VIGO COUNTY SECURITY CENTER

September 5, 2019

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VIGO COUNTY BOARD OF COMMISSIONERS
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COUNTY COMMISSIONER	JUDY ANDERSON
COUNTY COMMISSIONER	BRENDAN KEARNS
ATTORNEY	MICHAEL WRIGHT

COUNTY COUNCIL

COUNCIL AT LARGE	AARON LOUDERMILK, PRESIDENT
COUNCIL AT LARGE	LISA SPENCE-BUNNETT
COUNCIL AT LARGE	JIM MANN
COUNCIL DISTRICT 1	DAVID THOMPSON
COUNCIL DISTRICT 2	CHRIS SWITZER
COUNCIL DISTRICT 3	VICKI WEGER
COUNCIL DISTRICT 4	MIKE MORRIS

SHERIFF'S OFFICE

SHERIFF	JOHN PLASSE
CHIEF DEPUTY	STEVE MENG
CHIEF OF OPERATIONS	DEREK FELL
JAIL COMMANDER	CHARLES FUNK
JAIL MATRON	CASEY LEE

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DLZ PROJECT NO. 1663-1190-90

DLZ
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SURVEYING • CONSTRUCTION SERVICES

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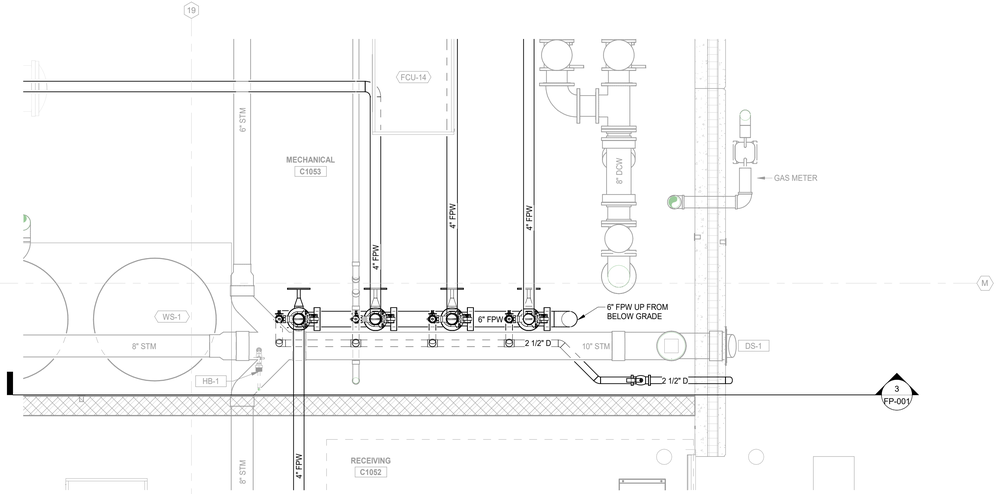
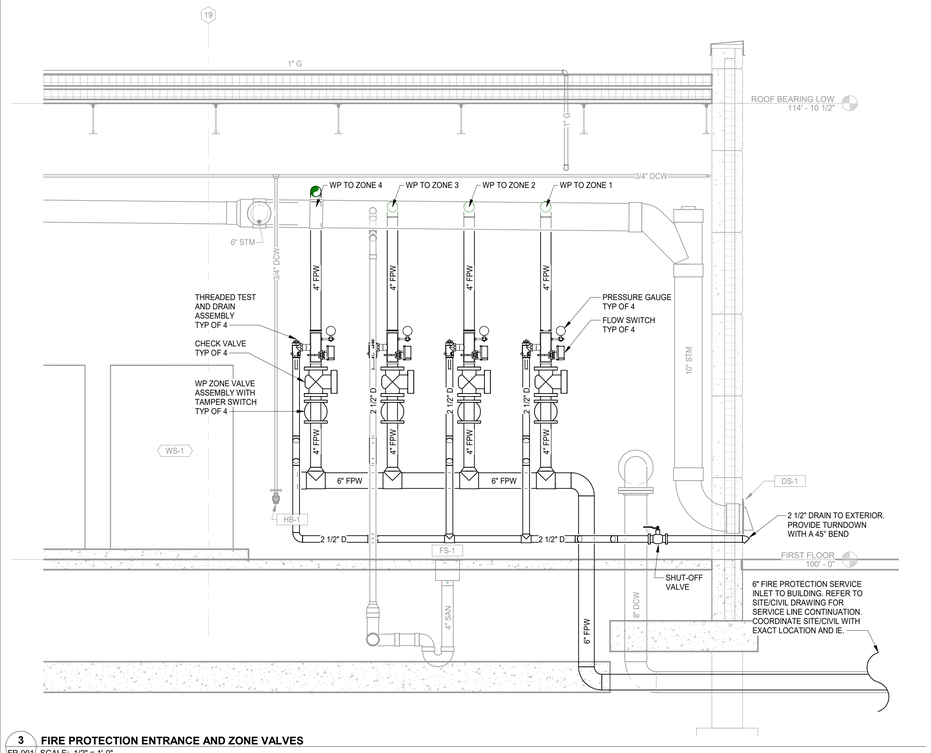
ARCHITECTURE	SITE DEVELOPMENT	CIVIL	CIVIL (WATER/SANITARY SEWER)	STRUCTURAL	MECHANICAL, PLUMBING, FIRE PROTECTION	ELECTRICAL
ERIC B. RATTS, AIA	JEFF HIRSCH, PLA, LEED AP	MATHEU D. DOYLE	JAMIE L. POCZEKAY	VANESSA REDNOUR	JOSHUA R. APLING, PE, LEED AP	MARVIN L. HITCHCOCK, P.E.



4 FP-001 **MECHANICAL C1051 FP ENLARGED FLOOR PLAN**
SCALE: 1/2" = 1'-0"
NORTH



3 FP-001 **FIRE PROTECTION ENTRANCE AND ZONE VALVES**
SCALE: 1/2" = 1'-0"

GENERAL NOTES

A. THE BUILDING SHALL BE PROTECTED WITH A WET PIPE SPRINKLER SYSTEM UNLESS NOTED OTHERWISE.

B. THE WET PIPE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED. DESIGN DENSITIES AND SPRINKLER HEAD COVERAGE ARE LISTED IN DIVISION 21 SPECIFICATIONS

C. HYDRAULIC CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE NFPA-13 STANDARD.

D. ALL PIPING SHALL BE CONCEALED IN AREAS WITH FINISHED CEILINGS UNLESS NOTED OTHERWISE.

E. ALL FLOW TEST DRAINS SHALL BE PIPED TO A SUITABLE DRAIN THAT DISCHARGES TO THE EXTERIOR OF THE BUILDING OR AS INDICATED ON THE DRAWINGS.

F. AUXILIARY DRAINS SHALL BE PROVIDED, WHERE REQUIRED, FOR SYSTEM DRAINAGE.

G. THE FIRE PROTECTION DEVICES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.

H. COORDINATE FIRE SPRINKLER WORK WITH ARCHITECTURAL (REFLECTED CEILING PLAN), ELECTRICAL (LIGHTING), HVAC (DUCTWORK AND PIPING), AND PLUMBING, BEFORE COMMENCING WORK.

I. ALL SYSTEM CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED.

J. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR COSTS, PERMIT FEES AND EQUIPMENT REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL SPRINKLER SYSTEM, AS INDICATED IN THE CONTRACT DOCUMENTS.

K. CONTRACTOR SHALL PREPARE AND SUBMIT SPRINKLER PLANS AND PRODUCT DATA SHEETS THAT CONTAIN SUFFICIENT DETAIL FOR THE AUTHORITIES HAVING JURISDICTION TO EVALUATE THE HAZARD AND EFFECTIVENESS OF THE SPRINKLER SYSTEM.

L. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL BE IN ACCORDANCE WITH NFPA STANDARDS, THE STATE OF INDIANA FIRE CODE, AND OTHER LOCAL FIRE CODE AUTHORITY HAVING JURISDICTION.

M. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SUBMITTALS SHALL BE SIGNED AND STAMPED BY A QUALIFIED FIRE PROTECTION PROFESSIONAL ENGINEER.

N. ANY CONFLICTS WHICH OCCUR DUE TO LACK OF COORDINATION OF THE SPRINKLER CONTRACTOR WITH OTHER DIVISIONS SHALL BE CORRECTED BY THE SPRINKLER CONTRACTOR WITH NO FURTHER EXPENSE TO OWNER.

O. SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE NFPA-13 AND BY THE AUTHORITY HAVING JURISDICTION BEFORE COMMISSIONING THE SPRINKLER SYSTEMS.

P. SQUARE FOOTAGES ARE APPROXIMATE. REFER TO ARCHITECTURAL FOR PLANS DIMENSIONS.

Q. ALL FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED TO DRAIN BACK TO ALARM VALVES OR DRAIN STATIONS.

ABBREVIATIONS

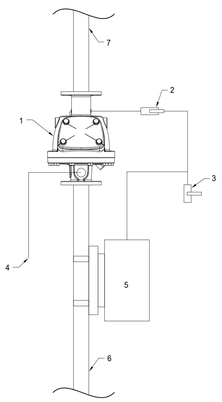
AS	AUTOMATIC SPRINKLER PIPING
DN	DOWN
DP	DRY PIPE
DWG	DRAWING
CONT	CONTINUATION
F	FIRE WATER SUPPLY
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
IE	INVERT ELEVATION
MFGR	MANUFACTURER
OS&Y	OUTSIDE SCREW & YOKE
PA	PREACTION
REQ'S	REQUIREMENTS
SD	SPRINKLER DRAIN
TYP	TYPICAL
FPA	FIRE PROTECTION PREACTION
FPW	FIRE PROTECTION WET
FPD	FIRE PROTECTION DRY
WP	WET PIPE

SYMBOLS

- FPW — FIRE PROTECTION WET
- FPD — FIRE PROTECTION DRY
- FPA — FIRE PROTECTION PREACTION
- D — DRAIN LINE
- PIPING: DOWN
- PIPING: UP
- PIPE CONTINUATION
- WATER FLOW INDICATOR
- DIRECTION OF FLOW
- UNION
- CHECK VALVE
- OS&Y VALVE WITH TAMPER SWITCH
- GATE OR BUTTERFLY VALVE WITH TAMPER SWITCH
- DRAIN/TEST VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- SIGHT GLASS
- FIRE DEPARTMENT SIAMESE CONNECTION

FIRE PROTECTION BASIS OF DESIGN

OCCUPANCY/CONSTRUCTION TYPE	- A3, B, I3, S1 & S2
GPMxSF REQUIRED	- 0.10x1500 & 0.15x1500
SPRINKLER DURATION	- 30 MINUTES
MAXIMUM AREA PER ZONE	- 52,000SF
FLOW ZONE WITH HOSE CONNECTION	- 325 GPM



NOTES:

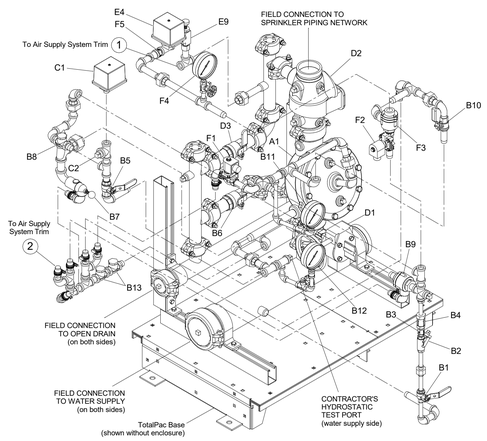
1. DRY PIPE ZONE VALVE.
2. LOCKABLE BALL VALVE.
3. DRIP LEG WITH LOCKABLE BALL VALVE.
4. 3" DRAIN PIPE TO FLOOR SINK IN NEARBY CHASE. SEE PLANS FOR LOCATION.
5. OILLESS RISER MOUNTED AIR COMPRESSOR 120V SINGLE PHASE, 1/3HP.
6. WET PIPE SUPPLYING DRY PIPE SYSTEM.
7. AUTOMATIC SPRINKLER DRY PIPE SYSTEM PIPING.

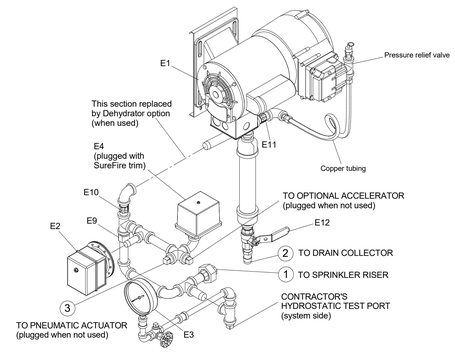
2 FP-001 **DRY PIPE DETAIL**
SCALE: N.T.S.

REGULAR CEILING PANEL DETAIL

(2'-0" X 2'-0")

1 LOCATE SPRINKLER AT THE CENTER OF THE ACOUSTICAL PANEL

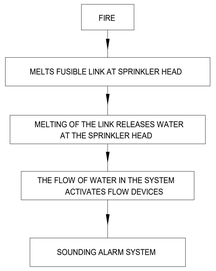




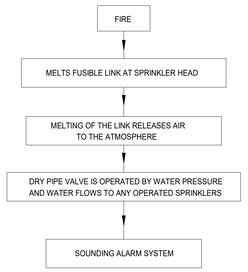
TRIM COMPONENTS:

A1	DELUGE VALVE	C1	ALARM PRESSURE SWITCH
B1	PRIMING VALVE	C2	CONNECTION TO WATER MOTOR GONG (STRAINER SUPPLIED BY CONTRACTOR)
B2	STRAINER	D1	WATER SUPPLY CONTROL VALVE
B3	1/16" RESTRICTED ORIFICE	D2	RISER CHECK VALVE
B4	SPRING LOADED CHECK VALVE	D3	MAIN DRAIN VALVE
B5	ALARM TEST VALVE	E4	AIR SUPERVISORY PRESSURE SWITCH
B6	FLOW TEST VALVE	E9	FLOAT-CHECK ASSEMBLY
B7	DRIP CHECK VALVE	F1	N.C. SOLENOID VALVE - 24Vdc
B8	DRAIN CHECK VALVE	F2	N.O. SOLENOID VALVE - 24Vdc
B9	PRESSURE OPERATED RELIEF VALVE (PORV)	F3	PNEUMATIC ACTUATOR
B10	EMERGENCY RELEASE VALVE	F4	PNEUMATIC ACTUATOR PRESSURE GAUGE
B11	PRIMING PRESSURE WATER GAUGE & VALVE	F5	5/64" RESTRICTED ORIFICE
B12	WATER SUPPLY PRESSURE GAUGE & VALVE		
B13	CLAPPER CHECK VALVE		

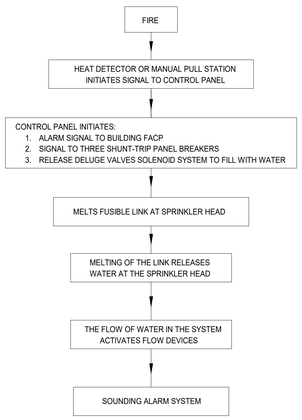
1 FP-001 **PREACTION SYSTEM TRIM DIAGRAM**
SCALE: N.T.S.



WET PIPE SYSTEM OPERATIONAL DIAGRAM



DRY PIPE SYSTEM OPERATIONAL DIAGRAM



PREACTION SYSTEM OPERATIONAL DIAGRAM

FIRE PROTECTION BACKFLOW PREVENTER SCHEDULE

TAG		DESCRIPTION	MANUFACTURER	VOLT	PHASE CYCLE	NOTES
DCV	1	DOUBLE CHECK VALVE DETECTOR ASSEMBLY BACKFLOW PREVENTER - MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL. THE STEM SHALL BE STAINLESS STEEL AND THE SEAT DISC ELASTOMERS SHALL BE EPDM, OS&Y SHUT-OFF VALVES.	ZURN WILKINS MODEL 350ADA-6" OR EQUIVALENT	-	-	6 PSI LOSS @ 1250 GPM ■ INSTALL IN SITE/CIVIL PROVIDED VAULT.
PA	1	PREACTION SYSTEM: 1-1/2" DOUBLE INTERLOCK PACKAGED SYSTEM WITH SHUT-OFF VALVE, SIGHT GLASS ASSEMBLY, 1/6 HP AIR COMPRESSOR, CONTROLS AND COMPLETE TRIM. OPERATES IN NON-POWERED SITUATION.	FIREFLEX SUREFIRE MODEL TSSFDOWP15	115	1	INSTALL PER MFGR REQ'S. SEE DETAIL 1/FP-001
PA	2	PREACTION SYSTEM: 1-1/2" DOUBLE INTERLOCK PACKAGED SYSTEM WITH SHUT-OFF VALVE, SIGHT GLASS ASSEMBLY, 1/6 HP AIR COMPRESSOR, CONTROLS AND COMPLETE TRIM. OPERATES IN NON-POWERED SITUATION.	FIREFLEX SUREFIRE MODEL TSSFDOWP15	115	1	INSTALL PER MFGR REQ'S. SEE DETAIL 1/FP-001
PA	3	PREACTION SYSTEM: 1-1/2" DOUBLE INTERLOCK PACKAGED SYSTEM WITH SHUT-OFF VALVE, SIGHT GLASS ASSEMBLY, 1/6 HP AIR COMPRESSOR, CONTROLS AND COMPLETE TRIM. OPERATES IN NON-POWERED SITUATION.	FIREFLEX SUREFIRE MODEL TSSFDOWP15	115	1	INSTALL PER MFGR REQ'S. SEE DETAIL 1/FP-001
PA	4	PREACTION SYSTEM: 1-1/2" DOUBLE INTERLOCK PACKAGED SYSTEM WITH SHUT-OFF VALVE, SIGHT GLASS ASSEMBLY, 1/6 HP AIR COMPRESSOR, CONTROLS AND COMPLETE TRIM. OPERATES IN NON-POWERED SITUATION.	FIREFLEX SUREFIRE MODEL TSSFDOWP15	115	1	INSTALL PER MFGR REQ'S. SEE DETAIL 1/FP-001

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DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: JRA CHK'D: JRA
DESIGNED: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

DRAWING NUMBER
FP-001
FIRE PROTECTION

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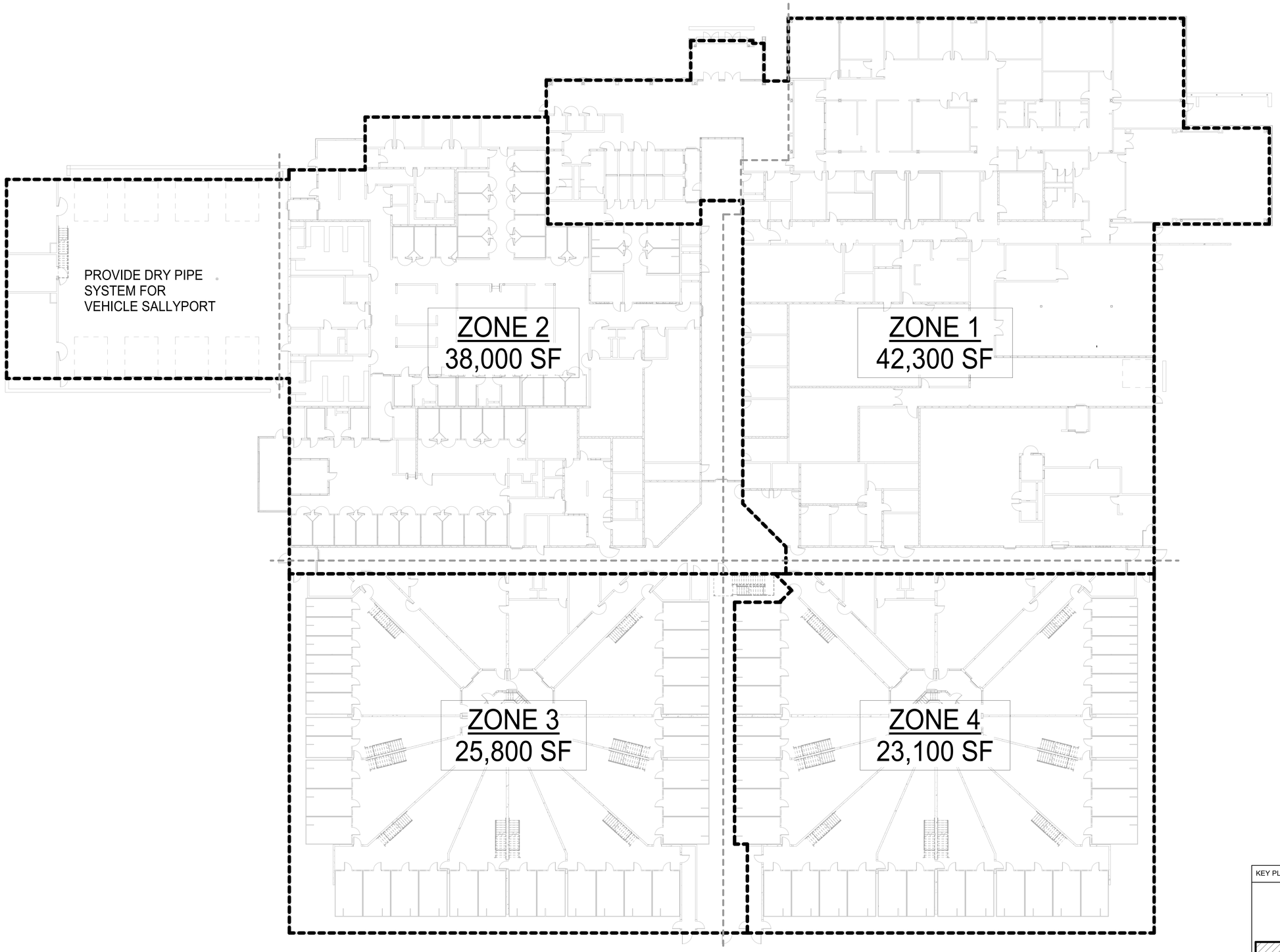


ZONE 1 SF		
ZONE	LEVEL	AREA
ZONE 1	FIRST FLOOR - AREA C	42,300 SF
TOTAL		42,300 SF

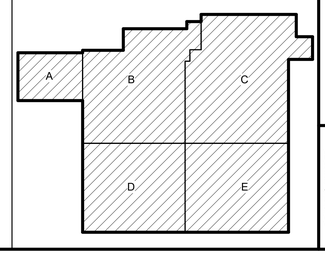
BASE BID - ZONE 2 SF		
ZONE	LEVEL	AREA
ZONE 2	BASE BID - FIRST FLOOR - AREA A & B	38,000 SF
ZONE 2	BASE BID - MEZZANINE - AREA A & B	910 SF
TOTAL		38,910 SF

ALTERNATE BID - ZONE 2 SF		
ZONE	LEVEL	AREA
ZONE 2	ALTERNATE BID - FIRST FLOOR - AREA A & B	34,900 SF
ZONE 2	ALTERNATE BID - MEZZANINE - AREA A & B	910 SF
TOTAL		35,810 SF

ZONE 3 SF		
ZONE	LEVEL	AREA
ZONE 3	FIRST FLOOR - AREA D	25,800 SF
ZONE 3	LOWER LEVEL - AREA D	330 SF
ZONE 3	MEZZANINE - AREA D	6,100 SF
TOTAL		32,230 SF

ZONE 4 SF		
ZONE	LEVEL	AREA
ZONE 4	FIRST FLOOR - AREA E	23,100 SF
ZONE 4	LOWER LEVEL - AREA E	330 SF
ZONE 4	MECH. MEZZANINE - AREA B & C	6,900 SF
ZONE 4	MEZZANINE - AREA E	6,100 SF
TOTAL		36,430 SF

KEY PLAN



NORTH

1 FP-101 FIRST FLOOR FIRE PROTECTION PLAN - OVERALL
SCALE: 1/16" = 1'-0"

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

JOSHUA R. ARLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

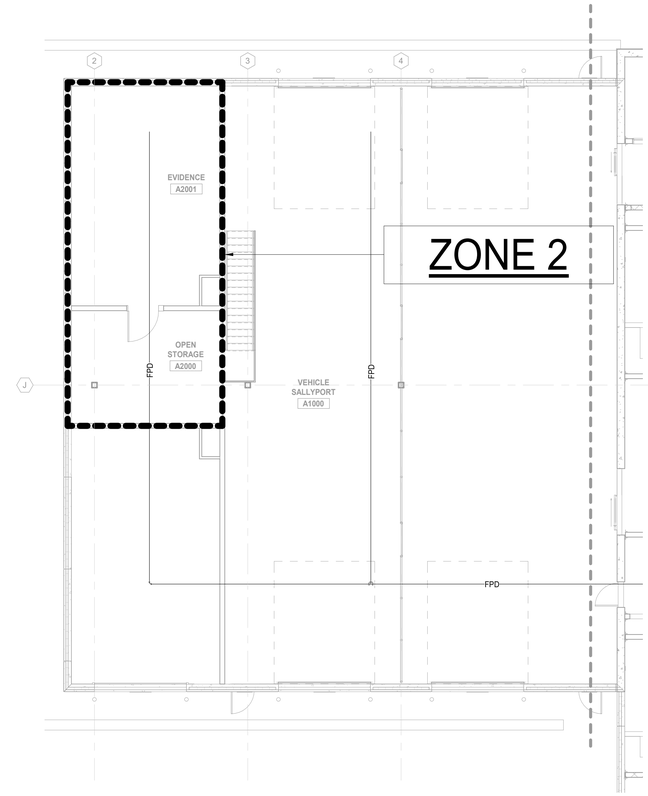
NO.	REVISION	DATE

DRAWN: JRA
CHK'D: JRA
DESIGNED: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

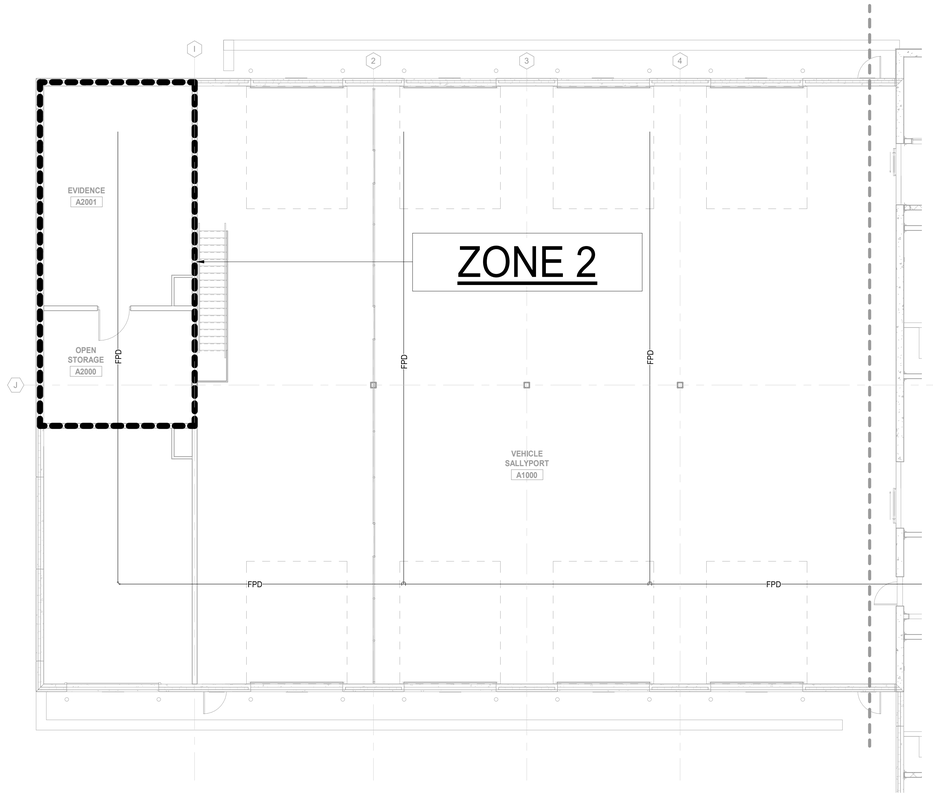
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR FIRE PROTECTION PLAN - OVERALL

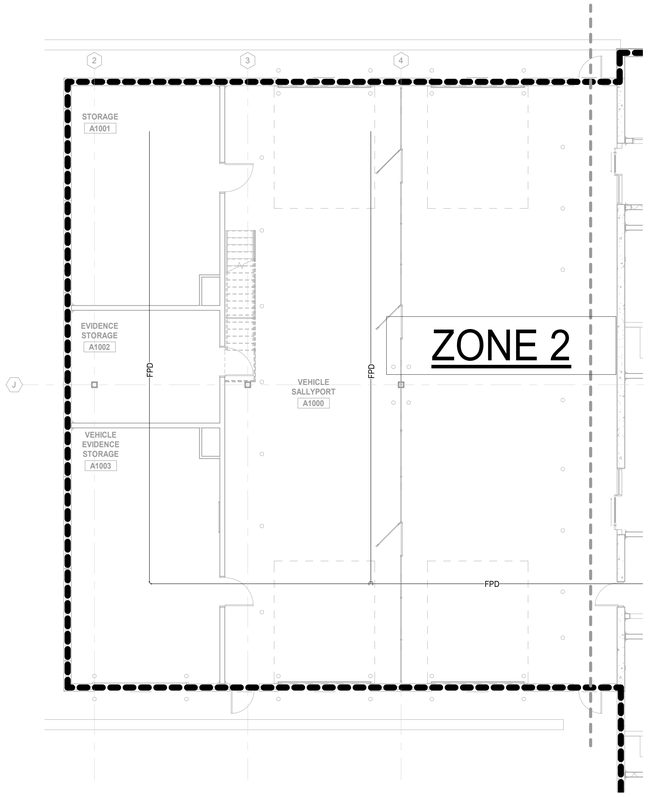
DRAWING NUMBER
FP-101
FIRE PROTECTION



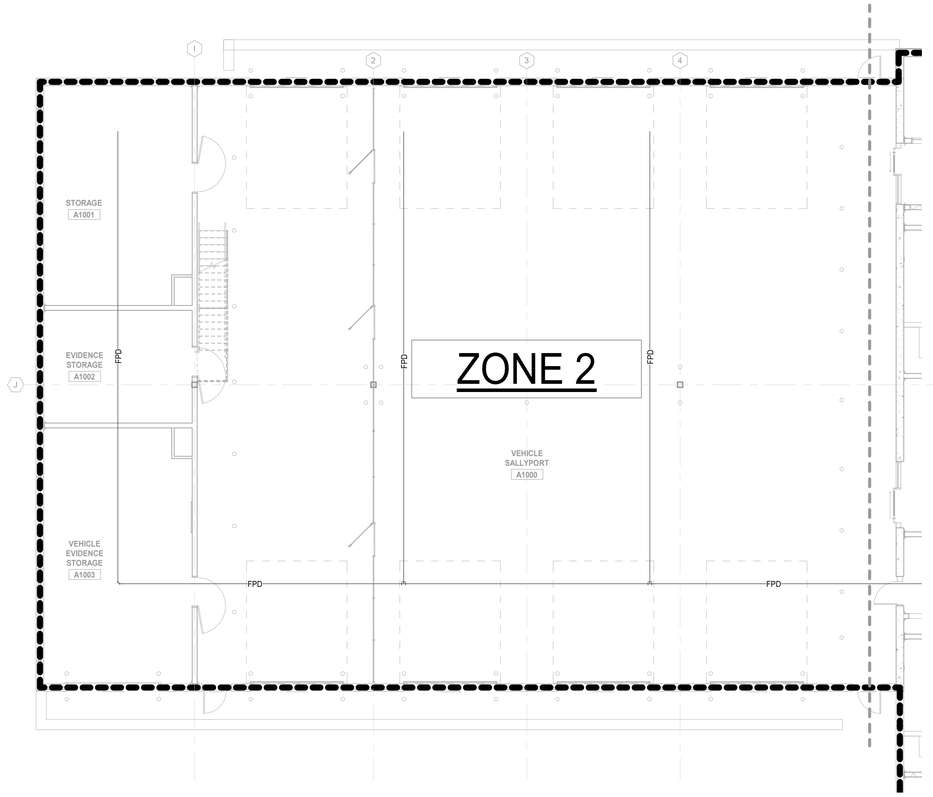
3 ALTERNATE BID - MEZZANINE FIRE PROTECTION PLAN - AREA A
FP-101-A SCALE: 1/8" = 1'-0"
NORTH



4 BASE BID - MEZZANINE FIRE PROTECTION PLAN - AREA A
FP-101-A SCALE: 1/8" = 1'-0"
NORTH



2 ALTERNATE BID - FIRST FLOOR FIRE PROTECTION PLAN - AREA A
FP-101-A SCALE: 1/8" = 1'-0"
NORTH



1 BASE BID - FIRST FLOOR FIRE PROTECTION PLAN - AREA A
FP-101-A SCALE: 1/8" = 1'-0"
NORTH

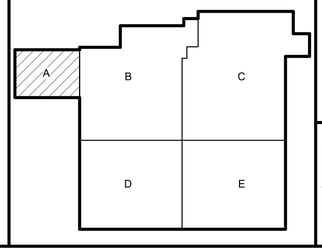
GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATION.
4. ALL REQUIRED SHUT-OFF VALVES IN THE HOUSING UNIT CHASES WILL BE CLEARLY MARKED, LOCATED IN THE SAME PLACE, AND ACCESSIBLE WITHOUT A LADDER.
5. ALL SHUT-OFF VALVES LOCATED ABOVE THE CEILING THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.
6. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING AND DEVICES.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

BASE BID - ZONE 2 SF		
ZONE	LEVEL	AREA
ZONE 2	BASE BID - FIRST FLOOR - AREA A & B	38,000 SF
ZONE 2	BASE BID - MEZZANINE - AREA A & B	910 SF
TOTAL		38,910 SF

ALTERNATE BID - ZONE 2 SF		
ZONE	LEVEL	AREA
ZONE 2	ALTERNATE BID - FIRST FLOOR - AREA A & B	34,900 SF
ZONE 2	ALTERNATE BID - MEZZANINE - AREA A & B	910 SF
TOTAL		35,810 SF

KEY PLAN



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ARCHITECTURE • ENGINEERING • PLANNING
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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: JRA CHK'D: JRA
DESIGNED: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR & MEZZANINE FIRE PROTECTION PLAN - AREA A

DRAWING NUMBER FP-101-A
FIRE PROTECTION

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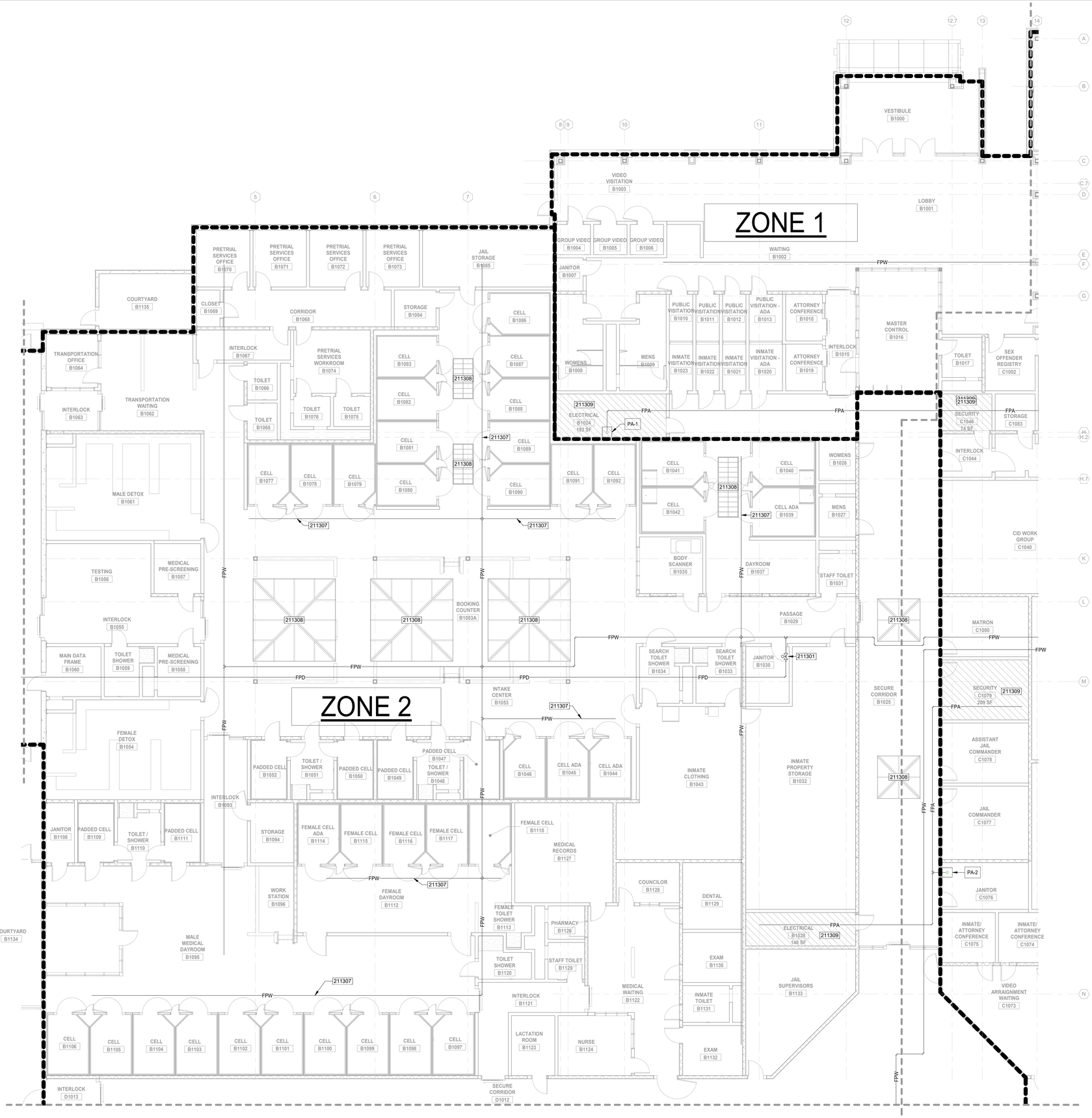

1 FIRST FLOOR FIRE PROTECTION PLAN - AREA B
FP-101-B SCALE: 1/8" = 1'-0"

NORTH

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GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATION.
4. ALL REQUIRED SHUT-OFF VALVES IN THE HOUSING UNIT CHASES WILL BE CLEARLY MARKED, LOCATED IN THE SAME PLACE, AND ACCESSIBLE WITHOUT A LADDER.
5. ALL SHUT-OFF VALVES LOCATED ABOVE THE CEILING THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.
6. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING AND DEVICES.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

FIRE PROTECTION KEYNOTES

211301 DRY PIPE SPRINKLER VALVE AND COMPRESSOR. SEE DETAIL 2/FP-001.

211307 CONNECT SPRINKLER PIPING IN CHASE TO PIPE CONNECTION PROVIDED FOR EACH PREFABRICATED CELL. SPRINKLER HEAD AND ASSOCIATED PIPING TO BE PROVIDED BY DIVISION 21.

211308 PROVIDE HIGH TEMPERATURE SPRINKLER HEADS TO PROTECT SKYLIGHT WELL PER NFPA-13 REQUIREMENTS.

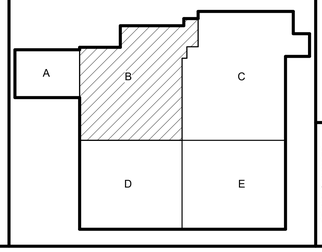
211309 PROVIDE PREACTION FIRE PROTECTION SYSTEM.

ZONE 1 SF		
ZONE	LEVEL	AREA
ZONE 1	FIRST FLOOR - AREA C	42,300 SF
TOTAL		42,300 SF

BASE BID - ZONE 2 SF		
ZONE	LEVEL	AREA
ZONE 2	BASE BID - FIRST FLOOR - AREA A & B	38,000 SF
ZONE 2	BASE BID - MEZZANINE - AREA A & B	910 SF
TOTAL		38,910 SF

ALTERNATE BID - ZONE 2 SF		
ZONE	LEVEL	AREA
ZONE 2	ALTERNATE BID - FIRST FLOOR - AREA A & B	34,900 SF
ZONE 2	ALTERNATE BID - MEZZANINE - AREA A & B	910 SF
TOTAL		35,810 SF

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
LICENSED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

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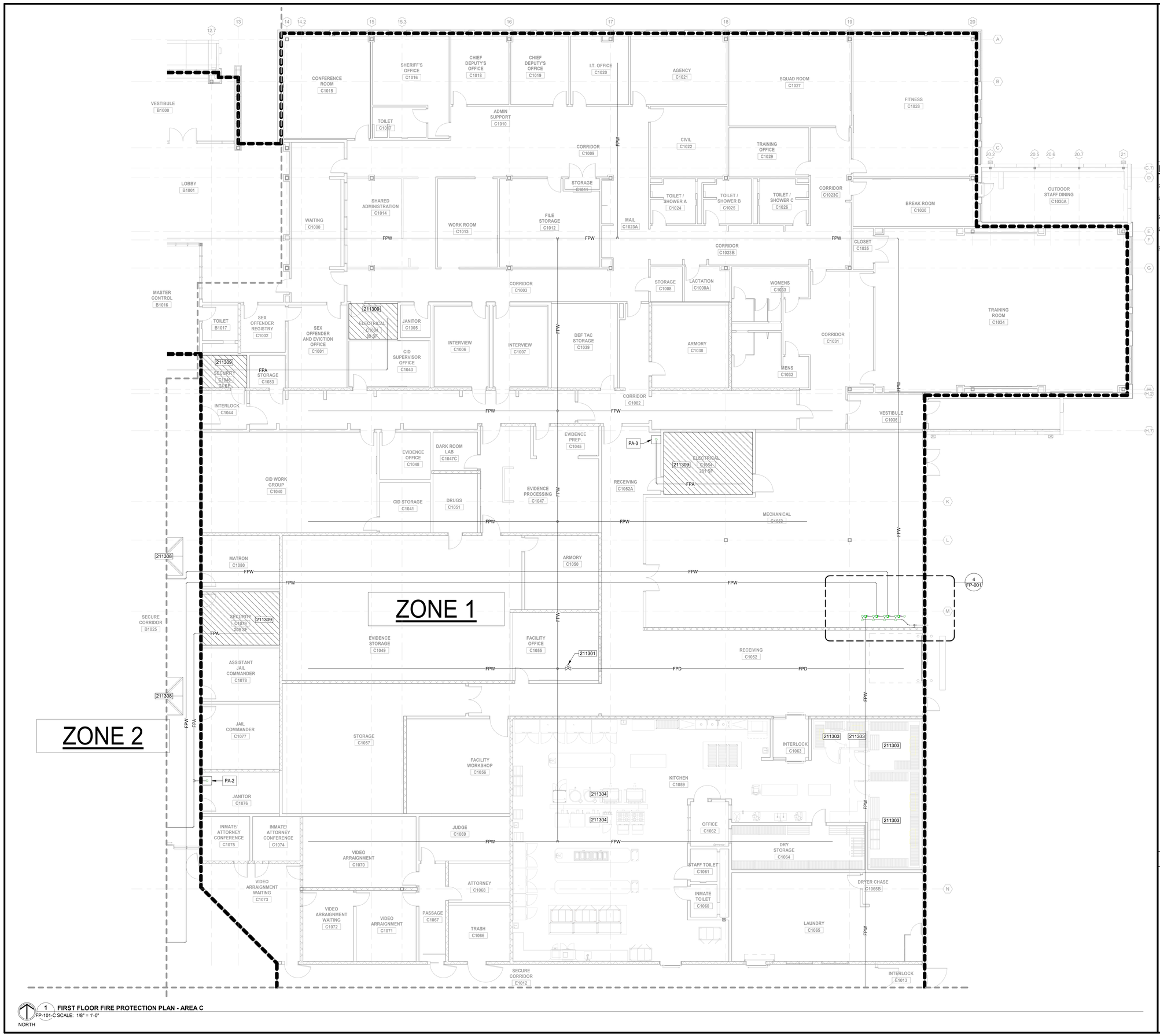
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR FIRE PROTECTION PLAN - AREA B

DRAWING NUMBER FP-101-B

FIRE PROTECTION



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA C
FP-101-C SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
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7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

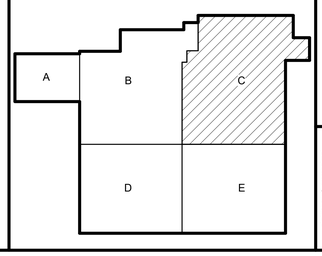
FIRE PROTECTION KEYNOTES

211301	DRY PIPE SPRINKLER VALVE AND COMPRESSOR. SEE DETAIL 2/FP-001.
211303	PROVIDE DRY BARREL, FREEZE PROOF SPRINKLER HEADS WITH RISER INTENDED FOR USE WITH KITCHEN FREEZER AND COOLERS.
211304	SEE KITCHEN DRAWINGS FOR HOOD FIRE PROTECTION REQUIREMENTS.
211308	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS TO PROTECT SKYLIGHT WELL PER NFPA-13 REQUIREMENTS.
211309	PROVIDE PREACTION FIRE PROTECTION SYSTEM.

ZONE 1 SF

ZONE	LEVEL	AREA
ZONE 1	FIRST FLOOR - AREA C	42,300 SF
TOTAL		42,300 SF

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. ARLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: JRA
DESIGNED: JRA
APPRVD: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR FIRE PROTECTION PLAN - AREA C

DRAWING NUMBER FP-101-C

FIRE PROTECTION

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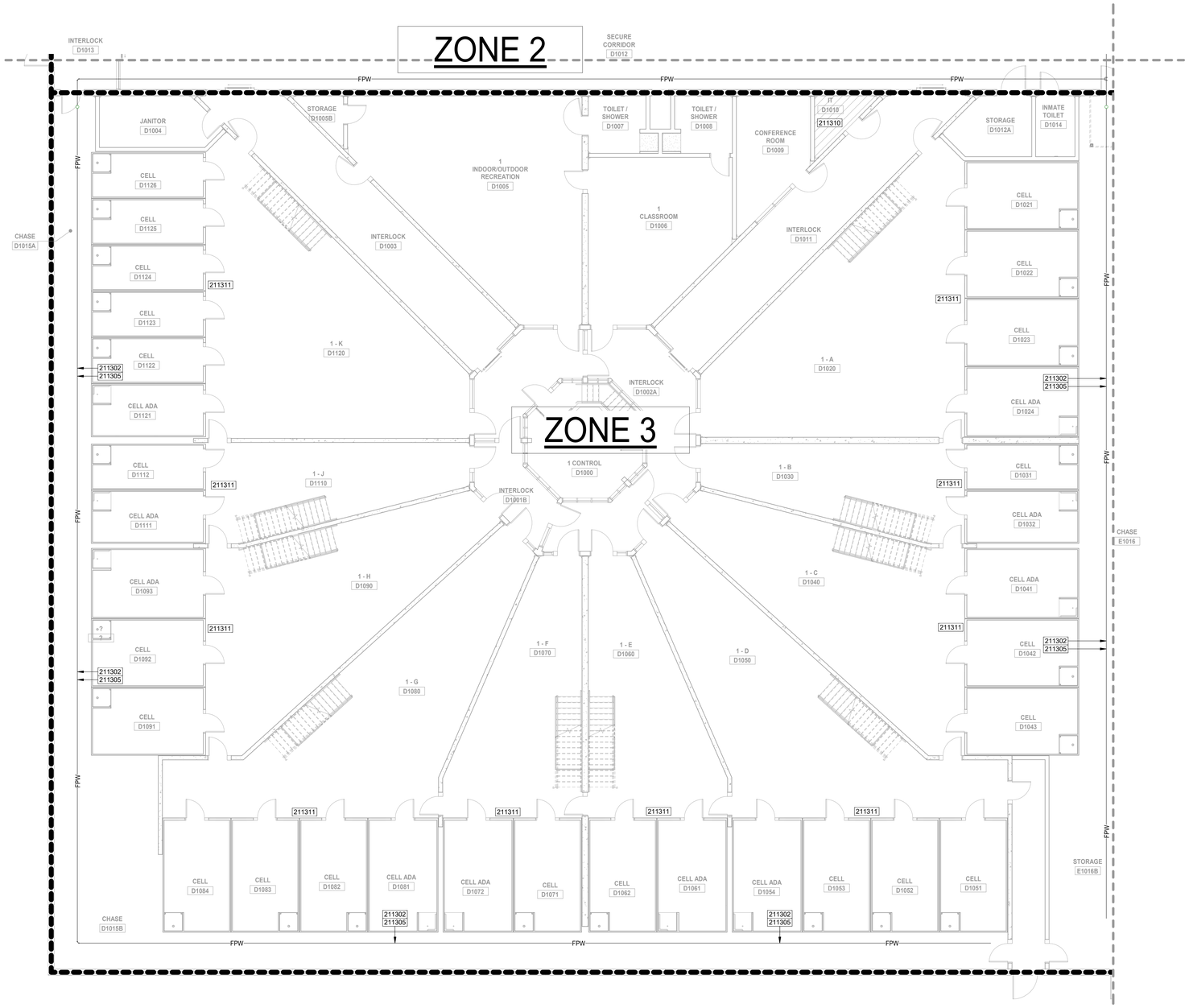
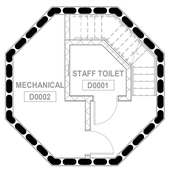


1 FIRST FLOOR FIRE PROTECTION PLAN - AREA D
FP-101-D SCALE: 1/8" = 1'-0"
NORTH

ZONE 3
330 SF



2 LOWER LEVEL FIRE PROTECTION PLAN - AREA D
FP-101-D SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
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7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

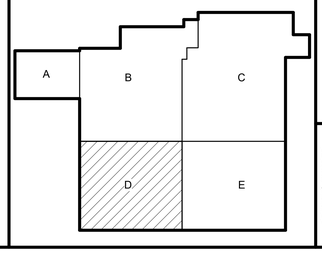
FIRE PROTECTION KEYNOTES

211302	CONNECT SPRINKLER PIPING IN CHASE TO PIPE CONNECTION PROVIDED FOR EACH PREFABRICATED CELL SPRINKLER PIPE.
211303	PROVIDE DRY BARREL, FREEZE PROOF SPRINKLER HEADS WITH RISER INTENDED FOR USE WITH KITCHEN FREEZER AND COOLERS.
211304	SEE KITCHEN DRAWINGS FOR HOOD FIRE PROTECTION REQUIREMENTS.
211305	PIPE MAIN INDICATED IN WALK-THRU CHASE IS DIAGRAMMATIC ONLY TO SHOW GENERAL ROUTING. PIPING TO BE LOCATED IN CHASE ABOVE MEZZANINE LEVEL CELLS AT A LOCATION TO ALLOW 36" CLEAR FOR A MECHANICAL LIFT TO ACCESS PLUMBING, HVAC, AND ELECTRICAL COMPONENTS. LOCATION OF MAIN TO BE COORDINATED WITH DUCTWORK, PIPING, LIGHT, AND ALL OTHER EQUIPMENT.
211308	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS TO PROTECT SKYLIGHT WELL PER NFPA-13 REQUIREMENTS.
211310	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS.
211311	PROVIDE SIDEWALL MOUNTED SPRINKLER HEADS ON FRONT FACE OF CELL TO SERVE SPACE BELOW WALKWAY. BRANCH PIPING TO BE PART OF PREFABRICATED CELL WITH CONNECTION IN THE CHASE.

ZONE 3 SF

ZONE	LEVEL	AREA
ZONE 3	FIRST FLOOR - AREA D	25,800 SF
ZONE 3	LOWER LEVEL - AREA D	330 SF
ZONE 3	MEZZANINE - AREA D	6,100 SF
TOTAL		32,230 SF

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
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STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: JRA
CHK'D: JRA
DESIGNED: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR FIRE PROTECTION PLAN - AREA D

DRAWING NUMBER FP-101-D
FIRE PROTECTION

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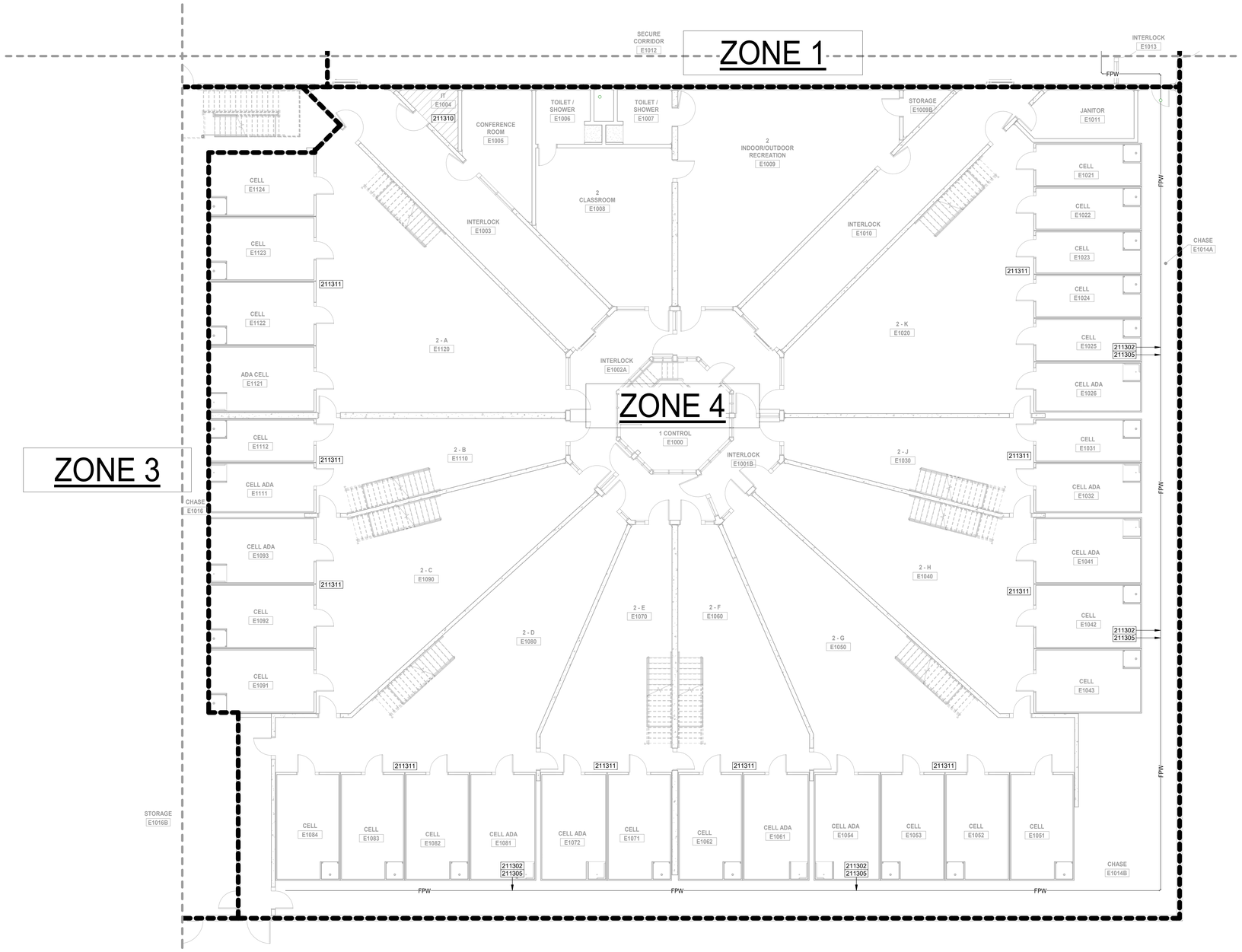
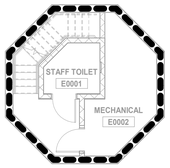


1 FIRST FLOOR FIRE PROTECTION PLAN - AREA E
FP-101-E SCALE: 1/8" = 1'-0"
NORTH

ZONE 4
330 SF



2 LOWER LEVEL FIRE PROTECTION PLAN - AREA E
FP-101-E SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATION.
4. ALL REQUIRED SHUT-OFF VALVES IN THE HOUSING UNIT CHASES WILL BE CLEARLY MARKED, LOCATED IN THE SAME PLACE, AND ACCESSIBLE WITHOUT A LADDER.
5. ALL SHUT-OFF VALVES LOCATED ABOVE THE CEILING THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.
6. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING AND DEVICES.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

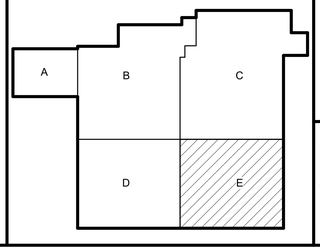
FIRE PROTECTION KEYNOTES

211302	CONNECT SPRINKLER PIPING IN CHASE TO PIPE CONNECTION PROVIDED FOR EACH PREFABRICATED CELL SPRINKLER PIPE.
211303	PROVIDE DRY BARREL, FREEZE PROOF SPRINKLER HEADS WITH RISER INTENDED FOR USE WITH KITCHEN FREEZER AND COOLERS.
211304	SEE KITCHEN DRAWINGS FOR HOOD FIRE PROTECTION REQUIREMENTS.
211305	PIPE MAIN INDICATED IN WALK-THRU CHASE IS DIAGRAMMATIC ONLY TO SHOW GENERAL ROUTING. PIPING TO BE LOCATED IN CHASE ABOVE MEZZANINE LEVEL CELLS AT A LOCATION TO ALLOW 36" CLEAR FOR A MECHANICAL LIFT TO ACCESS PLUMBING, HVAC, AND ELECTRICAL COMPONENTS. LOCATION OF MAIN TO BE COORDINATED WITH DUCTWORK, PIPING, LIGHT, AND ALL OTHER EQUIPMENT.
211308	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS TO PROTECT SKYLIGHT WELL PER NFPA-13 REQUIREMENTS.
211310	PROVIDE HIGH TEMPERATURE SPRINKLER HEADS.
211311	PROVIDE SIDEWALL MOUNTED SPRINKLER HEADS ON FRONT FACE OF CELL TO SERVE SPACE BELOW WALKWAY. BRANCH PIPING TO BE PART OF PREFABRICATED CELL WITH CONNECTION IN THE CHASE.

ZONE 4 SF

ZONE	LEVEL	AREA
ZONE 4	FIRST FLOOR - AREA E	23,100 SF
ZONE 4	LOWER LEVEL - AREA E	330 SF
ZONE 4	MECH. MEZZANINE - AREA B & C	6,900 SF
ZONE 4	MEZZANINE - AREA E	6,100 SF
TOTAL		36,430 SF

KEY PLAN



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6/25/19

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DESIGNED: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR FIRE PROTECTION PLAN - AREA E

DRAWING NUMBER FP-101-E
FIRE PROTECTION

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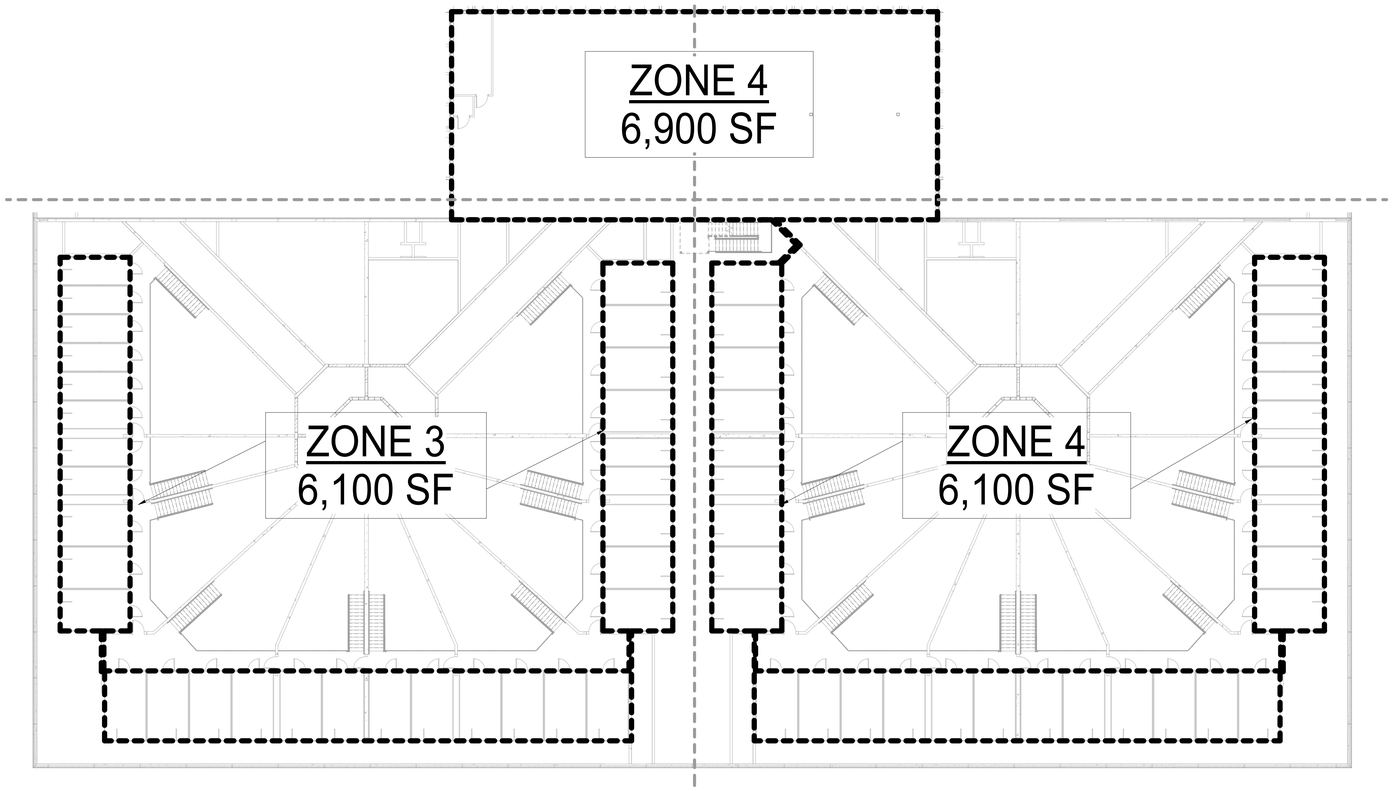
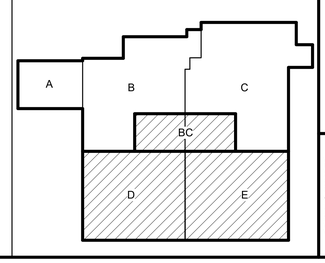


1 FP-102 **MEZZANINE FIRE PROTECTION PLAN - OVERALL**
SCALE: 1/16" = 1'-0"
NORTH

ZONE 3 SF		
ZONE	LEVEL	AREA
ZONE 3	FIRST FLOOR - AREA D	25,800 SF
ZONE 3	LOWER LEVEL - AREA D	330 SF
ZONE 3	MEZZANINE - AREA D	6,100 SF
TOTAL		32,230 SF

ZONE 4 SF		
ZONE	LEVEL	AREA
ZONE 4	FIRST FLOOR - AREA E	23,100 SF
ZONE 4	LOWER LEVEL - AREA E	330 SF
ZONE 4	MECH. MEZZANINE - AREA B & C	6,900 SF
ZONE 4	MEZZANINE - AREA E	6,100 SF
TOTAL		36,430 SF

KEY PLAN



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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE FIRE PROTECTION PLAN - OVERALL

DRAWING NUMBER
FP-102
FIRE PROTECTION

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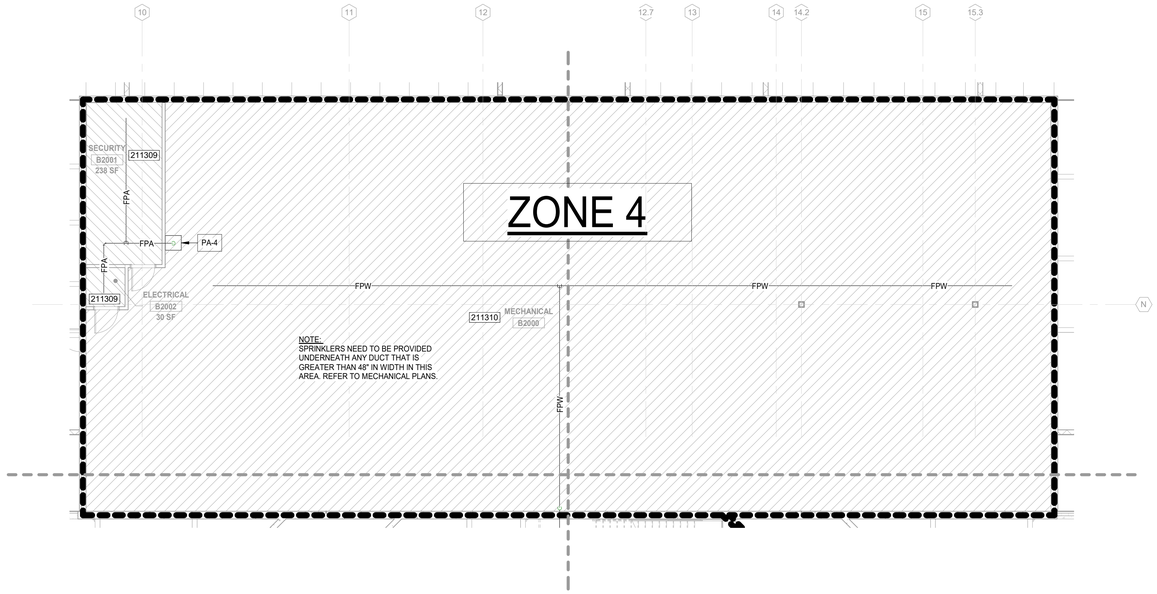


1 MECHANICAL MEZZANINE FIRE PROTECTION PLAN - AREA B & C
FP-102-BCSCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATION.
4. ALL REQUIRED SHUT-OFF VALVES IN THE HOUSING UNIT CHASES WILL BE CLEARLY MARKED, LOCATED IN THE SAME PLACE, AND ACCESSIBLE WITHOUT A LADDER.
5. ALL SHUT-OFF VALVES LOCATED ABOVE THE CEILING THROUGHOUT THE BUILDING SHALL BE WITHIN 36" OF THE CEILING.
6. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING AND DEVICES.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

FIRE PROTECTION KEYNOTES

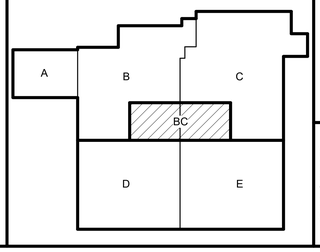
211309 PROVIDE PREACTION FIRE PROTECTION SYSTEM.

211310 PROVIDE HIGH TEMPERATURE SPRINKLER HEADS.

ZONE 4 SF

ZONE	LEVEL	AREA
ZONE 4	FIRST FLOOR - AREA E	23,100 SF
ZONE 4	LOWER LEVEL - AREA E	330 SF
ZONE 4	MECH. MEZZANINE - AREA B & C	6,900 SF
ZONE 4	MEZZANINE - AREA E	6,100 SF
TOTAL		36,430 SF

KEY PLAN



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PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL MEZZANINE FIRE PROTECTION PLAN - AREA B & C

DRAWING NUMBER
FP-102-BC
FIRE PROTECTION

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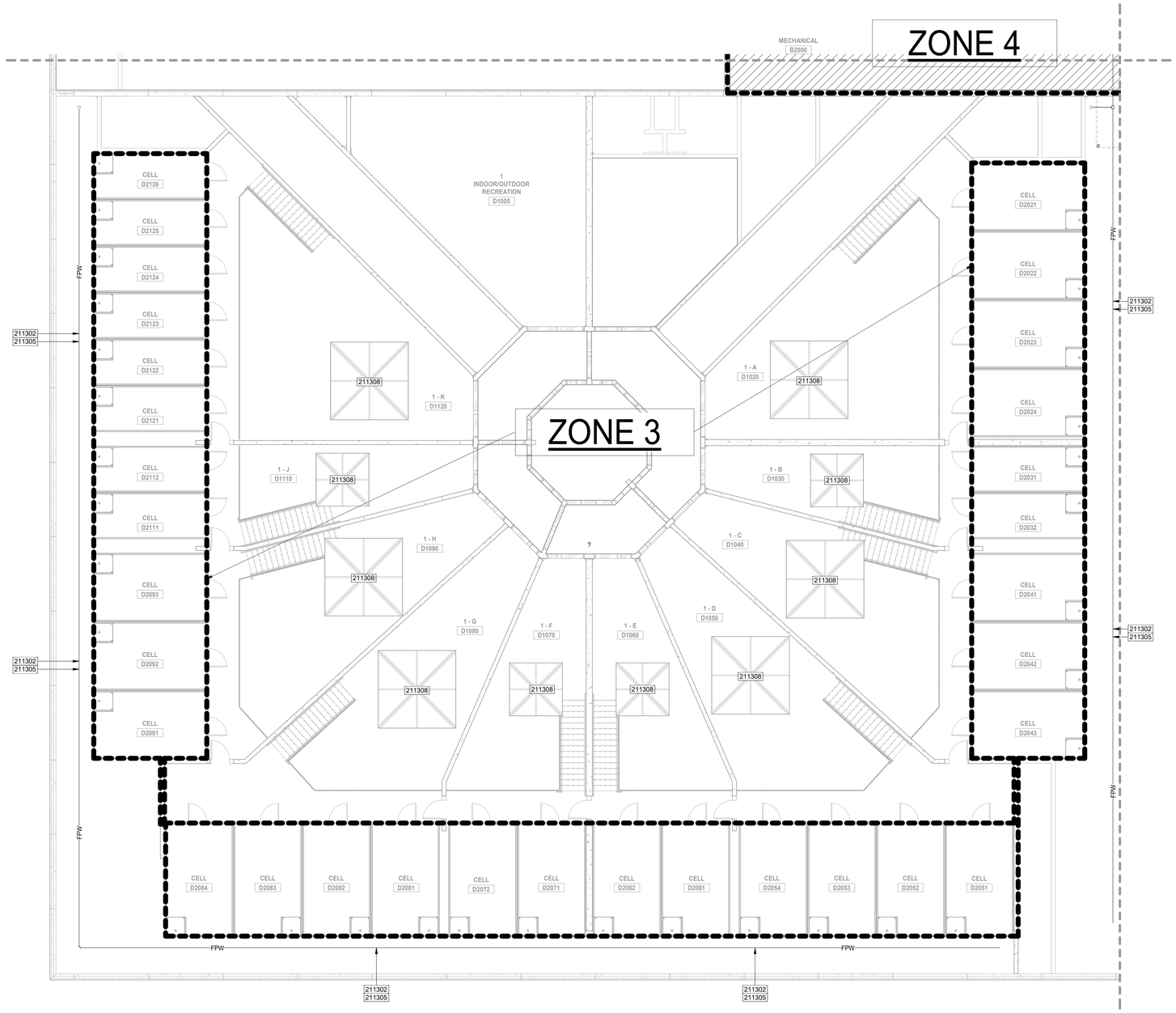

NORTH

1 **MEZZANINE FIRE PROTECTION PLAN - AREA D**
FP-102-D SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATION.
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7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. FIRE PROTECTION MAINS IN AREAS D AND E ARE LOCATED ABOVE MEZZANINE CELL. MAINS DIAGRAMMATICALLY SHOWN ON MEZZANINE & PLANS FOR LEVEL BELOW.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

FIRE PROTECTION KEYNOTES

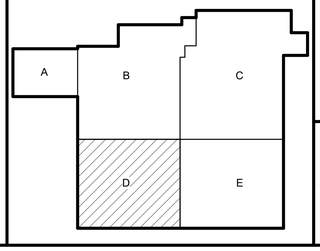
211302 CONNECT SPRINKLER PIPING IN CHASE TO PIPE CONNECTION PROVIDED FOR EACH PREFABRICATED CELL SPRINKLER PIPE.

211305 PIPE MAIN INDICATED IN WALK-THRU CHASE IS DIAGRAMMATIC ONLY TO SHOW GENERAL ROUTING. PIPING TO BE LOCATED IN CHASE ABOVE MEZZANINE LEVEL CELLS AT A LOCATION TO ALLOW 36" CLEAR FOR A MECHANICAL LIFT TO ACCESS PLUMBING, HVAC, AND ELECTRICAL COMPONENTS. LOCATION OF MAIN TO BE COORDINATED WITH DUCTWORK, PIPING, LIGHT, AND ALL OTHER EQUIPMENT.

211308 PROVIDE HIGH TEMPERATURE SPRINKLER HEADS TO PROTECT SKYLIGHT WELL PER NFPA-13 REQUIREMENTS.

ZONE 3 SF		
ZONE	LEVEL	AREA
ZONE 3	FIRST FLOOR - AREA D	25,800 SF
ZONE 3	LOWER LEVEL - AREA D	330 SF
ZONE 3	MEZZANINE - AREA D	6,100 SF
TOTAL		32,230 SF

KEY PLAN



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MEZZANINE FIRE PROTECTION PLAN - AREA D

DRAWING NUMBER FP-102-D
FIRE PROTECTION

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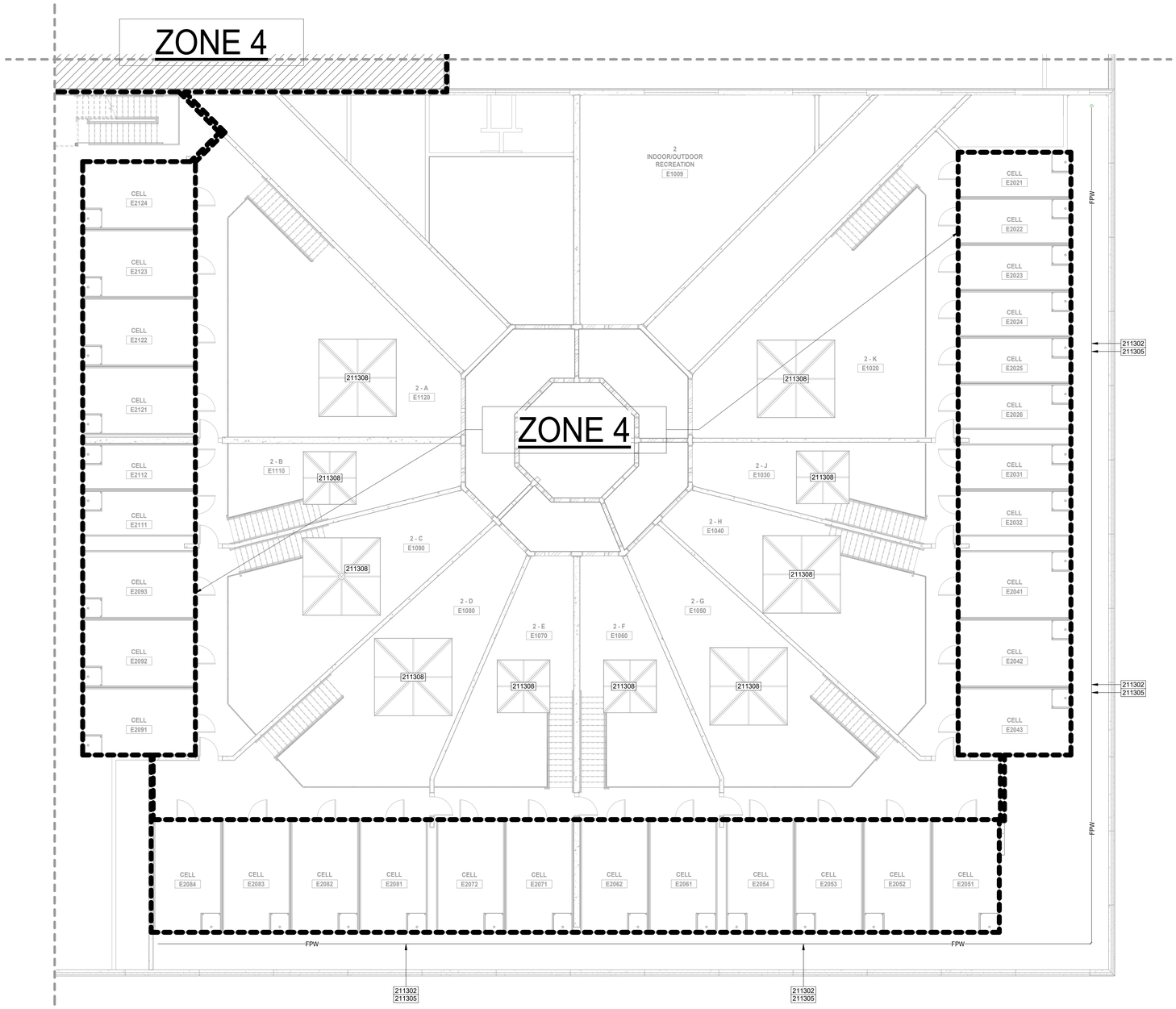

NORTH

1 **MEZZANINE FIRE PROTECTION PLAN - AREA E**
FP-102-E SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. SEE ARCHITECTURAL PLANS FOR SECTIONS SHOWING ELEVATIONS.
2. REFER TO DRAWINGS FP-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INSTALL ALL EQUIPMENT, FIXTURES, AND ASSOCIATED ACCESSORIES PER MANUFACTURER RECOMMENDATION.
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FIRE PROTECTION KEYNOTES

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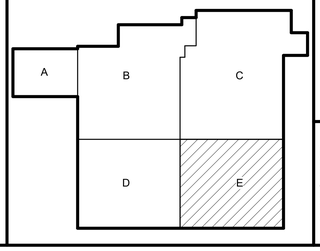
211308 PROVIDE HIGH TEMPERATURE SPRINKLER HEADS TO PROTECT SKYLIGHT WELL PER NFPA-13 REQUIREMENTS.

