TAYLORSVILLE NORTH BOUND REST AREA
INDIANA DEPARTMENT OF TRANSPORTATION
DRAWING SET #1 NB TRUCKER TOILETS BUILDING (Specifications Volumes 2, 3)

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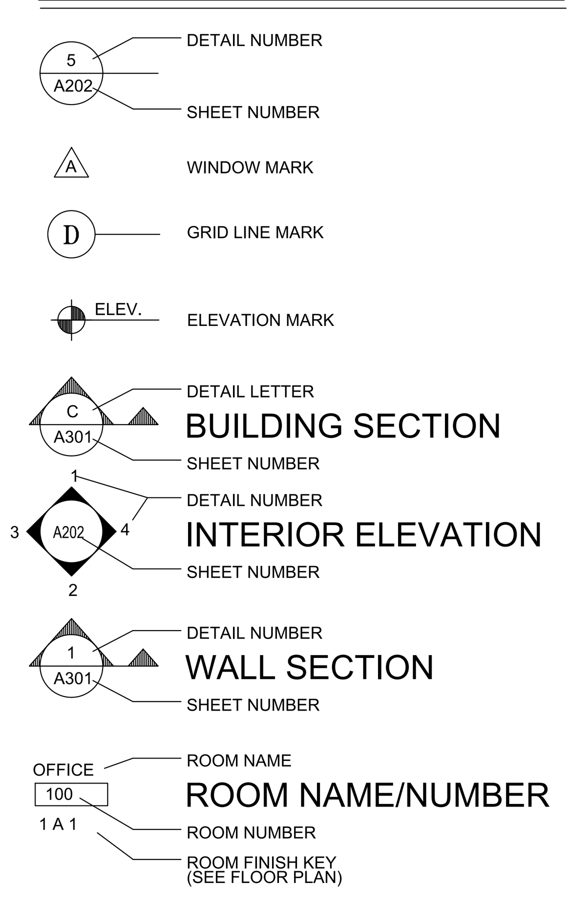
SYMBOLS



SHEET INDEX DRAWING SET # 1

TR - TRUCKER TOILETS BUILDING

95% CONTRACT DOCUMENTS
SEPTEMBER 2024

Certified by:

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PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE NB TRUCK PARKING
TAYLORSVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION INDOT

Revisions:

Project Number: 03003001-24-025-D1
Requisition Number: .
Account Number: .
Designer:
Drawing Date: SEP 2024
Drafter:
Drawing Scale:
DAPW Approval:
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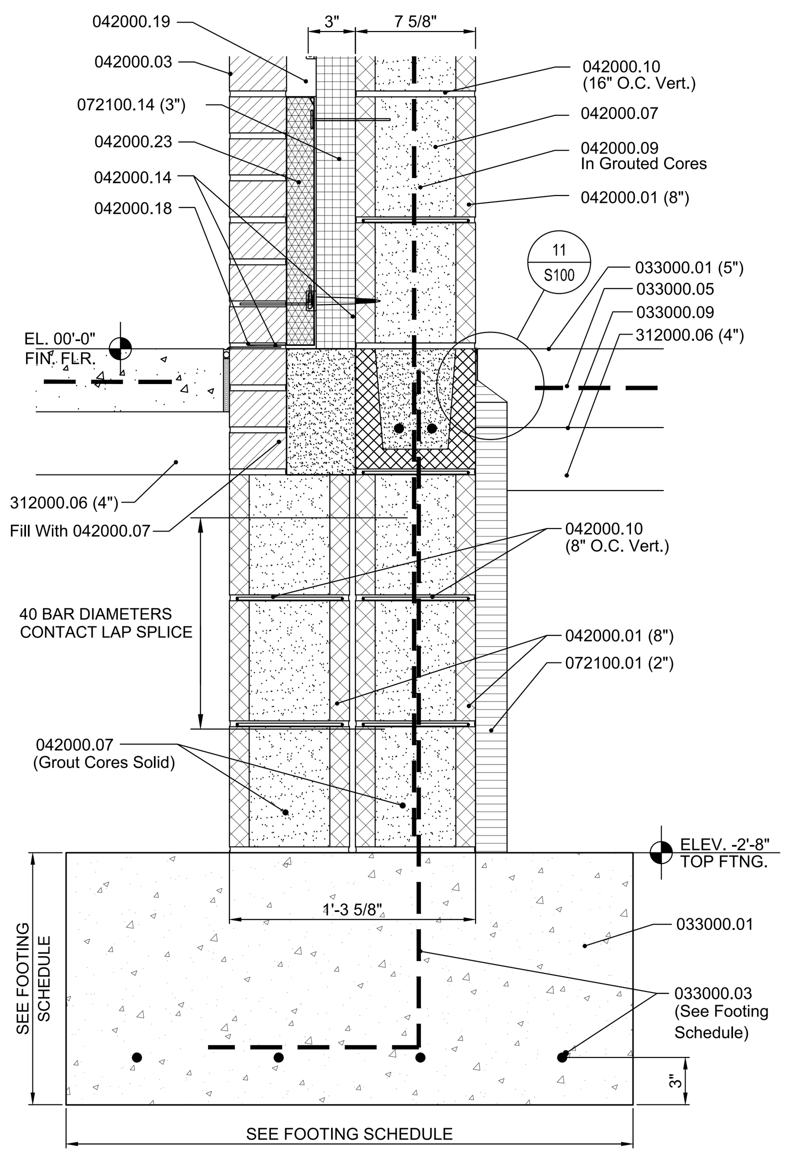
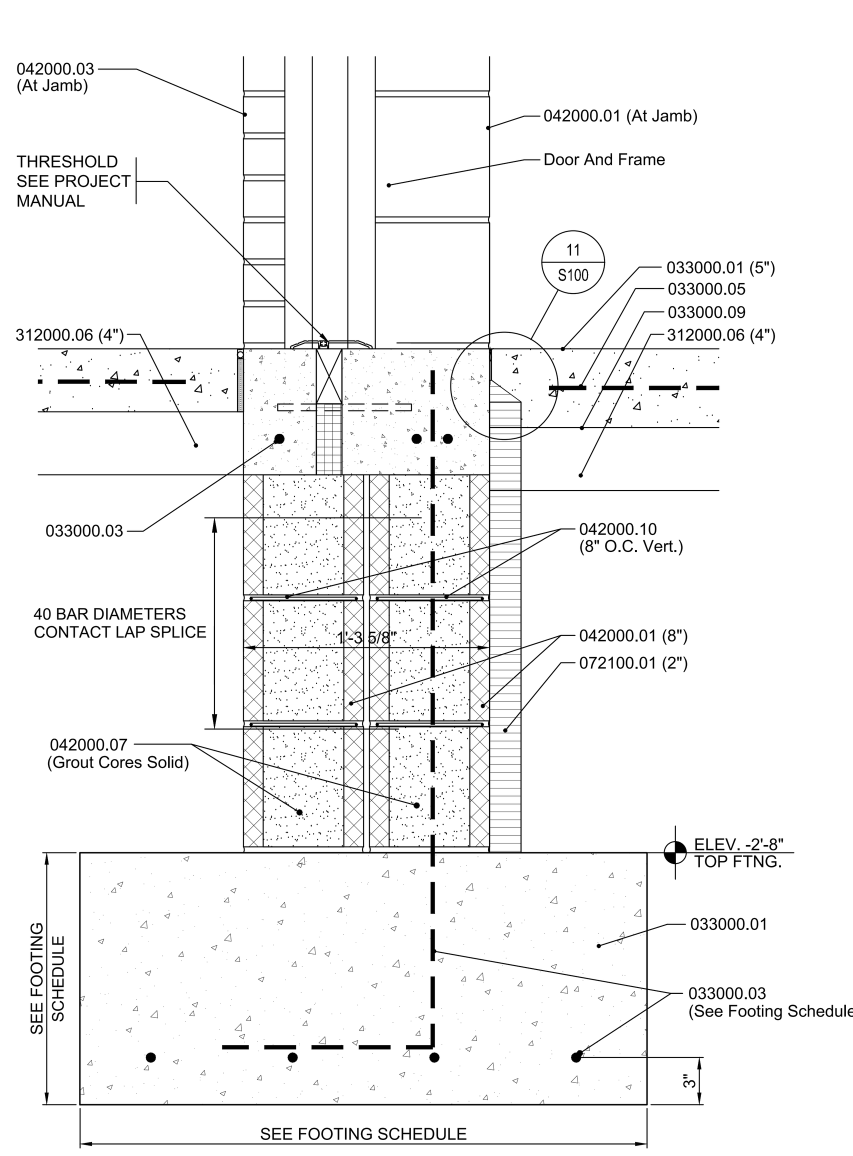
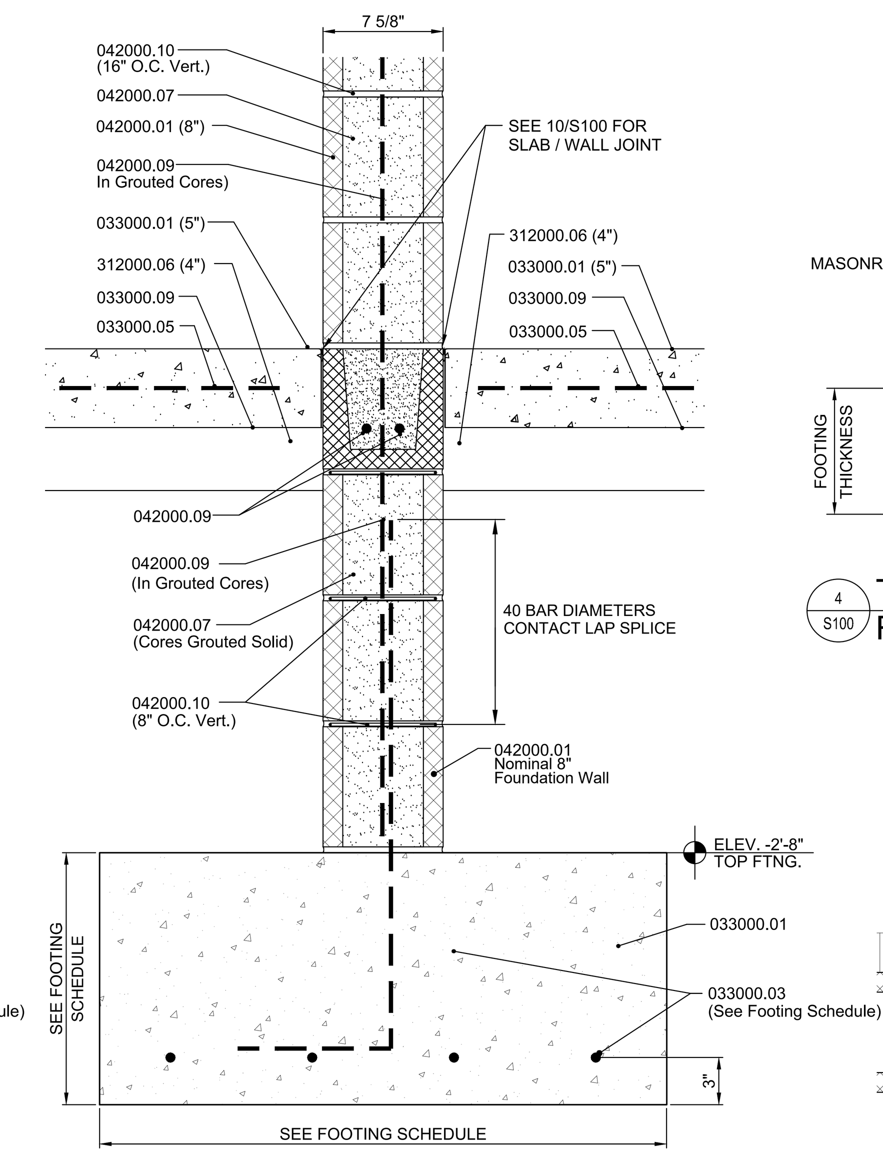
Sheet: 1 of 22



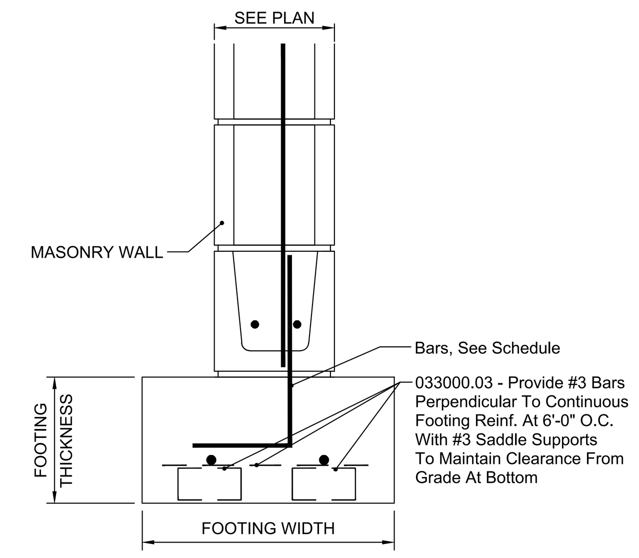
1 S100 TYPICAL EXTERIOR FOOTING 1 1/2"=1'-0"



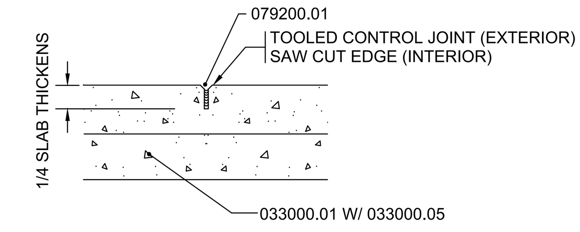
2 S100 EXTERIOR FOOTING AT OPENING 1 1/2"=1'-0"



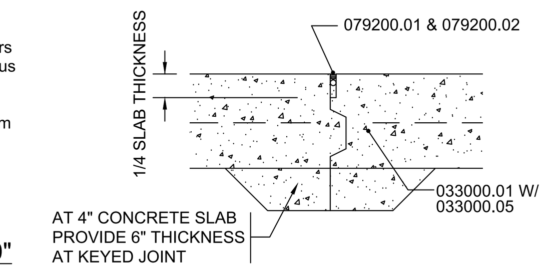
3 S100 INTERIOR FOOTING 1 1/2"=1'-0"



4 S100 TYPICAL FOOTING REBAR SUPPORTS 1 1/2"=1'-0"

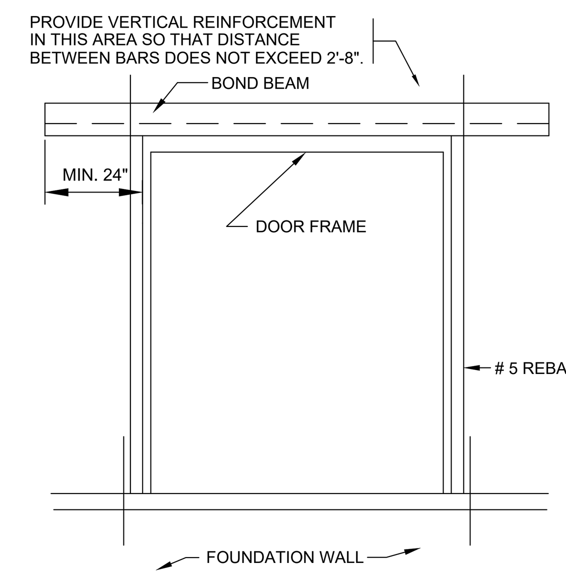


6 S100 CONC. SLAB CONTROL JOINT 1 1/2"=1'-0" C.J. = CONTROL JOINT



NOTE: PROVIDE KEYED JOINTS WHERE COLD JOINTS OCCUR

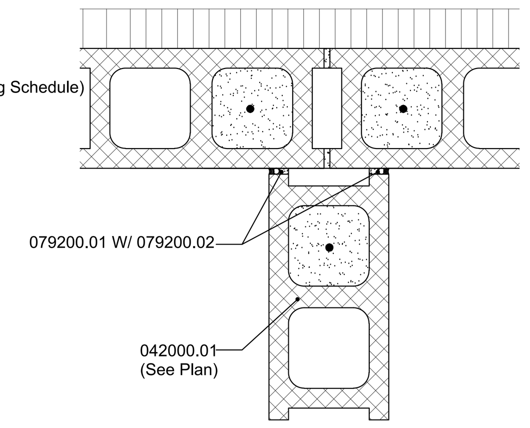
7 S100 CONC. SLAB KEYED JOINT 1 1/2"=1'-0" K.J. = KEYED JOINT



DOOR OPENING 3/8"=1'-0"

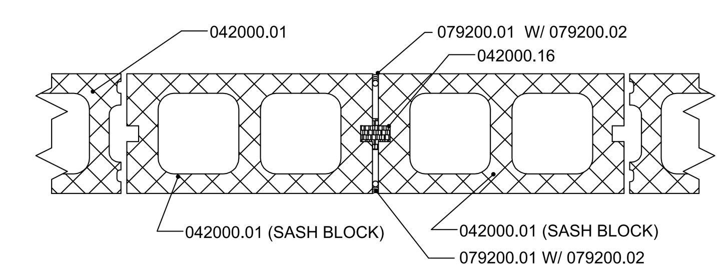
MATERIAL NOTES

033000.01	Cast-In-Place Concrete
033000.03	Reinforcing Bars
033000.05	Welded Wire Fabric
033000.09	Vapor Retarder
042000.01	Concrete Masonry Unit
042000.03	Brick
042000.07	Grout
042000.09	Reinforcing Steel
042000.10	Masonry Joint Reinforcement
042000.14	Embedded Flashing with Drip Edge
042000.16	Preformed Control-Joint Gasket
042000.18	Mesh Weep/Vent
042000.19	Cavity Drainage Material
042000.23	Screw-Attached, Masonry Veneer Anchor
072100.01	Extruded-Polystyrene Board Insulation
072100.14	Cavity Wall Insulation and Accessories
079200.01	Joint Sealant
079200.02	Joint Sealant Backing
312000.04	Engineered Fill
312000.06	Drainage Course
312000.14	Controlled Low Strength Material

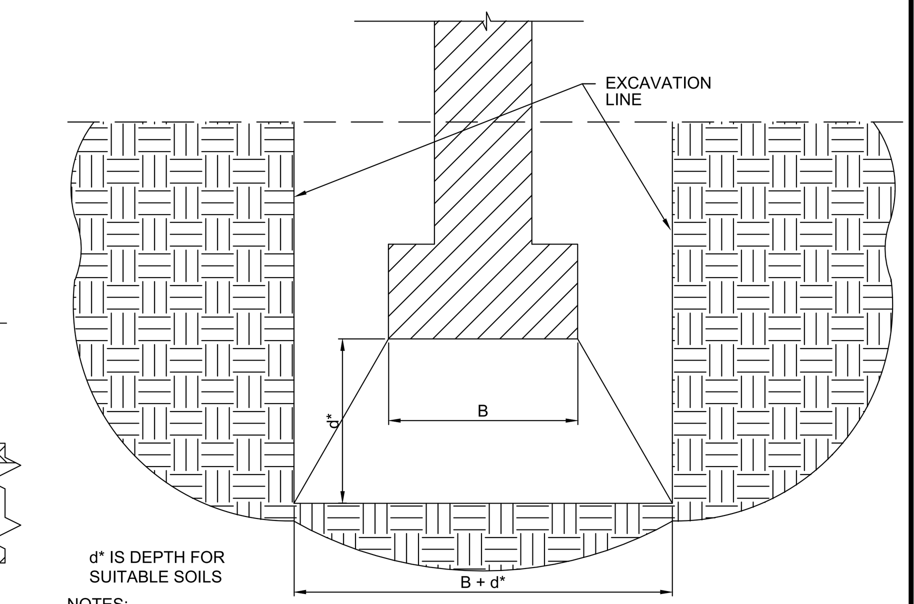


5 S100 TYPICAL DETAIL 1 1/2"=1'-0"

8 S100 NOT USED



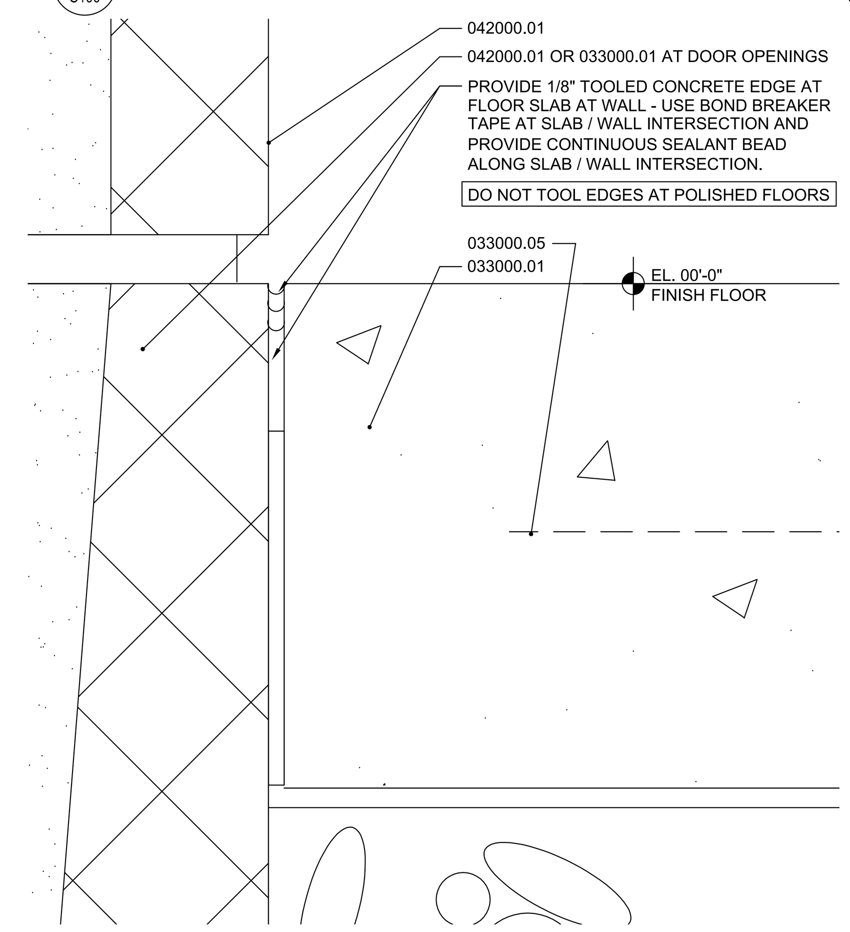
9 S100 MASONRY CONTROL JOINT 1 1/2"=1'-0" M.C.J. = MASONRY CONTROL JOINT



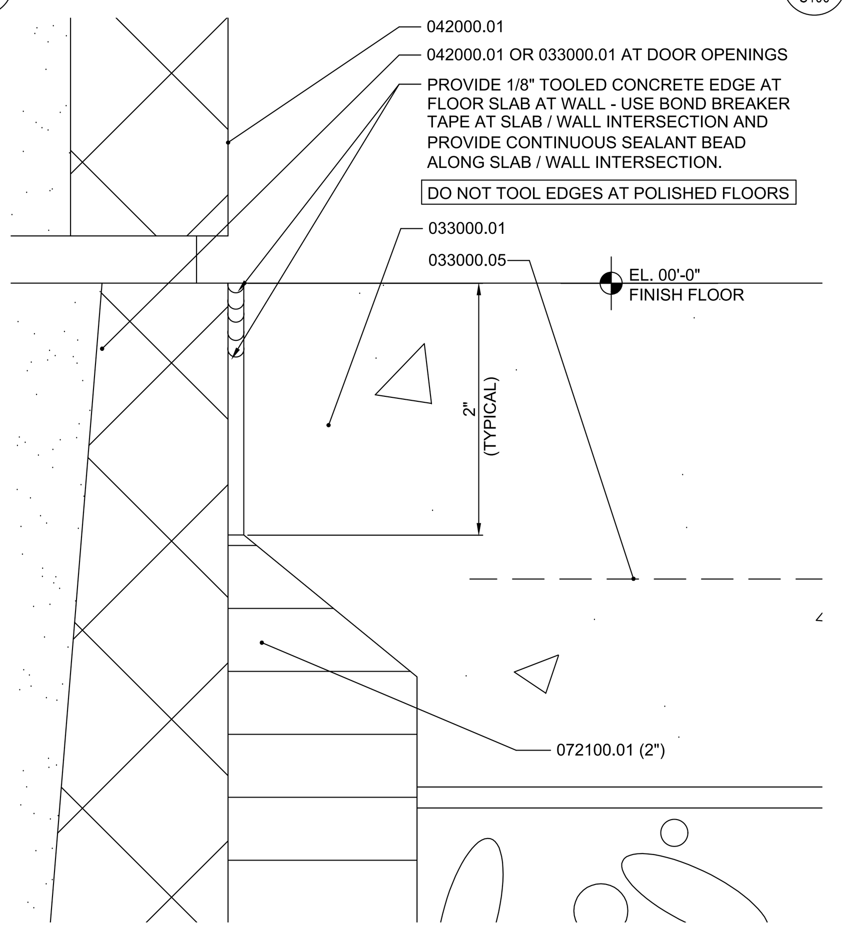
d" IS DEPTH FOR SUITABLE SOILS

NOTES:
1. EXCAVATE UNSUITABLE SOIL TO DEPTH "d."
2. IMPORT, PLACE, AND COMPACT #53 STONE BACKFILL. DEPTH OF STONE BACKFILL = 1/3 d OR 12", WHICHEVER IS GREATER.
3. IMPORT, PLACE, AND COMPACT STABILIZER BACKFILL FROM TOP OF #53 STONE BACKFILL TO BOTTOM OF FOOTINGS.

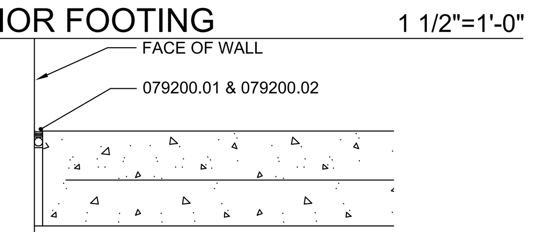
EXCAVATION/FILL OF UNSTABLE MATERIALS 3/4"=1'-0"



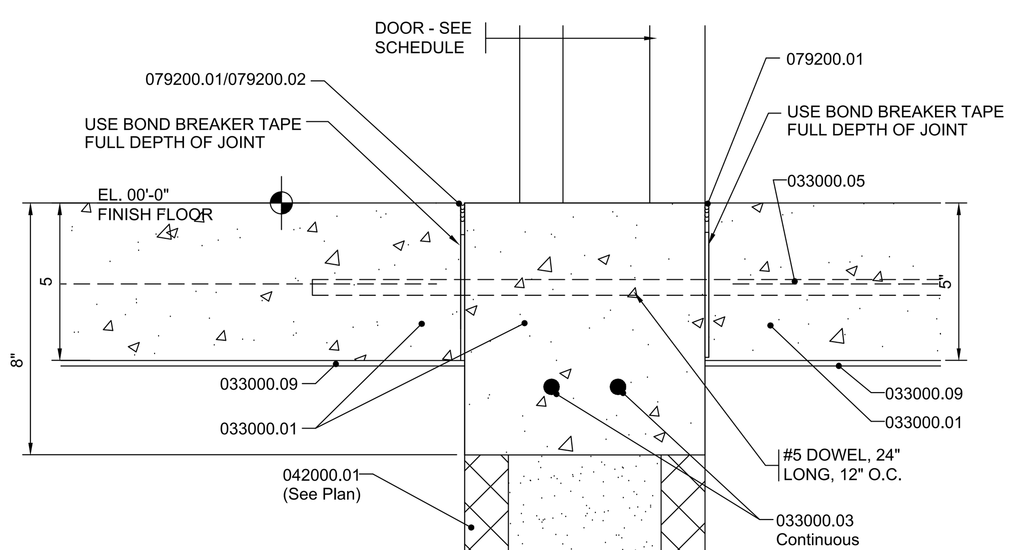
10 S100 TYPICAL INTERIOR FLOOR EDGE AT INTERIOR WALL FULL SIZE



11 S100 TYPICAL INTERIOR FLOOR EDGE AT EXTERIOR WALL FULL SIZE

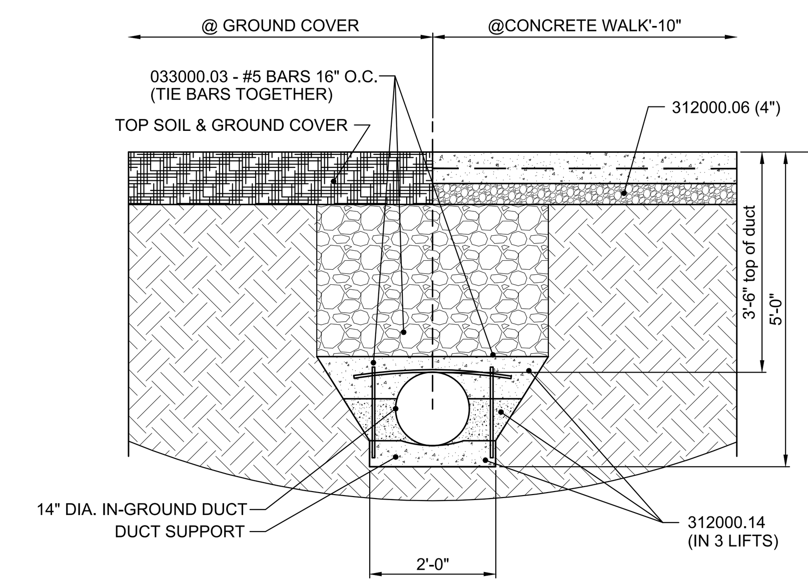


12 S100 CONC. SLAB EXPANSION JOINT AT WALL E.J. = EXPANSION JOINT 1 1/2"=1'-0"

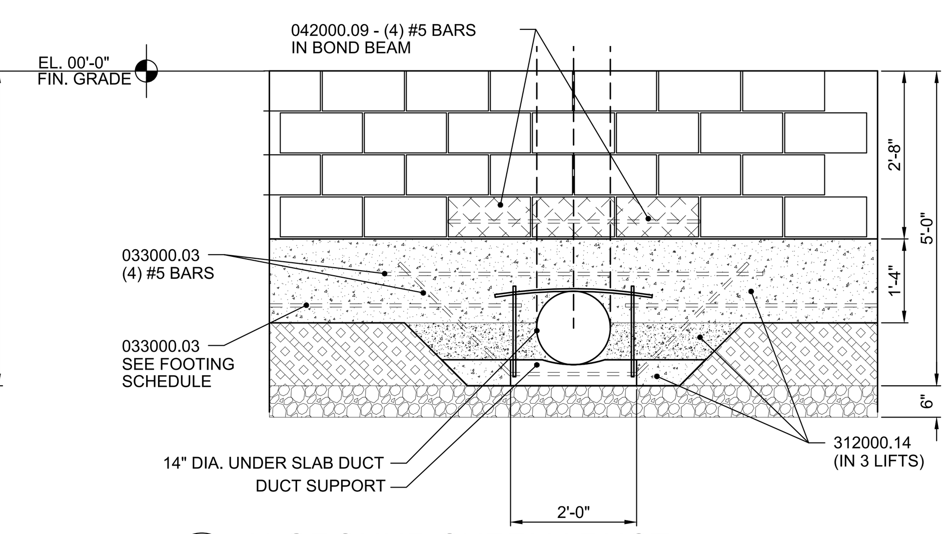


NOTE: DO NOT TOOL EDGES WHERE POLISHED CONCRETE FINISHING IS REQUIRED.

13 S100 TYPICAL DOOR THRESHOLD AT INTERIOR FOUNDATION WALL 3"=1'-0"



14 S100 IN-GROUND SUPPLY DUCT AT SIDEWALK AND GRADE 1/2"=1'-0"



15 S100 IN-GROUND SUPPLY DUCT AT FOUNDATION WALL 1/2"=1'-0"

FOOTING SCHEDULE

FOOTING MARK	SIZE (W x D)	REINFORCING
WF1	3'-0" W. x 16", CONT.	4 - # 5's CONT., 9" o.c.

NOTE! UNLESS OTHERWISE INDICATED, FOOTING REINFORCEMENT IS 3" FROM BOTTOM OF FOOTING.
WF = WALL FOOTING

BOND BEAM REINFORCING

UNLESS OTHERWISE INDICATED, ALL BOND BEAM REINFORCING AS FOLLOWS:
8" BOND BEAMS: 2 - #5 BARS, CONTINUOUS IN GROUTED CORES.

NOTE: ALL WALLS THAT EXTEND TO FOOTINGS ARE LATERAL FORCE RESISTING SYSTEM (LFRS) WALLS.

NOTE: TOOL ALL MASONRY JOINTS.

GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, FOOTINGS ARE CENTERED ON WALLS.
2. ALL PERIMETER WALLS IN ADDITION TO JOINT REINFORCING HAVE BOND BEAMS AS FOLLOWS: FOLLOWING LOCATIONS: AT FLOOR LEVEL, AT BEARING ELEVATIONS / TOP OF WALLS.
3. ALL INTERIOR LOAD-BEARING WALLS IN ADDITION TO JOINT REINFORCING HAVE BOND BEAMS AS FOLLOWS: TWO LOCATIONS: AT FLOOR LEVEL, AND AT BEARING ELEVATIONS / TOP OF WALLS.
4. ALL OTHER MASONRY WALLS HAVE JOINT REINFORCING AND BOND BEAMS AT FLOOR LEVEL AND TOP OF WALL.
5. BOND BEAMS: SEE SCHEDULE ON THIS SHEET BELOW.
6. ALL VERTICAL REINFORCING # 5 BARS 2'-8" O.C. IN GROUTED CORES.
7. PROVIDE FOOTING DOWELS FOR VERTICAL REINFORCEMENT.
8. TOP OF FOOTING = -2'-8" BELOW FINISHED FLOOR
9. ALL BACKFILL INSIDE BUILDING PERIMETER SHALL BE INDOT 53'S TO BOTTOM OF 4" DRAINAGE COURSE

NOTE: FINISH FLOOR ELEV.= 00'-0" REFERENCE SITE PLANS FINISH FLOOR ELEVATIONS.

SLAB REINFORCING

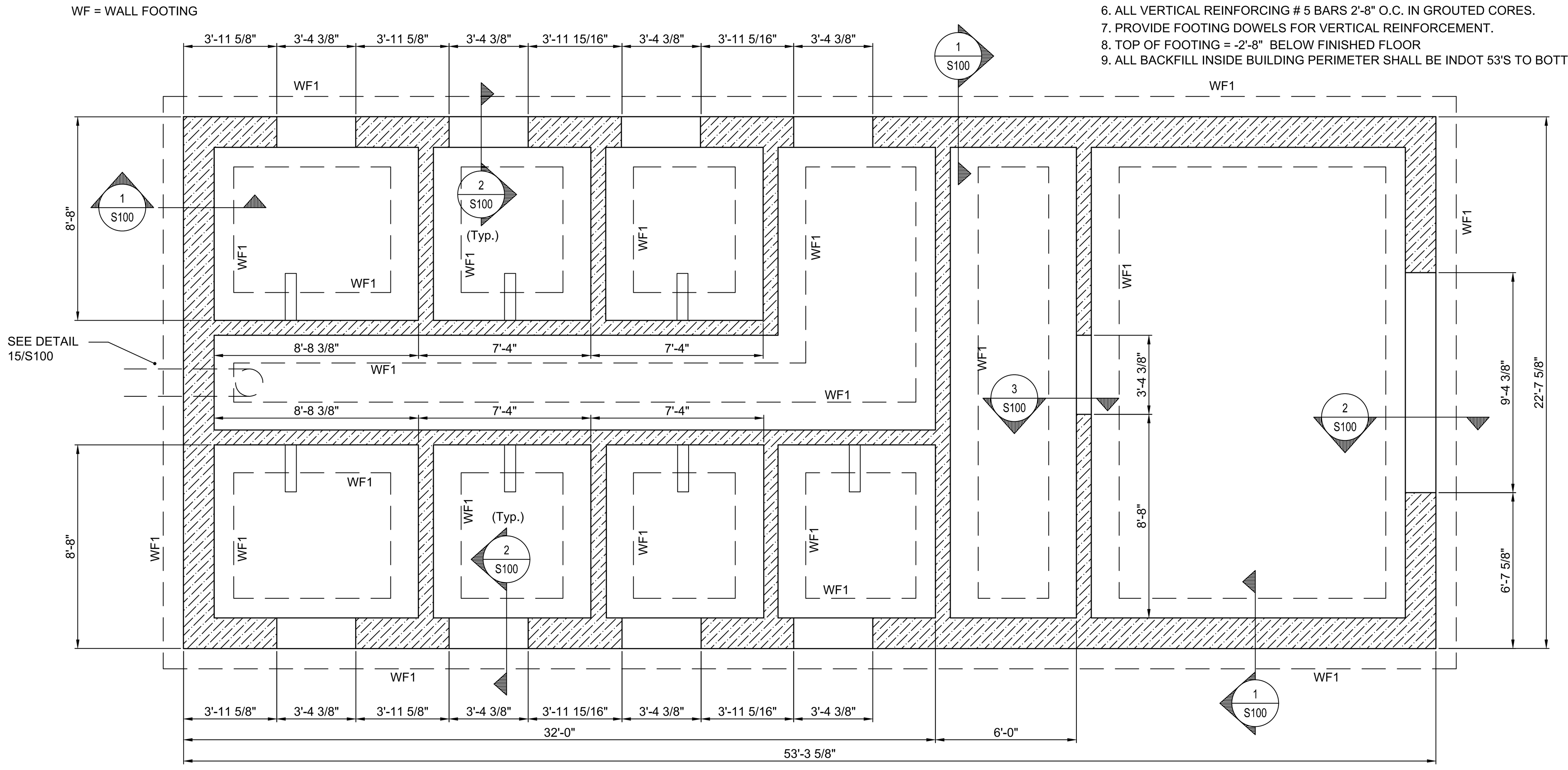
321313.01, EXTERIOR 6" SLABS, 6" APRON
321313.03, 6X6-W2.9 X W2.9
LOCATE AT CENTER THICKNESS OF SLAB

033000.01, 5" SLABS,
033000.05, 6X6-W2.9 X W2.9
LOCATE AT CENTER THICKNESS OF SLAB

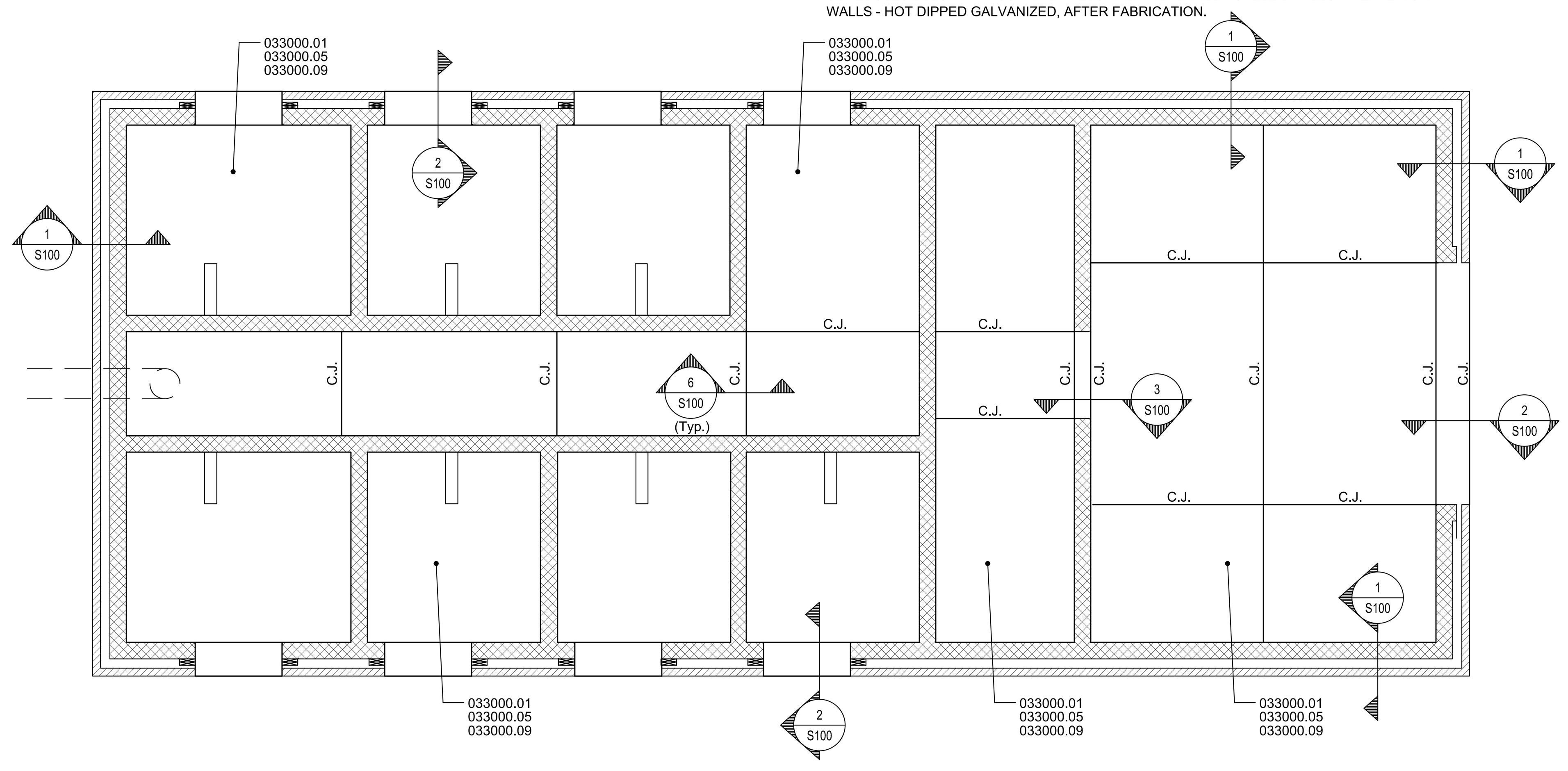
PROVIDE 4" (322000.06) CONSOLIDATED DRAINAGE COURSE UNDER ALL FLOOR SLABS.

MASONRY LINTEL SCHEDULE		
NOMINAL WALL THICKNESS	CLEAR SPAN	
	UP TO 6'-0"	6'-0" TO 10'-0"
8"	8" H. BOND BEAM W/ 2 - #5 BAR	
10"	8" H. BOND BEAM W/ 2 - #5 BAR	

UNLESS OTHERWISE INDICATED, PROVIDE LINTELS AT ALL OPENINGS IN ACCORDANCE WITH SCHEDULES BELOW. MASONRY LINTELS ARE PREFERRED. STEEL LINTELS AT EXTERIOR WALLS - HOT DIPPED GALVANIZED, AFTER FABRICATION.



FOOTING / FOUNDATION PLAN 1/4"=1'-0"



FLOOR CONTROL JOINT PLAN 1/4"=1'-0"

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Client Approval:
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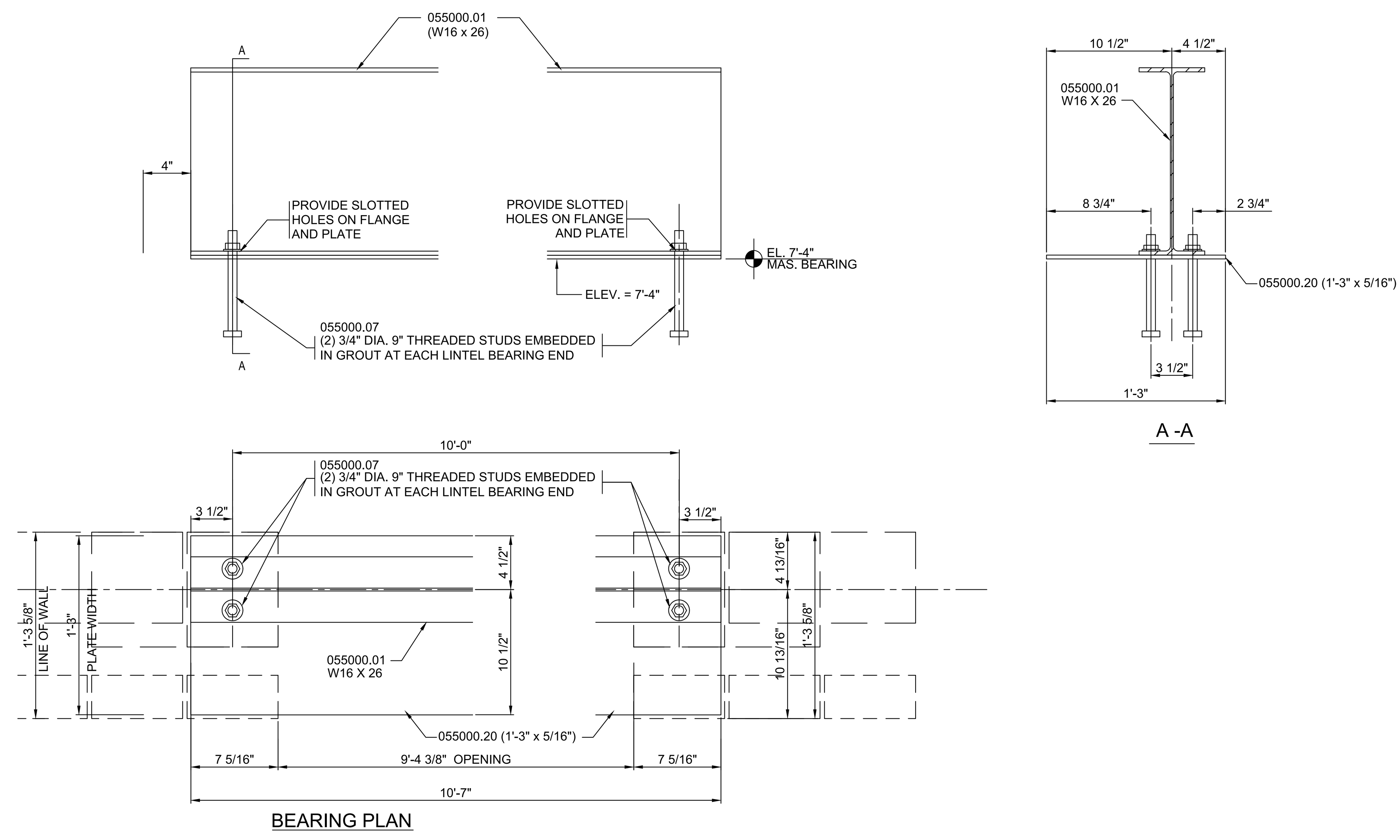
Drawing Number: S100
Sheet: 2 of 22

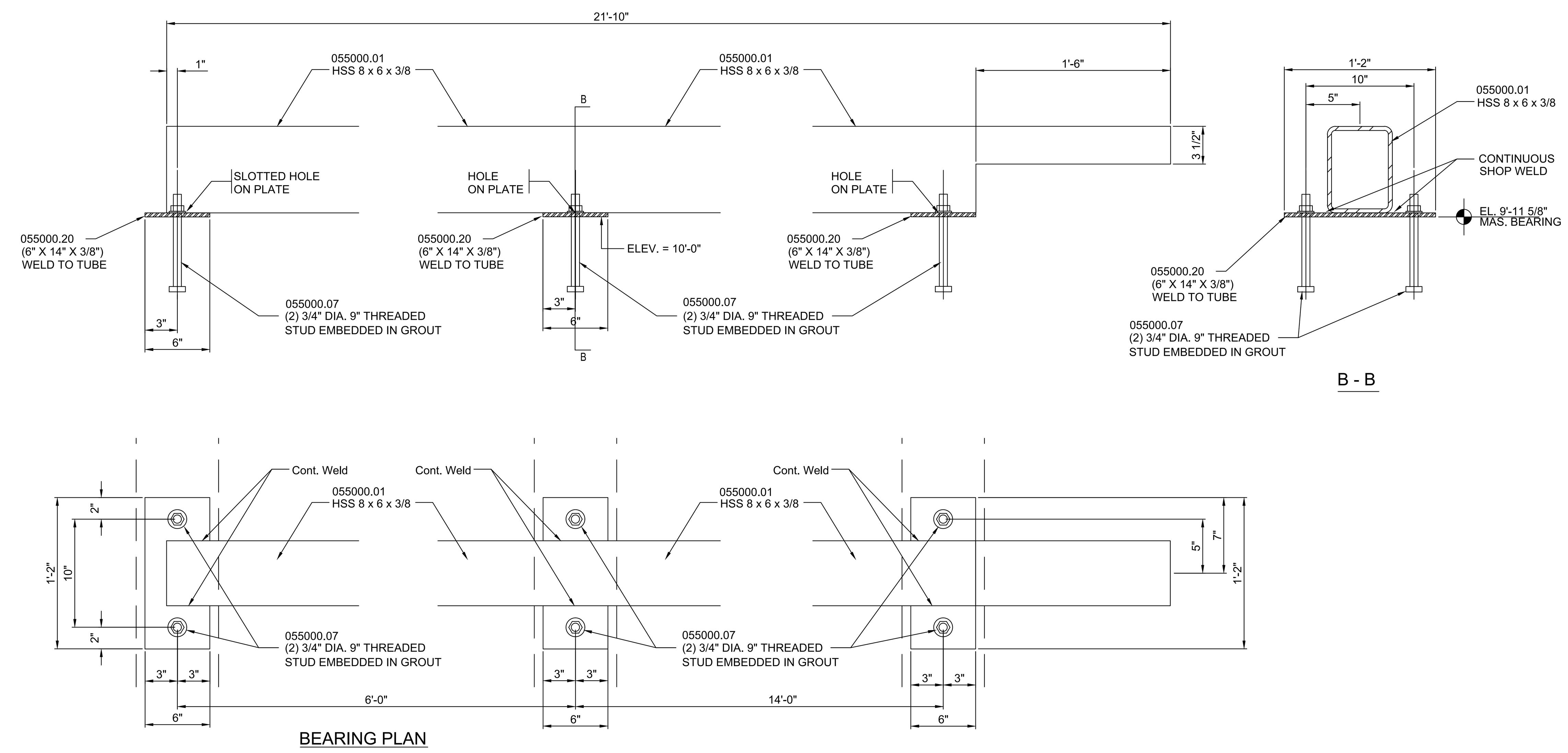
MATERIAL NOTES

055000.01	Steel (Size)
055000.07	Fasteners
055000.14	Loose Steel Angle
055000.20	Steel Plate
061516.01	Glued Laminated Wood Roof Decking
312000.04	Engineered Fill
312000.08	Soil Stabilization Course
312000.13	Base Stabilization Geotextile



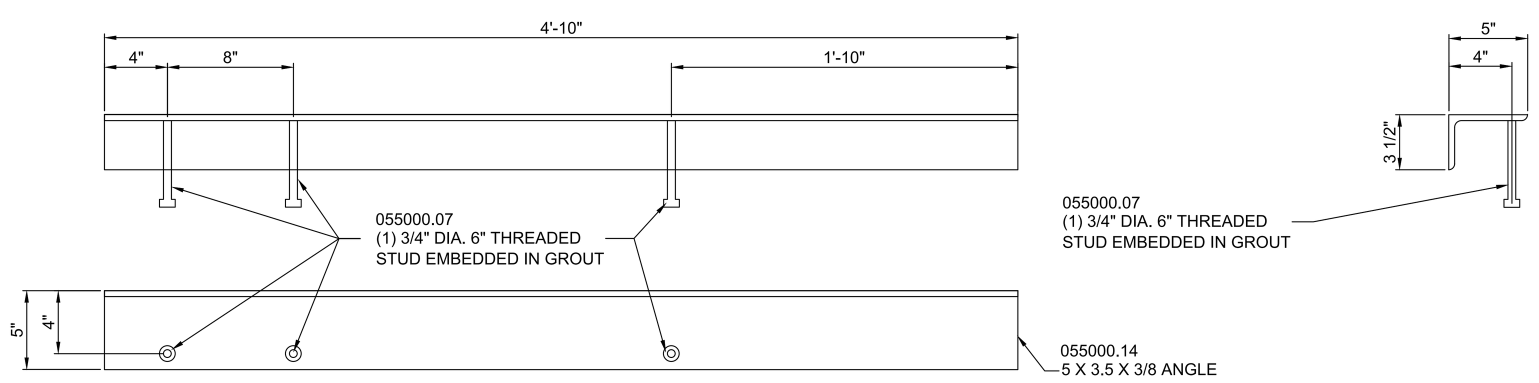
1 S101 W 16 x 26 BRNG. 1 1/2"=1'-0"

ALL STEEL COMPONENTS INDICATED IN THIS DETAIL SHALL BE GALVANIZED.



