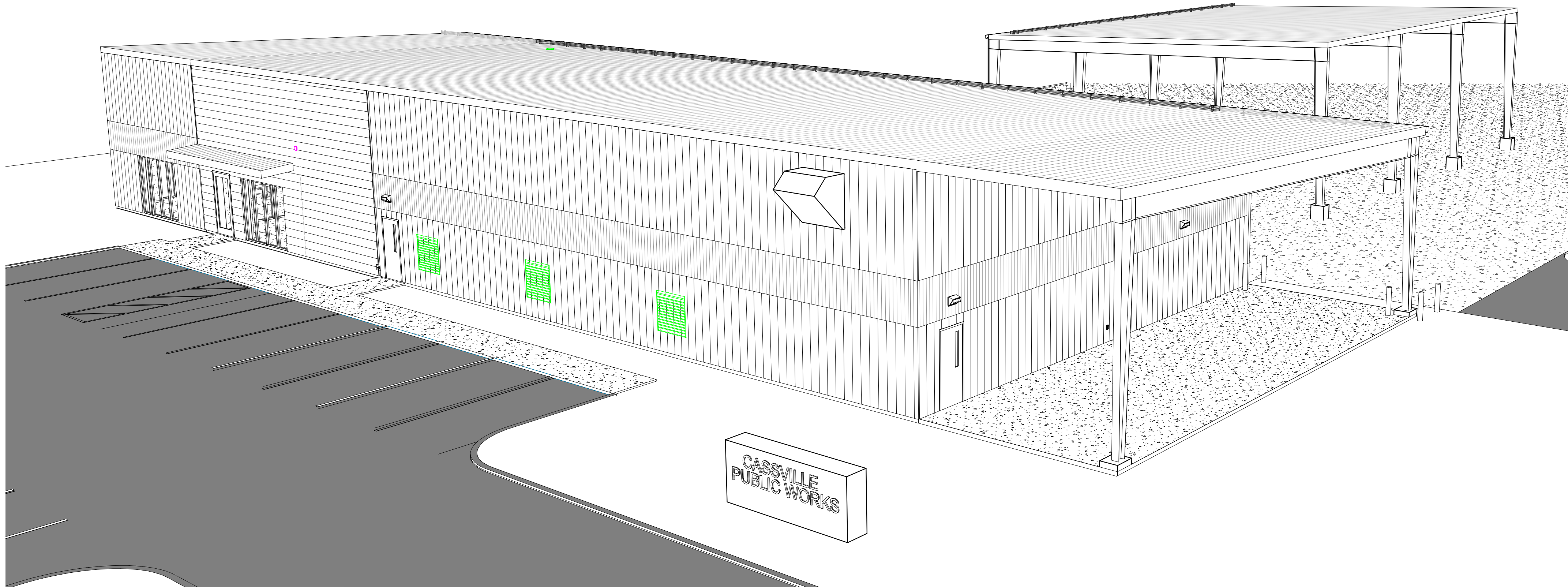


PUBLIC WORKS FACILITY

CITY OF CASSVILLE

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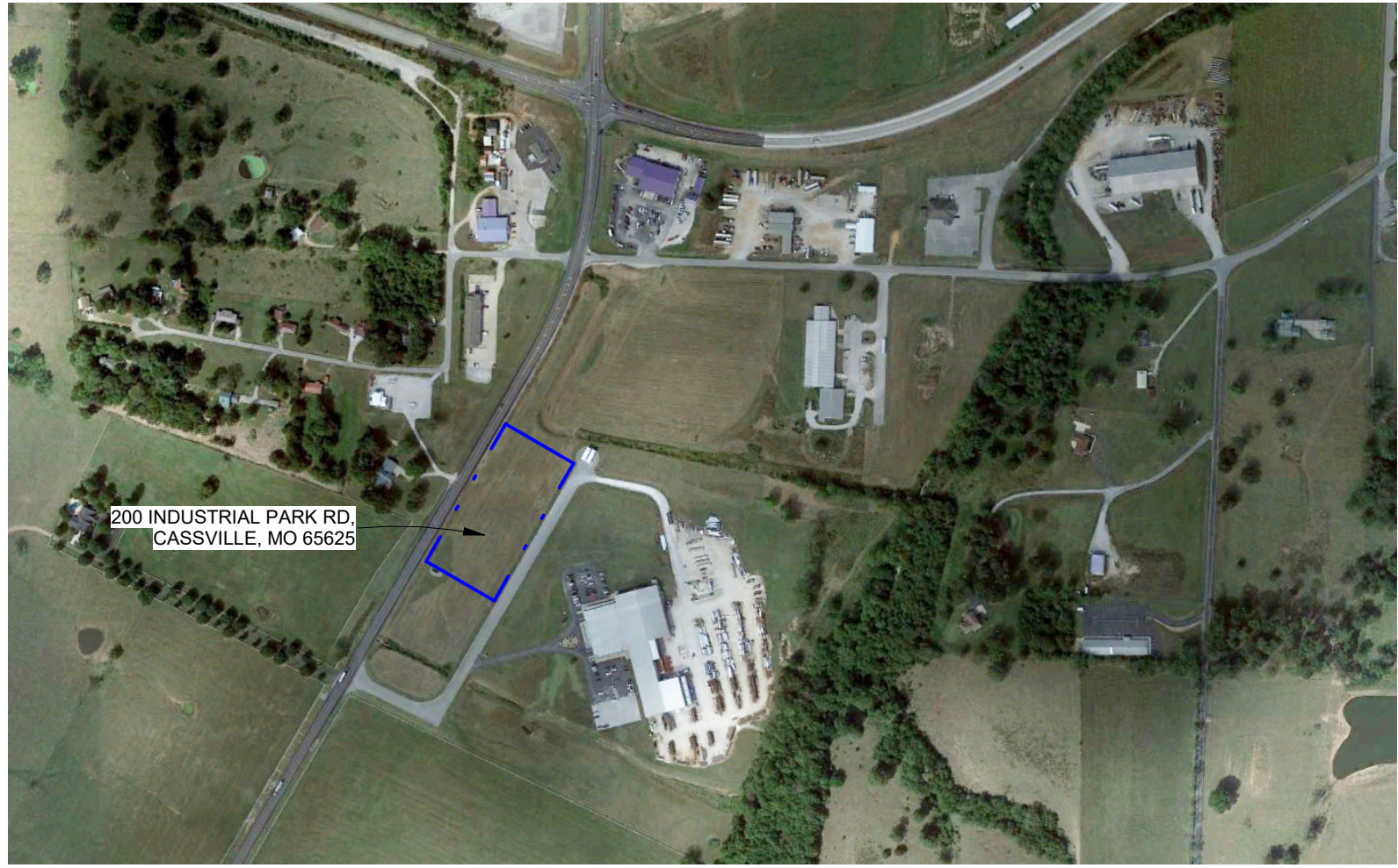
SHEET INDEX:

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STRUCTURAL	S0-0 GENERAL NOTES S0-1 GENERAL NOTES & DETAILS - LGMF S1-1 FOUNDATION PLANS S1-2 FOUNDATION PLAN S2-1 FOUNDATION DETAILS S2-2 FOUNDATION DETAILS S3-1 MEZZANINE FRAMING PLAN & DETAILS
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GENERAL NOTES:

- ALL WORK BY ALL TRADES SHALL CONFORM TO AND BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, STANDARDS OR RESTRICTIONS WHETHER INDICATED ON THE DRAWINGS OR NOT. THE MORE STRINGENT TO GOVERN DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
- PARAGON ARCHITECTURE IS NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT SUPERVISION OF WORK IN PROGRESS. IT IS NEITHER EXPRESSED NOR IMPLIED THAT THE CONTRACTOR CAN CONSTRUCT THIS PROJECT WITHOUT THE ARCHITECT'S FIELD OBSERVATIONS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION THE ARCHITECT DOES NOT DELEGATE THEIR AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF THESE PLANS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS.
- THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID.
- ALL EXISTING CONDITIONS INDICATED ARE BASED UPON INFORMATION PROVIDED BY OTHERS. NOTIFY THE ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE NEW CONNECTIONS ACCORDING TO LOCAL UTILITY COMPANY REQUIREMENTS.
- EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER LINES, GAS LINES, SEWER LINES, TELEPHONE LINES, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE PERFORMED HEREUNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ARCHITECT OR ENGINEERS IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND INSTALLATIONS. THIS INCLUDES SERVICE CONNECTIONS, IN ADVANCE OF EXCAVATING OR TRENCHING, BY CONTACTING THE OWNERS THEREOF AND PROSPECTING. THE CONTRACTOR SHALL USE THEIR OWN INFORMATION AND NOT RELY UPON ANY INFORMATION SHOWN ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS. ANY DELAY, ADDITIONAL WORK, OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO EXISTING UNDERGROUND INSTALLATIONS SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT, OR DAMAGE.
- SEE INSTRUCTIONS TO BIDDERS INCLUDED IN PROJECT MANUAL FOR ALL KNOWN REQUIREMENTS FOR PERMITS, GOVERNMENTAL FEES, LICENSES AND INSPECTIONS.
- DRAWINGS HEREIN ARE NOT ORGANIZED BY TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISCELLANEOUS ITEMS, MATERIALS, AND WORK REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR OVERALL SCOPE OF WORK.
- THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, CONSTRUCTION EQUIPMENT, MACHINERY, TOOLS, UTILITIES, TRANSPORTATION FOR THE ABOVE MENTIONED, AND ANY OTHER FACILITIES OR SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS WITH THE INFORMATION FURNISHED BY THE OWNER AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED IN WRITING.
- SHOULD A DISCREPANCY BETWEEN CONTRACT DOCUMENTS AND SPECIFICATIONS OCCUR THE CONTRACTOR SHOULD IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH WORK.
- IF A MATERIAL CALL-OUT IS ABSENT FROM ANY DRAWING, DETAIL, OR SPECIFICATION IN THE DOCUMENTS THE CONTRACTOR SHALL REQUEST INFORMATION AND/OR CLARIFICATION FROM THE ARCHITECT IN WRITING PRIOR TO SUBMITTING A BID. FAILURE TO REQUEST INFORMATION AND/OR CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING THE PROJECT WARRANTS THAT THE CONTRACTOR HAS THOROUGHLY REVIEWED THE DRAWINGS AND THEIR BID INCLUDES ADEQUATE FUNDS TO COMPLETE THE PROJECT AS REASONABLY INFERRED FROM THE DOCUMENTS.
- WHENEVER CONFLICTING INFORMATION OR DIRECTION OCCURS IN THE SPECIFICATIONS OR THE DRAWINGS THE COST FOR THE MORE EXPENSIVE OPTION INCLUDING, BUT NOT LIMITED TO, DETAILS, INSTALLATIONS, PROCEDURES, CALL-OUTS, MATERIALS, SCHEDULES, OR SPECIFICATION SHALL BE USED IN THE CONTRACTOR'S BID PRICE FOR THE PROJECT. IF THROUGH CLARIFICATION THE LESSER COST OPTION APPLIES THEN THE CONTRACTOR SHALL ISSUE A COST CREDIT TO THE OWNER FOR THE ACTUAL COST DIFFERENCE PLUS CONTRACTOR MARKUP INCLUDING OVERHEAD AND PROFIT.
- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE. IF A CONDITION EXISTS IN THE DRAWINGS WHERE THE APPLICABLE CONSTRUCTION DETAIL IS UNCLEAR THE CONTRACTOR SHALL REQUEST INFORMATION AND/OR CLARIFICATION FROM THE ARCHITECT IN WRITING PRIOR TO SUBMITTING THE BID FOR CONSTRUCTION OF THE PROJECT.
- APPLY AND/OR INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFICATIONS, MANUFACTURER'S PUBLISHED INSTRUCTIONS, OR, IF NO INSTRUCTIONS EXIST, INSTALL PER STANDARD INDUSTRY PRACTICE.
- GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION UNLESS OTHERWISE NOTED.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AS IDENTIFIED IN AIA DOCUMENT A201 SHALL BE BINDING AS PART OF THESE CONSTRUCTION DOCUMENTS.
- THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE, INCLUDING THE DRAWINGS AND SPECIFICATIONS, AND SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHTS. SUBMISSION OR DISTRIBUTION OF INSTRUMENTS OF SERVICE TO MEET OFFICIAL, REGULATORY REQUIREMENTS OR FOR SIMILAR PURPOSES IN CONNECTION WITH THE PROJECT IS NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF THE RESERVED RIGHTS OF THE ARCHITECT AND THE ARCHITECTS CONSULTANTS.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS WHICH MAY AFFECT INTENT OF DESIGN OR PROPER INCORPORATION OF ELEMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PROMPTLY IN WRITING AND RESOLUTION OBTAINED BEFORE PROCEEDING. NOTIFY ARCHITECT IMMEDIATELY OF ANY DIMENSIONAL VARIATIONS ON BETWEEN THE DRAWINGS AND BUILT CONDITIONS.

PROJECT LOCATION MAP:



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PROJECT DESCRIPTION:
PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

COVER SHEET

SHEET NUMBER:

G0-0

3

CODE PLAN - ADMIN EXPANSION (BID ALT)

SCALE 1/8" = 1'-0"

2

CODE PLAN
MEZZANINE

SCALE 1/8" = 1'-0"

1

CODE PLAN FIRST LEVEL

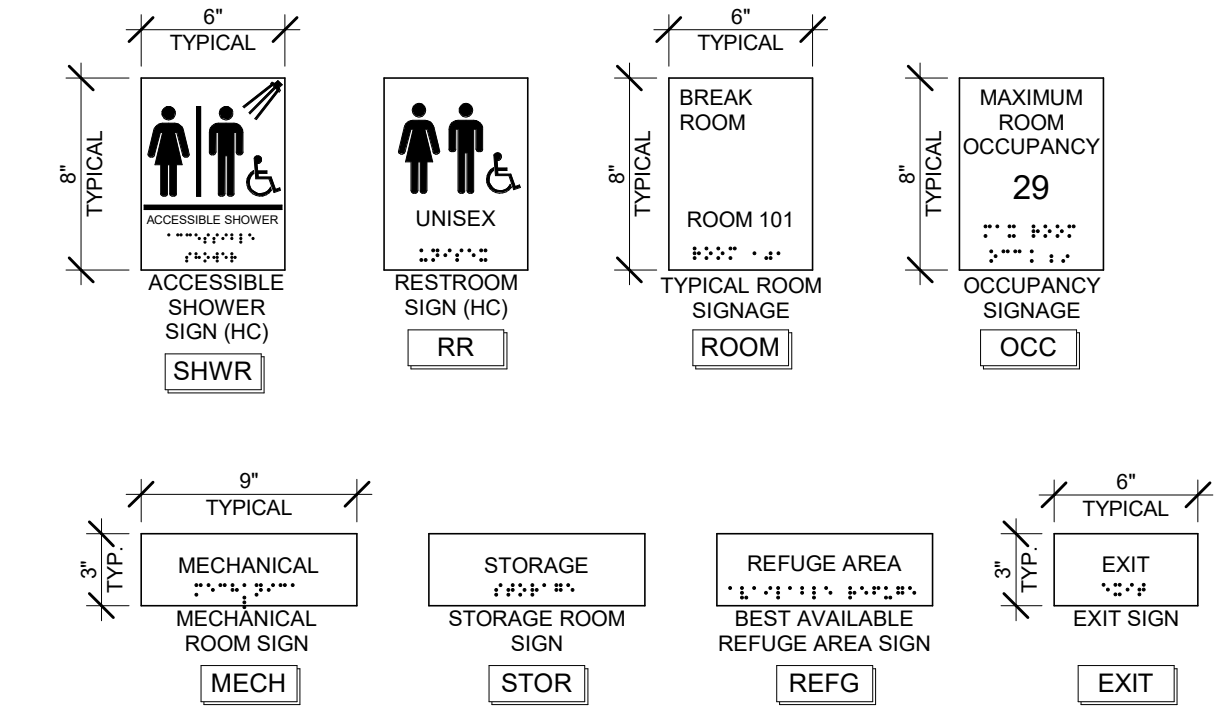
SCALE 1/8" = 1'-0"

PANEL SIGNAGE LEGEND

1. PROVIDE THE FOLLOWING PANEL SIGNS AS INDICATED ON THE CODE PLANS.
2. INSTALL SIGNS (HEIGHTS AND LOCATIONS) AS DIRECTED BY OWNER'S REPRESENTATIVE. SIGNS TO BE PLACED 48" ABOVE FINISH FLOOR AT MINIMUM AND PLACED 60" ABOVE FINISH FLOOR AT MAXIMUM.
3. PROVIDE TACTILE EXIT SIGNAGE AT EACH EXIT DOOR COMPLIANT WITH THE APPLICABLE IBC VERSION, ANSI 117.1, AND AS IDENTIFIED UNDER OTHER APPLICABLE CODES.
4. COLOR OF PANEL SIGNAGE TO BE SELECTED BY ARCHITECT PRIOR TO FABRICATION FROM MANUFACTURER STANDARD LINE OF COLORS.
5. SIGNS SHALL BE ONE PIECE CONSTRUCTION WITH THE EXCEPTION OF APPLIED VINYL LETTERS AND CHARACTERS.
6. ALL SIGNAGE TO BE ADA AND ANSI COMPLIANT.
7. ALL SIGNAGE TO BE 1/8" THICK COLORED ACRYLIC WITH COLORED MATTE FINISH.
8. ALL SIGNAGE EDGES TO BE POLISHED.
9. CHARACTERS TO BE CUT VINYL APPLIED. COLOR OF CHARACTERS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD LINE OF COLORS.
10. LETTERS TO BE 3/4" CUT VINYL APPLIED. LETTERS TO BE A FONT AND COLOR SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD LINE OF COLORS.
11. ALL ROOM DESIGNATIONS ARE TO BE PROVIDED BY OWNER.
12. PROVIDE RAISED BRAILLE CHARACTERS ON ALL PANEL SIGNS.
13. SEE SPECIFICATIONS FOR MORE INFORMATION.
14. SEE FINISH FLOOR PLANS FOR ANY ADDITIONAL NON-CODE RELATED SIGNAGE.

PANEL SIGNAGE TAGS

PROVIDE ONE (1) SIGN PER -- COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSI AND ADA GUIDELINES. SIGN FINISHES TO BE SELECTED BY A.O.R.



OCCUPANT LOAD SCHEDULE

ROOM INFORMATION			USER GROUP	IBC CHAPTER 10 OCCUPANT LOAD FACTOR	OCCUPANT COUNT
NO.	NAME	AREA			
100	OPEN OFFICE	588 SF	B	100 SF	6
100A	OPEN OFFICE (BID ALT.)	590 SF	B	100 SF	6
101	CORRIDOR	373 SF	UNO.	0 SF	6
102	OFFICE	182 SF	B	100 SF	2
103	OFFICE	181 SF	B	100 SF	2
104	RESTROOM	57 SF	UNO.	0 SF	2
105	SHOWER ROOM	160 SF	UNO.	0 SF	1
106	BREAK ROOM	181 SF	B	200 SF	1
107	MECHANICAL	78 SF	S-2	300 SF	1
108	RECORDS	160 SF	S-1	300 SF	1
109	COMMUNITY ROOM (BID ALT.)	711 SF	A-3	15 SF	48
110	GARAGE	4,501 SF	S-1	300 SF	16
200	MEZZANINE (BID ALT)	381 SF	S-1	300 SF	2
		8,144 SF			85

NOTE: OCCUPANT LOAD SCHEDULE COUNTS REFLECT BID ALTERNATE FOR ADDITIONAL BAY

KEYNOTE LEGEND

- 10.441 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 10 LBS ABC FIRE EXTINGUISHER INSIDE. MOUNT FIRE EXTINGUISHER CABINET WITH HANDLE NOT MORE THAN 48 INCHES ABOVE FINISH FLOOR LEVEL.
- 10.442 UNDERCOUNTER, 5 LBS ABC FIRE EXTINGUISHER.

BID ALTERNATE LEGEND

BID ALTERNATE - SEE SPECIFICATIONS FOR MORE INFORMATION.

APPLICABLE CODES & STANDARDS

2006 ICC INTERNATIONAL CODE COUNCIL, ALL REFERENCE STANDARDS
ICC INTERNATIONAL BUILDING CODE
ICC INTERNATIONAL PLUMBING CODE
ICC INTERNATIONAL MECHANICAL CODE
ICC INTERNATIONAL FIRE CODE
NATIONAL ELECTRIC CODE (NEC) 2017
2010 ADAAG AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
2009 ANSI A117.1 GUIDELINES FOR ACCESSIBLE & USABLE BUILDING & FACILITIES

GENERAL PROJECT INFORMATION

USER GROUP: AREA A: BUSINESS (B) WITH A-3 ACCESSORY
AREA B: MODERATE-HAZARD STORAGE (S-1)
CONSTRUCTION TYPE: II-B
AUTOMATIC SPRINKLER SYSTEM: NONE
GROSS BUILDING AREA: 8,404 SF
AREA A: 2,288 SF
AREA B: 4,867 SF
MEZZANINE: 382 SF
BID ALT. AREA: 1,447 SF

SPECIAL REQUIREMENTS (IBC CHAPTER 4)

SPECIAL REQUIREMENTS: MOTOR-VEHICLE RELATED OCCUPANCIES
AUTOMATIC SPRINKLER SYSTEM IS NOT REQUIRED SINCE GARAGE DOES NOT EXCEED 12,000 SF AT A SINGLE STORY.

GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)

MAXIMUM 3 STORIES ABOVE GRADE PLANE ALLOWED, 1 STORY PROVIDED.
MAXIMUM 17,500 SQUARE FEET ALLOWED, REFER TO BUILDING SQUARE FOOTAGE LISTED ABOVE.
INCIDENTAL USE AREAS: NONE

FIRE RESISTANCE RATINGS (IBC CHAPTER 6)

CONSTRUCTION TYPE: II-B

PRIMARY STRUCTURAL FRAME: 0 HOURS
BEARING WALLS (EXTERIOR AND INTERIOR): 0 HOURS
NON-BEARING WALLS AND PARTITIONS EXTERIOR: 0 HOURS
NON-BEARING WALLS AND PARTITIONS INTERIOR: 0 HOURS
FLOOR CONSTRUCTION: 0 HOURS
ROOF CONSTRUCTION: 0 HOURS

ALL COMPONENTS SHALL BE LESS THAN THE FIRE RESISTANCE RATINGS REQUIRED BY OTHER SECTIONS OF CODE

FIRE AND SMOKE PROTECTION FEATURES (IBC CHAPTER 7)

EXTERIOR WALLS: 0 HOURS - NONE REQUIRED
FIRE WALLS: 0 HOURS - NONE REQUIRED
FIRE BARRIERS: 0 HOURS - NONE REQUIRED
FIRE PARTITIONS: 0 HOURS - NONE REQUIRED
SMOKE BARRIERS: 0 HOURS - NONE REQUIRED
SMOKE PARTITIONS: 0 HOURS - NONE REQUIRED
HORIZONTAL ASSEMBLIES: 0 HOURS - NONE REQUIRED
SHAFT ENCLOSURES: 0 HOURS - NONE REQUIRED
OPENING PROTECTIVES: 0 HOURS - NONE REQUIRED

INTERIOR FINISHES (IBC CHAPTER 8)

INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS: CLASS A
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS B
ROOMS AND ENCLOSED SPACES: CLASS C

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

AUTOMATIC SPRINKLER SYSTEM

USE GROUP B
NOT REQUIRED

PORTABLE FIRE EXTINGUISHERS

SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 10 AND INTERNATIONAL FIRE CODE. SEE PLAN FOR LOCATIONS AND TYPE.

FIRE ALARM AND DETECTION SYSTEM

MANUAL FIRE ALARM SYSTEM - NOT REQUIRED BUT PROVIDED

MEANS OF EGRESS INFORMATION (IBC CHAPTER 10)

OCCUPANT LOAD
CALCULATED OCCUPANT LOADING
ACCESSORY STORAGE AND MEP ROOMS 300 SQUARE FOOT PER OCCUPANT
BUSINESS AREAS 100 SQUARE FOOT PER OCCUPANT
ASSEMBLY (CONCENTRATED AREAS) 15 SQUARE FOOT PER OCCUPANT

REFER TO OCCUPANT LOAD SCHEDULE FOR TOTAL CALCULATED OCCUPANT LOAD.

MEANS OF EGRESS SIZING

STAIRWAYS: 0.3 INCHES
CORRIDORS AND EGRESS COMPONENTS: 0.2 INCHES

NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
B OCCUPANCY SPACES WITH MORE THAN 49 OCCUPANTS 2 EXITS REQUIRED
COMMON PATH OF TRAVEL: 75 FT

NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

STORIES WITH 1-500 OCCUPANTS ARE REQUIRED TO INCLUDE 1 EGRESS EXIT.
REFER TO OCCUPANT LOAD SCHEDULE FOR TOTAL BUILDING OCCUPANCY LOAD. REFER TO CODE PLANS FOR OCCUPANT LOAD PER SPACE AND LEVEL.

EXIT AND EXIT ACCESS DOORWAY CONFIGURATION

EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/2 OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.

EXIT ACCESS TRAVEL DISTANCE

SHALL NOT EXCEED 200 FT IN PROVIDED OCCUPANCY GROUPS.

CORRIDORS

REQUIRED CAPACITY OF CORRIDORS SHALL NOT BE LESS THAN 44".
DEAD END CORRIDORS SHALL BE LIMITED TO 20 FT IN LENGTH.