ZONE 4 SF		
ZONE	LEVEL	AREA
ZONE 4	FIRST FLOOR - AREA E	23,100 SF
ZONE 4	LOWER LEVEL - AREA E	330 SF
ZONE 4	MECH. MEZZANINE - AREA B & C	6,900 SF
ZONE 4	MEZZANINE - AREA E	6,100 SF
TOTAL		36,430 SF

KEY PLAN



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A NEW
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TERRE HAUTE, INDIANA

MEZZANINE FIRE PROTECTION PLAN - AREA E

DRAWING NUMBER
FP-102-E
FIRE PROTECTION

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PLUMBING SYMBOLS

A	COMPRESSED AIR
DCW	DOMESTIC COLD WATER
DCW(R)	DOMESTIC COLD WATER - RAW
DCW(RO)	DOMESTIC COLD WATER - REVERSE OSMOSIS
G	NATURAL GAS
HW	DOMESTIC HOT WATER
HWR	HOT WATER RETURN
STM (PD)	PERIMETER DRAINAGE
SAN	SANITARY ABOVE GROUND
SAN	SANITARY BELOW GROUND
STM	STORM ABOVE GROUND
STM	STORM BELOW GROUND
V	ABOVE GROUND VENT
V	BELOW GROUND VENT
	BALL VALVE
	CALIBRATED BALANCING VALVE
	CHECK VALVE
	SINGLE LINE - PIPE DROP
	SINGLE LINE - PIPE RISE
	SINGLE LINE - PIPE RISE TEE
	SINGLE LINE - PIPE DROP TEE
	TWO LINE - PIPE DROP
	TWO LINE - PIPE RISE

PLUMBING ABBREVIATIONS

ACS	ABOVE CEILING SPACE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	AIR GAP
BT	BRINE TANK
BV	BALANCING VALVE
CO	CLEAN OUT
CONT	CONTINUATION
CTW	CLOSE TO WALL
CV	CHECK VALVE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DN	DOWN
DWG	DRAWING
ELEV	ELEVATION
FFE	FINISHED FLOOR ELEVATION
FFB	FINISHED FLOOR BELOW
G	NATURAL GAS
GPM	GALLONS PER MINUTE
IE	INVERT ELEVATION
LKW	LAVATORY KITCHEN WASTE
MAX	MAXIMUM
MIN	MINIMUM
OS&Y	OUTSIDE SCREW & YOKE
PHE	PLATE HEAT EXCHANGER
SAN	SAN
STM	STORM
SQFT	SQUARE FEET
TS	TEMPERATURE SENSOR
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE

EQUIPMENT ABBREVIATIONS

CB	CATCH BASIN
CO	CLEAN OUT
CU	COMBINATION UNIT
CVC	CELL VALVE CONTROLLER
DT	DETOX TOILET
DWBP	DOMESTIC WATER BOOSTER PUMP
EEW	EMERGENCY EYEWASH STATION
EEWS	EMERGENCY EYEWASH & SHOWER STATION
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FWD	FOOD WASTE DISPOSER
GI	GREASE INTERCEPTOR
GM	GAS METER
HB	HOSE BIBB / WALL HYDRANT
HR	HOSE REEL
HWRP	HOT WATER RECIRCULATION PUMP
LAV	LAVATORY
LI	LINT INTERCEPTOR
MB	MOP BASIN
OB	OUTLET BOX
OI	OIL INTERCEPTOR
ORD	SECONDARY ROOF DRAIN
RD	ROOF DRAIN
RH	ROOK HYDRANT
RO	REVERSE OSMOSIS
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
SH	SHOWER
SK	SINK
SP	SUMP PUMP
TD	TRENCH DRAIN
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WS	WATER SOFTENER

DRAFTING SYMBOLS

XXXXX	KEY NOTES
X / PX.X	DETAIL REFERENCE NUMBER / SHEET ON WHICH DETAIL IS FOUND
X / PX.X	DETAIL REFERENCE NUMBER / SHEET ON WHICH DETAIL IS FOUND

PLUMBING GENERAL NOTES

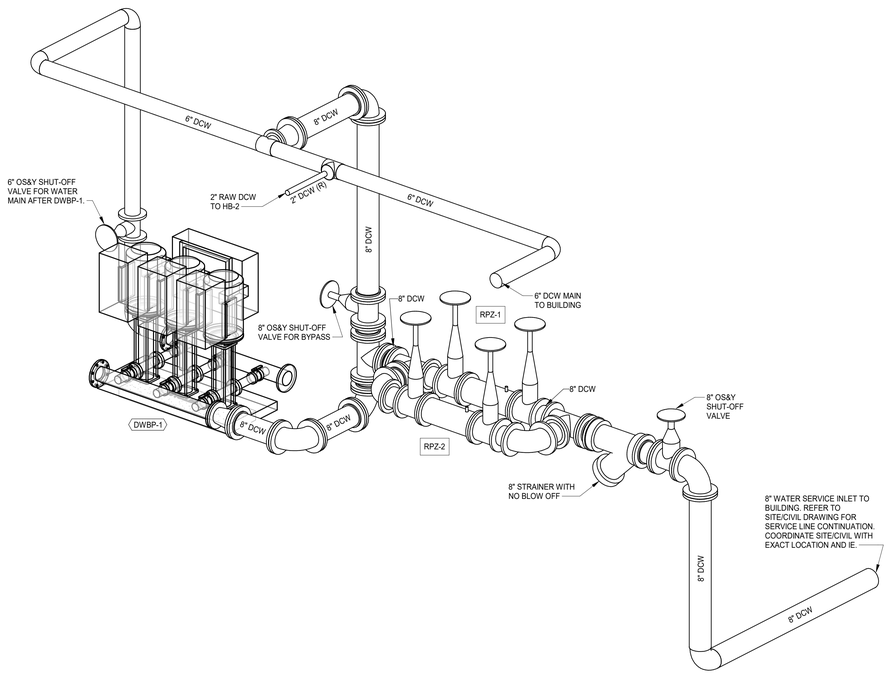
1. INSTALLATION OF PLUMBING FIXTURES AND ACCESSORIES, INCLUDING FLUSH CONTROL VALVES INTENDED FOR PEOPLE WITH DISABILITIES, SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
2. INSTALLATION OF PLUMBING PIPING SHALL BE FULLY COORDINATED WITH STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS TO AVOID CONFLICT.
3. NO PLUMBING (WATER, DRAINS, VENT, OR GAS PIPING) SHALL BE INSTALLED DIRECTLY ABOVE ANY ELECTRICAL PANELS. COORDINATE WITH OTHER DIVISIONS BEFORE PROCEEDING WITH INSTALLATION.
4. IF NON DESIGN BASE EQUIPMENT IS SELECTED, CONTRACTOR SHALL BEAR ADDITIONAL COSTS FOR MODIFICATIONS TO THE ORIGINAL SYSTEM(S).
5. PROVIDE WATER HAMMER ARRESTERS AS INDICATED AND AT PLUMBING FIXTURES AND GROUPS OF PLUMBING FIXTURES THAT ARE SUBJECT TO WATER HAMMER. SELECT ARRESTERS IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE STANDARD.
6. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR AND EQUIPMENT PERMIT FEES, REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL PLUMBING SYSTEM AS INDICATED IN THE CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS.
7. ALL PLUMBING SERVICES GOING INTO THE BUILDING AND LEAVING THE BUILDING SHALL BE CONNECTED TO THE SITE UTILITIES. COORDINATE WITH SITE UTILITIES DWGS. COORDINATE ALL EXTERIOR UNDERGROUND PLUMBING WORK WITH THE SITE UTILITIES BEFORE COMMENCING WORK. COORDINATE ALL UNDERGROUND PIPING WITH FOUNDATION DRAWINGS.
8. ALL PLUMBING WORK SHALL BE IN CONFORMANCE WITH THE INTERNATIONAL PLUMBING CODE, LATEST EDITION ADOPTED BY THE STATE OF INDIANA WITH INDIANA AMENDMENTS, MUNICIPAL OR CITY CODES, AND THE AUTHORITY HAVING JURISDICTION.
9. INSTALL BALL VALVE CLOSE TO WATER MAIN ON EACH BRANCH AND RISER SERVING PLUMBING EQUIPMENT AND FIXTURES.
10. REFERENCE SECTIONS AND RISER/ISOMETRICS FOR ADDITIONAL INFORMATION ON PIPE SIZES NOT SHOWN IN PLAN VIEWS.
11. PIPING SERVING FIXTURES IN WALK-THRU CHASES SHALL EXTEND NO MORE THAN 18" FROM THE CELL WALL. COORDINATE SLEEVING REQUIREMENTS FOR PAN JOISTS WHERE REQUIRED WITH STRUCTURAL DRAWINGS.
12. REFER TO ARCHITECTURAL ROOF DRAWINGS FOR ROOF DIMENSIONS.
13. ELECTRONIC WATER MANAGEMENT SYSTEM TO BE PROVIDED PER SPECIFICATION SECTION 224600. COMPONENTS SUCH AS CELL CONTROL VALVES (CVCs) HAVE BEEN SHOWN ON DRAWINGS AND ARE BASED ON THE WILLOUGHBY WMS II SYSTEM. COMPONENTS ARE TO BE LOCATED PER SYSTEM MANUFACTURER RECOMMENDATIONS. COMPONENTS ASSOCIATED WITH SECURITY PLUMBING FIXTURES (ELECTRONIC FLUSH VALVES AND SOLENOID VALVES) SHALL BE COORDINATED WITH PROVIDED SYSTEM.
14. WATER MANAGEMENT SYSTEM SERVER AND MAIN COMPUTER ARE TO BE LOCATED IN THE MASTER CONTROL CENTER. THE SYSTEM SHALL BE INTERFACED WITH THE BOOKING COUNTER AND SUBCONTROL ROOM CONTROL COMPUTERS TO ALLOW FOR ON/OFF CAPABILITY OF THE WATER TO THE FIXTURES IN THE ASSOCIATED BOOKING COUNTER OR SUBCONTROL ROOM.
15. PROVIDE SIZES TO FIXTURES AS INDICATED ON PLANS, RISERS, AND SECTIONS. IF SIZE IS NOT INDICATED, PROVIDE SIZE SHOWN ON PLUMBING FIXTURE SCHEDULE.
16. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR FIRE PROTECTION ITEMS MAY BE REQUIRED. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE AND SECURITY RATING OF THE WALL ASSEMBLY.

PLUMBING BASIS OF DESIGN

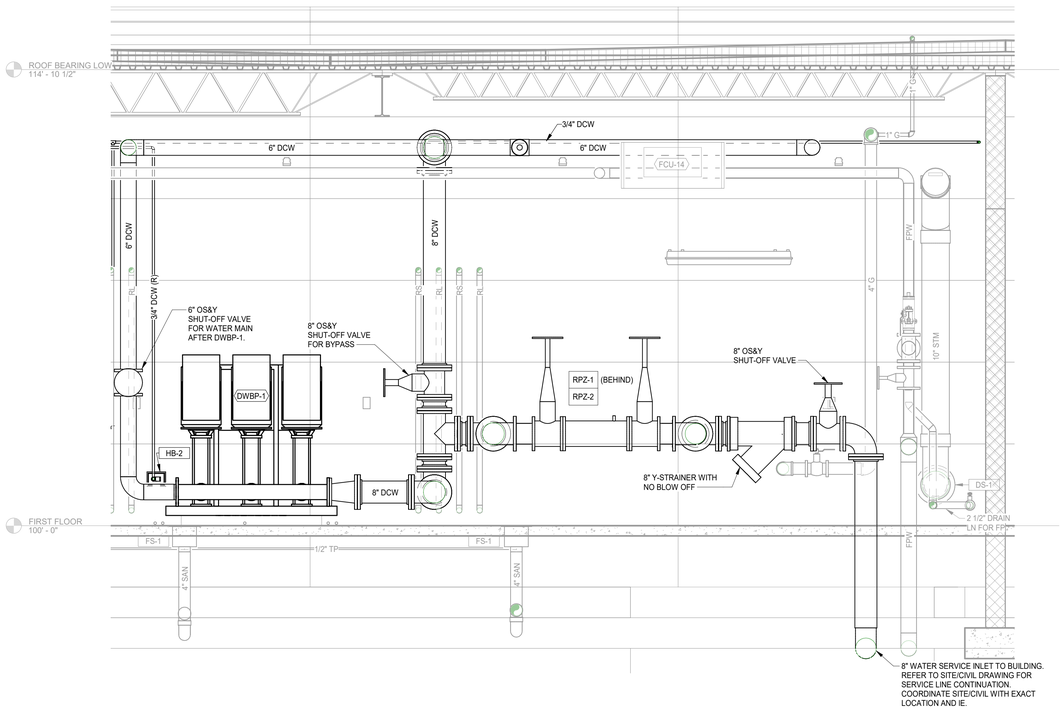
SANITARY	1,553	DFU'S
STORM (ROOF)	155,000	S.F.
COLD WATER	1,697	WSFU'S
HOT WATER	482	WSFU'S
GAS	17,550	CFH

REDUCE PRESSURE DETECTORY ASSEMBLY BACKFLOW PREVENTER SCHEDULE

TAG		DESCRIPTION	MANUFACTURER	COMMENTS
RPZ	1	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER: ASSE 1013 APPROVED. MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL, THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM.	ZURN WILKENS MODEL 375ADA-6" OR EQUIVALENT	INSTALL PER MFGR AND WATER UTILITY REQ'S ■ 15 PSI @ 2200 GPM.
RPZ	2	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER: ASSE 1013 APPROVED. MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL, THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM.	ZURN WILKENS MODEL 375ADA-6" OR EQUIVALENT	INSTALL PER MFGR AND WATER UTILITY REQ'S ■ 15 PSI @ 2200 GPM.
RPZ	3	REDUCED PRESSURE DETECTORY ASSEMBLY BACKFLOW PREVENTER: ASSE 1013 APPROVED. INCLUDES METERED BY-PASS TO DETECT LEAKS AND UNAUTHORIZED WATER USE. MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL, THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM.	ZURN WILKENS MODEL 375ADA-2" OR EQUIVALENT	INSTALL PER MFGR REQ'S. ■ 10 PSI.



2 P-001 **DOMESTIC WATER ENTRANCE ISOMETRICS**
SCALE: N.T.S.



1 P-001 **DOMESTIC WATER ENTRANCE SECTION**
SCALE: 1/2" = 1'-0"

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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: KB CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

DRAWING NUMBER P-001
PLUMBING

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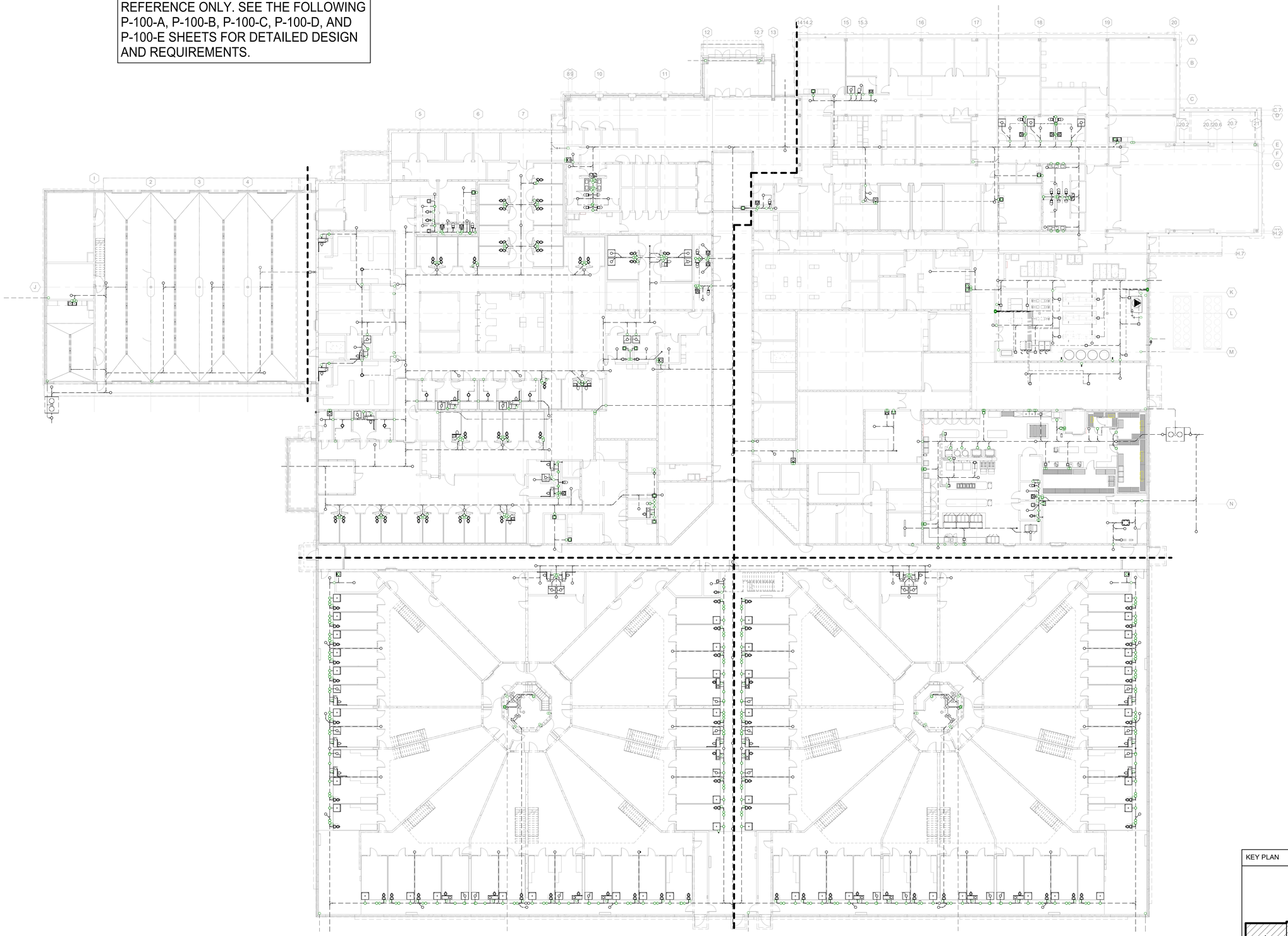
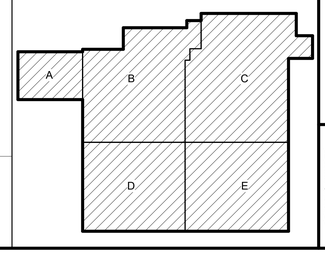
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING P-100-A, P-100-B, P-100-C, P-100-D, AND P-100-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



NORTH

1 / P-100 **UNDERFLOOR PLUMBING PLAN - OVERALL**
SCALE: 1/16" = 1'-0"

KEY PLAN



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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

UNDERFLOOR PLUMBING PLAN - OVERALL

DRAWING NUMBER
P-100
PLUMBING

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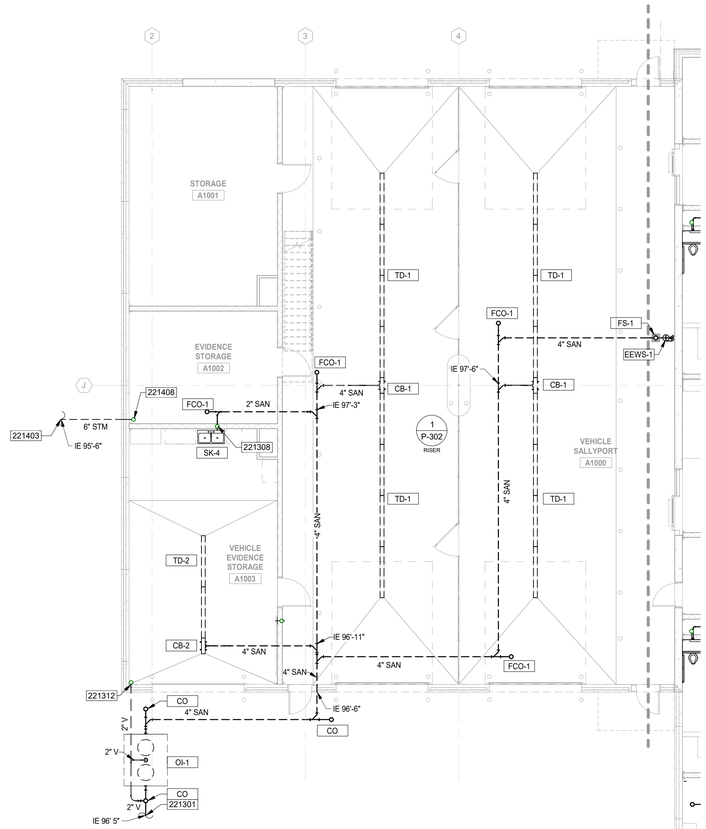
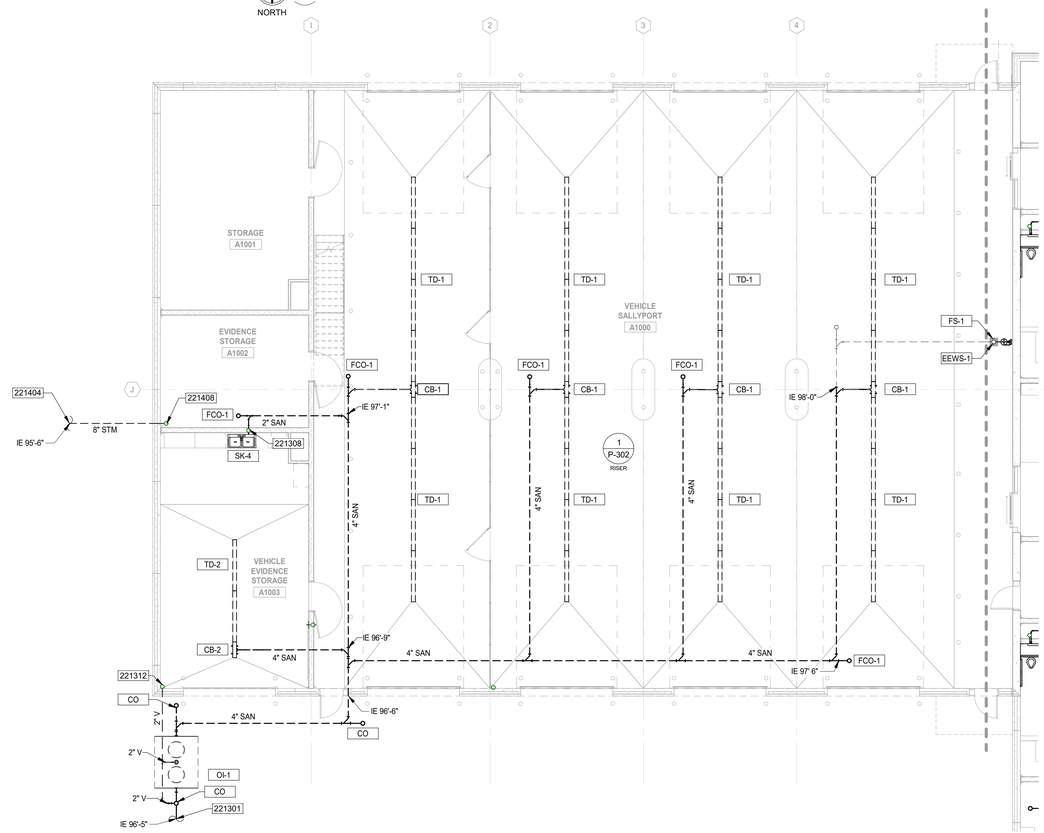


2 ALTERNATE BID - UNDERFLOOR PLUMBING PLAN - AREA A
P-100-A SCALE: 1/8" = 1'-0"

NORTH



1 BASE BID - UNDERFLOOR PLUMBING PLAN - AREA A
P-100-A SCALE: 1/8" = 1'-0"

NORTH

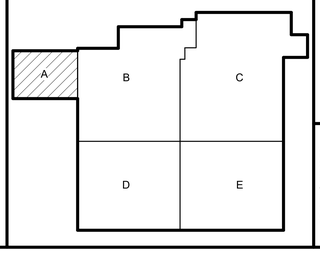
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221301	4" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221308	1-1/2" SAN DN AND 1-1/4" V UP.
221312	2" V UP.
221403	6" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221404	8" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221408	8" STM FROM ABOVE.

KEY PLAN



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PROFESSIONAL ENGINEER
9/5/19

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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

UNDERFLOOR PLUMBING PLAN - AREA A

DRAWING NUMBER P-100-A

PLUMBING

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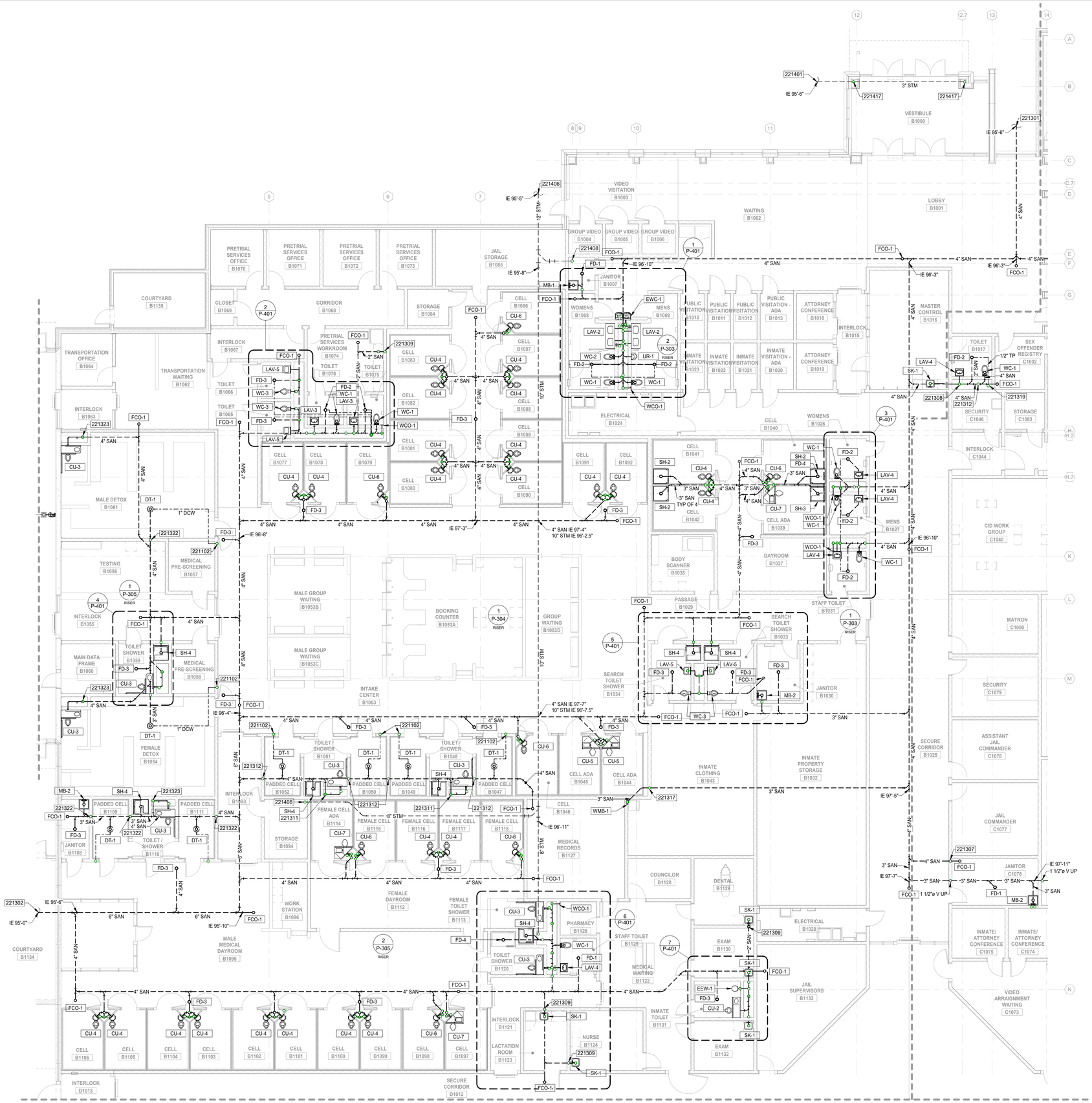

1 UNDERFLOOR PLUMBING PLAN - AREA B
P-100-B SCALE: 1/8" = 1'-0"

NORTH

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GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221102 1" DCW FROM REMOTE FLUSH VALVE WITH BOX ABOVE.

221301 4" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.

221302 6" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.

221307 4" SAN DN FROM B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.

221308 1-1/2" SAN DN AND 1-1/4" V UP.

221309 1-1/2" SAN DN AND 1-1/2" V UP.

221311 4" SAN DN AND 2" V UP.

221312 2" V UP.

221317 1-1/2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.

221319 1/2" TP DN FROM ABOVE.

221322 3" V UP.

221323 4" SAN DN AND 3" V UP.

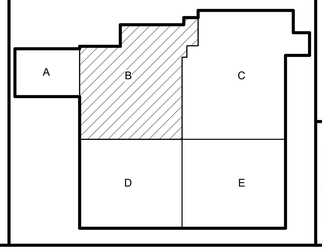
221401 3" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.

221406 12" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.

221408 8" STM FROM ABOVE.

221417 3" STM FROM RD-2.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

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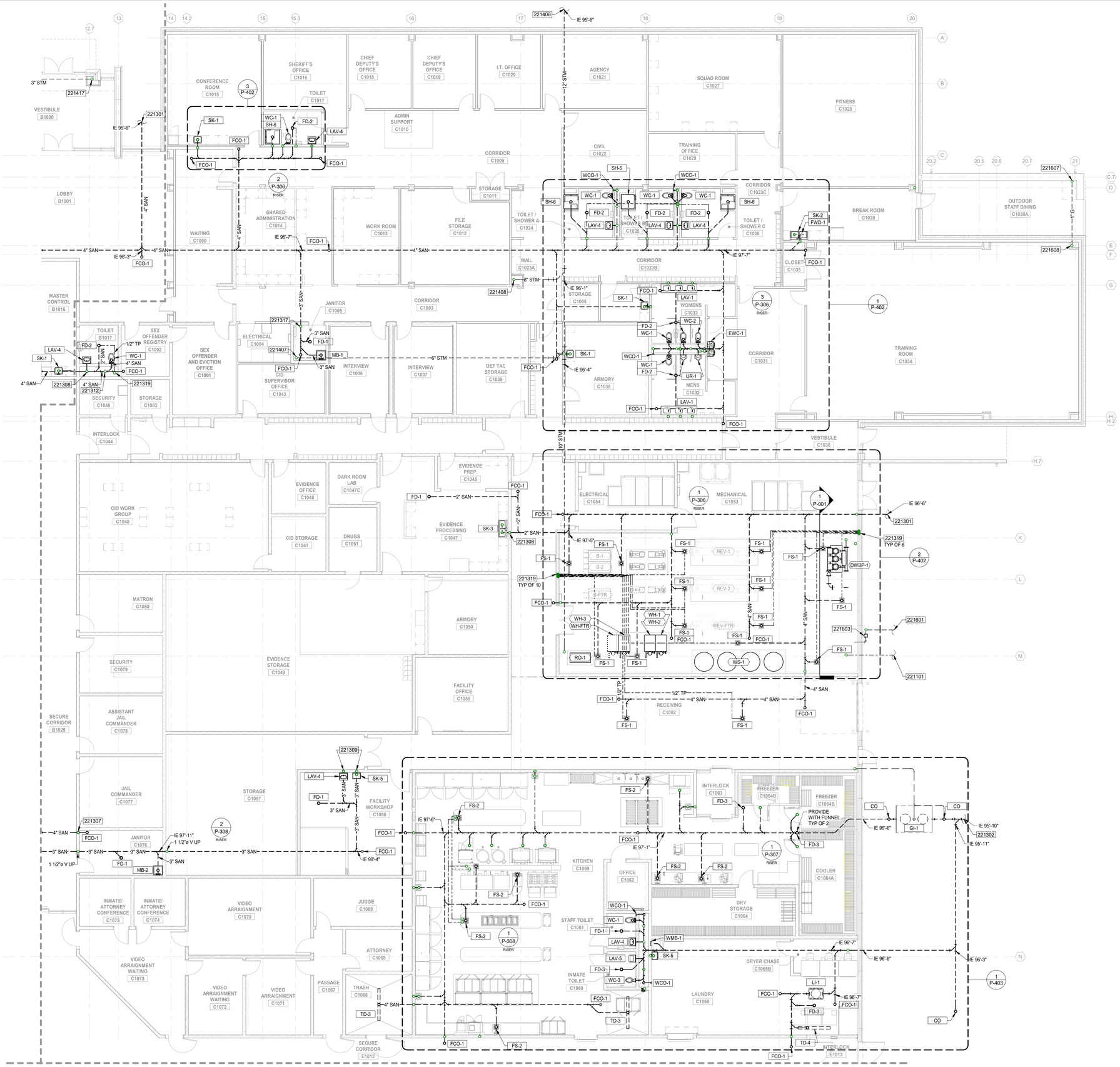
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

UNDERFLOOR PLUMBING PLAN - AREA B

DRAWING NUMBER P-100-B

PLUMBING



1 UNDERFLOOR PLUMBING PLAN - AREA C
P-100-C SCALE: 1/8" = 1'-0"

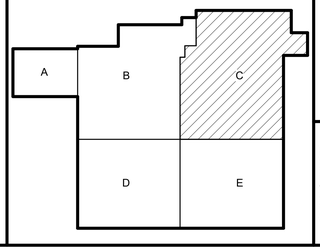
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221101	8" WATER SERVICE TO THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SERVICE LINE CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221301	4" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221302	6" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221307	4" SAN DN FROM B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.
221308	1-1/2" SAN DN AND 1-1/4" V UP.
221309	1-1/2" SAN DN AND 1-1/2" V UP.
221312	2" V UP.
221317	1-1/2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221319	1/2" TP DN FROM ABOVE.
221406	12" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221407	6" STM FROM ABOVE.
221408	8" STM FROM ABOVE.
221417	3" STM FROM RD-2.
221601	4" G TO THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SERVICE LINE CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221603	GAS METER BY UTILITY COMPANY.
221607	1" GAS UP FOR OWNER PROVIDED GRILLE. REFER TO P-101-C FOR CONTINUATION.
221608	1" GAS DN FROM ROOF.

KEY PLAN



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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

UNDERFLOOR PLUMBING PLAN - AREA C

DRAWING NUMBER P-100-C
PLUMBING

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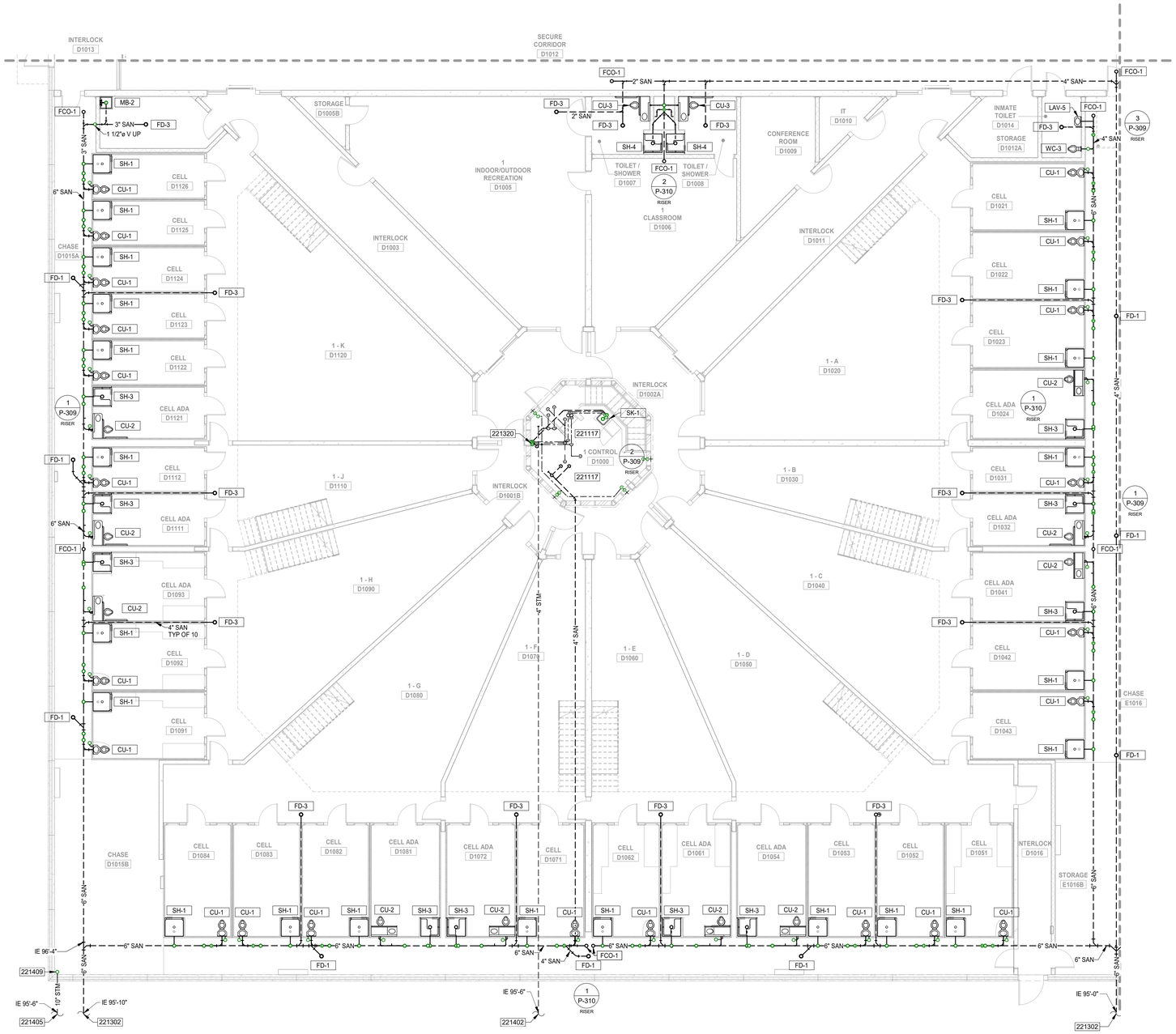
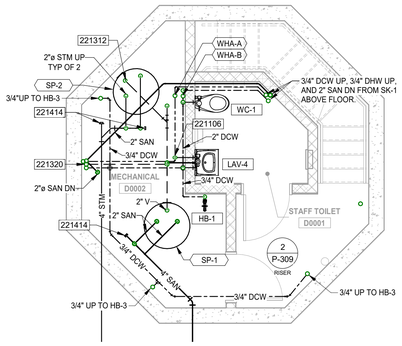
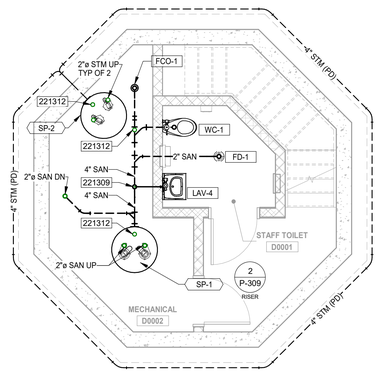


1 P-100-D **UNDERFLOOR PLUMBING PLAN - AREA D**
SCALE: 1/8" = 1'-0"
NORTH



3 P-100-D **LOWER LEVEL PLUMBING PLAN AREA D**
SCALE: 1/4" = 1'-0"
NORTH



2 P-100-D **LOWER LEVEL UNDERFLOOR PLUMBING PLAN AREA D**
SCALE: 1/4" = 1'-0"
NORTH

GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
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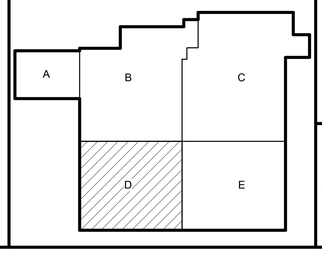
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221106	3/4" DCW AND DHW DOWN.
221117	PROVIDE PIPING SHOWN IN THIS AREA BELOW 100'-0" FIRST FLOOR ELEVATION. REFER TO 3/P-100-D FOR COMMENTS.
221302	6" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221309	1-1/2" SAN DN AND 1-1/2" V UP.
221312	2" V UP.
221320	2" AND 1 1/2" V, 2" DCW AND 3/4" DHW TO BE CONTAINED IN PROVIDED CHASE WAY ABOVE.
221402	4" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221405	10" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221409	10" STM FROM ABOVE.
221414	PROVIDE CO.

KEY PLAN



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DRAWN: KB
DESIGNED: KB
CHK'D: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
UNDERFLOOR PLUMBING PLAN - AREA D

DRAWING NUMBER P-100-D
PLUMBING

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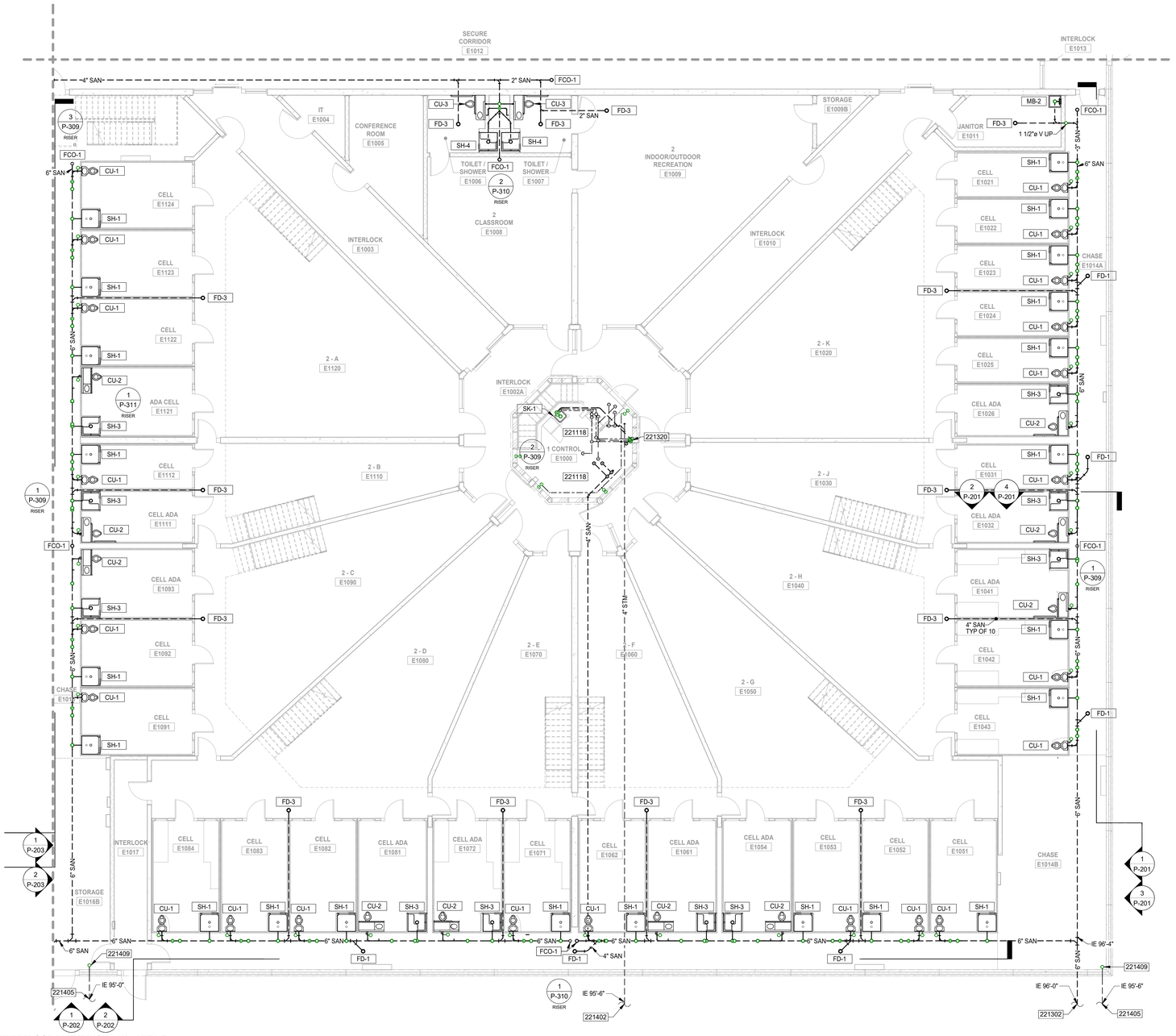
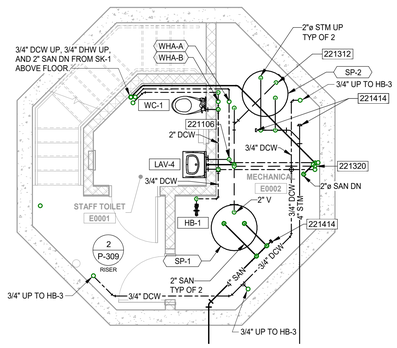
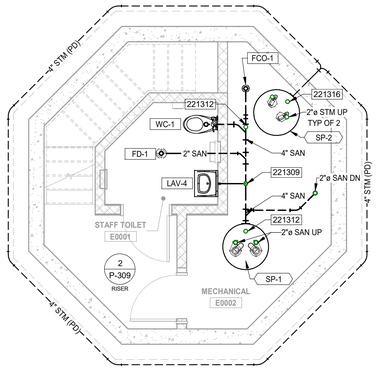


1 P-100-E **UNDERFLOOR PLUMBING PLAN - AREA E**
SCALE: 1/8" = 1'-0"
NORTH



3 P-100-E **LOWER LEVEL PLUMBING PLAN AREA E**
SCALE: 1/4" = 1'-0"
NORTH



2 P-100-E **LOWER LEVEL UNDERFLOOR PLUMBING PLAN AREA E**
SCALE: 1/4" = 1'-0"
NORTH

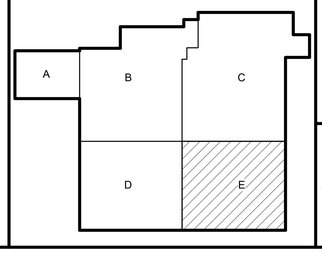
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221106	3/4" DCW AND DHW DOWN.
221118	PROVIDE PIPING SHOWN IN THIS AREA BELOW 100'-0" FIRST FLOOR ELEVATION. REFER TO 3/P-100-E FOR COMMENTS.
221302	6" SAN OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221309	1-1/2" SAN DN AND 1-1/2" V UP.
221312	2" V UP.
221316	2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221320	2" AND 1 1/2" V, 2" DCW AND 3/4" DHW TO BE CONTAINED IN PROVIDED CHASE WAY ABOVE.
221402	4" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221405	10" STM OUT FROM THE BUILDING. REFER TO SITE/CIVIL DRAWING FOR SAN ROUTING CONTINUATION. COORDINATE SITE/CIVIL WITH EXACT LOCATION AND IE.
221409	10" STM FROM ABOVE.
221414	PROVIDE CO.

KEY PLAN



DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: KB | CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

UNDERFLOOR PLUMBING PLAN - AREA E

DRAWING NUMBER P-100-E
PLUMBING

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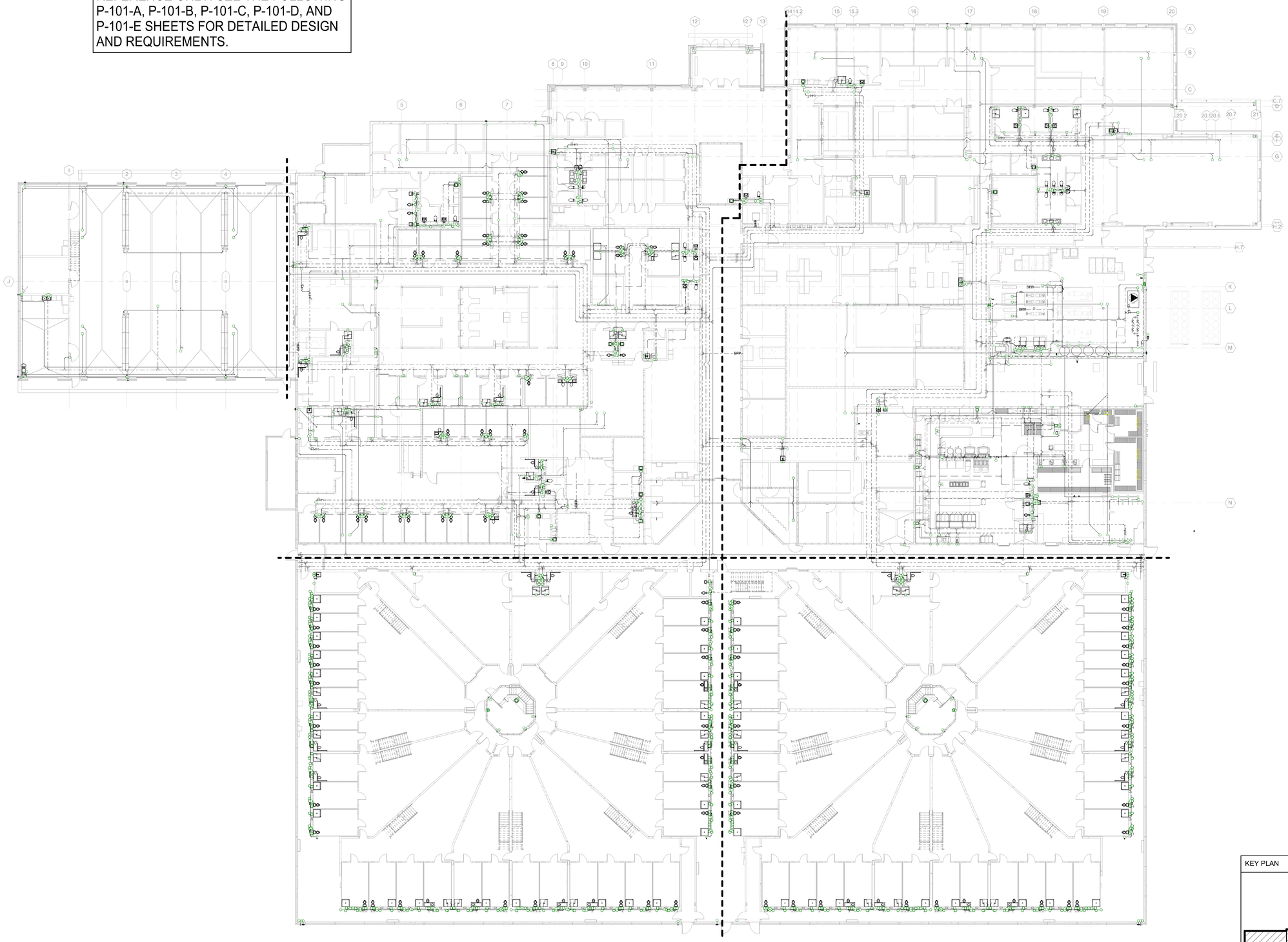
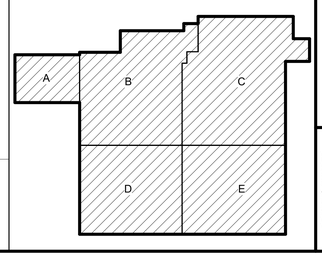
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING P-101-A, P-101-B, P-101-C, P-101-D, AND P-101-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



1 P-101 FIRST FLOOR PLUMBING PLAN - OVERALL
SCALE: 1/16" = 1'-0"
NORTH

KEY PLAN



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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR PLUMBING PLAN - OVERALL

DRAWING NUMBER P-101
PLUMBING

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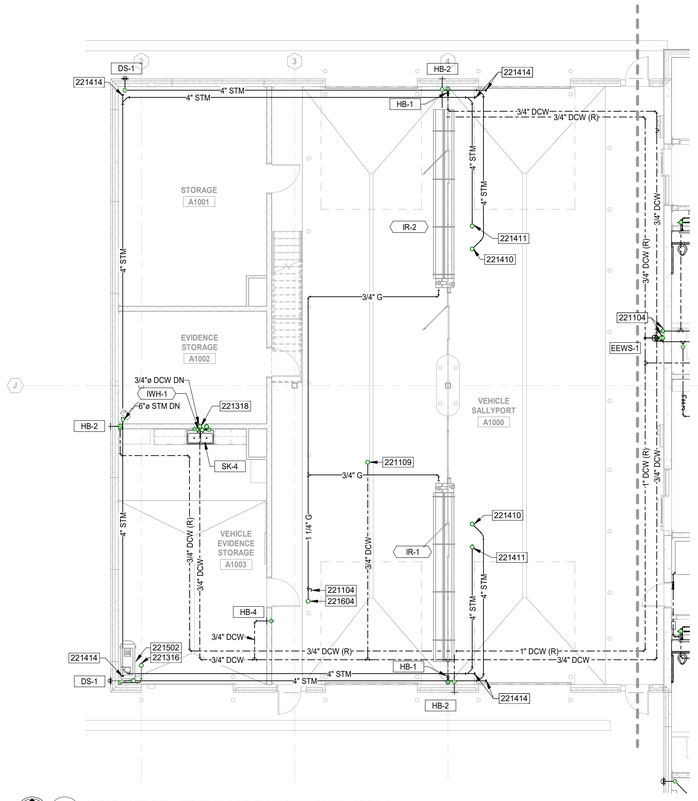
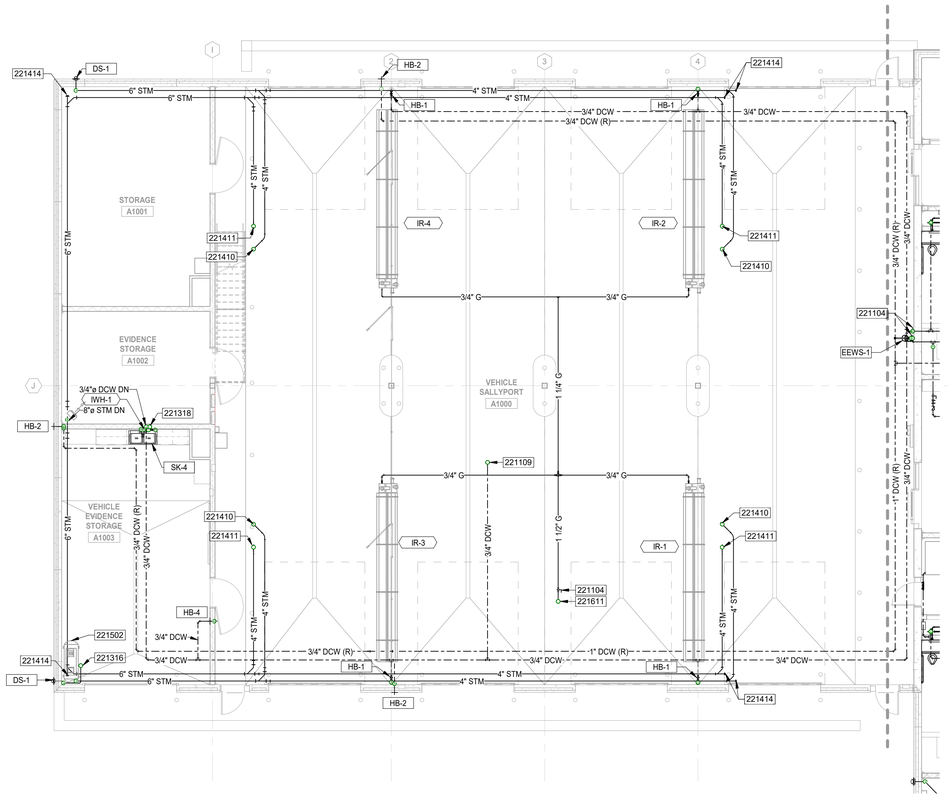


NORTH

2 P-101-A **ALTERNATE BID - FIRST FLOOR PLUMBING PLAN - AREA A**
SCALE: 1/8" = 1'-0"



NORTH

1 P-101-A **BASE BID - FIRST FLOOR PLUMBING PLAN - AREA A**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221104	PROVIDE SHUT-OFF VALVE.
221109	3/4" DCW UP TO ROOF FOR RH-1.
221316	2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221318	1-1/4" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221410	4" STM DN FROM ORD-1.
221411	4" STM DN FROM RD-1.
221414	PROVIDE CO.
221502	AIR COMPRESSOR PROVIDED BY OWNER.
221604	1-1/4" G DN FROM ROOF.
221611	1-1/2" G DN FROM ROOF.

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JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
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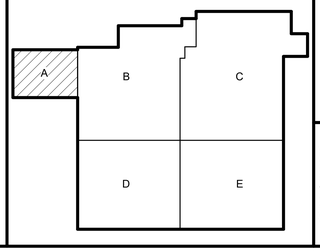
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR & MEZZANINE PLUMBING PLAN - AREA A

KEY PLAN



DRAWING NUMBER
P-101-A
PLUMBING

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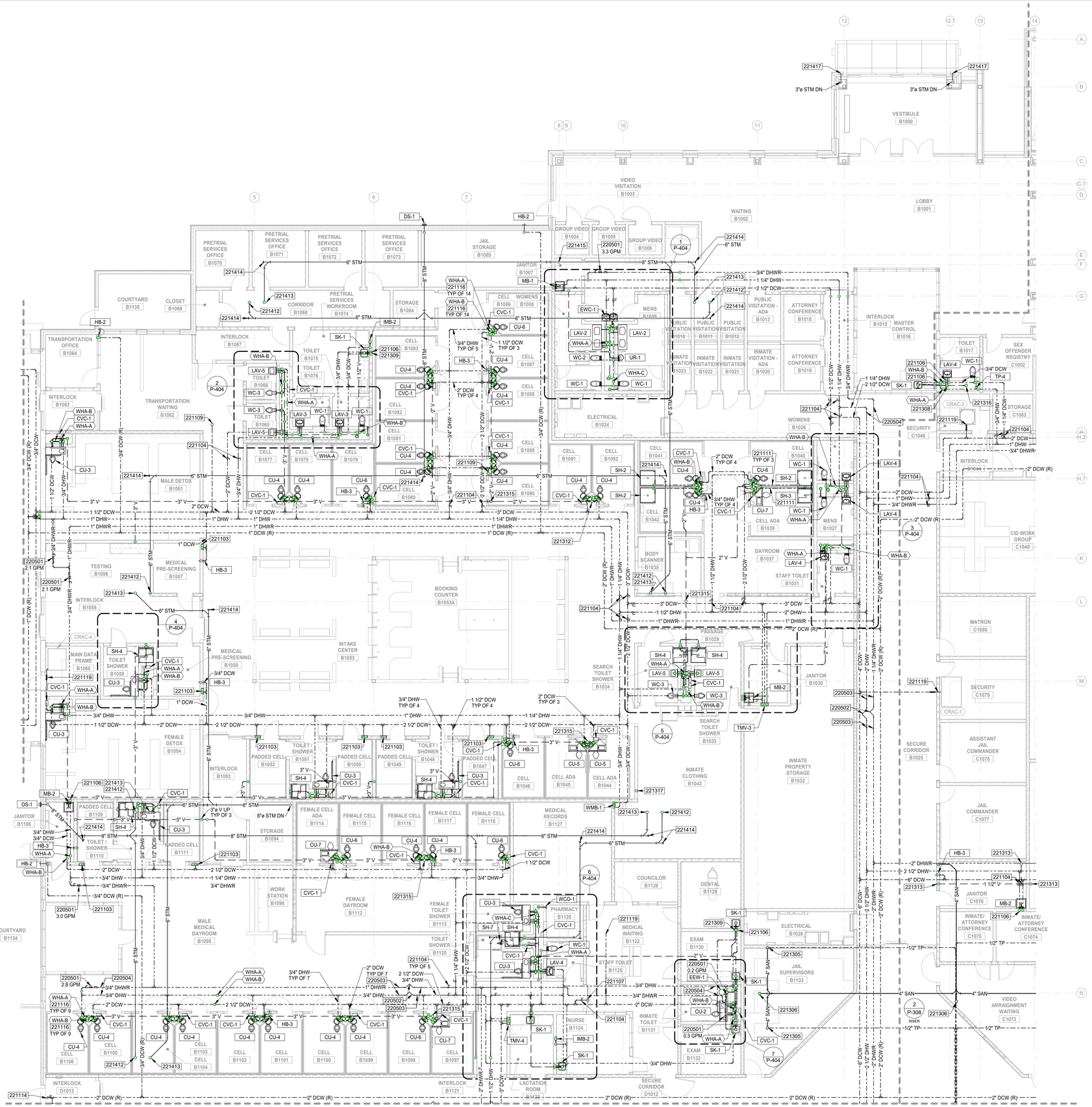

1 FIRST FLOOR PLUMBING PLAN - AREA B
P-101-B SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
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8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

220501 DHWR BALANCING VALVE. PROVIDE SHUT-OFF, STRAINER AND CHECK VALVES DOWNSTREAM OF BALANCING VALVE. BALANCE TO GPM INDICATED ON PLANS.

220502 PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.

220503 PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.

220504 PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.

221103 PROVIDE 1" DCW FOR REMOTE FLUSH VALVE. 1" DCW TO BE ROUTED FROM REMOTE FLUSH VALVE TO DT-1. REFER TO P-100 FOR 1" DCW ROUTING AND DT-1 LOCATION.

221104 PROVIDE SHUT-OFF VALVE.

221106 3/4" DCW AND DHW DOWN.

221107 3/4" DCW UP TO B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR. REFER TO P-102-BC FOR PIPE CONTINUATION.

221109 3/4" DCW UP TO ROOF FOR RH-1.

221111 PROVIDE WITH FLEX PIPE TO CONNECT FROM 3/4" DHW PIPE IN CHASE TO SH FIXTURE.

221114 PIPE CAPPED FOR FUTURE EXPANSION. PROVIDE SHUT-OFF VALVE.

221116 PROVIDE WATER HAMMER ARRESTOR ON DCW AND DHW TYPICAL OF EACH CHASE.

221119 1/2"DCW TO HUMIDIFIER ON CRAC UNIT. PROVIDE 1/2" BACKFLOW PREVENTER. REFER TO MECHANICAL PLANS FOR EXACT LOCATION.

221305 4" SAN DN FROM FS-1 IN THE B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.

221306 4" SAN DN FROM FCO-1 IN THE B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.

221308 1-1/2" SAN DN AND 1-1/4" V UP.

221309 1-1/2" SAN DN AND 1-1/2" V UP.

221312 2" V UP.

221313 1-1/2" V UP.

221315 3" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.

221316 2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.

221317 1-1/2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.

221409 10" STM FROM ABOVE.

221412 6" STM DN FROM ORD-1.

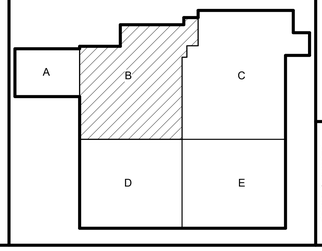
221413 6" STM DN FROM RD-1.

221414 PROVIDE CO.

221415 8" STM DN.

221417 3" STM FROM RD-2.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
6/5/19

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PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR PLUMBING PLAN - AREA B

DRAWING NUMBER P-101-B

PLUMBING

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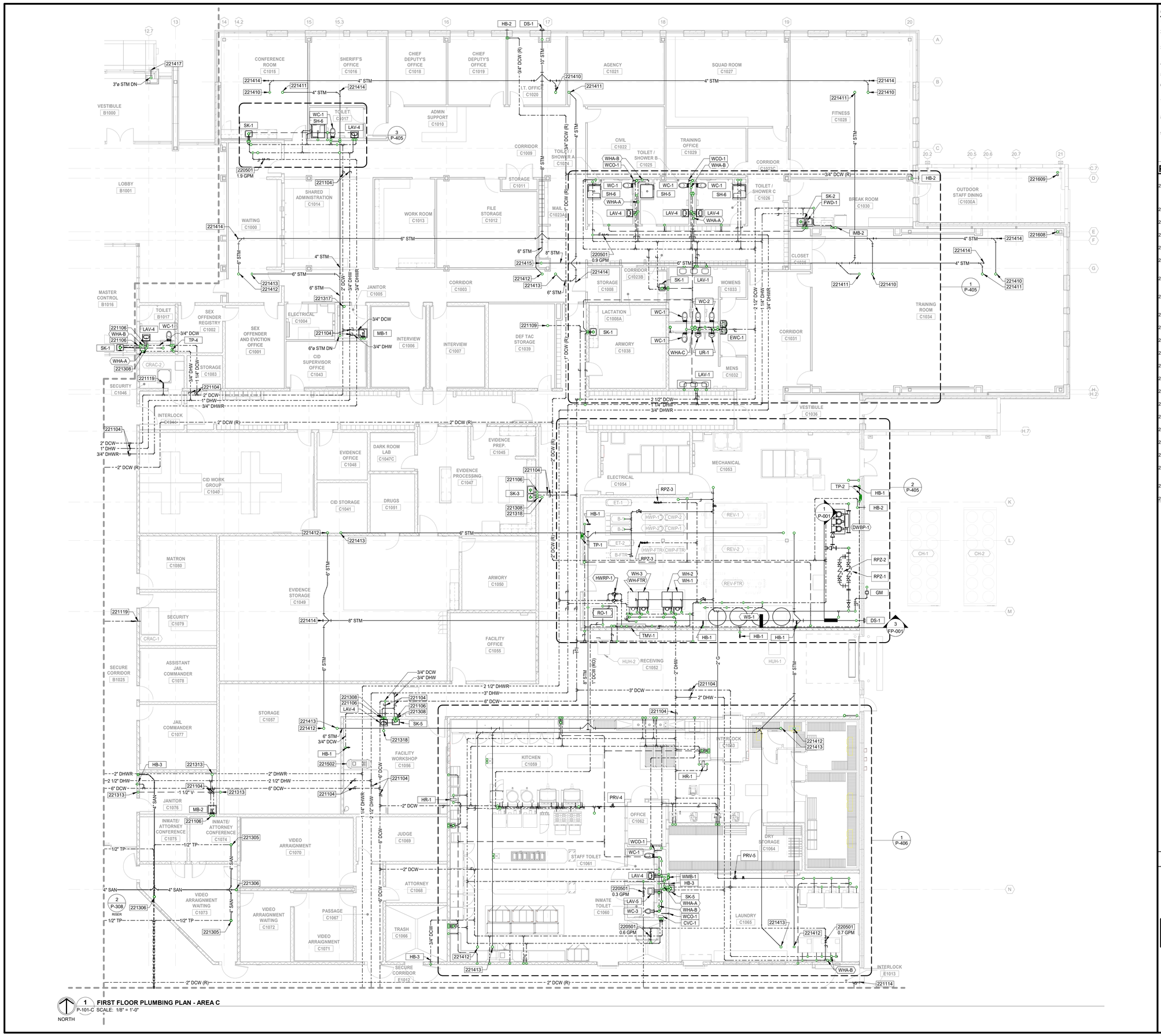


1 FIRST FLOOR PLUMBING PLAN - AREA C
P-101-C SCALE: 1/8" = 1'-0"

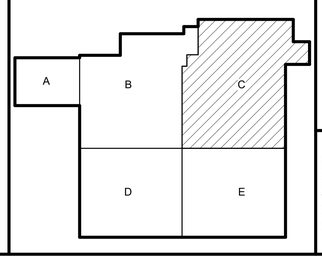
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

220501	DHWR BALANCING VALVE. PROVIDE SHUT-OFF, STRAINER AND CHECK VALVES DOWNSTREAM OF BALANCING VALVE. BALANCE TO GPM INDICATED ON PLANS.
221104	PROVIDE SHUT-OFF VALVE.
221106	3/4" DCW AND DHW DOWN.
221109	3/4" DCW UP TO ROOF FOR RH-1.
221114	PIPE CAPPED FOR FUTURE EXPANSION. PROVIDE SHUT-OFF VALVE.
221119	1/2"DCW TO HUMIDIFIER ON CRAC UNIT. PROVIDE 1/2" BACKFLOW PREVENTER. REFER TO MECHANICAL PLANS FOR EXACT LOCATION.
221305	4" SAN DN FROM FS-1 IN THE B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.
221306	4" SAN DN FROM FCO-1 IN THE B2000 MECHANICAL ROOM ON MECHANICAL MEZZANINE FLOOR.
221308	1-1/2" SAN DN AND 1-1/4" V UP.
221313	1-1/2" V UP.
221317	1-1/2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221318	1-1/4" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221410	4" STM DN FROM ORD-1.
221411	4" STM DN FROM RD-1.
221412	6" STM DN FROM ORD-1.
221413	6" STM DN FROM RD-1.
221414	PROVIDE CO.
221415	8" STM DN.
221417	3" STM FROM RD-2.
221502	AIR COMPRESSOR PROVIDED BY OWNER.
221607	1" GAS UP FOR OWNER PROVIDED GRILLE. REFER TO P-101-C FOR CONTINUATION.
221608	1" GAS DN FROM ROOF.
221609	PROVIDE GAS STUB FOR OUTDOOR GRILLE.

KEY PLAN



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ARCHITECTURE • ENGINEERING • PLANNING
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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
MECHANICAL
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
CHK'D: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER: 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR PLUMBING PLAN - AREA C

DRAWING NUMBER: P-101-C
PLUMBING

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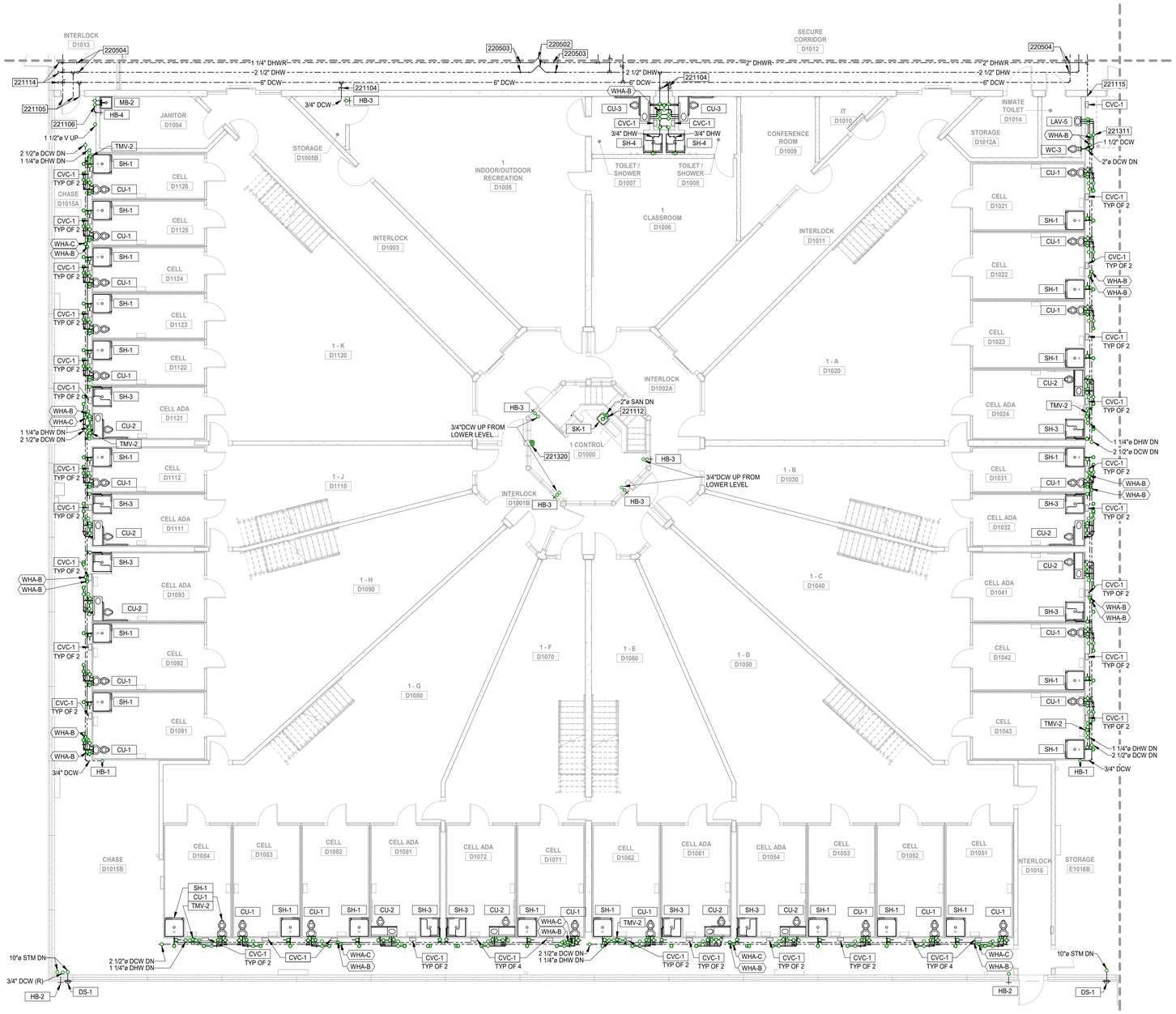

1 P-101-D FIRST FLOOR PLUMBING PLAN - AREA D
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
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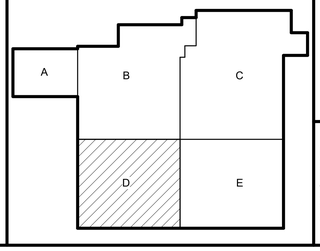
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

220502	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
220503	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
220504	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
221104	PROVIDE SHUT-OFF VALVE.
221105	REFER TO P-102 MEZZANINE FLOOR PLAN FOR DCW AND DHW CONTINUATION.
221106	3/4" DCW AND DHW DOWN.
221112	3/4" DCW AND DHW UP FROM FINISHED FLOOR BELOW. REFER TO P-100 LOWER LEVEL FLOOR PLAN FOR PIPE CONTINUATION.
221114	PIPE CAPPED FOR FUTURE EXPANSION. PROVIDE SHUT-OFF VALVE.
221115	REFER TO P-102 MEZZANINE FLOOR PLAN FOR DHWR CONTINUATION.
221311	4" SAN DN AND 2" V UP.
221320	2" AND 1 1/2" V, 2" DCW AND 3/4" DHW TO BE CONTAINED IN PROVIDED CHASE WAY ABOVE.

KEY PLAN



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A NEW
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TERRE HAUTE, INDIANA

FIRST FLOOR PLUMBING PLAN - AREA D

DRAWING NUMBER P-101-D
PLUMBING

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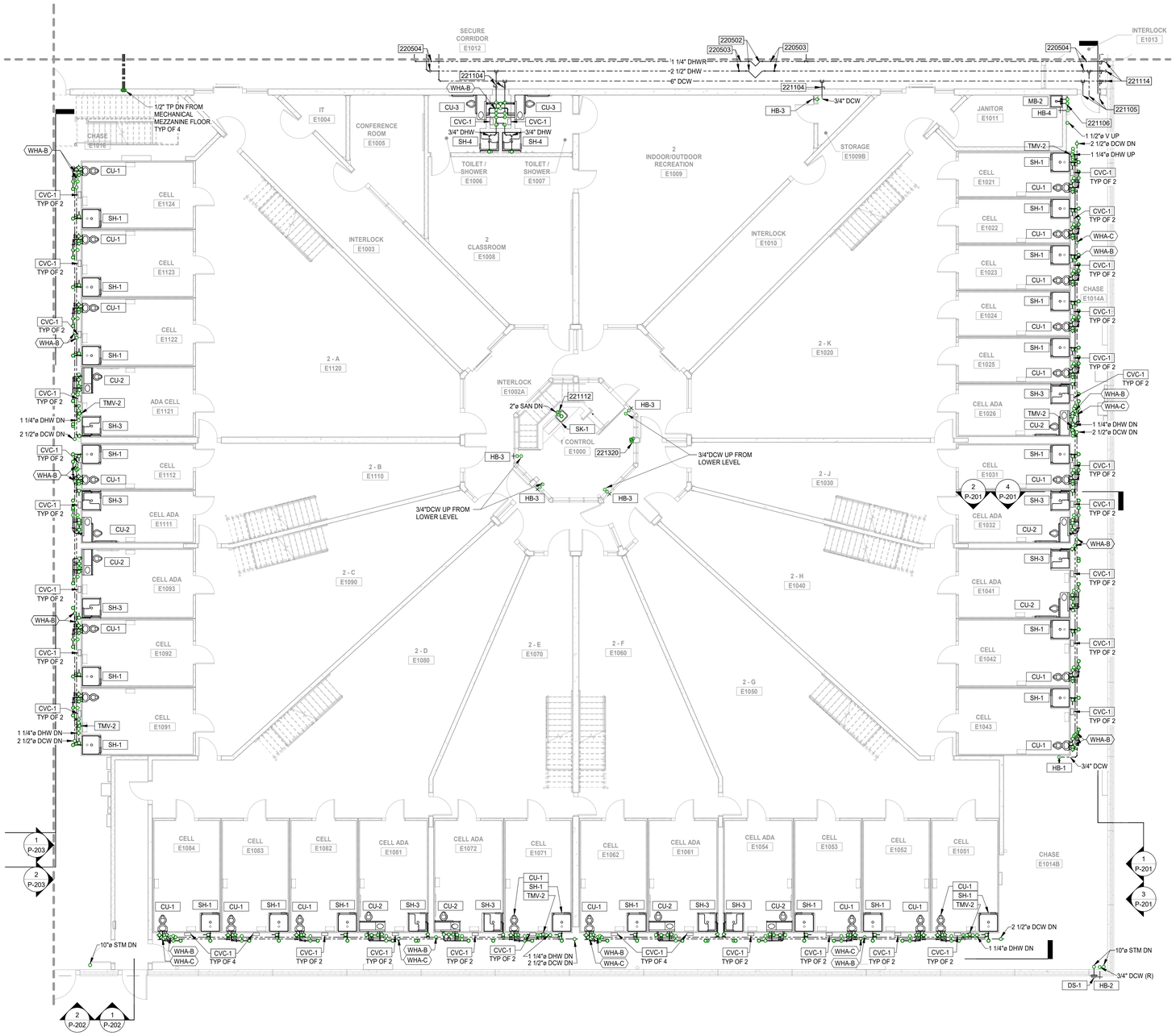


1 P-101-E **FIRST FLOOR PLUMBING PLAN - AREA E**
SCALE: 1/8" = 1'-0"
NORTH

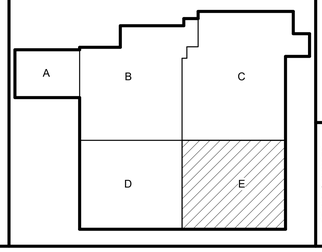
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

220502	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
220503	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
220504	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
221104	PROVIDE SHUT-OFF VALVE.
221105	REFER TO P-102 MEZZANINE FLOOR PLAN FOR DCW AND DHW CONTINUATION.
221106	3/4" DCW AND DHW DOWN.
221112	3/4" DCW AND DHW UP FROM FINISHED FLOOR BELOW. REFER TO P-100 LOWER LEVEL FLOOR PLAN FOR PIPE CONTINUATION.
221114	PIPE CAPPED FOR FUTURE EXPANSION. PROVIDE SHUT-OFF VALVE.
221320	2" AND 1 1/2" V, 2" DCW AND 3/4" DHW TO BE CONTAINED IN PROVIDED CHASE WAY ABOVE.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
APPRVD: JRA
DATE: September 5, 2019
CHK'D: JRA
PROJECT NUMBER 16663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR PLUMBING PLAN - AREA E

DRAWING NUMBER
P-101-E
PLUMBING

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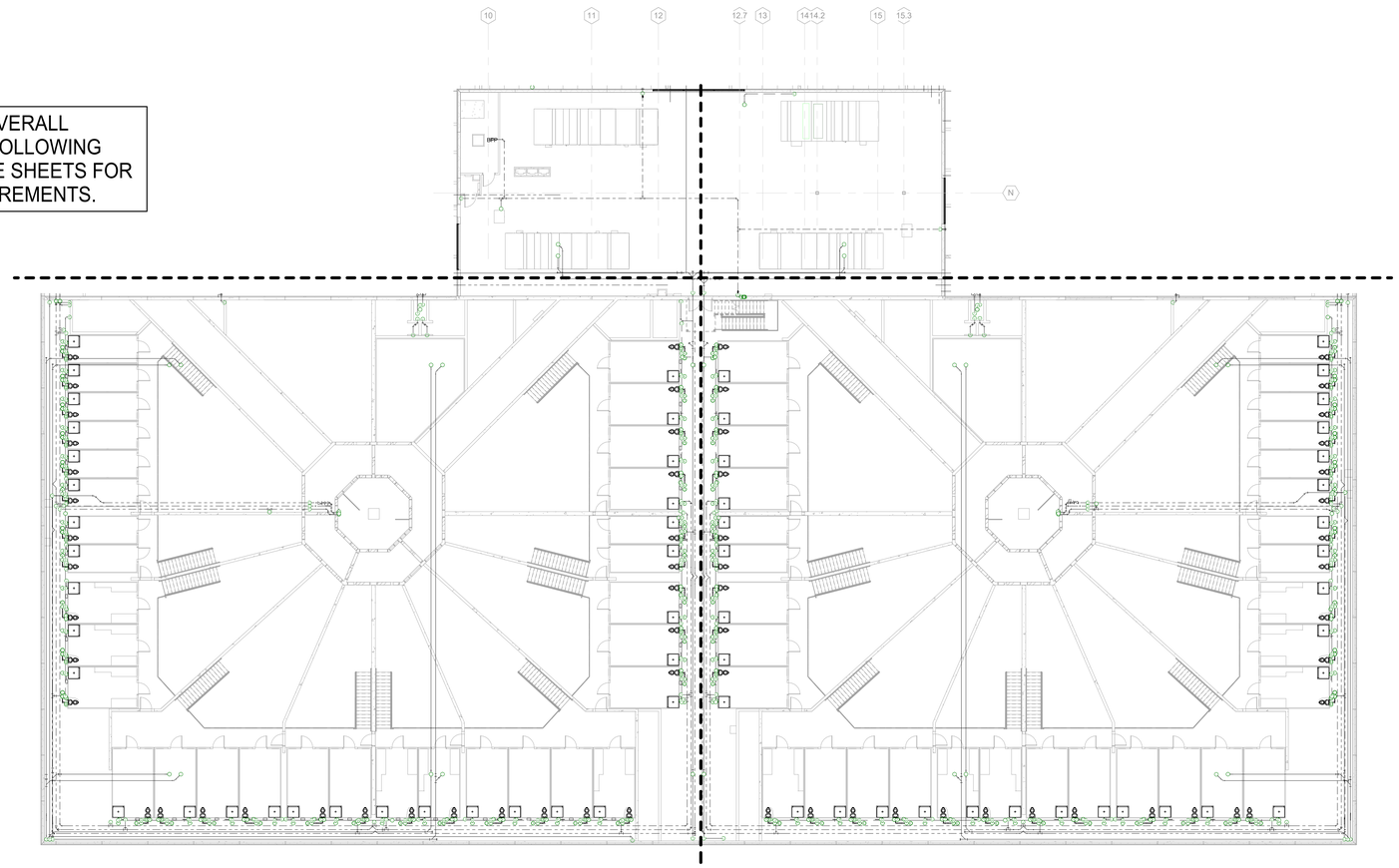
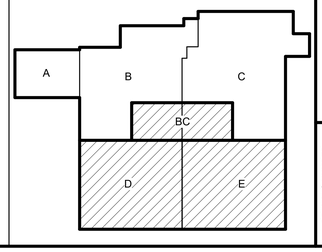
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING P-102-AB, P-102-D, AND P-102-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



1 P-102 FIRST FLOOR MEZZANINE PLUMBING PLAN - OVERALL
SCALE: 1/16" = 1'-0"

NORTH

KEY PLAN



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9/5/19

NO.	REVISION	DATE

DRAWN: KB CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE PLUMBING PLAN - OVERALL

DRAWING NUMBER P-102
PLUMBING

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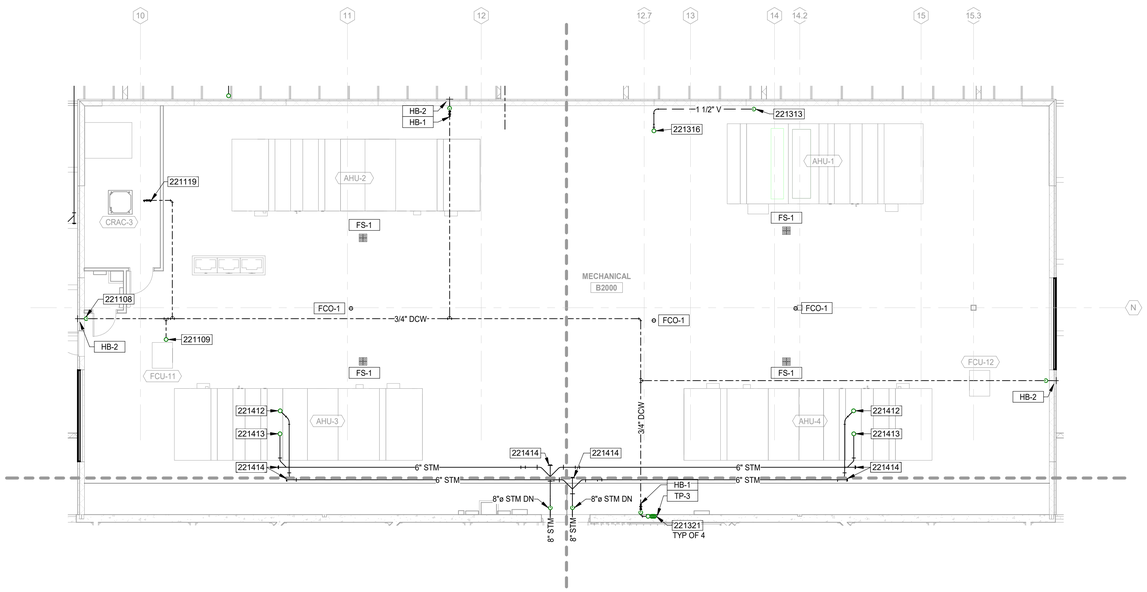


1 MECHANICAL MEZZANINE PLUMBING PLAN - AREA B & C
P-102-BC SCALE: 1/8" = 1'-0"

NORTH

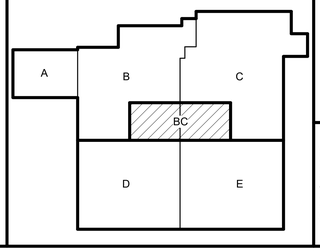
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

221108	3/4" DCW UP CLOSE TO WALL FROM THE FIRST FLOOR ABOVE CIELING SPACE. INSTALL DCW ROUTING PIPE IN B2000 MECHANICAL ROOM CLOSE TO ROOF.
221109	3/4" DCW UP TO ROOF FOR RH-1.
221119	1/2"DCW TO HUMIDIFIER ON CRAC UNIT. PROVIDE 1/2" BACKFLOW PREVENTER. REFER TO MECHANICAL PLANS FOR EXACT LOCATION.
221313	1-1/2" V UP.
221316	2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221321	1/2" TP DN.
221412	6" STM DN FROM ORD-1.
221413	6" STM DN FROM RD-1.
221414	PROVIDE CO.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90
CHK'D: JRA

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL MEZZANINE PLUMBING PLAN - AREA B & C

DRAWING NUMBER
P-102-BC
PLUMBING

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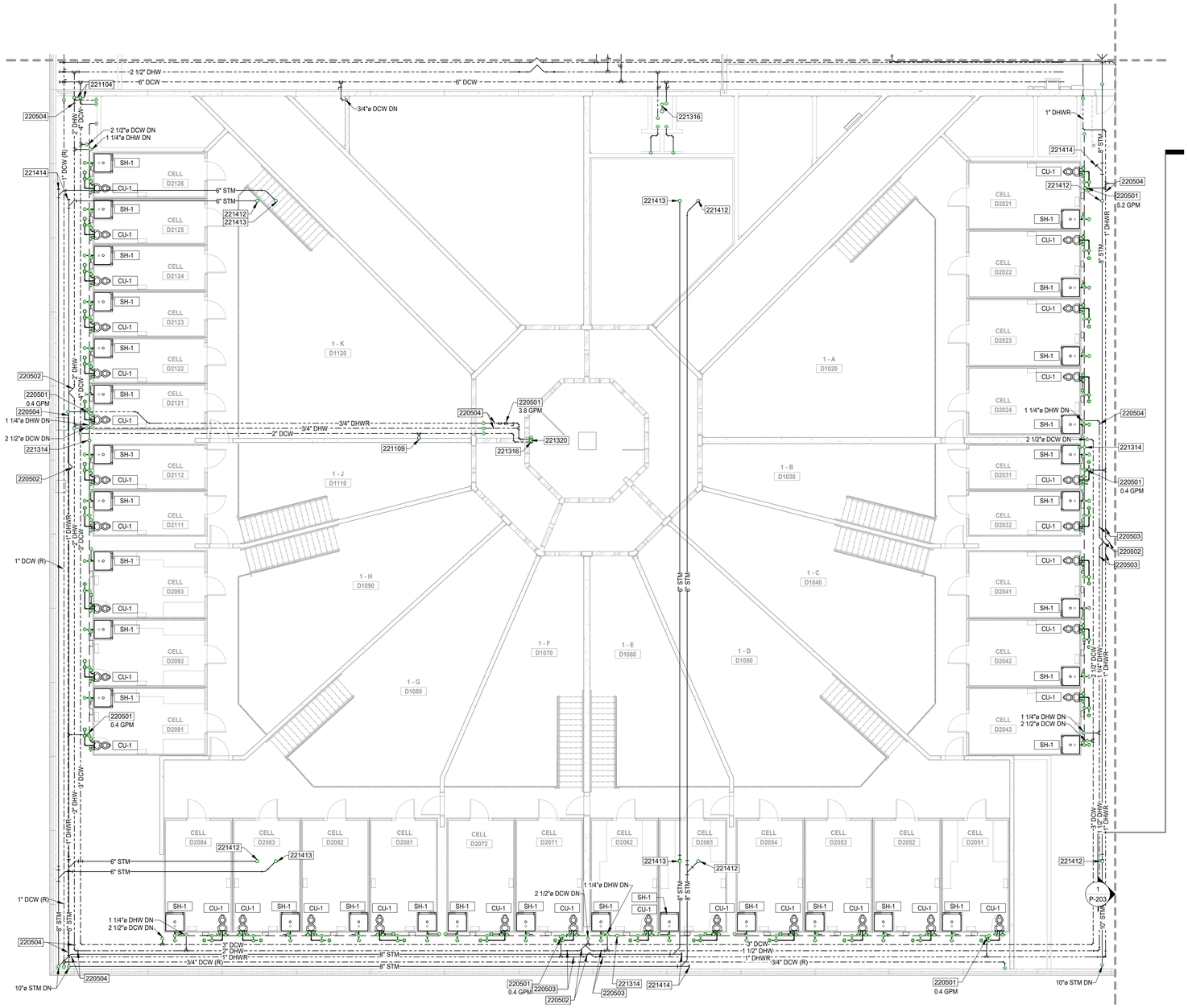


1 P-102-D **MECHANICAL MEZZANINE PLUMBING PLAN - AREA D**
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

220501 DHWR BALANCING VALVE. PROVIDE SHUT-OFF, STRAINER AND CHECK VALVES DOWNSTREAM OF BALANCING VALVE. BALANCE TO GPM INDICATED ON PLANS.