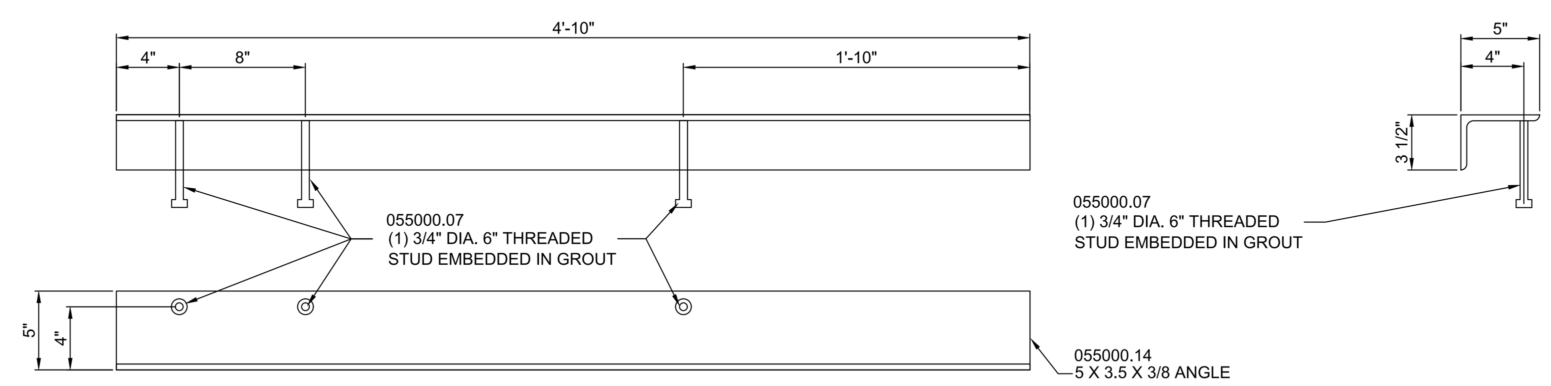
2 S101 HSS 8 x 6 x 3/8 1 1/2"=1'-0"

ALL STEEL COMPONENTS INDICATED IN THIS DETAIL SHALL BE GALVANIZED.



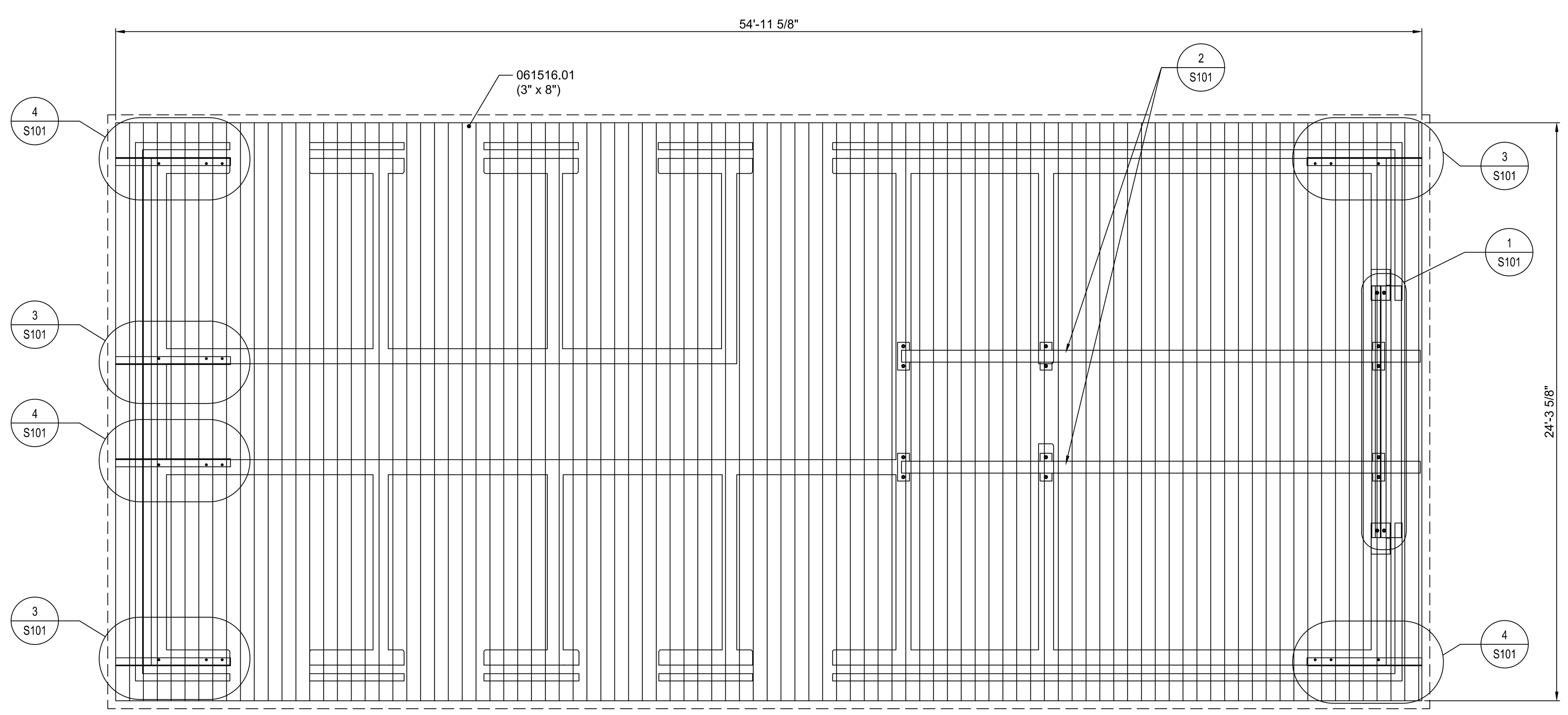
3 S101 SOFFIT ANGLE SUPPORT 1 1/2"=1'-0"

ALL STEEL COMPONENTS INDICATED IN THIS DETAIL SHALL BE GALVANIZED.

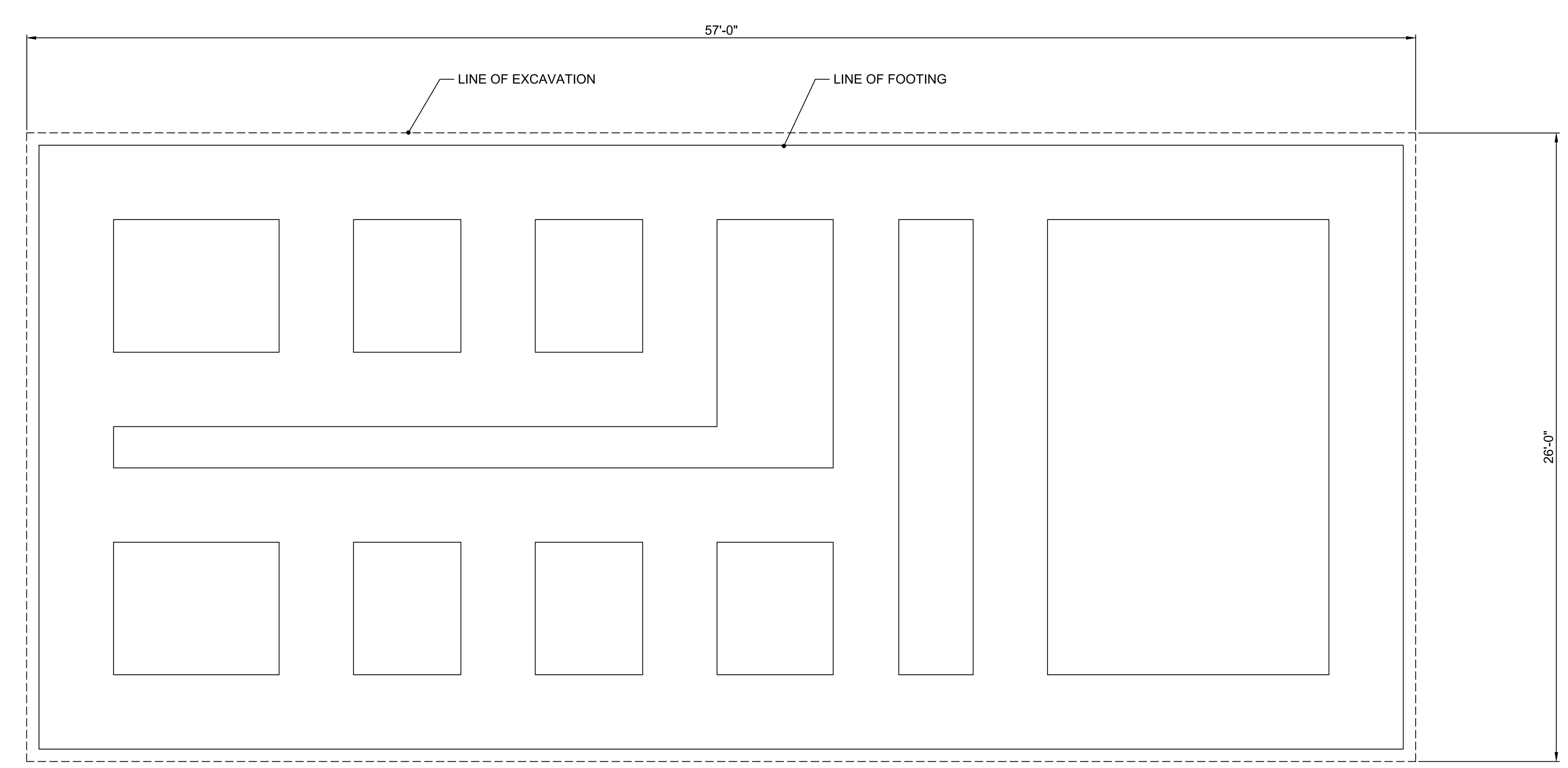


4 S101 SOFFIT ANGLE SUPPORT 1 1/2"=1'-0"

ALL STEEL COMPONENTS INDICATED IN THIS DETAIL SHALL BE GALVANIZED.



ROOF FRAMING PLAN 1/4"=1'-0"



BUILDING EXCAVATION PLAN 1/4"=1'-0"

1. Excavate To Elevation -5'-6" Below Finished Floor Elevation.
2. Install 6" Base Stabilization Course (312000.08), Compact/Roll Into Subgrade.
3. Install Base Stabilization Geotextile (312000.13).
4. Fill Remainder of Excavation with Engineered Fill (312000.04), Compact per Specifications.

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Drawing Number: S101
Sheet: 3 of 22

MATERIAL NOTES

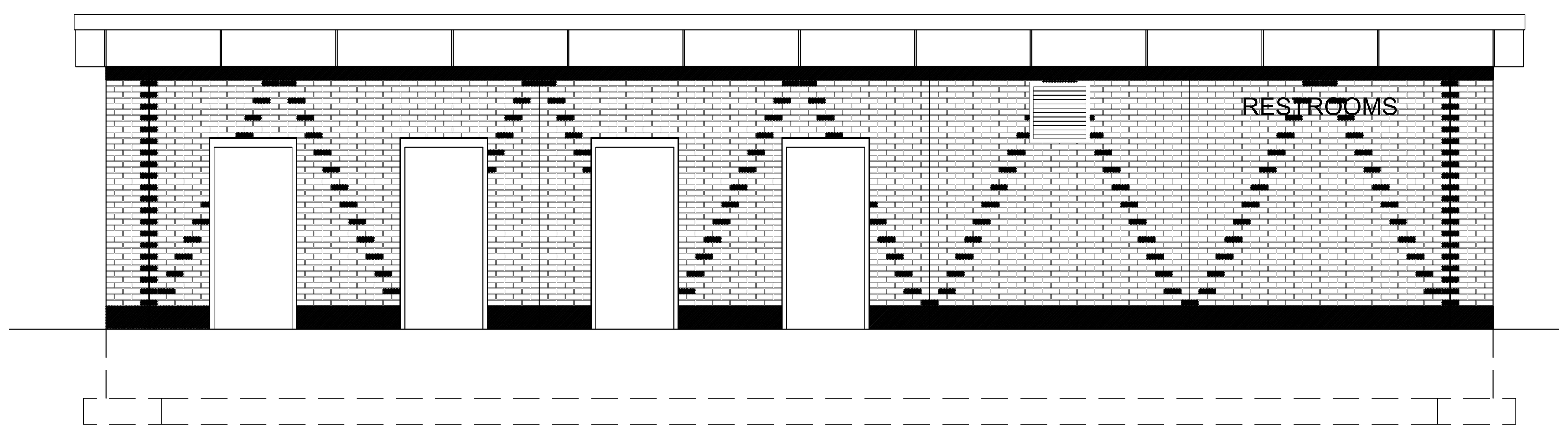
087100.01	Door Hardware
104413.01	Fire Protection Cabinets
104416.01	Fire Extinguisher
104416.02	Bracket & Fire Extinguisher

ENERGY DATA

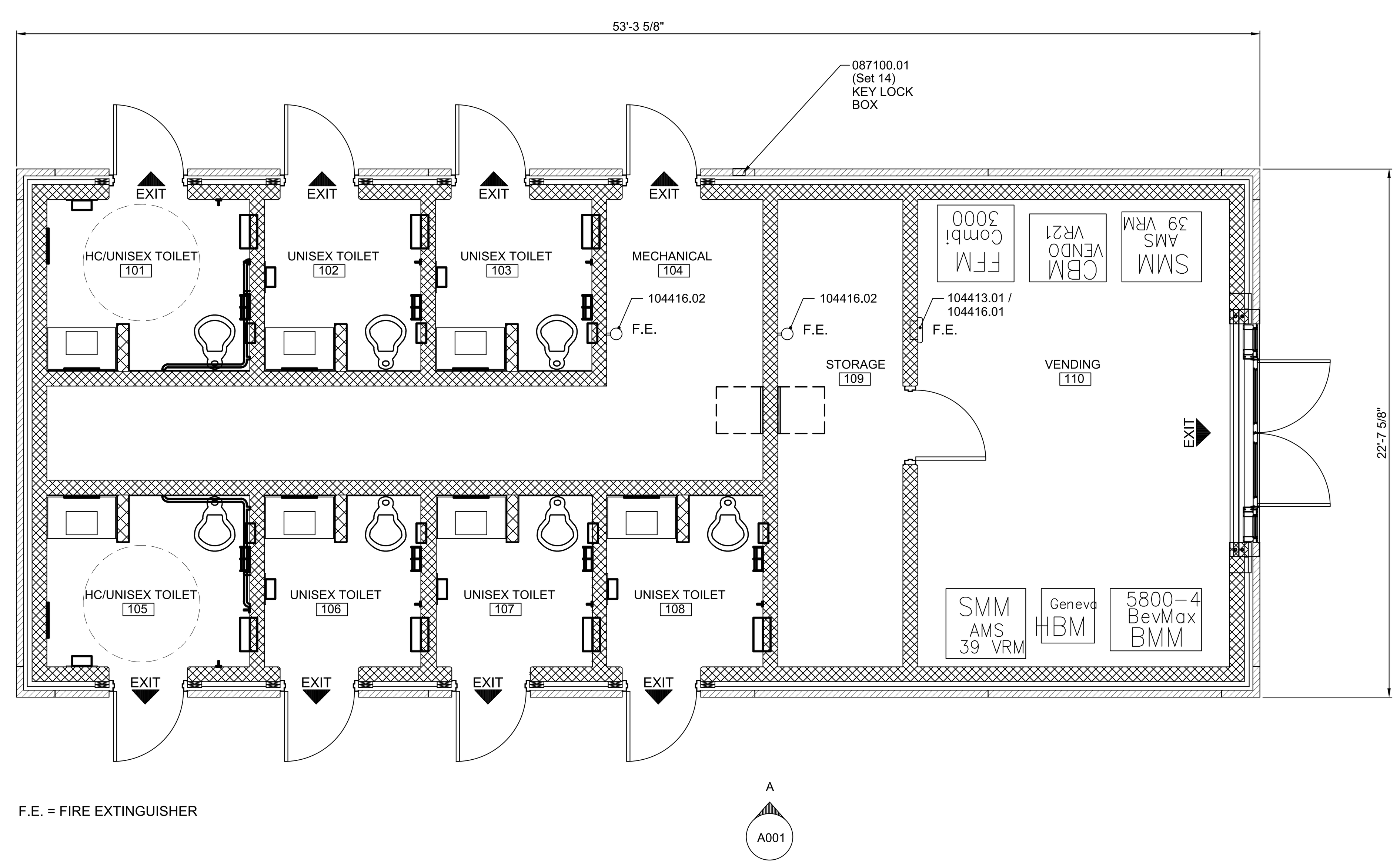
BUILDING COMPONENT	R-Value	Sq. Ft.
Roof Insulation 3-1/2"	21.1	1,207
Aluminum Entrance	2.85	69
FRP Doors	11.10	200
Wall Type # 1	17.00	1,554
4" Brick	.50	
2 1/2" Rigid Insulation	14.00	
8" Light Weight CMU	2.50	
Total Wall Area		1,824

BUILDING CODE

BUILDING	TOILET / VENDING BUILDING
USE AND OCCUPANCY CLASSIFICATION	B
CONSTRUCTION TYPE	V-B
BUILDING HEIGHT ALLOWABLE 40'	ONE STORY - 12'-0"
BUILDING AREA	1207 SQ. FT.
ALLOWABLE AREA INCREASE DUE TO FRONTAGE 75%	75 %
AREA SEPARATIONS	N/A
FLOOR DEAD LOAD	N/A
FLOOR LIVE LOAD	N/A
ROOF DEAD LOAD	20 #/SF
ROOF LIVE LOAD	20 #/SF
GROUND SNOW LOAD P_g	20 #/SF
FLAT ROOF SNOW LOAD P_f	18.9 #/SF
SNOW EXPOSURE FACTOR C_e	1
SNOW LOAD IMPORTANCE FACTOR I	1
THERMAL FACTOR C_t	1
BASIC WIND SPEED MILES/HR	105
WIND IMPORTANCE FACTOR I	1
WIND EXPOSURE	A, TRANSVERSE
APPLICABLE INTERNAL PRESSURE COEFFICIENT	N/A
COMPONENTS AND CLADDING	5.9/-36.8
SEISMIC IMPORTANCE FACTOR	I
OCCUPANCY CATEGORY	III
MAPPED SPECTRAL ACCELERATION FOR SHORT S_s	.170g
MAPPED SPECTRAL RESPONSE FOR 1 SECOND S_1	.090g
SITE CLASS	D
SEISMIC ZONE	1
BASIC SEISMIC FORCE RESISTING SYSTEM	BEARING WALL SYSTEM INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
ANALYSIS PROCEDURE USED	SIMPLIFIED ANALYSIS PROCEDURE



A
A001
BUILDING ELEVATION 1/4"=1'-0"



F.E. = FIRE EXTINGUISHER

A
A001

LIFE SAFETY PLAN 1/4"=1'-0"

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NOTE:
GENERAL CONTRACTOR AND MASON SHALL REFER TO HVAC SHEETS & COORDINATE WITH HVAC CONTRACTOR TO VERIFY ALL LOCATIONS OF DUCT PENETRATIONS OF MASONRY WALLS PRIOR TO PLACEMENT OF MASONRY. COORDINATE AT ALL STAGES OF CONSTRUCTION.

GENERAL NOTES (UNLESS OTHERWISE NOTED)

1. ALL EXTERIOR WALLS: BRICK VENEER WITH BLOCK BACKUP.
2. ALL MASONRY BLOCK WALLS INDICATED BY HATCHING.
3. ALL DIMENSIONS GIVEN FROM FACE OF MASONRY.
4. DOOR NUMBERS ARE LOCATED WITHIN RESPECTIVE ROOM DOOR OPENING. REFER TO SCHEDULE ON SHEET A600.
5. PROVIDE MASONRY BOND BEAMS AT ALL HVAC DUCT PENETRATIONS THROUGH MASONRY WALLS. SEE LINTEL SCHEDULES ON S100 AND MECH. SHEETS.

FINISH NOTES: (UNLESS OTHERWISE NOTED)

1. ALL INTERIOR SURFACES NOT PREFINISHED, SHALL BE PAINTED.
2. IN AREAS WITH NO CEILINGS, ALL EXPOSED CONSTRUCTION COMPONENTS NOT PREFINISHED, SHALL BE PAINTED. THIS INCLUDES, BUT IS NOT LIMITED TO, PIPING, PIPE INSULATION, AND CONDUIT.
3. EXTERIOR ITEMS TO BE PAINTED INCLUDE EXPOSED STEEL.
4. REFER TO REFLECTED CEILING PLAN FOR CEILING MATERIAL TYPES AND HEIGHTS.
5. PAINT ALL FRP DOORS AND FRAMES, 099600.01.

ROOM FINISH SCHEDULE

FLOOR

1	033543.01	Polished Concrete Finishing
2	033000.12	Penetrating Liquid Floor Treatment

BASE

A	093013.01	Tile (Type CT-1)
B	093013.01	Tile (Type CT-2)
C	099123.01	Paint

WALL

1	093013.01	Tile (Type CT-1)
2	093013.01	Tile (Type CT-2)
3	093013.01	Tile (Type CT-3)
4	093013.01	Tile (Type CT-4)
5	093013.01	Tile (Type CT-5)
6	099600.01	High-Performance Coating
7	099123.01	Paint

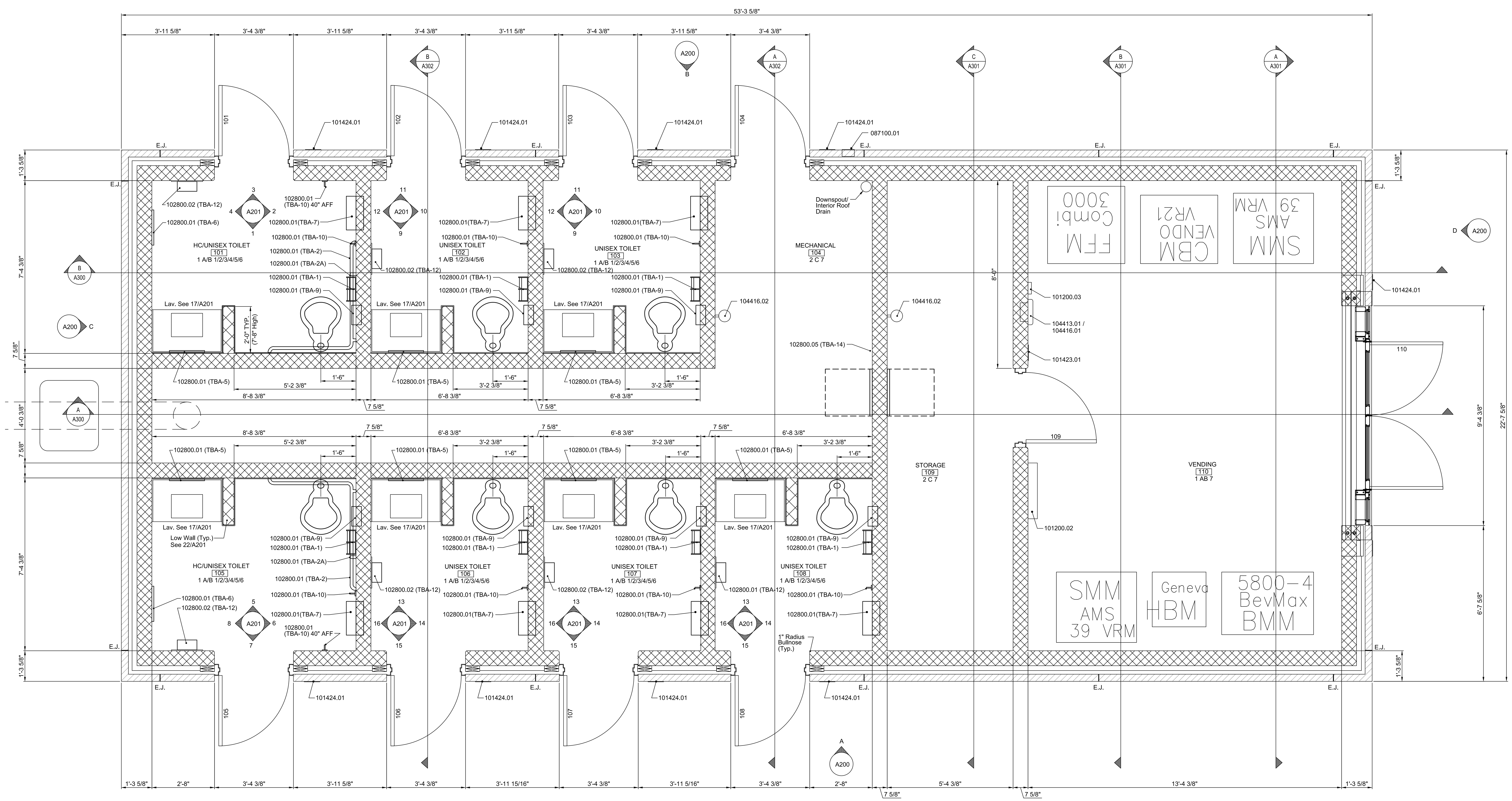
ROOM FINISH SCHEDULE IS LOCATED WITHIN RESPECTIVE ROOM ON FLOOR PLAN AND INDICATES THE FOLLOWING:

TOILET ROOM NAME
101 ROOM NUMBER
FLOOR — 1 A 2/3
BASE — WALL

ROOM FINISH KEY CONTAINING SLASH MARK "A/B" INDICATES SURFACE TO RECEIVE MULTIPLE FINISHES.

MATERIAL NOTES

033000.12	Penetrating Liquid Floor Treatment
033543.01	Polished Concrete Finishing
087100.01	Door Hardware
093013.01	Tile (Type)
099600.01	High-Performance Coating
099123.01	Paint
101200.02	Brochure Display Case
101200.03	Note Card Display Case
101423.01	Room Identification Panel Signage
101424.01	Panel Signage
102800.01	Toilet and Bath Accessory
102800.02	Warm-Air Dryer
102800.05	Custodial Accessory
104413.01	Fire Protection Cabinets
104416.01	Fire Extinguisher
104416.02	Bracket & Fire Extinguisher



REFER TO CIVIL SHEETS FOR BUILDING ORIENTATION

FLOOR PLAN

1/2"=1'-0"

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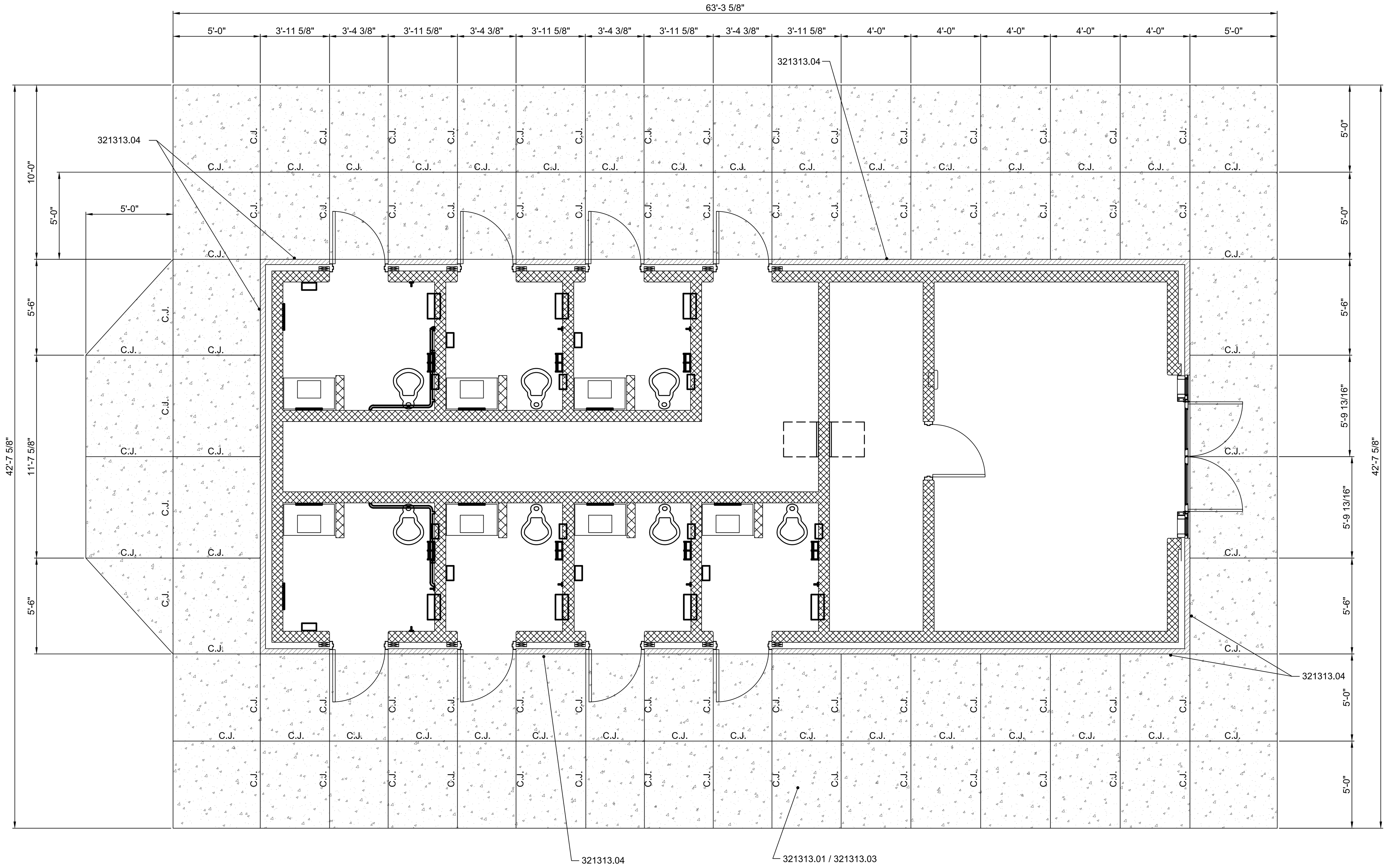
PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE NB TRUCK PARKING
TAYLORSVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number:	03003001-24-025-D1
Requisition Number:	.
Account Number:	.
Designer:	Drawing Date: SEP 2024
Drafter:	Drawing Scale:
DAPW Approval:	
Client Approval:	
Reference Number:	1385N
Building Reference:	TR
Drawing Number:	A100
Sheet:	5 of 22

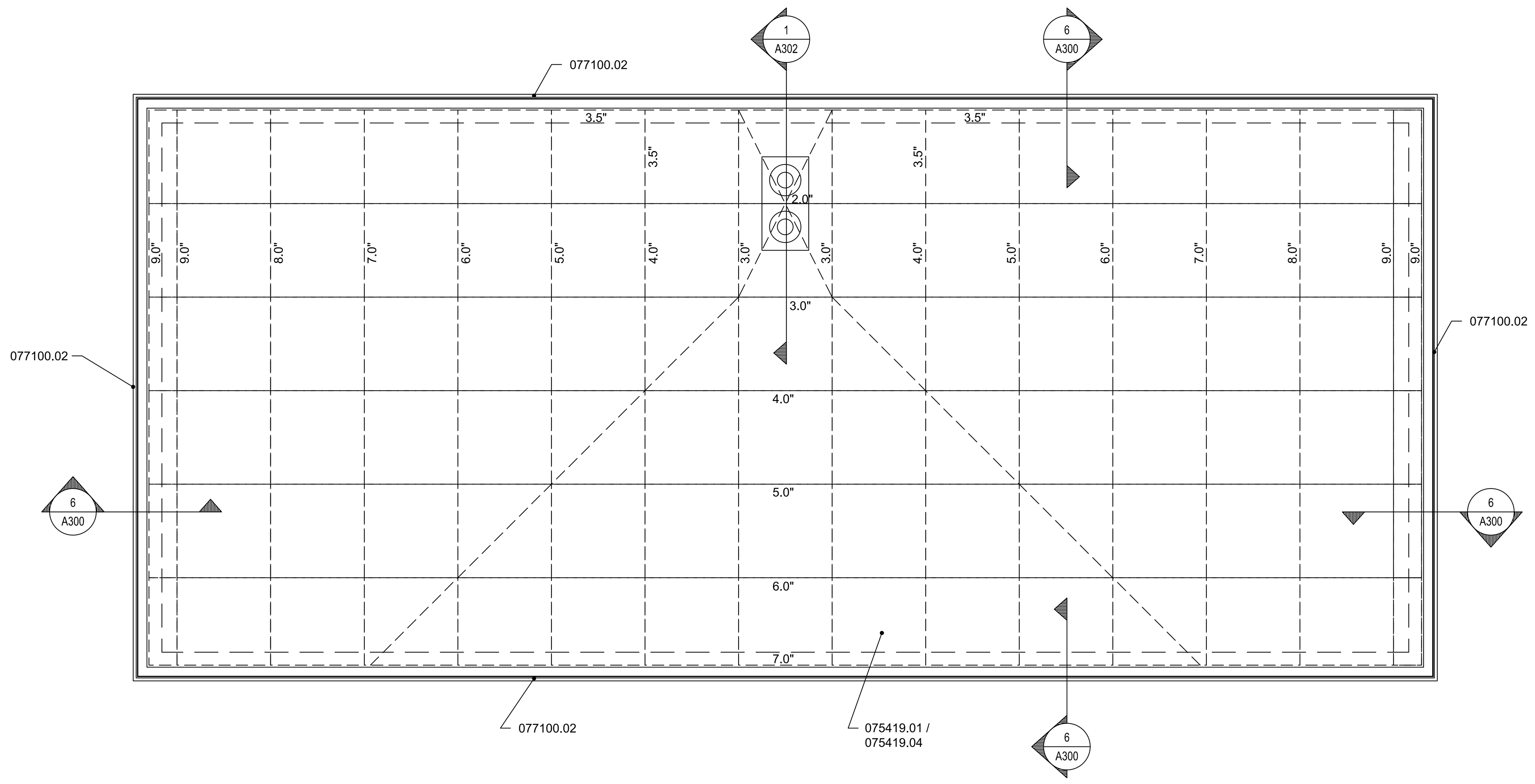


SIDEWALK PLAN 1/4"=1'-0"

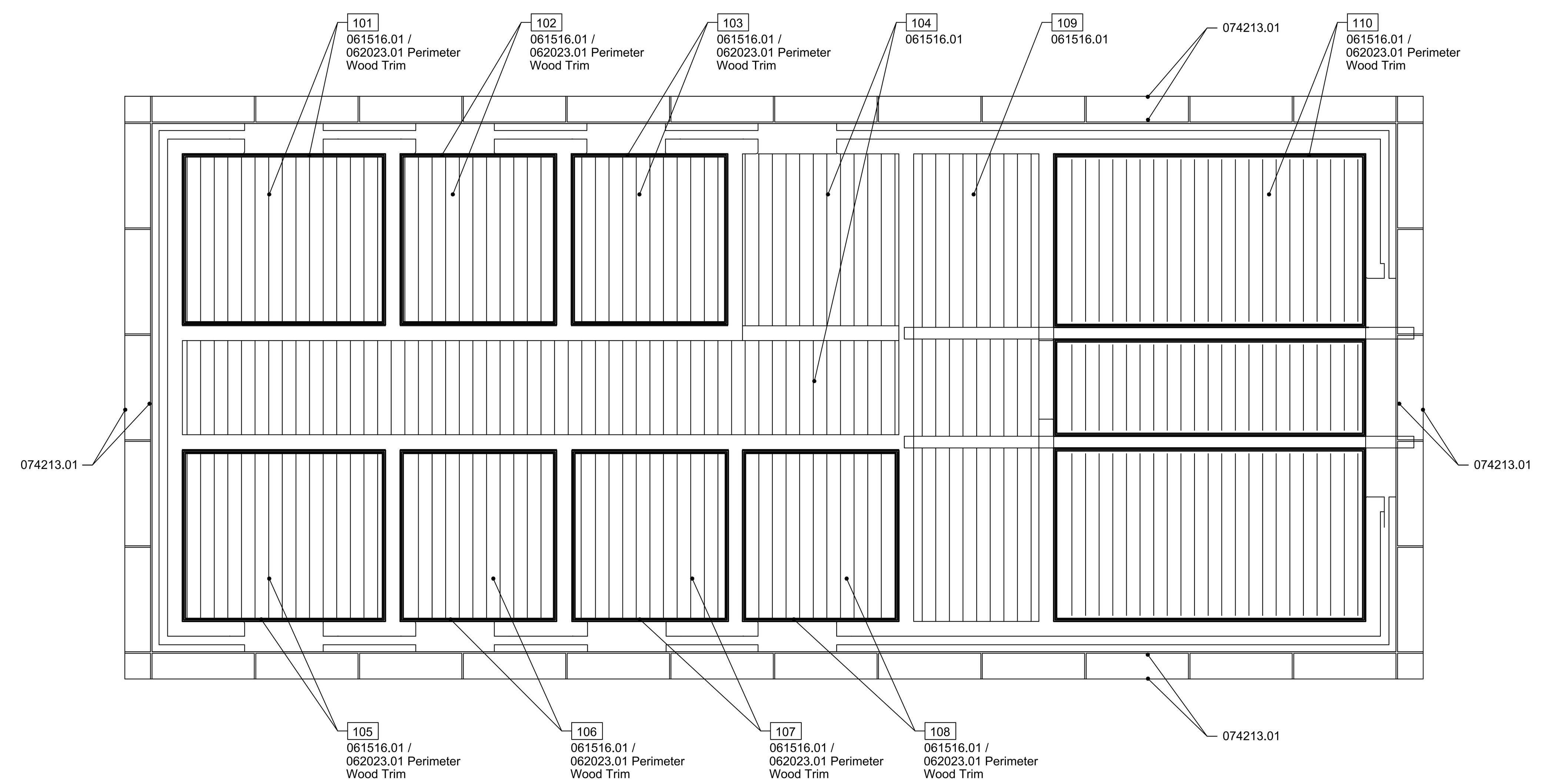
REFER TO CIVIL SHEETS FOR ALL FINISHED GRADE ELEVATIONS
& CONCRETE CONTINUATION

MATERIAL NOTES

061516.01	Glued Laminated Wood Roof Decking
062023.01	Interior Finished Carpentry
075419.01	Polyvinyl-Chloride (PVC) Roofing
075419.04	Roof Insulation
074213.01	Metal Composite Material Wall Panel
077100.02	Roof Edge Fascia
321313.01	Cement Concrete Pavement
321313.03	Steel Reinforcement
321313.04	Expansion- and isolation-Joint-Filler Strips



ROOF PLAN 1/4"=1'-0"



REFLECTED CEILING PLAN 1/4"=1'-0"

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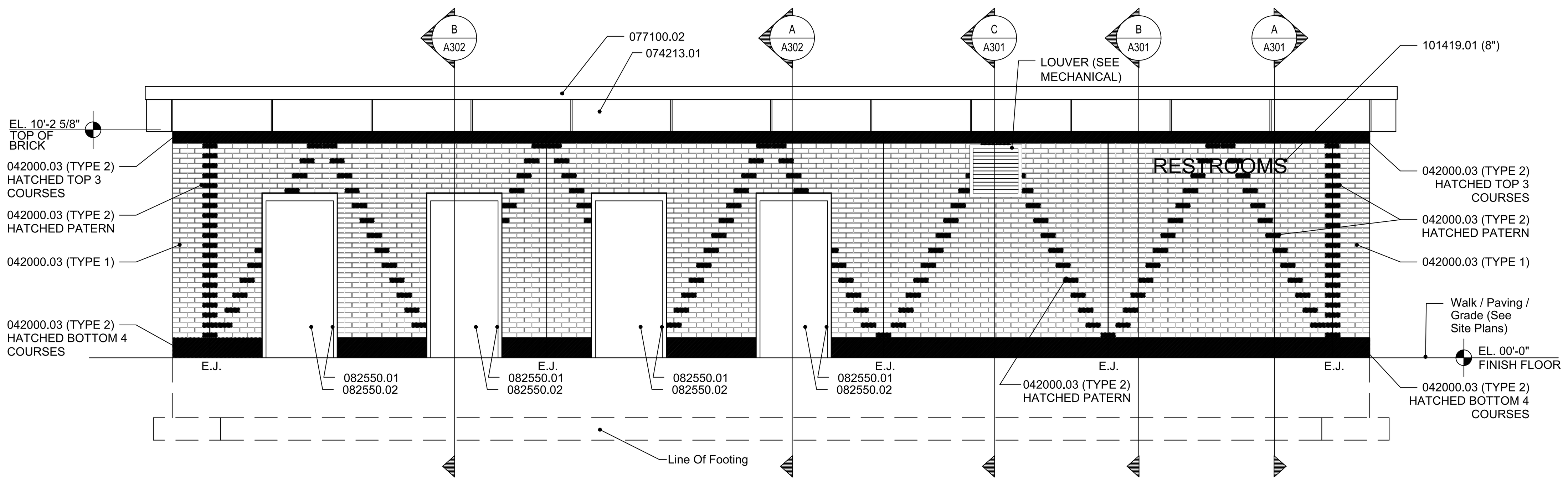
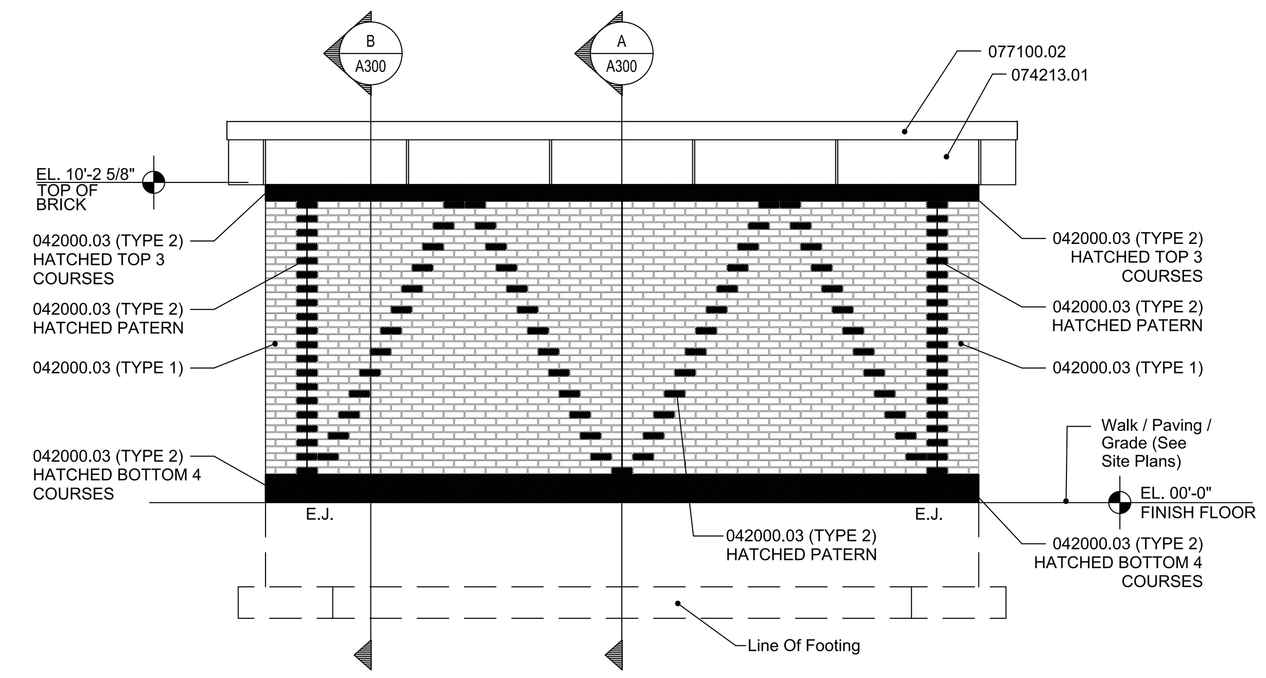
Client Approval:
Reference Number: 1385N
Building Reference: TR
Drawing Number: A101
Sheet: 6 of 22



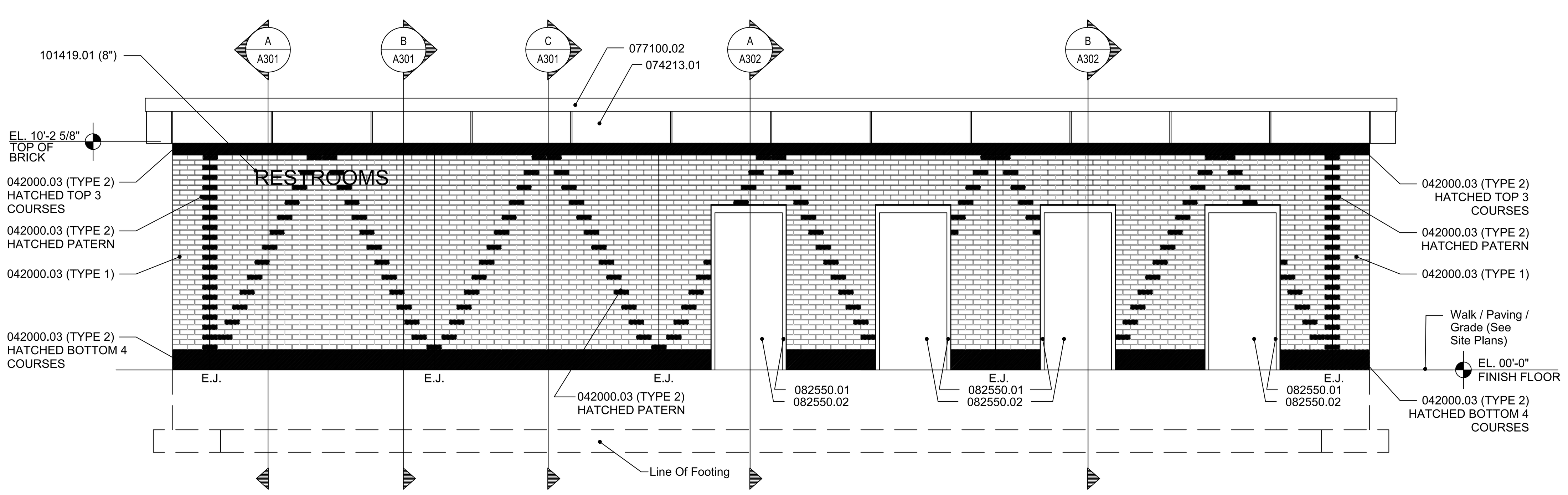
A A200 BUILDING ELEVATION 1/4"=1'-0"



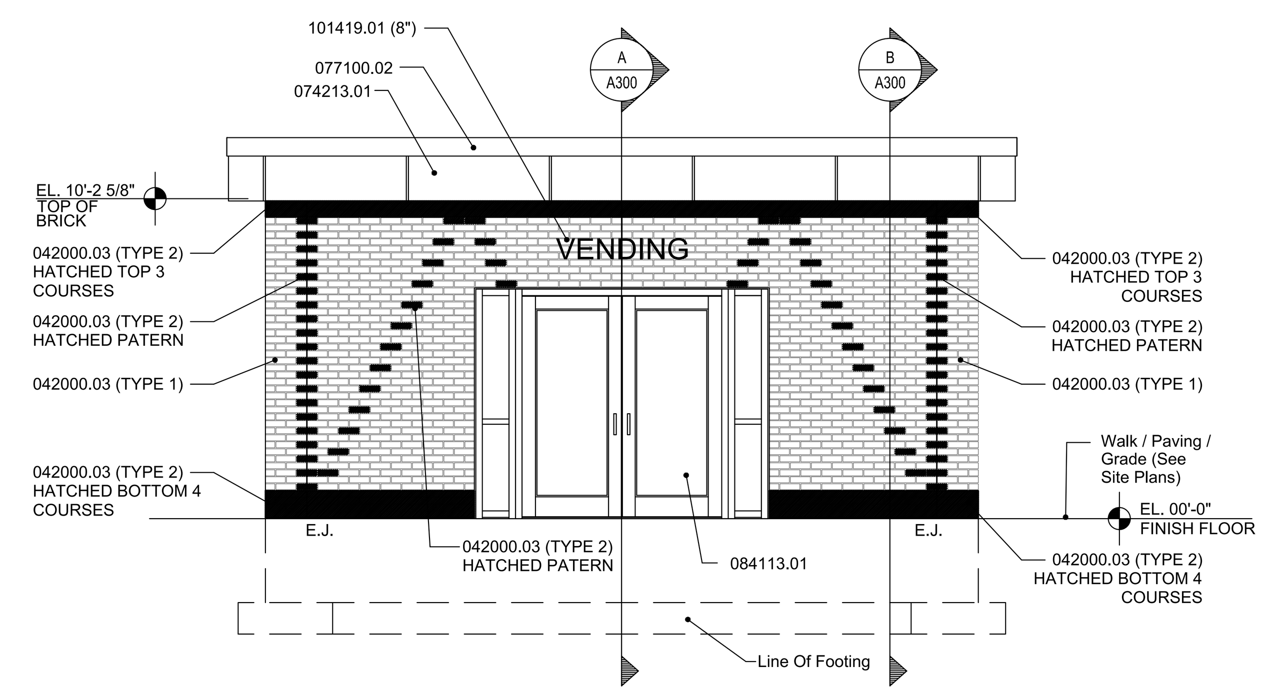
C A200 BUILDING ELEVATION 1/4"=1'-0"

MATERIAL NOTES

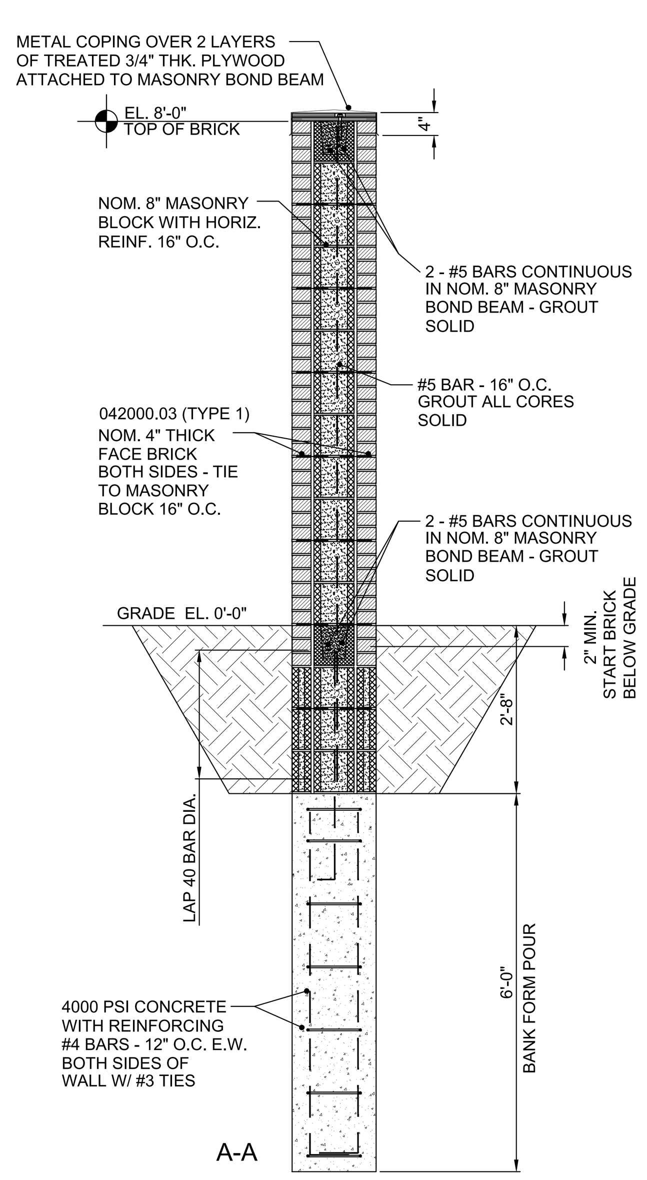
042000.03	Brick (Type)
074213.01	Metal Composite Material Wall Panel
077100.01	Coping
077100.02	Roof Edge Fascia
082550.01	Fiberglass reinforced plastic (FRP) Frame
082550.02	Fiberglass reinforced plastic (FRP) Door
084113.01	Aluminum Entrance Doors
101419.01	Dimensional Letter Signage

