Northeast School Corporation
NORTH CENTRAL HIGH SCHOOL
2016-100.ITR
910 E. Co. Rd. 975 N.
Farmersburg, IN 47850

03.27.2020

2016-100.ITR

Drawing Index

General Notes

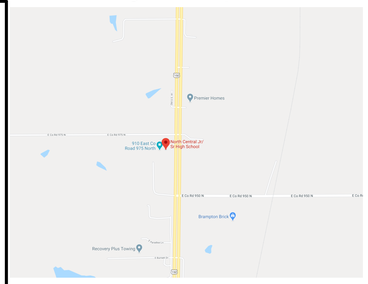
Nothing set forth in these Drawings shall release any Contractor from responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or waive the Contractor's responsibility to identify and resolve deviations from the requirements of the Contract Documents, or waive the Contractor's responsibility to alert the Architect to errors or omissions contained therein.
Each Contractor shall verify in the field all existing applicable conditions and dimensions shown on the Drawings and as pertinent to the intent of these Drawings. Any discrepancy discovered shall be brought to the attention of the Architect prior to the commencement of any Work affected by, or related to, such discrepancy.
Each Contractor shall be responsible for all costs associated with, or caused by failure to comply with requirement.
Each Contractor shall review in advance all portions of the Work to verify that the Work will not prohibit completion of the Project as intended in these Contract Documents. Any questions shall be promptly referred to the Architect for resolution.

Each Contractor shall refer to the Project Manual for cleaning and disposal requirements.
Each Contractor shall be responsible for the protection of all surfaces and finishes at interior and exterior of building. Damaged surfaces and finishes resulting from the performance of the Work shall be repaired at no cost to the Owner by the responsible Contractor to match existing to the satisfaction of the Owner.
Each Contractor shall coordinate respective cutting and patching Work with the other Prime Contracts.
Each Contractor shall become completely familiar with all aspects of the Work, even those areas designated to be provided by others. This familiarization includes full and complete understanding of the Work described on all Sheets of the Drawings and in all Sections of the Project Manual. Failure by the Contractor to become completely familiar and cognizant of all aspects of the Work shall not relieve the Contractor of the responsibility to provide materials, assemblies, or services indicated in the Contract Documents.

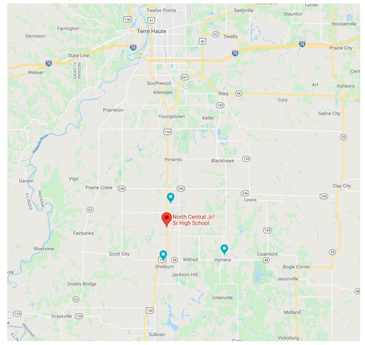
SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO.
AR10400134
STATE OF
INDIANA
ARCHITECT

Sarah K Hempstead

Vicinity Map



Thoroughfare Map



SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Northeast School Corporation
NORTH CENTRAL HIGH SCHOOL

G-000

Abbreviations

A LABEL	Class A door	JAN	janitor
A/E	architect/engineer	JAN CLO	janitor closet
ADA	Americans with Disabilities Act		
ADD	addendum	KD	knock down
ADMIN	administration	KIT	kitchen
AFF	above finished floor	KO	knockout
ALUM	aluminum		
AMT	amount	LAM	laminate
APPROX	approximate	LAM GL	laminated glass
APT	apartment	LAQ	lacquer
ARCH	Architect	LAU	laundry
ASI	Architect's Supplemental Instruction	LAV	lavatory
ASSN	association	LC	laundry chute
ASSY	assembly	LDG	landing
ASTM	American Society for Testing and Materials	LED	light emitting diode
AVE	avenue	LF	linear feet (foot)
AVG	average	LF INS	loose fill insulation
AWI	Architectural Woodworking institute	LH	left hand
		LHR	left hand reverse
B LABEL	Class B door	LIB	library
BD	board	LKR RM	locker room
BFC	below finished ceiling	LN	lane
BFF	below finish floor	LOC	location
BITUM	bituminous	LRG	large
BLDG	building	LT	light
BLKHD	bulkhead	LT GA	light gauge
BLVD	boulevard	LVDR	louver door
BOCA	Building Officials and Code Administrators Association International	MAINT	maintenance
BOT	bottom	MAN	manual
BRG	bearing	MATL	material
BRG PL	bearing plate	MAX	maximum
BSMT	basement	MB	marker board
		MC	Mechanical Contractor
CAB	cabinet	MCH	mail chute
CB	chalk board	MD	metal deck
CB	ceramic base	MDO	medium density overlay
CCTV	closed circuit television	MEAS	measure
CD	construction documents	MECH	mechanical
CD	contract documents	MECH RM	mechanical room
CEM PLAS	cement plaster	MED	medium
CEM PLAS CLG	cement plaster ceiling	MEL	melamine
CIP	cast-in-place	MEMB	membrane
CJ	construction joint	MEZZ	mezzanine
CJ	control joint	MFD	manufactured
CL	center line	MFG	manufacturing
CLG	ceiling	MFR	manufacturer
CLG HT	ceiling height	MFR REC	manufacturer's recommendation
CLO	closet	MGT	management
CLR	clear	MIN	minimum
CMU	concrete masonry unit	MIRR	mirror
CNTR	counter	MISC	miscellaneous
CNTRTP	countertop	ML	metal lath
COL	column	MLDG	molding (moulding)
CONC	concrete	MLWK	millwork
CONC FLR	concrete floor	MO	masonry opening
CONF	conference	MT	mount
CONSTR	construction	MTD	mounted
COORD	coordinate	MTG	mounting
CORR	corridor	MTL	metal
CPT	carpet	MULL	mullion
CSI	Construction Specifications Institute		
CSMT	casement	NA	not applicable
CSWK	casework	NBC	National Building Code
CT	ceramic tile	NEC	National Electric Code
CTB	ceramic tile base	NFC	National Fire Code
CTF	ceramic tile floor	NIBS	National Institute of Building Sciences
CTR	center	NIC	not in contract
CU FT	cubic feet	NO	number
CU IN	cubic inch	NOM	nominal
CUB	cubicle	NTS	not to scale
CUST	custodian		
		O/O	out to out
D LABEL	Class D door	OC	on center
DAT	datum	OD	outside diameter
db	decibel	OD	outside dimension
DBL	double	OFC	office
DBL ACT DR	double acting door	OFD	overflow drain
DBL GLZ	double glaze	OPNG	opening
DEG	degree	OPP	opposite
DEG C	degrees Celsius	ORD	overflow roof drain
DEG F	degrees Fahrenheit	ORIG	original
DEL	delete	OSHA	Occupational Safety and Health Administration
DEMO	demolition		
DEPT	department	PARG	parging
DET	detail	PART	partial
DF	drinking fountain	PBD	particleboard
DH	double hung (door, window)	PCT	percent
DIA	diameter	PERF	perforated
DIAG	diagonal	PKG	package
DIFF	diffuser	PLAS LAM	plastic laminate
DIM	dimension	PLYWD	plywood
DIR	direction	PNL	panel
DISP	dispenser	PORC	porcelain
DIV	division	PR	pair
DJ	double joist	PREFAB	prefabricated
DN	down	PREFIN	prefinish
DR	door	PREFMD	preformed
DS	down spout	PREP	preparation
DWG	drawing	PRKG	parking
DWR	drawer	PROJ	project
		PT	paint
E LABEL	Class E door	PT CONC	post-tensioned concrete
EA	each		
EC	Electrical Contractor	R	radius
EFS	exterior finish system	RB	resilient base
EIFS	exterior insulation and finish system	RCP	reflected ceiling plan
EJ	expansion joint	RD	roof drain
EL/ ELEV	elevation	REBAR	reinforcing steel bars
ELEC	electric	RECD	received
ELEV	elevator	RECPT	receptacle
EMER	emergency	REF	reference
ENAM	enamel	REF	refrigerator
ENCL	enclosure	REINF	reinforced
ENTR	entrance	REQ	require
EOS	edge of slab	REQD	required
EPDM	ethylene propylene diene monomer	REST	restroom
EQ	equal	RFI	request for information
EQUIP	equipment	RFP	request for proposal
EQUIV	equivalent	RH	right hand
ESCAL	escalator	RH	roof hatch
ESMT	easement	RHR	right hand reverse
EST	estimate	RM	room
ECT	et cetra	RO	rough opening
EXIST	existing	RTG	rating
EXP JT	expansion joint	RTU	roof top unit
FAB	fabric		
FAS	fascia		
FAS BD	fascia board		
FC	file cabinet		
FD	floor drain		
FDTN	foundation		
FE	fire extinguisher		
FEC	fire extinguisher cabinet		
FED	federal		
FH	fire hose		
FH	fire hydrant		
FHC	fire hose cabinet		
FIG	figure		
FIN	finish		
FIN FLR	finish floor		
FIN GR	finish grade		
FIN WD	finish wood		
FIXT	fixture		
FLASH	flashing		
FLG	flooring		
FLMT	flush mount		
FLR	floor		
FLR FIN	floor finish		
FLUT CMU	fluted concrete masonry unit		
FOC	face of concrete		
FOF	face of finish		
FOM	face of masonry		
FOS	face of slab		
FOUND	foundation		
FOW	face of wall		
FPC	Fire Protection Contractor		
FR	fire resistant		
FRC	fiber reinforced concrete		
FRG	fiber reinforced gypsum		
FRP	fiberglass reinforced plastic		
FRZ	freezer		
FT	feet, foot		
FTG	footing		
FTR	finned tubed radiation		
FURG	furring		
FURN	furniture		
FWC	fabric wall covering		
GA	gauge		
GAL	gallon		
GALV	galvanized		
GC	General Contrator		
GFRC	glass-fiber-reinforced concrete		
GFRG	glass-fiber-reinforced gypsum		
GFRP	glass-fiber-reinforced plaster		
GFRP	glass-fiber-reinforced plastic		
GL BLK	glass block		
GLU LAM	glue laminated wood		
GOVT	government		
GWB	gypsum wallboard		
HAZ	hazard		
HAZ MAT	hazardous materials		
HC	handicap		
HC	hose cabinet		
HCWD	hollow core wood door		
HD	hand dryer		
HDBD	heavy duty hardboard		
HDO	high density overlay		
HDW	hardware		
HDWD	hardwood		
HM	hollow metal		
HORIZ	horizontal		
HQ	headquarters		
HR	hour		
HT	height		
HTR	heater		
HWY	highway		
HVAC	heating, ventalation and air conditioning		
IBC	International Building Code		
ID	inside diameter		
ID	inside dimension		
IN	inch/ inches		
INSTL	install		
INSTR	instrument		
INSUL	insulation, (e), (ed)		
INT	interior		
SAT	suspended acoustical tile		
SATC	suspended acoustical tile ceiling		
SCD	seat cover dispenser		
SCH	school		
SCHED	schedule		
SCHEM	schematic		
SCWD	solid core wood door		
SD	smoke detector		
SD	soap dispenser		
SECT	section		
SF	square foot (feet)		
SFTWD	softwood		
SHR	shower		
SHT	sheet		
SIM	similar		
SLNT	sealant		
SM	small		
SPEC	specification		
SPKLR	sprinkler		
SPKR	speaker		
SQ	square		
SQIN	square inch		
SQ YD	square yard		
SS	stainless steel		
ST	street		
STA	station		
STD	standard		
STL	steel		
STL JST	steel joist		
STL LNTL	steel lintel		
STL PL	steel plate		
STL RF DK	steel roof deck		
STL TB	steel tube		
STL TR	steel truss		
STOR	storage		
STR	stair(s)		
STRUCT	structural		
STRUCT	STL structural steel		
SUPP	supplement		
SURF	surface		
SURR	surround		
SURV	survey		
SUSP	suspend		
SUSP CLG	suspended ceiling		
SV	sheet vinyl		
SVC	service		
SWR	sewer		
SYS	system		
T&G	tongue and groove		
T/O	top of		
TAN	tangent		
TB	tack board		
TB	towel bar		
TC	terra cotta		
TD	towel dispenser		
TECH	technical		
TEL	telephone		
TEMP	temperature		
TEMP	temporary		
TEMP	tempered glass		
TER	terrazzo		
TFA	to floor above		
TFB	to floor below		
TFF	top of finish floor		
THK	thickness		
THRES	threshold		
THRU	through		
THRUOUT	throughout		
TI	tapered insulation		
TOS	top of steel		
TOM	top of masonry		
TPD	toilet paper dispenser		
TR	towel rack		
TRANS	transom		
TRANS	transparent		
TS	tube steel		
TV	television		
TYP	typical		
UBC	Uniform Building Code		
UFC	Uniform Fire Code		
UL	Underwriters Laboratories		
UMC	Uniform Mechanical Code		
UNO	unless noted otherwise		
UPC	Uniform Plumbing Code		
UPS	uninterruptible power supply		
UTIL	utility		
VAR	variation		
VAR	varies		
VB	vinyl base		
VCT	vinyl composition tile		
VCT	vitrified clay tile		
VEH	vehicle		
VERT	vertical		
VEST	vestibule		
VIF	verify in field		
VOL	volume		
VP	veneer plaster		
VR	vapor retarder		
VTR	vent through roof		
VWC	vinyl wall covering		
VWF	vinyl wall fabric		
W CAB	wall cabinets		
W/	with		
W/O	without		
WB	wood base		
WC	wall covering		
WD	wood		
WH	weep hole		
WHSE	warehouse		
WO	where occurs		
WP	working point		
WSCT	wainscot		
WT	weight		

General Refl. Ceiling Plan Notes

A. All ceilings are at 8'-4" AFF, unless noted otherwise.

B. All bulkheads are at 8'-0" AFF, unless noted otherwise.

C. All grids are centered in rooms, unless noted otherwise.

D. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

E. Locate sprinkler heads in center of ceiling panel - where applicable.

F. Coordinate ceiling removal and re-installation of Mechanical, Electrical, Plumbing and Technology work. Replace all broken tile and grid to match existing.

Life Safety Notes

A. Project is a renovation of an existing elementary school, originally constructed prior to 1975 with additions in 1983.
B. Existing building area is approximately 88,000 sf.
C. Not used.
D. When corridor doors are replaced in schools where a fire rating was not required by the code of record, this has been generally enforced as a "repair" or "replacement" per 675 IAC 12-4-9 (a), permits such repair or replacement to be in accordance with the code of record for the building. Therefore, where existing nonrated doors/hardware are replaced, such replacement is permitted to be with new nonrated doors, including the use of louvers for return air, etc. If an entirely new corridor door is installed (new frame, door, etc.) where one did not previously exist, the door is required to meet current Code (2014 Indiana Building Code) since considered "new construction".

General Demolition Notes

A. Contractor shall field-verify all existing conditions, dimensions, and arrangements.

B. Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.

C. Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.

D. All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.

E. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to receive new construction shall be patched and repaired as required to cleanly receive new work.

F. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to remain exposed after completion of new const. shall be repaired and patched as required to receive new finishes.

G. Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.

H. Refer to Mech./Elec. Drawings for additional patching and preparation work related to M.E.P. demolition items.

I. Existing sleeves, holes, and other penetrations or new damage of existing building structure above grade exposed by demolition and removal of piping, appurtenances, equipment shall be patched and repaired as part of the Work. Maintain fire ratings of all and adjacent construction affected.

J. Cap all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piping.

K. Each Contractor is responsible for all demolition work required or noted for installation of new Work. Demolition may include associated distribution systems, appurtenances, equipment supporting controls, and miscellaneous supports, unless noted otherwise.

L. Coordinate all demolition with Project sequencing as directed by General Contractor or Construction Manager.

M. Salvage existing structural glazed facing tile for reuse.

N. Evaluate existing painted surfaces for its ability to accept new paint. Where required for paint adhesion, grind all CMU.

O. See structural drawings for work associated with existing tunnel.

General Plan Notes

A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. Dimensions for all openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. All exposed outside corners of CMU shall be bullnosed.

F. Seal all joints between dissimilar materials.

G. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

H. Where new floors meet existing floors, a smooth, straight, and flush transition shall be constructed. Verify in field existing floor elevations and conditions where a new floor shall be constructed adjacent. Trim and patch existing floor as required to achieve desired transition.

I. Not used.

J. All interior walls are Type "M8-D", unless noted otherwise.

K. Base elevation is indicated as 0'-0". See Civil drawings for United States Geological Survey data.

L. Hatching within walls shown in plans and sections indicates new construction.

M. All new penetrations through corridor walls are to be 1HR rated, including Mechanical, Electrical, Plumbing or Technology penetrations. Provide fire stopping and rated dampers as required.

N. Where new structural glazed tile is used, match existing size and color.

General Roof Plan Notes

A. 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.

Component Symbols

LIGHT FIXTURE IN CEILING GRID

RETURN AIR

SUPPLY AIR

EXIT LIGHT

ROOF/OVERFLOW DRAIN

SINK — DOUBLE, SINGL, UTILIT

LAVATORY — 2 GANG, 3 GANG, COUNTERTO, WALL HUNG

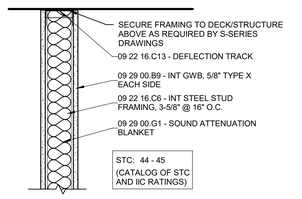
TOILET — WALL HUNG, FLOOR MOUNT

URINAL

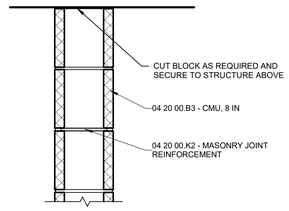
FLOOR DRAIN

REFLECTED CEILING PLAN LEGEND

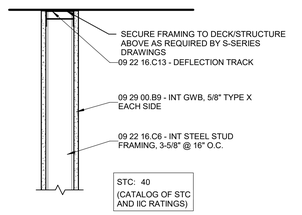
APC-1	2' X 2' Acoustical Panel Ceiling (09 51 13)		Light Fixture (Reference E-Series Dwgs)
			Return Air (Reference M-Series Dwgs)
			Supply Air (Reference M-Series Dwgs)
GWB-1	1 HR RATED ASSEMBLY UL L544		Exit Light (Reference E-Series Dwgs)
GWB-2	NON-RATED Gypsum Board on 3-5/8" metal stud framing @ 16" o.c.		Recessed Light Fixture Suspended Fixture in Areas with Exposed Ceilings (Reference E-Series Dwgs)
Walls to Deck			



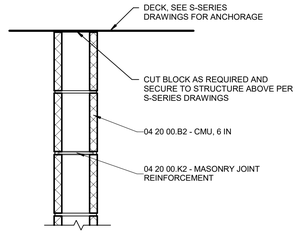
3B **S4iD WALL TYPE**
1 1/2" = 1'-0"



2B **M8-D WALL TYPE**
1 1/2" = 1'-0"



3A **S4-D WALL TYPE**
1 1/2" = 1'-0"



2A **M6-D WALL TYPE**
1 1/2" = 1'-0"

Material Symbols

CONCRETE MASONRY UNIT

FACE BRICK

EARTH

CONCRETE

PLYWOOD

METAL/STEEL

FINISHED WOOD TRIM

WOOD BLOCKING

WOOD SHIM

INSULATION (LOOSE OR BATT.)

INSULATION (RIGID)

GYPSUM BOARD / PLASTER

Reference Symbols

TITLE MARK — 1 View Name, 1/8" = 1'-0"

SECTION MARK — 1 / A101, SIM

ELEVATION MARK — Ref / A101, DETAIL REFERENCE, SHEET REFERENCE

CUT LINE

DETAIL MARK — 1 / A101, SIM

PLAN NOTE DESIGNATION — #

WHEELCHAIR CLEARANCE RADIUS — ADA

WALL DESIGNATION — 1t

DOOR NUMBER — 101, Door Number, Hardware Set, Door Label, Panel Type

WINDOW NUMBER — 1t

FURNITURE — 1t

COLUMN DESIGNATION — FB

NORTH ARROW — N

ROOM TAG — Room name, 101

UNIT MATCHLINE — UNIT A / UNIT B

DEMOLITION NOTE — #

REVISION TAG

DATUM POINT

KEYNOTE LABEL — Specification Reference, Unique Identifier (Not A Reference), 00 00 00.B9

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
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www.schmidt-arch.com

Project No. 2016-100.ITR
Project Date 03.27.2020
Produced TE CM

SARAH KATHLEEN HERSTEAD — REGISTERED — NO. AR10400134 — STATE OF INDIANA — ARCHITECT

#	Revision	Date
A2	Addendum 2	10.23.2018

910 E. Co. Rd. 975 N.
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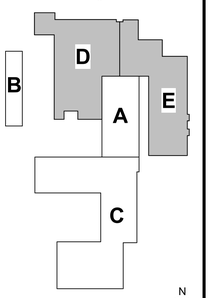

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

ARCHITECTURAL GENERAL NOTES AND ABBREVIATIONS

A-001-HS

A-001-HS_ARCHITECTURAL GENERAL NOTES AND ABBREVIATIONS
2016-100.ITR_Northeast School Corporation_NORTH CENTRAL HIGH SCHOOL
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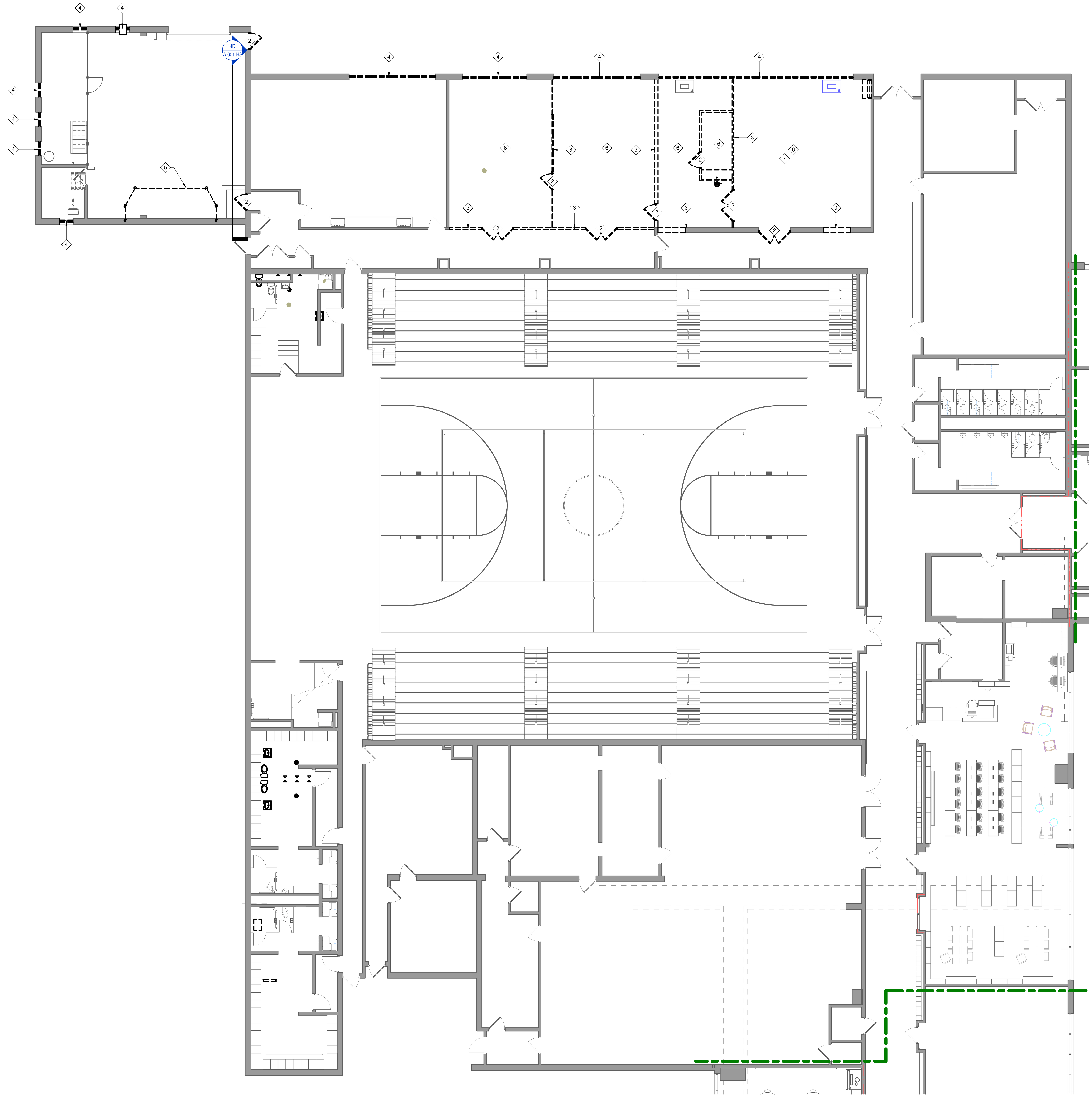

2A FIRST FLOOR DEMOLITION PLAN - UNIT D
1/8" = 1'-0"

DEMOLITION FLOOR PLAN NOTES

#	NOTE
1	SAW CUT OPENING FOR NEW DOOR OR WINDOW; REFERENCE FLOOR PLANS FOR DIMENSIONS.
2	REMOVE EXISTING DOOR, FRAME, AND HARDWARE.
3	REMOVE EXISTING INTERIOR PARTITION.
4	REMOVE EXISTING WINDOW; PREP OPENING FOR NEW WORK.
5	REMOVE EXISTING CHAIN-LINK FENCE.
6	REMOVE EXISTING FLOOR FINISH & WALL BASE.
7	REMOVE EXISTING CEILING FINISH.
10	REMOVE EXISTING BORROWED LITE FRAME AND GLAZING; PREP OPENING FOR NEW WORK.

SCHMIDT ASSOCIATES
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www.schmidt-arch.com

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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date

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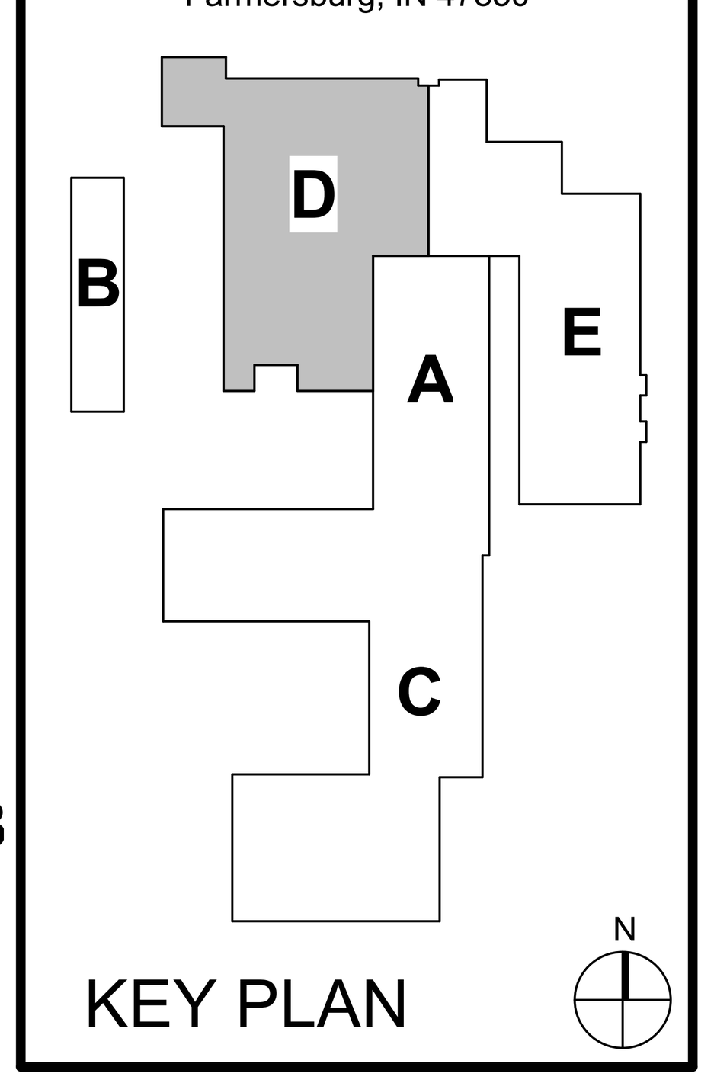

KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

FIRST FLOOR DEMOLITION PLAN - UNIT D

AD1D1-HS

2A FIRST FLOOR PLAN - UNIT D
1/8" = 1'-0"

FLOOR PLAN NOTES

#	Note
1	092900 - 2-1/2" METAL STUD FRAMING @ 16" O.C. UP TO WINDOW SILL W/ 5/8" TYPE "X" GWB ON ONE SIDE AND TOP.

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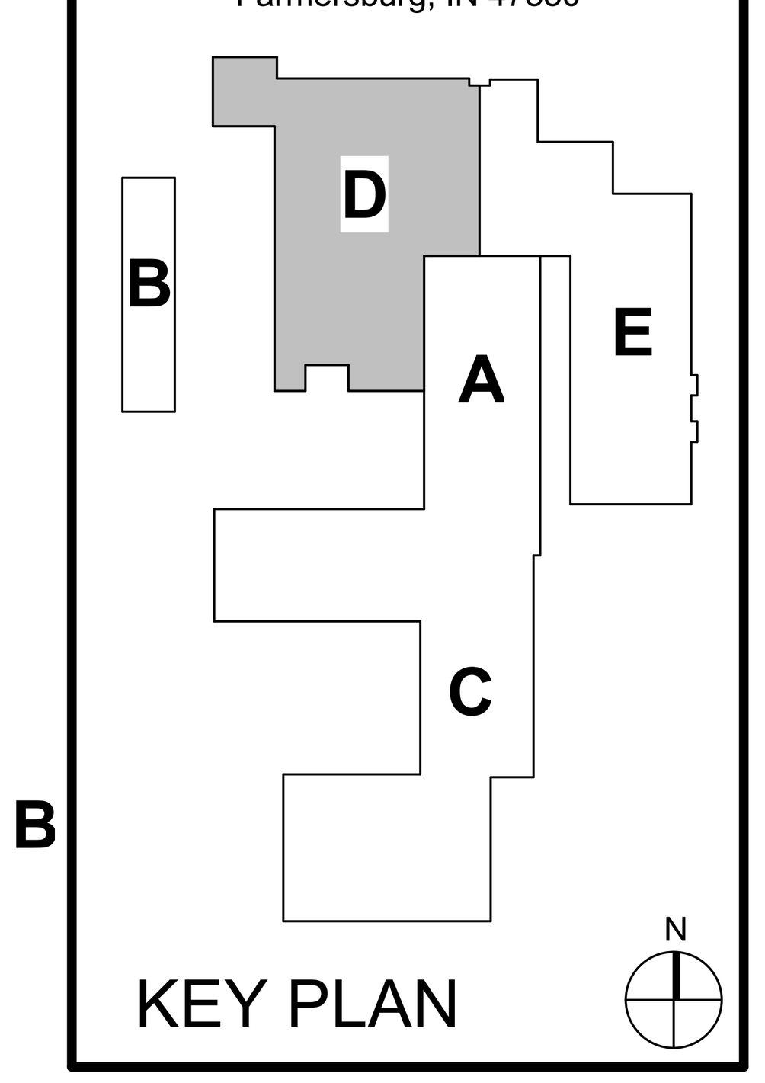


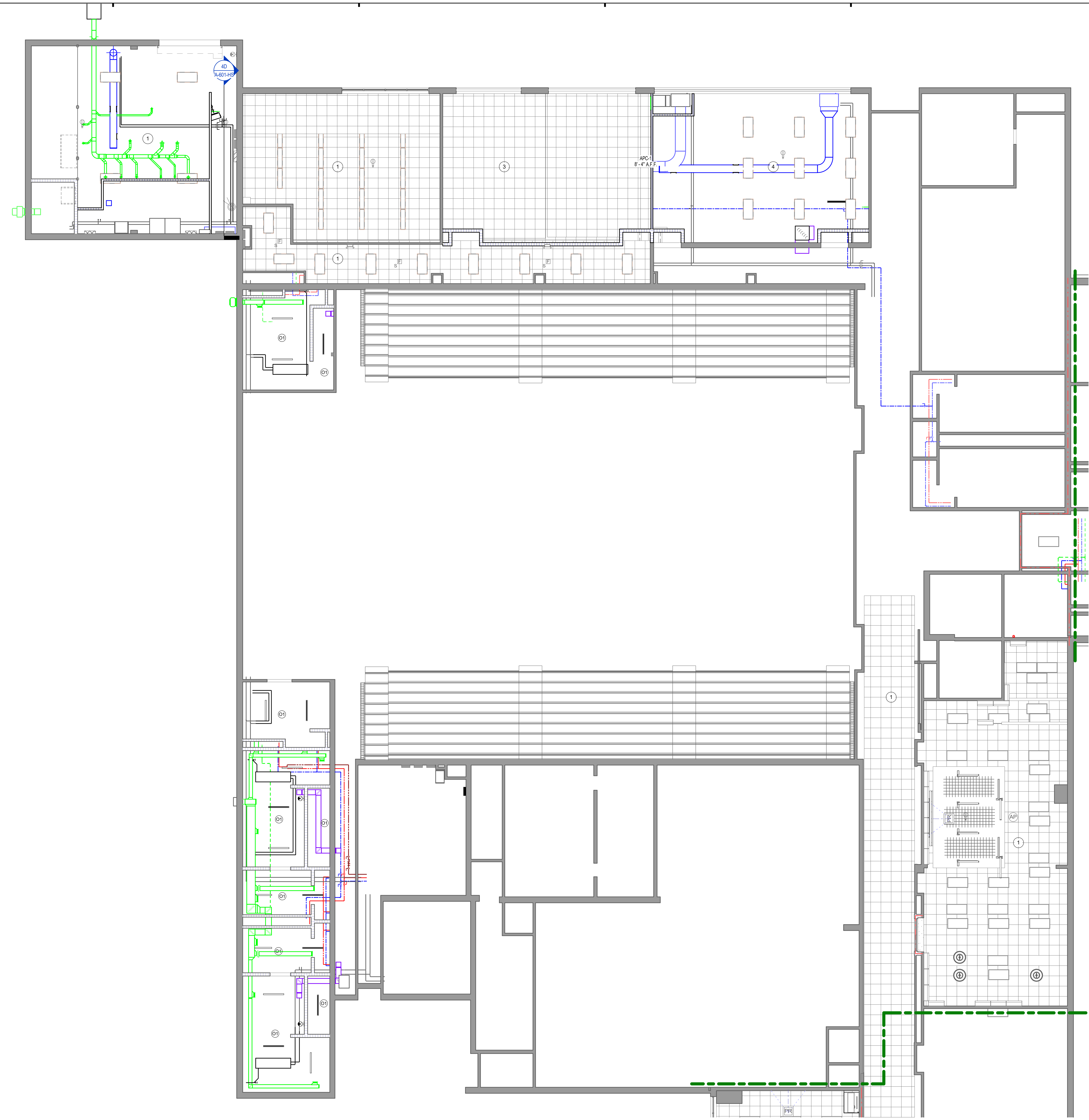
KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

FIRST FLOOR PLAN - UNIT D

AF1D1-HS



2A FIRST FLOOR REFLECTED CEILING PLAN - UNIT D
1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

#	NOTE
1	EXISTING CEILING TO REMAIN.
2	09 29 00 - GWB BULKHEAD.
3	EXISTING CEILING TO REMAIN; SUPPLEMENT EXISTING GRID TO EXTEND TO NEW WALL CONFIGURATION; PROVIDE NEW ACOUSTICAL PANELS (REF. APC-1).
4	PAINT EXPOSED UNDERSIDE OF DECK, INCLUDING DUCTWORK, CONDUIT, PIPING; REFERENCE INTERIORS DRAWINGS.

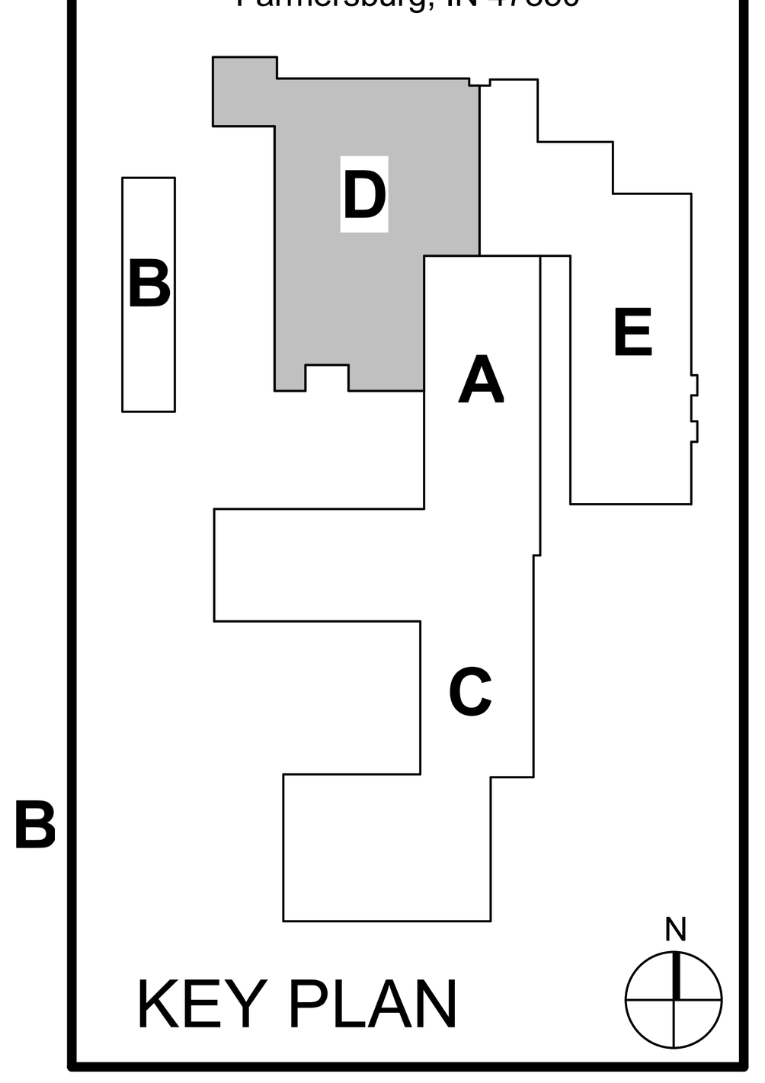
SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2016-100.ITR
Project Date 03.27.2020
Produced Designer RJB

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date

910 E. Co. Rd. 975 N.
Farmersburg, IN 47850



KEY PLAN

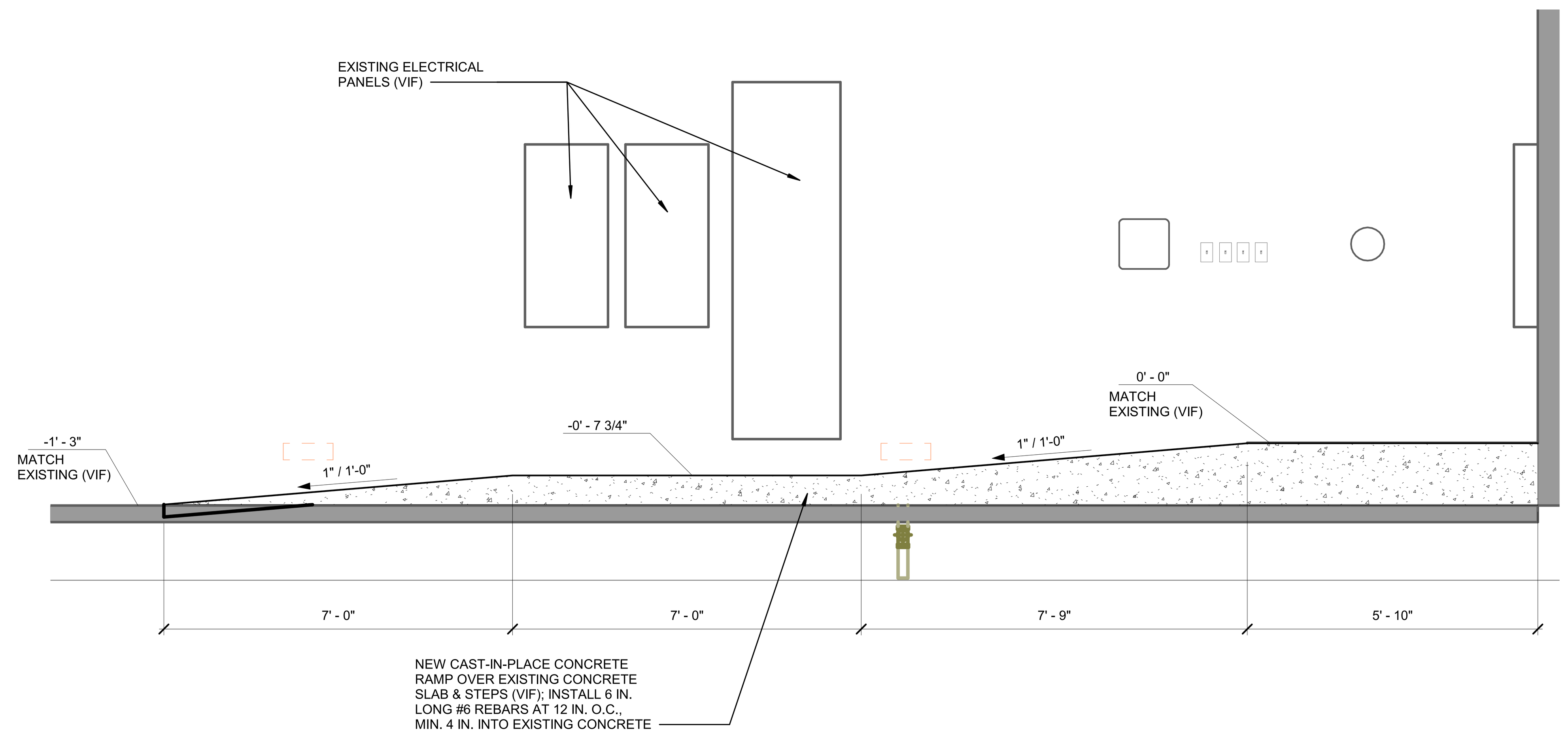
Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

FIRST FLOOR RELFECTED CEILING PLAN - UNIT D

AC1D1-HS

DOOR & FRAME SCHEDULE													
	DOOR PANEL						FRAME						
				SIZE									
MARK	TYPE	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES	MARK
138.1	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--	20 MIN	10		138.1
138.2	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--	20 MIN	10		138.2
138.3	F	WD	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--				138.3
140.1	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--	20 MIN	10		140.1
140.2	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--	20 MIN	10		140.2
142.1	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--	20 MIN	10	3	142.1
142.2	F	HM	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		10	3	142.2
142B.1	F	HM	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		10		142B.1
142B.2	F	HM	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		10		142B.2



4D RAMP SECTION
1/2" = 1'-0"

DOOR AND FRAME GENERAL NOTES

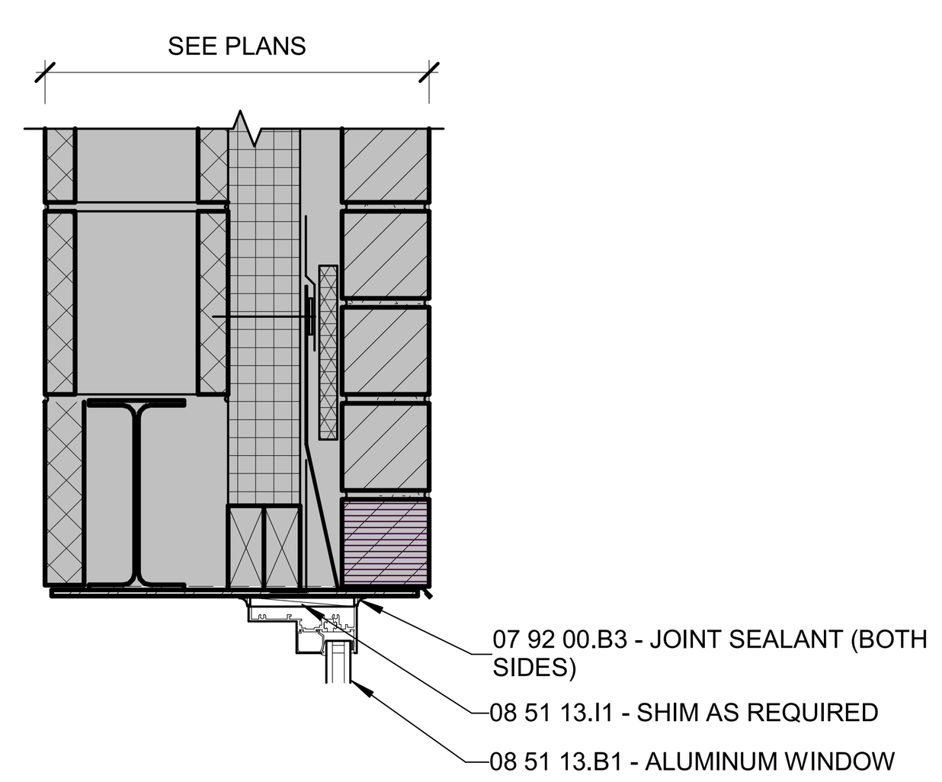
A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.
B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.
C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.
D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.
E. Verify locksets with the Owner during submittals.
F. Phase column: Existing = existing door, frame, and hardware to remain. Phase 1 = New door, frame, and hardware. Reference Hardware Sets for scope of work.
G. G. Reference Section 087100 for Hardware Sets for existing doors to remain not indicated in Door & Frame Schedule.