220502 PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.

220503 PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.

220504 PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.

221104 PROVIDE SHUT-OFF VALVE.

221109 3/4" DCW UP TO ROOF FOR RH-1.

221314 4" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.

221316 2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.

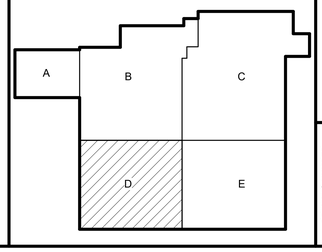
221320 2" AND 1 1/2" V, 2" DCW AND 3/4" DHW TO BE CONTAINED IN PROVIDED CHASE WAY ABOVE.

221412 6" STM DN FROM ORD-1.

221413 6" STM DN FROM RD-1.

221414 PROVIDE CO.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
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6/25/19

NO.	REVISION	DATE

DRAWN: KB
CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE PLUMBING PLAN - AREA D

DRAWING NUMBER
P-102-D
PLUMBING

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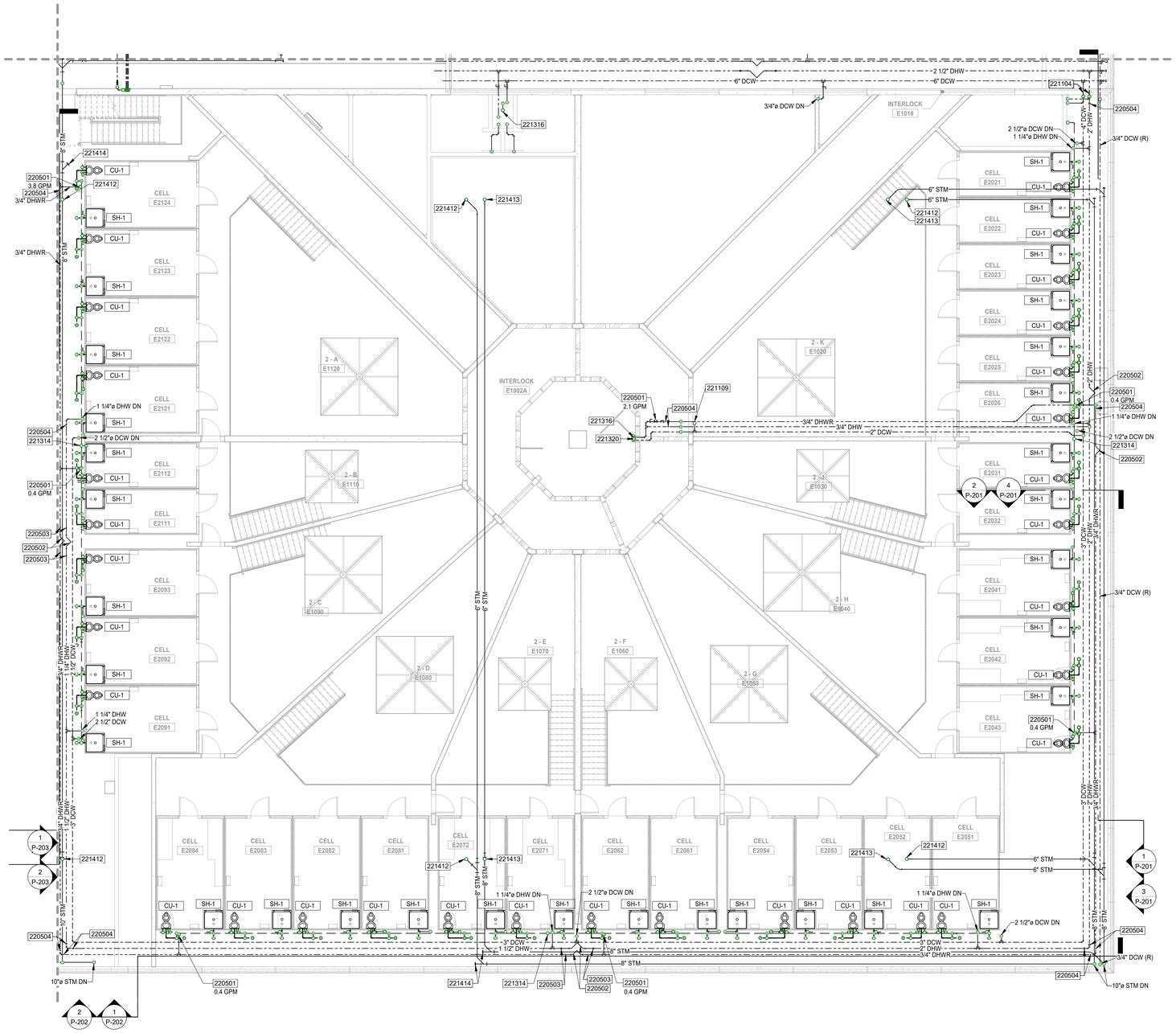


1 P-102-E **MECHANICAL MEZZANINE PLUMBING PLAN - AREA E**
SCALE: 1/8" = 1'-0"
NORTH

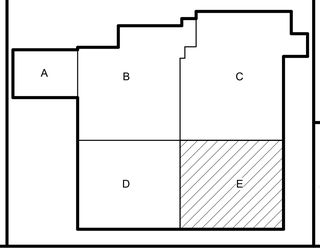
GENERAL NOTES

1. INSTALL ALL EQUIPMENTS PER MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO DRAWINGS P-001 FOR GENERAL INFORMATION NOTES, SYMBOLS AND ABBREVIATION.
3. INVERT ELEVATIONS BASED ON 100.00' FINISHED FLOOR ELEVATION TO BOTTOM OF PIPE. SITE/CIVIL PLANS ESTABLISH FINISHED FLOOR ELEVATION.
4. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR EQUIPMENT.
5. COORDINATE ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTING.
6. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.
7. NO EXPOSED PIPING SHALL BE INSTALLED IN SECURITY/INMATE OCCUPIED AREAS.
8. WHERE PIPE SIZE MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULES.
9. NOT ALL NOTES APPLICABLE TO EACH SHEET.

PLUMBING KEYNOTES

220501	DHWR BALANCING VALVE. PROVIDE SHUT-OFF, STRAINER AND CHECK VALVES DOWNSTREAM OF BALANCING VALVE. BALANCE TO GPM INDICATED ON PLANS.
220502	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
220503	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
220504	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
221104	PROVIDE SHUT-OFF VALVE.
221109	3/4" DCW UP TO ROOF FOR RH-1.
221314	4" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221316	2" V UP. PROVIDE 4" VTR AT A ROOF TERMINATION.
221320	2" AND 1 1/2" V, 2" DCW AND 3/4" DHW TO BE CONTAINED IN PROVIDED CHASE WAY ABOVE.
221412	6" STM DN FROM ORD-1.
221413	6" STM DN FROM RD-1.
221414	PROVIDE CO.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/4/19

NO.	REVISION	DATE

DRAWN: KB CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE PLUMBING PLAN - AREA E

DRAWING NUMBER P-102-E
PLUMBING

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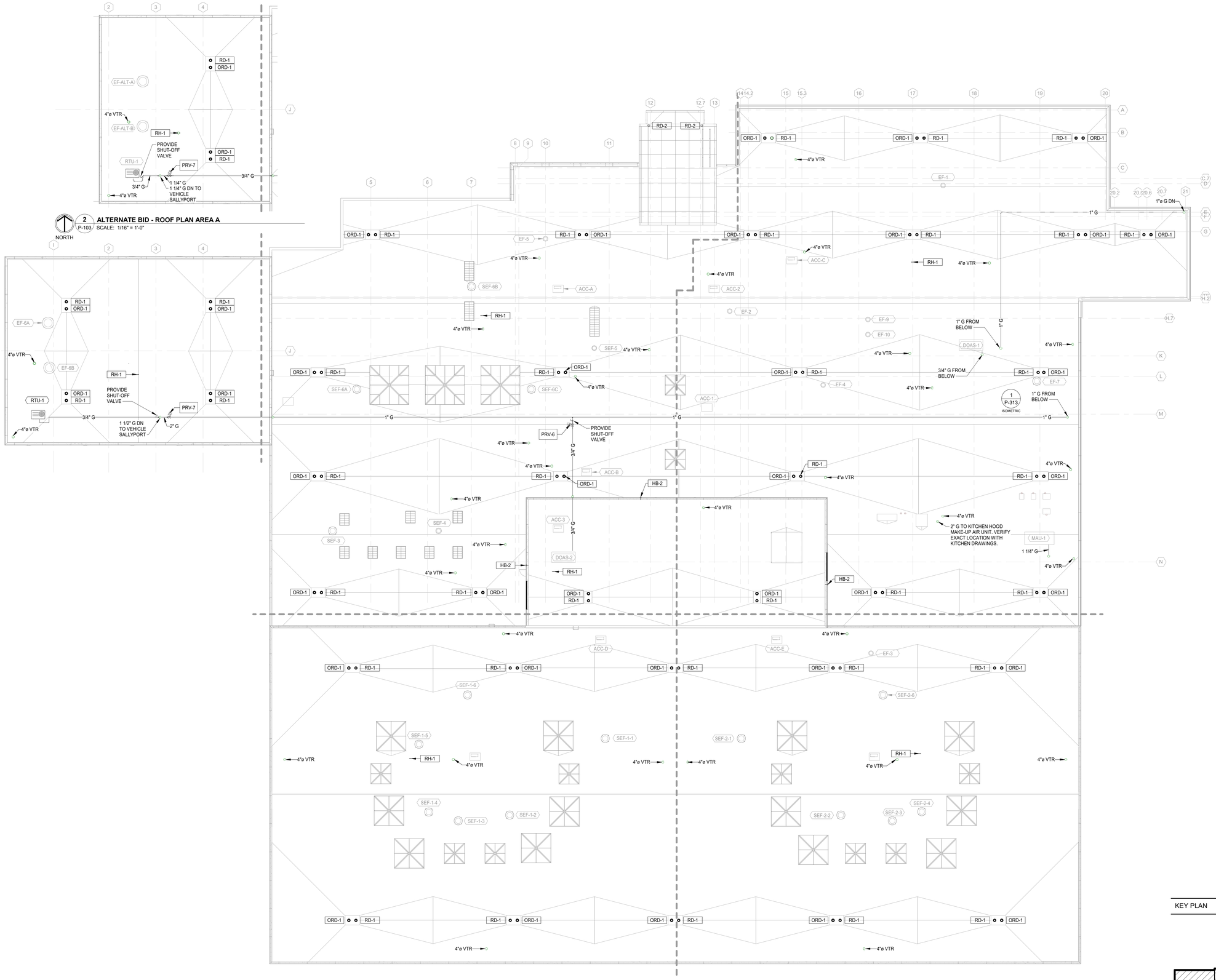
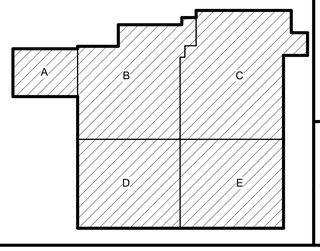


2 P-103 **ALTERNATE BID - ROOF PLAN AREA A**
SCALE: 1/16" = 1'-0"

1 P-103 **BASE BID - ROOF PLAN**
SCALE: 1/16" = 1'-0"

KEY PLAN



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DLZ INDIANA, LLC

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6/25/19

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APPRV'D: JRA
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PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ROOF PLAN

DRAWING NUMBER P-103
PLUMBING

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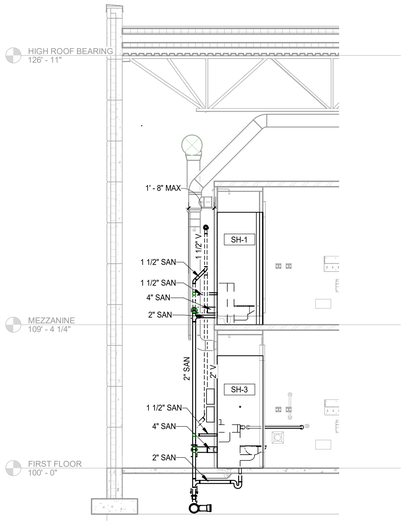
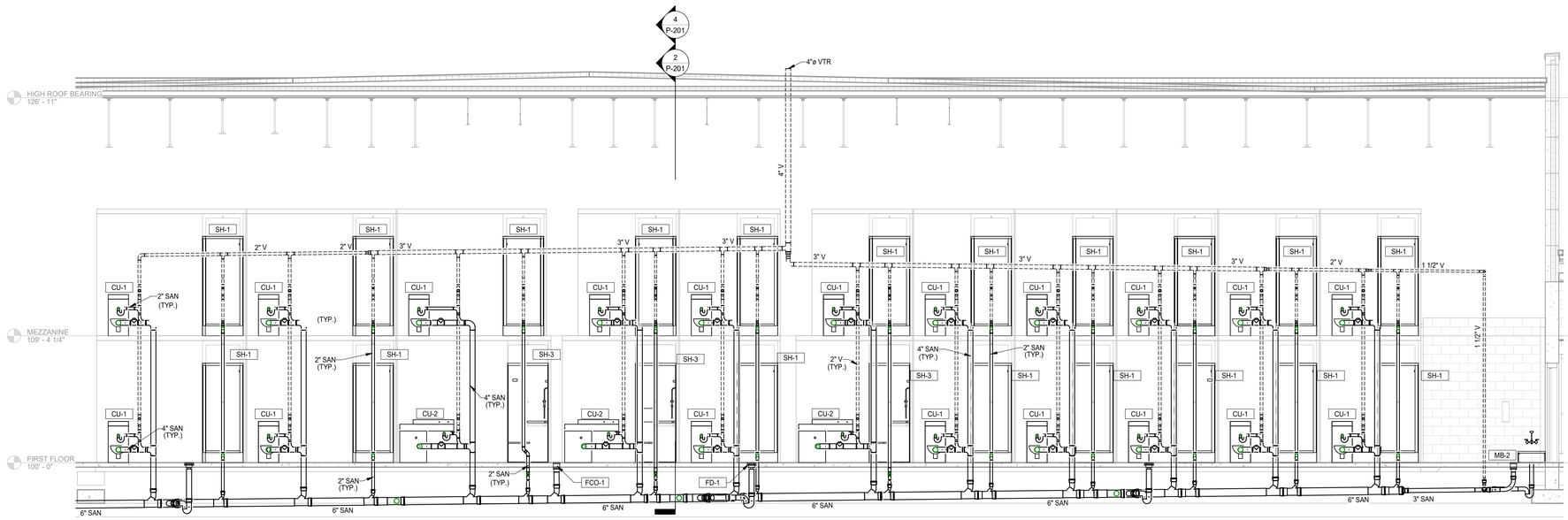
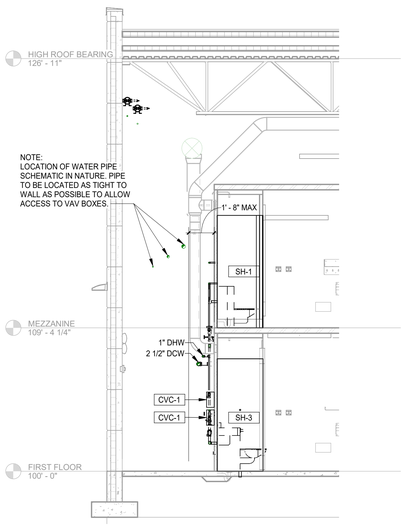


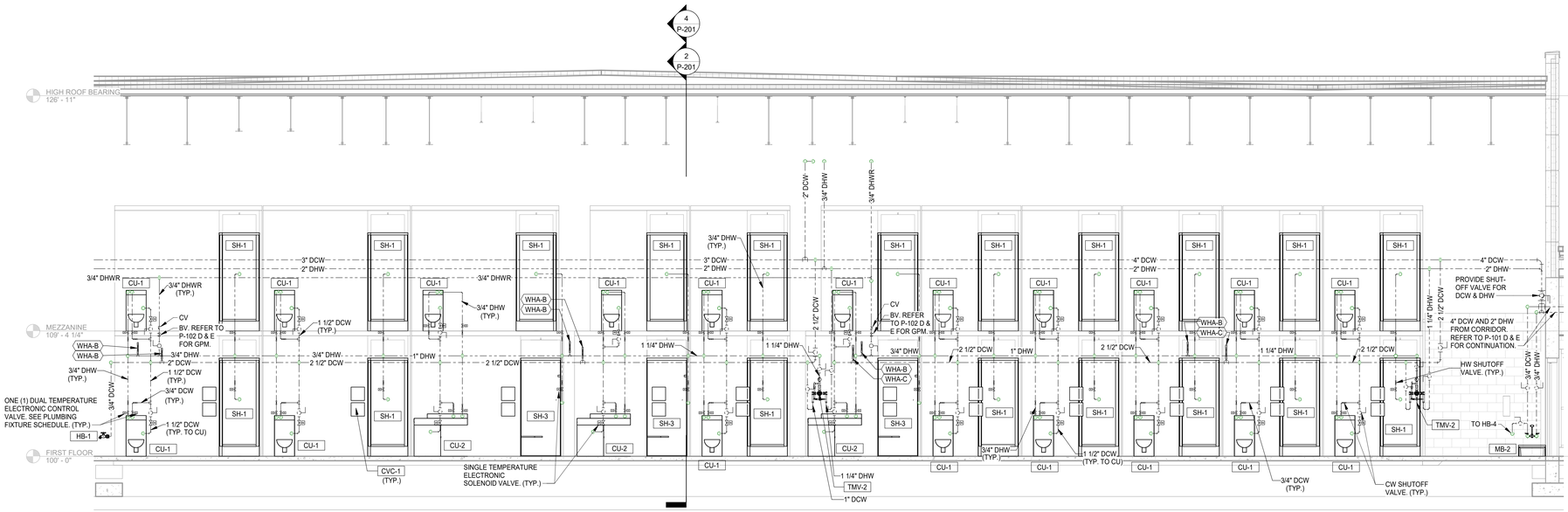
4 P-201 **CHASE SAN & V CLEARANCE**
SCALE: 1/4" = 1'-0"



3 P-201 **TYPICAL HOUSING AREA SAN & V WEST AREA D & E DAYROOM CELLS**
SCALE: 1/4" = 1'-0"



2 P-201 **CHASE DCW & DHW CLEARANCE**
SCALE: 1/4" = 1'-0"



1 P-201 **TYPICAL HOUSING AREA DCW & DHW WEST AREA D & E DAYROOM CELLS**
SCALE: 1/4" = 1'-0"

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DLZ INDIANA, LLC

JOSHUA R. APLING
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9/5/19

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APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
PLUMBING SECTIONS

DRAWING NUMBER
P-201
PLUMBING

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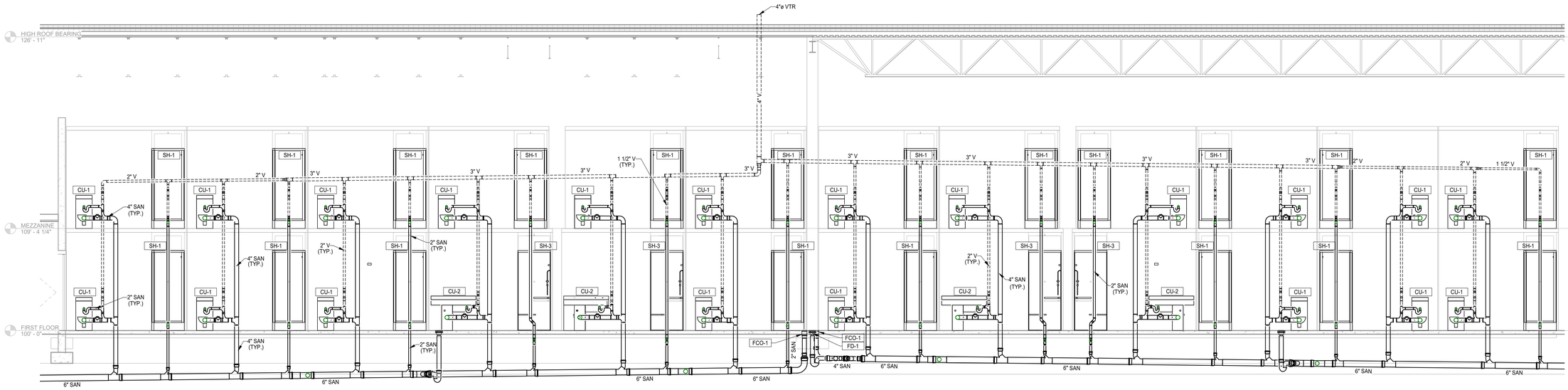
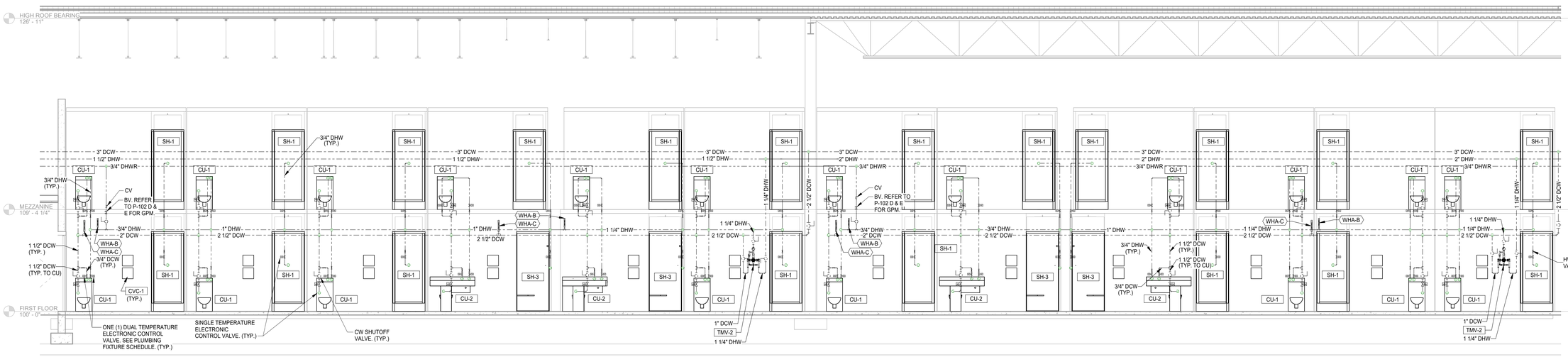


2 P-202 **TYPICAL HOUSING AREA SAN & V SOUTH AREA D & E DAYROOM CELLS**
SCALE: 1/4" = 1'-0"



1 P-202 **TYPICAL HOUSING AREA DCW & DHW SOUTH AREA D & E DAYROOM CELLS**
SCALE: 1/4" = 1'-0"

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DLZ INDIANA, LLC

JOSHUA R. APLING
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STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
PLUMBING SECTIONS

DRAWING NUMBER
P-202
PLUMBING

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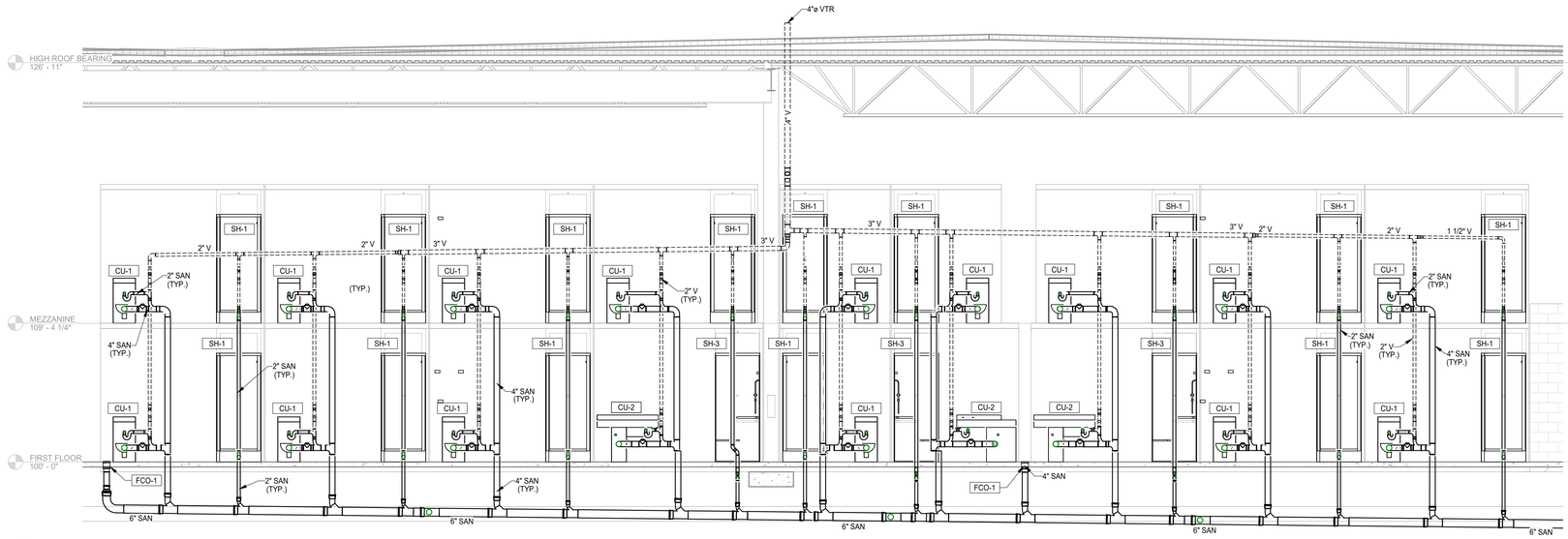
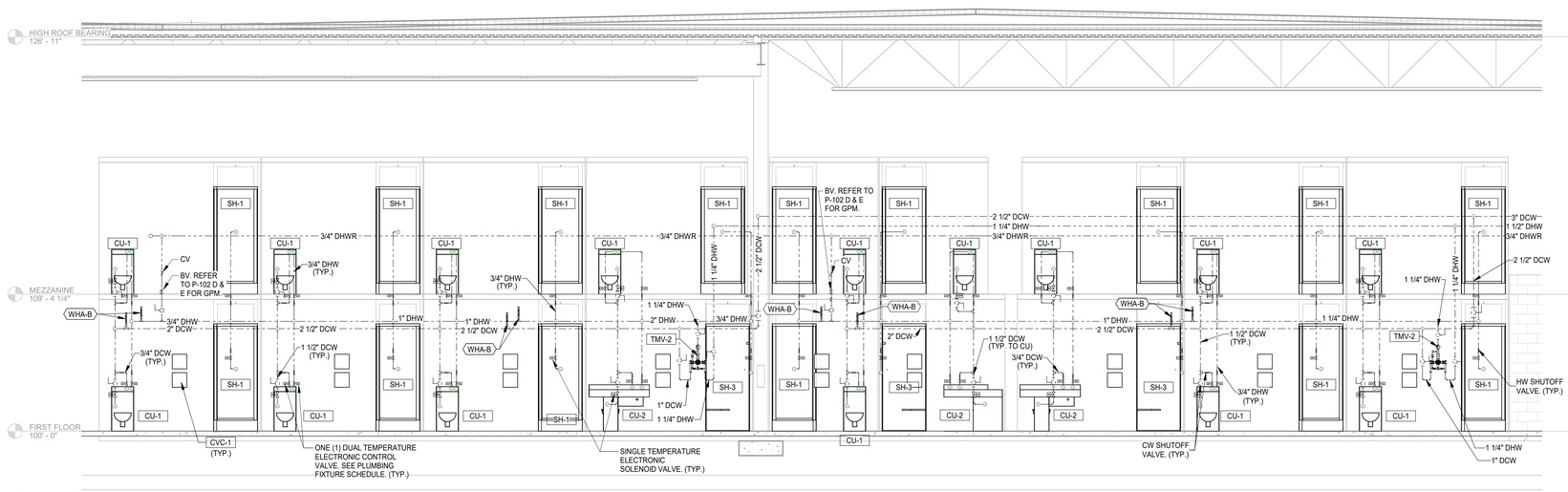


2 **TYPICAL HOUSING AREA SAN & V SECTION 3**
P-203 SCALE: 1/4" = 1'-0"



1 **TYPICAL HOUSING AREA DCW & DHW SECTION 3**
P-203 SCALE: 1/4" = 1'-0"

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JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
CHK'D: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PLUMBING SECTIONS

DRAWING NUMBER
P-203
PLUMBING

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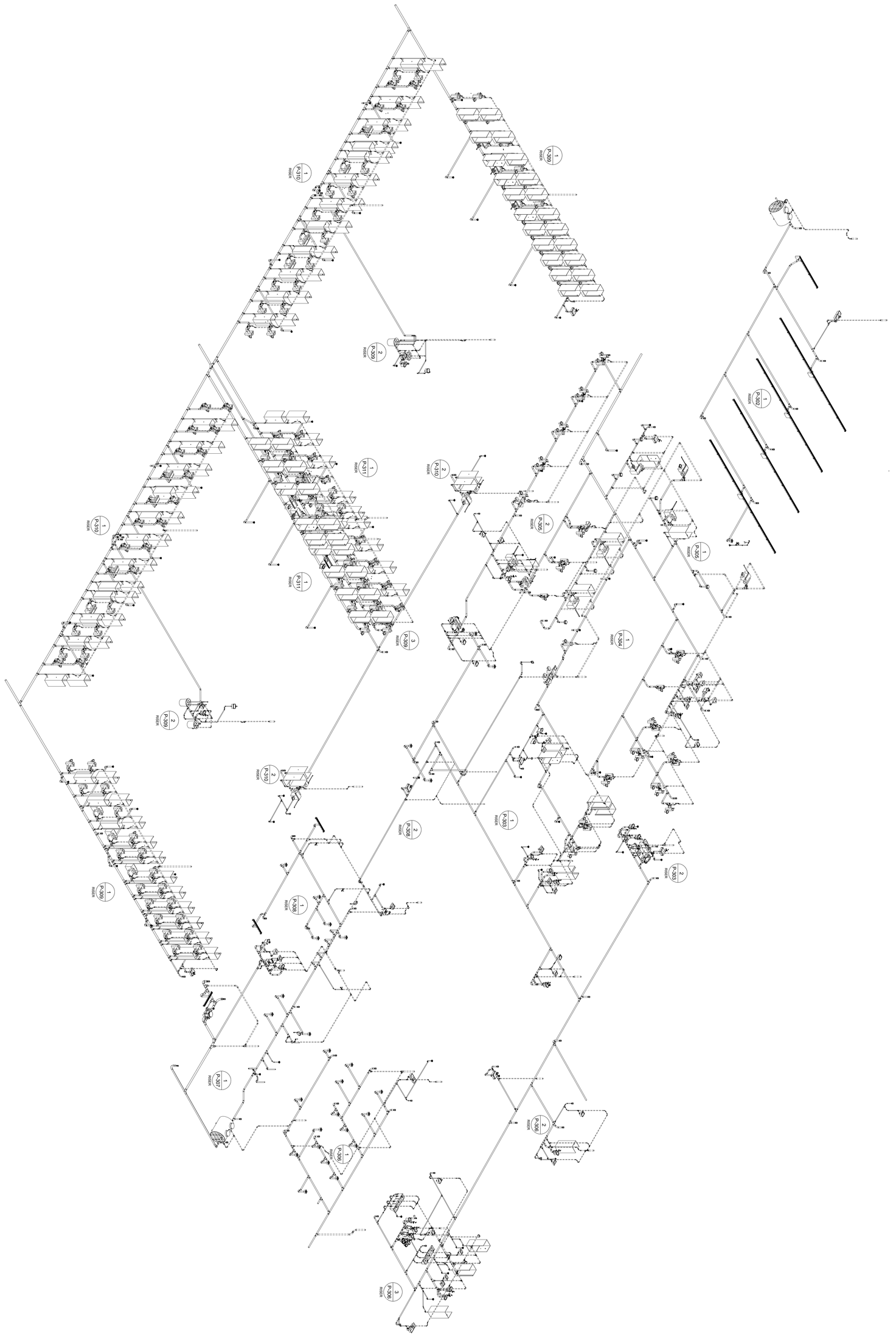

1 RISER DIAGRAM - OVERALL
P-301 / SCALE: N.T.S.

DRAWING NUMBER	A NEW	DRAWN: KB CHK'D: JRA	NO.	REVISION	DATE
P-301	**VIGO COUNTY SECURITY CENTER**	DESIGNED: KB			
	TERRE HAUTE, INDIANA	APPRV'D: JRA			
		DATE: September 5, 2019			
		PROJECT NUMBER			
PLUMBING	**SAN & V RISER DIAGRAM - OVERALL**	1663-1190-90			

JOSHUA R. ARLING REGISTERED PE 10950274 STATE OF INDIANA PROFESSIONAL ENGINEER 9/5/19

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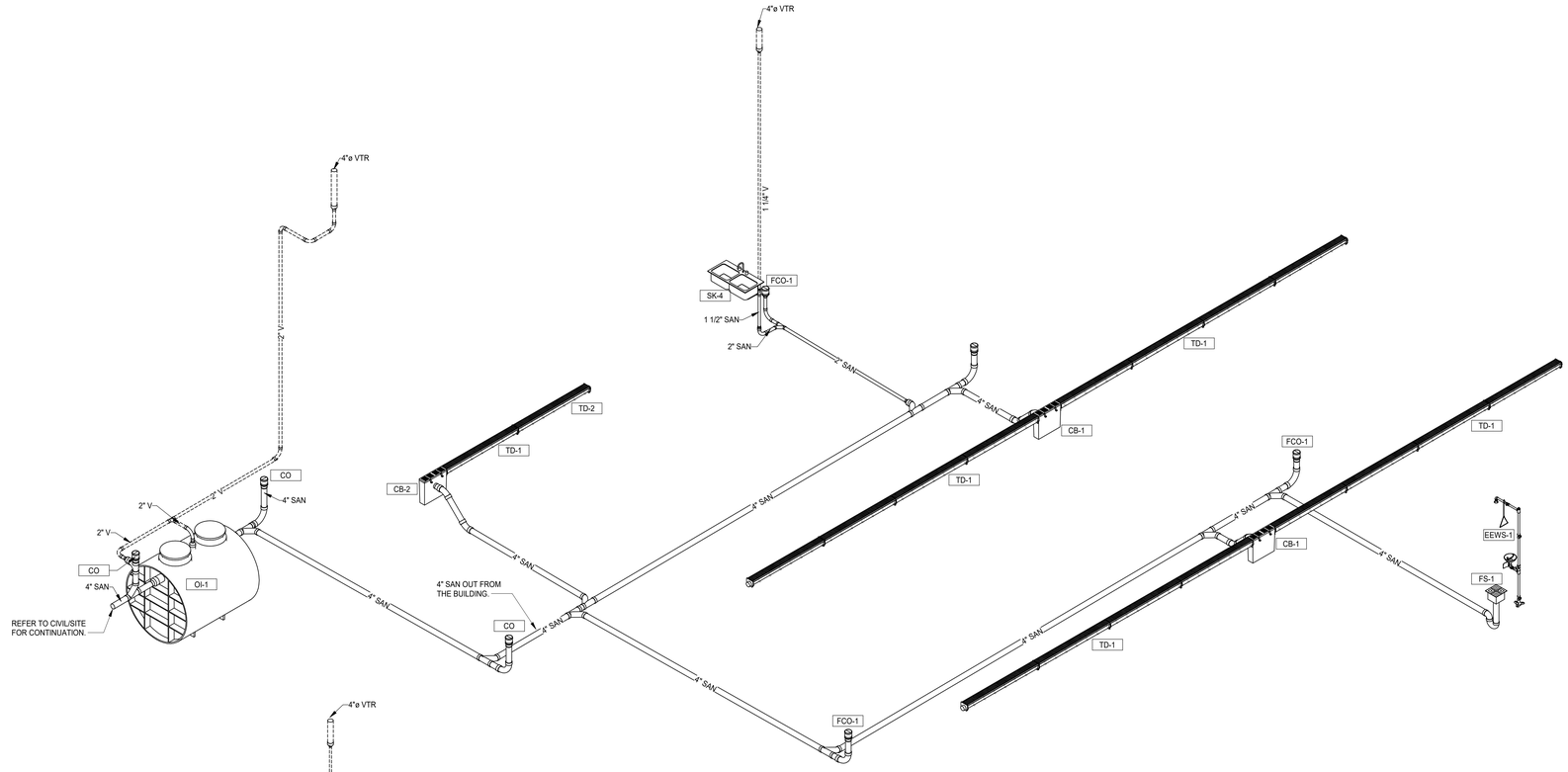
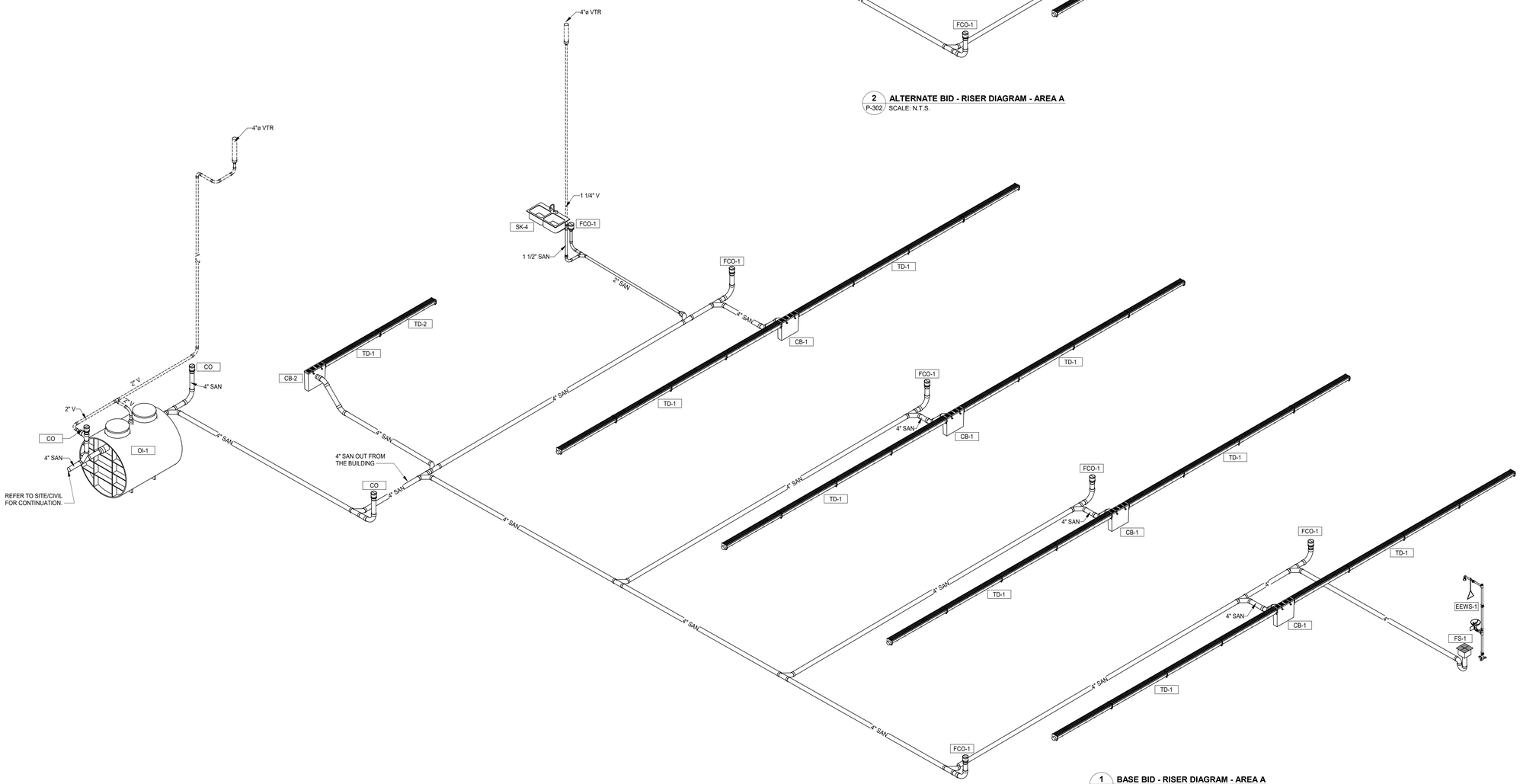


2 P-302 **ALTERNATE BID - RISER DIAGRAM - AREA A**
SCALE: N.T.S.



1 P-302 **BASE BID - RISER DIAGRAM - AREA A**
SCALE: N.T.S.

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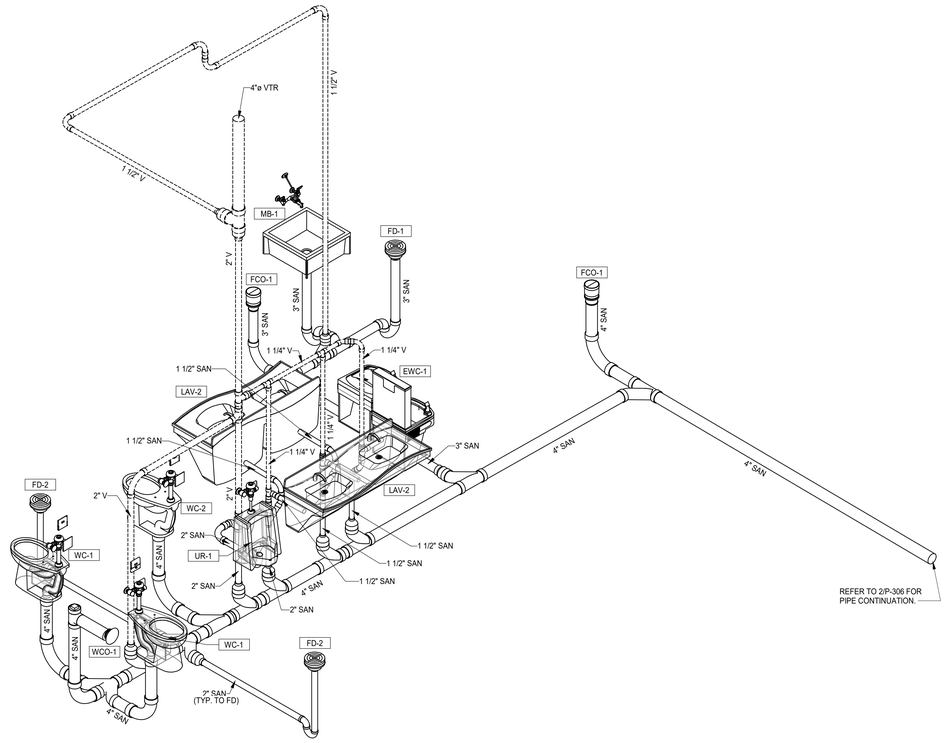
JOSHUA R. ARLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

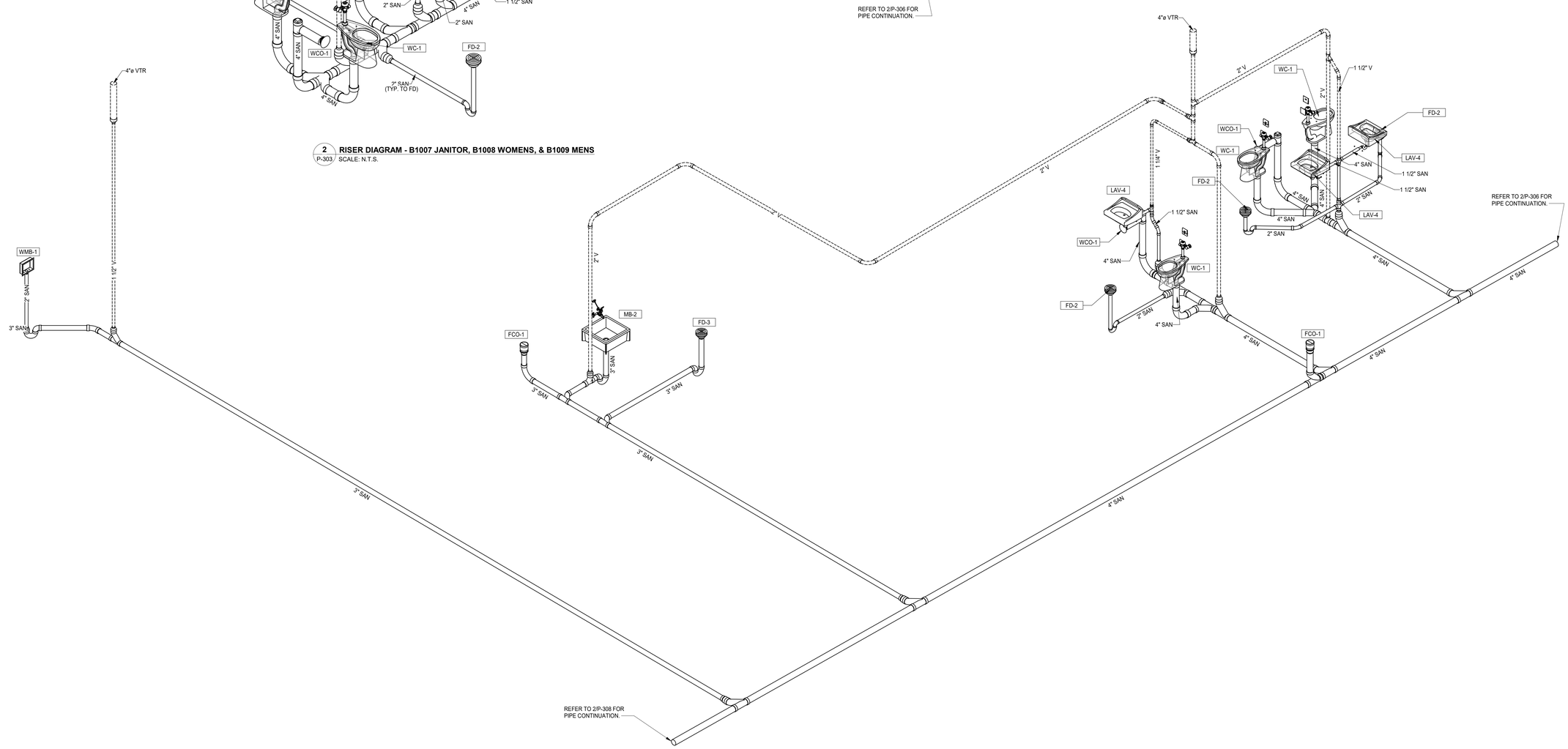
DRAWN: KB CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
SAN & V RISER DIAGRAM - AREA A

DRAWING NUMBER
P-302
PLUMBING



2 P-303 **RISER DIAGRAM - B1007 JANITOR, B1008 WOMENS, & B1009 MENS**
SCALE: N.T.S.



1 P-303 **RISER DIAGRAM - B1026 WOMENS, B1027 MENS, B1030 JANITOR, B1031 STAFF TOILET, & B1043 INMATE CLOTHING**
SCALE: N.T.S.

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APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER: 1663-1190-90

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SAN & V RISER DIAGRAM - AREA B

DRAWING NUMBER: P-303
PLUMBING

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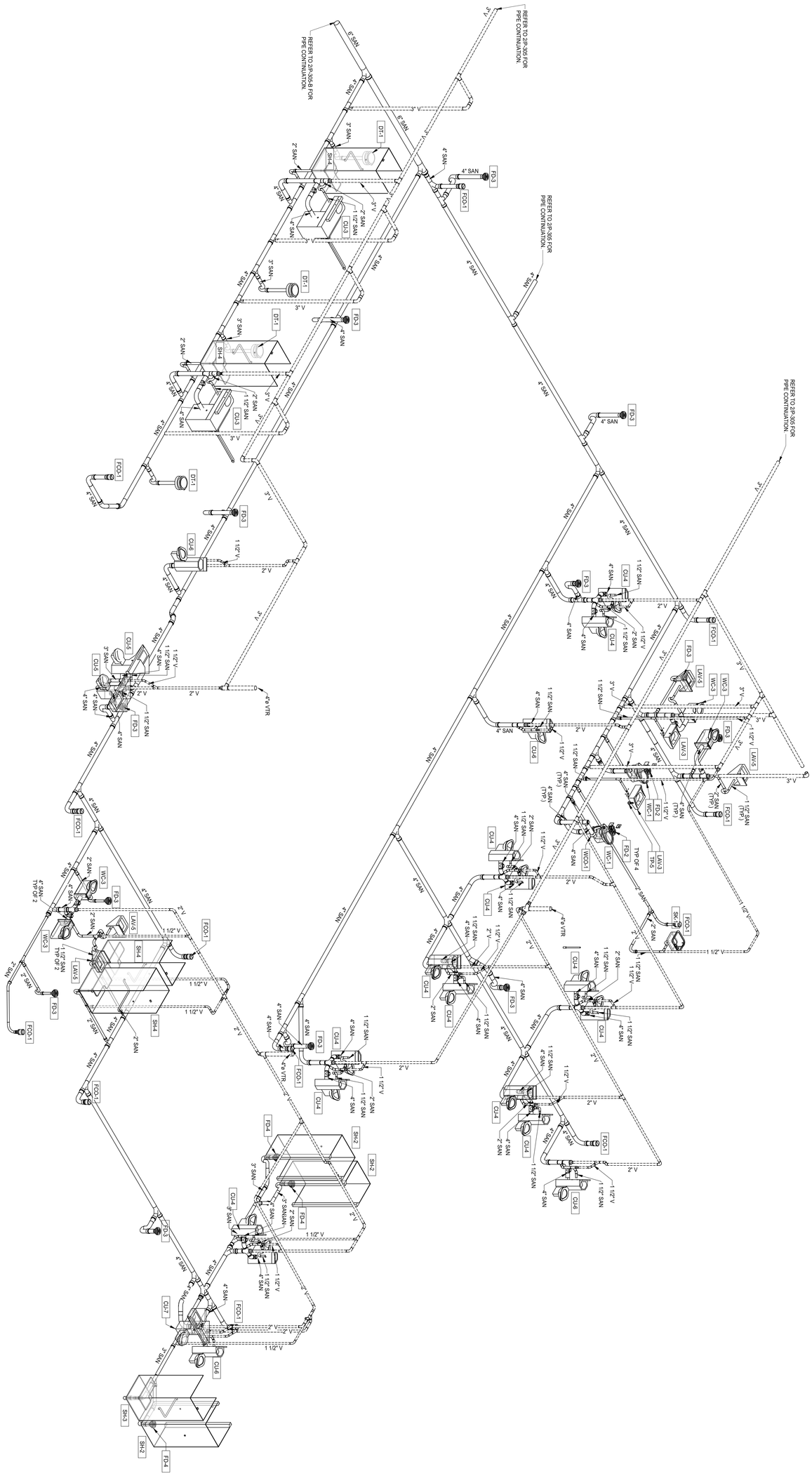

1 RISER DIAGRAM - B1053 INTAKE CENTER
P-304 SCALE: N.T.S.

DRAWING NUMBER	A NEW	DRAWN: KB	CHK'D: JRA	NO.	REVISION	DATE
P-304	VIGO COUNTY SECURITY CENTER	DESIGNED: KB				
	TERRE HAUTE, INDIANA	APPRV'D: JRA				
		DATE: September 5, 2019				
	SAN & V RISER DIAGRAM - AREA B	PROJECT NUMBER				
PLUMBING		1663-1190-90				

JOSHUA R. APLING REGISTERED PE 10910274 STATE OF INDIANA PROFESSIONAL ENGINEER 9/5/19

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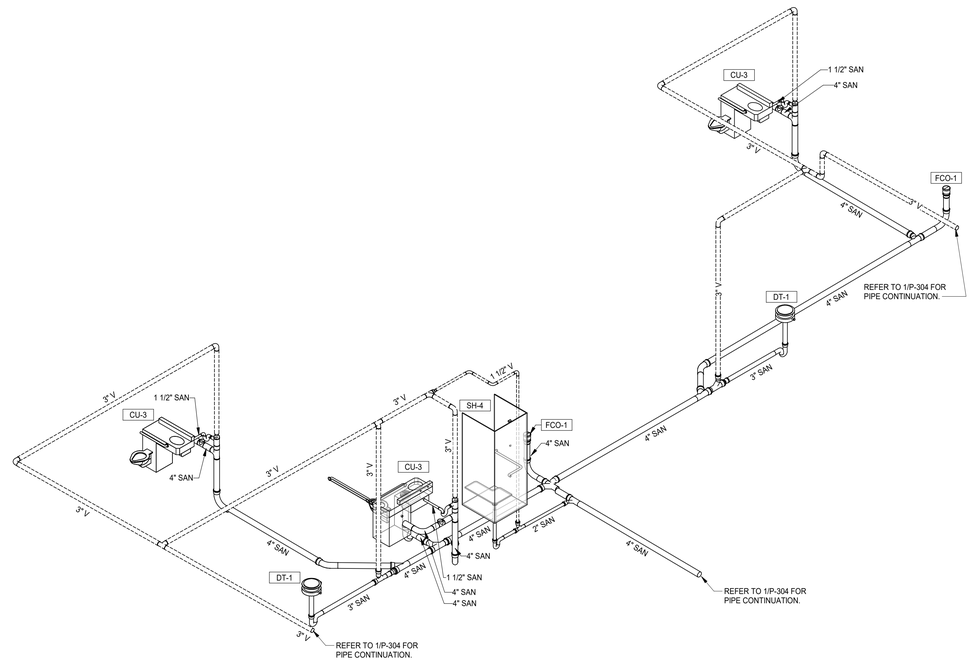
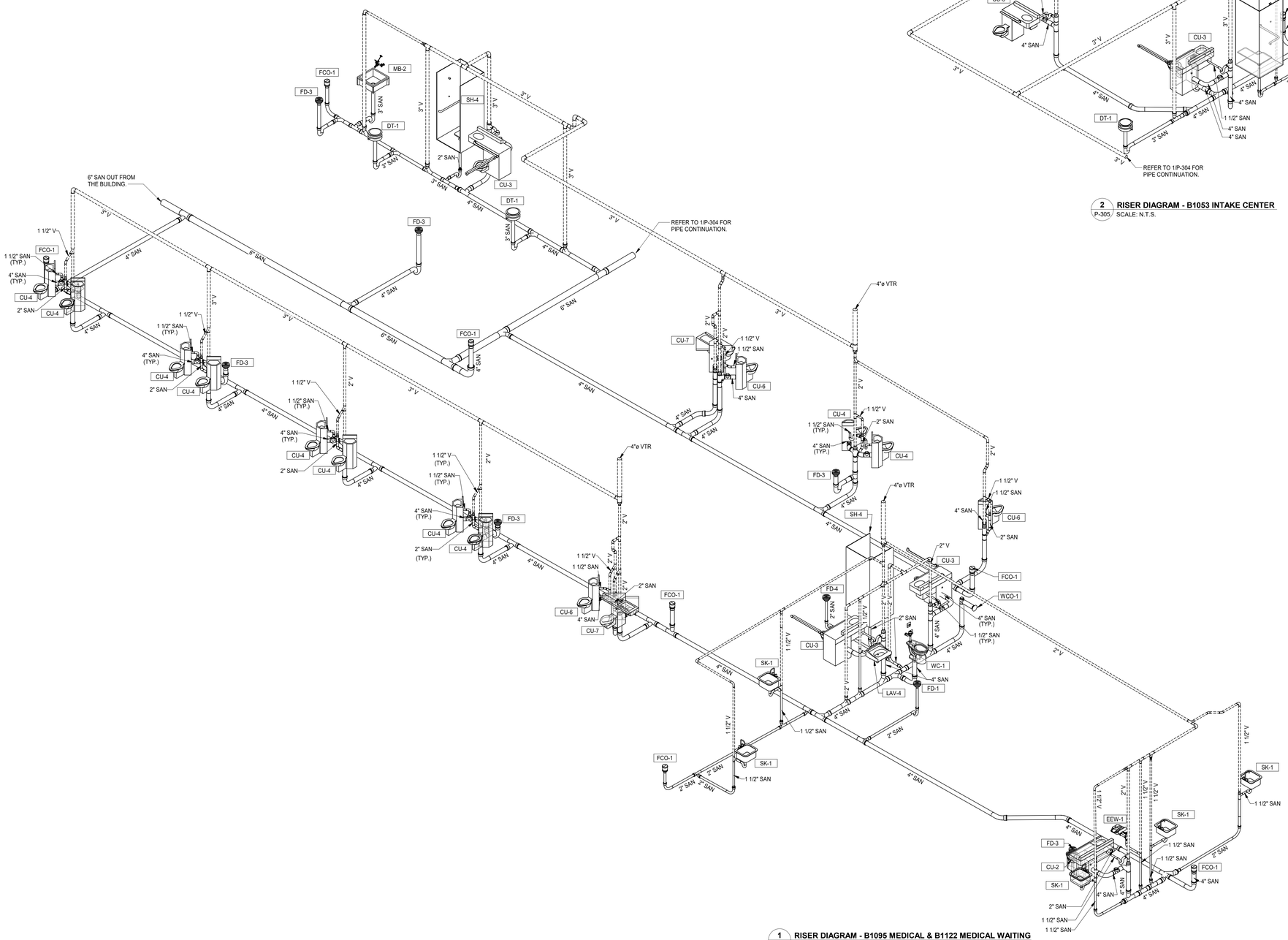


2 RISER DIAGRAM - B1053 INTAKE CENTER
P-305 SCALE: N.T.S.



1 RISER DIAGRAM - B1095 MEDICAL & B1122 MEDICAL WAITING
P-305 SCALE: N.T.S.

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NO.	REVISION	DATE

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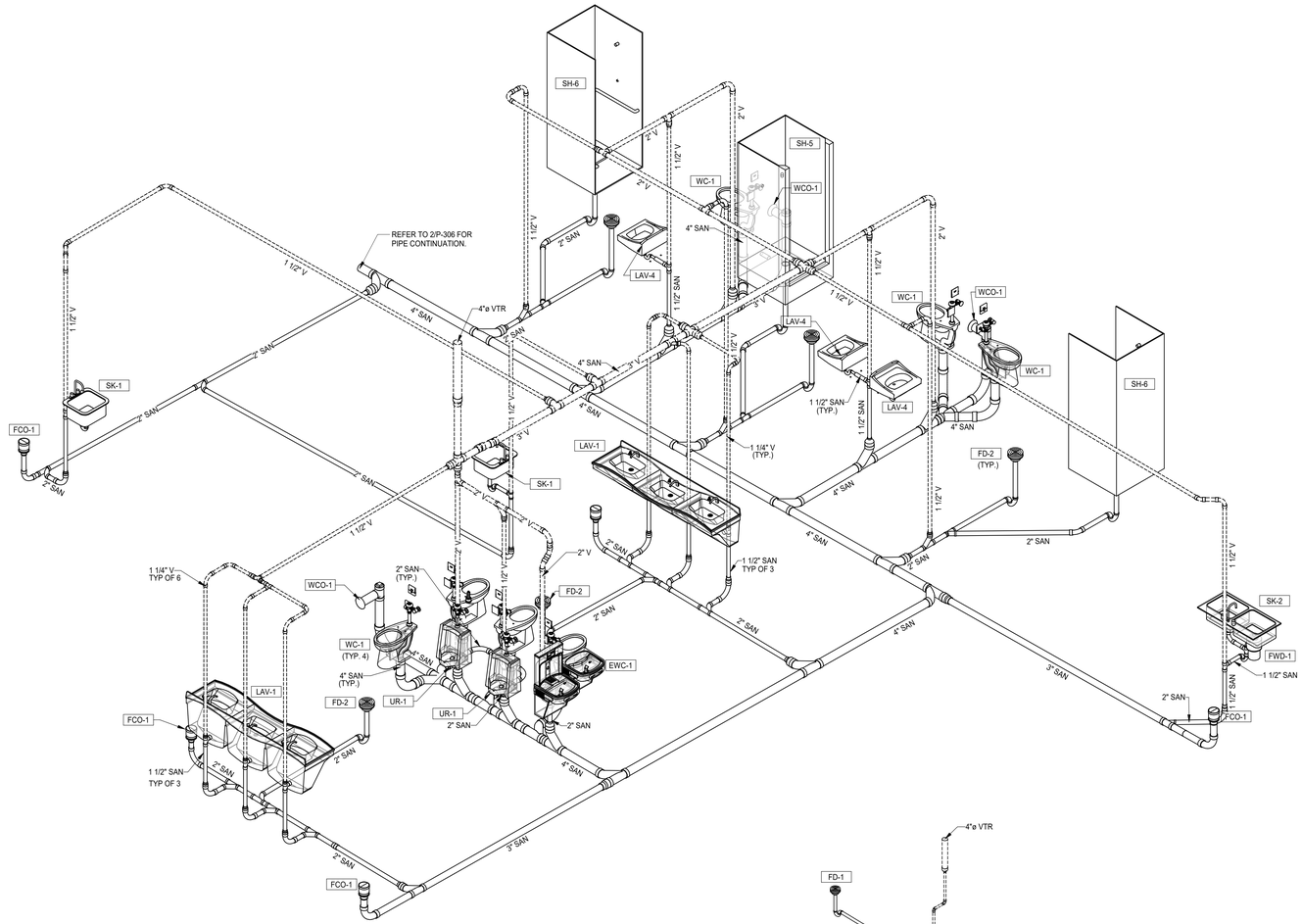
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

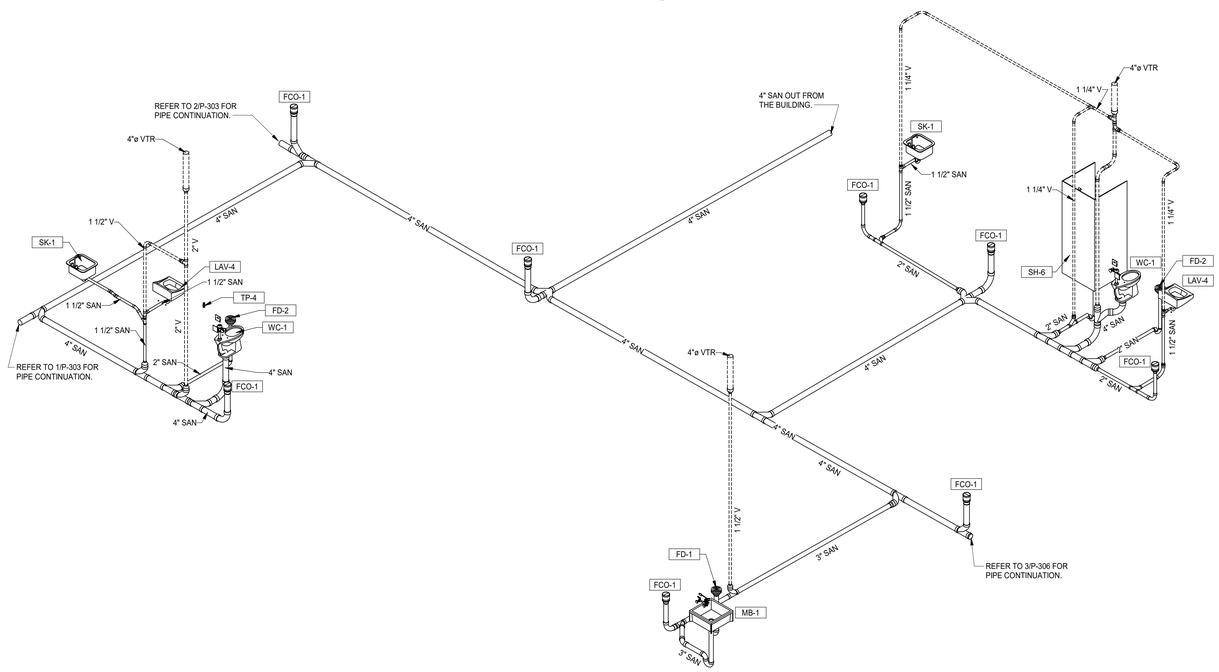
SAN & V RISER DIAGRAM - AREA B

DRAWING NUMBER
P-305

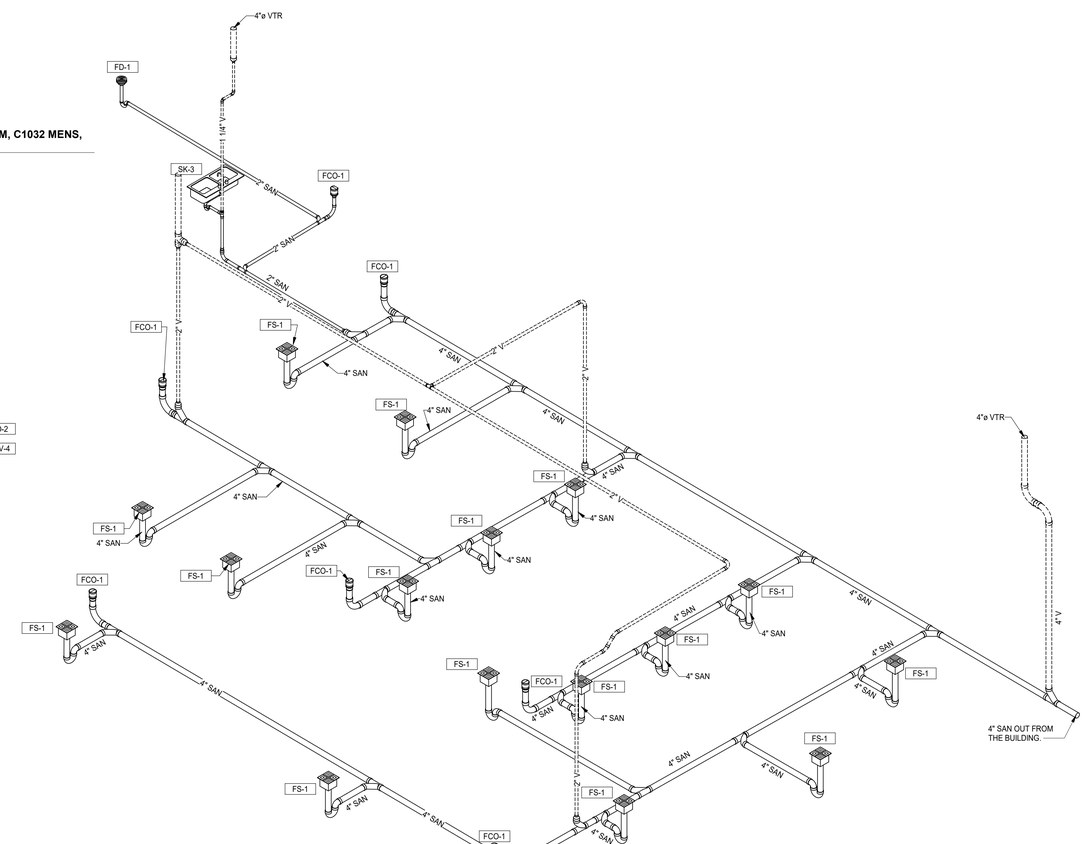
PLUMBING



3 P-306 **RISER DIAGRAMS - C1008A LACTATION, C1024, C1025, C1026 TOILET/SHOWER, C1030 BREAK ROOM, C1032 MENS, C1033 WOMENS, & C1038 ARMORY**
SCALE: N.T.S.



2 P-306 **RISER DIAGRAMS - B1016 MASTER CONTROL C1005 JANITOR, C1015 CONFERENCE ROOM, & C1017 TOILET**
SCALE: N.T.S.



1 P-306 **RISER DIAGRAM - C1053 MECHANICAL**
SCALE: N.T.S.

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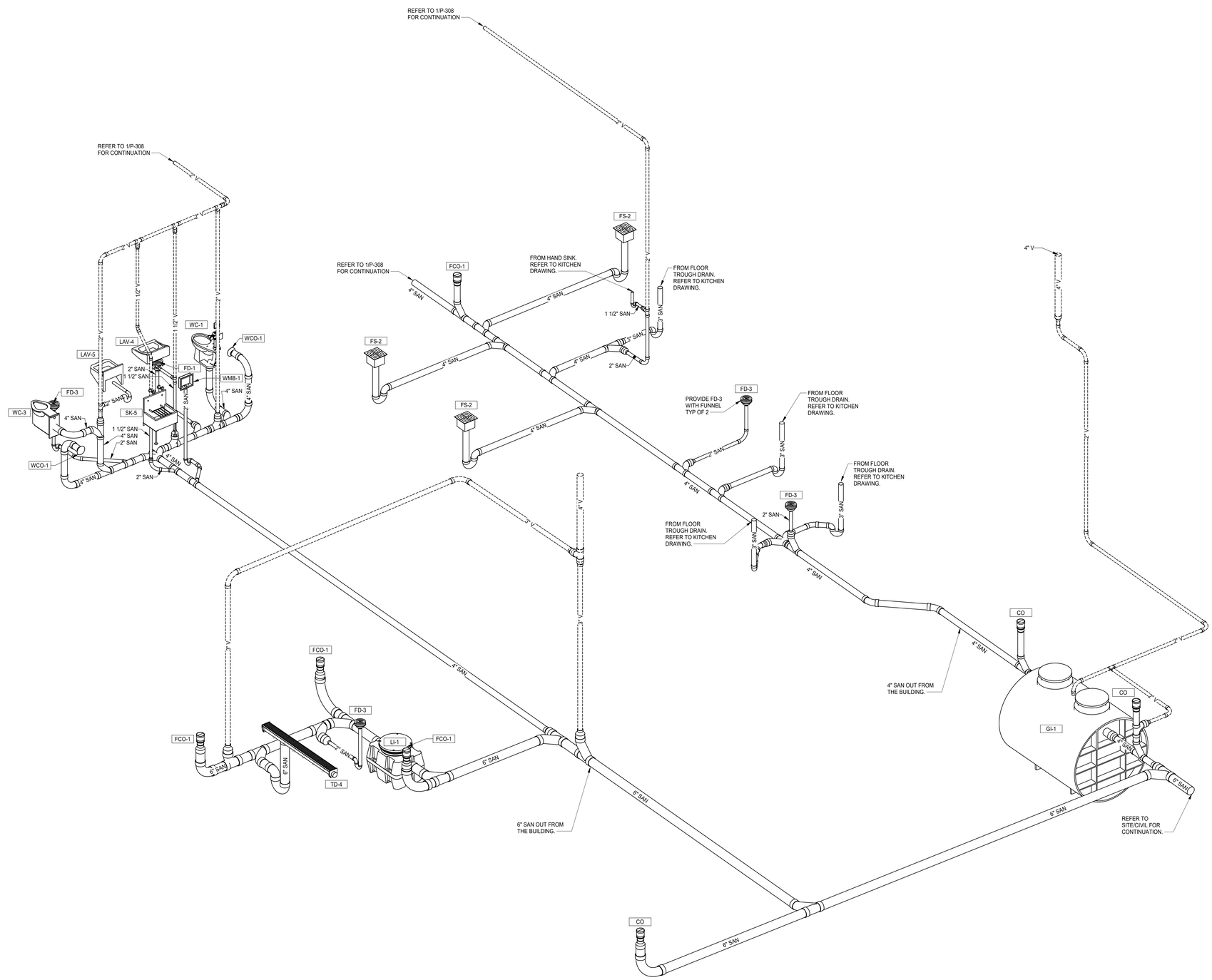
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
SAN & V RISER DIAGRAM - AREA C

DRAWING NUMBER P-306
PLUMBING



NORTH

1 / P-307 **RISER DIAGRAM - C1059 KITCHEN & C1065 LAUNDRY**
SCALE:

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SAN & V RISER DIAGRAM - AREA C

DRAWING NUMBER
P-307
PLUMBING

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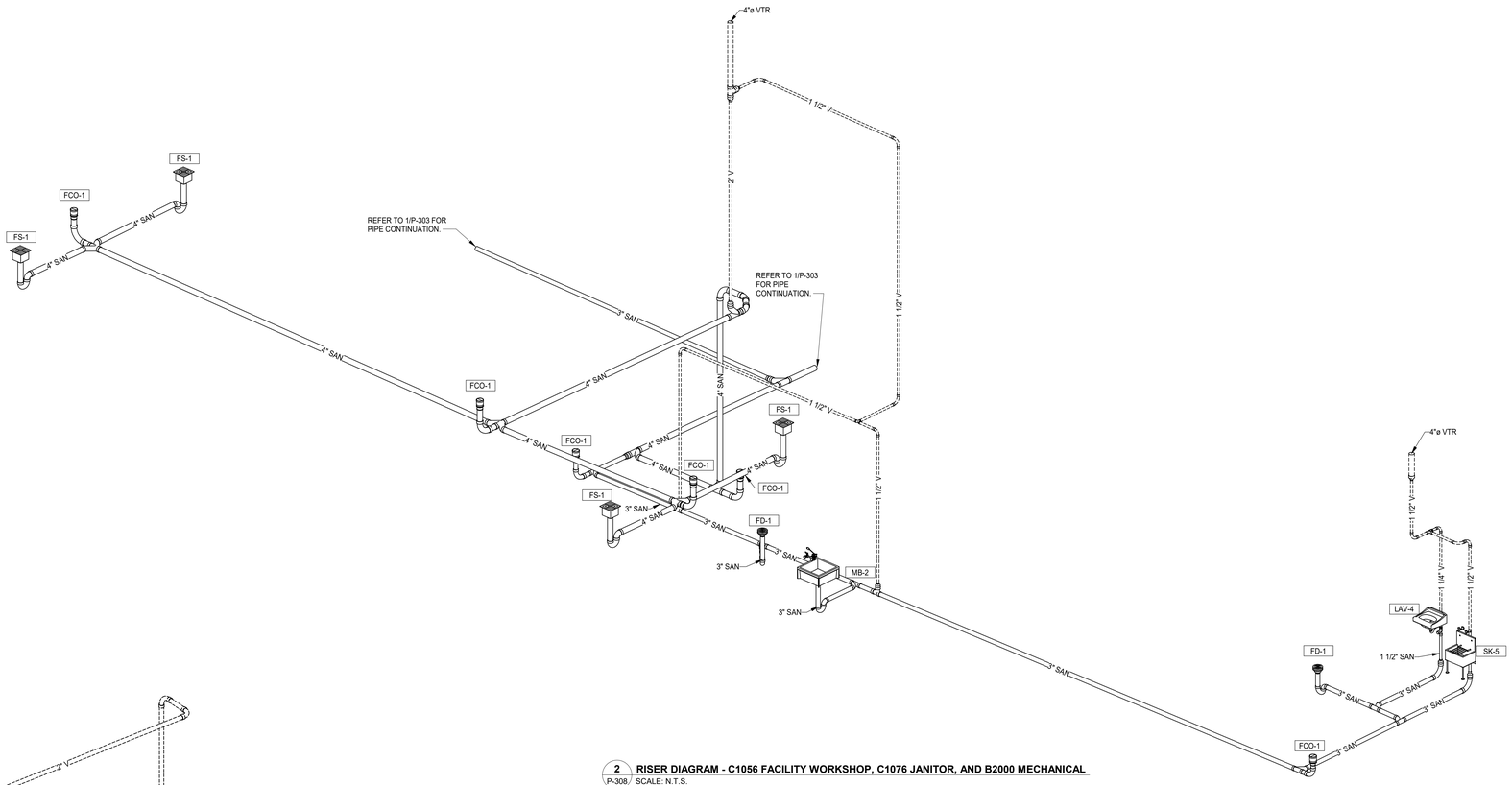
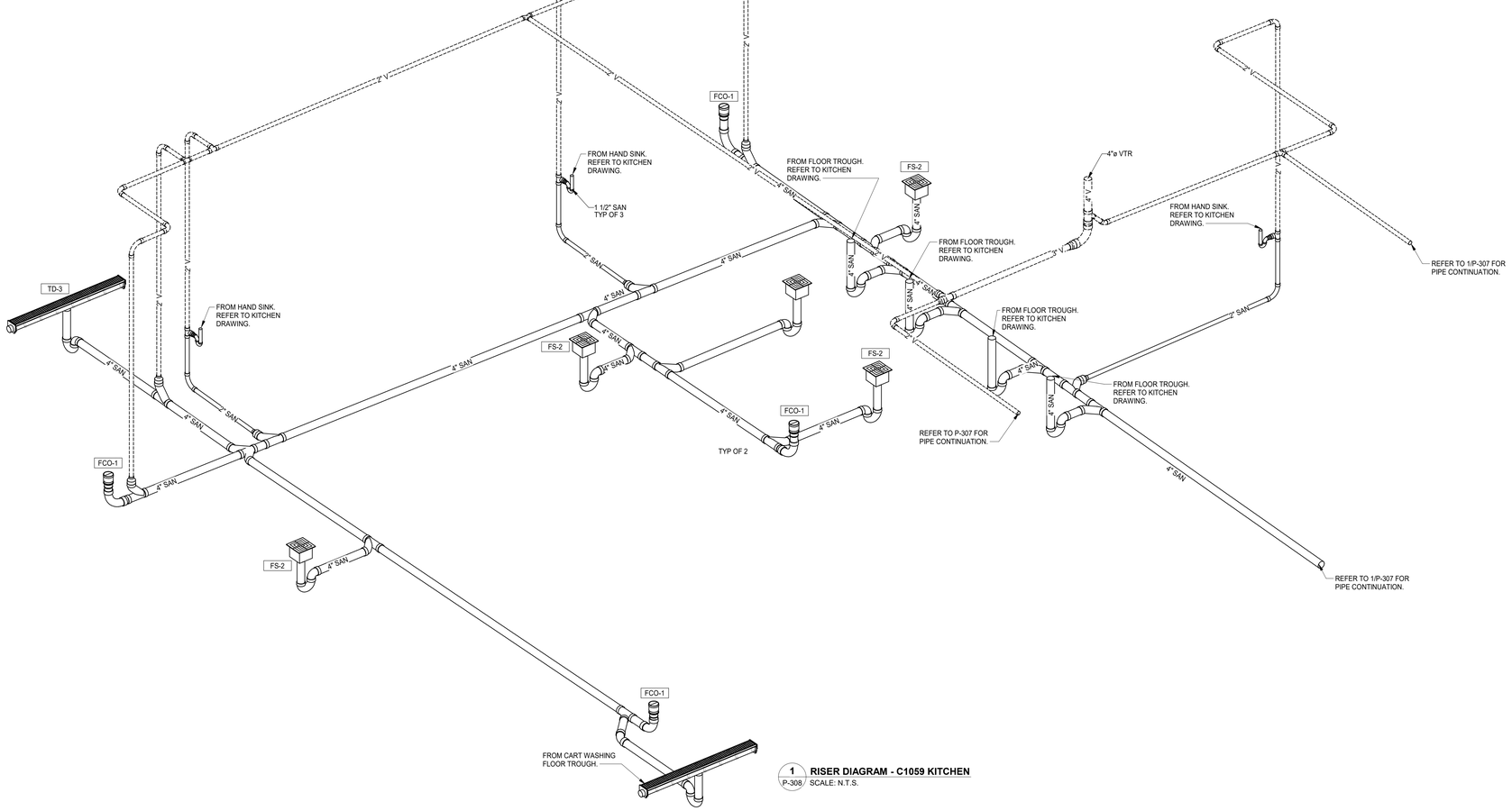


2 P-308 **RISER DIAGRAM - C1056 FACILITY WORKSHOP, C1076 JANITOR, AND B2000 MECHANICAL**
SCALE: N.T.S.



1 P-308 **RISER DIAGRAM - C1059 KITCHEN**
SCALE: N.T.S.

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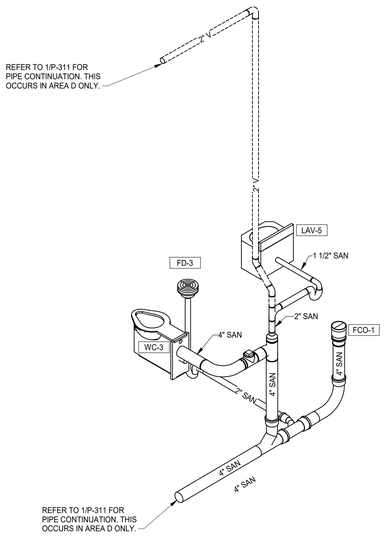
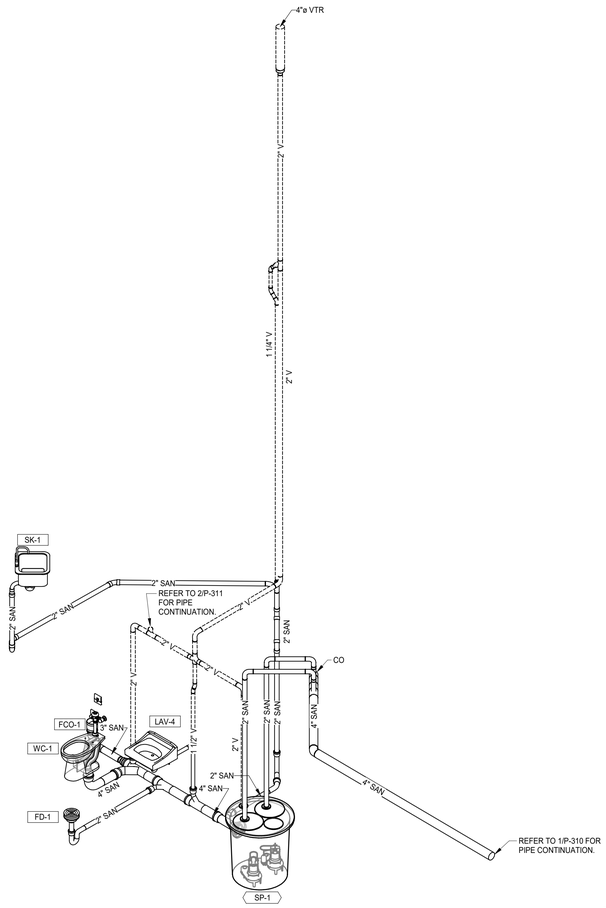
SAN & V RISER DIAGRAM - AREA C

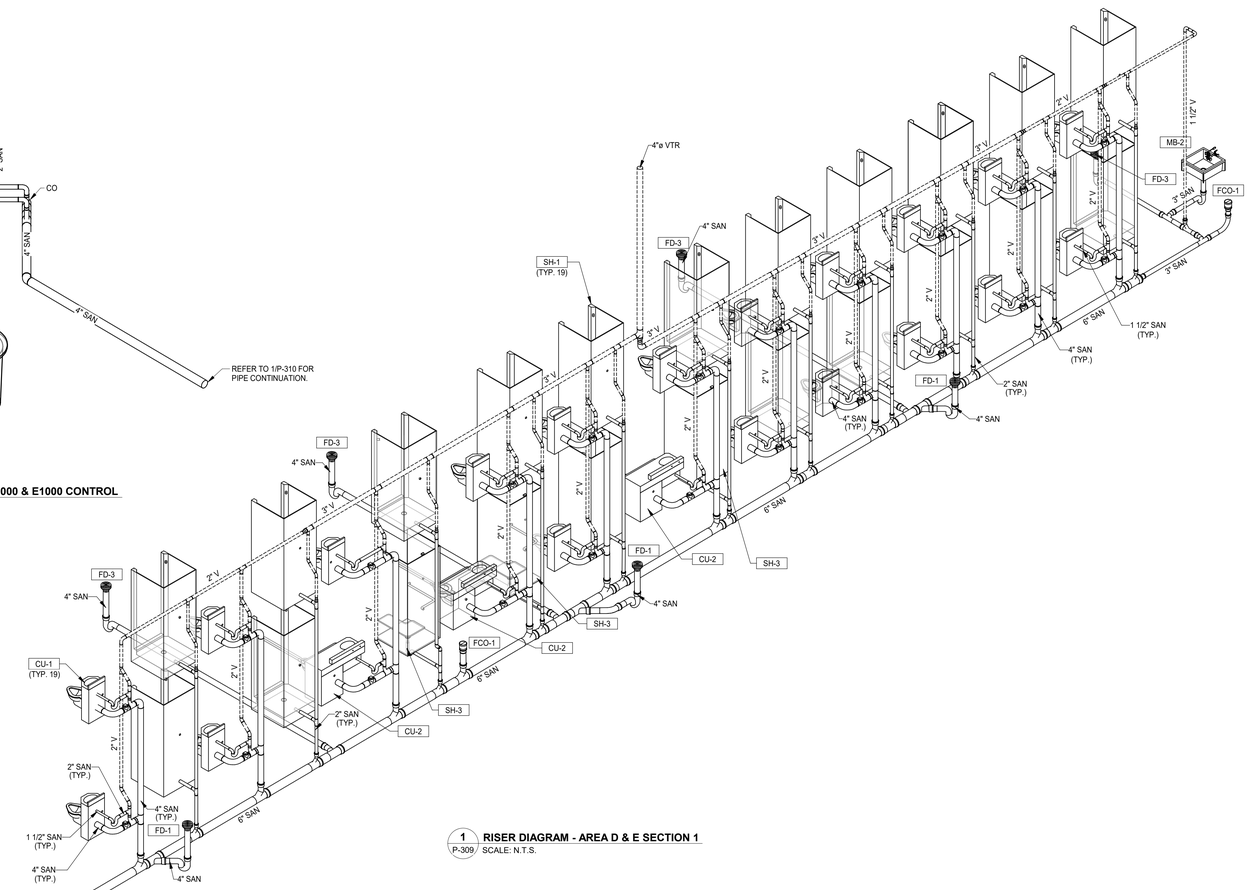
DRAWING NUMBER
P-308
PLUMBING



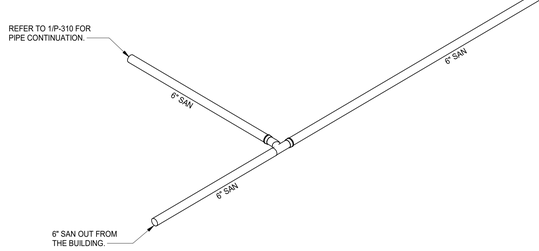
3 P-309 **RISER DIAGRAM - D1014 INMATE TOILET**
SCALE: N.T.S.