PLUMBING SYSTEMS (IBC CHAPTER 29)

WATER CLOSETS REQUIRED: 3 REQUIRED
2 PROVIDED + 1 URINAL
LAVATORIES REQUIRED: 2 REQUIRED
3 PROVIDED
DRINKING FOUNTAINS REQUIRED: 1 REQUIRED
2 PROVIDED (1 - HIGH /LOW UNIT)
SERVICE SINKS REQUIRED: 1 REQUIRED,
1 PROVIDED

DEFERRED SUBMITTAL LIST

THE FOLLOWING LIST OF SUBMITTALS ARE SUBMITTALS THAT THE DESIGN TEAM RECOGNIZES REQUIRE SUBMISSION TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW THAT ARE NOT AVAILABLE BEFORE CONTRACTOR INVOLVEMENT AND/OR CREATION. THE FOLLOWING WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION DURING CONSTRUCTION FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION OF THE ASSOCIATED BUILDING ELEMENTS.

- PRE-ENGINEERED METAL BUILDING

CODE PLAN LEGEND

BEST AVAILABLE REFUGE AREA



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-201000418

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CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

CODE PLAN

SHEET NUMBER:

G0-1



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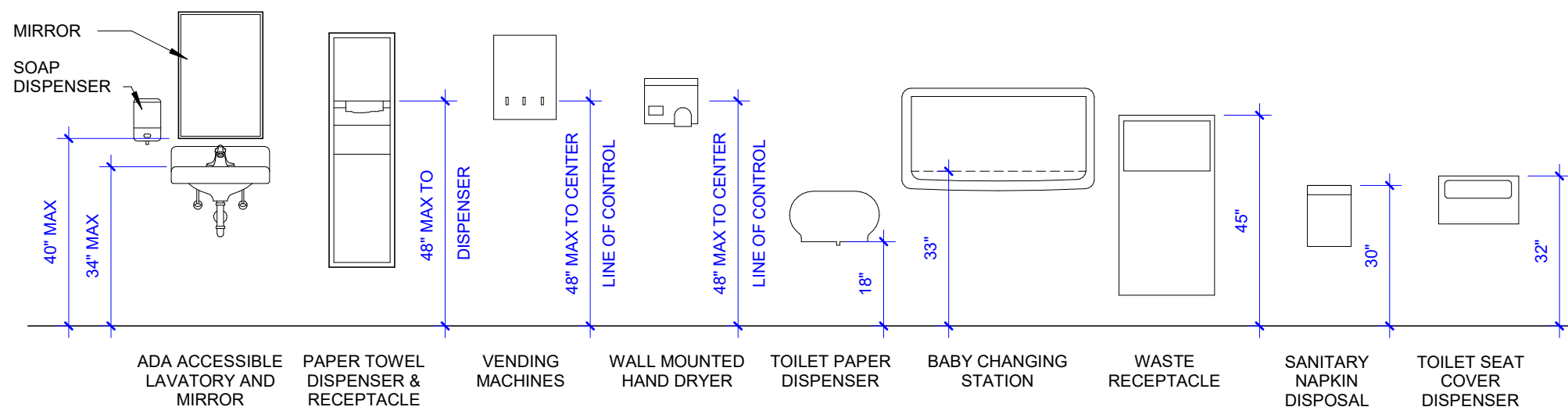
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**ACCESSIBILITY
STANDARDS**

SHEET NUMBER:

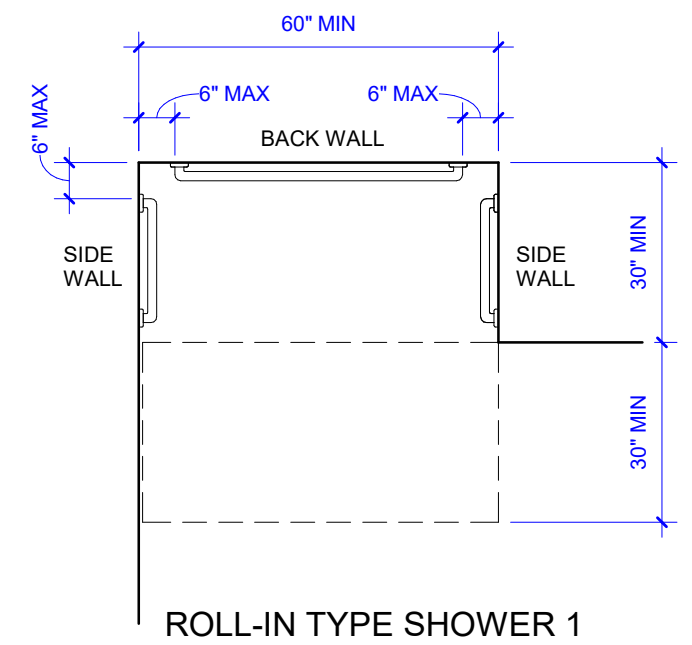
G0-2



9 ACCESSIBLE RESTROOM ACCESSORIES

SCALE 3/8" = 1'-0"

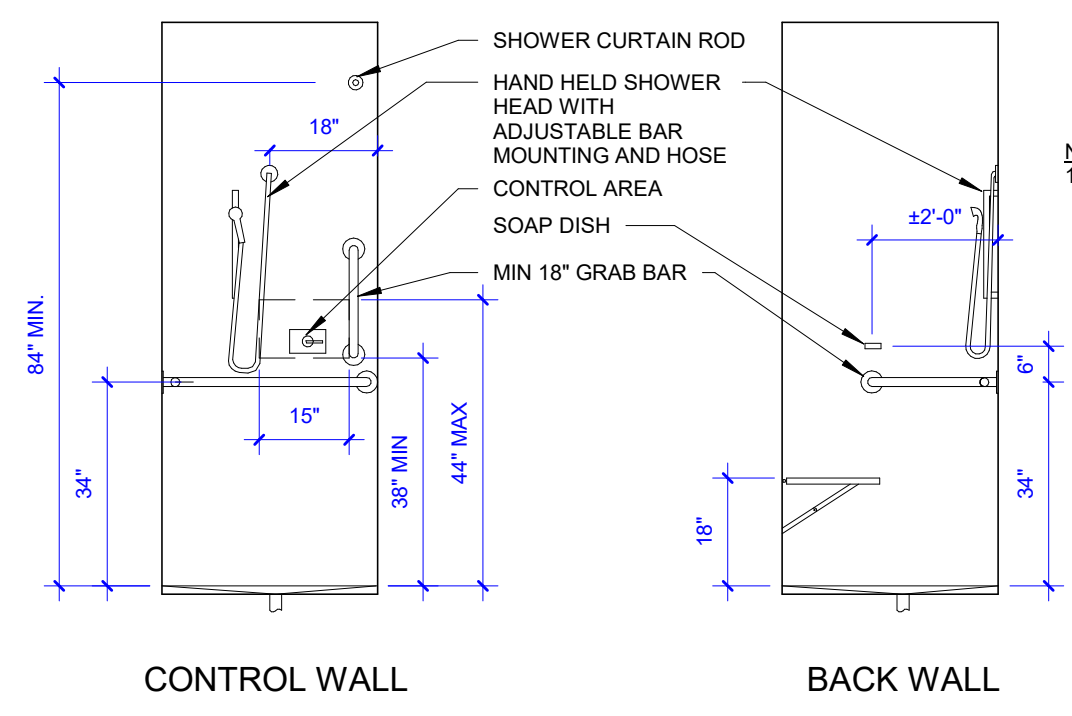
NOTE:
1. VERTICAL GRAB BAR 18" MIN IN LENGTH MOUNTED 3'-6" ABOVE HORIZONTAL GRAB BAR.
2. HORIZONTAL GRAB BAR MOUNTED 2'-10" ABOVE FINISH FLOOR. SEE ACCESSIBLE SHOWER DETAIL FOR MORE INFORMATION.



6 TYPICAL ACCESSIBLE SHOWER LAYOUT

SCALE 3/8" = 1'-0"

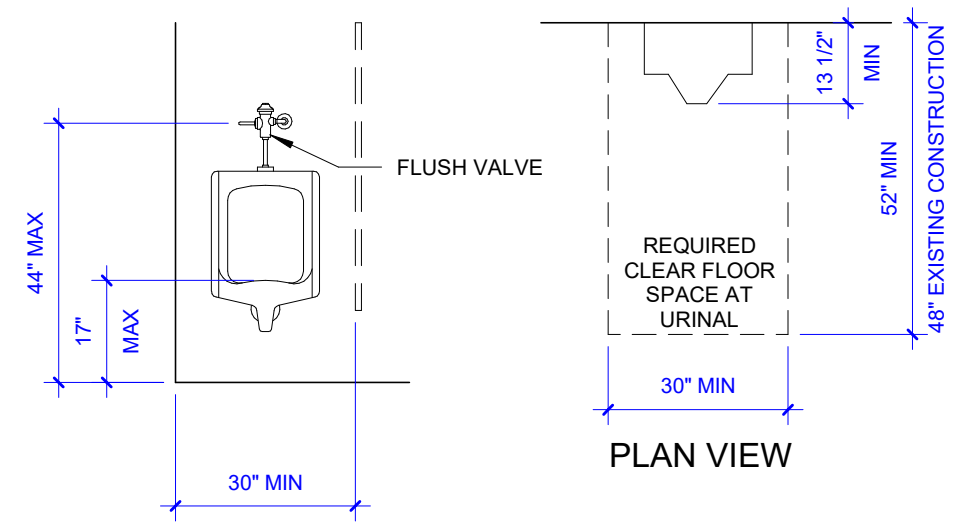
TRANSFER TYPE SHOWER



NOTE:
1. SLOPE SHOWER BASIN 1/8" PER FOOT MINIMUM TOWARDS DRAIN UNLESS NOTED OTHERWISE

3 ACCESSIBLE SHOWER DETAIL

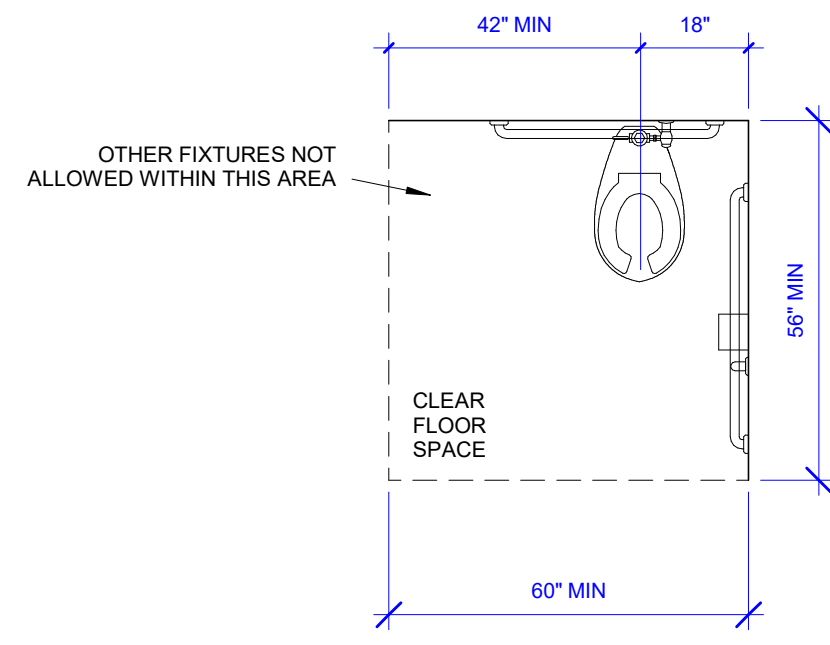
SCALE 3/8" = 1'-0"



NOTE:
1. A MIN OF ONE URINAL PER EACH MENS ACCESSIBLE RESTROOM SHALL BE MOUNTED AT 17" HEIGHT IF MORE THAN ONE URINAL IS PROVIDED.
2. SEE PLANS FOR ADDITION INFORMATION ON URINAL SCREEN LOCATIONS

10 ACCESSIBLE URINAL

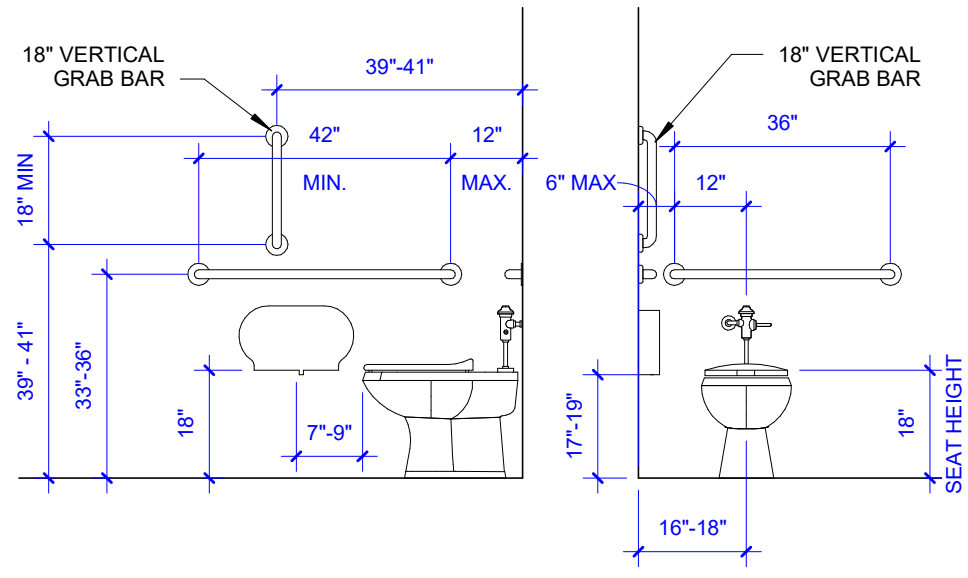
SCALE 3/8" = 1'-0"



SEE ACCESSIBLE WATER CLOSET DETAIL FOR FURTHER INFORMATION.

8 CLEARANCE FOR WATER CLOSET

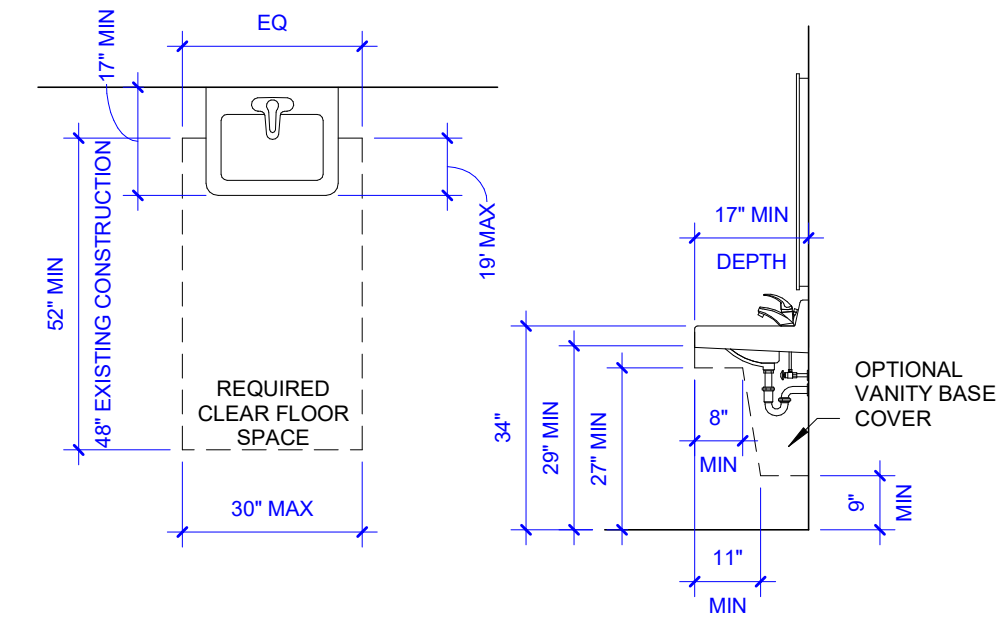
SCALE 3/8" = 1'-0"



NOTES:
1. SEE FOR GRAB BAR DETAIL FOR MORE INFORMATION ON GRAB BARS.
2. WHEN VERTICAL WALL SURFACE CHANGES IN PLANE BEHIND GRAB BAR, PROVIDE TRIM BEHIND BAR MOUNTING SO THAT MOUNTING SURFACE IS WITHIN SAME PLANE AS THE FARTHEST PROTRUDING WALL FINISH MATERIAL.
3. MAINTAIN 1 1/2" CLEAR BELOW OR 12" CLEAR ABOVE THE GRAB BAR FOR TISSUE DISPENSER INSTALLATION.
4. FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET CLEARANCE.
5. DIMENSIONS/OFFSETS ARE TYPICAL FOR WALL MOUNTED, FLOOR MOUNTED, OR TANK TYPE WATER CLOSETS.
6. TOILET FLUSH CONTROL HEIGHT SHALL BE 44" MAX FOR ADULTS.

5 ACCESSIBLE WATER CLOSET

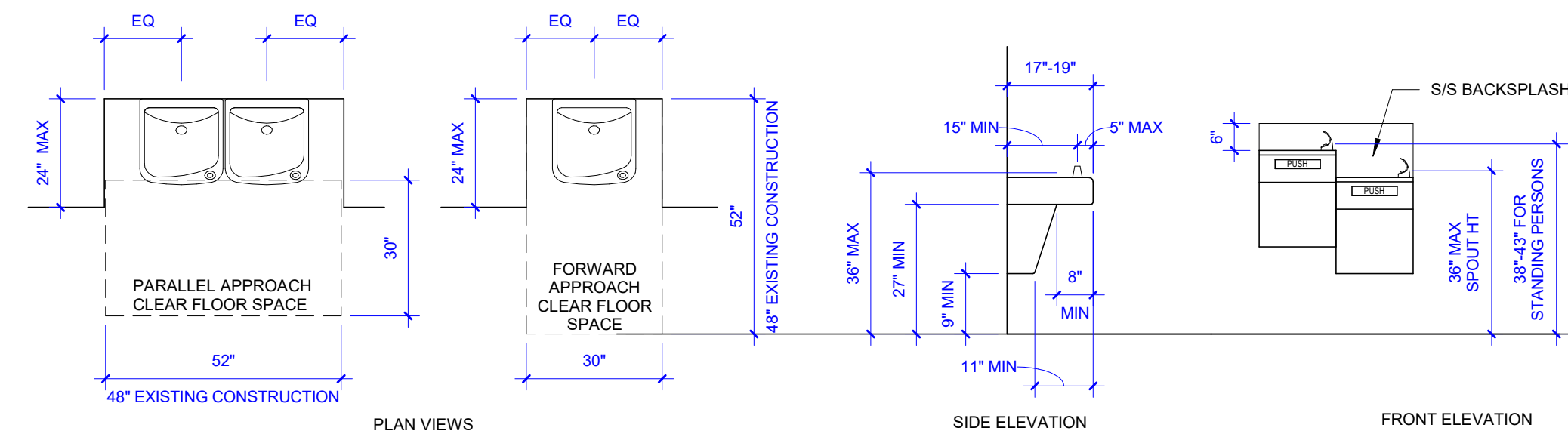
SCALE 3/8" = 1'-0"



NOTE:
1. COUNTERTOP MOUNTED LAVATORIES ARE TO BE MOUNTED WITH SAME CLEARANCES, REQUIREMENTS, ETC.
2. IF OPTIONAL VANITY BASE COVER IS NOT INSTALLED, A PVC PTRAP IS REQUIRED

2 ACCESSIBLE LAVATORY

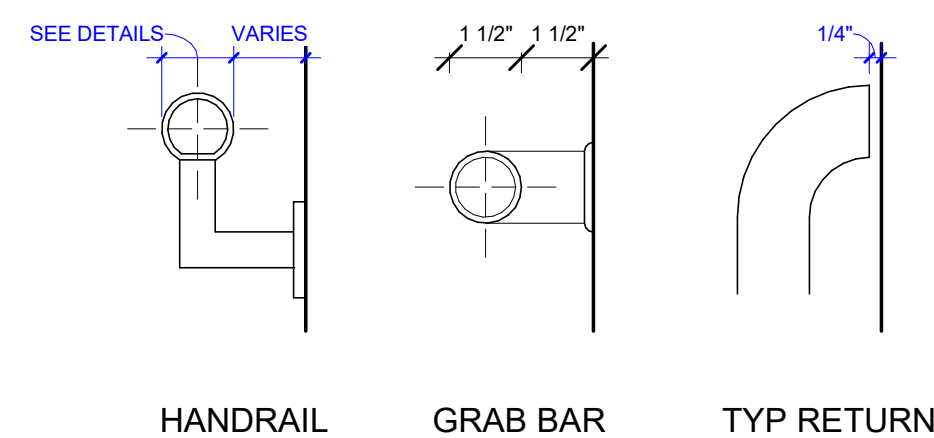
SCALE 3/8" = 1'-0"



NOTE:
1. SPOUT HEIGHT INDICATED BELOW IS FOR ADULTS AND IS TYPICAL UNLESS NOTED OTHERWISE.
2. DOUBLE HEIGHT DRINKING FOUNTAIN UNLESS OTHERWISE SPECIFIED, SINGLE UNIT SPOUT HEIGHT SHALL BE 36" A.F.F.
3. FOUNTAIN CANNOT BE PLACED IN EGRESS PATH, PROVIDE ALCOVE AND RECESS FOUNTAIN

7 ADA DRINKING FOUNTAIN

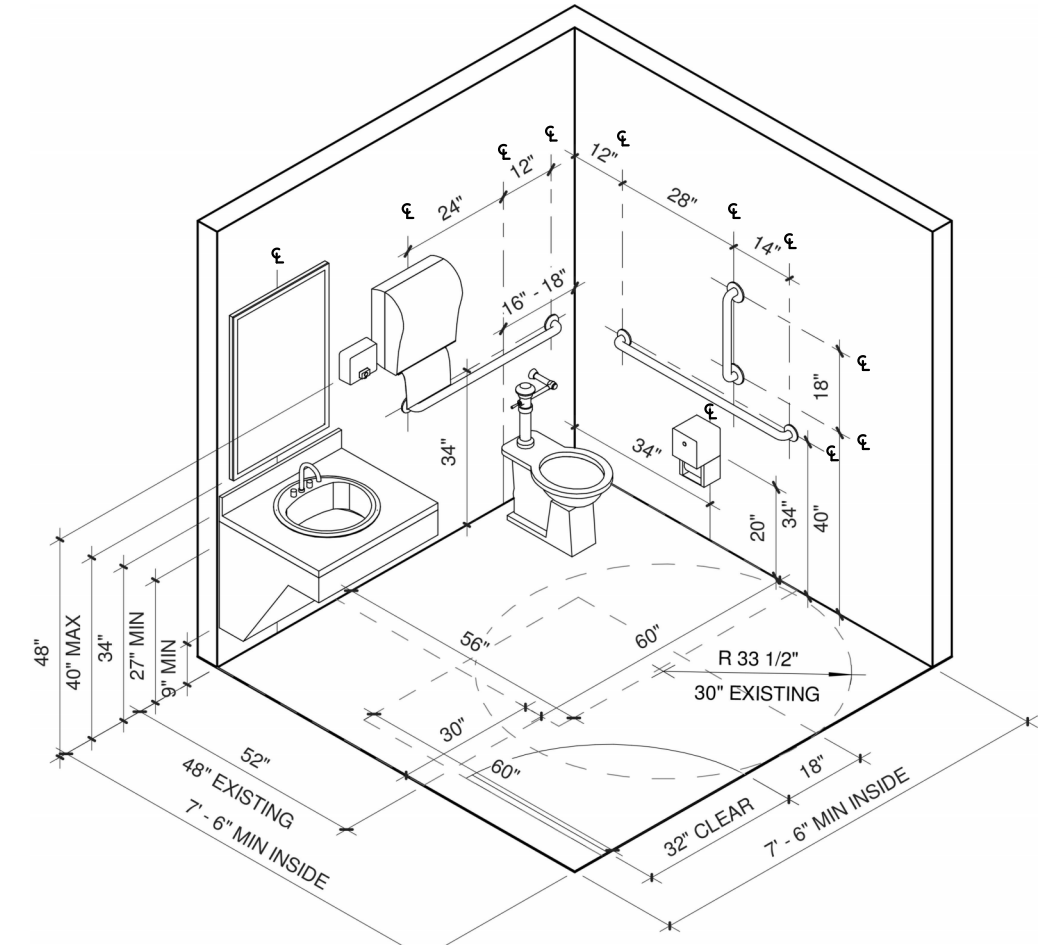
SCALE 3/8" = 1'-0"



NOTE:
1. GRAB BAR SHALL BE DESIGNED TO WITHSTAND A 250LB. LOAD. COORDINATE NECESSARY BLOCKING IN WALL WITH FRAMING CONTRACTOR.
2. HANDRAILS SHALL BE SPACED 2 1/4" AWAY FROM WALL FOR STAIRS AND 1 1/2" FOR RAMPS. SEE HANDRAIL DETAIL FOR MOUNTING HEIGHT.