ABBREVIATIONS

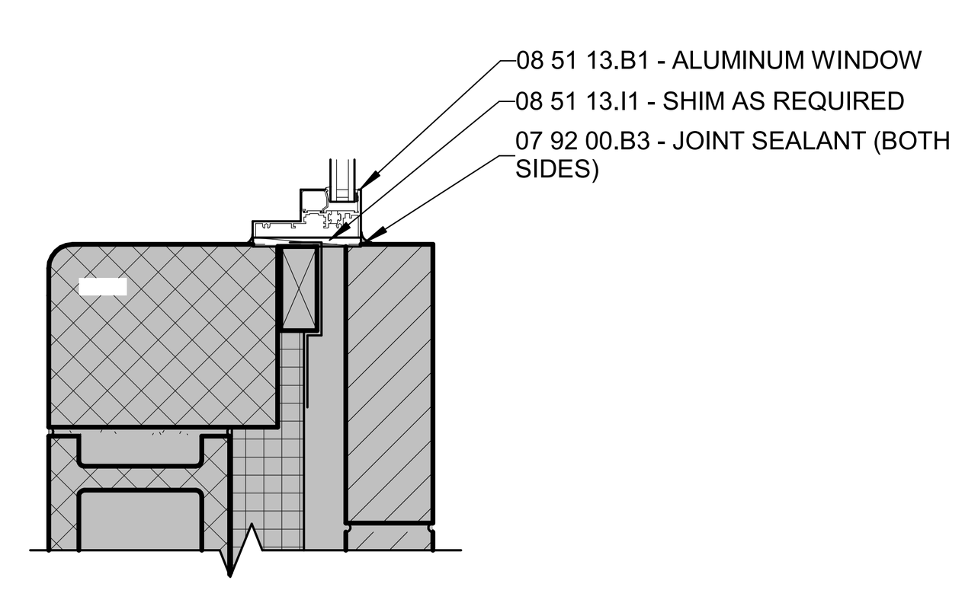
AL Aluminum
HM Hollow Metal
ST Steel
WD Wood
TG Tempered Glazing
IG Insulated Glazing

DOOR & FRAME SCHEDULE NOTES

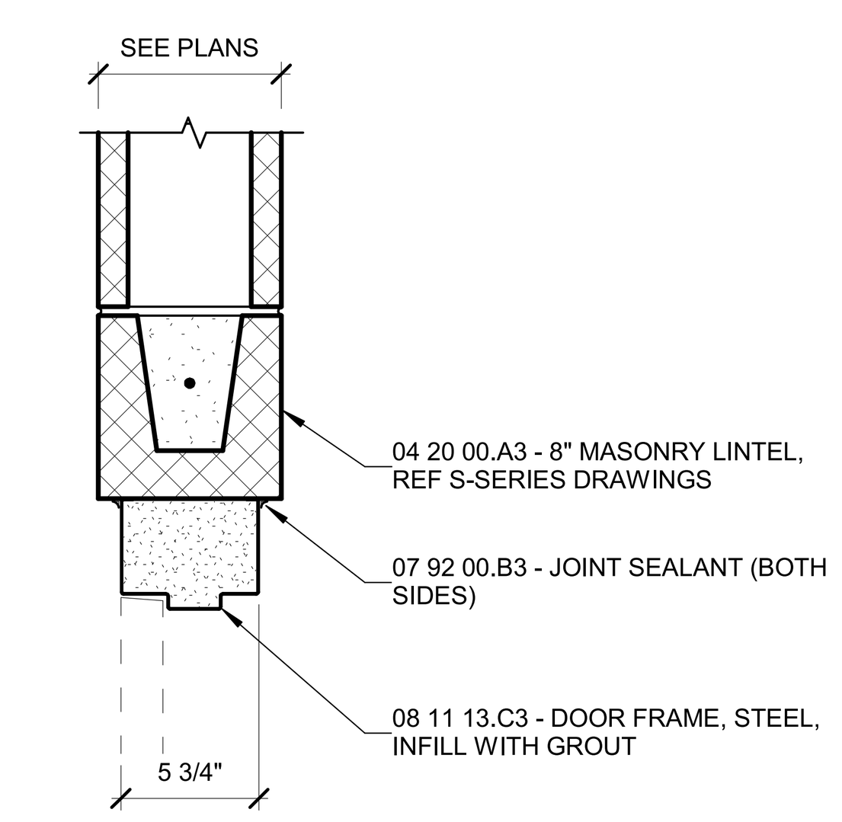
1. Existing door, frame, and hardware to remain. New electrified hardware only; coordinate with Electrical and Telecomm Drawings. Field verify all existing door and frame information as required for installation of new hardware; modify existing frame as required.
2. New hardware in existing door and frame, with balance of existing hardware to remain. Field verify all existing door conditions.
3. New door, frame, and hardware in existing masonry opening. Remove existing door/window frame as requried for new work. Field verify all existing conditions.
4. Opening is part of PR-01.



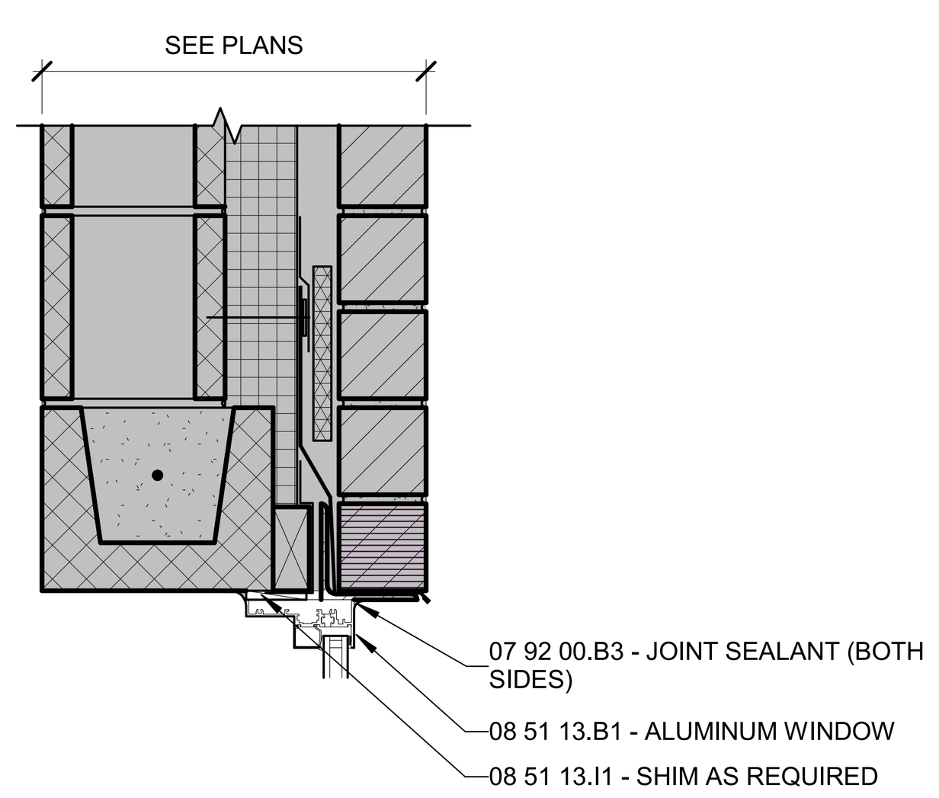
5C HEAD
1 1/2" = 1'-0"



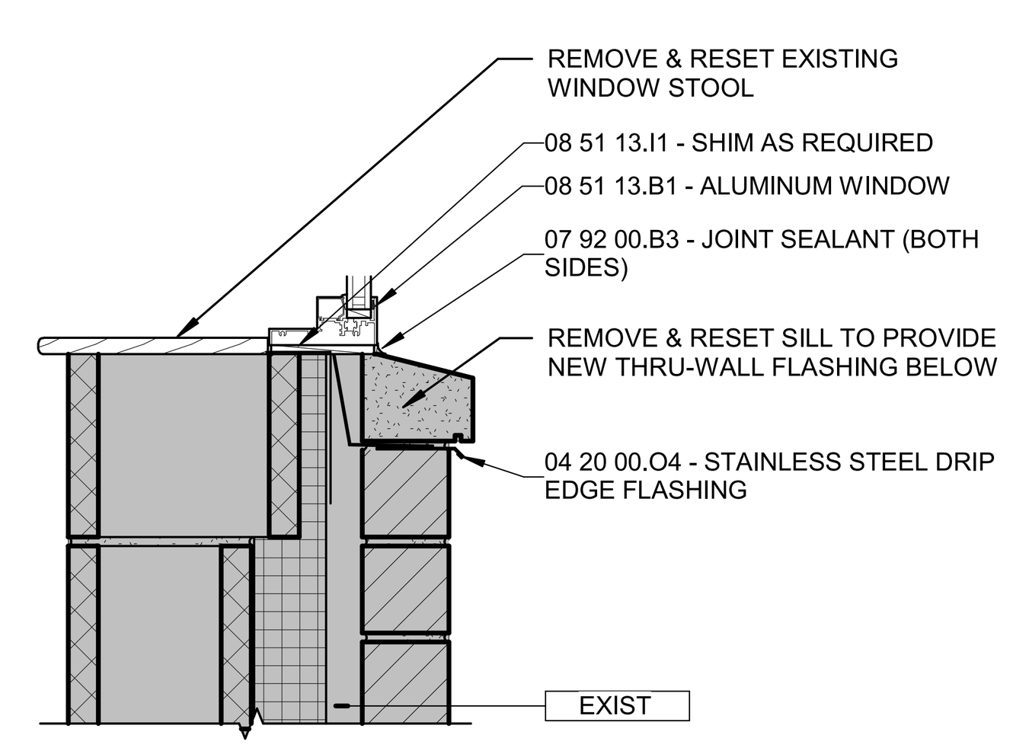
4C JAMB
1 1/2" = 1'-0"



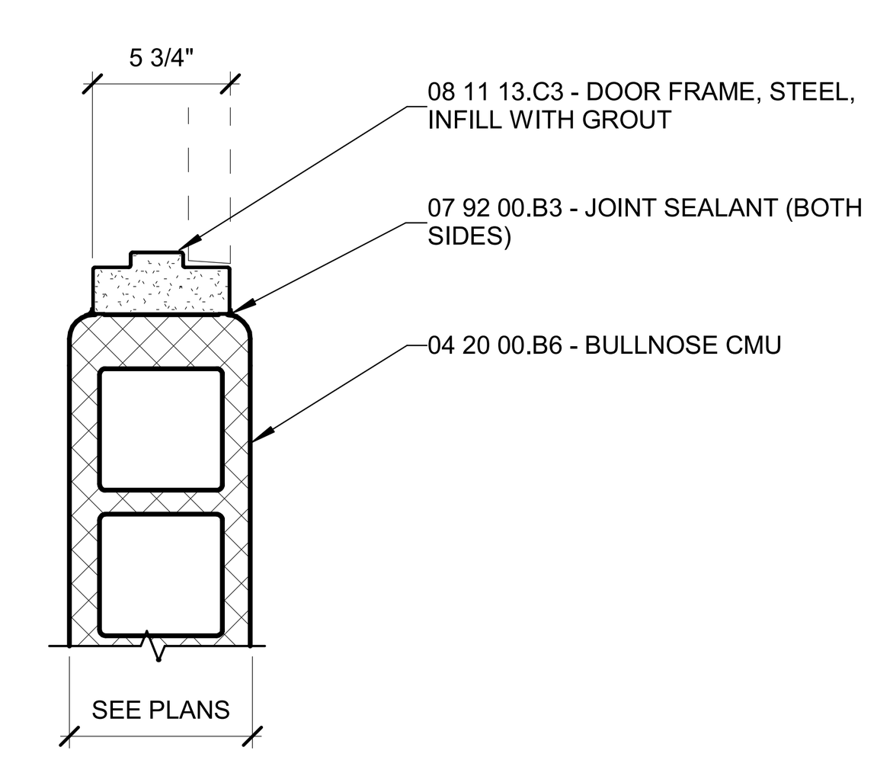
3C HEAD
1 1/2" = 1'-0"



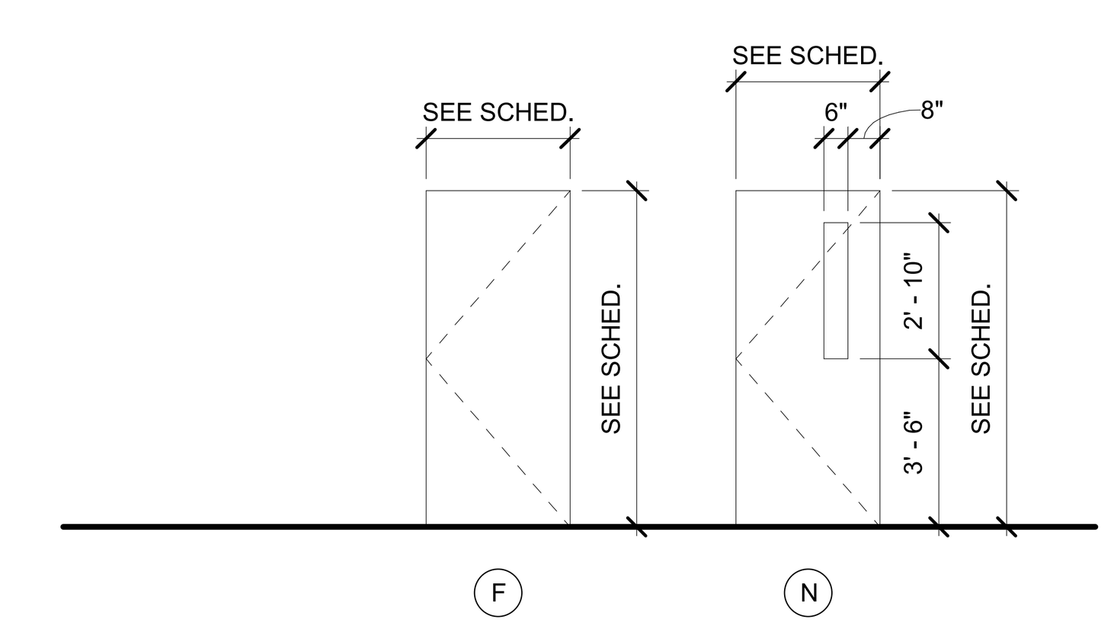
5B HEAD
1 1/2" = 1'-0"



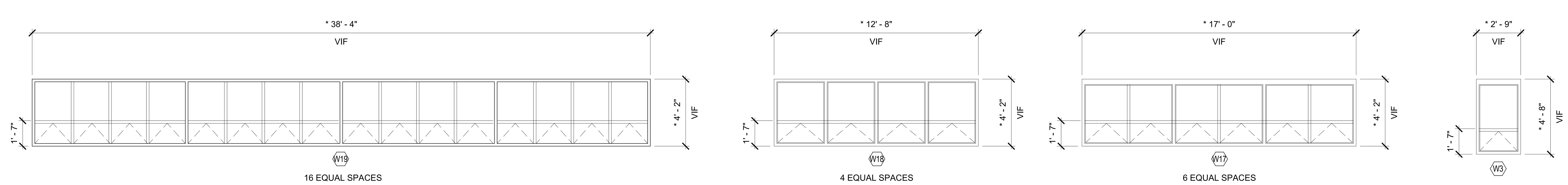
4B SILL
1 1/2" = 1'-0"



3B JAMB
1 1/2" = 1'-0"

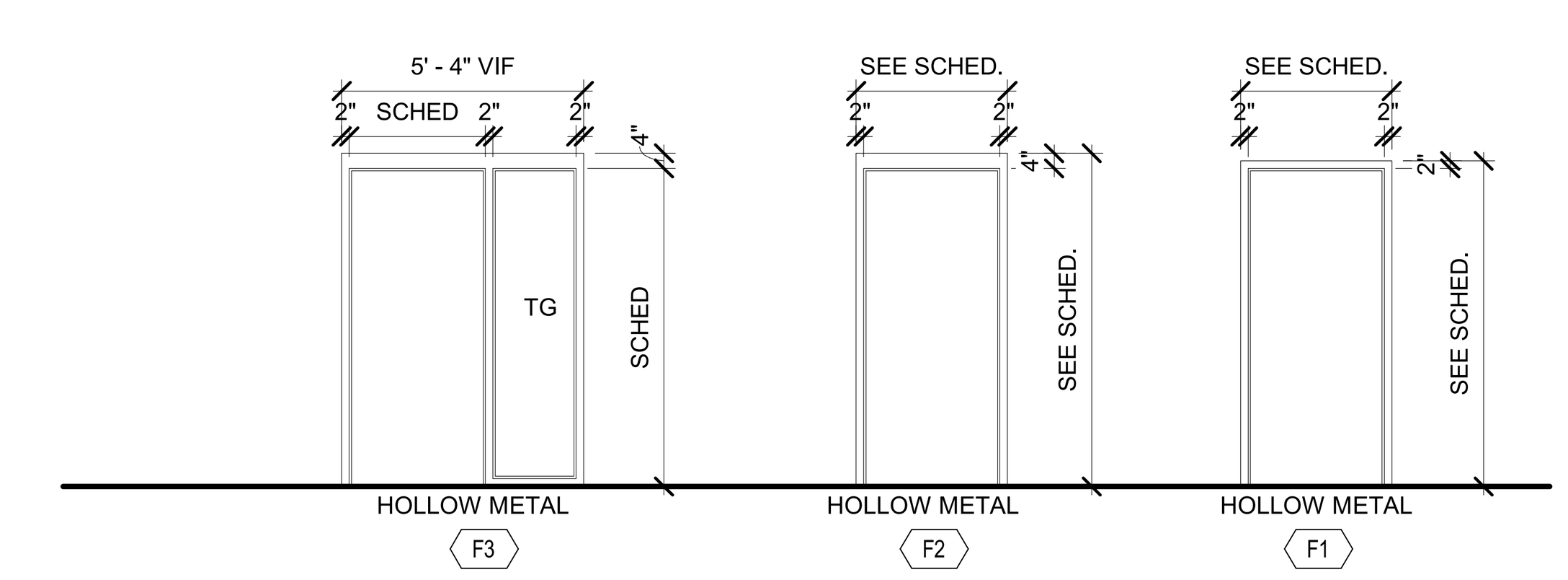


5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



* UTILIZE EXISTING WINDOW OPENING; SHIM AS REQUIRED

WINDOW ELEVATIONS
1/4" = 1'-0"



5.4.603 - DOOR FRAME ELEVATIONS
1/4" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
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Sarah K Hempstead

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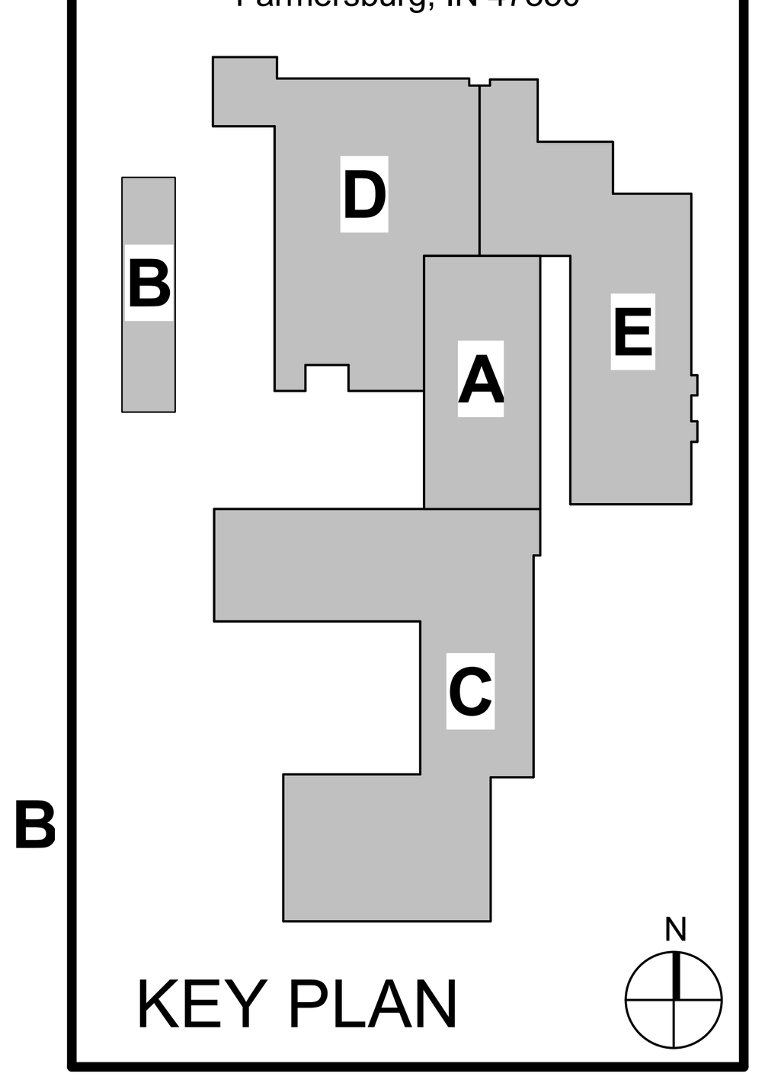


KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

NORTH CENTRAL HIGH SCHOOL

OPENING SCHEDULE & FRAME ELEVATIONS

A-601-HS

6	5	4	3	2	1

INTERIOR FINISH COLOE LEGEND- ITR

ID - ITR	DESCRIPTION - ITR	MANUFACTURER - ITR	PATTERN / STYLE - ITR	COLOR - ITR	SPECIFICATION - ITR	COMMENTS - ITR
CFC-1	RESINOUS FLOORING LEVEL-1	SHERWIN WILLIAMS	3746 HIGH PERFORMANCE EPOXY	STEEL GRAY #54	09 67 23.13	-
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	PREMIUM EXCELON RAFFIA STREAM	AVALANCHE Z5900	09 65 19	12" X 24" TILE; FIELD.
VCT-2	VINYL COMPOSITION TILE	ARMSTRONG	PREMIUM EXCELON RAFFIA STREAM	ELECTRICTY Z5937	09 65 19	12" X 24" TILE; ACCENT.
PL-1	PLASTIC LAMINATE	FORMICA	-	CITADEL WARP 5882-58	12 32 00	COUNTER
PL-2	PLASTIC LAMINATE	FORMICA	-	SARUM TWILL 8827-58	12 32 00	CABINETS
P-1	PAINT	SHERWIN WILLIAMS	-	GOSSAMER VEIL SW9165	09 91 23.99	GENERAL WALL PAINT COLOR.
P-2	PAINT	SHERWIN WILLIAMS	-	KILKENNY SW6740	09 91 23.99	ACCENT WALL PAINT COLOR
P-3	PAINT	SHERWIN WILLIAMS	-	PEPPERCORN SW7674	09 91 23.99	ACCENT WALL PAINT COLOR
CWT-1	CERAMIC WALL TILE	IMOLA	SLASH	YELLOW SLSH 73Y	09 30 00	ALTERNATE: BACKSPLASH FIELD TILE; 3" X 12"
CWT-2	CERAMIC WALL TILE	IMOLA	SLASH	YELLO SLSH1 73Y	09 30 00	ALTERNATE: BACKSPLASH ACCENT TILE; 3" X 12" TEXTURED FACE.
HP-1	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	GOSSAMER VEIL SW9165	09 96 00.99	GENERAL WALL PAINT COLOR IN CORRIDORS
HP-2	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	KILKENNY SW6740	09 96 00.99	ACCENT WALL PAINT COLOR
HP-3	HIGH PERFORMANCE PAINT	SHERWIN WILLIAMS	-	PEPPERCORN SW7674	09 96 00.99	DOOR FRAME PAINT & ACCENT WALL PAINT COLOR
VWB-1	RESILIENT WALL BASE	JOHNONSITE	-	CHARCOAL 20	09 65 13	4" HEIGHT

VISUAL DISPLAY BOARD SCHEDULE

Type Mark	Description	Height	Width	Count
MB12	MARKER BOARD	4' - 0"	12' - 0"	1
MB12	MARKER BOARD	4' - 0"	12' - 0"	1
MB6	MARKER BOARD	4' - 0"	6' - 0"	1

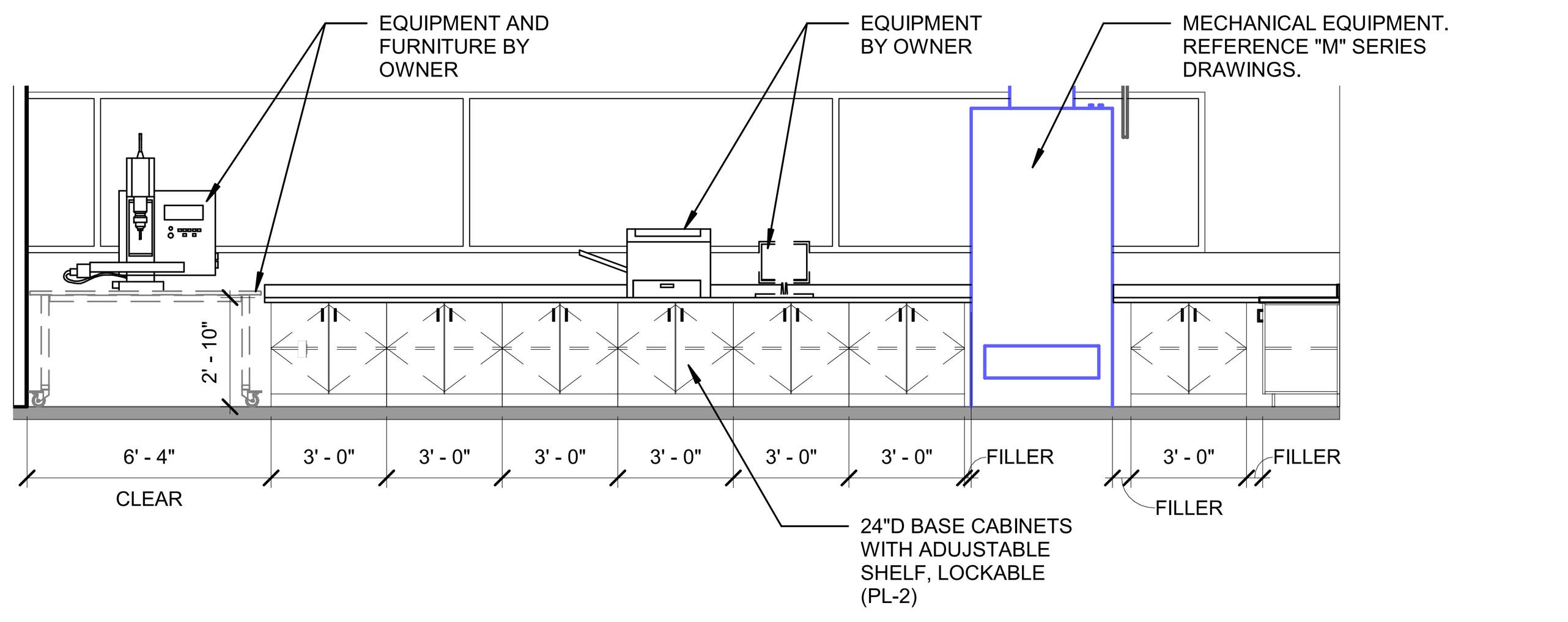
INTERIOR GENERAL NOTES

REFERENCE A-001 FOR GENERAL PLAN NOTES. ALL NOTES MAY NOT APPLY TO THIS SHEET.

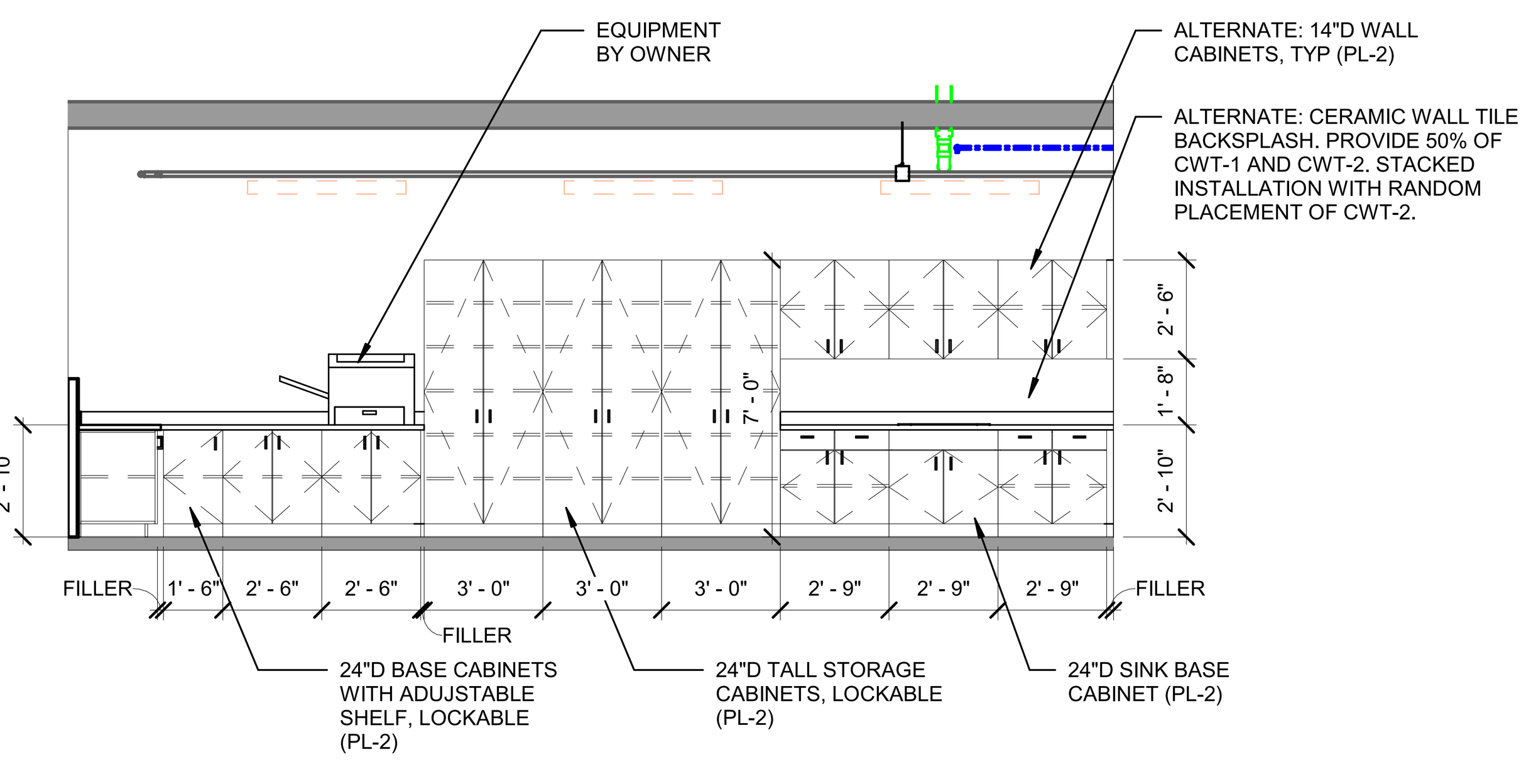
1. REFERENCE ARCHITECTURAL CEILINGS PLANS FOR CEILING HEIGHTS AND BULKHEAD COLOR DESIGNATIONS. PAINT ALL BULKHEADS P-1 UNLESS SPECIFICALLY NOTED OTHERWISE. BULKHEADS THAT ARE FLUSH WITH WALLS PROVIDE COLOR TO MATCH ADJACENT WALL COLOR.
2. PAINT INTERIOR HOLLOW METAL DOOR FRAMES AND ALL STAIR ASSEMBLY HP-2.
3. PAINT GENERAL WALLS P-1 (NEUTRAL) UNLESS SPECIFICALLY NOTED OTHERWISE.
4. FURNITURE AND LAB EQUIPMENT ARE NOT PROVIDED IN THIS CONTRACT.
5. DO NOT INSTALL VINYL WALL BASE ON INTERIOR BRICK UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE A CAULK JOINT AT FLOOR LEVEL.
6. PROVIDE VINYL WALL BASE AROUND ALL CASEWORK UNLESS SPECIFICALLY NOTED OTHERWISE.
7. DESIGNATION "ETR" INDICATES EXISTING TO REMAIN.

INTERIOR PLAN NOTES - ITR

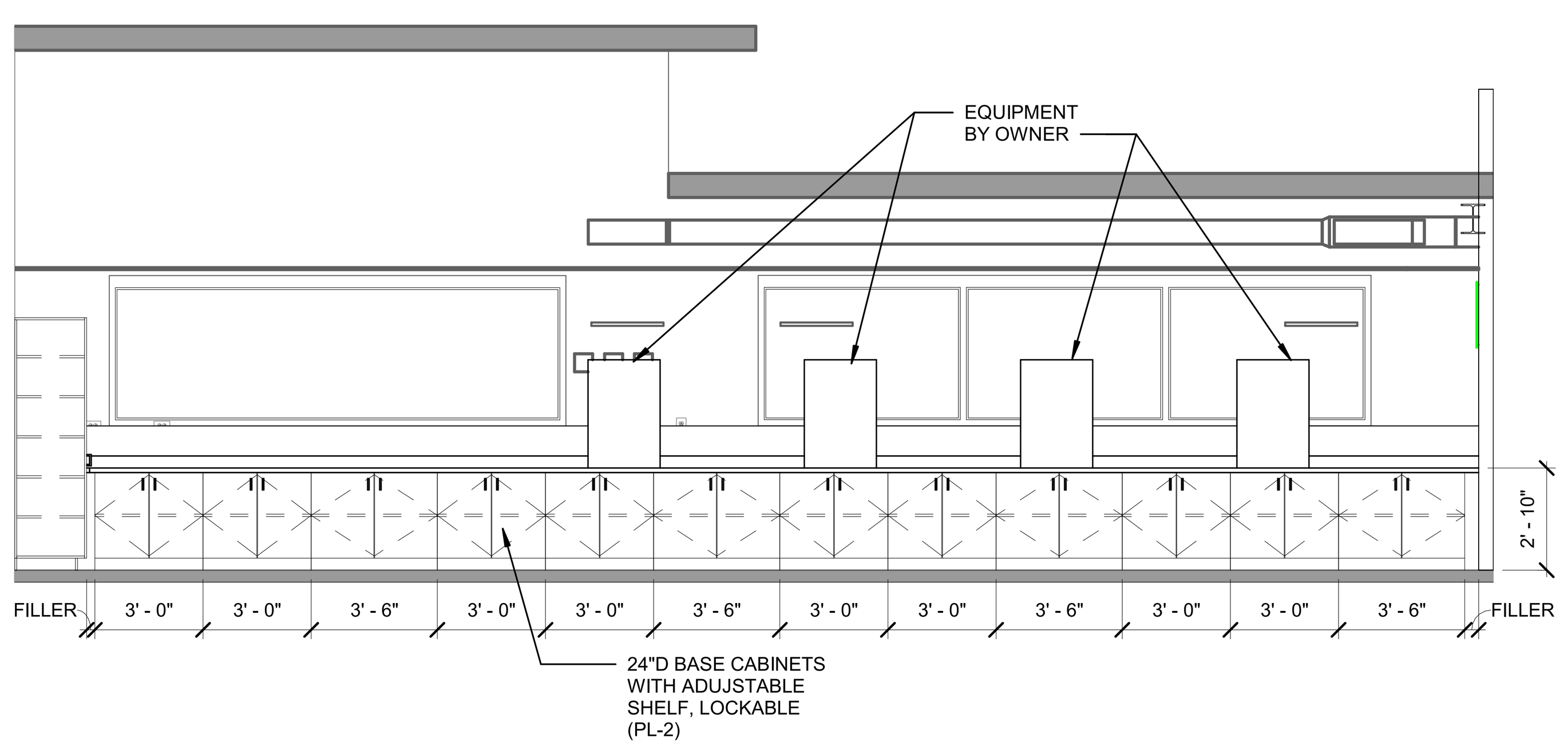
Key	Note
1	EXISTING CASEWORK TO REMAIN.
2	10 11 00 - EXTENT OF WALL TO RECEIVE MARKERBOARD SURFACING UP TO 7' - 2" AFF.
3	09 91 23.99 - EXTENT OF WALL TO BE PAINTED P-2.
4	09 91 23.99 - EXTENT OF WALL TO BE PAINTED P-3.
5	BASE BID: NO NEW WINDOW SHADES. ALTERNATES: PROVIDE NEW MANUAL WINDOW SHADES.
6	BASE BID: NO NEW WALL CABINETS AND CERAMIC WALL TILE. ALTERNATE: PROVIDE NEW WALL CABINETS AND CERAMIC WALL TILE AS INDICATED.
7	09 91 23.99 - EXTENT OF WALL TO BE PAINTED HP-1. PROVIDE NEW RESILIENT WALL BASE (VWB-10) AT NEW WALL CONSTRUCTION.