2 P-309 **RISER DIAGRAM - AREA D & E D1000 & E1000 CONTROL**
SCALE: N.T.S.



1 P-309 **RISER DIAGRAM - AREA D & E SECTION 1**
SCALE: N.T.S.



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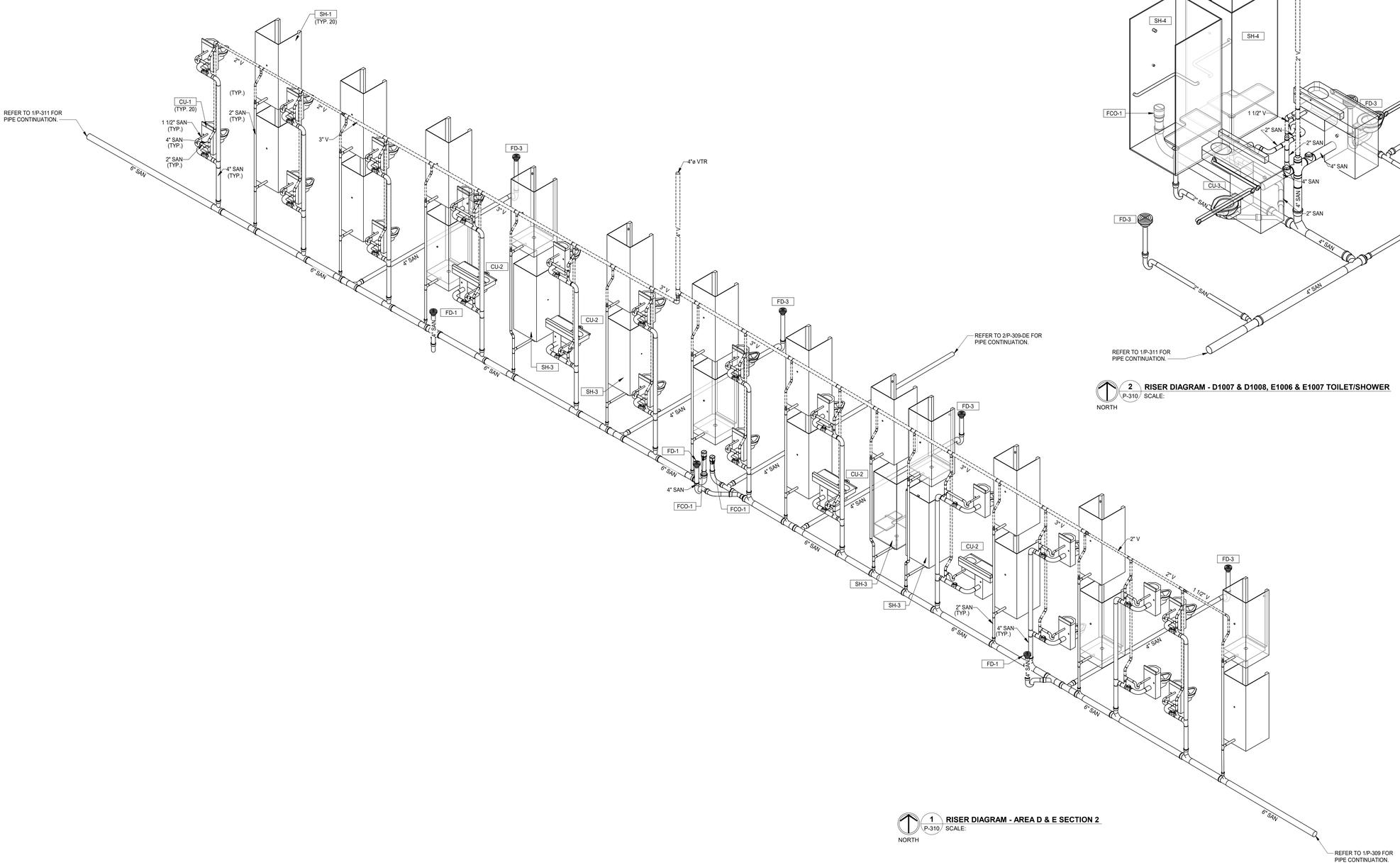
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
SAN & V RISER DIAGRAM - AREA D & E

DRAWING NUMBER P-309
PLUMBING



2 P-310 **RISER DIAGRAM - D1007 & D1008, E1006 & E1007 TOILET/SHOWER**
SCALE:

1 P-310 **RISER DIAGRAM - AREA D & E SECTION 2**
SCALE:

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PROJECT NUMBER 1663-1190-90

A NEW
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TERRE HAUTE, INDIANA

SAN & V RISER DIAGRAM - AREA D & E

DRAWING NUMBER
P-310
PLUMBING

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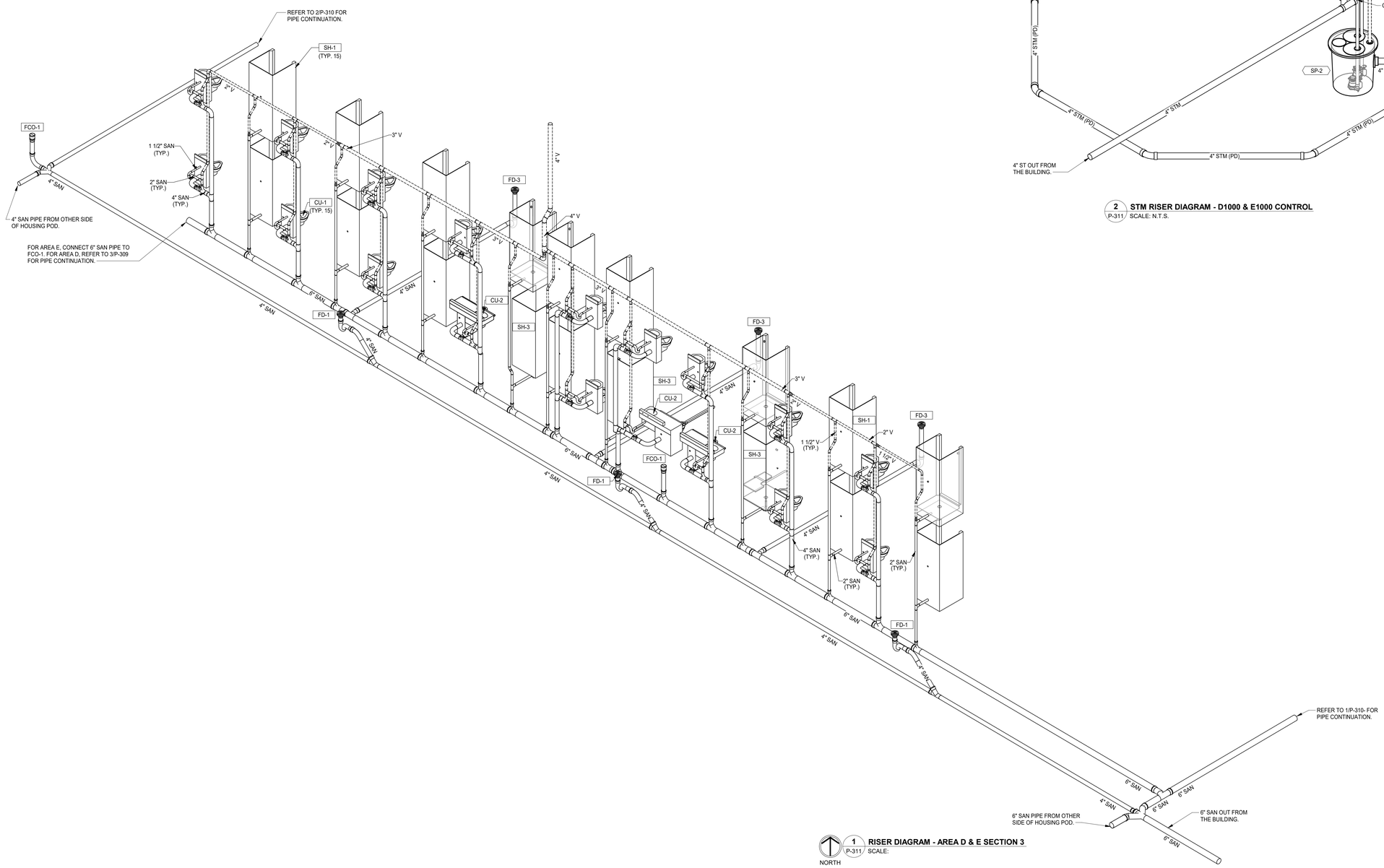
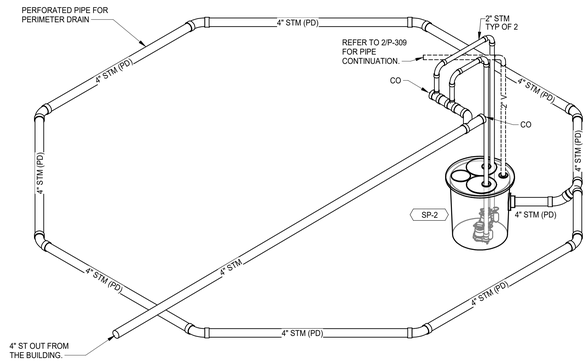


1 P-311 **RISER DIAGRAM - AREA D & E SECTION 3**
SCALE:



2 P-311 **STM RISER DIAGRAM - D1000 & E1000 CONTROL**
SCALE: N.T.S.

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NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
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SAN, V AND STM RISER DIAGRAM - AREA D & E

DRAWING NUMBER
P-311
PLUMBING

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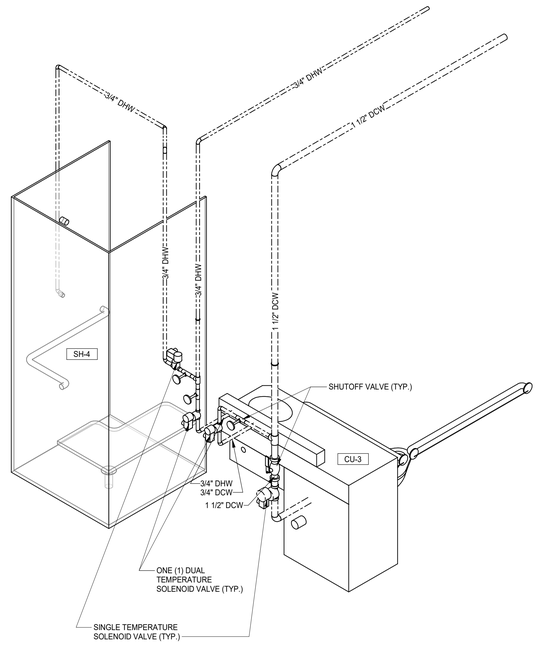
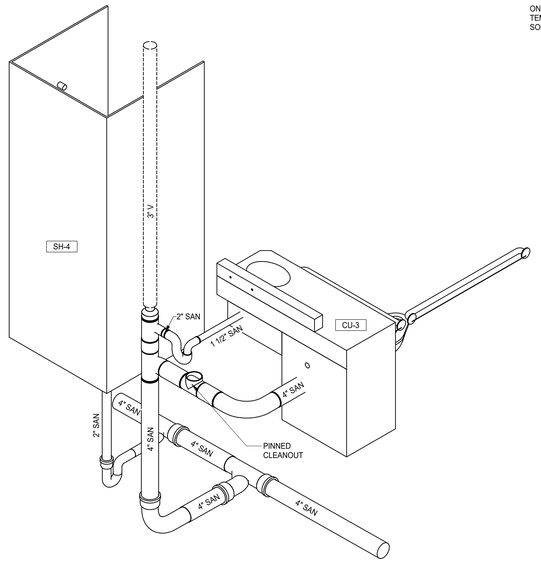
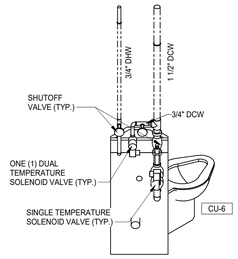


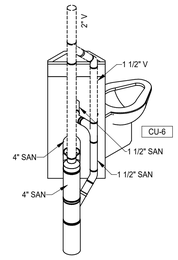
14 CU-3 WITH SH-4 DCW & DHW ISOMETRIC
P-312 SCALE: N.T.S.



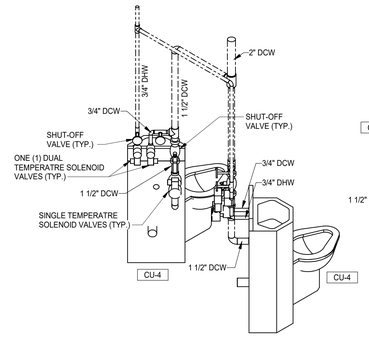
13 CU-3 WITH SH-4 SAN & V RISER DIAGRAM
P-312 SCALE: N.T.S.



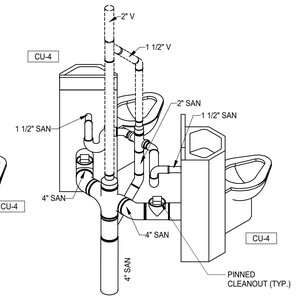
12 CU-7 DCW & DHW ISOMETRIC
P-312 SCALE: N.T.S.



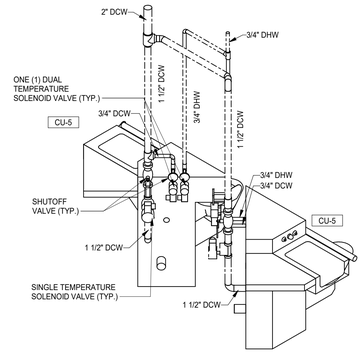
11 CU-7 SAN & V ISOMETRIC
P-312 SCALE: N.T.S.



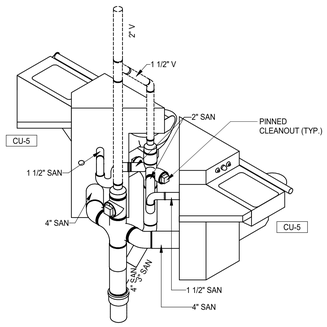
10 CU-5 & CU-5 DCW & DHW ISOMETRIC
P-312 SCALE: N.T.S.



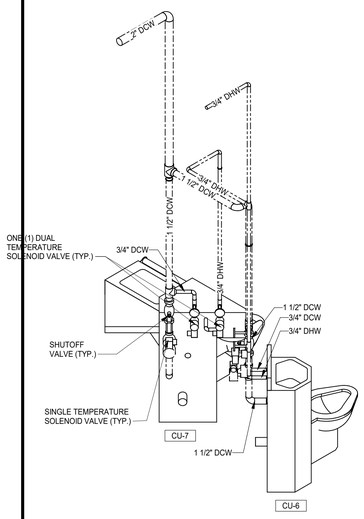
9 CU-5 & CU-5 SAN & V RISER DIAGRAM
P-312 SCALE: N.T.S.



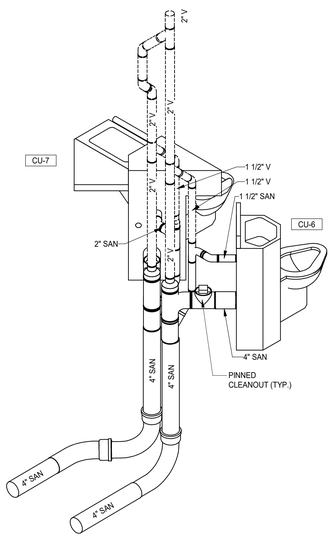
8 CU-6 & CU-6 DCW & DHW ISOMETRIC
P-312 SCALE: N.T.S.



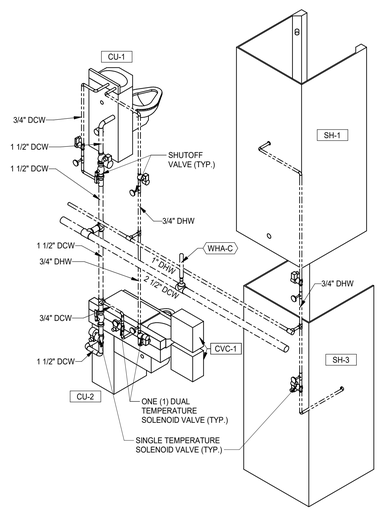
7 CU-6 & CU-6 SAN & V RISER DIAGRAM
P-312 SCALE: N.T.S.



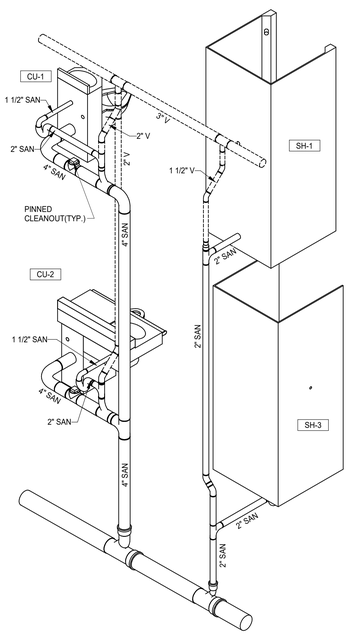
6 CU-7 & CU-8 DCW & DHW ISOMETRIC
P-312 SCALE: N.T.S.



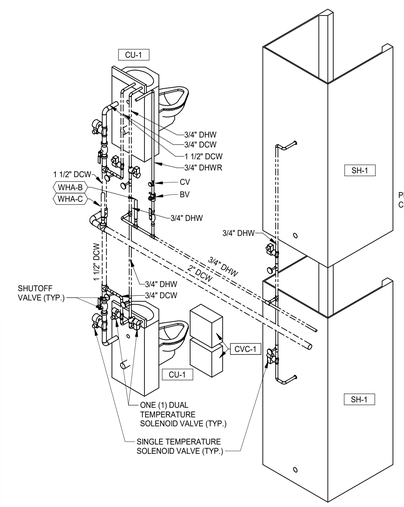
5 CU-7 & CU-8 SAN & V RISER DIAGRAM
P-312 SCALE: N.T.S.



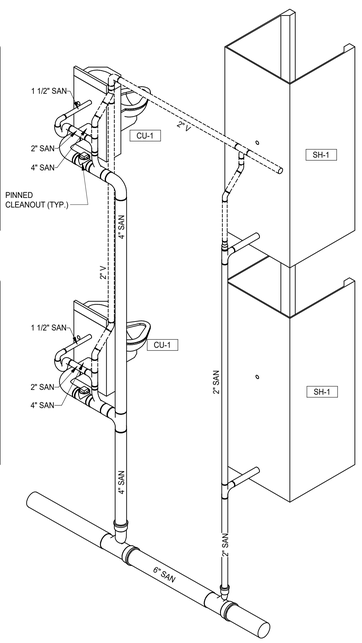
4 CU-2 & CU-3 DCW WITH SH-3 & SH-1 DHW ISOMETRIC
P-312 SCALE: N.T.S.



3 CU-2 & CU-3 DCW WITH SH-3 & SH-1 SAN & V RISER DIAGRAM
P-312 SCALE: N.T.S.



2 CU-1 & CU-1 WITH SH-1 & SH-1 DCW & DHW ISOMETRIC
P-312 SCALE: N.T.S.



1 CU-1 & CU-1 SAN WITH SH-1 & SH-1 SAN & V RISER DIAGRAM
P-312 SCALE: N.T.S.

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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/25/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
APPRVD: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

RISER & ISOMETRIC DIAGRAM - FIXTURES

DRAWING NUMBER
P-312
PLUMBING

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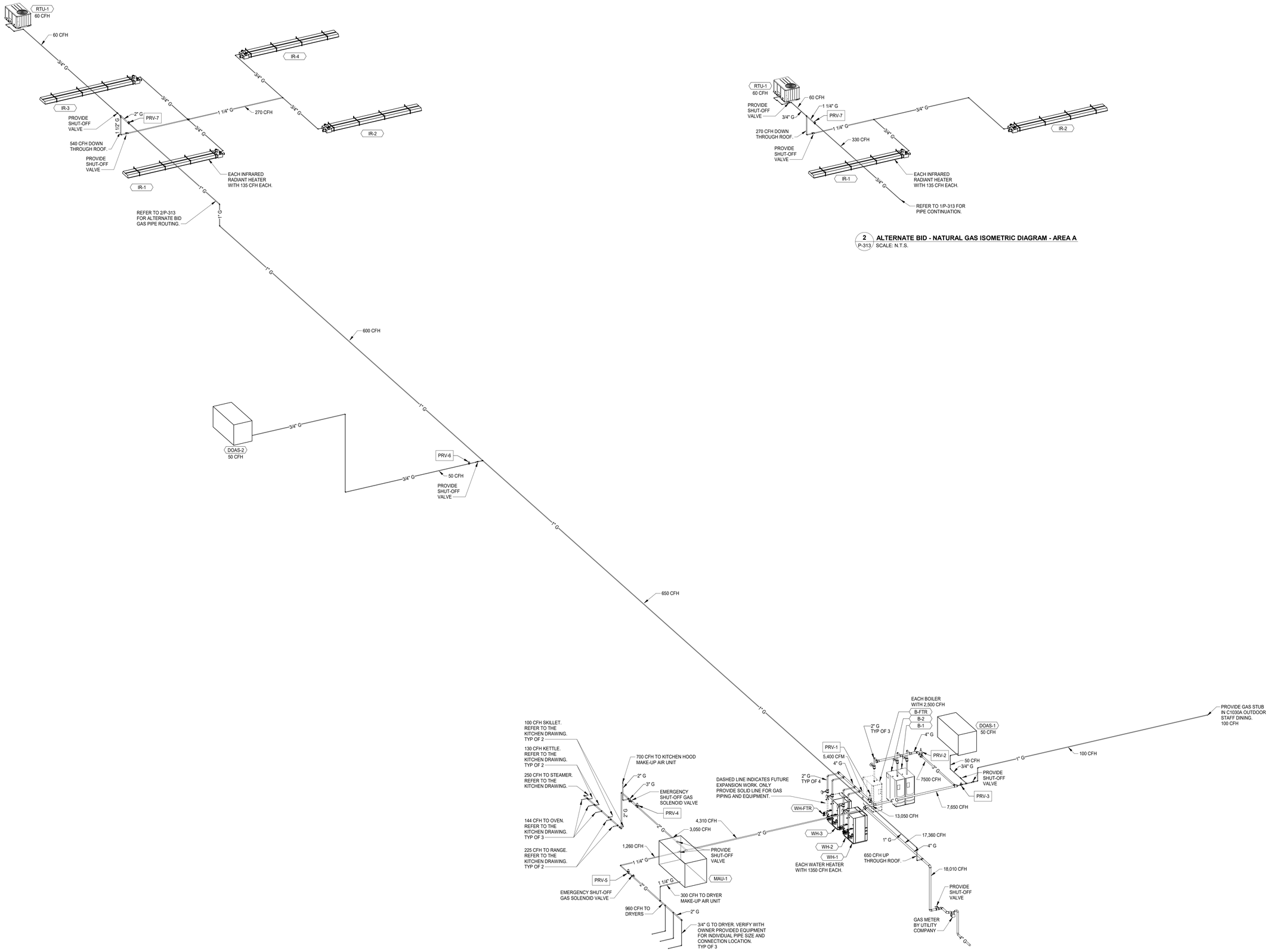
9/4/2019 4:19:27 PM



1 P-313 **BASE BID - NATURAL GAS ISOMETRIC DIAGRAM - OVERALL**
SCALE: N.T.S.

2 P-313 **ALTERNATE BID - NATURAL GAS ISOMETRIC DIAGRAM - AREA A**
SCALE: N.T.S.

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PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ISOMETRIC DIAGRAM - NATURAL GAS

DRAWING NUMBER
P-313
PLUMBING

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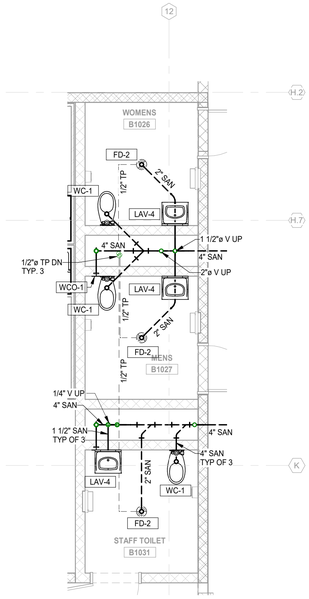
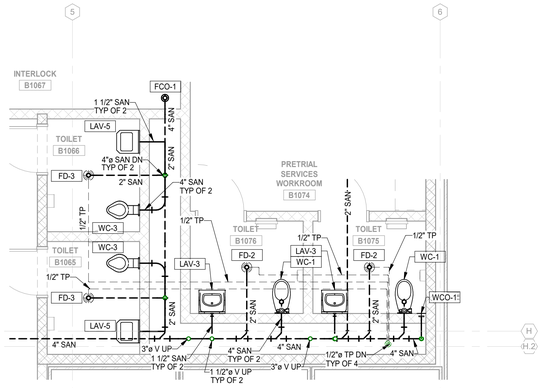
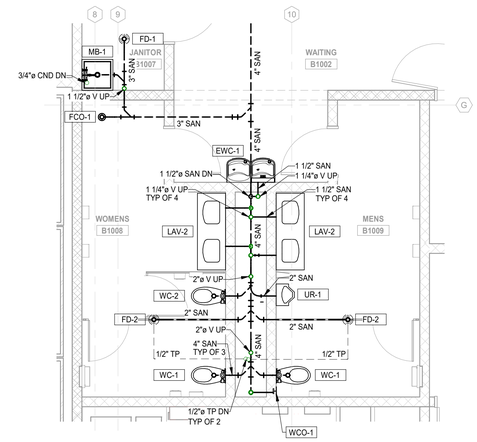


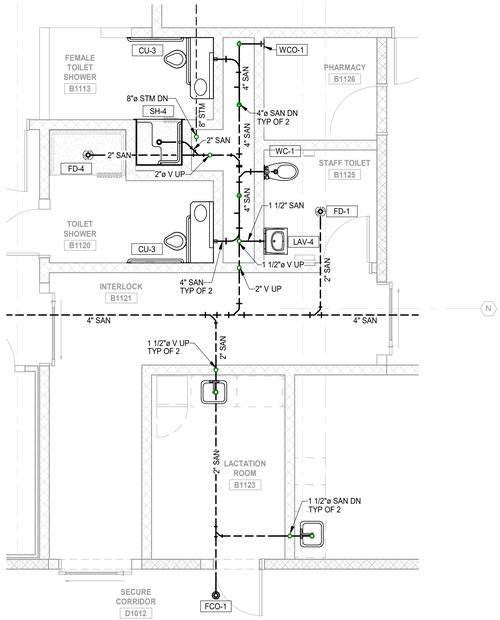
3 P-401 UNDERFLOOR PLAN - WOMENS B1026, MENS B1027, & STAFF TOILET B1031
SCALE: 1/4" = 1'-0"
NORTH



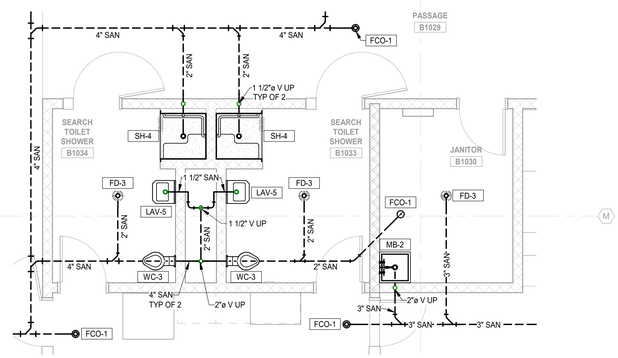
2 P-401 UNDERFLOOR PLAN - TOILET B1065, B1066, B1075, & B1076
SCALE: 1/4" = 1'-0"
NORTH



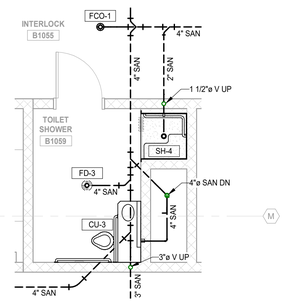
1 P-401 UNDERFLOOR PLAN - JANITOR B1007, WOMENS B1008, & MENS B1009
SCALE: 1/4" = 1'-0"
NORTH



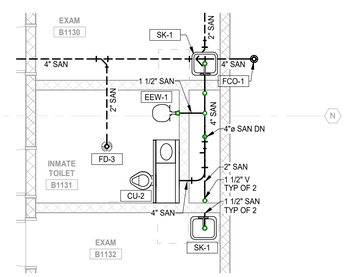
6 P-401 UNDERFLOOR PLAN - FEMALE TOILET SHOWER B1113, TOILET SHOWER B1120, & STAFF TOILET B1125
SCALE: 1/4" = 1'-0"
NORTH



5 P-401 UNDERFLOOR PLAN - SERACH TOILET SHOWER B1033, & B1034
SCALE: 1/4" = 1'-0"
NORTH

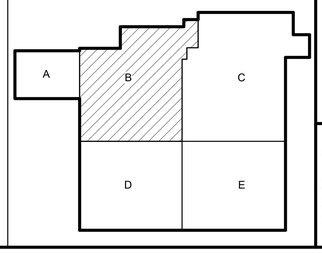


4 P-401 UNDERFLOOR PLAN - TOILET SHOWER B1059
SCALE: 1/4" = 1'-0"
NORTH



7 P-401 UNDERFLOOR PLAN - EXAM B1130, B1132, & INMATE TOILET B1131
SCALE: 1/4" = 1'-0"
NORTH

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/5/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ENLARGED PLUMBING PLAN - AREA B

DRAWING NUMBER P-401
PLUMBING

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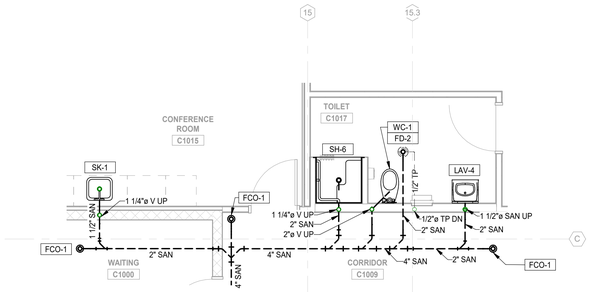
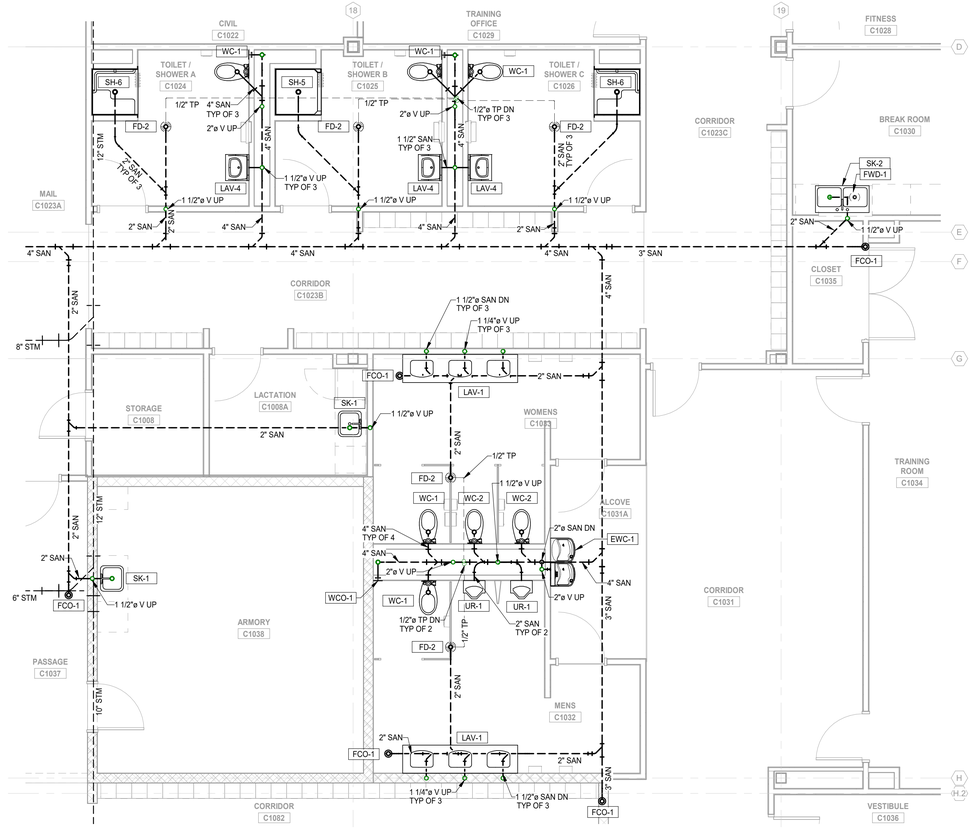
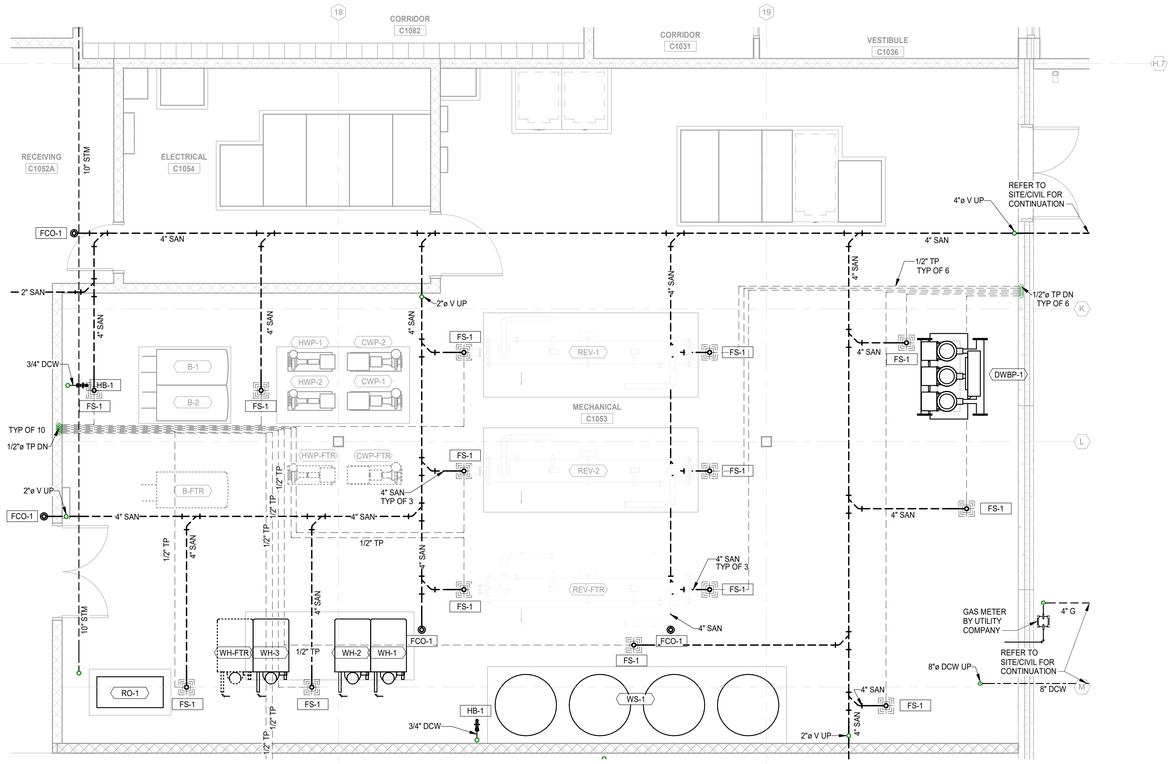
9/4/2019 4:19:51 PM



3 P-402 UNDERFLOOR PLAN - CONFERENCE ROOM C1015 & TOILET C1017
SCALE: 1/4" = 1'-0"
NORTH

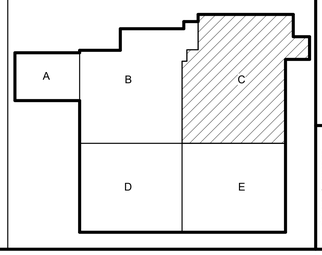


1 P-402 UNDERFLOOR PLAN - ARMORY C1038, TOILET SHOWER C1024, C1025, C1026, BREAK ROOM C1030, MENS C1032, & WOMENS C1033
SCALE: 1/4" = 1'-0"
NORTH



2 P-402 UNDERFLOOR PLAN - MECHANICAL C1051
SCALE: 1/4" = 1'-0"
NORTH

KEY PLAN



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JOSHUA R. ARLING
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PROFESSIONAL ENGINEER
6/25/19

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PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ENLARGED PLUMBING PLAN - AREA C

DRAWING NUMBER P-402
PLUMBING

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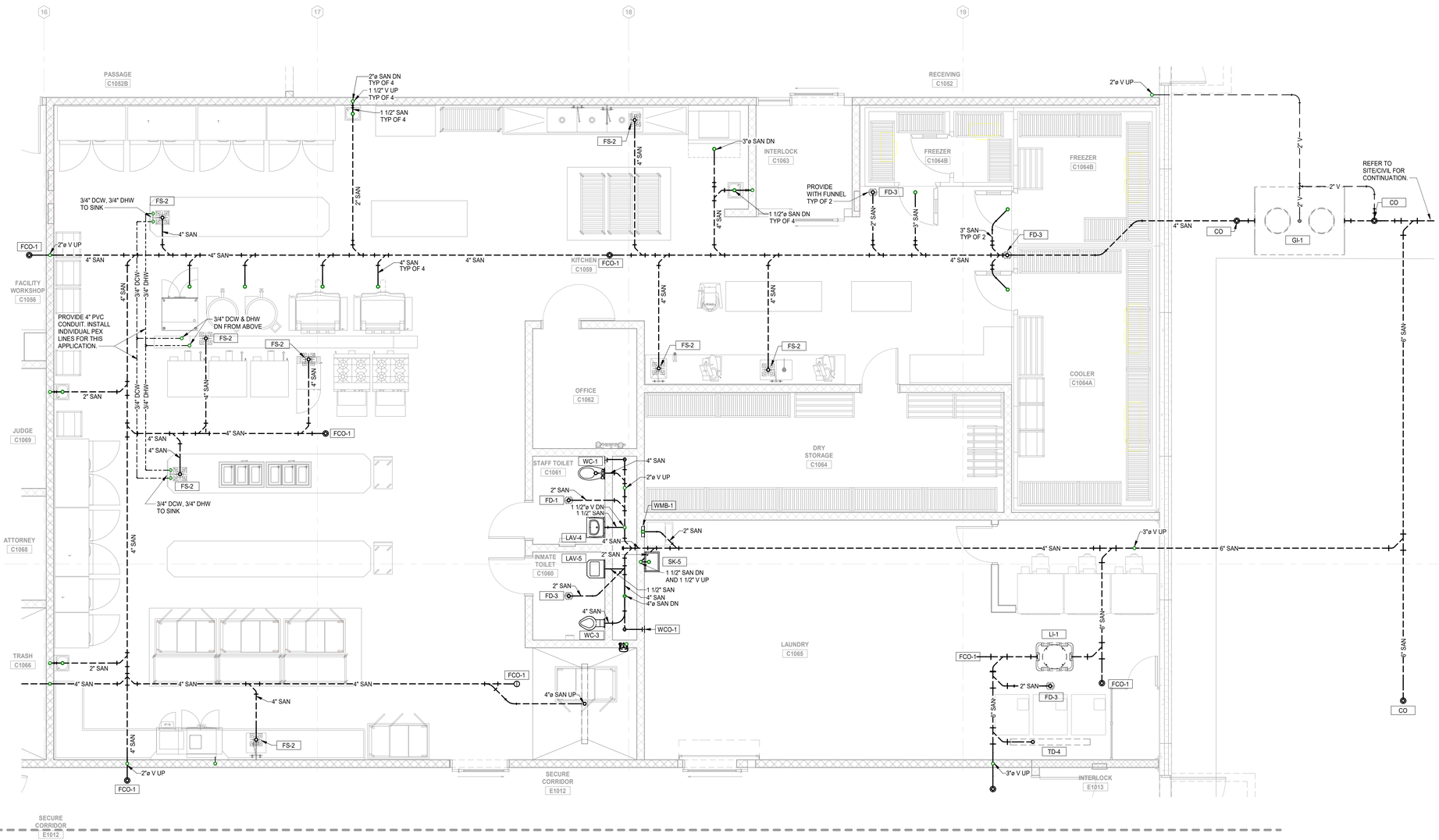
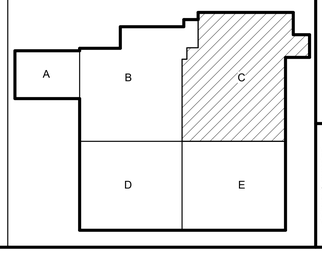


1 UNDERFLOOR - KITCHEN C1059
P-403 SCALE: 1/4" = 1'-0"

KEY PLAN



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DLZ INDIANA, LLC

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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ENLARGED PLUMBING PLAN - AREA C

DRAWING NUMBER P-403
PLUMBING

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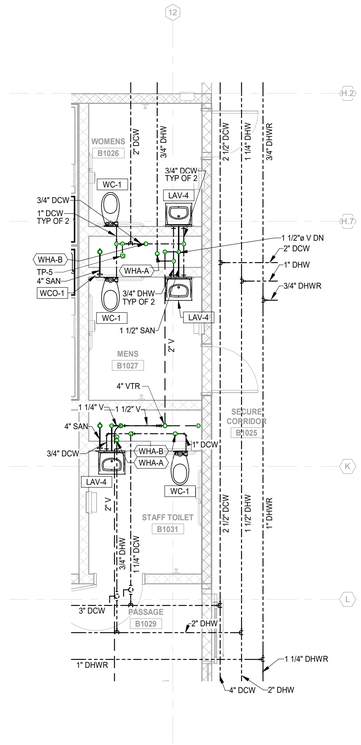
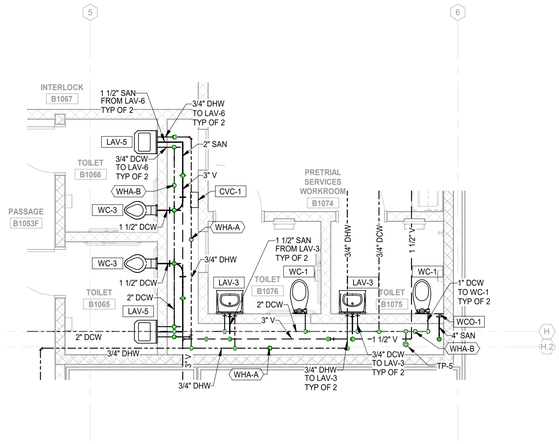
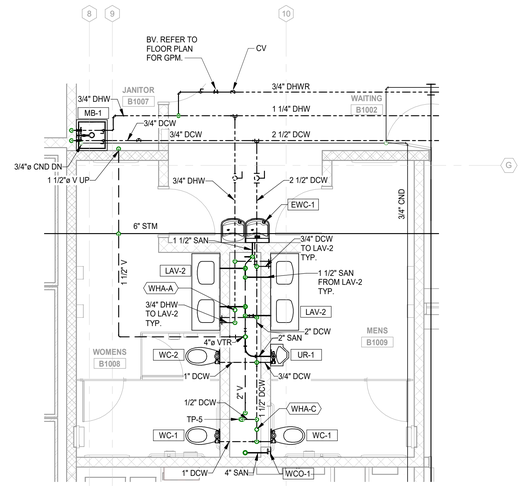


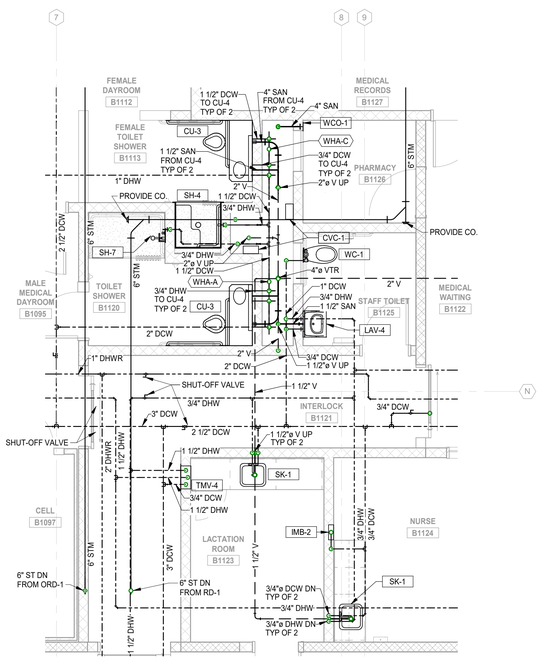
3 P-404 FIRST FLOOR PLAN - WOMENS B1026, MENS B1027, & STAFF TOILET B1031
SCALE: 1/4" = 1'-0"
NORTH



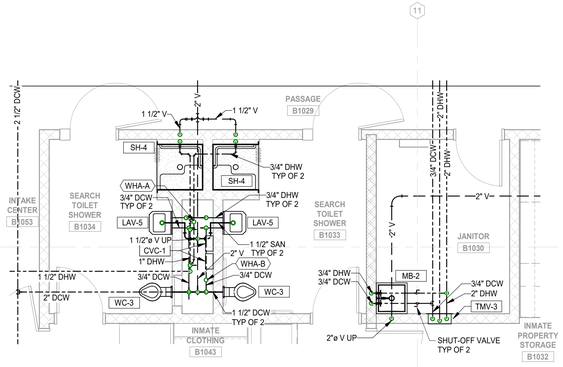
2 P-404 FIRST FLOOR PLAN - TOILET B1065, B1066, & B1075, & B1076
SCALE: 1/4" = 1'-0"
NORTH



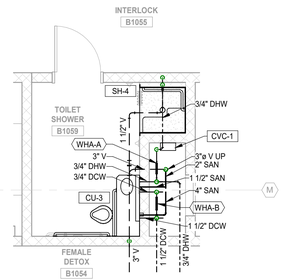
1 P-404 FIRST FLOOR PLAN - JANITOR B1007, WOMENS B1008, & MENS B1009
SCALE: 1/4" = 1'-0"
NORTH



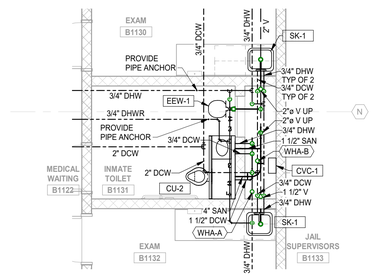
6 P-404 FIRST FLOOR PLAN - FEMALE TOILET SHOWER B1113, TOILET SHOWER B1120, & STAFF TOILET B1125
SCALE: 1/4" = 1'-0"
NORTH



5 P-404 FIRST FLOOR PLAN - SERACH TOILET SHOWER B1033, & B1034
SCALE: 1/4" = 1'-0"
NORTH

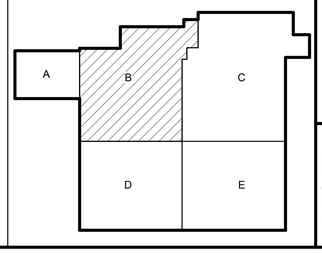


4 P-404 FIRST FLOOR PLAN - TOILET SHOWER B1059
SCALE: 1/4" = 1'-0"
NORTH



7 P-404 EXAM B1130, B1132, & INMATE TOILET B1131
SCALE: 1/4" = 1'-0"
NORTH

KEY PLAN



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JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ENLARGED PLUMBING PLAN - AREA B

DRAWING NUMBER P-404
PLUMBING

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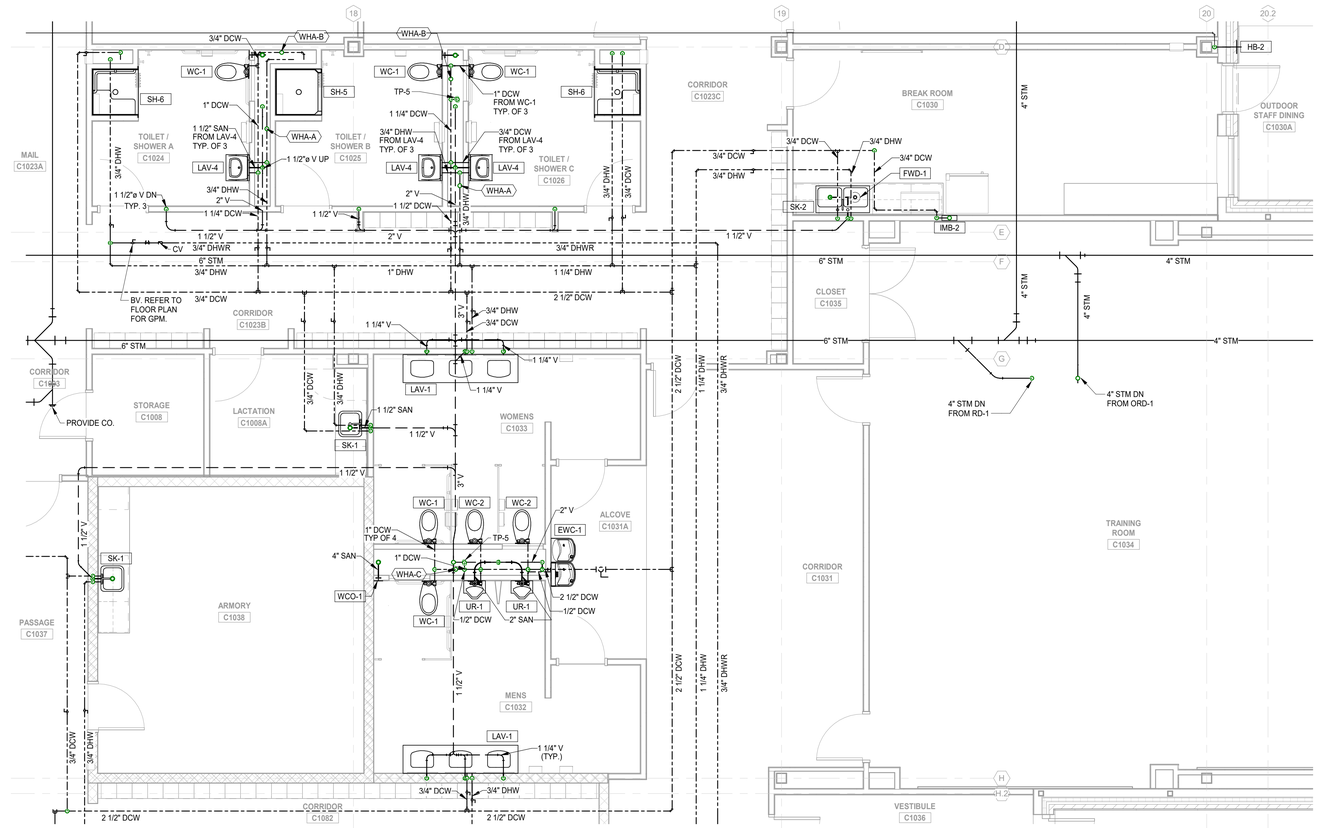
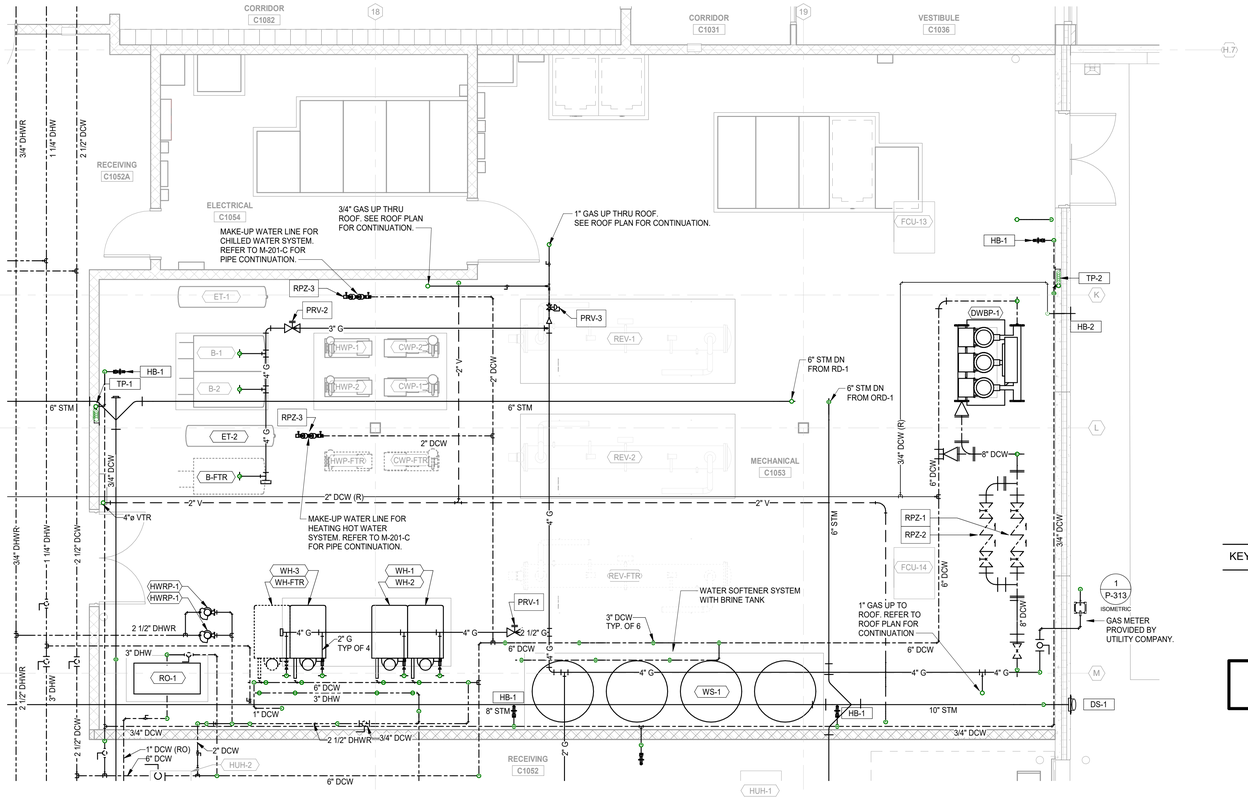
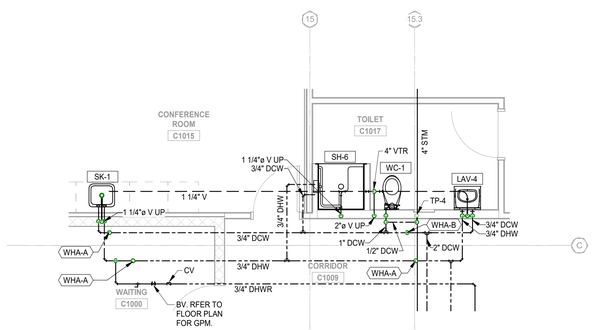
9/4/2019 4:20:29 PM



1 P-405 FIRST FLOOR PLAN - ARMORY C1038, TOILET SHOWER C1024, C1025, C1026, BREAK ROOM C1030, MENS C1032, & C1033 WOMENS
SCALE: 1/4" = 1'-0"
NORTH

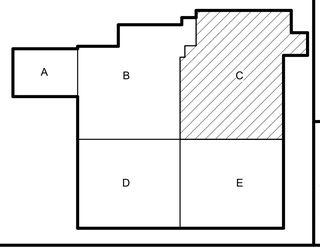


2 P-405 FIRST FLOOR PLAN - MECHANICAL C1051
SCALE: 1/4" = 1'-0"
NORTH



3 P-405 FIRST FLOOR PLAN - CONFERENCE ROOM C1015 & TOILET C1017
SCALE: 1/4" = 1'-0"
NORTH

KEY PLAN



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A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ENLARGED PLUMBING PLAN - AREA C

DRAWING NUMBER P-405
PLUMBING

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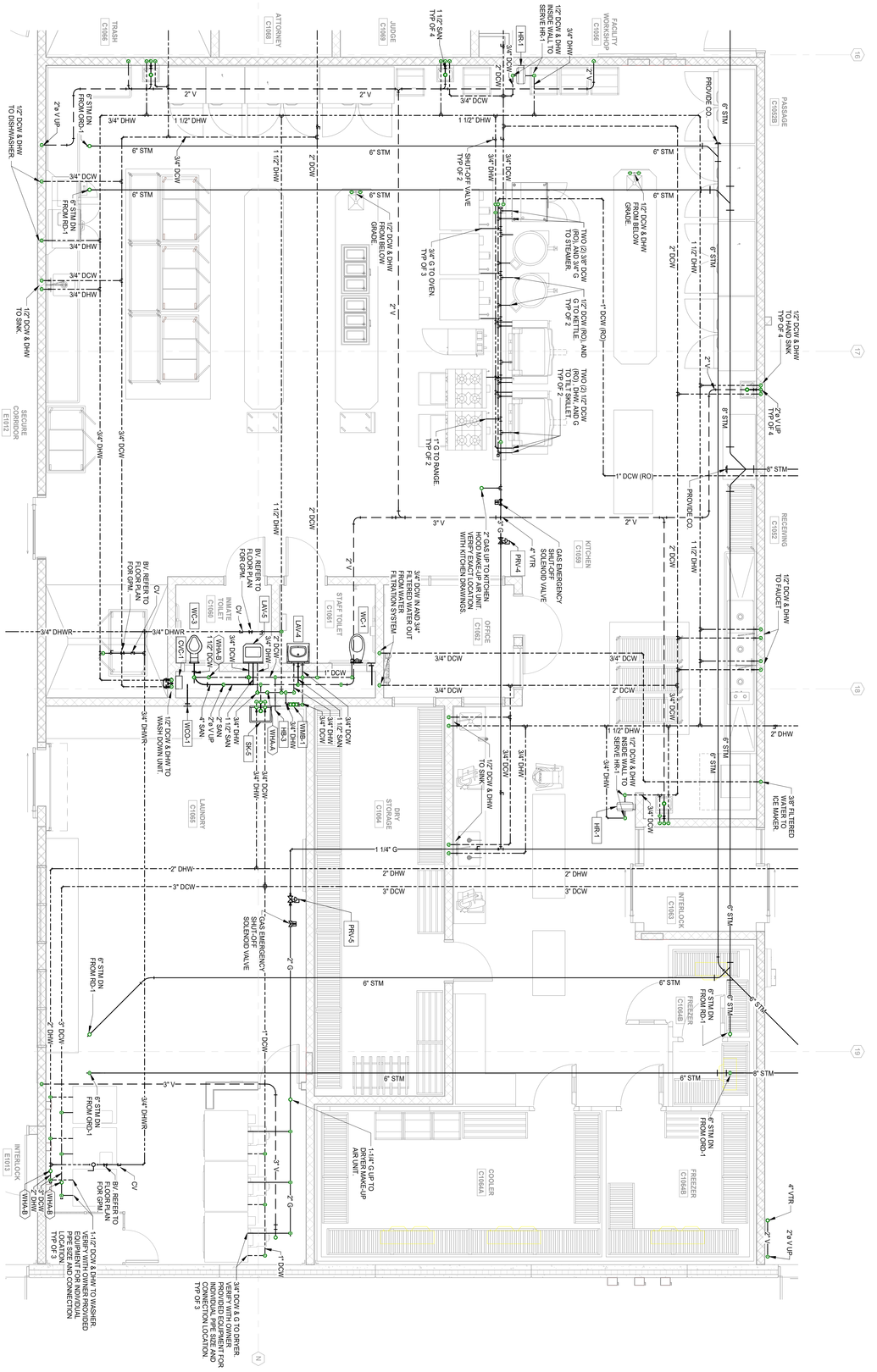
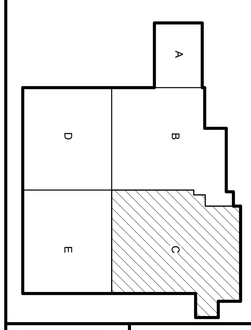


1 FIRST FLOOR PLAN - KITCHEN C1059
(P-406) SCALE: 1/4" = 1'-0"

NORTH

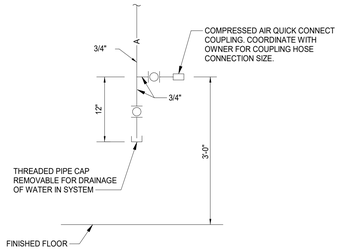


KEY PLAN

DRAWING NUMBER	A NEW VIGO COUNTY SECURITY CENTER	DRAWN: KB CHK'D: JRA	NO.	REVISION	DATE
P-406	TERRE HAUTE, INDIANA	DESIGNED: KB			
		APPRV'D: JRA			
	ENLARGED PLUMBING PLAN - AREA C	DATE: September 5, 2019			
		PROJECT NUMBER 1663-1190-90			
PLUMBING					

JOSHUA R. APLING REGISTERED PE 10090274 STATE OF INDIANA PROFESSIONAL ENGINEER 9/5/19

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC



7 P-501 **COMPRESSED AIR DROP DETAIL**
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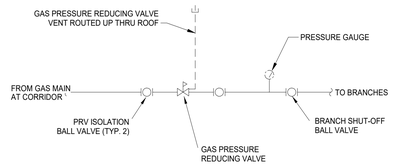

6 P-501 **GAS PRESSURE REDUCING & SHUTOFF VALVE DETAIL**
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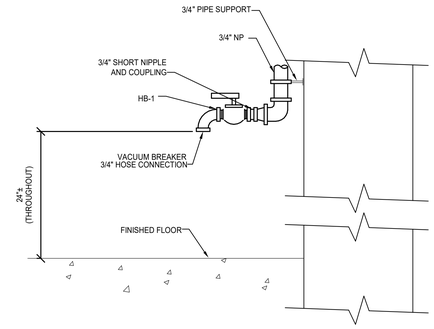
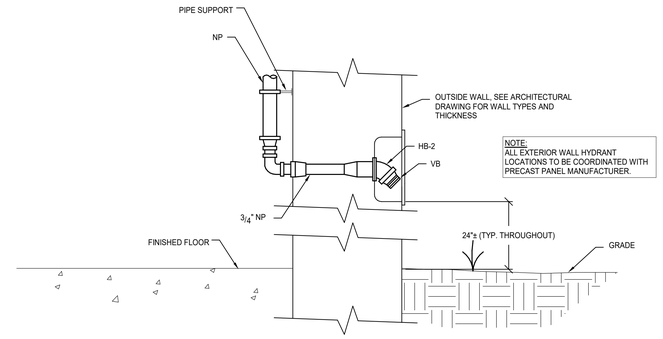
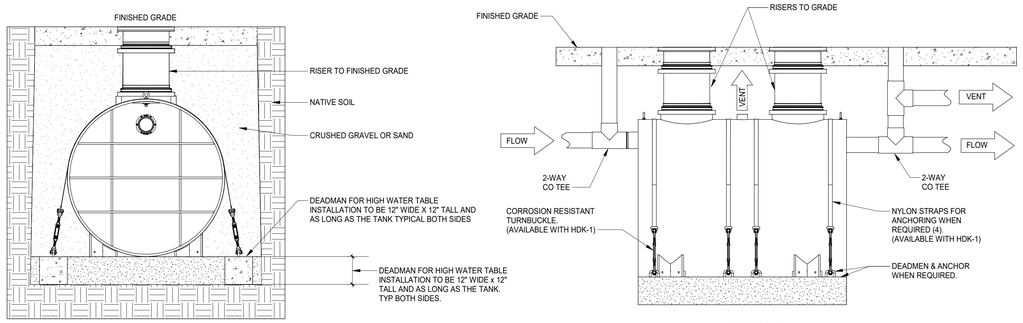


5 P-501 **HOSE BIB MOUNTING DETAIL**
SCALE: N.T.S.



4 P-501 **WALL HYDRANT MOUNTING DETAIL**
SCALE: N.T.S.



3 P-501 **OIL & GREASE INTERCEPTOR INSTALLATION DETAIL**
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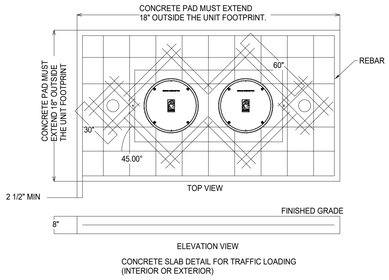
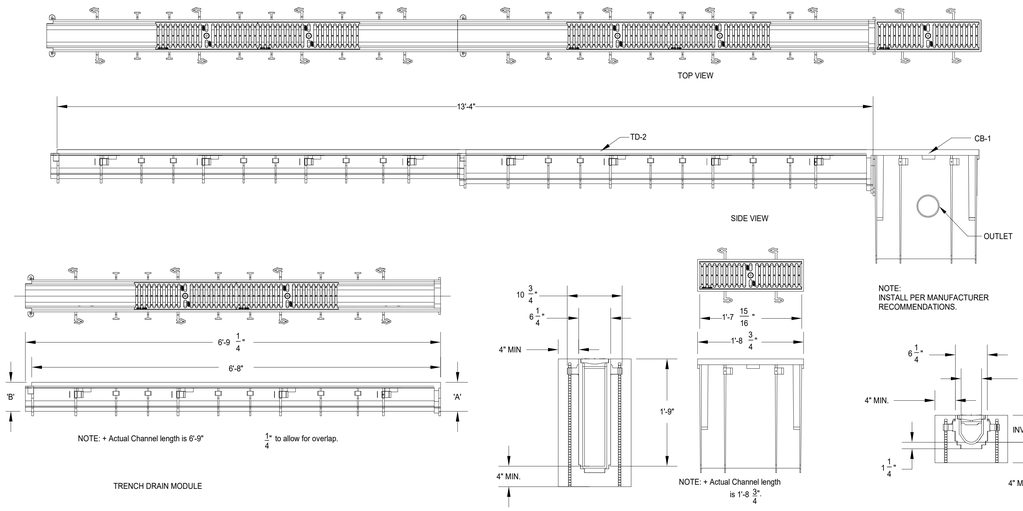
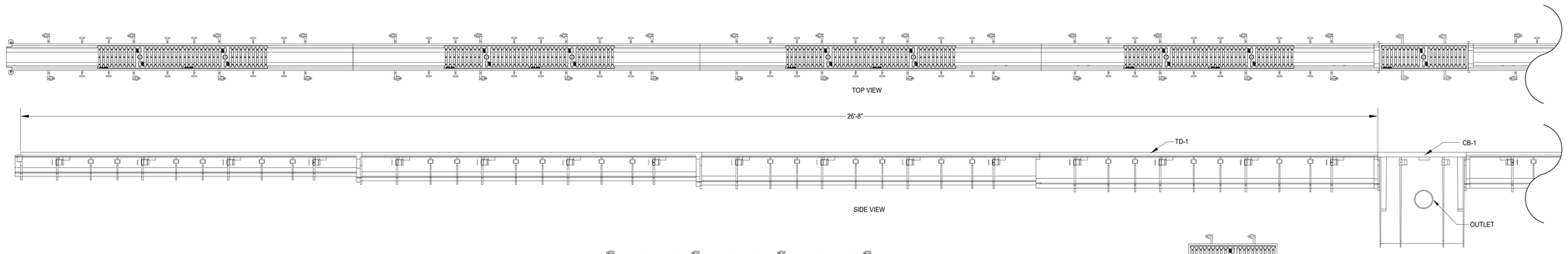
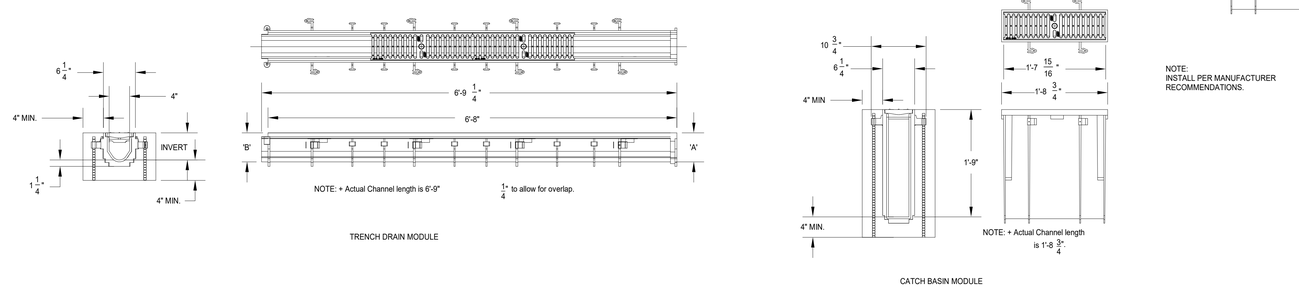




2 P-501 **TD-2 DETAIL**
SCALE: N.T.S.





1 P-501 **TD-1 DETAIL**
SCALE: N.T.S.

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ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

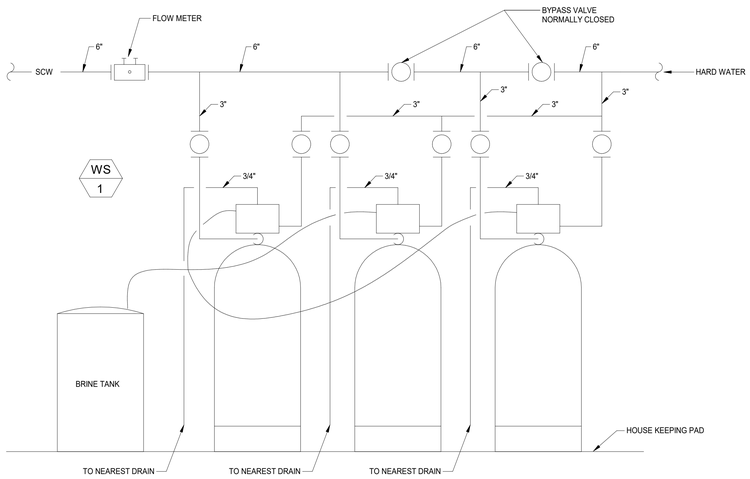
JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

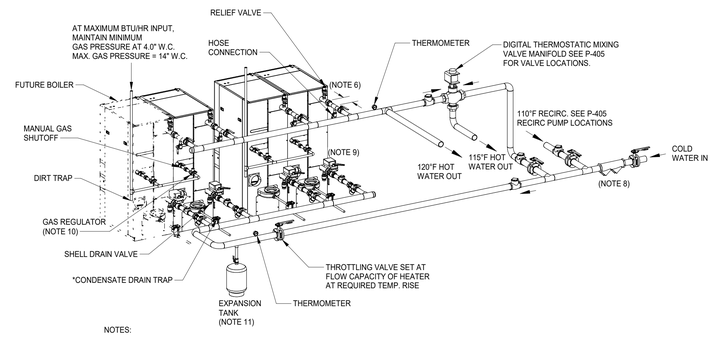
DRAWN: KB
DESIGNED: KB
CHK'D: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
PLUMBING DETAILS

DRAWING NUMBER P-501
PLUMBING



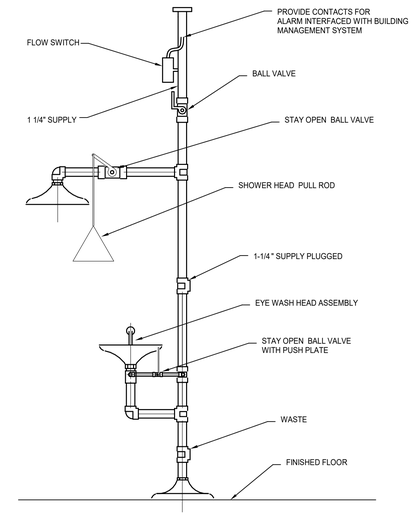
7 / P-502 **WATER SOFTNER DETAIL**
SCALE: N.T.S.