4 ADA GRAB BARS /HANDRAILS

SCALE 3" = 1'-0"



NOTES:
1. REFER TO GRAB BAR DETAILS FOR MOUNTING HRIGHTS AND SIZES
2. REFER TO PLAN FOR ADDITIONAL DOOR INFORMATION
3. REFER TO VANITY DETAIL FOR ADDITIONAL VANITY INFORMATION

1 ADA RESTROOM - SINGLE

SCALE 3/8" = 1'-0"



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-201900419
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3213 S WEST BYPASS
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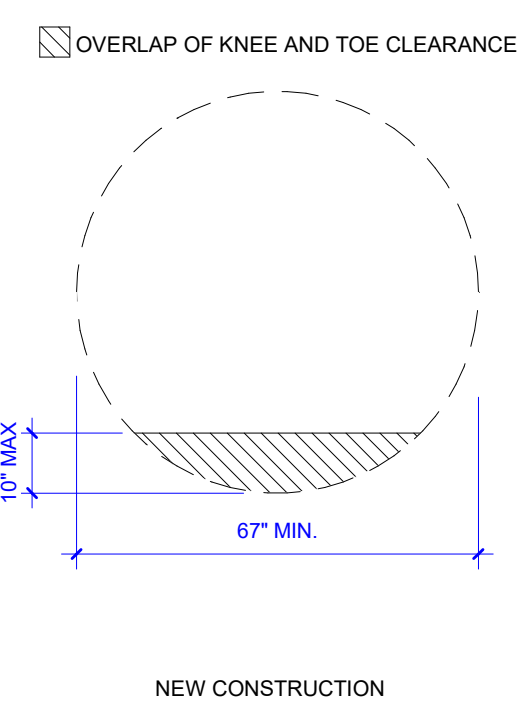
STRUCTURAL ENGINEER
RTM ENGINEERING CONSULTANTS
3046 SOUTH KANSAS EXPY
SPRINGFIELD, MO 65807
(417) 788-3515

MEP ENGINEER
CONWAY DUNCAN
600 W COLLEGE ST. SUITE 102
SPRINGFIELD, MO 65806
(417) 861-1586

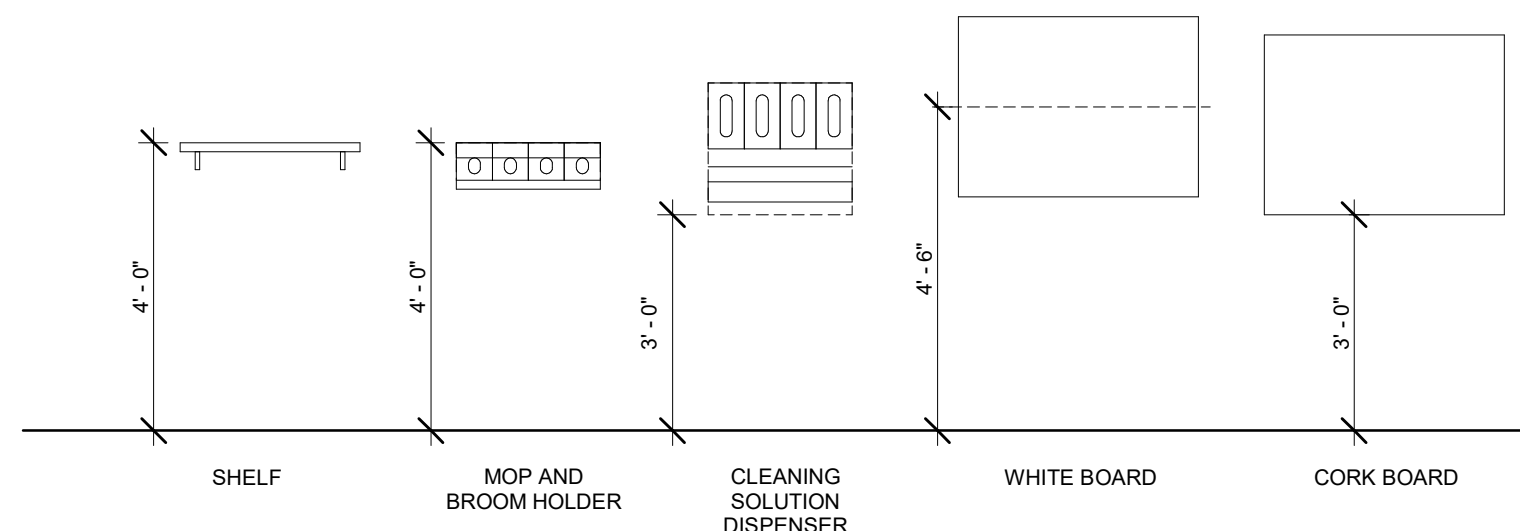


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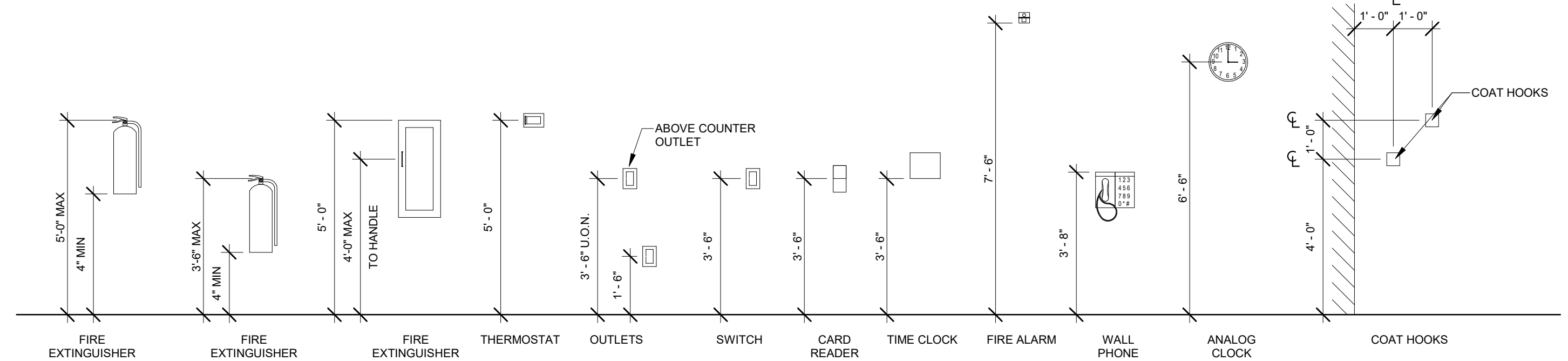
PERMIT SET
REVISION SCHEDULE



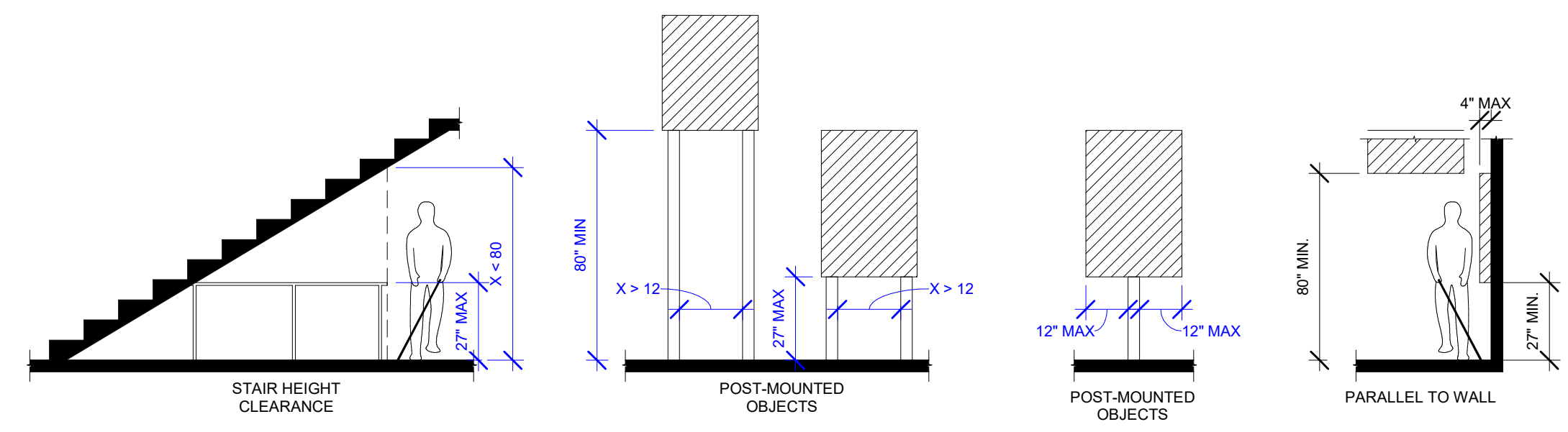
8 ADA TURN RADIUS
SCALE 3/8" = 1'-0"



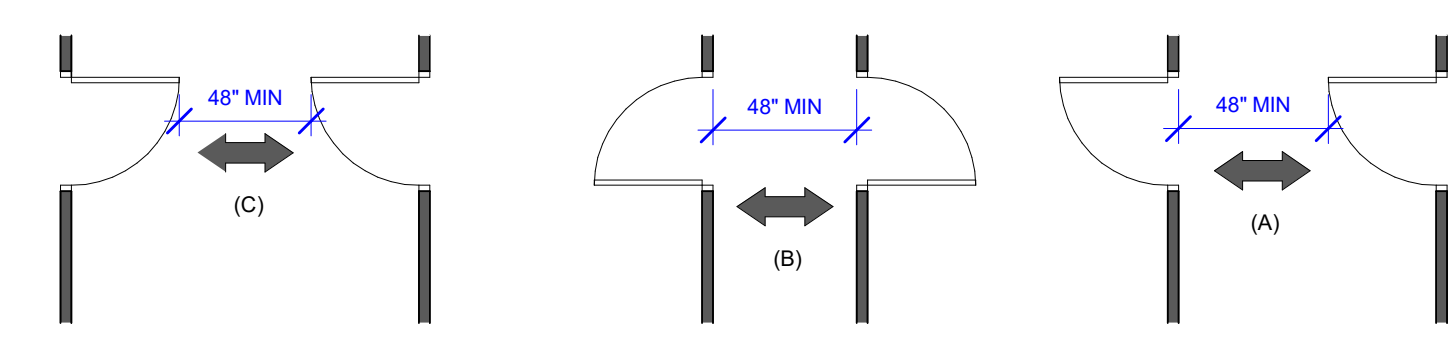
5 ACCESSIBLE ACCESSORIES TYPICAL
SCALE 3/8" = 1'-0"



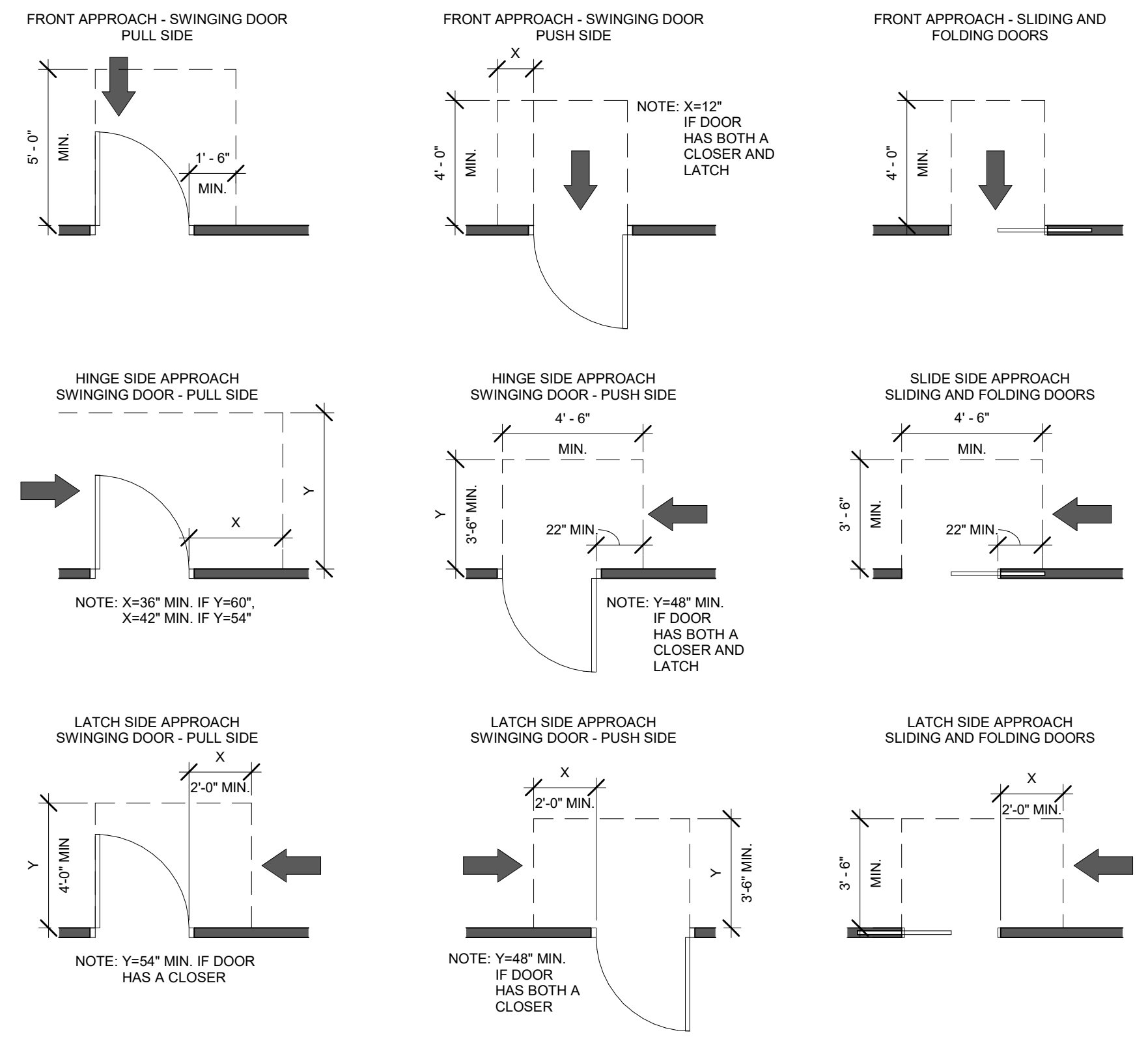
2 ACCESSIBLE ACCESSORIES TYPICAL
SCALE 3/8" = 1'-0"



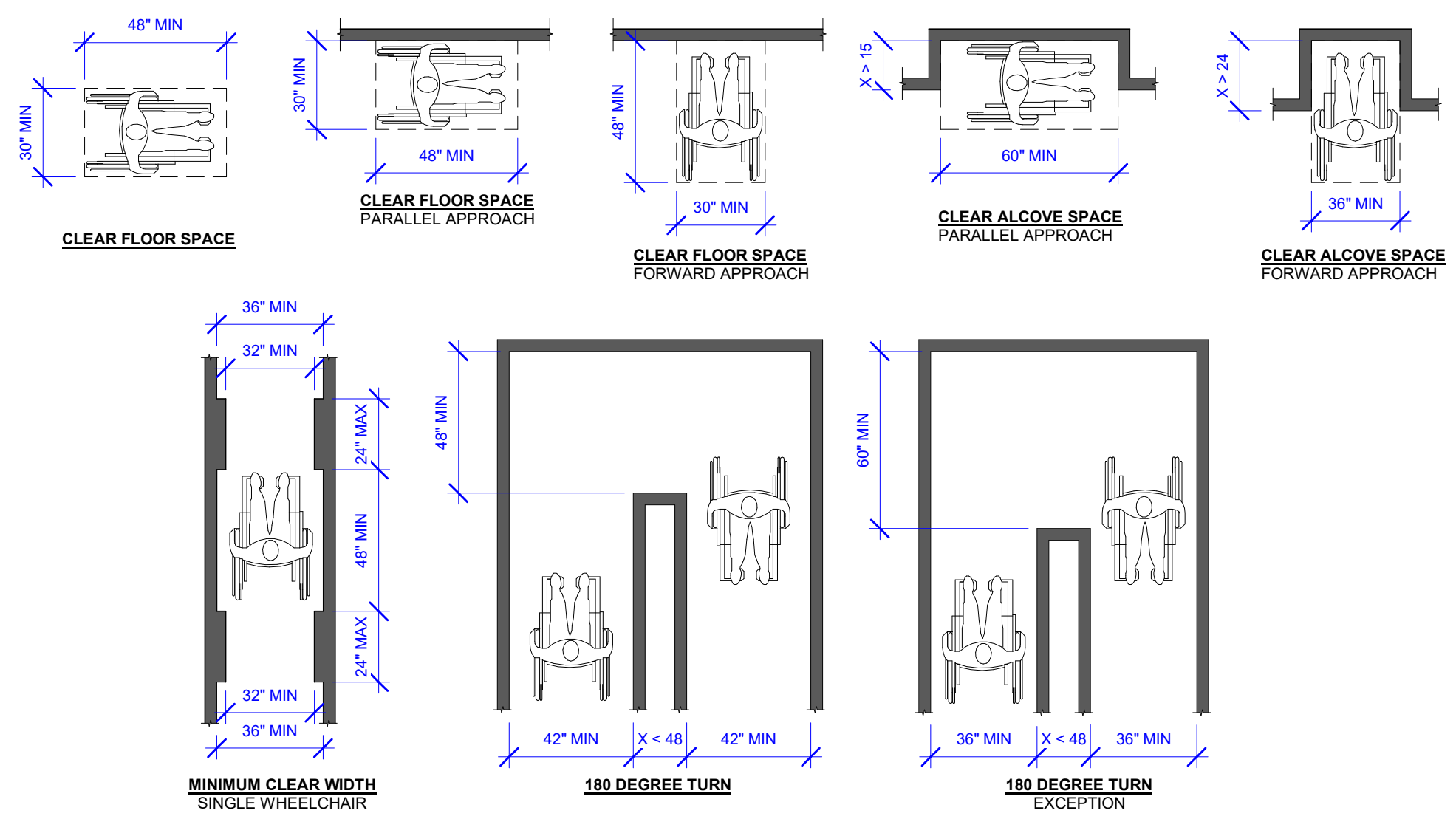
7 PROTRUDING OBJECT CLEARANCE
SCALE 1/4" = 1'-0"



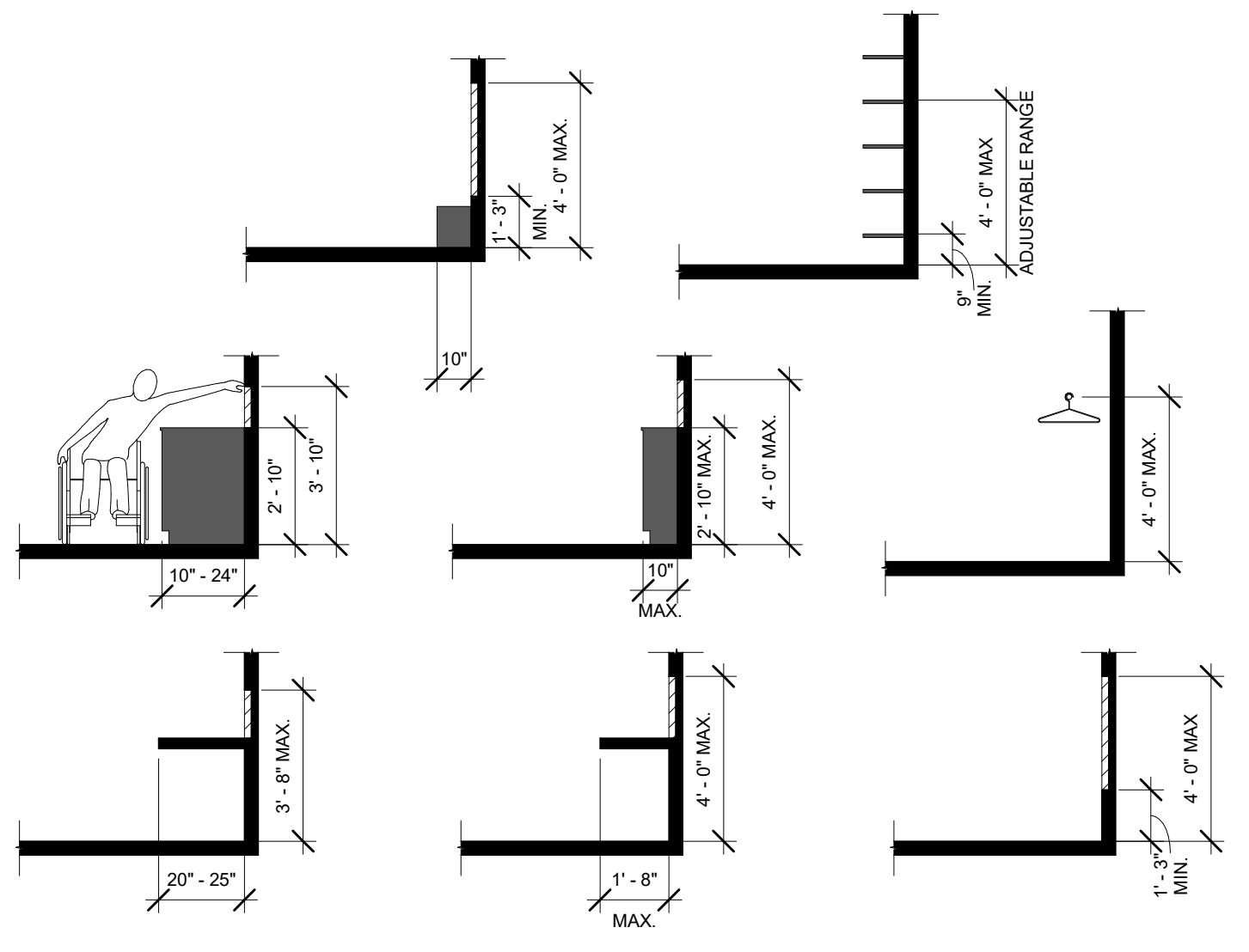
4 CORRIDOR DOOR CLEARANCES
SCALE 3/16" = 1'-0"



1 ADA APPROACH DIAGRAM
SCALE 1/4" = 1'-0"



6 CLEAR FLOOR SPACE & MANEUVERING ACCESS
SCALE 1/4" = 1'-0"



3 ADA REACH CLEARANCE
SCALE 1/4" = 1'-0"

PROJECT DESCRIPTION:
PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

**ACCESSIBILITY
STANDARDS**

SHEET NUMBER:
G0-3



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PERMIT SET

REVISION SCHEDULE

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200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

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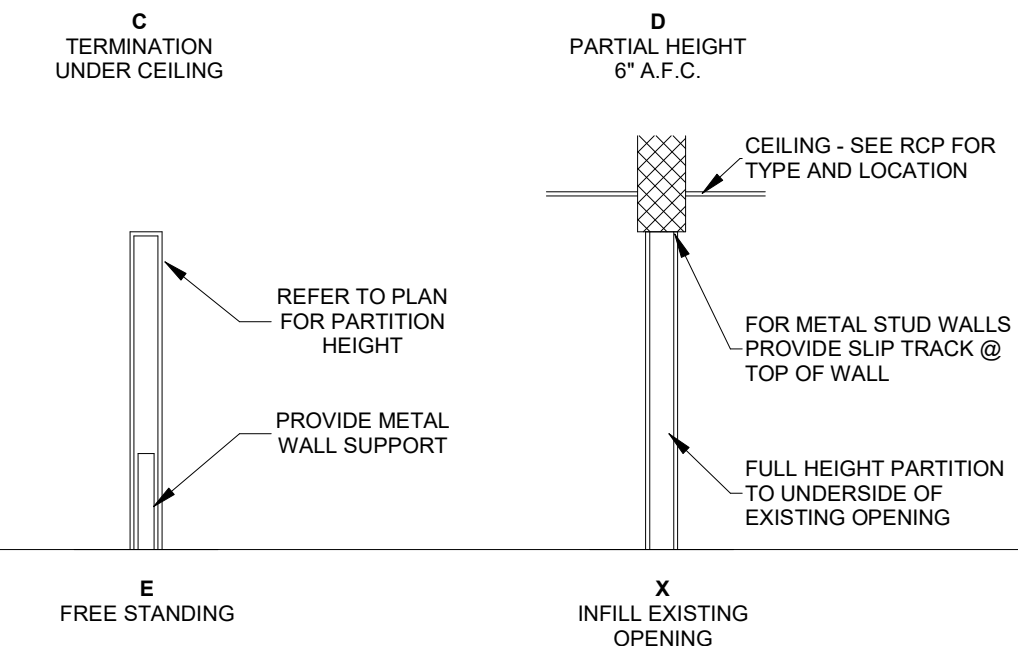
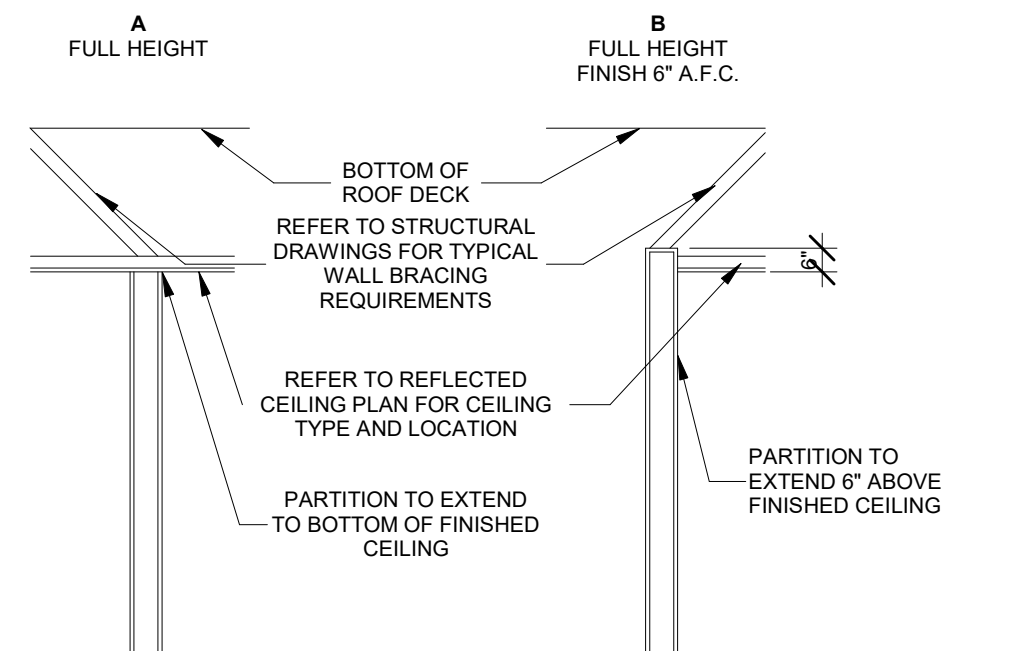
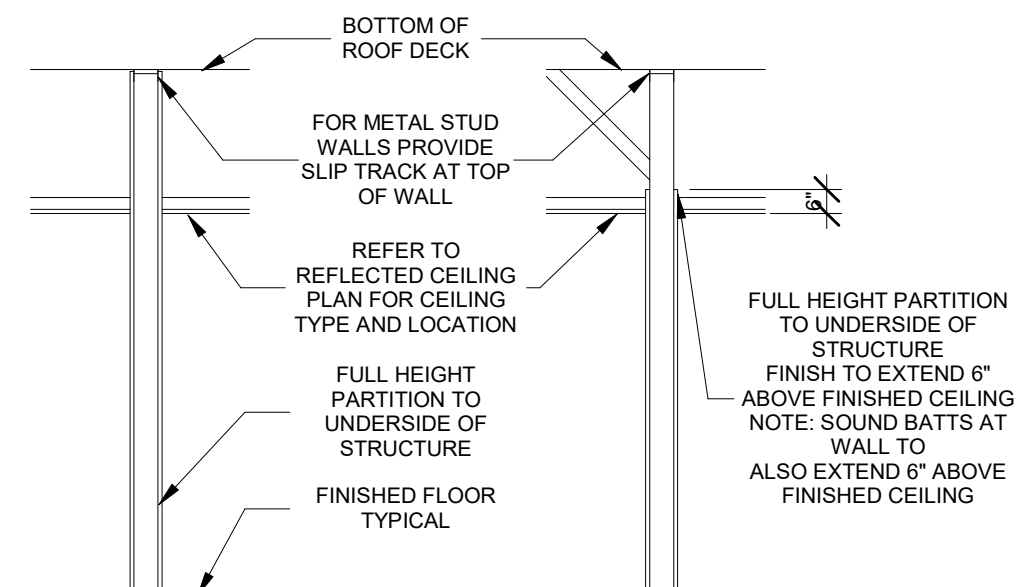
DATE:
2023.06.29