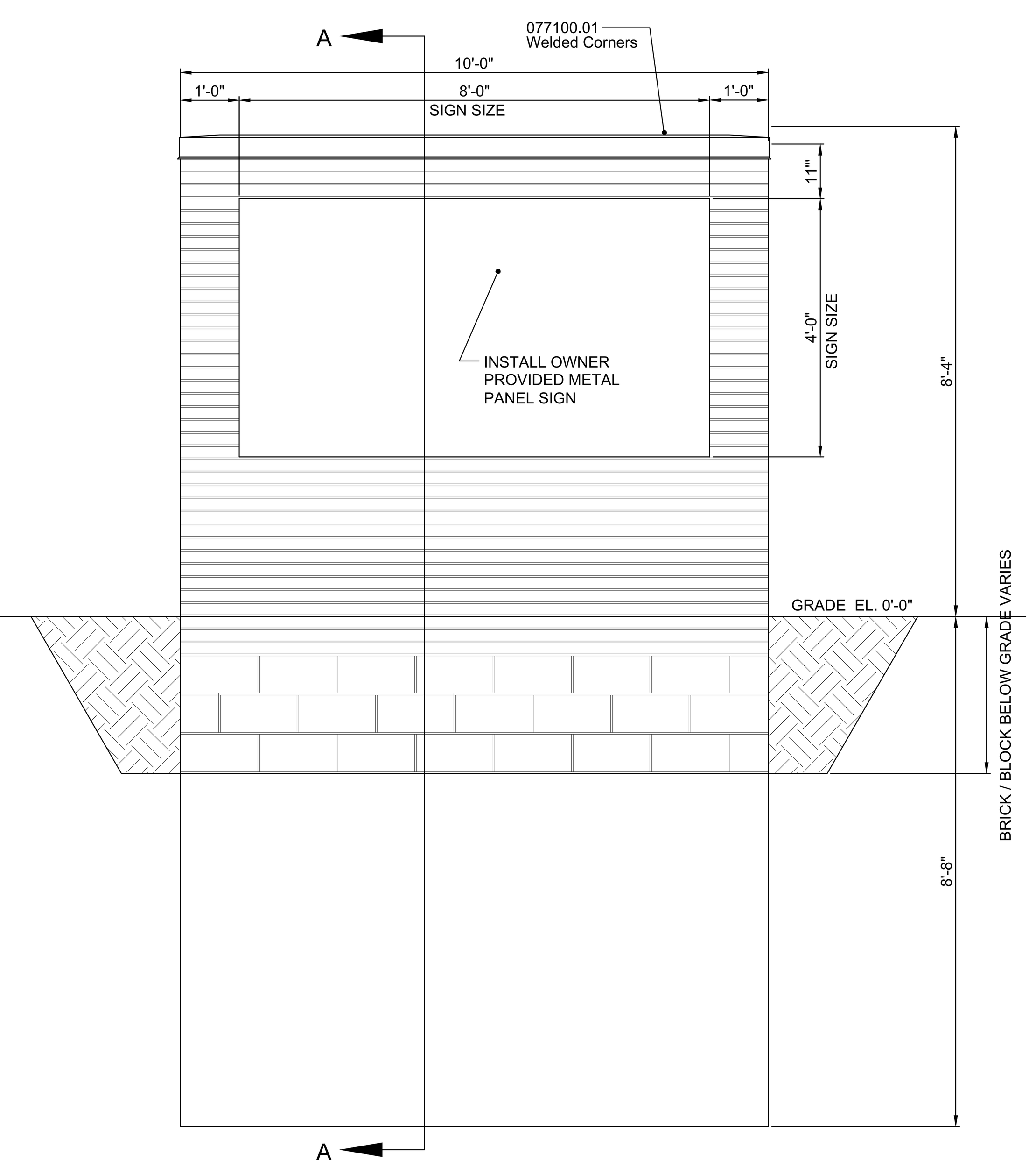


B A200 BUILDING ELEVATION 1/4"=1'-0"



D A200 BUILDING ELEVATION 1/4"=1'-0"





PYLON SIGN 1/2"=1'-0"
ONE (1) REQUIRED SEE CIVIL SHEETS FOR SITE LOCATION

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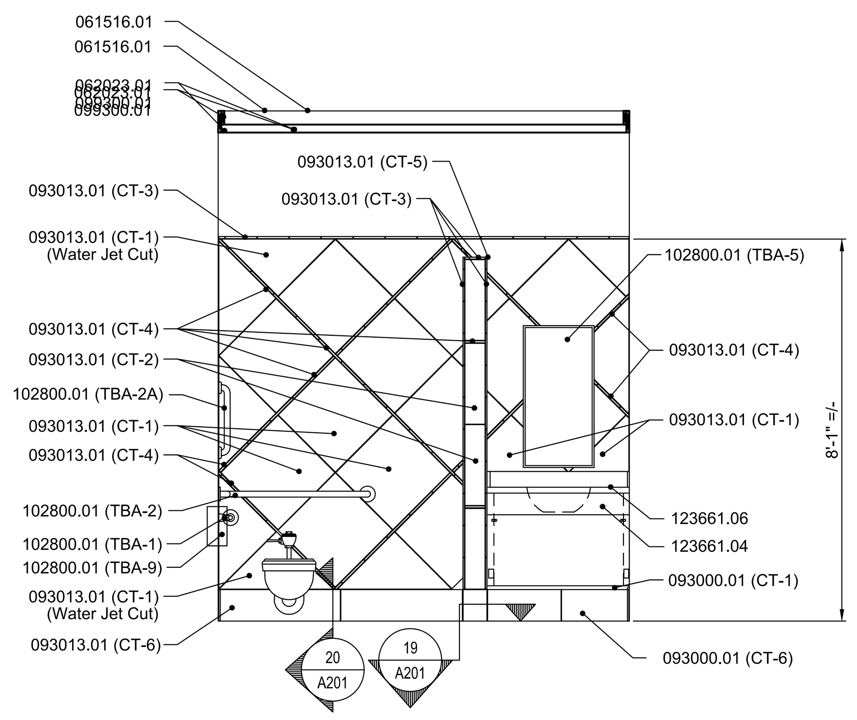
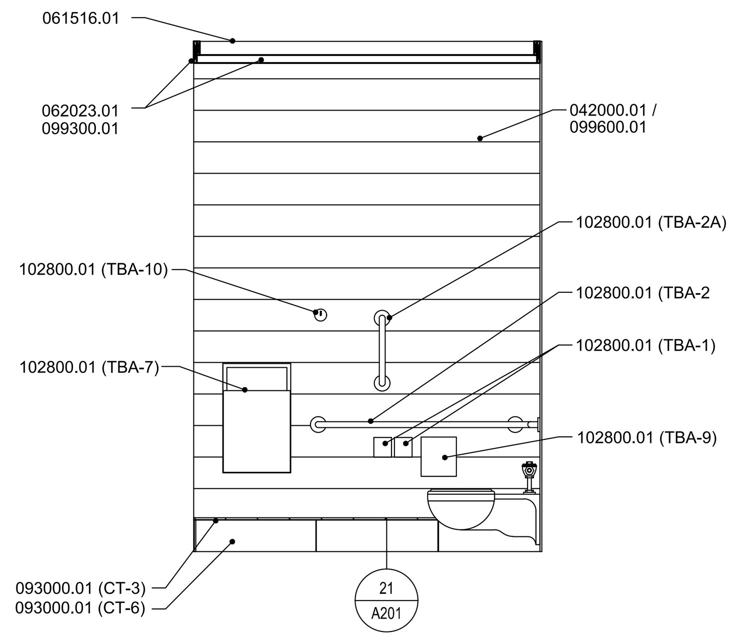
Sheet: 7 of 22



1 A201 UNISEX TOILET 101 INTERIOR ELEVATION 3/8"=1'-0"



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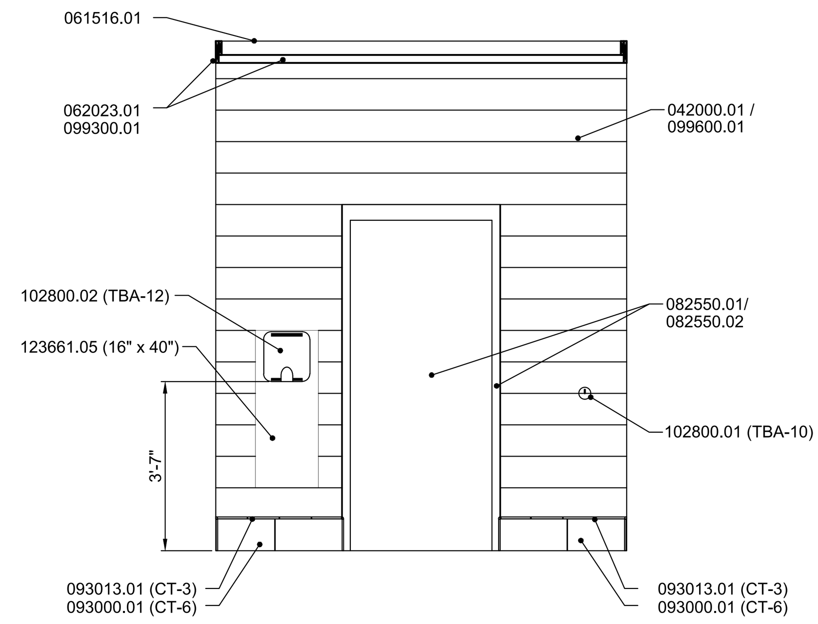
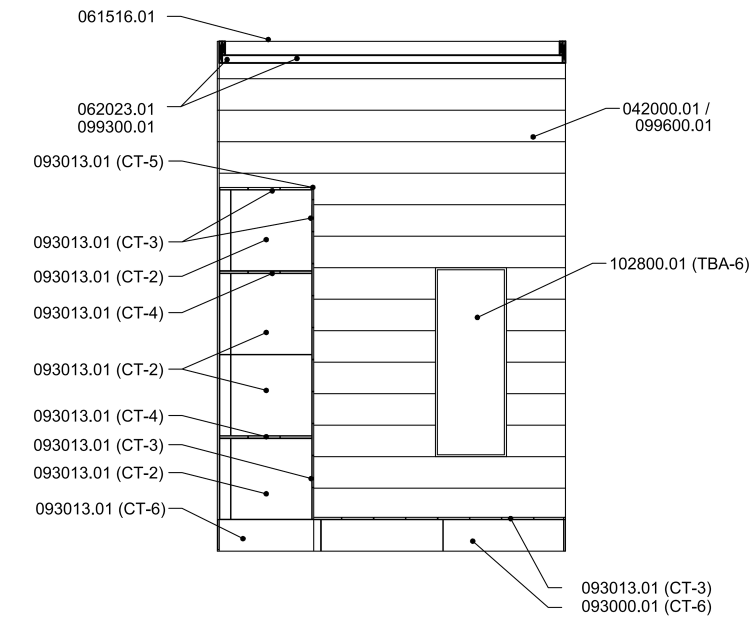
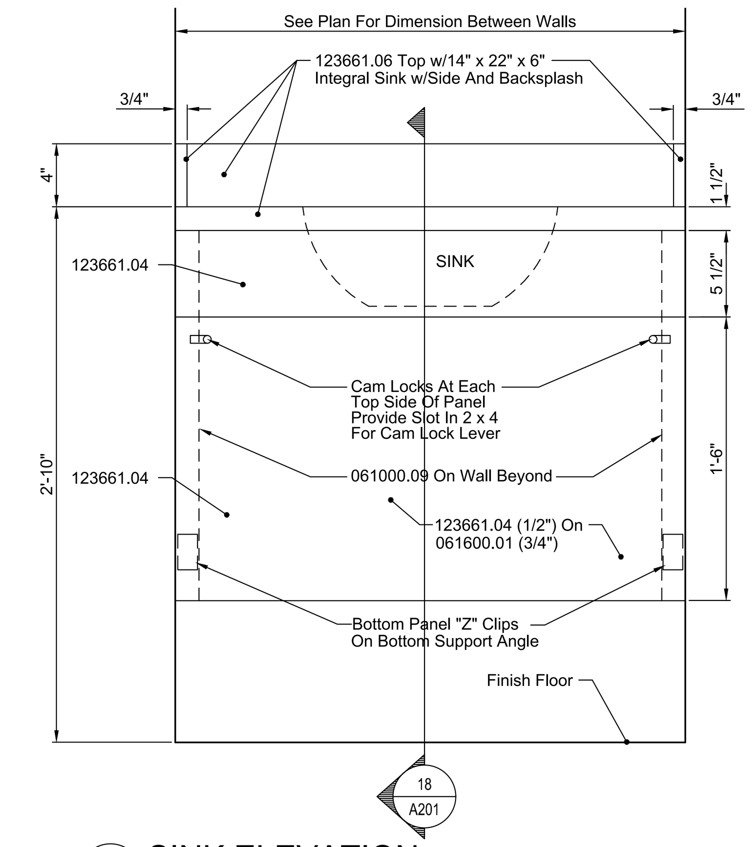


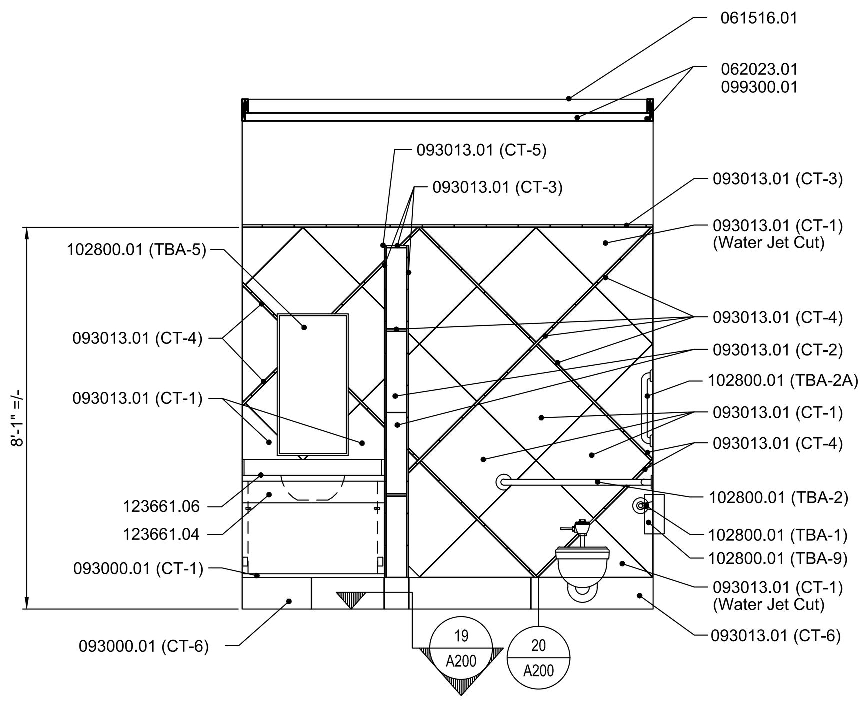
3 A201 UNISEX TOILET 101 INTERIOR ELEVATION 3/8"=1'-0"



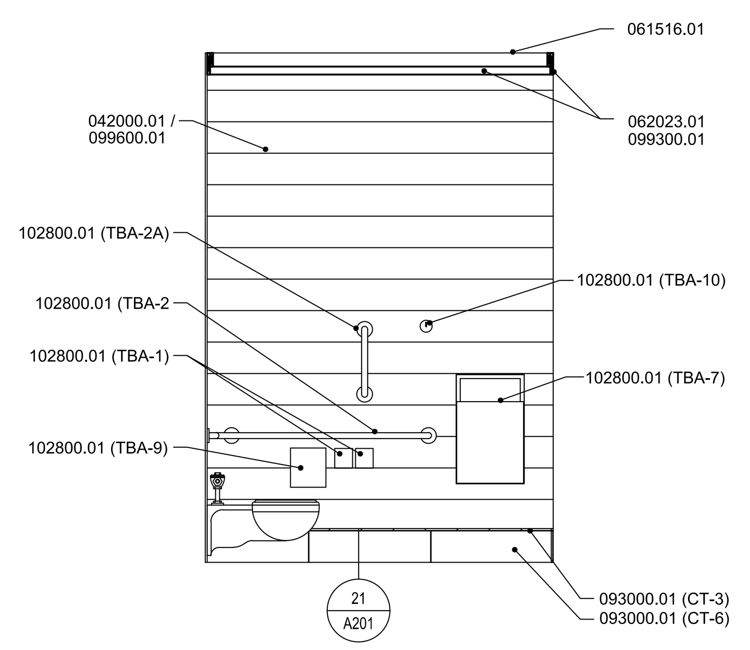
4 A201 UNISEX TOILET 101 INTERIOR ELEVATION 3/8"=1'-0"



17 A201 SINK ELEVATION 1 1/2"=1'-0"



5 A201 UNISEX TOILET 105 INTERIOR ELEVATION 3/8"=1'-0"



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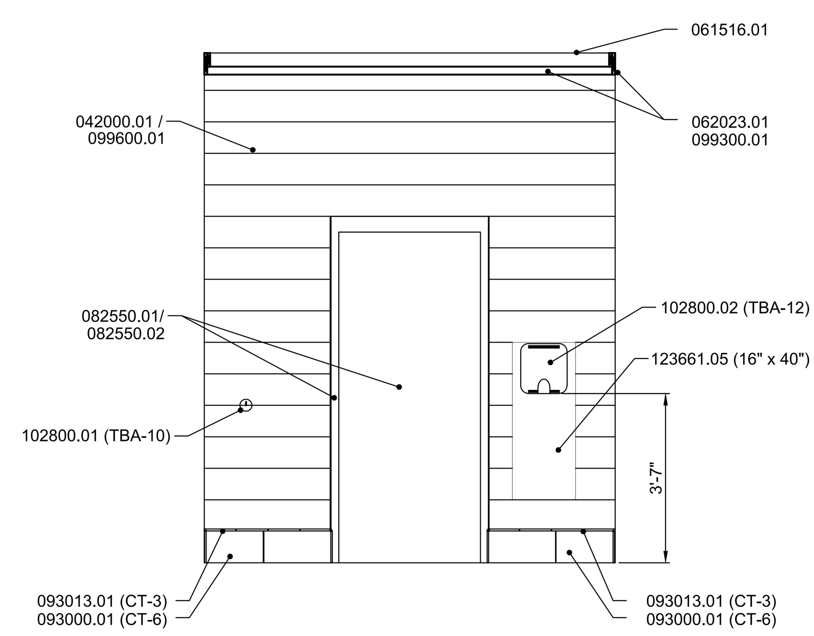
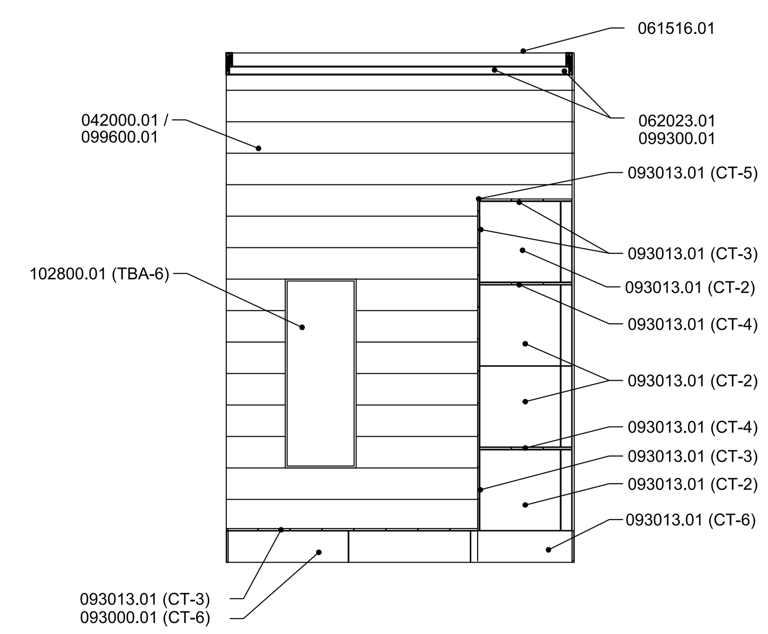
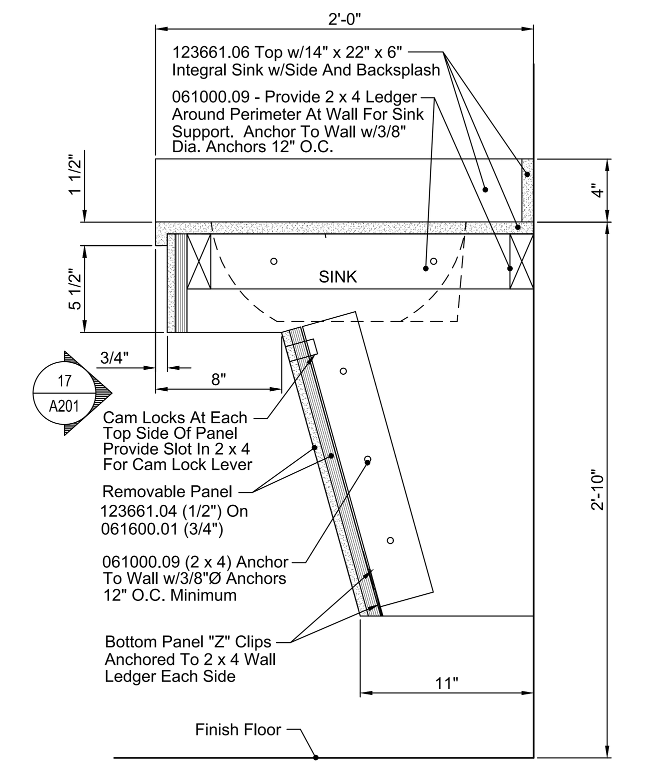


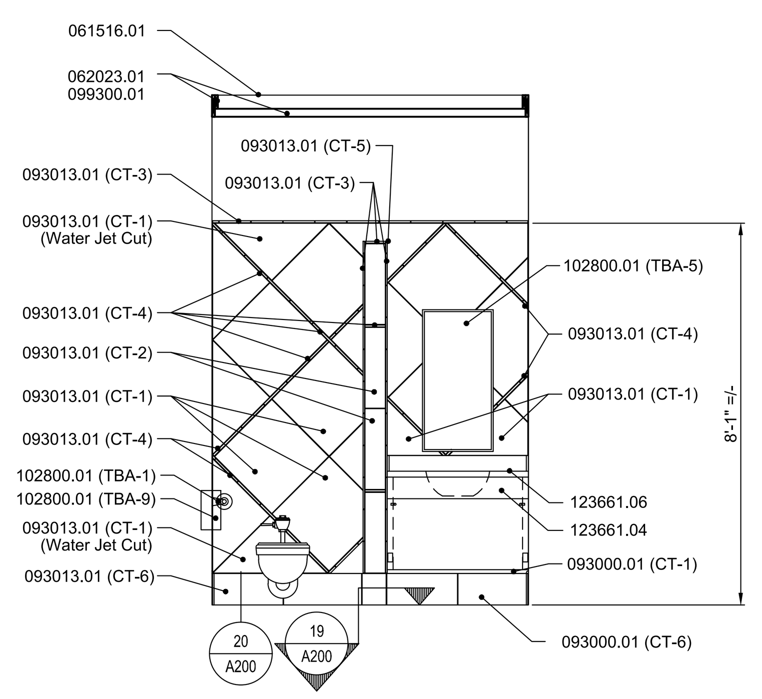
7 A201 UNISEX TOILET 105 INTERIOR ELEVATION 3/8"=1'-0"



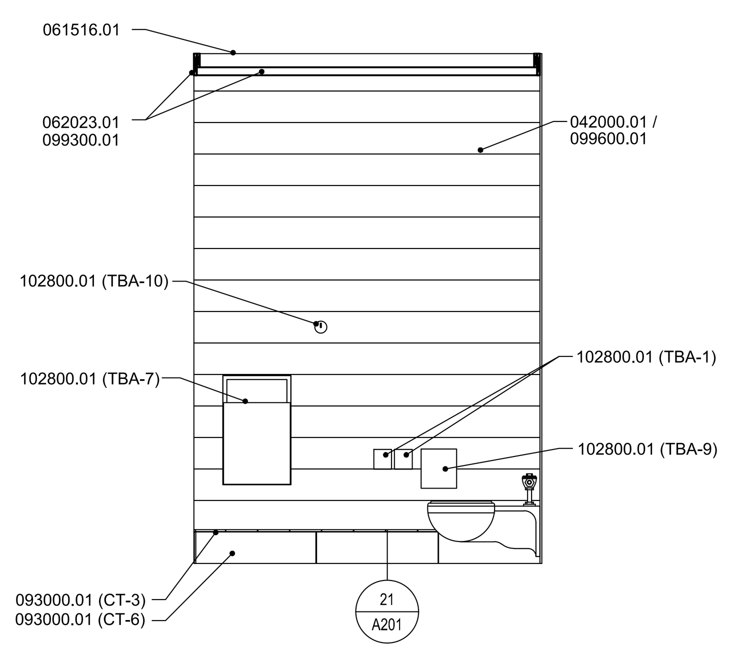
8 A201 UNISEX TOILET 105 INTERIOR ELEVATION 3/8"=1'-0"



18 A201 SINK SECTION 1 1/2"=1'-0"



9 A201 UNISEX TOILET 102 & 103 INTERIOR ELEVATION 3/8"=1'-0"



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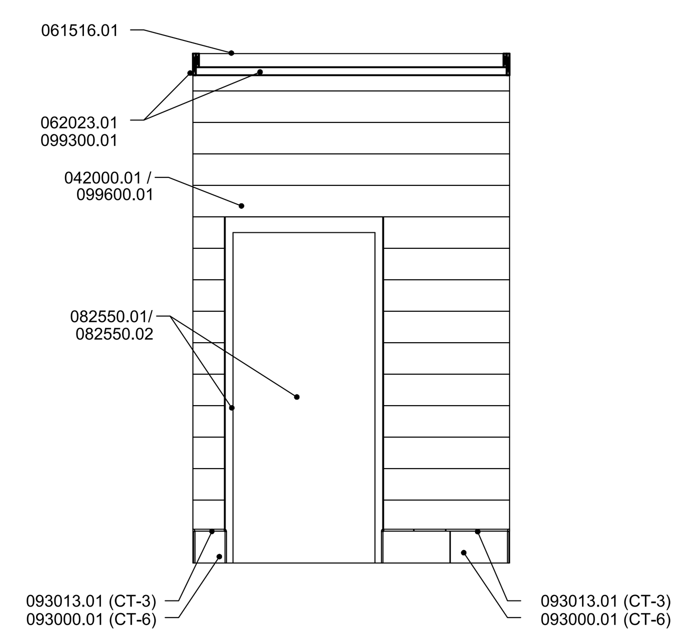

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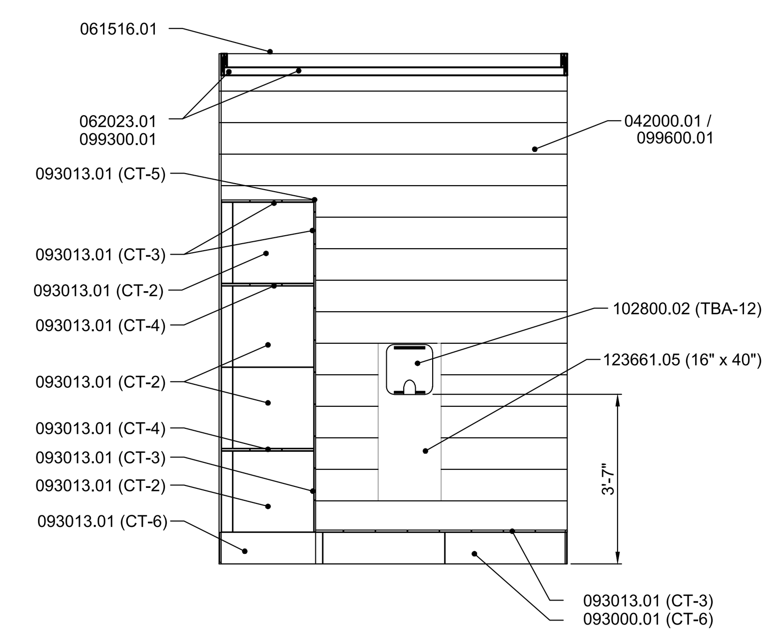
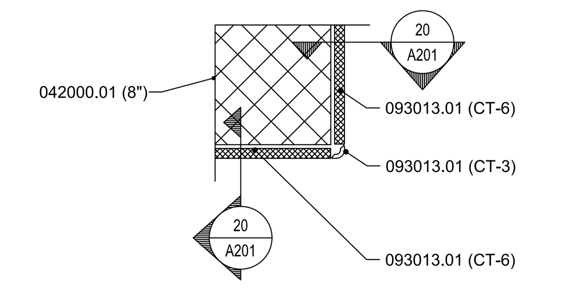


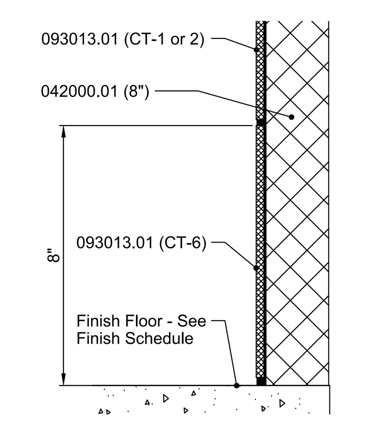
12 A201 UNISEX TOILET 102 & 103 INTERIOR ELEVATION 3/8"=1'-0"



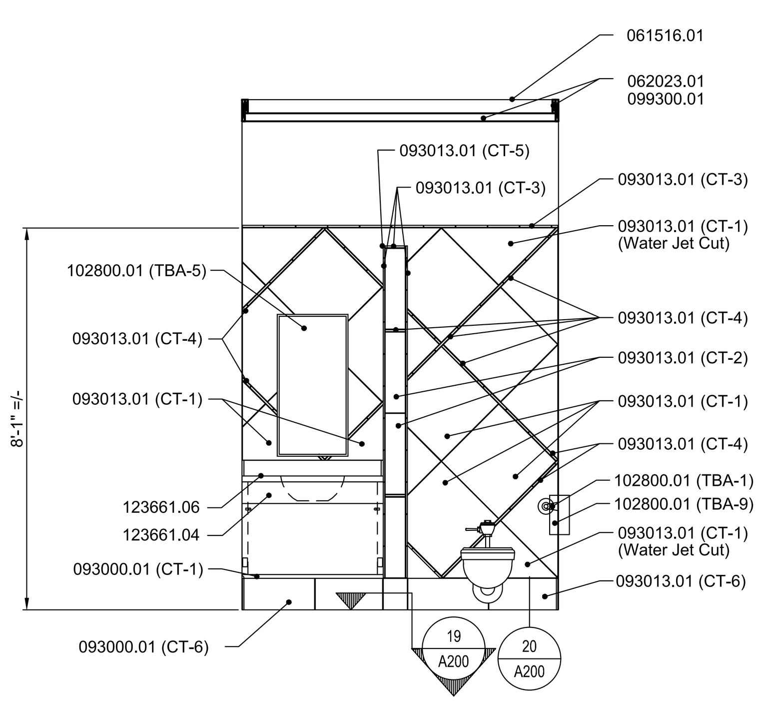
19 A201 TILE BASE CORNER DETAIL (PLAN) 3"=1'-0"

MATERIAL NOTES

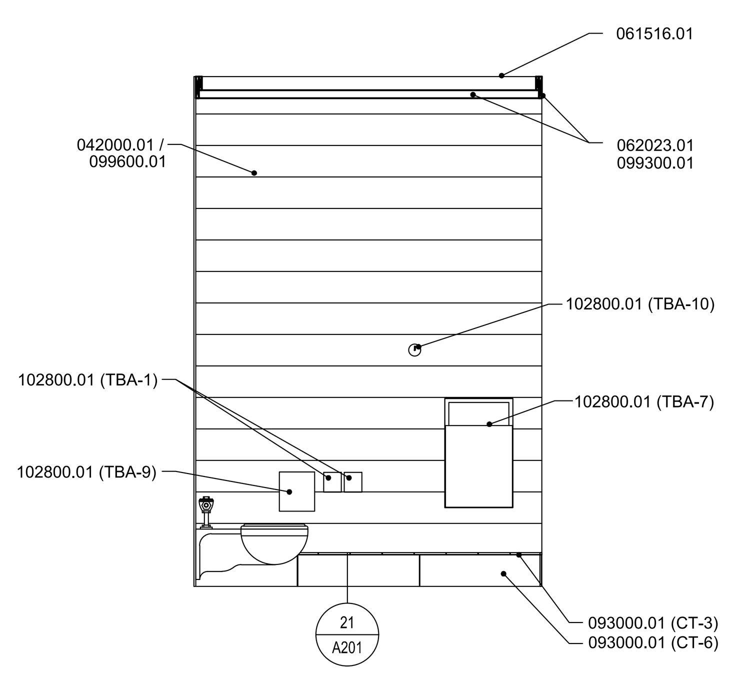
042000.01	Concrete Masonry Unit
061516.01	Glued Laminated Wood Roof Decking
062023.01	Interior Trim (Size)
082550.01	Fiberglass reinforced plastic (FRP) Frame
082550.02	Fiberglass reinforced plastic (FRP) Door
093013.01	Ceramic Tiling
099300.01	Staining and Transparent Finishing
099600.01	High-Performance Coating
102800.01	Toilet And Bath Accessories
102800.02	Warm-Air Dryer
123661.04	Solid Surfacing Casework Front
123661.05	Solid Surfacing Hand Dryer Backing Panel
123661.06	Solid Surfacing Countertop Including Integral Sink



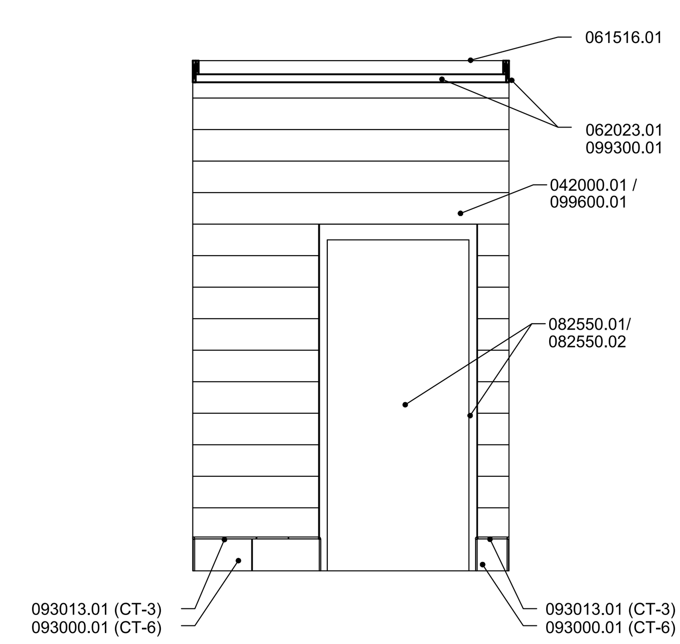
20 A201 TILE BASE "CT-6" 3"=1'-0"



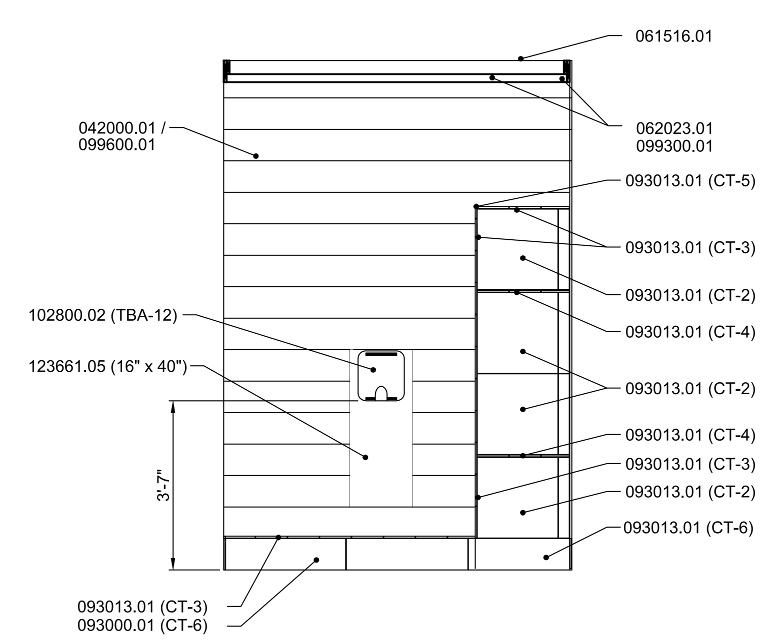
13 A201 UNISEX TOILET 106, 107, & 108 INTERIOR ELEVATION 3/8"=1'-0"



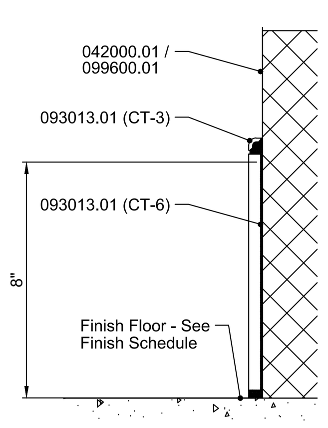
14 A201 UNISEX TOILET 106, 107, & 108 INTERIOR ELEVATION 3/8"=1'-0"



15 A201 UNISEX TOILET 106, 107, & 108 INTERIOR ELEVATION 3/8"=1'-0"



16 A201 UNISEX TOILET 106, 107, & 108 INTERIOR ELEVATION 3/8"=1'-0"



21 A201 TILE BASE "CT-3 & 6" 3"=1'-0"

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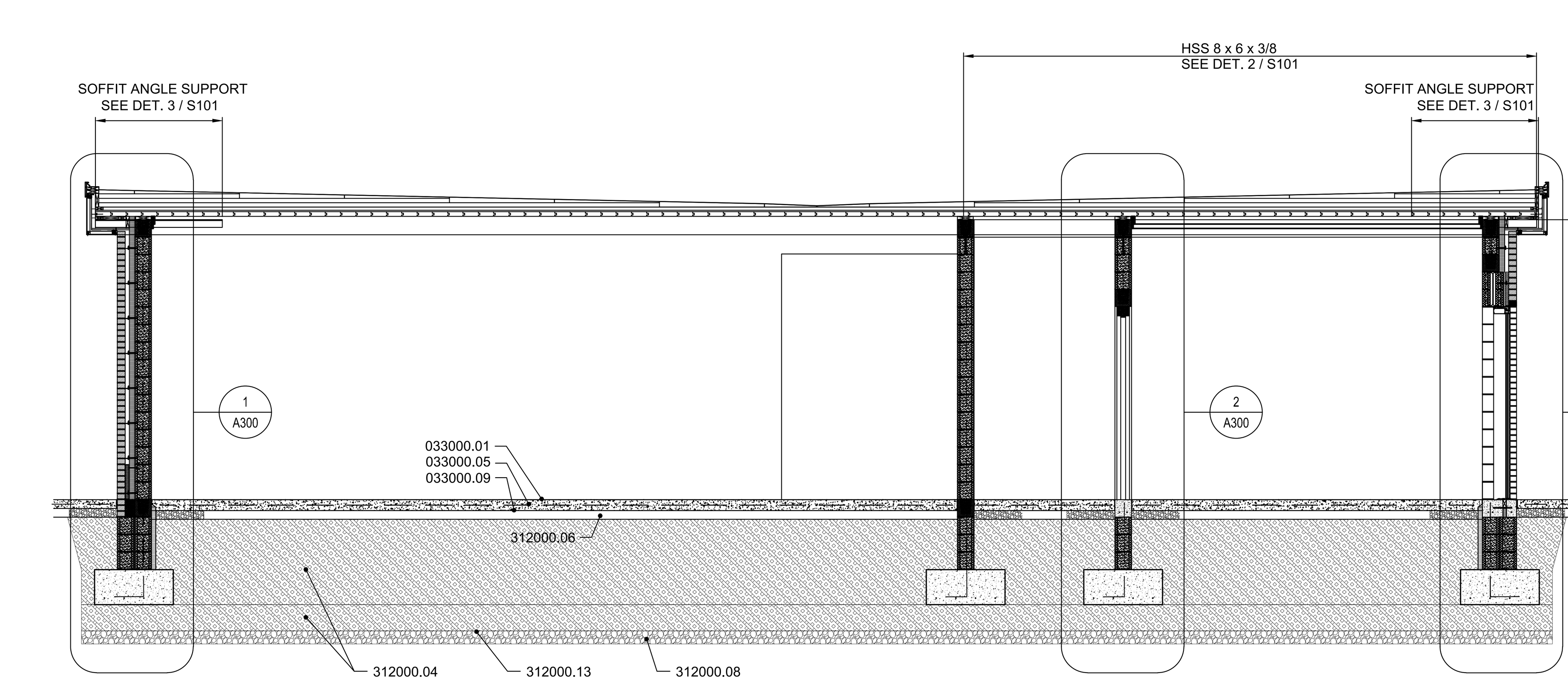
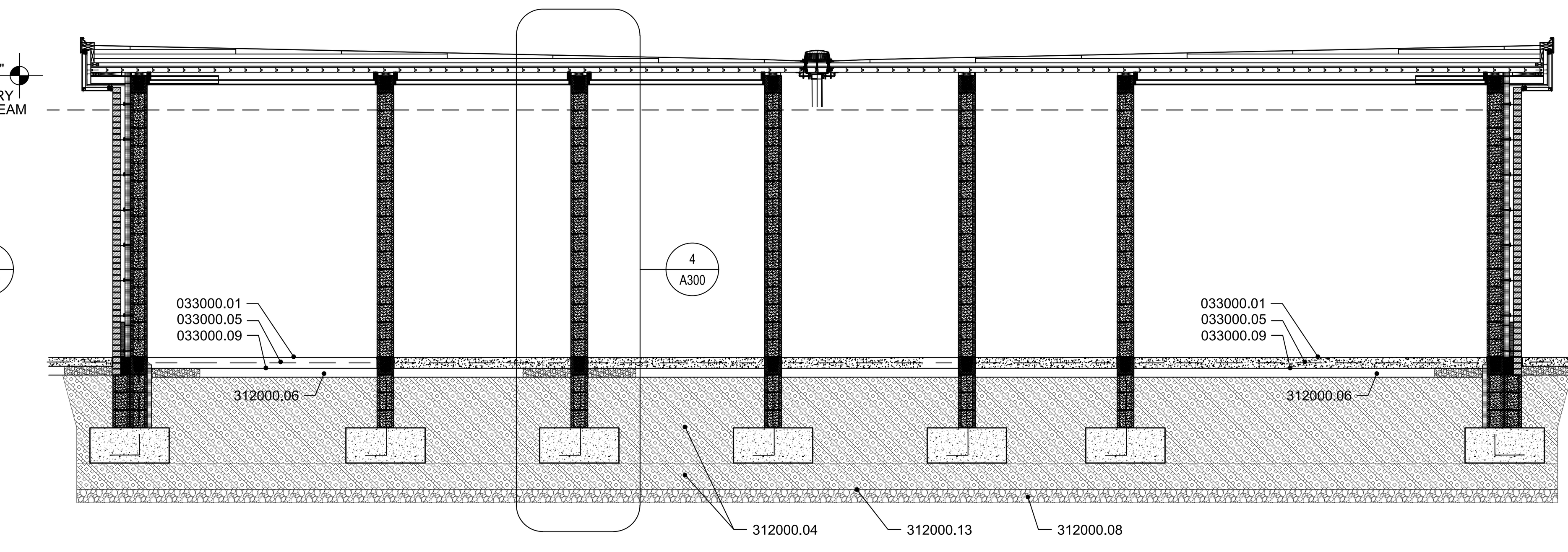
Sheet: 8 of 22



A A300 SECTION 1/4"=1'-0"



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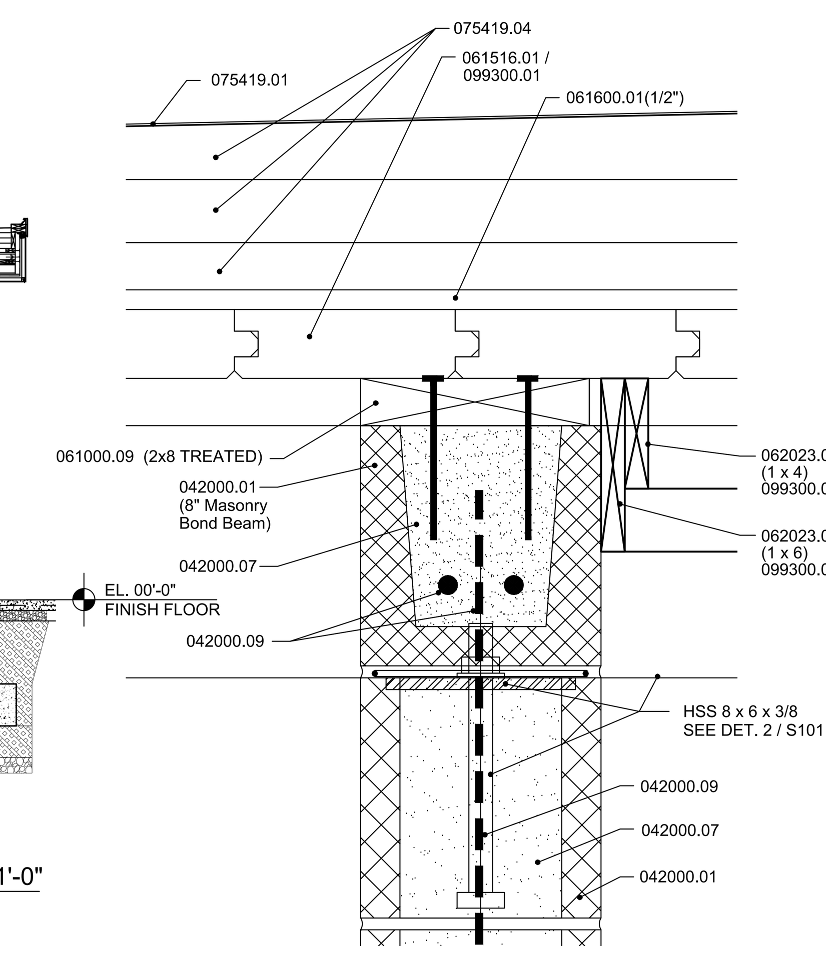
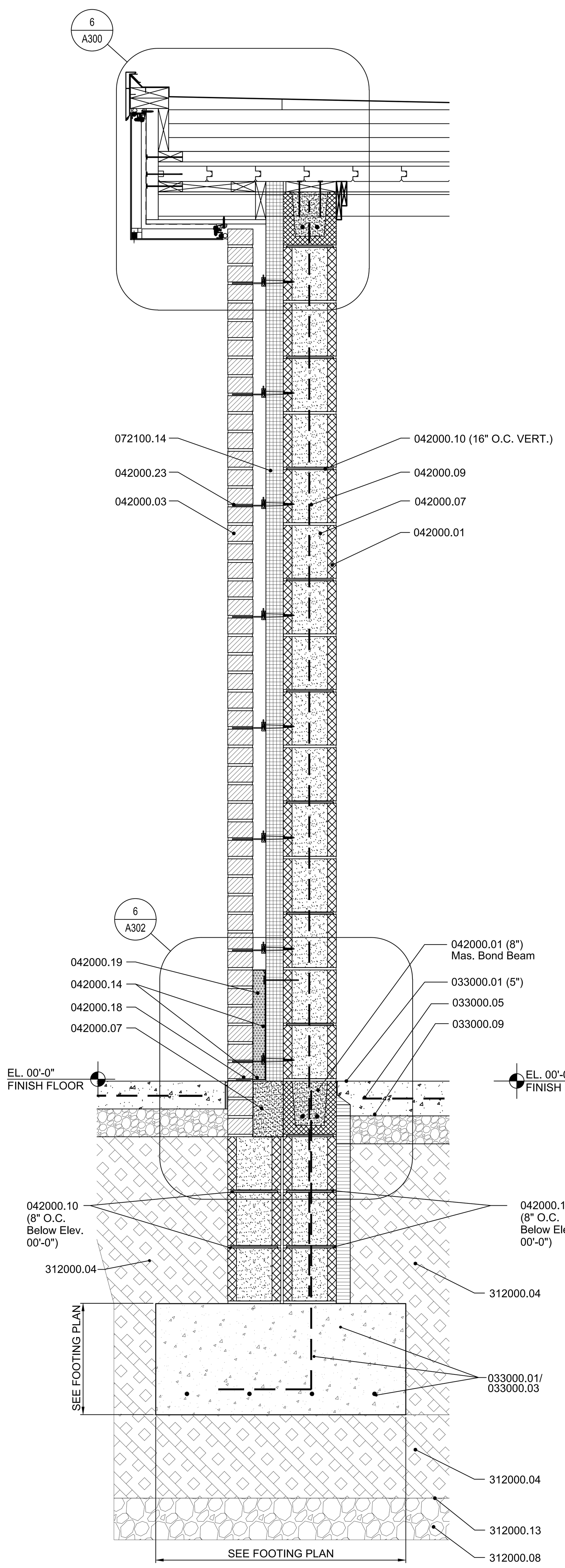
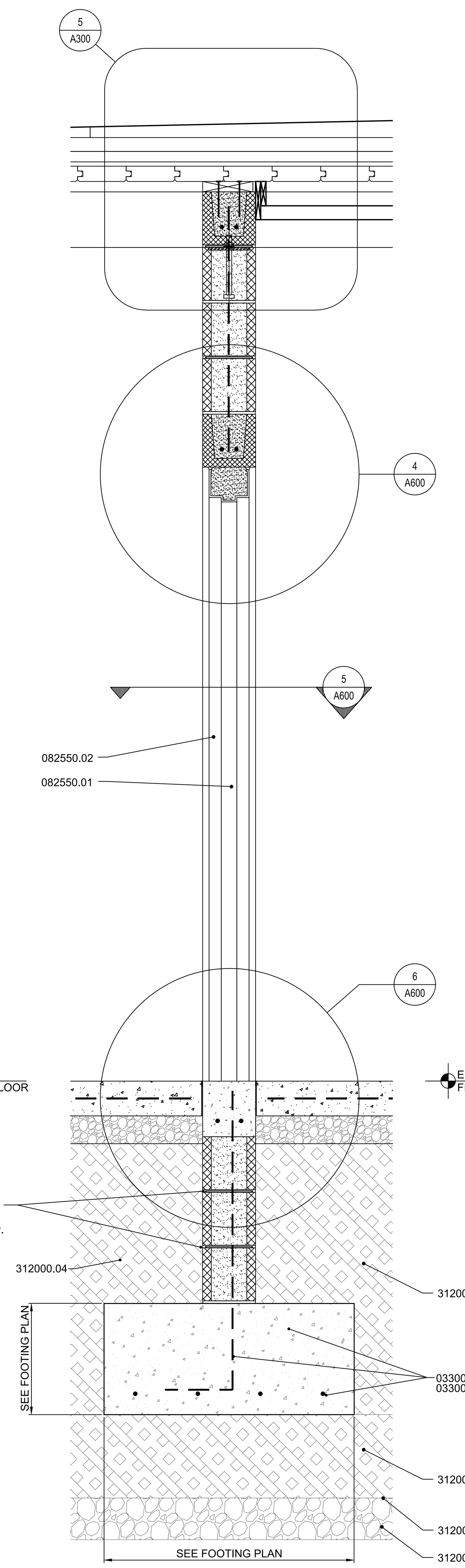


