOINER
NORTH PUTNAM COMMUNITY SCHOOL
CORPORATION
BK. 233, PG. 123

NE CORNER, NW 1/4, NE 1/4
SEC. 36, T.16N., R.4W.
MID-DISTANCE

ILLEGIBLE 5/8" REBAR
0.1' ABOVE GRADE

NORTH LINE NE 1/4 – SECTION 36, T.16N., R.4W.

S 89°50'04" E 1319.12'(M)

S 89°50'04" E 1404.49'(M)

S 89°50'04" E 1319.12'(M)

NE CORNER, NE 1/4
SEC. 36, T.16N., R.4W.
FD. 6" WOOD POST

15' DUKE ENERGY EASEMENT
INSTR. 2019005096

15' DUKE ENERGY EASEMENT
INSTR. 2019005096

15' DUKE ENERGY EASEMENT
INSTR. 2019005095

15' DUKE ENERGY EASEMENT
INSTR. 2019005097

TWO-STORY
BUILDING
(SCHOOL)

180.5'

15'

(ACCESS)

19.5'

19.5'

297.5'

COUNTY ROAD 250 E.
(39' PUBLIC RIGHT-OF-WAY)

WEST LINE NE 1/4 – SECTION 36, T.16N., R.4W.
N 00°03'12" E 1329.32'(M)

EAST R/W
C.R. 250 E.

EAST LINE NW 1/4, NE 1/4 – SECTION 36, T.16N., R.4W.
S 00°04'29" E 767.54'(M)

S 00°01'18" E 767.25'(M)

ADJOINER
NORTH PUTNAM COMMUNITY SCHOOL
CORPORATION
BK. 131, PG. 281

REBAR SET
"CEC FIRM #0122"

REBAR SET
"CEC FIRM #0122"

S 89°58'43" W 84.65'(M)

S 00°04'29" E 558.74'(M)

279.0'

REBAR SET @ R/W
"CEC FIRM #0122"

FARM FENCE BETWEEN
1.3' NORTH & 1.6' SOUTH OF LINE

1.3'

1.6'

N 89°58'00" W 1322.09'(M)

SE CORNER, NW 1/4, NE 1/4
SEC. 36, T.16N., R.4W.
MID-DISTANCE
REBAR SET
"CEC FIRM #0122"

S 89°58'00" E 1322.09'(M)

SOUTH LINE N 1/2, NE 1/4 – SECTION 36, T.16N., R.4W.

SE CORNER, NE 1/4, NE 1/4
SEC. 36, T.16N., R.4W.
FD. STONE @ CORNER
& UNCAPPED 5/8" REBAR
0.5' ABOVE GRADE
0.2' SOUTH OF CORNER

SW CORNER, NW 1/4, NE 1/4
SEC. 36, T.16N., R.4W.
CALCULATED

ADJOINER
NORTH PUTNAM COMMUNITY SCHOOL
CORPORATION
INSTR. #2009004574

N 0°03'12" E
1329.32'(M)

SW CORNER, NE 1/4
SEC. 36, T.16N., R.4W.
CALCULATED

N 0°03'30" E
2639.98'

SW CORNER, SE 1/4
SEC. 36, T.16N., R.4W.
FD. HARRISON MONUMENT @ CORNER
& HARRISON MONUMENT
17.7' EAST OF CORNER

VICINITY MAP
NOT TO SCALE

LEGEND:

	EXISTING PROPERTY LINE
	EXISTING ADJACENT PROPERTY LINE
	EXISTING SECTION LINE
	EXISTING EASEMENT
	EXISTING CHAINLINK FENCE LINE
	EXISTING FENCE LINE
	EXISTING GAURDRAIL
W	EXISTING WATER LINE
T	EXISTING UNDERGROUND TELEPHONE
FO	EXISTING FIBER OPTIC LINE
UG-E	EXISTING UNDERGROUND ELECTRIC
OH-W	EXISTING OVERHEAD LINES
SAN	EXISTING SANITARY SEWER LINE
CS	EXISTING COMBO SEWER LINE
ST	EXISTING STORM SEWER LINE
G	EXISTING GAS LINE
	SEC. COR., IRON ROD FD., MON. SET* *REBAR/CAP OR NAIL/WASHER STAMPED "CEC INC FIRM #0122"
	ELEC. LIGHT POLE, PULL BOX, POWER POLE, UTILITY POLE, GUY WIRE, ELEC. TRANSFORMER
	GAS VALVE, GAS METER, GAS LINE MARKER
	WATER MANHOLE, IRRIGATION CONTROL BOX, WATER TAP, WATER METER, FIRE HYDRANT, PIV VALVE, FIRE DEPT. CONNECTION, WATER VALVE
	ELECTRIC MANHOLE, TELEPHONE PEDESTAL, CABLE PEDESTAL, FIBER OPTIC PULL BOX
	BEEHIVE INLET, CURB INLET, RECESSED CURB INLET, DOWNSPOUT, SQUARE STORM INLET, CIRCULAR STORM INLET, DRAINAGE MANHOLE
	UNKNOWN MANHOLE, CLEANOUT, SANITARY MANHOLE, COMBINATION MANHOLE
	MAIL BOX, SIGN, AIR COND., ADA SYMBOL, BOLLARD
	PARKING METER, TRAFFIC POLE, TRAFFIC MANHOLE,
(M)	MEASURED

SCALE IN FEET
0 80' 160'

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REVISION RECORD

NO	DATE	DESCRIPTION

530 E. Ohio Street
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WILLIAMS ARCHITECTS, LTD
NORTH PUTNAM HIGH SCHOOL
8869 NORTH COUNTY ROAD 250 EAST
ROACHDALE INDIANA

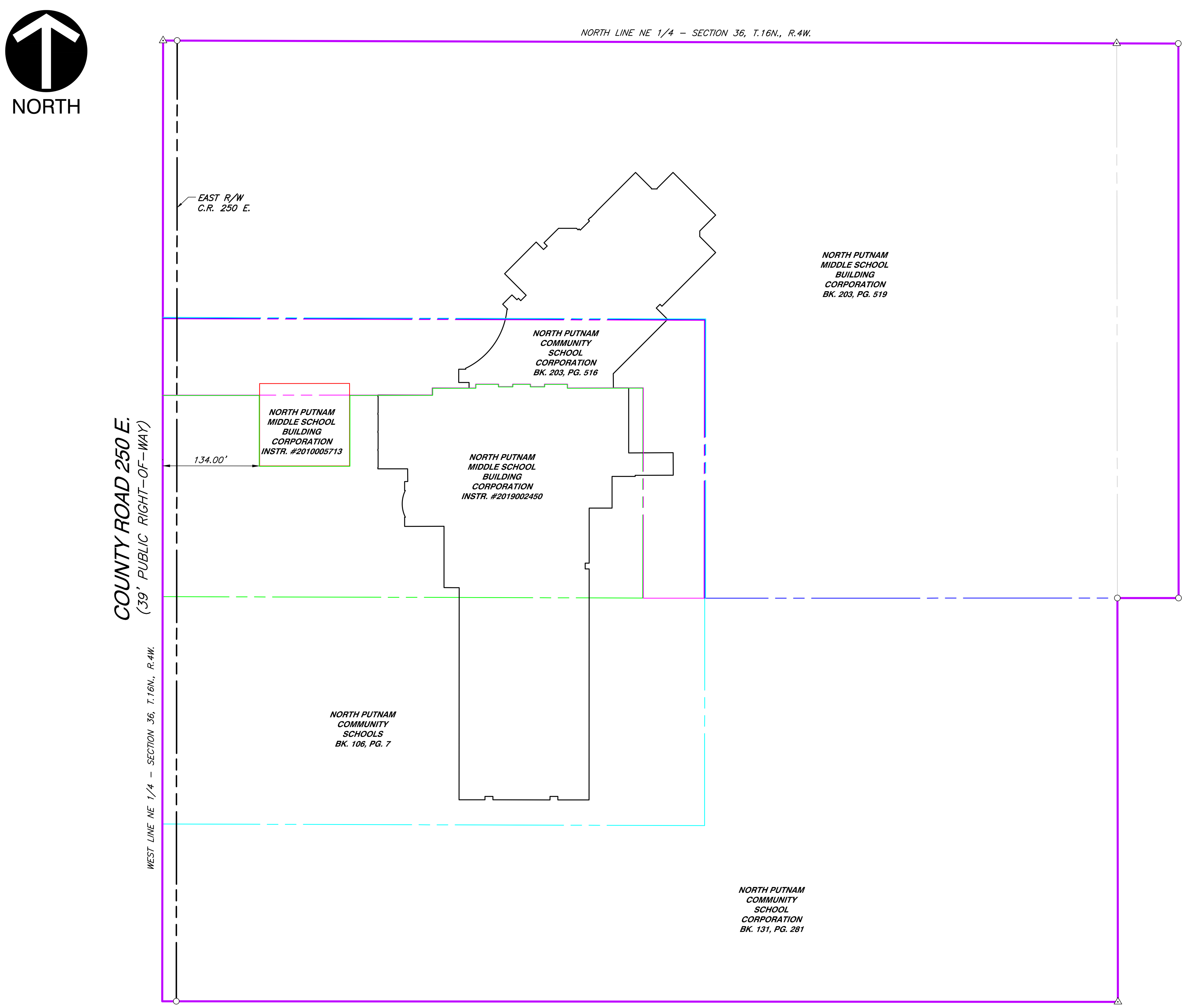
BOUNDARY RETRACEMENT SURVEY

DATE:	APRIL 16, 2024	DRAWN BY:	CJV
DWG SCALE:	1"=80'	CHECKED BY:	TJT
PROJECT NO:			337-620
APPROVED BY:			ABS

DRAWING NO.: BNDRY

SHEET 1 OF 2

P:\330-000\337-620\-Survey\Dwg\DWG BNDY TOPO\337620-SV01-BNDY TOPO.dwg\BNDY-1| LS\4/22/2024 – tthompson| – LP: 4/22/2024 9:26 AM



LEGAL DESCRIPTION (BOOK 203, PAGE 519)

PARCEL 1
Situated in the State of Indiana, County of Putnam and being a part of the Northeast quarter of Section 36, Township 16 North, Range 4 West of the Second Principal Meridian, more particularly described to–wit:

Beginning at a bolt marking the Northwest corner of the Northeast quarter of Section 36, Township 16 North, Range 4 West; thence South 89 degrees 45 minutes 25 seconds East 1404.49 feet with the North line of said Southeast quarter to a 5/8 inch rebar; thence South 00 degrees 03 minutes 21 seconds West 767.25 feet to a 5/8 inch rebar; thence North 89 degrees 56 minutes 38 seconds West 740.35 feet to a 5/8 inch rebar; thence North 00 degrees 03 minutes 22 seconds East 291.15 feet to a 5/8 inch rebar; thence with the outside face of the main wall of North Putnam School and the Easterly and Westerly extension thereof as it existed in July 1992 North 89 degrees 56 minutes 38 seconds West 104.81 feet; thence North 00 degrees 03 minutes 22 seconds East 5.31 feet; thence North 89 degrees 56 minutes 38 seconds West 32.03 feet; thence South 00 degrees 03 minutes 22 seconds West 3.52 feet; thence North 89 degrees 56 minutes 38 seconds West 19.12 feet; thence North 00 degrees 03 minutes 22 seconds East 3.52 feet; thence North 89 degrees 56 minutes 38 seconds West 24.87 feet; thence South 00 degrees 03 minutes 22 seconds West 3.52 feet; thence North 89 degrees 56 minutes 38 seconds West 19.25 feet; thence North 00 degrees 03 minutes 22 seconds East 3.52 feet; thence North 89 degrees 56 minutes 38 seconds West 31.94 feet; thence South 00 degrees 03 minutes 22 seconds West 5.41 feet; thence North 89 degrees 56 minutes 38 seconds West 59.84 feet; thence South 00 degrees 03 minutes 22 seconds West 9.78 feet; thence North 89 degrees 56 minutes 38 seconds West 372.92 feet to a pk nail on the West line of said quarter section; thence leaving the Westerly extension of the outside face of the aforesaid wall North 00 degrees 07 minutes 51 seconds East 490.57 feet with said West line to the point of beginning, containing 20.45 acres, more or less.

Except therefrom the following:

PARCEL 1 EXCEPTION (BOOK 203, PAGE 516)

Situate in the State of Indiana, County of Putnam and being a part of the Northwest quarter of the Northeast quarter of Section 36, Township 16 North, Range 4 West of the Second Principal Meridian, wore particularly described to–wit:

Commencing at the Northwest corner of the Northwest quarter of the Northeast quarter of Section 36, Township 16 North, Range 4 West; thence South 00 degrees 07 Minutes 51 seconds West 384.00 feet with the West line of said Northwest quarter quarter to the Northwest corner of a 12.05 acre tract and the true point of beginning of the real estate herein described; thence South 89 degrees 45 Minutes 25 seconds East 750.00 feet parallel with the North line of said Northwest quarter quarter to the Northeast corner of said 12.05 acre tract; thence South 00 degrees 07 Minutes 51 seconds West 385.39 feet; thence North 89 degrees 56 Minutes 39 seconds West 84.86 feet; thence North 00 degrees 03 Minutes 22 seconds East 291.15 feet; thence with the outside face of the main wall of the North Putnam School and the Easterly and Westerly extension thereof as it existed in July 1992 North 89 degrees 56 minutes 38 seconds West 104.81 feet; thence North 00 degrees 03 Minutes 22 seconds East 5.31 feet; thence North 89 degrees 56 Minutes 38 seconds West 32.03 feet; thence South 00 degrees 03 Minutes 22 seconds West 3.52 feet; thence North 89 degrees 56 Minutes 38 seconds West 19.12 feet; thence North 00 degrees 03 Minutes 22 seconds East 3.52 feet; thence North 89 degrees 56 Minutes 38 seconds West 24.87 feet; thence South 00 degrees 03 Minutes 22 seconds West 3.52 feet; thence North 89 degrees 56 Minutes 38 seconds West 19.25 feet; thence North 00 degrees 03 Minutes 22 seconds East 3.52 feet; thence North 89 degrees 56 Minutes 38 seconds West 31.94 feet; thence South 00 degrees 03 Minutes 22 seconds West 5.41 feet; thence North 89 degrees 56 Minutes 38 seconds West 59.84 feet; thence South 00 degrees 03 Minutes 22 seconds West 9.78 feet; thence North 89 degrees 56 Minutes 38 seconds West 372.92 feet to the West line of said Northwest quarter quarter; thence leaving the Westerly extension of the outside face of the aforesaid wall North 00 degrees 07 Minutes 51 seconds East 106.57 feet with said West line to the point of beginning, containing 2.28 acres, more or less.

LEGEND:

- PROJECT LINE
- BK. 203, PG. 519
- BK. 131, PG. 281
- BK. 106, PG. 7
- INSTR. #2019002450
- BK. 203, PG. 516
- INSTR. #2010005713

LEGAL DESCRIPTION (PART OF BOOK 131, PAGE 281)

... ALSO, commencing at the southwest corner of the north half of the northeast quarter of Section 36, Township 16 North, Range 4 West, and running north 80 rods; thence running east 80 rods; thence south 80 rods; thence due west 80 rods to the place of beginning, containing 40 acres,...

SURVEYOR'S REPORT

1. In accordance with Title 865, Article 1, Chapter 12 of the Indiana Administrative Code ("Rule 12"), the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established this survey as a result of uncertainties in reference monumentation; in record descriptions and plats; in lines of occupation; and as introduced by random errors in measurement ("Relative Positional Accuracy"). There may be unwritten rights associated with these uncertainties. The client should assume there is an amount of uncertainty along any line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

There may be differences of deed dimensions versus measured dimensions along the boundary lines shown hereon and, likewise, there may be found survey markers near, but not precisely at, some boundary corners. In cases where the magnitude of these differences are less than the Relative Positional Accuracy stated below and less than the uncertainty identified for the reference monumentation (discussed below), the differences may be considered insignificant and are shown only for purposes of mathematical closure. Such differences that are greater than the Relative Positional Accuracy and the uncertainty in reference monumentation should be considered worthy of notice and are therefore further discussed below.

This survey and report are based in part upon opinions formed in accordance with an Indiana Land Surveyor's responsibility to conduct a survey in accordance with "law or a precedent" (865 IAC 1–12–11(5), Rules of the Indiana State Board of Registration for Land Surveyors). Since Indiana has no statutes addressing how to resolve boundary lines, a solution based on principles derived from common law precedent must be relied upon as the basis for a boundary resolution.

Unless otherwise noted or depicted hereon, there is no evidence of occupation along the perimeter lines of the subject tract. All survey monuments set or found this survey are flush with existing grade unless otherwise noted.

The Relative Positional Accuracy (due to random errors in measurement) of this survey is within the specifications for a Urban Class Survey (0.07 feet plus 50 ppm) as defined in IAC 865.

This survey was commissioned by the client to perform a Boundary Retracement Survey with topography of the real estate conveyed to the North Putnam Middle School Building Corporation in Book 203, page 519, and part of the real estate conveyed to the North Putnam Community School Corporation in Book 131, page 281 as recorded in the Office of the Recorder of Putnam County, Indiana. Said real estate is located in the North Half of the Northeast Quarter of Section 36, Township 16 North, Range 4 West of the Second Principal Meridian, Franklin Township of Putnam County, Indiana. The intent of this boundary survey is to encompass the limits of the topographic survey for this project.

Reference Surveys and Plats

1) Boundary Survey of the Walnut Ridge Estates by Holloway and Associates in File Number 278–95R, dated January 8, 1996. This is a survey of the south adjoining lands.

2) Boundary Survey by Alan Stanley and Associates Inc. as recorded in Book 94, page 134. This is a survey of the parcel described in said Book 203, page 519. This survey depicts the 39 foot right–of–way for County Road 250 E.

3) Putnam County Section corner tie sheets prepared by The Schneider Corporation.

Reference Monuments

1) A Harrison monument was found marking the Southwest corner of the Southeast Quarter of said Section 36 per said tie sheets. It was held as controlling.

2) A stone was found marking the Southeast corner of the Northeast Quarter of the Northeast Quarter of said Section 36 per said Walnut Ridge Estates Survey. It was held as controlling.

3) A 6" wood post was found marking the Northeast corner of the Northeast Quarter of said Section 36 per said Alan Stanley Survey. It was held as controlling.

4) Several original Holloway monuments were found marking the corners of said Walnut Ridge Estates Survey. They were held as controlling.

5) No monuments were found marking the Southwest corner of the Northeast Quarter, the Southwest corner of the Northwest Quarter of the Northeast Quarter, or the Northwest corner of the Northeast Quarter of said Section 36. These corners were established using said Walnut Ridge Estates monumentation, and survey geometry.

6) No monuments were found marking the Southeast or the Northeast corners of the Northwest Quarter of the Northeast Quarter of said Section 36. These corners were established at mid–distance.

Record Descriptions

The lines and corners of the subject tract were located hereon based on controlling calls contained in the record description or the record plat for the subject tract. Unless noted otherwise, the boundary lines of the subject tract are contiguous with the boundary lines of all adjoining parcels, adjoining streets, highways, rights–of–ways and easements, public or private along their common boundaries as described in their most recent respective legal descriptions of record.

1) There are several interior parcels within the Surveyed Lands. Their respective lines are shown for reference only.

2) The interior parcel as described in Instrument Number 2010005713 says it is for a School Gymnasium, and the Putnam County GIS shows this parcel within the school building. Its description lacks controlling calls, and calls 134.00 feet east of the West line of the Northeast Quarter of said Section 36. This places the parcel outside of the building as depicted hereon.

3) Said Book 203, page 519 geometry was held with the established Section lines. This fit with faces of the school building and the local monuments depicted hereon.

Evidence of Occupation

1) A farm fence lies between 1.3' North and 1.6' South of the South line of the Subject Parcel.

As a result of the above observations it is in my opinion that the uncertainties in the location of the lines and corners established on this survey are as follows:

Due to variances in Reference Monuments: Up to 0.1 feet
Due to discrepancies in the Record Descriptions: None
Due to inconsistencies in Lines of Occupation: Up to 1.6 North/South feet based on fence locations.

The horizontal data shown on this survey are based upon a positional solution derived from Global Positioning System (GPS) observations processed by National Geodetic Survey (NGS) utilizing their Online Positioning User Service (OPUS) software. The coordinate values shown are in the Indiana State Plane Coordinate System (West Zone) reference to the 1983 North American Datum utilizing the Continuously Operating Reference Stations (CORS) adjustment as determined by NGS (NAD 83 (2011)(EPOCH 2010.0000) with a reported overall root mean square (RMS) of 0.018 meters.

2. Ownership information indicated hereon is as identified in County or Township records or on title work provided by others.

3. The subject parcel is zoned IS Institutional per the Comprehensive Zoning Maps for the Putnam County, Indiana. The setback requirements for said zoning can be variable, transitional and subject to legal interpretation, therefore, setback lines are not depicted hereon.

4. Some of the items disclosed in the title search provided by Indiana Search Technologies, LLC, dated April 3, 2024 may have been depicted on the survey and are identified by their recording data. Should any additional items need to be depicted on the survey please advise and provide the appropriate documents.

Certificate of Survey

To the best of my knowledge and belief the within plat also represents a survey made under my supervision in accordance with Title 865, Article 1, Chapter 12 of the Indiana Administrative Code. The field work for this survey was completed on April 4, 2024.

Tyler J. Thompson
Registered Land Surveyor No. LS21400006
April 16, 2024
tthompson@cecinc.com
prepared by Tyler J. Thompson

TYLER J. THOMPSON REGISTERED No. 21400006 STATE OF INDIANA LAND SURVEYOR

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law. Tyler J. Thompson

REVISION RECORD

NO	DATE	DESCRIPTION

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530 E. Ohio Street
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www.cecinc.com

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NORTH PUTNAM HIGH SCHOOL
8869 NORTH COUNTY ROAD 250 EAST
ROACHDALE INDIANA

BOUNDARY RETRACEMENT SURVEY

DATE: APRIL 16, 2024 | DRAWN BY: CJV
DWG SCALE: | CHECKED BY: TJT
PROJECT NO: 337-620
APPROVED BY: ABS

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DRAWING NO.: BNDRY
SHEET NO OF NO

P:\330–000\337–620\–Survey\Dwg\SV01 BNDY TOPO\337620–SV01–BNDY TOPO.dwg{BNDY–2} LS:(4/22/2024 – tthompson) – LP: 4/22/2024 9:26 AM

NORTH

LEGEND:

EXISTING PROPERTY LINE	TBM
870 EXISTING INDEX CONTOUR	ELEC. LIGHT POLE, PULL BOX, POWER POLE, UTILITY POLE, GUY WIRE, ELEC. TRANSFORMER
871 EXISTING INTERMEDIATE CONTOUR	GAS VALVE, GAS METER, GAS LINE MARKER
EXISTING CHAINLINK FENCE LINE	WATER MANHOLE, IRRIGATION CONTROL BOX, WATER TAP, WATER METER, FIRE HYDRANT, PIV VALVE, FIRE DEPT. CONNECTION, WATER VALVE
EXISTING FENCE LINE	ELECTRIC MANHOLE, TELEPHONE PEDESTAL, CABLE PEDESTAL, FIBER OPTIC PULL BOX
EXISTING GAURDRAIL	BEEHIVE INLET, CURB INLET, RECESSED CURB INLET, DOWNSPOUT, SQUARE STORM INLET, CIRCULAR STORM INLET, DRAINAGE MANHOLE
W EXISTING WATER LINE	UNKNOWN MANHOLE, CLEANOUT, SANITARY MANHOLE, COMBINATION MANHOLE
T EXISTING UNDERGROUND TELEPHONE	MAIL BOX, SIGN, AIR COND., ADA SYMBOL, BOLLARD
FO EXISTING FIBER OPTIC LINE	PARKING METER, TRAFFIC POLE, TRAFFIC MANHOLE,
UG-E EXISTING UNDERGROUND ELECTRIC	DECIDUOUS TREE, CONIFEROUS TREE, BUSH
OH-W EXISTING OVERHEAD LINES	× 1082.40 EXISTING SPOT ELEVATION
SAN EXISTING SANITARY SEWER LINE	
CS EXISTING COMBO SEWER LINE	
ST EXISTING STORM SEWER LINE	
G EXISTING GAS LINE	
EXISTING TREE LINE	

Survey Certification

I, the undersigned, hereby certify that to the best of my professional knowledge and belief the within plat represents a topographic survey of the real estate shown or described hereon. The nature, size and location of utilities shown on this plat are per plans and/or locations provided by the respective utility companies or their representatives together with field observation as further noted hereon. The topographic data was gathered using standard radial surveying techniques with an electronic total station and data collector and/or using a Global Positioning System (GPS). Contours are plotted based upon interpolation of spot elevations shown hereon and are accurate to generally within one half contour interval.

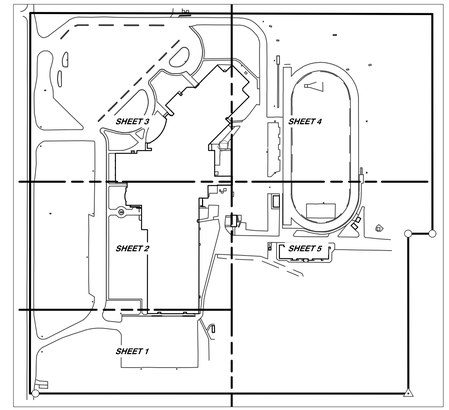
The field work for this survey was performed on April 4 2024.

The user of this topographic survey is cautioned to consider that all natural surfaces are subject to vertical movement due to the effects of environmental and mechanical factors on soil properties. The spot elevations and the interpolated contour lines depicted hereon are representative of the surface of the site on the date(s) the field survey was performed. Changes in surface elevations varying up to 0.5 feet after the date of the survey may be possible without any obvious visible indications. Therefore, it is recommended that the surface elevations of this site be verified prior to construction and that any significant discrepancies be reported to the engineer for evaluation. The surveyor is not responsible for estimating or accounting for any vertical variances caused by such environmental or mechanical influences.

Tyler J. Thompson
Registered Land Surveyor No. LS21400006
April 16, 2024
tthompson@cecinc.com
prepared by Tyler J. Thompson

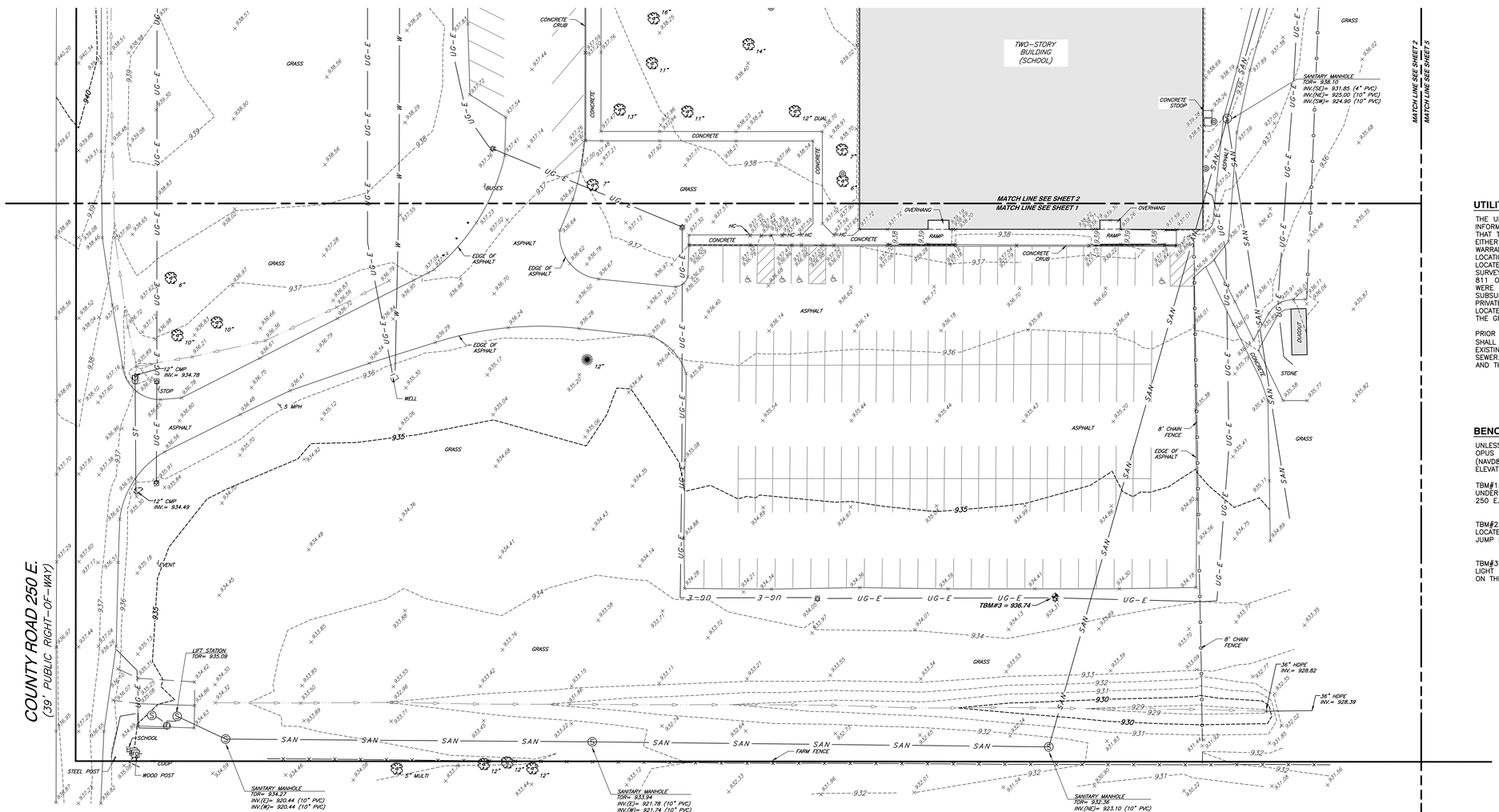
I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law. Tyler J. Thompson

TYLER J. THOMPSON REGISTERED No. 21400006 STATE OF INDIANA LAND SURVEYOR



SHEET MAP
NOT TO SCALE

VICINITY MAP
NOT TO SCALE



SCALE IN FEET
0 30' 60'

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2403221896 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88 (GEOID 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: MAG NAIL ON TOP OF THE SOUTH END OF A 15" RCP CULVERT PIPE UNDER THE NORTHERN MOST ENTRANCE TO THE SITE FROM COUNTRY ROAD 250 E.
ELEV. = 935.07

TBM#2: MAG NAIL ON TOP OF THE WEST SIDE OF A LIGHT POLE BASE LOCATED APPROXIMATELY 10 FEET WEST OF THE NORTH END OF THE LONG JUMP EVENT.
ELEV. = 934.57

TBM#3: MAG NAIL ON TOP OF THE NORTH SIDE OF THE EASTERN MOST LIGHT POLE BASE ON THE SOUTH END OF THE SOUTHERN MOST PARKING LOT ON THE SITE.
ELEV. = 936.74

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WILLIAMS ARCHITECTS, LTD
NORTH PUTNAM HIGH SCHOOL
8869 NORTH COUNTY ROAD 250 EAST
ROACHDALE INDIANA

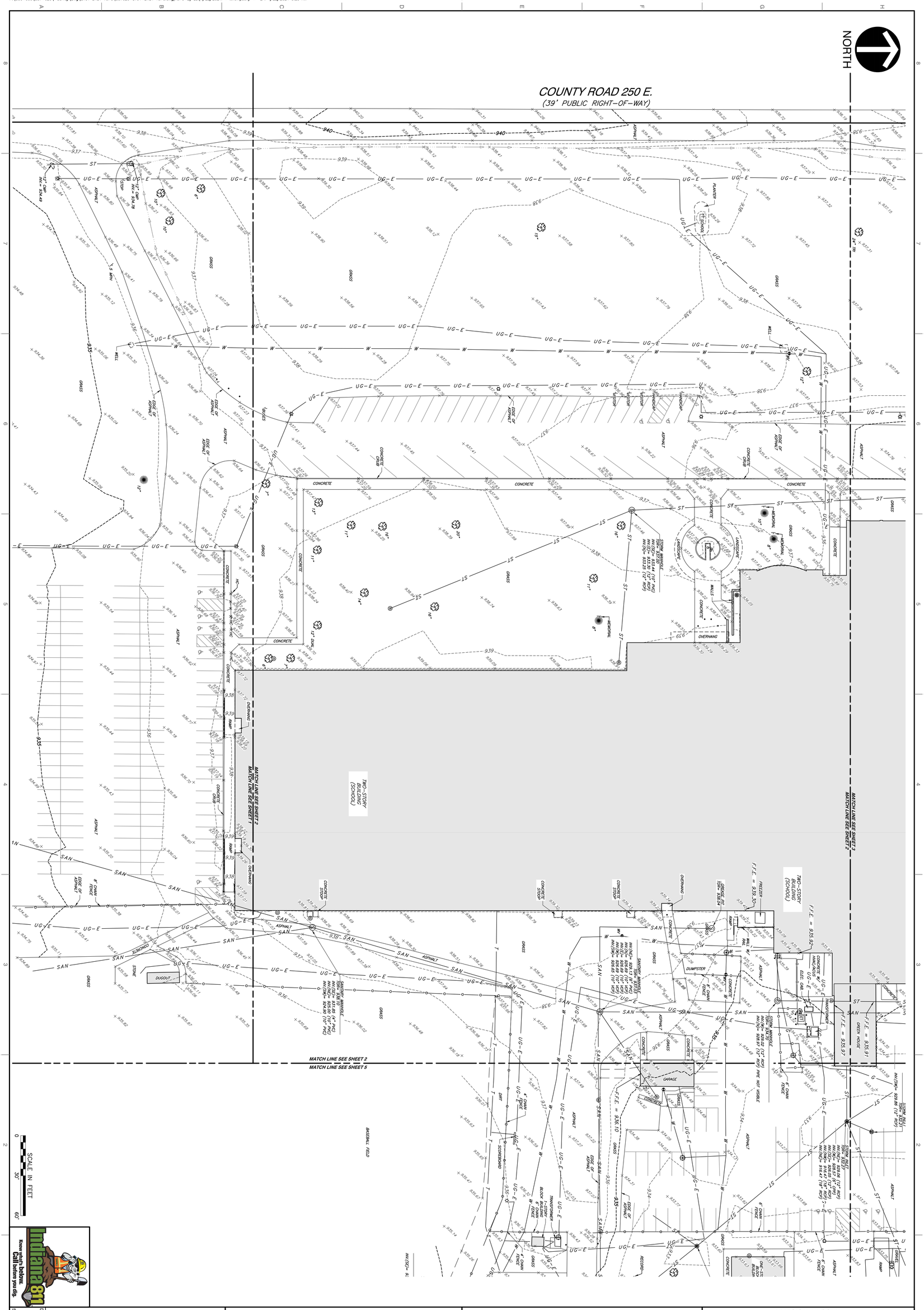
TOPOGRAPHIC SURVEY

DATE: APRIL 16, 2024	DRAWN BY: CJV
DWG SCALE: 1"=30'	CHECKED BY: TJT
PROJECT NO:	337-620
APPROVED BY:	ABS

DRAWING NO.: TOPO
SHEET 1 OF 5

P:\337-620\337-620\-Survey\Dwg\SHEET BNDY TOPO\337620-SHEET-BNDY TOPO.dwg\TOPO-1 | LS/16/22/2024 - tthompson | LP: 4/22/2024 9:24 AM

P:\330-000\337-620\-Survey\Dwg\SV01 BNDY TOPO\337620-SV01-BNDY TOPO.dwg[TOPO-2] LS:(4/22/2024 - tthompson) - LP: 4/22/2024 9:25 AM



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DRAWING NO.: TOPO

SHEET 2 OF 5

TOPOGRAPHIC SURVEY

DATE:	APRIL 16, 2024	DRAWN BY:	CJV
DWG SCALE:	1"=30'	CHECKED BY:	TJT
PROJECT NO:			337-620
APPROVED BY:			ABS

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REVISION RECORD

NO	DATE	DESCRIPTION

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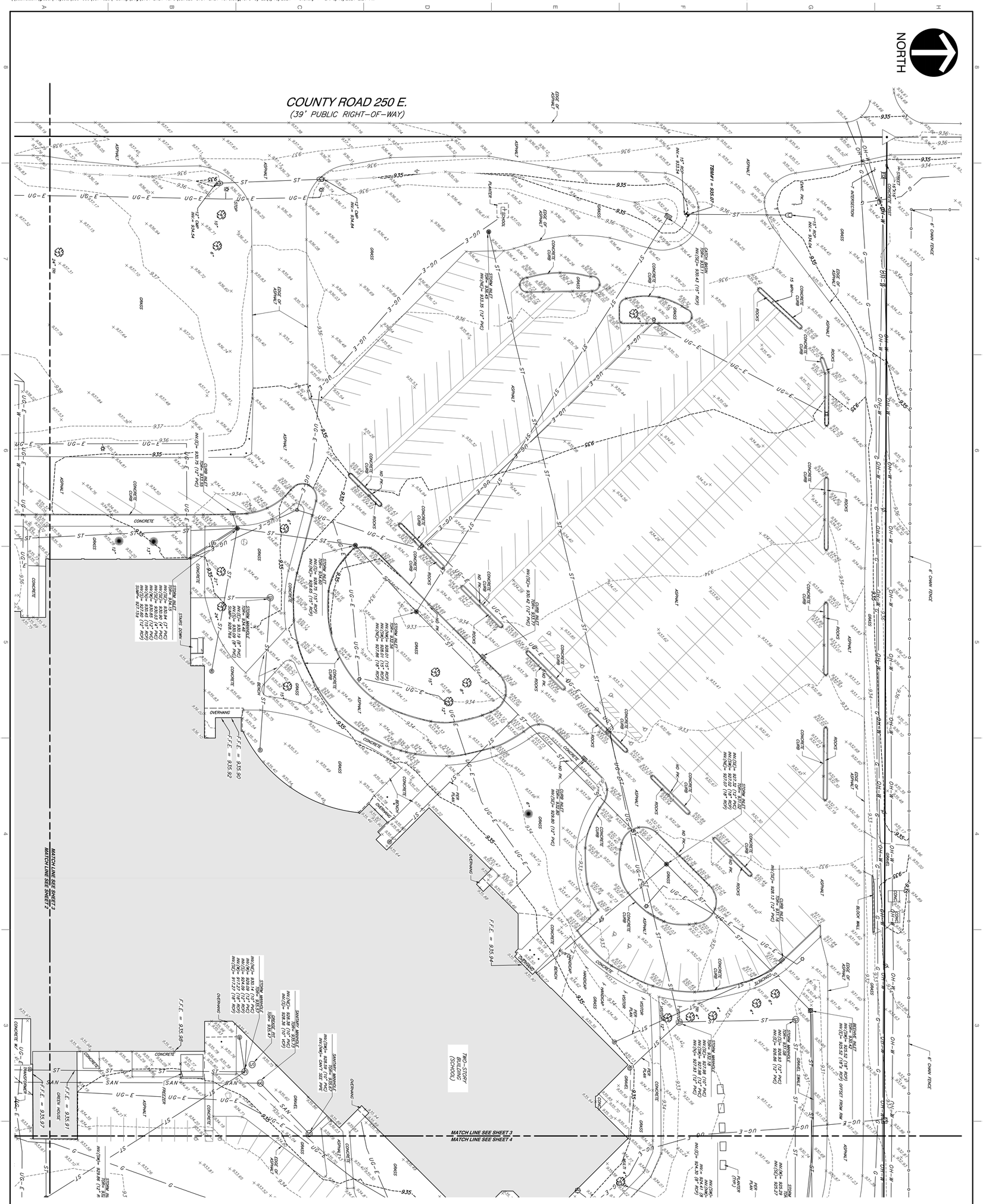

SCALE IN FEET
0 30' 60'

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DRAWING NO.: TOPO
SHEET 3 OF 5

TOPOGRAPHIC SURVEY

DATE:	APRIL 16, 2024	DRAWN BY:	CJV
DWG SCALE:	1"=30'	CHECKED BY:	TJT
PROJECT NO:			337-620
APPROVED BY:			ABS

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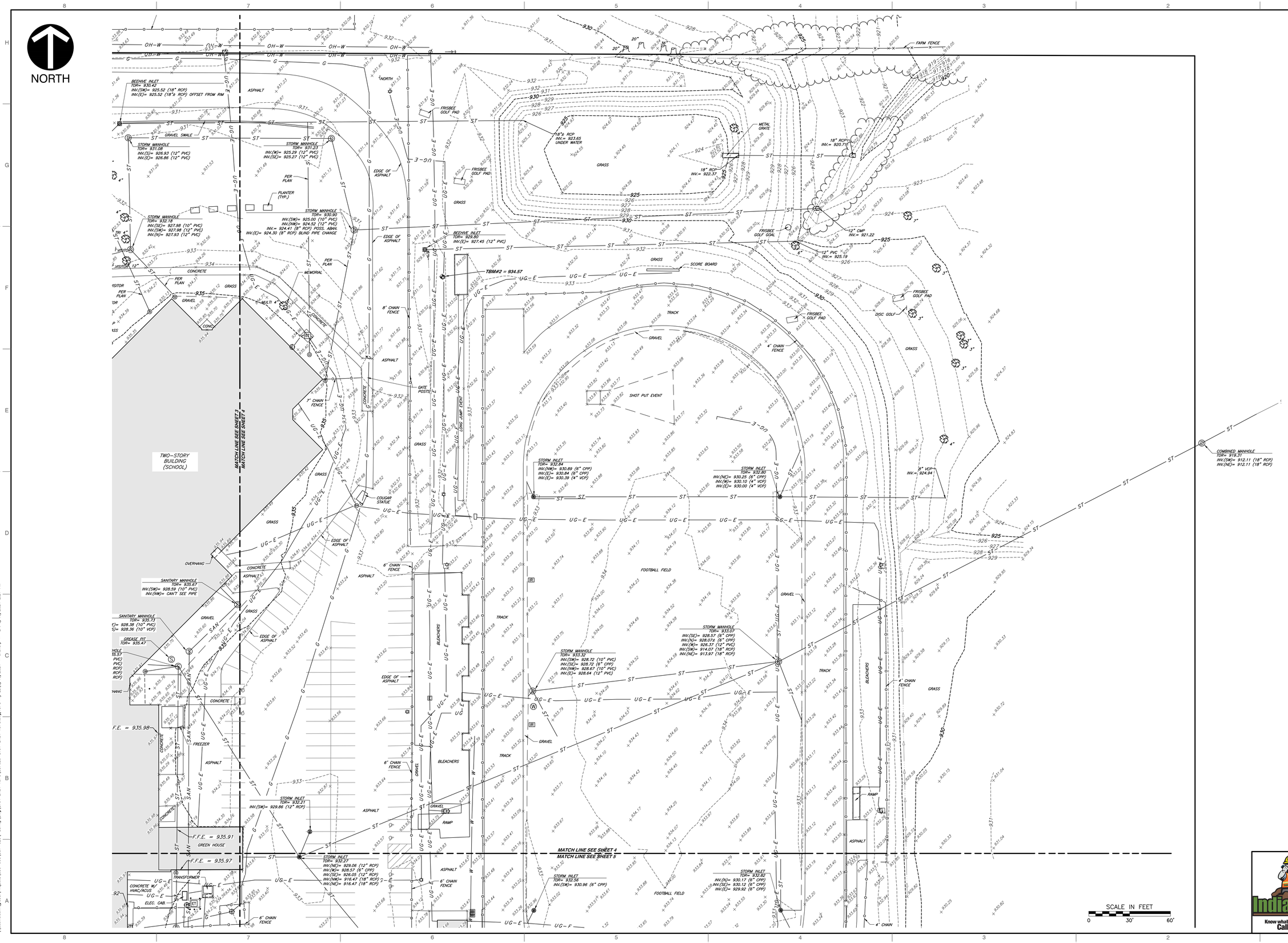
NO	DATE	DESCRIPTION



REVISION RECORD		
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TOPOGRAPHIC SURVEY

DATE:	APRIL 16, 2024	DRAWN BY:	CJV
DWG SCALE:	1"=30'	CHECKED BY:	TJT
PROJECT NO:			337-620
APPROVED BY:			ABS

DRAWING NO.: **TOPO**

SHEET 4 OF 5

Indiana 811 Know what's below. Call before you dig.

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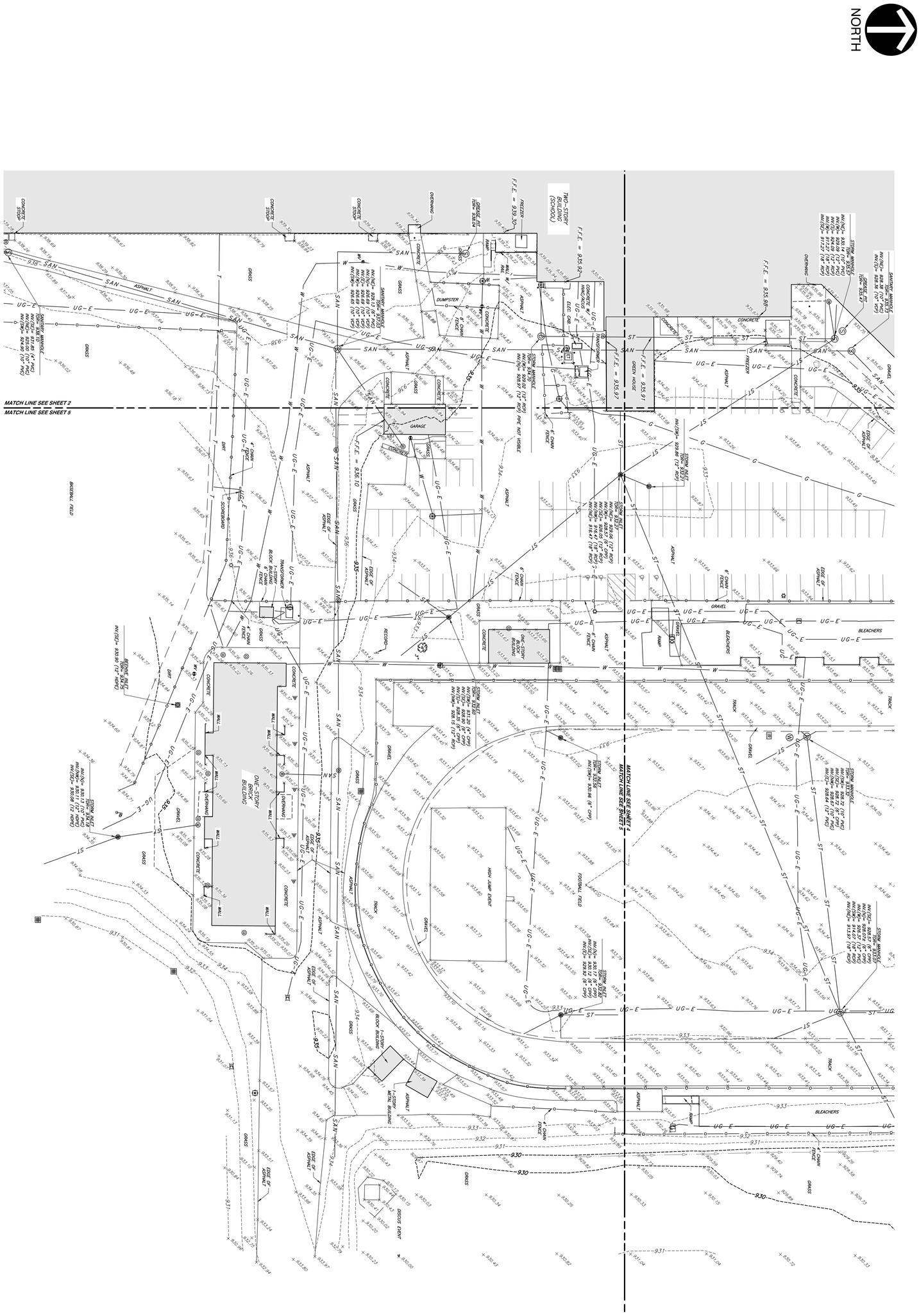
P:\330-000\337-620\-Survey\Dwg\SV01 BNDY TOPO\337620-SV01-BNDY TOPO.dwg[TOPO-5] LS:(4/22/2024 - tthompson) - LP: 4/22/2024 9:25 AM



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Know what's below. Call before you dig.

DRAWING NO.: TOPO	TOPOGRAPHIC SURVEY		
SHEET 5 OF 5	DATE: APRIL 16, 2024	DRAWN BY:	CJV
	DWG SCALE: 1"=30'	CHECKED BY:	TJT
	PROJECT NO:		337-620
	APPROVED BY:		ABS

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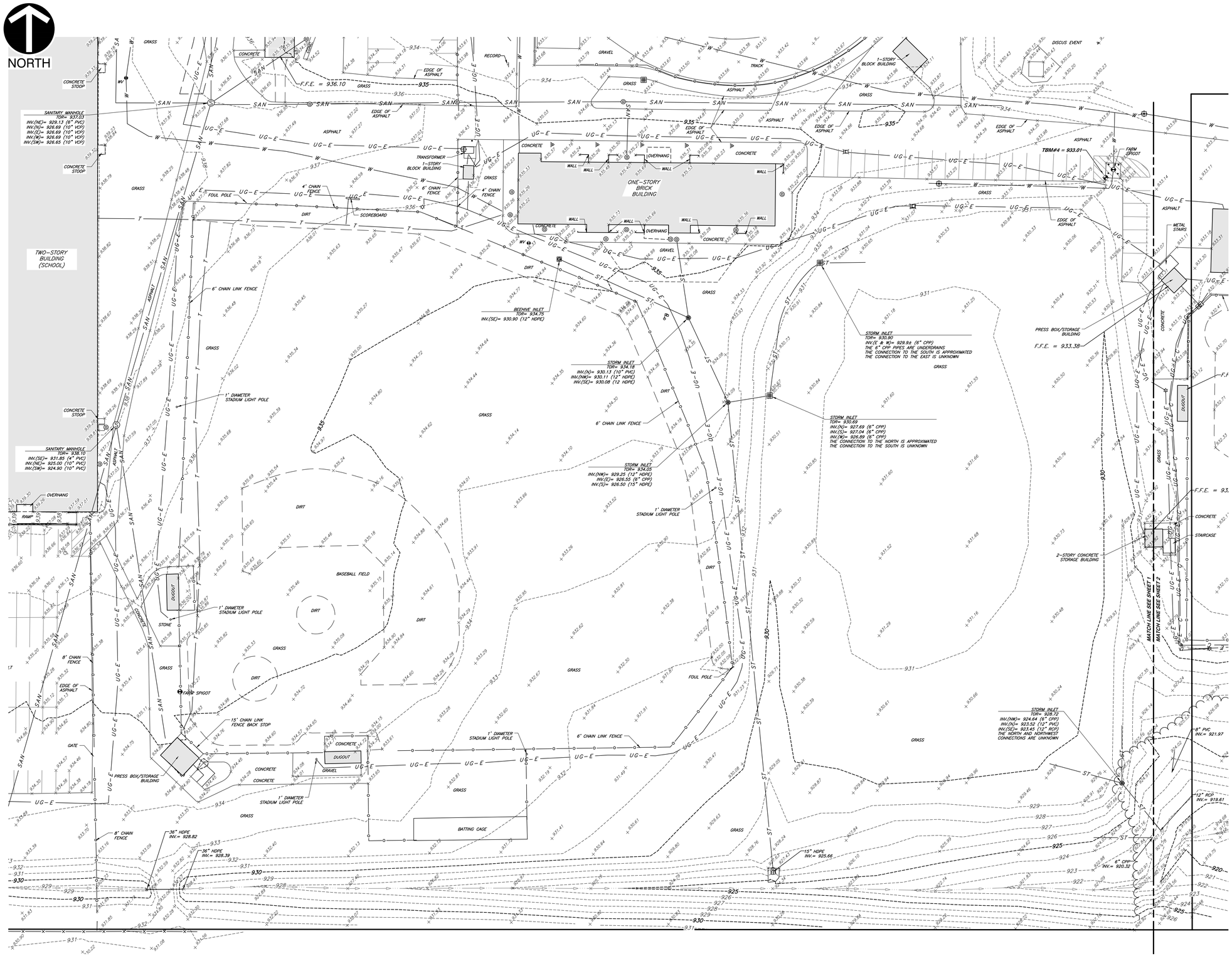

VICINITY MAP
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8869 NORTH COUNTY ROAD 250 EAST
ROACHDALE INDIANA

TOPOGRAPHIC SURVEY

DATE:	DECEMBER 6, 2024
DWG SCALE:	1"=30'
PROJECT NO:	337-620
APPROVED BY:	ABS
DRAWN BY:	NRB
CHECKED BY:	TJT

Indiana 811
Know what's below. Call before you dig.

DRAWING NO.: TOPO

SHEET 1 OF 2

P:\330-000\337-620\-Survey\Dwg\SV02 TOPO with Athletic Fields\337620-SV02-BNDY TOPO.dwg\[1] LS(12/12/2024 - rbaker) - LP: 12/13/2024 3:53 PM

NORTH

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2411152931 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88 (GEOID 18)). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: MAG NAIL ON TOP OF THE SOUTH END OF A 15" RCP CULVERT PIPE UNDER THE NORTHERN MOST ENTRANCE TO THE SITE FROM COUNTRY ROAD 250 E.

ELEV. = 935.07

TBM#2: MAG NAIL ON TOP OF THE WEST SIDE OF A LIGHT POLE BASE LOCATED APPROXIMATELY 10 FEET WEST OF THE NORTH END OF THE LONG JUMP EVENT.

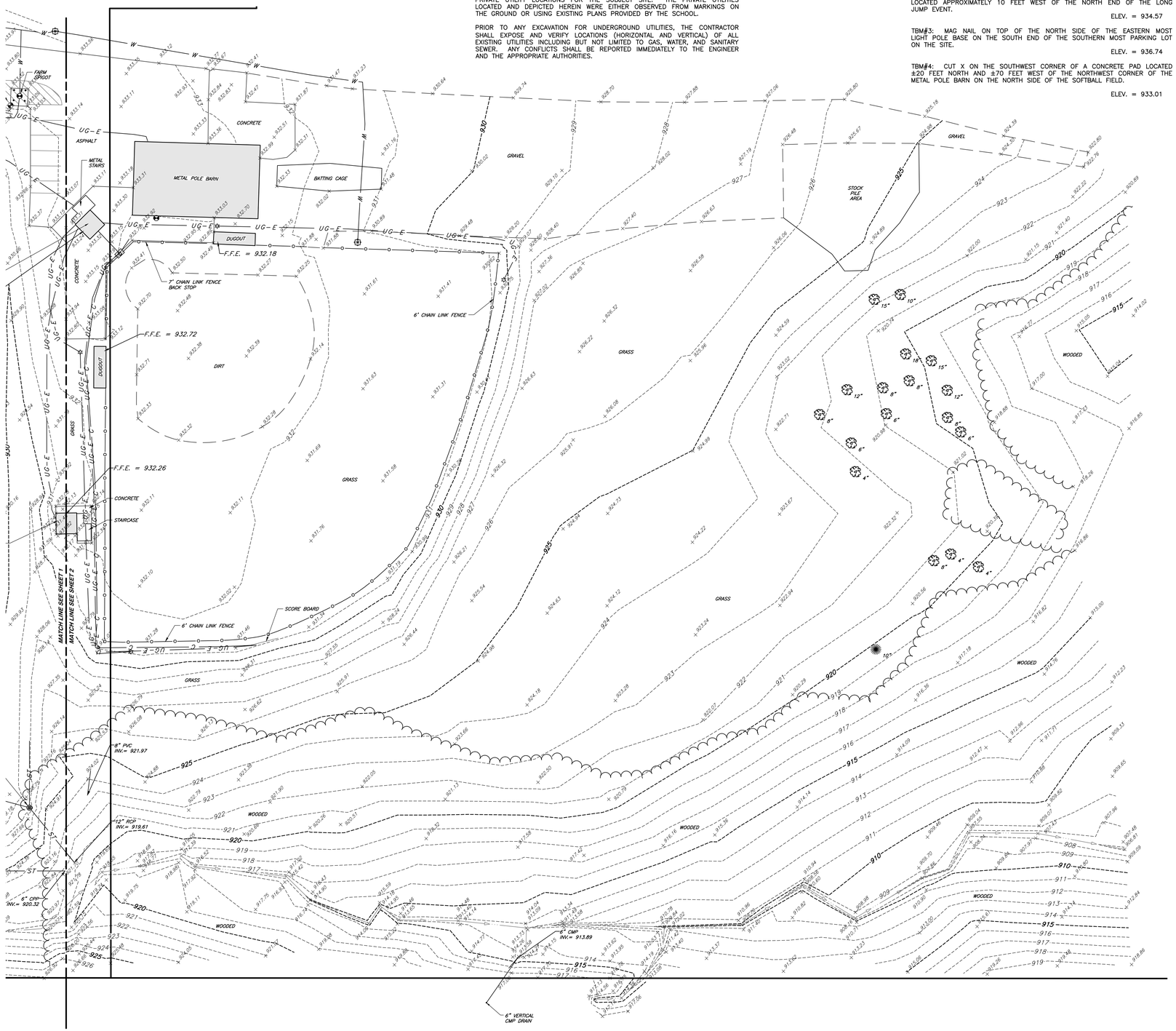
ELEV. = 934.57

TBM#3: MAG NAIL ON TOP OF THE NORTH SIDE OF THE EASTERN MOST LIGHT POLE BASE ON THE SOUTH END OF THE SOUTHERN MOST PARKING LOT ON THE SITE.

ELEV. = 936.74

TBM#4: CUT X ON THE SOUTHWEST CORNER OF A CONCRETE PAD LOCATED ±20 FEET NORTH AND ±70 FEET WEST OF THE NORTHWEST CORNER OF THE METAL POLE BARN ON THE NORTH SIDE OF THE SOFTBALL FIELD.

ELEV. = 933.01



Survey Certification

I, the undersigned, hereby certify that to the best of my professional knowledge and belief the within plat represents a topographic survey of the real estate shown or described hereon. The nature, size and location of utilities shown on this plat are per plans and/or locations provided by the respective utility companies or their representatives together with field observation as further noted hereon. The topographic data was gathered using standard radial surveying techniques with an electronic total station and data collector and/or using a Global Positioning System (GPS). Contours are plotted based upon interpolation of spot elevations shown hereon and are accurate to generally within one half contour interval.

The field work for this survey was performed on December 2, 2024.

The user of this topographic survey is cautioned to consider that all natural surfaces are subject to vertical movement due to the effects of environmental and mechanical factors on soil properties. The spot elevations and the interpolated contour lines depicted hereon are representative of the surface of the site on the date(s) the field survey was performed. Changes in surface elevations varying up to 0.5 feet after the date of the survey may be possible without any obvious visible indications. Therefore, it is recommended that the surface elevations of this site be verified prior to construction and that any significant discrepancies be reported to the engineer for evaluation. The surveyor is not responsible for estimating or accounting for any vertical variances caused by such environmental or mechanical influences.

Tyler J. Thompson
Registered Land Surveyor No. LS21400006
December 6, 2024
tthompson@cecinc.com
prepared by Tyler J. Thompson

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law. Tyler J. Thompson

TYLER J. THOMPSON REGISTERED No. 21400006 STATE OF INDIANA LAND SURVEYOR

LEGEND:

- EXISTING PROPERTY LINE
- 870 — EXISTING INDEX CONTOUR
- 871 — EXISTING INTERMEDIATE CONTOUR
- EXISTING CHAINLINK FENCE LINE
- EXISTING FENCE LINE
- EXISTING GAURDRAIL
- W — EXISTING WATER LINE
- T — EXISTING UNDERGROUND TELEPHONE
- FO — EXISTING FIBER OPTIC LINE
- UG-E — EXISTING UNDERGROUND ELECTRIC
- OH-W — EXISTING OVERHEAD LINES
- SAN — EXISTING SANITARY SEWER LINE
- CS — EXISTING COMBO SEWER LINE
- ST — EXISTING STORM SEWER LINE
- G — EXISTING GAS LINE
- EXISTING TREE LINE
- TBM
- ET — ELEC. LIGHT POLE, PULL BOX, POWER POLE, UTILITY POLE, GUY WIRE, ELEC. TRANSFORMER
- GAS VALVE, GAS METER, GAS LINE MARKER
- WATER MANHOLE, IRRIGATION CONTROL BOX, WATER TAP, WATER METER, FIRE HYDRANT, PIV VALVE, FIRE DEPT. CONNECTION, WATER VALVE
- ELECTRIC MANHOLE, TELEPHONE PEDESTAL, CABLE PEDESTAL, FIBER OPTIC PULL BOX
- BEEHIVE INLET, CURB INLET, RECESSED CURB INLET, DOWNSPOUT, SQUARE STORM INLET, CIRCULAR STORM INLET, DRAINAGE MANHOLE
- UNKNOWN MANHOLE, CLEANOUT, SANITARY MANHOLE, COMBINATION MANHOLE
- MAIL BOX, SIGN, AIR COND., ADA SYMBOL, BOLLARD
- PARKING METER, TRAFFIC POLE, TRAFFIC MANHOLE
- DECIDUOUS TREE, CONIFEROUS TREE, BUSH
- × 1082.40 — EXISTING SPOT ELEVATION

SCALE IN FEET
0 30' 60'

Indiana 811 — Know what's below. Call before you dig.

REVISION RECORD

NO	DATE	DESCRIPTION

530 E. Ohio Street
Suite G
Indianapolis, IN 46204
Ph: 317.655.7777
www.cecinc.com

Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS, LTD
NORTH PUTNAM HIGH SCHOOL
8869 NORTH COUNTY ROAD 250 EAST
ROACHDALE INDIANA

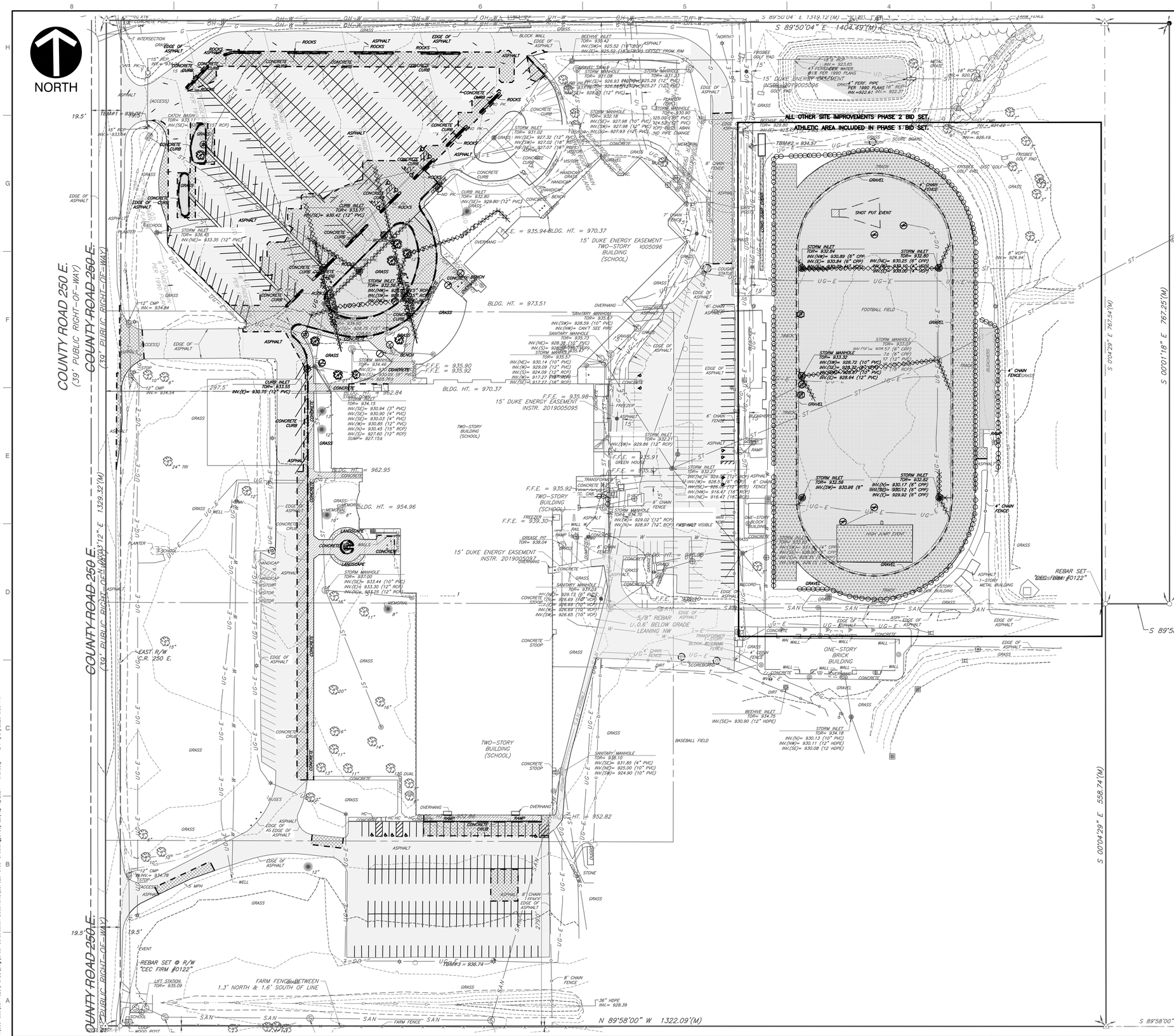
TOPOGRAPHIC SURVEY

DATE:	DECEMBER 6, 2024
DRAWN BY:	NRB
DWG SCALE:	1"=30'
CHECKED BY:	TJT
PROJECT NO:	337-620
APPROVED BY:	ABS

DRAWING NO.: TOPO

SHEET 2 OF 2

P:\337-620\337-620\~Survey\Dwg\SV02 TOPO with Athletic Fields\337620-SV02-BNDY TOPO.dwg[2] LS(12/12/2024 - ndeaney) - LP: 12/13/2024 3:53 PM



DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL SURFACE TO BE REMOVED
- ATHLETIC SURFACE TO BE REMOVED
- LANDSCAPING TO BE REMOVED
- MILL
- EXISTING BLEACHERS TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE PROTECTED

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
Nº PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

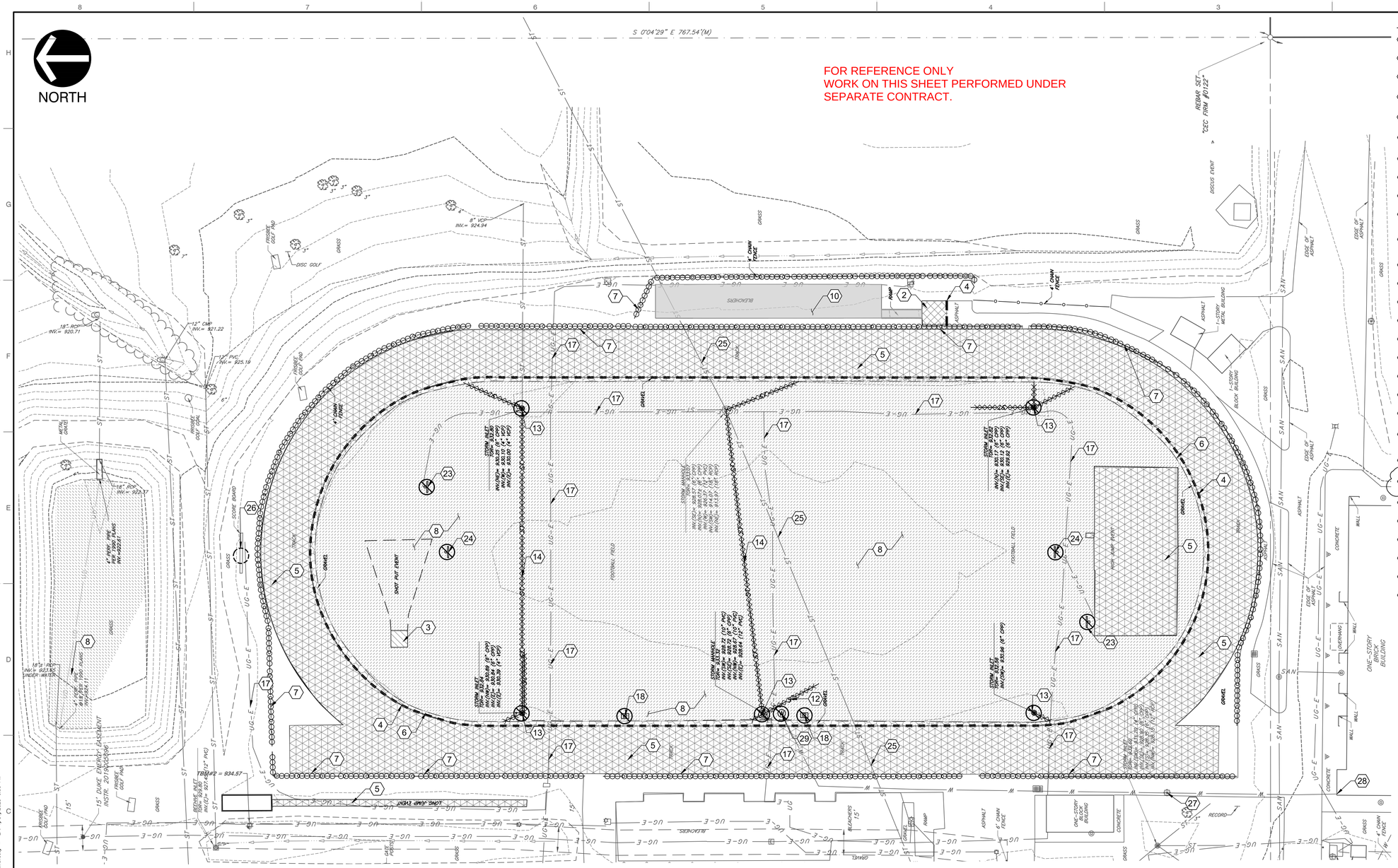
CEC
Civil & Environmental Consultants, Inc.
11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

OVERALL SITE DEMOLITION PLAN

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.:
C100



DEMOLITION ITEMS:

1. REMOVE CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.
2. EXISTING ASPHALT & BASE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3. EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
4. FULL DEPTH SAWCUT.
5. EXISTING ATHLETIC SURFACE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
6. EXISTING GRAVEL TO BE REMOVED COMPLETE; MUST MEET GEOTECHNICAL REQUIREMENTS FOR REUSE AS BACKFILL ONSITE, OTHERWISE DISPOSE OF OFF SITE.
7. EXISTING FENCE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
8. EXISTING LANDSCAPING TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE
9. ~~REMOVE EXISTING TREE COMPLETE; DISPOSE OF OFF SITE.~~
10. EXISTING BLEACHERS AND RAMP TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
11. ~~EXISTING ASPHALT TO BE MILLED & RESURFACED AT THE END OF PHASE 1 TO ACCOMMODATE PARKING REQUIREMENTS FOR THE PHASE 1 STRUCTURES. REFER TO "L" SERIES PLANS FOR NEW STRIPING LAYOUT.~~
12. REMOVE EXISTING UNDERDRAIN PIPE AND DISPOSE OF OFF SITE. AS REQUIRED FOR PROPOSED TURF FIELD UNDERDRAIN SYSTEM.
13. REMOVE EXISTING STORM STRUCTURE COMPLETE; DISPOSE OF OFF SITE.
14. REMOVE EXISTING STORM PIPE AND DISPOSE OF OFF SITE.
15. ~~SALVAGE EXISTING LIGHT/POWER POLE OR GUY WIRE & REMOVE CONCRETE BASE COMPLETE.~~
16. ~~REMOVE EXISTING UNDERGROUND ELECTRIC. REFEED LIGHT/POWER POLES TO REMAIN PER ELECTRIC PLANS.~~
17. PROTECT AND MAINTAIN EXISTING UNDERGROUND ELECTRIC.
18. REMOVE EXISTING UNDERGROUND IRRIGATION SYSTEM; CONTRACTOR TO REMOVE IRRIGATION HEADS AND RETURN TO OWNER.
19. ~~SALVAGE EXISTING SIGN FOR REUSSE. REMOVE EXISTING POST AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.~~
20. ~~REMOVE EXISTING SIGN, POST AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.~~
21. ~~EXISTING CONCRETE BOLLARD TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.~~
22. ~~SALVAGE EXISTING BENCH FOR REUSE. REMOVE CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.~~
23. ~~REMOVE EXISTING POSTS AND CONCRETE BASE COMPLETE; SALVAGE OUTLET/EQUIPMENT AND RETURN TO OWNER~~
24. REMOVE EXISTING FIELD GOAL POSTS AND CONCRETE BASE COMPLETE DISPOSE OF OFF SITE.
25. PROTECT AND MAINTAIN EXISTING STORM SEWERS.
26. PROTECT EXISTING SCOREBOARD.
27. TURN OFF EXISTING WATER VALVE.
28. CLOSE WATER SERVICE TO FIELD.
29. REMOVE EXISTING WATER STRUCTURE AND CAP EXISTING WATER SERVICE LINE.

DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL SURFACE TO BE REMOVED
- ATHLETIC SURFACE TO BE REMOVED
- LANDSCAPING TO BE REMOVED
- MILL
- EXISTING BLEACHERS TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE PROTECTED

UTILITY NOTE:

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REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

SCALE IN FEET
0 30 60

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION
1		ADDENDUM #1

Civil & Environmental Consultants, Inc.
11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

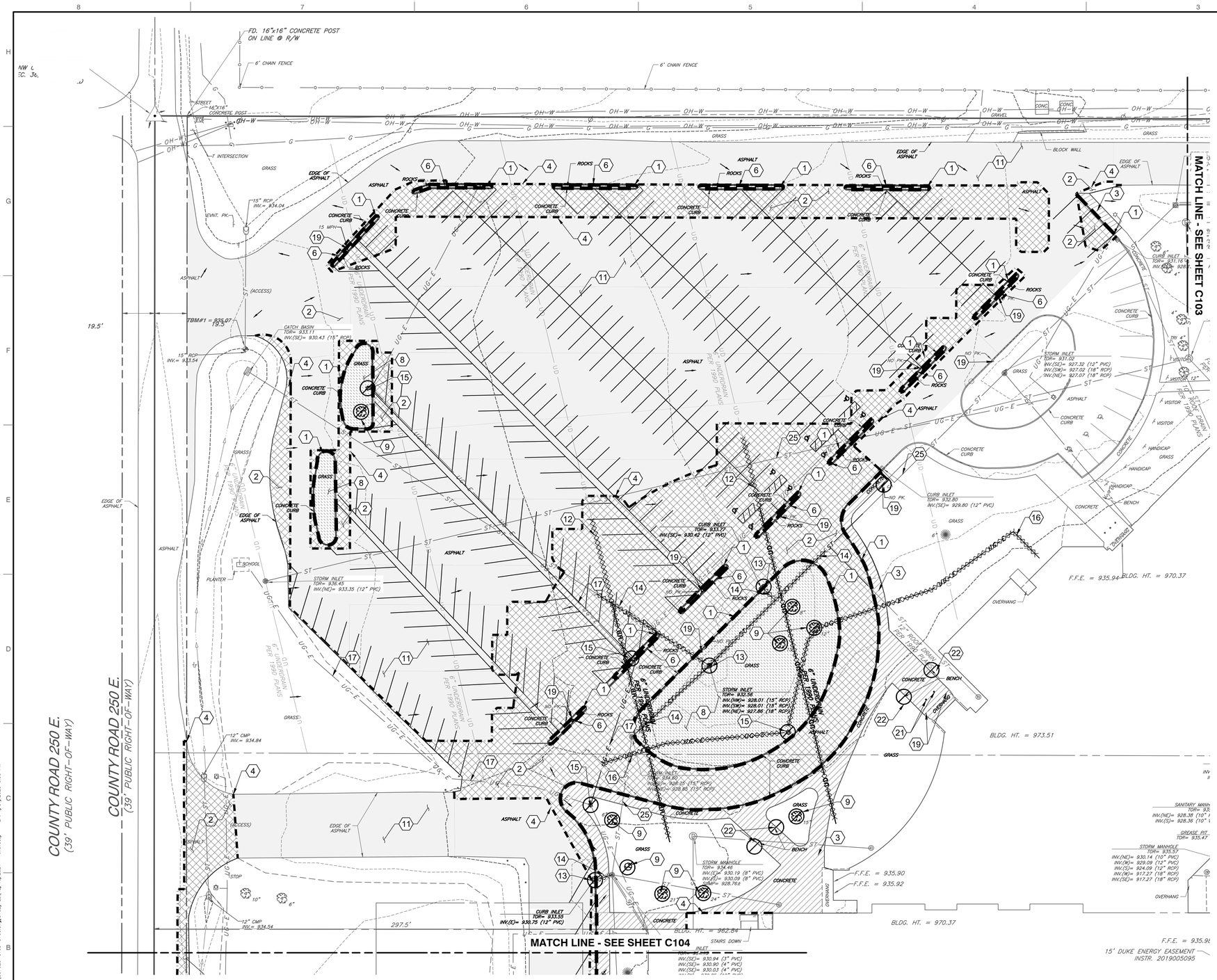
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DEMOLITION PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: **C101**

P:\330-003\337-620\-0400\Dwg\CK03-Construction Documents\337620-CK03-C100.dwg[C101] LS:(10/10/2024 - Ivelloza) - LA: 1/31/2025 6:30 PM



DEMOLITION ITEMS:

1. REMOVE CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.
2. EXISTING ASPHALT & BASE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3. EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
4. FULL DEPTH SAWCUT.
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12. ~~REMOVE EXISTING UNDERDRAIN PIPE AND DISPOSE OF OFF SITE. AS REQUIRED FOR PROPOSED TURF FIELD UNDERDRAIN SYSTEM.~~
13. REMOVE EXISTING STORM STRUCTURE COMPLETE; DISPOSE OF OFF SITE.
14. REMOVE EXISTING STORM PIPE AND DISPOSE OF OFF SITE.
15. SALVAGE EXISTING LIGHT/POWER POLE OR GUY WIRE & REMOVE CONCRETE BASE COMPLETE.
16. REMOVE EXISTING UNDERGROUND ELECTRIC. REFEED LIGHT/POWER POLES TO REMAIN PER ELECTRIC PLANS.
17. PROTECT AND MAINTAIN EXISTING UNDERGROUND ELECTRIC.
18. ~~REMOVE EXISTING UNDERGROUND IRRIGATION SYSTEM; CONTRACTOR TO REMOVE IRRIGATION HEADS AND RETURN TO OWNER.~~
19. SALVAGE EXISTING SIGN FOR REUCSE. REMOVE EXISTING POST AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.
20. REMOVE EXISTING SIGN, POST AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.
21. EXISTING CONCRETE BOLLARD TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
22. SALVAGE EXISTING BENCH FOR REUSE. REMOVE CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.
23. ~~REMOVE EXISTING POSTS AND CONCRETE BASE COMPLETE; SALVAGE OUTLET/EQUIPMENT AND RETURN TO OWNER~~
24. ~~REMOVE EXISTING FIELD GOAL POSTS AND CONCRETE BASE COMPLETE DISPOSE OF OFF SITE.~~
25. PROTECT AND MAINTAIN EXISTING STORM SEWERS.
26. ~~PROTECT EXISTING SCOREBOARD.~~
27. ~~TURN OFF EXISTING WATER VALVE.~~
28. ~~CLOSE WATER SERVICE TO FIELD.~~
29. ~~REMOVE EXISTING WATER STRUCTURE AND CAP EXISTING WATER SERVICE LINE.~~

DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL SURFACE TO BE REMOVED
- ATHLETIC SURFACE TO BE REMOVED
- LANDSCAPING TO BE REMOVED
- MILL
- EXISTING BLEACHERS TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE PROTECTED

REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

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SCALE IN FEET
0 30 60

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
Nº PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

Civil & Environmental Consultants, Inc.

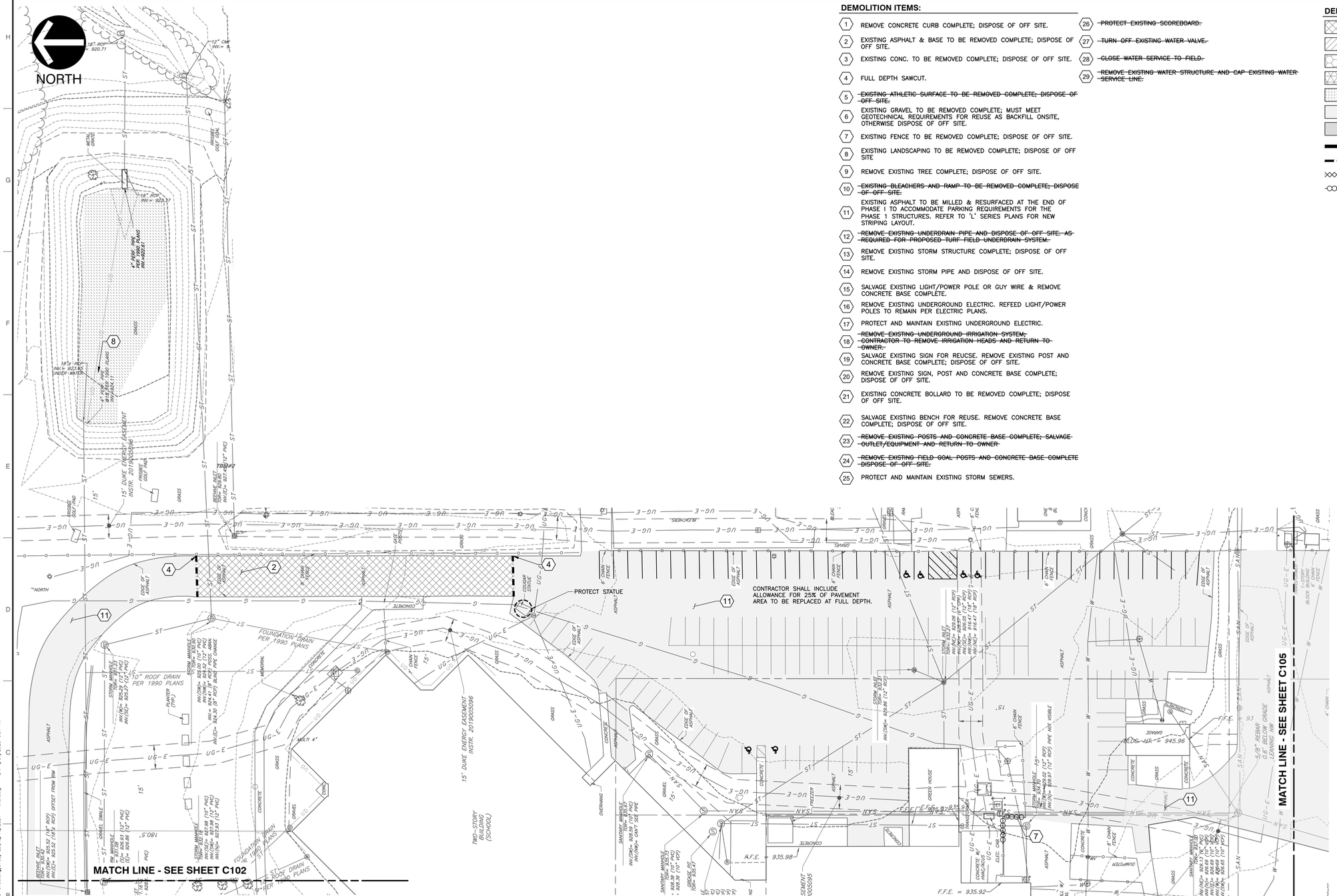
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DEMOLITION PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C102

P:\337-620\337-620\CAD\Dwg\C103-Construction Documents\337620-C103-C105.dwg[C102] LS:(12/10/2024 - textlocal) - LP: 1/31/2025 6:30 PM



DEMOLITION ITEMS:

1. REMOVE CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.
2. EXISTING ASPHALT & BASE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3. EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
4. FULL DEPTH SAWCUT.
5. ~~EXISTING ATHLETIC SURFACE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.~~
6. EXISTING GRAVEL TO BE REMOVED COMPLETE; MUST MEET GEOTECHNICAL REQUIREMENTS FOR REUSE AS BACKFILL ONSITE, OTHERWISE DISPOSE OF OFF SITE.
7. EXISTING FENCE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
8. EXISTING LANDSCAPING TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE
9. REMOVE EXISTING TREE COMPLETE; DISPOSE OF OFF SITE.
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24. ~~REMOVE EXISTING FIELD GOAL POSTS AND CONCRETE BASE COMPLETE DISPOSE OF OFF SITE.~~
25. PROTECT AND MAINTAIN EXISTING STORM SEWERS.
26. ~~PROTECT EXISTING SCOREBOARD.~~
27. ~~TURN OFF EXISTING WATER VALVE.~~
28. ~~CLOSE WATER SERVICE TO FIELD.~~
29. ~~REMOVE EXISTING WATER STRUCTURE AND CAP EXISTING WATER SERVICE LINE.~~

DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL SURFACE TO BE REMOVED
- ATHLETIC SURFACE TO BE REMOVED
- LANDSCAPING TO BE REMOVED
- MILL
- EXISTING BLEACHERS TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE PROTECTED

UTILITY NOTE:

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REFERENCES:

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2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
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SCALE IN FEET
0 30 60

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TODD C. WALLACE
REGISTERED
NR PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

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NO	DATE	DESCRIPTION

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WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

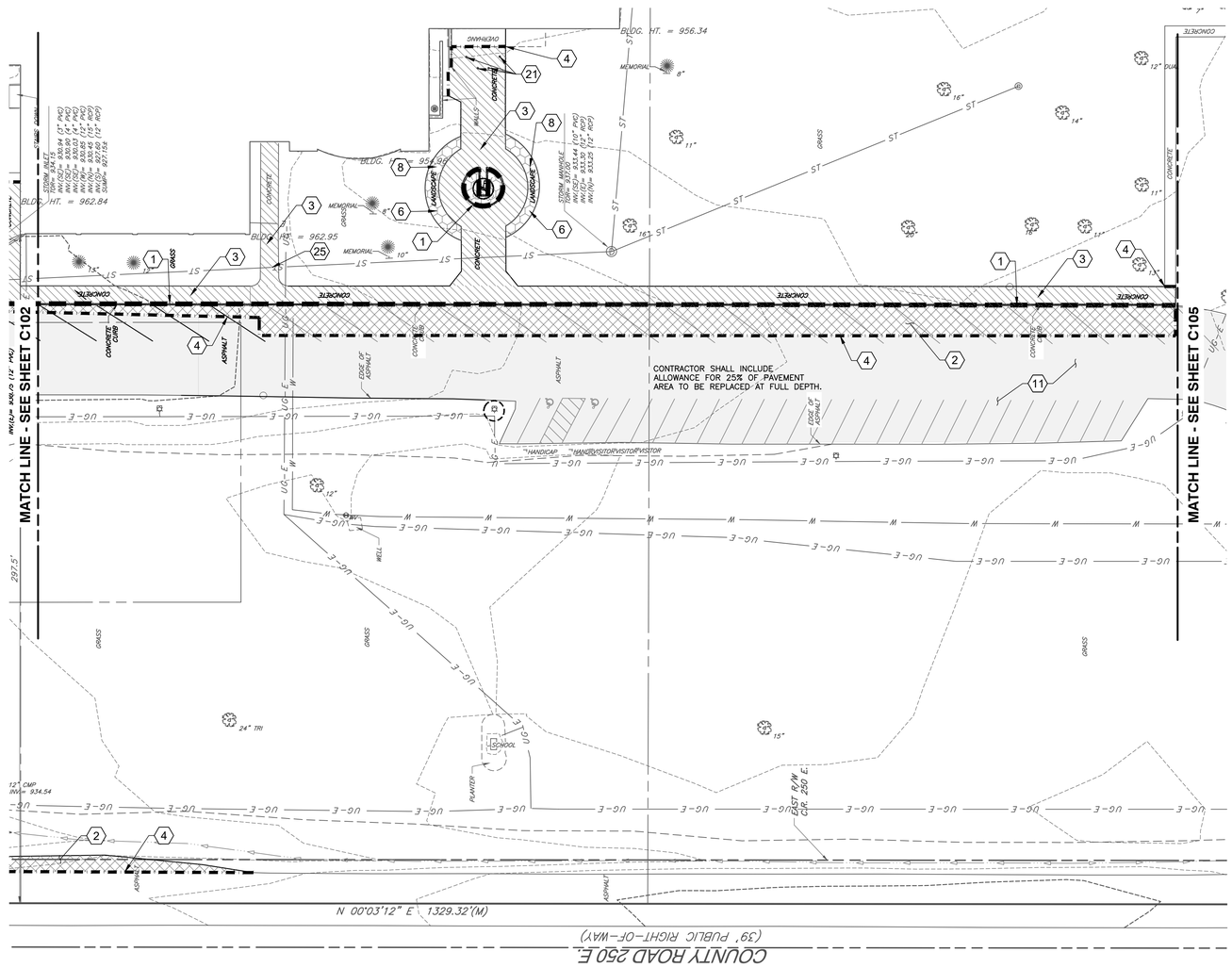
SITE DEMOLITION PLAN

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.: C103

P:\130-0061\337-620\-CADD\Dwg\C103-Construction Documents\337620-C103-C105.dwg(C103) 1:1(12/10/2024 - twallace) - LP: 1/31/2025 6:31 PM

NORTH



DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- GRAVEL SURFACE TO BE REMOVED
- ATHLETIC SURFACE TO BE REMOVED
- LANDSCAPING TO BE REMOVED
- MILL
- EXISTING BLEACHERS TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE PROTECTED

DEMOLITION ITEMS:

1. REMOVE CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.
2. EXISTING ASPHALT & BASE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3. EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
4. FULL DEPTH SAWCUT.
5. ~~EXISTING ATHLETIC SURFACE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.~~
6. EXISTING GRAVEL TO BE REMOVED COMPLETE; MUST MEET GEOTECHNICAL REQUIREMENTS FOR REUSE AS BACKFILL ONSITE, OTHERWISE DISPOSE OF OFF SITE.
7. ~~EXISTING FENCE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.~~
8. EXISTING LANDSCAPING TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE
9. REMOVE EXISTING TREE COMPLETE; DISPOSE OF OFF SITE.
10. ~~EXISTING BLEACHERS AND RAMP TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.~~
11. EXISTING ASPHALT TO BE MILLED & RESURFACED AT THE END OF PHASE I TO ACCOMMODATE PARKING REQUIREMENTS FOR THE PHASE 1 STRUCTURES. REFER TO 'L' SERIES PLANS FOR NEW STRIPING LAYOUT.
12. ~~REMOVE EXISTING UNDERDRAIN PIPE AND DISPOSE OF OFF SITE. AS REQUIRED FOR PROPOSED TURF FIELD UNDERDRAIN SYSTEM.~~
13. REMOVE EXISTING STORM STRUCTURE COMPLETE; DISPOSE OF OFF SITE.
14. REMOVE EXISTING STORM PIPE AND DISPOSE OF OFF SITE.
15. SALVAGE EXISTING LIGHT/POWER POLE OR GUY WIRE & REMOVE CONCRETE BASE COMPLETE.
16. REMOVE EXISTING UNDERGROUND ELECTRIC. REFEED LIGHT/POWER POLES TO REMAIN PER ELECTRIC PLANS.
17. PROTECT AND MAINTAIN EXISTING UNDERGROUND ELECTRIC.
18. ~~REMOVE EXISTING UNDERGROUND IRRIGATION SYSTEM; CONTRACTOR TO REMOVE IRRIGATION HEADS AND RETURN TO OWNER.~~
19. SALVAGE EXISTING SIGN FOR REUCSE. REMOVE EXISTING POST AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.
20. REMOVE EXISTING SIGN, POST AND CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.
21. EXISTING CONCRETE BOLLARD TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
22. SALVAGE EXISTING BENCH FOR REUSE. REMOVE CONCRETE BASE COMPLETE; DISPOSE OF OFF SITE.
23. ~~REMOVE EXISTING POSTS AND CONCRETE BASE COMPLETE; SALVAGE OUTLET/EQUIPMENT AND RETURN TO OWNER.~~
24. ~~REMOVE EXISTING FIELD GOAL POSTS AND CONCRETE BASE COMPLETE DISPOSE OF OFF SITE.~~
25. PROTECT AND MAINTAIN EXISTING STORM SEWERS.
26. ~~PROTECT EXISTING SCOREBOARD.~~
27. ~~TURN OFF EXISTING WATER VALVE.~~
28. ~~CLOSE WATER SERVICE TO FIELD.~~
29. ~~REMOVE EXISTING WATER STRUCTURE AND CAP EXISTING WATER SERVICE LINE.~~

UTILITY NOTE:

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SCALE IN FEET
0 30 60

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Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS
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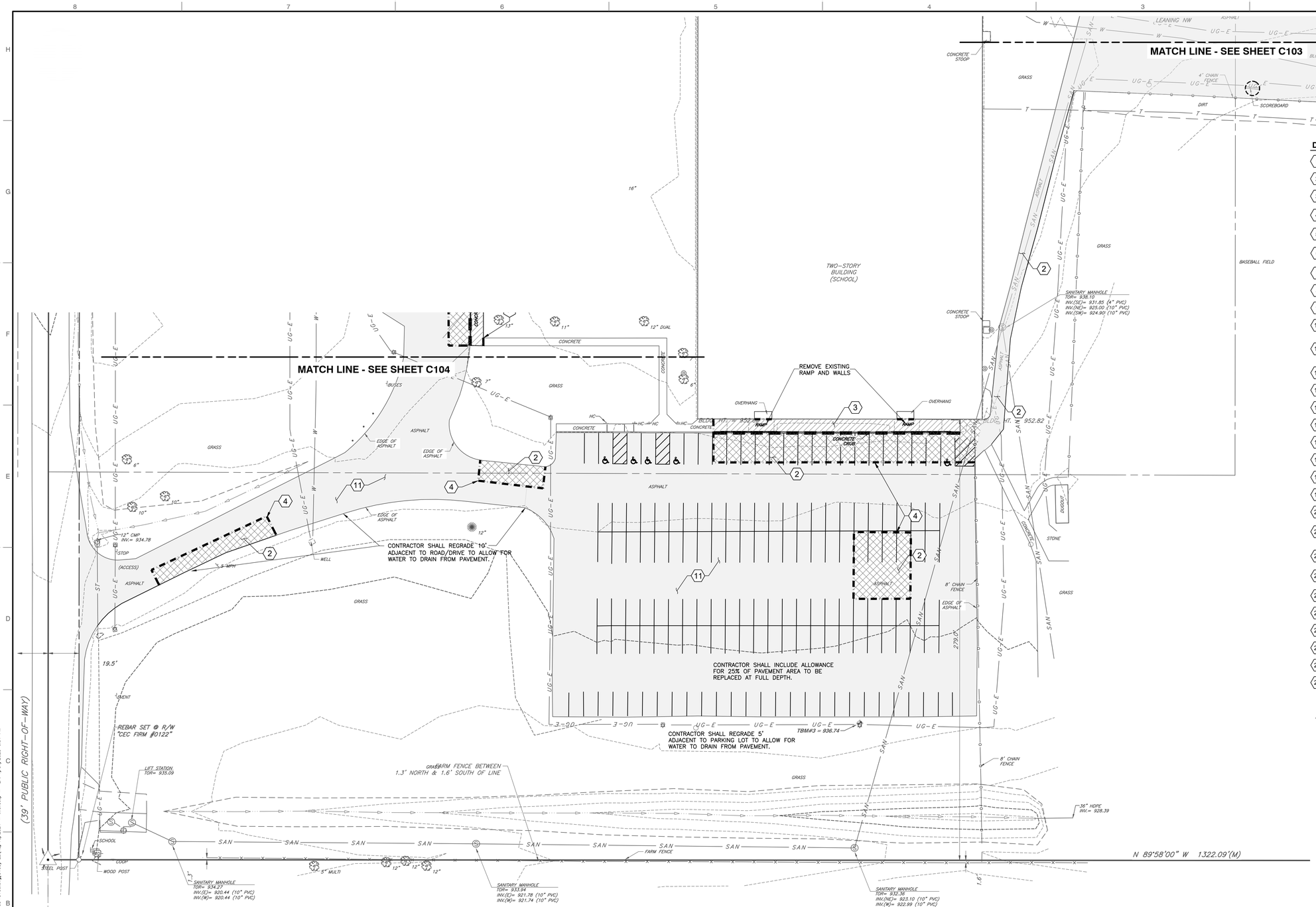
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DEMOLITION PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C104

P:\337-620\337-620\Dwg\C103-Construction Documents\337620-C103-C105.dwg[C104] LS(10/10/2024 - twilbourg) - LP: 1/31/2025 6:31 PM



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2. EXISTING ASPHALT & BASE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
3. EXISTING CONC. TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.
4. FULL DEPTH SAWCUT.
5. ~~EXISTING ATHLETIC SURFACE TO BE REMOVED COMPLETE; DISPOSE OF OFF SITE.~~
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27. ~~TURN OFF EXISTING WATER VALVE.~~
28. ~~CLOSE WATER SERVICE TO FIELD.~~
29. ~~REMOVE EXISTING WATER STRUCTURE AND CAP EXISTING WATER SERVICE LINE.~~

DEMOLITION LEGEND:

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- CONCRETE TO BE REMOVED
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SCALE IN FEET
0 30 60

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REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
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Civil & Environmental Consultants, Inc.

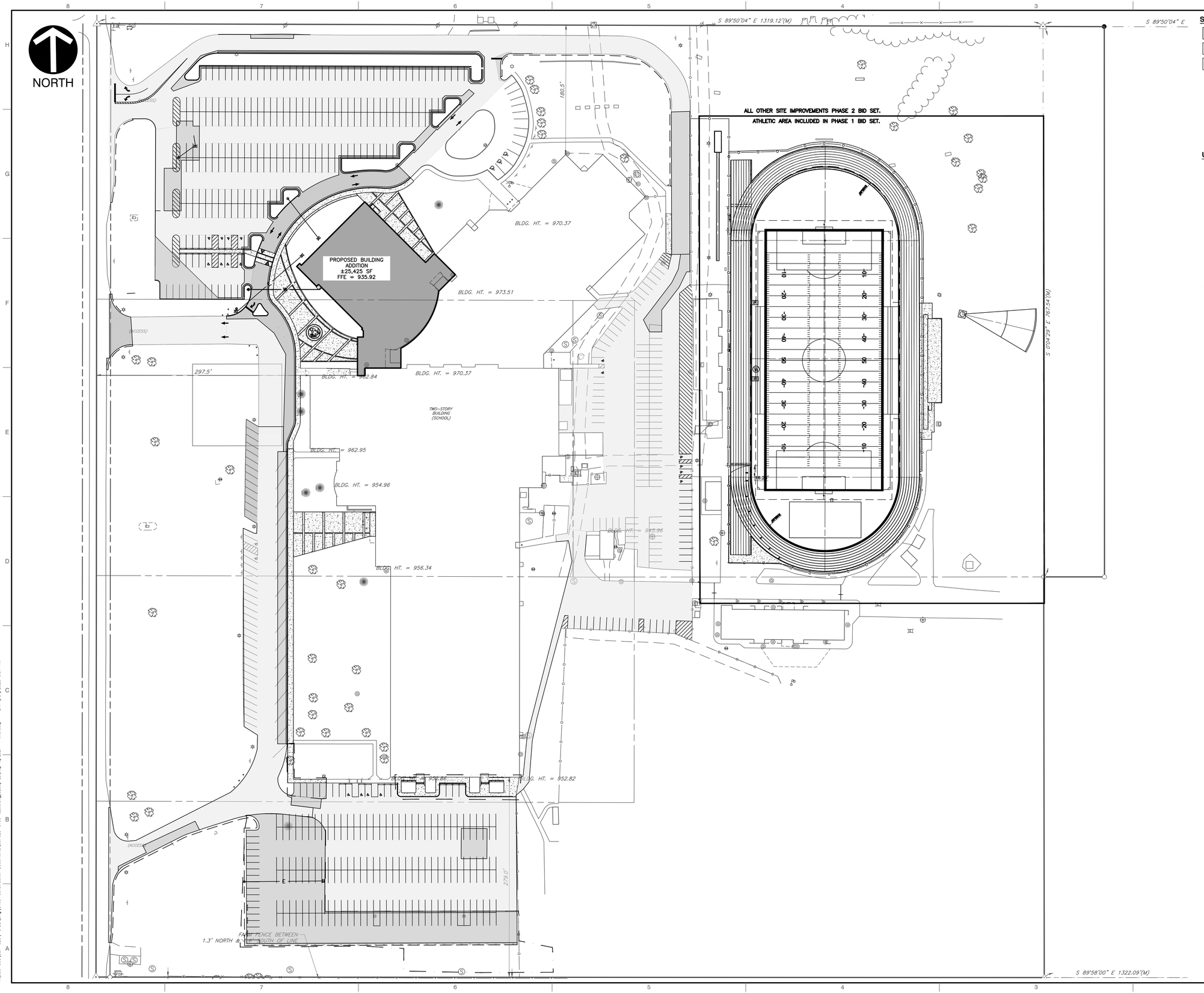
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DEMOLITION PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	
	DRAFT

DRAWING NO.: **C105**

P:\330-003\337-620\ - CADD\Dwg\CIVIL-Construction Documents\337620-CV03-C100.dwg(C105) LS:(10/10/2024 - texttocad) - LP: 1/31/2025 6:31 PM



SITE LEGEND:

- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED MILL AND RESURFACE PAVEMENT
- PROPOSED CONCRETE SIDEWALK (COORDINATE WITH ARCHITECTURAL PLANS)
- PROPOSED ADA PARKING SYMBOL, PARKING BUMPER, SIGN, DETECTABLE WARNING STRIP

UTILITY LEGEND:

- PROPOSED STORM SEWER LINE
- SAN — PROPOSED SANITARY LINE
- E — PROPOSED ELECTRIC LINE
- T — PROPOSED TELEPHONE LINE
- FO — PROPOSED FIBER OPTIC LINE
- G — PROPOSED GAS LINE
- W — PROPOSED WATER LINE
- PROPOSED OVERHEAD UTILITY LINE
- PROPOSED CONDUIT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED FDC, HYDRANT, WALL PIV, WATER VALVE, FREE STANDING FDC
- PROPOSED SANITARY MANHOLE, CLEAN OUT
- PROPOSED ELECTRIC LIGHT POLE, PULL BOX TRANSFORMER

SCALE IN FEET
0 60 120

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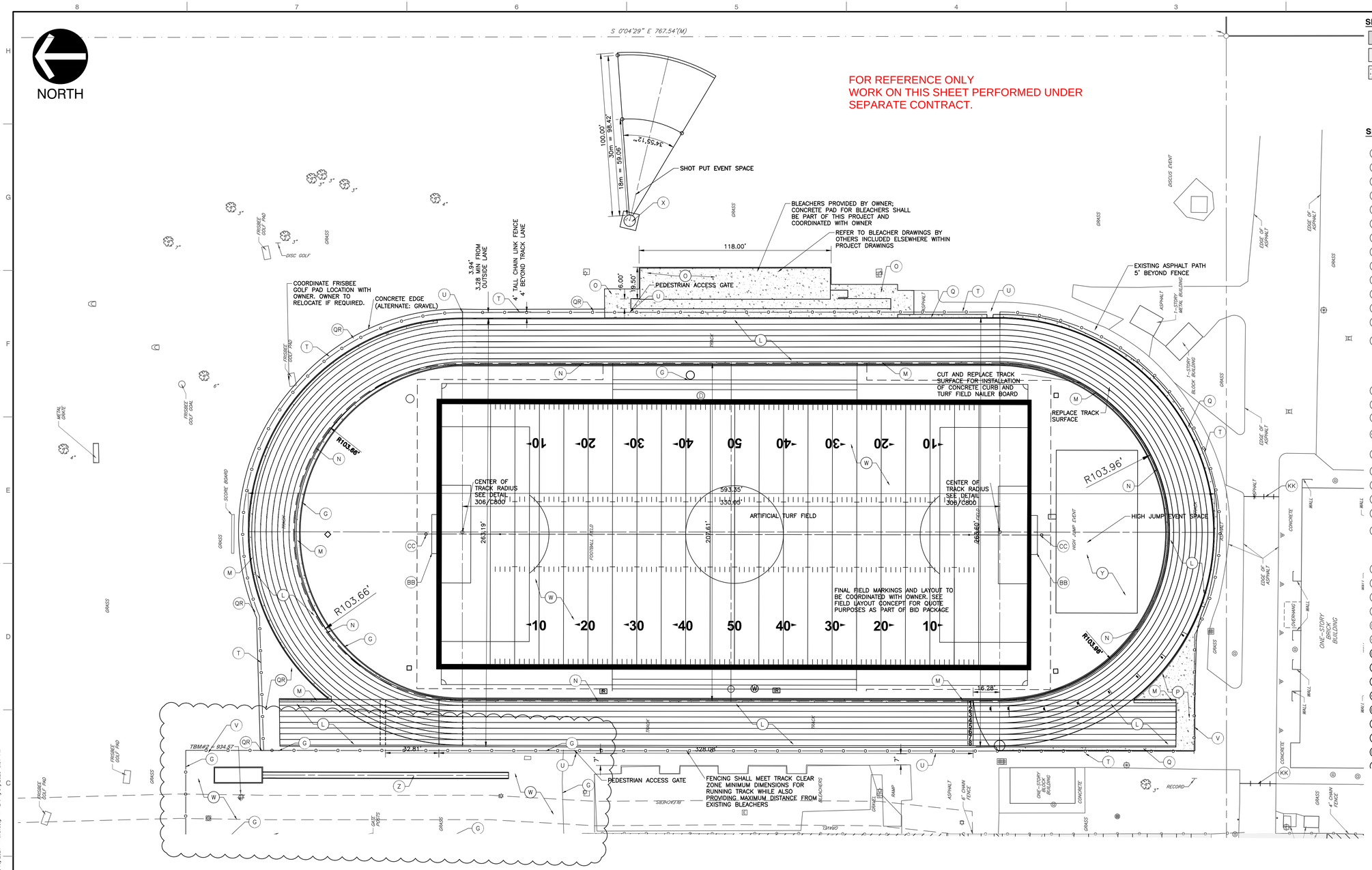
NORTH PUTNAM COMMUNITY SCHOOLS IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

OVERALL LAYOUT PLAN

DATE:	JAN 31, 2025
DWG SCALE:	1"=30'
PROJECT NO:	
APPROVED BY:	
DRAWN BY:	EBI
CHECKED BY:	TCW
	337-620
	DRAFT

DRAWING NO.:
C200

P:\330-000\337-620\-CADD\Dwg\CV03-Construction Documents\337620-CV03-C200.dwg(C200) LS:(12/10/2024 - twallace) - LP: 1/31/2025 6:31 PM



SITE LEGEND:

- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED MILL AND RESURFACE PAVEMENT
- PROPOSED CONCRETE SIDEWALK (COORDINATE WITH ARCHITECTURAL PLANS)
- PROPOSED ADA PARKING SYMBOL, PARKING BUMPER, SIGN, DETECTABLE WARNING STRIP

SITE KEY NOTES:

- (A) ~~FULL DEPTH STANDARD ASPHALT PAVEMENT (2" MIN.)~~
- (B) ~~FULL DEPTH HEAVY DUTY ASPHALT PAVEMENT (2" MIN.)~~
- (C) ~~MILL AND RESURFACE ASPHALT PAVEMENT~~
- (D) ~~COMBINED CHAIR BACK CURB GUTTER AND SIDEWALK~~
- (E) ~~6" CONCRETE BARRIER CURB~~
- (F) ~~DRAINAGE CURB CUT~~
- (G) 6" CONCRETE FLUSH CURB WITH TURF NAILER
- (H) ~~PAINTED LANE LINE 4" - YELLOW~~
- (I) ~~PAINTED DIRECTIONAL ARROW - WHITE~~
- (J) ~~PAINTED STOP BAR - WHITE~~
- (K) ~~PAINTED LANE LINE 4" - WHITE~~
- (L) REPLACE TRACK SURFACE.
- (M) INSTALL FULL DEPTH TRACK SURFACE
- (N) LANE 1 TRACK MEASURE LINE. MARK ALL LANE MARKINGS PER IHSAA, NFHS, AND ASBA STANDARDS.
  BASE BID: PROVIDE CLASS 4 REPORT OF MEASUREMENT FOR 400M (1312.3359 FT) TRACK.
  CIVIL ALTERNATE 1: CLASS 5 CERTIFICATE OF ACCURACY THAT LISTS COMPLIANCE WITH IHSAA STANDARDS FOR 400M (1312.3359 FT) TRACK AND IF APPLICABLE REASON TRACK IS NOT INTENDED TO HOST A STATE MEET.
- (O) CONCRETE PAD FOR BLEACHERS
- (P) CONCRETE SIDEWALK
- (Q) CONCRETE EDGE 2' BEYOND FENCE
- (QR) BASE BID: CONCRETE EDGE 2' BEYOND FENCE.
  CIVIL ALTERNATE 2: GRAVEL DIAPHRAGM PRETREATMENT AT ASPHALT EDGE. SEE DETAIL ON SHEET C801.
- (R) ~~GRAVEL DIAPHRAGM PRETREATMENT AT ASPHALT EDGE. SEE DETAIL ON SHEET C802.~~
- (S) ~~WHEEL STOPS TO PROTECT RAMPS AND WALKS AT ADA SPACES. SEE DETAIL ON SHEET C803.~~
- (T) 4' CHAIN LINK FENCE
- (U) 5' WIDE PEDESTRIAN GATE IN 4' CHAIN LINK FENCE.
- (V) 8' WIDE MAINTENANCE VEHICLE GATE IN 4' CHAIN LINK FENCE.
- (W) ARTIFICIAL TURF FIELD WITH IHSAA AND NFHS MARKINGS FOR HIGH SCHOOL SOCCER AND AMERICAN FOOTBALL. COORDINATE COLORS AND END ZONE DESIGNS WITH OWNER.
  BASE BID: PER SPECIFICATION
- (X) CONCRETE PAD AND DISTANCE MARKERS FOR NEW SHOT PUT EVENT SPACE
- (Y) NEW SURFACE PADDING AND EQIPMENT FOR HIGH JUMP EVENT SPACE
- (Z) RESURFACE 48" WIDE TRACK RUNWAY SURFACE AND NFHS EVENT MARKINGS.
- (AA) ~~NEW LANDING SURFACE FOR LONG JUMP EVENT~~
- (BB) PORTABLE HIGH SCHOOL SOCCER GOAL
- (CC) HIGH SCHOOL FOOTBALL FIELD GOALPOST
- (DD) ~~SPEED TABLE; SEE GRADING AND DETAIL SHEET C803.~~
- (EE) ~~ACCESSIBLE PARKING SPACE; SEE DETAILS SHEET C803.~~
- (FF) ~~CONCRETE SIDEWALK INTEGRATED WITH CONCRETE BARRIER CURB~~
- (GG) ~~ADA COMPLIANT RAMP OR STAIRS WITH ADA COMPLIANT HANDRAILS~~
- (HH) ~~PROPOSED WALL; SEE ARCHITECTURAL PLANS~~
- (II) ~~PROPOSED FDC CONNECTION~~
- (JJ) ~~PROPOSED WATER TANK; SEE MEP PLANS~~
- (KK) REMOVABLE SPEED BUMP
- (LL) 6' CHAIN LINK FENCE. MATCH EXISTING

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1		ADDENDUM #1

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Civil & Environmental Consultants, Inc.

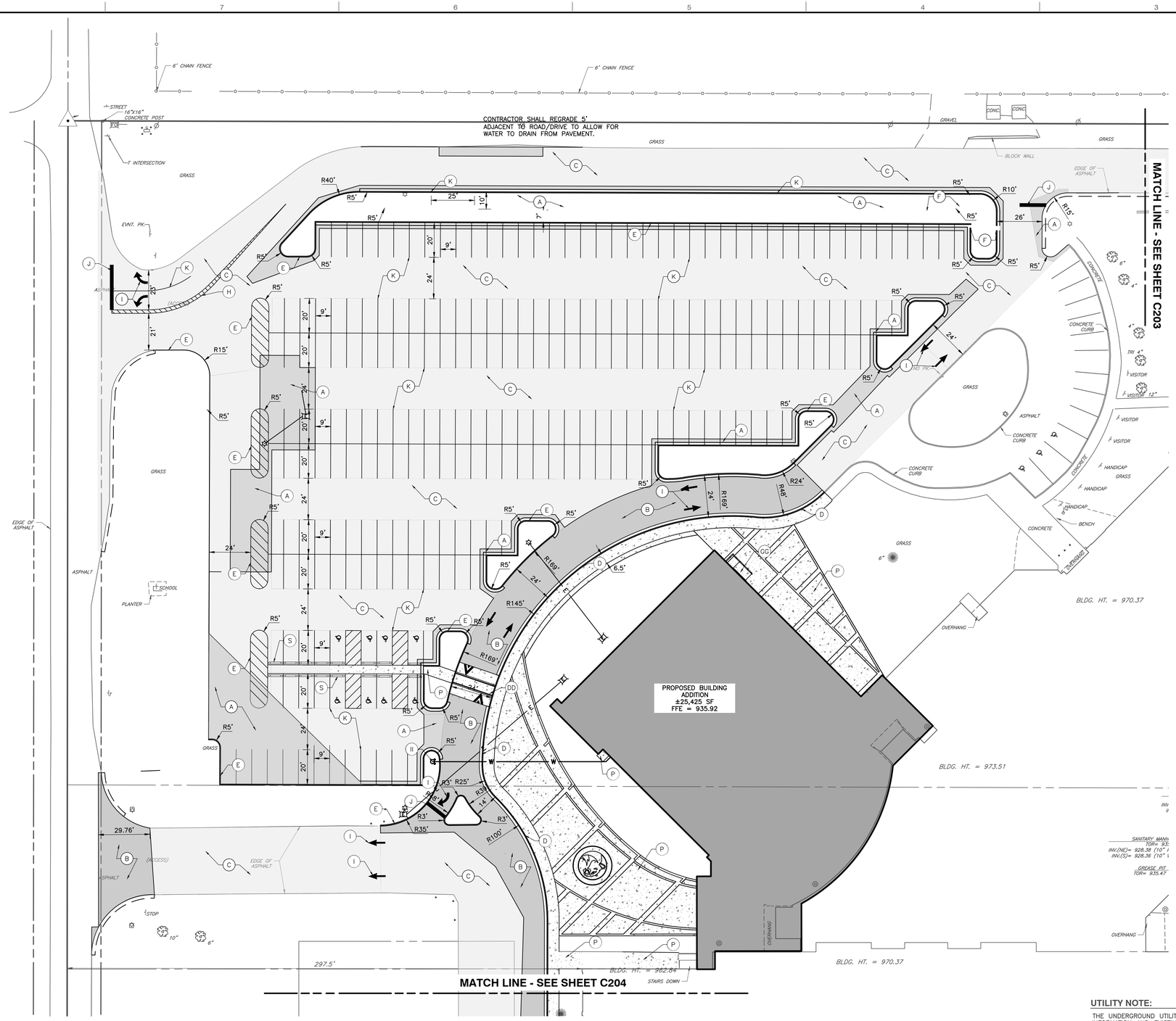
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

LAYOUT PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C201

P:\337-620\337-620\-CADD\Dwg\C003-Construction Documents\337620-C003-C200.dwg\C201\ LS:(12/10/2024 - wallace) - LP: 1/31/2025 6:31 PM



SITE LEGEND:

- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED MILL AND RESURFACE PAVEMENT
- PROPOSED CONCRETE SIDEWALK (COORDINATE WITH ARCHITECTURAL PLANS)
- PROPOSED ADA PARKING SYMBOL, PARKING BUMPER, SIGN, DETECTABLE WARNING STRIP

SITE KEY NOTES:

- (A) FULL DEPTH STANDARD ASPHALT PAVEMENT (2' MIN.)
- (B) FULL DEPTH HEAVY DUTY ASPHALT PAVEMENT (2' MIN.)
- (C) MILL AND RESURFACE ASPHALT PAVEMENT
- (D) COMBINED CHAIR BACK CURB GUTTER AND SIDEWALK
- (E) 6" CONCRETE BARRIER CURB
- (F) DRAINAGE CURB CUT
- (G) 6" CONCRETE FLUSH CURB WITH TURF NAILER
- (H) PAINTED LANE LINE–4" – YELLOW
- (I) PAINTED DIRECTIONAL ARROW – WHITE
- (J) PAINTED STOP BAR – WHITE
- (K) PAINTED LANE LINE–4" – WHITE
- (L) ~~REPLACE TRACK SURFACE.~~
- (M) ~~INSTALL FULL DEPTH TRACK SURFACE~~
- (N) ~~LANE 1 TRACK MEASURE LINE. MARK ALL LANE MARKINGS PER IHSAA, NFHS, AND ASBA STANDARDS. BASE BID: PROVIDE CLASS A REPORT OF MEASUREMENT FOR 400M (1312.3359 FT) TRACK. CIVIL ALTERNATE 1: CLASS 5 CERTIFICATE OF ACCURACY THAT LISTS COMPLIANCE WITH IHSAA STANDARDS FOR 400M (1312.3359 FT) TRACK AND IF APPLICABLE REASON TRACK IS NOT INTENDED TO HOST A STATE MEET.~~
- (O) ~~CONCRETE PAD FOR BLEACHERS~~
- (P) CONCRETE SIDEWALK
- (Q) ~~CONCRETE EDGE 2' BEYOND FENCE.~~
- (QR) ~~BASE BID: CONCRETE EDGE 2' BEYOND FENCE. CIVIL ALTERNATE 2: GRAVEL DIAPHRAGM PRETREATMENT AT ASPHALT EDGE. SEE DETAIL ON SHEET C801.~~
- (R) GRAVEL DIAPHRAGM PRETREATMENT AT ASPHALT EDGE. SEE DETAIL ON SHEET C802.
- (S) WHEEL STOPS TO PROTECT RAMPS AND WALKS AT ADA SPACES. SEE DETAIL ON SHEET C803.
- (T) ~~4' CHAIN LINK FENCE~~
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- (GG) ADA COMPLIANT RAMP OR STAIRS WITH ADA COMPLIANT HANDRAILS
- (HH) PROPOSED WALL; SEE ARCHITECTURAL PLANS
- (II) PROPOSED FDC CONNECTION
- (JJ) PROPOSED WATER TANK; SEE MEP PLANS
- (KK) ~~REMOVABLE SPEED BUMP~~

REFERENCES:

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SCALE IN FEET
0 30 60

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

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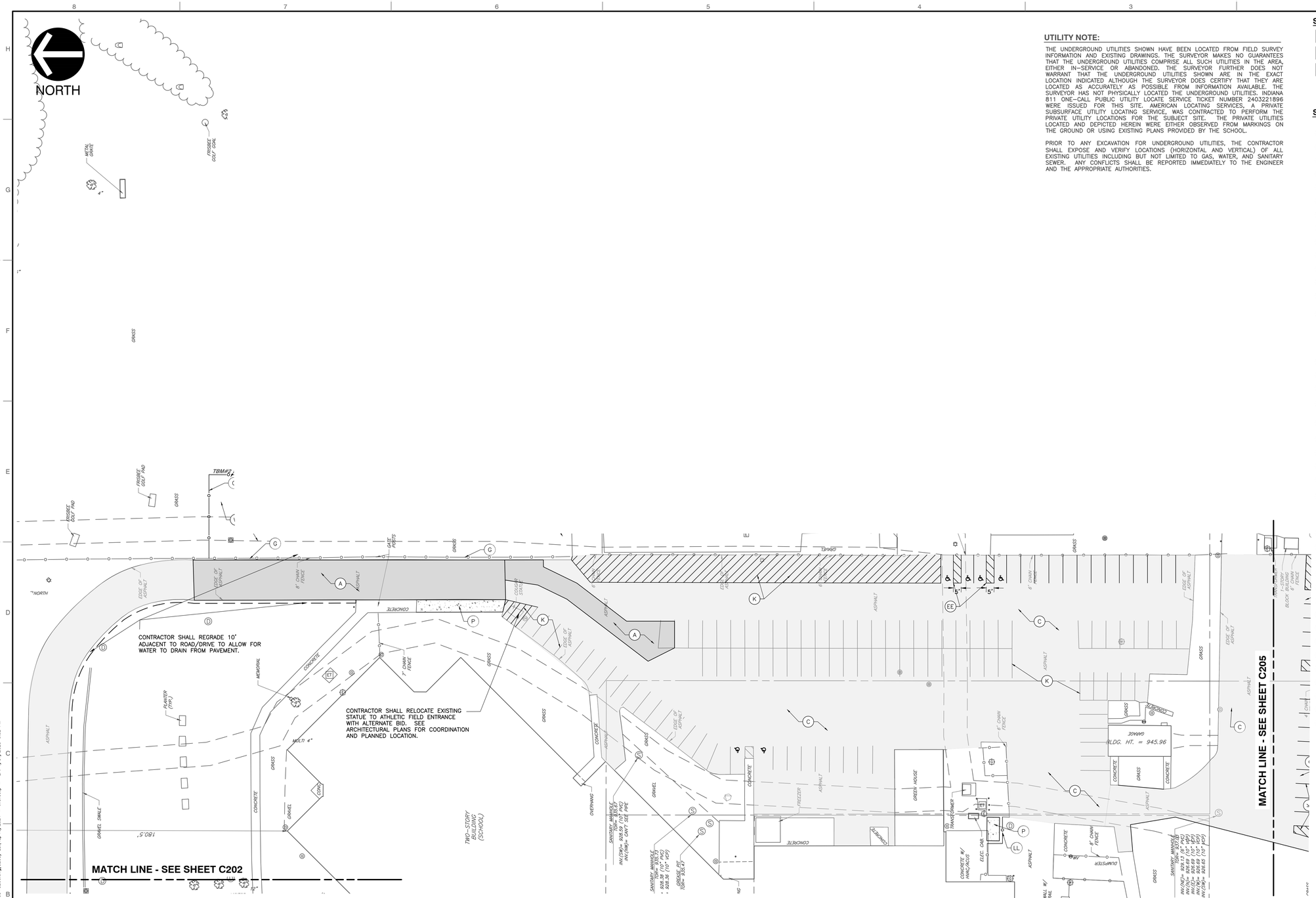
DRAWING NO.: C202

P:\130-005\137-6201\-0400\dwg\CK03-Construction Documents\137620-CK03-C200.dwg\C202\ LS:(10/10/2024 - tewilcox) - LP: 1/31/2025 6:32 PM



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- (JJ) PROPOSED WATER TANK; SEE MEP PLANS
- (KK) ~~REMOVABLE SPEED BUMP~~
- (LL) 6' CHAIN LINK FENCE, MATCH EXISTING

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CEC
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11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
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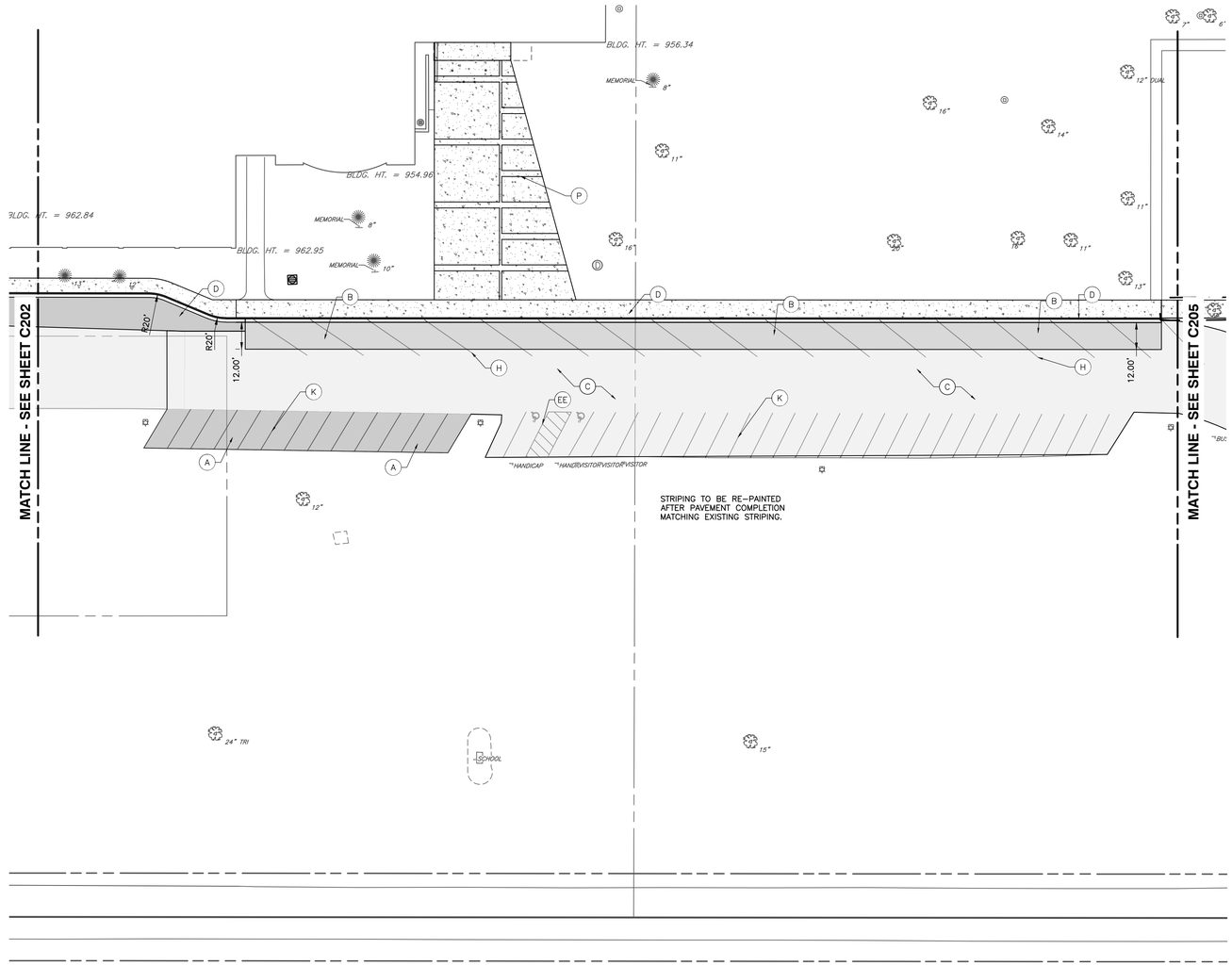
DRAWING NO.: C203

P:\330-003\337-620\-0400\Dwg\CK03-Construction Documents\337620-CK03-C200.dwg\C203 LS(10/10/2024 - lwallace) - LP: 1/31/2025 6:32 PM

NORTH



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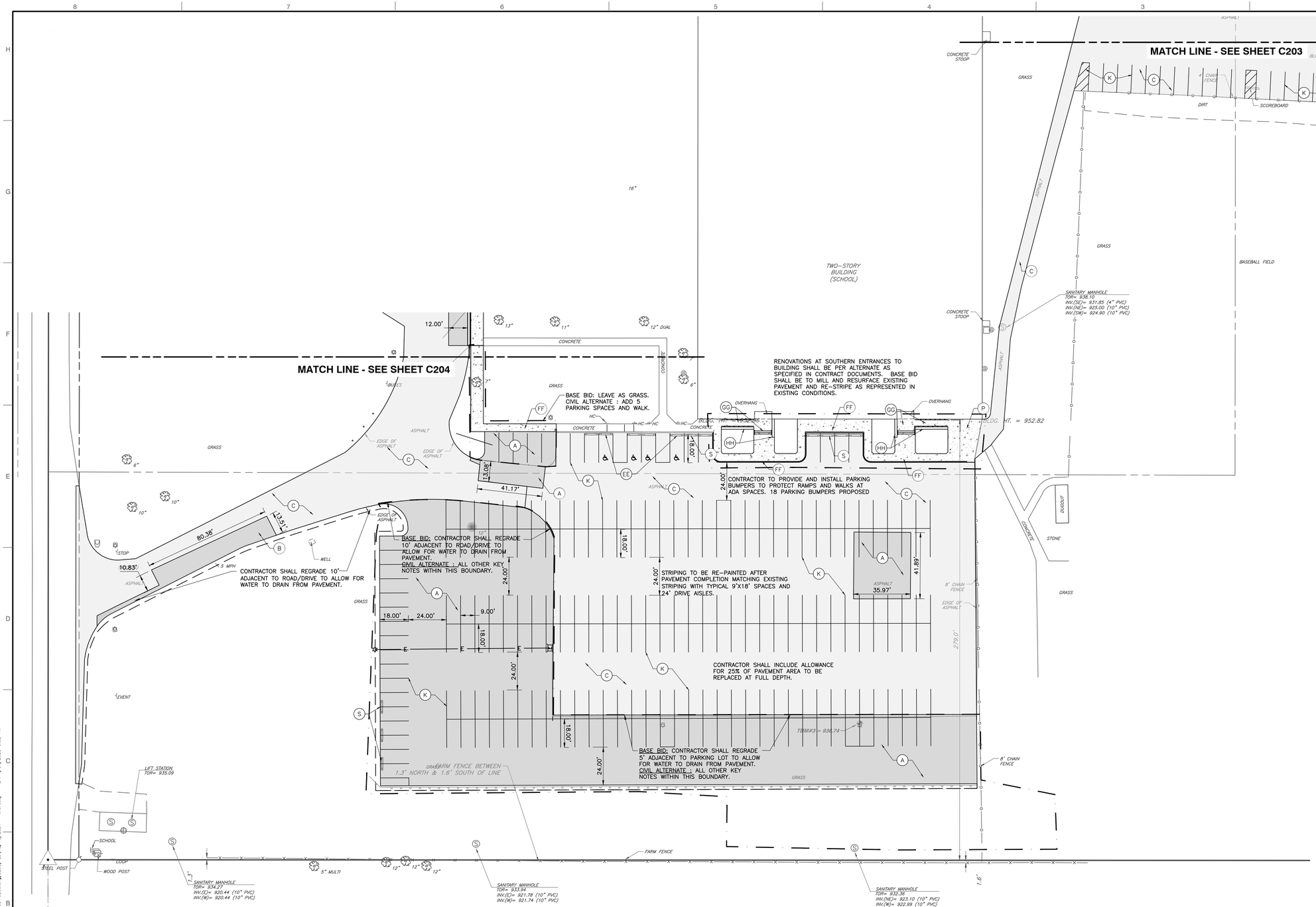
P:\330-0001\337-620\-04001\Dwg\CH33-Construction Documents\337620-CH33-C202.dwg\C204 LS(12/10/2024 - Wallace) - LP: 1/31/2025 6:12 PM



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- (GG) ADA COMPLIANT RAMP OR STAIRS WITH ADA COMPLIANT HANDRAILS
- (HH) PROPOSED WALL; SEE ARCHITECTURAL PLANS
- (II) PROPOSED FDC CONNECTION
- (JJ) PROPOSED WATER TANK; SEE MEP PLANS
- (KK) ~~REMOVABLE SPEED BUMP~~
- (LL) 6' CHAIN LINK FENCE, MATCH EXISTING

UTILITY NOTE:

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REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
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SCALE IN FEET
0 30 60

Indiana 811 — Know what's below. Call before you dig.

TODD C. WALLACE — REGISTERED — NO PE11011395 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
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Fishers, IN 46038
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www.cecinc.com

Civil & Environmental Consultants, Inc.

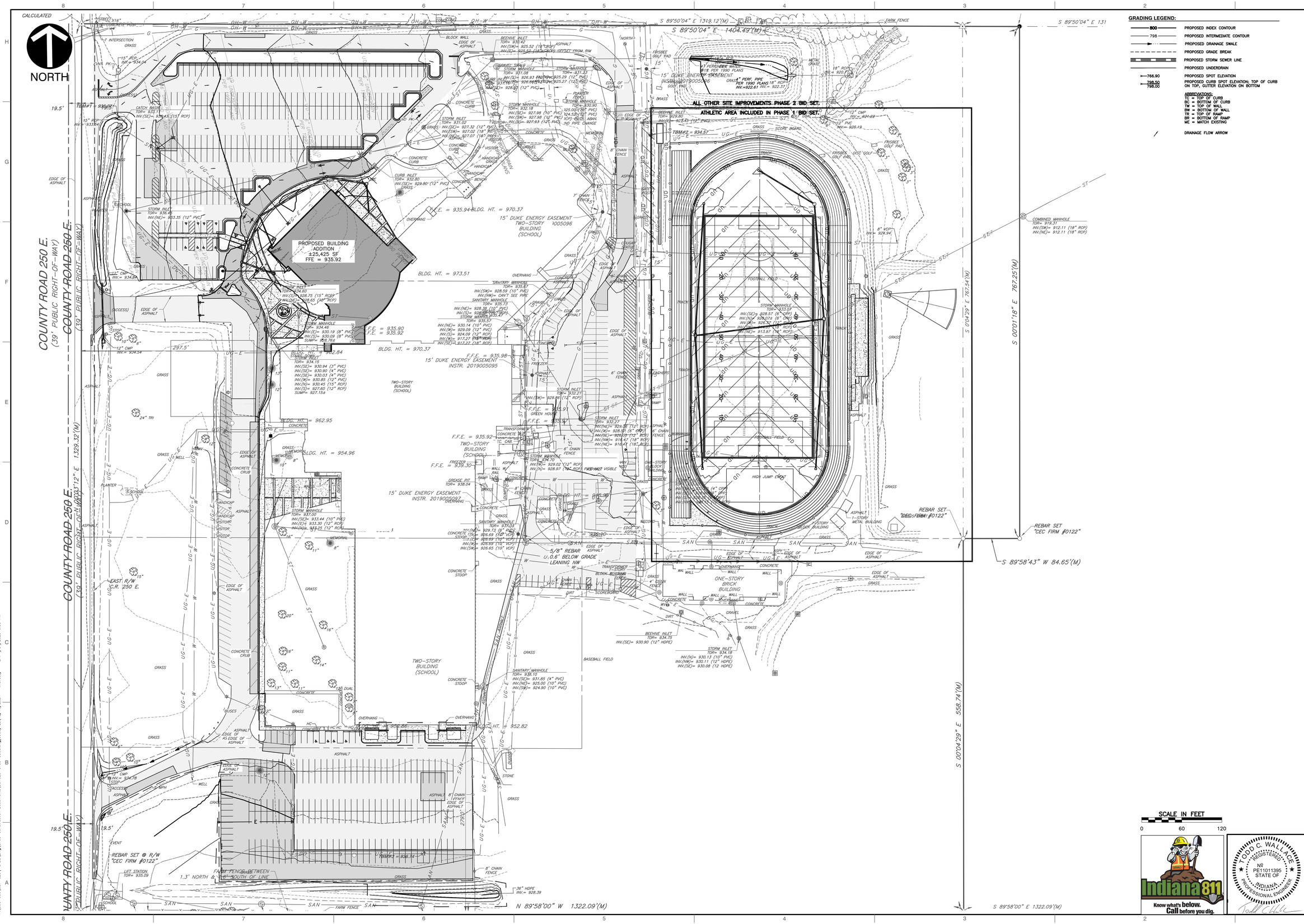
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

LAYOUT PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C205

P:\337-620\337-620\-CADD\Dwg\C103-Construction Documents\337620-C103-C205.dwg\C205\ LS:(12/10/2024 - wellborg) - LP: 1/31/2025 8:32 PM



GRADING LEGEND:

- 800 — PROPOSED INDEX CONTOUR
- 798 — PROPOSED INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE SWALE
- PROPOSED GRADE BREAK
- PROPOSED STORM SEWER LINE
- PROPOSED UNDERDRAIN
- ×—766.90 — PROPOSED SPOT ELEVATION
- ×798.50/798.00 — PROPOSED CURB SPOT ELEVATION; TOP OF CURB ON TOP, GUTTER ELEVATION ON BOTTOM

ABBREVIATIONS:

TC = TOP OF CURB
BC = BOTTOM OF CURB
TW = TOP OF WALL
BW = BOTTOM OF WALL
TR = TOP OF RAMP
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ME = MATCH EXISTING

DRAINAGE FLOW ARROW

REVISION RECORD

NO	DATE	DESCRIPTION

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IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

OVERALL GRADING AND DRAINAGE PLAN

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.: **C300**

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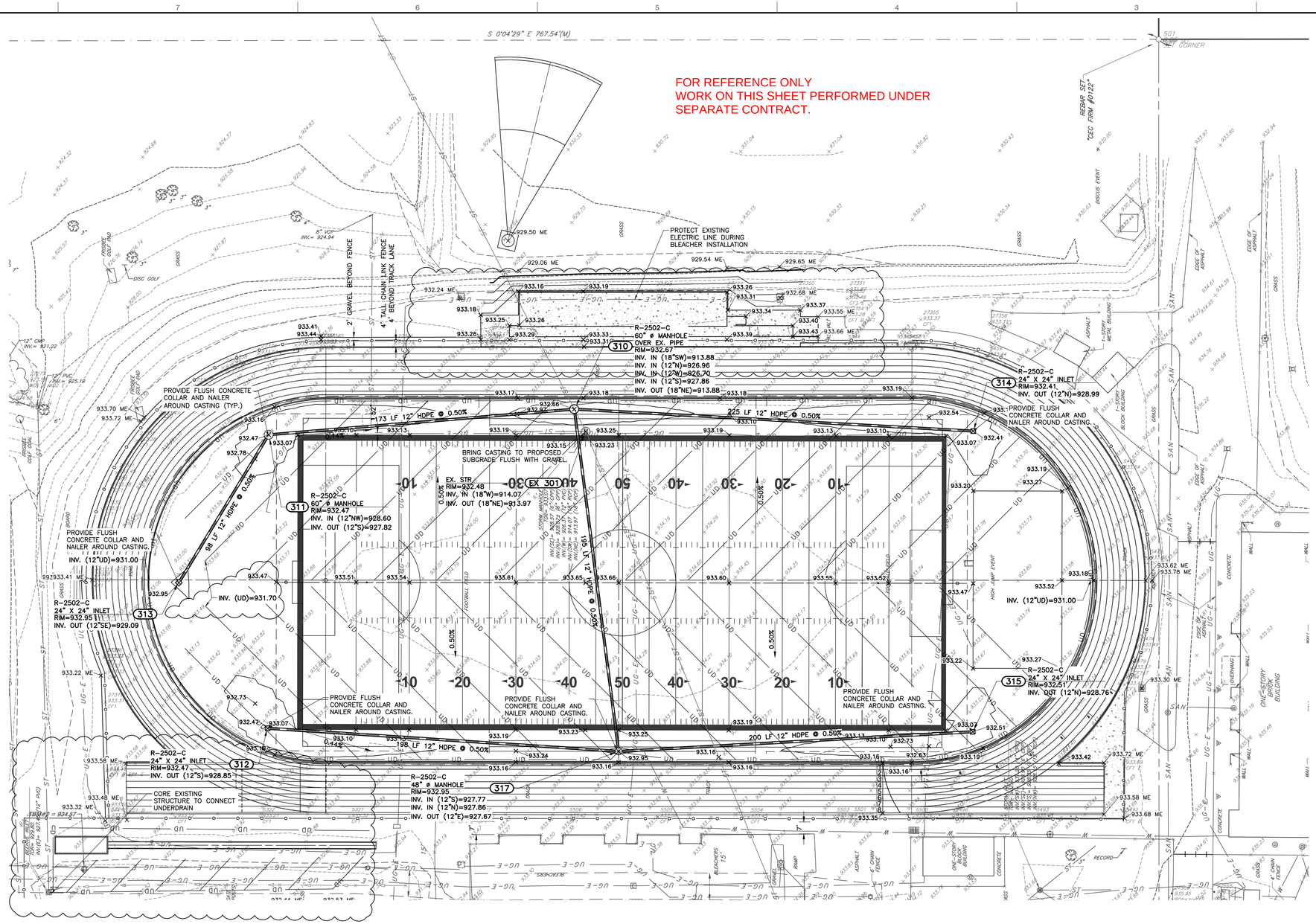

GRADING LEGEND:

800	PROPOSED INDEX CONTOUR
798	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED DRAINAGE SWALE
	PROPOSED GRADE BREAK
	PROPOSED STORM SEWER LINE
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DRAINAGE FLOW ARROW

GRADING GENERAL NOTES:

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
2. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
3. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TOA DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM). PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2%.
5. ALL SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
6. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
7. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
8. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
9. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
10. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
11. REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

GENERAL DRAINAGE NOTES:

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS. 4. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.

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SCALE IN FEET
0 30 60

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TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION
1		ADDENDUM #1

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www.cecinc.com

CEC
Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

GRADING AND DRAINAGE PLAN - ATHLETIC

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.: C301

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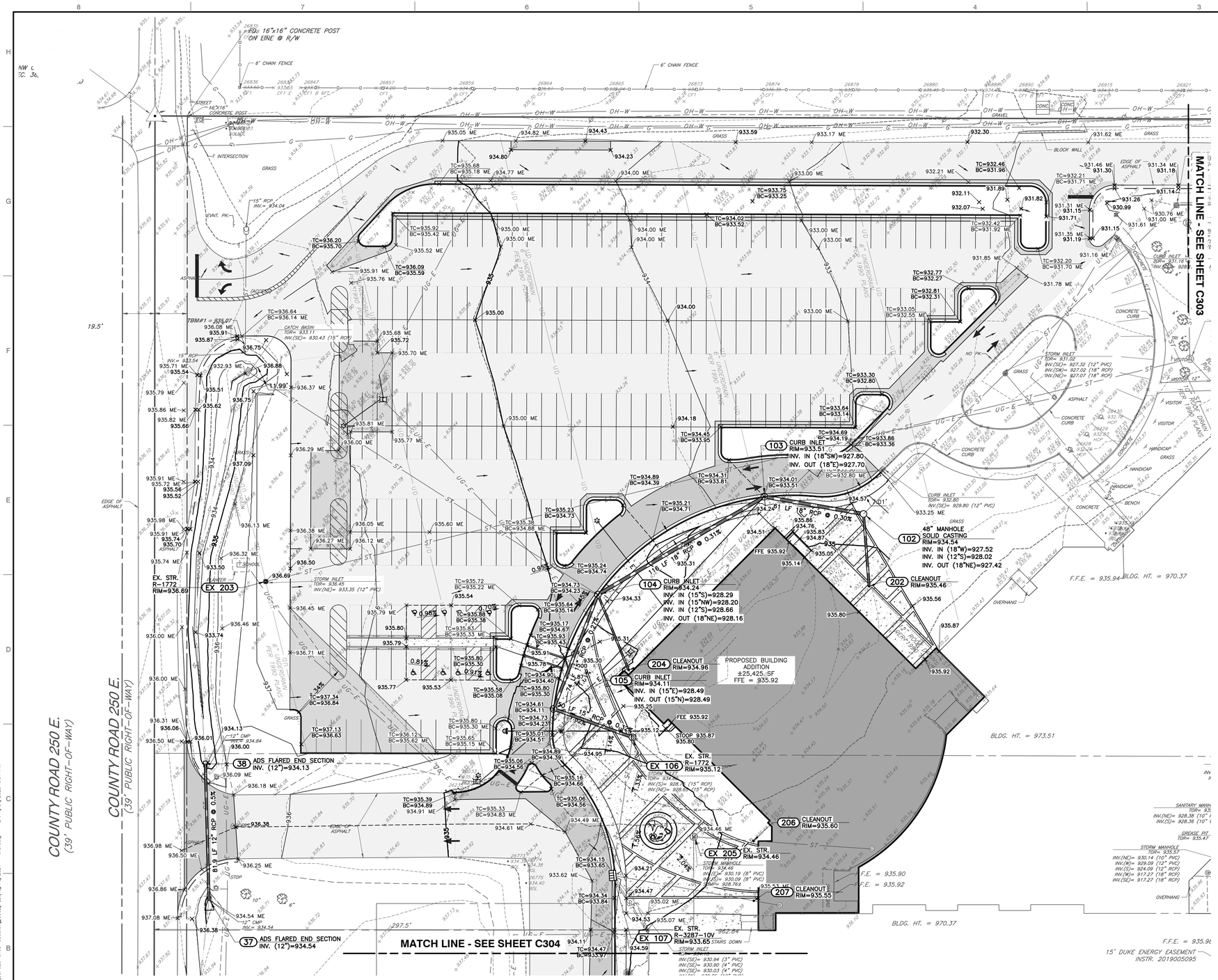

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- 798 — PROPOSED INTERMEDIATE CONTOUR
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SCALE IN FEET
0 30 60

Indiana 811
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TODD C. WALLACE
REGISTERED
Nº PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

CEC
Civil & Environmental Consultants, Inc.
11 Municipal Drive
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Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

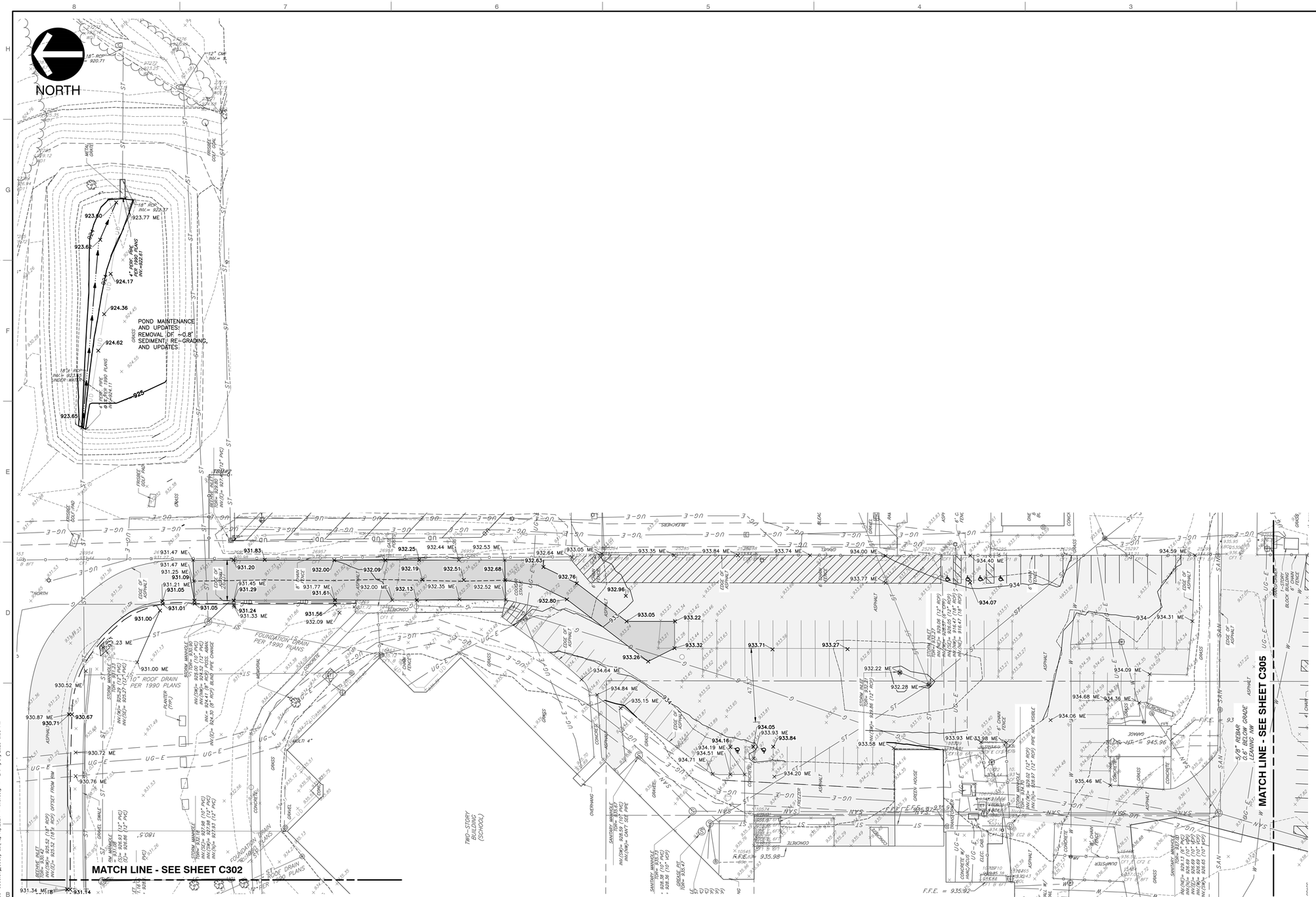
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

GRADING AND DRAINAGE PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: **C302**

P:\337-620\337-620\1-CIVIL\Dwg\C103-Construction Documents\337620-C103-C300.dwg[C302] LS:(12/10/2024 - tweiland) - LP: V:31/2025 6:34 PM



GRADING LEGEND:

800	PROPOSED INDEX CONTOUR
798	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED DRAINAGE SWALE
	PROPOSED GRADE BREAK
	PROPOSED STORM SEWER LINE
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DRAINAGE FLOW ARROW

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SCALE IN FEET
0 30 60

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WILLIAMS ARCHITECTS
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IMPROVEMENTS PROJECT
8869 County Rd 250 E.
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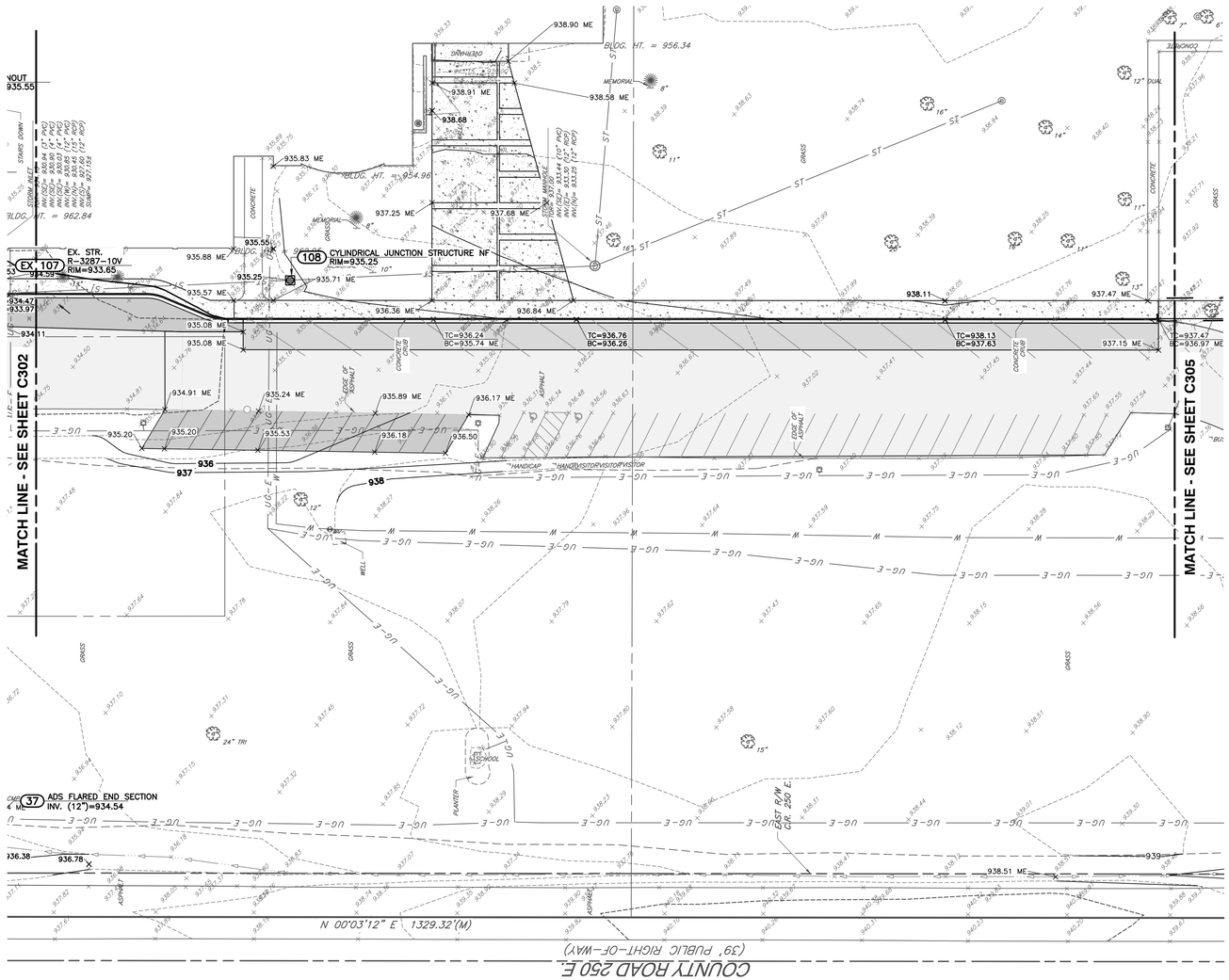
GRADING AND DRAINAGE PLAN

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.:
C303

P:\330-000\337-620\-CAD\Dwg\CV03-Construction Documents\337620-CV03-C303.dwg\C303 LS:(12/10/2024 - twallace) - LP: 1/31/2025 6:35 PM

NORTH



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GRADING AND DRAINAGE PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.:
C304

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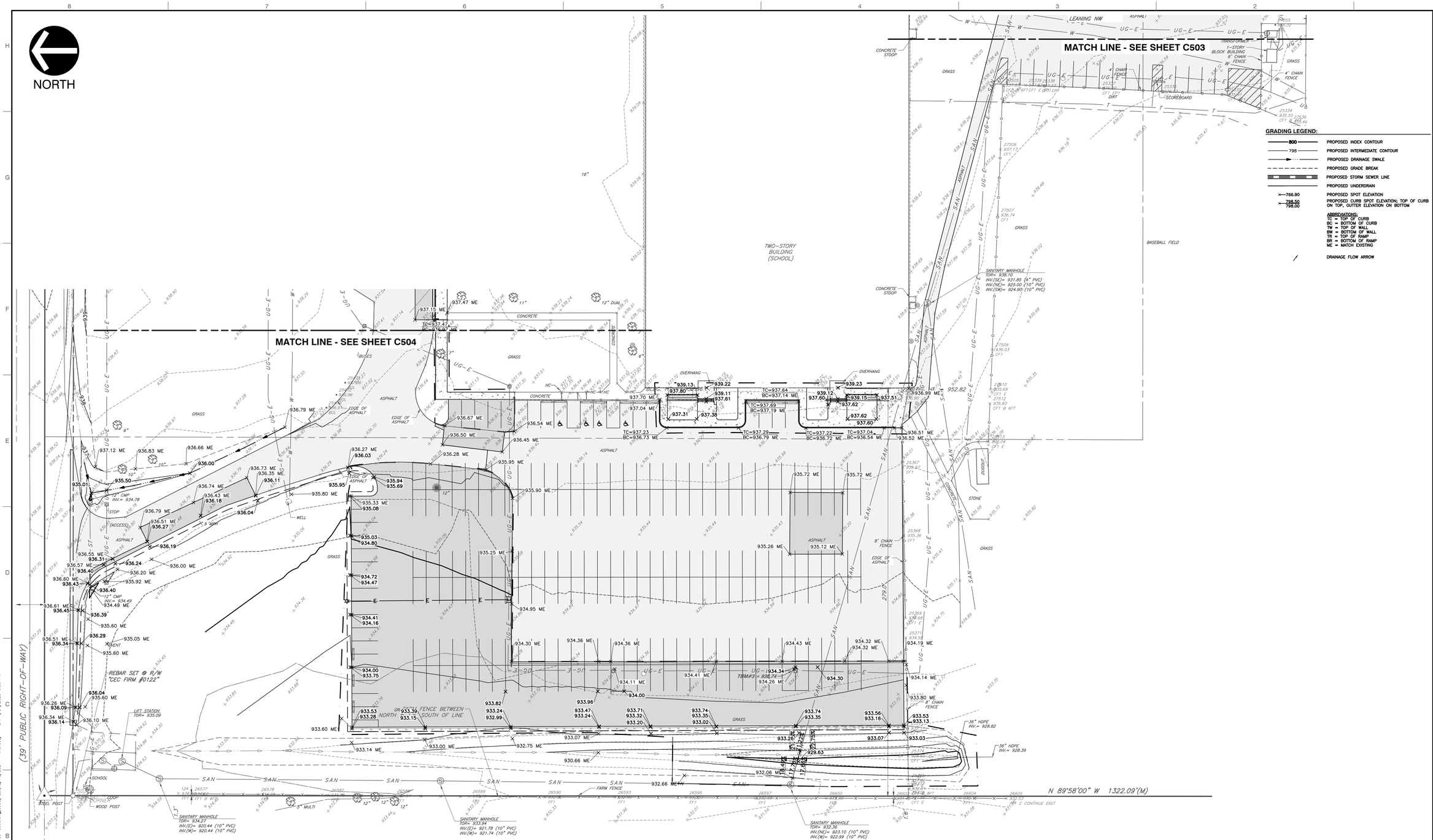

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UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 24032221896 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

SCALE IN FEET
0 30 60

Indiana 811 Know what's below. Call before you dig.

TODD C. WALLACE REGISTERED № PE11011395 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

Civil & Environmental Consultants, Inc.

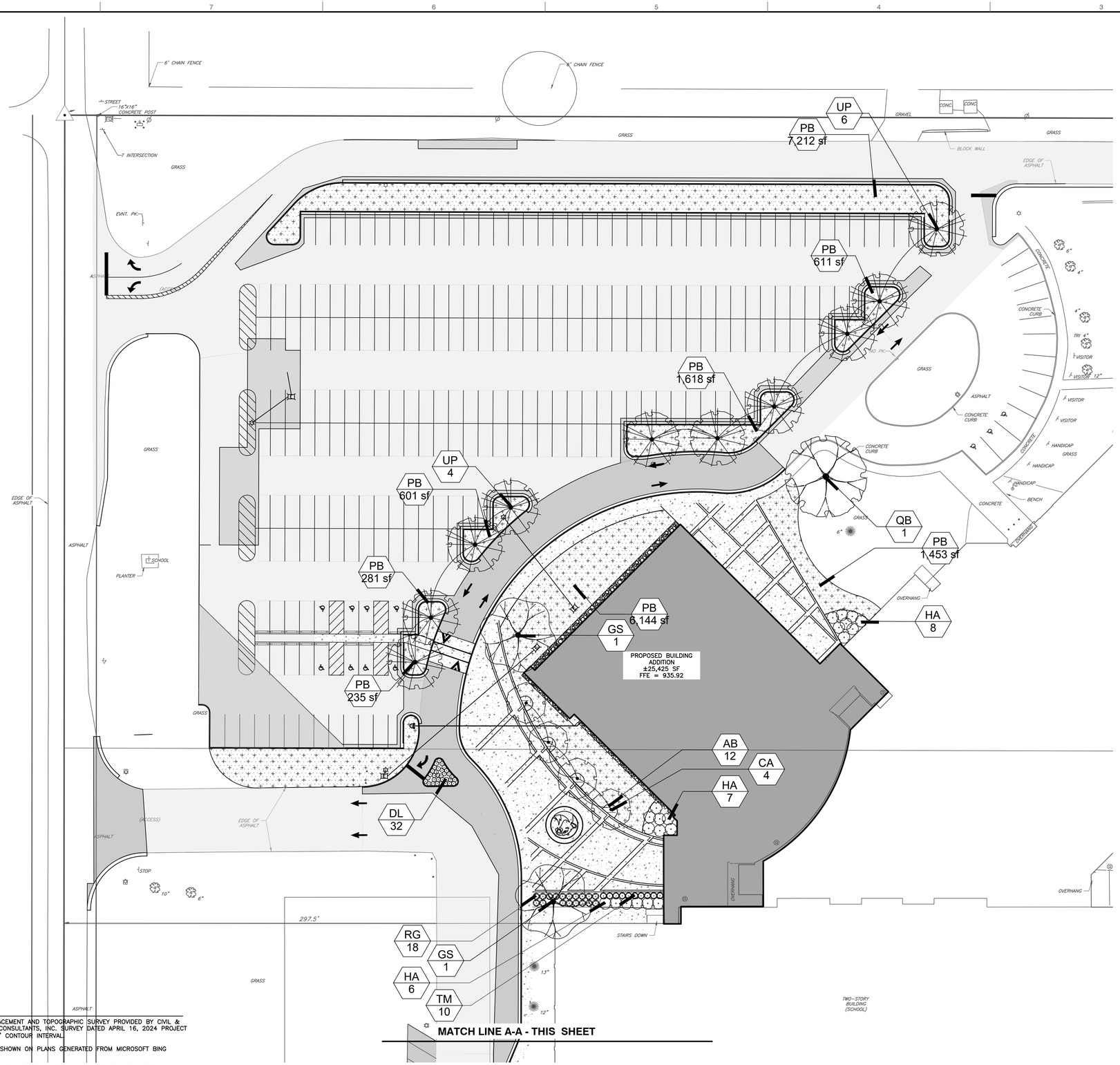
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

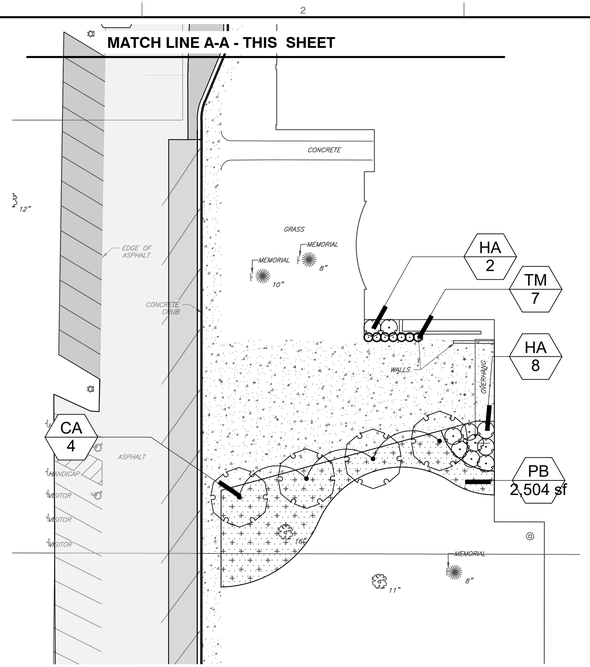
GRADING AND DRAINAGE PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	
	DRAFT

DRAWING NO.: C305

P:\130-000\337-620\\CADD\Dwg\C403-Construction Documents\337620-C403-C305.dwg[C305] LS(10/10/2024 - twilbourg) - LP: 1/31/2025 6:38 PM





REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

SCALE IN FEET
0 30 60

Indiana 811
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REGISTERED
Nº PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

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WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

LANDSCAPE PLAN

DATE:	JAN 31, 2025
DWG SCALE:	1"=30'
PROJECT NO:	337-620
APPROVED BY:	DRAFT
DRAWN BY:	EBI
CHECKED BY:	TCW

DRAWING NO.:
C700

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER
TREES					
	CA	8	CERCIS CANADENSIS 'APPALACHIAN RED' / APPALACHIAN RED EASTERN REDBUD	B&B	1.5" CAL.
	GS	2	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' / SHADEMASTER HONEY LOCUST	B&B	2.5" CAL.
	QB	1	QUERCUS BICOLOR / SWAMP WHITE OAK	NO. 5 CONT	
	UP	10	ULMUS AMERICANA 'PRINCETON' / PRINCETON AMERICAN ELM	B&B	2.5" CAL.

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	SPACING
SHRUBS					
	DL	32	DIERVILLA LONICERA / BUSH HONEYSUCKLE	NO. 3 CONT.	30" O.C.
	HA	31	HYDRANGEA QUERCIFOLIA 'ALICE' / ALICE OAKLEAF HYDRANGEA	NO. 5 CONT.	6' O.C.
	RG	18	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	NO. 3 CONT.	
	TM	17	TAXUS X MEDIA 'DENSIFORMIS' / DENSE SPREADING YEW	18"-24" HT.	4' O.C.

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPACING	SPACING
GROUND COVERS						
	AB	48	AMSONIA X 'BLUE ICE' / BLUE ICE BLUESTAR	NO. 1 CONT.		24" o.c.
	PB	23,393 SF	PAIRIE MIX / LOW PROFILE PRAIRIE MIX NO FORBS; SUPPLEMENT WITH (PB2) - ORANGE WILDFLOWER MIX; SEE NOTE NO. 1 BELOW.	SEED	41.69 PLS LBS / ACRE	
	PB2	23,393 SF	WILDFLOWER MIX / ORANGE WILFIRE MIX SUPPLEMENT TO (PB) - LOW PROFILE PRAIRIE; SEE NOTE NO. 2 BELOW.	SEED	35 LBS / ACRE	

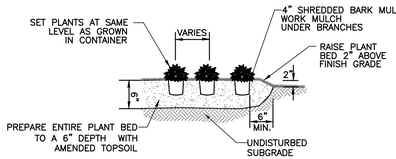
NOTES:
1. PB - LOW PROFILE PRAIRIE MIX - SOURCE; STANTEC NATIVE PLANT NURSERY
   www.stantec.com/en/services/native-plant-nursery Phone: (866) 782-6832
2. PB2 - WILDFLOWER MIX - SOURCE: www.americanmeadows.com Phone: (802) 227-7200

REFERENCE NOTES SCHEDULE

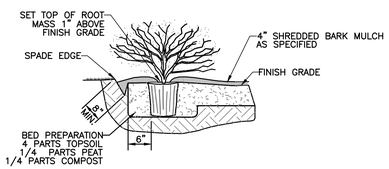
SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
PLANTING, LANDSCAPE				
	PA-101	L-STONE MULCH	4.19 CY	

GENERAL LANDSCAPE NOTES:

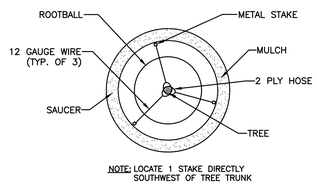
1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
3. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
4. NO CHANGES TO THE SITE LANDSCAPE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
5. CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUALITY AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON DRAWINGS.
6. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT "AMERICAN ASSOCIATION OF NURSERY STOCK. ANSI Z60.1-2004", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
7. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED.
8. ALL PLANTS SHALL BE PLANTED SO THAT THE ROOT CROWN IS PLANTED AT GRADE LEVEL.
9. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING. TWINE OR ROPE SHALL BE REMOVED FROM AROUND CROWN OF TRUNK TO PREVENT GIRDLING OF TREE OR SHRUB.
10. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
11. THE DAY PRIOR TO PLANTING, THE LOCATIONS OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY OWNER(S).
12. THE LANDSCAPE CONTRACTOR SHALL REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
13. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE (1) CALENDAR YEAR FROM THE TIME OF SUBSTANTIAL COMPLETION OF PROJECT.
14. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE PLANT SCHEDULE, THE PLANS SHALL TAKE PRECEDENCE.
15. CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
16. STAKES AND OR GUY WIRES SHALL BE REMOVED AFTER ONE (1) YEAR OF INSTALLATION.
17. ALL EXISTING LANDSCAPING SHALL BE MAINTAINED DURING CONSTRUCTION. ANY MATERIAL DEEMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT, WILL BE REPLACED EQUIVALENT IN SIZE AND SHAPE AT NO COST TO OWNER.
18. IF PLANT SPECIES SPECIFIED ARE FOUND TO BE UNAVAILABLE OR NOT IN SUFFICIENT QUANTITIES AT TIME OF PLANTING, THE CONTRACTOR MAY SUBSTITUTE SPECIES UPON WRITTEN APPROVAL BY LANDSCAPE ARCHITECT AND CITY OF INDIANAPOLIS.



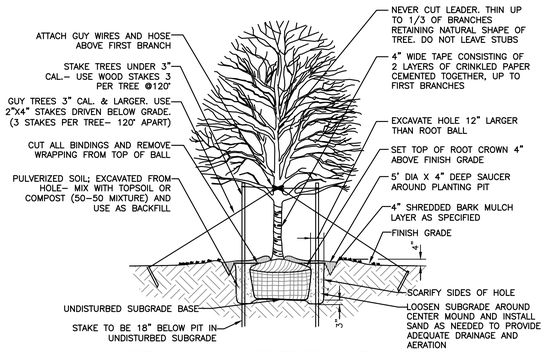
DETAIL 703 - ORNAMENTAL GRASS/ PERENNIAL AND GROUNDCOVER PLANTING DETAIL
NOT TO SCALE



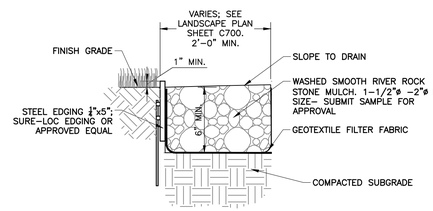
DETAIL 702- SHRUB/ SMALL TREE PLANTING DETAIL
NOT TO SCALE



DETAIL 701 - TREE STAKING DETAIL
NOT TO SCALE



DETAIL 700 - SHADE TREE PLANTING DETAIL
NOT TO SCALE



DETAIL # - STEEL EDGING DETAIL
NOT TO SCALE

SCALE IN FEET
0 30 60

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TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD		
NO	DATE	DESCRIPTION

11 Municipal Drive
Suite 300
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Ph: 317.570.8800
www.cecinc.com

Civil & Environmental Consultants, Inc.

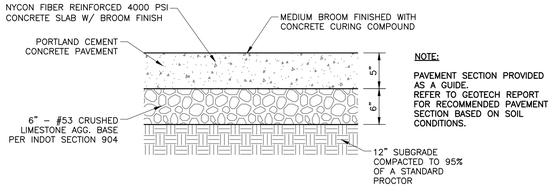
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

LANDSCAPE NOTES & DETAILS

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.:
C701

P:\320-000\337-620\-CADD\Dwg\CV03-Construction Documents\337620-CV03-C700.dwg\C701\ LS(1/31/2025 - ejones) - LP: 1/31/2025 6:37 PM

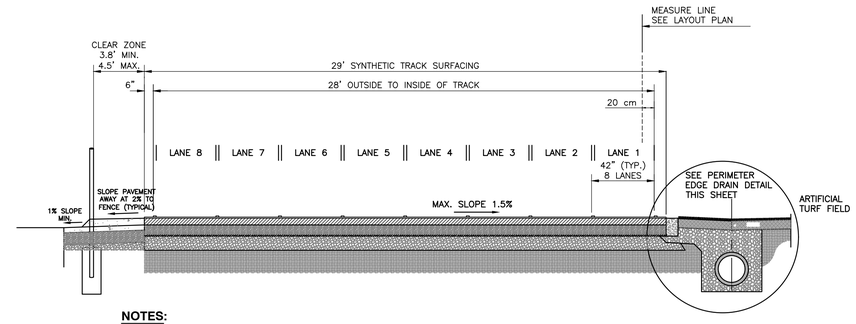


NOTE:

PAVEMENT SECTION PROVIDED AS A GUIDE. REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.

DETAIL 310 - CONCRETE PAVEMENT SECTION

NOT TO SCALE

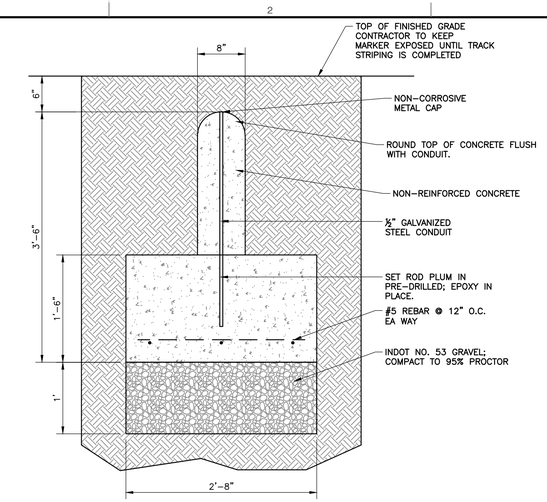


NOTES:

1. TRACK LAYOUT AND LANE MARKINGS AS PER ALL RECOMMENDATIONS & INFORMATION IN THE "TRACK CONSTRUCTION MANUAL" (LATEST EDITION) PUBLISHED BY THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS & THE AMERICAN SPORTS BUILDERS ASSOCIATION, RUNNING TRACKS CONSTRUCTION & MAINTENANCE MANUAL, CURRENT ADDITION.
2. PROVIDE COMPLETE STRIPING PACKAGE FOR 8–LANE 400M TRACK AS PER ASSOCIATIONS AND AS APPROVED BY THE OWNER.
3. FOR TYPICAL CONDITIONS: CONCRETE AT OUTSIDE EDGE OF TRACK TO SLOPE AWAY AT 2% SLOPE TO FENCE; PROVIDE A 45' TAPER AT OUTSIDE EDGE OF FENCE TO MEET EXISTING GRADE.
   FOR NON–TYPICAL CONDITIONS: RAMPS AT GATES & THE D–ZONE ALONG THE EAST SIDE OF TRACK; SEE GRADING PLAN; SHEET C300.

DETAIL 309 - TYPICAL TRACK SECTION

NOT TO SCALE



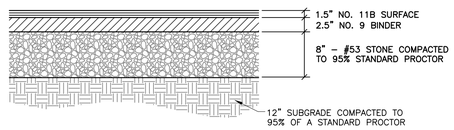
DETAIL 306 - RADIUS MARKER FOR TRACK LAYOUT

NOT TO SCALE

DETAILS 303-307 & 309 FOR REFERENCE ONLY.
PERFORMED UNDER SEPARATE CONTRACT.

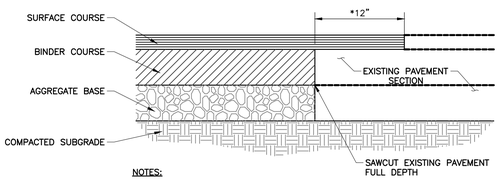
NOTE:

PAVEMENT SECTION PROVIDED AS A GUIDE. REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.



DETAIL 311 - LIGHT DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE

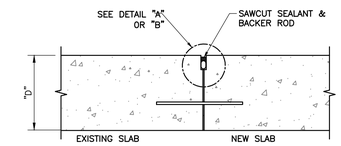


NOTES:

*MILL 1½" FOR 12" FROM SAW CUT LINE. TACK COAT ALL EXPOSED SURFACES, AND OVERLAY 1½" SURFACE COURSE CONTINUOUS WITH PROPOSED SURFACE.

DETAIL 312 - ASPHALT PAVEMENT EXPANSION DETAIL

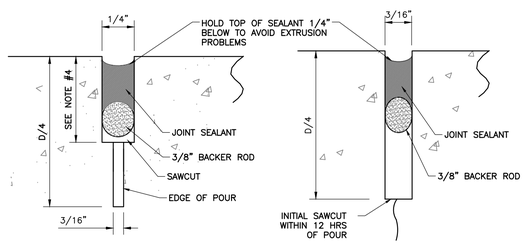
NOT TO SCALE



SECTION

DOWEL SIZE		
SLAB THICKNESS	DIA.	LENGTH
≤ 10"	1.25	18"
≥ 10.5"	1.5	18"

2'–0" SPACING BETWEEN DOWELS.

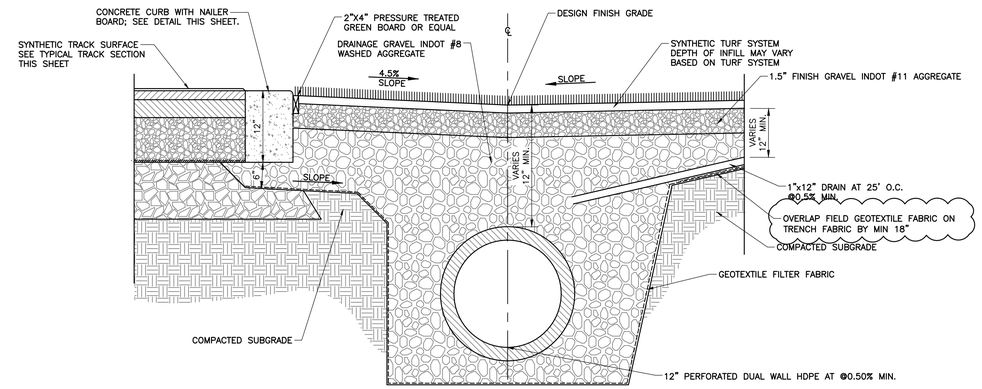


DETAIL "A" DETAIL "B"

NOTES:
1. DETAIL "A" SHOWS (2) SAWCUTS, THE INITIAL SAWCUT PROVIDES RELIEF OF INTERNAL STRESSES DUE TO SHRINKAGE. THE SECOND SAWCUT PROVIDES THE NECESSARY WIDTH TO ACHIEVE THE PROPER "SHAPE FACTOR" FOR THE JOINT SEALANT MATERIAL, THE SECOND SAWCUT ALSO CLEANS OUT ANY REMAINING DEBRIS AND CURING COMPOUND WHICH MUST BE REMOVED PRIOR TO INSTALLING THE BACKER ROD AND SEALANT.
2. SPACE CONTROL JOINTS 15'–0" O.C. MAX. EACH WAY.
3. DETAIL "B" SHOWS AN ALTERNATIVE JOINT DESIGN UTILIZING THE INITIAL SAWCUT FOR PLACING BACKER ROD AND SEALANT. RESERVOIR WALLS MUST BE FREE OF ANY DIRT, DUST OR CHEMICALS THAT CAN ADVERSELY EFFECT THE ABILITY OF THE SEALANT TO BOND TO THE RESERVOIR WALLS.
4. DIMENSIONS SHOWN WILL VARY. ACTUAL JOINT WIDTH MUST BE DETERMINED BY THE ANTICIPATED JOINT MOVEMENT. THE ACTUAL JOINT DEPTH IS DETERMINED BY THE RECOMMENDATIONS OF THE SEALANT MANUFACTURER.

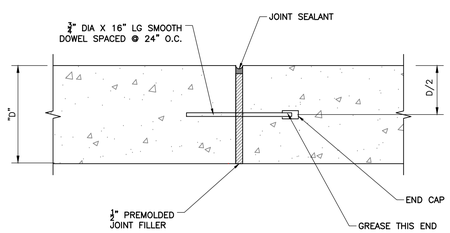
DETAIL 308 - CONCRETE PAVEMENT CONSTRUCTION JOINT DETAIL

NOT TO SCALE



DETAIL 307 - PERIMETER EDGE DRAINAGE

NOT TO SCALE

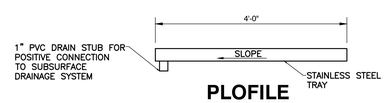


DOWEL SIZE		
SLAB THICKNESS	DIA.	LENGTH
≤ 10"	1.25	18"
≥ 10.5"	1.5	18"

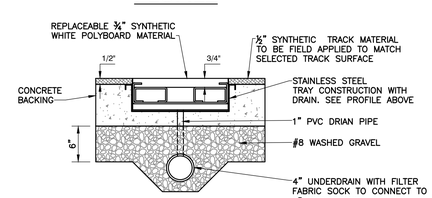
2'–0" SPACING BETWEEN DOWELS

DETAIL 313 - CONCRETE PAVEMENT EXPANSION JOINT DETAIL

NOT TO SCALE



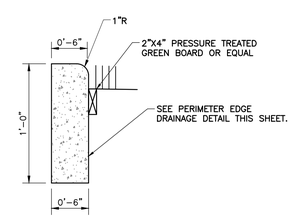
PLOFILE



SECTION

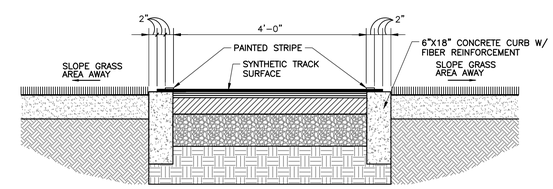
DETAIL 305 - 8" LONG/TRIPLE JUMP TAKE-OFF BOARD

NOT TO SCALE



DETAIL 304 - 6" FLUSH CONCRETE CURB WITH TURF NAILER

NOT TO SCALE



DETAIL 303 - LONG JUMP RUNWAY

NOT TO SCALE

SCALE IN FEET
30 60

REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY MUNCIE ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024. PROJECT NO. 337–620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

Indiana 811 — Know what's below. Call before you dig.

TODD C. WALLACE — REGISTERED — № PE11011395 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION
1		ADDENDUM #1

11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

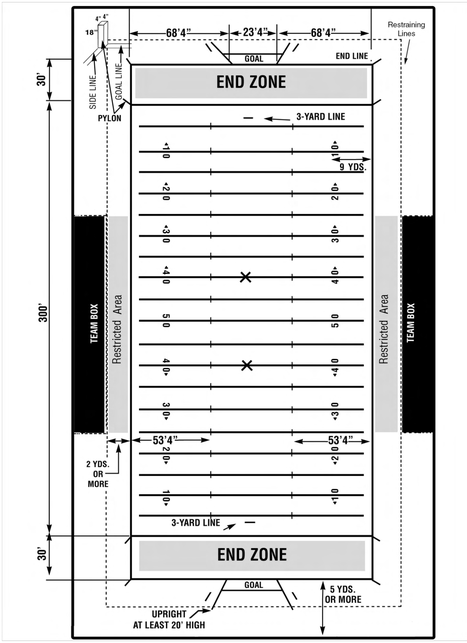
SITE DETAILS - ATHLETIC

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C800

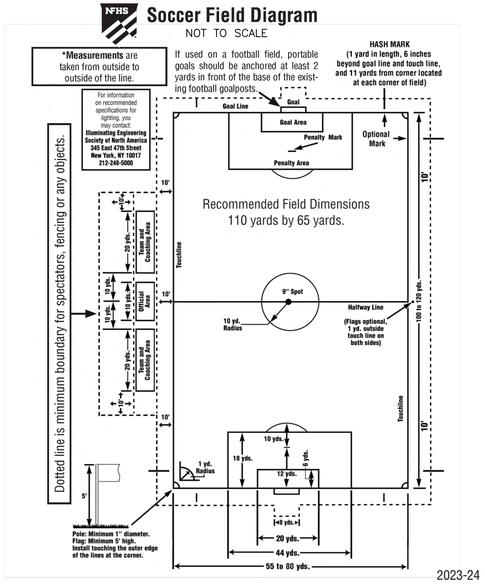
P:\337-620\337-620\Dwg\CV03-Construction Documents\337620-CV03-C800.dwg\C800\ LS:(12/12/2024 - Wallace) - LP: 1/31/2025 6:37 PM

Football Field Diagram
11-player Football Field
NOT TO SCALE



2024

Soccer Field Diagram
NOT TO SCALE



2023-24

NOTE: An engineered natural turf soccer field should have a minimum of one-and-one-half percent (1.5%) slope for fields which are surface drained. For natural turf fields with a sub-surface drain system the slope should be no less than one (1.0%) percent. For synthetic turf fields with a sub-surface drain system the slope should be no less than one half of one (0.5%) percent. Slope is measured from center to side. For consulting services, contact Design Architects, 816-842-5200.

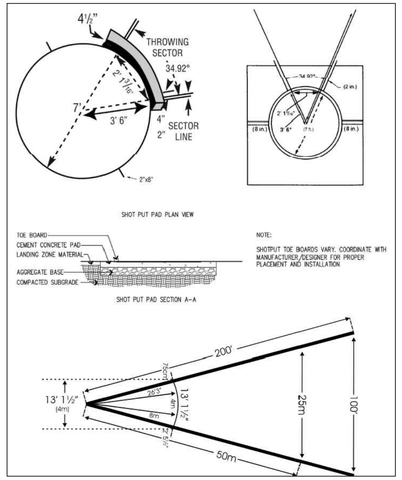
NOT TO SCALE

NOTES:
1. COLORS SHOWN ARE FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR COLOR MATCHING PURPOSES. PLEASE REFER TO YARN SAMPLES FOR ACTUAL COLORS.
2. DIMENSIONING VARIES WITH EACH SPORT. CONTRACTOR WILL DIMENSION EACH SPORT ACCORDING TO ITS WRITTEN REGULATIONS TO ENSURE INSTALLATION ACCURACY. DIMENSIONS MAY BE INDICATED AS SUCH: OUTSIDE–OUTSIDE (O/O), INSIDE–INSIDE (I/I), OUTSIDE–CENTER (O/C), CENTER–CENTER (C/C), ETC.

FOR REFERENCE ONLY
WORK ON THIS SHEET PERFORMED UNDER SEPARATE CONTRACT.

BASE GRAPHICS FOR BID, CONTRACTOR SHALL COORDINATE WITH OWNER ON FINAL COLOR SCHEME AND GRAPHICS LAYOUT FOR FIELD.

LEGEND: (LISTED IN ORDER OF DOMINANCE)
LOGO (NAVY, ORANGE, WHITE): 45' TALL
END ZONE LETTERS (NAVY, WHITE): 22' TALL
D-END LETTERS (NAVY, ORANGE, WHITE): 10'-23' TALL
TEAM BOX LETTERS (ORANGE, WHITE): 4'6" TALL
FOOTBALL (WHITE): 160' X 360' (I/I)
SOCCER (NAVY): 180' X 348'-4" (O/O)
TOTAL TURF AREA = 91,200 FT^2
TOTAL LONG JUMP TURF AREA = 8900 FT^2



DETAIL 314 - NFHS SHOT PUT DETAIL
NOT TO SCALE

THIS SHEET TO BE PRINTED IN COLOR FOR UNDERSTANDING

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TODD C. WALLACE — REGISTERED — № PE11011395 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

CEC
Civil & Environmental Consultants, Inc.
11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

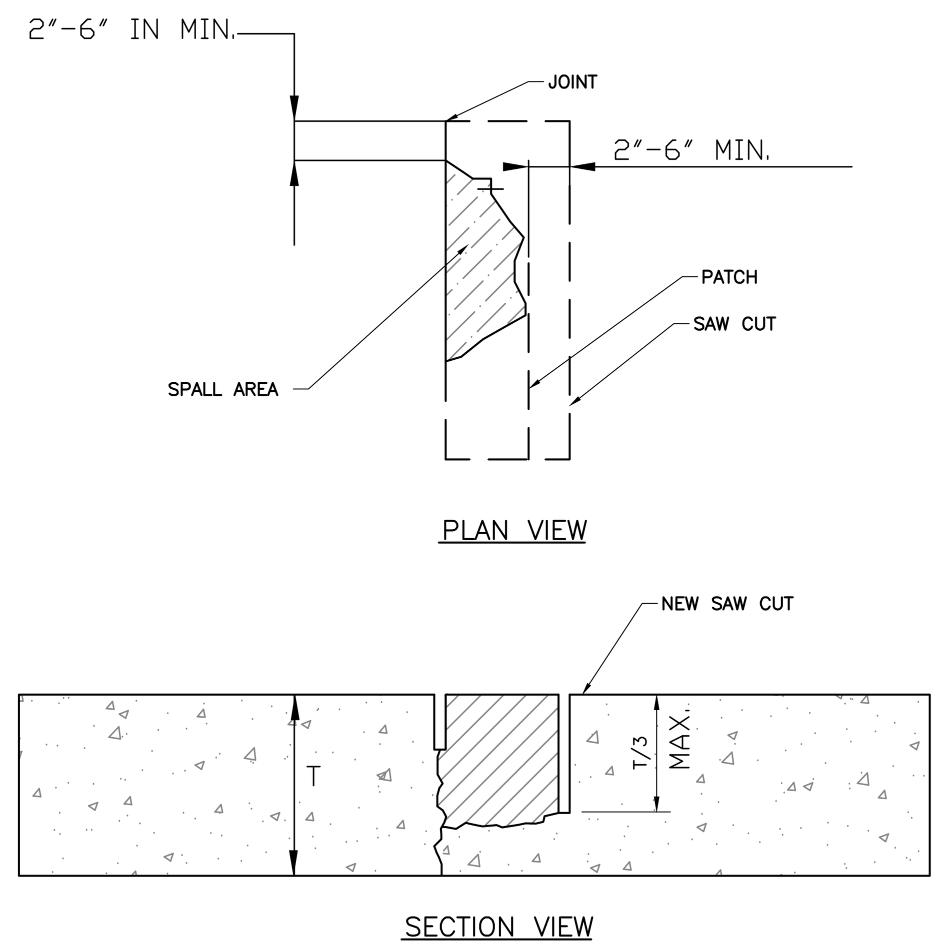
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DETAILS - ATHLETIC

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.: C801

P:\337-620\337-620\CADD\Dwg\CV03-Construction Documents\337620-CV03-C801.dwg\C801\ LS:12/12/2024 - Wallace\ - LP: 1/31/2025 6:37 PM



DETAIL 208 - CONCRETE PAVING REPAIR BOUNDARY DETAIL
NOT TO SCALE

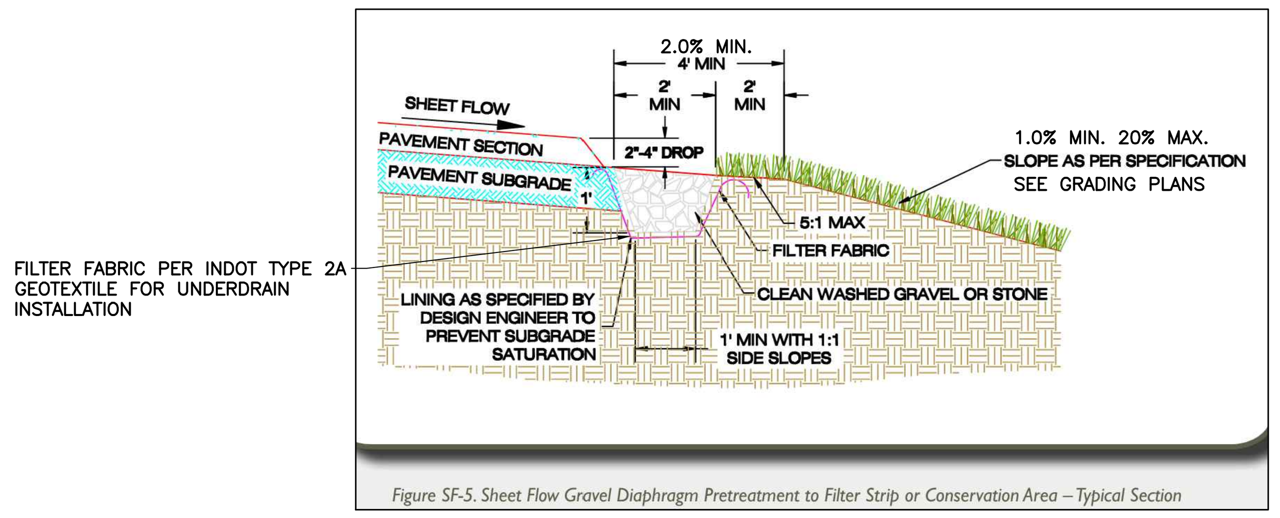
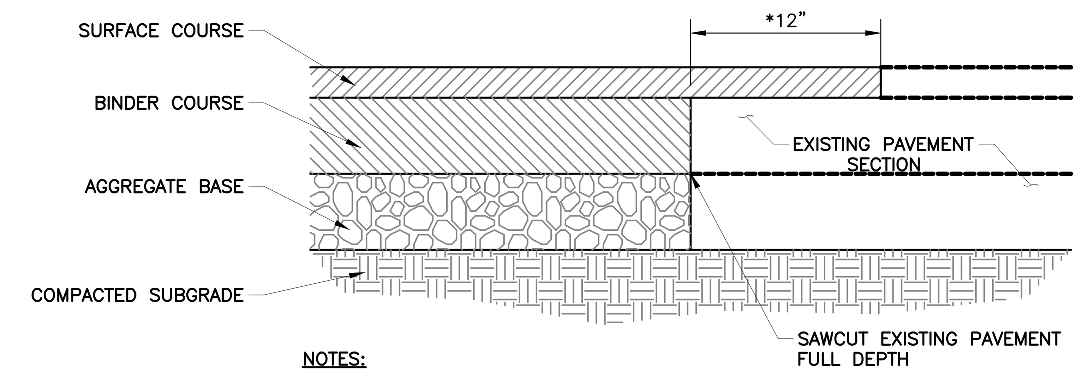


Figure SF-5. Sheet Flow Gravel Diaphragm Pretreatment to Filter Strip or Conservation Area – Typical Section

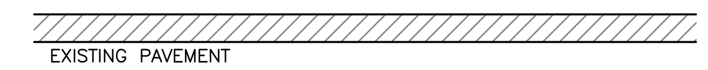
DETAIL 206 - GRAVEL DIAPHRAGM PRETREATMENT DETAIL
NOT TO SCALE



NOTES:

*MILL 1½" FOR 12" FROM SAW CUT LINE. TACK COAT ALL EXPOSED SURFACES, AND OVERLAY 1½" SURFACE COURSE CONTINUOUS WITH PROPOSED SURFACE.

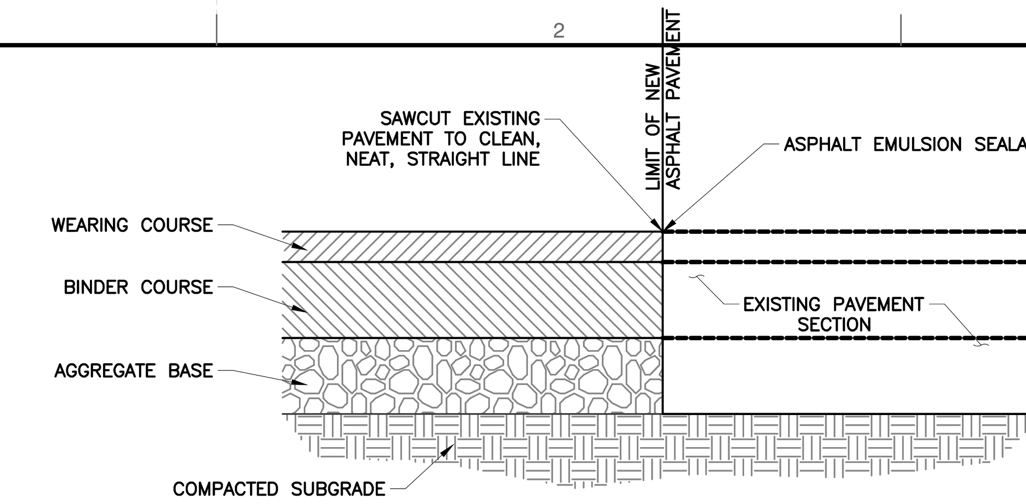
DETAIL 204 - LAP JOINT DETAIL
NOT TO SCALE



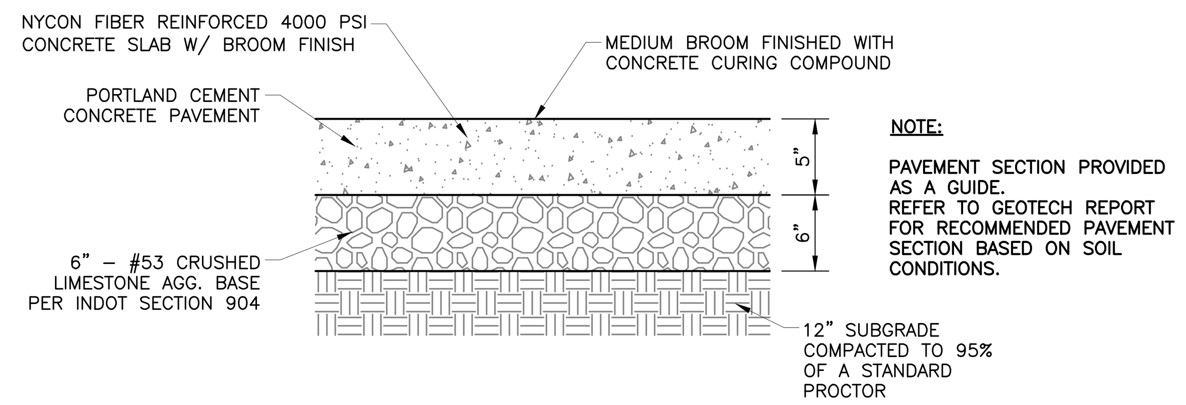
NOTE:

1. CONTRACTOR TO PATCH AND REPAIR EXISTING PAVEMENT AND SUBGRADE PRIOR TO RESURFACING IN ACCORDANCE WITH ASPHALT PAVEMENT SECTION DETAIL.