INTERIOR
PARTITION TYPES

SHEET NUMBER:

G0-4

TOP OF PARTITION LEGEND



PARTITION TAG LEGEND

PARTITION TAG IS COMPRISED OF THREE PARTS AS NOTED BELOW:

PARTITION RATING
0 = NON-RATED PARTITION
0.5 = 30-MINUTE RATED PARTITION
1 = 1-HOUR RATED PARTITION
2 = 2-HOUR RATED PARTITION
3 = 3-HOUR RATED PARTITION
4 = 4-HOUR RATED PARTITION

PARTITION TYPE
REFER TO DESCRIPTION IN PARTITION TYPE DETAILS

PARTITION TERMINATION
REFER TO TOP OF PARTITION LEGEND

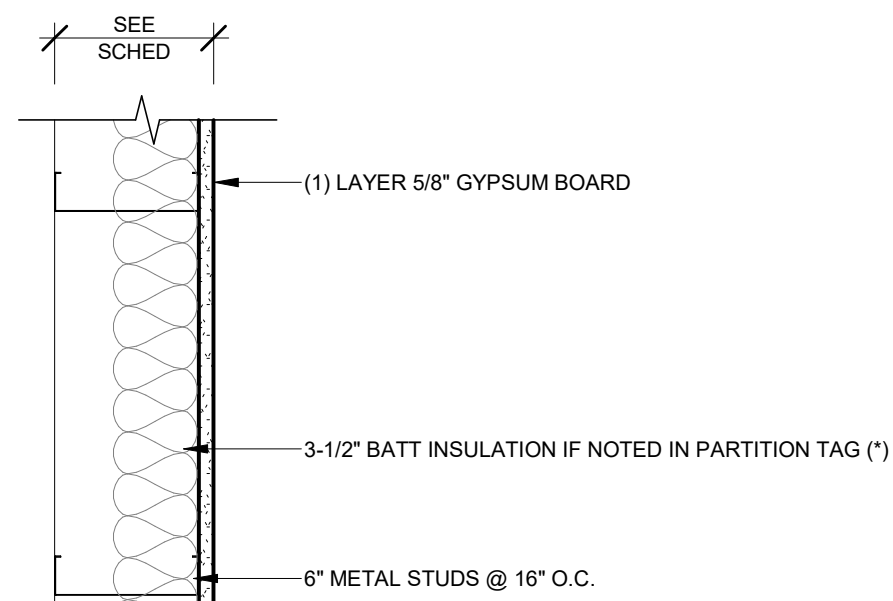
PARTITION INSULATION
PROVIDE BATT INSULATION AS NOTED

EXAMPLE PARTITION TAG:

PARTITION RATING
1-HOUR RATED PARTITION
PARTITION TYPE
PARTITION TYPE 01 - 3-5/8" STUDS WITH 5/8" GYP. BOTH SIDES, SEE PARTITION TYPE DETAIL
PARTITION TERMINATION
TOP OF WALL CONDITION A, RUN FRAMING AND GYP. BOARD SHEATHING TO BOTTOM OF STRUCTURE
PARTITION INSULATION
PROVIDE BATT INSULATION

PARTITION TYPE GENERAL NOTES

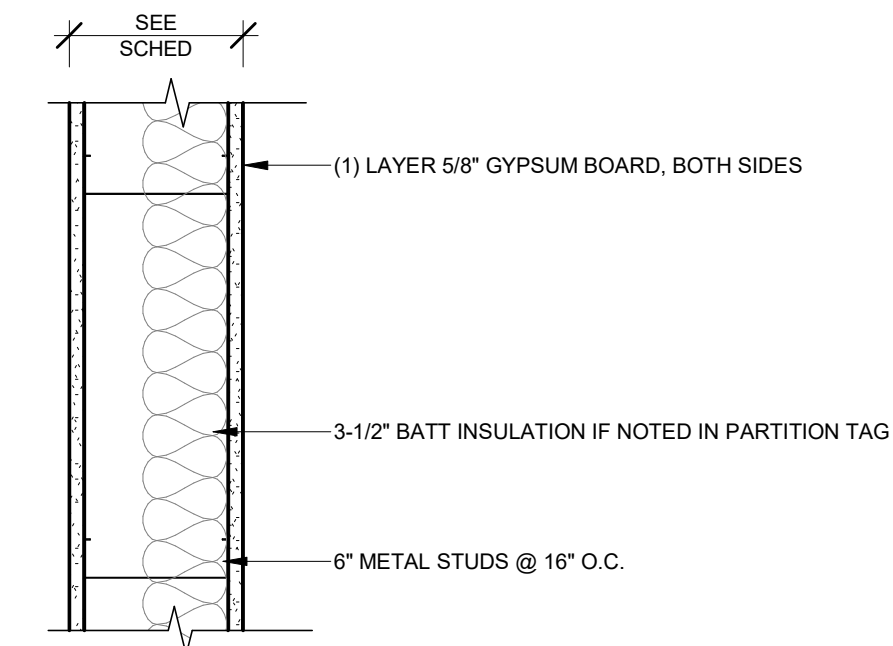
- EXTERIOR WALL CONSTRUCTION IS DESCRIBED IN WALL SECTIONS. INTERIOR WALL TYPES ARE DESCRIBED BY THEIR DENOTED WALL TYPE TAGS.
- ANY WALL CONSTRUCTION NOT NOTED WITH A PARTITION TYPE WALL TAG SHALL BE CLARIFIED FOR INTERPRETATION BY THE ARCHITECT PRIOR TO BIDDING.
- WALL TYPE INDICATES PRIMARY WALL ASSEMBLY ONLY. OVERLAID VENEERS, WAINSCOT, PLASTER, PAINT, AND WALL COVERINGS ARE INDICATED ON FLOOR PLANS, FINISH PLANS, INTERIOR ELEVATIONS, SCHEDULES, SPECIFICATIONS OR OTHER DETAILS IN ADDITION TO PRIMARY WALL ASSEMBLY.
- INTERIOR NON-LOAD BEARING WALLS WITH METAL STUD FRAMING SHALL BE INSTALLED PER THE STEEL STUD MANUFACTURERS ASSOCIATION STANDARDS REGARDING HEIGHT AND GAUGE. INTERIOR NON-LOAD BEARING METAL STUD FRAMING MUST BE SIZED TO ACCOMMODATE A LATERAL LOAD OF 7-1/2 POUNDS PER SQUARE FOOT (PSF) WITH A DEFLECTION LIMIT OF 1/240. ALL LOAD BEARING STUDS IN RATED ASSEMBLIES SHALL ALSO COMPLY WITH MINIMUM STUD GAUGE PER UL ASSEMBLY REQUIREMENTS.
- REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR THE DELEGATED DESIGN OF LOAD-BEARING LIGHT-GAUGE METAL FRAMING, INCLUDING ALL LOAD BEARING WALLS, FLOORS, AND THEIR CONNECTIONS. ALL LOAD BEARING STUDS IN RATED ASSEMBLIES SHALL ALSO COMPLY WITH MINIMUM STUD GAUGE PER UL ASSEMBLY REQUIREMENTS.
- THE CONTRACTOR SHALL COORDINATE WALL FRAMING ABOVE FINISHED CEILINGS WITH FRAMING, PLUMBING, AND HVAC CONTRACTORS. THE FRAMING CONTRACTOR SHALL PROVIDE THE NECESSARY ROUGH OPENING FRAMING REQUIRED TO FACILITATE BUILDING SYSTEM PENETRATIONS. REFER TO MEP ENGINEERING DRAWINGS FOR LOCATIONS OF EXISTING AND NEW BUILDING SYSTEMS. SOME WALL FRAMING AND BRACING MAY REQUIRE ADJUSTMENT OR RE-LOCATION TO ALLOW FOR DUCT AND PIPE ROUTING.
- SEE INTERIOR ELEVATIONS FOR GYPSUM BOARD CONTROL JOINTS. PROVIDE ADDITIONAL CONTROL JOINTS PER USG'S GOOD CONSTRUCTION PRACTICES WB2334 DOCUMENT WHEREVER CONTROL JOINTS ARE NOT SHOWN.
- ALL WALLS WITH PLUMBING FIXTURES AND WALLS ADJACENT TO PLUMBING FIXTURES SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYPSUM BOARD ON BOTH SIDES.
- ALL WALLS IN CORRIDORS SHALL RECEIVE ABUSE-RESISTANT GYPSUM BOARD UP TO 4'-0" ABOVE FINISH FLOOR MINIMUM. BASIS-OF-DESIGN TO BE NATIONAL GYPSUM HI-ABUSE XP OR ARCHITECT APPROVED EQUAL.
- SEE STRUCTURAL DRAWINGS, NOTES, AND DETAILS FOR ADDITIONAL STRUCTURAL CMU AND STRUCTURAL STUD WALL INFORMATION. THIS IS A TYPICAL CONDITION FOR ALL WALL TYPES.
- ASSEMBLIES SHALL BE AIRTIGHT. SEAL ALL PENETRATIONS AND CRACKS WITH ACOUSTICAL SEALANT IN NON-RATED PARTITIONS. PROVIDE FIRE RATED SEALANT AT CRACKS IN FIRE RATED PARTITIONS. PROVIDE ACOUSTICAL SEALANT AT THE TOP AND BOTTOM OF PARTITIONS. PROVIDE FIRE RATED SEALANT AT THE TOP AND BOTTOM OF FIRE RATED PARTITIONS.
- RECESSED FIXTURES SUCH AS OUTLETS SHALL NOT BE PLACED BACK TO BACK IN THE SAME STUD CAVITY.
- PROVIDE WOOD BLOCKING FOR ALL ACCESSORIES, EQUIPMENT, AND CASEWORK. SEE PLANS FOR LOCATIONS.
- FOR ALL RATED ASSEMBLIES - PARTITION DETAILS ON THIS SHEET ARE INTENDED TO ILLUSTRATE BASIC WALL ASSEMBLY. REFER TO UL LISTING DETAILS FOR SPECIFIC INSTRUCTION REGARDING ATTACHMENT, MATERIAL AND MANUFACTURER SELECTION, ETC.



PTN. TYPE	RATING	WIDTH	NOTES
0.04.X	-	6 5/8"	-

INTERIOR PARTITION #.04.X

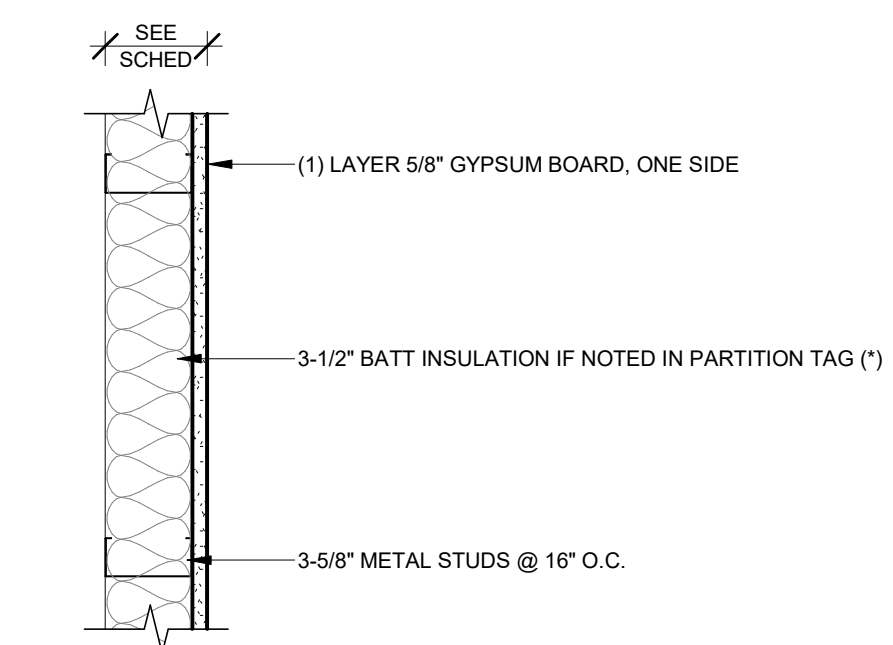
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.03.X	-	7 1/4"	-

INTERIOR PARTITION #.03.X

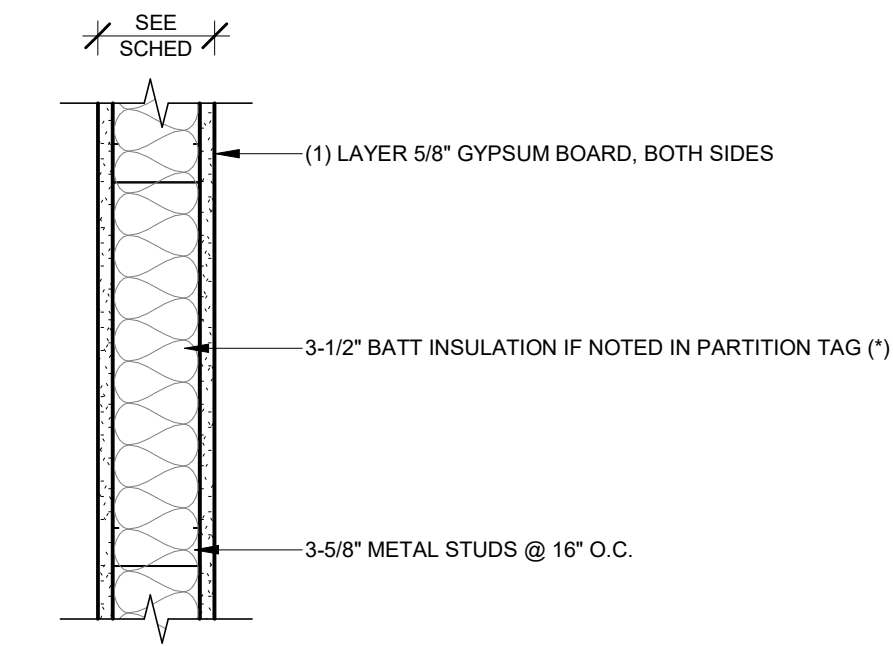
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.02.X	-	4 1/4"	-

INTERIOR PARTITION #.02.X

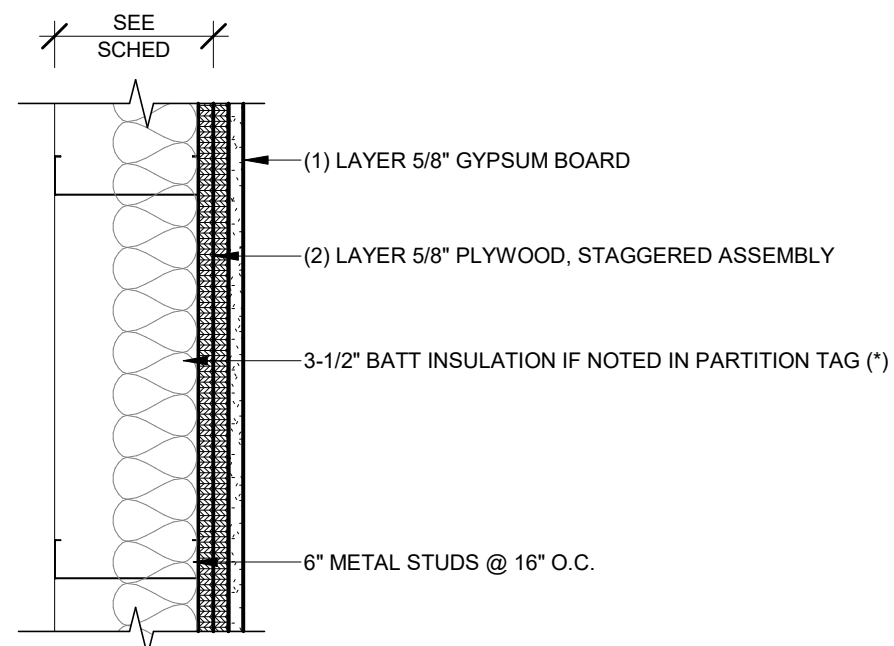
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.01.X	-	4 7/8"	-

INTERIOR PARTITION #.01.X

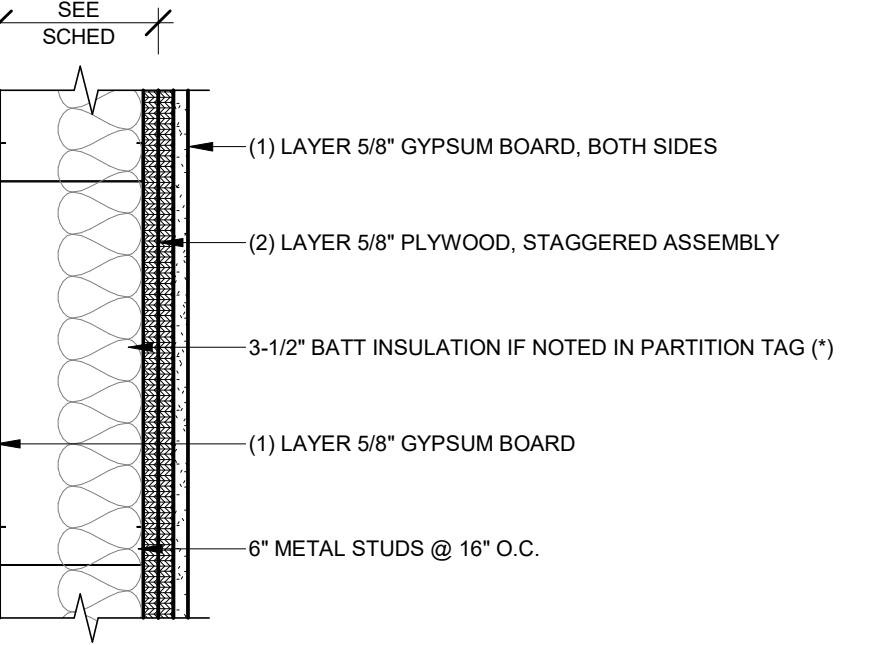
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.08.X	-	7 7/8"	-

INTERIOR PARTITION #.08.X

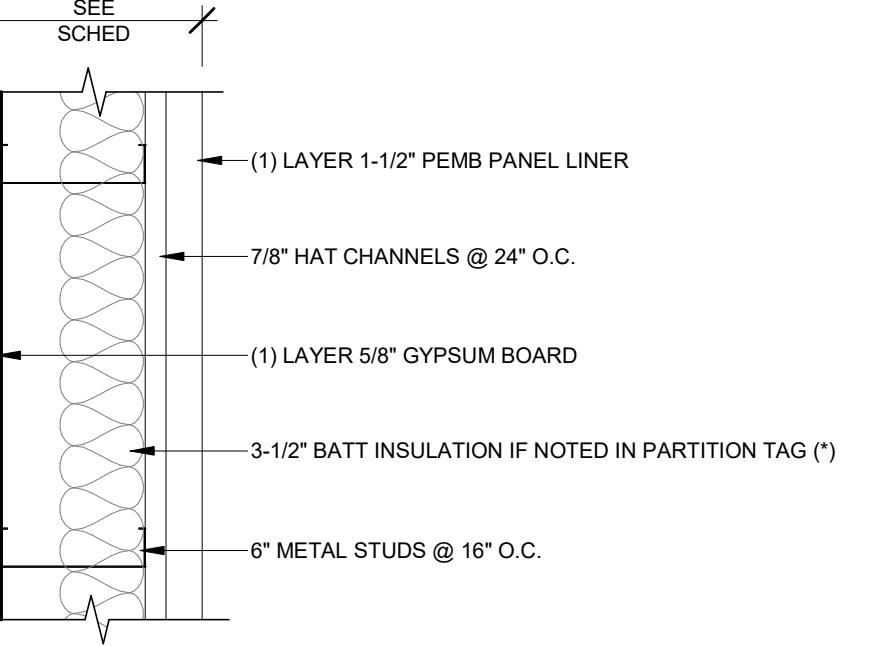
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.07.X	-	8 1/2"	-

INTERIOR PARTITION #.07.X

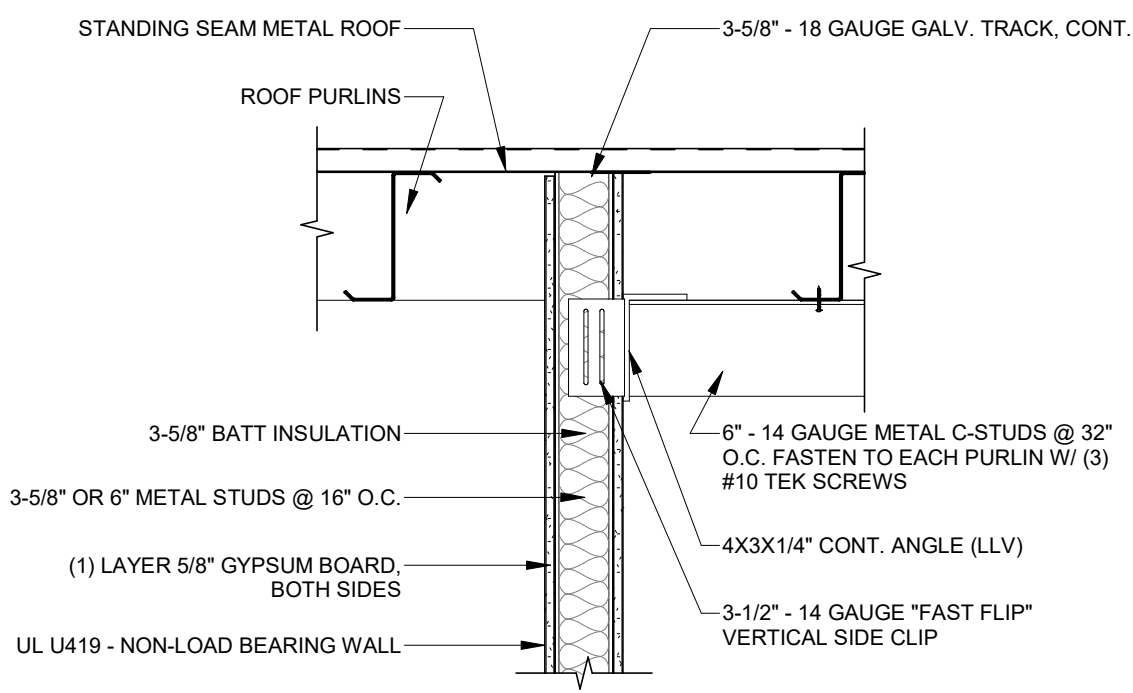
NTS



PTN. TYPE	RATING	WIDTH	NOTES
0.05.X	-	9"	-

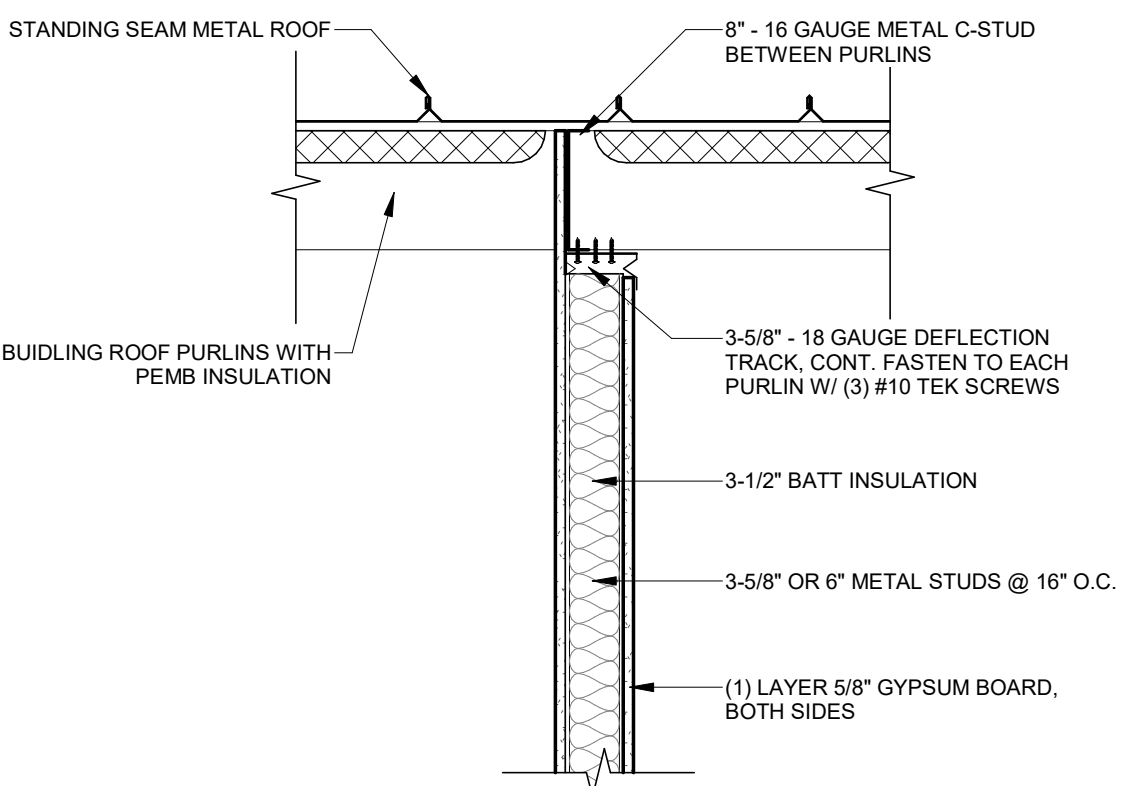
INTERIOR PARTITION #.05.X

NTS



HEAD DETAIL
PARALLEL TO PURLINS

NTS



HEAD DETAIL
PERPENDICULAR TO PURLINS

NTS

GENERAL NOTES:

1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.
2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
5. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
6. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL.
7. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
8. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
9. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.
10. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.
11. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
12. ALL SITE DIMENSIONS TO THE FACE OF CURB, PAVEMENT OR PROPERTY LINE UNLESS OTHERWISE NOTED. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
13. REMOVE ALL EXISTING SITE CONSTRUCTION AND DELETERIOUS MATERIALS UNLESS OTHERWISE NOTED.
14. ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL UNLESS OTHERWISE NOTED.