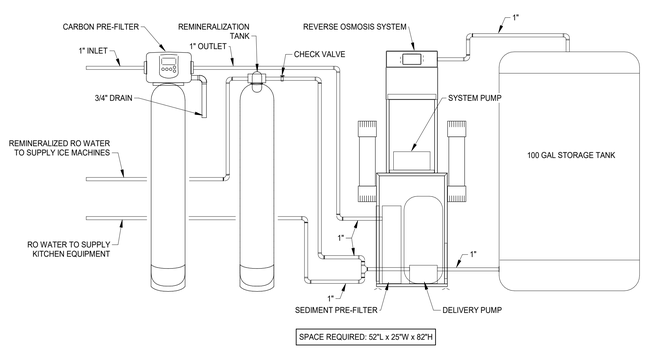
NOTES:

1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE MANUFACTURERS DIMENSIONAL DRAWING.
2. SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. RELIEF VALVE DISCHARGE SHOULD BE PIPED TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVAILABLE THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT OF AT LEAST 6" ABOVE THE FLOOR BUT NOT LESS THAN 2 PIPE DIAMETERS.
3. ALL (*) ITEMS ARE INCLUDED SEPARATELY EQUIPMENT IN SHIPMENT AND TO BE INSTALLED BY CONTRACTOR.
4. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
5. HOSE CONNECTION AT HEATER OUTLET IS FOR INITIAL HEATER CALIBRATION DURING START-UP.
6. LOCATE WATER INLET AND OUTLET FITTINGS (I.E. UNIONS, ELBOWS, ETC.) A MINIMUM OF 6" FROM WATER HEATER FITTINGS, TO PREVENT INTERFERENCE WITH REMOVAL OF HEATER PANELS.
7. HEATERS SHOULD BE PIPED REVERSE RETURN AS SHOWN OR BALANCING DEVICES ON THE OUTLETS OF THE HEATERS SHOULD BE EMPLOYED.
8. IF PERMITTED BY LOCAL CODES, A CHECK VALVE MAY BE INSTALLED IN PLACE OF A BACKFLOW PREVENTER ON THE COLD WATER SUPPLY TO THE WATER HEATERS. NOTE A BACKFLOW PREVENTER IS PROVIDED FOR THE MAIN WATER TO THE BUILDING.
9. SEQUENCING VALVES ARE REQUIRED.
10. AT 14" W.C. OR BELOW, A GAS REGULATOR IS OPTIONAL UNLESS REQUIRED BY LOCAL CODE.
11. FOR APPLICATIONS THAT PREVENT BACKFLOW (USE OF DEVICES SUCH AS CHECK VALVE, BACKFLOW PREVENTER OR PRESSURE REDUCING VALVE), A PROPERLY SIZED, POTABLE, DIAPHRAGM-TYPE THERMAL EXPANSION TANK MUST BE PLACED ON THE PIPING AS SHOWN.

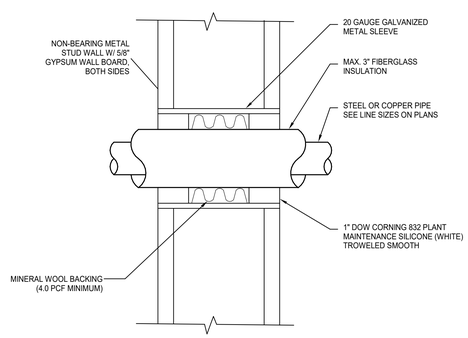
6 / P-502 **WATER HEATER DETAIL**
SCALE: N.T.S.



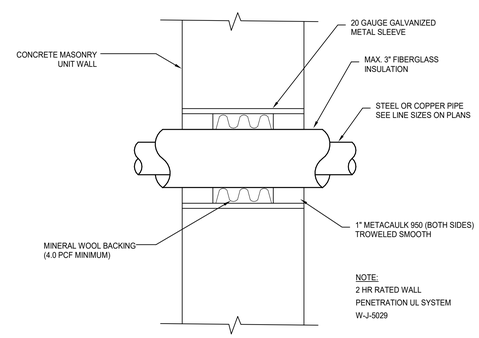
5 / P-502 **EMERGENCY EYEWASH SHOWER DETAIL**
SCALE: N.T.S.



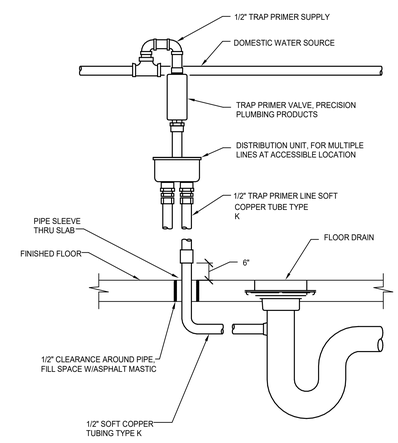
4 / P-502 **REVERSE OSMOSIS EQUIPMENT DETAIL**
SCALE: N.T.S.



3 / P-502 **PIPE WALL PENETRATION DETAIL**
SCALE: N.T.S.



2 / P-502 **PIPE FIRE/SMOKE WALL PENETRATION DETAIL**
SCALE: N.T.S.



1 / P-502 **TRAP PRIMER DETAIL**
SCALE: N.T.S.

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SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
6/5/19

NO.	REVISION	DATE

DRAWN: KB
DESIGNED: KB
APPRVD: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

CHK'D: JRA

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PLUMBING DETAILS

DRAWING NUMBER
P-502
PLUMBING

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PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	ACCEPTABLE MANUFACTURER	SAN/ WASTE	VENT	COLD WATER	HOT WATER	REMARKS
CB-1	CATCH BASIN	6"x21"x21" DEEP CATCH BASIN MADE OF HIGH DENSITY POLYETHELENE, EXTRA HEAVY DUTY GRATE, 4" OUTLET AND 1/4" MESH SCREEN ON OUTLET.	ZURN MODEL Z887-6-E4-IA-DGC	4"	-	-	-	LOCATED IN A1000 VEHICLE SALLYPORT ■ COMPATIBLE WITH SPECIFIED TD-1. ■ SEE DETAIL 1/P-501.
CB-2	CATCH BASIN	6"x21"x21" DEEP CATCH BASIN MADE OF HIGH DENSITY POLYETHELENE, EXTRA HEAVY DUTY GRATE, 4" OUTLET AND 1/4" MESH SCREEN ON OUTLET.	ZURN MODEL Z887-6-E4-IA-DGC	4"	-	-	-	LOCATED IN A1003 VEHICLE EVIDENCE STORAGE ■ COMPATIBLE WITH SPECIFIED TD-2. ■ SEE DETAIL 2/P-501
CU-1	COMBINATION UNIT (PREFABRICATED CELL)	18" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x5.5" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, ELBOW WASTE (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, RECESSED TISSUE HOLDER, AND SINGLE TOWEL HOOK. UNIT SHALL BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-1846-C-ON-BPH-1.6-E1L2-PZPB-WMSII-EB-OV-LW1-SLOW-TWE-PCB4-TWC4C-ET4-EFVP-FVT-RTH-TH1-TF24H-WS-SK	4"	2"	1-1/2"	1/2"	PROVIDED BY PREMANUFACTURED STEEL CELL MANUFACTURER.
CU-2	COMBINATION UNIT (PREFABRICATED CELL)	48" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. UNIT SHALL INCLUDE A GRAB BARS AND MODIFIED WITH CABINET EXTENSION AND CLOSURE PLATE FOR GRAB BAR. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. VERIFY ORIENTATION WITH PLANS. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x6" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, ELBOW WASTE (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, GRAB BARS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, AND SINGLE TOWEL HOOK. FIXTURE TO BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-4896-L/R-ON-BPH-1.6-E1L2-PZPB-WMSII-EB-OV-LW1-SLOW-TWE-PCB4-TWC4C-ET4-EFVP-FVT-TF24H-WS	4"	2"	1-1/2"	1/2"	ADA COMPLIANT ■ PROVIDED BY PREMANUFACTURED STEEL CELL MANUFACTURER.
CU-3	COMBINATION UNIT	48" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. UNIT SHALL INCLUDE A GRAB BARS AND MODIFIED WITH CABINET EXTENSION AND CLOSURE PLATE FOR GRAB BAR. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. VERIFY ORIENTATION WITH PLANS. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x6" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, ELBOW WASTE (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, GRAB BARS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, AND SINGLE TOWEL HOOK. FIXTURE TO BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-4896-L/R-ON-BPH-1.6-E1L2-PZPB-WMSII-EB-OV-LW1-SLOW-TWE-PCB4-TWC4C-ET4-EFVP-FVT-TF24H-WS	4"	2"	1-1/2"	1/2"	ADA COMPLIANT
CU-4	COMBINATION UNIT (PREFABRICATED CELL)	15" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x5.5" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, ELBOW WASTE (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, RECESSED TISSUE HOLDER, AND SINGLE TOWEL HOOK. UNIT SHALL BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-1546-L/R-ON-BPH-1.6-E1L2-PZPB-WMSII-EB-OV-LW1-SLOW-TWE-PCB4-TWC4C-ET4-EFVP-FVT-RTH-TF24H-WS-SK	4"	2"	1-1/2"	1/2"	PROVIDED BY PREMANUFACTURED STEEL CELL MANUFACTURER.
CU-5	COMBINATION UNIT (PREFABRICATED CELL)	15" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. UNIT SHALL INCLUDE A GRAB BARS AND MODIFIED WITH CABINET EXTENSION AND CLOSURE PLATE FOR GRAB BAR. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. VERIFY ORIENTATION WITH PLANS. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x6" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, ELBOW WASTE (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, GRAB BARS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, AND SINGLE TOWEL HOOK. FIXTURE TO BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-1545-L/R-ON-BPH-1.6-E1L2-PZPB-WMSII-EB-OV-LW1-SLOW-TWE-COHB4-TWC4C-ET4-EFVP-FVT-TF24H-WS-SK-LVCP	4"	2"	1-1/2"	1/2"	ADA COMPLIANT ■ PROVIDED BY PREMANUFACTURED STEEL CELL MANUFACTURER.
CU-6	COMBINATION UNIT (PREFABRICATED CELL)	15" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x5.5" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, INTEGRAL P-TRAP (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, RECESSED TISSUE HOLDER, AND SINGLE TOWEL HOOK. UNIT SHALL BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-1546-L/R-ON-BPH-1.6-E1L2-PZPB-WMSII-PT-OV-LW2-SLOW-TWE-PCB4-TWC4C-ET4-EFVP-FVT-RTH-TF24H-WS-SK	4"	2"	1-1/2"	1/2"	PROVIDED BY PREMANUFACTURED STEEL CELL MANUFACTURER.
CU-7	COMBINATION UNIT (PREFABRICATED CELL)	15" WIDE FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. UNIT SHALL INCLUDE A GRAB BARS AND MODIFIED WITH CABINET EXTENSION AND CLOSURE PLATE FOR GRAB BAR. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. VERIFY ORIENTATION WITH PLANS. ■ STANDARD TOILET SHALL INCLUDE: ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL AND FULLY ENCLOSED 2-1/2"O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. TOILET SHALL BE BLOWOUT TYPE WHICH REQUIRES 35 PSI MINIMUM FLUSHING PRESSURE. 1.6 GPF ■ STANDARD LAVATORY SHALL INCLUDE: OVAL SHAPED BOWL 13"x9.5"x6" DEEP, STAINLESS STEEL FILLER/BUBBLER, FAST DRAIN WITH AIR VENT, ELBOW WASTE (1-1/2" FIP) AND SELF DRAINING SOAP DISH. 0.5 GPM WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS ■ ACCESSORIES: ON FLOOR MOUNTING, LIGATURE RESISTANT BUBBLER/FILLER, PUSH BUTTONS, GRAB BARS, AND TOILET SKIRT, LAVATORY OVERFLOW, MANUAL RESET TOILET OVERFLOW PREVENTER, AND SINGLE TOWEL HOOK. FIXTURE TO BE COMPATIBLE WITH ELECTRONIC WATER MANAGEMENT SYSTEM.	WILLOUGHBY MODEL ECW-1545-L/R-ON-BPH-1.6-E1L2-PZPB-WMSII-PT-OV-LW2-SLOW-TWE-COHB4-TWC4C-ET4-EFVP-FVT-TF24H-WS-SK-LVCP	4"	2"	1-1/2"	1/2"	ADA COMPLIANT ■ PROVIDED BY PREMANUFACTURED STEEL CELL MANUFACTURER.
CVC-1	CELL VALVE CONTROLLER	WATER MANAGEMENT SYSTEM CONTROL PANEL/TRANSFORMER. LOCATION AND QUANTITY OF FIXTURES CONTROL BY EACH CVC SHALL BE AS REQUIRED BY MANUFACTURER. 115V/1PH	WILLOUGHBY WMSII	-	-	-	-	
DS-1	DOWNSPOUT NOZZLE	CAST BRONZE DOWNSPOUT NOZZLE, LOOSE WALL FLANGE, AND INLET THREADED CONNECTION.	ZURN MODEL Z199	-	-	-	-	MATCH PIPE SIZE INDICATED ON DRAWINGS. ■ PROVIDE CENTER ELEVATION OF DOWNSPOUT AT 1' 4".
DT-1	DETOX TOILET	FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. THE CONSTRUCTION SHALL BE ALL WELDED WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH WITH THE EXCEPTION OF THE BOWL, WHICH SHALL HAVE A GLASS BLAST FINISH. STANDARD EQUIPMENT SHALL INCLUDE: 14" ROUND BOWL, 2" TOP BAND, REMOVABLE 7 GA. STAINLESS STEEL TOP GRATE WITH SECURITY SCREWS FOR ACCESS TO BOWL INTERIOR. BLOWOUT TYPE REQUIRING 25 PSI MINIMUM FLUSHING PRESSURE. TRAP SHALL BE INCLUDED, 3-1/2" SEAL AND PASS 2-5/8" BALL. THE REMOTE FLUSH VALVE SHALL BE NON-HOLD OPEN TYPE. PROVIDE ELECTRONIC SOLENOID VALVE KIT, PIEZO PUSHBUTTON, AND FLUSH CONTROLLER WITH TRANSFORMER. FLUSH VALVE AND PUSH BUTTON SHALL BE LOCATED IN A WALL BOX WITH COVER AND SECURITY SCREWS. WALL BOX BRACKETS FABRICATED FROM 20 GAUGE GALVANIZED STEEL.	WILLOUGHBY MODEL FD-1400-WF-1.6-RFVB ■ CONTROLLER - WUFC-4400 WITH TF24 TRANSFORMER	3"	1-1/2"	1"	-	
EEW-1	EMERGENCY EYEWASH	PLASTIC TYPE BOWL, HEAVY GAUGE SAND CAST ALUMINUM WALL BRACKET WITH SAFETY YELLOW COATING, 1-1/4" DRAIN FITTING AND TAILPIECE, 1/2" STAY OPEN EYE AND EYE/FACE WASH VALVE MANUFACTURED FROM CHROME PLATED BRASS. EYES INCLUDES INTEGRAL FLOW CONTROL, FLIP OPEN DUST COVERS, AND TYPE 304 STAINLESS STEEL PUSH HANDLE. INCLUDE EMERGENCY THERMOSTATIC MIXING VALVE ACCESSORY. ■ PROVIDE FLOW SWITCH AND CONTACTS FOR ALARM TO BMS.	BRADLEY MODEL S19224FPWT ■ TEMPERED WATER BLENDING SYSTEM - BRADLEY MODEL S19-2000 EFX8	1-1/2"	1-1/2"	1-1/4"	1"	ADA COMPLIANT
EEWS-1	EMERGENCY EYEWASH/SHOWER	COMBINATION SHOWER AND EYE/FACE WASH - STAINLESS STEEL 11" ROUND BOWL, EYE/FACE WASH HEAD SHALL HAVE INVERTED DIRECTIONAL LAMINAR FLOW WHICH ACHIEVES ZERO VERTICAL VELOCITY SUPPLIED BY AN INTEGRAL FLOW CONTROL, HYDRODYNAMIC DESIGNED ABS PLASTIC SHOWERHEAD WITH FLOW CONTROL, CHROME-PLATED BRASS STAY-OPEN BALL VALVE EQUIPPED WITH STAINLESS STEEL BALL AND STEM, AND CHROME-PLATED BRASS IN-LINE 50x50 MESH WATER STRAINER, SCHEDULE 40 HOT-DIPPED GALVANIZED STEEL PIPE AND FITTINGS, POWDER COATED CAST IRON 9" DIAMETER FLOOR FLANGE, SELF ADHESIVE HIGH VISIBILITY SAFETY GREEN AND BRIGHT YELLOW STRIPES, UNIVERSAL SIGN, AND 1-1/4" IPS SUPPLY. ■ TEMPERED WATER BLENDING SYSTEM: THERMOSTATIC MIXING VALVE, PARAFFIN-FILLED THERMOSTATIC ELEMENT, MODULAR BRASS DESIGN WITH A ONE-PIECE CASTING, INTERNAL CHECK STOPS, OVERSIZED VALVE SEATS, LIME AND CALCIUM RESISTANT COMPONENTS. PRESSURE DROP OF 2 PSI @ 20 GPM. ■ PROVIDE FLOW SWITCH AND CONTACTS FOR ALARM TO BMS	BRADLEY MODEL S19314BFPB ■ TEMPERED WATER BLENDING SYSTEM - BRADLEY MODEL S19-2100 EFX25	1-1/2"	1-1/2"	1-1/4"	1"	SEE DETAIL 6/P-502.
EWC-1	ELECTRIC WATER COOLER	BI-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION. UNIT SHALL DELIVER 8 GPH OF 50°F DRINKING WATER AT 90°F AMBIENT AND 80°F INLET WATER. UNITS SHALL HAVE PUSHBAR ACTIVATION. BOTTLE FILLING UNIT SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OFF TIMER. BOTTLE FILLER SHALL PROVIDE 1.1 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. INCLUDE 3000-GALLON CAPACITY FILTER CERTIFIED TO NSF/ANSI 42 AND 53 WITH VISUAL MONITOR TO INDICATE WHEN REPLACEMENT IS NECESSARY. INCLUDE INTEGRATED SILVER ION ANTI-MICROBIAL PROTECTION IN KEY AREAS AND LEAD-FREE DESIGN. ELECTRICAL REQ'S: 115V, 370 W, 5 FLA	ELKAY MODEL LZSTL8WS	1-1/4"	1-1/4"	1/2"	-	ADA COMPLIANT
FCO-1	FLOOR CLEANOUT	ADJUSTABLE LEVELING FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED LIGHT-DUTY TOP WITH ADDITIONAL LEVELING ADJUSTMENT TO FINISHED FLOOR. PROVIDE SECURITY FASTENERS IN SECURE AREAS.	ZURN MODEL Z1400-BZ-ZS-VP	VARY	-	-	-	MATCH PIPE SIZE
FD-1	FLOOR DRAIN	LACQUERED CAST IRON FLOOR DRAIN WITH 5"' ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE.	ZURN MODEL Z415B-2,3,4-ZN-Y	VARY	-	-	-	MATCH PIPE SIZE. ■ PROVIDE WITH TRAP PROTECTION DEVICE SIMILAR TO SURESEAL.
FD-2	FLOOR DRAIN	LACQUERED CAST IRON FLOOR DRAIN WITH 5"' ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE DEEP SEAL TRAP WITH 1/2" TRAP PRIMER CONNECTION.	ZURN MODEL Z415B-2,3,4-ZN-Y WITH MODEL Z-1000-P DEEP SEAL TRAP	VARY	-	-	-	MATCH PIPE SIZE. ■ PROVIDE WITH TRAP PRIMER. ■ SEE DETAIL 1/P-502.
FD-3	FLOOR DRAIN (SECURITY)	LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5"' ROUND STAINLESS STEEL, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE. PROVIDE SECURITY SCREWS FOR USE IN CORRECTIONAL FACILITY.	ZURN MODEL Z415B-2,3,4-ZN-Y-VP	VARY	-	-	-	MATCH PIPE SIZE. ■ PROVIDE WITH TRAP PROTECTION DEVICE SIMILAR TO SURESEAL.
FD-4	FLOOR DRAIN (SECURITY SHOWER)	LACQUERED CAST IRON FLOOR DRAIN WITH 5"' ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE. PROVIDE SECURITY SCREWS FOR USE IN CORRECTIONAL FACILITY.	ZURN MODEL Z415B-2-ZN-Y-VP	2"	-	-	-	
FS-1	FLOOR SINK	12"x12"x8" DEEP, 16-GAUGE TYPE 304 STAINLESS STEEL SANITARY FLOOR AREA AND INDIRECT WASTE DRAIN WITH GRATE. STAINLESS STEEL ANCHOR FLANGE WITH WEEPHOLES.	ZURN MODEL Z1751-4-P	4"	-	-	-	PROVIDE WITH TRAP PRIMER.
FS-2	FLOOR SINK	12"x12"x8" DEEP LESS GRATE, 16-GAUGE TYPE 304 STAINLESS STEEL SANITARY FLOOR AREA AND INDIRECT WASTE DRAIN. STAINLESS STEEL ANCHOR FLANGE WITH WEEPHOLES.	ZURN MODEL Z1751-4-Z-1	4"	-	-	-	
FWD-1	FOOD WASTE DISPOSER	STAINLESS STEEL GRINDING CHAMBER, 1/2 HP / 120V / 1PH / 5.8 AMPS.	INSINKERATOR LC50-11	1-1/2"	-	-	-	PROVIDE WITH SK-2
GI-1	GREASE INTERCEPTOR	CONSTRUCTED USING A SEAMLESS, MOLDED POLYETHYLENE WITH MINIMUM 3/4" UNIFORM THICKNESS. MATERIAL SHALL BE INERT, NON-CORROSIVE AND IMPERVIOUS TO RETAINED WASTE. SEPERATOR SHALL BE SUITABLE FOR UNDERGROUND INSTALLATION AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. WASTEWATER SHALL ENTER BELOW THE NORMAL LIQUID LEVEL AND TANGENTIAL TO SEPARATOR WALL. PROVIDE EACH SEPARATOR WITH CLEANOUT, SAMPLE, AND VENTILATION PORTS, ALONG WITH AN EXTENSION COLLAR AND FRAME AND COVER FOR REMOVAL OF OIL AND SOLIDS. 4" INLET/OUTLET, 1010 GAL LIQUID CAPACITY, 100 GPM FLOW RATES, AND 6547 LBS GREASE CAPACITY.	SCHIER MODEL GB-1000	4"	2"	-	-	SERVING C1059 KITCHEN. ■ SEE DETAIL 2/P-501
HB-1	HOSE BIBB	EXPOSED HOSE BIBB WITH WHEEL HANDLE. PROVIDE EXTERNAL VACUUM BREAKER.	ZURN MODEL 1341XL	-	-	3/4"	-	PROVIDE EXTERNAL VACUUM BREAKER. ■ PSEE DETAIL 5/P-501
HB-2	WALL HYDRANT (FREEZELESS)	CONCEALED BOX TYPE FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER WITH 3/4" MALE HOSE THREAD, LOOSE TEE KEY, CHROME PLATED EXTERIOR FINISH	WOODFORD MODEL B65; JAY R. SMITH; WADE; JOSAM; ZURN	-	-	3/4"	-	SEE DETAIL 4/P-501
HB-3	WALL HYDRANT	RECESSED BOX, WALL FLANGE AND DOOR SHALL BE FABRICATED FROM TYPE 304 STAINLESS STEEL WITH SURFACES FLUSH TO THE SUPPORTING WALL, POLISHED TO A #4 SATIN FINISH. INCLUDE 1/2"NOMINAL BRASS VALVES AND FITTINGS, SCREWDRIVER STOPS ON THE INLETS, HOSE CONNECTION, AND SECURITY FASTENERS.	WILLOUGHBY MODEL HB-8151	-	-	3/4"	-	MOUNT HYDRANT 18" ABOVE FINISHED FLOOR / GRADE
HB-4	WALL HYDRANT	CONCEALED BOX TYPE WALL HYDRANT, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER WITH 3/4" MALE HOSE THREAD, LOOSE TEE KEY, CHROME PLATED EXTERIOR FINISH. UNIT IS 2-5/8" DEEP WITH SWIVEL INLET.	WOODFORD MODEL B79; JAY R. SMITH; WADE; JOSAM; ZURN	-	-	3/4"	-	MOUNT HYDRANT 18" ABOVE FINISHED FLOOR / GRADE
HR-1	HOSE REEL	WALL MOUNTED ENCLOSED HOSE REEL WITH SPRAY VALVE. 30 FT OF 3/8" HOSE	T&S BRASS AND BRONZE MODEL B-7222-C01 WITH EB-0107 SPRAY VALVE	-	-	1/2"	1/2"	
IMB-2	ICE MACHINE BOX	1/2" INLET, 1/4" OUTLET, COMPRESSION ANGLE VALVE, HOT DIPPED GALVANIZED STEEL HOUSING.	GUY GRAY MODEL BIM875	-	-	1/2"	-	
LAV-1	LAVATORY	BOWL - WALL HUNG, THERMOSET ACRYLIC MODIFIED PLOYESTER RESIN, MOUNTING BRACKET AND INTEGRAL MOUNTING SUPPORTS. ■ FAUCET - 0.5 GPM, VANDAL RESISTANT ALL BRASS BODY WITH SINGLE INLET AND IN-LINE STRAINER. HARDWIRED 24VAC SOLENOID VALVE AND CAPACITIVE SENSORS. PROVIDE THERMOSTAT MIXING VALVE OPTION. ■ SUPPLIES AND STOPS - LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D., FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP - 1-1/4"x1-1/2" CAST BRASS: CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. ■ DRAINS - MANUFACTURER PROVIDED INDIVIDUAL P-TRAPS.	BRADLEY MODEL FL-3H-S53-315-TMA-IW-POLY-PT	1-1/2"	1-1/4"	3/4"	3/4"	ADA COMPLIANT
LAV-2	LAVATORY	BOWL - WALL HUNG, THERMOSET ACRYLIC MODIFIED PLOYESTER RESIN, MOUNTING BRACKET AND INTEGRAL MOUNTING SUPPORTS. ■ FAUCET - 0.5 GPM, VANDAL RESISTANT ALL BRASS BODY WITH SINGLE INLET AND IN-LINE STRAINER. HARDWIRED 24VAC SOLENOID VALVE AND CAPACITIVE SENSORS. PROVIDE THERMOSTAT MIXING VALVE OPTION. ■ SUPPLIES AND STOPS - LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D., FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP - 1-1/4"x1-1/2" CAST BRASS: CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. ■ DRAINS - MANUFACTURER PROVIDED INDIVIDUAL P-TRAPS.	BRADLEY MODEL FL-2H-S53-315-TMA-IW-POLY-PT	1-1/2"	1-1/4"	3/4"	3/4"	ADA COMPLIANT
LAV-3	LAVATORY	BOWL - WALL HUNG, VITREOUS CHINA, CONCEALED ARM SUPPORTS. ■ FAUCET - 0.5 GPM, VANDAL RESISTANT ALL BRASS BODY WITH SINGLE INLET AND IN-LINE STRAINER. HARDWIRED 24VAC SOLENOID VALVE AND MICROPROCESSOR CONTROLLED PROXIMITY SENSORS. PROVIDE THERMOSTAT MIXING VALVE OPTION. ■ SUPPLIES AND STOPS - LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D., FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP - 1-1/4"x1-1/2" CAST BRASS: CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. ■ DRAINS - LAVATORY DRAIN OUTLET FITTING WITH PERFORATED GRID, CHROME PLATED FINISH AND CAST BRASS BODY.	BOWL - SLOAN MODEL SS-3003 ■ FAUCET - SLOAN MODEL ETF-600 ■ THERMOSTATIC MIXING VALVE - BRADLEY MODEL S59-4000A ■ SUPPLIES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE; T&S BRASS ■ TRAP -WOLVERINE BRASS INC.; T&S BRASS ■ DRAINS - WOLVERINE BRASS INC. CATALOG NO. 56096; T&S BRASS	1-1/4"	1-1/4"	3/4"	3/4"	ADA COMPLIANT
LAV-4	LAVATORY	BOWL - WALL HUNG, VITREOUS CHINA, CONCEALED ARM SUPPORTS. ■ FAUCET - 0.5 GPM, METAL BODY WITH INDEXED METAL LEVER HANDLE, WASHERLESS CERAMIC DISC VALVE CARTRIDGE WITH INTEGRAL HOT LIMIT SAFETY STOP, DURABLE CAST BRASS FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION CONNECTIONS. AERATOR SUPPLIES AND STOPS - LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D., FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP - 1-1/4"x1-1/2" CAST BRASS: CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. ■ DRAINS - LAVATORY DRAIN OUTLET FITTING WITH PERFORATED GRID, CHROME PLATED FINISH AND CAST BRASS BODY SUPPLIES AND STOPS - LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D., FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP - 1-1/4"x1-1/2" CAST BRASS: CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. ■ DRAINS - LAVATORY DRAIN OUTLET FITTING WITH PERFORATED GRID, CHROME PLATED FINISH AND CAST BRASS BODY.	BOWL - SLOAN MODEL SS-3003 ■ FAUCET - AMERICAN STANDARD MODEL 7385.053 ■ THERMOSTATIC MIXING VALVE - BRADLEY MODEL S59-4000A ■ SUPPLIES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE: T&S BRASS ■ TRAP - WOLVERINE BRASS INC. ; T&S BRASS ■ DRAINS - WOLVERINE BRASS INC. CATALOG NO. 56096; T&S BRASS	1-1/4"	1-1/4"	3/4"	3/4"	ADA COMPLIANT

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	ACCEPTABLE MANUFACTURER	SAN/ WASTE	VENT	COLD WATER	HOT WATER	REMARKS
LAV-5	LAVATORY (SECURITY)	20" WIDE, REAR MOUNTED, HANDICAP-ADA COMPLIANT LIGATURE RESISTANT LAVATORY. 0.5 GPM FAUCET WITH DEFAULT OPERATION DURATION SET TO 12 SECONDS. FIXTURE SHALL BE FABRICATED FROM 14-GAUGE TYPE 304 STAINLESS STEEL, ALL-WELDED WITH EXPOSED STAINLESS SURFACES POLISHED TO A #3 SATIN FINISH. MULTI-SIDED BOWL, 12-3/4"x8-1/4"x5" DEEP. STAINLESS STEEL LIGATURE-RESISTANT BUBBLER/FILLER, SLOW DRAIN WITH AIR VENT, 1-1/2" ELBOW WASTE, SLOPED BACKSPLASH, SELF-DRAINING SOAP DISH.	WILLOUGHBY MODEL WBLS-2018-HC-E1L2-PZPB-WMSII-EB-LW1-TF24H-TH1-WS	1-1/4"	1-1/4"	3/4"	3/4"	ADA COMPLIANT ■ TEMPERED WATER @ 105°F
LI-1	LINT INTERCEPTOR	TANK – POLYETHYLENE. INCLUDE REMOVABLE, CORROSIONRESISTANT FILTER BASKET. HIGH AND LOW OUTLET OPTIONS WITH MOVABLE SEWER GAS TRAP. FURNISHED FOR ABOVE- OR BELOW-GRADE BURIAL. COVER SHALL BE WATER AND GAS TIGHT WITH MINIMUM 2,000 LBS. LOAD CAPACITY.	STRIEM MODEL AA-L	3"	-	-	-	PROVIDE WITH BOLT DOWN COVER WITH TAMPER PROOF SCREWS.
MB-1	MOP BASIN	BASIN - ONE PIECE MOLDED STONE 24"x24"x10" WITH INTEGRAL STAINLESS STEEL BODY DRAIN, STAINLESS STEEL CAPS ON ALL CURBS, AND WALL GUARDS. ■ FAUCET - CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. BODY INLETS 8" CENTER TO CENTER, FOUR ARM HANDLES. ■ HOSE AND HOSE BRACKET - 30" LONG FLEXIBLE, HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED WITH 3/4" BRASS COUPLING AT ONE END, 5" LONG BY 3" WIDE BRACKET. 18 GAUGE #302 STAINLESS STEEL WITH RUBBER GRIP. ■ MOP HANGER - 24" LONG BY 3" WIDE STAINLESS STEEL WITH (3) RUBBER TOOL GRIPS.	BASIN - FIAT MODEL MSB-2424. ■ FAUCET - FIAT MODEL 830-AA. ■ HOSE AND HOSE BRACKET - FIAT MODEL 832-AA. ■ MOP HANGER - FIAT MODEL 889-CC.	3"	1-1/2"	3/4"	3/4"	
MB-2	MOP BASIN (SECURITY)	BASIN - 24"x24"x15" WITH INTEGRAL STAINLESS STEEL BODY DRAIN AND TRAP. ■ FAUCET - CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. BODY INLETS 8" CENTER TO CENTER, FOUR ARM HANDLES. ■ HOSE AND HOSE BRACKET - 30" LONG FLEXIBLE, HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED WITH 3/4" BRASS COUPLING AT ONE END, 5" LONG BY 3" WIDE BRACKET. 18 GAUGE #302 STAINLESS STEEL WITH RUBBER GRIP. ■ MOP HANGER - 24" LONG BY 3" WIDE STAINLESS STEEL WITH (3) RUBBER TOOL GRIPS. PROVIDE VANDAL RESISTANT SCREWS.	BASIN - WILLOUGHBY WMS-242415-PT-RH. ■ FAUCET - FIAT MODEL 830-AA HOSE AND HOSE BRACKET - FIAT MODEL 832-AA. ■ MOP HANGER - FIAT MODEL 889-CC	3"	1-1/2"	3/4"	3/4"	
OI-1	OIL INTERCEPTOR	HIGH DENSITY POLYETHELENE FOR BELOW GRADE INSTALLATION. INTERCEPTOR TO BE FURNISHED WITH FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL, VENT CONNECTIONS. LIQUID CAPACITY OF 750 (GALLONS). COVER SHALL PROVIDE WATER / GAS TIGHT SEAL WITH MINIMUM 16,000 (LBS.) LOAD CAPACITY.	STRIEM MODEL OS-750	4"	4"	-	-	SERVING A1000 VEHICLE SALLYPORT & A1003 VEHICLE EVIDENCE STORAGE. ■ SEE DETAIL 2/P-501
ORD-1	SECONDARY ROOF DRAIN	15" DIAMETER MAIN OVERFLOW ROOF DRAIN WITH 2" INTERNAL WATER DAM AND LOW SILHOUETTE DOME. DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH POLYETHYLENE DOME, SUMP RECEIVER, UNDER DECK CLAMP, NO-HUB BOTTOM OUTLET.	ZURN MODEL Z100-Z-W2	VARY	-	-	-	OVERFLOW DRAIN ■ SEE DRAWINGS FOR PIPE SIZES
RD-1	ROOF DRAIN	15" DIAMETER MAIN ROOF DRAIN WITH LOW SILHOUETTE DOME. DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH POLYETHYLENE DOME, SUMP RECEIVER, UNDER DECK CLAMP, NO-HUB BOTTOM OUTLET	ZURN MODEL Z100-Z	VARY	-	-	-	SEE DRAWINGS FOR PIPE SIZES
RD-2	ROOF DRAIN (SCUPPER)	5 x 6 x 11 SCUPPER DRAIN, DURA-COATED CAST IRON BODY WITH 90° OUTLET AND FLUSH TYPE ALUMINUM STRAINER WITH COMBINATION ALUMINUM FRAME AND MEMBERANE FLASHING CLAMP.	ZURN MODEL Z189-3-Z-90	3"	-	-	-	
RH-1	ROOF HYDRANT	FREEZELESS HYDRANT INTENDED FOR INSTALLATION ON ROOF. BACKFLOW PROTECTED WITH AN ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER THAT IS FIELD TESTABLE AND DOES NOT REQUIRE REMOVAL FOR DRAIN DOWN. BUILT IN VENT.	WOODFORD MODEL RHY2-MS	-	-	3/4"	-	ROUTE 1/8" DRAIN PIPE TO NEARBY MOP SINK
SH-1	SECURITY SHOWER (PREFABRICATED CELL)	36"x36" SECURITY SHOWER PROVIDED AS PART OF PREMANUFACTURED STEEL CELL. P-TRAP INTEGRAL TO SHOWER BASIN. 2.0 GPM SHOWER HEAD. NON-ADJUSTABLE SHOWER HEAD TO BE LOCATED ON CEILING OF SHOWER.	SHOWER HEAD - WILLOUGHBY MODEL CMSH ■ SHOWER CONTROLS - WILLOUGHBY E1L1-PZPB-2.0-WMSII-TF24H	2"	1-1/2"	-	3/4"	TEMPERED WATER @ 105°F ■ PROVIDED BY PREFABRICATED CELL MFGR. TEMPERED WATER CONNECTION.
SH-2	SECURITY SHOWER (PREFABRICATED CELL)	36"x36" SECURITY SHOWER PROVIDED AS PART OF PREMANUFACTURED STEEL CELL. PROVIDE FD-4 AT SHOWER FLOOR. 2.0 GPM SHOWER HEAD. NON-ADJUSTABLE SHOWER HEAD TO BE LOCATED ON CEILING OF SHOWER.	SHOWER HEAD - WILLOUGHBY MODEL CMSH ■ SHOWER CONTROLS - WILLOUGHBY E1L1-PZPB-2.0-WMSII-TF24H	2"	1-1/2"	-	3/4"	TEMPERED WATER @ 105°F ■ PROVIDED BY PREFABRICATED CELL MFGR. TEMPERED WATER CONNECTION.
SH-3	SECURITY SHOWER (PREFABRICATED CELL)	36"x36" SECURITY ADA SHOWER PROVIDED AS PART OF PREMANUFACTURED STEEL CELL. 2.0 GPM SHOWER HEAD. NON-ADJUSTABLE SHOWER HEAD (2.0 GPM) TO BE LOCATED ON CEILING OF SHOWER. PROVIDE ADDITIONAL FIXED, ANTI-LIGATURE SHOWER HEAD (2.0 GPM) ON WALL AT 48" A.F.F. EACH SHOWER HEAD WILL HAVE OWN ELECTRONIC PUSHBUTTON. SECURITY ADA SHOWER PROVIDED AS PART OF PREMANUFACTURED STEEL CELL. ■ DRAIN - LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5" ROUND DUCTILE IRON, ADJUSTABLE STRAINER AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE SECURITY SCREWS FOR USE IN CORRECTIONAL FACILITY.	SHOWER HEAD - WILLOUGHBY MODEL CMSH (CEILING) & CSH (WALL MOUNTED) ■ SHOWER CONTROLS - WILLOUGHBY E1L1-PZPB-2.0-WMSII-TF24H ■ DRAIN - MIFAB MODEL F100-5-1-5-7, SMITH, JOSAM, OR ZURN	2"	1-1/2"	-	3/4"	ADA COMPLIANT ■ TEMPERED WATER @ 105°F ■ PROVIDED BY PREFABRICATED CELL MFGR. TEMPERED WATER CONNECTION.
SH-4	SECURITY SHOWER	FRONT MOUNTED, RECESSED HANDICAP SHOWER PANEL WITH CONNECTION FOR TWO (2) SHOWER HEADS. ONE HEAD SHALL BE SIDEWALL MOUNTED ON PANEL AT 48" A.F.F. THE SECOND HEAD SHALL BE SIDEWALL MOUNTED ON PANEL AT 72" A.F.F. SHOWER PANEL SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL WITH EXPOSED STAINLESS SURFACES POLISHED TO A #4 SATIN FINISH. MOUNTING FRAME SHALL BE FABRICATED FROM 18 GAUGE STEEL AND COMPATIBLE WITH HOLLOW METAL SECURITY WALL PANEL. SECURITY SCREWS TO BE PROVIDED FOR THE SHOWER PANEL. SEE ARCHITECTURAL DRAWINGS FOR SHOWER ENCLOSURE. 10"X10"X5" SOAP DISH IS SEPARATE FROM SHOWER PANEL. ■ DRAIN - LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5" ROUND DUCTILE IRON, ADJUSTABLE STRAINER AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE SECURITY SCREWS FOR USE IN CORRECTIONAL FACILITY.	SHOWER PANEL - WILLOUGHBY MODEL ASWRS-FA-2HD-E1L1-PZPB-2.0-WMSII-CSH-TF24H ■ SOAP DISH - RD10105 ■ DRAIN - MIFAB MODEL F100-5-1-5-7, SMITH, JOSAM, OR ZURN	2"	1-1/2"	-	3/4"	ADA COMPLIANT ■ TEMPERED WATER @ 105°F
SH-5	SHOWER	POLISHED CHROME SHOWER HEAD AND METAL LEVER HANDLE. PROVIDE DIRECT SWEAT VALVE BODY. 2.0 GPM SHOWER HEAD. ■ DRAIN - LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5" ROUND DUCTILE IRON, ADJUSTABLE STRAINER AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET.	AMERICAN STANDARD VALVE BODY R120, SHOWER HEAD/HANDLE MODEL T675.507 SHOWER ONLY TRIM KIT. ■ DRAIN - MIFAB MODEL F100-5-1-5-7, SMITH OR ZURN	2"	1-1/2"	-	3/4"	TEMPERED WATER @ 105°F
SH-6	SHOWER	POLISHED CHROME "FIXED" HAND SHOWER WITH 36" SLIDE RAIL AND METAL LEVER HANDLE. PROVIDE DIRECT SWEAT VALVE BODY. 2.0 GPM SHOWER HEAD. ■ DRAIN - LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5" ROUND DUCTILE IRON, ADJUSTABLE STRAINER AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET.	AMERICAN STANDARD VALVE BODY R120, SHOWER HEAD/HANDLE MODEL 1660.505.002. ■ DRAIN - MIFAB MODEL F100-5-1-5-7, SMITH OR ZURN	2"	1-1/2"	-	3/4"	ADA COMPLIANT ■ TEMPERED WATER @ 105°F
SH-7	SECURITY SHOWER	FRONT MOUNTED, RECESSED HANDICAP SHOWER PANEL WITH CONNECTION FOR TWO (2) SHOWER HEADS. ONE HEAD SHALL BE SIDEWALL MOUNTED ON PANEL AT 48" A.F.F. THE SECOND HEAD SHALL BE SIDEWALL MOUNTED ON PANEL AT 72" A.F.F. SHOWER PANEL SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL WITH EXPOSED STAINLESS SURFACES POLISHED TO A #4 SATIN FINISH. MOUNTING FRAME SHALL BE FABRICATED FROM 18 GAUGE STEEL AND COMPATIBLE WITH HOLLOW METAL SECURITY WALL PANEL. SECURITY SCREWS TO BE PROVIDED FOR THE SHOWER PANEL. SEE ARCHITECTURAL DRAWINGS FOR SHOWER ENCLOSURE. 10"X10"X5" SOAP DISH IS SEPARATE FROM SHOWER PANEL	SHOWER PANEL - WILLOUGHBY MODEL ASWRS-FA-2HD-E1L1-PZPB-2.0-WMSII-CSH-TF24H ■ SOAP DISH - RD10105	2"	1-1/2"	-	3/4"	ADA COMPLIANT ■ TEMPERED WATER @ 105°F
SK-1	SINK	BOWL - 22" LONG x 21" WIDE OVERALL SINK DIMENSIONS WITH ONE (1) 19"x16"x6.5" DEEP BOWL, COUNTERTOP, SELF RIMMING DROP-IN SINK. TYPE 304 STAINLESS STEEL, DEEP-DRAWN, FAUCET HOLES 4" ON CENTER. ■ FAUCET - 5" RIGID GOOSENECK SPOUT WITH 1.5 GPM AERATOR. CAST BRASS CONSTRUCTION, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, 1/2" MALE THREADED INLET SHANKS WITH SHANK NUTS AND BRASS COUPLING NUTS, VANDAL-RESISTANT WRIST BLADE HANDLES. ■ SUPPLIES AND STOPS - LOOSE KEY ANGLE STOP, 3/8" IPS, CHROME PLATED INLET, 3/8" O.D. FLEXIBLE\RISER, WALL ESCUTCHEON. ■ TRAP - 1-1/2" CAST BRASS, CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG, TUBING TO WALL AND ESCUTCHEON.	BOWL - JUST MANUFACTURING MODEL SL-ADA-2122-A-GR ■ FAUCET - AMERICAN STANDARD MODEL 6405.170 ■ SUPPLIES AND STOPS - WOLVERINE BRASS INC MODEL ENCORE ■ TRAP - WOLVERINE BRASS INC	1-1/2"	1-1/2"	3/4"	3/4"	COORDINATE WITH CASEWORK.
SK-2	SINK	BOWL - 37" LONG x 21" WIDE OVERALL SINK DIMENSIONS WITH TWO (2) 16"x16"x6.5" DEEP BOWL, COUNTERTOP, SELF RIMMING, DROP-IN SINK. TYPE 304 STAINLESS STEEL, DEEP DRAWN, FAUCET HOLES 4" CENTERS ■ FAUCET - TWO HANDLE TOP-MOUNTED KITCHEN FAUCET SHALL FEATURE CAST BRASS CONSTRUCTION WITH ALL BRASS COUPLING NUTS, BRASS FIELD CONVERTIBLE RIGID/SWIVEL SPOUT WITH 5" REACH, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES. ■ SUPPLIES AND STOPS-LOOSE KEY ANGLE STOP, 3/8"IPS, CHROME PLATED INLET, 3/8" O.D. FLEXIBLE RISER, WALL ESCUTCHEON.	BOWL - JUST MANUFACTURING MODEL DLF-ADA-2137-A-GR ■ FAUCET - AMERICAN STANDARD MODEL 6405.171. ■ SUPPLES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE	1-1/2"	1-1/2"	3/4"	3/4"	COORDINATE WITH CASEWORK. ■ PROVIDE WITH FWD-1
SK-3	SINK	BOWL - 37" LONG x 21" WIDE OVERALL SINK DIMENSIONS WITH TWO (2) 16"x16"x6.5" DEEP BOWL, COUNTERTOP, SELF RIMMING, DROP-IN SINK. TYPE 304 STAINLESS STEEL, DEEP DRAWN, FAUCET HOLES 4" CENTERS. ■ FAUCET - TWO HANDLE TOP-MOUNTED KITCHEN FAUCET SHALL FEATURE CAST BRASS CONSTRUCTION WITH ALL BRASS COUPLING NUTS, BRASS FIELD CONVERTIBLE RIGID/SWIVEL SPOUT WITH 5" REACH, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES. ■ SUPPLIES AND STOPS-LOOSE KEY ANGLE STOP, 3/8"IPS, CHROME PLATED INLET, 3/8" O.D. FLEXIBLE RISER, WALL ESCUTCHEON.	BOWL - JUST MANUFACTURING MODEL DLF-ADA-2137-A-GR ■ FAUCET - AMERICAN STANDARD MODEL 6405.171. ■ SUPPLES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE	1-1/2"	1-1/2"	3/4"	3/4"	COORDINATE WITH CASEWORK.
SK-4	SINK	BOWL - 37" LONG x 21" WIDE OVERALL SINK DIMENSIONS WITH TWO (2) 16"x16"x6.5" DEEP BOWL, COUNTERTOP, SELF RIMMING, DROP-IN SINK. TYPE 304 STAINLESS STEEL, DEEP DRAWN, FAUCET HOLES 4" CENTERS, INCLUDE DRAIN AND OPENING FOR INSTANTANEOUS WATER HEATER (IWH-1) SPOUT. ■ FAUCET - TWO HANDLE TOP-MOUNTED KITCHEN FAUCET SHALL FEATURE CAST BRASS CONSTRUCTION WITH ALL BRASS COUPLING NUTS, BRASS FIELD CONVERTIBLE RIGID/SWIVEL SPOUT WITH 5" REACH, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES. ■ SUPPLIES AND STOPS-LOOSE KEY ANGLE STOP, 3/8"IPS, CHROME PLATED INLET, 3/8" O.D. FLEXIBLE RISER, WALL ESCUTCHEON.	BOWL - JUST MANUFACTURING MODEL DLF-ADA-2137-A-GR ■ FAUCET - AMERICAN STANDARD MODEL 6405.171. ■ SUPPLES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE	1-1/2"	1-1/2"	3/4"	3/4"	COORDINATE WITH CASEWORK. ■ PROVIDE WITH IWH-1.
SK-5	SINK (UTILITY)	FLOOR MOUNTED, ONE PIECE 20"x24"x34" WITH 14" DEEP BOWL, MOLDED CONSTRUCTION USING STRUCTURAL THERMOPLASTICS WITH MATCHED METAL MOLDS. TUB TO INCLUDE INTEGRALLY MOLDED DRAIN, 1-1/2" P-TRAP WITH 12" TAILPIECE, 6"SWING SPOUT FAUCET WITH AERATOR AND HOSE END.	MUSTEE MODEL 19CFT	1-1/2"	1-1/2"	3/4"	3/4"	
TD-1	TRENCH DRAIN	6" WIDE TRENCH DRAIN SYSTEM, 6'-8" LONG CHANNEL SECTIONS MADE OF HDPE, INTERLOCKING ENDS, RADIUSED BOTTOM, PRESLOPED WITH A MINIMUM OF.75%, HEAVY DUTY DUCTILE IRON GRATE-CLASS C, CLOSED END CAP. 26'-8" TOTAL LENGTH FOR FOUR TRENCHES.	ZURN MODEL Z886-HD-Z-DGC USING TRENCH NUMBERS 8601, 8602, 8603, 8604	-	-	-	-	LOCATED IN A1000 VEHICLE SALLYPORT ■ COMPATIBLE WITH SPECIFIED CB-1
TD-2	TRENCH DRAIN	6" WIDE TRENCH DRAIN SYSTEM, 6'-8" LONG CHANNEL SECTIONS MADE OF HDPE, INTERLOCKING ENDS, RADIUSED BOTTOM, PRESLOPED WITH A MINIMUM OF.75%, HEAVY DUTY DUCTILE IRON GRATE-CLASS C, CLOSED END CAP. 6'-8" TOTAL LENGTH FOR A SINGLE TRENCH.	ZURN MODEL Z886-HD-Z-DGC USING TRENCH NUMBER 8601	-	-	-	-	LOCATED IN A1003 VEHICLE EVIDENCE STORAGE ■ COMPATIBLE WITH SPECIFIED CB-2
TD-3	TRENCH DRAIN	6" WIDE TRENCH DRAIN SYSTEM, 6'-8" LONG CHANNEL SECTIONS MADE OF HDPE, INTERLOCKING ENDS, RADIUSED BOTTOM, PRESLOPED WITH A MINIMUM OF.75%, HEAVY DUTY DUCTILE IRON GRATE-CLASS C, CLOSED END CAP. 6'-8" TOTAL LENGTH FOR A SINGLE TRENCH.	ZURN MODEL Z886-HD-Z-E1-U4-DGC USING TRENCH NUMBER 8601	-	-	-	-	LOCATED IN C1066 TRASH
TD-4	TRENCH DRAIN	6" WIDE TRENCH DRAIN SYSTEM, 6'-8" LONG CHANNEL SECTIONS MADE OF HDPE, INTERLOCKING ENDS, RADIUSED BOTTOM, PRESLOPED WITH A MINIMUM OF.75%, HEAVY DUTY DUCTILE IRON GRATE-CLASS C, CLOSED END CAP. 6'-8" TOTAL LENGTH FOR A SINGLE TRENCH.	ZURN MODEL Z886-HD-Z-E1-U4-DGC USING TRENCH NUMBER 8615	-	-	-	-	LOCATED IN C1065 LAUNDRY
TP-1	TRAP PRIMER MANIFOLD	12"x12"x4" RECESSED ENCLOSURE, NEMA-1 WITH COVER PLATE, 3/4" INLET, EIGHT (8) 1/2" OUTLETS, CIRCUIT BREAKER, MANUAL OVERRIDE SWITCH/TEST BUTTON, TIMER, UL-LISTED SOLENOID VALVE, ANTI-SIPHONIC ATMOSPHERIC VACUUM BREAKER. 115V FLUSH MOUNT AND 2 A FUSE.	PPP MODEL PT-10	-	-	3/4"	-	PROVIDE INDIVIDUAL 1/2" TP PIPE BELOW FLOOR TO DRAINS INDICATED.
TP-2	TRAP PRIMER MANIFOLD	12"x12"x4" RECESSED ENCLOSURE, NEMA-1 WITH COVER PLATE, 3/4" INLET, SIX (6) 1/2" OUTLETS, CIRCUIT BREAKER, MANUAL OVERRIDE SWITCH/TEST BUTTON, TIMER, UL-LISTED SOLENOID VALVE, ANTI-SIPHONIC ATMOSPHERIC VACUUM BREAKER. 115V FLUSH MOUNT AND 2 A FUSE.	PPP MODEL PT-06	-	-	3/4"	-	PROVIDE INDIVIDUAL 1/2" TP PIPE BELOW FLOOR TO DRAINS INDICATED.
TP-3	TRAP PRIMER MANIFOLD	12"x12"x4" RECESSED ENCLOSURE, NEMA-1 WITH COVER PLATE, 3/4" INLET, FOUR (4) 1/2" OUTLETS, CIRCUIT BREAKER, MANUAL OVERRIDE SWITCH/TEST BUTTON, TIMER, UL-LISTED SOLENOID VALVE, ANTI-SIPHONIC ATMOSPHERIC VACUUM BREAKER. 115V FLUSH MOUNT AND 2 A FUSE.	PPP MODEL PT-04	-	-	3/4"	-	PROVIDE INDIVIDUAL 1/2" TP PIPE BELOW FLOOR TO DRAINS INDICATED.
TP-4	TRAP PRIMER	(2) 1/2"CW CONNECTION, AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE. SYSTEM OPERATING RANGE IS 20 PSI TO 80 PSI MAXIMUM. 10 PSI PRESSURE DROP REQUIRED TO ACTIVATE. CONSTRUCTED OF 360 BRASS, EPDM E70 O-RINGS, DOW #7 SILICONE, #60 STAINLESS STEEL MESH SCREEN.	PPP MODEL PR-500	-	-	1/2"	-	PROVIDE 1/2" TP PIPE TO NEARBY FLOOR DRAINS. SEE DETAIL 1/P-502.
TP-5	TRAP PRIMER	(2) 1/2"CW CONNECTION, AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE. SYSTEM OPERATING RANGE IS 20 PSI TO 80 PSI MAXIMUM. 10 PSI PRESSURE DROP REQUIRED TO ACTIVATE. CONSTRUCTED OF 360 BRASS, EPDM E70 O-RINGS, DOW #7 SILICONE, #60 STAINLESS STEEL MESH SCREEN.	PPP MODEL PR-500 WITH DU-4	-	-	1/2"	-	PROVIDE WITH DU-4. PROVIDE INDIVIDUAL 1/2" TP PIPE TO NEARBY FLOOR DRAINS. SEE DETAIL 1/P-502.
UR-1	URINAL	BOWL - VITREOUS CHINA, WHITE, WASHOUT FLUSH ACTION, ELONGATED, WALL HUNG, 2 WALL HANGER, EXTENDED SIDE, LOW WATER CONSUMPTION (0.25 GPF). MEETS ANSI FLUSH REQUIREMENTS, 3/4" INLET, TOP SPUD. ■ FLUSH VALVE - EXPOSED, HARDWIRED (INCLUDE TRANSFORMER), SENSOR OPERATED FLUSH VALVE WITH MANUAL OVERRIDE. CAST BRASS VALVE BODY AND METAL COVER WITH CHROME FINISH, VANDAL RESISTANT STOP CAP, ANGLE STOP WITH BACK-FLOW PROTECTION AND VACUUM BREAKER. LOWER WATER CONSUMPTION (0.25 GPF). ■ CARRIER - BOLTED TYPE URINAL FITTING, ADJUSTABLE SHORT FOOT WITH BEARING PLATE.	URINAL SYSTEM - SLOAN MODEL WEUS-1002.1303, INCLUDE TRANSFORMER FOR HARDWIRE. ■ CARRIER - MIFAB, SMITH, OR ZURN.	2"	1-1/4"	3/4"	-	ADA COMPLIANT HEIGHT WHERE REQ'D ■ TRANSFORMER TO PROVIDE MULTIPLE FIXTURES WHERE MFGR ALLOWS
WC-1	WATER CLOSET	BOWL - WHITE VITREOUS CHINA, ELONGATED, SIPHON JET, FLOOR MOUNTED, 1-1/2" TOP SPUD, LOW WATER CONSUMPTION (1.6 GPF/4.8 LPF). ■ FLUSH VALVE - EXPOSED, HARDWIRED (INCLUDE TRANSFORMER), SENSOR OPERATED FLUSH VALVE. SELF-CLEANING PISTON VALVE WITH MANUAL OVERRIDE. CAST BRASS VALVE BODY AND METAL COVER WITH CHROME FINISH, VANDAL RESISTANT STOP CAP, ANGLE STOP WITH BACK-FLOW PROTECTION AND VACUUM BREAKER. LOWER WATER CONSUMPTION (1.6 GPM). ■ SEAT - WHITE HIGH IMPACT, EXTRA HEAVY SOLID PLASTIC, ELONGATED, CHEMICAL RESISTANT, OPEN FRONT. (LESS COVER), MODEL-IN SURFACE CHECK AND STAINLESS STEEL HINGE POSTS. ■ CARRIER - BOLTED TYPE CLOSET FITTING, ADJUSTABLE SHORT FOOT WITH BEARING PLATE, SIZE AND TYPE AS REQUIRED.	TOILET SYSTEM - SLOAN MODEL WETS-2023.1301, INCLUDE TRANSFORMER FOR HARDWIRE. ■ SEAT - BEMIS MODEL 1955CT OR EQUIVALENT	4"	2"	1"	-	ADA COMPLIANT
WC-2	WATER CLOSET	BOWL - WHITE VITREOUS CHINA, ELONGATED, SIPHON JET, FLOOR MOUNTED, 1-1/2" TOP SPUD, LOW WATER CONSUMPTION (1.6 GPF/4.8 LPF). ■ FLUSH VALVE - EXPOSED, HARDWIRED (INCLUDE TRANSFORMER), SENSOR OPERATED FLUSH VALVE. SELF-CLEANING PISTON VALVE WITH MANUAL OVERRIDE. CAST BRASS VALVE BODY AND METAL COVER WITH CHROME FINISH, VANDAL RESISTANT STOP CAP, ANGLE STOP WITH BACK-FLOW PROTECTION AND VACUUM BREAKER. LOWER WATER CONSUMPTION (1.6 GPM). ■ SEAT - WHITE HIGH IMPACT, EXTRA HEAVY SOLID PLASTIC, ELONGATED, CHEMICAL RESISTANT, OPEN FRONT. (LESS COVER), MODEL-IN SURFACE CHECK AND STAINLESS STEEL HINGE POSTS. ■ CARRIER - BOLTED TYPE CLOSET FITTING, ADJUSTABLE SHORT FOOT WITH BEARING PLATE, SIZE AND TYPE AS REQUIRED.	TOILET SYSTEM - SLOAN MODEL WETS-2009. ■ FLUSH VALVE - SLOAN MODEL WES-111. INCLUDE TRANSFORMER FOR HARDWIRE. ■ SEAT - BEMIS MODEL 1955CT OR EQUIVALENT	4"	2"	1"	-	
WC-3	WATER CLOSET (SECURITY)	FLOOR MOUNTED, ADA-COMPLIANT, WALL OUTLET, LIGATURE RESISTANT BLOWOUT SERIES TOILET. FIXTURE SHALL BE FABRICATED FROM 14 GAUGE, TYPE 304 STAINLESS STEEL. CONSTRUCTION SHALL BE ALL WELDED, WITH EXPOSED STAINLESS STEEL SURFACES POLISHED TO A #4 SATIN FINISH. ELONGATED TOILET BOWL WITH CONTOURED SEAT, INTEGRAL CREVICE-FREE SELF DRAINING FLUSHING RIM WITH POSITIVE AFTERFILL, FULLY ENCLOSED 2-1/2" O.D. TRAP WHICH SHALL MAINTAIN A MINIMUM 2" SEAL AND PASS A 2" BALL. BEAD BLAST FINISH BOWL INTERIOR. TOILET SHALL BE BLOWOUT TYPE REQUIRING 35 PSI MINIMUM FLUSHING PRESSURE. STANDARD LIGATURE-RESISTANT TOILET SKIRT SHALL EXTEND TO FLOOR AS CLOSE TO FRONT OF TOILET BOWL AS POSSIBLE, ELIMINATING OPEN SPACE UNDER FIXTURE. 1.6 GPF.	WILLOUGHBY MODEL ASETWS-1490-FM-BS-HC-1.6-TWE-PCB4-TWC4C-ET4-EFVP-FVT-TF24H-WS-WMSII	4"	2"	1"	-	ADA COMPLIANT ■ LOCATE PUSH BUTTON TO OPEN SIDE OF FIXTURE.
WCO-1	WALL CLEANOUT	DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW. PROVIDE VANDAL-PROOF SECURED TOP.	ZURN MODEL Z1441-Z-VP	VARY	-	-	-	MATCH PIPE SIZE
WMB-1	OUTLET BOX (WASHING MACHINE SUPPLY/DRAIN)	16-GAUGE STEEL WITH EPOXY FINISH, VANDAL PROOF SCREWS, MIP OR SWEAT CONNECTIONS AND DRAIN FITTINGS RECESSED.	GUY GREY MODEL NO. BB 200TS; OATEY	2"	1-1/2"	1/2"	1/2"	LOCATED IN B1041 INMATE CLOTHING

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DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: KB CHK'D: JRA
DESIGNED: KB
APPR'D: JRA
DATE: September 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PLUMBING FIXTURE SCHEDULE

DRAWING NUMBER
P-601
PLUMBING

WATER HAMMER ARRESTOR SCHEDULE			
TYPE	FIXTURE UNIT RATING	I.P.S.	MODEL (J.R. SMITH)
WHA-A	1-11	3/4"	5005
WHA-B	12-32	1"	5010
WHA-C	33-60	1"	5020

NATURAL GAS PRESSURE REDUCING VALVE SCHEDULE (ALTERNATE BID)

TYPE	MARK	CFH	INLET PRESSURE (PSI)	OUTLET PRESSURE (IN WC)	MANUFACTURER/MODEL	NOTES
PRV	1	5,400	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	2	7,500	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	3	330	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	4	3,050	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	5	1,260	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	6	50	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	7	330	2	13	SENSUS / MODEL 243-8-2	REFER TO DETAIL 6/P-501.

NATURAL GAS PRESSURE REDUCING VALVE SCHEDULE (BASE BID)

TYPE	MARK	CFH	INLET PRESSURE (PSI)	OUTLET PRESSURE (IN WC)	MANUFACTURER/MODEL	NOTES
PRV	1	5,400	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	2	7,500	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-2-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	3	330	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	4	3,050	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	5	1,260	2	13	PIETRO FIORENTINI / F31155OPD-7-BY-1.25-VL-CAP	REFER TO DETAIL 6/P-501.
PRV	6	50	2	13	SENSUS / MODEL 496-3/4"	REFER TO DETAIL 6/P-501.
PRV	7	600	2	13	SENSUS / MODEL 243-8-2	REFER TO DETAIL 6/P-501.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	FIXTURE	DESCRIPTION	ACCEPTABLE MANUFACTURER	FLOW RATE	PRESSURE DROP	ELECTRICAL REQ	REMARKS
TMV-1	DIGITAL THERMOSTATIC MIXING VALVE MANIFOLD	ASSE 1017 MASTER DIGITAL MIXING VALVE MANIFOLD FOR POTABLE WATER. ONE (1) MIXING VALVE. MIXING VALVE HAVE INTEGRAL RTD SENSOR PER VALVE AND ADDITIONAL SENSORS FOR INLET HOT WATER, INLET COLD WATER, AND RETURN WATER TEMPERATURE PER VALVE. INTEGRAL PRESSURE SENSORS FOR INLET HOT WATER AND INLET COLD WATER PER VALVE. MANIFOLD ASSEMBLY WITH 3" INLETS, 3" OUTLET, AND 3" RETURN PIPING INLET AND OUTLETS. 0.25 GPM MINIMUM FLOW CAPACITY. AUTOMATIC HOT/COLD SHUTOFF UPON HOT/COLD WATER INLET SUPPLY FAILURE. USER PROGRAMMABLE FOR ON-SITE CONFIGURATION, HIGH-TEMP SANITIZATION MODE, AND HIGH/LOW TEMPERATURE ALARM. PROVIDE INTERFACE WITH BUILDING MANAGEMENT SYSTEM. DISPLAY OUTLET TEMPERATURE WITH OPTIONS TO DISPLAY 4 ADDITIONAL TEMPERATURE INPUTS, 1 FLOW CHANNEL INPUT, AND 1 CONFIGURABLE FLOW OR PRESSURE. UL LISTED 120V PLUG IN POWER SUPPLY WITH 6' CORD (1 PER VALVE). FACTORY ASSEMBLED AND TESTED.	LEONARD MODEL NV-300-LF	180	10 PSI	120 V	SET TO 115°F
TMV-2	THERMOSTATIC MIXING VALVE	ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE. DIAL THERMOMETER ON OUTLET, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS AND WALL SUPPORT, TEMPERATURE CONTROL DOWN TO 0.5 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE.	LEONARD MODEL XL-690-LF-DT	30	20 PSI	-	SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMP SENSOR
TMV-3	THERMOSTATIC MIXING VALVE	ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE WITH RECESSED CABINET ASSEMBLY. DIAL THERMOMETER ON OUTLET, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS, TEMPERATURE CONTROL DOWN TO 0.5 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE.	LENOARD MODEL XL-186-690-LF	40	20 PSI	-	SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMP SENSOR ■ PROVIDE TOP INLET ■ PROVIDE WITH RECESSED CABINET.
TMV-4	THERMOSTATIC MIXING VALVE	ASSE 1069 RATED HIGH LOW THERMOSTATIC MIXING VALVE WITH RECESSED CABINET ASSEMBLY. DIAL THERMOMETER ON OUTLET, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS, TEMPERATURE CONTROL DOWN TO 0.5 GPM, COPPER ENCAPSULATED THERMOSTATIC ELEMENT ASSEMBLIES WITH TEFLON COATED SHUTTLE.	LENOARD MODEL 369-LF-STSTL	30	15 PSI	-	SET TO 105°F ■ PROVIDE TAP ON OUTLET PIPE FOR TEMP SENSOR ■ PROVIDE TOP INLET ■ PROVIDE WITH RECESSED CABINET.

PLUMBING EQUIPMENT SCHEDULE

TAG		DESCRIPTION	BASIS OF DESIGN	HP	RPM	VOLTAGE	PHASE CYCLE	SYSTEM HEAD	FLOW	REMARKS
DWBP	1	DOMESTIC WATER BOOSTER PUMP: THREE (3) NSF CERTIFIED, END SUCTION PUMPS. PUMP CONSTRUCTION IS FORMED 304 STAINLESS STEEL WITH MECHANICAL SEAL, CLOSE COUPLED TO A 3600 RPM, ODP, 3 PH, 60 CYCLE, 1.15 SERVICE FACTOR, CLASS F INSULATION, HIGH EFFICIENCY MOTOR. INCLUDE SUCTION AND DISCHARGE SIDE ISOLATING BUTTERFLY VALVES, CHECK VALVES, AND FLANGED SUCTION AND DISCHARGE HEADERS. INCLUDE CONTROL PANEL WITH NON-FUSED DISCONNECT, PLC OPERATION, SEQUENCING, DATA AND FAULT LOGS, ALARM HORN, TOUCHSCREEN, VARIABLE FREQUENCY DRIVES.	BELL & GOSSETT TECHNOFORCE E-MT MODEL 66SV10GK4F60	15	3600	460	3	-	525 GPM	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ SET TO 70 PSI.
HWRP	1	HOT WATER RECIRCULATION PUMP: HIGH EFFICIENCY ELECTRONICALLY COMMUTATED PERMANENT MAGNET MOTOR (ECM/PM). LEAD FREE BRONZE BODY DESIGNED FOR POTABLE WATER PLUMBING SYSTEMS. STAINLESS STEEL IMPELLER AND SHAFT, PERMANENT MAGNET ROTOR, CARBON SLEEVE BEARING, EPDM GASKET/O-RING, ALL OTHER WETTED PARTS STAINLESS STEEL.	BELL & GOSSETT ECOCIRC MODEL XL 65-130	1	2800	460	3	32 FT	35 GPM	
IWH	1	ELECTRIC INSTANTANEOUS WATER HEATER: WALL MOUNTED, INSTANTANEOUS WATER HEATER. FULL MODULATING PREDICTIVE CONTROL ALGORITHM AND DIVERSE SAFETY FEATURE FOR PRECISE TEMPERATURE CONTROL. FIELD PROGRAMMABLE. UPDATABLE FIRMWARE AND ADJUSTABLE TURN-ON. HIGH VISIBLE LCD DISPLAY AND CONTROL WITH BUILT IN DIAGNOSTICS. INCLUDE ELECTRICAL DISCONNECT AND GFCI RATING. 70 DEGREE TEMPERATURE RISE AT 2.5 GPM.	EEMAX MODEL AP036480-EDS-GFCI	36 kW		480	3	-	2.5 GPM	PROVIDE WITH SK-4
RO	1	REVERSE OSMOSIS SYSTEM: PACKAGED SYSTEM SERVING KITCHEN EQUIPMENT. DELIVERS 6000 GALLONS PER DAY OF RO WATER. SYSTEM INCLUDED RO UNIT, PRE AND POST FILTERS, SYSTEM PUMP, 500 GALLON STORAGE TANK, SEDIMENT PRE-FILTER, REMINERALIZED RO WATER TANK, AND DELIVERY PUMP. PROGRAMMABLE WATER QUALITY (TDS) AND RECOVERY RATE DIGITALLY MEASURED AND ALARMED IF OUT OF SPECIFICATION. COLLECTS AND STORES DATA ON USAGE, FILTER LIFE, AND RECOVERY RATE. INCLUDE AUTOMATIC BYPASS OPTION.	EASYWATER SMARTGUARD RO MODEL SG6000	-		208	1	-	-	CARBON PRE-FILTER REQ'S 110V OUTLET. SEE DETAIL 4/P-502. PROVIDE STARTER.
SP	1	SUMP PUMP: CAST IRON SWITCH CASE, BASE, MOTOR AND PUMP HOUSING WITH POWDER COATED EPOXY FINISH. STAINLESS STEEL SCREWS, GUARD, HANDLE, ARM AND SEAL ASSEMBLY. OIL FILLED AND HERMETICALLY SEALED TO PREVENT OVERHEATING. CERAMIC SHAFT SEAL. 2" DIA. DISCHARGE AND VENT. 30" DIA x 36" DEPTH BASIN WITH 4" DIA INLET TO BE FIBERGLASS.	ZOELLER MODEL N264 DUPLEX WITH BASIN PART NUMBER 33-2276	4/10	1725	115	1	10 FT	60 GPM	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ PROVIDE WITH GALVANIZED RAILS, DISCHARGE PIPING WITH SHUTOFF AND CHECK VALVES, DUPLEX ALTERNATING CONTROL PANEL, AND THREE FLOAT SWITCHES.
SP	2	SUMP PUMP: SERVING FOUNDATION PERIMETER DRAIN. CAST IRON PUMP BODY, 60 Hz MOTOR, AUTOMATIC FLOAT OPERATED MECHANICAL SWITCH. 36" DIA x 60" DEPTH SUMP BASIN WITH 4" DIA. INLET TO BE GLASS FILLED POLYPROPYLENE BASE WITH BUILT-IN STRAINER. BASIN COVER: BOLT FASTENING CAPABILITY, 2" VENT, 2" DISCHARGE OUTLET.	ZOELLER MODEL N282 DUPLEX WITH QLS SERIES	1/2	1725	115	1	10 FT	21 GPM	PROVIDE WITH GALVANIZED RAILS, DISCHARGE PIPING WITH SHUTOFF AND CHECK VALVES, DUPLEX ALTERNATING CONTROL PANEL, AND THREE FLOAT SWITCHES.
WH	1	GAS-FIRED WATER HEATER: 1350 MBH INPUT, 1242 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER. STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 30:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1968 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM.	AERCO INN 1350	-		120	1	-	-	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ REFER TO DETAIL 6/P-502 FOR PIPING.
WH	2	GAS-FIRED WATER HEATER: 1350 MBH INPUT, 1242 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER. STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 30:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1968 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM.	AERCO INN 1350	-		120	1	-	-	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ REFER TO DETAIL 6/P-502 FOR PIPING.
WH	3	GAS-FIRED WATER HEATER: 1350 MBH INPUT, 1242 MBH OUTPUT, NATURAL GAS, CONDENSING, FULLY MODULATING WATER HEATER. STAINLESS STEEL HEAT EXCHANGER, 160 PSIG ASME WORKING PRESSURE CERTIFIED, INTEGRAL SEQUENCING CONTROLS, 30:1 TURNDOWN RATIO. UNIT SHALL BE CAPABLE OF HEATING 1968 GPH FROM 40°F TO 120°F. MAX GAS INPUT PRESSURE OF 14" W.C. MANUFACTURER PROVIDED WATER HEATER MANAGEMENT SYSTEM.	AERCO INN 1350	-		120	1	-	-	INTERFACE WITH BUILDING MANAGEMENT SYSTEM. ■ REFER TO DETAIL 6/P-502 FOR PIPING.
WH	FTR	FUTURE WATER HEATER	FUTURE WATER HEATER	-			-	-	-	FUTURE WATER HEATER
WS	1	TRIPLEX WATER SOFTENER: US FDA APPROVED DFT WITH AN EPOXY PHENOLIC COATED TANK. TRIPLEX UNIT. PROGRESSIVE FLOW. ONE (1) BRINE DAY TANK. AUTOMATIC CONTROLS. EACH MINERAL TANK RATED FOR 183 GPM CONTINUOUS FLOW AT 15-PSIG DROP, 252 GPM PEAK FLOW AT 25-PSIG DROP. 3" MANIFOLD PIPE. THREE (3) 36"x60" TANKS AND ONE (1) 48"x60" BRINE TANK, 400 KGR MINIMUM AT 120 LBS SALT AND 600 KGR MAXIMUM AT 300 LBS SALT CAPACITY.	CULLIGAN CSM 600-3 WITH BRINE RECLAIM KIT MODEL MVP	-		120	1	-	350 GPM	

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: KB CHK'D: JRA
DESIGNED: KB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

PLUMBING EQUIPMENT SCHEDULE

DRAWING NUMBER P-602
PLUMBING

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HVAC KEYNOTES

230501	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230502	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230503	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
230901	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR.
230902	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR. REFER TO DUCTWORK PLANS FOR LOCATION.
230903	PROVIDE LOCKABLE COVER.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
230905	PROVIDE REFRIGERANT MONITOR FOR REFRIGERANT EXHAUST PER IMC SECTION 1105.6.3.2. REFRIGERANT DETECTOR SHALL CONTAIN AN AUDIBLE AND VISUAL ALARM PER IFC SECTION 606.8.
230906	EMERGENCY SHUT-OFF BUTTON, MOUNTED AT 4'-6" PER IFC SECTION 606.
230907	PROVIDE RETURN DUCT SMOKE DETECTOR PER DIVISION 28 SPECIFICATIONS.
230908	THERMOSTAT SERVING ROOF TOP UNIT.
232102	CAP HWS, HWR, CHWS, CHWR PIPES FOR FUTURE EXPANSION.
232103	3/4" HWS, HWR, CHWS, CHWR PIPES FROM ABOVE SERVING FCU. SEE SHEET M-202-AB FOR CONTINUATION.
232104	SEE SHEET M-202-AB FOR HWS AND HWR PIPE CONTINUATION.
232105	3/4" HWS, HWR, CHWS, CHWR PIPES FROM ABOVE SERVING FCU. SEE SHEET M-202-E FOR CONTINUATION.
232106	3/4" HWS, HWR, CHWS, CHWR PIPES FROM ABOVE SERVING FCU. SEE SHEET M-202-D FOR CONTINUATION.
232107	SEE SHEET M-201-E FOR HWS AND HWR PIPE CONTINUATION.
232108	SEE SHEET M202-AB FOR HWS, HWR, CHWS, CHWR PIPE CONTINUATION.
232109	SEE SHEET M201-A FOR HWS, HWR, CHWS, CHWR PIPE CONTINUATION.
232112	SEE SHEET M201-E FOR HWS AND HWR PIPE CONTINUATION.
232113	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-D FOR CONTINUATION.
232114	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-E FOR CONTINUATION.
232117	WATER MAKE-UP LINE. CONNECT TO DCW LINE. REFER TO PLUMBING DRAWINGS.
232118	CONDENSATE LINE DOWN TO MOP BASIN.
232119	COORDINATE PIPE ROUTING AROUND STRUCTURAL MEMBERS.
232120	PROVIDE FITTINGS AND ISOLATION VALVE FOR CONNECTION OF FUTURE EQUIPMENT.
232121	REFRIGERANT PIPING SIZE AND CONFIGURATION TO BE PER MANUFACTURER RECOMMENDATIONS. PROVIDE PIPING ALONG GROUND ON EXTERIOR ON PIPE STANDS.
232122	CONDENSATE LINE DOWN TO LOWER LEVEL. PIPING TO BE ENCLOSED WITHIN PROVIDED CHASEWAY.
233101	50x36 SUPPLY AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233102	42x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233103	20x32 EXHAUST AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233104	8" BOILER INTAKE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK.
233105	8" BOILER EXHAUST FLUE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233106	12x12 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233107	10x10 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233108	24x24 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233109	16x16 EXHAUST DUCT UP TO ROOF MOUNTED SMOKE EXHAUST FAN.
233110	10" DRYER EXHAUST VENT THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK AND BIRDSCREEN.
233111	24x36 EXHAUST DUCT RISER UP TO ROOF MOUNTED EXHAUST FAN. SEE SHEET M-121 FOR FAN LOCATION.
233112	24x36 MAKE-UP AIR DUCT UP TO ROOF HOOD. SEE SHEET M-121 FOR LOUVER LOCATION.
233113	CONCENTRIC VENT SERVING INFRARED HEATERS.
233114	36x50 SUPPLY AIR DUCT RISER TO BELOW. SEE SHEET M-101-C FOR CONTINUATION.
233115	24x44 RETURN AIR DUCT RISER TO BELOW. SEE SHEET M-101-C FOR CONTINUATION.
233116	48x30 SUPPLY AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233117	42x24 RETURN AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233118	40x16 EXHAUST AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233120	COORDINATE DUCT HEIGHT WITH STORM PIPE.
233121	LINE OF ROOF HATCH AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233122	COORDINATE VAV BOX HEIGHT TO PROVIDE ADEQUATE CLEARANCE OF HOIST RAIL SYSTEM IN THIS AREA.
233123	54x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233124	48x30 SUPPLY AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.

HVAC KEYNOTES

233125	36x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233126	24" PLENUM IMMEDIATELY BEFORE LOUVER WITH BOTTOM SLOPED TOWARD LOUVER.
233127	6" WATER HEATER INTAKE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK AND BIRD SCREEN.
233128	6" WATER HEATER EXHAUST FLUE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233129	4" DRYER EXHAUST UP THRU ROOF. PROVIDE BOOSTER FAN. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233130	6" EXHAUST FROM LOWER LEVEL TO ABOVE. HOLD DUCT RISER AS CLOSE TO PERIMETER WALL AS POSSIBLE.
233131	24x24 EXHAUST DUCT RISER UP TO ROOF MOUNTED REFRIGERANT DETECTION EXHAUST FAN. DUCT OPENING 18" A.F.F.
233132	AIR TERMINAL SERVING DOAS UNIT. COORDINATE LOCATION TO NOT CONFLICT WITH ELECTRICAL EQUIPMENT IN THIS SPACE.
233133	PROVIDE INTAKE / EXHAUST FLUE CURBS SEALED TIGHTLY FOR FUTURE WATER HEATER. REFERENCE ARCHITECUTRAL DRAWING A-122.
233134	PROVIDE INTAKE / EXHAUST FLUE CURBS SEALED TIGHTLY FOR FURTER BOILER. REFERNCE ARCHITECUTRAL DRAWINGS.
233135	8" EXHAUST DUCT SERVING WELDER IN FACILITY WORKSHOP. PROVIDE VENT CAP.
233136	16"x18" SUPPLY AIR DUCT RISER FROM RTU-1 ABOVE.
233137	DUCT RISER SERVING FUME HOOD UP THRU ROOF. PROVIDE BACKDRAFT DAMPER, GOOSE NECK TERMINATION, AND BIRD SCREEN.
233138	24"x24" DUCT RISER UP TO INTAKE ROOF HOOD. DUCT OPENING 12'-8" A.F.F.
233139	TRANSFER AIR ELBOW WITHOUT TURNING VANES.
233140	6" EXHAUST RISER TO CONTOL ROOM ABOVE. HOLD DUCT RISER AS CLOSE TO PERIMETER WALL AS POSSIBLE.
233141	12" DUCT RISER TO ABOVE DOAS UNIT ON ROOF.
233142	30x20 EXHAUST AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233144	8" EXHAUST DUCT RISER UP THRU ROOF.
233145	EXHAUST DUCT FROM TRASH ROOM.
233146	8" EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233147	AIR TERMINAL BOTTOM TO BE LOCATED 18" A.F.F.
233148	LINE OF SKYLIGHT AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233149	COMPRESSORS SERVING KITCHEN COOLER AND FREEZER. REFER TO KITCHEN DRAWINGS.
233150	EXHAUST HOOD. REFER TO KITCHEN DRAWINGS.
233151	MAKE-UP AIR UNIT. REFER TO KITCHEN DRAWINGS.
233152	30"x16" SUPPLY AIR RISER UP TO MAKE-UP AIR UNIT ON ROOF.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
233302	TRANSFER AIR DUCT BOOT WITHOUT TURNING VANES. PROVIDE INTERNAL LINING PER SPECIFICATIONS.
233303	SMOKE DAMPER. SEE CONTROL DRAWINGS.
233304	PROVIDE MOTORIZED CONTROL DAMPER.
233305	PROVIDE REMOTE DAMPER OPERATORS FOR SECURITY DIFFUSERS NOT AVAILABLE WITH INTEGRAL, FRONT OPERATED VOLUME DAMPERS. REMOTE OPERATOR TO BE PROVIDED FOR VOLUME DAMPERS LOCATED ABOVE SECURITY CEILINGS WITHOUT NEARBY ACCESS DOOR. THE OPERATOR SHALL BE PROVIDED WITH A FLUSH CEILING MOUNTED COVERPLATE WITH SECURITY SCREWS.
233306	PROVIDE FIRE DAMPER IN DUCT RISER THRU PRECAST CONCRETE FLOOR.
233307	FIRE SMOKE CONTROL STATION (FSCS) LOCATION.
233308	PROVIDE DUCT SILENCER SA-AHU-1 SUPPLY #1 PER SPECIFICATIONS 23 33 00.
233309	PROVIDE DUCT SILENCER SA-AHU-1 SUPPLY #2 PER SPECIFICATIONS 23 33 00.
233310	PROVIDE DUCT SILENCER RA-AHU-1 RETURN #1 PER SPECIFICATIONS 23 33 00.
233311	PROVIDE DUCT SILENCER RA-AHU-1 RETURN #2 PER SPECIFICATIONS 23 33 00.
233312	PROVIDE DUCT SILENCER SA-AHU-2 SUPPLY #1 PER SPECIFICATIONS 23 33 00.
233313	PROVIDE DUCT SILENCER SA-AHU-2 SUPPLY #2 PER SPECIFICATIONS 23 33 00.
233314	PROVIDE DUCT SILENCER RA-AHU-2 RETURN PER SPECIFICATIONS 23 33 00.
233315	PROVIDE DUCT SILENCER EA-AHU-2 EXHAUST #1 PER SPECIFICATIONS 23 33 00.
233316	PROVIDE DUCT SILENCER EA-AHU-2 EXHAUST #2 PER SPECIFICATIONS 23 33 00.
233317	PROVIDE DUCT SILENCER SA-AHU-3 SUPPLY PER SPECIFICATIONS 23 33 00.
233318	PROVIDE DUCT SILENCER RA-AHU-3 RETURN PER SPECIFICATIONS 23 33 00.
233319	PROVIDE DUCT SILENCER EA-AHU-3 EXHAUST PER SPECIFICATIONS 23 33 00.
233320	PROVIDE DUCT SILENCER SA-AHU-4 SUPPLY PER SPECIFICATIONS 23 33 00.
233321	PROVIDE DUCT SILENCER RA-AHU-4 RETURN PER SPECIFICATIONS 23 33 00.
233322	PROVIDE DUCT SILENCER EA-AHU-4 EXHAUST PER SPECIFICATIONS 23 33 00.
235501	4" FLUE TO CONCENTRIC VENT.
235502	4" COMBUSTION AIR INTAKE TO CONCENTRIC VENT.
235503	CONCENTRIC VENT THRU ROOF.
237301	OUTSIDE AIR INTAKE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST OUTLET.