DETAIL 202 - EXISTING PAVEMENT RESURFACING AND REPAIR
NOT TO SCALE



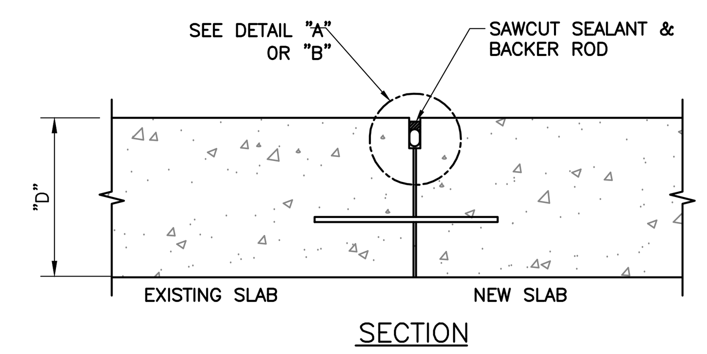
DETAIL 201 - PAVEMENT SAWCUT
NOT TO SCALE



NOTE:

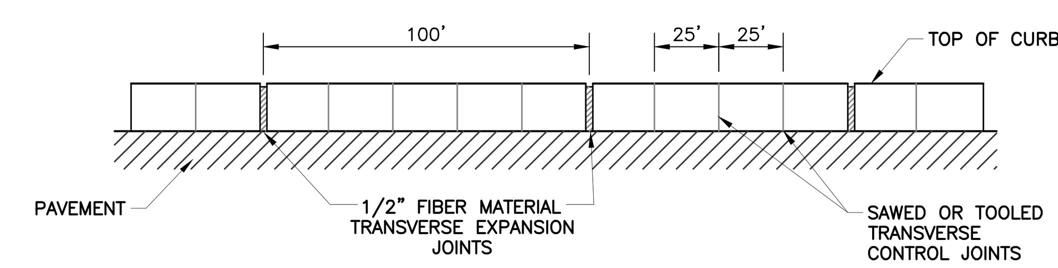
PAVEMENT SECTION PROVIDED AS A GUIDE.
REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.

DETAIL 207 - CONCRETE PAVEMENT SECTION
NOT TO SCALE

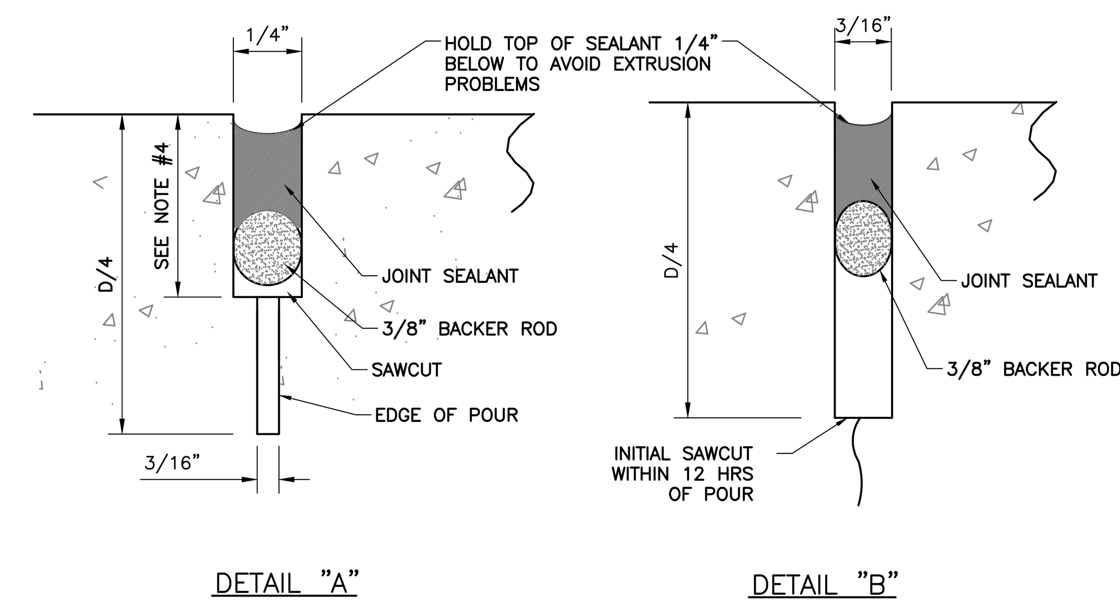


DOWEL SIZE		
SLAB THICKNESS	DIA.	LENGTH
≤ 10'	1.25	18'
≥ 10.5'	1.5	18'

2'–0" SPACING BETWEEN DOWELS.

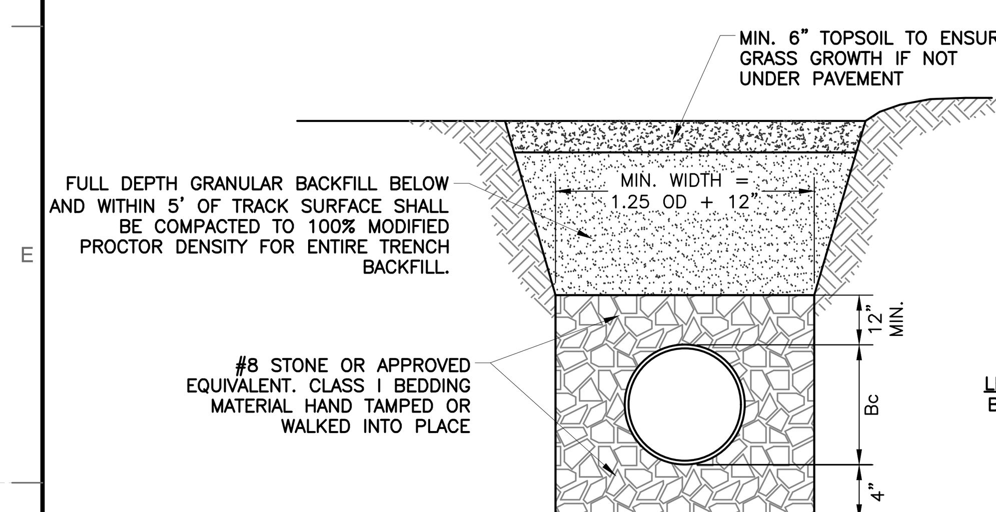


DETAIL 205 - CURB JOINT DETAIL
NOT TO SCALE



NOTES:
1. DETAIL "A" SHOWS (2) SAWCUTS, THE INITIAL SAWCUT PROVIDES RELIEF OF INTERNAL STRESSES DUE TO SHRINKAGE. THE SECOND SAWCUT PROVIDES THE NECESSARY WIDTH TO ACHIEVE THE PROPER "SHAPE FACTOR" FOR THE JOINT SEALANT MATERIAL, THE SECOND SAWCUT ALSO CLEANS OUT ANY REMAINING DEBRIS AND CURING COMPOUND WHICH MUST BE REMOVED PRIOR TO INSTALLING THE BACKER ROD AND SEALANT.
2. SPACE CONTROL JOINTS 15'–0" O.C. MAX. EACH WAY.
3. DETAIL "B" SHOWS AN ALTERNATIVE JOINT DESIGN UTILIZING THE INITIAL SAWCUT FOR PLACING BACKER ROD AND SEALANT. RESERVOIR WALLS MUST BE FREE OF ANY DIRT, DUST OR CHEMICALS THAT CAN ADVERSELY EFFECT THE ABILITY OF THE SEALANT TO BOND TO THE RESERVOIR WALLS.
4. DIMENSIONS SHOWN WILL VARY. ACTUAL JOINT WIDTH MUST BE DETERMINED BY THE ANTICIPATED JOINT MOVEMENT. THE ACTUAL JOINT DEPTH IS DETERMINED BY THE RECOMMENDATIONS OF THE SEALANT MANUFACTURER.

DETAIL 202 - CONCRETE PAVEMENT CONSTRUCTION JOINT DETAIL
NOT TO SCALE



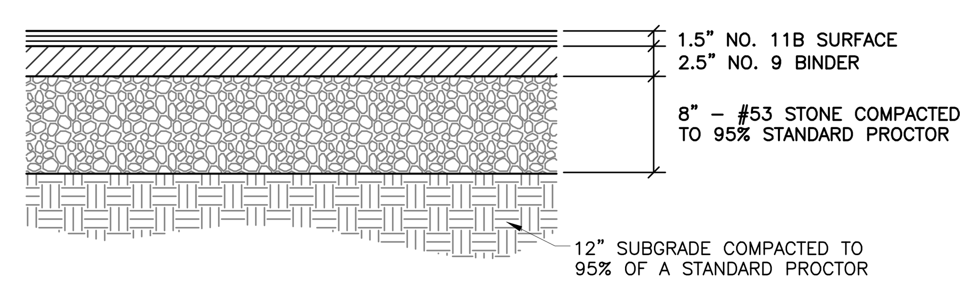
LEGEND
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTES:
1. ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
2. A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

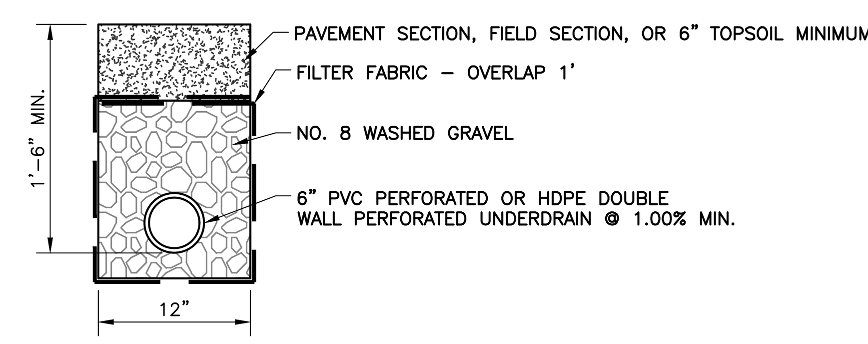
DETAIL 209 - PLASTIC PIPE (PVC & HDPE) BEDDING/TRENCH DETAIL
NOT TO SCALE

NOTE:

PAVEMENT SECTION PROVIDED AS A GUIDE.
REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.



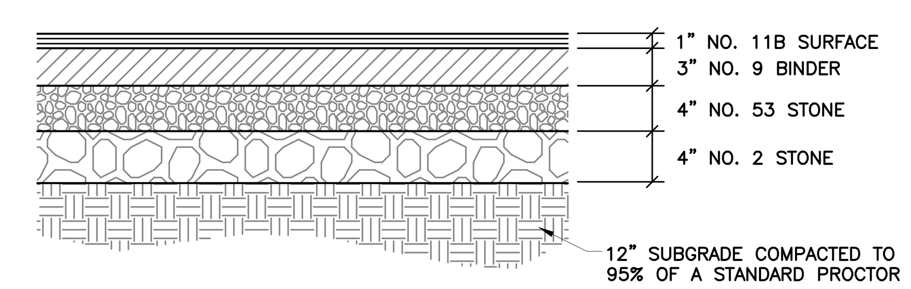
DETAIL 211 - LIGHT DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE



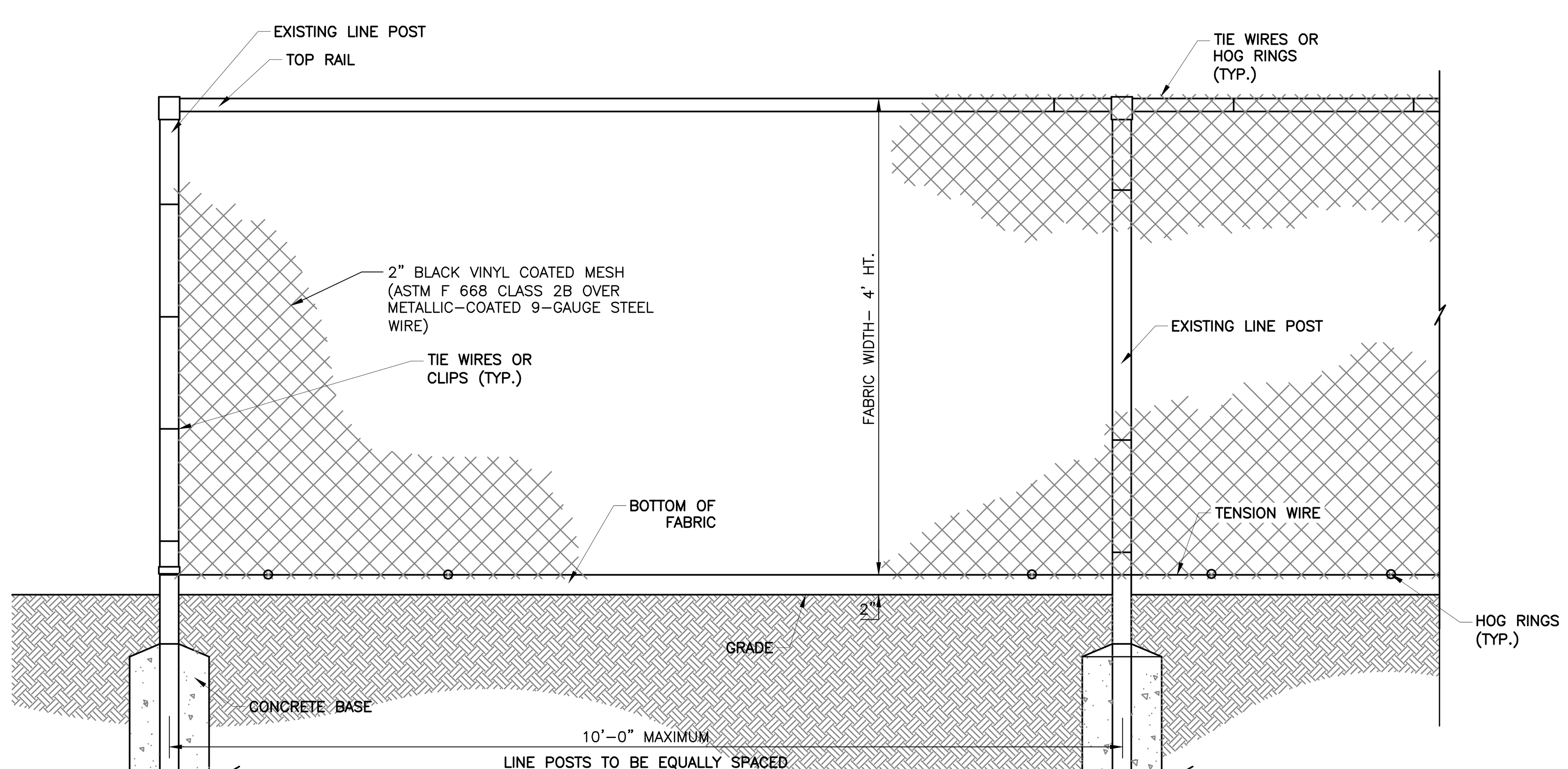
DETAIL 210 - UNDERDRAIN
NOT TO SCALE

NOTE:

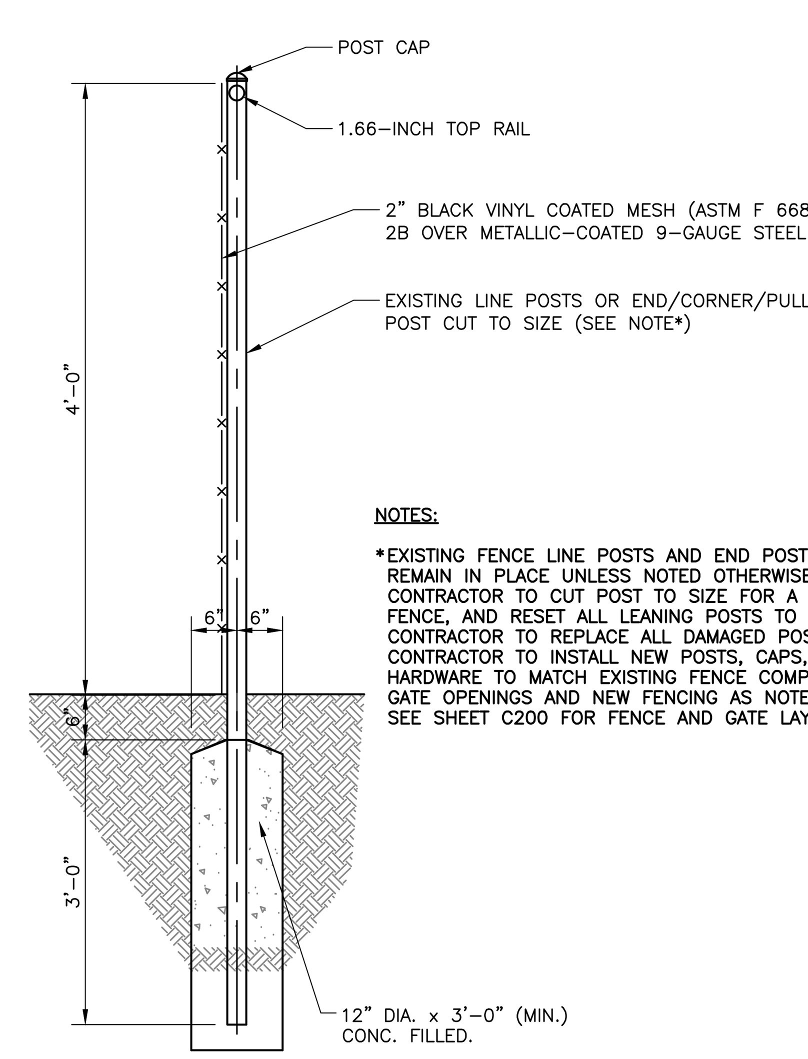
PAVEMENT SECTION PROVIDED AS A GUIDE.
REFER TO GEOTECH REPORT FOR RECOMMENDED PAVEMENT SECTION BASED ON SOIL CONDITIONS.



DETAIL 212 - HEAVY DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE

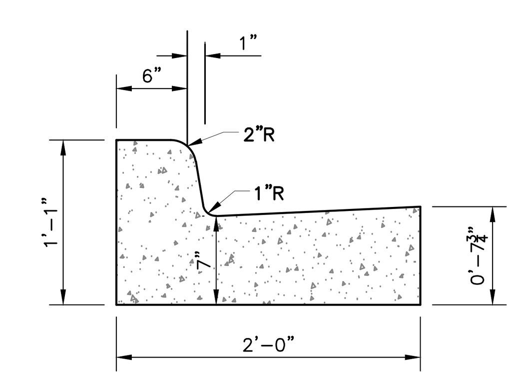


DETAIL 213 - 4' CHAIN LINK FENCE
NOT TO SCALE

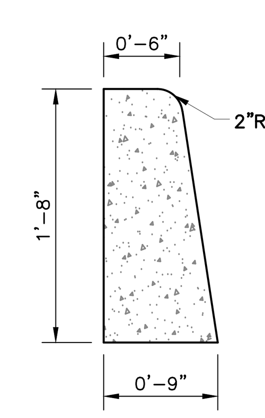


NOTES:

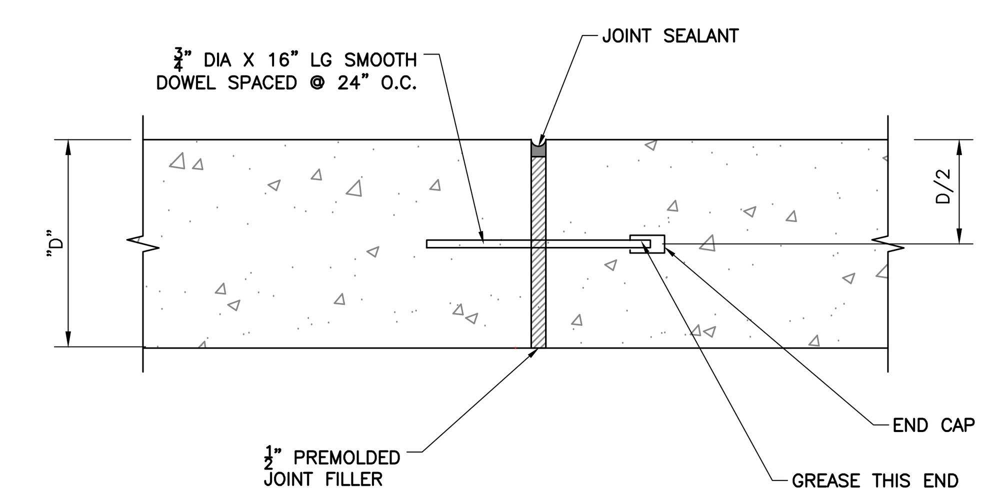
*EXISTING FENCE LINE POSTS AND END POSTS ARE TO REMAIN IN PLACE UNLESS NOTED OTHERWISE ON PLANS. CONTRACTOR TO CUT POST TO SIZE FOR A 4 FT HEIGHT FENCE, AND RESET ALL LEANING POSTS TO PLUMB. CONTRACTOR TO REPLACE ALL DAMAGED POSTS. CONTRACTOR TO INSTALL NEW POSTS, CAPS, GATES, AND HARDWARE TO MATCH EXISTING FENCE COMPONENTS FOR GATE OPENINGS AND NEW FENCING AS NOTED ON PLANS. SEE SHEET C200 FOR FENCE AND GATE LAYOUT.



DETAIL 214 - MODIFIED COMBINED CONCRETE CURB AND GUTTER
NOT TO SCALE



DETAIL 215 - 20" STRAIGHT CONCRETE CURB
NOT TO SCALE



DOWEL SIZE		
SLAB THICKNESS	DIA.	LENGTH
≤ 10'	1.25	18'
≥ 10.5'	1.5	18'

2'–0' SPACING BETWEEN DOWELS

DETAIL 203 - CONCRETE PAVEMENT EXPANSION JOINT DETAIL
NOT TO SCALE

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№ PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

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Civil & Environmental Consultants, Inc.
11 Municipal Drive
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Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

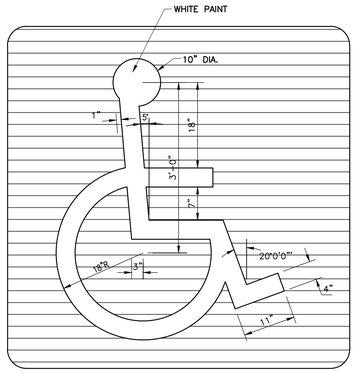
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DETAILS

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:	337-620		
APPROVED BY:	DRAFT		

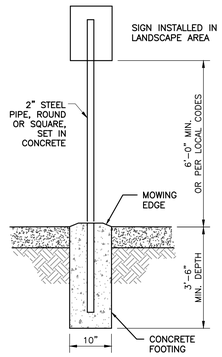
DRAWING NO.:
C802

P:\330-000\337-620\-CADD\Dwg\CV03-Construction Documents\337620-CV03-C800.dwg{C802} LS:(12/10/2024 - twallace) - LP: 1/31/2025 6:38 PM

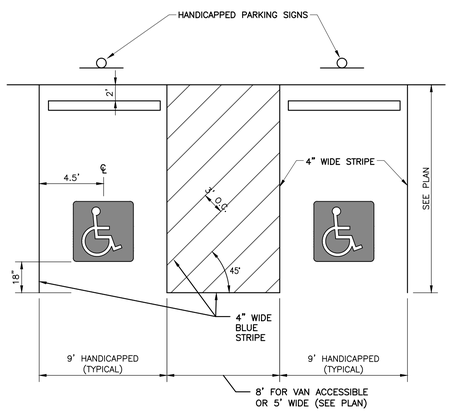


NOTE: ALL STRIPES TO BE 4" PAINTED WHITE

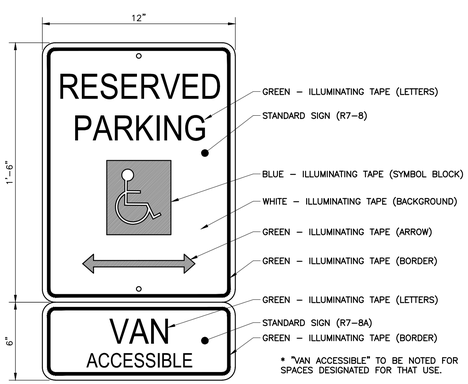
200 C200 **PAINTED ADA ACCESSIBLE SYMBOL DETAIL**
NOT TO SCALE



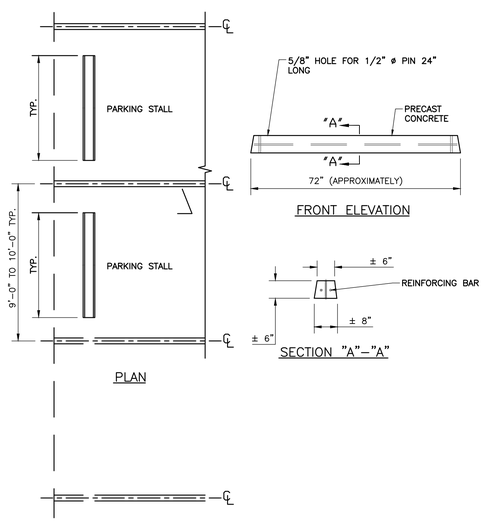
201 C200 **SIGNAGE DETAIL**
NOT TO SCALE



209 C200 **ADA ACCESSIBLE PARKING STALLS**
NOT TO SCALE



211 C200 **ADA ACCESSIBLE PARKING SIGN DETAIL**
NOT TO SCALE

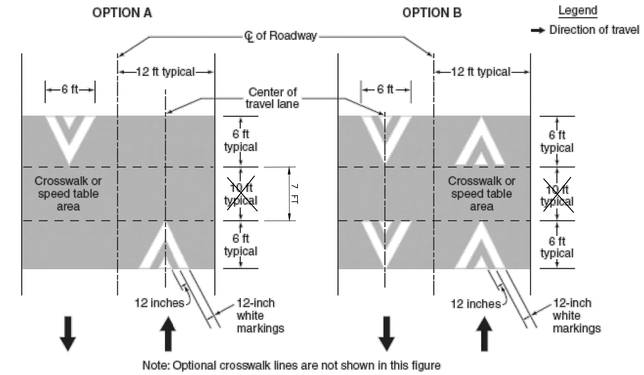


NOTES:
1. IF POSITIONED AT SIDEWALK, WHEELSTOP SHOULD NOT BE CENTERED AS SHOWN
2. FOR PERIMETER NON-ACCESS POINTS ONLY

212 C200 **WHEELSTOP DETAIL**
NOT TO SCALE

2011 IMUTCD Page 401

Figure 3B-30. Pavement Markings for Speed Tables or Speed Humps with Crosswalks



NOTES:
1. CROSSWALK WIDTH FOR THIS PROJECT IS 7 FT.
2. USE 6" THICK WHITE THERMOPLASTIC CROSSWALK LINES

214 C200 **SPEED TABLE MARKINGS**
NOT TO SCALE

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TODD C. WALLACE
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Nº PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

CEC
Civil & Environmental Consultants, Inc.
11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

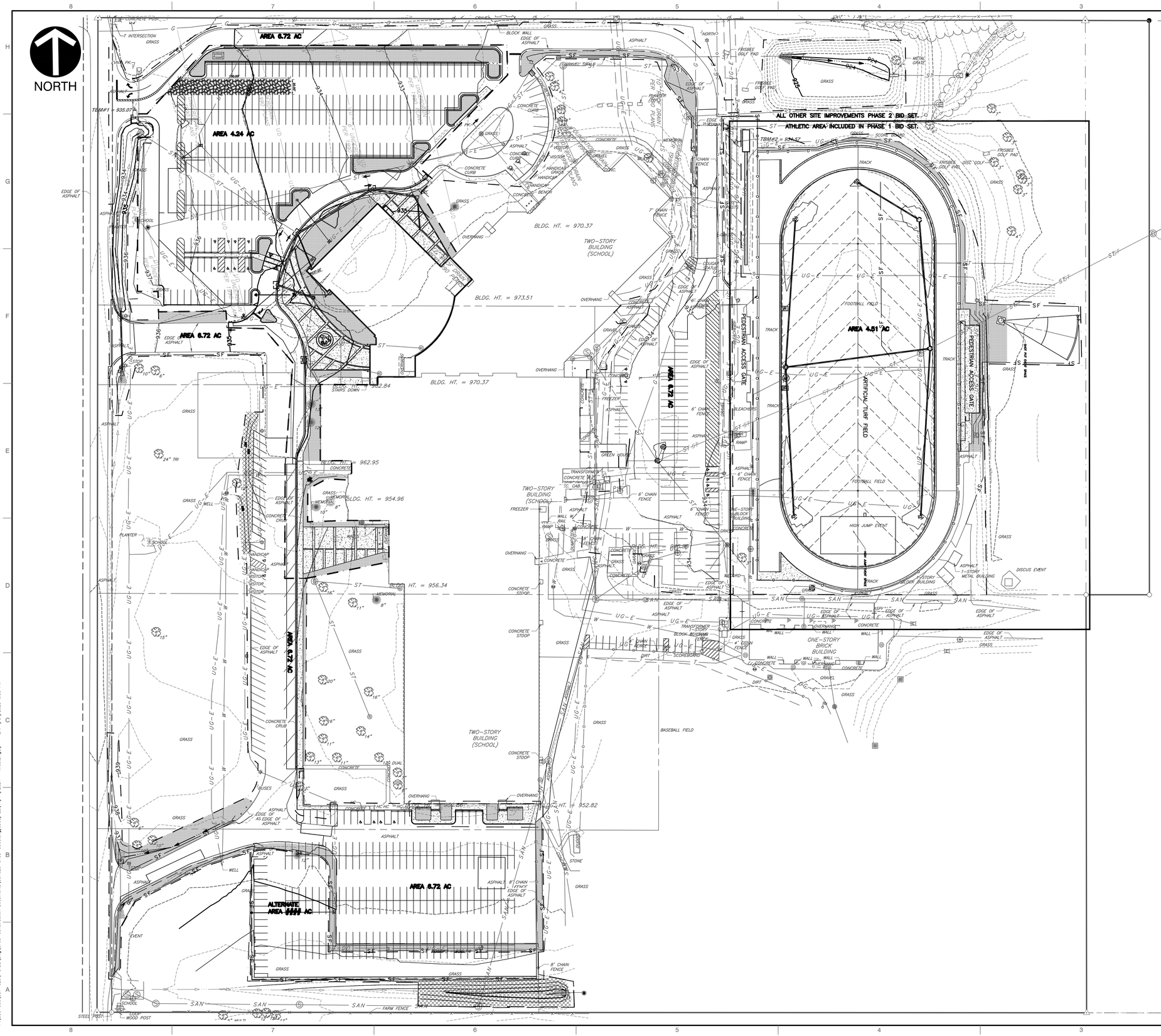
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

SITE DETAILS

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.:
C803

P:\330-000\337-620\-CADD\Dwg\CV03-Construction Documents\337620-CV03-C800.dwg[C803] LS:(12/10/2024 - twallace) - LP: 1/31/2025 6:38 PM



PROPOSED LEGEND:

- PROPOSED CONSTRUCTION ENTRANCE
- PERMANENT/ TEMPORARY SEEDING AREAS
- GRAVEL STAGING AREA
- EROSION CONTROL BLANKET W/ GRASS SEED
- PROPOSED LIMITS OF MAINTENANCE
- PROPOSED LIMITS OF FIELDHOUSE DISTURBANCE
- PROPOSED LIMITS OF ALTERNATE DISTURBANCE
- SF — PROPOSED SILT FENCE
- FS — PROPOSED FILTER SOCK
- PROPOSED INLET PROTECTION
- PROPOSED CONCRETE WASHOUT
- MAJOR STORMWATER DISCHARGE POINT
- RIPRAP APRON

SCALE IN FEET

0 60 120

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TODD C. WALLACE
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Nº PE11011395
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PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

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Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com

CEC
Civil & Environmental Consultants, Inc.

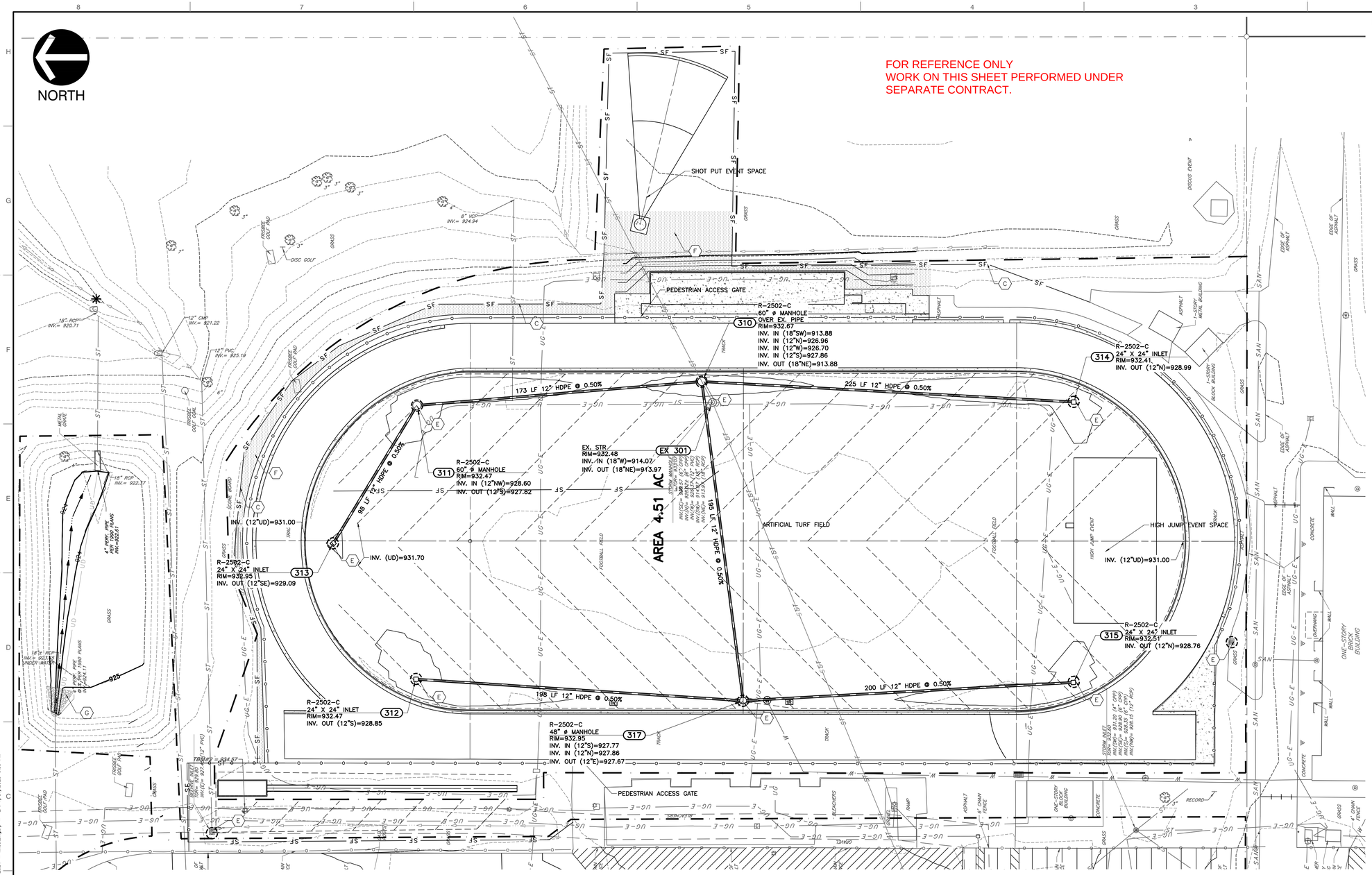
WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

OVERALL STORMWATER POLLUTION PREVENTION PLAN

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:			337-620
APPROVED BY:			DRAFT

DRAWING NO.:
C900

P:\330-000\337-620\-CADD\Dwg\CV03-Construction Documents\337620-CV03-C900.dwg(C900) LS:(11/11/2024 - khoutzinger) - LP: 1/31/2025 6:39 PM



PROPOSED LEGEND:

- PROPOSED CONSTRUCTION ENTRANCE
- PERMANENT/ TEMPORARY SEEDING AREAS
- GRAVEL STAGING AREA
- EROSION CONTROL BLANKET W/ GRASS SEED
- PROPOSED LIMITS OF MAINTENANCE
- PROPOSED LIMITS OF FIELDHOUSE DISTURBANCE
- PROPOSED LIMITS OF ALTERNATE DISTURBANCE
- SF — PROPOSED SILT FENCE
- FS — PROPOSED FILTER SOCK
- PROPOSED INLET PROTECTION
- PROPOSED CONCRETE WASHOUT
- MAJOR STORMWATER DISCHARGE POINT
- RIPRAP APRON

KEY NOTES:

- (A) TEMPORARY CONSTRUCTION ENTRANCE; SEE DETAIL ON SHEET C906
- (B) TEMPORARY CONCRETE WASHOUT; SEE DETAIL ON SHEET C906
- (C) SILT FENCE; SEE DETAIL ON SHEET C906
- (D) FILTER SOCK; SEE DETAIL ON SHEET C906
- (E) INLET PROTECTION; SEE DETAIL ON SHEET
- (F) TEMPORARY OR PERMANENT SEEDING FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE
- (G) RIPRAP APRON; SEE DETAIL ON SHEET C906

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2403221896 WERE ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

SCALE IN FEET
0 30 60

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STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

11 Municipal Drive
Suite 300
Fishers, IN 46038
Ph: 317.570.8800
www.cecinc.com
Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

STORMWATER POLLUTION PREVENTION PLAN

DATE:	JAN 31, 2025
DRAWN BY:	EBI
DWG SCALE:	1"=30'
CHECKED BY:	TCW
PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: C901

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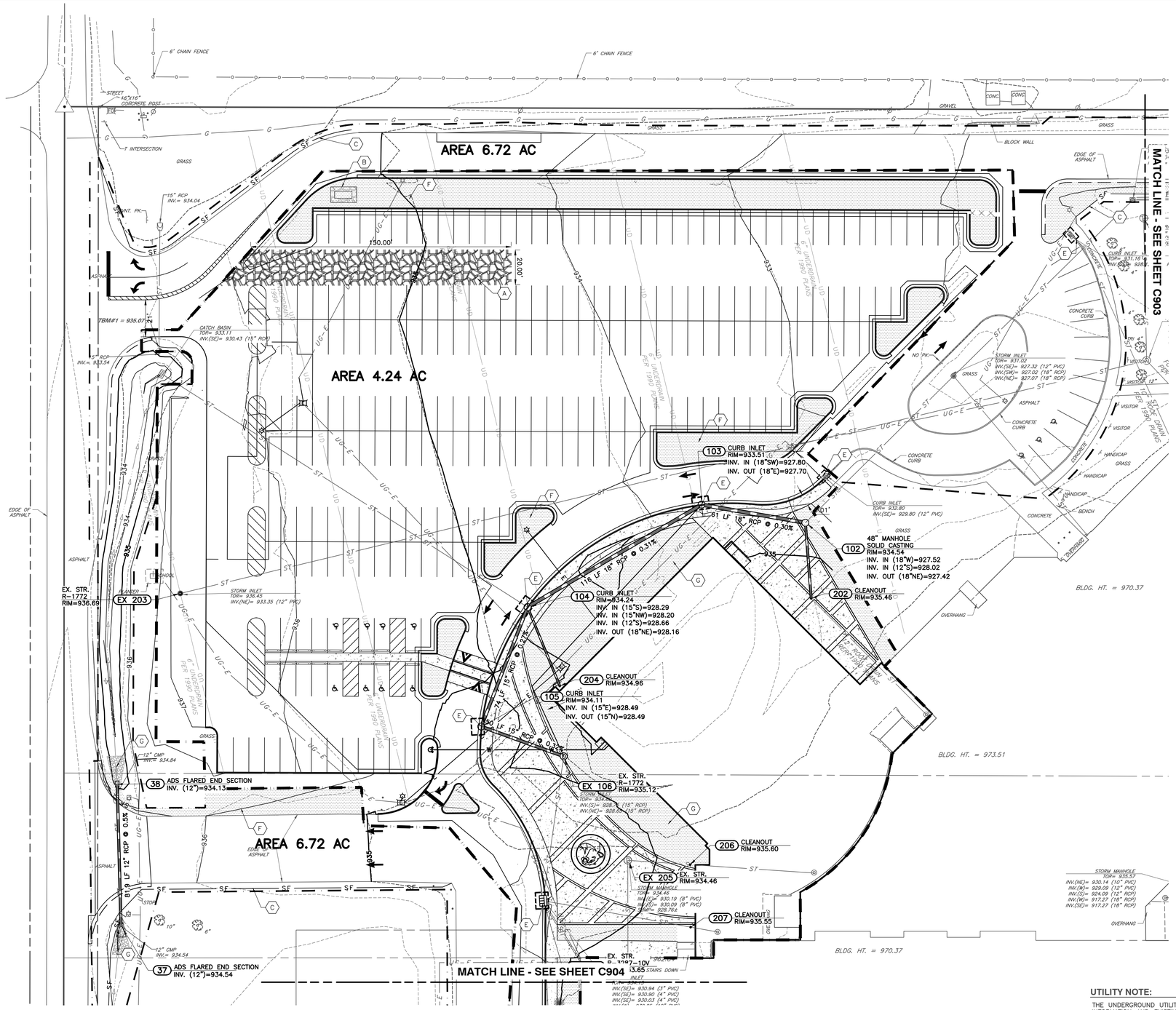

PROPOSED LEGEND:

- PROPOSED CONSTRUCTION ENTRANCE
- PERMANENT/ TEMPORARY SEEDING AREAS
- GRAVEL STAGING AREA
- EROSION CONTROL BLANKET W/ GRASS SEED
- PROPOSED LIMITS OF MAINTENANCE
- PROPOSED LIMITS OF FIELDHOUSE DISTURBANCE
- PROPOSED LIMITS OF ALTERNATE DISTURBANCE
- SF — PROPOSED SILT FENCE
- FS — PROPOSED FILTER SOCK
- PROPOSED INLET PROTECTION
- PROPOSED CONCRETE WASHOUT
- MAJOR STORMWATER DISCHARGE POINT
- RIPRAP APRON

KEY NOTES:

- (A) TEMPORARY CONSTRUCTION ENTRANCE; SEE DETAIL ON SHEET C906
- (B) TEMPORARY CONCRETE WASHOUT; SEE DETAIL ON SHEET C906
- (C) SILT FENCE; SEE DETAIL ON SHEET C906
- (D) FILTER SOCK; SEE DETAIL ON SHEET C906
- (E) INLET PROTECTION; SEE DETAIL ON SHEET
- (F) TEMPORARY OR PERMANENT SEEDING FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE
- (G) RIPRAP APRON; SEE DETAIL ON SHEET C906

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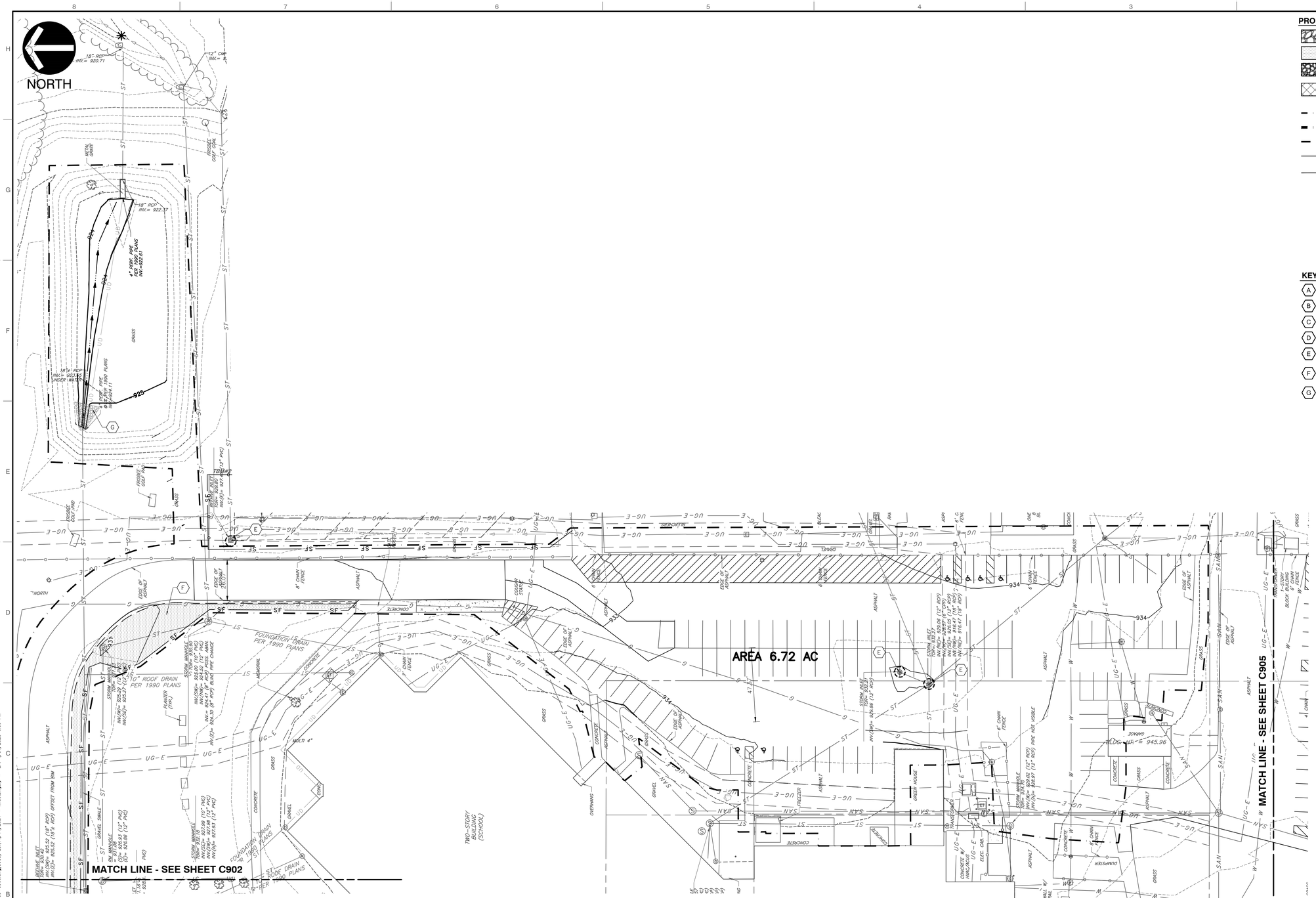

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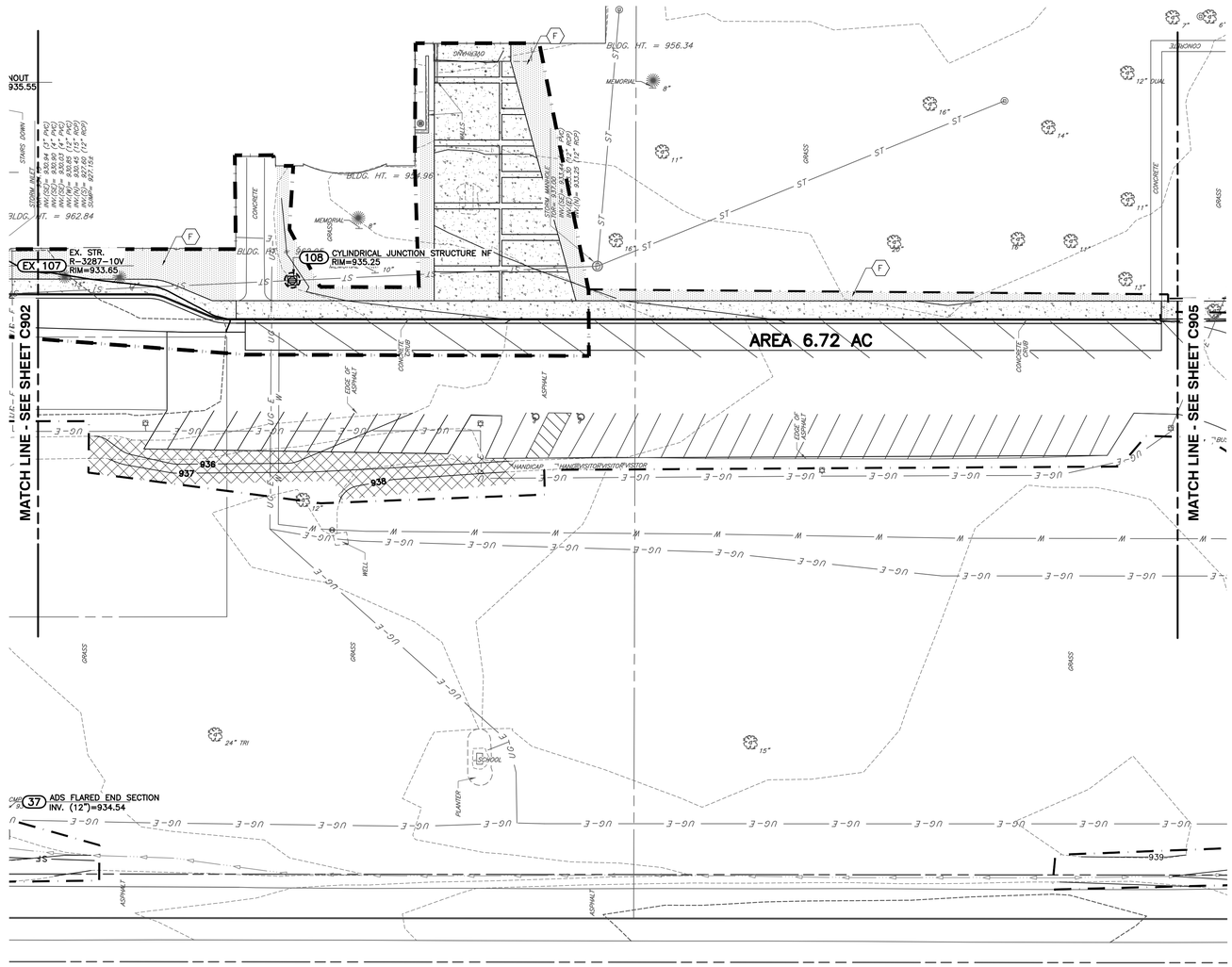
NORTH



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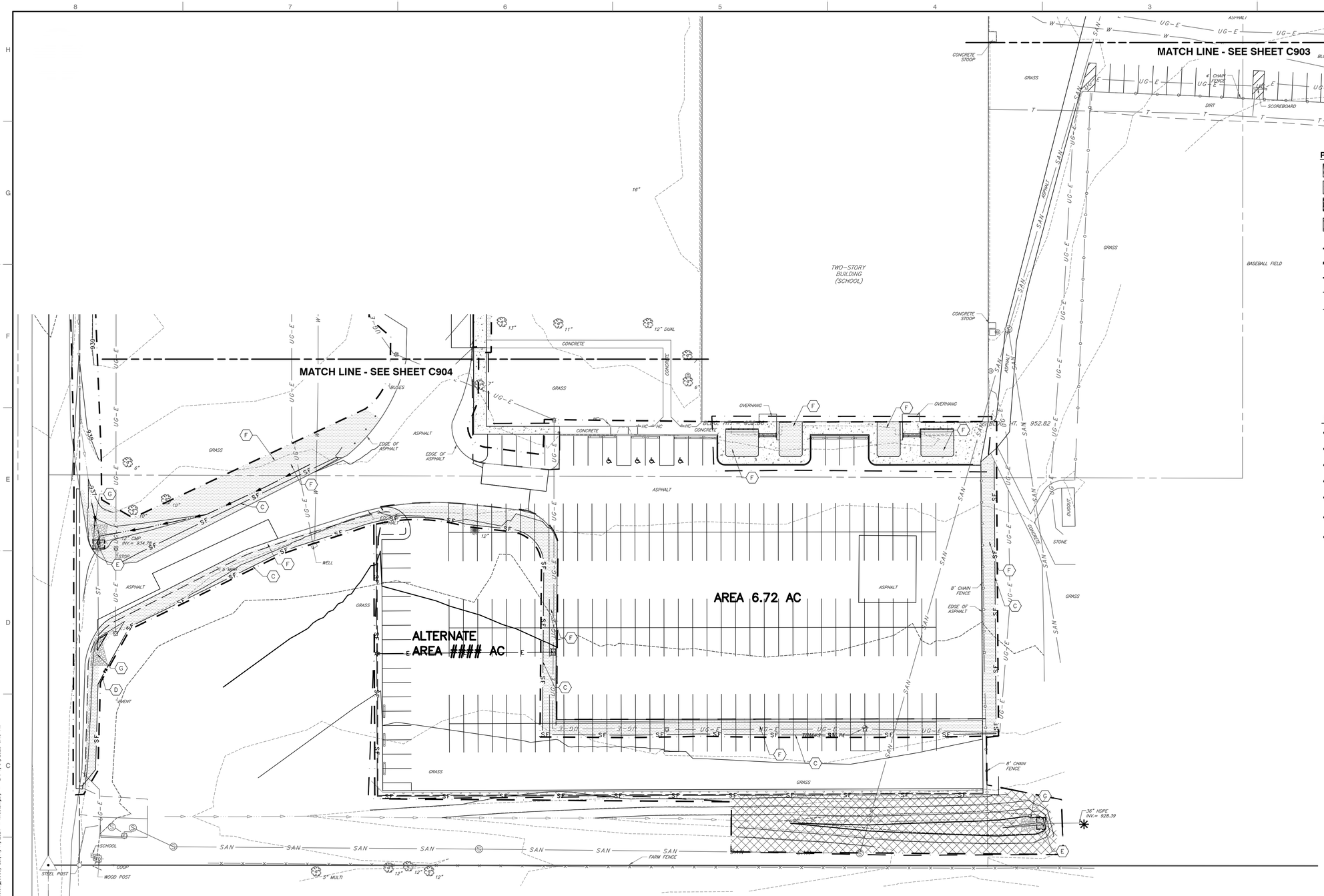

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P:_330-009\337-620\-CAD\Dwg\C903-C905.dwg\C905 LS=(11/1/2024 - khoutchigan) - LP: 1/31/2025 6:40 PM

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

(A1) INDEX OF THE LOCATION OF THE REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN

THE PROPOSED EROSION CONTROL MEASURES CAN BE FOUND ON SHEETS C900–C904. THE CORRESPONDING EROSION CONTROL DETAILS ARE SHOWN ON C906. THE REQUIRED EROSION CONTROL CHECKLIST ITEMS ARE LISTED ON THIS SHEET.

(A2) A VICINITY MAP DEPICTING THE PROJECTS SITE LOCATION

THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON COVER SHEET.

(A3) NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT

THIS PROJECT IS PHASED. LOCATED IN PUTNAM COUNTY AT 8869 COUNTY RD 250 E, ROACHDALE, INDIANA, 46172. PHASE ONE CONSISTS OF TRACK SURFACE IMPROVEMENTS, ATHLETIC FENCE RELOCATION, ARTIFICIAL TURF FIELD INSTALLATION, AND ASSOCIATED SITE IMPROVEMENTS.

PHASE TWO CONSISTS OF A NEW BUILDING ADDITION, PARKING LOT UPGRADES, MILL AND RESURFACE OF REMAINING PARKING AREAS AND ASSOCIATED SITE IMPROVEMENTS.

(A4) LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS

LONGITUDE: LATITUDE:

(A5) LEGAL DESCRIPTION

A LEGAL DESCRIPTION IS SHOWN ON SURVEY SHEET BNDRY (2 OF 2) INCLUDED WITH THIS CONSTRUCTION SET.

(A6) 11X17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES

PLEASE REFER TO SHEET C200, SITE LAYOUT PLAN INCLUDED WITH THE SUBMITTAL.

(A7) BOUNDARIS OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS

THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND/ OR THE FLOODWAY AREA.

(A8) LAND USE OF ALL ADJACENT PROPERTIES

THE EXISTING LAND USES ADJACENT TO THE SITE ARE AS FOLLOWS:

NORTH: RESIDENTIAL (R1) WITH AGRICULTURE USE
WEST: RESIDENTIAL (R1) WITH AGRICULTURE USE
SOUTH: RESIDENTIAL (R1) WITH NATURE CONSERVATION USE
EAST: RESIDENTIAL (R1) WITH NATURE CONSERVATION USE

(A9) IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL (TOTAL MAXIMUM DAILY LOAD)

TDML: NOT ASSESSED

POLLUTANTS: E. COLI, PATHOGENS

(A10) NAME(S) OF THE RECIEVING WATER(S)

DISCHARGES INTO PROPOSED STORM SEWER SYSTEM THEN INTO THE EXISTING STORM WATER SEWER SYSTEM. THEN ULTIMATELY DISCHARGES INTO (BODY OF WATER)

(A11) IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(d) LIST OF IMPARED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPARED

WATERS THAT ARE RECEIVING DIRECT DISCHARGES FROM THIS SITE INCLUDE: UNNAMED TRIBUTARY TO BIG WALNUT CREEK, WHICH IS NOT ASSESSED. WATERS CURRENTLY ON THE 303(d) LIST OF IMPARED WATERS THAT ARE RECEIVING DISCHARGE FROM THIS SITE INCLUDE: BIG WALNUT CREEK THEIR RESPECTIVE CATEGORY AND POLLUTANT FOR WHICH THEY ARE IMPAIRED: 5, PATHOGENS – E.COLI.

(A12) SOIL MAP OF THE PREDOMINATE SOIL TYPES

REFER TO SHEET C907 & C908

(A13) IDENTIFICATION AND LOCATIONOF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING SITE LAYOUT)

THERE ARE NO WETLANDS ON OR ADJACENT TO THE IMMEDIATE PROJECT BOUNDARY.

(A14) IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES

AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) NOTICE OF INTENT (NOI) PERMIT WILL BE REQUIRED FOR THIS PROJECT.

(A15) IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS

THE EXISTING SITE IS CURRENTLY COVERED BY: BUILDINGS, PARKING LOTS, ATHLETIC FIELDS, AND VEGETATION.

(A16) EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS

REFER TO EXISTING TOPOGRAPHIC SURVEY SHEETS AND SHEETS C100 THROUGH C105.

(A17) LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE

REFER TO SHEET C900

(A18) LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE

REFER TO SHEET C900

(A19) LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE

REFER TO SHEET C100

(A20) EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT

REFER TO SHEET C900

(A21) LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES

THERE ARE NO SINKHOLES OR UNCAPPED ABANDONED WELLS LOCATED ON THE PROJECT SITE OR DOWNSTREAM OF THE PROJECT SITE.

(A22) SIZE OF THE PROJECT AREA EXPRESSED IN ACRES

REFER TO SHEET C000.

(A23) TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES

THE OVERALL PROPERTY AREA IS APPROXIMATELY 41.75 ACRES. THE DISTURBED AREA IS APPROXIMATELY 4.3 ACRES. REFER TO SHEET C000 AND C900.

(A24) PROPOSED FINAL TOPOGRAPHY

REFER TO SHEETS C300 THROUGH C305.

(A25) LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

REFER TO SHEETS C900 THROUGH C905.

(A26) LOCATIONS, SIZE, AND DIMENTIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS

REFER TO SITE DEVELOPMENT PLAN SHEET C300 THROUGH C305.

(A27) LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE

DISCHARGES INTO PROPOSED STORM SEWER SYSTEM THEN INTO THE EXISTING STORM WATER SEWER SYSTEM. THEN DISCHARGES INTO UNNAMED TRIBUTARY TO BIG WALNUT CREEK, THEN INTO BIG WALNUT CREEK AND ULTIMATELY INTO CREEK

(A28) LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS

THE PROJECT BOUNDARIES CAN BE SEEN ON SHEETS C900 THROUGH C905.

(A29) LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS

NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. IF TEMPORARY STOCKPILE OR BORROW AREAS ARE UTILIZED DURING CONSTRUCTION THAN THE PERIMETER OF THE STOCKPILE AREA SHALL BE ENCOMPASSED WITH SILT FENCE.

(A30) CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT

THE CONSTRUCTION SUPPORT ACTIVITIES CAN BE SEEN ON SHEETS C900 THROUGH C905.

(A31) LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSING AND PUMP AROUNDS

THERE ARE NO PROPOSED IN STREAM ACTIVITIES FOR THIS SITE.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN CONSTRUCTION COMPONENT (SECTION B)

(B1) DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES

POTENTIAL POLLUTANTS SOURCES RELATIVE TO A CONSTRUCTION SITE MAY INCLUDE, BUT ARE NOT LIMITED TO MATERIAL AND FUEL STORAGE AREAS, FUELING LOCATIONS, EXPOSED SOILS AND LEAKING VEHICLE/EQUIPMENT. POTENTIAL POLLUTANTS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO DIESEL FUEL, GASOLINE, CONCRETE AND CONCRETE WASHOUT, SOLID WASTE, SEDIMENT, PAINT AND SOLVENTS, EQUIPMENT REPAIR PRODUCTS, ANTI–FREEZE AND FERTILIZER.

(B2) STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

THE LOCATION OF THE CONSTRUCTION ENTRANCE IS ON SHEET C900.

(B3) SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION

TEMPORARY SEEDING AND EROSION CONTROL MATTING WILL BE USED AS TEMPORARY SURFACE STABILIZATION MEASURES. DUE TO THE ACCELERATED CONSTRUCTION TIMELINE OF THIS PROJECT, TEMPORARY SEEDING SHOULD NOT BE NECESSARY. REFER TO SHEETS C900 FOR SEEDING AREAS.

APPLY SEED UNIFORMLY.

INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. USE PHOSPHOROUS FREE FERTILIZER (12–0–12) UNLESS SOIL TESTING SHOWS A NEED.

PERMANENT SEEDING WILL BE USED AS PERMANENT SURFACE STABILIZATION MEASURES. REFER TO SHEETS C900 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS.

INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. USE PHOSPHOROUS FREE FERTILIZER (12–0–12) UNLESS SOIL TESTING SHOWS A NEED.

(B4) SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

EROSION CONTROL BLANKET, RIP RAP APRONS AND ROCK CHECK DAMS WILL BE USED AS EROSION CONTROL MEASURES FOR CONCENTRATED FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900 TO C908.

(B5) SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

SILT FENCE, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED AS EROSION CONTROL MEASURES FOR SHEET FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT CONTROL MEASURE IS ON SHEETS C900 TO C908.

(B6) RUNOFF CONTROL MEASURES

N/A

(B7) STORMWATER OUTLET PROTECTION LOCATION AND SPECIFICATIONS

REFER TO PLANS FOR THE LOCATION, DETAILS, AND SPECIFICATIONS FOR OUTLET PROTECTION– SHEETS C900 TO C908.

(B8) GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS

EROSION CONTROL BLANKETS WILL BE USED IN THIS PHASE ON GRADES GREATER THAN 3:1 AND/ OR EXPOSED TO CONCENTRATED FLOW. REFER TO CONSTRUCTION PLANS FOR LOCATIONS.

IF LIME STABILIZATION MEASURES ARE NEEDED DURING CONSTRUCTION TO OBTAIN COMPACTION. THE CONTRACTOR SHALL CONTAIN LIME FROM ENTERING EXISTING STORM SEWER SYSTEM BY ADEQUATELY CONTROLLING RUNOFF. CONTACT ENGINEER FOR SPECIFIC PLANS BASED ON THE AREA OF WORK.

(B9) DEWATERING APPLICATIONS AND MANAGEMENT METHODS

DEWATERING NOT APPLICABLE TO SITE.

(B10) MEASURES UTILIZED FOR WORK WITHIN WATERBODIES

NO WORK WILL BE OCCURRING WITHIN WATERBODIES.

(B11) MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY SERVICE

EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
CONSTRUCTION ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT FENCE	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
FILTER SOCK	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
ROCK CHECK DAMS	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ROUGH GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROSION CONTROL BLANKET	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
SEED, SOD & LANDSCAPE AROUND	WATER AS NEEDED	AFTER FINISHED GRADING
DUST CONTROL	AS NEEDED	ALONG WITH ALL EARTHWORK ACTIVITIES
CONCRETE WASHOUT	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO START OF ANY CONCRETE WORK
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF ROCK CHECK DAMS	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

* SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

SILT FENCE MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF OF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL
3. TOP DRESS WITH CLEAN STONE AS NEEDED..
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.

EROSION CONTROL BLANKET MAINTENANCE REQUIREMENTS:

1. INSPECT EACH EROSION CONTROL BLANKET AREAS WEEKLY AND AFTER STORM E VENTS OR HEAVY USE
2. CHECK FOR DISPLACEMENT OF BLANKET.
3. AREAS DISPLACED, PULL BACK PORTION OF BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA. REPLACE AND STAPLE BLANKET.

CONCRETE WASHOUT MAINTENANCE REQUIREMENTS:

1. INSPECT EACH CONCRETE WASHOUT AREAS DAILY AND AFTER STORM EVENTS OR HEAVY USE.
2. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE. CHECK FOR LEAKS, SPILLS OR TRACKING OF SOIL BY EQUIPMENT.
3. REMOVE EXCESS CONCRETE WHEN WASHOUT SYSTEM REACHES 50% OF THE DESIGN CAPACITY, UPON REMOVAL, INSPECT STRUCTURE, REPAIR AS NEEDED.
4. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER.
5. REPLACE PLASTIC LINER AFTER EVERY CLEANING. ENLARGE AS NECESSARY TO MAINTAIN CAPACITY.

ROCK CHECK DAM MAINTENANCE REQUIREMENTS:

1. INSPECT CHECK DAMS AND THE CHANNEL AFTER EACH STORM EVENT, AND REPAIR ANY DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL A RIPRAP LINER IN THAT PORTION OF THE CHANNEL.
2. REMOVE SEDIMENT ACCUMULATED BEHIND EACH DAM AS NEEDED TO MAINTAIN CHANNEL CAPACITY, TO ALLOW DRAINAGE THROUGH THE DAM, AND TO PREVENT LARGE FLOWS FROM DISPLACING SEDIMENT.
3. ADD AGGREGATE TO THE DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.
4. WHEN THE DAMS ARE NO LONGER NEEDED, REMOVE THE AGGREGATE AND STABILIZE CHANNEL USING EROSION RESISTANT LINING IF NECESSARY

INLET PROTECTION MAINTENANCE REQUIREMENTS:

1. INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM OR HEAVY USE
2. INSPECT STORM INLET BASKET OR GEOTEXTILE FABRIC AND MAKE REPAIRS.
3. REMOVE ANY SEDIMENT. AVOID DAMAGING OR UNDERCUTTING FABRIC.

(B12) STORMWATER QUALITY SEQUENCE

PRE–CONSTRUCTION ACTIVITIES:

SCHEDULE A PRE–CONSTRUCTION MEETING WITH PUTNAM COUNTY SOIL & WATER.

DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH 1/2" RAIN AND A MINIMUM OF ONCE EACH WEEK.

CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1–800–382–5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES– MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.

ESTABLISH ONSITE LOCATION FOR CONTRACTOR PLACEMENT OF APPROVED PLANS AND CSGP NOI AND CSGP INSPECTION DOCUMENTATION.

INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.

INSTALL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS– ADD ADDITIONAL STONE AS NEEDED.

ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. EROSION CONTROL FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE, AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE. CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION.

INSTALL SEWERS, ALL UTILITIES AND UNDERDRAINS. ADD INLET PROTECTION MEASURES AS INDICATED ON PLANS.

AFTER COMPLETION OF MASS GRADING AND FINAL GRADING: SEED ALL DISTURBED AREAS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.

PLACE TOPSOIL IN ALL TURF AND LANDSCAPE AREAS.

INSTALL PAVEMENT AND FINAL GRADE AREA.

INSTALL LANDSCAPING AND FINAL SEEDING.

REMOVE ALL SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED.

NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STAGE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY OR FINAL) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 7 DAYS OR MORE.

(B13) PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT

NO ADDITIONAL EROSION CONTROL SPECIFICATIONS ARE NEEDED FOR THIS PHASE.

(B14) MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1

EXPECTED MATERIALS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO PETROLEUM PRODUCTS, FERTILIZERS, PAINT AND SOLVENTS, AND CONCRETE. MATERIALS SHALL BE STORED IN THE DESIGNATED MATERIAL STORAGE AREA.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT FUELING SHALL CONFORM TO THE FOLLOWING PRACTICES: VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES. LIMITATIONS: ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT. IMPLEMENTATION: USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. DISCOURAGE "TOPPING–OFF" OF FUEL TANKS. ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA. USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL–GRADE AREA. PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS. NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED. FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOILS.

SPILL PREVENTION FOR SOLID WASTE SHALL CONFORM TO THE FOLLOWING PRACTICES: SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS. SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES, AND BUILDING CONSTRUCTION. PACKAGING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES AND MASONRY PRODUCTS. DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS, AND CIGARETTES. CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NON–HAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER PACKAGE CONSTRUCTION MATERIALS. SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE. INFORM TRASH–HAULING CONTRACTORS THAT YOU WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT. PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OUT OR TO PREVENT LOSS OF WASTES WHEN IT IS WINDY. PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION. COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS. REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER. MAKE SURE THAT TOXIC LIQUID WASTES (SUED OILS, SOLVENTS AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNED FOR CONSTRUCTION DEBRIS. DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW. CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL. MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS. SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREAS PRONE TO FLOODING OR PONDING. INSPECT CONSTRUCTION WASTE AREA REGULARLY. ARRANGE FOR REGULAR WASTE COLLECTION.

SPILL PREVENTION FOR CONCRETE WASHOUT SHALL CONFORM TO THE FOLLOWING PRACTICES: STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE. PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS. LOCATE WASHOUT AREAS AT LEAST 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY. AVOID CREATING RUNOFF BY DRAINING WATER TO A BERMED OR LEVEL AREA WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.

THE CLEANUP PARAMETERS SHALL CONFORM TO THE FOLLOWING PRACTICES: THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC–TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEANUP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEANUP SUPPLIES SHOULD BE KEPT ON SITE. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND / OR NECESSARY ALTERATION TO THIS PLAN. WHEN SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE AND THIS BECOME PRIMARY CONCERN, THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT MAINTENANCE SHALL CONFORM TO THE FOLLOWING PRACTICES: PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE". THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. IF THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY, WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY. THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES / EQUIPMENT OFFSITE SHOULD BY DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE / EXIT. OUT DOOR VEHICLE OR EQUIPMENT MAINTENANCE IS A POTENTIALLY SIGNIFICANT SOURCE OF STORMWATER POLLUTION. ACTIVITIES THAT CAN CONTAMINATE STORMWATER INCLUDE ENGINE REPAIR AND SERVICE, CHANGING OR REPLACEMENT OF FLUIDS, AND OUTDOOR EQUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS). IF MAINTENANCE MUST OCCUR ONSITE, USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE COURSES. DEDICATED MAINTENANCE AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATER COURSES. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AND IMPERMEABLE SURFACE IN A DEDICATED MAINTENANCE AREA. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL KITS AND/OR USE OTHER SPILL PROTECTION DEVICES. USE ABSORBENT MATERIALS ON SMALL SPILLS. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT STARTUP FOR LEAKS, AND REPAIR IMMEDIATELY. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE. SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. DRIP PANS OR PLASTIC SHEETING SHOULD BY PLACED UNDER ALL VEHICLES AND EQUIPMENT PLACED ON DOCKS, BARGES, OTHER STRUCTURES OVER WATER BODIES WHEN THE VEHICLE OR EQUIPMENT IS PLANNED TO BE IDLE FOR MORE THAN 1 HOUR. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATER COURSE. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. DO NOT BURY TIRES. REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY.

SPILL PREVENTION FOR FERTILIZERS SHALL CONFORM TO THE FOLLOWING PRACTICES: FERTILIZER'S USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

SPILL PREVENTION FOR PAINT AND SOLVENTS SHALL CONFORM TO THE FOLLOWING PRACTICES: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE OR LOCAL REGULATIONS.

SPILL PREVENTION FOR PORTABLE TOILETS SHALL CONFORM TO THE FOLLOWING PRACTICE: ALL PORTABLE TOILETS MUST BE ANCHORED TO PREVENT SPILLS.

SPILL PREVENTION AND CLEANUP SHALL CONFORM TO IDEM FORM 327 IAC 2–6 AND THE COUNTY EMERGENCY MANAGEMENT AGENCY SHALL BE CONTACTED IN THE CASE OF A MATERIAL SPILL OCCURRING.

IDEM EMERGENCY SPILL REPORTING:	(317) 233–7745 OR (888) 233–7745
PUTNAM COUNTY VOLUNTEER FIRE DISTRICT	911
PUTNAM COUNTY EMERGENCY MANAGEMENT AGENCY	(765) 653–5115
PUTNAM COUNTY SOIL & WATER CONSERVATION	(765) 653–5716 x3

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN COMPONENT (SECTION C)

(C1) DESCRIPTION OF POLLUTATNTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

POTENTIAL POLLUTANT SOURCES THAT MAY APPEAR AT THE SITE DUE TO PROPOSED LAND USE ACTIVITIES, BUT ARE NOT LIMITED TO VEHICLES, EXPOSED SOIL AND TRASH. POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO OIL, GREASE, DIESEL FUEL, GASOLINE, ANTI–FREEZE, AUTO SOAP AND FERTILIZER.

(C2) DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER MEASURES

POST CONSTRUCTION STORMWATER QUALITY MEASURES TO AID IN REDUCING THE AMOUNT OF POLLUTANTS:

1. POST CONSTRUCTION STORMWATER QUALITY MEASURES WILL CONSIST OF VEGETATIVE COVER ON THE PERMANENT GRASS AREAS AND EROSION CONTROL BLANKETS IN SPECIFIED AREAS. BOTH THE VEGETATIVE COVER AND EROSION CONTROL BLANKETS ARE INTENDED TO STABILIZE THE DISTURBED AREAS AND TO SERVE AS A SEDIMENT TRAP FOR FINER PARTICLES WITHIN THE STORM SEWER SYSTEM.

2. THE USE OF INLETS WITHIN THE STORM SEWER SYSTEM HAS BEEN UTILIZED. MAINTENANCE OF THE INLETS WILL BE THE RESPONSIBILITY OF THE OWNER AND/OR AGENCY TAKING JURISDICTION OVER THE STORM SEWER INFRASTRUCTURE IMPROVEMENTS.

3. ENERGY DISSIPATION MEASURES HAVE BEEN INCLUDED AT ALL END SECTIONS LOCATIONS FOR THE OUTLET POINTS OF THE STORM SEWER SYSTEM AND WILL NEED TO BE MAINTAINED TO INSURE PROPER SLOPE BANK STABILITY.

4. A DRY POND AREA IS PROPOSED TO BOTH DETAIN STORMWATER RUNOFF AND PROVIDE A WATER QUALITY IMPROVEMENTS.

5. ALTHOUGH NOT CURRENTLY A PART OF THE PROPOSED SYSTEM, THE OWNER SHOULD BE AWARE THAT IF AN EXCESS OF POLLUTANTS IS DETERMINED TO BE FOUND LEAVING THE SITE, ADDITIONAL MEASURES SUCH AS INLET DROP IN FILTERS MAY BE REQUIRED IN THE FUTURE TO FURTHER REDUCE THE AMOUNT OF FINES AND PETROLEUM PRODUCTS ENTERING THE STORM SEWER SYSTEM FROM THE ROADWAY SYSTEM.

(C3) PLAN DETAILS FOR EACH STORMWATER MEASURE

THE STORMWATER QUALITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS. REFER TO SHEETS C900 & C901 FOR EROSION CONTROL MEASURES TO BE IMPLEMENTED WITHIN THE PROJECT SITE, REFER TO SHEET C300 FOR STORM SEWER IMPROVEMENTS, DRY DETENTION, AND MECHANICAL BMP ARE INTENDED TO SERVE THE POST CONSTRUCTED AREA. DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS FOR THESE STORMWATER QUALITY MEASURES ARE INCLUDED WITHIN THE AFOREMENTIONED SERIES OF CONSTRUCTION DOCUMENTS.

(C4) SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION

THE STORMWATER QUALITY MEASURE IMPLEMENTATION SHALL BE BEGIN AFTER SUBSTANTIAL COMPLETION OF THE CONSTRUCTION ACTIVITIES FOR THE PROPOSED PROJECT. ADDITIONAL STORMWATER QUALITY MEASURES WILL BE IMPLEMENTED AT THE DEVELOPMENT OF SUBSEQUENT CONSTRUCTION PHASES. FOLLOWING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED UNTIL ALL PERMANENT MEASURES, WATER QUALITY PLANTINGS AND VEGETATION HAS BEEN ESTABLISHED AND CONSTRUCTION, INCLUDING LANDSCAPING, IS COMPLETE.

INDIVIDUAL EROSION CONTROL MEASURES MAY BE REMOVED FROM INLET PROTECTION STATUS FOLLOWING SEEDING AND AFTER SUFFICIENT VEGETATION HAS BEEN ESTABLISHED IN AN AREA TO PREVENT SILT AND SOIL EROSION INTO THE STORM SEWER SYSTEM.

INSPECTION AND MAINTENANCE OF ALL COMMON AREAS, LANDSCAPE AREAS AND INFRASTRUCTURE IMPROVEMENTS, MECHANICAL BMP UNIT, AND DETENTION POND ARE THE RESPONSIBILITY OF THE DEVELOPER/OWNER AND OR LOCAL AGENCIES TAKING JURISDICTION OVER THE INFRASTRUCTURE IMPROVEMENTS.

(C5) MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER MEASURES

OWNER WILL PROVIDE MAINTENANCE ACTIVITIES FOR THE POST CONSTRUCTION WATER QUALITY MEASURES. MAINTENANCE ACTIVITIES WILL BE COMPLETED AS DESCRIBED BELOW.

1. ALL INLET CASTINGS WILL BE INSPECTED MONTHLY. DEBRIS AND TRASH AROUND OR OBSTRUCTING INLETS WILL BE REMOVED AND DISPOSED PROPERLY.

2. END SECTIONS WILL BE INSPECTED QUARTERLY. TRASH, STICKS, DEBRIS, AND SEDIMENT WILL BE REMOVED TO ENSURE PROPER PERFORMANCE OF THE END SECTION. RESET RIPRAP IF DISPLACED BY A LARGE RAIN EVENT. ADD ADDITIONAL RIPRAP IF NECESSARY.

3. GRASS AREAS SURROUNDING INLETS WILL BE MAINTAINED ON A REGULAR MOWING CYCLE. TRASH AND DEBRIS WILL BE REMOVED FROM SEEDED AND PAVED AREAS.

4. DAMAGE TO INLET CASTINGS, INLET STRUCTURES, STORM STRUCTURES, OR CATCH BASINS SHOULD BE REPAIRED AS SOON AS POSSIBLE.

5. A MECHANICAL BMP DIVERSION STRUCTURE IS PROPOSED FOR THIS PROJECT. THE OWNER SHALL INSPECT THE SYSTEM ON AT LEAST A MONTHLY BASIS. MORE FREQUENT INSPECTIONS MAY NEED TO TAKE PLACE DURING PERIODS OF HEAVY RAINFALL. THE BMP SHOULD BE INSPECTED FOR FLOATABLE DEBRIS AND FROM ACCUMULATED SEDIMENT. ANY EXCESS SEDIMENT SHOULD BE COLLECTED TO BE REMOVED OF IN A PROPER LOCATION SO THAT THE DEBRIS DOES NOT ENTER INTO THE DOWNSTREAM STORMWATER SYSTEM. ALL MAINTENANCE REQUIREMENTS ARE THE RESPONSIBILITY OF THE OWNER. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL.

6. DETENTION AREA SHALL BE MAINTAINED. DEBRIS AND SILT ACCUMULATION SHALL BE REMOVED.

7. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL.

(C6) ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES

EROSION CONTROL RESPONSIBLE PERSON

THE PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL IS LISTED BELOW.

NAME
COMPANY
ADDRESS 1
ADDRESS 2
CITY, STATE ZIP
PH: (000) 000–0000
EMAIL:

Indiana 811
Know what's below. Call before you dig.

TODD C. WALLACE
REGISTERED
№ PE11011395
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

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WILLIAMS ARCHITECTS
NORTH PUTNAM COMMUNITY SCHOOLS
IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

STORMWATER POLLUTION & PREVENTION NOTES

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:	337-620		
APPROVED BY:	DRAFT		

DRAWING NO.: C906

SEEDBED PREPARATION

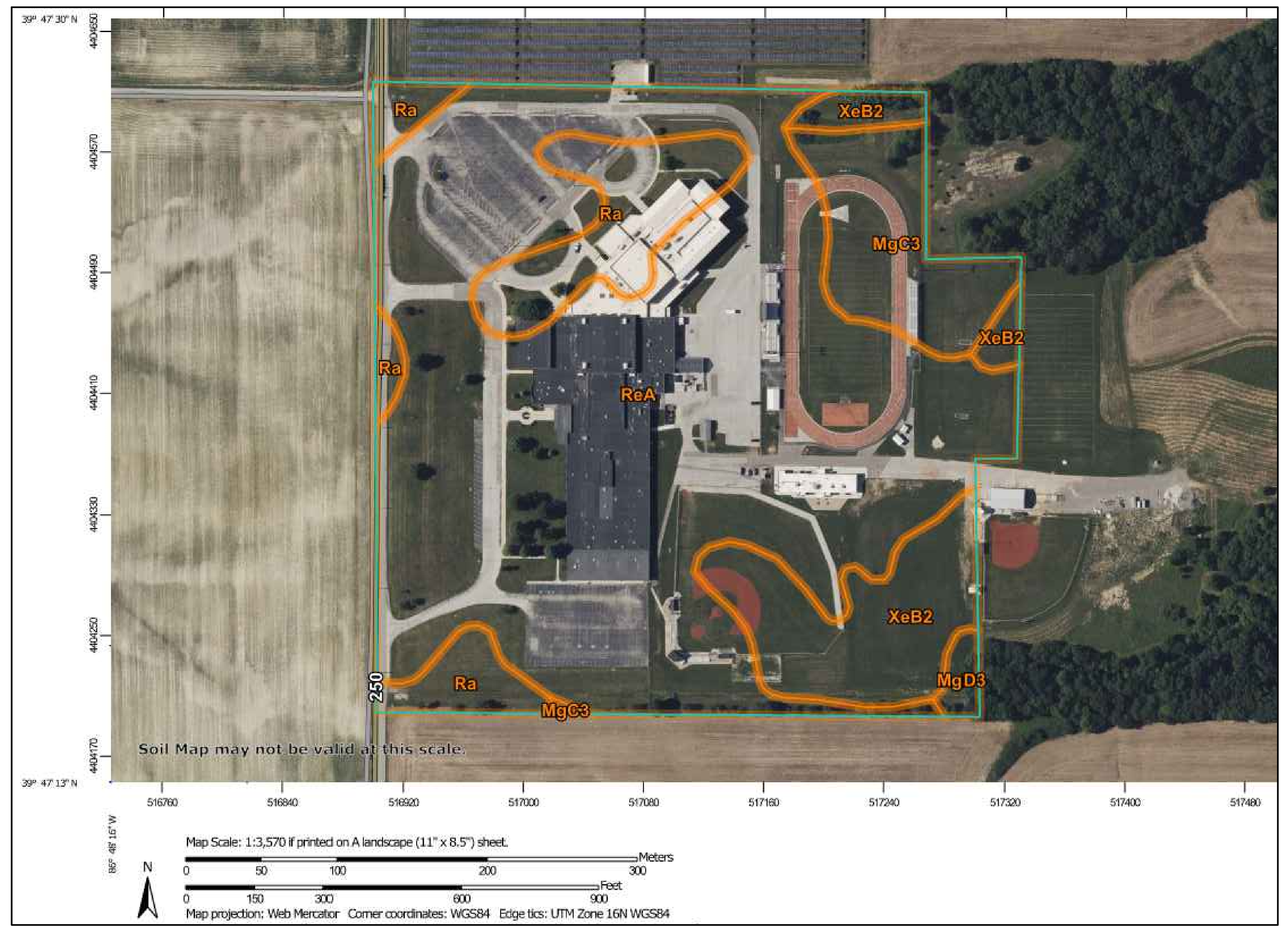
1. APPLY LIME TO RAISE THE pH TO THE LEVEL AS NEEDED FOR SPECIES BEING SEEDED.
2. APPLY 23 POUNDS OF PHOSPHOROUS FREE FERTILIZER: 12–0–12 ANALYSIS (OR EQUIVALENT) PER 1000 SQ. FT. (APPROXIMATELY 1000 POUNDS PER ACRE) OR FERTILIZE ACCORDING TO TEST. APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH.
3. WORK THE FERTILIZER AND LIME INTO THE SOIL TO A DEPTH OF 2–4 INCHES WITH A HARROW, DISK OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE.
4. STRAW MULCH MUST BE APPLIED WITH ANY SEEDING. SLOPES 6:1 OR GREATER AND STORM WATER CONVEYANCE SWALES MUST BE STABILIZED WITH EROSION CONTROL BLANKET.

SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA (SEE PERMANENT SEED MIXTURE CHART). WHILE CONSIDERING BEST SEEDING DATES. IF PERMANENT SEEDING IS NOT PERMITTED USE TEMPORARY SEEDING UNTIL PERMANENT SEEDING CAN BE APPLIED. IF TOLERANCES ARE A PROBLEM, SUCH AS SALT TOLERANCE OF SEEDINGS ADJACENT TO STREETS AND HIGHWAYS, SEE SEED TOLERANCE CHART.

	SOIL CONDITION			SHADE TOLERANCE	CLOSE MOWING TO 2–3 1/2 INCHES	TRAMPING TOLERANCE	FERTILITY NEEDS	WINTER HARDINESS	FLOODING TOLERANCE (DAYS)	MATURE HEIGHT (INCHES)	EMERGENCE TIME (DAYS)	SOIL TOLERANCE		
	WET	NORM	DRY									GEN.	SOIL	SPRAY
CREEPING RED FESCUE FESTUCA RUBRA	2	1	2	1	1	1	MED.	1	20–25	12–18	7–21			S
KENTUCKY BLUEGRASS POA PROTINSIS	2	1	2	1	1	1	MED.	1	20–35	12–18	10–20			MT
PERENNIAL RYEGRASS LOLLUM PERENNE	2	1	2	–	1	2	MED. HIGH	2	15–20	12–18	5–10		MT	
RED CLOVER TRIFOLIUM PROTENSE	–	1	–	2	–	–	MED.	1	7–10	18	5–10	S	S	

RANKING:
1 GOOD
2 MEDIUM
– NOT TOLERANT

SALT TOLERANCE (TO BOTH SOIL SALTS & SPRAY)
T TOLERANCE
MT MEDIUM TOLERANCE
S SLIGHT TOLERANCE



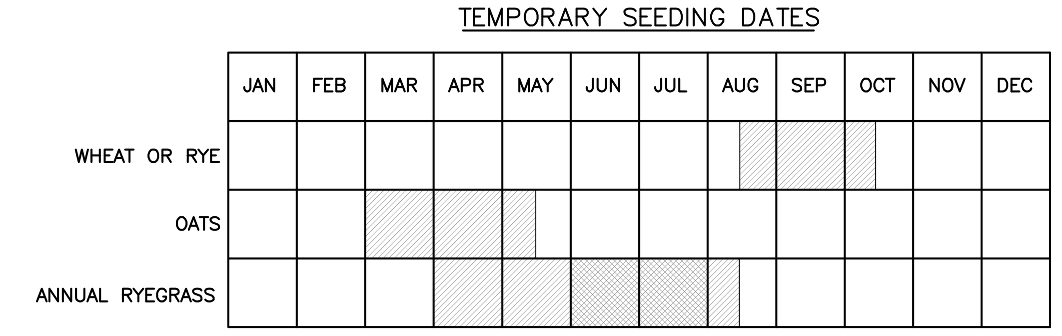
TEMPORARY SEEDING			
TYPE OF SEED	1000 SQ. FT.	ACRE	REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LB.	COVER SEED 1/4" DEEP

* NOT NECESSARY WHERE MULCH IS APPLIED.

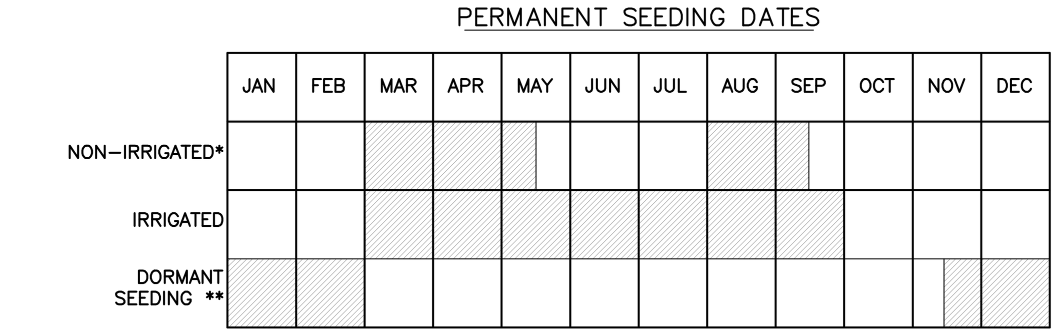
PERMANENT SEEDING	SEEDING RATE		SUITABLE pH	SITE SUITABILITY *		
	LBS/ACRE	LBS/1000 SQ. FT.		DROUGHTY	WELL DRAINED	WET
LEVEL AND SLOPING, OPEN AREAS						
RED CLOVER	5	.12				
KENTUCKY BLUEGRASS	15	.4	5.8–7.5	2	1	
CREEPING RED FESCUE	15	.4				
STEEP BANKS AND CUTS						
KENTUCKY BLUEGRASS	25	.6				
LAWNS AND HIGH MAINTENANCE AREAS						
KENTUCKY BLUEGRASS	40	.9	5.8–7.5	2	1	
CREEPING RED FESCUE	40	.9				
PERENNIAL RYEGRASS	170	4.0	5.0–7.5		1	
(TURF TYPE)						

* 1 – PREFERRED 2 – WILL TOLERATE

TEMPORARY SEEDING DATES



PERMANENT SEEDING DATES



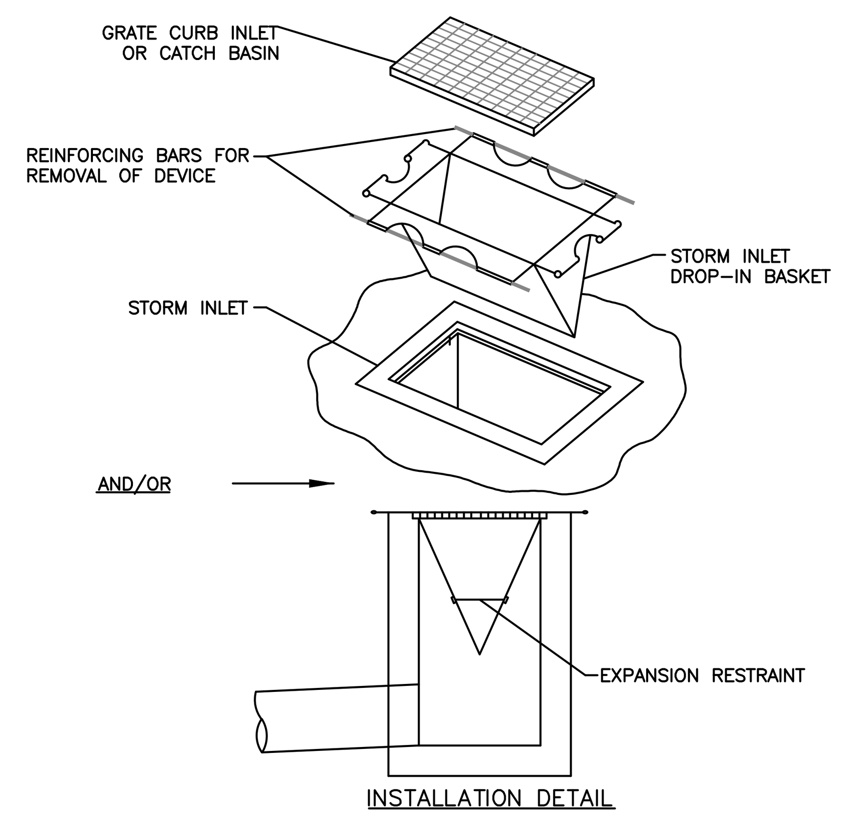
IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS. USE MULCH.

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** INCREASE SEEDING APPLICATION BY 50%.

REFERENCES:

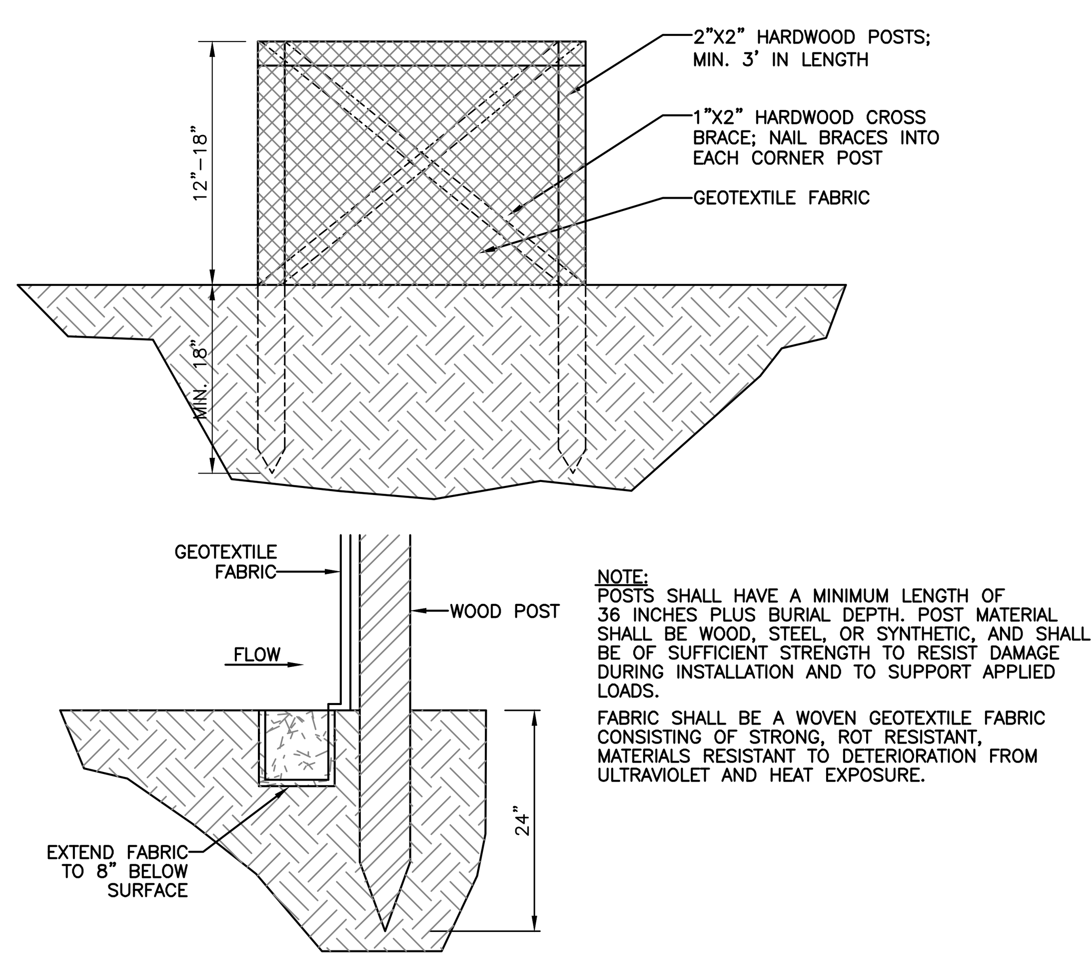
1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337–620. 1' CONTOUR INTERVAL.
2. AERIAL IMAGERY SHOWN ON PLANS GENERATED FROM MICROSOFT BING IMAGES.
3. SEE SHEET C001 FOR GENERAL NOTES AND SHEET SPECIFIC NOTES.
4. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.



NOTE:
AS AN ALTERNATIVE, THE CONTRACTOR MAY SUBSTITUTE A COMMERCIAL GEOTEXTILE FILTER OR AN APPROVED EQUAL.

DETAIL 907 - EROSION CONTROL INLET PROTECTION FOR CURB INLET AND CATCH BASINS

NOT TO SCALE

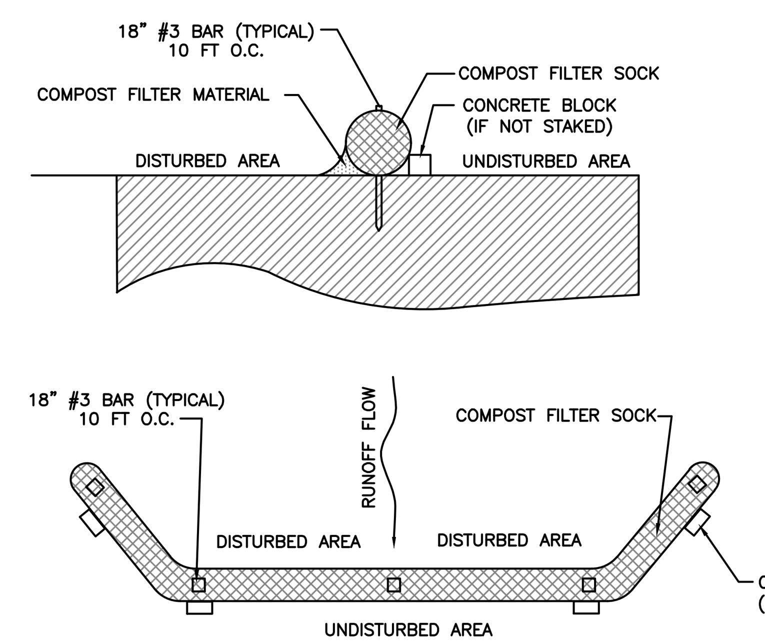


NOTE:
POSTS SHALL HAVE A MINIMUM LENGTH OF 36 INCHES PLUS BURIAL DEPTH. POST MATERIAL SHALL BE WOOD, STEEL, OR SYNTHETIC, AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION AND TO SUPPORT APPLIED LOADS.

FABRIC SHALL BE A WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.

DETAIL 906 - NON-PAVED AREA CATCH BASIN INLET PROTECTION DETAIL

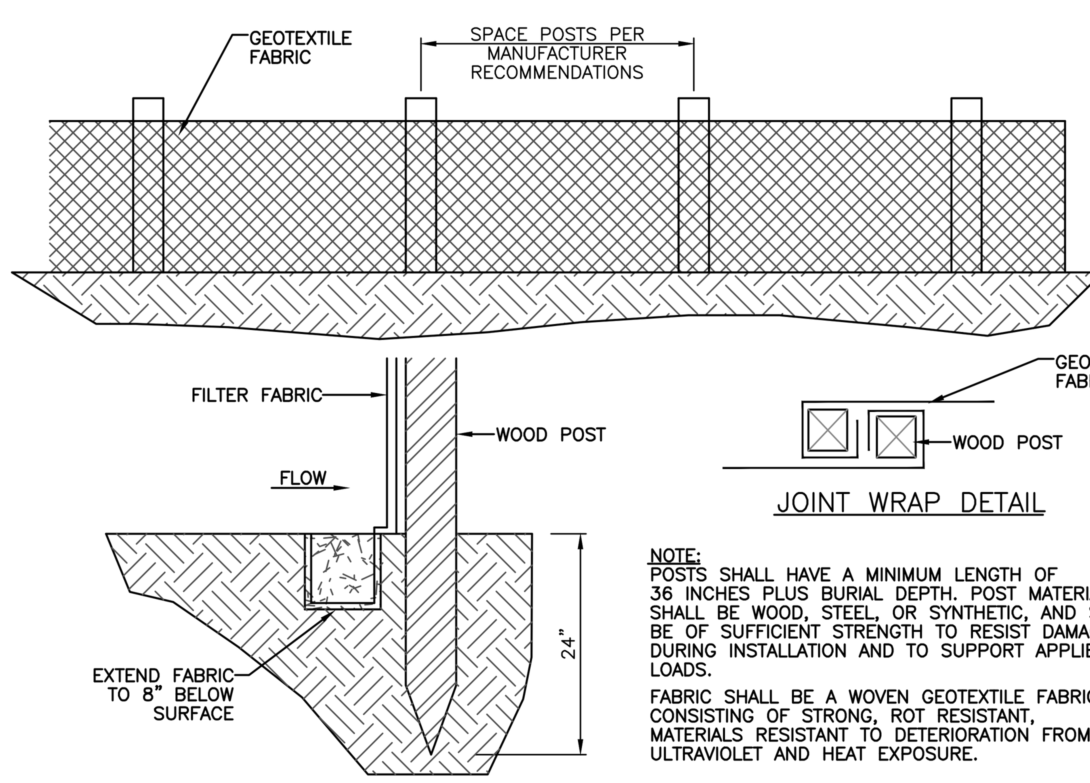
NOT TO SCALE



NOTES:
1. ENDS OF COMPOST FILTER SOCKS TO BE TURNED 8' UPSLOPE 45 DEGREES TO THE CONTOUR
2. COMPOST FILTER SOCKS PLACED ON PAVED SURFACE OR SURFACES THAT CANNOT BE STAKED SHALL BE BACKED WITH CONCRETE BLOCK.
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

DETAIL 905 - FILTER SOCK DETAIL

NOT TO SCALE

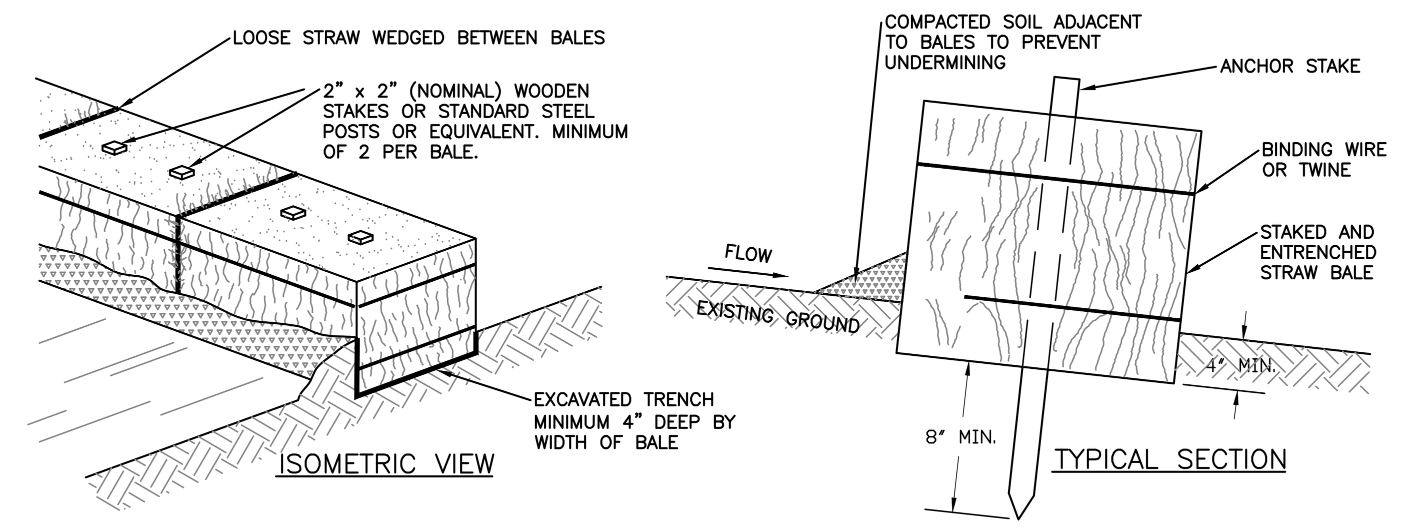


NOTE:
POSTS SHALL HAVE A MINIMUM LENGTH OF 36 INCHES PLUS BURIAL DEPTH. POST MATERIAL SHALL BE WOOD, STEEL, OR SYNTHETIC, AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION AND TO SUPPORT APPLIED LOADS.

FABRIC SHALL BE A WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.

DETAIL 904 - SILT FENCE

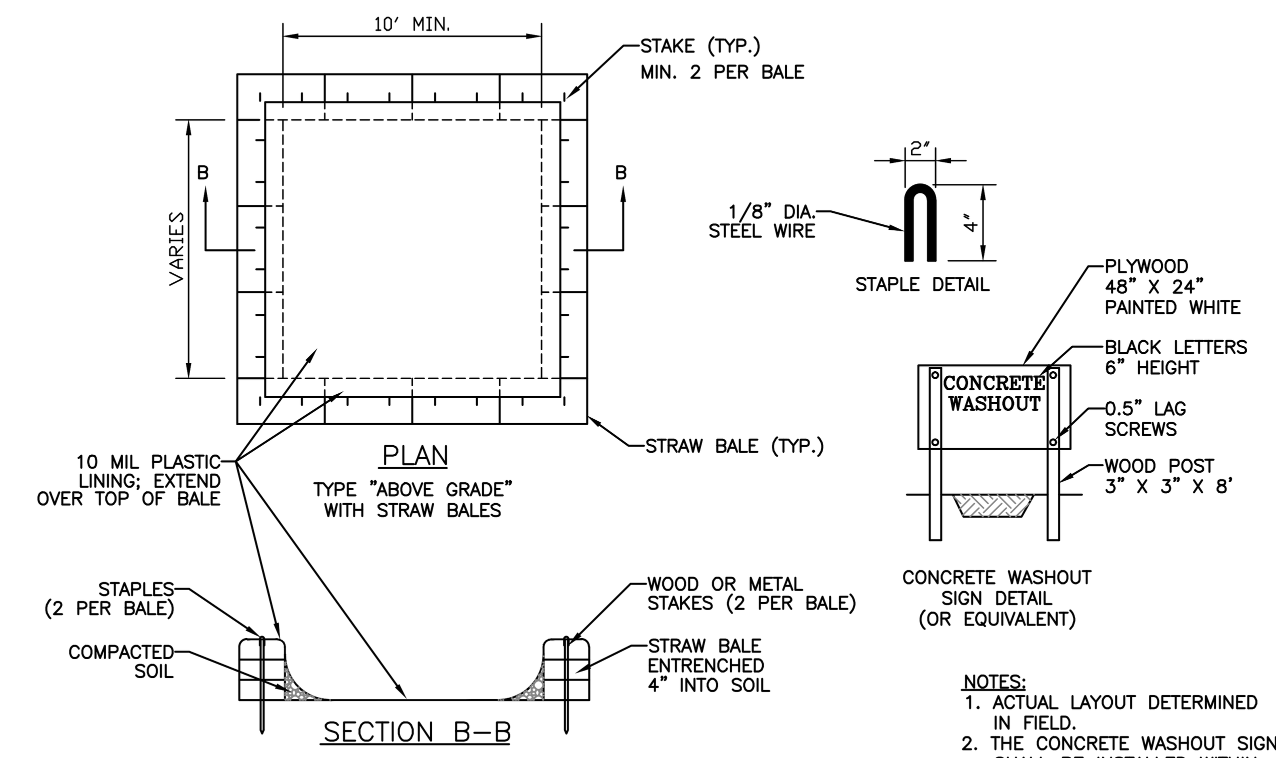
NOT TO SCALE



NOTES:
1. STRAW BALES ONLY TO BE USED AT CONCRETE WASH STATION AREA. REFER TO DETAIL.
2. THE STRAW BALES SHALL BE BUTTED TOGETHER AS TIGHTLY AS POSSIBLE.
3. THE FIRST ANCHOR STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY ANCHORED BALE TO HELP CREATE A TIGHT FIT.

DETAIL 903 - STRAW BALE FOR CONCRETE WASHOUT

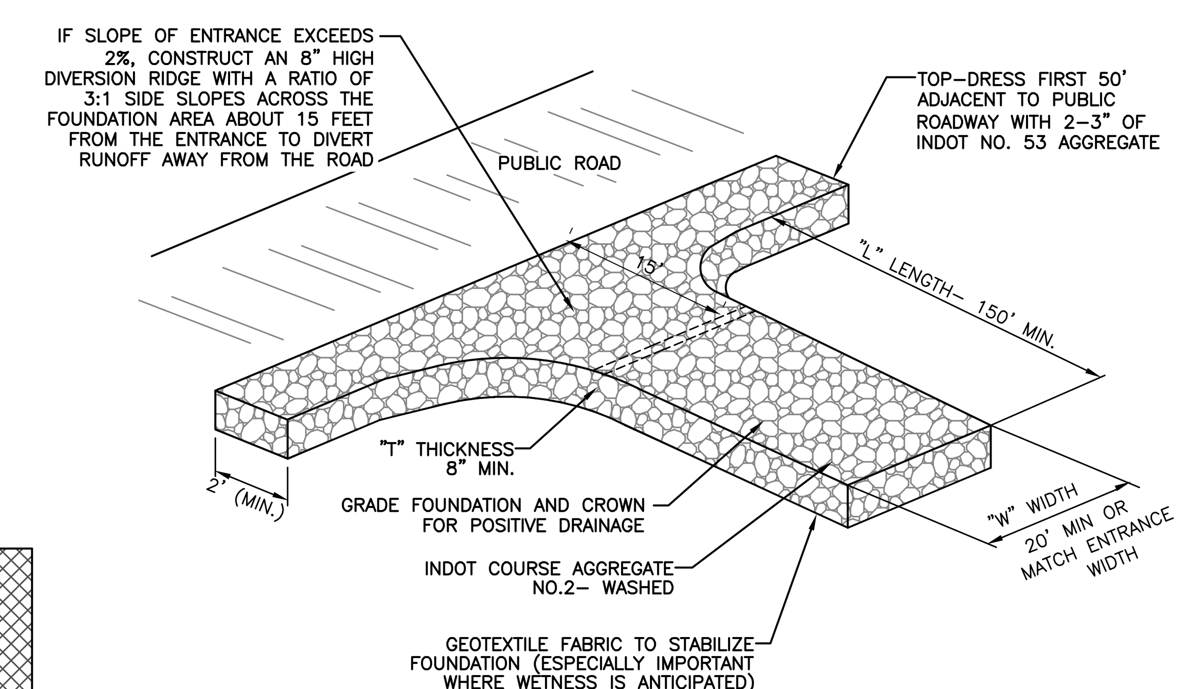
NOT TO SCALE



NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

DETAIL 902 - CONCRETE WASHOUT BMP

NOT TO SCALE



DETAIL 901 - TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE

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TODD C. WALLACE REGISTERED № PE11011395 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISION RECORD

NO	DATE	DESCRIPTION

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WILLIAMS ARCHITECTS
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IMPROVEMENTS PROJECT
8869 County Rd 250 E.
Roachdale, IN 46172

STORMWATER POLLUTION PREVENTION DETAILS

DATE:	JAN 31, 2025	DRAWN BY:	EBI
DWG SCALE:	1"=30'	CHECKED BY:	TCW
PROJECT NO:	337-620		
APPROVED BY:	DRAFT		

DRAWING NO.:
C907

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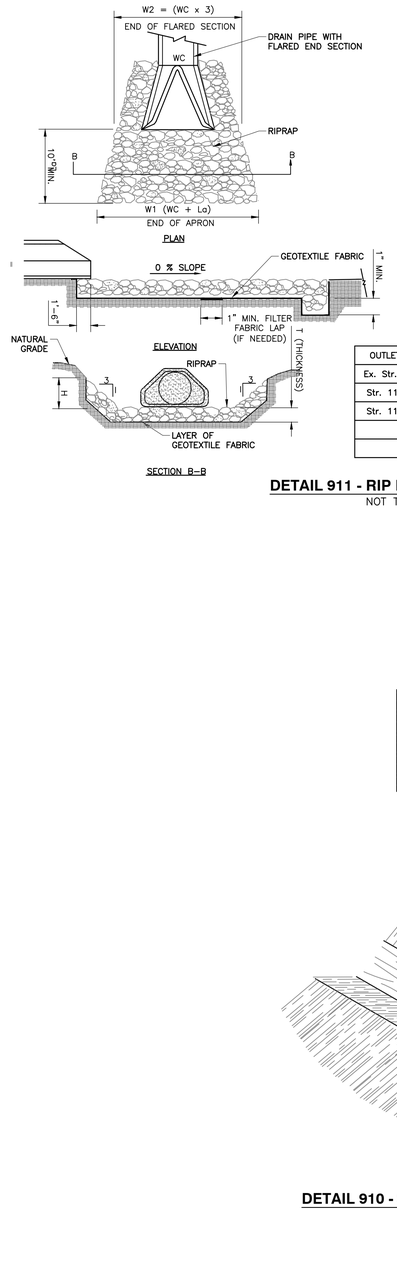


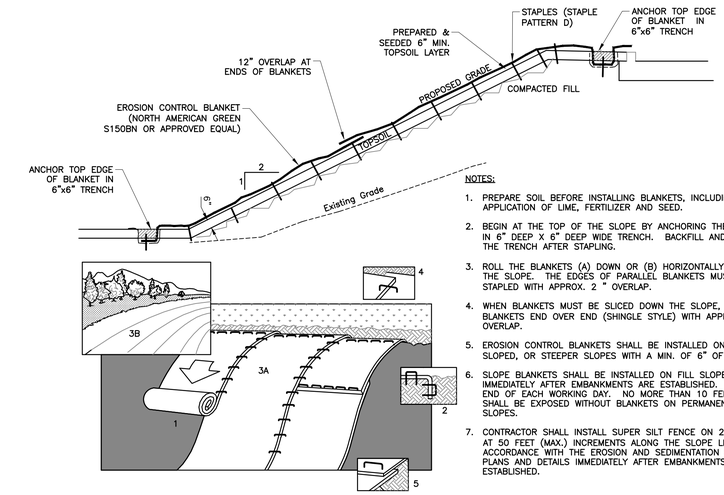
NOTES:

1. CLASS OR MEDIAN SIZE OF RIPRAP AND LENGTH, WIDTH AND DEPTH OF APRON TO BE DESIGNED BY THE ENGINEER AND ARE SUMMARIZED BELOW.
2. RIPRAP SHOULD EXTEND UP BOTH SIDES OF THE APRON AND AROUND THE END OF THE PIPE OR CULVERT AT THE DISCHARGE OUTLET AT A MAXIMUM SLOPE OF 2:1 AND A HEIGHT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER OR CULVERT HEIGHT.
3. THERE SHALL BE NO OVERFLOW FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR RIPRAPPED SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING CHANNEL. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
4. THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL. MAX. TAPER TO RECEIVING CHANNEL 5:1.
5. ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
6. THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
7. NO BENDS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
8. FILTER FABRIC SHALL BE INSTALLED ON COMPACTED SUBGRADE PRIOR TO PLACEMENT OF RIPRAP.
9. ANY DISTURBED AREA FROM END OF APRON TO RECEIVING CHANNEL MUST BE STABILIZED.

OUTLET	La	W1	W2	WC	T	H	d_{50}	d_{MAX}
Ex. Str. 1	15 lf	16.5 ft.	4.5 ft.	18"	12 in.	18 in.	8 in.	12 in.
Str. 113	10 lf	11 ft.	3 ft.	12"	12 in.	18 in.	6 in.	9 in.
Str. 114	12 lf	15.75 ft.	3.75 ft.	15"	12 in.	18 in.	6 in.	9 in.

DETAIL 911 - RIP RAP APRON DETAIL

NOT TO SCALE

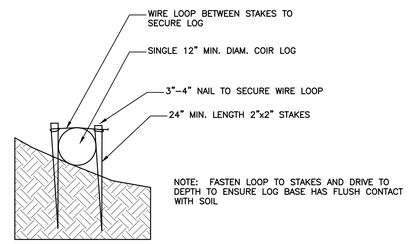


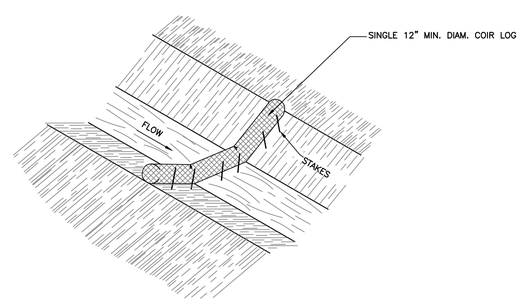
NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" DEEP WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROX. 2 " OVERLAP.
4. WHEN BLANKETS MUST BE SLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROX. 12" OVERLAP.
5. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL 3:1 SLOPED, OR STEEPER SLOPES WITH A MIN. OF 6" OF TOPSOIL.
6. SLOPE BLANKETS SHALL BE INSTALLED ON FILL SLOPES IMMEDIATELY AFTER EMBANKMENTS ARE ESTABLISHED. AT THE END OF EACH WORKING DAY. NO MORE THAN 10 FEET OF SOIL SHALL BE EXPOSED WITHOUT BLANKETS ON PERMANENT 3:1 FILL SLOPES.
7. CONTRACTOR SHALL INSTALL SUPER SILT FENCE ON 2:1 SLOPES AT 50 FEET (MAX.) INCREMENTS ALONG THE SLOPE LENGTH IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL PLANS AND DETAILS IMMEDIATELY AFTER EMBANKMENTS ARE ESTABLISHED.

DETAIL 909 - SLOPE BLANKET INSTALLATION

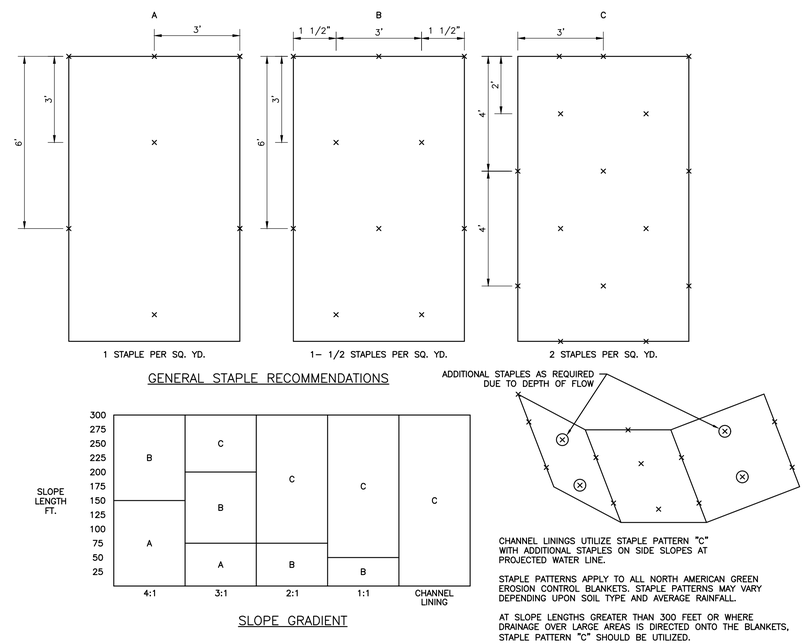
NOT TO SCALE





DETAIL 910 - SINGLE COIR LOG DITCH APPLICATION

NOT TO SCALE



CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

DETAIL 908 - EROSION CONTROL MAT INSTALLATION GUIDE DETAIL

NOT TO SCALE

REFERENCES:

1. BOUNDARY RETRACEMENT AND TOPOGRAPHIC SURVEY PROVIDED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. SURVEY DATED APRIL 16, 2024 PROJECT NO. 337-620. 1' CONTOUR INTERVAL.
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Civil & Environmental Consultants, Inc.

WILLIAMS ARCHITECTS
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8869 County Rd 250 E.
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STORMWATER POLLUTION PREVENTION DETAILS

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DRAWN BY:	EBI
DWG SCALE:	1"=30'
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PROJECT NO:	337-620
APPROVED BY:	DRAFT

DRAWING NO.: **C908**

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DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH IBC 2012 AND SUBSEQUENT REFERENCE STANDARDS.
2. RISK CATEGORY: III
3. SUPERIMPOSED DEAD LOADS:

ROOF	TYPICAL	15 PSF
FLOOR	TYPICAL	10 PSF

4. SUPERIMPOSED LIVE LOADS: LIVE LOAD REDUCTION USED AS ALLOWED PER CODE

ROOF	TYPICAL	20 PSF
FLOOR	TYPICAL	100 PSF
OTHER	HANDRAILS	MAX OF 50 PLF HORIZ PLUS 50 PLF VERT OR 200 LBS IN ANY DIRECTION, APPLIED AT TOP OF RAILING

5. MECHANICAL UNITS: THE CONTRACTOR SHALL CONFIRM THE ACTUAL MECHANICAL UNITS PURCHASED ARE OF WEIGHT AND SIZE SUCH THAT:
   a. THE UNIT WEIGHT IS LESS THAN OR EQUAL TO WEIGHT LISTED ON PLAN.
   b. THE UNIT LENGTH IS LESS THAN 15 FEET. IF UNIT LENGTH IS GREATER THAN 15 FEET, SNOW DRIFT ON ROOF SHALL BE ACCOUNTED FOR.
   c. THE TOTAL SUPERIMPOSED LOAD UNDER EACH UNIT DOES NOT EXCEED THE LIVE LOAD FOR WHICH THE FLOOR WAS DESIGNED IN THE FLOOR AREA WHERE THE UNIT IS LOCATED AS INDICATED BY THE EQUATION BELOW:

TOTAL SUPERIMPOSED LOAD UNDER UNIT =	TOTAL EQUIPMENT WEIGHT / UNIT FOOTPRINT AREA =	INDICATED SERVICE LEVEL DESIGN LIVE LOAD
TOTAL EQUIPMENT WEIGHT =	OPERATING WEIGHT OF UNIT + CONCRETE HOUSEKEEPING PAD + INERTIA BLOCK + OTHER ANCILLARY ITEMS ASSOCIATED WITH THE EQUIPMENT	
UNIT FOOTPRINT AREA =	EFFECTIVE AREA OF UNIT OR HOUSEKEEPING PAD, WHICHEVER IS LARGER	
EFFECTIVE AREA =	(LENGTH + 6 FEET) x (WIDTH + 6 FEET)	

CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION ON THE LOCATION OF ANY MECHANICAL UNITS WHERE THE SUPERIMPOSED LOAD UNDER THE UNIT EXCEEDS THE INDICATED DESIGN SIZE AND LOAD FOR THE ROOF AND/OR LIVE LOAD FOR THE FLOOR AS INDICATED ON THE PLAN.

6. SNOW:

GROUND SNOW	20 PSF
SNOW EXPOSURE FACTOR	1.0
THERMAL FACTOR	1.0
IMPORTANCE FACTOR	1.1
FLAT-ROOF SNOW	15.4 PSF
RAIN-ON-SNOW SURCHARGE	5 PSF
DESIGN SNOW	25 PSF
SEE S0.2 FOR SNOW DRIFT PLAN.	

7. SEISMIC:

SEISMIC DESIGN CATEGORY	B
IMPORTANCE FACTOR	1.25
SITE CLASS	C
SS	0.189 g
S1	0.094 g
SDS	0.151 g
SD1	0.107 g
SEISMIC FORCE RESISTING SYSTEM	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE AND INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT, R	3
Cd	3
O	3
Rho	1.0
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC RESPONSE COEFFICIENT, CS	0.0630
DESIGN BASE SHEAR (STRENGTH LEVEL)	80 KIPS

8. WIND:

BASIC WIND SPEED	VULT = 120 MPH VASD = 93 MPH		
EXPOSURE CLASS	C		
INTERNAL PRESSURE COEFFICIENT, GCpi	±0.18		
MAIN WIND FORCE PRESSURE (STRENGTH LEVEL)	32 PSF		
COMPONENTS & CLADDING:			
ROOF COMPONENTS	ZONE 1	ZONE 2	ZONE 3
SUPPORT BEAMS (A>100 SF)	+16/-34 PSF	+16/-40 PSF	+16/-40 PSF
ROOF SHEATHING (A=50 SF)	+16/-35 PSF	+16/-47 PSF	+16/-56 PSF
DECK FASTENERS (A=10 SF)	+16/-37 PSF	+16/-62 PSF	+16/-93 PSF
WALL COMPONENTS	ZONE 4	ZONE 5	
A=200 SF	+28/-30 PSF	+28/-32 PSF	
A=50 SF	+31/-33 PSF	+31/-38 PSF	
A=20 SF	+34/-37 PSF	+34/-45 PSF	

C & C NOTES:
   a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
   b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
   c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
   d. SUBMIT DESIGN CALCULATIONS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT'S JURISDICTION FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.

9. RAIN:

RAIN INTENSITY, i	7.31 IN/HR

10. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY A COMBINATION OF REINFORCED MASONRY SHEAR WALLS AND STEEL MOMENT FRAMES IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE STEEL DECK AND CONCRETE ON STEEL DECK SERVE AS HORIZONTAL DIAPHRAGMS DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. TEMPORARY BRACING, SHORING, GUYING, ETC. SHALL AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK THAT DEVIATES FROM OR IS PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE DESIGN PROFESSIONALS.
3. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR DETERMINING SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKERS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: FALSEWORK, FORMWORK, STAGING, BRACING, AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
5. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SIGNED AND SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. ALL PRODUCT SUBSTITUTIONS SHALL INCLUDE A CODE EVALUATION REPORT SPECIFIC TO THE BUILDING CODE LISTED IN THE DESIGN CRITERIA.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF / FLOOR OPENINGS, TOP OF WALL ELEVATIONS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS. FOR THESE NON-STRUCTURAL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS, THEY ARE FOR GENERAL INFORMATION ONLY.
11. COORDINATE FLOOR FINISH INCLUDING, BUT NOT LIMITED TO THE "FLATNESS" AND "LEVELNESS" REQUIREMENTS, WITH THE FLOOR FINISH CONTRACTOR. PROVIDE UNDERLAYMENT / TOPPING WHERE REQUIRED TO PROVIDE A SURFACE ACCEPTABLE FOR INSTALLATION OF FLOOR FINISHES. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
13. THE EXACT WEIGHTS, DIMENSIONS, AND LOCATIONS OF ALL MECHANICAL UNITS AND ELECTRICAL GEAR SUPPORTED ON STRUCTURAL FRAMING SHALL BE DETERMINED AND COORDINATED BY THE CONTRACTOR PRIOR TO DETAILING THE STRUCTURAL FRAMING SUPPORTING THOSE UNITS. IF THE UNIT WEIGHTS ARE GREATER THAN THE WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO DETAILING THE STRUCTURE. UNIT WEIGHTS, DIMENSIONS, AND LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE ONLY AND SHALL NOT BE USED FOR DETAILING THE STRUCTURE.
14. PROVIDE TEMPORARY BLOCKOUTS AND TEMPORARY OPENINGS IN THE STRUCTURE AS REQUIRED TO PERMIT INSTALLATION OF ALL WORK. BLOCKOUTS AND TEMPORARY OPENINGS SHALL BE LOCATED, CONFIGURED, DETAILED, AND INFILLED IN A MANNER THAT ALTERS NEITHER THE STRENGTH OF THE STRUCTURAL FRAMING NOR THE STRENGTH OF CONNECTIONS. INFILL ALL BLOCKOUTS AND TEMPORARY OPENINGS USING THE MATERIALS SPECIFIED FOR THE FRAMING AT THE LOCATIONS WHERE THE BLOCKOUTS AND OPENINGS OCCUR. SUBMIT DRAWINGS INDICATING THE LOCATIONS, DIMENSIONS, AND DETAILS OF ALL PROPOSED BLOCKOUTS AND OPENINGS AND DETAILS INDICATING THE MANNER IN WHICH THE BLOCKOUTS AND OPENINGS WILL BE INFILLED.
15. NO HOLES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
16. PENETRATIONS IN CONCRETE SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE STRUCTURAL DRAWINGS.
17. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, CONTRACTOR SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH FIELD CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.
18. ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS. THE STRUCTURAL FRAMING WAS DESIGNED TO LIMIT DRIFT AND DEFLECTION OF THE STRUCTURAL SYSTEM TO LESS THAN THE MAXIMUM PERMITTED DEFLECTIONS LISTED IN THE BUILDING CODE. THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES TO ACCOMMODATE THESE DEFLECTIONS AND TO ACCOMMODATE CONSTRUCTION TOLERANCES.
19. TOPS OF ALL MASONRY WALLS SHALL BE CONNECTED TO THE UNDERSIDE OF THE STRUCTURAL FRAMING PER DETAILS PROVIDED ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SUCH WALLS.
20. FIRE PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AS SPECIFIED BY THE ARCHITECTURAL DRAWINGS. UL FIRE RESISTANCE RATING RESTRAINT CLASSIFICATION AS FOLLOWS:
   a. "PRIMARY STRUCTURAL FRAME", AS DEFINED BY IBC SECTION 202 IS "RESTRAINED" EXCEPT AS INDICATED IN FOLLOWING NOTE.
   b. THE FOLLOWING FRAMING IS "UNRESTRAINED":
      1. FRAMING SUPPORTED BY BEARING WALLS, OTHER THAN CAST-IN-PLACE CONCRETE WALLS, IN END BAYS AND OTHER LOCATIONS WHERE THE END OF THE FRAMING IS NOT ABUTTING FRAMING IN AN ADJACENT BAY.
      2. STEEL JOISTS IN END BAYS ON ROOFS SUPPORTING STEEL DECK.

SUBMITTALS

1. SUBMITTALS ARE:
   a. CONCRETE MIX DESIGNS
   b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
   c. CONCRETE AND MASONRY REINFORCING
   d. STEEL FABRICATION AND MISCELLANEOUS METALS
   e. JOISTS
   f. STEEL DECK
2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE DESIGN PROFESSIONALS.
3. SUBMITTALS SHALL BE REVIEWED BY THE DESIGN PROFESSIONALS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE DESIGN PROFESSIONALS ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

DELEGATED DESIGN

1. DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION.
2. DELEGATED DESIGNS ARE:
   a. EXCAVATION AND SHORING
   b. SHORT AGGREGATE PIER FOUNDATION SYSTEM
   c. EXTERIOR WALL SYSTEMS
   d. CURTAIN WALL AND STOREFRONT SYSTEMS
   e. COLD FORMED STEEL FRAMING AND CONNECTIONS
   f. ROOFTOP EQUIPMENT ANCHORAGE AND CURBS
   g. STAIRS, ACCESS LADDERS, HANDRAILS, AND GUARDRAILS
   h. BUILDING MAINTENANCE DAVIT PEDESTALS, TIE-BACKS, AND FALL ARREST SYSTEMS
3. ALL DELEGATED DESIGNS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.
4. STAIRS:
   a. STEEL STAIRS IN STEEL FRAMED STRUCTURES SHALL BE CONFIGURED SO THE STAIR STRINGERS CONNECT TO THE WEBS OF SUPPORTING STRUCTURAL STEEL FLOOR FRAMING MEMBERS. STAIR STRINGERS MAY NOT CONNECT TO SLABS ON DECK. STAIR STRINGER AND HANGER CONNECTIONS SHALL BE CONFIGURED SO THEY CONNECT TO THE SUPPORTING STRUCTURAL STEEL IN A MANNER THAT IMPOSES NO TORSION UPON THE SUPPORTING STRUCTURAL MEMBER. WHERE STAIR HANGERS MUST FRAME ECCENTRIC TO THE SUPPORTING STEEL, SUPPLEMENTAL FRAMING SHALL BE PROVIDED AS INDICATED ON THE CONTRACT DOCUMENTS TO PREVENT TORSION ON THE SUPPORTING STEEL FRAMING.
   b. DESIGN FRAMING MEMBERS IN COMMUNICATING STAIRS AND MONUMENTAL STAIRS TO LIMIT LIVE LOAD DEFLECTION TO THE SMALLER OF L/600 OR 1/4". SIZE STAIR FRAMING MEMBERS TO PROVIDE A STAIR ASSEMBLY WITH A NATURAL FREQUENCY > 5 HERTZ AND PEAK ACCELERATION, ap/g = 0.015, AS COMPUTED PER AISC DESIGN GUIDE 11 EQUATION 2.3 USING INDOOR FOOTBRIDGE CRITERIA.
   c. SEE ARCHITECTURAL DRAWINGS FOR STEEL STAIR DETAILS. DESIGN OF FRAMING MEMBERS AND CONNECTIONS TO BE BY SPECIALTY ENGINEER, WORKING DIRECTLY WITH THE STAIR DETAILER AND FABRICATOR. WHERE SUPPORT POSTS ARE REQUIRED, PROVIDE 3'-0" SQUARE x 1'-0" THICKENED SLAB WITH (4)#5 BOTTOM AT BASE OF STAIR.
5. FACADE:
   a. DESIGN AND DETAILING OF THE FACADE SYSTEM AND CONNECTIONS TO THE STRUCTURE SHALL TAKE INTO CONSIDERATION THE FOLLOWING MOVEMENTS:
      1. ±1/2" VERTICAL DIFFERENTIAL DEFLECTION OF SLAB EDGES ON ADJACENT FLOORS
      2. ±1/2" HORIZONTAL DIFFERENTIAL DEFLECTION BETWEEN ADJACENT FLOORS
      3. DIFFERENTIAL THERMAL EXPANSION / CONTRACTION BETWEEN FACADE SYSTEM AND SUPPORTING PRIMARY STRUCTURAL SYSTEM
      4. THE FACADE SHALL NOT BE INSTALLED UNTIL AFTER THE SUPERSTRUCTURE HAS BEEN PLUMBED, ALL FRAMING CONNECTIONS HAVE BEEN INSTALLED, AND ALL SHORES AND RESHORES HAVE BEEN REMOVED.
      5. WHERE STRUCTURAL STEEL HORIZONTAL GIRTS ARE PROVIDED, THOSE GIRTS MAY BE USED ONLY TO RESIST LATERAL LOADS FROM THE FACADE. VERTICAL LOADS MAY NOT BE IMPOSED BY THE FACADE UPON THE GIRT FRAMING UNLESS THE SECTIONS AND DETAILS ON THE STRUCTURAL DRAWINGS SPECIFICALLY INDICATE THAT FACADE GRAVITY LOAD CONNECTIONS MAY BE MADE TO THE GIRTS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
   a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS.
      1. DATED 11/22/1966 BY LOUIS C. KINGSCOTT & ASSOCIATES, INCORPORATED.
      2. DATED 01/31/1992 BY SCHMIDT ASSOCIATES ARCHITECTS, INC.
   b. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS, AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
2. EXISTING BUILDING MATERIAL PROPERTIES:
   a. STRUCTURAL STEEL: ASTM A36
   b. CONCRETE FOOTINGS & FOUNDATIONS: FC' = 3000 PSI
   c. CONCRETE SLABS ON GRADE: FC' = 4000 PSI
   d. CONCRETE REINFORCING: ASTM A615 GRADE 60
   e. REINFORCED MASONRY: f'm = 1100 PSI
3. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY TO PREVENT DAMAGE TO EXISTING ELEMENTS WHICH ARE TO REMAIN.
4. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
5. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE AND SITES THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
6. ALL CONSTRUCTION IS NEW UNLESS IDENTIFIED AS EXISTING, "(E)". THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS UON. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.
7. REINFORCING STEEL IN EXISTING CONCRETE SHALL BE LOCATED PRIOR TO INSTALLATION OF NEW OPENINGS OR CORING OF HOLES IN THE CONCRETE. REINFORCING STEEL MAY NOT BE CUT WITHOUT APPROVAL FROM THE ENGINEER.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT NO. 46105 DATED SEPTEMBER 24, 2024 AND ADDENDUM NO. 1 DATED OCTOBER 25, 2024 BY PATRIOT ENGINEERING AND ENVIRONMENTAL, INC. FOLLOW RECOMMENDATIONS IN REPORT FOR ALL FOUNDATION WORK. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES:

FROST DEPTH	2 FT (HEATED) 2.5 FT (UNHEATED)

3. SUBGRADE PREPARATION FOR FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SHALL BE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
4. ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
5. PROPERTY LINE LOCATIONS INDICATED ON FOUNDATION PLANS ARE APPROXIMATE. SEE ARCHITECTURAL AND/OR SITE DRAWINGS FOR LOCATION OF THE STRUCTURE ON THE SITE.
6. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING / BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM ARE IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS.
7. SOIL BEHIND RETAINING WALLS AND BASEMENT WALLS SHALL BE DRAINED TO ELIMINATE HYDROSTATIC PRESSURE BEHIND THE WALL. DESIGN OF SUCH WALL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUNDWATER, OR SEEPAGE. DETAILS OF GROUNDWATER INFORMATION SHALL BE OBTAINED FROM THE GEOTECHNICAL REPORT. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION, PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
9. PROVIDE SHORING WHERE THERE IS INSUFFICIENT SPACE FOR STABLE-SLOPED EMBANKMENTS.
10. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
11. ANY REQUIRED IMPORT FILL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.
12. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL. BELOW GRADE UTILITY OR PIPE ELEVATIONS, WHERE SHOWN, ARE INDICATED FOR REFERENCE ONLY. REQUIRED ELEVATIONS SHALL BE DETERMINED BY OTHERS AND COORDINATED WITH THE FOUNDATIONS.
13. WHERE GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF WALLS, BACKFILL SHALL BE PLACED SO THAT IT IS NOT UNBALANCED BY MORE THAN 2 FEET ON EITHER SIDE.
14. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

SHALLOW FOUNDATIONS

1. SEE THE GEOTECHNICAL REPORT FOR SHALLOW FOUNDATION REQUIREMENTS.
2. SHALLOW FOUNDATIONS SHALL HAVE THE FOLLOWING MINIMUM NET ALLOWABLE SERVICE LOAD BEARING PRESSURES:

SERVICE LOAD BEARING PRESSURES:	
NET ALLOWABLE BEARING PRESSURE	4000 PSF

3. FOUNDATION ELEVATIONS SHOWN INDICATE LOCATIONS WHERE ADEQUATE SOIL BEARING PRESSURE IS ANTICIPATED. IF INADEQUATE BEARING CAPACITY IS ENCOUNTERED, CONTACT STRUCTURAL ENGINEER FOR RESOLUTION. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
4. ALL FOUNDATIONS SHALL BEAR BELOW THE FROST DEPTH, OR LOWER WHERE INDICATED ON FOUNDATION PLAN. IN CASE OF CONFLICT, NOTIFY THE DESIGN PROFESSIONALS IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.
5. FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL, AND CLEAN AND FREE OF LOOSE DEBRIS AND STANDING WATER AT TIME OF CONCRETE PLACEMENT.
6. WHERE FOUNDATIONS BEAR ON ROCK, FOUNDATIONS SHALL BEAR ON THAT ROCK OR ON LEAN CONCRETE FILL.
7. NEW FOOTING BEARING ELEVATIONS SHALL MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE OCCURRING UON.
8. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL UON IN THE GEOTECHNICAL REPORT. CONTACT STRUCTURAL ENGINEER WHERE ADEQUATE SLOPE IS NOT ACHIEVED.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UON.

REINFORCING STEEL UON	ASTM A615, GR 60	Fy=60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy=65 KSI

2. CONCRETE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE EXPOSURE	MEMBER	REINFORCE MENT	COVER (IN)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#6 TO #18	2
		#5 AND SMALLER	1 1/2
OTHER	BOUNDARY ELEMENTS	ALL	1 1/2

3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
4. REINFORCING STEEL SHALL BE INSTALLED TO WITHIN THE FOLLOWING TOLERANCES. INDICATED TOLERANCES ARE PER ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".

ITEM FOR WHICH TOLERANCE IS BEING MEASURED	PERMITTED TOLERANCE
CONCRETE COVER FOR SLAB TOP AND BOTTOM BARS	±1/4"
COVER FOR OTHER REINFORCING STEEL	±3/8"
SPECIFIED SPACING BETWEEN PARALLEL BARS IN SLAB	± (SPECIFIED SPACING/4) BUT NOT TO EXCEED 1"
HORIZONTAL DEVIATION FROM SPECIFIED LOCATION UON	±3"
SPACING AND LOCATION OF BEAM STIRRUPS	± (BEAM DEPTH IN INCHES/12) x 1"
SPACING AND LOCATION OF COLUMN TIES	± (MINIMUM COLUMN DIMENSION IN INCHES/12) x 1"
LOCATION OF ENDS OF BARS PERPENDICULAR TO SLAB EDGES	±1"
HORIZONTAL LOCATION OF PRESTRESSED TENDONS	±1/2" FOR MEMBER DEPTH = 24" ±1" FOR MEMBER DEPTH > 24"
VERTICAL LOCATION (DRAPE) OF PRESTRESSED TENDONS	±1/4" FOR MEMBER DEPTH = 8" ±3/8" FOR MEMBER DEPTH 8" < D = 24" ±1/2" FOR MEMBER DEPTH > 24"

THE ABOVE LIST OF PERMITTED TOLERANCES SHALL BE PROVIDED ON ALL REINFORCING STEEL PLACING DRAWINGS AND ON ALL POST-TENSIONED TENDON PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT PROVIDE THIS LIST OF TOLERANCES WILL BE REJECTED.

5. FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED UON.
6. WELDING OF REINFORCING STEEL OTHER THAN A706 IS PROHIBITED. WELDING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH AWS D1.4 OR D1.8.
7. HEADED STUDS AND DEFORMED BAR ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. ALL WELDED WIRE REINFORCING SHALL BE LAP SPLICED 2 PANELS (1'-0" MIN).
9. SPLICING:
   a. SPLICES IN REINFORCING STEEL SHALL BE MADE ONLY AT THOSE LOCATIONS WHERE SPLICES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND AT THOSE LOCATIONS WHERE SPLICES HAVE BEEN DETAILED ON THE REINFORCING STEEL PLACING DRAWINGS THAT HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. ALL SPLICES SHALL BE CLASS B TENSION LAP SPLICES UON.
   b. MECHANICAL SPLICE COUPLERS MAY BE USED INSTEAD OF TENSION LAP SPLICES AT THE CONTRACTOR'S OPTION AT ANY LOCATION. MECHANICAL SPLICE COUPLERS MUST BE USED WHERE SPLICING #14 AND LARGER BARS, INCLUDING WHERE SPLICING #14 AND LARGER BARS TO #11 AND SMALLER BARS. STAGGER MECHANICAL SPLICES IN ADJACENT BARS 30" MINIMUM.
   c. COMPRESSION LAP SPLICES MAY BE USED ONLY AT THOSE LOCATIONS WHERE SUCH SPLICES ARE SPECIFICALLY INDICATED. STAGGER SPLICES WHERE REQUIRED TO PROVIDE 1 1/2" MINIMUM CLEAR SPACING BETWEEN REINFORCING STEEL AT SPLICE LOCATIONS.
10. ALL HOOKS SHALL BE STANDARD HOOKS OR STANDARD STIRRUP HOOKS UON. STANDARD STIRRUP HOOKS SHALL HAVE CONTINUOUS BAR AT INSIDE CORNER OF HOOK.
11. VERTICAL REINFORCING STEEL IN CONCRETE AND MASONRY WALLS WITH ONE LAYER OF REINFORCING BARS SHALL BE INSTALLED IN THE CENTER OF THE WALL UON.
12. STANDARD STIRRUP HOOKS FOR #3, #4, AND #5 BARS SHALL BE PROVIDED IN SLABS LESS THAN 9" THICK.
13. DOWELS SHALL MATCH GRADE, SIZE, SPACING, AND QUANTITY OF LAPPED REINFORCING STEEL UON. EXTEND ALL DOWELS FOR FULL DEPTH OF SUPPORTING ELEMENT AND PROVIDE HOOKS UON. DOWELS SHALL NOT BE POST-INSTALLED INTO FRESH CONCRETE.
14. HEADED DEFORMED BARS MAY ONLY BE USED ON #11 AND SMALLER BARS. THREADED OR FORGED HEADS CAN BE USED AT THE FABRICATOR'S DISCRETION.
15. FIELD CUTTING OF REINFORCING STEEL IS PROHIBITED UNLESS INDICATED ON THE REINFORCING PLACING DRAWINGS.
16. HEATING OF BARS FOR BENDING IS PROHIBITED.
17. PROVIDE EPOXY-COATED REINFORCING STEEL IN ALL PARKING LEVEL SLABS, PLAZA SLABS, BALCONIES, TERRACES, AND ALL OTHER SLABS EXPOSED TO WEATHER AND ON COLUMN TIES AND ALL WALL REINFORCING STEEL WITHIN 4 FEET OF THE BOTTOM OF THOSE SLABS.
18. REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315. THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.
19. REINFORCING STEEL SPACINGS ARE CENTER-TO-CENTER DIMENSIONS UON. REINFORCING STEEL SHOWN IN SECTION PERPENDICULAR TO THE CUT ARE CONTINUOUS UON.
20. THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.
21. A LIST OF ALL APPLICABLE REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE UON.
2. CONCRETE MATERIALS SHALL CONFORM TO:

PORTLAND LIMESTONE CEMENT	ASTM C595, TYPE IL
FLY ASH	ASTM C618, TYPE C OR F
SLAG CEMENT	ASTM C989
FINE AND COARSE AGGREGATE	ASTM C33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494

3. CONCRETE STRENGTHS SHALL CONFORM TO:

LOCATION	f'c AT 28 DAYS (PSI)	MAX PERMITTED W/C	EXPOSURE CLASS
ALL FOUNDATION CONCRETE UON	4000	0.55	F2, S1, W1, C1
SLAB-ON-GRADE UON	3000	0.55	F0, S0, W0, C0
EXTERIOR SLAB-ON-GRADE	3000	0.55	F2, S1, W1, C1
NORMAL-WEIGHT SLAB ON DECK	3500	0.55	F0, S0, W0, C0
POURABLE FILL AND MUD SLABS	1000	N/A	F0, S0, W0, C0

* SEE SCHEDULE OR ELEVATIONS FOR AREAS OF DIFFERENT STRENGTH REQUIREMENTS.
** WALLS MONOLITHIC WITH COLUMNS OR PIERS SHALL BE CONSTRUCTED USING CONCRETE SPECIFIED FOR THE COLUMNS WITHIN 15 FEET MINIMUM TO EACH SIDE OF THE COLUMNS.

4. AIR ENTRAINMENT:

NOMINAL MAXIMUM AGGREGATE SIZE	REQUIRED AIR CONTENT PER EXPOSURE CATEGORY	
	F1	F2
3/8"	6%	7.5%
1/2"	5.5%	7%
3/4"	5%	6%
1"	4.5%	6%

   a. CONCRETE IN THESE LOCATIONS: EXTERIOR SLABS-ON-GRADE AND FOUNDATION WALLS SHALL BE AIR ENTRAINED WITH THE APPROPRIATE PERCENTAGE AIR CONTENT LISTED IN THE TABLE ABOVE AS APPLICABLE FOR THE INDICATED EXPOSURE CLASS AND NOMINAL MAXIMUM AGGREGATE SIZE IN THE CONCRETE MIX. THE REQUIRED AIR CONTENT VALUE MAY BE REDUCED BY 1% FOR ALL CONCRETE WITH COMPRESSIVE STRENGTH GREATER THAN 5000 PSI. THE PERMITTED TOLERANCE ON THE REQUIRED AIR CONTENT IS ±1.5%.
   b. AIR ENTRAINMENT SHALL CONFORM TO UL RATING REQUIREMENTS FOR FIRE RESISTANCE.
5. REQUIRED NOMINAL MAXIMUM COARSE AGGREGATE SIZE:

CONCRETE ELEMENT	REQUIRED NOMINAL MAXIMUM COARSE AGGREGATE SIZE*
ALL CONCRETE UON	1"
VOIDED FILIGREE SLABS	3/4"
TOPPING SLABS LESS THAN 3" THICK	3/8"

* SMALLER NOMINAL MAXIMUM COARSE AGGREGATE SIZE SHALL BE USED WHERE REQUIRED PER ACI 318.

6. COMBINED AGGREGATE GRADING FOR STRUCTURAL SLABS: 8-22% BY WEIGHT OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
7. ALL FOUNDATION ELEMENTS SHALL BE CENTERED UNDER WALLS, PIERS, OR COLUMNS UON.
8. "ROUGH JOINTS" ARE JOINTS ROUGHENED TO AN AMPLITUDE OF 1/4" AND FREE AND CLEAN OF LAITANCE. PROVIDE ROUGH JOINTS AT ALL CONSTRUCTION JOINTS UON.
9. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF ALL CONSTRUCTION JOINTS WHERE JOINTS ARE NOT INDICATED ON THE DRAWINGS.
10. CONSTRUCTION JOINTS IN CAST-IN-PLACE CONCRETE SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON REINFORCING STEEL PLACING DRAWINGS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS UON. ALL REINFORCING TO BE CONTINUOUS THROUGH JOINTS UON.
11. JOINTS ABUTTING EXISTING CONCRETE CONSTRUCTION SHALL BE ROUGH JOINTS UON.
12. CONSTRUCTION JOINTS IN SLAB ON DECK SHALL BE LOCATED AS FOLLOWS:
   a. JOINTS PERPENDICULAR TO THE DECK SPAN SHALL BE LOCATED MIDWAY BETWEEN ADJACENT PARALLEL BEAMS.
   b. JOINTS PARALLEL TO GIRDERS SHALL BE LOCATED 4 FEET AWAY FROM THE GIRDERS.
   c. JOINTS PERPENDICULAR TO GIRDERS SHALL BE LOCATED NO FARTHER THAN 'S'/2 FROM ONE END OF THE GIRDER WHERE 'S' IS THE DIMENSION BETWEEN ADJACENT BEAMS FRAMING TO THE GIRDER.
13. PROVIDE TEMPLATES TO SET EMBEDDED ITEMS.
14. INSTALLATION OF ELECTRICAL CABLE, CONDUIT, AND PIPING IN OR THROUGH CONCRETE COLUMNS AND WALLS IS PROHIBITED UNLESS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF PIPING IN CAST-IN-PLACE CONCRETE IS PROHIBITED UNLESS APPROVED BY STRUCTURAL ENGINEER PRIOR TO INSTALLATION. DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING PROPOSED PLACEMENT OF ELECTRICAL CABLE AND CONDUIT IN SLABS. THOSE DRAWINGS SHALL SHOW SIZES AND DIMENSIONED LOCATIONS OF ALL CABLE AND CONDUIT.
15. ELECTRICAL CABLE AND CONDUIT (HEREAFTER REFERRED TO AS CONDUIT) MAY BE INSTALLED IN SLABS ON DECK SUBJECT TO THE FOLLOWING CONSTRAINTS:

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S0.0	GENERAL NOTES
S0.1	GENERAL NOTES
S0.2	TESTING, INSPECTIONS, AND OBSERVATIONS
S0.3	3D VIEW, SYMBOLS AND ABBREVIATIONS
S0.4	WIND UPLIFT PLAN AND SNOW DRIFT PLAN
S1.0	FOUNDATION PLAN
S1.1	LOW ROOF FRAMING PLAN
S1.2	SECOND FLOOR FRAMING PLAN
S1.3	UPPER ROOF FRAMING PLAN
S2.0	BUILDING ELEVATIONS
S2.1	WALL SECTIONS
S3.0	FOUNDATION DETAILS
S3.1	FOUNDATION DETAILS
S4.0	FRAMING DETAILS
S4.1	FRAMING DETAILS
S4.2	FRAMING DETAILS
S5.0	CMU DETAILS
S5.1	CMU DETAILS
GRAND TOTAL: 18	

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REF. SCALE IN INCHES
PROJECT #24001305.00

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HEATHER L. HEIDENREICH REGISTERED No. PE INDIANA PROFESSIONAL ENGINEER
EXP 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

GENERAL NOTES

S0.0

1/29/2025 3:00:51 PM

a. CONDUIT SHALL BE NO LARGER THAN 1 1/2" MAXIMUM OUTSIDE DIAMETER.
b. PARALLEL CONDUITS SHALL BE INSTALLED IN A SINGLE LAYER AND SHALL BE SPACED NO CLOSER THAN 3".
c. CONDUIT RUNNING PERPENDICULAR OR SKEWED TO THE DECK SPAN MAY BE INSTALLED DIRECTLY ON TOP OF THE DECK. CONDUIT RUNNING PARALLEL TO THE DECK SPAN SHALL BE INSTALLED 1" CLEAR ABOVE THE TOP OF THE DECK.
d. REQUIRED MINIMUM CLEAR COVER BETWEEN TOP OF SLAB AND TOP OF CONDUIT EQUALS 1".
e. ONLY ONE LAYER OF CONDUIT MAY CROSS OVER ANOTHER LAYER OF CONDUIT AT ANY LOCATION.
f. INSTALLATION OF CONDUIT ON TOP OF THE CONTINUOUS WELDED WIRE FABRIC SLAB REINFORCING STEEL IS NOT PERMITTED.
g. LOCATIONS WHERE MULTIPLE CONDUITS EXIST VERTICALLY FROM THE SLAB SHALL BE TREATED AS A MULTIPLE SLAB OPENING AND ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED AROUND THE EFFECTIVE SLAB OPENING AS REQUIRED.
h. COORDINATED DRAWINGS SHALL BE SUBMITTED FOR REVIEW SHOWING THE PROPOSED LOCATIONS OF ALL SLAB-EMBEDDED ELECTRICAL CONDUIT. THESE DRAWINGS SHALL SHOW "DRAWN TO SCALE" CONDUIT RUNS, LOCATIONS, AND DIMENSIONS WHERE GROUPED CONDUITS EXIT THE SLABS ALONG WITH LOCATIONS AND DIMENSIONS OF SLAB-EMBEDDED ELECTRICAL BOXES.
i. INSTALLATION OF CONDUIT IN PARKING LEVEL SLABS AND SLABS EXPOSED TO WEATHER IS NOT PERMITTED.

16. PROVIDE CONTINUOUS BENTONITE WATERSTOPS IN ALL CONSTRUCTION JOINTS IN BELOW GRADE CONCRETE CONSTRUCTION. COORDINATE WATERSTOPS WITH ARCHITECTURAL DRAWINGS.
17. PROJECTING CORNERS OF WALLS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UON ON ARCHITECTURAL DRAWINGS.
18. SLOPE SLABS TO DRAINS. SEE ARCHITECTURAL AND MEP DRAWINGS FOR DRAIN LOCATIONS AND SLOPE REQUIREMENTS. SLAB THICKNESSES SHOWN ON DRAWINGS ARE MINIMUMS.
19. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS ON DECK WITHIN 7 DAYS AFTER CONCRETE IS PLACED.
20. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS UNLESS THE WORK IS SHORED.
21. NOTIFY THE ARCHITECT 48 HOURS MINIMUM PRIOR TO ALL POURS.
22. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
23. ALL FORMWORK, SHORING, AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. ALL SUBMISSIONS SHALL BE SIGNED AND SEALED.
24. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS IS MINIMUM THICKNESS. PROVIDE ALLOWANCES FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED.
25. PROVIDE SELF-LEVELING UNDERLAYMENT AT SLABS ON DECK AS REQUIRED TO MEET FLOOR FLATNESS AND LEVELNESS REQUIREMENTS.
26. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATIONS OF PROPOSED CONCRETE CORES.
27. REINFORCING STEEL SHALL NOT BE DAMAGED WHEN DRILLING CONCRETE.
28. ADHERE TO ACI 305R AND ACI 306R FOR HOT AND COLD WEATHER CONCRETE CONSTRUCTION.
29. DRYPACK AND GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
30. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AND INSPECTION AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
31. CONTRACTOR SHALL SUBMIT A SINGLE DIMENSIONED AND COORDINATED DRAWING FOR EACH LEVEL SHOWING THE LOCATIONS OF THE FOLLOWING:
    a. SLAB OPENINGS AND PENETRATIONS
    b. SLEEVES, CAST-IN-PLACE AND POST-INSTALLED FIELD CORED
    c. SLAB-EMBEDDED ELECTRICAL CABLE AND CONDUIT
    d. EMBEDDED PLATES AND ALL OTHER EMBEDDED ITEMS
32. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND DETAILS OF ALL ARCHITECTURAL FEATURES IN THE CONCRETE. SEE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR ALL CONCRETE FINISHES.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".
2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, f'm	2500 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	3250 PSI
GROUT	2500 PSI

3. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS	ASTM C90, NORMAL-WEIGHT UON
MORTAR	ASTM C270, TYPE S UON ASTM C270, TYPE M (WHERE IN CONTACT WITH SOIL)
GROUT	ASTM C476
JOINT REINFORCING	ASTM A82

4. WIRE REINFORCING PER ASTM A82 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CORROSION RESISTANT HORIZONTAL LADDER-TYPE JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING:

RUNNING BOND	9GA @ 16" OC (ALL WIDTHS)
BELOW GRADE WALLS	9GA @ 8" OC

5. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS.
6. PROVIDE MINIMUM 1" GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL UON. VERTICAL REINFORCING BARS SHALL BE SECURELY HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
7. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UON.
8. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWEL SIZE AND LOCATION IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL WITHIN 6" TOLERANCE. VERTICAL REINFORCEMENT TO RUN FULL HEIGHT OF WALL UON.
9. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
10. GROUT SOLID ALL COURSES BELOW GRADE.
11. LIFTS OF GROUT SHALL BE KEYED 1 1/2" INTO THE PREVIOUS COURSE BELOW.
12. HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
13. ALL BOND BEAMS TO HAVE A MINIMUM 8" DEPTH. PROVIDE TALLER BOND BEAMS AS NEEDED FOR COURSING OR TO AVOID INTERFERENCE BETWEEN REINFORCING STEEL AND POST-INSTALLED ANCHORS. CUT AND STEP BOND BEAM AS REQUIRED.
14. PROVIDE HORIZONTAL TIES WHERE CMU ABUTS CONCRETE.
15. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS UON. ADDITIONAL LINTELS MAY BE REQUIRED. COORDINATE WITH STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE BEFORE CONSTRUCTION OF CMU WALL.
16. PIPE AND CONDUIT SHALL NOT BE PERMITTED IN CELLS WITH VERTICAL REINFORCEMENT. CONDUIT TO BE LOCATED TO AVOID ALL HORIZONTAL REINFORCEMENT. NO ALUMINUM CONDUITS PERMITTED.
17. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND UON.
18. SEE ARCHITECTURAL DRAWINGS FOR OTHER WALL ASSEMBLY COMPONENTS.
19. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF ALL NON-LOAD BEARING CMU WALLS.
20. MINIMUM WALL VERTICAL REINFORCING SHALL BE #5 BAR FULL HEIGHT IN CENTER OF GROUTED CELL AT WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS AT WALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT INTERVALS NOT TO EXCEED 48" UON.
21. MINIMUM HORIZONTAL REINFORCING SHALL BE (2)#5 BARS IN CENTER OF MINIMUM 16" DEEP CONTINUOUS GROUTED BOND BEAM AT ELEVATED FLOOR, INTERMEDIATE STAIR LANDINGS, AND ROOF LINES AND (1)#5 BAR IN CENTER OF 8" DEEP CONTINUOUS GROUTED BOND BEAM AT TOP OF PARAPET OR FREE-STANDING WALL AND AT INTERVALS NOT TO EXCEED 48" UON. PLACE BARS AT ELEVATED FLOOR AND ROOF LINES CONTINUOUS THROUGH CONTROL JOINTS.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" OR LESS IN WIDTH THAT ARE AT LEAST 1 COURSE BELOW THE BOND BEAM AT THE TOP OF WALL.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS.
3. LINTELS IN NON-BEARING WALLS AND CLADDING SHALL BE SIZED PER THE FOLLOWING:

SPAN, L	4" CLADDING	8" CMU *
0' < L = 4'-0"	L4x4x1/4	(2) L3 1/2x3 1/2x1/4
4'-0" < L = 6'-0"	L6x4x5/16 (LLV)	(2) L4x3 1/2x3/8 (LLV)
6'-0" < L = 8'-0"	L7x4x3/8 (LLV)	(2) L5x3 1/2x3/8 (LLV)

CMU BLOCK OPTIONS				
SPAN, L	6"	8"	10"	12"
0' < L = 4'-0"	8" DEEP w/ (1)#4 BOT	8" DEEP w/ (1)#4 BOT	8" DEEP w/ (1)#5 BOT	8" DEEP w/ (1)#5 BOT
4'-0" < L = 6'-0"	8" DEEP w/ (1)#4 BOT	8" DEEP w/ (1)#5 BOT	8" DEEP w/ (1)#5 BOT	16" DEEP w/ (1)# 5 BOT
6'-0" < L = 8'-0"	16" DEEP w/ (1)# 4 BOT	16" DEEP w/ (1)# 4 BOT	16" DEEP w/ (1)# 5 BOT	16" DEEP w/ (1)# 5 BOT
8'-0" < L = 10'-0"	16" DEEP w/ (1)# 5 BOT	16" DEEP w/ (2)# 5 BOT	16" DEEP w/ (2)# 5 BOT	16" DEEP w/ (2)# 5 BOT

*ALL ANGLES TO BE BACK-TO-BACK AND WELDED TOP AND BOTTOM 3" @ 12".

4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES UON.
5. TEMPORARY SHORING OF CMU LINTELS MUST BE PROVIDED UNTIL CMU HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED UON.

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE SHAPES	ASTM A992	Fy=50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy=36 KSI
HSS SECTIONS, SQ/RECT	ASTM A500, GR C	Fy=50 KSI
BASE AND CONNECTION PLATES	ASTM A572	Fy=50 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy=36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv=120 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED STUD ANCHORS (HSA)	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS UON. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM SNUG TIGHT CONDITION UON.
5. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED UON. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
6. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4.
7. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING INDICATED. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
8. HEADED STUD ANCHORS (HSA): SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE HSA AND THE STEEL SHAPE. THE HSA SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8"Ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"Ø.
9. MINIMUM HORIZONTAL CONCRETE COVER FOR HSA TO BE 2".
10. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE DRAWINGS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
11. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.
12. PROVIDE ONE SHOP COAT OF PAINT ON ALL STRUCTURAL STEEL NOT COVERED WITH CONCRETE, FIREPROOFING, MASONRY, OR AT CONTACT SURFACES AT HIGH STRENGTH BOLTS.
13. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
14. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
15. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OR TORCHING OF HOLES, CUTS, AND OTHER FIELD MODIFICATIONS SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
16. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. FOR MISCELLANEOUS STEEL NOT DETAILED SPECIFICALLY ON THE STRUCTURAL DRAWINGS.
17. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
18. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR REVIEW AND APPROVAL BEFORE FABRICATION.
19. ALL WELDING ELECTRODES SHALL BE E70XX UON.

STEEL JOISTS

1. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED.
2. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:

	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING (IN)	
JOIST TYPE/SERIES	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
LH/DLH 02-06	3/16	2 1/2	3/4	A307	2 1/2	6
LH/DLH 07-17	1/4	2 1/2	3/4	A307	4	6
LH/DLH 18-25	1/4	4	3/4	A325	6	6

WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT UON.

3. ALL ROOF JOISTS SHALL BE DESIGNED FOR A MINIMUM 15 PSF NET WIND UPLIFT (ASD). SEE S0.3 FOR WIND UPLIFT PLAN.
4. SPECIAL JOIST DEFLECTION REQUIREMENTS:
    a. ROOF JOISTS: LIVE LOAD = L/360 & TOTAL LOAD = L/240
5. PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR SPECIAL JOIST DESIGNS. JOIST DESIGNER SHALL UTILIZE LOADINGS INDICATED ON THE STRUCTURAL DRAWINGS.
6. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED ABOVE. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE JOIST MANUFACTURER SHALL PROVIDE DIRECTION FOR REMOVAL AND REPLACEMENT OF ANY BRIDGING.
7. HANGING OF MISCELLANEOUS ITEMS IS NOT PERMITTED FROM BRIDGING / BRACING.
8. PROVIDE ANCHORS AT EACH END OF EACH ROW OF BRIDGING TOP AND BOTTOM CHORDS EXCEPT AT EXPANSION JOINTS.
9. ALL JOIST HEADERS AND ACCESSORIES SHALL BE DESIGNED AND FURNISHED BY THE JOIST FABRICATOR.
10. STEEL JOISTS SHALL BE TOP CHORD BEARING UON.
11. THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR REVIEW AND APPROVAL BEFORE FABRICATION.
12. PROVIDE SLOPED JOIST SEATS AS REQUIRED TO MEET ROOF SLOPE REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
    a. CURRENT VERSION OF VULCRAFT CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS
    b. SDI DIAPHRAGM DESIGN MANUAL 4 FOR DIAPHRAGM LOADS
3. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
4. FOR PENETRATIONS LESS THAN OR EQUAL TO 12"Ø OR 12"x12", FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR. SEE STRUCTURAL FRAMING DETAILS FOR ANY OPENING EXCEEDING LIMITS NOTED.
5. SUBMIT SHOP DRAWINGS SHOWING DECKING LAYOUT, DECK GAUGE, DECK DIRECTION, FASTENERS, AND FASTENING PATTERN FOR REVIEW AND APPROVAL.
6. FURNISH DECKING IN MINIMUM LENGTHS TO ACHIEVE 3-SPAN CONDITION UON.
7. ROOF DECK:
    a. ALL ROOF DECK SHALL BE PRIME PAINTED GRAY TO CONFORM TO ASTM A1008 A1039.
    b. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDE ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER UON.
    c. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
8. COMPOSITE DECK:
    a. ALL FLOOR DECK SHALL BE GALVANIZED TO CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
    b. CONDUITS SHALL NOT BE PLACED IN SLAB ON DECK WITHOUT COORDINATION WITH THE STRUCTURAL ENGINEER UON.
    c. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN COMPOSITE DECK WITH THE STRUCTURAL ENGINEER UON.
    d. COMPOSITE DECK HAS BEEN DESIGNED FOR THE UNSHORED CLEAR SPAN. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS IS A MINIMUM THICKNESS. CONTRACTOR TO PROVIDE CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM AND DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED. DO NOT INSTALL MORE THAN 1" OF ADDITIONAL CONCRETE WITHOUT NOTIFYING STRUCTURAL ENGINEER.
    e. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.

COLD-FORMED STEEL (CFS) DELEGATED

1. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS SHALL CONFORM TO THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL METALS, AISI S100.
2. THE STRUCTURAL DRAWINGS DO NOT REFLECT THE ENTIRE SCOPE OF WORK REQUIRED FOR COLD-FORMED STEEL FRAMING AND CONNECTIONS. COLD-FORMED STEEL FRAMING SHALL BE PROVIDED FOR AND COORDINATED WITH ARCHITECTURAL, MEP, AND OTHER DRAWINGS.
3. COLD-FORMED STEEL FRAMING AND CONNECTIONS INDICATED OR REFERENCED IN THE CONTRACT DOCUMENTS ARE FOR PURPOSES OF CONVEYING DESIGN INTENT ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL SYSTEMS THAT SUPPORT GRAVITY OR LATERAL LOADS SHALL BE THE RESPONSIBILITY OF THE COLD-FORMED STEEL SUBCONTRACTOR AND THEIR STRUCTURAL ENGINEER. THE DESIGN OF COLD-FORMED STEEL SYSTEMS SHALL CONFORM TO THE GOVERNING BUILDING CODE AND REGULATIONS, AS WELL AS ANY SPECIAL CONDITIONS AND REQUIREMENTS AS INDICATED IN THE CONTRACT DOCUMENTS.
4. SSMA MEMBER DESIGNATIONS ARE SPECIFIED ON THE CONTRACT DOCUMENTS UON. WHERE SPECIFIC MANUFACTURERS ARE SPECIFIED AND PROPRIETARY FRAMING DESIGNATIONS INDICATED, FRAMING BY OTHER MANUFACTURERS MAY BE USED PROVIDED THOSE FRAMING MEMBERS HAVE DIMENSIONS EQUIVALENT TO THE SPECIFIED FRAMING AND ENGINEERING PROPERTIES EQUIVALENT TO OR GREATER THAN THE SPECIFIED FRAMING. SUCH PROPOSED SUBSTITUTIONS ARE PERMITTED ONLY IF APPROVED IN WRITING BY THE DESIGN PROFESSIONALS.
5. STRUCTURAL COLD-FORMED STEEL IS DEFINED AS THE FOLLOWING:
    a. ANY COLD-FORMED STEEL THICKER THAN 20GA (33 MIL)
    b. ANY EXTERIOR COLD-FORMED FRAMING AND CONNECTIONS
    c. ANY LOAD BEARING MEMBER
    d. ANY MEMBER CALLED OUT AND SPECIFIED IN THE STRUCTURAL DRAWINGS
    e. ALL OTHER COLD-FORMED STEEL IS NON-STRUCTURAL AND NOT A PART OF THE STRUCTURAL PACKAGE
6. STRUCTURAL COLD-FORMED STEEL (ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES) SHALL CONFORM TO THE FOLLOWING STANDARDS:

18GA (43 MIL) AND THINNER	ASTM A653, GR 33	Fy=33 KSI
16GA (54 MIL) AND THICKER	ASTM A653, GR 50	Fy=50 KSI
CONNECTION MATERIAL > 3/16"	ASTM A36	Fy=36 KSI
HOT-DIP COATING	ASTM A924, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
ELECTRODES FOR ARC WELDING	AWS 5.1 E60XX	

7. WIND LOADS PERPENDICULAR TO THE PLANE OF EXTERIOR WALLS SHALL BE COMPUTED BASED UPON THE COMPONENT AND CLADDING WIND PRESSURES INDICATED IN THE GENERAL NOTES.
8. DESIGN SHALL INCLUDE DESIGN AND DETAILING OF FRAMING, BRIDGING, TEMPORARY AND PERMANENT BRACING, AND ALL FRAMING CONNECTIONS.
9. COLD-FORMED STEEL COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR A FULL ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE SECURED IN PLACE UNTIL PROPERLY ATTACHED.
10. SPLICING OF COLD-FORMED MEMBERS IS NOT PERMITTED.
11. CUTOUTS, HOLES, OR NOTCHES ARE NOT PERMITTED IN COLD-FORMED STEEL ROOF AND FLOOR JOISTS, HEADERS, OR BEAMS WITHOUT PRIOR WRITTEN APPROVAL OF EITHER THE STRUCTURAL ENGINEER OR THE COLD-FORMED STEEL ENGINEER.
12. CUTTING OF COLD-FORMED STEEL MEMBERS SHALL BE ACCOMPLISHED WITH A SAW OR SHEARS. TORCH CUTTING OF SUCH MEMBERS IS NOT PERMITTED. THE CUTTING OF ANY LOAD BEARING MEMBER IS PROHIBITED.
13. HOLES FIELD CUT THROUGH COLD-FORMED STUD FRAMING SHALL BE MADE WITHIN THE LIMITATIONS OF THE PRODUCT AND THE PRODUCT DESIGN. HOLES SHALL BE REINFORCED AS RECOMMENDED BY THE MANUFACTURER.
14. ALL WELDS SHALL COMPLY WITH THE REQUIREMENTS OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI S100, AND THE STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3.
15. CONNECTIONS SHALL BE MADE BY WELDS, SCREWS, BOLTS, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE MATERIAL COMPATIBLE WITH THE COLD-FORMED STEEL.
16. LIMIT HORIZONTAL COLD-FORMED STUD OUT-OF-PLANE DEFLECTIONS DUE TO WIND LOADS TO THE FOLLOWING:
    a. STUDS BACKING UP BRICK, MASONRY, AND STONE: L/600 OR 0.3" MAX
    b. STUDS BACKING UP ALL OTHER FACADE MATERIALS: L/360 UON
17. TEMPORARY BRACING SHALL BE PROVIDED WHERE REQUIRED TO ENSURE ALIGNMENT UNTIL WALL PANELS ARE INSTALLED AND CONSTRUCTION IS COMPLETED.
18. CONSTRUCTION SHALL NOT BEGIN UNTIL SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED BY THE DESIGN PROFESSIONALS. ALL COLD-FORMED STEEL FRAMING AND CONNECTIONS INCLUDING CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE COLD-FORMED STEEL FRAMING CONTRACTOR'S ENGINEER LICENSED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS, INCLUDING DESIGN CALCULATIONS AND SHOP DRAWINGS, SHALL BE SIGNED AND SEALED BY THAT ENGINEER.

POST-INSTALLED ANCHORS

1. BASIS OF DESIGN ANCHORS:

INSTALLATION CONDITION	ANCHOR TYPE
EXPANSION ANCHORS INTO CONCRETE	HILTI KWIK BOLT TZ2 (ESR-4266)
ADHESIVE ANCHORS INTO CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HIT-Z ROD (ESR-4868)or HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 AND HAS-E THREADED ROD (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 AND HAS-E THREADED ROD (ESR-3814) FOR ALL ADHESIVE ANCHORS, HOLES SHALL BE HAMMER DRILLED AND HOLES MAY BE DRY OR WATER SATURATED.
EXPANSION ANCHORS INTO GROUTED CMU	HILTI KWIK TZ2 (ESR-4561)
ADHESIVE ANCHORS IN GROUTED CMU OR SOLID BRICK	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD (ESR-4143)
ADHESIVE ANCHORS INTO HOLLOW CMU, BRICK OR MULTI-WYTHE BRICK WALLS	HILTI HIT-HY 270 SYSTEM w/ HAS-E THREADED ROD AND APPROPRIATE SCREEN TUBE (ESR-4144)
ADHESIVE DOWELING FOR ANCHORING REINFORCING BARS INTO (E) CONCRETE	HILTI SAFE-SET SYSTEM w/ HIT-HY 200 V3 ADHESIVE (ESR-4868) or HILTI SAFE-SET SYSTEM w/ HIT-RE 500 V3 ADHESIVE (ESR-3814)

2. ALTERNATIVE ANCHORS MAY BE USED IF APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT'S JURISDICTION VERIFYING PROPOSED ALTERNATIVE ANCHORS WILL PROVIDE THE SAME OR GREATER LOAD-CARRYING CAPACITY AS THE SPECIFIED ANCHORS. THE CONTRACTOR SHALL SUBMIT EVALUATION REPORTS. EACH ANCHOR CONFIGURATION SHALL BE EVALUATED AND COMPARED TO THE SPECIFIED ANCHOR.
3. CRACKED CONCRETE IS ASSUMED FOR ALL ANCHORAGE DESIGN CONDITIONS UNLESS IT CAN BE DEMONSTRATED THROUGH ENGINEERING ANALYSIS THAT THE CONCRETE REMAINS UNCRACKED DURING THE GOVERNING ULTIMATE LOAD STATE.
4. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
5. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR EACH SPECIFIED ANCHOR TYPE. THE STRUCTURAL ENGINEER SHALL RECEIVE DOCUMENTATION VERIFYING ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE BEEN TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.
6. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPROVED CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THE ACCEPTABILITY OF CERTIFICATIONS OTHER THAN THE ACI/CRSI ADHESIVE INSTALLER CERTIFICATION WILL BE DETERMINED BY THE STRUCTURAL ENGINEER.
7. CONCRETE SHALL HAVE ACHIEVED DESIGN STRENGTH PRIOR TO INSTALLING POST-INSTALLED ANCHORS. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE THAT HAS CURED FOR A MINIMUM OF 21 DAYS.
8. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
9. POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN A MANNER THAT DOES NOT DAMAGE REINFORCING STEEL, CONDUIT OR OTHER EMBEDDED ITEMS. REINFORCING STEEL SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. PLATES AND BRACKETS THROUGH WHICH ANCHORS WILL BE INSTALLED SHALL NOT BE FABRICATED UNTIL AFTER REINFORCING STEEL IS LOCATED AND ANCHOR LOCATIONS ARE ADJUSTED. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER TO OBTAIN ALTERNATIVE ANCHOR LAYOUT WHERE ANCHORS MUST BE RELOCATED TO AVOID INTERFERENCE WITH REINFORCING STEEL.
10. ADHESIVE ANCHORING SYSTEMS ARE PERMITTED TO BE USED FOR INSTALLATION OF REINFORCING STEEL INTO EXISTING CONCRETE ONLY WHERE SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS OR WITH APPROVAL FROM THE STRUCTURAL ENGINEER. LOCATIONS WHERE REINFORCING STEEL WAS INCORRECTLY PLACED OR MISSED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
11. WHERE POST-INSTALLED MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE SPECIFIED, THOSE DEPTHS ARE THE REQUIRED MINIMUM NOMINAL EMBEDMENT DEPTHS. WHERE MECHANICAL ANCHOR EMBEDMENT DEPTHS ARE NOT INDICATED, THE ANCHORS SHALL BE INSTALLED TO THE MAXIMUM EMBEDMENT DEPTH NOTED IN THE MANUFACTURER'S PRODUCT TECHNICAL GUIDE.
12. ADHESIVE ANCHORS SHALL BE INSTALLED WITH A MINIMUM 6" EMBEDMENT DEPTH UON.

ELEVATORS

1. THE ELEVATORS, ASSOCIATED EQUIPMENT, GUIDE RAILS, AND BRACKETS ARE DEFERRED SUBMITTAL ITEMS.
2. PROVISION FOR ELEVATORS, ASSOCIATED EQUIPMENT, GUIDE RAILS, AND BRACKETS HAS BEEN INCLUDED IN THE DESIGN OF THE STRUCTURE.

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HEATHER L. HEIDENREICH REGISTERED No. 12200683 STATE OF INDIANA PROFESSIONAL ENGINEER
EXP 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

GENERAL NOTES

S0.1

1/29/2025 3:00:52 PM

TESTING, INSPECTIONS, AND OBSERVATIONS

1. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
   a. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
   b. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
   c. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
   d. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
4. SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
   a. POST-INSTALLED ANCHORS - INSPECTION
5. THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
CONCRETE CONSTRUCTION				
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	ACI 318: CH 20, 25.2, 25.3, 26.2.1-26.6.3	1908.4
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)		X	AISC 341: TABLE J9.1	
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		X	AISC 341: TABLE J9.1	
4. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		X	AISC 341: TABLE J9.1	
5. REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		X	AISC 341: TABLE J9.1	
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		X	AISC 341: TABLE J9.1	
7. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
8. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X	ACI 318: 17.8.2	
9. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
10. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1907.10
11. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
12. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	1908.9
13. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.2(b)	

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
MASONRY CONSTRUCTION - LEVEL 2				
1. PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS		X		ART. 1.5
b. VERIFICATION OF f'm		X		ART. 1.4 B
2. AS CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1, 2.6 A & 2.6 C
b. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND ANCHORAGES		X		ART. 3.4 & 3.6 A
c. SAMPLE PANEL CONSTRUCTION		X		ART. 1.6 D
3. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		ART. 3.2 D & 3.2 F
b. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X	SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	ART. 3.2 E & 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT FOR BONDED TENDONS		X		ART. 2.6 B & 2.4 G.1.b
4. DURING CONSTRUCTION:				
a. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE		X		ART. 1.5 & 1.6.3
b. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		ART. 1.5
c. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		ART. 3.3 B
d. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		ART. 3.3 F
e. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X		ART. 1.8 C & 1.8 D
g. PLACEMENT OF GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X			ART. 3.5 & 3.6 C
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE
STRUCTURAL STEEL - FABRICATION			
1. FABRICATION FACILITY			X
2. CONNECTION ERECTION AND ASSEMBLY	X	X	
3. SINGLE PASS FILLET WELDS 5/16" OR LESS	X	X	X
4. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	X	X	X
5. SHEAR STUD PLACEMENT	X	X	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE
STRUCTURAL STEEL - ERECTION			
1. STRUCTURAL STEEL ERECTION	X	X	
2. CONNECTION ERECTION AND ASSEMBLY	X	X	
3. SINGLE PASS FILLET WELDS 5/16" OR LESS	X	X	X
4. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	X	X	X
5. SHEAR STUD PLACEMENT	X	X	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO BOLTING - MINIMUM INSPECTION				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	TABLE C-N5.6-1	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	TABLE C-N5.6-1	6.5.1
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O	TABLE C-N5.6-1	2.3.2, 2.7.2, 9.1
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	TABLE C-N5.6-1	4, 8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	TABLE C-N5.6-1	TABLE 6.1(2)
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P[1]	O[1]	TABLE C-N5.6-1	3, 9.1, 9.3
7. PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	TABLE C-N5.6-1	2.2, 8, 9.1

1. DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER BOLTING - MINIMUM INSPECTION				
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	TABLE C-N5.6-3	N/A

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO WELDING - MINIMUM INSPECTION				
1. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	TABLE C-N5.4-1	6.3
2. MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	P	P	TABLE C-N5.4-1	6.2
3. MATERIAL IDENTIFICATION	O	O	TABLE C-N5.4-1	6.2
4. WELDER IDENTIFICATION	O	O	TABLE C-N5.4-1	6.4 (WELDER QUALIFICATION)
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O	O	TABLE C-N5.4-1	
a. JOINT PREPARATION	O	O	TABLE C-N5.4-1	6.5.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O	TABLE C-N5.4-1	5.22
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	O	O	TABLE C-N5.4-1	5.14
d. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE C-N5.4-1	5.17
e. BACKING TYPE AND FIT (IF APPLICABLE)	O	O	TABLE C-N5.4-1	5.9, 5.21.1.1
6. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- & K--JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)	P/O[1]	O	TABLE C-N5.4-1	9.11.2
a. JOINT PREPARATION	P/O[1]	O	TABLE C-N5.4-1	9.11.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P/O[1]	O	TABLE C-N5.4-1	9.11.2
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	P/O[1]	O	TABLE C-N5.4-1	9.11.2
d. TACKING (TACK WELD QUALITY AND LOCATION)	P/O[1]	O	TABLE C-N5.4-1	9.11.2
7. CONFIGURATION AND FINISH OF ACCESS HOLES	O		TABLE C-N5.4-1	6.5.2, 5.16 (& SEE AISC 360 SECT. J1.6)
8. FIT-UP OF FILLET WELDS	P/O[1]	O	TABLE C-N5.4-1	
a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O[1]	O	TABLE C-N5.4-1	5.21.1
b. CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O[1]	O	TABLE C-N5.4-1	5.14
c. TACKING (TACK WELD QUALITY AND LOCATION)	P/O[1]	O	TABLE C-N5.4-1	5.17
9. CHECK WELDING EQUIPMENT	O	O	TABLE C-N5.4-1	6.2, 5.10

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL DURING WELDING - MINIMUM INSPECTION				
1. USE OF QUALIFIED WELDERS	O	O	TABLE C-N5.4-2	6.4
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	TABLE C-N5.4-2	6.2
a. PACKAGING	O	O	TABLE C-N5.4-2	5.3.1
b. EXPOSURE CONTROL	O	O	TABLE C-N5.4-2	5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
3. ENVIRONMENT CONDITIONS	O	O	TABLE C-N5.4-2	
a. WIND SPEED WITHIN LIMITS	O	O	TABLE C-N5.4-2	5.11.1
b. PRECIPITATION AND TEMPERATURE	O	O	TABLE C-N5.4-2	5.11.2
4. WPS FOLLOWED	O	O	TABLE C-N5.4-2	6.3.3, 6.5.2, 5.5, 5.20
a. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE C-N5.4-2	
b. TRAVEL SPEED	O	O	TABLE C-N5.4-2	
c. SELECTED WELDING MATERIALS	O	O	TABLE C-N5.4-2	
d. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE C-N5.4-2	
e. PREHEAT APPLIED	O	O	TABLE C-N5.4-2	5.6, 5.7
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE C-N5.4-2	
g. PROPER POSITION (F, V, H, OH)	O	O	TABLE C-N5.4-2	
h. INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	O	TABLE C-N5.4-2	
5. WELDING TECHNIQUES	O	O	TABLE C-N5.4-2	6.5.2, 6.5.3, 5.23
a. INTERPASS AND FINAL CLEANING	O	O	TABLE C-N5.4-2	5.29.1
b. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE C-N5.4-2	
c. EACH PASS MEETS QUALITY REQUIREMENTS	O	O	TABLE C-N5.4-2	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION				
1. WELDS CLEANED	O	O	TABLE C-N5.4-3	5.29.1
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P	TABLE C-N5.4-3	6.5.1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P[2]	P[2]	TABLE C-N5.4-3	6.5.3
a. CRACK PROHIBITION	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(1)
b. WELD/BASE-METAL FUSION	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(2)
c. CRATER CROSS-SECTION	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(3)
d. WELD PROFILES	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(4), 5.24
e. WELD SIZE	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(6)
f. UNDERCUT	P[2]	P[2]	TABLE C-N5.4-3	TABLE 6.1(7)
g. POROSITY	P[2]	P[2]		TABLE 6.1(8)
4. ARC STRIKES	P	P	TABLE C-N5.4-3	5.28
5. K-AREA[3]	P[2]	P[2]	TABLE C-N5.4-3	N/A
6. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P[2]	P[2]	TABLE C-N5.4-3	5.9, 5.30
7. REPAIR ACTIVITIES	P	P[2]	TABLE C-N5.4-3	6.5.3, 5.25
8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	TABLE C-N5.4-3	6.5.4, 6.5.5
9. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P[2]	P[2]	TABLE C-N5.4-3	6.5.4, 6.5.5

1. FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.
2. DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.
3. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
OPEN-WEB JOISTS				
1. INSTALLATION OF OPEN-WEB JOISTS:				
a. END CONNECTIONS - WELDING AND BOLTED		X	SJI SPEC. LISTED IN SECTION 2207.1	
b. BRIDGING - HORIZONTAL AND DIAGONAL				
c. STANDARD BRIDGING		X	SJI SPEC. LISTED IN SECTION 2207.1	
d. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X		

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
STRUCTURAL DECKING				
1. DECK PLACEMENT AND ATTACHMENT	X	X		

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
SOILS				
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

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HEATHER L. HEIDENREICH REGISTERED No. 12200688 STATE OF INDIANA PROFESSIONAL ENGINEER
EXP 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON. DOCS.
DWR MINKAC
CHK RYAWHA

TESTING, INSPECTIONS, AND OBSERVATIONS

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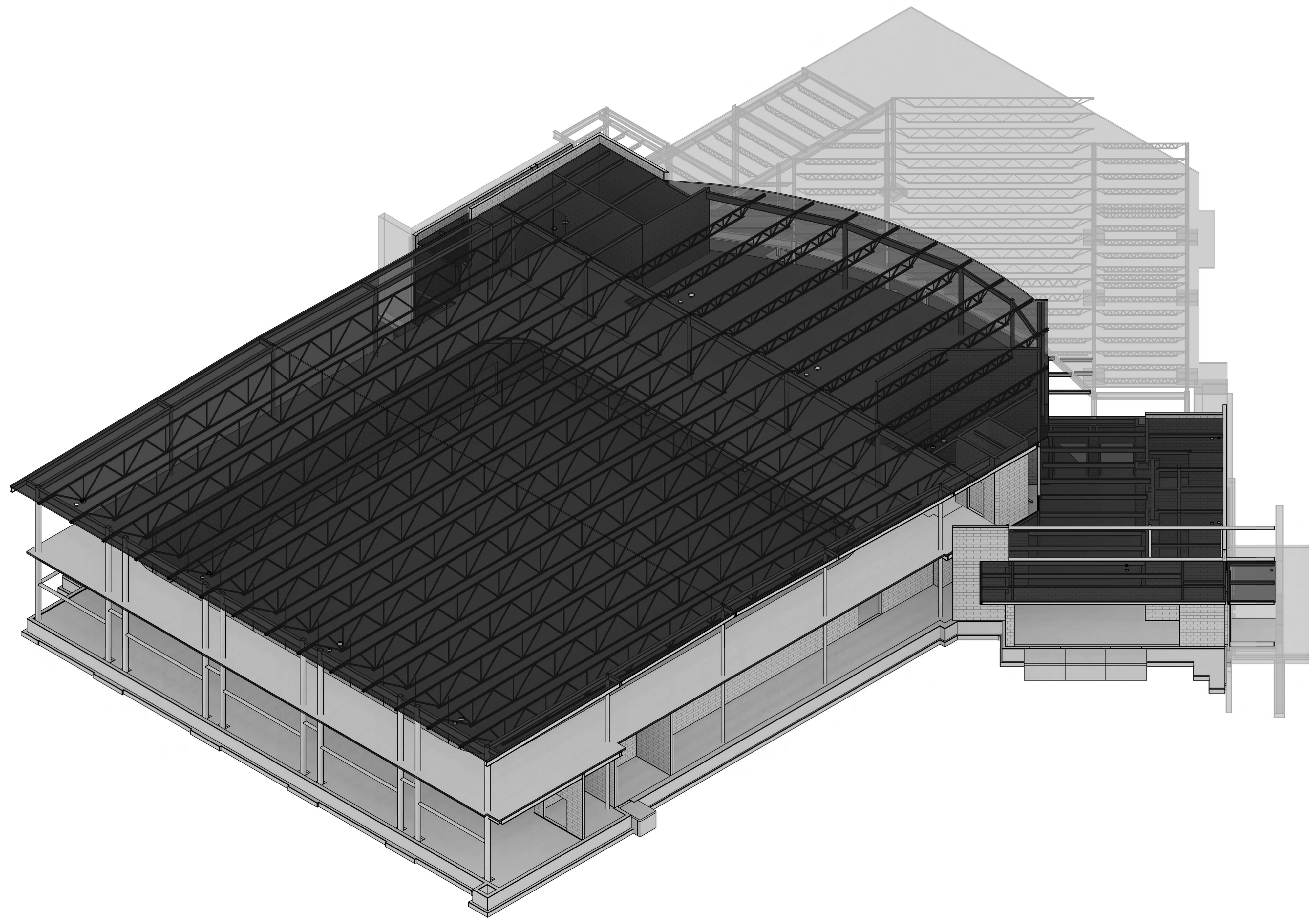
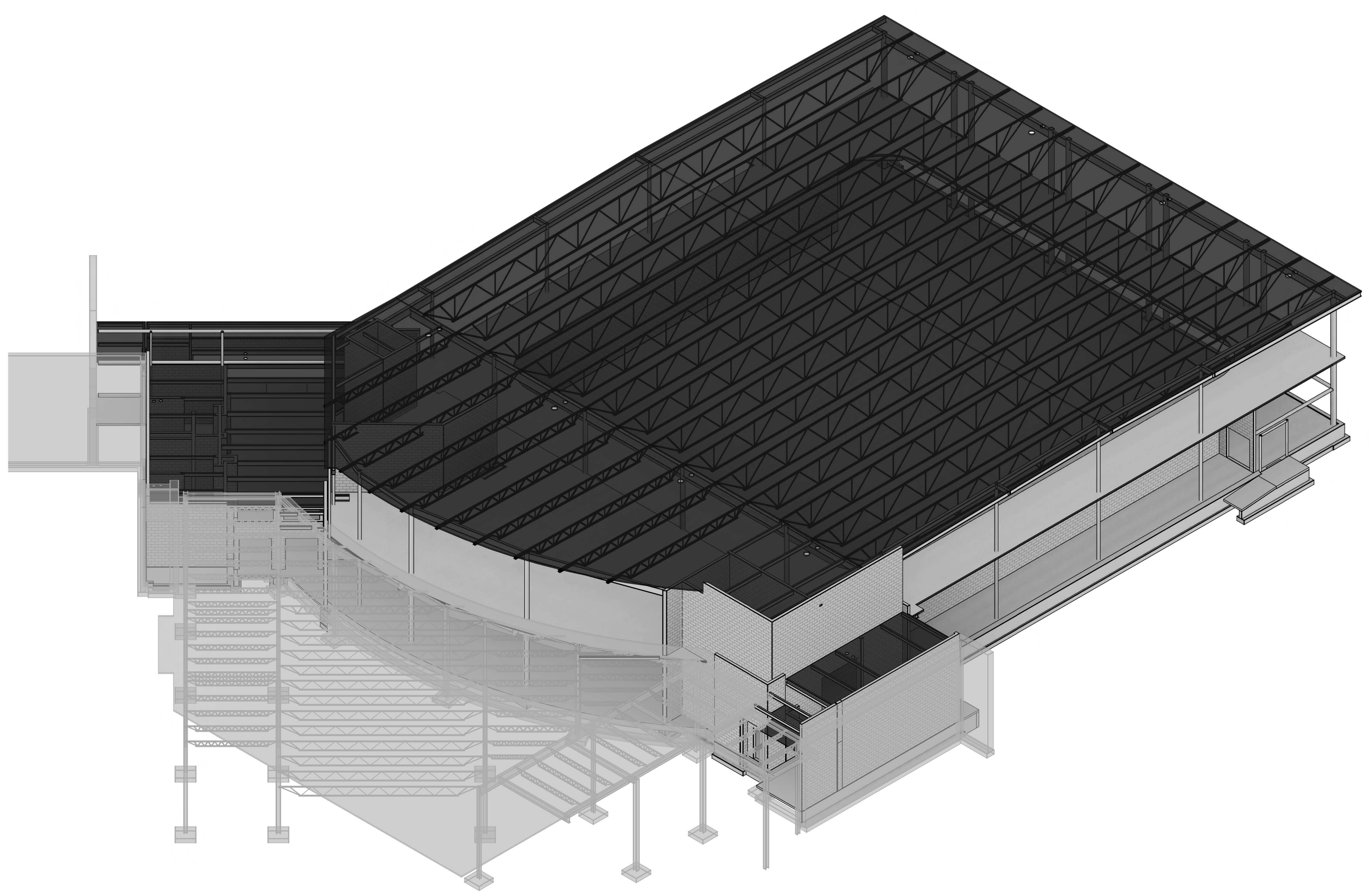


1 3D VIEW (FOR REFERENCE ONLY)



2 3D VIEW (FOR REFERENCE ONLY)

STRUCTURAL SYMBOL LIST

FOUNDATION SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
-X"	SLAB DEPRESSION	2/S3.1
S	STEP IN FOOTING	3/S3.1 & 4/S3.1

CONCRETE SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
RAMP UP	RAMP (DIRECTION)	N/A
	SLAB DROP	

MATERIAL LEGEND

MATERIAL LEGEND:

- CONCRETE
- CONCRETE - EXISTING
- EARTH
- GRAVEL OR GRANULAR FILL
- GROUT OR DRYPACK OR SAND
- CMU OR MASONRY
- METAL / COLD-FORM STUD
- WOOD / STUD
- PRECAST CONCRETE
- STEEL
- OTHER/SPECIALTY

STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
⌀	DIAMETER
(E)	EXISTING
A.B.	ANCHOR BOLT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BF	BRACE FRAME
BM	BEAM
B.N.	BOUNDARY NAILING
BOTT	BOTTOM
BTWN	BETWEEN
CFSF	COLD FORM STEEL FRAMING
CGS	CENTER OF GRAVITY OF THE TENDON
CJP	COMPLETE JOINT PENETRATION WELD
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATION
DIA	DIAMETER
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EFF	EFFECTIVE
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
f 'c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
F.N.	FIELD NAILING
FT	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE OR GAUGE
GALV	GALVANIZED
GLB	GLULAM BEAM
GT	GIRDER TRUSS
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
JT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LBS	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT WT	LIGHTWEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PCF	POUNDS PER CUBIC FOOT
P.H.	PENTHOUSE
PJP	PARTIAL JOINT PENETRATION WELD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSION, -ED, -ING
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SIM	SIMILAR
SL	SNOW LOAD
S.M.S.	SHEET METAL SCREW
SP	SPACE(S)
SPECS	SPECIFICATION(S)
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T.O.	TOP OF
TC	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
tf	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
w/	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

3D VIEW, SYMBOLS AND ABBREVIATIONS

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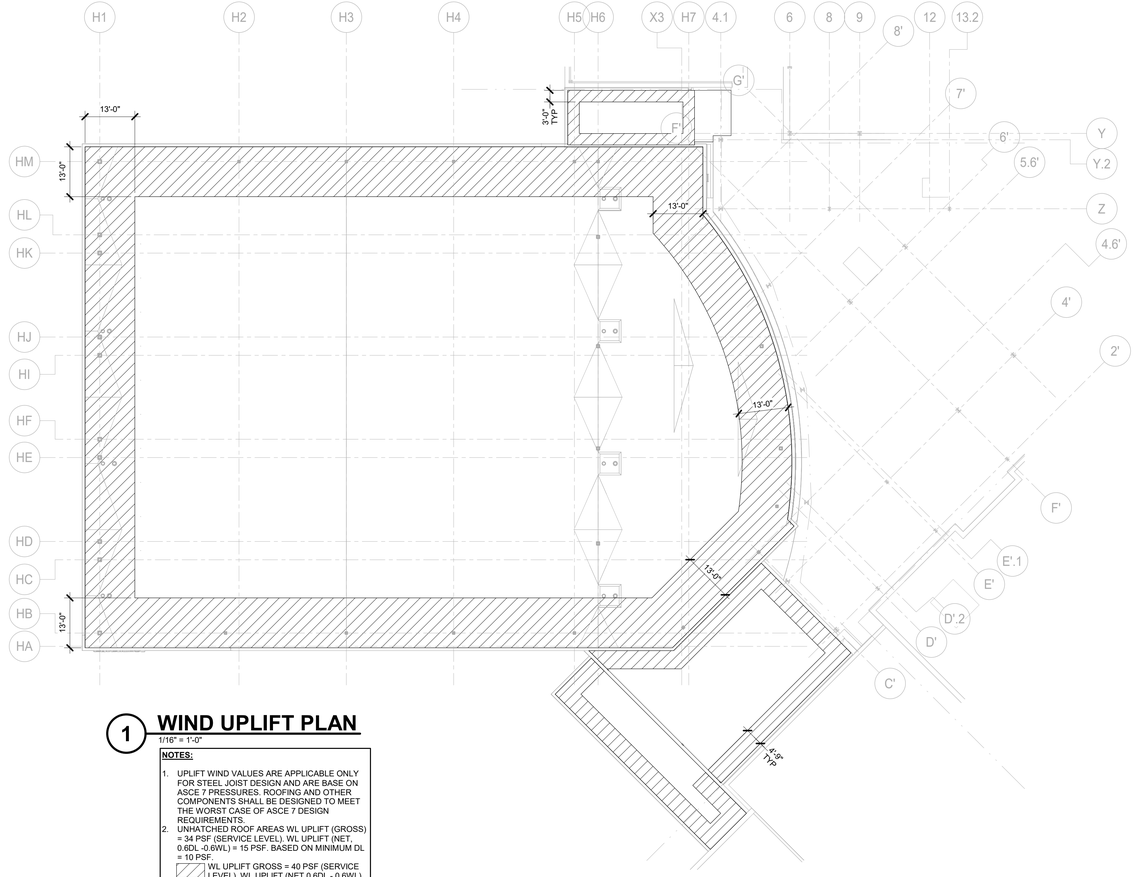


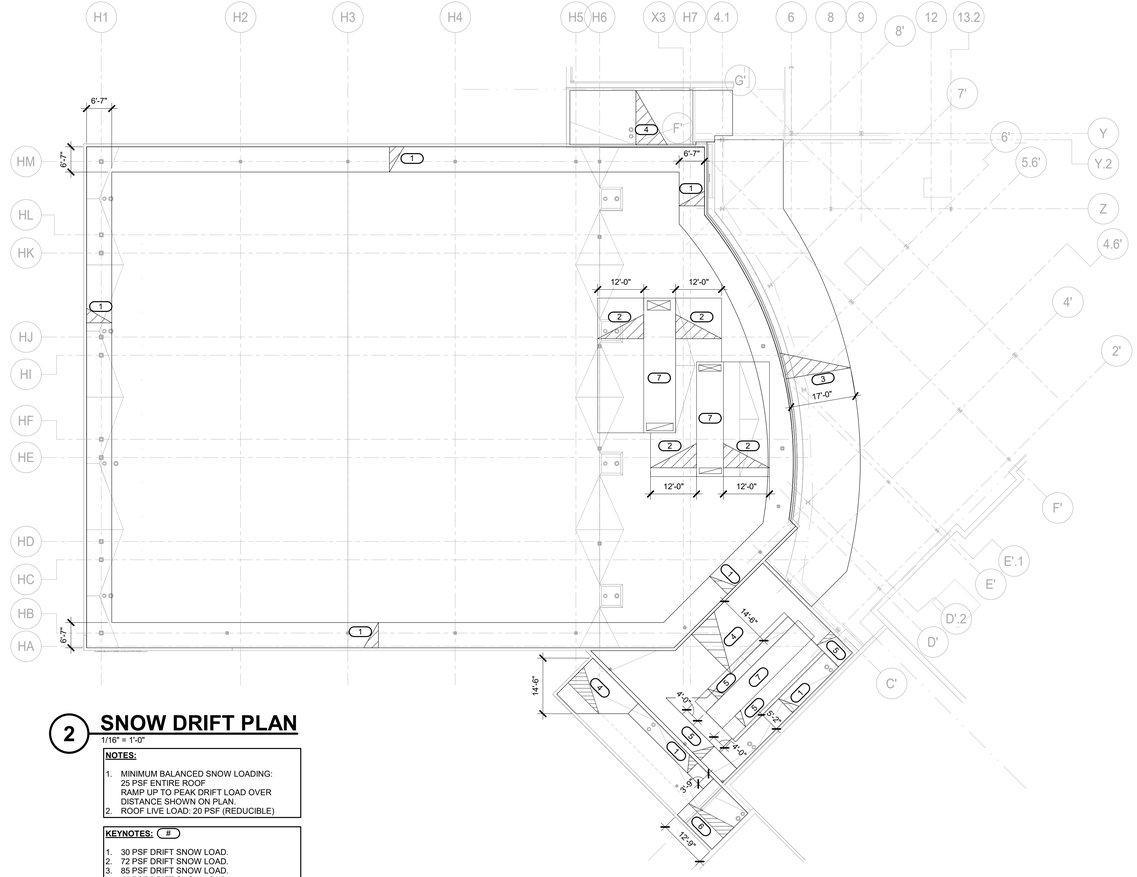
1 WIND UPLIFT PLAN

1/16" = 1'-0"

NOTES:

1. UPLIFT WIND VALUES ARE APPLICABLE ONLY FOR STEEL JOIST DESIGN AND ARE BASE ON ASCE 7 PRESSURES. ROOFING AND OTHER COMPONENTS SHALL BE DESIGNED TO MEET THE WORST CASE OF ASCE 7 DESIGN REQUIREMENTS.
2. UNHATCHED ROOF AREAS WL UPLIFT (GROSS) = 34 PSF (SERVICE LEVEL). WL UPLIFT (NET, 0.6DL -0.6WL) = 15 PSF. BASED ON MINIMUM DL = 10 PSF.