CAUTION:

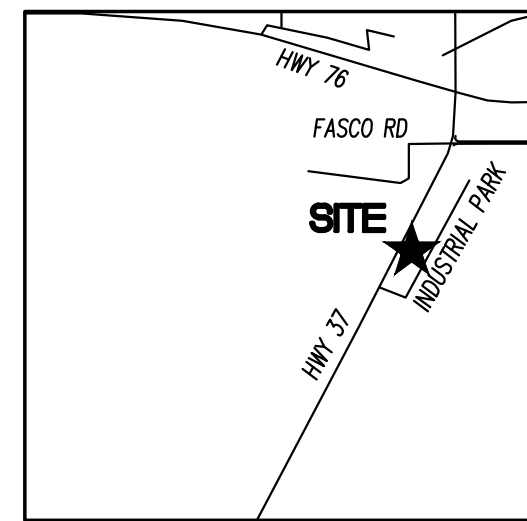
EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SPECIAL NOTE:

CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED AREAS OF PAVEMENT DUE TO CONSTRUCTION ACTIVITIES.

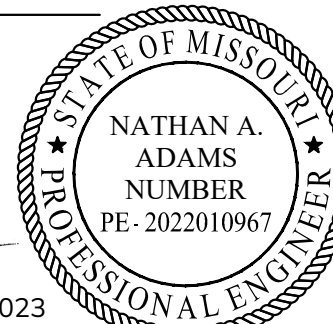
RIP-RAP NOTE:

HAND PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHewn QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 30-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. STONES SHALL BE A MINIMUM OF 6" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.



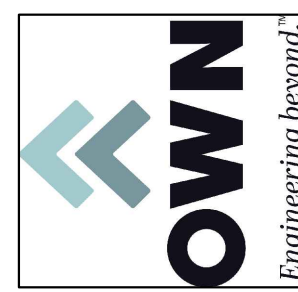
LOCATION SKETCH

SEC. 31, T23N, R27W
NOT TOT SCALE



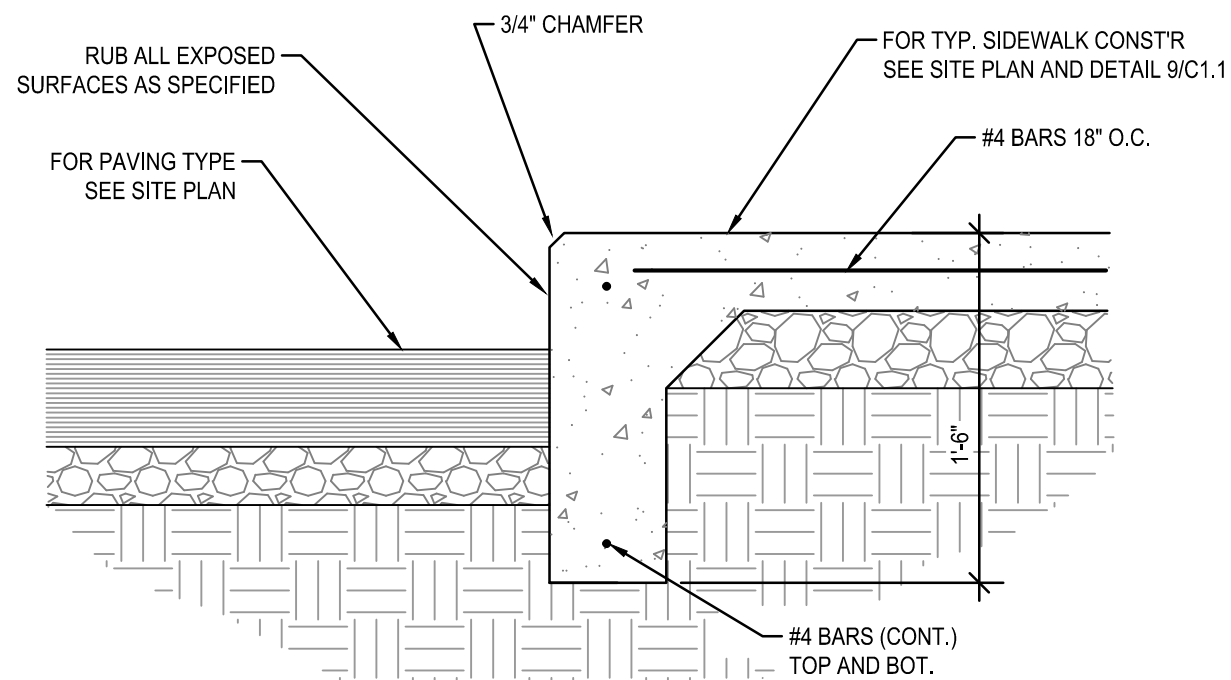
3213 S. West Bypass
Springfield, MO 65807
www.ownarch.com

COA#000062
Engineer PE# 2022010967
Project No. 23SP10063
FORMERLY ANDERSON ENGINEERING



SAFETY NOTES:

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

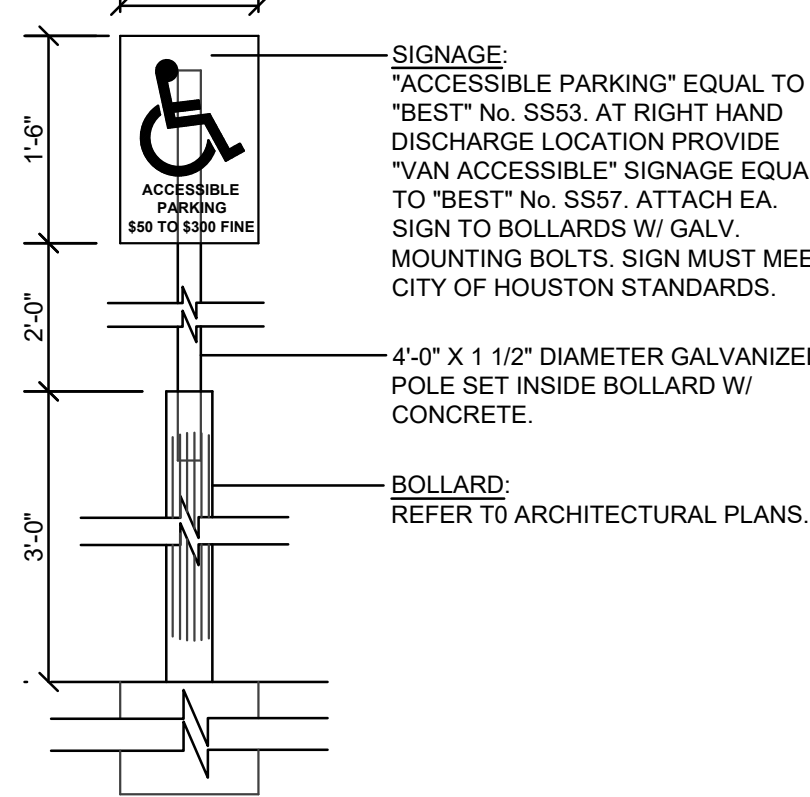


GENERAL NOTES

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER
2. ALL #4 TO HAVE 1-1/2" COVER.
3. ALL REINFORCING BARS TO BE GRADE 60.
4. ALL CONCRETE TO BE 5,000 PSI.

5 TURNDOWN SIDEWALK DETAIL

C1 SCALE: NOT TO SCALE



6 H.C. PARKING SIGNAGE POLE MOUNTED

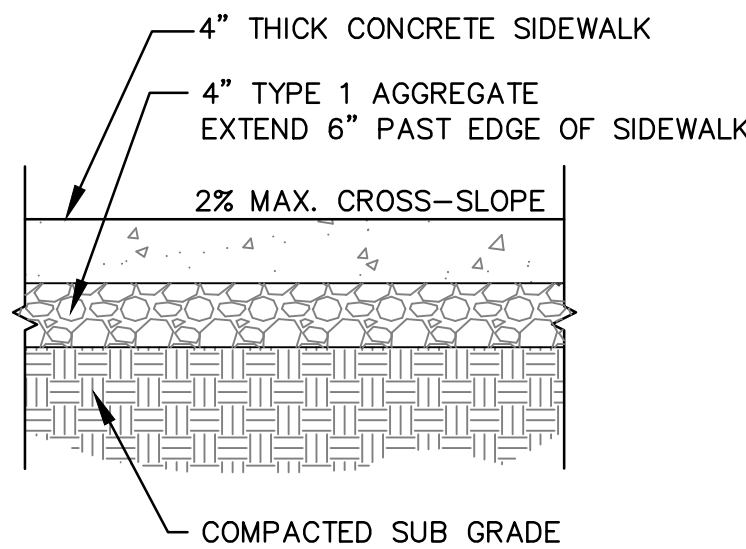
C1 SCALE: NOT TO SCALE

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.	
	BASE BID BUILDING
	ASPHALT
	GRAVEL
	BID ALTERNATE
	CONCRETE

KEY NOTES:

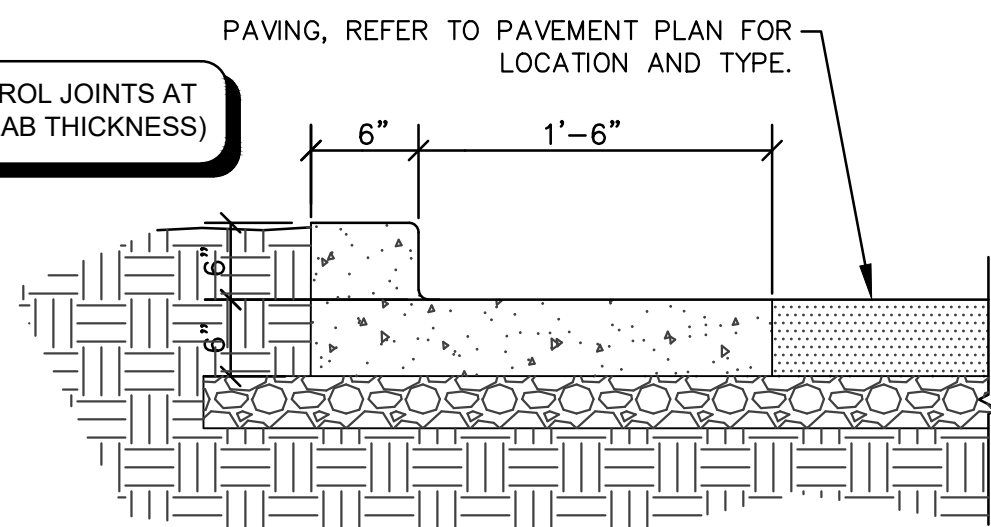
- 1 NEW CURB AND GUTTER PER DETAIL 2/C1.
- 2 INSTALL 3" CURB CUT.
- 3 STRIPING TO BE 4" HI-VIS WHITE PER CITY OF CASSVILLE STANDARDS AND SPECS.
- 4 INSTALL ADA ACCESSIBLE SYMBOL PER DETAIL 4/C1.
- 5 MATCH NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT.
- 6 NEW SIDEWALK REFER TO DETAILS 3/C1 AND 5/C1.
- 7 NEW STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 6/C4.
- 8 NEW GRAVEL PARKING LOT. REFER TO DETAIL 5/C4.
- 9 SAW CUT AND REMOVE EXISTING CURB @ ACCESS CONNECTIONS.
- 10 HANDICAP LOADING AREA STRIPING TO BE SINGLE WHITE HI-VIS SOLID LINE, 4" WIDE (TYP.) @ 24" O.C. PER CITY OF CASSVILLE STANDARDS.
- 11 INSTALL HANDICAP RAMP PER ADA REQUIREMENTS
- 12 NEW HANDICAP POLE MOUNTED SIGNAGE. REFER TO DETAIL 6/C1.
- 13 NEW FENCE, 6' TALL CHAIN LINK FENCING WITH 3 STRANDS OF 12-1/2 GAUGE 4 POINT CLASS 1 GALVANIZED OR ALUMINUM COATED SPRING WIRE WIRE ON TOP. STEEL FABRIC TO BE 9 GAUGE 2" DIAMOND MESH, GALVANIZED AND ZINC COATED. STEEL POSTS TREATED WITH TRIPLE COAT OF HOT DIP GALVANIZING. LINE POSTS TO BE 1 1/2" O.D. ENG. ANGLE AND CORNER POSTS TO BE 2 3/8" O.D. GATE POSTS TO BE 4" O.D (OR LARGER AS REQUIRED BY GATE TYPE/DESIGN). TOP RAIL TO BE 1 1/2" O.D AND 18" LENGTHS. BOTTOM TENSION WIRE TO BE 7 GAUGE GALVANIZED OR ALUMINUM COATED SPRING WIRE.
- 14 NEW 40' ROLLING GATE. MATERIAL TO BE APPROVED BY OWNER. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- 15 FLAG POLE. FINAL LOCATION AND MANUFACTURER TBD BY OWNER. REFER TO DETAIL 2/L1.
- 16 16' SWINGING GATE. MATERIAL TBD BY OWNER.
- 17 BID ALTERNATE FENCE LOCATION.
- 18 BID ALTERNATE 16' SWINGING GATE. MATERIAL TBD BY OWNER.
- 19 MONUMENT SIGN. FINAL LOCATION AND MANUFACTURER TBD BY OWNER.
- 20 EQUIPMENT PAD. CONSTRUCT PER DETAIL 3/C1



- NOTE:
1. ALL SIDEWALKS ARE TO BE BUILT PER CITY OF CASSVILLE STANDARDS.
 2. CONTROL JOINTS AT 5'-0" O.C.

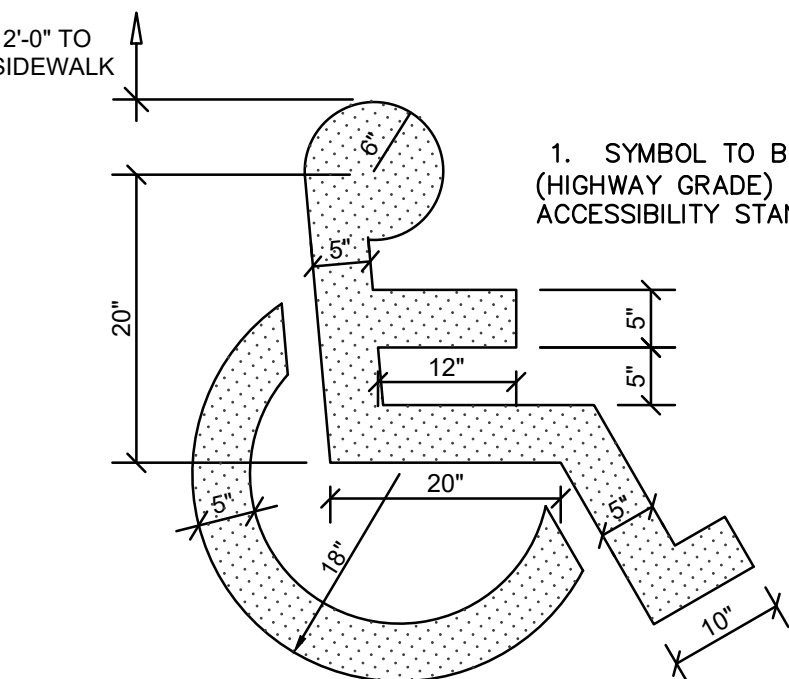
3 TYPICAL SIDEWALK CROSS-SECTION

C1 SCALE: NOT TO SCALE



2 CURB AND GUTTER

C1 SCALE: NOT TO SCALE

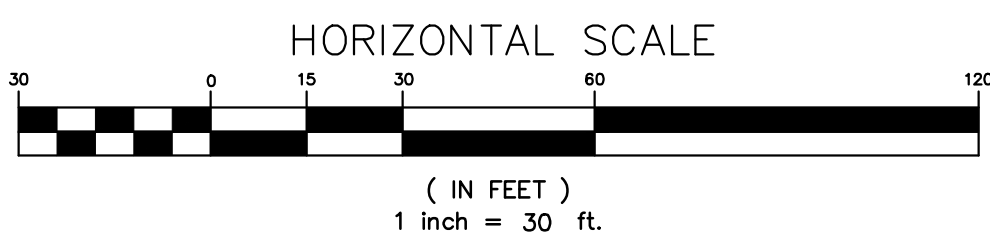


4 H.C. PARKING SYMBOL

C1 SCALE: NOT TO SCALE

1 SITE LAYOUT AND DIMENSION PLAN

C1 SCALE: 1" = 30'



PROVIDE CONTROL JOINTS AT 10' O.C. (25% SLAB THICKNESS)



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Project Status

REVISION SCHEDULE

PUBLIC WORKS FACILITY

PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:

PROJECT NUMBER:
23-777

DATE:
06/29/2023

SITE LAYOUT AND DIMENSION PLAN

SHEET NUMBER:

C1

GENERAL NOTES:

1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.
2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS.
5. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
6. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
7. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL.
8. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
9. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.
11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.

SAFETY NOTES:

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

RIP-RAP NOTE:

HAND PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 30-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. STONES SHALL BE A MINIMUM OF 6" IN DIAMETER AND PLACED A MINIMUM OF 18" BELOW FINISH GRADE.

PIPES NOTES:

1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP) AND HIGH DENSITY POLYETHYLENE (HDPE) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.

KEY NOTES:

1. HANDICAP PARKING AREA. REFER TO DETAIL 2/C2.
2. INSTALL 3' CURB CUT WITH CONCRETE TRICKLE CHANNEL. REFER TO DETAIL 4/C4.
3. INSTALL 8" DIAMETER PIPE TO DOWNSPOUT COLLECTOR @ MIN 0.5% SLOPE. REFER TO DETAIL 2/C4 AND PIPE NOTES.
4. INSTALL 18" DIAMETER PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.
5. INSTALL 4'x4' JUNCTION BOX. RIM = 1343.6', INV = 1339.7'. REFER TO DETAIL 3/C4.
6. INSTALL 18" DIAMETER PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.
7. INSTALL DETENTION OUTLET STRUCTURE. REFER TO DETAIL 9/C4.
8. INSTALL OF 18" DIAMETER PIPE @ MIN 0.5% SLOPE. REFER TO PIPE NOTES.
9. INSTALL 5'x7' RIP-RAP PAD. REFER TO RIP-RAP NOTE.
10. INSTALL 12' OVERFLOW IN BERM @ GD = 1341.0'.
11. INSTALL 5'x12' RIP-RAP PAD. REFER TO RIP-RAP NOTE.

STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS.
2. INSTALLATION OF CONSTRUCTION ENTRANCE.
3. IMPLEMENTATION OF EROSION CONTROL FENCE.
4. IMPLEMENTATION OF STORMWATER POLLUTION PREVENTION PLAN.
5. DEMOLITION OF EXISTING SITE IMPROVEMENTS, IF REQUIRED.
6. INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS.
7. ROUGH GRADING.
8. CONSTRUCTION OF NEW SITE IMPROVEMENTS.
9. FINAL GRADING.
10. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
11. REMOVAL OF EROSION AND SEDIMENT CONTROL ITEMS.

UTILITY NOTES:

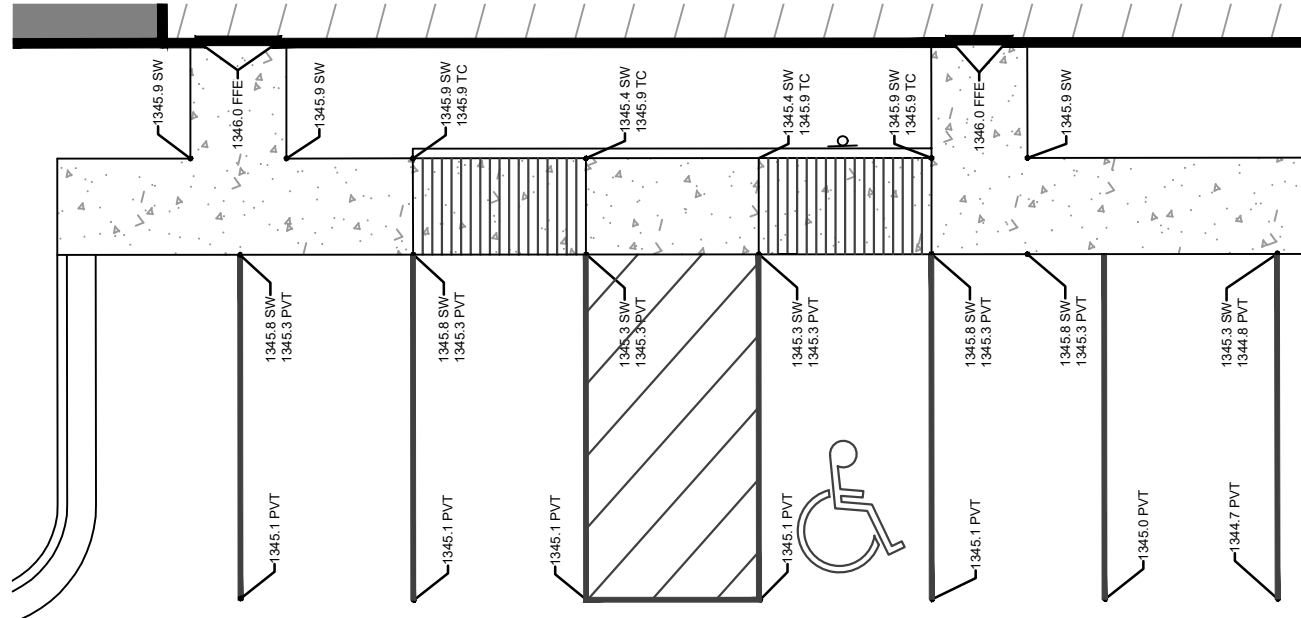
1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS LINES, GAS MAINS LINES, SEWER MAINS LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

SPECIAL NOTE:
CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING PAVEMENT AT DRIVEWAY ENTRANCES, SIDEWALK CONNECTIONS, AND ALL CONNECTION POINTS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.

SPECIAL NOTE:
FIELD VERIFY SANITARY SEWER AND STORM SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

CAUTION:
EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SPECIAL NOTE:
CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.



HANDICAP AREA TO BE ADA COMPLIANT. SLOPES SHALL NOT EXCEED 2.0% IN ANY DIRECTION IN THIS AREA.

2 HANDICAP PARKING DETAIL

C2 SCALE: 1" = 10'

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.