SYMBOLS

RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HEATED HOT WATER SUPPLY
HWR	HEATED HOT WATER RETURN
AxB	RECTANGULAR DUCT DIMENSION
A/B	FLAT-OVAL DUCT DIMENSION
AØ	ROUND DUCT DIMENSION
	RECTANGULAR DUCT - UP
	RECTANGULAR DUCT - DOWN
	ROUND OR OVAL DUCT - UP
	ROUND OR OVAL DUCT - DOWN
	SUPPLY AIR DIFFUSER (SQUARE)
	RETURN AIR GRILLE (SQUARE)
	RETURN AIR GRILLE OR EXHAUST REGISTER (RECTANGULAR)
	EXHAUST GRILLE (SQUARE)
S D	DUCT SMOKE DETECTOR
BD	BACKDRAFT DAMPER
	VOLUME DAMPER
	ROUND DIFFUSER
	SLOT DIFFUSER
BPS	BUILDING PRESSURE SENSOR
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
NO2	NITROGEN DIOXIDE SENSOR
T	THERMOSTAT
TS	TEMPERATURE SENSOR
T	THERMOSTAT
TS	TEMPERATURE SENSOR
X X	EQUIPMENT TYPE (SEE ABBREVIATIONS) / SCHEDULE #
X X	SECTION REFERENCE NUMBER / DRAWING WHERE SECTION WAS CUT, OR DRAWING TO SEE FOR SECTION

ABBREVIATIONS

AMPS	AMPERES
ADJ.	ADJUSTABLE
ATC	AUTOMATIC TEMPERATURE CONTROL
APD.	AIR PRESSURE DROP
A.F.F.	ABOVE FINISHED FLOOR
BD	BACKDRAFT DAMPER
CF	CHEMICAL FEEDER
CFM	CUBIC FEET PER MINUTE
CO.	COMPANY
COND.	CONDENSATE
D	DRAIN
DSP	DUCT STATIC PRESSURE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELECT.	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
F	FIRE DAMPER
FPM	FEET PER MINUTE
FD	FLOOR DRAIN
FT	FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
GC	GENERAL CONTRACTOR
HC	HEATING COIL
HP	HORSE POWER
HR	HOUR
HTG.	HEATING
I.D.	IDENTIFICATION
IH	INTAKE HOOD
IN	INCH
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LBS	POUNDS
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MIN.	MINIMUM
NO.	NUMBER
OA	OUTSIDE AIR
P.C.	PLUMBING CONTRACTOR
PH	PHASE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RF	RELIEF AIR FAN
RH	RELIEF AIR HOOD
RM	ROOM
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
S	SMOKE DAMPER
SE	SMOKE EXHAUST
SENS	SENSIBLE
TSP	TOTAL STATIC PRESSURE
V	VENT
VAV	VARIABLE AIR VOLUME BOX
VOLTS	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W.C.	WATER COLUMN
W.O.	WALL OPENING
WPD	WATER PRESSURE DROP

GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH INDIANA MECHANICAL CODE, LATEST APPLICABLE EDITION, THE AUTHORITY HAVING JURISDICTION AND AS SPECIFIED (WHICHEVER IS MORE STRINGENT).
2. IF NON-DESIGN BASE EQUIPMENT IS SELECTED, THIS CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS FOR MODIFICATION TO THE PROPOSED BUILDING SYSTEM CAUSED BY SELECTION OF THE NON-DESIGN BASE EQUIPMENT. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIALS, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.
3. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS. IF DIMENSIONS CANNOT BE ACCURATELY DETERMINED, REQUEST THE INFORMATION FROM THE ARCHITECT/ENGINEER.
4. KEY NOTES ARE MEANT AS A GENERAL GUIDE FOR TYPICAL LOCATIONS. CONTRACTOR TO PERFORM FULL EXTENT OF WORK REQUIRED TO ACCOMPLISH DESIGN INTENT.
5. CONTRACTOR IS RESPONSIBLE FOR ALL WORK IDENTIFIED ON ALL DRAWINGS AND INFORMATION IN THE PROJECT MANUAL, AS A COMPLETE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SPECIFIC SCOPE OF WORK FOR ANY SUBCONTRACTORS FOR THIS PROJECT EXCEPT AS SPECIFICALLY NOTED.
6. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR FIRE PROTECTION ITEMS MAY BE REQUIRED. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE AND SECURITY RATING OF THE WALL AND CEILING ASSEMBLY.
7. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AS NECESSARY AND COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.
8. DUCTWORK:
   - A. ALL LISTED DUCTWORK DIMENSIONS ARE CLEAR AIR FLOW DIMENSIONS.
   - B. ALL DUCTS IN FINISHED ROOMS AND SPACES SHALL BE CONCEALED IN CHASES OR ABOVE THE CEILINGS, UNLESS OTHERWISE NOTED.
   - C. FIELD VERIFY LOCATION OF BEAMS, GENERAL STRUCTURE, LIGHTING, PIPING, ETC., BEFORE FABRICATION AND INSTALLATION OF DUCTWORK COORDINATE ELEVATIONS, OFFSETS, AND TRANSITIONS AS REQUIRED.
   - D. MAXIMUM LENGTH OF FLEX DUCT SHALL BE 5'-0". FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK IS EXPOSED. THE LAST ELBOW BEFORE CONNECTION TO AN AIR DEVICE SHALL BE A HARD DUCT.
   - E. VOLUME DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTS.
   - F. THE ELBOWS FOR DUCTWORK SHALL HAVE TURNING VANES UNLESS NOTED OTHERWISE.
   - G. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR AIR DEVICE LOCATIONS.
   - H. ALL AIR DEVICES IN CMU WALLS SHALL MATCH BLOCK COURSING.
   - I. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS, SMOKE BARRIERS, AND SECURITY WALLS. CONTRACTOR SHALL PROVIDE FIRE DAMPERS, SMOKE DAMPERS, OR SECURITY BARS IN ALL DUCTS PENETRATING SAID WALLS, WHETHER INDICATED ON THE MECHANICAL PLANS OR NOT.
9. ALL STRUCTURAL OPENINGS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWING. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.
10. ALL HANGER SYSTEMS FOR PIPING AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM.
11. COORDINATE ALL WORK WITH EXISTING WORK TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
12. CONNECTION TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATION.
13. ALL MECHANICAL EQUIPMENT REQUIRING NATURAL GAS SHALL BE FURNISHED WITH PRESSURE REGULATOR. THE GAS PRESSURE REGULATOR SHALL REGULATE THE GAS PRESSURE BETWEEN THE INLET AND OPERATING PRESSURE OF THE EQUIPMENT. PROVIDE VENT TO OUTDOOR FROM EACH REGULATOR.
14. ALL HVAC CONTROL WIRING SHALL BE PROVIDED BY DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED. EXPOSED CONTROL WIRING SHALL BE IN CONDUIT. TEMPERATURE CONTROL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND LOCATING ANY 24V TRANSFORMERS REQUIRED FOR CONTROL COMPONENTS. COORDINATE WITH DIV 26 CONTRACTOR FOR POWER WIRING.
15. HVAC EQUIPMENT, INCLUDING HEAT TRACE, SHALL BE CONNECTED TO A BUILDING MANAGEMENT SYSTEM.
16. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.
17. TRADE CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PENETRATIONS WITH STRUCTURAL DRAWING REQUIREMENTS. ADDITIONALLY, THE TRADE CONTRACTORS SHALL COORDINATE ALL PENETRATIONS THROUGH PRECAST CONCRETE UNITS WITH THE PRECAST CONCRETE MANUFACTURER TO PRODUCE A SHOP DRAWING SUBMITTAL NOTING ALL PENETRATIONS AND THEIR SIZES. TRADE CONTRACTORS AND PRECAST MANUFACTURE SHALL PROVIDE DOCUMENTATION WITH THE PRECAST SHOP DRAWING SUBMITTAL INDICATING THAT ALL TRADES HAVE SIGNED OFF ON ALL AFOREMENTIONED COORDINATION.
18. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 64 SQUARE INCHES. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.
19. CONTRACTOR TO COORDINATE WITH DIVISION 13 SPECIFICATION FOR PREFABRICATED CELLS. LOCATIONS AND CONNECTION SIZES TO GRILLES PROVIDED AS PART OF CELLS TO BE COORDINATED WITH PREFABRICATED CELL PROVIDER.

HVAC BASIS OF DESIGN

SUMMER	
OUTDOOR	93°FDB, 76.2°F WB
INDOOR	75°FDB, 63°F WB
WINTER	
OUTDOOR	-3°F DB
INDOOR	70°F DB

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER 9/4/19

NO.	REVISION	DATE

DRAWN: DWB CHKD: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
GENERAL INFORMATION

DRAWING NUMBER M-001
MECHANICAL

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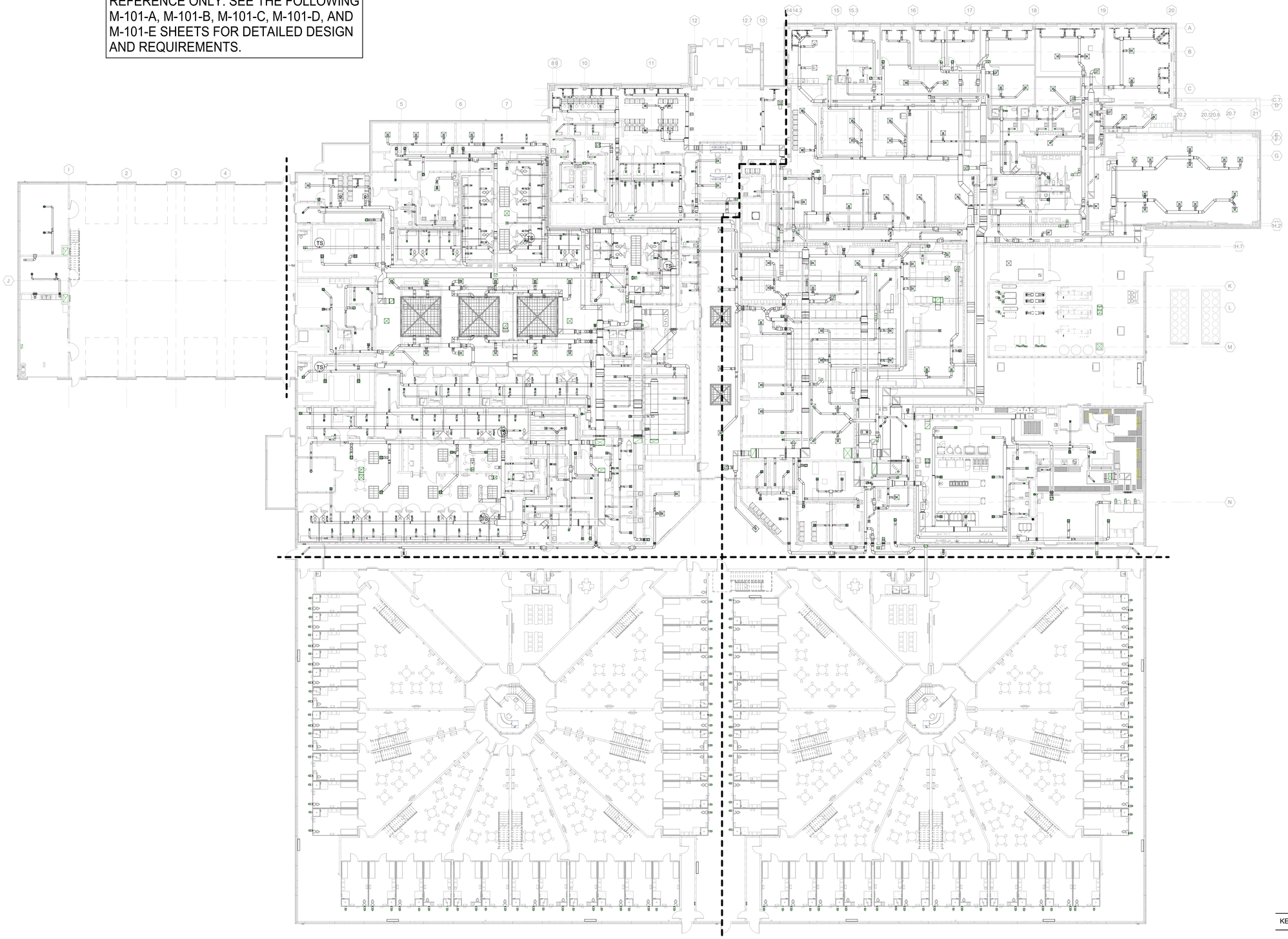
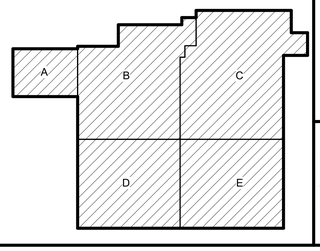
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING M-101-A, M-101-B, M-101-C, M-101-D, AND M-101-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



1 M-101 FIRST FLOOR DUCTWORK PLAN - OVERALL
SCALE: 1/16" = 1'-0"
NORTH

KEY PLAN



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9/5/19

NO.	REVISION	DATE

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DESIGNED: DWB
APPRV'D: JRA
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PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR DUCTWORK PLAN - OVERALL

DRAWING NUMBER M-101
MECHANICAL

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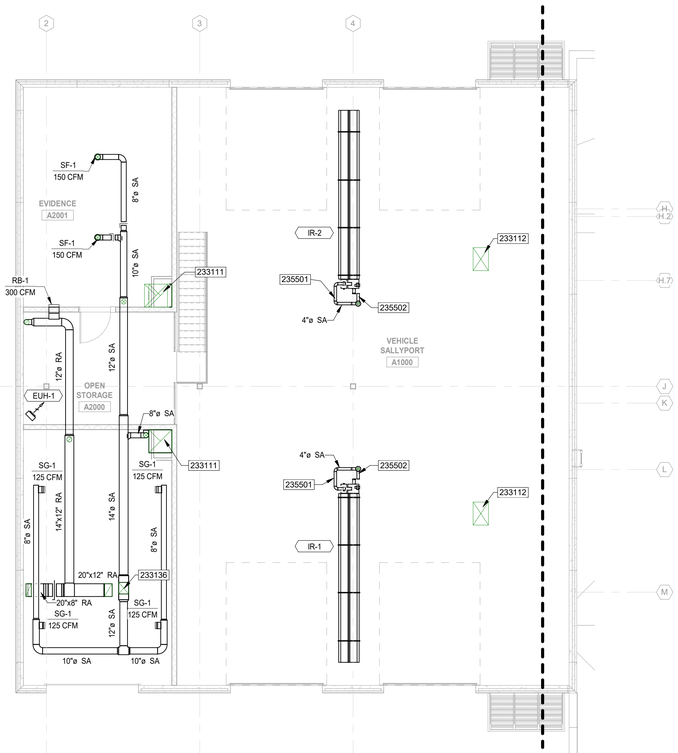
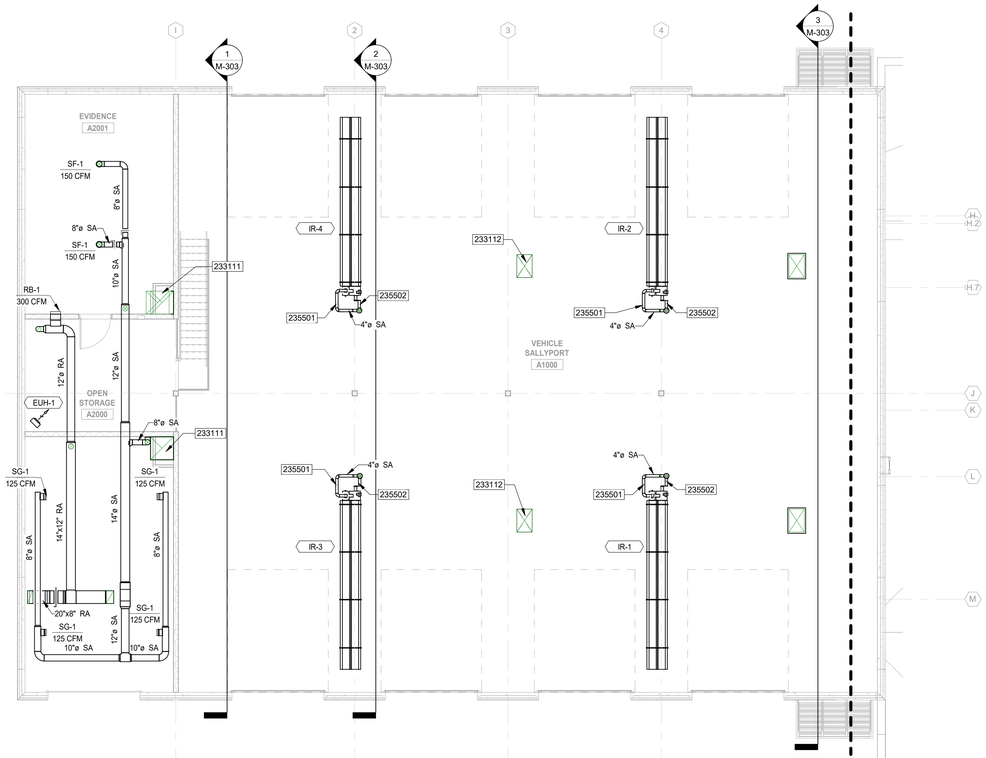
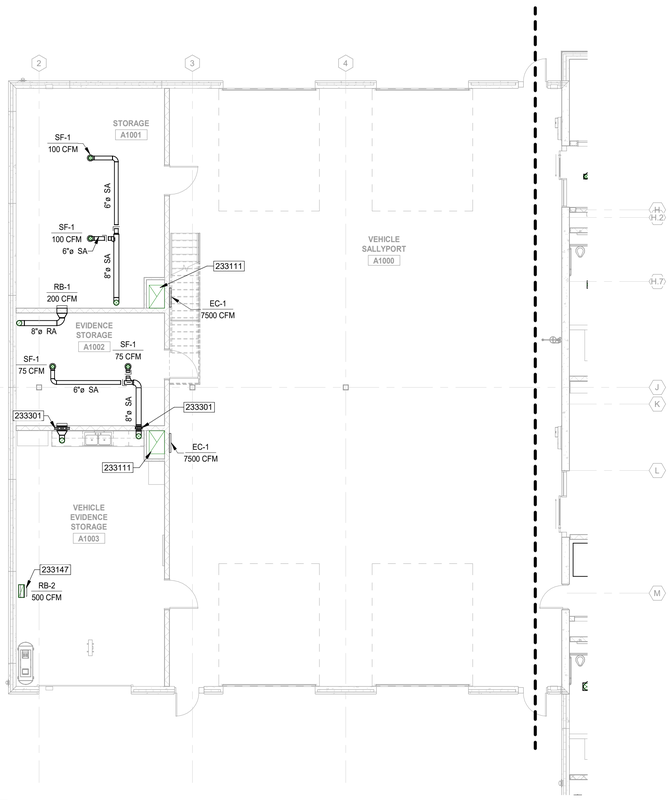


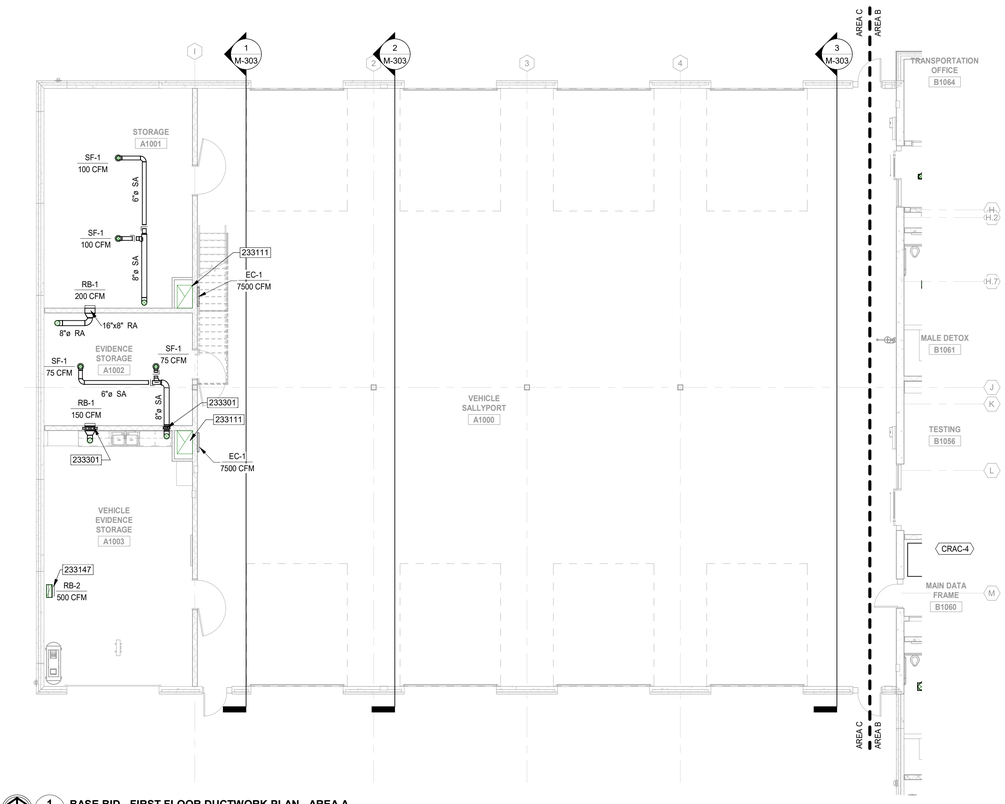
4 ALTERNATE BID - MEZZANINE DUCTWORK PLAN - AREA A
M-101-A SCALE: 1/8" = 1'-0"
NORTH



2 BASE BID - MEZZANINE DUCTWORK PLAN - AREA A
M-101-A SCALE: 1/8" = 1'-0"
NORTH



3 ALTERNATE BID - FIRST FLOOR DUCTWORK PLAN - AREA A
M-101-A SCALE: 1/8" = 1'-0"
NORTH



1 BASE BID - FIRST FLOOR DUCTWORK PLAN - AREA A
M-101-A SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

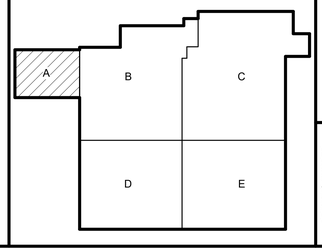
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

233111	24x36 EXHAUST DUCT RISER UP TO ROOF MOUNTED EXHAUST FAN. SEE SHEET M-121 FOR FAN LOCATION.
233112	24x36 MAKE-UP AIR DUCT UP TO ROOF HOOD. SEE SHEET M-121 FOR LOUVER LOCATION.
233136	16"x18" SUPPLY AIR DUCT RISER FROM RTU-1 ABOVE.
233147	AIR TERMINAL BOTTOM TO BE LOCATED 18" A.F.F.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
235501	4" FLUE TO CONCENTRIC VENT.
235502	4" COMBUSTION AIR INTAKE TO CONCENTRIC VENT.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
PE-10100224
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST AND MEZZANINE DUCTWORK FLOOR PLANS - AREA A

DRAWING NUMBER M-101-A
MECHANICAL

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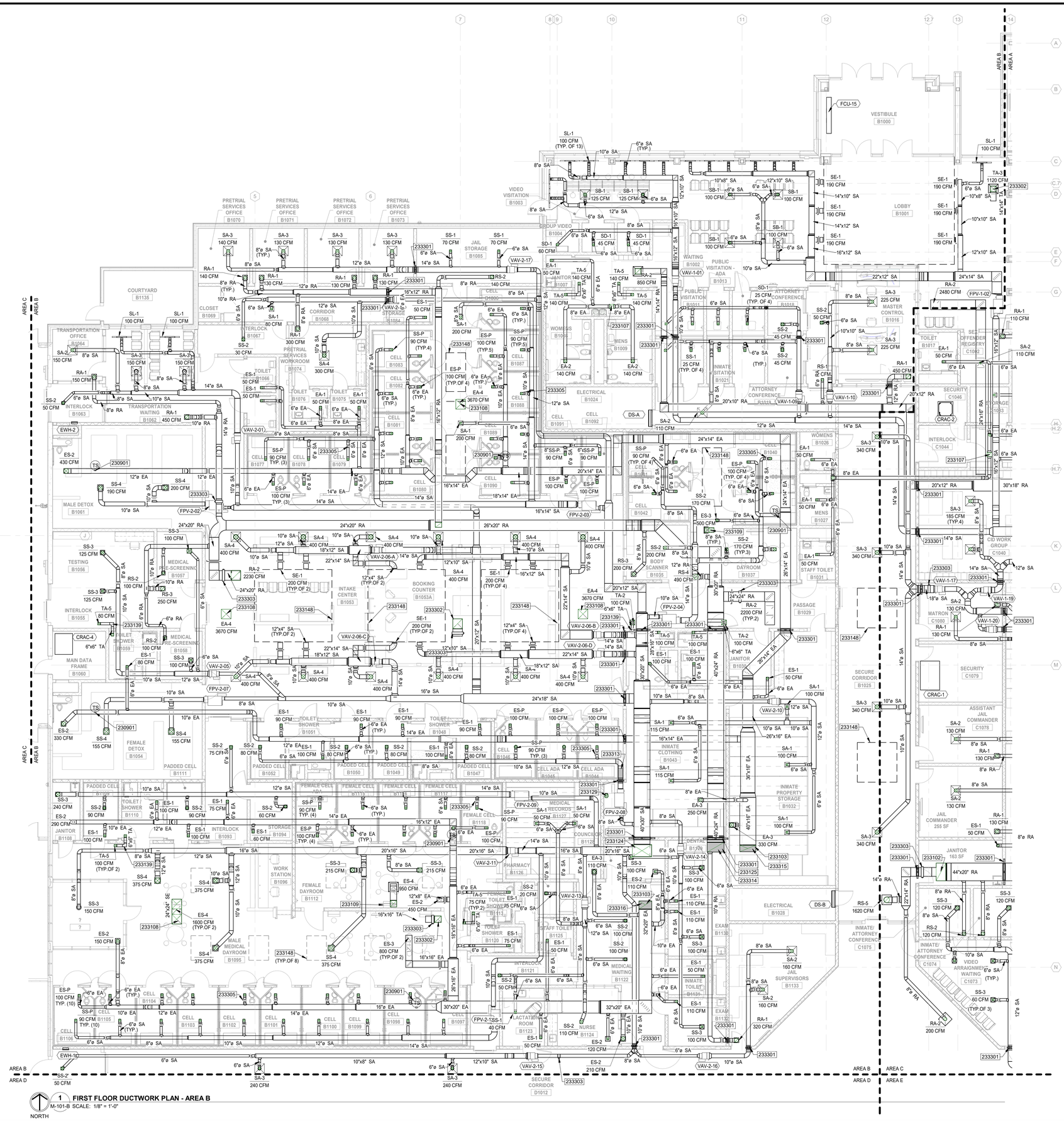


1 FIRST FLOOR DUCTWORK PLAN - AREA B
M-101-B SCALE: 1/8" = 1'-0"

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

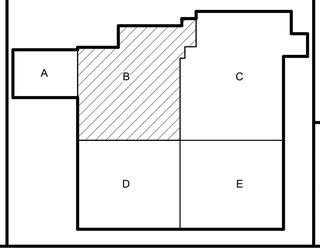
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230901	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR.
233102	42x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233103	20x32 EXHAUST AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233107	10x10 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233108	24x24 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233109	16x16 EXHAUST DUCT UP TO ROOF MOUNTED SMOKE EXHAUST FAN.
233124	48x30 SUPPLY AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233125	36x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233129	4" DRYER EXHAUST UP THRU ROOF. PROVIDE BOOSTER FAN. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233139	TRANSFER AIR ELBOW WITHOUT TURNING VANES.
233148	LINE OF SKYLIGHT AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
233302	TRANSFER AIR DUCT BOOT WITHOUT TURNING VANES. PROVIDE INTERNAL LINING PER SPECIFICATIONS.
233303	SMOKE DAMPER. SEE CONTROL DRAWINGS.
233305	PROVIDE REMOTE DAMPER OPERATORS FOR SECURITY DIFFUSERS NOT AVAILABLE WITH INTEGRAL, FRONT OPERATED VOLUME DAMPERS. REMOTE OPERATOR TO BE PROVIDED FOR VOLUME DAMPERS LOCATED ABOVE SECURITY CEILINGS WITHOUT NEARBY ACCESS DOOR. THE OPERATOR SHALL BE PROVIDED WITH A FLUSH CEILING MOUNTED COVERPLATE WITH SECURITY SCREWS.
233313	PROVIDE DUCT SILENCER SA-AHU-2 SUPPLY #2 PER SPECIFICATIONS 23 33 00.
233314	PROVIDE DUCT SILENCER RA-AHU-2 RETURN PER SPECIFICATIONS 23 33 00.
233315	PROVIDE DUCT SILENCER EA-AHU-2 EXHAUST #1 PER SPECIFICATIONS 23 33 00.
233316	PROVIDE DUCT SILENCER EA-AHU-2 EXHAUST #2 PER SPECIFICATIONS 23 33 00.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHKD: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR DUCTWORK PLAN - AREA B

DRAWING NUMBER M-101-B
MECHANICAL

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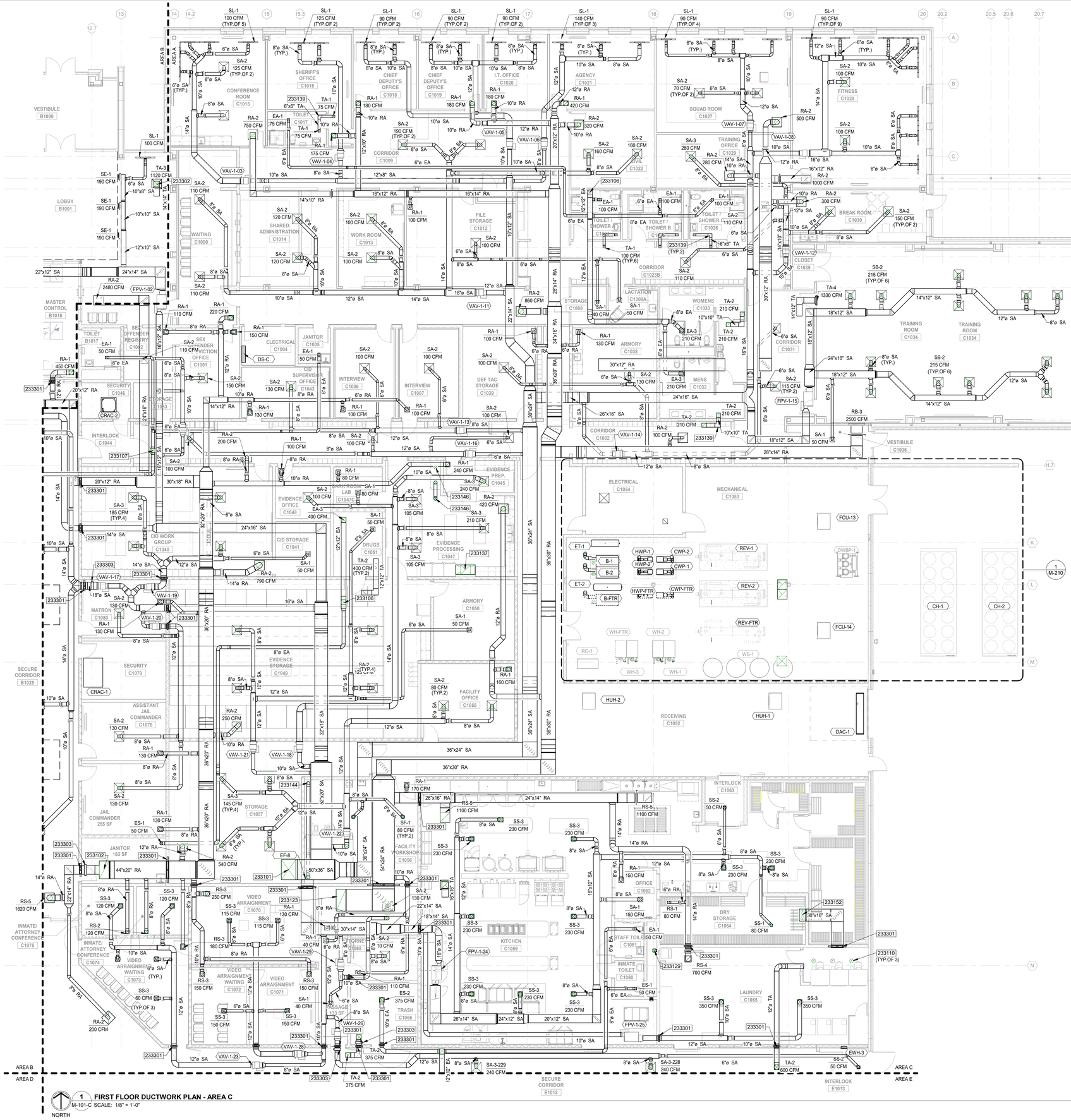


1 FIRST FLOOR DUCTWORK PLAN - AREA C
M-101-C SCALE: 1/8" = 1'-0"

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

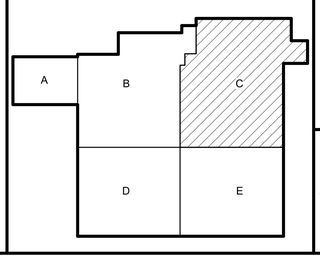
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

233101	50x36 SUPPLY AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233102	42x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233106	12x12 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233107	10x10 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233110	10" DRYER EXHAUST VENT THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK AND BIRDSCREEN.
233123	54x24 RETURN AIR DUCT RISER UP TO MECHANICAL PENTHOUSE ABOVE. SEE SHEET M-102-AB FOR CONTINUATION.
233129	4" DRYER EXHAUST UP THRU ROOF. PROVIDE BOOSTER FAN. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233137	DUCT RISER SERVING FUME HOOD UP THRU ROOF. PROVIDE BACKDRAFT DAMPER, GOOSE NECK TERMINATION, AND BIRD SCREEN.
233139	TRANSFER AIR ELBOW WITHOUT TURNING VANES.
233144	8" EXHAUST DUCT RISER UP THRU ROOF.
233146	8" EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233152	30"x16" SUPPLY AIR RISER UP TO MAKE-UP AIR UNIT ON ROOF.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
233302	TRANSFER AIR DUCT BOOT WITHOUT TURNING VANES. PROVIDE INTERNAL LINING PER SPECIFICATIONS.
233303	SMOKE DAMPER. SEE CONTROL DRAWINGS.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE-10100214
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/4/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR DUCTWORK PLAN - AREA C

DRAWING NUMBER M-101-C
MECHANICAL

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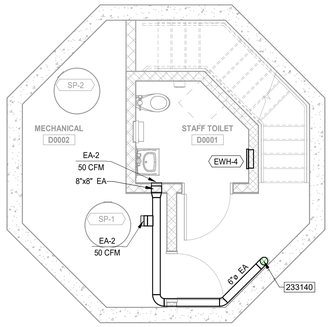
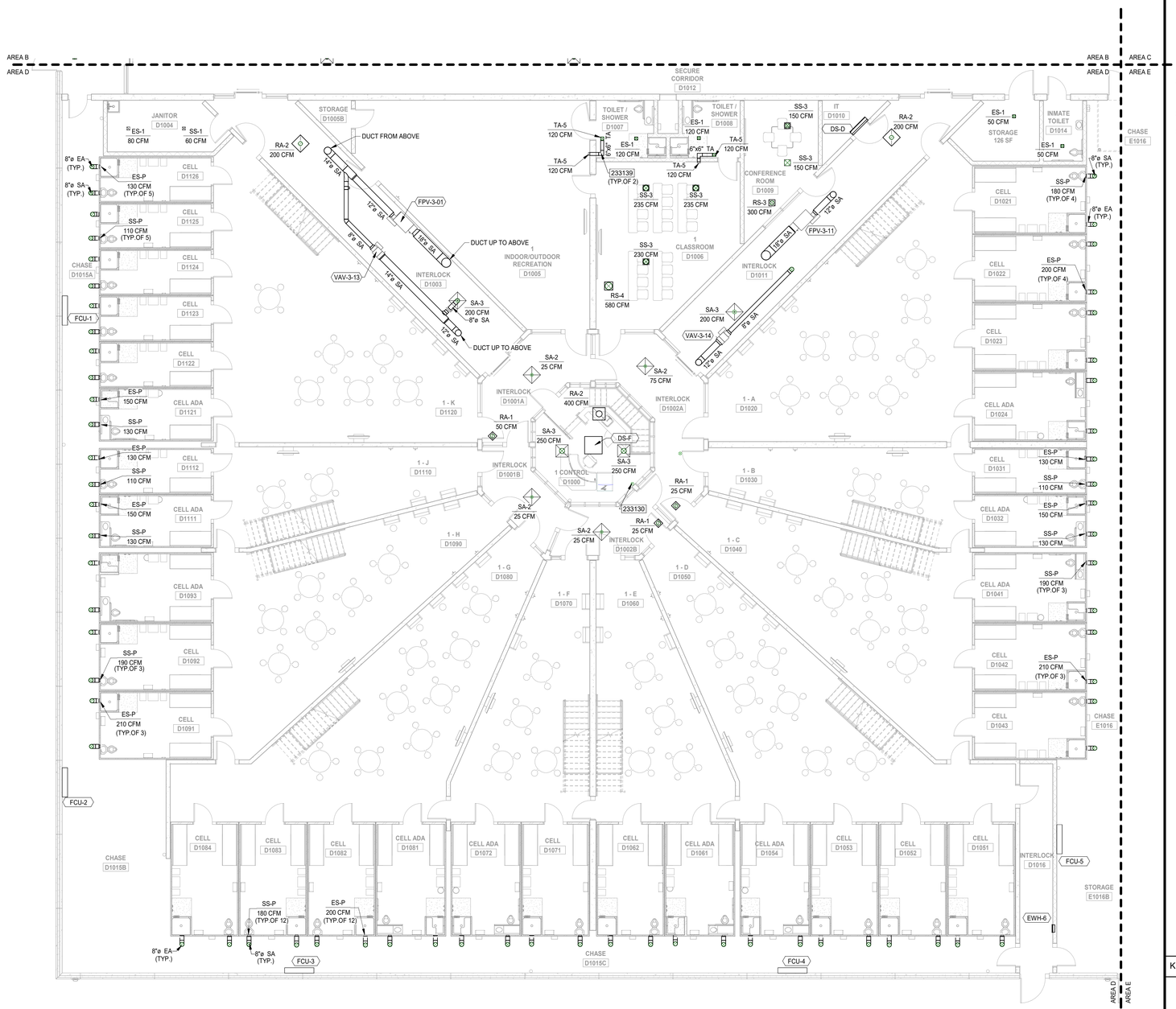


2 LOWER LEVEL FLOOR DUCTWORK PLAN - STAFF TOILET - AREA D
M-101-D SCALE: 1/4" = 1'-0"
NORTH



1 FIRST FLOOR DUCTWORK PLAN - AREA D
M-101-D SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

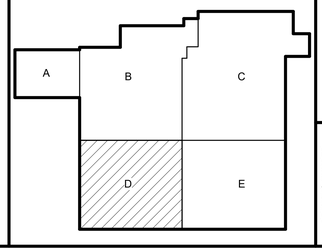
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

233130	6" EXHAUST FROM LOWER LEVEL TO ABOVE. HOLD DUCT RISER AS CLOSE TO PERIMETER WALL AS POSSIBLE.
233139	TRANSFER AIR ELBOW WITHOUT TURNING VANES.
233140	6" EXHAUST RISER TO CONTOL ROOM ABOVE. HOLD DUCT RISER AS CLOSE TO PERIMETER WALL AS POSSIBLE.

KEY PLAN



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ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: ESA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR DUCTWORK PLAN - AREA D

DRAWING NUMBER M-101-D
MECHANICAL

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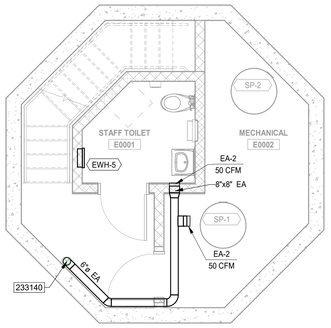
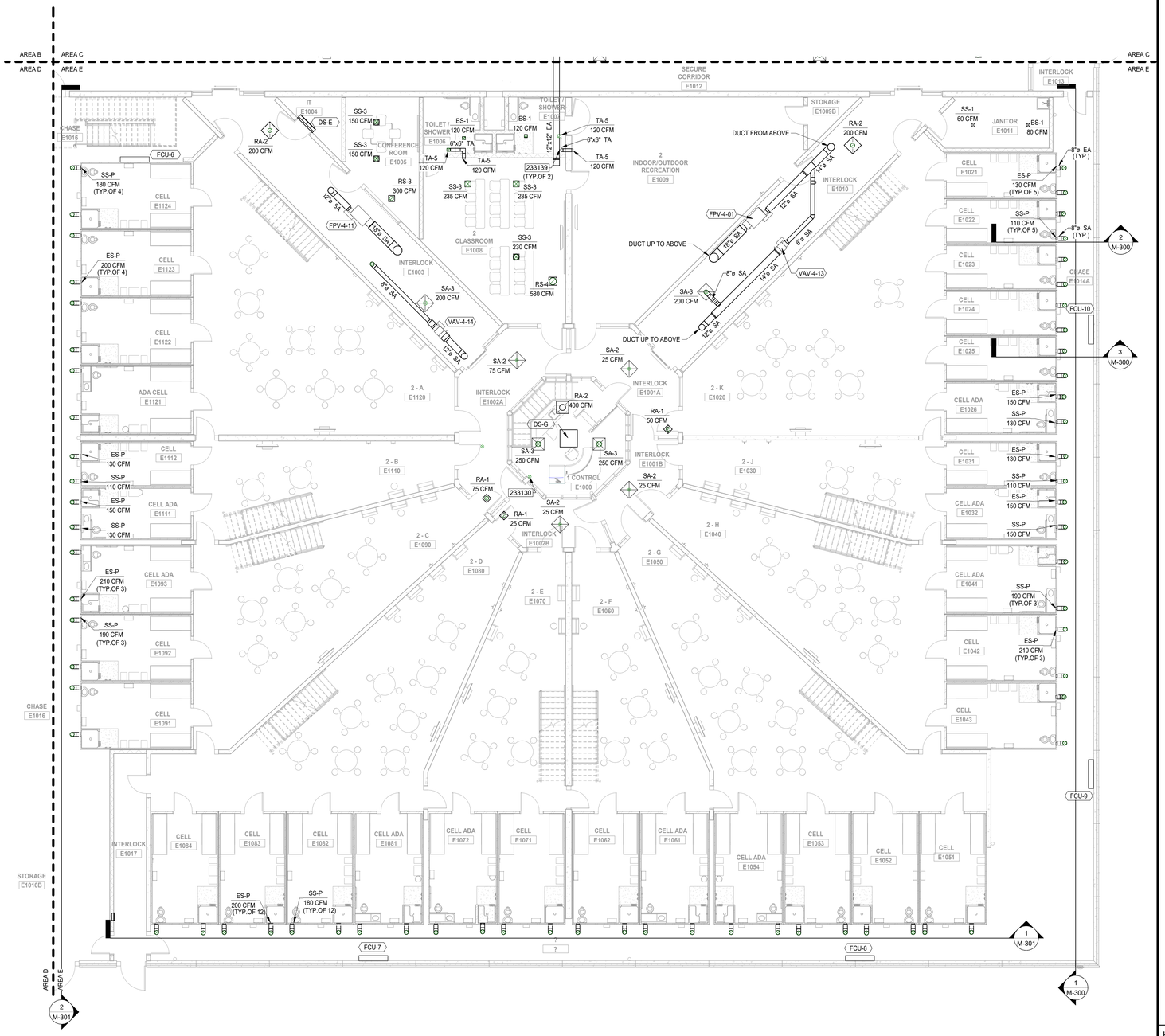


2 LOWER LEVEL FLOOR DUCTWORK PLAN - STAFF TOILET - AREA E
M-101-E SCALE: 1/4" = 1'-0"
NORTH



1 FIRST FLOOR DUCTWORK PLAN - AREA E
M-101-E SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

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HVAC KEYNOTES

233130	6" EXHAUST FROM LOWER LEVEL TO ABOVE. HOLD DUCT RISER AS CLOSE TO PERIMETER WALL AS POSSIBLE.
233139	TRANSFER AIR ELBOW WITHOUT TURNING VANES.
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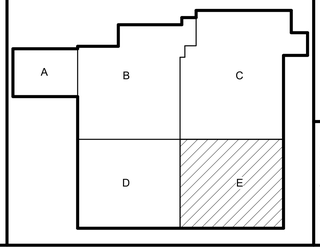
KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100224
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: ESA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR DUCTWORK PLAN - AREA E

DRAWING NUMBER M-101-E

MECHANICAL

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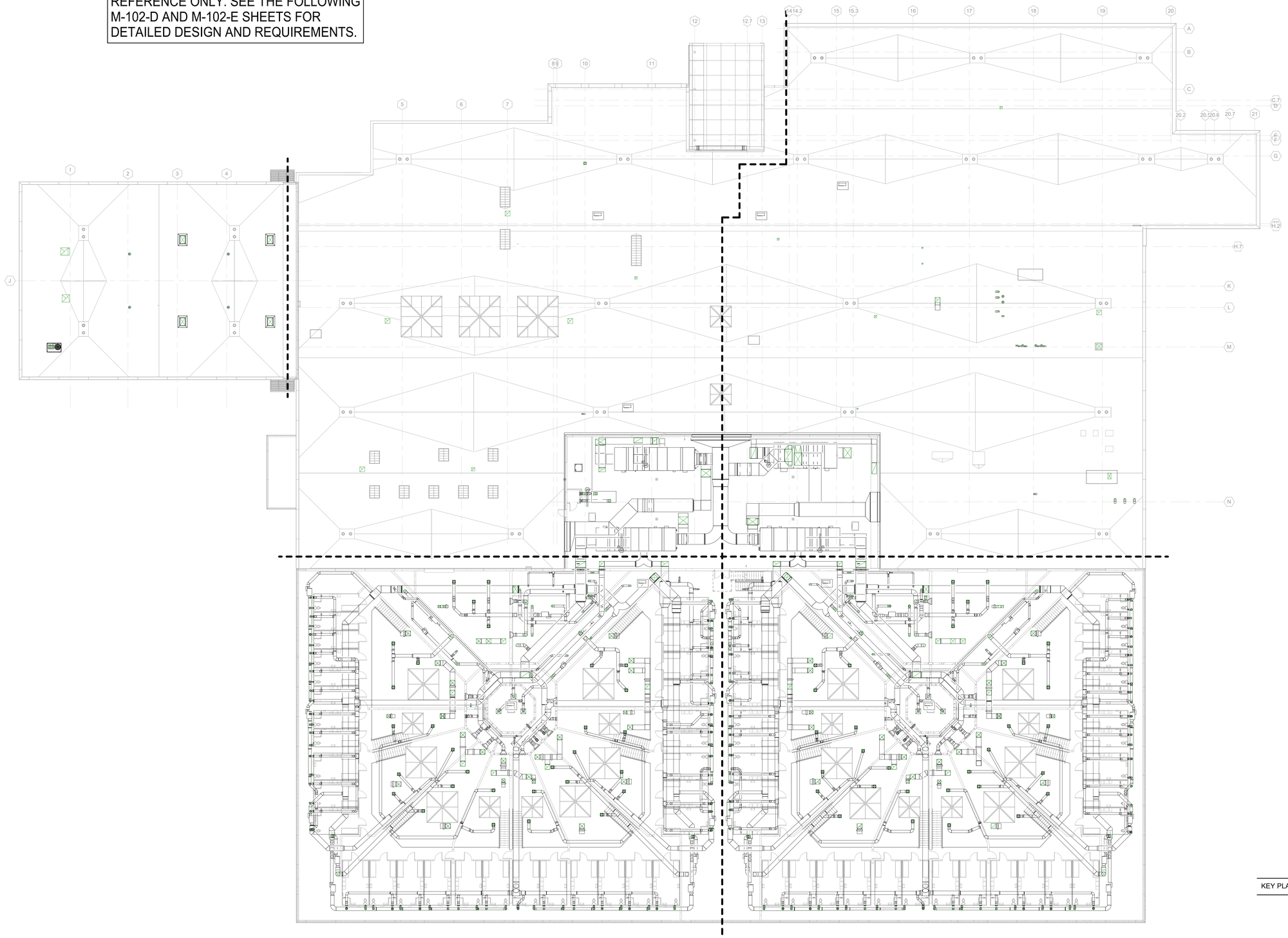
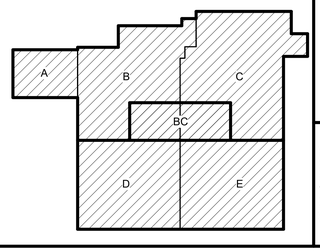
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING M-102-D AND M-102-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



1 M-102 **MEZZANINE DUCTWORK PLAN - OVERALL**
SCALE: 1/16" = 1'-0"

NORTH

KEY PLAN



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JOSHUA R. ARLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE DUCTWORK PLAN - OVERALL

DRAWING NUMBER M-102
MECHANICAL

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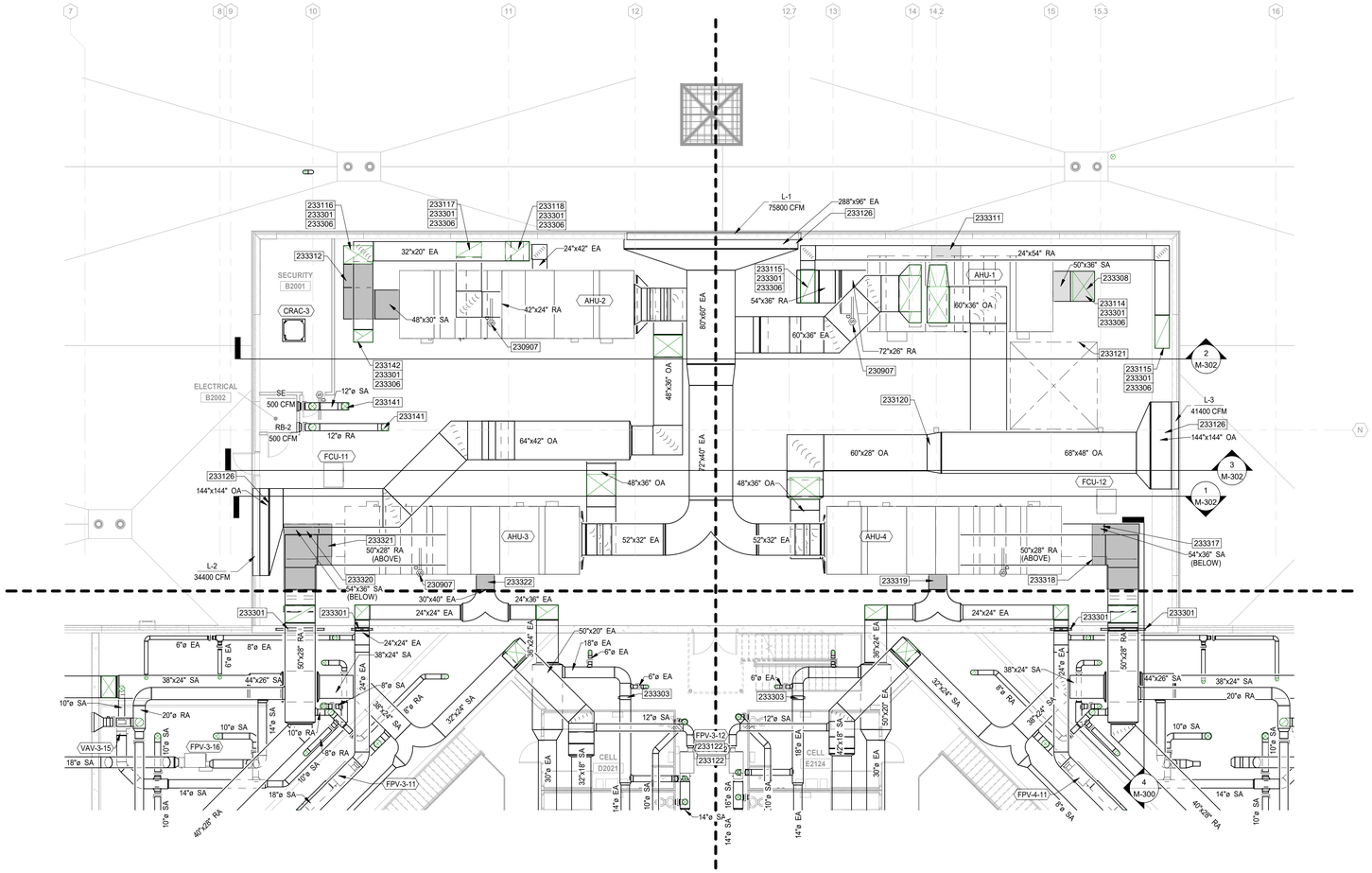

1 M-102-BC MEZZANINE DUCTWORK PLAN - MECHANICAL - AREA B & C
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

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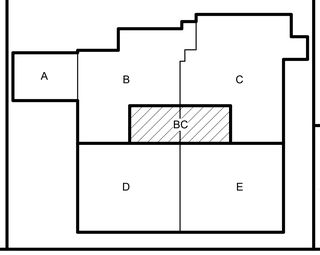
G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230907	PROVIDE RETURN DUCT SMOKE DETECTOR PER DIVISION 28 SPECIFICATIONS.
233114	36x50 SUPPLY AIR DUCT RISER TO BELOW. SEE SHEET M-101-C FOR CONTINUATION.
233115	24x44 RETURN AIR DUCT RISER TO BELOW. SEE SHEET M-101-C FOR CONTINUATION.
233116	48x30 SUPPLY AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233117	42x24 RETURN AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233118	40x16 EXHAUST AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233120	COORDINATE DUCT HEIGHT WITH STORM PIPE.
233121	LINE OF ROOF HATCH AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233122	COORDINATE VAV BOX HEIGHT TO PROVIDE ADEQUATE CLEARANCE OF HOIST RAIL SYSTEM IN THIS AREA.
233126	24" PLENUM IMMEDIATELY BEFORE LOUVER WITH BOTTOM SLOPED TOWARD LOUVER.
233141	12" DUCT RISER TO ABOVE DOAS UNIT ON ROOF.
233142	30x20 EXHAUST AIR DUCT RISER TO BELOW. SEE SHEET M-101-B FOR CONTINUATION.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
233303	SMOKE DAMPER. SEE CONTROL DRAWINGS.
233306	PROVIDE FIRE DAMPER IN DUCT RISER THRU PRECAST CONCRETE FLOOR.
233308	PROVIDE DUCT SILENCER SA-AHU-1 SUPPLY #1 PER SPECIFICATIONS 23 33 00.
233311	PROVIDE DUCT SILENCER RA-AHU-1 RETURN #2 PER SPECIFICATIONS 23 33 00.
233312	PROVIDE DUCT SILENCER SA-AHU-2 SUPPLY #1 PER SPECIFICATIONS 23 33 00.
233317	PROVIDE DUCT SILENCER SA-AHU-3 SUPPLY PER SPECIFICATIONS 23 33 00.
233318	PROVIDE DUCT SILENCER RA-AHU-3 RETURN PER SPECIFICATIONS 23 33 00.
233319	PROVIDE DUCT SILENCER EA-AHU-3 EXHAUST PER SPECIFICATIONS 23 33 00.
233320	PROVIDE DUCT SILENCER SA-AHU-4 SUPPLY PER SPECIFICATIONS 23 33 00.
233321	PROVIDE DUCT SILENCER RA-AHU-4 RETURN PER SPECIFICATIONS 23 33 00.
233322	PROVIDE DUCT SILENCER EA-AHU-4 EXHAUST PER SPECIFICATIONS 23 33 00.

KEY PLAN



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JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: ESA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MECHANICAL MEZZANINE DUCTWORK PLAN - AREA B & C

DRAWING NUMBER M-102-BC
MECHANICAL

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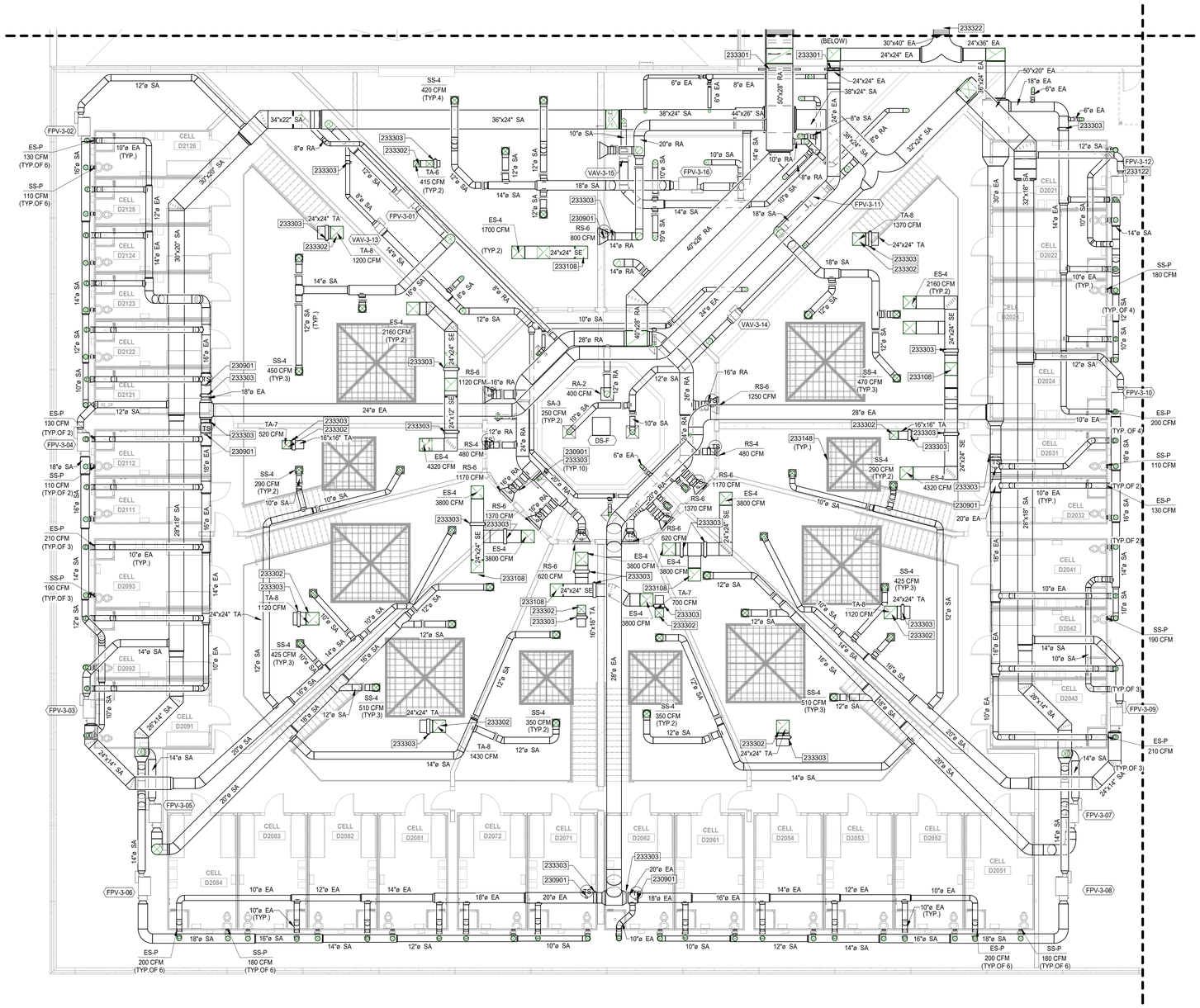


1 M-102-D **MEZZANINE DUCTWORK PLAN - AREA D**
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

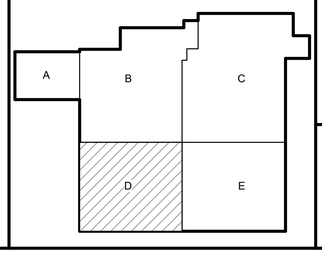
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230901	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR.
233108	24x24 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233122	COORDINATE VAV BOX HEIGHT TO PROVIDE ADEQUATE CLEARANCE OF HOIST RAIL SYSTEM IN THIS AREA.
233148	LINE OF SKYLIGHT AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
233302	TRANSFER AIR DUCT BOOT WITHOUT TURNING VANES. PROVIDE INTERNAL LINING PER SPECIFICATIONS.
233303	SMOKE DAMPER. SEE CONTROL DRAWINGS.
233322	PROVIDE DUCT SILENCER EA-AHU-4 EXHAUST PER SPECIFICATIONS 23 33 00.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10040214 STATE OF INDIANA PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE DUCTWORK PLAN - AREA D

DRAWING NUMBER M-102-D
MECHANICAL

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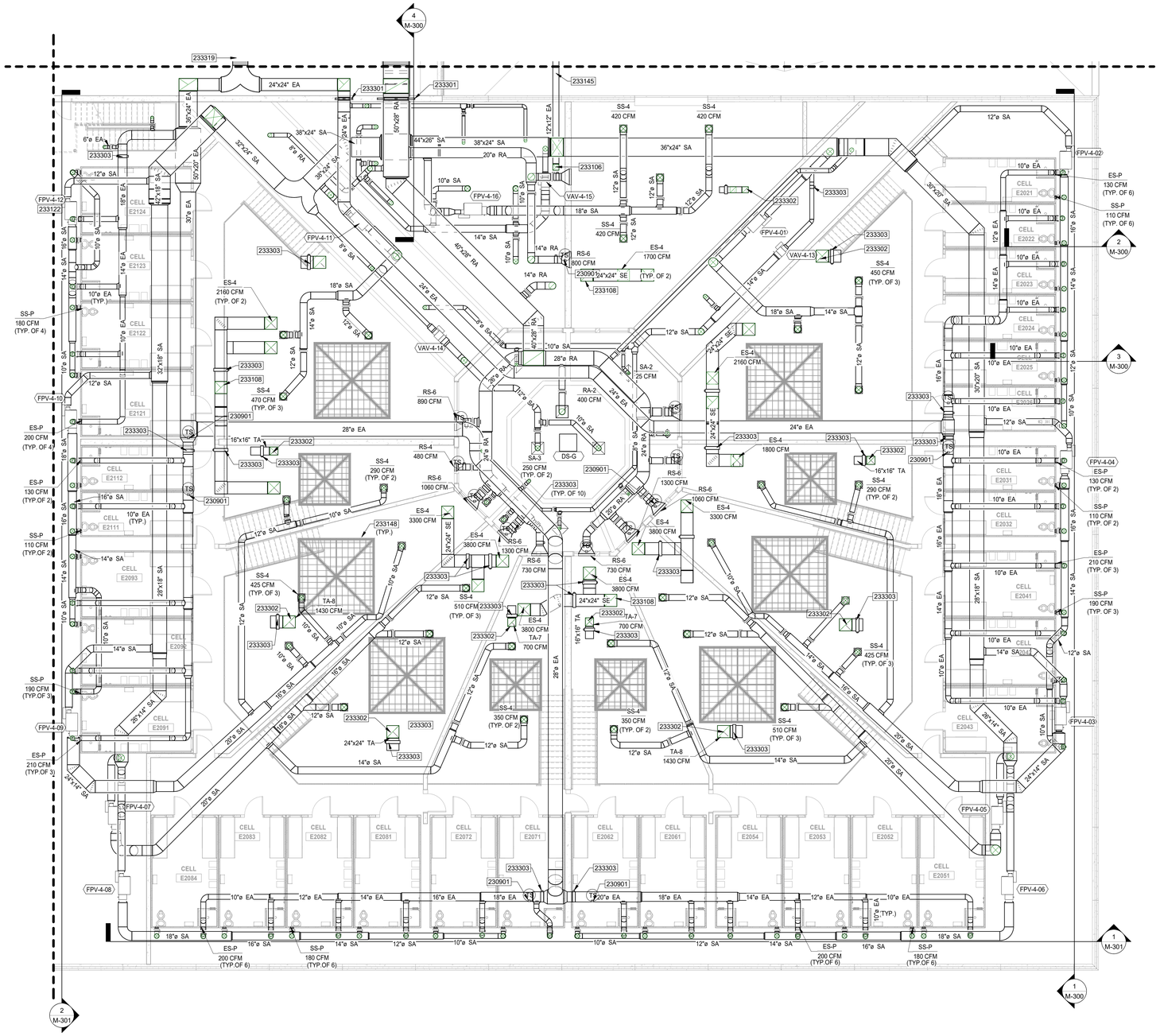

1 M-102-E **MEZZANINE DUCTWORK PLAN - AREA E**
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

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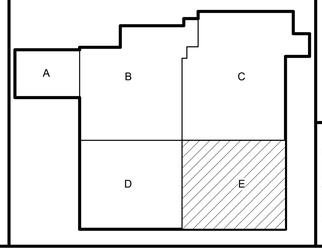
HVAC KEYNOTES

230901	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR.
233106	12x12 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233108	24x24 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN.
233122	COORDINATE VAV BOX HEIGHT TO PROVIDE ADEQUATE CLEARANCE OF HOIST RAIL SYSTEM IN THIS AREA.
233145	EXHAUST DUCT FROM TRASH ROOM.
233148	LINE OF SKYLIGHT AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233301	PROVIDE SECURITY BARS. SEE SPECIFICATION 23 33 00.
233302	TRANSFER AIR DUCT BOOT WITHOUT TURNING VANES. PROVIDE INTERNAL LINING PER SPECIFICATIONS.
233303	SMOKE DAMPER. SEE CONTROL DRAWINGS.
233319	PROVIDE DUCT SILENCER EA-AHU-3 EXHAUST PER SPECIFICATIONS 23 33 00.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 19940214
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE DUCTWORK PLAN -AREA E

DRAWING NUMBER
M-102-E
MECHANICAL

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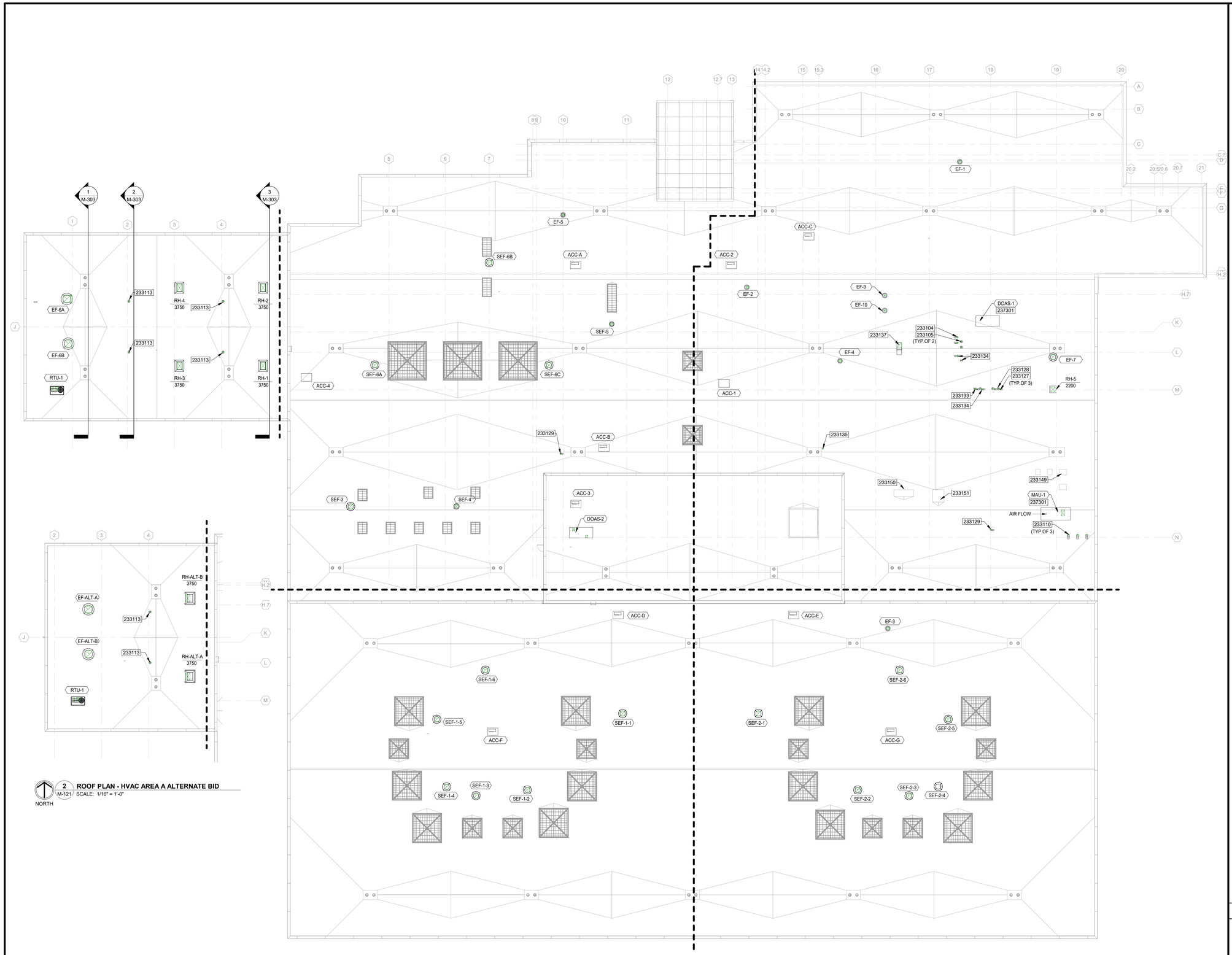

2 M-121 ROOF PLAN - HVAC AREA A ALTERNATE BID
SCALE: 1/16" = 1'-0"

NORTH

1 M-121 ROOF PLAN - HVAC
SCALE: 1/16" = 1'-0"

NORTH

MECHANICAL NOTES

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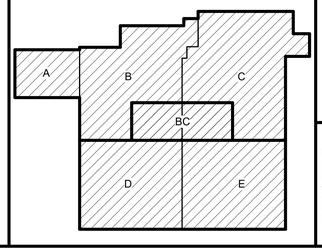
HVAC KEYNOTES

233104	8" BOILER INTAKE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK.
233105	8" BOILER EXHAUST FLUE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233110	10" DRYER EXHAUST VENT THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK AND BIRDSCREEN.
233113	CONCENTRIC VENT SERVING INFRARED HEATERS.
233127	6" WATER HEATER INTAKE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK AND BIRD SCREEN.
233128	6" WATER HEATER EXHAUST FLUE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233129	4" DRYER EXHAUST UP THRU ROOF. PROVIDE BOOSTER FAN. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233133	PROVIDE INTAKE / EXHAUST FLUE CURBS SEALED TIGHTLY FOR FUTURE WATER HEATER. REFERENCE ARCHITECUTRAL DRAWING A-122.
233134	PROVIDE INTAKE / EXHAUST FLUE CURBS SEALED TIGHTLY FOR FURTER BOILER. REFERNCE ARCHITECUTRAL DRAWINGS.
233135	8" EXHAUST DUCT SERVING WELDER IN FACILITY WORKSHOP. PROVIDE VENT CAP.
233137	DUCT RISER SERVING FUME HOOD UP THRU ROOF. PROVIDE BACKDRAFT DAMPER, GOOSE NECK TERMINATION, AND BIRD SCREEN.
233149	COMPRESSORS SERVING KITCHEN COOLER AND FREEZER. REFER TO KITCHEN DRAWINGS.
233150	EXHAUST HOOD. REFER TO KITCHEN DRAWINGS.
233151	MAKE-UP AIR UNIT. REFER TO KITCHEN DRAWINGS.
237301	OUTSIDE AIR INTAKE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST OUTLET.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
ROOF PLAN - HVAC

DRAWING NUMBER M-121
MECHANICAL

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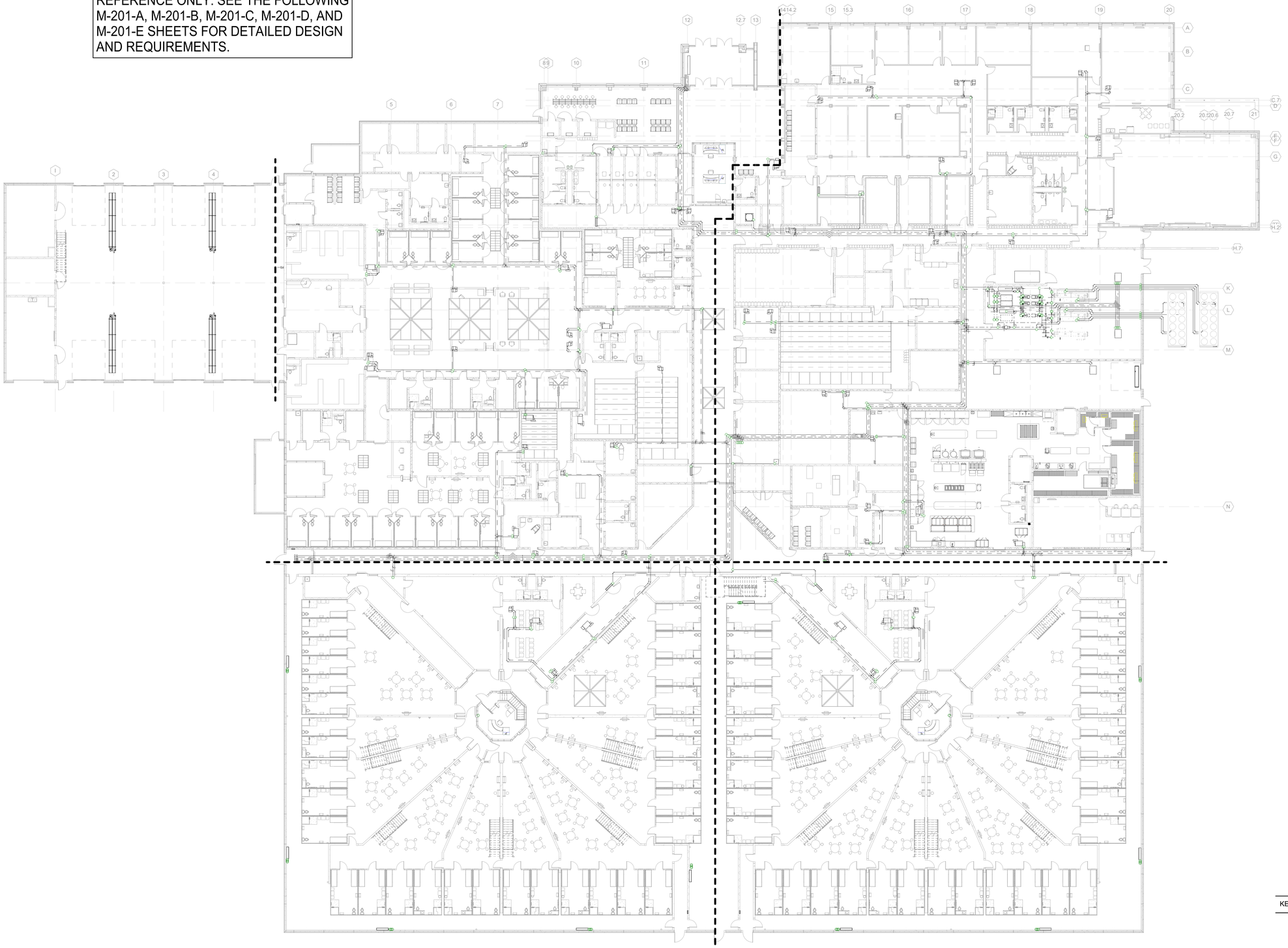
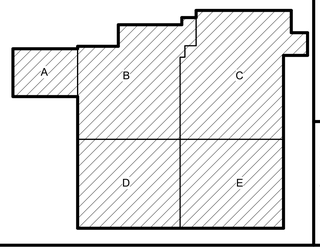
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING M-201-A, M-201-B, M-201-C, M-201-D, AND M-201-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



1 M-201 FIRST FLOOR HYDRONIC PLAN - OVERALL
SCALE: 1/16" = 1'-0"
NORTH

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DVB CHK'D: JRA
DESIGNED: DVB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
FIRST FLOOR HYDRONIC PLAN - OVERALL

DRAWING NUMBER M-201
MECHANICAL

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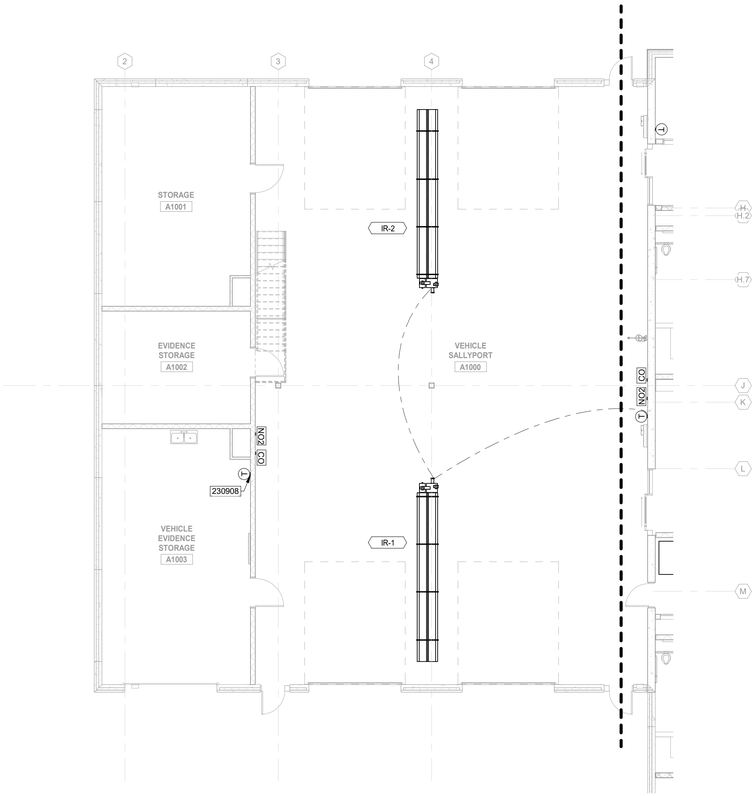
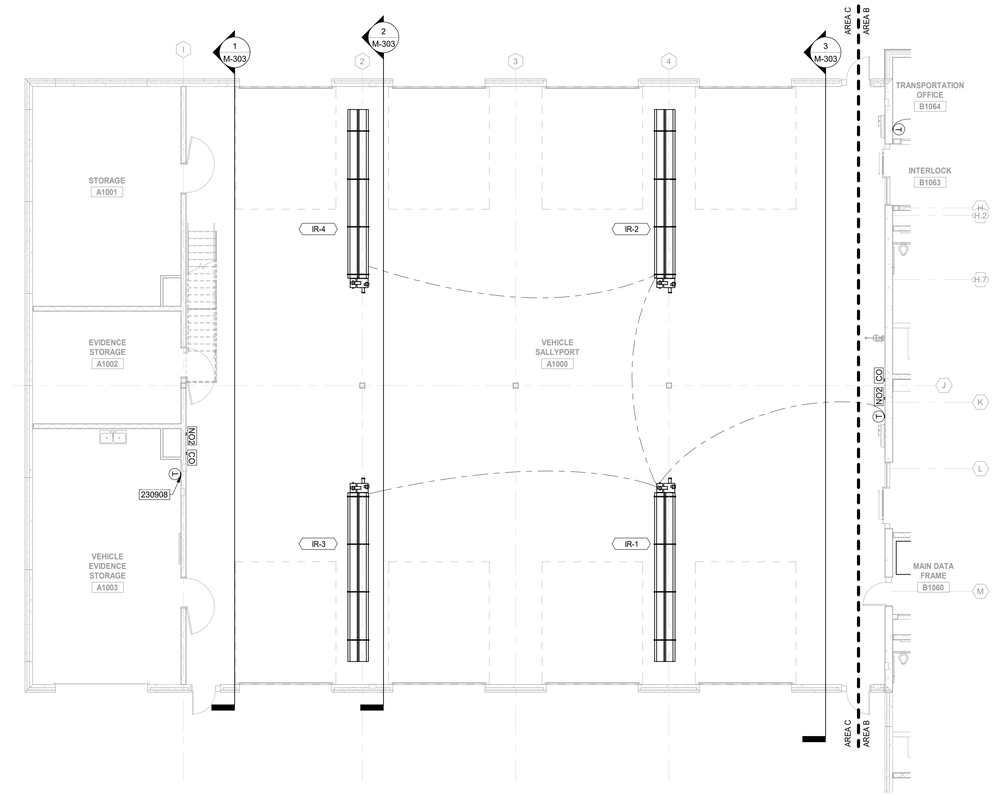


2 ALTERNATE BID - HYDRONIC PLAN - AREA A
M-201-A SCALE: 1/8" = 1'-0"
NORTH



1 BASE BID - HYDRONIC PLAN - AREA A
M-201-A SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

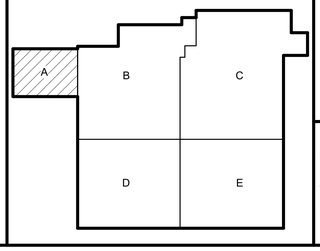
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230908 THERMOSTAT SERVING ROOF TOP UNIT.