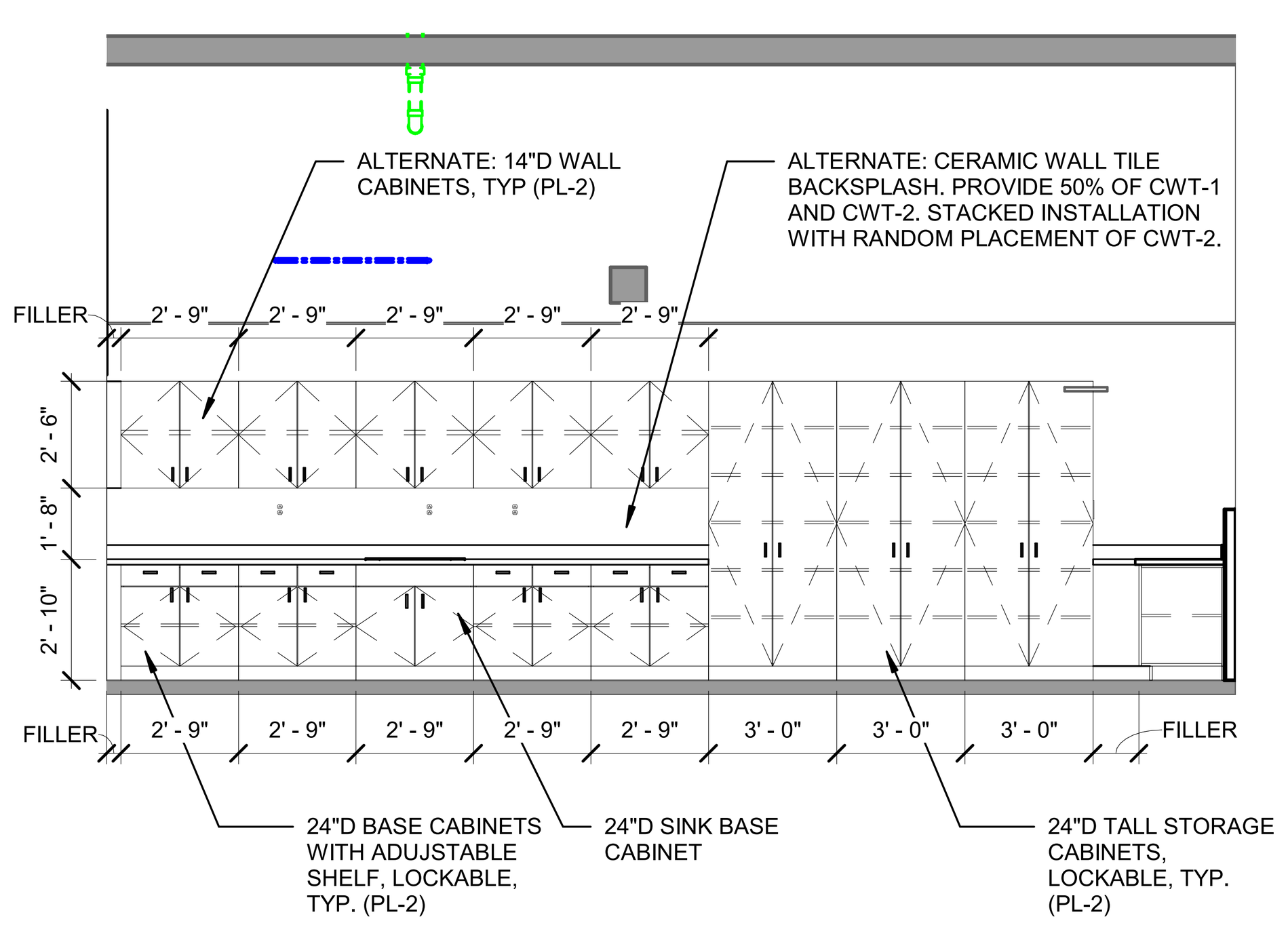
6D STEM LAB CASEWORK ELEVATION 2
1/4" = 1'-0"



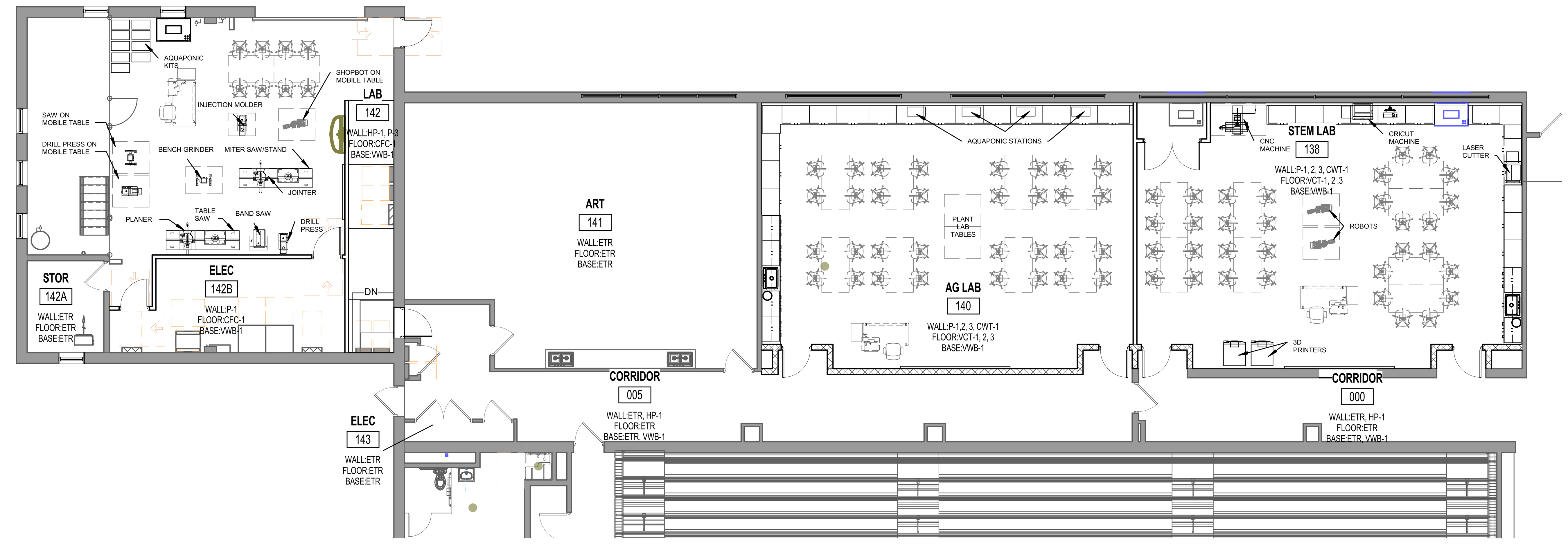
6C STEM LAB CASEWORK ELEVATION 1
1/4" = 1'-0"



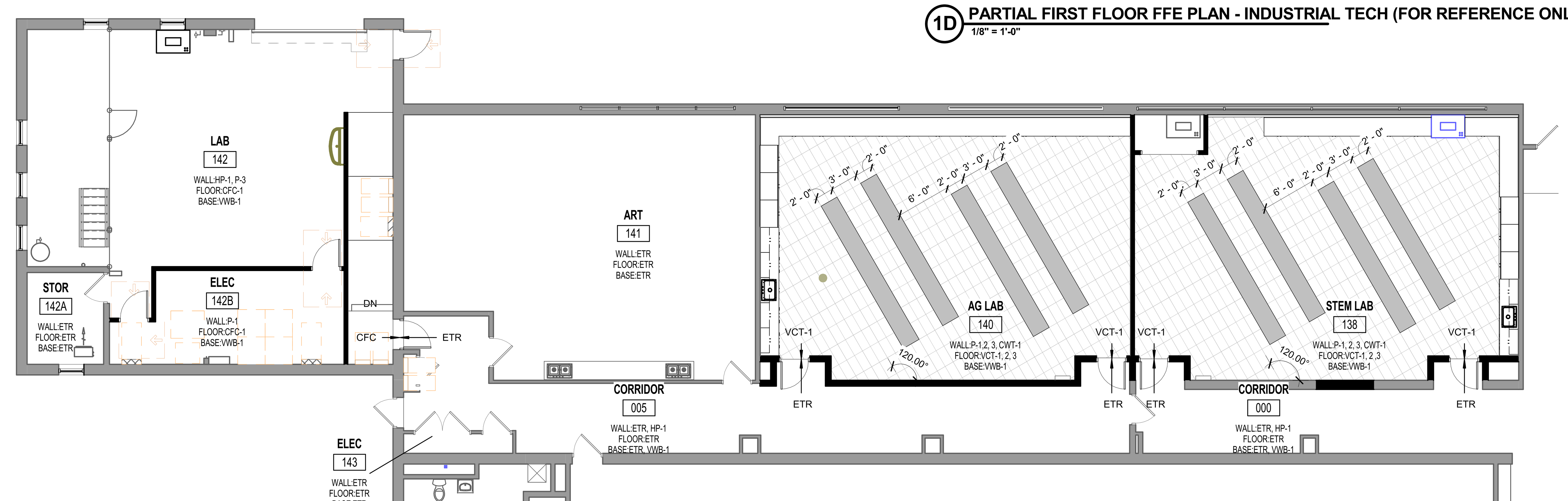
6B AG LAB CASEWORK ELEVATION 2
1/4" = 1'-0"



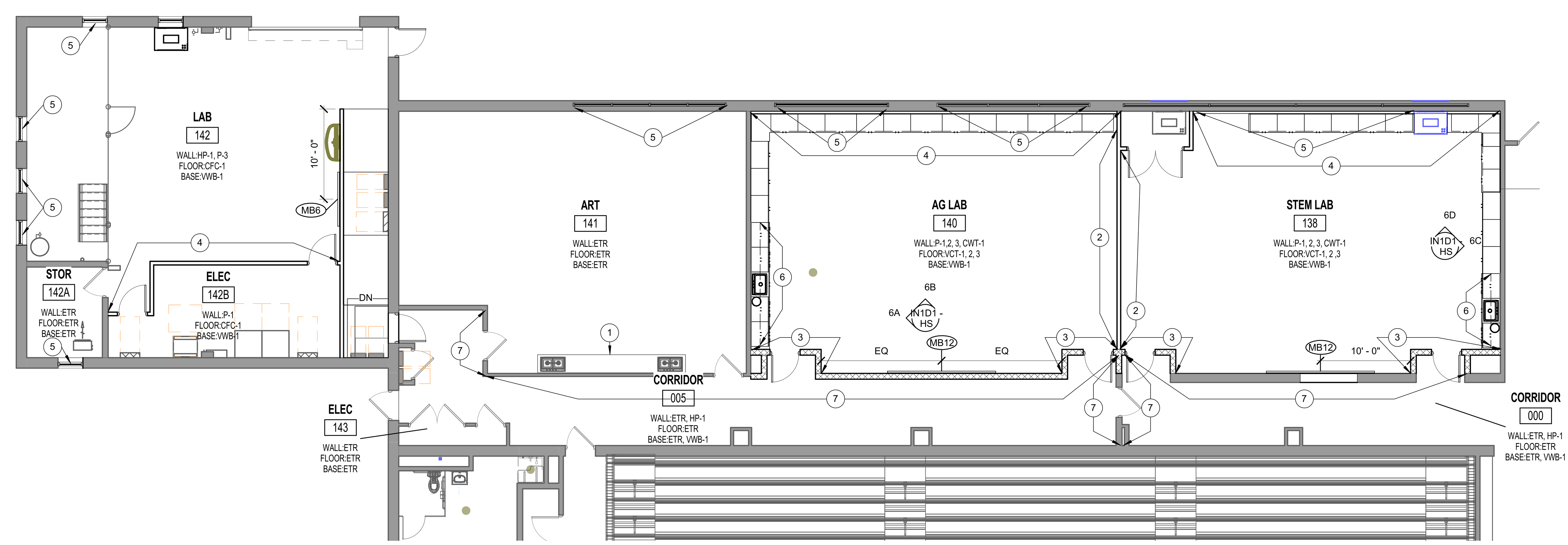
6A AG LAB CASEWORK ELEVATION 1
1/4" = 1'-0"



1D PARTIAL FIRST FLOOR FFE PLAN - INDUSTRIAL TECH (FOR REFERENCE ONLY)
1/8" = 1'-0"



1C PARTIAL FIRST FLOOR PATTERN PLAN - INDUSTRIAL TECH
1/8" = 1'-0"



1A PARTIAL FIRST FLOOR INTERIOR PLAN - INDUSTRIAL TECH
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2016-100.ITR
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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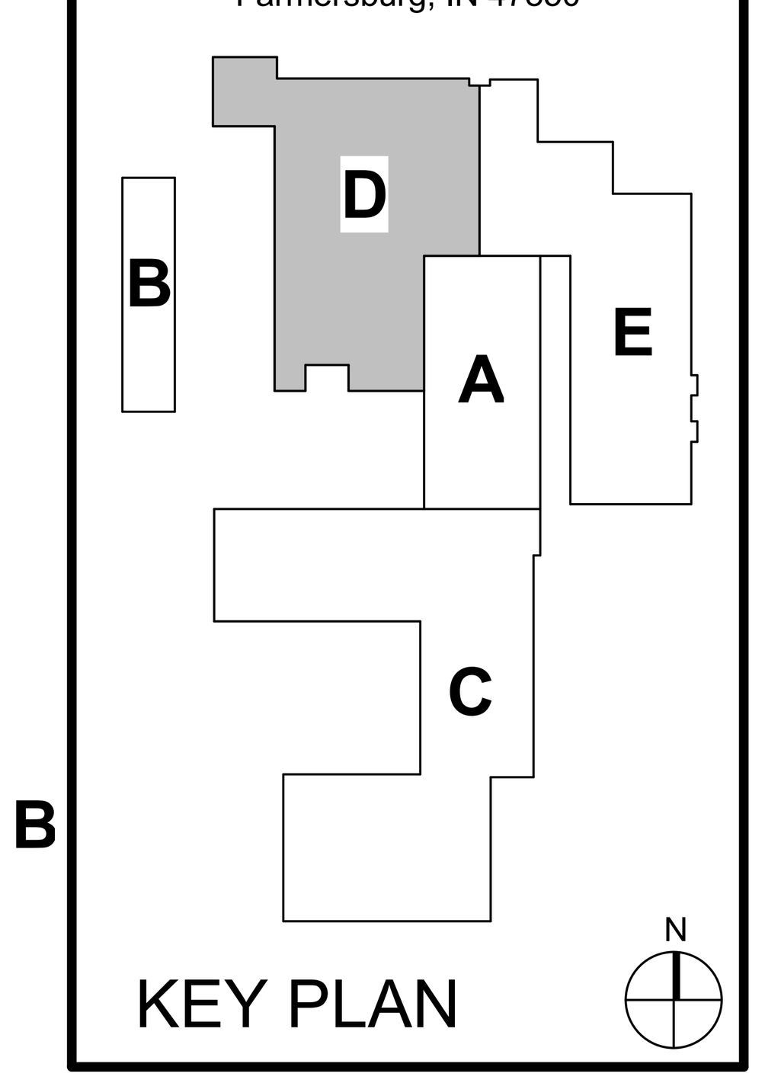

KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

INDUSTRIAL TECH - INTERIOR PLANS AND ELEVATIONS

IN1D1 - HS

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AAF	AUTOMATIC AIR VENT
AD	ACCESS DOOR ("M" DWGS). AREA DRAIN ("P" DWGS)
ADA	AMERICAN DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MONITORING
AHU	AIR HANDLING UNIT
ALTER	ALTERNATE
AMP	AMPERE (AMP, AMPS)
APPROX	APPROXIMAT(E), (LY)
ARCH	ARCHITECT (URAL)
AS	AIR SEPARATOR
APD	AIR PRESSURE DROP (IN WG)
AV	AUTOMATIC VENT
BBD	BOILER BLOW DOWN
BDD	BACKDRAFT DAMPER
BFC	BELOW FINISHED CEILING
BFW	BOILER FEED WATER
BFWP	BOILER FEED WATER PUMP
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPING
BSB	BRANCH SELECTOR BOX
BTUH	BRITISH THERMAL UNIT PER HOUR
C	COMMON
CD	CONDENSATE DRAIN
CAB	CABINET
CAV	CONSTANT AIR VOLUME
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED
CH	CHILLER
CHP	CHILLED WATER PUMP
CHCF	CHILLED WATER CHEMICAL FEED
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CO	CLEANOUT
CONN	CONNECTION
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CUV	CLASSROOM UNIT VENTILATOR
CV	CONTROL VALVE
CWCF	CONDENSER WATER CHEMICAL FEED
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRAIN BOX
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (°F)
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EOM	END OF MAIN DRIP
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE (IN WG)
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORAT(E), (ING), (ED), (OR)
EWT	ENTERING WATER TEMPERATURE (°F)
EXP	EXPANSION
EX	EXISTING
°F	DEGREES FAHRENHEIT
F&B	FACE AND BY-PASS
F&T	FLOAT & THERMOSTATIC STEAM TRAP
FCP	FLUID COOLER PUMP
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FOOT/FEET
FTG	FOOTING
FTR	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GIV	GRAVITY INTAKE VENTILATOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
GRV	GRAVITY RELIEF VENTILATOR
H	HUMIDITY/HUMIDIFIER
HD	HEAD (FT.)
HE	HEAT EXCHANGER
HORIZ	HORIZONTAL
HP	HORSEPOWER/HEAT PUMP
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPWP	HEAT PUMP WATER PUMP
HPS	HIGH PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
HR	HOUR
HRP	HEAT RECOVERY PUMP
HTR	HEATER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HWCF	HEATING HOT WATER CHEMICAL FEED
HWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HZ	FREQUENCY (MEGAHERTZ)
IB	INVERTED BUCKET STEAM TRAP
ID	INSIDE DIAMETER
IN	INCH/INCHES
INCIN	INCINERATOR
INCL	INCLUD(E), (ED)
INDIC	INDICATOR
INSUL	INSULAT(E), (ED), (ION)
INT	INTERIOR
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT

ABBREVIATIONS

LAB	LABORATORY
LAD	LAMINAR AIR DIFFUSER
LAF	LAMINAR AIR FLOW
LAT	LEAVING AIR TEMPERATURE (°F)
LBS	POUND
LD	LINEAR DIFFUSER
LEC	LABORATORY EQUIPMENT CONTRACTOR
LFC	LABORATORY FURNISHINGS CONTRACTOR
LFD	LAMINAR FLOW DIFFUSER
LP	LIQUID PETROLEUM
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LWT	LEAVING WATER TEMPERATURE (°F)
MAT	MIXED AIR TEMPERATURE (°F)
MAX	MAXIMUM
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MPS	MEDIUM PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
MTD	MOUNTED
MV	MANUAL VENT
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE (°F)
OBD	OPPOSED BLADE DAMPER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
P	PUMP
PBD	PARALLEL BLADE DAMPER
PCHR	PANEL CHILLED WATER RETURN
PCHS	PANEL CHILLED WATER SUPPLY
PD	PRESSURE DROP (IN OR WG AS NOTED)
PE	PNEUMATIC-ELECTRIC
PER (%)	PERCENT
PH	PHASE
PHC	PREHEAT COIL
PHWR	PERIMETER HEATING HOT WATER RETURN
PHWS	PERIMETER HEATING HOT WATER SUPPLY
PI	PRESSURE INDICATOR
PNEU	PNEUMATIC
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PNEUMATIC TUBE
PTS	PNEUMATIC TUBE STATION
R	THERMAL RESISTANCE
R(#)	REFRIGERANT (NUMBER)
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE (°F)
RECIR	RECIRCULAT(E), (OR), (ING)
RES	RELATIVE HUMIDITY
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM
RP	RADIANT PANEL (CEILING-MOUNTED)
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RV	REFRIGERANT VENT
SA	SUPPLY AIR
SF	SUPPLY FAN
SAT	SUPPLY AIR TEMPERATURE (°F)
SCC	STEAM CONDENSATE COOLER
SD	SUPPLY DIFFUSER
SECT	SECTION
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SHR	SENSIBLE HEAT RATIO
SHT	SHEET
SPEC	SPECIFICATIONS
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
ST	STORAGE TANK
STD	STANDARD
STP	STORAGE TANK PUMP
STR	STORAGE TANK RETURN
STS	STORAGE TANK SUPPLY
STRUCT	STRUCTURE(E), (AL)
SUCT	SUCTION
SV	STEAM VENT
TB	TERMINAL BOX
TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TONS	TONS OF REFRIGERATION
TSP	TOTAL STATIC PRESSURE (IN WG)
TSTAT	THERMOSTAT
TYP.	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UC	UNDER CUT
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VC	VACUUM CLEANING
VD	VOLUME DAMPER
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VRV	VARIABLE REFRIGERANT VOLUME
W/	WITH
WG	WATER GAUGE
W/O	WITHOUT
WPD	WATER PRESSURE DROP
WTR	WATER
ZN	ZONE

PIPING SYSTEMS

CHW	CHILLED WATER
CHW	CHILLED WATER
C	CONDENSATE
CW	CONDENSER WATER
CW	CONDENSER WATER
HP	HEAT PUMP
HP	HEAT PUMP
HHW	HEATING HOT WATER
HHW	HEATING HOT WATER
HPS	HIGH PRESSURE STEAM
HPS	HIGH PRESSURE STEAM
LPS	LOW PRESSURE STEAM
LPSS	LOW PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
R	REFRIGERANT
R	REFRIGERANT
RSG	REFRIGERANT SUCTION GAS
CP	STEAM CONDENSATE PUMP
SV	STEAM

GENERAL DUTY VALVES & FITTINGS

- RISE IN PIPING
- DROP IN PIPING
- CAPPED PIPE
- PIPE CONTINUED ON ANOTHER DRAWING
- CHECK VALVE
- PLUG VALVE
- PRESSURE REGULATING VALVE
- VALVE - SEE SPECIFICATIONS FOR VALVE TYPE
- BUTTERFLY VALVE
- RELIEF VALVE
- TRIPLE DUTY VALVE
- GATE VALVE
- BALL VALVE
- VALVE IN RISER
- ANGLE VALVE
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- UNION
- THERMOMETER WELL
- THERMOMETER & WELL
- GAUGE CONNECTION(S) & WELL
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- PETE'S PLUG
- Y-STRAINER W/BLOWDOWN VALVE & CAP
- PIPE GUIDES
- PIPE ANCHORS
- FLEXIBLE PIPING CONNECTOR
- PIPE EXPANSION JOINT
- F&T STEAM TRAP W/DESIGNATION
- EXPANSION LOOP (SIZE INDICATED ON DRAWINGS)
- GAS COCK
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PRESSURE REDUCING VALVE

DRAWING NOTATIONS

1 DEMO 1 NEW	PLAN NOTE
3 M-501	DETAIL REFERENCE
2 M-301	SECTION REFERENCE
	NEW TO EXISTING
	DEMO TO THIS POINT
XXX-1	EQUIPMENT TAG - (SEE SCHEDULE SHEETS)
MARK SD24-12 300 CFM	DIFFUSER, REGISTER, GRILLE TAG - (SEE SCHEDULE SHEETS)

NOTE:
ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED FOR THIS PROJECT

DUCTWORK SYSTEMS

EA	EXHAUST
EA/R	EXHAUST/RELIEF
KEA	KITCHEN EXHAUST
OA	OUTSIDE
RL	RELIEF AIR
R	RETURN
SA	SUPPLY AIR
TA	TRANSFER

DUCTWORK SYMBOLS

- DROP IN DUCTWORK (SUPPLY ONLY)
- DROP IN DUCTWORK (EXHAUST, RETURN, ETC.)
- RISE IN DUCTWORK (SUPPLY ONLY)
- RISE IN DUCTWORK (EXHAUST, RETURN, ETC.)
- R, D — OFFSET IN DUCTWORK (R = RISE D = DROP)
- 12"x8" — RECTANGULAR DUCTWORK
- 12"Ø — ROUND SPIRAL DUCTWORK
- 12"x8"⊖ — OVAL DUCTWORK
- INSULATED FLEXIBLE DUCTWORK
- STANDARD RADIUS ELBOW, CENTER RADIUS 1-1/2 TIMES WIDTH OF DUCT
- 90° ELBOW WITH TURNING VANES
- DUCT TRANSITION
- SHOETAP WITH SQUARE TO ROUND TRANSITION
- CONICAL FITTING
- 90° TEE FITTING
- 45° LATERAL FITTING
- BELLMOUTH FITTING
- SHOETAP (OR 45° ENTRY) FITTING
- MANUAL VOLUME DAMPER
- AD, BDD — BDD = BACKDRAFT DAMPER OBD = OPPOSED BLADE DAMPER PBD = PARALLEL BLADE DAMPER
- AD, SD — SD = SMOKE DAMPER
- AD, FSD — FSD = FIRE/SMOKE DAMPER
- AD, FD-(A/B) — FD-(A/B) = FIRE DAMPER (TYPE A OR TYPE B)
- M — MOTORIZED CONTROL DAMPER
- AD — ACCESS DOOR
- INTERNALLY INSULATED DUCTWORK
- FLEXIBLE CONNECTION
- AIR FLOW, 20°, 30° — DUCT-MOUNTED REHEAT COIL (HYDRONIC)
- NEW TO EXISTING
- BDD — COUNTERBALANCED BACKDRAFT DAMPER
- MBDD — MOTORIZED BACKDRAFT DAMPER

EQUIPMENT SYMBOLS

- LINEAR DIFFUSER W/TYPE AND CFM (TWO-WAY SIDE TYPE)
- SUPPLY DIFFUSER W/TYPE AND CFM (FOUR-WAY TYPE)
- SUPPLY DIFFUSER W/TYPE AND CFM (THREE-WAY TYPE)
- SUPPLY DIFFUSER W/TYPE AND CFM (TWO-WAY SIDE TYPE)
- SUPPLY DIFFUSER W/TYPE AND CFM (ONE-WAY SIDE TYPE)
- RETURN GRILLE W/ TYPE AND CFM
- EXHAUST GRILLE W/ TYPE AND CFM
- SIDEWALL GRILLE W/TYPE AND CFM
- AT ROOF — ROOF-MOUNTED EXHAUST FAN
- AT CEILING — CEILING-MOUNTED EXHAUST FAN
- CO2 — CARBON DIOXIDE SENSOR
- H — HUMIDITY SENSOR
- T — THERMOSTAT

GENERAL NOTES

1. THESE GENERAL NOTES APPLY TO M-SERIES DRAWINGS. ADDITIONAL GENERAL NOTES SPECIFIC TO A PARTICULAR DRAWING ARE NOTED ON THOSE SHEETS.
2. IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE MECHANICAL SYSTEMS THAT ARE FULLY FUNCTIONAL. PROVIDE ALL ITEMS SPECIFIED AND REQUIRED FOR COMPLETE OPERATIONAL SYSTEMS.
3. ON MECHANICAL "M" SERIES DRAWINGS, DARK LINE ITEMS INDICATE NEW WORK. LIGHT LINE ITEMS ARE ITEMS THAT SHALL REMAIN.
4. THESE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION FOR PIPING, DUCTWORK, CONDUIT, ETC. THE EQUIPMENT SHOWN ILLUSTRATES SUGGESTED ROUTING, BUT ALL NECESSARY OFFSETS MAY NOT BE SHOWN. DIVISION 23 SHALL INSTALL HIS WORK IN A MANNER THAT WILL CONFORM WITH THE STRUCTURE. DIVISION 23 SHALL AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND MAINTAIN MAXIMUM CLEARANCE WITHOUT FURTHER INSTRUCTION FROM THE ARCHITECT/ENGINEER OR ADDITIONAL COST TO THE OWNER.
5. ALL DUCTWORK, PIPING, AND VALVES SHALL BE CONCEALED ABOVE CEILING AND WITHIN WALLS IN FINISHED AREAS UNLESS OTHERWISE INDICATED.
6. ALL VALVES, ETC. SHALL BE INSTALLED ALLOWING EASY ACCESS BETWEEN LIGHT FIXTURES AND NO HIGHER THAN 12" TO 24" ABOVE THE CEILING. PROVIDE FITTINGS IN DUCTWORK AND PIPING AS REQUIRED SO THAT NO PIPING REMAINS TIGHT TO ROOF STRUCTURE. PROVIDE ACCESS PANELS AS REQUIRED. AREA ADJACENT TO THE ACCESS PANELS SHALL BE CLEAR OF ANY OBSTRUCTIONS. PROVIDE EXTENDED VALVE HANDLES FOR INSULATED PIPING.
7. DIVISION 23 SHALL BE GUIDED BY THE ARCHITECT/ENGINEER'S REFLECTED CEILING PLAN FOR LOCATION OF DIFFUSERS, REGISTERS, GRILLES SHOWN OR COVERED BY THESE PLANS. RETURN GRILLES SHALL NOT ALIGN WITH SUPPLY AIR THROW.
8. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS IN CEILINGS WITH THE CEILING SYSTEM AND LIGHT FIXTURES. PROVIDE FLEXIBLE DUCT UPSTREAM OF EACH DIFFUSER WHERE SHOWN.
9. ARROWS ON THE HOT WATER COLD WATER MAINS INDICATE THE DIRECTION OF FLOW. PITCH MAINS UPWARD A MINIMUM OF 1" PER 60' IN THE DIRECTION OF FLOW. ARROWS ON CONDENSATE PIPING AND DRAIN LINE INDICATE THE DOWNWARD PITCH OF THE PIPING.
10. INSTALL AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS OF WATER PIPING SYSTEMS. DRAINS TO HAVE HOSE END THREADS WITH CLEARANCE TO ATTACH HOSE.
11. PIPING BRANCHES TO EQUIPMENT SHALL HAVE SAME SIZE VALVES AND FITTINGS AS THAT OF THE LINE SIZE WITH THE EXCEPTION OF THE TEMPERATURE CONTROL VALVES.
12. PIPE "SWING" CONNECTIONS WITH UNIONS OR FLANGES SHALL BE MADE EXTERNAL TO COILS OR A TUBE BUNDLE TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
13. DUCT AND PIPING PENETRATING FLOOR SLABS AND/OR WALLS SHALL BE SEALED WITH ACOUSTIC SEALANT. IF THE FLOOR OR WALL IS FIRE RATED PROVIDE THE FIRE STOPPING OR FIRE DAMPER TO MAINTAIN THE FIRE RATING.
14. ALL RECTANGULAR SHEET METAL DUCT SIZES ARE INSIDE DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS. ALLOWANCE FOR ACOUSTICAL LINER WHERE INDICATED ON DRAWINGS MUST BE ADDED TO OBTAIN OUTSIDE SHEET METAL DIMENSION.
15. ALL WALL THERMOSTATS, TEMPERATURE SENSORS, AND/OR HUMIDISTATS SHALL BE APPROXIMATELY 46" ABOVE FINISHED FLOOR TO CENTER AND LINED UP HORIZONTALLY WITH LIGHT SWITCHES UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT/ENGINEER.
16. DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS FOR CUTTING AND PATCHING REQUIRED TO INSTALL NEW OR REMOVE EXISTING WORK, EQUIPMENT, OR SYSTEMS.
17. DIVISION 23 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL OF HIS WORK TO BE INSTALLED WITH ANY AND ALL OTHER CONTRACTORS TO BE AFFECTED BY SUCH WORK, PRIOR TO ORDERING ANY OF THE EQUIPMENT. THIS SHALL INCLUDE BUT NOT LIMITED TO ELECTRICAL CHARACTERISTICS, CONNECTIONS REQUIRED, PHYSICAL SIZE, COLOR AND FIT. ALSO REFER TO SPECIFICATIONS.
18. ALL EQUIPMENT SHALL BE OF, AND CONSIST OF, AT LEAST MINIMUM SIZES SELECTED, AND SHALL PERFORM TO OR SURPASS THE MINIMUM REQUIREMENTS, SCHEDULES, NOTED AND SPECIFIED.
19. COORDINATE INSTALLATION OF NEW WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED FOR A COMPLETE AND OPERABLE HVAC SYSTEM. CLEARANCES ABOVE CEILINGS ARE EXTREMELY TIGHT IN CERTAIN AREAS. RELOCATE PIPING, ELECTRIC CONDUIT, STRUCTURAL BRACING, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION OF HVAC WORK. COORDINATE ROUTING OF NEW DUCTWORK ABOVE CEILINGS WITH EXISTING ELECTRIC CABLE TRAY. M.C. TO COORDINATE ALL DUCTWORK ROUTING AND DUCTWORK ELEVATIONS WITH STRUCTURAL STEEL SUPPORTS FOR FOLDING WALLS. REFERENCE STRUCTURAL DRAWINGS FOR SIZE AND LOCATIONS OF STEEL. FIELD VERIFY ALL EXISTING CONDITIONS.
20. CONTRACTOR SHALL RELOCATE EXISTING LIGHT FIXTURE AND CEILING GRID SUPPORT HANGERS AS REQUIRED FOR INSTALLATION OF NEW DUCTWORK AND PIPING.
21. PROVIDE VOLUME DAMPERS IN ALL SUPPLY AIR BRANCH DUCTWORK AS REQUIRED TO BALANCE EACH SYSTEM. COORDINATE LOCATION OF ALL DAMPERS WITH AIR BALANCE CONTRACTOR.
22. PROVIDE 45°/90° FITTING WITH VOLUME DAMPER LIKE FLEXMASTER MODEL STO AT ALL SUPPLY AIR AND PRIMARY AIR BRANCH DUCTWORK TAKEOFFS.
23. CONTRACTOR SHALL REVIEW RETURN AIR PATH BACK TO ALL HVAC EQUIPMENT. PROVIDE RETURN AIR OPENINGS AND/OR JUMPER DUCTS IN WALLS ABOVE THE CEILING WHERE REQUIRED. COORDINATE WITH GENERAL TRADES. VELOCITY THRU R.A. OPENINGS SHALL NOT EXCEED 500 FPM. FIELD VERIFY LOCATION OF EXISTING WALLS EXTENDING TO DECK.
24. ALL TRANSFER AIR DUCTS TO BE INTERNALLY INSULATED TO DETER NOISE TRANSFER. SIZE SHOWN ON PLANS INDICATES ACTUAL FREE AREA.
25. ALL NEW PIPING AND DUCTWORK CROSSING THRU EXISTING CORRIDOR AND/OR CLASSROOM WALLS TO DECK; CUT WALLS AS REQUIRED. COORDINATE ALL OPENINGS THROUGH EXISTING WALL CONSTRUCTION WITH GENERAL TRADES. SEAL AROUND DUCTWORK AND PIPING TO HELP REDUCE THE TRANSFER OF NOISE BETWEEN CLASSROOMS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING OF BID.
26. ALL DUCTWORK CONSTRUCTION SHALL BE FABRICATED SHEET METAL & BUILT IN ACCORDANCE WITH "SMACNA" STANDARDS.
27. ALL SUPPLY, RETURN, RELIEF/EXHAUST, AND OUTDOOR AIR DUCTWORK SHALL BE EXTERNALLY INSULATED. SEE SPECIFICATION FOR ADDITIONAL INSULATION REQUIREMENTS.
28. ALL ROUND DUCT TO BE EXTERNALLY INSULATED UNLESS NOTED OTHERWISE. SIZE SHOWN INDICATES ACTUAL DUCT FREE AREA. SEE SPECIFICATION FOR ADDITIONAL INSULATION REQUIREMENTS.
29. ALL NEW ROOF WORK TO BE IN ACCORDANCE WITH OWNER'S EXISTING ROOF WARRANTY.
30. ALL ROOF PENETRATIONS TO BE SEALED WATER TIGHT. PACK VOID BETWEEN DUCT PENETRATING ROOF AND STRUCTURE WITH FIBERGLASS INSULATION AND CAULK WATER TIGHT.
31. TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING COMPLETE FOR THIS PROJECT. ALL WIRING (AND INTERLOCK WIRING) TO THERMOSTATS, SPACE SENSORS, HUMIDISTATS, CARBON DIOXIDE MONITORS, ETC. ARE TO BE CONCEALED WITHIN THE WALL.
32. ALL HARD 90° ELBOWS IN SUPPLY DUCTWORK ARE TO HAVE TURNING VANES PER SPECIFICATION AIR DUCT ACCESSORIES.
33. REMOVE ALL WORK MADE OBSOLETE BY NEW CONSTRUCTION.
34. DEMOLITION OF EXISTING MECHANICAL EQUIPMENT TO INCLUDE ASSOCIATED PIPING AND DUCTWORK NECESSARY FOR NEW EQUIPMENT INSTALLATION.
35. ALL EXISTING TO REMAIN AND NEW PVC PLUMBING VENT LINES LOCATED ABOVE CEILING IN RETURN PLENUM ARE TO BE EXTERNALLY WRAPPED WITH FLAME AND SMOKE SPREAD RATED INSULATION MATERIAL AS REQUIRED.
36. REFERENCE SECTION DIVISION 01 "SUMMARY" [MULTIPLE CONTRACT SUMMARY] FOR CONSTRUCTION PHASING.
37. CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS, INCLUDING THE WORK OF OTHER CONTRACTORS PRIOR TO SUBMITTING A BID PROPOSAL.
38. CONTRACTOR SHALL CLEAN ALL OF HIS WORK INSIDE AND OUT. AIR DISTRIBUTION SYSTEMS SHALL HAVE ALL DIRT AND FOREIGN MATERIAL REMOVED FROM INSIDE AND OUTSIDE OF DUCTS, PLENUMS, HOUSINGS, DEVICES, TERMINALS, ETC. AS INSTALLATION PROGRESSES, PROTECT OPEN ENDS OF DUCTWORK AND INLETS AND OUTLETS OF EQUIPMENT AND DEVICES DURING CONSTRUCTION. CLEAN ALL ACCESSIBLE PARTS OF DUCTWORK AND AIR PASSAGES IN EQUIPMENT BEFORE FILTERS ARE INSTALLED OR REPLACED FOR SYSTEM BALANCING.
39. FURNISH AND INSTALL ACCEPTABLE CONCRETE INSERTS, ANCHORS, CLAMPS, BRACKETS, HANGERS, STRUCTURAL MEMBERS (ANGLES, CHANNELS, ETC.) AND FRAMES, ETC., REQUIRED FOR SUPPORTING ALL RESPECTIVE WORK. SUPPORTING DEVICES, ASSEMBLIES AND ATTATCHMENTS SHALL BE DESIGNED AND ARRANGED TO CARRY THE WEIGHT OF THE SUPPORTED ITEMS INCLUDING HANGER AND CONTENTS WITHOUT TRANSMITTING VIBRATION OR NOISE TO THE BUILDING CONSTRUCTION; DESIGNED, APPROPRIATE AND APPROVED FOR THE PURPOSE USED; HAVE A NEAT AND FINISHED APPEARANCE AND COMPLEMENT THE INSTALLATION; HAVE CORROSION PROTECTION SUITABLE FOR THE ATMOSPHERE WHERE INSTALLED; ADEQUATELY AND SAFELY ATTACHED TO THE BUILDING STRUCTURE OR STRUCTURAL MEMBERS. EXPOSED SUPPORTS SHALL BE PAINTED UNLESS OF NON-FERROUS MATERIAL OR PROVIDED WITH PLATED (RUSTPROOF) FINISH.
40. PROVIDE NEC CLEARANCES AND SERVICE CLEARANCES FOR EQUIPMENT. COORDINATE EQUIPMENT SERVICE ACCESS. CLEARANCES INDICATED ARE BASED UPON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY PIPING, DUCTWORK, ETC., ROUTING PRIOR TO SUBMITTING A BID PROPOSAL AND INCLUDE ANY SUCH COSTS AS REQUIRED TO INSTALL WORK AS SHOWN AND INTENDED.
41. DURING REMOVAL OF ITEMS, CAUTION SHALL BE USED TO PREVENT DAMAGE TO ANY EQUIPMENT HAVING SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND BE RETAINED FOR HIS INSPECTION. ONLY ITEMS SO INSPECTED AND REJECTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. ALL OTHER ITEMS SHALL BE TURNED OVER AND DEPOSITED AS DIRECTED BY THE OWNER.
42. CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND BOTH ARE MEANT TO BE COMPLEMENTARY - ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
43. VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING PIPING AND DUCTWORK PRIOR TO CONSTRUCTION OR BIDDING.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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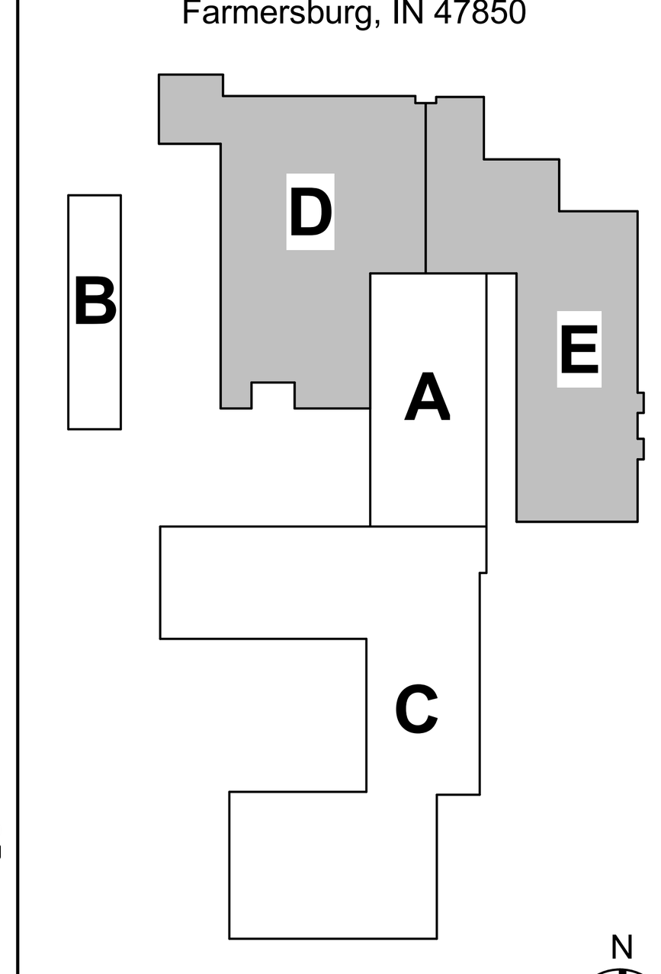
Project Date 03.20.2020
Produced SLO/ AM