   WL UPLIFT GROSS = 40 PSF (SERVICE LEVEL). WL UPLIFT (NET 0.6DL - 0.6WL) = 18 PSF.



2 SNOW DRIFT PLAN

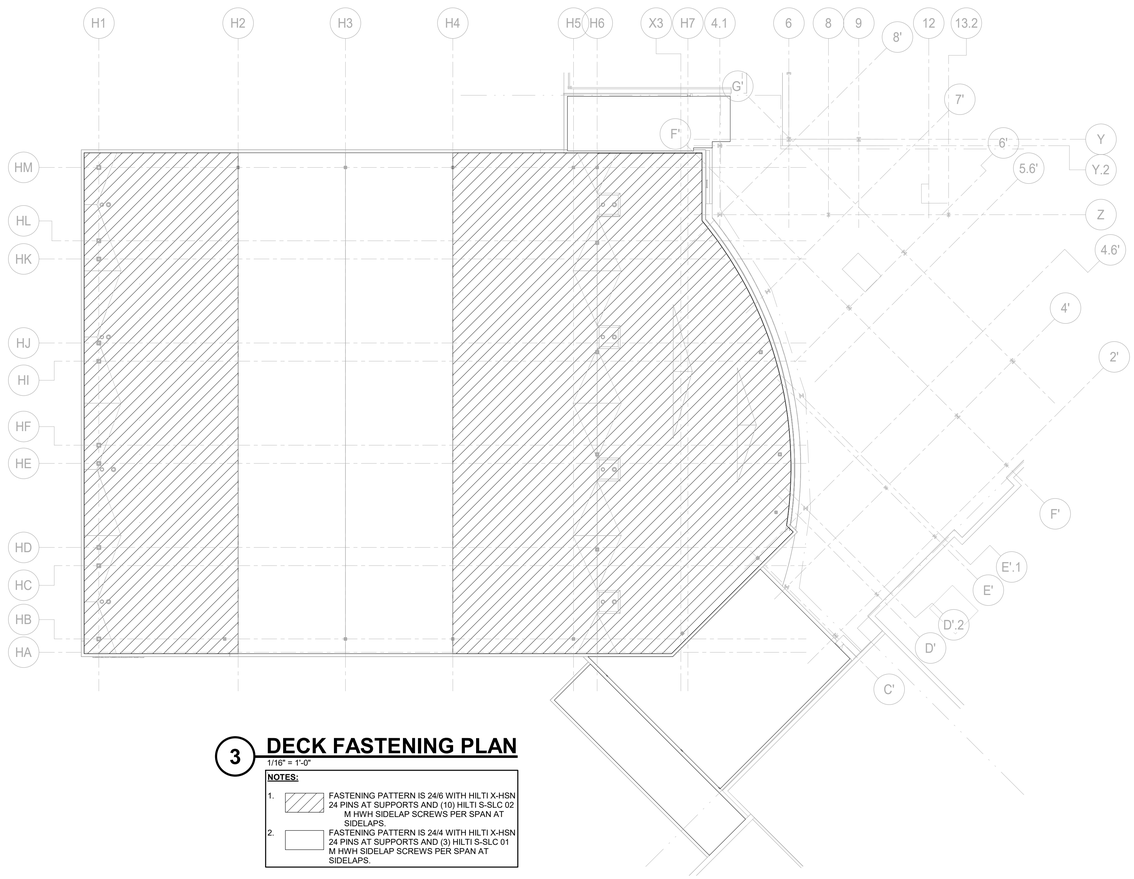
1/16" = 1'-0"

NOTES:

1. MINIMUM BALANCED SNOW LOADING: 25 PSF ENTIRE ROOF. RAMP UP TO PEAK DRIFT LOAD OVER DISTANCE SHOWN ON PLAN.
2. ROOF LIVE LOAD: 20 PSF (REDUCIBLE)

KEYNOTES: (#)

1. 30 PSF DRIFT SNOW LOAD.
2. 72 PSF DRIFT SNOW LOAD.
3. 85 PSF DRIFT SNOW LOAD.
4. 75 PSF DRIFT SNOW LOAD.
5. 38 PSF DRIFT SNOW LOAD.
6. 70 PSF DRIFT SNOW LOAD.
7. ROOF TOP UNIT - SEE MECHANICAL.



3 DECK FASTENING PLAN

1/16" = 1'-0"

NOTES:

1. FASTENING PATTERN IS 24/6 WITH HILTI X-HSN 24 PINS AT SUPPORTS AND (10) HILTI S-SLC 02 M HWH SIDELAP SCREWS PER SPAN AT SIDELAPS.
2. FASTENING PATTERN IS 24/4 WITH HILTI X-HSN 24 PINS AT SUPPORTS AND (3) HILTI S-SLC 01 M HWH SIDELAP SCREWS PER SPAN AT SIDELAPS.

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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
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WIND UPLIFT PLAN AND SNOW DRIFT PLAN

S0.4

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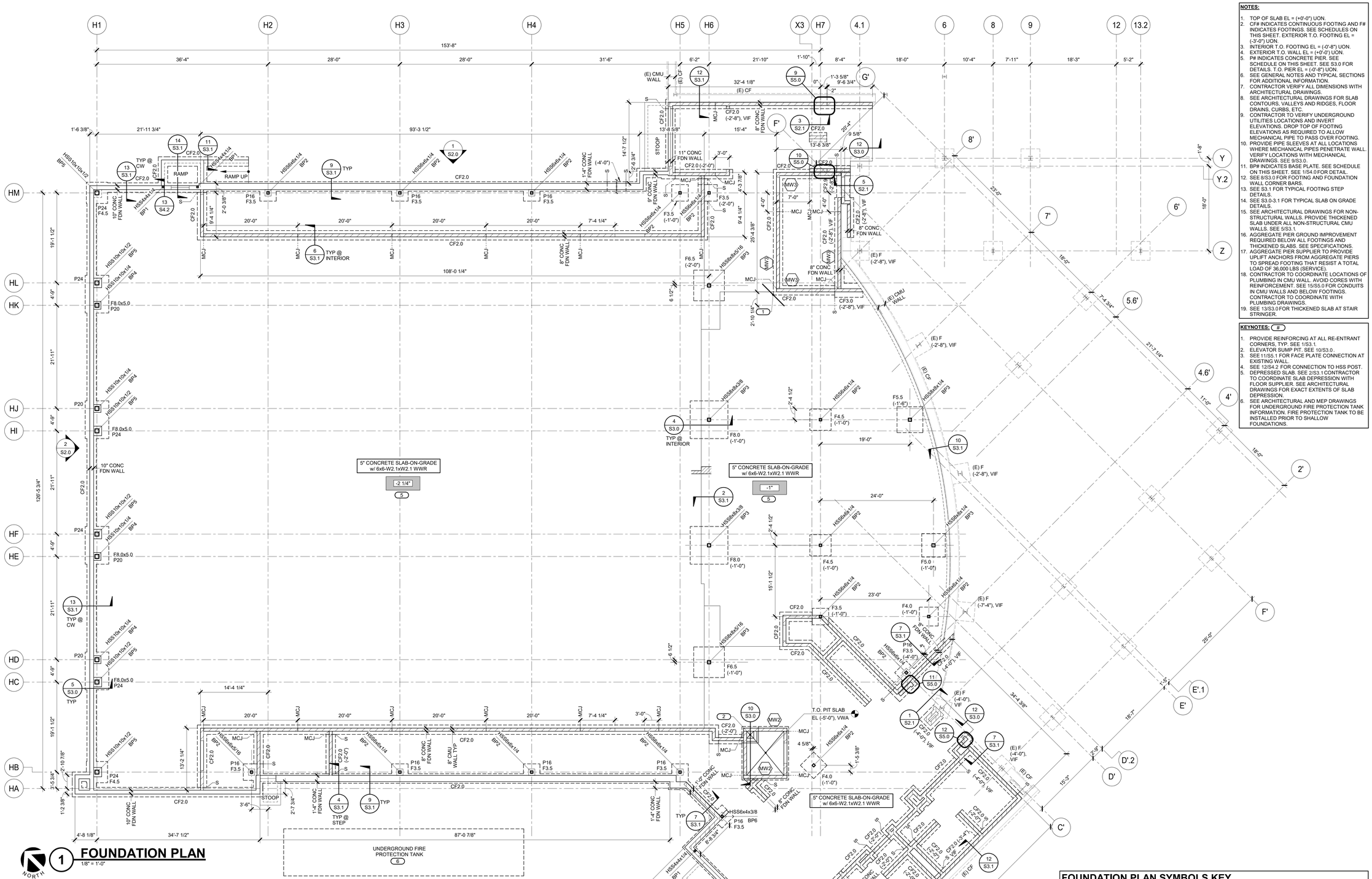


1 FOUNDATION PLAN

1/8" = 1'-0"

NORTH

NOTES:

1. TOP OF SLAB EL = (+0'-0") UON.
2. CF# INDICATES CONTINUOUS FOOTING AND F# INDICATES FOOTINGS. SEE SCHEDULES ON THIS SHEET. EXTERIOR T.O. FOOTING EL = (-3'-0") UON.
3. INTERIOR T.O. FOOTING EL = (-0'-8") UON.
4. EXTERIOR T.O. WALL EL = (+0'-0") UON.
5. P# INDICATES CONCRETE PIER. SEE SCHEDULE ON THIS SHEET. SEE S3.0 FOR DETAILS. T.O. PIER EL = (-0'-8") UON.
6. SEE GENERAL NOTES AND TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
8. SEE ARCHITECTURAL DRAWINGS FOR SLAB CONTOURS, VALLEYS AND RIDGES, FLOOR DRAINS, CURBS, ETC.
9. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. DROP TOP OF FOOTING ELEVATIONS AS REQUIRED TO ALLOW MECHANICAL PIPE TO PASS OVER FOOTING.
10. PROVIDE PIPE SLEEVES AT ALL LOCATIONS WHERE MECHANICAL PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECHANICAL DRAWINGS. SEE S/S3.0.
11. BP# INDICATES BASE PLATE. SEE SCHEDULE ON THIS SHEET. SEE 1/S4.0 FOR DETAIL.
12. SEE 8/S3.0 FOR FOOTING AND FOUNDATION WALL CORNER BARS.
13. SEE S3.1 FOR TYPICAL FOOTING STEP DETAILS.
14. SEE S3.0-3.1 FOR TYPICAL SLAB ON GRADE DETAILS.
15. SEE ARCHITECTURAL DRAWINGS FOR NON-STRUCTURAL WALLS. PROVIDE THICKENED SLAB UNDER ALL NON-STRUCTURAL CMU WALLS. SEE S/S3.1.
16. AGGREGATE PIER GROUND IMPROVEMENT REQUIRED BELOW ALL FOOTINGS AND THICKENED SLABS. SEE SPECIFICATIONS.
17. AGGREGATE PIER SUPPLIER TO PROVIDE UPLIFT ANCHORS FROM AGGREGATE PIERS TO SPREAD FOOTING THAT RESIST A TOTAL LOAD OF 36,000 LBS (SERVICE).
18. CONTRACTOR TO COORDINATE LOCATIONS OF PLUMBING IN CMU WALL. AVOID CORES WITH REINFORCEMENT. SEE 15/S5.0 FOR CONDUITS IN CMU WALLS AND BELOW FOOTINGS. CONTRACTOR TO COORDINATE WITH PLUMBING DRAWINGS.
19. SEE 13/S3.0 FOR THICKENED SLAB AT STAIR STRINGER.

KEYNOTES: (#)

1. PROVIDE REINFORCING AT ALL RE-ENTRANT CORNERS, TYP. SEE 1/S3.1.
2. ELEVATOR SUMP PIT. SEE 10/S3.0.
3. SEE 11/S5.1 FOR FACE PLATE CONNECTION AT EXISTING WALL.
4. SEE 12/S4.2 FOR CONNECTION TO HSS POST.
5. DEPRESSED SLAB. SEE 2/S3.1 CONTRACTOR TO COORDINATE SLAB DEPRESSION WITH FLOOR SUPPLIER. SEE ARCHITECTURAL DRAWINGS FOR EXACT EXTENTS OF SLAB DEPRESSION.
6. SEE ARCHITECTURAL AND MEP DRAWINGS FOR UNDERGROUND FIRE PROTECTION TANK INFORMATION. FIRE PROTECTION TANK TO BE INSTALLED PRIOR TO SHALLOW FOUNDATIONS.

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING		REMARKS
			LONG DIRECTION	SHORT DIRECTION	
CF2.0	2'-0"	1'-0"	(2) #5	-	
CF2.9	2'-9"	1'-0"	(2) #5	-	
CF3.0	3'-0"	1'-0"			

FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCING		REMARKS
				LONG DIRECTION	SHORT DIRECTION	
F3.5	3'-6"	3'-6"	1'-0"	(5) #4	(5) #4	
F4.0	4'-0"	4'-0"	1'-0"	(4) #5	(4) #5	
F4.5	4'-6"	4'-6"	1'-0"	(4) #5	(4) #5	
F5.0	5'-0"	5'-0"	1'-1"	(5) #5	(5) #5	
F5.5	5'-6"	5'-6"	1'-2"	(6) #5	(6) #5	
F6.5	6'-6"	6'-6"	1'-4"	(6) #5	(6) #5	
F8.0	8'-0"	8'-0"	1'-8"	(8) #6	(8) #6	
F8.0x5.0	8'-0"	5'-0"	1'-0"	(5) #5 T&B	(7) #5	

CMU WALL REINFORCING SCHEDULE

MARK (MW#)	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	HORIZONTAL BAR SIZE AND SPACING	REMARKS
MW1	8"	#5@48"	-	ALL WALLS, UON
MW2	8"	(2) #5@24"	#5@48"	-
MW3	8"	(2) #5@24"	#5@24"	-

NOTES:

1. TYP HORIZ REINF PER SPECIFICATIONS AND IS INTENDED TO BE A "DUROWALL - TRUSS TYPE" OR EQUIVALENT.
2. REINFORCED CORES ARE ALWAYS GROUTED.
3. SEE S5.0-S5.1 FOR TYP CMU DETAILING.

FOUNDATION WALL REINFORCING SCHEDULE

WALL THICKNESS	HORIZONTAL		VERTICAL		REMARKS
	EXTERIOR FACE	INTERIOR FACE	EXTERIOR FACE	INTERIOR FACE	
FROST WALLS:					
0" TO 8"	#5 @ 12"	-	#5 @ 12"	-	SEE NOTE 1
10" TO 1'-4"	#5 @ 12"	#5 @ 12"	#5 @ 12"	#5 @ 12"	-

NOTE:

1. CENTERED IN WALL THICKNESS.

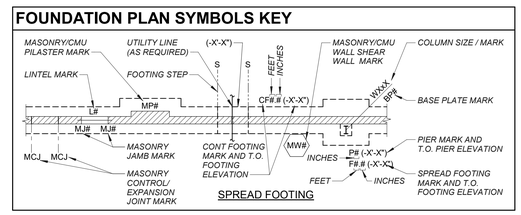
BASE PLATE SCHED

MARK	ROD SPACING	BASE PLATE SIZE
BP1	6"	PL3/4"x10"x0'-10"
BP2	8"	PL3/4"x12"x1'-0"
BP3	10"	PL1 1/4"x14"x1'-2"
BP4	12"	PL3/4"x16"x1'-4"
BP5	14"	PL1"x18"x1'-6"
BP6	-	PL3/4"x12"x0'-10"

CONCRETE PIER SCHED

MARK	DIMENSIONS	VERT REINF	TIES
P16	16"x16"	(8)#6	#4@12"
P20	20"x20"	(8)#6	#4@12"
P24	24"x24"	(8)#6	#4@12"

FOUNDATION PLAN SYMBOLS KEY



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FOUNDATION PLAN

S1.0

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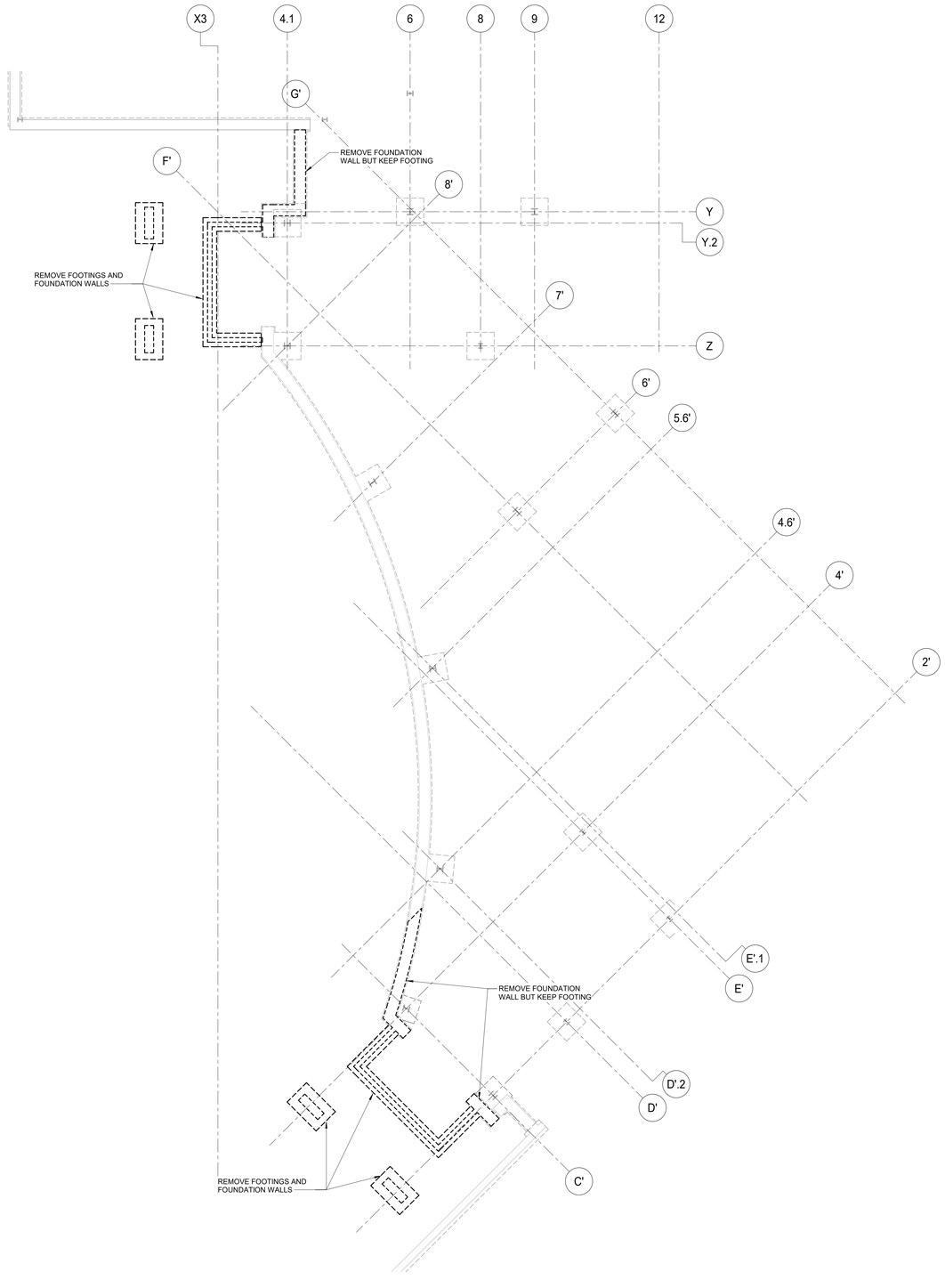

NORTH

1 FOUNDATION DEMO PLAN

1/8" = 1'-0"

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CHK	Checker

FOUNDATION DEMO PLAN

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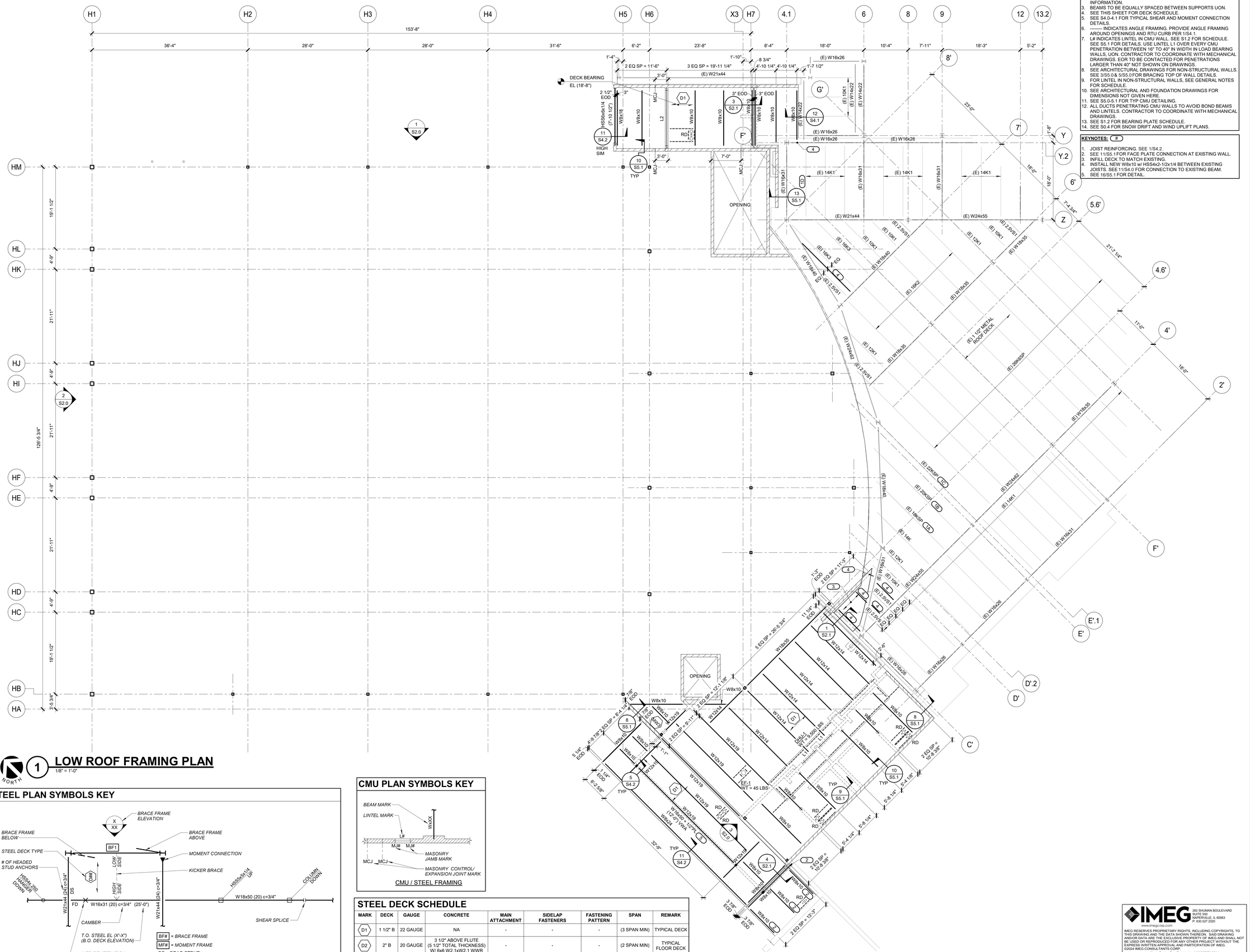
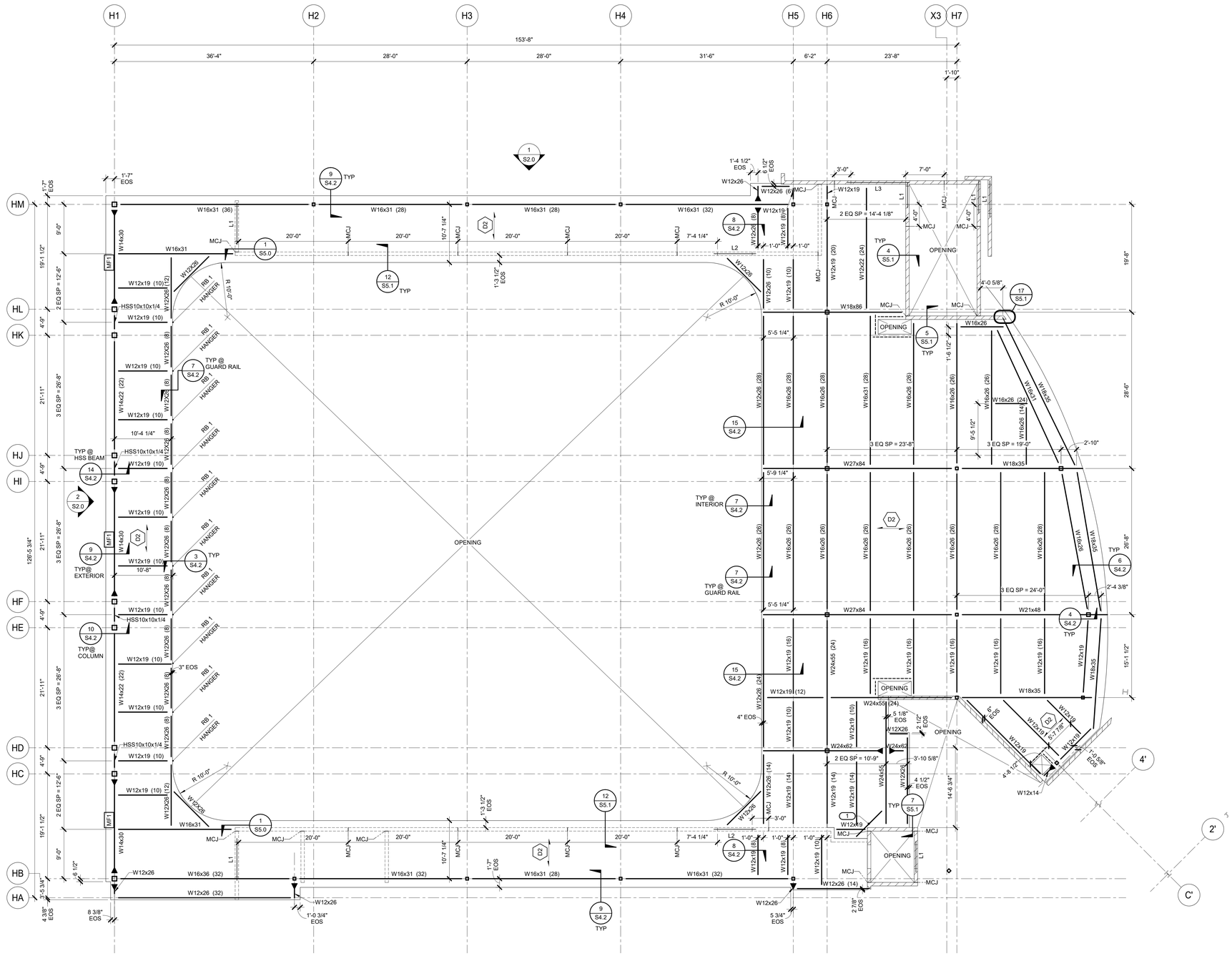

H1
H2
H3
H4
H5
H6
X3
H7
4.1
6
8
9
12
13.2
153'-8"
36'-4"
28'-0"
28'-0"
31'-6"
6'-2"
23'-8"
8'-4"
18'-0"
10'-4"
7'-11"
18'-3"
5'-2"
HM
HL
HK
HJ
HI
HF
HE
HD
HC
HB
HA
126'-5 3/4"
19'-1 1/2"
21'-11"
4'-9"
3'-3 3/4"
DECK BEARING
EL (18'-8")
(E) W21x44
(E) W16x26
(E) W24x55
(E) W18x35
(E) W18x31
(E) W18x40
(E) W24x62
(E) W16x26
(E) 1 1/2" METAL ROOF DECK
OPENING
HIGH SIM
TYP
W8x10
W8x18
W12x14
W12x19
W18x50 + 1/2" PL
W18x24
W16x24
W12x14
W12x19
W12x14
W12x14
W12x19
W12x19
W12x19

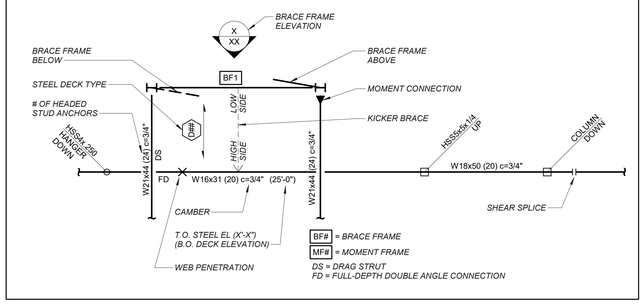


1 SECOND FLOOR FRAMING PLAN

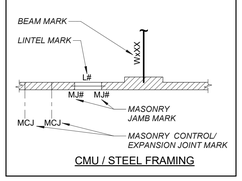
1/8" = 1'-0"

NORTH

STEEL PLAN SYMBOLS KEY



CMU PLAN SYMBOLS KEY



CMU / STEEL FRAMING

NOTES:

1. TOP OF STEEL EL (+15'-6") UON.
2. TOP OF SLAB EL (+15'-11 1/2") UON.
3. BEAMS NOT INDICATING NUMBER OF REQUIRED SHEAR STUDS SHALL HAVE STUDS PLACED ALONG BEAMS AT A MAX SPACING OF 1'-0". PROVIDE 3/4"øx4" HSA UON.
4. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
5. BEAMS TO BE EQUALLY SPACED BETWEEN SUPPORTS UON.
6. ——— INDICATES ANGLE FRAMING FOR OPENINGS. SEE S4.0-4.1 FOR TYPICAL FLOOR OPENING DETAILS. NOTE: NOT ALL OPENINGS MAY BE SHOWN. GENERAL CONTRACTOR TO COORDINATE FINAL OPENING LOCATIONS AND DIMENSIONS WITH MEP CONTRACTOR AND ARCH.
7. GENERAL CONTRACTOR SHALL COORDINATE ALL SLAB OPENINGS AT STAIRS AND ELEVATORS.
8. SEE S1.1 FOR STEEL DECK SCHEDULE.
9. SEE S4.0-4.1 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
10. SEE S4.0-4.2 FOR TYPICAL SLAB ON DECK DETAILS.
11. L# INDICATES LINTEL IN CMU WALL. SEE THIS SHEET FOR SCHEDULE. SEE S5.1 FOR DETAILS. USE LINTEL L1 OVER EVERY CMU PENETRATION BETWEEN 16" TO 40" IN WIDTH IN LOAD BEARING WALLS, UON. CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS. EOR TO BE CONTACTED FOR PENETRATIONS LARGER THAN 40" NOT SHOWN ON DRAWINGS.
12. RB# INDICATES #"ø STEEL HANGER ROD.
13. SEE ARCHITECTURAL DRAWINGS FOR NON-STRUCTURAL WALLS. SEE 3/S5.0.& 5/S5.0 FOR BRACING TOP OF WALL DETAILS.
14. FOR LINTEL IN NON-STRUCTURAL WALLS, SEE GENERAL NOTES FOR SCHEDULE.
15. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
16. SEE S5.0-5.1 FOR TYP CMU DETAILING.
17. ALL DUCTS PENETRATING CMU WALLS TO AVOID BOND BEAMS AND LINTELS. CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS.
18. SEE THIS SHEET FOR BEARING PLATE SCHEDULE.

KEYNOTES: #

1. (2) #5 x 6'-0" @ 6" CENTERED IN CONCRETE SLAB AT EVERY RE-ENTRANT CORNER, TYP.

BEARING PLATE SCHEDULE

MEMBER SIZE	BEARING PLATE SIZE L x W x T	ANCHOR BOLTS		REMARKS
		NO. & SIZE	EMBEDMENT LENGTH, MIN	
W8, W10, W12, W16, W18	7"x7"x3/8"	(2) 1/2ø	6"	-
W18x86	12"x7"x1/2"	(2) 5/8ø	8"	-
W24	8"x7"x3/8"	(2) 1/2ø	6"	-

NOTE:

1. EDGE OF BEARING PLATE SHALL BE LOCATED NOT MORE THAN 1/2" FROM THE FACE OF THE WALL ON THE BEARING SIDE.

LINTEL SCHEDULE

MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	8" DEEP BOND BEAM WITH (2) #5	2/S5.1 & 3/S5.1	-
L2	16" DEEP BOND BEAM WITH (2) #5	2/S5.1 & 3/S5.1	-
L3	32" DEEP BOND BEAM WITH (2) #5	2/S5.1 & 3/S5.1	-

NOTE:

1. BEARING LENGTH EACH END = 8" UON.

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WA No.	2024-006
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SECOND FLOOR FRAMING PLAN

S1.2

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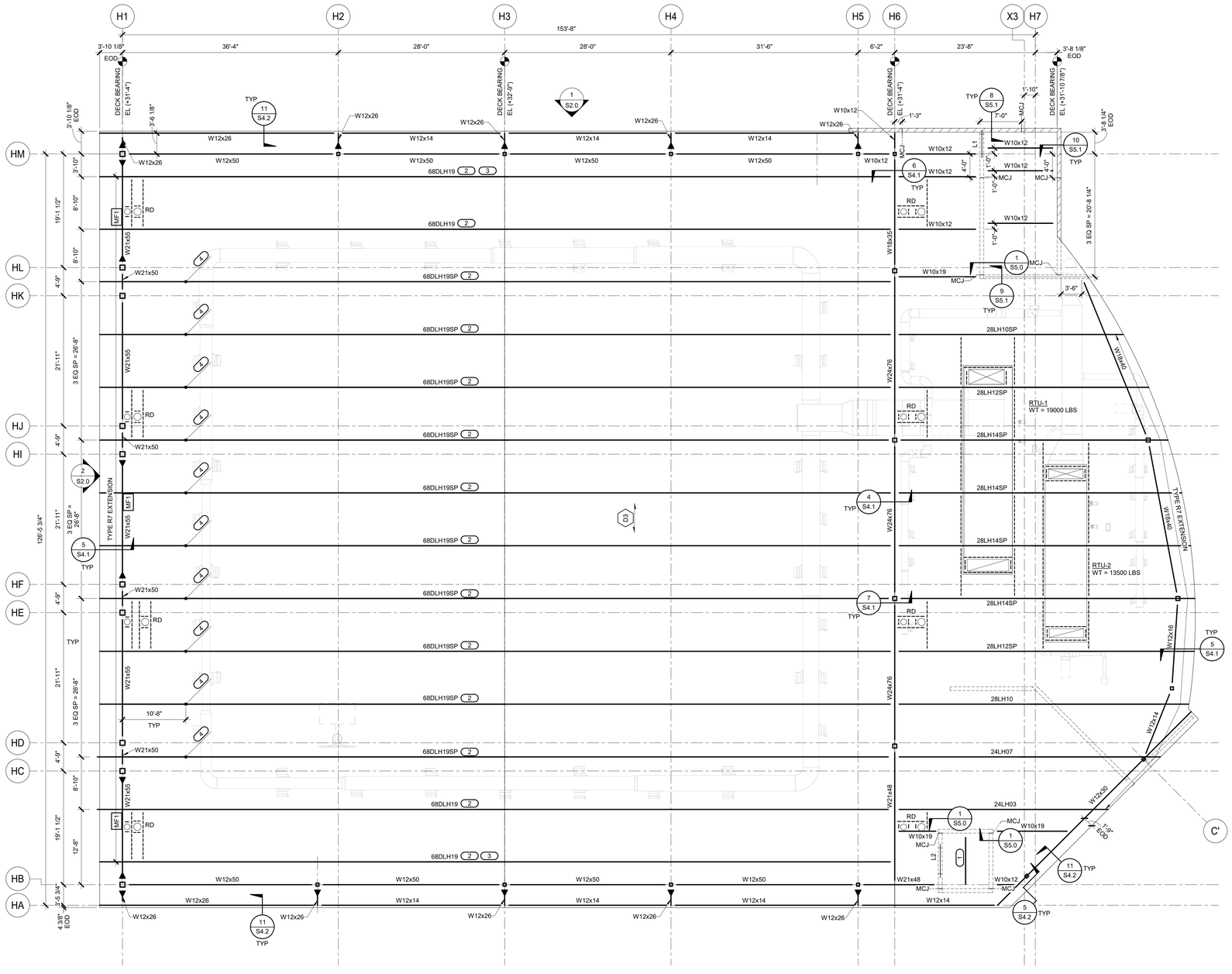
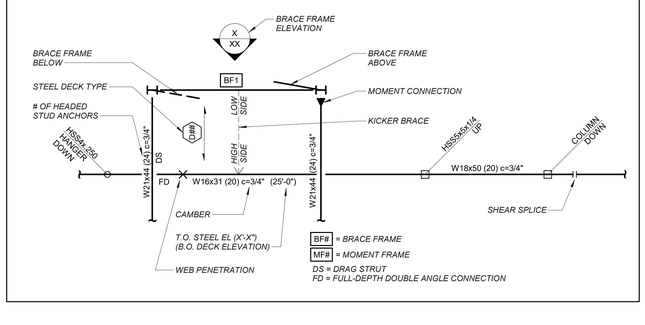


1 UPPER ROOF FRAMING PLAN

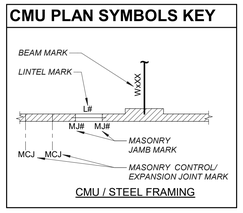
1/8" = 1'-0"

NORTH

STEEL PLAN SYMBOLS KEY



CMU PLAN SYMBOLS KEY



CMU / STEEL FRAMING

NOTES:

1. SEE PLAN FOR DECK BEARING ELEVATIONS.
2. ------- INDICATES ANGLE FRAMING. PROVIDE ANGLE FRAMING AROUND OPENING AND RTU CURB PER 1/S4.1. NOTE: NOT ALL OPENINGS MAY BE SHOWN. GENERAL CONTRACTOR TO COORDINATE FINAL OPENING LOCATIONS AND DIMENSIONS WITH MEP CONTRACTOR AND ARCH.
3. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
4. JOISTS TO BE EQUALLY SPACED BETWEEN SUPPORTS UON.
5. SEE S1.1 FOR STEEL DECK SCHEDULE.
6. L# INDICATES LINTEL IN CMU WALL. SEE S1.2 FOR SCHEDULE. SEE S5.1 FOR DETAILS.
7. SEE S0.4 FOR SNOW DRIFT AND WIND UPLIFT PLANS.
8. SEE 8/S4.1 & 9/S4.1 FOR WHERE CONCENTRATED LOADS ARE APPLIED TO JOISTS.
9. SEE S4.0-4.1 FOR TYPICAL SHEAR AND MOMENT CONNECTION DETAILS.
10. JOIST MANUFACTURER TO COORDINATE WEB MEMBERS TO PROVIDE ROOM FOR A 36" ROUND MECHANICAL DUCT WHERE DUCTS CROSS DLH JOISTS.
11. SEE 10/S4.1 FOR SPECIAL JOIST LOADING SCHEDULE.
12. SEE ARCHITECTURAL DRAWINGS FOR NON-STRUCTURAL WALLS. SEE 3/S5.0 & 5/S5.0 FOR BRACING TOP OF WALL DETAILS.
13. FOR LINTEL IN NON-STRUCTURAL WALLS, SEE GENERAL NOTES FOR SCHEDULE.
14. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
15. SEE S5.0-5.1 FOR TYP CMU DETAILING.
16. SEE S1.2 FOR BEARING PLATE SCHEDULE.

KEYNOTES: (#)

1. W8x18 HOIST BEAM. COORDINATE HOIST BEAM ELEVATION AND LOCATION WITH ELEVATOR MANUFACTURER.
2. JOIST TO HAVE PITCHED TOP CHORD TO MATCH ROOF SLOPE. VWA.
3. JOIST MANUFACTURER TO DESIGN END JOISTS WITH ZERO CAMBER.
4. 1" ø STEEL HANGER ROD FROM RUNNING TRACK ATTACHING TO JOIST. JOIST MANUFACTURER TO DESIGN JOIST BOTTOM CHORD FOR CONCENTRATED LOAD OF 1.0DL = 4 KIPS AND 1.0LL = 6 KIPS. SEE 11/S4.1 FOR CONNECTION DETAIL.

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UPPER ROOF FRAMING PLAN

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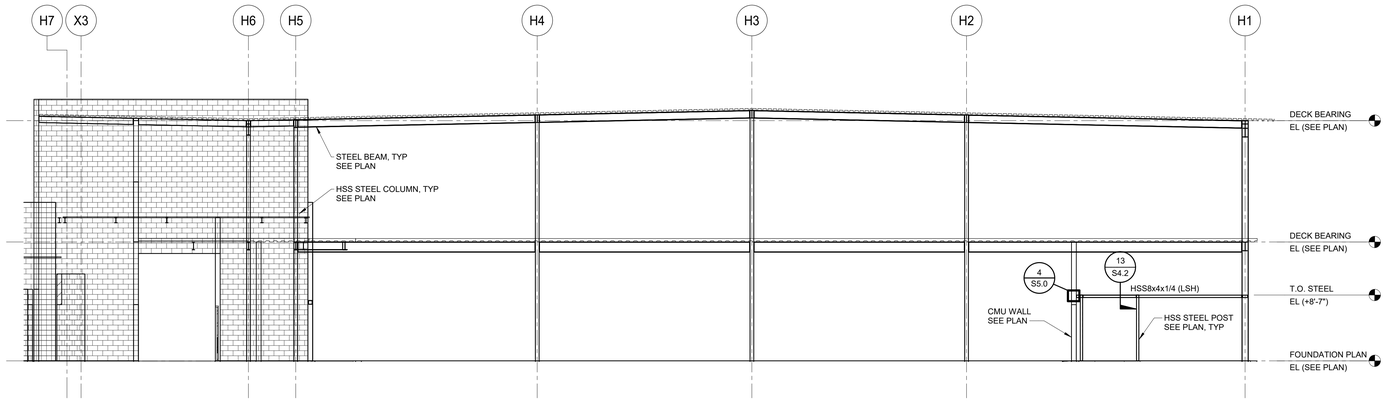
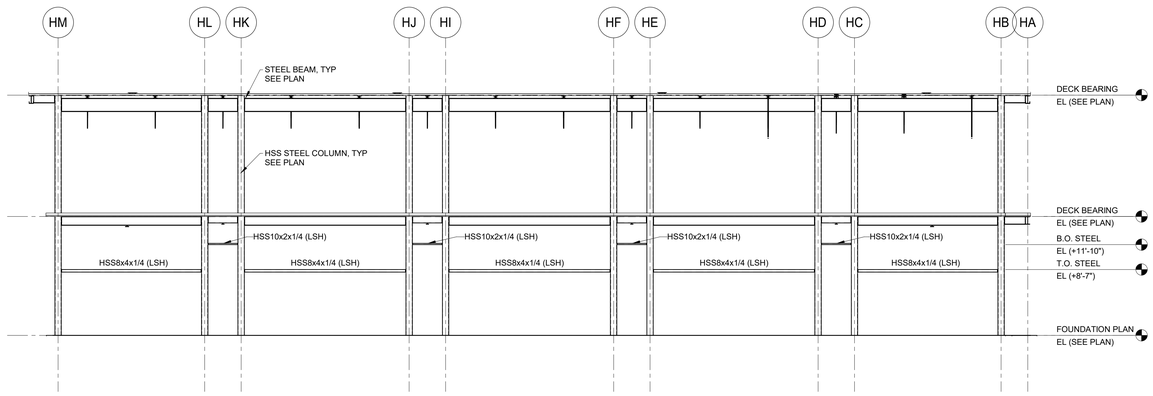
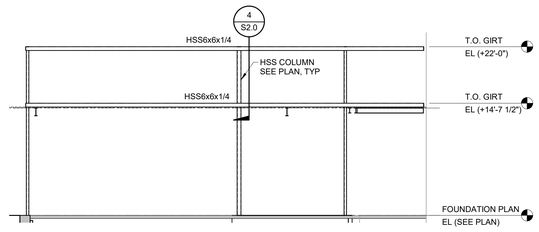


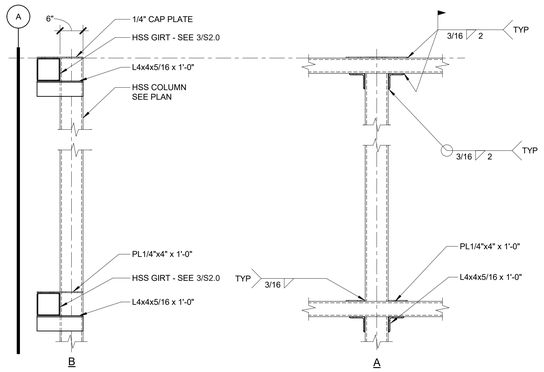
1 NORTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION MOMENT FRAME
1/8" = 1'-0"



3 SCREEN WALL ELEVATION
1/8" = 1'-0"



4 CANTILEVER SCREEN WALL
3/4" = 1'-0"

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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

BUILDING ELEVATIONS

S2.0

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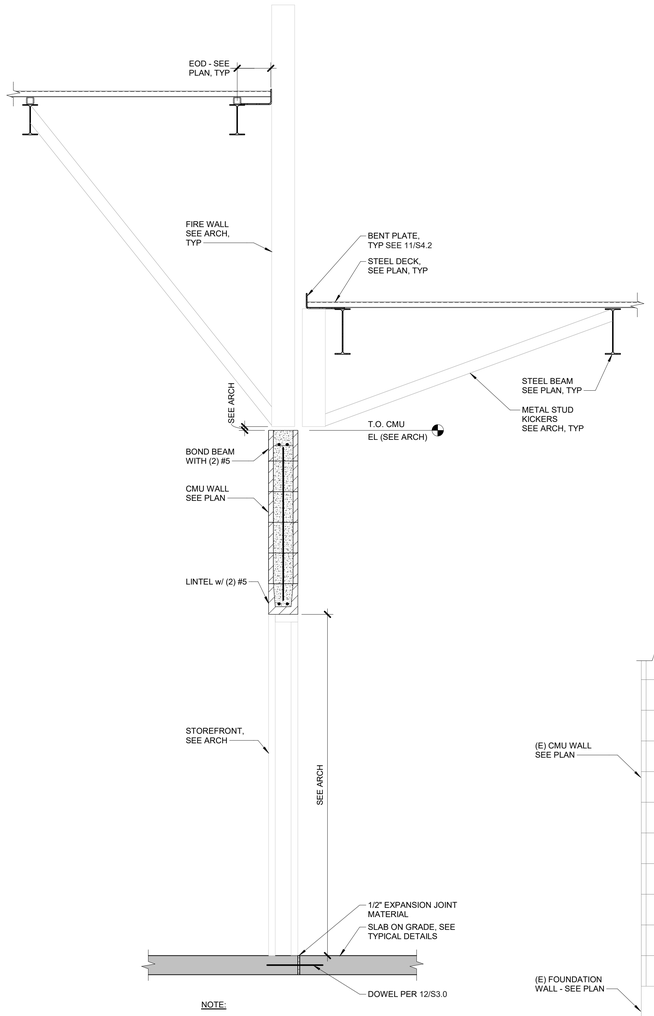
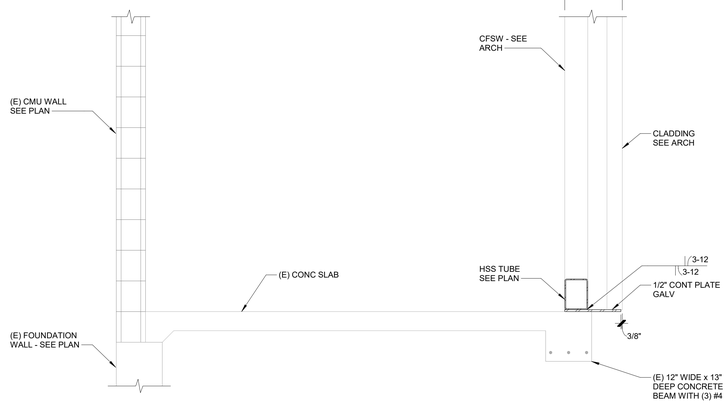


NOTE:

1. COLD FORM STUDS NOT TO BE ATTACHED TO CMU WALL, TYP.

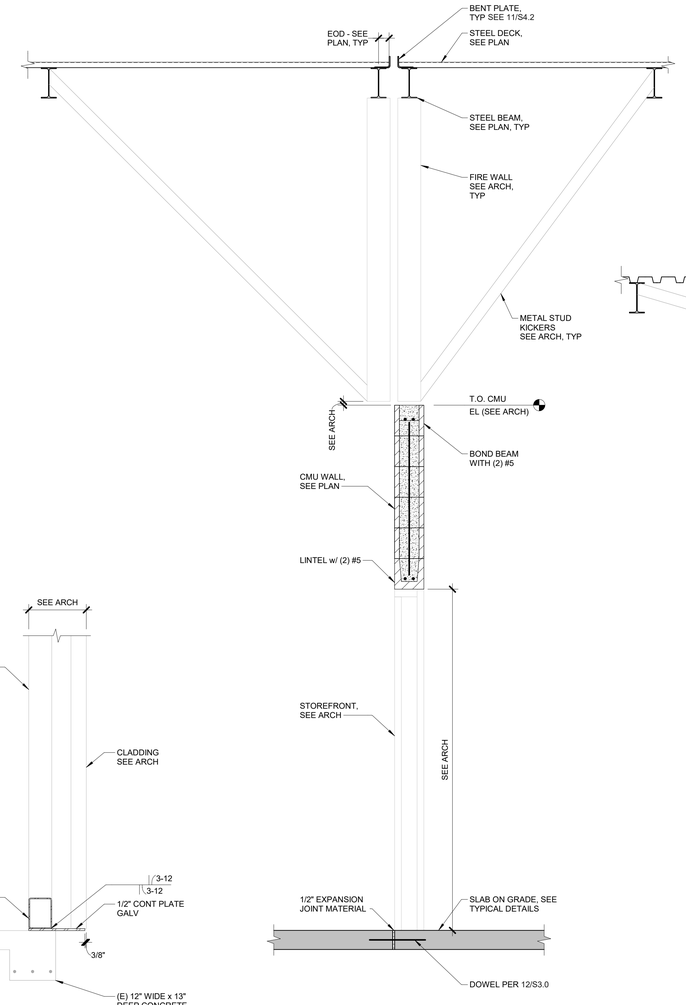
1 CMU WALL @ MAIN LOBBY

3/4" = 1'-0"



2 CMU WALL @ HS ENTRY

3/4" = 1'-0"

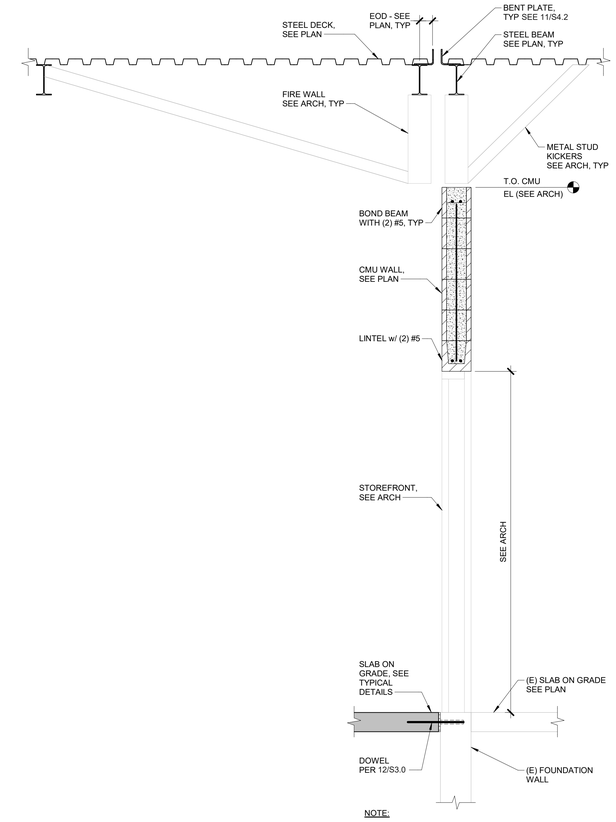


NOTE:

1. COLD FORM STUDS NOT TO BE ATTACHED TO CMU WALL, TYP.

3 CMU WALL @ MS LOBBY

3/4" = 1'-0"

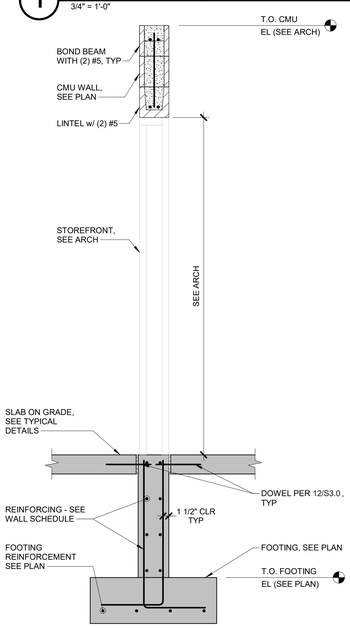


NOTE:

1. COLD FORM STUDS NOT TO BE ATTACHED TO CMU WALL, TYP.

4 CMU WALL @ HS ENTRY

3/4" = 1'-0"



NOTE:

1. COLD FORM STUDS NOT TO BE ATTACHED TO CMU WALL, TYP.

5 EGRESS EXIT @ EXISTING BLDG

3/4" = 1'-0"

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8869 COUNTY ROAD 250 E
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WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

WALL SECTIONS

S2.1

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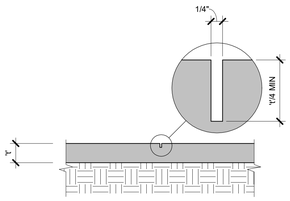
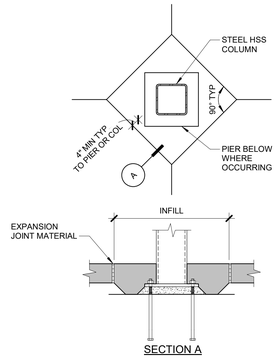
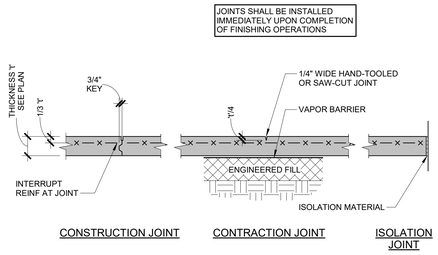


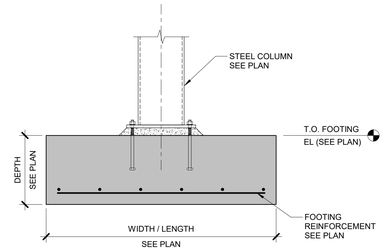
1 EXPOSED SLAB CONTROL JOINT
3/4" = 1'-0"



2 SLAB-ON-GRADE JOINTS AT COLUMNS
3/4" = 1'-0"

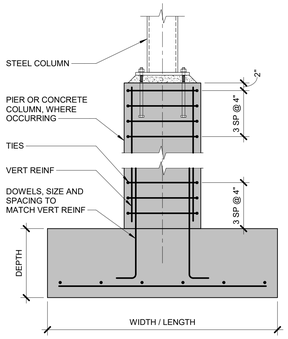


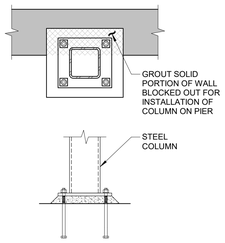
3 SLAB ON GRADE CONSTRUCTION
3/4" = 1'-0"



NOTES:
1. WHERE CONCRETE OR REINF CMU WALLS BEAR ON THE FOOTING, INSTALL WALL DOWELS INTO THE FOOTING.
2. INSTALL INTERSECTING WALL FOOTING REINF CONT THROUGH SPREAD FOOTING.

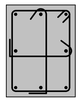
4 SPREAD FOOTING SUPPORTING STEEL COLUMN
3/4" = 1'-0"





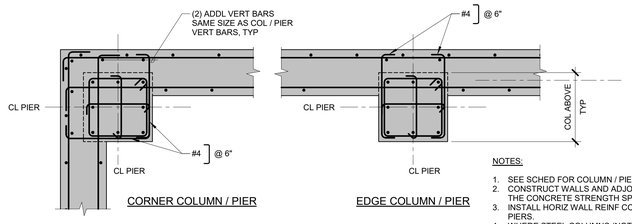
NOTES:
1. WHERE CONCRETE WALLS BEAR ON THE FOOTING, INSTALL WALL DOWELS INTO THE FOOTING.
2. INSTALL INTERSECTING WALL FOOTING REINF CONT THROUGH SPREAD FOOTING.

5 SPREAD FOOTING SUPPORTING STEEL COLUMN ON PIER
3/4" = 1'-0"



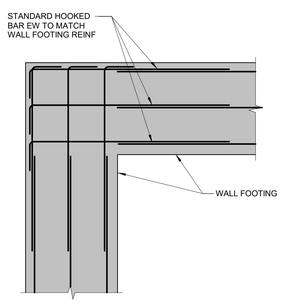
NOTES:
1. LOCATE TOP TIE 2" CLEAR BELOW TOP OF PIER. PROVIDE (4) ADDITIONAL TIES @ 4" BELOW TOP TIE. INSTALL BOTTOM TIE 6" MAX ABOVE TOP OF FOOTING/FOUNDATION.
2. ALTERNATE THE LOCATION OF CORNER HOOKS ON CLOSED TIES AROUND THE PERIMETER OF THE PIER BETWEEN ADJACENT CORNERS ON SUCCESSIVE SETS OF TIES.
3. ALTERNATE THE LOCATION OF THE 90° AND 135° HOOKS ON SUCCESSIVE SETS OF TIES.

6 CONCRETE PIER
3/4" = 1'-0"

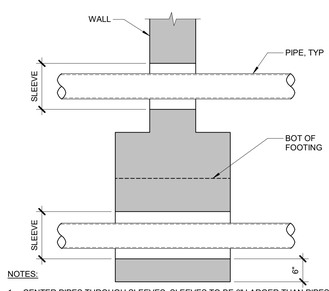


NOTES:
1. SEE SCHED FOR COLUMN / PIER DIMENSIONS AND REINF.
2. CONSTRUCT WALLS AND ADJOINING COLUMNS / PIERS MONOLITHIC USING THE CONCRETE STRENGTH SPECIFIED FOR THE COLUMN / PIERS.
3. INSTALL HORIZ WALL REINF CONT THROUGH INTERSECTING COLUMNS / PIERS.
4. WHERE STEEL COLUMNS (NOT SHOWN) BEAR ON PIERS, INFILL POCKETS IN TOPS OF WALLS SOLID WITH CONCRETE AFTER INSTALLATION OF STEEL COLUMNS.

7 COLUMN / PIER / WALL INTERFACE
3/4" = 1'-0"

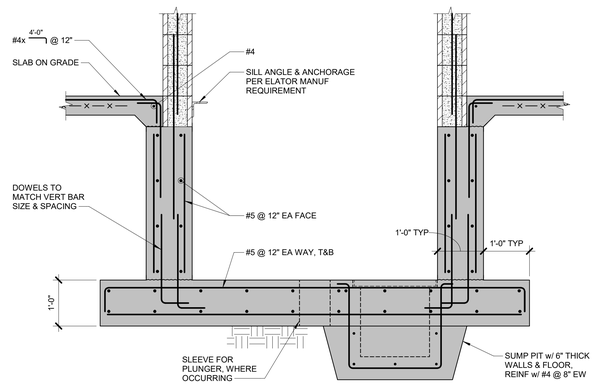


8 FOOTING INTERSECTION
3/4" = 1'-0"



NOTES:
1. CENTER PIPES THROUGH SLEEVES. SLEEVES TO BE 6" LARGER THAN PIPES.
2. FOR PIPES 3'-0" OR LESS BELOW FOOTING, PROVIDE SLEEVE AND CONCRETE AS SHOWN. MORE THAN 3'-0", COMPACT BACKFILL OVER PIPE TO 90% AS APPROVED BY GEOTECHNICAL ENGINEER OR USE STEPPED FOOTING BELOW PIPE.

9 PIPE THROUGH WALL / FOOTING
3/4" = 1'-0"



NOTES:
1. SEE ARCH DWGS FOR DIMENSIONS.
2. VERIFY PIT DEPTH WITH ELATOR MANUF DWGS.
3. SEE ARCH AND MECH DWGS FOR LOCATION, PIT SIZE, DEPTH AND COVER DETAILS OF SUMP PIT.

10 ELEVATOR PIT
3/4" = 1'-0"

CLASS B TENSION LAP SPLICE LENGTH

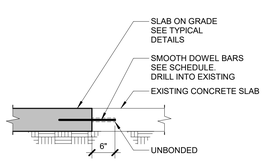
REINF STEEL, Fy	BAR SIZE	BAR LOCATION	CONCRETE STRENGTH, f'c	
			3 KSI	4 KSI
60 KSI	#3	TOP	2'-4"	2'-1"
		OTHER	1'-10"	1'-7"
	#4	TOP	3'-2"	2'-9"
		OTHER	2'-5"	2'-1"
	#5	TOP	3'-11"	3'-5"
		OTHER	3'-0"	2'-7"
	#6	TOP	4'-8"	4'-1"
		OTHER	3'-7"	3'-1"
	#7	TOP	6'-9"	5'-11"
		OTHER	5'-3"	4'-6"
	#8	TOP	7'-9"	6'-9"
		OTHER	6'-0"	5'-2"
	#9	TOP	8'-9"	7'-7"
		OTHER	6'-9"	5'-10"
	#10	TOP	9'-10"	8'-6"
		OTHER	7'-7"	6'-7"
	#11	TOP	10'-11"	9'-6"
		OTHER	8'-5"	7'-3"

NOTES:
1. SPLICE LENGTHS SHOWN ARE APPLICABLE FOR SPLICES OCCURRING UNDER THE FOLLOWING CONDITIONS.
   A. NORMAL-WEIGHT CONCRETE
   B. MIN BAR SPACING REQUIREMENTS:
      a. CLEAR SPACING BETWEEN BARS AT SPLICE LOCATION > BAR DIAMETER, CLEAR COVER TO BARS ≥ BAR DIAMETER, AND TIES OR STIRRUPS OCCUR PER CODE SPACING WITHIN LENGTH OF SPLICE; OR
      b. CLEAR SPACING BETWEEN BARS AT SPLICE ≥ 2 x BAR DIAMETER AND CLEAR COVER > BAR DIAMETER
2. INDICATED SPLICE LENGTHS SHALL BE INCREASED BY THE LISTED FACTORS WHERE THE FOLLOWING CONDITIONS EXIST.

CONDITION	SPLICE LENGTH MULTIPLIER*
A. BAR SPACING OR CLEAR COVER IS LESS THAN REQUIRED PER NOTE 1	1.5

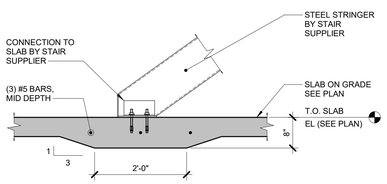
3. TOP BARS ARE HORIZ BARS LOCATED WHERE MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BARS.
4. USE SMALLER BAR SIZE TO DETERMINE LENGTH WHERE SPLICING BARS OF DIFFERENT SIZES.

11 CLASS B TENSION LAP SPLICE LENGTHS
3/4" = 1'-0"



SLAB THICKNESS	SMOOTH DOWEL BAR
5"	3/4"Ø x 1'-4" @ 12" OC

12 NEW TO EXISTING SLAB DETAIL
3/4" = 1'-0"



13 THICKENED SLAB AT STAIR STRINGER
3/4" = 1'-0"

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FOUNDATION DETAILS

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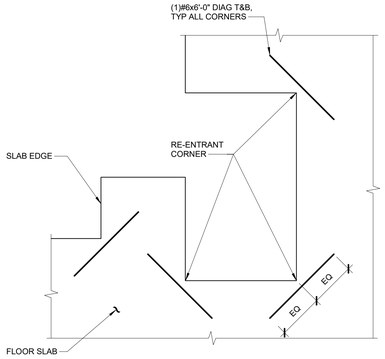
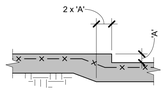


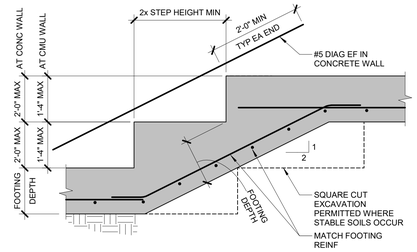
1 DIAGONAL REINFORCING AT RE-ENTRANT CORNERS
3/4" = 1'-0"

SEE ARCH AND MEP DRAWINGS FOR EXACT LOCATIONS, EXTENTS AND DIMENSIONS OF DEPRESSIONS

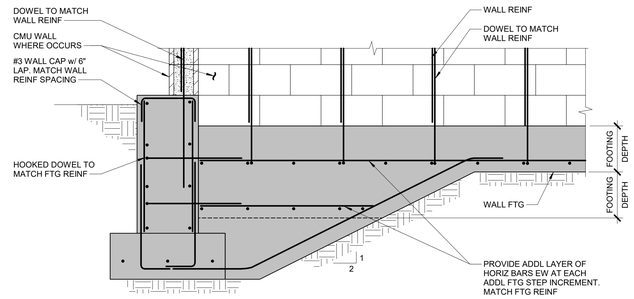


DEPRESSION < SLAB THICKNESS

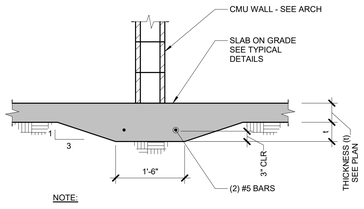
2 SLAB ON GRADE DEPRESSION AND STEP
3/4" = 1'-0"



3 FOOTING STEP WITH WALL ABOVE
3/4" = 1'-0"



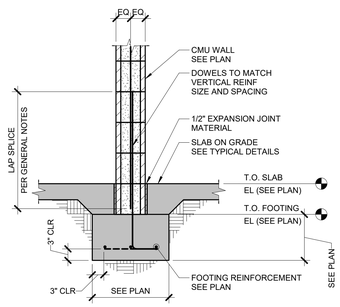
4 FOOTING STEP AT CMU WALL
3/4" = 1'-0"



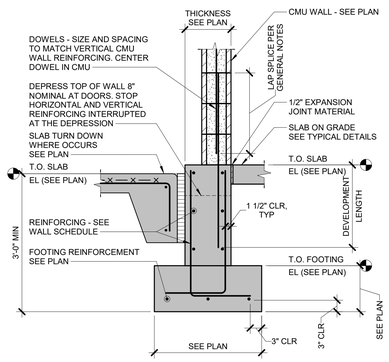
NOTE:

1. TO BE USED AT INTERIOR, NON-STRUCTURAL WALLS BRACED AT TOP OF THE WALL.

5 NON-STRUCTURAL CMU WALL DETAIL
3/4" = 1'-0"



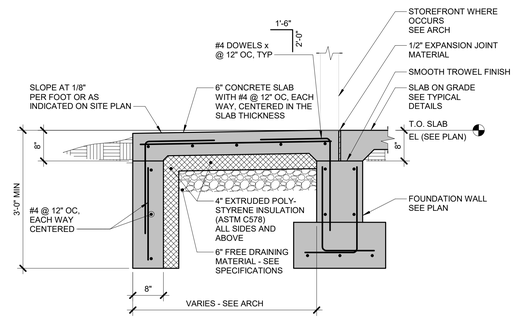
6 INTERIOR CMU WALL FOUNDATION
3/4" = 1'-0"



NOTES:

1. FOR HEIGHTS EXCEEDING 4'-0", EACH SIDE OF THE WALL SHALL BE BACKFILLED AT THE SAME TIME.
2. AT LOCATIONS WHERE FOUNDATIONS ABUT EXISTING FOUNDATIONS, DOWEL AND EPOXY (HY-200) FOUNDATION AND FOOTING BARS 6" INTO EXISTING CONCRETE. BOTTOM OF NEW FOOTING TO MATCH BOTTOM OF EXISTING. MAKE SURE NOT TO UNDERMINE EXISTING FOUNDATION.
3. SEE DETAIL 10/S3.1 FOR INFORMATION NOT SHOWN HERE.

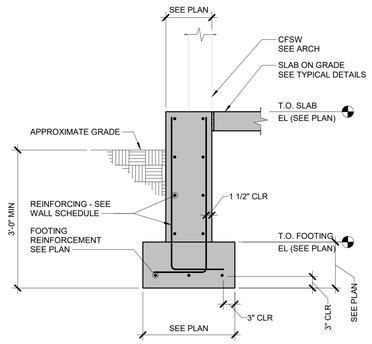
7 TYPICAL PERIMETER FROST WALL
3/4" = 1'-0"



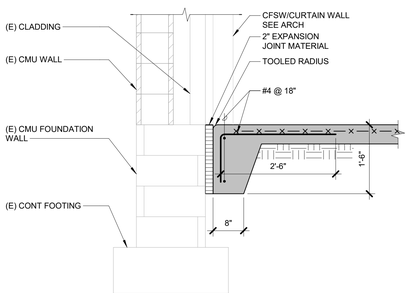
NOTE:

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT STOOP LAYOUT AND LOCATIONS.

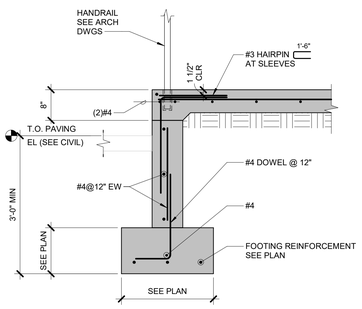
8 TYPICAL STOOP DETAIL
3/4" = 1'-0"



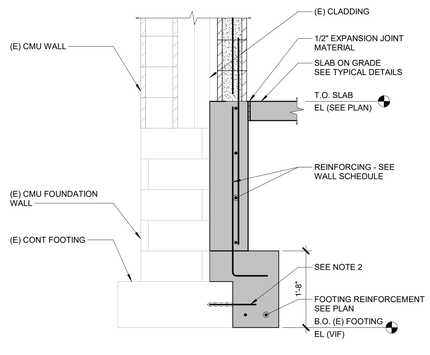
9 FOUNDATION AT EXTERIOR WALL DETAIL
3/4" = 1'-0"



10 EDGE OF SLAB DETAIL
3/4" = 1'-0"



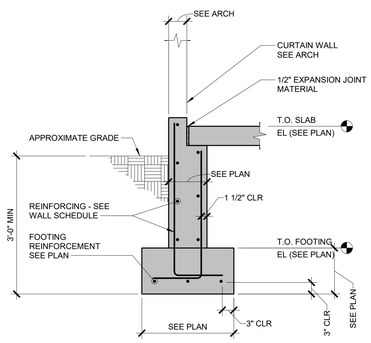
11 STAIR SIDE WALL
3/4" = 1'-0"



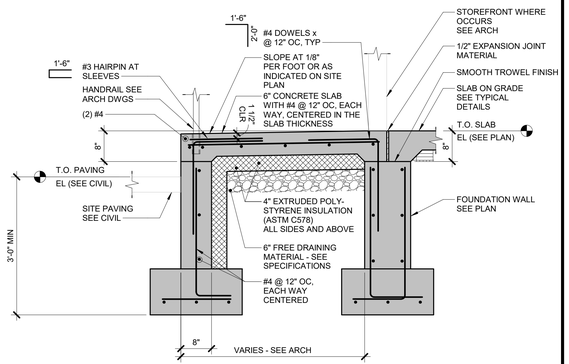
NOTES:

1. SEE 7/S3.1 FOR INFORMATION NOT SHOWN HERE.
2. AT LOCATIONS WHERE FOUNDATIONS ABUT EXISTING FOUNDATIONS, DOWEL AND EPOXY (HY-200) FOUNDATION AND FOOTING BARS 6" INTO EXISTING CONCRETE. BOTTOM OF NEW FOOTING TO MATCH BOTTOM OF EXISTING. MAKE SURE NOT TO UNDERMINE EXISTING FOUNDATION.

12 SECTION @ EXISTING
3/4" = 1'-0"



13 FOUNDATION AT CURTAIN WALL DETAIL
3/4" = 1'-0"



NOTE:

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT RAMP LAYOUT AND LOCATION.

14 RAMP DETAIL
3/4" = 1'-0"

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Exp 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

FOUNDATION DETAILS

S3.1

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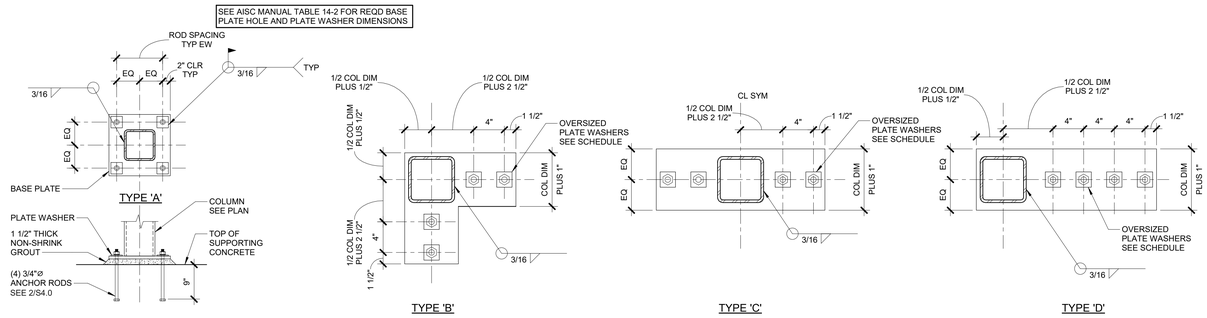
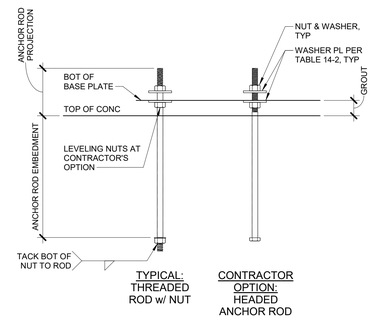


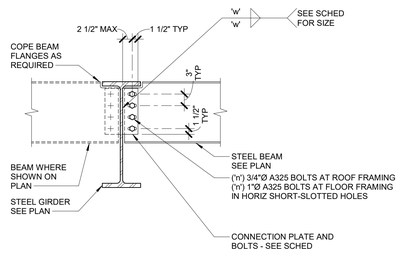
1 HSS COLUMN BASE PLATES
3/4" = 1'-0"



2 CAST-IN ANCHOR RODS
NO SCALE

GRAVITY BEAM CONNECTION SCHEDULE			
BEAM SIZE	NO. OF BOLTS (3)	CONNECTION WITH 3/4"Ø BOLTS	
		PL THICK	PL WELD (1)
W8, W10	2	1/4"	3/16"
W12, W14	3	1/4"	3/16"
W16	4	5/16"	1/4"
W18	5	5/16"	1/4"
W21	6	5/16"	1/4"
W24, W27	7	3/8"	1/4"

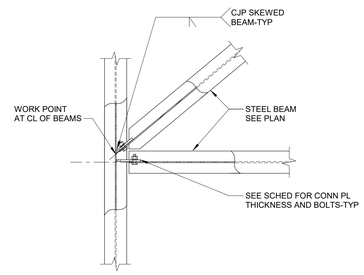
GRAVITY BEAM CONNECTION SCHEDULE			
BEAM SIZE	NO. OF BOLTS (3)	CONNECTION WITH 1"Ø BOLTS	
		PL THICK	PL WELD (1)
W8, W10	2	5/16"	1/4"
W12, W14	3	5/16"	1/4"
W16	4	3/8"	1/4"
W18	5	3/8"	1/4"
W21	6	3/8"	1/4"
W24, W27	7	3/8"	1/4"



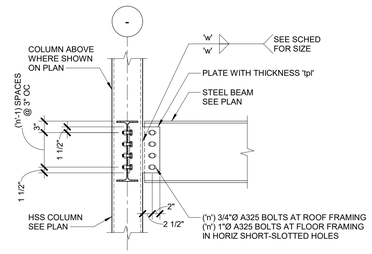
NOTES:

1. FILLET WELD SIZE, 'w', SHALL BE AS SHOWN UNLESS A LARGER SIZE IS REQUIRED BY AISC STEEL CONSTRUCTION MANUAL, TABLE J2.4.
2. BOLT SIZE AND QUANTITY SHALL BE TYP FOR ALL CONDITIONS UNLESS DETAILED OTHERWISE.

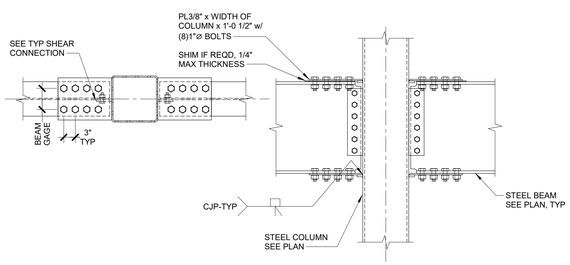
3 SHEAR CONNECTION TO BEAM
3/4" = 1'-0"



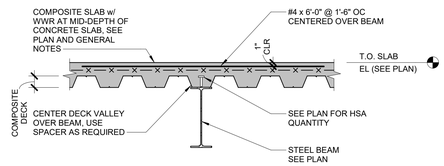
4 PLAN VIEW OF SKEWED SHEAR CONNECTIONS
3/4" = 1'-0"



5 WIDE FLANGE BEAM CONNECTION TO HSS
3/4" = 1'-0"



6 BOLTED BEAM TO COLUMN FLANGE MOMENT CONNECTION
3/4" = 1'-0"

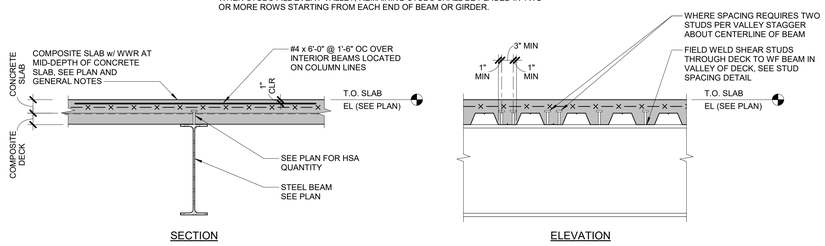


BEAM PARALLEL TO DECK FLUTES

7 COMPOSITE GIRDER CONSTRUCTION
3/4" = 1'-0"

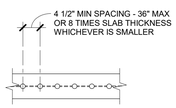
NOTE:

1. ONE STUD PER VALLEY SHALL BE PLACED STARTING FROM BOTH ENDS OF BEAM. WHEN STUDS FILL EVERY VALLEY, REMAINING STUDS SHALL BE PLACED IN TWO OR MORE ROWS STARTING FROM EACH END OF BEAM OR GIRDER.



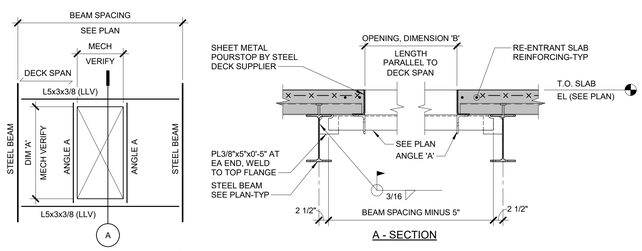
BEAM PERPENDICULAR TO DECK FLUTES

8 COMPOSITE BEAM CONSTRUCTION
3/4" = 1'-0"



1 STUD PER LINE

9 COMPOSITE STUD LAYOUT
3/4" = 1'-0"

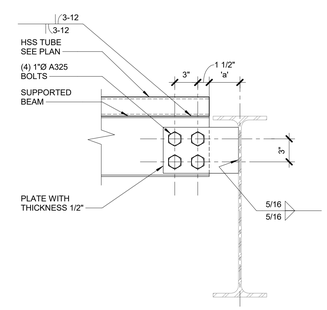


NOTES:

1. APPLIES TO ALL OPENING WITH 'A' DIMENSION GREATER THAN 2'-0" AND LESS THAN 5'-0".
2. ALL ANGLES ARE LLV:
   A. ANGLE 'A' = L4x4x1/4, DIM A = 5'-0"

COMPOSITE SLAB DECK SPAN 10'-0" AND LESS, WIDTH 'A' > 2'-0" TO 5'-0"

10 FRAMING AT FLOOR OPENING
3/4" = 1'-0"



11 EXTENDED SHEAR PLATE CONNECTION TO EXISTING BEAM
1 1/2" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
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8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

FRAMING DETAILS

S4.0

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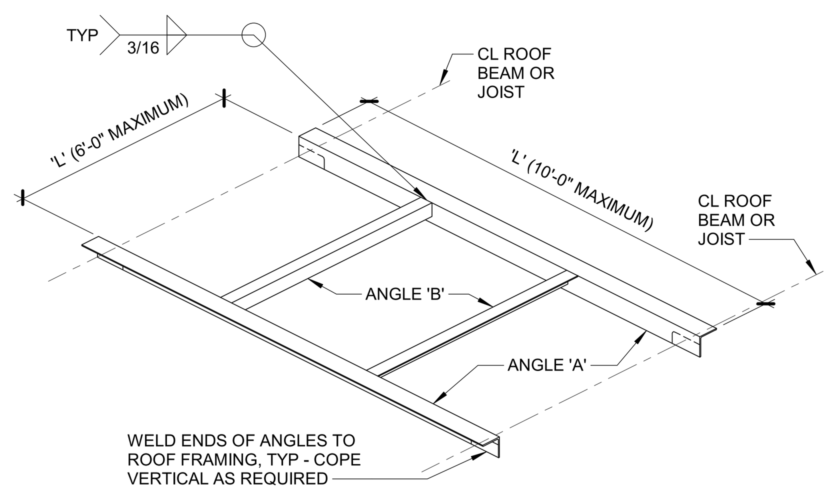
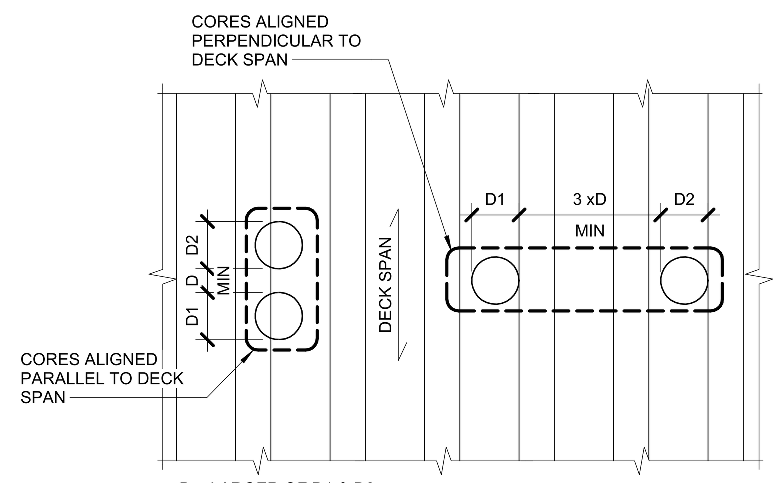


'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

NOTES:

1. SEE ARCH AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

1 ROOF OPENING FRAMING
3/4" = 1'-0"

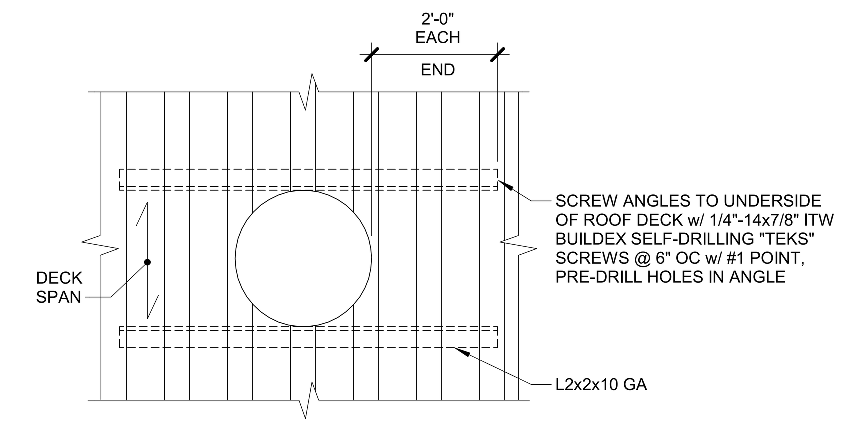


D = LARGER OF D1 & D2

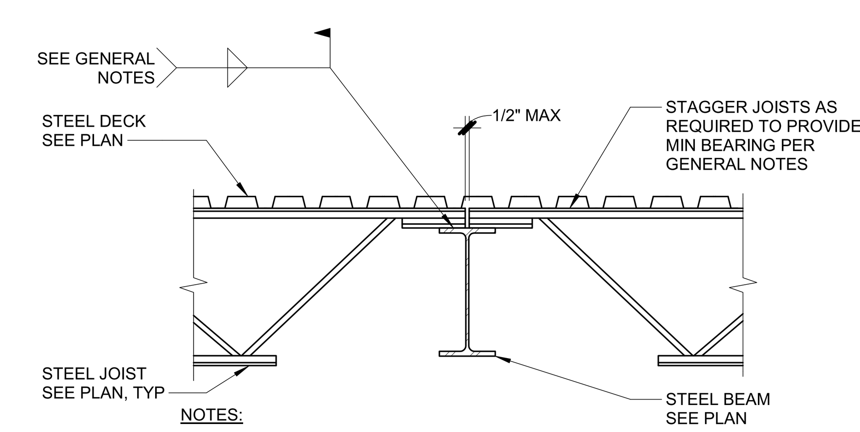
MAX PERMITTED CORE = 12"Ø

WHERE CORES ARE > 12"Ø & WHERE SPACING IS CLOSER THAN PERMITTED ABOVE, PROVIDE STEEL REINFORCEMENT AROUND THE CORES & CORE GROUPS.

2 CORING SLEEVES THROUGH SLAB ON DECK
3/4" = 1'-0"



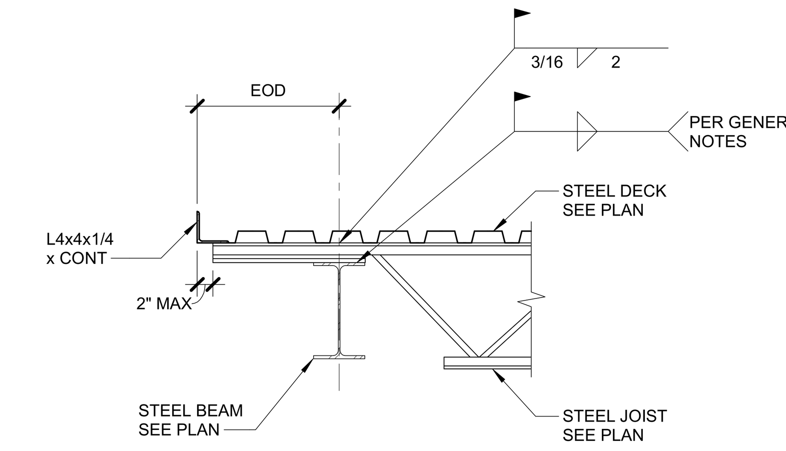
3 ROOF DECK REINFORCING AT ROOF DRAIN
1" = 1'-0"



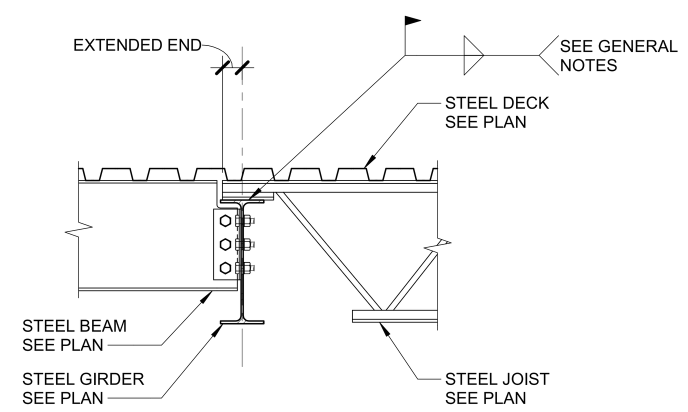
NOTES:

1. JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. SEE GENERAL NOTES FOR BOLT DIAMETER.
2. INCREASE SEAT DEPTH WHERE REQUIRED ON SLOPING JOISTS. COORDINATE SEAT DEPTH DIMENSION WITH STEEL DETAILER AND ADJUST TOP OF BEAM ELEVATION AS REQUIRED.

4 ROOF JOIST BEARING AT BEAM
3/4" = 1'-0"



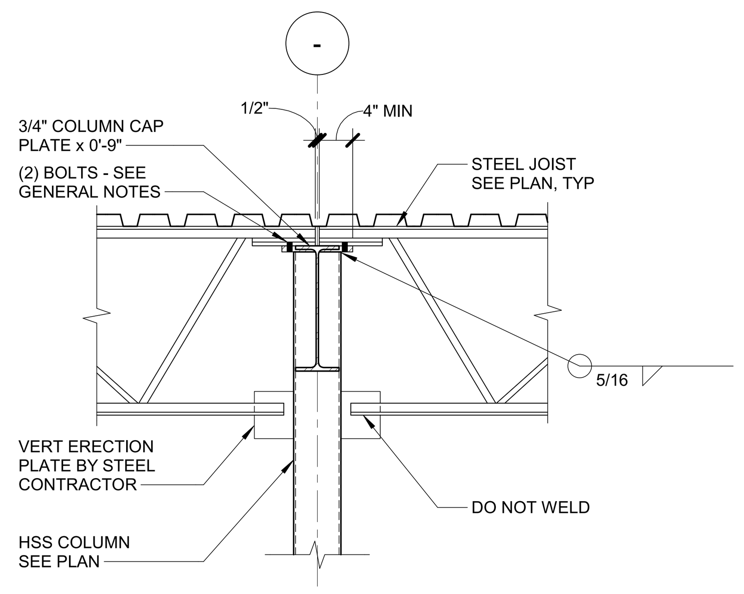
5 ROOF JOIST BEARING AT EDGE BEAM
3/4" = 1'-0"



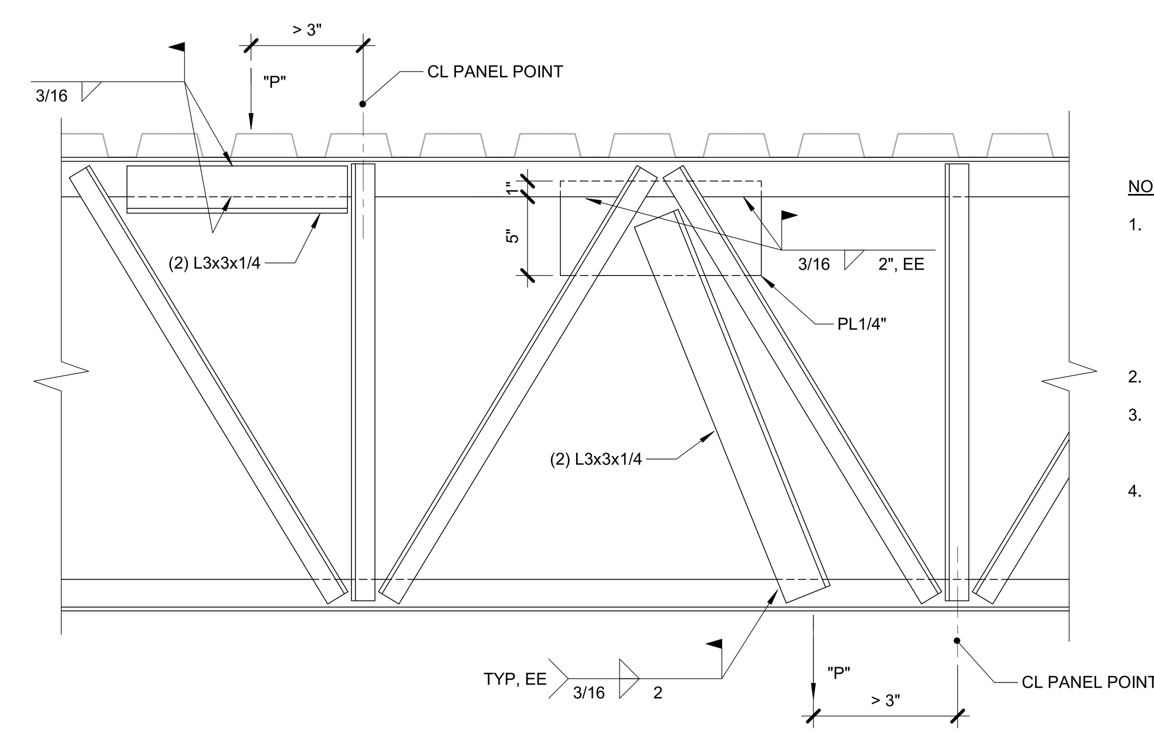
6 JOIST / BEAM BEARING AT ROOF GIRDER
3/4" = 1'-0"

NOTES:

1. ANGLE SEAT ACCOMMODATES K-, LH-, AND DLH 10-17 JOISTS. DOES NOT WORK FOR DLH-18+ SERIES.
2. VERIFY PLATE THICKNESS IN BENDING FOR JOIST END REACTION. ADD STIFFENER PLATE IF NEEDED.



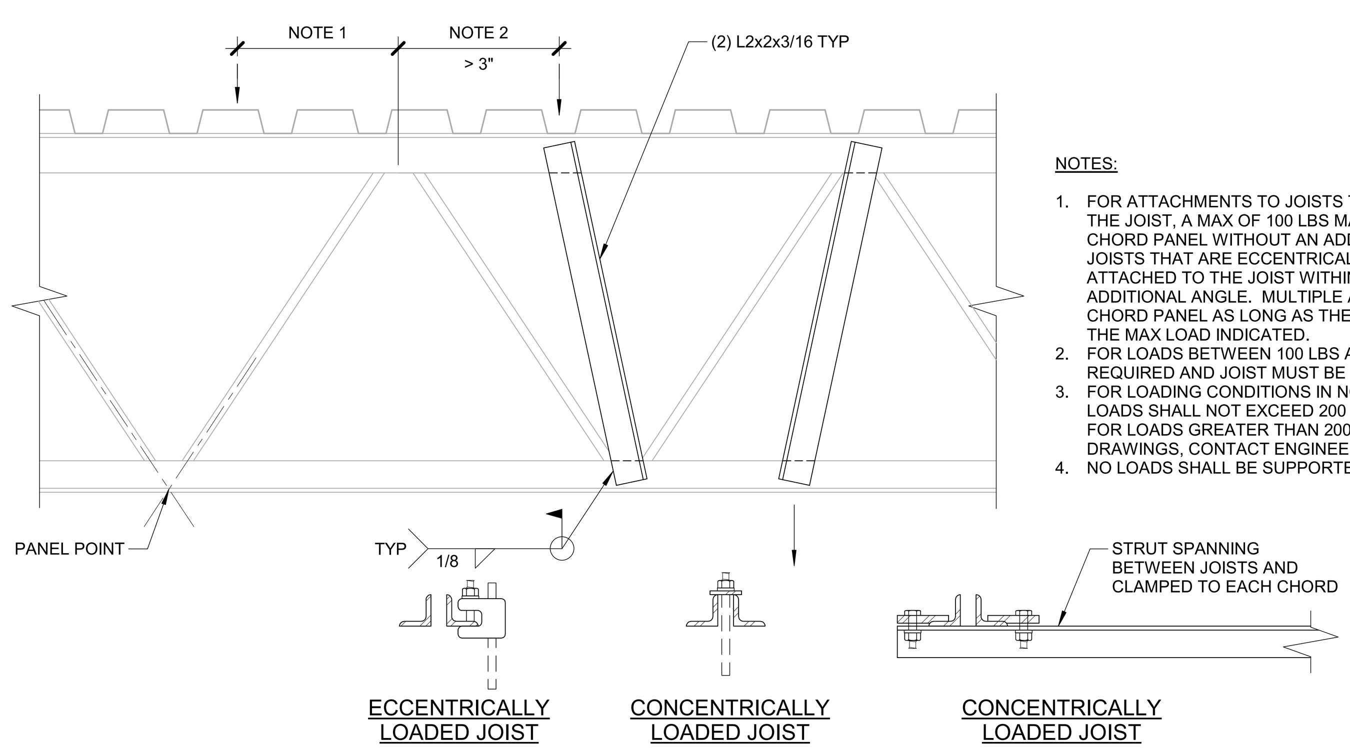
7 BAR JOIST BEARING AT HSS COLUMN
3/4" = 1'-0"



NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

8 CONCENTRATED LOADS ON LH- / DLH- JOISTS
1 1/2" = 1'-0"



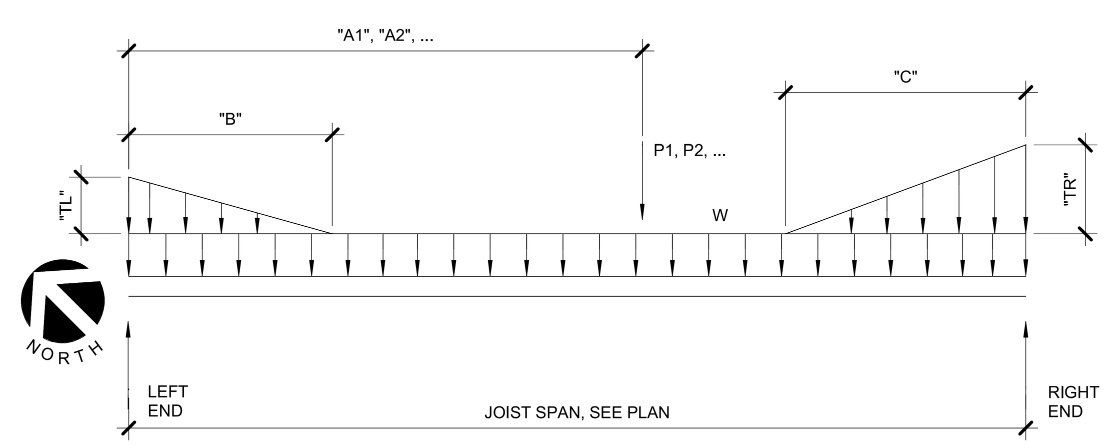
NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 LBS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 LBS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 LBS AND 200 LBS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

9 EXISTING JOIST CONCENTRATED LOAD REINFORCEMENT
1 1/2" = 1'-0"

SPECIAL JOIST LOADING SCHEDULE (ALL LOADS ARE SERVICE LOADS)

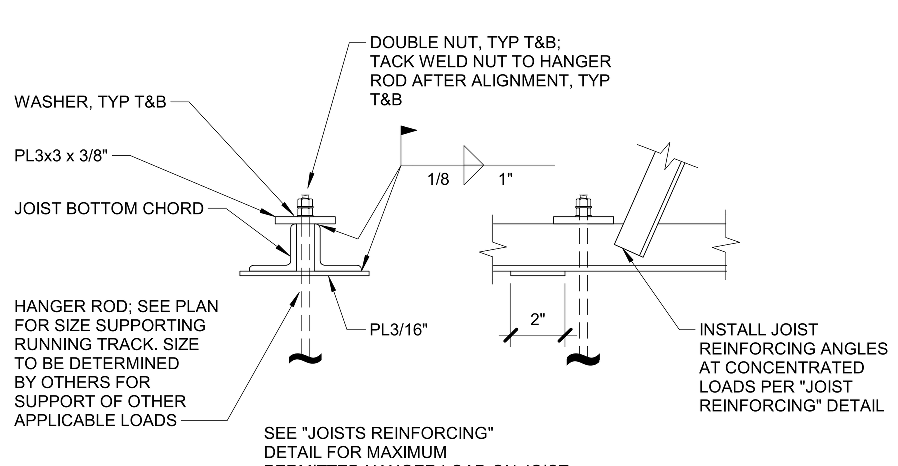
JOIST MARK	W DEAD (k/ft))	W LIVE (k/ft)	W SNOW (k/ft)	W WIND (k/ft)	P1 DEAD (kip)	P1 LIVE (kip)	P2 DEAD (kip)	P3 DEAD (kip)	P4 DEAD (kip)	A1	A2	A3	A4	TL SNOW (k/ft)	B	TR SNOW (k/ft)	C	NOTES
68DLH19SP	0.135	0.180	0.225	0.144	*4.0	*6.0	-	-	-	10'-8"	-	-	-	0.045	6'-7"	-	-	
28LH14SP	0.135	0.180	0.225	0.144	2.0	-	2.0	2.0	2.0	13'-8"	22'-0"	25'-4"	32'-4"	-	-	0.045	6'-7"	
28LH12SP	0.135	0.180	0.225	0.144	2.0	-	2.0	2.0	2.0	13'-8"	22'-0"	25'-4"	32'-4"	-	-	0.045	6'-7"	
28LH10SP	0.135	0.180	0.225	0.144	2.0	-	2.0	2.0	2.0	13'-8"	22'-0"	25'-4"	32'-4"	-	-	0.045	6'-7"	



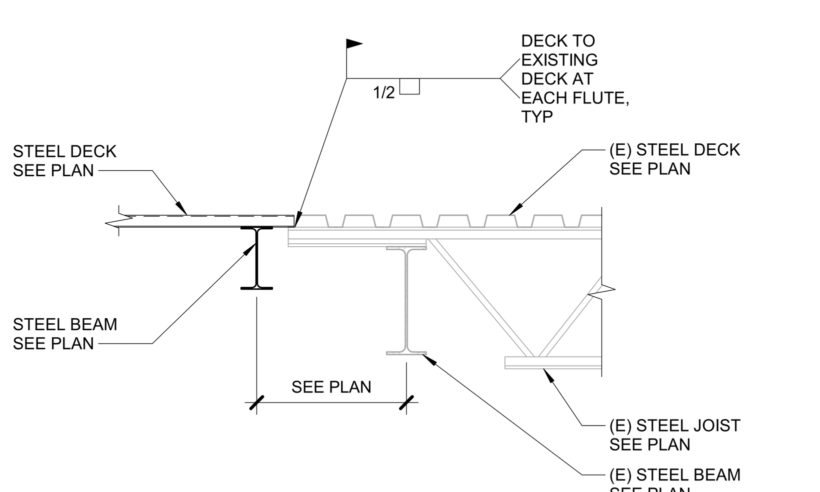
NOTES:

1. THE JOIST SELF WEIGHT IS NOT INCLUDED IN THE SCHEDULED DEAD LOADS. THE SELF WEIGHT OF THE JOISTS SHALL BE ADDED TO THE SCHEDULED DEAD LOADS BY THE JOIST MANUFACTURER'S ENGINEER.
2. POSITIVE VALUE LOAD INDICATES DOWNWARD LOAD; NEGATIVE INDICATES UPWARD LOAD.
3. MAXIMUM PERMITTED LIVE LOAD DEFLECTION = L/360, UNLESS NOTED OTHERWISE.
4. " * " INDICATES LOAD IS APPLIED TO THE JOIST ON THE BOTTOM CHORD; ALL OTHER LOADS ARE APPLIED TO THE TOP CHORD OF THE JOIST.

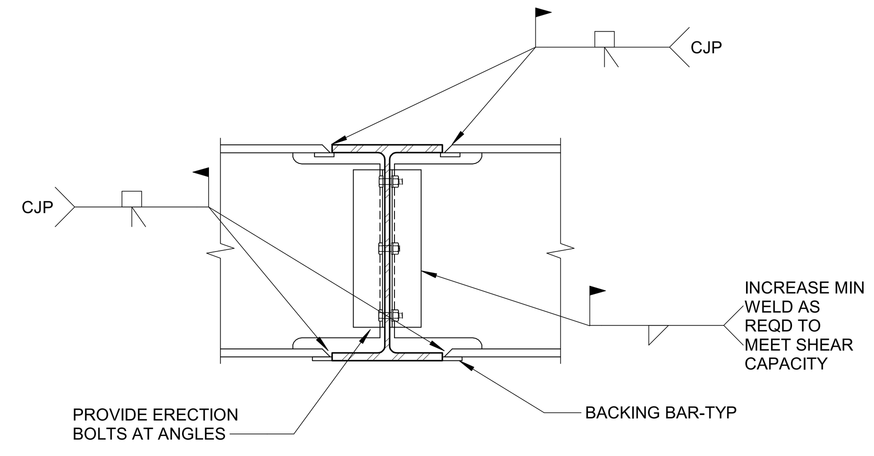
10 SPECIAL JOIST LOADING SCHEDULE
3/4" = 1'-0"



11 HANGER CONNECTION TO JOIST BOTTOM CHORD
3/4" = 1'-0"



12 NEW TO EXISTING DECK TRANSITION
3/4" = 1'-0"



NOTE:

1. ALL FULL PENETRATION WELDS SHALL BE TESTED WITH THE ULTRA-SOUND TEST.

13 MOMENT SPLICE CONNECTION
3/4" = 1'-0"

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HEATHER L. HEIDENREICH REGISTERED No. [illegible] STATE OF INDIANA PROFESSIONAL ENGINEER
EXP 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
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8869 COUNTY ROAD 250 E
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WILLIAMS ARCHITECTS

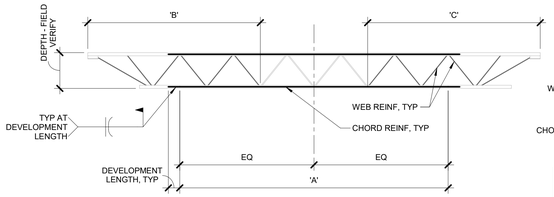
REVISIONS

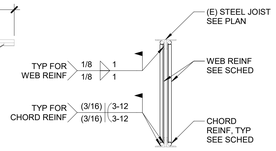
NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON. DOCS.
DWR MINKAC
CHK RYAWHA

FRAMING DETAILS

S4.1





NOTES:

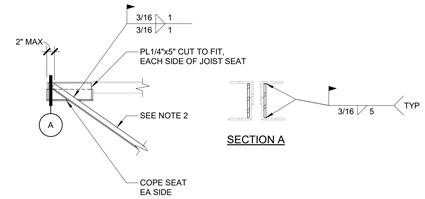
1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINF MEMBERS.
2. JOIST REINF IS DUE TO NEW ROOF EQUIPMENT OR SNOW DRIFT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE, JOIST REINF MUST BE INSTALLED.
3. SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.

NORTH

STEEL JOIST REINFORCING SCHEDULE

MARK	CHORD REINFORCING			WEB REINFORCING			REMARKS
	SIZE	'A'	DEVELOPMENT LENGTH	SIZE	'B'	'C'	
1A	(2) 3/4"Ø RODS	7'-0"	3"	L2x2x3/16	6'-0"	9'-0"	REINFORCE BOTH JOIST SEATS PER 2/S4.2
1B	N/A	N/A	N/A	L2x2x3/16	4'-0"	13'-0" TO 19'-0"	REINFORCE NORTH JOIST SEAT PER 2/S4.2 0'-0" TAKEN AS NORTH END OF JOIST
1C	N/A	N/A	N/A	L2x2x3/16	4'-0"	20'-0" TO 22'-0"	REINFORCE NORTH JOIST SEAT PER 2/S4.2 0'-0" TAKEN AS NORTH END OF JOIST
1D	(2) 3/4"Ø RODS	4'-0"	3"	L2x2x3/16	7'-0"	7'-0"	REINFORCE BOTH JOIST SEATS PER 2/S4.2

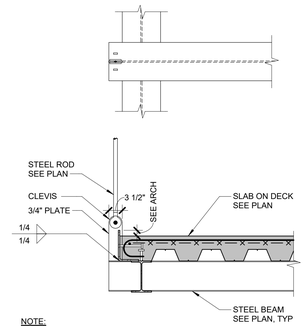
1 JOIST WEB / CHORD REINFORCEMENT
3/4" = 1'-0"



NOTES:

1. DETAIL REQUIRED ONLY WHEN FIRST WEB MEMBER IS REINF.
2. ANGLE REINF SHOWN TO ILLUSTRATE CONCEPT. (E) WEB NOT SHOWN FOR CLARITY.

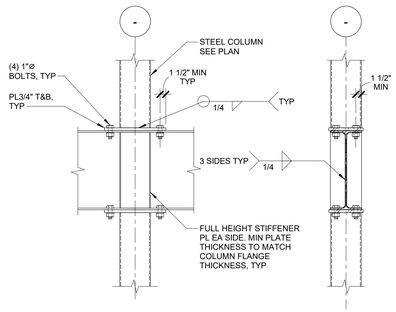
2 JOIST SEAT REINFORCEMENT
3/4" = 1'-0"



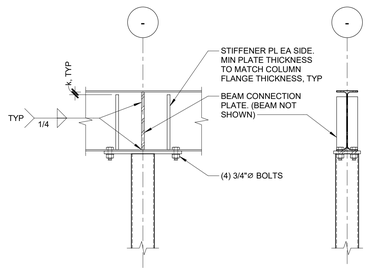
NOTE:

1. SEE 9/S4.2 FOR INFORMATION NOT SHOWN HERE.

3 HANGER ROD CONNECTION
3/4" = 1'-0"

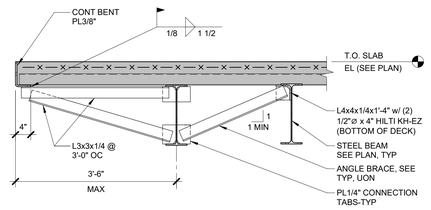


4 BEAM THROUGH COLUMN CONNECTION
3/4" = 1'-0"

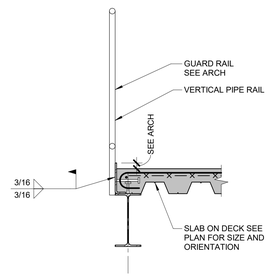


COLUMN WEB PARALLEL TO BEAM WEB

5 BEAM OVER COLUMN CONNECTION
3/4" = 1'-0"



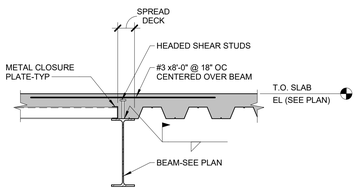
6 EXTENDED EXTERIOR SLAB EDGE
3/4" = 1'-0"



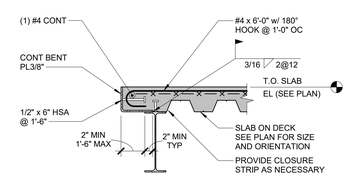
NOTES:

1. ALL STEEL SHOWN, TO BE GALVANIZED.
2. SEE 9/S4.2 FOR INFORMATION NOT SHOWN HERE.

7 GUARD RAIL SUPPORT
3/4" = 1'-0"



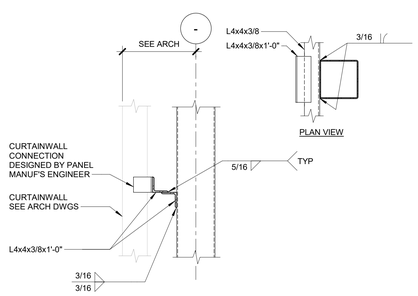
8 DECK DIRECTION CHANGE IN SLAB ON DECK
3/4" = 1'-0"



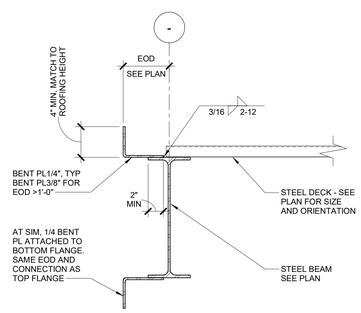
NOTE:

1. SEE 6/S4.2 WHEN MAX SLAB EDGE IS EXCEEDED.

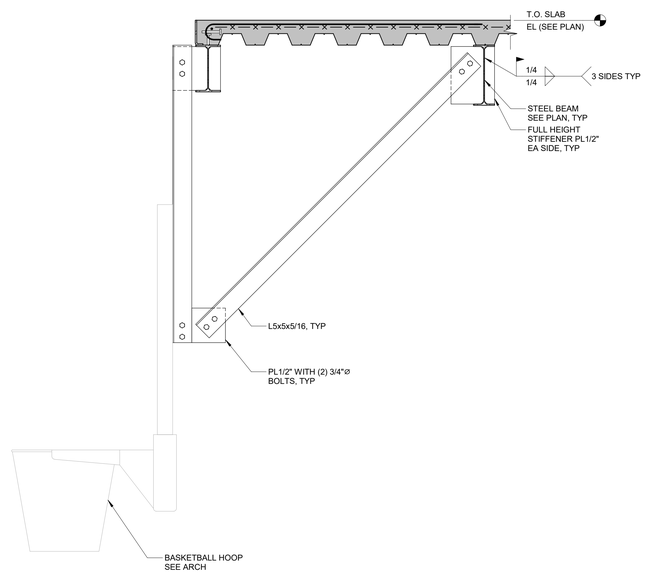
9 LOADED SLAB EDGE
3/4" = 1'-0"



10 CURTAINWALL CONNECTION TO COLUMN
3/4" = 1'-0"



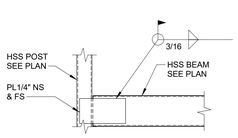
11 ROOF DECK EDGE
1 1/2" = 1'-0"



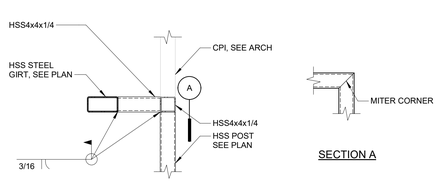
NOTES:

1. SEE 9/S4.2 FOR INFORMATION NOT SHOWN HERE.
2. PROVIDE TWO BRACES AT EACH WALL MOUNTED BASKETBALL HOOP. SPACE BRACES 5'-3" APART OR PER BACKBOARD MANUFACTURER'S INSTRUCTIONS. ATTACHMENT OF BASKETBALL HOOP TO SUPPORT BY OTHERS PER BACKBOARD MANUFACTURER'S INSTRUCTIONS.

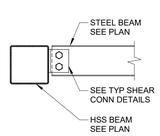
15 BASKETBALL HOOP SUPPORT CONNECTION DETAIL
3/4" = 1'-0"



12 HSS BEAM TO HSS POST CONNECTION DETAIL
3/4" = 1'-0"



13 HSS GIRT CONNECTION
3/4" = 1'-0"



14 HSS CONNECTIONS TO BEAM
3/4" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

FRAMING DETAILS

S4.2

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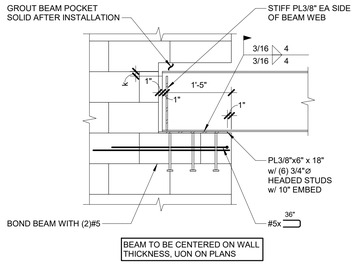


BEAM TO BE CENTERED ON WALL THICKNESS, UON ON PLANS

1 COLLECTOR BEAM BEARING ON CMU
3/4" = 1'-0"

CMU REINFORCING BAR DEVELOPMENT LENGTH (L_d) SCHEDULE

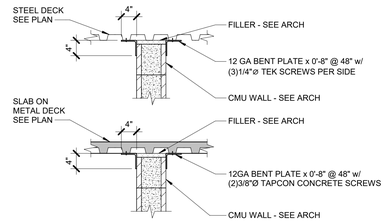
f'm=2500 PSI

CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L_d	REMARKS
8"	SINGLE LAYER, REINF CENTERED IN WALL	#4	12"	
		#5	18"	
		#6	34"	
		#7	47"	

NOTES:

1. PROVIDE LAP SPLICE LENGTHS TO MATCH Ld VALUES PROVIDED IN SCHED.
2. WHERE TWO DIFFERENT SIZES OF REINF BARS ARE LAPPED, PROVIDE Ld FOR SMALLER REINF BAR.
3. DOWEL EMBED INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.

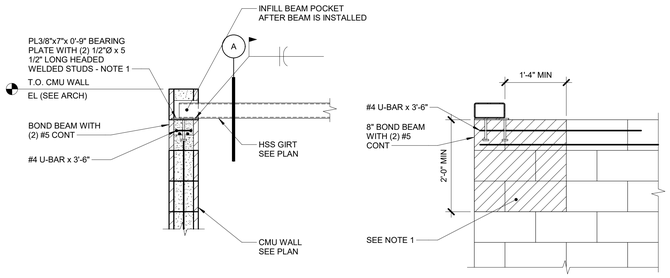
2 f'm=2500 REINFORCING BAR DEVELOPMENT LENGTH (Ld)
3/4" = 1'-0"



NOTES:

1. WALL BRACING (2)L3x3x3/16x0'-6" @ 4'-0".
2. PROVIDE THE BRACING ON ALL INTERIOR NON- STRUCTURAL CMU PARTITION WALLS. SEE ARCH DWGS FOR LOCATION OF ALL WALLS.

3 NON-STRUCTURAL CMU WALL BRACING TO DECK/SLAB
3/4" = 1'-0"

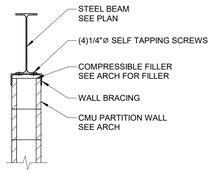


SECTION A

NOTE:

1. IN SHADED AREA, FILL ALL CORES IN WALL WITH GROUT.

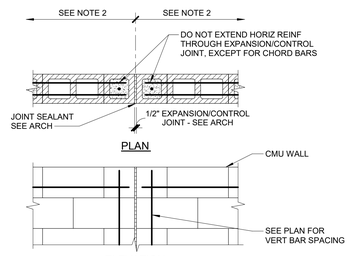
4 STEEL WIND GIRT DETAIL
3/4" = 1'-0"



NOTES:

1. WALL BRACING (2)L3x3x3/16x0'-6" @ 4'-0".
2. PROVIDE THE BRACING ON ALL INTERIOR NON-STRUCTURAL CMU PARTITION WALLS. SEE ARCH DWGS FOR LOCATION OF ALL WALLS.

5 NON-STRUCTURAL CMU WALL BRACING TO STEEL
3/4" = 1'-0"

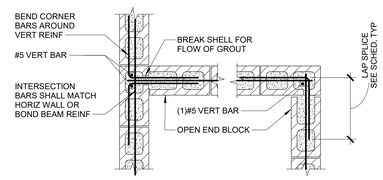


ELEVATION

NOTES:

1. JOINT TO BE CONT WITHOUT INTERRUPTION FROM FOUNDATION TO TOP OF WALL, UON.
2. MAX SPACING OF 1.5:1 WITH A MAX OF 25 FT.
3. DO NOT LOCATE JOINT OVER OPENING OR WITHIN JAMB.
4. COORDINATE LOCATION OF JOINTS WITH ARCH DRAWINGS.
5. HORIZ JOINT REINF SHALL BE DISCONTINUOUS AT EXPANSION/CONTROL JOINT.

6 CMU EXPANSION/CONTROL JOINT
3/4" = 1'-0"

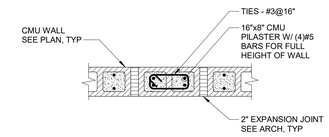


SINGLE MAT - INTERSECTION & CORNER

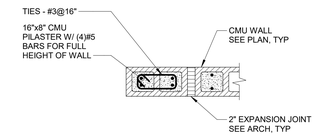
NOTES:

1. TYP VERT REINF AND GROUT NOT SHOWN FOR CLARITY.
2. DETAIL ASSUMES CORNER IS CONSTRUCTED IN RUNNING BOND WITH UNITS INTERLOCKED.

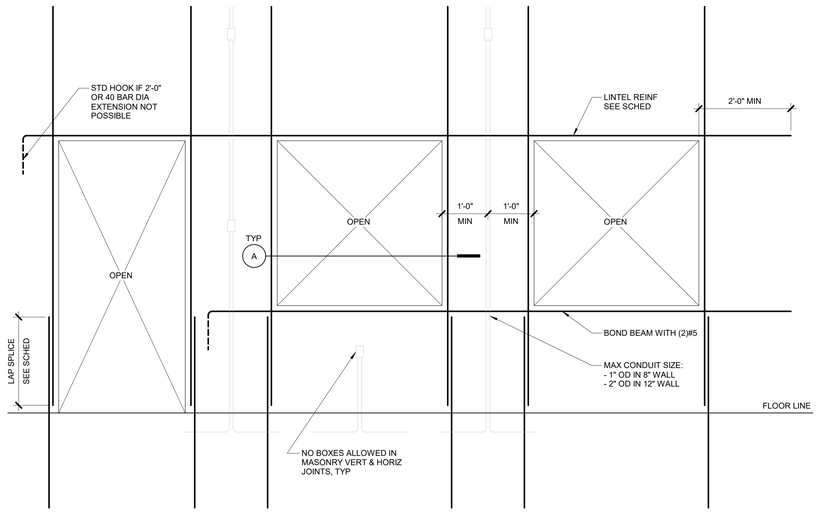
7 CMU WALL INTERSECTIONS
3/4" = 1'-0"



9 FIRE WALL PILASTER DETAIL
3/4" = 1'-0"

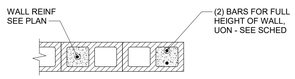


10 FIRE WALL PILASTER DETAIL
3/4" = 1'-0"



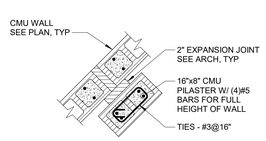
NOTES:

1. NO CONTROL JOINTS PERMITTED WITHIN 1'-4" OF OPENING.
2. NO ALUMINUM CONDUITS PERMITTED, ONLY STEEL OR PVC.
3. NO CONDUIT ALLOWED IN ANY OF THE FOLLOWING CONDITIONS:
   A. ANY VERTICAL CELL CONTAINING REINF.
   B. WITHIN 6" OF ANY HORIZONTAL BAR EXCEPT AT CROSSINGS.
4. NO JUNCTION BOXES ARE ALLOWED WHERE VERTICAL REINF IS SPACED @ 8".
5. NO HORIZ CONDUIT RUNS LONGER THAN 4'-0" AND SHALL NOT TO BE PLACED IN BOND BEAMS. ALL HORIZ CONDUITS TO BE 6" MIN AWAY FROM HORIZ BARS.
6. THE ARCHITECT/STRUCTURAL ENGINEER RESERVE THE RIGHT TO MODIFY OR RESTRICT THE USE OF THESE GUIDELINES BASED ON ACTUAL FIELD CONDITIONS AND QUALITY OF EXECUTION.
7. ALL ELECTRICAL CONDUITS IN CMU WALLS MUST BE RIGID ELECTRICAL CONDUITS.
8. PLUMBING PIPE NOT ALLOWED IN CMU WALL.
9. CONDUITS TO BE PLACED BY TEMPLATE AND ACCURATELY IN THESE SPACES - NO VARIATIONS.

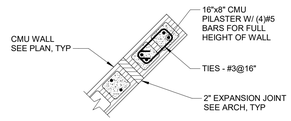


SECTION A

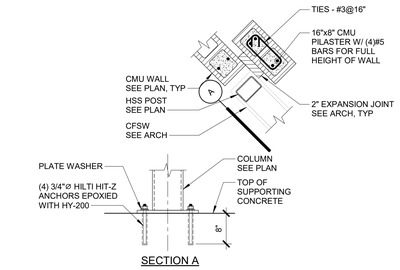
8 CMU WALL OPENING REINFORCING AND CONDUIT IN WALL
3/4" = 1'-0"



11 FIRE WALL PILASTER DETAIL
3/4" = 1'-0"

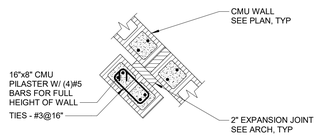


12 FIRE WALL PILASTER DETAIL
3/4" = 1'-0"

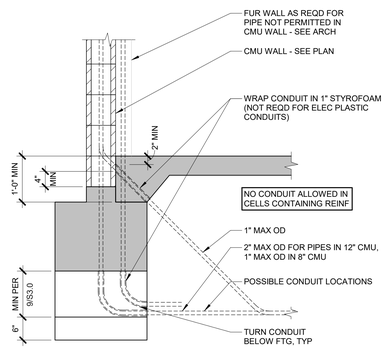


SECTION A

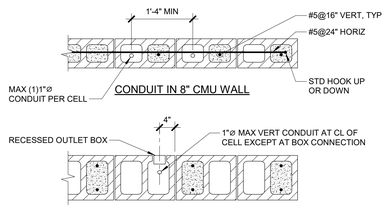
13 FIRE WALL PILASTER DETAIL
3/4" = 1'-0"



14 FIRE WALL PILASTER DETAIL
3/4" = 1'-0"



15 CONDUITS IN CMU WALL AND FOOTING
3/4" = 1'-0"



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Exp 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

CMU DETAILS

S5.0

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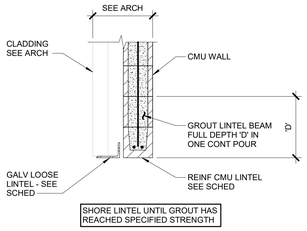
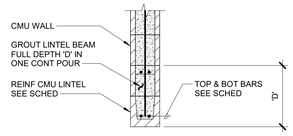


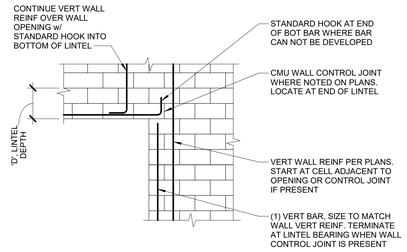
1 REINFORCED CMU LINTEL WITH VENEER
3/4" = 1'-0"



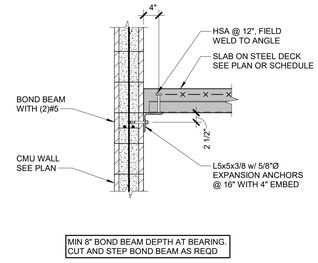
NOTES:

1. SHORE LINTEL UNTIL GROUT HAS REACHED SPECIFIED STRENGTH.
2. SEE ARCH DRAWINGS FOR LINTEL LOCATIONS AND CLEAR SPANS.
3. LINTEL REINF TO BE CONT FOR FULL SPAN.
4. PROVIDE 8" MIN BEARING FOR CLEAR SPAN 8'-8" OR LESS AND 16" MIN BEARING FOR SPANS GREATER THAN 8'-8".
5. EXTEND BOTTOM REINF FOR FULL BEARING LENGTH EACH END. EXTEND TOP REINF 40 BAR DIAMETERS INTO WALL EACH END. TERMINATE TOP REINF WITH STANDARD HOOK AT CONTROL JOINTS OR FREE EDGES.

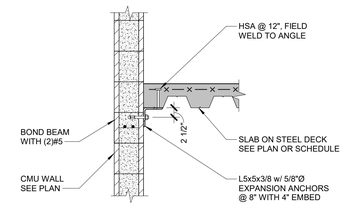
2 REINFORCED CMU LINTEL
3/4" = 1'-0"



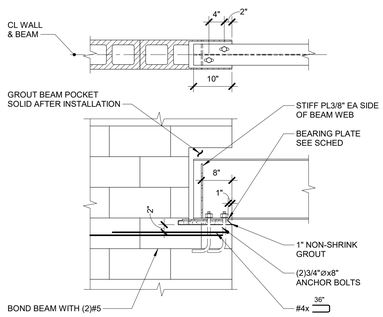
3 REINFORCED CMU LINTEL AT BEARING
3/4" = 1'-0"



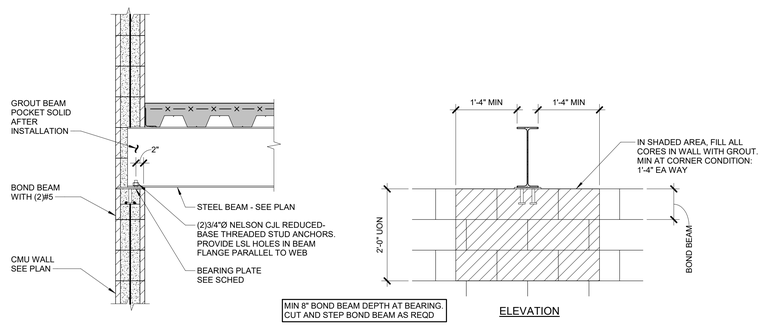
4 SLAB ON DECK BEARING AT CMU WALL
3/4" = 1'-0"



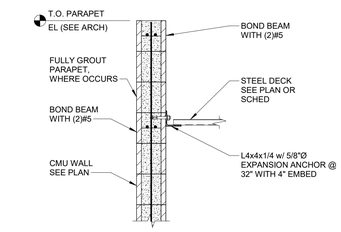
5 FLOOR SLAB ON DECK PARALLEL TO WALL
3/4" = 1'-0"



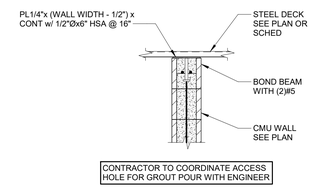
6 BEAM BEARING PARALLEL TO CMU WALL
3/4" = 1'-0"



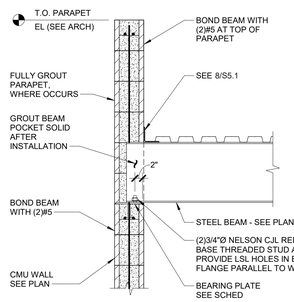
7 FLOOR STEEL BEAM BEARING ON CMU WALL
3/4" = 1'-0"

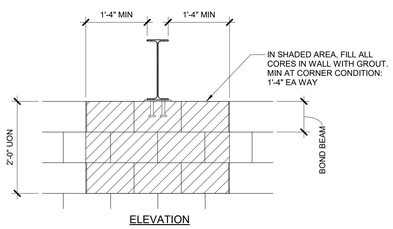


8 ROOF DECK BEARING AT CMU WALL
3/4" = 1'-0"



9 ROOF DECK BEARING ON CMU WALL
3/4" = 1'-0"





10 ROOF STEEL BEAM BEARING ON CMU WALL
3/4" = 1'-0"

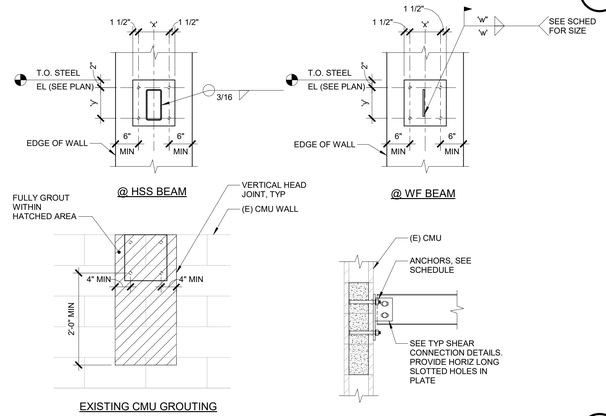
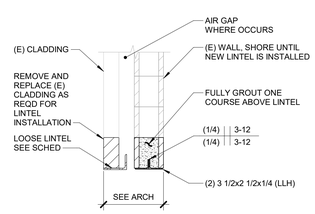


PLATE DIMENSIONS							
MARK	PLATE THICKNESS 't'	NUMBER VERTICAL COLUMNS	NUMBER HORIZONTAL ROWS	EXISTING WALL TYPE	ANCHORS	'x'	'y'
2	1/2"	2	2	CMU WALL - SEE NOTE 2	(4) 3/4"Ø THREADED RODS WITH 6" EMBED, EPOXIED WITH HY-270	8"	8"

NOTES:

1. REMOVE FACE BRICK AS REQUIRED TO EXPOSE STRUCTURAL BACK UP.
2. ANCHORS TO BE PLACED 4" FROM VERTICAL HEAD JOINTS AT CMU WALLS. FIELD LOCATE PLATE AS REQUIRED.

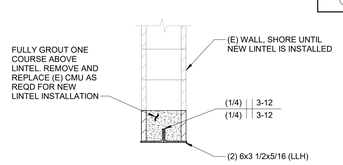
11 FACE PLATE DETAIL
3/4" = 1'-0"



NOTES:

1. LINTEL FOR NEW MEP OPENING IN EXISTING MASONRY WALL. SEE ARCH AND MEP DRAWINGS FOR EXACT LOCATION AND OPENING DIMENSIONS.
2. MINIMUM 8" BEARING TO BE PROVIDED FOR LINTEL.

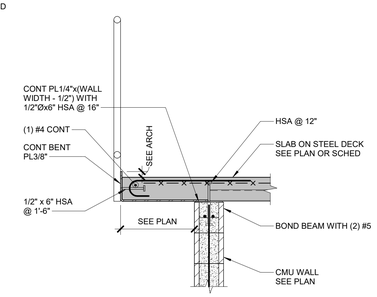
14 DOUBLE ANGLE LINTEL WITH VENEER IN EXISTING WALL
3/4" = 1'-0"



NOTES:

1. LINTEL FOR NEW MEP OPENING IN EXISTING MASONRY WALL. SEE ARCH AND MEP DRAWINGS FOR EXACT LOCATION AND OPENING DIMENSIONS.
2. MINIMUM 8" BEARING TO BE PROVIDED FOR LINTEL.

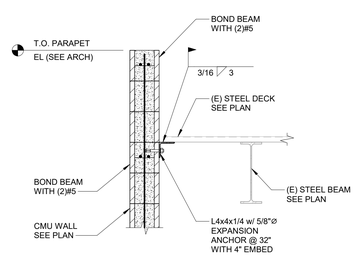
15 DOUBLE ANGLE LINTEL IN EXISTING WALL
3/4" = 1'-0"



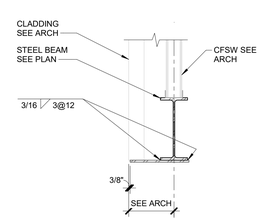
NOTE:

1. SEE 9/S4.2 FOR INFORMATION NOT SHOWN HERE.

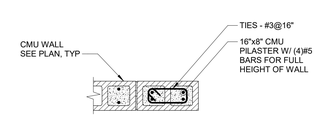
12 FLOOR SLAB ON DECK BEARING ON CMU WALL
3/4" = 1'-0"



13 EXISTING EDGE OF DECK BEARING ON CMU WALL
3/4" = 1'-0"



16 WIDE FLANGE LINTEL WITH VENEER
3/4" = 1'-0"



NOTES:

1. STEEL BEAM BEARING TO BE LOCATED DIRECTLY ABOVE CMU PILASTER.

17 CMU PILASTER DETAIL
3/4" = 1'-0"

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EXP 7/31/26

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	MINKAC
CHK	RYAWHA

CMU DETAILS

S5.1

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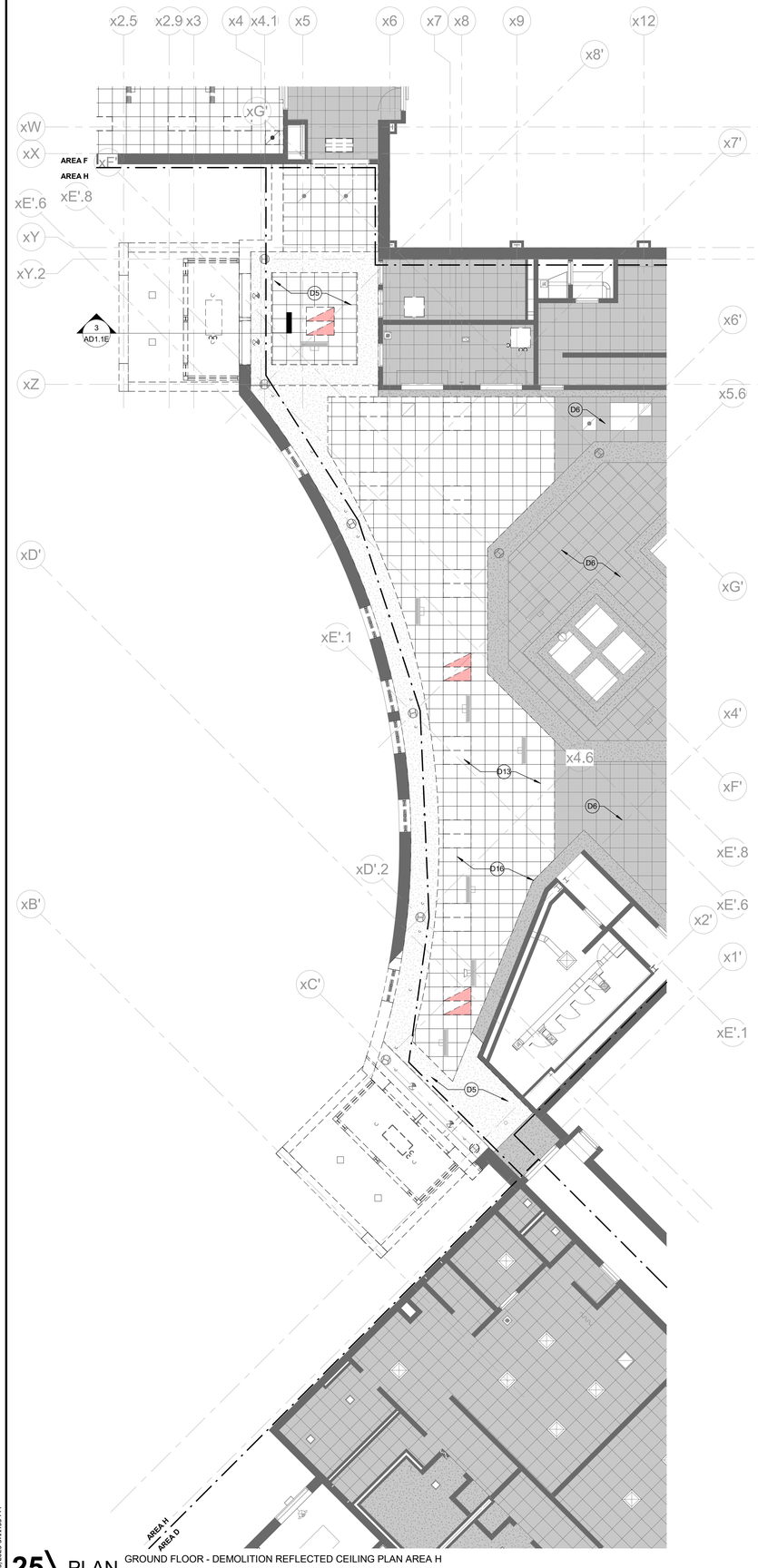
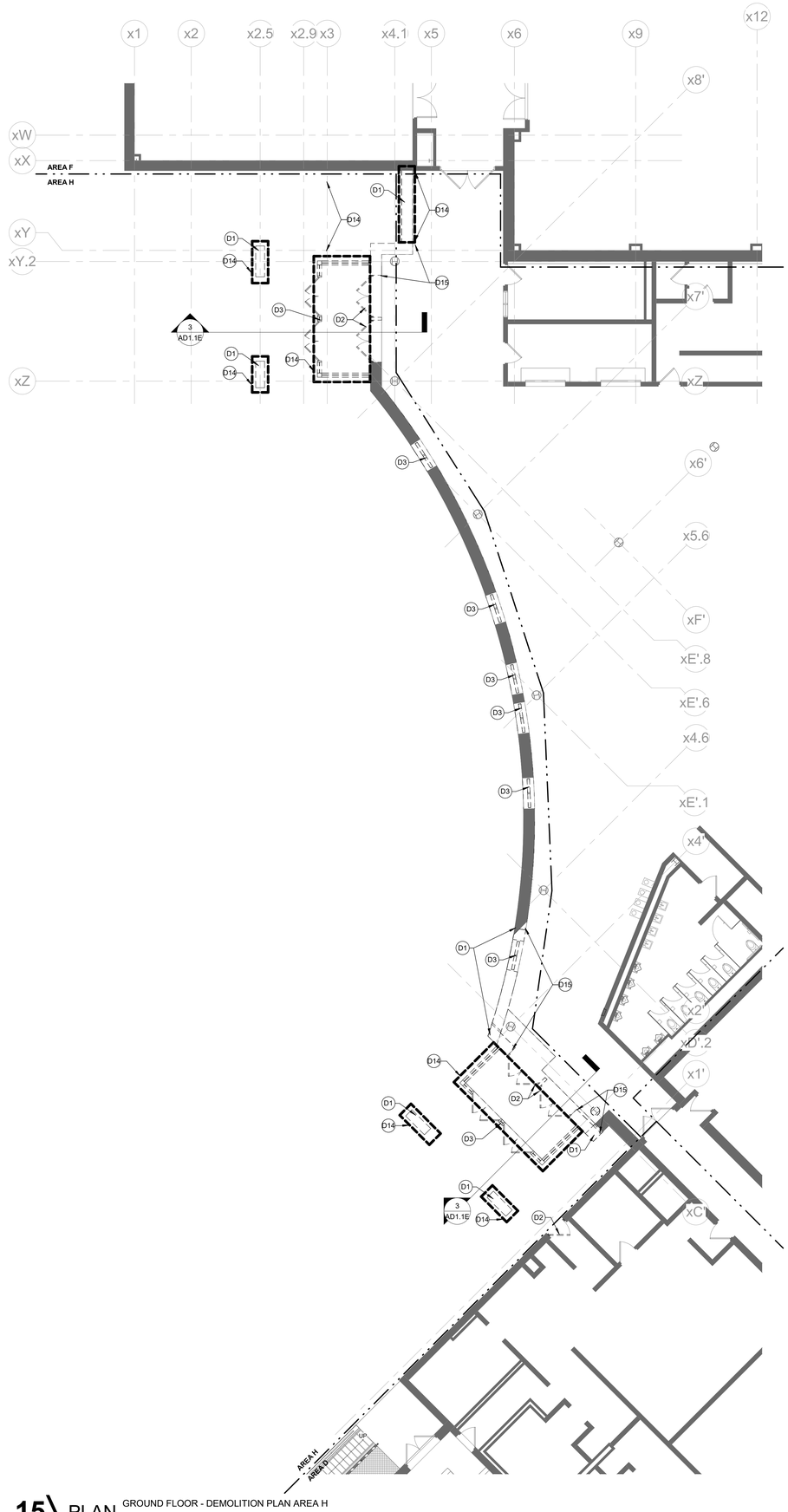


25 PLAN GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA H

SCALE: 1/8" = 1'-0"



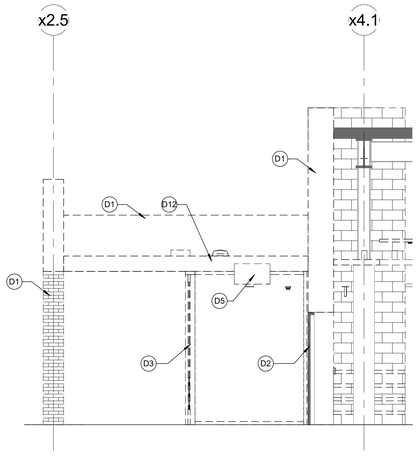
15 PLAN GROUND FLOOR - DEMOLITION PLAN AREA H

SCALE: 1/8" = 1'-0"

DEMOLITION GENERAL NOTES

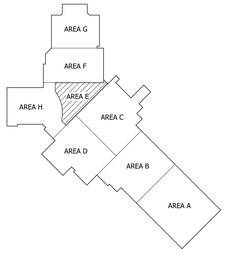
1. PARTITION CONSTRUCTION AND LIMIT THE SPREAD OF DUST TO ADJACENT OCCUPIED AREAS. VOIDS SHALL EITHER BE FILLED SOLID WITH A CEMENTIOUS MIXTURE OR A FIRE RATED CAULKING COMPOUND.
2. UNLESS OTHERWISE NOTED: WHERE EXISTING PARTITION AND WALLS ARE TO BE REMOVED, CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL CONDUITS, PLUMBING AND OTHER RELATED ITEMS SO AS TO RECEIVE NEW CONSTRUCTION.
3. REMOVE EXISTING PARTITIONS AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF NEW DOORS AND FRAMES. PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS TO MATCH EXISTING CONDITIONS. CONTRACTOR SHALL SEAL ALL DOORS TO REMAIN WITH TAPE AND PLASTIC SHEETING TO PREVENT USAGE EXCEPT DURING EMERGENCY.
4. DURING ALL DEMOLITION OPERATIONS THE CONTRACTOR SHALL MINIMIZE ASSOCIATED DUST AND VIBRATIONS. COORDINATE WITH OWNER FOR CRITICAL SEQUENCING (IF ANY) AND FOR EXTENT OF ADJACENT OCCUPIED AREAS AFFECTED. PROVIDE DAMPENED MATS AT EACH ENTRY / EXIT POINT TO THE CONTACT AREA.
5. THE DEMOLITION DRAWINGS ARE INTENDED TO BE SCHEMATIC SCOPE DOCUMENTS. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS COMPLETELY, AND SHALL INCLUDE IN HIS PRICE ALL WORK NECESSARY TO COMPLETE THE INTENDED CONSTRUCTION WORK INDICATED ON DOCUMENTS.
6. THE DEMOLITION CONTRACTOR, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS DOING DEMOLITION AS PART OF THEIR SCOPE OF WORK, SHALL CAREFULLY REVIEW ALL THE CONSTRUCTION DOCUMENTS FOR LOCATIONS OF NEW WORK THAT MAY TIE INTO EXISTING PIPING, CONDUITS, CONSTRUCTION, ETC. EXISTING PIPING AND CONDUIT TO REMAIN THAT IS DAMAGED DURING DEMOLITION WILL BE REPLACED / REPAIRED AS NECESSARY BY THOSE CONTRACTORS DOING THE WORK AT NO ADDITIONAL COST TO THE OWNER.
7. THE DEMOLITION SCOPE OF WORK SHALL INCLUDE PATCHING TO MATCH EXISTING OF ALL HOLES LEFT BY THE DEMOLITION WORK ON EXPOSED SURFACES.
8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DANGEROUS OF NON-CONFORMING CONDITIONS PRIOR TO PROCEEDING. EXISTING CONDITIONS ARE SHOWN TO THE BEST KNOWLEDGE OF THE ARCHITECT. IF ACTUAL CONDITIONS VARY, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING IN AFFECTED AREAS. WHERE EXISTING UTILITIES ARE SHOWN OR REQUIRED TO BE CAPPED, REMOVED, OR ALTERED, WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE PUBLIC UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION . APPROPRIATE AUTHORITIES / AGENCIES SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND REMOVAL FROM SITE OF ALL CONSTRUCTION DEBRIS, SALVAGED MATERIAL, ETC. ON A DAILY BASIS AND AT THE COMPLETION OF THE WORK. DAILY CLEAN UP TO INCLUDE CLEANING OF SURROUNDING AREAS.
10. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR ADDITIONAL DEMOLITION INFORMATION.
11. CAP ALL EXISTING PIPING AT PLUMBING FIXTURES TO BE REMOVED AND NOT REPLACED.
12. SHORE EXISTING BEARING WALLS AND ROOF STRUCTURES AS REQUIRED DURING DEMOLITION WORK.

DEMOLITION PLAN KEYNOTES	
#	NOTE
D1	REMOVE WALL. SAWCUT AS REQUIRED. REMOVE ALL ASSOCIATED MECHANICAL, PLUMBING AND ELECTRICAL ITEMS.
D2	REMOVE DOOR AND FRAME.
D3	REMOVE STOREFRONT SYSTEM.
D5	REMOVE CEILING IN ITS ENTIRETY; INCLUDING BUT NOT LIMITED TO CEILING SYSTEM, LIGHTS AND ALL MEP ITEMS, REFER TO MEP DRAWINGS.
D6	CEILING TO REMAIN.
D7	REMOVE RUST FROM STRUCTURE AND DECK. PREP ALL EXPOSED STEEL FOR PAINTING.
D8	SAWCUT AND REMOVE EXISTING COMPOSITE MASONRY AS REQ. FOR NEW LINTEL AND NEW MECHANICAL WORK. SEE MECHANICAL DWGS.
D9	REMOVE FINISH FLOORING SYSTEM AND PREP FOR NEW FLOOR INSTALLATION.
D10	REMOVE EXISTING LOUVER FOR MECHANICAL WORK. SEE MECHANICAL DWGS.
D11	SAWCUT AND REMOVE CMU AS REQ. FOR NEW MECHANICAL WORK. SEE MECHANICAL DWGS.
D12	REMOVE ROOF AND ROOF STRUCTURE.
D13	REMOVE EXISTING LIGHT FIXTURES, CEILING TILES, AND CEILING GRID AS REQUIRED TO PERFORM ABOVE CEILING WORK AND REINSTALL UPON COMPLETION. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS AND COORDINATE EXTENT OF REMOVAL.
D14	REMOVE FOOTING AND FOUNDATION WALL.
D15	REMOVE FOUNDATION WALL. FOOTING TO REMAIN.
D16	REMOVE EXISTING APPLIED FIREPROOFING AS REQUIRED TO INSTALL REINFORCEMENT AT EXISTING JOIST AND PREP FOR NEW APPLIED FIREFROOFING. REFER TO STRUCTURAL. DRAWINGS



3 SECTION EXISTING VESTIBULE

SCALE: 1/4" = 1'-0"



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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
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DWR	LTT
CHK	TAS

GROUND FLOOR - DEMOLITION PLANS AREA H

AD1.1E

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DEMOLITION PLAN KEYNOTES	
#	NOTE
D1	REMOVE WALL. SAWCUT AS REQUIRED. REMOVE ALL ASSOCIATED MECHANICAL, PLUMBING AND ELECTRICAL ITEMS.
D2	REMOVE DOOR AND FRAME.
D3	REMOVE STOREFRONT SYSTEM.
D5	REMOVE CEILING IN ITS ENTIRETY; INCLUDING BUT NOT LIMITED TO CEILING SYSTEM, LIGHTS AND ALL MEP ITEMS, REFER TO MEP DRAWINGS.
D6	CEILING TO REMAIN.
D7	REMOVE RUST FROM STRUCTURE AND DECK. PREP ALL EXPOSED STEEL FOR PAINTING.
D8	SAWCUT AND REMOVE EXISTING COMPOSITE MASONRY AS REQ. FOR NEW LINTEL AND NEW MECHANICAL WORK. SEE MECHANICAL DWGS.
D9	REMOVE FINISH FLOORING SYSTEM AND PREP FOR NEW FLOOR INSTALLATION.
D10	REMOVE EXISTING LOUVER FOR MECHANICAL WORK. SEE MECHANICAL DWGS.
D11	SAWCUT AND REMOVE CMU AS REQ. FOR NEW MECHANICAL WORK. SEE MECHANICAL DWGS.
D12	REMOVE ROOF AND ROOF STRUCTURE.
D13	REMOVE EXISTING LIGHT FIXTURES, CEILING TILES, AND CEILING GRID AS REQUIRED TO PERFORM ABOVE CEILING WORK AND REINSTALL UPON COMPLETION. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS AND COORDINATE EXTENT OF REMOVAL.
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D15	REMOVE FOUNDATION WALL. FOOTING TO REMAIN.
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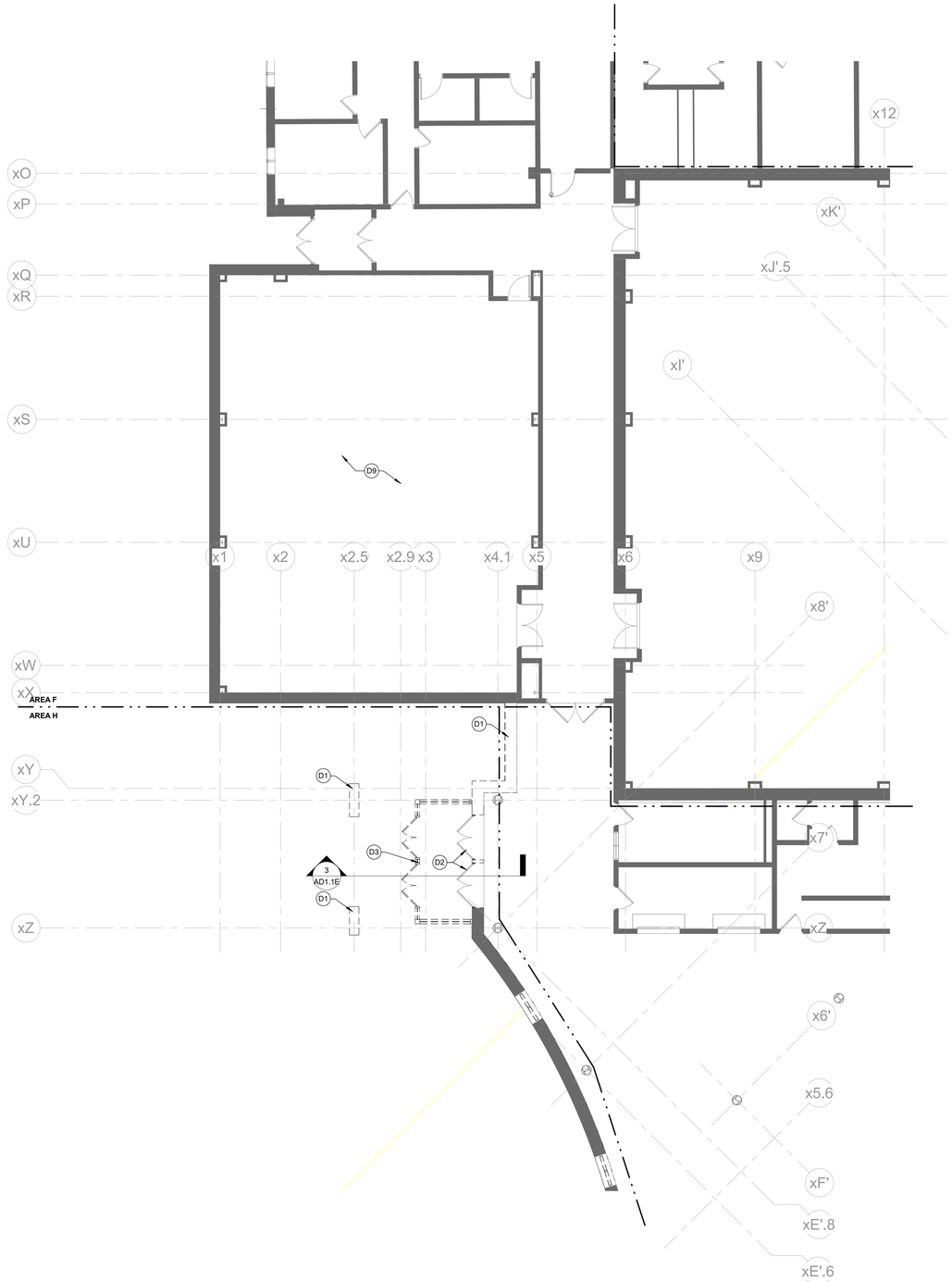

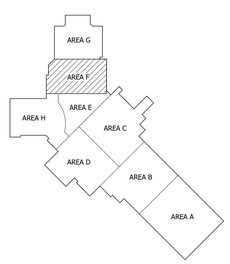

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25 PLAN GROUND FLOOR - DEMOLITION PLAN AREA F
SCALE: 1/8" = 1'-0"

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CHK	TAS

GROUND FLOOR - DEMOLITION PLANS AREA F

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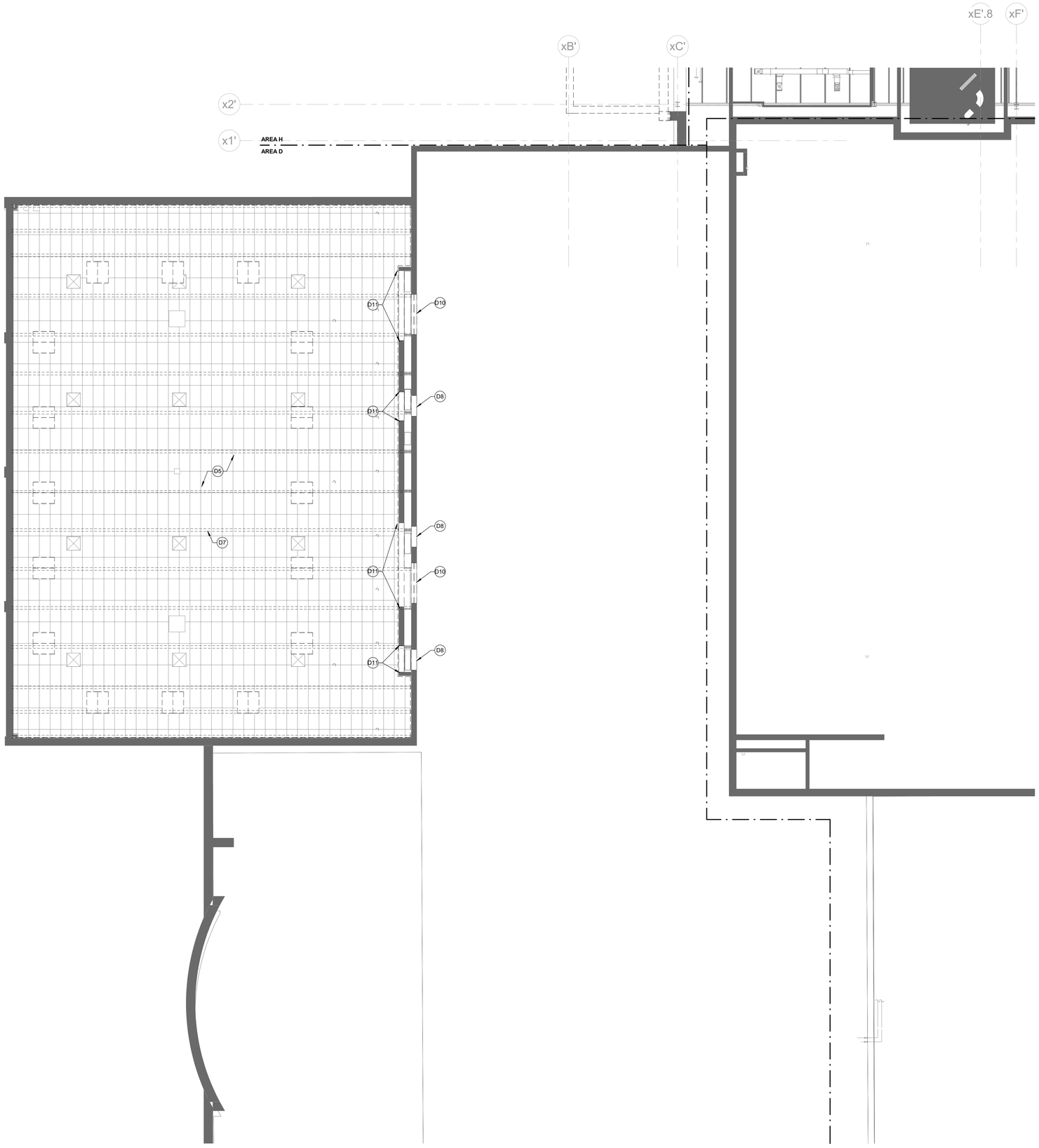

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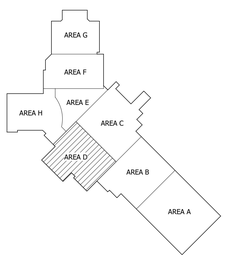

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25 PLAN GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA D

SCALE: 1/8" = 1'-0"

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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

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DWR	LTT
CHK	TAS

GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA D

AD2.1D

DEMOLITION PLAN KEYNOTES	
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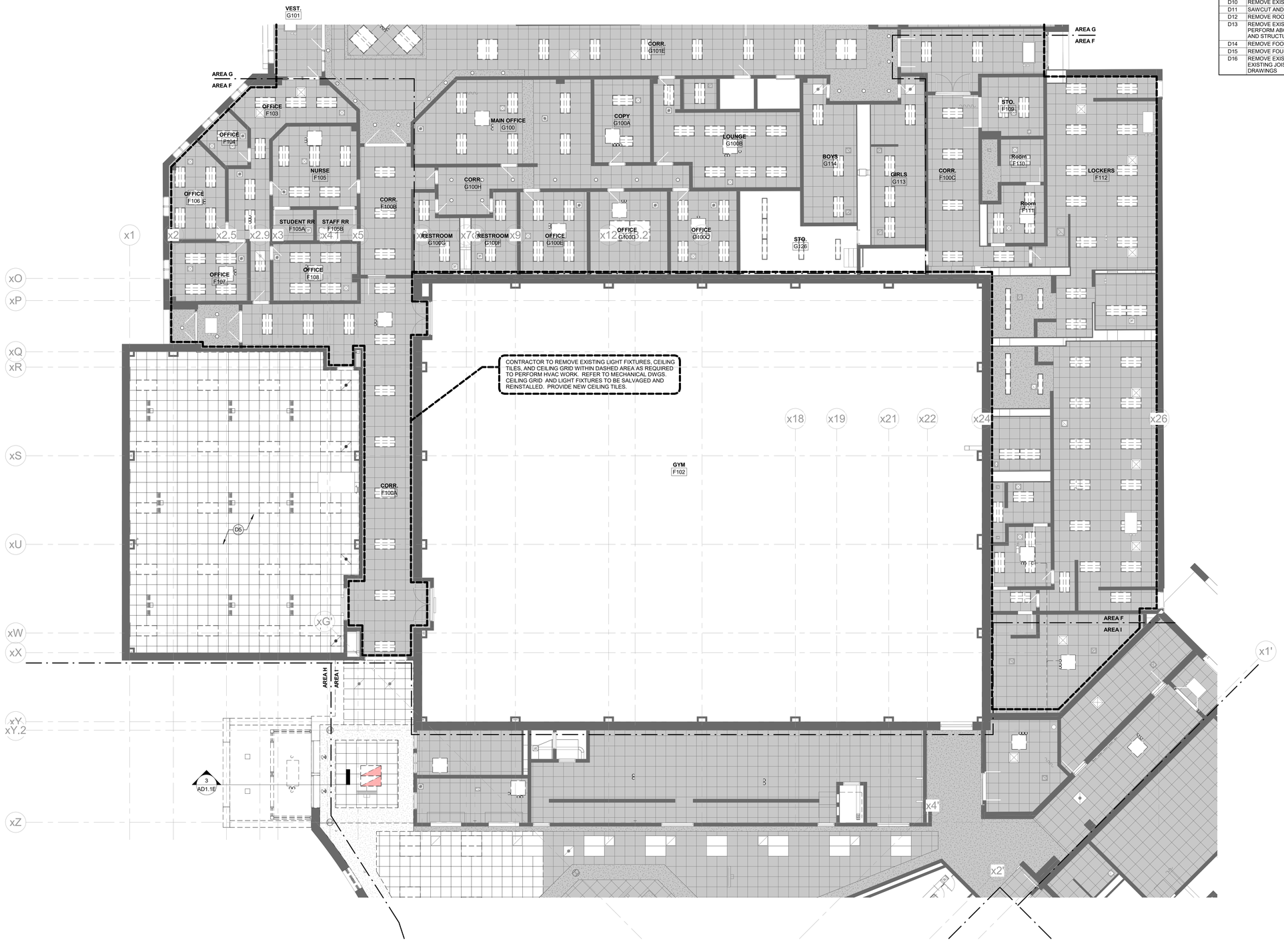
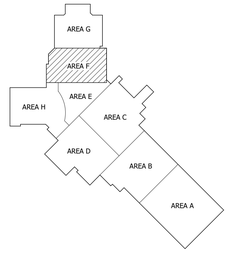
D3	REMOVE STOREFRONT SYSTEM.
D5	REMOVE CEILING IN ITS ENTIRETY; INCLUDING BUT NOT LIMITED TO CEILING SYSTEM, LIGHTS AND ALL MEP ITEMS, REFER TO MEP DRAWINGS.
D6	CEILING TO REMAIN.
D7	REMOVE RUST FROM STRUCTURE AND DECK. PREP ALL EXPOSED STEEL FOR PAINTING.
D8	SAWCUT AND REMOVE EXISTING COMPOSITE MASONRY AS REQ. FOR NEW LINTEL AND NEW MECHANICAL WORK. SEE MECHANICAL DWGS.
D9	REMOVE FINISH FLOORING SYSTEM AND PREP FOR NEW FLOOR INSTALLATION.
D10	REMOVE EXISTING LOUVER FOR MECHANICAL WORK. SEE MECHANICAL DWGS.
D11	SAWCUT AND REMOVE CMU AS REQ. FOR NEW MECHANICAL WORK. SEE MECHANICAL DWGS.
D12	REMOVE ROOF AND ROOF STRUCTURE.
D13	REMOVE EXISTING LIGHT FIXTURES, CEILING TILES, AND CEILING GRID AS REQUIRED TO PERFORM ABOVE CEILING WORK AND REINSTALL UPON COMPLETION. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS AND COORDINATE EXTENT OF REMOVAL.
D14	REMOVE FOOTING AND FOUNDATION WALL.
D15	REMOVE FOUNDATION WALL. FOOTING TO REMAIN.
D16	REMOVE EXISTING APPLIED FIREPROOFING AS REQUIRED TO INSTALL REINFORCEMENT AT EXISTING JOIST AND PREP FOR NEW APPLIED FIREFROOFING. REFER TO STRUCTURAL DRAWINGS





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25\ PLAN GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA F

SCALE: 1/8" = 1'-0"

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TONY C. POULOS REGISTERED AR10300148 STATE OF INDIANA ARCHITECT

01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

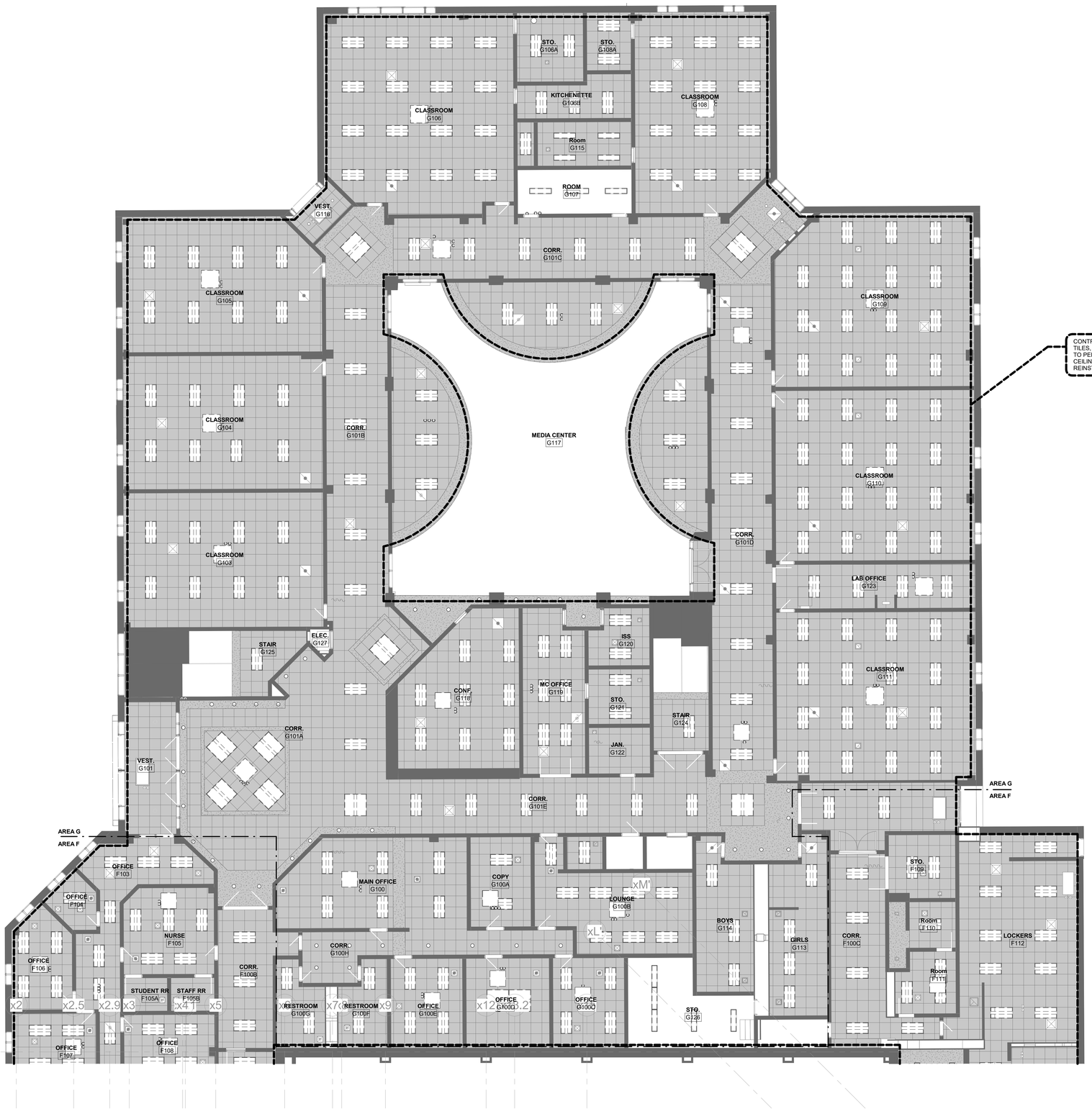
REVISIONS

NO.	DATE	DESCRIPTION

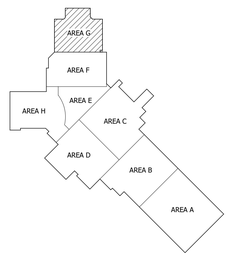
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN PLAN AREA F

AD2.1F



CONTRACTOR TO REMOVE EXISTING LIGHT FIXTURES, CEILING TILES, AND CEILING GRID WITHIN DASHED AREA AS REQUIRED TO PERFORM HVAC WORK. REFER TO MECHANICAL DWGS. CEILING GRID AND LIGHT FIXTURES TO BE SALVAGED AND REINSTALLED. PROVIDE NEW CEILING TILES.



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25\ PLAN GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA G

SCALE: 1/8" = 1'-0"

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NORTH PUTNAM COMMUNITY SCHOOLS

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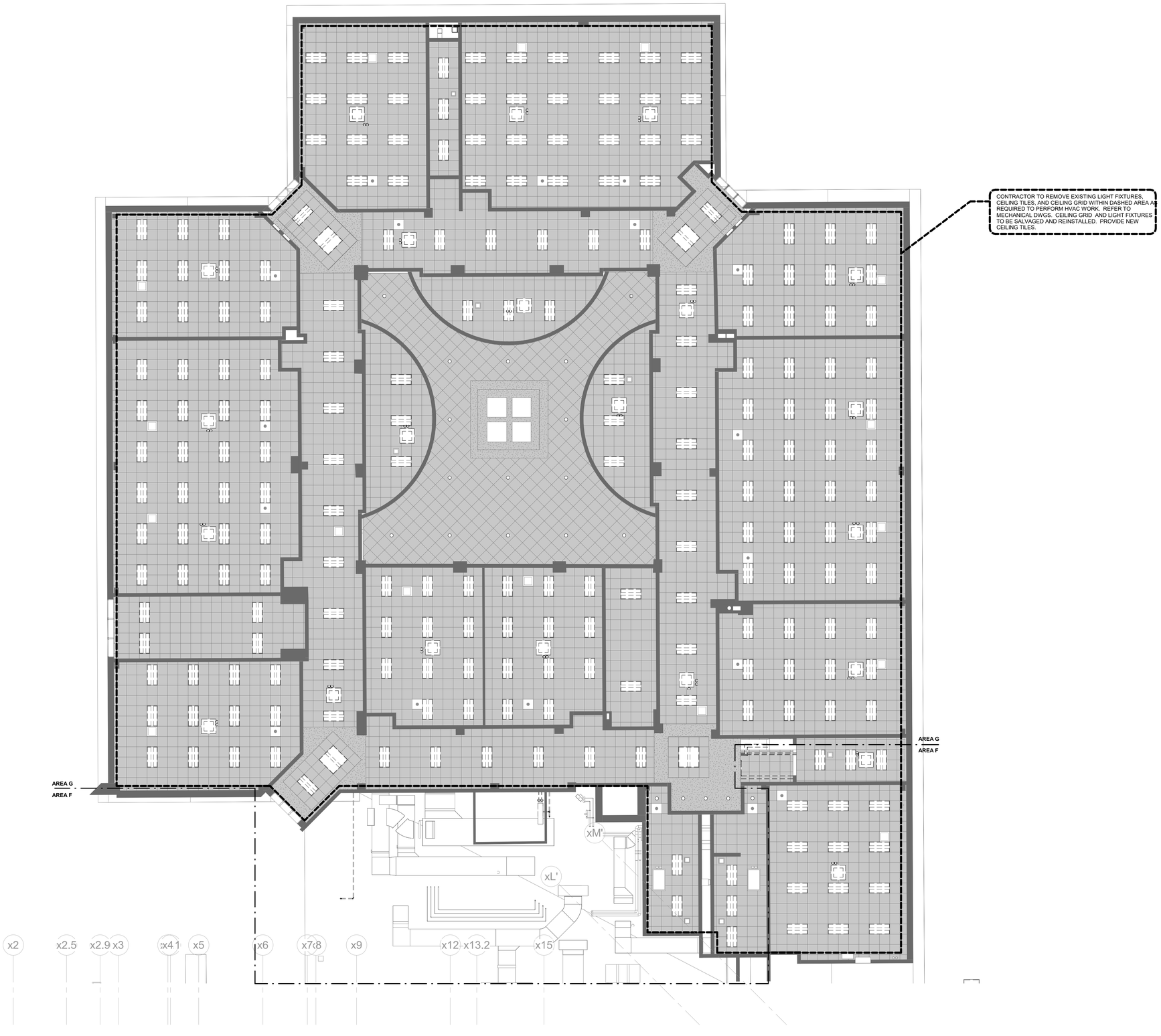
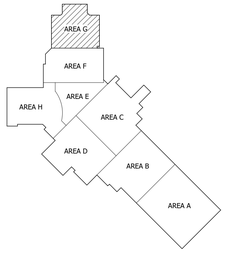
GROUND FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA G

AD2.1G





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25 PLAN UPPER FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA G

SCALE: 1/8" = 1'-0"

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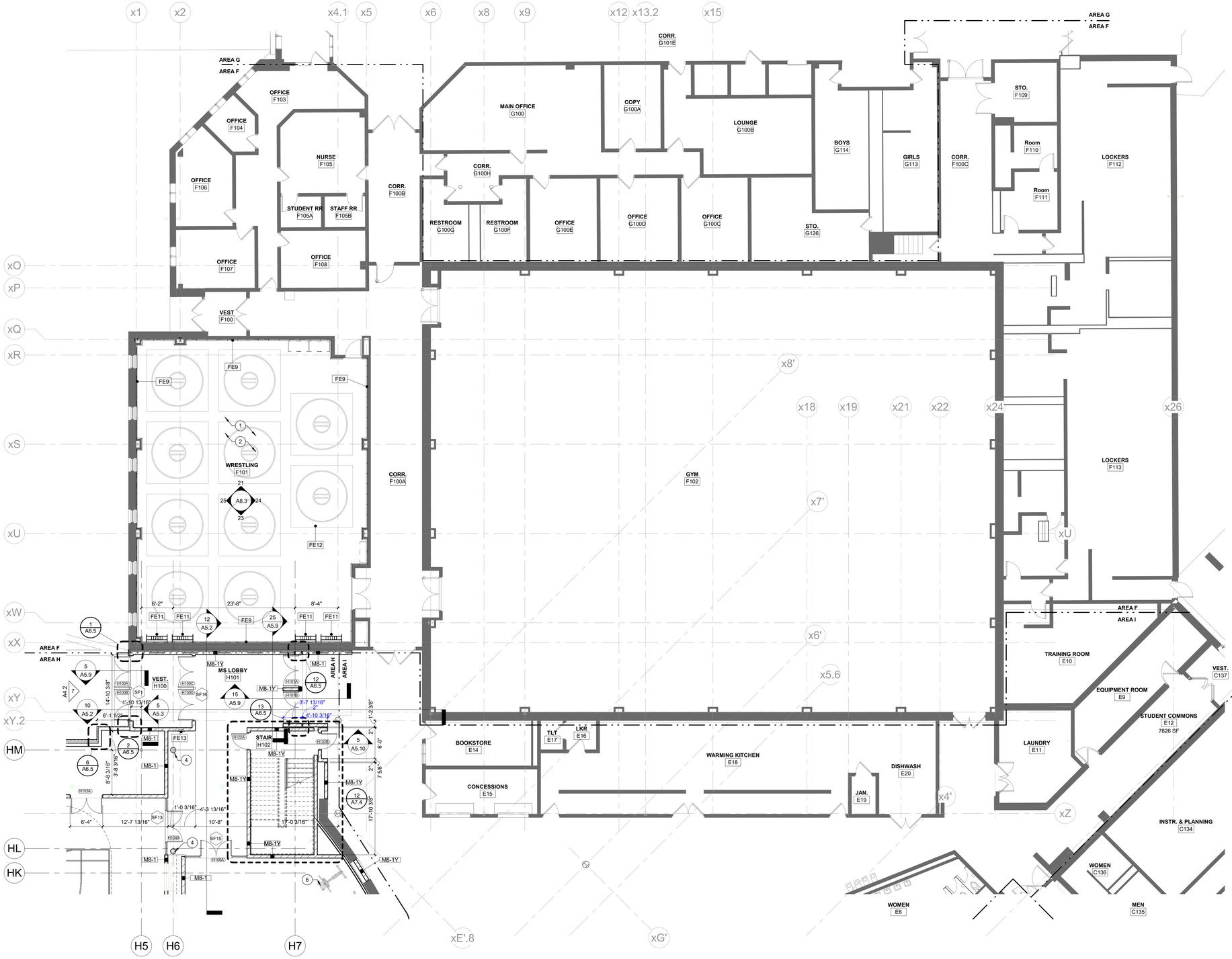
UPPER FLOOR - DEMOLITION REFLECTED CEILING PLAN AREA G

AD2.2G



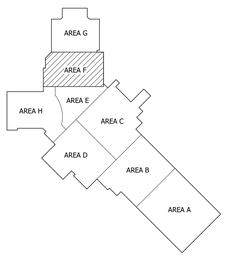
GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION FOR ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS.
3. NO SUBSTITUTIONS FOR ITEMS SPECIFIED WILL BE ACCEPTED WITHOUT PRIOR WRITTEN ACCEPTANCE FROM THE ARCHITECT / DESIGNER AND OWNER.
4. THE CONTRACTOR SHALL PROTECT EXISTING WORK AND OTHER NEW WORK BY OTHER CONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WORK OR WORK BY OTHERS INCURRED WHILE FULFILLING THE OBLIGATIONS OF THE CONTRACT.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL VERIFY ALL NEW AND EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / DESIGNER OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFICTS BEFORE COMMENCEMENT OF WORK. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF ALL NEW OR EXISTING CONDITIONS.
6. WHERE DESIGN INTENT CANNOT BE DETERMINED FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT / DESIGNER PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
7. SUBMITTALS OF ALL FINISH MATERIALS REQUIRED TO ARCHITECT / DESIGNER FOR APPROVAL PRIOR TO ORDERING OR INSTALLING TO INSURE ACCURACY OF SPECIFIED PRODUCT WITH INSTALLED MATERIAL.
8. LEAD TIMES FOR ALL SPECIFIED MATERIALS VARY. PURCHASING CONTRACTOR AND/OR SUPPLIER ASSUMES RESPONSIBILITY FOR VERIFYING LEAD TIME WITH MANUFACTURER AND ORDERING MATERIAL IN ACCORDANCE WITH PROJECT SCHEDULE AND COMPLETION DATE.
9. VERIFY ALL MOUNTING LOCATIONS FOR TOILET ACCESSORIES AND ALL OTHER ACCESSORIES / APPURTENANCES WITH THE OWNER PRIOR TO INSTALLATION.

PLAN KEYNOTES	
#	NOTE
1	PAINT EXISTING WALLS.
2	FLOORING SYSTEM IN THIS ROOM IS BY OWNERS SEPARATE CONTRACTOR/VENDOR. COORDINATE AS NECESSARY.
3	REFER TO SHEETS A10.1 AND A10.2 FOR FLOOR STRIPING LAYOUTS.
4	COLUMN COVER. 12" DIAMETER.
5	NEW MECHANICAL LOUVER IN EXTERIOR WALL. SEE MECHANICAL.
6	FITNESS EQUIPMENT PROVIDED AND INSTALLED BY OWNER.
7	COLUMN COVER. 18" DIAMETER.
8	EQUIPMENT POTENTIALLY DELETED BY ALTERNATE. REFER TO SECTION 012300.

FURNISHED EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	COUNT	PROVIDED BY	INSTALLED BY
FE1	BLEACHERS. TILT-UP. ROLLING. ALUMINUM. 12'-0". 2 SEAT ROWS. (16 SEATS). NAT'L RECREATION SYSTEMS INC. NRS TR-0212STD OR EQUAL.	4	OWNER	OWNER
FE2	CEILING SUSPENDED REAR FOLD REAR BRACED BASKETBALL BACKSTOP.	4	CONTRACTOR	CONTRACTOR
FE3	CEILING SUSPENDED SIDE FOLD BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE4	WALL MOUNTED BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE5	CEILING SUSPENDED 10'x12'x70' BATTING CAGE.	2	CONTRACTOR	CONTRACTOR
FE6	GYM DIVIDER CURTAIN. MOTORIZED, FOLD-UP.	1	CONTRACTOR	CONTRACTOR
FE7	CEILING SUSPENDED FORWARD FOLD FRONT BRACED VOLLEYBALL NET.	1	CONTRACTOR	CONTRACTOR
FE8	VOLLEYBALL NET FLOOR SLEEVE	2	CONTRACTOR	CONTRACTOR
FE9	WALL PAD. 2'x6'x2". TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
FE10	WALL MOUNTED SCOREBOARD	4	CONTRACTOR	CONTRACTOR
FE11	CHINNING BAR. WALL MOUNTED. GILL ATHLETICS WE179.	4	CONTRACTOR	CONTRACTOR
FE12	12'x12' PRACTICE WRESTLING MAT WITH 10' DIAMETER CIRCLE. 1 3/8" THICK.	10	OWNER	OWNER
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7	CONTRACTOR	CONTRACTOR
FE14	CONCRETE BACKLESS BENCH. 96"Lx24"Wx17"H BY BELSON OUTDOORS. MODEL SLB96.	4	CONTRACTOR	CONTRACTOR
FE15	1" THICK RESILIENT FLOORING.	1	OWNER	OWNER
FE16	7MM RESILIENT FLOORING.	1	OWNER	OWNER
FE17	INDOOR TURF	1	OWNER	OWNER



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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

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Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

GROUND FLOOR - PLAN AREA F

A1.1F

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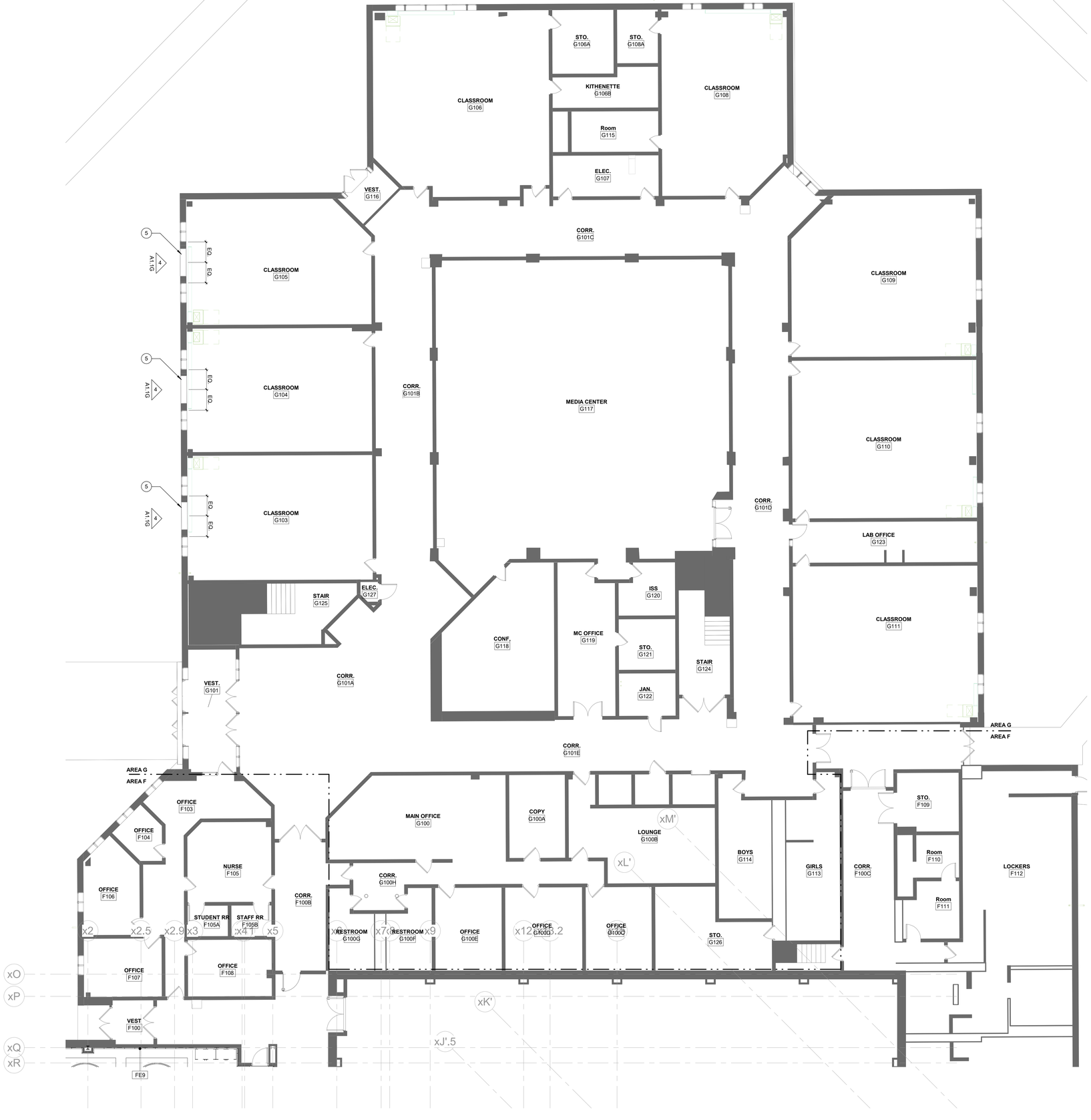
25\ PLAN GROUND FLOOR - PLAN AREA F
SCALE: 1/8" = 1'-0"



25 PLAN GROUND FLOOR - PLAN AREA G

SCALE: 1/8" = 1'-0"

PLAN KEYNOTES	
#	NOTE
1	PAINT EXISTING WALLS.
2	FLOORING SYSTEM IN THIS ROOM IS BY OWNERS SEPARATE CONTRACTOR/VENDOR. COORDINATE AS NECESSARY.
3	REFER TO SHEETS A10.1 AND A10.2 FOR FLOOR STRIPING LAYOUTS.
4	COLUMN COVER. 12" DIAMETER.
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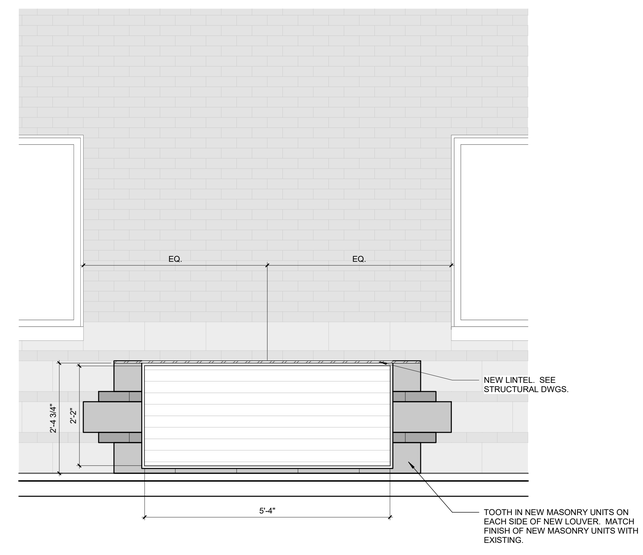
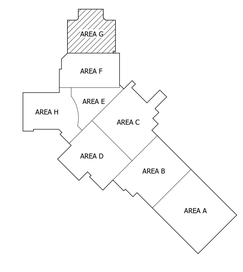
6	FITNESS EQUIPMENT PROVIDED AND INSTALLED BY OWNER.
7	COLUMN COVER. 18" DIAMETER.
8	EQUIPMENT POTENTIALLY DELETED BY ALTERNATE. REFER TO SECTION 012300.