5 A300 DETAIL 3"=1'-0"



1 A300 WALL SECTION 1"=1'-0"



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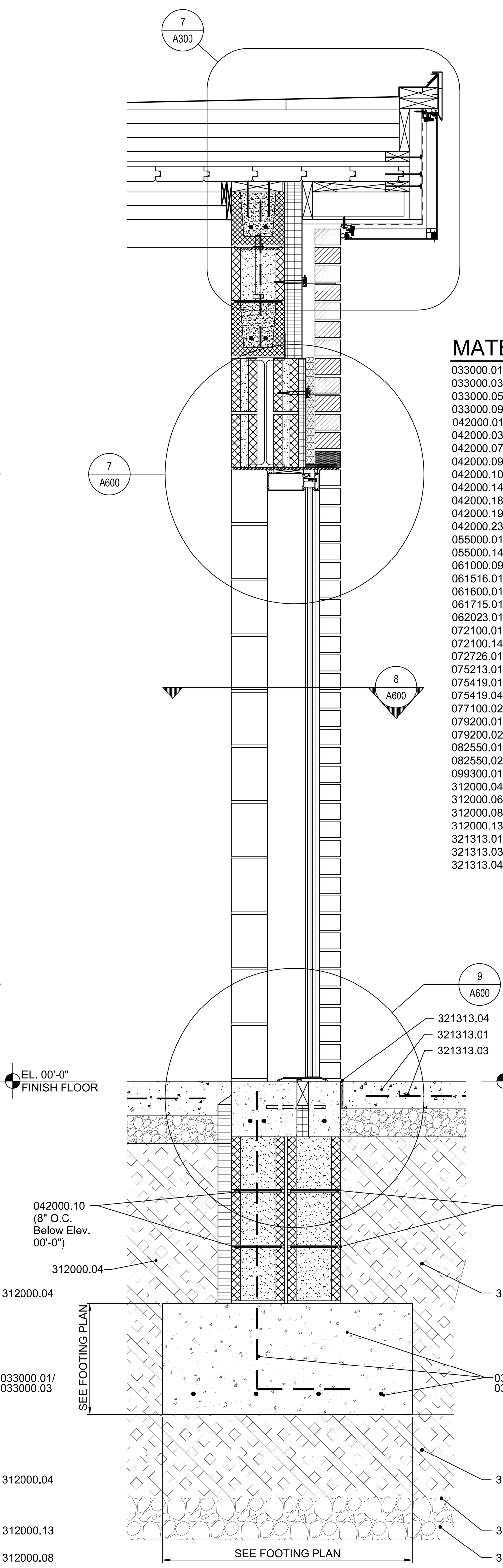
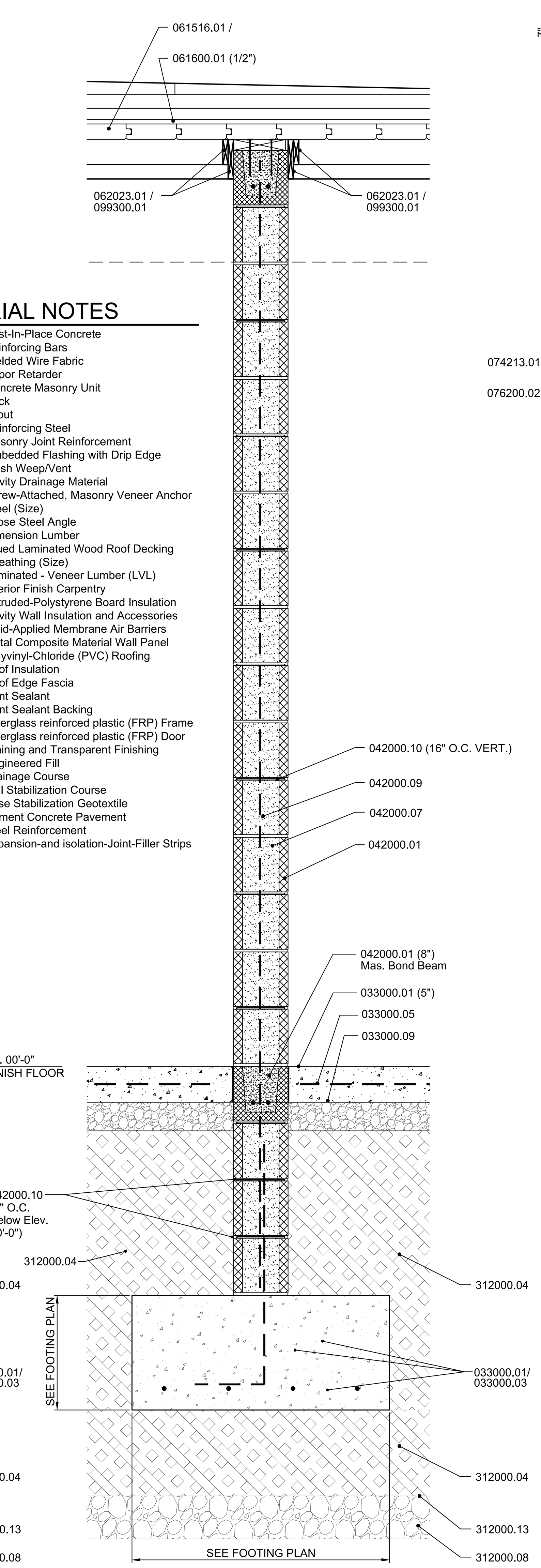


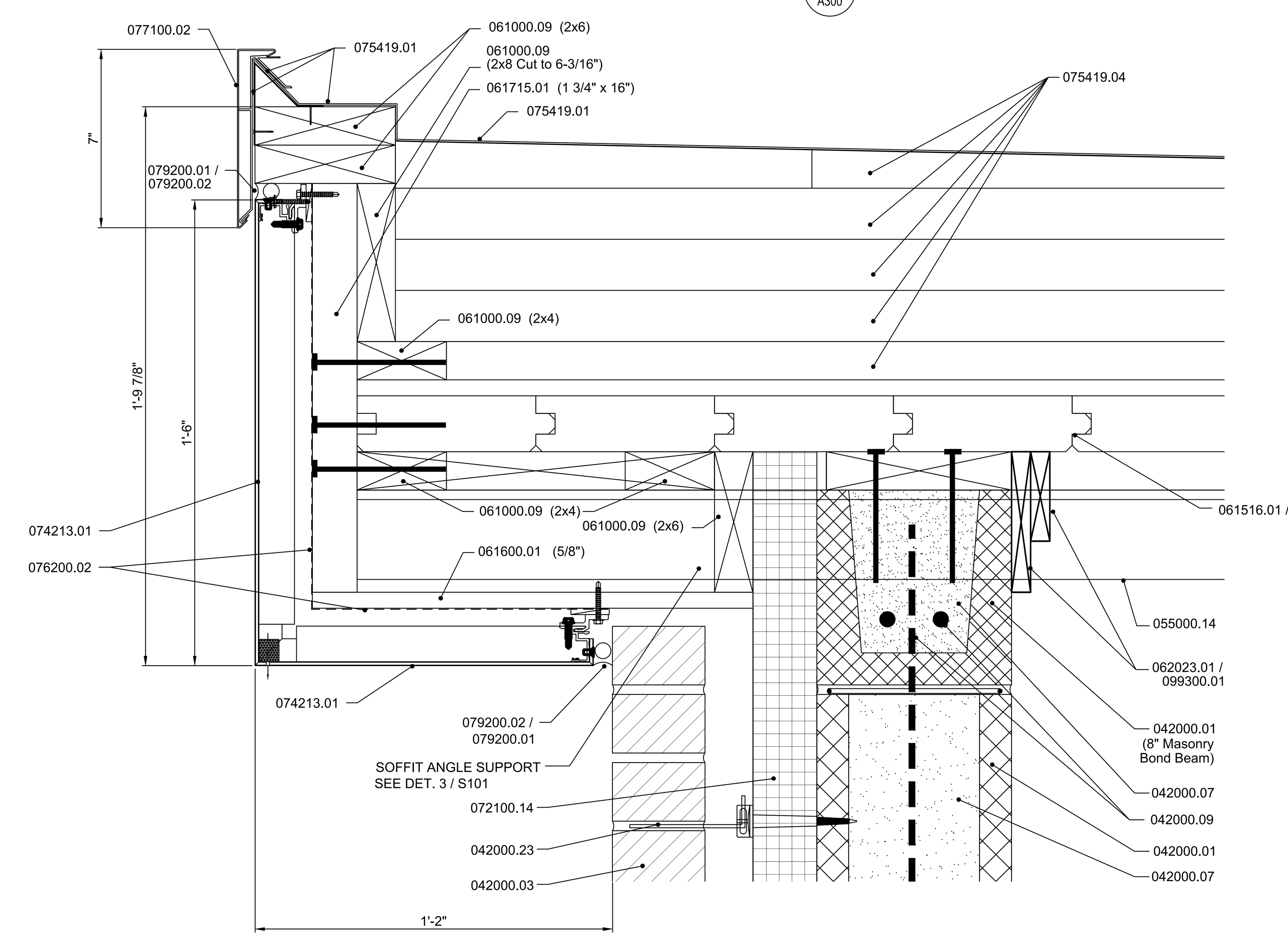
3 A300 WALL SECTION 1"=1'-0"



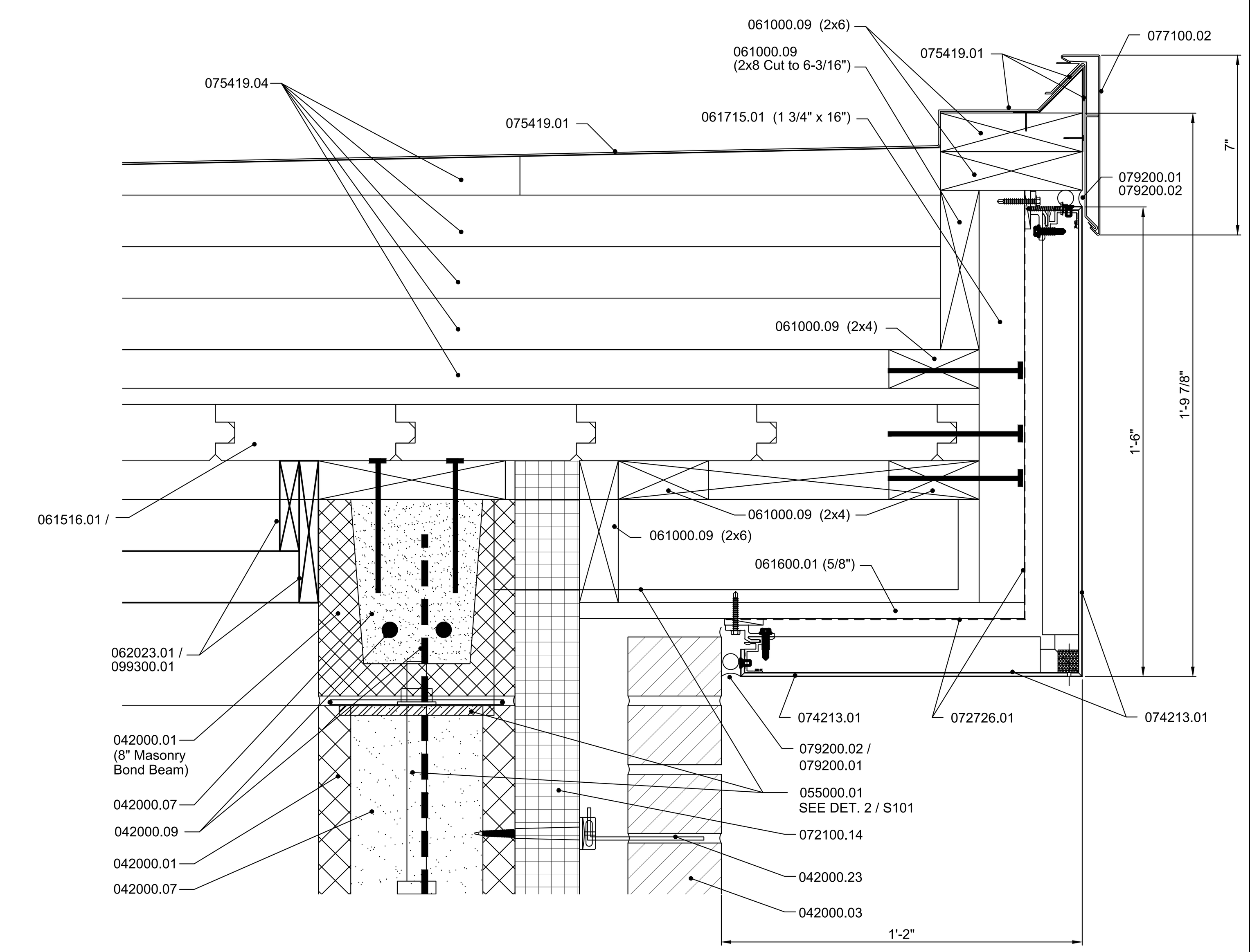
4 A300 WALL SECTION 1"=1'-0"

MATERIAL NOTES

033000.01	Cast-In-Place Concrete
033000.03	Reinforcing Bars
033000.05	Welded Wire Fabric
033000.09	Vapor Retarder
042000.01	Concrete Masonry Unit
042000.03	Brick
042000.07	Grout
042000.09	Reinforcing Steel
042000.10	Masonry Joint Reinforcement
042000.14	Embedded Flashing with Drip Edge
042000.18	Mesh Weep/Vent
042000.19	Cavity Drainage Material
042000.23	Screw-Attached, Masonry Veneer Anchor
055000.01	Steel (Size)
055000.14	Loose Steel Angle
061000.09	Dimension Lumber
061516.01	Glued Laminated Wood Roof Decking
061600.01	Sheathing (Size)
061715.01	Laminated - Veneer Lumber (LVL)
062023.01	Interior Finish Carpentry
072100.01	Extruded-Polystyrene Board Insulation
072100.14	Cavity Wall Insulation and Accessories
072726.01	Fluid-Applied Membrane Air Barriers
075213.01	Metal Composite Material Wall Panel
075419.01	Polyvinyl-Chloride (PVC) Roofing
075419.04	Roof Insulation
077100.02	Roof Edge Fascia
079200.01	Joint Sealant
079200.02	Joint Sealant Backing
082550.01	Fiberglass reinforced plastic (FRP) Frame
082550.02	Fiberglass reinforced plastic (FRP) Door
099300.01	Staining and Transparent Finishing
312000.04	Engineered Fill
312000.06	Drainage Course
312000.08	Soil Stabilization Course
312000.13	Base Stabilization Geotextile
321313.01	Cement Concrete Pavement
321313.03	Steel Reinforcement
321313.04	Expansion-and isolation-Joint-Filler Strips



6 A300 DETAIL 3"=1'-0"



7 A300 DETAIL 3"=1'-0"

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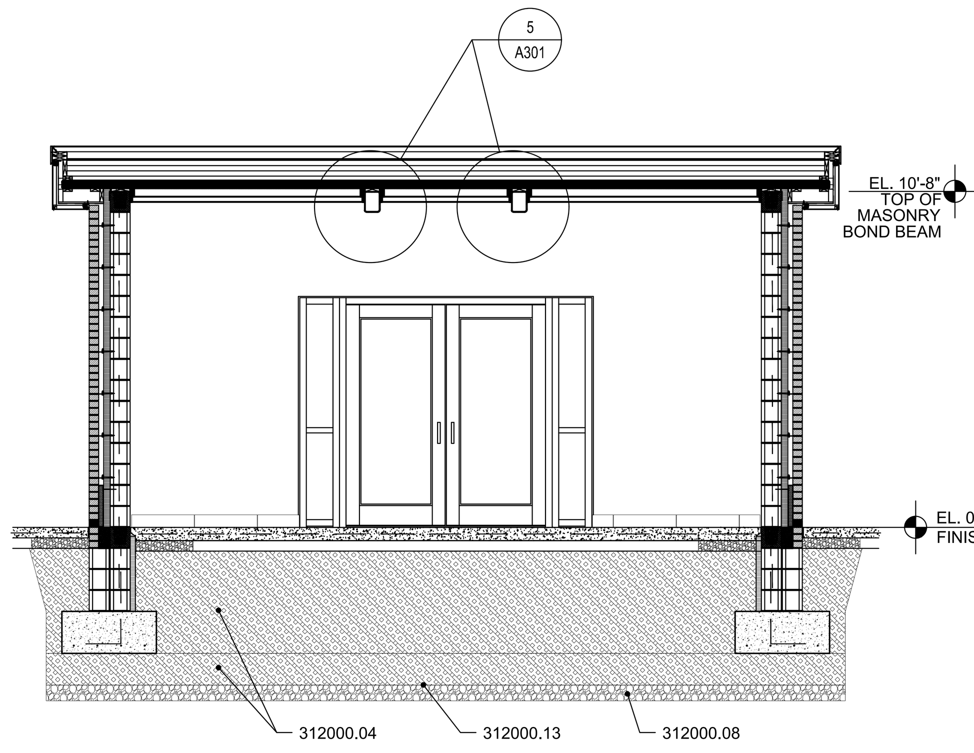
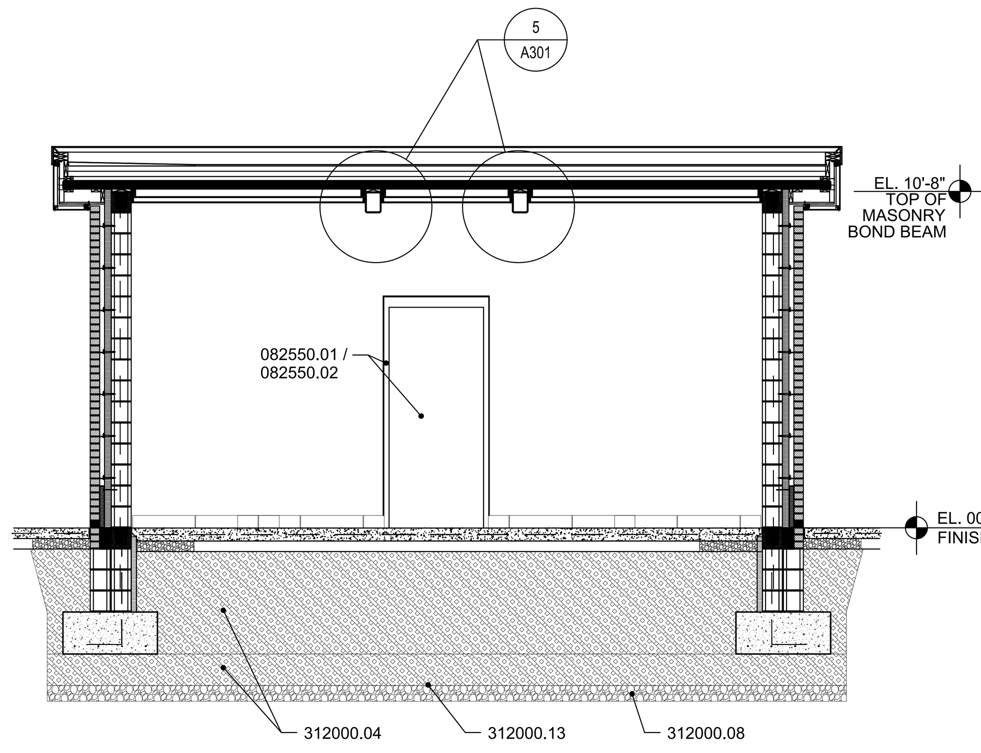


A
A301
SECTION 1/4"=1'-0"



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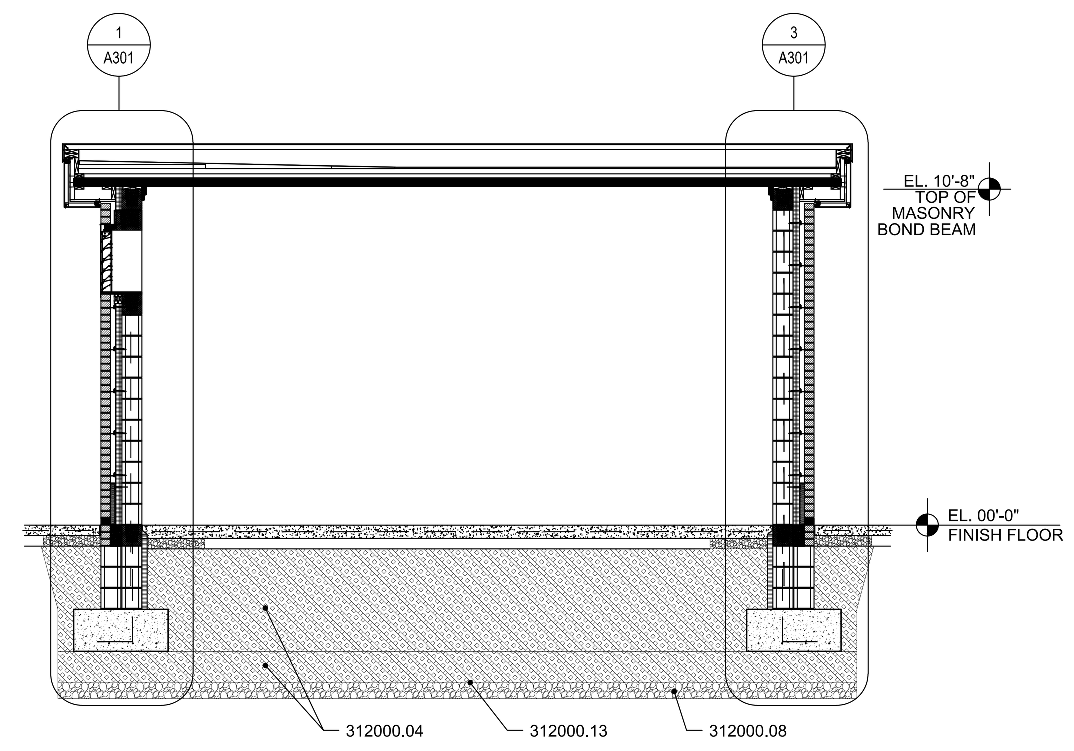
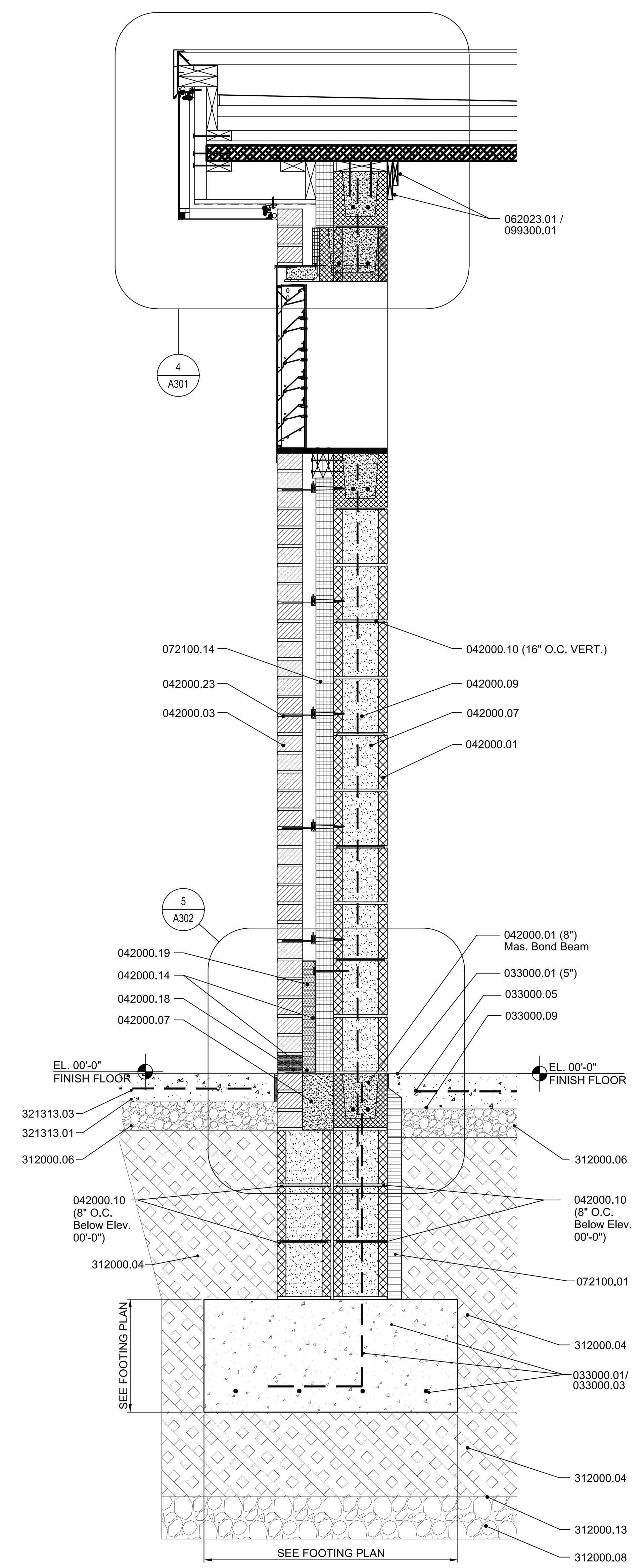


C
A301
SECTION 1/4"=1'-0"

MATERIAL NOTES

033000.01 Cast-In-Place Concrete
033000.03 Reinforcing Bars
033000.05 Welded Wire Fabric
033000.09 Vapor Retarder
042000.01 Concrete Masonry Unit
042000.03 Brick
042000.07 Grout
042000.09 Reinforcing Steel
042000.10 Masonry Joint Reinforcement
042000.14 Embedded Flashing with Drip Edge
042000.18 Mesh Weep/Vent
042000.19 Cavity Drainage Material
042000.23 Screw-Attached, Masonry Veneer Anchor
055000.01 Steel (Size)
061000.09 Dimension Lumber
061516.01 Glued Laminated Wood Roof Decking
061600.01 Sheathing (Size)
061715.01 Laminated - Veneer Lumber (LVL)
062023.01 Interior Finish Carpentry
072100.01 Extruded-Polystyrene Board Insulation
072100.14 Cavity Wall Insulation and Accessories
072726.01 Fluid-Applied Membrane Air Barriers
075213.01 Metal Composite Material Wall Panel
075419.01 Polyvinyl-Chloride (PVC) Roofing
075419.04 Roof Insulation
077100.02 Roof Edge Fascia
079200.01 Joint Sealant
079200.02 Joint Sealant Backing
082550.01 Fiberglass reinforced plastic (FRP) Frame
082550.02 Fiberglass reinforced plastic (FRP) Door
099300.01 Staining and Transparent Finishing
312000.04 Engineered Fill
312000.06 Drainage Course
312000.08 Soil Stabilization Course
312000.13 Base Stabilization Geotextile
321313.01 Cement Concrete Pavement
321313.03 Steel Reinforcement
321313.04 Expansion-and isolation-Joint-Filler Strips



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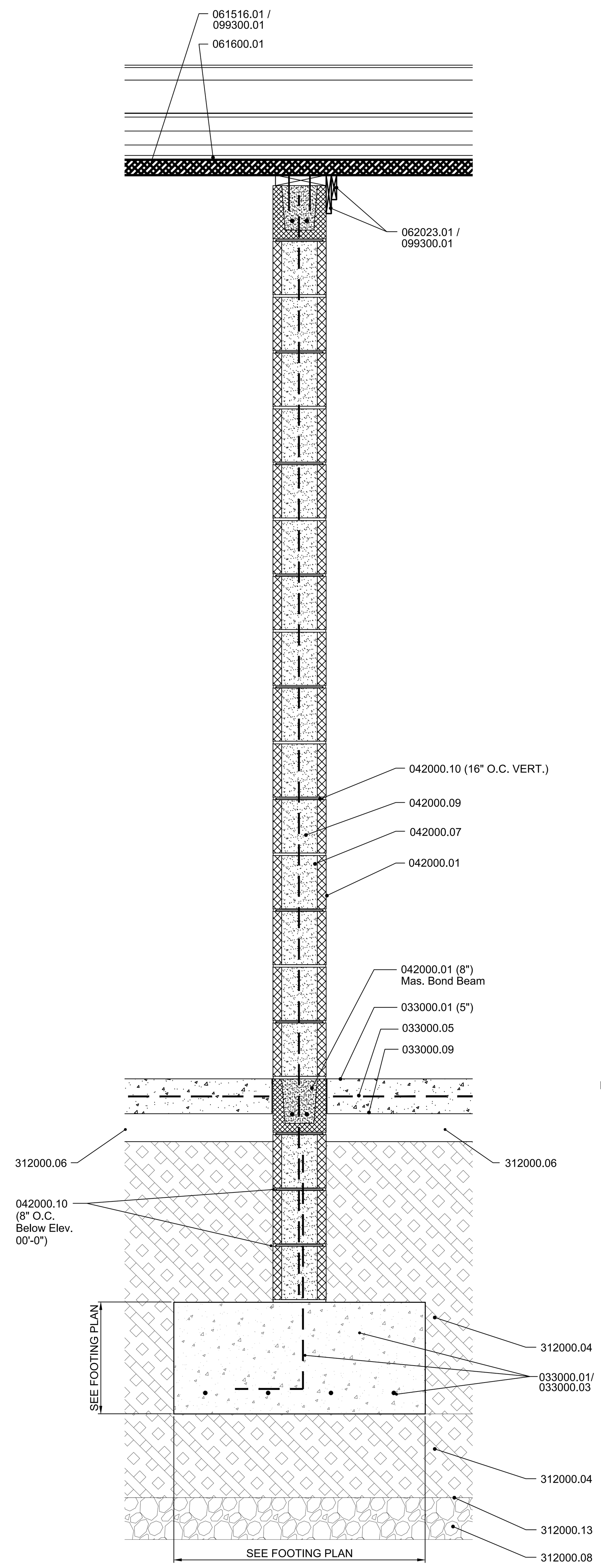

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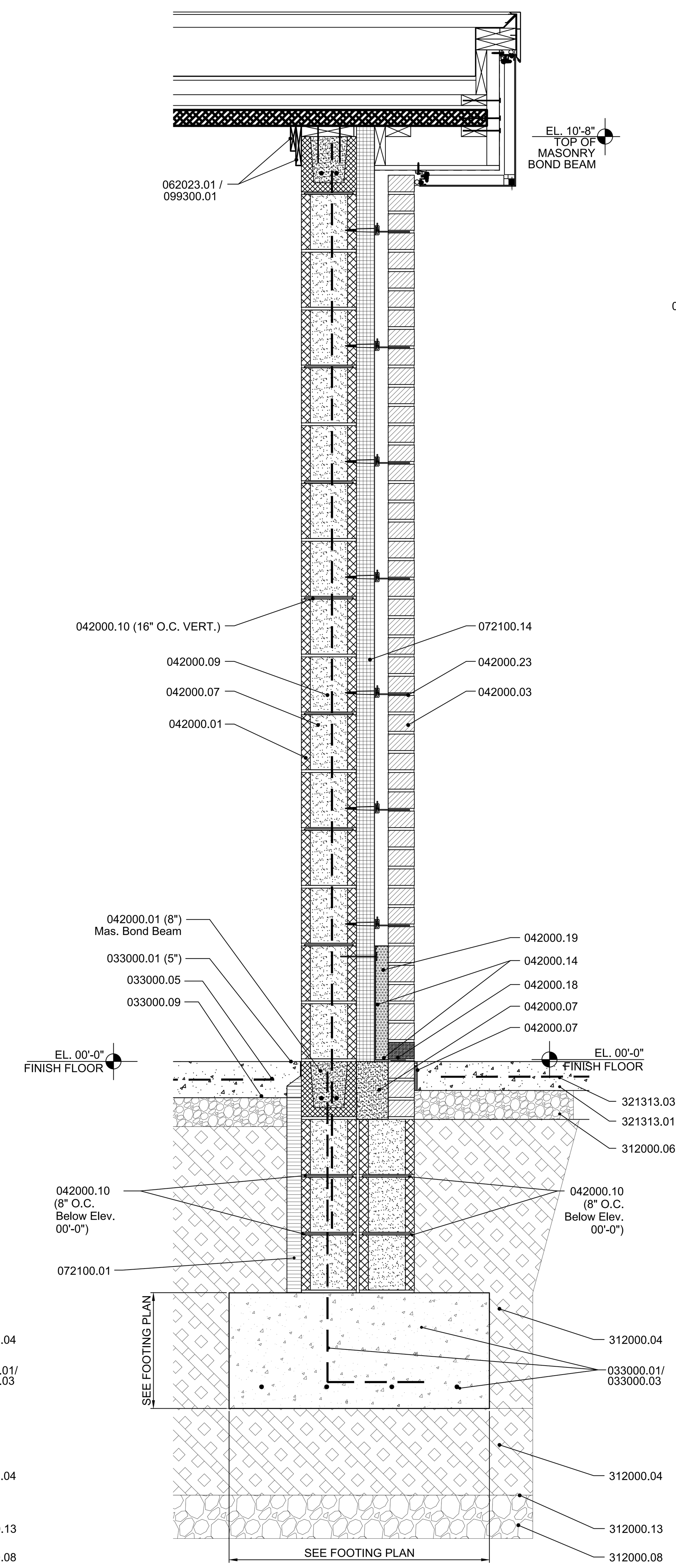

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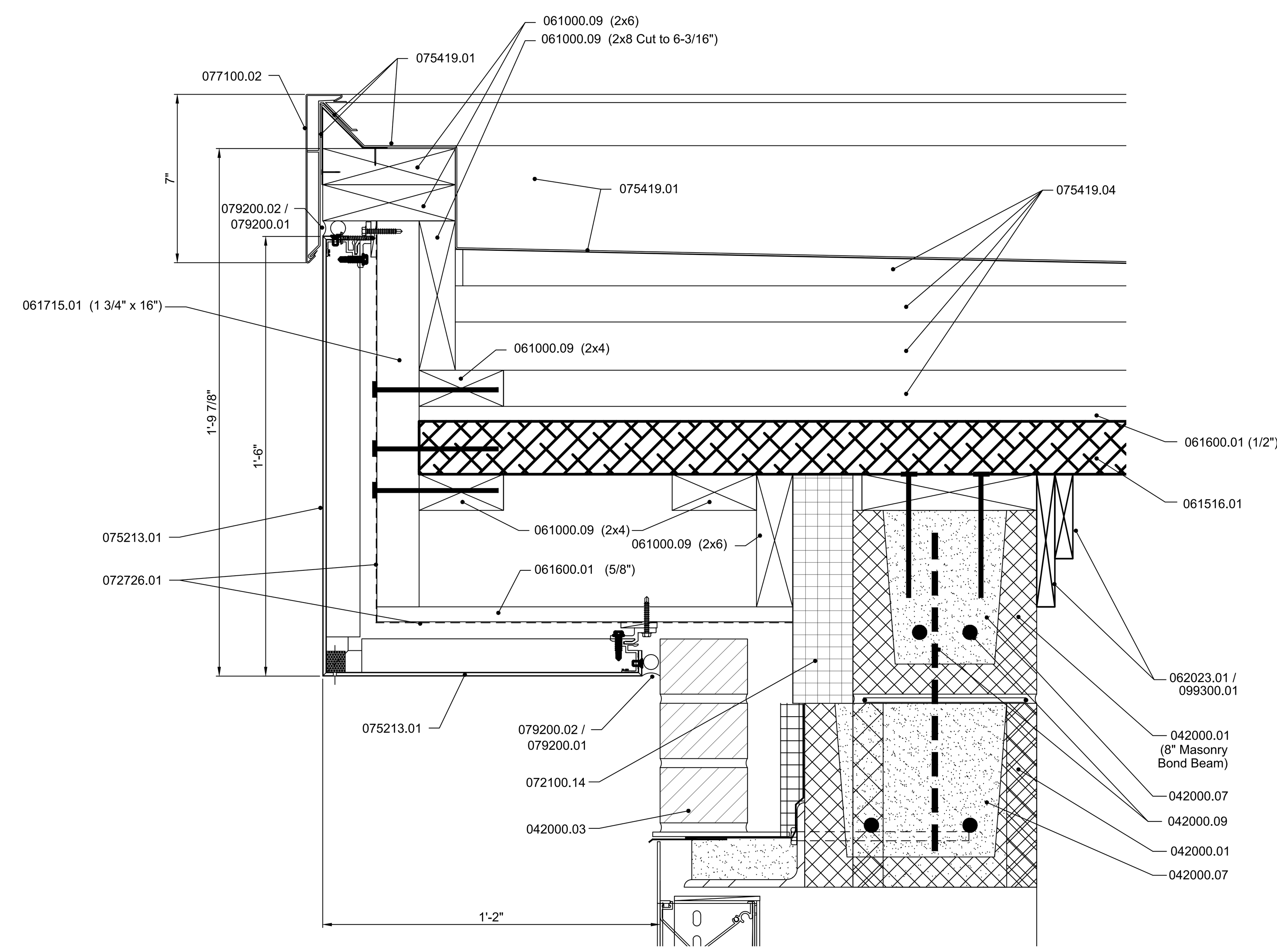

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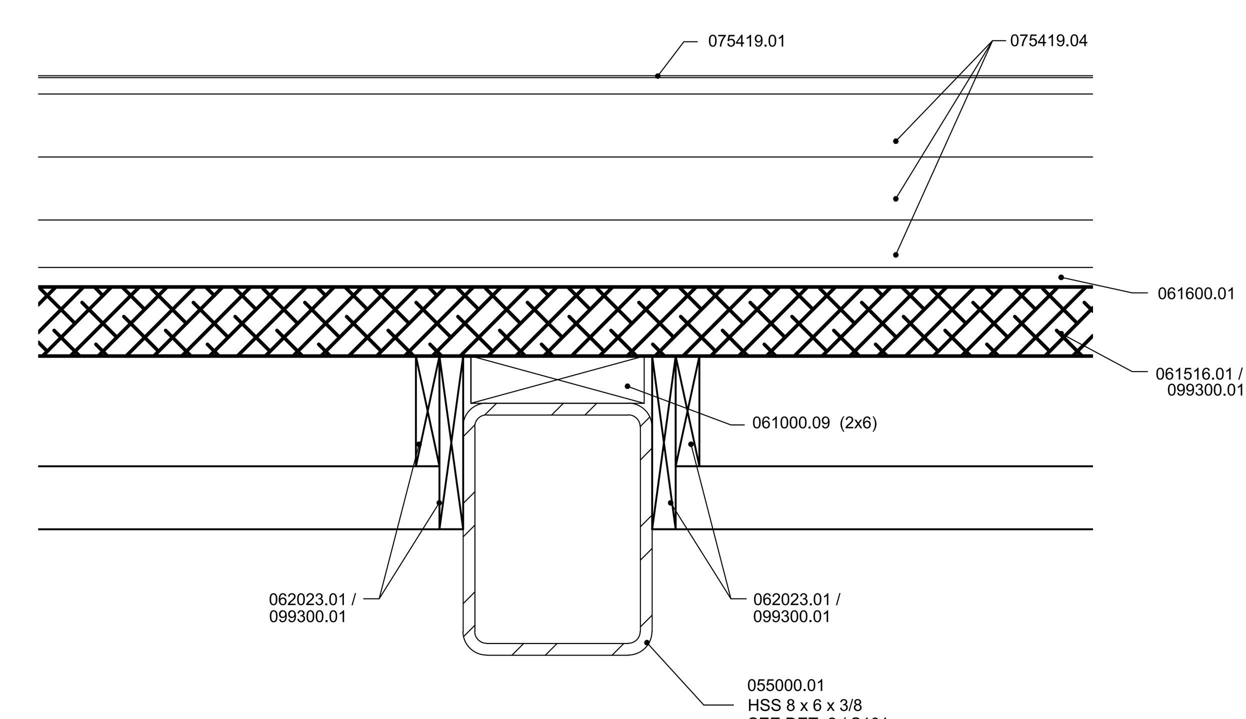

5
A301
DTEAIL 3"=1'-0"

Certified by:

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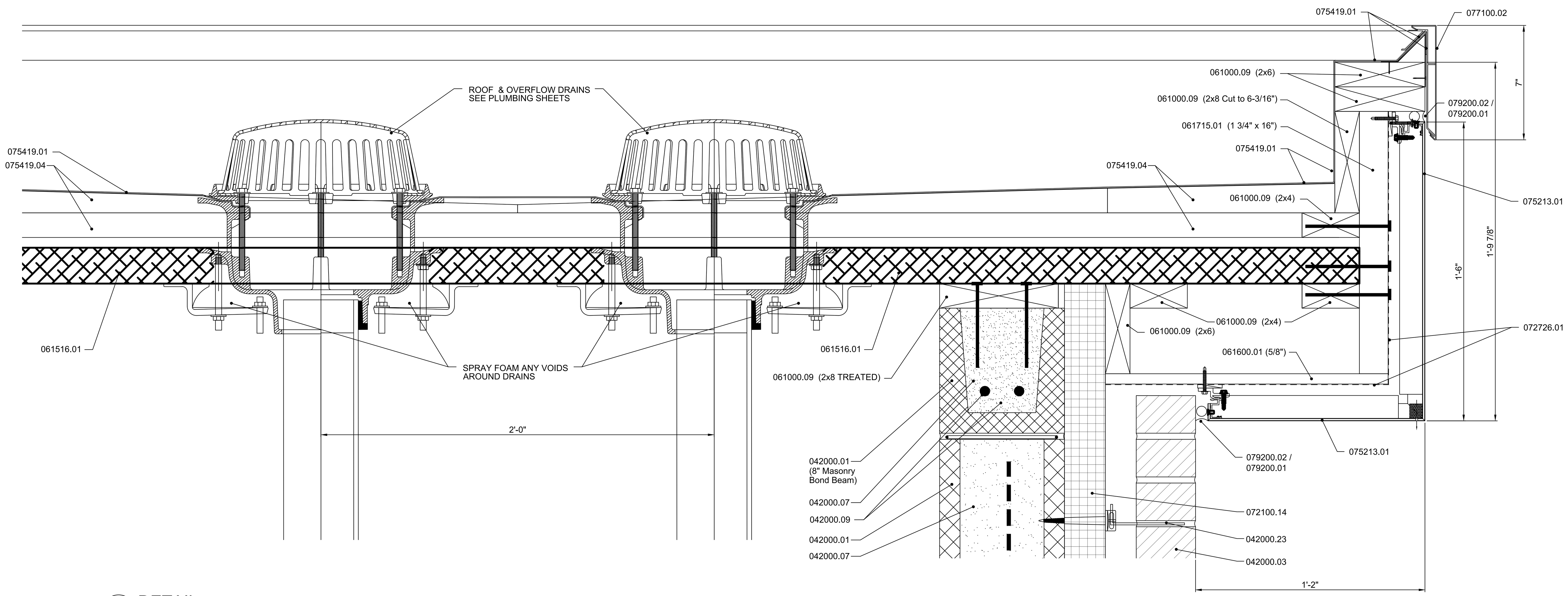
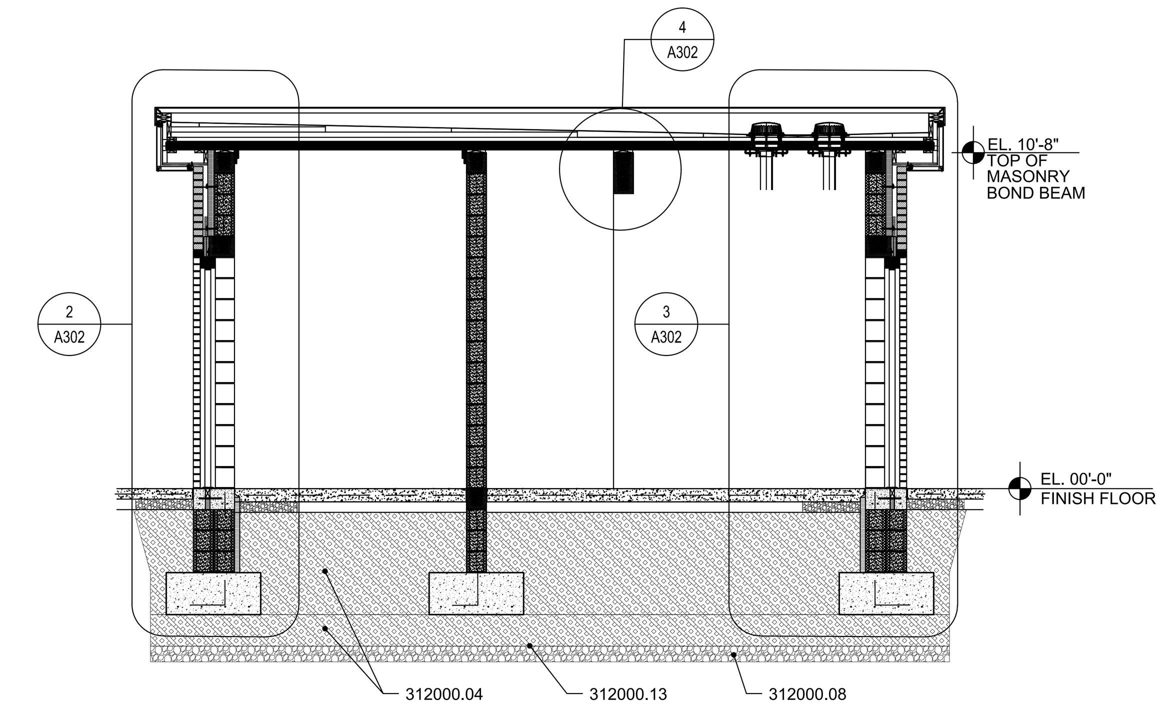
PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE NB TRUCK PARKING
TAYLORSVILLE, INDIANA

Revisions:

Project Number: 03003001-24-025-D1
Requisition Number:
Account Number:
Designer:
Drawing Date: SEP 2024
Drafter:
Drawing Scale:
DAPW Approval:
Client Approval:
Reference Number: 1385N
Building Reference: TR
Drawing Number: A301
Sheet: 10 of 22



1 A302 DETAIL 3"=1'-0"



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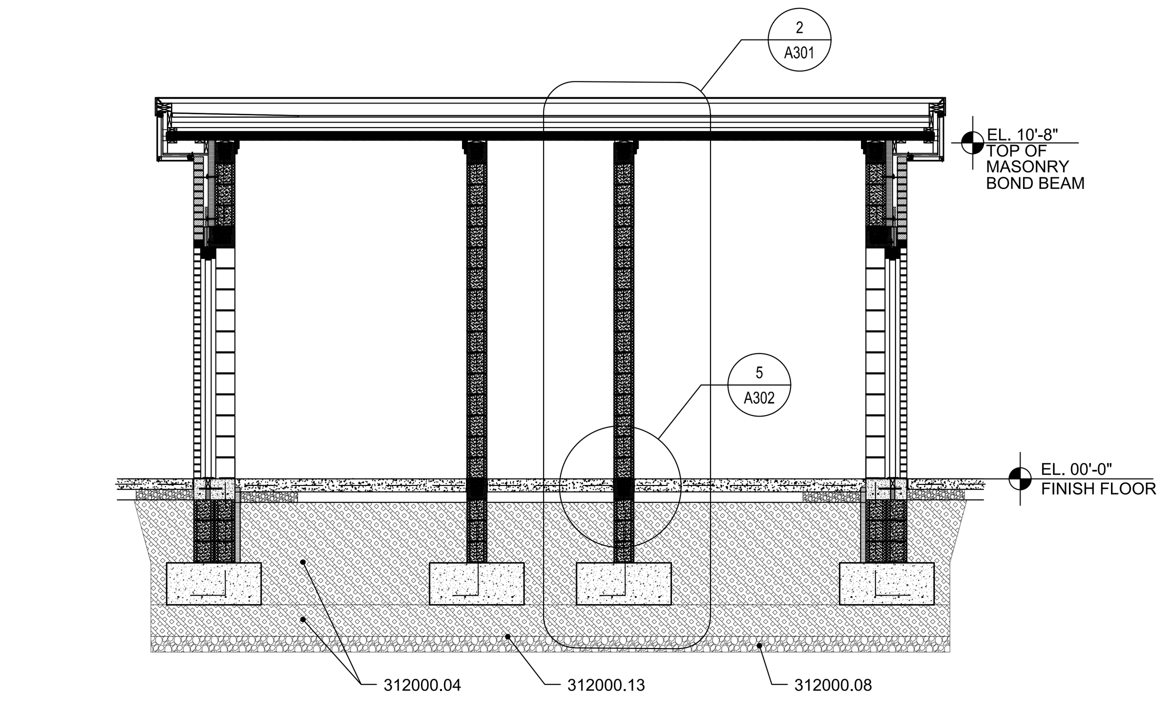

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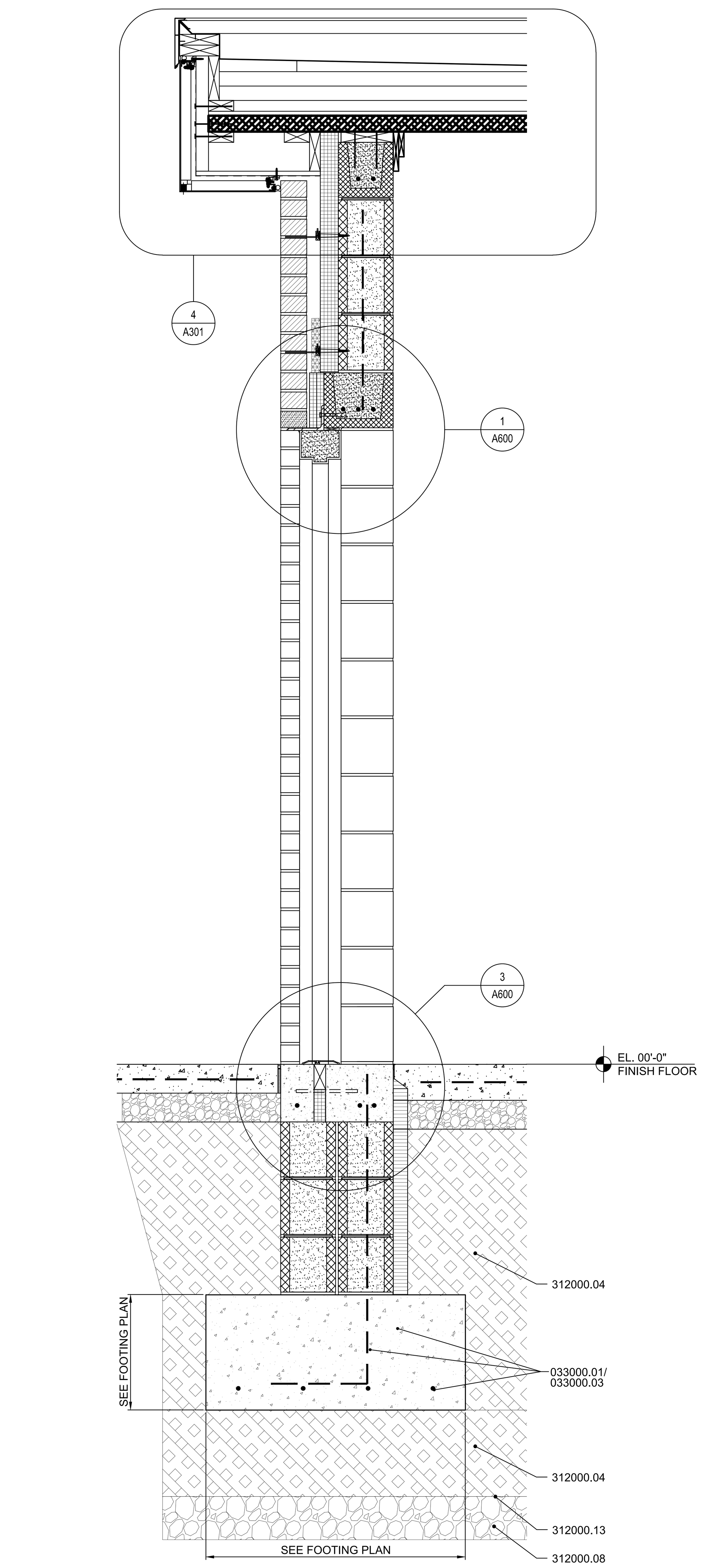

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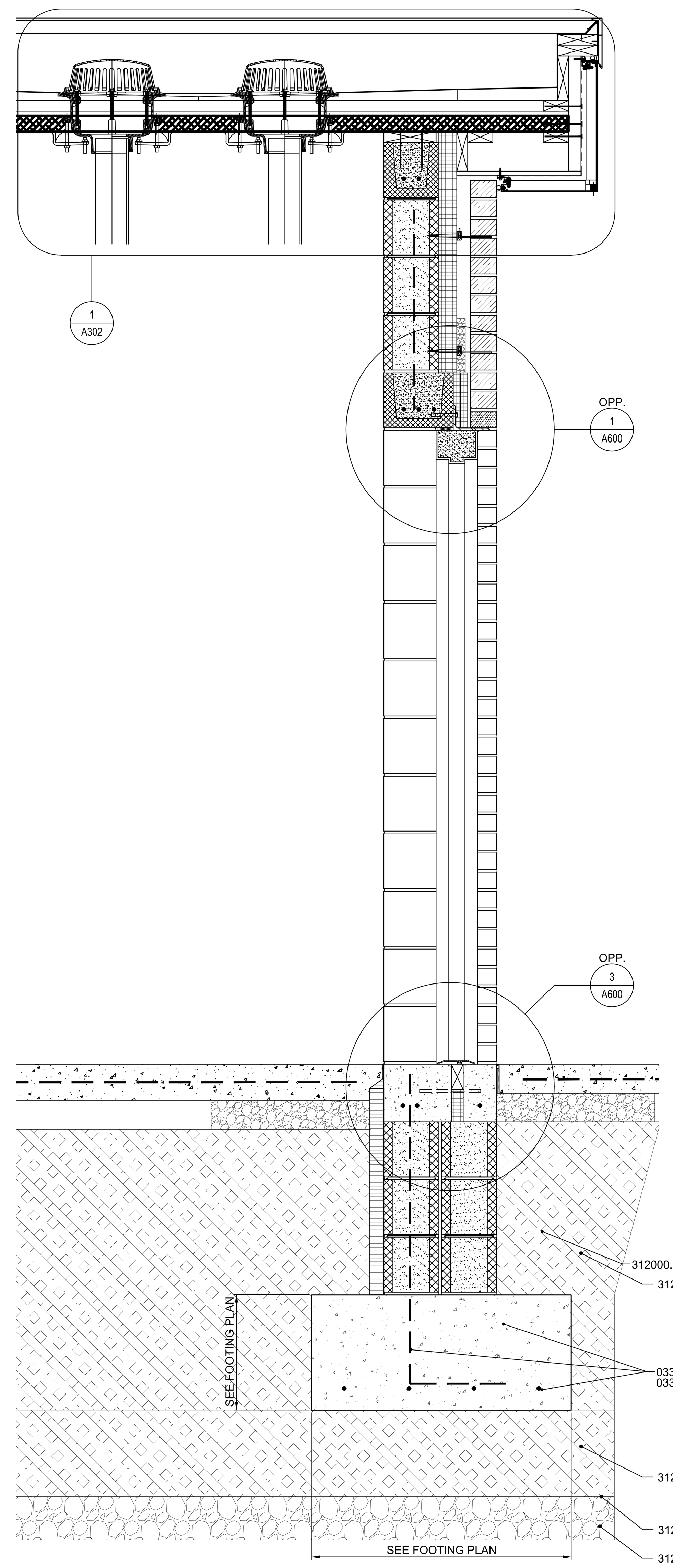