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT No. AR10400134 STATE OF INDIANA

#	Revision	Date

910 E. Co. Rd. 975 N.
Farmersburg, IN 47850



KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

MECHANICAL SYMBOLS AND ABBREVIATIONS

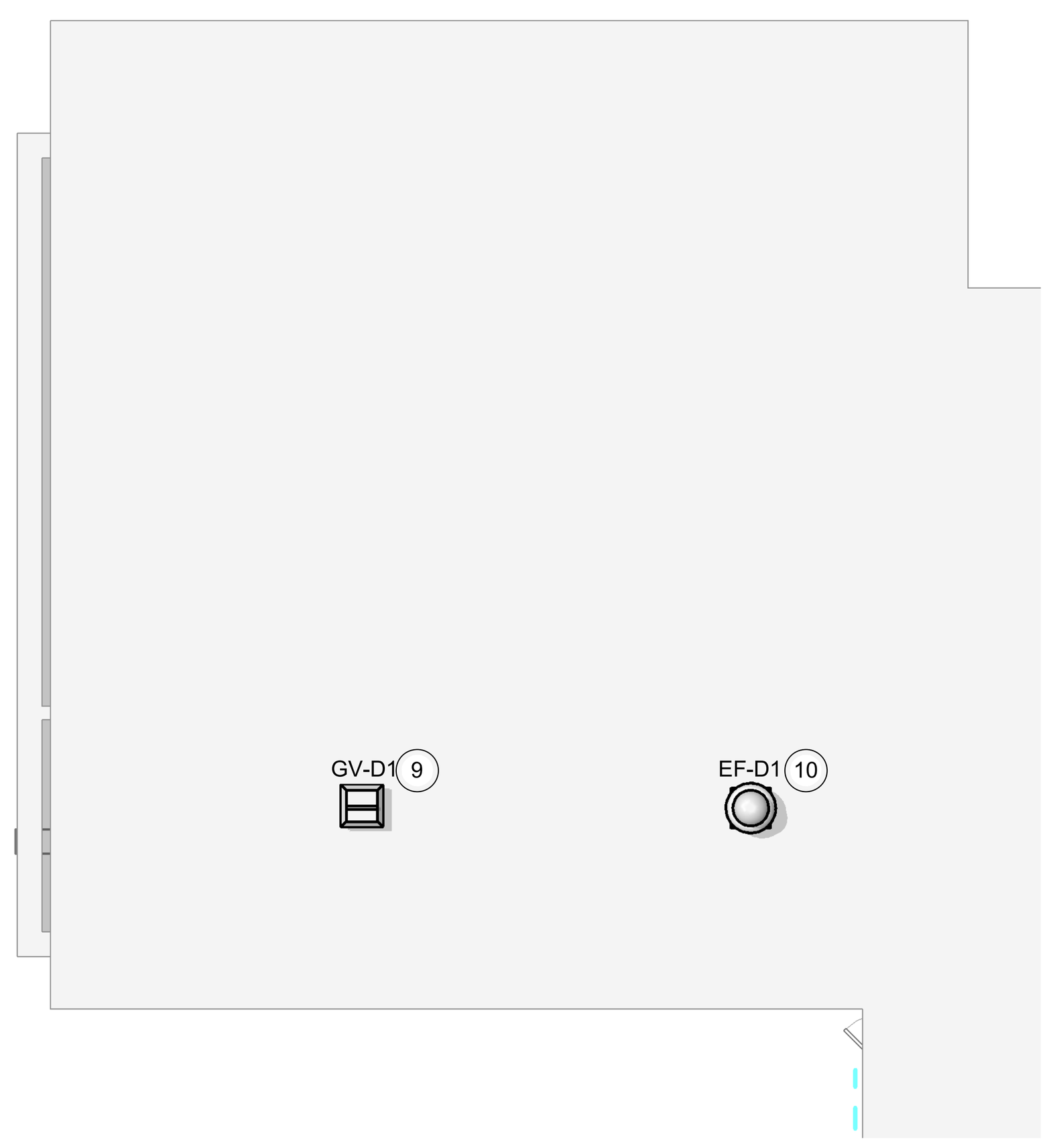
M-001 - HS

DEMOLITION HVAC PLAN

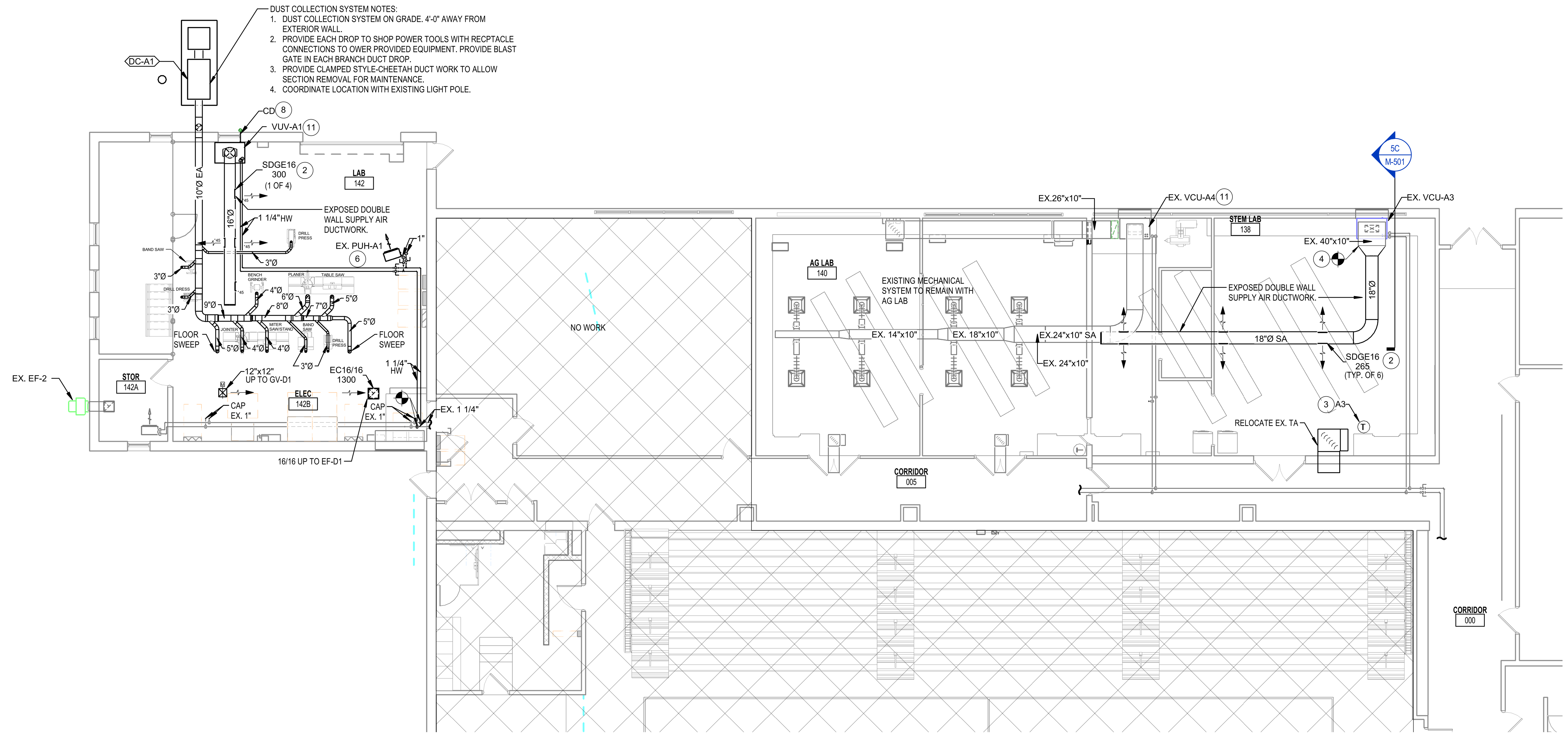
#	NOTE
1	DEMO EXISTING DIFFUSER,FLEX AND DUCT WORK AS SHOWN. FIELD VERIFY SIZE AND LOCATION.
2	DEMO EXISTING EGG CRATE IN ROOM.
3	THERMOSTAT TO BE RELOCATED. SEE NEW WORK VIEW FOR LOCATION.
4	EXISTING TRANSFER AIR DUCT TO REMAIN OR TO BE RELOCATED TO MISS NEW WORK.
6	DEMO EXHAUST FAN IN ROOM.
7	DEMO EXISTING UNIT HEATER AND TURN OVER TO OWNER. DEMO PORTION OF PIPES AND CAP BACK AT MAIN.
8	DEMO FAN COIL UNIT, CONDENSING UNIT ON ROOF AND PIPING COMPLETE. REMOVE CONDENSATE PIPING AND CAP BELOW FLOOR.
9	DEMO EXISTING AIR CONDITIONER WINDOW UNIT.
10	RELOCATE EXISTING UNIT HEATER. SEE VIEW 1C/MH1D1 FOR NEW LOCATION. FIELD VERIFY SIZE AND LOCATION.

MECHANICAL HVAC PLAN NOTES

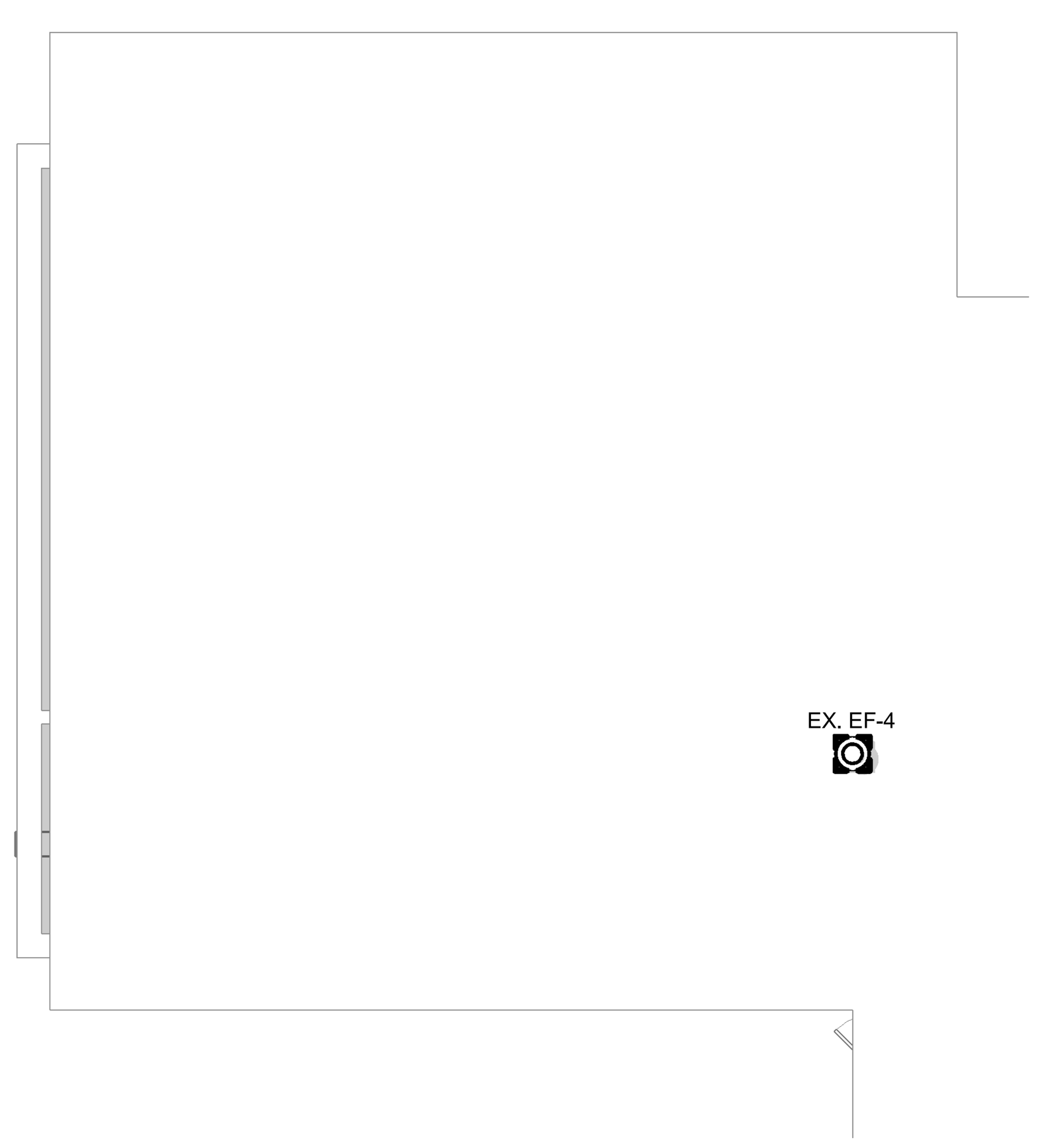
#	NOTE
1	SEE GENERAL NOTES ON SHEET M-001.
2	NEW DOUBLE WALL SUPPLY AIR DUCT GRILLE. SEE SHEDULE ON SHEET M-501.
3	RELOCATE EXISTING THERMOSTAT FOR VERTICAL UNIT VENTILATOR. COORDINATE LOCATION AND HEIGHT OF THERMOSTAT WITH LIGHT SWITCH.
4	CONNECT NEW DUCT TO EXISTING 12"x12" DUCTWORK AS NECASSERY. FIELD VERIFY SIZE AND LOCATION.
6	RELOCATE EXISTING UNIT HEATER. FIELD VERIFY TO MISS THE OVERHEAD DOOR.
8	SIZE CONDENSATE PIPE PER MANUFACTERE'S RECOMMENDATION.
9	GRAVITY INTAKE VENT ON ROOF. SEE SCHEDULE ON SHEET M-501.
10	EXHAUST FAN ON ROOF. SEE SCHEDULE ON SHEET M-501.
11	SEE DETAIL 1A/M-501.



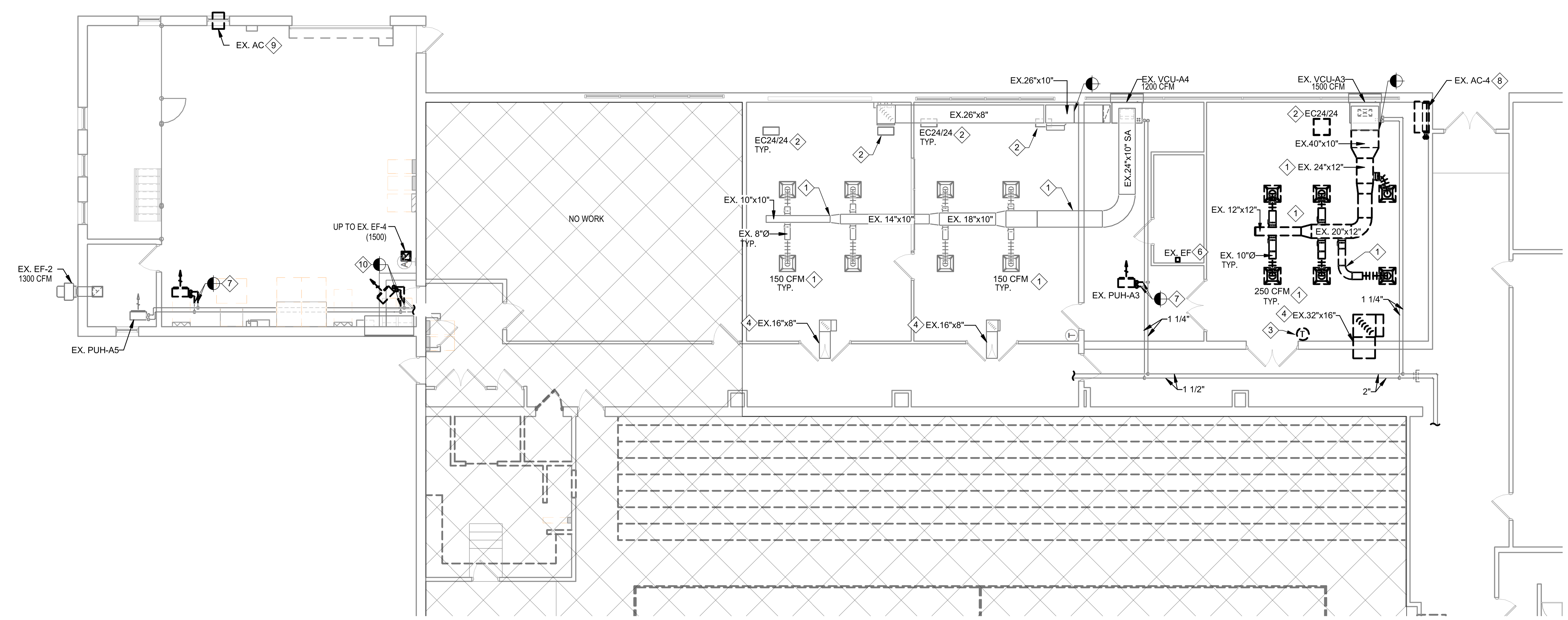
5C MECHANICAL HVAC ROOF PLAN - UNIT D
1/8" = 1'-0"



1C FIRST FLOOR HVAC PLAN - UNIT D (TECH)
1/8" = 1'-0"



5A MECHANICAL HVAC DEMO ROOF PLAN - UNIT D
1/8" = 1'-0"



1A FIRST FLOOR MECHANICAL DEMO PLAN - UNIT D (TECH)
1/8" = 1'-0"

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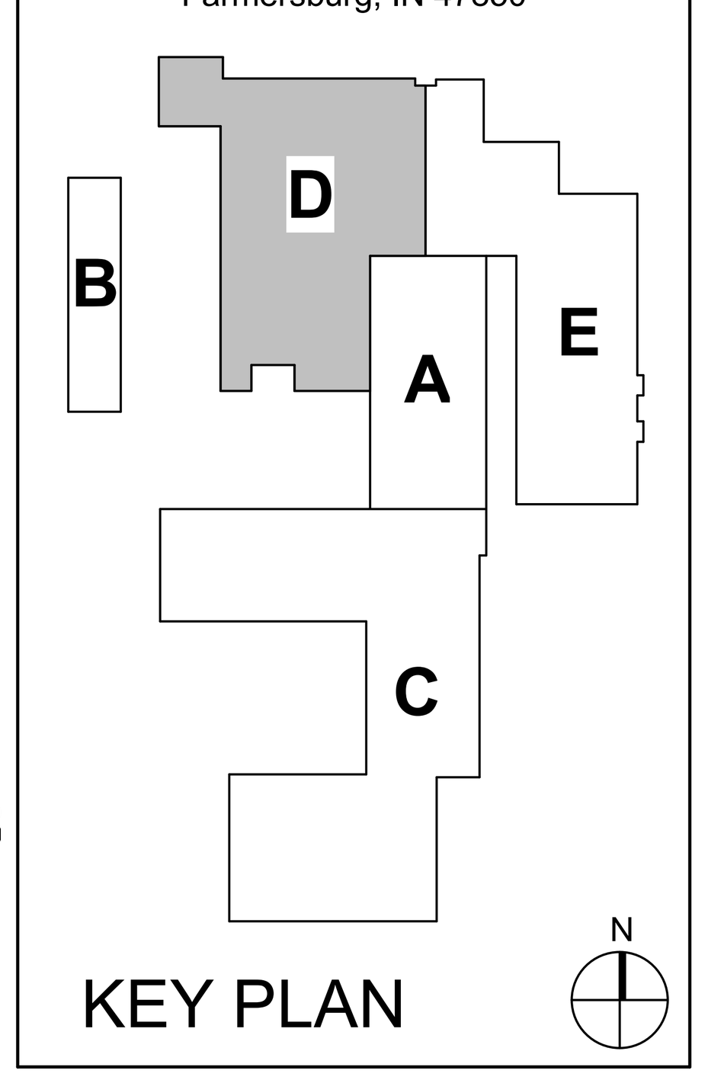


KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

HS - FIRST FLOOR HVAC PLAN - UNIT D

MH1D1

233713 DIFFUSERS, REGISTERS, AND GRILLES SCHEDULE							
IDENTITY DATA				MODULE SIZE			
MARK	DESCRIPTION	MANUFACTURER	MODEL	W	L	MATERIAL	NOTES
EC16/16	EGG CRATE FACE RETURN	PRICE	80	16"	16"	ALUMINUM	1-4

DIFFUSERS, REGISTERS, AND GRILLES SCHEDULE NOTES:
1. REFERENCE DETAIL 5A/MH1D1 FOR SUPPLY AIR DIFFUSER CONNECTION.
2. COORDINATE WITH CEILING CONSTRUCTION FOR MOUNTING TYPE.
3. STANDARD COLOR TO BE WHITE FINISH.
4. COORDINATE FINAL COLOR WITH ARCHITECT.

EXHAUST FAN SCHEDULE																			
IDENTITY DATA							FAN DATA			NOISE CRITERIA		ELECTRICAL DATA							
MARK	MANUFACTURER	MODEL	SERVES	WEIGHT (LBS)	FAN TYPE	DRIVE TYPE	EXHAUST AIRFLOW (CFM)	ESP (IN-WG)	RPM	SONES	DBA	HP	BHP	VOLTS (V)	PHASE	FREQ (HZ)	DISCONNECT PROVIDER	UNIT CONTROL	NOTES
EF-D1	LOREN COOK	120-ACE-D	ELEC 142B	50	CENTRIFUGAL	BELT	1,300	0.5	1725	11.1	62	0.33	0.25	120	1	60	MFGR		1-6

EXHAUST FAN SCHEDULE NOTES:
1. PROVIDE SPEED CONTROLLER WITH FAN FOR BALANCING OF UNIT. FAN SUPPLIED WITH DIRECT DRIVE ECM MOTOR.
2. ROOF MOUNTED EXHAUST FAN. SEE INSTALLATION DETAIL 5A/M501.
3. PROVIDE GRAVITY BACKDRAFT DAMPER.
4. M.C. TO COORDINATE POWER REQUIREMENTS WITH DIV. 26 AS REQUIRED.
5. FAN TO OPERATE FROM OCCUPANCY SENSOR.
6. PROVIDE TIGHT SEAL MOTORIZED DAMPER WITH END SWITCH.

GRAVITY VENTILATOR SCHEDULE													
IDENTITY DATA							HOOD DATA			THROAT DATA			
											THROAT DIMENSIONS		
MARK	MANUFACTURER	MODEL	LOCATION	ROOM SERVED	WEIGHT (LBS)	NO. OF TIERS	AIRFLOW (CFM)	TSP (IN-WG)	HOOD VELOCITY (FPM)	THROAT VELOCITY (FPM)	L	W	NOTES
GV-D1	LOREN COOK COMPANY	TRE	ROOF	ELEC 142B	50	2	1300	0.5	500	500	24"	24"	1-7

GRAVITY VENTILATOR SCHEDULE NOTES:
1. SEE DETAIL 3B/M-501 FOR INTAKE AIR VENT INSTALLATION.
2. O.A. INTAKE HOOD SIMILAR.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. ALUMINUM CONSTRUCTION BIRD SCREEN, INSULATED ROOF CURB MINIMUM 3' ABOVE ADJACENT ROOF.
5. ANTI-CONDENSATE COATING.
6. UNIT TO BE READY FOR FIELD PAINTING BY G.C.
7. UNIT SUPPLIED WITH MOTORIZED BACKDRAFT DAMPER.

VERTICAL UNIT VENTILATOR SCHEDULE

IDENTITY DATA			DIMENSIONS			SUPPLY FAN DATA					
MARK	MANUFACTURER	MODEL	LENGTH	WIDTH	HEIGHT	CFM	OUTDOOR AIR	ESP (IN-WG)	MOTOR SPEED RPM	MOTOR HP	MOTOR FLA
VUV-A1	CHANGEAIR	SOPHOMORE	2' - 6"	3' - 8"	7' - 9"	1,200	350 CFM	0.25	1200	0.5	5

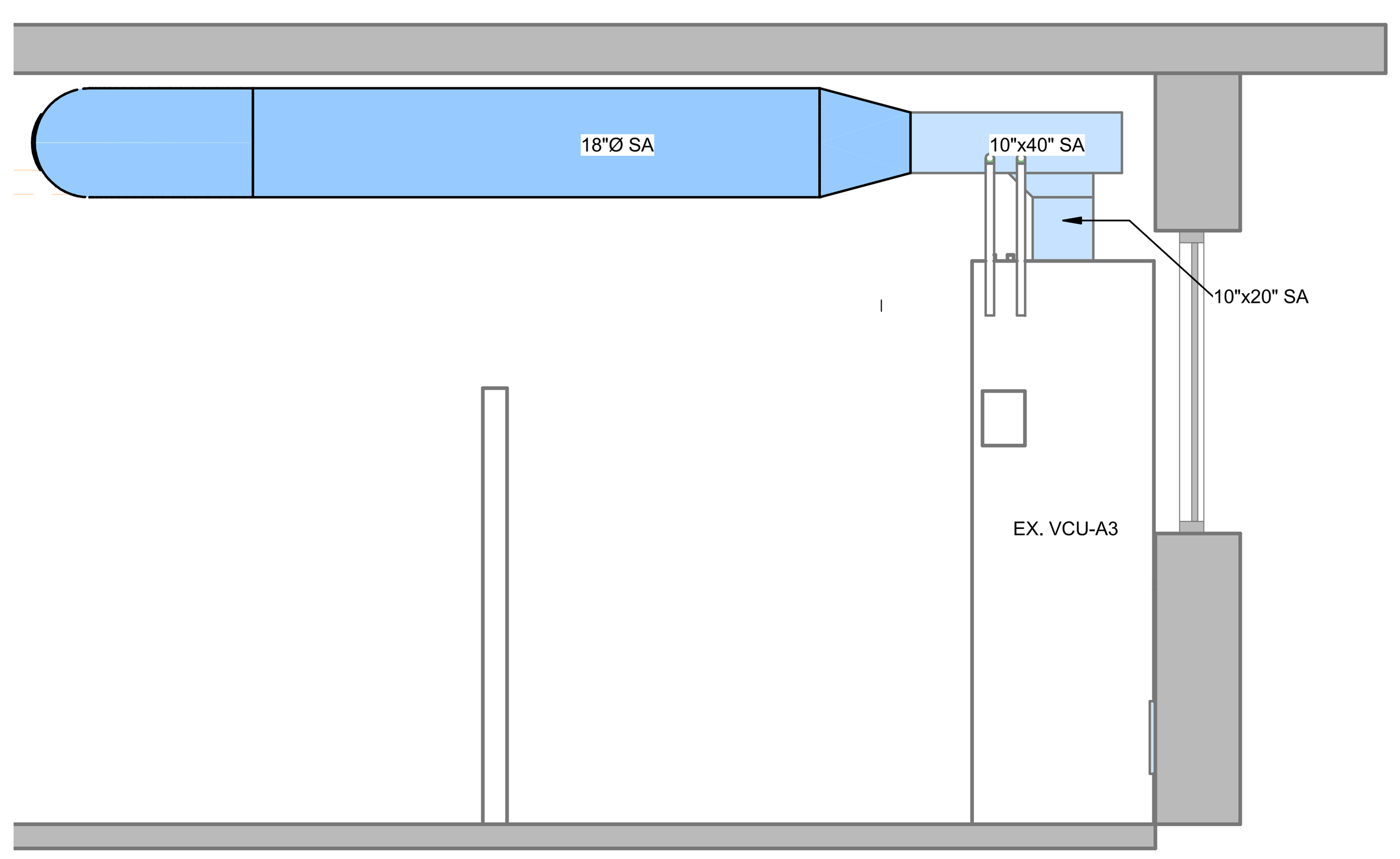
	DX COOLING COIL								
MARK	TOTAL COOLING (BTUH)	SENSIBLE COOLING	DB EAT	WB EAT	EER	IPLV	ROWS	FACE AREA (SF)	EXT. APD (IN-WG)
VUV-A1	27000	21,600 Btu/h	80 °F	67 °F	13.6	13.5	2	4.0	0.0

	HEATING COIL DATA								ELECTRICAL DATA			
MARK	TOTAL HEATING (BTUH)	ROWS	GPM	EWT (°F)	LWT (°F)	EDB (°F)	LDB (°F)	HEAT COIL WPD (FT.)	VOLTS	PH	MOP (A)	NOTES
VUV-A1	64,300	2	8.00	160	143.6	45.6	93.5	1.10	208 V	3	30	1-4

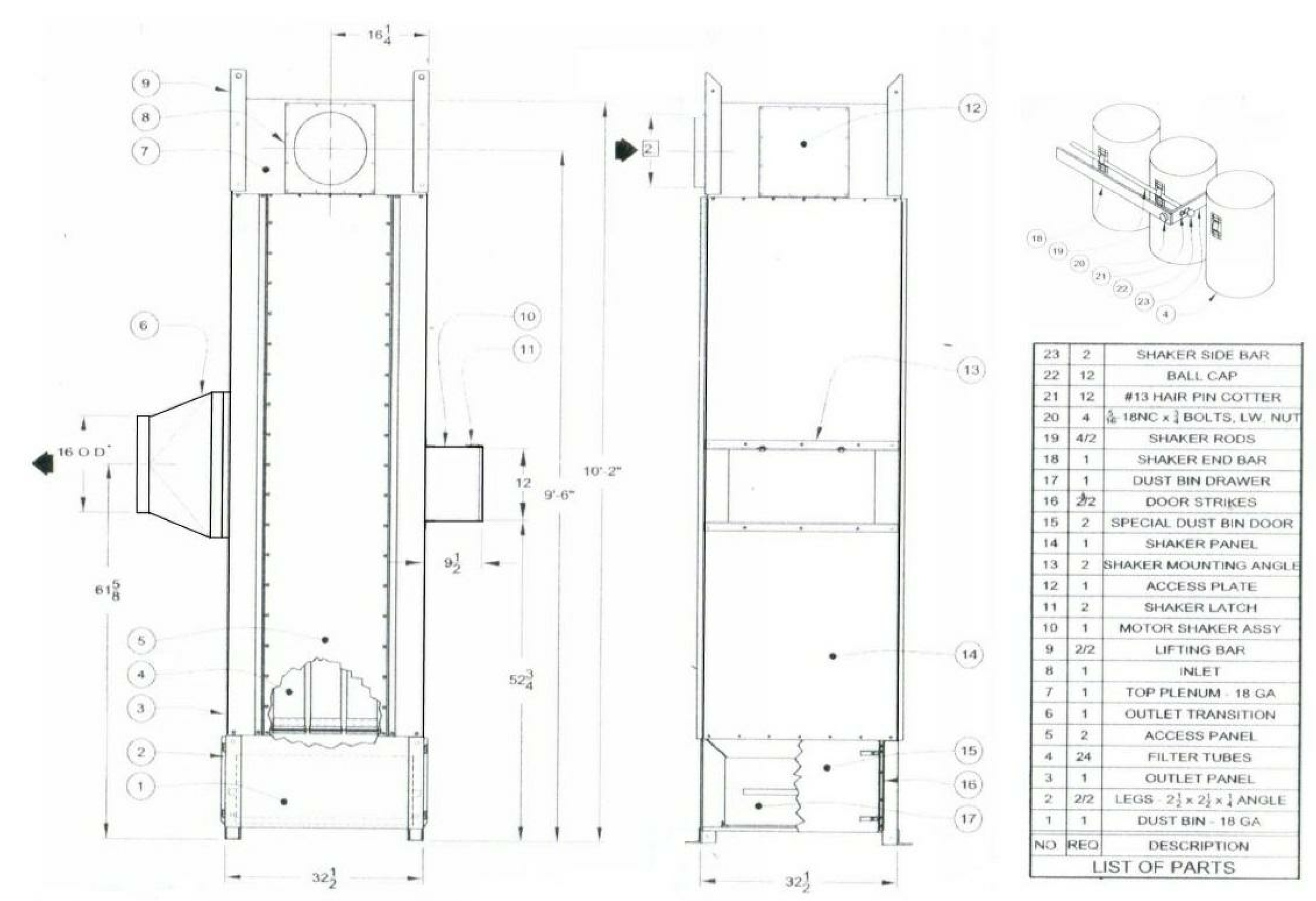
VERTICAL UNIT VENTILATOR SCHEDULE NOTES:
1. ELECTRICAL DISCONNECT BY VUV MANUFACTURER.
2. CONTROLS BY VUV MANUFACTURER.
3. STARTUP AND FINAL COMMISSIONING BY VUV MANUFACTURER.
4. HEATING WATER CONTROL VALVE BY VUV MANUFACTURER.

DUST COLLECTOR SCHEDULE DATA										
IDENTITY DATA			FAN DATA				ELECTRICAL DATA			
MARK	MANUFACTURER	MODEL	EXHAUST AIRFLOW (CFM)	ESP	HP	RPM	VOLTS (V)	PHASE	FREQUENCY	NOTES
DC-A1	DUSKTOP	30SN90-D1-SP	2,000	10.3 in-wg	7.5	3600	460	3	60	1-6

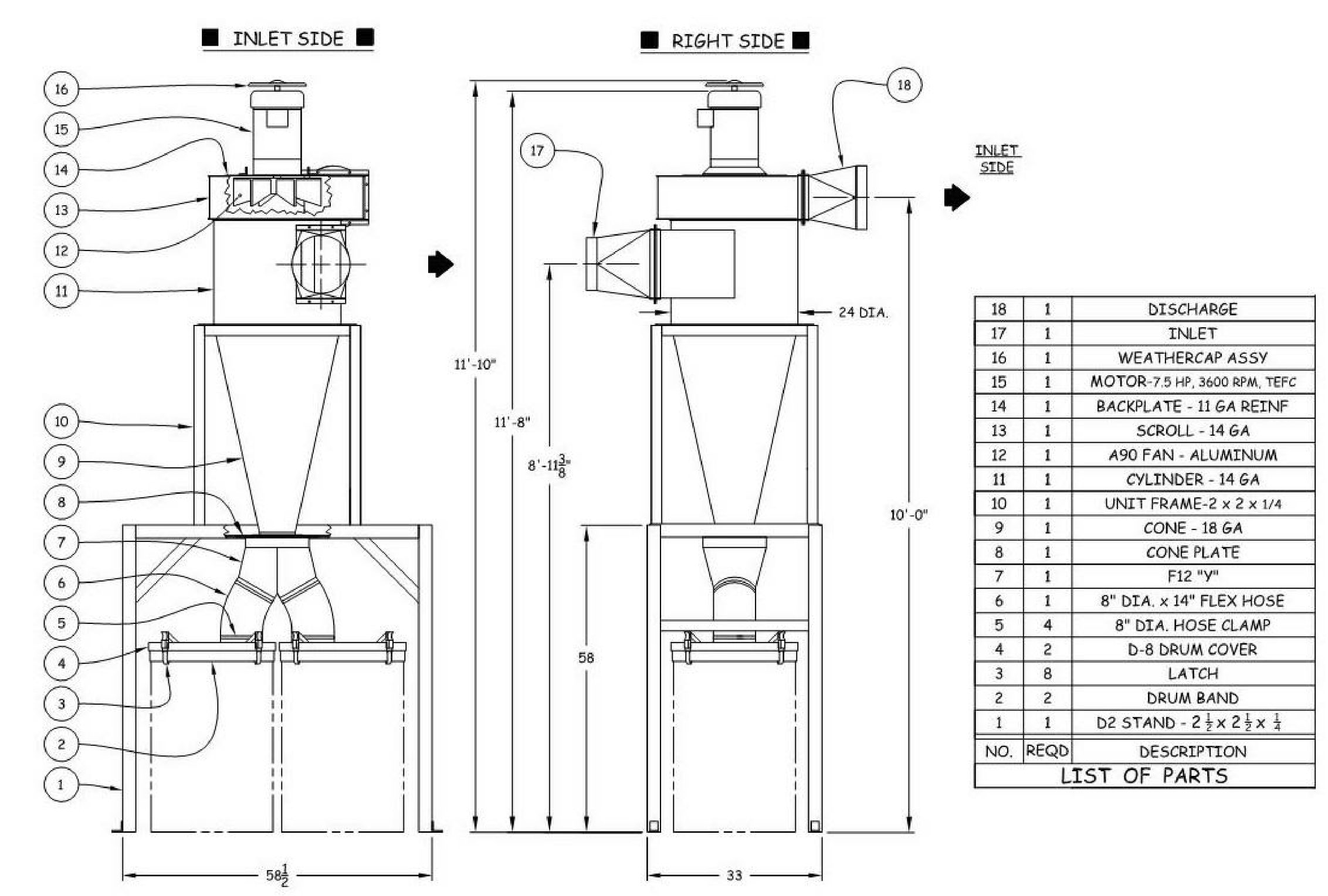
DUST COLLECTOR SCHEDULE NOTES:
1. 24" DIAMETER CYCLONE. 11 GA CYLINDER WEAR PLATE.
2. ANGLE IRON FRAMEWORK. STRUCTURAL STEEL SUPPORT STAND. POWDER COATED.
3. TWO 55-GALLON STORAGE DRUMS. SUPPLY 2 EXTRA DRUMS.
4. EXPLOSION ISOLATION DEVICE/BACKDRAFT DAMPER.
5. 239 SQ. FT. MINIMUM AFTER FILTER STRUCTURALLY SELF-SUPPORTING. WEATHERPROOF.
6. MOTORIZED SHAKER. 1/6 HP, TEFC, 1800 RPM MOTOR.