KEY PLAN



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NO.	REVISION	DATE

DRAWN: DVB CHK'D: ESA
DESIGNED: DVB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

HYDRONIC FLOOR PLANS - AREA A

DRAWING NUMBER M-201-A

MECHANICAL

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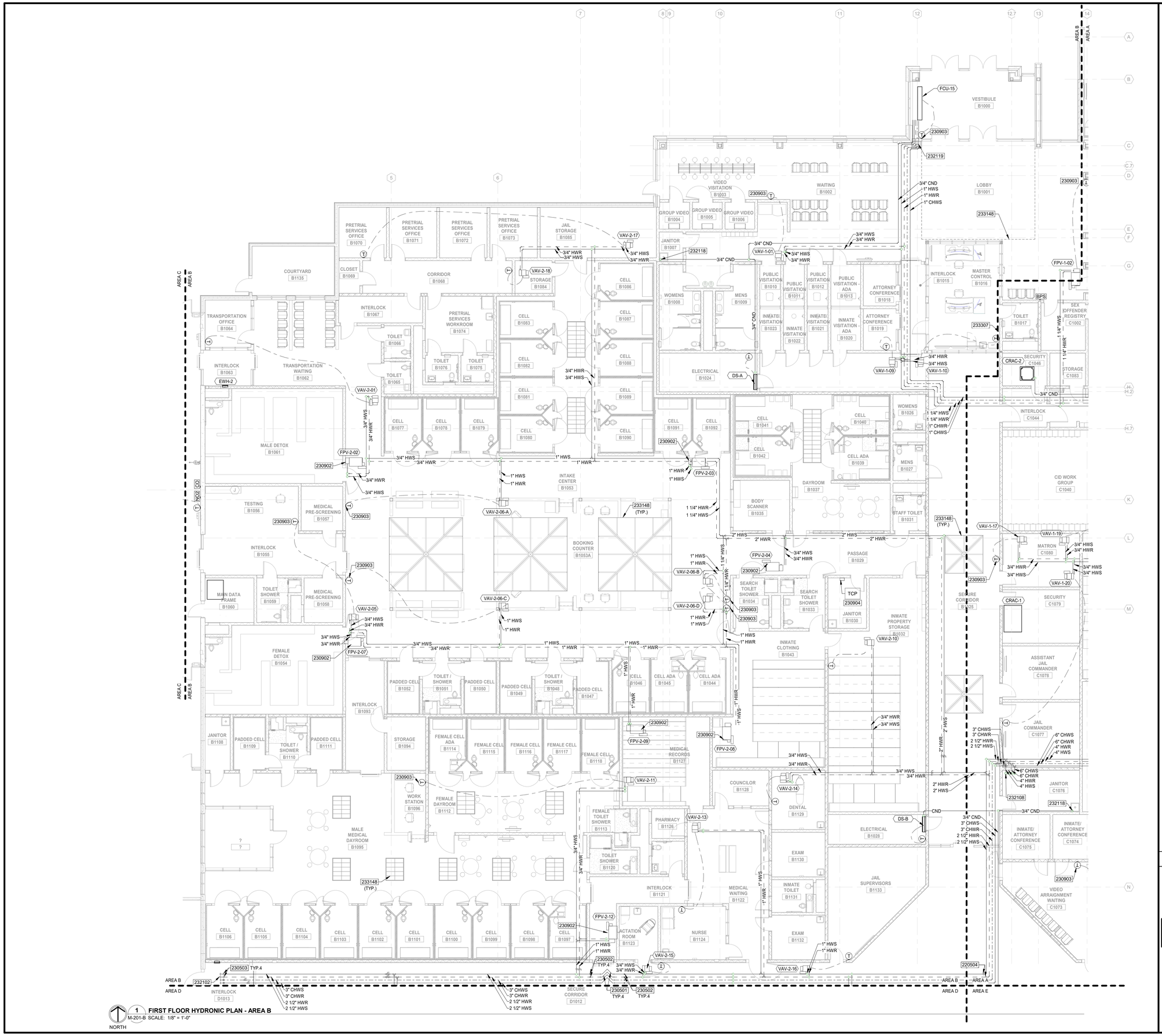


1 FIRST FLOOR HYDRONIC PLAN - AREA B
M-201-B SCALE: 1/8" = 1'-0"

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

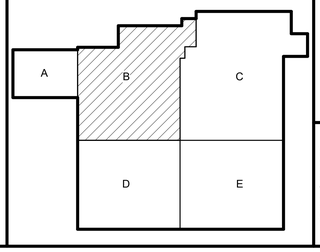
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230501	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230502	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230503	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
230902	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR. REFER TO DUCTWORK PLANS FOR LOCATION.
230903	PROVIDE LOCKABLE COVER.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
232102	CAP HWS, HWR, CHWS, CHWR PIPES FOR FUTURE EXPANSION.
232108	SEE SHEET M202-AB FOR HWS, HWR, CHWS, CHWR PIPE CONTINUATION.
232118	CONDENSATE LINE DOWN TO MOP BASIN.
232119	COORDINATE PIPE ROUTING AROUND STRUCTURAL MEMBERS.
233148	LINE OF SKYLIGHT AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233307	FIRE SMOKE CONTROL STATION (FSCS) LOCATION.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR HYDRONIC PLAN - AREA B

DRAWING NUMBER M-201-B

MECHANICAL

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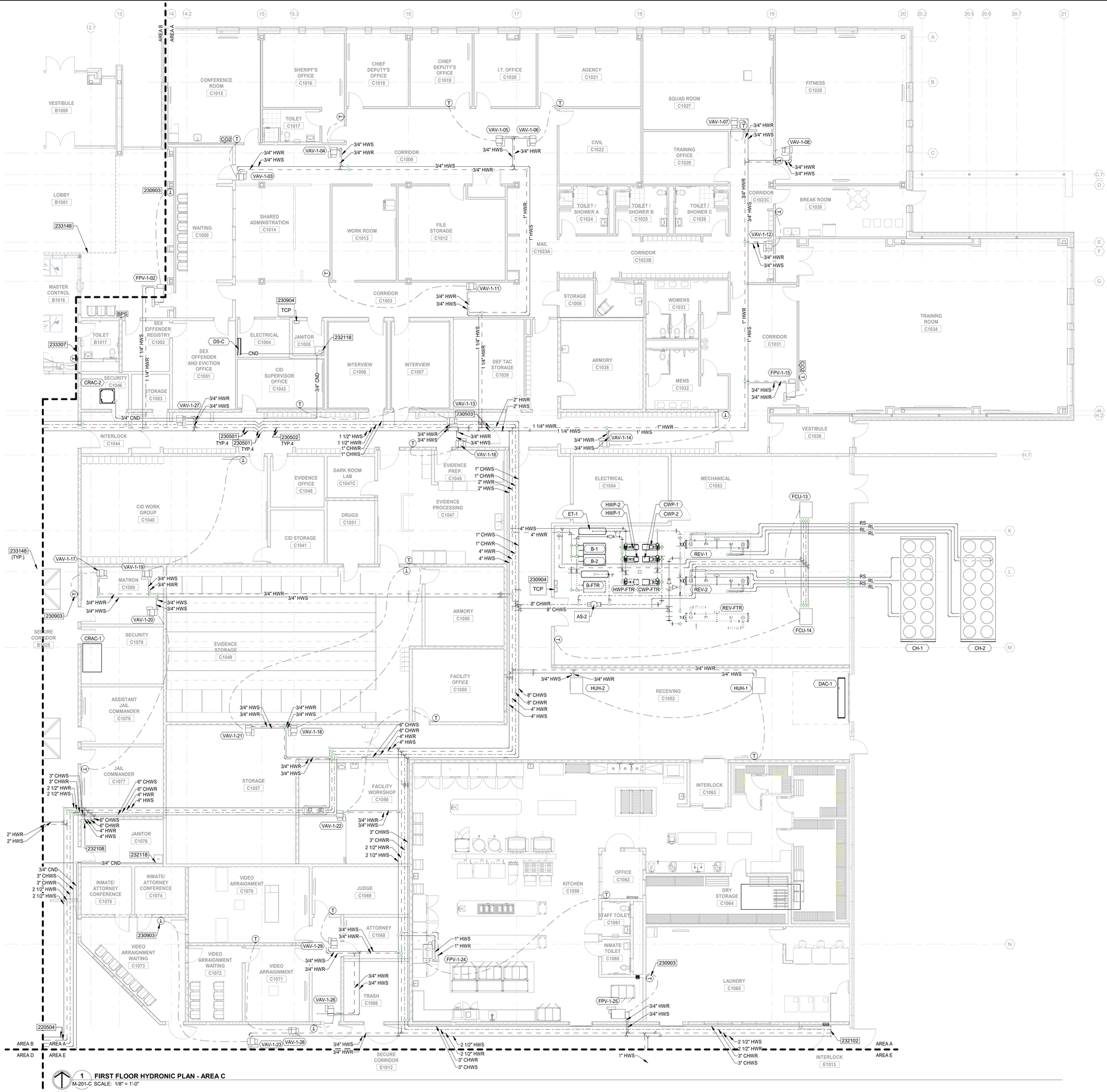


1 FIRST FLOOR HYDRONIC PLAN - AREA C
M-201-C SCALE: 1/8" = 1'-0"

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

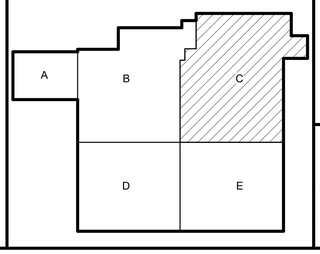
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230501	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230502	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230503	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
230903	PROVIDE LOCKABLE COVER.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
232102	CAP HWS, HWR, CHWS, CHWR PIPES FOR FUTURE EXPANSION.
232108	SEE SHEET M202-AB FOR HWS, HWR, CHWS, CHWR PIPE CONTINUATION.
232118	CONDENSATE LINE DOWN TO MOP BASIN.
233148	LINE OF SKYLIGHT AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.
233307	FIRE SMOKE CONTROL STATION (FSCS) LOCATION.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR HYDRONIC PLAN - AREA C

DRAWING NUMBER M-201-C
MECHANICAL

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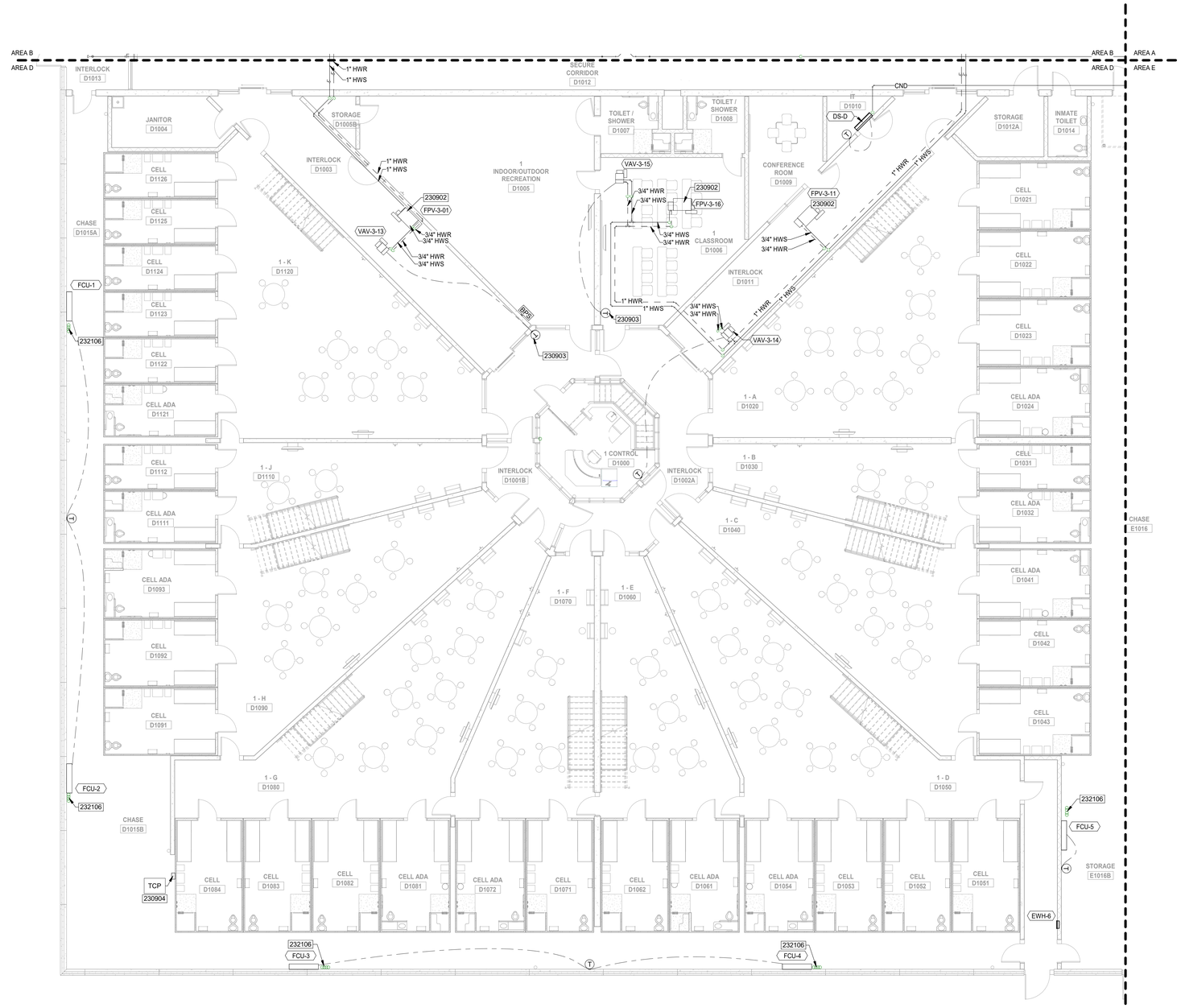

1 FIRST FLOOR HYDRONIC PLAN - AREA D
M-201-D SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

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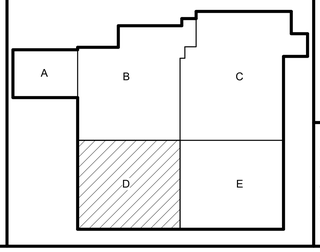
G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230902	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR. REFER TO DUCTWORK PLANS FOR LOCATION.
230903	PROVIDE LOCKABLE COVER.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
232106	3/4" HWS, HWR, CHWS, CHWR PIPES FROM ABOVE SERVING FCU. SEE SHEET M-202-D FOR CONTINUATION.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DWB CHKD: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR HYDRONIC PLAN - AREA D

DRAWING NUMBER M-201-D

MECHANICAL

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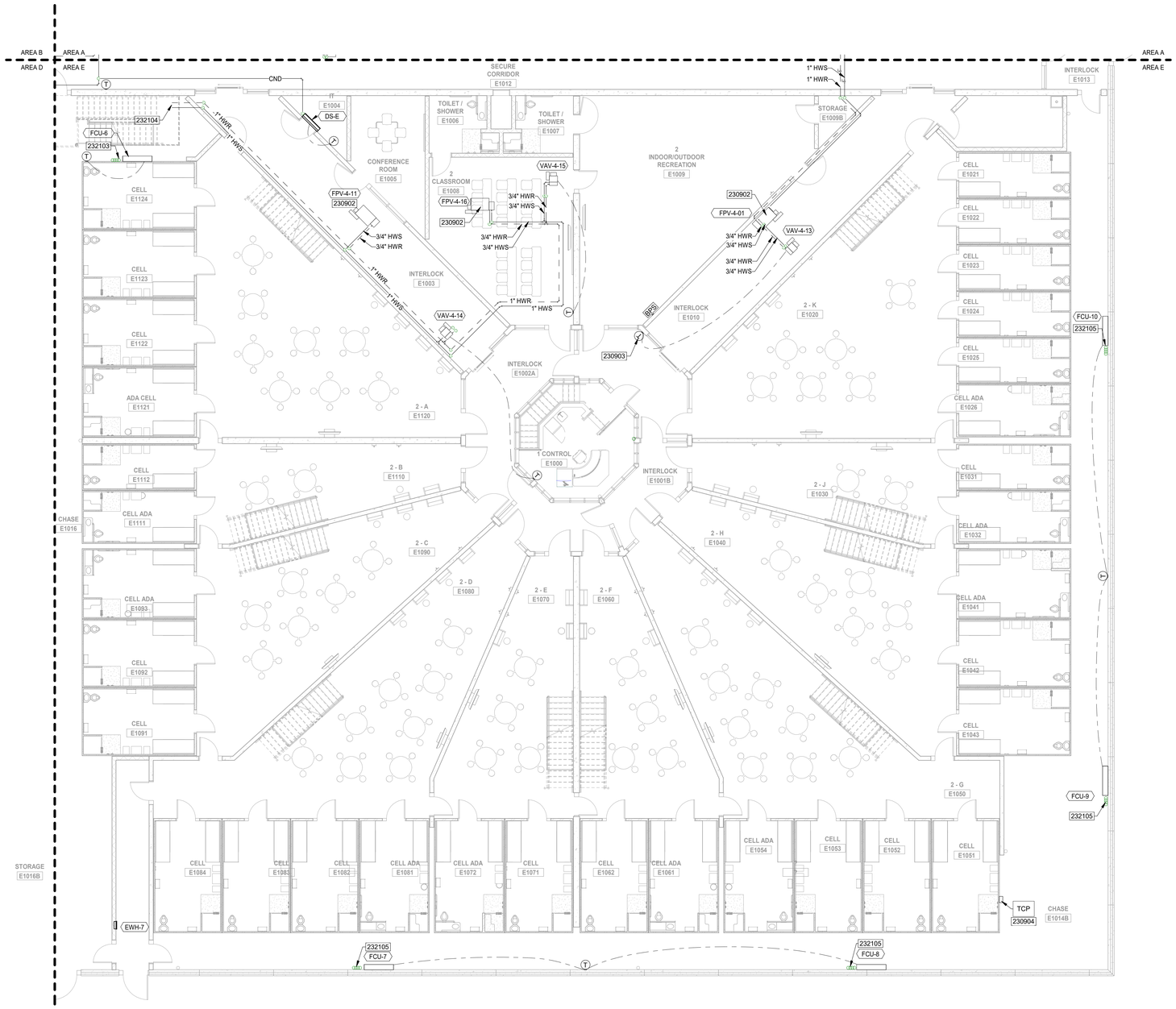

1 FIRST FLOOR HYDRONIC PLAN - AREA E
M-201-E SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

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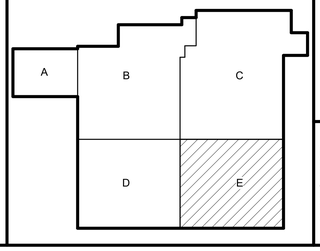
G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230902	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR. REFER TO DUCTWORK PLANS FOR LOCATION.
230903	PROVIDE LOCKABLE COVER.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
232103	3/4" HWS, HWR, CHWS, CHWR PIPES FROM ABOVE SERVING FCU. SEE SHEET M-202-AB FOR CONTINUATION.
232104	SEE SHEET M-202-AB FOR HWS AND HWR PIPE CONTINUATION.
232105	3/4" HWS, HWR, CHWS, CHWR PIPES FROM ABOVE SERVING FCU. SEE SHEET M-202-E FOR CONTINUATION.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
6/25/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

FIRST FLOOR HYDRONIC PLAN - AREA E

DRAWING NUMBER M-201-E

MECHANICAL

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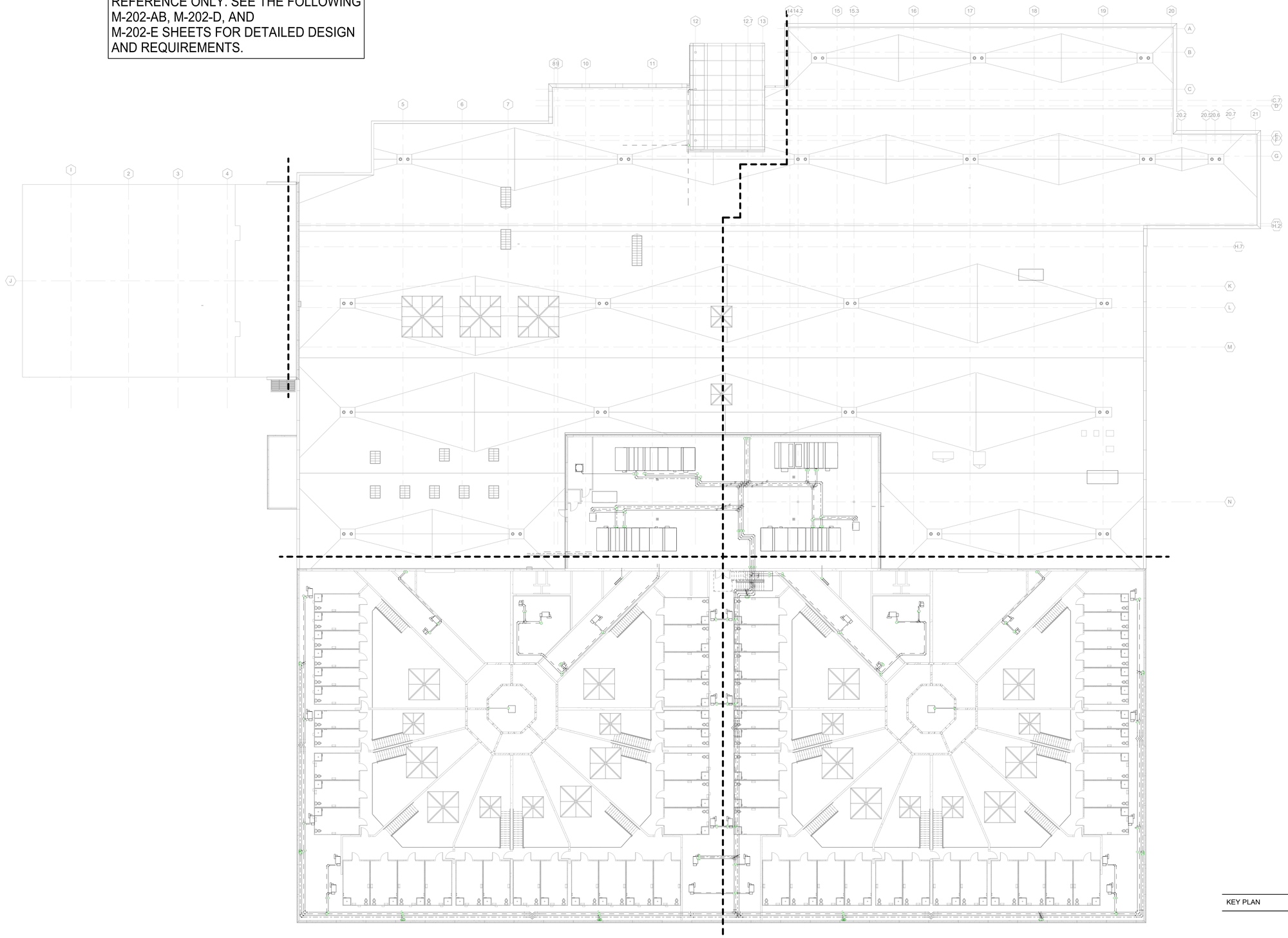
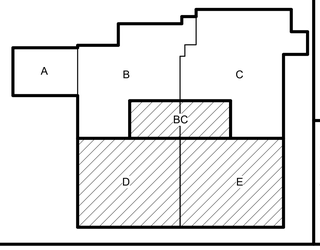
THIS SHEET INCLUDED FOR OVERALL REFERENCE ONLY. SEE THE FOLLOWING M-202-AB, M-202-D, AND M-202-E SHEETS FOR DETAILED DESIGN AND REQUIREMENTS.



1 M-202 **MEZZANINE HYDRONIC PLAN - OVERALL**
SCALE: 1/16" = 1'-0"
NORTH

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DVB CHK'D: JRA
DESIGNED: DVB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MEZZANINE HYDRONIC PLAN - OVERALL

DRAWING NUMBER M-202
MECHANICAL

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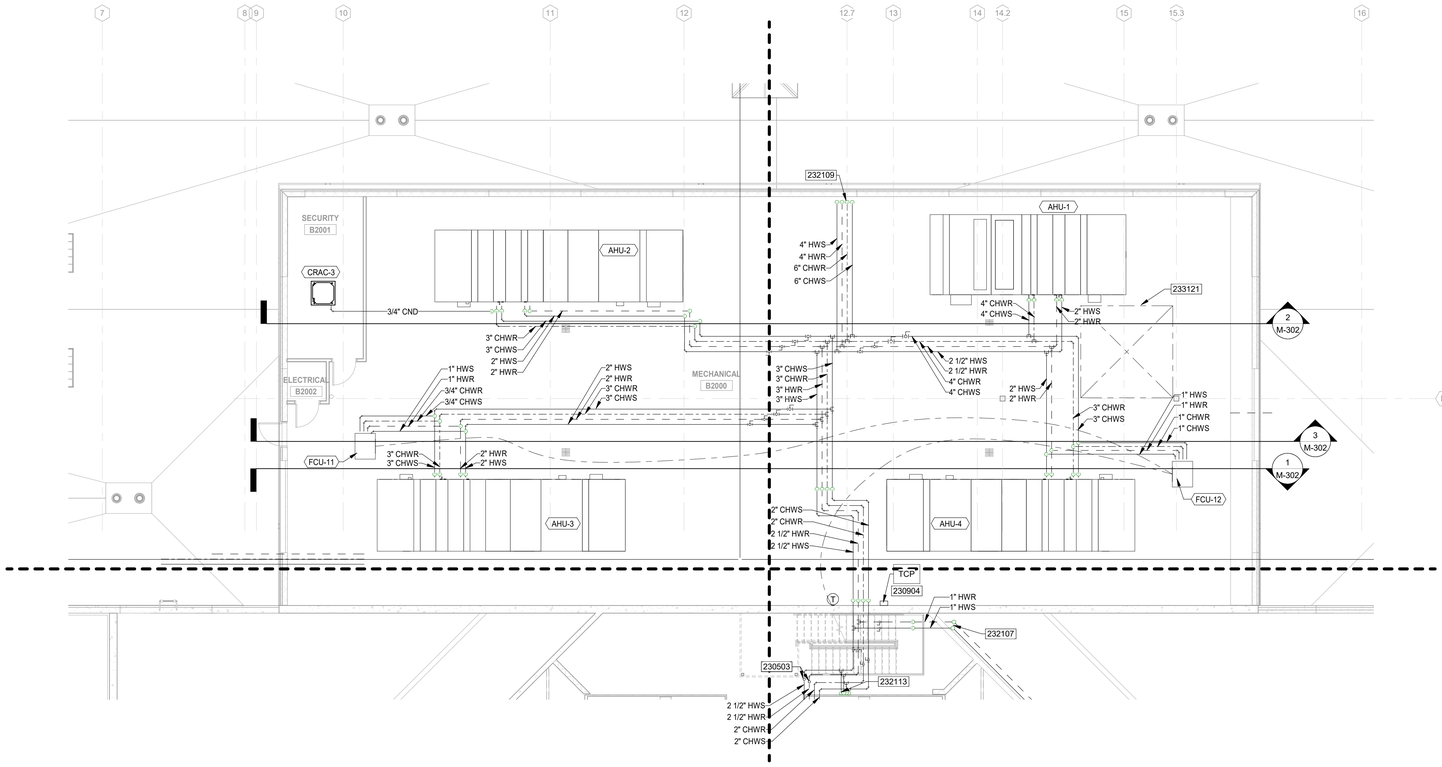


1 M-202-BC **MEZZANINE HYDRONIC PLAN - MECHANICAL - AREA B & C**
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

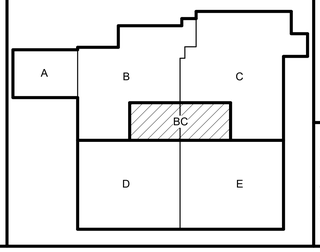
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230503	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
232107	SEE SHEET M-201-E FOR HWS AND HWR PIPE CONTINUATION.
232109	SEE SHEET M201-A FOR HWS, HWR, CHWS, CHWR PIPE CONTINUATION.
232113	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-D FOR CONTINUATION.
233121	LINE OF ROOF HATCH AREA TO BE UNENCUMBERED BY DUCTWORK OR PIPING.

KEY PLAN



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DLZ INDIANA, LLC

9/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: ESA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL MEZZANINE HYDRONIC PLAN - AREA B & C

DRAWING NUMBER M-202-BC

MECHANICAL

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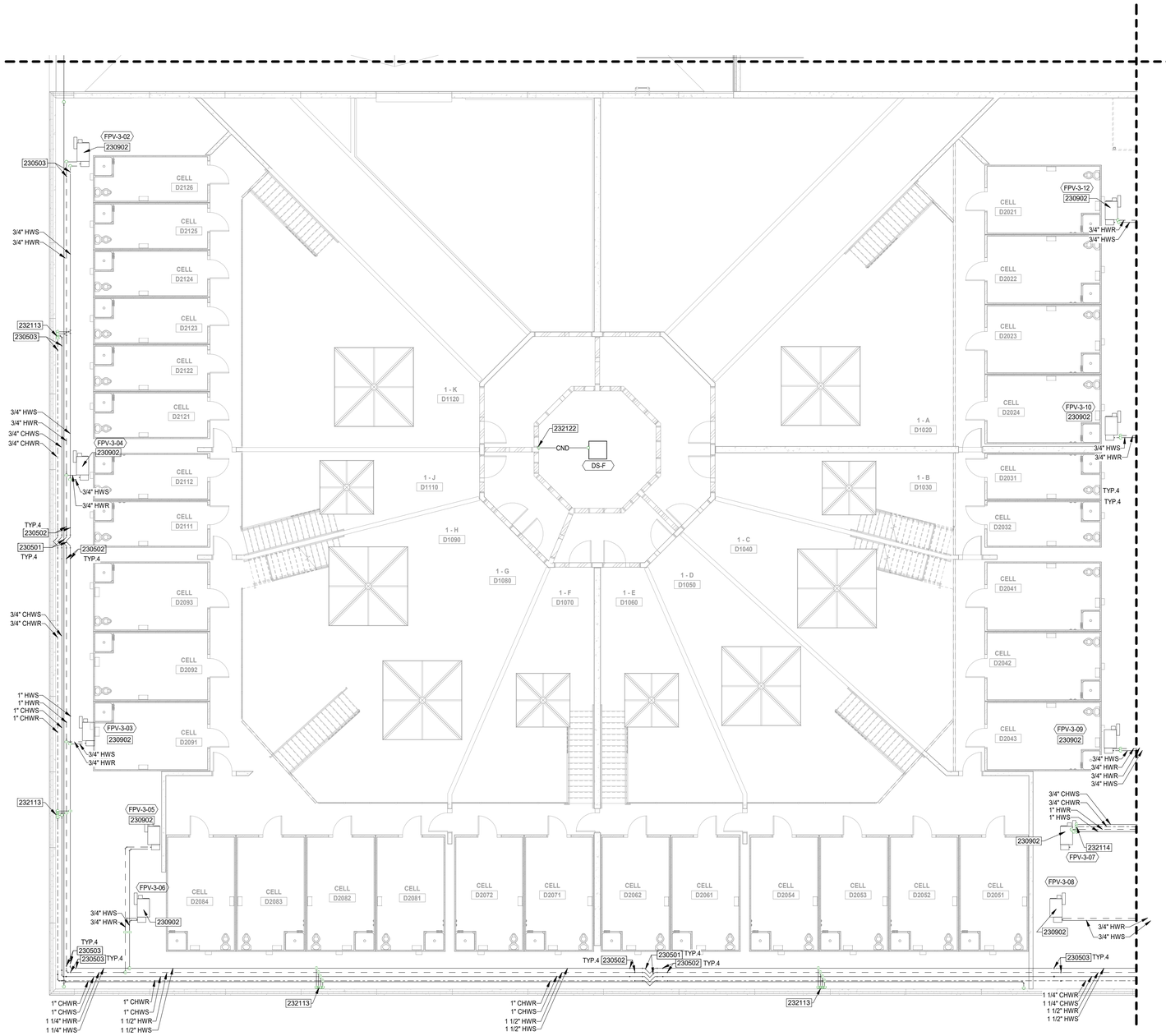

1 M-202-D **MEZZANINE HYDRONIC PLAN - AREA D**
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

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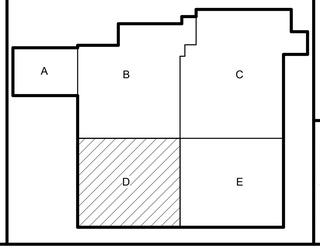
G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230501	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230502	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230503	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
230902	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR. REFER TO DUCTWORK PLANS FOR LOCATION.
232113	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-D FOR CONTINUATION.
232114	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-E FOR CONTINUATION.
232122	CONDENSATE LINE DOWN TO LOWER LEVEL. PIPING TO BE ENCLOSED WITHIN PROVIDED CHASEWAY.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED PE 10100024 STATE OF INDIANA PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DVB CHK'D: JRA
DESIGNED: DVB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE HYDRONIC PLAN - AREA D

DRAWING NUMBER M-202-D
MECHANICAL

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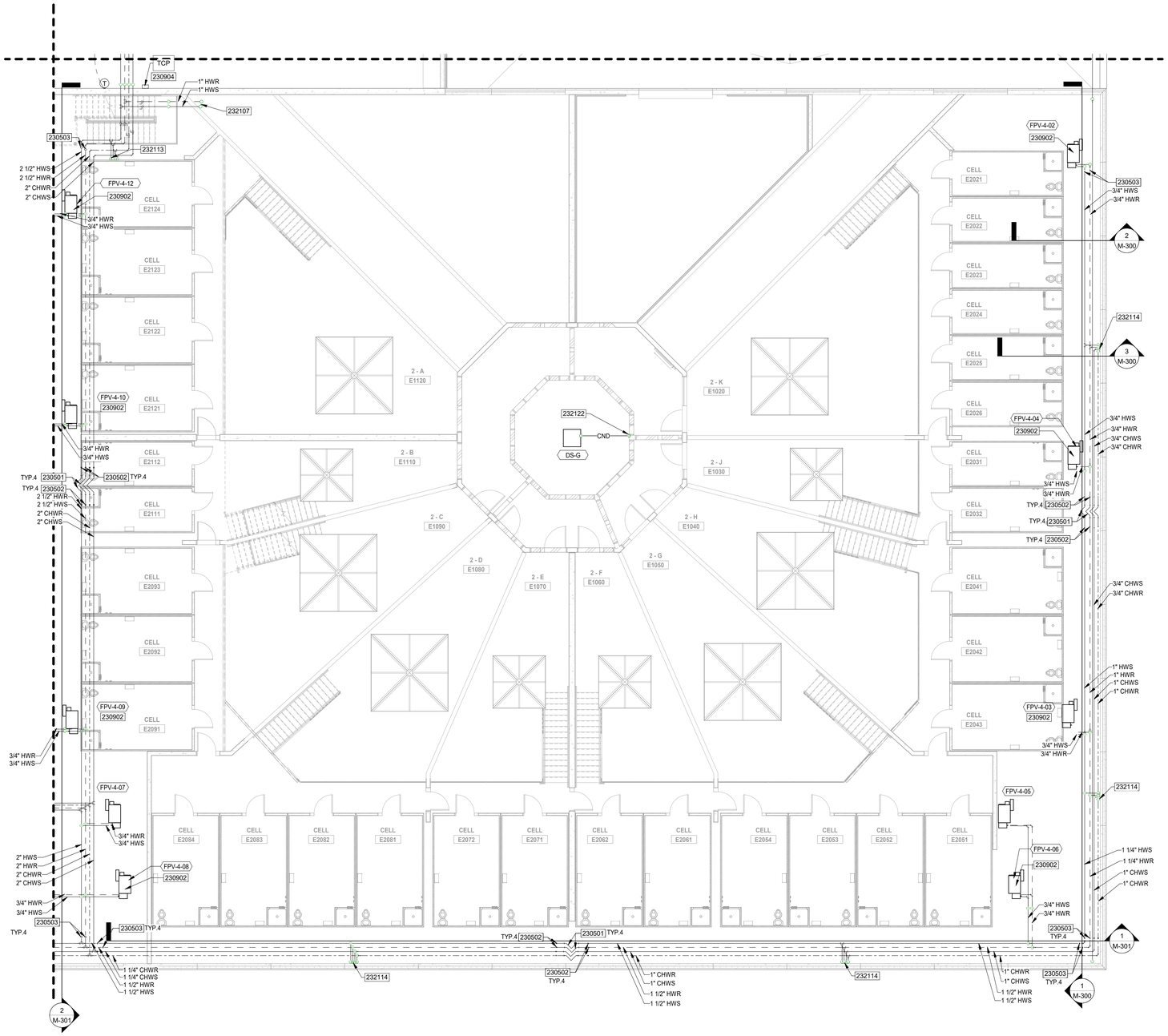


1 M-202-E MEZZANINE HYDRONIC PLAN - AREA E
SCALE: 1/8" = 1'-0"

MECHANICAL NOTES

A. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

B. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.

C. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

D. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

E. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

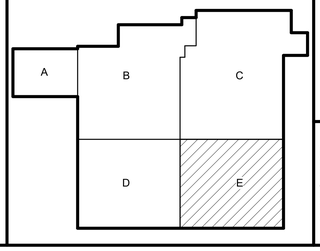
F. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.

G. PROVIDE SECURITY BARS ON ALL DUCTWORK GREATER THAN 8"X8" OR 10" DIA. WHERE PENETRATIONS OF SECURITY WALL TO DECK OR STRUCTURE ABOVE OCCURS. SEE ARCHITECTURAL SECURE WALL PLAN SHEETS A-070 AND A-071 FOR SECURITY WALL LOCATIONS AND TYPE.

HVAC KEYNOTES

230501	PROVIDE EXPANSION V-LOOP IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL GUIDES AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230502	PROVIDE PIPE GUIDE IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND ANCHORS PER MANUFACTURER RECOMMENDATION.
230503	PROVIDE PIPE ANCHOR IN PIPING AT LOCATION INDICATED. REFER TO SPECIFICATION 220516 FOR DELEGATED DESIGN REQUIREMENTS. PROVIDE ALL EXPANSION V-LOOPS AND PIPE GUIDES PER MANUFACTURER RECOMMENDATION.
230902	PROVIDE RETURN / EXHAUST DUCT MOUNTED TEMPERATURE SENSOR. REFER TO DUCTWORK PLANS FOR LOCATION.
230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
232107	SEE SHEET M-201-E FOR HWS AND HWR PIPE CONTINUATION.
232112	SEE SHEET M201-E FOR HWS AND HWR PIPE CONTINUATION.
232113	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-D FOR CONTINUATION.
232114	3/4" HWS, HWR, CHWS, CHWR PIPE TO BELOW SERVING FCU. SEE SHEET M-201-E FOR CONTINUATION.
232122	CONDENSATE LINE DOWN TO LOWER LEVEL. PIPING TO BE ENCLOSED WITHIN PROVIDED CHASEWAY.

KEY PLAN



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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

DRAWN: DWB
CHKD: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MEZZANINE HYDRONIC PLAN - AREA E

DRAWING NUMBER
M-202-E
MECHANICAL

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HVAC KEYNOTES

230904	FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS.
230905	PROVIDE REFRIGERANT MONITOR FOR REFRIGERANT EXHAUST PER IMC SECTION 1105.6.3.2. REFRIGERANT DETECTOR SHALL CONTAIN AN AUDIBLE AND VISUAL ALARM PER IFC SECTION 606.8.
230906	EMERGENCY SHUT-OFF BUTTON, MOUNTED AT 4'-6" PER IFC SECTION 606.
232117	WATER MAKE-UP LINE. CONNECT TO DCW LINE. REFER TO PLUMBING DRAWINGS.
232120	PROVIDE FITTINGS AND ISOLATION VALVE FOR CONNECTION OF FUTURE EQUIPMENT.
232121	REFRIGERANT PIPING SIZE AND CONFIGURATION TO BE PER MANUFACTURER RECOMMENDATIONS. PROVIDE PIPING ALONG GROUND ON EXTERIOR ON PIPE STANDS.
233104	8" BOILER INTAKE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK.

HVAC KEYNOTES

233105	8" BOILER EXHAUST FLUE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233127	6" WATER HEATER INTAKE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE GOOSENECK AND BIRD SCREEN.
233128	6" WATER HEATER EXHAUST FLUE THROUGH ROOF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE VENT CAP. SEE DETAIL 1/M-500.
233131	24x24 EXHAUST DUCT RISER UP TO ROOF MOUNTED REFRIGERANT DETECTION EXHAUST FAN. DUCT OPENING 18" A.F.F.
233132	AIR TERMINAL SERVING DOAS UNIT. COORDINATE LOCATION TO NOT CONFLICT WITH ELECTRICAL EQUIPMENT IN THIS SPACE.
233138	24"x24" DUCT RISER UP TO INTAKE ROOF HOOD. DUCT OPENING 12'-8" A.F.F.

MECHANICAL NOTES

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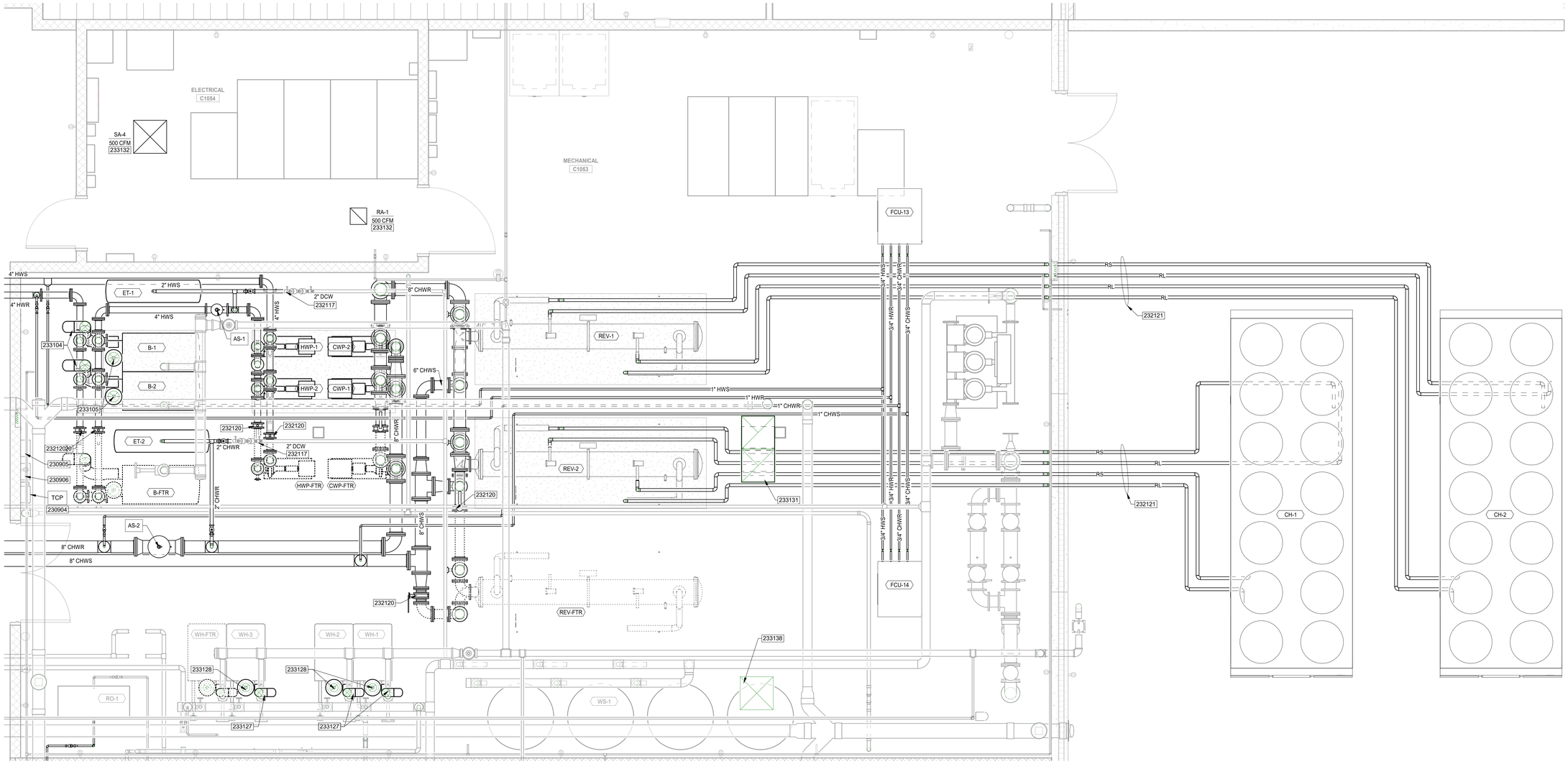

1 M-210 **ENLARGED MECHANICAL ROOM PLAN**
SCALE: 3/8" = 1'-0"
NORTH

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STATE OF INDIANA
PROFESSIONAL ENGINEER
9/5/19

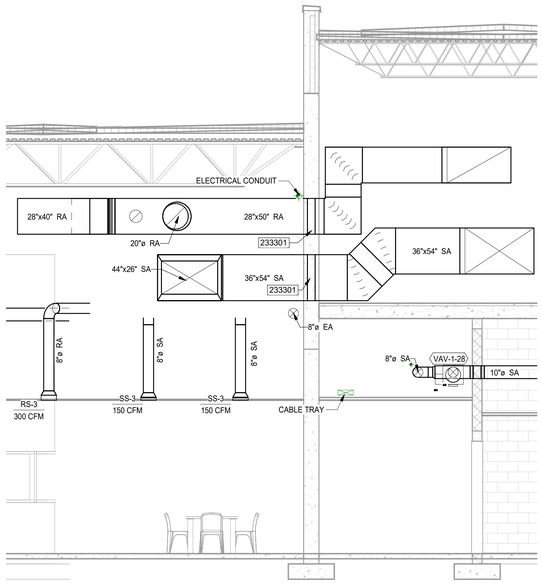
NO.	REVISION	DATE

DRAWN: DWB | CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

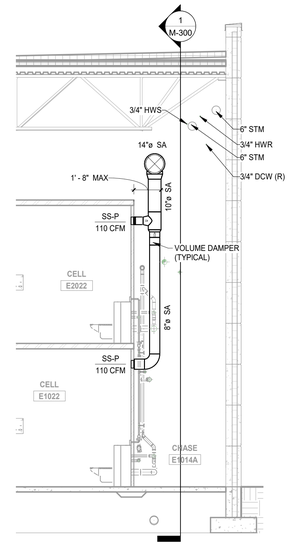
A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

ENLARGED MECHANICAL ROOM PLAN

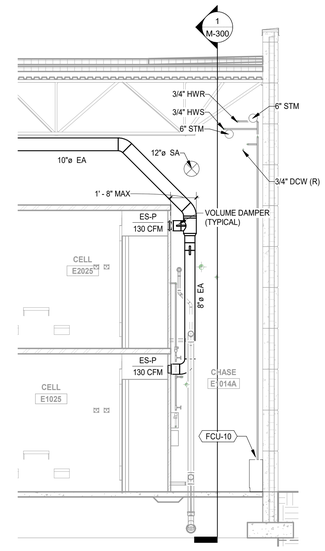
DRAWING NUMBER
M-210
MECHANICAL



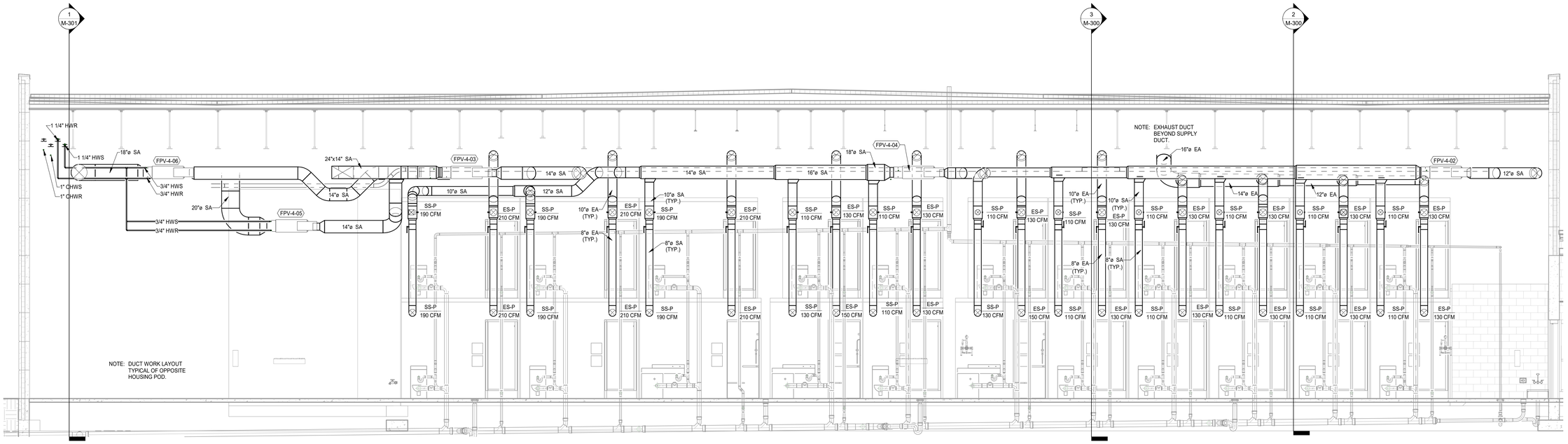
4 M-300 **AHU 3 & 4 SUPPLAY AND RETURN TRANSITION THU PRECAST**
SCALE: 1/4" = 1'-0"



2 M-300 **TYPICAL HOUSING AREA CHASE CLEARANCE - SUPPLY DUCTWORK**
SCALE: 1/4" = 1'-0"



3 M-300 **TYPICAL HOUSING AREA CHASE CLEARANCE - EXHAUST DUCTWORK**
SCALE: 1/4" = 1'-0"



NOTE:
DUCT WORK LAYOUT TYPICAL OF
OPPOSITE HOUSING POD.

1 M-300 **TYPICAL HOUSING AREA CHASE DUCTWORK SECTION 1**
SCALE: 1/4" = 1'-0"

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9/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
HVAC SECTIONS

DRAWING NUMBER
M-300
MECHANICAL

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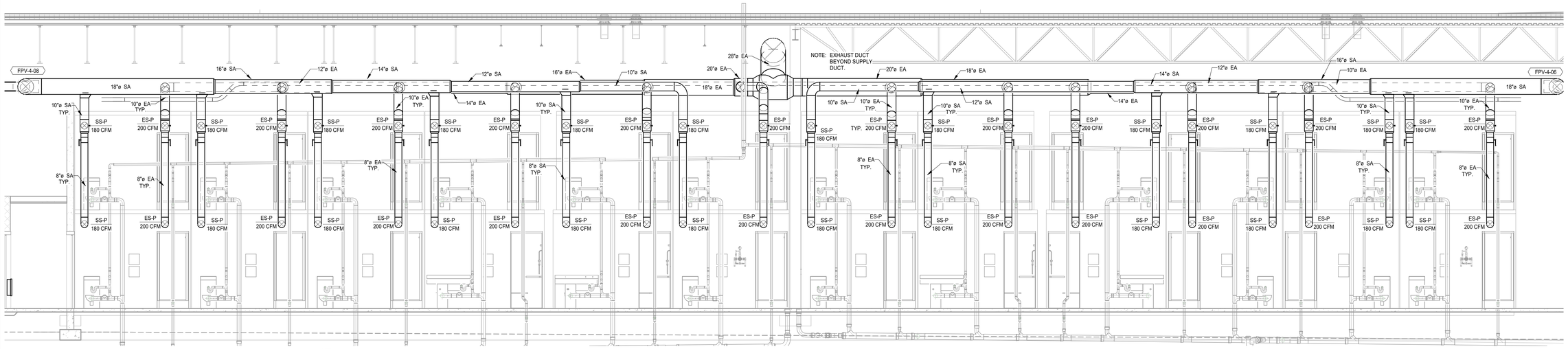
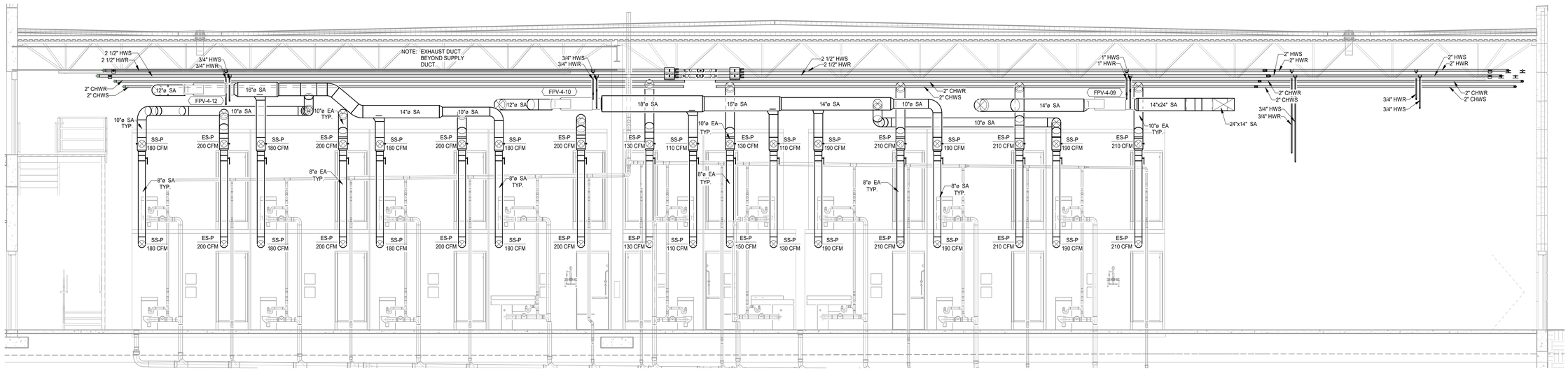


NOTE:
DUCT WORK LAYOUT TYPICAL OF OPPOSITE HOUSING POD.

1 M-301 **TYPICAL HOUSING AREA CHASE DUCTWORK SECTION 2**
SCALE: 1/4" = 1'-0"



NOTE:
DUCT WORK LAYOUT TYPICAL OF OPPOSITE HOUSING POD.

2 M-301 **TYPICAL HOUSING AREA CHASE DUCTWORK SECTION 3**
SCALE: 1/4" = 1'-0"

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9/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: ESA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
HVAC SECTIONS

DRAWING NUMBER
M-301
MECHANICAL

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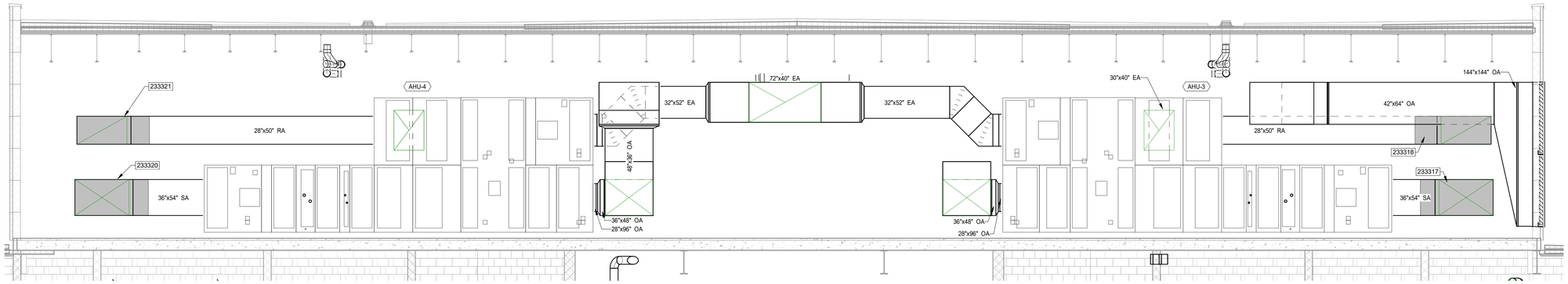
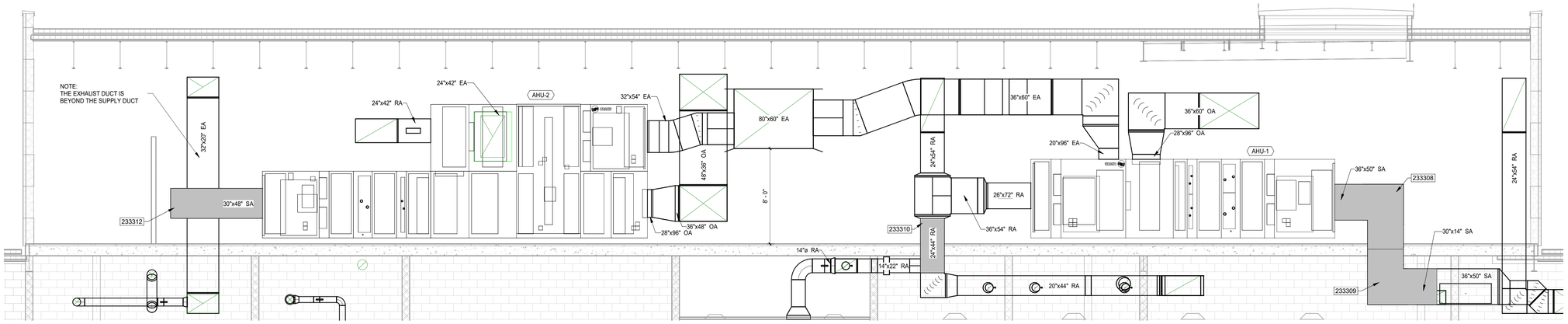
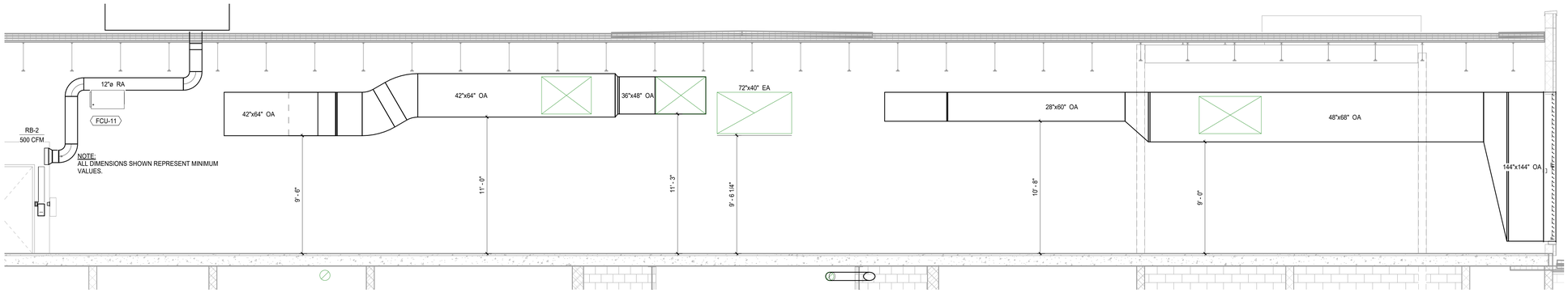


1 M-302 **AHU-3 & 4 DUCTWORK SECTION**
SCALE: 1/4" = 1'-0"



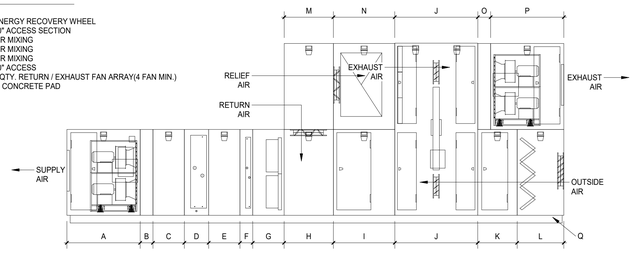
2 M-302 **AHU-1 & 2 DUCTWORK SECTION**
SCALE: 1/4" = 1'-0"



3 M-302 **MECHANICAL MEZZANINE OUTSIDE AIR**
SCALE: 1/4" = 1'-0"

AHU-3 & 4 SECTION LEGEND

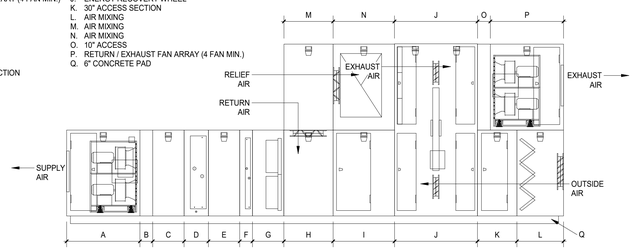
A. SUPPLY FAN ARRAY (4 FAN MIN.)
B. 10" ACCESS
C. 24" ACCESS
D. COOLING COIL
E. 24" ACCESS
F. HEATING COIL
G. FILTER
H. AIR MIXING
I. 48" ACCESS SECTION
J. ENERGY RECOVERY WHEEL
K. 30" ACCESS SECTION
L. AIR MIXING
M. AIR MIXING
N. AIR MIXING
O. 10" ACCESS
P. 1 QTY. RETURN / EXHAUST FAN ARRAY(4 FAN MIN.)
Q. 6" CONCRETE PAD



6 M-302 **SECTION AHU-3 & 4**
SCALE: 1/4" = 1'-0"

AHU-2 SECTION LEGEND

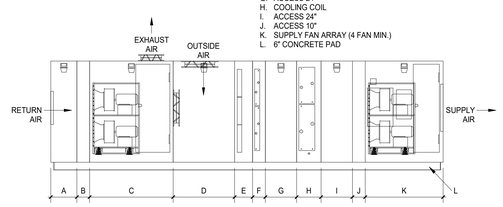
A. SUPPLY FAN ARRAY (4 FAN MIN.)
B. 10" ACCESS
C. 24" ACCESS
D. COOLING COIL
E. 24" ACCESS
F. HEATING COIL
G. FILTER
H. AIR MIXING
I. 48" ACCESS SECTION
J. ENERGY RECOVERY WHEEL
K. 30" ACCESS SECTION
L. AIR MIXING
M. AIR MIXING
N. AIR MIXING
O. 10" ACCESS
P. RETURN / EXHAUST FAN ARRAY (4 FAN MIN.)
Q. 6" CONCRETE PAD



5 M-302 **SECTION AHU-2**
SCALE: 1/4" = 1'-0"

AHU-1 SECTION LEGEND

A. AIR MIXING
B. ACCESS 10"
C. RETURN / EXHAUST FAN ARRAY (4 FAN MIN.)
D. AIR MIXING
E. FILTER
F. HEATING COIL
G. ACCESS 24"
H. COOLING COIL
I. ACCESS 24"
J. ACCESS 10"
K. SUPPLY FAN ARRAY (4 FAN MIN.)
L. 6" CONCRETE PAD



4 M-302 **SECTION AHU-1**
SCALE: 1/4" = 1'-0"

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DLZ INDIANA, LLC

JOSHUA R. APLING
REGISTERED
PE 10100024
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PROFESSIONAL ENGINEER
6/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: ESA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

AIR HANDLING UNIT (AHU) SECTION

DRAWING NUMBER M-302 MECHANICAL

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HVAC KEYNOTES

233308 PROVIDE DUCT SILENCER SA-AHU-1 SUPPLY #1 PER SPECIFICATIONS 23 33 00.

233309 PROVIDE DUCT SILENCER SA-AHU-1 SUPPLY #2 PER SPECIFICATIONS 23 33 00.

233310 PROVIDE DUCT SILENCER RA-AHU-1 RETURN #1 PER SPECIFICATIONS 23 33 00.

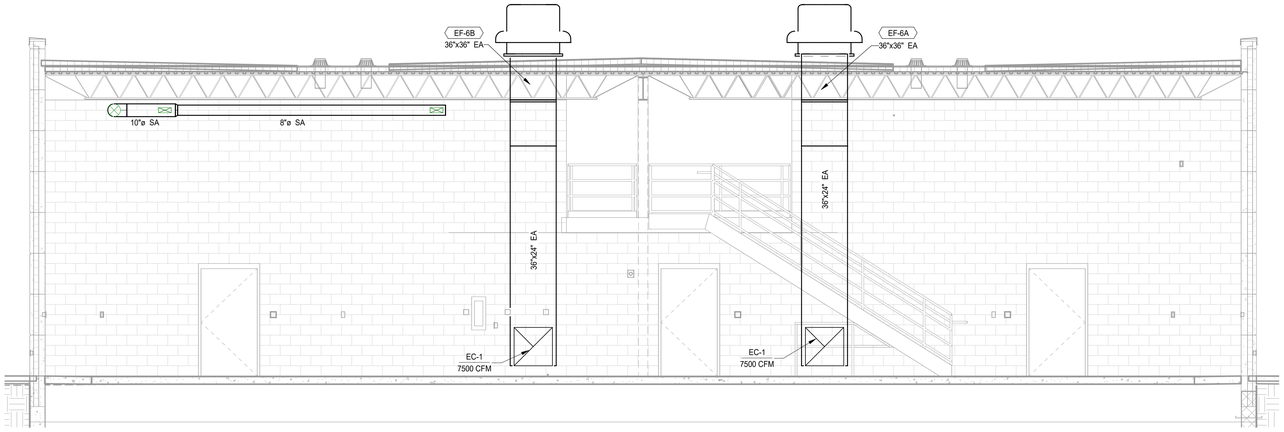
233312 PROVIDE DUCT SILENCER SA-AHU-2 SUPPLY #1 PER SPECIFICATIONS 23 33 00.

233317 PROVIDE DUCT SILENCER SA-AHU-3 SUPPLY PER SPECIFICATIONS 23 33 00.

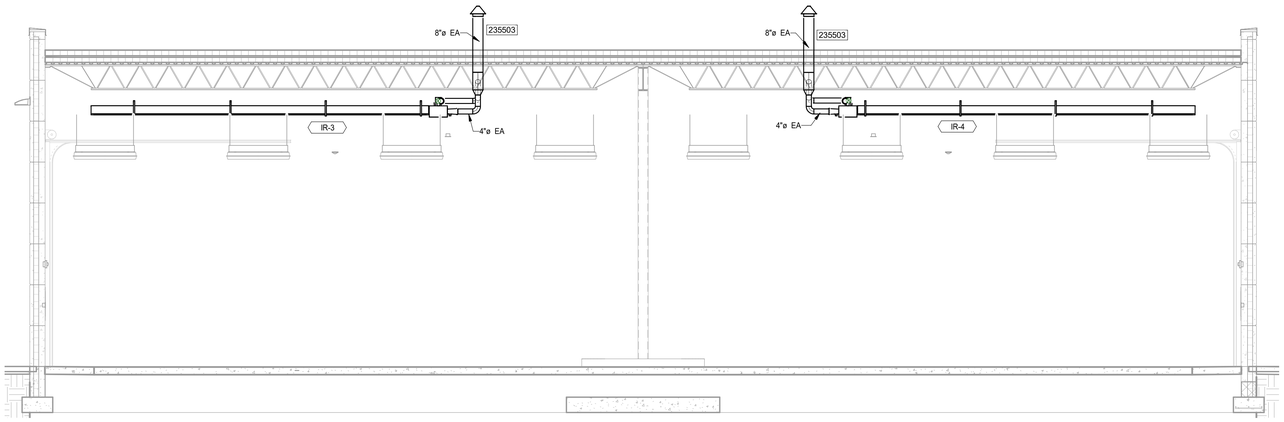
233318 PROVIDE DUCT SILENCER RA-AHU-3 RETURN PER SPECIFICATIONS 23 33 00.

233320 PROVIDE DUCT SILENCER SA-AHU-4 SUPPLY PER SPECIFICATIONS 23 33 00.

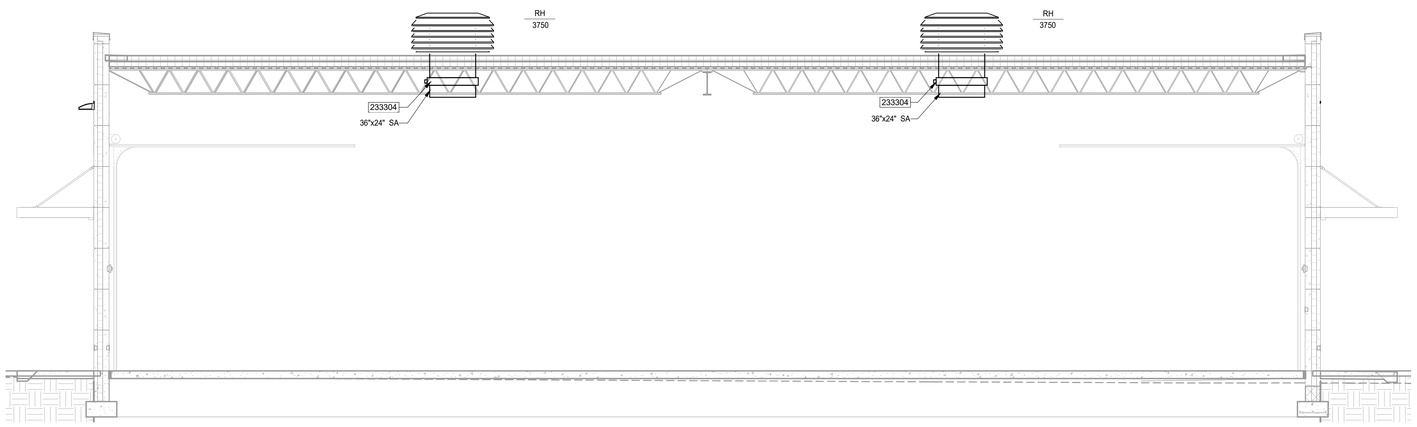
233321 PROVIDE DUCT SILENCER RA-AHU-4 RETURN PER SPECIFICATIONS 23 33 00.



1 M-303 **VEHICLE SALLYPORT EXHAUST FAN SECTION**
SCALE: 1/4" = 1'-0"



2 M-303 **VEHICLE SALLYPORT INFRARED HEATER SECTION**
SCALE: 1/4" = 1'-0"



3 M-303 **VEHICLE SALLYPORT MAKE-UP AIR LOUVER SECTION**
SCALE: 1/4" = 1'-0"

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NOT FOR CONSTRUCTION

NO.	REVISION	DATE

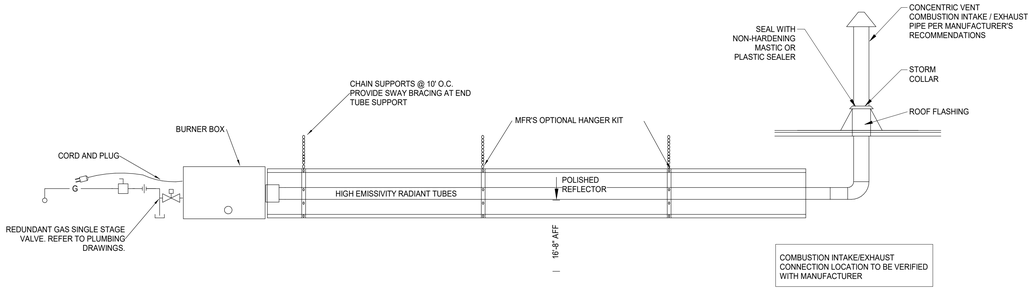
DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

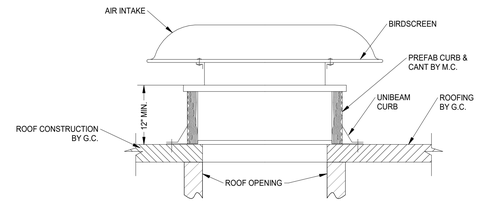
SALLYPORT SECTIONS

DRAWING NUMBER M-303

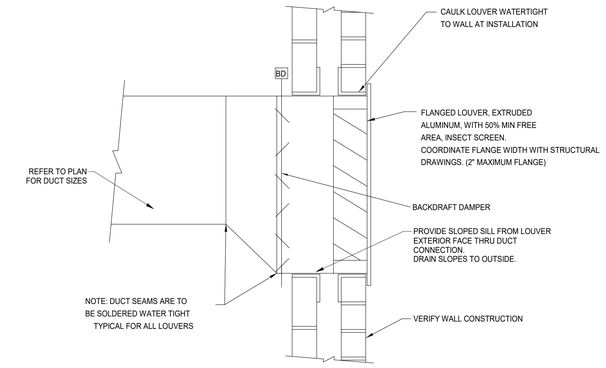
MECHANICAL



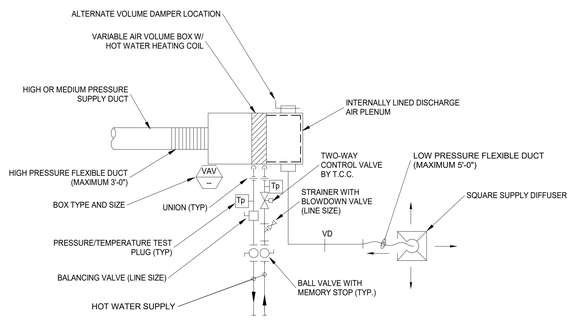
10 M-500 **INFRARED HEATER DETAIL**
SCALE: N.T.S.



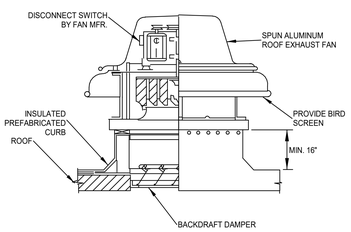
6 M-500 **AIR INTAKE DETAIL**
SCALE: N.T.S.



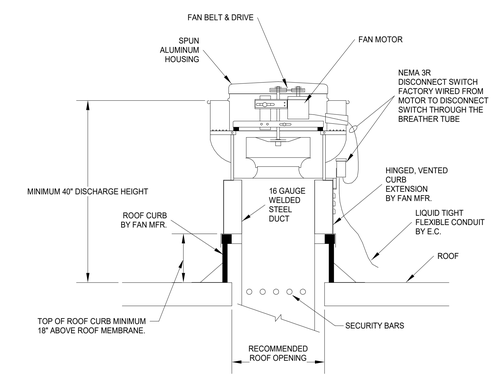
3 M-500 **LOUVER DETAIL**
SCALE: N.T.S.



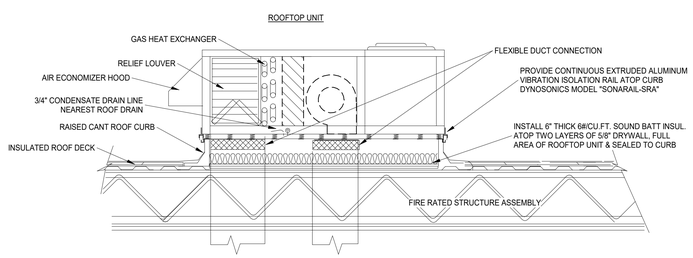
9 M-500 **VARIABLE AIR VOLUME (VAV) BOX DETAIL**
SCALE: N.T.S.



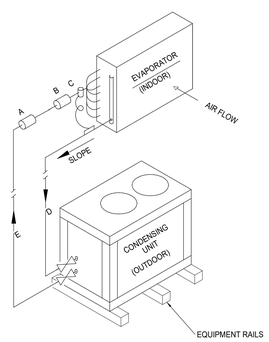
5 M-500 **ROOF MOUNTED EXHAUST FAN DETAIL**
SCALE: N.T.S.



2 M-500 **SMOKE EXHAUST FAN DETAIL - FLAT ROOF**
SCALE: N.T.S.



8 M-500 **ROOFTOP AIR HANDLING UNIT DETAIL**
SCALE: N.T.S.



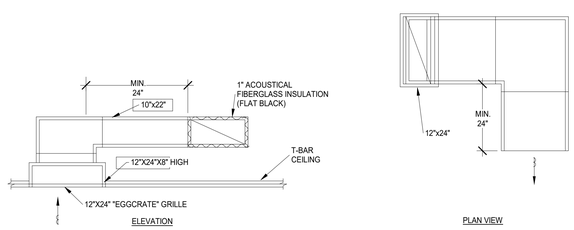
NOTES:

1. ALL PIPING AND PIPING COMPONENTS BY M.C.
2. PITCH ALL HORIZONTAL LINES A MINIMUM OF 1/2" IN 10 FEET IN THE DIRECTION OF REFRIGERANT FLOW.
3. INSULATE ALL SUCTION LINES.
4. UNIT MANUFACTURER SHALL PROVIDE REFRIGERANT PIPING SCHEMATIC INCLUDING ALL LINES AND VALVE SIZES AND EXACT LINE ROUTING.

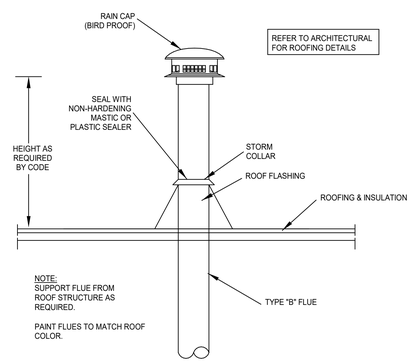
LEGEND:

A. FILTER-DRIER
B. SIGHTGLASS/MOISTURE INDICATOR
C. THERMAL EXP. VALVE
D. SUCTION LINE, PITCHED TOWARD COMPRESSOR
E. LIQUID LINE

4 M-500 **CONDENSING UNIT DETAIL**
SCALE: N.T.S.



7 M-500 **TRANSFER DUCT DETAIL**
SCALE: N.T.S.



1 M-500 **FLUE THRU FLAT ROOF DETAIL**
SCALE: N.T.S.

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6/25/19

NO.	REVISION	DATE

DRAWN: DWB | CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL HVAC DETAILS

DRAWING NUMBER M-500 MECHANICAL

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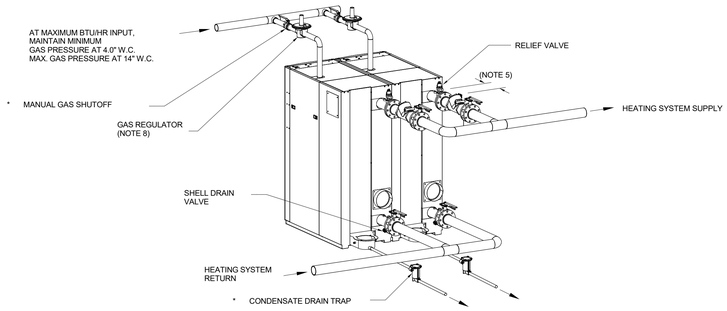
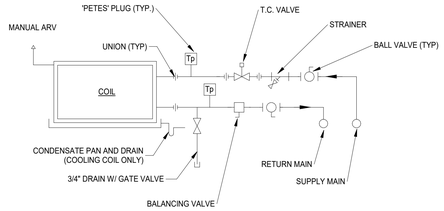
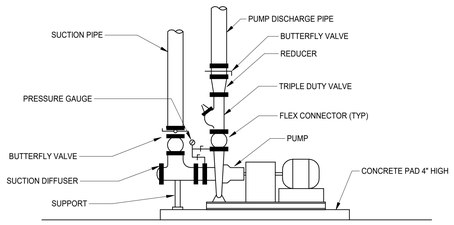


NOTES:
1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWING.
2. SHELL DRAIN VALVE AND CONDENSATE HOSE SHOULD BE ARRANGED TO PERMIT THE FLUIDS TO DRAIN FREELY, BY GRAVITY, TO A FLOOR DRAIN. RELIEF VALVE DISCHARGE SHOULD BE PIPED TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVAILABLE, THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT 18" ABOVE THE FLOOR.
3. ALL (*) ITEMS ARE INCLUDED SEPARATELY IN SHIPMENT.
4. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES AND AUTHORITIES SHOULD BE CONSULTED.
5. LOCATE WATER INLET AND OUTLET FITTINGS (i.e UNIONS, ELBOWS, ETC.) A MINIMUM OF 6" FROM HEATER FITTINGS, TO PREVENT INTERFERENCE WITH REMOVAL OF BOILER PANELS AND COVERS. ALL PIPING AND ELECTRIC CONNECTIONS (SERVICE SWITCHES, CONDUIT BOXES) SHOULD LIKEWISE BE 6" AWAY FROM SIDE PANELS.
6. WHEN AVAILABLE GAS PRESSURE IS GREATER THAN 14" W.C., A LOCK-UP STYLE REGULATOR MUST BE INSTALLED DOWNSTREAM OF THE MANUAL SHUTOFF VALVE TO BRING THE GAS PRESSURE DOWN TO 14" W.C. OR LESS.
7. WHEN USING THE AERCO CONDENSATE NEUTRALIZER TANK, FOR PROPER CONDENSATE DRAINAGE, THE NEUTRALIZER TANK MUST BE INSTALLED IN A PIT OR THE BOILER AND THE AERCO CONDENSATE TRAP MUST BE ELEVATED HIGHER THAN 4" ABOVE THE FLOOR. SEE CONDENSATE TANK INSTRUCTIONS TID-0074 FOR DETAILS.
8. AT 14" W.C. OR BELOW, A GAS REGULATOR IS OPTIONAL UNLESS REQUIRED BY LOCAL CODE.