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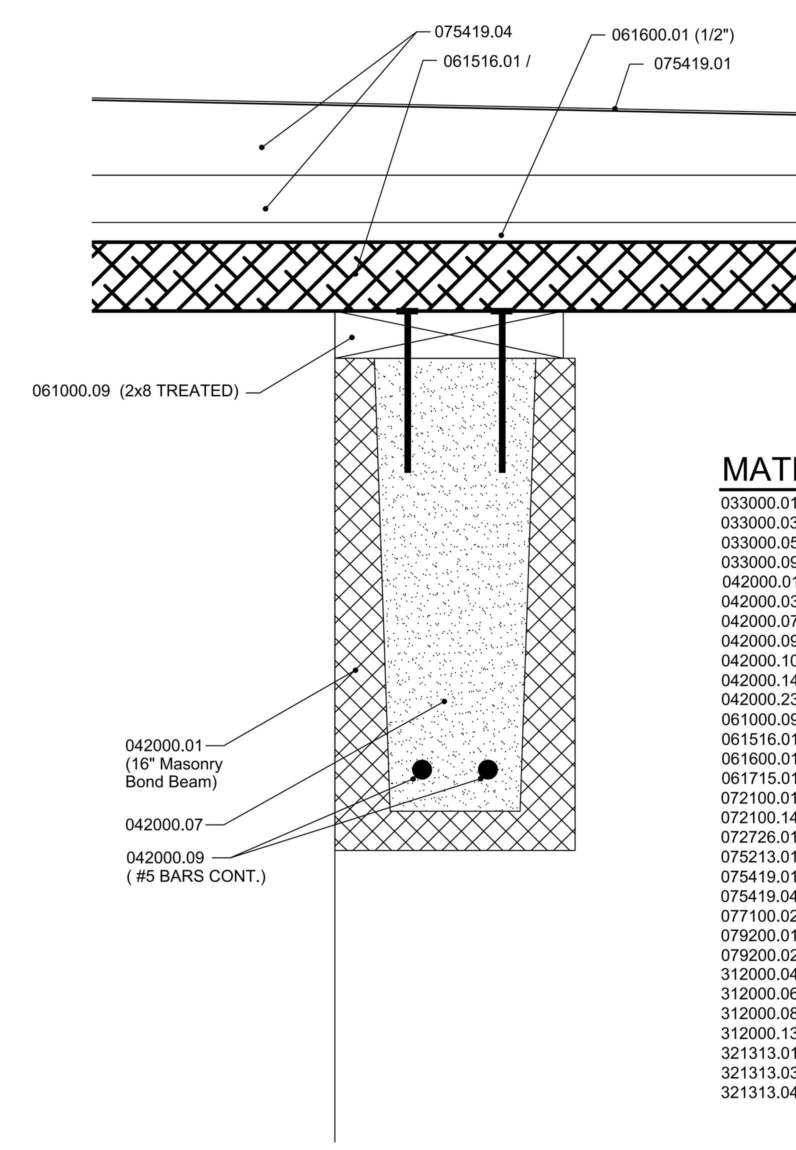
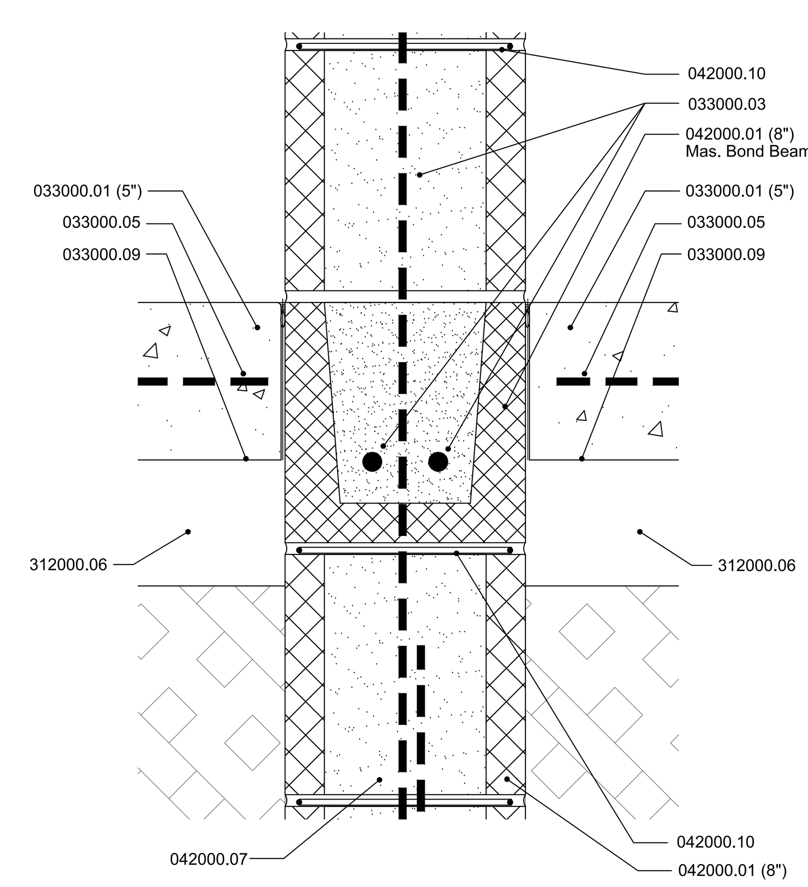


4 A302 DETAIL 3"=1'-0"

MATERIAL NOTES

033000.01	Cast-In-Place Concrete
033000.03	Reinforcing Bars
033000.05	Welded Wire Fabric
033000.09	Vapor Retarder
042000.01	Concrete Masonry Unit
042000.03	Brick
042000.07	Grout
042000.09	Reinforcing Steel
042000.10	Masonry Joint Reinforcement
042000.14	Embedded Flashing with Drip Edge
042000.23	Screw-Attached, Masonry Veneer Anchor
061000.09	Dimension Lumber
061516.01	Glued Laminated Wood Roof Decking
061600.01	Sheathing (Size)
061715.01	Laminated - Veneer Lumber (LVL)
072100.01	Extruded-Polystyrene Board Insulation
072100.14	Cavity Wall Insulation and Accessories
072726.01	Fluid-Applied Membrane Air Barriers
075213.01	Metal Composite Material Wall Panel
075419.01	Polyvinyl-Chloride (PVC) Roofing
075419.04	Roof Insulation
077100.02	Roof Edge Fascia
079200.01	Joint Sealant
079200.02	Joint Sealant Backing
312000.04	Engineered Fill
312000.06	Drainage Course
312000.08	Soil Stabilization Course
312000.13	Base Stabilization Geotextile
321313.01	Cement Concrete Pavement
321313.03	Steel Reinforcement
321313.04	Expansion-and isolation-Joint-Filler Strips



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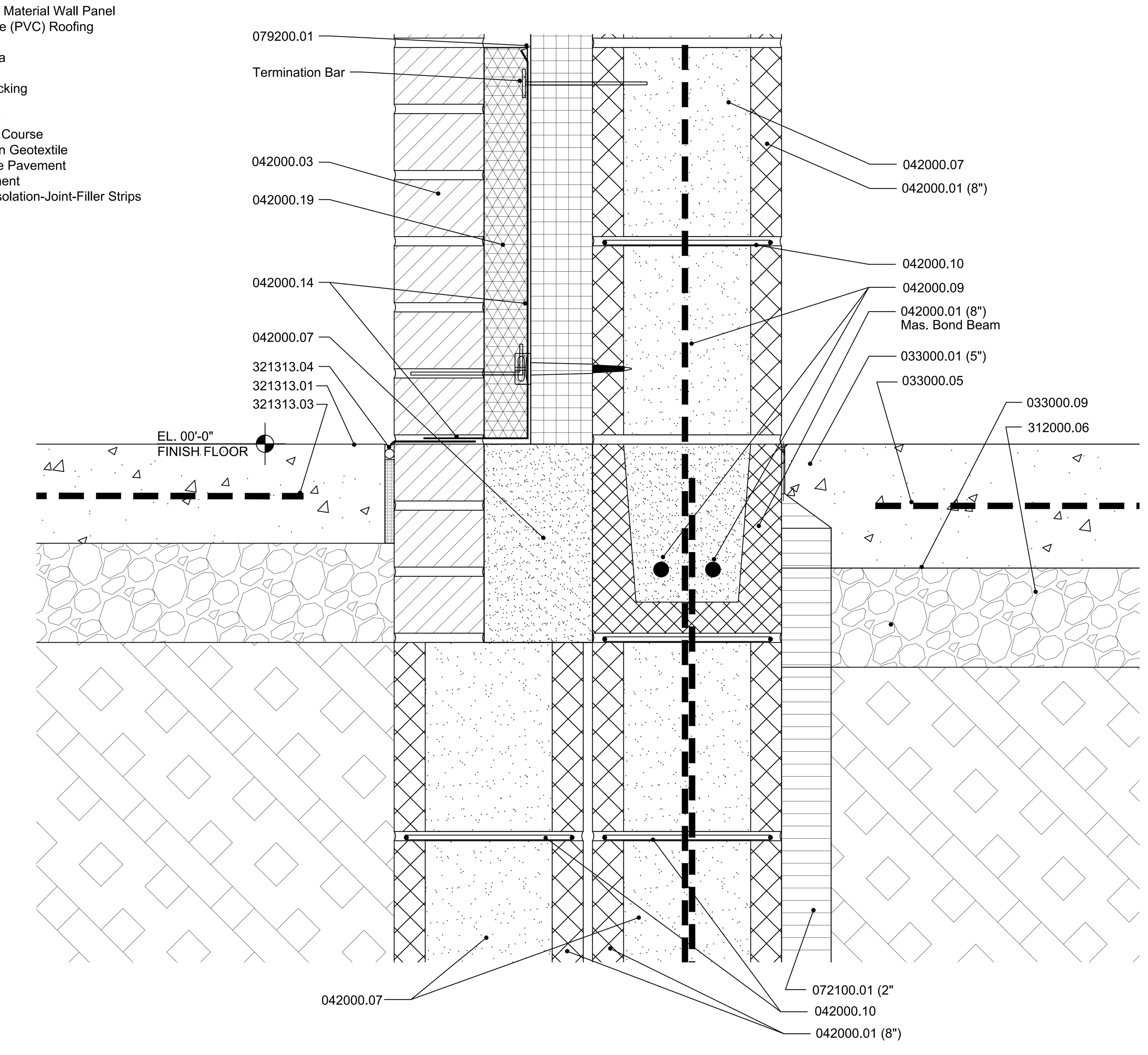

6 A302 DETAIL 3"=1'-0"

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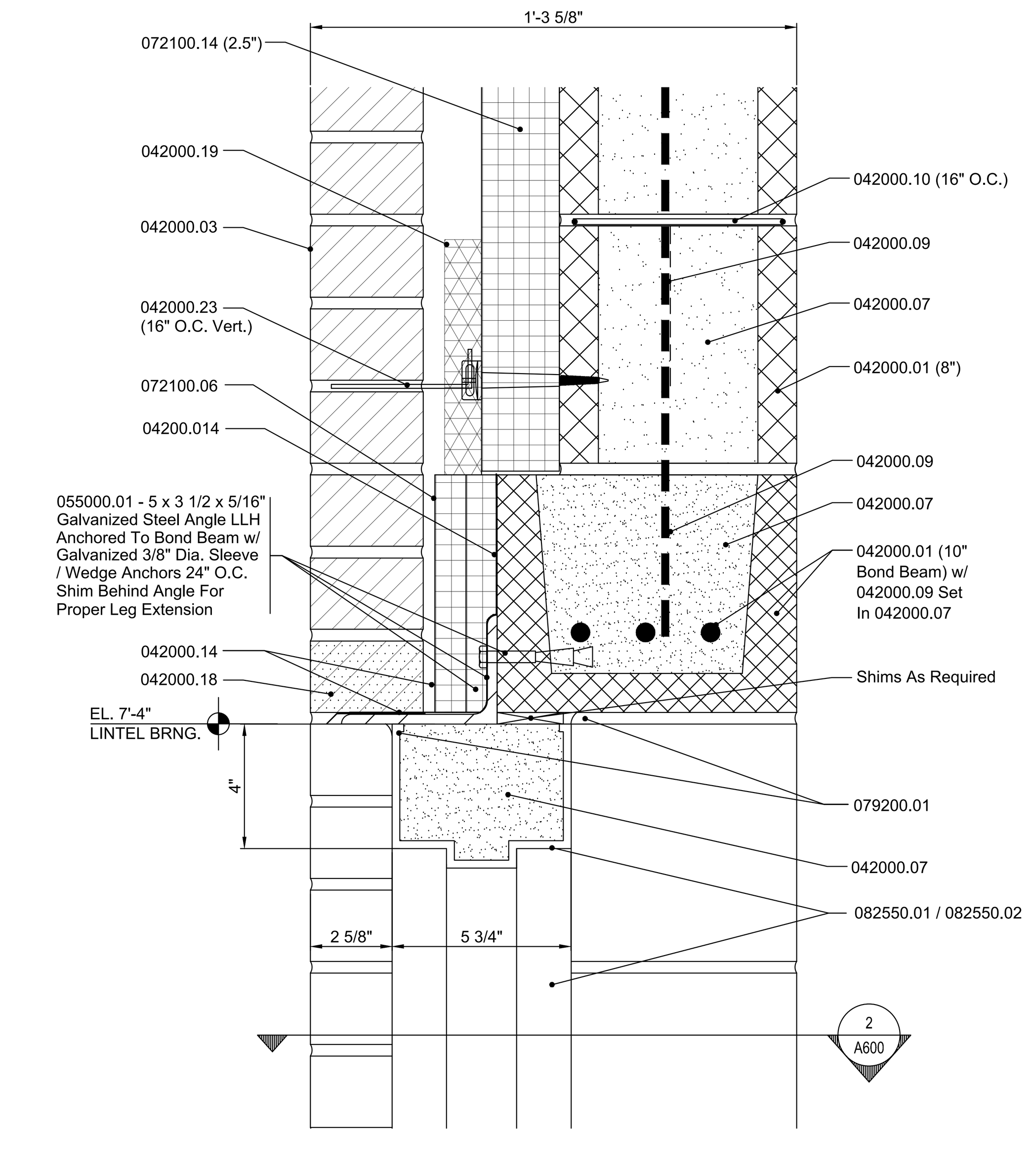
PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE NB TRUCK PARKING
TAYLORSVILLE, INDIANA

IDOA

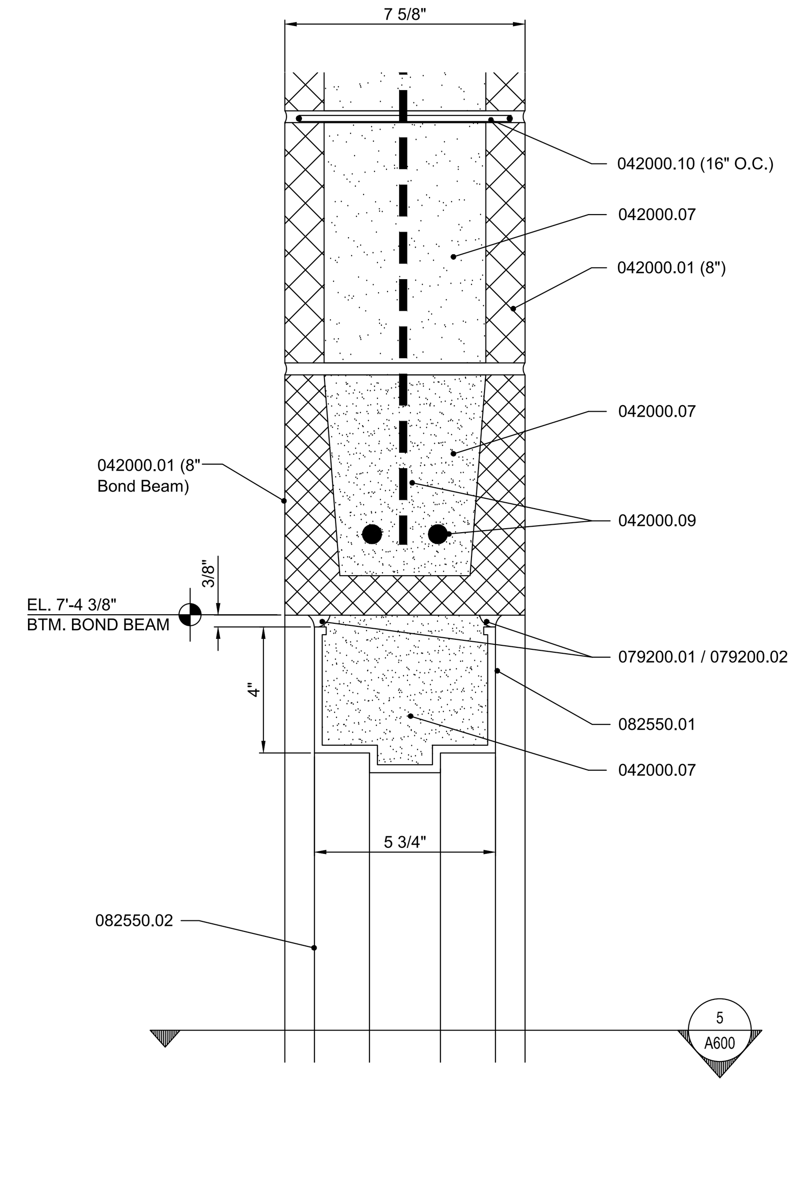
INDIANA DEPARTMENT OF TRANSPORTATION INDOT

Revisions:

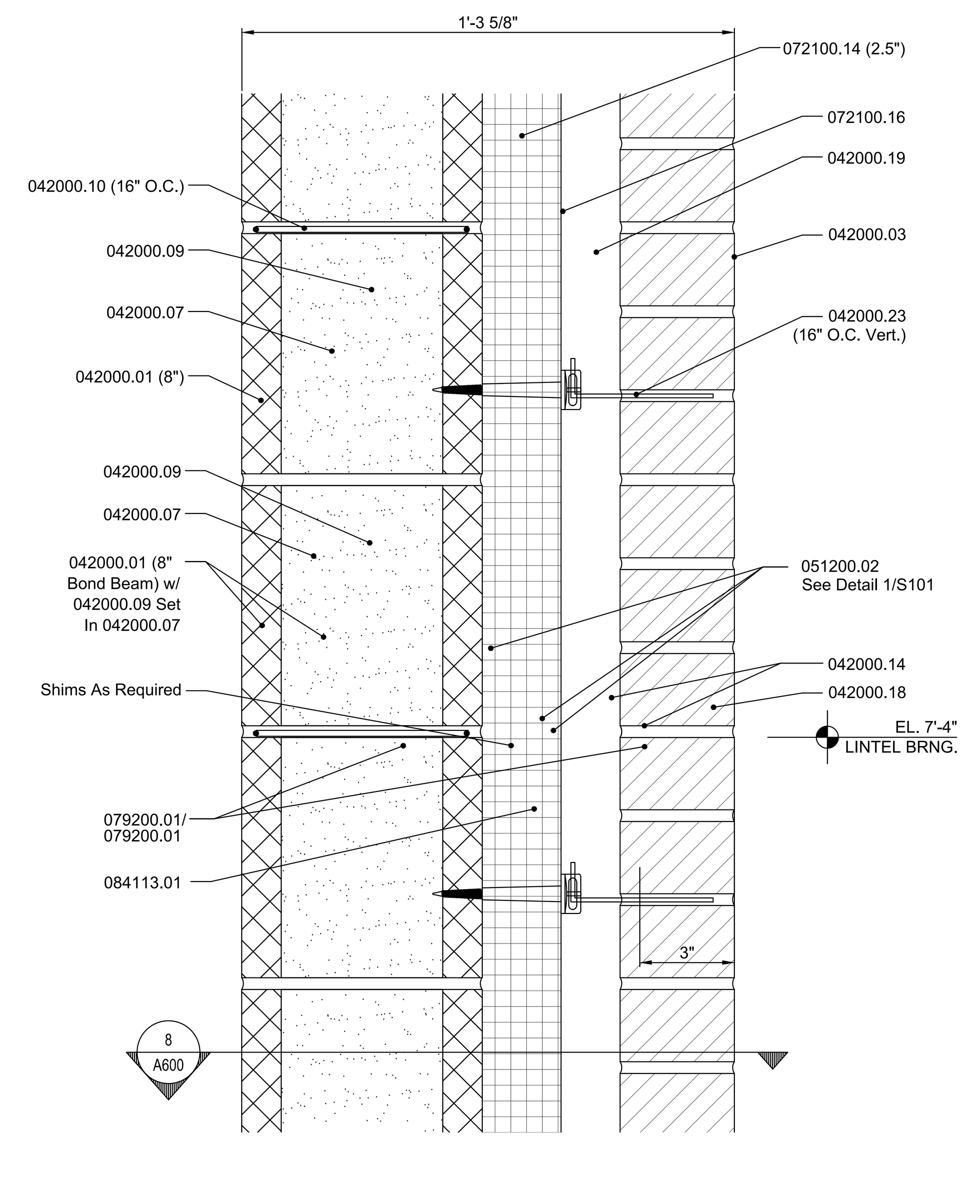
Project Number: 03003001-24-025-D1	
Requisition Number:	
Account Number:	
Designer:	Drawing Date: SEP 2024
Drafter:	Drawing Scale:
DAPW Approval:	
Client Approval:	
Reference Number:	1385N
Building Reference:	TR
Drawing Number:	A302
Sheet: 11 of 22	



1 A600 DOOR HEAD DETAIL 3"=1'-0"



4 A600 DOOR HEAD DETAIL 3"=1'-0"

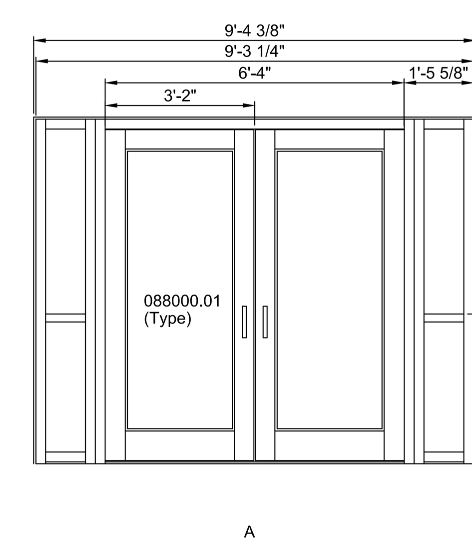


7 A600 DOOR HEAD DETAIL 3"=1'-0"

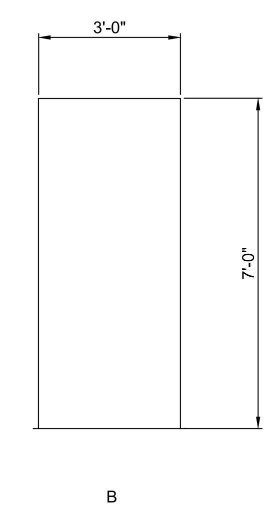
DOOR SCHEDULE								
DOOR NUMBER	DOOR SIZE	DOOR ELEV.	DOOR MAT'L.	DOOR HDWRE.	GLASS TYPE	FRAME ELEV.	FRAME DETAILS	REMARKS
101	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
102	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
103	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
104	3'-0" x 7'-0" x 1 3/4"	B	FRP	3	-	1	1/A600, 2/A600, 3/A600	
105	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
106	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
107	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
108	3'-0" x 7'-0" x 1 3/4"	B	FRP	4	-	1	1/A600, 2/A600, 3/A600	
109	3'-0" x 7'-0" x 1 3/4"	B	FRP	2	-	1	4/A600, 5/A600, 6A/A600	
110	3'-2" x 7'-0" x 1 3/4"	A	ALUM	1	-	A	7/A600, 8/A600, 9A/A600	PAIR

MATERIAL NOTES

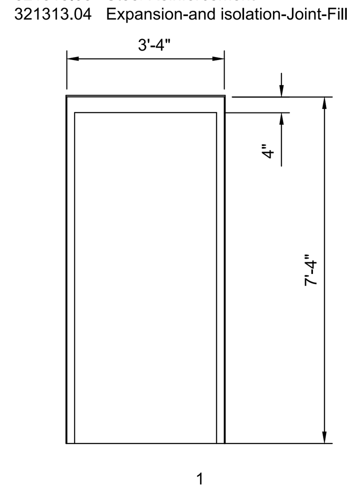
033000.01 Cast-In-Place Concrete
033000.03 Reinforcing Bars
033000.05 Welded Wire Fabric
033000.09 Vapor Retarder
033000.12 Floor and Slab Treatment
033543.01 Polish Concrete Finishing
042000.01 Concrete Masonry Unit
042000.03 Brick
042000.07 Grout
042000.09 Reinforcing Steel
042000.10 Masonry Joint Reinforcement
042000.14 Embedded Flashing with Drip Edge
042000.18 Mesh Weep/Vent
042000.19 Cavity Drainage Material
042000.23 Screw-Attached, Masonry Veneer Anchor
061000.09 Dimension Lumber
061600.01 Sheathing (Size)
072100.01 Extruded-Polystyrene Board Insulation
072100.14 Cavity Wall Insulation and Accessories
072100.16 Seam Sealant and Transition Material
076200.01 Sheet Metal Trim
079200.01 Joint Sealant
079200.02 Joint Sealant Backing
082550.01 Fiberglass reinforced plastic (FRP) Frame
082550.02 Fiberglass reinforced plastic (FRP) Door
084113.01 Aluminum Entrance Doors
087000.01 Door Hardware
088000.01 Glazing
099600.01 High-Performance Coating
312000.04 Engineered Fill
312000.06 Drainage Course
321313.01 Cement Concrete Pavement
321313.03 Steel Reinforcement
321313.04 Expansion-and isolation-Joint-Filler Strips



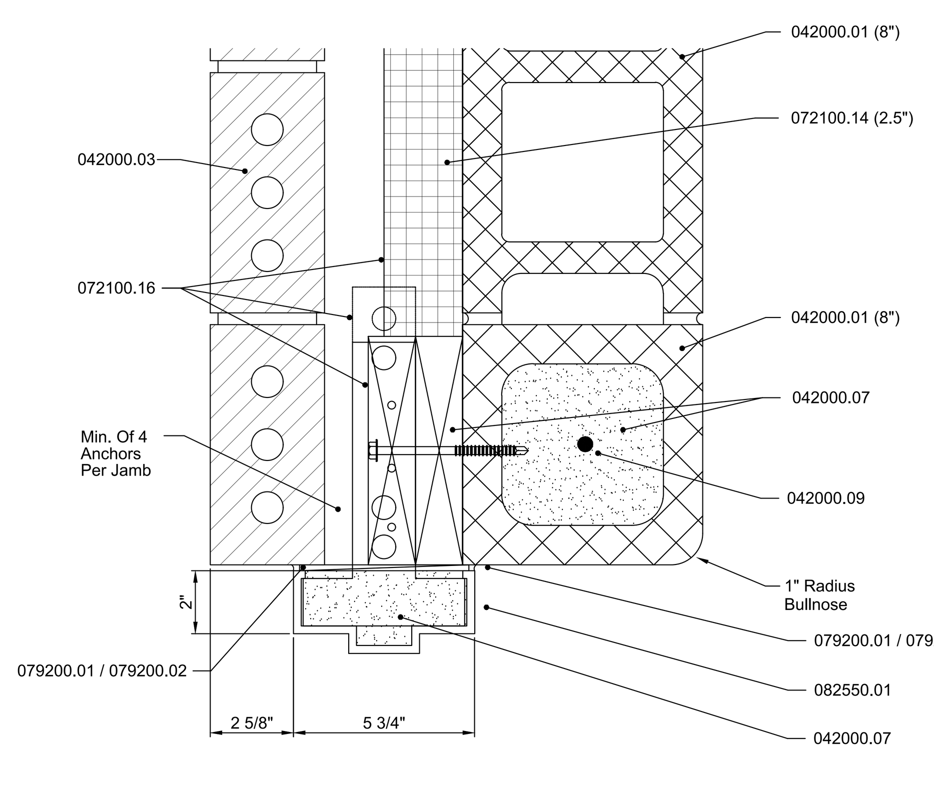
DOOR ELEVATIONS
3/8"=1'-0"
(NOTE: SEE SCHEDULE ABOVE FOR DOOR SIZES)



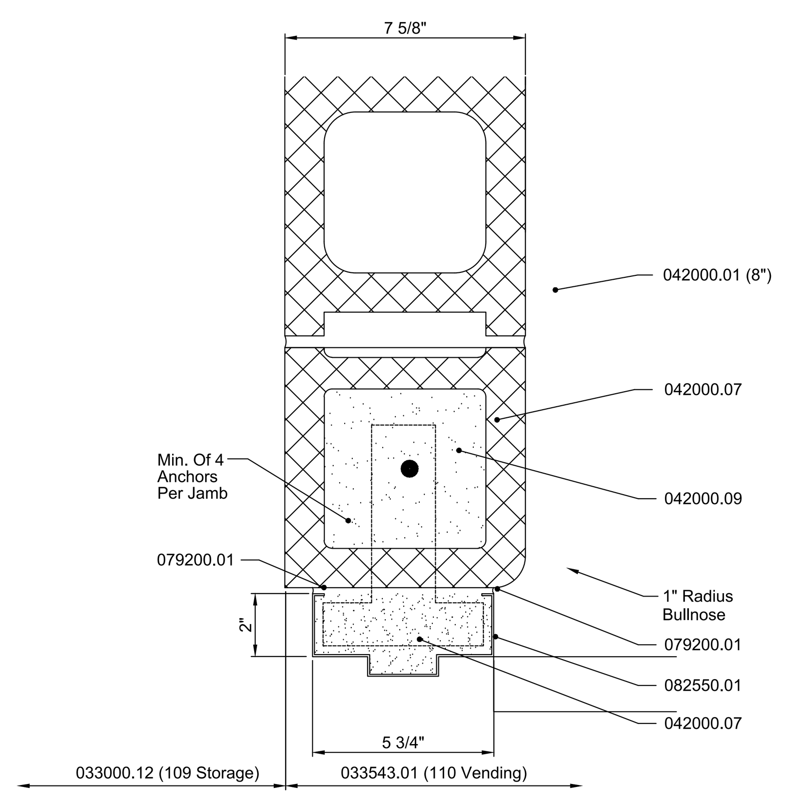
DOOR ELEVATIONS
3/8"=1'-0"
(NOTE: SEE SCHEDULE ABOVE FOR DOOR SIZES)



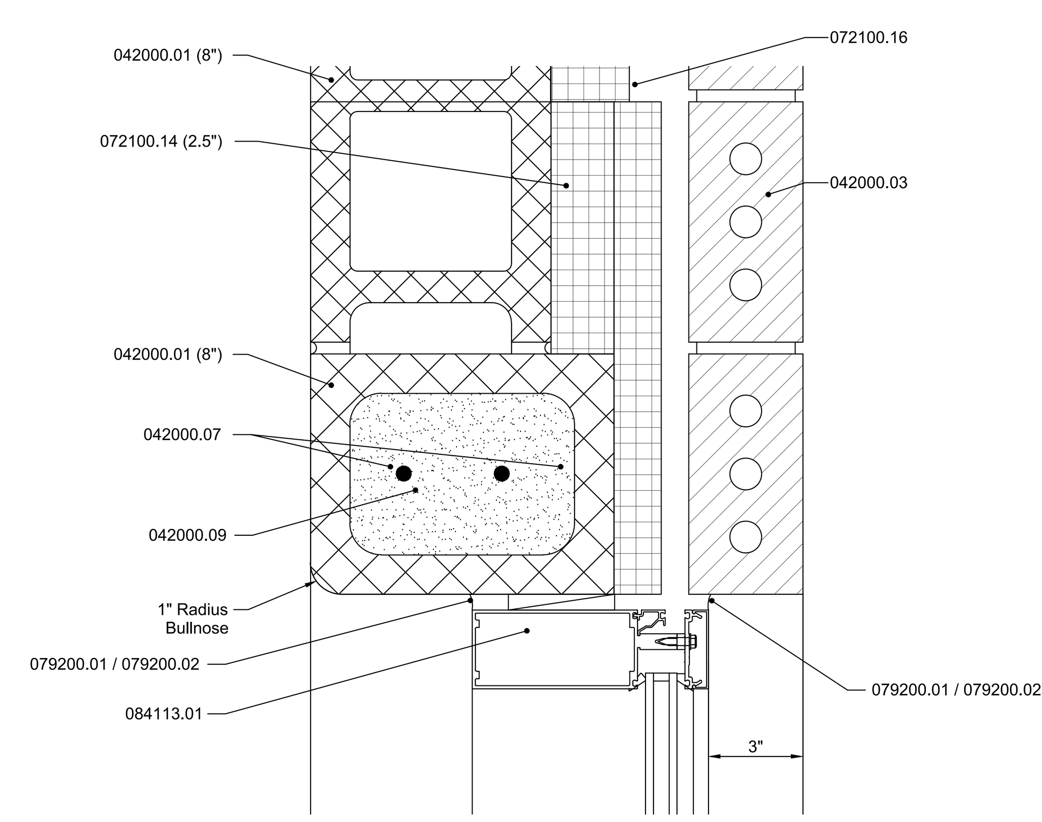
FRAME ELEVATIONS
3/8"=1'-0"
(NOTE: SEE SCHEDULE ABOVE FOR DOOR SIZES)



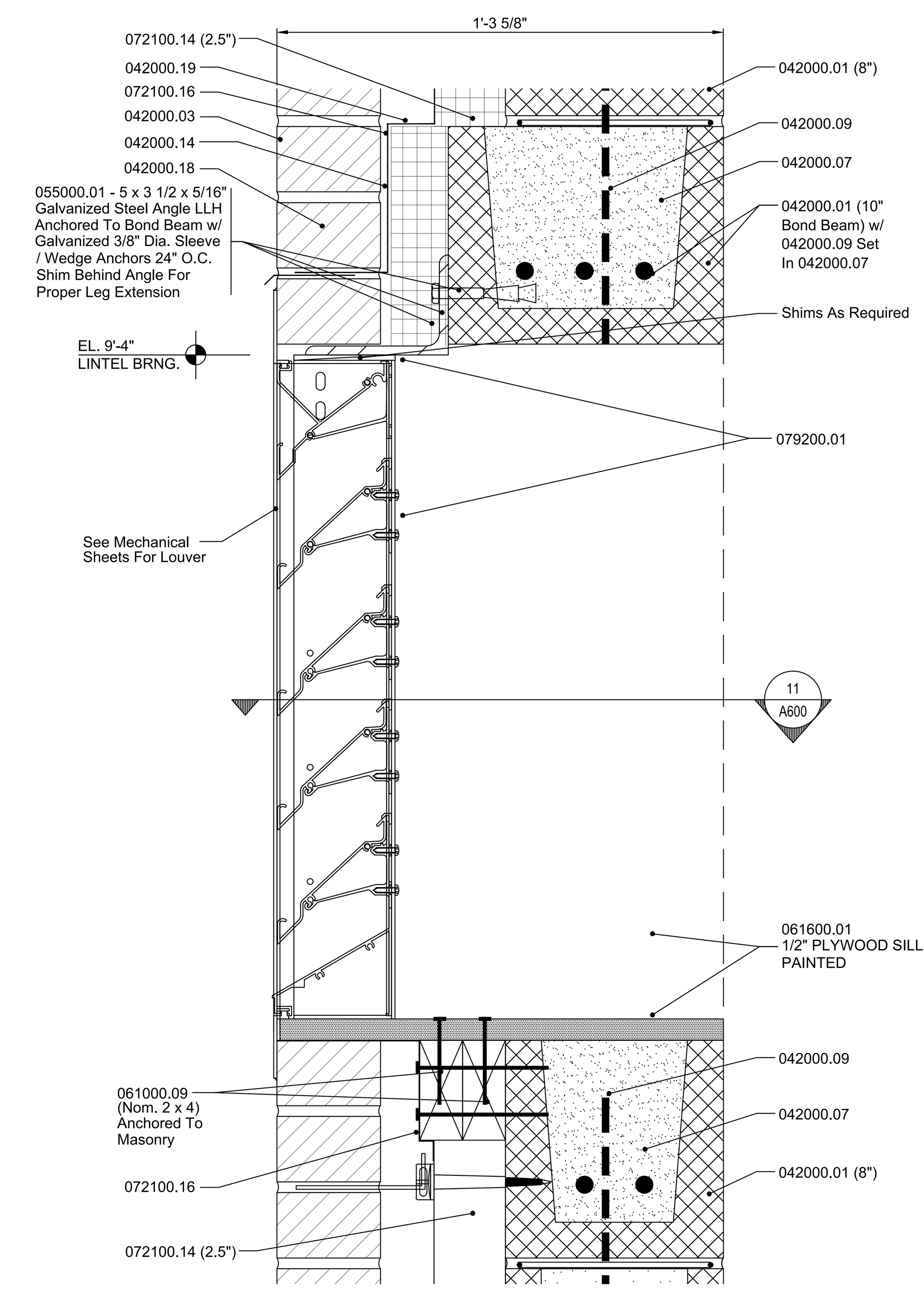
2 A600 DOOR JAMB DETAIL 3"=1'-0"



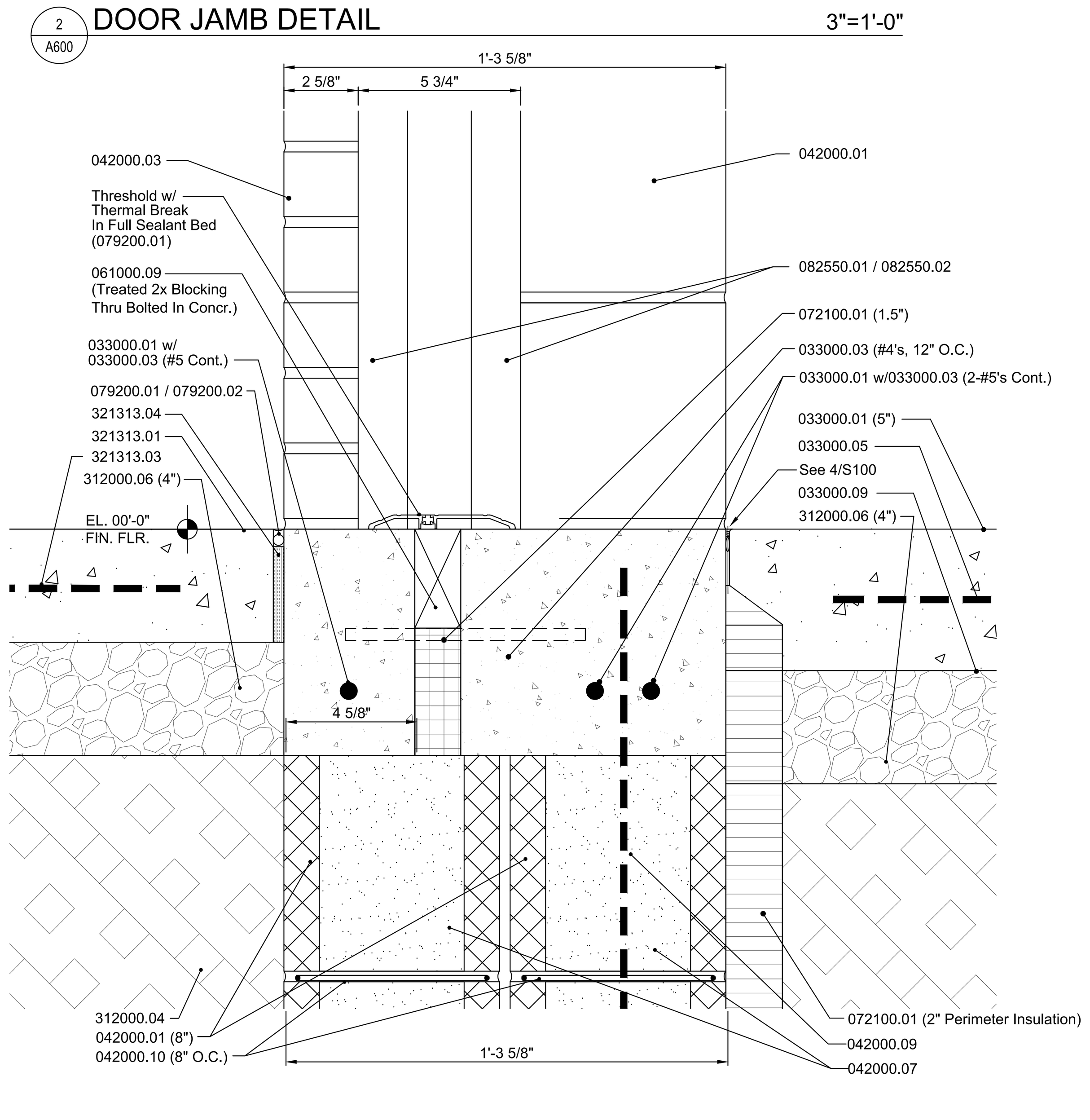
5 A600 DOOR JAMB DETAIL 3"=1'-0"



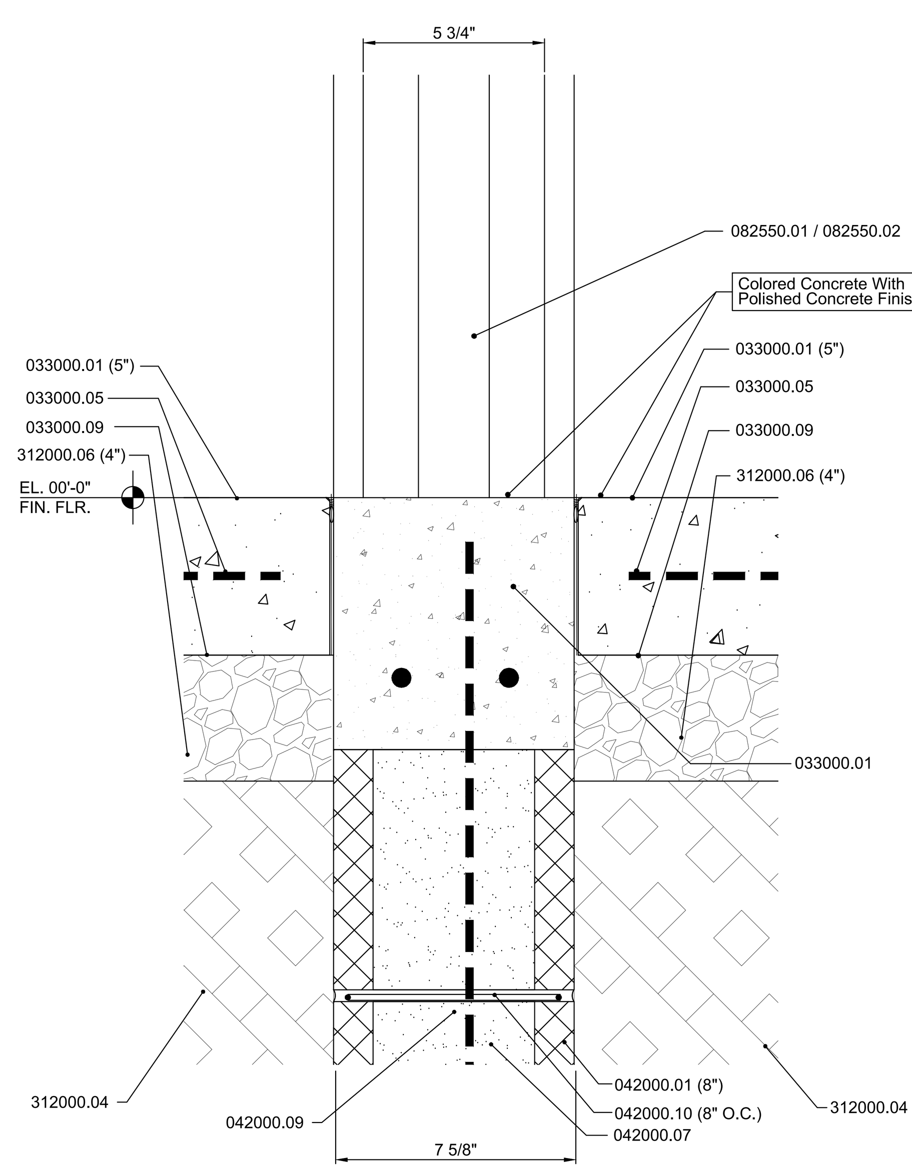
8 A600 DOOR JAMB DETAIL 3"=1'-0"



10 A600 LOUVER HEAD/SILL DETAIL 3"=1'-0"



3 A600 DOOR THRESHOLD DETAIL 3"=1'-0"



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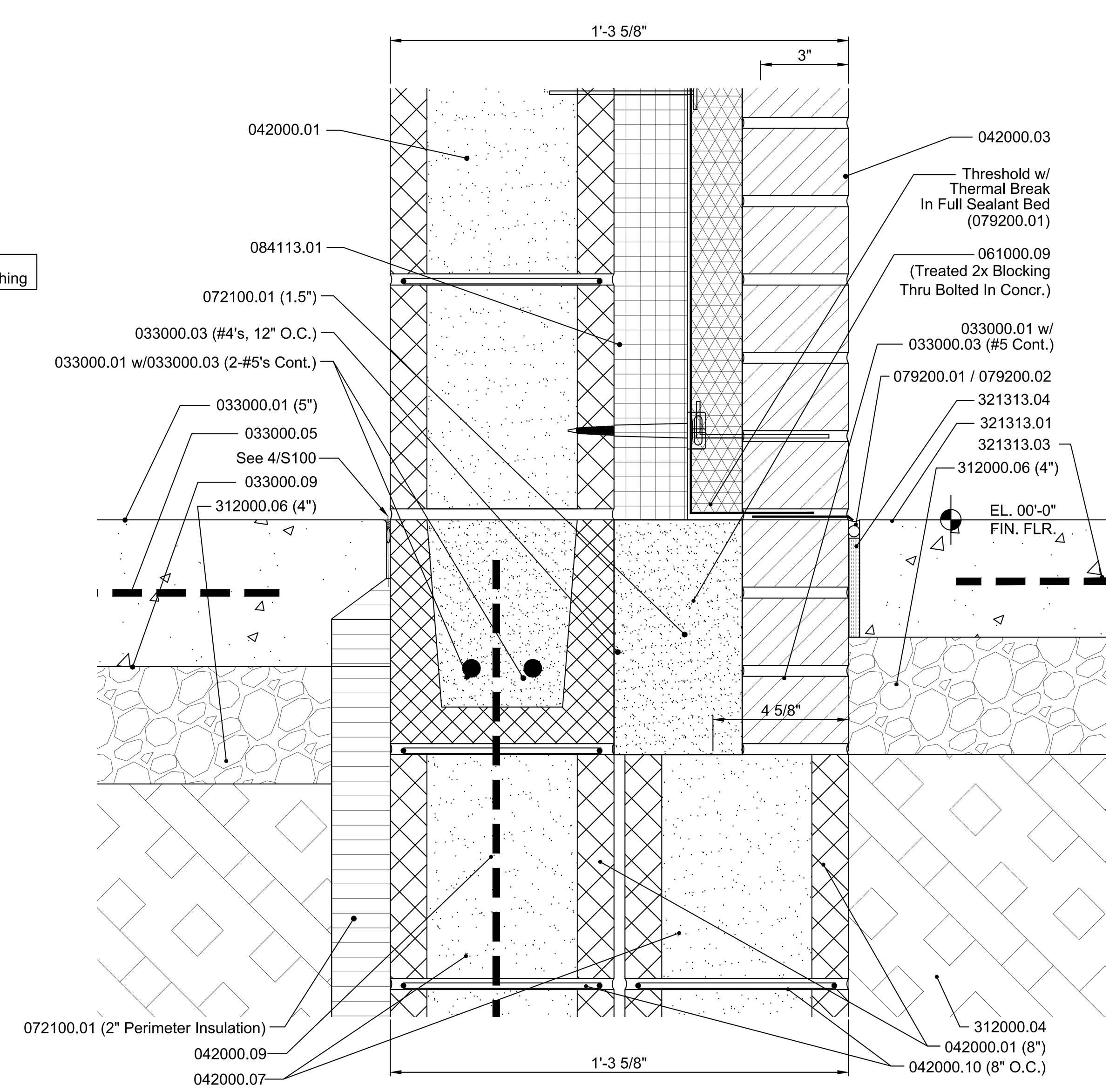
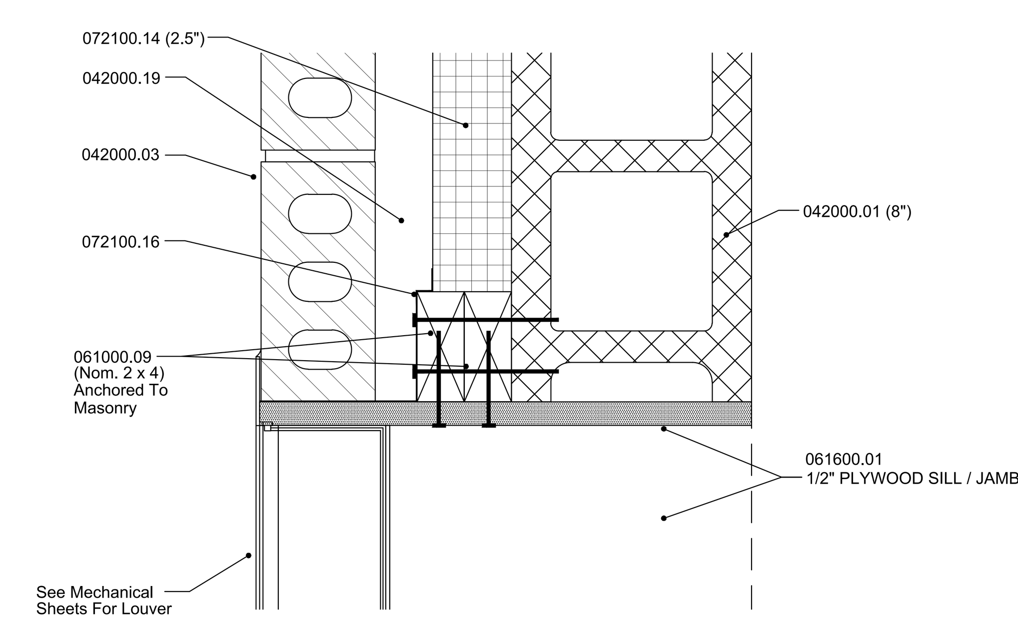


9 A600 DOOR THRESHOLD DETAIL 3"=1'-0"



11 A600 LOUVER JAMB DETAIL 3"=1'-0"

PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE NB TRUCK PARKING
TAYLORSVILLE, INDIANA

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INDIANA DEPARTMENT OF TRANSPORTATION INDOT

Revisions:

Project Number: 03003001-24-025-D1
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Drawing Date: SEP 2024
Drafter:
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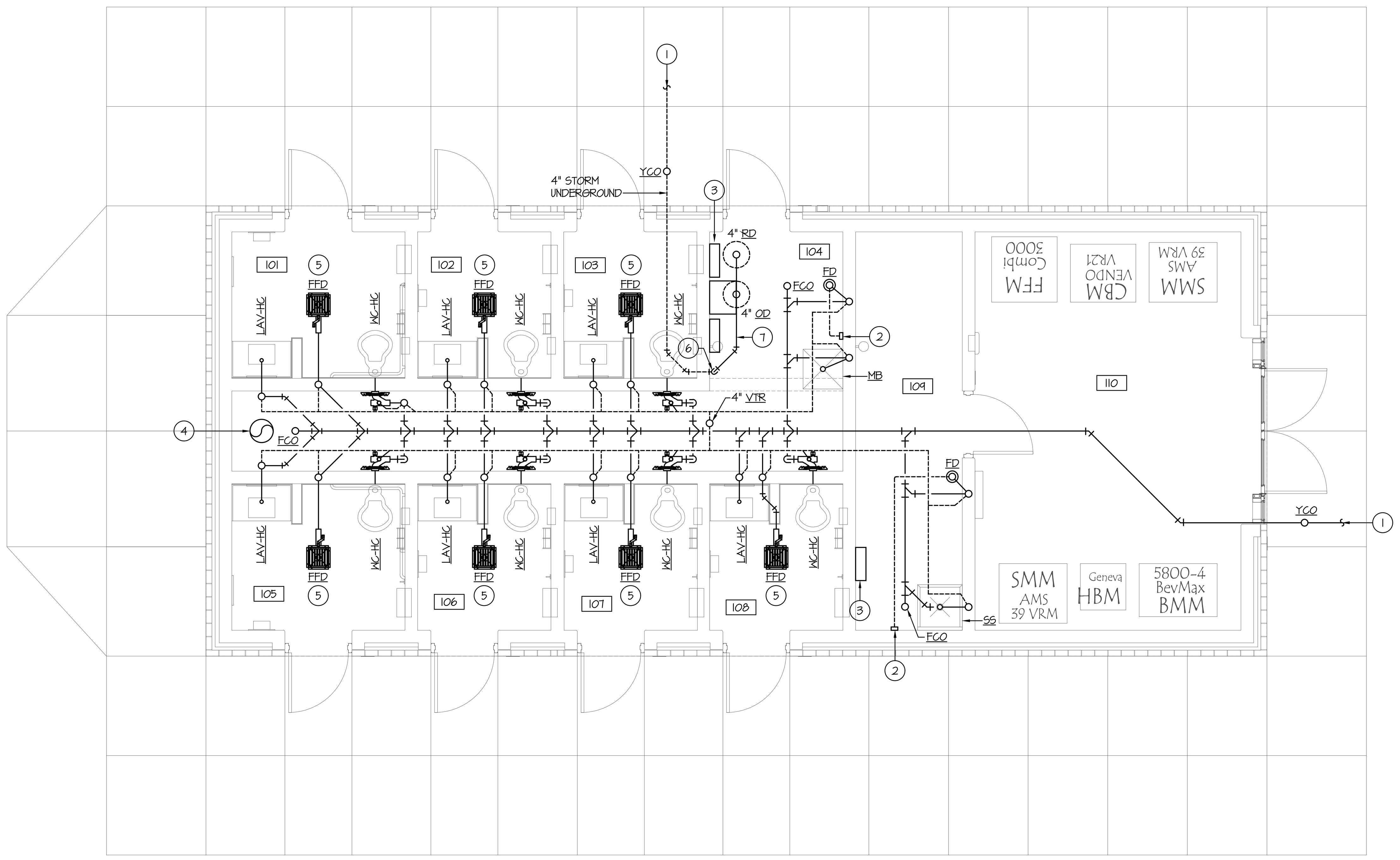
DAPW Approval:
Client Approval:
Reference Number: 1385N
Building Reference: TR
Drawing Number: A600
Sheet: 12 of 22

ROOM NO.	ROOM NAME
101	HC / UNISEX TOILET
102	UNISEX TOILET
103	UNISEX TOILET
104	MECHANICAL
105	HC / UNISEX TOILET
106	UNISEX TOILET
107	UNISEX TOILET
108	UNISEX TOILET
109	STORAGE
110	VENDING



SANITARY & STORM PIPING PLAN

SCALE: 1/4" = 1'-0"

PLUMBING PLAN NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. FLOOR DRAIN TRAP PRIMER. MOUNT NEAR FLOOR. COORDINATE EXACT LOCATION WITH OTHER PIPING AND EQUIPMENT.