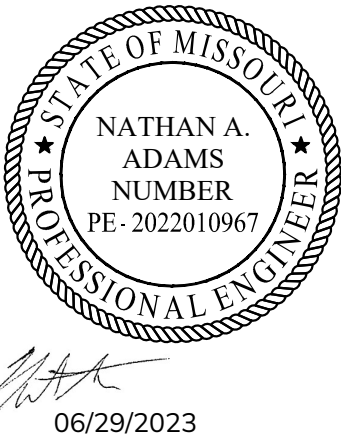
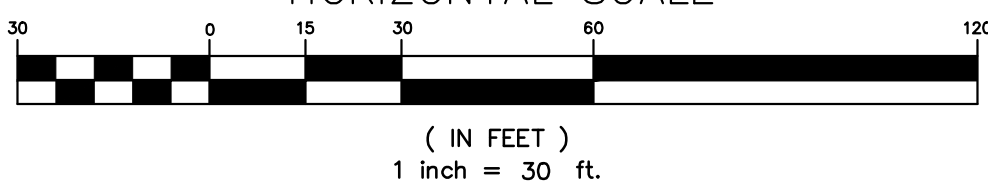
	NEW BUILDING CONSTRUCTION
	ASPHALT
	GRAVEL
	BID ALTERNATE
	EXISTING GRADE LINES
	PROPOSED NEW GRADE LINES
	DRAINAGE SWALE
	GRADE BREAK
	NEW FENCE
	NEW SPOT ELEVATIONS
LIST	ABBREVIATION
GRADE	NONE
SIDEWALK	SW
TOP OF WALL	TW
TOP OF CURB	TC
TOP OF PAVEMENT	PVT
NEW GRADE	GD
CONCRETE	CONC
EXISTING TOP OF CURB	ETC
EXISTING GRADE	EGD
EXISTING PAVEMENT	EPVT
EXISTING SIDEWALK	ESW
LADOT PAVEMENT (+3.5')	NPVT
FLOW LINE	FL
TOP OF BERM	TOP

LAND DISTURBANCE SUMMARY:

TOTAL PROPERTY AREA = 10.95 ACRES
TOTAL SITE DEVELOPMENT DISTURBED AREA = 3.04 ACRES
PROPOSED DEVELOPMENT INCREASES IMPERVIOUS SURFACE BY APPROXIMATELY 1.57 ACRES

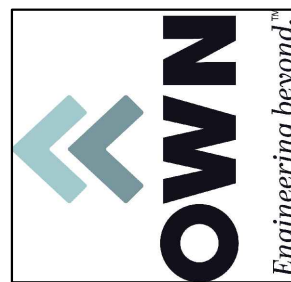
1 SITE GRADING PLAN

C2 SCALE: 1" = 30'



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Project Status
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PROJECT DESCRIPTION:
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PROJECT ARCHITECT:
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PROJECT NUMBER:
23-777

DATE:
06/29/2023

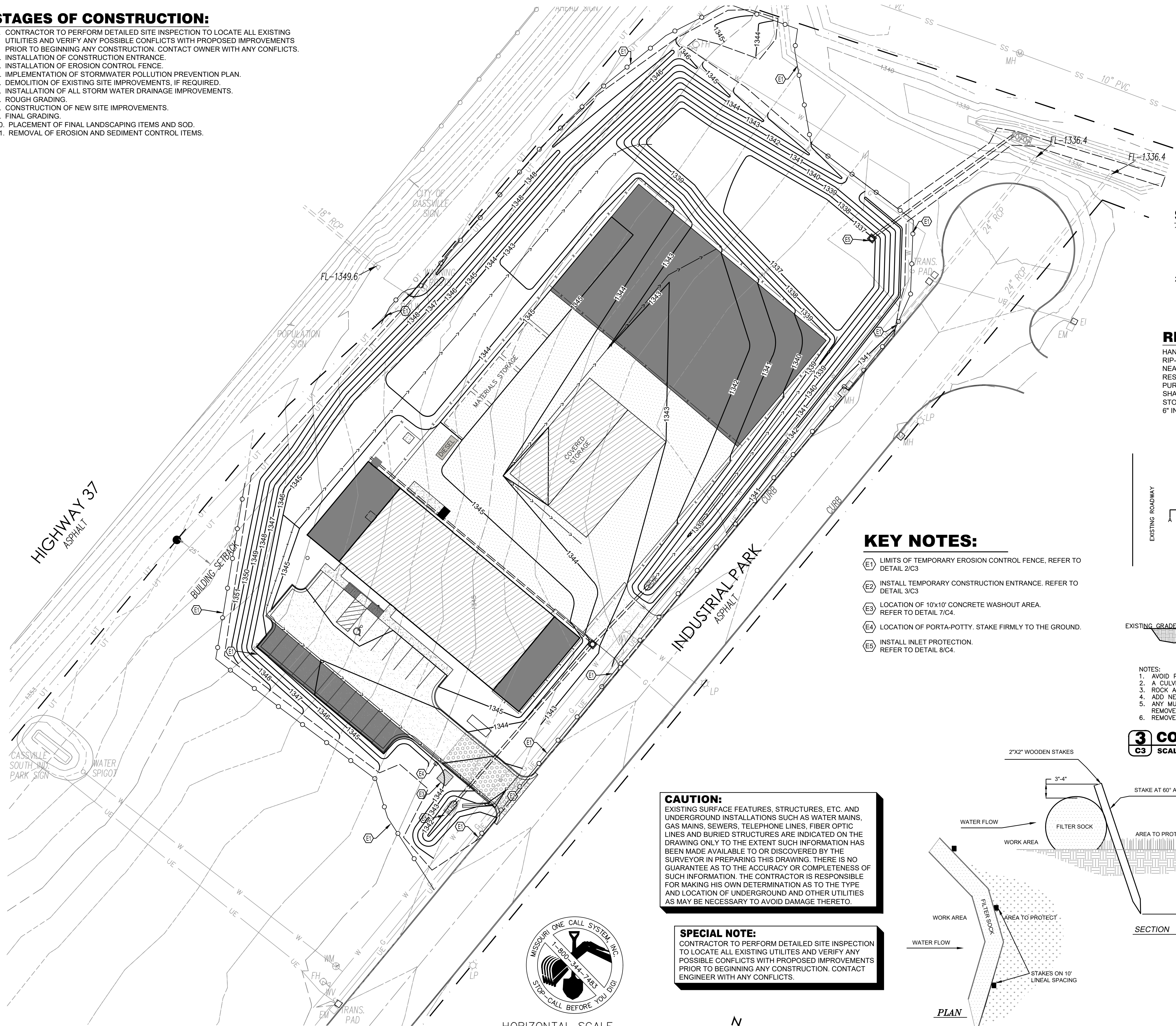
SITE GRADING
PLAN

SHEET NUMBER:

C2

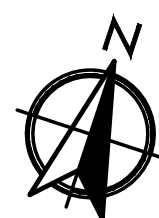
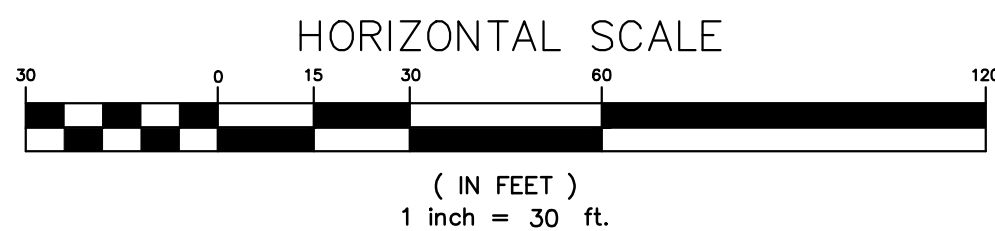
STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS.
2. INSTALLATION OF CONSTRUCTION ENTRANCE.
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9. FINAL GRADING.
10. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
11. REMOVAL OF EROSION AND SEDIMENT CONTROL ITEMS.



1 EROSION AND SEDIMENT CONTROL PLAN

C3 SCALE: 1" = 30'



KEY NOTES:

- E1 LIMITS OF TEMPORARY EROSION CONTROL FENCE, REFER TO DETAIL 2/C3
- E2 INSTALL TEMPORARY CONSTRUCTION ENTRANCE. REFER TO DETAIL 3/C3
- E3 LOCATION OF 10'x10' CONCRETE WASHOUT AREA. REFER TO DETAIL 7/C4.
- E4 LOCATION OF PORTA-POTTY. STAKE FIRMLY TO THE GROUND.
- E5 INSTALL INLET PROTECTION. REFER TO DETAIL 8/C4.

CAUTION:

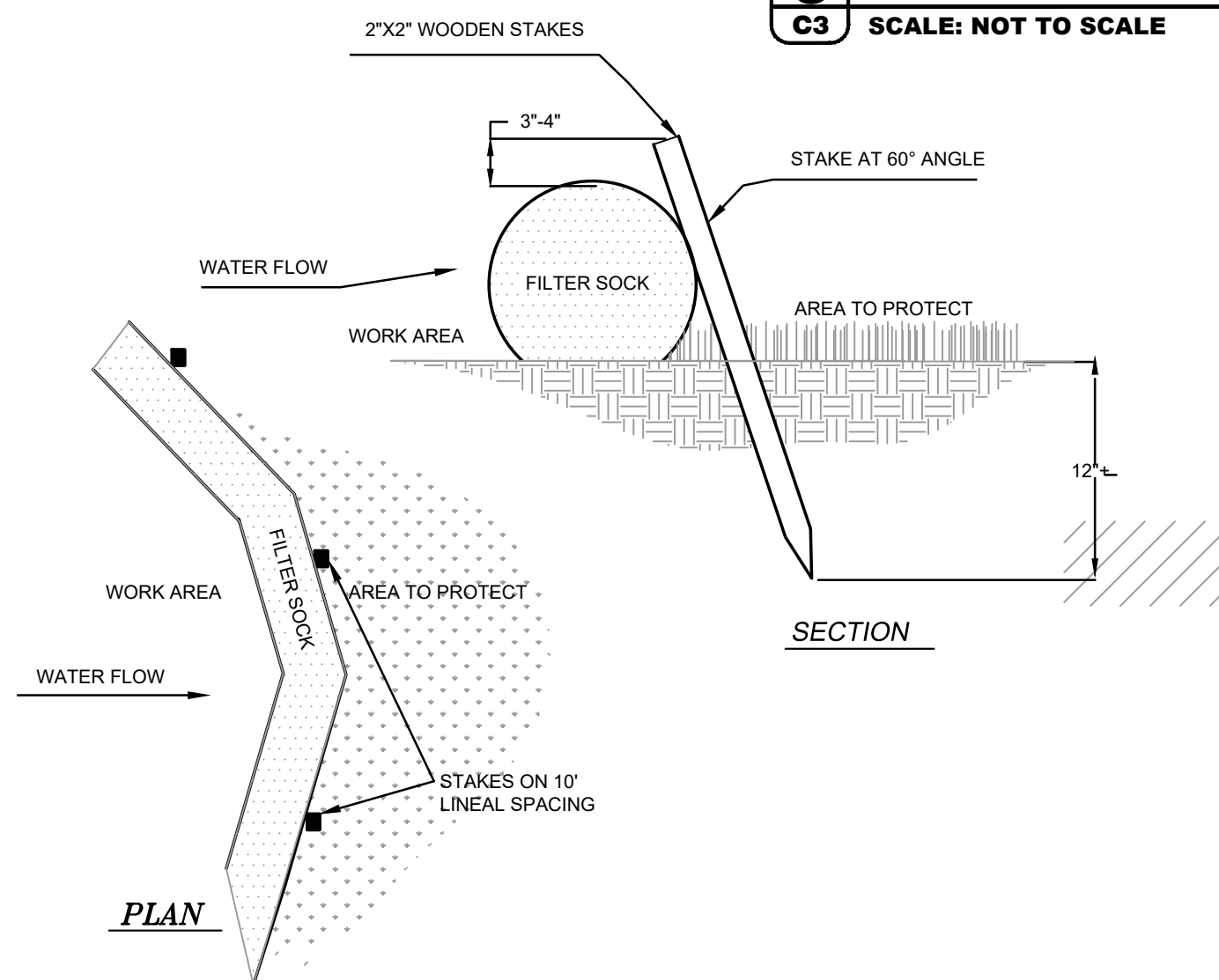
EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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2 8" COMPOST FILTER SOCKS

C3 SCALE: NOT TO SCALE

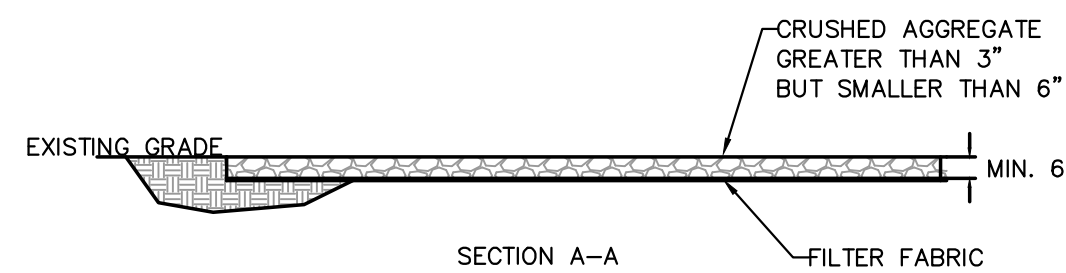
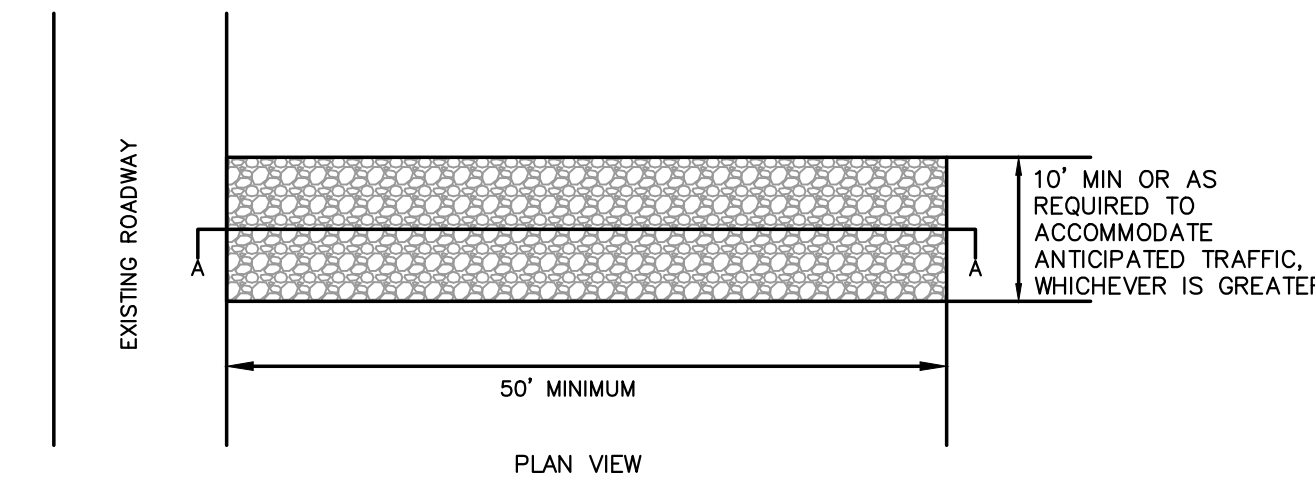


SAFETY NOTES:

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

RIP-RAP NOTE:

HAND PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 30-150 POUNDS EACH, AND AT LEAST 60 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. STONES SHALL BE A MINIMUM OF 6\" IN DIAMETER AND PLACED A MINIMUM OF 18\" BELOW FINISH GRADE.



- NOTES:
1. AVOID PLACING EXITS IN AN OUTFALL AREA OR OTHER LOW AREAS WHERE WATER PONDS OR FLOWS.
 2. A CULVERT SHALL BE INSTALLED IF EXIT CROSSES A DITCH.
 3. ROCK APRON INSTALLATION SHALL BE WIDE ENOUGH TO ACCOMMODATE TURNING VEHICLES.
 4. ADD NEW ROCK OR RAKE EXISTING ROCK WHEN VOIDS FILL WITH SEDIMENT.
 5. ANY MUD, ROCK OR DEBRIS TRACKED ONTO PAVED SURFACES AND ACCUMULATED IN CURBS SHALL BE REMOVED IMMEDIATELY USING A SWEEPER, SHOVEL, ETC.
 6. REMOVE EXIT WHEN VEHICLES AND EQUIPMENT WILL NO LONGER ACCESS UNPAVED AREAS.

3 CONSTRUCTION EGRESS

C3 SCALE: NOT TO SCALE

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.

---1235---	EXISTING GRADE LINES
—1235—	PROPOSED NEW GRADE LINES
[Symbol]	NEW BUILDING CONSTRUCTION
[Symbol]	DRAINAGE SWALE
---	GRADE BREAK
NEW SPOT ELEVATIONS LIST	
GRADE	NONE
SIDEWALK	SW
TOP OF WALL	TW
TOP OF CURB	TC
TOP OF PAVEMENT	PVT
NEW GRADE	GD
CONCRETE	CONC
EXISTING TOP OF CURB	ETC
EXISTING GRADE	EGD
EXISTING PAVEMENT	EPVT
EXISTING SIDEWALK	ESW
LADOT PAVEMENT (+3.5')	NPVT
FLOW LINE	FL
TOP OF BERM	TOP



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A-201005015

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Project Status
REVISION SCHEDULE

PROJECT DESCRIPTION:
PUBLIC WORKS FACILITY

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PROJECT ARCHITECT:
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CHECKED BY:

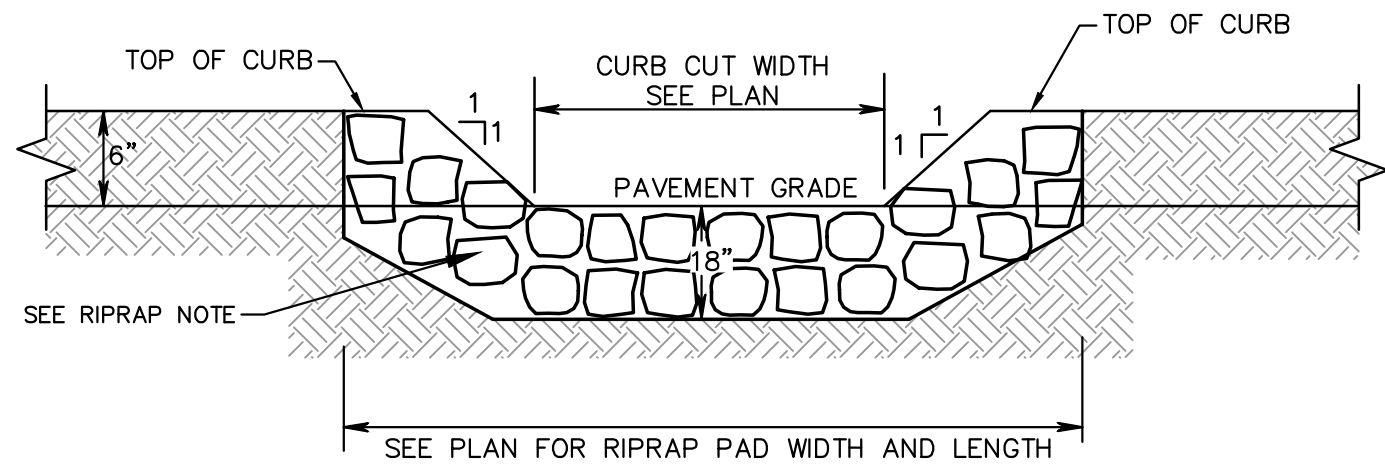
PROJECT NUMBER:
23-777

DATE:
06/29/2023

**EROSION AND
SEDIMENT
CONTROL PLAN**

SHEET NUMBER:

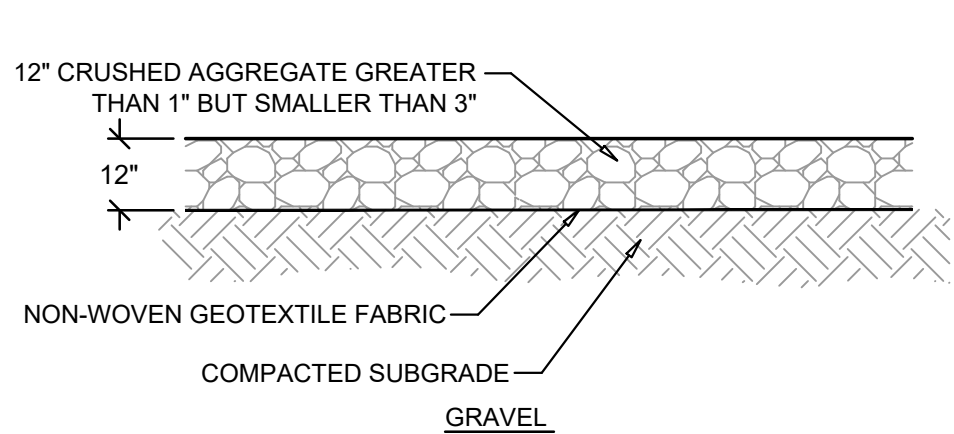
C3



SECTION AT CURB CUT

1 CURB CUT WITH RIPRAP PAD

C4 SCALE: NOT TO SCALE

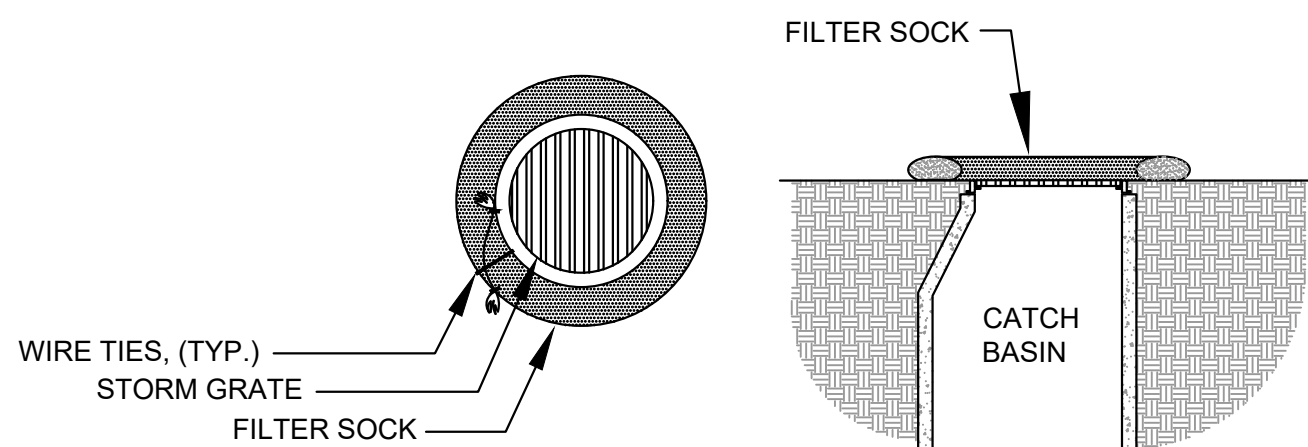


GENERAL NOTES:

1. SUBGRADE MUST BE STABLE AND HARD UNDER PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO INSTALLING BASE ROCK.
2. SOILS MUST BE PLACED AND COMPACTED TO A MINIMUM OF 98% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 WITH MAXIMUM LOOSE LIFT OF 8".
3. THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER OF ROCK MATERIAL SHALL NOT EXCEED 6 INCHES WITH EACH LIFT COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
4. CONTRACTOR TO MAINTAIN THICKNESS.
5. FINAL GRAVEL SURFACE WILL REQUIRE PERIODIC MAINTENANCE. DO NOT ALLOW RUTS TO BECOME GREATER THAN 1-1/2 INCHES. RE-GRADE AREAS, ADD GRAVEL AS NEEDED, THEN RECOMPACT AS ABOVE TO GET SMOOTH, STABLE SURFACE.