4 ELEVATION LOUVER @ MIDDLE SCHOOL EXTERIOR WALL

SCALE: 3/4" = 1'-0"



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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

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DWR	LTT
CHK	TAS

GROUND FLOOR - PLAN AREA G

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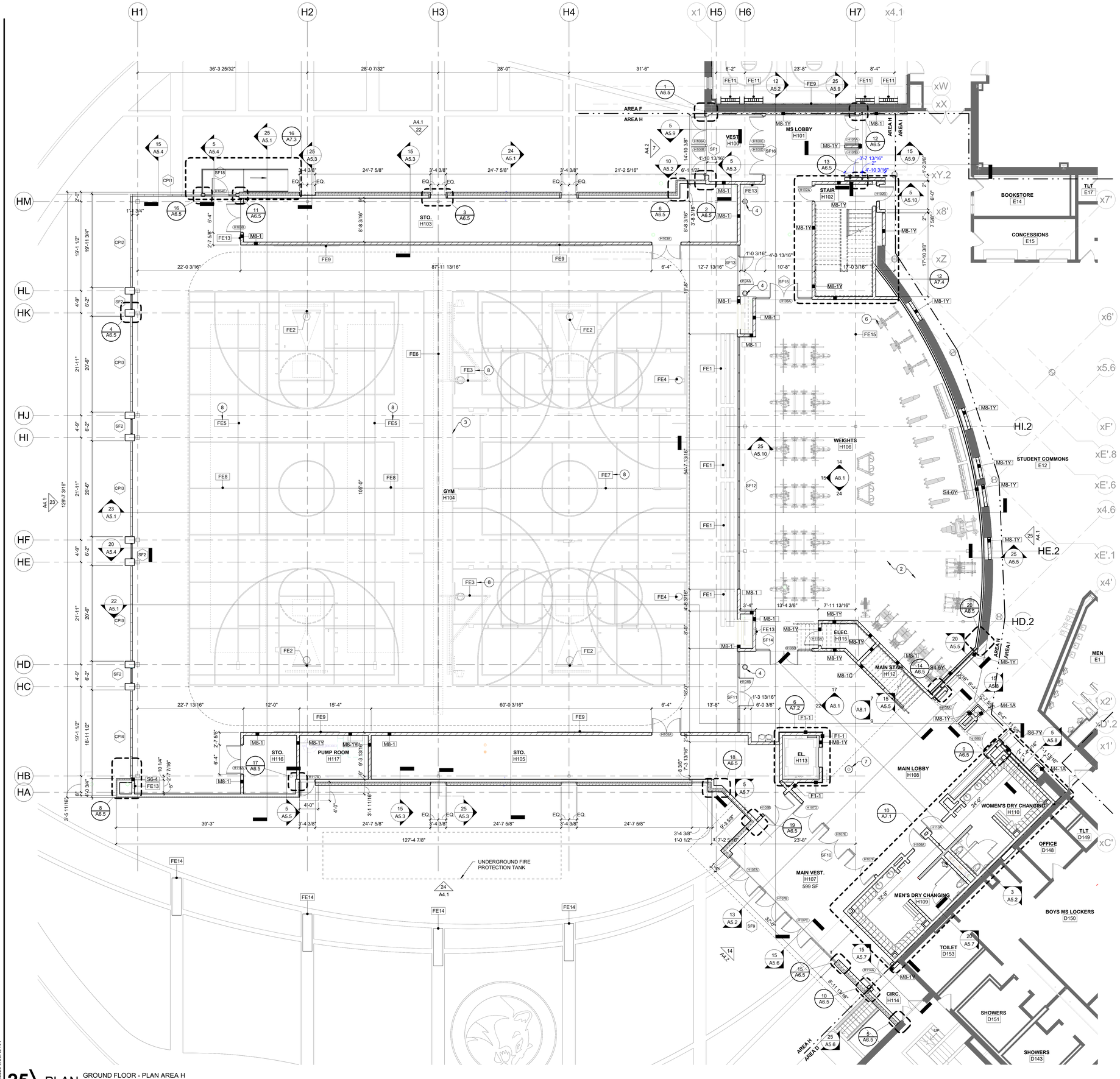

PLAN KEYNOTES	
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1	PAINT EXISTING WALLS.
2	FLOORING SYSTEM IN THIS ROOM IS BY OWNERS SEPARATE CONTRACTOR/VENDOR. COORDINATE AS NECESSARY.
3	REFER TO SHEETS A10.1 AND A10.2 FOR FLOOR STRIPING LAYOUTS.
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FE3	CEILING SUSPENDED SIDE FOLD BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE4	WALL MOUNTED BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE5	CEILING SUSPENDED 10'x12'x70' BATTING CAGE.	2	CONTRACTOR	CONTRACTOR
FE6	GYM DIVIDER CURTAIN. MOTORIZED, FOLD-UP.	1	CONTRACTOR	CONTRACTOR
FE7	CEILING SUSPENDED FORWARD FOLD FRONT BRACED VOLLEYBALL NET.	1	CONTRACTOR	CONTRACTOR
FE8	VOLLEYBALL NET FLOOR SLEEVE	2	CONTRACTOR	CONTRACTOR
FE9	WALL PAD. 2'x6'x2". TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
FE10	WALL MOUNTED SCOREBOARD	4	CONTRACTOR	CONTRACTOR
FE11	CHINNING BAR. WALL MOUNTED. GILL ATHLETICS WE179.	4	CONTRACTOR	CONTRACTOR
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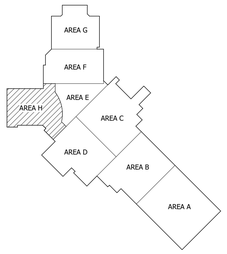
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7	CONTRACTOR	CONTRACTOR
FE14	CONCRETE BACKLESS BENCH. 96"Lx24"Wx17"H BY BELSON OUTDOORS. MODEL SLB96.	4	CONTRACTOR	CONTRACTOR
FE15	1" THICK RESILIENT FLOORING.	1	OWNER	OWNER
FE16	7MM RESILIENT FLOORING.	1	OWNER	OWNER
FE17	INDOOR TURF	1	OWNER	OWNER



25\ PLAN GROUND FLOOR - PLAN AREA H

SCALE: 1/8" = 1'-0"

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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

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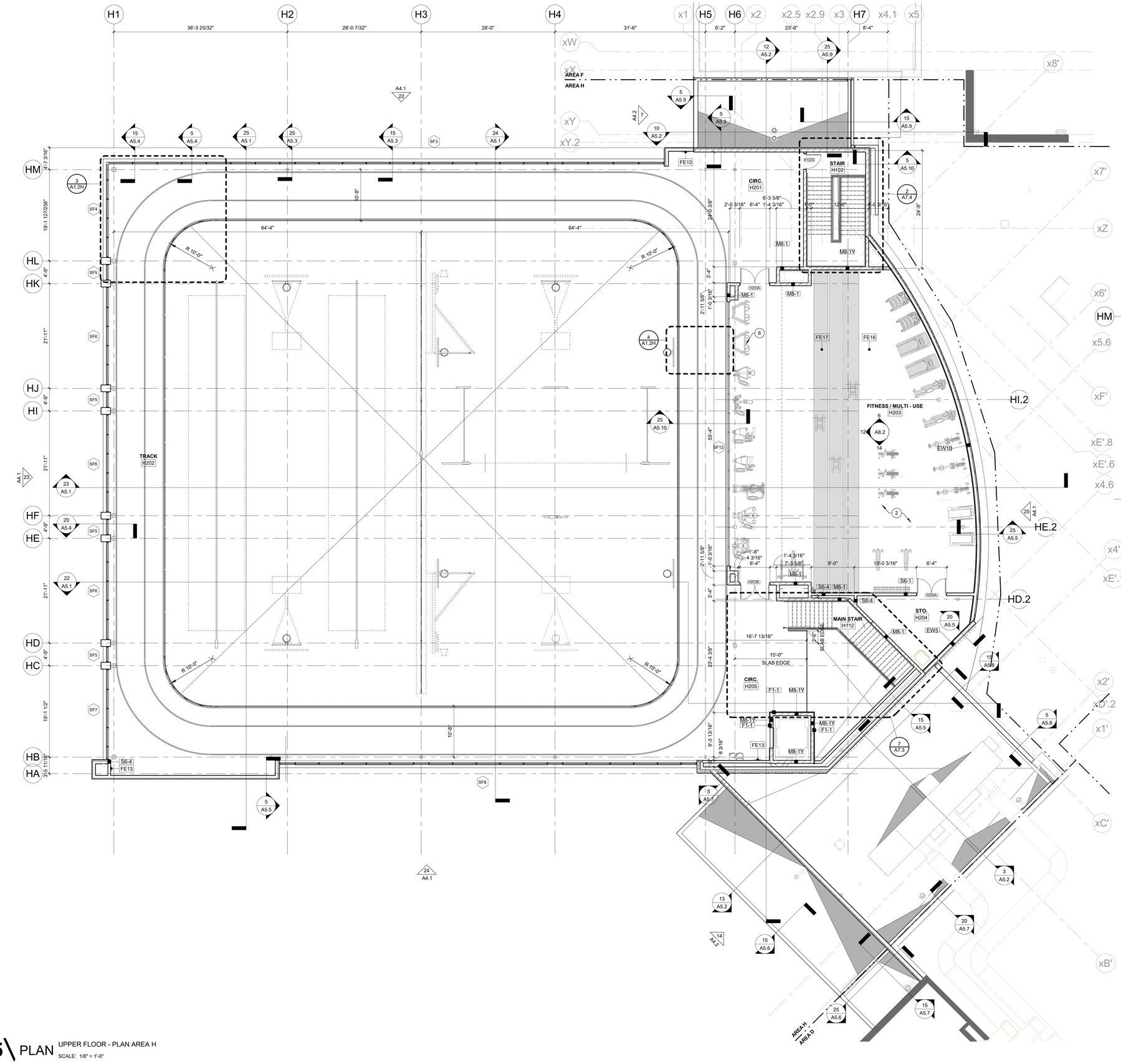
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

GROUND FLOOR - PLAN AREA H

A1.1H



25 \ PLAN UPPER FLOOR - PLAN AREA H
SCALE: 1/8" = 1'-0"

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FE9	WALL PAD. 2'x6'x2", TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
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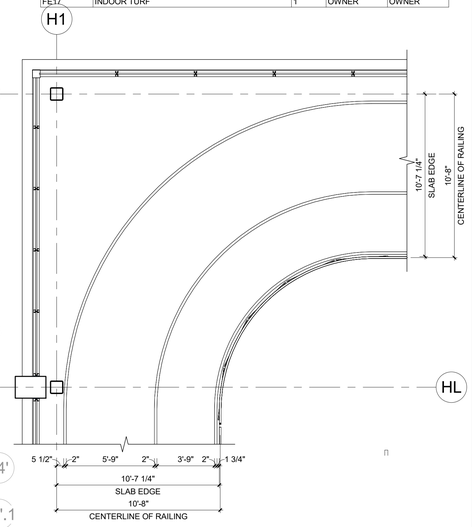
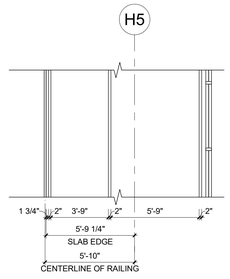
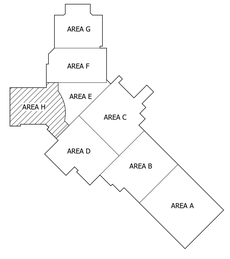


3 \ ENL PLAN ENLARGED TRACK PLAN
SCALE: 1/4" = 1'-0"



4 \ ENL PLAN ENLARGED TRACK PLAN
SCALE: 1/4" = 1'-0"



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UPPER FLOOR - PLAN
AREA H

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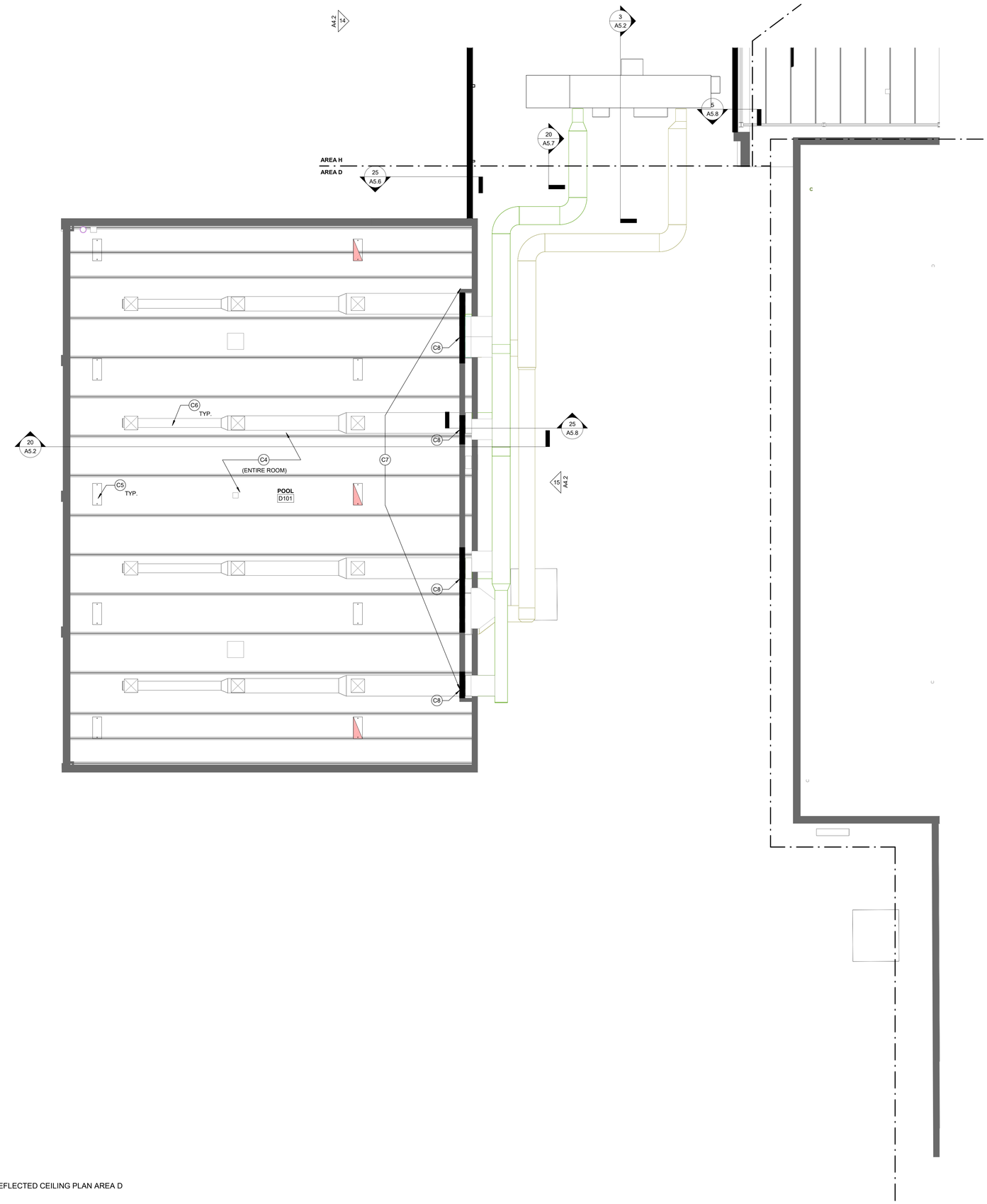

CEILING SCHEDULE

TYPE MARK	DESCRIPTION
ACP-1	PANELS: 24"x24" ACOUSTICAL, TYPE A. COLOR: 1 GRID: 15/16", TYPE A. COLOR: 1
ACP-2	PANELS: 24"x24" ACOUSTICAL, TYPE A. COLOR: 2 GRID: 15/16", TYPE A. COLOR: 2 PROVIDE WITH 4" PERIMETER TRIM
ACP-E1	PANELS: SALVAGED AND REINSTALLED GRID: SALVAGED AND REINSTALLED
ACP-E2	PANELS: 24"x24" ACOUSTICAL, TYPE A. COLOR: 1 GRID: SALVAGED AND REINSTALLED
ACP-E3	PANELS: 24"x24" ACOUSTICAL, TYPE B. COLOR: 1 GRID: SALVAGED AND REINSTALLED
GWB-1	5/8" GYPSUM BOARD ON MINIMUM 3 5/8" METAL STUDS
GWB-2	5/8" MOISTURE-RESISTANT GYPSUM BOARD ON MINIMUM 3 5/8" METAL STUDS
MC-1	METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.

REFLECTED CEILING PLAN KEYNOTES	
#	NOTE
C1	EXPOSED STRUCTURE AND DUCTWORK. CLEAN AND PAINT ALL EXPOSED SURFACES AND MATERIALS.
C1	EXPOSED STRUCTURE AND DUCTWORK. PAINT ALL EXPOSED SURFACES AND MATERIALS.
C2	OPEN TO ABOVE.
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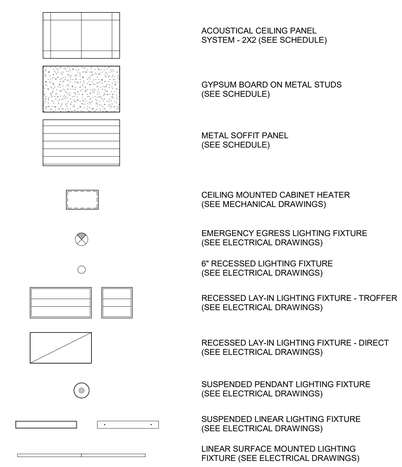
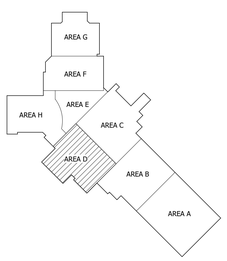
C5	NEW LIGHT FIXTURES. REFER TO ELECTRICAL.
C6	EXISTING DUCTWORK TO REMAIN. PROVIDE HIGH PERFORMANCE COATING.
C7	PROVIDE HIGH PERFORMANCE COATING ON ENTIRE WALL.
C8	TOOTH IN NEW CMU UNITS.
C9	INSTALL 1-HR RATED APPLIED FIREPROOFING AT NEW STRUCTURAL STEEL SUPPORTING EXISTING ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
C10	INSTALL 1-HR RATED APPLIED FIREPROOFING AT REINFORCED JOISTS. REFER TO STRUCTURAL DRAWINGS.

NOTE: AN ASSESSMENT OF THE PLENUM SPACE ABOVE THE EXISTING CEILING WITHIN THE NATATORIUM WAS PERFORMED BY OTHERS AND THE REPORT IS INCLUDED WITHIN THE PROJECT MANUAL FOR REFERENCE. REFER TO SECTION 003119 "EXISTING CONDITIONS INFORMATION".



REFLECTED CEILING PLAN LEGEND



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TONY C. POULOS
REGISTERED
AR10300148
STATE OF
INDIANA
ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

GROUND FLOOR - REFLECTED CEILING PLAN AREA D

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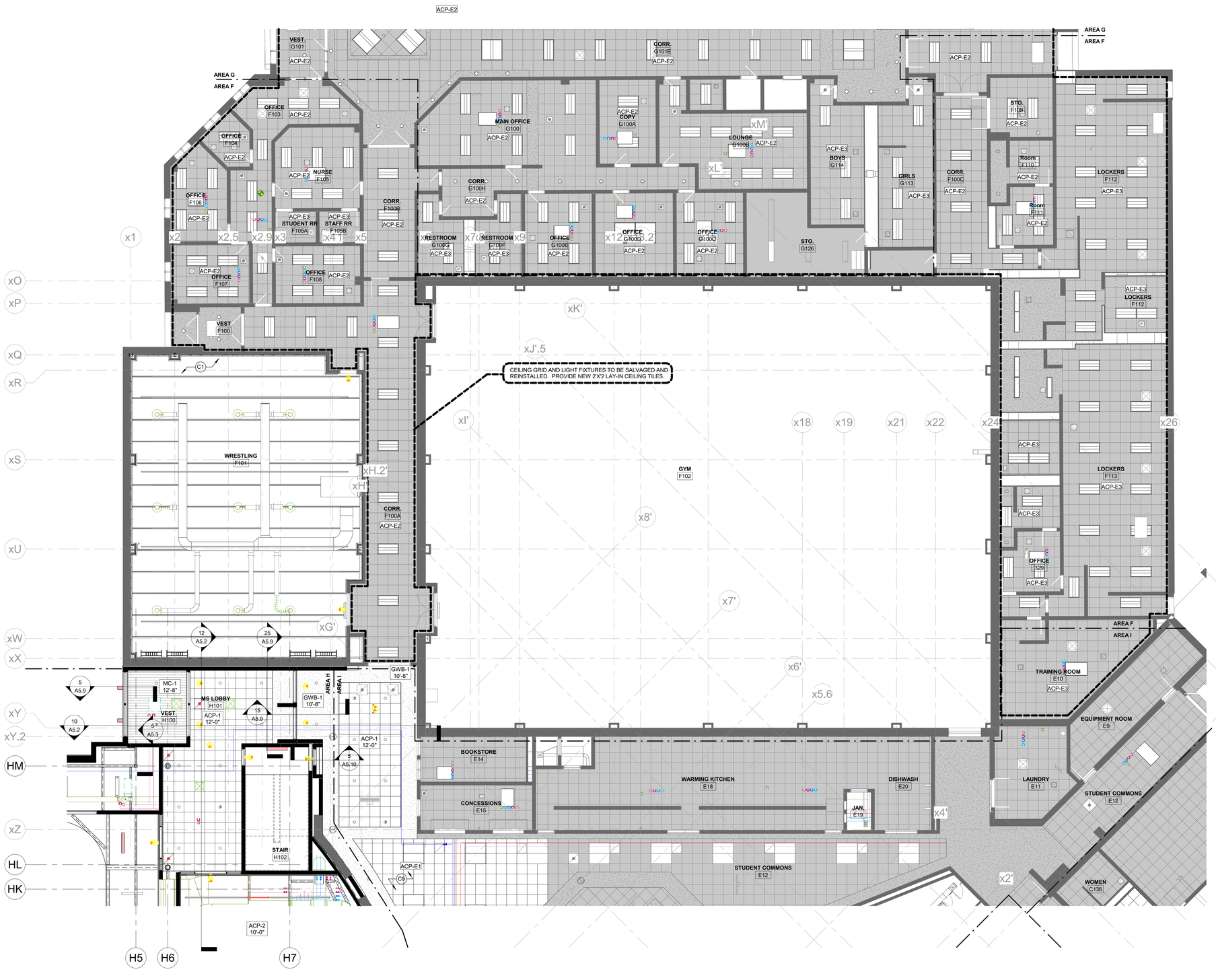
25 PLAN UPPER FLOOR - REFLECTED CEILING PLAN AREA D
SCALE: 1/8" = 1'-0"



CEILING SCHEDULE

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GWB-2	5/8" MOISTURE-RESISTANT GYPSUM BOARD ON MINIMUM 3 5/8" METAL STUDS
MC-1	METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.

REFLECTED CEILING PLAN KEYNOTES

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ACOUSTICAL CEILING PANEL SYSTEM - 2X2 (SEE SCHEDULE)

GYPSUM BOARD ON METAL STUDS (SEE SCHEDULE)

METAL SOFFIT PANEL (SEE SCHEDULE)

CEILING MOUNTED CABINET HEATER (SEE MECHANICAL DRAWINGS)

EMERGENCY EGRESS LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

6" RECESSED LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

RECESSED LAY-IN LIGHTING FIXTURE - TROFFER (SEE ELECTRICAL DRAWINGS)

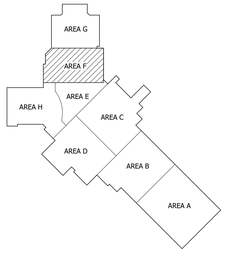
RECESSED LAY-IN LIGHTING FIXTURE - DIRECT (SEE ELECTRICAL DRAWINGS)

SUSPENDED PENDANT LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

SUSPENDED LINEAR LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

LINEAR SURFACE MOUNTED LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

REFLECTED CEILING PLAN LEGEND



25 PLAN GROUND FLOOR - REFLECTED CEILING PLAN AREA F

SCALE: 1/8" = 1'-0"

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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

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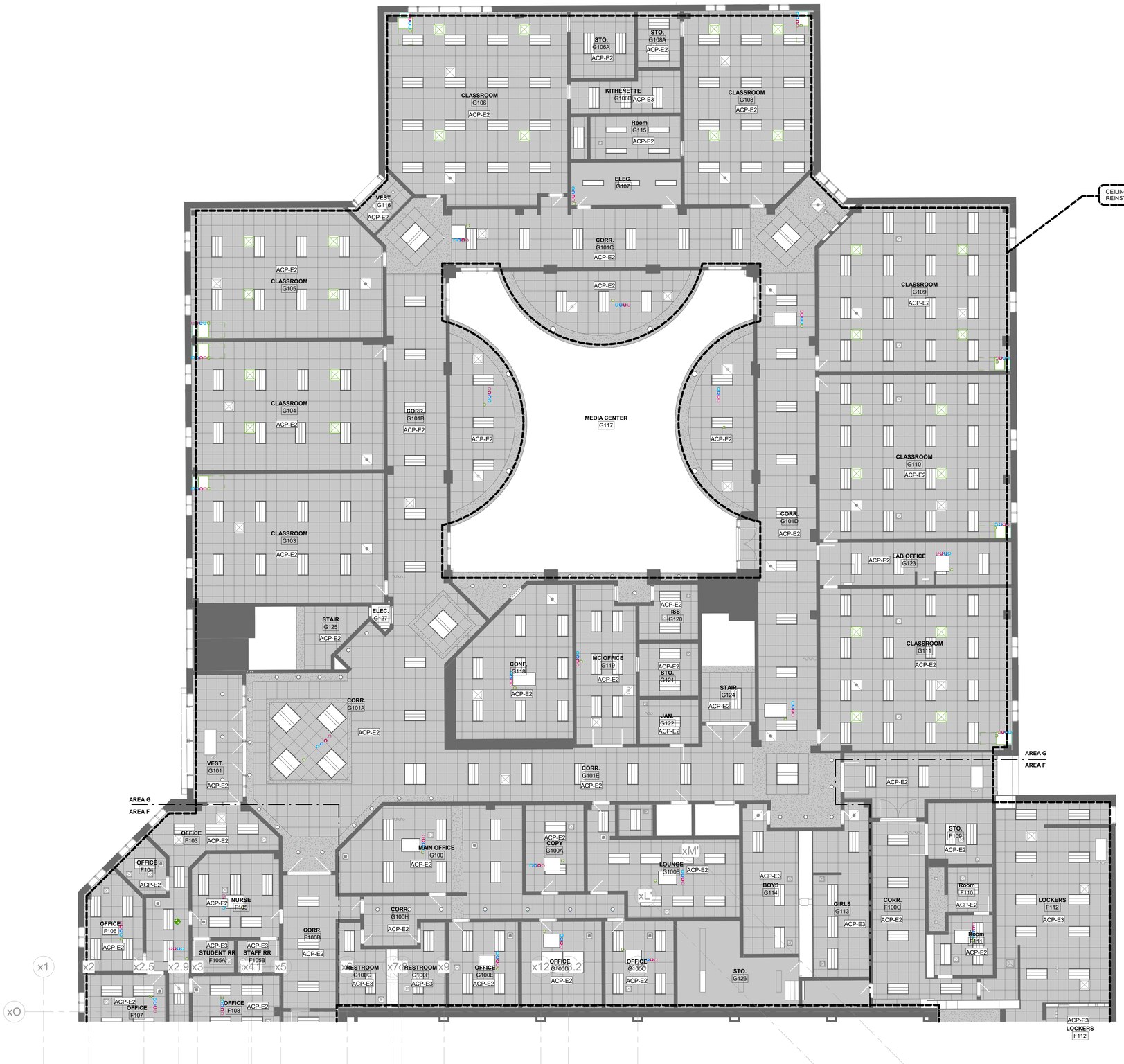
CHK	TAS

GROUND FLOOR - REFLECTED CEILING PLAN AREA F

A2.1F



CEILING GRID AND LIGHT FIXTURES TO BE SALVAGED AND REINSTALLED. PROVIDE NEW 2'X'2 LAY-IN CEILING TILES.

CEILING SCHEDULE

TYPE MARK	DESCRIPTION
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MC-1	METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.

REFLECTED CEILING PLAN KEYNOTES

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ACOUSTICAL CEILING PANEL SYSTEM - 2X2 (SEE SCHEDULE)

GYPSUM BOARD ON METAL STUDS (SEE SCHEDULE)

METAL SOFFIT PANEL (SEE SCHEDULE)

CEILING MOUNTED CABINET HEATER (SEE MECHANICAL DRAWINGS)

EMERGENCY EGRESS LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

6" RECESSED LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

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SUSPENDED LINEAR LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

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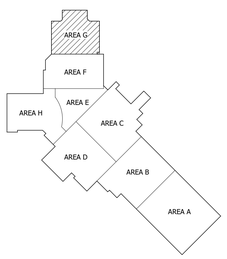
REFLECTED CEILING PLAN LEGEND



25 PLAN REFLECTED CEILING PLAN AREA G
SCALE: 1/8" = 1'-0"

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01.31.2025

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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
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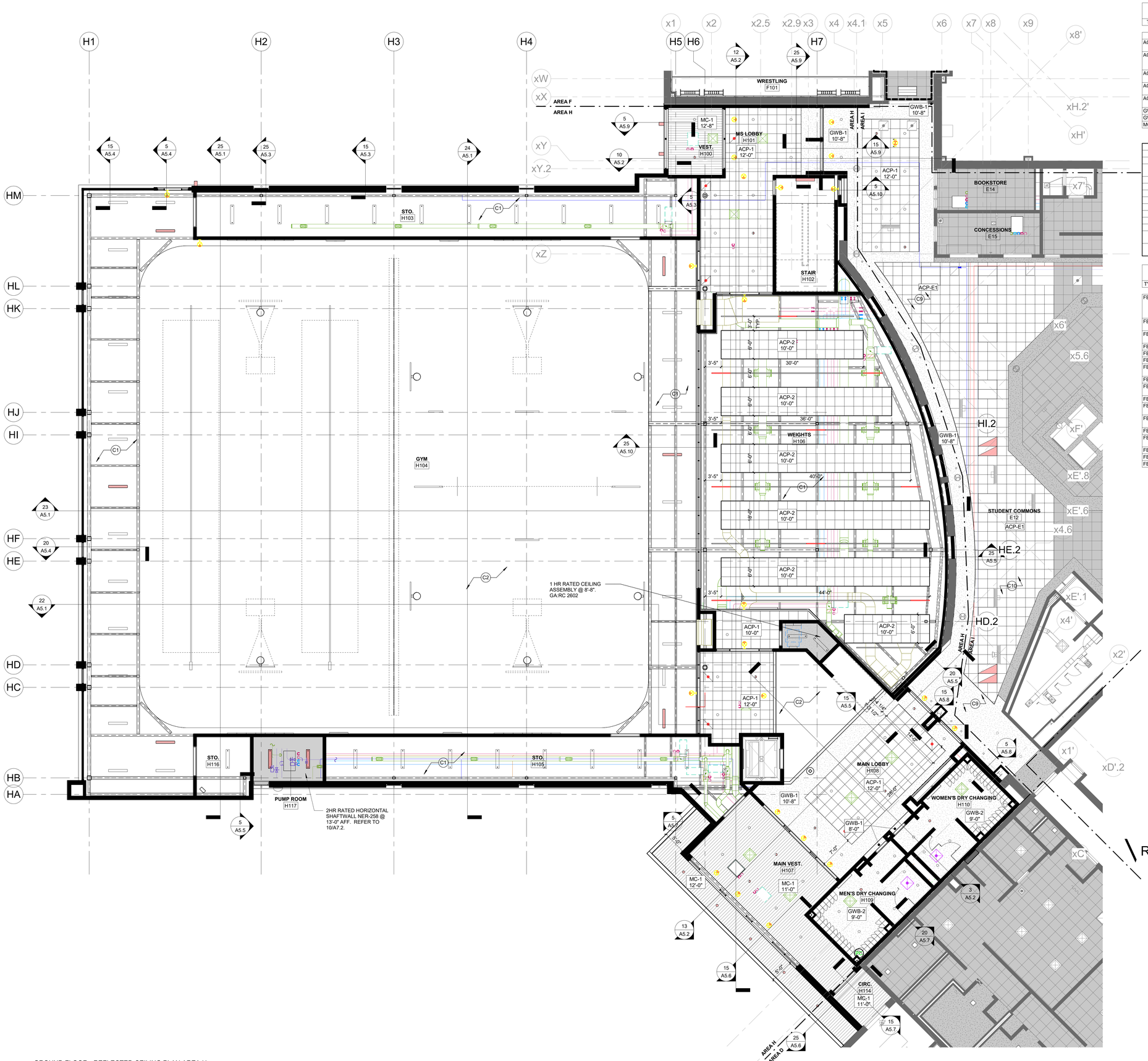
CHK	TAS

GROUND FLOOR - REFLECTED CEILING PLAN AREA G

A2.1G



CEILING SCHEDULE

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REFLECTED CEILING PLAN KEYNOTES

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C7	PROVIDE HIGH PERFORMANCE COATING ON ENTIRE WALL.
C8	TOOTH IN NEW CMU UNITS.
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C10	INSTALL 1-HR RATED APPLIED FIREPROOFING AT REINFORCED JOISTS. REFER TO STRUCTURAL DRAWINGS.

FURNISHED EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	COUNT	PROVIDED BY	INSTALLED BY
FE1	BLEACHERS. TILT-UP. ROLLING. ALUMINUM. 12'-0". 2 SEAT ROWS. (16 SEATS). NATL RECREATION SYSTEMS INC. NRS TR-0212STD OR EQUAL.	4	OWNER	OWNER
FE2	CEILING SUSPENDED REAR FOLD REAR BRACED BASKETBALL BACKSTOP.	4	CONTRACTOR	CONTRACTOR
FE3	CEILING SUSPENDED SIDE FOLD BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE4	WALL MOUNTED BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE5	CEILING SUSPENDED 10'x12'x70' BATTING CAGE.	2	CONTRACTOR	CONTRACTOR
FE6	GYM DIVIDER CURTAIN. MOTORIZED, FOLD-UP.	1	CONTRACTOR	CONTRACTOR
FE7	CEILING SUSPENDED FORWARD FOLD FRONT BRACED VOLLEYBALL NET.	1	CONTRACTOR	CONTRACTOR
FE8	VOLLEYBALL NET FLOOR SLEEVE	2	CONTRACTOR	CONTRACTOR
FE9	WALL PAD. 2'x6'x2". TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
FE10	WALL MOUNTED SCOREBOARD	4	CONTRACTOR	CONTRACTOR
FE11	CHINNING BAR. WALL MOUNTED. GILL ATHLETICS WE179.	4	CONTRACTOR	CONTRACTOR
FE12	12'x12' PRACTICE WRESTLING MAT WITH 10' DIAMETER CIRCLE. 1 3/8" THICK.	10	OWNER	OWNER
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7	CONTRACTOR	CONTRACTOR
FE14	CONCRETE BACKLESS BENCH. 96"Lx24"Wx17"H BY BELSON OUTDOORS. MODEL SLB96.	4	CONTRACTOR	CONTRACTOR
FE15	1" THICK RESILIENT FLOORING.	1	OWNER	OWNER
FE16	7MM RESILIENT FLOORING.	1	OWNER	OWNER
FE17	INDOOR TURF	1	OWNER	OWNER

REFLECTED CEILING PLAN LEGEND

- ACOUSTICAL CEILING PANEL SYSTEM - 2X2 (SEE SCHEDULE)
- GYPSUM BOARD ON METAL STUDS (SEE SCHEDULE)
- METAL SOFFIT PANEL (SEE SCHEDULE)
- CEILING MOUNTED CABINET HEATER (SEE MECHANICAL DRAWINGS)
- EMERGENCY EGRESS LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)
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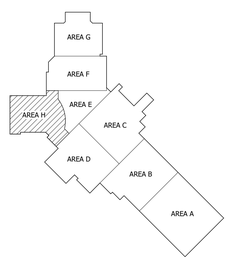

25 PLAN GROUND FLOOR - REFLECTED CEILING PLAN AREA H

SCALE: 1/8" = 1'-0"

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GROUND FLOOR - REFLECTED CEILING PLAN AREA H

A2.1H

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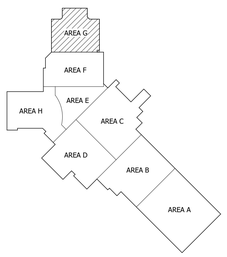

25 PLAN UPPER FLOOR - REFLECTED CEILING PLAN AREA G

SCALE: 1/8" = 1'-0"

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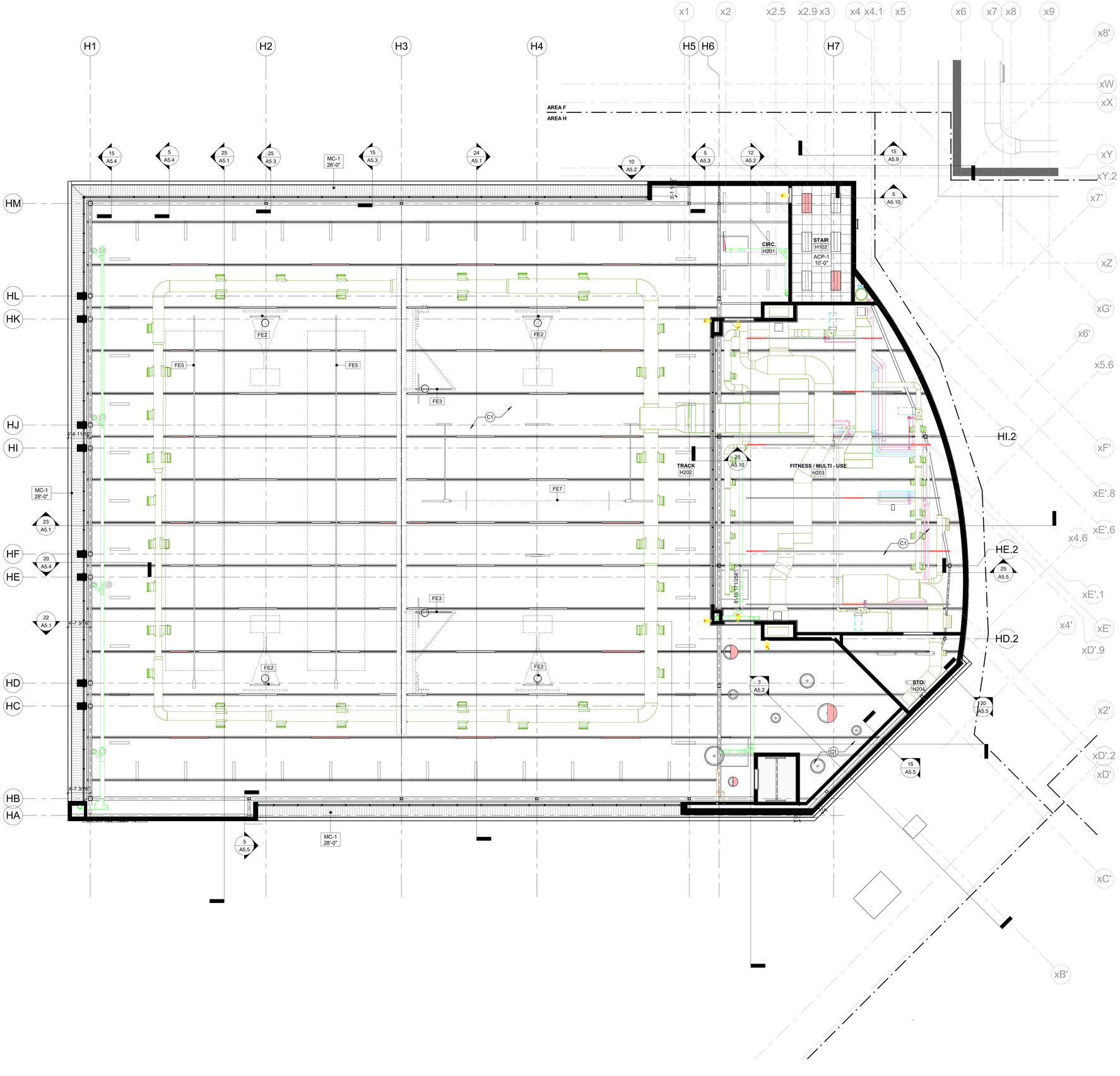
A2.2G



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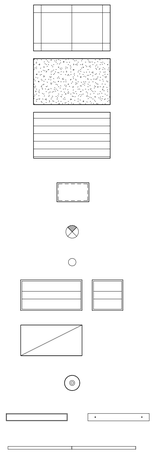
GWB-1	5/8" GYPSUM BOARD ON MINIMUM 3 5/8" METAL STUDS
GWB-2	5/8" MOISTURE-RESISTANT GYPSUM BOARD ON MINIMUM 3 5/8" METAL STUDS
MC-1	METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.

REFLECTED CEILING PLAN KEYNOTES

#	NOTE
C1	EXPOSED STRUCTURE AND DUCTWORK. CLEAN AND PAINT ALL EXPOSED SURFACES AND MATERIALS.
C1	EXPOSED STRUCTURE AND DUCTWORK. PAINT ALL EXPOSED SURFACES AND MATERIALS.
C2	OPEN TO ABOVE.
C3	NOT USED.
C4	EXISTING STRUCTURE. PROVIDE HIGH PERFORMANCE COATING ON JOISTS AND DECK.
C5	NEW LIGHT FIXTURES. REFER TO ELECTRICAL.
C6	EXISTING DUCTWORK TO REMAIN. PROVIDE HIGH PERFORMANCE COATING.
C7	PROVIDE HIGH PERFORMANCE COATING ON ENTIRE WALL.
C8	TOOTH IN NEW CMU UNITS.
C9	INSTALL 1-HR RATED APPLIED FIREPROOFING AT NEW STRUCTURAL STEEL SUPPORTING EXISTING ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
C10	INSTALL 1-HR RATED APPLIED FIREPROOFING AT REINFORCED JOISTS. REFER TO STRUCTURAL DRAWINGS.

FURNISHED EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	COUNT	PROVIDED BY	INSTALLED BY
FE1	BLEACHERS, TILT-UP. ROLLING. ALUMINUM. 12'-0". 2 SEAT ROWS. (16 SEATS). NAT'L RECREATION SYSTEMS INC. NRS TR-0212STD OR EQUAL.	4	OWNER	OWNER
FE2	CEILING SUSPENDED REAR FOLD REAR BRACED BASKETBALL BACKSTOP.	4	CONTRACTOR	CONTRACTOR
FE3	CEILING SUSPENDED SIDE FOLD BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE4	WALL MOUNTED BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE5	CEILING SUSPENDED 10'x12'x70' BATTING CAGE.	2	CONTRACTOR	CONTRACTOR
FE6	GYM DIVIDER CURTAIN. MOTORIZED, FOLD-UP.	1	CONTRACTOR	CONTRACTOR
FE7	CEILING SUSPENDED FORWARD FOLD FRONT BRACED VOLLEYBALL NET.	1	CONTRACTOR	CONTRACTOR
FE8	VOLLEYBALL NET FLOOR SLEEVE	2	CONTRACTOR	CONTRACTOR
FE9	WALL PAD. 2'x6'x2". TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
FE10	WALL MOUNTED SCOREBOARD	4	CONTRACTOR	CONTRACTOR
FE11	CHINNING BAR. WALL MOUNTED. GILL ATHLETICS WE179.	4	CONTRACTOR	CONTRACTOR
FE12	12'x12' PRACTICE WRESTLING MAT WITH 10' DIAMETER CIRCLE. 1 3/8" THICK.	10	OWNER	OWNER
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7	CONTRACTOR	CONTRACTOR
FE14	CONCRETE BACKLESS BENCH. 96"Lx24"Wx17"H BY BELSON OUTDOORS. MODEL SLB96.	4	CONTRACTOR	CONTRACTOR
FE15	1" THICK RESILIENT FLOORING.	1	OWNER	OWNER
FE16	7MM RESILIENT FLOORING.	1	OWNER	OWNER
FE17	INDOOR TURF	1	OWNER	OWNER



ACOUSTICAL CEILING PANEL SYSTEM - 2X2 (SEE SCHEDULE)

GYPSUM BOARD ON METAL STUDS (SEE SCHEDULE)

METAL SOFFIT PANEL (SEE SCHEDULE)

CEILING MOUNTED CABINET HEATER (SEE MECHANICAL DRAWINGS)

EMERGENCY EGRESS LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

6" RECESSED LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

RECESSED LAY-IN LIGHTING FIXTURE - TROFFER (SEE ELECTRICAL DRAWINGS)

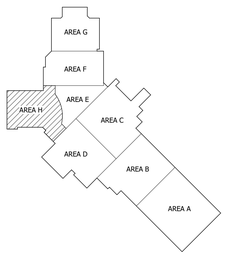
RECESSED LAY-IN LIGHTING FIXTURE - DIRECT (SEE ELECTRICAL DRAWINGS)

SUSPENDED PENDANT LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

SUSPENDED LINEAR LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

LINEAR SURFACE MOUNTED LIGHTING FIXTURE (SEE ELECTRICAL DRAWINGS)

REFLECTED CEILING PLAN LEGEND



25 PLAN UPPER FLOOR - REFLECTED CEILNG PLAN AREA H

SCALE: 1/8" = 1'-0"

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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

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WA No.	2024-006
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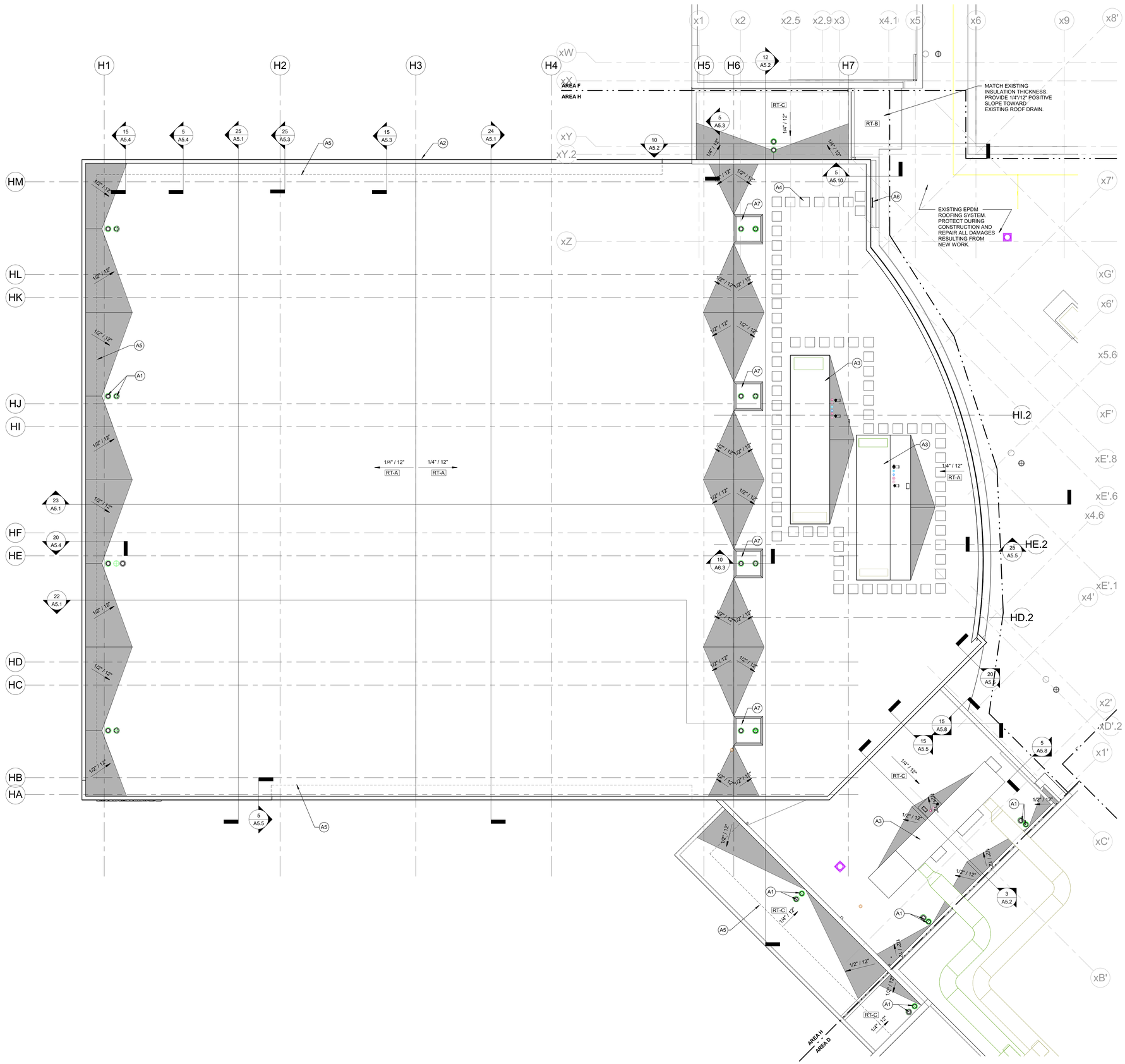
UPPER FLOOR - REFLECTED CEILING PLAN AREA H

A2.2H



25 \ PLAN ROOF PLAN - AREA H

SCALE: 1/8" = 1'-0"

GENERAL ROOF PLAN NOTES:

A. STRUCTURE TO BE SLOPED TO ACHIEVE POSITIVE DRAINAGE WITH A MINIMUM RESULTANT SLOPE OF 1/4" PER FOOT, UNLESS INDICATED OTHERWISE.

B. TAPERED INSULATION SHALL BE INSTALLED TO ACHIEVE POSITIVE DRAINAGE AT CRICKETS AND SADDLES WITH A MINIMUM RESULTANT SLOPE OF 1/2" PER FOOT, UNLESS INDICATED OTHERWISE.

C. LOW SLOPE ROOF AREAS SHALL HAVE A MINIMUM OF 6" RIGID INSULATION OVER ROOF DECK. SADDLES, CRICKETS, AND SLOPE PORTIONS OF FLAT ROOF DECK SHALL BE FORMED BY TAPERED INSULATION. AREAS WHERE TAPERED INSULATION IS ANTICIPATED HAVE BEEN INDICATED, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE SLOPED SURFACES TO ACHIEVE PROPER DRAINAGE.

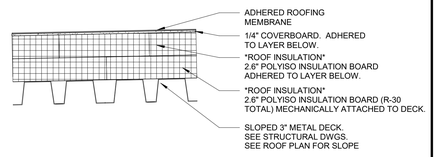
D. ROOF PENETRATIONS AND EQUIPMENT SHOWN SHALL NOT BE CONSIDERED ALL INCLUSIVE. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS TO CONFIRM PENETRATIONS AND EQUIPMENT LOCATIONS. FLASH ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS. PROVIDE CRICKETS TO ALLOW FOR PROPER DRAINAGE AROUND UNITS.

E. ROOF WALKWAY PADS OR BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATION WHERE INDICATED AND AROUND ENTIRE PERIMETER OF ROOFTOP EQUIPMENT.

F. ALL ROOF SYSTEMS ARE "RT- A" EXCEPT WHERE NOTED OTHERWISE.

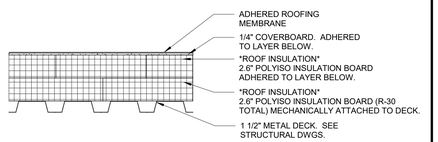
G. COPINGS AND RELATED ITEMS ARE SHOWN ON DRAWINGS AS PRE-MANUFACTURED PER SPECIFICATION SECTION 077100. AT CONTRACTORS OPTION, SHOP FABRICATED COPINGS ARE ALSO ACCEPTABLE SUBJECT TO COMPLIANCE WITH SPECIFICATION SECTION 076200 AND WITH ADJUSTMENTS TO WOOD BLOCKING AS REQUIRED.

ROOF PLAN KEYNOTES	
#	NOTE
A1	ROOF DRAIN AND OVERFLOW DRAIN.
A2	PREFINISHED MANUFACTURED METAL COPING. REFER TO WALL SECTIONS AND WALL SECTION DETAILS.
A3	MECHANICAL EQUIPMENT, FLASH, SEAL, AND CRICKET TO ACHIEVE PROPER DRAINAGE. CRICKET TO BE 1/2" / 12" TO SLOPE. PROVIDE 2 LAYERS OF ROOF MEMBRANE AT UNIT ACCESS POINTS (3'X6' WORK AREA). REFER TO RTU CURB DETAIL 14/A6.3. COORDINATE LOCATION WITH MECHANICAL.
A4	MANUFACTURED FLEXIBLE WALKWAY PADS PROVIDED BY ROOF MEMBRANE MANUFACTURER.
A5	LINE OF WALL BELOW.
A6	ROOF ACCESS LADDER. REFER TO 9/A6.3.
A7	ROOF DRAIN SUMP. REFER TO 10/A6.3.



2 \ DETAIL ROOF TYPE - RT-A

SCALE: 1 1/2" = 1'-0"



3 \ DETAIL ROOF TYPE - RT-B

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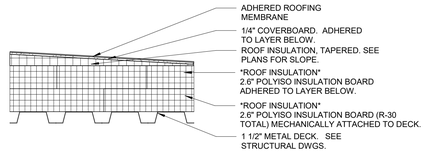
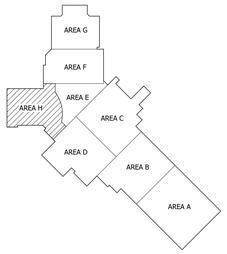


4 \ ROOF TYPE - RT-C



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ROOF PLAN - AREA H

A3.1H

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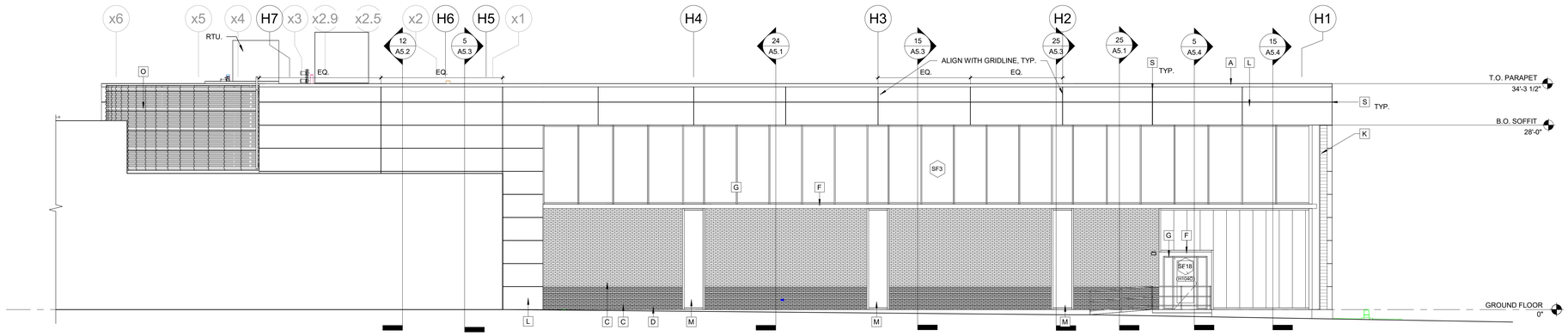
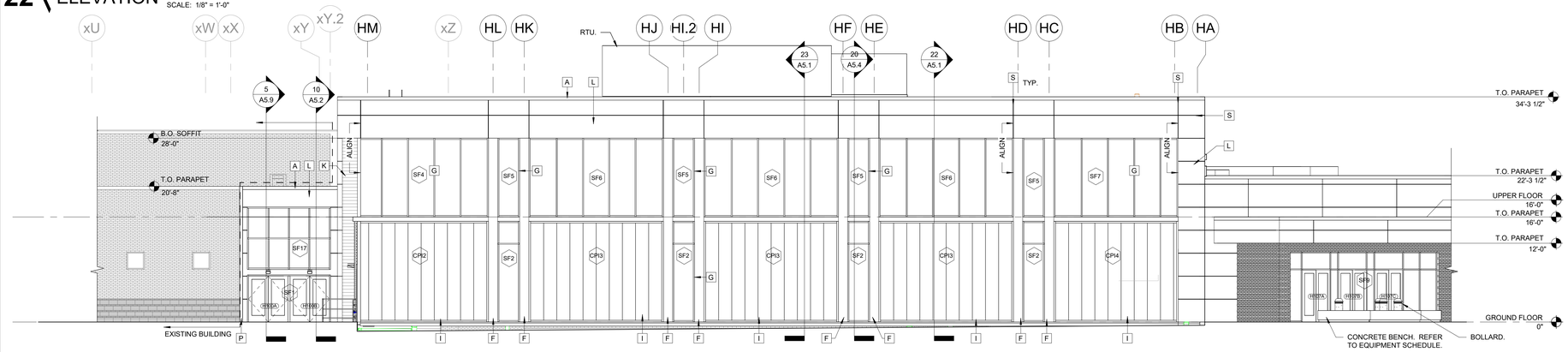


22\ ELEVATION

NORTH ELEVATION - FIELDHOUSE

SCALE: 1/8" = 1'-0"



23\ ELEVATION

WEST ELEVATION - FIELDHOUSE

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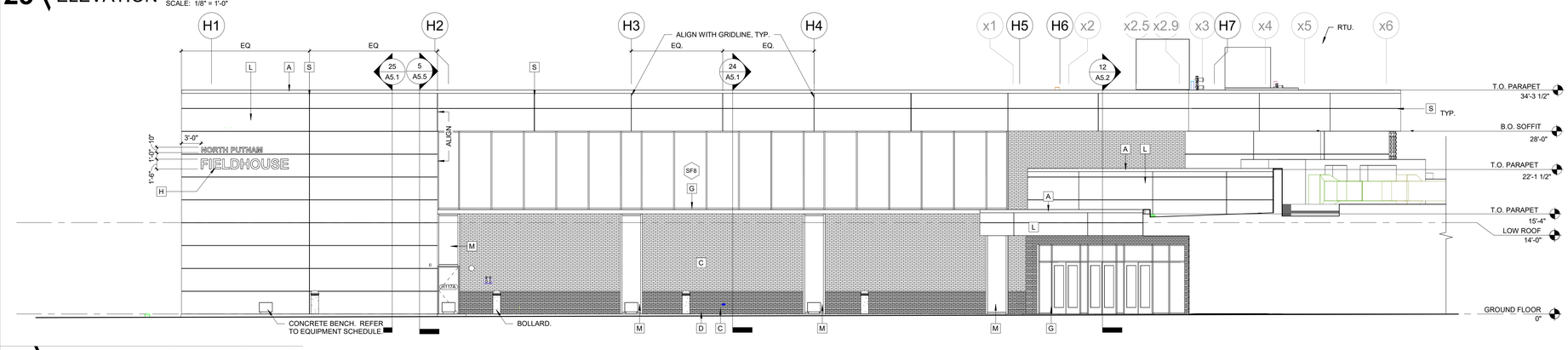
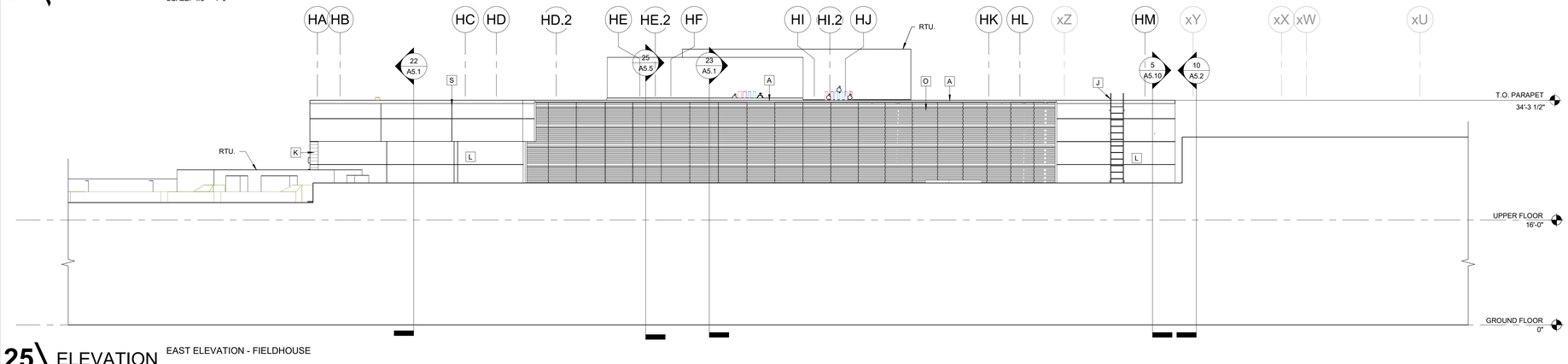


24\ ELEVATION

SOUTH ELEVATION - FIELDHOUSE

SCALE: 1/8" = 1'-0"



25\ ELEVATION

EAST ELEVATION - FIELDHOUSE

SCALE: 1/8" = 1'-0"

EXTERIOR KEYNOTES

#	NOTE
A	COPING. ALUM. PREFIN. 6". COLOR 1.
B	EXPANSION JOINT. 2".
C	FACE BRICK. COLOR 1.
D	FACE BRICK. COLOR 2.
F	BRAKE METAL.
G	STOREFRONT. ALUM. PREFINISHED.
H	DIMENSIONAL LETTER SIGNAGE.
I	TRANSLUCENT WALL SYSTEM (KINGSPAN UNIQUAD).
J	ROOF ACCESS LADDER. REFER TO 8/A6.3.
K	MC-1: METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.
L	MP-1: STEEL-FACED INSULATED METAL PANELS (R8.0/INCH). MICRO-RIB. HORIZONTAL. REFER TO SECTION 074213.
M	MP-2: STEEL-FACED INSULATED METAL PANELS (R8.0/INCH). SMOOTH. VERTICAL. REFER TO SECTION 074213.
O	MP-3: FORMED METAL PANELS. REFER TO SECTION 074213.13.
P	METAL EXPANSION JOINT COVER.
Q	FACE BRICK. SOLDIER COURSE. COLOR 1.
R	COPING. CAST STONE. PROVIDE DRIP EDGE BOTH SIDES.
S	1/2" TRIMLESS JOINT.

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BUILDING ELEVATIONS

A4.1

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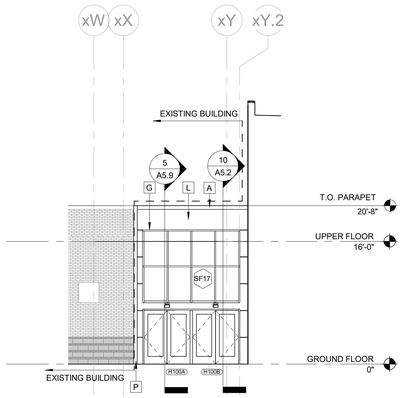
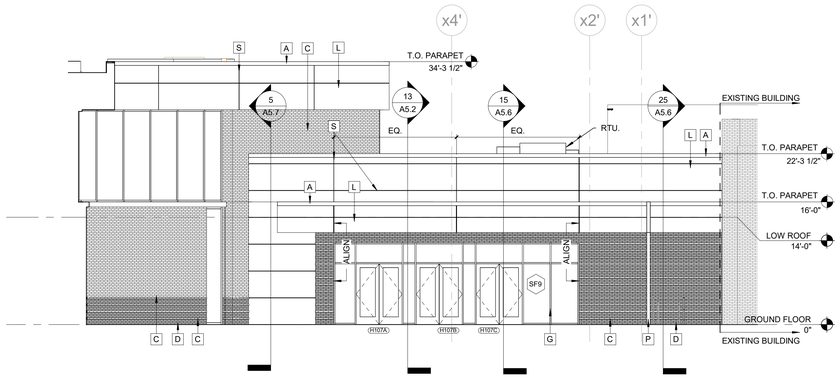
EXTERIOR KEYNOTES

#	NOTE
A	COPING. ALUM. PREFIN. 6". COLOR 1.
B	EXPANSION JOINT. 2".
C	FACE BRICK. COLOR 1.
D	FACE BRICK. COLOR 2.
F	BRAKE METAL.
G	STOREFRONT. ALUM. PREFINISHED.
H	DIMENSIONAL LETTER SIGNAGE.
I	TRANSLUCENT WALL SYSTEM (KINGSPAN UNIQUAD).
J	ROOF ACCESS LADDER. REFER TO 9/A6.3.
K	MC-1: METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.
L	MP-1: STEEL-FACED INSULATED METAL PANELS (R8.0/INCH). MICRO-RIB. HORIZONTAL. REFER TO SECTION 074213.
M	MP-2: STEEL-FACED INSULATED METAL PANELS (R8.0/INCH). SMOOTH. VERTICAL. REFER TO SECTION 074213.
O	MP-3: FORMED METAL PANELS. REFER TO SECTION 074213.13.
P	METAL EXPANSION JOINT COVER.
Q	FACE BRICK. SOLDIER COURSE. COLOR 1.
R	COPING. CAST STONE. PROVIDE DRIP EDGE BOTH SIDES.
S	1/2" TRIMLESS JOINT.



7 ELEVATION WEST ELEVATION - MIDDLE SCHOOL ENTRY

SCALE: 1/8" = 1'-0"



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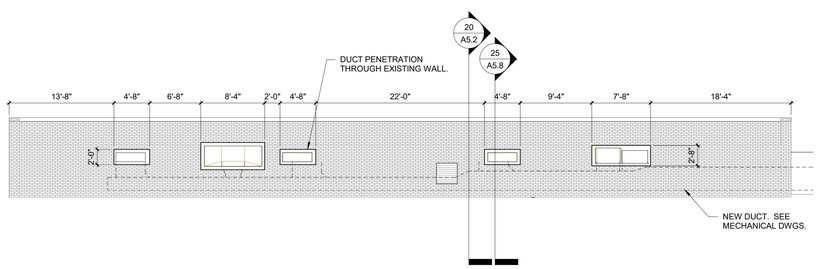

15 ELEVATION EAST ELEVATION - NATATORIUM

SCALE: 1/8" = 1'-0"

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BUILDING ELEVATIONS

A4.2

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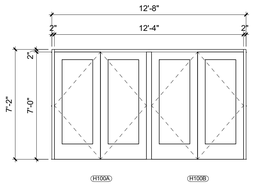

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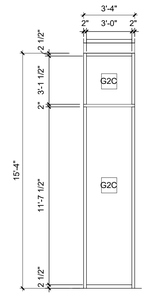

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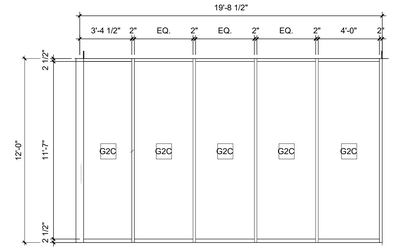

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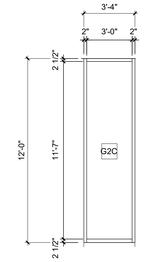

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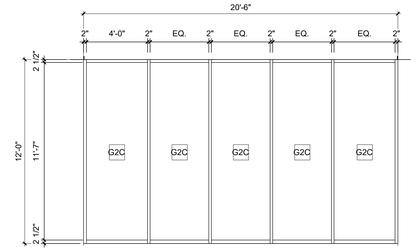

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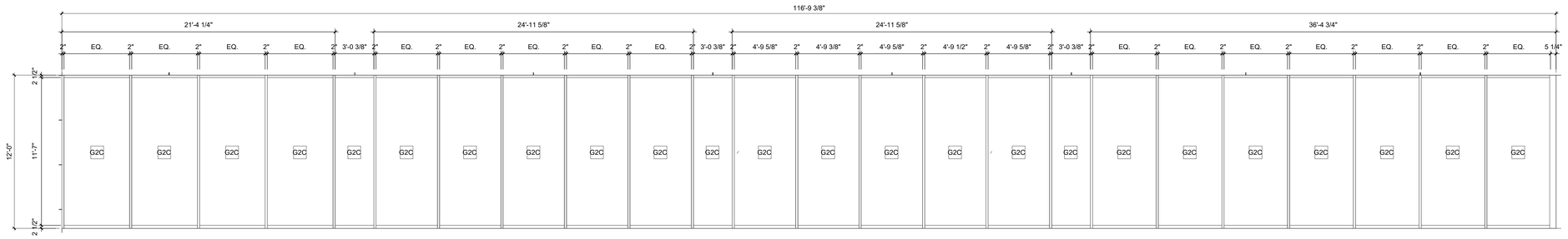

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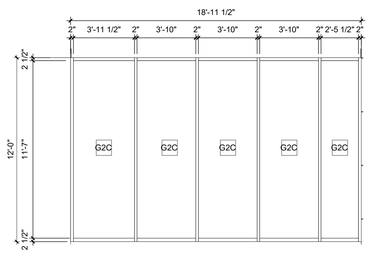
SCALE: 1/4" = 1'-0"



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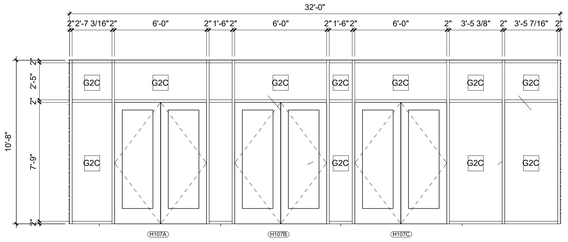

13 ELEVATION SF9
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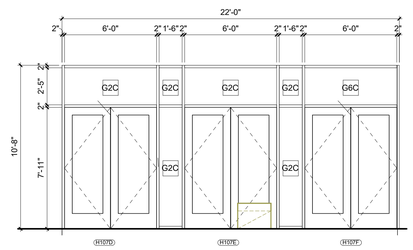

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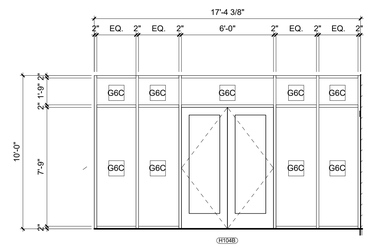

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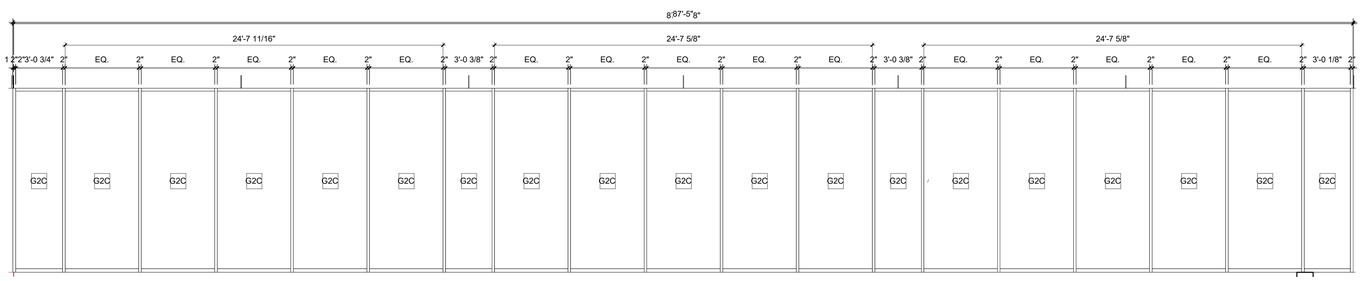

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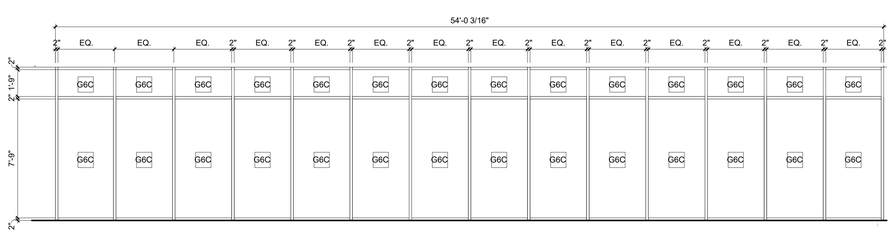
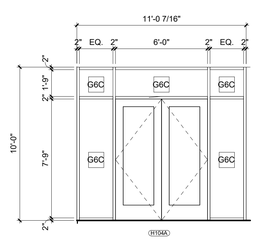


25 ELEVATION SF12
SCALE: 1/4" = 1'-0"



15 ELEVATION SF13
SCALE: 1/4" = 1'-0"

CPI SCHEDULE

MARK	COUNT	DEPTH	BASIS OF DESIGN
CPI1	1	4"	KINGSPAN UNIQUAD
CPI2	1	4"	KINGSPAN UNIQUAD
CPI3	3	4"	KINGSPAN UNIQUAD
CPI4	1	4"	KINGSPAN UNIQUAD

STOREFRONT SCHEDULE

MARK	COUNT	MULLION PROFILE	BASIS OF DESIGN
SF1	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF2	4	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF3	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF4	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF5	4	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF6	3	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF7	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF8	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF9	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF10	1	2" x 4 1/2"	A. TUBELITE T14000 SERIES B. KAWNEER TRIFAB 451T SERIES
SF11	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF12	2	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF13	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF14	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF15	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF16	1	2" x 4 1/2"	A. TUBELITE T14000 SERIES B. KAWNEER TRIFAB 451T SERIES
SF17	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF18	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES

GLAZING SCHEDULE

TYPE MARK	TYPE COMMENTS
G2C	INSULATING GLASS UNITS: VISION GLASS, DOUBLE GLAZED, FULLY TEMPERED (CENTER GLAZED)
G6C	MONOLITHIC INTERIOR VISION GLAZING, FULLY TEMPERED (CENTER GLAZED)
G7C	SPANDREL GLAZING (CENTER GLAZED)

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TONY C. POLLO REGISTERED AR10300148 STATE OF INDIANA ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

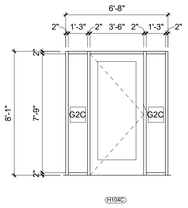
REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON. DOCS.
DWR LTT
CHK TAS

STOREFRONT ELEVATIONS & SCHEDULES

A4.3



21 ELEVATION SF18
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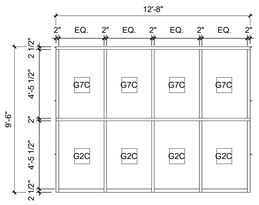
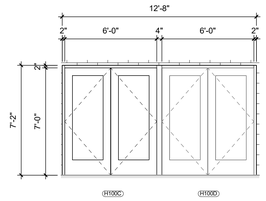


16 ELEVATION SF17
SCALE: 1/4" = 1'-0"



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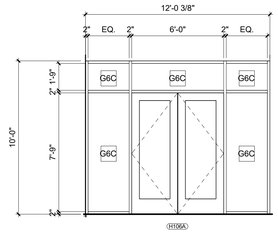

6 ELEVATION SF15
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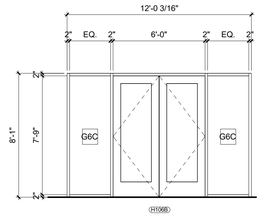

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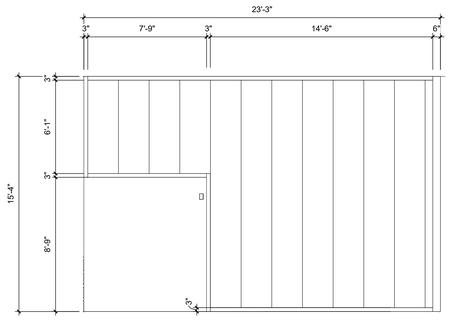
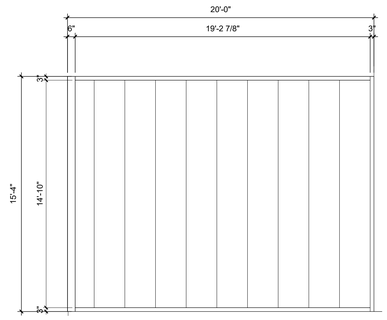
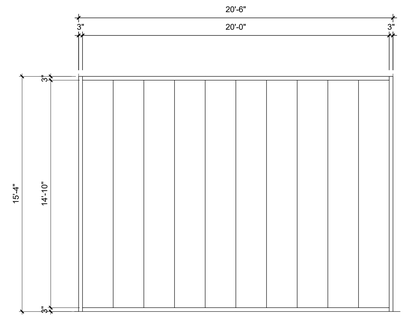


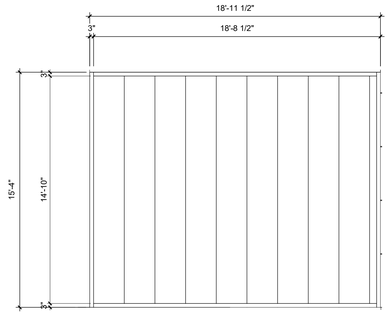
23 ELEVATION CPI1
SCALE: 1/4" = 1'-0"



13 ELEVATION CPI2
SCALE: 1/4" = 1'-0"



8 ELEVATION CPI3
SCALE: 1/4" = 1'-0"



3 ELEVATION CPI4
SCALE: 1/4" = 1'-0"

CPI SCHEDULE

MARK	COUNT	DEPTH	BASIS OF DESIGN
CPI1	1	4"	KINGSPAN UNIQUAD
CPI2	1	4"	KINGSPAN UNIQUAD
CPI3	3	4"	KINGSPAN UNIQUAD
CPI4	1	4"	KINGSPAN UNIQUAD

STOREFRONT SCHEDULE

MARK	COUNT	MULLION PROFILE	BASIS OF DESIGN
SF1	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF2	4	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF3	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF4	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF5	4	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF6	3	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF7	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF8	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF9	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF10	1	2" x 4 1/2"	A. TUBELITE T14000 SERIES B. KAWNEER TRIFAB 451T SERIES
SF11	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF12	2	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF13	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF14	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF15	1	1 3/4" x 4 1/2"	A. TUBELITE 14000 I/O SERIES B. KAWNEER TRIFAB 450 SERIES
SF16	1	2" x 4 1/2"	A. TUBELITE T14000 SERIES B. KAWNEER TRIFAB 451T SERIES
SF17	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES
SF18	1	2" x 4 1/2"	A. TUBELITE TU24000 SERIES B. KAWNEER TRIFAB 451UT SERIES

GLAZING SCHEDULE

TYPE MARK	TYPE COMMENTS
G2C	INSULATING GLASS UNITS: VISION GLASS, DOUBLE GLAZED, FULLY TEMPERED (CENTER GLAZED)
G6C	MONOLITHIC INTERIOR VISION GLAZING, FULLY TEMPERED (CENTER GLAZED)
G7C	SPANDREL GLAZING (CENTER GLAZED)

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

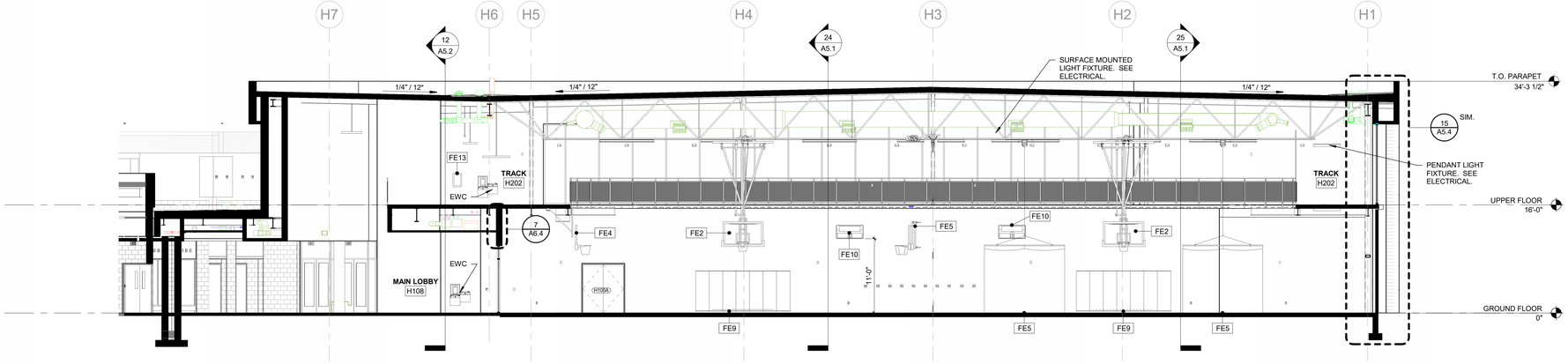
REVISIONS

NO.	DATE	DESCRIPTION

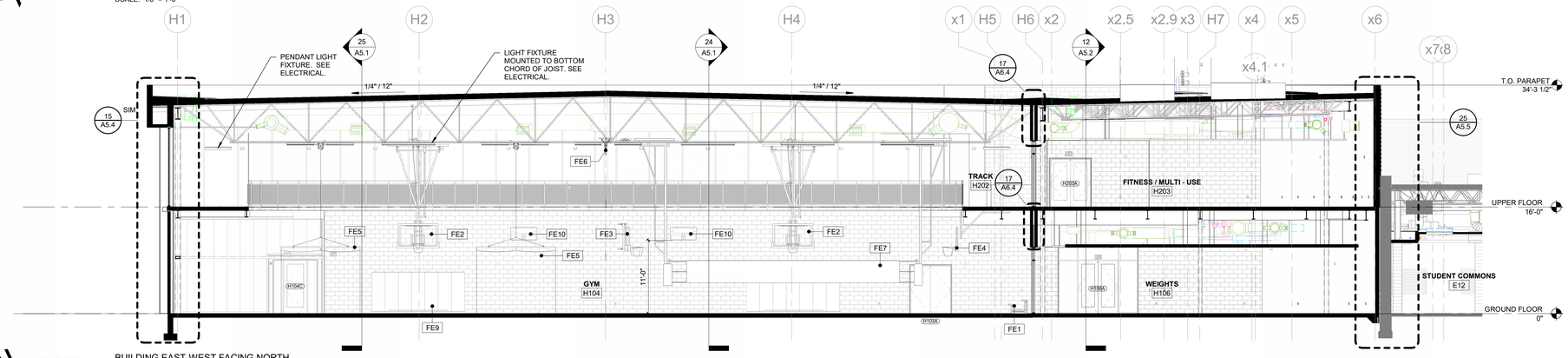
WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON. DOCS.
DWR LTT
CHK TAS

STOREFRONT / CPI ELEVATIONS & SCHEDULES

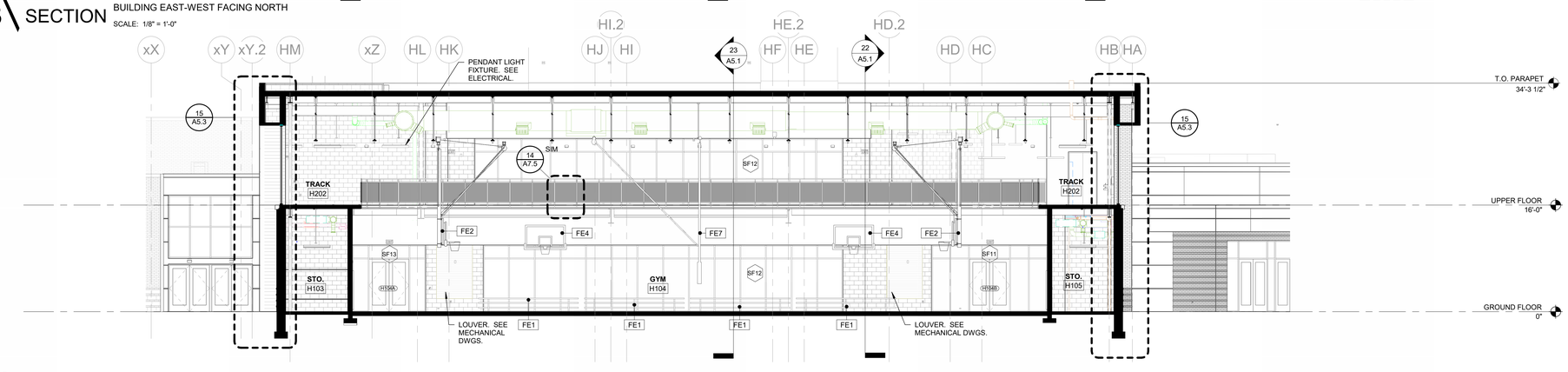
A4.4



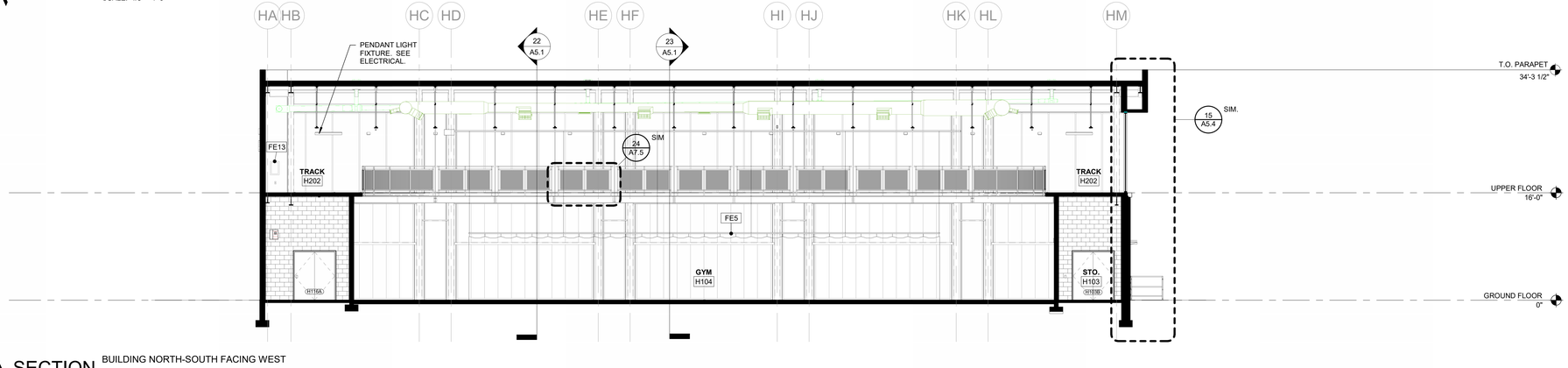
22\ SECTION BUILDING EAST-WEST FACING NORTH
SCALE: 1/8" = 1'-0"



23\ SECTION BUILDING EAST-WEST FACING NORTH
SCALE: 1/8" = 1'-0"



24\ SECTION BUILDING NORTH-SOUTH FACING EAST
SCALE: 1/8" = 1'-0"



25\ SECTION BUILDING NORTH-SOUTH FACING WEST
SCALE: 1/8" = 1'-0"

FURNISHED EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	COUNT	PROVIDED BY	INSTALLED BY
FE1	BLEACHERS. TILT-UP. ROLLING. ALUMINUM. 12'-0". 2 SEAT ROWS. (16 SEATS). NAT'L RECREATION SYSTEMS INC. NRS TR-0212STD OR EQUAL.	4	OWNER	OWNER
FE2	CEILING SUSPENDED REAR FOLD REAR BRACED BASKETBALL BACKSTOP.	4	CONTRACTOR	CONTRACTOR
FE3	CEILING SUSPENDED SIDE FOLD BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE4	WALL MOUNTED BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE5	CEILING SUSPENDED 10'x12'x70' BATTING CAGE.	2	CONTRACTOR	CONTRACTOR
FE6	GYM DIVIDER CURTAIN. MOTORIZED, FOLD-UP.	1	CONTRACTOR	CONTRACTOR
FE7	CEILING SUSPENDED FORWARD FOLD FRONT BRACED VOLLEYBALL NET.	1	CONTRACTOR	CONTRACTOR
FE8	VOLLEYBALL NET FLOOR SLEEVE	2	CONTRACTOR	CONTRACTOR
FE9	WALL PAD. 2'x6'x2". TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
FE10	WALL MOUNTED SCOREBOARD	4	CONTRACTOR	CONTRACTOR
FE11	CHINNING BAR. WALL MOUNTED. GILL ATHLETICS WE179.	4	CONTRACTOR	CONTRACTOR
FE12	12'x12' PRACTICE WRESTLING MAT WITH 10' DIAMETER CIRCLE. 1 3/8" THICK.	10	OWNER	OWNER
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7	CONTRACTOR	CONTRACTOR
FE14	CONCRETE BACKLESS BENCH. 96"Lx24"Wx17"H BY BELSON OUTDOORS. MODEL SLB96.	4	CONTRACTOR	CONTRACTOR
FE15	1" THICK RESILIENT FLOORING.	1	OWNER	OWNER
FE16	7MM RESILIENT FLOORING.	1	OWNER	OWNER
FE17	INDOOR TURF	1	OWNER	OWNER

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

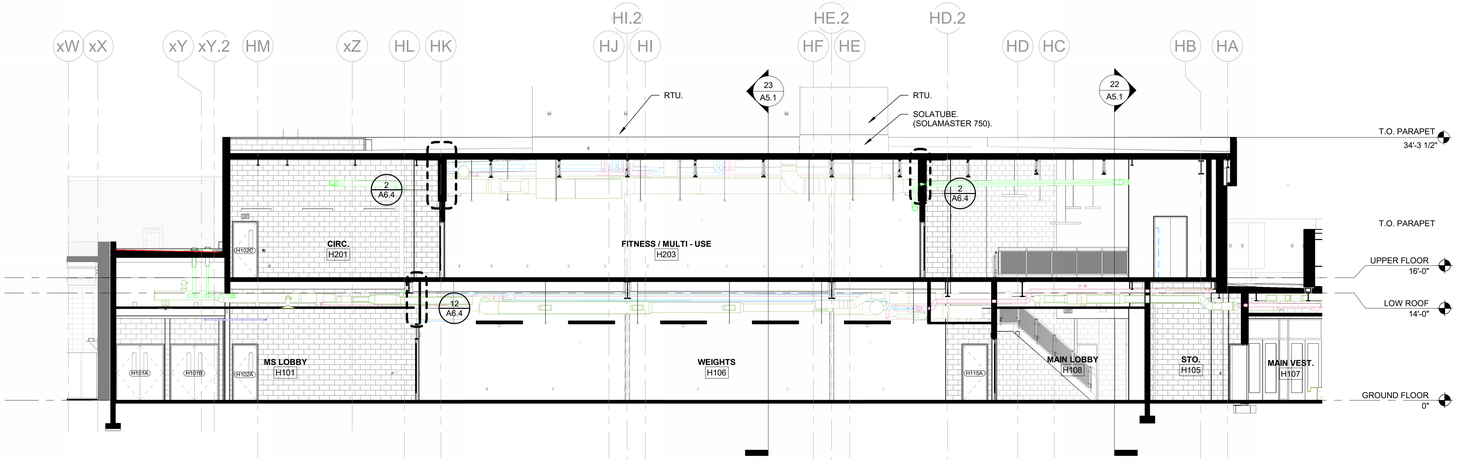
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

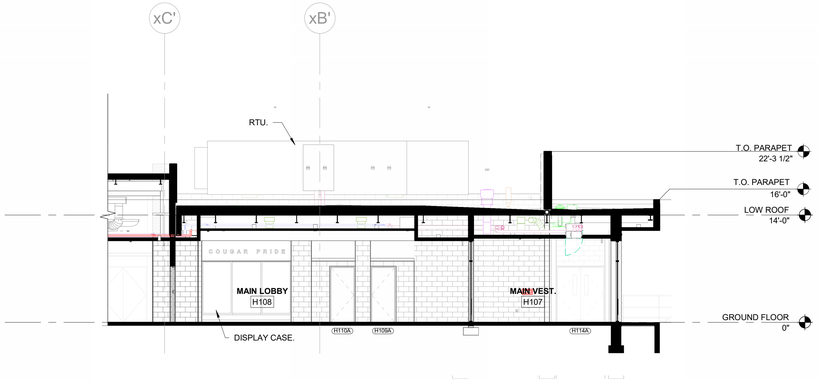
BUILDING SECTIONS

A5.1

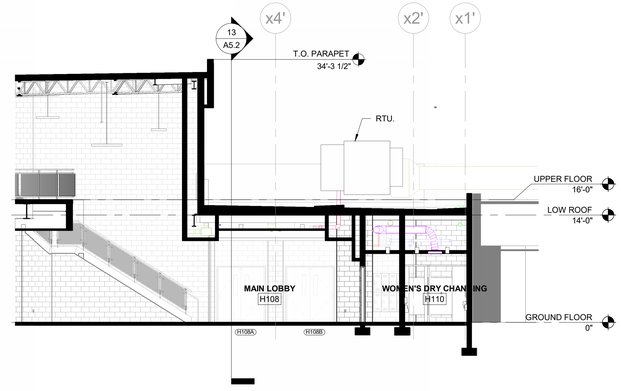
2/3/2025 9:08:06 AM



12 SECTION BUILDING NORTH-SOUTH FACING EAST
SCALE: 1/8" = 1'-0"



13 SECTION HIGH SCHOOL ENTRY
SCALE: 1/8" = 1'-0"



3 SECTION HIGH SCHOOL ENTRY
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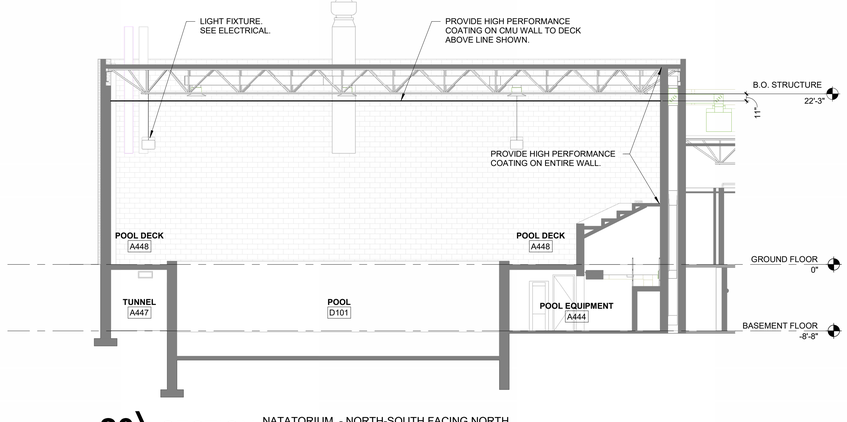
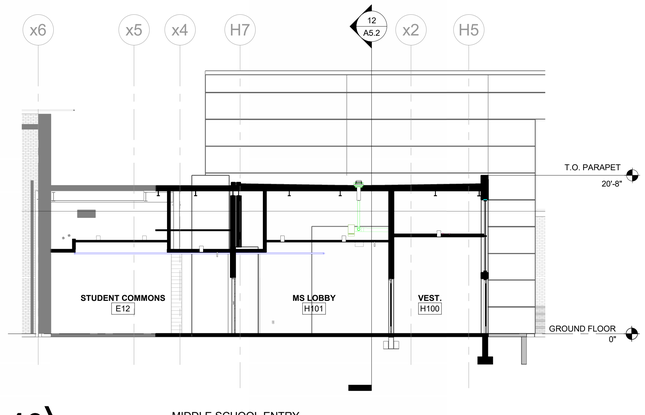


20 SECTION NATATORIUM - NORTH-SOUTH FACING NORTH
SCALE: 1/8" = 1'-0"



10 SECTION MIDDLE SCHOOL ENTRY
SCALE: 1/8" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

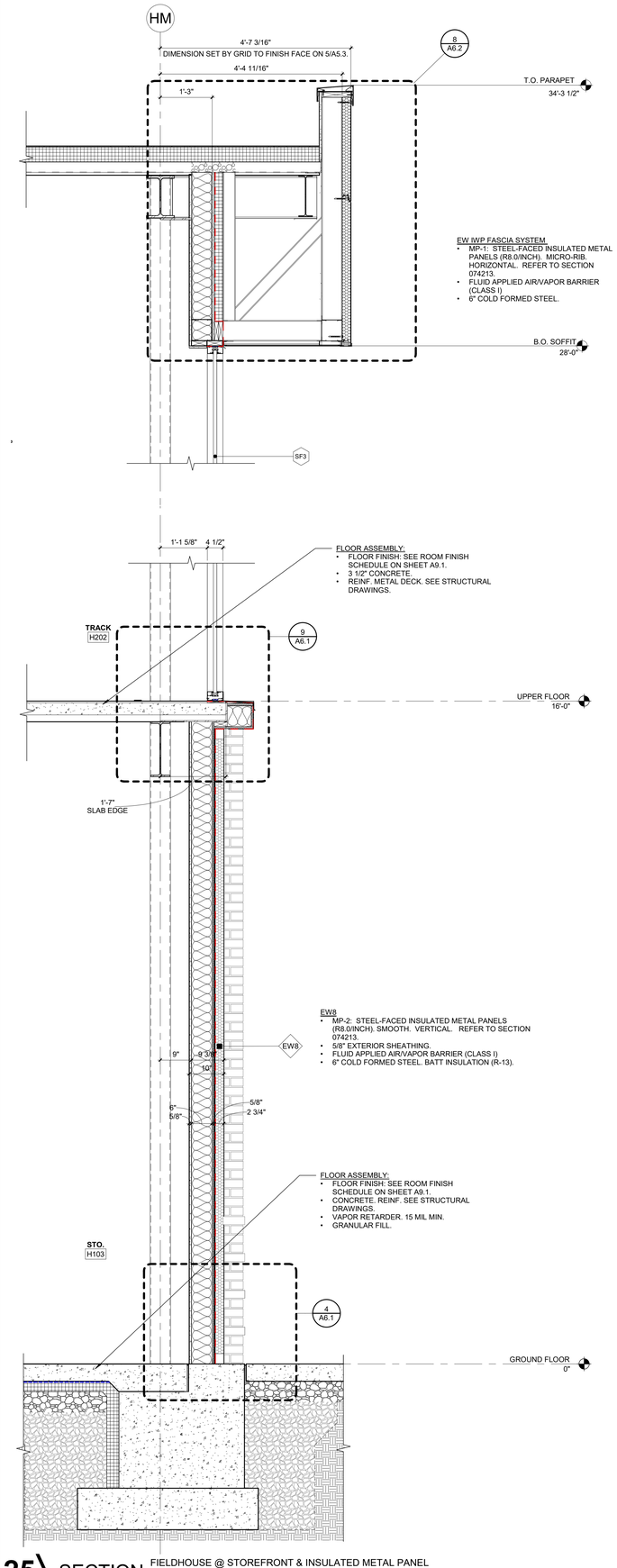
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

BUILDING SECTIONS

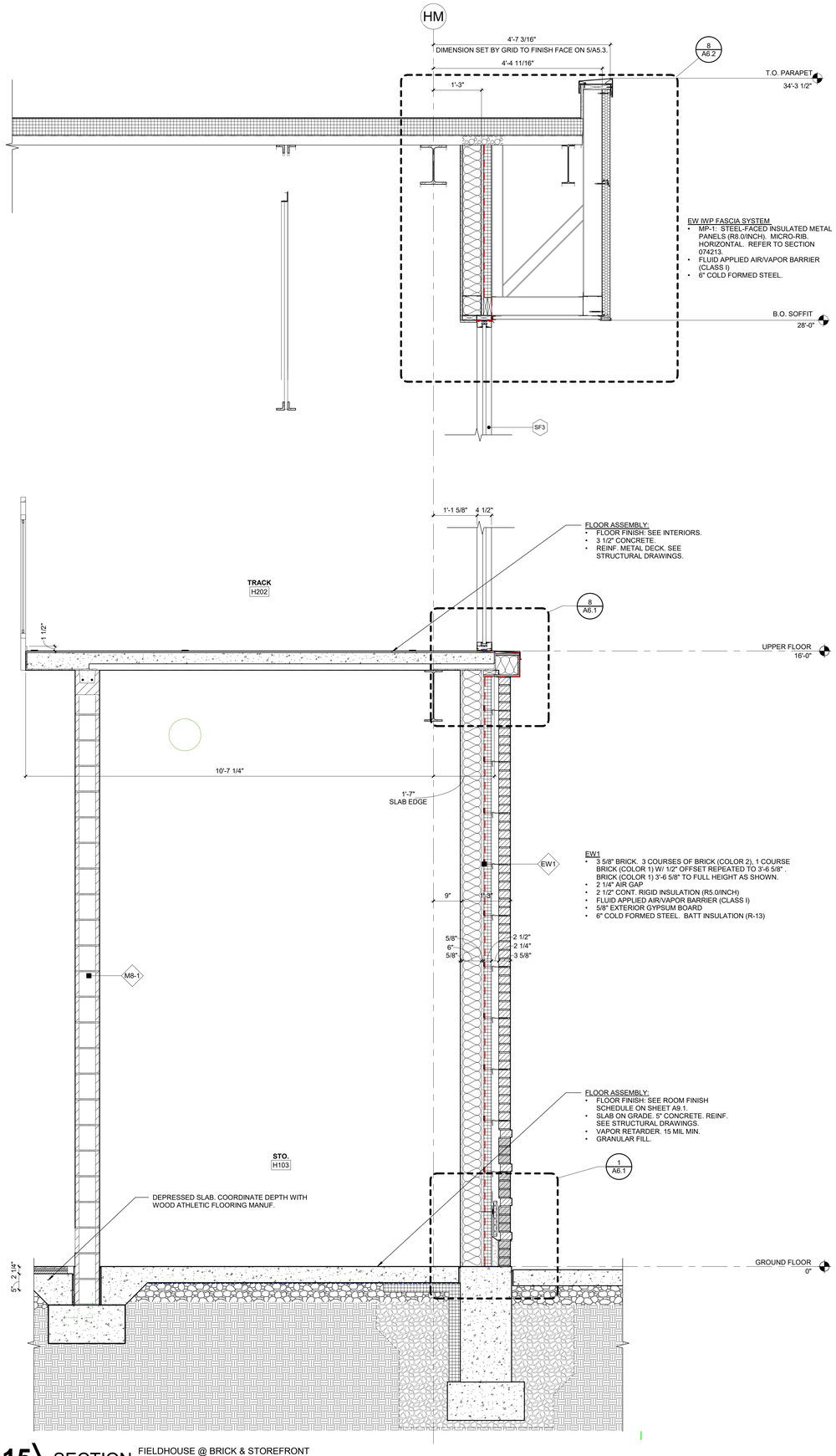
A5.2

2/3/2025 9:08:14 AM



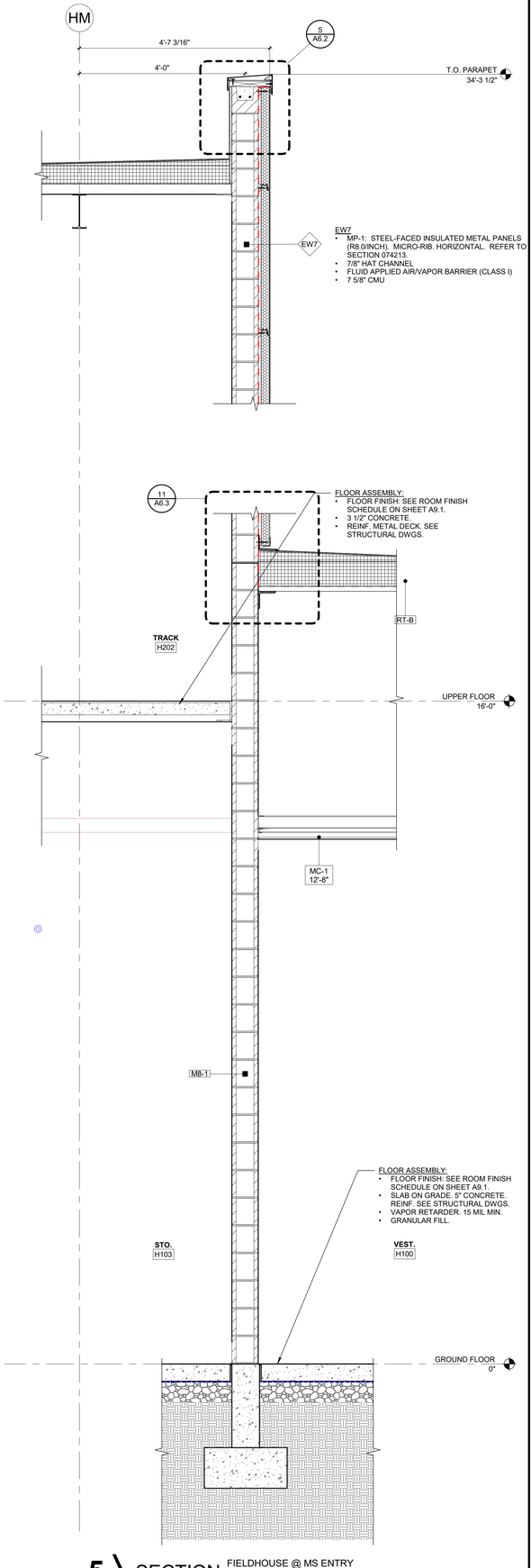
25 SECTION FIELDHOUSE @ STOREFRONT & INSULATED METAL PANEL

SCALE: 3/4" = 1'-0"



15 SECTION FIELDHOUSE @ BRICK & STOREFRONT

SCALE: 3/4" = 1'-0"



5 SECTION FIELDHOUSE @ MS ENTRY

SCALE: 3/4" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1

NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

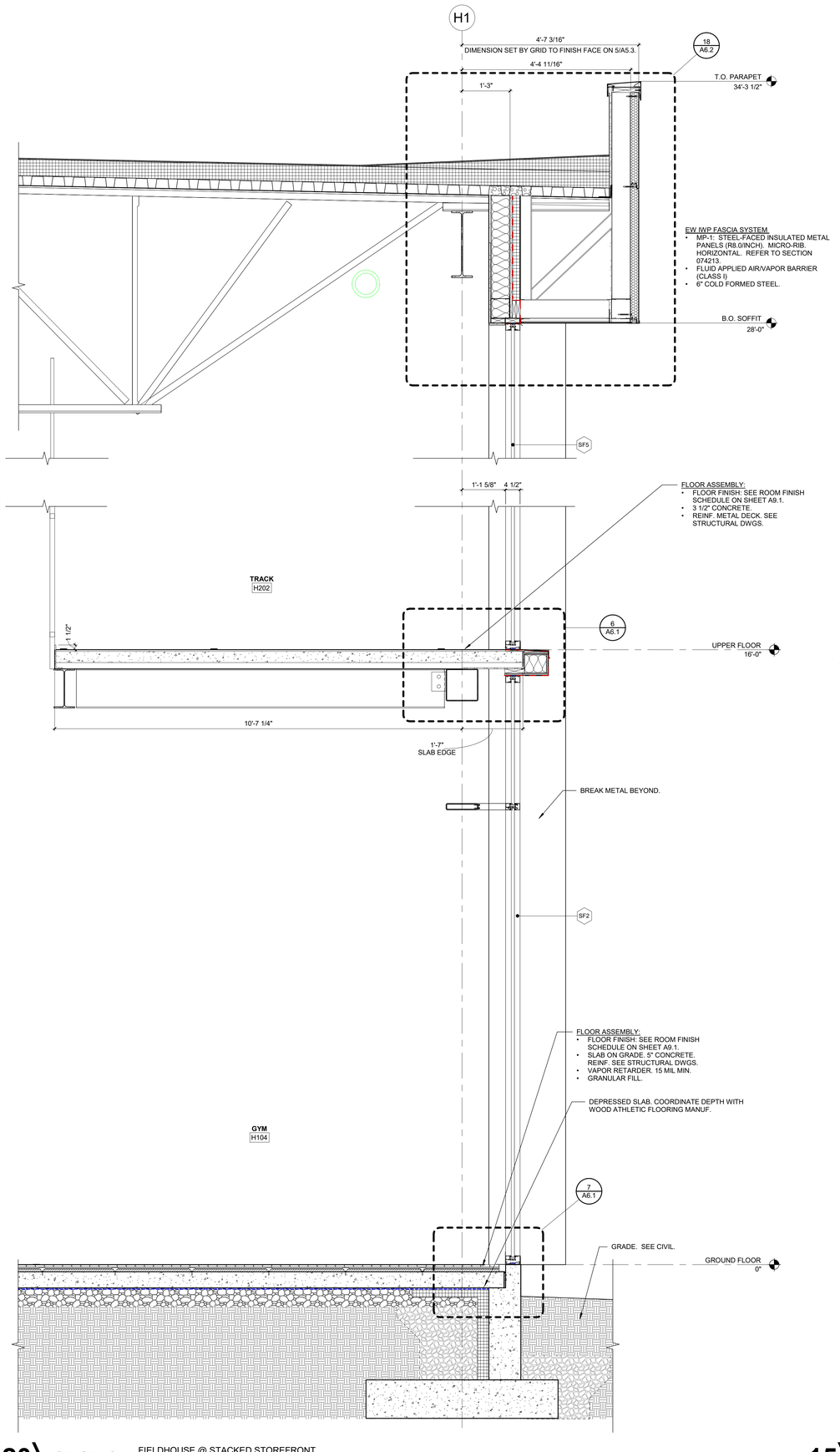
REVISIONS

NO.	DATE	DESCRIPTION

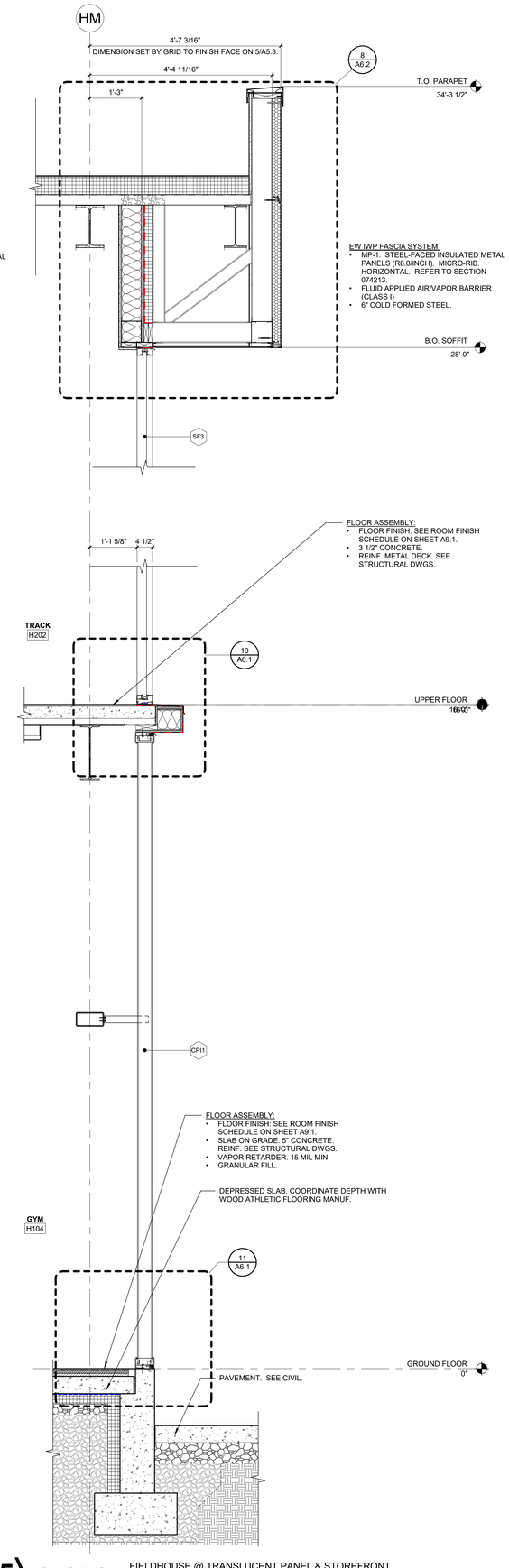
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

WALL SECTIONS

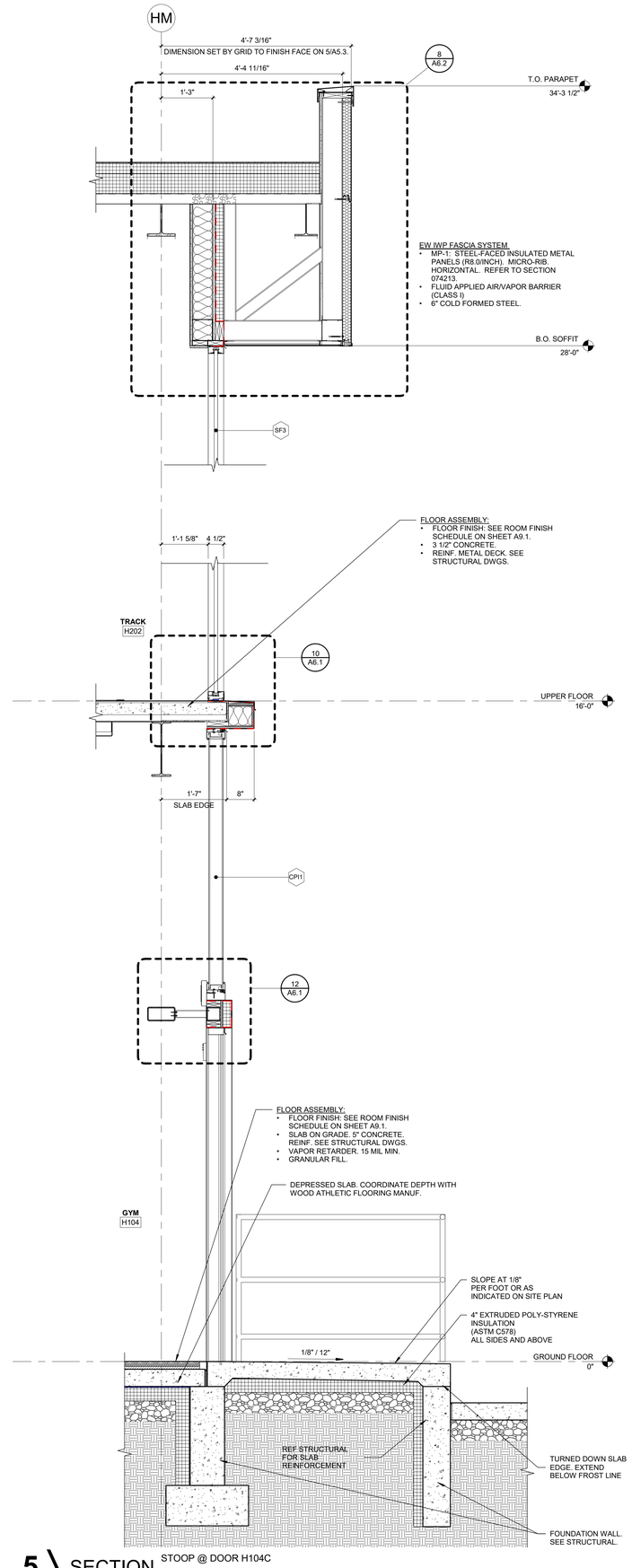
A5.3



20 SECTION FIELDHOUSE @ STACKED STOREFRONT
SCALE: 3/4" = 1'-0"



15 SECTION FIELDHOUSE @ TRANSLUCENT PANEL & STOREFRONT
SCALE: 3/4" = 1'-0"



5 SECTION STOOP @ DOOR H104C
SCALE: 3/4" = 1'-0"

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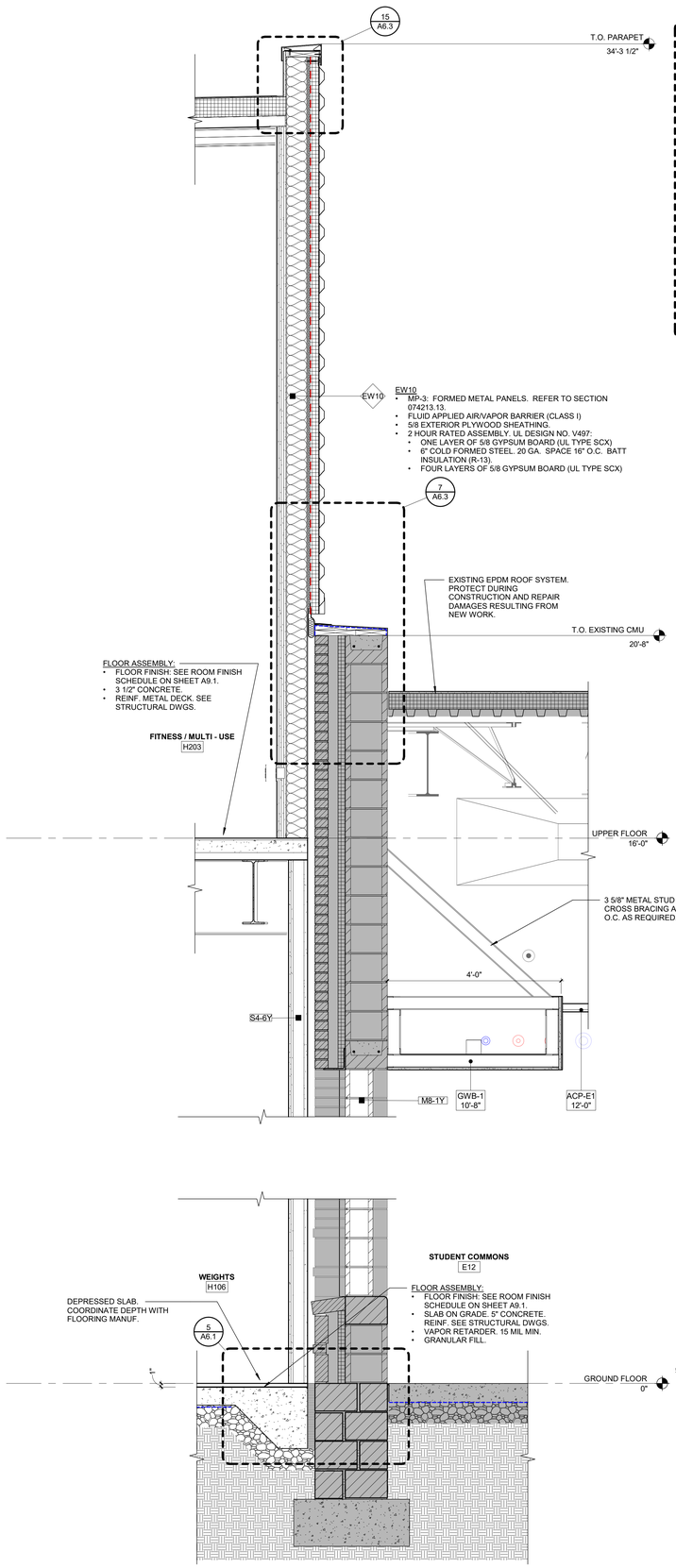
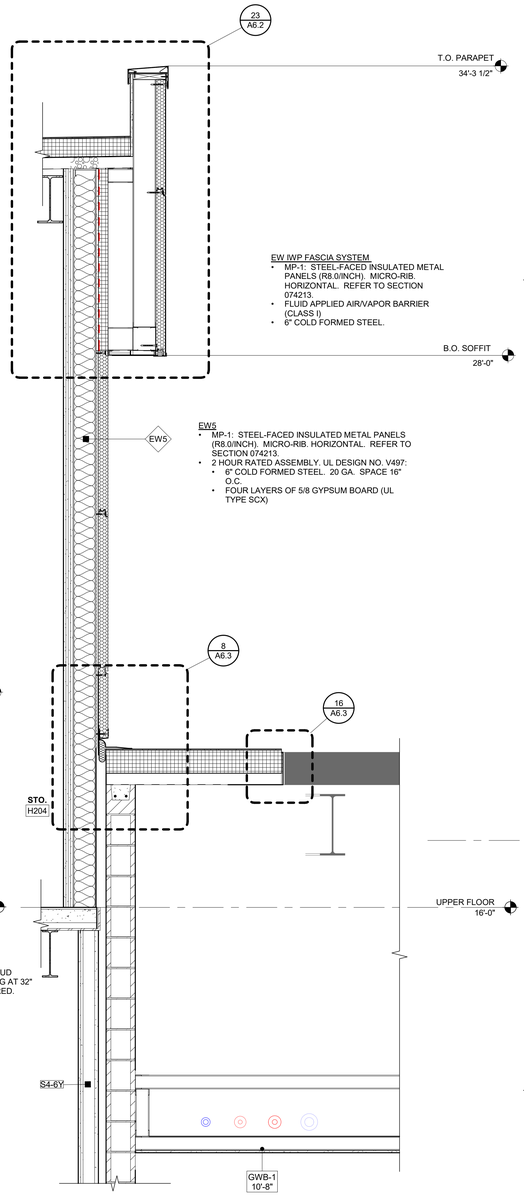
CHK	TAS

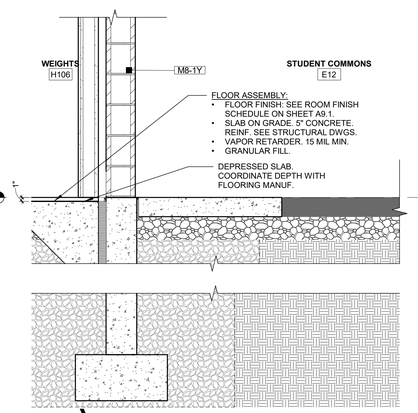
WALL SECTIONS

A5.4

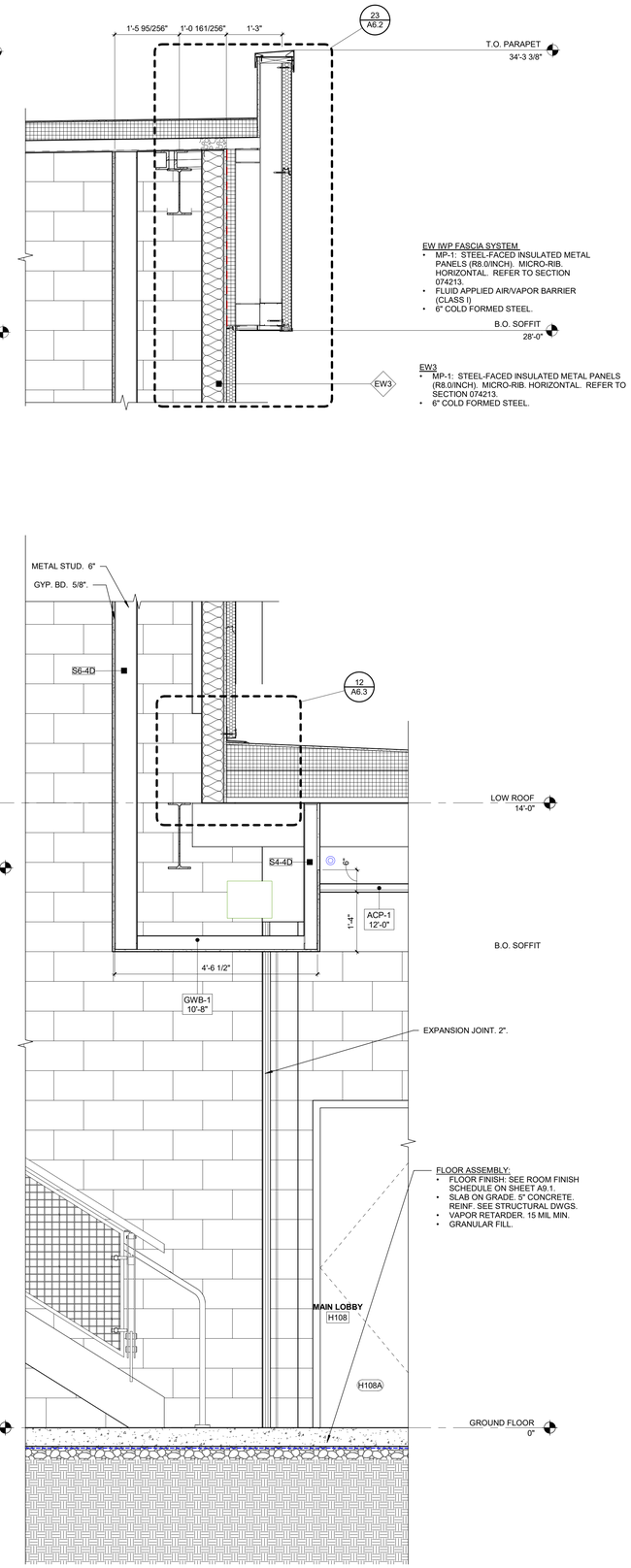


25 SECTION FITNESS @ EXISTING BUILDING
SCALE: 3/4" = 1'-0"

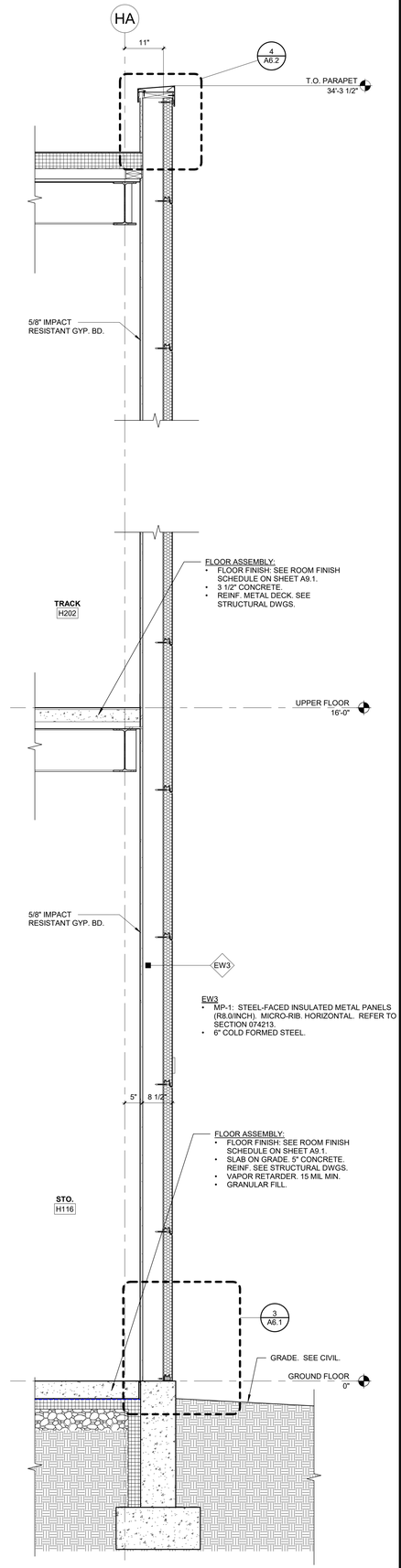




20 SECTION FITNESS @ EXISTING BUILDING
SCALE: 3/4" = 1'-0"



15 SECTION MAIN LOBBY @ STAIR
SCALE: 3/4" = 1'-0"



5 SECTION FIELDHOUSE @ INSULATED METAL PANEL
SCALE: 3/4" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

WALL SECTIONS

A5.5

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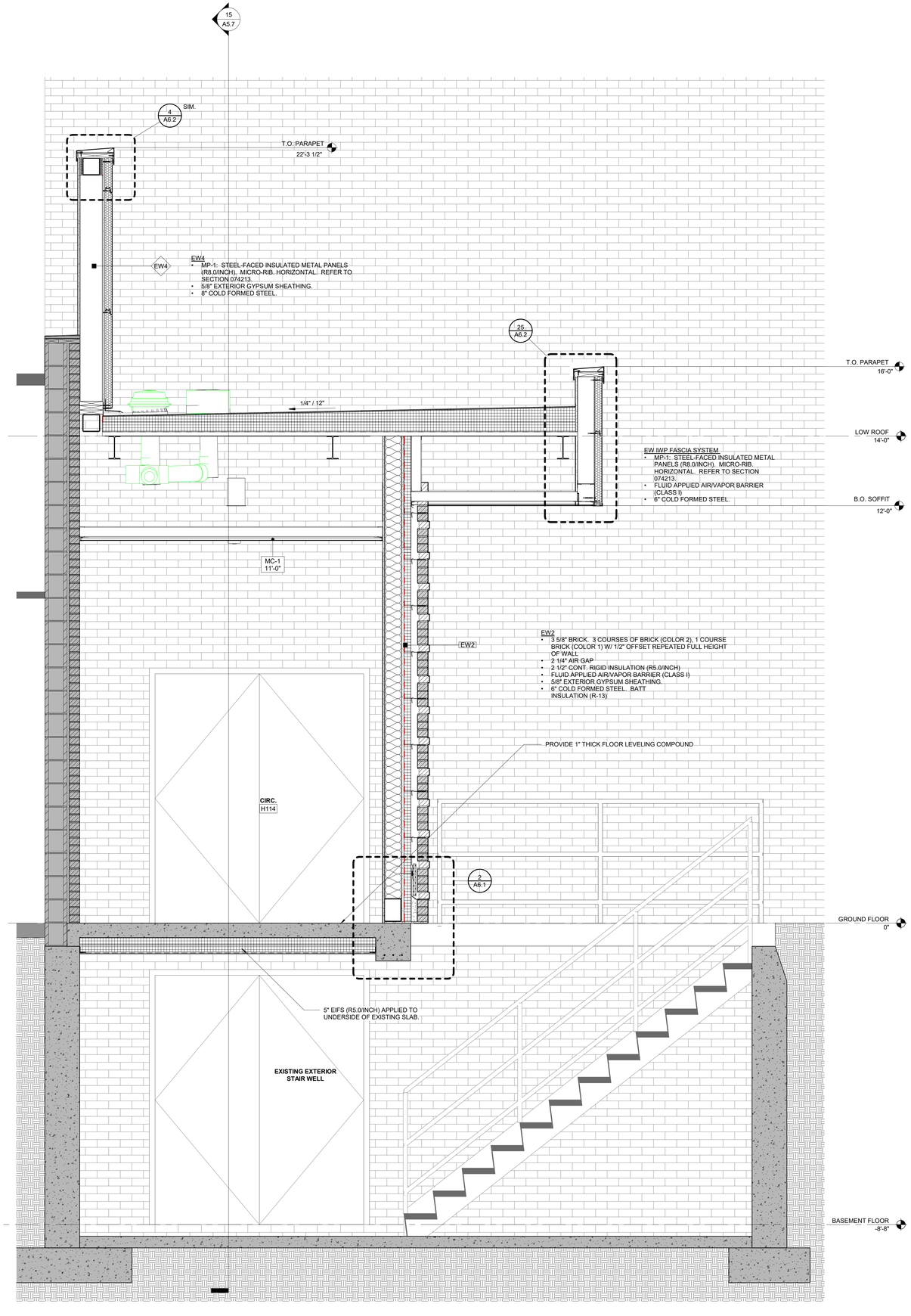
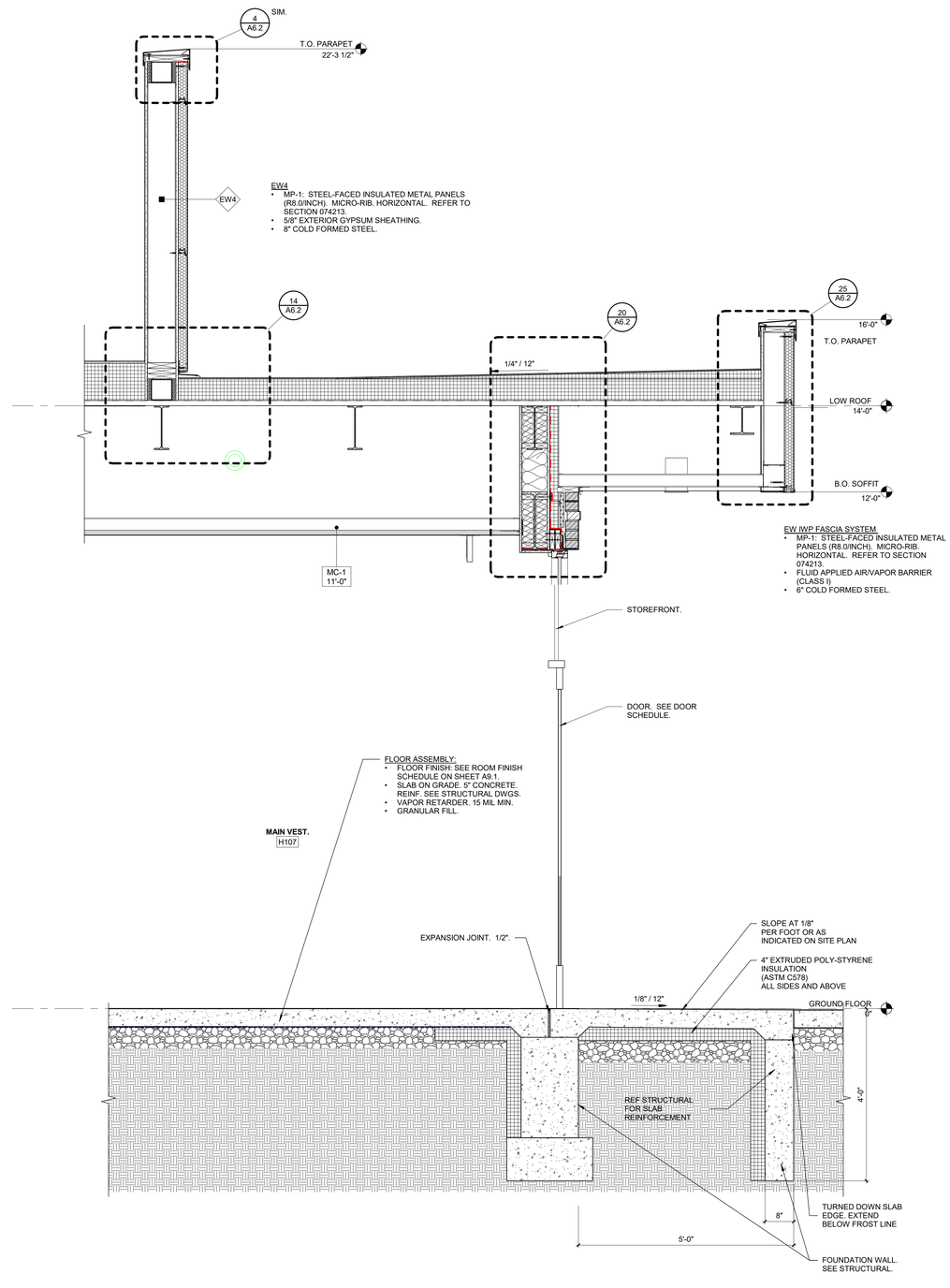


25 SECTION BRICK @ HS ENTRY NEXT TO NATATORIUM

SCALE: 3/4" = 1'-0"



15 SECTION STOREFRONT @ HS ENTRY

SCALE: 3/4" = 1'-0"

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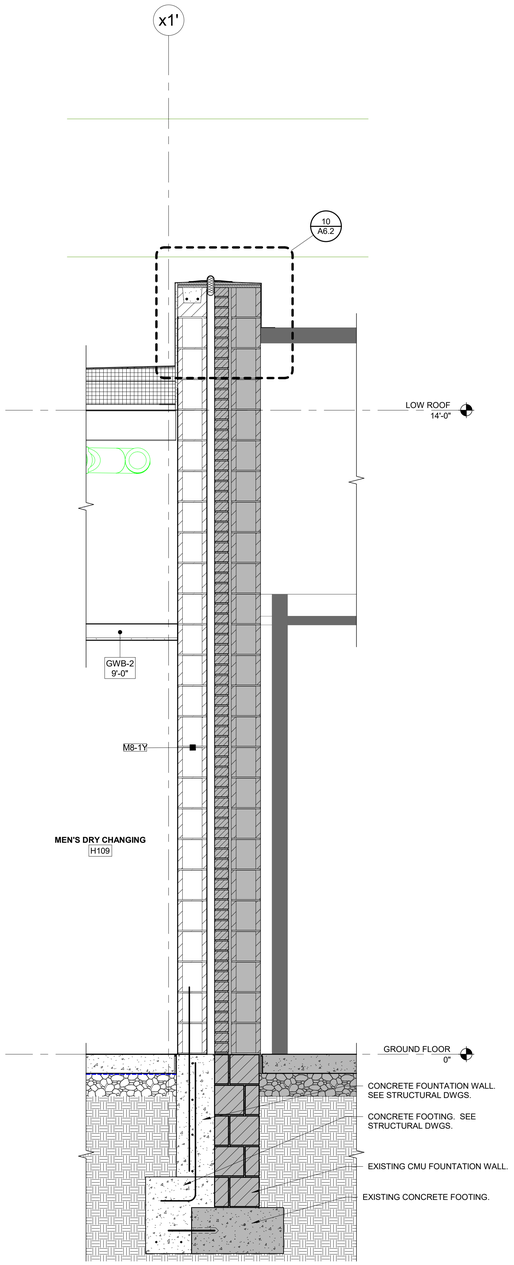
WALL SECTIONS

A5.6



20 SECTION INTERIOR LOCKERS @ EXISTING BUILDING
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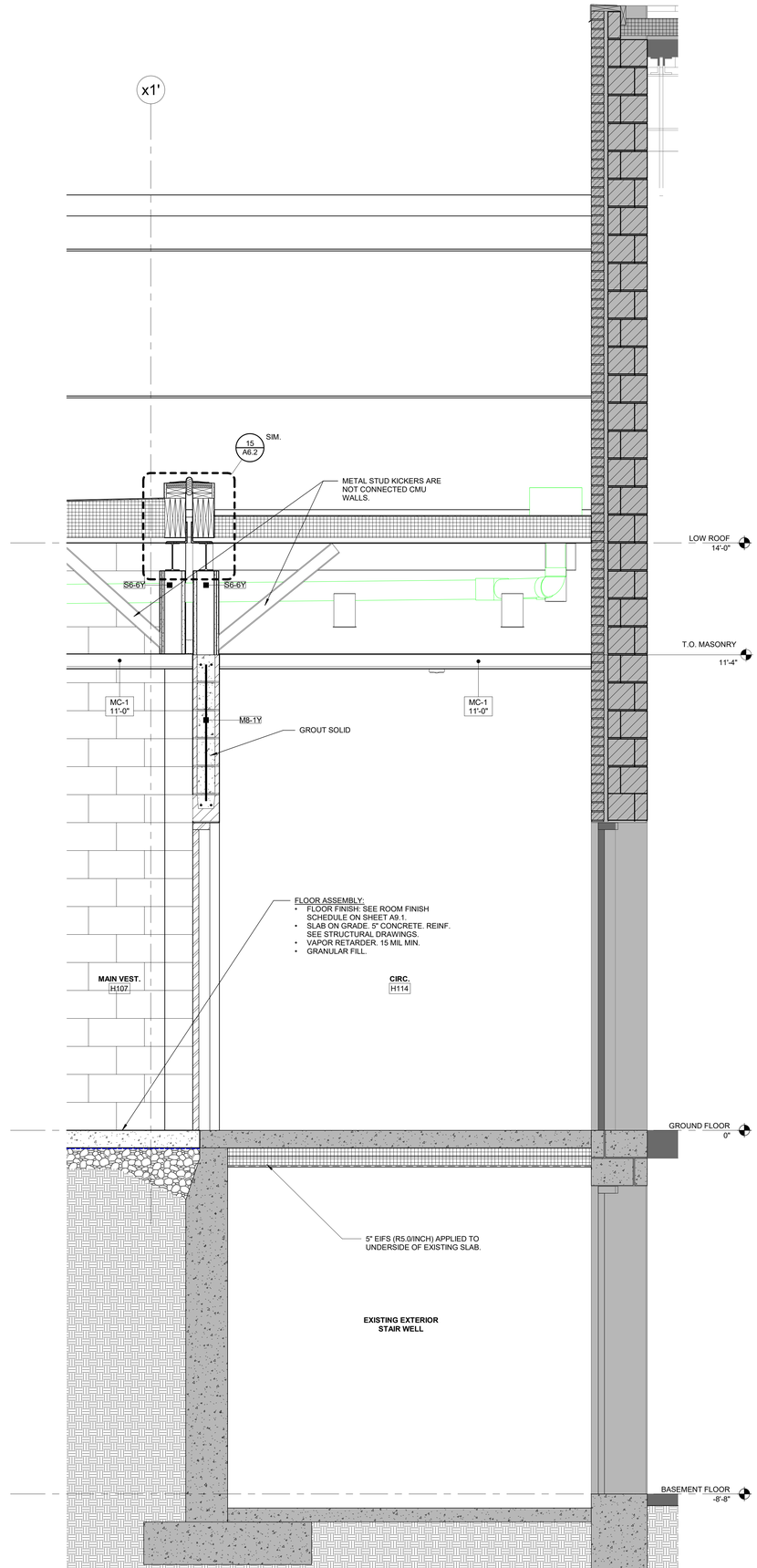
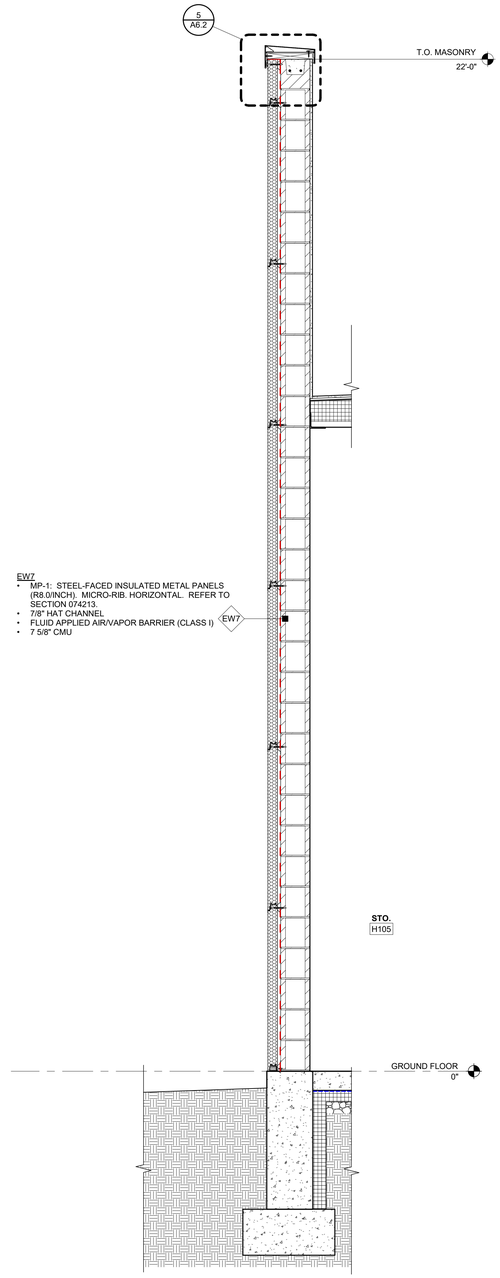


15 SECTION H114
SCALE: 3/4" = 1'-0"



5 SECTION HIGH METAL PANEL WALL @ HS ENTRY
SCALE: 3/4" = 1'-0"

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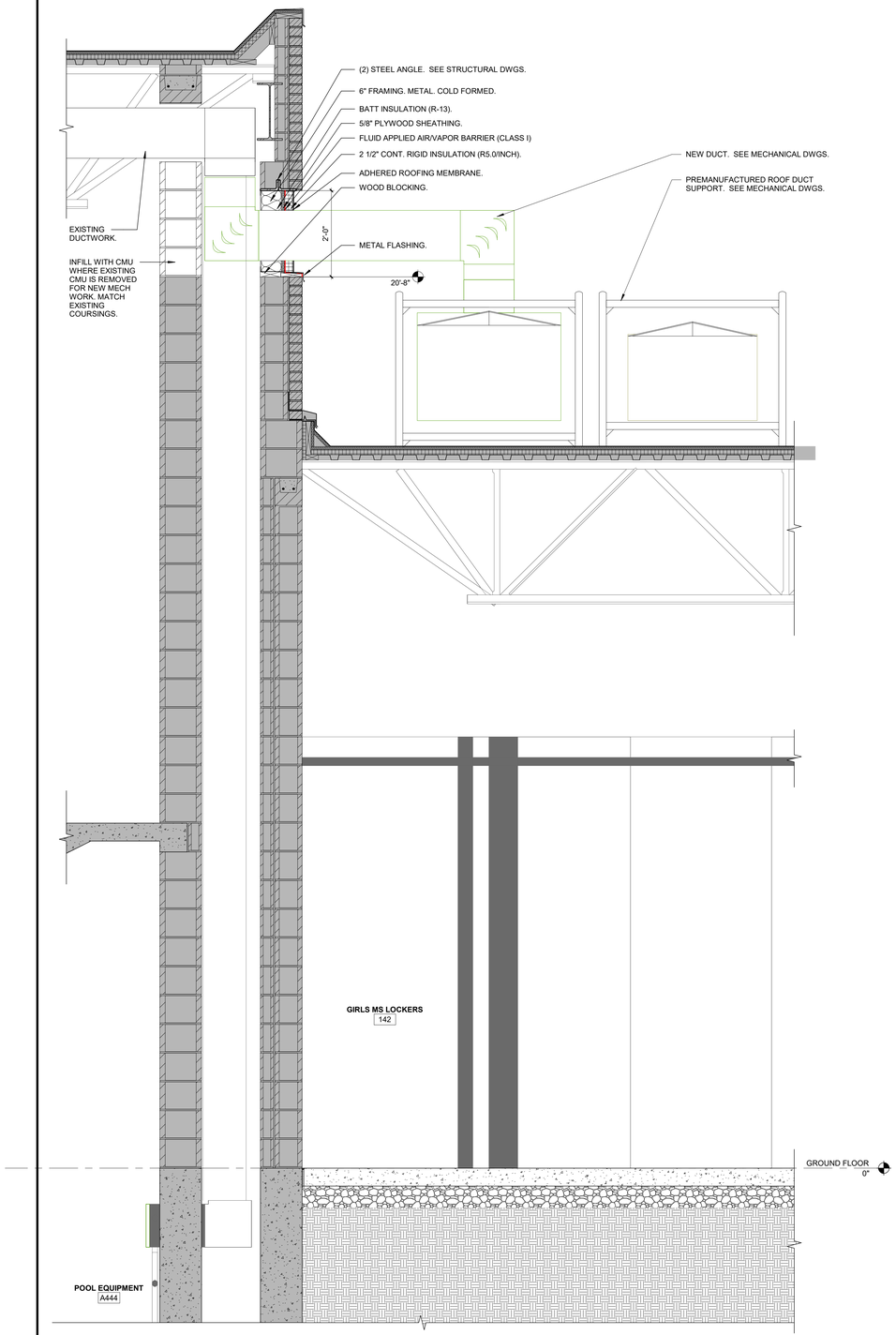
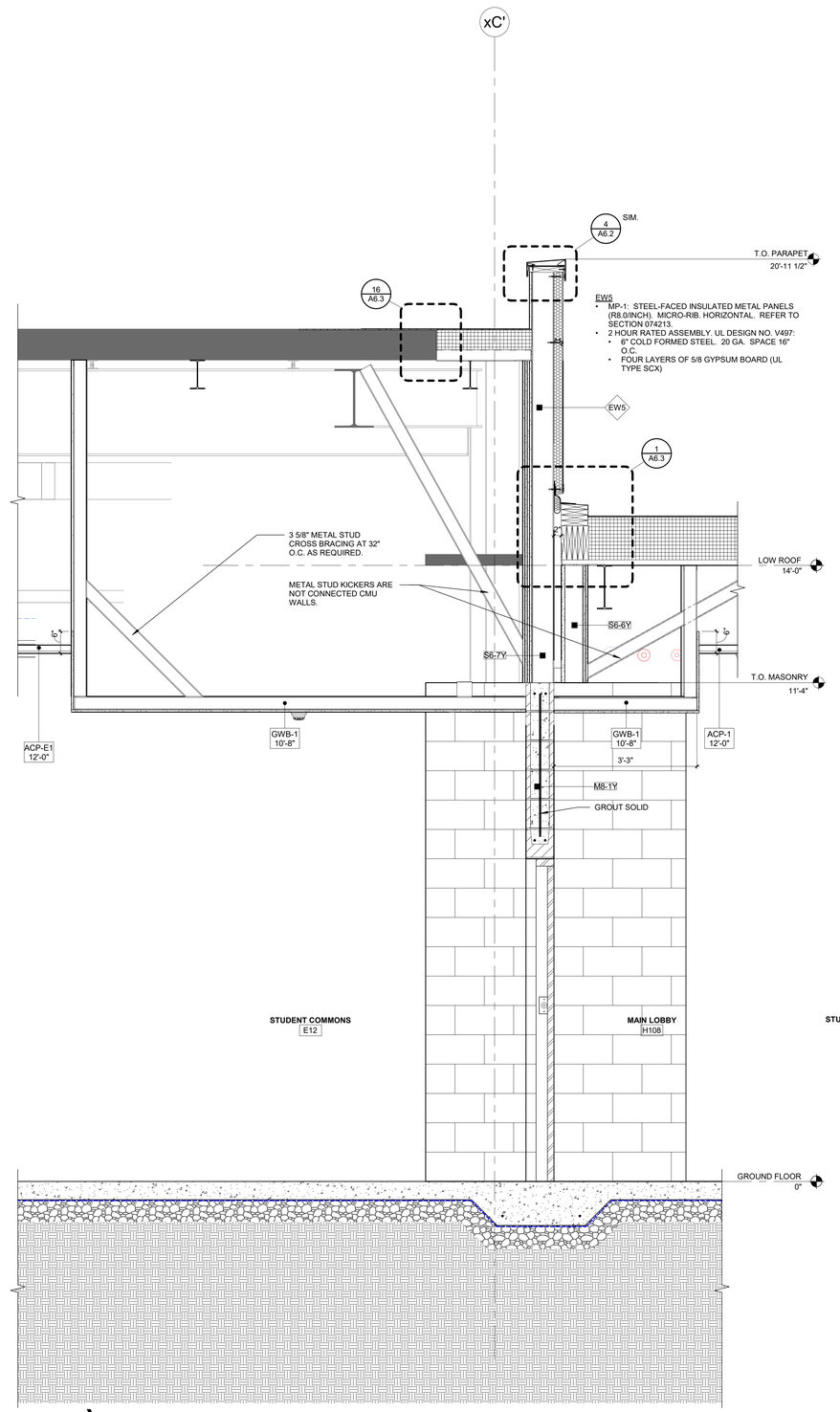
WALL SECTIONS

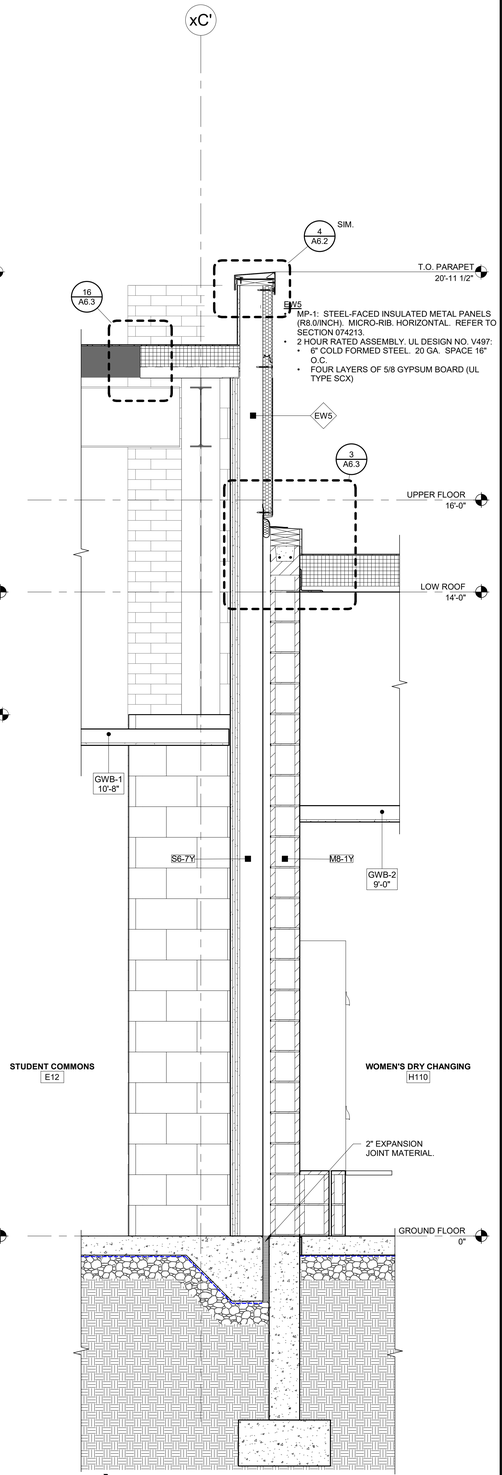
A5.7



25 SECTION EXISTING NATATORIUM
SCALE: 3/4" = 1'-0"



15 SECTION LOBBY @ EXISTING BUILDING
SCALE: 3/4" = 1'-0"



5 SECTION LOBBY @ EXISTING BUILDING
SCALE: 3/4" = 1'-0"

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WALL SECTIONS

A5.8

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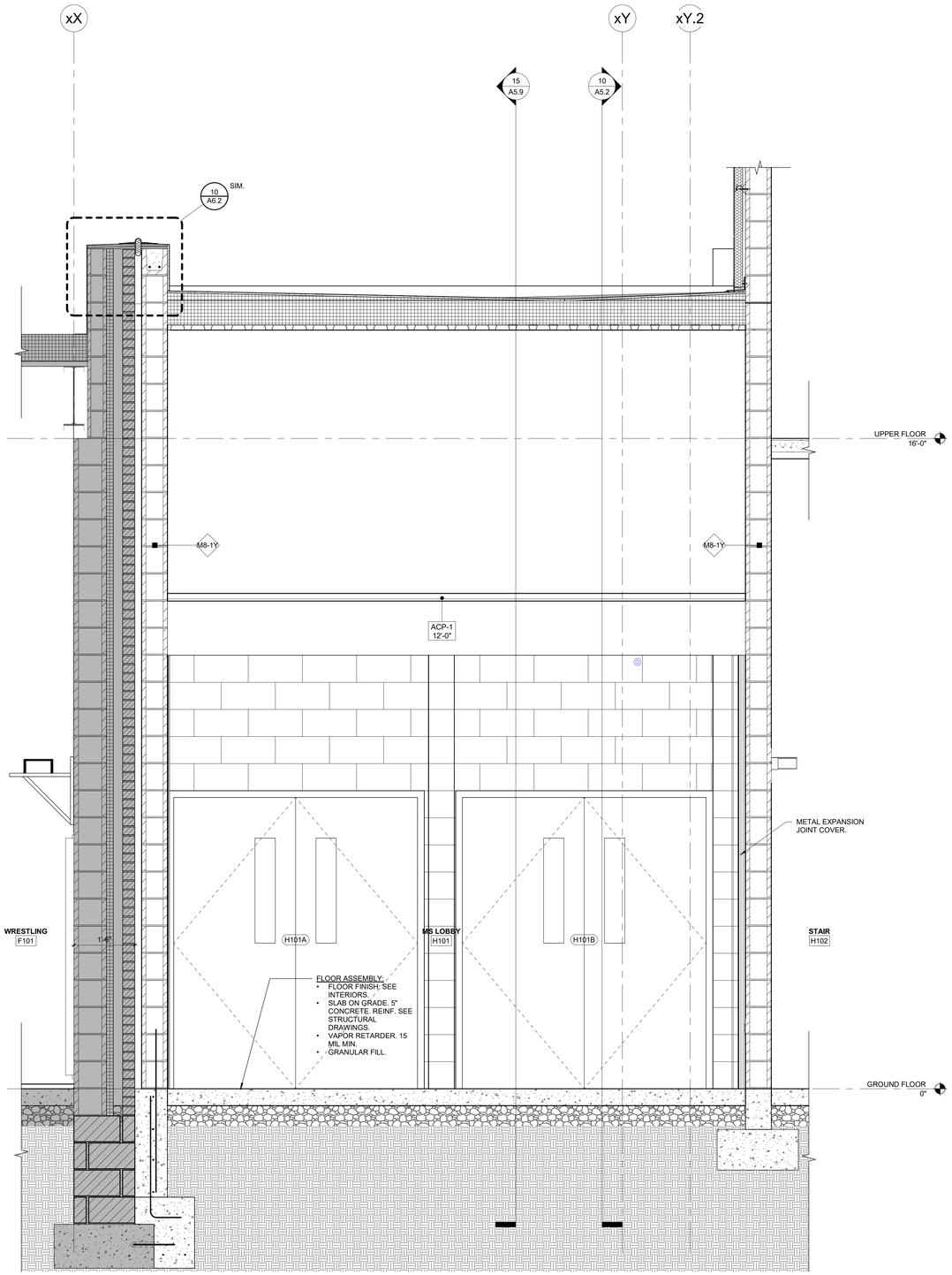

25 SECTION MIDDLE SCHOOL ENTRY

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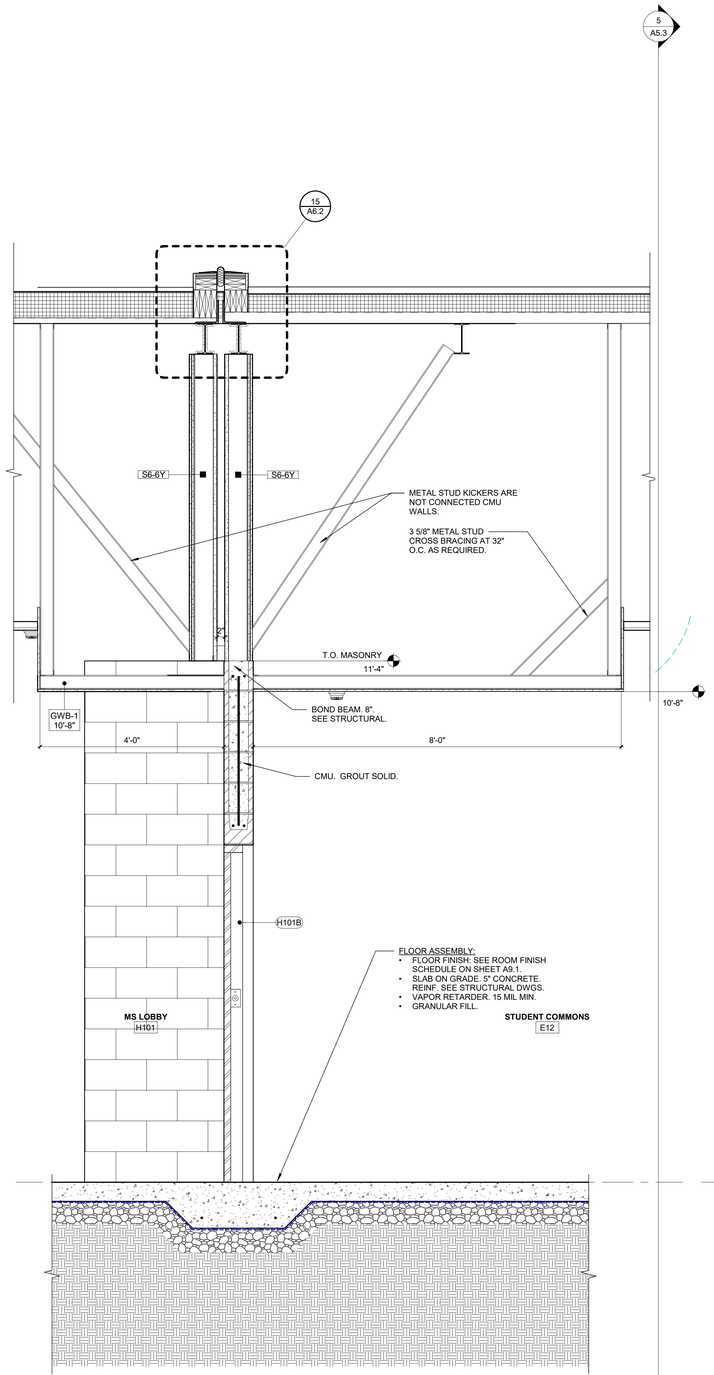
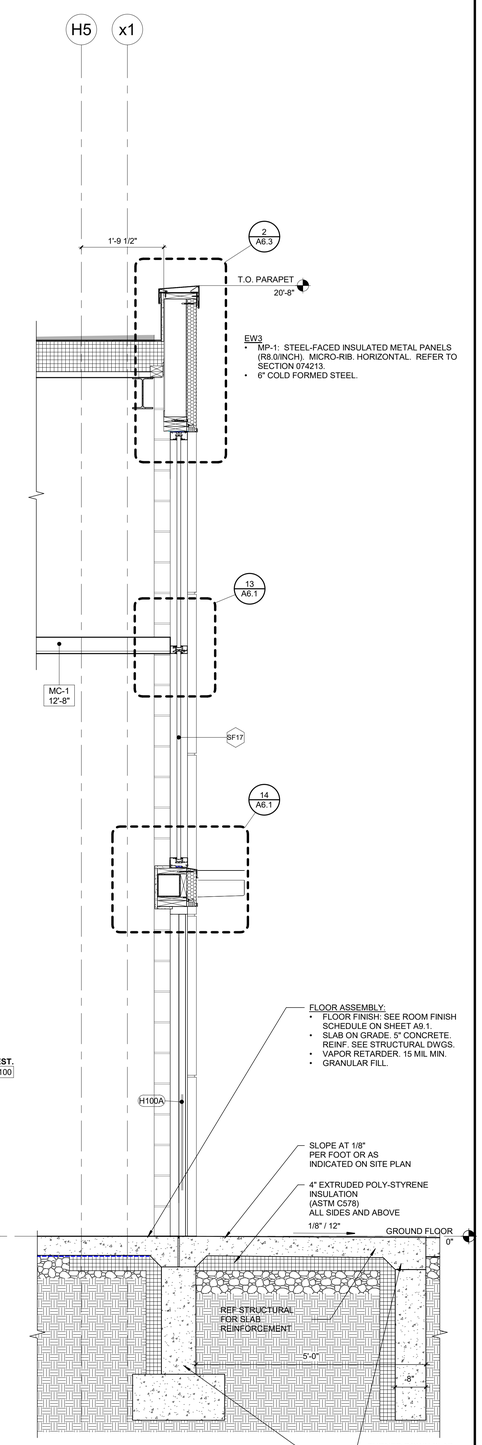


15 SECTION MS LOBBY @ EXISTING BLDG

SCALE: 3/4" = 1'-0"



5 SECTION STOREFRONT @ MS ENTRY

SCALE: 3/4" = 1'-0"

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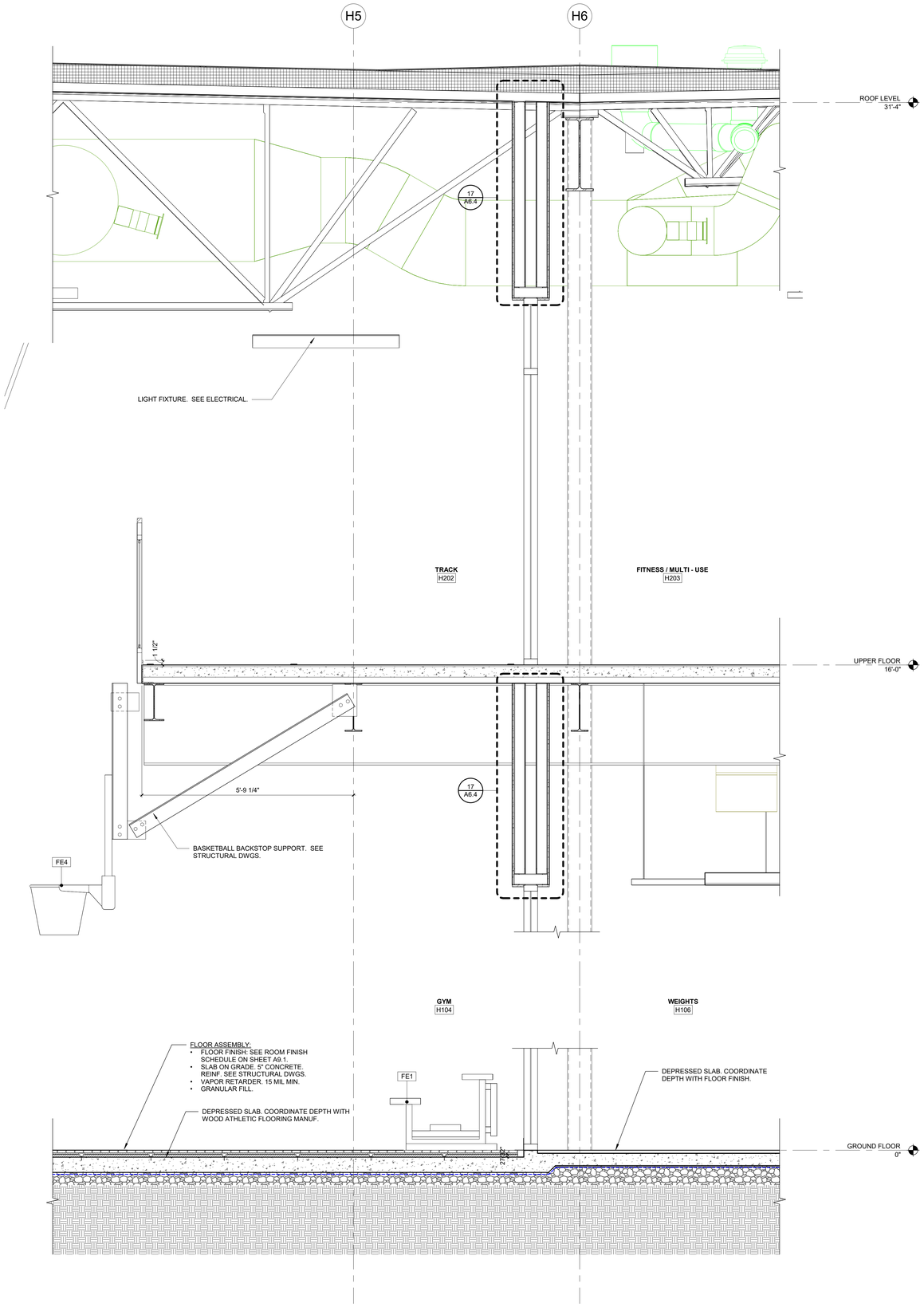
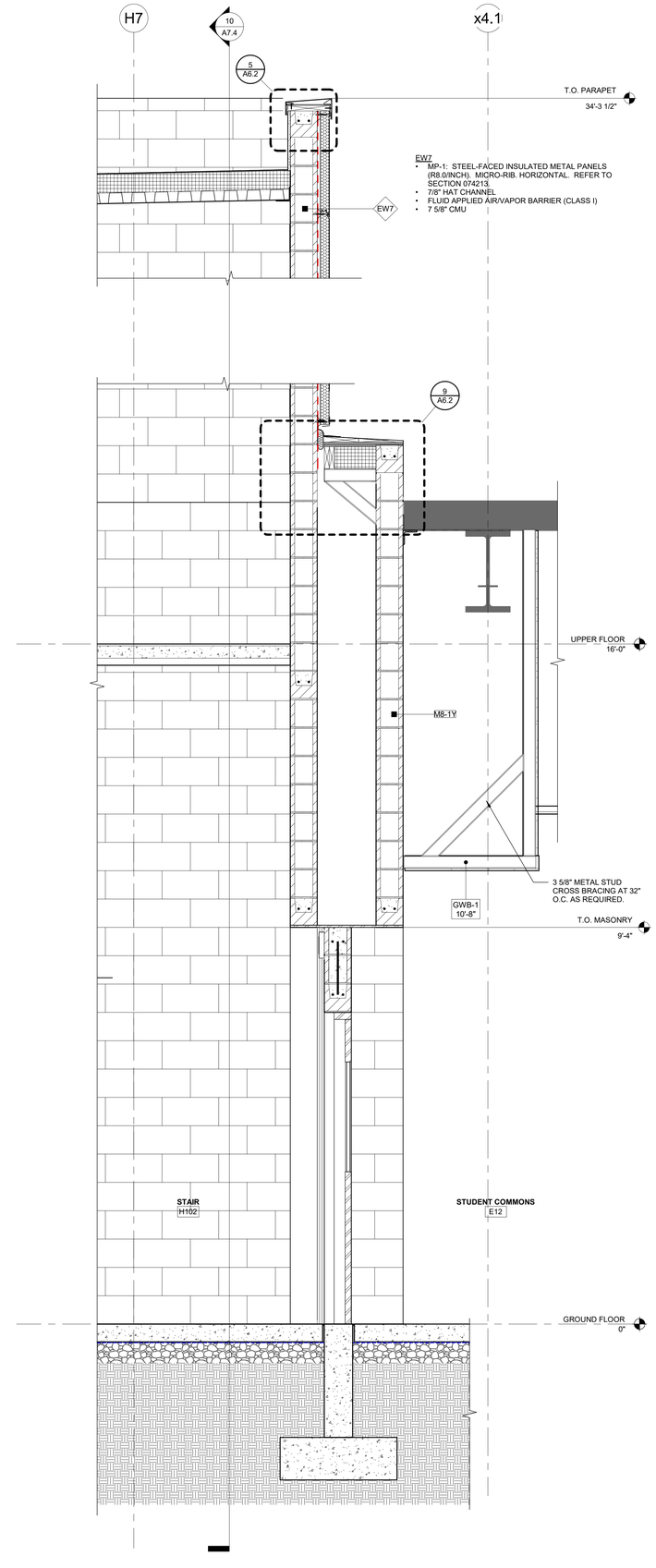
WALL SECTIONS

A5.9



25 \ SECTION INTERIOR GYM WALL @ STOREFRONT

SCALE: 3/4" = 1'-0"



5 \ SECTION EGRESS STAIR @ EXISTING BLDG

SCALE: 3/4" = 1'-0"

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WALL SECTIONS

A5.10

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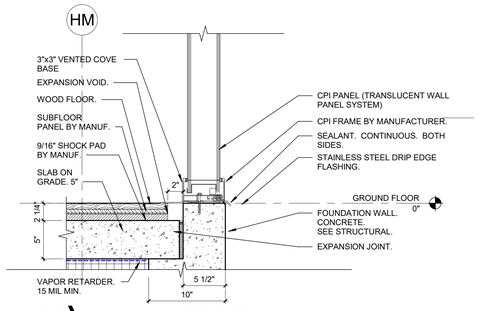
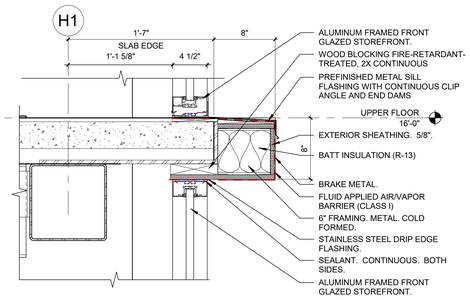
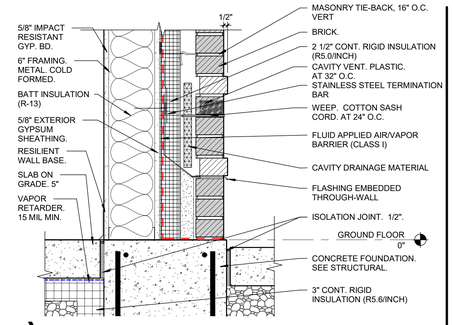


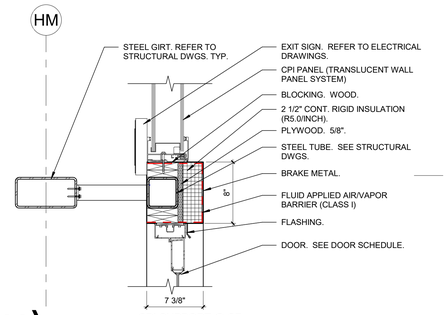
11 \ DETAIL CPI TO FOOTING
SCALE: 1 1/2" = 1'-0"



6 \ DETAIL SF SILL @ STOREFRONT
SCALE: 1 1/2" = 1'-0"



1 \ DETAIL EW1 WALL TO FOOTING
SCALE: 1 1/2" = 1'-0"



12 \ DETAIL CPI SUPPORT @ SF
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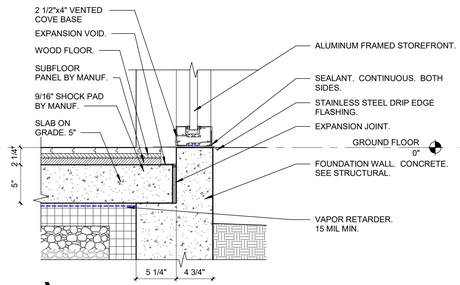

7 \ DETAIL SF @ FOOTING
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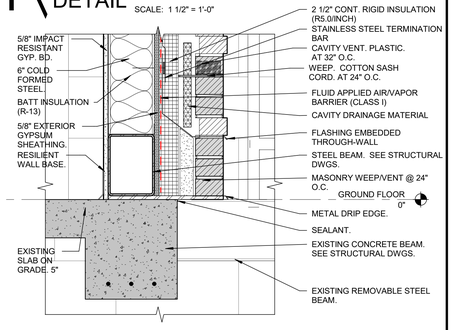
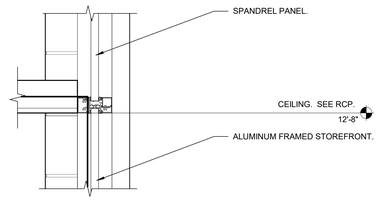
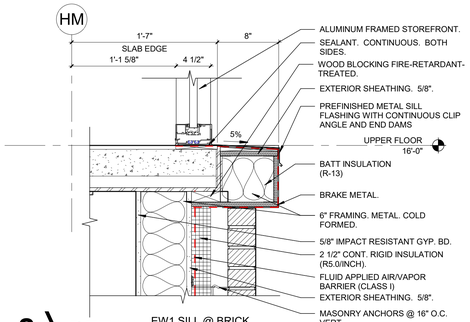


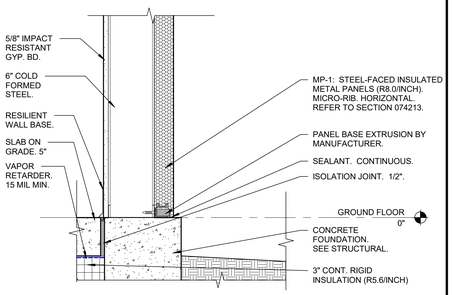
2 \ DETAIL EW2 WALL TO FOOTING
SCALE: 1 1/2" = 1'-0"



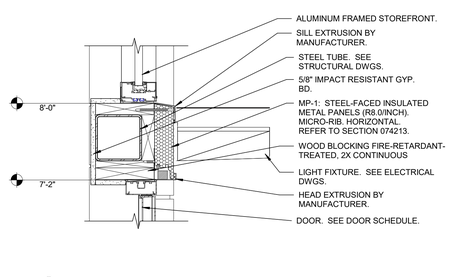
13 \ DETAIL STOREFRONT TO CEILING @ MS ENTRY
SCALE: 1 1/2" = 1'-0"



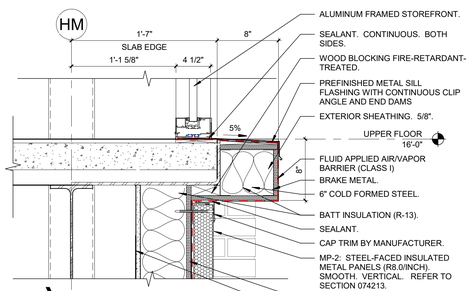
8 \ DETAIL EW1 SILL @ BRICK
SCALE: 1 1/2" = 1'-0"



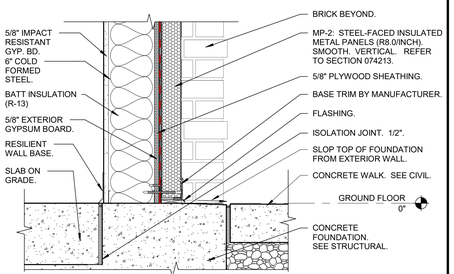
3 \ DETAIL EW3 WALL TO FOOTING
SCALE: 1 1/2" = 1'-0"



14 \ DETAIL STOREFRONT HEAD @ MS ENTRY
SCALE: 1 1/2" = 1'-0"



9 \ DETAIL EW8 SILL @ IWP
SCALE: 1 1/2" = 1'-0"



4 \ DETAIL EW8 TO FOOTING
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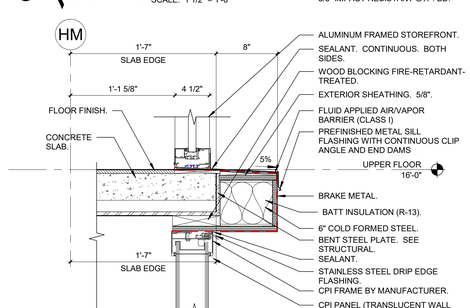
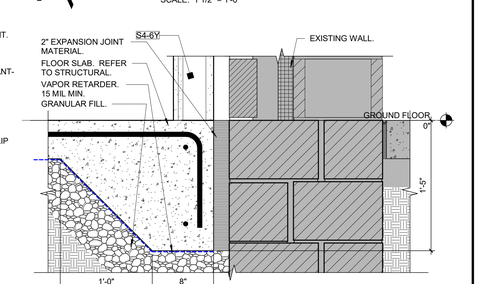


10 \ DETAIL SF SILL @ CPI
SCALE: 1 1/2" = 1'-0"



5 \ DETAIL SHAFT WALL @ THICKENED SLAB EDGE
SCALE: 1 1/2" = 1'-0"

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WALL SECTION DETAILS - EXTERIOR

A6.1

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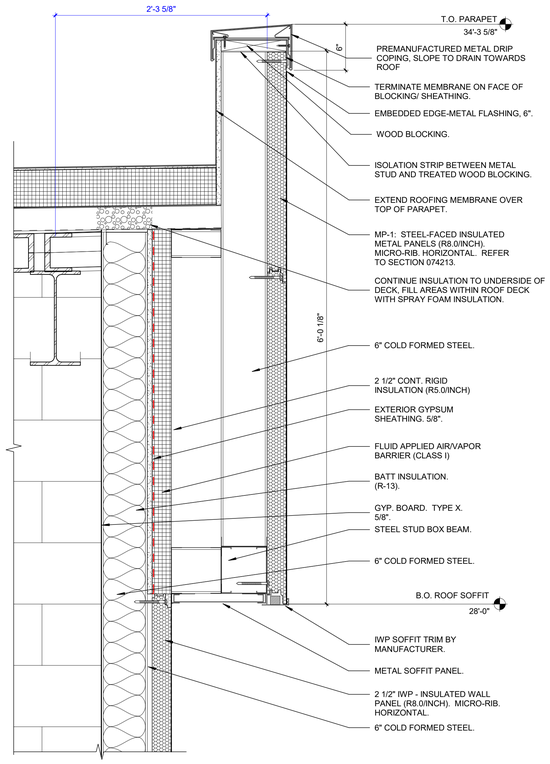
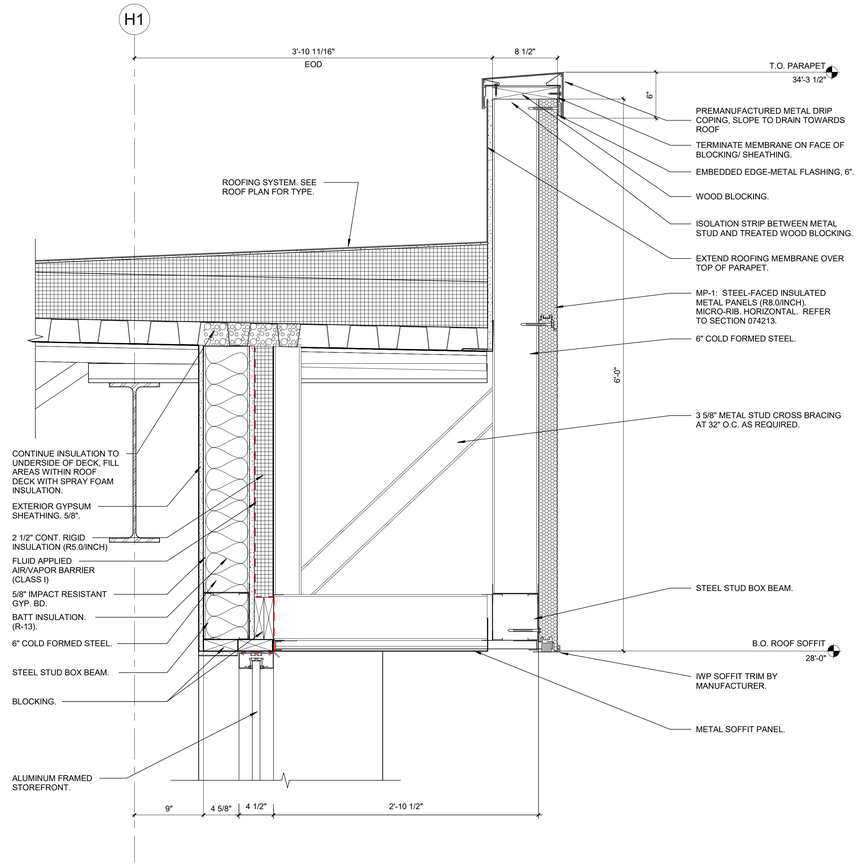
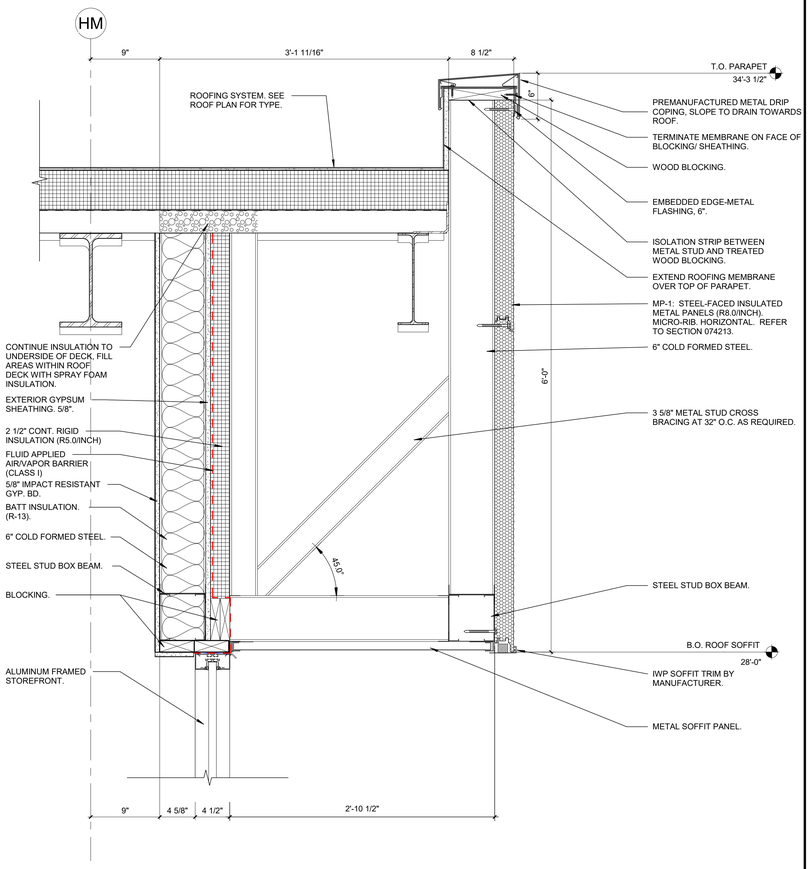


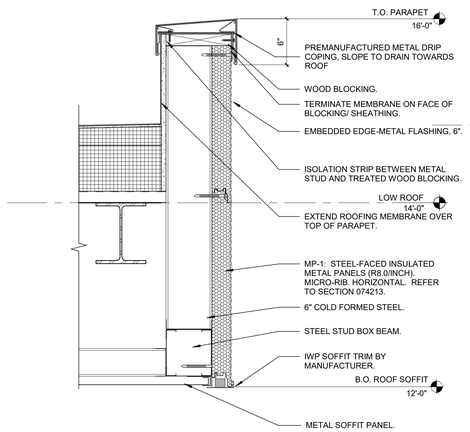
23 DETAIL PARAPET
SCALE: 1 1/2" = 1'-0"



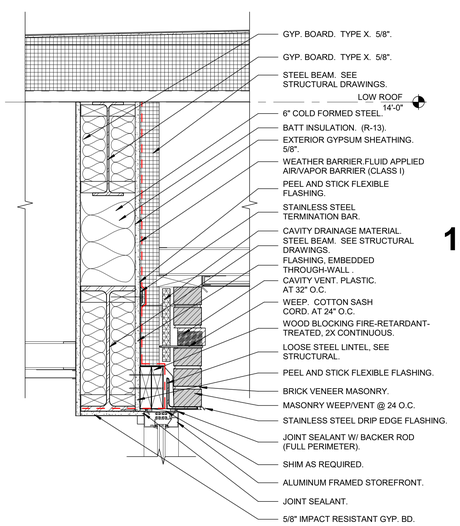
18 DETAIL TYPICAL HIGH PARAPET @ WEST
SCALE: 1 1/2" = 1'-0"



8 DETAIL TYPICAL HIGH PARAPET @ NORTH/SOUTH
SCALE: 1 1/2" = 1'-0"



25 DETAIL PARAPET @ HS ENTRY
SCALE: 1 1/2" = 1'-0"



20 DETAIL EW2 WALL TO SOFFIT @ HS ENTRY
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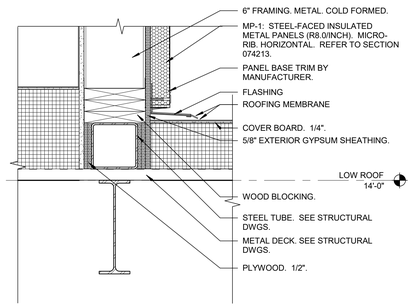
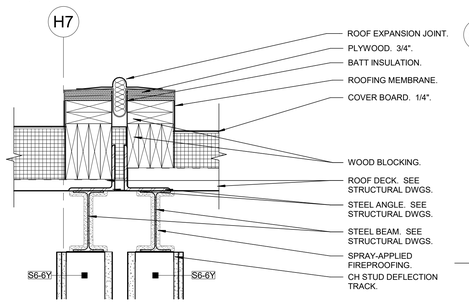
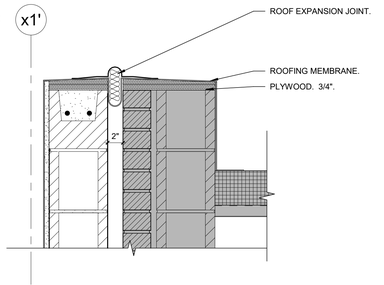


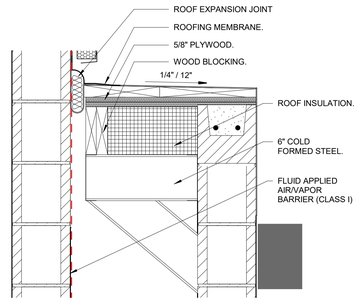
14 DETAIL STOREFRONT @ HS ENTRY
SCALE: 1 1/2" = 1'-0"



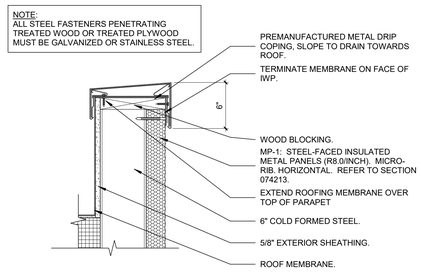
15 DETAIL ROOF CURB @ FIRE SEPERATION WALLS
SCALE: 1 1/2" = 1'-0"



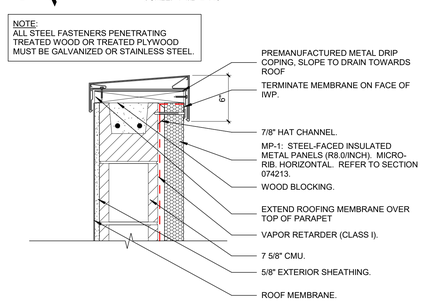
10 DETAIL PARAPET AT EXISTING BUILDING
SCALE: 1 1/2" = 1'-0"



9 DETAIL PARAPET @ EXISTING BUILDING AND EGRESS STAIR
SCALE: 1 1/2" = 1'-0"



4 DETAIL EW4 WALL PARAPET
SCALE: 1 1/2" = 1'-0"



5 DETAIL EW7 WALL PARAPET
SCALE: 1 1/2" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

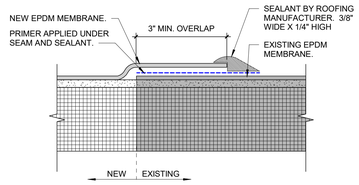
WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

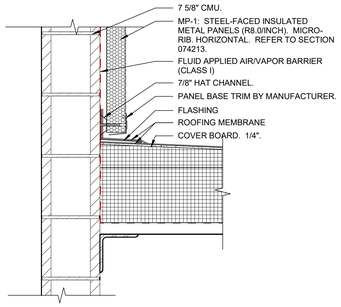
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

WALL SECTION DETAILS - ROOF

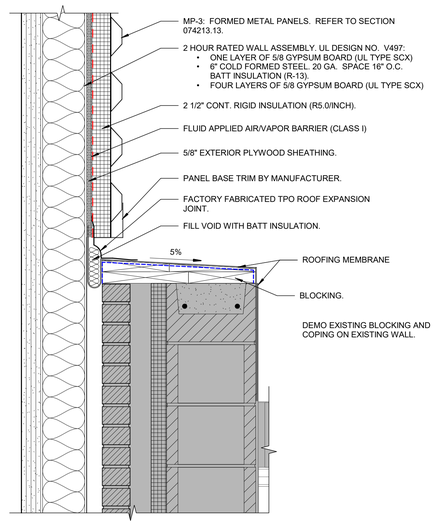
A6.2



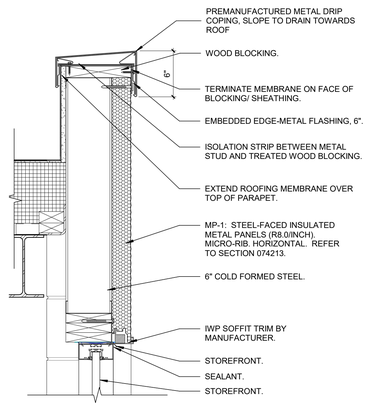
16 DETAIL NEW EPDM TO EXISTING EPDM TRANSITION
SCALE: 6" = 1'-0"



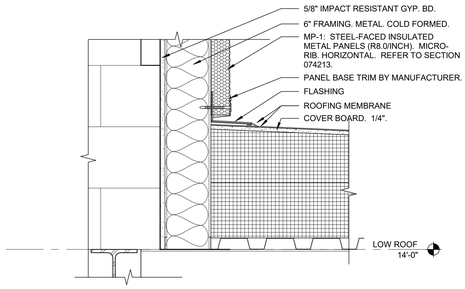
11 DETAIL IWP ON MASONRY WALL @ LOW ROOF
SCALE: 1 1/2" = 1'-0"



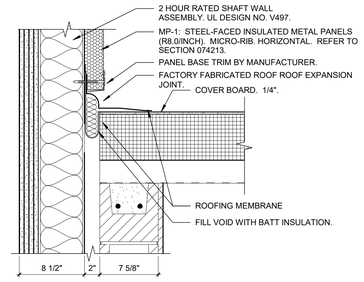
7 DETAIL METAL PANEL @ EXISTING LOW ROOF
SCALE: 1 1/2" = 1'-0"



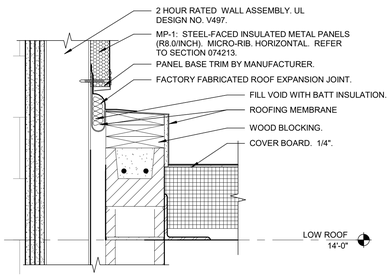
2 DETAIL PARAPET @ MS ENTRY
SCALE: 1 1/2" = 1'-0"



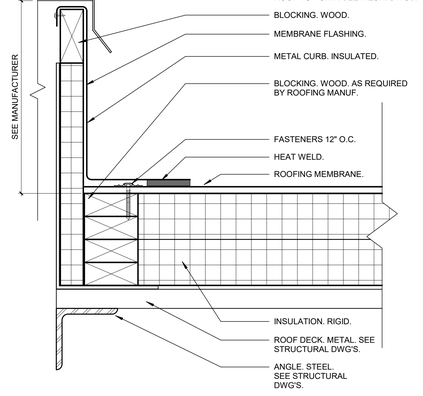
12 DETAIL IWP ON STUD WALL @ LOW ROOF
SCALE: 1 1/2" = 1'-0"



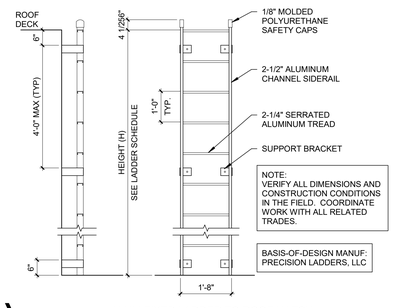
8 DETAIL IWP WITH EXPANSION JOINT @ LOW ROOF
SCALE: 1 1/2" = 1'-0"



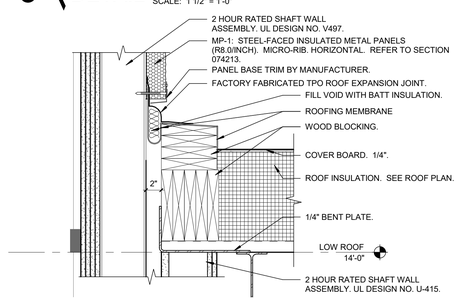
3 DETAIL IWP WITH EXPANSION JOINT @ H110
SCALE: 1 1/2" = 1'-0"



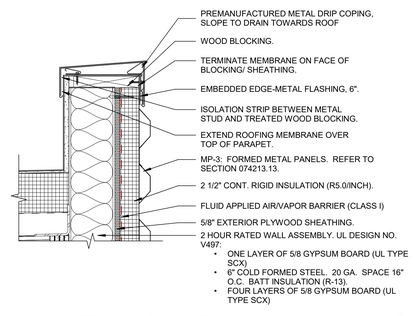
14 DETAIL R.T.U. CURB
SCALE: 3" = 1'-0"



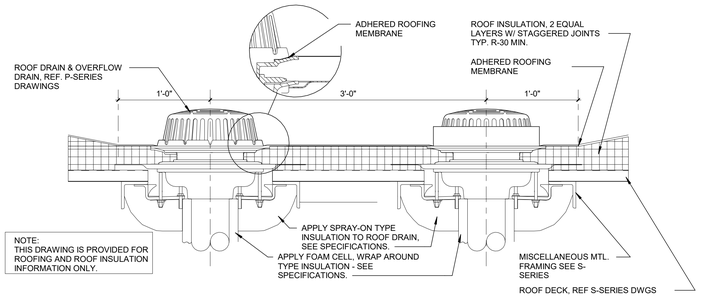
9 DETAIL ALUM FIXED LADDER TO ROOF HATCH
SCALE: 1/2" = 1'-0"



1 DETAIL IWP WITH EXPANSION JOINT @ H1108
SCALE: 1 1/2" = 1'-0"



15 DETAIL METAL PANEL @ PARAPET
SCALE: 1 1/2" = 1'-0"



10 DETAIL ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"

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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

WALL SECTION DETAILS - ROOF

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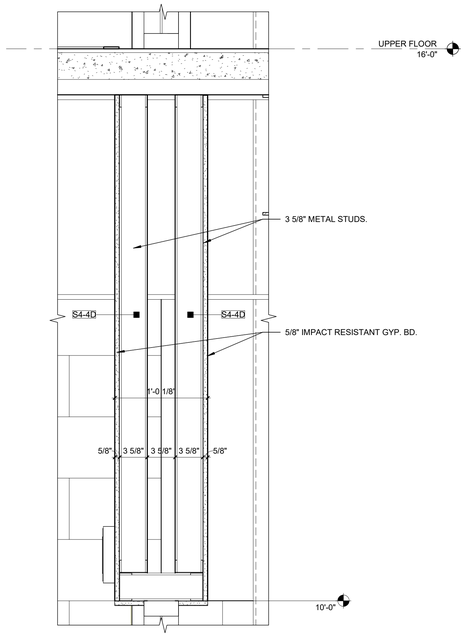
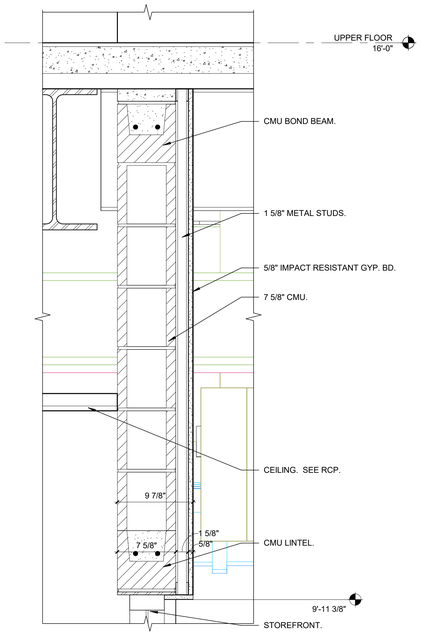
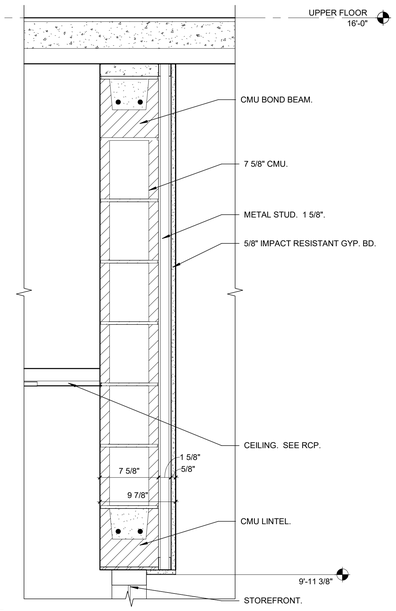


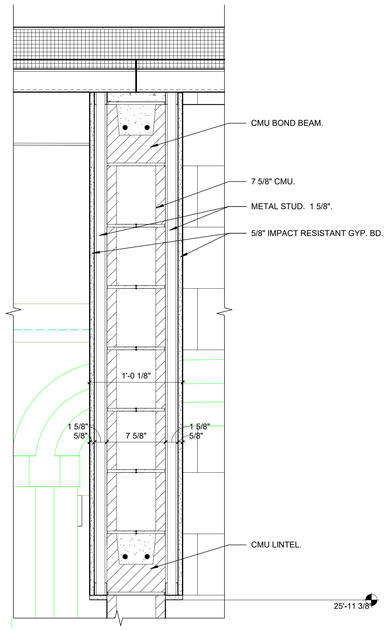
17 DETAIL STUD WALL ABOVE SF 12
SCALE: 1 1/2" = 1'-0"



12 DETAIL MASONRY WALL ABOVE SF 15
SCALE: 1 1/2" = 1'-0"



7 DETAIL MASONRY WALL ABOVE SF 11 & SF 13
SCALE: 1 1/2" = 1'-0"



2 DETAIL MASONRY WALL ABOVE H204A & H204B
SCALE: 1 1/2" = 1'-0"

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8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

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REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

WALL SECTION
DETAILS - INTERIOR

A6.4

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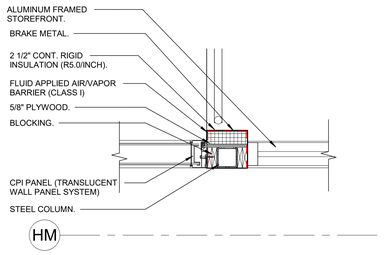
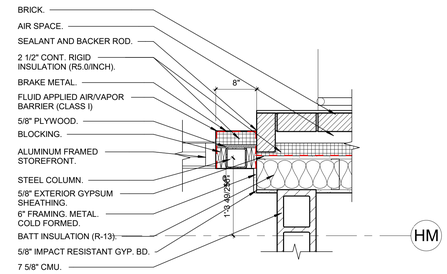
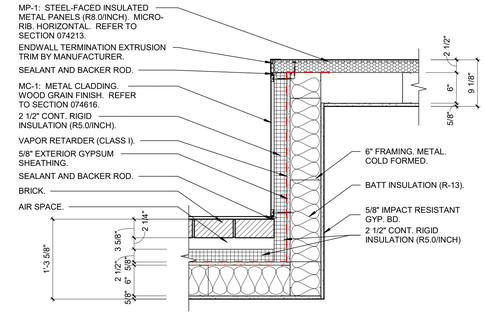


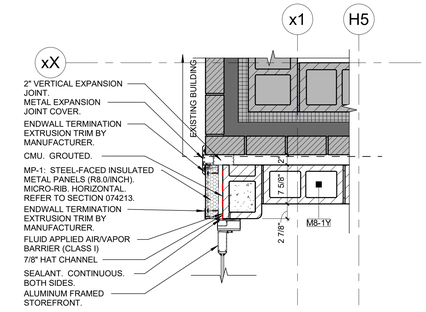
16\ ENL PLAN WEST JAMB @ SF18
SCALE: 1" = 1'-0"



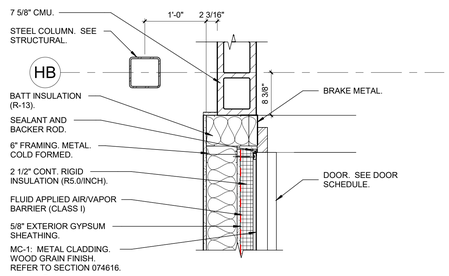
11\ ENL PLAN EAST JAMB @ SF18
SCALE: 1" = 1'-0"



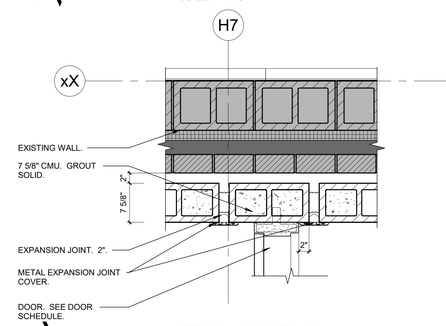
6\ ENL PLAN METAL PANEL TO IWP TRANSITION @ STO. H103
SCALE: 1" = 1'-0"



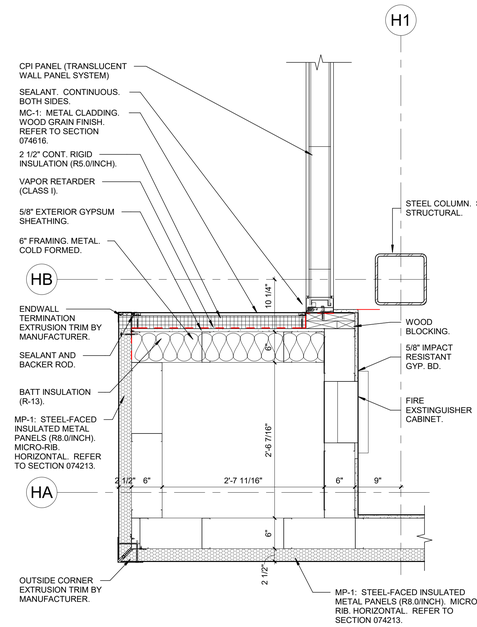
1\ ENL PLAN MS VESTIBULE @ EXISTING BUILDING
SCALE: 1" = 1'-0"



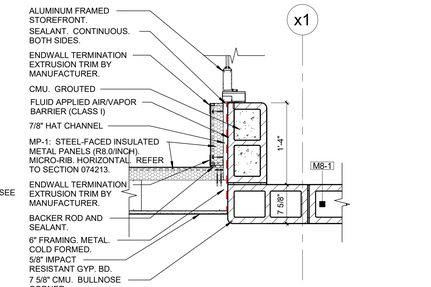
17\ ENL PLAN METAL PANEL @ DOOR H117A
SCALE: 1" = 1'-0"



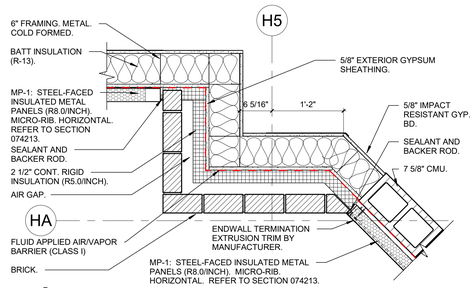
12\ ENL PLAN FIRE WALL @ DOOR H101A
SCALE: 1" = 1'-0"



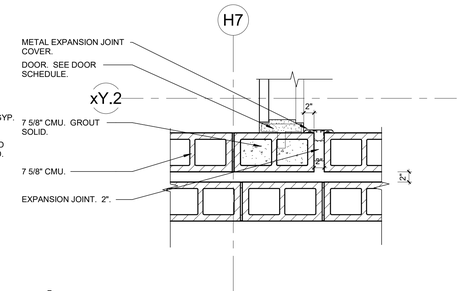
8\ ENL PLAN METAL PANEL TO IWP TRANSITION @ GYM
SCALE: 1" = 1'-0"



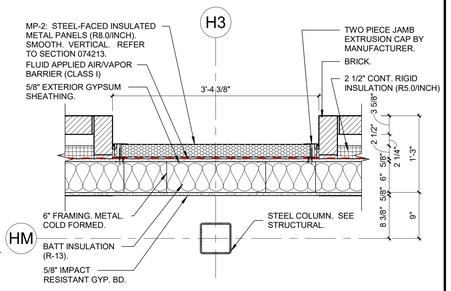
2\ ENL PLAN STUD WALL TO CMU TRANSITION @ MS ENTRY
SCALE: 1" = 1'-0"



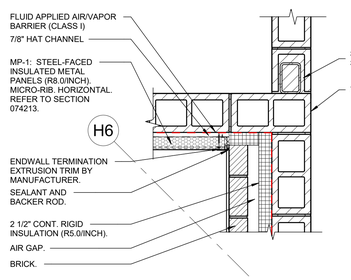
18\ ENL PLAN BRICK ON STUD TO IWP ON MASONRY @ GYM
SCALE: 1" = 1'-0"



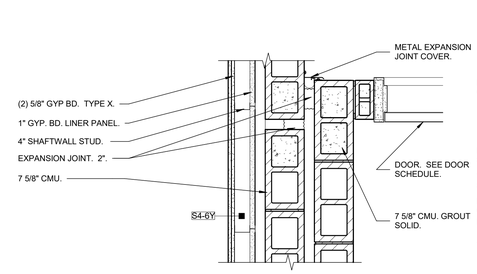
13\ ENL PLAN FIRE WALL @ DOOR H101B
SCALE: 1" = 1'-0"



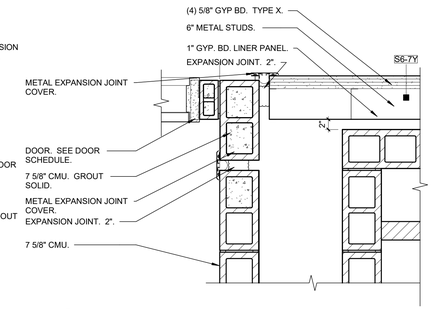
3\ ENL PLAN IWP @ BRICK EXTERIOR WALL
SCALE: 1" = 1'-0"



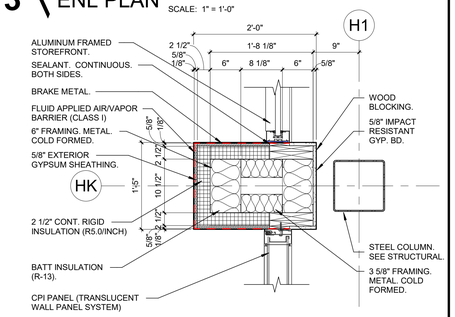
19\ ENL PLAN IWP TO BRICK TRANSITION @ MAIN LOBBY H107
SCALE: 1" = 1'-0"



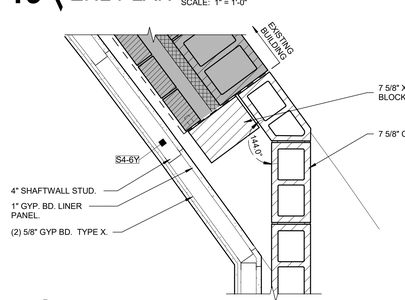
14\ DETAIL FIRE WALL @ DOOR H108A
SCALE: 1" = 1'-0"



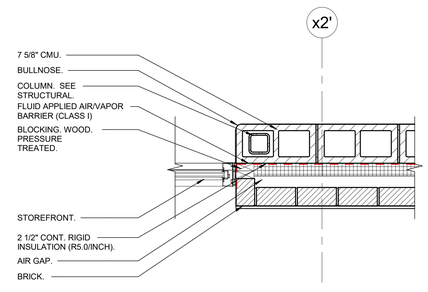
9\ ENL PLAN FIRE WALL @ DOOR H108B
SCALE: 1" = 1'-0"



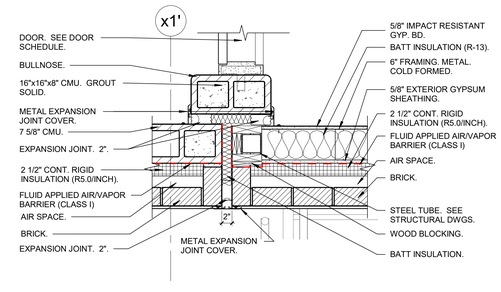
4\ ENL PLAN METAL PANEL PILASTER
SCALE: 1" = 1'-0"



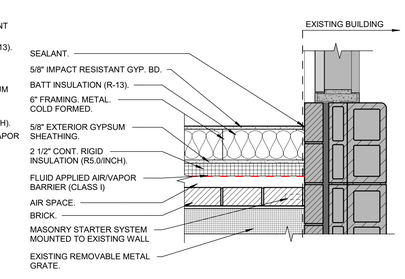
20\ ENL PLAN NEW MASONRY WALL TO EXISTING EXTERIOR WALL
SCALE: 1" = 1'-0"



15\ ENL PLAN SF TO BRICK TRANSITION @ MAIN VEST. H107
SCALE: 1" = 1'-0"



10\ ENL PLAN BRICK TRANSITION @ MAIN VEST. H107 & CIRC. H114
SCALE: 1" = 1'-0"



5\ ENL PLAN STUD MASONRY WALL TO EXISTING @ H114
SCALE: 1" = 1'-0"

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8869 COUNTY ROAD 250 E
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WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

PLAN DETAILS

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PLUMBING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	COUNT
A	TOILET WALL HUNG ADA HEIGHT	2
A1	TOILET WALL HUNG STANDARD HEIGHT	1
B	URINAL WALL HUNG ADA HEIGHT	1
C	SINK LAY-IN 19" DIAMETER ROUND	4

LOCKER SCHEDULE

TYPE MARK	DESCRIPTION	HEIGHT	WIDTH	DEPTH	COUNT
2T-A	LOCKERS 2 TIER ADA	60" H (ADA)	1'-0"	1'-0"	4
2T-A1	LOCKERS 2 TIER	60" H	1'-0"	1'-0"	52

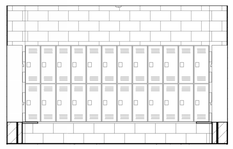
BENCH SCHEDULE

TYPE MARK	DIMENSIONS	DESCRIPTION	COUNT
V	42"L x 20"D x 18"H	ADA CHANGING BENCH	2

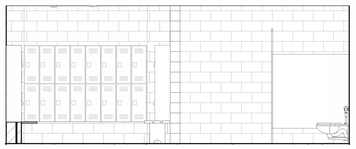
TOILET ACCESSORIES SCHEDULE

TYPE MARK	DESCRIPTION	COUNT
D	42" GRAB BAR WITH 18" VERTICAL GRAB BAR	2
E	36" HORIZONTAL GRAB BAR	2
F	TOILET PAPER DISPENSER	3
G	SANITARY NAPKIN DISPOSAL	2
J	COAT HOOK	2
K	LIQUID SOAP DISPENSER	4
M1	SURFACE MOUNTED COMBINATION TOWEL/WASTE UNIT	2
N	30"Wx60"H MIRROR	4

COUNTS IN SCHEDULES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL QUANTITIES.