   CONNECT 1/2" CW INLET TO CW MAIN. PROVIDE BALL VALVE AT CONNECTION TO CW PIPING.

   ROUTE 1/2" TYPE K COPPER FROM TRAP PRIMER UNDERSLAB TO TRAP PRIMER CONNECTION ON FLOOR DRAIN.

   TRAP PRIMER SHALL BE:
   PRECISION PLUMBING PRODUCTS
   MODEL SMP-500-115V

   INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. ELECTRICAL EQUIPMENT. COORDINATE WITH DIVISION 26 CONTRACTOR
4. SUPPLY AIR DUCT UP THROUGH FLOOR. COORDINATE SANITARY PIPING IN THIS LOCATION WITH DIVISION 23 CONTRACTOR.
5. SEE "FLUSHING FLOOR DRAIN DETAIL" SHEET P602 FOR FIELD MODIFICATIONS TO FLUSHING FLOOR DRAIN.
6. 4" STORM DOWN THROUGH FLOOR. PROVIDE CLEANOUT AT 36" ABOVE FINISHED FLOOR. PROVIDE PIPE SLEEVE AND SLEEVE SEAL SYSTEM AT FLOOR PENETRATION.
7. 4" STORM

GENERAL PLUMBING NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC. DO NOT SCALE THE DRAWINGS. THE EXACT LOCATION AND / OR ROUTING OF PIPING, EQUIPMENT, ETC., UNLESS SPECIFICALLY DIMENSIONED ON THE DRAWINGS, SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION SO ALL PIPING, EQUIPMENT, ETC. FIT PROPERLY AND CAN BE SERVICED. COORDINATE ALL INSTALLATIONS AND ROUTINGS WITH OTHER TRADES.
2. PLUMBING EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE:
   - STATE BUILDING CODE
   - STATE PLUMBING CODE
   - STATE MECHANICAL CODE
   - STATE FIRE CODE
   - STATE ENERGY CODE
   - NATIONAL ELECTRIC CODE
   - APPLICABLE OSHA AND NFPA STANDARDS
   - COUNTY AND CITY BUILDING REGULATIONS AND CODES
3. PROVIDE ADDITIONAL OFFSETS IN PIPING AS REQUIRED TO AVOID INTERFERENCE WITH STRUCTURE, DUCTWORK, ELECTRICAL, ETC.
4. ALL EQUIPMENT SHALL BE INSTALLED PER NEC REQUIREMENTS AND TO ALLOW FOR CODE REQUIRED CLEARANCES AND MANUFACTURER'S RECOMMENDED CLEARANCES.
5. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, DISCONNECTS, ETC. COORDINATE WITH DIVISION 26 CONTRACTOR. ANY PIPING ROUTED OVER ELECTRICAL PANELS, DISCONNECTS, ETC. SHALL BE RELOCATED AT NO ADDITIONAL COST.
6. SEE "SANITARY PIPING DIAGRAM" SHEET P901 FOR ALL SANITARY PIPE AND VENT SIZES AND CLEANOUTS NOT SHOWN ON THIS SHEET.
7. SEE ARCHITECTURAL DRAWINGS FOR VENT PIPE ROOF PENETRATION DETAIL.
8. PROVIDE PIPE SLEEVES AT ALL PIPING PENETRATIONS OF WALLS.
9. PROVIDE ESCUTCHEONS AT ALL EXPOSED PIPING PENETRATIONS OF WALLS.
10. DIG, BACKFILL AND COMPACT UTILITY TRENCHES PER SPECIFICATION SECTION 312000.
11. FOR YARD CLEANOUTS LOCATED IN EARTH, SET CLEANOUT IN CAST-IN PLACE CONCRETE, 18"x18"x12" DEEP WITH TOP OF CONCRETE 1" ABOVE SURROUNDING GRADE.
12. SEE "SEISMIC RESTRAINTS AND VIBRATION ISOLATION" SHEET P602 FOR SEISMIC RESTRAINT REQUIREMENTS.
13. ALL PVC AND COPPER PIPING PENETRATING FLOOR SLAB SHALL BE WRAPPED WITH 1/2" THICK FLEXIBLE ELASTOMERIC INSULATION WHERE IN CONTACT WITH CONCRETE.
14. ALL HORIZONTAL STORM WATER PIPING SHALL BE RAN AT 1% SLOPE.

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TAYLORSVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION

INDOT

Revisions:

Project Number: 03003001-24-025-C1

Requisition Number: .

Account Number: .

Designer:

Drawing Date: SEP 2024

Drafter:

Drawing Scale:

DAPW Approval:

Client Approval:

Reference Number: 1385N

Building Reference: TR

Drawing Number: P101

ROOM NO.	ROOM NAME
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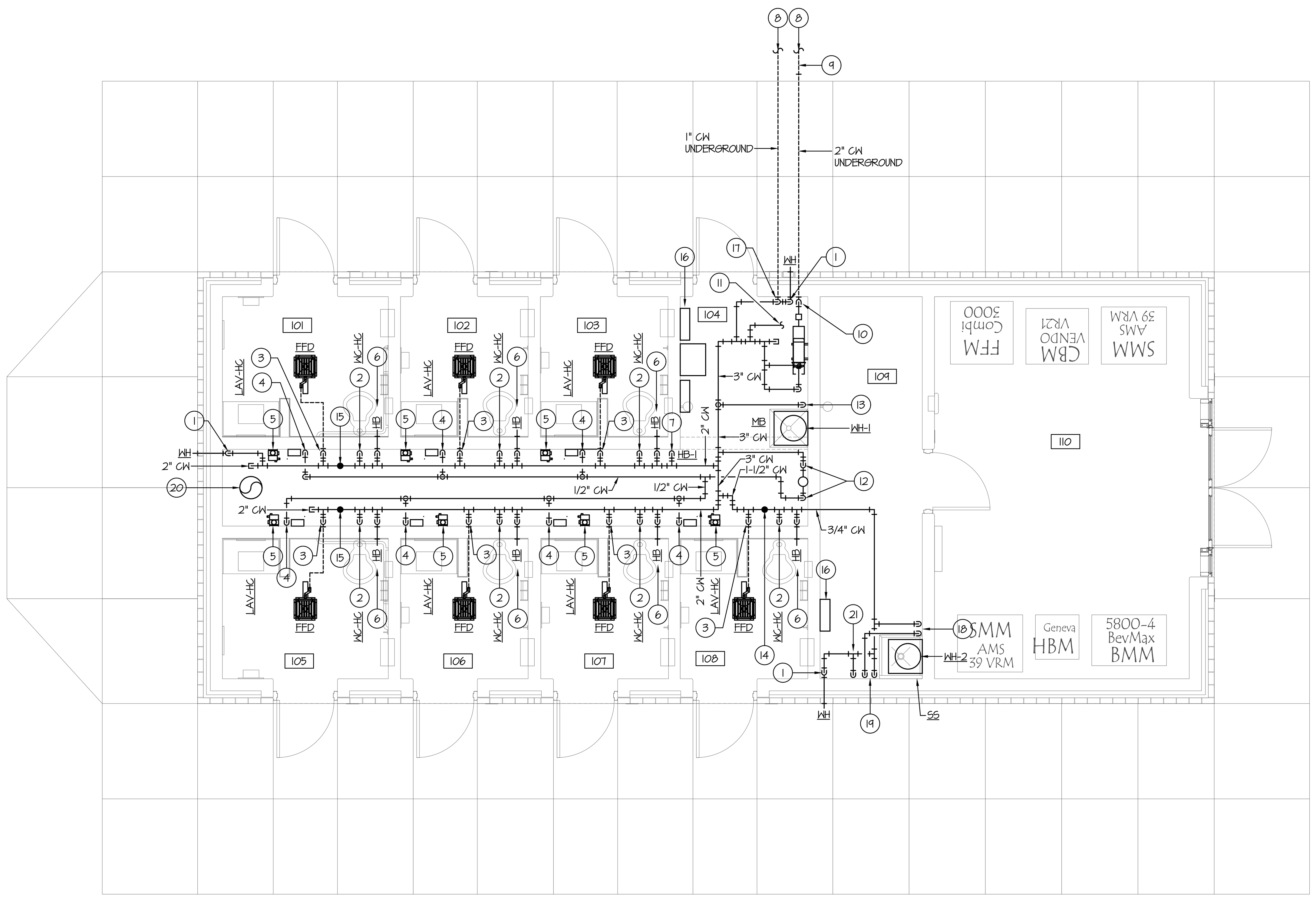
106	UNISEX TOILET
107	UNISEX TOILET
108	UNISEX TOILET
109	STORAGE
110	VENDING



WATER PIPING PLAN
SCALE: 1/4" = 1'-0"

PLUMBING PLAN NOTES:

(1) 3/4" CW SHALL DROP AND CONNECT TO:
- WH - MOUNT CENTER 20" ABOVE GRADE

PROVIDE BALL VALVE IN VERTICAL.

(2) 1-1/4" CW SHALL DROP AND CONNECT TO:
- WC-HC

(3) 1-1/4" CW SHALL DROP AND CONNECT TO:
- FFD FLUSH VALVE

ROUTE 1-1/4" CW FROM FLUSH VALVE, DOWN TO BELOW FLOOR AND UNDER SLAB TO FLUSHING FLOOR DRAIN FFD.

PROVIDE A 3" DIAMETER STAINLESS STEEL WALL CLEANOUT COVER. DRILL HOLE IN CENTER OF CLEANOUT COVER FOR MOUNTING FLUSH VALVE PUSHBUTTON. MOUNT PUSHBUTTON IN RESTROOM AT SAME HEIGHT AS LIGHT SWITCH BETWEEN WING WALL AND WC-HC.

(4) 1/2" CW SHALL DROP AND CONNECT TO INSTANTANEOUS WATER HEATER AND LAV-HC. ROUTE 1/2" HW FROM INSTANTANEOUS WATER HEATER TO LAV-HC. SEE "INSTANTANEOUS WATER HEATER PIPING DIAGRAM" SHEET P602.

SET LAV-HC THERMOSTATIC MIXING VALVE TO 105° F.

ELECTRIC INSTANTANEOUS WATER HEATER
EEMAX
MODEL SPEX60T
277V, 60HZ, 1Φ
6.0 KW
22.0 AMPS
0.2 GPM MINIMUM FLOW TO ACTIVATE
ADJUSTABLE TEMPERATURE RANGE: 70° F - 140° F
SET @ 120° F

(5) MOUNT MULTI-FEED SOAP TANK ON WALL IN CHASE. PIPE TO SOAP DISPENSER PER MANUFACTURER'S INSTRUCTIONS.

(6) 3/4" CW SHALL DROP AND CONNECT TO:
- HB - MOUNT TOP 24" ABOVE FINISHED FLOOR

PROVIDE BALL VALVE IN VERTICAL.

(7) 3/4" CW SHALL DROP AND CONNECT TO:
- HB-1 - MOUNT CENTER 36" ABOVE FINISHED FLOOR

PROVIDE BALL VALVE IN VERTICAL.

(8) SEE CIVIL DRAWINGS FOR CONTINUATION.

(9) SEE CIVIL DRAWINGS FOR PIPE SIZE.

(10) 2" CW SHALL RISE UP THROUGH FLOOR AND CONNECT TO BACKFLOW PREVENTER AND BOOSTER PUMP.

MOUNT BOOSTER PUMP ABOVE BACKFLOW PREVENTER ON FIELD FABRICATED BRACKET.

SEE "DOMESTIC WATER PIPING DIAGRAM" SHEET P601.

(11) 3" CW SHALL CONNECT TO HYDRO-PNEUMATIC TANK.

MOUNT HYDRO-PNEUMATIC TANK ABOVE PUMP AS HIGH AS POSSIBLE.

SEE "DOMESTIC WATER PIPING DIAGRAM" SHEET P601.

(12) 3/4" CW SHALL DROP AND CONNECT TO ANTI-SCALE HARD WATER CONDITIONER.

SEE "ANTI-SCALE HARD WATER CONDITIONER PIPING DIAGRAM" SHEET P602.

MOUNT ANTI-SCALE HARD WATER CONDITIONER LOW ON WALL TO ALLOW AIR CONDITIONING UNIT SYSTEM MANAGER PANEL TO BE MOUNTED ABOVE. SEE "HVAC PLAN B" SHEET M101. COORDINATE WITH DIVISION 23 CONTRACTOR.

(13) 3/4" CW SHALL DROP AND CONNECT TO:
- MB
- WATER HEATER WH-1

SEE "WATER HEATER WH-1 PIPING DIAGRAM" SHEET P602.

MOUNT WATER HEATER ABOVE MOP BASIN WITH BOTTOM APPROXIMATELY 7'-0" ABOVE FINISHED FLOOR.

(14) LEAD FREE WATER HAMMER ARRESTER
ZURN MODEL 1260XL-B

(15) LEAD FREE WATER HAMMER ARRESTER
ZURN MODEL 1260XL-C

(16) ELECTRICAL EQUIPMENT. SEE ELECTRICAL DRAWINGS.

(17) 1" CW SHALL RISE UP THROUGH FLOOR. PROVIDE PIPE SLEEVE AND SLEEVE SEAL SYSTEM.

PROVIDE BALL VALVE IN VERTICAL APPROXIMATELY 24" ABOVE FINISHED FLOOR.

PROVIDE RED PHENOLIC SIGN WITH WHITE LETTERING ON VALVE. SIGN SHALL READ:
STORAGE BUILDING WATER SHUTOFF VALVE

(18) 3/4" CW AND 1/2" HW SHALL DROP AND CONNECT TO:
- WATER HEATER WH-2

SEE "WATER HEATER WH-2 PIPING DIAGRAM" SHEET P602.

MOUNT WATER HEATER ABOVE SS AS HIGH AS POSSIBLE.

(19) 1/2" CW AND 1/2" HW SHALL DROP AND CONNECT TO:
- SS

PROVIDE BALL VALVES IN HW AND CW PIPING BELOW SINK.

MOUNT THERMOSTATIC MIXING VALVE BELOW SINK. SET THERMOSTATIC MIXING VALVE TO 120° F.

(20) SUPPLY AIR DUCT UP THROUGH FLOOR. COORDINATE PIPING WITH DIVISION 23 CONTRACTOR.

(21) 1/2" CW SHALL DROP AND CONNECT TO TRAP PRIMER. PROVIDE BALL VALVE AT INLET.

GENERAL PLUMBING NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC. DO NOT SCALE THE DRAWINGS. THE EXACT LOCATION AND / OR ROUTING OF PIPING, EQUIPMENT, ETC., UNLESS SPECIFICALLY DIMENSIONED ON THE DRAWINGS, SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION SO ALL PIPING, EQUIPMENT, ETC. FIT PROPERLY AND CAN BE SERVICED. COORDINATE ALL INSTALLATIONS AND ROUTINGS WITH OTHER TRADES.
2. PLUMBING EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE:
   - STATE BUILDING CODE
   - STATE PLUMBING CODE
   - STATE MECHANICAL CODE
   - STATE FIRE CODE
   - STATE ENERGY CODE
   - NATIONAL ELECTRIC CODE
   - APPLICABLE OSHA AND NFPA STANDARDS
   - COUNTY AND CITY BUILDING REGULATIONS AND CODES
3. PROVIDE ADDITIONAL OFFSETS IN PIPING AS REQUIRED TO AVOID INTERFERENCE WITH STRUCTURE, DUCTWORK, ELECTRICAL, ETC.
4. ALL EQUIPMENT SHALL BE INSTALLED PER NEC REQUIREMENTS AND TO ALLOW FOR CODE REQUIRED CLEARANCES AND MANUFACTURER'S RECOMMENDED CLEARANCES.
5. DO NOT ROUTE ANY PIPING OVER ELECTRICAL SWITCHBOARDS, PANELS OR DISCONNECT SWITCHES. COORDINATE WITH DIVISION 26 CONTRACTOR. ANY PIPING ROUTED OVER ELECTRICAL SWITCHBOARDS, PANELS OR DISCONNECT SWITCHES SHALL BE RELOCATED AT NO ADDITIONAL COST.
6. PROVIDE PIPE SLEEVES AT ALL PIPING PENETRATIONS OF WALLS.
7. PROVIDE ESCUTCHEONS AT ALL EXPOSED PIPING PENETRATIONS OF WALLS.
8. ALL COPPER WATER PIPING LOCATED UNDERGROUND SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION.
9. SEE "WATER PIPING DIAGRAM" SHEET P601 FOR PIPE SIZES NOT SHOWN.
10. DIG, BACKFILL AND COMPACT UTILITY TRENCHES PER SPECIFCATION SECTION 312000.
11. SEE "SEISMIC RESTRAINTS AND VIBRATION ISOLATION" SHEET P602 FOR SEISMIC RESTRAINT REQUIREMENTS.
12. SEE "SANITARY PIPING PLAN" SHEET P101 FOR TRAP PRIMERS.
13. UNDERGROUND WATER PIPING NOT LOCATED UNDER THE BUILDING SLAB: THE MINIMUM DEPTH OF ALL WATER SUPPLY PIPING MEASURED FROM FINISHED GRADE TO THE TOP OF THE PIPE SHALL BE 48".

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PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE SB TRUCK PARKING
TAYLORSVILLE, INDIANA

Revisions:

Project Number: 03003001-24-025-C1	
Requisition Number: .	
Account Number: .	
Designer:	Drawing Date: SEP 2024
Drafter:	Drawing Scale:
DAPW Approval:	
Client Approval:	
Reference Number: 1385N	
Building Reference: TR	
Drawing Number: P201	
Sheet: 14 of 22	

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FIXTURE SCHEDULE / ROUGH-IN SCHEDULE / REMARKS

SYMBOL	MANUFACTURER & MODEL	TRIM & ACCESSORIES	HW	CW	WASTE	MOUNTING HEIGHT	REMARKS
WC-HC	SLOAN ST-2469-STG	SLOAN ROYAL 152 ESS FLUSH VALVE - 1.6 GPF	-	1"	4"	17" AFF TO TOP OF RIM	COLOR SHALL BE WHITE
		SLOAN ELF-154 HARDWIRED TRANSFORMER					SLOANTEC GLAZE
		ZURN Z1201-CL-M ADJUSTABLE HORIZONTAL CARRIER					REAR SPUD INLET
		CHURCH 9400SSCT SEAT					MaP SCORE: 1000 GRAMS OF MISO @ 1.6 GPF
							CARRIER - MINIMUM 500 POUND STATIC LOAD RATING
							PROVIDE CARRIER WITH CUSTOM LENGTH COUPLING
							PROVIDE CARRIER WITH AUXILIARY FOOT SUPPORT
							SEAT: IAPMO/ANSI Z124.5-2013 COMMERCIAL HEAVY DUTY
							HARDWIRED FLUSH VALVE WITH ELECTRICAL OVERRIDE
LAV-HC	-	BRADLEY S53-3700 FAUCET W/ 120VAC PLUGIN ADAPTER	1/2"	1/2"	1-1/4"	INTEGRAL TO COUNTER	FAUCET / SOAP / GRID STRAINER FINISH - BRUSHED BLACK STAINLESS
		WATTS LFUSG-B-M2 ASSE STANDARD 1070 MIXING VALVE					0.5 GPM
		P-TRAP					LIQUID SOAP
		GRID STRAINER					
		ADA OFFSET DRAIN					
		ANGLE STOPS					
		RISERS					
		BRADLEY 6-3700 SOAP DISPENSER W/ 120VAC PLUGIN ADAPTER					
		BRADLEY 6-SOAP-MFT MULTI-FEED SOAP TANK W/ 120VAC PLUGIN ADAPTER					
MB	FIAT MSB-2424	CHICAGO FAUCET 835-XKCRCF FAUCET	1/2"	1/2"	3"	FLOOR MOUNTED	COLOR SHALL BE WHITE
		FIAT 832-AA HOSE AND BRACKET					INTEGRAL CHECK VALVES
		FIAT 889-CC MOP HANGER					ROUGH CHROME
		FIAT E-77-AA VINYL BUMPER GUARD					
		STAINLESS STEEL WALL GUARDS					
		P-TRAP					
SS	JUST MANUFACTURING SB124-J	ZURN Z841B4-XL-23F FAUCET	1/2"	1/2"	2"	FLOOR MOUNTED	SINK SHALL BE 14 GAUGE, TYPE 304, 18-8 STAINLESS STEEL
		JUST J-35-BLA-2 DRAIN					PROVIDE WITH 1-5/8" O.D. STAINLESS STEEL TUBULAR LEGS
		P-TRAP					PROVIDE WITH 1.5 GPM AERATOR
		WATTS LFMMV ASSE STANDARD 1070 MIXING VALVE					FAUCET SHALL BE LEAD FREE
FFD	METCRAFT 4500 NO APPROVED EQUAL	SLOAN 950-1.6-YB FLUSH VALVE	-	1"	3"	RECESSED IN FLOOR	DETOX TOILET
		SLOAN HY-100-A PANEL MOUNT METAL PUSHBUTTON					REMOTE FLUSHING
		3" S/S TO 3" CAST IRON NO-HUB CONNECTOR					

SCHEDULE NOTES:

1. ALL P-TRAPS SHALL BE 17 GAGE CHROME PLATED WITH DEEP FLANGE ESCUTCHEON UNLESS INDICATED OTHERWISE.
2. RISERS SHALL BE STAINLESS STEEL BRAIDED HOSE.
3. ANGLE STOPS SHALL BE QUARTER-TURN BALL VALVES; BRASS CRAFT KT SERIES.
4. ESCUTCHEONS FOR SUPPLIES SHALL BE CHROME PLATED.
5. ALL FAUCETS SHALL BE CONSTRUCTED WITH CERAMIC DISC COMPONENTS.
6. SEAL FIXTURES AT WALL USING SILICONE SEALANT. COLOR SHALL MATCH FIXTURE.

MISCELLANEOUS SCHEDULE

SYMBOL	MANUFACTURER & MODEL	REMARKS
FCO	ZURN ZN1400-VP	ADJUSTABLE FLOOR CLEANOUT WITH:
		DURA-COATED CAST-IRON BODY
		POLISHED NICKEL BRONZE TOP
		VANDAL PROOF SCREWS
FD	ZURN ZN415N-P	4" ADJUSTABLE FLOOR DRAIN WITH:
		DURA COATED CAST-IRON BODY
		TYPE "N" 7"Φ NICKEL BRONZE STRAINER
		1/2" TRAP PRIMER CONNECTION
YCO	ZURN Z1474-N-VP	HEAVY DUTY CLEANOUT HOUSING
		DURA-COATED CAST IRON
		DOUBLE FLANGED HOUSING
		HEAVY DUTY SECURED SCORIATED CAST IRON COVER
		Z1440 INTERNAL CLEANOUT
		HOUSING FREE OF PIPING
		VANDAL PROOF SCREW
WH	ZURN Z1320XL-CL	ENCASED ECOLOTROL WALL HYDRANT
		NON-FREEZE
		ANTI-SIPHON
		AUTOMATIC DRAINING
		3/4" INLET
		LEAD FREE
		CERAMIC DISC
		STAINLESS STEEL HOUSING W/ LOCKING HINGED COVER
		CYLINDER LOCK
		OPERATING KEY
HB	ZURN Z1330XLCL	ENCASED ECOLOTROL WALL HYDRANT
		MODERATE CLIMATE
		ANTI-SIPHON
		AUTOMATIC DRAINING
		3/4" INLET
		3/4" MALE HOSE THREADED OUTLET
		CERAMIC 1/4 TURN OPERATING CARTRIDGE
		LEAD FREE
		OPERATING KEY
		STAINLESS STEEL HOUSING W/ LOCKING HINGED COVER
		CYLINDER LOCK
HB-1	CHICAGO FAUCET 998-XKRCF	INSIDE SILL FITTING WITH:
		VACUUM BREAKER SPOUT
		3/4" NPT FEMALE THREADED INLET
		3/4" MALE HOSE THREADED OUTLET
		CERAMIC 1/4 TURN OPERATING CARTRIDGE
RD	ZURN ZC100-R-C-EA	ROOF DRAIN WITH:
		CAST IRON DOME
		SUMP RECEIVER
		UNDERDECK CLAMP
		ADJUSTABLE EXTENSION ASSEMBLY (2-1/8" THRU 3-1/2")
OD	ZURN ZC100-R-C-EA-89	ROOF DRAIN WITH:
		CAST IRON DOME
		SUMP RECEIVER
		UNDERDECK CLAMP
		ADJUSTABLE EXTENSION ASSEMBLY (2-1/8" THRU 3-1/2")
		2" HIGH EXTERNAL WATER DAM

BUILDING COMMISSIONING

1. THE COMMISSIONING AUTHORITY SHALL BE SELECTED BY THE OWNER. THE COMMISSIONING AUTHORITY SHALL BE PAID BY THE CONTRACTOR FROM THE SPECIFIED ALLOWANCE. SEE SPECIFICATIONS.

2. THE OPERATION OF THE FOLLOWING EQUIPMENT / CONTROLS SHALL BE VERIFIED USING THE COMMISSIONING PROCESS (CxP). THE CxP SHALL BE LEAD BY THE COMMISSIONING AUTHORITY (CxA).

   - WATER HEATERS
   - BOOSTER PUMP
   - AUTOMATIC FLUSH VALVES
   - AUTOMATIC FAUCETS
   - AUTOMATIC SOAP DISPENERS
   - TRAP PRIMERS
   - THERMOSTATIC MIXING VALVES

3. THE OPERATION OF THE EQUIPMENT / CONTROLS SHALL BE DEMONSTRATED BY THE CONTRACTOR AND / OR EQUIPMENT REPRESENTATIVE. UNLESS THE CONTRACT DOCUMENTS SPECIFICALLY REQUIRE DEMONSTRATION BY AN EQUIPMENT REPRESENTATIVE, THE CONTRACTOR MAY DEMONSTRATE OPERATION. THE PERSON DEMONSTRATING OPERATION OF THE EQUIPMENT / CONTROLS SHALL HAVE FULL WORKING KNOWLEDGE OF THE EQUIPMENT / CONTROLS THAT HE / SHE IS DEMONSTRATING.

4. PRIOR TO COMMISSIONING, THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL VERIFY OPERATION OF ALL EQUIPMENT / CONTROLS. WHEN ALL EQUIPMENT / CONTROLS ARE OPERATING PER THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CxA THAT COMMISSIONING MAY BEGIN.

5. THE CxA RESPONSIBILITIES SHALL BE AS FOLLOWS:

   - CREATE FUNCTIONAL PERFORMANCE TEST (FPT) PROTOCOLS TO VERIFY OPERATION OF ALL EQUIPMENT / CONTROLS. THESE PROCEDURES SHALL BE DEVELOPED BASED UPON ALL CONTRACT DOCUMENTATION, INCLUDING DRAWINGS, SPECIFICATIONS, REQUEST FOR INFORMATION (RFI) AND ARCHITECT'S SUPPLEMENTAL INFORMATION (ASI).
   - REVIEW FPT WITH THE ENGINEER AND THE PERSON RESPONSIBLE FOR DEMONSTRATING OPERATION OF THE EQUIPMENT / CONTROLS FOR COMPLETENESS AND OPERABILITY. UPON ACCEPTANCE BY ALL PARTIES, THE FINAL FPT DOCUMENTATION SHALL BE DISTRIBUTED TO THE CONTRACTOR / EQUIPMENT REPRESENTATIVE FOR SUPPORT OF THEIR INSTALLATION AND CHECKOUT ACTIVITIES.
   - DIRECT THE EXECUTION OF FTP TESTING BY THE CONTRACTOR / EQUIPMENT REPRESENTATIVE.
   - GENERATE AND MAINTAIN AN ISSUES AND BENEFITS LOG TO IDENTIFY ALL DEFICIENCIES AND TRACK THEIR REMEDIATION.

6. THE CONTRACTOR / EQUIPMENT REPRESENTATIVE RESPONSIBILITIES SHALL BE AS FOLLOWS:

   - PARTICIPATE IN ENGINEERING REVIEW OF FPT WITH CxA AND ENGINEER.
   - EXECUTE IN THE PRESENCE OF THE CxA THE FUNCTIONAL PERFORMANCE TESTING OF THE EQUIPMENT / CONTROLS. ALL SEQUENCES OF OPERATION SHALL BE DEMONSTRATED TO THE CxA.

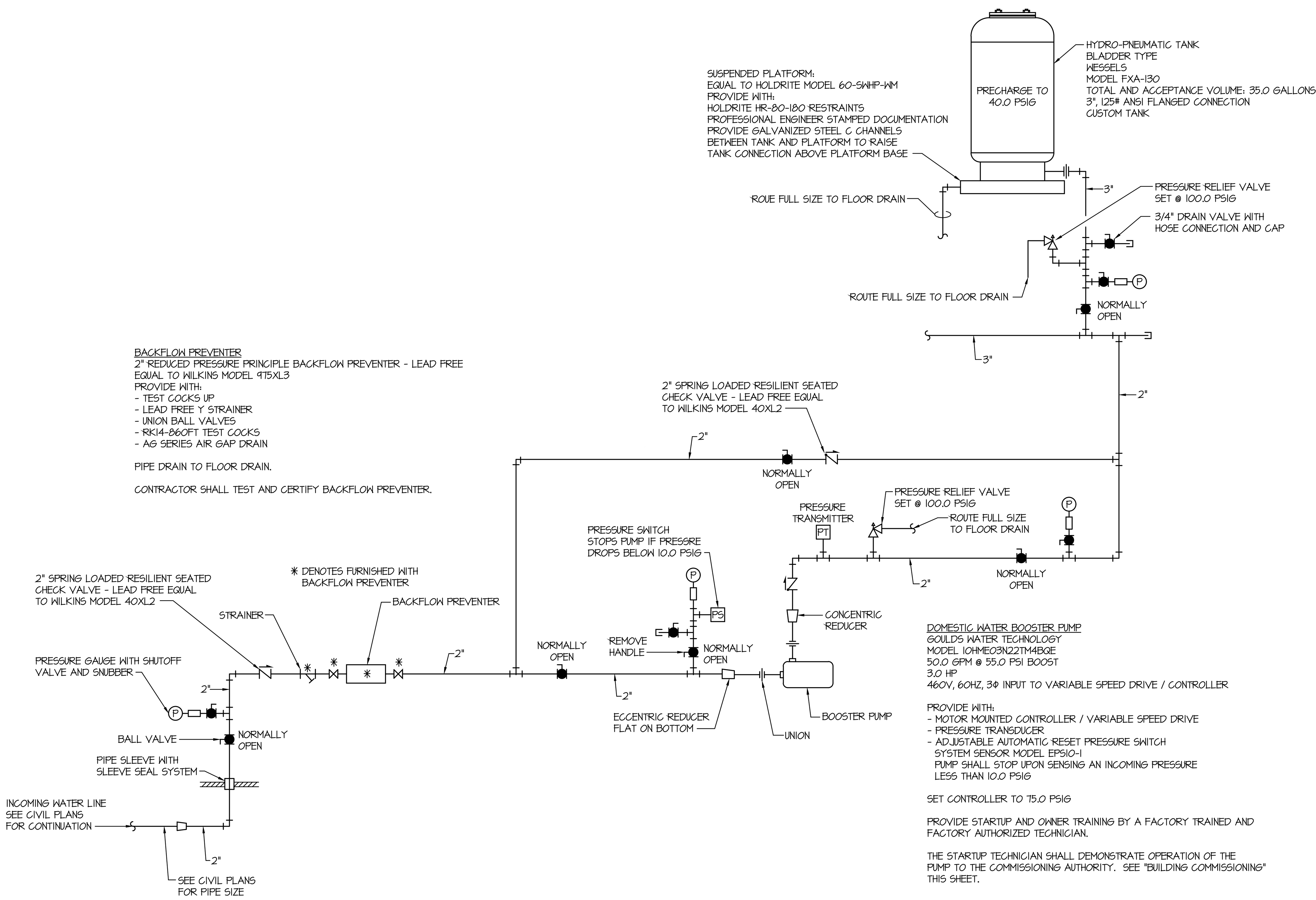
7. IF ANY EQUIPMENT / CONTROLS FAIL TO PERFORM PER THE CONTRACT DOCUMENTS, THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL MAKE CORRECTIONS AS REQUIRED. THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL AGAIN DEMONSTRATE THE PREVIOUSLY "FAILED" EQUIPMENT / CONTROLS TO THE CxA. THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL CONTINUE TO MAKE CORRECTIONS AND DEMONSTRATE OPERATION TO THE CxA UNTIL THE EQUIPMENT / CONTROLS OPERATE PER THE CONTRACT DOCUMENTS.

8. PRIOR TO THE START OF ANY COMMISSIONING, ALL CONTRACTORS AND EQUIPMENT REPRESENTATIVES DEMONSTRATING OPERATION OF THE EQUIPMENT / CONTROLS SHALL MEET TOGETHER WITH THE CxA TO ESTABLISH A SCHEDULE FOR PERFORMING ALL COMMISSIONING. THE SCHEDULE SHALL INCLUDE THE TOTAL NUMBER OF DAYS REQUIRED TO COMPLETE THE COMMISSIONING, THE NUMBER OF CONSECUTIVE DAYS REQUIRED AND THE NUMBER OF NON-CONSECUTIVE DAYS REQUIRED. ALL PARTIES INVOLVED SHALL AGREE TO THE SCHEDULE.

9. IF THE CONTRACTOR / EQUIPMENT REPRESENTATIVE CAN NOT DEMONSTRATE COMPLIANCE WITH THE CONTRACT DOCUMENTS IN THE TIME AGREED TO IN THE SCHEDULE, THROUGH NO FAULT OF THE CxA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REIMBURSING THE CxA FOR ALL ADDITIONAL EXPENSES INCURRED INCLUDING TIME, TRAVEL, LODGING, ETC.

10. ALL COMMISSIONING SHALL BE COMPLETE PRIOR TO THE CONTRACTOR REQUESTING A PUNCH LIST BY THE ENGINEER.

11. THE CONTRACTOR SHALL PROVIDE A LIFT AND LADDER FOR USE BY THE CxA DURING THE FUNCTIONAL PERFORMANCE TESTING. COORDINATE REQUIREMENTS WITH THE COMMISSIONING AUTHORITY.



WATER PIPING DIAGRAM

SCALE: NONE

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Certified by:

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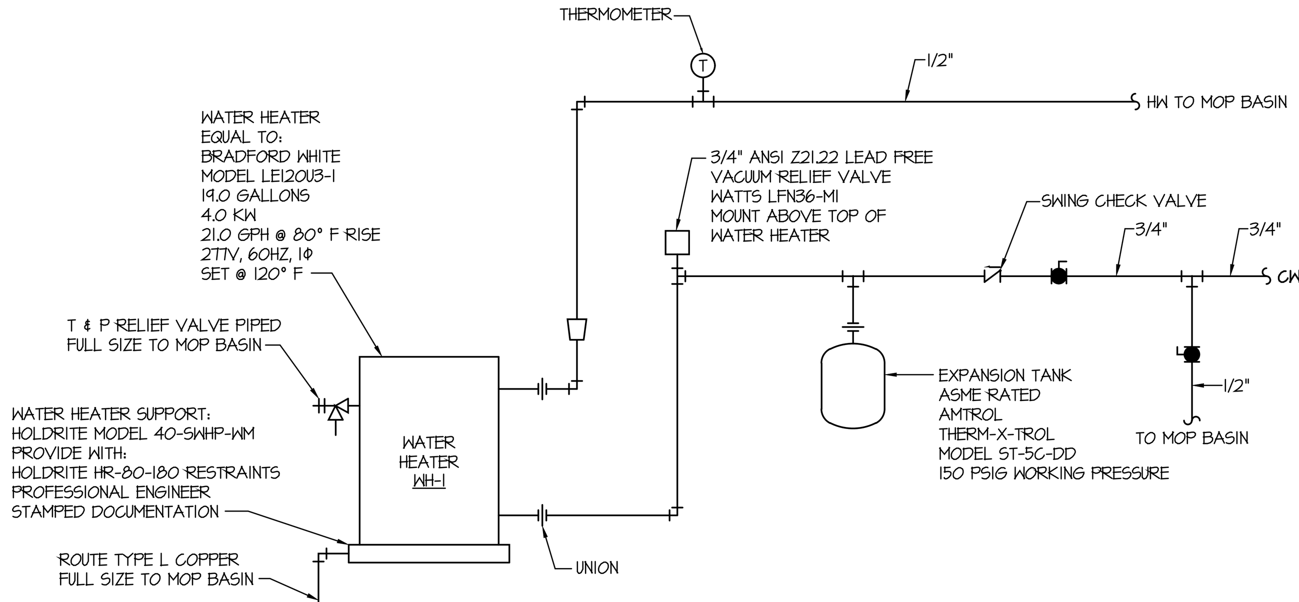
PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE SB TRUCK PARKING
TAYLORSVILLE, INDIANA

IDOA

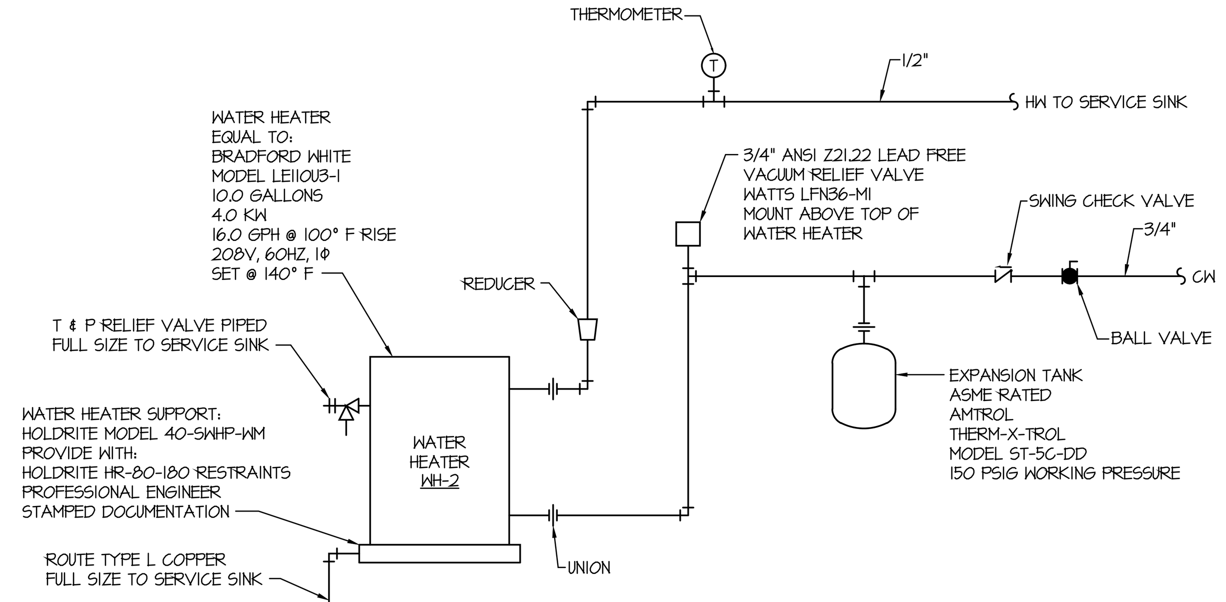
INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number: 03003001-24-025-C1	
Requisition Number:	
Account Number:	
Designer:	Drawing Date: SEP 2024
Drafter:	Drawing Scale:
DAPW Approval:	
Client Approval:	
Reference Number: 1385N	
Building Reference: TR	
Drawing Number: P601	
Sheet: 15 of 22	



WATER HEATER WH-1 PIPING DIAGRAM
SCALE: NONE



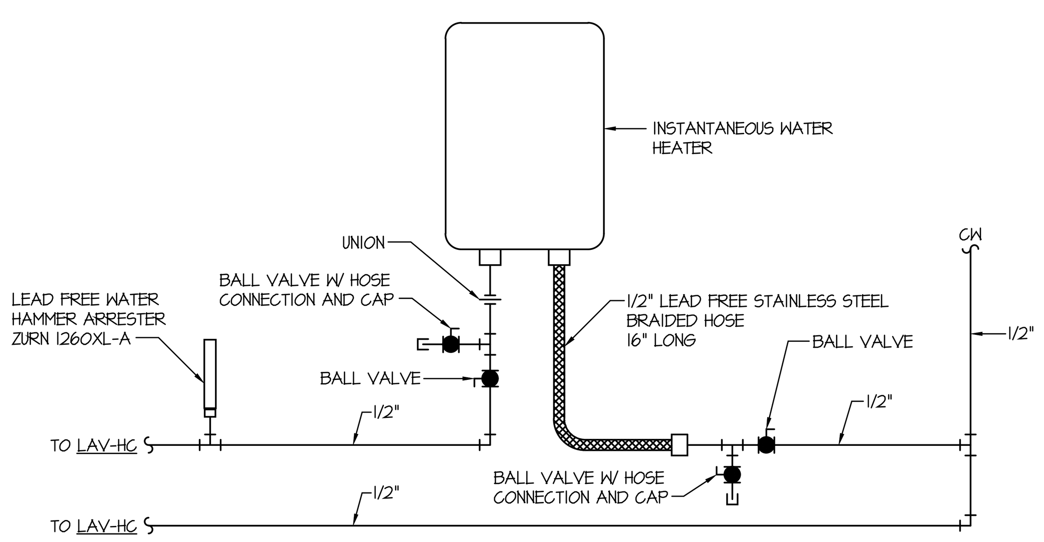
WATER HEATER WH-2 PIPING DIAGRAM
SCALE: NONE

SEISMIC RESTRAINTS AND VIBRATION ISOLATION

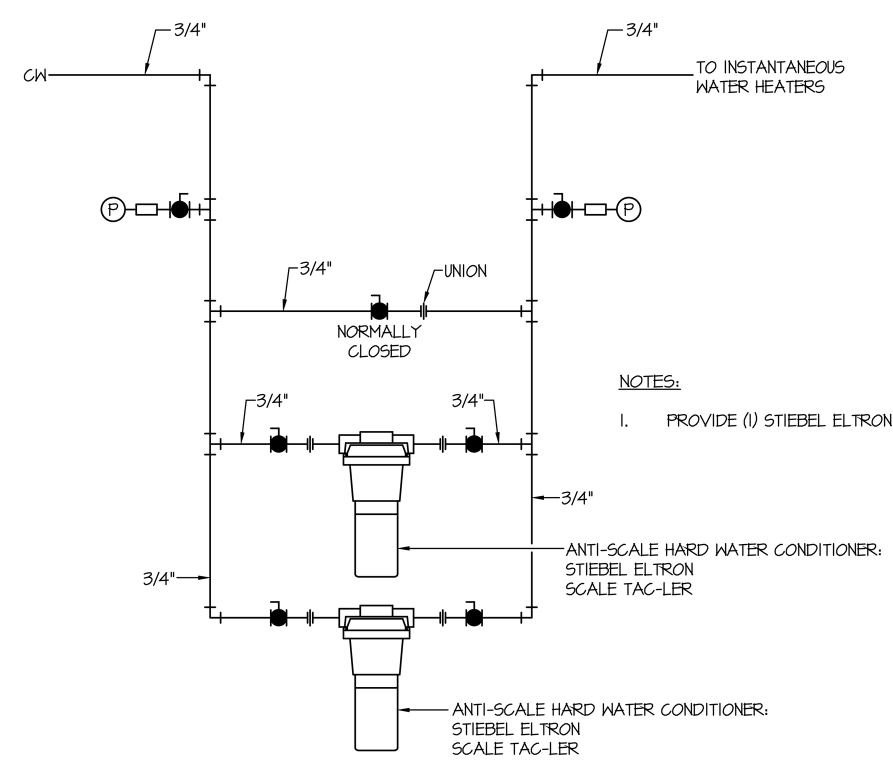
1. ALL PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN EQUIPMENT, PIPING, ETC. IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE INDIANA BUILDING CODE AND / OR LOCAL JURISDICTION BUILDING CODE.
2. PROVIDE CALCULATIONS TO DETERMINE RESTRAINT LOADS RESULTING FROM SEISMIC FORCES PRESENTED IN THE LATEST EDITION OF THE LOCAL BUILDING CODE AND / OR INDIANA BUILDING CODE. SEISMIC CALCULATIONS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF INDIANA AND IN THE DIRECT EMPLOY OF THE SEISMIC EQUIPMENT MANUFACTURER.
3. CALCULATIONS MUST SHOW THE ENTIRE LOAD PATH FROM THE EQUIPMENT TO THE BUILDING STRUCTURE AND INDICATE THE METHOD OF ATTACHMENT OF THE EQUIPMENT TO THE SEISMIC RESTRAINT AND THE SEISMIC RESTRAINT TO THE BUILDING STRUCTURE.
4. ALL PIPING, EQUIPMENT, ETC. REQUIRING SEISMIC RESTRAINTS SHALL BE INSTALLED, SUPPORTED, BRACED, ETC. PER THE SEISMIC SUPPLIER'S INSTRUCTIONS.
5. INSTALLATION INSTRUCTIONS MUST BE SUBMITTED TO THE ENGINEER PRIOR TO THE INSTALLATION OF THE EQUIPMENT, PIPING, ETC.
6. SEISMIC DESIGN CATEGORY = D
7. THE IMPORTANCE FACTOR I_p = 1.0.
8. THE SEISMIC SUPPLIER SHALL BE ONE OF THE FOLLOWING:

   - KINETICS
   - MASON INDUSTRIES
9. THE CONTRACTOR SHALL PROVIDE ANY MISCELLANEOUS STEEL OR WOOD REQUIRED FOR MOUNTING THE EQUIPMENT AND SEISMIC RESTRAINTS TO THE STRUCTURE.
10. A REPRESENTATIVE OF THE SEISMIC SUPPLIER SHALL VISIT THE JOB SITE AS WORK PROGRESSES TO VERIFY THAT ALL SEISMIC RESTRAINTS ARE INSTALLED PER CODE REQUIREMENTS AND SEISMIC SUPPLIER INSTALLATION INSTRUCTIONS. THE REPRESENTATIVE SHALL PROVIDE A WRITTEN REPORT TO THE ENGINEER AND CONTRACTOR OF ANY DEFICIENCIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REPRESENTATIVE WHEN ALL DEFICIENCIES HAVE BEEN CORRECTED. THE REPRESENTATIVE SHALL VERIFY THAT ALL DEFICIENCIES HAVE BEEN CORRECTED. AT THE COMPLETION OF THE PROJECT, THE REPRESENTATIVE SHALL PROVIDE TO THE ENGINEER, A WRITTEN CERTIFICATION THAT ALL SEISMIC RESTRAINTS ARE INSTALLED AS REQUIRED BY CODE AND SEISMIC SUPPLIER INSTRUCTIONS.
11. THE SEISMIC SUPPLIER ASSUMES ALL RESPONSIBLITY FOR DETERMINING THE EQUIPMENT, PIPING, ETC. THAT REQUIRES CALCULATIONS AND SEISMIC RESTRAINTS.
12. UNLESS DETERMINED BY THE SEISMIC SUPPLIER THAT CALCULATIONS AND SEISMIC RESTRAINTS ARE NOT REQUIRED, PROVIDE SEISMIC RESTRAINTS AND CALCULATIONS FOR THE FOLLOWING EQUIPMENT. IF ANY OF THE FOLLOWING EQUIPMENT DOES NOT REQUIRE CALCULATIONS OR SEISMIC RESTRAINTS, THE SEISMIC SUPPLIER SHALL LIST ON THE SEISMIC SUBMITTALS WHY THE EQUIPMENT IS EXEMPT FROM CALCULATIONS AND SEISMIC RESTRAINTS. PROVIDE SEISMIC RESTRAINTS AND CALCULATIONS FOR ANY ADDITIONAL EQUIPMENT NOT LISTED THAT REQUIRES CALCULATIONS AND SEISMIC RESTRAINTS.

    - WATER HEATERS
    - HYDRO PNEUMATIC TANKS
    - DOMESTIC WATER EXPANSION TANKS
    - DOMESTIC WATER BOOSTER PUMP
13. THE SEISMIC SUPPLIER SHALL PROVIDE A COPY OF THESE REQUIREMENTS WITH THE SEISMIC SUBMITTALS. THE SEISMIC ENGINEER SHALL SIGN THE COPY INDICATING THAT HE / SHE HAS READ ALL REQUIREMENTS. SUBMITTALS WITHOUT THIS SIGNED COPY WILL BE REJECTED.



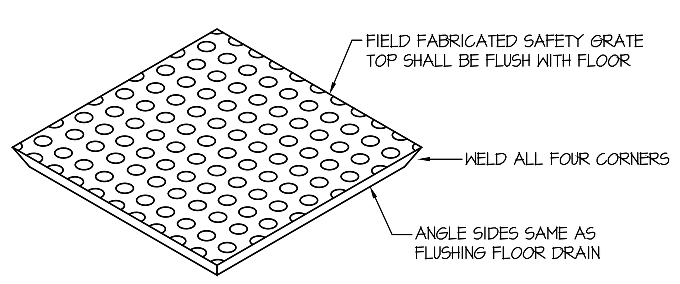
INSTANTANEOUS WATER HEATER PIPING DIAGRAM
SCALE: NONE
TYPICAL OF 7.