5 GRAVEL PARKING/DRIVE SECTION

C4 SCALE: NOT TO SCALE



DRAIN INLET PLAN

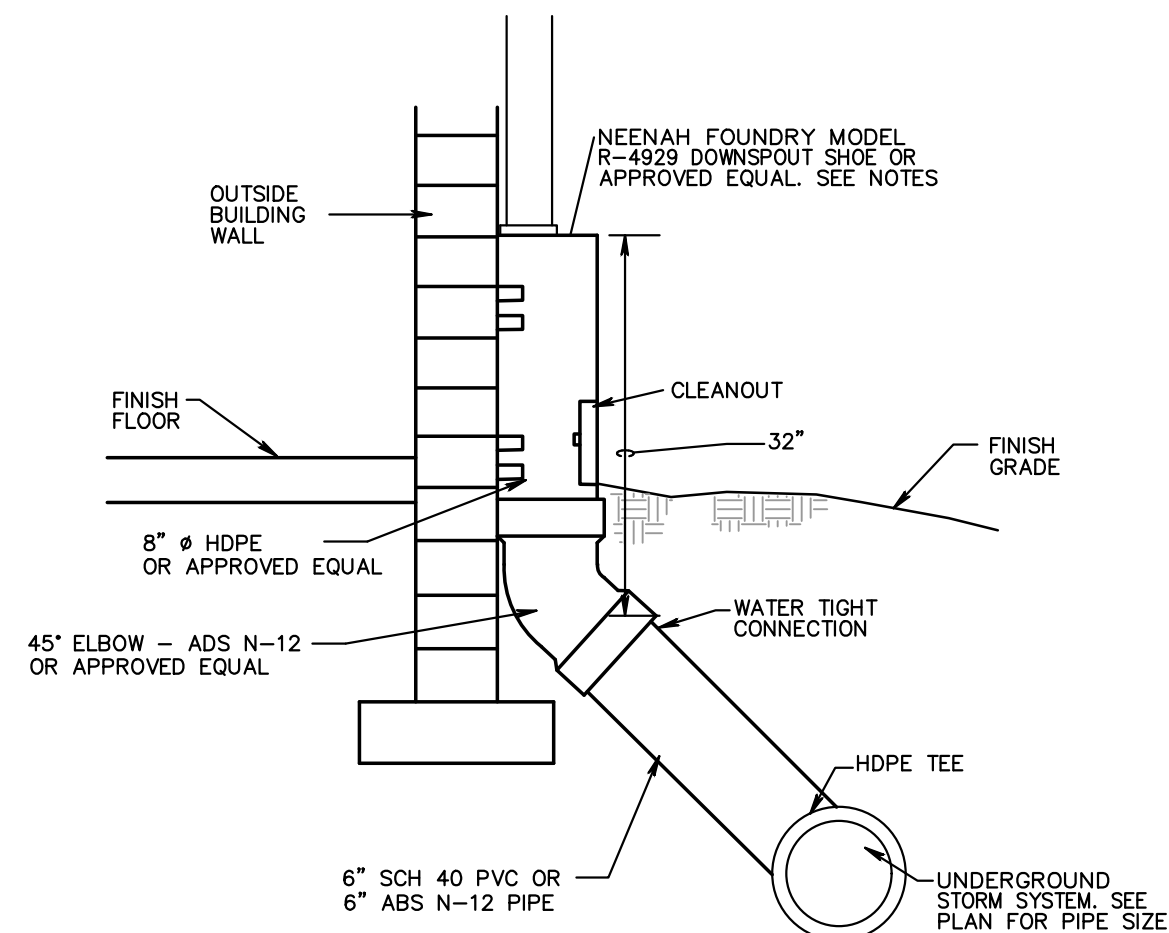
DRAIN INLET SECTION

8 INLET PROTECTION

C4 SCALE: NOT TO SCALE

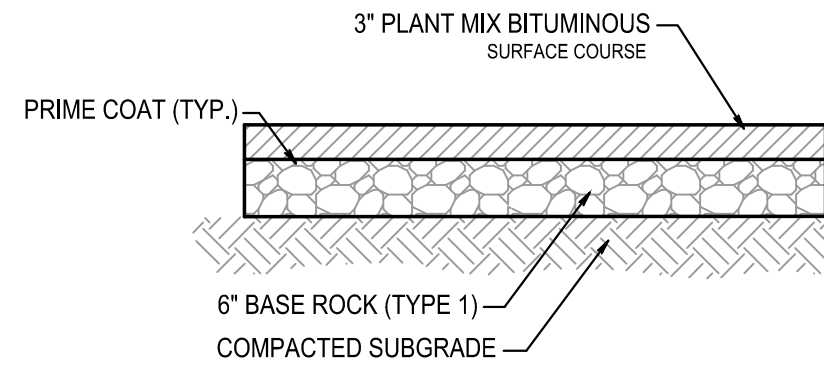
EROSION CONTROL & MAINTENANCE PLAN NOTES:

1. CONTRACTOR TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND/OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO ELIMINATE TO THE MAXIMUM EXTENT POSSIBLE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REMOVE SEDIMENT DEPOSITS AS NECESSARY AFTER EACH STORM TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. CARE NEEDS TO BE TAKEN TO AVOID UNDERMINING THE FENCE WHEN REMOVING SEDIMENT. SEDIMENT IS TO BE REAPPLIED TO THE SITE AND STABILIZED.
7. ALL GRASS SLOPES WHICH EXCEED 3:1 (H:V) AND SELECT PIPE OUTFALLS SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.
8. CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARD GENERAL CONDITIONS AND TECHNICAL SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION FOR CASSVILLE, MISSOURI.
9. APPLICABLE PERMITS MUST BE OBTAINED FROM THE CITY, STATE AND COUNTY PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH IN THE COURSE OF HIS OPERATIONS.
11. THE CONTRACTOR AND/OR BUILDER WILL KEEP THE SUBDIVISION NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. ALL CITY STREETS ADJACENT TO THE DEVELOPMENT SHALL BE KEPT CLEAR OF MUD, ROCK, DIRT, DEBRIS, PAPER AND WASTE MATERIAL AT ALL TIMES. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED.
12. IF ANY WORK OR ACCESS TO ANY ADJOINING PROPERTY IS DONE, IT IS THE FULL RESPONSIBILITY FOR THE APPLICANT/OWNER TO OBTAIN PROPER RELEASES FROM ADJOINING PROPERTY OWNERS AND ASSUME ALL LIABILITY FOR ACTION TAKEN DURING ALL CONSTRUCTION.
13. ALL DISTURBED AREAS ARE TO BE RESEEDING IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF CASSVILLE DESIGN STANDARDS FOR PUBLIC IMPROVEMENTS.
14. PROVIDE TEMPORARY EROSION CONTROL TO CONTAIN ALL SOILS ON SITE. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
15. THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS(PIPES) SHALL BE FUNCTIONING PRIOR TO STARTING ANY OTHER CONSTRUCTION ACTIVITIES. I.E., ONLY CONSTRUCTION ACTIVITIES REQUIRED TO INSTALL THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS(PIPES) ARE ALLOWED UNTIL THESE ITEMS ARE INSTALLED AND APPROVED.
16. CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN.
17. PRIOR TO CONSTRUCTION, THE OWNER SHALL CONVENE A PRE-CONSTRUCTION MEETING BETWEEN CASSVILLE, CONSULTING ENGINEER, CONTRACTOR(S) AND ANY OTHER AFFECTED PARTIES.
18. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
19. CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT.
20. CONTRACTOR TO TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS.
21. THE CONTRACTOR SHALL HAVE A SET OF PLANS FILED WITH CASSVILLE ON SITE. THE CONTRACTOR SHALL HAVE ON THE PROJECT AT ALL TIMES, AS HIS AGENT, A COMPETENT SUPERINTENDENT CAPABLE OF READING AND THOROUGHLY UNDERSTAND THE PLANS AND SPECIFICATIONS AND THOROUGHLY EXPERIENCE IN THE TYPE WORK BEING PERFORMED WHO SHALL RECEIVE INSTRUCTIONS FROM THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
22. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR OF ANY NEW SINKHOLES DISCOVERED DURING CONSTRUCTION.
23. TEMPORARY CONSTRUCTION ENTRANCE TO HAVE SHOT ROCK FOR ITS SURFACE.
24. THE INSTALLATION OF SILT FENCE FOR CONSTRUCTION IS TO BE INSTALLED BY THE CONTRACTOR AND IN PLACE BEFORE BEGINNING SITE CONSTRUCTION. SIMILAR DEVICES MAY BE USED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF THE ENGINEER. DEVICES TO BE IN PLACE AS SHOWN ON THE PLANS. ADJUSTMENT OF THE LOCATION BY THE CONTRACTOR MAY BE DONE TO MEET EXISTING FIELD CONDITIONS. ALL CONTROLS ARE TO BE LACED WITHIN OWNER'S PROPERTY. ACCUMULATED SEDIMENT IN BASINS WILL REQUIRE REMOVAL DURING CONSTRUCTION OR AFTER EACH RAIN EVENT AND AT THE END OF CONSTRUCTION. EACH BASIN SHALL BE CHECKED AFTER EACH RAIN EVENT. CONTRACTOR TO MINIMIZE THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES AT ANY ONE TIME AND TO PROMPTLY REVEGETATE (OR MECHANICALLY STABILIZE) ARE DISTURBED BY CONSTRUCTION ACTIVITY.
25. SILT FENCE SHALL BE PLACED AROUND ALL SOIL SPOIL PILES TO PREVENT EROSION.



2 DOWNSPOUT COLLECTOR

C4 SCALE: NOT TO SCALE

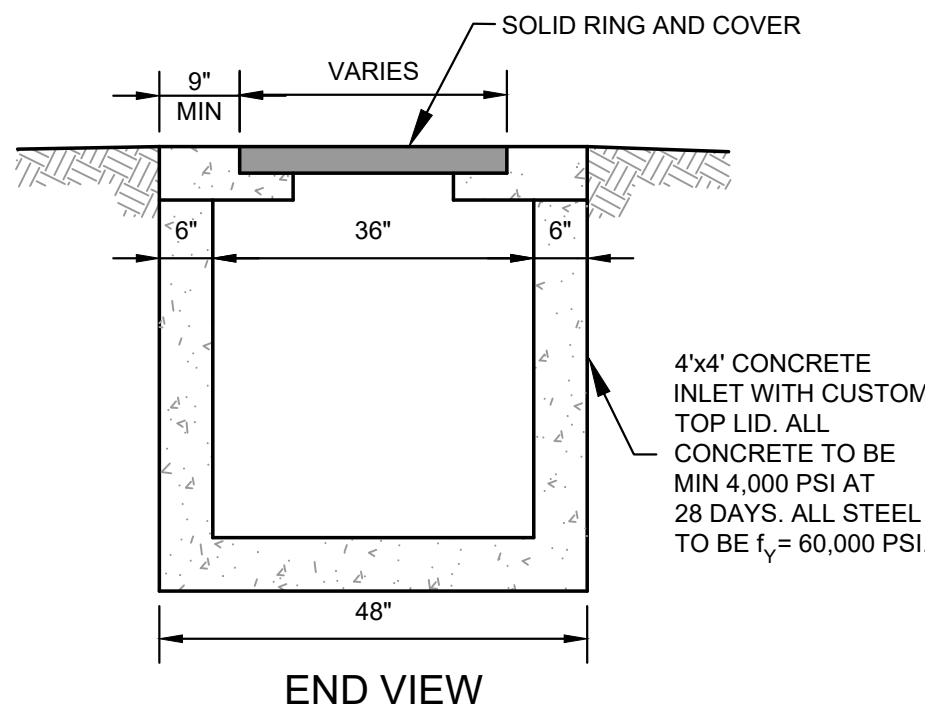


GENERAL NOTES:

1. A CBR VALUE OF 3.0 WAS USED IN THE DESIGN OF THE PAVEMENT SECTION. THE CONTRACTOR SHALL HIRE A QUALIFIED GEOTECHNICAL ENGINEER TO TEST THE SOILS TO CONFIRM A CBR-3 IS PRESENT FOR THE MATERIALS USED.
2. IMMEDIATELY PRIOR TO PAVING, THE PAVEMENT AREAS SHOULD BE ROUGH GRADED AND THEN EVALUATED BY A QUALIFIED GEOTECHNICAL ENGINEER. SUBGRADE MUST BE STABLE AND HARD UNDER PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO INSTALLING BASE ROCK. AREAS WHERE UNSTABLE OR UNSUITABLE CONDITIONS ARE FOUND SHOULD BE CUT OUT AND REPLACED WITH CONTROLLED COMPACTED FILL AND RE-EVALUATED.
3. SOILS MUST BE PLACED AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 WITH MAXIMUM LOOSE LIFT OF 8".
4. THE BASE ROCK SHOULD MEET SECTION 304 OF THE MDDOT STANDARD SPECIFICATIONS FOR AGGREGATE BASE COURSE.
5. THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER OF BASE ROCK MATERIAL SHALL NOT EXCEED 6 INCHES WITH EACH LIFT COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
6. THE PLANT MIX BITUMINOUS PAVEMENT SURFACE MIX SHOULD MEET THE REQUIREMENTS OF SECTION 401-TYPE BP-2 OF THE MDDOT STANDARD SPECIFICATIONS.
7. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT SURFACE MIX SHALL NOT EXCEED 2 INCHES FOR THE SURFACE COURSE WITH EACH LAYER COMPACTED TO 98% OF A LABORATORY SPECIMEN MADE IN THE PROPORTIONS OF THE JOB-MIX FORMULA IN ACCORDANCE WITH AASHTO T167 OR 96% OF A LABORATORY SPECIMEN MADE IN THE PROPORTIONS OF THE JOB-MIX FORMULA IN ACCORDANCE WITH AASHTO T245.
8. A MAINTENANCE PROGRAM THAT INCLUDES SURFACE SEALING, JOINT CLEANING AND SEALING AND TIMELY REPAIR OF DETERIORATED AREAS WILL HELP PRESERVE THE PAVEMENT LIFE.
9. CARE MUST BE TAKEN TO DEVELOP POSITIVE DRAINAGE ACROSS AND FROM AROUND THE PAVEMENT EDGES. WATER ALLOWED TO POND ON OR ADJACENT TO PAVEMENTS WOULD INCREASE THE POTENTIAL FOR MOISTURE INTRUSION INTO THE SUBGRADE SOILS AND COULD RESULT IN PREMATURE PAVEMENT FAILURE.

6 ASPHALT PAVEMENT SECTION

C4 SCALE: NOT TO SCALE

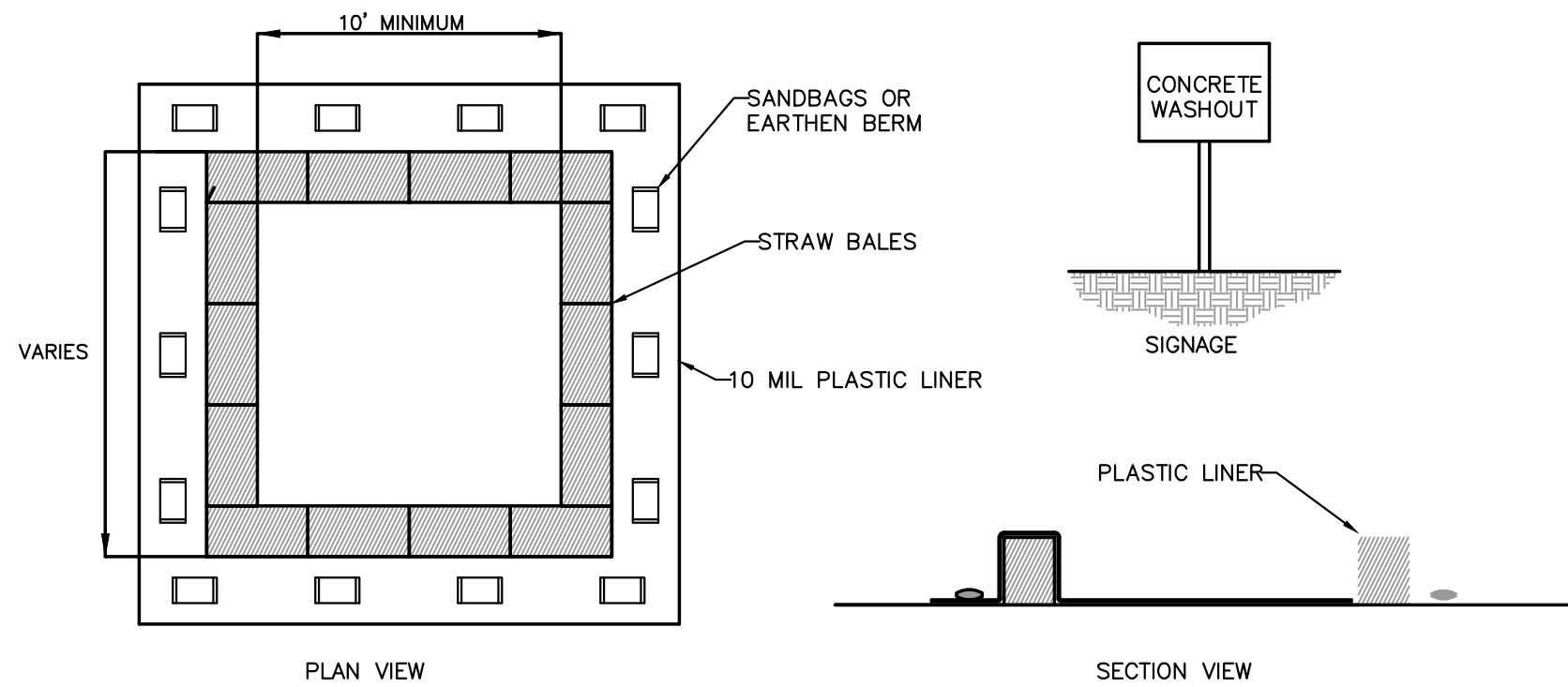


END VIEW

NOTE: MIN. #4 BARS @ 12" O.C. (ALL WALLS VERT, HOR, & SLAB)
PROVIDE BEDDING PER MANUFACTURER'S SPECIFICATION FOR APPLICATION.

3 4'x4' JUNCTION BOX

C4 SCALE: NOT TO SCALE

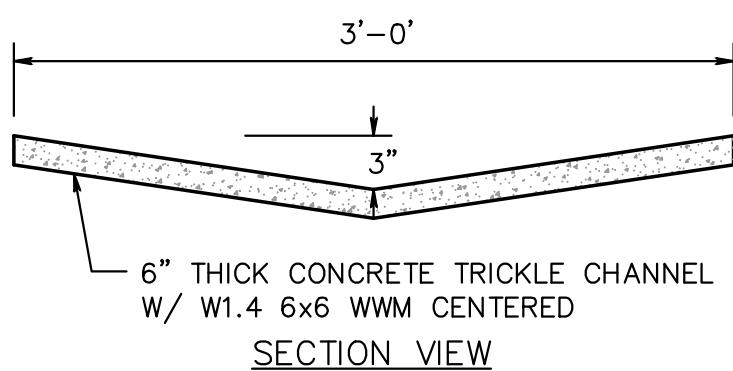


NOTES:

1. WASHOUT CONTAINMENT SHALL BE INSTALLED FOR DURATION OF CONCRETE WORK AND RETAIN CONCRETE AND OTHER WASHOUT LIQUIDS UNTIL EVAPORATION OR REMOVAL BY PUMP.
2. CONTAINMENT SHALL BE SIZED FOR EXPECTED WASHOUT VOLUMES.
3. AVOID PLACING NEAR STORM DRAINS, STREAMS, SINKHOLES, OUTFALLS OR OTHER LOW AREAS WHERE WATER PONDS OR FLOWS.
4. OTHER APPROVED LEAK-PROOF CONTAINMENT IS ACCEPTABLE.
5. TRAPS SHALL BE ROUTINELY MAINTAINED AT 75% CAPACITY AND REPLACED AS NECESSARY TO PERFORM.
6. THE WASHOUT PIT SHALL BE COVERED BEFORE PREDICTED RAIN EVENTS TO PREVENT OVERFLOW.
7. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

7 CONCRETE WASHOUT

C4 SCALE: NOT TO SCALE

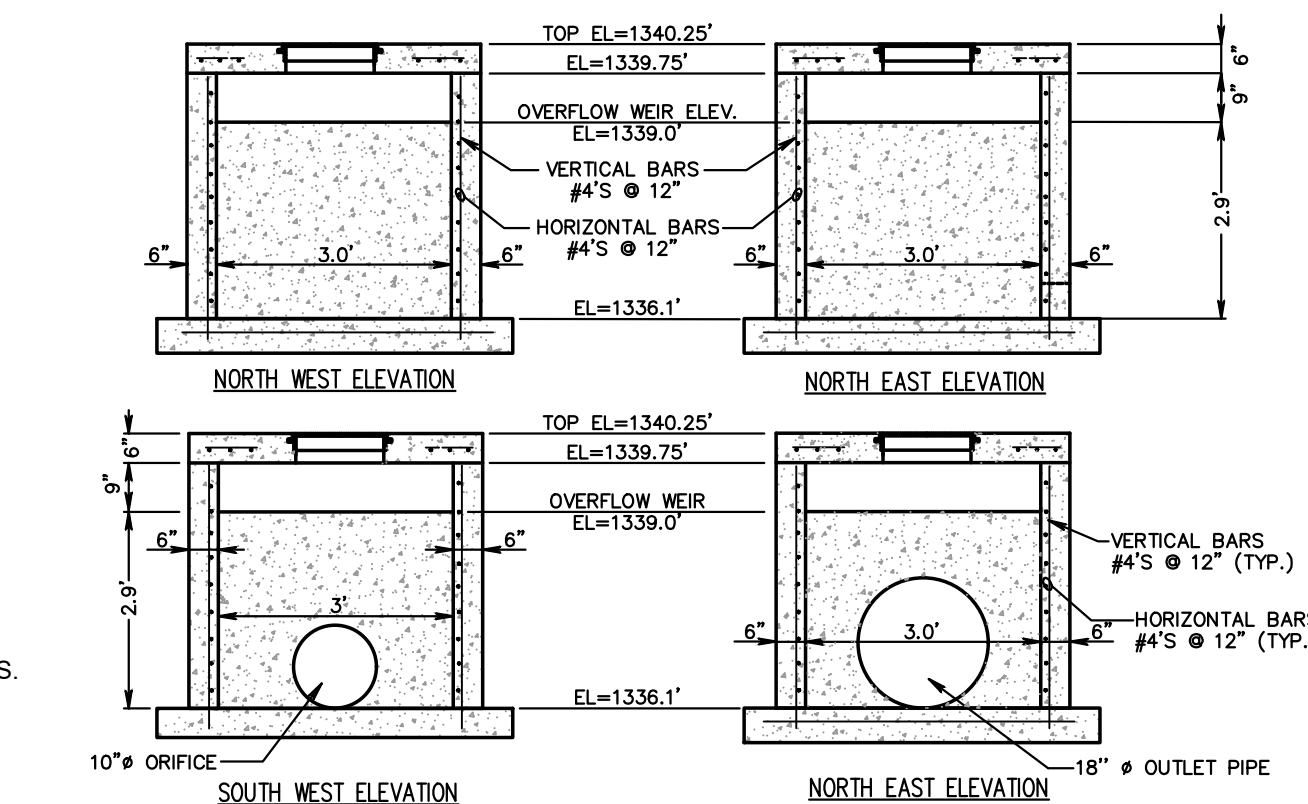
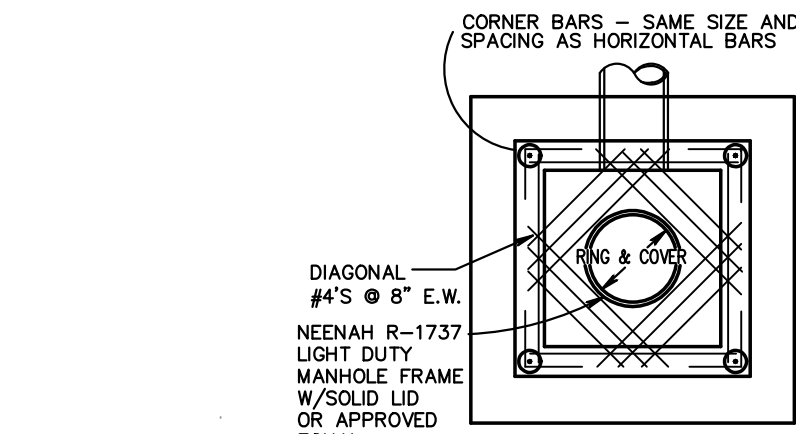


SECTION VIEW

NOTE: 1.5" DEPTH SAWCUT 10' C.C.

4 CONCRETE TRICKLE CHANNEL

C4 SCALE: NOT TO SCALE



GENERAL NOTES:

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER
2. ALL #4 & #5 REINFORCING BARS TO HAVE 1-1/2" COVER, LARGER SIZES TO HAVE 2" COVER.
3. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT THE CORNERS OF THE INLET.
4. ALL REINFORCING BARS TO BE GRADE 60.

9 DETENTION OUTLET STRUCTURE

C4 SCALE: NOT TO SCALE

SEEDING AND MULCHING NOTES

SEEDING

INSTALL UPSTREAM BMPs TO PROTECT AREA TO BE SEEDDED. COMPLETE GRADING AND REMOVE ALL DEBRIS LARGER THAN 1 INCH. LOOSEN COMPACTED SOILS TO A DEPTH OF 4 INCHES. GROOVE OR FURROW ON THE CONTOUR IF NECESSARY. SPREAD LOOSE TOPSOIL AT A DEPTH OF 4 INCHES. MIX SOIL AMENDMENTS (LIME, FERTILIZER, ETC.) INTO THE TOP 4 INCHES OF SOIL. PLANT SEED 1/4 TO 1/2 INCHES DEEP USING A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER. ROLL LIGHTLY TO FIRM SURFACE. COVER SEEDDED AREA WITH MULCH. INSTALL ADDITIONAL STABILIZATION (EROSION CONTROL BLANKETS, NETTING, BONDED FIBER MATRIX, ETC.) ON SLOPES STEEPER THAN 3:1 AND IN AREAS OF CONCENTRATED FLOW. WATER IMMEDIATELY-ENOUGH TO SOAK 4 INCHES INTO THE SOIL WITHOUT CAUSING RUNOFF.

TOPSOIL REQUIREMENTS

PERMANENT AND TEMPORARY SEEDING: LOOSEN COMPACTED SOILS TO A DEPTH OF 4 INCHES. IF RAINFALL CAUSES SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING. SLOPES STEEPER THAN 33 PERCENT (3:1) GRADE SHOULD BE GROOVED OR FURROWED ON THE CONTOUR BEFORE SEEDING. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE AND UNIFORM. PERMANENT SEEDING: A MINIMUM OF 4 INCHES OF LOOSE TOPSOIL SHOULD BE SPREAD ON AREAS TO BE SEEDDED.

LIME REQUIREMENTS

PERMANENT AND TEMPORARY SEEDING: LIME SHOULD BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH OF THE SOIL IS UNKNOWN, LIME SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT A RATE OF 1500 POUNDS EFFECTIVE NEUTRALIZING MATERIAL (ENM) PER ACRES. SOILS WITH A pH OF SIX OR HIGHER NEED NOT BE LIMED.

FERTILIZER REQUIREMENTS

PERMANENT SEEDING: FERTILIZER SHOULD BE APPLIED BASED ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE A 13-13-13 GRADE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT THE RATE OF 500 POUNDS PER ACRE. TEMPORARY SEEDING: FERTILIZER SHOULD BE APPLIED BASED ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE, A 10-10-10 GRADE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT THE RATE OF 200 POUNDS PER ACRE.

SEED REQUIREMENTS

PERMANENT SEEDING: SEED MIX SHALL CONSIST OF NINETY PERCENT (90%) TALL FESCUE AND TEN PERCENT (10%) ANNUAL RYEGRASS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 400 POUNDS PER ACRE. TEMPORARY SEEDING: SEED MIX SHALL CONSIST OF ANY COMBINATION OF TALL FESCUE, ANNUAL RYEGRASS, SUDAN, MILLET, WHEAT OR OATS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 200 POUNDS PER ACRE. DORMANT SEASON SEEDING: SEED MIX SHALL CONSIST OF 80 PERCENT (80%) TALL FESCUE, TEN PERCENT (10%) ANNUAL RYEGRASS AND TEN PERCENT (10%) SPRING OATS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 600 POUNDS PER ACRE.

MULCH REQUIREMENTS

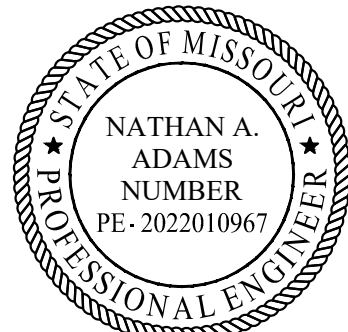
PERMANENT AND TEMPORARY SEEDING: WHERE SLOPES ARE LESS THAN 25 PERCENT (4:1) GRADE, CEREAL GRAIN MULCH IS REQUIRED AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET (4,500 LBS/ACRE). CEREAL GRAIN MULCH SHALL MEET THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI STATE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR TYPE I MULCH. WHERE SLOPES ARE 25 PERCENT (4:1) OR GREATER GRADE, TYPE 3 MULCH (HYDROMULCH) MEETING THE REQUIREMENTS OF SECTION 802 OF THE STATE SPECIFICATIONS SHALL BE USED. TYPE 3 MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2,000 LBS/ACRE.