22\ ELEVATION H110 EAST
SCALE: 1/4" = 1'-0"



17\ ELEVATION H110 SOUTH
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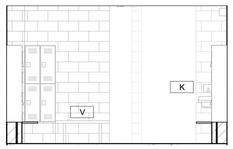
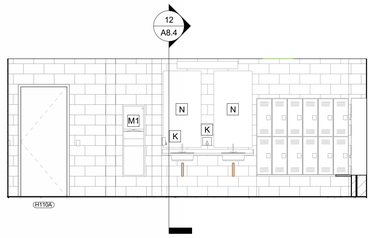


12\ ELEVATION H110 WEST
SCALE: 1/4" = 1'-0"



7\ ELEVATION H110 NORTH
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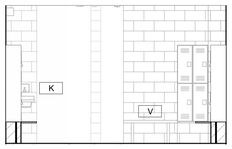
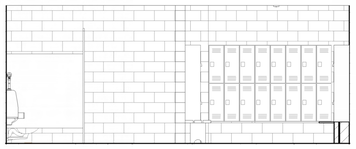
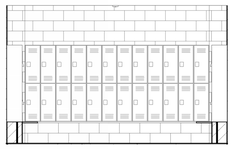


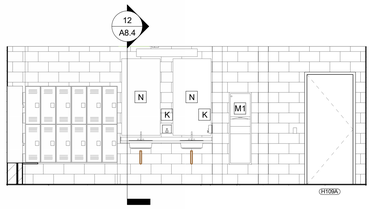
23\ ELEVATION H109 EAST
SCALE: 1/4" = 1'-0"



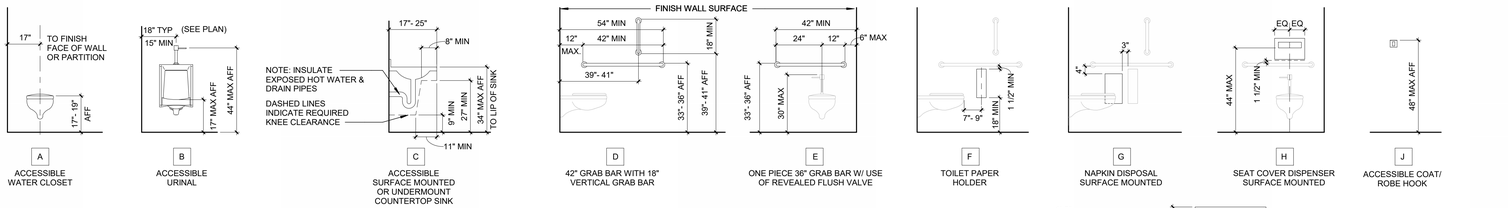
18\ ELEVATION H109 SOUTH
SCALE: 1/4" = 1'-0"



13\ ELEVATION H109 WEST
SCALE: 1/4" = 1'-0"



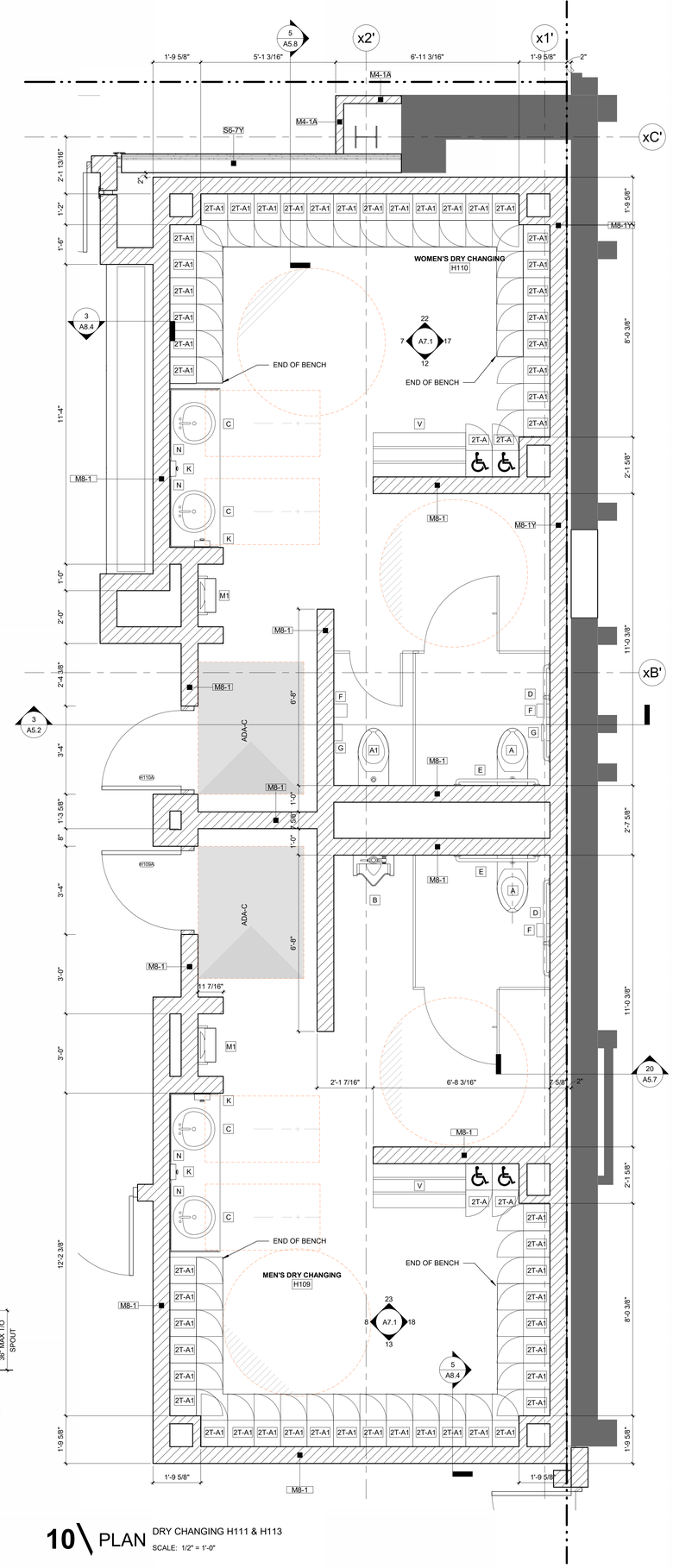
8\ ELEVATION H109 NORTH
SCALE: 1/4" = 1'-0"



NOTES:

1. PROVIDE BLOCKING AS REQUIRED FOR MOUNTING ACCESSORIES
2. EQUIPMENT SHOWN IN THE MOUNTING HEIGHT LEGEND MAY OR MAY NOT BE USED IN THE CONSTRUCTION OF THIS PROJECT. THE ABOVE LEGEND REPRESENTS A MASTER LIST OF TYPICAL EQUIPMENT COMPILED BY THE ARCHITECT.
3. MOUNT EQUIPMENT AT HEIGHTS INDICATED UNLESS OTHERWISE NOTED
4. REFER TO THE TOILET AND BATH ACCESSORIES SCHEDULE IN THE SPECIFICATIONS.
5. COMPLIANCE WITH ADA FOR INSTALLATION OF ALL THE ACCESSORIES AND EQUIPMENT IS RESPONSIBILITY OF THE CONTRACTOR.

25\ PLAN TOILET ACCESSORY LEGEND
SCALE: 3/8" = 1'-0"



10\ PLAN DRY CHANGING H111 & H113
SCALE: 1/2" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

NO.	DATE	REVISIONS DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

ENLARGED TOILET PLANS

A7.1

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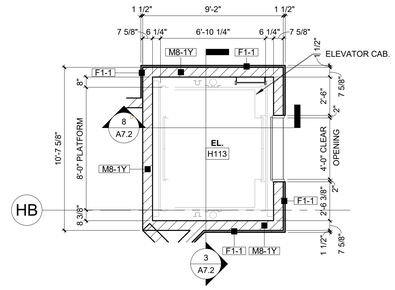
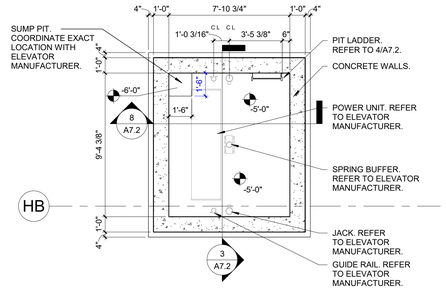


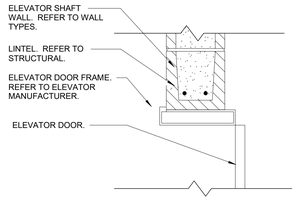
6 \ ENL PLAN EL H113

SCALE: 1/4" = 1'-0"



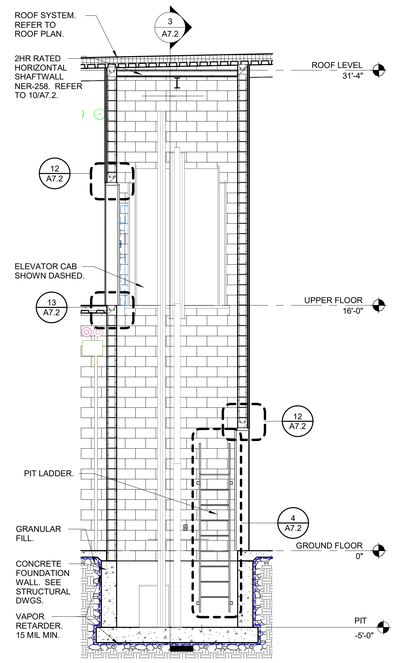
1 \ PLAN EL H113 - PIT PLAN

SCALE: 1/4" = 1'-0"



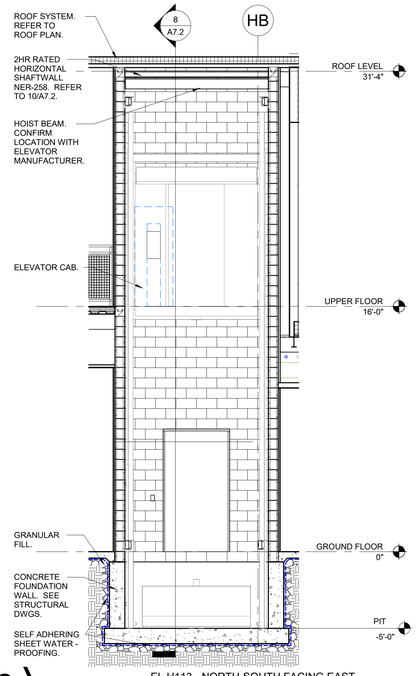
12 \ DETAIL ELEVATOR DOOR HEAD

SCALE: 1 1/2" = 1'-0"



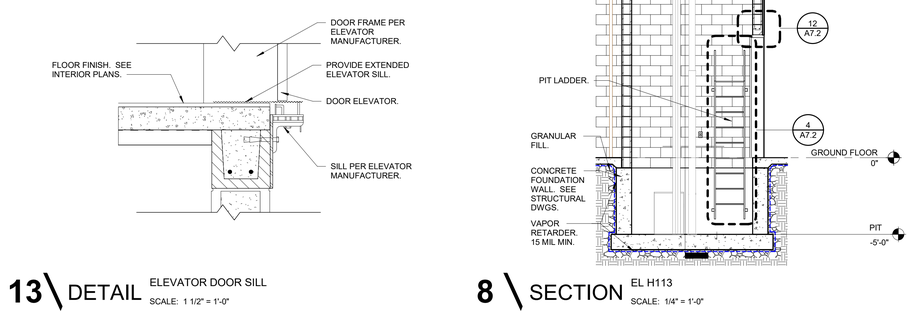
8 \ SECTION EL H113

SCALE: 1/4" = 1'-0"



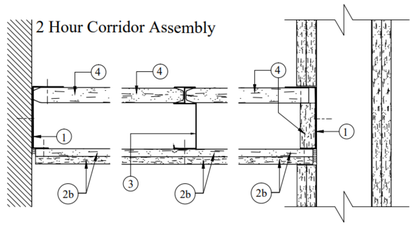
3 \ SECTION EL H113 - NORTH-SOUTH FACING EAST

SCALE: 1/4" = 1'-0"



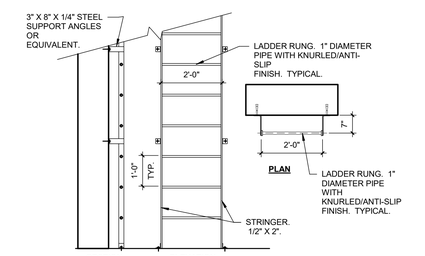
13 \ DETAIL ELEVATOR DOOR SILL

SCALE: 1 1/2" = 1'-0"



1. A minimum 2-1/2" deep 24 gauge J-runner attached horizontally to perimeter or boundary walls with a power actuated fasteners.
2. Gypsum Wall
   a. For a one (1) hour assembly: Attach one (1) layer of 5/8" thick SHEETROCK® Brand FIRECODE® C Core Gypsum (Type C), to the underside of the "Corridor Ceiling" of the C-H stud and the perimeter J-runners. Use 1" long Type S screws that are spaced 12" o.c. in the field and at the edges.
   b. For a two (2) hour assembly: Attached two (2) layers of minimum 1/2" thick SHEETROCK® Brand FIRECODE® C Core Gypsum Panels (Type C), to the underside of the "Corridor Ceiling" of the C-H stud and the perimeter J-For the BASE layer, use a 1" long Type S screw that is spaced 24" o.c. along the perimeter and the edges. The FACE layer should be applied with a 1-5/8" long Type S screw that is spaced 12" o.c. in the field and perimeter. All joints must be staggered a minimum of 24" o.c. from the adjacent layer.
3. Install the C-H studs perpendicular to the J-runner spaced 24" o.c. with the C-section of the C-H stud facing downward towards the corridor side of the assembly with two (2) screws a minimum 1/2" long Type S-12 screws, one on each side.
4. 1" thick SHEETROCK® Brand Gypsum Liner Panel - Friction-fitted in "H" portion of C-H studs.

10 \ DETAIL 2HR RATED HORIZONTAL SHAFTWALL NER-258



NOTE: STEEL LADDERS TO BE COMPOSED OF 1/2" X 2" STRINGERS WITH 1" DIAMETER LADDER RUNGS WITH ANTI-SLIP FINISH AT 12" O.C. VERTICALLY. MOUNTED 8" OFF OF WALL WITH TWO 3" X 8" X 1/4" ANGLES OR EQUIVALENT WELDED TO STRINGERS TOP, MID-POINT, AND BOTTOM. PROVIDE ADDITIONAL SUPPORTS AT TALL LADDERS AS REQUIRED. ANCHORED TO WALL WITH 1/2" DIAMETER STEEL EXPANSION BOLTS. CENTER LOCATION AT CENTER OF ROOF ACCESS HATCH WHERE APPLICABLE.

4 \ DETAIL PIT LADDER

SCALE: 1/2" = 1'-0"

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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

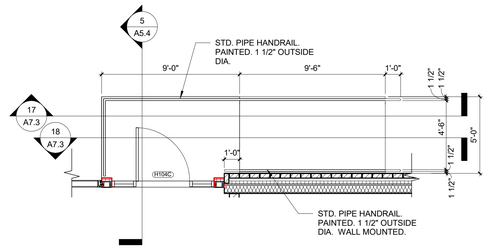
WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

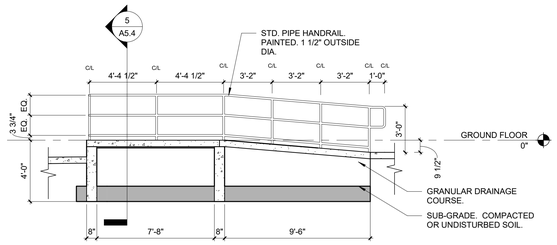
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

ELEVATOR PLANS & DETAILS

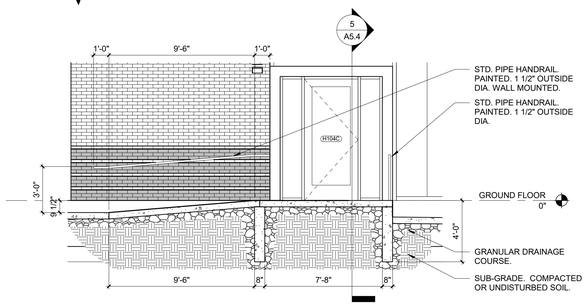
A7.2



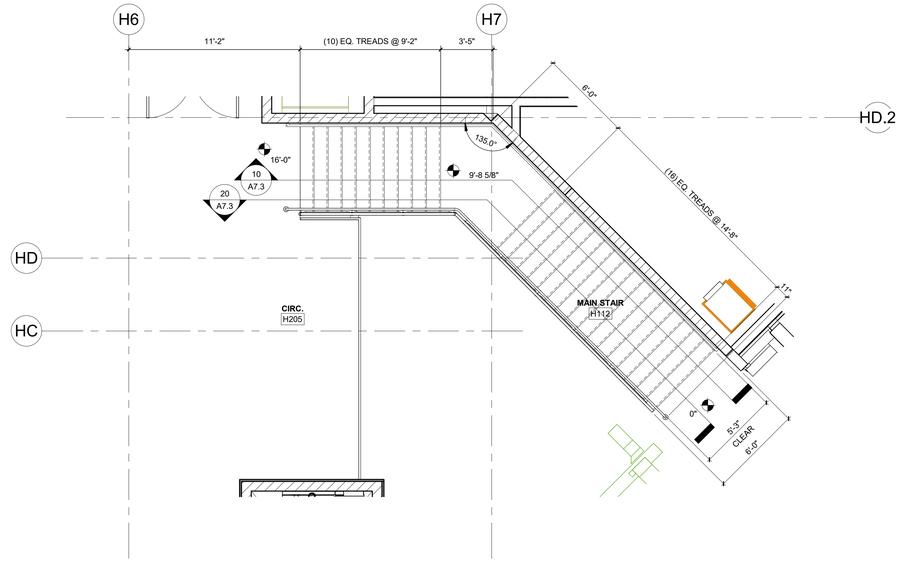
16\ PLAN EXTERIOR RAMP @ DOOR H114C
SCALE: 1/4" = 1'-0"



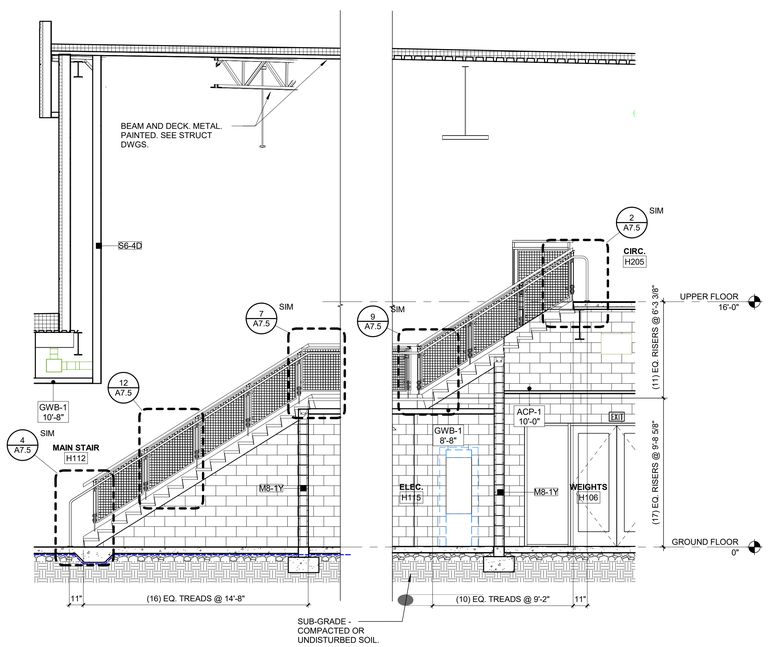
17\ SECTION EXTERIOR RAMP @ DOOR H114C
SCALE: 1/4" = 1'-0"



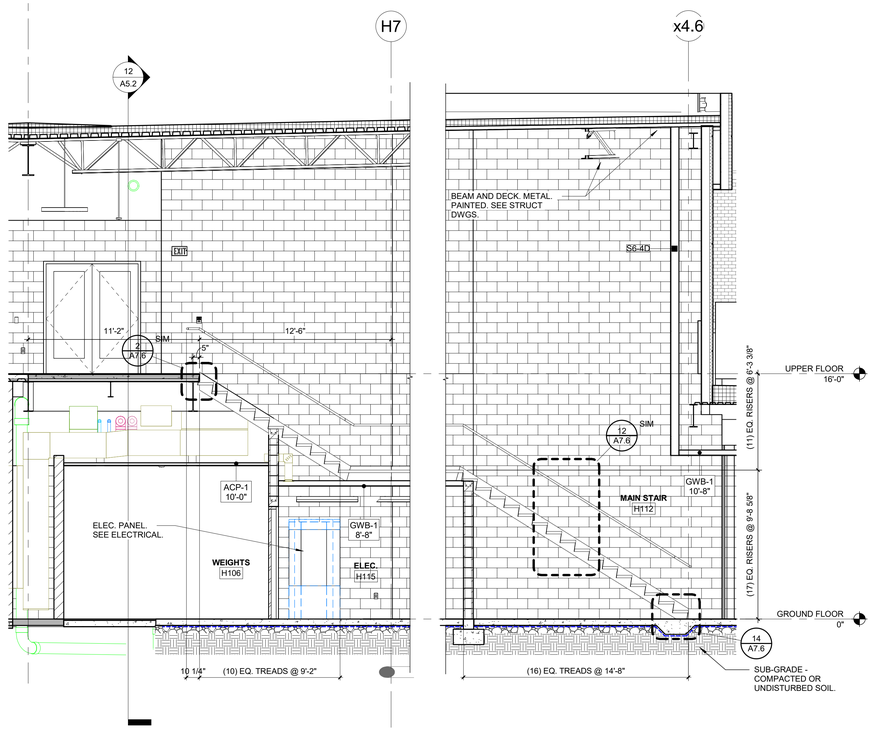
18\ SECTION EXTERIOR STAIR @ DOOR H114C1
SCALE: 1/4" = 1'-0"



7\ PLAN STAIR H112 - UPPER FLOOR
SCALE: 1/4" = 1'-0"



20\ SECTION STAIR H112 - NORTH-SOUTH FACING WEST
SCALE: 1/4" = 1'-0"



10\ SECTION STAIR H112 - NORTH-SOUTH FACING EAST
SCALE: 1/4" = 1'-0"

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CHK	TAS

STAIR PLANS & SECTIONS

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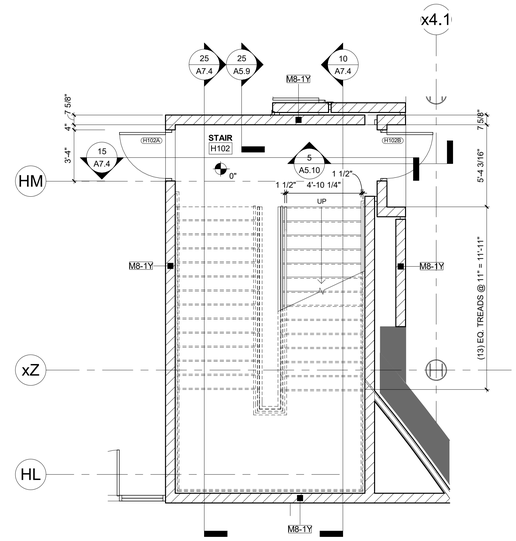
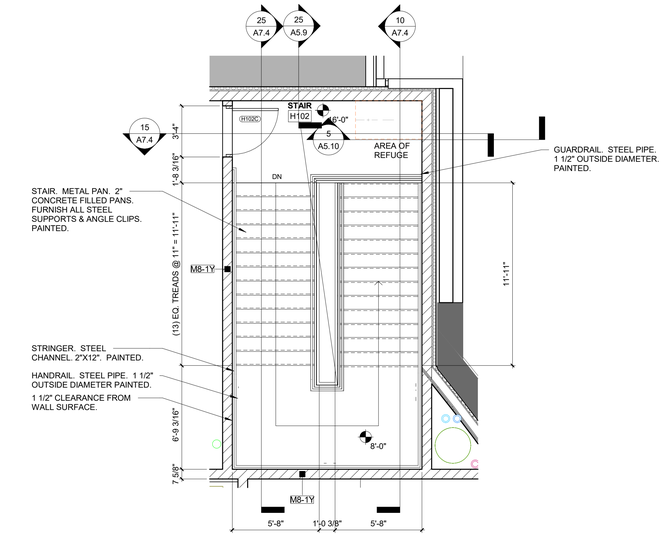
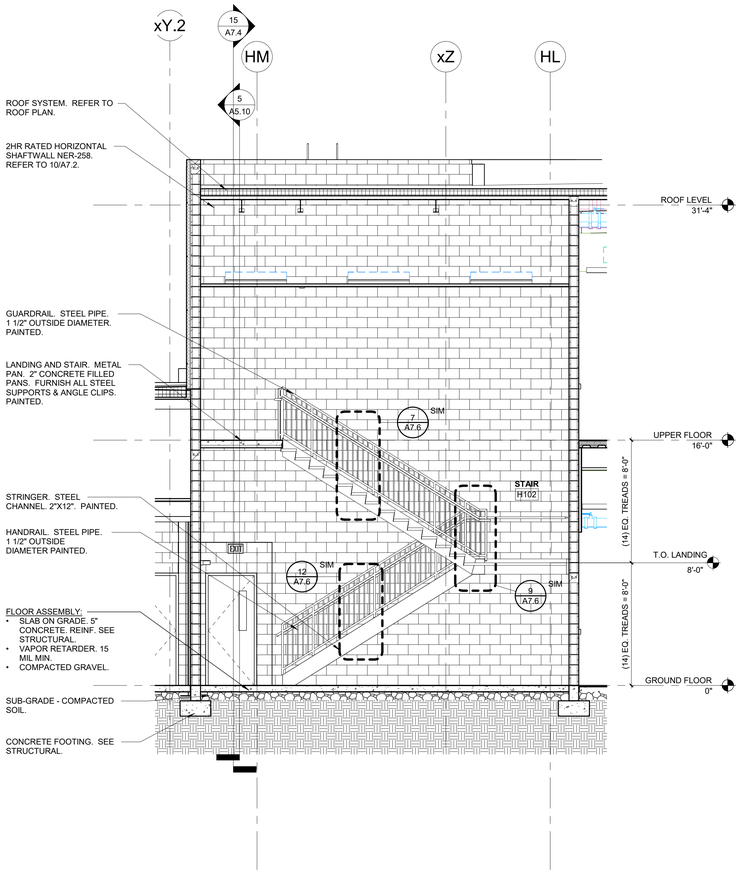


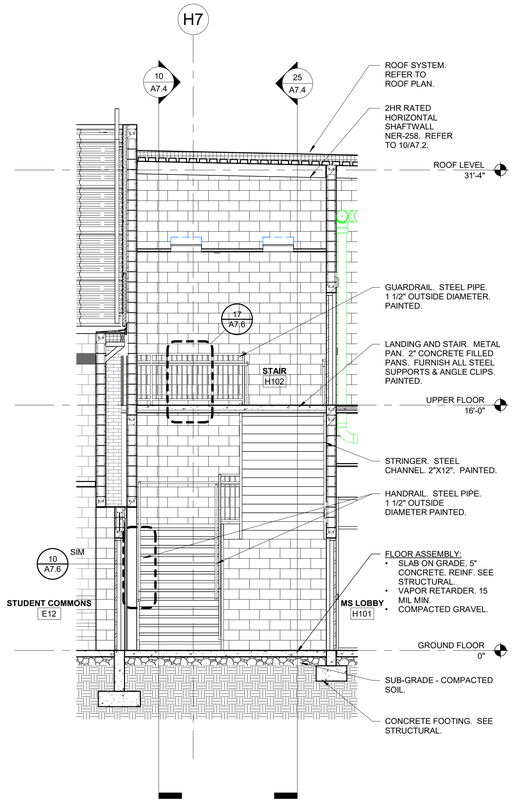
12\ ENL PLAN STAIR H102 -GROUND FLOOR
SCALE: 1/4" = 1'-0"



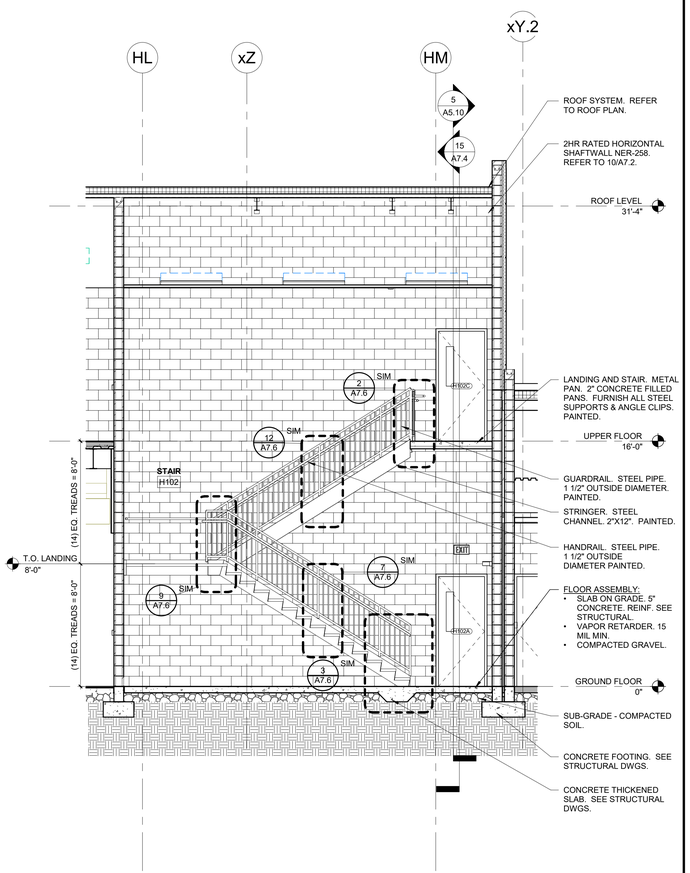
2\ ENL PLAN STAIR H102 - UPPER FLOOR
SCALE: 1/4" = 1'-0"



25\ SECTION STAIR H102 - NORTH-SOUTH FACING EAST
SCALE: 1/4" = 1'-0"



15\ SECTION STAIR H102 - EAST-WEST FACING SOUTH
SCALE: 1/4" = 1'-0"



10\ SECTION STAIR H102 - NORTH-SOUTH FACING WEST
SCALE: 1/4" = 1'-0"

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WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

STAIR PLANS & SECTIONS

A7.4

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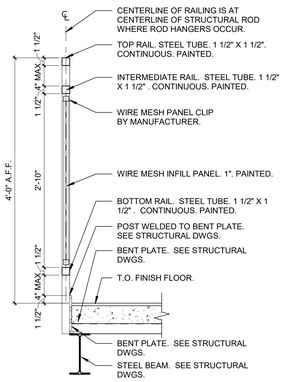

22 DETAIL DECORATIVE RAILING SECTION
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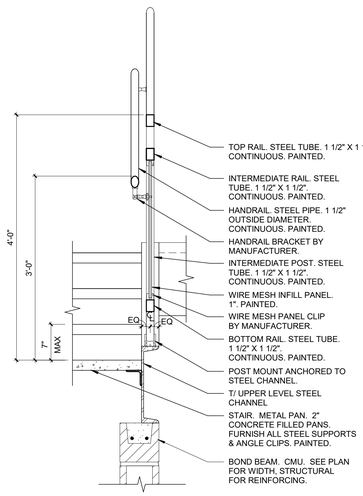
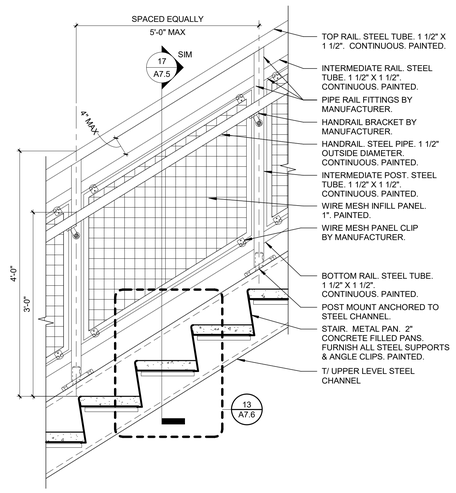
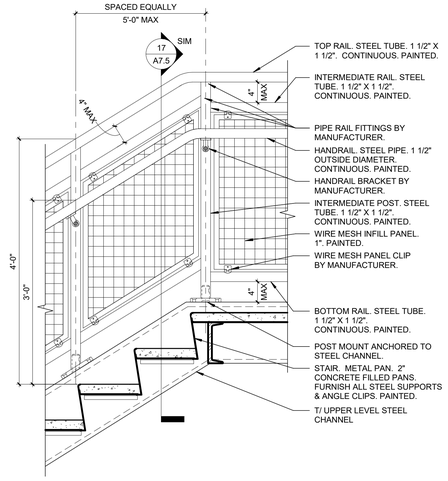


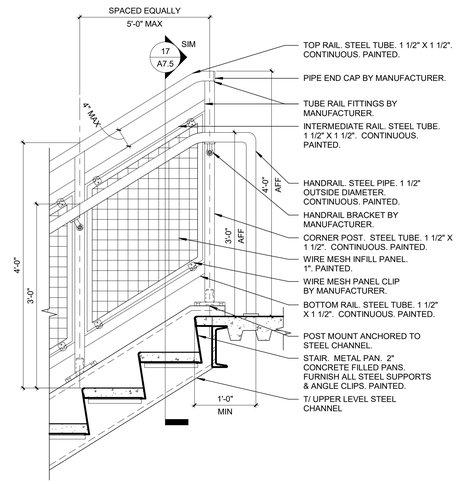
17 DETAIL METAL PAN STAIR AT RAILING
SCALE: 1" = 1'-0"



12 DETAIL METAL PAN STAIR WITH GUARD
SCALE: 1" = 1'-0"



7 DETAIL 055113-02 STAIR AT LANDING
SCALE: 1" = 1'-0"



2 DETAIL 055113-01 STAIR AT TOP LANDING
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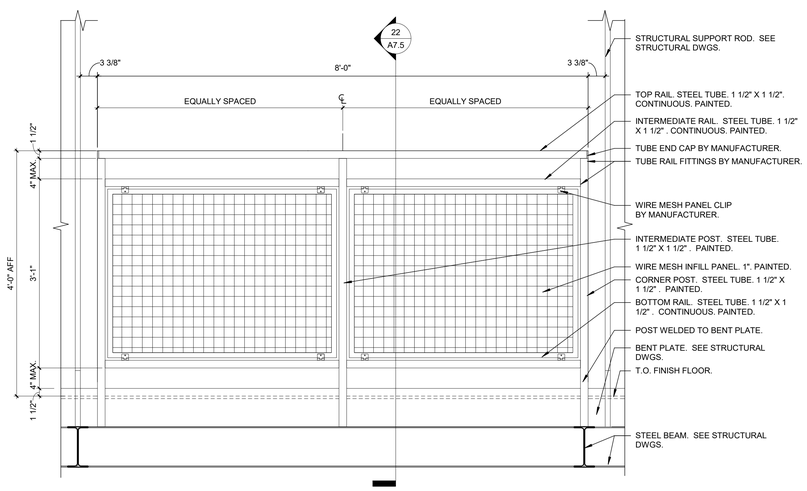
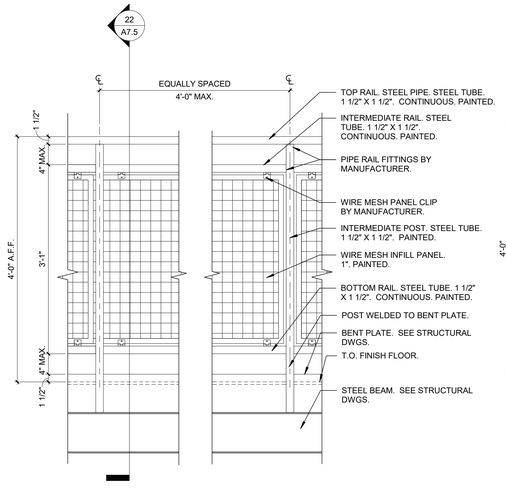
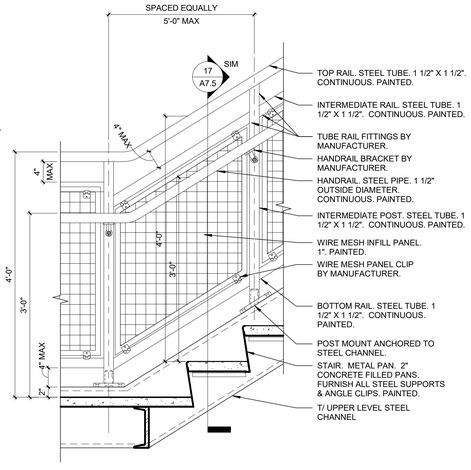


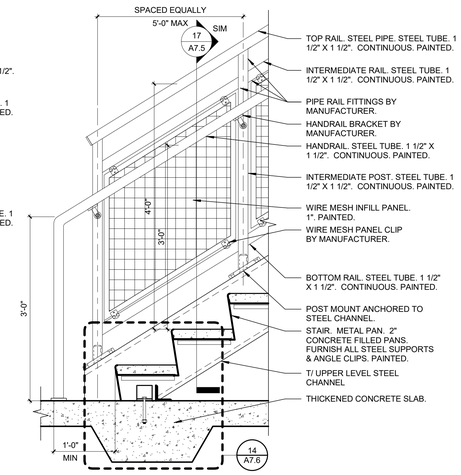
24 DETAIL DECORATIVE RAILING BETWEEN STRUCTURAL RODS
SCALE: 1" = 1'-0"



14 DETAIL TYPICAL DECORATIVE RAILING
SCALE: 1" = 1'-0"



9 DETAIL METAL PAN STIAR WITH
SCALE: 1" = 1'-0"



4 DETAIL METAL PAN STIAR WITH
SCALE: 1" = 1'-0"

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ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

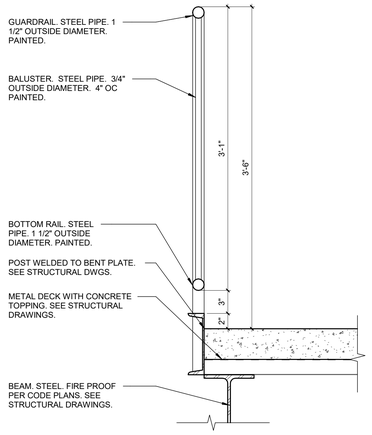
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

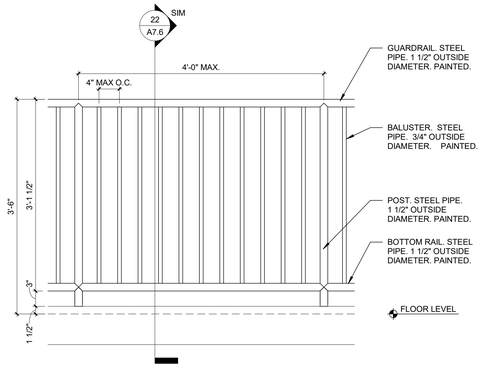
STAIR AND RAILING DETAILS

A7.5

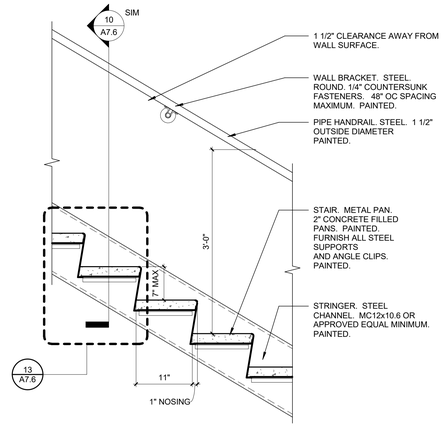
2/3/2025 9:15:20 AM



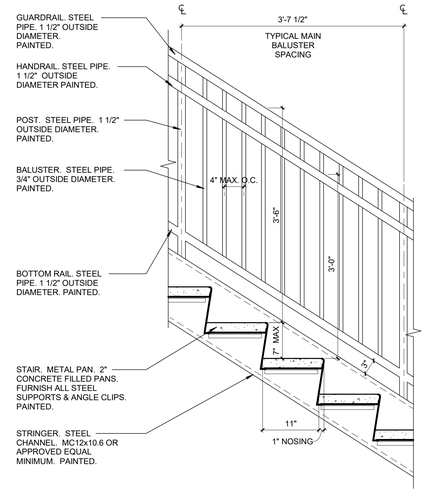
22 DETAIL METAL PAN STAIR TYPICAL GUARDRAIL AT SLAB EDGE
SCALE: 1 1/2" = 1'-0"



17 DETAIL METAL PAN STAIR TYPICAL GUARDRAIL
SCALE: 1" = 1'-0"



12 DETAIL METAL PAN STAIR WITH RAILING AT WALL
SCALE: 1" = 1'-0"



7 DETAIL METAL PAN STAIR WITH GUARD
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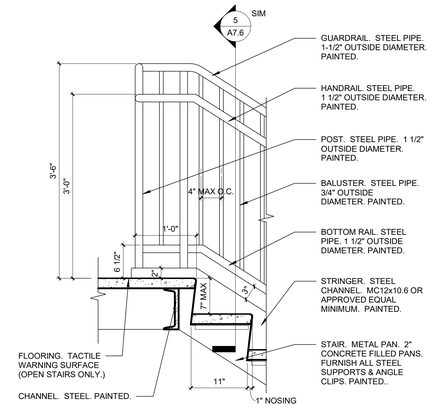

2 DETAIL METAL PAN STAIR AT TOP LANDING
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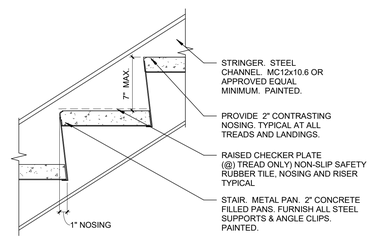
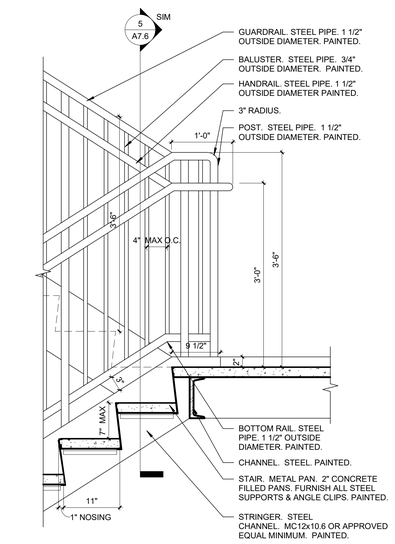


13 DETAIL METAL PAN STAIR DETAIL
SCALE: 1 1/2" = 1'-0"



9 DETAIL METAL PAN STAIR AT INTERMEDIATE LANDING
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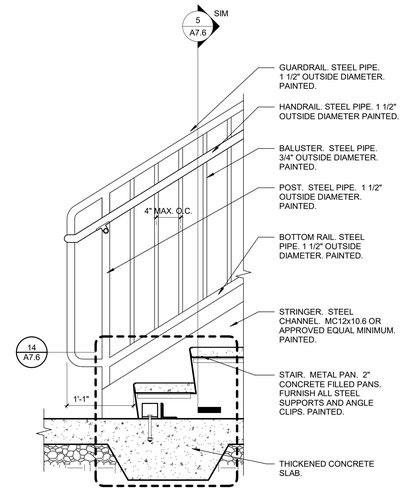
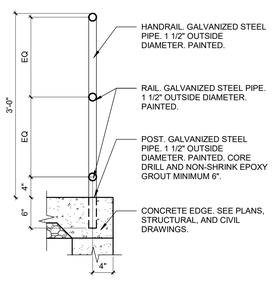
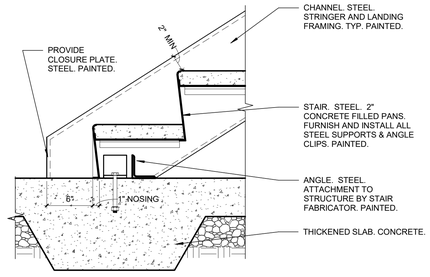


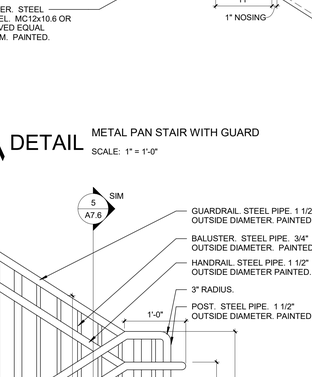
3 DETAIL METAL PAN STAIR AT BOTTOM LANDING
SCALE: 1" = 1'-0"



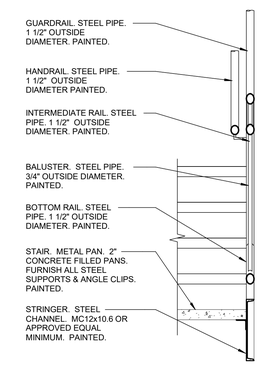
19 DETAIL RAILING AT SLAB EDGE
SCALE: 1" = 1'-0"



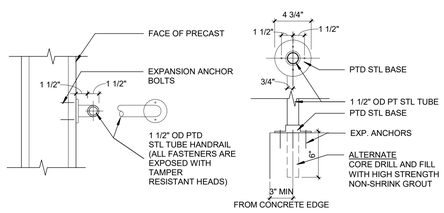
14 DETAIL ENLARGED METAL PAN STAIR AT BOTTOM LANDING
SCALE: 1 1/2" = 1'-0"



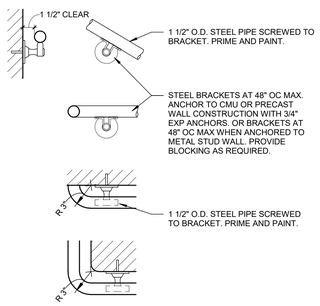
10 DETAIL METAL PAN STAIR HANDRAIL AT WALL
SCALE: 1" = 1'-0"



5 DETAIL METAL PAN STAIR AT RAILING
SCALE: 1" = 1'-0"



20 DETAIL STAIR HANDRAIL AND POST DETAIL
SCALE: 1 1/2" = 1'-0"



15 DETAIL METAL PAN STAIR HANDRAIL ATTACHMENT
SCALE: 1 1/2" = 1'-0"

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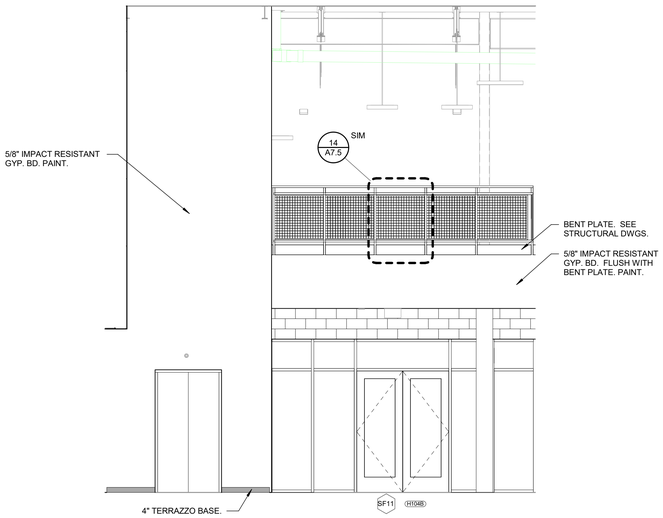
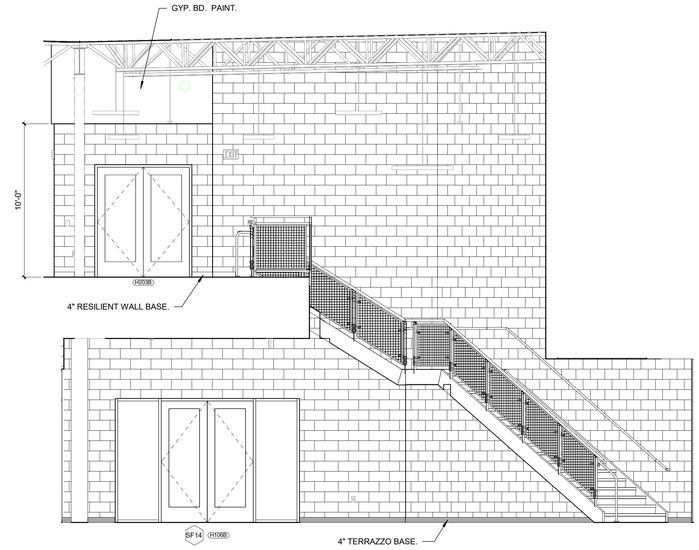
STAIR AND RAILING DETAILS

A7.6

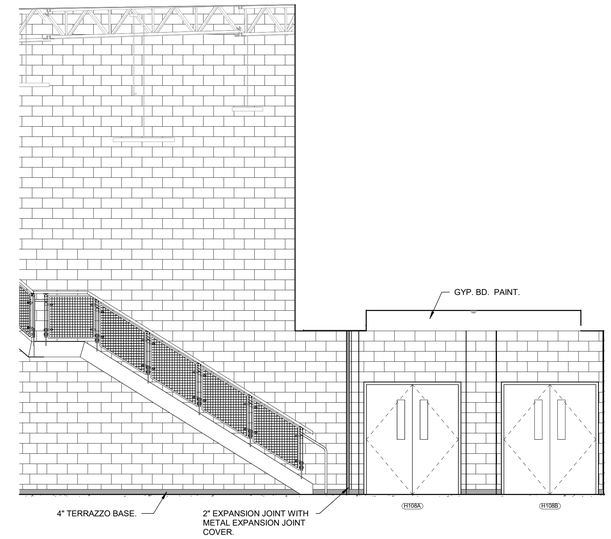
2/7/2025 9:09:10 AM



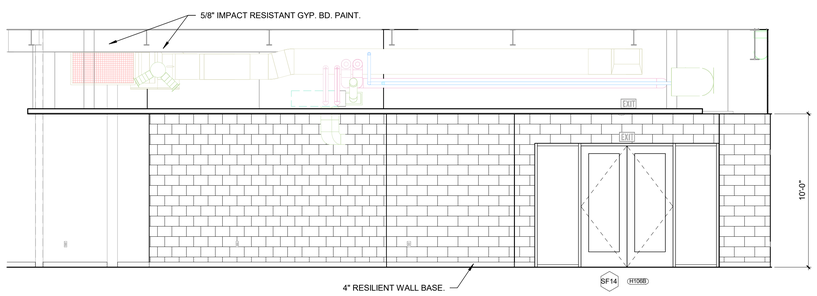
22 ELEVATION H101 WEST
SCALE: 1/4" = 1'-0"



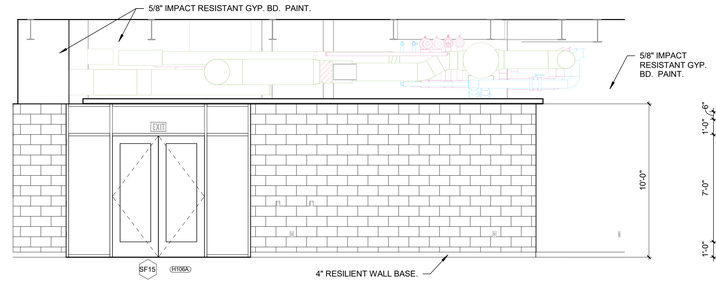
17 ELEVATION H101 NORTH
SCALE: 1/4" = 1'-0"



7 ELEVATION H101 EAST
SCALE: 1/4" = 1'-0"



24 ELEVATION H106 SOUTH
SCALE: 1/4" = 1'-0"



14 ELEVATION H106 NORTH
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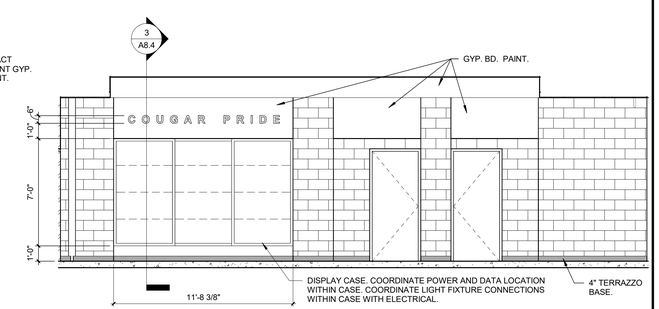

9 ELEVATION H101 SOUTH
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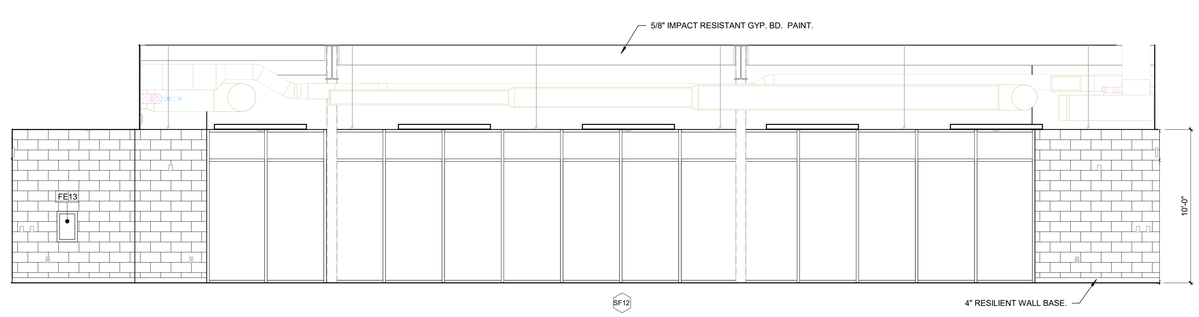

15 ELEVATION H106 WEST
SCALE: 1/4" = 1'-0"

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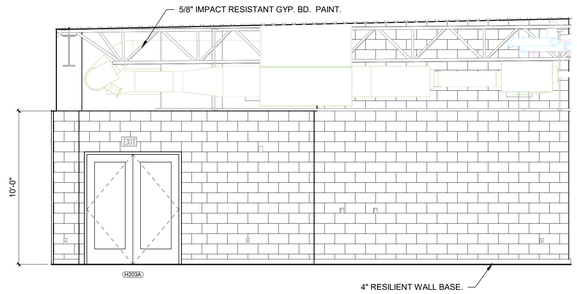
INTERIOR ELEVATIONS

A8.1

2/3/2025 9:09:15 AM



6 ELEVATION H203 NORTH
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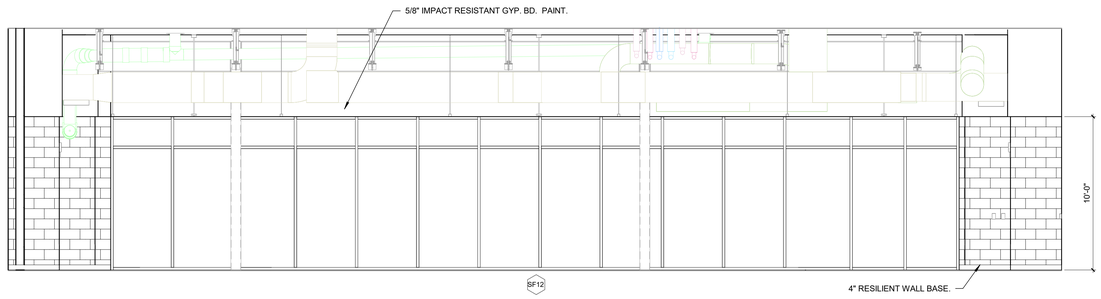

12 ELEVATION H203 WEST
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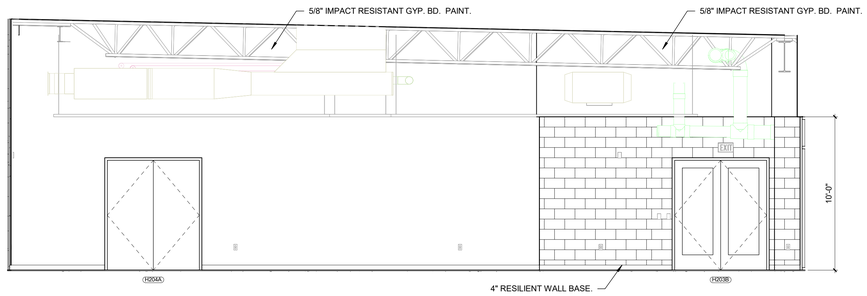

14 ELEVATION H203 SOUTH
SCALE: 1/4" = 1'-0"

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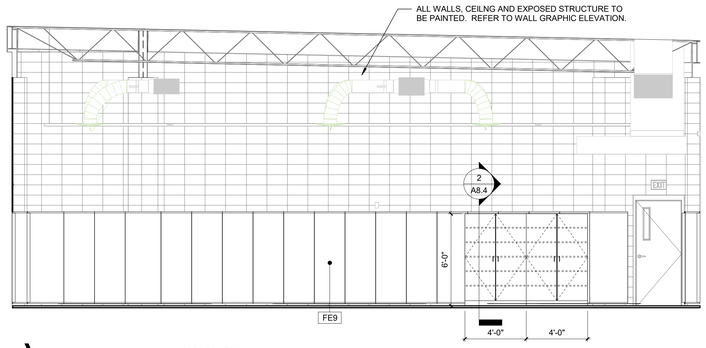
INTERIOR ELEVATIONS

A8.2

2/3/2025 9:09:18 AM



21\ ELEVATION F101 NORTH
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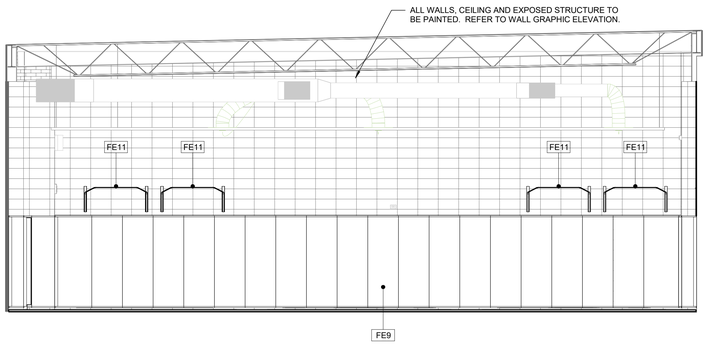
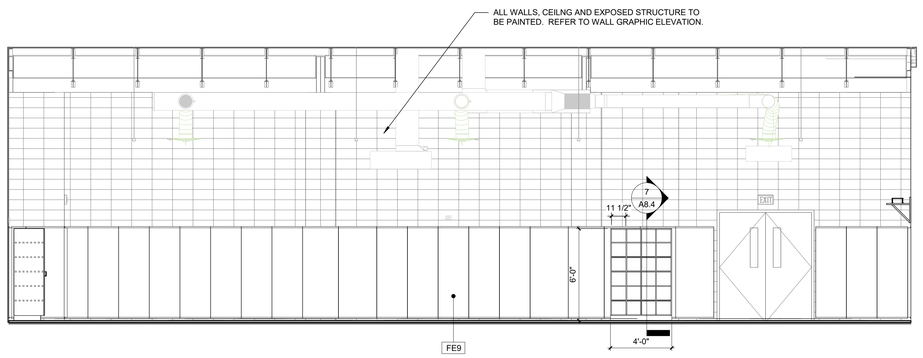


23\ ELEVATION F101 SOUTH
SCALE: 1/4" = 1'-0"



24\ ELEVATION F101 EAST
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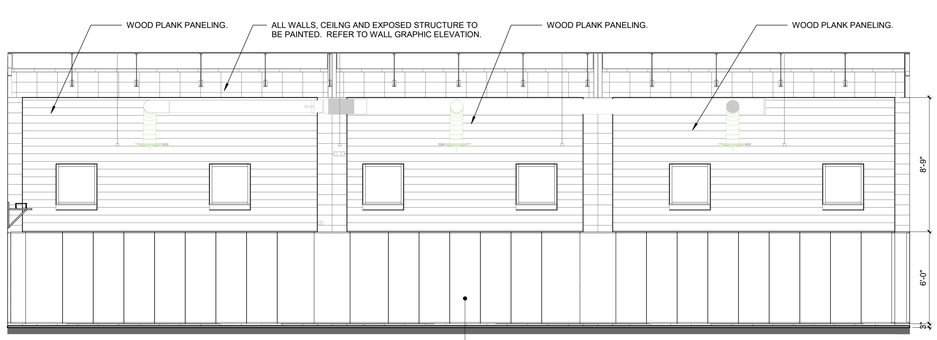
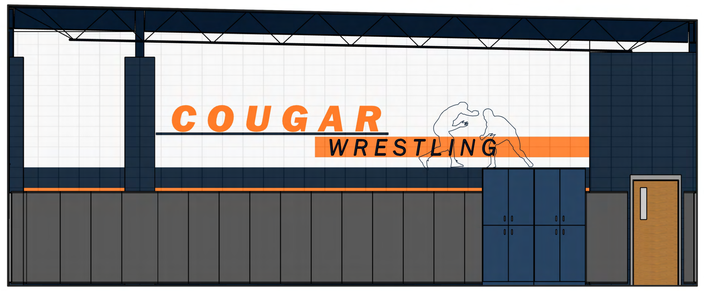
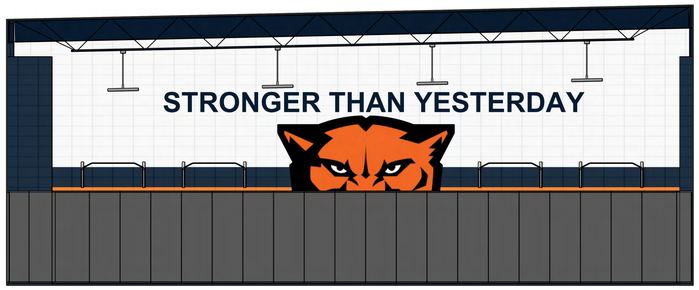


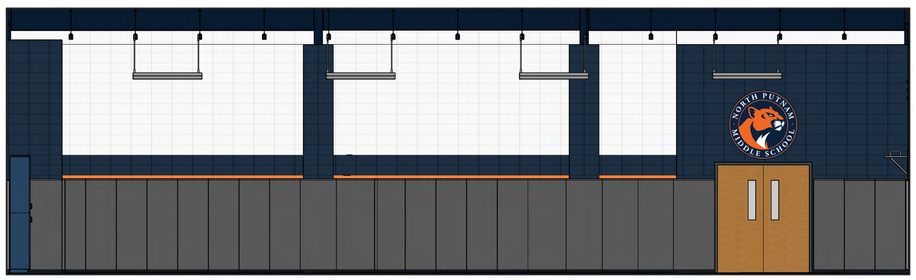
25\ ELEVATION F101 WEST
SCALE: 1/4" = 1'-0"



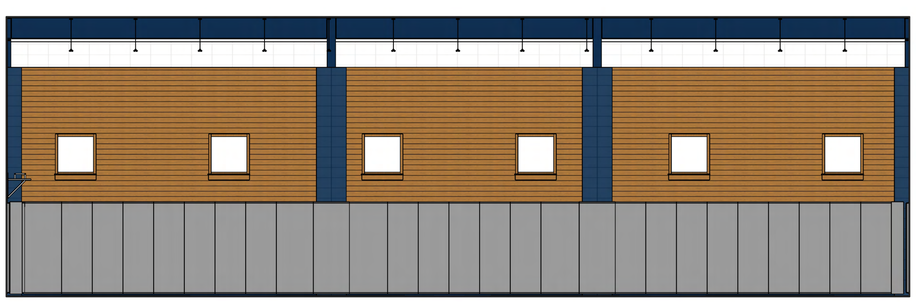
F101 NORTH - WALL GRAPHIC



F101 SOUTH - WALL GRAPHIC



F101 EAST - WALL GRAPHIC



F101 WEST - WALL GRAPHIC

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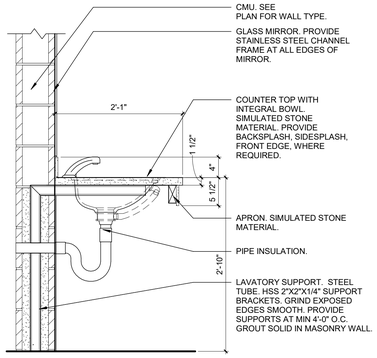
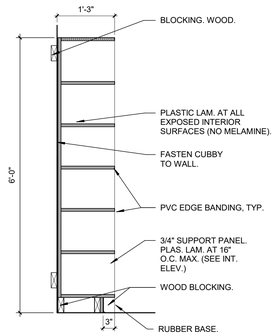
INTERIOR ELEVATIONS

A8.3

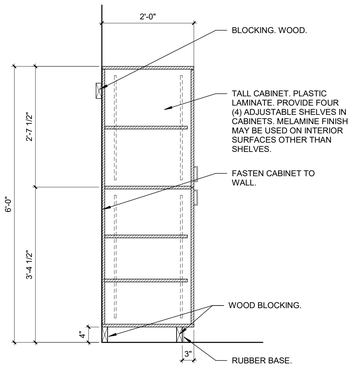
2/3/2025 9:09:21 AM



12 \ DETAIL 064116-01 LAVATORY @ CMU
SCALE: 1" = 1'-0"



7 \ DETAIL CUBBIES
SCALE: 3/4" = 1'-0"



2 \ DETAIL FULL HEIGHT CABINET
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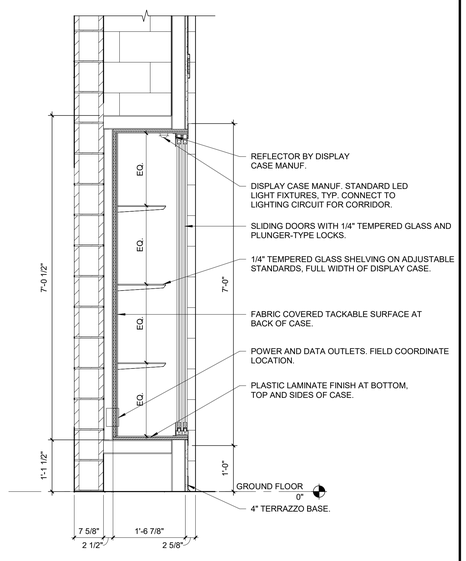

3 \ DETAIL DISPLAY CASE
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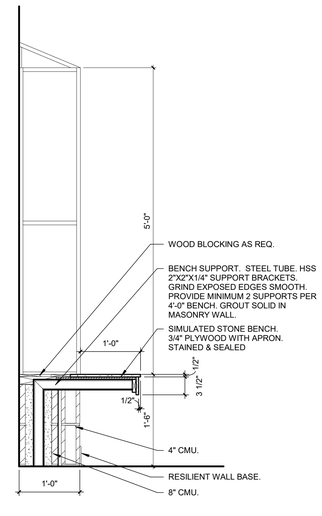

5 \ DETAIL LOCKER BASE
SCALE: 1" = 1'-0"

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MILLWORK

A8.4

2/3/2025 9:09:22 AM

ROOM FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR FINISH	BASE	CEILING MAT'L	CEILING FINISH	NORTH MAT'L	NORTH FINISH	EAST MAT'L	EAST FINISH	SOUTH MAT'L	SOUTH FINISH	WEST MAT'L	WEST FINISH	REMARKS
E12	STUDENT COMMONS	EXIST TERRAZZO	EXIST BASE	EXIST ACT	--	--	--	--	--	--	--	--	--	4
F101	WRESTLING	BY OTHERS	RB	EXIST EXP	PT	EXIST CMU	PT	EXIST CMU	PT	EXIST CMU	PT	EXIST CMU	PT	1
H100	VEST.	CPT 1	RB	MTL	MC-1	CMU	PT	CMU	PT	CMU	PT	GYP	PT	
H101	MS LOBBY	TERRAZZO	RB	ACT	ACP-1	CMU	PT	CMU	PT	CMU	PT	CMU	PT	3
H102	STAIR	RT/RSS	RB	ACT	ACP-1	CMU	PT	CMU	PT	CMU	PT	CMU	PT	3
H103	STO.	SEALER	RB	EXP	PT	GYP	PT	CMU	PT	CMU	PT	CMU	PT	
H104	GYM	WAF	RCB	EXP	PT	CMU	PT	CMU/GYP	PT	CMU	PT	--	PT	4, 6
H105	STO.	SEALER	--	EXP	PT	CMU	PT	CMU	PT	GYP	PT	CMU	PT	
H106	WEIGHTS	BY OTHERS	BY OTHERS	EXP	PT	CMU	PT	GYP	PT	CMU	PT	CMU/GYP	PT	1
H107	MAIN VEST.	CPT 1	RB	ACT	MC-1	CMU	PT	CMU	PT	CMU	PT	CMU/GYP	PT	
H108	MAIN LOBBY	TERRAZZO	RB	ACT	PT / ACP-1	CMU	PT	CMU	PT	CMU	PT	CMU	PT	
H109	MEN'S DRY CHANGING	CT	CT	GYP	PT	CMU	PT	CMU	PT	CMU	PT	CMU	PT	
H110	WOMEN'S DRY CHANGING	CT	CT	GYP	PT	CMU	PT	CMU	PT	CMU	PT	CMU	PT	
H111	JAN.	SEALER	RB	EXP	PT	--	--	--	--	--	--	--	--	
H112	MAIN STAIR	EPOXY STAIR TREAD	--	EXP	PT	CMU	PT	CMU	PT	--	--	--	--	3
H113	EL.	CPT 1	--	--	--	--	--	--	--	--	--	--	--	2
H114	CIRC.	CPT 1	RB	ACT	MC-1	GYP	PT	EXIST BRICK	PT	EXIST BRICK	PT	GYP	PT	
H115	ELEC.	SEALER	--	EXP	PT	CMU	PT	CMU	PT	CMU	PT	CMU	PT	
H116	STO.	SEALER	--	EXP	PT	CMU	PT	CMU	PT	GYP	PT	CMU	PT	
H117	PUMP ROOM	SEALER	--	EXP	PT	CMU	PT	CMU	PT	GYP	PT	CMU	PT	
H201	CIRC.	RTRAF	RB	EXP	PT	CMU	PT	CMU	PT	CMU	PT	--	--	
H202	TRACK	RTRAF	RB	EXP	PT	GYP	PT	CMU/GYP	PT	GYP	PT	GYP	PT	
H203	FITNESS / MULTI - USE	BY OTHERS	BY OTHERS	EXP	PT	CMU	PT	GYP	PT	CMU	PT	CMU/GYP	PT	1
H204	STO.	SEALER	RB	EXP	PT	CMU	PT	CMU	PT	CMU	PT	CMU	PT	
H205	CIRC.	RTRAF	RB	EXP	PT	CMU	PT	CMU	PT	CMU	PT	--	--	3

ROOM FINISH SCHEDULE GENERAL NOTES:

1. ABBREVIATIONS USED WITHIN THE ROOM FINISH SCHEDULE:

   CPT - CARPET
   CT # - CERAMIC TILE
   EXP - EXPOSED STRUCTURE, INCLUDING EXPOSED HVAC AND ELECTRICAL COMPONENTS
   GYP - GYPSUM BOARD. REFER TO PLANS FOR SPECIFIC TYPES.
   MTL - METAL. REFER TO PLANS AND SECTIONS FOR TYPE.
   PT - PAINT
   RB - RESILIENT BASE
   RCB - VENTED RUBBER COVE BASE (REFER TO SECTION 096466)
   RSS - RUBBER STAIR SYSTEM (REFER TO SECTION 096513)
   RT - RUBBER TILE (REFER TO SECTION 096519)
   RTRAF - RUNNING TRACK RESILIENT ATHLETIC FLOORING
   SEALER - SEALER ON CONCRETE (REFER TO SECTION 033000)
   WAF - WOOD ATHLETIC FLOORING

2. THE ROOM FINISH SCHEDULE IS INTENDED TO DECRIBE INTENT. SOME ITEMS REQUIRING FINISH CANNOT BE REPRESENTED WITHIN THE SCHEDULE. CONTRACTOR SHALL TYPICALLY PROVIDE FINISHING OF ALL EXPOSED SURFACES AS PART OF A COMPLETE AND FINISHED PROJECT. VERIFY AS REQUIRED WITH THE ARCHITECT PRIOR TO BIDDING.
3. PRODUCTS AND MATERIALS PROVIDED TO THE PROJECT IN A FINISHED STATE WILL NOT TYPICALLY REQUIRE FINISHING.
4. WHERE EXPOSED STRUCTURE OCCURS, ALL EXPOSED STRUCTURE, HVAC AND ELECTRICAL CONDUITS AND SIMILAR ITEMS ARE TO BE PAINTED UNLESS INDICATED OTHERWISE.
5. WHERE SPECIFIC FINISHES ARE NOTED TO BE "BY OTHERS", THE CONTRACTOR SHALL COORDINATE SCHEDULE WITH OWNERS SEPARATE VENDOR FOR INSTALLATION.

ROOM FINISH SCHEDULE REMARKS:

1. FLOORING IN THIS ROOM IS PROVIDED AND INSTALLED BY OWNERS SEPARATE VENDOR. CONTRACTOR TO COORDINATE INSTALLATION OF FLOORING WITH THIS SEPARATE VENDOR.
2. WITH THE EXCEPTION OF FLOORING, ALL FINISHES IN ELEVATOR ARE BY ELEVATOR MANUFACTURER.
3. PAINT ALL EXPOSED SURFACES OF METAL PAN STAIRS, INCLUDING ASSOCIATED GUARDRAILS AND HANDRAILS.
4. PAINT EXPOSED STRUCTURE BELOW RUNNING TRACK IN THIS ROOM.
5. EXISTING ACOUSTIC CEILING PANELS AND GRID ARE TO BE REMOVED AND REINSTALLED AS NECESSARY TO COMPLETE ABOVE CEILING WORK TO OCCUR WITHIN THIS ROOM.
6. VERIFY COLORS OF STRIPING ON GYMNASIUM FLOOR WITH OWNER. GENERALLY MATCH COLORS EXISTING AT OTHER GYMNASIUMS WITHIN THE FACILITY.

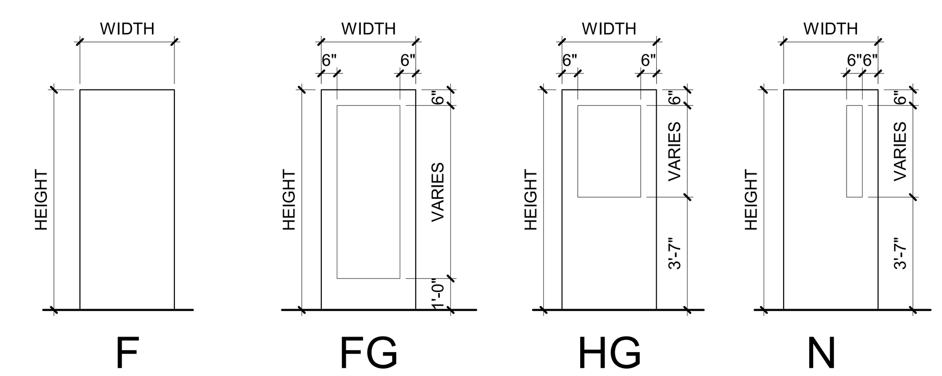
DOOR SCHEDULE

DOOR NUMBER	DOOR								FRAME							DETAILS			FIRE LABEL	HARDWARE	REMARKS	DOOR NUMBER
	LEAF QTY	SIZE: WIDTH	SIZE: WIDTH (IF UNEVEN)	SIZE: HEIGHT	SIZE: THICKNESS	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	FRAME DEPTH	GLAZING	SIDELIGHT WIDTH	SIDELIGHT WIDTH 1	TRANSOM HEIGHT	HEAD	JAMB	SILL				
H100A	2	3'-0"		7'-0"	2 1/4"	FG	AL	G5	SEE ELEV	SEE ELEV						14/A6.1	1/A6.5	15/A9.2		1	SEE SF1.	H100A
H100B	2	3'-0"		7'-0"	2 1/4"	FG	AL	G5	SEE ELEV	SEE ELEV						14/A6.1	2/A6.5	15/A9.2		1	SEE SF1.	H100B
H100C	2	3'-0"		7'-0"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						8/A9.2	9/A9.2	15/A9.2		4	SEE SF16.	H100C
H100D	2	3'-0"		7'-0"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						8/A9.2	9/A9.2	15/A9.2		4	SEE SF16.	H100D
H101A	2	3'-0"		7'-2"	1 3/4"	N	HM		10	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	6	1.	H101A
H101B	2	3'-0"		7'-2"	1 3/4"	N	HM		10	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	6	1.	H101B
H102A	1	3'-0"		7'-2"	1 3/4"	N	HM		00	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	7	1.	H102A
H102B	1	3'-0"		7'-2"	1 3/4"	N	HM		00	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	7	1.	H102B
H102C	1	3'-0"		7'-2"	1 3/4"	N	HM		00	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	10	1.	H102C
H103A	2	3'-0"		7'-2"	1 3/4"	F	HM		10	HM	5 7/8"					6/A9.2	7/A9.2	5/A9.2		9		H103A
H103B	2	3'-0"		7'-2"	1 3/4"	F	HM		10	HM	5 7/8"					6/A9.2	7/A9.2	5/A9.2		9		H103B
H104A	2	3'-0"		7'-11"	2 1/4"	FG	AL	G2	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	5/A9.2		5	SEE SF13.	H104A
H104B	2	3'-0"		7'-11"	2 1/4"	FG	AL	G2	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	5/A9.2		5	SEE SF11.	H104B
H104C	1	3'-6"		7'-11"	2 1/4"	FG	AL	G6	SEE ELEV	SEE ELEV						12/A6.1	14/A9.2	5/A9.2		2	SEE SF18.	H104C
H105A	2	3'-0"		7'-2"	1 3/4"	F	HM		10	HM	5 7/8"					6/A9.2	7/A9.2	5/A9.2		9		H105A
H105B	2	3'-0"		7'-2"	1 3/4"	F	HM		10	HM	5 7/8"					6/A9.2	7/A9.2	10/A9.2		9		H105B
H106A	2	3'-0"		7'-11"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		5	SEE SF15.	H106A
H106B	2	3'-0"		7'-11"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						8/A9.2	14/A9.2	15/A9.2		5	SEE SF14.	H106B
H107A	2	3'-0"		7'-11"	2 1/4"	FG	AL	G5	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		1	SEE SF9.	H107A
H107B	2	3'-0"		7'-11"	2 1/4"	FG	AL	G5	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		1	SEE SF9.	H107B
H107C	2	3'-0"		7'-11"	2 1/4"	FG	AL	G5	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		1	SEE SF9.	H107C
H107D	2	3'-0"		7'-11"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		4	SEE SF10.	H107D
H107E	2	3'-0"		7'-11"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		4	SEE SF10.	H107E
H107F	2	3'-0"		7'-11"	2 1/4"	FG	AL	G1	SEE ELEV	SEE ELEV						13/A9.2	14/A9.2	15/A9.2		4	SEE SF10.	H107F
H108A	2	3'-0"		7'-2"	1 3/4"	N	HM		10	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	6	1.	H108A
H108B	2	3'-0"		7'-2"	1 3/4"	N	HM		10	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	6	1.	H108B
H109A	1	3'-0"		7'-2"	1 3/4"	F	HM		00	HM	5 7/8"					6/A9.2	7/A9.2	10/A9.2		8		H109A
H110A	1	3'-0"		7'-2"	1 3/4"	F	HM		00	HM	5 7/8"					6/A9.2	7/A9.2	10/A9.2		8		H110A
H114A	2	3'-0"		7'-2"	1 3/4"	N	HM		10	HM	4 7/8"					6/A9.2	7/A9.2	10/A9.2	90	6	1.	H114A
H115A	1	3'-0"		7'-2"	1 3/4"	F	HM		00	HM	5 7/8"					6/A9.2	7/A9.2	10/A9.2	90	9		H115A
H116A	2	3'-0"		7'-2"	1 3/4"	F	HM		10	HM	5 7/8"					6/A9.2	7/A9.2	5/A9.2		9		H116A
H117A	1	3'-0"		7'-2"	1 3/4"	F	HM		00	HM	4 7/8"					11/A9.2	17/A6.5	10/A9.2	90	3		H117A
H203A	2	3'-0"		7'-2"	1 3/4"	FG	HM	G1	10	HM	5 7/8"					6/A9.2	7/A9.2	10/A9.2		5		H203A
H203B	2	3'-0"		7'-2"	1 3/4"	FG	HM	G1	10	HM	5 7/8"					6/A9.2	7/A9.2	10/A9.2		5		H203B
H204A	2	3'-0"		7'-2"	1 3/4"	F	HM		10	HM	5 7/8"					1/A9.2	2/A9.2	10/A9.2		9		H204A

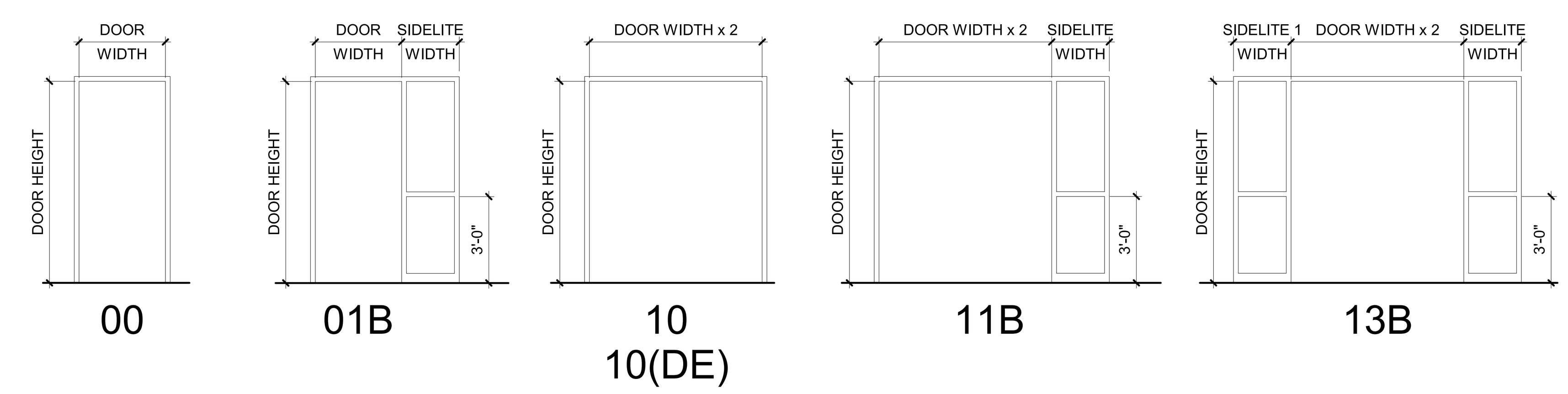
REMARKS:

1. REFER TO SPECIFICATION SECTION 088810 FOR GLAZING IN FIRE RATED DOORS.

DOOR PANELS



DOOR FRAMES



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TOM C. POULOS
REGISTERED
AR10300148
STATE OF
INDIANA
ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON. DOCS.
DWR LTT
CHK TAS

SCHEDULES

A9.1

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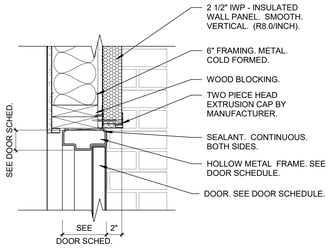
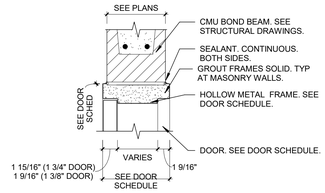
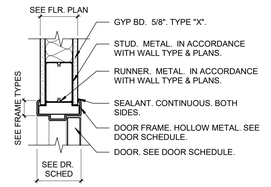


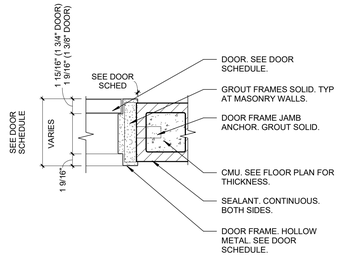
11 DETAIL DOOR HEAD @ H117A
SCALE: 1 1/2" = 1'-0"



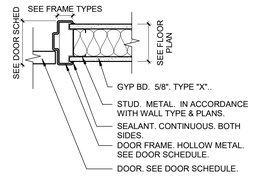
6 DETAIL H.M. DOOR HEAD AT C.M.U WALL
SCALE: 1 1/2" = 1'-0"



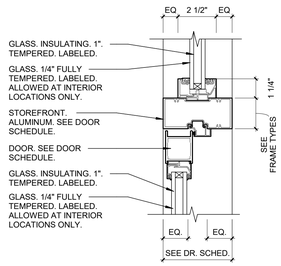
1 DETAIL H.M. DOOR HEAD AT STUD WALL
SCALE: 1 1/2" = 1'-0"



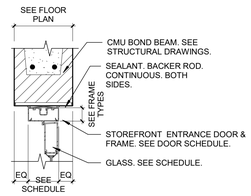
7 DETAIL H.M. DOOR JAMB AT C.M.U. WALL
SCALE: 1 1/2" = 1'-0"



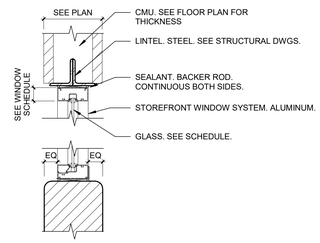
2 DETAIL H.M. DOOR JAMB AT STUD WALL
SCALE: 1 1/2" = 1'-0"



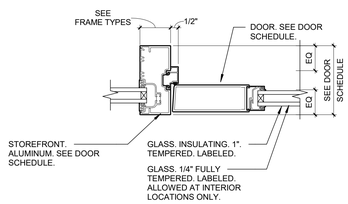
13 DETAIL STOREFRONT DOOR HEAD AT TRANSOM
SCALE: 3" = 1'-0"



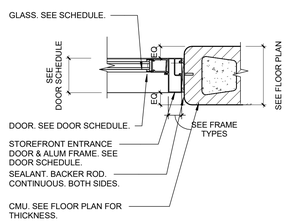
8 DETAIL STOREFRONT DOOR HEAD AT C.M.U.
SCALE: 1 1/2" = 1'-0"



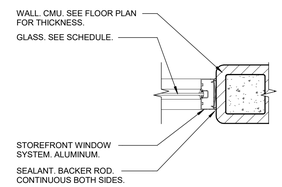
3 DETAIL STOREFRONT HEAD/SILL AT C.M.U.
SCALE: 1 1/2" = 1'-0"



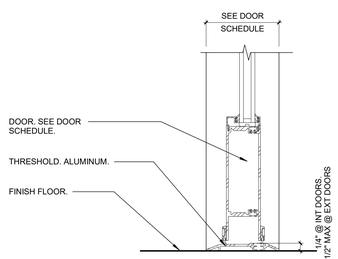
14 DETAIL STOREFRONT JAMB AT DOOR
SCALE: 3" = 1'-0"



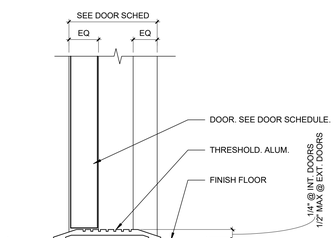
9 DETAIL STOREFRONT DOOR JAMB AT C.M.U.
SCALE: 1 1/2" = 1'-0"



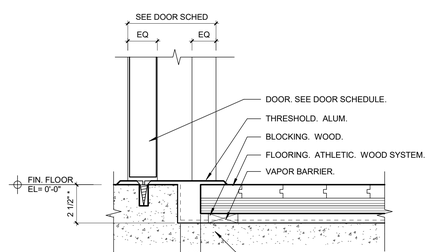
4 DETAIL STOREFRONT JAMB AT C.M.U.
SCALE: 1 1/2" = 1'-0"



15 DETAIL STOREFRONT THRESHOLD
SCALE: 3" = 1'-0"



10 DETAIL THRESHOLD H.M. OR WOOD
SCALE: 3" = 1'-0"



* VERIFY WITH WOOD FLOOR MFR.

5 DETAIL DOOR THRESHOLD AT WOOD FLOOR
SCALE: 3" = 1'-0"

2/3/2025 9:09:25 AM

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TONY C. POLLIS REGISTERED AR10300148 STATE OF INDIANA ARCHITECT
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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
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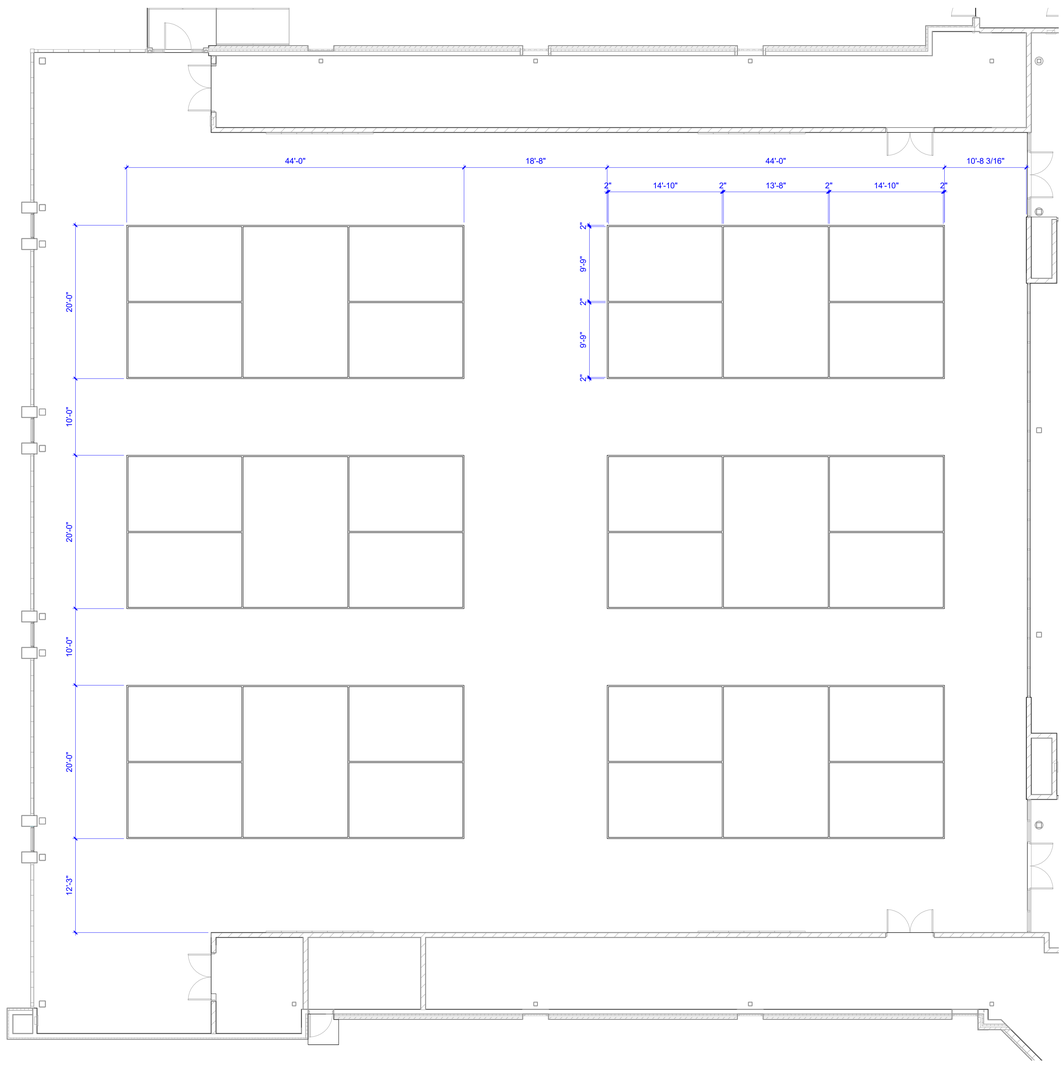
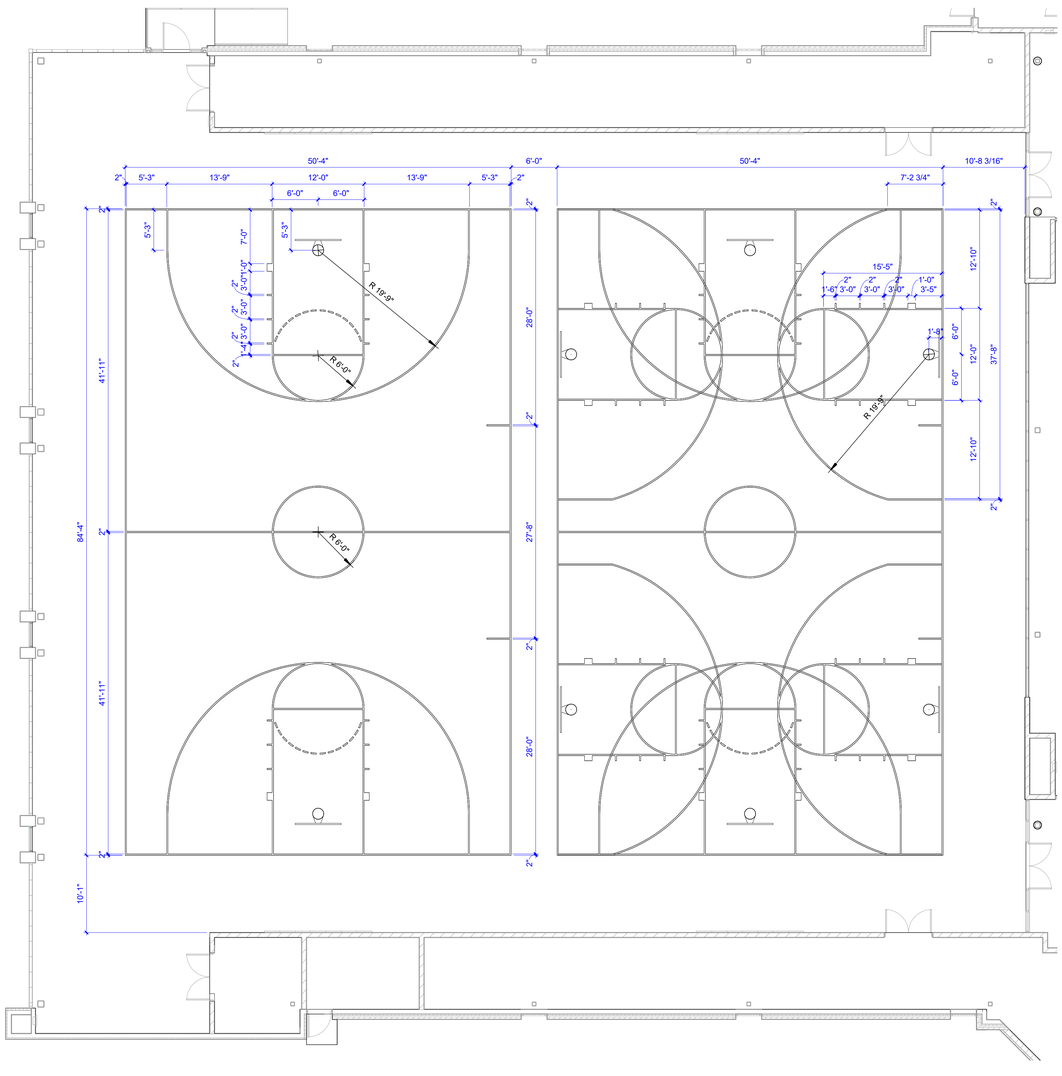
CHK	TAS

DOOR DETAILS

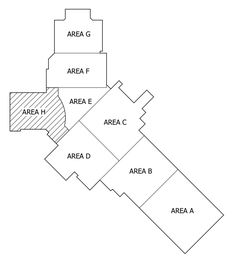
A9.2



25\ ENL PLAN STRIPING PLAN - PICKLEBALL
SCALE: 1/8" = 1'-0"



15\ ENL PLAN STRIPING PLAN - BASKETBALL
SCALE: 1/8" = 1'-0"



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STATE OF
INDIANA
ARCHITECT
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HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
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CHK	TAS

GYM STRIPING PLAN

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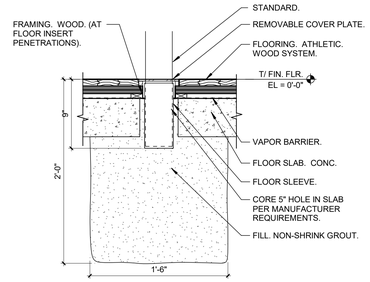
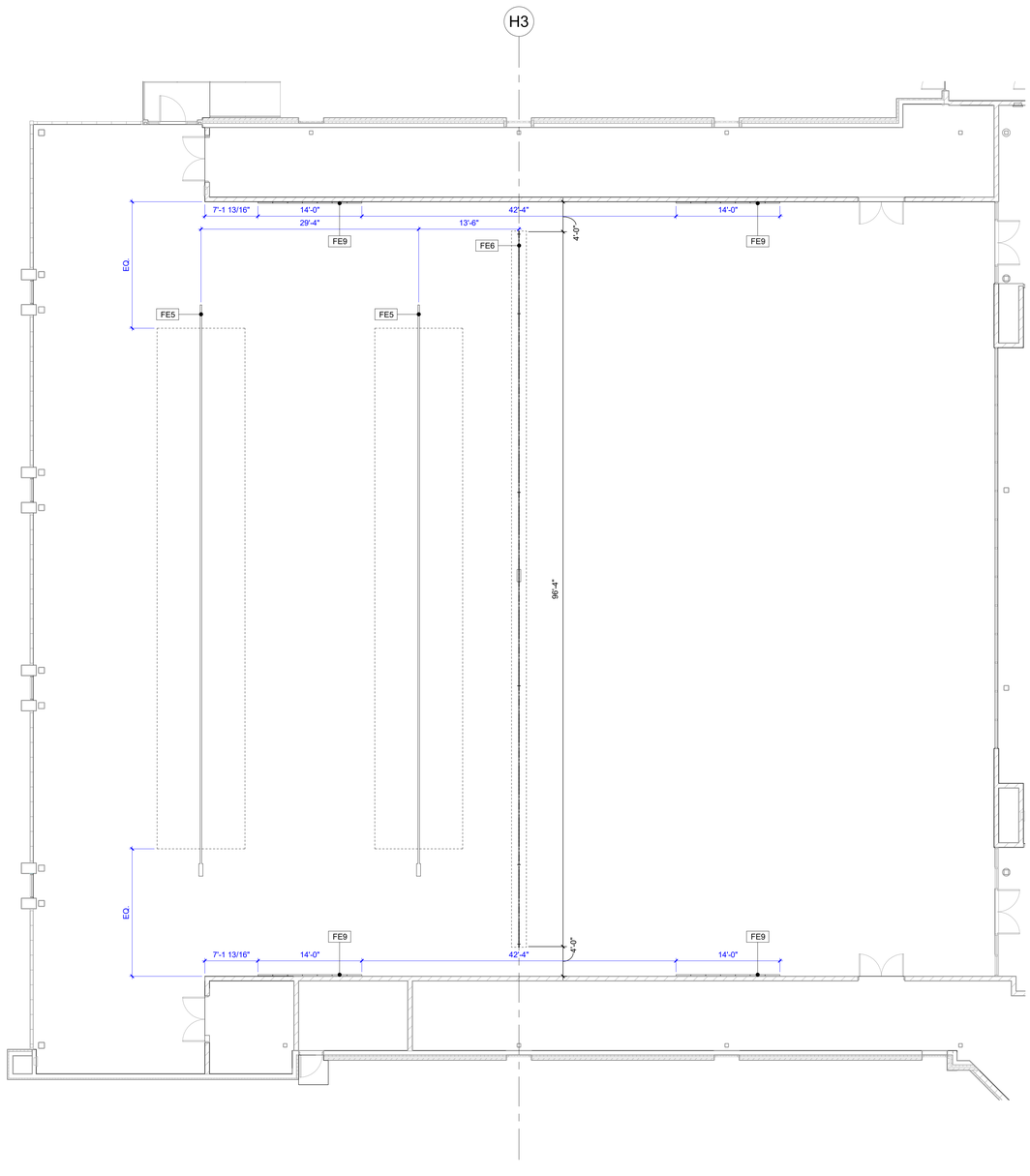


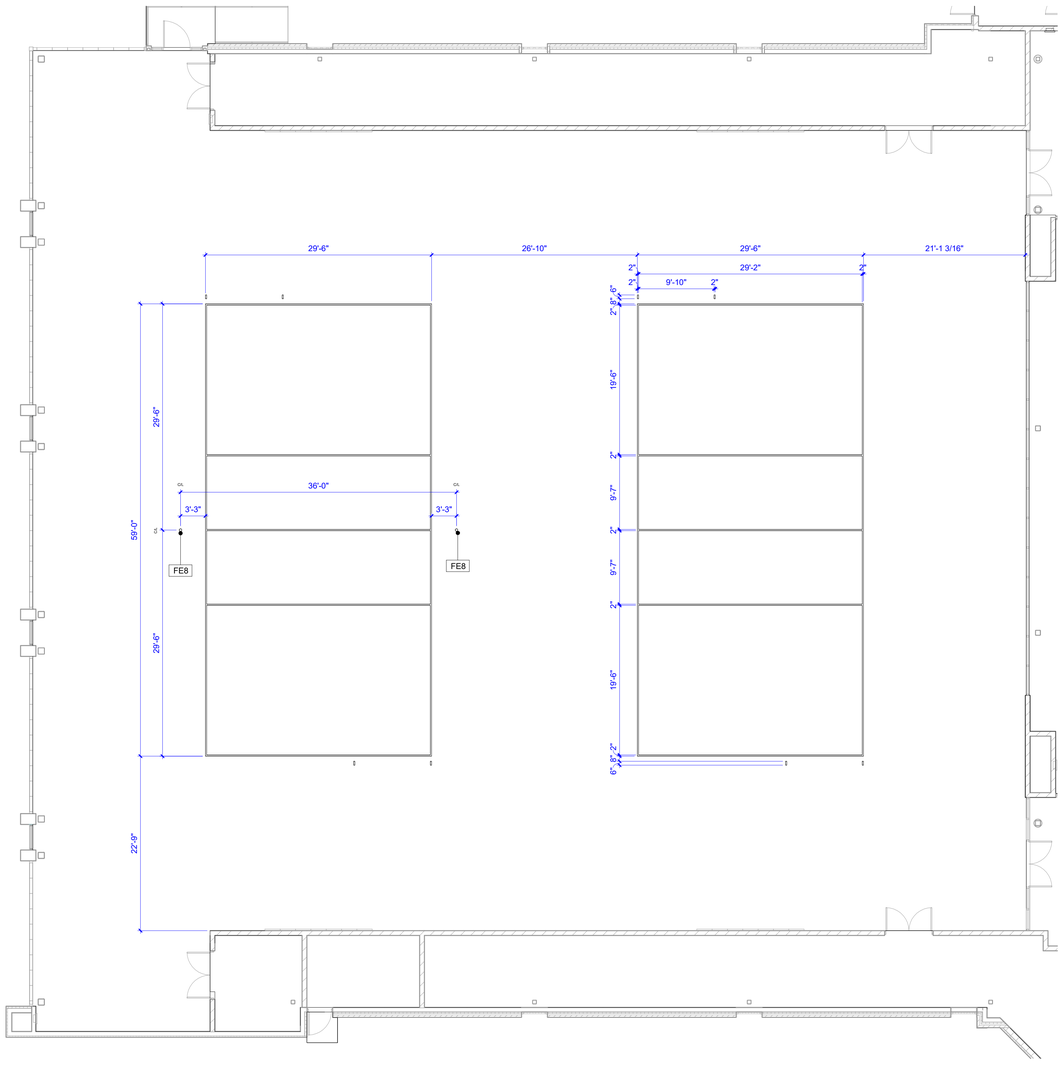
6 \ DETAIL VOLLEYBALL SLEEVE @ WOOD FLOOR
SCALE: 1 1/2" = 1'-0"

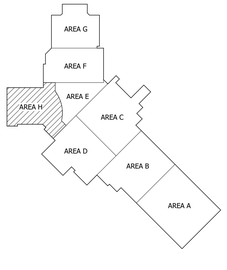
FURNISHED EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	COUNT	PROVIDED BY	INSTALLED BY
FE1	BLEACHERS. TILT-UP. ROLLING. ALUMINUM. 12'-0", 2 SEAT ROWS. (16 SEATS). NAT'L RECREATION SYSTEMS INC. NRS TR-0212STD OR EQUAL.	4	OWNER	OWNER
FE2	CEILING SUSPENDED REAR FOLD REAR BRACED BASKETBALL BACKSTOP.	4	CONTRACTOR	CONTRACTOR
FE3	CEILING SUSPENDED SIDE FOLD BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE4	WALL MOUNTED BASKETBALL BACKSTOP.	2	CONTRACTOR	CONTRACTOR
FE5	CEILING SUSPENDED 10'x12'x70' BATTING CAGE.	2	CONTRACTOR	CONTRACTOR
FE6	GYM DIVIDER CURTAIN. MOTORIZED, FOLD-UP.	1	CONTRACTOR	CONTRACTOR
FE7	CEILING SUSPENDED FORWARD FOLD FRONT BRACED VOLLEYBALL NET.	1	CONTRACTOR	CONTRACTOR
FE8	VOLLEYBALL NET FLOOR SLEEVE	2	CONTRACTOR	CONTRACTOR
FE9	WALL PAD. 2'x6'x2", TYP. PROVIDE CUSTOM WIDTHS AS NECESSARY.	98	CONTRACTOR	CONTRACTOR
FE10	WALL MOUNTED SCOREBOARD	4	CONTRACTOR	CONTRACTOR
FE11	CHINNING BAR. WALL MOUNTED. GILL ATHLETICS WE179.	4	CONTRACTOR	CONTRACTOR
FE12	12'x12' PRACTICE WRESTLING MAT WITH 10' DIAMETER CIRCLE. 1 3/8" THICK.	10	OWNER	OWNER
FE13	SEMI RECESSED FIRE EXTINGUISHER CABINET	7	CONTRACTOR	CONTRACTOR
FE14	CONCRETE BACKLESS BENCH. 96"Lx24"Wx17"H BY BELSON OUTDOORS. MODEL SLB96.	4	CONTRACTOR	CONTRACTOR
FE15	1" THICK RESILIENT FLOORING.	1	OWNER	OWNER
FE16	7MM RESILIENT FLOORING.	1	OWNER	OWNER
FE17	INDOOR TURF	1	OWNER	OWNER



25 \ ENL PLAN STRIPING PLAN - DIVIDER AND BATTING NETS
SCALE: 1/8" = 1'-0"





15 \ ENL PLAN STRIPING PLAN - VOLLEYBALL
SCALE: 1/8" = 1'-0"

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01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON. DOCS.
DWR	LTT
CHK	TAS

GYM STRIPING PLAN & EQUIPMENT PLAN

A10.2

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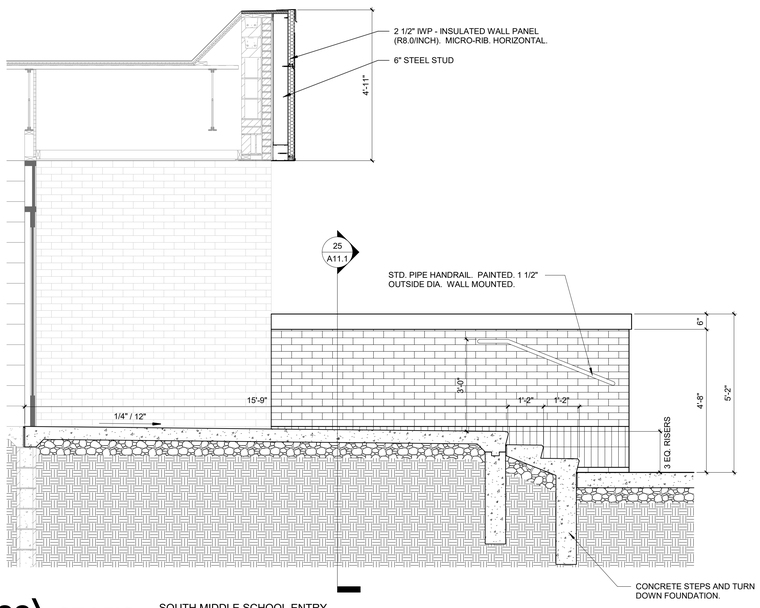
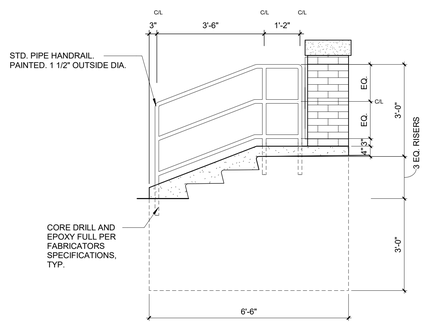


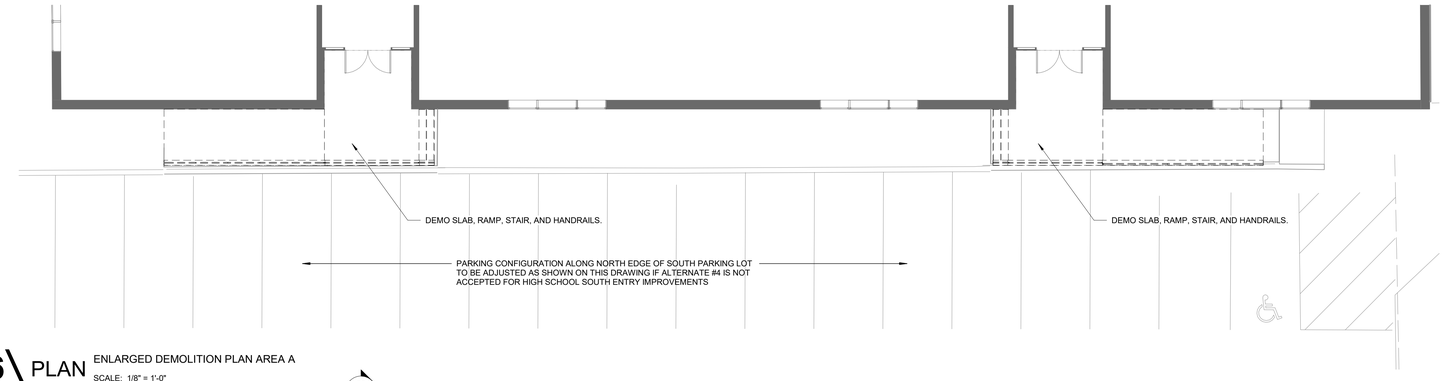
22\ SECTION SOUTH MIDDLE SCHOOL ENTRY

SCALE: 1/2" = 1'-0"



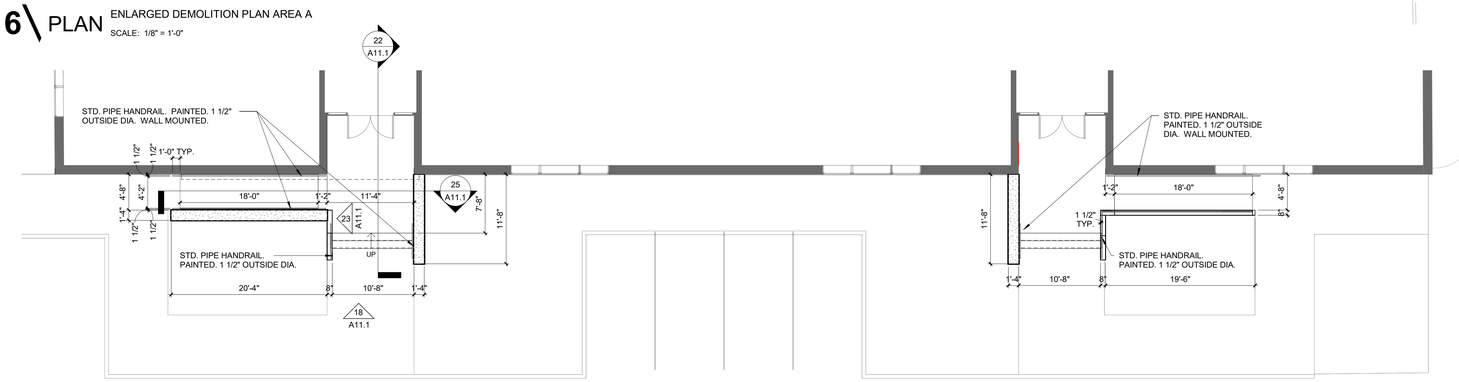
23\ ELEVATION GUARDRAIL AND HANDRAIL

SCALE: 1/2" = 1'-0"



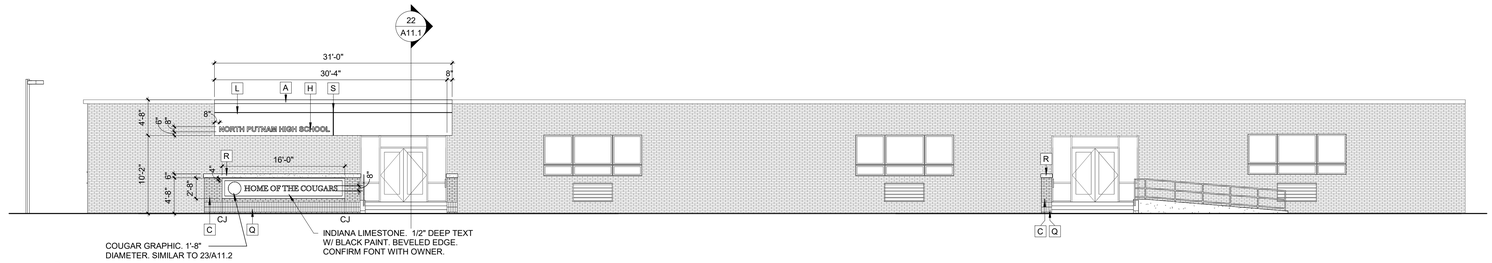
16\ PLAN ENLARGED DEMOLITION PLAN AREA A

SCALE: 1/8" = 1'-0"



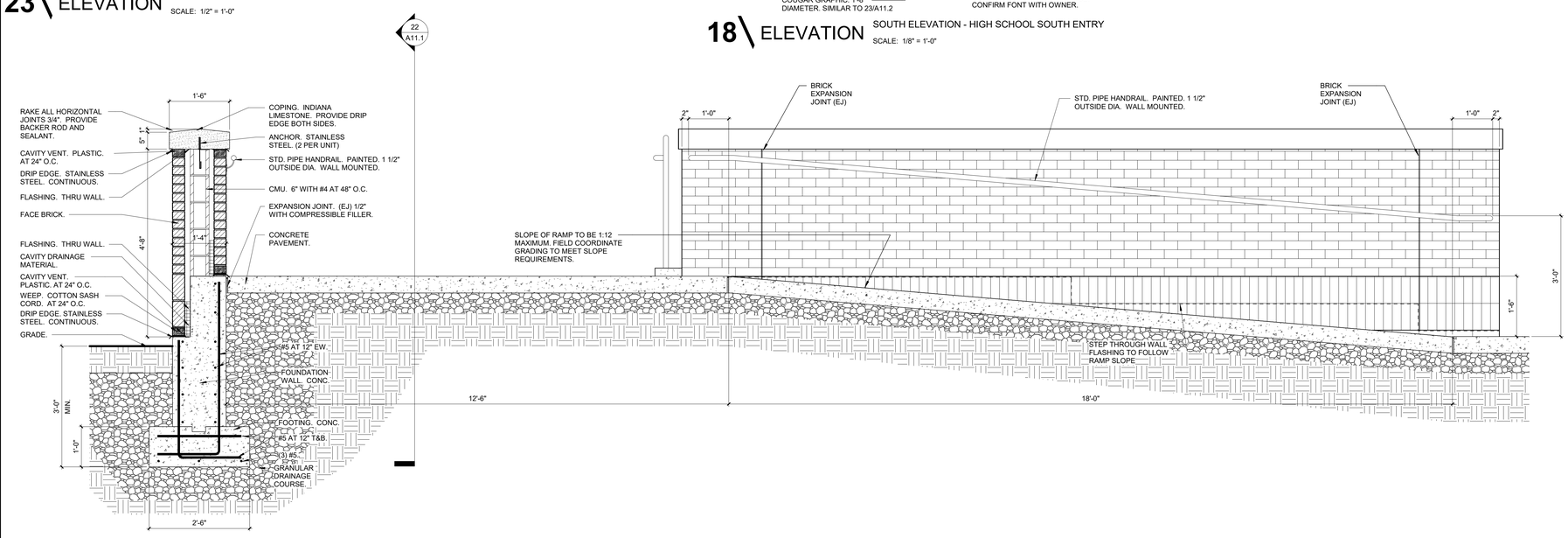
17\ PLAN ENLARGED PLAN AREA A

SCALE: 1/8" = 1'-0"



18\ ELEVATION SOUTH ELEVATION - HIGH SCHOOL SOUTH ENTRY

SCALE: 1/8" = 1'-0"



25\ SECTION RAMP

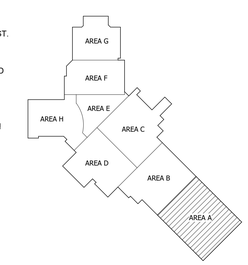
SCALE: 3/4" = 1'-0"

EXTERIOR KEYNOTES

#	NOTE
A	COPING. ALUM. PREFIN. 6". COLOR 1.
B	EXPANSION JOINT. 2".
C	FACE BRICK. COLOR 1.
D	FACE BRICK. COLOR 2.
F	BRAKE METAL.
G	STOREFRONT. ALUM. PREFINISHED.
H	DIMENSIONAL LETTER SIGNAGE.
I	TRANSLUCENT WALL SYSTEM (KINGSPAN UNIQUAD).
J	ROOF ACCESS LADDER. REFER TO 9/A9.3.
K	MC-1: METAL CLADDING. WOOD GRAIN FINISH. REFER TO SECTION 074616.
L	MP-1: STEEL-FACED INSULATED METAL PANELS (R8.0/INCH). MICRO-RIB. HORIZONTAL. REFER TO SECTION 074213.
M	MP-2: STEEL-FACED INSULATED METAL PANELS (R8.0/INCH). SMOOTH. VERTICAL. REFER TO SECTION 074213.
O	MP-3: FORMED METAL PANELS. REFER TO SECTION 074213.13.
P	METAL EXPANSION JOINT COVER.
Q	FACE BRICK. SOLDIER COURSE. COLOR 1.
R	COPING. CAST STONE. PROVIDE DRIP EDGE BOTH SIDES.
S	1/2" TRIMLESS JOINT.

ALTERNATE #4 GENERAL NOTES:

1. ALL WORK SHOWN ON THIS SHEET IS INCLUDED WITHIN THE ALTERNATE COST.
2. IF THIS ALTERNATE IS NOT ACCEPTED ADJUST EXTENT OF PAVING REPLACEMENT WORK AS SHOWN ON CIVIL TO THE ARRANGEMENT INDICATED ON 16/A11.1. COSTS FOR THE ADJUSTMENT SHALL BE INCLUDED WITHIN THE OVERALL COST OF THE ALTERNATE.
3. IF THE ALTERNATE IS ACCEPTED, SCHEDULE WORK TO AVOID IMPACT ON OWNERS ACTIVITIES.



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TONY C. POULOS
REGISTERED
AR10300148
STATE OF
INDIANA
ARCHITECT
01.31.2025

HS/MS FIELDHOUSE ADDITION & HVAC IMPROVEMENTS - VOL. 1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
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WILLIAMS ARCHITECTS

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DWR	LTT
CHK	TAS

ALTERNATE 4 - HIGH SCHOOL SOUTH ENTRY IMPROVEMENTS

A11.1

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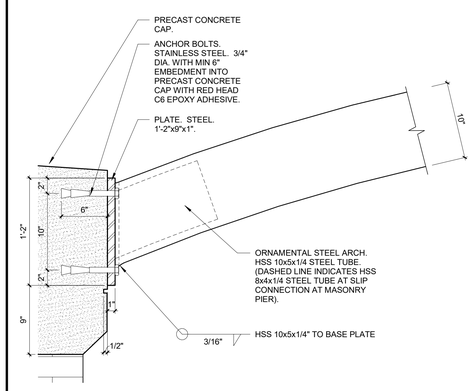
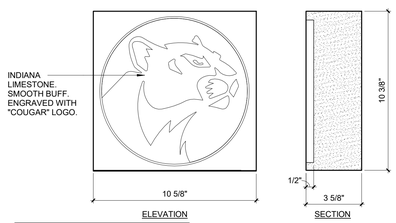


22\ DETAIL ORNAMENTAL STEEL ARCH AND DIMENSIONAL LETTERS

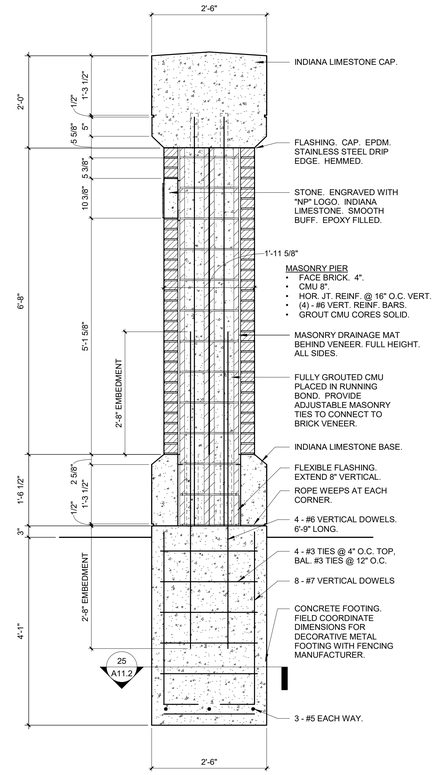
SCALE: 1 1/2" = 1'-0"



NOTE: AT SIMILAR CONDITION THE DIAMETER OF LOGO IS 1'-8".

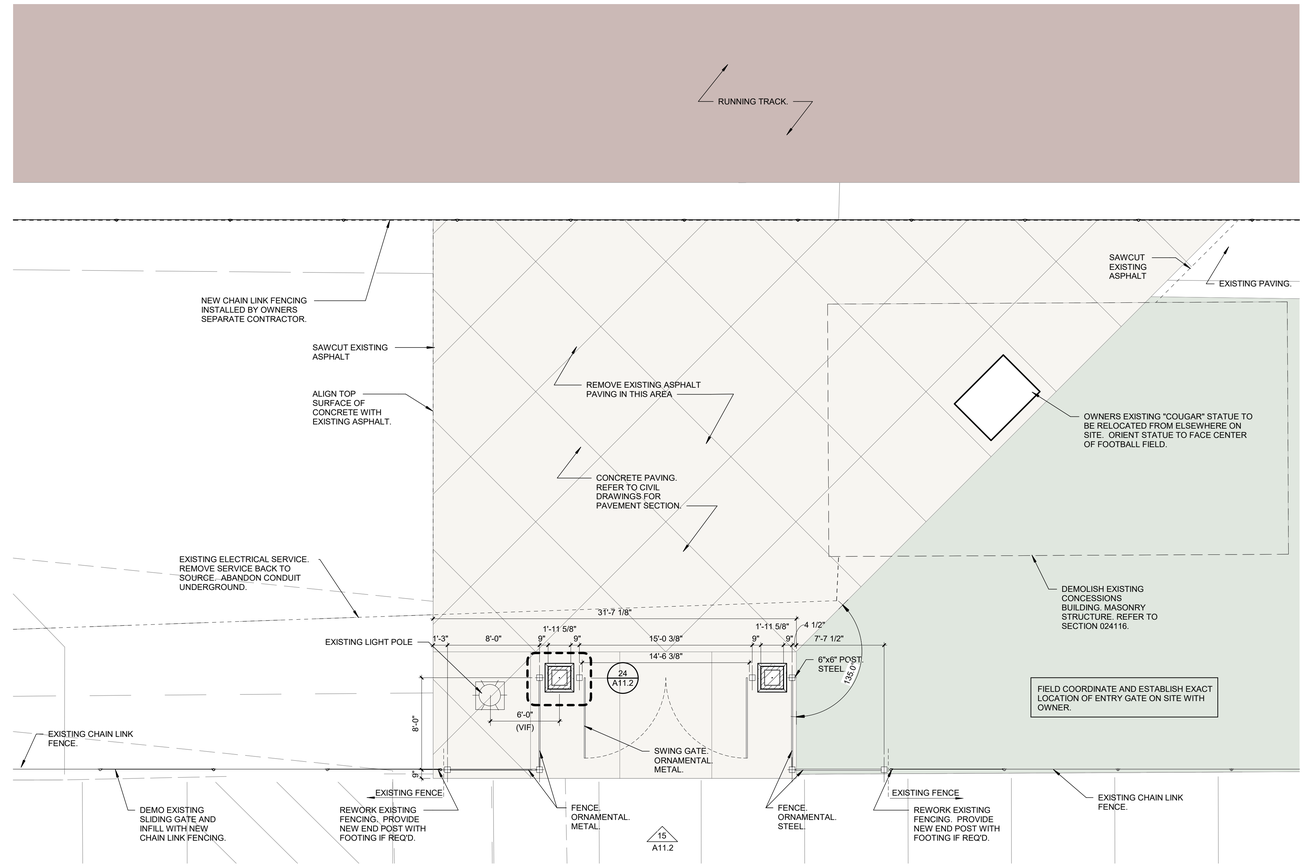
23\ DETAIL MEDALLION

SCALE: 3" = 1'-0"



18\ SECTION MASONRY PIER

SCALE: 3/4" = 1'-0"

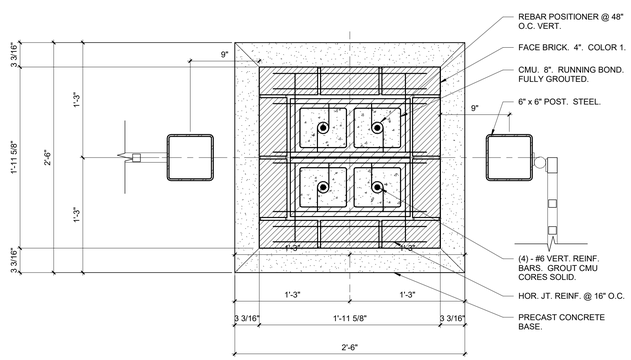


13\ PLAN FOOTBALL STADIUM ENTRY GATE

SCALE: 3/16" = 1'-0"

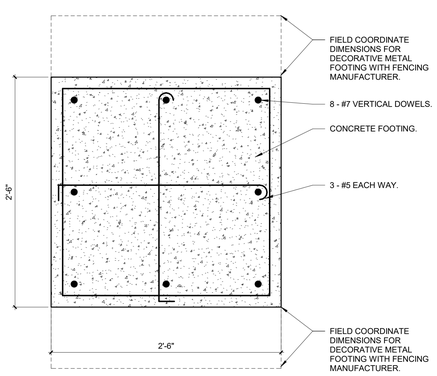
ALTERNATE #4 GENERAL NOTES:

1. ALL WORK SHOWN ON THIS SHEET IS INCLUDED WITHIN THE ALTERNATE COST.
2. IF THIS ALTERNATE IS NOT ACCEPTED ADJUST EXTENT OF PAVING REPLACEMENT WORK AS SHOWN ON CIVIL TO THE ARRANGEMENT INDICATED ON 16/A11.1. COSTS FOR THE ADJUSTMENT SHALL BE INCLUDED WITHIN THE OVERALL COST OF THE ALTERNATE.
3. IF THE ALTERNATE IS ACCEPTED, SCHEDULE WORK TO AVOID IMPACT ON OWNERS ACTIVITIES.



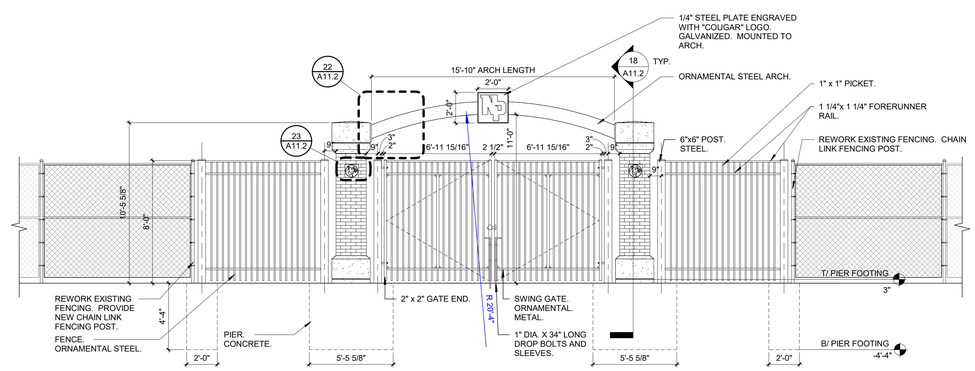
24\ DETAIL MASONRY PIER

SCALE: 1 1/2" = 1'-0"



25\ DETAIL MASONRY PIER FOUNDATION

SCALE: 1 1/2" = 1'-0"



15\ ELEVATION FOOTBALL STADIUM ENTRY GATE

SCALE: 1/4" = 1'-0"

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ALTERNATE 8 - ATHLETICS COMPLEX ENTRY ARCH

A11.2

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME

NORTH — 1 — VIEW NAME — 1/8" = 1'-0" — PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON

SIM — 1 — M101 — SIM — 4 1 2 3 — T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

"TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2014 EDITION	WITH AMENDMENTS
FIRE CODE:	IFC 2012 EDITION	WITH AMENDMENTS
PLUMBING CODE:	IPC 2012 EDITION	WITH AMENDMENTS
MECHANICAL CODE:	IMC 2014 EDITION	WITH AMENDMENTS
ELECTRICAL CODE:	IEC 2009 EDITION (NFPA 70-2008)	WITH AMENDMENTS

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

FIRE PROTECTION SHEET INDEX

F0.0	FIRE PROTECTION COVERSHEET
F2.1H	GROUND FLOOR FIRE PROTECTION PLAN - AREA H
F2.3H	UPPER FLOOR FIRE PROTECTION PLAN - AREA H
F7.0	FIRE PROTECTION DIAGRAMS
F8.0	FIRE PROTECTION DETAILS & SCHEDULES
GRAND TOTAL: 5	

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CAF	COMPRESSED AIR - FIRE PROTECTION
DFP	DRAIN
FP	FIRE PROTECTION
FPD	FIRE PROTECTION - DRY SYSTEM
W	SERVICE WATER - POTABLE
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	UNION/FLANGE
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	SHUTOFF VALVE NORMALLY OPEN
	AUTOMATIC DRAIN VALVE
	AIR PRESSURE MAINTENANCE DEVICE
	AIR SUPERVISORY SWITCH
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	CHECK VALVE
	INDICATOR POST - WALL MOUNTED
	INDICATOR POST - YARD MOUNTED
	FIRE PUMP TEST CONNECTION
	FIRE DEPARTMENT CONNECTION - WALL EXPOSED
	FIRE DEPARTMENT CONNECTION - WALL FLUSH
	FIRE DEPARTMENT CONNECTION - WALL STORZ
	FIRE DEPARTMENT CONNECTION - YARD
	BACKFLOW PREVENTER
	INSPECTOR TEST AND DRAIN VALVE
	OS&Y GATE VALVE
	OS&Y GATE VALVE WITH MONITOR SWITCH
F	FLOW SWITCH
P	PRESSURE SWITCH
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	MONITOR SWITCH
	AREA BOUNDARY
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION
	EXTRA GROUP 1
	EXTRA GROUP 2
	SPRINKLER - WALL MOUNTED
	SPRINKLER
	SPRINKLER - CONCEALED
	SPRINKLER
	SPRINKLER
	SPRINKLER
A	SPRINKLER
A	SPRINKLER

FIRE PROTECTION ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
I.E.	INVERT ELEVATION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SCCR	SHORT CIRCUIT CURRENT RATING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEY'S, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
12. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

FIRE PROTECTION GENERAL NOTES:

1. THESE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
3. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
4. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
5. PROVIDE COVERAGE ABOVE AND BELOW ALL EXPOSED DUCTWORK GREATER THAN 48" WIDE.
6. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REFER TO ARCHITECTURAL PLANS.
7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
8. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
9. ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
10. EACH ASSEMBLY SHALL INCLUDE BUTTERFLY CONTROL VALVE INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
11. PROVIDE RISER ROOM IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER ROOM. COORDINATE EXACT SIGN LANGUAGE WITH AHJ.
12. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
13. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
14. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
15. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
16. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY NFPA 13 UNLESS OTHERWISE NOTED.
17. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
18. A GRAPHIC ANNUNCIATOR PANEL SHALL BE PROVIDED TO INCLUDE AREAS BEING PROVIDED WITH A PRE-ACTION OR CLEAN AGENT SYSTEM WHICH HAVE CONCEALED AREAS.
19. EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ON SITE AND COORDINATED WITH THE ELECTRICAL CONTRACTOR.
20. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
21. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
22. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
23. DRAWINGS SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
24. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

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PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

FIRE PROTECTION COVERSHEET

F0.0

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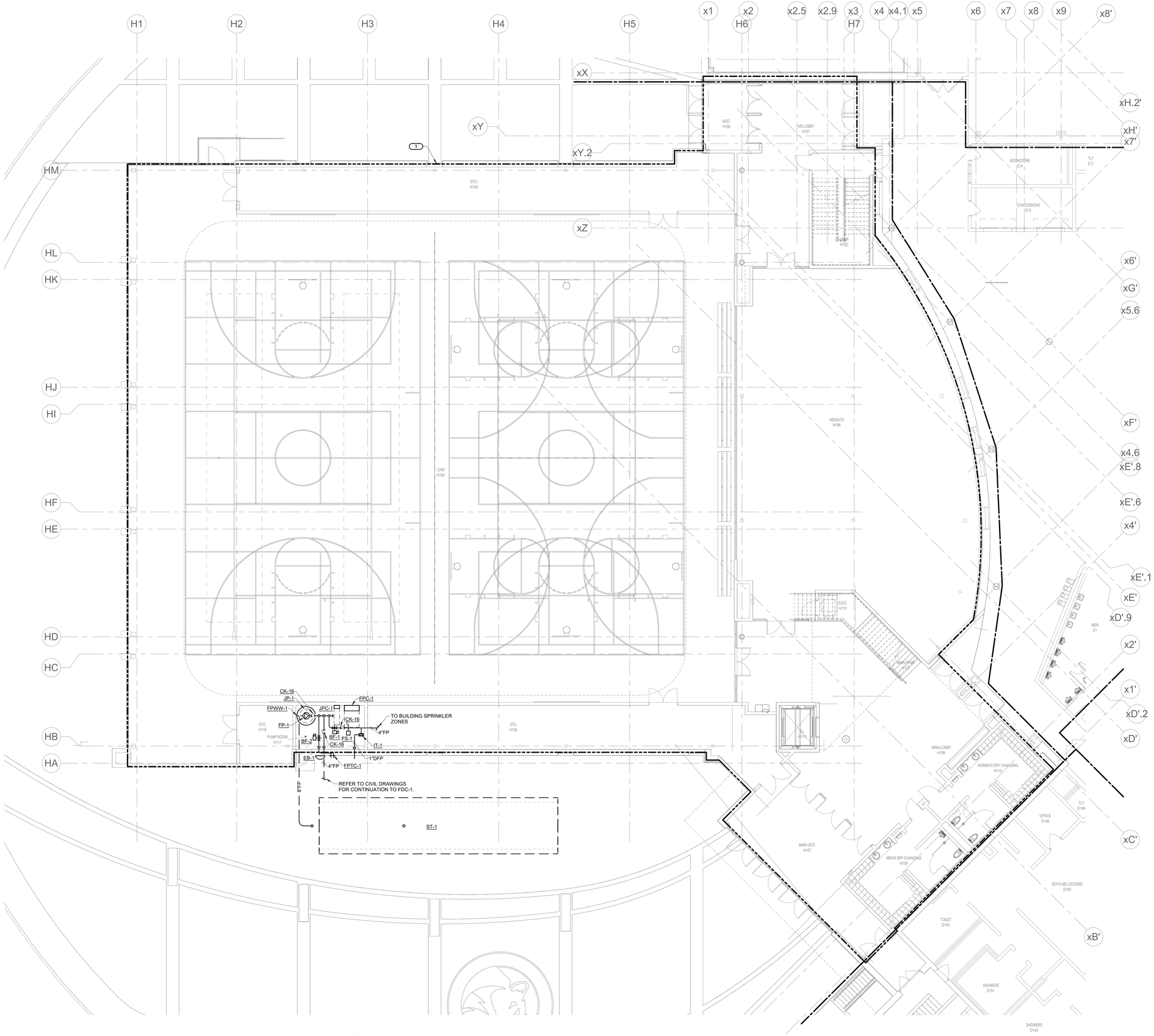


NORTH

1 GROUND FLOOR FIRE PROTECTION PLAN - AREA H

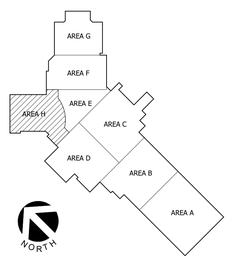
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET F0.0 FOR FIRE PROTECTION SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.
B. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, COORDINATION, AND INSTALLATION OF THE FIRE PROTECTION SYSTEM, INCLUDING INSTALLING NEW PIPING AS REQUIRED FOR A COORDINATED INSTALLATION. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH NFPA AND ALL OTHER STATE AND LOCAL CODES.

KEYNOTES: #

1. WITHIN THIS OUTLINED AREA, THE FIRE PROTECTION CONTRACTOR SHALL INSTALL NEW SPRINKLER MAINS, BRANCH PIPING, AND NEW HEADS AS REQUIRED TO COORDINATE WITH ARCHITECTURAL LAYOUT, MECHANICAL/ELECTRICAL/PLUMBING SYSTEMS, CEILING LAYOUT, AND OCCUPANCY REQUIREMENTS. PERFORM HYDRAULIC CALCULATIONS AND PROVIDE THE PROPER NUMBER OF SPRINKLER HEADS AND SPACING DESIGNED AND INSTALLED IN COMPLIANCE WITH NFPA AND ALL OTHER STATE AND LOCAL CODES.



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KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
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CHK	KDW

GROUND FLOOR FIRE PROTECTION PLAN - AREA H

F2.1H

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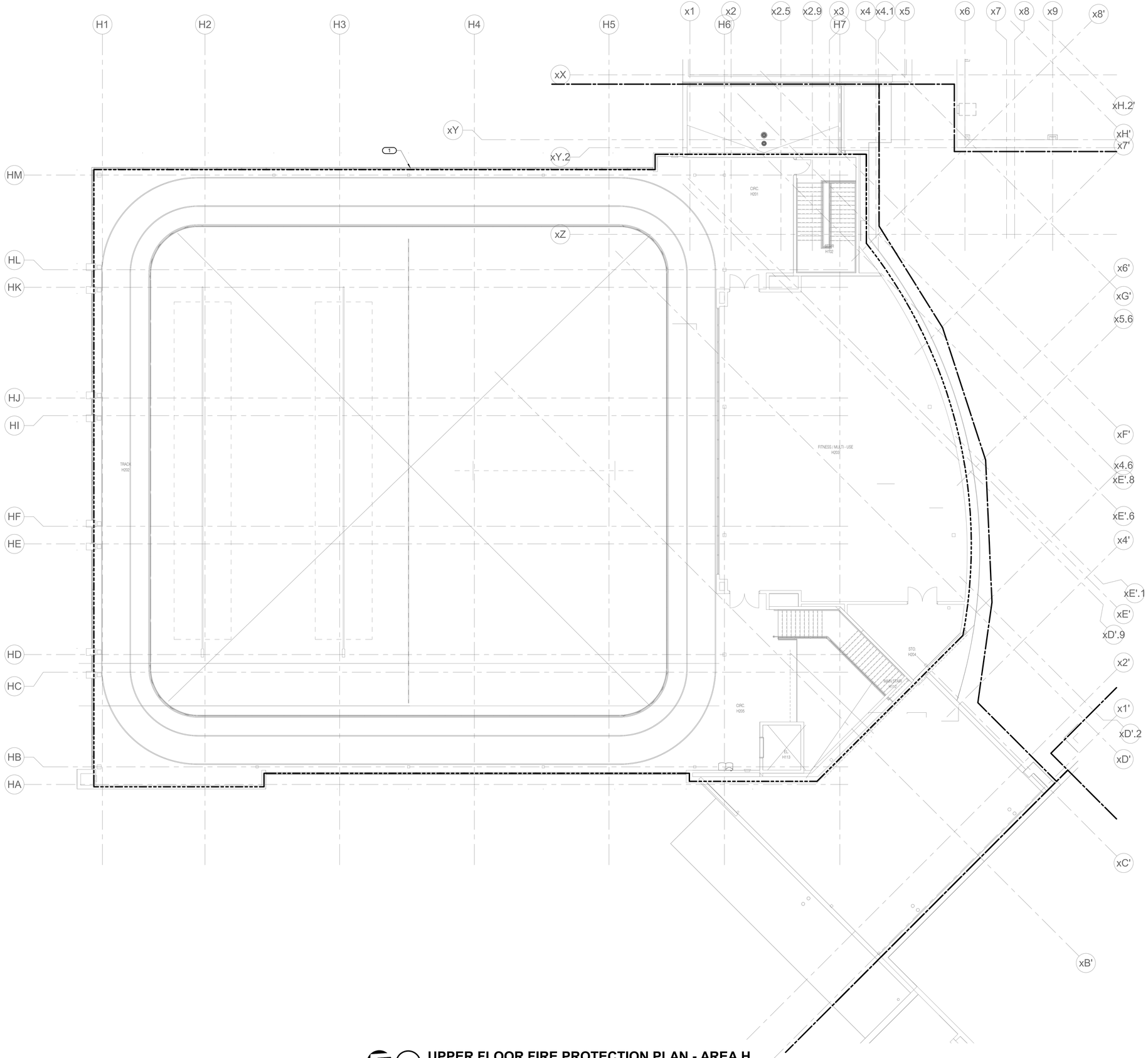


1 UPPER FLOOR FIRE PROTECTION PLAN - AREA H

1/8" = 1'-0"

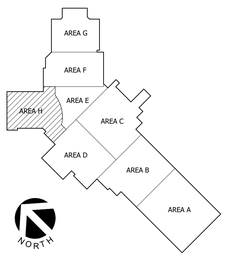
NORTH

GENERAL NOTES:

A. REFER TO SHEET F0.0 FOR FIRE PROTECTION SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.
B. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, COORDINATION, AND INSTALLATION OF THE FIRE PROTECTION SYSTEM, INCLUDING INSTALLING NEW PIPING AS REQUIRED FOR A COORDINATED INSTALLATION. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH NFPA AND ALL OTHER STATE AND LOCAL CODES.

KEYNOTES: #

1. WITHIN THIS OUTLINED AREA, THE FIRE PROTECTION CONTRACTOR SHALL INSTALL NEW SPRINKLER MAINS, BRANCH PIPING, AND NEW HEADS AS REQUIRED TO COORDINATE WITH ARCHITECTURAL LAYOUT, MECHANICAL/ELECTRICAL/PLUMBING SYSTEMS, CEILING LAYOUT, AND OCCUPANCY REQUIREMENTS. PERFORM HYDRAULIC CALCULATIONS AND PROVIDE THE PROPER NUMBER OF SPRINKLER HEADS AND SPACING DESIGNED AND INSTALLED IN COMPLIANCE WITH NFPA AND ALL OTHER STATE AND LOCAL CODES.



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REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

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CHK	KDW

UPPER FLOOR FIRE PROTECTION PLAN - AREA H

F2.3H

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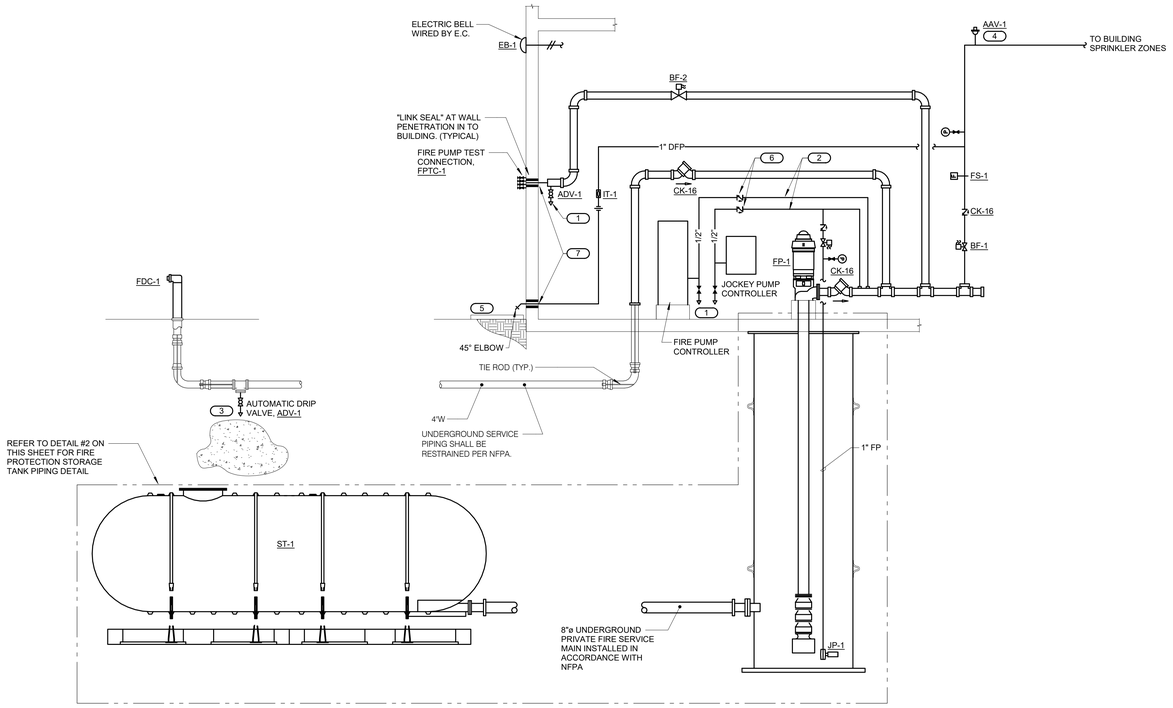
KEYNOTES: #

1. DISCHARGE DOWN OVER NEAREST FLOOR DRAIN WHERE FEASIBLE. OTHERWISE, DISCHARGE THROUGH WALL AND TERMINATE WITH DOWNWARD TURNED 45° ELBOW.
2. 1/2" PRESSURE SENSING PIPE. INSTALL PER NFPA REQUIREMENTS.
3. GRAVEL DRAIN FIELD SHALL BE SIZED TO ADEQUATELY ACCOMMODATE DRAINAGE FROM FIRE DEPARTMENT CONNECTION PIPING.
4. PROVIDE AUTOMATIC AIR VENT AT HIGH POINT OF WET SYSTEM. ROUTE DRAIN TO NEAREST FLOOR DRAIN.
5. PROVIDE CONCRETE SPLASHBLOCK AT GRADE.
6. INSTALL TWO CHECK VALVES PER NFPA IN EACH PRESSURE SENSING PIPE.
7. SEAL WALL PENETRATION WATERTIGHT. (TYPICAL)



1 FIRE PROTECTION RISER DIAGRAM

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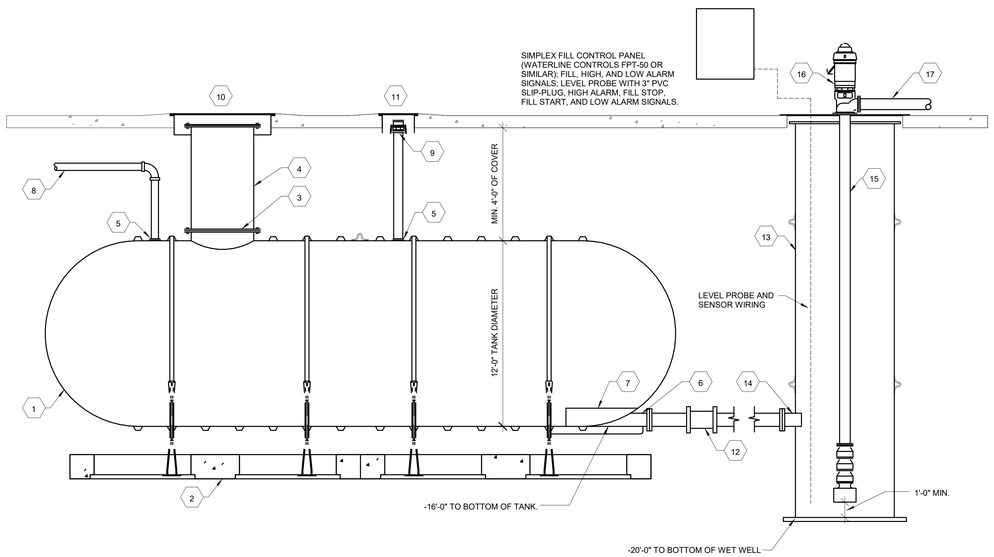

#	DESCRIPTION
1	SINGLE WALL FRP TANK
2	PRECAST DEADMAN SYSTEM W/ HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY
3	30" MANWAY WITH BLANK COVER
4	30" MANWAY EXTENSION
5	4" NPT SERVICE FITTING
6	8" TANGENTIAL FULL BOTTOM DRAIN NOZZLE
7	FRP ANTI-VORTEX PLATE
8	4" VENT PIPE
9	4" FILL W/CAM LOCK CONNECTION
10	48" ROUND MANHOLE
11	16" ROUND MANHOLE
12	8" FLEXIBLE CONNECTOR
13	48" FRP VERTICAL PUMP VAULT W/ LIFTING LUGS
14	8" VAULT INLET NOZZLE
15	6" VERTICAL PUMP SHAFT HOUSING W/ BOWL ASSEMBLY & STRAINER
16	VERTICAL PUMP W/ DISCHARGE HEAD & MOUNTING PLATE
17	DISCHARGE VALVE & PIPING

2 FIRE PROTECTION STORAGE TANK PIPING DETAIL

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CHK	KDW

FIRE PROTECTION DIAGRAMS

F7.0

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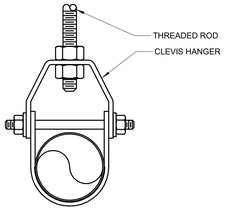
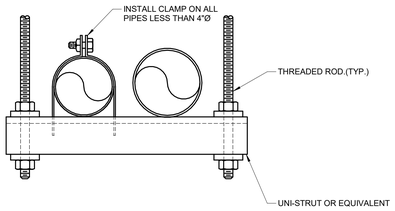
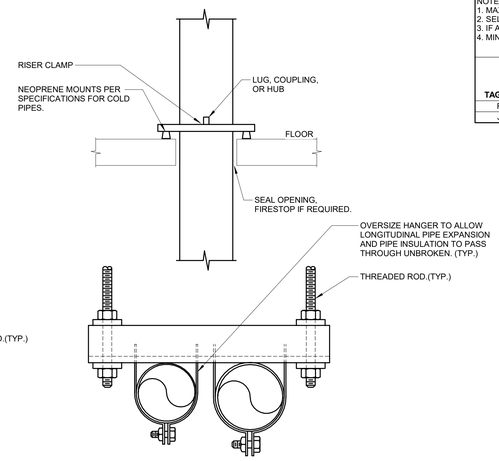


CLEVIS HANGER



TRAPEZE HANGER



STRUCT CLAMP HANGERS

NOTES:

1. REFER TO SPECIFICATION SECTION 21 05 29.

1 PIPE SUPPORTS

NO SCALE

FIRE PUMP SCHEDULE

NOTES:
1. MAXIMUM IN-RUSH CURRENT IS BASED ON THE SCHEDULED STARTER TYPE. PROVIDE THIS DATA WITH SUBMITTALS.
2. SELECTED PUMP PRESSURE AT ZERO FLOW PLUS AVAILABLE STATIC PRESSURE SHALL NOT EXCEED 175 PSI.
3. IF AN ALTERNATE MANUFACTURER IS USED, THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COST DUE TO LARGER OVERCURRENT PROTECTION DEVICES, WIRING, CONDUITS, ETC.
4. MINIMUM PERFORMANCE SHALL MEET FLOW AND PRESSURE REQUIREMENTS DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS.

			MINIMUM OPERATING PERFORMANCE (NOTE 4)							ELECTRICAL												
														DISCONNECT		CONTROLLER/ STARTER						
TAG NAME	RATED GPM	RATED PUMP PRESSURE (PSI)	GPM	INLET PRESSURE (PSI)	DISCHARGE PRESSURE (PSI)	PUMP HEAD AT NO FLOW (PSI) (NOTE 2)	INLET SIZE (IN)	OUTLET SIZE (IN)	IMPELLER SIZE (IN)	HP	RPM	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	SCCR	TRANSFER SWITCH BY	EMERGENCY POWER	PUMP MANUFACTURER	MODEL	NOTES
FP-1	500	76	320.0	7.8	83.8	86.6	6"	6"	6"	50	1465	480 V	3	MFR	NF	MFR	SS	10000	E.C.	Yes	PENTAIR	AURORA 11FGM	1, 3
JP-1	10	108	10.0	7.8	94	164	4"	1 1/4"	4"	0.5	3450	480 V	3	MFR	NF	MFR	FV	5000	E.C.	Yes	STA-RITE	HS	1, 3

FIRE SPRINKLER USAGE SCHEDULE

NOTES:
1. SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
2. SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
3. ALL SPRINKLERS SHALL BE UL-LISTED.
4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
5. TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
6. AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
7. SPRINKLERS SHALL HAVE A 3mm QUICK RESPONSE BULB.
8. SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE SPRINKLERS ARE PERMITTED PROVIDED SPRINKLERS MEET THE REQUIREMENTS OF UL AND FM.

		SPRINKLER						
AREA TYPE	AREA HAZARD	TAG NAME	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH	TEMPERATURE RATING	MANUFACTURER & MODEL	NOTES
AREAS WITH CEILINGS	SEE PLANS	SPR-1	CONCEALED	QUICK	WHITE	155	VIKING VK, RELIABLE G4A, TYCO RFII, VICTAULIC V3802	1, 2, 3, 4, 5, 6, 7, 8
AREA WITHOUT CEILINGS	SEE PLANS	SPR-2	UPRIGHT	QUICK	ROUGH BRASS	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704	1, 2, 3, 4, 5, 6, 7, 8

FIRE PROTECTION MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
AAV-1	AUTOMATIC AIR VENT, 175 PSI, CAST IRON BODY, STAINLESS STEEL ORIFICE, LINKAGE, AND FLOAT, CAST IRON VALVE COVER WITH GASKET, THREADED NPT INLET AND OUTLET, 1/2 BALL VALVE AND 1/2" STRAINER, UL/FM.	METRAFLEX MVC-15, POTTER PAV, AGF M7900AAV
ADV-1	AUTOMATIC DRIP VALVE, FOR USE ON INLET SIDE OF FDC OR PUMPER CONNECTION, 175 PSI, BRASS OR BRONZE BODY, STAINLESS STEEL OR BERYLLIUM COPPER SPRING AND RETAINING RING, MIN. CLOSING PRESSURE 7 PSI WITH INCREASING PRESSURE, MIN OPENING PRESSURE 5 PSI WITH DECREASING PRESSURE, 1/2" NPT INLET AND 1/4" NPT DRAIN OUTLET. VALVE ORIENTATION SHALL BE INSTALLED ACCORDING TO MFR. RECOMMENDATIONS, UL/FM	VIKING B-1, TYCO AD-2, RELIABLE MODEL C
BF-1	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE, DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, UL/FM. LUGGED OR WAFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.	NIBCO GD-4765-8N, VICTAULIC SERIES 705, TYCO BFV-300, KENNEDY G300, RELIABLE REL-BFG-300
BF-2	INDICATING BUTTERFLY VALVE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE, DUCTILE IRON BODY WITH PROTECTIVE COATING, ELECTROLESS NICKEL OR EPDM COATED DUCTILE IRON DISC, STAINLESS STEEL STEM AND SCREWS, CAST OR DUCTILE IRON HANDWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY MOUNTED INTEGRAL MONITOR SWITCHES, UL/FM. LUGGED OR WAFER VALVES ARE ACCEPTABLE PROVIDED THEY HAVE THE FEATURES LISTED ABOVE.	NIBCO GD-4765-8N, VICTAULIC SERIES 705, TYCO BFV-300, KENNEDY G300, RELIABLE REL-BFG-300
CK-16	SWING CHECK VALVE, 300 PSI WWP, GROOVED/FLANGED TYPE, DUCTILE IRON BODY, STAINLESS STEEL HINGE ASSOCIATED WITH RUBBER FACED CLAPPER, BRASS SEAT RING, ACCESS COVER, 1/2" OR 3/4" TAPPED BOSSES, VALVE LISTED FOR HORIZONTAL OR VERTICAL INSTALLATION, UL/FM. FLANGED TYPE IS ACCEPTABLE PROVIDED VALVE HAS THE FEATURES LISTED ABOVE.	VIKING G-1, TYCO CV-1F
EB-1	FIRE SPRINKLER ELECTRIC BELL - 10" GONG SIZE, RATED FOR INDOOR OR OUTDOOR USE, MINIMUM 82 dB AT 10 FEET, WEATHERPROOF RED STEEL COVER AND BACKBOX, UL/FM.	POTTER PBA120, SYSTEM SENSOR SSV
FDC-1	FREE STANDING TWO WAY FIRE DEPT. INLET CONNECTION, CAST BRASS ANGLE BODY WITH POLISHED BRASS FINISH, 4" OR 6" OUTLET WITH TWO 2-1/2" INLETS, PIN LUG SWIVELS, PLUGS AND CHAINS, IDENTIFICATION PLATE WITH SAME FINISH AS BODY LABELED "AUTO SPKR", 18" COVER SLEEVE WITH FINISH WITH SAME AS VALVE BODY, UL. HOSE THREAD TYPE SHALL MATCH LOCAL FIRE DEPARTMENT REQUIREMENTS. CONTRACTOR TO COORDINATE PURCHASE OF LOCKING CAPS WITH LOCAL FIRE DEPARTMENT.	FDC: POTTER ROEMER 5060 SERIES, ELKHART BRASS MODEL 15-2W, CROKER MODEL 6510/6512, GUARDIAN 6224, 6226 LOCKING CAP: KNOX COMPANY 3041
FPC-1	FIRE PUMP CONTROLLER WITH TRANSFER SWITCH - REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION	REFER TO SPECIFICATIONS
FPTC-1	FLUSH TWO WAY FIRE PUMP TEST OUTLET CONNECTION, CAST BRASS OR DUCTILE IRON BODY WITH POLISHED CHROME FINISH, 4" INLET WITH TWO 2-1/2" OUTLETS, BRASS NON RISING STEM HOSE VALVES, 3" FEMALE NPT INLET x 2-1/2" MALE HOSE THREAD OUTLETS, CAPS AND CHAINS, WALL PLATE WITH SAME FINISH AS BODY LABELED "PUMP TEST CONNECTION".	POTTER ROEMER 5862, CROKER 6802, GUARDIAN SERIES 6724-6726
FPWW-1	FIRE PUMP WET WELL - FIBERGLASS CONSTRUCTION, 48" DIAMETER x 20' DEEP, ANCHOR FLANGE, 8" INLET CONNECTION	XERXES OR APPROVED EQUAL
FS-1	FLOW SWITCH - VANE TYPE, 450 PSI, FLOW SENSITIVITY OF 4-10 GPM, TWO SINGLE POLE DOUBLE THROW SWITCHES, PNEUMATIC RETARD ADJUSTABLE FROM 0-90 SECONDS WITH AUTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR RATED METAL HOUSING, UL/FM.	POTTER VSR, SYSTEM SENSOR WFD
IT-1	COMBINATION INSPECTOR'S TEST AND DRAIN VALVE, 300 PSI, INTEGRAL SIGHT GLASS, BALL VALVE PLATE INDICATING OFF-TEST-DRAIN POSITIONS, FURNISHED WITH TEST ORIFICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE SYSTEM, PRESSURE RELIEF VALVE, UL/FM.	AGF M1011A, RELIABLE MODEL TD, VICTAULIC SERIES UTD
JPC-1	JOCKEY PUMP CONTROLLER - REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION	REFER TO SPECIFICATIONS
ST-1	FIRE PROTECTION STORAGE TANK: FIBERGLASS REINFORCED PLASTIC UNDERGROUND FIRE PROTECTION WATER STORAGE TANK SUITABLE FORE DIRECT BURIED APPLICATION. SIZED FOR 20,000 GALLON NOMINAL STORAGE. MAXIMUM TANK DIAMETER OF 8'. REFER TO SPECIFICATION 21 13 00 FOR MORE DETAIL.	XERXES, DARCO OR APPROVED EQUAL.

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.
TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
CB = CIRCUIT BREAKER
F = FUSED
NF = NON-FUSED
PLUG = PLUG AND CORD

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
YD = WYE - DELTA
ECM = ELECTRONICALLY COMMUTATED MOTOR

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS
NO. DATE DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

FIRE PROTECTION DETAILS & SCHEDULES

F8.0

1/29/2025 2:37:38 PM

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED. SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE
NORTH

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON
SIM
M101
T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2014 EDITION	WITH AMENDMENTS
FIRE CODE:	IFC 2012 EDITION	WITH AMENDMENTS
PLUMBING CODE:	IPC 2012 EDITION	WITH AMENDMENTS
MECHANICAL CODE:	IMC 2014 EDITION	WITH AMENDMENTS
ELECTRICAL CODE:	IEC 2009 EDITION (NFPA 70-2008)	WITH AMENDMENTS

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

PLUMBING SHEET INDEX

P0.0	PLUMBING COVERSHEET
P1.1	GROUND FLOOR PLUMBING DEMOLITION PLAN - OVERALL
P1.1H	GROUND FLOOR PLUMBING DEMOLITION PLAN - AREA H
P2.0H	FOUNDATION PLUMBING PLAN - AREA H
P2.1	GROUND FLOOR PLUMBING PLAN - OVERALL
P2.1E	GROUND FLOOR PLUMBING PLAN - AREA E
P2.1H	GROUND FLOOR PLUMBING PLAN - AREA H
P2.3	UPPER FLOOR PLUMBING PLAN - OVERALL
P2.3H	UPPER FLOOR PLUMBING PLAN - AREA H
P2.4	ROOF PLUMBING PLAN - OVERALL
P2.4H	ROOF PLUMBING PLAN - AREA H
P6.0	PLUMBING DETAILS
P8.0	PLUMBING SCHEDULES
GRAND TOTAL: 13	

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
AV	ACID VENT
AW	ACID WASTE
CA	COMPRESSED AIR
CW	COLD WATER - POTABLE
D	DRAIN
DI	DEIONIZED WATER
DT	DRAIN TILE
G	NATURAL GAS
GRV	GAS REGULATOR VENT
GSAN	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
GV	GREASE VENT
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
HW140	HOT WATER - POTABLE NUMBER INDICATES TEMP
HWC140	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
NCW	NON-POTABLE COLD WATER
NHW	NON-POTABLE HOT WATER
P	PROPANE GAS
PD	PUMPED DISCHARGE
PW	PURE WATER
RO	REVERSE OSMOSIS WATER
SAN	SANITARY DRAINAGE
SCW	SOFT COLD WATER
SHW	SOFT HOT WATER
ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
STS	STORM DRAINAGE (SECONDARY)
STW	SOFT TEMPERED WATER
TW	TEMPERED WATER
V	VENT
W	SERVICE WATER - POTABLE
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
GPM	BALANCING VALVE (NUMBER INDICATES GPM)
	CHECK VALVE
	BACKFLOW PREVENTER
	SOLENOID VALVE
	SAFETY/RELIEF VALVE
	SAFETY RELIEF VALVE W/ DRIP PAN ELBOW
	VACUUM BREAKER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PUMP
M	METER
	AIR ADMITTANCE VALVE

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DN	DOWN
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
L or LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UON	UNLESS OTHERWISE NOTED
YCO	YARD CLEANOUT

PLUMBING SLOPE REQUIREMENTS:

INTERIOR:

SANITARY WASTE:	≤2-1/2"ø=1/4" PER FOOT ≥3"ø = 1/8" PER FOOT ≥8"ø = 1/16" PER FOOT
GREASE WASTE:	1/4" PER FOOT
STORM (GRAVITY):	1/8" PER FOOT
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT
SANITARY AND GREASE VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINUMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
EWC-1	ELECTRIC WATER COOLER (ACCESSIBLE)	1/2"	-	1 1/2"	1 1/2"
L-1	LAVATORY (ACCESSIBLE)	1/2"	1/2"	1 1/2"	1 1/2"
UR-1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"
WC-1	WATER CLOSET	1 1/2"	-	4"	2"
WC-2	WATER CLOSET (ACCESSIBLE)	1 1/2"	-	4"	2"

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
12. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

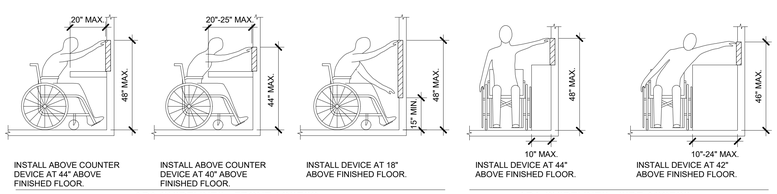
PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.



INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

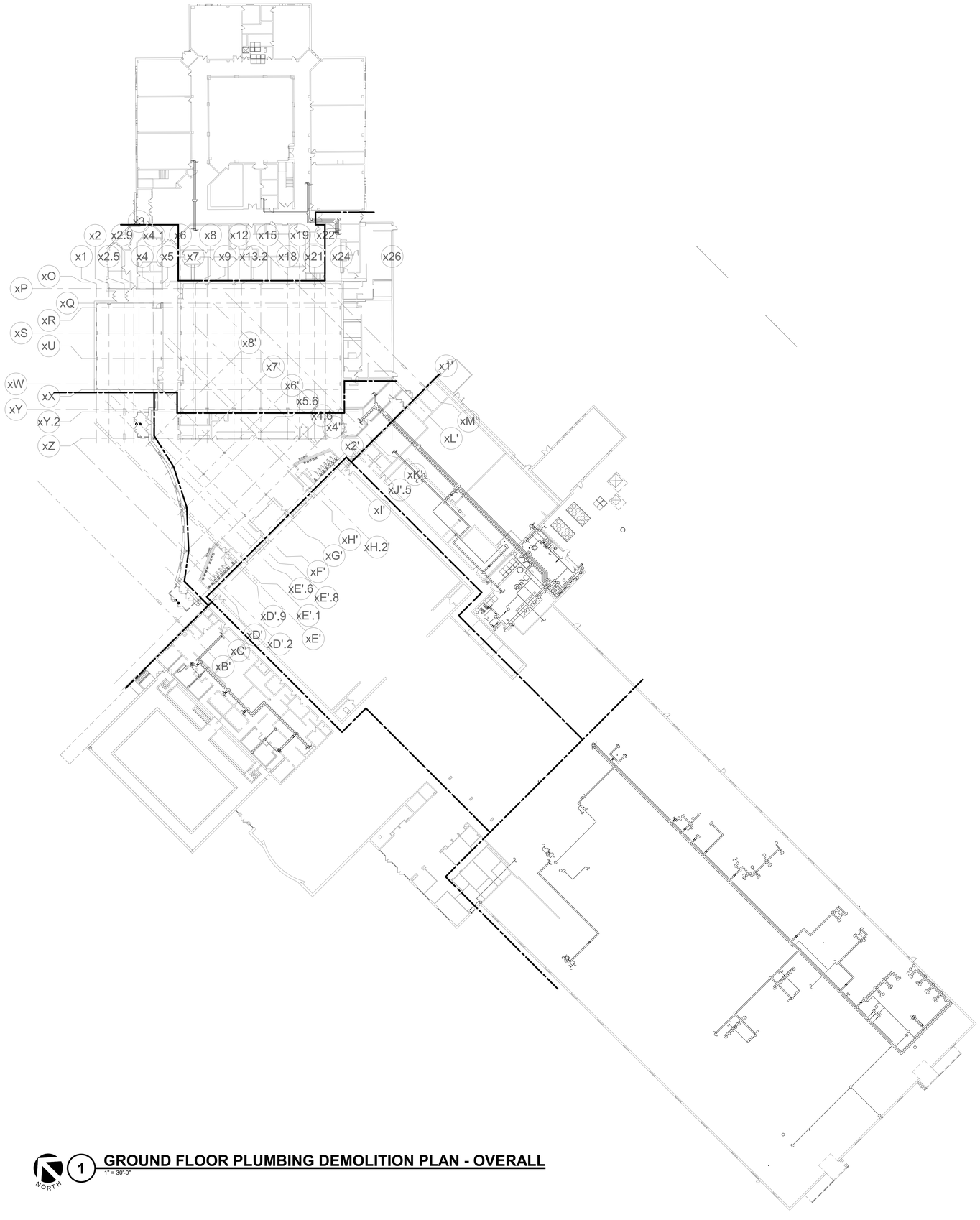
REVISIONS
NO. DATE DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR MAM
CHK KDW

PLUMBING COVERSHEET

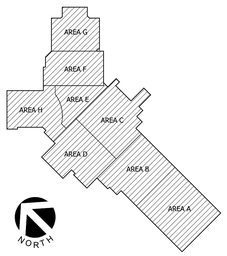
P0.0

1/29/2025 2:42:12 PM



1 **GROUND FLOOR PLUMBING DEMOLITION PLAN - OVERALL**

1" = 30'-0"



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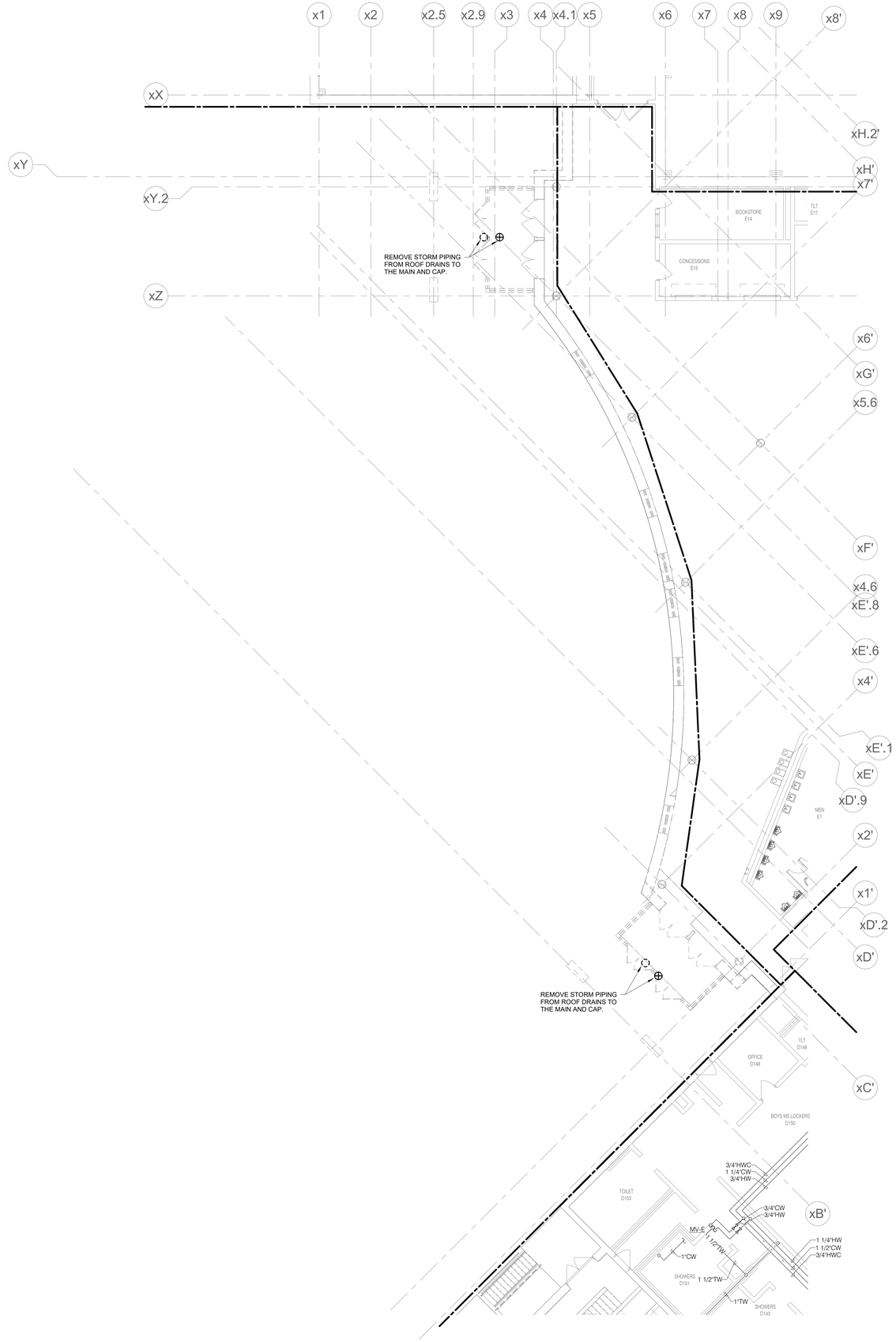
CHK	KDW

GROUND FLOOR
PLUMBING
DEMOLITION PLAN
- OVERALL

P1.1

1/29/2025 2:42:22 PM



NORTH

1 **GROUND FLOOR PLUMBING DEMOLITION PLAN - AREA H**

1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET P0.0 FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

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GROUND FLOOR PLUMBING DEMOLITION PLAN - AREA H

P1.1H

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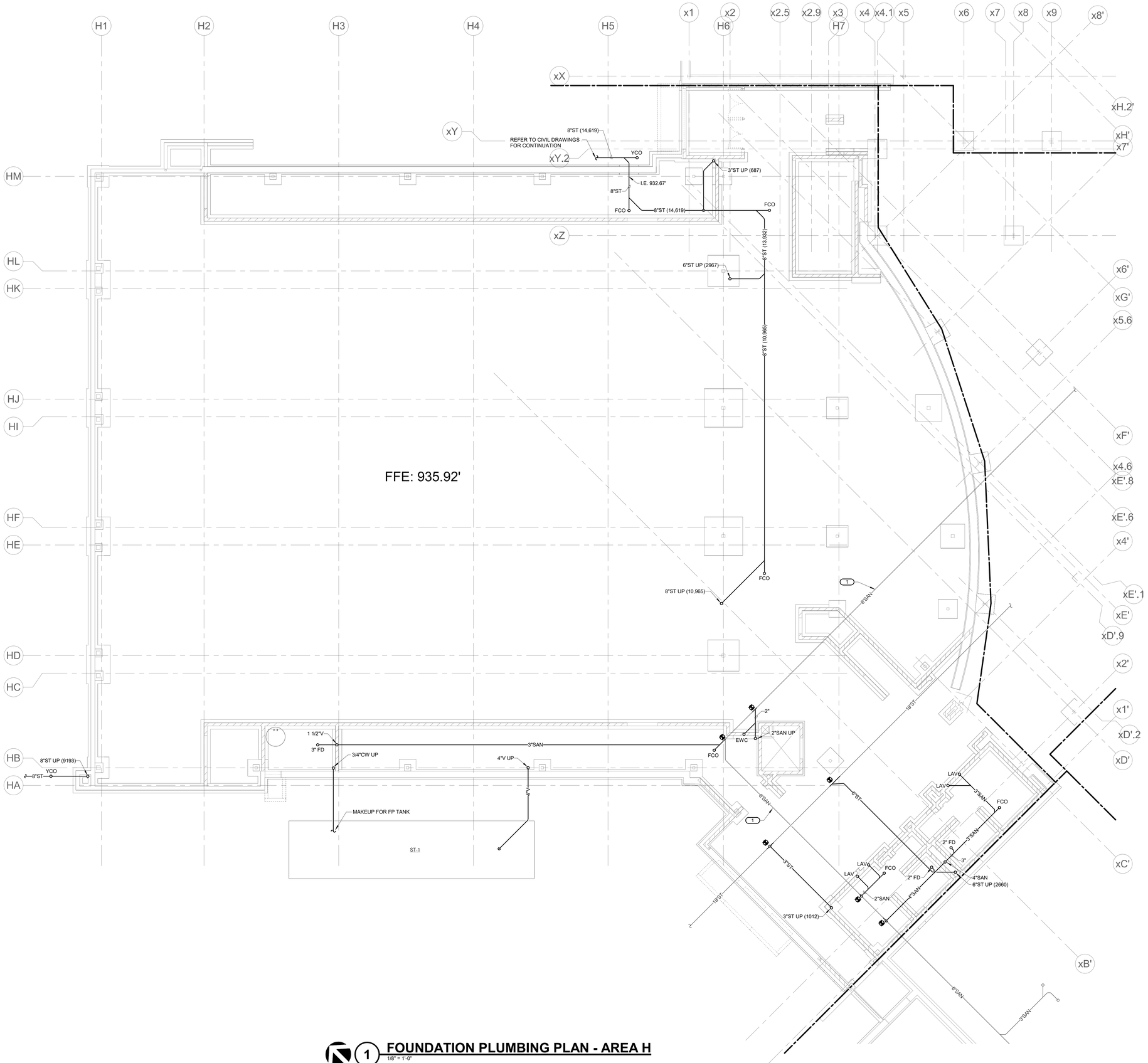

1 FOUNDATION PLUMBING PLAN - AREA H

1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET P0.0 FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

KEYNOTES: (#)

1. THE PLUMBING CONTRACTOR SHALL FIELD-VERIFY EXISTING PLUMBING LINE LOCATION AND PIPE MATERIAL.

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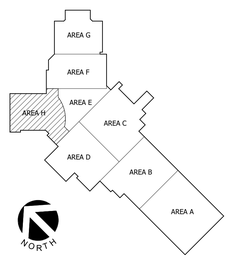

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FOUNDATION PLUMBING PLAN - AREA H

P2.0H

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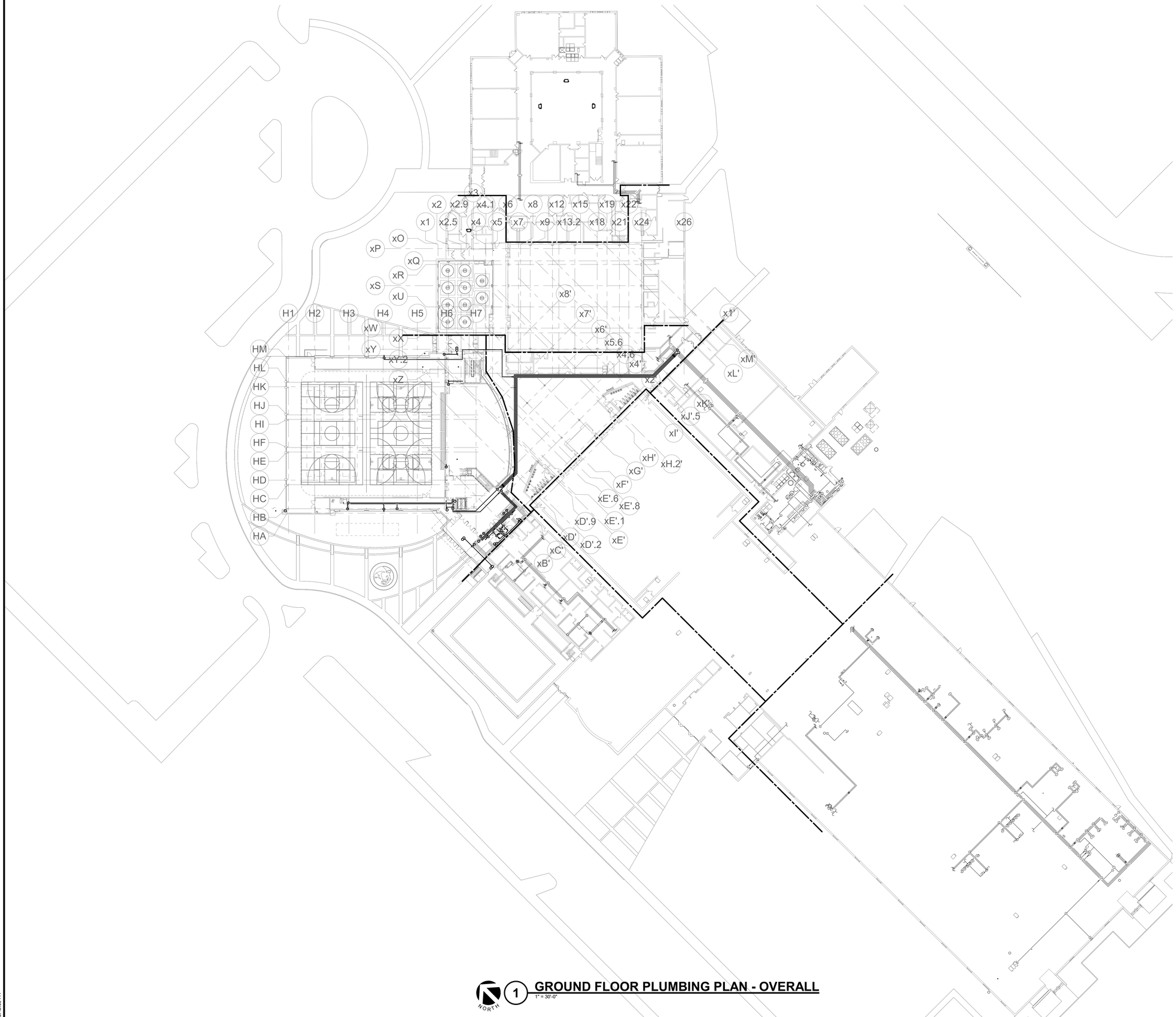
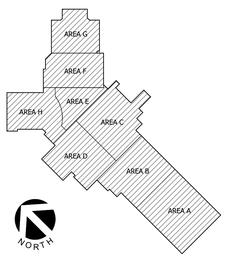


1 **GROUND FLOOR PLUMBING PLAN - OVERALL**

1" = 30'-0"

NORTH



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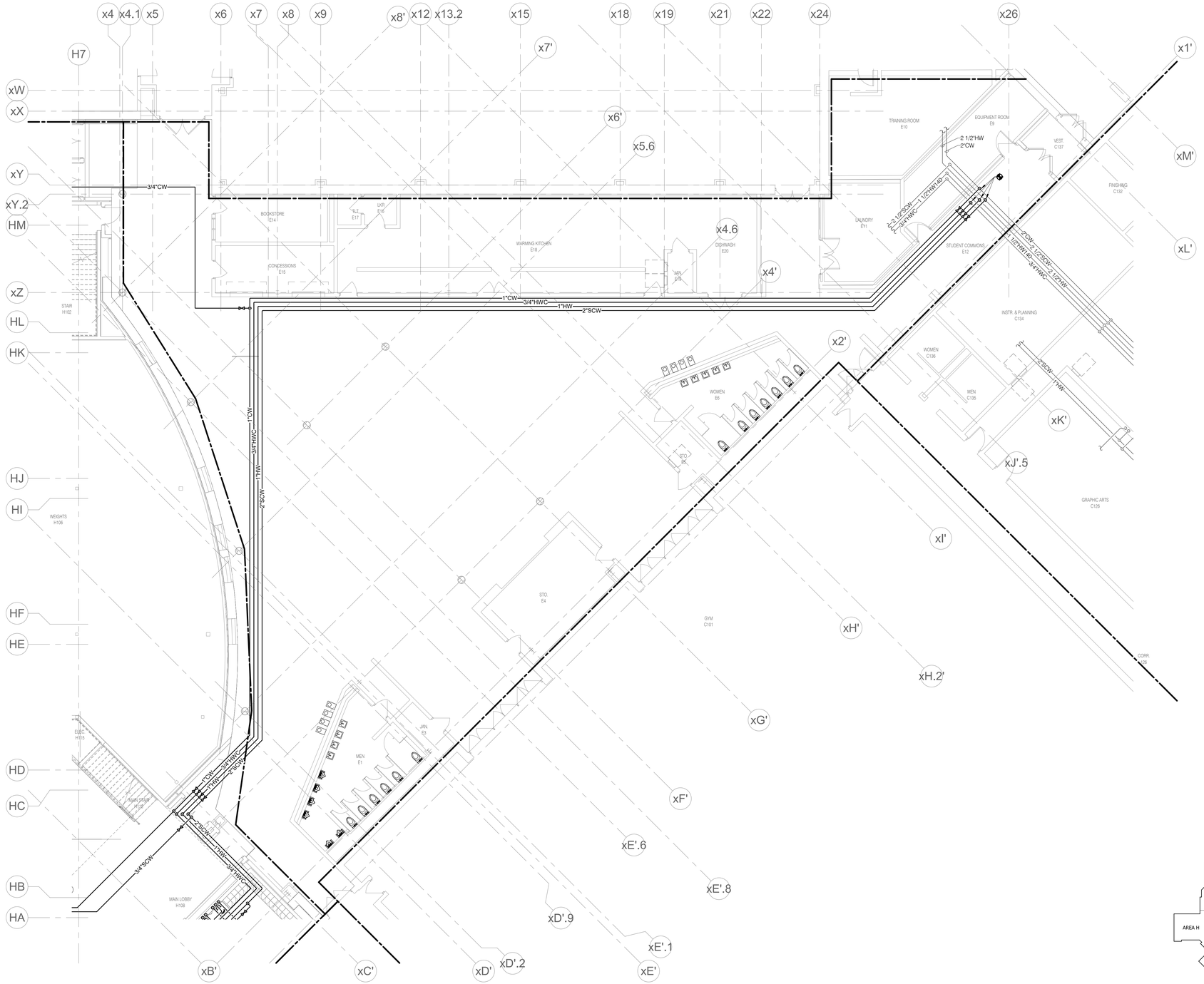
GROUND FLOOR PLUMBING PLAN - OVERALL

P2.1

1/29/2025 2:42:38 PM

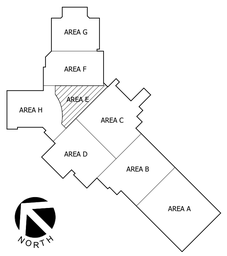
GENERAL NOTES:

A. REFER TO SHEET P0.0 FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR PLUMBING PLAN - AREA E

1/8" = 1'-0"



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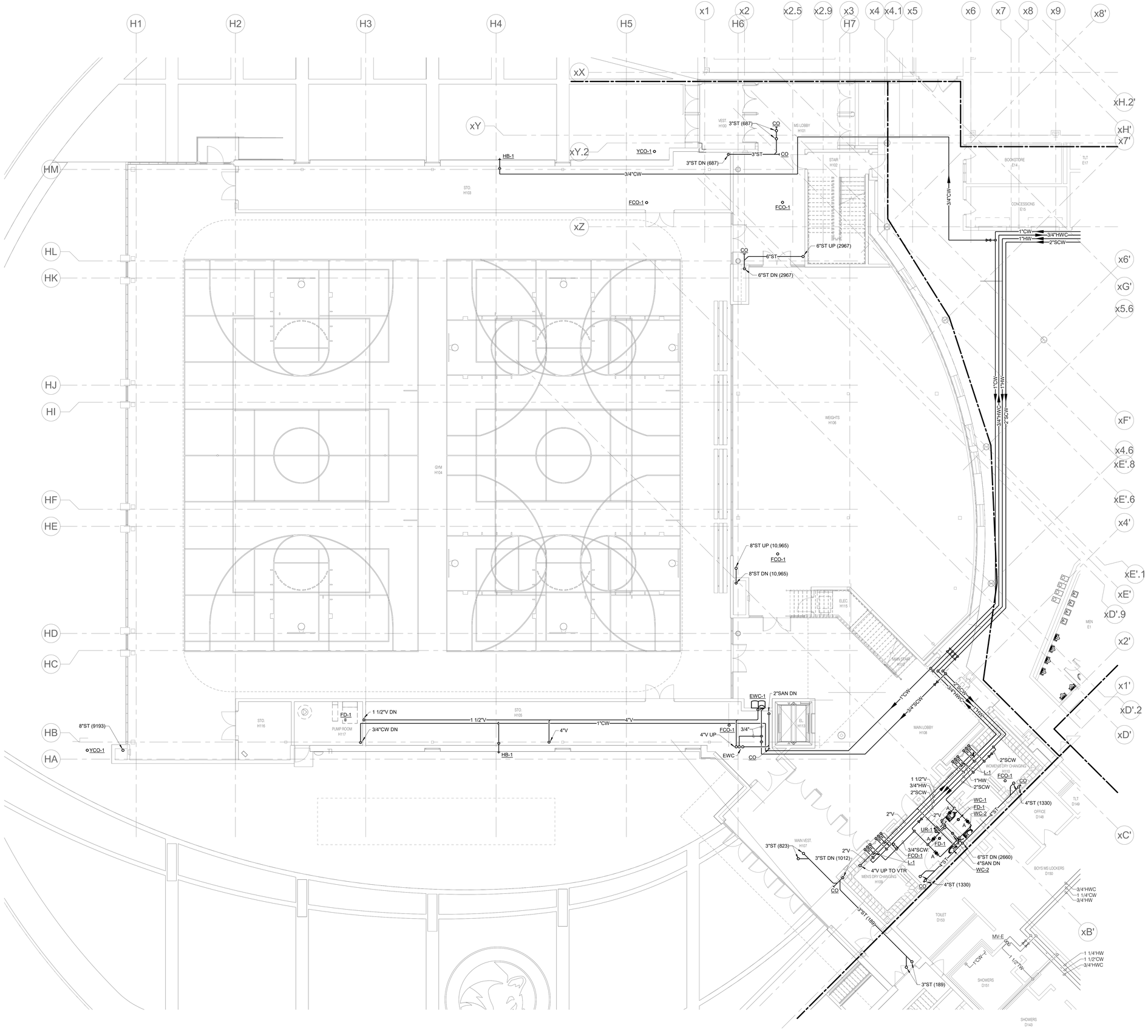
GROUND FLOOR PLUMBING PLAN - AREA E

P2.1E

1/29/2025 3:12:39 PM

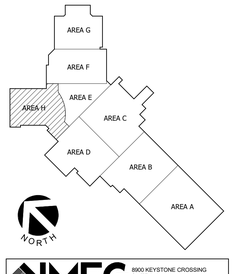
GENERAL NOTES:

A. REFER TO SHEET P0.0 FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR PLUMBING PLAN - AREA H

1/8" = 1'-0"



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GROUND FLOOR PLUMBING PLAN - AREA H

P2.1H

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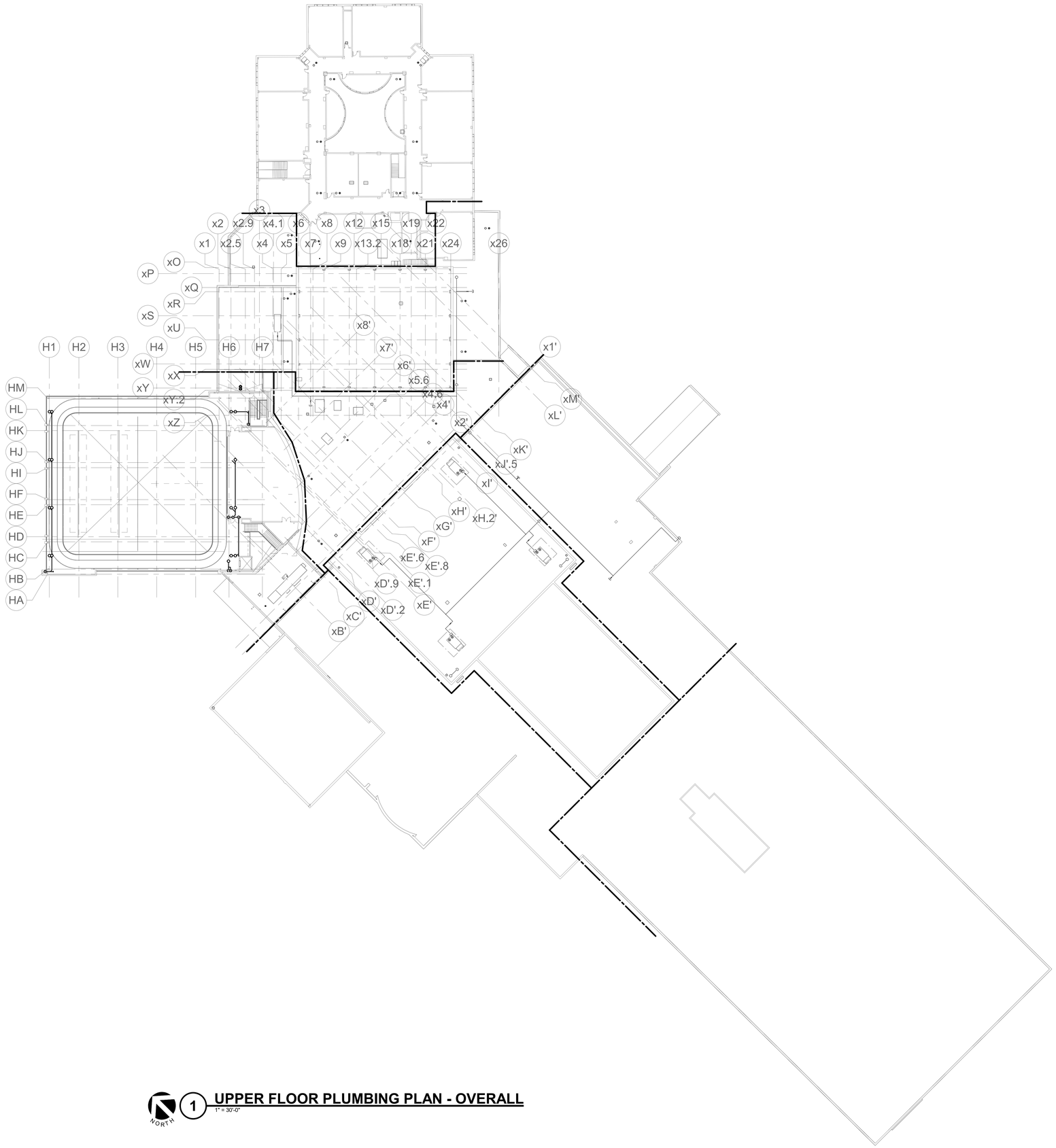
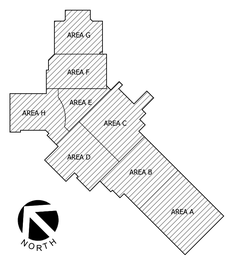


1 **UPPER FLOOR PLUMBING PLAN - OVERALL**

1" = 30'-0"



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UPPER FLOOR PLUMBING PLAN - OVERALL

P2.3

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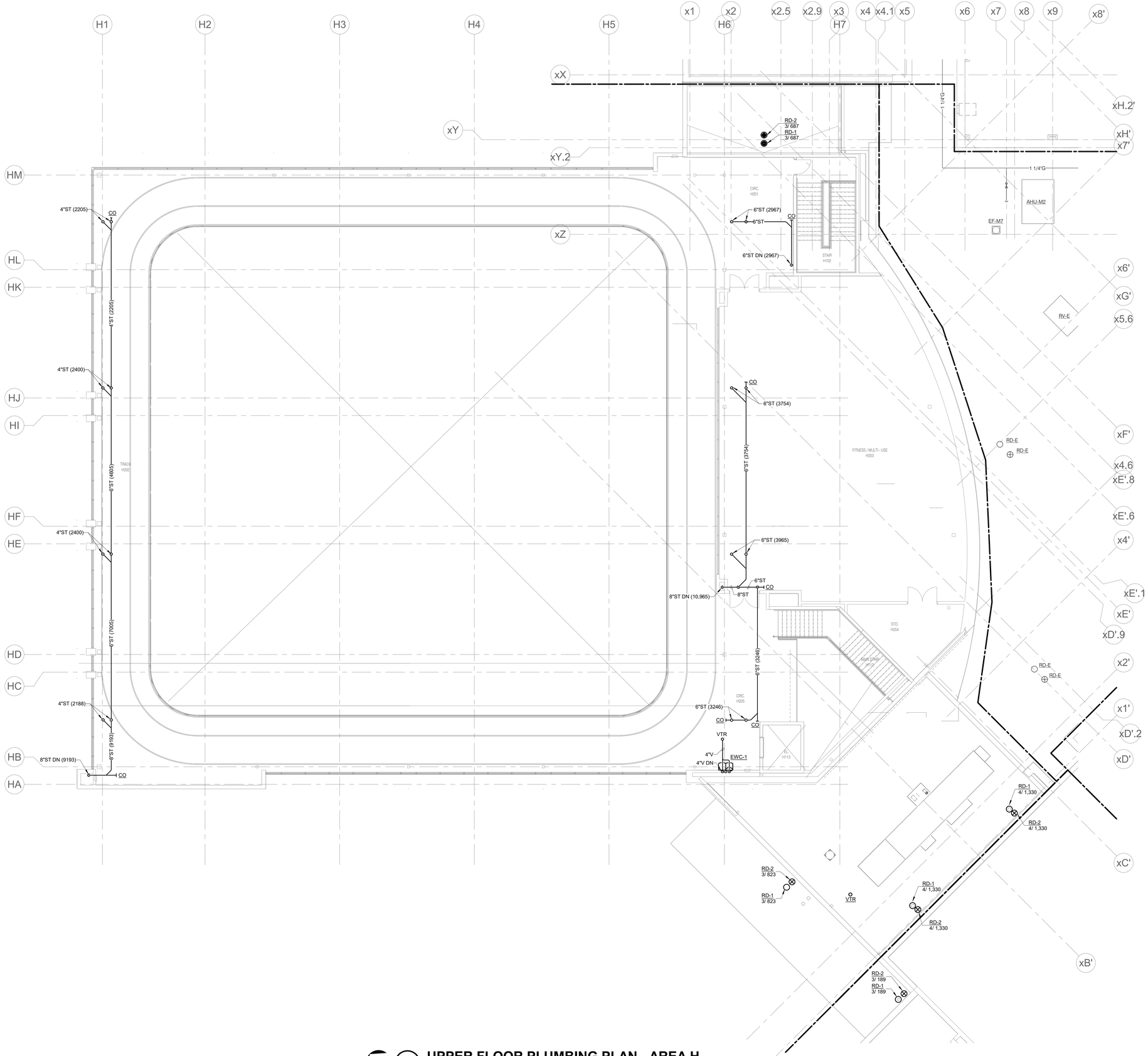
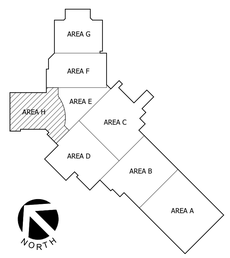
GENERAL NOTES:

A. REFER TO SHEET P0.0 FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 UPPER FLOOR PLUMBING PLAN - AREA H

1/8" = 1'-0"



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CHK	KDW

UPPER FLOOR PLUMBING PLAN - AREA H

P2.3H

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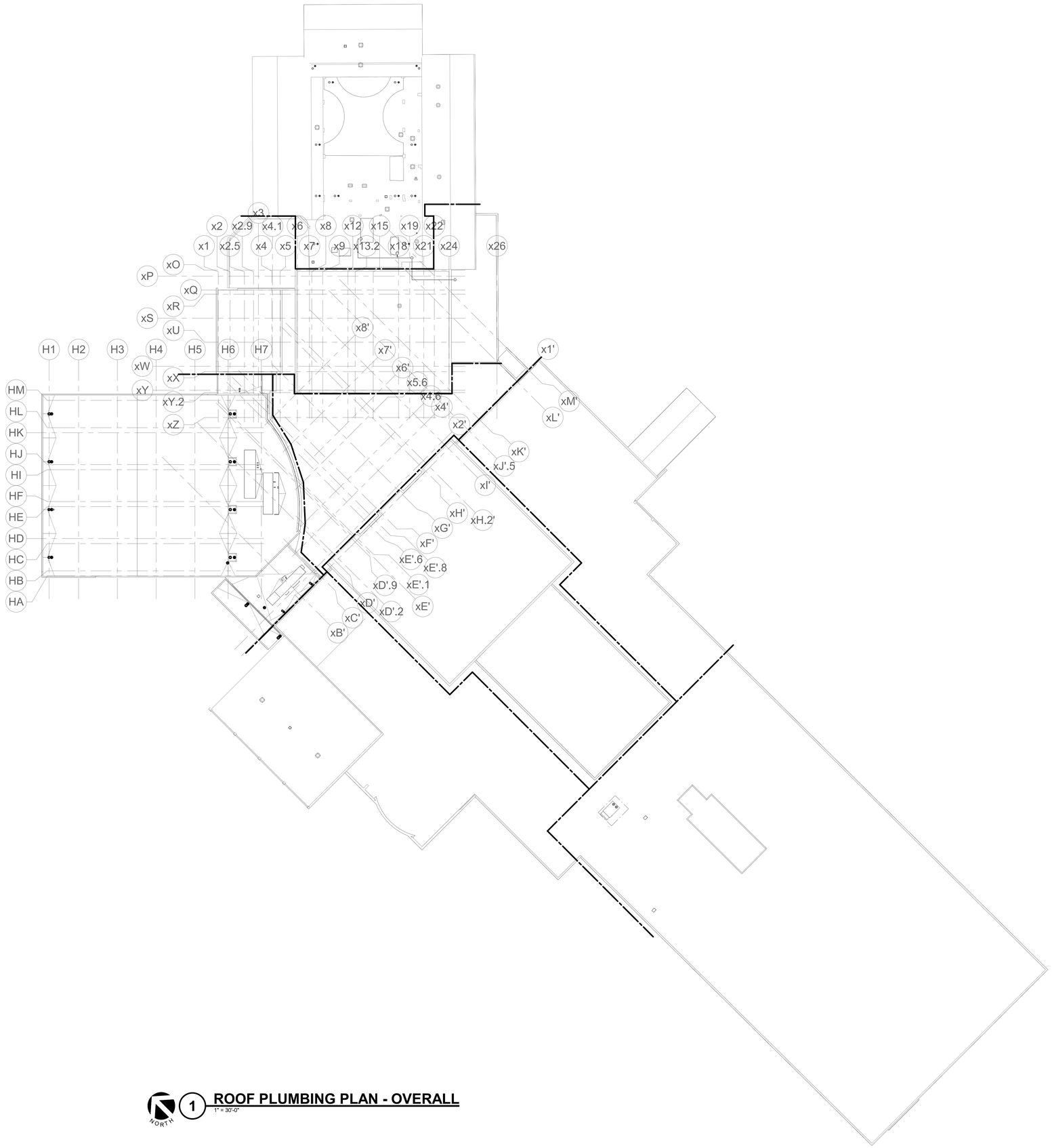
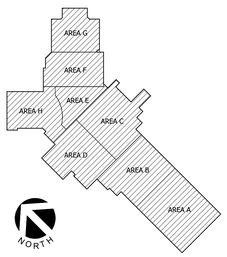


1 **ROOF PLUMBING PLAN - OVERALL**
1" = 30'-0"



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01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

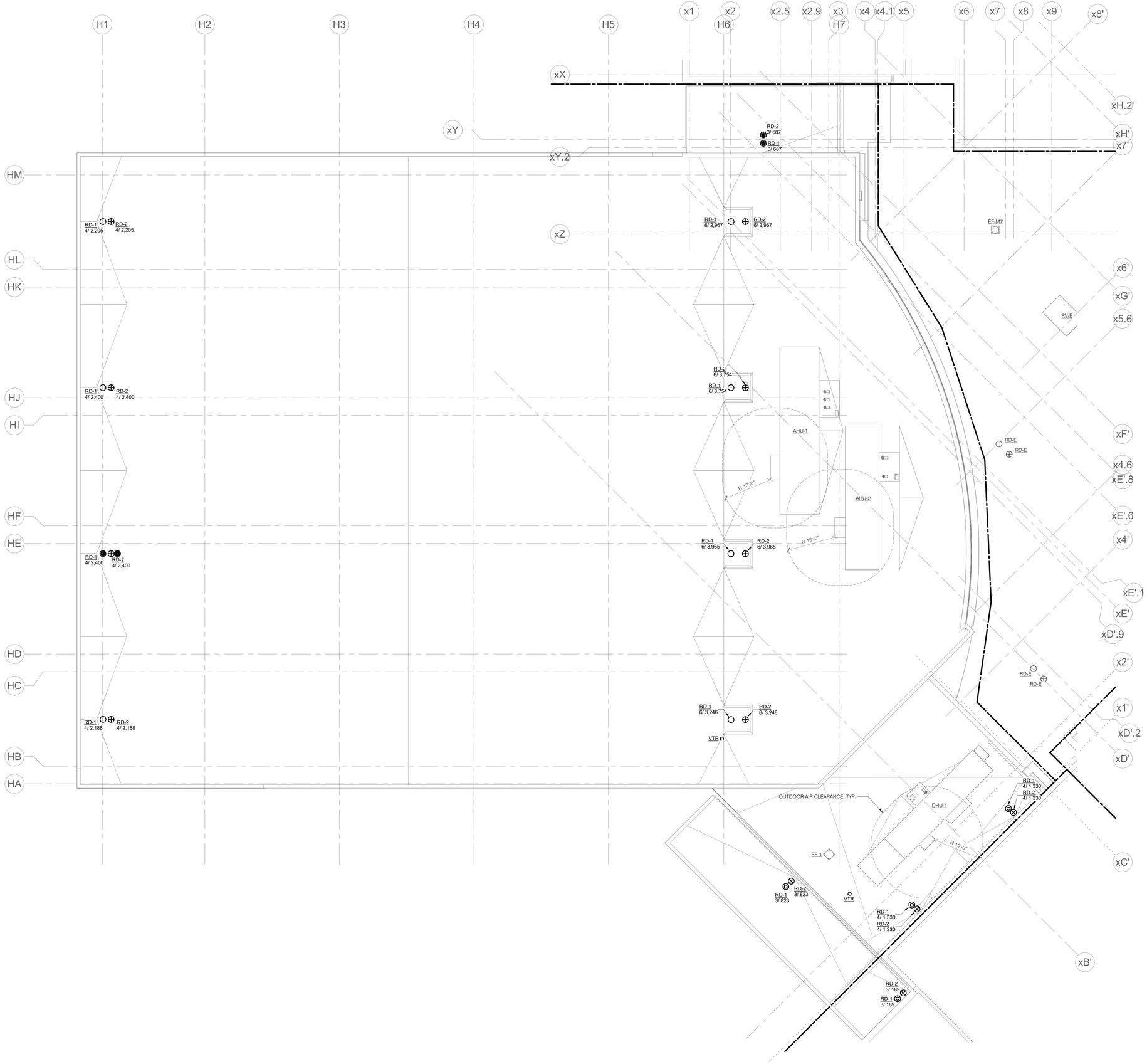
ROOF PLUMBING PLAN - OVERALL

P2.4

1/29/2025 2:43:01 PM

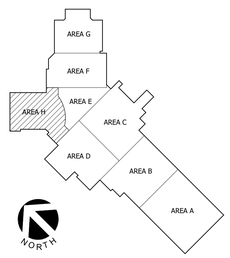
GENERAL NOTES:

A. REFER TO SHEET P0.0 FOR PLUMBING SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 ROOF PLUMBING PLAN - AREA H

1/8" = 1'-0"



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REF. SCALE IN INCHES

PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

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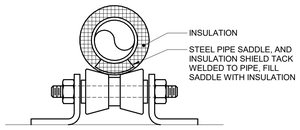
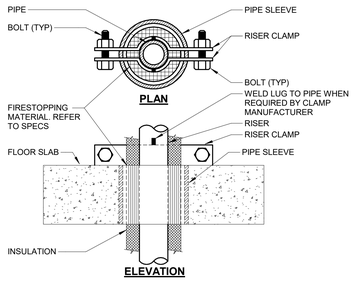
ROOF PLUMBING PLAN - AREA H

P2.4H

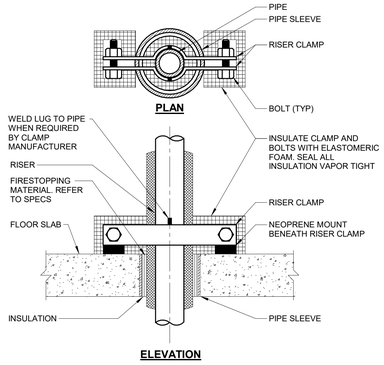
1/29/2025 3:27:37 PM



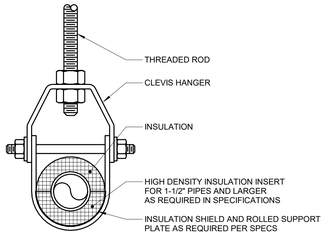
INSULATED HOT PIPE 4" AND LARGER



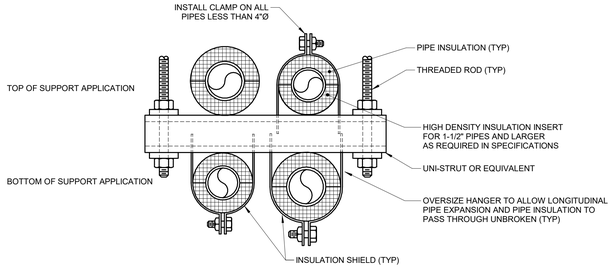
INSULATED HOT PIPE RISER SUPPORT



INSULATED COLD PIPE RISER SUPPORT



INSULATED COLD PIPE HANGER



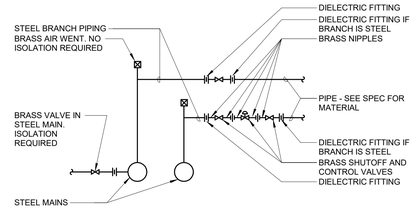
TRAPEZE HANGER

NOTES:

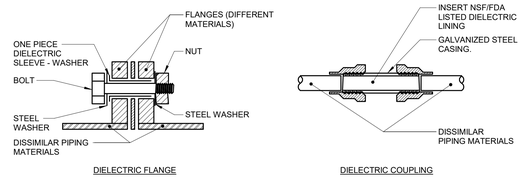
1. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

1 PIPE - HANGERS AND SUPPORTS

NO SCALE



USE OF DIELECTRIC FITTINGS



DIELECTRIC FLANGE

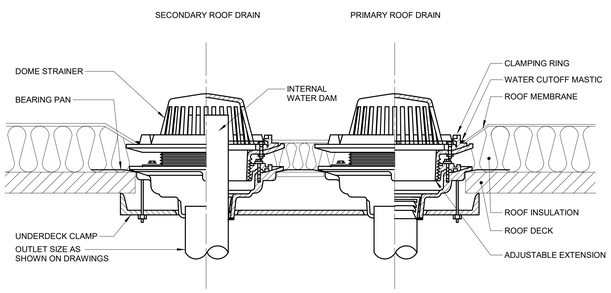
DIELECTRIC COUPLING

NOTES:

1. DIELECTRIC UNIONS ARE NOT ACCEPTABLE

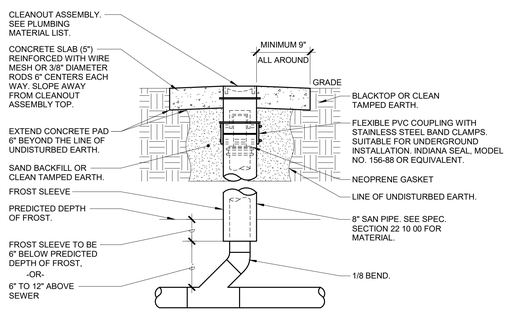
2 PIPE - DIELECTRIC CONNECTION

NO SCALE



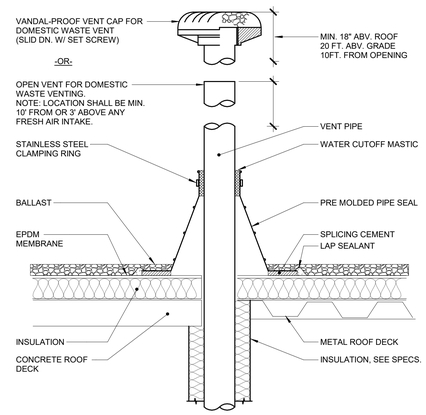
3 ROOF DRAIN

NO SCALE



4 YARD CLEANOUT

NO SCALE



NOTES:

1. VENT PIPE SHALL BE A MINIMUM OF 4" DIAMETER UNLESS NOTED LARGER ON FLOOR PLANS. INCREASERS, IF REQUIRED TO TRANSITION TO THE LARGER VTR SIZE, MUST BE INSTALLED AT LEAST 12" BELOW THE THERMAL ENVELOPE OF THE BUILDING.
2. EXTEND VENT PIPE AT LEAST 7' ABOVE ROOF LEVEL WHEN ROOF AREA IS INTENDED TO BE USED BY THE GENERAL PUBLIC. THIS INCLUDES PROMENADES, OBSERVATION DECKS, ETC. THIS IS NOT REQUIRED FOR ROOFS THAT ARE ACCESSIBLE BY MAINTENANCE PERSONNEL ONLY.

5 VENT PIPE FLASHING

NO SCALE

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KYLE D. WILSON
REGISTERED
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Date	31 JAN 2025
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PLUMBING DETAILS

P6.0

1/29/2025 2:43:07 PM

PLUMBING (WITH POWER) MATERIAL LIST

TAG NAME	DESCRIPTION	ELECTRICAL																MANUFACTURER AND MODEL
		WATTS	# OF STAGES	TOTAL (QTY*KW)		HP (NOTE E)	FLA	MCA	MOCP	VOLTAGE	# PHASES	SCCR	# OF WIRES	DISCONNECT		CONTROLLER /STARTER		EMERGENCY POWER	
				QTY	KW									BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)		
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH, STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874. BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR. UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG. ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - CORD AND PLUG, PLAIN RECEPTACLE MOUNTED WITHIN EWC LOWER ENCLOSURE, GFCI BREAKER.	0				0.2	0	0	0	120	1	0	0	EC	PLUG	0	0	No	ELECTRIC WATER COOLER -ELKAY (LZST), OASIS (PG8EBFSL), MURDOCK (A172408F-UG-BF12)

PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. PROVIDE RIGID INSERT AT HANGERS. SEE SPEC. FOR MORE DETAILS.
5. APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION.
6. APPLY INSULATION ONLY TO LOW TEMP DRAINS (55°F AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.).
7. APPLY INSULATION ONLY TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55°F AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.).
8. APPLY INSULATION ONLY TO HORIZONTAL PIPES AND DRAIN BODIES.

PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE					NOTES
		< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
22 PLUMBING - OTHER							
MISC RELIEF VENTS, INTAKES, AND DISCHARGES	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4, 5
22 PLUMBING - WASTE							
D - DRAIN - PLUMBING	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4, 6
SAN - SANITARY DRAINAGE	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4, 7
ST - STORM DRAINAGE	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4, 8
STS - STORM DRAINAGE - SECONDARY	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4, 8
V - VENT	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4, 5
22 PLUMBING - WATER							
CW - COLD WATER - POTABLE	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4
HW - HOT WATER - POTABLE	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	1, 2, 3, 4
HWC - HOT WATER CIRCULATING - POTABLE	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	1, 2, 3, 4
NCW - NON-POTABLE COLD WATER	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4
NHW - NON-POTABLE HOT WATER	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	1, 2, 3, 4
SCW - SOFT COLD WATER	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	1, 2, 3, 4
SHW - SOFT HOT WATER	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	1, 2, 3, 4
STW - SOFT TEMPERED WATER	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	1, 2, 3, 4
TW - TEMPERED WATER - POTABLE	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	1, 2, 3, 4

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS: UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP TILE OR TERRAZZO - SQUARE RECESSED TOP CARPET - ROUND TOP WITH CARPET MARKER.	ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
FD-1	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, BOTTOM OUTLET, FLASHING COLLAR. TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM. SEALING GASKETS. RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM (30000), WATTS (FD-100), MIFAB (F1100), SUN (FD1000) TRAP SEAL - SURE SEAL (SS), PROVENT (TRAP GUARD), SMITH (QUAD CLOSE), GREEN DRAIN, MIFAB (MI-GARD), ZURN (Z1072)
HB-1	HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH-MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 OR 1052 LISTED AND APPROVED. VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER. BOX COVER AND HYDRANT SHALL USE A COMMON KEY. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.	PRIER (C-634BX), WOODFORD (B67), ZURN (Z1300), WATTS (HY-725), MIFAB (MHY-20), SMITH (5509QT), WADE (8700)
L-1	LAVATORY - COUNTER TOP MOUNTED, SELF-RIMMING, WHITE VITREOUS CHINA, 19" ROUND, SINGLE FAUCET HOLE. LAVATORY TRIM - SENSOR ACTIVATED NON-MIXING FAUCET, BATTERY POWERED BRASS CONSTRUCTION, CHROME-PLATED FINISH, SPOUT WITH LAMINAR FLOW OUTLET, SINGLE HOLE INSTALLATION, INTEGRAL CHECK VALVES, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH STRAINERS, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES. RATED FOR 1.5 GPM OUTPUT MAXIMUM AT 5 PSI DIFFERENTIAL AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES, AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS. CHROME PLATED SOFT COPPER SUPPLY LINES, 1-1/4" 17 GAUGE CAST BRASS P-TRAP. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	LAVATORY - AMERICAN STANDARD (0490.156), KOHLER (K-2202), GERBER (12-891), TOTO (LT402), ZURN (Z5121) LAVATORY TRIM - DELTA (DEMD-101LF), AMTC (AEF-308), T&S BRASS (ECW-3172), ZURN (Z6950-XL-S), BRADLEY (S53-3100) MIXING VALVE - LEONARD (170-LF/270-LF/370-LF). ACORN CONTROLS (ST7069), APOLLO (34BLF), BRADLEY (S59 SERIES), LAWLER (310/570), POWERS (SERIES LFLM495), SYMMONS (8210CK MAXLINE SERIES), WATTS (LFMMV), WILKINS (ZW1070XL) INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX (PRO-EXTREME)
RD-1	ROOF DRAIN - CAST IRON BODY. SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-100 SERIES), SMITH (1010), WADE (3000), JOSAM (21500), WATTS (RD-300), MIFAB (R1200), SUN (RD4000)
RD-2	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, EXTENSION TO MATCH INSULATION THICKNESS, 2" TALL EXTERNAL WATER DAM, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z-100 SERIES), SMITH (1080), WADE (3000), WATTS (RD-300), MIFAB (R1200), SUN (RD4000-D)
UR-1	URINAL - WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET. FLUSH VALVE - EXPOSED, MANUAL OPERATION, 0.5 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY. CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES. MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 22" ABOVE FLOOR. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	URINAL - AMERICAN STANDARD (6590.001), KOHLER (K-4991-ET), SLOAN (SU-1006/SU-1009), GERBER (27-780), TOTO (UT447), ZURN (Z5750) FLUSH VALVE - ZURN (Z6003AV). SLOAN (ROYAL 186). AMERICAN STANDARD (6045.051). KOHLER (K-13519-CP), TOTO (TMU1LN12#CP), AMTC (MF-700-U05)
WC-1	WATER CLOSET - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATED BOWL, 1-1/2" TOP SPUD. FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.28 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, ADA COMPLIANT, 3 YEAR WARRANTY. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	WATER CLOSET - AMERICAN STANDARD (2257.101), SLOAN (ST-2050), ZURN (Z5615), KOHLER (K-84325), TOTO (CT708E) FLUSH VALVE - ZURN (Z6000AV-SM-HET), SLOAN (111-1.28), AMERICAN STANDARD (6047.121), KOHLER (K-13517-CP), TOTO (TMT1LN32#CP), AMTC (MF-700-T12) SEAT - BEMIS (3155SSSCT), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER
WC-2	WATER CLOSET - ACCESSIBLE, WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATED BOWL, 1-1/2" TOP SPUD. FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.28 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, ADA COMPLIANT, 3 YEAR WARRANTY. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	WATER CLOSET - AMERICAN STANDARD (2257.101), SLOAN (ST-2050), ZURN (Z5615), KOHLER (K-84325), TOTO (CT708E) FLUSH VALVE - ZURN (Z6000AV-SM-HET), SLOAN (111-1.28), AMERICAN STANDARD (6047.121), KOHLER (K-13517-CP), TOTO (TMT1LN32#CP), AMTC (MF-700-T12) SEAT - BEMIS (3155SSSCT), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER
WHA-A,B	WATER HAMMER ARRESTOR - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR A: 1-11, B: 12-32 FIXTURE UNITS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	ZURN (Z1700), JR SMITH (5005-5050), WADE (W5-100), JOSAM (75000 SERIES), WATTS (SS), MIFAB (WHB)
YCO-1	YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	ZURN (Z1474), SMITH (4261), WADE (8401), JOSAM (58680), WATTS (CO-300-MF), MIFAB (C1300-MF)

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0 1 2 3
REF. SCALE IN INCHES

PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

PLUMBING SCHEDULES

P8.0

1/29/2025 2:43:11 PM

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

(1) — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
NORTH (1) **VIEW NAME**
1/8" = 1'-0"
PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS — SIM
1 — DETAIL REFERRED TO BY SECTION CUT — 1 2 3 4
M101 — SHEET DETAIL IS LOCATED ON — T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2014 EDITION	WITH AMENDMENTS
FIRE CODE:	IFC 2012 EDITION	WITH AMENDMENTS
PLUMBING CODE:	IPC 2012 EDITION	WITH AMENDMENTS
MECHANICAL CODE:	IMC 2014 EDITION	WITH AMENDMENTS
ELECTRICAL CODE:	IEC 2009 EDITION (NFPA 70-2008)	WITH AMENDMENTS

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

HVAC SHEET INDEX

M0.0	MECHANICAL COVERSHEET
M1.0D	BASEMENT MECHANICAL DEMOLITION PLAN - AREA D
M1.1	GROUND FLOOR MECHANICAL DEMOLITION PLAN - OVERALL
M1.1C	GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA C
M1.1E	GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA E
M1.1F	GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA F
M1.1G	GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA G
M1.1H	GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA H
M1.2D	POOL MEZZANINE MECHANICAL DEMOLITION PLAN - AREA D
M1.3	UPPER FLOOR MECHANICAL DEMOLITION PLAN - OVERALL
M1.3F	UPPER FLOOR MECHANICAL DEMOLITION PLAN - AREA F
M1.3G	UPPER FLOOR MECHANICAL DEMOLITION PLAN - AREA G
M1.4	ROOF MECHANICAL DEMOLITION PLAN - OVERALL
M1.4D	ROOF MECHANICAL DEMOLITION PLAN - AREA D
M1.4E	ROOF MECHANICAL DEMOLITION PLAN - AREA E
M1.4F	ROOF MECHANICAL DEMOLITION PLAN - AREA F
M1.4G	ROOF MECHANICAL DEMOLITION PLAN - AREA G
M2.1	GROUND FLOOR PIPING PLAN - OVERALL
M2.1C	GROUND FLOOR PIPING PLAN - AREA C
M2.1E	GROUND FLOOR PIPING PLAN - AREA E
M2.1F	GROUND FLOOR PIPING PLAN - AREA F
M2.1G	GROUND FLOOR PIPING PLAN - AREA G
M2.1H	GROUND FLOOR PIPING PLAN - AREA H
M2.3	UPPER FLOOR MECHANICAL PLAN - OVERALL
M2.3F	UPPER FLOOR PIPING PLAN - AREA F
M2.3G	UPPER FLOOR PIPING PLAN - AREA G
M2.3H	UPPER FLOOR PIPING PLAN - AREA H
M3.0D	BASEMENT VENTILATION PLAN - AREA D
M3.1	GROUND FLOOR VENTILATION PLAN - OVERALL
M3.1E	GROUND FLOOR VENTILATION PLAN - AREA E
M3.1F	GROUND FLOOR VENTILATION PLAN - AREA F
M3.1G	GROUND FLOOR VENTILATION PLAN - AREA G
M3.1H	GROUND FLOOR VENTILATION PLAN - AREA H
M3.2D	POOL MEZZANINE VENTILATION PLAN - AREA D
M3.3F	UPPER FLOOR VENTILATION PLAN - AREA F
M3.3G	UPPER FLOOR VENTILATION PLAN - AREA G
M3.3H	UPPER FLOOR VENTILATION PLAN - AREA H
M3.4	ROOF MECHANICAL PLAN - OVERALL
M3.4F	ROOF MECHANICAL PLAN - AREA F
M3.4G	ROOF MECHANICAL PLAN - AREA G
M3.4H	ROOF MECHANICAL PLAN - AREA H
M4.0	CHILLED WATER FLOW DIAGRAM
M5.0	ENLARGED MECHANICAL ROOM PLAN
M6.0	MECHANICAL DETAILS
M6.1	MECHANICAL DETAILS
M6.2	MECHANICAL DETAILS
M6.3	AHU DETAILS
M6.4	DHU DETAILS
M6.5	MECHANICAL SECTIONS
M6.6	MECHANICAL SECTIONS
M7.0	CONTROL DIAGRAMS
M7.1	CONTROL DIAGRAMS
M7.2	CONTROL DIAGRAMS
M8.0	MECHANICAL SCHEDULES
M8.1	MECHANICAL SCHEDULES
GRAND TOTAL: 55	

HVAC SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
BD	BOILER BLOW DOWN
BF	BOILER FEED WATER
CA	COMPRESSED AIR
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DPP	DRAIN
HG	REFRIGERANT HOT GAS
HPC	HIGH PRESSURE CONDENSATE (>125 TO 250 PSIG)
HPS	HIGH PRESSURE STEAM (>125 TO 250 PSIG)
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LIQ	REFRIGERANT LIQUID
LPC	LOW PRESSURE CONDENSATE (0 TO 15 PSIG)
LPS	LOW PRESSURE STEAM (0 TO 15 PSIG)
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
REF	REFRIGERANT
SUC	REFRIGERANT SUCTION
SV	SAFETY RELIEF VENT
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
	BACKFLOW PREVENTER
	SAFETY/RELIEF VALVE
	SAFETY RELIEF VALVE W/ DRIP PAN ELBOW
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	TRIPLE DUTY VALVE (ANGLE TYPE)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
	PUMP
	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	BASKET STRAINER
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
SP	STATIC SWITCH
FM	FLOW METER
F	FLOW SWITCH
FS	FLOW SENSOR
M	METER

HVAC SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
SD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL / NECK SIZE/CFM
###	TERMINAL AIR BOX (REFER TO SCHEDULE)
H	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
H	HUMIDISTAT SENSOR
H	HUMIDISTAT / SENSOR (DUCT MOUNTED)
C	CARBON MONOXIDE SENSOR
C2	CARBON DIOXIDE SENSOR
C 2	CARBON DIOXIDE SENSOR
O	OCCUPANCY SENSOR
P	PRESSURE SENSOR/MONITOR
P	PRESSURE SENSOR (DUCT MOUNTED)
T	THERMOSTAT/SENSOR
T	TEMPERATURE SENSOR (DUCT MOUNTED)
S1	TEMPERATURE SENSOR: SENSOR ONLY
S2	TEMPERATURE SENSOR: SENSOR WITH ADJUSTMENT
S3	TEMPERATURE SENSOR: SENSOR WITH OVERRIDE
S4	TEMPERATURE SENSOR: SENSOR WITH ADJUSTMENT AND OVERRIDE
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER

HVAC ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DN	DOWN
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EP	ELECTRICAL TO PNEUMATIC VALVE
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
PS	PRESSURE SWITCH
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

DUCT ABBREVIATION KEY

ABBR.	DESCRIPTION
EA	EXHAUST AIR
MA	MIXED AIR
OA	OUTSIDE AIR
RA	RETURN AIR
RE	RELIEF AIR
SA	SUPPLY AIR
TD	RETURN TRANSFER AIR

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
12. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

TAB PRE-DEMOLITION NOTES:

1. BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
2. PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE.
3. IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
4. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.
5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
6. TAB CONTRACTOR SHALL PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE AND DIFFUSER READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO TRAVERSES, GRILLES, AND DIFFUSERS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. SIMILAR ROOM NAMES, NUMBERS, OR DESIGNATIONS SHALL BE USED TO SIMPLIFY THE CROSS- REFERENCING OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION REPORTS.
7. BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

TAB POST-CONSTRUCTION NOTES:

1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
2. AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE- DEMOLITION REPORT).
3. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
4. A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
6. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
2. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
3. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
4. PROVIDE ACCESS DOORS AT ALL DUCT-MOUNTED EQUIPMENT.
5. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
6. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS:

SUMMER:	95°F DRY BULB, 76°F WET BULB
WINTER:	-10°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN: 74°F DRY BULB **WINTER DESIGN:** 70°F DRY BULB

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PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

MECHANICAL COVERSHEET

M0.0

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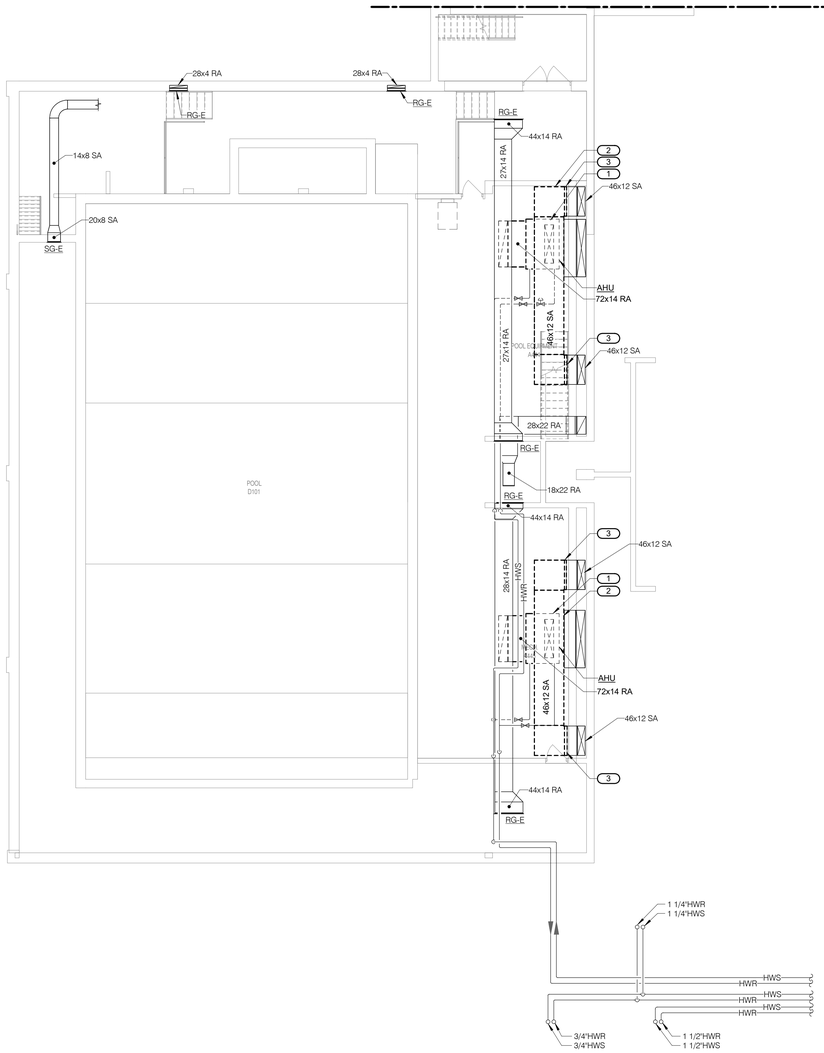
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

KEYNOTES: (#)

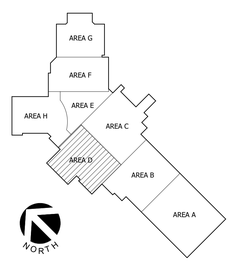
1. REMOVE HEATING AND VENTILATING UNIT.
2. REMOVE DUCTWORK AS SHOWN.
3. CAP EXISTING DUCT, ABANDON DUCT WITHIN MASONRY CHASE IN PLACE.



NORTH

1 BASEMENT MECHANICAL DEMOLITION PLAN - AREA D

1/8" = 1'-0"



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BASEMENT MECHANICAL DEMOLITION PLAN - AREA D

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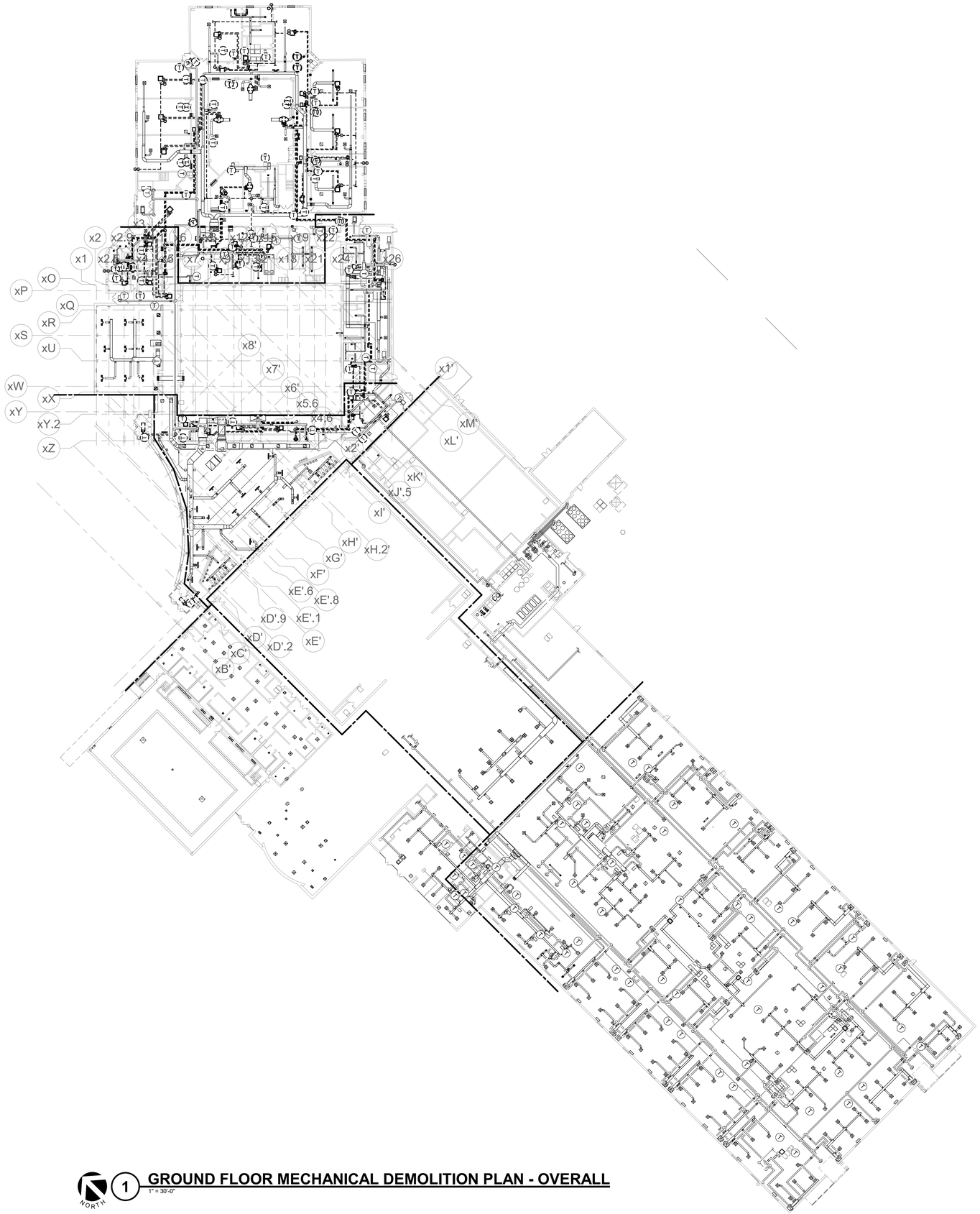
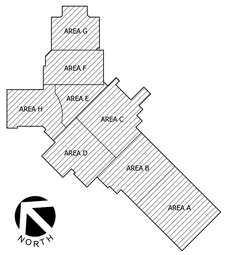


1 **GROUND FLOOR MECHANICAL DEMOLITION PLAN - OVERALL**

1" = 30'-0"



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CHK	KDW

GROUND FLOOR MECHANICAL DEMOLITION PLAN - OVERALL

M1.1

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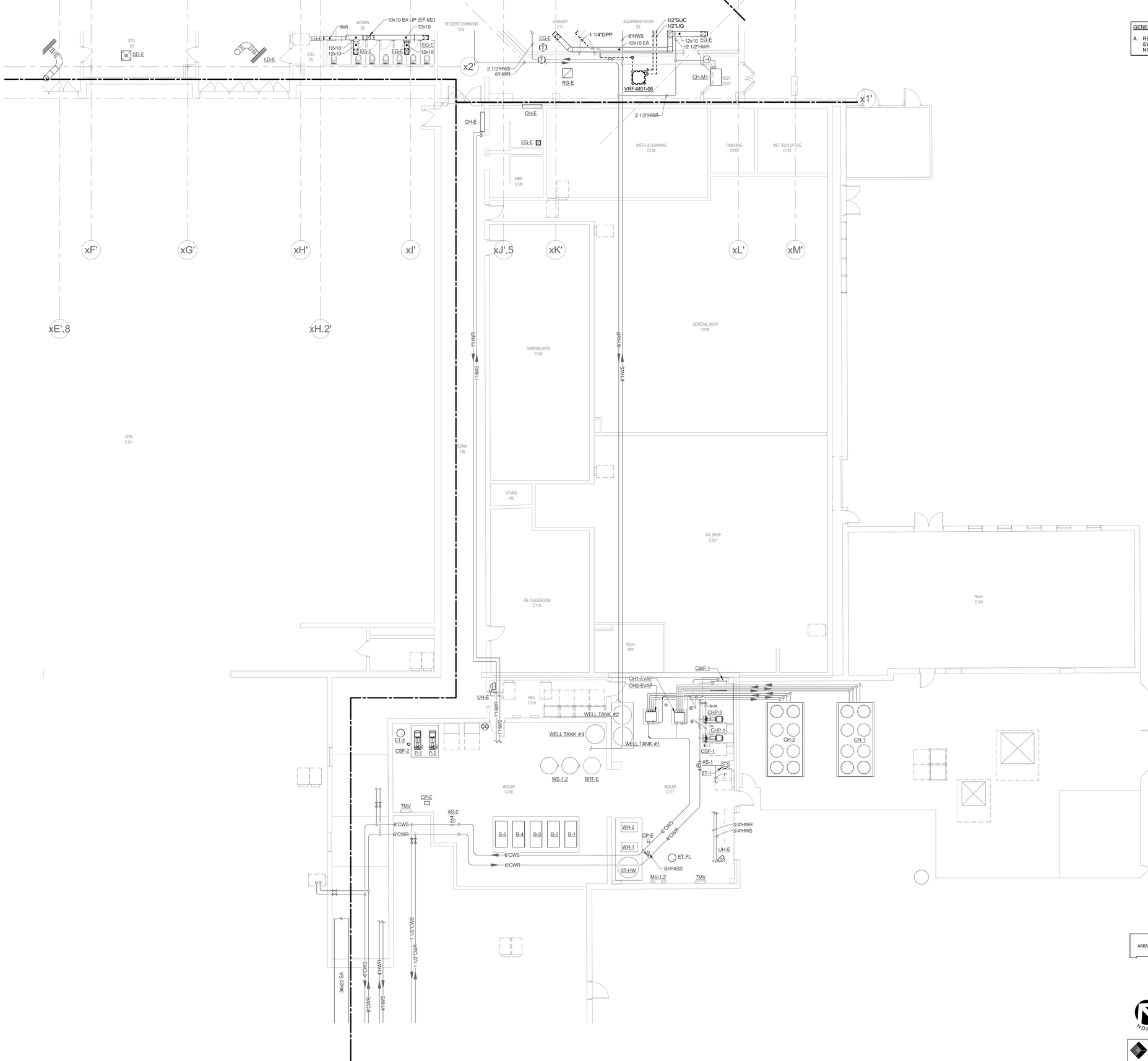
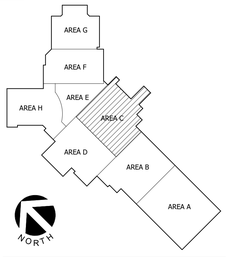
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.





NORTH

1 GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA C

1/8" = 1'-0"

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DWR	MAM
CHK	KDW

GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA C

M1.1C

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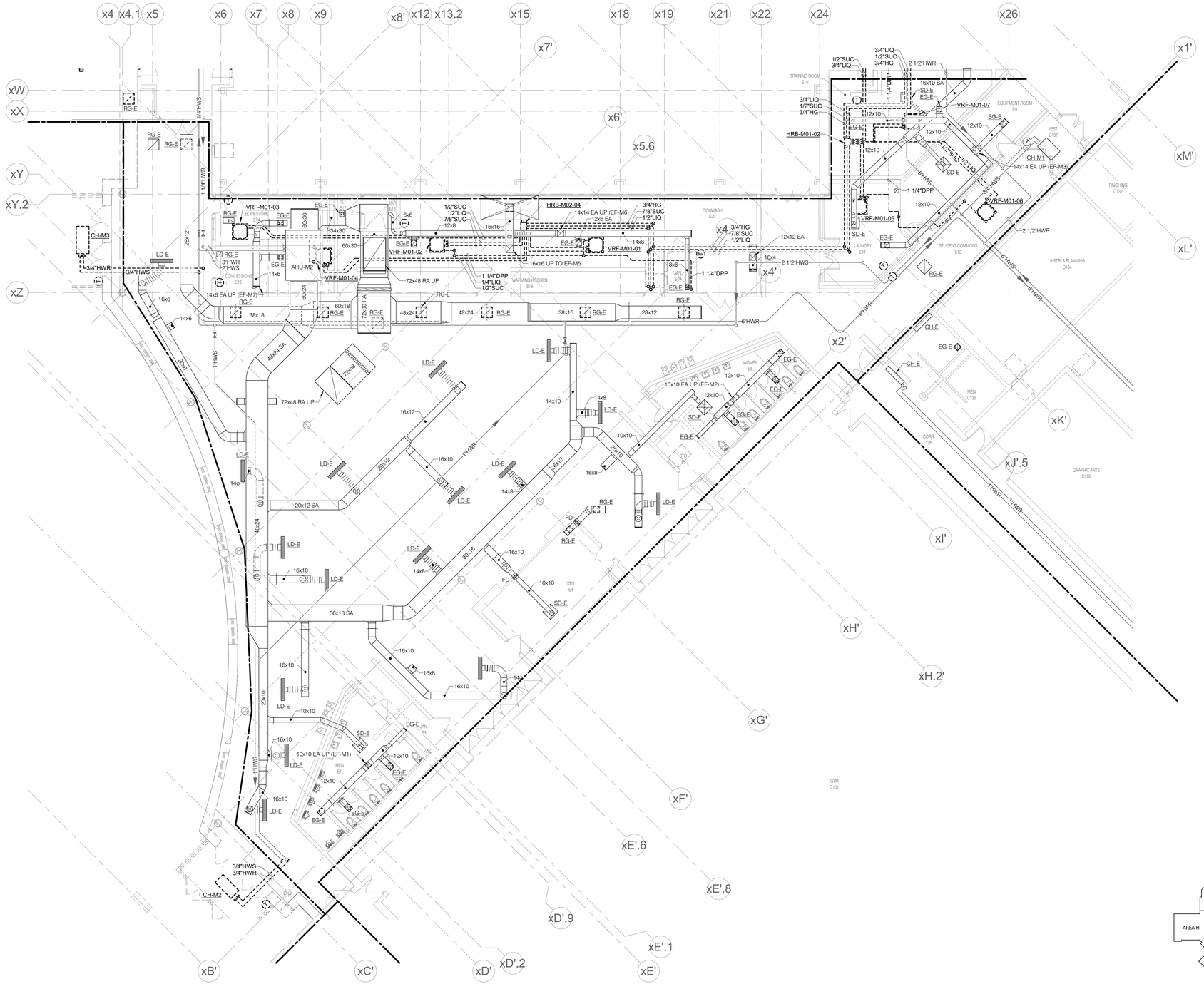
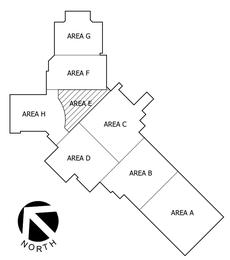
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.





1 GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA E

1/8" = 1'-0"

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CHK	KDW

GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA E

M1.1E

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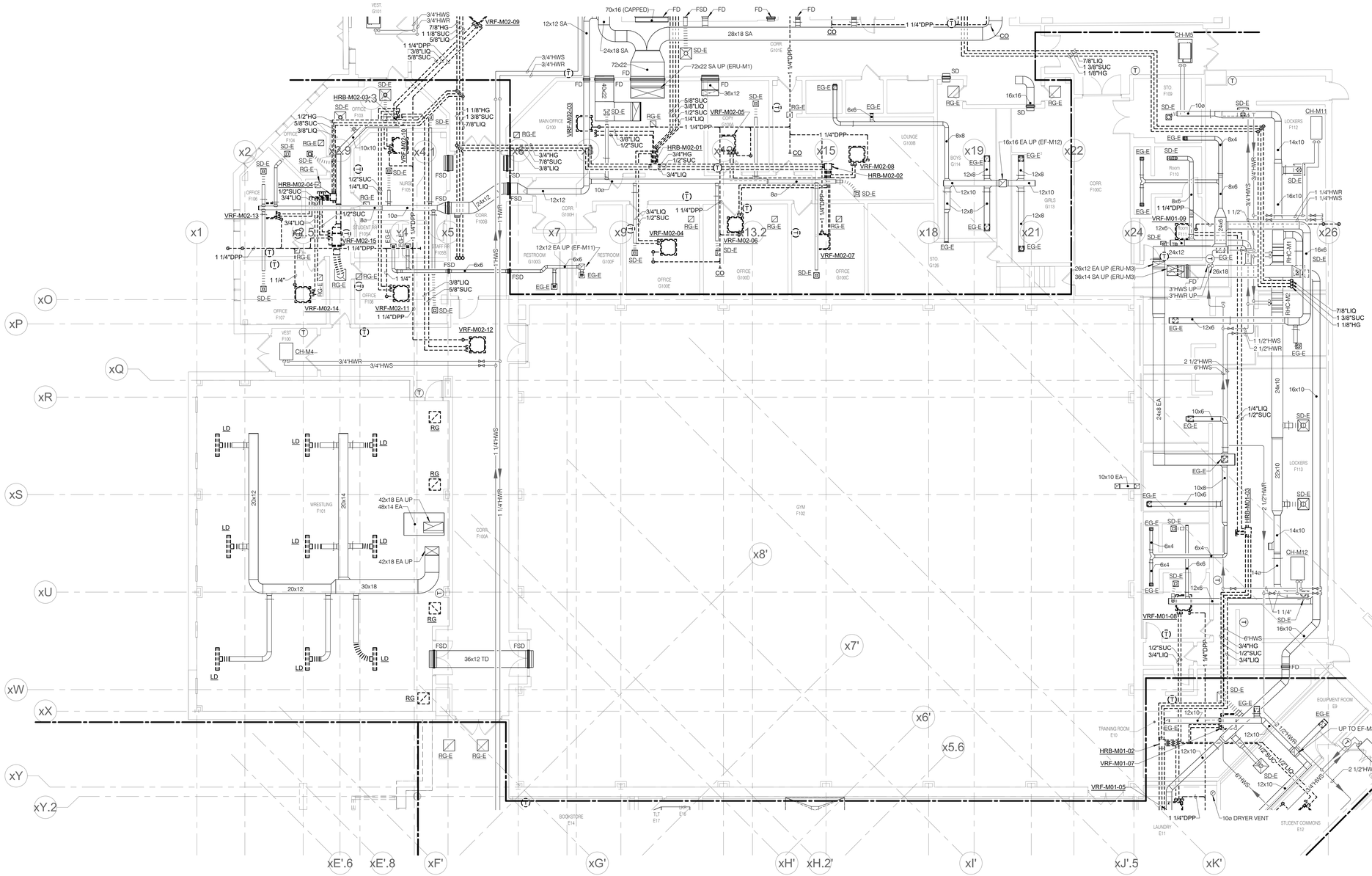
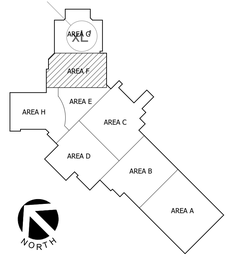
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA F

1/8" = 1'-0"



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CHK	KDW

GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA F

M1.1F

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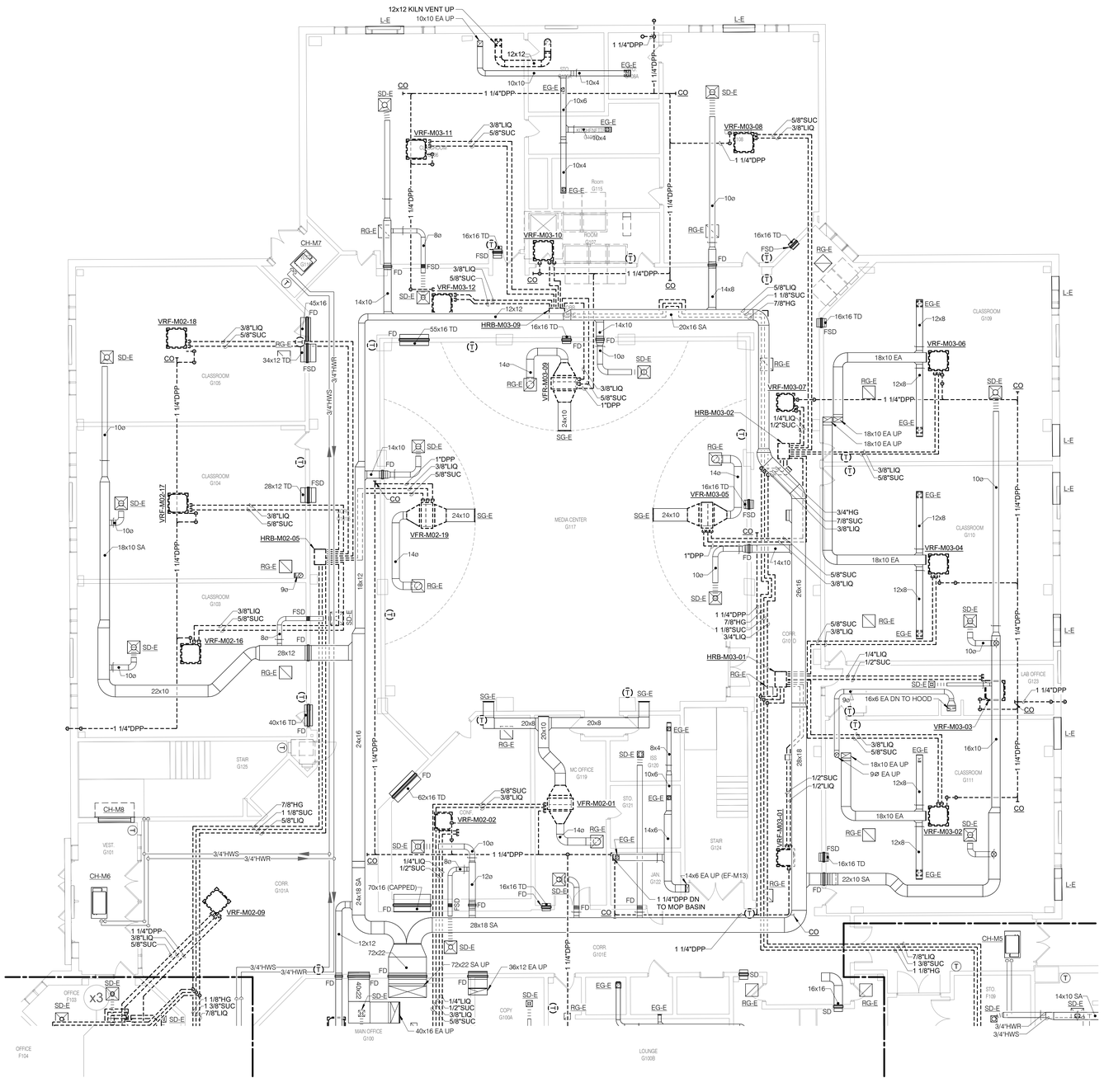
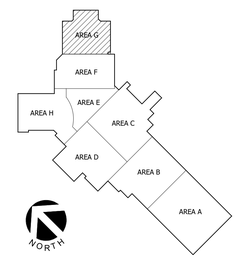
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA G

1/8" = 1'-0"



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NORTH PUTNAM COMMUNITY SCHOOLS

8869 COUNTY ROAD 250 E
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WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

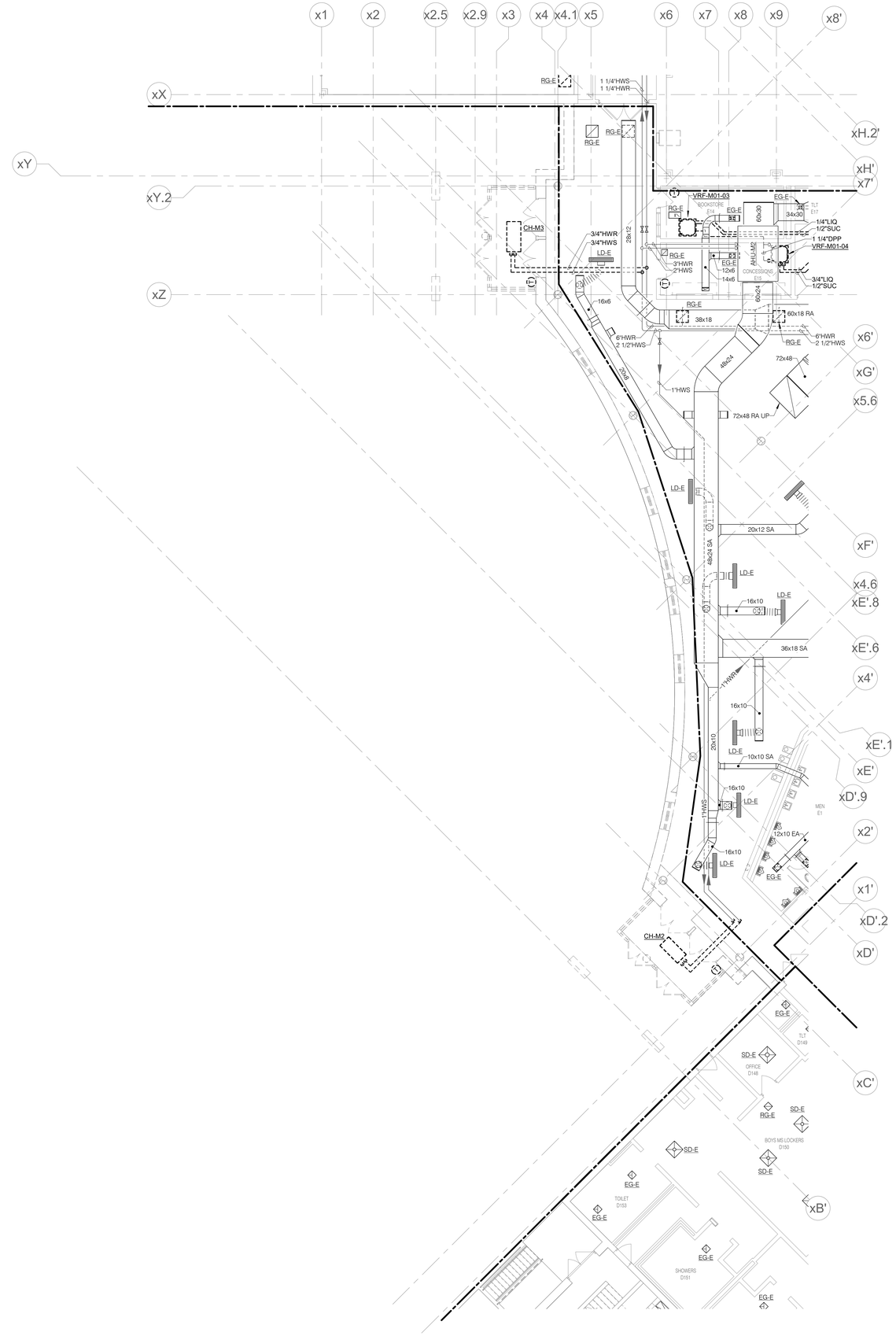
GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA G

M1.1G

1/29/2025 2:38:32 PM

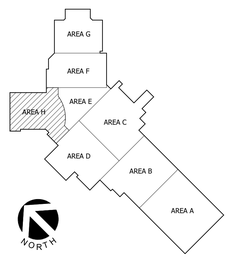
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA H

1/8" = 1'-0"



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PROJECT #24001305.00

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REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

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WA No.	2024-006
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CHK	KDW

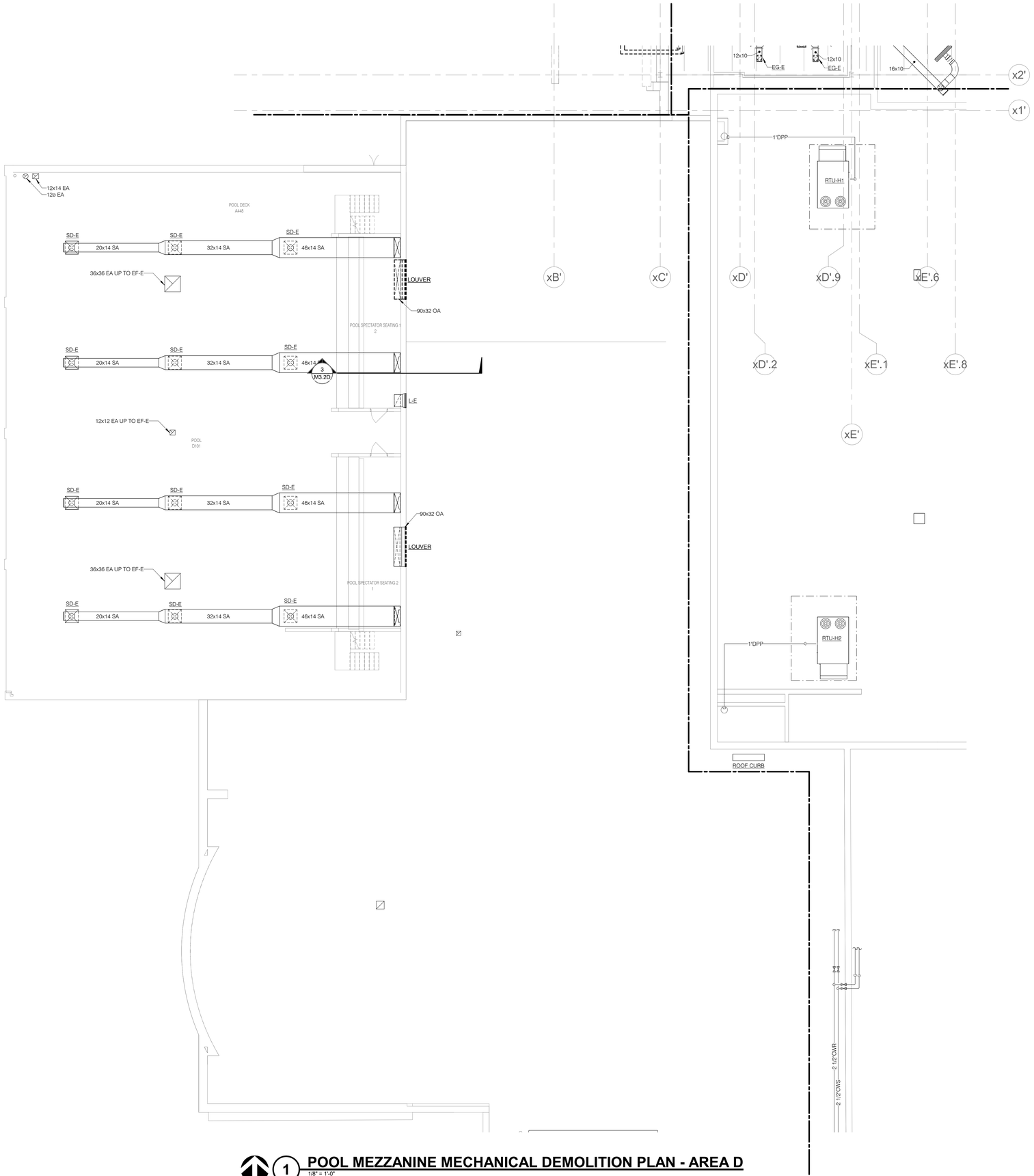
GROUND FLOOR MECHANICAL DEMOLITION PLAN - AREA H

M1.1H

1/29/2025 2:38:35 PM

GENERAL NOTES:

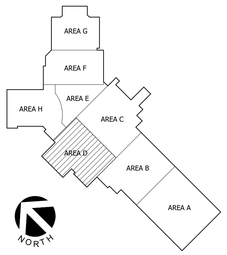
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 POOL MEZZANINE MECHANICAL DEMOLITION PLAN - AREA D

1/8" = 1'-0"

NORTH



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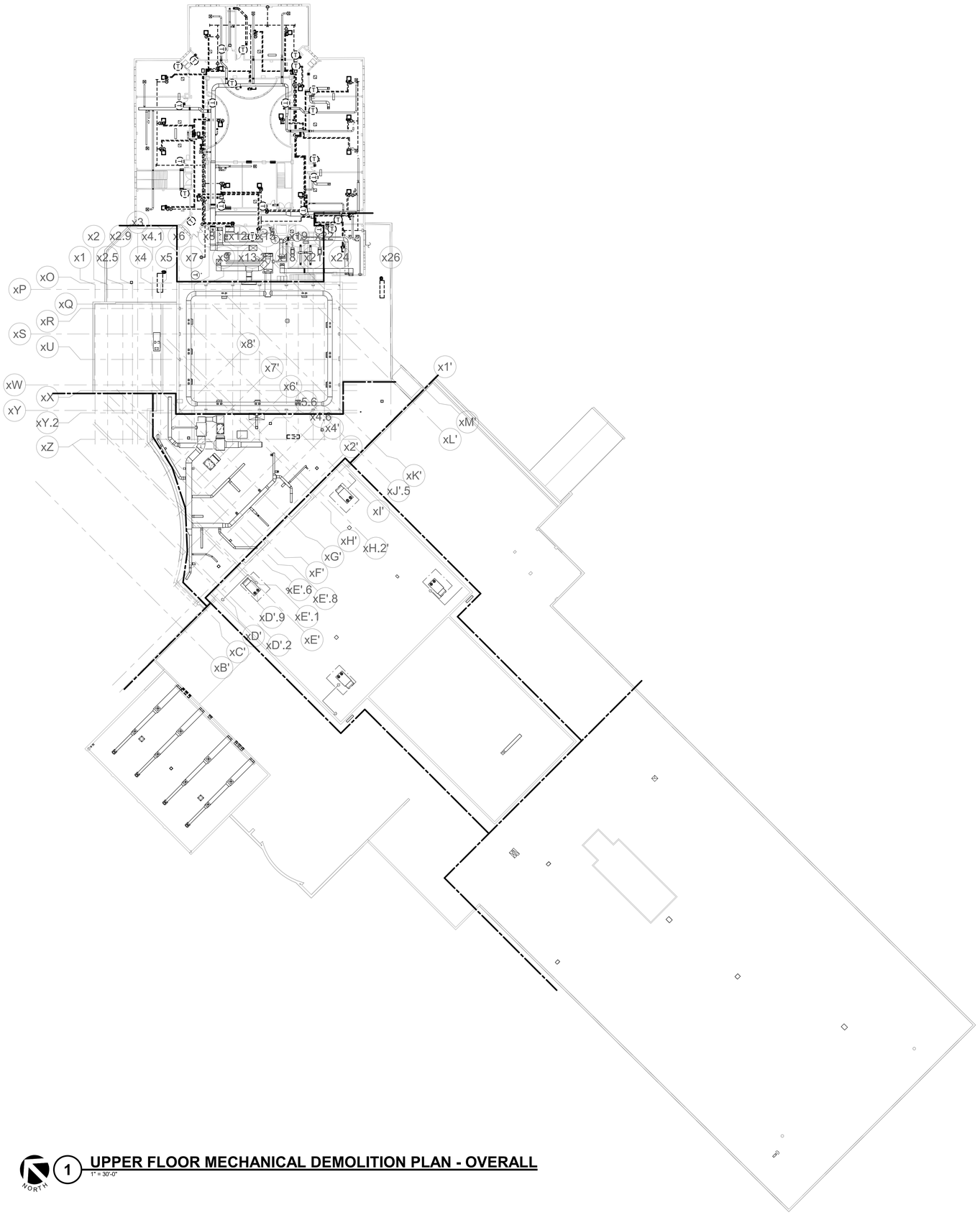
CHK	KDW

POOL MEZZANINE MECHANICAL DEMOLITION PLAN - AREA D

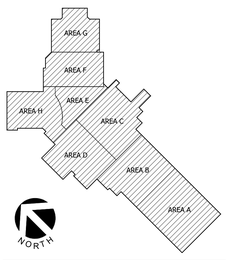
M1.2D

1/29/2025 2:38:37 PM



1 **UPPER FLOOR MECHANICAL DEMOLITION PLAN - OVERALL**

1" = 30'-0"



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DWR	MAM
CHK	KDW

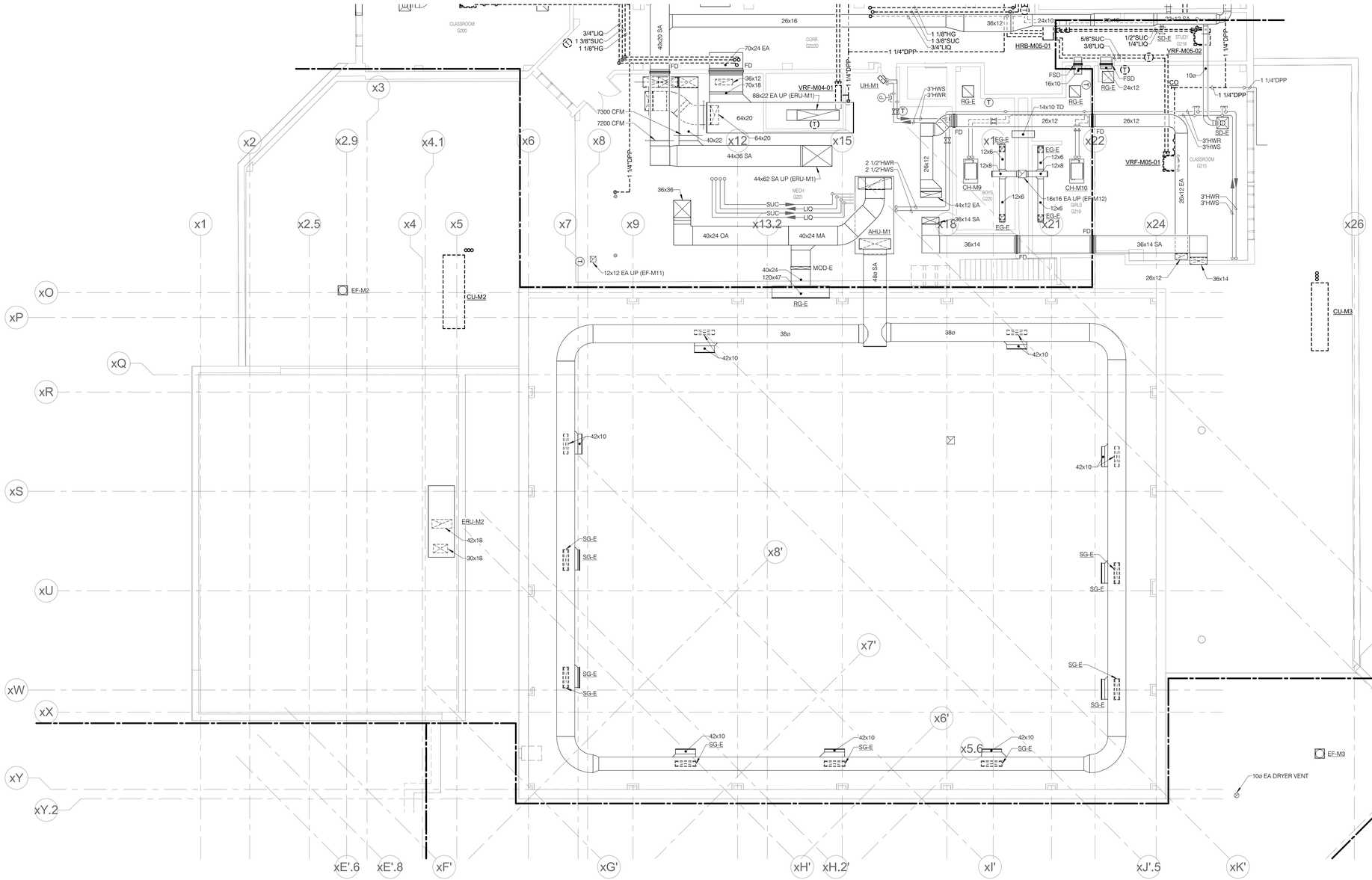
UPPER FLOOR MECHANICAL DEMOLITION PLAN - OVERALL

M1.3

1/29/2025 2:38:46 PM

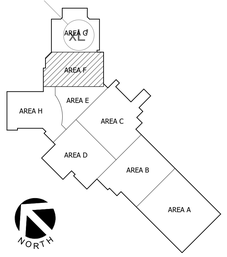
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 UPPER FLOOR MECHANICAL DEMOLITION PLAN - AREA F

1/8" = 1'-0"



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CHK	KDW

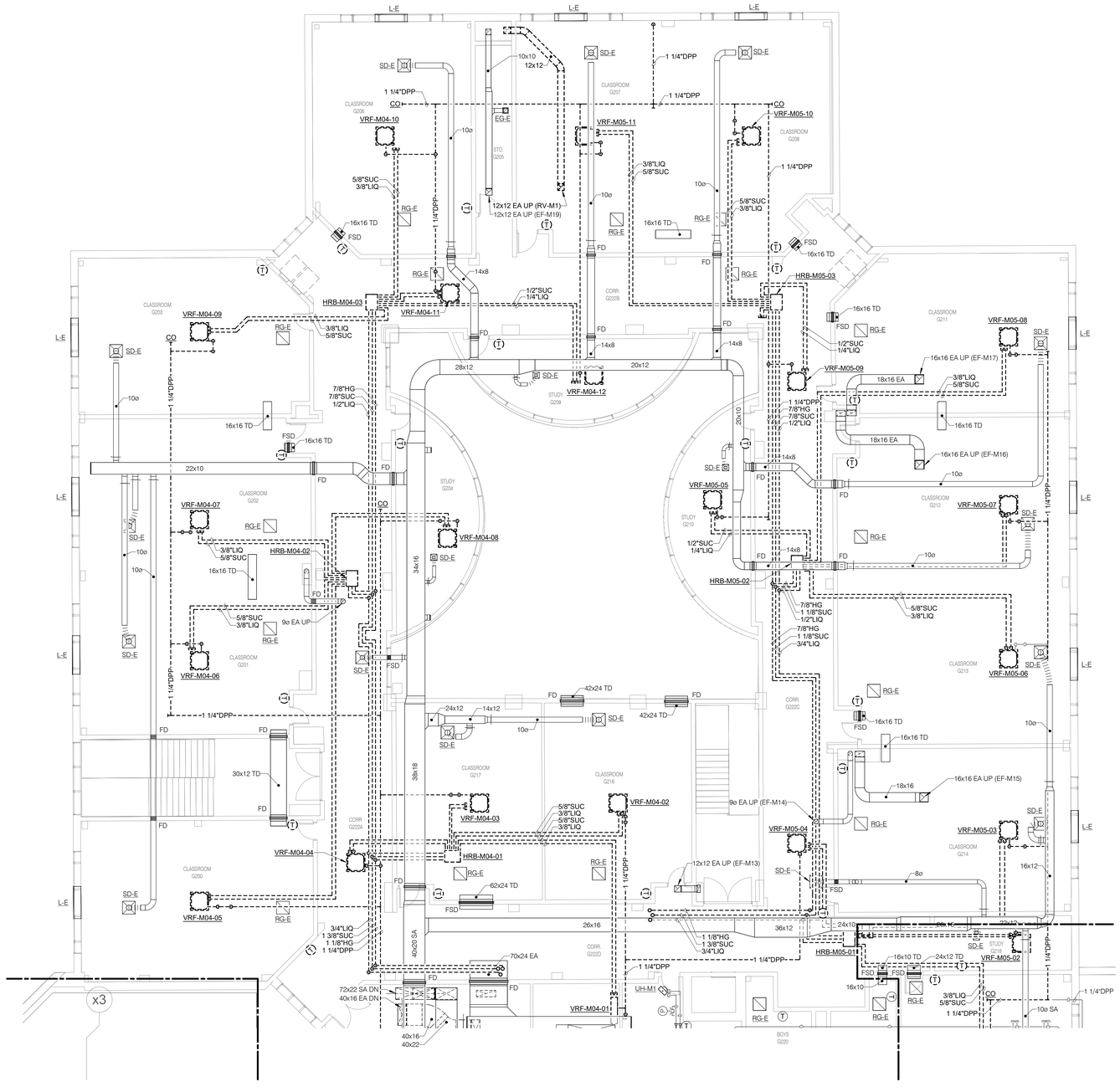
UPPER FLOOR MECHANICAL DEMOLITION PLAN - AREA F

M1.3F

1/29/2025 2:38:59 PM

GENERAL NOTES:

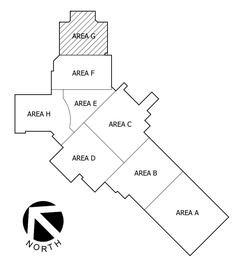
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



NORTH

1 UPPER FLOOR MECHANICAL DEMOLITION PLAN - AREA G

1/8" = 1'-0"



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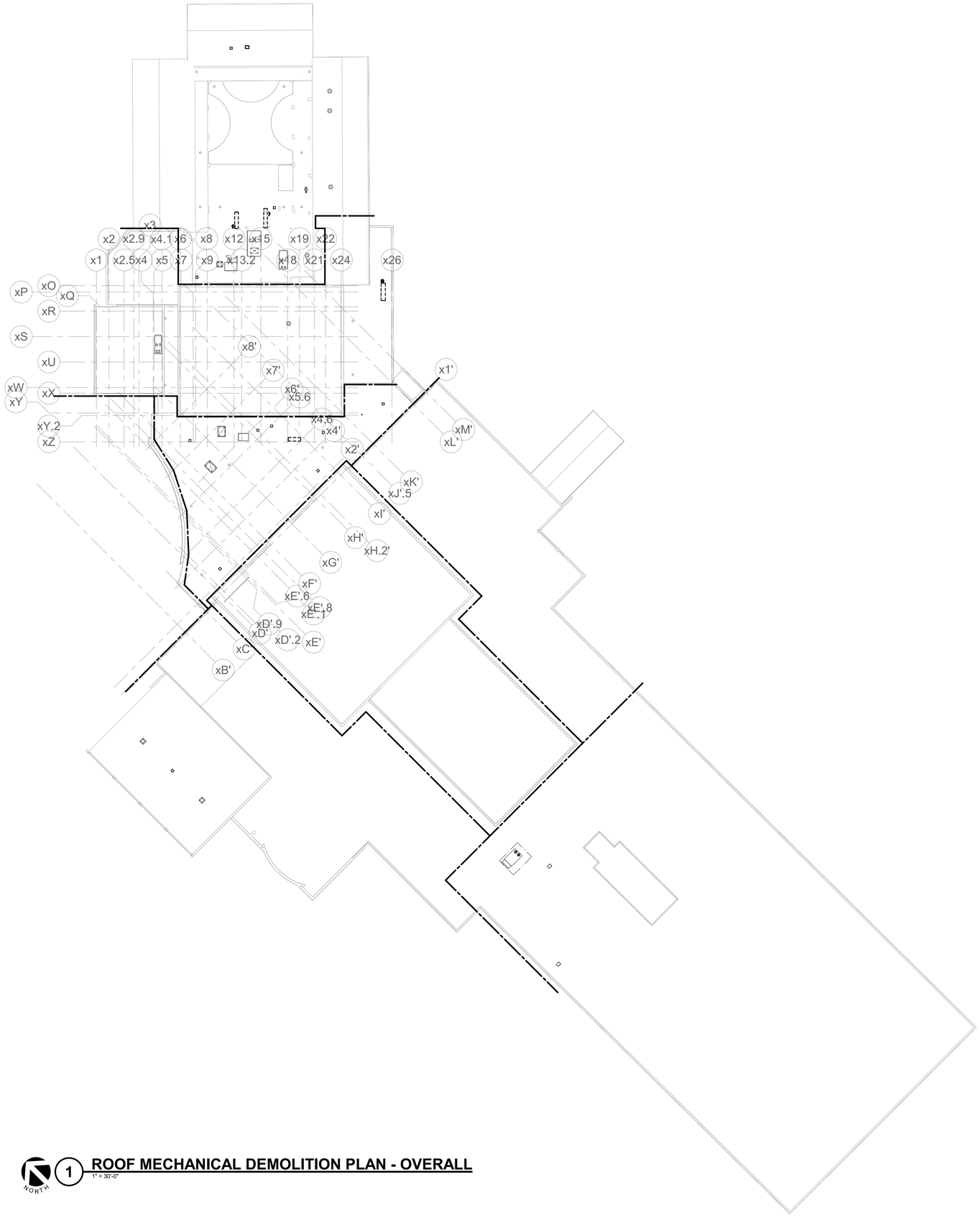
CHK	KDW

UPPER FLOOR MECHANICAL DEMOLITION PLAN - AREA G

M1.3G

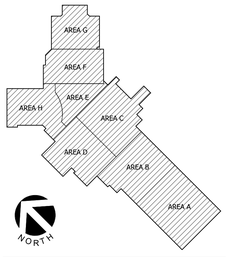
1/29/2025 2:38:56 PM



NORTH

1 ROOF MECHANICAL DEMOLITION PLAN - OVERALL

1" = 30'-0"



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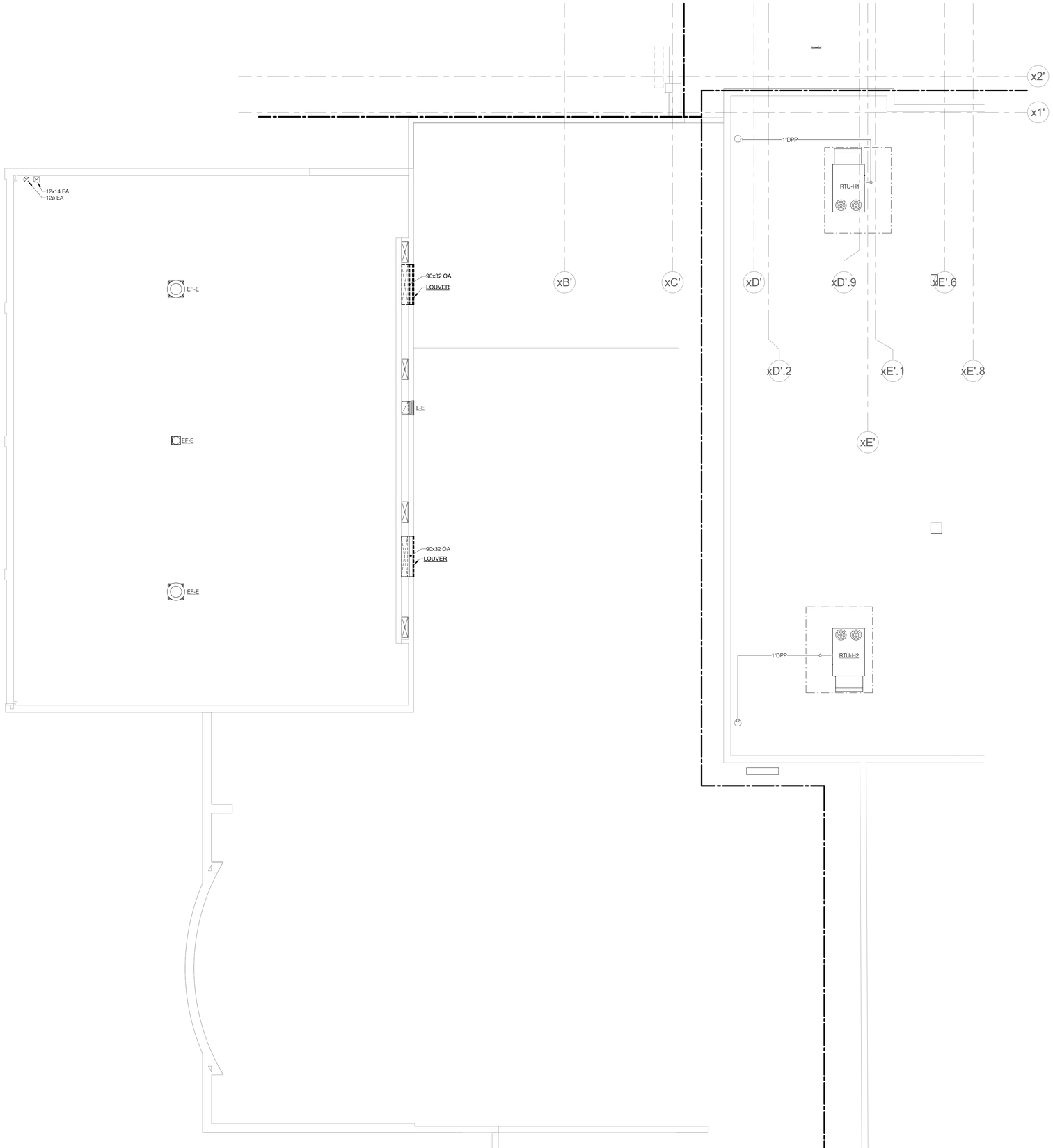
ROOF MECHANICAL DEMOLITION PLAN - OVERALL

M1.4

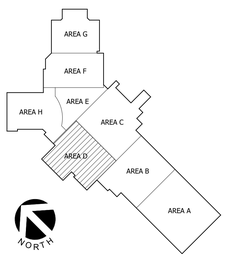
1/29/2025 2:39:01 PM

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 **ROOF MECHANICAL DEMOLITION PLAN - AREA D**
1/8" = 1'-0"



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WILLIAMS ARCHITECTS

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Date	31 JAN 2025
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DWR	MAM
CHK	KDW

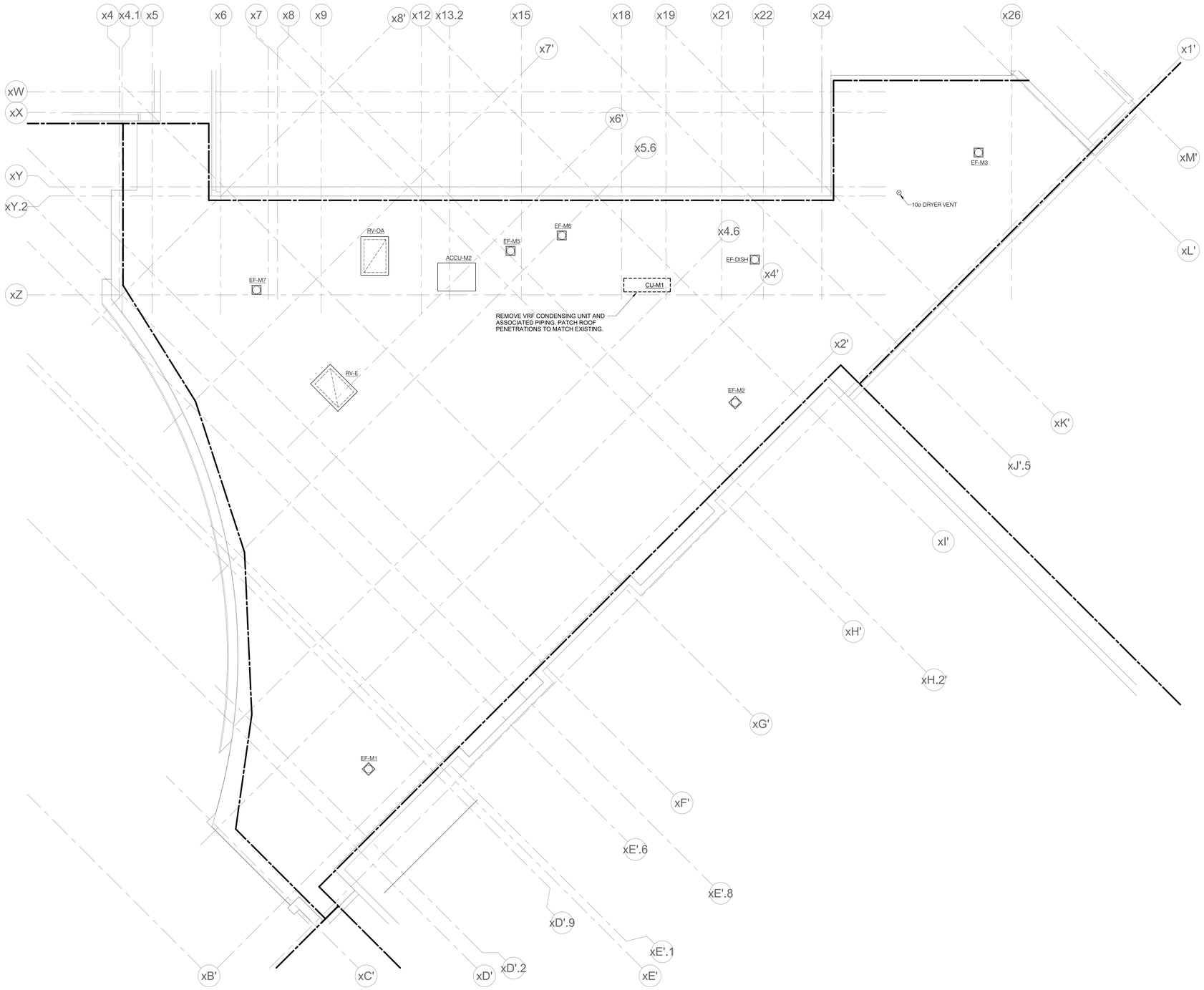
ROOF MECHANICAL DEMOLITION PLAN - AREA D

M1.4D

1/29/2025 2:39:03 PM

GENERAL NOTES:

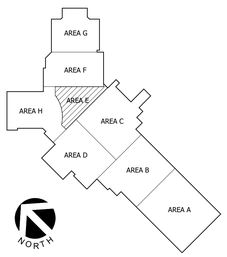
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



NORTH

1 ROOF MECHANICAL DEMOLITION PLAN - AREA E

1/8" = 1'-0"



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CHK	KDW

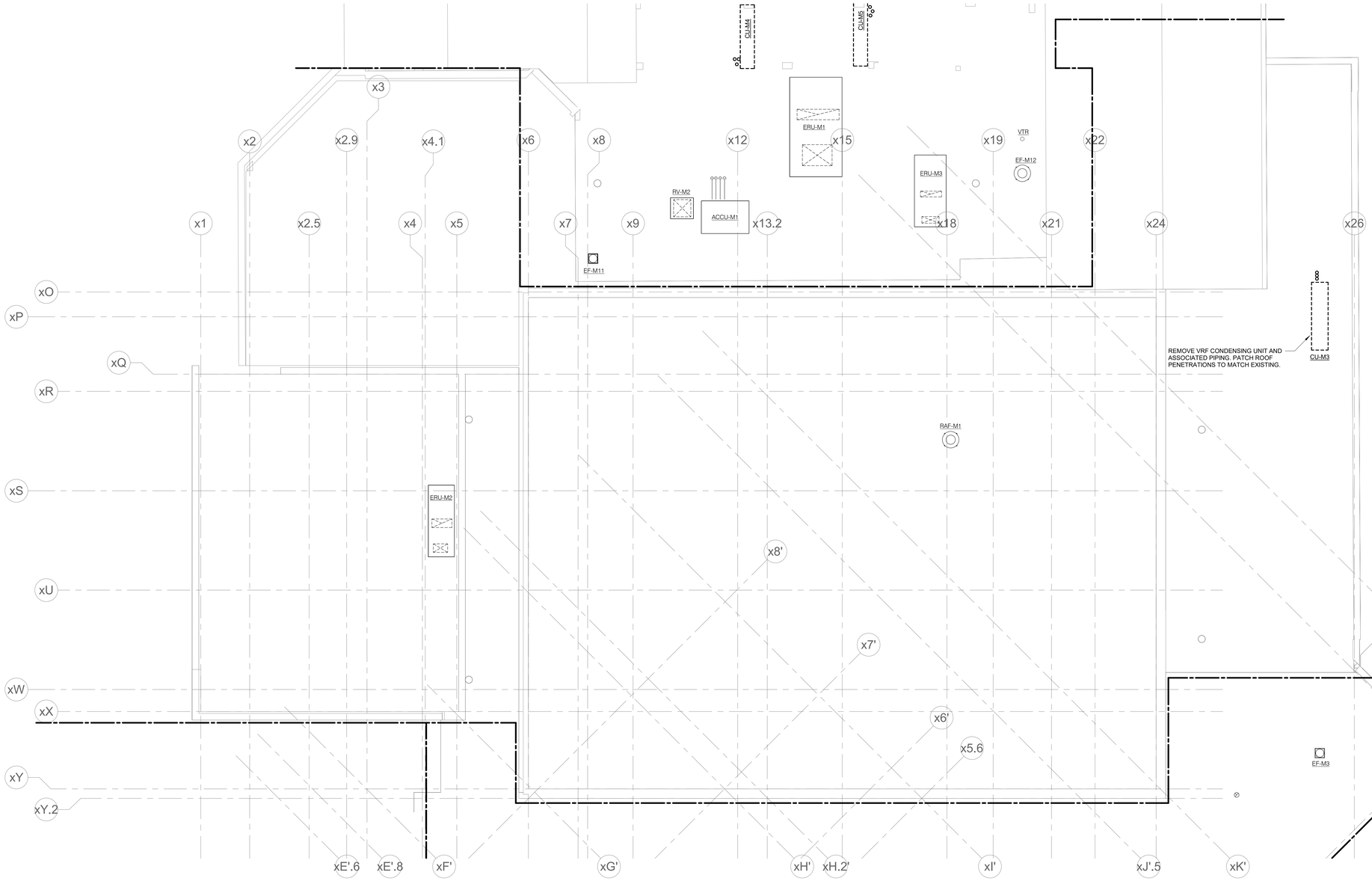
ROOF MECHANICAL DEMOLITION PLAN - AREA E

M1.4E

1/29/2025 2:39:05 PM

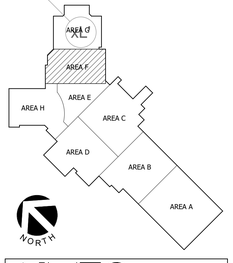
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 ROOF MECHANICAL DEMOLITION PLAN - AREA F

1/8" = 1'-0"



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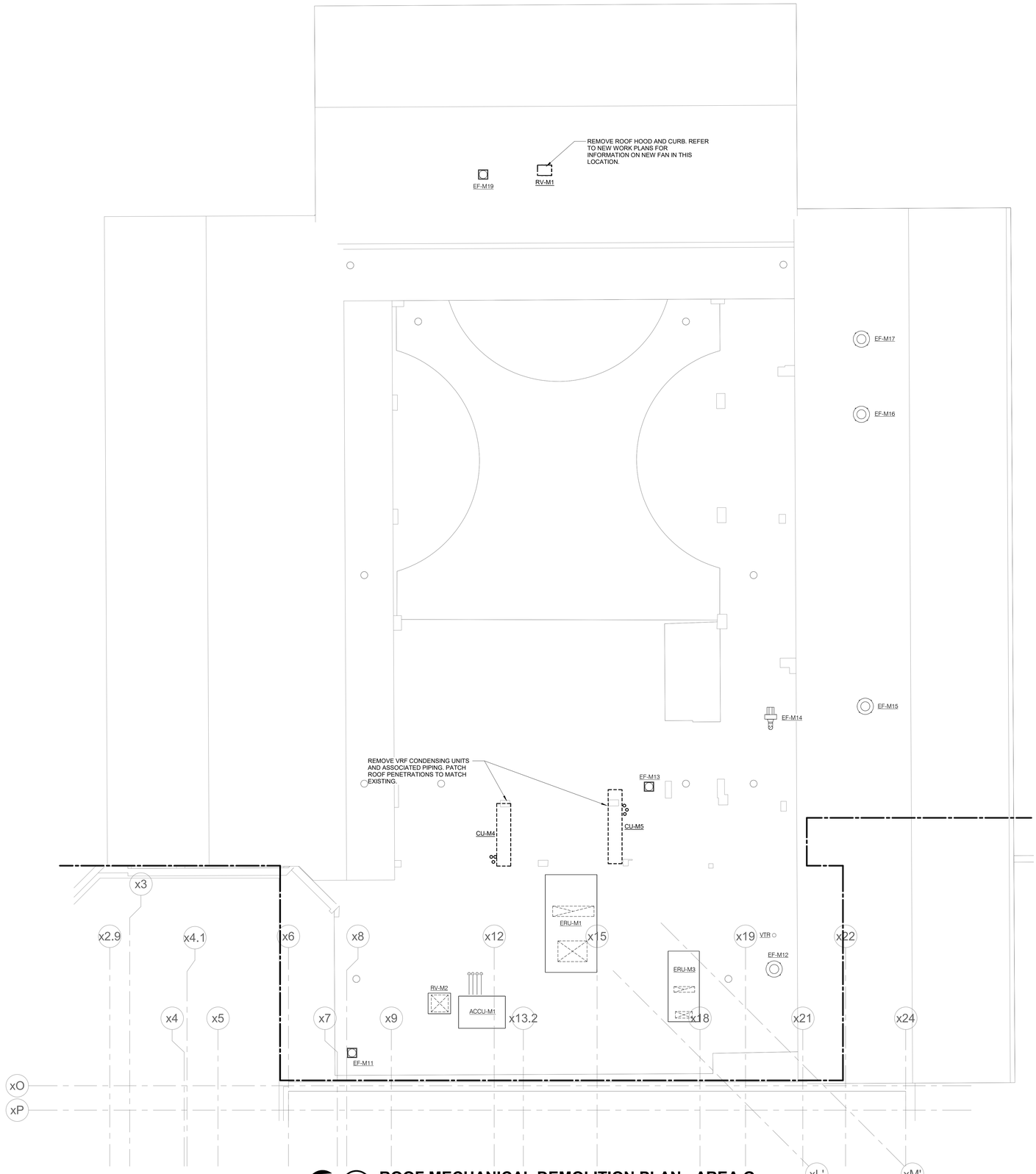
ROOF MECHANICAL DEMOLITION PLAN - AREA F

M1.4F

1/29/2025 2:39:08 PM

GENERAL NOTES:

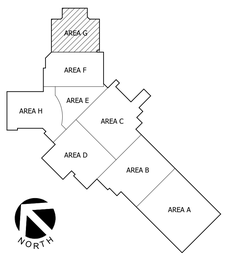
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



NORTH

1 **ROOF MECHANICAL DEMOLITION PLAN - AREA G**

1/8" = 1'-0"



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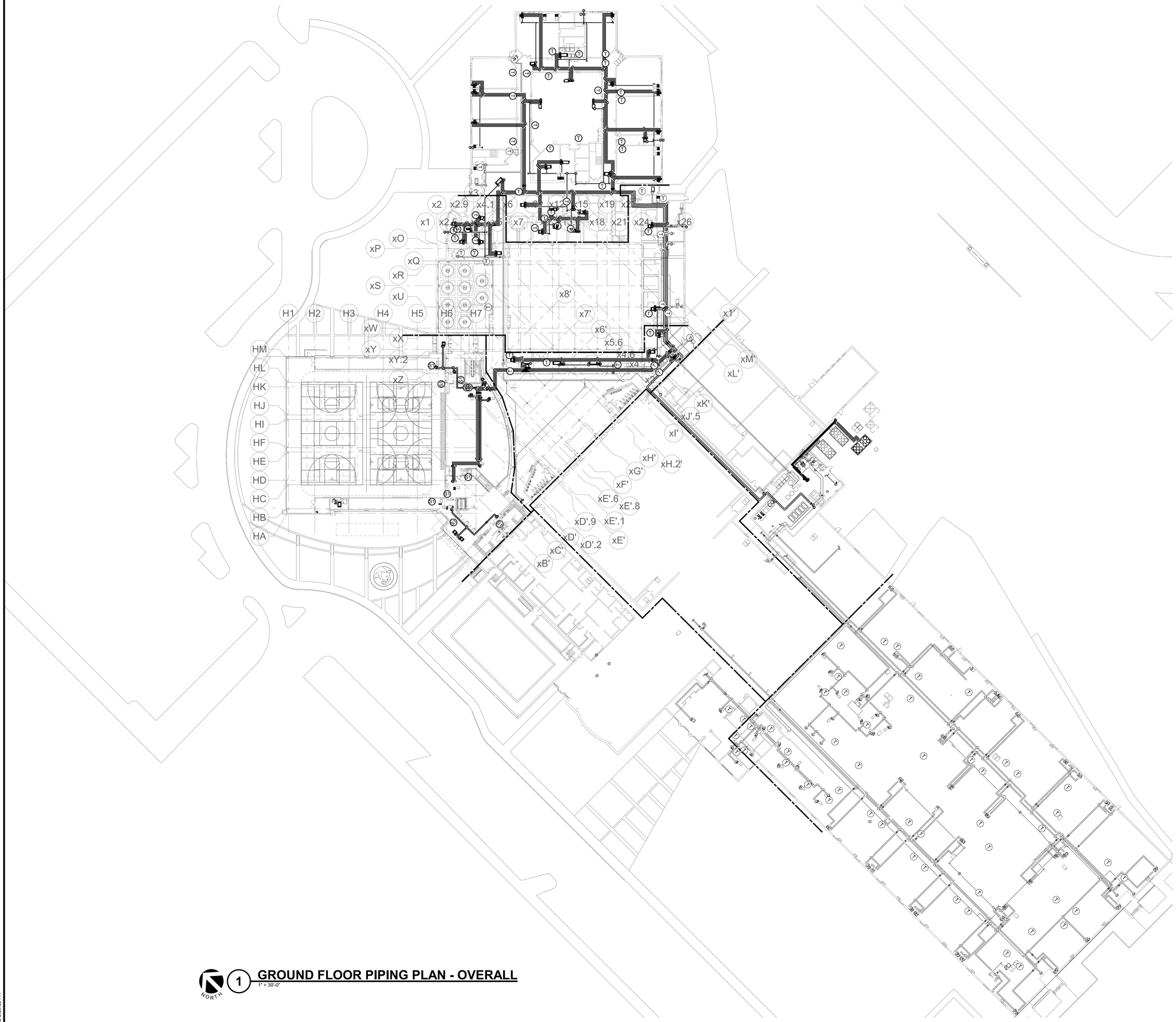
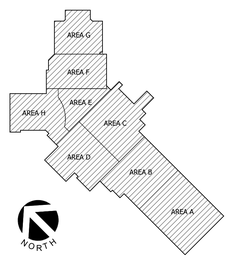
ROOF MECHANICAL DEMOLITION PLAN - AREA G

M1.4G

1/29/2025 2:39:41 PM



1 GROUND FLOOR PIPING PLAN - OVERALL
1" = 30'-0"



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REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

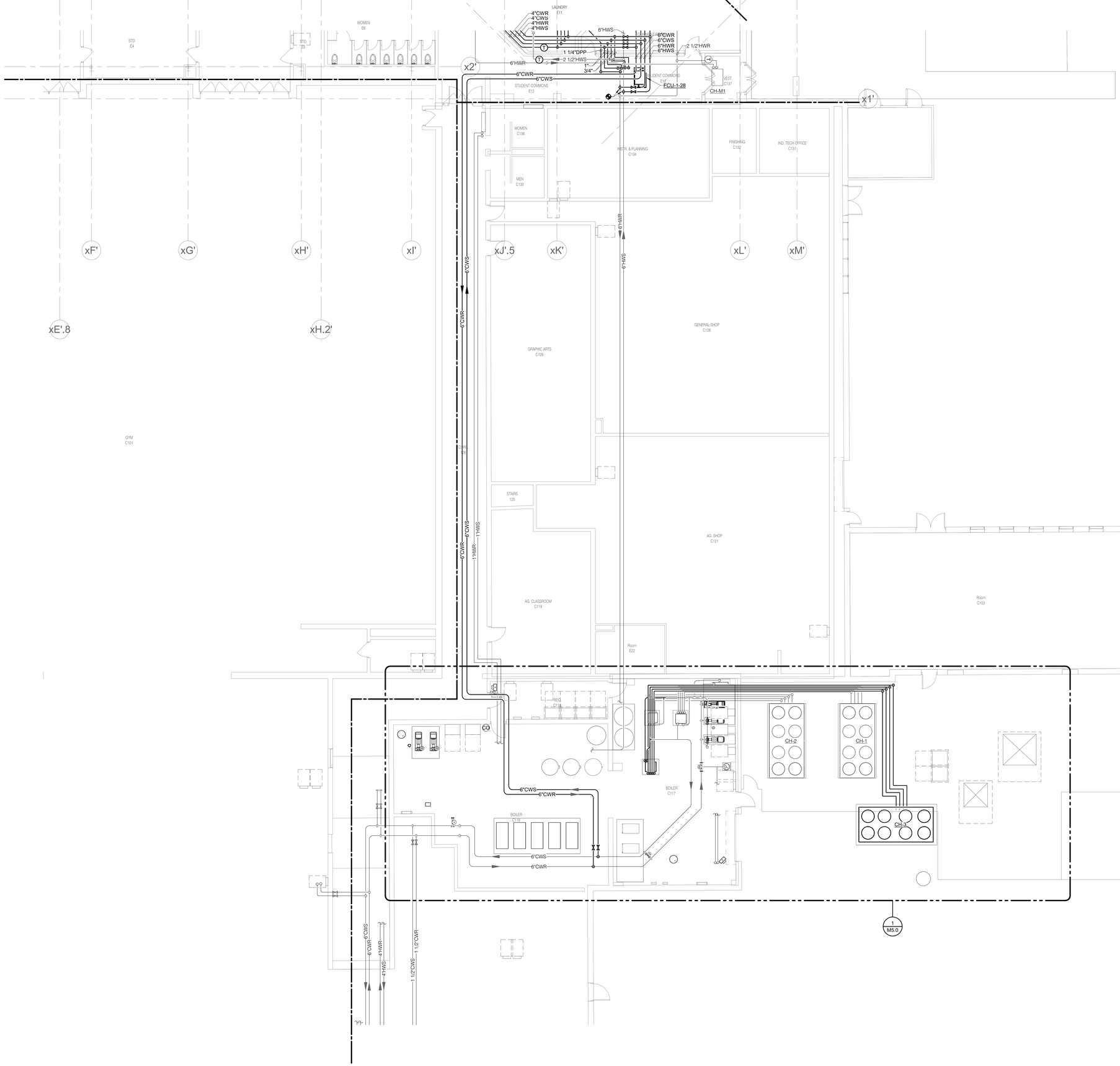
GROUND FLOOR PIPING PLAN - OVERALL

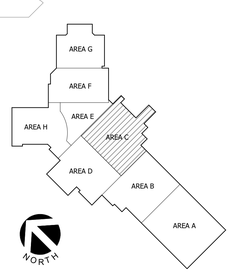
M2.1

1/29/2025 2:39:35 PM

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.





1 GROUND FLOOR PIPING PLAN - AREA C

1/8" = 1'-0"

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PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

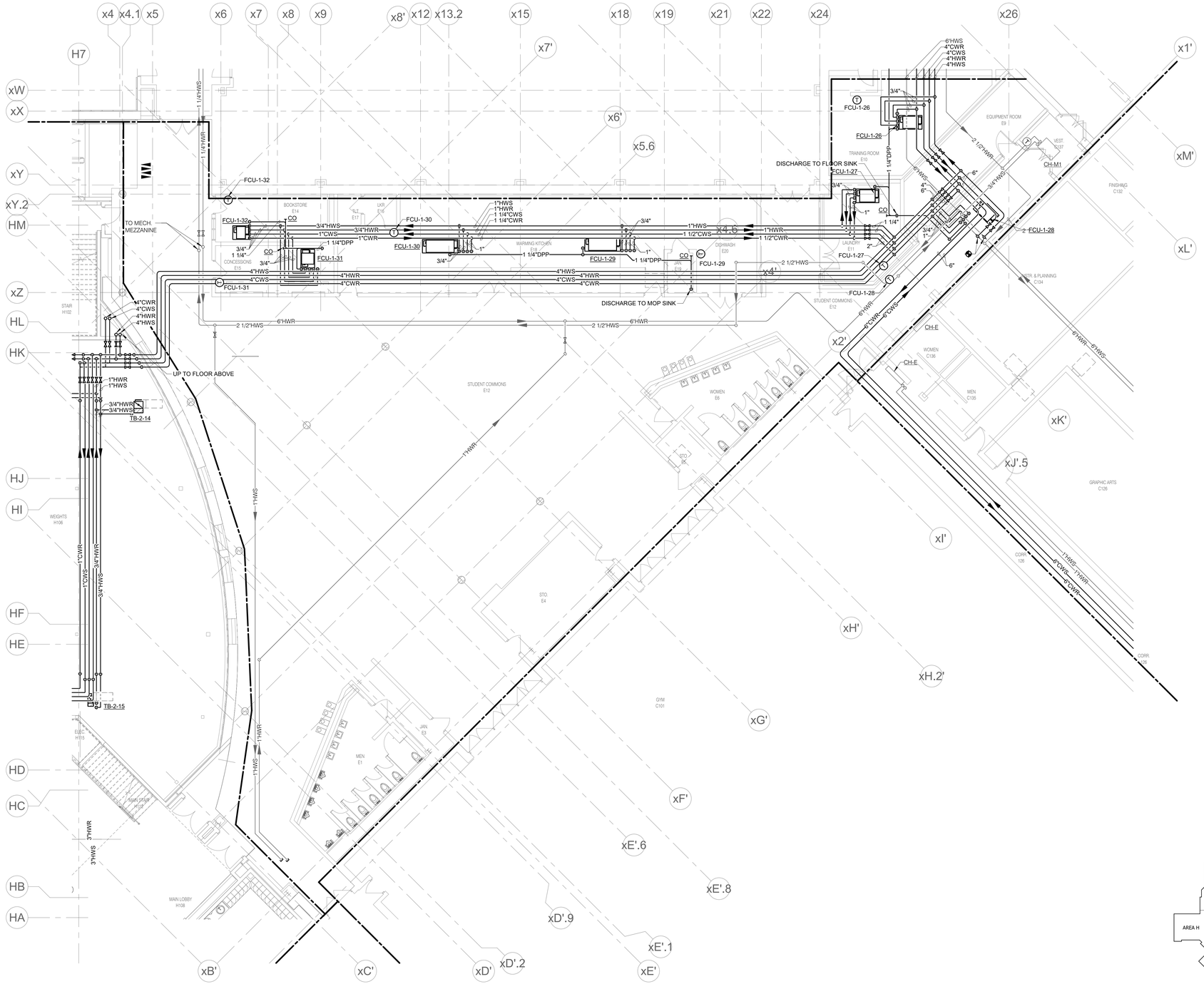
GROUND FLOOR PIPING PLAN - AREA C

M2.1C

1/29/2025 2:39:40 PM

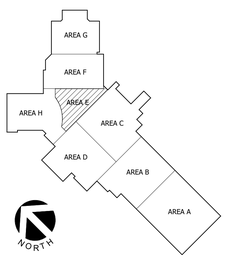
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR PIPING PLAN - AREA E

1/8" = 1'-0"



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HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
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ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

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DWR	MAM
CHK	KDW

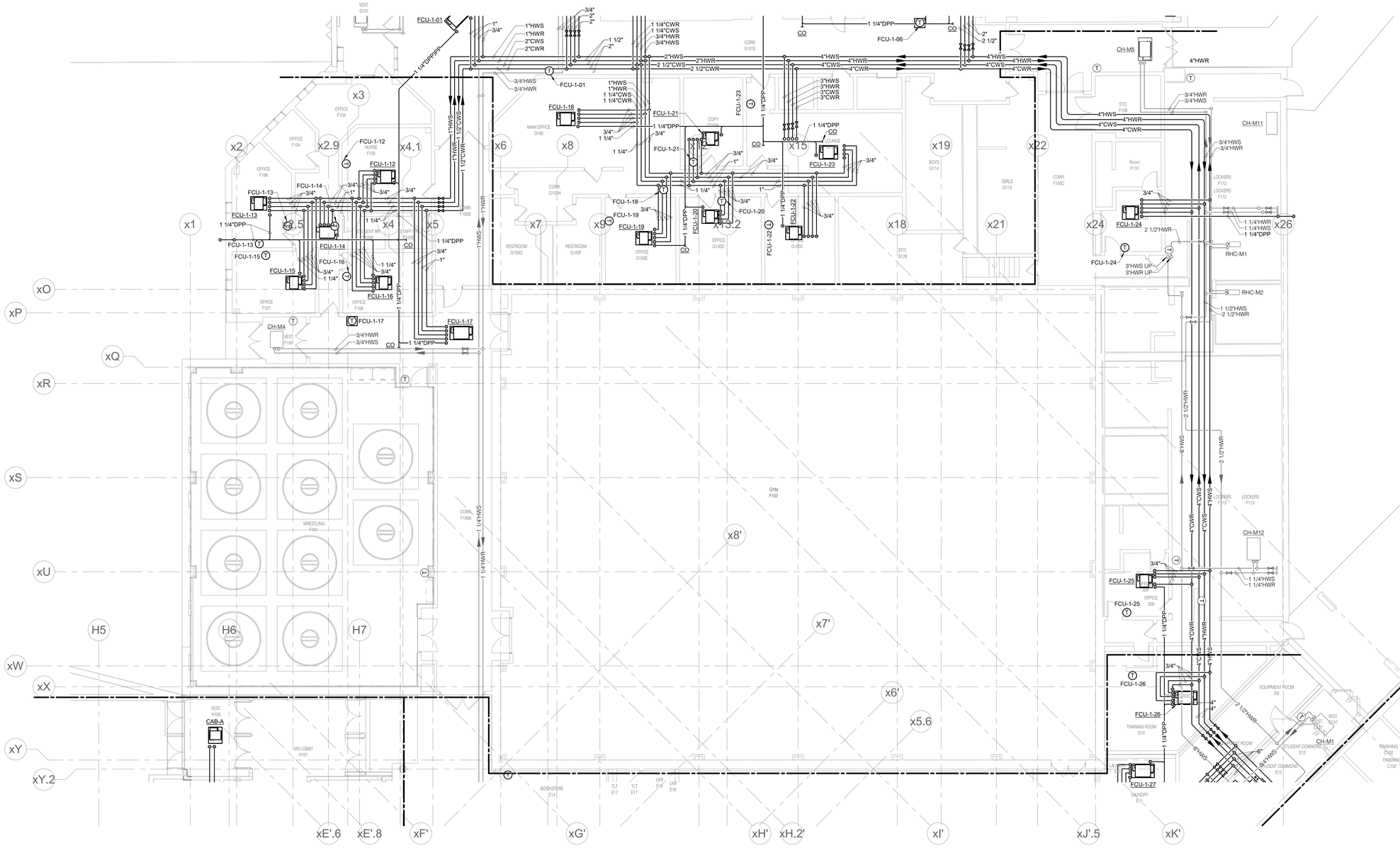
GROUND FLOOR PIPING PLAN - AREA E

M2.1E

1/29/2025 2:39:46 PM

GENERAL NOTES:

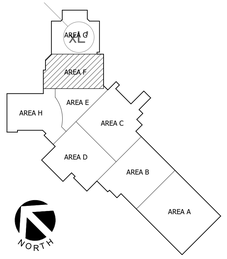
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR PIPING PLAN - AREA F

1/8" = 1'-0"

NORTH



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CHK	KDW

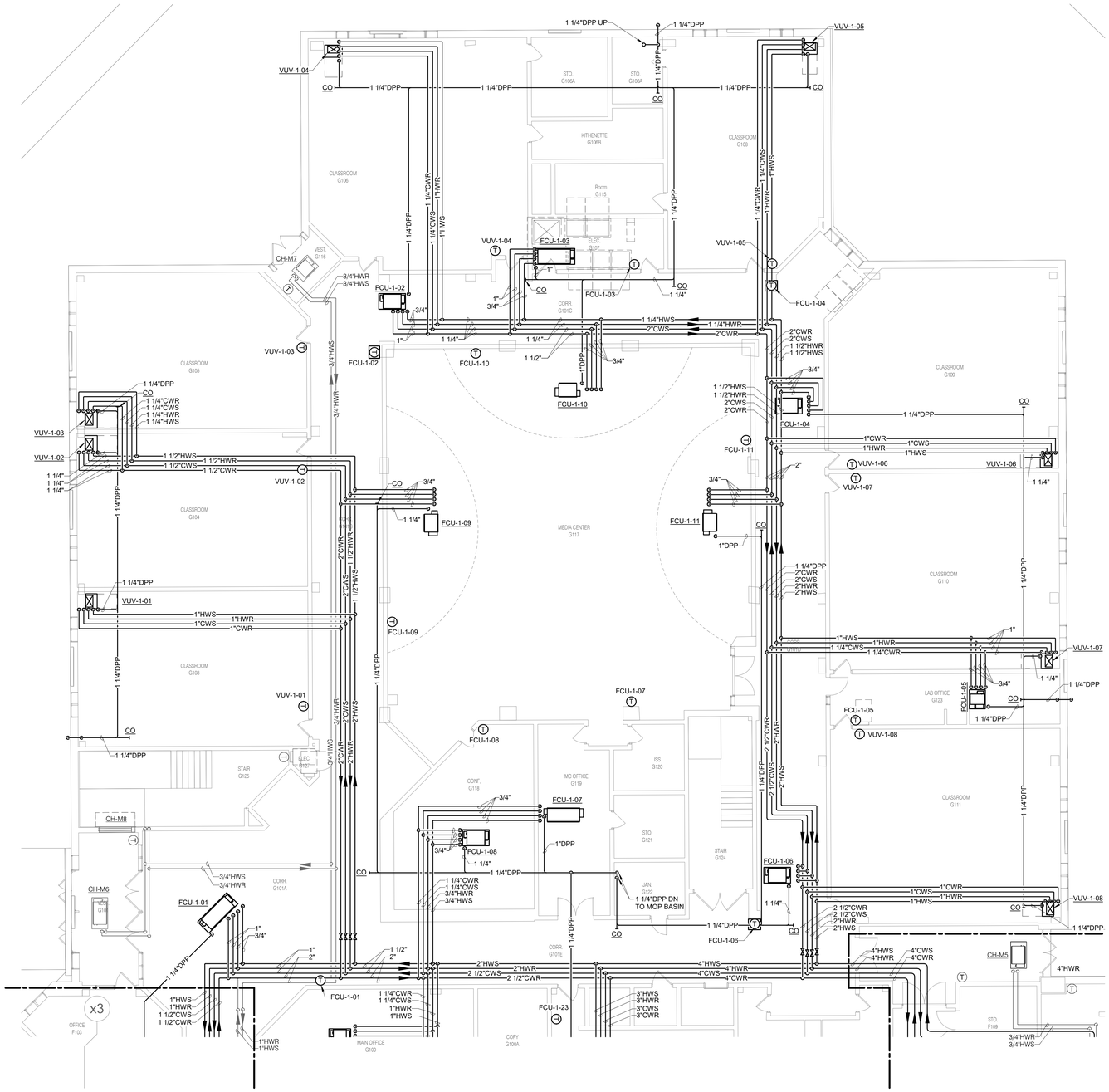
GROUND FLOOR PIPING PLAN - AREA F

M2.1F

1/29/2025 2:39:53 PM

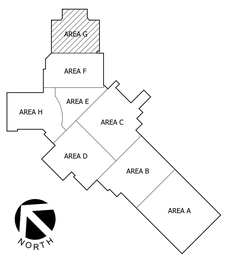
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR PIPING PLAN - AREA G

1/8" = 1'-0"



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DWR	MAM
CHK	KDW

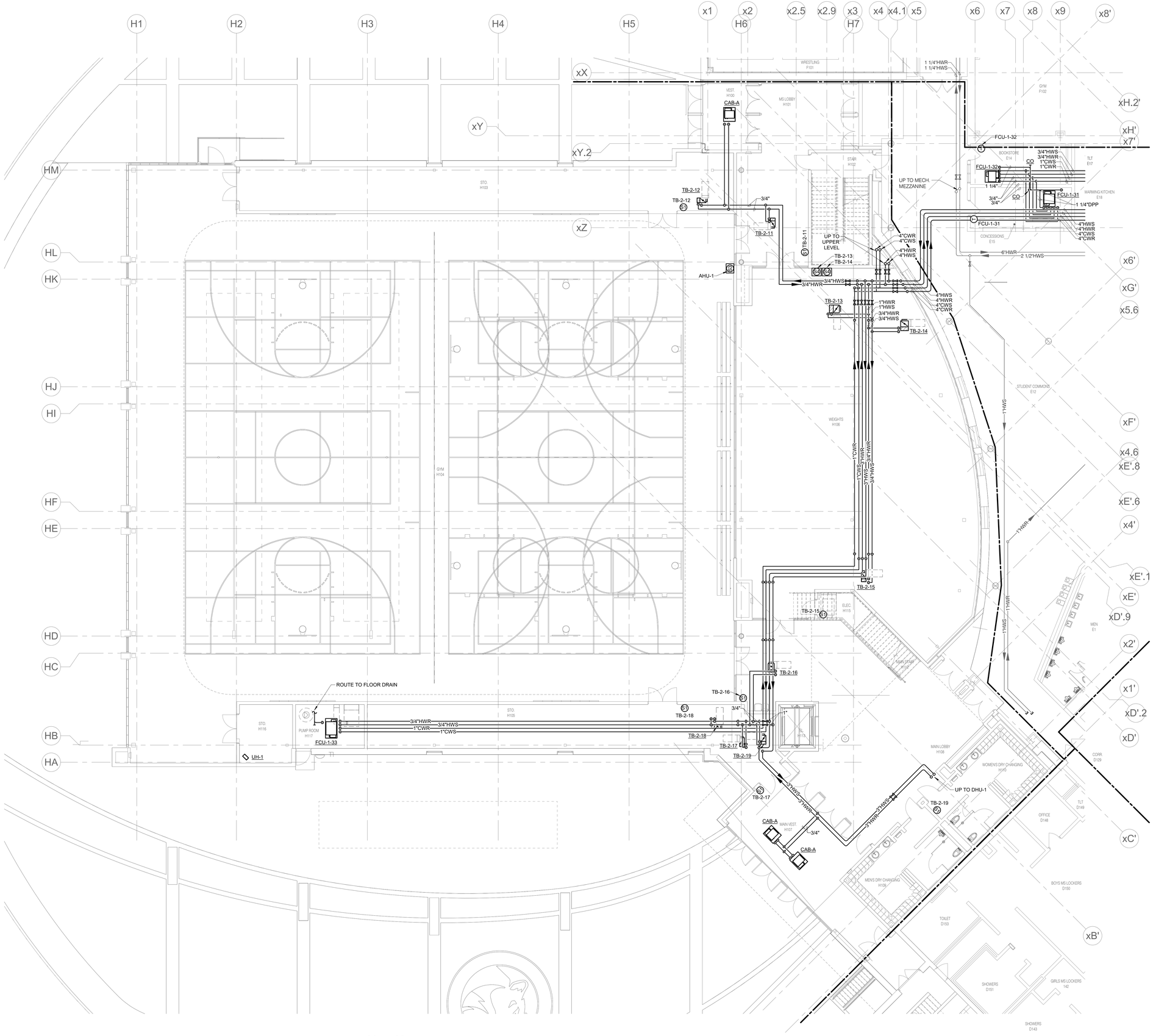
GROUND FLOOR PIPING PLAN - AREA G

M2.1G

1/29/2025 2:39:59 PM

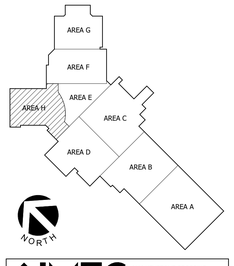
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR PIPING PLAN - AREA H

1/8" = 1'-0"



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GROUND FLOOR PIPING PLAN - AREA H

M2.1H

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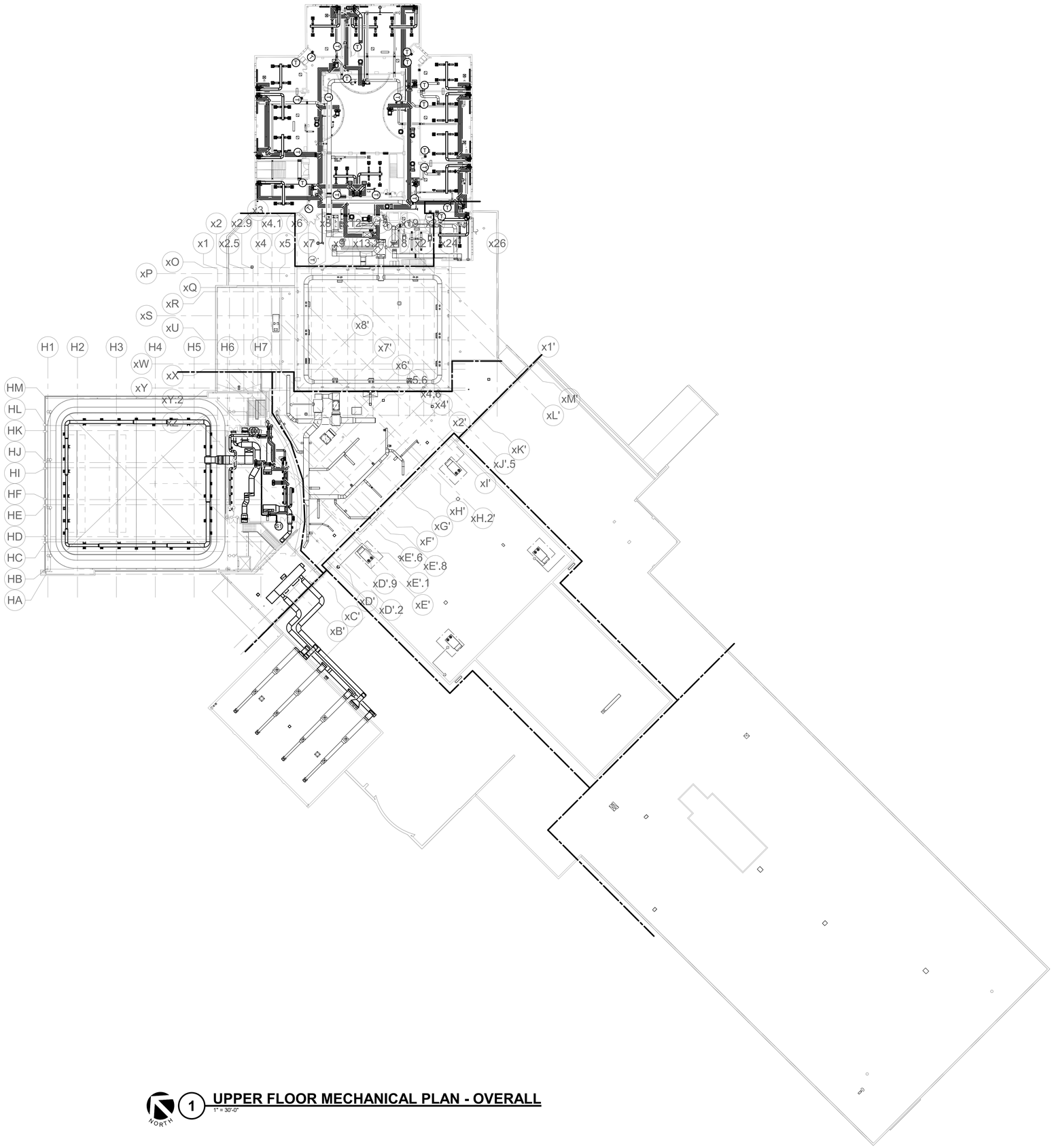
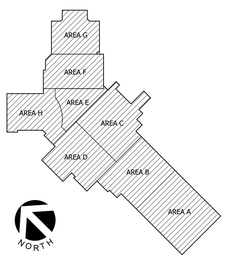


1 UPPER FLOOR MECHANICAL PLAN - OVERALL

1" = 30'-0"



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UPPER FLOOR MECHANICAL PLAN - OVERALL

M2.3

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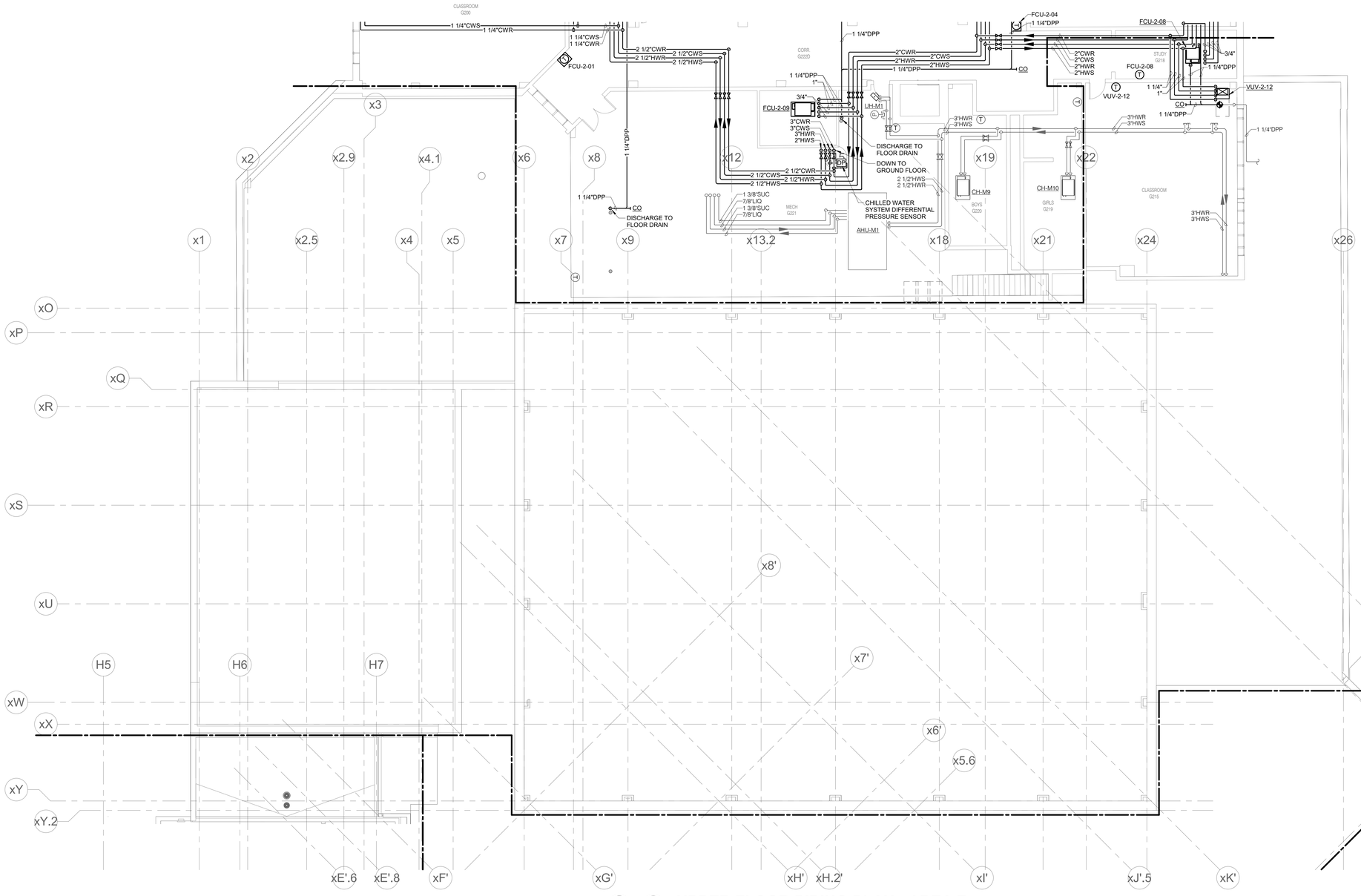
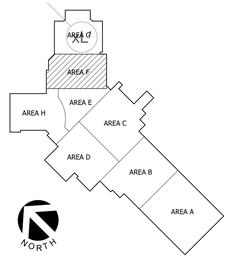
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 UPPER FLOOR PIPING PLAN - AREA F

1/8" = 1'-0"



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WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

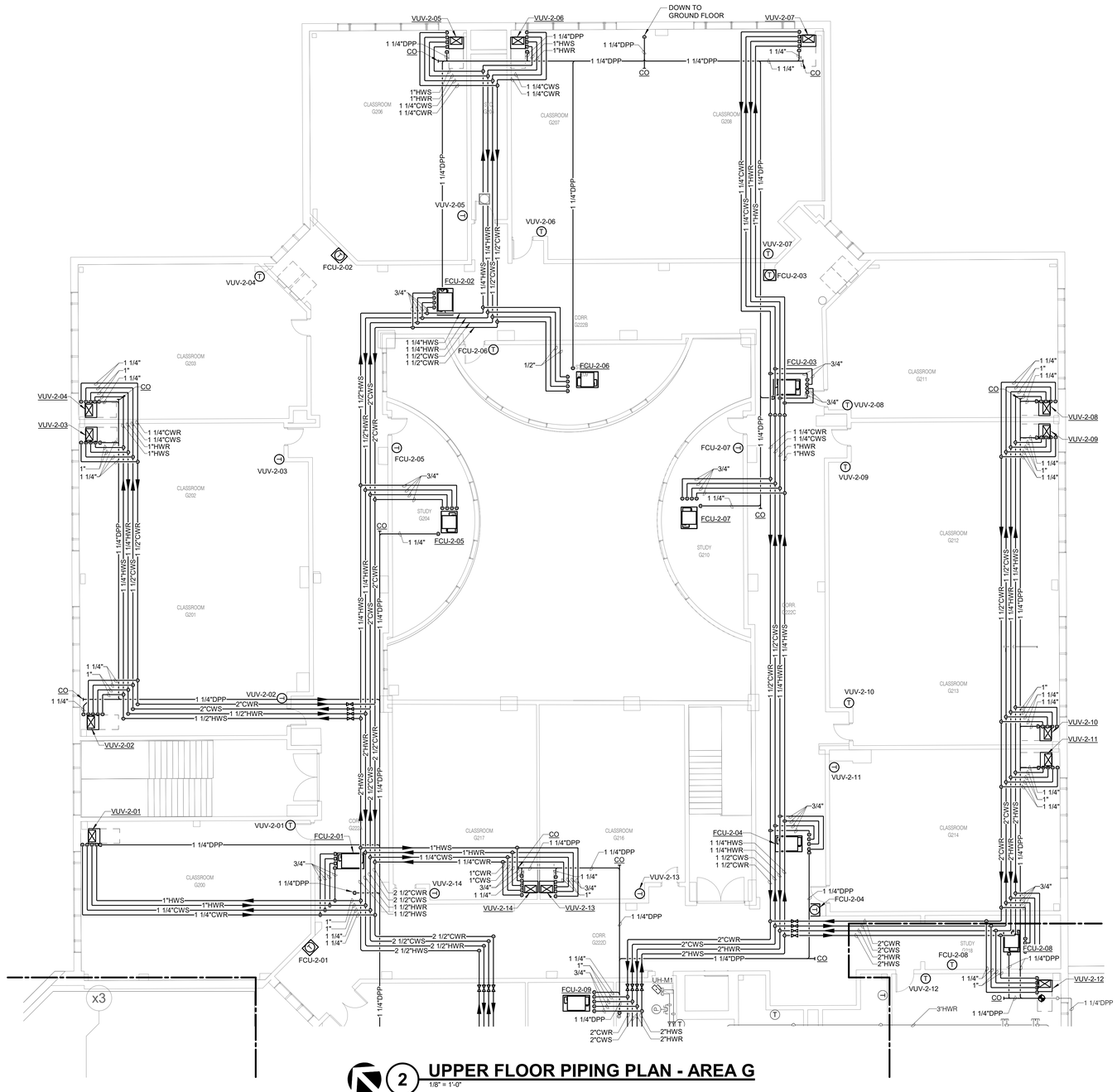
UPPER FLOOR PIPING PLAN - AREA F

M2.3F

1/29/2025 2:49:23 PM

GENERAL NOTES:

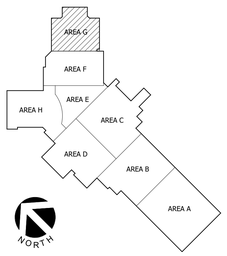
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



NORTH

2 UPPER FLOOR PIPING PLAN - AREA G

1/8" = 1'-0"



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DWR	MAM
CHK	KDW

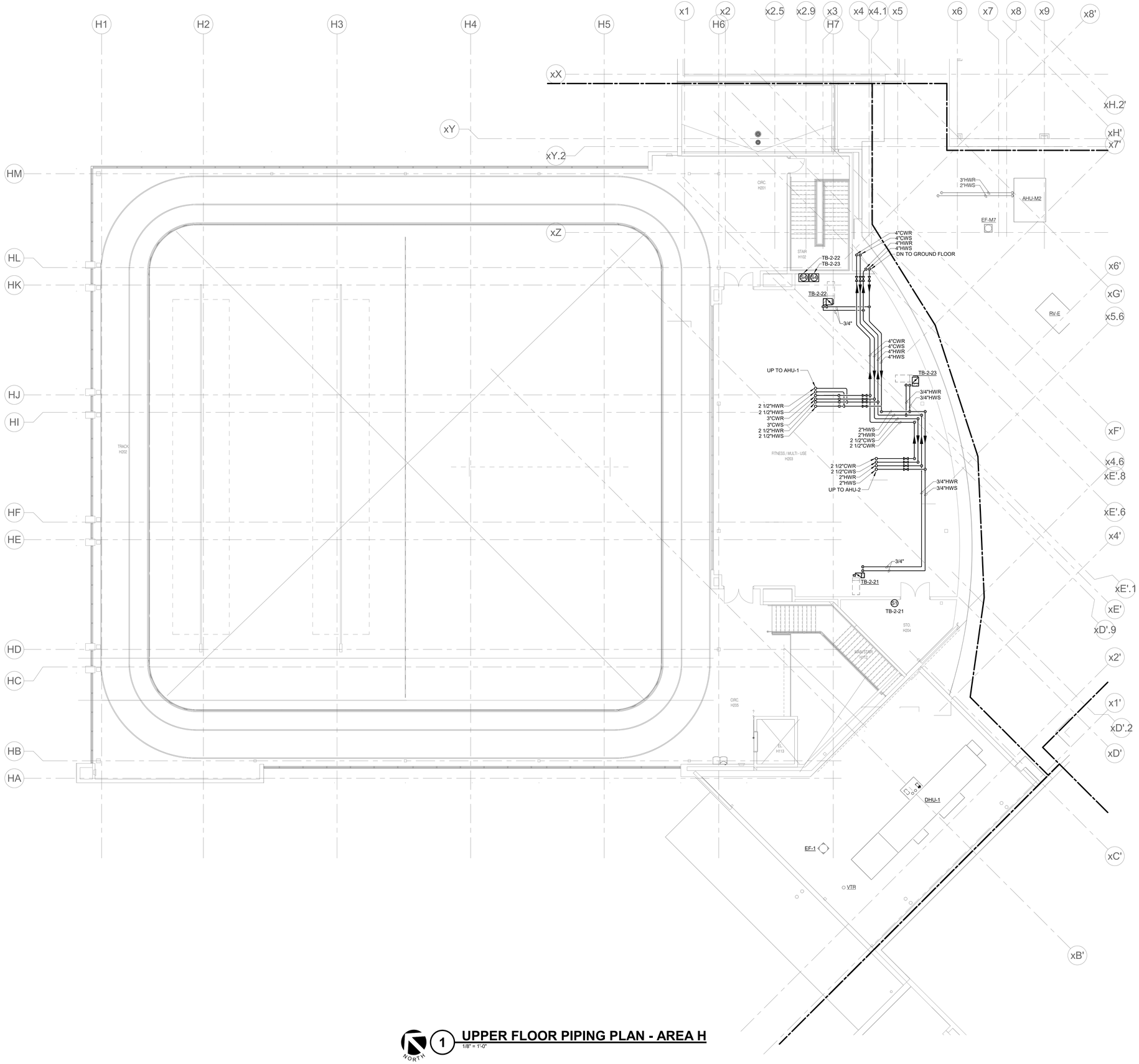
UPPER FLOOR PIPING PLAN - AREA G

M2.3G

1/29/2025 2:40:30 PM

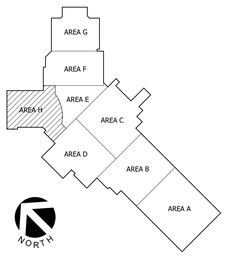
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 UPPER FLOOR PIPING PLAN - AREA H

1/8" = 1'-0"



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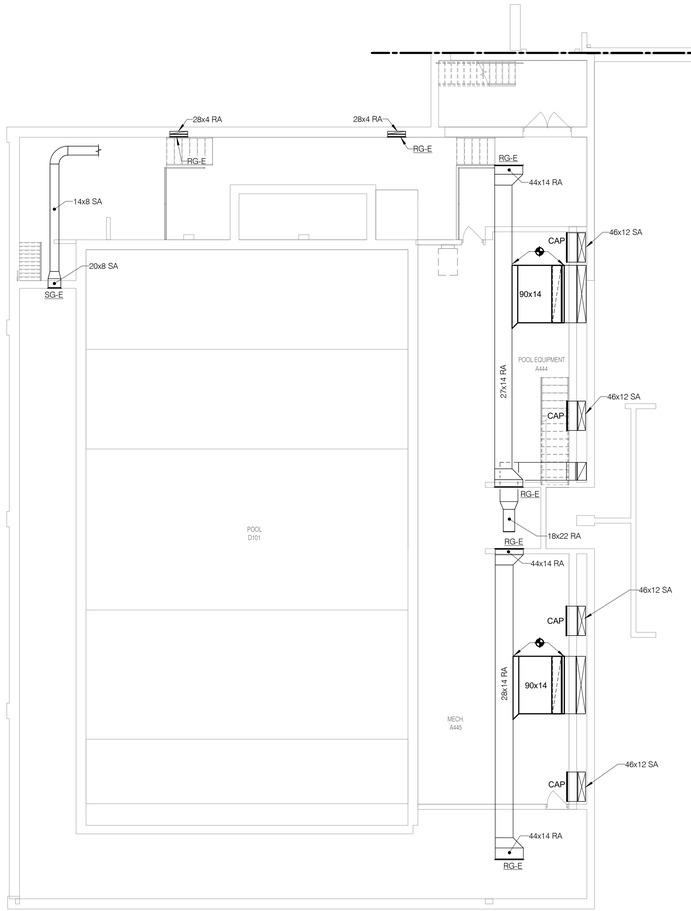
UPPER FLOOR PIPING PLAN - AREA H

M2.3H

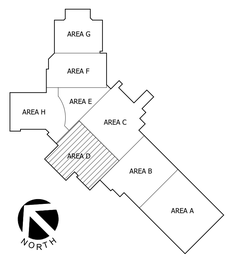
1/29/2025 2:40:33 PM

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 **BASEMENT VENTILATION PLAN - AREA D**
1/8" = 1'-0"



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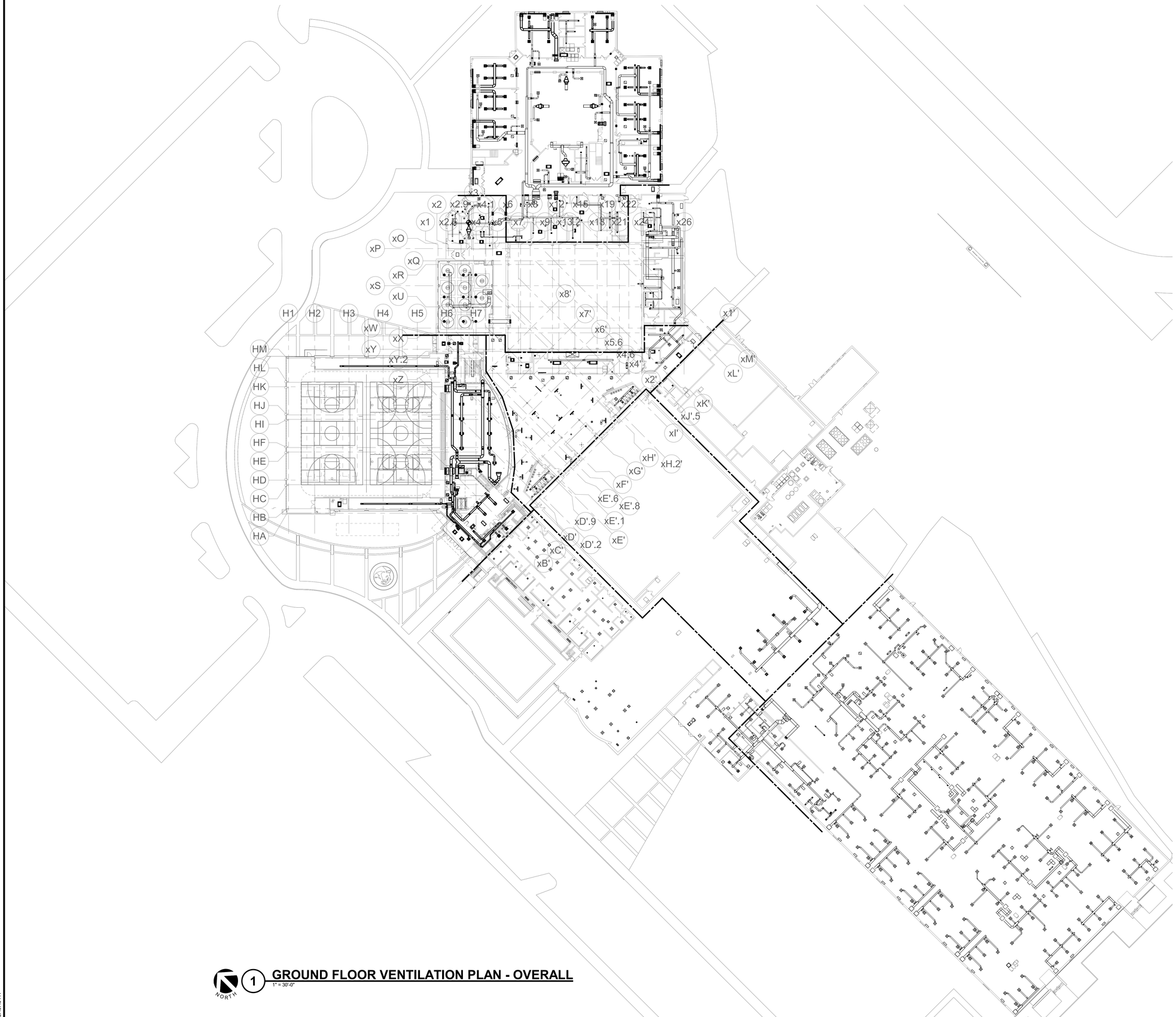
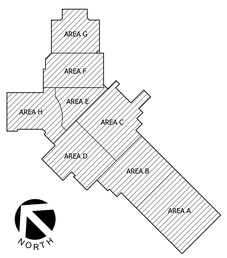
BASEMENT VENTILATION PLAN - AREA D

M3.0D

1/29/2025 2:40:36 PM



1 **GROUND FLOOR VENTILATION PLAN - OVERALL**
1" = 30'-0"



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DWR	MAM
CHK	KDW

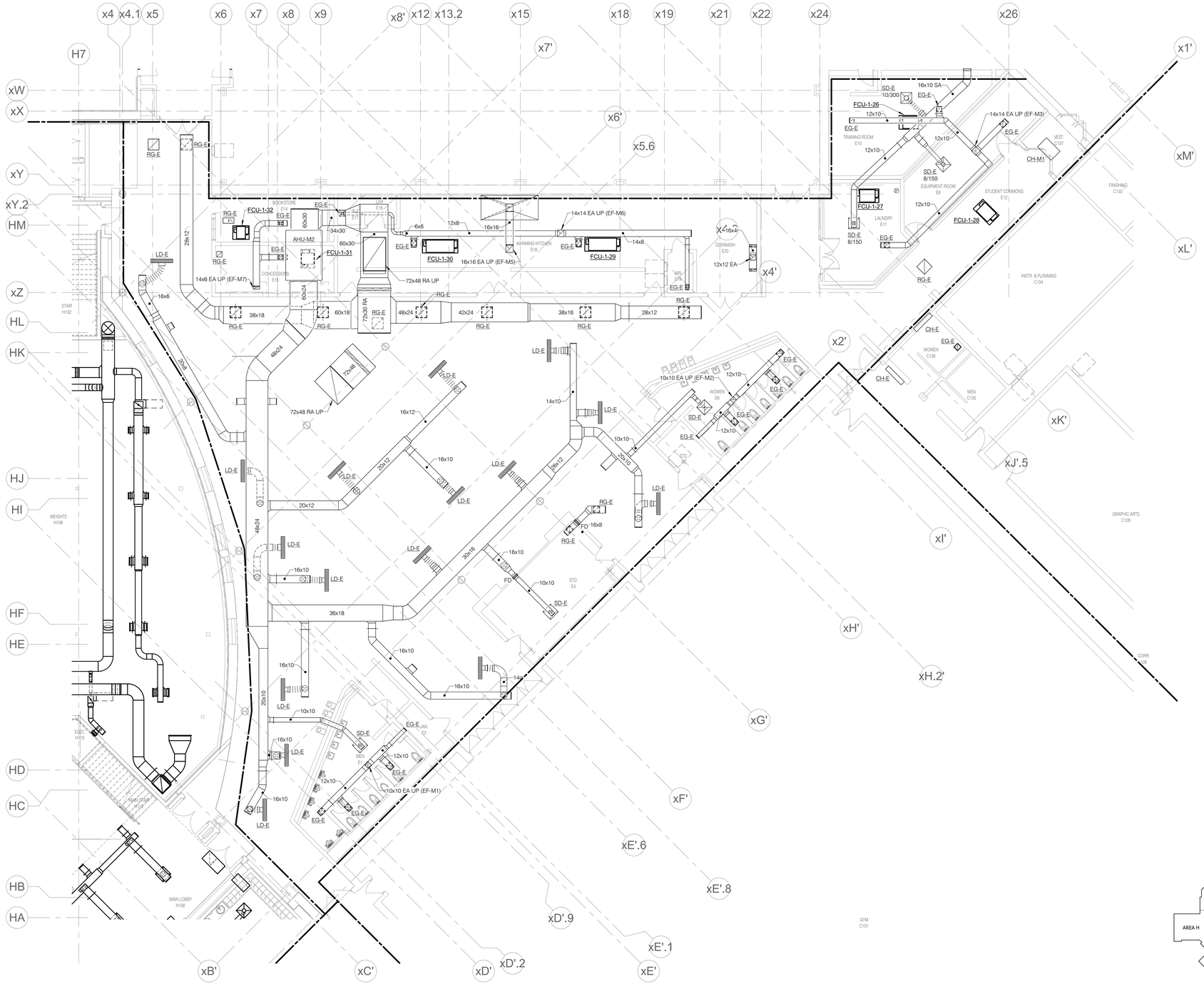
GROUND FLOOR VENTILATION PLAN - OVERALL

M3.1

1/29/2025 2:40:46 PM

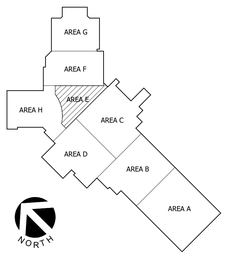
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR VENTILATION PLAN - AREA E

1/8" = 1'-0"



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KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
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CHK	KDW

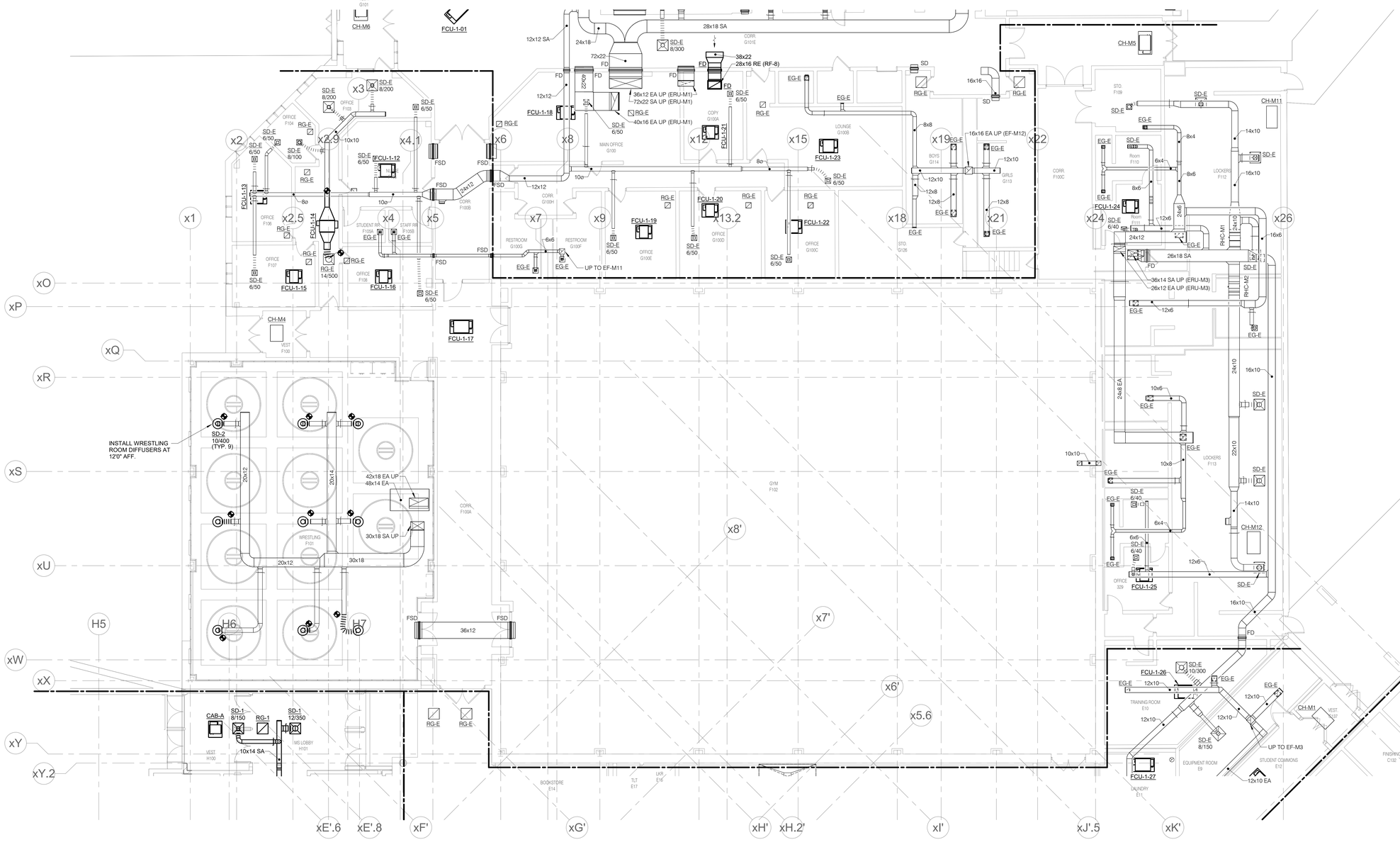
GROUND FLOOR VENTILATION PLAN - AREA E

M3.1E

1/29/2025 2:46:51 PM

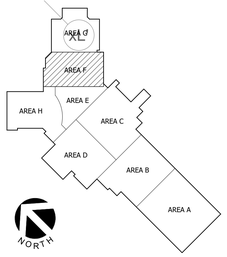
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR VENTILATION PLAN - AREA F

1/8" = 1'-0"



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WILLIAMS ARCHITECTS

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WA No.	2024-006
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DWR	MAM
CHK	KDW

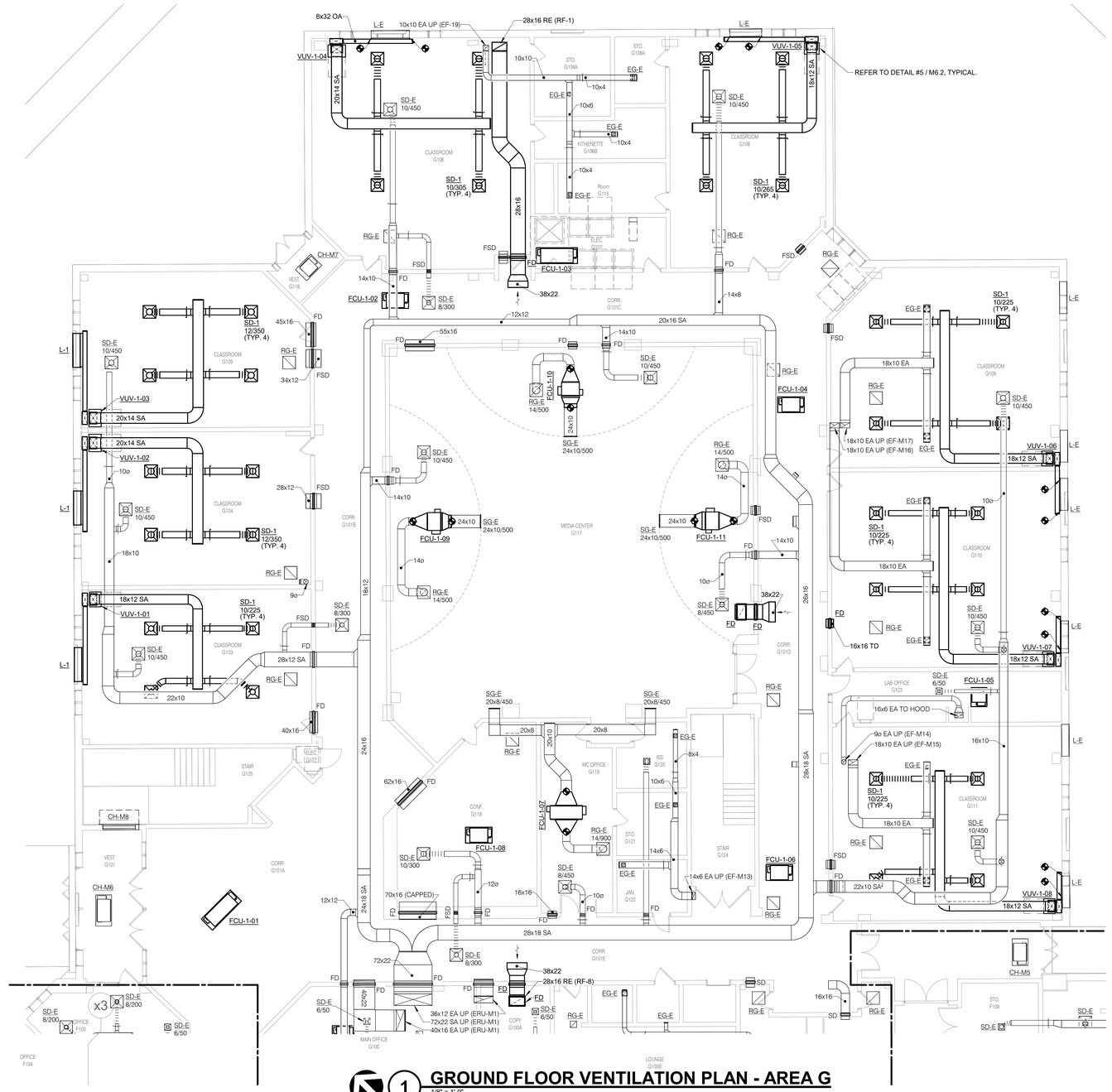
GROUND FLOOR VENTILATION PLAN - AREA F

M3.1F

1/29/2025 2:40:55 PM

GENERAL NOTES:

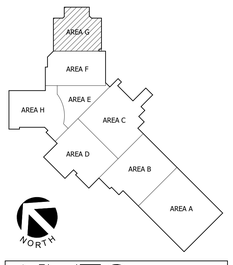
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 GROUND FLOOR VENTILATION PLAN - AREA G

1/8" = 1'-0"

NORTH



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GROUND FLOOR VENTILATION PLAN - AREA G

M3.1G

1/29/2025 2:46:59 PM

1 GROUND FLOOR VENTILATION PLAN - AREA H

1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

KEYNOTES: (#)

1. COVER RETURN OPENING WITH 1/2"x1/2" HARDWARE CLOTH.
2. MOUNT BOTTOM OF GRILLE AT 8'-2" AFF.
3. MOUNT BOTTOM OF GRILLE AT 12'-7" AFF.
4. GRILLE IN CEILING.

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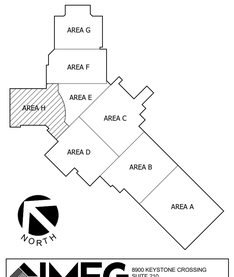

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CHK	KDW

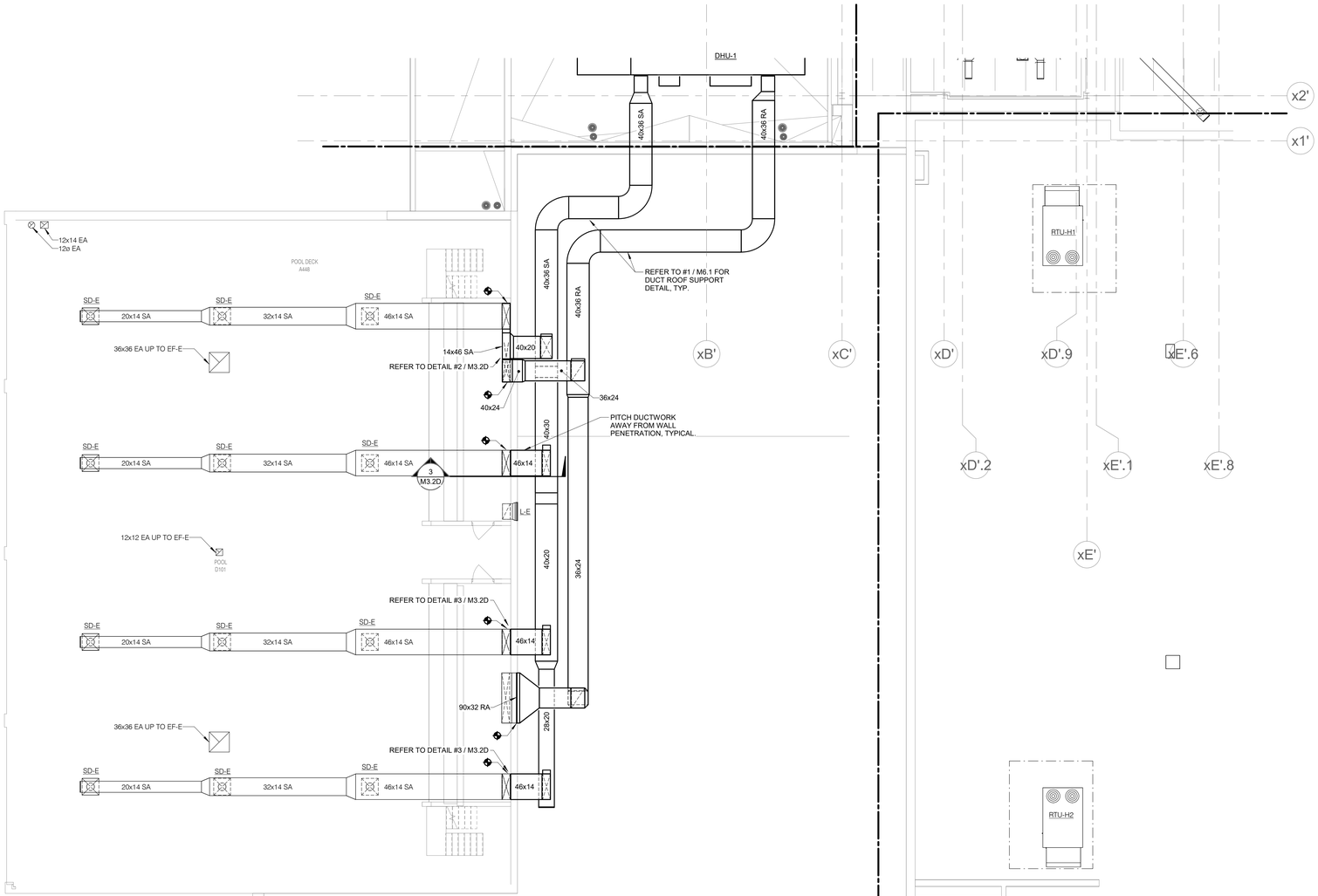
GROUND FLOOR VENTILATION PLAN - AREA H

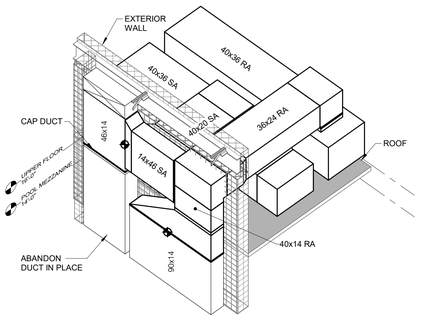
M3.1H

1/29/2025 2:41:01 PM

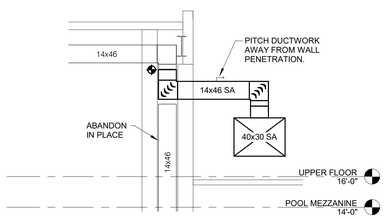
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.





2 POOL SA AND RA DUCT CONNECTIONS

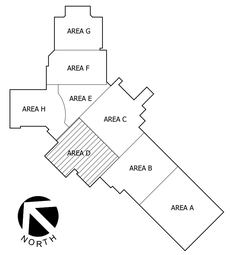


3 POOL SA DUCT CONNECTION

1/4" = 1'-0"

1 POOL MEZZANINE VENTILATION PLAN - AREA D

1/8" = 1'-0"



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01.31.25

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POOL MEZZANINE VENTILATION PLAN - AREA D

M3.2D

1/29/2025 2:41:04 PM

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

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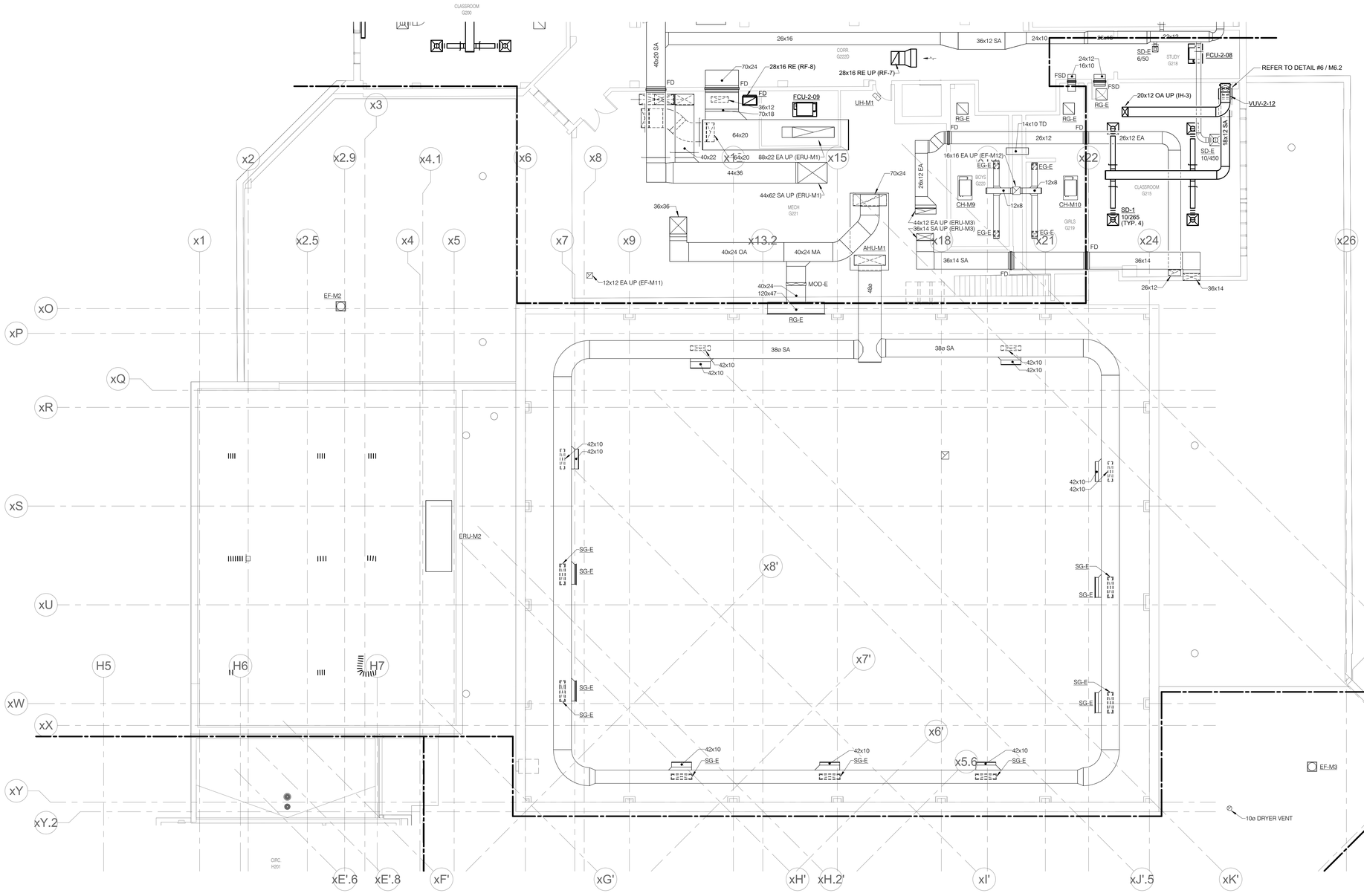
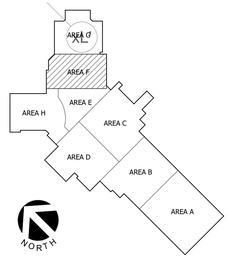
01.31.25



NORTH

1 UPPER FLOOR VENTILATION PLAN - AREA F

1/8" = 1'-0"



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UPPER FLOOR VENTILATION PLAN - AREA F

M3.3F

1/29/2025 2:41:07 PM

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

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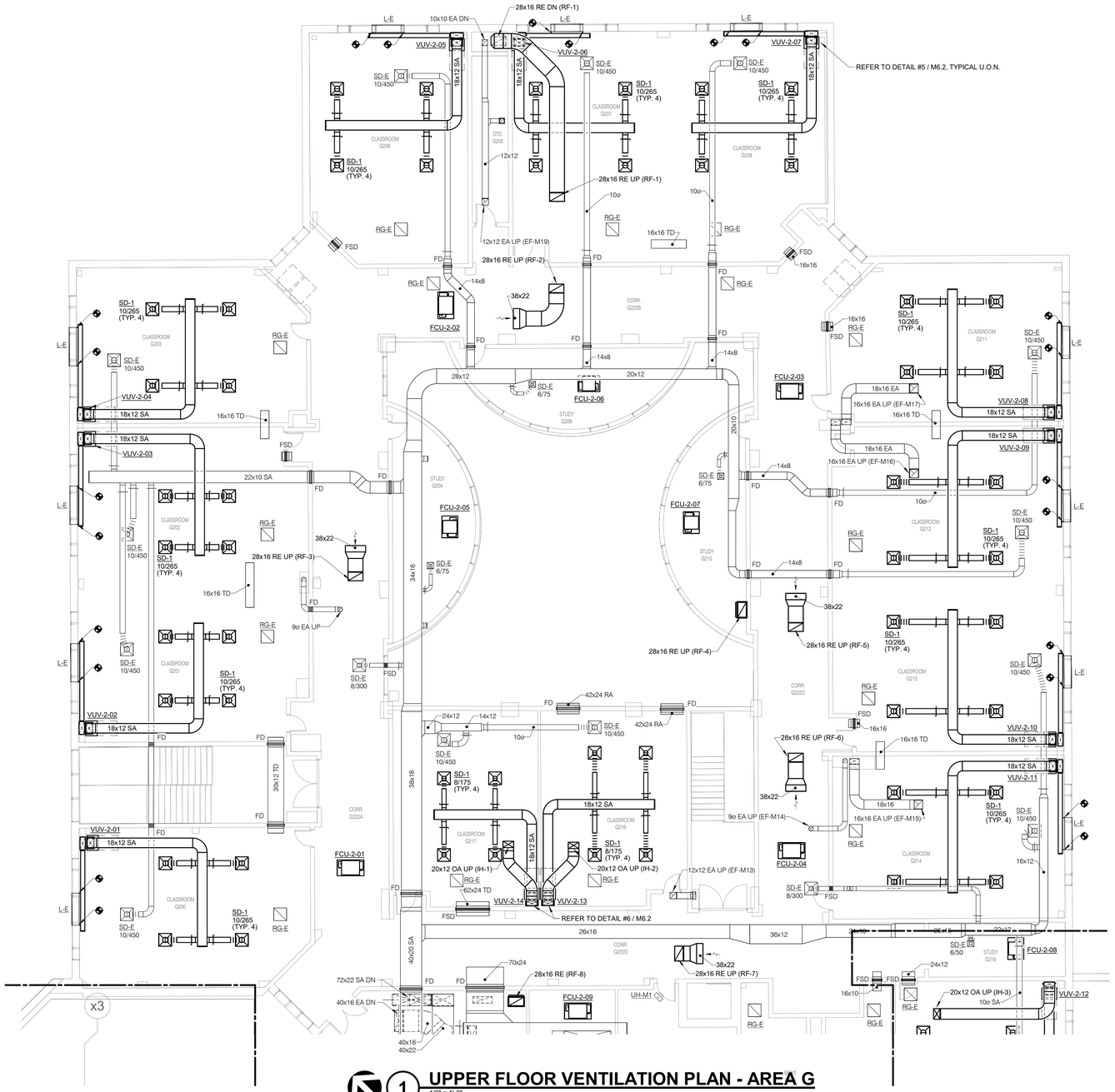
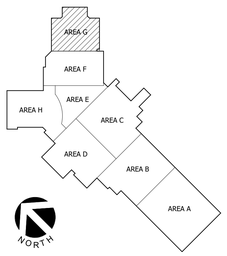


NORTH

1 UPPER FLOOR VENTILATION PLAN - AREA G

1/8" = 1'-0"



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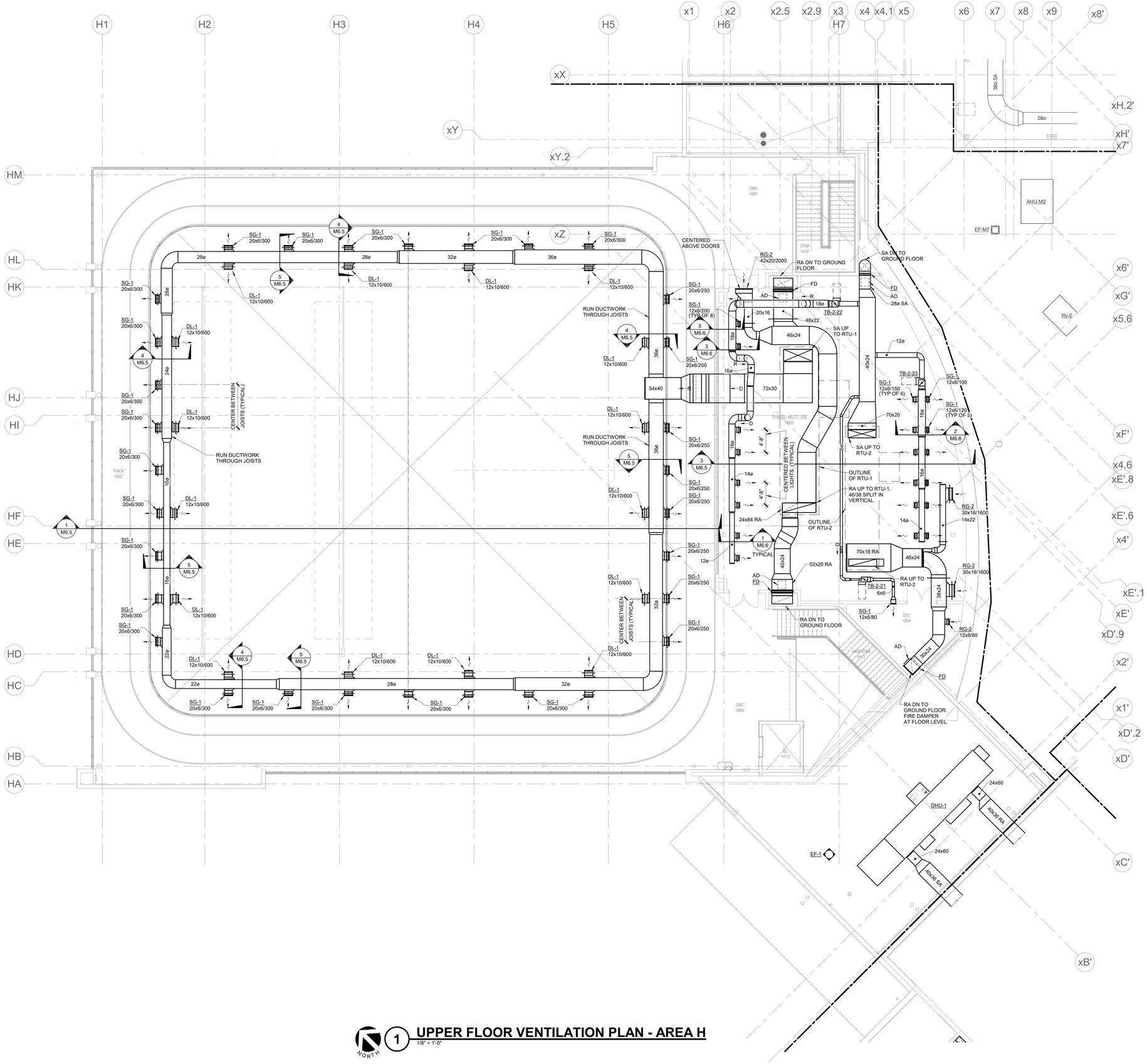
UPPER FLOOR VENTILATION PLAN - AREA G

M3.3G

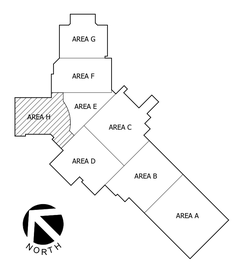
1/29/2025 2:41:11 PM



1 UPPER FLOOR VENTILATION PLAN - AREA H
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



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CHK	KDW

UPPER FLOOR VENTILATION PLAN - AREA H

M3.3H

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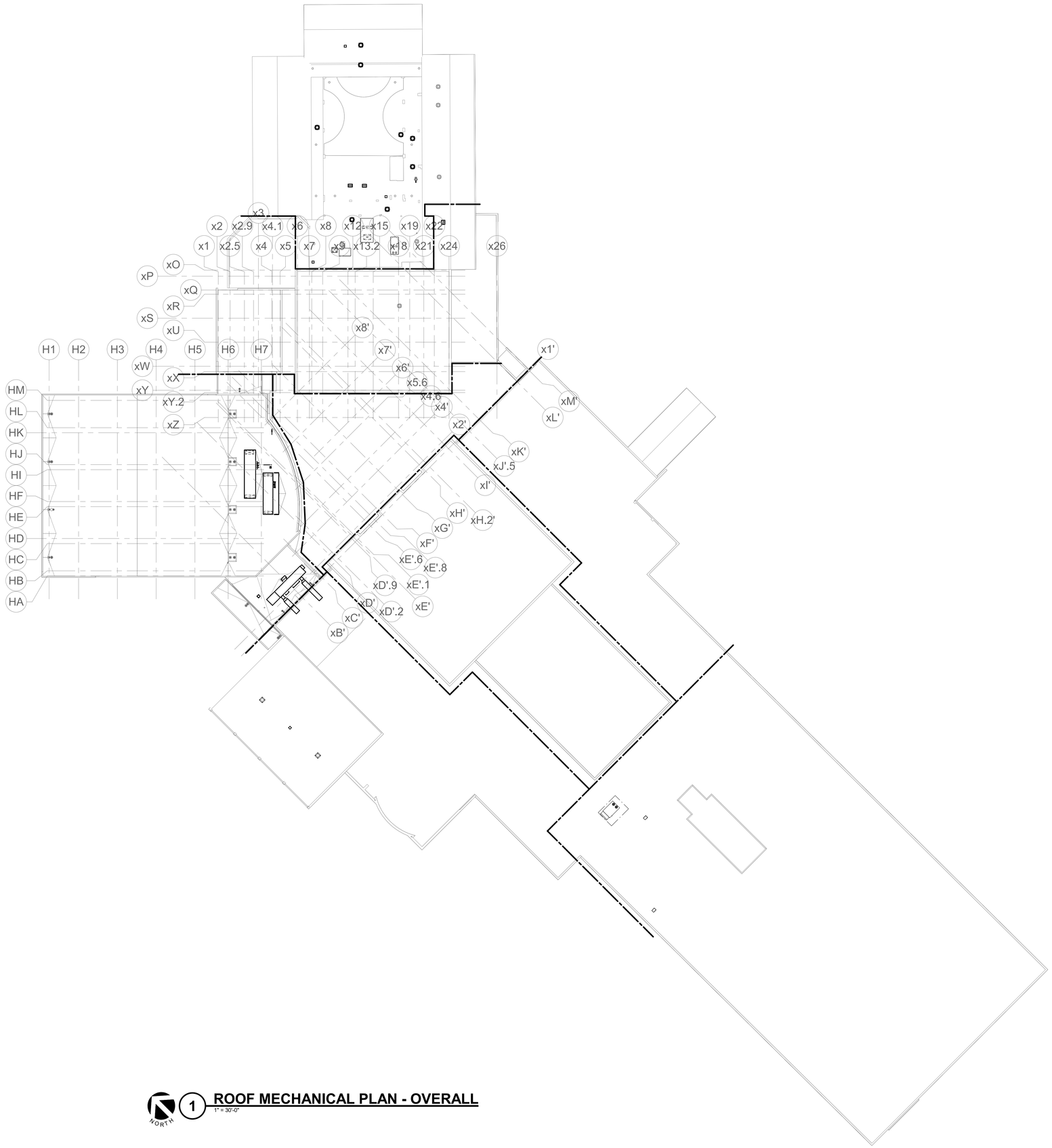
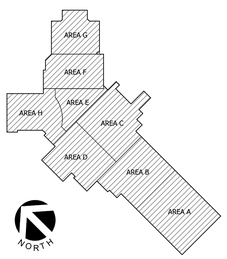


1 **ROOF MECHANICAL PLAN - OVERALL**

1" = 30'-0"



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CHK	KDW

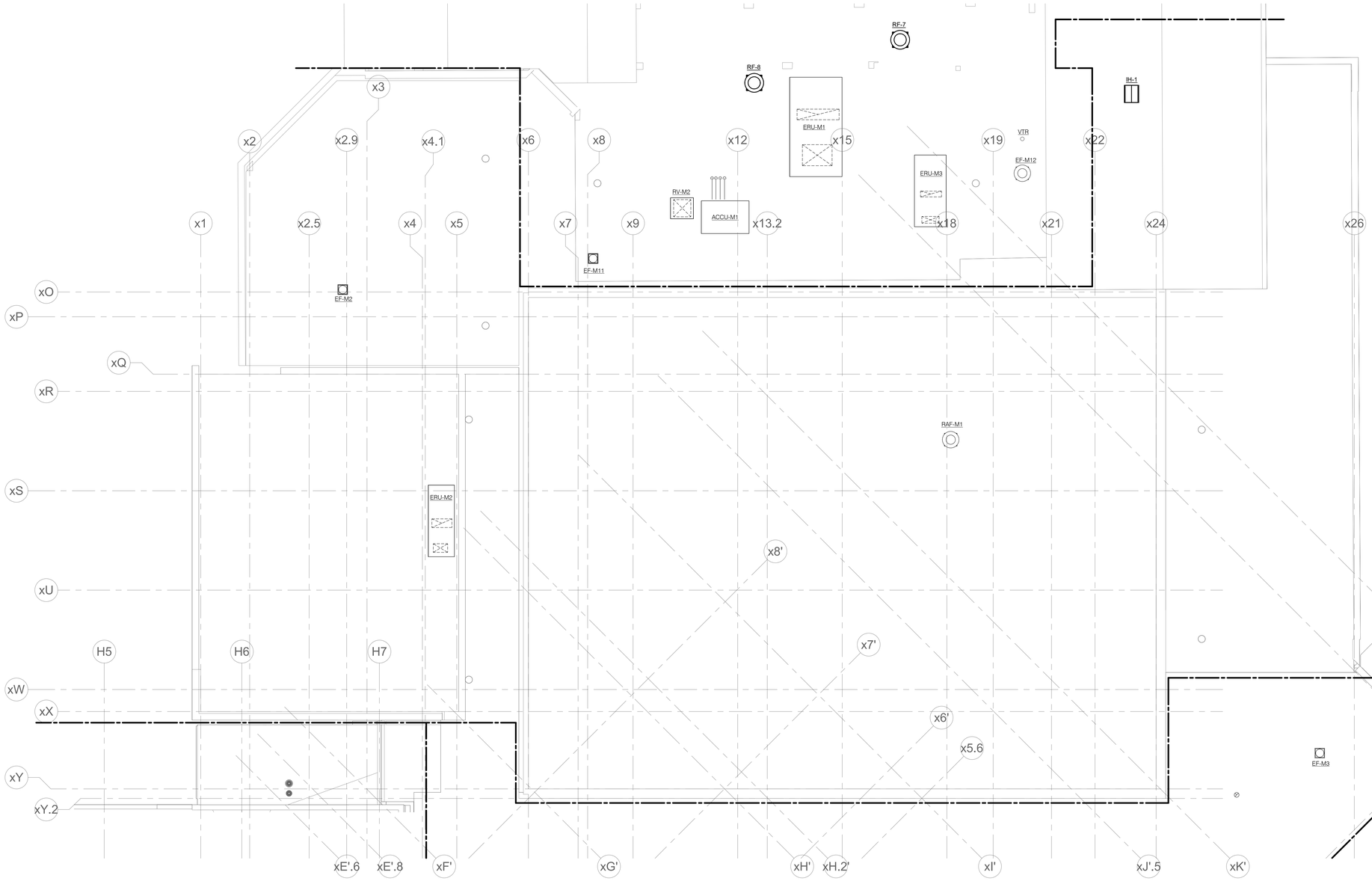
ROOF MECHANICAL PLAN - OVERALL

M3.4

1/29/2025 3:06:51 PM

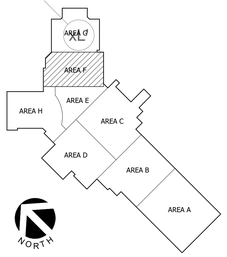
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



1 ROOF MECHANICAL PLAN - AREA F

1/8" = 1'-0"



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ROOF MECHANICAL PLAN - AREA F

M3.4F

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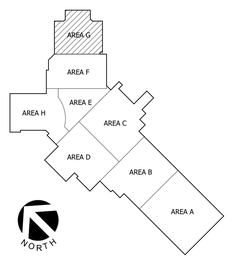
GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.