NOTES:

1. PROVIDE (1) STIEBEL ELTRON FLOW-AIDE DESCALING KIT.

ANTI-SCALE HARD WATER CONDITIONER PIPING DIAGRAM
SCALE: NONE



NOTES:

1. REMOVE FACTORY SAFETY GRATES FROM FLUSHING FLOOR DRAINS.
2. STORE SAFETY GRATES IN MECHANICAL 104.
3. PROVIDE PERFORATED STAINLESS STEEL METAL.
   11 GAUGE
   3/16" ROUND HOLES ON 5/16" STAGGERED CENTERS
4. BEND SIDES OF METAL TO MATCH INTERIOR SIDES OF FLUSHING FLOOR DRAIN.
5. METAL SHALL FIT INTO TOP OF FLUSHING FLOOR DRAIN WITH TOP OF METAL FLUSH WITH FLOOR
6. METAL SHALL BE REMOVEABLE.
7. PROVIDE (1) GRATE FOR APPROVAL PRIOR TO FABRICATING ALL GRATES.
8. FIELD FABRICATE (2) HEAVY DUTY WIRE "J" HOOKS WITH HANDLE THAT WILL FIT IN (2) ROUND HOLES OF GRATE AND ALLOW LIFTING OF GRATE FROM FLUSHING FLOOR DRAIN.

FLUSHING FLOOR DRAIN DETAIL
SCALE: NONE
TYPICAL OF 7.

Certified by:

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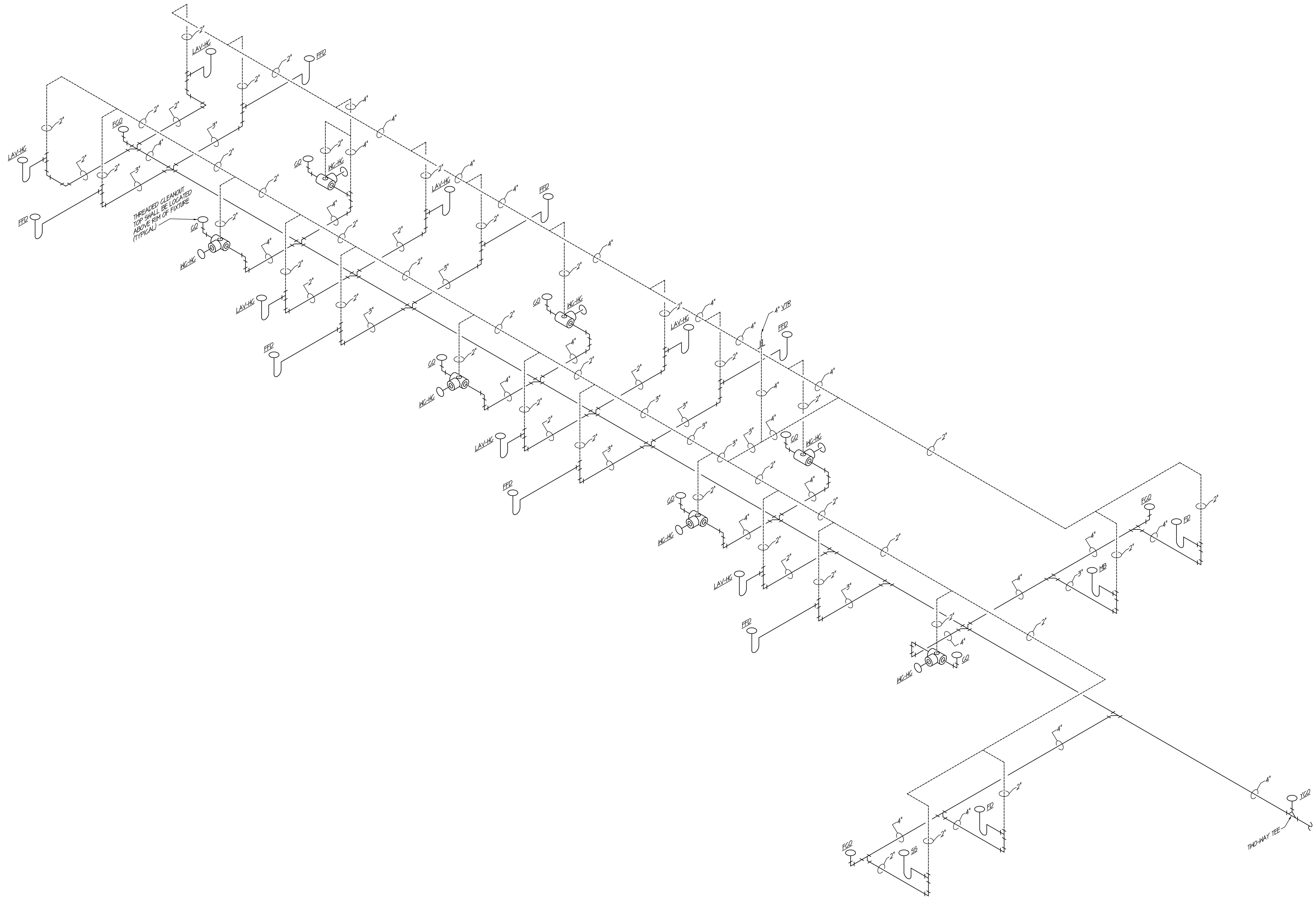
PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE SB TRUCK PARKING
TAYLORSVILLE, INDIANA

Revisions:	
Project Number: 03003001-24-025-C1	
Requisition Number:	
Account Number:	
Designer:	Drawing Date: SEP 2024
Drafter:	Drawing Scale:
DAPW Approval:	
Client Approval:	
Reference Number: 1385N	
Building Reference: TR	
Drawing Number: P602	
Sheet: 16 of 22	



SANITARY PIPING DIAGRAM

SCALE: NONE

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TAYLORSVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION
INDOT

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Building Reference: TR	
Drawing Number: P901	
Sheet: 17 of 22	

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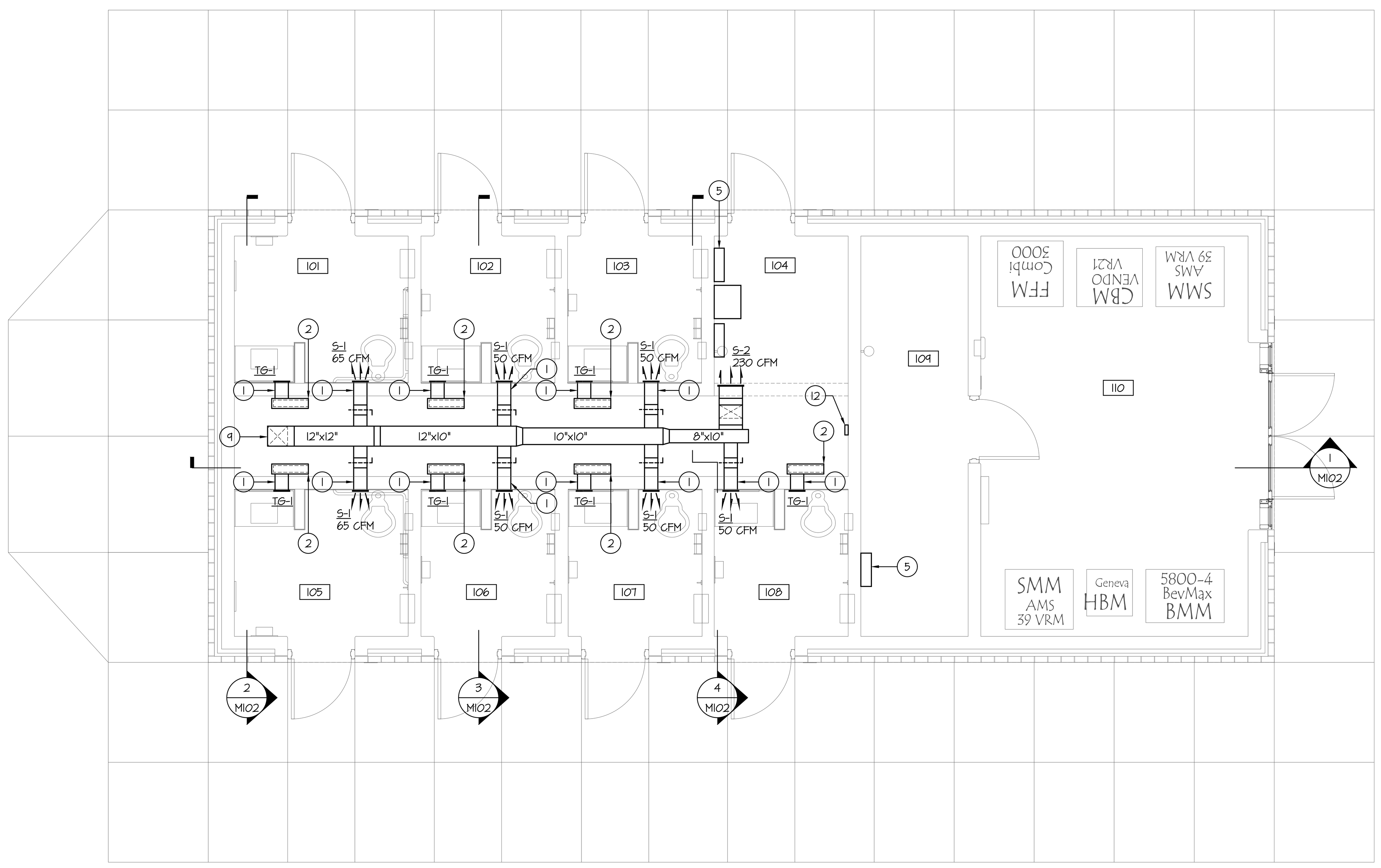
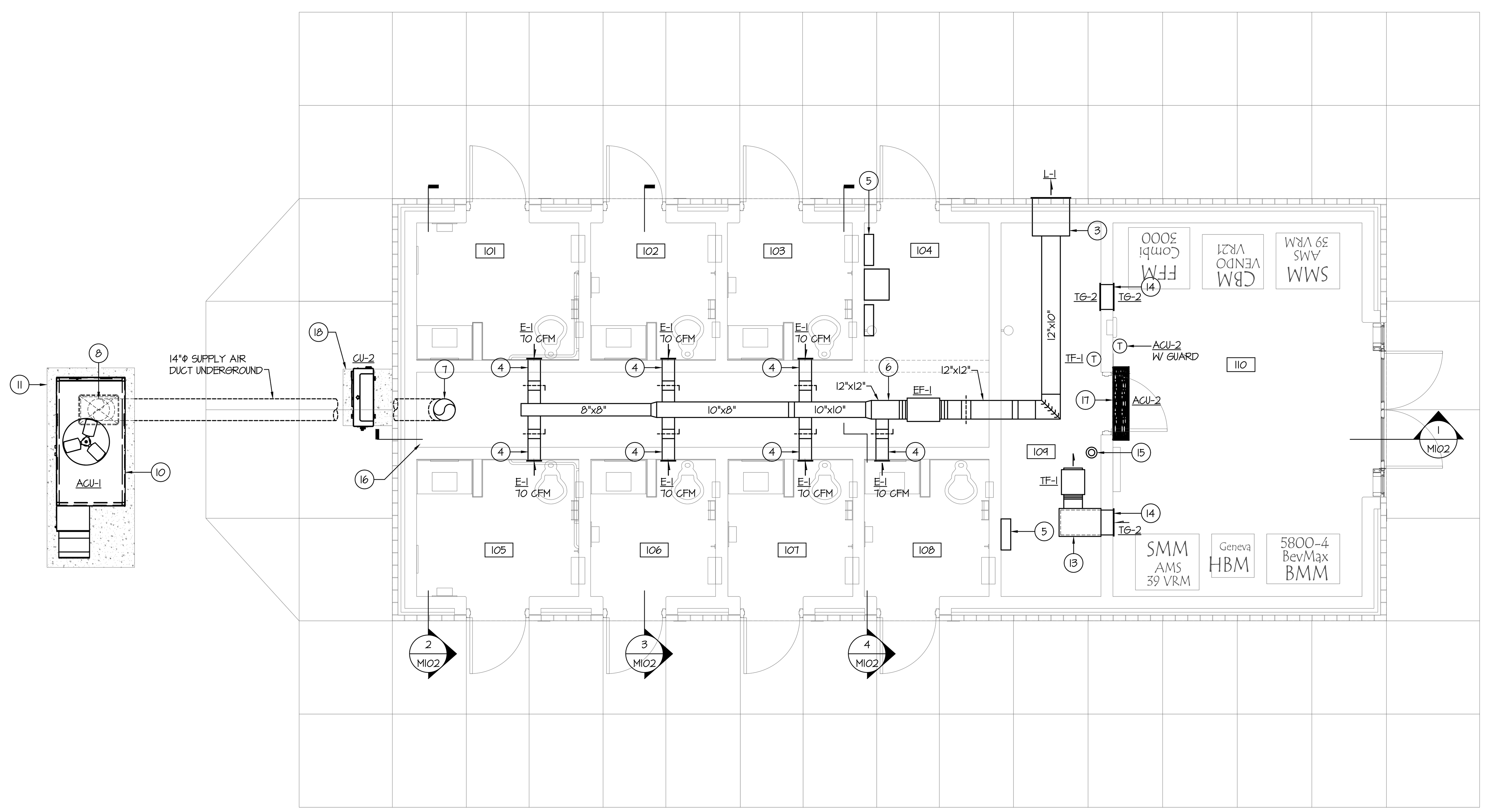


HVAC PLAN "B"
SCALE: 1/4" = 1'-0"



HVAC PLAN "A"
SCALE: 1/4" = 1'-0"

HVAC PLAN NOTES:

1. BOTTOM OF OPENING APPROXIMATELY 9'-4" ABOVE FINISHED FLOOR.
2. 6"x10" INTERNALLY INSULATED TRANSFER AIR DUCT OPEN ON END. PROVIDE 1/2"x1/2" WIRE MESH ON END OF DUCT. SIZE LISTED IS ACTUAL SHEET METAL DIMENSIONS.
3. 24" LONG, EXTERNALLY INSULATED SHEET METAL PLENUM.
4. BOTTOM OF OPENING APPROXIMATELY 8'-0" ABOVE FINISHED FLOOR.
5. ELECTRICAL EQUIPMENT. COORDINATE WITH DIVISION 26 CONTRACTOR
6. LOCATION OF DUCT MOUNTED TEMPERATURE AND HUMIDITY SENSORS.
7. EXTEND 14"Φ SUPPLY AIR DUCT APPROXIMATELY 12" ABOVE FINISHED FLOOR. SEE "HVAC PLAN B" THIS SHEET FOR CONTINUATION. COORDINATE WITH DIVISION 22 CONTRACTOR.

   PROVIDE 1/2" THICK FLEXIBLE ELASTOMERIC INSULATION ON DUCT WHERE IN CONTACT WITH CONCRETE.
8. 14"Φ SUPPLY AIR DUCT SHALL RISE UP THROUGH CONCRETE PAD. TRANSITION TO UNIT INLET SIZE IN CURB.

   PROVIDE 1/2" THICK FLEXIBLE ELASTOMERIC INSULATION ON DUCT WHERE IN CONTACT WITH CONCRETE.
9. 12"x12" SUPPLY AIR DUCT DOWN. TRANSITION TO 14"Φ SUPPLY AIR DUCT NEAR FLOOR. SEE "HVAC PLAN A" THIS SHEET FOR CONTINUATION.
10. APPLY A HEAVY COATING OF BITUMINOUS PAINT TO THE BOTTOM OF THE EQUIPMENT CURB. PROVIDE A BED OF JOINT SEALANT BETWEEN THE EQUIPMENT CURB FLANGE AND THE CONCRETE PAD. SEE SPECIFICATION SECTION 079200, "JOINT SEALANTS".
11. SEE "OUTDOOR CONCRETE PAD DETAIL 1" SHET M501.
12. AIR CONDITIONING UNIT ACU-1 SYSTEM MANAGER PANEL.

    MOUNT ABOVE ANTI-SCALE WATER CONDITIONERS. COORDINATE WITH DIVISION 22 CONTRACTOR.
13. 18"x18" INTERNALLY INSULATED TRANSFER AIR DUCT. SIZE LISTED IS ACTUAL SHEET METAL DIMENSIONS.
14. MOUNT BOTTOM OF TRANSFER AIR GRILLE 8'-8" ABOVE FINISHED FLOOR.
15. ROUTE AIR CONDITIONING UNIT ACU-2 CONDENSATE TO FLOOR DRAIN.
16. ROUTE AIR CONDITIONING UNIT ACU-2 REFRIGERANT PIPING AND CONDUIT DOWN EXPOSED ON WALL AND THROUGH WALL TO CONDENSING UNIT CU-2.
17. ROUTE PIPING AND WIRING THROUGH BACK OF UNIT.
18. SEE "OUTDOOR CONCRETE PAD DETAIL 2" SHEET M501.

ROOM NO.	ROOM NAME
101	HC / UNISEX TOILET
102	UNISEX TOILET
103	UNISEX TOILET
104	MECHANICAL
105	HC / UNISEX TOILET
106	UNISEX TOILET
107	UNISEX TOILET
108	UNISEX TOILET
109	STORAGE
110	VENDING

GENERAL HVAC NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT ETC. DO NOT SCALE THE DRAWINGS. THE EXACT LOCATION AND / OR ROUTING OF DUCTWORK, PIPING, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED ON THE DRAWINGS, SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION SO ALL DUCTWORK, PIPING, EQUIPMENT, ETC. FIT PROPERLY AND CAN BE SERVICED.
2. CAREFULLY EXAMINE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL DRAWINGS PERTAINING TO THE CONSTRUCTION. COOPERATE WITH OTHER TRADES IN LOCATING DUCTWORK, PIPING, EQUIPMENT, ETC. IN ORDER TO AVOID CONFLICT WITH OTHER TRADE'S WORK. NO CLAIM FOR COSTS WILL BE ALLOWED FOR RELOCATING DUCTWORK, PIPING, EQUIPEMENT, ETC. THAT INTERFERES WITH OTHER TRADES WORK.
3. HVAC EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE:
   - STATE BUILDING CODE
   - STATE PLUMBING CODE
   - STATE MECHANICAL CODE
   - STATE FIRE CODE
   - STATE ENERGY CODE
   - NATIONAL ELECTRIC CODE
   - APPLICABLE OSHA AND NFPA STANDARDS
   - COUNTY AND CITY BUILDING REGULATIONS AND CODES
4. PROVIDE ADDITIONAL OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO AVOID INTERFERENCE WITH STRUCTURE, PIPING, ELECTRICAL, ETC.
5. PROVIDE TURNING VANES IN ALL RECTANGULAR DUCTWORK 90° MITERED ELBOWS UNLESS INDICATED OTHERWISE.
6. PAINT INTERIOR OF ALL SHEET METAL DUCTWORK VISIBLE THROUGH FACE OF GRILLES AND DIFFUSERS FLAT BLACK.
7. IF HVAC EQUIPMENT IS USED PRIOR TO SUBSTANTIAL COMPLETION, PROVIDE TEMPORARY FILTER MEDIA AT ALL EXHAUST AIR GRILLES.
8. PROVIDE NEW FILTERS IN ALL HVAC EQUIPMENT AT TIME OF SUBSTANTIAL COMPLETION.
9. MOUNT AND / OR WIRE ALL EQUIPMENT DEVICES NOT FACTORY MOUNTED AND / OR WIRED.
10. ALL DUCTWORK SHALL BE SEALED PER REQUIREMENTS OF ASHRAE STANDARD 90.1-2007.
11. DO NOT ROUTE ANY DUCTWORK OR PIPING OVER ELECTRICAL PANELS, DISCONNECTS, ETC. COORDINATE WITH DIVISION 26 CONTRACTOR. ANY DUCTWORK OR PIPING ROUTED OVER ELECTRICAL PANELS, DISCONNECTS, ETC. SHALL BE RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL COST.
12. AT ALL EXPOSED DUCT PENETRATIONS THROUGH WALLS, PROVIDE A SHEET METAL FLANGE AROUND DUCT TO COVER ANY GAP BETWEEN DUCT AND OPENING.
13. PROVIDE ANY MISCELLANEOUS STEEL AS REQUIRED TO ATTACH EQUIPMENT TO STRUCTURE.
14. ALL EXPOSED SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS BOARD INSULATION.
15. ALL SUPPLY AIR DUCTWORK LOCATED INSIDE THE EQUIPMENT CURB SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS BLANKET INSULATION.
16. ALL EXHAUST AIR DUCTWORK FROM THE EXHAUST FAN DISCHARGE TO THE LOUVER SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS BOARD INSULATION.
17. FIBERGLASS BLANKET INSULATION:
    3" THICK, 0.75 PCF WITH FSK FACING AND A MINIMUM INSTALLED R VALUE OF 8.4.
18. FIBERGLASS BOARD INSULATION:
    1" THICK, 3.0 PCF WITH MINIMUM R VALUE OF 4.3
    PROVIDE WITH ALL SERVICE JACKET
19. FIBERGLASS DUCT LINER:
    TYPE I, 1" THICK, 1.5 PCF AND MINIMUM R VALUE OF 4.2.
20. ROUTE AIR CONDITIONING UNIT ACU-1 CONDENSATE TO GROUND.
21. CONNECT DUCTWORK TO THE FOLLOWING EQUIPMENT WITH FLEXIBLE CONNECTORS.
    - AIR CONDITIONING UNIT ACU-1
    - EXHAUST FAN EF-1
    - TRANSFER FAN TF-1
22. ALL EQUIPMENT SHALL BE INSTALLED PER NEC REQUIREMENTS AND TO ALLOW FOR CODE REQUIRED CLEARANCES AND MANUFACTURER'S RECOMMENDED CLEARANCES.
23. CAULK JOINT BETWEEN BACKDRAFT DAMPER FRAME AND DUCT AIR TIGHT.
24. ALL UNDERGROUND DUCTWORK SHALL BE AQC BLUE DUCT. THE DUCT SUPPLIER SHALL PROVIDE ALL MATERIAL REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. INSTALL PER MANUFACTURER'S INSRUCTIONS.

    PRIOR TO BACKFILLING, LEAK TEST ALL UNDERGROUND DUCTWORK AT 2.0 IN-WG FOR FIVE MINUTES PER SMACNA GUIDELINES AND MANUFACTURER INSTRUCTIONS. ALLOW 48 HOURS FOR ALL SEALANT AND ALL CAULKING TO CURE PRIOR TO ANY LEAK TESTING. REPORT RESULTS OF THE TEST TO THE MANUFACTURER. THE MANUFACTURER SHALL SUBMIT A LETTER TO THE ENGINEER STATING THAT THE RESULTS ARE IN ACCORDANCE WITH THE MANUFACTURER'S TOLERANCES.

    SEE ARCHITECTURAL / STRUCTURAL DRAWINGS FOR BACKFILL DETAIL.
25. AIR CONDITIONING UNIT ACU-1

    PROVIDE A BIPOLAR IONIZATION AIR PURIFIER IN THE UNIT.

    BIPOLAR IONIZATION AIR PURIFIER:
    02 PRIME OR GLOBAL PLASMA SOLUTIONS UTILIZING NEEDLEPOINT BIPOLAR IONIZATION TECHNOLOGY. THE EQUIPMENT SUPPLIER SHALL PROVIDE ALL MATERIAL REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

    MOUNT AND WIRE THE AIR PURIFIER PER MANUFACTURER'S INSTRUCTIONS IN THE DISCHARGE OF THE FAN. INTERLOCK THE AIR PURIFICATION SYSTEM WITH THE SUPPLY FAN SUCH THAT IT IS ONLY ENERGIZED WHEN THE SUPPLY FAN IS OPERATING. THE AIR PURIFICATION SYTEM SHALL BE POWERED FROM THE UNIT POWER SUPPLY. PROVIDE ANY REQUIRED TRANSFORMERS AND RELAYS.
26. INSULATE ALL REFRIGERANT PIPING.
27. PROVIDE TWO COATS OF UV PROTECTIVE COATING ON ALL FLEXIBLE ELASTOMERIC INSULATION LOCATED OUTSIDE.
28. PIPE AIR CONDITIONING UNIT ACU-2 TO CONDENSING UNIT CU-2 PER MANUFACTURER'S / EQUIPMENT SUPPLIER'S INSTRUCTIONS. PIPE SIZES SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER / EQUIPMENT SUPPLIER.

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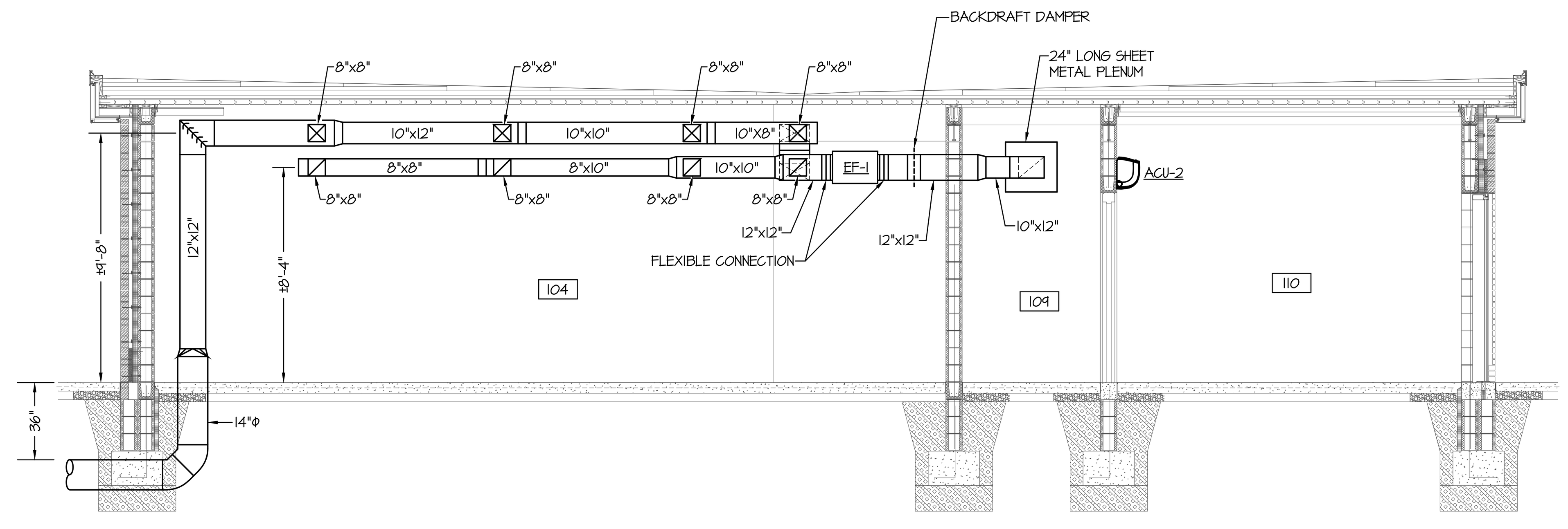
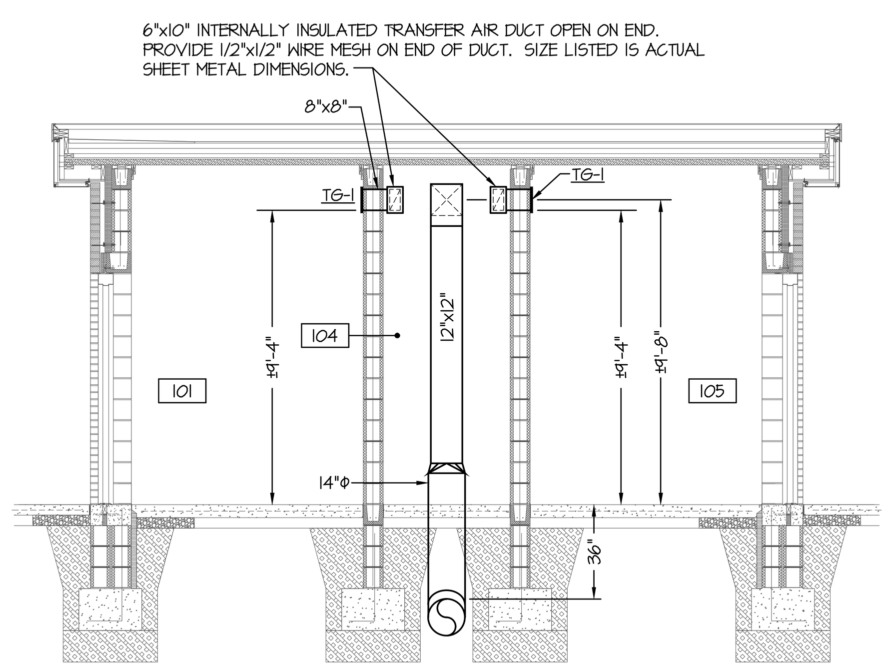


SECTION
SCALE: 1/4" = 1'-0"
1 / M102



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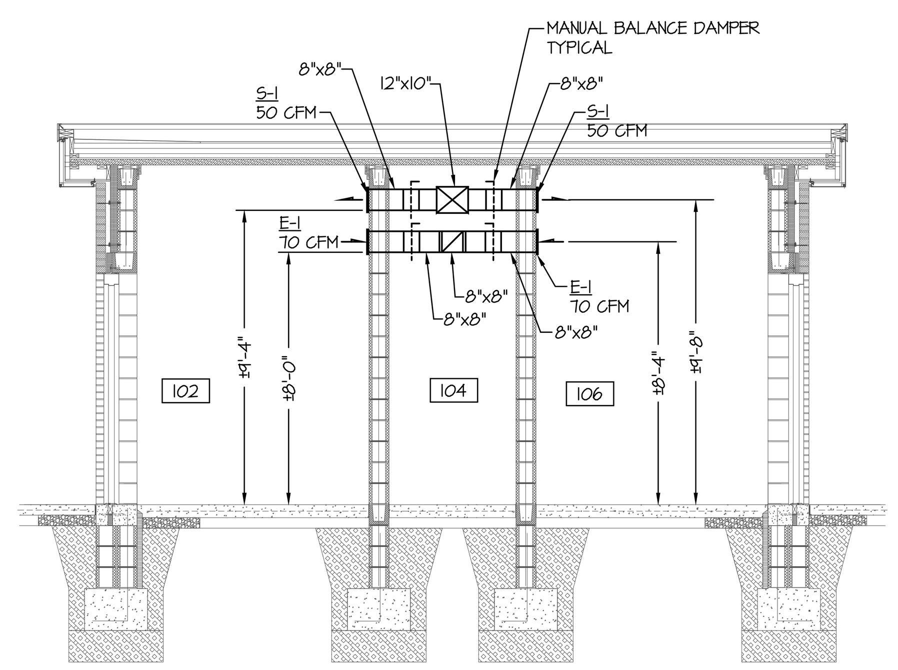
2 / M102



SECTION
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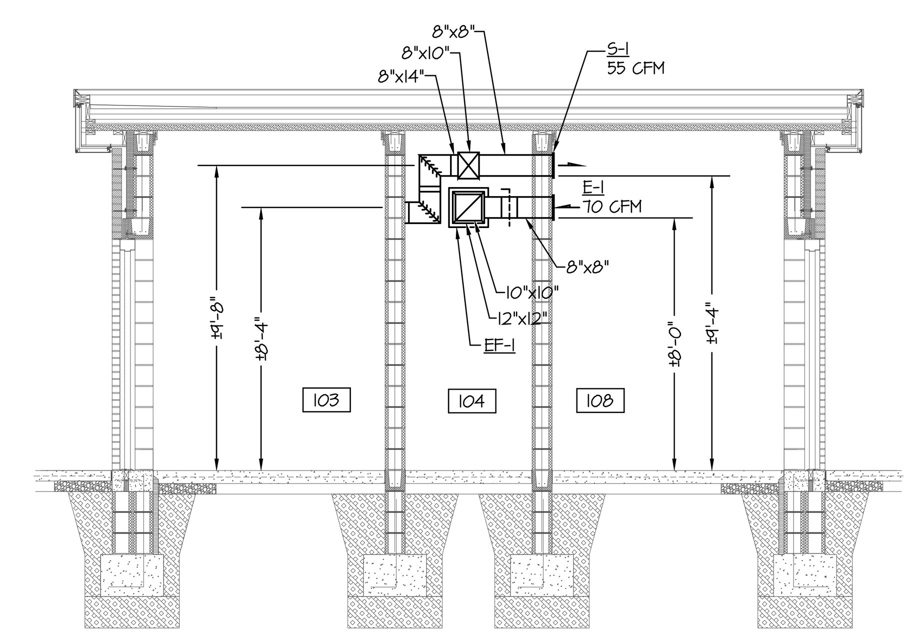
3 / M102



SECTION
SCALE: 1/4" = 1'-0"
4 / M102

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GENERAL TEMPERATURE CONTROL NOTES:

1. PROVIDE ALL LABOR AND MATERIAL AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM THAT PERFORMS THE INDICATED SEQUENCES OF OPERATION.
2. THE TEMPERATURE CONTROL SUBMITTALS SHALL INCLUDE AT MINIMUM:
   - WIRING DIAGRAMS WITH ALL TERMINATIONS LABELED
   - SEQUENCES OF OPERATION
   - BILL OF MATERIALS
3. LIST ON THE TEMPERATURE CONTROL SUBMITTALS ANY DIFFERENCES BETWEEN THE PROPOSED TEMPERATURE CONTROL SYSTEM (INCLUDING SEQUENCES OF OPERATION) AND THE SYSTEM SPECIFIED. LIST THE REASON(S) FOR DIFFERING FROM THE SPECIFICATIONS.
4. COORDINATE ALL CONTROL INTERFACES TO EQUIPMENT WITH THE EQUIPMENT MANUFACTURER / SUPPLIER.
5. ALL FIELD WIRING INSTALLED IN EQUIPMENT CONTROL PANELS, MOTOR STARTERS, ETC. SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. LOW VOLTAGE WIRING (30VAC AND LESS) SHALL BE BUNDLED TOGETHER WHERE POSSIBLE. HIGH VOLTAGE WIRING (GREATER THAN 30VAC) SHALL BE BUNDLED TOGETHER WHERE POSSIBLE.
6. ALL CABLES AND WIRING SHALL BE NUMBERED AT BOTH ENDS.
7. PROVIDE POWER TO ANY CONTROL DEVICES REQUIRING POWER. CONNECT TO SPARE BREAKER IN NEAREST ELECTRICAL PANEL.
8. AT ALL CONTROL DEVICES REQUIRING 120VAC POWER, PROVIDE A LABEL INDICATING SOURCE OF POWER (I.E. PANEL AND CIRCUIT NUMBER).
9. MOUNT AND / OR WIRE ALL CONTROL DEVICES NOT FACTORY MOUNTED AND / OR WIRED.
10. CURRENT SENSING RELAYS SHALL BE UTILIZED FOR FAN AND MOTOR STATUS.
11. THE CENTER OF ALL WALL MOUNTED CONTROL DEVICES SHALL BE THE SAME ELEVATION AS THE LIGHT SWITCHES.
12. ALL CONDUIT LOCATED INSIDE THE BUILDING SHALL BE CONCEALED UNLESS INDICATED OTHERWISE (I.E. IN WALLS, BELOW FLOORS AND ABOVE CEILINGS).
13. EXPOSED CONDUIT SHALL ONLY BE ALLOWED IN THE FOLLOWING LOCATIONS:
   - MECHANICAL 104
14. ALL WIRING SHALL BE INSTALLED IN CONDUIT.
15. UNLESS INDICATED OTHERWISE, ALL WIRING SHALL BE INSTALLED IN EMT CONDUIT WITH COMPRESSION FITTINGS.
16. ALL EXPOSED CONDUIT LOCATED OUTSIDE SHALL BE GALVANIZED OR ALUMINUM RIGID CONDUIT.
17. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC.
18. LOW VOLTAGE WIRING (LESS THAN 30VAC) AND HIGH VOLTAGE WIRING (GREATER THAN 30VAC) SHALL BE RAN IN SEPARATE CONDUITS.
19. ALL WIRING SHALL BE INSTALLED PER THE CURRENT NATIONAL ELECTRIC CODE.

SYSTEM TEMPERATURE CONTROL REQUIREMENTS:

1. AIR CONDITIONING UNIT ACU-1:

   MOUNT AND / OR WIRE ALL CONTROL DEVICES NOT FACTORY MOUNTED AND / OR WIRED. INSTALL AND WIRE PER THE MANUFACTURER'S INSTRUCTIONS.

   MOUNT THE SYSTEM MANAGER PANEL. SEE SHEET M101 FOR LOCATION. PROVIDE A 24VAC TRANSFORMER TO POWER THE SYSTEM MANAGER PANEL. CONNECT THE TRANSFORMER TO THE SYSTEM MANAGER PANEL AND TO THE ELECTRICAL CIRCUIT PROVIDED BY THE DIVISION 26 CONTRACTOR. WIRE THE SYSTEM MANAGER PANEL TO THE AIR CONDITIONING UNIT PER THE MANUFACTURER'S INSTRUCTIONS.
2. EXHAUST FAN EF-1:

   PROVIDE A CURRENT SENSING RELAY ON AIR CONDITIONING UNIT ACU-1 SUPPLY FAN FOR FAN STATUS.

   WIRE THE EXHAUST FAN TO THE CURRENT SENSING RELAY SUCH THAT THE EXHAUST FAN RUNS WHENEVER THE SUPPLY FAN RUNS.

   PROVIDE ANY REQUIRED RELAYS, TRANSFORMERS, ETC.
3. DOMESTIC WATER BOOSTER PUMP:

   MOUNT AND / OR WIRE ALL CONTROLS NOT FACTORY MOUNTED AND / OR WIRED.
4. TRANSFER FAN TF-1

   PROVIDE A NON-PROGRAMMABLE SINGLE STAGE HEAT / SINGLE STAGE COOL ELECTRONIC THERMOSTAT. THERMOSTAT SHALL BE POWERED BY 24VAC.

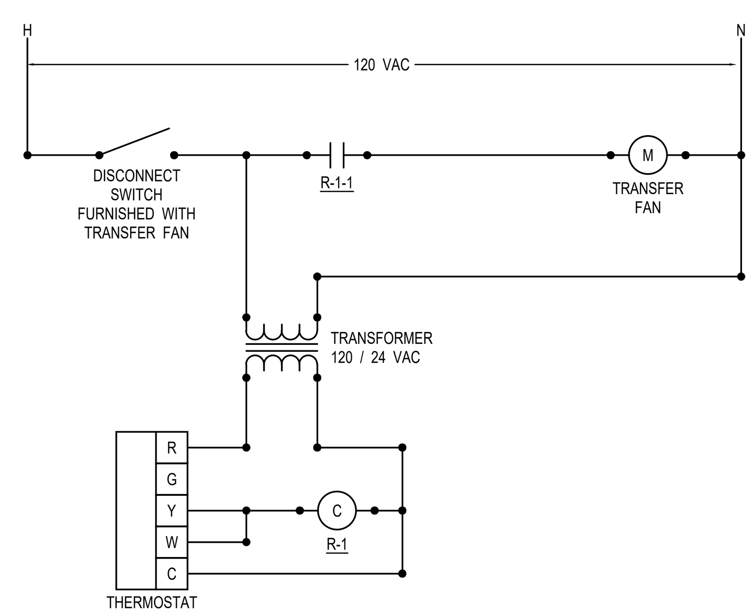
   THE THERMOSTAT SHALL CYCLE THE FAN UPON A CALL FOR HEATING OR COOLING.

   COOLING SETPOINT: 74° F
   HEATING SETPOINT: 68° F

   PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, ETC.
5. AIR CONDITIONING UNIT ACU-2 / CONDENSING UNIT CU-2

   MOUNT / WIRE ALL CONTROLS NOT FACTORY MOUNTED / WIRED.

   PROVIDE A GUARD ON THE CONTROLLER.



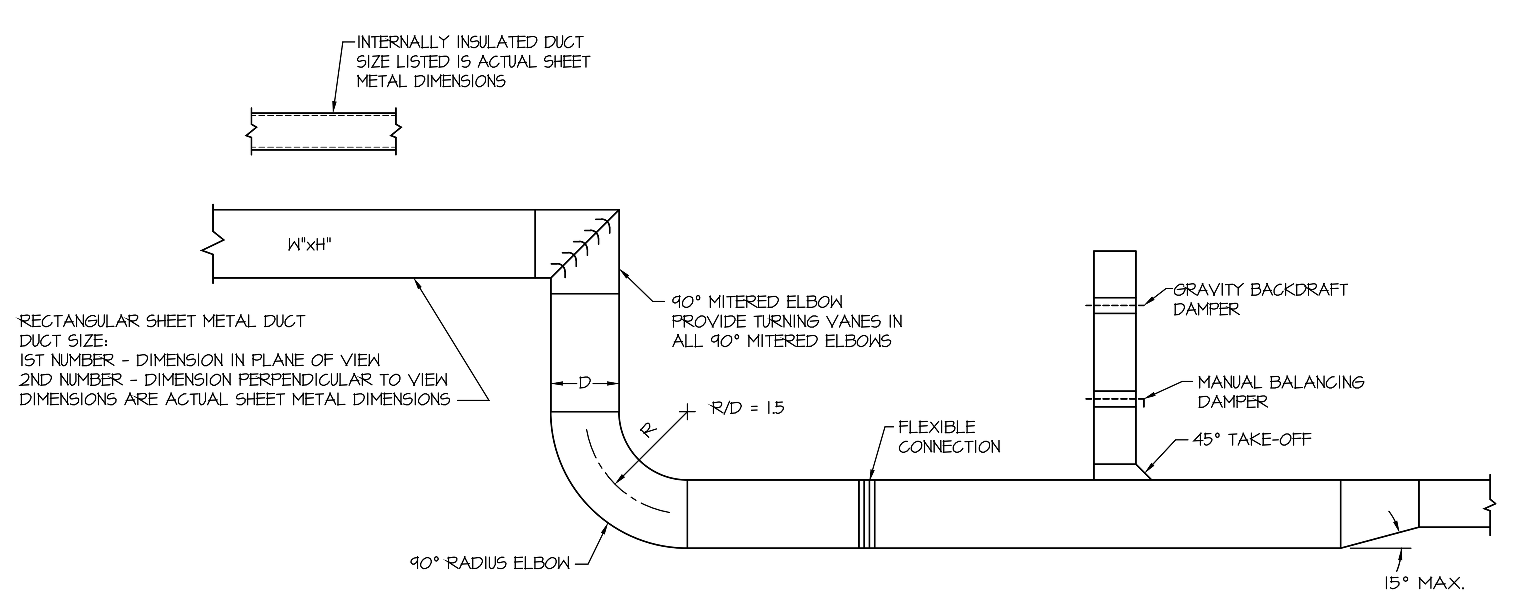
TRANSFER FAN TF-1 WIRING DIAGRAM
SCALE: NONE

SEISMIC RESTRAINTS AND VIBRATION ISOLATION

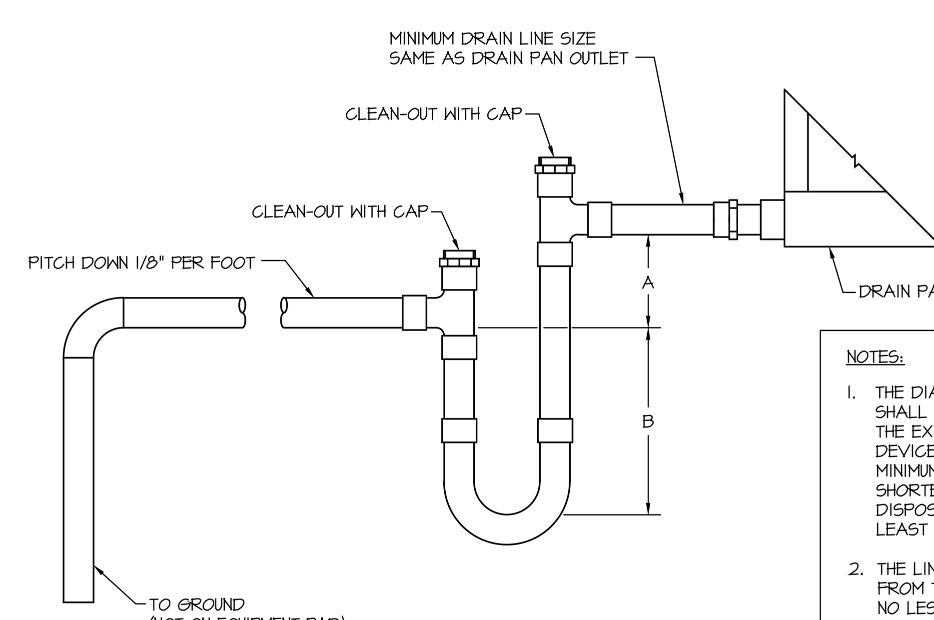
1. ALL HVAC AND ELECTRICAL EQUIPMENT, DUCTWORK, CONDUIT, ETC. SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN EQUIPMENT, DUCTWORK, CONDUIT, ETC. IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE INDIANA BUILDING CODE AND / OR LOCAL JURISDICTION BUILDING CODE.
2. PROVIDE CALCULATIONS TO DETERMINE RESTRAINT LOADS RESULTING FROM SEISMIC FORCES PRESENTED IN THE LATEST EDITION OF THE LOCAL BUILDING CODE AND / OR INDIANA BUILDING CODE. SEISMIC CALCULATIONS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF INDIANA AND IN THE DIRECT EMPLOY OF THE SEISMIC EQUIPMENT MANUFACTURER.
3. CALCULATIONS MUST SHOW THE ENTIRE LOAD PATH FROM THE EQUIPMENT TO THE BUILDING STRUCTURE AND INDICATE THE METHOD OF ATTACHMENT OF THE EQUIPMENT TO THE SEISMIC RESTRAINT AND THE SEISMIC RESTRAINT TO THE BUILDING STRUCTURE.
4. ALL DUCTWORK, CONDUIT, EQUIPMENT, ETC. REQUIRING SEISMIC RESTRAINTS SHALL BE INSTALLED SUPPORTED, BRACED, ETC. PER THE SEISMIC SUPPLIER'S INSTRUCTIONS.
5. INSTALLATION INSTRUCTIONS MUST BE SUBMITTED TO THE ENGINEER PRIOR TO THE INSTALLATION OF THE EQUIPMENT, DUCTWORK, CONDUIT, ETC.
6. SEISMIC DESIGN CATEGORY = D
7. THE IMPORTANCE FACTOR $I_p = 1.0$.
8. THE SEISMIC SUPPLIER SHALL BE ONE OF THE FOLLOWING:
   - KINETICS
   - MASON INDUSTRIES
9. THE CONTRACTOR SHALL PROVIDE ANY MISCELLANEOUS STEEL OR WOOD REQUIRED FOR MOUNTING THE EQUIPMENT AND SEISMIC RESTRAINTS TO THE STRUCTURE.
10. A REPRESENTATIVE OF THE SEISMIC SUPPLIER SHALL VISIT THE JOB SITE AS WORK PROGRESSES TO VERIFY THAT ALL SEISMIC RESTRAINTS ARE INSTALLED PER CODE REQUIREMENTS AND SEISMIC SUPPLIER INSTALLATION INSTRUCTIONS. THE REPRESENTATIVE SHALL PROVIDE A WRITTEN REPORT TO THE ENGINEER AND CONTRACTOR OF ANY DEFICIENCIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REPRESENTATIVE WHEN ALL DEFICIENCIES HAVE BEEN CORRECTED. THE REPRESENTATIVE SHALL VERIFY THAT ALL DEFICIENCIES HAVE BEEN CORRECTED. AT THE COMPLETION OF THE PROJECT, THE REPRESENTATIVE SHALL PROVIDE TO THE ENGINEER, A WRITTEN CERTIFICATION THAT ALL SEISMIC RESTRAINTS ARE INSTALLED AS REQUIRED BY CODE AND SEISMIC SUPPLIER INSTRUCTIONS.
11. THE SEISMIC SUPPLIER ASSUMES ALL RESPONSIBLITY FOR DETERMINING THE EQUIPMENT, DUCTWORK, CONDUIT, ETC. THAT REQUIRES CALCULATIONS AND SEISMIC RESTRAINTS.
12. UNLESS DETERMINED BY THE SEISMIC SUPPLIER THAT CALCULATIONS AND SEISMIC RESTRAINTS ARE NOT REQUIRED, PROVIDE SEISMIC RESTRAINTS AND CALCULATIONS FOR THE FOLLOWING EQUIPMENT. IF ANY OF THE FOLLOWING EQUIPMENT DOES NOT REQUIRE CALCULATIONS OR SEISMIC RESTRAINTS, THE SEISMIC SUPPLIER SHALL LIST ON THE SEISMIC SUBMITTALS WHY THE EQUIPMENT IS EXEMPT FROM CALCULATIONS AND SEISMIC RESTRAINTS. PROVIDE SEISMIC RESTRAINTS AND CALCULATIONS FOR ANY ADDITIONAL EQUIPMENT NOT LISTED THAT REQUIRES CALCULATIONS AND SEISMIC RESTRAINTS.
   - EXHAUST FAN EF-1
   - TRANSFER FAN TF-1
   - AIR CONDITIONING UNIT ACU-2
13. THE FOLLOWING EQUIPMENT SHALL BE SUSPENDED FROM THE STRUCTURE WITH VIBRATION ISOLATORS:
   - EXHAUST FAN EF-1
   - TRANSFER FAN TF-1
14. THE SEISMIC SUPPLIER SHALL PROVIDE A COPY OF THESE REQUIREMENTS WITH THE SEISMIC SUBMITTALS. THE SEISMIC ENGINEER SHALL SIGN THE COPY INDICATING THAT HE / SHE HAS READ ALL REQUIREMENTS. SUBMITTALS WITHOUT THIS SIGNED COPY WILL BE REJECTED.

BUILDING COMMISSIONING

1. THE COMMISSIONING AUTHORITY SHALL BE SELECTED BY THE OWNER. THE COMMISSIONING AUTHORITY SHALL BE PAID BY THE CONTRACTOR FROM THE SPECIFIED ALLOWANCE. SEE SPECIFICATIONS.
2. THE OPERATION OF THE FOLLOWING EQUIPMENT / CONTROLS SHALL BE VERIFIED USING THE COMMISSIONING PROCESS (CxP). THE CxP SHALL BE LEAD BY THE COMMISSIONING AUTHORITY (CxA).
   - AIR CONDITIONING UNIT ACU-1
   - AIR CONDITIONING UNIT ACU-2 / CONDENSING UNIT ACU-2
   - EXHAUST FAN EF-1
   - TRANSFER FAN TF-1
3. THE OPERATION OF THE EQUIPMENT / CONTROLS SHALL BE DEMONSTRATED BY THE CONTRACTOR AND / OR EQUIPMENT REPRESENTATIVE. UNLESS THE CONTRACT DOCUMENTS SPECIFICALLY REQUIRE DEMONSTRATION BY AN EQUIPMENT REPRESENTATIVE, THE CONTRACTOR MAY DEMONSTRATE OPERATION. THE PERSON DEMONSTRATING OPERATION OF THE EQUIPMENT / CONTROLS SHALL HAVE FULL WORKING KNOWLEDGE OF THE EQUIPMENT / CONTROLS THAT HE / SHE IS DEMONSTRATING.
4. PRIOR TO COMMISSIONING, THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL VERIFY OPERATION OF ALL EQUIPMENT / CONTROLS. WHEN ALL EQUIPMENT / CONTROLS ARE OPERATING PER THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CxA THAT COMMISSIONING MAY BEGIN.
5. THE CxA RESPONSIBILITIES SHALL BE AS FOLLOWS:
   - CREATE FUNCTIONAL PERFORMANCE TEST (FPT) PROTOCOLS TO VERIFY OPERATION OF ALL EQUIPMENT / CONTROLS. THESE PROCEDURES SHALL BE DEVELOPED BASED UPON ALL CONTRACT DOCUMENTATION, INCLUDING DRAWINGS, SPECIFICATIONS, REQUEST FOR INFORMATION (RFI) AND ARCHITECT'S SUPPLEMENTAL INFORMATION (ASI).
   - REVIEW FPT WITH THE ENGINEER AND THE PERSON RESPONSIBLE FOR DEMONSTRATING OPERATION OF THE EQUIPMENT / CONTROLS FOR COMPLETENESS AND OPERABILITY. UPON ACCEPTANCE BY ALL PARTIES, THE FINAL FPT DOCUMENTATION SHALL BE DISTRIBUTED TO THE CONTRACTOR / EQUIPMENT REPRESENTATIVE FOR SUPPORT OF THEIR INSTALLATION AND CHECKOUT ACTIVITIES.
   - DIRECT THE EXECUTION OF FTP TESTING BY THE CONTRACTOR / EQUIPMENT REPRESENTATIVE.
   - GENERATE AND MAINTAIN AN ISSUES AND BENEFITS LOG TO IDENTIFY ALL DEFICIENCIES AND TRACK THEIR REMEDIATION.
6. THE CONTRACTOR / EQUIPMENT REPRESENTATIVE RESPONSIBILITIES SHALL BE AS FOLLOWS:
   - PARTICIPATE IN ENGINEERING REVIEW OF FPT WITH CxA AND ENGINEER.
   - EXECUTE IN THE PRESENCE OF THE CxA THE FUNCTIONAL PERFORMANCE TESTING OF THE EQUIPMENT / CONTROLS. ALL SEQUENCES OF OPERATION SHALL BE DEMONSTRATED TO THE CxA.
7. IF ANY EQUIPMENT / CONTROLS FAIL TO PERFORM PER THE CONTRACT DOCUMENTS, THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL MAKE CORRECTIONS AS REQUIRED. THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL AGAIN DEMONSTRATE THE PREVIOUSLY "FAILED" EQUIPMENT / CONTROLS TO THE CxA. THE CONTRACTOR / EQUIPMENT REPRESENTATIVE SHALL CONTINUE TO MAKE CORRECTIONS AND DEMONSTRATE OPERATION TO THE CxA UNTIL THE EQUIPMENT / CONTROLS OPERATE PER THE CONTRACT DOCUMENTS.
8. PRIOR TO THE START OF ANY COMMISSIONING, ALL CONTRACTORS AND EQUIPMENT REPRESENTATIVES DEMONSTRATING OPERATION OF THE EQUIPMENT / CONTROLS SHALL MEET TOGETHER WITH THE CxA TO ESTABLISH A SCHEDULE FOR PERFORMING ALL COMMISSIONING. THE SCHEDULE SHALL INCLUDE THE TOTAL NUMBER OF DAYS REQUIRED TO COMPLETE THE COMMISSIONING, THE NUMBER OF CONSECUTIVE DAYS REQUIRED AND THE NUMBER OF NON-CONSECUTIVE DAYS REQUIRED. ALL PARTIES INVOLVED SHALL AGREE TO THE SCHEDULE.
9. IF THE CONTRACTOR / EQUIPMENT REPRESENTATIVE CAN NOT DEMONSTRATE COMPLIANCE WITH THE CONTRACT DOCUMENTS IN THE TIME AGREED TO IN THE SCHEDULE, THROUGH NO FAULT OF THE CxA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REIMBURSING THE CxA FOR ALL ADDITIONAL EXPENSES INCURRED INCLUDING TIME, TRAVEL, LODGING, ETC.
10. ALL COMMISSIONING SHALL BE COMPLETE PRIOR TO THE CONTRACTOR REQUESTING A PUNCH LIST BY THE ENGINEER.
11. THE CONTRACTOR SHALL PROVIDE A LIFT AND LADDER FOR USE BY THE CxA DURING THE FUNCTIONAL PERFORMANCE TESTING. COORDINATE REQUIREMENTS WITH THE COMMISSIONING AUTHORITY.