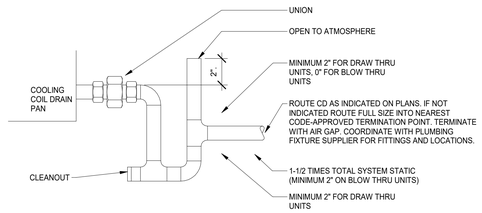
7 M-501 BOILER PIPING DETAIL
SCALE: N.T.S.



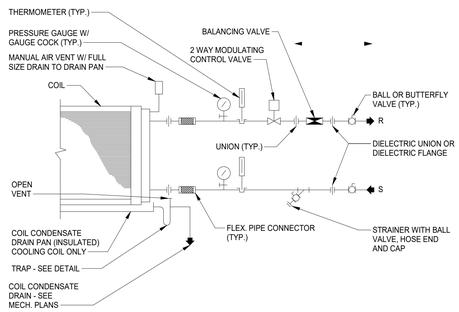
4 M-501 FAN COIL UNIT PIPING DETAIL
SCALE: N.T.S.



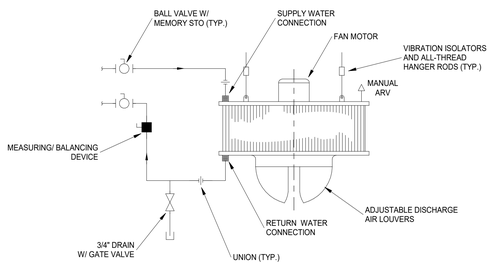
3 M-501 BASE MOUNTED PUMP PIPING DETAIL
SCALE: N.T.S.



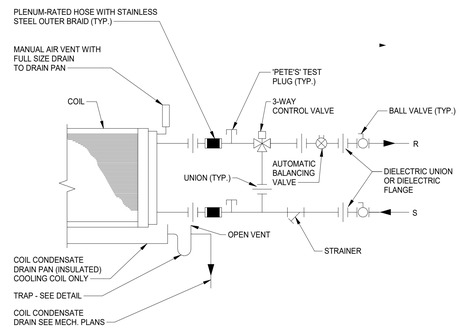
6 M-501 Cooling Coil Drain Trap Detail
SCALE: N.T.S.



2 M-501 AIR HANDLING UNIT COIL PIPING DETAIL (2-WAY)
SCALE: N.T.S.



5 M-501 VERTICAL UNIT HEATER PIPING DETAIL
SCALE: N.T.S.



1 M-501 AIR HANDLING UNIT COIL PIPING DETAIL (3-WAY)
SCALE: N.T.S.

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NOT FOR CONSTRUCTION

NO.	REVISION	DATE

DRAWN: JRA CHK'D: JRA
DESIGNED: JRA
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL HYDRONIC DETAILS

DRAWING NUMBER M-501
MECHANICAL

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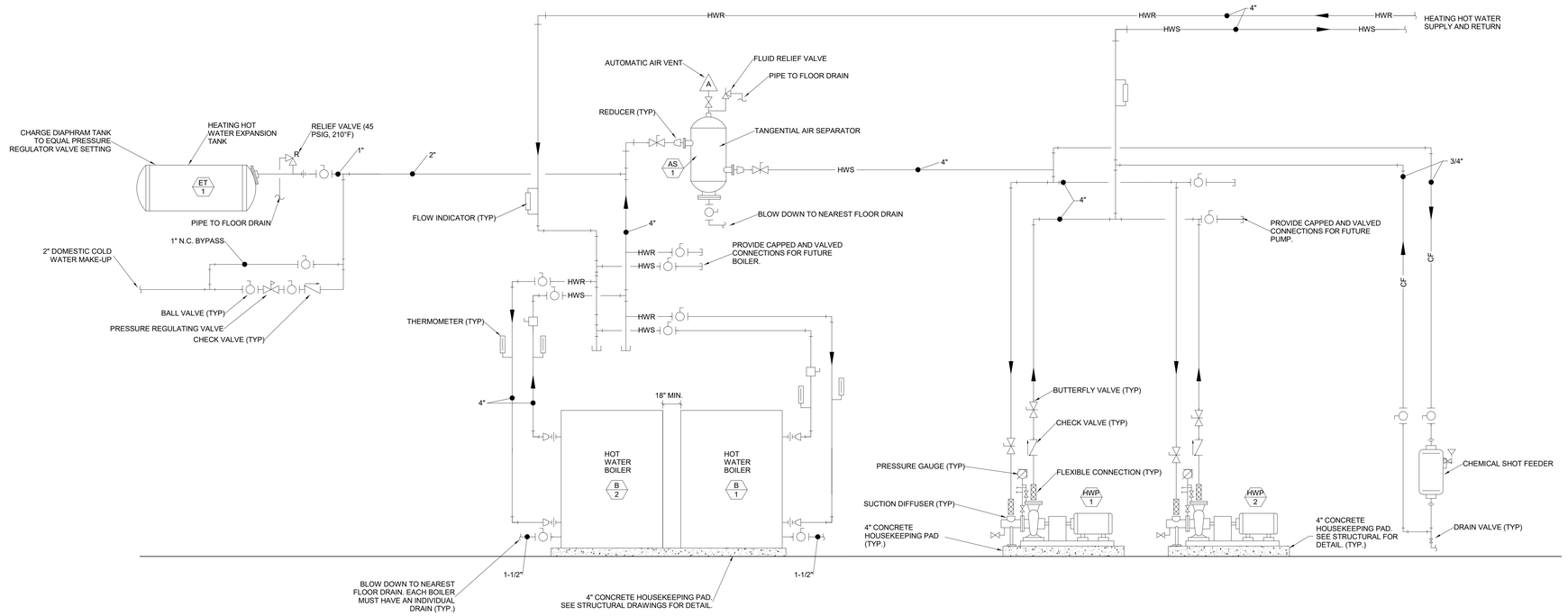
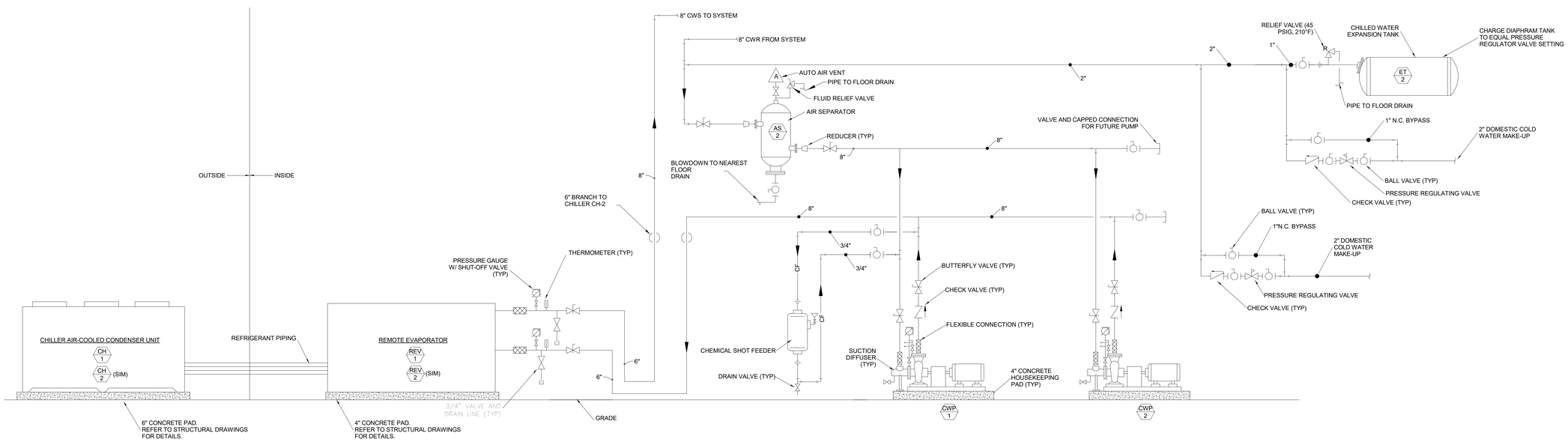


1 HEATING HOT WATER PIPING DIAGRAM
M-502 SCALE: 1/8" = 1'-0"



2 CHILLED WATER PIPING DIAGRAM
M-502 SCALE: N.T.S.

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PROFESSIONAL ENGINEER
9/5/19

NO.	REVISION	DATE

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DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

HYDRONIC SYSTEM PIPING DIAGRAMS

DRAWING NUMBER M-502
MECHANICAL

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AIR HANDLING UNIT FAN SCHEDULE

TAG		MANUFACTURER / MODEL	OUTDOOR VENTILATION (CFM)	SUPPLY FAN QUANTITY	SUPPLY FAN TOTAL CAPACITY (CFM)	SUPPLY FAN STATIC PRESSURE DROP (IN WG) TOTAL	SUPPLY FAN STATIC PRESSURE DROP (IN WG) EXTERNAL	SUPPLY FAN BHP (TOTAL)	SUPPLY FAN MOTOR (HP/EA)	SUPPLY FAN VFD ELECTRICAL DATA VOLTAGE	SUPPLY FAN VFD ELECTRICAL DATA PHASE	RETURN / EXHAUST FAN QUANTITY	RETURN / EXHAUST FAN TOTAL CAPACITY (CFM)	RETURN / EXHAUST FAN STATIC PRESSURE DROP (IN WG) TOTAL	RETURN / EXHAUST FAN STATIC PRESSURE DROP (IN WG) EXTERNAL	RETURN / EXHAUST FAN BHP (TOTAL)	RETURN / EXHAUST FAN MOTOR (HP/EA)	RETURN / EXHAUST FAN VFD ELECTRICAL DATA VOLTAGE	RETURN / EXHAUST FAN VFD ELECTRICAL DATA PHASE	FILTER TYPE	FILTER DEPTH (IN)	FILTER MID-LIFE AIR PRESSURE DROP (IN WG)	FILTER EFFICIENCY %	PREFILTER TYPE	PREFILTER DEPTH	PREFILTER MID-LIFE AIR PRESSURE DROP (IN WG)	PREFILTER EFFICIENCY %	NOTES
AHU	1	TRANE / CSAA050	11470	4	22750	4.87	2.80	27.266	11.5	460	3	4	22665	1.90	0.9	12.158	6	460	3	PLEATED MERV-8	2	0.62	30	-	-	-	-	1,2,5
AHU	2	TRANE / CSAA040	8800	4	18000	7.0	3.0	27.331	15	460	3	4	17500	2.23	0.9	8.81	4	460	3	CARTRIDGE MERV-15	12	0.76	95	PLEATED MERV-8	2	0.64	30	1,3,6
AHU	3	TRANE / CSAA040	10000	4	19750	7.46	2.9	25.84	11	460	3	4	19750	2.20	0.8	10.87	5	460	3	CARTRIDGE MERV-15	12	0.77	95	PLEATED MERV-8	2	0.65	30	1,4,6
AHU	4	TRANE / CSAA040	10000	4	19750	7.46	2.9	25.84	11	460	3	4	19750	2.20	0.8	10.87	5	460	3	CARTRIDGE MERV-15	12	0.77	95	PLEATED MERV-8	2	0.65	30	1,4,6

NOTES:
1. MANUFACTURER PROVIDED SUPPLY AND RETURN FAN VFDS AND DISCONNECTS PER DIVISION 26 SPECIFICATIONS.
2. REFER TO DETAILS 4/M-302, 1/M-501, AND 6/M-501.
3. REFER TO DETAILS 5/M-302, 1/M-501 (COOLING COIL), 2/M-501 (HEATING COIL), AND 6//M-501.
4. REFER TO DETAILS 6/M-302, 2/M-501, AND 6//M-501.
5. REFER TO 1/M-700 AND 3/M-700 FOR CONTROLS.
6. REFER TO 1/M-701 AND 3/M-700 FOR CONTROLS.

AIR HANDLING UNIT COIL SCHEDULE

TAG		MANUFACTURER	AIR FLOW (CFM)	COOLING CAPACITY (MBH) TOTAL	COOLING CAPACITY (MBH) SENSIBLE	COOLING ENTERING AIR DRY BULB	COOLING ENTERING AIR WET BULB	COOLING LEAVING AIR DRY BULB	COOLING LEAVING AIR WET BULB	COOLING MAX AIR PRESSURE DROP (IN WG)	COOLING ROW QUANTITY	COOLING FINS PER INCH	COOLING WATER ENTERING	COOLING WATER LEAVING	COOLING WATER FLOW (GPM)	COOLING MAX WATER PRESSURE DROP (FT HD)	HEATING CAPACITY (MBH)	HEATING AIR ENTERING DRY BULB	HEATING AIR LEAVING DRY BULB	HEATING MAX AIR PRESSURE DROP (IN WG)	HEATING ROW QUANTITY	HEATING FINS PER INCH	HEATING WATER ENTERING	HEATING WATER LEAVING	HEATING WATER FLOW (GPM)	HEATING MAX WATER PRESSURE DROP (FT HD)
AHU	1	TRANE / CSAA050	22665	1160.0	708.2	84.70 °F	70.20 °F	54.00 °F	52.90 °F	0.75	6	10.5	44.00 °F	58.00 °F	165.8	14.5	689.6	1.10 °F	55.00 °F	0.037	1	8.25	140 °F	100 °F	34.5	1.52
AHU	2	TRANE / CSAA040	17500	536.6	436.9	77.50 °F	63.50 °F	55.00 °F	54.86 °F	0.61	6	11.0	44.00 °F	58.00 °F	75.7	2.61	69.5	47.80 °F	55.00 °F	0.054	1	6.67	140 °F	100 °F	3.5	2.55
AHU	3	TRANE / CSAA040	19750	533.4	362.5	78.80 °F	66.10 °F	53.90 °F	53.80 °F	1.01	6	13.8	44.00 °F	58.00 °F	76.2	3.95	77.2	47.80 °F	55.00 °F	0.071	1	6.67	140 °F	100 °F	3.86	0.43
AHU	4	TRANE / CSAA040	19330	533.4	362.5	78.80 °F	66.10 °F	53.90 °F	53.80 °F	1.01	6	13.8	44.00 °F	58.00 °F	76.2	3.95	77.2	47.80 °F	55.00 °F	0.071	1	6.67	140 °F	100 °F	3.86	0.43

AIR HANDLING UNIT ENERGY WHEEL SCHEDULE

TAG		MANUFACTURER	AIR FLOW (CFM) VENTILATION / EXHAUST	AIR FLOW (CFM) SUPPLY / RETURN	PRESSURE DROP (IN WG) SUPPLY AIR	PRESSURE DROP (IN WG) EXHAUST AIR	SUMMER OUTSIDE AIR DRY BULB	SUMMER OUTSIDE AIR WET BULB	SUMMER RETURN AIR DRY BULB	SUMMER RETURN AIR WET BULB	SUMMER SUPPLY AIR DRY BULB	SUMMER SUPPLY AIR WET BULB	SUMMER EXHAUST AIR DRY BULB	SUMMER EXHAUST AIR WET BULB	SUMMER EFFECTIVENESS (%) LATENT	SUMMER EFFECTIVENESS (%) SENSIBLE	SUMMER EFFECTIVENESS (%) TOTAL	WINTER OUTSIDE AIR DRY BULB	WINTER OUTSIDE AIR WET BULB	WINTER RETURN AIR DRY BULB	WINTER RETURN AIR WET BULB	WINTER SUPPLY AIR DRY BULB	WINTER SUPPLY AIR WET BULB	WINTER EXHAUST AIR DRY BULB	WINTER EXHAUST AIR WET BULB	WINTER EFFECTIVENESS (%) LATENT	WINTER EFFECTIVENESS (%) SENSIBLE	WINTER EFFECTIVENESS (%) TOTAL	RECOVERED LOAD (MBH) SUMMER SENSIBLE	RECOVERED LOAD (MBH) SUMMER LATENT	RECOVERED LOAD (MBH) SUMMER TOTAL	RECOVERED LOAD (MBH) WINTER SENSIBLE	FILTER TYPE	FILTER DEPTH (IN)	FILTER MID-LIFE PRESSURE DROP (IN WG)	FILTER EFFICIENCY (%)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	NOTES
AHU	2	TRANE / CSAA040	8800 / 8800	17500 / 17500	0.497	0.48	95.00 °F	77.00 °F	75.00 °F	64.00 °F	77.56 °F	66.11 °F	89.89 °F	73.64 °F	68.84	74.47	71.42	0.00 °F	-2.00 °F	70.00 °F	53.00 °F	61.04 °F	47.74 °F	17.87 °F	16.95 °F	68.84	74.47	73.12	135	165	297	475	MERV-5	2	0.569	< 20	460	3	1,2,3,4
AHU	3	TRANE / CSAA040	10000 / 10000	19750 / 19750	0.52	0.508	95.00 °F	77.00 °F	75.00 °F	64.00 °F	78.20 °F	66.57 °F	89.73 °F	73.55 °F	68.13	73.65	68.48	0.00 °F	-2.00 °F	70.00 °F	53.00 °F	60.55 °F	47.45 °F	18.44 °F	17.45 °F	63.18	73.65	72.32	160	196	351	561	MERV-5	2	0.586	< 20	460	3	1,2,3,4
AHU	4	TRANE / CSAA040	10000 / 10000	19750 / 19750	0.52	0.508	95.00 °F	77.00 °F	75.00 °F	64.00 °F	78.20 °F	66.57 °F	89.73 °F	73.55 °F	68.13	73.65	70.67	0.00 °F	-2.00 °F	70.00 °F	53.00 °F	60.55 °F	47.45 °F	18.44 °F	17.45 °F	63.18	73.65	72.32	160	196	351	561	MERV-5	2	0.586	< 20	460	3	1,2,3,4

NOTES:
1. MANUFACTURER PROVIDED VFD AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. PROVIDE EXHAUST AIR BYPASS DAMPERS.
3. PROVIDE OUTSIDE AIR BYPASS DAMPERS.
4. PROVIDE RECIRCULATION DAMPERS.

AIR HANDLING UNIT ELECTRICAL SCHEDULE

TAG		MANUFACTURER	CIRCUIT 1 V / PH / HZ	CIRCUIT 1 FLA / MCA / FUSE	CIRCUIT 2 V / PH / HZ	CIRCUIT 2 FLA / MCA / FUSE	CIRCUIT 3 V / PH / HZ	CIRCUIT 3 FLA / MCA / FUSE	CIRCUIT 4 V / PH / HZ	CIRCUIT 4 FLA / MCA / FUSE	CIRCUIT 5 V / PH / HZ	CIRCUIT 5 FLA / MCA / FUSE
AHU	1	TRANE / CSAA050	460 / 3 / 60	66.3 / 82.6 / 125	460 / 3 / 60	34.0 / 42.5 / 70.0	115 /1 /60	8.0 / 10.0 / 15.0	-	-	-	-
AHU	2	TRANE / CSAA040	115 / 1 / 60	5.22 / 5.87 / 15.00	460 / 3 / 60	74.0 / 78.6 / 90.0	460 / 3 / 60	23.2 / 24.7 / 30.0	460 / 3 / 60	1.52 / 1.85 / 15	115 / 1 / 60	8.00 / 10.00 / 15
AHU	3	TRANE / CSAA040	115 / 1 / 60	5.22 / 5.87 / 15.00	460 / 3 / 60	54.5 / 57.9 / 70	460 / 3 / 60	26.8 / 28.5 / 35	460 / 3 / 60	1.7 / 2.1 / 15	115 / 1 / 60	8.00 / 10.00 / 15
AHU	4	TRANE / CSAA040	115 / 1 / 60	5.22 / 5.87 / 15.00	460 / 3 / 60	54.5 / 57.9 / 70	460 / 3 / 60	26.8 / 28.5 / 35	460 / 3 / 60	1.7 / 2.1 / 15	115 / 1 / 60	8.00 / 10.00 / 15

AHU-1 CIRCUIT LEGEND:
CIRCUIT 1 - SUPPLY FAN+CONTROLS + LIGHTS + SWITCH
CIRCUIT 2 - RETURN FAN MOTOR
CIRCUIT 3 - RECEPTACLE

AHU-2 THRU 4 CIRCUIT LEGEND:
CIRCUIT 1 - CONTROLS + LIGHTS + SWITCH
CIRCUIT 2 - SUPPLY FAN MOTORS
CIRCUIT 3 - EXHAUST / RETURN FAN MOTORS
CIRCUIT 4 - ENERGY RECOVERY WHEEL MOTOR
CIRCUIT 5 - RECEPTACLE

DUCTLESS SPLIT INDOOR UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	C.F.M.	RATED COOLING CAPACITY (BTU/H)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	NOTES
DS	A	MITSUBISHI	PKA-A18HA7	320 / 370 / 425	18,000	208 / 230	1	1	15	1,2,3
DS	B	MITSUBISHI	PKA-A18HA7	320 / 370 / 425	18,000	208 / 230	1	1	15	1,2,3
DS	C	MITSUBISHI	PKA-A18HA7	320 / 370 / 425	18,000	208 / 230	1	1	15	1,2,3
DS	D	MITSUBISHI	PKA-A18HA7	320 / 370 / 425	18,000	208 / 230	1	1	15	1,2,3
DS	E	MITSUBISHI	PKA-A18HA7	320 / 370 / 425	18,000	208 / 230	1	1	15	1,2,3
DS	F	MITSUBISHI	PLA-A24EA7	640 / 710 / 810	24,000	208 / 230	1	1	25	1,2,3
DS	G	MITSUBISHI	PLA-A24EA7	640 / 710 / 810	24,000	208 / 230	1	1	25	1,2,3

NOTES:
1. REFER TO DETAIL 4/M500.
2. CONTRACTOR TO PROVIDE TEMPERATURE SENSOR IN EACH ROOM WITH DUCTLESS SPLIT TO BE INTERFACED W/ BUILDING AUTOMATION SYSTEM.
3. PROVIDE THERMOSTAT WITH DUCTLESS SPLIT SYSTEM.

ELECTRIC WALL HEATER SCHEDULE

TAG		MANUFACTURER	MODEL	CAPACITY (MBH)	AIR FLOW (CFM)	MOUNTING HEIGHT (A.F.F.)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA AMPS	ELECTRICAL DATA KILOWATTS	NOTES
EWH	1	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1
EWH	2	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1
EWH	3	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1
EWH	4	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1
EWH	5	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1
EWH	6	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1
EWH	7	QMARK	AWH 3150 F	5118	100	8"	120	1	12.5	1500	1

NOTES:
1. RECESSED UNIT. PROVIDE INTEGRAL THERMOSTAT WITH LABEL, THERMAL OVERLOAD PROTECTION, BUILT-IN DISCONNECT SWITCH AND FAN DELAY SWITCH.

ELECTRIC HEATER SCHEDULE

TAG		MANUFACTURER	MODEL	CAPACITY (MBH)	AIR FLOW (CFM)	MOUNTING HEIGHT (A.F.F.)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA AMPS	ELECTRICAL DATA KILOWATTS	NOTES
EUH	1	QMARK	MUH 0381	10	350	7'-6"	208	1	14.5	3	1

NOTES:
1. PROVIDE INTEGRAL THERMOSTAT WITH LABEL, THERMAL OVERLOAD PROTECTION, BUILT-IN DISCONNECT SWITCH AND FAN DELAY SWITCH.

PACKAGED ROOFTOP UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	SUPPLY AIR FAN CFM	SUPPLY AIR FAN OUTSIDE AIR CFM	SUPPLY AIR FAN BHP	SUPPLY AIR FAN HP	GAS HEATING GAS INPUT (MBH)	GAS HEATING GAS OUTPUT (MBH)	GAS HEATING EFF (%)	GAS HEATING GAS STAGES	GAS HEATING HEATING COIL EAT	GAS HEATING HEATING COIL LAT	DX COOLING GROSS TOTAL (MBH)	DX COOLING GROSS SENSIBLE (MBH)	DX COOLING NET TOTAL COOLING (MBH)	DX COOLING NET SENSIBLE COOLING (MBH)	DX COOLING EER	DX COOLING IEER	DX COOLING E.A.T. DB	DX COOLING E.A.T. WB	DX COOLING L.A.T. DB	DX COOLING L.A.T. WB	DX COOLING REF TYPE	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	WEIGHT	NOTES
RTU	1	TRANE	YHC036E4RLA	1150	277	0.5	0.75	60	48	80	1	50.5 °F	91.7 °F	38.83	24.73	37.31	23.21	12.4	14.40	80.2 °F	68.6 °F	59.1 °F	57.3 °F	R-410	460	3	12	15	767	1,2,3,4,5,6,7,8,9,10

NOTES:
1. MANUFACTURER PROVIDED STARTER / DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. PROVIDE RETURN AIR SMOKE DETECTOR PER DIVISION 28 SPECIFICATIONS.
3. PROVIDE LOUVERED HAIL GUARD.
4. PROVIDE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
5. PROVIDE POWERED 120 V CONENIENCE OUTLET.
6. PROVIDE ROOF CURB TO EXTEND 14" ABOVE ROOF INSULATION.
7. PROVIDE HOT GAS BYPASS.
8. SEE DETAIL 8/M-500.
9. PROVIDE BACNET INTERFACE FOR MONITORING BY THE BUILDING AUTOMATION SYSTEM.
10. PROVIDE CONDENSATE PUMP.

PUMP SCHEDULE

TAG		MANUFACTURER	MODEL	SERIES	GPM	HEAD (FT)	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	MOTOR (RPM)	MOTOR (HP)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FREQUENCY (Hz)	NOTES
CWP	1	BELL & GOSSETT	3 BD	e-1510	535	65	4	3	1800	15	460	3	60	1,3,5
CWP	2	BELL & GOSSETT	3 BD	e-1510	535	65	4	3	1800	15	460	3	60	1,3,5
CWP	FTR	BELL & GOSSETT	-	-	-	-	-	-	-	-	-	-	-	2
HWP	1	BELL & GOSSETT	2 BD	e-1510	140	50	2.5	2	1504	5	460	3	60	1,4,6
HWP	2	BELL & GOSSETT	2 BD	e-1510	140	50	2.5	2	1504	5	460	3	60	1,4,6
HWP	FTR	BELL & GOSSETT	-	-	-	-	-	-	-	-	-	-	-	2

NOTES:
1. PROVIDE STARTER (VFD) AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. FUTURE PUMP LOCATION.
3. REFER TO DETAILS 3/M-501 AND 2/M-502.
4. REFER TO DETAILS 3/M-501 AND 1/M-502.
5. REFER TO 1/M-703 AND 3/M-700 FOR CONTROLS.
6. REFER TO 1/M-702 AND 3/M-700 FOR CONTROLS.

COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	DX COOLING COIL CAPACITY (MBH) TOTAL	DX COOLING COIL CAPACITY (MBH) SENSIBLE	HUMIDIFIER SECTION TYPE	HUMIDIFIER SECTION CAPACITY (LB/H)	EVAPORATOR FAN HP	EVAPORATOR FAN DRIVE TYPE	EVAPORATOR FAN C.F.M.	ELECTRIC REHEAT CAPACITY (MBH)	VOLTAGE	PHASE	FREQUENCY (Hz)	FLA	OVERCURRENT PROTECTION (AMPS)	NOTES
CRAC	1	LIEBERT	MINI-MATE2: MMD96ENAHEL	92.7	84.9	STEAM GENERATING CANISTER	10	2.00	BELT	3750	39.20	460	3	60	21.0	30	1,2,3,4,5,6,7,8
CRAC	2	LIEBERT	DATAMATE: DME020E-PHN	22.8	22.7	STEAM GENERATING CANISTER	3	0.16	DIRECT	750 / 870	18.08	277	1	60	16.4	25	1,6,7,8
CRAC	3	LIEBERT	MINI-MATE: MT048HE1A0B	49.1	45.4	STEAM GENERATING CANISTER	8	2.6	VARIABLE SPEED EC	2200	36.8	460	3	60	20.3	30	1,2,3,4,5,6,7,8
CRAC	4	LIEBERT	MINI-MATE: MT048HE1A0B	49.1	45.4	STEAM GENERATING CANISTER	8	2.6	VARIABLE SPEED EC	2200	36.8	460	3	60	21.0	30	1,2,3,4,5,6,7,8

NOTES:
1. PROVIDE STARTER / DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. PROVIDE REMOTE WALL MOUNT CONTROLLER.
3. PROVIDE RETURN AIR FILTER BOX.
4. PROVIDE FILTER CLOG SWITCH.
5. PROVIDE HIGH TEMPERATURE SENSOR.
6. REFER TO DETAILS 4/M-500 AND 6/M-501.
7. REFER TO DETAIL 7/M-704 FOR CONTROLS.
8. PROVIDE CONDENSATE PUMP.

INFRARED HEATER SCHEDULE

TAG		MANUFACTURER	MODEL	CAPACITY HI / LOW (MBH)	FUEL TYPE	LENGTH	DIRECT VENTING (IN) AIR INTAKE	DIRECT VENTING (IN) EXHAUST	MOUNTING HEIGHT (A.F.F.)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	NOTES
IR	1	ADVANCED RADIANT SYSTEMS	AX-140 N	135 / 85	NATURAL GAS	40' - 0"	4	4	16'-8"	120	1	1,2,3,4
IR	2	ADVANCED RADIANT SYSTEMS	AX-140 N	135 / 85	NATURAL GAS	40' - 0"	4	4	16'-8"	120	1	1,2,3,4
IR	3	ADVANCED RADIANT SYSTEMS	AX-140 N	135 / 85	NATURAL GAS	40' - 0"	4	4	16'-8"	120	1	1,2,3,4
IR	4	ADVANCED RADIANT SYSTEMS	AX-140 N	135 / 85	NATURAL GAS	40' - 0"	4	4	16'-8"	120	1	1,2,3,4

NOTES:
1. PROVIDE CONCENTRIC VENT WITH CAP UP THRU ROOF. INSTALL PER MFGR RECOMMENDATIONS. COLOR SHALL MATCH ROOF COLOR.
2. PROVIDE SINGLE THERMOSTAT TO CONTROL ALL UNITS IN EACH SPACE.
3. REFER TO DETAILS 1/M-500 AND 10/M-500.
4. PROVIDE CORD AND PLUG ELECTRICAL CONNECTION.

AIR COOLED CONDENSING UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	NOMINAL TONS	DESIGN AMBIENT TEMP (F)	SEER	REF TYPE	COMPRESSOR NO.	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FREQUENCY (Hz)	ELECTRICAL DATA FLA	ELECTRICAL DATA OVERCURRENT PROTECTION (AMPS)	EQUIPMENT SERVED	NOTES
ACC	1	LIEBERT	PFH 096 A - ALN	8	95	-	R-407C	2	460	3	60	18.1	30	CRAC - 1	1,2,3
ACC	2	LIEBERT	PFH 020 A - PLN	2	95	-	R-407C	1	277	1	60	10.5	25	CRAC - 2	1,2,3
ACC	3	LIEBERT	PFD 054 A - AL1	4	95	-	R-410A	2	460	3	60	10.3	20	CRAC - 3	1,2,3
ACC	4	LIEBERT	PFD 054 A - AL1	4	95	-	R-410A	2	460	3	60	10.3	20	CRAC - 4	1,2,3
ACC	A	MITSUBISHI	PUY-A18NKA7	1.5	95	18.5	R-410A	1	208 / 230	1	60	11 (MCA)	28	DS - A	1,2,3
ACC	B	MITSUBISHI	PUY-A18NKA7	1.5	95	19.8	R-410A	1	208 / 230	1	60	11 (MCA)	28	DS - B	1,2,3
ACC	C	MITSUBISHI	PUY-A18NKA7	1.5	95	18.5	R-410A	1	208 / 230	1	60	11 (MCA)	28	DS - C	1,2,3
ACC	D	MITSUBISHI	PUY-A18NKA7	1.5	95	18.5	R-410A	1	208 / 230	1	60	11 (MCA)	28	DS - D	1,2,3
ACC	E	MITSUBISHI	PUY-A18NKA7	1.5	95	18.5	R-410A	1	208 / 230	1	60	11 (MCA)	28	DS - E	1,2,3
ACC	F	MITSUBISHI	PUY-A24NHA7	2	95	24.2	R-410A	1	208 / 230	1	60	19 (MCA)	26	DS - F	1,2,3
ACC	G	MITSUBISHI	PUY-A24NHA7	2	95	24.2	R-410A	1	208 / 230	1	60	19 (MCA)	26	DS - G	1,2,3

NOTES:
1. PROVIDE STARTER/DISCONNECT PER DIVISION 26.
2. PROVIDE CRANKCASE HEATER, LOW-AMBIENT KIT, WINTER START KIT, AND WIND BAFFLE.
3. REFER TO DETAIL 4/M-500. SIZE REFRIGERANT PIPING PER MANUFACTURE RECOMMENDATION.

EXHAUST FAN SCHEDULE

TAG		MANUFACTURER	MODEL	DRIVE TYPE	AIR FLOW (CFM)	EXTERNAL SP (IN WG)	MOTOR (RPM)	MOTOR (HP)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FLA	NOTES
EF	1	GREENHECK	G-103-VG	DIRECT	800	0.5	1310	1/4	115	1	2.6	1,4,10
EF	2	GREENHECK	G-080-VG	DIRECT	200	0.5	1511	1/10	115	1	2.6	1,4,10
EF	3	GREENHECK	G-090-VG	DIRECT	475	0.5	1482	1/10	115	1	2.6	1,4,10
EF	4	GREENHECK	G-095-VG	DIRECT	400	0.5	1480	1/10	115	1	2.6	1,4,10
EF	5	GREENHECK	G-080-VG	DIRECT	330	0.5	1724	1/10	115	1	2.6	1,4,10
EF	6A	GREENHECK	GB-300-VG	BELT	7500	0.5	580	2	460	3	3.4	1,5,10,11
EF	6B	GREENHECK	GB-300-VG	BELT	7500	0.5	580	2	460	3	3.4	1,5,10,11
EF	7	GREENHECK	CUBE - 161	BELT	2200	0.5	993	1/2	115	1	9.8	1,6,10
EF	8	NEDERMAN	N24 W/NEX MD4	DIRECT	800	4.5	-	1-1/5	460	3	2.35	2,3,7,9
EF	9	GREENHECK	G-098-VG	DIRECT	450	1.0	1665	1/4	115	1	2.85	2,8
EF	10	GREENHECK	G-098-VG	DIRECT	450	1.0	1665	1/4	115	1	2.85	2,8
EF	ALT-A	GREENHECK	GB-220	BELT	4200	0.5	686	3/4	460	3	1.6	1,5,8,10,12
EF	ALT-B	GREENHECK	GB-220	BELT	4200	0.5	686	3/4	460	3	1.6	1,5,8,10,12

NOTES:
1. MANUFACTURER PROVIDED STARTER AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. PROVIDE STARTER AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
3. MANUFACTURER PROVIDED MANUAL CONTROLLER. REFER TO DETAIL 3/M-704.
4. FAN SHALL OPERATE CONTINUOUSLY. REFER TO DETAIL 1/M-704.
5. FAN SHALL OPERATE PER CO & NO2 SENSORS LOCATED IN THE APPARATUS BAY. MANUAL SWITCH SHALL ALSO BE PROVIDED.REFER TO DETAIL 2/M-704.
6. FAN SHALL OPERATE PER REFRIGERANT DETECTION SENSOR. MANUAL SWITCH SHALL ALSO BE PROVIDED. REFER TO DETAIL 6/M-704.
7. FAN SHALL OPERATE AS PER USER DEFINED SCHEDULE. REFER TO DETAIL 10/M-704.
8. FAN SHALL OPERATE AS PER ON/OFF SWITCH.
9. PROVIDE WITH WALL BRACKET FOR HOSE AND FAN. 13 FOOT HOSE WITH LED LIGHT AND FAN STARTER.
10. REFER TO DETAIL 5/M-500.
11. SALLYPORT BASE BID ITEM ONLY.
12. SALLYPORT ALTERNATE #1 ITEM ONLY.

SMOKE EXHAUST FAN SCHEDULE

TAG		MANUFACTURER	MODEL	DRIVE TYPE	AIR FLOW (CFM)	EXTERNAL SP (IN WG)	MOTOR (RPM)	MOTOR (HP)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FLA	NOTES
SEF	1-1	GREENHECK	CUBE - 220	BELT	4320	0.5	696	1	460	3	2.1	1,2,3,4
SEF	1-2	GREENHECK	CUBE - 220	BELT	3800	0.5	647	3/4	460	3	1.6	1,2,3,4
SEF	1-3	GREENHECK	CUBE - 220	BELT	2200	0.5	993	1/2	115	1	9.8	1,2,3,4
SEF	1-4	GREENHECK	CUBE - 220	BELT	3800	0.5	647	3/4	460	3	1.6	1,2,3,4
SEF	1-5	GREENHECK	CUBE - 220	BELT	4320	0.5	696	1	460	3	2.1	1,2,3,4
SEF	1-6	GREENHECK	CUBE - 220	BELT	3400	0.5	613	3/4	460	3	1.6	1,2,3,4
SEF	2-1	GREENHECK	CUBE - 220	BELT	4320	0.5	696	1	460	3	2.1	1,2,3,4
SEF	2-2	GREENHECK	CUBE - 220	BELT	3800	0.5	647	3/4	460	3	1.6	1,2,3,4
SEF	2-3	GREENHECK	CUBE - 220	BELT	2200	0.5	993	1/2	115	1	9.8	1,2,3,4
SEF	2-4	GREENHECK	CUBE - 220	BELT	3800	0.5	647	3/4	460	3	1.6	1,2,3,4
SEF	2-5	GREENHECK	CUBE - 220	BELT	4320	0.5	696	1	460	3	2.1	1,2,3,4
SEF	2-6	GREENHECK	CUBE - 220	BELT	3400	0.5	613	3/4	460	3	1.6	1,2,3,4
SEF	3	GREENHECK	CUBE - 220	BELT	3150	0.5	592	3/4	460	3	1.6	1,2,3,4
SEF	4	GREENHECK	CUBE - 141	BELT	950	0.5	937	1/4	115	1	5.8	1,2,3,4
SEF	5	GREENHECK	CUBE - 099	BELT	500	0.5	1200	1/4	115	1	5.8	1,2,3,4
SEF	6A	GREENHECK	CUBE - 220	BELT	3700	0.5	638	3/4	460	3	1.6	1,2,3,4
SEF	6B	GREENHECK	CUBE - 220	BELT	3700	0.5	638	3/4	460	3	1.6	1,2,3,4
SEF	6C	GREENHECK	CUBE - 220	BELT	3700	0.5	638	3/4	460	3	1.6	1,2,3,4

NOTES:
1. PROVIDE STARTER (VFD) AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. REFER TO DETAIL 2/M-500.
3. REFER TO DETAIL M-701 FOR CONTROLS.
4. PROVIDE SECURITY BARS.

AIR COOLED CHILLER SCHEDULE

TAG		MANUFACTURER / MODEL	REMOTE EVAPORATOR	NOMINAL TONNAGE	EER	IPLV	FLOW RATE (GPM) MINIMUM	FLOW RATE (GPM) DESIGN	FLOW RATE (GPM) MAXIMUM	WATER TEMPERATURE ENTERING	WATER TEMPERATURE LEAVING	REFRIGERANT TYPE	NUMBER OF REFRIGERANT CIRCUITS	NUMBER OF COMPRESSORS	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FREQUENCY (HZ)	ELECTRICAL DATA STARTER TYPE	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	NOTES
CH	1	TRANE / RTAC	REV-1	250	9.774	13.76	217	405	796	58 °F	44 °F	R-410 A	2	2	460	3	60	WYE-DELTA	495	600	1,2,3,4
CH	2	TRANE / RTAC	REV-2	250	9.774	13.76	217	405	796	58 °F	44 °F	R-410 A	2	2	460	3	60	WYE-DELTA	495	600	1,2,3,4

NOTES:
1. MANUFACTURER PROVIDED STARTER PER DIVISION 26 SPECIFICATIONS.
2. PROVIDE DISCONNECT IN NEMA 3R RATED ENCLOSURE PER DIVISION 26 SPECIFICATIONS.
3. REFER TO DETAIL 2/M-502.
4. REFER TO 1/M-703 AND 2/M-703 FOR CONTROLS.

DOOR AIR CURTAIN SCHEDULE

TAG		MANUFACTURER	MODEL #	WIDTH (IN)	AVG. VELOCITY (FPM)	C.F.M.	FAN QUANTITY	FAN H.P.	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FUSE (AMP)	NOTES
DAC	1	BERNER	IDC14-3132A Z-F	132	2173	5070	3	1	480	3	9.6	1,2,3,4

NOTES:
1. MANUFACTURER PROVIDED ACTIVATION SWITCH.
2. MANUFACTURER PROVIDED DISCONNECT PER DIVISION 26 SPECIFICATIONS.
3. MOUNTING OPTION TO BE WALL MOUNT AND EXTENSION BRACKET COMBO.
4. FILTERED INTAKE AT FRONT.

BOILER SCHEDULE

TAG		MANUFACTURER	MODEL	SIZE	FUEL TYPE	INPUT (MBH)	OUTPUT (MBH)	WATER TEMPERATURE ENTERING	WATER TEMPERATURE LEAVING	CAPACITY (GAL.)	FLOW RATE (GPM) MINIMUM	FLOW RATE (GPM) DESIGN	FLOW RATE (GPM) MAXIMUM	RATED WATER PRESSURE DROP (PSIG)	GAS INLET CONNECTION (IN)	DIRECT VENTING (IN) AIR INTAKE	DIRECT VENTING (IN) EXHAUST	EFFICIENCY (%)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PHASE	ELECTRICAL DATA FLA	ELECTRICAL DATA BURNER MOTOR HP	WEIGHT (LBS)	NOTES
B	1	AERCO	BENCHMARK	2500	NATURAL GAS	2500	2275	100 °F	140 °F	58	25	115	350	3	2	8	8	91	208	3	10	3	2500	1,2,3,4,6
B	2	AERCO	BENCHMARK	2500	NATURAL GAS	2500	2275	100 °F	140 °F	58	25	115	350	3	2	8	8	91	208	3	10	3	2500	1,2,3,4,6
B	FTR	AERCO	BENCHMARK	-	-	-	-	100 °F	140 °F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

NOTES:
1. PROVIDE STARTER AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. REFER TO DETAIL 1/M-702 AND 2/M-702 FOR CONTROLS.
3. MANUFACTURER TO PROVIDE BOILER SEQUENCING AS PART OF INTERNAL CONTROLS.
4. PROVIDE NEUTRALIZING KIT.
5. FUTURE BOILER.
6. REFER TO DETAILS 7/M-501 AND 1/M-502.

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER 1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA
MECHANICAL EQUIPMENT SCHEDULES

DRAWING NUMBER M-600
MECHANICAL

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL #	DESIGNATION	DIMENSIONS (IN) WIDTH	HEIGHT	DEPTH	FREE AREA (SQ. FT.)	AIR FLOW (CFM)	VELOCITY (FPM)	MOUNTING HEIGHT	NOTES
L-1	GREENHECK	EDJ-601	EXHAUST	288	96	4	112.3	75,800	675	SEE ARCH.	1,2
L-2	GREENHECK	EDJ-601	INTAKE	144	144	4	85.1	34,400	404	SEE ARCH.	1,2
L-3	GREENHECK	EDJ-601	INTAKE	144	144	4	85.1	41,400	487	SEE ARCH.	1,2

NOTES:
1. PROVIDE MOTORIZED DAMPER.
2. SEE DETAIL 3/M-500.

ROOF HOOD SCHEDULE

TAG		MANUFACTURER	MODEL #	DESIGNATION	ROOF OPENING DIMENSIONS (IN) WIDTH	HEIGHT	FREE AREA (SQ. FT.)	AIR FLOW (CFM)	VELOCITY (FPM)	MOUNTING HEIGHT	NOTES
RH	1	GREENHECK	GRSI - 36	INTAKE	38.5	38.5	7 (THROAT AREA)	3750	514	ROOF MOUNT	1,3,4
RH	2	GREENHECK	GRSI - 36	INTAKE	38.5	38.5	7 (THROAT AREA)	3750	514	ROOF MOUNT	1,3,4
RH	3	GREENHECK	GRSI - 36	INTAKE	38.5	38.5	7 (THROAT AREA)	3750	514	ROOF MOUNT	1,3,4
RH	4	GREENHECK	GRSI - 36	INTAKE	38.5	38.5	7 (THROAT AREA)	3750	514	ROOF MOUNT	1,3,4
RH	5	GREENHECK	GRSI - 24	INTAKE	26.5	26.5	3 (THROAT AREA)	2200	679	ROOF MOUNT	3,5
RH	ALT-A	GREENHECK	GRSI - 36	INTAKE	38.5	38.5	7 (THROAT AREA)	4200	576	ROOF MOUNT	2,3,4
RH	ALT-B	GREENHECK	GRSI - 36	INTAKE	38.5	38.5	7 (THROAT AREA)	4200	576	ROOF MOUNT	2,3,4

NOTES:
1. SALLYPORT BASE BID ITEM ONLY.
2. SALLYPORT ALTERNATE BID ITEM ONLY.
3. REFER TO DETAIL 6/M-500.
4. REFER TO DETAIL 2/M-704 FOR CONTROLS.
5. REFER TO DETAIL 6/M-704 FOR CONTROLS.

HOT WATER HEATER UNIT SCHEDULE

TAG		MANUFACTURER	MODEL #	AREA SERVED	TYPE	HEATING CAPACITY (MBH)	ELECTRICAL DATA VOLTAGE	PHASE	Hz	EXTERNAL DIMENSIONS LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	NOTES
HUH	1	TRANE	UHPB0421T	RECEIVING	VERTICAL	42	115	1	60	18.25	18.25	6	1,2,3,4
HUH	2	TRANE	UHPB0421T	RECEIVING	VERTICAL	42	115	1	60	18.25	18.25	6	1,2,3,4

NOTES:
1. MANUFACTURER PROVIDED DISCONNECT SWITCH PER DIVISION 26 SPECIFICATIONS.
2. REFER TO DETAIL 5/M-501.
3. REFER TO DETAIL 5/M-704.
4. EWT=140 DEG-F, LWT=100 DEG-F, 2.1 GPM.

VAV BOX FAN POWERED TYPE

TAG		MANUFACTURER	MODEL	UNIT SIZE	INLET DIA. (IN)	AIR FLOW (CFM) FAN FLOW	MAX PRIMARY	MIN PRIMARY	MAX AIR PRESSURE DROP (IN WG)	COIL CAPACITY (MBH)	AIR TEMPERATURE ENTERING	LEAVING	AIR DISCHARGE NC	WATER PRESSURE DROP (FT WG)	WATER FLOW (GPM)	WATER TEMPERATURE ENTERING	LEAVING	COIL ROWS	FAN MOTOR TYPE	HP	VOLTAGE	FLA	NC	NOTES
FPV	1-02	PRICE	FDC	60	14	2230	2230	1210	0.20	82.50	64.10 °F	98.20 °F	28	5.69	7.04	140.00 °F	116.20 °F	2	ECM	2 @ 3/4	277	9.8	42	1,2,3
FPV	1-15	PRICE	FDC	60	14	2650	2650	1290	0.26	88.0	65.30 °F	84.10 °F	32	0.89	2.49	140.00 °F	96.00 °F	2	ECM	2 @ 3/4	277	9.8	45	1,2,3
FPV	1-24	PRICE	FDC	60	14	2580	2580	1261	0.26	86.00	65.20 °F	96.00 °F	31	5.45	6.87	140.00 °F	114.60 °F	2	ECM	2 @ 3/4	277	9.8	45	1,2,3
FPV	1-25	PRICE	FDC	20	10	700	700	340	0.14	23.20	65.30 °F	95.80 °F	22	0.88	1.82	140.00 °F	114.20 °F	2	ECM	1/3	277	2.20	27	1,2,3
FPV	2-02	PRICE	FDC	10	6	400	400	195	0.17	39.8	65.20 °F	83.70 °F	21	0.04	0.38	140.00 °F	97.40 °F	2	ECM	1/4	277	2.30	30	1,2,3
FPV	2-03	PRICE	FDC	40	10	1710	1710	373	0.64	30.5	70.60 °F	84.10 °F	38	0.51	1.34	140.00 °F	102.20 °F	2	ECM	3/4	277	5.80	38	1,2,3
FPV	2-04	PRICE	FDC	30	8	1220	1220	177	0.36	12.4	72.10 °F	84.60 °F	32	0.09	0.51	140.00 °F	92.20 °F	2	ECM	1/2	277	3.20	32	1,2,3
FPV	2-07	PRICE	FDC	10	6	310	310	153	0.11	6.40	65.10 °F	81.20 °F	15	0.02	0.29	140.00 °F	95.70 °F	2	ECM	1/4	277	2.30	26	1,2,3
FPV	2-08	PRICE	FDC	10	8	590	590	177	0.33	10.90	69.00 °F	85.80 °F	27	0.08	0.59	140.00 °F	102.80 °F	2	ECM	1/4	277	2.30	31	1,2,3
FPV	2-09	PRICE	FDC	20	8	765	765	188	0.17	14.2	70.10 °F	85.10 °F	21	0.11	0.57	140.00 °F	95.70 °F	2	ECM	1/3	277	2.20	32	1,2,3
FPV	2-12	PRICE	FDC	20	10	900	900	268	0.22	16.80	69.00 °F	86.20 °F	24	0.23	0.85	140.00 °F	99.60 °F	2	ECM	1/3	277	2.20	30	1,2,3
FPV	3-01	PRICE	FDC	40	10	1250	1250	624	0.27	42.50	65.00 °F	96.30 °F	27	2.70	3.02	140.00 °F	111.50 °F	2	ECM	3/4	277	5.80	32	1,2,3
FPV	3-02	PRICE	FDC	40	10	1340	1340	398	0.42	22.10	69.10 °F	84.30 °F	33	0.39	1.14	140.00 °F	100.90 °F	2	ECM	3/4	277	5.80	33	1,2,3
FPV	3-03	PRICE	FDC	40	10	1740	1740	842	0.47	57.40	65.30 °F	95.70 °F	38	7.21	5.21	140.00 °F	117.60 °F	2	ECM	3/4	277	5.80	39	1,2,3
FPV	3-04	PRICE	FDC	40	10	1600	1600	513	0.57	28.90	68.60 °F	85.30 °F	30	0.81	1.74	140.00 °F	106.20 °F	2	ECM	3/4	277	5.80	34	1,2,3
FPV	3-05	PRICE	FDC	60	14	2270	2270	842	0.26	76.7	65.10 °F	90.90 °F	26	1.10	2.82	140.00 °F	98.80 °F	2	ECM	2 @ 3/4	277	9.80	37	1,2,3
FPV	3-06	PRICE	FDC	60	14	2160	2160	513	0.19	34.1	70.20 °F	82.50 °F	25	0.24	1.18	140.00 °F	90.40 °F	2	ECM	2 @ 3/4	277	9.80	36	1,2,3
FPV	3-07	PRICE	FDC	60	14	2270	2270	842	0.26	76.7	67.60 °F	90.90 °F	26	1.10	2.82	140.00 °F	98.80 °F	2	ECM	2 @ 3/4	277	9.80	37	1,2,3
FPV	3-08	PRICE	FDC	60	14	2160	2160	513	0.19	34.1	70.20 °F	82.50 °F	25	0.24	1.18	140.00 °F	90.40 °F	2	ECM	2 @ 3/4	277	9.80	36	1,2,3
FPV	3-09	PRICE	FDC	40	10	1740	1740	842	0.47	57.40	65.30 °F	95.70 °F	38	1.10	5.21	140.00 °F	117.60 °F	2	ECM	3/4	277	5.80	39	1,2,3
FPV	3-10	PRICE	FDC	40	10	1600	1600	513	0.57	28.90	68.60 °F	85.30 °F	30	7.21	1.74	140.00 °F	106.20 °F	2	ECM	3/4	277	5.80	34	1,2,3
FPV	3-11	PRICE	FDC	40	10	1300	1300	632	0.29	43.10	65.30 °F	95.90 °F	27	0.81	3.05	140.00 °F	111.40 °F	2	ECM	3/4	277	5.80	32	1,2,3
FPV	3-12	PRICE	FDC	40	10	1440	1440	411	0.48	23.10	69.30 °F	84.00 °F	34	0.42	1.20	140.00 °F	101.20 °F	2	ECM	3/4	277	5.80	35	1,2,3
FPV	3-16	PRICE	FDC	40	10	1600	1600	1240	0.41	52.00	59.50 °F	89.50 °F	36	3.31	3.38	140.00 °F	108.80 °F	2	ECM	3/4	277	5.80	37	1,2,3
FPV	4-01	PRICE	FDC	40	10	1250	1250	624	0.27	42.50	65.00 °F	96.30 °F	27	2.70	3.02	140.00 °F	111.50 °F	2	ECM	3/4	277	5.80	32	1,2,3
FPV	4-02	PRICE	FDC	40	10	1340	1340	398	0.42	22.10	69.10 °F	84.30 °F	33	0.39	1.14	140.00 °F	100.90 °F	2	ECM	3/4	277	5.80	33	1,2,3
FPV	4-03	PRICE	FDC	40	10	1740	1740	842	0.47	57.40	65.30 °F	95.70 °F	38	7.21	5.21	140.00 °F	117.60 °F	2	ECM	3/4	277	5.80	39	1,2,3
FPV	4-04	PRICE	FDC	40	10	1600	1600	513	0.57	28.90	68.60 °F	85.30 °F	30	0.81	1.74	140.00 °F	106.20 °F	2	ECM	3/4	277	5.80	34	1,2,3
FPV	4-05	PRICE	FDC	60	14	2270	2270	842	0.26	76.7	67.60 °F	90.90 °F	26	1.10	2.82	140.00 °F	98.80 °F	2	ECM	2 @ 3/4	277	9.80	37	1,2,3
FPV	4-06	PRICE	FDC	60	14	2160	2160	513	0.19	34.1	70.20 °F	82.50 °F	25	0.24	1.18	140.00 °F	90.40 °F	2	ECM	2 @ 3/4	277	9.80	36	1,2,3
FPV	4-07	PRICE	FDC	60	14	2270	2270	842	0.26	76.7	67.60 °F	90.90 °F	26	1.10	2.82	140.00 °F	98.80 °F	2	ECM	2 @ 3/4	277	9.80	37	1,2,3
FPV	4-08	PRICE	FDC	60	14	2160	2160	513	0.19	34.1	70.20 °F	82.50 °F	25	0.24	1.18	140.00 °F	90.40 °F	2	ECM	2 @ 3/4	277	9.80	36	1,2,3
FPV	4-09	PRICE	FDC	40	10	1740	1740	842	0.47	57.40	65.30 °F	95.70 °F	38	7.21	5.21	140.00 °F	117.60 °F	2	ECM	3/4	277	5.80	39	1,2,3
FPV	4-10	PRICE	FDC	40	10	1600	1600	513	0.57	28.90	68.60 °F	85.30 °F	30	0.81	1.74	140.00 °F	106.20 °F	2	ECM	3/4	277	5.80	34	1,2,3
FPV	4-11	PRICE	FDC	40	10	1300	1300	632	0.29	43.10	65.30 °F	95.90 °F	27	2.76	3.05	140.00 °F	111.40 °F	2	ECM	3/4	277	5.80	32	1,2,3
FPV	4-12	PRICE	FDC	40	10	1440	1440	411	0.48	23.10	69.30 °F	84.00 °F	34	0.42	1.20	140.00 °F	101.20 °F	2	ECM	3/4	277	5.80	35	1,2,3
FPV	4-16	PRICE	FDC	40	10	1600	1600	1240	0.41	52.00	59.50 °F	89.50 °F	36	3.31	3.38	140.00 °F	108.80 °F	2	ECM	3/4	277	5.80	37	1,2,3

NOTES:
1. MANUFACTURER PROVIDED STARTER / DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. REFER TO DETAIL 9/M-500.
3. REFER TO DETAIL 8/M-704 FOR CONTROLS.

AIR TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	CFM RANGE	PANEL SIZE (IN)	NECK SIZE (IN)	STYLE	INSTALLATION	FINISH	PRESSURE (IN.)	NC	THROW	NOTES
EA-1	PRICE	80 SERIES	0-200	6x6	-	EGG CRATE	CEILING TILE MOUNT	WHITE POWDER COAT	0.192	29	-	
EA-2	PRICE	80 SERIES	0-200	8x8	-	EGG CRATE	WALL MOUNT	WHITE POWDER COAT	0.047	< 15	-	
EA-3	PRICE	80 SERIES	200-700	12x12	-	EGG CRATE	CEILING TILE MOUNT	WHITE POWDER COAT	0.085	20	-	
EA-4	PRICE	80 SERIES	0-4000	24x24	-	EGG CRATE	CEILING LAY IN	WHITE POWDER COAT	0.192	40	-	
EC-1	PRICE	HDG 95 SERIES	0-7500	30x30	-	HEAVY DUTY GYM GRILLE	WALL MOUNT	WHITE POWDER COAT	0.164	47	-	0 DEG. DEFLECTION 3/4" BLADE SPACING
ES-1	PRICE	MSRRP	0-110	6x6	-	MAXIMUM SECURITY	SECURE CEILING / WALL MOUNT	WHITE POWDER COAT	0.125	19	-	
ES-2	PRICE	MSRRP	110-450	12x12	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.159	31	-	
ES-3	PRICE	MSRRP	450-800	16x16	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.160	34	-	
ES-4	PRICE	MSRRP	0-1850	24x24	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.167	39	-	
ES-P	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY STEEL CELL MANUFACTURER
RA-1	PRICE	80 SERIES	0-650	12x12	-	EGG CRATE	CEILING TILE MOUNT	WHITE POWDER COAT	0.071	17	-	
RA-2	PRICE	80 SERIES	650-2500	24x24	-	EGG CRATE	CEILING LAY IN	WHITE POWDER COAT	0.066	21	-	
RB-1	PRICE	530 SERIES	0-300	16x8	-	LOUVERED FACE	WALL MOUNT	WHITE POWDER COAT	0.044	17	-	45 DEG. DEFLECTION 3/4" BLADE SPACING
RB-2	PRICE	530 SERIES	300-500	16x16	-	LOUVERED FACE	DUCT MOUNT	WHITE POWDER COAT	0.044	19	-	45 DEG. DEFLECTION 3/4" BLADE SPACING
RB-3	PRICE	530 SERIES	500-2325	40x18	-	LOUVERED FACE	WALL MOUNT	WHITE POWDER COAT	0.069	28	-	45 DEG. DEFLECTION 3/4" BLADE SPACING
RS-1	PRICE	MSRRP	0-100	6x6	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.124	18	-	
RS-2	PRICE	MSRRP	100-200	9x9	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.124	23	-	
RS-3	PRICE	MSRRP	200-450	12x12	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.159	31	-	
RS-4	PRICE	MSRRP	450-800	16x16	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.160	34	-	
RS-5	PRICE	MSRRP	800-1500	24x24	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.111	30	-	
RS-6	PRICE	MSRRP	0-1300	32x16	-	MAXIMUM SECURITY	WALL MOUNT	WHITE POWDER COAT	0.084	23	-	CUSTOM SIZE
SA-1	PRICE	SCD	0-150	12x12	6	SQUARE CONE	CEILING TILE MOUNT	WHITE POWDER COAT	0.072	16	6	
SA-2	PRICE	SCD	0-180	24x24	6	SQUARE CONE	CEILING LAY IN	WHITE POWDER COAT	0.050	19	4	
SA-3	PRICE	SCD	180-315	24x24	8	SQUARE CONE	CEILING LAY IN	WHITE POWDER COAT	0.082	22	6	
SA-4	PRICE	SCD	315-500	24x24	10	SQUARE CONE	CEILING MOUNT	WHITE POWDER COAT	0.055	26	7	
SB-1	PRICE	SPD	0-180	24x24	6	SQUARE PLAQUE	CEILING LAY IN	WHITE POWDER COAT	0.050	19	4	
SB-2	PRICE	SPD	180-315	24x24	8	SQUARE PLAQUE	CEILING LAY IN	WHITE POWDER COAT	0.072	16	4	
SD-1	PRICE	CVD	0-60	8x8	-	CURVED VAN	CEILING TILE MOUNT	WHITE POWDER COAT	0.014	< 15	< 9	1-WAY AIR PATTERN
SE-1	PRICE	520 SERIES	0-250	12x4	-	LOUVERED FACE	WALL MOUNT	WHITE POWDER COAT	0.058	27	9	DOUBLE DEFLECTION 3/4" BLADE SPACING
SF-1	PRICE	RCDE	0-100	11 DIA.	6	ROUND CONE	DUCT MOUNT	WHITE POWDER COAT	0.016	< 15	3	
SG-1	PRICE	SDGE	0-150	10x4	-	LOUVERED FACE	DUCT MOUNT	WHITE POWDER COAT	0.119	16	13	22 DEG. SINGLE DEFLECTION
SL-1	PRICE	TBD8	0-250	48" LENGTH	-	LINEAR SLOT	CEILING MOUNT	WHITE POWDER COAT	0.150	29	16 H / 6 V	2 SLOT / 1" SLOT WIDTH
SS-1	PRICE	MSRRCD	0-100	6x6	-	MAXIMUM SECURITY	SURFACE MOUNT	WHITE POWDER COAT	0.148	21	25	
SS-2	PRICE	MSRRCD	0-180	8x8	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.010	23	8	
SS-3	PRICE	MSRRCD	0-300	12x12	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.074	28	13	
SS-4	PRICE	MSRRCD	300-500	15x15	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.118	25	14	4-WAY AIR PATTERN
SS-P	-	-	-	-	-	-	-	-	-	-	-	PROVIDED BY STEEL CELL MANUFACTURER
TA-1	PRICE	80 SERIES	0-100	6x6		EGG CRATE	CEILING TILE MOUNT	WHITE POWDER COAT	0.047	< 15	-	
TA-2	PRICE	80 SERIES	100-650	12x12	-	EGG CRATE	CEILING LAY IN	WHITE POWDER COAT	0.071	17	-	TRANSFER AIR GRILLE
TA-3	PRICE	80 SERIES	650-2500	24x24	-	EGG CRATE	CEILING LAY IN	WHITE POWDER COAT	0.066	20	-	TRANSFER AIR GRILLE
TA-4	PRICE	80 SERIES	650-2500	24x12	-	EGG CRATE	WALL MOUNT	WHITE POWDER COAT	0.132	23	-	TRANSFER AIR GRILLE
TA-5	PRICE	MSRRP	0-100	6x6		MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.124	18	-	
TA-6	PRICE	MSRRP	1000-400	12x12	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.124	26	-	TRANSFER AIR GRILLE
TA-7	PRICE	MSRRP	400-800	16x16	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.173	35	-	TRANSFER AIR GRILLE
TA-8	PRICE	MSRRP	800-1600	24x24	-	MAXIMUM SECURITY	SECURE CEILING MOUNT	WHITE POWDER COAT	0.124	33	-	TRANSFER AIR GRILLE

VAV SHUT-OFF BOX TYPE

TAG		MANUFACTURER	MODEL	UNIT SIZE	AIR FLOW (CFM) MAX PRIMARY	MIN PRIMARY	MAX AIR PRESSURE DROP (IN WG)	COIL CAPACITY (MBH)	AIR TEMPERATURE ENTERING	LEAVING	FLOW (GPM)	WATER PRESSURE DROP (FT WG)	WATER TEMPERATURE ENTERING	LEAVING	COIL ROWS	NC	NOTES
VAV	1-01	PRICE	SDV 5	12	1000	550	1.00	22.90	55 °F	93.60 °F	1.68	0.76	140 °F	112.40 °F	2	15	1,2
VAV	1-03	PRICE	SDV 5	10	760	435	1.00	18.30	55 °F	93.60 °F	1.48	0.49	140 °F	115.00 °F	2	15	1,2
VAV	1-04	PRICE	SDV 5	6	250	180	1.00	7.5	55 °F	92.60 °F	0.38	0.03	140 °F	107.30 °F	2	29	1,2
VAV	1-05	PRICE	SDV 5	8	540	370	1.00	15.5	55 °F	93.40 °F	1.29	0.22	140 °F	118.00 °F	2	15	1,2
VAV	1-06	PRICE	SDV 5	6	420	300	1.00	12.30	55 °F	93.40 °F	1.46	0.19	140 °F	123.00 °F	2	22	1,2
VAV	1-07	PRICE	SDV 5	8	500	280	1.00	11.60	55 °F	93.40 °F	0.88	0.16	140 °F	113.50 °F	2	22	1,2
VAV	1-08	PRICE	SDV 5	12	1000	690	1.00	28.90	55 °F	93.70 °F	2.65	1.71	140 °F	117.90 °F	2	15	1,2
VAV	1-09	PRICE	SDV 5	6	420	200	1.00	8.40	55 °F	93.40 °F	0.64	0.07	140 °F	113.70 °F	2	28	1,2
VAV	1-10	PRICE	SDV 5	8	500	230	1.00	9.6	55 °F	93.70 °F	0.60	0.09	140 °F	109.40 °F	2	29	1,2
VAV	1-11	PRICE	SDV 5	14	1550	760	1.00	31.60	55 °F	93.60 °F	2.12	0.52	140 °F	109.90 °F	2	15	1,2
VAV	1-12	PRICE	SDV 5	10	800	390	1.00	16.5	55 °F	93.90 °F	1.24	0.36	140 °F	113.00 °F	2	15	1,2
VAV	1-13	PRICE	SDV 5	6	330	290	1.00	12.00	55 °F	93.30 °F	1.37	0.17	140 °F	122.30 °F	2	22	1,2
VAV	1-14	PRICE	SDV 5	8	460	220	1.00	9.10	55 °F	93.40 °F	0.59	0.09	140 °F	108.90 °F	2	28	1,2
VAV	1-16	PRICE	SDV 5	6	300	150	1.00	6.00	55 °F	93.40 °F	0.36	0.03	140 °F	107.10 °F	2	28	1,2
VAV	1-17	PRICE	SDV 5	12	1350	660	1.00	27.4	55 °F	93.20 °F	2.31	1.35	140 °F	116.00 °F	2	15	1,2
VAV	1-18	PRICE	SDV 5	10	840	465	1.00	19.40	55 °F	93.50 °F	1.64	0.59	140 °F	116.10 °F	2	15	1,2
VAV	1-19	PRICE	SDV 5	8	790	390	1.00	17.4	55 °F	93.60 °F	0.98	0.18	140 °F	114.80 °F	2	22	1,2
VAV	1-20	PRICE	SDV 5	6	390	200	1.00	8.30	55 °F	93.30 °F	0.62	0.06	140 °F	113.20 °F	2	28	1,2
VAV	1-21	PRICE	SDV 5	8	600	300	1.00	12.5	55 °F	93.50 °F	0.94	0.18	140 °F	114.30 °F	2	22	1,2
VAV	1-22	PRICE	SDV 5	12	900	550	1.00	22.90	55 °F	93.40 °F	1.25	0.75	140 °F	111.70 °F	2	21	1,2
VAV	1-23	PRICE	SDV 5	6	420	300	1.00	12.30	55 °F	93.30 °F	1.46	1.35	140 °F	123.00 °F	2	15	1,2
VAV	1-26	PRICE	SDV 5	8	550	320	1.00	13.10	55 °F	93.30 °F	1.11	0.18	140 °F	116.10 °F	2	15	1,2
VAV	1-27	PRICE	SDV 5	6	290	150	1.00	6.30	55 °F	93.40 °F	0.40	0.17	140 °F	108.30 °F	2	22	1,2
VAV	1-28	PRICE	SDV 5	8	530	300	1.00	12.50	55 °F	93.30 °F	1.01	1.35	140 °F	115.10 °F	2	15	1,2
VAV	1-29	PRICE	SDV 5	6	280	150	1.00	6.30	55 °F	93.40 °F	0.40	1.35	140 °F	108.30 °F	2	15	1,2
VAV	2-01	PRICE	SDV 5	6	700	500	1.00	19.70	55 °F	91.30 °F	1.53	0.52	140 °F	114.00 °F	2	15	1,2
VAV	2-05	PRICE	SDV 5	8	450	225	1.00	9.40	55 °F	93.20 °F	0.61	0.08	140 °F	109.20 °F	2	20	1,2
VAV	2-06-A	PRICE	SDV 5	16	1800	900	1.00	38.0	55 °F	102.20 °F	2.53	0.75	140 °F	109.50 °F	2	15	1,2
VAV	2-06-B	PRICE	SDV 5	16	1800	900	1.00	38.0	55 °F	102.20 °F	2.53	0.75	140 °F	109.50 °F	2	15	1,2
VAV	2-06-C	PRICE	SDV 5	16	1800	900	1.00	38.0	55 °F	102.20 °F	2.53	0.75	140 °F	109.50 °F	2	15	1,2
VAV	2-06-D	PRICE	SDV 5	16	1800	900	1.00	38.0	55 °F	102.20 °F	2.53	0.75	140 °F	109.50 °F	2	15	1,2
VAV	2-10	PRICE	SDV 5	8	530	265	1.00	11.10	55 °F	93.30 °F	0.81	0.14	140 °F	112.40 °F	2	22	1,2
VAV	2-11	PRICE	SDV 5	16	2080	1030	1.00	43.1	55 °F	93.60 °F	1.82	0.48	140 °F	106.60 °F	2	15	1,2
VAV	2-13	PRICE	SDV 5	10	520	260	1.00	13.20	55 °F	102.70 °F	3.08	1.07	140 °F	111.70 °F	2	15	1,2
VAV	2-14	PRICE	SDV 5	6	400	200	1.00	8.40	55 °F	94.20 °F	0.66	0.07	140 °F	114.50 °F	2	28	1,2
VAV	2-15	PRICE	SDV 5	8	530	260	1.00	10.8	55 °F	93.20 °F	0.70	0.10	140 °F	110.60 °F	2	21	1,2
VAV	2-16	PRICE	SDV 5	6	320	160	1.00	6.70	55 °F	93.40 °F	0.44	0.03	140 °F	109.30 °F	2	25	1,2
VAV	2-17	PRICE	SDV 5	10	670	400	1.00	16.7	55 °F	93.40 °F	1.24	0.36	140 °F	112.70 °F	2	15	1,2
VAV	2-18	PRICE	SDV 5	10	410	290	1.00	12.30	55 °F	94.70 °F	1.62	0.52	140 °F	124.70 °F	2	15	1,2
VAV	3-13	PRICE	SDV 5	10	700	330	1.00	13.7	55 °F	93.30 °F	0.85	0.19	140 °F	108.30 °F	2	15	1,2
VAV	3-14	PRICE	SDV 5	8	500	230	1.00	15.70	55 °F	99.70 °F	2.80	1.77	140 °F	128.70 °F	2	15	1,2
VAV	3-15	PRICE	SDV 5	14	1000	500	1.00	32.80	55 °F	99.90 °F	2.83	0.65	140 °F	116.50 °F	2	15	1,2
VAV	4-13	PRICE	SDV 5	10	700	330	1.00	13.7	55 °F	93.30 °F	0.85	0.19	140 °F	108.30 °F	2	15	1,2
VAV	4-14	PRICE	SDV 5	8	500	230	1.00	15.7	55 °F	99.70 °F	2.80	1.77	140 °F	128.70 °F	2	15	1,2
VAV	4-15	PRICE	SDV 5	14	1000	500	1.00	32.8	55 °F	99.90 °F	2.83	0.65	140 °F	116.50 °F	2	15	1,2

NOTES:
1. REFER TO DETAIL 9/M-500.
2. REFER TO DETAIL 9/M-704 FOR CONTROLS.

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE

TAG		MANUFACTURER	MODEL	SIZE	SERVING	MINIMUM OUTSIDE AIR (CFM)	WEIGHT (LBS.)	COOLING GROSS TOTAL CAPACITY (MBH)	GROSS SENSIBLE CAPACITY (MBH)	NET TOTAL CAPACITY	NET SENSIBLE CAPACITY	ENTERING AIR TEMPERATURE DB	WB	LEAVING AIR TEMPERATURE DB	WB	HEATING FUEL TYPE	INPUT (MBH)	OUTPUT (MBH)	LEAVING AIR TEMPERATURE WB	DB	ELECTRICAL DATA FAN HP	VOLTAGE	PHASE	HZ	MCA	FLA	MFS	NOTES
DOAS	1	TRANE	HORIZON (B/G Rev5)	B036	ELECTRICAL C1054	458	1305	43.4	23.2	42.8	22.7	95 °F	78 °F	53.2 °F	53.2 °F	NATURAL GAS	50	40	109.2 °F	72.5 °F	2.5	460	3	60	14.3	12.8	20	1,2,3,4,5,6,7
DOAS	2	TRANE	HORIZON (B/G Rev5)	B036	ELECTRICAL B2002	458	1305	43.4	23.2	42.8	22.7	95 °F	78 °F	53.2 °F	53.2 °F	NATURAL GAS	50	40	109.2 °F	72.5 °F	2.5	460	3	60	14.3	12.8	20	1,2,3,4,5,6,7

NOTES:
1. MANUFACTURER PROVIDED STARTER / DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. MANUFACTURER PROVIDED COMBINATION OUTDOOR AIR SENSOR.
3. MANUFACTURER PROVIDED SMOKE DETECTOR.
4. MANUFACTURER PROVIDED NON-FUSED DISCONNECT SWITCH WITH 115 VOLT OUTLET.
5. MANUFACTURER PROVIDED CONDENSER HAILGUARD.
6. PROVIDE REMOTE LOCATED DIGITAL DISPLAY PROGRAMMABLE CONTROLLER.
7. SEE DETAIL 4/M-500.

4 PIPE FAN COIL UNIT SCHEDULE

TAG		MANUFACTURER	MODEL #	AREA SERVED	TYPE	CFM	EXTERNAL S.P. (IN WC)	FILTER	COOLING COIL CAPACITY (MBH) TOTAL	SENSIBLE	ENTERING AIR TEMPERATURE DRY BULB	WET BULB	LEAVING AIR TEMPERATURE DRY BULB	WET BULB	ROW QUANTITY	WATER TEMPERATURE ENTERING	LEAVING	WATER FLOW (GPM)	MAX WATER PRESSURE DROP (FT WC)
FCU	1	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	2	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	3	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	4	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	5	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	6	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	7	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	8	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	9	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	10	TRANE	FCB*080	EXTERIOR CHASE	FLOOR	438	-	1" THROWAWAY	7.02	7.02	80.00 °F	67.00 °F	63.94 °F	62.07 °F	2	44.00 °F	58.00 °F	1.01	0.43
FCU	11	TRANE	BCHD*072	PENTHOUSE	HORIZONTAL	1200	0.5	1" THROWAWAY	40.49	31.01	80.00 °F	67.00 °F	56.56 °F	56.26 °F	4	44.00 °F	58.00 °F	5.77	1.25
FCU	12	TRANE	BCHD*072	PENTHOUSE	HORIZONTAL	1200	0.5	1" THROWAWAY	40.49	31.01	80.00 °F	67.00 °F	56.56 °F	56.26 °F	4	44.00 °F	58.00 °F	5.77	1.25
FCU	13	TRANE	FDC*080	MECHANICAL ROOM	HORIZONTAL	659	-	1" THROWAWAY	16.09	12.81	80.00 °F	67.00 °F	59.68 °F	58.41 °F	3	44.00 °F	58.00 °F	2.35	2.57
FCU	14	TRANE	FDC*080	MECHANICAL ROOM	HORIZONTAL	659	-	1" THROWAWAY	16.09	12.81	80.00 °F	67.00 °F	59.68 °F	58.41 °F	3	44.00 °F	58.00 °F	2.35	2.57
FCU	15	TRANE	FCH*100	VESTIBULE (B1000)	VERTICAL RECESSED	893	-	1" THROWAWAY	19.61	16.25	80.00 °F	67.00 °F	62.01 °F	59.78 °F	2	44.00 °F	58.00 °F	2.86	3.49

TAG		HEATING COIL CAPACITY (MBH)	AIR TEMPERATURE ENTERING DRY BULB	LEAVING DRY BULB	ROW QUANTITY	WATER TEMPERATURE ENTERING	LEAVING	WATER FLOW (GPM)	MAX WATER PRESSURE DROP (FT WC)	ELECTRICAL DATA HP	VOLTAGE	PHASE	Hz	FLA	MCA	FUSE (AMP)	EXTERNAL DIMENSIONS LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	NOTES
FCU	1	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.188	1,2,3
FCU	2	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.188	1,2,3
FCU	3	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.188	1,2,3
FCU	4	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.118	1,2,3
FCU	5	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.188	1,2,3
FCU	6	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.118	1,2,3
FCU	7	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.118	1,2,3
FCU	8	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.118	1,2,3
FCU	9	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.118	1,2,3
FCU	10	11.36	60.00 °F	84.29 °F	1	140 °F	100 °F	0.57	0.54	0.22	115	1	60	3.1	3.88	15	56.25	9.875	25.118	1,2,3
FCU	11	43.50	60.00 °F	93.43 °F	2	140 °F	100 °F	2.18	0.11	0.5	115	1	60	7.46	9.32	15	41.57	48.000	22.000	1,2,3
FCU	12	43.50	60.00 °F	93.43 °F	2	140 °F	100 °F	2.18	0.11	0.5	115	1	60	7.46	9.32	15	41.57	48.000	22.000	1,2,3
FCU	13	13.02	60.00 °F	80.57 °F	1	140 °F	100 °F	0.65	0.68	0.22	115	1	60	3.1	3.88	15	56.00	26.00	10.00	1,2,3
FCU	14	13.02	60.00 °F	80.57 °F	1	140 °F	100 °F	0.65	0.68	0.22	115	1	60	3.1	3.88	15	56.00	26.00	10.00	1,2,3
FCU	15	40.51	60.00 °F	101.85 °F	2	140 °F	100 °F	2.02	9.62	0.13	115	1	60	-	6.07	15	78.00	10.00	30.00	1,2,3,4

NOTES:
1. MANUFACTURER PROVIDED STARTER AND DISCONNECT SWITCH.
2. REFER TO DETAILS 6/M-501 AND 8/M-501.
3. REFER TO 4/M-704 FOR CONTROLS.
4. PROVIDE CONDENSATE PUMP.

EXPANSION TANK SCHEDULE

TAG		MANUFACTURER	MODEL	SYSTEM SERVED	TANK FILL TEMPERATURE	TANK MAX. TEMPERATURE	TANK FILL PRESSURE (PSI)	TANK MAX PRESSURE (PSI)	REQUIRED TANK VOLUME (GAL.)	REQUIRED ACCEPTANCE VOLUME (GAL)	TANK ORIENTATION	TANK TYPE	NOTES
ET	1	BELL & GOSSETT	D-80	HEATING HOT WATER	55 °F	160 °F	12	44	38	20.8	HORIZONTAL	DIAPHRAGM	1,2
ET	2	BELL & GOSSETT	D-40	CHILLED WATER	40 °F	60 °F	12	52	10	5.5	HORIZONTAL	DIAPHRAGM	1,2

NOTES:
1. REFER TO DETAILS 1/M-502 AND 2/M-502.
2. TANK TO BE ASME RATED.

AIR SEPARATOR SCHEDULE

TAG		MANUFACTURER	MODEL	FLOW (GPM)	MAX PRESSURE DROP (FT)	SYSTEM SERVED	NOTES
AS	1	BELL & GOSSETT	CRS-4F	140	0.35	HEATING HOT WATER	1,2
AS	2	BELL & GOSSETT	CRS-8F	535	0.35	CHILLED WATER	1,2

NOTES:
1. COALESCING, STANDARD VELOCITY, REMOVABLE MEDIUM.
2. REFER TO DETAILS 1/M-502 AND 2/M-502.

INDIRECT FIRED GAS MAKE-UP AIR UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	SERVING	WEIGHT (LBS)	AIR FLOW DATA CFM	E.S.P.	E.A.T.	L.A.T.	GAS DATA FUEL TYPE	INPUT (MBH)	OUTPUT (MBH)	MIN. GAS PRESSURE (IN. W.C.)	GAS INLET CONNECTION (IN)	ELECTRICAL DATA VOLTAGE	PHASE	H.P.	F.L.A.	NOTES
MAU	1	TRANE	OADG 000 A3	LAUNDRY	2023	3750	1.00	0 °F	60 °F	NATURAL GAS	300	240	7	1.5	460	3	2	7.1	1,2,3

NOTES:
1.MANUFACTURER PROVIDED VFD AND DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. MANUFACTURER PROVIDED ROOF CURB.
3. INTERLOCK WITH DRYERS.

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

JOSHUA R. APLING REGISTERED STATE OF INDIANA PROFESSIONAL ENGINEER
6/5/19

NO.	REVISION	DATE

DRAWN: DWB CHK'D: JRA
DESIGNED: DWB
APPRV'D: JRA
DATE: September 5, 2019
PROJECT NUMBER
1663-1190-90

A NEW
VIGO COUNTY SECURITY CENTER
TERRE HAUTE, INDIANA

MECHANICAL EQUIPMENT SCHEDULES

DRAWING NUMBER
M-601
MECHANICAL

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