1 ROOF MECHANICAL PLAN - AREA G

1/8" = 1'-0"



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STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

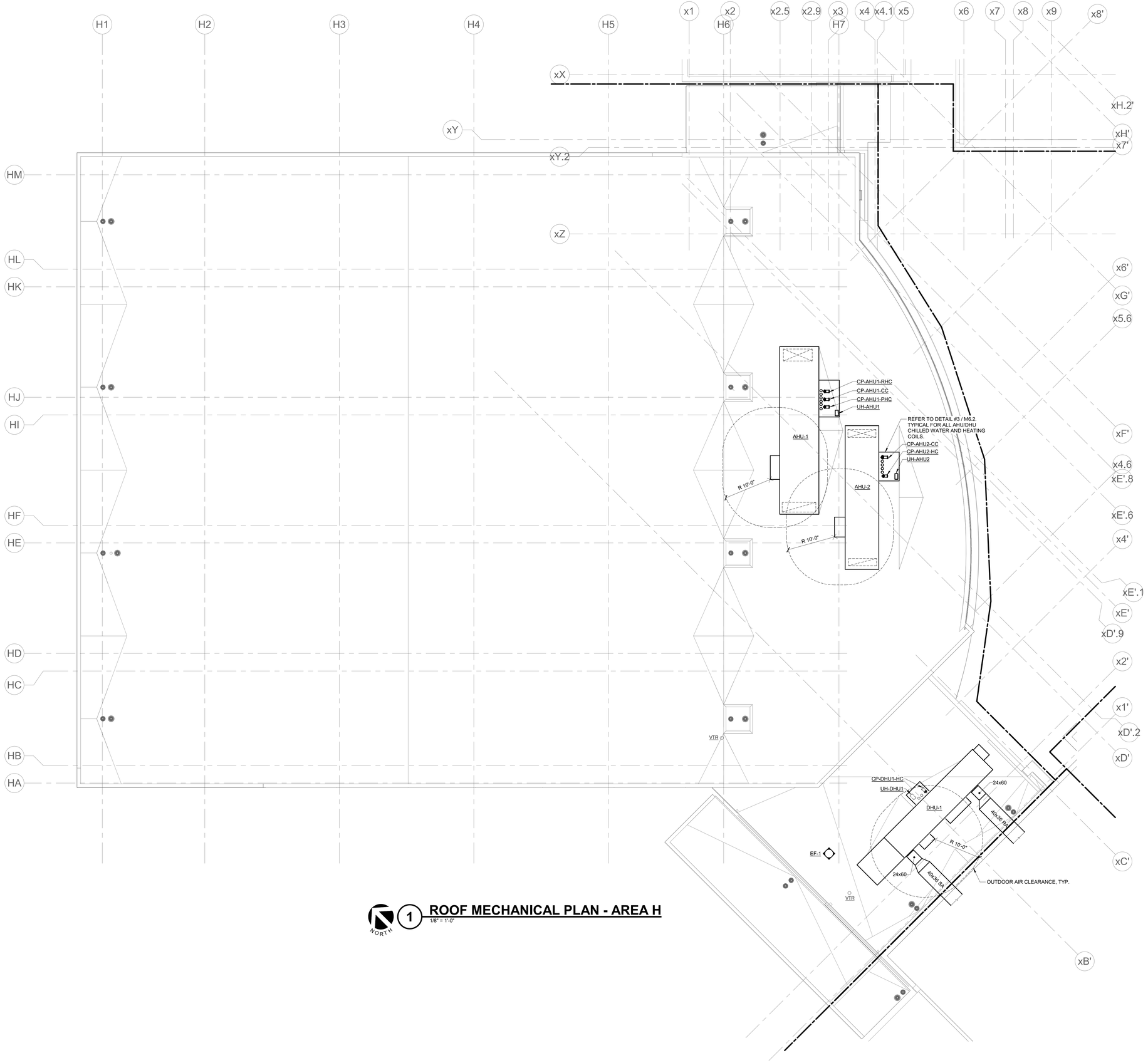
ROOF MECHANICAL PLAN - AREA G

M3.4G

1/29/2025 2:41:28 PM

GENERAL NOTES:

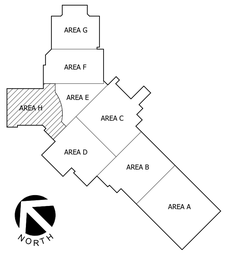
A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



NORTH

1 ROOF MECHANICAL PLAN - AREA H

1/8" = 1'-0"



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REF. SCALE IN INCHES

PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

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ROOF MECHANICAL PLAN - AREA H

M3.4H

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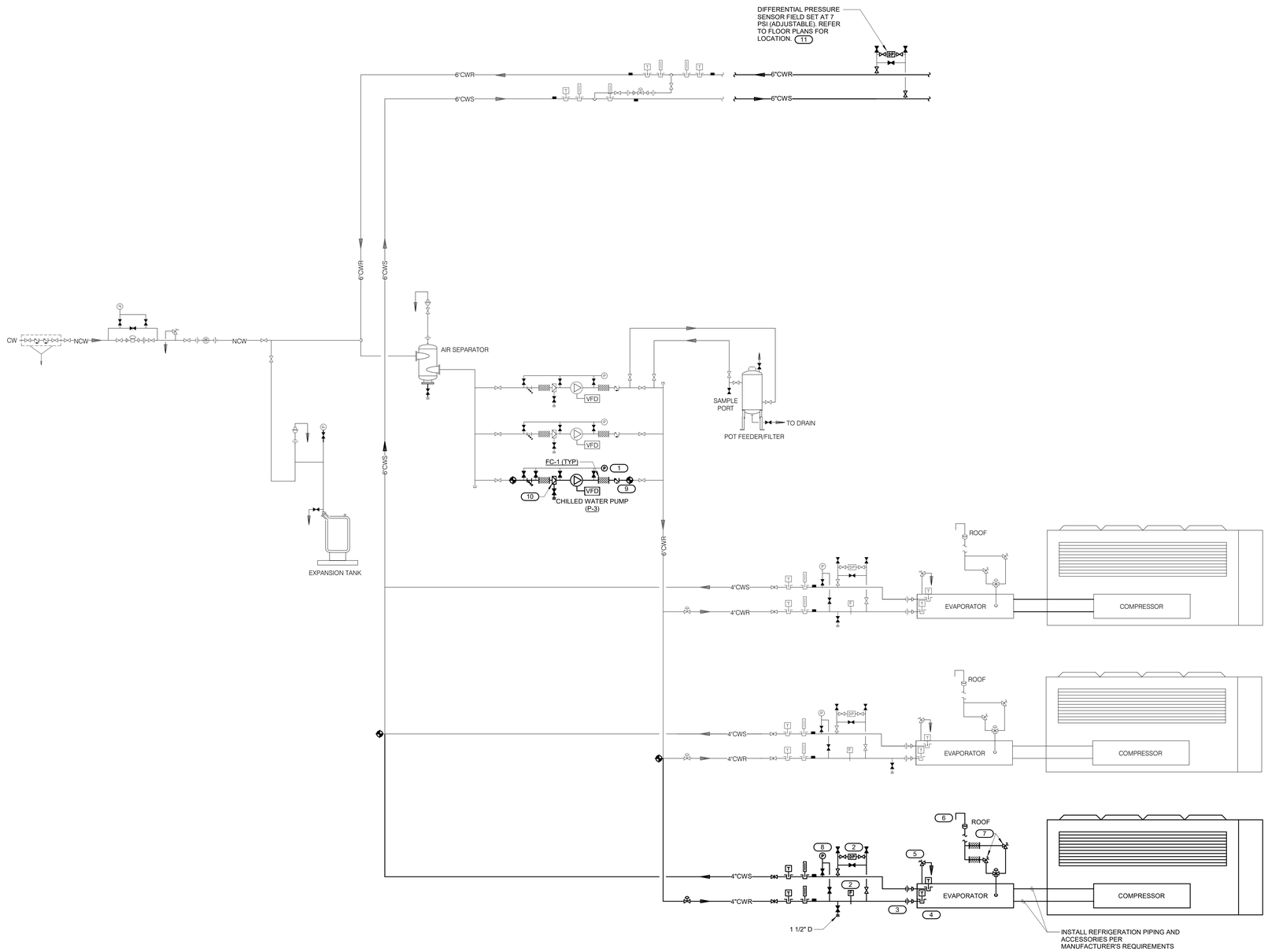

1 CHILLED WATER PLANT - MULTIPLE AIR COOLED CHILLER - VARIABLE PRIMARY FLOW DIAGRAM

NO SCALE

KEYNOTES: (#)

1. PRESSURE GAUGE WITH SNUBBER PER SPECIFICATIONS. MOUNT ON WALL, STAND, OR VIBRATION-FREE PIPE BRACKET ABOVE PUMP. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. GAUGE SHALL BE GLYCERIN FILLED. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER & PUMP INLET, (c) GAUGE TAPPING ON PUMP INLET FLANGE, (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. DIFFERENTIAL PRESSURE FLOW SWITCH FURNISHED BY CHILLER MANUFACTURER, FIELD INSTALLED.
3. GROOVED COUPLING/FLANGED CONNECTIONS ARRANGED TO PERMIT PULLING OF TUBES WITH REMOVAL OF MINIMUM AMOUNT OF PIPE. MINIMUM OF THREE FLEXIBLE GROOVED COUPLINGS OR FC-1 FOR VIBRATION ISOLATION. REFER TO SPECIFICATIONS.
4. TEMPERATURE SENSORS INTERNAL TO CHILLER. MONITOR THRU DDC OR PROVIDE SEPARATE SENSORS.
5. CHILLED WATER SIDE SAFETY RELIEF VALVES PER ASME. 3/4" SRV-1. REFER TO SPECIFICATIONS.
6. PIPE REFRIGERANT RELIEF VENT THROUGH ROOF IF REQUIRED BY MANUFACTURER. DO NOT COMBINE INDIVIDUAL CHILLER VENTS TOGETHER. ELBOW DOWN FOR RAIN PROTECTION. PITCH 1/8" PER FOOT AWAY FROM CHILLER, SIZE PER MANUFACTURER'S RECOMMENDATIONS. PIPING SHALL BE SCHEDULE 40 STEEL.
7. RUPTURE DISK OR REFRIGERANT RELIEF VALVES WITH BYPASS MAINTENANCE SHUTTLE VALVE. VERIFY SIZE AND REQUIREMENTS WITH MANUFACTURER.
8. PRESSURE GAUGES SHALL BE GLYCERIN FILLED.
9. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE FLOW SYSTEMS. USE FLOW METER FOR PUMP FLOW TESTING.
10. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
11. DIFFERENTIAL PRESSURE SENSOR USED TO CONTROL VFDs. PIPE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY FINAL LOCATION WITH ENGINEER.
12. THE NUMBER OF COILS MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR SHALL SIZE PIPING TO EACH COIL SECTION AT NOT OVER 4 FEET OF PRESSURE DROP PER 100 FEET OF PIPE AND PROVIDE ADDITIONAL UNIONS, VALVES, AND P/T PLUGS AS SHOWN FOR COILS.

FLOW DIAGRAM SYMBOLS LIST

SYMBOL:	DESCRIPTION:
—CW—	COLD WATER - POTABLE
—CWR—	CHILLED WATER RETURN
—CWS—	CHILLED WATER SUPPLY
—D—	DRAIN LINE
—NCW—	NON-POTABLE COLD WATER
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	VENTURI VALVE
	THROTTLING VALVE
0.5	BALANCING VALVE (NO. INDICATES GPM)
	AUTOMATIC DRAIN VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID/TWO POSITION VALVE
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
F	FLOW SWITCH
FM	FLOW METER

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CHK	KDW

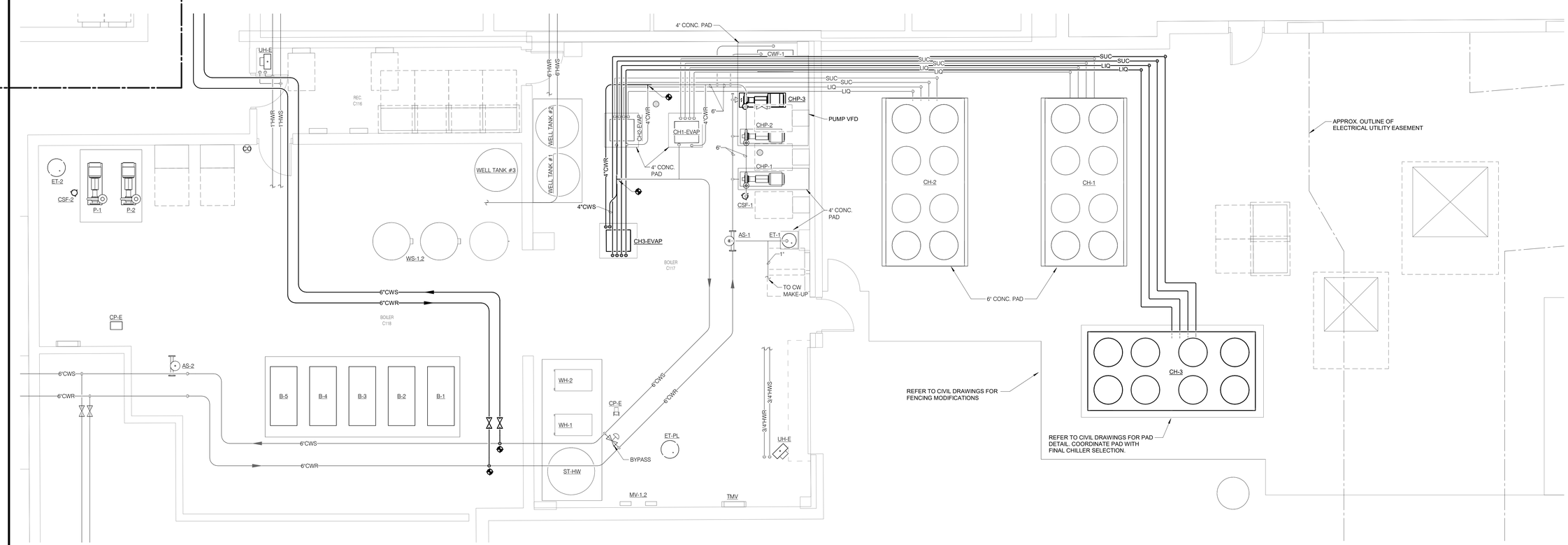
CHILLED WATER FLOW DIAGRAM

M4.0

1/29/2025 2:41:34 PM

GENERAL NOTES:

A. REFER TO SHEET M0.0 FOR MECHANICAL SYMBOLS, ABBREVIATIONS, AND INSTALLATION NOTES.



NORTH

1 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"

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CHK	KDW

ENLARGED MECHANICAL ROOM PLAN

M5.0

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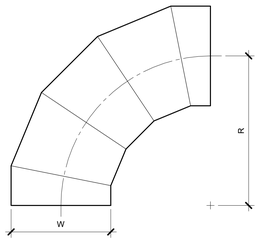
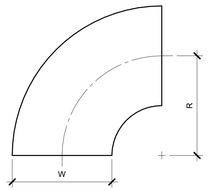
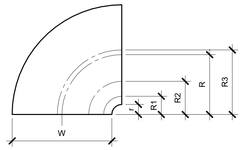


OVAL / ROUND
RADIUS ELBOW
SMOOTH OR 5 GORE (MINIMUM)
R/W = 1.5 (MINIMUM)

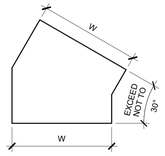


RECTANGULAR
RADIUS ELBOW
TYPE RE1
R/W = 1.0 (MINIMUM)
R/W < 1.0 SHALL BE TYPE RE3



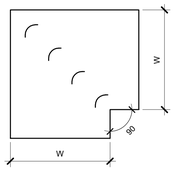
RECTANGULAR
RADIUS ELBOW WITH VANES
TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.

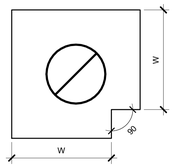


RECTANGULAR
MITERED ELBOW
TYPE RE6

USE ONLY AS PART OF OFFSETS AND TRANSITIONS PER FIGURE 4-7 TYPE 2 OR AS SHOWN ON DRAWINGS. OFFSETS ABOVE 30° SHALL BE TYPE RE1.

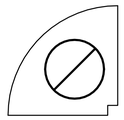


RECTANGULAR
MITERED ELBOW
WITH VANES
TYPE RE2



RECTANGULAR / OVAL / ROUND
MITERED ELBOW
WITHOUT VANES
TYPE RE4

NOT ALLOWED

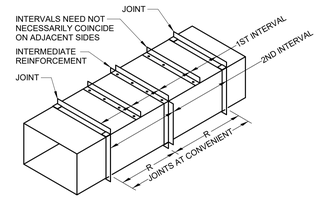


RECTANGULAR
RADIUS ELBOW WITH
SQUARE THROAT

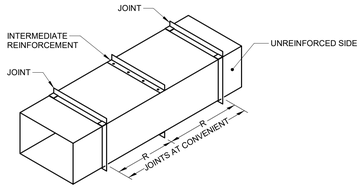
NOT ALLOWED

NOTES:
1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

1 DUCT - ELBOW CONSTRUCTION
NO SCALE



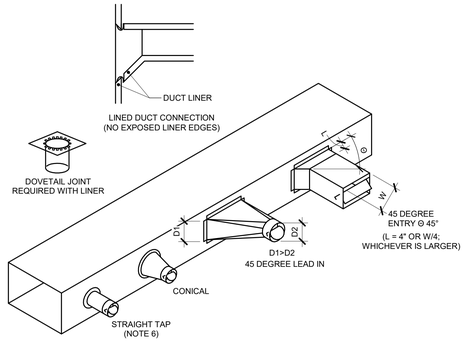
DUCT REINFORCED ON ALL SIDES



DUCT REINFORCED ON TWO SIDES

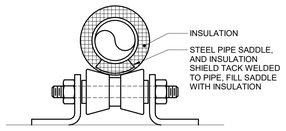
NOTES:
1. 'R' IS AN ALLOWABLE REINFORCEMENT INTERVAL.
2. TOP AND BOTTOM JOINTS MUST QUALIFY AS REINFORCEMENT
3. DUCT SIZES THAT ARE 19 INCHES AND OVER ARE 20 GAUGE OR LESS, WITH MORE THAN 10 SQUARE FEET OF UNBRACED PANEL AREA, SHALL BE CROSSBROKEN OR BEADED UNLESS THEY ARE LINED OR EXTERNALLY INSULATED. DUCTS THAT ARE OF HEAVIER GAUGE, SMALLER DIMENSIONS, AND SMALLER PANEL AREA AND THOSE THAT ARE LINED OR EXTERNALLY INSULATED ARE NOT REQUIRED TO HAVE CROSSBREAKING OR BEADING.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2 DUCT - TRANSVERSE REINFORCEMENT
NO SCALE

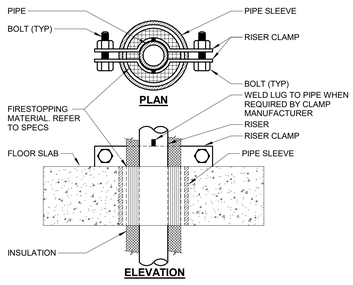


NOTES:
1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SEAL SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4" W.G. AND OVER.
4. REFER TO SPECIFICATIONS FOR VOLUME DAMPER REQUIREMENTS.
5. OPENINGS SHALL BE CUT ACCURATELY (SHAPE AND SIZE).
6. STRAIGHT TAPS ONLY ALLOWED DOWNSTREAM OF TERMINAL AIR BOX OR LOW PRESSURE (<2"W.C. PRESSURE CLASS)

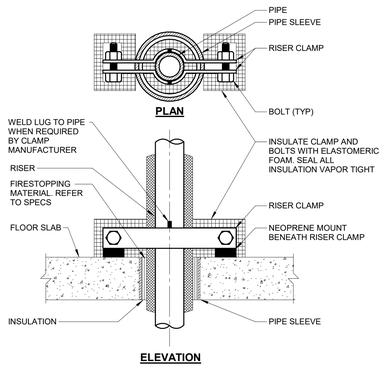
3 DUCT - BRANCH CONNECTIONS
NO SCALE



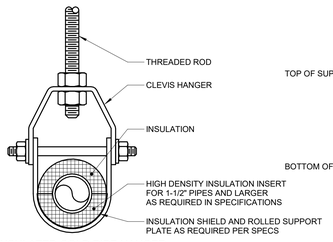
INSULATED HOT PIPE 4" AND LARGER



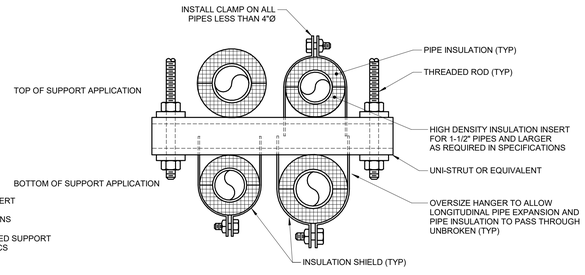
INSULATED HOT PIPE RISER SUPPORT



INSULATED COLD PIPE RISER SUPPORT



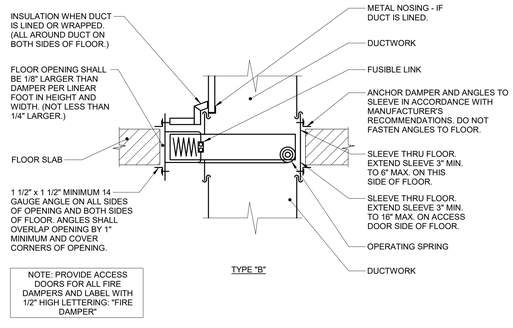
INSULATED COLD PIPE HANGER



TRAPEZE HANGER

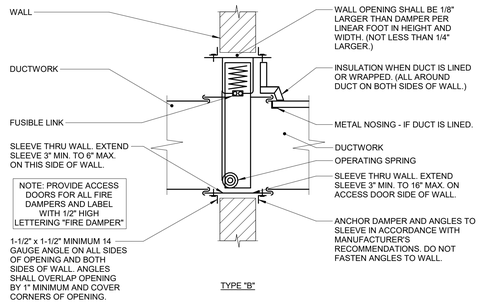
NOTES:
1. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

4 PIPE - HANGERS AND SUPPORTS
NO SCALE



TYPE "B"

5 FIRE DAMPER - DYNAMIC FLOOR CURTAIN TYPE B
NO SCALE



TYPE "B"

6 FIRE DAMPER - DYNAMIC WALL CURTAIN TYPE B
NO SCALE

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DWR	MAM
CHK	KDW

MECHANICAL DETAILS

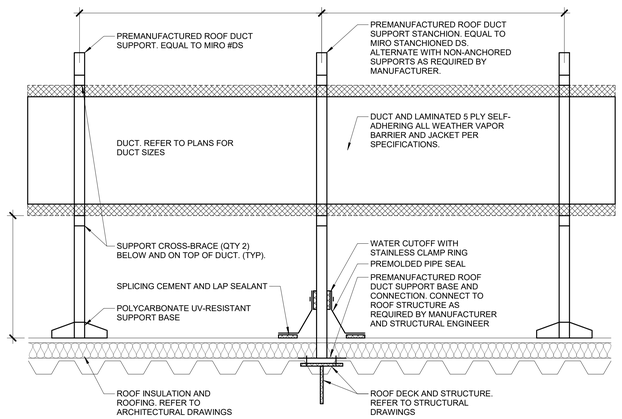
M6.0

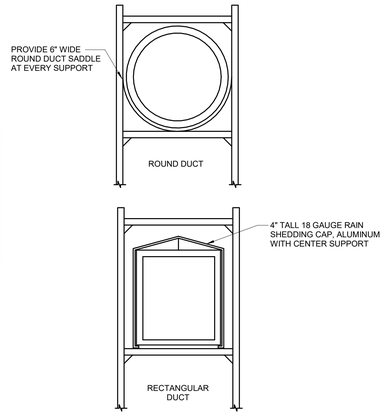
1/29/2025 2:41:39 PM

GENERAL INFORMATION:
1. ADOPTED BUILDING CODE: 2014 INDIANA BUILDING CODE
2. BUILDING OCCUPANCY/RISK CATEGORY: III

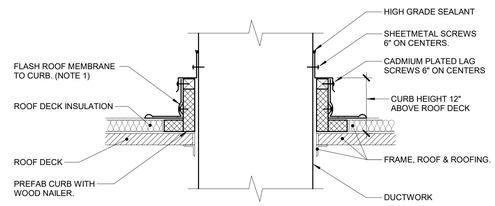
WIND DESIGN CRITERIA:
1. MEAN ROOF HEIGHT 32'-9"
2. BASIC WIND SPEED: 120 MPH
3. EXPOSURE CATEGORY: C

SEISMIC DESIGN CRITERIA (WHERE REQUIRED)
1. SOIL SITE CLASS: C (ASSUMED)
2. RESPONSE ACCELERATION (0.2S), SDS: 0.151 g
3. SEISMIC DESIGN CATEGORY: B
4. SEISMIC COMPONENT IMPORTANCE FACTOR IP: 1.0



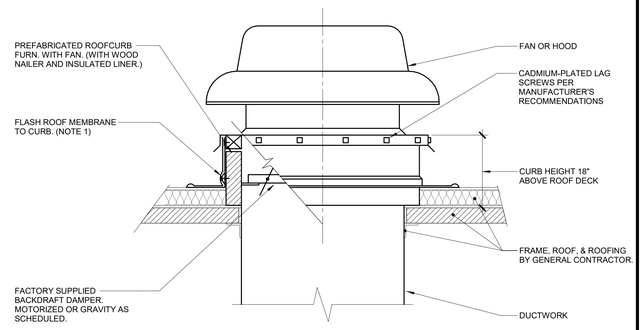


1 ROOF SUPPORT - EXPOSED DUCT (PREMANUFACTURED)
NO SCALE



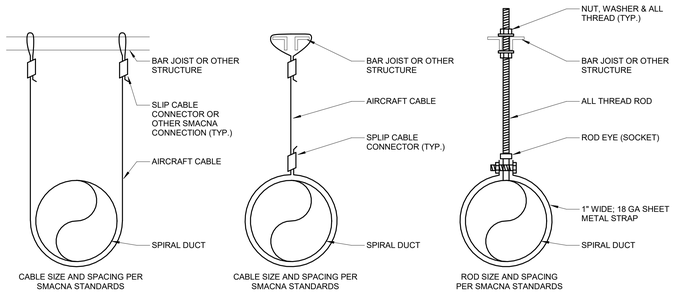
NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.

2 ROOF PENETRATION - STEEL DUCT RECTANGULAR
NO SCALE

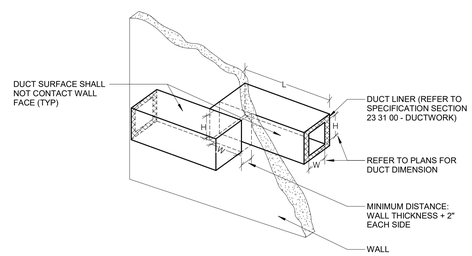


NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.

3 ROOF FAN/HOOD CURB
NO SCALE

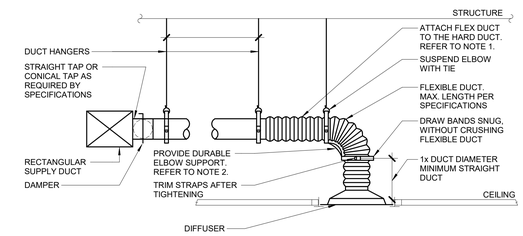


4 DUCT - HANGERS EXPOSED SPACES
NO SCALE



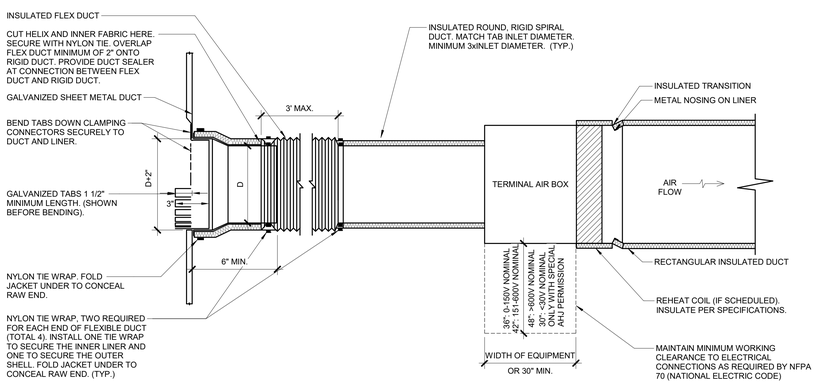
NOTES:
1. L = 3xW (OR H, WHICH EVER IS GREATER).

5 TRANSFER DUCT DETAIL (HORIZONTAL ELBOWS)
NO SCALE



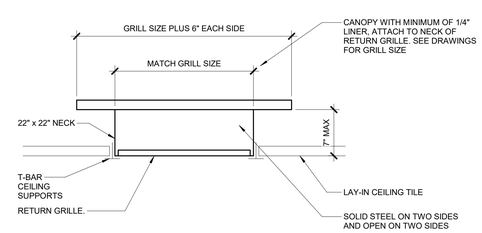
NOTES:
1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

6 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)
NO SCALE



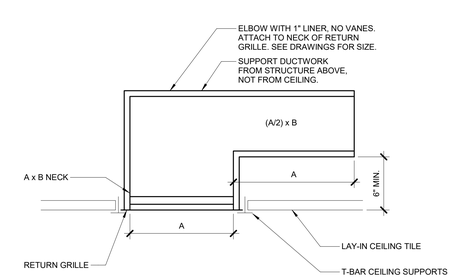
NOTES:
1. THIS DETAIL APPLIES ONLY TO TAPS OFF LINED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 3.0 DIAMETERS UPSTREAM.

7 TERMINAL AIR BOX - SINGLE DUCT - LINED
NO SCALE



NOTES:
1. BASIS OF DESIGN FOR RETURN AIR CANOPY IS PRICE MODEL RAC.

8 AIR TERMINAL - CEILING RETURN CANOPY
NO SCALE



9 AIR TERMINAL - CEILING RETURN SOUND BOOT
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REF. SCALE IN INCHES 0 1 2 3
PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

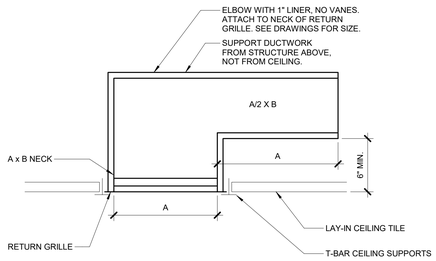
REVISIONS
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

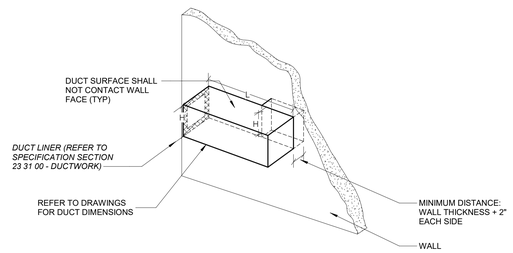
MECHANICAL DETAILS

M6.1

1/29/2025 2:41:41 PM

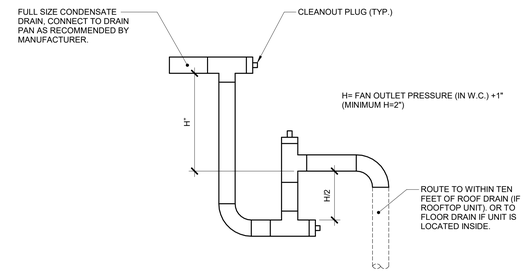


1 AIR TERMINAL - CEILING RETURN SOUND BOOT
NO SCALE



NOTES:
1. REFER TO DRAWINGS FOR DIMENSIONS OF TRANSFER DUCTS.

2 TRANSFER DUCT DETAIL (HORIZONTAL ELBOWS)
NO SCALE



3 CONDENSATE TRAP - DRAW THROUGH COIL
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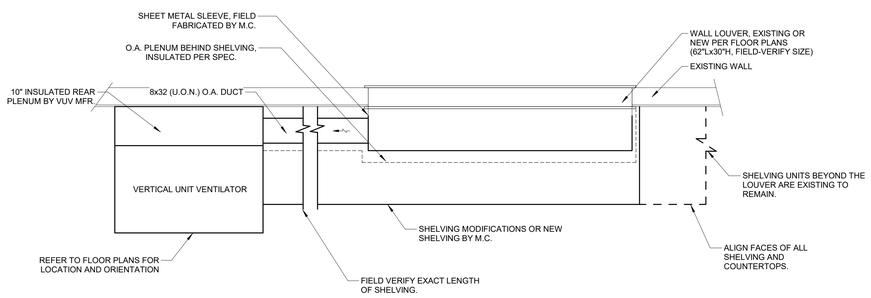
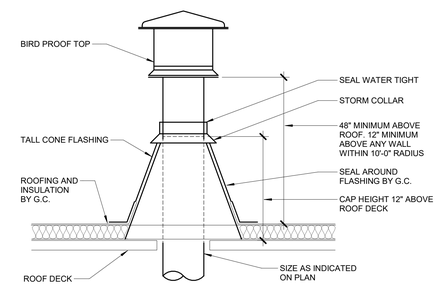
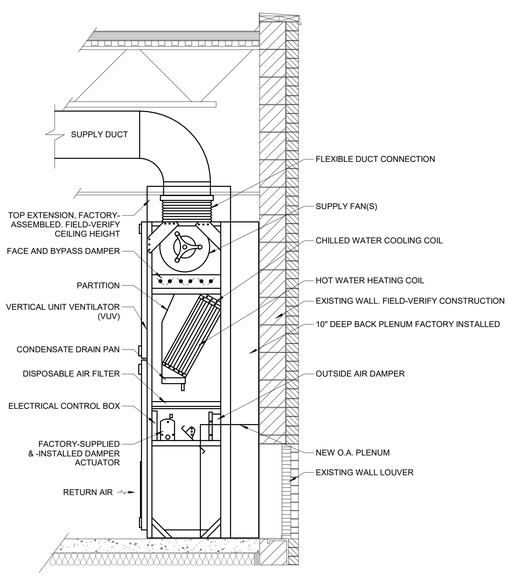
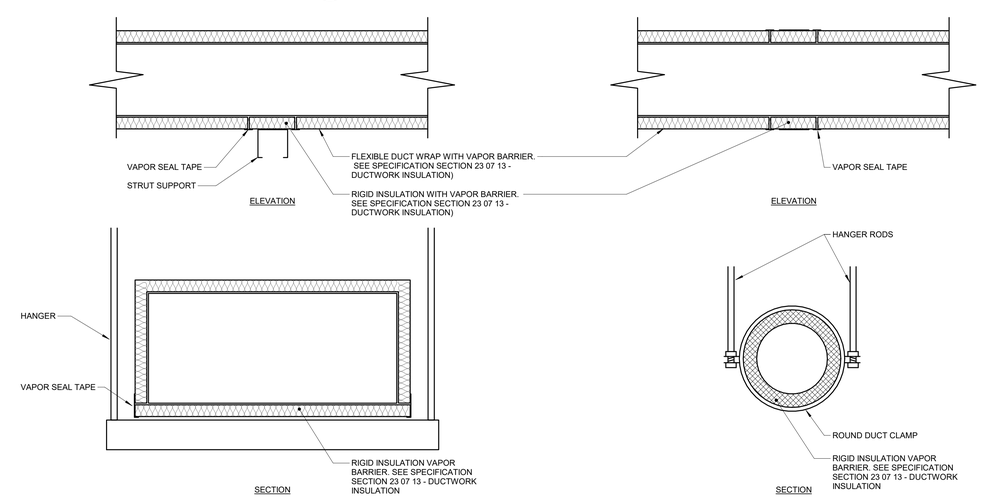




5 FLUE - THROUGH ROOF
NO SCALE



4 VERTICAL UNIT VENTILATOR DETAIL (OA LOUVER)
NO SCALE



NOTES:

1. DETAIL FOR USE WHERE DUCTS REQUIRE TRAPEZE OR DOUBLE ROD HANGERS (36" DIA. OR EQUIVALENT)

6 DUCT - HANGERS WRAPPED
NO SCALE

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PROJECT #240013005.00

STATE OF INDIANA PROFESSIONAL ENGINEER No. PE50910310
01.31.25

ROACHDALE ELEMENTARY SCHOOL HVAC IMPROVEMENTS - VOL. 2
NORTH PUTNAM COMMUNITY SCHOOLS
305 SOUTH INDIANA STREET
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

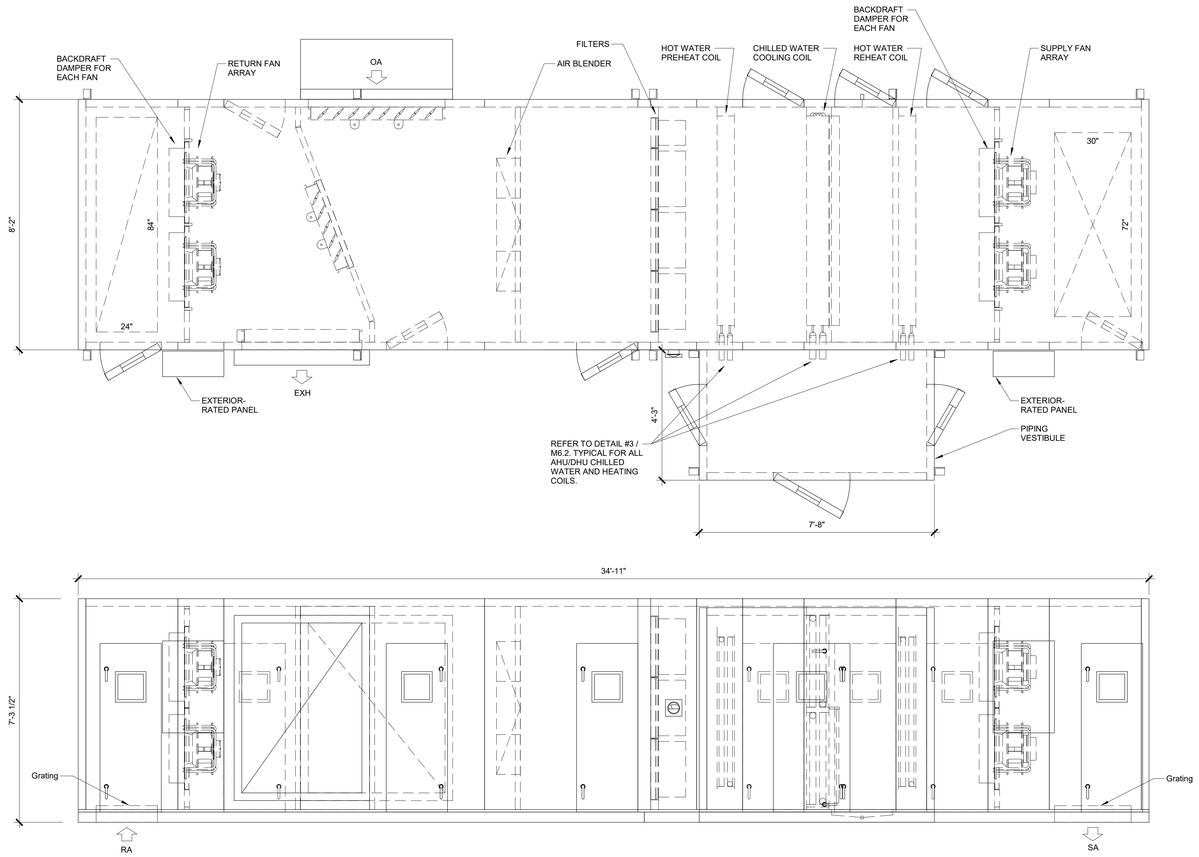
NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
NAK
CHK NHA

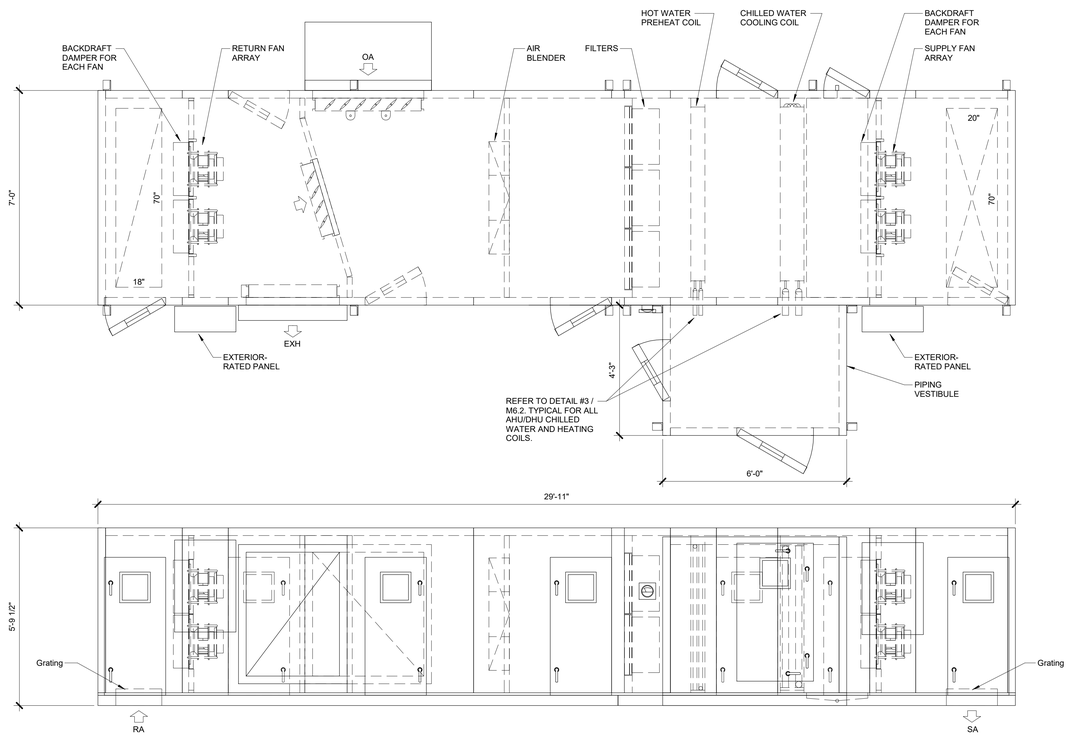
HVAC DETAILS

M6.2

1/30/2025 11:11:04 AM



1 AHU-1 DETAIL
1/2" = 1'-0"



2 AHU-2 DETAIL
1/2" = 1'-0"

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No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

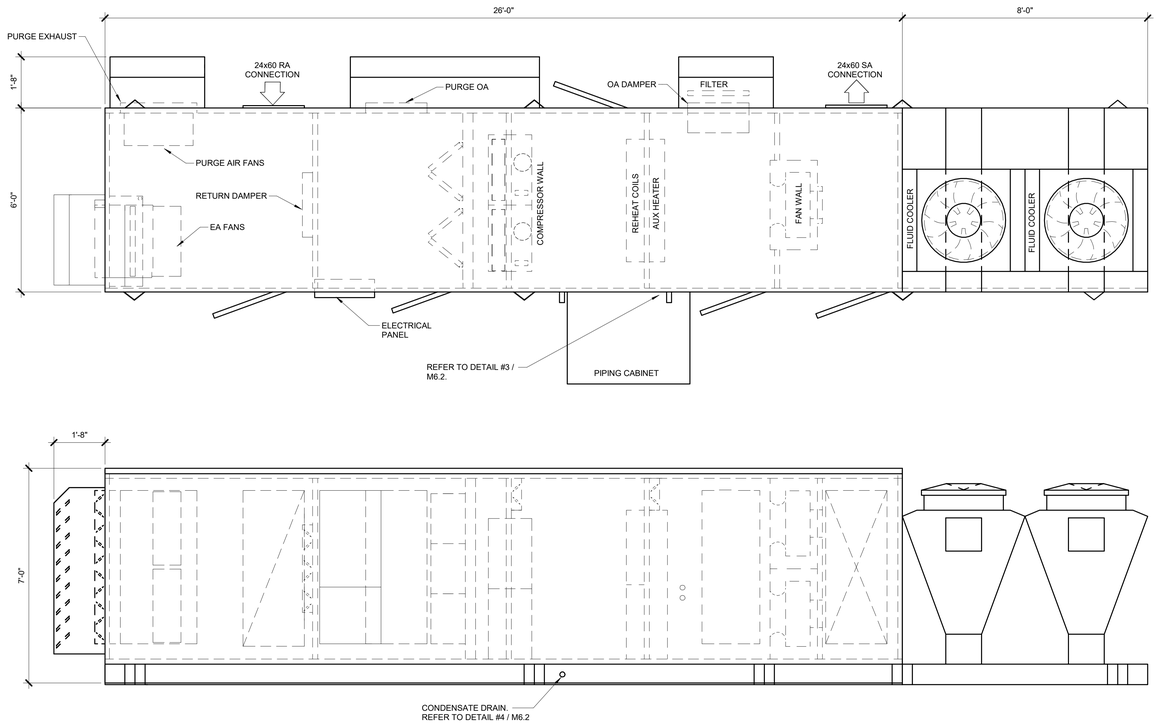
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAW
CHK	KDW

AHU DETAILS

M6.3

1/29/2025 2:41:44 PM



1 DHU-1 DETAIL

1/2" = 1'-0"

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WILLIAMS ARCHITECTS

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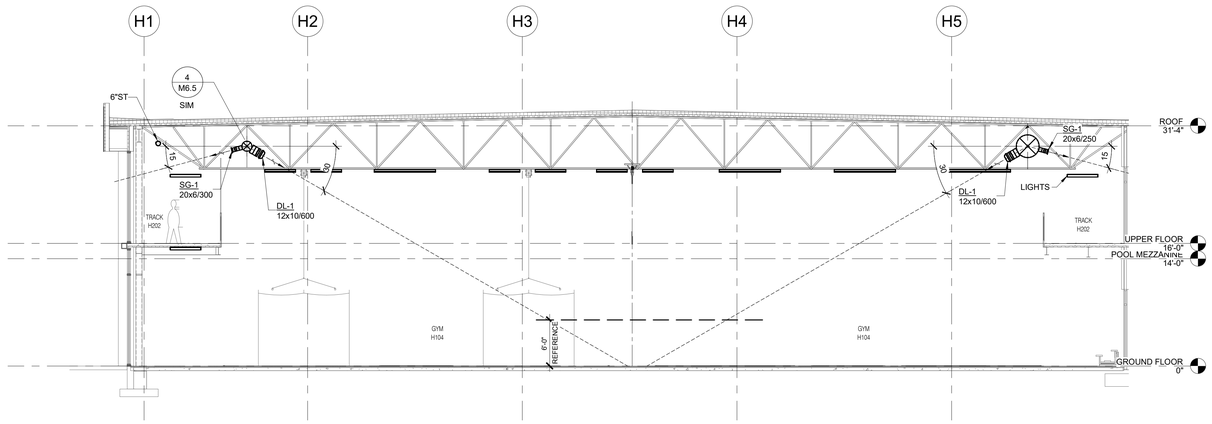
WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR MAW
CHK KDW

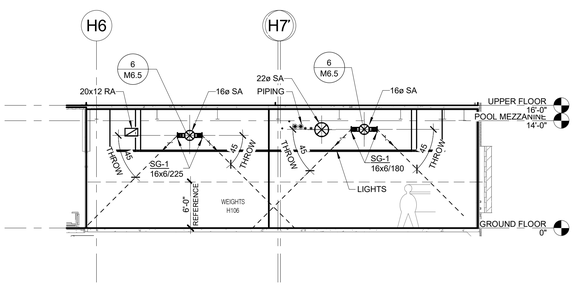
DHU DETAILS

M6.4

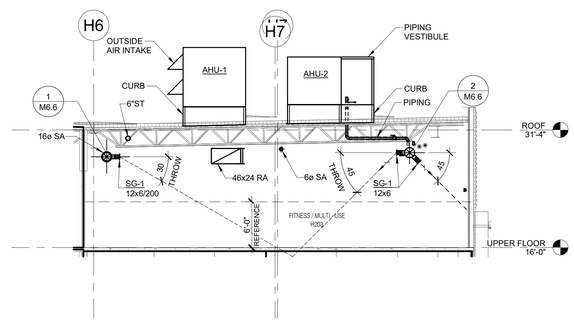
1/29/2025 2:41:46 PM



1 GYM SECTION
1/8" = 1'-0"



2 WEIGHTS SECTION
1/8" = 1'-0"



3 FITNESS/MULTI-USE SECTION
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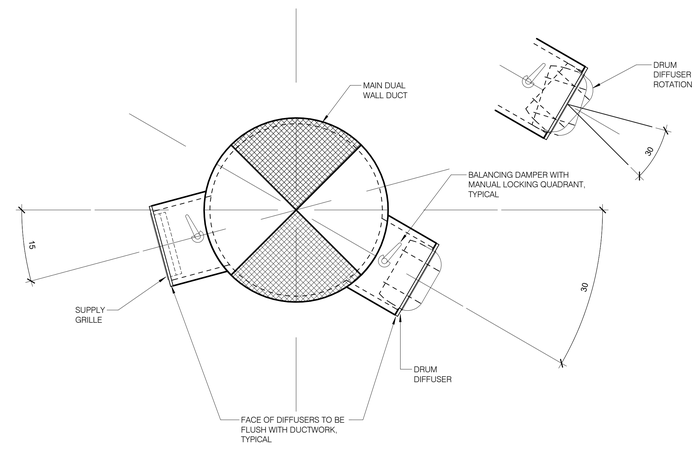
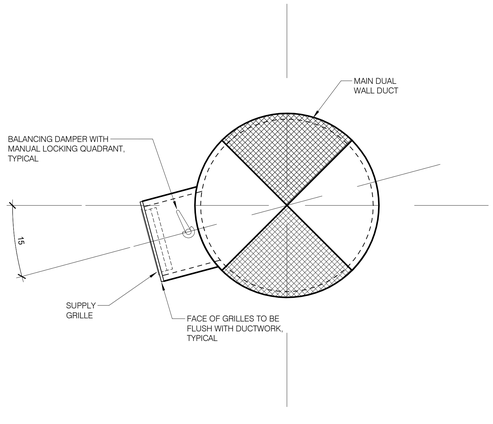
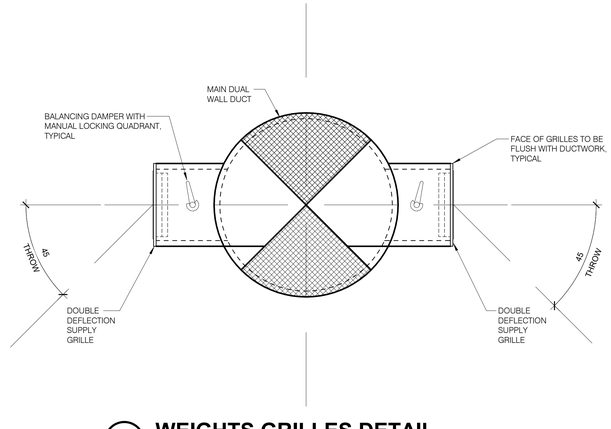


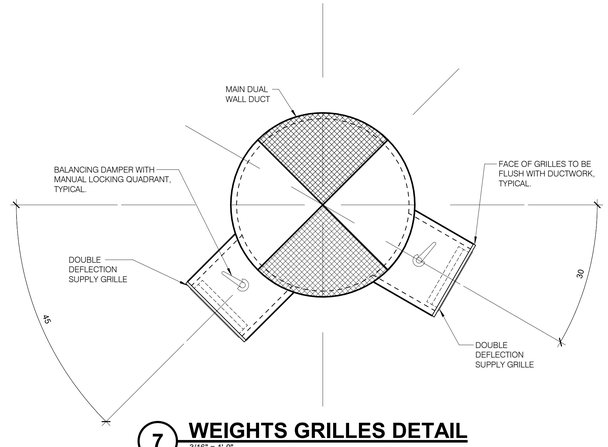
4 GYM GRILLE/DIFFUSER DETAIL
3/16" = 1'-0"



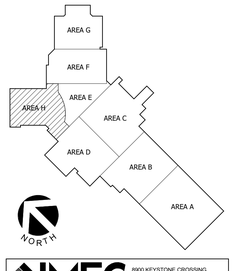
5 GYM GRILLE DETAIL
3/16" = 1'-0"



6 WEIGHTS GRILLES DETAIL
3/16" = 1'-0"



7 WEIGHTS GRILLES DETAIL
3/16" = 1'-0"



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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
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WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAW
CHK	KDW

MECHANICAL SECTIONS

M6.5

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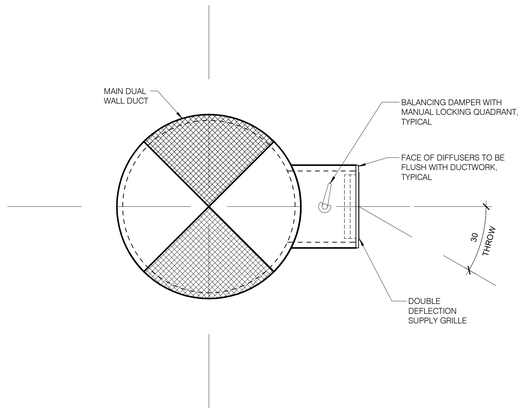
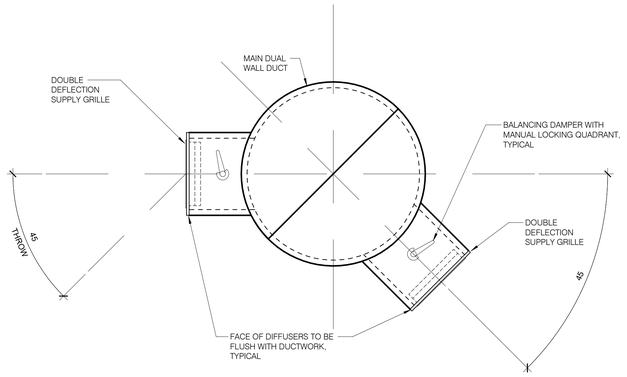
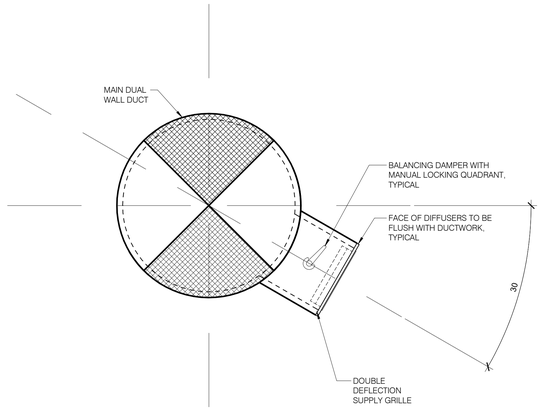


1 FITNESS/MULTI-USE GRILLE DETAIL
3/16" = 1'-0"



2 FITNESS/MULTI-USE GRILLES DETAIL
3/16" = 1'-0"



3 FITNESS/MULTI-USE GRILLE DETAIL
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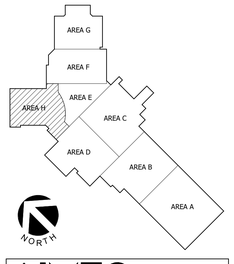

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WILLIAMS ARCHITECTS

REVISIONS

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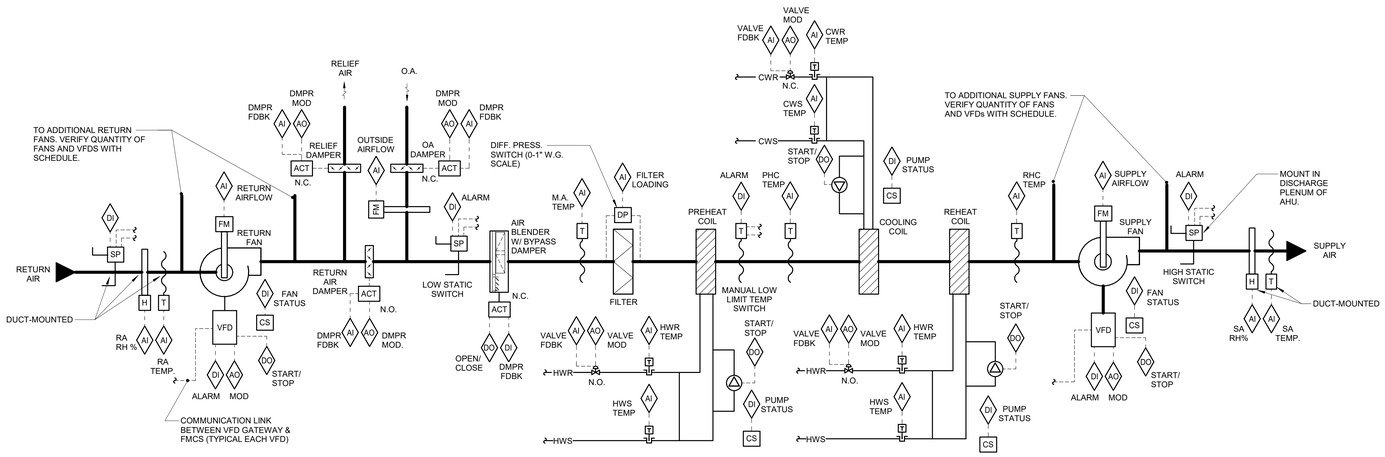
WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAW
CHK	KDW

MECHANICAL SECTIONS

M6.6

2/3/2025 3:45:30 PM



AHU REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 14-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES:

- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP [°F]
- GLOBAL OUTSIDE AIR DEWPOINT [°F]
- GLOBAL OUTSIDE AIR HUMIDITY [%RH]
- SUPPLY AIRFLOW [CFM]
- SUPPLY AIR TEMP (SAT) [°F]
- SUPPLY AIR RELATIVE HUMIDITY [%]
- SPACE AIR TEMP SETPOINT [°F]
- RETURN AIRFLOW [CFM]
- RETURN AIR TEMP (RAT) [°F]
- RETURN AIR RELATIVE HUMIDITY [%]
- OUTSIDE AIRFLOW [CFM]
- MIXED AIR TEMP [°F]
- PRE-FILTER LOADING [STATUS]
- PREHEAT COIL VALVE POSITION [% OPEN]
- PREHEAT COIL PUMP [ON/OFF]
- PREHEAT COIL DISCHARGE AIR TEMPERATURE [°F]
- CHILLED WATER COIL PUMP [ON/OFF]
- CHILLED WATER VALVE POSITION [% OPEN]
- REHEAT COIL VALVE POSITION [% OPEN]
- REHEAT COIL PUMP [ON/OFF]
- REHEAT COIL DISCHARGE AIR TEMPERATURE [°F]
- SUPPLY FAN VFD OUTPUT [% FULL SPEED]
- RETURN FAN VFD OUTPUT [% FULL SPEED]
- OUTSIDE AIR DAMPER POSITION [% OPEN]
- RETURN AIR DAMPER POSITION [% OPEN]
- RELIEF AIR DAMPER POSITION [% OPEN]

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN EITHER TABULAR OR GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.

TRENDING REQUIREMENTS:
DIGITAL POINTS: RECORD EVERY CHANGE OF ACTION WITH CORRESPONDING TIME STAMP FOR POINTS LISTED.
ANALOG POINTS: RECORD EVERY 15 MINUTES WITH CORRESPONDING TIME STAMP FOR POINTS LISTED.
THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED FOR A PERIOD OF ONE YEAR.

SEQUENCE OF OPERATION:

WHEN AHU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN.
- AFTER A 30 SECOND DELAY TO ALLOW FOR OPENING OF COMBINATION FIRE/SMOKE DAMPERS. SUPPLY FAN SHALL BE ENABLED TO RUN.
- WHEN THE SUPPLY FAN HAS STARTED THE RETURN FAN AND INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

SUPPLY FAN AND CONTROL VALVE OPERATION:
THE FMCS WILL MODULATE THE SUPPLY FAN, COOLING CONTROL VALVE, AND HEATING CONTROL VALVE TO ACHIEVE THE ROOM TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE SETPOINT.
- AT A FULL COOLING, THE SUPPLY FAN IS AT MAXIMUM COOLING CFM SPEED AND THE COOLING CONTROL VALVE SHALL BE OPEN TO MAINTAIN 55°F (ADJ) DISCHARGE AIR TEMPERATURE.
- AS THE ROOM AIR TEMPERATURE FALLS, THE SUPPLY FAN SHALL RAMP DOWN TO MAINTAIN ROOM TEMPERATURE SET POINT WHILE MAINTAINING A 55°F (ADJ) DISCHARGE AIR TEMPERATURE SET POINT.
- ON A FURTHER FALL IN ROOM TEMPERATURE, THE SUPPLY FAN WILL REMAIN AT MINIMUM SPEED AND THE COOLING CONTROL VALVE SHALL MODULATE TO MAINTAIN ROOM AIR TEMPERATURE SET POINT. WHEN THE SUPPLY FAN IS AT MINIMUM SPEED THE AHU DISCHARGE AIR TEMPERATURE SHALL NOT CONTROL THE COOLING CONTROL VALVE.
- ON A FURTHER REDUCTION IN ROOM TEMPERATURE, THE HEATING CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN ROOM AIR TEMPERATURE SET POINT. THE DISCHARGE AIR TEMPERATURE SHALL NOT RISE ABOVE 95°F AS THE HEATING CONTROL VALVE OPENS. THE SUPPLY FAN SHALL REMAIN AT MINIMUM HEATING CFM.
- ONCE THE HEATING CONTROL VALVE IS MAINTAINING 95°F DISCHARGE AIR, THE SUPPLY FAN SPEED SHALL RAMP UP TO MAXIMUM HEATING SPEED TO MAINTAIN ROOM AIR TEMPERATURE SET POINT.

WHEN IN ECONOMIZER MODE, FMCS SHALL NOT MODULATE COOLING CONTROL VALVE UNLESS RETURN AIR DAMPER IS 5% (ADJ.) OPEN AND RELIEF AIR DAMPER IS 95% (ADJ.) OPEN.

DISCHARGE AIR TEMPERATURE:
THE DISCHARGE SHALL BE BETWEEN 50°F (ADJ.) AND 95°F (ADJ.) TO MAINTAIN ROOM TEMPERATURE SETPOINT.

RETURN FAN OPERATION:
RETURN FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO RETURN FAN VFD AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE RETURN FAN AIRFLOW SCHEDULE.

AIR BLENDER BYPASS DAMPER:
AIR BLENDER BYPASS DAMPER SHALL BE OPEN WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 38°F (ADJ.) AND SHALL BE CLOSED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 35°F (ADJ).

PREHEAT COIL OPERATION:
PREHEAT COIL CONTROLS SHALL BE ENABLED WHEN OUTSIDE AIR TEMPERATURE DROPS BELOW 50°F (ADJ.). PREHEAT COIL CONTROLS SHALL BE DISABLED WHEN OUTSIDE AIR TEMPERATURE RISES ABOVE 54°F (ADJ.).

WHEN OUTSIDE AIR TEMPERATURE RISES ABOVE 38°F (ADJ.) FOR 10 MINUTES (ADJ.) HEATING COIL CIRCULATION PUMP SHALL OPERATE ONLY WHEN HEATING IS CALLED FOR (HEATING VALVE IS COMMANDED TO OPEN). WHEN OUTSIDE AIR TEMPERATURE DROPS BELOW 38°F (ADJ.) HEATING COIL CIRCULATION PUMP SHALL OPERATE CONTINUOUSLY. ONCE ENERGIZED, HEATING COIL CIRCULATION PUMP SHALL REMAIN IN OPERATION FOR MINIMUM 5 MINUTES (ADJ.) TO PREVENT SHORT CYCLING.

REHEAT COIL OPERATION:

VENTILATION AIR CONTROL:
WHENEVER THE AIR HANDLING UNIT IS OPERATING, THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN. THE RETURN AIR AND RELIEF AIR DAMPER SHALL MODULATE IN OPPOSITION TO MAINTAIN THE MINIMUM OUTSIDE AIR FLOW RATE, OR THE FLOW RATE REQUIRED TO SATISFY THE ECONOMIZER DISCHARGE AIR SEQUENCE.

ECONOMIZER OPERATION:
WHEN THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, THE FMCS SHALL ENABLE ECONOMIZER CONTROLS. WHEN OUTSIDE AIR ENTHALPY IS GREATER THAN THE RETURN AIR ENTHALPY FOR 10 MINUTES (ADJ.), THE FMCS SHALL DISABLE ECONOMIZER CONTROLS AND SHALL RETURN THE UNIT TO MINIMUM OUTSIDE AIR MODE. ONCE ECONOMIZER CONTROLS HAVE BEEN ENABLED OR DISABLED, THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ.) BEFORE BEING ALLOWED TO SWITCH BACK (TO PREVENT SHORT CYCLING).

IN ECONOMIZER MODE, THE FMCS SHALL MODULATE THE RETURN AND RELIEF DAMPERS AS REQUIRED TO MAINTAIN ROOM AIR TEMPERATURE SETPOINT.

ALARMS, INTERLOCKS, AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, AHU SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE AHU AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION:
- LOW STATIC PRESSURE SWITCH INDICATES RETURN DUCT PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS.
- LOW STATIC PRESSURE SWITCH INDICATES MIXED AIR PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS OF THE OUTSIDE AIR DUCTWORK.
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- SHOULD ANY ONE FOOT SECTION OF THE MANUAL RESET LOW LIMIT TEMPERATURE SWITCH #1 SENSE AIR TEMP <35°F (ADJ.). IF MULTIPLE FREEZE STATS ARE REQUIRED, LOCATE ADJACENT TO EACH OTHER TO BE RESET BY A COMMON LATCHING RELAY.

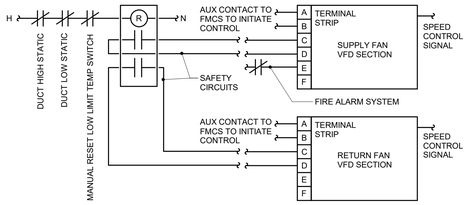
THE FOLLOWING CONDITIONS SHALL INDICATE WHICH DEVICE IS IN AN ALARM AT THE FMCS AND SHALL INDICATE WHICH DEVICE IS IN AN ALARM CONDITION, HOWEVER AHU SHALL CONTINUE TO OPERATE:
- PREHEAT COIL CIRCULATION PUMP IS COMMANDED TO RUN AND CURRENT RELAY INDICATES INSUFFICIENT CURRENT FLOW.
- COOLING COIL CIRCULATION PUMP IS COMMANDED TO RUN AND CURRENT RELAY INDICATES INSUFFICIENT CURRENT FLOW.
- REHEAT COIL CIRCULATION PUMP IS COMMANDED TO RUN AND CURRENT RELAY INDICATES INSUFFICIENT CURRENT FLOW.
- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR RETURN FAN VFD.
- DIFFERENTIAL PRESSURE TRANSDUCER ACROSS THE FILTER BANK EXCEEDS THE SCHEDULED VALUE (ADJ.).
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

IN THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE CURRENT SENSING RELAYS), RETURN AIR FAN SHALL BE DE-ENERGIZED.

WHENEVER AHU IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER, AND RELIEF AIR DAMPER SHALL FULLY CLOSE.
- RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING COIL HEATING CIRCULATION PUMP AND HEATING CONTROL VALVE SHALL REMAIN UNDER CONTROL OF ITS INPUT SENSOR.
- COOLING CONTROL VALVE SHALL FULLY CLOSE.
- SUPPLY FAN AND RETURN FAN VFDs SHALL BE DE-ENERGIZED.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OUTSIDE AIR TEMPERATURE AND HUMIDITY ON AHU GRAPHIC PAGE.

1 AIR HANDLING UNIT - SINGLE ZONE CHILLED AND HEATING WATER
NO SCALE



SUPPLY & RETURN FAN VFD CONTROL

CONNECT FIRE ALARM TO AHU START/STOP CIRCUIT SO FIRE ALARM CAN SHUT DOWN AND SO AHU CAN AUTOMATICALLY RESTART AFTER A FIRE ALARM TEST

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

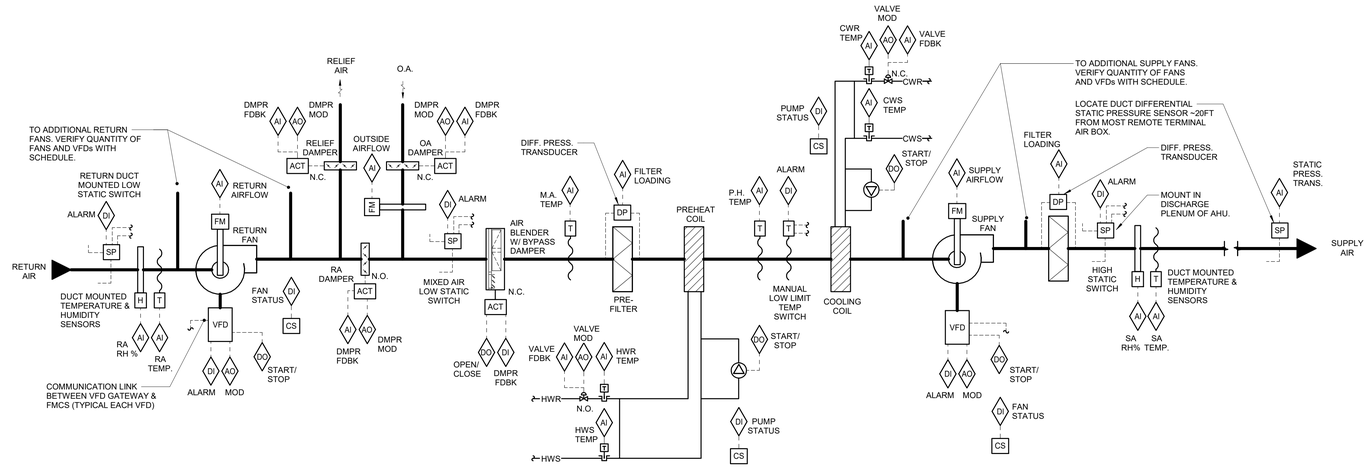
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

CONTROL DIAGRAMS

M7.0

1/29/2025 2:41:52 PM



AHU REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 100-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES:

- DATE
- TIME
- GLOBAL OUTSIDE AIR TEMP [°F]
- GLOBAL OUTSIDE AIR DEWPOINT [°F]
- GLOBAL OUTSIDE AIR HUMIDITY [%RH]
- SUPPLY AIRFLOW [CFM]
- SUPPLY AIR TEMP (SAT) [°F]
- SUPPLY AIR TEMP SETPOINT [°F]
- SUPPLY AIR RELATIVE HUMIDITY [%]
- SUPPLY AIR DEWPOINT [°F]
- SUPPLY AIR DEWPOINT SETPOINT [°F]
- RETURN AIRFLOW [CFM]
- RETURN AIR TEMP (RAT) [°F]
- RETURN AIR RELATIVE HUMIDITY [%]
- OUTSIDE AIRFLOW [CFM]
- BLENDER BYPASS DAMPER POSITION [% OPEN]
- MIXED AIR TEMP [°F]
- PREHEAT COIL DISCHARGE AIR TEMP [°F]
- PRE-FILTER LOADING [STATUS]
- FINAL FILTER LOADING [STATUS]
- HEATING WATER VALVE POSITION [% OPEN]
- HEATING COIL PUMP [ON/OFF]
- CHILLED WATER COIL PUMP [ON/OFF]
- CHILLED WATER VALVE POSITION [% OPEN]
- SUPPLY DUCT STATIC PRESSURE SETPOINT [INCHES W.G.]
- SUPPLY DUCT STATIC PRESSURE [INCHES W.G.]
- SUPPLY FAN VFD OUTPUT [% FULL SPEED]
- RETURN FAN VFD OUTPUT [% FULL SPEED]
- OUTSIDE AIR DAMPER POSITION [% OPEN]
- RETURN AIR DAMPER POSITION [% OPEN]
- RELIEF AIR DAMPER POSITION [% OPEN]

THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION.

TRENDING REQUIREMENTS:
DIGITAL POINTS: RECORD EVERY CHANGE OF ACTION WITH CORRESPONDING TIME STAMP FOR POINTS LISTED.
ANALOG POINTS: RECORD EVERY 15 MINUTES WITH CORRESPONDING TIME STAMP FOR POINTS LISTED.
THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED FOR A PERIOD OF ONE YEAR.

SEQUENCE OF OPERATION:

WHEN AHU/RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN.
- AFTER A 30 SECOND DELAY (ADJ.) TO ALLOW FOR OPENING OF SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS. SUPPLY FAN SHALL BE ENABLED TO RUN.
- WHEN THE SUPPLY FAN HAS STARTED THE RETURN FAN AND INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

SUPPLY FAN OPERATION:
FMCS SHALL MODULATE SIGNAL TO SUPPLY FAN VFD TO MAINTAIN DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

RETURN FAN OPERATION:
RETURN FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO RETURN FAN VFD AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE RETURN FAN AIRFLOW SCHEDULE.

AIR BLENDER BYPASS DAMPER:
AIR BLENDER BYPASS DAMPER SHALL BE OPEN WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 38°F (ADJ.) AND SHALL BE CLOSED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 35°F (ADJ)

STATIC PRESSURE RESET:
FMCS SHALL RESET SUPPLY DUCT STATIC PRESSURE SETPOINT BELOW THE MAXIMUM SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY TAB DAMPER 90% (ADJ.) OPEN. FMCS SHALL MONITOR ALL SUPPLY TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

DISCHARGE AIR TEMPERATURE SETPOINT:
DISCHARGE AIR SETPOINT SHALL BE 55°F (ADJ.).

DISCHARGE AIR TEMPERATURE RESET:
RESET DISCHARGE AIR TEMPERATURE BASED ON THE ZONE WITH THE GREATEST CALL FOR COOLING. RESET THE TEMPERATURE AS FOLLOWS:
- WHEN WORST CASE TAB IS LESS THAN 90% (ADJ.) OPEN FOR TEN MINUTES (ADJ.) THEN THE DISCHARGE AIR TEMPERATURE SHALL INCREASE BY 1°F (ADJ.). THIS SHALL CONTINUE UNTIL AHU MAXIMUM DISCHARGE AIR TEMPERATURE OF 60°F (ADJ.) IS ACHIEVED.
- WHEN WORST CASE TAB IS MORE THAN 90% OPEN FOR TEN MINUTES (ADJ.) THEN THE DISCHARGE AIR TEMPERATURE SHALL DROP BY 1°F (ADJ.).THIS SHALL CONTINUE UNTIL AHU MINIMUM DISCHARGE AIR TEMPERATURE OF 55°F (ADJ.) IS ACHIEVED.
- THE MAXIMUM ALLOWABLE RETURN AIR HUMIDITY SETPOINT SHALL BE 60% (ADJ.). IF RETURN AIR HUMIDITY IS GREATER THAN SETPOINT, RESET DISCHARGE AIR TEMPERATURE TO 55°F UNTIL RETURN AIR HUMIDITY IS 5% LESS THAN MAXIMUM SETPOINT FOR 10 MINUTES (ADJ.).

STATIC PRESSURE AND DISCHARGE AIR TEMPERATURE RESET PRIORITY:
RESET THE DISCHARGE AIR TEMPERATURE PRIOR TO RESETTING THE DUCTWORK STATIC PRESSURE SETPOINT. ONCE THE MAXIMUM SUPPLY TEMPERATURE IS REACHED THEN THE SYSTEM SHALL ENABLE THE STATIC PRESSURE RESET

DEMAND CONTROL VENTILATION:
WHENEVER THE AIR HANDLING UNIT IS IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN. THE RETURN AIR AND RELIEF AIR DAMPER SHALL MODULATE IN OPPOSITION TO MAINTAIN THE LARGER OF THE MINIMUM OUTSIDE AIR FLOW RATE AS MEASURED AT THE OUTSIDE AIRFLOW MEASURING STATION., AND THE FLOW RATE NEEDED TO SATISFY THE ECONOMIZER DISCHARGE AIR SEQUENCE. THE MINIMUM OUTSIDE AIR FLOW RATE SHALL BE RESET AS FOLLOWS:
- DURING OCCUPIED MODE, THE MINIMUM OA FLOW RATE SHALL NOT FALL BELOW THE AMOUNT LISTED IN THE AHU SCHEDULE.
- IF ANY DCV ZONE HAS A CO2 CONCENTRATION ABOVE ITS SCHEDULED SETPOINT AND THAT ZONE'S TAB MINIMUM FLOW IS RESET TO ITS MAXIMUM FLOW RATE, THE MINIMUM OA SETPOINT SHALL INCREASE UNTIL THAT ZONE CO2 SETPOINT IS SATISFIED OR UNTIL THE DESIGN OCCUPIED OUTSIDE AIR FLOW ON THE AHU SCHEDULE IS REACHED.
- IF THE CRITICAL ZONE'S CO2 CONCENTRATION DROPS BELOW THE SCHEDULED CO2 SETPOINT, THE MINIMUM OUTSIDE AIR RATE SHALL BE RESET LOWER UNTIL THE CO2 CONCENTRATION REACHES ITS SETPOINT OR UNTIL THE AHU OUTSIDE AIR FLOW RATE REACHES THE MINIMUM OA RATE IN AHU SCHEDULE.

COOLING COIL OPERATION:
WHEN IN MINIMUM OUTSIDE AIR MODE, FMCS SHALL MODULATE CHILLED WATER CONTROL VALVE AS REQUIRED TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

WHEN IN ECONOMIZER MODE, FMCS SHALL NOT MODULATE COOLING CONTROL VALVE UNLESS RETURN AIR DAMPER IS 5% (ADJ.) OPEN AND RELIEF AIR DAMPER IS 95% (ADJ.) OPEN.

PREHEAT COIL OPERATION:
PREHEAT COIL CONTROLS SHALL BE ENABLED WHEN OUTSIDE AIR TEMP DROPS BELOW 50°F (ADJ.). PREHEAT COIL CONTROLS SHALL BE DISABLED WHEN OUTSIDE AIR TEMP RISES ABOVE 54°F (ADJ.).

WHEN OUTSIDE AIR TEMPERATURE RISES ABOVE 38°F (ADJ.) FOR 10 MINUTES (ADJ.) HEATING WATER COIL CIRCULATION PUMP SHALL OPERATE ONLY WHEN HEATING IS CALLED FOR (HEATING WATER VALVE IS COMMANDED TO OPEN). WHEN OUTSIDE AIR TEMP DROPS BELOW 38°F (ADJ.) HEATING WATER COIL CIRCULATION PUMP SHALL OPERATE CONTINUOUSLY. ONCE ENERGIZED, HEATING WATER COIL CIRCULATION PUMP SHALL REMAIN IN OPERATION FOR MINIMUM 5 MINUTES (ADJ.) TO PREVENT SHORT CYCLING.

FMCS SHALL MODULATE HEATING WATER CONTROL VALVE AS REQUIRED TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT.

ECONOMIZER OPERATION:
WHEN THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, THE FMCS SHALL ENABLE ECONOMIZER CONTROLS. WHEN OUTSIDE AIR ENTHALPY IS GREATER THAN THE RETURN AIR ENTHALPY FOR 10 MINUTES (ADJ.), THE FMCS SHALL DISABLE ECONOMIZER CONTROLS AND SHALL RETURN THE UNIT TO MINIMUM OUTSIDE AIR MODE. ONCE ECONOMIZER CONTROLS HAVE BEEN ENABLED OR DISABLED, THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ.) BEFORE BEING ALLOWED TO SWITCH BACK (TO PREVENT SHORT CYCLING).

IN ECONOMIZER MODE, THE FMCS SHALL MODULATE THE RETURN AND RELIEF DAMPERS AS REQUIRED TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT. .

ALARMS, INTERLOCKS, AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, AHU SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE AHU AND SHALL INDICATE WHICH DEVICE IS IN AN ALARM CONDITION AT THE FMCS WORKSTATION:
- LOW STATIC PRESSURE SWITCH INDICATES RETURN DUCT PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS.
- LOW STATIC PRESSURE SWITCH INDICATES MIXED AIR PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS OF THE OUTSIDE AIR DUCTWORK.
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- SHOULD ANY ONE FOOT SECTION OF THE MANUAL RESET LOW LIMIT TEMPERATURE SWITCH SENSE AIR TEMP <35°F (ADJ.). IF MULTIPLE FREEZE STATS ARE REQUIRED, LOCATE ADJACENT TO EACH OTHER AND RESET BY A COMMON LATCHING RELAY

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS AND SHALL INDICATE WHICH DEVICE IS IN AN ALARM CONDITION, HOWEVER AHU SHALL CONTINUE TO OPERATE:
- HEATING COIL CIRCULATION PUMP IS COMMANDED TO RUN AND CURRENT RELAY INDICATES INSUFFICIENT CURRENT FLOW.
- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR RETURN FAN VFD.
- DIFFERENTIAL PRESSURE TRANSDUCER ACROSS PRE-FILTER BANK EXCEEDS SCHEDULED VALUE (ADJ.).
- DIFFERENTIAL PRESSURE TRANSDUCER ACROSS FINAL FILTER BANK EXCEEDS SCHEDULED VALUE (ADJ.).
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT.

IN THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE CURRENT SENSING RELAYS) RETURN AIR FAN SHALL BE DE-ENERGIZED.

WHENEVER AHU IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL FULLY CLOSE.
- RETURN AIR DAMPER SHALL FULLY OPEN.
- PREHEAT COIL HEATING WATER CIRCULATION PUMP AND HEATING WATER CONTROL VALVE SHALL REMAIN UNDER CONTROL OF ITS INPUT SENSOR.
- ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL FULLY CLOSE.
- CHILLED WATER CONTROL VALVE SHALL FULLY CLOSE.
- SUPPLY FAN AND RETURN FAN VFDs SHALL BE DE-ENERGIZED.
- INTERLOCKED EXHAUST FANS SHALL BE DE-ENERGIZED.

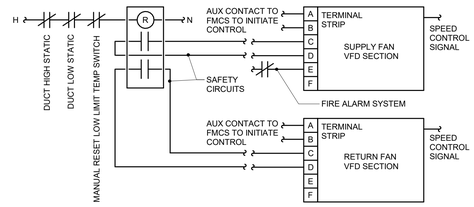
UNOCCUPIED MODE:
PROVIDE TIME OF DAY SCHEDULE TO ALLOW AHU TO ENTER UNOCCUPIED MODE PER SCHEDULE. COORDINATE SCHEDULE WITH OWNER.

- THE SUPPLY AND RETURN FANS SHALL CONTINUE RUNNING. WHEN USING CONSTANT VOLUME OFFSET FOR RETURN AIR FAN CONTROL, THE OFFSET SHALL GO TO ZERO AND THE SUPPLY FAN SHALL BE LIMITED TO THE MAXIMUM RETURN FAN AIRFLOW.
- THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN. ECONOMIZER CYCLE SHALL TAKE PRECEDENCE OVER DAMPER POSITION.
- ALL SPACE TEMPERATURES SHALL BE ALLOWED TO VARY +/- 10°F (ADJ.) FROM OCCUPIED SETPOINT.

HEATING OPTIMUM START-UP:
- THIS CYCLE SHALL OVERRIDE THE UNOCCUPIED CYCLE. IF THE SYSTEM WAS OPERATING AS A RESULT OF THE UNOCCUPIED CYCLE, THE SYSTEM SHALL CONTINUE TO OPERATE. THE DDC SYSTEM SHALL DETERMINE THE MINIMUM RUNTIME TO WARM THE SPACES TO THEIR SETPOINT WHEN THE COMPUTED START TIME IS REACHED. THE AIR HANDLING UNIT DISCHARGE AIR TEMPERATURE SHALL BE MAINTAINED AT A SETPOINT OF 85°F (ADJ.). THE SYSTEM SHALL CONTINUE TO OPERATE IN THIS MODE UNTIL ALL TEMPERATURES EXCEED A SETPOINT OF 68°F (ADJ.). AT THAT TIME, THE DDC SYSTEM SHALL SWITCH TO OCCUPIED CONTROL.

COOLING OPTIMUM START-UP:
- THIS CYCLE SHALL OVERRIDE THE UNOCCUPIED CYCLE. IF THE SYSTEM WAS OPERATING AS A RESULT OF THE UNOCCUPIED CYCLE, THE SYSTEM SHALL CONTINUE TO OPERATE. THE DDC SYSTEM SHALL DETERMINE THE MINIMUM RUNTIME TO COOL THE SPACES TO THEIR SETPOINT WHEN THE COMPUTED START TIME IS REACHED. THE AIR HANDLING UNIT DISCHARGE AIR TEMPERATURE SHALL BE MAINTAINED AT A SETPOINT OF 55°F (ADJ.). THE SYSTEM SHALL CONTINUE TO OPERATE IN THIS MODE UNTIL ALL TEMPERATURES ARE LESS THAN A SETPOINT OF 75°F (ADJ.). AT THAT TIME, THE DDC SYSTEM SHALL SWITCH TO OCCUPIED CONTROL.

GRAPHICAL DISPLAY:
DISPLAY THE GLOBAL OUTSIDE AIR TEMPERATURE AND HUMIDITY ON AHU GRAPHIC PAGE.



SUPPLY & RETURN FAN VFD CONTROL

CONNECT FIRE ALARM TO AHU START/STOP CIRCUIT SO FIRE ALARM CAN SHUT DOWN AND SO AHU CAN AUTOMATICALLY RESTART AFTER A FIRE ALARM TEST

1 **AIR HANDLING UNIT - VAV CHILLED AND HEATING WATER WITH DEMAND CONTROL VENTILATION AND AIRFLOW MEASURING**
NO SCALE

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8900 KEYSTONE CROSSING
SUITE 210
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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

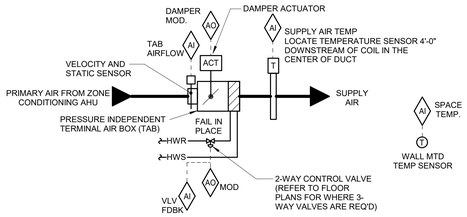
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

CONTROL DIAGRAMS

M7.1

1/29/2025 2:41:53 PM

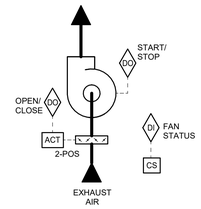


SEQUENCE OF OPERATION:
- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER AND TAB HW REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE OF 72°F (ADJ.) WITH 5°F (ADJ.) DEAD BAND BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR. SEE DRAWINGS FOR TEMPERATURE SENSOR REQUIREMENTS. SPACES WITH ADJUSTABLE THERMOSTATS WILL ALLOW A +/- 3°F (ADJ.) OFFSET FROM THE DDC SETPOINT.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION PER THE TAB SCHEDULE. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 20°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL TAB AIRFLOW REACHES ITS MAXIMUM HEATING SETTING. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.
- THE FMCS SHALL UTILIZE OUTPUT FROM ALL TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE.

NIGHT SETBACK CONTROL:
- TAB NIGHT SETBACK SHALL BE INITIATED VIA THE FMCS BASED ON A TIME SCHEDULE SET BY THE OWNER.
- AT THE START OF OCCUPIED MODE, FMCS SHALL ESTABLISH THE MIN. CFM SETPOINTS OF ALL TAB TO BE EQUAL TO THE MIN. CFM VALUE SCHEDULED IN THE TAB SCHEDULE AND SHALL ESTABLISH THE ROOM TEMP SETPOINT IN ACCORDANCE WITH THE TAB SEQUENCES OF OPERATION.
- AT THE START OF UNOCCUPIED MODE, FMCS SHALL ESTABLISH THE MIN. CFM SETPOINT OF ALL TAB TO BE EQUAL TO ZERO (0) CFM AND SHALL ESTABLISH THE ROOM TEMP SETPOINTS OF: COOLING SETPOINT = 85°F (ADJ.) HEATING SETPOINT = 55°F (ADJ.)
- PROVIDE NIGHT SETBACK OVERRIDE BUTTON WHERE INDICATED. WHEN BUTTON IS DEPRESSED, FMCS SHALL SWITCH ALL TAB INTO OCCUPIED MODE FOR A 2 HOUR (ADJ.) TIME PERIOD. AT THE END OF THE TIME PERIOD, FMCS SHALL SWITCH ALL TAB BACK TO UNOCCUPIED MODE.

ALARMS, INTERLOCKS & SAFETIES:
SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

1 TAB CONTROL W/ HOT WATER REHEAT
NO SCALE

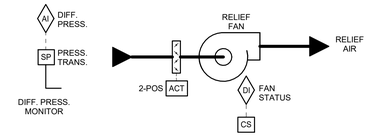


SEQUENCE OF OPERATION:
EXHAUST FAN SHALL BE INTERLOCKED TO RUN CONTINUOUSLY WHEN RESPECTIVE AHU IS OPERATING.

2-POSITION DAMPER SHALL FULLY OPEN WHEN FAN IS ENERGIZED. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FMCS COMMANDS THE EXHAUST FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

2 FAN - INTERLOCK WITH AHU
NO SCALE



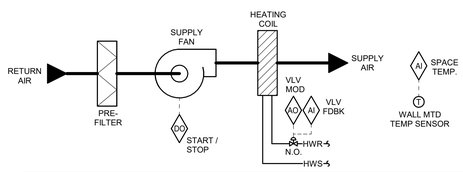
EXHAUST FAN OPERATION:
THE FMCS SHALL MODULATE THE FAN SPEED TO MAINTAIN +0.02" W.G. (ADJ.) BUILDING STATIC PRESSURE.

THE FMCS SHALL DISPLAY THE CURRENT STATIC PRESSURE OF THE BUILDING.

WHEN FAN IS ENERGIZED, 2-POSITION DAMPER SHALL FULLY OPEN. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FMCS COMMANDS THE EXHAUST FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

3 FAN - PRESSURE CONTROL
NO SCALE



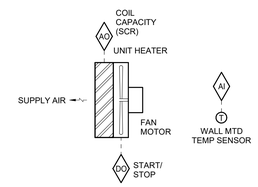
SEQUENCE OF OPERATION:
THE CABINET HEATER SHALL BE FURNISHED WITH A UNIT MOUNTED FAN SPEED SELECTOR SWITCH (OFF-HIGH-MED-LOW). THE UNIT SHALL MAINTAIN A SPACE TEMPERATURE OF NO MORE THAN 60°F.

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 45°F, THE FMCS SHALL MODULATE THE CONTROL VALVE TO MAINTAIN SETPOINT. FMCS SHALL ENABLE THE FAN WHEN THE CONTROL VALVE IS OPEN AND DISABLE THE FAN WHEN THE CONTROL VALVE IS CLOSED.

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 45°F, THE FMCS SHALL MODULATE THE CONTROL VALVE TO MAINTAIN SETPOINT AND THE FAN SHALL RUN CONTINUOUSLY.

ALARMS, INTERLOCKS & SAFETIES:
SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

4 CABINET HEATER CONTROL - HYDRONIC
NO SCALE



SEQUENCE OF OPERATION:

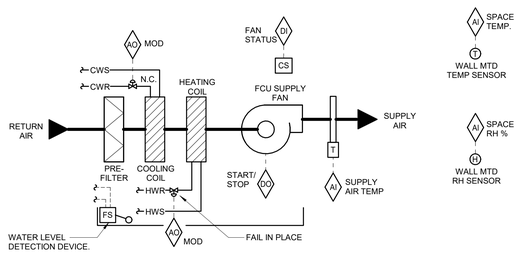
WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F (ADJ.), TEMPERATURE SENSOR SHALL ENERGIZE FAN AND MODULATE THE ELECTRIC COIL TO MAINTAIN A SPACE TEMPERATURE OF 70° F (ADJ.). WHEN SPACE TEMPERATURE IS SATISFIED THE FAN SHALL TURN OFF.

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE ELECTRIC COIL TO MAINTAIN A SPACE TEMPERATURE OF 70°F (ADJ.) AND THE UNIT FAN SHALL RUN CONTINUOUSLY.

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

5 UNIT HEATER CONTROL - ELECTRIC
NO SCALE



SEQUENCE OF OPERATION:
SUPPLY FAN OPERATION SHALL BE CONTROLLED BY THE FMCS THROUGH A CONTACTOR. THE UNIT SHALL MAINTAIN A ROOM AIR TEMPERATURE SETPOINT.

WHENEVER THE ROOM AIR TEMPERATURE IS 2°F (ADJ.) ABOVE THE SETPOINT, THE FOLLOWING SHALL OCCUR:
- THE HEATING COIL CONTROL VALVE SHALL BE CLOSED.
- THE CHILLED WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT.

WHENEVER THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT, THE FOLLOWING SHALL OCCUR:
- THE CHILLED WATER CONTROL VALVE SHALL BE CLOSED.
- THE HEATING WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT.

HUMIDITY SENSOR WITHIN SPACE SHALL OVERRIDE HEATING COIL CONTROL VALVE INCREMENTALLY OPEN AT (5%) STEPS COMPARED TO NORMAL SPACE TEMPERATURE CONTROL IF THE SPACE HUMIDITY SENSOR EXCEEDS 60% RH (ADJ.). IF SPACE HUMIDITY SENSOR IS BELOW 55% RH (ADJ.) DEHUMIDIFICATION SEQUENCE SHALL BE DISABLED.

IF ROOM AIR TEMPERATURE IS MAINTAINED AND BOTH THE HEATING AND COOLING COIL VALVES ARE CLOSED, THE SUPPLY FAN SHALL BE DE-ENERGIZED. IF EITHER OF THE COIL CONTROL VALVES OPEN, THE SUPPLY FAN SHALL BE ENERGIZED.

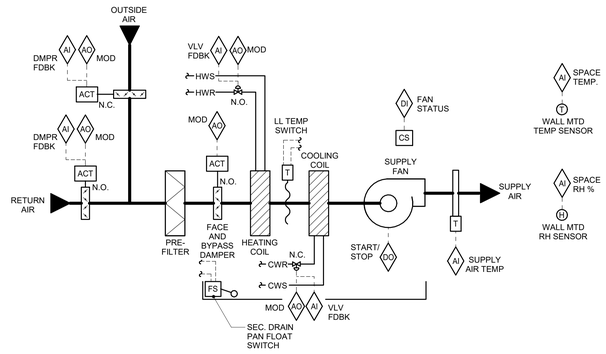
ALARMS, INTERLOCKS & SAFETIES:
WHEN THE FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, FCU SHALL SHUTDOWN.

A WATER LEVEL DETECTION DEVICE SHALL CLOSE THE CHILLED WATER VALVE AND PREVENT SUPPLY FAN OPERATION UPON DETECTION OF HIGH WATER LEVEL AND SHALL INDICATE AN ALARM TO THE OPERATOR WORKSTATION.

FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IF THE FMCS COMMANDS ANY SUPPLY FAN TO OPERATE AND THE FAN CURRENT RELAY DETECTS INSUFFICIENT CURRENT FLOW.

WHENEVER FCU IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- HEATING AND CHILLED WATER CONTROL VALVE SHALL CLOSE.
- SUPPLY FAN SHALL BE DE-ENERGIZED.

6 FAN COIL UNIT CONTROL WITH DEHUMIDIFICATION
NO SCALE



SUPPLY FAN CONTROL:
- UNIT VENTILATOR OPERATION SHALL BE SCHEDULED AT THE FMCS OPERATOR WORKSTATION.
- WHEN THE UNIT VENTILATOR IS INDEXED TO RUN, THE SUPPLY FAN SHALL BE ENABLED TO RUN.
- THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES.

SPACE TEMPERATURE CONTROL:
- IN COOLING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 70°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 2°F (ADJ.) ABOVE THE SETPOINT, THE COOLING COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT AND THE BYPASS DAMPER SHALL BE OPEN TO THE COIL.
- IN COOLING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS ABOVE 70°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 2°F (ADJ.) ABOVE THE SETPOINT, THE COOLING COIL CONTROL VALVE SHALL BE FULLY OPEN AND THE BYPASS DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
- WHEN IN ECONOMIZER MODE, FMCS SHALL NOT MODULATE CONTROL VALVE OR BYPASS DAMPER UNLESS O.A. DAMPER IS 100% (ADJ.) OPEN.
- IN HEATING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS ABOVE 40°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT, THE HEATING WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT AND THE BYPASS DAMPER SHALL BE OPEN TO THE COIL.
- IN HEATING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 40°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT, THE HEATING WATER CONTROL VALVE SHALL BE FULLY OPEN AND THE BYPASS DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

DEHUMIDIFICATION CONTROL:
- HUMIDITY SENSOR WITHIN SPACE SHALL OVERRIDE HEATING COIL CONTROL VALVE INCREMENTALLY OPEN AT (5%) STEPS COMPARED TO NORMAL SPACE TEMPERATURE CONTROL IF THE SPACE HUMIDITY SENSOR EXCEEDS 60% RH (ADJ.).
- IF SPACE HUMIDITY SENSOR IS BELOW 55% RH (ADJ.), DEHUMIDIFICATION SEQUENCE SHALL BE DISABLED.

ECONOMIZER CONTROL:
- WHEN THE O.A. TEMPERATURE IS LESS THAN THE ROOM AIR TEMPERATURE, THE FMCS SHALL ENABLE ECONOMIZER CONTROLS FOR COOLING.
- WHEN O.A. TEMPERATURE IS GREATER THAN THE ROOM AIR TEMPERATURE, THE FMCS SHALL DISABLE ECONOMIZER CONTROLS.
- ONCE ECONOMIZER CONTROLS HAVE BEEN ENABLED OR DISABLED FROM OPERATION, THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ.) BEFORE BEING ALLOWED TO SWITCH BACK (TO PREVENT SHORT CYCLING).
- IN ECONOMIZER MODE, THE FMCS SHALL MODULATE THE RETURN AND OUTSIDE AIR DAMPERS AS REQUIRED TO MAINTAIN ROOM AIR TEMPERATURE SETPOINT.

NIGHT SETBACK CONTROL:
- NIGHT SETBACK SHALL BE INITIATED VIA THE FMCS BASED ON A TIME SCHEDULE SET BY THE OWNER.
- AT THE START OF OCCUPIED MODE, THE FMCS SHALL ESTABLISH THE ROOM TEMPERATURE SETPOINT IN ACCORDANCE WITH THE SEQUENCE OF OPERATION.
- AT THE START OF UNOCCUPIED MODE, THE FMCS SHALL ESTABLISH THE ROOM TEMPERATURE SETPOINTS OF:
  COOLING SETPOINT = 80°F (ADJ.)
  HEATING SETPOINT = 60°F (ADJ.)
- DURING NIGHT SETBACK, THE UNIT VENTILATOR CAN BE PLACED INTO OCCUPIED MODE VIA THE OVERRIDE SWITCH ON THE ROOM TEMPERATURE SENSOR. WHEN THE OVERRIDE SWITCH IS ENABLED, IT SHALL CONTROL THE UNIT IN OCCUPIED MODE SETTING FOR A PERIOD OF 2 HOURS (ADJ.) AT WHICH TIME THE UNIT SHALL REVERT BACK TO NIGHT SETBACK MODE.

ALARMS, INTERLOCKS & SAFETIES:
- SHOULD ANY ONE FOOT SECTION OF THE MANUAL RESET LOW LIMIT TEMPERATURE SWITCH SENSE AIR TEMP < 36°F, THE CHILLED WATER VALVE SHALL FULLY OPEN AND THE FMCS SHALL START THE LEAD CHILLED WATER PUMP IN THE EVENT NONE OF THE CHILLED WATER PUMPS ARE IN OPERATION (IN ADDITION TO UNIT VENT SHUTDOWN). AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION.
- A FLOAT SWITCH MOUNTED IN THE DRAIN PAN BELOW EACH UNIT VENT SHALL CLOSE THE CHILLED WATER VALVE AND PREVENT SUPPLY FAN OPERATION UPON DETECTION OF WATER AND SHALL INDICATE AN ALARM TO THE OPERATOR WORKSTATION.
- FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IF THE FMCS COMMANDS THE SUPPLY FAN TO OPERATE AND THE FAN CURRENT RELAY DETECTS INSUFFICIENT CURRENT FLOW.

UNIT SHUTDOWN:
WHENEVER THE UNIT VENTILATOR IS SHUT DOWN, THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER SHALL CLOSE.
- THE RETURN AIR DAMPER SHALL OPEN.
- THE FACE AND BYPASS DAMPER SHALL CLOSE TO THE COIL.
- THE HEATING WATER CONTROL VALVE SHALL CLOSE. IF THE LOW LIMIT SWITCH IS ACTIVATED, THE HEATING COIL CONTROL VALVE SHALL FULLY OPEN.
- THE CHILLED WATER CONTROL VALVE SHALL CLOSE.
- THE SUPPLY FAN SHALL STOP.

7 UNIT VENTILATOR (VERTICAL) CONTROL
NO SCALE

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	MAM
CHK	KDW

CONTROL DIAGRAMS

M7.2

1/29/2025 2:41:55 PM

FAN COIL UNIT SCHEDULE

NOTES:
1. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
2. REFER TO FLOOR PLAN FOR SENSOR TYPE.
3. HOT WATER COIL SHALL BE IN REHEAT POSITION.

					COOLING COILS											HEATING COIL									ELECTRICAL												
					EAT		LAT		MBH																				DISCONNECT		CONTROLLER/ STARTER						
TAG NAME	AREA SERVED	CONFIGURATION	CFM	EXT. S.P. IN W.C.	DB °F	WB °F	DB °F	WB °F	TOTAL	SENSIBLE	GPM	EWT °F	LWT °F	W.P.D. FT. HD	# OF ROWS	EAT DB °F	LAT DB °F	SENSIBLE MBH	GPM	EWT °F	LWT °F	WPD FT. HD	# OF ROWS	HP (NOTE E)	RPM	FLA	MCA	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	TYPE (NOTE A)	SCCR	WEIGHT LBS	MANUFACTURER	MODEL	NOTES
FCU-1-01	CORRIDOR 116	HORIZONTAL CONCEALED	450	0.2	74.0	62.0	54.3	52.5	12.2	9.8	1.9	44	57	15.12	4	70	86.5	8.3	0.5	140	110	0.39	1	1/4	1290	1.2	1.5	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 06	1 , 2, 3
FCU-1-02	CONF. 112	HORIZONTAL CONCEALED	550	0.2	74.0	62.0	55.3	53.6	13.4	11.3	2.1	44	57	3.41	4	70	87.4	10.7	0.7	140	110	0.66	1	1/4	1206	1.2	1.5	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 08	1 , 2, 3
FCU-1-03	A/V 106	HORIZONTAL CONCEALED	330	0.2	74.0	62.0	54.4	52.7	8.8	7.2	1.4	44	57	7.61	4	70	90.2	7.4	0.7	140	120	0.50	1	1/4	1171	0.8	1.0	208	1	MFR	NF	MFR	5000	75	TITUS	THBP - A 04	1 , 2, 3
FCU-1-04	SPEECH 105	HORIZONTAL CONCEALED	275	0.2	74.0	62.0	55.7	53.8	6.5	5.6	1.0	44	57	4.41	4	70	88.1	5.5	0.5	140	120	0.27	1	1/4	1306	0.7	0.88	208	1	MFR	NF	MFR	5000	55	TITUS	THBP - A 03	1 , 2, 3
FCU-1-05	CORRIDOR 116	HORIZONTAL CONCEALED	460	0.2	74.0	62.0	54.8	53.8	10.8	9.7	1.7	44	57	1.38	6	70	89.3	10.3	1.0	140	120	0.93	1	1/3	953	3	3.75	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 06	1 , 2, 3
FCU-1-06	B1 138	HORIZONTAL CONCEALED	1200	0.2	74.0	62.0	58.7	55.9	20.7	20.1	3.5	44	57	1.17	4	70	90	28.3	2.6	140	120	6.15	1	1/2	1085	4.8	6.0	208	1	MFR	NF	MFR	5000	190	TITUS	THHP- A 12	1 , 2, 3
FCU-1-07	B1 138	HORIZONTAL CONCEALED	1200	0.2	74.0	62.0	58.7	55.9	20.7	20.1	3.5	44	57	1.17	4	70	90	28.3	2.6	140	120	6.15	1	1/2	1085	4.8	6.0	208	1	MFR	NF	MFR	5000	190	TITUS	THHP- A 12	1 , 2, 3
FCU-1-08	CLINIC 139	HORIZONTAL CONCEALED	400	0.2	74.0	62.0	55.4	54.0	9.1	8.1	1.4	44	57	1.36	4	70	95.7	11.4	1.1	140	120	0.59	1	1/4	1227	1.2	1.5	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 06	1 , 2, 3
FCU-1-09	PRINCIPAL 140	HORIZONTAL CONCEALED	250	0.2	74.0	62.0	59.5	56.2	4.2	4	0.7	44	57	3.50	2	70	95.5	7.1	0.7	140	120	1.24	1	1/4	1100	0.7	0.88	208	1	MFR	NF	MFR	5000	47	TITUS	THBP - A 03	1 , 2, 3
FCU-1-10	ADMIN 134	HORIZONTAL CONCEALED	230	0.2	74.0	62.0	59.3	56.1	4	3.7	0.6	44	57	3.07	2	70	96.5	6.8	0.7	140	120	1.12	1	1/4	1133	0.7	0.88	208	1	MFR	NF	MFR	5000	47	TITUS	THBP - A 03	1 , 2, 3
FCU-1-11	ADMIN 135	HORIZONTAL CONCEALED	250	0.2	74.0	62.0	53.2	52.4	6.8	5.7	1.1	44	57	2.45	4	70	96.6	7.4	0.7	140	120	0.23	1	1/4	1029	0.8	1.0	208	1	MFR	NF	MFR	5000	75	TITUS	THBP - A 04	1 , 2, 3
FCU-1-12	CORRIDOR 178	HORIZONTAL CONCEALED	800	0.2	74.0	62.0	59.2	56	14	13	2.2	44	57	1.45	3	70	94.3	21.5	2.1	140	120	3.50	1	1/4	1272	2	2.25	208	1	MFR	NF	MFR	5000	135	TITUS	THBP- A 10	1 , 2, 3
FCU-1-13	ROOM 159	HORIZONTAL CONCEALED	575	0.2	74.0	62.0	58.8	55.8	10.4	9.5	1.6	44	57	1.59	3	70	95.7	16.3	1.6	140	120	13.90	1	1/4	1225	1.2	1.5	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 08	1 , 2, 3
FCU-1-14	ROOM 157	HORIZONTAL CONCEALED	400	0.5	74.0	62.0	57.5	54.8	8.3	7.2	1.3	44	57	3.15	3	70	95.7	11.4	1.1	140	120	0.59	1	1/4	1550	1.2	1.5	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 06	1 , 2, 3
FCU-1-15	ROOM 156	HORIZONTAL CONCEALED	250	0.2	74.0	62.0	57.5	55.1	5.1	4.6	0.8	44	57	2.26	3	70	93.1	6.4	0.6	140	120	0.31	1	1/4	1143	0.7	0.88	208	1	MFR	NF	MFR	5000	55	TITUS	THBP - A 03	1 , 2, 3
FCU-1-16	CORRIDOR 178	HORIZONTAL CONCEALED	550	0.2	74.0	62.0	55.1	53.5	13.3	11.4	2.1	44	57	13.50	4	70	91.4	13.3	1.3	140	120	7.12	1	1/3	1036	3	3.75	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 06	1 , 2, 3
FCU-1-17	SENSORY ROOM 168	HORIZONTAL CONCEALED	540	0.2	74.0	62.0	54.9	53.2	13.5	11.4	2.2	44	57	5.00	4	70	91.3	13.1	1.3	140	120	2.26	1	1/3	881	3	3.75	208	1	MFR	NF	MFR	5000	115	TITUS	THBP - A 08	1 , 2, 3
FCU-1-18	OFFICE 101	HORIZONTAL CONCEALED	350	0.2	74.0	62.0	58.7	55.5	6.7	5.9	1.0	44	57	3.95	3	70	89.7	7.6	0.8	140	120	0.53	1	1/4	1156	0.8	1.0	208	1	MFR	NF	MFR	5000	75	TITUS	THBP - A 04	1 , 2, 3

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.
TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
CB = CIRCUIT BREAKER
F = FUSED
NF = NON-FUSED
PLUG = PLUG AND CORD

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
YD = WYE - DELTA
ECM = ELECTRONICALLY COMMUTATED MOTOR

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

HOOD & LOUVERED PENTHOUSE SCHEDULE

			THROAT SIZE						MAX. DIMENSIONS (INCHES)					
TAG NAME	SERVICE	CFM	WIDTH	LENGTH	THROAT VELOCITY (FPM)	STATIC PRESSURE DROP (IN W.C.)	FREE AREA (FT ^{2})	CONFIGURATION	MAX. HEIGHT (TOP OF CURB TO TOP OF EQUIP.) INCHES	LENGTH	WIDTH	HEIGHT	FINISH TYPE (NOTE 1)	MANUFACTURER	MODEL
IH-1	HUV-1-01B OA INTAKE	1300	1'-6"	1'-6"	578	0.20	3	LOUVERED PENTHOUSE	40	32	32	28	TYPE 1	GREENHECK	ESD-635PD
IH-2	HUV-1-01A OA INTAKE	1300	1'-6"	1'-6"	578	0.20	3	LOUVERED PENTHOUSE	40	32	32	28	TYPE 1	GREENHECK	ESD-635PD
IH-3	HUV-1-02B OA INTAKE	1300	1'-6"	1'-6"	578	0.20	3	LOUVERED PENTHOUSE	40	32	32	28	TYPE 1	GREENHECK	ESD-635PD
IH-4	HUV-1-02A OA INTAKE	1300	1'-6"	1'-6"	578	0.20	3	LOUVERED PENTHOUSE	40	32	32	28	TYPE 1	GREENHECK	ESD-635PD
IH-5	HUV-1-03 OA INTAKE	1650	1'-8"	1'-8"	648	0.20	4	LOUVERED PENTHOUSE	40	20	34	28	TYPE 1	GREENHECK	ESD-635PD
IH-6	HUV-1-04 OA INTAKE	1800	1'-8"	1'-8"	648	0.20	4	LOUVERED PENTHOUSE	40	20	34	28	TYPE 1	GREENHECK	ESD-635PD

GLYCOL FEED SYSTEM

NOTES:
1.SEE 23 21 00 FOR ADDITIONAL SYSTEM REQUIREMENTS.

						ELECTRICAL						
TAG NAME	AREA SERVED	TANK VOLUME	SYSTEM FILL PRESSURE	PUMP HEAD PSI	GPM	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	CONTROLLER/ STARTER BY (NOTE A)	MANUFACTURER	MODEL	NOTES
GFS-1	GLYCOL WATER SYSTEM	55.0	60	35	5.0	120	1	MFR	MFR	BELL & GOSSETT	GMU560S	1
GFS-2	HEATING WATER SYSTEM	55.0	60	35	5.0	120	1	MFR	MFR	BELL & GOSSETT	GMU560S	1

PIPE INSULATION SCHEDULE (HVAC)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.
5. APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ETC.)

			INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE					
SYMBOL	PIPE SYSTEM	INSULATION TYPE	< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	NOTES
D	DRAIN	A (GlsFbr), B (Elasto)	1/2"	1/2"	1"	1"	1"	1, 2, 3, 4, 5
DPP	DRAIN - PIPING	A (GlsFbr), B (Elasto)	1/2"	1/2"	1"	1"	1"	1, 2, 3, 4, 5
GWR	GLYCOL WATER RETURN	A (GlsFbr)	1/2"	1/2"	1"	1"	1"	1, 2, 4
GWS	GLYCOL WATER SUPPLY	A (GlsFbr)	1/2"	1"	1"	1"	1 1/2"	1, 2, 4
HWR	HEATING WATER RETURN	A (GlsFbr)	1"	1"	1"	1 1/2"	1 1/2"	1, 2, 4
HWS	HEATING WATER SUPPLY	A (GlsFbr)	1"	1"	1"	1 1/2"	1 1/2"	1, 2, 4

LOUVER SCHEDULE

NOTES:
1.FINISH TYPES: TYPE 1 - MILL FINISH, TYPE 2 - 204-R1 SATIN ANODIZED, TYPE 3 - BAKED ENAMEL FINISH ON PRETREATED PRIME PAINT. STANDARD COLOR - SELECTION BY ARCHITECT. TYPE 4 - BAKED EPOXY FINISH ON PRIME COATED METAL. STANDARD COLOR - SELECTION BY ARCHITECT. TYPE 5 - DURANODIC BRONZE - LIGHT, MEDIUM, DARK. TYPE 6 - PVDF (KYNAR 500, HYLAR 5000, OR DURANAR). STANDARD COLOR - SELECTION BY ARCHITECT.

			SIZE (INCHES)							
TAG NAME	AREA SERVED	CFM	WIDTH	HEIGHT	FREE AREA VELOCITY	S.P. IN. W.C.	FINISH (NOTE 1)	MANUFACTURER	MODEL	NOTES
L-1	COMPUTER LAB 103	2000	30	26	3	0.09	TYPE 3	GREENHECK	ESD - 635	1

MISCELLANEOUS SCHEDULE

NOTES:
1. PRE CHARGED TO 12 PSI (FIELD ADJUSTABLE).

TAG NAME	SERVICE	DESCRIPTION	MANUFACTURER	MODEL	NOTES
ALARM-1	BOILER 185 ROOM & ELEC. 124 ROOM	CARBON MONOXIDE AND NATURAL GAS DETECTION ALARM PANEL			
ALARM-2	MECH 102	CARBON MONOXIDE AND NATURAL GAS DETECTION ALARM PANEL			
AS-1	HEATING WATER SYSTEM	ASME AIR SEPARATOR	B & G	R-5F	
AS-2	GLYCOL WATER SYSTEM	ASME AIR SEPARATOR	B & G	R-4F	
ET-1	HEATING WATER SYSTEM	ASME EXPANSION TANK	WATTS	ET- RA 50	1
ET-2	GLYCOL WATER SYSTEM	ASME EXPANSION TANK	WATTS	ET-RA 35	1
GR-1	B-3 & B-4	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 1 PSI OUTLET PRESSURE, 4000 CFH CAPACITY AS SHOWN ON DRAWING, MINIMUM CONTROLLABLE FLOW OF 400 CFH. CONTRACTOR SHALL SIZE AND ROUTE REGULATOR RELIEF VENTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A MAXIMUM EQUIVALENT LENGTH OF 60 FEET.	FISHER	133L SERIES	
GR-2	MAU-1	GAS PRESSURE REGULATOR - CAST IRON BODY, EXTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 11" W.C. OUTLET PRESSURE, 210 CFH CAPACITY AS SHOWN ON DRAWING, MINIMUM CONTROLLABLE FLOW OF 20 CFH. CONTRACTOR SHALL SIZE AND ROUTE REGULATOR RELIEF VENTING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A MAXIMUM EQUIVALENT LENGTH OF 60 FEET.	FISHER	133L SERIES	

BUILDING RELIEF FAN SCHEDULE

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
2.MOTORIZED DAMPER BY TCC INLINE FAN INLET DUCTWORK BELOW ROOF.
3.ECM BY FAN MANUFACTURER.

								ELECTRICAL (NOTE 1)										
												DISCONNECT		CONTROLLER/ STARTER				
TAG NAME	SERVICE	CFM	S.P. IN. W.C.	WHEEL DIA. INCHES	FAN RPM (NOTE F)	DRIVE TYPE	CURB TYPE (NOTE G)	BHP (NOTE E)	MHP (NOTE E)	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	MANUFACTURER	MODEL	NOTES
EF-6	EAST SIDE RELIEF AIR	10980	0.25	30.5	712	DIRECT DRIVE	MFR	2.3	5	208	3	MFR	NF	MFR	ECM	GREENHECK	CUE-300-VG	1, 2, 3
EF-7	EAST SIDE RELIEF AIR	10980	0.25	30.5	712	DIRECT DRIVE	MFR	2.3	5	208	3	MFR	NF	MFR	ECM	GREENHECK	CUE-300-VG	1, 2, 3
EF-8	WEST SIDE RELIEF AIR	10980	0.25	30.5	712	DIRECT DRIVE	MFR	2.3	5	208	3	MFR	NF	MFR	ECM	GREENHECK	CUE-300-VG	1, 2, 3
EF-9	WEST SIDE RELIEF AIR	10980	0.25	30.5	712	DIRECT DRIVE	MFR	2.3	5	208	3	MFR	NF	MFR	ECM	GREENHECK	CUE-300-VG	1, 2, 3

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REF. SCALE IN INCHES
PROJECT #24001305.00

STATE OF INDIANA PROFESSIONAL ENGINEER No. PE50910310 STATE OF INDIANA
01.31.25

ROACHDALE ELEMENTARY SCHOOL HVAC IMPROVEMENTS - VOL. 2
NORTH PUTNAM COMMUNITY SCHOOLS
305 SOUTH INDIANA STREET
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS
NO. DATE DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
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CHK NHA

HVAC SCHEDULES

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FAN COIL UNIT SCHEDULE - HYDRONIC

NOTES:
1. REFER TO DETAIL #5 / M7.2 FOR DESCRIPTION OF CONTROL TYPE.
2. REFER TO FLOOR PLAN FOR SENSOR TYPE.

TAG NAME	AREA SERVED	CONFIGURATION	CFM	EXT. S.P. IN W.C.	COOLING COIL EAT °F DB	EAT °F WB	LAT DB °F	MBH TOTAL	MBH SENS.	GPM	EWT °F	LWT °F	WPD FT. HD	# OF ROWS	HEATING COIL TOTAL MBH	GPM	EWT °F	LWT °F	WPD FT. HD	# OF ROWS	ELECTRICAL HP (NOTE E)	RPM	MCA	MOCP	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER TYPE (NOTE A)	SCCR	MANUFACTURER	MODEL	NOTES
FCU-1-01	CORR. G101A	HORIZONTAL RECESSED	1400	0.05	80.0	67.0	56.9	48.0	34.3	6.9	44	58	14.6	4	38.4	2.6	180	150	2.4	1	0.48	1635	3.6	15	277	1	MFR	NF	ECM	5000	TRANE	FCE120	1, 2
FCU-1-02	CORR. G101C	HORIZONTAL RECESSED	700	0.05	80.0	67.0	56.4	24.5	17.5	4.4	44	55	8.6	4	17.9	1.2	180	150	0.4	1	0.24	1541	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-03	ELEC. G107	HORIZONTAL RECESSED	1050	0.05	80.0	67.0	56.4	36.5	26.2	4.5	44	60	6.8	4	33.7	2.3	180	150	1.9	1	0.48	1302	3.6	15	277	1	MFR	NF	ECM	5000	TRANE	FCE100	1, 2
FCU-1-04	CORR. G101D	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-05	PREP G123	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-06	CORR. G101D	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-07	MEDIA CENTER G117	HORIZONTAL DUCTED	900	0.30	80.0	67.0	56.7	30.5	22.3	3.4	44	62	4.1	4	31.4	2.1	180	150	1.7	1	0.48	1448	3.6	15	277	1	MFR	NF	ECM	5000	TRANE	FCC100	1, 2
FCU-1-08	CONF. G118	HORIZONTAL RECESSED	700	0.05	80.0	67.0	56.4	24.5	17.5	4.4	44	55	8.6	4	17.9	1.2	180	150	0.4	1	0.24	1541	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-09	MEDIA CENTER G117	HORIZONTAL DUCTED	500	0.30	80.0	67.0	55.4	18.5	13.0	3.2	44	56	4.8	4	15.4	1.0	180	150	0.3	1	0.24	1438	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCC060	1, 2
FCU-1-10	MEDIA CENTER G117	HORIZONTAL DUCTED	500	0.30	80.0	67.0	55.4	18.5	13.0	3.2	44	56	4.8	4	15.4	1.0	180	150	0.3	1	0.24	1438	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCC060	1, 2
FCU-1-11	MEDIA CENTER G117	HORIZONTAL DUCTED	500	0.30	80.0	67.0	55.4	18.5	13.0	3.2	44	56	4.8	4	15.4	1.0	180	150	0.3	1	0.24	1438	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCC060	1, 2
FCU-1-12	NURSE F105	HORIZONTAL RECESSED	300	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-1-13	OFFICE F106	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-14	OFFICE F103	HORIZONTAL DUCTED	500	0.30	80.0	67.0	55.4	18.5	13.0	3.2	44	56	4.8	4	15.4	1.0	180	150	0.3	1	0.24	1438	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCC060	1, 2
FCU-1-15	OFFICE F107	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-16	OFFICE F108	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-17	CORR. F100A	HORIZONTAL RECESSED	700	0.05	80.0	67.0	56.4	24.5	17.5	4.4	44	55	8.6	4	17.9	1.2	180	150	0.4	1	0.24	1541	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-18	MAIN OFFICE G100	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-1-19	OFFICE G100E	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-20	OFFICE G100D	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-21	COPY G100A	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-22	OFFICE G100C	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-23	LOUNGE G100B	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-1-24	OFFICE F111	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-25	OFFICE 329	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-26	TRAINING ROOM 325	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-27	LAUNDRY E326	HORIZONTAL RECESSED	700	0.05	80.0	67.0	56.4	24.5	17.5	4.4	44	55	8.6	4	17.9	1.2	180	150	0.4	1	0.24	1541	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-28	STUDENT COMMONS E112	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-1-29	WARMING KITCHEN 320	HORIZONTAL RECESSED	1400	0.05	80.0	67.0	56.9	48.0	34.3	6.9	44	58	14.6	4	38.4	2.6	180	150	2.4	1	0.48	1635	3.6	15	277	1	MFR	NF	ECM	5000	TRANE	FCE120	1, 2
FCU-1-30	WARMING KITCHEN 320	HORIZONTAL RECESSED	1400	0.05	80.0	67.0	56.9	48.0	34.3	6.9	44	58	14.6	4	38.4	2.6	180	150	2.4	1	0.48	1635	3.6	15	277	1	MFR	NF	ECM	5000	TRANE	FCE120	1, 2
FCU-1-31	CONCESSIONS 321	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-1-32	BOOKSTORE 322	HORIZONTAL RECESSED	160	0.05	80.0	67.0	54.9	6.5	4.3	1.9	44	51	5.1	3	6.4	0.6	180	160	0.1	1	0.24	797	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE020	1, 2
FCU-1-33	PUMP ROOM H117	HORIZONTAL RECESSED	700	0.05	80.0	67.0	56.4	24.5	17.5	4.4	44	55	8.6	4	17.9	1.2	180	150	0.4	1	0.24	1541	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-2-01	CORR. G222A	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-2-02	CORR. G222B	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-2-03	CORR. G222C	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-2-04	CORR. G222C	HORIZONTAL RECESSED	525	0.05	80.0	67.0	56.1	18.5	13.3	3.0	44	56	4.3	4	15.7	1.1	180	150	0.3	1	0.24	1211	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2
FCU-2-05	STUDY 204	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-2-06	STUDY 209	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-2-07	STUDY 210	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-2-08	STUDY G218	HORIZONTAL RECESSED	350	0.05	80.0	67.0	56.3	12.5	8.8	2.0	44	57	8.0	4	9.7	0.7	180	150	0.1	1	0.24	1291	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE040	1, 2
FCU-2-09	MDF	HORIZONTAL RECESSED	700	0.05	80.0	67.0	56.4	24.5	17.5	4.4	44	55	8.6	4	17.9	1.2	180	150	0.4	1	0.24	1541	2.0	15	277	1	MFR	NF	ECM	5000	TRANE	FCE060	1, 2

VERTICAL UNIT VENTILATOR SCHEDULE

NOTES:
1. REFER TO DETAIL #7 / M7.2 FOR DESCRIPTION OF CONTROL TYPE.
2. REFER TO FLOOR PLAN FOR SENSOR TYPE.
3. REFER TO DETAIL #5 / M6.2 FOR INSTALLATION DETAIL.
4. REFER TO DETAIL #6 / M6.2 FOR INSTALLATION DETAIL.

TAG NAME	AREA SERVED	CFM	EXT. S.P. IN W.C.	COOLING COIL EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	EWT °F	LWT °F	GPM	MBH TOTAL	MBH SENS.	WPD FT. HD	# ROWS	HEATING COIL EAT DB °F	MIN. LAT DB °F	EWT °F	LWT °F	GPM	MIN. MBH	WPD FT. HD	# ROWS	ELECTRICAL HP	RPM	FLA	MCA	MOCP	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)	SCCR	MANUFACTURER	MODEL	NOTES
VUV-1-01	CLASSROOM G103	900	0.5	80	67	55	54	44	55	7.0	38.9	25.4	6.0	5	45	90	180	153	4.0	43.7	5.0	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-1-02	CLASSROOM G104	1,400	0.5	80	67	55	54	44	56	10.0	59.9	39.1	13.6	5	45	90	180	160	8.0	68.0	4.0	1	0.75	1400	11.2	14	20	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1600D	1, 2, 3
VUV-1-03	CLASSROOM G105	1,400	0.5	80	67	55	54	44	56	10.0	59.9	39.1	13.6	5	45	90	180	160	8.0	68.0	4.0	1	0.75	1400	11.2	14	20	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1600D	1, 2, 3
VUV-1-04	CLASSROOM G106	1,220	0.5	80	67	54	54	44	57	8.5	53.8	34.8	10.1	5	45	90	180	159	7.0	59.3	3.1	1	0.75	1400	11.2	14	20	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1600D	1, 2, 3
VUV-1-05	CLASSROOM G108	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-1-06	CLASSROOM G109	900	0.5	80	67	55	54	44	55	7.0	38.9	25.4	6.0	5	45	90	180	153	4.0	43.7	5.0	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-1-07	CLASSROOM G110	900	0.5	80	67	55	54	44	55	7.0	38.9	25.4	6.0	5	45	90	180	153	4.0	43.7	5.0	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-1-08	CLASSROOM G111	900	0.5	80	67	55	54	44	55	7.0	38.9	25.4	6.0	5	45	90	180	153	4.0	43.7	5.0	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-01	CLASSROOM G200	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-02	CLASSROOM G201	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-03	CLASSROOM G202	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-04	CLASSROOM G203	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-05	CLASSROOM G206	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-06	CLASSROOM G207	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-07	CLASSROOM G208	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-08	CLASSROOM G211	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-09	CLASSROOM G212	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-10	CLASSROOM G213	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-11	CLASSROOM G214	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 3
VUV-2-12	CLASSROOM G215	1,060	0.5	80	67	55	55	44	54	8.5	44.0	29.1	8.7	5	45	90	180	159	6.0	51.5	10.8	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 4
VUV-2-13	CLASSROOM G216	700	0.5	80	67	55	55	44	59	4.0	29.8	19.6	2.1	5	45	90	180	149	3.0	34.0	2.9	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 4
VUV-2-14	CLASSROOM G217	700	0.5	80	67	55	55	44	59	4.0	29.8	19.6	2.1	5	45	90	180	149	3.0	34.0	2.9	1	0.5	1400	8.4	11	15	120	1	MFR	NF	MFR	5000	TEMSPEC	VUD 1200D	1, 2, 4

UNIT HEATER SCHEDULE - ELECTRIC

NOTES:
1. REFER TO DETAIL #5 / M7.2 FOR CONTROL DIAGRAM.

TAG NAME	CFM	EAT °F	LAT °F	HEATING ELEMENT NUMBER OF STAGES	KW	ELECTRICAL HP	RPM	VOLTAGE	PHASES	FLA	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/STARTER BY (NOTE A)	SCCR	WEIGHT (LB.)	MANUFACTURER	MODEL	NOTES
UH-1	350	55.0	100.0	2	5	0.01	1600	208	1	24.0	MFR	NF	MFR	5000	27	QMARK	MUH05	1
UH-AHU1	350	55.0	82.0	1	3	0.01	1600	208	1	14.5	MFR	NF	MFR	5000	27	QMARK	MUH03	1
UH-AHU2	350	55.0	82.0	1	3	0.01	1600	208	1	14.5	MFR	NF	MFR	5000	27	QMARK	MUH03	1
UH-DHU1	350	55.0	82.0	1	3	0.01	1600	208	1	14.5	MFR	NF	MFR	5000	27	QMARK	MUH03	1

ROOF HOOD SCHEDULE

TAG NAME	SERVICE	CFM	THROAT SIZE (IN.) WIDTH	THROAT SIZE (IN.) LENGTH	THROAT VEL. FPM	STATIC PRESSURE DROP IN. WC	FREE AREA (FT ²)	CONFIGURATION	DAMPER TYPE	CURB TYPE (NOTE G)	MAX. DIMENSIONS (IN.) LENGTH	WIDTH	HEIGHT	WEIGHT (LB)	MANUFACTURER	MODEL	NOTES
IH-1	VUV-2-12 OA INTAKE	1060	16	16	600	0.05	1.78	GRAVITY HOOD	MOTORIZED	MFR	39	30	16	52	GREENHECK	FGI-16X16	
IH-2	VUV-2-13 OA INTAKE	700	12	18	475	0.03	1.5	GRAVITY HOOD	MOTORIZED	MFR	39	26	14	46	GREENHECK	FGI-12X18	
IH-3	VUV-2-14 OA INTAKE	700	12	18	475	0.03	1.5	GRAVITY HOOD	MOTORIZED	MFR	39	26	14	46	GREENHECK	FGI-12X18	

CABINET HEATER SCHEDULE - HOT WATER

NOTES:
1. COORDINATE COLOR SELECTION WITH ARCHITECT.
2. REFER TO DETAIL #4 / M7.2 FOR CONTROL DIAGRAM.

TAG NAME	CONFIGURATION	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	MAX W.P.D. FT. HD	ELECTRICAL FAN HP	RPM	VOLTAGE	PHASES	DISCONNECT BY (NOTE A)	DISCONNECT TYPE (NOTE B)	CONTROLLER/ STARTER BY (NOTE A)	SCCR	WEIGHT (LB.) OPERATING	MANUFACTURER	MODEL	NOTES
CAB-A	HORIZONTAL RECESSED	150	13.22	0.9	180	150	3.60	0.008	700	120	1	MFR	NF	MFR	5000	78	TRANE	FFE020	1, 2

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.
TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
CB = CIRCUIT BREAKER
F = FUSED
NF = NON-FUSED
PLUG = PLUG AND CORD

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
YD = WYE - DELTA
ECM = ELECTRONICALLY COMMUTATED MOTOR

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

KYLE D. WILSON
REGISTERED
No. PE11200655
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS
ARCHITECTS

REVISIONS
NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR MAM
CHK KDW

MECHANICAL SCHEDULES

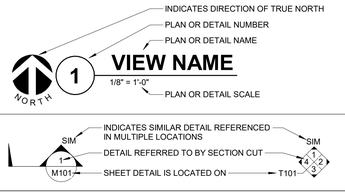
M8.1

1/29/2025 2:42:09 PM

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED. SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	IMC	EMT	PVC	PVC CONCRETE ENCASED	RTRC
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X			
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X			
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X			
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X			
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X			
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X					X
CORROSIVE LOCATIONS						X
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X			X		
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			X			
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	X			
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED			X			
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)						
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X			X		
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X				X	X
UNDERGROUND SITE CONDUITS:						
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				X	X
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X			X		X
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT				X	X	
FIRE RATED ASSEMBLIES: FIRE RATED ASSEMBLIES LISTED WITH PHENOLIC RTRC RACEWAY						X
DEFINITIONS:						
CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE FOUNDATION.						

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
GB	GB	26 05 26	GROUND BUS
E / E	ECONN	26 05 33	ELECTRICAL CONNECTION
J / J	JB	26 05 33	JUNCTION BOX
PB	PB	26 09 16	MOMENTARY PUSHBUTTON OPERATOR
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-# /CB-#/CS-# /MD-#/FS-# /AS-#/SS-#/ MCS-#/ AMS-#	26 24 19 26 28 16	SURFACE OR RECESS MOUNTED MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER. MANUAL DISCONNECT / FUSED SWITCH (PLUG FUSE) / AUTOMATIC STARTER / SOLID STATE - SOFT STARTER / COMBINATION STARTER / MOTOR CIRCUIT PROTECTOR / ASSEMBLED MOTOR STARTER. REFER TO DISC/STA SCHEDULE.
	FCS-#	26 28 16	FUSED COMBINATION STARTER REFER TO DISC/STA STARTER
	TR-#/DTR-#		TRANSFORMER.
	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT SWITCH FUSED DISCONNECT SWITCH INTERLOCKED RECEPTACLE DISCONNECT. REFER TO DISC/STA SCHEDULE
PP	PP	ARCH	PUSH PAD
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
G	REC-DUP-GFI-R	26 27 26	GROUND FAULT DEVICE
W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-ISO	26 27 26	ISOLATED GROUND RECEPTACLE, 125V
	REC-SIM-520R	26 27 26	SIMPLEX RECEPTACLE, 125V
	REC-SIM-530R	26 27 26	RECEPTACLE, 125V
	REC-SIM-550R	26 27 26	RECEPTACLE 125V, 50A, 125V
	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V
	REC-SIM-630R	26 27 26	RECEPTACLE, 6-30R, 250V
	REC-SIM-1420R	26 27 26	RECEPTACLE, 14-20R, 125/250V
	REC-SIM-1430R	26 27 26	RECEPTACLE, 14-30R, 125/250V
L	REC-SIM-L1420R	26 27 26	RECEPTACLE, LOCKING L14-20R, 125/250V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
C-#	GENERAL PURPOSE CONTACTOR	26 28 21
DP-#	DISTRIBUTION PANEL	26 24 16
R-#	RELAY	26 09 39

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE:	IBC 2014 EDITION	WITH AMENDMENTS
FIRE CODE:	IFC 2012 EDITION	WITH AMENDMENTS
PLUMBING CODE:	IPC 2012 EDITION	WITH AMENDMENTS
MECHANICAL CODE:	IMC 2014 EDITION	WITH AMENDMENTS
ELECTRICAL CODE:	IEC 2009 EDITION (NFPA 70-2008)	WITH AMENDMENTS

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:

DEVICE — # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
R	MOUNT IN SURFACE RACEWAY
S	SURFACE MOUNTED
W	WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED
WG	WIRE GUARD
WP	WEATHERPROOF

EQUIPMENT ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	AUTOMATIC DOOR OPERATOR WITH SENSOR
COF	COFFEE
COPY	COPIER
DISP	GARBAGE DISPOSAL
DOOR	DOOR OPERATOR, ELECTRIC
DRY	DRYER, CLOTHS
DW	DISHWASHER
ELEV	ELEVATOR
ELVC	ELEVATOR CAB CONNECTION
ELVD	ELEVATOR AUDIO VISUAL DATA SYSTEM
EPT	ELECTRONIC PAPER TOWEL DISPENSER (NON-BATTERY)
ESP	ESPRESSO MACHINE
EWC	ELECTRIC WATER COOLER
EWCC	ELECTRIC WATER COOLER CONDENSER
FAN	CEILING FAN
FFE	OWNER FURNISHED FIXTURES, FURNITURE, AND EQUIPMENT
FURN	OWNER FURNITURE
HD	HAND DRYER
ICE	ICE MACHINE
MS	MOTORIZED SHADE
MW	MICROWAVE
OHD	OVERHEAD DOOR
OVEN	OVEN, WALL
PFR	PLUMB FIXTURE RECEPT FOR LV VALVE POWER
PP	PUSH PAD AUTOMATIC DOOR OPERATOR (REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION)
PW	POWER WASHER SPECIAL RECEPTACLE
REF	REFRIGERATOR
SIGN	DEDICATED SIGNAGE CIRCUIT
TCP	TEMPERATURE CONTROLS PANEL
TV	TELEVISION - MONITOR - DISPLAY
UCM	UNDERCOUNTER MICROWAVE
UCR	UNDERCOUNTER REFRIGERATOR
VEND	VENDING MACHINE

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASR	ARCHITECTURAL SURFACE RACEWAY
BC	BELOW COUNTER
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
EOL	END OF LINE
EPO	EMERGENCY POWER OFF
GFR	GROUND FAULT REMOTE
HOA	HAND/OFF/AUTO
ITR	IT RACK MOUNTED RECEPTACLE
NC	NORMALLY CLOSED
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. EMERGENCY BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +46" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A 0Ø1 RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS,CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
14. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
16. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
3. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
5. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL SHEET INDEX

E0.0	ELECTRICAL COVERSHEET
E0.1	ELECTRICAL LIGHTING COVERSHEET
E0.2	ELECTRICAL SYSTEMS COVERSHEET
E1.0	ELECTRICAL SITE DEMOLITION PLAN
E1.0D	BASEMENT ELECTRICAL DEMOLITION PLAN - AREA D
E1.1A	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
E1.1D	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA D
E1.1E	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA E
E1.1F	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA F
E1.1G	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA G
E1.1H	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA H
E1.2D	POOL MEZZANINE ELECTRICAL DEMOLITION PLAN - AREA D
E1.3F	UPPER FLOOR ELECTRICAL DEMOLITION PLAN - AREA F
E1.3G	UPPER FLOOR ELECTRICAL DEMOLITION PLAN - AREA G
E1.4D	ROOF ELECTRICAL DEMOLITION PLAN - AREA D
E1.4E	ROOF ELECTRICAL DEMOLITION PLAN - AREA E
E1.4F	ROOF ELECTRICAL DEMOLITION PLAN - AREA F
E1.4G	ROOF ELECTRICAL DEMOLITION PLAN - AREA G
E2.0	ELECTRICAL SITE PLAN
E2.1D	GROUND FLOOR LIGHTING PLAN - AREA D
E2.1F	GROUND FLOOR LIGHTING PLAN - AREA F
E2.1H	GROUND FLOOR LIGHTING PLAN - AREA H
E2.2D	POOL MEZZANINE LIGHTING PLAN - AREA D
E2.3H	UPPER FLOOR LIGHTING PLAN - AREA H
E3.1C	GROUND FLOOR POWER PLAN - AREA C
E3.1E	GROUND FLOOR POWER PLAN - AREA E
E3.1F	GROUND FLOOR POWER PLAN - AREA F
E3.1G	GROUND FLOOR POWER PLAN - AREA G
E3.1H	GROUND FLOOR POWER PLAN - AREA H
E3.3F	UPPER FLOOR POWER PLAN - AREA F
E3.3G	UPPER FLOOR POWER PLAN - AREA G
E3.3H	UPPER FLOOR POWER PLAN - AREA H
E3.4D	ROOF ELECTRICAL PLAN - AREA D
E3.4G	ROOF POWER PLAN - AREA G
E3.4H	ROOF POWER PLAN - AREA H
E4.1H	GROUND FLOOR SYSTEMS PLAN - AREA H
E4.3H	UPPER FLOOR SYSTEMS PLAN - AREA H
E6.0	ELECTRICAL DETAILS
E6.1	ELECTRICAL DETAILS
E8.0	ELECTRICAL SCHEDULES
E9.0	ELECTRICAL PANEL SCHEDULES
E9.1	ELECTRICAL PANEL SCHEDULES
E9.2	ELECTRICAL PANEL SCHEDULES
GRAND TOTAL: 43	

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0 1 2 3
REF. SCALE IN INCHES — PROJECT #24001305.00

ANDERSON R. WILLIAMS III
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR JHN
CHK ARW

ELECTRICAL COVERSHEET

E0.0

1/29/2025 11:09:00 AM

ELECTRICAL SYMBOL LIST

SYMBOL:	SPEC TAG:	SPEC SECTION:	DESCRIPTION:
S ##	SW-1P SW-2P SW-3W SW-4W SW-D SW-D3 SW-DML SW-DO SW-1P-WP SW-O SW-O2 SW-1P-K SW-2P-K SW-3W-K SW-4W-K SW-1P-PL SW-1P-LH SW-1P-M SW-1P-060 SW-1P-ADJ	26 09 33	SWITCH SUBSCRIPTS: BLANK = SINGLE POLE 2 = TWO POLE 3 = THREE WAY 4 = FOUR WAY D = DIMMER - STAND ALONE D3=DIMMER - THREE WAY WITH S3 TYPE DML=DIMMER - MULTI-LOCATION FADE CONTROL DO=DIMMER - OCCUPANCY/VACANCY SENSORS - DUAL TECHNOLOGY ULTRASONIC/ACOUSTIC AND PIR W = WEATHERPROOF O = DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL SWITCH O2=OCCUPANCY SENSOR AND DUAL SWITCH K = SINGLE POLE - KEY LOCK K2=TWO POLE - KEY LOCK K3= THREE WAY - KEY LOCK K4=FOUR WAY - KEY LOCK P = SINGLE POLE - RED PILOT LIGHT L = SINGLE POLE - LIGHTED HANDLE M = THREE POSITION MOMENTARY 60= LOCAL TIMER - SPRING WOUND T = LOCAL TIMER - USER ADJUSTABLE
LS ##	SW-LS	26 09 33	DAYLIGHT LEVEL SENSOR - CEILING MOUNTED SUBSCRIPTS: BLANK = DIMMING CONTROL # = SPECIAL FUNCTION S = SWITCHED CONTROL W =WIRELESS WITH BATTERY
OC ##	SW-OC-D SW-OC-A SW-OC-P SW-OC-P2 SW-OC-U SW-OC-HA SW-OC-HB SW-OC-W	26 09 33	OCCUPANCY SENSOR - CEILING MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY A = ULTRASONIC - TWO SIDED CORRIDOR COVERAGE P = PASSIVE INFRARED - 360° COVERAGE P2=PASSIVE INFRARED - 100° COVERAGE U = ULTRASONIC - 360° COVERAGE HA=HIGHBAY - ISLE COVERAGE HB=HIGH BAY W = WIRELESS WITH BATTERY
VC ##	SW-VC-D SW-VC-A SW-VC-P SW-VC-P2 SW-VC-U SW-VC-HA SW-VC-HB SW-VC-W	26 09 33	VACANCY SENSOR - CEILING MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY A = ULTRASONIC - TWO SIDED CORRIDOR COVERAGE P = PASSIVE INFRARED - 360° COVERAGE P2=PASSIVE INFRARED - 100° COVERAGE U = ULTRASONIC - 360° COVERAGE HA=HIGHBAY - ISLE COVERAGE HB=HIGH BAY W = WIRELESS WITH BATTERY
OC ##	SW-OC-D SW-OC-A SW-OC-P SW-OC-P2 SW-OC-U SW-OC-HA SW-OC-HB SW-OC-W	26 09 33	OCCUPANCY SENSOR - WALL MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY A = ULTRASONIC - TWO SIDED CORRIDOR COVERAGE P = PASSIVE INFRARED - 360° COVERAGE P2=PASSIVE INFRARED - 100° COVERAGE U = ULTRASONIC - 360° COVERAGE HA=HIGHBAY - ISLE COVERAGE HB=HIGH BAY W = WIRELESS WITH BATTERY
VC ##	SW-VC-D SW-VC-A SW-VC-P SW-VC-P2 SW-VC-U SW-VC-HA SW-VC-HB SW-VC-W	26 09 33	VACANCY SENSOR - WALL MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY A = ULTRASONIC - TWO SIDED CORRIDOR COVERAGE P = PASSIVE INFRARED - 360° COVERAGE P2=PASSIVE INFRARED - 100° COVERAGE U = ULTRASONIC - 360° COVERAGE HA=HIGHBAY - ISLE COVERAGE HB=HIGH BAY W = WIRELESS WITH BATTERY
PC ##	SW-LS-PC	26 09 33	EXTERIOR PHOTOCELL SUBSCRIPTS: BLANK = STAND ALONE DEVICE #R=ROOM BASED LIGHTING CONTROL DEVICE #N =NETWORK BASED LIGHTING CONTROL DEVICE
TC	SW-TC	26 09 33	TIME CLOCK SWITCH

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

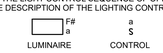
1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.

2. ROOM BASED LIGHTING CONTROLS: INTEGRATED SYSTEM COMPRISED OF SWITCH STATIONS, SENSORS, ROOM CONTROLLERS, CONTROL PANELS, AND ACCESSORIES, OPERATING AT LINE AND/OR LOW VOLTAGE, CONFIGURED AS AN INTEGRATED OVERALL 'INTELLIGENT' LIGHTING CONTROL SYSTEM. LIGHTING CONTROL ZONES AND POWER CIRCUITS COMMONLY ALIGN.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.

   A. EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
   B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
   C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" WITHIN THE SAME SPACE.
   D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.



2. ROOM BASED LIGHTING CONTROLS: CONTROL STATION COMMONLY DEFINED BY A RECTANGLE SYMBOL.

   A. EXAMPLE CONTROL STATION: SYMBOL "#B", TAGGED "SW-#B", DESCRIPTION "LIGHTING CONTROL STATION".
   B. EXAMPLE PANEL/RACK/CABINET: TAGGED "LCPR#", DESCRIPTION "ROOM BASED LIGHTING CONTROL PANEL/RACK/CABINET.
   C. EXAMPLE CONTROL DESIGNATIONS: a, b, c
   D. LIGHTING CONTROL STATION "#B" a,b CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" AND "b" WITHIN THE SAME SPACE.
   E. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL AND PRE-PROGRAMMED SCENE SELECTION REQUIREMENTS.

LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES:

{L#-##} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E8.0.

{#B} LIGHTING CONTROL STATION. THE "#" INDICATES THE MINIMUM QUANTITY OF ZONES/SCENES AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. THE LIGHTING CONTROL STATION SHALL PROVIDE SEPARATE ON AND OFF AS WELL AS RAISE AND LOWER BUTTON(S). CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING AS DEFINED IN THE LIGHTING SEQUENCE OF OPERATIONS. REFER TO DRAWINGS AND LUMINAIRE SUBSCRIPTS TO DETERMINE IF A ROOM BASED CONTROLLER (a, b, c SUBSCRIPTS) IS REQUIRED.

LIGHTING CONTROL SUBSCRIPTS:
1. LOWER CASE ALPHA SUBSCRIPTS "a, b, c" INDICATE LINE VOLTAGE OR ROOM BASED LIGHTING CONTROL SYSTEMS. REFER TO DRAWINGS TO DETERMINE IF LINE VOLTAGE CONTROL (S, S3, S4, ETC) OR (#B) ROOM BASED CONTROLLER SYSTEM (#B) IS REQUIRED.

REFER TO SHEET E8.0 FOR LUMINAIRE SCHEDULE

LUMINAIRE CIRCUIT AND CONTROL KEY

LUMINAIRE

F1 = FIXTURE TAG
T = CIRCUIT NUMBER
a = SWITCH DESIGNATION
z1=ZONE DESIGNATION
"NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
"SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

LUMINAIRE SHADING KEY

- NORMAL BRANCH LUMINAIRE
- LUMINIARE WITH EMERGENCY BATTERY - NL
- LUMINAIRE WITH EMERGENCY BATTERY - SE

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

ANDERSON R. WILLIS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
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WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

ELECTRICAL LIGHTING COVERSHEET

E0.1

1/29/2025 11:09:02 AM

SYSTEM INPUTS \ SEQUENCE OF OPERATION		PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	## ELECTRIC SPRINKLER BELL SEQUENCE	## SPRINKLER PREACTION ACTIVATION SEQUENCE	## SMOKE DAMPER CONTROL SEQUENCE	## AHU & MECHANICAL FAN SHUTDOWN SEQUENCE	## ELEVATOR RECALL SEQUENCE	## ELEVATOR SHUT DOWN SEQUENCE	## FIREFIGHTER'S CAB VISUAL ALARM SEQUENCE	## DOOR HOLDER SEQUENCE	## POWER-OPERATED FIRE DOORS	## ACCESS CONTROL OVERRIDE SEQUENCE
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY			X													
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				X												
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION.			X													
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X												
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY				X												
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				X												
INITIATING DEVICE FAILURE OR COMMUNICATION ERROR				X												
MANUAL PULL STATION	FT F	X			X	X			X	X				X	X	X
SMOKE DETECTOR	S#/_ S#/_	X			X	X			X	X				X	X	X
HEAT DETECTOR	H#/_ H#/_ H#/_	X			X	X			X	X				X	X	X
SPRINKLER SYSTEM FLOW SWITCH	MM FS	X			X	X	X	X	X	X				X	X	X
SPRINKLER SYSTEM MONITOR SWITCH	MM TS PIV		X													
SPRINKLER SYSTEM CABINET MONITOR	MM TS		X													
FIRE PUMP - RUN	MM		X													
FIRE PUMP - ALTERNATE SOURCE [MANUAL]	MM		X													
FIRE PUMP - PHASE REVERSAL [TROUBLE]	MM			X												
FIRE PUMP - POWER FAILURE [LOW FUEL]	MM		X													
SMOKE DETECTOR FOR HVAC CONTROL	S#/_ S#/_ S	X	X	X	X	X			X	X				X	X	X
SMOKE DETECTOR FOR SMOKE DAMPER CONTROL	FSD	X	X	X	X	X			X	X				X	X	X
SMOKE DETECTORS IN ELEVATOR LOBBIES	SE SE	X			X	X			X	X	X			X	X	X
SMOKE DETECTOR AT DOOR	DH	X			X	X			X	X				X	X	X

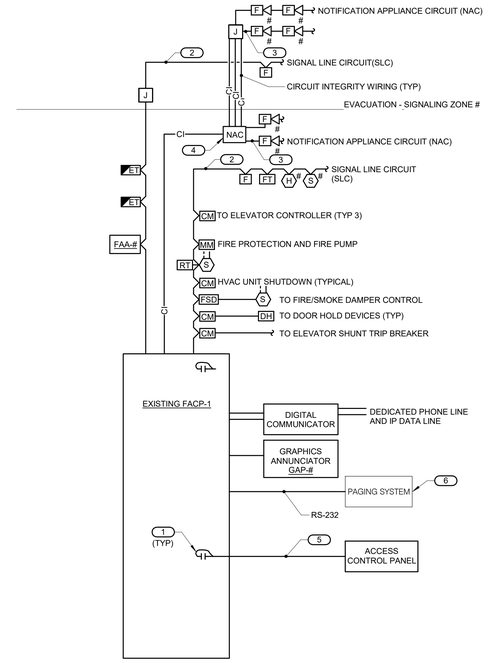
NOTES:

1. ALL SYSTEM EVENTS SHALL BE LOGGED, AND DISPLAYED ON THE ANNUNCIATOR INTERFACE, IF APPLICABLE. SEE SPECIFICATIONS FOR MORE INFORMATION AND DESCRIPTIONS OF SEQUENCES OF OPERATION.
2. RELOCATION OF OCCUPANTS IS THE STANDARD OPERATING PROCEDURE FOR THIS FACILITY IN THE EVENT OF AN ALARM. THEREFORE, ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 FIRE ALARM OPERATION MATRIX
NO SCALE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS			SUBSCRIPTS: TYPE / PROGRAMMING WG = WIRE GUARD IS REQUIRED W = WEATHERPROOF A = ATRIUM E = ELEVATOR RECALL D = HVAC CONTROL DH = DOOR HOLD RELEASE DIPS = DUAL INTERLOCK PREACTION SYS FD = FIRE DOOR RELEASE SW = STAIRWELL # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	FACP-#	28 31 00	FIRE ALARM CONTROL PANEL
	FAA-#	28 31 00	FIRE ALARM ANNUNCIATOR
	NAC-#	28 31 00	NOTIFICATION APPLIANCE CIRCUIT PANEL
S# S#	FA-120	28 31 00	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT BLANK - PHOTOELECTRIC BR = BEAM RECEIVER BT = BEAM TRANSMITTER H = COMBINATION SMOKE / HEAT DETECTOR ION = IONIZATION TYPE SB = SOUNDER BASE
S	FA-122	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR # = EQUIP OR SYSTEM
H# H#	FA-140	28 31 00	FIRE ALARM HEAT DETECTOR BLANK = COMBINATION RATE OF RISE / FIXED TEMP AT = ATTIC (LOCATED IN) F = FIXED TEMP RC = RATE COMPENSATED X - EXPLOSION PROOF
F	FA-130	28 31 00	FIRE ALARM MANUAL PULL STATION
FT	FA-131	28 31 00	FIRE ALARM MANUAL PULL STATION W/ COVER
	FA-200	28 31 00	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT # = CANDELA RATING. CD = CANDELA RATING SELECTED BY NICET DESIGNER
F# F#	FA-263	28 31 00	ELECTRIC BELL FOR SPRINKLER SYSTEM
F# F#	FA-210	28 31 00	AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED M = MINI-HORN
	FA-211	28 31 00	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
S# S#	FA-220	28 31 00	AUDIO (SPEAKER) ALARM DEVICE, CEILING OR WALL MOUNTED
RI	FA-241	28 31 00	FIRE ALARM REMOTE INDICATOR
RT	FA-242	28 31 00	FIRE ALARM REMOTE INDICATOR W/ TEST SWITCH
FS	FA-260	28 31 00	FIRE ALARM FLOW SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS
TS	FA-261	28 31 00	FIRE ALARM TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM BLANK = REFER TO PLANS PIV = POST INDICATOR VALVE
MM	FA-160	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE BLANK = REFER TO PLANS KB = KNOX BOX MONITOR
CM	FA-161	28 31 00	FIRE ALARM ADDRESSABLE CONTROL MODULE BLANK = REFER TO PLANS LC = LIGHTING CONTROL OVERRIDE DH = DOOR HOLD OPEN PD = HOLD OPEN OVERRIDE
DH	FA-271	28 31 00	FIRE ALARM DOOR HOLD DEVICE (BY OTHERS, WIRED BY E.C.) DH - ELECTROMAGNETIC DOOR HOLD DEVICE PD - HOLD OPEN OVERRIDE CONNECTION
DH	FA-270	28 31 00	FIRE ALARM DOOR HOLD DEVICE (BY E.C.)
IM	FA-280	28 31 00	FIRE ALARM ISOLATION MODULE
HD HDS	FA-253	28 31 00	ELEVATOR HOIST WAY DAMPER AND CONTROL SWITCH
EOL	EOL	28 31 00	FIRE ALARM END OF LINE DEVICE, DRAWINGS ONLY
FSD	FA-250	28 31 00	FIRE ALARM SMOKE OR FIRE/SMOKE DAMPER CONTROL WITH DETECTOR, AND ADDRESSABLE MODULE, AND REMOTE INDICATOR (WITH TEST SWITCH WHEN APPLICABLE) # = INDICATES EQUIP OR SYSTEM



2 FIRE ALARM RISER
NO SCALE

NOTES:

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM CONNECTIONS AND SPECIFICALLY DOES NOT INDICATE QUANTITIES, NUMBER OF CIRCUITS REQUIRED OR DISTANCES.
2. THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WIRE SIZES, TYPES AND REQUIREMENTS WITH THE VENDOR PRIOR TO BID. REFER TO SPECIFICATIONS TO DETERMINE CIRCUIT STYLES AND IF CONDUIT IS REQUIRED OR PLENUM RATED CABLE IS ACCEPTABLE.
4. ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ALL NECESSARY RELAYS MAY NOT BE SHOWN ON THIS PLAN, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE PROVIDED BY THE CONTRACTOR.
6. PARTIAL EVACUATION OR RELOCATION OF OCCUPANTS IS THE STANDARD OPERATING PROCEDURE FOR THIS FACILITY IN THE EVENT OF AN ALARM. THEREFORE, ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: (#)

1. REPRESENTATIVE OF PROGRAMMABLE I/O POINTS IN THE PANEL OR A GENERAL SYSTEM TROUBLE/ALARM CONTACT CONNECTED TO THE SYSTEM NOTED. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH INITIATION LOOP AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
3. REFER TO SPECIFICATION FOR REQUIREMENTS OF EACH NOTIFICATION APPLIANCE CIRCUIT AND WIRING STYLE. REFER TO FLOOR PLANS FOR DEVICES AND THEIR LOCATIONS.
4. PROVIDE NOTIFICATION APPLIANCE EXTENDER PANELS AS REQUIRED. DETERMINATION OF NEED TO BE MADE BY FIRE ALARM VENDOR. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND ACCEPTABLE MOUNTING LOCATIONS.
5. REPRESENTS THE EXTENSION OF PROGRAMMABLE RELAYS TO THE ACCESS CONTROL SYSTEM. REFER TO SPECIFICATION SECTION 28 13 00 FOR QUANTITY OF POINTS REQUIRED.
6. THIS CONTRACTOR SHALL PROVIDE AN RS-232 CONNECTION FROM THE FIRE ALARM PANEL TO THE ALPHANUMERIC PAGING SYSTEM. THE FIRE ALARM VENDOR SHALL SUPPLY THE COMMUNICATION PROTOCOL TO THE OWNER. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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PROJECT #24001305.00

ANDERSON R. WILLIAMS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

ELECTRICAL SYSTEMS COVERSHEET

E0.2

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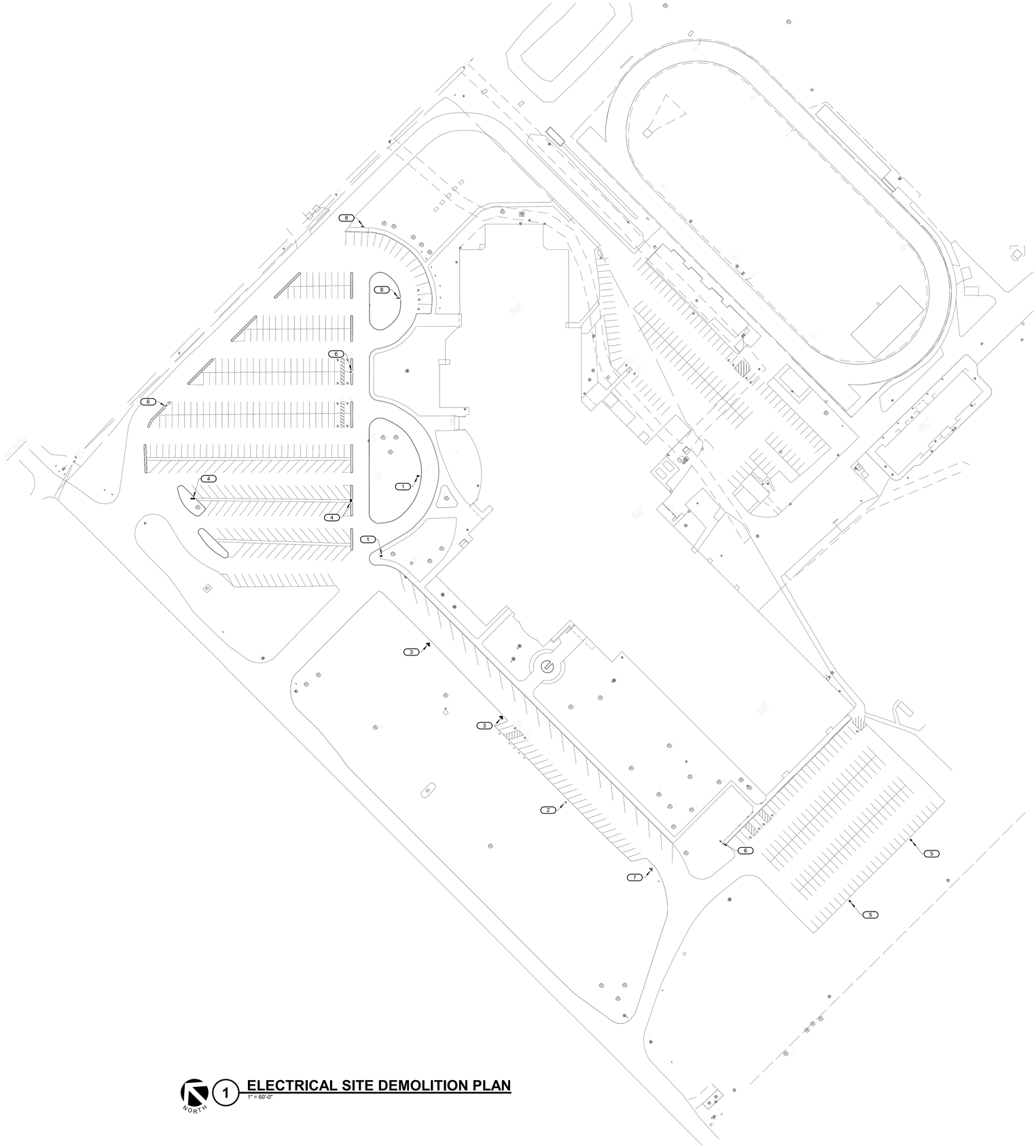


1 ELECTRICAL SITE DEMOLITION PLAN

1" = 60'-0"

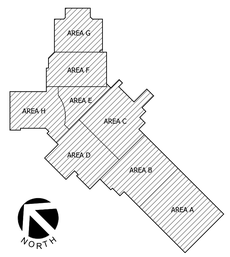
NORTH

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. REMOVE PARKING LOT POLE SINGLE HEAD LIGHT FIXTURE AND RETAIN FOR RELOCATION. REMOVE CONDUIT AND WIRING AS REQUIRED FOR REROUTING CIRCUIT(S) TO NEW LOCATIONS. REFER TO SHEET E2.0 FOR NEW LOCATIONS.
2. EXISTING CONCRETE POLE BASE.
3. REMOVE PARKING LOT POLE THREE HEAD LIGHT FIXTURE AND RETAIN FOR RELOCATION. CONCRETE BASE, CONDUIT AND WIRING TO REMAIN FOR NEW FIXTURE. REFER TO SHEET E2.0.
4. REMOVE PARKING LOT POLE TWO HEAD LIGHT FIXTURE AND RETAIN FOR RELOCATION. REMOVE CONDUIT AND WIRING AS REQUIRED FOR REROUTING CIRCUIT(S) TO NEW LOCATIONS. REFER TO SHEET E2.0 FOR NEW LOCATIONS.
5. REMOVE PARKING LOT POLE SINGLE HEAD LIGHT FIXTURE AND RETAIN LIGHT FIXTURE FOR RELOCATION ON NEW POLE. POLE TO BE DEMOLISHED. REMOVE CONDUIT AND WIRING AS REQUIRED FOR REROUTING OF CIRCUIT(S) TO NEW LOCATIONS. REFER TO SHEET E2.0.
6. EXISTING SINGLE HEAD POLE FIXTURE TO REMAIN.
7. EXISTING THREE HEAD POLE FIXTURE TO REMAIN.
8. EXISTING TWO HEAD POLE FIXTURE TO REMAIN.



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PROFESSIONAL ENGINEER
01.31.25

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ROACHDALE, IN 46172

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CHK	ARW

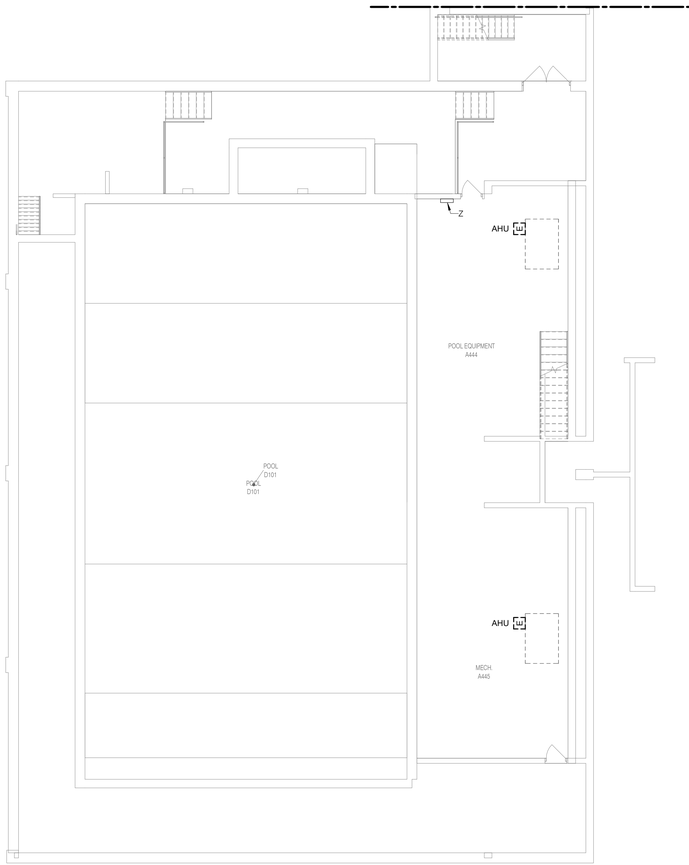
ELECTRICAL SITE DEMOLITION PLAN

E1.0

1/29/2025 11:09:08 AM

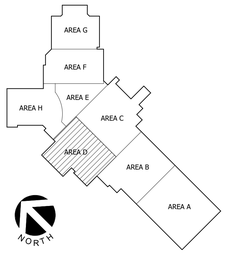
SHEET NOTES:

1. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



NORTH 1 **BASEMENT ELECTRICAL DEMOLITION PLAN - AREA D**

1/8" = 1'-0"



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DWR	Author
CHK	Checker

BASEMENT ELECTRICAL DEMOLITION PLAN - AREA D

E1.0D

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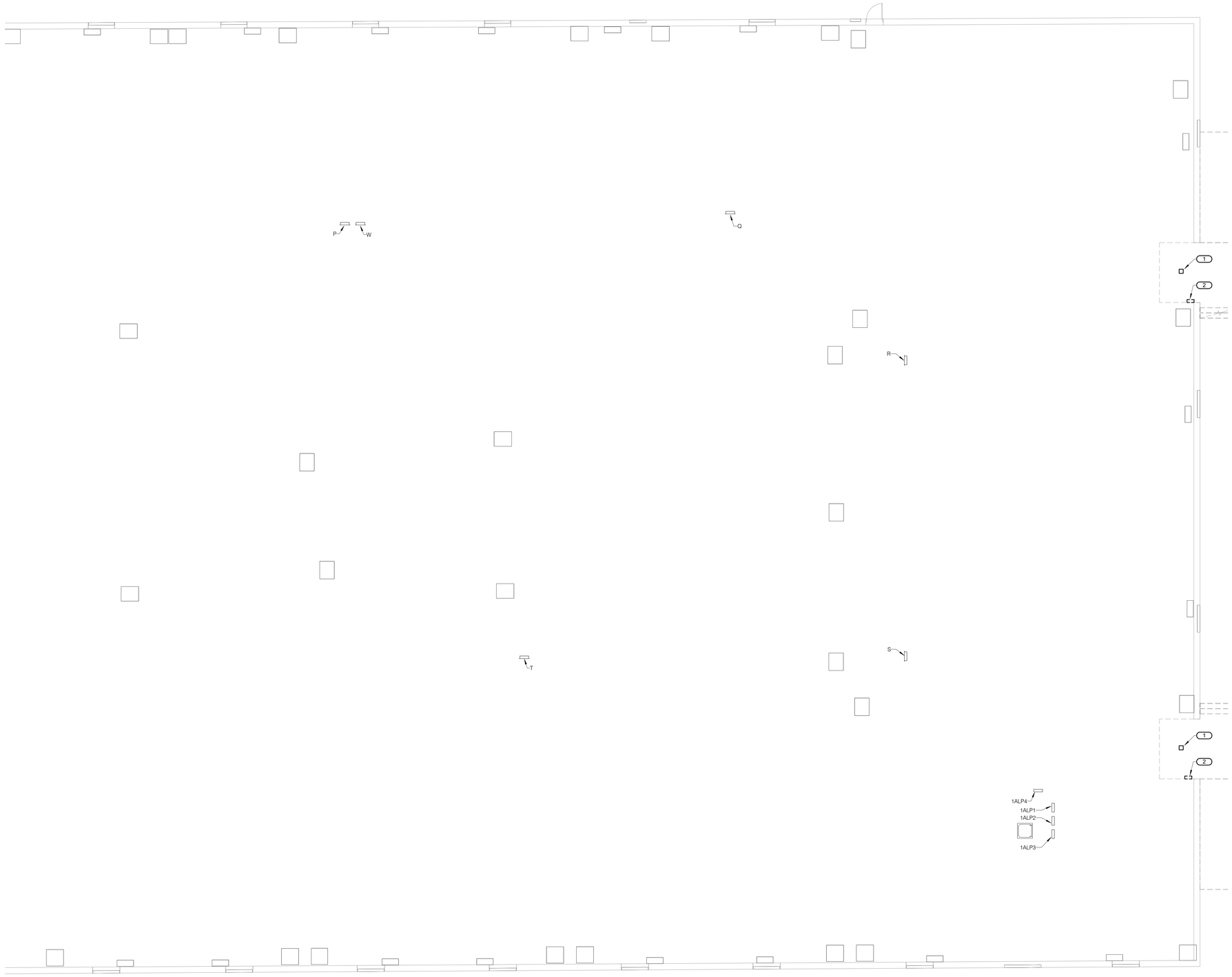
GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

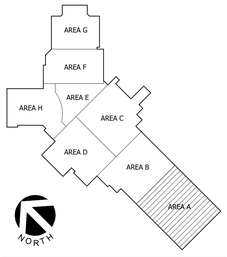
KEYNOTES: (#)

1. REMOVE SURFACE MOUNTED FIXTURE. CONDUIT AND WIRING TO REMAIN FOR CONNECTION TO NEW FIXTURE. REFER TO SHEET E2.1A.
2. REMOVE WALL MOUNTED EMERGENCY LIGHT AND BATTERY. REMOVE CONDUIT AND WIRING BACK TO SOURCE. PATCH WALL TO MATCH EXISTING STRUCTURE.



1 GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A

1/8" = 1'-0"



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CHK	ARW

GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A

E1.1A

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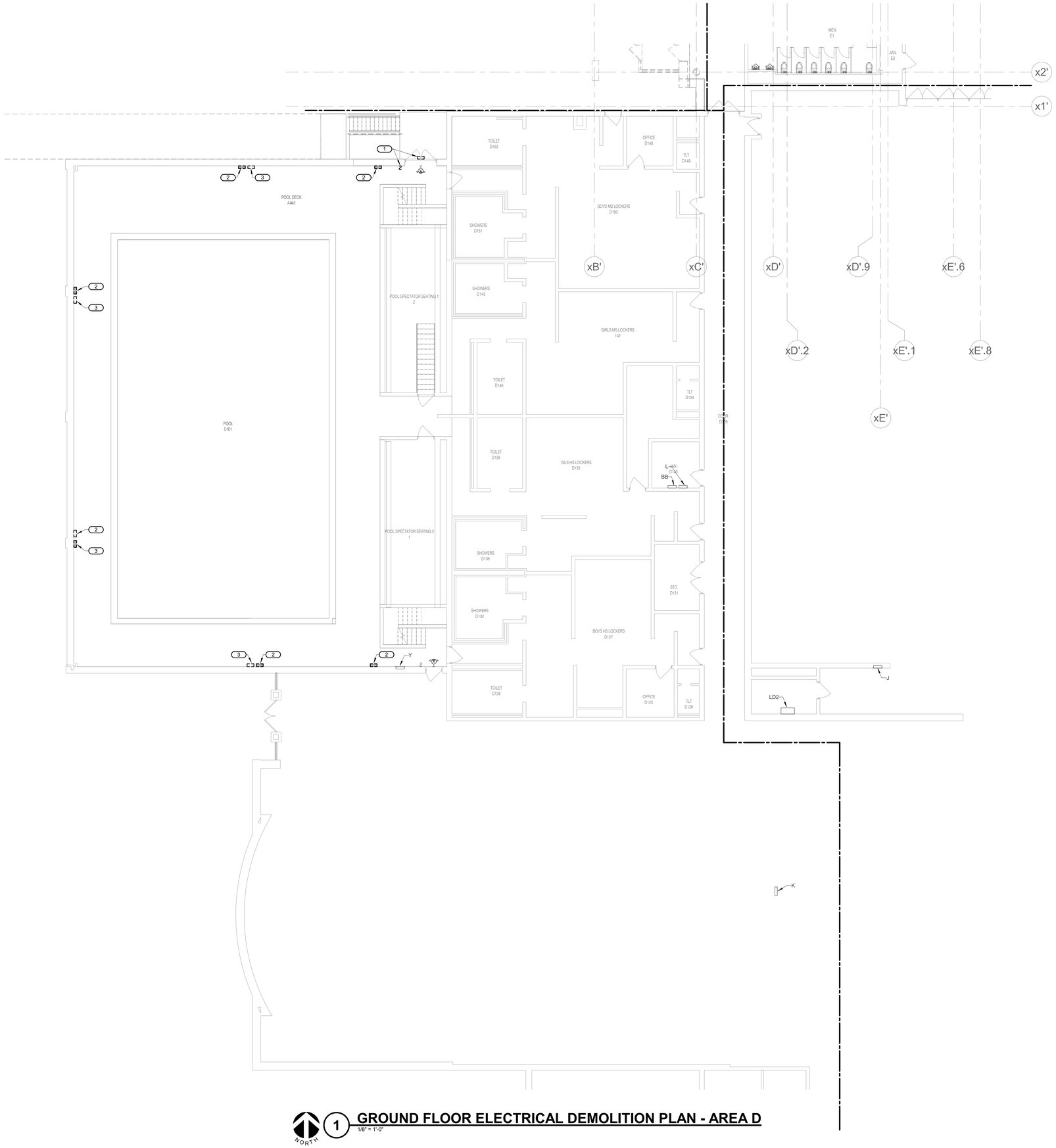


1 GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA D

1/8" = 1'-0"

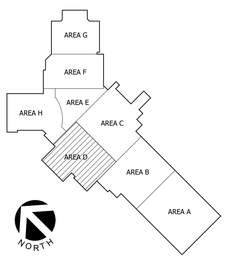
NORTH

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. REMOVE EXTERIOR LIGHT AND CONTROL SWITCH. REMOVE WIRING. PROVIDE BLANK COVERPLATE ON SWITCH BACKBOX.
2. REMOVE EMERGENCY BATTERY WALL PACK. REMOVE CONDUIT AND WIRING BACK TO SOURCE.
3. REMOVE LIGHT SCONCE. REMOVE CONDUIT AND WIRING BACK TO SOURCE.



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GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA D

E1.1D

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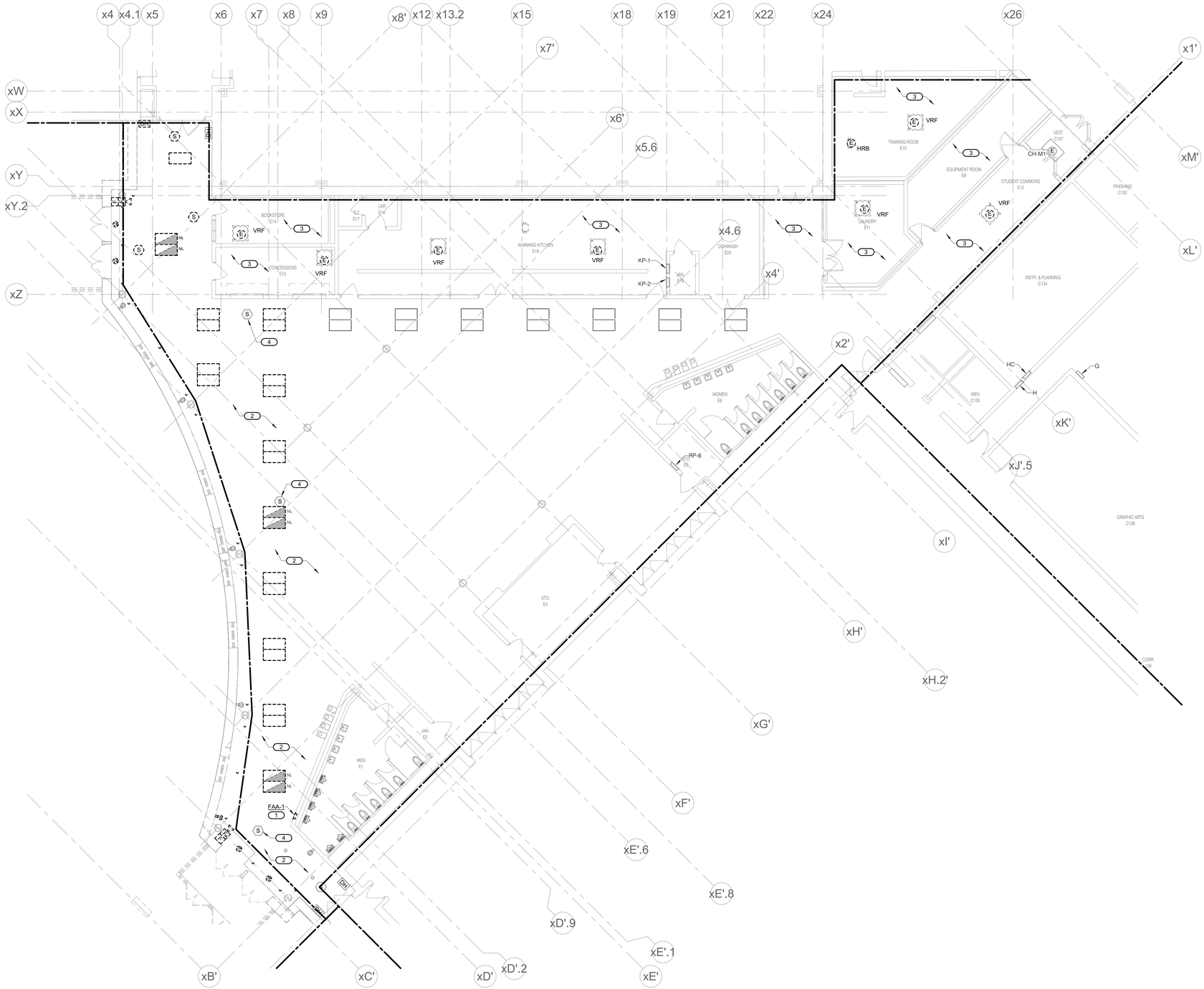


1 GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA E

1/8" = 1'-0"

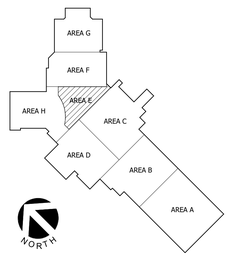
NORTH

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. REMOVE FIRE ALARM ANNUNCIATOR PANEL. RETAIN FOR RELOCATION. REFER TO SHEET E4.1H.
2. REMOVE AND RETAIN LIGHT FIXTURES AND SMOKE DETECTORS AS REQUIRED FOR TEMPORARY REMOVAL OF CEILING. CIRCUITS AND CONTROLS TO REMAIN FOR REINSTALLATION. REFER TO SHEET E2.1H AND ARCHITECTURAL REFLECTED CEILING PLANS FOR MORE INFORMATION.
3. REMOVE ALL LIGHT FIXTURES WHERE REQUIRED FOR DEMOLITION OF MECHANICAL SYSTEMS ABOVE CEILINGS. RETAIN LIGHT FIXTURES FOR REINSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR AND REFLECTED CEILING PLANS.
4. TEMPORARILY SUSPEND SMOKE DETECTOR FOR REMOVAL OF CEILING. PLACE DETECTOR BACK IN TILE AFTER NEW CEILING IS INSTALLED.



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No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
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CHK	ARW

GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA E

E1.1E

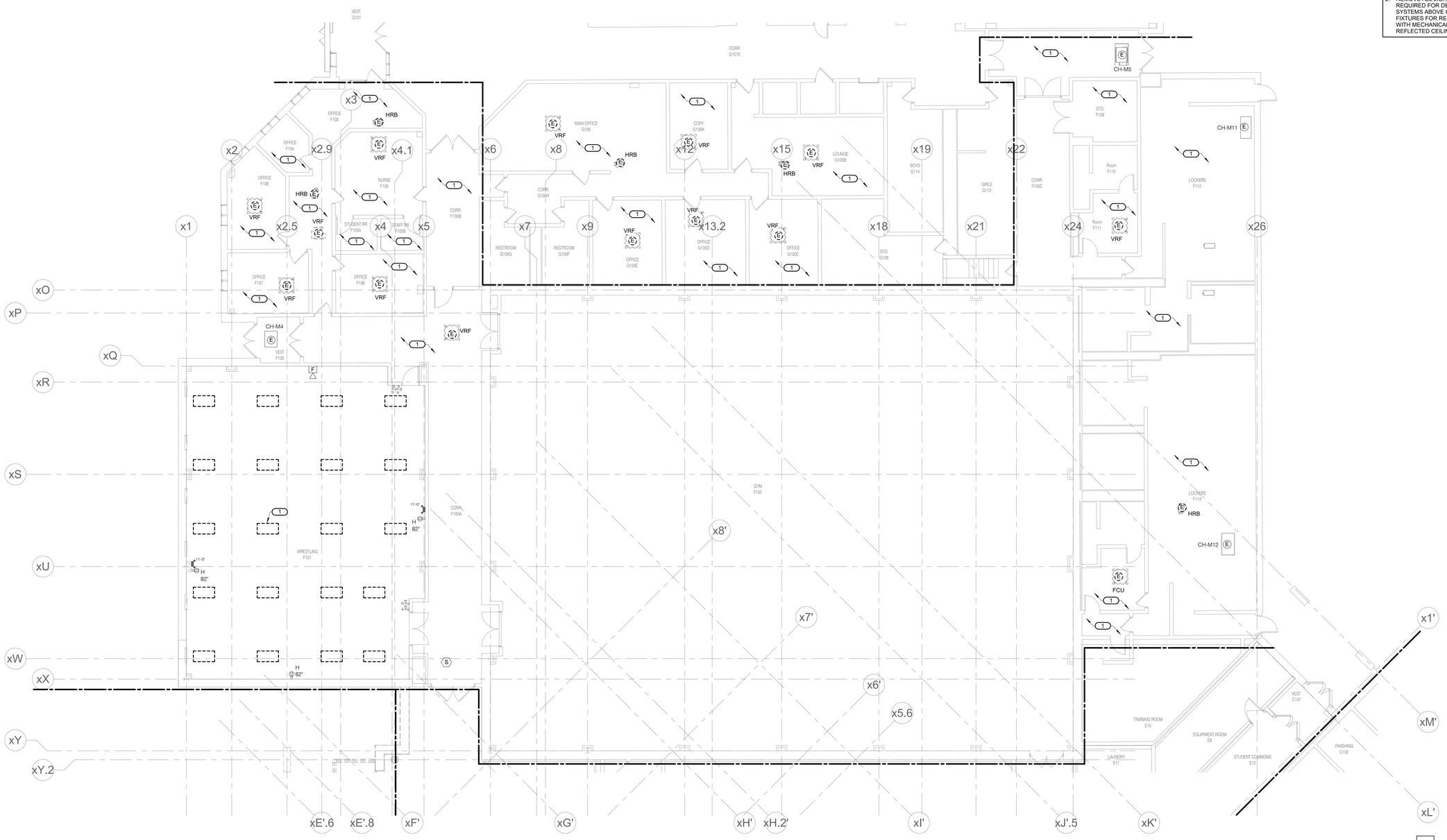
1/29/2025 11:09:19 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

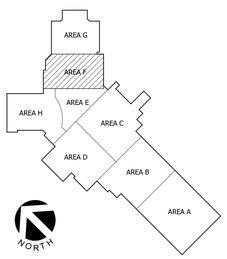
KEYNOTES: (#)

1. REMOVE FIXTURE. REMOVE CONDUIT AND WIRING BACK TO ROOM ENTRANCE FOR REROUTING TO NEW FIXTURES IN OPEN TO STRUCTURE CEILING. TYPICAL OF ALL LIGHTING IN THIS SPACE. REFER TO SHEET E2.1F.
2. REMOVE ALL LIGHT FIXTURES WHERE REQUIRED FOR DEMOLITION OF MECHANICAL SYSTEMS ABOVE CEILINGS. RETAIN LIGHT FIXTURES FOR REINSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR AND REFLECTED CEILING PLANS.



1 GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA F

1/8" = 1'-0"



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CHK	ARW

GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA F

E1.1F

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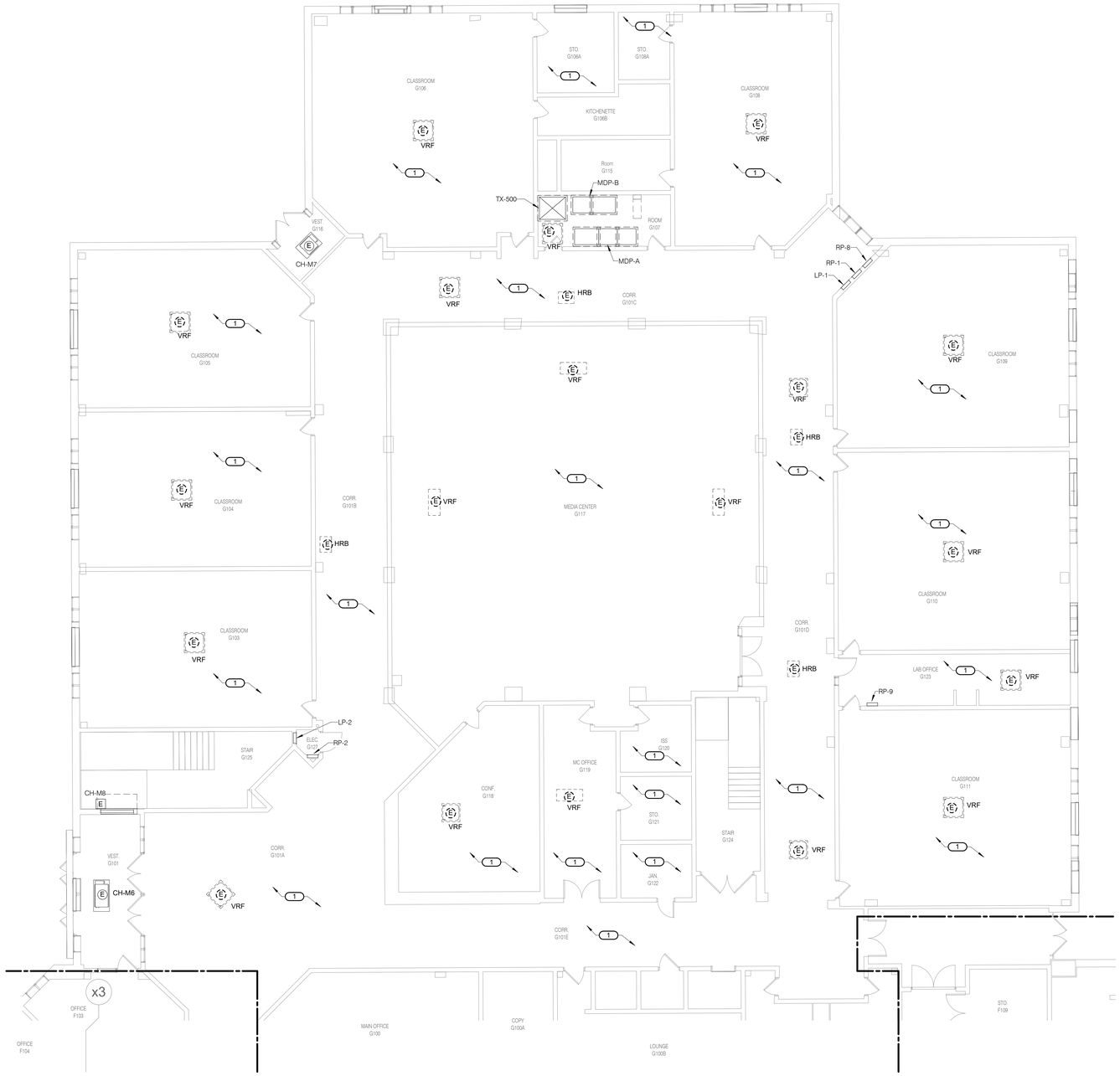
GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

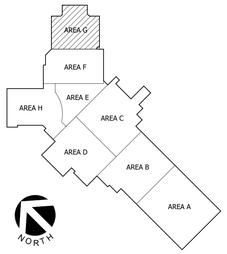
KEYNOTES: (#)

1. REMOVE ALL LIGHT FIXTURES WHERE REQUIRED FOR DEMOLITION OF MECHANICAL SYSTEMS ABOVE CEILINGS. RETAIN LIGHT FIXTURES FOR REINSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR AND REFLECTED CEILING PLANS.



1 GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA G

1/8" = 1'-0"



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PROJECT #24001305.00

ANDERSON R. WILLIS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

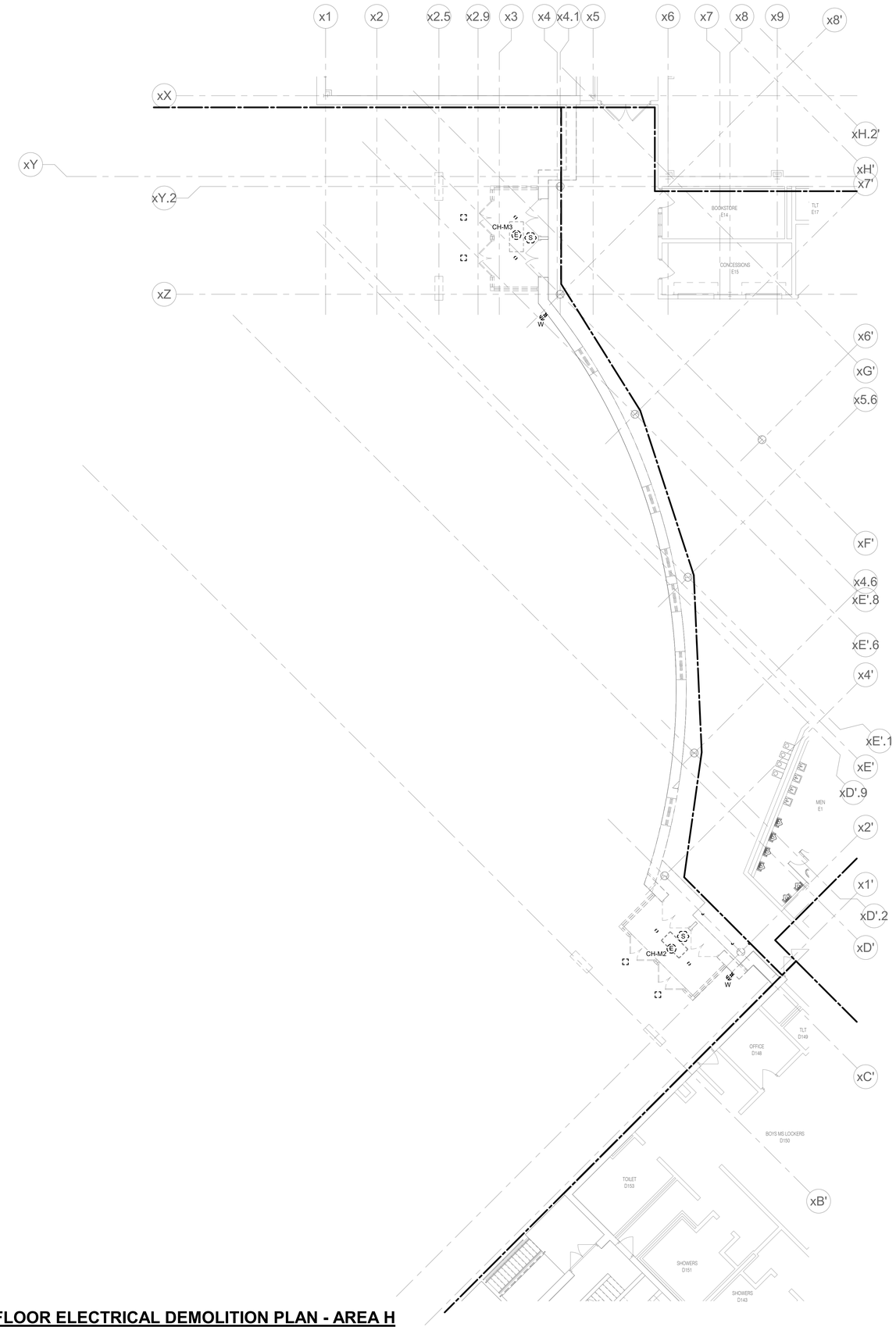
GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA G

E1.1G

1/29/2025 11:09:26 AM

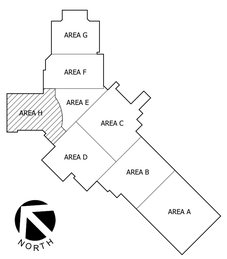
GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 **GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA H**

1/8" = 1'-0"



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01.31.25

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CHK	ARW

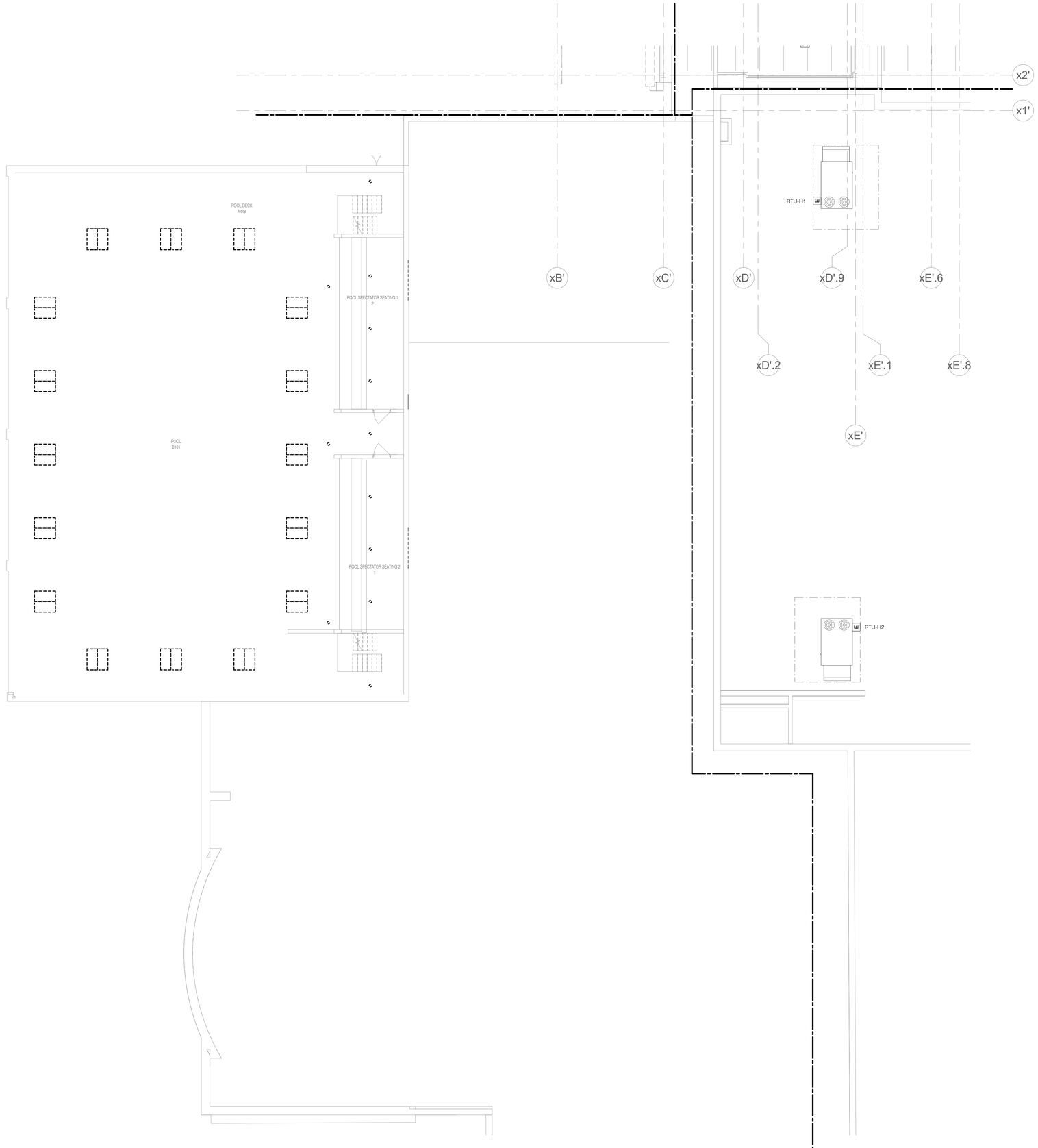
GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA H

E1.1H

1/29/2025 11:09:29 AM

GENERAL NOTES:

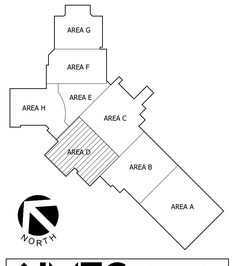
A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 **POOL MEZZANINE ELECTRICAL DEMOLITION PLAN - AREA D**

1/8" = 1'-0"

NORTH



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DWR	JHN
CHK	ARW

POOL MEZZANINE ELECTRICAL DEMOLITION PLAN - AREA D

E1.2D

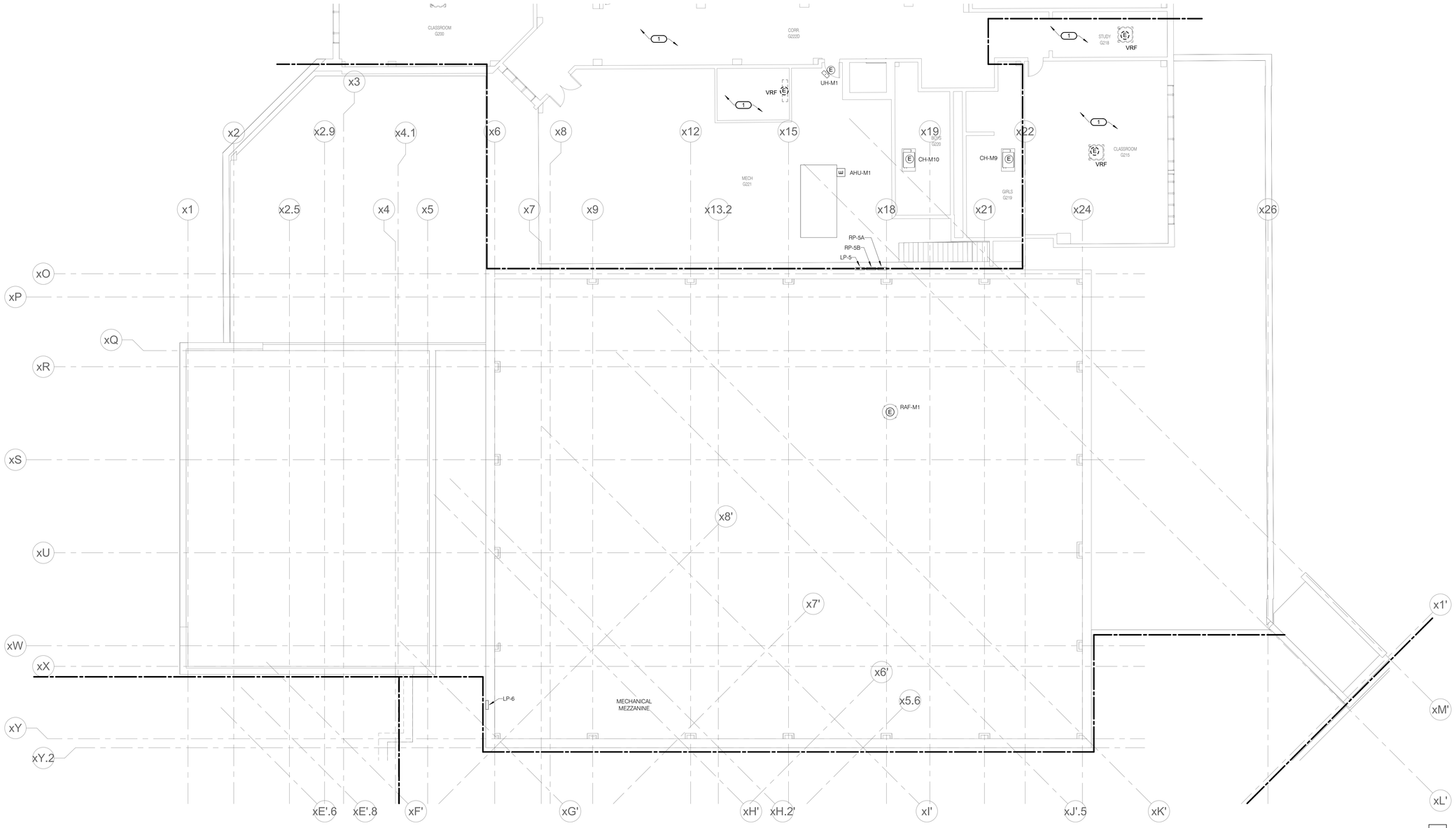
1/29/2025 11:09:31 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

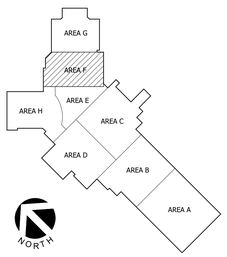
KEYNOTES: (#)

1. REMOVE ALL LIGHT FIXTURES WHERE REQUIRED FOR DEMOLITION OF MECHANICAL SYSTEMS ABOVE CEILINGS. RETAIN LIGHT FIXTURES FOR REINSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR AND REFLECTED CEILING PLANS.