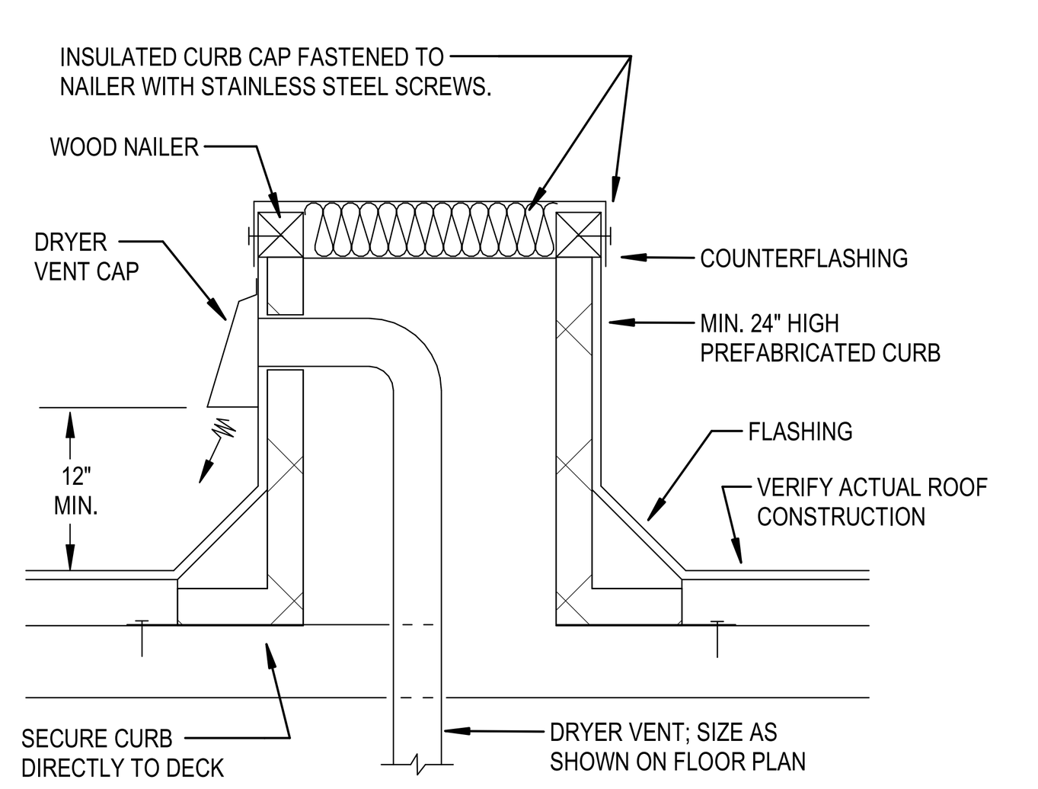
5C EXISTING VUV SECTION
1/2" = 1'-0"



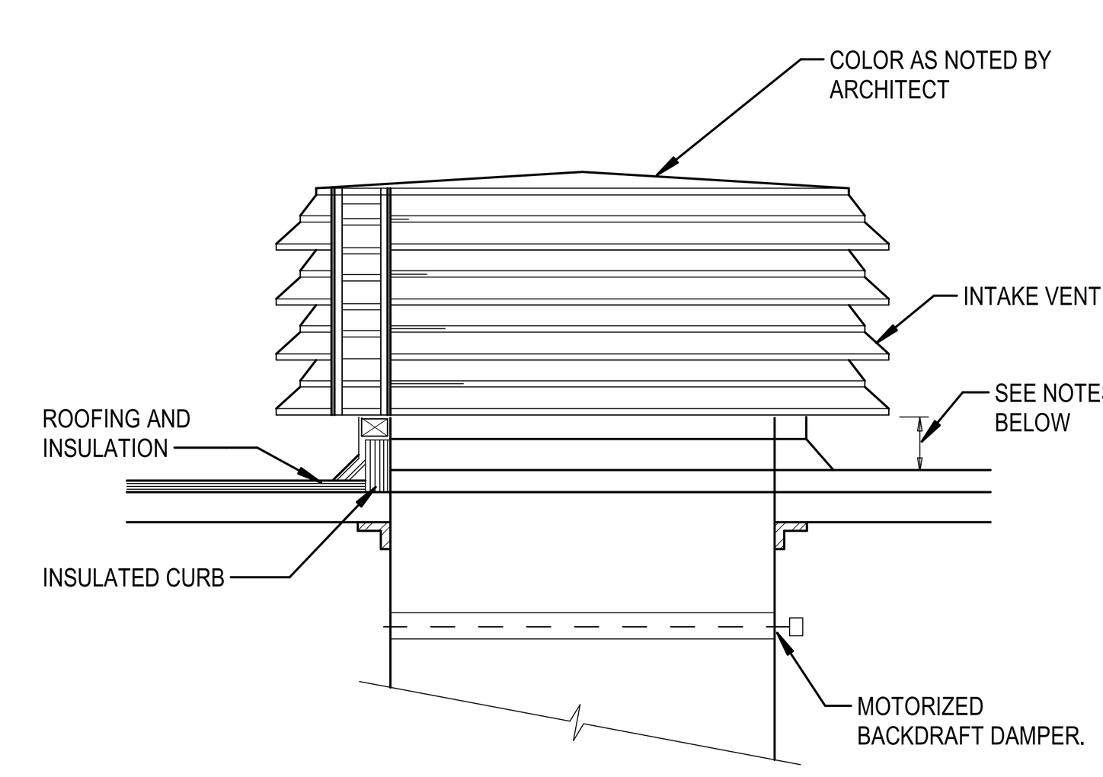
2C PANEL AND MOTOR SHAKER
NOT TO SCALE



1C COLLECTORS AND FILTERS
NOT TO SCALE

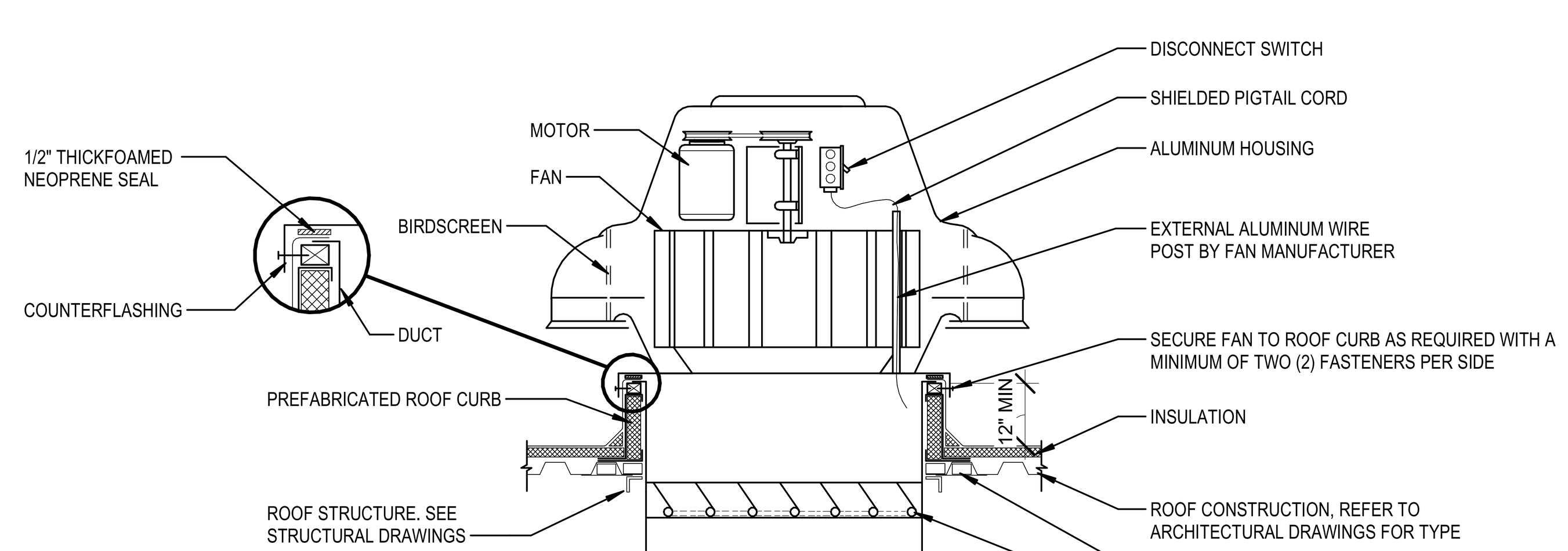


5B DRYER VENT DETAIL
NOT TO SCALE



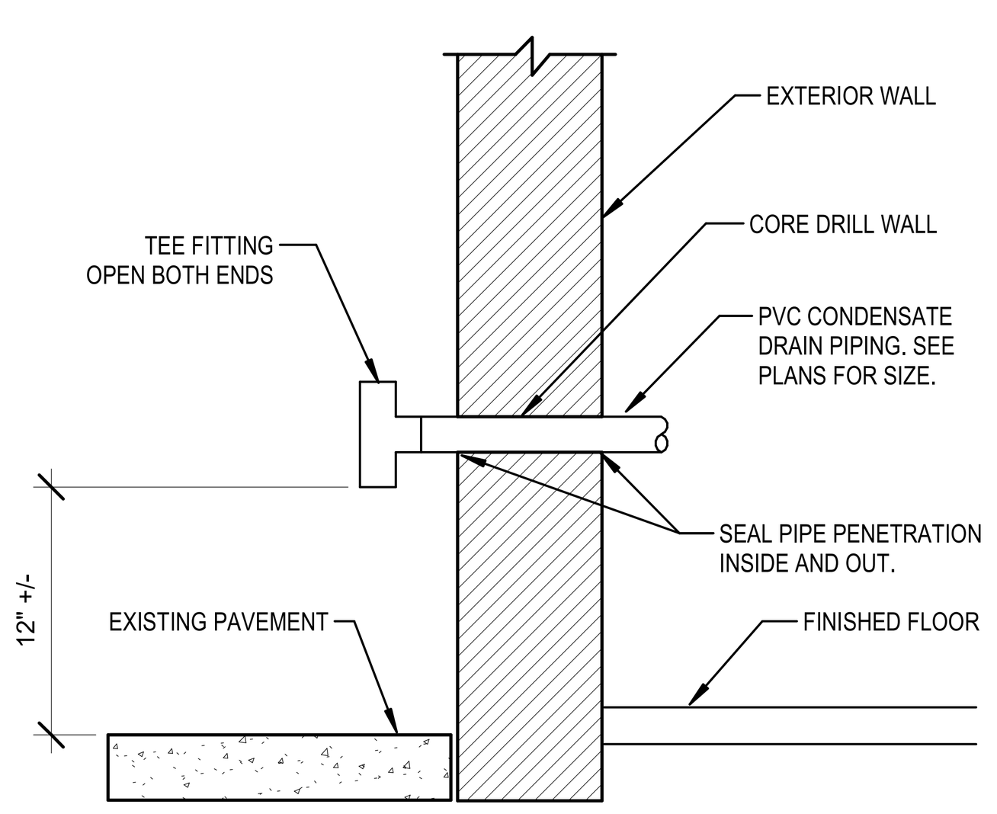
NOTES:
1. MINIMUM FOR AIR INTAKE IS 3' - 0"
2. MINIMUM FOR AIR RELIEF IS 1' - 0"

3B OUTDOOR AIR PENTHOUSE DETAIL
NOT TO SCALE

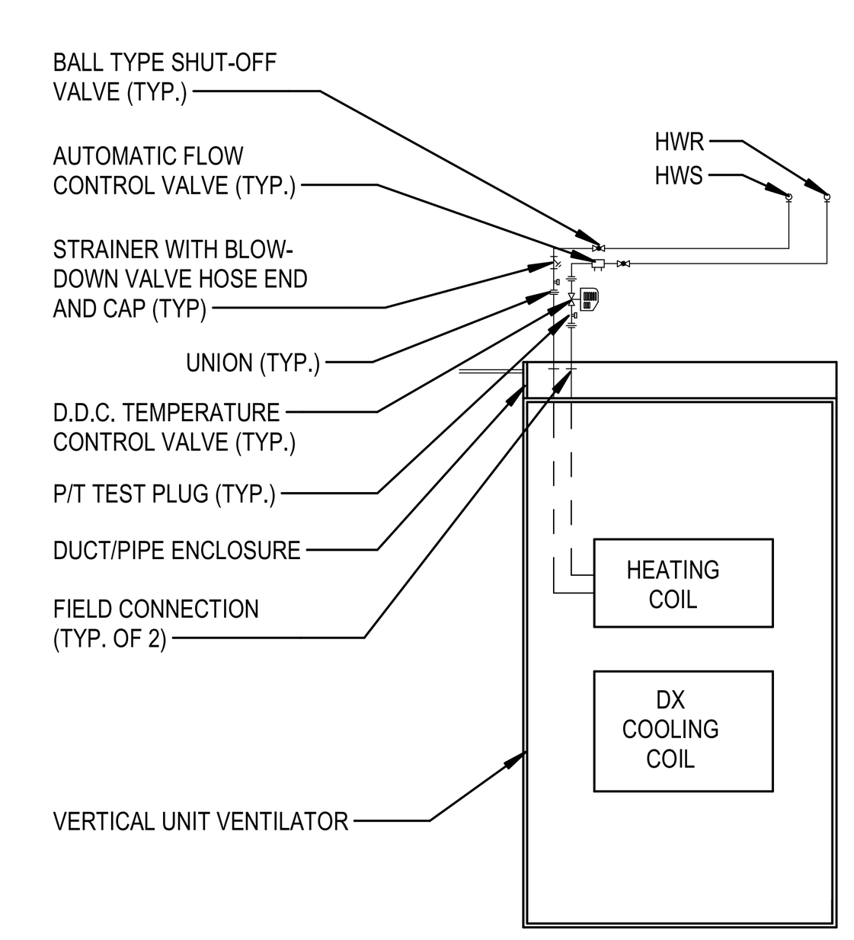


NOTES:
1. ALL POWER ROOF VENTILATORS SHALL BE MOUNTED LEVEL. PROVIDE SLOPED CURBS AND SHIMS AS REQUIRED FOR SLOPED ROOFS. REFER TO ARCHITECTURAL DRAWINGS FOR PITCH OF ROOF.

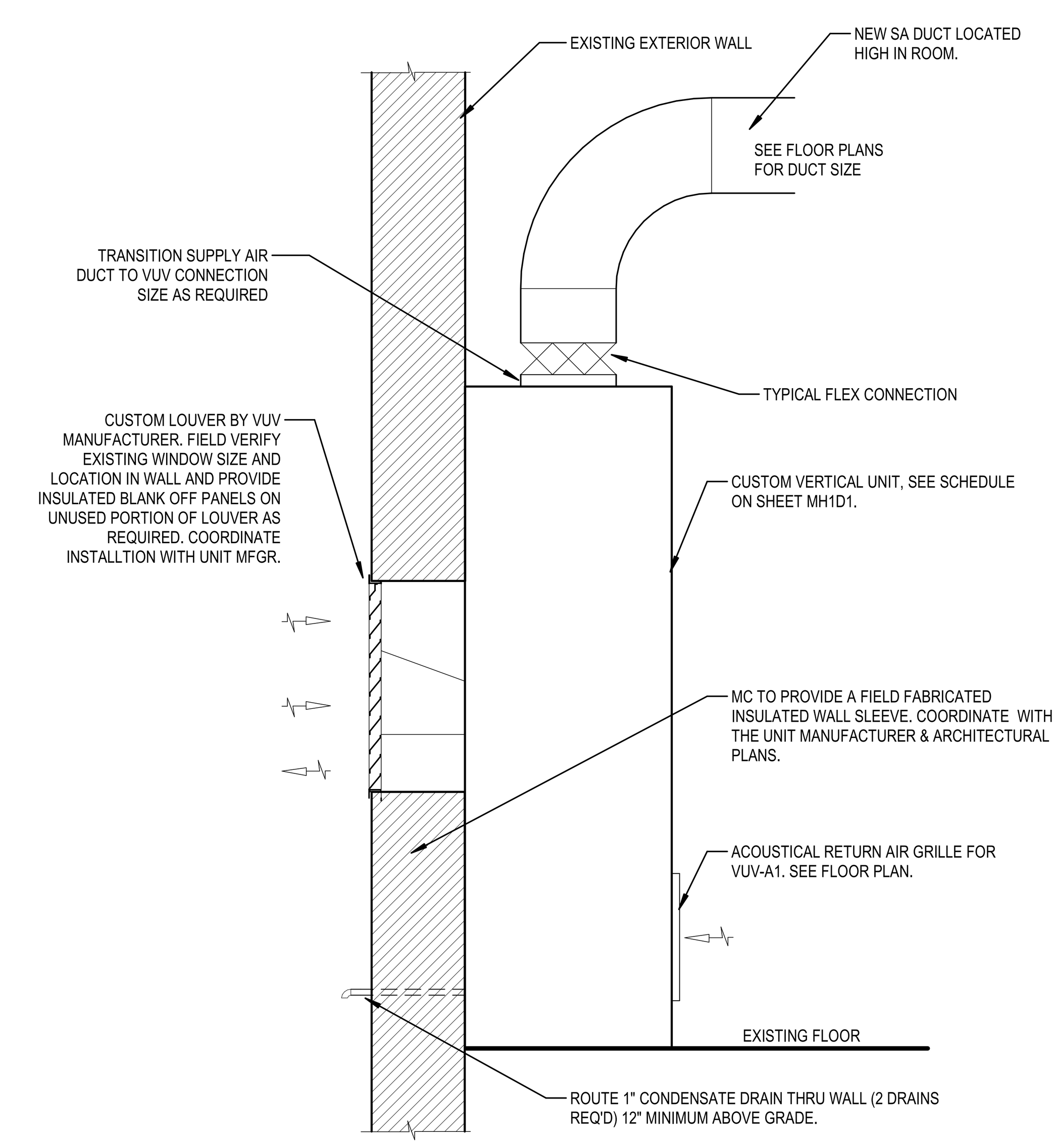
5A POWER ROOF VENTILATOR INSTALLATION DETAIL
NOT TO SCALE



3A EXTERIOR CONDENSATE DRAIN PIPING DETAIL
NOT TO SCALE



2A VERTICAL UNIT VENTILATOR PIPING DETAIL
NOT TO SCALE



NOTE:
MC TO PROVIDE ANY MISCELLANEOUS METAL TRIM PIECES AS REQUIRED TO COMPLETE FINISHED INSTALLATION. MC TO COORDINATE VUV INSTALLATION WITH ARCHITECTURAL FLOOR PLANS AND DETAILS AS REQUIRED.

1A CUSTOM VERTICAL UNIT VENTILATOR
NOT TO SCALE

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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Project Date 03.20.2020
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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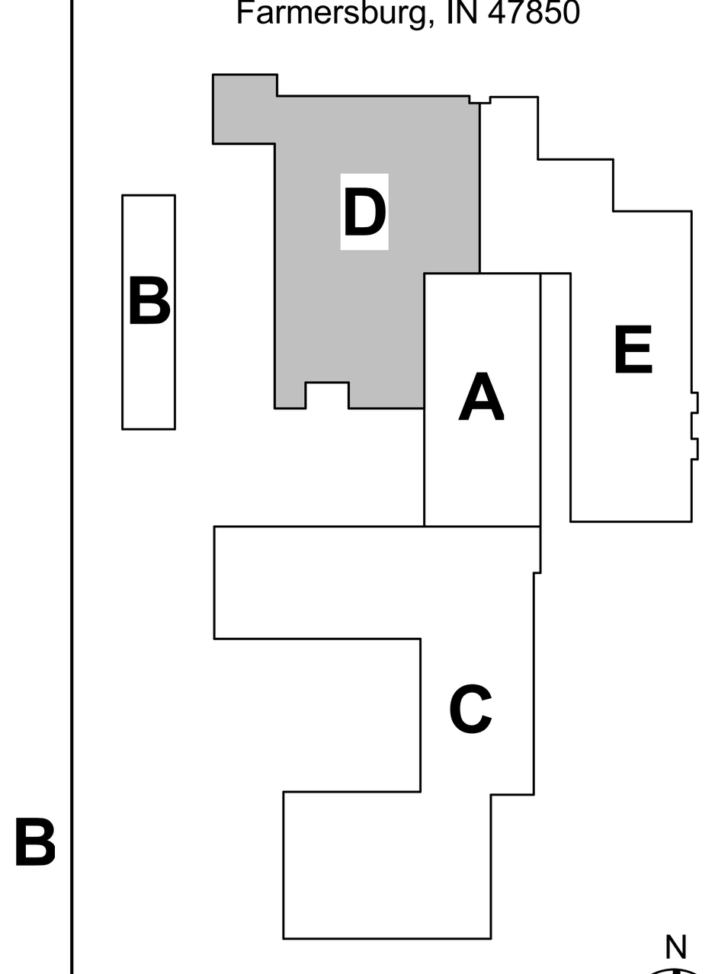

KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

MECHANICAL DETAILS AND SCHEDULES

M-501

ABBREVIATIONS

AD	AREA DRAIN
ADA	AMERICAN DISABILITIES ACT
ADJ	ADJUSTABLE
AE	ANESTHESIA EVACUATION
AFF	ABOVE FINISHED FLOOR
ALTER	ALTERNATE
AMP	AMPERE (AMP, AMPS)
APPROX	APPROXIMAT(E), (LY)
ARCH	ARCHITECT (URAL)
APD	AIR PRESSURE DROP (IN WG)
AV	ACID VENT
AW	ACID WASTE
A	COMPRESSED AIR
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BOP	BOTTOM OF PIPING
BT	BATHTUB
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED
CI	CAST IRON
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONN	CONNECTION
CW	COLD WATER (DOMESTIC)
D	DRAIN
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWS	DOMESTIC WATER SOFTNER
EC	ELECTRICAL CONTRACTOR
ECO	EXTERIOR CLEANOUT
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FLR	FLOOR
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FT	FOOT/FEET
FTG	FOOTING
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
HB	HOSE BIB
HD	HEAD (FT.)
HO	HUB OUTLET
HORIZ	HORIZONTAL
HWCP	HOT WATER RECIRCULATING PUMP
HR	HOUR
HW	HOT WATER (DOMESTIC)
HWR	HOT WATER RETURN
HZ	FREQUENCY (MEGAHERTZ)
ID	INSIDE DIAMETER
IN	INCH/INCHES
INCL	INCLUD(E), (ED)
INDIC	INDICATOR
INSUL	INSULAT(E), (ED), (ION)
INT	INTERIOR
INV	INVERT
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT
L	LAVATORY
LA	LABORATORY AIR
LAB	LABORATORY
LBS	POUND
LEC	LABORATORY EQUIPMENT CONTRACTOR
LFC	LABORATORY FURNISHINGS CONTRACTOR
LP	LIQUID PETROLEUM
LPC	LABORATORY PLUMBING CONTRACTOR
LV	LABORATORY VACUUM
MA	MEDICAL AIR
MAX	MAXIMUM
MB	MOP BASIN
MS	MOP SINK
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NITROGEN
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OFD	OVERFLOW DRAIN
OE	ORAL EVACUATION
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OSD	OPEN SITE DRAIN

ABBREVIATIONS

P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP (IN OR WG AS NOTED)
PER	PERCENT
PH	PHASE
PI	PRESSURE INDICATOR
PIV	POST INDICATOR VALVE
PLT	PLASTER TRAP
POC	POINT OF CONNECTION (NEW TO EXISTING)
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	THERMAL RESISTANCE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECIR	RECIRCULAT(E), (OR), (ING)
RH	RODDING HOLE
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPM	REVOLUTIONS PER MINUTE
SB	SITZ BATH
SCW	SOFT COLD WATER (DOMESTIC)
SECT	SECTION
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SK	SINK
SPEC	SPECIFICATIONS
SPG	SPECIAL GAS
SS	STAINLESS STEEL
SSD	SUB SURFACE (FOOTING) DRAIN
SSK	SERVICE SINK
ST	STORAGE TANK
STD	STANDARD
STP	STORAGE TANK PUMP
STS, STR	STORAGE TANK SUPPLY AND RETURN
STRUCT	STRUCTURE(E), (AL)
SU	SHOWER UNIT
T&P	TEMPERATURE AND PRESSURE
T	TEMPERED WATER
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TS	TAMPER SWITCH
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARIABLE
VB	VACUUM BREAKER
VC	VACUUM CLEANING
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VITRIFIED TILE
VPD	VACUUM PUMP DISCHARGE
VTR	VENT THROUGH ROOF
VV	VACUUM VENT
W/	WITH
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WH	WALL HYDRANT
W/O	WITHOUT
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WTR	WATER
YD	YARD DRAIN
ZN	ZONE

FIRE PROTECTION SYMBOLS

F	FIRE WATER MAIN
	POST INDICATOR VALVE
	FIRE DEPT. CONNECTION
	FLOW SWITCH
TS	TAMPER SWITCH
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	DRY PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	ZONE VALVE (OS&Y)
A	ALARM VALVE

DRAWING NOTATIONS

1 DEMO 1 NEW	PLAN NOTE
3 M-501	DETAIL REFERENCE
2 M-301	SECTION REFERENCE
	NEW TO EXISTING
	DEMO TO THIS POINT
XXX-1	EQUIPMENT TAG - (SEE SCHEDULE SHEETS)
XXX-1	FIXTURE TAG - (SEE SCHEDULE SHEETS)

NOTE:
ALL SYMBOLS AND ABBREVIATIONS
MAY NOT BE USED FOR THIS PROJECT

GENERAL DUTY VALVES & FITTINGS

	RISE IN PIPING
	DROP IN PIPING
	CAPPED PIPE
	PIPE CONTINUED ON ANOTHER DRAWING
	CHECK VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
	VALVE - SEE SPECIFICATIONS FOR VALVE TYPE
	BUTTERFLY VALVE
	ANGLE VALVE
	MANUAL BALANCING VALVE
	AUTOMATIC BALANCING VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	UNION
	THERMOMETER WELL
	THERMOMETER & WELL
	GAUGE CONNECTION(S) & WELL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PETE'S PLUG
	Y-STRAINER W/BLOWDOWN VALVE & CAP
	PIPE GUIDES
	PIPE ANCHORS
	FLEXIBLE PIPING CONNECTOR
	PIPE EXPANSION JOINT
	GAS COCK
A	VACUUM BREAKER (P) = PRESSURE
	DOMESTIC COLD WATER VALVE BOX
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PRESSURE REDUCING VALVE

PIPING SYSTEMS

140° HW	140° DOMESTIC HOT WATER
140° HWR	140° DOMESTIC HOT WATER RETURN
160° HW	160° DOMESTIC HOT WATER
160° HWR	160° DOMESTIC HOT WATER RETURN
AV	ACID RESISTANT VENT
AW	ACID RESISTANT WASTE
AIR	AIR
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
FPD	FIRE PROTECTION DRY
FP	FIRE PROTECTION OTHER
FPPA	FIRE PROTECTION PRE-ACTION
FPW	FIRE PROTECTION WET
G (10 in-wc)	GAS (10" w.c.)
G (2 psig)	GAS (2 psig)
GW	GREASE WASTE
LA	LAB AIR
LCW	LAB COLD WATER
LHW	LAB HOT WATER
LHR	LAB HOT WATER RETURN
LVAC	LAB VACUUM
LVE	LAB VACUUM EXHAUST
N2	NITROGEN
PWR	PURE WATER RETURN
PWS	PURE WATER SUPPLY
RO	REVERSE OSMOSIS WATER
ROR	REVERSE OSMOSIS WATER RETURN
SCW	SOFT COLD WATER
SHW	SOFT HOT WATER
ST	STORM
TW	TEMPERED WATER
VAC	VACUUM
V	VENT
W	WASTE

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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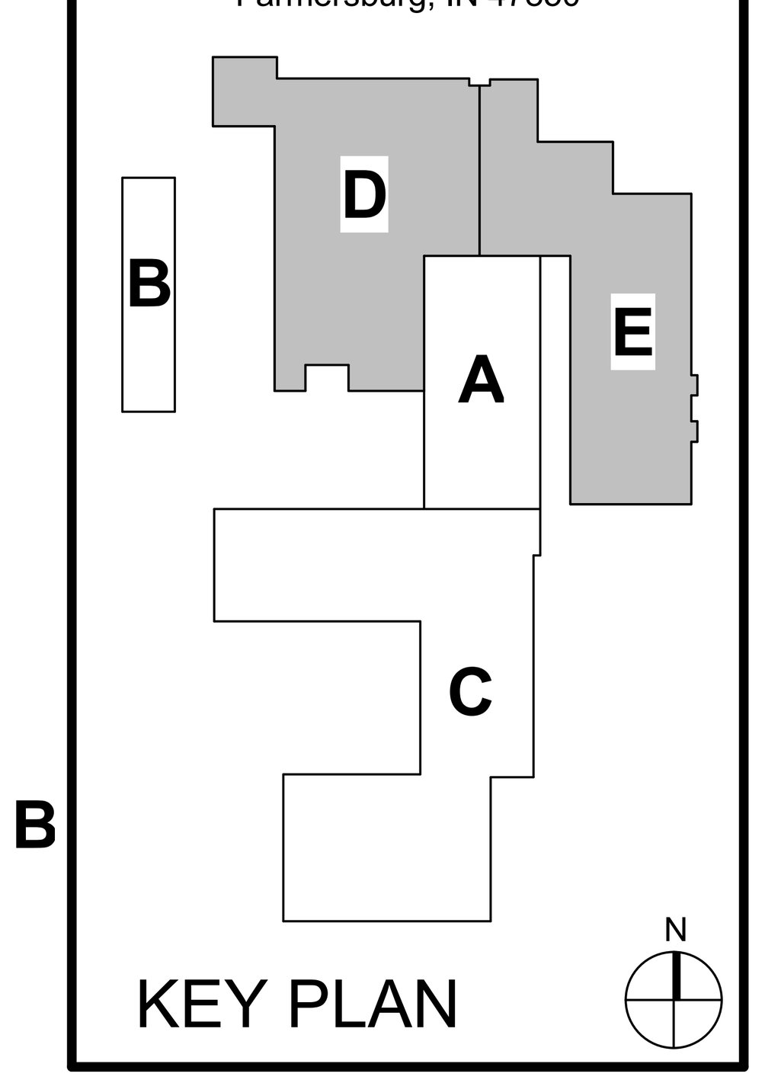
SARAH KATHLEEN HEMPSTEAD REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

Sarah K Hempstead

#	Revision	Date

910 E. Co. Rd. 975 N.
Farmersburg, IN 47850



KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

PLUMBING SYMBOLS AND ABBREVIATIONS

P-001

DEMOLITION PLUMBING PLAN NOTES - ITR

#	NOTE
1	REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING COMPLETE.
2	REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING COMPLETE. PREPARE EXISTING WASTE PIPING BELOW FLOOR FOR NEW CONNECTION.
3	CAP CW & HW PIPING BELOW FLOOR. PATCH FLOOR TO MATCH EXISTING.
4	CAP WATER PIPING BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING.
5	REMOVE EXISTING PLUMBING FIXTURE COMPLETE. REMOVE ASSOCIATED WATER PIPING BACK TO MAIN AND CAP.
6	REMOVE EXISTING WASTE PIPING BACK TO MAIN AND CAP.

PLUMBING EQUIPMENT SCHEDULE

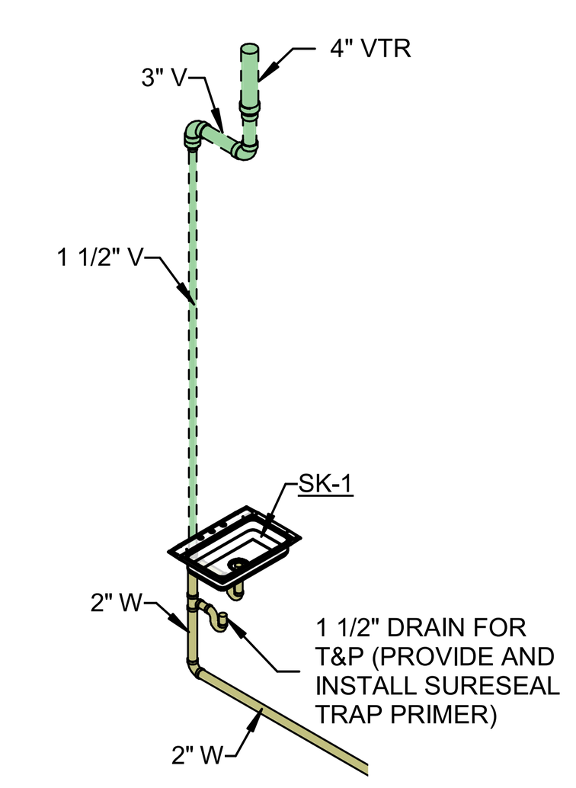
IDENTITY DATA					ELECTRICAL DATA					
MARK	MANUFACTURER	MODEL	DESCRIPTION	CAPACITY	VOLTAGE (V)	PHASE	FLA	RPM	HP	NOTES
DWH-1	RHEEM	#XE02P06PU14U0	ELECTRIC DOMESTIC WATER HEATER	2.5	120 V	1				PIPE T&P VALVE TO DRAIN PROVIDED, PROVIDE POWER CORD

COMMERCIAL SINK SCHEDULE (224216.16)

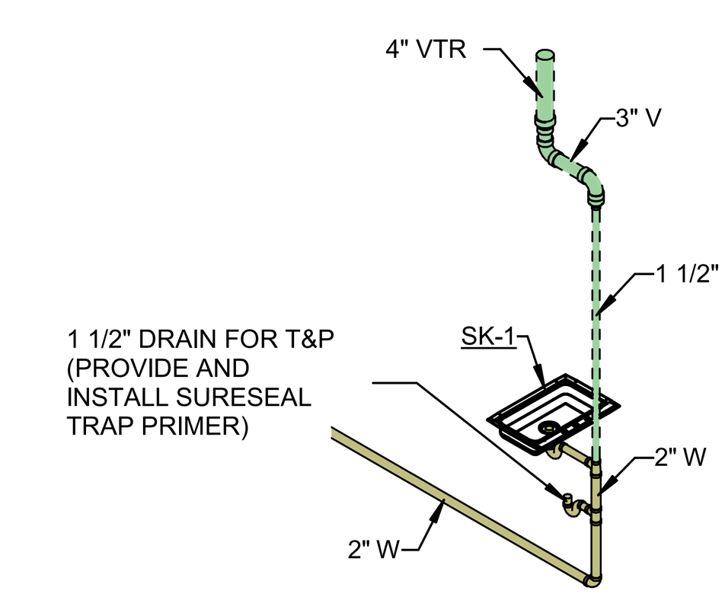
IDENTITY DATA				FAUCET			FIXTURE CONNECTION						
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION	CW	HW	W	V	MOUNTING	ADA COMPLIANT	NOTES
SK-1	ELKAY	#DLR312210PD	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#786-HR8AE3V317XKAB	SINK - SOLID BRASS MANUAL FAUCET	1/2"	1/2"	1 1/2"	1 1/2"	34"	Yes	PROVIDE AND INSTALL ASSE 1070 TMV
SK-2	ACORN	#3403ES-1-H	WASH-WARE 3403 ELLIPTICAL 3 STATION	-	-	(none)	1/2"	1/2"	1 1/2"	1 1/2"	34"	Yes	

DOMESTIC WATER PIPING SPECIALTIES SCHEDULE (221119)

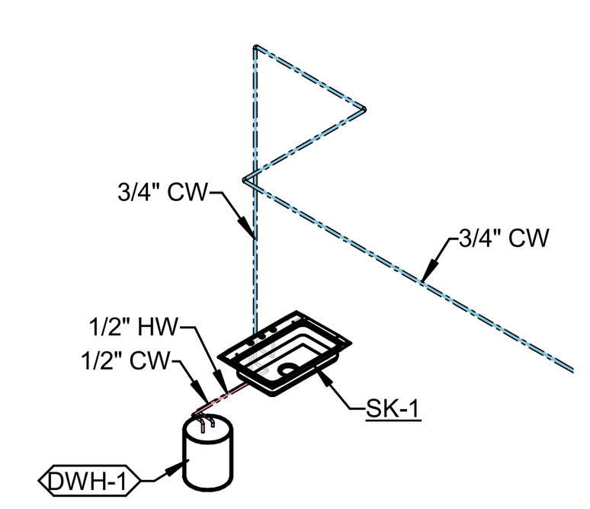
IDENTITY DATA				FIXTURE CONNECTION					
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	HW	W	V	MOUNTING (FLOOR TO OUTLET)	NOTES
HB-1	ZURN	#Z1341	HOSE BIBB	3/4"				12" A.F.F.	



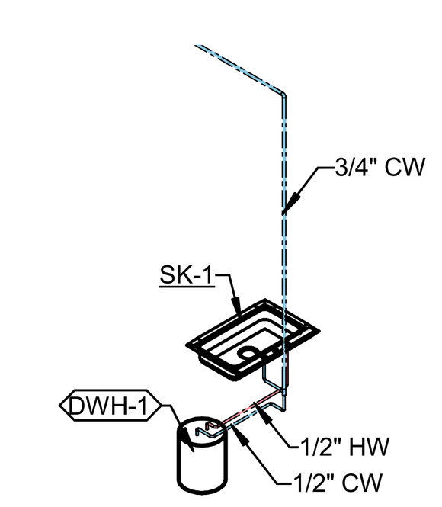
4C SANITARY WASTE AND VENT ISOMETRIC AG LAB #140
NOT TO



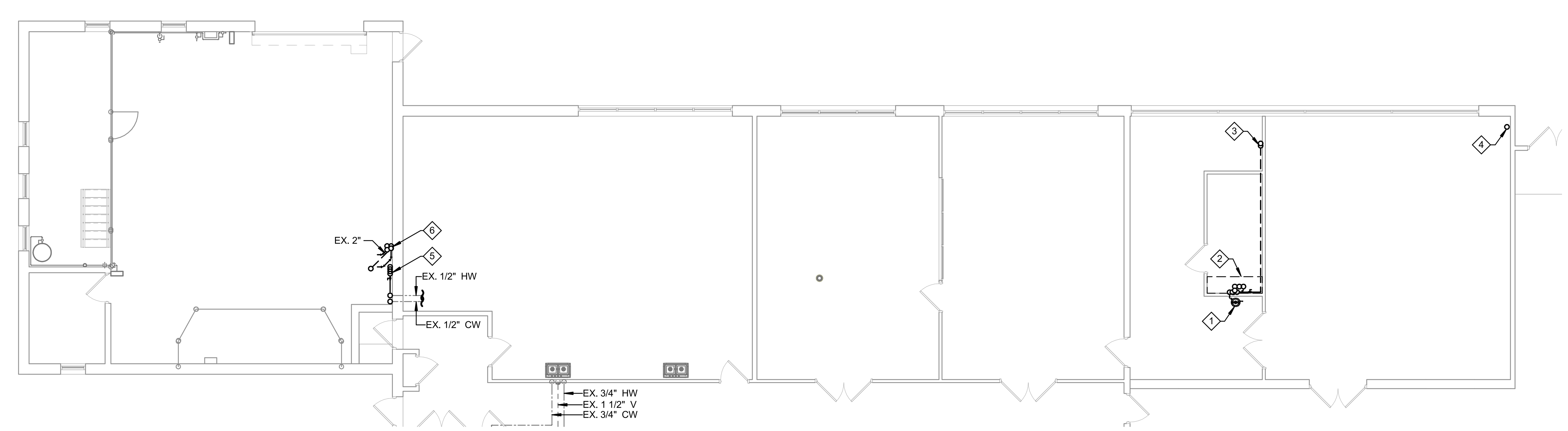
2C SANITARY WASTE AND VENT ISOMETRIC STEM LAB #138
NOT TO



4B DOMESTIC WATER ISOMETRIC AG LAB #140
NOT TO



2B DOMESTIC WATER ISOMETRIC STEM LAB #138
NOT TO



2A DEMOLITION FIRST FLOOR PLUMBING PLAN - ITR
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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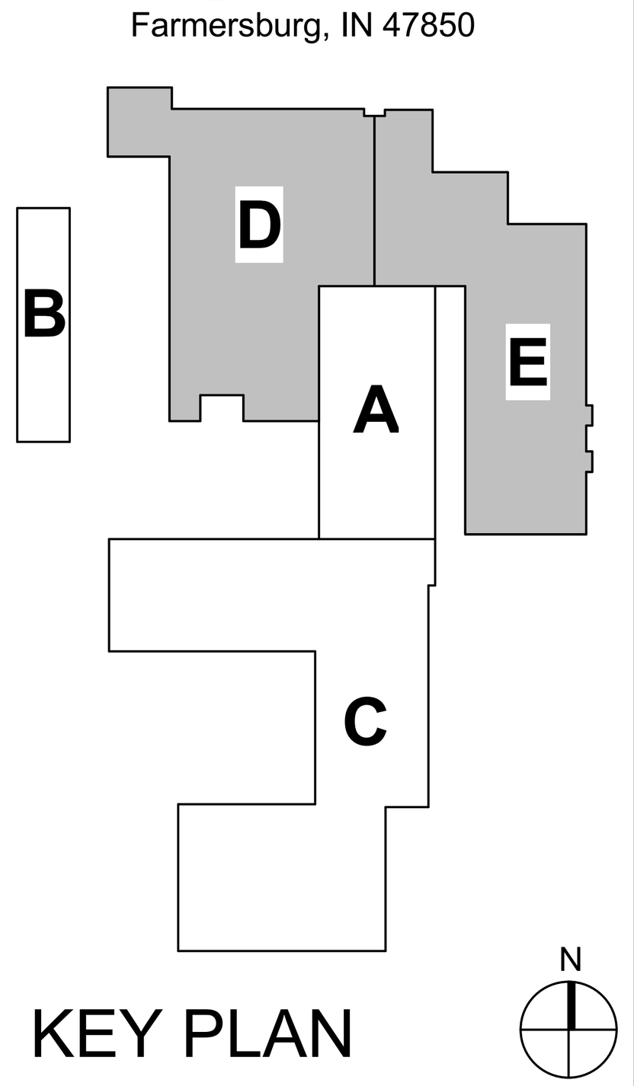


KEY PLAN

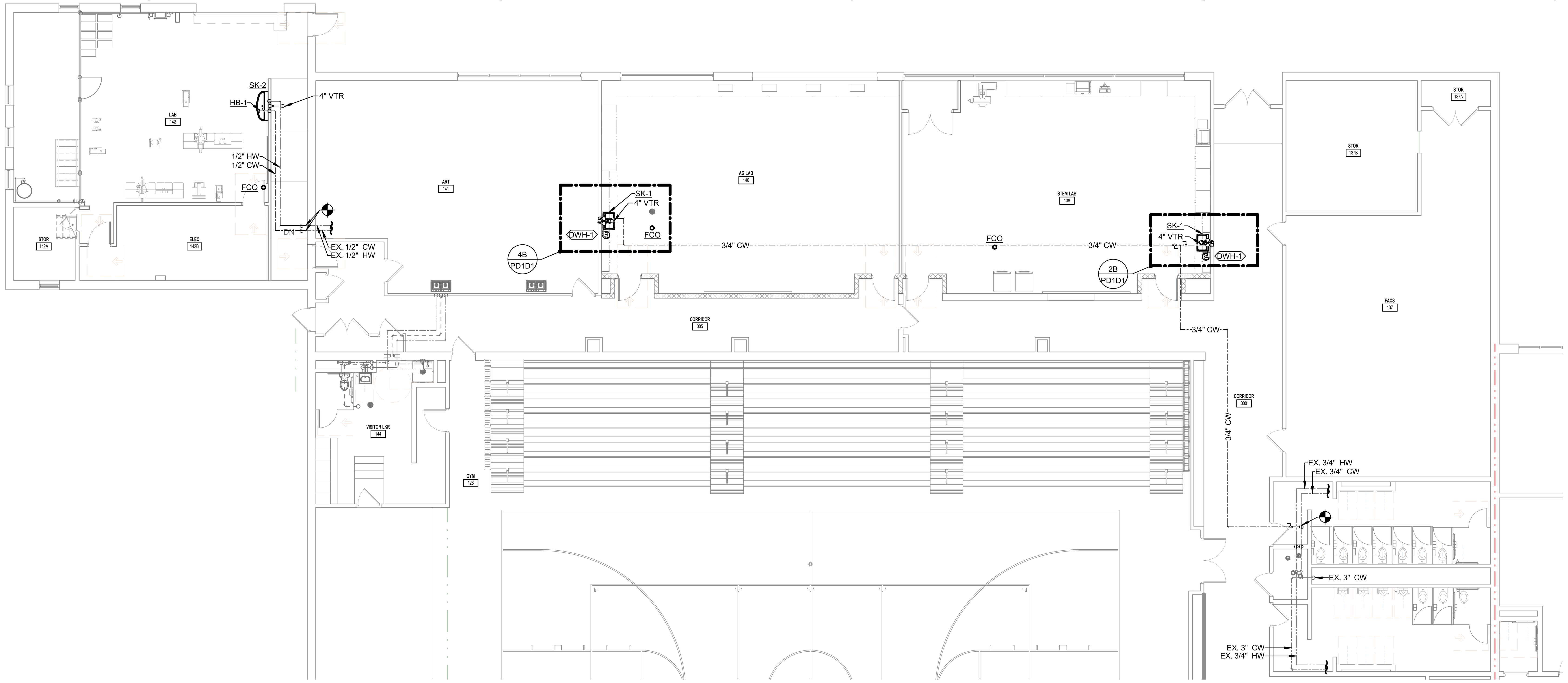
Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