HVAC LEGEND
SCALE: NONE



UNIT TYPE	A	B
DRAW THROUGH	P + 1"	1/2 A
BLOW THROUGH	1"	P + 1"

P = FAN TOTAL STATIC PRESSURE

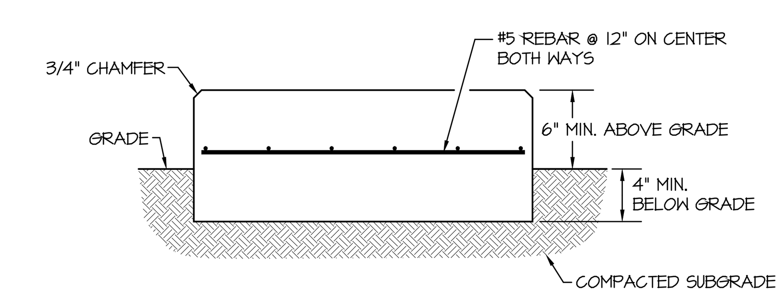
NOTES:

1. THE DIAMETER OF THE DRAIN LINE SHALL BE EQUAL TO OR GREATER THAN THE EXIT DIAMETER OF THE DRAIN SEAL DEVICE. THE LINE LENGTH SHALL BE THE MINIMUM POSSIBLE, FOLLOWING THE SHORTEST PATH TO THE CONDENSATE DISPOSAL AREA. IT SHALL INCLUDE THE LEAST POSSIBLE NUMBER OF ELBOWS.
2. THE LINE SHALL BE SLOPED AWAY FROM THE DRAIN SEAL AT A RATE OF NO LESS THAN 1/8 INCH PER FOOT.
3. DRAIN LINE SUPPORTS SHALL BE FIXED SOLIDLY IN PLACE AND PROVIDED AT INTERVALS THAT ENSURE THAT A UNIFORM SLOPE IS MAINTAINED, AND THAT ANY DIPS FORMED IN THE LINE DO NOT TRAP CONDENSATE AND DEBRIS.
4. DRAIN LINES SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC WITH LONG RADIUS ELBOWS.
5. TO AVOID EXCESSIVE DIPS IN THE DRAIN LINE AND PREVENT SHIFTING OF POSITION, FIXED SUPPORTS SHALL BE PROVIDED AS FOLLOWS: 4 TO 6 FT

CONDENSATE DRAIN DETAIL
SCALE: NONE

NOTES:

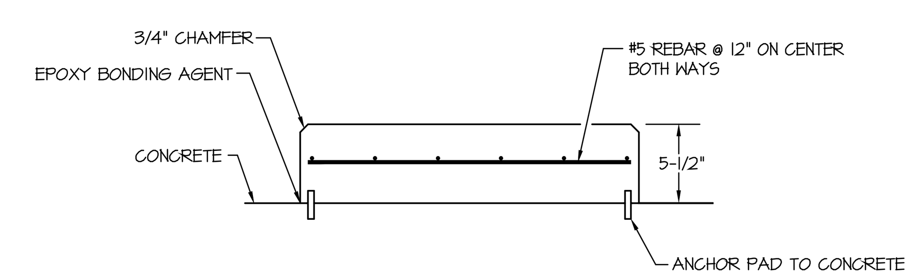
1. PAD SHALL EXTEND MINIMUM 6" BEYOND EQUIPMENT ANCHORS.
2. POSITIVELY ATTACH ALL OUTDOOR EQUIPMENT TO PAD.



OUTDOOR CONCRETE PAD DETAIL 1
SCALE: NONE

NOTES:

1. PAD SHALL EXTEND MINIMUM 6" BEYOND EQUIPMENT ANCHORS.
2. POSITIVELY ATTACH ALL OUTDOOR EQUIPMENT TO PAD.
3. WHERE PAD IS IN CONTACT WITH THE BUILDING, PROVIDE EXPANSION JOINT AND SEAL WITH SEALANT.
4. SLOPE TOP OF PAD AWAY FROM BUILDING.



OUTDOOR CONCRETE PAD DETAIL 2
SCALE: NONE

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PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE SB TRUCK PARKING
TAYLORSVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION
INDOT

Revisions:

Project Number: 03003001-24-025-C1
Requisition Number: .
Account Number: .
Designer:
Drawing Date: SEP 2024
Drafter:
Drawing Scale:
DAPW Approval:
Client Approval:
Reference Number: 1385N
Building Reference: TR
Drawing Number: M501
Sheet: 20 of 22

SCHEDULE OF EXHAUST AND TRANSFER FANS

ELEVATION: 791 FEET

SYMBOL	MANUFACTURER	MODEL	SIZE	TYPE	CFM	ESP IN-WG	TSP IN-WG	DRIVE	DRIVE LOSS %	RPM	BHP	HP	FLA	MCA	MOP	ELECTRICAL	MAX SONES	MOUNTING	NOTES
EF-1	GREENHECK	SQ	99-VG	CENTRIFUGAL INLINE	490	0.5	0.558	DIRECT	-	1407	0.14	1/4	2.85	4.0	15.0	115V, 60HZ, 1Φ	10.1 / 9.6	INLINE	1, 2
TF-1	GREENHECK	SQ	95-VG	CENTRIFUGAL INLINE	500	0.2	0.253	DIRECT	-	1288	0.06	1/6	2.20	3.0	15.0	115V, 60HZ, 1Φ	6.3 / 5.6	INLINE	1, 3

NOTES:

1. SONES LISTED ARE INLET AND RADIATED RESPECTIVELY.
2. PROVIDE WITH:
   - MOTOR - VARI-GREEN EC MOTOR
   - CONTROL - VARI-GREEN DIAL ON EXTERIOR OF FAN HOUSING, MOUNTED AND WIRED
   - MOTOR ENCLOSURE - TENV
   - UL 705 LISTED - "POWER VENTILATORS"
   - JUNCTION BOX MOUNTED AND WIRED
   - SWITCH, NEMA-1, TOGGLE
   - ALUMINUM WHEEL MATERIAL
   - WD-330 GRAVITY OPERATED BACKDRAFT DAMPER
3. PROVIDE WITH:
   - MOTOR - VARI-GREEN EC MOTOR
   - CONTROL - VARI-GREEN DIAL ON EXTERIOR OF FAN HOUSING, MOUNTED AND WIRED
   - MOTOR ENCLOSURE - TENV
   - UL 705 LISTED - "POWER VENTILATORS"
   - JUNCTION BOX MOUNTED AND WIRED
   - SWITCH, NEMA-1, TOGGLE
   - COMPOSITE WHEEL MATERIAL
   - MOTOR COVER
   - OUTLET GUARD

PRESSURE DROP (IN-WG)		
COMPONENT	EF-1	TF-1
EXTERNAL	0.50	0.20
DAMPER	0.058	-
OUTLET GUARD	-	0.045
FREE DISCHARGE	-	0.008
TOTAL	0.558	0.253

SCHEDULE OF GRILLES & DIFFUSERS

SYMBOL	MANUFACTURER	TYPE	MODEL	PANEL SIZE	INLET SIZE	ROUND NECK ADAPTOR	NOMINAL CFM	THROW	NC	PD IN-WG STATIC	PD IN-WG TOTAL	MOUNTING	NOTES
S-1	PRICE	HEAVY DUTY DOUBLE DEFLECTION	920	-	8"x8"	-	105	5-9-18	< 15	-	0.01	SIDEWALL	1, 2, 3, 4, 7
S-2	PRICE	HEAVY DUTY DOUBLE DEFLECTION	920D	-	14"x8"	-	240	10-15-28	< 15	-	0.02	EXPOSED DUCT	1, 2, 3, 4, 6
E-1	PRICE	HEAVY DUTY BAR	96	-	8"x8"	-	70	-	< 15	0.01	-	SIDEWALL	1, 5, 7
TG-1	PRICE	HEAVY DUTY BAR	96	-	8"x8"	-	-	-	-	-	-	SIDEWALL	5, 7
TG-2	PRICE	HEAVY DUTY BAR	96	-	16"x16"	-	500	-	< 15	0.01	-	SIDEWALL	1, 5, 7

NOTES:

1. SUBMITTALS SHALL INCLUDE PERFORMANCE DATA IN SAME FORMAT AS SCHEDULE. SUBMITTALS WITHOUT PERFORMANCE DATA WILL BE REJECTED.
2. THROW VALUES BASED ON TERMINAL VELOCITIES OF 150 FPM, 100 FPM AND 50 FPM RESPECTIVELY.
3. PERFORMANCE BASED ON 0° DEFLECTION.
4. FRONT BLADES HORIZONTAL.
5. 3/4" BLADE SPACING, 45° DEFLECTION, HORIZONTAL BLADES
6. PROVIDE WITH VOLUME CONTROL DAMPER.
7. COLOR SHALL BE SELECTED BY ARCHITECT. COLOR SHALL BE CUSTOM COLOR.

SCHEDULE OF LOUVERS

SYMBOL	MANUFACTURER	SERVICE	MODEL	SIZE	CFM	APD IN-WG	FREE AREA SF	FREE AREA VELOCITY FPM	NOTES
L-1	GREENHECK	EXHAUST	ESD-403	24"x24"	490	0.011	1.78	276	1, 2, 3

NOTES:

1. PROVIDE WITH:
   - ALUMINUM BIRDSCREEN (SAME COLOR AS LOUVER)
   - 10 YEAR FINISH WARRANTY
2. FINISH SHALL BE 2 COAT 70% KYNAR / 100% FLUOROPOLYMER. COLOR SHALL BE SELECTED BY ARCHITECT. COLOR SHALL BE CUSTOM COLOR.
3. APPROVED EQUALS:
   - RUSKIN
   - CESCO
   - CARNES

IF EQUIPMENT OTHER THAN THE BASIS OF DESIGN IS PROVIDED, THE CONTRACTOR AND EQUIPMENT SUPPLIER SHALL VERIFY THAT THE EQUIPMENT WILL FIT IN THE SPACE PROVIDED WITH ADEQUATE CLEARANCE FOR SERVICE AND REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

IF EQUIPMENT WITH ELECTRICAL CHARACTERISTICS (HP, MCA, MOCP, VOLTAGE, ETC.) DIFFERENT THAN THAT SPECIFIED IS PROVIDED, THE EQUIPMENT SUPPLIER SHALL COORDINATE ALL REQUIRED ELECTRICAL CHANGES WITH THE DIVISION 26 CONTRACTOR. THE EQUIPMENT SUPPLIER SHALL ASSUME ALL RESPONSIBILITY FOR THE REQUIRED CHANGES. THE EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS ASSOCIATED WITH THE CHANGES WITH NO CHANGE IN THE CONTRACT PRICE.

SCHEDULE OF SPLIT SYSTEM HEAT PUMPS

MANUFACTURER	TYPE	MODEL	INDOOR UNIT			OUTDOOR UNIT		ELECTRICAL			COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)	SEER	HSPF	NOTES
			SYMBOL	MODEL	TYPE	SYMBOL	MODEL	VOLTAGE	MCA	MOP	SENSIBLE	TOTAL				
LG	HEAT PUMP	LS363HLV3	ACU-2	LSN363HLV3	WALL MOUNTED	CU-2	LSU363HLV3	208V, 60HZ, 1Φ	23.0	30.0	23.21	29.60	17.06	19.0	7.9	1, 2, 3, 4, 5

NOTES:

1. COOLING CAPACITY BASED ON 72.0° F DB / 61.0° F WB INDOOR AND 95.0° F DB OUTDOOR. HEATING CAPACITY BASED ON 70° F DB INDOOR AND -3.0° F DB / -4.0° F WB OUTDOOR.
2. PROVIDE WITH:
   - WIRED REMOTE CONTROLLER
   - WIND BAFFLE FOR LOW AMBIENT COOLING TO 0.0° F
   - INVERTER COMPRESSOR
   - DRAIN PAN LEVEL SENSOR / CONTROL
3. REFRIGERANT LINE SIZES SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
4. REFRIGERANT: R-410A OR R-454B
5. PROVIDE FACTORY START-UP AND OWNER TRAINING BY A FACTORY REPRESENTATIVE.

SCHEDULE OF ROOFTOP UNITS

ELEVATION: 791 FEET

SYMBOL	MANUFACTURER	MODEL	UNIT SIZE	SUPPLY FAN CFM	SUPPLY FAN	SUPPLY FAN HP	EXH FAN CFM	EXHAUST FAN	EXH FAN HP	MIN. OA CFM	EVAP COIL ROWS	EVAP COIL FINS/IN	FLA	MCA	MOP	ELECTRICAL
ACU-1	AAON	RQA	004	610	RQ185D60	1.0	-	-	-	610	4	14	34.0	42.0	45.0	460V, 60HZ, 3Φ

SYMBOL	COOLING											
	AMBIENT DB	COIL EAT DB	COIL EAT WB	COIL LAT DB	COIL LAT WB	UNIT LAT DB	UNIT LAT WB	GROSS CAPACITY (MBH) SENSIBLE	GROSS CAPACITY (MBH) TOTAL	NET CAPACITY (MBH) SENSIBLE	NET CAPACITY (MBH) TOTAL
ACU-1	91.0	91.0	75.0	49.6	49.6	52.2	50.7	25.7	47.1	24.0	45.4

SYMBOL	PREHEAT					HEATING					NOTES
	EAT DB	LAT DB	TYPE	CAPACITY (KW) TOTAL	CAPACITY (KW) USED	EAT DB	LAT DB	TYPE	CAPACITY KW	CAPACITY MBH	
ACU-1	-3.0	60.0	ELECTRIC	15.0	11.8	60.0	113.3	ELECTRIC	10.0	34.1	1, 2, 3, 4, 5, 6, 7, 8, 9

NOTES:

1. ALL TEMPERATURES LISTED ARE IN DEGREES FAHRENHEIT.
2. EXTERNAL STATIC PRESSURE IS FOR DUCTWORK ONLY. IT DOES NOT INCLUDE FILTERS, COILS, ECONOMIZERS, ETC.
3. PROVIDE WITH 24" TALL CURB FOR GROUND MOUNTING. CURB SHALL HAVE SOLID BOTTOM. CURB SHALL BE INTERNALLY INSULATED ON ALL SIDES AND BOTTOM. BOTTOM OF CURB SHALL BE FIELD CUT FOR DUCT PENETRATION. INSULATION SHALL HAVE A MINIMUM R VALUE OF 6.0. CURB COLOR SHALL BE SELECTED BY ARCHITECT. COLOR SHALL BE CUSTOM COLOR.
4. UNIT COLOR SHALL BE SELECTED BY ARCHITECT. COLOR SHALL BE CUSTOM COLOR.
5. UNIT SHALL MEET OR EXCEED ALL EFFICIENCIES AND REQUIREMENTS OF ASHRAE STANDARD 90.1-2007.
6. A FACTORY ENGINEER SHALL REVIEW THE REQUIRED SEQUENCES OF OPERATION PRIOR TO BIDDING. THE FACTORY ENGINEER SHALL NOTIFY THE ENGINEER OF ANY PARTS OF THE SEQUENCE THAT THE EQUIPMENT CAN NOT MEET.
7. PRIOR TO EQUIPMENT STARTUP, THE SALES ENGINEER AND STARTUP TECHNICIAN SHALL MEET WITH THE ENGINEER TO DISCUSS SEQUENCES OF OPERATION AND CONTROL PARAMETERS.
8. PROVIDE START-UP AND OWNER TRAINING BY A FACTORY TRAINED REPRESENTATIVE.
9. A FACTORY TRAINED REPRESENTATIVE SHALL DEMONSTRATE OPERATION OF THE UNIT AND ALL SEQUENCES OF OPERATION TO THE COMMISSIONING AUTHORITY. SEE SHEET M501 FOR ADDITIONAL REQUIREMENTS PERTAINING TO BUILDING COMMISSIONING.

PRESSURE DROP (IN-WG)	
COMPONENT	ACU-1
EXTERNAL	1.50
EVAPORATOR	0.06
FILTERS CLEAN	0.01
FILTERS DIRT ALLOWANCE	0.35
REHEAT COIL	0.01
PREHEAT COIL	0.02
HEATING	0.03
CABINET	0.01
TOTAL SUPPLY	2.32

OPTION	ACU-1
R-454B VARIABLE SPEED SCROLL COMPRESSOR	X
HIGH EFFICIENCY MICROCHANNEL AIR-COOLED CONDENSER	X
MODULATING SCR ELECTRIC HEAT	X
STANDARD ACCESS - HINGED ACCESS DOORS W/ LOCKABLE HANDLES	X
BOTTOM SUPPLY - BOTTOM RETURN	X
DIRECT DRIVE SUPPLY FAN WITH EC MOTOR	X
MOTORIZED 100% OUTSIDE AIR DAMPERS - NO RETURN AIR OPENING	X
2 POSITION ACTUATOR	X
2" PLEATED - MERV 8 FILTERS	X
MODULATING HOT GAS REHEAT	X
SIGHT GLASS	X
COMPRESSOR ISOLATION VALVES	X
NON-FUSED DISCONNECT POWER SWITCH	X
REMOTE SAFETY SHUTDOWN TERMINALS	X
PHASE AND BROWN OUT PROTECTION	X
CONSTANT VOLUME COOLING - CONSTANT VOLUME HEATING	X
MODULATING ELECTRIC OUTSIDE AIR PREHEAT	X
OUTSIDE AIR HOOD	X
METAL MESH OUTSIDE AIR PREFILTER	X
BASE INSULATION	X
FACTORY WIRED 115V CONVENIENCE OUTLET	X
CONDENSER COIL SCREEN	X
ECM CONDENSER FAN HEAD PRESSURE CONTROL	X
CONDENSATE OVERFLOW SWITCH	X
10 YEAR PARTS WARRANTY	X
GALVANIZED CABINET - DOUBLE WALL - R-13 FOAM INSULATION	X
SUPPLY AIR DUCT STATIC PRESSURE SENSOR	X
VCCX CONTROLLER	X
DUCT MOUNTED TEMPERATURE SENSOR	X
DUCT MOUNTED HUMIDITY SENSOR	X
MODULAR SYSTEM MANAGER	X

SEQUENCE OF OPERATION:

THE CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER.

THE CONTROLLER SHALL START THE SUPPLY FAN. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY.

THE CONTROLLER SHALL MODULATE THE SUPPLY FAN SPEED TO MAINTAIN DISCHARGE STATIC PRESSURE SETPOINT IN THE SUPPLY AIR DUCT.

THE DISCHARGE STATIC PRESSURE SETPOINT SHALL BE DETERMINED BY THE TEST AND BALANCE CONTRACTOR.

THE MODE OF OPERATION SHALL BE DETERMINED BASED UPON DUCT EXHAUST AIR TEMPERATURE AND HUMIDITY.

- COOLING MODE
- HEATING MODE
- VENT MODE
- COOLING DEHUMIDIFICATION MODE
- HEATING DEHUMIDIFICATION MODE
- VENT DEHUMIDIFICATION MODE

COOLING MODE

OUTSIDE AIR TEMPERATURE ABOVE COMPRESSOR LOCKOUT TEMPERATURE

THE CONTROLLER SHALL MODULATE THE COMPRESSOR TO MAINTAIN COOLING SUPPLY AIR TEMPERATURE SETPOINT.

THE COOLING SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET LINEARLY FROM 52.0° F AT 74.0° F SPACE TEMPERATURE TO 72.0° F AT 72.0° F SPACE TEMPERATURE. THE RESET SCHEDULE SHALL BE ADJUSTABLE.

HEATING MODE

THE CONTROLLER SHALL MODULATE THE ELECTRIC PREHEAT TO MAINTAIN PREHEAT DISCHARGE AIR TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MODULATE THE ELECTRIC HEAT TO MAINTAIN HEATING SUPPLY AIR TEMPERATURE SETPOINT.

THE HEATING SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET LINEARLY FROM 100.0° F AT 69.0° F SPACE TEMPERATURE TO 60.0° F AT 71.0° F SPACE TEMPERATURE. THE RESET SCHEDULE SHALL BE ADJUSTABLE.

VENT MODE

THE COMPRESSOR AND ELECTRIC HEAT SHALL BE OFF.

COOLING DEHUMIDIFICATION MODE

OUTSIDE AIR TEMPERATURE ABOVE COMPRESSOR LOCKOUT TEMPERATURE

THE CONTROLLER SHALL MODULATE THE COMPRESSOR TO MAINTAIN SUCTION TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MODULATE THE HOT GAS REHEAT IN SEQUENCE WITH THE ELECTRIC HEAT TO MAINTAIN COOLING SUPPLY AIR TEMPERATURE SETPOINT.

HEATING DEHUMIDIFICATION MODE

OUTSIDE AIR TEMPERATURE ABOVE COMPRESSOR LOCKOUT TEMPERATURE

THE CONTROLLER SHALL MODULATE THE COMPRESSOR TO MAINTAIN SUCTION TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MODULATE THE HOT GAS REHEAT IN SEQUENCE WITH THE ELECTRIC HEAT TO MAINTAIN HEATING SUPPLY AIR TEMPERATURE SETPOINT.

VENT MODE - DEHUMIDIFICATION

OUTSIDE AIR TEMPERATURE ABOVE COMPRESSOR LOCKOUT TEMPERATURE

THE CONTROLLER SHALL MODULATE THE COMPRESSOR TO MAINTAIN SUCTION TEMPERATURE SETPOINT.

THE CONTROLLER SHALL MODULATE THE HOT GAS REHEAT IN SEQUENCE WITH THE ELECTRIC HEAT TO MAINTAIN VENT MODE SUPPLY AIR TEMPERATURE SETPOINT.

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PUBLIC WORKS PROJECT NO. 03003001-24-025-C1
TAYLORSVILLE SB TRUCK PARKING
TAYLORSVILLE, INDIANA

Revisions:

Project Number: 03003001-24-025-C1
Requisition Number:
Account Number:
Designer:
Drawing Date: SEP 2024
Drafter:
Drawing Scale:
DAPW Approval:
Client Approval:
Reference Number: 1385N
Building Reference: TR
Drawing Number: M601

PANELBOARD TRH

225A, 277/480V, 3Φ, 4W, 22KAIC
200A/3P MAIN CIRCUIT BREAKER

CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE	CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE
1	AC UNIT	45A/3	3#6,1#10, 1"C	2	SPARE	20/1	
3				4	SPARE	20/1	
5				6	SPARE	20/1	
7	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	8	PANEL TRL	60A/3	SEE ONE LINE
9	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	10			
11	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	12			
13	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	14	LIGHTING	20/1	2#12,1#12G, 1/2"C
15	ELECT. WATER HEATER 4KW	20/1	2#10,1#10G, 1/2"C	16	EXTERIOR LIGHTING	20/1	2#12,1#12G, 1/2"C
17	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	18	SPARE	20/1	
19	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	20	SPARE	20/1	
21	INST. WATER HEATER 6KW	30/1	2#10,1#10G, 1/2"C	22	SPARE	20/1	
23	BOOSTER PUMP	15/3	3#12,1#12G, 1/2"C	24	SPARE	20/1	
25				26	SPARE	20/1	
27				28	SPARE	20/1	
29	SPARE	20/1		30	SPARE	20/1	
31	SPARE	20/1		32	SPARE	20/1	
33	SPARE	20/1		34	SPARE	20/1	
35	SPARE	20/1		36	SPARE	20/1	
37	SPARE	20/1		38			
39	SPARE	20/1		40			
41	SPARE	20/1		42			

PANELBOARD TRL

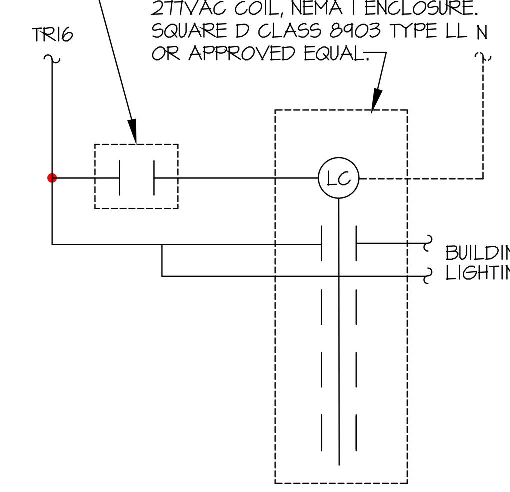
225A, 120/208V, 3Φ, 4W, 22KAIC
125A/3P MAIN CIRCUIT BREAKER

CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE	CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE
1	SPARE	20/1		2	HAND DRYER	20/1	2#12,1#12G, 1/2"C
3	SPARE	20/1		4	HAND DRYER	20/1	2#12,1#12G, 1/2"C
5	EF-1	20/1	2#12,1#12G, 1/2"C	6	HAND DRYER	20/1	2#12,1#12G, 1/2"C
7	AUTO VALVES	20/1	2#12,1#12G, 1/2"C	8	HAND DRYER	20/1	2#12,1#12G, 1/2"C
9	AUTO VALVES	20/1	2#12,1#12G, 1/2"C	10	HAND DRYER	20/1	2#12,1#12G, 1/2"C
11	RECEPTACLE	20/1	2#12,1#12G, 1/2"C	12	HAND DRYER	20/1	2#12,1#12G, 1/2"C
13	RECEPTACLE	20/1	2#12,1#12G, 1/2"C	14	HAND DRYER	20/1	2#12,1#12G, 1/2"C
15	RECEPTACLE	20/1	2#12,1#12G, 1/2"C	16	RECEPTACLE	20/1	2#12,1#12G, 1/2"C
17	RECEPTACLE	20/1	2#12,1#12G, 1/2"C	18	RECEPTACLE	20/1	2#12,1#12G, 1/2"C
19	SPARE	20/1		20	RECEPTACLE	20/1	2#12,1#12G, 1/2"C
21	SPARE	20/1		22	MECH RM RECEPTACLES	20/1	2#12,1#12G, 1/2"C
23	SPARE	20/1		24	AC SYSTEM MANGER PANEL	20/1	2#12,1#12G, 1/2"C
25	SPARE	20/1		26	PANEL TRV	60A/3	SEE ONE LINE
27	SPARE	20/1		28			
29	SPARE	20/1		30			

PANELBOARD TRV

100A, 120/208V, 3Φ, 4W, 22KAIC
60A/3P MAIN CIRCUIT BREAKER

CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE	CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE
1	AC UNIT	30/2	2#10,1#10G, 3/4"C	2	LIGHTING	20/1	2#12,1#12G, 1/2"C
3				4	SPARE	20/1	
5	FAN TR-1	20/1	2#12,1#12G, 1/2"C	6	WATER HEATER	25/2	2#10,1#10G, 1/2"C
7	RECEPTACLE	20/1	2#12,1#12G, 1/2"C	8			
9	VENDING RECEPTACLE	20/1	2#12,1#12G, 1/2"C	10	SPARE	20/1	
11	VENDING RECEPTACLE	20/1	2#12,1#12G, 1/2"C	12	SPARE	20/1	
13	VENDING RECEPTACLE	20/1	2#12,1#12G, 1/2"C	14	SPARE	20/1	
15	VENDING RECEPTACLE	20/1	2#12,1#12G, 1/2"C	16	SPARE	20/1	
17	VENDING RECEPTACLE	20/1	2#12,1#12G, 1/2"C	18	SPARE	20/1	
19	VENDING RECEPTACLE	20/1	2#12,1#12G, 1/2"C	20	SPARE	20/1	
21	SPARE	20/1		22	SPARE	20/1	
23	SPARE	20/1		24	SPARE	20/1	



PROVIDE TIME CLOCK/PHOTOCELL AT TRUCKERS RESTROOM

LIGHTING CONTACTOR 'TRLCE' CONTROL WIRING DIAGRAM

N.T.S.

LIGHTING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NUMBER	LED LAMP WATTS	VOLT	MOUNTING	FINISH	REMARKS
A	PINNACLE LIGHTING	EX4D A 840VHO 4SU FSD 1 CC	36	277	SURFACE	--	MULTI VOLT
AE	PINNACLE LIGHTING	EX4D A 840VHO 4SU FSD 1 IFSB CC	36	277	SURFACE	--	MULTI VOLT, PROVIDE 10W INTEGRAL (NOT REMOTE) EMERGENCY BATTERY.
B	LITHONIA	ELM4L WPVS	6.6	277	WALL	--	MOUNT 9' A.F.F. TO BOTTOM
C	LITHONIA	CLX-L48-5000LM-SEF-FDL-MVOLT-40K-80CRI-WH	35	277	CHAIN/SURFACE	--	MOUNT BELOW DUCTWORK, FIELD LOCATE.
D	LITHONIA	DSXW1-LED 10C 1000-35K-T3M-MVOLT-THK-DDBXD	39	277	WALL	STANDARD	MOUNT 7'-6" A.F.F. TO BOTTOM.
DE	LITHONIA	DSXW1-LED 10C 1000-35K-T3M-MVOLT-THK-DDBXD-ELCW	39	277	WALL	STANDARD	MOUNT 7'-6" A.F.F. TO BOTTOM, PROVIDE EMERGENCY BATTERY.
E	LITHONIA	LHQM-LED-W-R-120/277-ELN-SD	FURNISHED W/ UNIT	277	WALL	--	MULTI VOLT, MOUNT DIRECTLY ABOVE DOOR.

LIGHTING FIXTURE SCHEDULE GENERAL NOTES: ALL INTERIOR LED LAMPS SHALL BE 4100K, EXTERIOR 3500K COLOR TEMPERATURE, SHOP DRAWING CUT SHEETS MUST HAVE PHOTOMETRIC DATA INCLUDED WITH SUBMITTAL SPECIFIC TO THE FIXTURE SPECIFIED.

GENERAL NOTES:

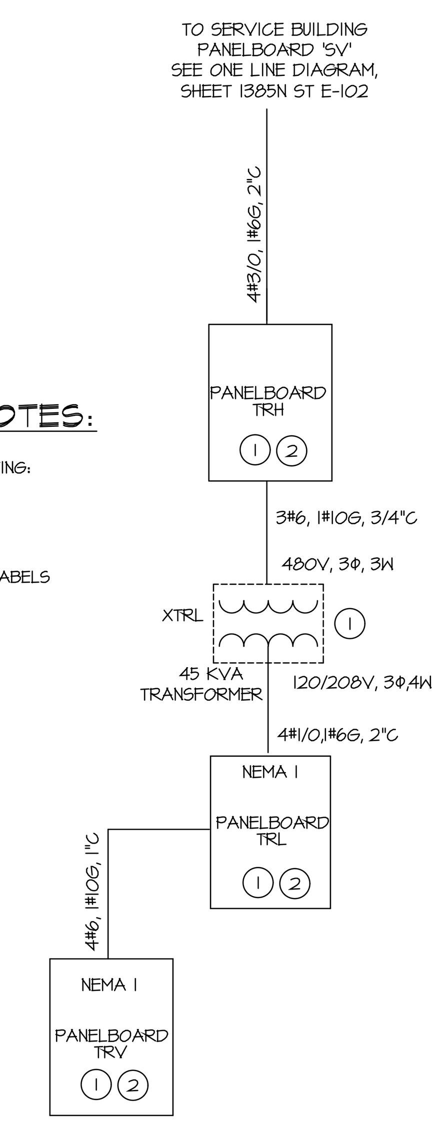
1. ALL ELECTRICAL CONDUITS IN ALL AREAS SHALL BE CONCEALED IN WALLS, UNDERGROUND OR IN INSULATION ABOVE WOOD CEILING UNLESS NOTED BELOW.
   EXPOSED CONDUIT SHALL BE ALLOWED IN MECHANICAL ROOM 100 ONLY.
2. ALL RECEPTACLES, WIREMOLD, DISCONNECT SWITCHES, CONTROL PANELS AND ALL OTHER ELECTRICAL EQUIPMENT SHALL BE LABELED PER SPECIFICATIONS, WITH LABEL INDICATING POWER SOURCE PANEL AND CIRCUIT BREAKER NUMBER.
3. BASED ON ROUTING OF CONDUITS, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPSIZING BRANCH CIRCUIT WIRING AS REQUIRED TO LIMIT VOLTAGE DROP TO 3%.
4. FURNISH AND INSTALL NON FUSED DISCONNECT SWITCH ON ALL HVAC AND OTHER EQUIPMENT NOT PROVIDED WITH DISCONNECT SWITCH FROM FACTORY.
5. ALL UNDERGROUND CONDUITS IN BUILDING SHALL BE LOCATED BENEATH THE DRAINAGE LAYER, NOT WITHIN THE DRAINAGE LAYER.
6. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL OUTLET BOXES FOR ALL HVAC THERMOSTATS WITH 3/4"C FROM OUTLET BOX TO CEILING CAVITY. SEE MECHANICAL SHEETS FOR LOCATIONS. MOUNTING HEIGHT SHALL MATCH TOGGLE SWITCH MOUNTING HEIGHT.
7. ELECTRICAL WIRING DEVICES LOCATED ADJACENT TO ONE ANOTHER SHALL BE ALIGNED AND MOUNTED AT SAME ELEVATION.

PLAN NOTES:

1. UNIT FURNISHED WITH PREWIRED DISCONNECT SWITCH AND GFI RECEPTACLE.
2. TRANSFORMER, 45KVA, 480V PRI- 120/208V 3Φ SECONDARY, NEMA 1.
3. ELECTRICAL PANEL 'TRH'
4. CONTRACTOR SHALL LABEL ALL PANELS, ETC.., PER SPECIFICATIONS WITH ARC FLASH HAZARD PPE REQUIREMENTS INCLUDING CLOTHING TYPE AND DISTANCE REQUIREMENTS BASED ON ARC FLASH STUDY. PROVIDE LABELING AS REQUIRED. MAINTAIN 4' CLEARANCE, VERIFY DEPTH OF ALL EQUIPMENT PROVIDED, MOUNT DIRECTLY TO WALL.
5. HAND DRYER, REFERENCE ARCHITECTURAL FOR EXACT LOCATION ON WALL. LOCATE OUTLET BOX FOR POWER BEHIND HAND DRYER, COORDINATE WITH HAND DRYER SHOP DRAWINGS.
6. DOMESTIC WATER BOOSTER PUMP CONTROLLER, 480V, 3Φ, 3HP
7. AIR CONDITIONING UNIT ACU-1 SYSTEM MANAGER PANEL.
8. INSTANTANEOUS ELECTRIC WATER HEATER, 277V, 1Φ, 6.0KW. PROVIDE 30A DISCONNECT SWITCH AT UNIT AND BRANCH CIRCUIT BACK TO PANEL TRH.
9. ELECTRIC WATER HEATER 277V, 1Φ, 4KW. PROVIDE 30A DISCONNECT SWITCH
10. EF-1, 1/4HP, 120V. 1Φ. PROVIDE FRACTIONAL HORSEPOWER MANUAL SWITCH AT UNIT. MECHANICAL CONTRACTOR TO FURNISH SPEED CONTROLLER AND THERMOSTAT FOR TRANSFER FAN. ELECTRICAL CONTRACTOR TO INSTALL AND WIRE PER MANUFACTURERS RECOMMENDATIONS.
11. AUTOMATIC FLUSH VALVE. PROVIDE 4" X 4" BOX WITH 120V POWER AND CONNECT TO LOW VOLTAGE TRANSFORMER PROVIDED BY MECHANICAL CONTRACTOR.
12. AUTOMATIC FAUCET AND SOAP DISPENSER. EACH DEVICE HAS CORD WITH TRANSFORMER FOR PLUG IN. PROVIDE RECEPTACLE IN CHASE/MECH ROOM FOR EACH DEVICE. PROVIDE SLEEVE THRU WALL FOR CORDS THRU WALL. RECEPTACLE HEIGHT SHALL BE MINUMIM 16" A.F.F. DETERMINED BY LENGTH OF DEVICE CORDS.
13. CONDUIT FOR LIGHT FIXTURES SHALL BE CONCEALED IN INSULATION ABOVE THE WOOD DECK.
14. SOAP DISPENSER TANK . DEVICE HAS CORD WITH TRANSFORMER FOR PLUG IN. PROVIDE RECEPTACLE IN CHASE/MECH ROOM FOR DEVICE.
15. PROVIDE GFI RECEPTACLE WITH AUDIBLE ALARM.
16. NO EXPOSED CONDUIT.
17. OUTDOOR UNIT FEEDS POWER TO INDOOR UNIT. PROVIDE ALL WIRING BETWEEN INDOOR AND OUTDOOR UNIT AS REQUIRED, PER MANUFACTURERS REQUIREMENTS.
18. TR-1, 77W, 120V, 1Φ. PROVIDE FRACTIONAL HORSEPOWER MANUAL SWITCH AT UNIT. MECHANICAL CONTRACTOR TO FURNISH SPEED CONTROLLER AND THERMOSTAT FOR TRANSFER FAN. ELECTRICAL CONTRACTOR TO INSTALL AND WIRE PER MANUFACTURERS RECOMMENDATIONS.
19. ELECTRIC WATER HEATER 208V, 1Φ, 4KW. PROVIDE 30A DISCONNECT SWITCH
20. PANEL TRV FED FROM PANEL TRL
21. LIGHT ON 24/7.
22. VENDING MACHINE WITH CELLULAR DATA

ONE LINE DIAGRAM NOTES:

1. PROVIDE LABEL ON ALL EQUIPMENT INDICATING:
   PANEL NAME
   PANEL VOLTAGE
   PANEL FED FROM
2. PROVIDE ALL EQUIPMENT WITH ARC FLASH LABELS



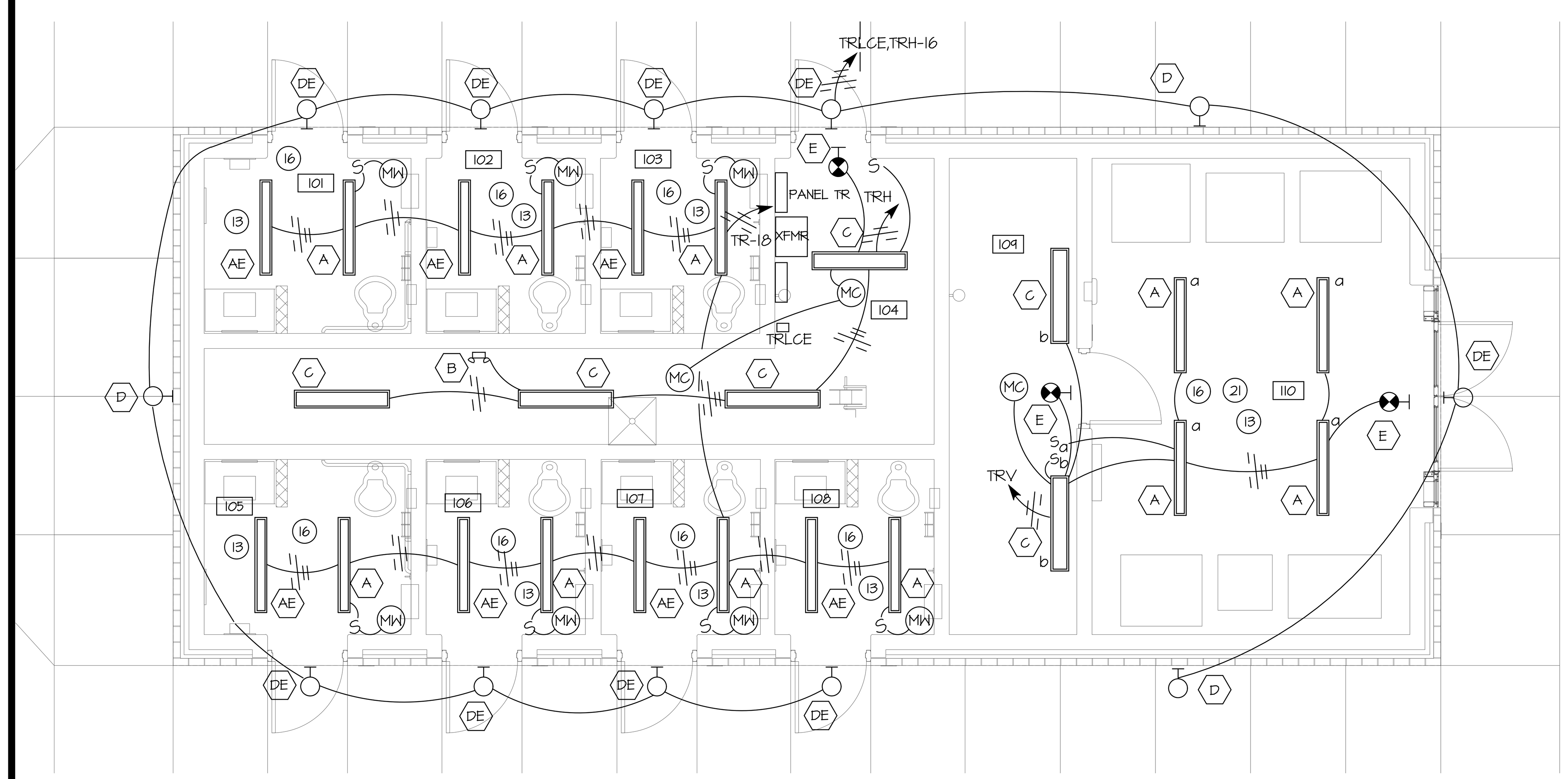
ONE LINE DIAGRAM

SCALE: NONE

ELECTRICAL LEGEND

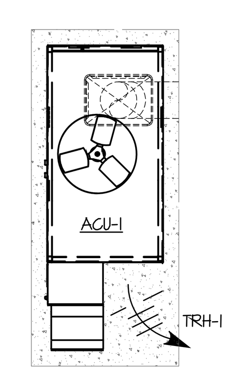
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
○	CEILING OUTLET AND LED, QUARTZ, OR H.I.D. LIGHTING FIXTURE AS SCHEDULED.	MW	WALL MOUNTED SWITCH/VACANCY SWITCH, DUAL TECHNOLOGY MOTION SENSOR, SENSORSWITCH MODEL NO. WVR-PDT-16-WH/ WVBR. MOUNT SWITCH ON WALL AT 10'4" A.F.F. UNLESS INDICATED OTHERWISE. AIM TOWARDS FLOOR TO COVER ENTRY AND ALL AREAS OF THE ROOM.
	WALL OUTLET AND COMPACT FLUORESCENT, QUARTZ, OR H.I.D. LIGHTING FIXTURE AS SCHEDULED.	MC	CEILING MOUNTED DUAL TECHNOLOGY STANDARD RANGE MOTION SENSOR, SENSORSWITCH MODEL CMR-PDT-9. CONNECT AHEAD OF SWITCHING TO ENABLE SWITCHING. ADJUST SENSOR TO PROVIDE MAXIMUM MOTION SENSING IN ROOM.
	CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE AS SCHEDULED.	GFI, WP C,L	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE. GFI INDICATES RECEPTACLE SERVED BY GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER OR GROUND FAULT CURRENT INTERRUPTER RECEPTACLE. 'WP' INDICATES WEATHERPROOF COVER. 'C' INDICATES RECEPTACLE FOR COMPUTER EQUIPMENT, PROVIDE ORANGE COLORED ISOLATED GROUND RECEPTACLE, ROUTE GROUND CONDUCTOR FROM RECEPTACLE DIRECTLY TO SERVICE GROUND. 'L' INDICATES LOCKABLE COVER.
	EMERGENCY BATTERY PACK.	GFI	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT HORIZONTALLY 6 INCHES ABOVE COUNTER OR ABOVE COUNTER BACKSPLASH TO BOTTOM, UNLESS NOTED OTHERWISE. GFI INDICATES RECEPTACLE SERVED BY GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER.
	WALL MOUNTED SINGLE FACED EMERGENCY EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. MOUNT AT 7'-4" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.		WALL OUTLET WITH 20A, 125V DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.
A	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE.	J	CEILING OR FLOOR MOUNTED JUNCTION BOX.
S	SINGLE POLE 20A SWITCH. MOUNT 40" A.F.F. TO BOTTOM, UNLESS OTHERWISE NOTED.	P	MANUAL MOTOR CONTROLLER TO SUIT MOTOR. "P" INDICATES PILOT LIGHT. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
S_3	THREE WAY 20A SWITCH: 4 = 4 WAY, K = KEY, P = PILOT, M = MOMENTARY CONTACT. MOUNT 40" A.F.F. TO BOTTOM, UNLESS OTHERWISE NOTED.		MOTOR.
S_D	SINGLE POLE 20A SWITCH/DIMMER. MOUNT 40" A.F.F. TO BOTTOM, UNLESS OTHERWISE NOTED. DIMMER COMPATIBLE WITH LIGHT FIXTURE.		CIRCUIT BREAKER
a,b,c	LOWER CASE LETTERS AT OUTLETS INDICATE SWITCHING ARRANGEMENT.	N	NON-FUSED DISCONNECT SWITCH. MOUNT AT 4'-6" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
LC	LIGHTING CONTACTOR. MOUNT AT 4'-0" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.		FUSIBLE DISCONNECT SWITCH. MOUNT AT 4'-6" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
GROUND, PHASE, NEUTRAL	CIRCUIT CONCEALED IN CEILING, FLOOR OR WALL. CROSSBARS INDICATE NUMBER OF CONDUCTORS REQUIRED. CONDUIT NOT SIZED IS 1/2" INCH. CONDUCTORS NOT SIZED ARE NO. 12. MINIMUM CIRCUIT: ONE HOT, ONE NEUTRAL, ONE GROUND CONDUCTOR.		
A-1, 2, 3	HOMERUN TO PANELBOARD INDICATED. NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS. NUMBERS INDICATES CIRCUIT NUMBER. PREFIX INDICATES PANEL DESIGNATION.		
CR	OUTLET BOX WITH 3/4"C FROM BOX TO CEILING CAVITY FOR FUTURE CARD ACCESS CONTROLLER, MOUNT 44" A.F.F. TO TOP,		
DS	3/4"C FROM DOOR FRAME TO CEILING CAVITY FOR FUTURE DOOR ACCESS SYSTEM HARDWARE.		

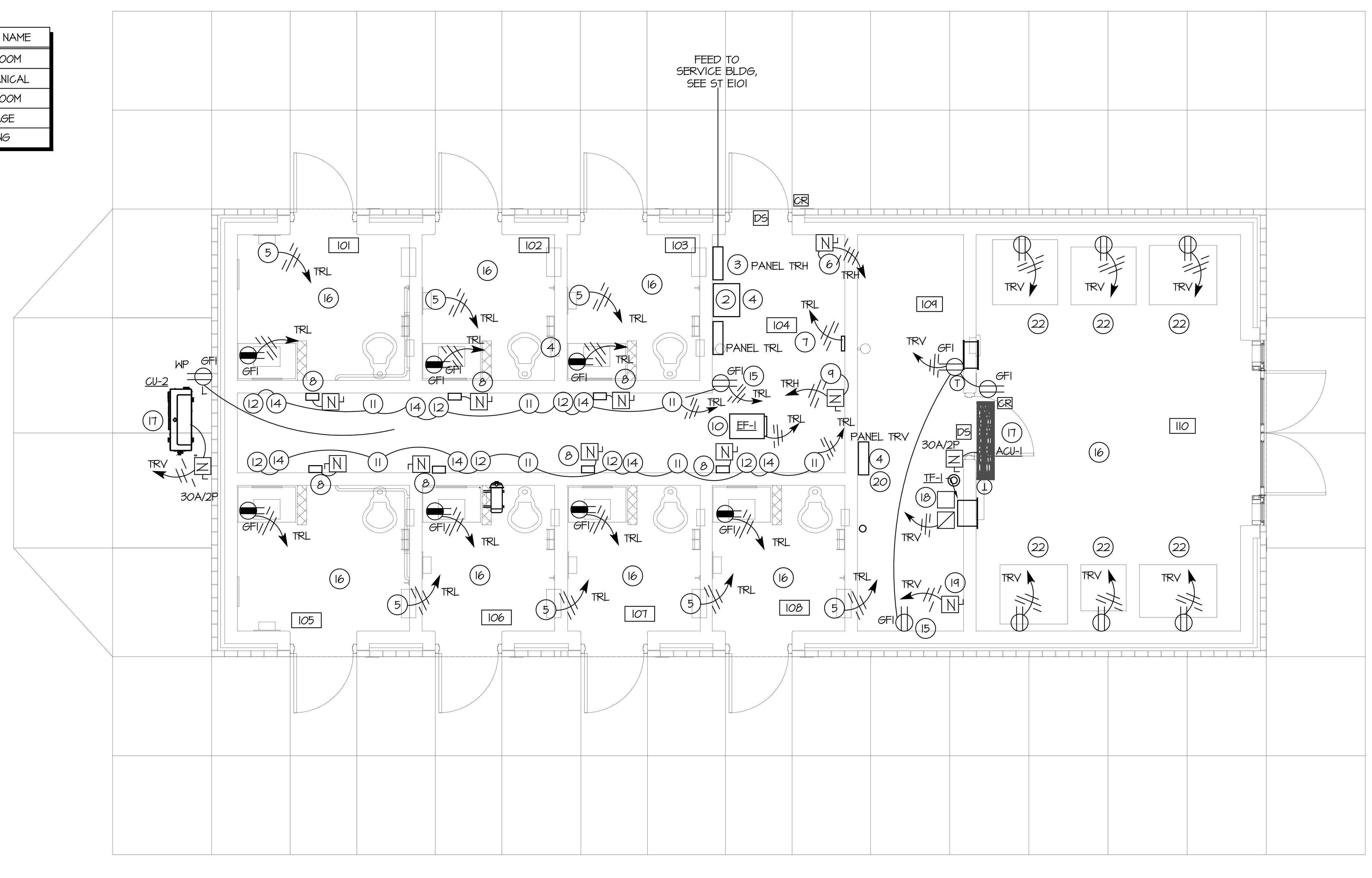
ROOM NO.	ROOM NAME
101-103	RESTROOM
104	MECHANICAL
105-108	RESTROOM
109	STORAGE
110	VENDING



TRUCKERS RESTROOM ELECTRICAL LIGHTING PLAN (TYPICAL OF TWO)

SCALE: 1/4" = 1'-0"





TRUCKERS RESTROOM ELECTRICAL POWER AND SYSTEMS PLAN (TYPICAL OF TWO)

SCALE: 1/4" = 1'-0"

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TAYLORSVILLE SB TRUCK PARKING
TAYLORSVILLE, INDIANA

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