1 UPPER FLOOR ELECTRICAL DEMOLITION PLAN - AREA F

1/8" = 1'-0"



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CHK	ARW

UPPER FLOOR ELECTRICAL DEMOLITION PLAN - AREA F

E1.3F

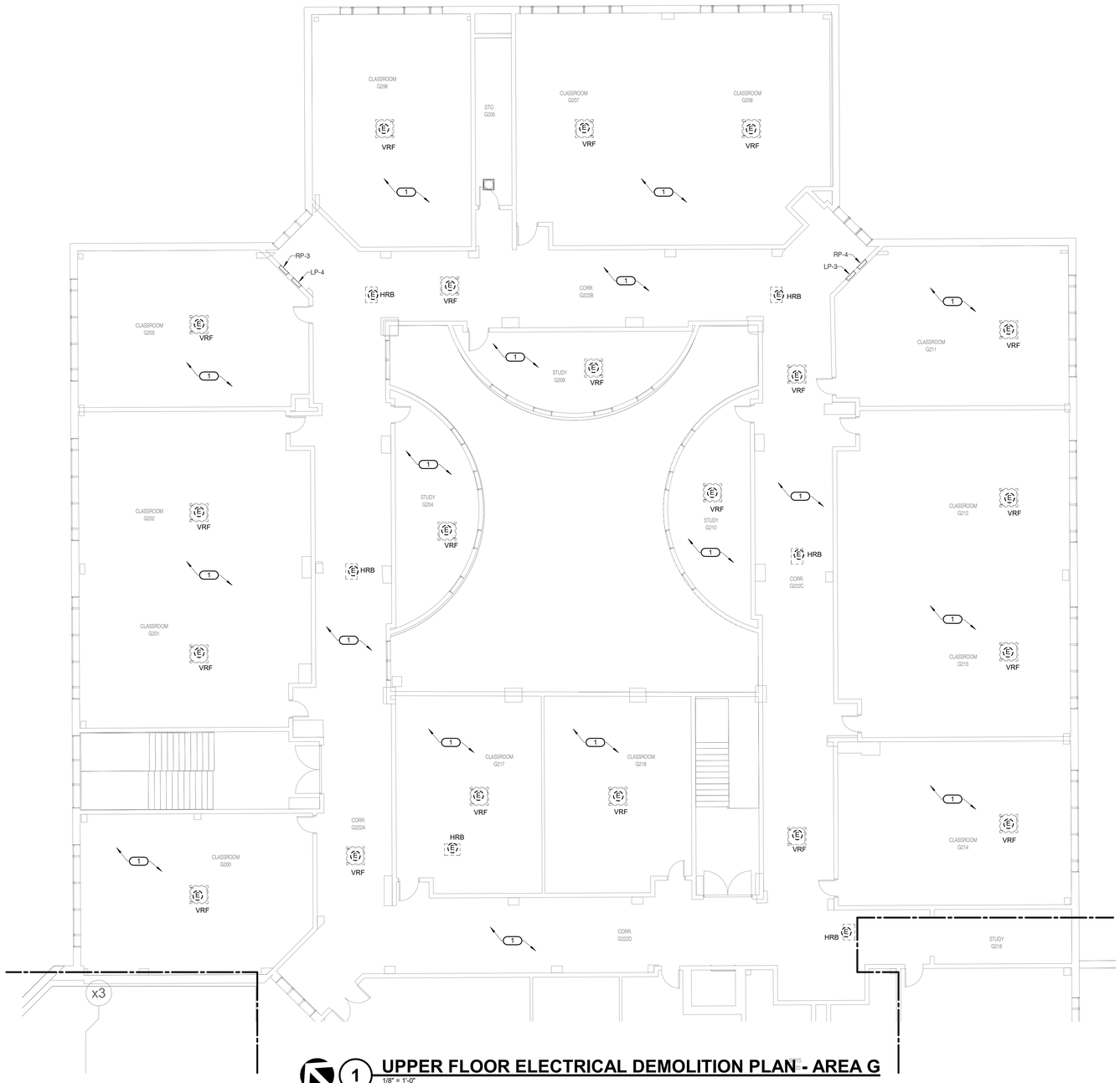
1/29/2025 11:09:34 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

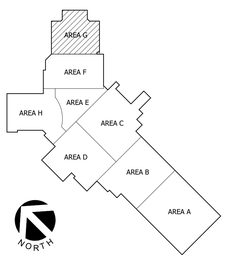
1. REMOVE ALL LIGHT FIXTURES WHERE REQUIRED FOR DEMOLITION OF MECHANICAL SYSTEMS ABOVE CEILINGS. RETAIN LIGHT FIXTURES FOR REINSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR AND REFLECTED CEILING PLANS.



1 UPPER FLOOR ELECTRICAL DEMOLITION PLAN - AREA G

1/8" = 1'-0"

NORTH



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CHK	ARW

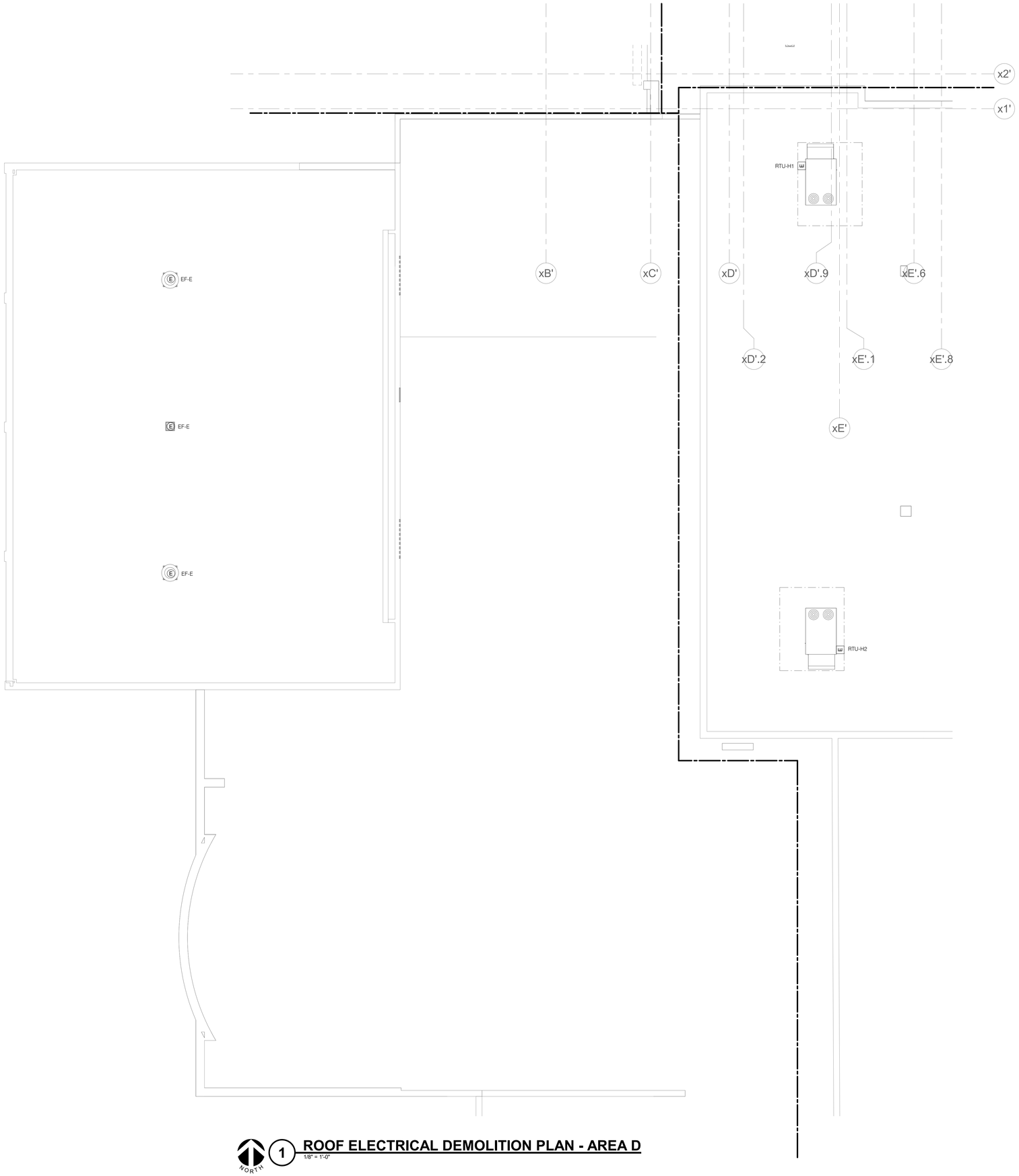
UPPER FLOOR ELECTRICAL DEMOLITION PLAN - AREA G

E1.3G

1/29/2025 11:09:36 AM

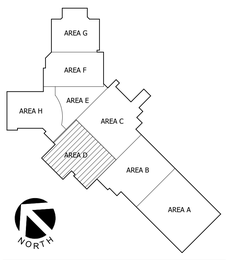
GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 **ROOF ELECTRICAL DEMOLITION PLAN - AREA D**

1/8" = 1'-0"



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REVISIONS

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WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
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CHK	ARW

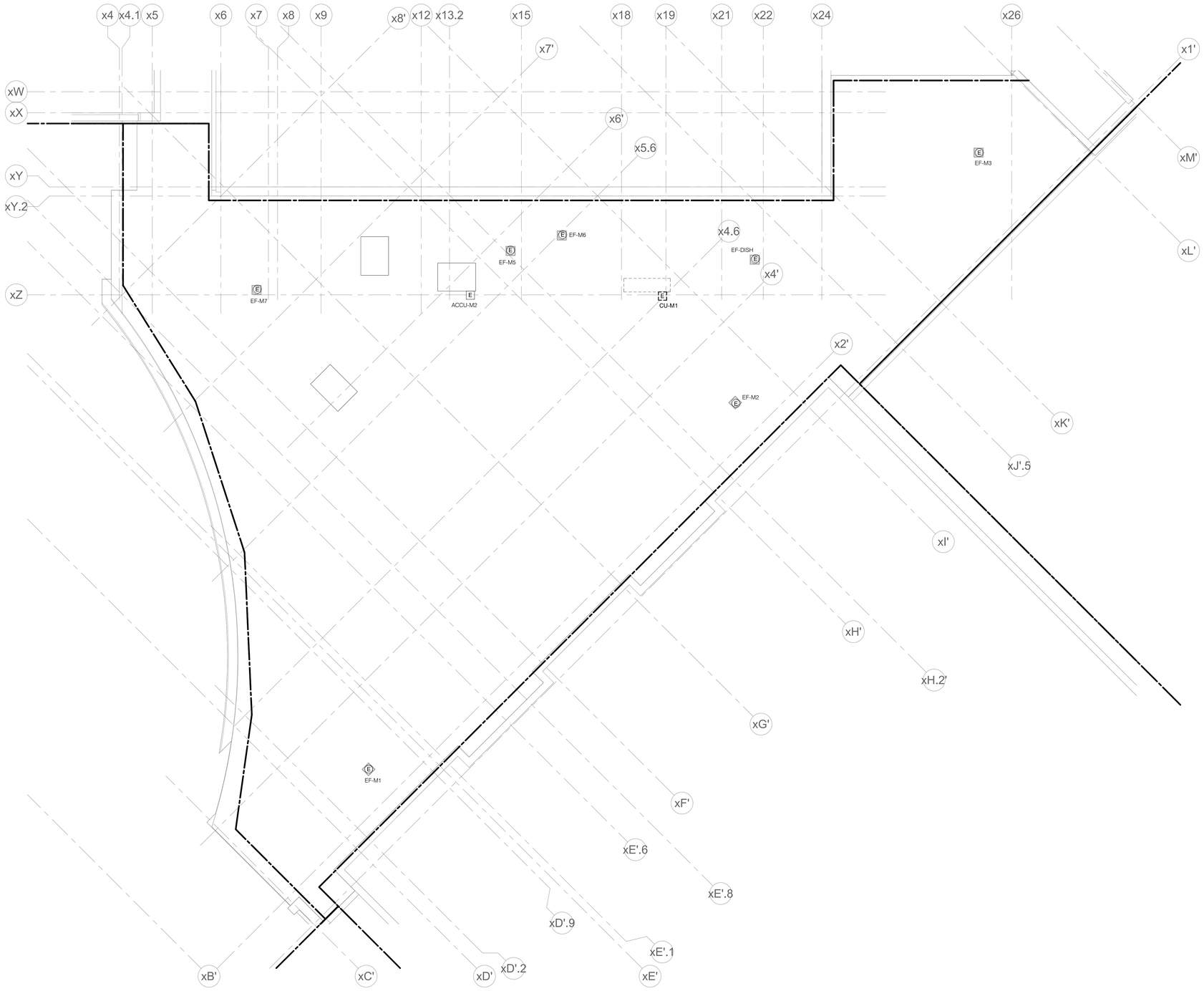
ROOF ELECTRICAL DEMOLITION PLAN - AREA D

E1.4D

1/29/2025 11:09:39 AM

GENERAL NOTES:

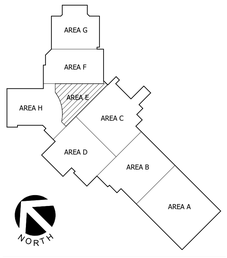
A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



NORTH

1 ROOF ELECTRICAL DEMOLITION PLAN - AREA E

1/8" = 1'-0"



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ANDERSON R. WILLIS JR. REGISTERED No. PE11800750 STATE OF INDIANA PROFESSIONAL ENGINEER

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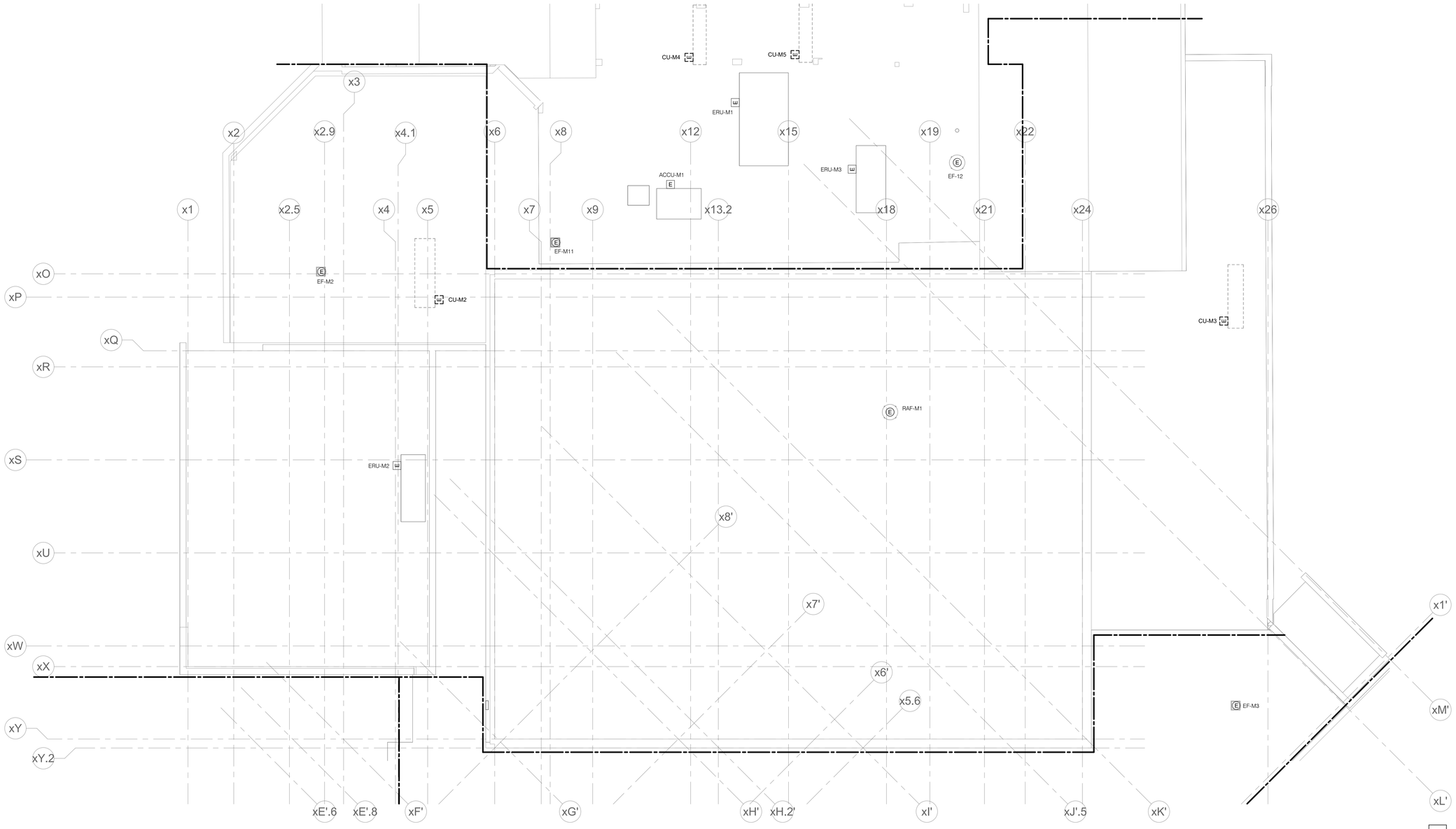
ROOF ELECTRICAL DEMOLITION PLAN - AREA E

E1.4E

1/29/2025 11:09:41 AM

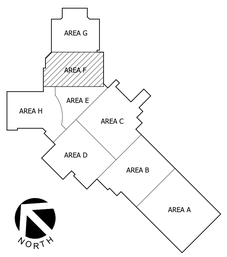
GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 ROOF ELECTRICAL DEMOLITION PLAN - AREA F

1/8" = 1'-0"



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ROOF ELECTRICAL DEMOLITION PLAN - AREA F

E1.4F

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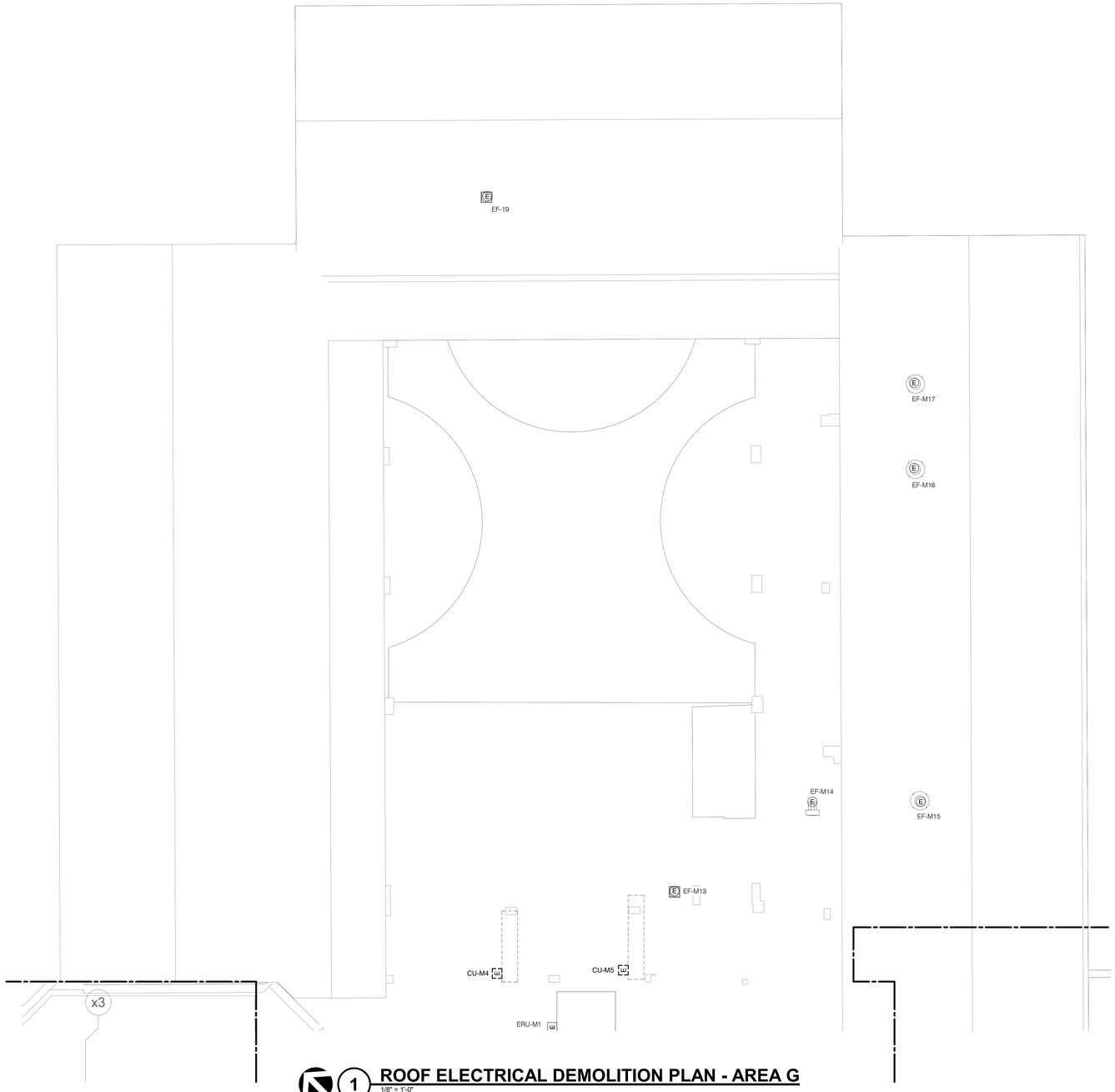
GENERAL NOTES:

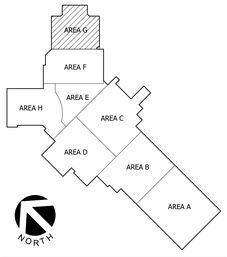
A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 ROOF ELECTRICAL DEMOLITION PLAN - AREA G

1/8" = 1'-0"

NORTH



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CHK	ARW

ROOF ELECTRICAL DEMOLITION PLAN - AREA G

E1.4G

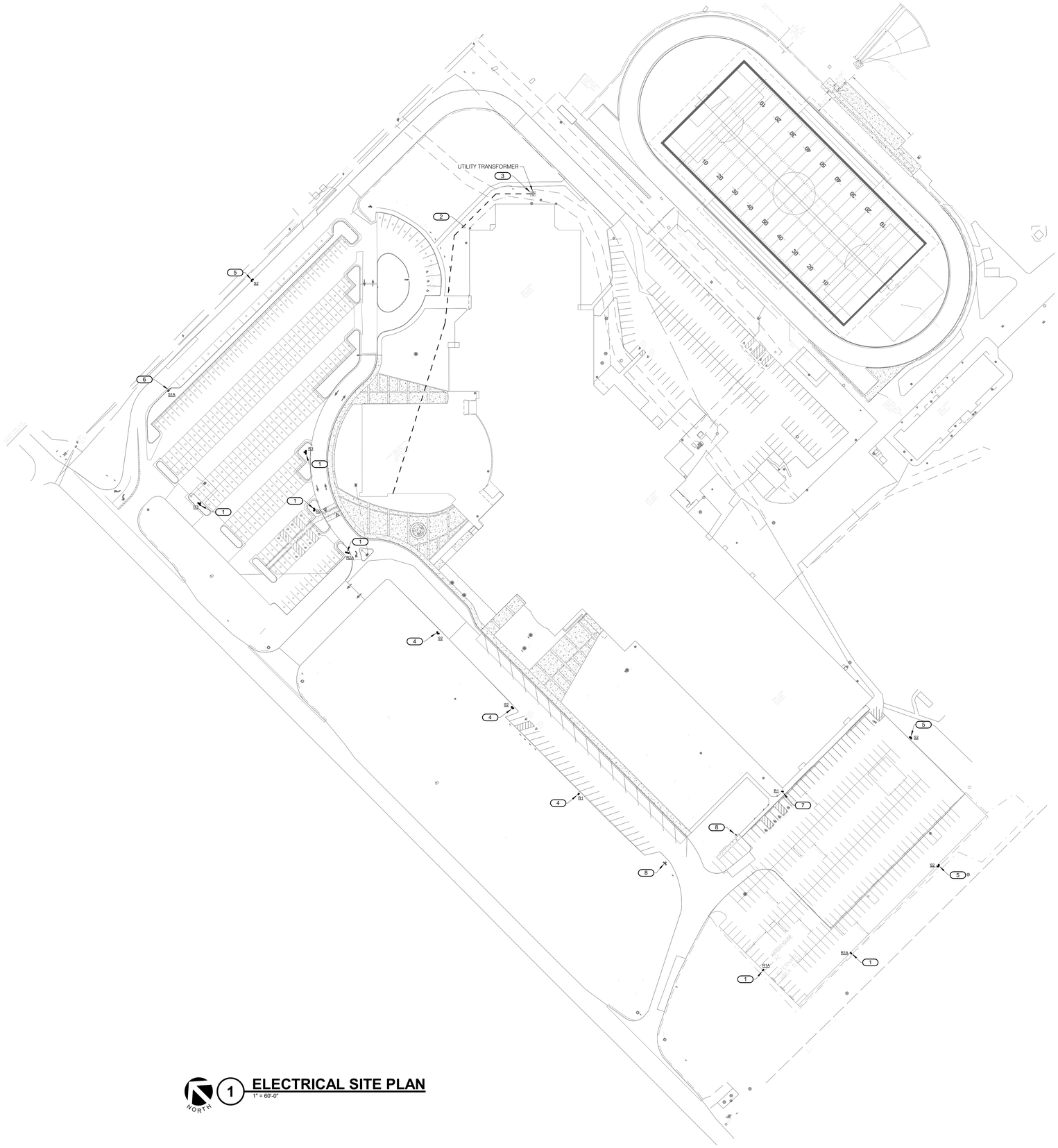
1/29/2025 11:09:46 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

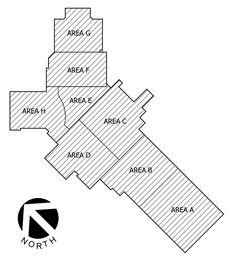
KEYNOTES: (#)

1. RELOCATE POLE FIXTURE WITH NEW CONCRETE BASE. EXTEND CIRCUIT AS REQUIRED FROM DEMOLISHED LOCATIONS. REFER TO DETAIL 5/E6.1 FOR BASE.
2. CONDUIT AND WIRING ROUTE BETWEEN UTILITY TRANSFORMER AND FIRE PUMP. REFER TO SHEET E3.1H FOR ADDITIONAL INFORMATION.
3. COORDINATE WITH DUKE ENERGY FOR CONNECTION TO EXISTING UTILITY TRANSFORMER.
4. MOUNT RELOCATED POLE AND LIGHT HEAD ON EXISTING CONCRETE BASE. CONNECT TO EXISTING CIRCUIT.
5. MOUNT NEW POLE ON NEW CONCRETE BASE. EXTEND EXISTING LIGHT POLE CIRCUIT IN AREA TO THIS LOCATION. REFER TO DETAIL 5/E6.1 FOR BASE.
6. MOUNT NEW LIGHT HEAD ON EXISTING POLE AT 180 DEGREES FROM EXISTING HEAD. CONNECT TO EXISTING CIRCUIT AT POLE.
7. MOUNT RELOCATED POLE AND LIGHT HEAD(S) ON NEW CONCRETE BASE. EXTEND EXISTING LIGHT POLE CIRCUIT IN AREA TO THIS LOCATION. REFER TO DETAIL 5/E6.1 FOR BASE.
8. EXISTING POLE FIXTURE.



1 ELECTRICAL SITE PLAN

1" = 60'-0"



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WILLIAMS ARCHITECTS

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CHK	ARW

ELECTRICAL SITE PLAN

E2.0

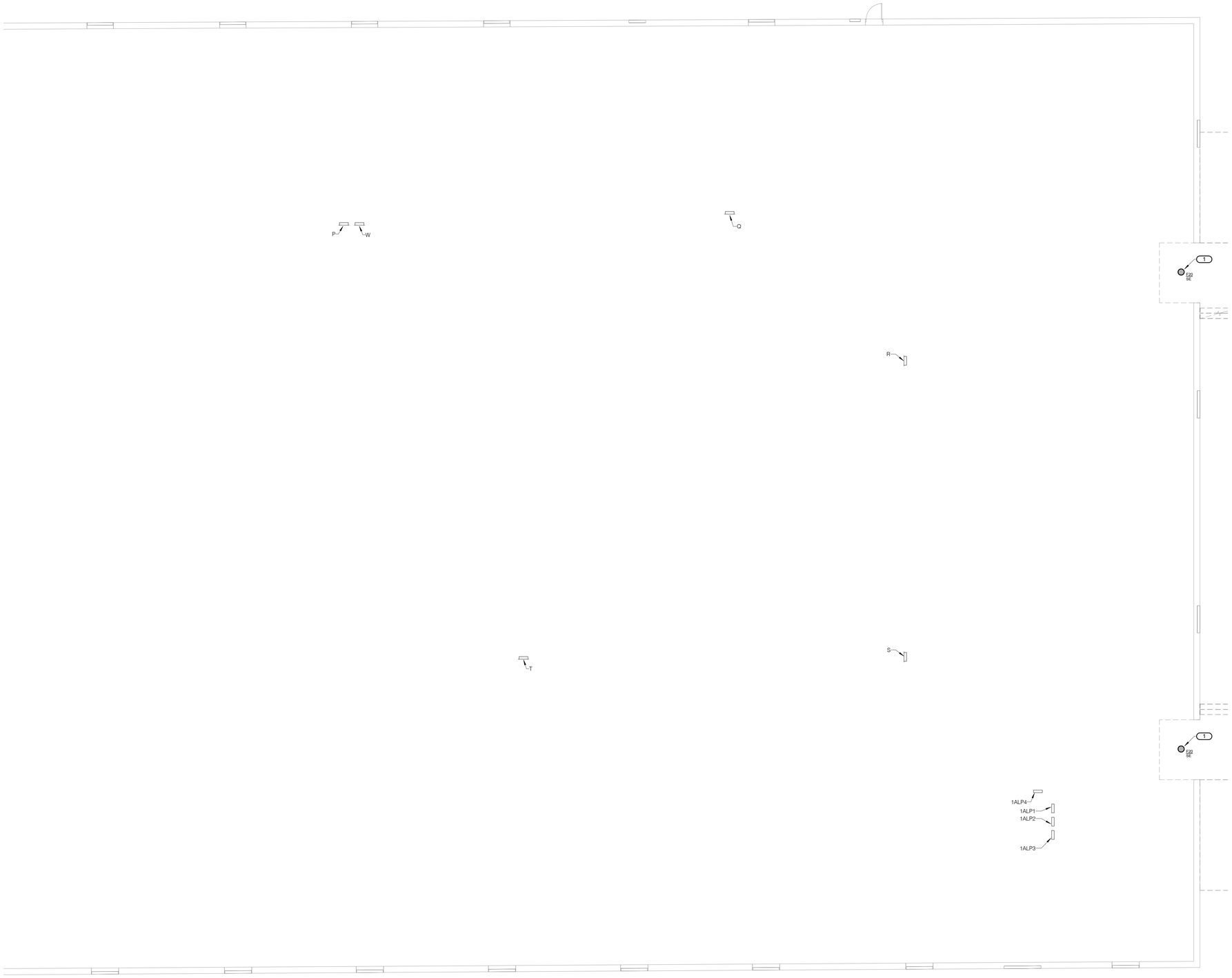
1/29/2025 11:09:46 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

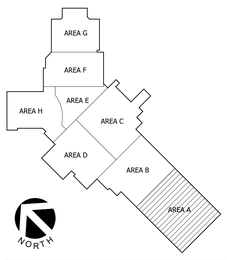
KEYNOTES: (#)

1. CONNECT FIXTURE TO EXISTING CIRCUIT AND CONTROL FROM DEMOLISHED FIXTURE.



1 GROUND FLOOR LIGHTING PLAN - AREA A

1/8" = 1'-0"



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PROJECT #24001305.00

ANDERSON R. WILLIAMS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

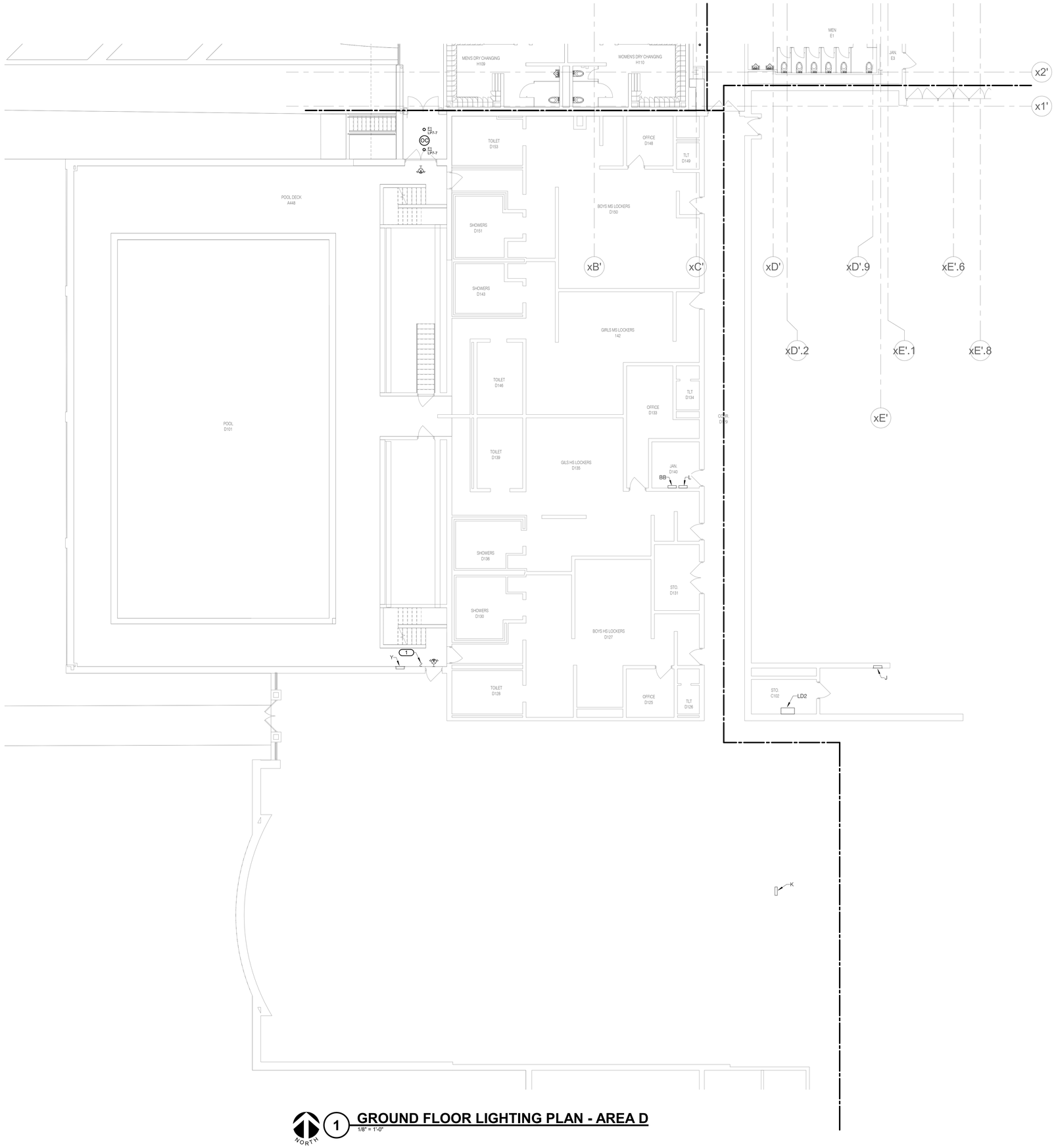
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

GROUND FLOOR LIGHTING PLAN - AREA A

E2.1A

1/29/2025 11:09:50 AM



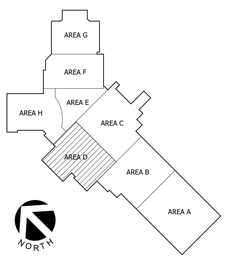
1 GROUND FLOOR LIGHTING PLAN - AREA D
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. EXISTING LIGHT SWITCH TO REMAIN FOR CONTROL OF NEW LIGHTING. REFER TO SHEET E2.2D FOR NEW SUSPENDED LIGHTING IN SPACE. PROVIDE A SIX CIRCUIT CONTACTOR TO CONTROL LIGHTING.



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CHK	ARW

GROUND FLOOR LIGHTING PLAN - AREA D

E2.1D

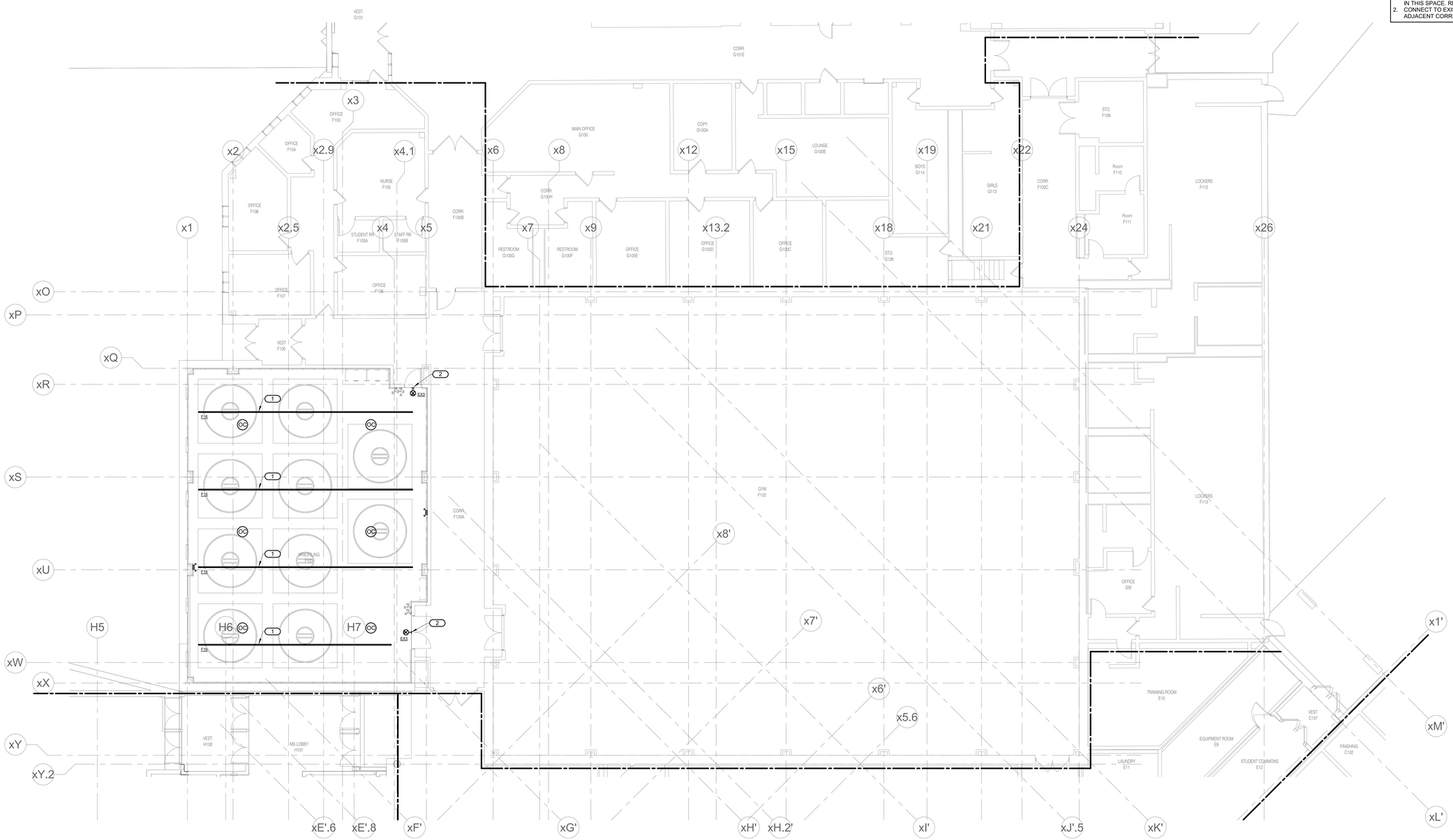
1/29/2025 11:09:53 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

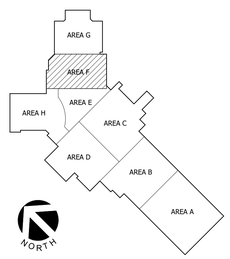
KEYNOTES: (#)

1. EXTEND EXISTING LIGHTING CIRCUIT IN SPACE FROM DEMOLISHED LIGHTING. INTERCEPT SWITCH CONTROLS AND WIRE THROUGH CEILING OCCUPANCY SENSOR. SUSPEND FIXTURE 11'-6" AFF. TYPICAL OF ALL LIGHTING IN THIS SPACE. REFER TO SHEET E1.1F.
2. CONNECT TO EXISTING EXIT LIGHT CIRCUIT IN ADJACENT CORRIDOR.



1 GROUND FLOOR LIGHTING PLAN - AREA F

1/8" = 1'-0"



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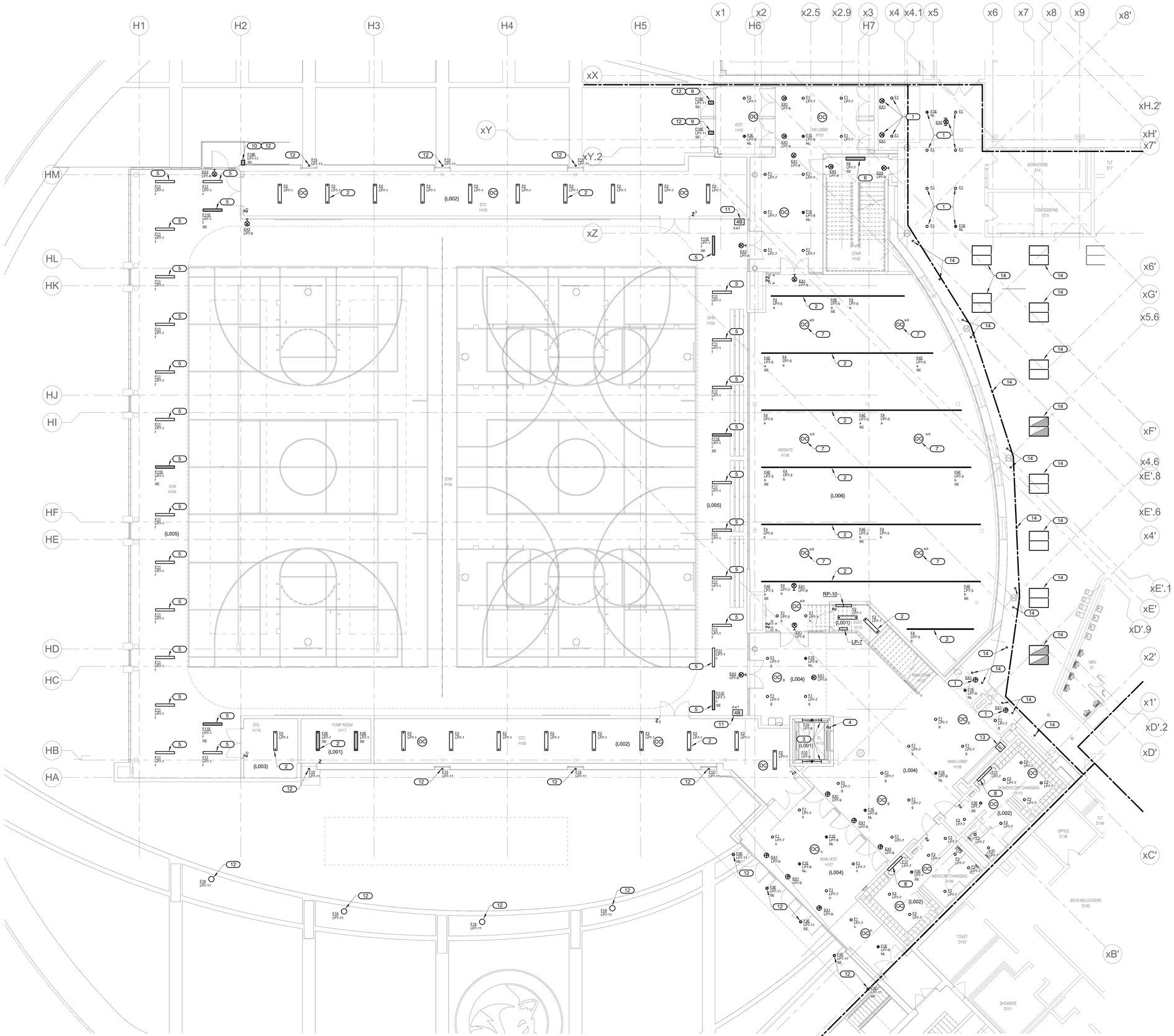
CHK	ARW

GROUND FLOOR LIGHTING PLAN - AREA F

E2.1F

1/29/2025 11:09:55 AM



1 GROUND FLOOR LIGHTING PLAN - AREA H

1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS IN SPACE FROM DEMOLISHED FIXTURES.
2. SUSPEND FIXTURE +10'-0" AFF. TYPICAL OF ALL FIXTURES IN ROOM.
3. MOUNT LIGHTS +42" AFF OF PIT FLOOR. COORDINATE MOUNTING LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE QUANTITY AS REQUIRED TO MEET 10FC AT PIT FLOOR.
4. MOUNT LIGHT SWITCH +54" AFF OF PIT FLOOR. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
5. MOUNT TIGHT TO UNDERSIDE OF RUNNING TRACK.
6. WALL MOUNT +8'-0" AFF.
7. MOUNT SENSOR IN SUSPENDED CEILING CLOUD.
8. WALL MOUNT CENTERED BETWEEN TOP OF MIRROR AND CEILING.
9. MOUNT CENTERED IN MULLION BETWEEN TOP OF DOORS AND BOTTOM OF WINDOWS.
10. MOUNT +8'-6" AFF TO CENTER OF FIXTURE.
11. PROVIDE LOCKABLE COVER OVER SWITCH.
12. CONTROL FIXTURE WITH PHOTOCELL. MOUNTED ON ROOF. REFER TO SHEET E2.3H FOR PHOTOCELL LOCATION.
13. CONNECTION TO LIGHT FIXTURE PROVIDED BY DISPLAY CASE MANUFACTURER. CONNECT TO LOBBY LIGHT CIRCUIT AND CONTROL.
14. INSTALL EXISTING FIXTURE, TEMPORARILY REMOVED FOR CEILING REMOVAL, AND CONNECT TO EXISTING CIRCUIT AND CONTROLS TO MATCH EXISTING CONDITIONS. REFER TO SHEET E1.1E FOR MORE INFORMATION.

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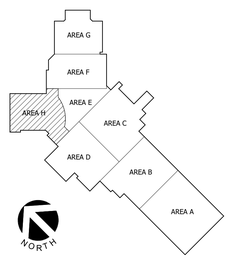

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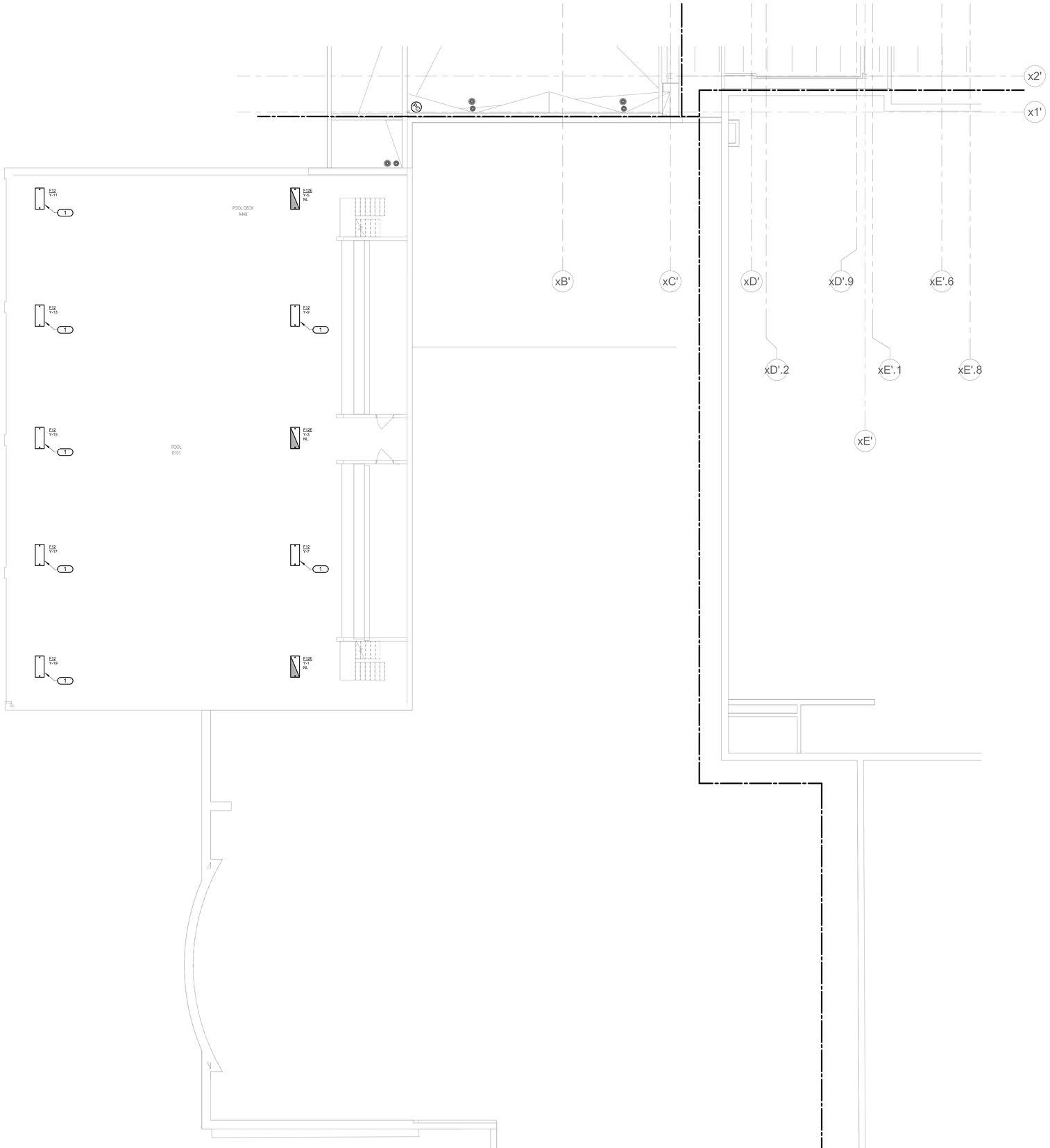
CHK	ARW

GROUND FLOOR LIGHTING PLAN - AREA H

E2.1H

1/29/2025 11:10:01 AM



1 **POOL MEZZANINE LIGHTING PLAN - AREA D**

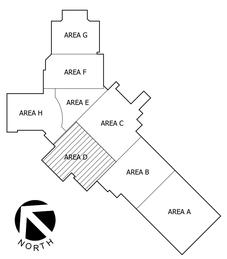
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. SUSPEND FIXTURE +15'-0" AFF OF POOL DECK. CONNECT TO EXISTING SWITCH VIA CONTACTOR AT SOUTH DOOR ENTRANCE. REFER TO SHEET E2.1D FOR SWITCH LOCATION.



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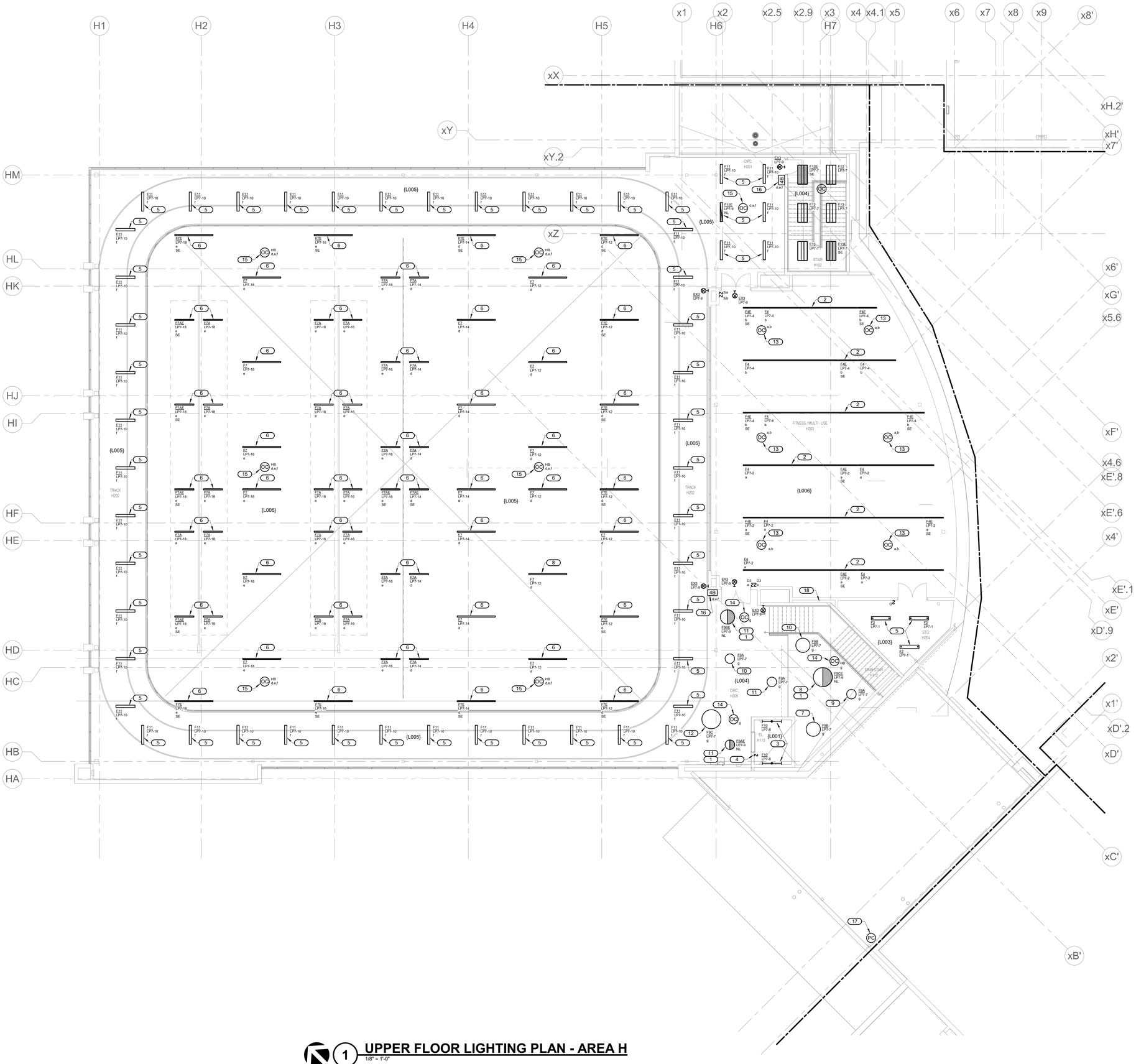
POOL MEZZANINE LIGHTING PLAN - AREA D

E2.2D

1/29/2025 11:10:03 AM

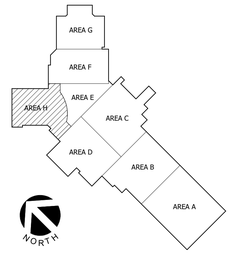


GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. MOUNT REMOTE EMERGENCY BATTERY IN STORAGE ROOM H204.
2. SUSPEND FIXTURE +10'-0" AFF. TYPICAL OF ALL FIXTURES IN ROOM.
3. MOUNT LIGHTS AT TOP OF ELEVATOR SHAFT. COORDINATE MOUNTING LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
4. MOUNT LIGHT SWITCH +48" AFF OF UPPER FLOOR. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
5. SUSPEND FIXTURE +9'-0" AFF.
6. MOUNT FIXTURE TO BOTTOM OF STRUCTURAL TRUSS.
7. SUSPEND +7'-0" AFF OF SECOND LEVEL.
8. SUSPEND +8'-0" AFF OF SECOND LEVEL.
9. SUSPEND +9'-0" AFF OF SECOND LEVEL.
10. SUSPEND +10'-0" AFF OF SECOND LEVEL.
11. SUSPEND +11'-0" AFF OF SECOND LEVEL.
12. SUSPEND +12'-0" AFF OF SECOND LEVEL.
13. SUSPEND SENSOR AT SAME LEVEL AS LIGHTING IN SPACE.
14. SUSPEND SENSOR +12'-0" AFF.
15. SUSPEND SENSOR LEVEL WITH BOTTOM OF TRUSSES.
16. PROVIDE LOCKABLE COVER OVER SWITCH.
17. MOUNT PHOTOCELL ON ROOF FOR CONTROL OF EXTERIOR BUILDING MOUNTED FIXTURES.
18. UTILIZE CHASE FOR ROUTING OF CONDUITS FROM FIRST FLOOR TO SECOND FLOOR FROM PANELS ON FIRST FLOOR.



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1 UPPER FLOOR LIGHTING PLAN - AREA H

1/8" = 1'-0"

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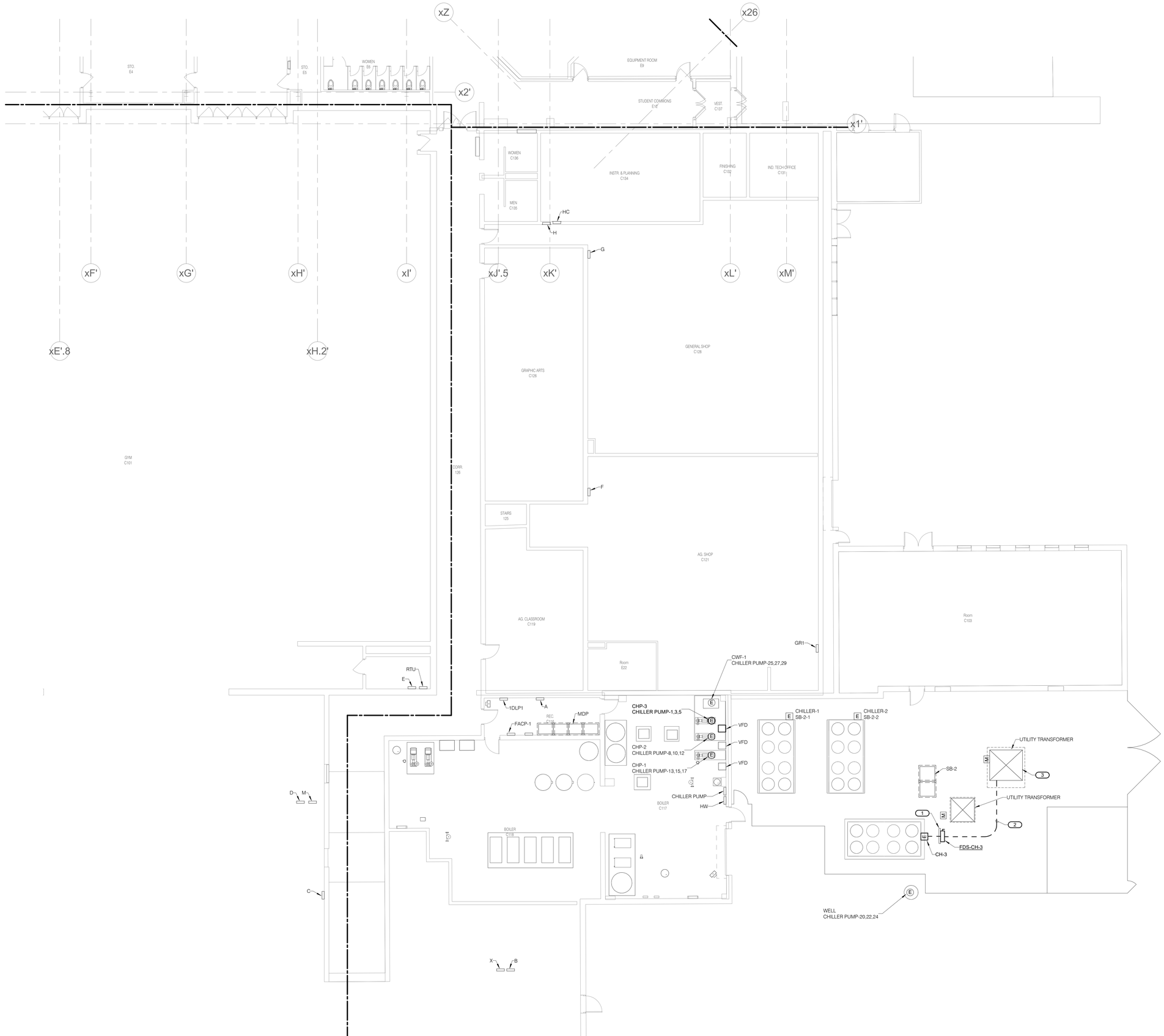
CHK	ARW

UPPER FLOOR LIGHTING PLAN - AREA H

E2.3H

1/29/2025 11:10:09 AM



1 GROUND FLOOR POWER PLAN - AREA C

1/8" = 1'-0"

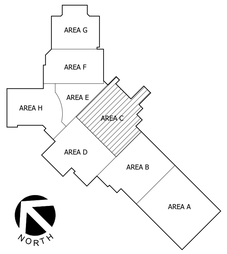
NORTH

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. PROVIDE UNISTRUT ASSEMBLY FOR MOUNTING DISCONNECT SWITCH.
2. 4#350, 1#4 GND, 3" CONDUIT.
3. COORDINATE UTILITY TRANSFORMER WORK WITH DUKE ENERGY.



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CHK	ARW

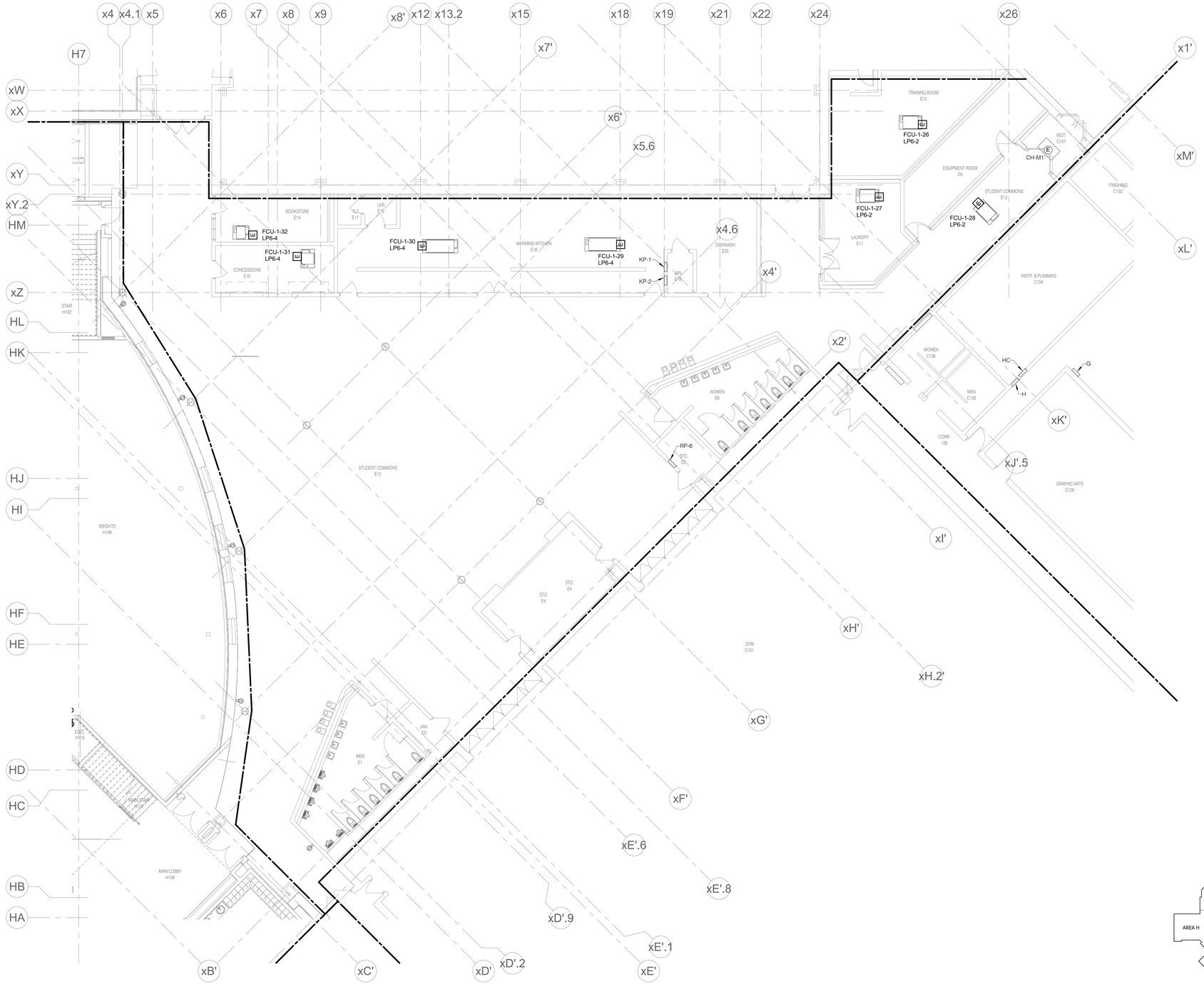
GROUND FLOOR POWER PLAN - AREA C

E3.1C

1/29/2025 11:10:12 AM

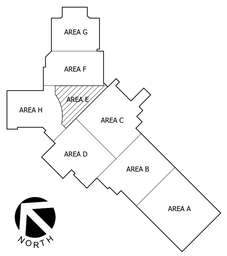
GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 **GROUND FLOOR POWER PLAN - AREA E**

1/8" = 1'-0"



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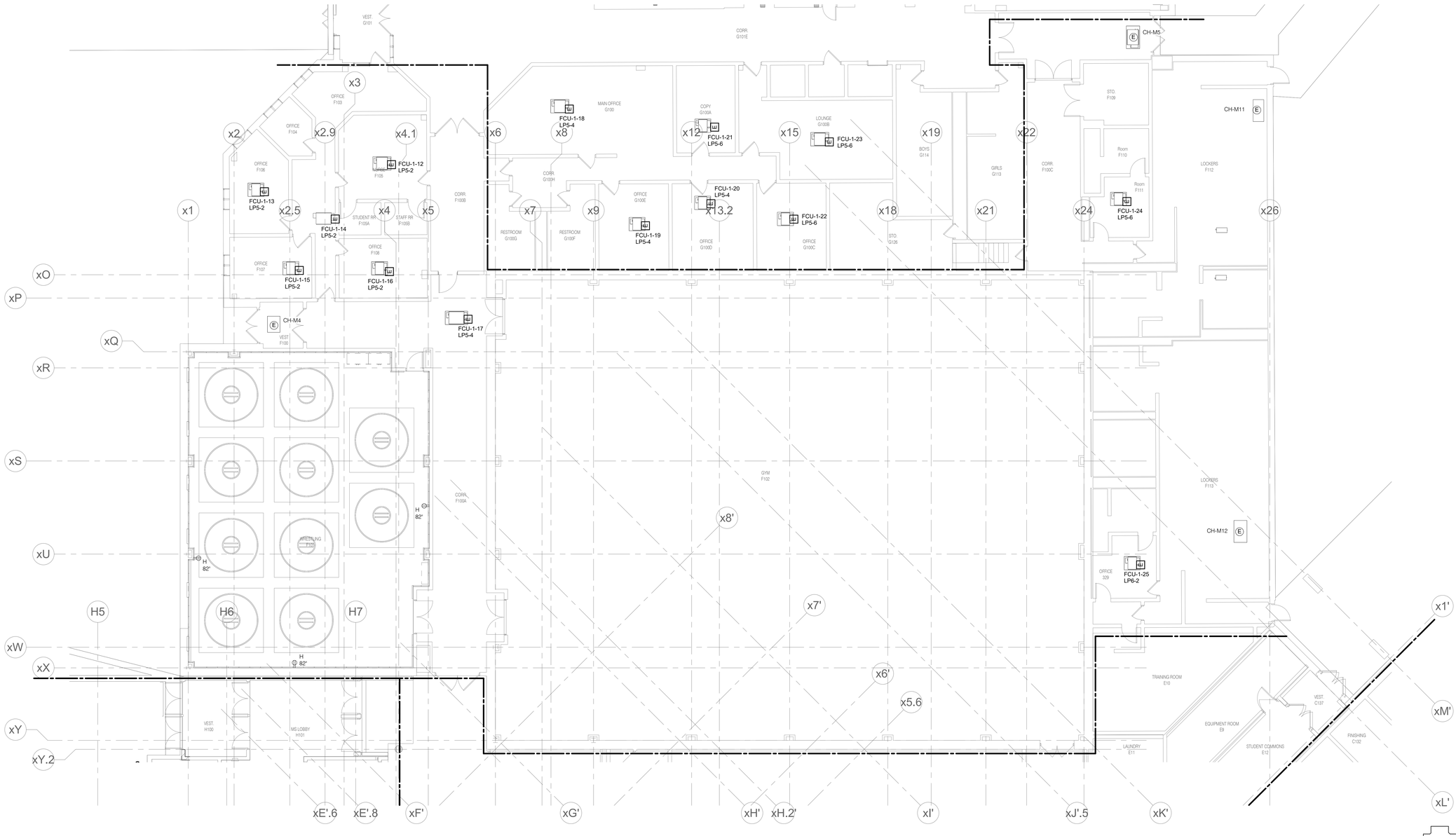
GROUND FLOOR POWER PLAN - AREA E

E3.1E

1/29/2025 11:10:15 AM

GENERAL NOTES:

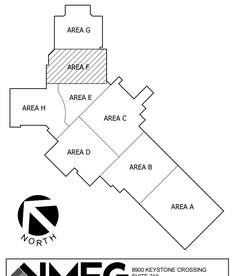
A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 GROUND FLOOR POWER PLAN - AREA F

1/8" = 1'-0"

NORTH



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GROUND FLOOR POWER PLAN - AREA F

E3.1F

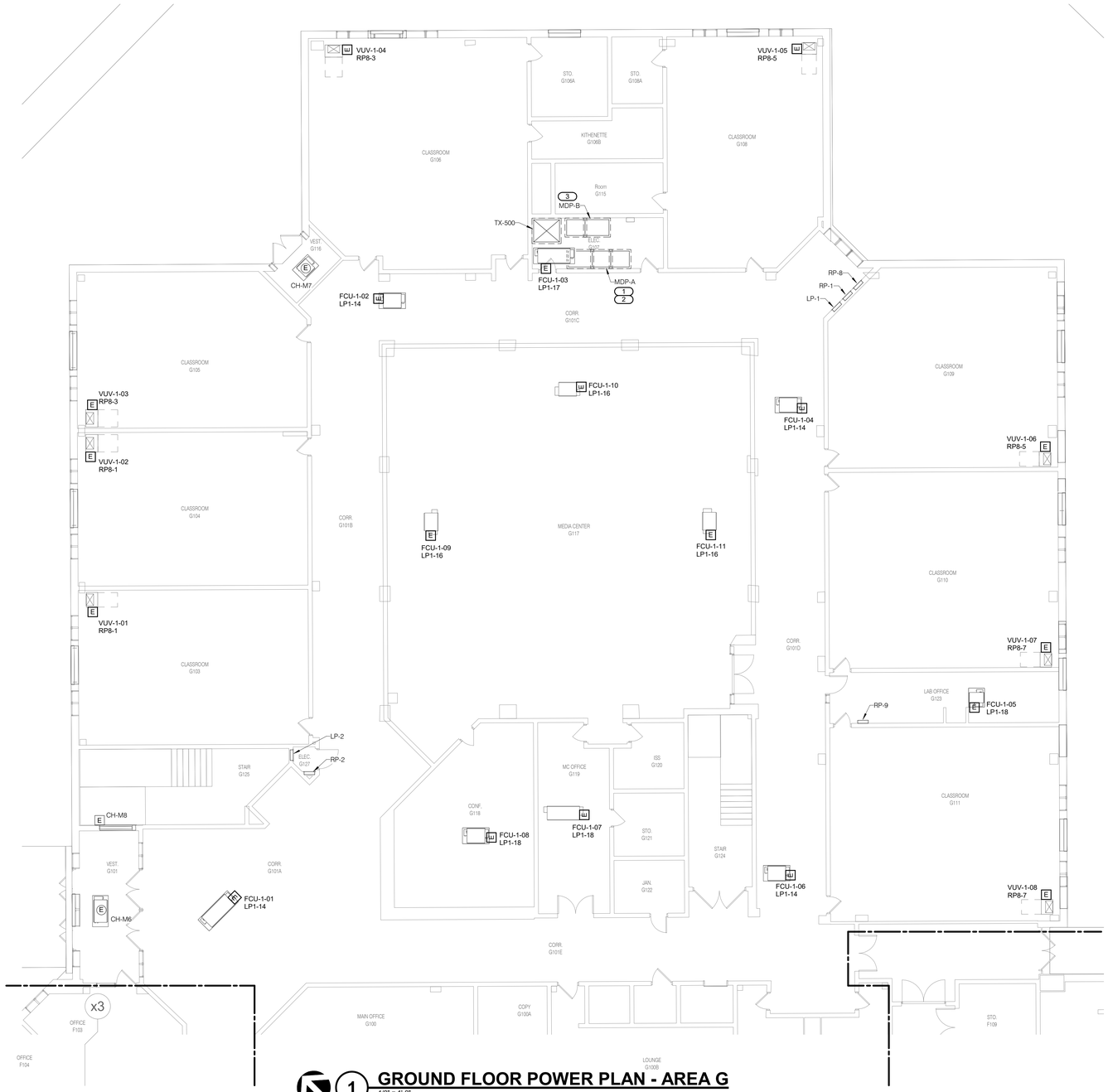
1/29/2025 11:10:19 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

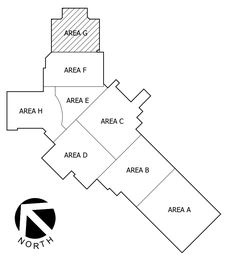
KEYNOTES: (#)

1. PROVIDE (1) 100A-3P BREAKER IN EXISTING SPACE OF EXISTING SWITCHBOARD MDP-A TO SERVE DHU-1. MATCH RATING AND CONSTRUCTION OF EXISTING SWITCHBOARD. REFER TO SHEET E3.3H FOR DHU-1 LOCATION.
2. PROVIDE (1) 400A-3P BREAKER IN EXISTING SPACE OF EXISTING SWITCHBOARD MDP-A TO SERVE PANEL LP-7. MATCH RATING AND CONSTRUCTION OF EXISTING SWITCHBOARD. REFER TO SHEET E3.1H FOR PANEL LOCATION.
3. PROVIDE (1) 225A-3P BREAKER IN EXISTING SPACE OF EXISTING SWITCHBOARD MDP-B TO SERVE PANEL RP-10. MATCH RATING AND CONSTRUCTION OF EXISTING SWITCHBOARD. REFER TO SHEET E3.1H FOR PANEL LOCATION.



1 GROUND FLOOR POWER PLAN - AREA G

1/8" = 1'-0"



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PROJECT #24001305.00

ANDERSON R. WILLIS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

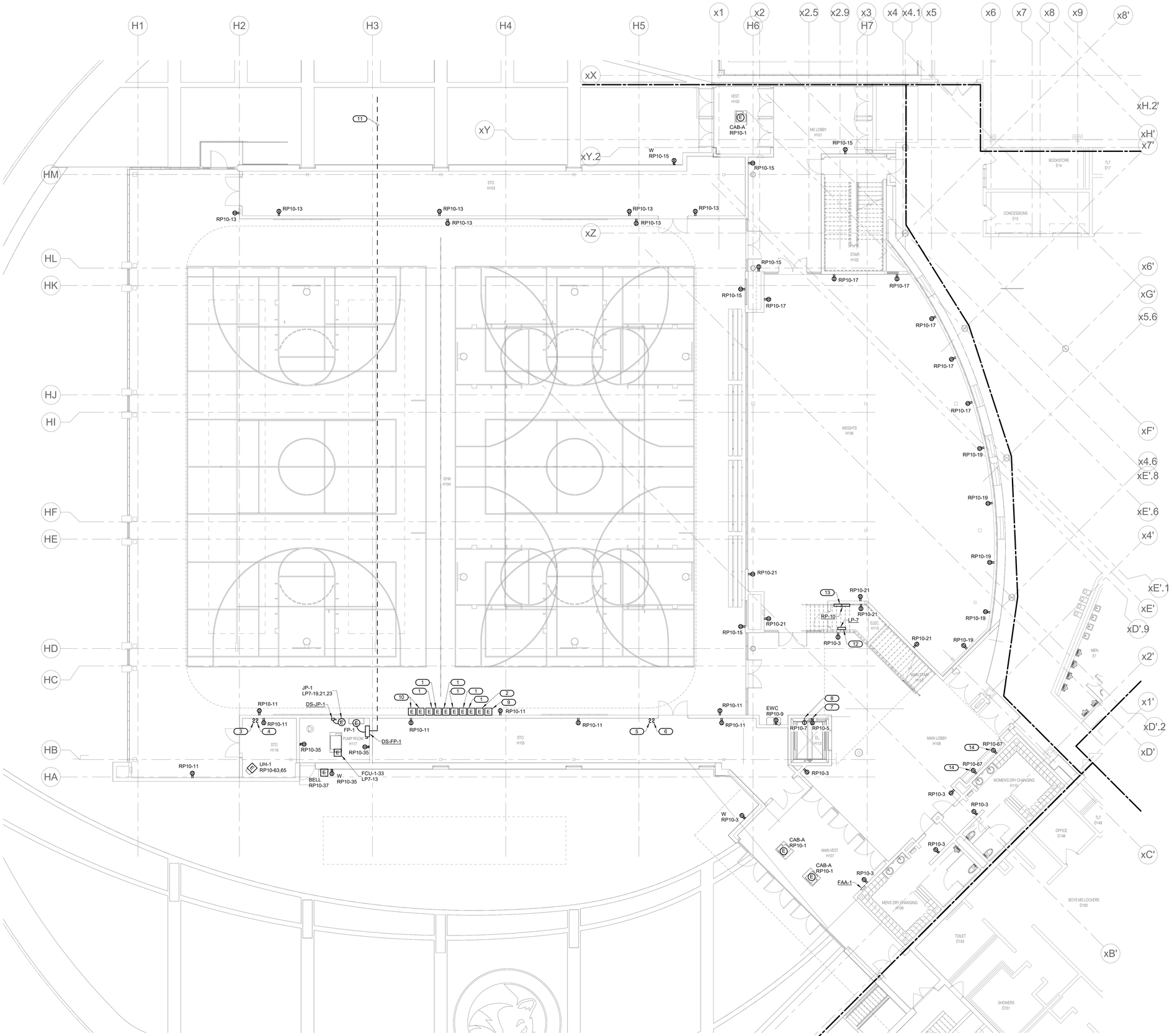
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

GROUND FLOOR POWER PLAN - AREA G

E3.1G

1/29/2025 11:10:21 AM



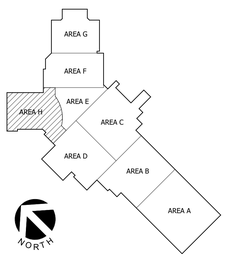
1 GROUND FLOOR POWER PLAN - AREA H
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. COORDINATE BASKETBALL WINCH CONTROLS AND INSTALLATION REQUIREMENTS WITH BASKETBALL WINCH INSTALLATION INSTRUCTIONS. MOUNT +46" AFF.
2. COORDINATE DIVIDER CURTAIN WINCH CONTROLS AND INSTALLATION REQUIREMENTS WITH DIVIDER CURTAIN INSTALLATION INSTRUCTIONS. MOUNT +46" AFF.
3. SWITCH FOR CONTROL OF SCOREBOARD (NORTH SIDE, EAST COURT). SWITCH FURNISHED BY SCOREBOARD MANUFACTURER; INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO SHEET E3.3H FOR SCOREBOARD LOCATION.
4. SWITCH FOR CONTROL OF SCOREBOARD (SOUTH SIDE, EAST COURT). SWITCH FURNISHED BY SCOREBOARD MANUFACTURER; INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO SHEET E3.3H FOR SCOREBOARD LOCATION.
5. SWITCH FOR CONTROL OF SCOREBOARD (NORTH SIDE, WEST COURT). SWITCH FURNISHED BY SCOREBOARD MANUFACTURER; INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO SHEET E3.3H FOR SCOREBOARD LOCATION.
6. SWITCH FOR CONTROL OF SCOREBOARD (NORTH SIDE, WEST COURT). SWITCH FURNISHED BY SCOREBOARD MANUFACTURER; INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO SHEET E3.3H FOR SCOREBOARD LOCATION.
7. MOUNT +18" AFF OF PIT. CONFIRM LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
8. MOUNT +48" AFF OF PIT FOR SUMP PUMP. CONFIRM LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
9. COORDINATE VOLLEYBALL NET WINCH CONTROLS AND INSTALLATION REQUIREMENTS WITH VOLLEYBALL NET INSTALLATION INSTRUCTIONS. MOUNT +46" AFF.
10. COORDINATE BATTING CAGE WINCH CONTROLS AND INSTALLATION REQUIREMENTS WITH BATTING CAGE INSTALLATION INSTRUCTIONS. MOUNT +46" AFF.
11. 4#1/0KCM, 1#6 GND, 3" CONDUIT TO UTILITY TRANSFORMER AT NORTH END OF MIDDLE SCHOOL BUILDING. REFER TO SHEET E2.0.
12. CONNECT PANEL TO EXISTING SWITCHBOARD MDP-A WITH 4#600KCMIL, 1#3G, 4"C. REFER TO SHEET E3.1G FOR PANEL LOCATION AND ADDITIONAL INFORMATION.
13. CONNECT PANEL TO EXISTING SWITCHBOARD MDP-B WITH 4#4/0, 1#4G, 2-1/2"C. REFER TO SHEET E3.1G FOR PANEL LOCATION AND ADDITIONAL INFORMATION.
14. MOUNT RECEPTACLES IN BACK OF DISPLAY CASE. COORDINATE HEIGHT AND LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.



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REGISTERED
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PROFESSIONAL ENGINEER
01.31.25

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NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

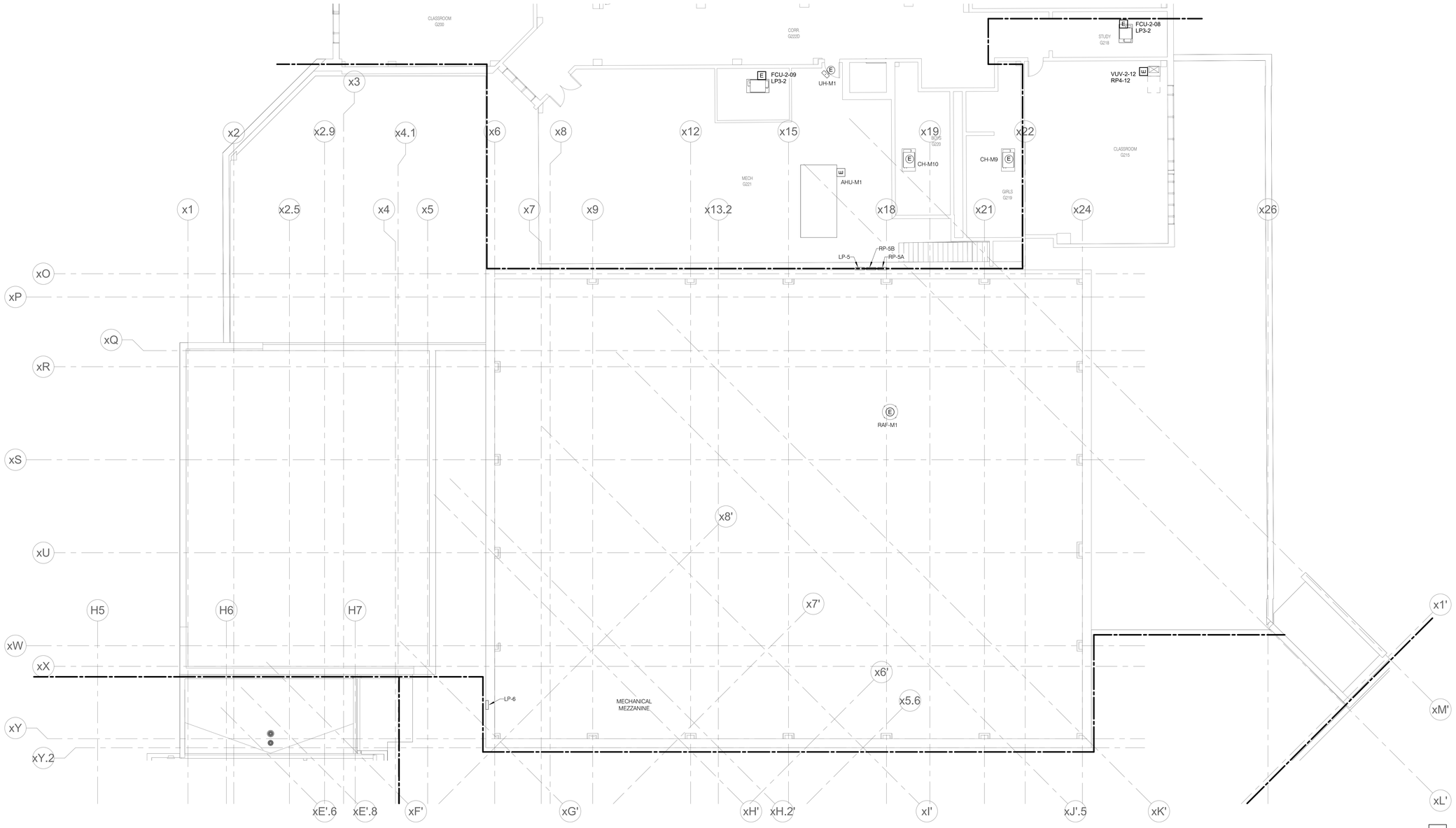
GROUND FLOOR POWER PLAN - AREA H

E3.1H

1/29/2025 11:10:25 AM

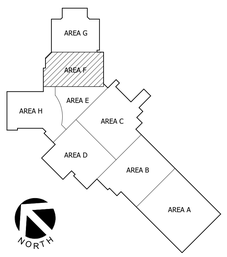
GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 UPPER FLOOR POWER PLAN - AREA F

1/8" = 1'-0"



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CHK	ARW

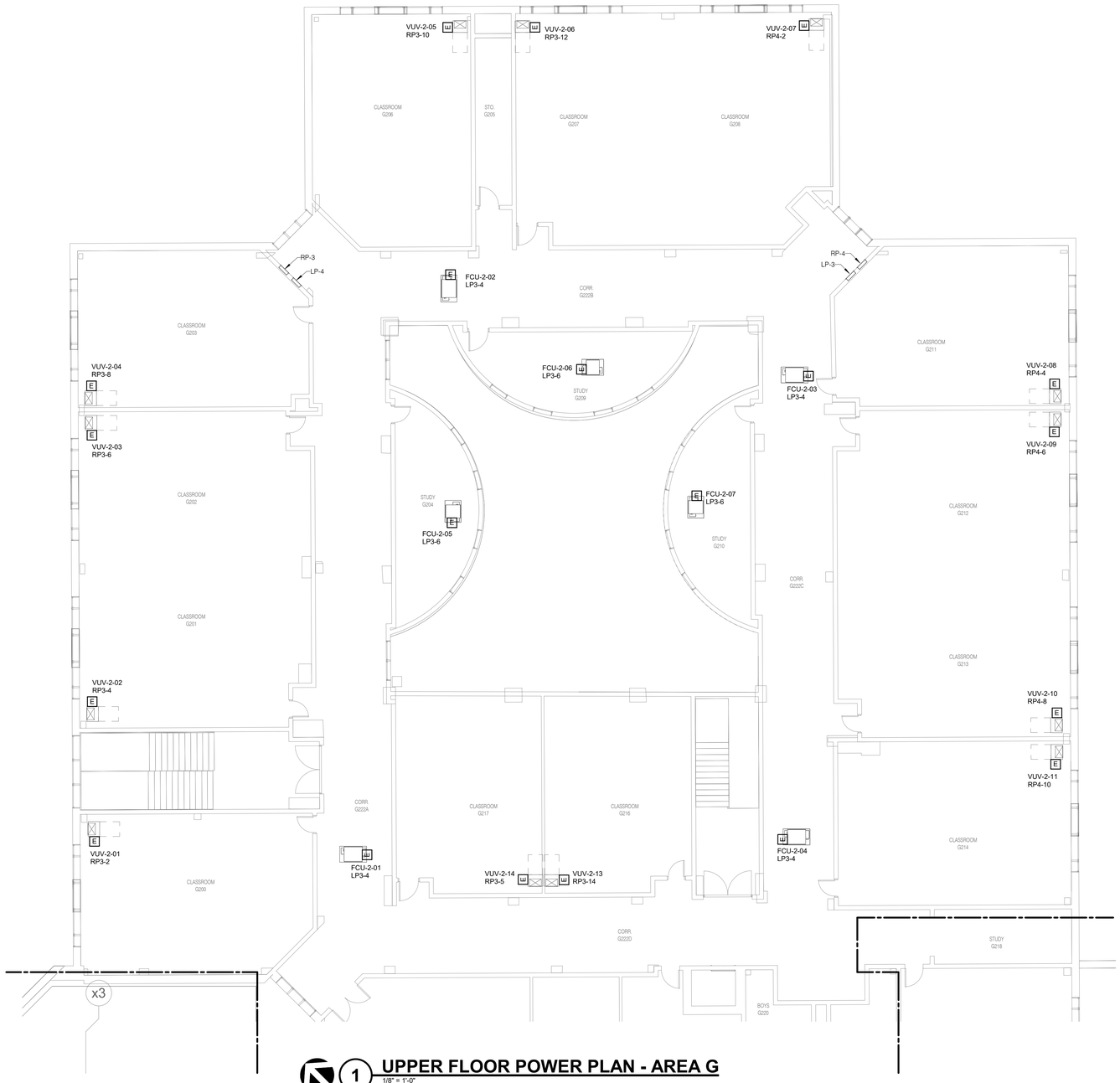
UPPER FLOOR POWER PLAN - AREA F

E3.3F

1/29/2025 11:10:27 AM

GENERAL NOTES:

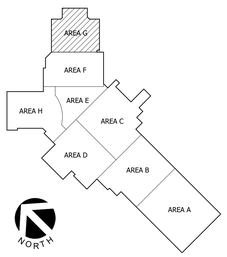
A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



NORTH

1 UPPER FLOOR POWER PLAN - AREA G

1/8" = 1'-0"



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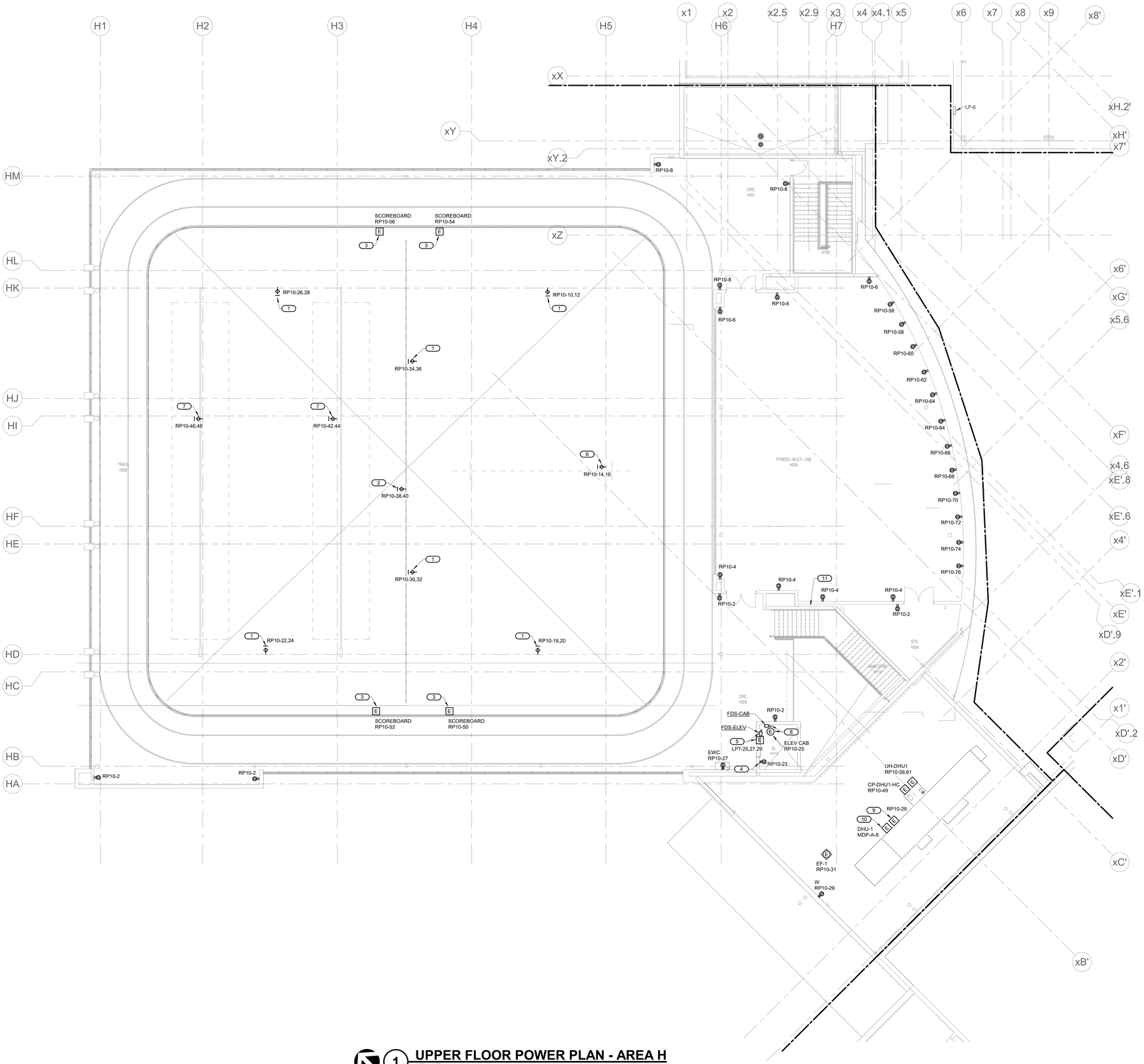
CHK	ARW

UPPER FLOOR POWER PLAN - AREA G

E3.3G

1/29/2025 11:10:30 AM



1 UPPER FLOOR POWER PLAN - AREA H

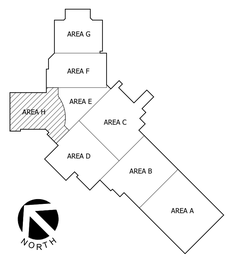
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. COORDINATE RECEPTACLE LOCATION AND INSTALLATION REQUIREMENTS WITH BASKETBALL WINCH INSTALLATION INSTRUCTIONS. REFER TO SHEET E3.1H FOR CONTROLS INFORMATION.
2. COORDINATE RECEPTACLE LOCATION AND INSTALLATION WITH REQUIREMENTS WITH DIVIDER CURTAIN WINCH INSTALLATION INSTRUCTIONS. REFER TO SHEET E3.1H FOR CONTROLS INFORMATION.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SCOREBOARD LOCATION AND MOUNTING HEIGHTS. REFER TO SHEET E3.1H FOR CONTROLS INFORMATION.
4. MOUNT RECEPTACLE NEAR TOP OF SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
5. LOCKABLE DISCONNECT FOR ELEVATOR MOTOR/CONTROL. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
6. COORDINATE RECEPTACLE LOCATION AND INSTALLATION REQUIREMENTS WITH VOLLEYBALL NET WINCH INSTALLATION INSTRUCTIONS. REFER TO SHEET E3.1H FOR CONTROLS INFORMATION.
7. COORDINATE RECEPTACLE LOCATION AND INSTALLATION REQUIREMENTS WITH BATTING CAGE WINCH INSTALLATION INSTRUCTIONS. REFER TO SHEET E3.1H FOR CONTROLS INFORMATION.
8. DISCONNECT FOR ELEVATOR CAB LIGHTS AND CONTROLLER ALARM CIRCUITS. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
9. POWER FOR UNIT INTERIOR LIGHTING.
10. CONNECT TO EXISTING SWITCHBOARD MDP-A WITH 3#3, 1#6G, 1-1/4" CONDUIT. REFER TO SHEET E3.1G FOR SWITCHBOARD LOCATION AND MORE INFORMATION.
11. UTILIZE CHASE FOR ROUTING OF CONDUITS FROM FIRST FLOOR TO SECOND FLOOR FROM PANELS ON FIRST FLOOR.



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NORTH PUTNAM COMMUNITY SCHOOLS

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WILLIAMS ARCHITECTS

REVISIONS

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CHK	ARW

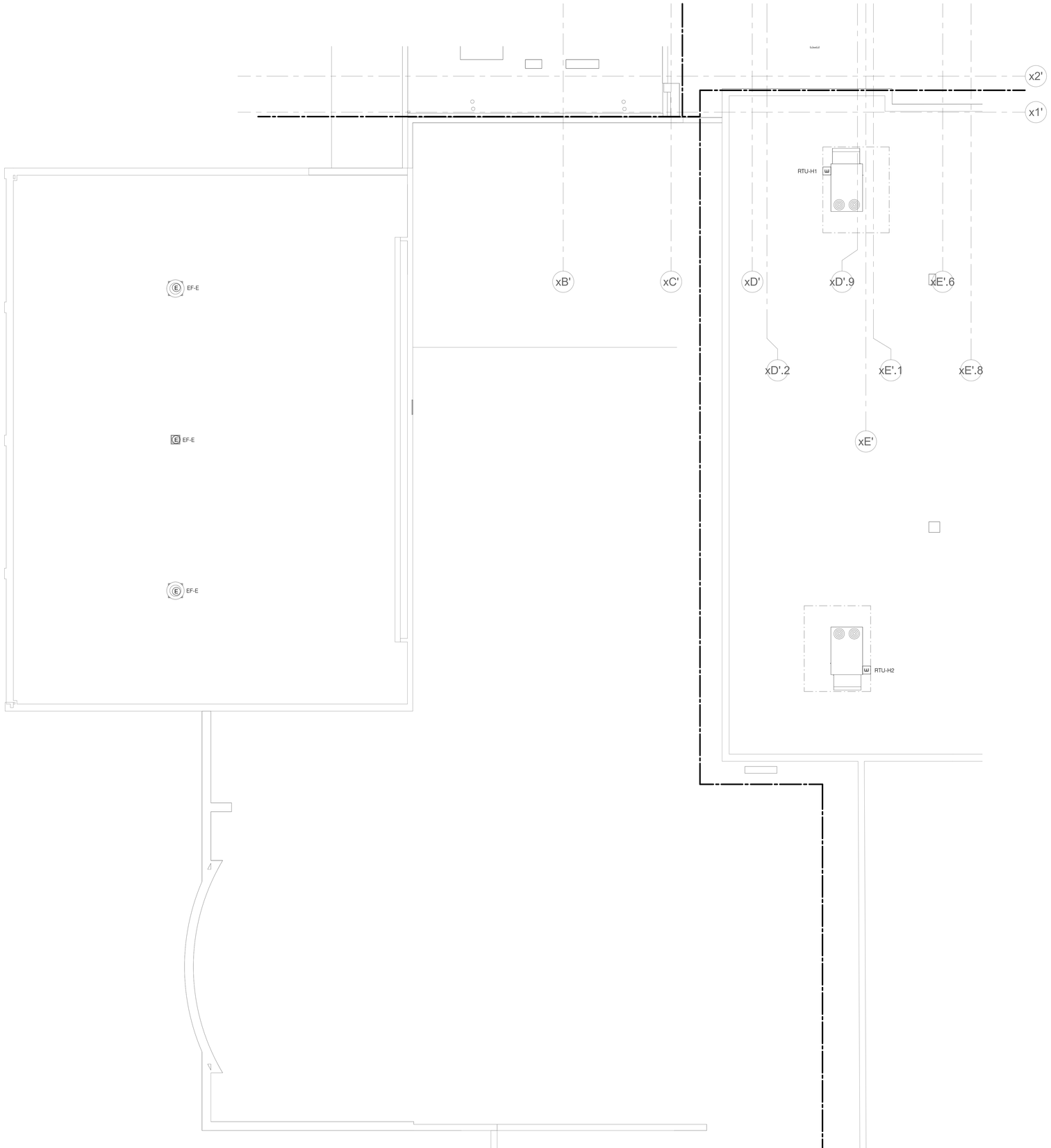
UPPER FLOOR POWER PLAN - AREA H

E3.3H

1/29/2025 11:10:33 AM

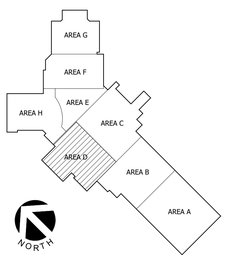
GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.



1 **ROOF ELECTRICAL PLAN - AREA D**

1/8" = 1'-0"



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WA No.	2024-006
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CHK	ARW

ROOF ELECTRICAL PLAN - AREA D

E3.4D

1/29/2025 11:10:35 AM

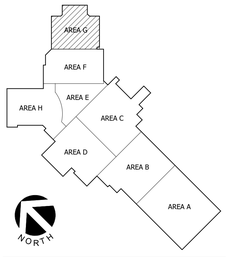
GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

NORTH

1 ROOF POWER PLAN - AREA G

1/8" = 1'-0"



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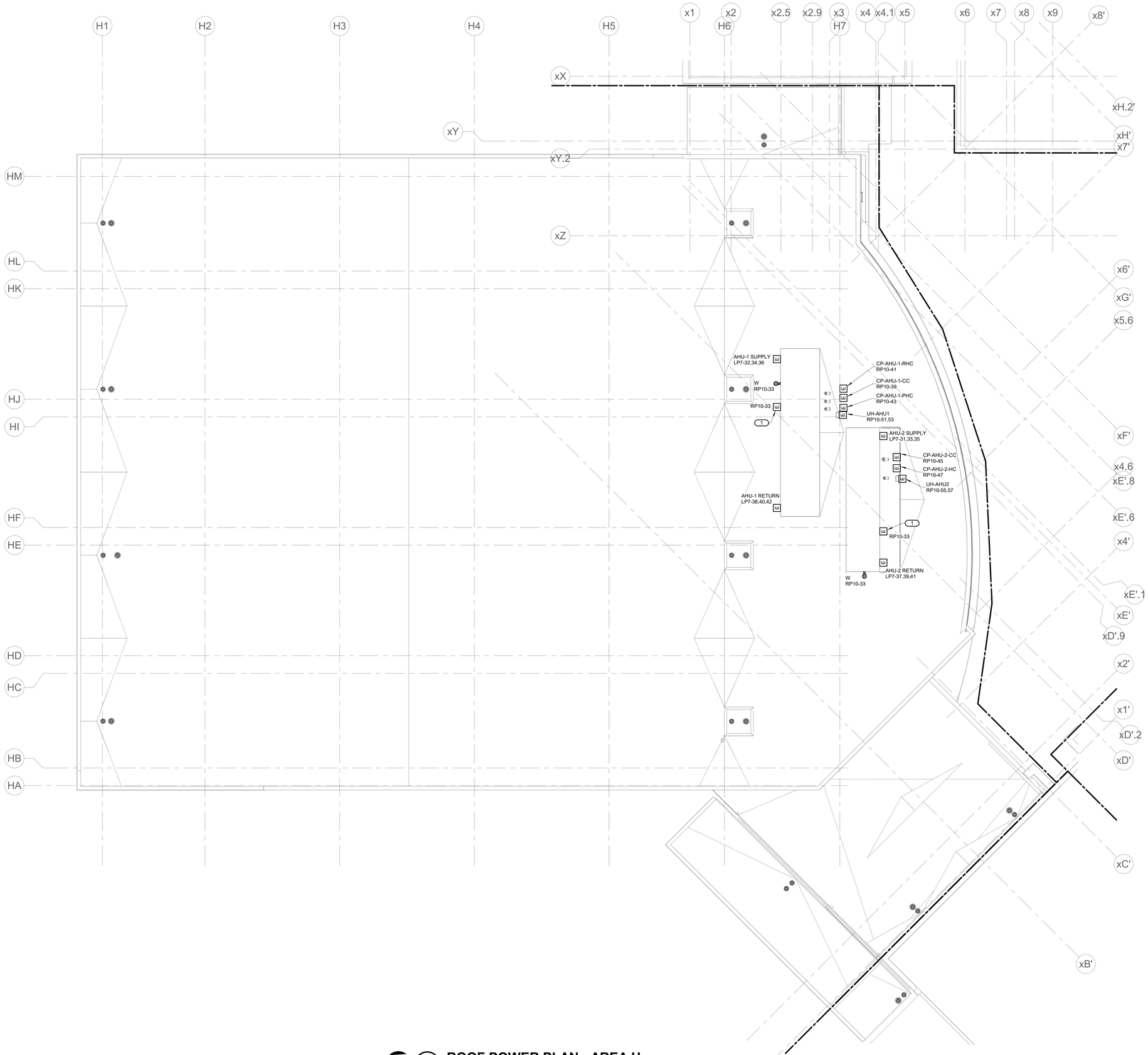
ROOF POWER PLAN - AREA G

E3.4G

1/29/2025 11:10:38 AM



1 ROOF POWER PLAN - AREA H

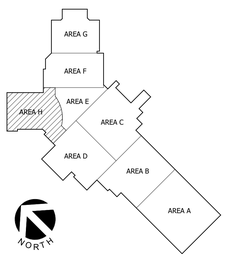
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 AND E0.1 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.

KEYNOTES: (#)

1. POWER FOR UNIT INTERIOR LIGHTING.



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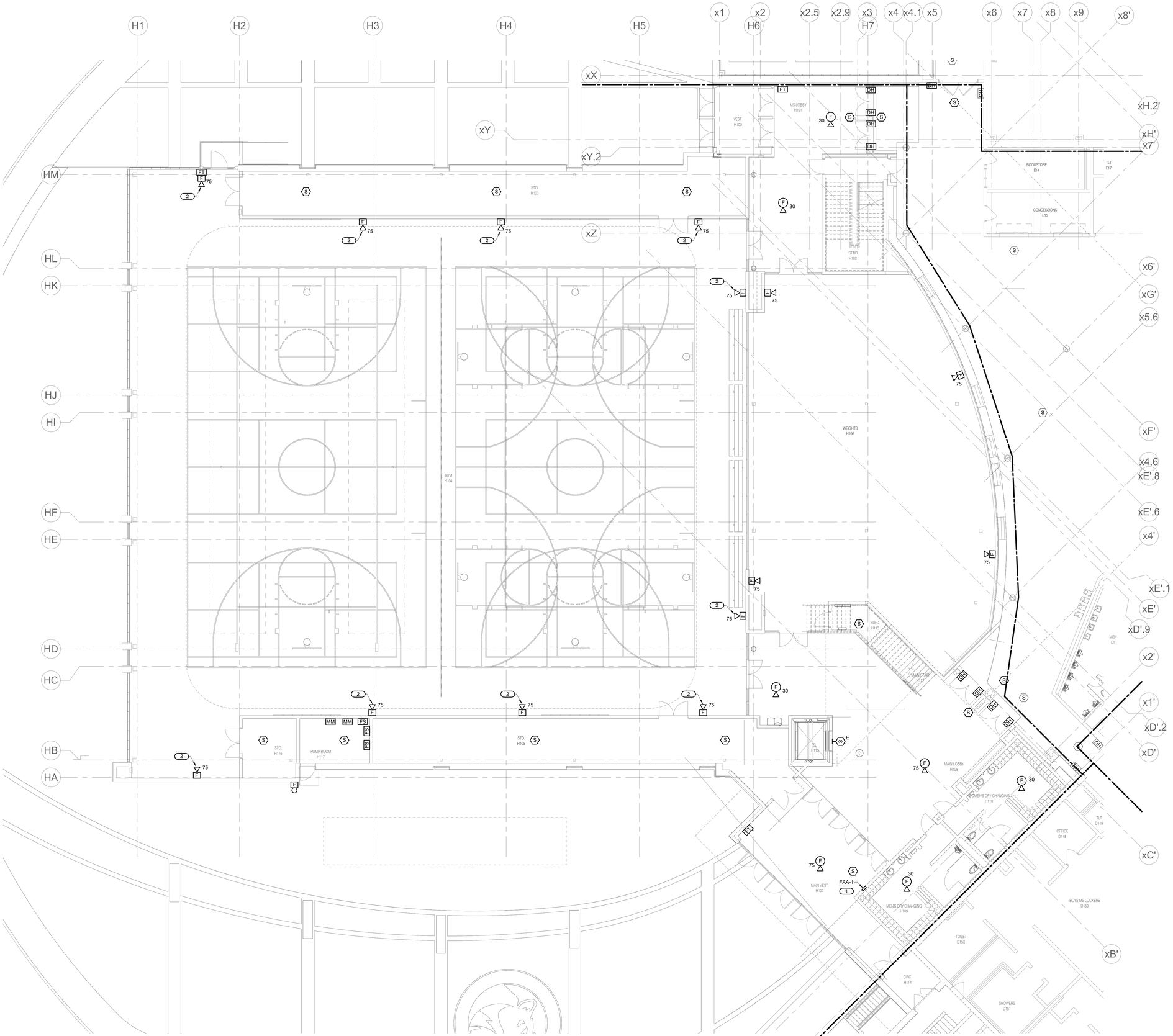
CHK	ARW

ROOF POWER PLAN - AREA H

E3.4H

1/29/2025 11:10:41 AM



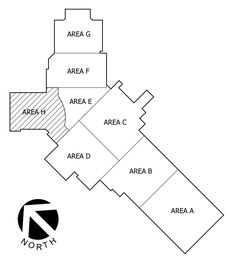
1 GROUND FLOOR SYSTEMS PLAN - AREA H
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.
B. CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM PANEL.
C. REFER TO SHEET E4.1E FOR EXISTING FIRE ALARM PANEL LOCATION.

KEYNOTES: (#)

1. RELOCATE FIRE ALARM ANNUNCIATOR PANEL. CONNECT TO FIRE ALARM SYSTEM TO MATCH EXISTING CONDITIONS. REFER TO SHEET E1.1H.
2. PROVIDE CAGE OVER DEVICE.



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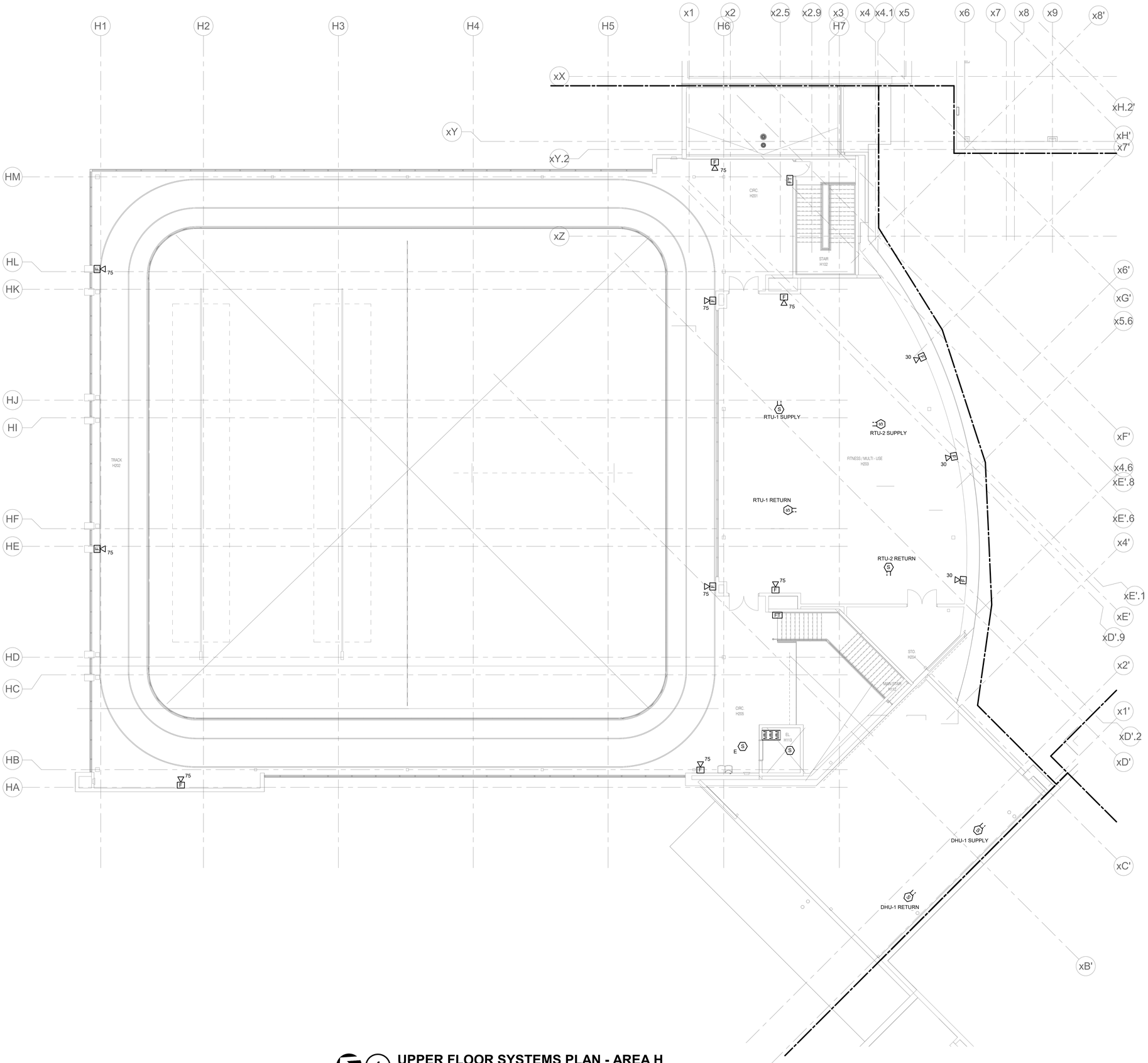
GROUND FLOOR SYSTEMS PLAN - AREA H

E4.1H

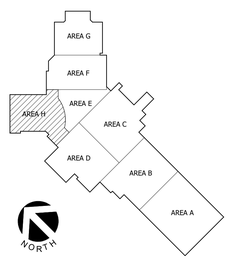
1/29/2025 11:10:45 AM

GENERAL NOTES:

A. REFER TO SHEET E0.0, E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS AND INSTALLATION NOTES.
B. CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM PANEL.
C. REFER TO SHEET E4.1E FOR EXISTING FIRE ALARM PANEL LOCATION.



1 **UPPER FLOOR SYSTEMS PLAN - AREA H**
1/8" = 1'-0"



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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

ANDERSON R. WILLIS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

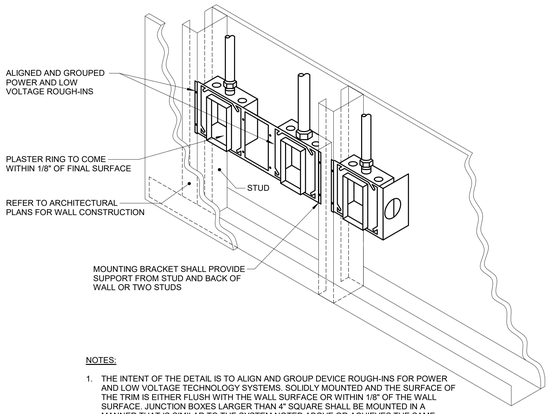
REVISIONS		
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

UPPER FLOOR SYSTEMS PLAN - AREA H

E4.3H

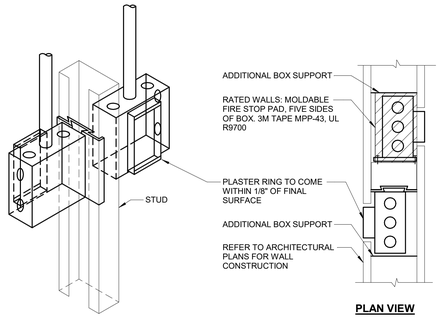
1/29/2025 11:10:46 AM



NOTES:

1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.

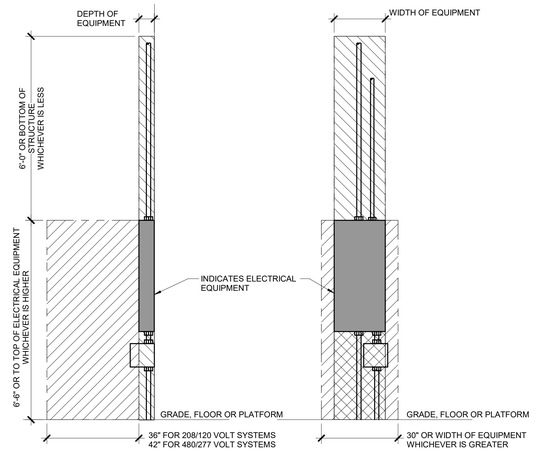
1 BACKBOX MOUNTING DETAIL
NO SCALE



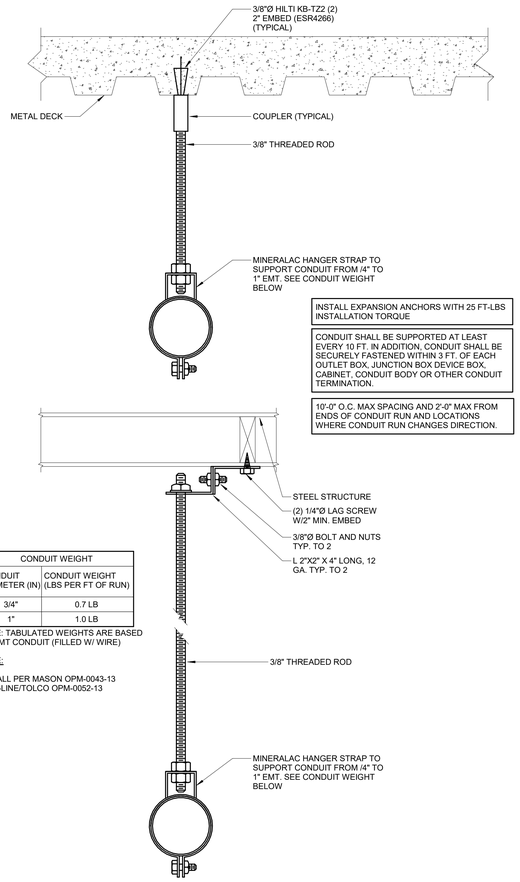
NOTES:

1. HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2'-0" NOT PERMITTED. SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DEVICES.

2 SIDE BY SIDE DEVICE OPENINGS
NO SCALE



3 PANELBOARD EQUIPMENT CLEARANCES
NO SCALE



INSTALL EXPANSION ANCHORS WITH 25 FT-LBS INSTALLATION TORQUE

CONDUIT SHALL BE SUPPORTED AT LEAST EVERY 10 FT. IN ADDITION, CONDUIT SHALL BE SECURELY FASTENED WITHIN 3 FT. OF EACH OUTLET BOX, JUNCTION BOX DEVICE BOX, CABINET, CONDUIT BODY OR OTHER CONDUIT TERMINATION.

10'-0" O.C. MAX SPACING AND 2'-0" MAX FROM ENDS OF CONDUIT RUN AND LOCATIONS WHERE CONDUIT RUN CHANGES DIRECTION.

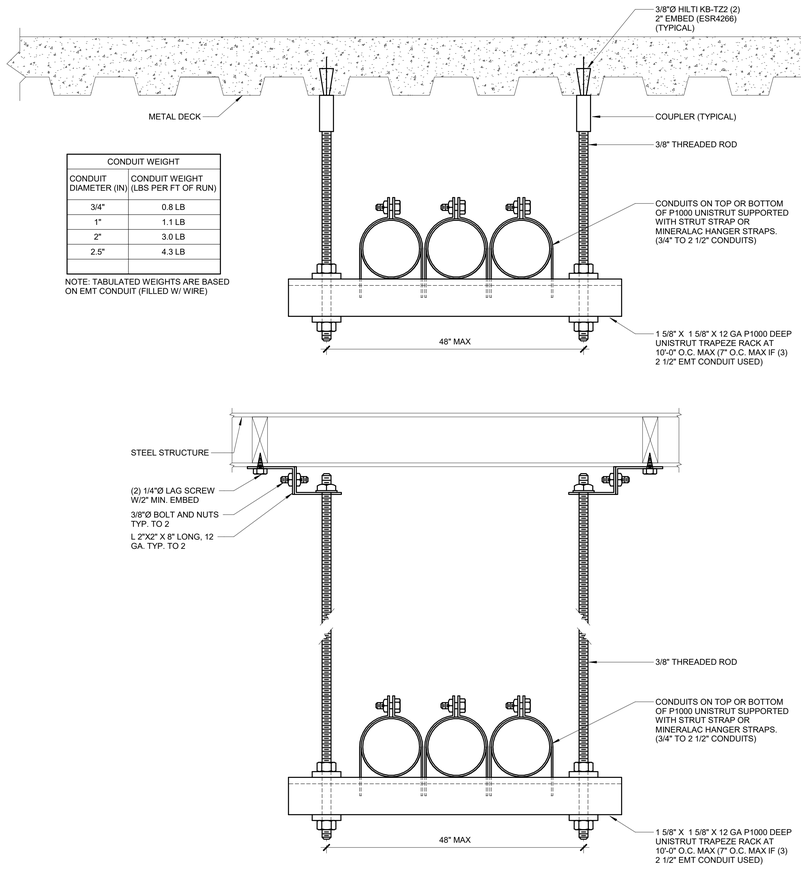
CONDUIT WEIGHT	
CONDUIT DIAMETER (IN)	CONDUIT WEIGHT (LBS PER FT OF RUN)
3/4"	0.7 LB
1"	1.0 LB

NOTE: TABULATED WEIGHTS ARE BASED ON EMT CONDUIT (FILLED W/ WIRE)

NOTE:

INSTALL PER MASON OPM-0043-13 OR B-LINE/TOLCO OPM-0052-13

4 CONDUIT SUPPORT DETAIL
NO SCALE



CONDUIT WEIGHT	
CONDUIT DIAMETER (IN)	CONDUIT WEIGHT (LBS PER FT OF RUN)
3/4"	0.8 LB
1"	1.1 LB
2"	3.0 LB
2.5"	4.3 LB

NOTE: TABULATED WEIGHTS ARE BASED ON EMT CONDUIT (FILLED W/ WIRE)

5 CONDUIT RACK SUPPORT DETAIL
NO SCALE

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WILLIAMS ARCHITECTS

REVISIONS

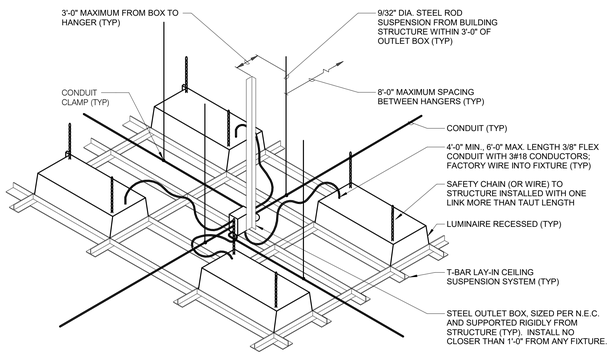
NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

ELECTRICAL DETAILS

E6.0

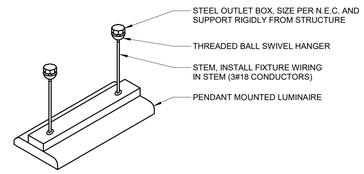
1/29/2025 11:10:50 AM



NOTES:

1. DO NOT SUPPORT CONDUIT OR BOXES FROM CEILING GRID HANGERS.
2. PROVIDE A MINIMUM OF TWO INDEPENDENT #12 GAUGE SUSPENDED CEILING SUPPORT WIRES LOCATED ON DIAGONAL CORNERS OF THE LUMINAIRES. LUMINAIRES WEIGHING 56 LBS OR GREATER REQUIRE FOUR SUPPORT WIRES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

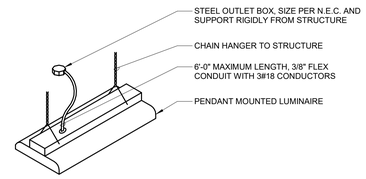
1 RECESSED LUMINAIRE DETAIL (SAFETY CHAIN)
NO SCALE



NOTES:

1. SELECT STEM LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS.
2. PROVIDE TWO STEMS ON SINGLE LUMINAIRE AND ONE STEM PER LUMINAIRE WHEN JOINED IN CONTINUOUS ROW.
3. LUMINAIRE TO BE MOUNTED LEVEL.

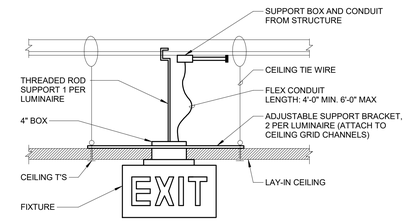
2 PENDANT MOUNTING DETAIL
NO SCALE



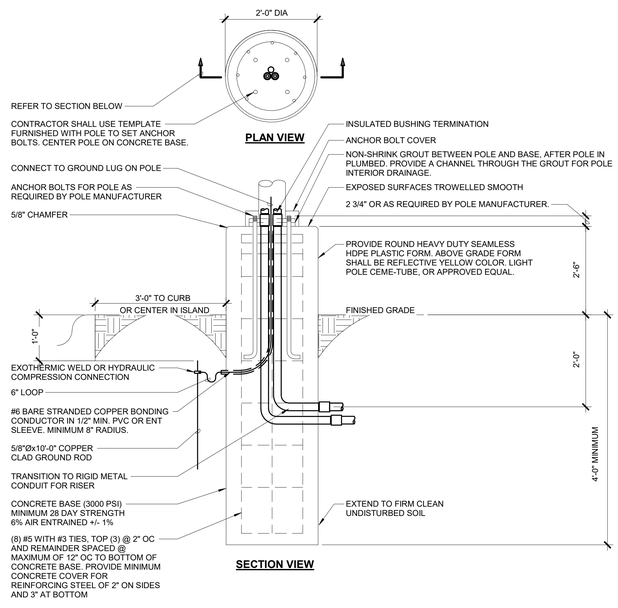
NOTES:

1. SELECT CHAIN LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS.
2. PROVIDE TWO CHAIN HANGERS FOR EACH LUMINAIRE. ADJUST TO HANG LUMINAIRE LEVEL.

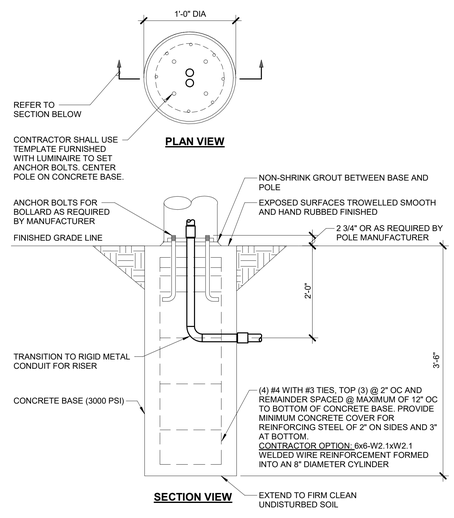
3 CHAIN SUSPENDED MOUNTING DETAIL
NO SCALE



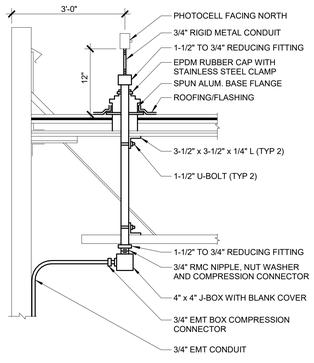
4 EXIT SIGN MOUNTING DETAIL
NO SCALE



5 EXTENDED POLE BASE DETAIL
NO SCALE



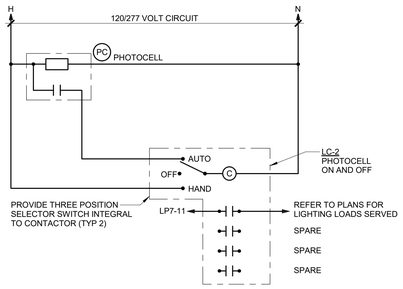
6 BOLLARD BASE DETAIL
NO SCALE



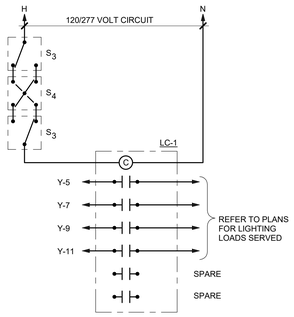
NOTES

1. STRUCTURAL DETAIL SHOWN IS TO BE REPRESENTATIVE ONLY. REFER TO ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS FOR ACTUAL CONDITIONS ON THIS PROJECT.

7 PHOTOCELL MOUNTING DETAIL
NO SCALE



8 EXTERIOR LIGHTING CONTROL DETAIL
NO SCALE



9 LIGHTING CONTACTOR DETAIL
NO SCALE

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WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No.	2024-006
Date	31 JAN 2025
Issue	100% CON CD
DWR	JHN
CHK	ARW

ELECTRICAL DETAILS

E6.1

1/29/2025 11:10:53 AM

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	ACCESSORIES & OPTIONS	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING: TYPE	RATING	TRIP RATING	VOLTAGE	POLES	STARTER: NEMA SIZE	TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
FDS-ELEV	FU	30 A	30 A	208 V	3			NEMA 1	LOCKABLE	FUSE PER ELEVATOR RECOMMENDATIONS
FDS-CAB	FU	30 A	30 A	208 V	3			NEMA 1	LOCKABLE	FUSE PER ELEVATOR RECOMMENDATIONS
FDS-CH-3	FU	400 A	300 A	480 V	3			NEMA 3R	LOCKABLE	FUSE AT 300A
DS-JP-1	NF	30 A		480 V	3			NEMA 1	LOCKABLE	
DS-FP-1	NF	400 A		480 V	3			NEMA 1	LOCKABLE	

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. {##B} PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. {Z#} DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
4. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
{L001}	SEQUENCE: Switched luminaires are controlled in this space. ON: The luminaire shall turn on via wallswitch. OFF: The luminaire shall turn off via wall switch.
{L002}	SEQUENCE: Switched luminaires are controlled in this space. ON: The luminaires shall turn on via wall switch and ceiling occupancy sensor(s). If switch is left in on position, occupancy sensor shall turn on lights when motion is detected. OFF: The luminaires shall turn off via wall switch. If switch is left on and space has been vacant for 15 minutes, the luminaires shall automatically turn off via occupancy sensor(s).
{L003}	SEQUENCE: Switched luminaires are controlled in this space. ON: The luminaires shall turn on via wall occupancy sensor switch. OFF: The luminaires shall turn off via wall occupancy sensor switch. If switch is left on and space has been vacant for 15 minutes, the luminaires shall automatically turn off via occupancy sensor.
{L004}	SEQUENCE: Switched luminaires are controlled in this space. ON: The luminaires shall turn on via ceiling occupancy sensor(s) when motion is detected. OFF: The luminaires shall turn off via ceiling occupancy sensor(s) when the space has been vacant for 60 minutes.
{L005}	SEQUENCE: Multiple zoned luminaires are controlled in this space. ON: The luminaires shall turn on via wall low voltage switch. ADJUST: The zoned luminaires are controlled by programmed low voltage button switch(s). OFF: The luminaires shall turn off via low voltage switch. If switch is left on and space has been vacant for 30 minutes, the luminaires shall automatically turn off via ceiling occupancy sensor(s).
{L006}	SEQUENCE: Dimmed luminaires are controlled in this space. ON: The luminaires shall turn on via wall dimmer switch and ceiling occupancy sensor(s). If switch is left in on position, occupancy sensor(s) shall turn lights on when motion is detected. ADJUST: The dimming luminaires are raised / lowered with 3-way dimmer switch(s). OFF: The luminaires shall turn off via wall dimmer switch. If switch is left on and space has been vacant for 15 minutes, the luminaires shall automatically turn off via ceiling occupancy sensor(s).

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	K19 - KSH19 .156" ACRYLIC
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	M - MATTE DIFFUSE CLEAR
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	N - NONE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	P - POLYCARBONATE
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	R - HIGH IMPACT DR ACRYLIC
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC	SS - SEMI-SPECULAR CLEAR
CFSA - COLOR-FINISH SELECTION BY ARCHITECT				O - OTHER (SEE DESCRIPTION)
				[DESIGN SPECIFIC BLANKS]

(MTG) MOUNTING:		(WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP	
CL - CEILING SURFACE	RE - RECESSED	(TYPE) LED	RGB - COLOR CHANGING LED
CV - COVE	SP - SUSPENDED	LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	SU - SURFACE	TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	UC - UNDER CABINET	OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	WL - WALL	DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED
	O - OTHER (SEE DESCRIPTION)		

(TYPE) DRIVER:			
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP DIM	MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING	REM - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING	O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 4000/4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE 4000/4100K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	L/L	MTG	DIMENSIONS: L	W	H	DIA.	WATT: ANSI WATTS	PER	LED: TYPE	QTY	DELIVERED LUMENS (MIN)	DRIVER: VOLTS	TYPE	MANUFACTURER AND MODEL
EX1	SINGLE-FACE EXIT SIGN, RED LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, UNIVERSAL ARROWS/MOUNTING.	O	CL	1'-1"	2"	9"		3 W	FIX	LED	1	LED	277 V	EM	LITHONIA LQM-S-W-R-EL ENVOY LIGHTING ECEM-1-R-W SURE-LITES LPX6
EX2	DUAL FACE EXIT SIGN, RED LETTERS, EMERGENCY NI-CAD BATTERY INSIDE OF SIGN, UNIVERSAL ARROWS/MOUNTING.	O	CL	1'-1"	2"	9"		3 W	FIX	LED	1	LED	277 V	EM	LITHONIA LQM-S-W-R-EL ENVOY LIGHTING ECEM-2-R-W SURE-LITES LPX6
EX3	SINGLE FACE EXIT SIGN, TAMPER RESISTANT, NEMA 4, CAST ALUMINUM BODY, POLYCARBONATE LENS, WHITE FACEPLATE, RED LETTERING.	O	CL/WL	1'-1"	2"	9"		3 W	FIX	LED	1	LED	277 V	EM	LITHONIA LV-S-W-1-R-120/277-ELN-4X DUAL-LITE EVE4X-R-W-E-I SURE-LITE
F1	OPEN RECESSED DOWNLIGHT, WET LABEL. TRIM COLOR SELECTED BY ARCHITECT.	O	RE			9 1/2"	6"	15 W	FIX	LED	1	2000	277 V	0-10V	LITHONIA LDN6-40/20-L06-TRW-MVOLT-GZ10 HALO HC620D010 PRESCOLITE LFR-6RD-M-20L40K8-MD-DM1/LFR-6RD-T-WT-CL & LFR-6RD-H
F1E	OPEN RECESSED DOWNLIGHT, WET LABEL. TRIM COLOR SELECTED BY ARCHITECT. FIXTURE SHALL HAVE INTEGRAL EMERGENCY BATTERY.	O	RE			9 1/2"	6"	15 W	FIX	LED	1	2000	277 V	0-10V EM	LITHONIA LDN6-40/20-L06-TRW-MVOLT-GZ10 HALO HC620D010 PRESCOLITE LFR-6RD-M-20L40K8-MD-DM1/LFR-6RD-T-WT-CL & LFR-6RD-H
F2	INDUSTRIALS LED STRIP LIGHT WITH ACRYLIC LENS.	A	SP	4'-0"	1'-0"	4 1/4"		27 W	FIX	LED	1	3000	277 V	0-10V	LITHONIA ZL1N-L48-3000LM-FST-MVOLT-40K-89CRI-WH COLUMBIA LIGHTING MPS4-40ML-CW-ED1U METALUX LIGHTING 4SNLED
F2E	INDUSTRIALS LED STRIP LIGHT WITH ACRYLIC LENS. INTEGRAL EMERGENCY BATTERY.	A	SP	4'-0"	1'-0"	4 1/4"		27 W	FIX	LED	1	3000	277 V	0-10V EM	LITHONIA ZL1N-L48-3000LM-FST-MVOLT-40K-89CRI-WH COLUMBIA LIGHTING MPS4-40ML-CW-ED1U METALUX LIGHTING 4SNLED
F3	OPEN RECESSED DOWNLIGHT, WET LABEL. TRIM COLOR SELECTED BY ARCHITECT.	O	RE			9 1/2"	6"	11 W	FIX	LED	1	1000	277 V	0-10V	LITHONIA LDN6-40/10-L06-TRW-MVOLT-GZ10 GOTHAM EVO PRESCOLITE LFR-6RD-M-10L40K8-MD-DM1/LFR-6RD-T-WT-CL & LFR-6RD-H
F3E	OPEN RECESSED DOWNLIGHT, WET LABEL. TRIM COLOR SELECTED BY ARCHITECT. INTEGRAL EMERGENCY BATTERY.	O	RE			9 1/2"	6"	11 W	FIX	LED	1	1000	277 V	0-10V EM	LITHONIA LDN6-40/10-L06-TRW-MVOLT-GZ10 GOTHAM EVO PRESCOLITE LFR-6RD-M-10L40K8-MD-DM1/LFR-6RD-T-WT-CL & LFR-6RD-H
F4	LINEAR LED SUSPENDED SYMMETRIC DISTRIBUTION FIXTURE WITH PAINTED EXTRUDED ALUMINUM HOUSING. FLUSH FROSTED ACRYLIC LENS. HOUSING COLOR SELECTED BY ARCHITECT FROM STANDARD FINISHES. CONFIRM LENGTHS ON DRAWINGS.	A	SP	<varies>	2"	2"		16 W	FT	LED	1	400 LUMENS/FT UP 900 LUMENS/FT DN	277 V	0-10V	STARTEK SLIM BEAM SLIMD PRUDENTIAL LIGHTING BPR02 FINELITE HP-4-P-ID-*-SD-V-840-WSO-DSO-96LG-277-SC-FC-1%
F4E	LINEAR LED SUSPENDED SYMMETRIC DISTRIBUTION FIXTURE WITH PAINTED EXTRUDED ALUMINUM HOUSING. FLUSH FROSTED ACRYLIC LENS. HOUSING COLOR SELECTED BY ARCHITECT FROM STANDARD FINISHES. CONFIRM LENGTHS ON DRAWINGS. INTEGRAL EMERGENCY BATTERY.	A	SP	4'-0"	2"	2"		16 W	FT	LED	1	400 LUMENS/FT UP 900 LUMENS/FT DN	277 V	0-10V EM	STARTEK SLIM BEAM SLIMD PRUDENTIAL LIGHTING BPR02 FINELITE HP-4-P-ID-*-SD-V-840-WSO-DSO-96LG-277-SC-FC-1%
F7	LINEAR STRIP FIXTURE.	A	SU	8'-0"	2 3/4"	2 3/4"		214 W	FIX	LED	1	31,000	277 V	0-10V	LUX LIGHTING HIGH-8-840-U10-SM-WP
F7A	LINEAR STRIP FIXTURE.	A	SU	4'-0"	2 3/4"	2 3/4"		107 W	FIX	LED	1	15,500	277 V	0-10V	LUX LIGHTING HIGH-4-840-U10-SM-WP
F7AE	LINEAR STRIP FIXTURE. INTEGRAL EMERGENCY BATTERY.	A	SU	4'-0"	2 3/4"	2 3/4"		107 W	FIX	LED	1	15,500	277 V	0-10V EM	LUX LIGHTING HIGH-4-840-U10-SM-WP
F7E	LINEAR STRIP FIXTURE. INTEGRAL EMERGENCY BATTERY.	A	SU	8'-0"	2 3/4"	2 3/4"		214 W	FIX	LED	1	31,000	277 V	0-10V EM	LUX LIGHTING HIGH-8-840-U10-SM-WP
F8	LED UP/DOWN LIGHT WITH DIFFUSED ACRYLIC HIGH IMPACT LENS, STEEL HOUSING, AND DIE-CAST END CAPS. PROVIDE INTEGRAL HIGH/LOW OCCUPANCY SENSOR AND INTEGRAL EMERGENCY BATTERY.	O	WL	4'-0"	3 1/2"	7 1/2"		50 W	FIX	LED	1	5400	277 V	0-10V	LITHONIA COLUMBIA LIGHTING ESL4-40HL-FAW-EDU-ELL14-HFU SPITZER LIGHTING
F9A	PENDANT SHALLOW ROUND FIXTURE WITH DIRECT AND INDIRECT. HUB TO CANOPY SUSPENSION. FINISH SELECTED BY ARCHITECT.	O	SP			3"	2'-0"	62 W	FIX	LED	1	2,270 DOWN 4,037 UP	277 V	0-10V	CAMMAN LIGHTING P1044-24 FINELITE HP-4C-P-ID-2'-S-H-835-TG-F-277-SC-FC-1% G LIGHTING GL-2305
F9AE	PENDANT SHALLOW ROUND FIXTURE WITH DIRECT AND INDIRECT. HUB TO CANOPY SUSPENSION. FINISH SELECTED BY ARCHITECT. REMOTE EMERGENCY BATTERY.	O	SP			3"	2'-0"	62 W	FIX	LED	1	2,270 DOWN 4,037 UP	277 V	0-10V EM	CAMMAN LIGHTING P1044-24 FINELITE HP-4C-P-ID-2'-S-H-835-TG-F-277-SC-FC-1% G LIGHTING GL-2305
F9B	PENDANT SHALLOW ROUND FIXTURE WITH DIRECT AND INDIRECT. HUB TO CANOPY SUSPENSION. FINISH SELECTED BY ARCHITECT.	O	SP			3"	3'-0"	103 W	FIX	LED	1	3,838 DOWN 6,823 UP	277 V	0-10V	CAMMAN LIGHTING P1044-36 FINELITE HP-4C-P-ID-3'-S-H-835-TG-F-277-SC-FC-1% G LIGHTING GL-2306
F9BE	PENDANT SHALLOW ROUND FIXTURE WITH DIRECT AND INDIRECT. HUB TO CANOPY SUSPENSION. FINISH SELECTED BY ARCHITECT. REMOTE EMERGENCY BATTERY.	O	SP			3"	3'-0"	103 W	FIX	LED	1	3,838 DOWN 6,823 UP	277 V	0-10V EM	CAMMAN LIGHTING P1044-36 FINELITE HP-4C-P-ID-3'-S-H-835-TG-F-277-SC-FC-1% G LIGHTING GL-2306
F9C	PENDANT SHALLOW ROUND FIXTURE WITH DIRECT AND INDIRECT. HUB TO CANOPY SUSPENSION. FINISH SELECTED BY ARCHITECT.	O	SP			3"	4'-0"	125 W	FIX	LED	1	4,883 DOWN 8,680 UP	277 V	0-10V	CAMMAN LIGHTING P1044-48 FINELITE HP-4C-P-ID-4'-S-H-835-TG-F-277-SC-FC-1% G LIGHTING GL-2307
F9CE	PENDANT SHALLOW ROUND FIXTURE WITH DIRECT AND INDIRECT. HUB TO CANOPY SUSPENSION. FINISH SELECTED BY ARCHITECT. REMOTE EMERGENCY BATTERY.	O	SP			3"	4'-0"	125 W	FIX	LED	1	4,883 DOWN 8,680 UP	277 V	0-10V EM	CAMMAN LIGHTING P1044-48 FINELITE HP-4C-P-ID-4'-S-H-835-TG-F-277-SC-FC-1% G LIGHTING GL-2307
F10	ENCLOSED INDUSTRIAL WITH FIBERGLASS HOUSING, STAINLESS STEEL LATCHES, MOLDED IN PLACE GASKET. PEBBLED LENS, UL LISTED WET LOCATION.	O	SP	4'-0"	7"	5"		49 W	FIX	LED	1	6000	277 V	0-10V	LITHONIA VAP LED COLUMBIA LIGHTING LXEM4-40HL-RFA-ED1U METALUX 4VT3
F11	HEAVY DUTY LUMINAIRE, FLAT END CAPS, HIGH IMPACT EXTRUDED CLEAR POLYCARBONATE LENS. COLOR BY ARCHITECT.	O	SP	4'-0"	6"	4"		35 W	FIX	LED	1	4000	277 V	0-10V	CERTOLUX VRSE-5-48FC-LED LITHONIA BLWP4-30L-PDSM-GZ10-LP840 KIM LIGHTING PVNT4-35-40K8-D01-UNV-C
F11E	HEAVY DUTY LUMINAIRE, FLAT END CAPS, HIGH IMPACT EXTRUDED CLEAR POLYCARBONATE LENS. COLOR BY ARCHITECT. INTEGRAL EMERGENCY BATTERY.	O	SP	4'-0"	6"	4"		35 W	FIX	LED	1	4000	277 V	0-10V EM	CERTOLUX VRSE-5-48FC-LED LITHONIA BLWP4-30L-PDSM-GZ10-LP840 KIM LIGHTING PVNT4-35-40K8-D01-UNV-C
F12	NATATORIUM SUSPENDED INDIRECT FIXTURE, ROTATABLE LED BARS FOR ADJUSTABILITY, DEFLECTOR SHIELD FOR REDUCING GLARE.	O	SP	4'-0"	1'-8"	1'-2"		863 W	FIX	LED	1	145,000	120 V	0-10V	LUX WAVEP-4-840-U10-WSA4-DEF
F12E	NATATORIUM SUSPENDED INDIRECT FIXTURE, ROTATABLE LED BARS FOR ADJUSTABILITY, DEFLECTOR SHIELD FOR REDUCING GLARE. INTEGRAL EMERGENCY BATTERY.	O	SP	4'-0"	1'-8"	1'-2"		863 W	FIX	LED	1	145,000	120 V	0-10V EM	LUX WAVEP-4-840-U10-WSA4-DEF4-E15
F13	TROFFER DIRECT/INDIRECT, CENTER LAMP SHEILD WITH ACRYLIC DIFFUSER.	O	RE	4'-0"	2'-0"	5 1/2"		34 W	FIX	LED	1	4000	277 V	0-10V	LITHONIA STAK-2X4 COLUMBIA LIGHTING LCAT24-40MLG-ED1U METALUX LIGHTING 24ARS-L3C3-UNV-MP2
F13E	TROFFER DIRECT/INDIRECT, CENTER LAMP SHEILD WITH ACRYLIC DIFFUSER. INTEGRAL EMERGENCY BATTERY.	O	RE	4'-0"	2'-0"	5 1/2"		34 W	FIX	LED	1	4000	277 V	0-10V EM	LITHONIA STAK-2X4 COLUMBIA LIGHTING LCAT24-40MLG-ED1U METALUX LIGHTING 24ARS-L3C3-UNV-MP2-EL14W
F15	EXTERIOR DOWNLIGHT, NARROW BEAM	O	RE			5"	4"	8 W	FIX	LED	1	700	277 V	0-10V	PRESCOLITE LTR-3RD-RH-SL-06L-DM1-35K-8-VNR PORTFOLIO LDRT4D08D010
F16	LINEAR LED SUSPENDED SYMMETRIC DISTRIBUTION FIXTURE WITH PAINTED EXTRUDED ALUMINUM HOUSING. FLUSH FROSTED ACRYLIC LENS. HOUSING COLOR SELECTED BY ARCHITECT FROM STANDARD FINISHES. CONFIRM LENGTHS ON DRAWINGS.	A	SP	<varies>	2"	2"		16 W	FT	LED	1	1000 LUMENS/FT	277 V	0-10V	STARTEK SLIM BEAM SLIMD-XX-1000-WD-40K PRUDENTIAL LIGHTING BPR02-LIN-FLSH-LED-HO-X'-CC-SAL/NU-SC-UNV-CA48-DM01 FINELITE HP-2-P-D-*-TL100LM/FT-840-DSO-96LG-277-SC-FC-1%-FA50-C*-FE-**
F17	WALL MOUNT LIGHTING FIXTURE	A	WL	4'-0"	6"	6"		19 W	FIX	LED	1	2800	277 V	0-10V	COLUMBIA LIGHTING W3B-4-35-XW-SFA-ED-U METALUX 4BCLED-LD4-28SL-F-UNV-L8XX-CD1-U
F18E	WALL MOUNTED EXTERIOR FIXTURE.	O	WL	8"	5"	1'-4 1/2"		40 W	FIX	LED	1	2500	277 V	EM	KIM LIGHTING SW1-LED-36L
F19	AREA LIGHT ROUND BOLLARD. TYPE III DISTRIBUTION. 4000K. FINISH SELECTED BY ARCHITECT FROM STANDARD OPTIONS.	O				3'-6"	1'-2"	27 W	FIX	LED	1	900	277 V	0-10V	BEACON FRESNO SERIES FN2-12L-U-4K
F20	EXTERIOR SURFACE DOME LIGHT. VANDAL RESISTANT. WET LISTED. EMERGENCY BATTERY.		RE			3/4"	1'-2"	40 W	FIX	LED	1	4500	277 V	0-10V	CURRENT LIGHTING PVNTR-13-40-35K8-NDM-UNV-XX-EM
R1	RELOCATED PARKING LOT POLE AND LIGHT HEAD, SINGLE HEAD, TYPE IV.	O	PL	1'-10"	1'-3"	5 1/2"		300 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (SINGLE HEAD)
R1A	REPURPOSED PARKING LOT SINGLE HEAD, TYPE IV, ON NEW SQUARE TAPERED POLE. SQUARE TAPERED POLE TO MATCH EXISTING POLES AND COLOR FINISH.	O	PL	1'-10"	1'-3"	5 1/2"		300 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (SINGLE HEAD)
R2	RELOCATED PARKING LOT POLE AND LIGHT HEADS, TWO HEADS, TYPE IV, ON POLE.	O	PL	1'-10"	1'-3"	5 1/2"		600 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (TWO HEADS)
R2A	RELOCATED PARKING LOT POLE LIGHT, TWO HEAD, TYPE IV.	O	PL	1'-10"	1'-3"	5 1/2"		600 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (TWO HEADS)
R3	RELOCATED PARKING LOT POLE AND LIGHT HEADS. THREE HEADS, TYPE IV, ON POLE.	O	PL	1'-10"	1'-3"	5 1/2"		900 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (THREE HEADS)
S1A	PARKING LOT SINGLE HEAD, TYPE IV, ON EXISTING SQUARE TAPERED POLE.	O	PL	1'-10"	1'-3"	5 1/2"		300 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (SINGLE HEAD)
S2	PARKING LOT POLE LIGHT, TWO HEAD, TYPE IV. SQUARE TAPERED POLE TO MATCH EXISTING POLES AND COLOR FINISH	O	PL	1'-10"	1'-3"	5 1/2"		600 W	FIX	LED	1	44,000 LUMENS EACH HEAD	120 V	0-10V	ENERGY HARNESS EHF-ST5-4-57 (TWO HEADS)

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

ANDERSON R. WILLIAMS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS
NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR JHN
CHK ARW

ELECTRICAL SCHEDULES

E8.0

1/29/2025 11:10:57 AM

PANEL CHILLER PUMP

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ SB-2
LOCATION: BOILER C117

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
N	1	CHP-3	60 A	3	8	8	10	7.17	--					--	--	--	1	--	SPACE	2	--
--	3	--	--	--	--	--	--			7.17	--			--	--	--	1	--	SPACE	4	--
--	5	--	--	--	--	--	--					7.17	--	--	--	--	1	--	SPACE	6	--
--	7	SPACE	--	1	--	--	--	--	7.17					10	8	8	3	60 A	CHP-2	8	
--	9	SPACE	--	1	--	--	--			--	7.17			--	--	--	--	--	--	10	--
--	11	SPACE	--	1	--	--	--					--	7.17	--	--	--	--	--	--	12	--
	13	CHP-1	60 A	3	8	8	10	7.17	--					--	--	--	1	--	SPACE	14	--
--	15	--	--	--	--	--	--			7.17	--			--	--	--	1	--	SPACE	16	--
--	17	--	--	--	--	--	--					7.17	--	--	--	--	1	--	SPACE	18	--
--	19	SPACE	--	1	--	--	--	--	13.8					8	1	1	3	100 A	WELL	20	
--	21	SPACE	--	1	--	--	--			--	13.8			--	--	--	--	--	--	22	--
--	23	SPACE	--	1	--	--	--					--	13.8	--	--	--	--	--	--	24	--
	25	CWF-1	20 A	3	12	12	12	0.8	--					--	--	--	1	--	SPACE	26	--
--	27	--	--	--	--	--	--			0.8	--			--	--	--	1	--	SPACE	28	--
--	29	--	--	--	--	--	--					0.8	--	--	--	--	1	--	SPACE	30	--
							Total Load:	36.10 kVA		36.10 kVA		36.10 kVA									
							Total Amps:	130.32		130.32		130.32									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	108.3 kVA	100.00%	108.3 kVA	**TOTAL CONNECTED LOAD:**	108.30 kVA
				TOTAL ESTIMATED DEMAND LOAD:	108.3 kVA
				TOTAL CONNECTED AMPS:	130.26 A
				TOTAL ESTIMATED DEMAND AMPS:	130.3 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE.

PANEL 1DLP1

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: REC. C116

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	Emergency Lighting	20 A	1	--	--	--	0	0					--	--	--	3	20 A	Bleachers - North	2	--
--	3	Emergency Lighting	20 A	1	--	--	--			0	0			--	--	--	--	--	--	4	--
--	5	Emergency Lighting	20 A	1	--	--	--					0	0	--	--	--	--	--	--	6	--
--	7	SPARE	20 A	1	--	--	--	0	0					--	--	--	3	20 A	Bleachers - West Wall	8	--
--	9	SPARE	20 A	1	--	--	--			0	0			--	--	--	--	--	--	10	--
--	11	SPARE	20 A	1	--	--	--					0	0	--	--	--	--	--	--	12	--
--	13	SPARE	20 A	1	--	--	--	0	0					--	--	--	3	20 A	Bleachers - East Wall	14	--
--	15	SPARE	20 A	1	--	--	--			0	0			--	--	--	--	--	--	16	--
--	17	SPARE	20 A	1	--	--	--					0	0	--	--	--	--	--	--	18	--
--	19	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Fire Alarm Communicator	20	--
--	21	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Emergency Lighting	22	--
--	23	SPARE	20 A	1	--	--	--					0	0	--	--	--	3	30 A	SPARE	24	--
--	25	SPARE	20 A	1	--	--	--	0	0					--	--	--	--	--	--	26	--
--	27	SPARE	20 A	1	--	--	--			0	0			--	--	--	--	--	--	28	--
--	29	Air Compressor - Boiler Room	20 A	1	--	--	--					0	0	--	--	--	3	30 A	SPARE	30	--
--	31	Air Compressor - Boiler Room	20 A	1	--	--	--	0	0					--	--	--	--	--	--	32	--
--	33	Air Compressor - Boiler Room	20 A	1	--	--	--			0	0			--	--	--	--	--	--	34	--
--	35	Pool and Gymnasium Emergency Lights	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Fire Alarm Control Panel	36	--
--	37	Emergency Lighting	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Emergency Lighting	38	--
--	39	Pool Emergency Lights	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Emergency Lighting	40	--
--	41	SPACE	--	1	--	--	--					--	0	--	--	--	1	20 A	Emergency Lighting	42	--
							Total Load:	0.00 kVA		0.00 kVA		0.00 kVA									
							Total Amps:	0.00		0.00		0.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
				TOTAL CONNECTED LOAD:	0.00 kVA
				TOTAL ESTIMATED DEMAND LOAD:	0 kVA
				TOTAL CONNECTED AMPS:	0.00 A
				TOTAL ESTIMATED DEMAND AMPS:	0 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL A

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: REC. C116

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	Lights - Boiler Room	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Lights - Mechanical Room	2	--
--	3	Lights - Ag Shop	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	4	--
--	5	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	6	--
--	7	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Exhaust Fan	8	--
--	9	Lights - Exterior	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Lights - Tunnel	10	--
--	11	Lights - Tunnel	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lights - Greenhouse	12	--
--	13	Boiler B-1	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Heat and Cool	14	--
--	15	Boiler B-2	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Lights - Recieving Room	16	--
--	17	Boiler B-3	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Water Softner	18	--
--	19	Boiler B-4	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Security Panel	20	--
--	21	Boiler B-5	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Meter	22	--
--	23	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lights - Parking Lot	24	--
--	25	Existing Load	30 A	3	--	--	--	0	0					--	--	--	3	20 A	Water Heater	26	--
--	27	--	--	--	--	--	--			0	0			--	--	--	--	--	--	28	--
--	29	--	--	--	--	--	--					0	0	--	--	--	--	--	--	30	--
--	31	SPARE	30 A	3	--	--	--	0	0					--	--	--	1	20 A	Temp Control	32	--
--	33	--	--	--	--	--	--			0	0			--	--	--	1	20 A	SPARE	34	--
--	35	--	--	--	--	--	--					0	0	--	--	--	1	20 A	SPARE	36	--
--	37	RTU-1	50 A	3	--	--	--	0	0					--	--	--	3	50 A	SPARE	38	--
--	39	--	--	--	--	--	--			0	0			--	--	--	--	--	--	40	--
--	41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	42	--
							Total Load:	0.00 kVA		0.00 kVA		0.00 kVA									
							Total Amps:	0.00		0.00		0.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
				TOTAL CONNECTED LOAD:	0.00 kVA
				TOTAL ESTIMATED DEMAND LOAD:	0 kVA
				TOTAL CONNECTED AMPS:	0.00 A
				TOTAL ESTIMATED DEMAND AMPS:	0 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL Y

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: POOL DECK A448

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
E	Y-1	Lighting - Pool East - Night Lights	20 A	1	12	12	12	0.96	0					--	--	--	1	20 A	SPARE	Y-2	--
E	Y-3	Lighting - Pool East - Night Lights	20 A	1	12	12	12			0.96	0			--	--	--	1	20 A	SPARE	Y-4	--
E	Y-5	Lighting - Pool East - Night Lights	20 A	1	12	12	12					0.96	0	--	--	--	1	20 A	SPARE	Y-6	--
E	Y-7	Lighting - Pool East	20 A	1	12	12	12	0.96	0					--	--	--	1	20 A	SPARE	Y-8	--
E	Y-9	Lighting - Pool East	20 A	1	12	12	12			0.96	0			--	--	--	1	20 A	SPARE	Y-10	--
E	Y-11	Lighting - Pool West	20 A	1	12	12	12					0.96	0	--	--	--	1	20 A	SPARE	Y-12	--
E	Y-13	Lighting - Pool West	20 A	1	12	12	12	0.96	0					--	--	--	1	20 A	SPARE	Y-14	--
E	Y-15	Lighting - Pool West	20 A	1	12	12	12			0.96	0			--	--	--	1	20 A	SPARE	Y-16	--
E	Y-17	Lighting - Pool West	20 A	1	12	12	12					0.96	0	--	--	--	1	20 A	SPARE	Y-18	--
E	Y-19	Lighting - Pool West	20 A	1	12	12	12	0.96	0					--	--	--	1	20 A	SPARE	Y-20	--
--	Y-21	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	Y-22	--
--	Y-23	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	Y-24	--
--	Y-25	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	Y-26	--
--	Y-27	Northeast GFCI Receptacle	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	Y-28	--
--	Y-29	Exhaust Fan - Center and North	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	Y-30	--
--	Y-31	Exhaust Fan - South	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	Y-32	--
--	Y-33	Existing Load	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	Y-34	--
--	Y-35	Existing Load	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	Y-36	--
--	Y-37	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	Y-38	--
--	Y-39	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	Y-40	--
--	Y-41	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Pepsi Machine	Y-42	--
							Total Load:	3.84 kVA		2.88 kVA		2.88 kVA									
							Total Amps:	31.96		23.97		23.97									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	9.589 kVA	100.00%	9.589 kVA	**TOTAL CONNECTED LOAD:**	9.59 kVA
				TOTAL ESTIMATED DEMAND LOAD:	9.589 kVA
				TOTAL CONNECTED AMPS:	26.62 A
				TOTAL ESTIMATED DEMAND AMPS:	26.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: E = EXISTING BREAKER WITH NEW LOAD

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

ANDERSON R. WILLIAMS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR JHN
CHK ARW

ELECTRICAL PANEL SCHEDULES

E9.0

1/29/2025 11:11:00 AM

PANEL LP-1

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ MDP-A
LOCATION: CORR. G101C

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 175 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
--	LP1-1	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	LP1-2	--
--	LP1-3	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	LP1-4	--
--	LP1-5	SPACE	--	1	--	--	--					--	0	--	--	--	1	20 A	Lighting - 108	LP1-6	--
--	LP1-7	Lighting - Corridor	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Lighting - 106A, 106B, 107, 108A, 108B	LP1-8	--
--	LP1-9	Lighting - 109	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Lighting - 106	LP1-10	--
--	LP1-11	Lighting - 110	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lighting 102A, 102B	LP1-12	--
--	LP1-13	Lighting - 111, 112	20 A	1	--	--	--	0	2.66					12	12	12	1	20 A	FCU-1-01, 02, 04, 06 - Corridors	LP1-14	E
--	LP1-15	Ext. Lights	20 A	1	--	--	--			0	1.66			12	12	12	1	20 A	FCU-1-03 - Elec Rm; FCU-1-09,10,11	LP1-16	E
E	LP1-17	FCU-1-03 - Electrical Room	20 A	1	12	12	12					1	2.09	12	12	12	1	20 A	FCU-1-05 - Lab Off; FCU-1-07, 08 - Conf.	LP1-18	E
--	LP1-19	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP1-20	--
--	LP1-21	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP1-22	--
--	LP1-23	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP1-24	--
--	LP1-25	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP1-26	--
--	LP1-27	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP1-28	--
--	LP1-29	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP1-30	--
--	LP1-31	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP1-32	--
--	LP1-33	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP1-34	--
--	LP1-35	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP1-36	--
--	LP1-37	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP1-38	--
--	LP1-39	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP1-40	--
--	LP1-41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP1-42	--
							Total Load:	2.66 kVA		1.66 kVA		3.08 kVA									
							Total Amps:	10.15		6.00		11.68									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	7.403 kVA	100.00%	7.403 kVA		
				TOTAL CONNECTED LOAD:	7.40 kVA
				TOTAL ESTIMATED DEMAND LOAD:	7.403 kVA
				TOTAL CONNECTED AMPS:	8.90 A
				TOTAL ESTIMATED DEMAND AMPS:	8.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: E = EXISTING BREAKER WITH NEW LOAD

PANEL LP-3

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ MDP-A
LOCATION: CORR. G222B

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
--	LP3-1	SPARE	100 A	3	--	--	--	0	1.09					12	12	12	1	20 A	FCU-2-08, 09	LP3-2	N
--	LP3-3	--	--	--	--	--	--			0	2.18			12	12	12	1	20 A	FCU-2-01, 02, 03, 04 - Corridors	LP3-4	N
--	LP3-5	--	--	--	--	--	--					0	1.63	12	12	12	1	20 A	FCU-2-05, 06,07 - Media Center	LP3-6	N
--	LP3-7	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	LP3-8	--
--	LP3-9	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	LP3-10	--
--	LP3-11	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	LP3-12	--
--	LP3-13	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	LP3-14	--
--	LP3-15	SPACE	--	1	--	--	--			--	0			--	--	--	1	20 A	Lighting - Rooms 214, 215	LP3-16	--
--	LP3-17	SPACE	--	1	--	--	--					--	0	--	--	--	1	20 A	Lighting - Rooms 212, 213	LP3-18	--
--	LP3-19	Lighting - Corridor	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Lighting - Room 211	LP3-20	--
--	LP3-21	Lighting - Rooms 205, 206, 207	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Lighting - Media Center	LP3-22	--
--	LP3-23	Lighting - Room 208	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lighting - Media Center	LP3-24	--
--	LP3-25	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP3-26	--
--	LP3-27	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP3-28	--
--	LP3-29	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP3-30	--
--	LP3-31	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP3-32	--
--	LP3-33	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP3-34	--
--	LP3-35	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP3-36	--
--	LP3-37	SPARE	20 A	3	--	--	--	0	0					--	--	--	3	20 A	SPARE	LP3-38	--
--	LP3-39	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP3-40	--
--	LP3-41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP3-42	--
							Total Load:	1.09 kVA		2.18 kVA		1.63 kVA									
							Total Amps:	3.93		8.16		6.19									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	4.896 kVA	100.00%	4.896 kVA		
				TOTAL CONNECTED LOAD:	4.90 kVA
				TOTAL ESTIMATED DEMAND LOAD:	4.896 kVA
				TOTAL CONNECTED AMPS:	5.89 A
				TOTAL ESTIMATED DEMAND AMPS:	5.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL LP-5

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ MDP-A
LOCATION: MECH G221

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 125 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
--	LP5-1	SPACE	--	1	--	--	--	--	2.72					12	12	12	1	20 A	FCU-1-12, 13, 14,15,16 - 1st Floor Offices	LP5-2	N
--	LP5-3	SPARE	100 A	3	--	--	--			0	2.18			12	12	12	1	20 A	FCU-1-17, 18, 19,20- 1st Floor Offices	LP5-4	N
--	LP5-5	--	--	--	--	--	--					0	2.07	12	12	12	1	20 A	FCU-1-21, 22, 23, 24 - 1st Floor Offices	LP5-6	N
--	LP5-7	--	--	--	--	--	--	0	--					--	--	--	1	--	SPACE	LP5-8	--
--	LP5-9	Lighting - Nurse, Corridor	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	LP5-10	--
--	LP5-11	Lighting - Room 127	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lighting - Front Pole	LP5-12	--
--	LP5-13	Lighting - Room 118, 119	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Lighting - Gymnasium (4 south)	LP5-14	--
--	LP5-15	Lighting - Room 119	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Lighting - Gymnasium	LP5-16	--
--	LP5-17	Lighting - Exit and Night Lights	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lighting - Gymnasium (4 east)	LP5-18	--
--	LP5-19	Lighting - Mechanical Room Night Lights	20 A	1	--	--	--	0	0					--	--	--	3	20 A	AHU-M1	LP5-20	--
--	LP5-21	Lighting - Mechanical Room	20 A	1	--	--	--			0	0			--	--	--	--	--	--	LP5-22	--
--	LP5-23	SPARE	20 A	1	--	--	--					0	0	--	--	--	--	--	--	LP5-24	--
--	LP5-25	Gym Exhaust Fan	20 A	3	--	--	--	0	0					--	--	--	3	35 A	ERU-M3	LP5-26	--
--	LP5-27	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP5-28	--
--	LP5-29	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP5-30	--
--	LP5-31	SPARE	40 A	3	--	--	--	0	0					--	--	--	3	40 A	SPARE	LP5-32	--
--	LP5-33	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP5-34	--
--	LP5-35	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP5-36	--
--	LP5-37	SPARE	40 A	3	--	--	--	0	0					--	--	--	3	60 A	ACCU-M1	LP5-38	--
--	LP5-39	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP5-40	--
--	LP5-41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP5-42	--
							Total Load:	2.72 kVA		2.18 kVA		2.07 kVA									
							Total Amps:	9.88		7.91		7.48									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	6.968 kVA	100.00%	6.968 kVA		
				TOTAL CONNECTED LOAD:	6.97 kVA
				TOTAL ESTIMATED DEMAND LOAD:	6.968 kVA
				TOTAL CONNECTED AMPS:	8.38 A
				TOTAL ESTIMATED DEMAND AMPS:	8.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL LP-6

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ MDP-A
LOCATION:

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
--	LP6-1	SPACE	--	1	--	--	--	--	2.18					12	12	12	1	20 A	FCU-1-25,26,27,28 - Laundry, Com.Train	LP6-2	N
--	LP6-3	SPACE	--	1	--	--	--			--	3.08			12	12	12	1	20 A	FCU-1-29,30,31,32 - Kitchen, Concess....	LP6-4	N
--	LP6-5	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	LP6-6	--
--	LP6-7	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	LP6-8	--
--	LP6-9	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	LP6-10	--
--	LP6-11	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	LP6-12	--
--	LP6-13	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	LP6-14	--
--	LP6-15	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	LP6-16	--
--	LP6-17	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	LP6-18	--
--	LP6-19	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	LP6-20	--
--	LP6-21	SPARE	60 A	3	--	--	--			0	0			--	--	--	3	45 A	ERU-M2	LP6-22	--
--	LP6-23	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP6-24	--
--	LP6-25	--	--	--	--	--	--	0	0					--	--	--	--	--	--	LP6-26	--
--	LP6-27	Lighting - Rooms E2, E3, E4, E6	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Lighting - Rooms E7, E9, E10, E11	LP6-28	--
--	LP6-29	Lighting - Rooms E12	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Lighting - Rooms E12	LP6-30	--
--	LP6-31	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Lighting - Rooms E12	LP6-32	--
--	LP6-33	Lighting - Rooms E14, E15	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Night Lights	LP6-34	--
--	LP6-35	Lighting - Rooms E16, E17, E18	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	LP6-36	--
--	LP6-37	AHU-M2	25 A	3	--	--	--	0	0					--	--	--	3	60 A	ACCU-M2	LP6-38	--
--	LP6-39	--	--	--	--	--	--			0	0			--	--	--	--	--	--	LP6-40	--
--	LP6-41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	LP6-42	--
							Total Load:	2.18 kVA		3.08 kVA		0.00 kVA									
							Total Amps:	9.07		12.34		0.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	5.258 kVA	100.00%	5.258 kVA		
				TOTAL CONNECTED LOAD:	5.26 kVA
				TOTAL ESTIMATED DEMAND LOAD:	5.258 kVA
				TOTAL CONNECTED AMPS:	6.32 A
				TOTAL ESTIMATED DEMAND AMPS:	6.3 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL LP-7

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ MDP-A
LOCATION: ELEC. H115

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	OCPD AMPS	P	LOAD DESCRIPTION	CKT NO.	KEY
	LP7-1	Lighting STO. H105	20 A	1	12	12	12	1.9	2.2					12	12	12	1	20 A	Lighting Room H203, H203	LP7-2	
	LP7-3	Lighting Room H106, H106	20 A	1	12	12	12			2.7	1.74			12	12	12	1	20 A	Lighting Room H203, H203	LP7-4	
	LP7-5	Lighting WEIGHTS H106	20 A	1	12	12	12					1.88	0.11	12	12	12	1	20 A	Pit Lighting Elev H113	LP7-6	
	LP7-7	Lighting Room H108, H107	20 A	1	12	12	12	1.67	0.11					12	12	12	1	20 A	Top Shaft Lighting Elev H113	LP7-8	
	LP7-9	Night Lights and Exit Signs - Ground Level	20 A	1	12	12	12			0.6	1.98			12	12	12	1	20 A	Lighting TRACK H202	LP7-10	
	LP7-11	Lighting - Exterior Walls and Canopies	20 A	1	12	12	12					0.38	3.09	12	12	12	1	20 A	Lighting GYM H124	LP7-12	
	LP7-13	FCU-1-33 - Fire Pump Room	20 A	1	12	12	12	0.54	2.38					12	12	12	1	20 A	Lighting GYM H124	LP7-14	
	LP7-15										2.38			12	12	12	1	20 A	Lighting GYM H124	LP7-16	
	LP7-17												3.09	12	12	12	1	20 A	Lighting GYM H124	LP7-18	
	LP7-19	Jockey Pump - Fire Pump Room	20 A	3	12	12	12	0.3												LP7-20	
--	LP7-21	--	--	--	--	--	--			0.3										LP7-22	
--	LP7-23	--	--	--	--	--	--					0.3								LP7-24	
	LP7-25	Elevator Controller	30 A	3	10	10	10	5.54												LP7-26	
--	LP7-27	--	--	--	--	--	--			5.54										LP7-28	
--	LP7-29	--	--	--	--	--	--					5.54								LP7-30	
	LP7-31	AHU-2 Supply - Roof	30 A	3	10	10	10	6.09	8.31					10	8	8	3	40 A	AHU-1 Supply - Roof	LP7-32	
--	LP7-33	--	--	--	--	--	--			6.09	8.31			--	--	--	--	--	--	LP7-34	--
--	LP7-35	--	--	--	--	--	--					6.09	8.31	--	--	--	--	--	--	LP7-36	--
	LP7-37	AHU-2 Retrun - Roof	30 A	3	10	10	10	6.09	3.32					12	12	12	3	20 A	AHU-1 Retrun - Roof	LP7-38	
--	LP7-39	--	--	--	--	--	--			6.09	3.32			--	--	--	--	--	--	LP7-40	--
--	LP7-41	--	--	--	--	--	--					6.09	3.32	--	--	--	--	--	--	LP7-42	--
							Total Load:	38.47 kVA		39.06 kVA		38.21 kVA									
							Total Amps:	139.02		141.16		137.96									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	26.094 kVA	100.00%	26.094 kVA		
Power	89.65 kVA	100.00%	89.65 kVA	**TOTAL CONNECTED LOAD:**	115.74 kVA
				TOTAL ESTIMATED DEMAND LOAD:	115.744 kVA
				TOTAL CONNECTED AMPS:	139.22 A
				TOTAL ESTIMATED DEMAND AMPS:	139.2 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

ANDERSON R. WILLIAMS
REGISTERED No. PE11800750 STATE OF INDIANA PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

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0 1 2 3
REF. SCALE IN INCHES
PROJECT #24001305.00

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR JHN
CHK ARW

ELECTRICAL PANEL SCHEDULES

E9.1

1/29/2025 11:11:03 AM

PANEL RP-3

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: CORR. G222A

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 150 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	RP3-1	SPARE	20 A	2	--	--	--	0	1					12	12	12	1	20 A	VUV-2-01 - CLASSROOM G200	RP3-2	N
--	RP3-3	--	--	--	--	--	--			0	1			12	12	12	1	20 A	VUV-2-02 - CLASSROOM G201	RP3-4	N
N	RP3-5	VUV-2-14 - CLASSROOM G217	20 A	1	12	12	12					1	1	12	12	12	1	20 A	VUV-2-03 - CLASSROOM G202	RP3-6	N
N	RP3-7	RF-1 - Roof	25 A	1	10	10	10	1.94	1					12	12	12	1	20 A	VUV-2-04 - CLASSROOM G203	RP3-8	N
N	RP3-9	RF-2 - Roof	25 A	1	10	10	10			1.94	1			12	12	12	1	20 A	VUV-2-05 - CLASSROOM G206	RP3-10	N
--	RP3-11	SPACE	--	1	--	--	--					--	1	12	12	12	1	20 A	VUV-2-06 - CLASSROOM G207	RP3-12	N
--	RP3-13	SPACE	--	1	--	--	--	--	1					12	12	12	1	20 A	VUV-2-13 - CLASSROOM G216	RP3-14	N
--	RP3-15	SPACE	--	1	--	--	--			--	0			--	--	--	1	20 A	Receptacles - Room 213	RP3-16	--
--	RP3-17	Receptacles - Room 211	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Receptacles - Room 202, 218	RP3-18	--
--	RP3-19	Receptacles - Room 200	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Receptacles - Room 209	RP3-20	--
--	RP3-21	Receptacles - Room 208	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Receptacles - Room 209	RP3-22	--
--	RP3-23	Receptacles - Room 207	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Receptacles - Room 216	RP3-24	--
--	RP3-25	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Receptacles - Room 210	RP3-26	--
--	RP3-27	Receptacles - Corridors	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	RP3-28	--
--	RP3-29	Receptacles - Room 206	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	RP3-30	--
							Total Load:	4.94 kVA		3.94 kVA		3.00 kVA									
							Total Amps:	42.41		34.08		25.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	11.888 kVA	100.00%	11.888 kVA	**TOTAL CONNECTED LOAD:**	11.89 kVA
				TOTAL ESTIMATED DEMAND LOAD:	11.888 kVA
				TOTAL CONNECTED AMPS:	33.00 A
				TOTAL ESTIMATED DEMAND AMPS:	33 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL RP-4

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: CORR. G222B

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 150 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	RP4-1	SPARE	20 A	2	--	--	--	0	1					12	12	12	1	20 A	VUV-2-07 - CLASSROOM G208	RP4-2	N
--	RP4-3	--	--	--	--	--	--			0	1			12	12	12	1	20 A	VUV-2-08 - CLASSROOM G211	RP4-4	N
--	RP4-5	SPACE	--	1	--	--	--					--	1	12	12	12	1	20 A	VUV-2-09 - CLASSROOM G212	RP4-6	N
--	RP4-7	SPACE	--	1	--	--	--	--	1					12	12	12	1	20 A	VUV-2-10 - CLASSROOM G213	RP4-8	N
--	RP4-9	SPACE	--	1	--	--	--			--	1			12	12	12	1	20 A	VUV-2-11 - CLASSROOM G214	RP4-10	N
--	RP4-11	SPACE	--	1	--	--	--					--	1	12	12	12	1	20 A	VUV-2-12 - CLASSROOM G215	RP4-12	N
--	RP4-13	SPACE	--	1	--	--	--	--	0.54					12	12	12	1	20 A	Receptacles - Roof	RP4-14	N
--	RP4-15	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Receptacles - Room 201	RP4-16	--
--	RP4-17	Receptacles - Room 203	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Receptacles - Room 200, 214	RP4-18	--
--	RP4-19	Receptacles - Room 202	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Receptacles - Room 217	RP4-20	--
--	RP4-21	Receptacles - Room 206	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Receptacles - Room 216	RP4-22	--
--	RP4-23	VAV Terminal Units	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Receptacles - Room 204	RP4-24	--
--	RP4-25	Receptacles - Corridors	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Receptacles - Room 204	RP4-26	--
--	RP4-27	Sconce - Media Center	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Smoke Dampers	RP4-28	--
--	RP4-29	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	RP4-30	--
							Total Load:	2.54 kVA		2.00 kVA		2.00 kVA									
							Total Amps:	21.17		16.67		16.67									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	6 kVA	100.00%	6 kVA	**TOTAL CONNECTED LOAD:**	6.54 kVA
Receptacles	0.54 kVA	100.00%	0.54 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	6.54 kVA
				TOTAL CONNECTED AMPS:	18.15 A
				TOTAL ESTIMATED DEMAND AMPS:	18.2 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL RP-5B

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: MECH G221

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	Existing Load	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	2	--
--	3	Gym Floor Fan	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	4	--
--	5	Exhaust Fan #M1, M15	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EWC - Corridor F17	6	--
--	7	Exhaust Fan #M16	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EWC - Corridor F17	8	--
--	9	Exhaust Fan #M17	20 A	1	--	--	--			0	0			--	--	--	1	20 A	AHU Controllers	10	--
--	11	Exhaust Fan #M13	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Network Control	12	--
--	13	Exhaust Fan #M12	20 A	1	--	--	--	0	0					--	--	--	1	20 A	CUH #M11	14	--
--	15	Exhaust Fan #M11	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Exterior Lights	16	--
--	17	Lights and Receptacles - I.T. Room	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Exterior Lights	18	--
--	19	Radio 1	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Sign	20	--
--	21	Radio 2	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EWC G204	22	--
--	23	Scoreboard	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EWC G204	24	--
--	25	Scoreboard	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Existing Load	26	--
--	27	AC - I.T. Room	20 A	2	--	--	--			0	0			--	--	--	1	20 A	Existing Load	28	--
--	29	--	--	--	--	--	--					0	1.94	10	10	10	1	25 A	RF-7 - Roof	30	N
--	31	Pole Lights - FR	20 A	1	--	--	--	0	1.94					10	10	10	1	25 A	RF-8 - Roof	32	N
--	33	SPACE	--	1	--	--	--			--	0			--	--	--	1	20 A	Existing Load	34	--
--	35	CUH #M5, #M9, #M10	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Existing Load	36	--
N	37	RF-4 - Roof	25 A	1	10	10	10	1.94	0					--	--	--	1	20 A	Existing Load	38	--
N	39	RF-3 - Roof	25 A	1	10	10	10			1.94	1.94			10	10	10	1	25 A	RF6 - Roof	40	N
--	41	SPACE	--	1	--	--	--					--	1.94	10	10	10	1	25 A	RF-5 - Roof	42	N
							Total Load:	3.89 kVA		3.89 kVA		3.89 kVA									
							Total Amps:	32.40		32.40		32.40									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	11.664 kVA	100.00%	11.664 kVA	**TOTAL CONNECTED LOAD:**	11.66 kVA
				TOTAL ESTIMATED DEMAND LOAD:	11.664 kVA
				TOTAL CONNECTED AMPS:	32.38 A
				TOTAL ESTIMATED DEMAND AMPS:	32.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL RP-8

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: CORR. G101C

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
N	RP8-1	VUV-1-01 - Rm G103; VUV-1-02 - Rm...	20 A	1	12	12	12	2.34	--					--	--	--	1	--	SPACE	RP8-2	--
N	RP8-3	VUV-1-03 - RmG105; VUV-1-04 - Rm...	20 A	1	12	12	12			2.69	--			--	--	--	1	--	SPACE	RP8-4	--
N	RP8-5	VUV-1-05 - Rm G108; VUV-1-06 - Rm...	20 A	1	12	12	12					2	--	--	--	--	1	--	SPACE	RP8-6	--
N	RP8-7	VUV-1-07 - Rm G110; VUV-1-08 - Rm...	20 A	1	12	12	12	2	0					--	--	--	1	20 A	Existing Load	RP8-8	--
--	RP8-9	NW Range	50 A	2	--	--	--			0	0			--	--	--	2	50 A	Existing Load	RP8-10	--
--	RP8-11	--	--	--	--	--	--					0	0	--	--	--	--	--	--	RP8-12	--
--	RP8-13	Existing Load	50 A	2	--	--	--	0	0					--	--	--	2	50 A	Existing Load	RP8-14	--
--	RP8-15	--	--	--	--	--	--			0	0			--	--	--	--	--	--	RP8-16	--
--	RP8-17	Computers 102C	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Monitors 102C	RP8-18	--
--	RP8-19	Computers 102C	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Monitors 102C	RP8-20	--
--	RP8-21	Printers 102C	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Monitors 102B	RP8-22	--
--	RP8-23	Computers 102C	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Monitors 102B	RP8-24	--
--	RP8-25	Computers 102C	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Wiremold SW 108	RP8-26	--
--	RP8-27	Computers 102B	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Wiremold SW 108	RP8-28	--
--	RP8-29	Computers 102B	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Wiremold SW 108	RP8-30	--
--	RP8-31	Printers 102B	20 A	1	--	--	--	0	0					--	--	--	1	20 A	Wiremold SW 108	RP8-32	--
--	RP8-33	Computers 102B	20 A	1	--	--	--			0	0			--	--	--	1	20 A	Receptacles - 108	RP8-34	--
--	RP8-35	Computers 102B	20 A	1	--	--	--					0	0	--	--	--	1	20 A	Smoke Dampers "S"	RP8-36	--
--	RP8-37	Existing Load	20 A	1	--	--	--	0	0					--	--	--	3	20 A	Existing Load	RP8-38	--
--	RP8-39	Existing Load	20 A	1	--	--	--			0	0			--	--	--	--	--	--	RP8-40	--
--	RP8-41	Existing Load "GFI Breaker"	20 A	1	--	--	--					0	0	--	--	--	--	--	--	RP8-42	--
							Total Load:	4.34 kVA		2.69 kVA		2.00 kVA									
							Total Amps:	37.08		23.28		16.67									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	9.032 kVA	100.00%	9.032 kVA	**TOTAL CONNECTED LOAD:**	9.03 kVA
				TOTAL ESTIMATED DEMAND LOAD:	9.032 kVA
				TOTAL CONNECTED AMPS:	25.07 A
				TOTAL ESTIMATED DEMAND AMPS:	25.1 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: N = NEW BREAKER IN EXISTING SPACE. MATCH RATINGS AND CONSTRUCTION OF EXISTING PANEL.

PANEL RP-10

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @ MDP-B
LOCATION: ELEC. H115

DOUBLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	RP10-1	CAB-A - Room H100, H107	20 A	1	12	12	12	0.3	0.9					12	12	12	1	20 A	Receptacles Room H205, H204	RP10-2	
	RP10-3	Receptacles Room H108, H110, H109,...	20 A	1	12	12	12			1.26	0.72			12	12	12	1	20 A	Receptacles Room H203, H203	RP10-4	
	RP10-5	Receptacles EL. H113	20 A	1	12	12	12					0.18	0.54	12	12	12	1	20 A	Receptacles Room H203, H203	RP10-6	
	RP10-7	Receptacles EL. H113	20 A	1	12	12	12	0	0.54					12	12	12	1	20 A	Receptacles CIRC. H201	RP10-8	
	RP10-9	Water Cooler MAIN LOBBY H108	20 A	1	12	12	12			0.6	0.6			12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-10	
	RP10-11	Receptacles Room H105, H124	20 A	1	12	12	12					1.44	0.6	--	--	--	--	--	--	RP10-12	--
	RP10-13	Receptacles Room H103, H124	20 A	1	12	12	12	1.26	0.6					12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-14	
	RP10-15	Receptacles Room H124, H101	20 A	1	12	12	12			1.08	0.6			--	--	--	--	--	--	RP10-16	--
	RP10-17	Receptacles Room H106, H106	20 A	1	12	12	12					1.08	0.6	12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-18	
	RP10-19	Receptacles WEIGHTS B H106	20 A	1	12	12	12	0.9	0.6					--	--	--	--	--	--	RP10-20	--
	RP10-21	Receptacles Room H106, H106, H115	20 A	1	12	12	12			0.9	0.6			12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-22	
	RP10-23	Receptacles EL. H113	20 A	1	12	12	12					0.18	0.6	--	--	--	--	--	--	RP10-24	--
	RP10-25	Cab Power - EL H113	20 A	1	12	12	12	0	0.6					12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-26	
	RP10-27	EWC - CIRC. H205	20 A	1	12	12	12			0.18	0.6			--	--	--	--	--	--	RP10-28	--
	RP10-29	DUH-1 Lights; Roof Receptacle	20 A	1	12	12	12					0.18	0.6	12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-30	
	RP10-31	EF-1 - Roof	20 A	1	12	12	12	0	0.6					--	--	--	--	--	--	RP10-32	--
	RP10-33	AHU-1 & 2 Lights; Roof Receptacles	20 A	1	12	12	12			1.08	0.6			12	12	12	2	20 A	Basketball Goal Winch - GYM H124	RP10-34	
	RP10-35	Receptacles - Fire Pump Room	20 A	1	12	12	12					0.54	0.6	--	--	--	--	--	--	RP10-36	--
	RP10-37	Fire Pump Exterior Bell	20 A	1	12	12	12	0.18	0.6					12	12	12	2	20 A	Divider Curtain - GYM H124	RP10-38	
	RP10-39	CP-AHU1-RHC - Roof	20 A	1	12	12	12			0.83	0.6			--	--	--	--	--	--	RP10-40	--
	RP10-41	CP-AHU1-CC - Roof	20 A	1	12	12	12					0.83	0.6	12	12	12	2	20 A	Batting Cage Curtain - GYM H124	RP10-42	
	RP10-43	CP-AHU1-PHC - Roof	20 A	1	12	12	12	0.83	0.6					--	--	--	--	--	--	RP10-44	--
	RP10-45	CP-AHU2-CC - Roof	20 A	1	12	12	12			1.6	0.6			12	12	12	2	20 A	Batting Cage Curtain - GYM H124	RP10-46	
	RP10-47	CP-AHU2-HC - Roof	20 A	1	12	12	12					0.67	0.6	--	--	--	--	--	--	RP10-48	--
	RP10-49	CP-DHU1-HC - Roof	20 A	1	12	12	12	0.83	0					12	12	12	1	20 A	Scoeboard - GYM H124	RP10-50	
	RP10-51	UH-AHU1	20 A	2	12	12	12			1.51	0			12	12	12	1	20 A	Scoeboard - GYM H124	RP10-52	
--	RP10-53	--	--	--	--	--	--					1.51	0	12	12	12	1	20 A	Scoeboard - GYM H124	RP10-54	
	RP10-55	UH-AHU2	20 A	2	12	12	12	1.51	0					12	12	12	1	20 A	Scoeboard - GYM H124	RP10-56	
--	RP10-57	--	--	--	--	--	--			1.51	0.36			12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-58	
	RP10-59	UH-DHU1	20 A	2	12	12	12					1.51	1.2	12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-60	
--	RP10-61	--	--	--	--	--	--	1.51	1.2					12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-62	
	RP10-63	UH-1 - Storage H116	35 A	2	8	8	10			2.5	1.38			12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-64	
--	RP10-65	--	--	--	--	--	--					2.5	1.2	12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-66	
	RP10-67	Receptacles - Display MAIN LOBBY...	20 A	1	12	12	12	0.36	0.72					12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-68	
--	RP10-69	SPARE	20 A	1	--	--	--			0	0.72			12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-70	
--	RP10-71	SPARE	20 A	1	--	--	--					0	0.72	12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-72	
--	RP10-73	SPARE	20 A	1	--	--	--	0	0.72					12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-74	
--	RP10-75	SPARE	20 A	1	--	--	--			0	0.72			12	12	12	1	20 A	Receptacles FITNESS / MULTI-USE A...	RP10-76	
--	RP10-77	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	RP10-78	--
--	RP10-79	SPARE	20 A	1	--	--	--	0	0					--	--	--	1	20 A	SPARE	RP10-80	--
--	RP10-81	SPARE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	SPARE	RP10-82	--
--	RP10-83	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	RP10-84	--
							Total Load:	15.36 kVA		21.15 kVA		18.48 kVA									
							Total Amps:	128.00		180.25		158.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	32.85 kVA	100.00%	32.85 kVA	**TOTAL CONNECTED LOAD:**	54.99 kVA
Receptacles	22.14 kVA	72.58%	16.07 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	48.92 kVA
				TOTAL CONNECTED AMPS:	152.64 A
				TOTAL ESTIMATED DEMAND AMPS:	135.8 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

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REF. SCALE IN INCHES
PROJECT #24001305.00

ANDERSON R. WILLIAMS
REGISTERED
No. PE11800750
STATE OF INDIANA
PROFESSIONAL ENGINEER
01.31.25

HS/MS FIELDHOUSE ADDITION & HVAC SCHOOL IMPROVEMENTS - VOL.1
NORTH PUTNAM COMMUNITY SCHOOLS
8869 COUNTY ROAD 250 E
ROACHDALE, IN 46172

WILLIAMS ARCHITECTS

REVISIONS

NO.	DATE	DESCRIPTION

WA No. 2024-006
Date 31 JAN 2025
Issue 100% CON CD
DWR JHN
CHK ARW

ELECTRICAL PANEL SCHEDULES

E9.2

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