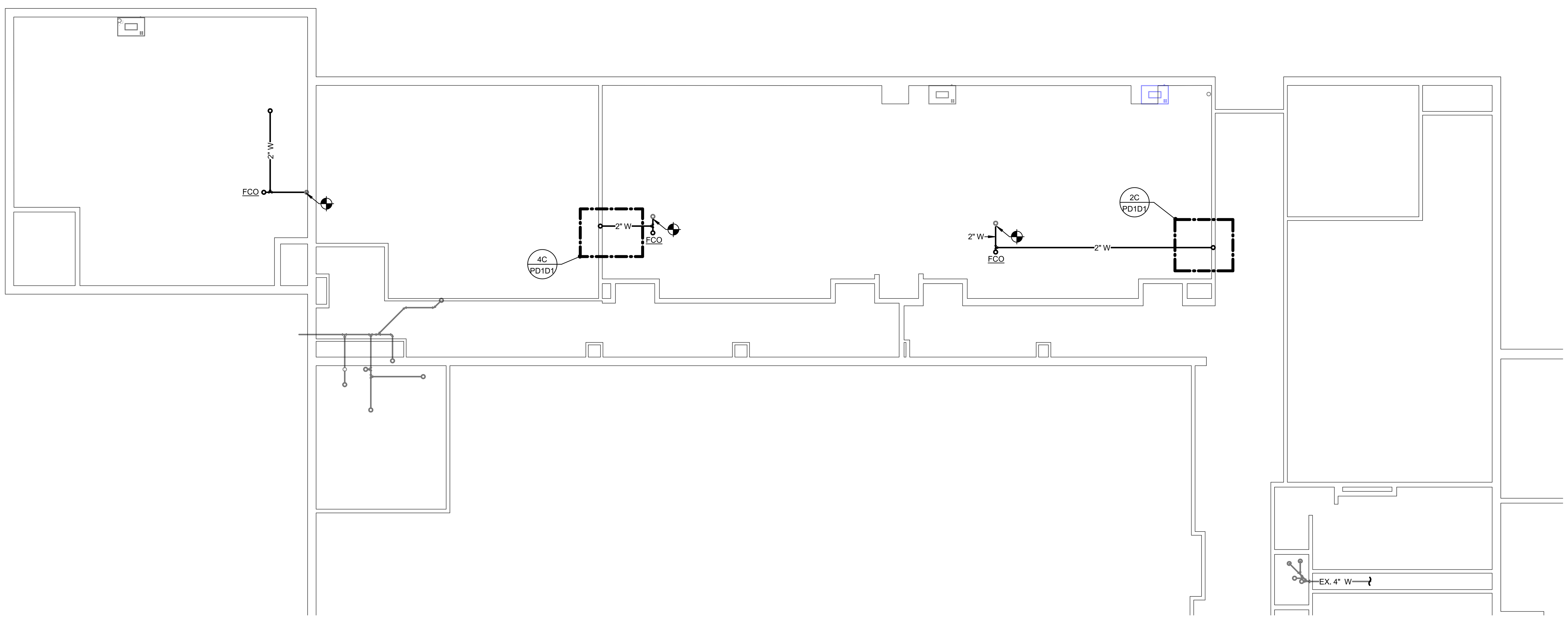
DEMOLITION FIRST FLOOR PLUMBING PLAN - UNIT D AND ISOMETRICS AND SCHEDULES

PD1D1

PLUMBING FIXTURE ROUGH-IN LEGEND				
	FIXTURE CONNECTION			
MARK	CW	HW	W	V
FD-1 (2")			2"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
HB-1	3/4"			
SH-1	1/2"	1/2"		
SH-2	1/2"	1/2"		
SK-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	1/2"	1/2"	1 1/2"	1 1/2"
UR-1	3/4"		2"	1 1/2"
WC-1	1"		4"	2"
WC-2	1"		4"	2"



2C FIRST FLOOR PLUMBING PLAN - ITR
1/8" = 1'-0"



2A FOUNDATION PLUMBING PLAN - ITR
1/8" = 1'-0"

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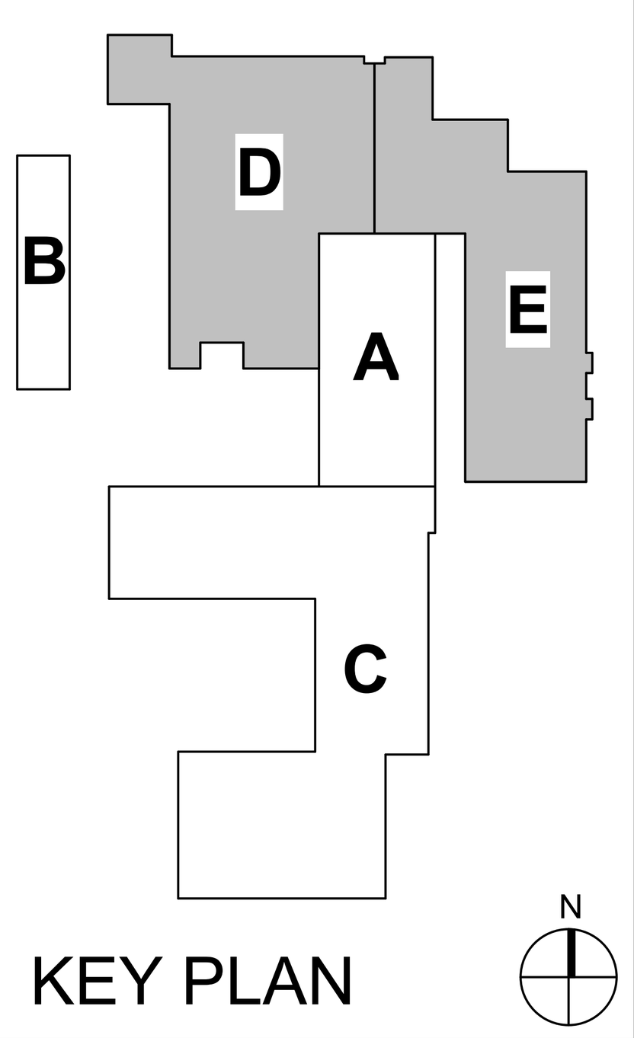


KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

FOUNDATION AND FIRST FLOOR PLUMBING PLANS - UNIT D

PP1D2

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERES FRAME (BREAKER RATING)
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AT	AMPERES TRIP (BREAKER SETTING)
ATS	AUTOMATIC TRANSFER SETTING
AUX	AUXILIARY
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DL	DOUBLE LUGS
D	POWER DISTRIBUTION PANEL
DW	DRAWING
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
ELEC	ELECTRIC/ELECTRICAL
EM/EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
F	FUSE
FA	FIRE ALARM
FB	FLOOR BOX
FDR	FEEDER
FL	FLOOR
FLEX	FLEXIBLE
FTB	FEED THRU BUS
G	GROUND
GRND	GROUND
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLTS-AMPERES
KVAR	KILOVOLTS-AMPERES-REACTIVE
KW	KILOWATTS
KWH	KILOWATT-HOURS
LA	LIGHTNING ARRESTOR
LP	LIGHTING PANELBOARD
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
N.T.S.	NOT TO SCALE
OC	ON CENTER
OL'S	OVERLOADS
P	POLE
PB	PUSH BUTTON
PH/Ø	PHASE
PT	POTENTIAL TRANSFORMER
RCLP	REMOTE CONTROL LIGHTING PANEL
RECPT.	RECEPTACLE
RF	RETURN FAN
RP	RECEPTACLE PANELBOARD
RSC	RIGID STEEL CONDUIT
SCHED	SCHEDULE
SF	SUPPLY FAN
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
TB	TERMINAL BLOCK
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WIRE

ELECTRICAL LEGEND & SYMBOLS

LIGHTING

SUBSCRIPTS FOR LIGHTING FIXTURES INDICATE THE FOLLOWING,
NL - NIGHT LIGHT, PANEL SWITCHED,

	LIGHTING FIXTURE - TYPE AS INDICATED
	WALL MOUNTED FIXTURE - TYPE AS INDICATED
	LIGHTING FIXTURE - TYPE AS INDICATED
	POLE MOUNTED LIGHTING FIXTURE - TYPE AS INDICATED
	TRACK LIGHTING FIXTURE
	EMERGENCY BATTERY WALL PACK LIGHTING FIXTURE - TYPE AS INDICATED
	SHADING INDICATES EMERGENCY FIXTURE CONNECTED TO BATTERY INVERTER OR GENERATOR. CONNECT TO UNSWITCHED SOURCE IN ADDITION TO SWITCHING INDICATED
	EXIT LIGHT - WALL/CEILING MOUNTED - DIRECTIONAL ARROWS AS INDICATED, SHADING INDICATES ILLUMINATED FACE. CONNECT TO UNSWITCHED BRANCH CIRCUIT INDICATED

POWER DISTRIBUTION

	POWER DISTRIBUTION PANELBOARD - 480Y/277V, 3Ø, 4W & GRD, U.O.N.
	POWER DISTRIBUTION PANELBOARD - 208Y/120V, 3Ø, 4W & GRD, U.O.N.
	BRANCH CIRCUIT PANELBOARD 208Y/120V OR 480Y/277V, 3Ø, 4W & GRD, U.O.N. (FLUSH/SURFACE)
	TERMINAL CABINET, TYPE AS NOTED ON DRAWINGS (FLUSH/SURFACE)
	TRANSFORMER - TYPE AND RATING AS INDICATED, NL INDICATES NON-LINEAR TYPE
MCB	SWITCHBOARD W/MAIN CIRCUIT BREAKER SECTION
ATS	AUTOMATIC TRANSFER SWITCH
	WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT
UG	UNDERGROUND CONDUIT/DUCTBANK
FB	FEEDER BUSWAY
PB	PLUG-IN BUSWAY
G	GROUND CABLE, SIZE AS INDICATED
GB	GROUND BUS
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
M EMH	ELECTRIC MANHOLE
	HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED
	GROUND WIRE
	PHASE WIRE
	NEUTRAL WIRE
	GROUND ROD
M	MOTOR - "M" INDICATES HORSEPOWER
	HEAVY-DUTY DISCONNECT SWITCH, NON-FUSED, NUMBER OF POLES AS REQUIRED FOR APPLICATION, PROVIDE SWITCH AMPACITY AS INDICATED (DS-#)
	HEAVY-DUTY DISCONNECT SWITCH, FUSED, NUMBER OF POLES AS REQUIRED FOR APPLICATION, PROVIDE SWITCH AMPACITY AS INDICATED (DS-#)
	COMBINATION MOTOR STARTER (MS-#)
	VARIABLE FREQUENCY DRIVE (MS-#)
$M	MOTOR RATED SWITCH (120V, SINGLE PHASE, HORSEPOWER RATED TOGGLE SWITCH)
C P	CAPACITOR - WHERE "P" INDICATES KVAR SIZE.
	EMERGENCY SHUTOFF PUSHBUTTON
	PUSH BUTTON CONTROL STATION

WIRING DEVICES

SUBSCRIPTS FOR RECEPTACLES, JUNCTION BOXES AND OTHER DEVICES INDICATE THE FOLLOWING, U.O.N:

F - FLUSH IN FLOOR
GFCI - GROUND FAULT CIRCUIT INTERRUPTER
H - HORIZONTALLY MOUNTED
IG - ISOLATED GROUND
L - LOCKING TYPE
TP - TAMPER RESISTANT
S - SURFACE MOUNTED
WP - WEATHERPROOF IN-USE
X - MOUNTED IN EXISTING OUTLET BOX

	125V. 20A., (WALL/+2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) SIMPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
GFCI GFCI	125V. 20A., (WALL/+2" ABOVE BACKSLPASH OR COUNTERTOP TO BOTTOM) DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	125V. 20A., (WALL/+2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
GFCI	125V. 20A., (CEILING, MOUNTED) DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
	125V. 20A., (WALL/+2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) EMERGENCY DUPLEX RECEPTACLE, 2 POLE, 3 WIRE (NEMA 5-20R)
GFCI GFCI	125V. 20A., (WALL/+2" ABOVE BACKSPLASH OR COUNTERTOP TO BOTTOM) DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE, CONNECTED TO EMERGENCY POWER SYSTEM, 2 POLE, 3 WIRE (NEMA 5-20R)
	SPECIAL RECEPTACLE - NEMA CONFIGURATION AS INDICATED ON DRAWING
J J	JUNCTION BOX (RECESSED/SURFACE)
	DIRECT CONNECTION TO EQUIPMENT
PB	PULLBOX. PROVIDE PULLBOXES INDICATED AS A MINIMUM. PROVIDE ADDITIONAL PULLBOXES, SIZED PER NEC, AS REQUIRED
J	FLUSH JUNCTION BOX WITH FURNITURE FEED ADAPTING CONNECTOR MOUNTED AT 6" A.F.F.
GFCI GFCI GFCI	SURFACE-MOUNTED RACEWAY WITH RECEPTACLES IN LOCATIONS INDICATED
	WIREWAY - WALL MOUNTED U.O.N.
FB	FLOOR BOX
D	DIMMER SWITCH
$	SINGLE POLE SWITCH
$3	THREE-WAY SWITCH
$4	FOUR-WAY SWITCH
$P	SINGLE POLE SWITCH W/ PILOT LIGHT
$3P	THREE-WAY SWITCH WITH PILOT LIGHT
$K	KEY OPERATED SINGLE POLE SWITCH
$3K	KEY OPERATED THREE-WAY SWITCH
$OS1	WALL-MOUNTED, DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH (1) MANUAL OVERRIDE LIGHT SWITCH, MANUAL-ON-OFF/AUTOMATIC-OFF OPERATION
$OS2	WALL-MOUNTED, DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH (2) MANUAL OVERRIDE LIGHT SWITCHES, MANUAL-ON-OFF/AUTOMATIC-OFF OPERATION
O1	1000SQFT COVERAGE, CEILING-MOUNTED, DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH TWO RELAYS, DISTRIBUTION COVERAGE AS REQUIRED FOR SPACE SIZE
O2	2000SQFT COVERAGE, CEILING-MOUNTED, DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH TWO RELAYS, DISTRIBUTION COVERAGE AS REQUIRED FOR SPACE SIZE
HB	HIGHBAY COVERAGE, CEILING-MOUNTED, DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH TWO RELAYS, DISTRIBUTION COVERAGE AS REQUIRED FOR SPACE SIZE

FIRE ALARM SYSTEM

SUBSCRIPTS FOR FIRE ALARM SYSTEM DEVICES INDICATE THE FOLLOWING, U.O.N:

S - SURFACE MOUNTED
WP - WEATHERPROOF
X - MOUNTED IN EXISTING OUTLET

FACP FACP	FIRE ALARM CONTROL PANEL (FLUSH/SURFACE)
RACP RACP	REMOTE FIRE ALARM CONTROL PANEL (FLUSH/SURFACE)
FAAP FAAP	FIRE ALARM ANNUNCIATOR PANEL (FLUSH/SURFACE)
M	MANUAL PULLSTATION
S	SPEAKER
S	SPEAKER/STROBE
H	HORN
H	HORN/STROBE
V	VISUAL STROBE
B	BELL WITH VISUAL INDICATOR
F S	SMOKE DETECTOR
F R	HEAT DETECTOR
D S	DUCT DETECTOR - SUPPLY DUCT
D R	DUCT DETECTOR - RETURN DUCT
R	DOOR HOLD RELEASE DEVICE
AR	ADDRESSABLE RELAY
TS	SPRINKLER SYSTEM TAMPER SWITCH
FS	SPRINKLER SYSTEM FLOW SWITCH
PS	SPRINKLER SYSTEM PRESSURE SWITCH
P	POST INDICATOR VALVE

(NOTES APPLY TO ALL ELECTRICAL DRAWINGS)

GENERAL NOTES

#	NOTES
A	CONNECT ALL LIGHTING FIXTURES WITHIN ROOM TO INDICATED SWITCH AND BRANCH CIRCUIT, U.O.N.
B	WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT PHONES) ARE INDICATED, PROVIDE MULTI-GANGEBACK OUTLET BOXES WITH GANG BARRIERS AND A COMMON FACEPLATE FOR SIMILIAR DEVICES.
C	WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR, MOUNT AS FOLLOWS: IF THE DISTANCE BETWEEN THE TOP OF THE DOOR FRAME AND THE CEILING IS 24 INCHES OR LESS, CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. OTHERWISE, MOUNT BOTTOM OF EXIT SIGN 6 INCHES ABOVE TOP OF DOOR FRAME. MOUNT OTHER WALL MOUNTED EXIT SIGNS LOCATED WITHIN THE SAME AREA AT THE SAME HEIGHT.
D	WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES.
E	WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES.
F	INSTALL SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL 120V AND 277V CIRCUITS. DO NOT SHARE NEUTRALS.
G	ALL EXIT FIXTURES AND FIXTURES INDICATED WITH "NL" SHALL BE UNSWITCHED.
H	INSTALL NO MORE THAN THREE PHASE CONDUCTORS (PLUS NEUTRALS AND GROUND) PER CONDUIT UNLESS T310-15 NEC IS FOLLOWED.
I	NUMBER OF WIRES INDICATED ON DRAWINGS, IN PANEL SCHEDULES AND CIRCUIT SIZING SCHEDULES APPLIES TO CURRENT CARRYING CONDUCTORS INCLUDING NEUTRALS. IN ADDITION TO THE NUMBER OF WIRES INDICATED, PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR SIZED AS SCHEDULED OR SIZED BY NEC 250.
J	UNLESS OTHERWISE NOTED, PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING SERVING THE CIRCUIT. REFER TO CIRCUIT SIZING SCHEDULE FOR SIZES OF FEEDERS AND BRANCH CIRCUITS.
K	COORDINATE LOCATION OF CEILING MOUNTED FIRE ALARM DEVICES WITH OTHER EQUIPMENT TO AVOID INTERFERENCE. LOCATE FIRE ALARM DEVICES AS NEAR TO LOCATION INDICATED WHILE AVOIDING INTERFERENCES.
L	MAKE FINAL CONNECTION BETWEEN DISCONNECT AND EQUIPMENT BEING SERVED BY FEEDER OR BRANCH CURRENT.
M	DIVISION 26 CONTRACTOR SHALL REFER TO LIFE SAFETY PLAN FOR FIRE-RATING REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE-RATED DEVICES/SEALS AS SHOWN ON ELECTRICAL DRAWINGS AND AS REQUIRED BASED ON LIFE SAFETY PLAN INFORMATION.
N	PER NEC ARTICLE 110.26(A) AND 110.26(F) THE DEDICATED ELECTRICAL SPACE INCLUDES THE SPACE DEFINED BY EXTENDING THE FOOTPRINT OF THE ELECTRICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, MOTOR CONTROLLERS) FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE HEIGHT OF THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICH EVER IS LOWER. THE DEDICATED ELECTRICAL SPACE MUST BE CLEAR OF ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION. PLUMBING, HEATING, VENTILATION, AND AIR-CONDITIONING PIPING, DUCTS, AND EQUIPMENT MUST BE INSTALLED OUTSIDE THE WIDTH AND DEPTH ZONE. CONTRACTOR SHALL MAKE SURE NO PIPING OR DUCT WORK IS INSTALLED ABOVE THE ELECTRICAL EQUIPMENT. COORDINATE THESE REQUIREMENTS WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
O	CONTRACT DOCUMENTS CONSISTS OF BOTH A PROJECT MANUAL AND DRAWINGS. BOTH ARE MEANT TO BE COMPLEMENTARY - ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

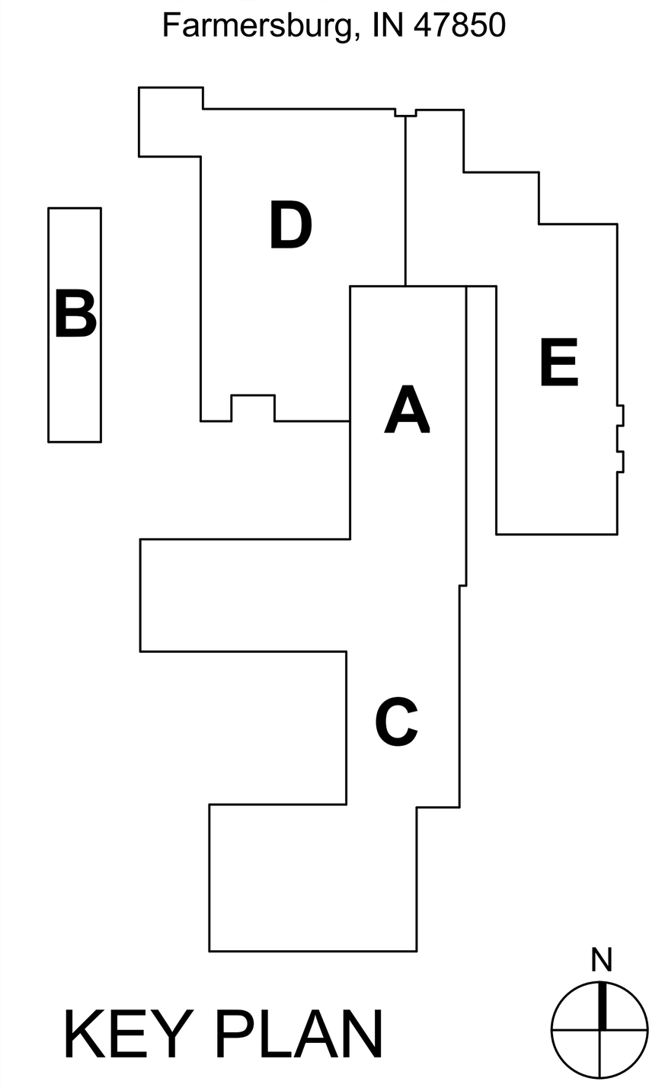
Project No. 2016-100.ITR
Project Date 03.27.2020
Produced SACM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

#	Revision	Date

910 E. Co. Rd. 975 N.
Farmersburg, IN 47850



KEY PLAN

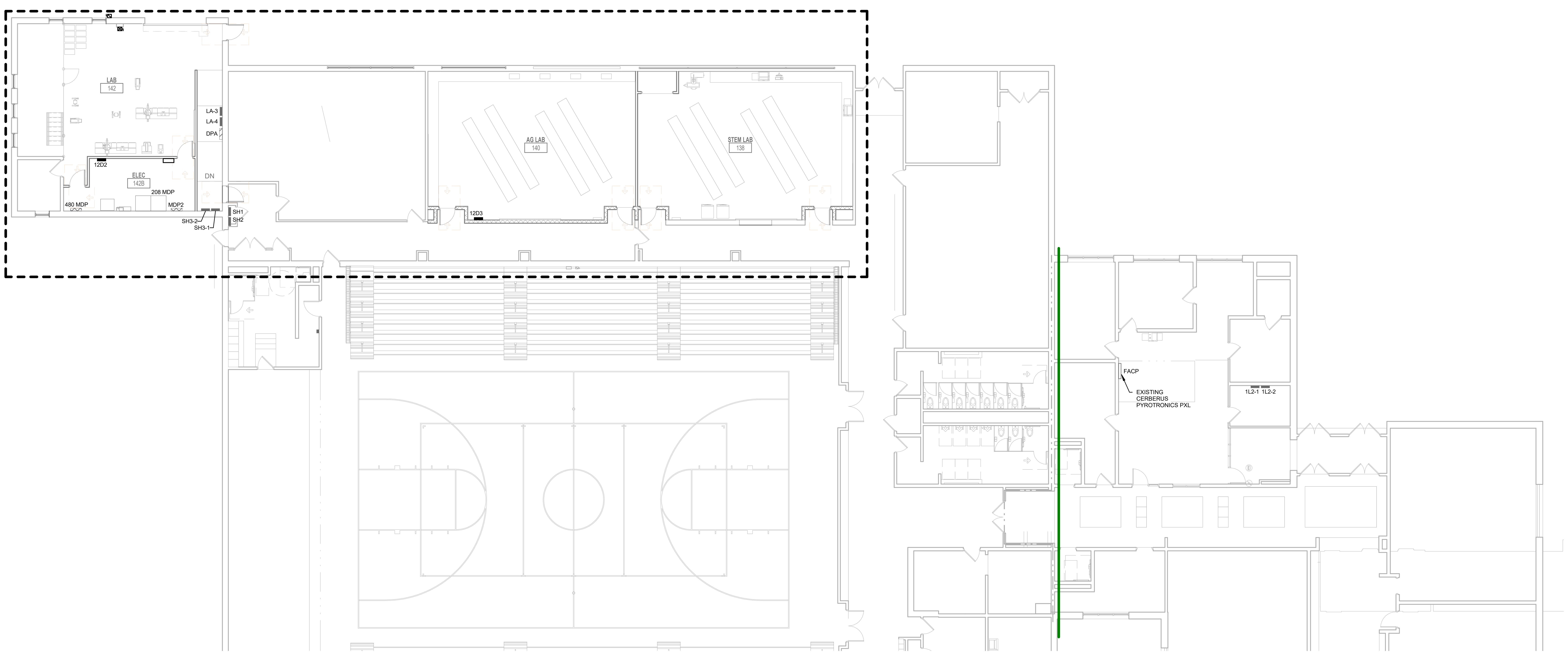
Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

NORTH CENTRAL HIGH SCHOOL

SYMBOLS & ABBREVIATIONS

E-001



1A OVERALL BUILDING PLAN
1" = 10'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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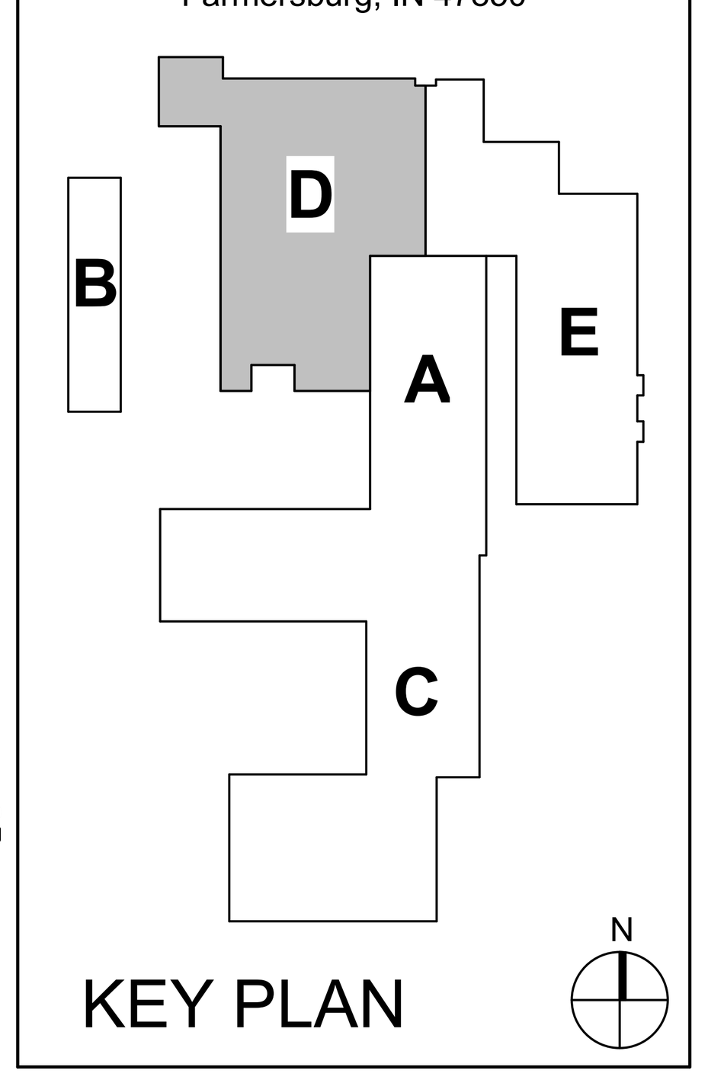


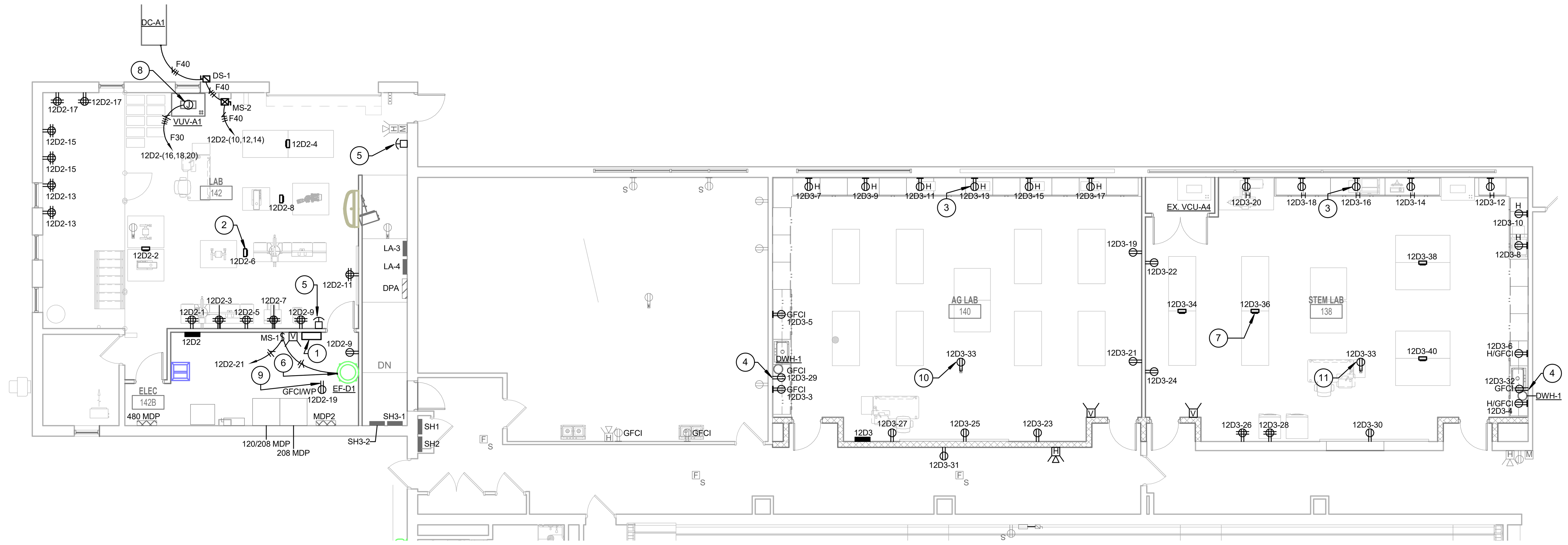
KEY PLAN

Northeast School Corporation

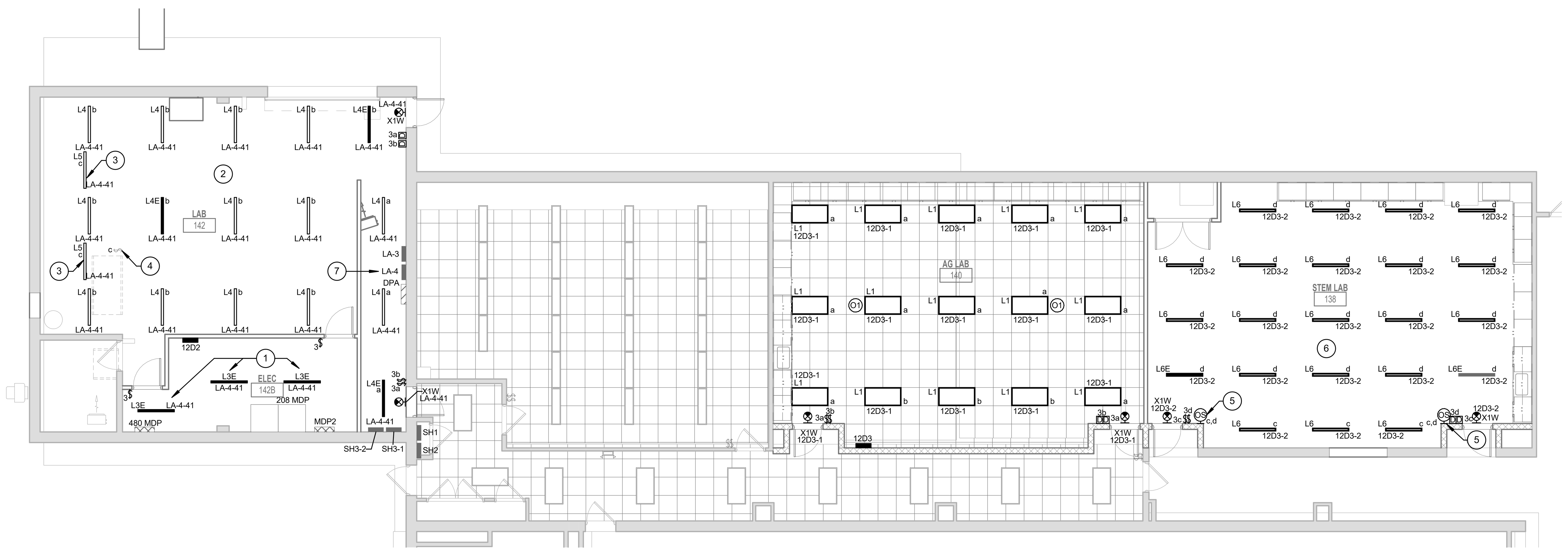
NORTH CENTRAL HIGH SCHOOL

OVERALL BUILDING PLAN

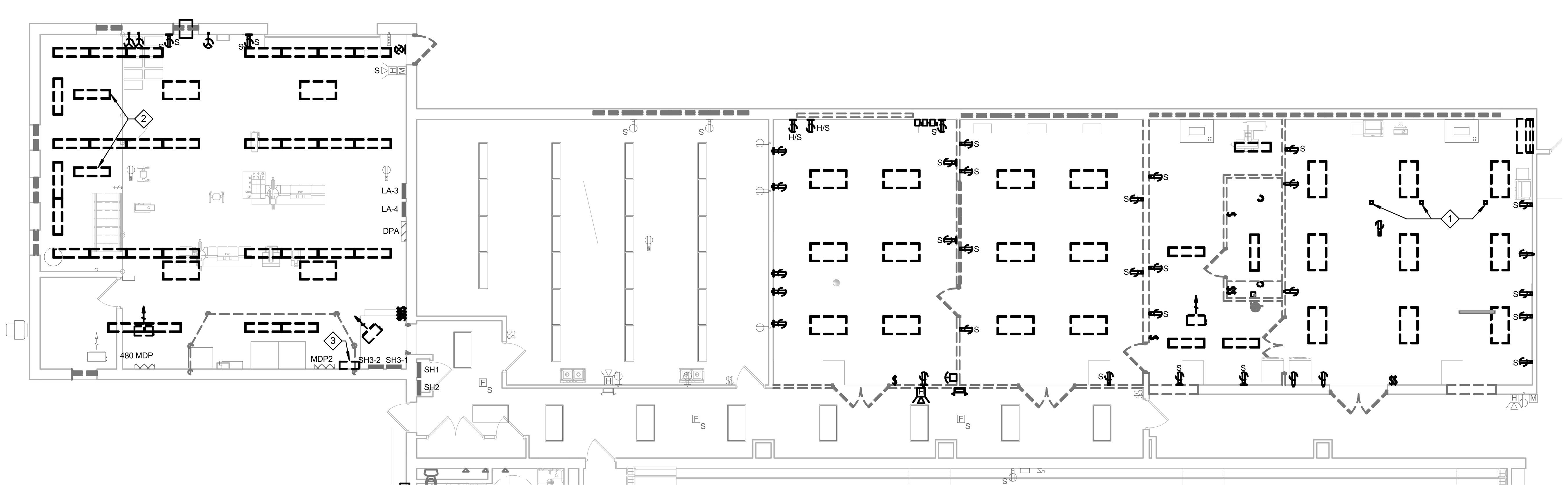
E-101



2D FIRST FLOOR POWER PLAN - UNIT D
1/8" = 1'-0"



2B FIRST FLOOR LIGHTING PLAN - UNIT D
1/8" = 1'-0"



2A FIRST FLOOR DEMOLITION PLAN - UNIT D
1/8" = 1'-0"

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	EXISTING FIRE ALARM SYSTEM: CERBERUS PYROTRONICS PXL.

POWER PLAN NOTES - UNIT A

#	NOTES
1	RELOCATE EXISTING SPARE FUSE CABINET.
2	PROVIDE CORD REEL WITH (2) DUPLEX RECEPTACLES IN THIS ROOM. REFER TO DETAIL 3B/E-601. TYPICAL.
3	HORIZONTALLY MOUNT RECEPTACLES IN BACK SPLASH. TYPICAL OF ALL SHOWN.
4	PROVIDE RECEPTACLE NEXT TO DOMESTIC WATER HEATER UNDER COUNTER.
5	PROVIDE EMERGENCY SHUT-OFF BUTTON TO SHUNT TRIP THE MAIN BREAKER IN NEW PANELBOARD 12D2.
6	CONNECT TO MANUFACTURER PROVIDED DISCONNECT IN EXHAUST FAN ON ROOF.
7	UNDER ALTERNATE BID: PROVIDE CORD REELS WITH (2) DUPLEX RECEPTACLES IN THIS ROOM. REFER TO DETAIL 3B/E-601. TYPICAL.
8	CONNECT TO MANUFACTURER PROVIDED DISCONNECT. VERIFY NUMBER OF WIRES (NEUTRAL) PRIOR TO INSTALLATION.
9	LOCATE WEATHERPROOF/GFCI DUPLEX RECEPTACLE ON ROOF NEXT TO EXHAUST FAN. REFER TO DETAILS FOR MORE INFORMATION.
10	PROVIDE RECEPTACLE FOR PROJECTOR FLUSH IN CEILING/PROJECTOR PAN. COORDINATE FINAL LOCATION WITH T-SERIES DRAWINGS AND DETAILS.
11	PROVIDE RECEPTACLE FOR PROJECTOR. COORDINATE LOCATION WITH T-SERIES DRAWINGS AND DETAILS. SURFACE MOUNT RECEPTACLE TO STRUCTURE ABOVE AND WITHIN REACH OF PROJECTOR CORD.

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES - UNIT A

#	NOTES
1	PROVIDE FIXTURES AT +10'-0" A.F.F. TO BOTTOM OF LENS.
2	SURFACE MOUNT FIXTURES TO DECK. ADJUST LOCATIONS AS REQUIRED FOR EXISTING CONDITIONS.
3	SURFACE MOUNT FIXTURES TO LOWER DECK. ADJUST LOCATIONS AS REQUIRED FOR EXISTING CONDITIONS.
4	SURFACE MOUNT SWITCH IN SAME LOCATION AS DEMOLISHED SWITCH.
5	DUAL TECHNOLOGY WALL MOUNTED SENSOR. PROVIDE WATTSTOPPER DT-200 SERIES OR APPROVED EQUAL.
6	SUSPEND FIXTURES AT +9'-0" A.F.F. TO BOTTOM OF LENS.
7	PROVIDE NEW 20A-1P CIRCUIT BREAKER IN EXISTING PANELBOARD FOR NEW LIGHT FIXTURES. EXISTING PANELBOARD IS A SIEMENS P1C42ML250ATS.

GENERAL DEMOLITION NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
C	CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
D	THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
E	THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
F	ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
G	REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
H	COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
I	PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
J	PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
K	REFER TO A, M, AND P-SERIES DRAWINGS FOR AREAS WITH ABOVE CEILING WORK AND/OR CEILING REMOVAL. TEMPORARILY SUPPORT ALL ELECTRICAL DEVICES, FIXTURES, ETC. AS REQUIRED. RE-INSTALL ELECTRICAL ITEMS FOLLOWING THE COMPLETION OF WORK IN THE NEW OR EXISTING CEILINGS.

DEMOLITION PLAN NOTES

#	NOTES
1	DISCONNECT AND REMOVE POWER POLE.
2	DISCONNECT AND REMOVE LIGHT FIXTURE(S) UNDER PLATFORM.
3	DISCONNECT AND RELOCATE SPARE FUSE CABINET ONTO NEW WALL IN AREA. REFER TO POWER PLANS FOR LOCATION.

SCHMIDT
ASSOCIATES
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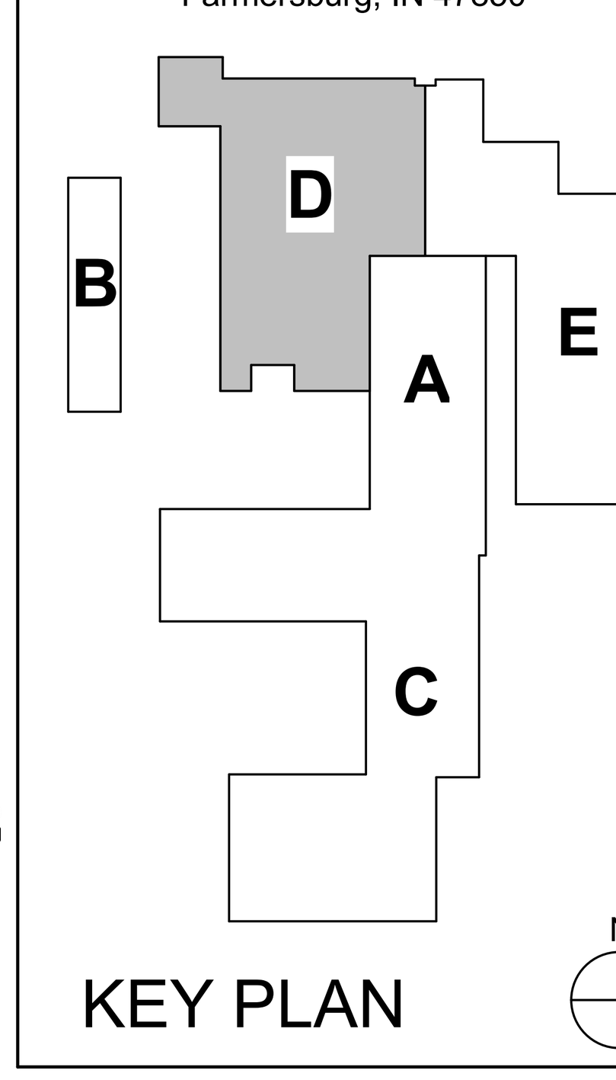


KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

ELECTRICAL PLANS

E-102

GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	REFER TO LIGHT FIXTURE SCHEDULE AND REFLECTED CEILING PLANS FOR MOUNTING REQUIREMENTS, CEILING TYPES, AND FINAL LOCATIONS. PROVIDE APPROPRIATE MOUNTING TRIM REQUIRED FOR CEILING TYPE.
B	PROVIDE FACTORY INSTALLED DISCONNECTS FOR ALL LINEAR FIXTURES.
C	PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS BALLASTS, ETC.)

LIGHTING FIXTURES SCHEDULE

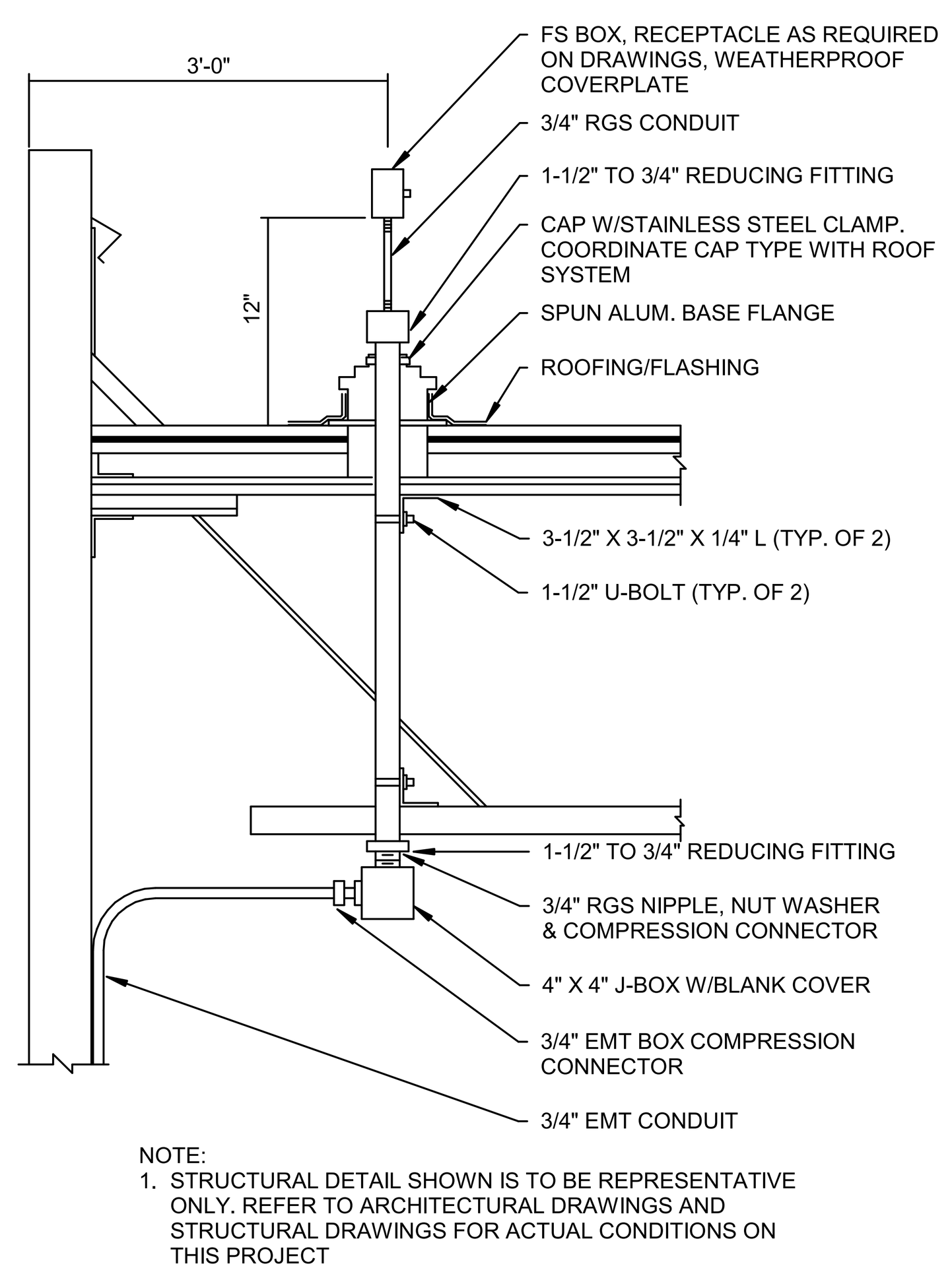
FIXTURE	DESCRIPTION	VOLTAGE	SOURCE TYPE	LUMENS	WATTS	CCT	MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	FIXTURE
L1	2X4 PRISMATIC LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	5,600 LM	42 W	3500 K	RECESSED IN GRID	PATTERN 12 FROST ACRYLIC LENS, 0.125" NOMINAL	DLC	METALUX 24GR COLUMBIA LJT24 LITHONIA 2GTL4	L1
L3E	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	7,100 LM	55 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS		METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L3E
L4	4' LENSED LED STRIP LIGHT. 0-10V DIMMING.	120/277 V	LED	7,100 LM	55 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED LENS		METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L4
L4E	4' LENSED LED STRIP LIGHT. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	7,100 LM	55 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED LENS		METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L4E
L5	4' LENSED LED STRIP LIGHT. 0-10V DIMMING.	120/277 V	LED	3,400 LM	28 W	3500 K	SURFACE MOUNTED	SEMI-FROSTED LENS		METALUX SNLED COLUMBIA MPS LITHONIA ZL1D	L5
L6	4"X4' EXTRUDED ALUMINUM LED PENDANT. 0-10V DIMMING.	120/277 V	LED	3,500 LM	39 W	35000 K	PENDANT	FLUSH SATIN LENS	N/A	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L6
L6E	4"X4' EXTRUDED ALUMINUM LED PENDANT. 0-10V DIMMING. INTEGRAL BATTERY INVERTER.	120/277 V	LED	3,500 LM	39 W	35000 K	PENDANT	FLUSH SATIN LENS	N/A	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L6E
X1W	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUM. HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. SELF POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	DUAL-LITE SE SURE-LITES CX LITHONIA LE	X1W

MOTOR CONTROLLER/STARTER/VFD SCHEDULE - UNIT A

LABEL	CONTROLLER LOCATION ROOM #	ROOM NAME	EQUIPMENT SERVED	EQUIPMENT DATA VOLTAGE	PHASE	HP	FLA	STARTER TYPE	NEMA SIZE	DISCONNECT SWITCH TYPE	FUSE SIZE	NEMA ENCL	REMOTE CAPACITOR	REMARKS
MS-1	142B	ELEC	EF-D1	120 V	1	1/3	7.2 A	-	-	-	-	-	-	HP-RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
MS-2	142	LAB	DC-D1	208 V	3	7.5	25.3 A	FVNR	1	FUSIBLE	40	1	-	

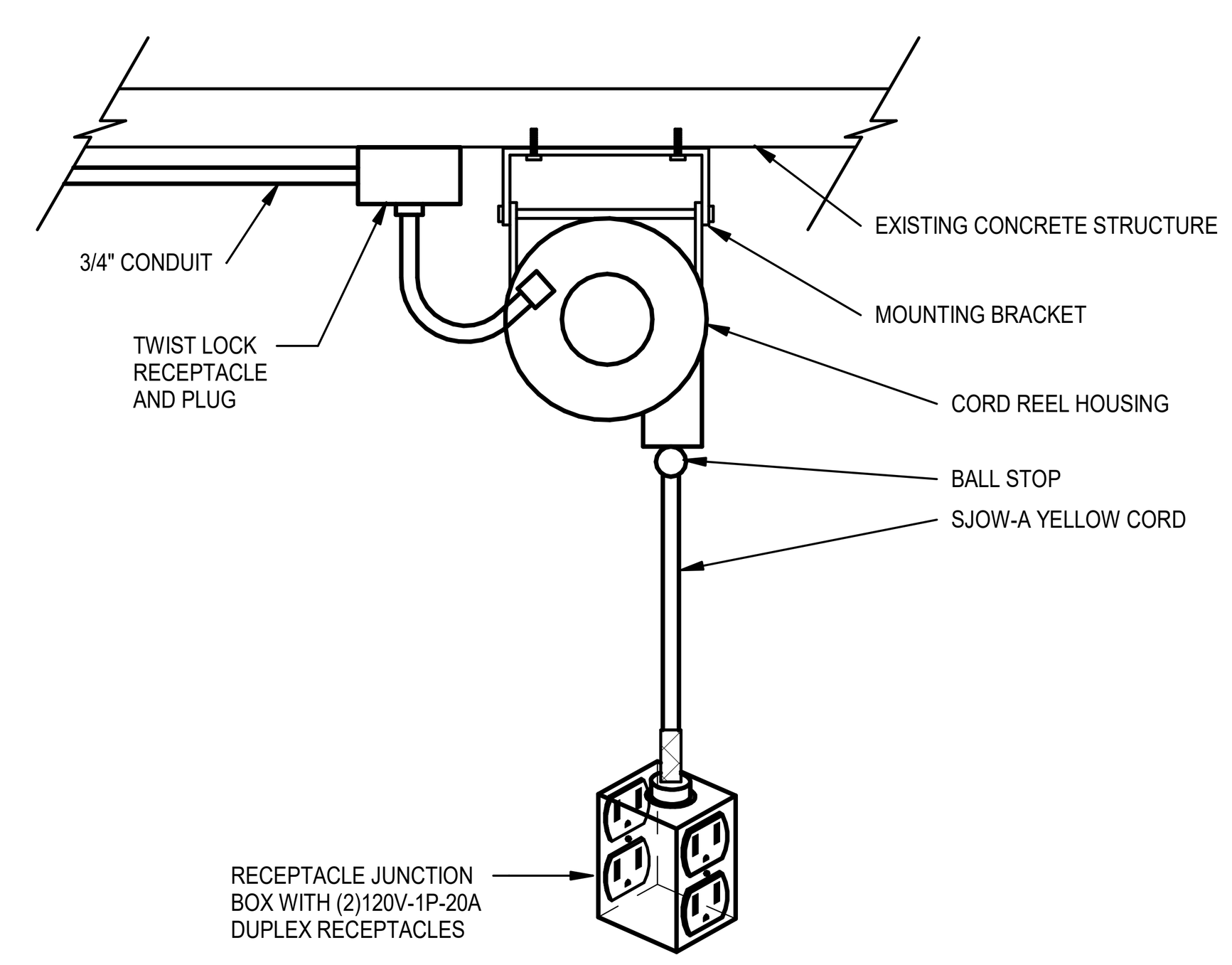
DISCONNECT SWITCH SCHEDULE

LABEL	LOCATION NUMBER	NAME	EQUIPMENT SERVED	VOLTAGE	AMPERAGE	POLES	FUSED	FUSE SIZE	NEMA ENCL	SOLID NEUTRAL
DS-1			DC-D1	208 V	60 A	3	Yes	40 A	3R	No

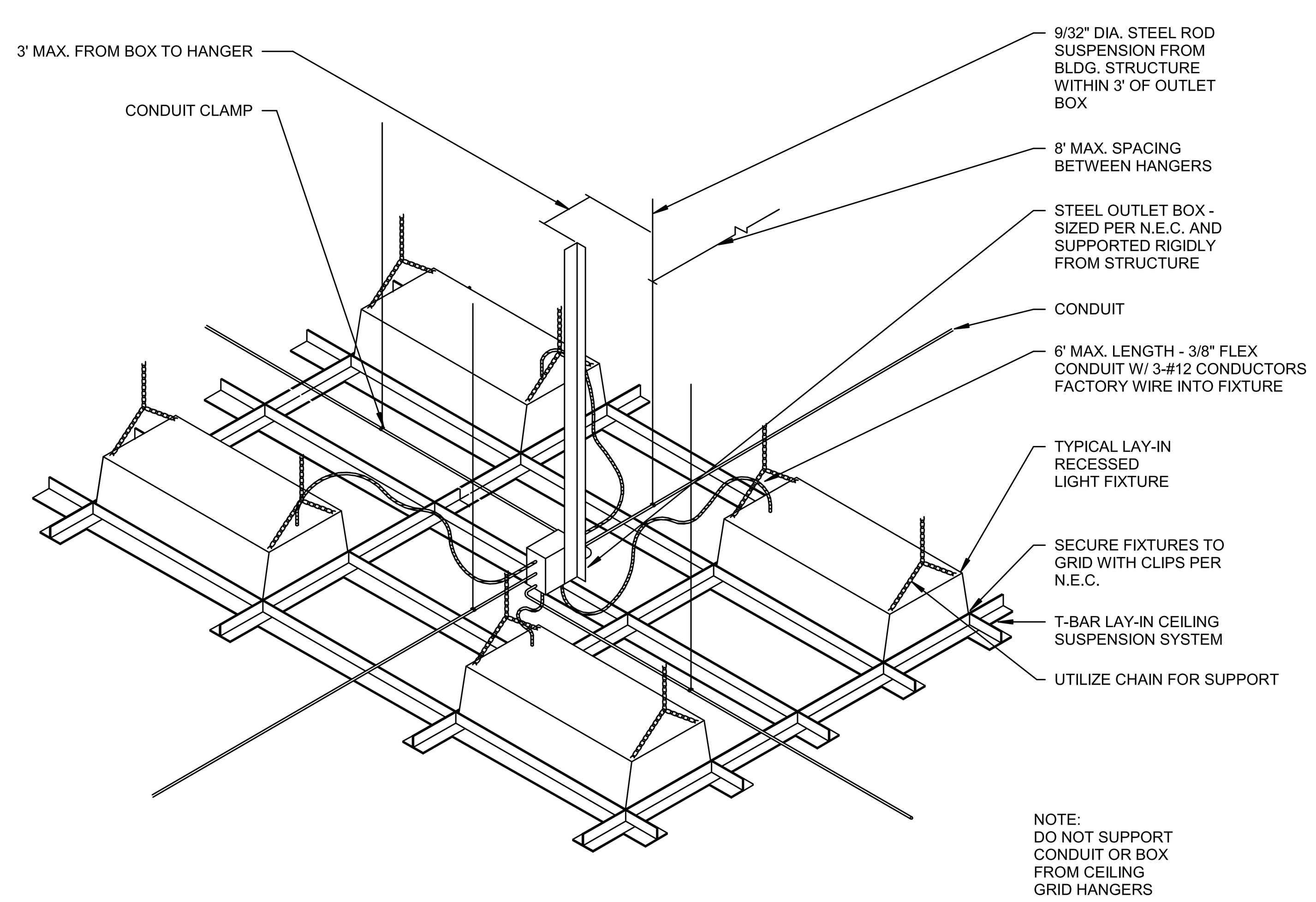


NOTE:
1. STRUCTURAL DETAIL SHOWN IS TO BE REPRESENTATIVE ONLY. REFER TO ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS FOR ACTUAL CONDITIONS ON THIS PROJECT

4C ROOF MOUNTED RECEPTACLE MOUNTING DETAIL
NOT TO SCALE



3B CORD REEL MOUNTING
NOT TO SCALE



NOTE:
DO NOT SUPPORT CONDUIT OR BOX FROM CEILING GRID HANGERS

4A RECESSED LIGHTING INSTALLATION
NOT TO SCALE

CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS) ABBREVIATIONS

G	GFCI PROTECTED
S	SHUNT TRIP
P	HANDLE LOCKING DEVICE
C	CONTACTOR CONTROLLED
X	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	80% RATED MAIN CIRCUIT BREAKER WITH LSI

SWITCHBOARD/PANELBOARD NOTES

#	NOTES
A	MODIFY AIC RATINGS INDICATED ON SCHEDULES, AS REQUIRED, PER SPECIFICATION SECTION 260574.99.
B	VERIFY SIZE AND QUANTITY OF LUGS REQUIRED PER ONE-LINE DIAGRAM.
C	VERIFY CONDUIT ENTRY LOCATION ON EACH PANEL.
D	CONFIRM FINAL ROOM NAMES & NUMBERS WITH OWNER PRIOR TO CREATING PANELBOARD DIRECTORIES.

PANELBOARD ABBREVIATIONS

MCB	MAIN CIRCUIT BREAKER
MFS	MAIN FUSED SWITCH
MLO	MAIN LUGS ONLY
SFL	SUB-FEED LUGS
FTL	FEED THROUGH LUGS
SPD	SURGE PROTECTION DEVICE

PANELBOARD SCHEDULE

DESIGNATION: 12D2 — **LOCATION:** ELEC 142B — **MOUNTING:** SURFACE — **SUPPLY FROM:** 208 MDP
VOLTS: 208Y/120 V — **PHASES:** 3 — **WIRES:** 4
MAINS RATING: 400 A — **MAINS TYPE:** MCB — **MCB RATING:** 400 A — **AIC RATING:** 42,000 A

CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	POLES	A	A	B	B	C	C	POLES	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.
1	142	RECEPT	20 A	1	0.36	0.36					1	20 A	CORD R	142	2
3	142	RECEPT	20 A	1			0.36	0.36			1	20 A	CORD R	142	4
5	142	RECEPT	20 A	1					0.36	0.36	1	20 A	CORD R	142	6
7	142	RECEPT	20 A	1	0.36	0.36					1	20 A	CORD R	142	8
9	142, 142B	RECEPT	20 A	1			0.54	3.04			3	40 A	DUST C.	142	10
11	142	RECEPT	20 A	1					0.36	3.04	--	--	--	--	12
13	142	RECEPT	20 A	1	0.72	3.04					--	--	--	--	14
15	142	RECEPT	20 A	1			0.72	2.86			3	30 A	VUV	RG LAB 142	16
17	142	RECEPT	20 A	1					0.72	2.86	--	--	--	--	18
19	ROOF	RECEPT	20 A	1	0.18	2.86					--	--	--	--	20
21	142B	EXH FAN	20 A	1			0.86	0.00			1	20 A		SPARE	22
23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24
25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26
27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28
29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30
31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32
33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34
35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36
37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38
39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40
41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42
			TOTAL LOAD:		8.23 kVA		8.73 kVA		7.69 kVA						
			TOTAL AMPS:		69 A		73 A		64 A						

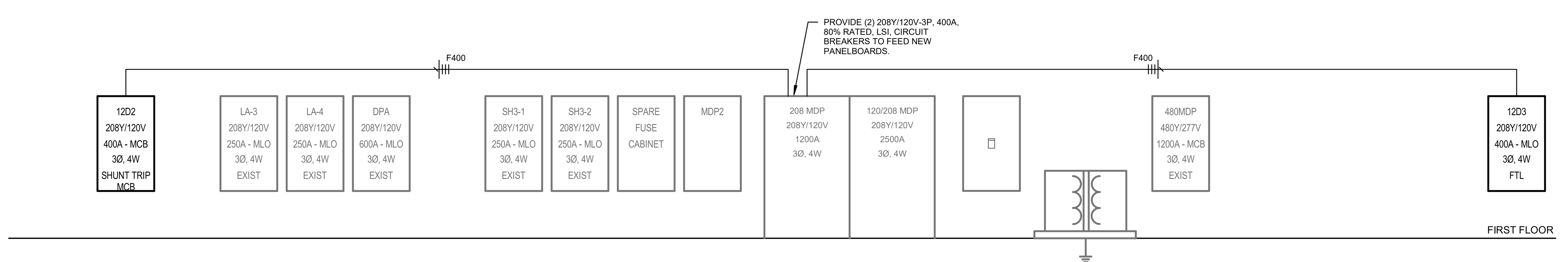
TOTAL CONNECTED LOAD: 24.66 kVA
TOTAL CONNECTED AMPS: 73 A
NOTES: 1. PROVIDE SHUT-TRIP MAIN CIRCUIT BREAKER. TIE SHUNT INTO EMERGENCY PUSH BUTTONS AS INDICATED ON DRAWINGS.

PANELBOARD SCHEDULE

DESIGNATION: 12D3 — **LOCATION:** AG LAB 140 — **MOUNTING:** SURFACE — **SUPPLY FROM:** 208 MDP
VOLTS: 208Y/120 V — **PHASES:** 3 — **WIRES:** 4
MAINS RATING: 400 A — **MAINS TYPE:** MLO — **MCB RATING:** — **AIC RATING:** 42,000 A

CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	POLES	A	A	B	B	C	C	POLES	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.
1	140	LIGHTING	20 A	1	0.64	0.87					1	20 A	LIGHTING	138	2
3	140	RECEPT	20 A	1			0.18	0.18			1	20 A	RECEPT	138	4
5	140	RECEPT	20 A	1					0.18	0.18	1	20 A	RECEPT	138	6
7	140	RECEPT	20 A	1	0.18	0.18					1	20 A	RECEPT	138	8
9	140	RECEPT	20 A	1			0.18	0.18			1	20 A	RECEPT	138	10
11	140	RECEPT	20 A	1					0.18	0.18	1	20 A	RECEPT	138	12
13	140	RECEPT	20 A	1	0.18	0.18					1	20 A	RECEPT	138	14
15	140	RECEPT	20 A	1			0.18	0.18			1	20 A	RECEPT	138	16
17	140	RECEPT	20 A	1					0.18	0.18	1	20 A	RECEPT	138	18
19	140	RECEPT	20 A	1	0.18	0.18					1	20 A	RECEPT	138	20
21	140	RECEPT	20 A	1			0.18	0.18			1	20 A	RECEPT	138	22
23	140	RECEPT	20 A	1					0.18	0.18	1	20 A	RECEPT	138	24
25	140	RECEPT	20 A	1	0.18	0.36					1	20 A	RECEPT	138	26
27	140	RECEPT	20 A	1			0.18	0.36			1	20 A	RECEPT	138	28
29	140	DWH	20 A	1					1.44	0.18	1	20 A	RECEPT	138	30
31	005	RECEPT	20 A	1	0.18	1.44					1	20 A	DWH	138	32
33	RG Room 140, 138		20 A	1			1.00	0.36			1	20 A	CORD R	138	34
35	SPARE		20 A	1					0.00	0.36	1	20 A	CORD R	138	36
37	SPARE		20 A	1	0.00	0.36					1	20 A	CORD R	138	38
39	SPARE		20 A	1			0.00	0.36			1	20 A	CORD R	138	40
41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42
43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44
45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46
47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48
49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50
51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52
53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54
			TOTAL LOAD:		5.11 kVA		3.70 kVA		3.42 kVA						
			TOTAL AMPS:		43 A		31 A		29 A						

TOTAL CONNECTED LOAD: 12.23 kVA
TOTAL CONNECTED AMPS: 43 A
NOTES: 1. PROVIDE FEED THROUGH LUGS.



1A ONE-LINE DIAGRAM - NORTH ELECTRICAL ROOM
NOT TO SCALE

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2016-100.ITR
Project Date 03.27.2020
Produced SACM

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT No. AR10400134 STATE OF INDIANA

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#	Revision	Date

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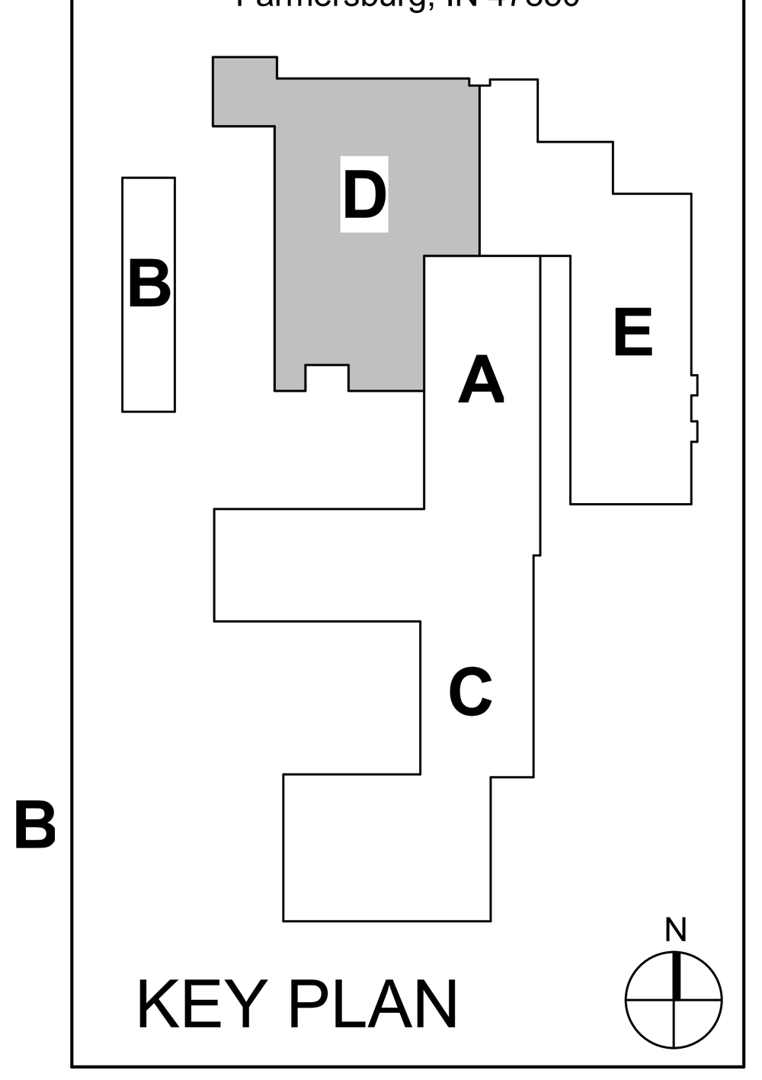
Farmersburg, IN 47850



KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

NORTH CENTRAL HIGH SCHOOL

DETAILS, ONE-LINE DIAGRAM & PANELBOARD SCHEDULES

E-601

TELECOMMUNICATIONS DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

ACCEPTANCE TEST - A TEST OR SET OF TESTS PERFORMED TO DEMONSTRATE SATISFACTORY COMPLETION OF A PREDETERMINED TASK OR GROUP OF TASKS ON WHICH ACCEPTANCE IS DEPENDANT.

ACCESS POINT (AP) - THE CENTRAL OR CONTROL POINT IN A WIRELESS CELL THAT ACTS AS A LINK FOR TRAFFIC TO AND FROM WIRELESS DEVICES IN THE CELL. THE AP ALSO CONNECTS WIRELESS DEVICES TO THE WIRED PORTION OF THE NETWORK.

ACTIVE CIRCUIT - A VOICE/DATA/VIDEO CHANNEL CONNECTED TO A CIRCUIT.

ACTIVE EQUIPMENT - ENERGIZED EQUIPMENT USED FOR RECEIVING OR TRANSMITTING ANALOG OR DIGITAL SIGNALS.

ADMINISTRATION - THE METHODOLOGY DEFINING THE DOCUMENTATION REQUIREMENTS OF A CABLING SYSTEM AND ITS CONTAINMENT, THE LABELING OF FUNCTIONAL ELEMENTS AND THE PROCESS BY WHICH MOVES, ADDS, AND CHANGES ARE RECORDED. (ISO)

ALIEN CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS IN A GIVEN CABLE TO OTHER CIRCUITS IN ANOTHER CABLE.

ATTENUATION - THE DECREASE IN MAGNITUDE OF TRANSMISSION SIGNAL STRENGTH BETWEEN POINTS, EXPRESSED IN DB AS THE RATIO OF OUTPUT TO INPUT SIGNAL LEVEL

ATTENUATION-TO-CROSSTALK RATION (ACR) - THE RATIO OBTAINED BY SUBTRACTING INSERTION LOSS (ATTENUATION [DB]) FROM NEAR-END CROSSTALK (DB). ACR IS NORMALLY STATED AT A GIVEN FREQUENCY. SEE SIGNAL-TO-NOISE RATIO.

BACKBONE - A FACILITY (E.G., PATHWAY, CABLE, OR CONDUCTORS) BETWEEN ANY OF THE FOLLOWING SPACES: TELECOMMUNICATIONS ENCLOSURES, TELECOMMUNICATIONS ROOMS, EQUIPMENT ROOMS, AND ENTRANCE FACILITIES.

BACKBONE BONDING CONDUCTOR - A COPPER CONDUCTOR EXTENDING FROM THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TO THE FARTHEST FLOOR TELECOMMUNICATIONS GROUNDING BUSBAR. (TIA)

BALANCED TWISTED-PAIR CABLE - A MULTI-CONDUCTOR CABLE COMPRISING TWO OR MORE COPPER CONDUCTORS TWISTED IN A MANNER DESIGNED TO CANCEL ELECTRICAL INTERFERENCE.

BANDWIDTH - A MEASURE OF THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL, TYPICALLY EXPRESSED IN HERTZ. IT IS USED TO DENOTE THE POTENTIAL TRANSMISSION CAPACITY OF THE MEDIUM, DEVICE, OR SYSTEM.

BEND RADIUS - 1. MAXIMUM RADIUS THAT A CABLE CAN BE BENT TO AVOID PHYSICAL OR ELECTRICAL DAMAGE OR CAUSE ADVERSE TRANSMISSION PERFORMANCE. 2. RADIUS OF CURVATURE THAT A MEDIA CAN BEND WITHOUT SIGNAL DEGRADATION.

BICSI - AN INTERNATIONAL TELECOMMUNICATIONS ASSOCIATION.

BONDING - THE PERMANENT JOINING OF METALLIC PARTS TO FORM AN ELECTRICALLY CONDUCTIVE PATH THAT WILL ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY CURRENT LIKELY TO BE IMPOSED. (TIA)

BONDING CONDUCTOR (BC) - A CONDUCTOR USED SPECIFICALLY FOR THE PURPOSE OF BONDING.

BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) - A CONDUCTOR THAT INTERCONNECTS THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND TO THE TELECOMMUNICATIONS GROUNDING SYSTEM.

BORING - A METHOD TO DISPLACE EARTH UNDER THE GROUND WITHOUT BREAKING THE GROUND SURFACE (TRENCHING) OR CUTTING GROUND SURFACES (E.G., SIDEWALKS, DRIVEWAYS, PARKING LOTS, AND ROAD SURFACES). NORMALLY, AS DIRT IS DISPLACED OR REMOVED, CONDUIT IS INSERTED.

CABLING SYSTEM - A SPECIFIC SYSTEM OF TELECOMMUNICATIONS CABLES, EQUIPMENT/PATCH CORDS, CONNECTING HARDWARE, AND OTHER COMPONENTS THAT IS SUPPLIED AS A SINGLE ENTITY.

CARD READER - A SECURITY SYSTEM DEVICE THAT READS CODED CARDS.

CATEGORY - A RATING THAT DEFINES THE PERFORMANCE OF CABLING COMPONENTS AND SYSTEMS.

CELL - THE FIXED AREA IN WHICH A WIRELESS DEVICES OPERATES.

COMMUNICATIONS - SEE TELECOMMUNICATIONS.

CROSS-CONNECT - A FACILITY ENABLING THE TERMINATION OF CABLE ELEMENTS AND THEIR INTERCONNECTION OR CROSS-CONNECTION. (TIA)

CROSSTALK - UNWANTED TRANSFER OF SIGNAL FROM ONE OR MORE CIRCUITS TO OTHER CIRCUITS.

CUTOVER - THE PROCESS OF SWITCHING FROM OLD NETWORK COMPONENTS TO NEW NETWORK COMPONENTS.

DAISY-CHAIN TOPOLOGY - DEVICES ARE CONNECTED IN SERIES, ONE AFTER THE OTHER, AND THE TRANSMITTED SIGNALS GO TO THE FIRST DEVICES, THEN THE SECOND, ETC.

DATA - ELECTRONICALLY ENCODED INFORMATION. (TIA)

DATA COMMUNICATION - THE TRANSMISSION AND RECEPTION OF ELECTRONICALLY CODED INFORMATION.

DATA NETWORK - AN INTERCONNECTED SYSTEM OF COMPUTERS, PERIPHERALS, AND SOFTWARE OVER WHICH COMMANDS, FILES, AND MESSAGES ARE SENT AND RECEIVED.

DECIBEL (DB) - A LOGARITHMIC UNIT FOR MEASURING THE RELATIVE POWER OR STRENGTH OF A SIGNAL.

DELAY SKEW - THE DIFFERENCE IN PROPAGATION DELAY BETWEEN ANY TWO PAIRS WITHIN THE SAME CABLE SHEATH. (TIA)

DEMARCATION POINT (DP) - 1. A POINT WHERE THE OPERATIONAL CONTROL OR OWNERSHIP CHANGES. (TIA) 2. THE POINT OF INTERFACE BETWEEN SERVICE PROVIDERS AND CUSTOMER FACILITIES.

DIELECTRIC - 1. THE NONCONDUCTIVE PROPERTIES OF AN INSULATING MATERIAL THAT RESISTS THE PASSAGE OF ELECTRIC CURRENT. THE INSULATION SURROUNDING A COPPER CONDUCTOR IS KNOWN AS A DIELECTRIC. 2. A MATERIAL THAT IS NONMETALLIC AND NONCONDUCTIVE. 3. A NONCONDUCTOR OF DIRECT ELECTRIC CURRENT.

DIRECT-BURIED CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH, IN DIRECT CONTACT WITH THE SOIL. (TIA)

ELECTROMAGNETIC INTERFERENCE (EMI) - RADIATED OR CONDUCTED ELECTROMAGNETIC ENERGY THAT HAS AN UNDESIRABLE EFFECT ON ELECTRONIC EQUIPMENT OR SIGNAL TRANSMISSIONS. (TIA)

EQUAL LEVEL FAR-END CROSSTALK (ELFEXT) - CROSSTALK MEASURED AT THE OPPOSITE END FROM WHICH THE DISTURBING SIGNAL IS TRANSMITTED, NORMALIZED BY THE ATTENUATION CONTRIBUTION OF THE CABLE OR CABLING.

FAR-END CROSSTALK (FEXT) LOSS - A MEASURE OF THE UNWANTED SIGNAL COUPLING FROM A TRANSMITTER AT THE NEAR END INTO ANOTHER PAIR MEASURED AT THE FAR END, AND RELATIVE TO THE TRANSMITTED SIGNAL LEVEL. ALSO CALLED INPUT/OUTPUT FAR END CROSSTALK LOSS. (TIA)

FAULT TOLERANCE - THE ABILITY OF A SYSTEM TO CONTINUE OPERATIONS AFTER THE FAILURE OF ONE OR MORE COMPONENTS.

FIBER OPTICS - A COMMUNICATION SYSTEM THAT USES OPTICAL FIBER AS ITS MEDIUM.

GIGABIT PER SECOND (GB/S) - A TRANSMISSION RATE DENOTING ONE BILLION BITS PER SECOND.

GIGAHERTZ (GHZ) - A UNIT OF FREQUENCY DENOTING ONE BILLION CYCLES PER SECOND (HERTZ).

HERTZ (HZ) - 1. A UNIT OF MEASURE USED TO EXPRESS THE RANGE OF FREQUENCIES ASSOCIATED WITH A GIVEN SIGNAL OR COMMUNICATIONS CHANNEL. THIS RANGE IS ALSO CALLED BANDWIDTH. 2. A UNIT OF FREQUENCY EQUAL TO ONE CYCLE PER SECOND.

HOME RUN - A PATHWAY OR CABLE BETWEEN TWO LOCATIONS WITHOUT A SPLICE OR INTERMEDIATE TERMINATIONS POINTS IN BETWEEN.

HORIZONTAL CABLE - 1. A PERMANENT ELEMENT OF THE HORIZONTAL CABLING THAT CONNECTS THE TELECOMMUNICATIONS OUTLET/CONNECTOR AT THE WORK AREA AND THE FIRST PIECE OF CONNECTING HARDWARE IN THE HORIZONTAL OR MAIN CROSS-CONNECT. 2. FOUR PAIR 24 AWG UNSHIELDED TWISTED PAIR (UTP).

HORIZONTAL CROSS-CONNECT - A GROUP OF CONNECTORS THAT ALLOWS EQUIPMENT AND BACKBONE CABLING TO BE CROSS-CONNECTED.

INNERDUCT - A NONMETALLIC RACEWAY, USUALLY CIRCULAR, PLACED WITHIN A LARGER PATHWAY. (TIA)

INTERMEDIATE CROSS-CONNECT (IC) - THE CONNECTION POINT BETWEEN A BACKBONE CABLE THAT EXTENDS FROM THE MAIN CROSS-CONNECT AND THE BACKBONE CABLE FROM THE HORIZONTAL CROSS-CONNECT.

LATENCY - THE TIME IT TAKES FOR A SIGNAL TO PASS THROUGH A DEVICE OR NETWORK.

LOW-VOLTAGE CABLING/CABLING SYSTEM - TELECOMMUNICATIONS SIGNALING (INCLUDES BUILDING AUTOMATION SIGNALING) VOLTAGE LEVELS ARE TYPICALLY POWER-LIMITED WHEN COMPARED TO ELECTRICAL POWER CIRCUITS THAT CAN VARY FROM 100 VOLTS ALTERNATING CURRENT (AC) TO 240 VOLTS AC IN COMMERCIAL BUILDINGS. CIRCUITS TYPICALLY USE AN INHERENTLY LIMITED POWER SOURCE WITHOUT OVER-CURRENT PROTECTION OR A NONINHERENTLY LIMITED POWER SOURCE WHERE OVERCURRENT PROTECTION IS REQUIRED. SINCE TELECOMMUNICATIONS CABLING SYSTEMS ARE NOT USED TO DISTRIBUTE ELECTRICAL POWER, THE SIGNALING THAT OCCURS ON THESE COPPER-BASED SYSTEMS IS GENERALLY DESCRIBED AS LOW VOLTAGE.

MAIN CROSS-CONNECT (MC) - THE CROSS-CONNECT NORMALLY LOCATED IN THE (MAIN) TELECOMMUNICATIONS EQUIPMENT ROOM (ER) FOR CROSS-CONNECTION AND INTERCONNECTION OF ENTRANCE CABLES, FIRST-LEVEL BACKBONE CABLES, AND EQUIPMENT CABLES.

NEAR-END CROSSTALK (NEXT) LOSS - 1. THE UNWANTED SIGNAL COUPLING BETWEEN PAIRS. IT IS MEASURED AT THE END OF A CABLE NEAREST THE POINT OF TRANSMISSION. CONTRAST WITH FAR-END CROSSTALK. 2. THE SIGNAL TRANSFER BETWEEN CIRCUITS AT THE SAME (NEAR) END OF THE CABLE.

NETWORK - A GROUP OF THREE OR MORE NODES THAT CAN COMMUNICATE WITH EACH OTHER, EITHER DIRECTLY THROUGH CABLING OR INDIRECTLY THROUGH REPEATERS TO SEPARATE CABLING.

OUTSIDE PLANT (OSP) - TELECOMMUNICATIONS INFRASTRUCTURE DESIGNED FOR INSTALLATION EXTERIOR TO BUILDINGS.

PAIR - TWO INSULATED WIRES TWISTED AROUND EACH OTHER.

PAIR TWIST - THE UNIFORM TWIST OF AN INSULATED COPPER PAIR THAT HELPS TO REDUCE THE NEGATIVE EFFECTS OF CAPACITANCE IMBALANCE AND ELECTROMAGNETIC INDUCTION.

PATCH CORD - A LENGTH OF CABLE WITH A PLUG ON ONE OR BOTH ENDS.

PATCH PANEL - A CONNECTING HARDWARE SYSTEM THAT FACILITATES CABLE TERMINATION AND CABLING ADMINISTRATION USING PATCH CORDS.

PATHWAY - 1. A SEQUENCE OF CONNECTIONS THAT PROVIDES THE CONNECTIVITY BETWEEN DEVICES ON A NETWORK OR BETWEEN NETWORKS ON AN INTERNETWORK. 2. THE VERTICAL AND HORIZONTAL ROUTE OF THE TELECOMMUNICATIONS CABLE. 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA) 3. A FACILITY FOR THE PLACEMENT OF TELECOMMUNICATIONS CABLE. (TIA)

POWER SUM - USED TO SPECIFY A COMBINATION CROSSTALK FROM MULTIPLE SOURCES.

POWER SUM ATTENUATION-TO-CROSSTALK RATIO - A RATIO IN DB, DETERMINED BY SUBTRACTING THE INSERTION LOSS FROM TH EPOWER SUM NEAR-END CROSSTALK LOSS. (TIA)

POWER SUM EQUAL LEVEL FAR-END CROSSTALK (PSELFEXT) - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE FAR-END, AND NORMALIZED TO THE RECEIVED SIGNAL LEVEL. (TIA)

POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS - A COMPUTATION OF THE UNWANTED SIGNAL COUPLING FROM MULTIPLE TRANSMITTERS AT THE NEAR-END INTO A PAIR MEASURED AT THE NEAR-END. (TIA)

PULL TENSION - THE PULLING FORCE THAT CAN BE APPLIED TO A CABLE. (TIA)

PUNCH DOWN -THE PROCESS OF TERMINATING COPPER CABLE CONDUCTORS ON INSULATION DISPLACEMENT CONNECTION TERMINALS BY USE OF A HANDHELD TOOL.

QUEUING - A TECHNIQUE THAT REDUCES TRANSMISSION DELAYS BY CLASSIFYING AND SORTING DATA PRIOR TO PROCESSING BY THE TRANSMITTING DEVICE.

RACEWAY - ANY ENCLOSED CHANNEL DESIGNED FOR HOLDING WIRES OR CABLES. (TIA)

RADIO FREQUENCY INTERFERENCE - ELECTROMAGNETIC INTERFERENCE WITHIN THE FREQUENCY BAND FOR RADIO TRANSMISSION.

RETURN LOSS - A RATIO, EXPRESSED IN DB, OF THE POWER OF THE OUTGOING SIGNAL TO THE POWER OF THE REFLECTED SIGNAL. (TIA)

REVERSED PAIR - A CONDITION IN WHICH THE CONDUCTORS IN A PAIR ARE TERMINATED IN THE WRONG SEQUENCE.

RIBBON CABLE - AN ASSEMBLY OF CONDUCTORS LAID SIDE BY SIDE IN A GEOMETRIC PLANE AND FASTENED TOGETHER.

DEFINITIONS (CONTINUED)

SCALABILITY - THE ABILITY OF A NETWORK TO GROW WITHOUT DEGRADATION OF QUALITY.

SERVICE LOOP - A SURPLUS OF CABLE AT THE POINT OF TERMINATION TO FACILITATE POTENTIAL FUTURE CHANGES.

SHIELDED ENCLOSURE CABINET - A METAL ELECTRONICS CABINET CONSTRUCTED WITH WELDED SEAMS AND CONDUCTIVE GASKETS ON THE DOORS THAT SERVE AS AN EFFECTIVE SHIELD AGAINST ELECTROMAGNETIC RADIATION.

SPLIT PAIR - TRANSPOSITION OF TWO CONDUCTORS OF SEPARATE PAIRS.

STAR TOPOLOGY - A NETWORK TOPOLOGY IN WHICH SERVICES ARE DISTRIBUTED FROM A CENTRAL POINT.

STRUCTURED CABLING SYSTEM - THE COMPLETE COLLECTIVE CONFIGURATION OF TELECOMMUNICATIONS CABLING AND ASSOCIATED HARDWARE AT A GIVEN LOCATION.

SWEEP - BEND THAT HAS A GENTLE ARC RATHER THAN A SHARP BEND.

TELECOMMUNICATIONS - ANY TRANSMISSION, EMISSION, AND RECEPTION OF SIGNS, SIGNALS, WRITINGS, IMAGES, AND SOUNDS, THAT IS, INFORMATION OF ANY NATURE BY CABLE, RADIO, OPTICAL, OR OTHER ELECTROMAGNETIC SYSTEMS. (TIA)

TELECOMMUNICATIONS BONDING BACKBONE - A CONDUCTOR THAT INTERCONNECTS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) TO THE TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). (TIA)

TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR - A CONDUCTOR INSTALLED FROM EACH PIECE OF EQUIPMENT TO THE TELECOMMUNICATIONS GROUNDING BUSBAR OR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.

TELECOMMUNICATIONS CABINET - AN ENCLOSURE USED FOR TERMINATING TELECOMMUNICATIONS CABLES, WIRING, AND CONNECTION DEVICES WITH A HINGED COVER, USUALLY FLUSH-MOUNTED IN THE WALL. (TIA)

TELECOMMUNICATIONS ENCLOSURE - A CASE OR HOUSING FOR TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS ENTRANCE FACILITY - AN ENTRANCE TO A BUILDING FOR BOTH PUBLIC AND PRIVATE NETWORK SERVICE CABLES (INCLUDING WIRELESS) INCLUDING THE ENTRANCE POINT AT THE BUILDING WALL AND CONTINUING TO THE ENTRANCE ROOM OR SPACE. (TIA) 2. A FACILITY THAT PROVIDES ALL NECESSARY MECHANICAL AND ELECTRICAL SERVICES, THAT COMPLIES WITH ALL RELEVANT REGULATIONS, FOR THE ENTRY OF TELECOMMUNICATIONS CABLES INTO A BUILDING. (ISO)

TELECOMMUNICATIONS EQUIPMENT ROOM - AN ENVIRONMENTALLY CONTROLLED CENTRALIZED SPACE FOR TELECOMMUNICATIONS EQUIPMENT THAT USUALLY HOUSES A MAIN OR INTERMEDIATE CROSS-CONNECT. (TIA)

TELECOMMUNICATIONS GROUNDING BUSBAR - A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND, AND LOCATED IN THE TELECOMMUNICATIONS ROOM OR EQUIPMENT ROOM.

TELECOMMUNICATIONS INFRASTRUCTURE A COLLECTION OF THOSE TELECOMMUNICATIONS COMPONENTS, EXCLUDING EQUIPMENT, THAT TOGETHER PROVIDE THE BASIC SUPPORT FOR THE DISTRIBUTION OF ALL INFORMATION WITHIN A BUILDING OR CAMPUS.

TELECOMMUNICATIONS MAINTENANCE HOLE - A VAULT LOCATED IN THE GROUND OR EARTH AS PART OF A UNDERGROUND DUCT SYSTEM AND USED TO FACILITY PLACING, CONNECTORIZATION, AND MAINTENANCE OF CABLES AS WELL AS THE PLACING OF ASSOCIATED EQUIPMENT, IN WHICH IT IS EXPECTED THAT A PERSON WILL ENTER TO PERFORM WORK. (TIA)

TELECOMMUNICATIONS MEDIA - WIRE, CABLE, OR CONDUCTORS USED FOR TELECOMMUNICATIONS. (TIA)

TELECOMMUNICATIONS OUTLET/CONNECTOR - A CONNECTING DEVICE IN THE WORK AREA ON WHICH HORIZONTAL CABLE OR OUTLET CABLE TERMINATES.

TELECOMMUNICATION ROOM - AN ENCLOSED ARCHITECTURAL SPACE FOR HOUSING TELECOMMUNICATIONS EQUIPMENT, CABLE TERMINATIONS, AND CROSS-CONNECT CABLING. (TIA)

TELECOMMUNICATIONS SPACE - AN AREA USED FOR HOUSING THE INSTALLATION AND TERMINATION OF TELECOMMUNICATIONS EQUIPMENT AND CABLE (E.G., COMMON EQUIPMENT ROOMS, EQUIPMENT ROOMS, COMMON TELECOMMUNICATIONS ROOMS, TELECOMMUNICATIONS ROOMS, WORK AREAS, MAINTENANCE HOLES/HANDHOLES). (TIA)

TRANSPOSED PAIRS - WHEN TWO PAIRS OF CONDUCTORS ARE TERMINATED IN EACH OTHER'S LOCATION.

UNDERGROUND - REFERS TO CONDUIT AND MAINTENANCE HOLES SYSTEMS INSTALLED BELOW THE SURFACE OF THE GROUND.

UNDERGROUND CABLE - A TELECOMMUNICATIONS CABLE DESIGNED TO BE INSTALLED UNDER THE SURFACE OF THE EARTH IN A TROUGH OR DUCT THAT ISOLATES THE CABLE FROM DIRECT CONTACT WITH THE SOIL. (TIA)

UTILITY COLUMN - AN ENCLOSED PATHWAY EXTENDING FROM THE CEILING TO FURNITURE OR TO THE FLOOR THAT FORMS A PATHWAY FOR ELECTRICAL WIRING, TELECOMMUNICATIONS CABLE, OR BOTH. (TIA)

WORK AREA (WORK STATION) - A BUILDING SPACE WHERE THE OCCUPANTS INTERACT WITH TELECOMMUNICATIONS TERMINAL EQUIPMENT. (TIA)

WORK AREA CABLE (CORD) - A CABLE CONNECTING THE TELECOMMUNICATIONS OUTLET/CONNECTOR TO THE TERMINAL EQUIPMENT.

WORK AREA OUTLET - A CONNECTING DEVICE FOR TERMINATION OF HORIZONTAL MEDIA.

ABBREVIATIONS

8P8C - EIGHT PIN, EIGHT CONNECTOR UTP CABLE TERMINATION
ACR - ATTENUATION-TO-CROSSTALK RATIO
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
AWG - AMERICAN WIRE GAUGE
BAS - BUILDING AUTOMATION SYSTEM
BC - BONDING CONDUCTOR
BCT - BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BICSI - BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
CO-OSP - CUSTOMER-OWNED OUTSIDE PLANT
DB - DECIBEL
DEMARC - DEMARCATION POINT
DPS - DOOR POSITION SWITCH
EAC - ELECTRONIC ACCESS CONTROL
EF - ENTRANCE FACILITY
EIA - ELECTRONIC INDUSTRIES ALLIANCE
EMI - ELECTROMAGNETIC INTERFERENCE
ER - TELECOMMUNICATIONS EQUIPMENT ROOM
FCC - FEDERAL COMMUNICATIONS COMMISSION
GB - GIGABIT
GHZ - GIGAHERTZ
HC - HORIZONTAL CROSS-CONNECT
HZ - HERTZ
IBC - INTERCONNECTING BONDING CONDUCTOR
IC - INTERMEDIATE CROSS-CONNECT
IDC - INSULATION DISPLACEMENT CONNECTION (OR)
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
KB - KILOBIT
KB - KILOBYTE
KHZ - KILOHERTZ
KM - KILOMETER
LEC - LOCAL EXCHANGE CARRIER
LAN - LOCAL AREA NETWORK
LASER - LIGHT AMPLIFICATION BY STIMULATED EMISSION OF RADIATION
LED - LIGHT-EMITTING DIODE
MB - MEGABIT
MC - MAIN CROSS-CONNECT
MH - TELECOMMUNICATIONS MAINTENANCE HOLE
MHZ - MEGAHERTZ
MUTO - MULTI-USER TELECOMMUNICATIONS OUTLET
MUTOA - MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NOS - NETWORK OPERATING SYSTEM
NEC - NATIONAL ELECTRIC CODE
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
NTS - NETWORK TRANSPORT SYSTEMS
OS - OPERATING SYSTEM
PSACR - POWER SUM ATTENUATION TO CROSSTALK RATIO
PSELFEXT - POWER SUM EQUAL LEVEL FAR-END CROSSTALK
QOS - QUALITY-OF-SERVICE
RCDD - REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RFI - RADIO FREQUENCY INTERFERENCE
RFID - RADIO FREQUENCY IDENTIFICATION
RGB - RED, GREEN, BLUE
SONET - SYNCHRONOUS OPTICAL NETWORK
SPOOL - SIMULTANEOUS PERIPHERAL OPERATION ONLINE
TBB - TELECOMMUNICATIONS BONDING BACKBONE
TDMM - TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB - TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR - TELECOMMUNICATIONS ROOM
UTP - UNSHIELDED TWISTED PAIR
VCSEL - VERTICAL CAVITY SURFACE EMITTING LASER
VGA - VIDEO GRAPHICS ARRAY
VOD - VIDEO-ON-DEMAND
VOIP - VOICE OVER INTERNET PROTOCOL
WAP - WIRELESS ACCESS POINT
WLAN - WIRELESS LOCAL AREA NETWORK
X - CROSS-CONNECT

TELECOMMUNICATIONS SYS.	SCOPE OF WORK	OUTLET INFORMATION	MOUNTING HEIGHT	NOTES
◀1	TELECOMMUNICATIONS OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	PROVIDE SINGLE REDUCER
◀1	TELECOMMUNICATIONS COUNTERTOP OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(1) 1" CONDUIT, (1) 2-GANG BOX	2" ABV. BACKSPLASH TO BOTTOM	PROVIDE SINGLE REDUCER ALIGN WITH POWER RECEPTACLE
◀2/V	TELECOMMUNICATIONS AUDIO / VIDEO OUTLET	ROUGH-IN CABLING 8P8C CONNECTOR(S)	(2) 1-1/4" CONDUITS, (1) 2-GANG BOX	+18" A.F.F. WALL MTD.	- -
(AP)	WIRELESS ACCESS POINT OUTLET (CEILING MOUNTED)	CABLING (UTP)	- -	CEILING MOUNTED SEE T-SERIES DRAWINGS FOR LOCATIONS	- -
(AP)	WIRELESS ACCESS POINT OUTLET (CEILING MOUNTED)	ROUGH-IN, CABLING (UTP)	(1) 1" CONDUIT, (1) SINGLE-GANG BOX	AS NOTED	- -

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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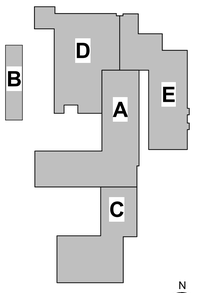
SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO.
AR10400134
STATE OF
INDIANA
ARCHITECT

#	Revision	Date

910 E. Co. Rd. 975 N.
Farmersburg, IN 47850



KEY PLAN

Northeast School Corporation

NORTH CENTRAL HIGH SCHOOL

SYMBOLS & ABBREVIATIONS

T-000

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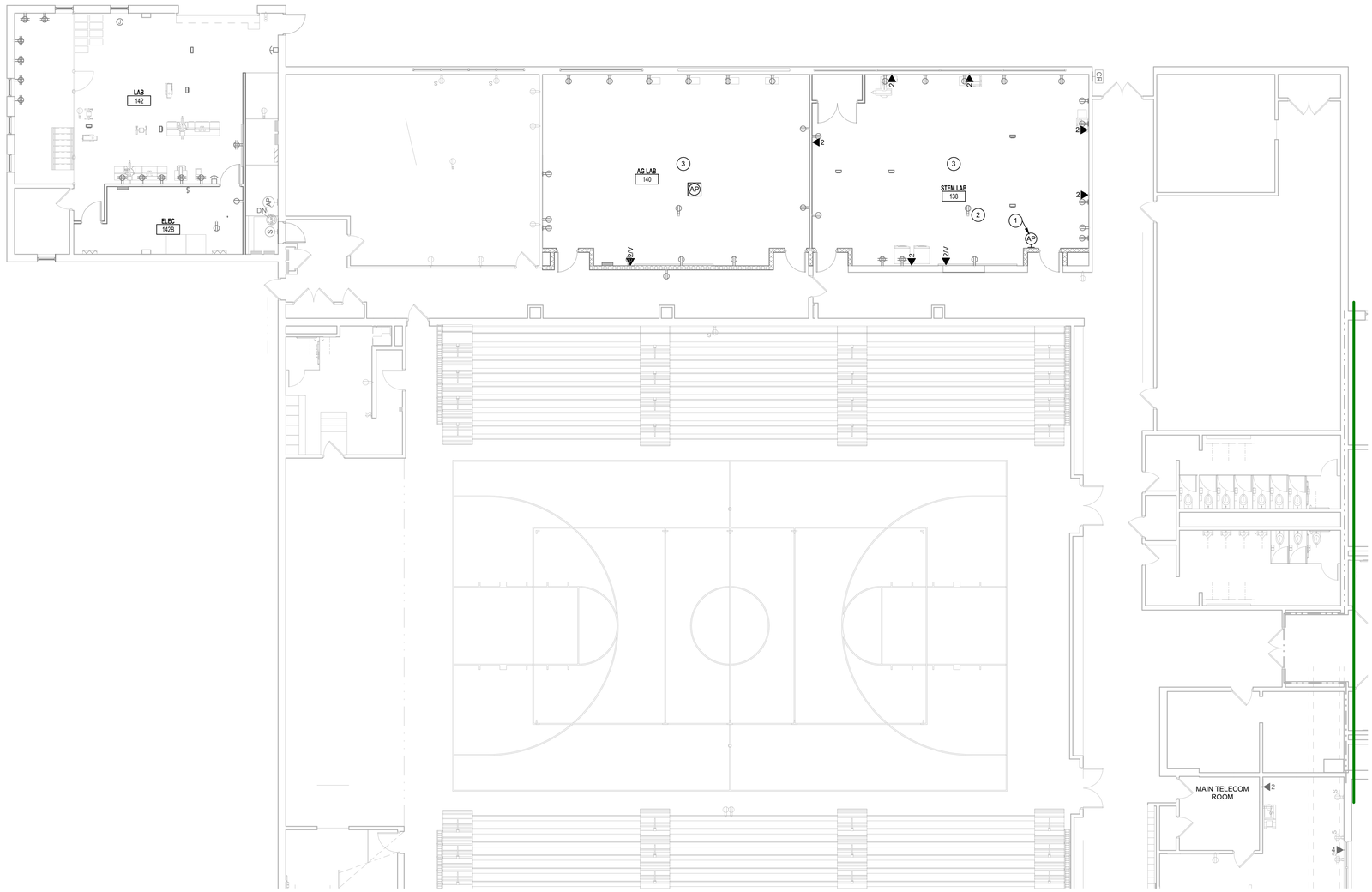
GENERAL TELECOMMUNICATIONS NOTES	
#	NOTES
A	REFER TO SHEET T-001 FOR ADDITIONAL INFORMATION.

TELECOMMUNICATIONS PLAN NOTES - UNIT A	
#	NOTES
1	PROVIDE ROUGH-IN FOR WIRELESS ACCESS POINT AT 8' - 4" A.F.F.
2	PROVIDE UNISTRUT AS REQUIRED AND CHIEF UNISTRUT ADAPTER MODEL NUMBER CMA372, OR APPROVED EQUAL. COORDINATE WITH OWNER THE DISTANCE FROM THE FRONT WALL.
3	REPLACE EXISTING CEILING MOUNTED INTERCOM SPEAKER WITH AN ATLASIED MODEL NUMBER SBMS SURFACE MOUNT SPEAKER, OR APPROVED EQUAL.



1 **FIRST FLOOR TELECOMMUNICATIONS PLAN - UNIT D NEW BID**
1/8" = 1'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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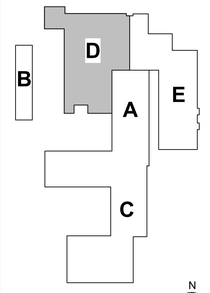
910 E. Co. Rd. 975 N.
Farmersburg, IN 47850



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FIRST FLOOR TELECOMMUNICATIONS PLAN

TF101

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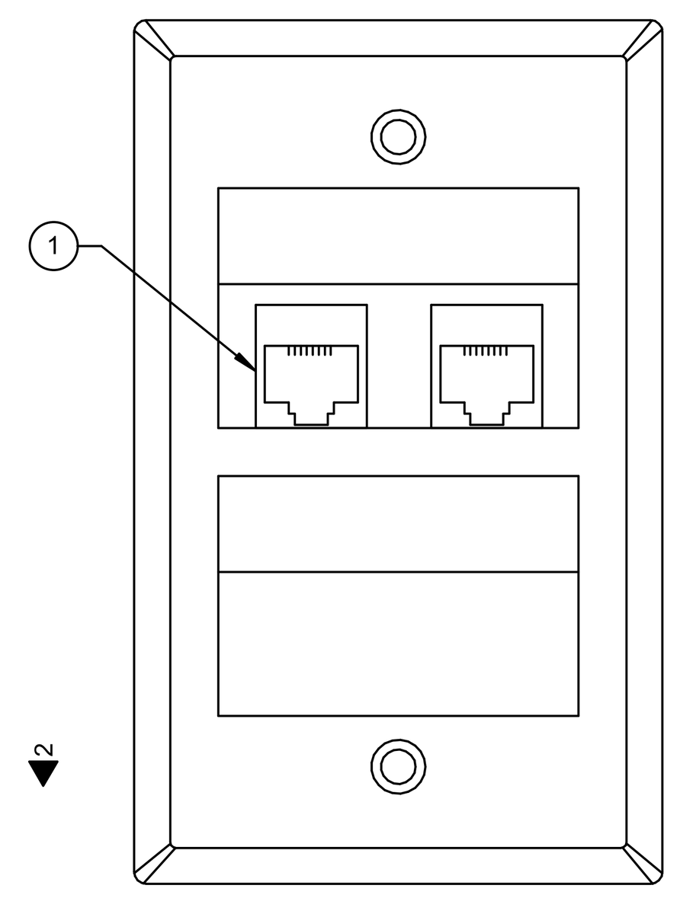
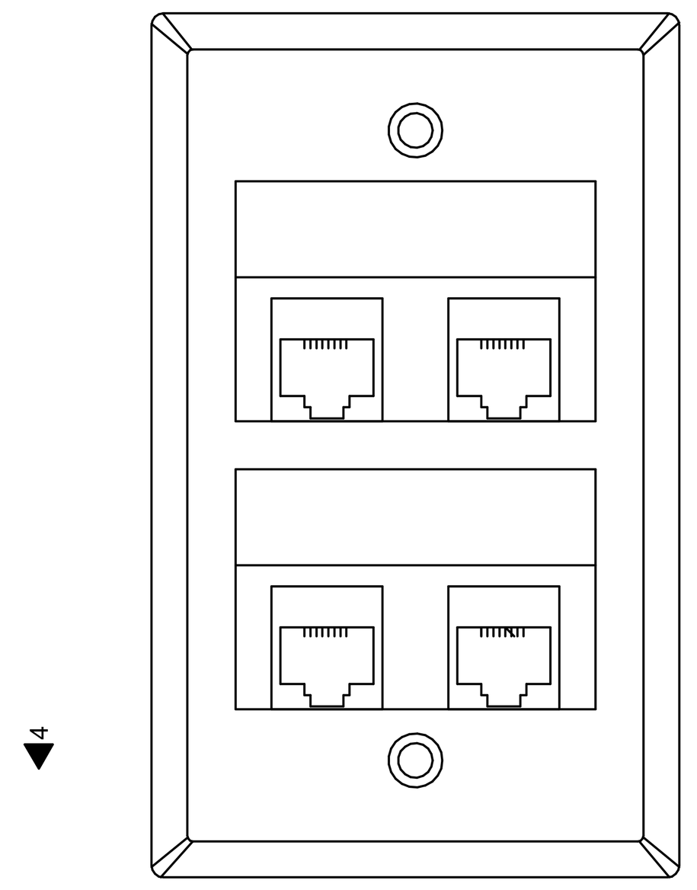
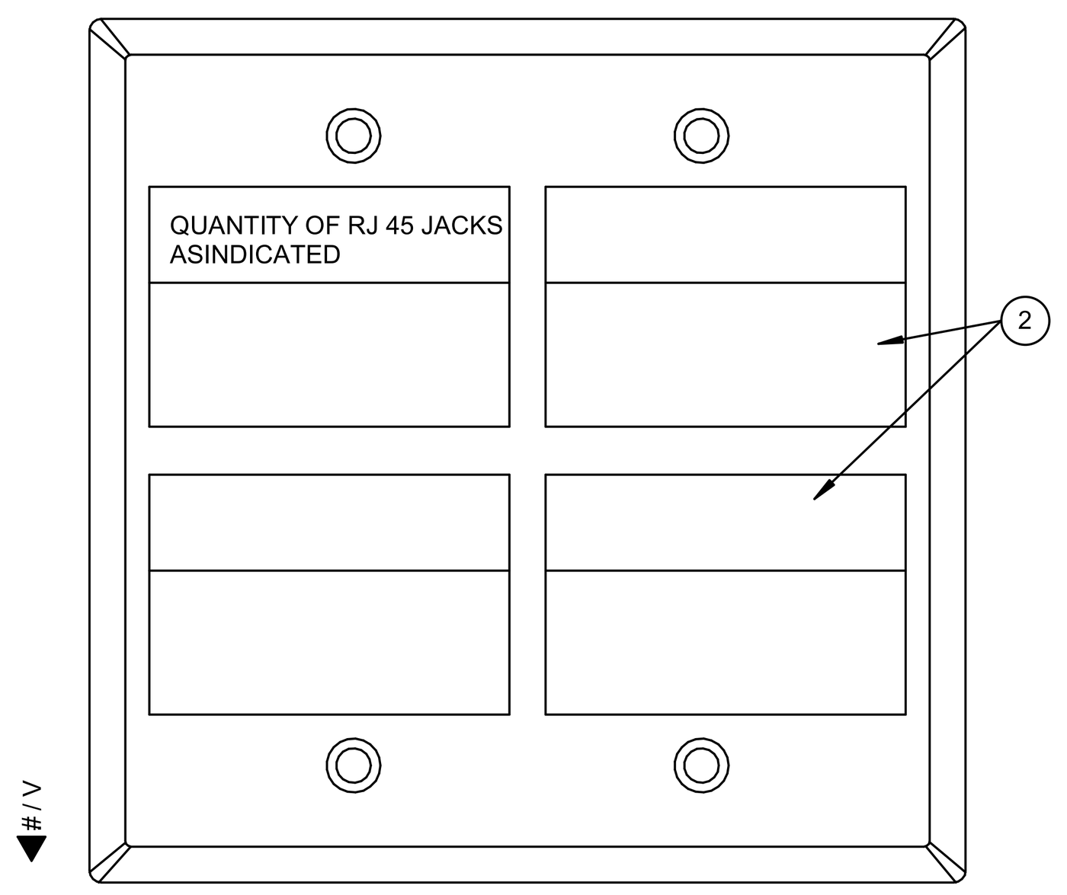


PROVIDE (2) HORIZONTAL UTP CABLES



PROVIDE (4) HORIZONTAL UTP CABLES



PROVIDE QUANTITY OF HORIZONTAL UTP CABLES AS INDICATED

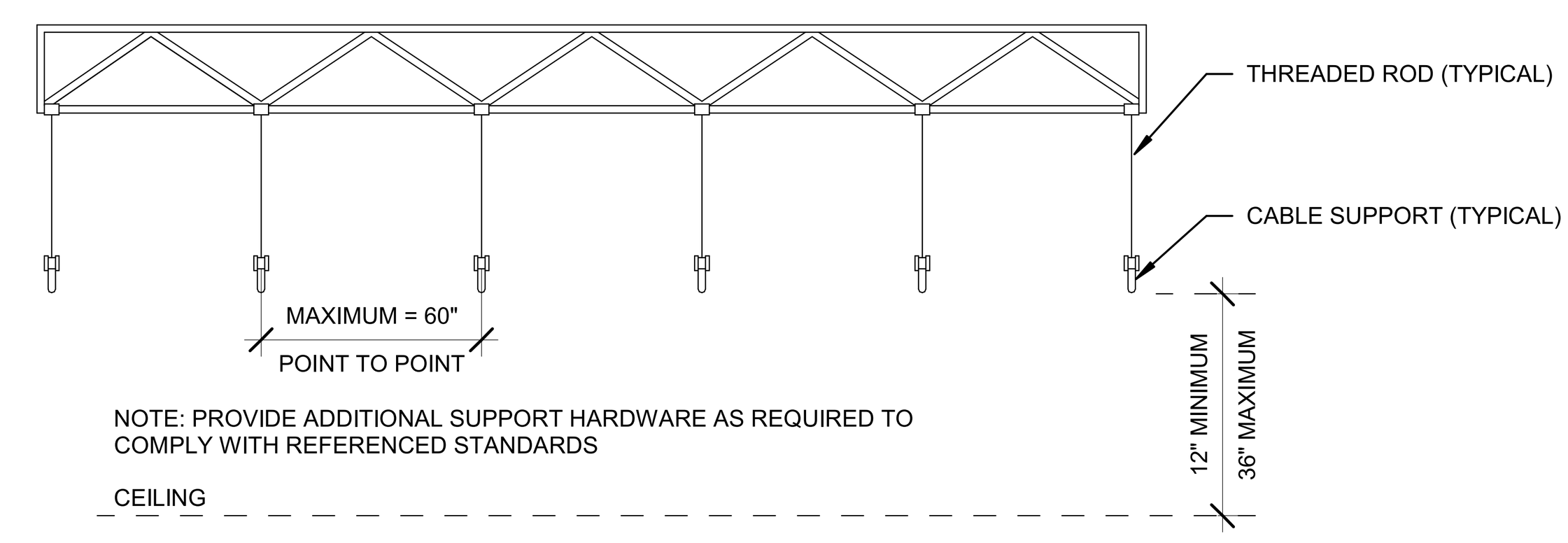
GENERAL NOTES:

GENERAL NOTES
1. WHERE TELECOMMUNICATIONS OUTLETS ARE INSTALLED IN MULTI-COMPARTMENT SURFACE RACEWAY, PROVIDE 106 JACK FRAMES AS REQUIRED AND STANDARD FACEPLATES TO MATCH ELECTRICAL POWER OUTLET.

PLAN NOTES:

1. FIRST POSITION DESIGNATED FOR VOICE SERVICES AT FACULTY AND STAFF DESK LOCATIONS.
2. A/V CABLING AND CONNECTORS BY OWNER.

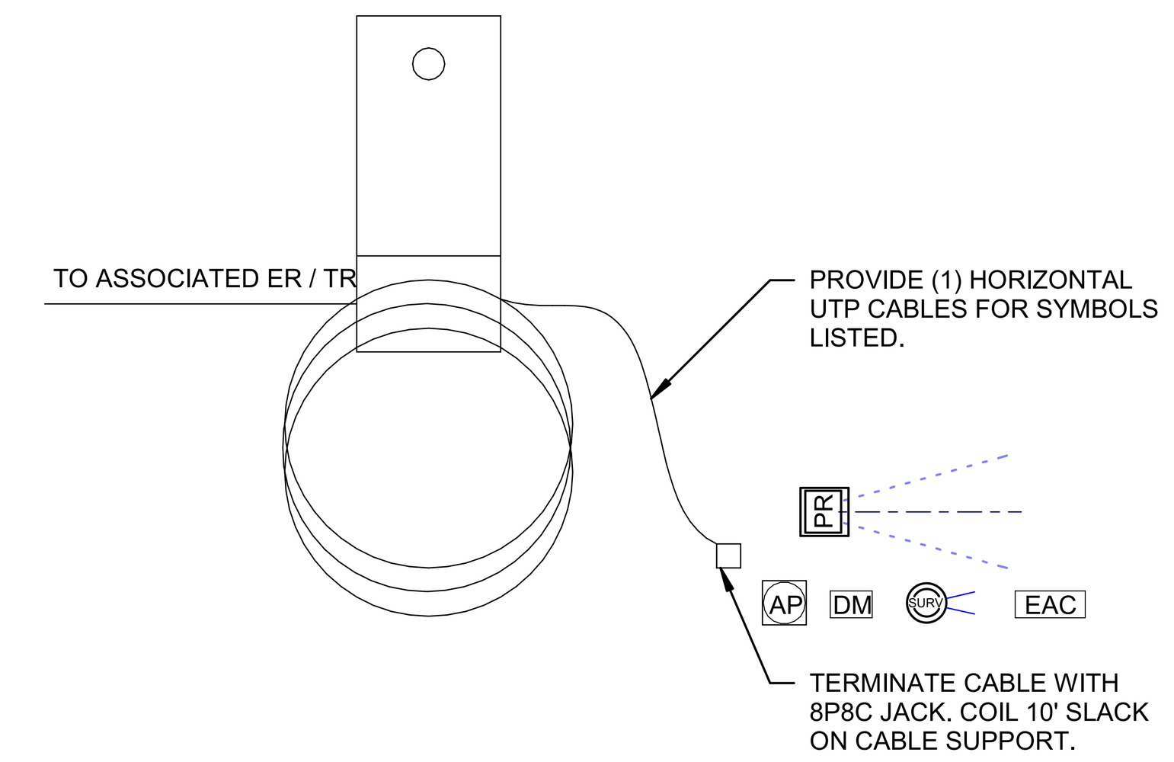
4 FACE PLATE DETAILS
NOT TO SCALE



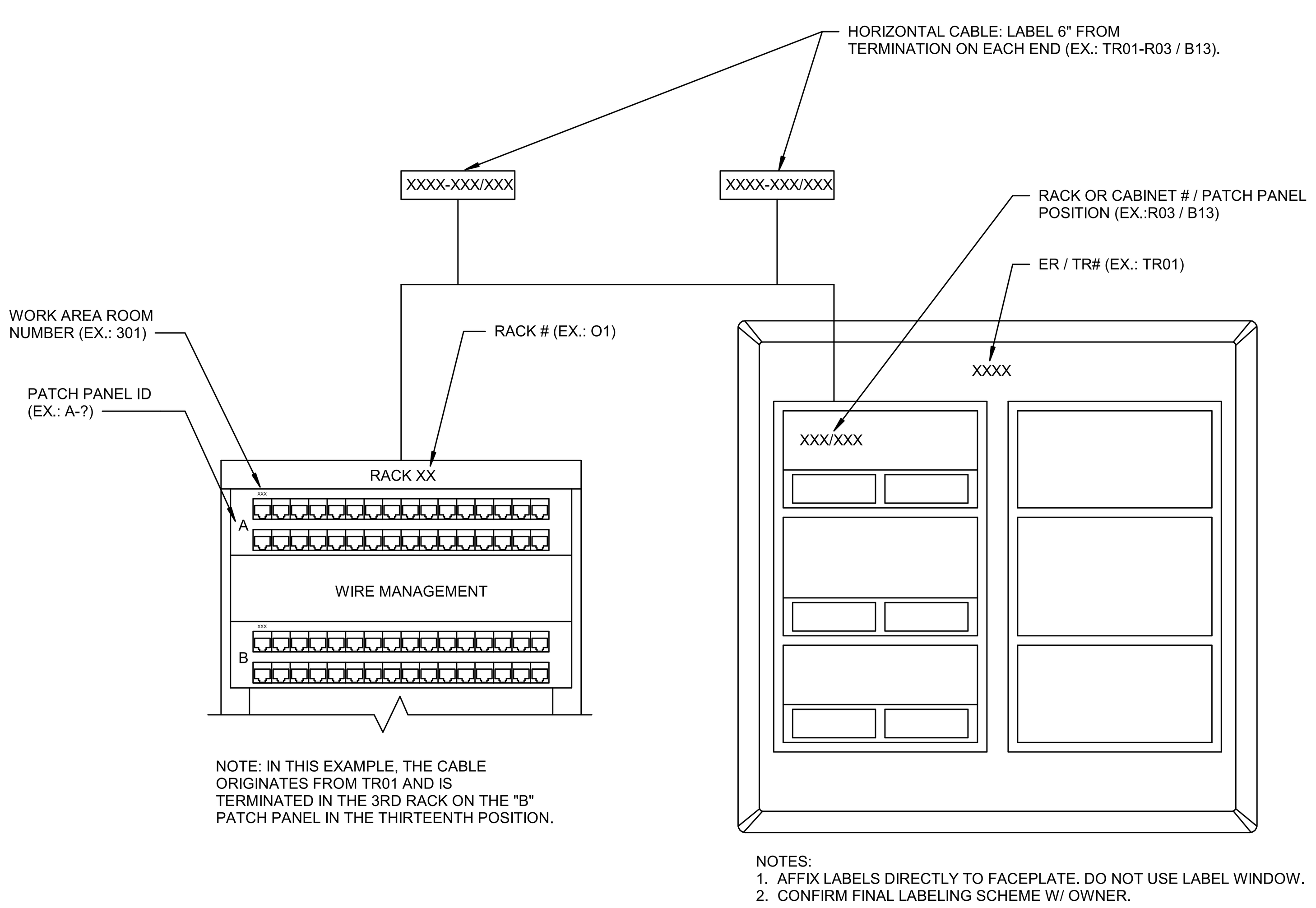
6 CABLE SUPPORT DETAIL
NOT TO SCALE

ROUGH-IN GENERAL NOTES:

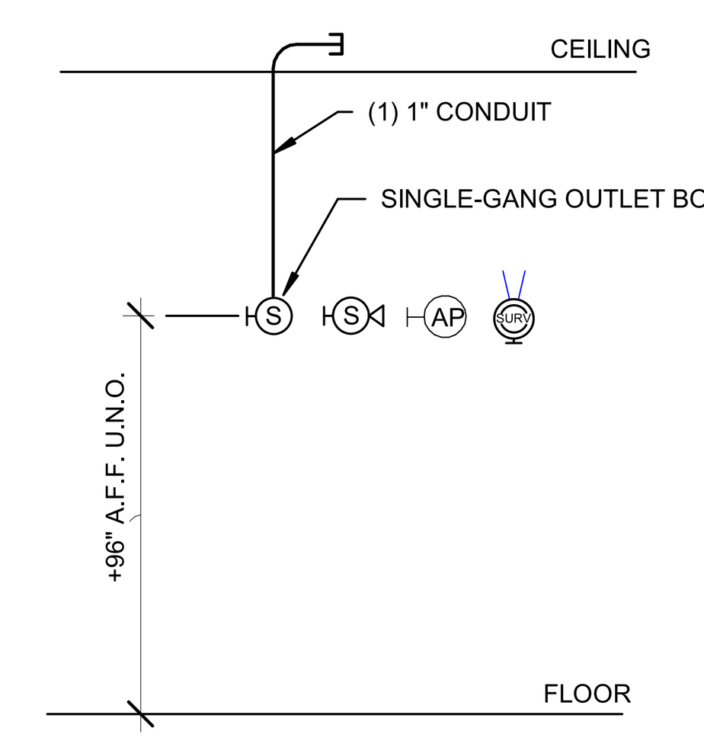
1. TERMINATE ALL ROUGH-IN CONDUITS WITH 90 DEGREE SWEEP AND BUSHINGS IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.
2. CONDUIT BEND RADIUS TO BE COMPLIANT WITH BICSI TDMM MANUAL 12TH ED.
3. ALL ROUGH-IN CONDUITS ARE 1" UNLESS OTHERWISE NOTED.
4. PROVIDE NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS IN A SINGLE CONDUIT RUN.
5. ROUGH-IN OUTLET BOXES TO HAVE 90 DEGREE OPENING CORNERS ON FACE OF BOX.
6. ALL ROUGH-INS BY ELECTRICAL CONTRACTOR.



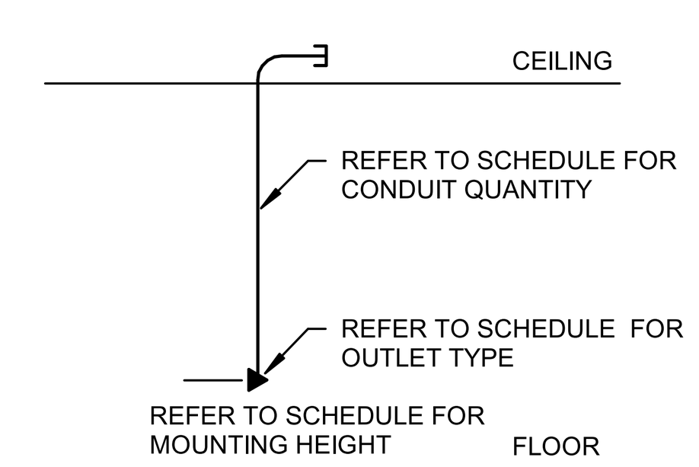
2 TERMINATION DETAIL
NOT TO SCALE



5 ER/TR RACK/PATCH PANEL, WORK AREA OUTLET FACEPLATE LABELING
NOT TO SCALE



1 WALL-MOUNTED DEVICE ROUGH-IN
NOT TO SCALE



7 TYPICAL WALL-MTD. TELECOM. ROUGH-IN
NOT TO SCALE

SCHMIDT ASSOCIATES
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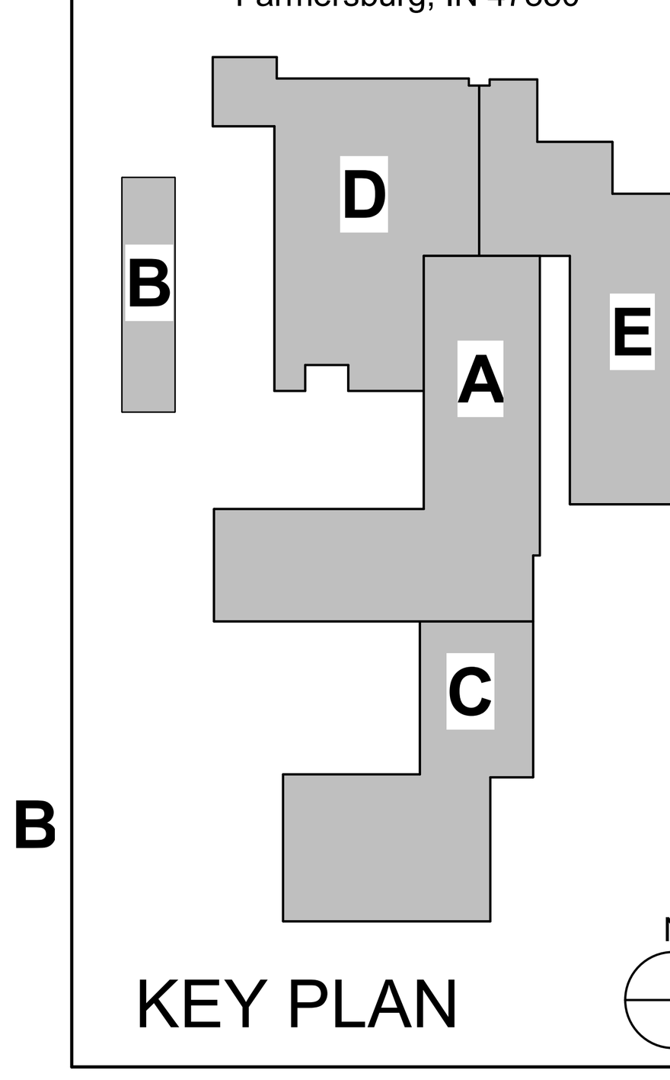

KEY PLAN

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NORTH CENTRAL HIGH SCHOOL

TELECOMMUNICATIONS DETAILS

T-500