DATES FOR SEEDING

PERMANENT SEEDING: MARCH 1 TO JUNE 1 AND AUGUST 15 TO NOVEMBER 1
TEMPORARY SEEDING: CAN OCCUR DURING ANY SEASON, HOWEVER WINTER IS THE LEAST TOLERANT.
DORMANT SEASON SEEDING: DECEMBER 15 TO FEBRUARY 29

HYDROSEEDING

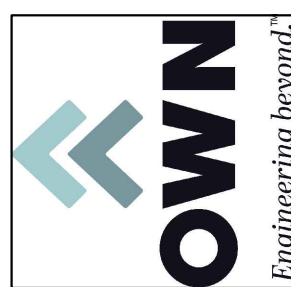
TO SELECT APPROPRIATE HYDROSEEDING MIXTURES, AN EVALUATION OF SITE CONDITIONS SHALL BE PERFORMED WITH RESPECT TO: SOIL CONDITIONS, SITE TOPOGRAPHY, SEASON AND CLIMATE, VEGETATION TYPES, MAINTENANCE REQUIREMENTS, SENSITIVE ADJACENT AREAS, WATER AVAILABILITY, AND PLANS FOR PERMANENT VEGETATION. HYDROSEEDING CAN BE ACCOMPLISHED USING A MULTIPLE-STEP OR ONE-STEP PROCESS. THE MULTIPLE-STEP PROCESS ENSURES MAXIMUM DIRECT CONTACT OF THE SEEDS TO SOIL. WHEN THE ONE-STEP PROCESS IS USED TO APPLY THE MIXTURE OF SEED, FIBER, ETC., THE SEED RATE SHALL BE INCREASED TO COMPENSATE FOR ALL SEEDS NOT HAVING DIRECT CONTACT WITH THE SOIL. FOLLOW-UP APPLICATIONS SHALL BE MADE AS NEEDED TO COVER WEAK SPOTS.



06/29/2023

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Project Status

REVISION SCHEDULE

PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:

PROJECT NUMBER:
23-777

DATE:
06/29/2023

SITE DETAILS

SHEET NUMBER:

C4

UTILITY NOTES:

1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

UTILITY GENERAL NOTES:

1. WATER LINES SHALL HAVE A MIN. 10 FEET HORIZONTAL CLEARANCE AND 18 INCHES VERTICAL CLEARANCE (MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE) FROM ALL SANITARY AND STORM SEWER LINES.
2. WATER LINES SHALL HAVE A MINIMUM OF 42 INCHES OF COVER, UNLESS OTHERWISE NOTED, MEASURED FROM THE TOP OF FINISHED GROUND TO THE TOP OF PIPE.
3. THERE SHALL BE A MINIMUM OF 18 INCHES CLEARANCE, MEASURED FROM THE BOTTOM OF ANY STORMWATER PIPE TO THE TOP OF WATER LINES AT ALL CROSSINGS.
4. AT WATER AND SANITARY SEWER CROSSINGS, THE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
5. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
6. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
7. NOTICE TO CONTRACTOR PRIOR TO INSTALLATION OF WATER LINE, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND ANDERSON ENGINEERING OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
8. COORDINATE ALL CONSTRUCTION WITH THE CITY OF CASSVILLE. ALL SANITARY SEWER AND WATER LINE CONSTRUCTION MUST COMPLY WITH THE CITY OF CASSVILLE, MO STANDARDS.
9. CONTRACTOR TO PROVIDE SANITARY SEWER CLEANOUTS EVERY 50' TO ALLOW ACCESS FOR CLEANING.

GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- C. FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- D. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

SANITARY SEWER
TOP-1341.4
FL-1334.5 IN NW.
FL-1334.4 OUT SE.

SAFETY NOTES:

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

GENERAL NOTES:

1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7463.
2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS.
5. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
6. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
7. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL.
8. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
9. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.
11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.

KEY NOTES:

- U1 PROPOSED SANITARY SEWER SERVICE. REFER TO PLUMBING PLAN FOR CONTINUATION. APPROX. ELEVATION = 1343.5' (ASSUMED).
- U2 6"Ø SDR-35 PVC SANITARY SEWER SERVICE @ MIN. 1% SLOPE.
- U3 INSTALL DOUBLE SWEEP SANITARY SEWER CLEANOUT. REFER TO DETAIL 2/C6.
- U4 NEW SANITARY SEWER CONNECTION TO EXISTING MAIN UPSTREAM OF EXISTING MANHOLE @ INV = 1334.6'. CONTRACTOR SHALL EXPOSE MAIN, CITY WILL PROVIDE AND INSTALL A SERVICE SADDLE. CONTRACTOR SHALL VERIFY LOCATION & ELEVATION OF EXISTING MAIN PRIOR TO CONSTRUCTION.
- U5 PROPOSED DOMESTIC WATER SERVICE. REFER TO PLUMBING PLAN FOR CONTINUATION.
- U6 1"Ø DOMESTIC WATER SERVICE PER CITY STANDARDS. CONTRACTOR SHALL CONFIRM ROUTE WITH OWNER & UTILITY COMPANY.
- U7 CITY TO INSTALL NEW 1"Ø DOMESTIC WATER METER ASSEMBLY AT NO COST TO THE CONTRACTOR.
- U8 NEW DOMESTIC WATER SERVICE CONNECTION. CONTRACTOR SHALL CONFIRM ROUTE & TAP REQUIREMENTS WITH OWNER & UTILITY COMPANY.
- U9 NEW GAS METER & SERVICE BY GAS COMPANY. REFER TO PLUMBING PLAN FOR CONTINUATION.
- U10 NEW GAS SERVICE. COORDINATE WITH GAS COMPANY TO CONFIRM ROUTE & TAP REQUIREMENTS.
- U11 NEW GAS SERVICE CONNECTION TO EXISTING GAS MAIN. CONTRACTOR SHALL CONFIRM ROUTE & TAP REQUIREMENTS WITH GAS COMPANY.
- U12 CAUTION!!! UTILITY CROSSING.
- U13 GENERATOR. REFER TO MEP PLANS FOR ADDITIONAL DETAIL.
- U14 PROPOSED LOCATION OF NEW ELECTRICAL TRANSFORMER. REFER TO ELECTRICAL PLAN FOR DETAILS.
- U15 INSTALL ELECTRICAL SERVICE. REFER TO ELECTRIC POWER PLAN PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE WITH CITY UTILITIES TO CONFIRM LOCATION AND REQUIREMENTS.
- U16 INSTALL UNDERGROUND ELECTRIC SERVICE.
- U17 NO LONGER UTILIZED.
- U18 INSTALL BLOWOFF ASSEMBLY. REFER TO DETAIL 3/C6.
- U19 OIL INTERCEPTOR, REFER TO WASTE AND VENT PIPING PLAN FOR LOCATION AND CONTINUATION.
- U20 HVAC UNITS. REFER TO MEP PLAN FOR ADDITIONAL DETAIL.
- U21 CONCRETE UTILITY PAD. REFER TO MEP AND PAGE C1 FOR ADDITIONAL DETAILS.

EXISTING CONDITIONS NOTES:

1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

UTILITIES INFORMATION

WATER & SANITARY SEWER: CITY OF CASSVILLE
7TH & MILL ST.
CASSVILLE, MO 65625
(417) 847-4441

GAS: MISSOURI GAS ENERGY/SPIRE
(800) 582-1234

ELECTRIC: BARRY ELECTRIC
(417) 847-2131

CONTRACTOR CAUTION!! VERIFY SEWER LINE ELEVATION

BEFORE STARTING ANY BUILDING PAD GRADING AND PLUMBING WORK THE CONTRACTOR SHALL FIELD VERIFY LOCATION, MATERIAL CONDITION, ACCESSIBILITY (INCLUDING STATE HIGHWAY OR OTHER RIGHTS-OF-WAY) AND WORKABLE FLOW LINE ELEVATION OF THE EXISTING SANITARY SEWER SERVICE LINE OR MAIN.

IF A WORKABLE FLOW LINE HAS NOT BEEN ESTABLISHED AT THE TIME OF FINAL SANITARY SEWER SERVICE CONNECTION, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF A NEW GRINDER PUMP SYSTEM TO MEET OWNER AND LOCAL REQUIREMENTS.

SPECIAL NOTE:

CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURE REQUIRED BY UTILITY COMPANIES.

CAUTION:

INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SPECIAL NOTE:

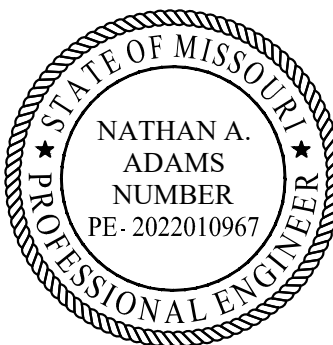
FIELD VERIFY SANITARY SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

SPECIAL NOTE:

ANY BELOW-GRADE UTILITIES ENTERING THE BUILDING SHOULD HAVE CLAY STOPS PLACED AROUND THE UTILITY TO REDUCE WATER IN THE UTILITY TRENCH BACKFILL FROM ENTERING BELOW THE FOOTING AND/OR SLAB CAUSING SWELLING.

SPECIAL NOTE:

PRIOR TO BEGINNING ANY SITE WORK & ORDERING OF MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL UTILITY & DRAINAGE CONNECTIONS TO EXISTING SYSTEMS BY POT HOLLING AND SHALL NOTIFY ENGINEER OF NEEDED CHANGES. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL REVISION COSTS AND DELAYS.



06/29/2023

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COA#000062
Engineer PEP 202010987
Project No. 22SP10063
FORMERLY ANDERSON ENGINEERING



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Project Status

REVISION SCHEDULE

PROJECT DESCRIPTION

PUBLIC WORKS FACILITY

2200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:

PROJECT NUMBER:
23-777

DATE:
06/29/2023

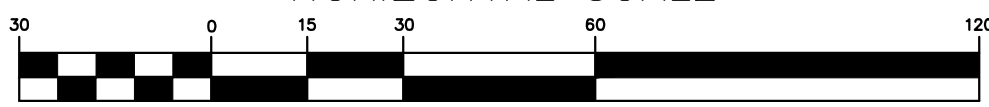
SITE UTILITY
PLAN

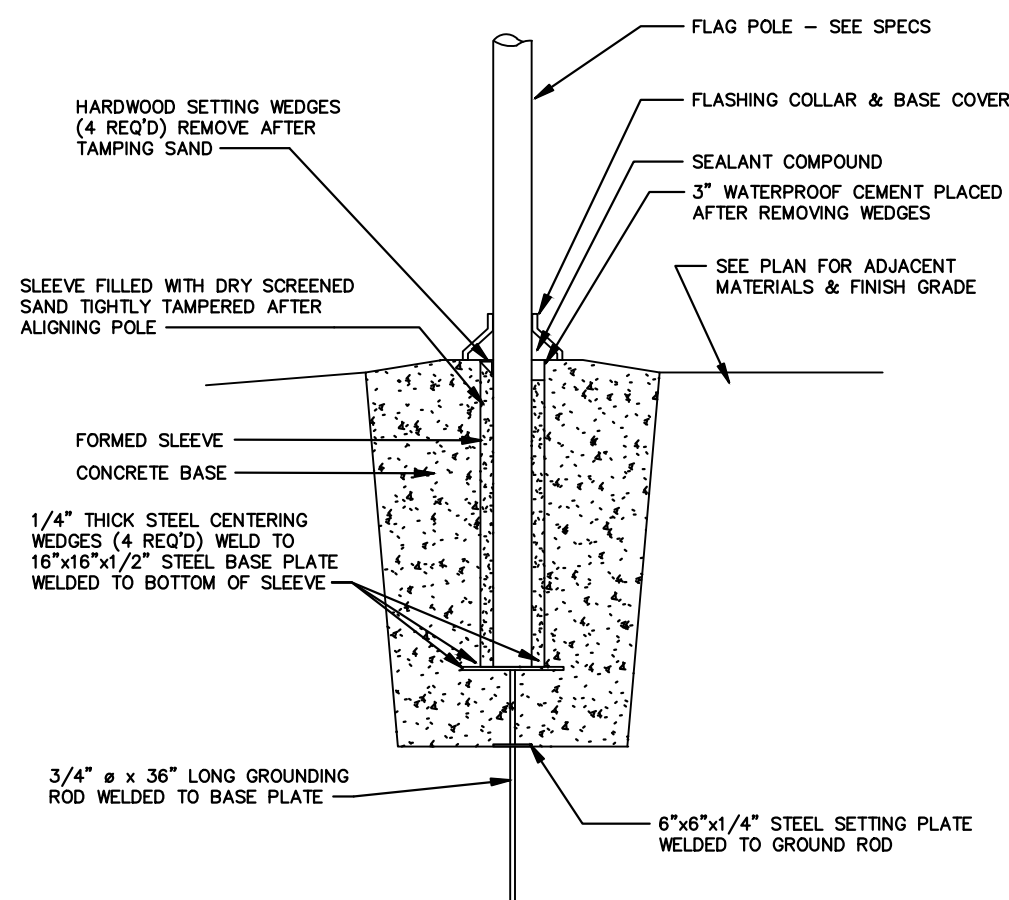
SHEET NUMBER:

C5

1 SITE UTILITY PLAN

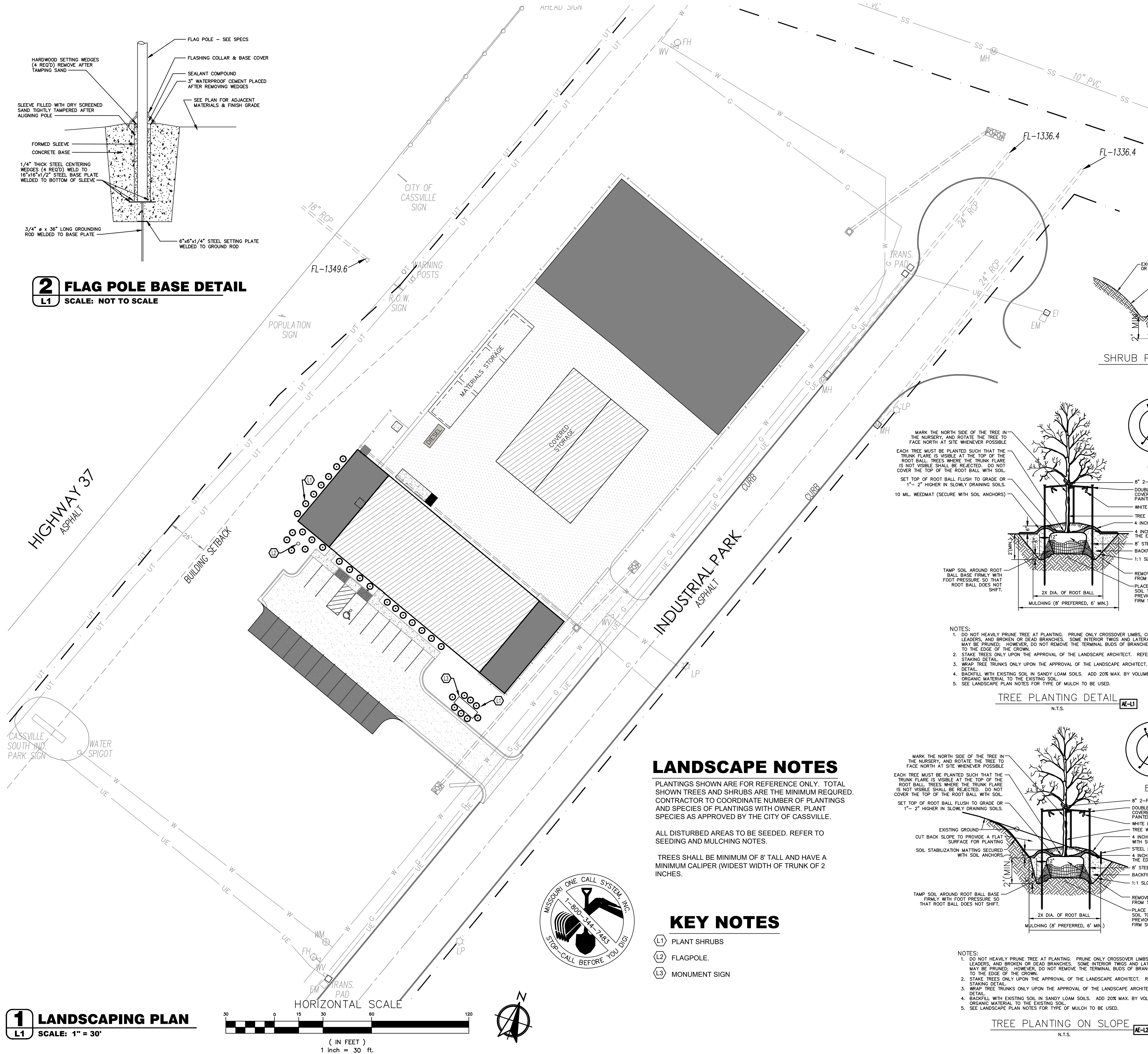
C5 SCALE: 1" = 30'





2 FLAG POLE BASE DETAIL

L1 SCALE: NOT TO SCALE



LANDSCAPE NOTES

PLANTINGS SHOWN ARE FOR REFERENCE ONLY. TOTAL SHOWN TREES AND SHRUBS ARE THE MINIMUM REQUIRED. CONTRACTOR TO COORDINATE NUMBER OF PLANTINGS AND SPECIES OF PLANTINGS WITH OWNER. PLANT SPECIES AS APPROVED BY THE CITY OF CASSVILLE.

ALL DISTURBED AREAS TO BE SEEDED. REFER TO SEEDING AND MULCHING NOTES.

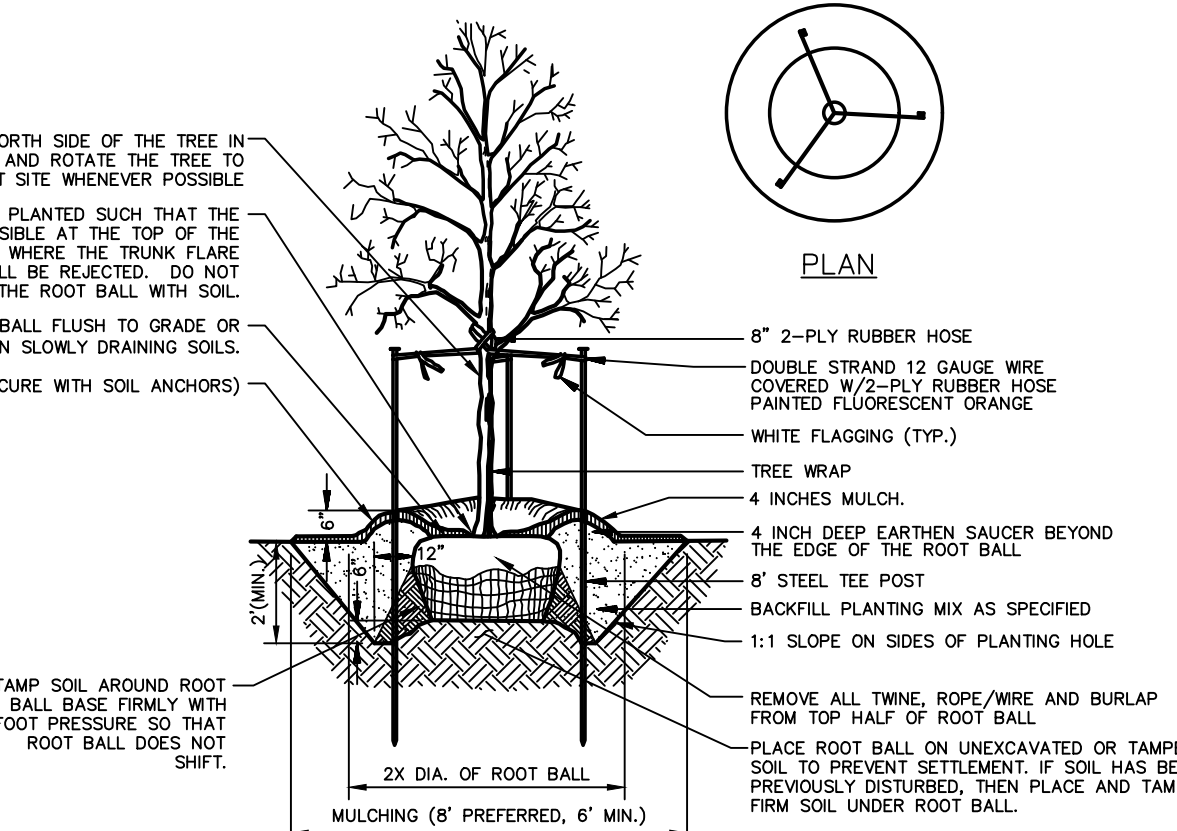
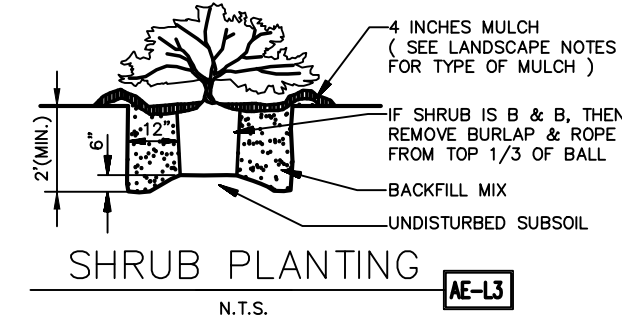
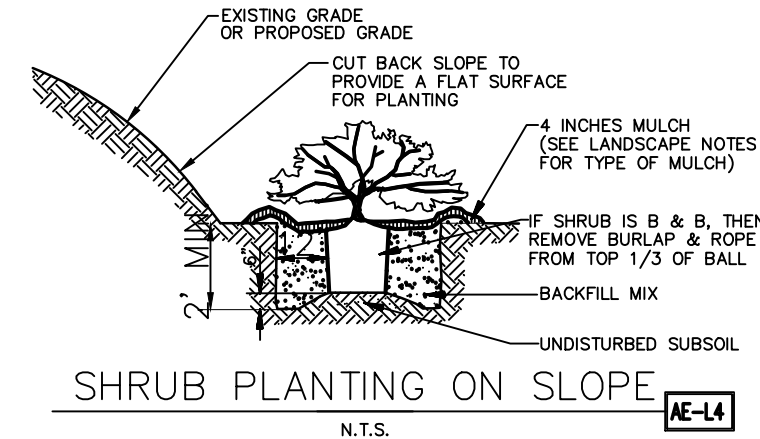
TREES SHALL BE MINIMUM OF 8' TALL AND HAVE A MINIMUM CALIPER (WIDEST WIDTH OF TRUNK OF 2 INCHES).

KEY NOTES

- L1 PLANT SHRUBS
- L2 FLAGPOLE.
- L3 MONUMENT SIGN

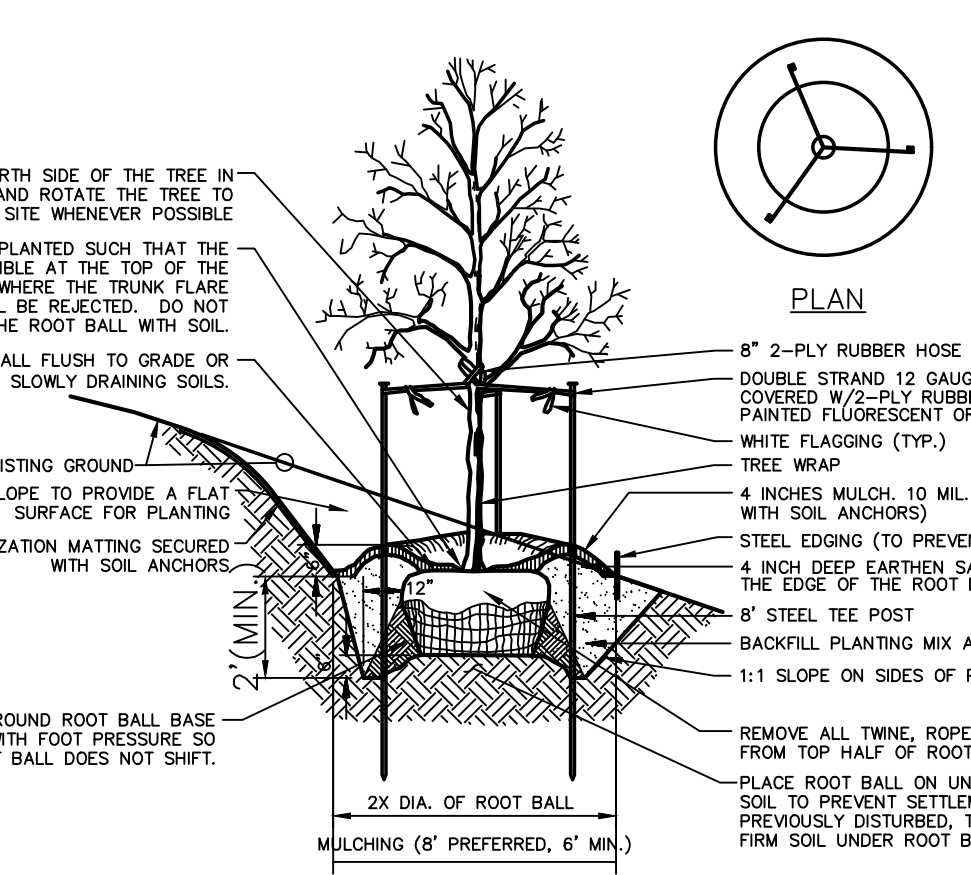
SHRUB SELECTION

- SHRUB, APPROVED SPECIES:
- SHRUB TYPE TBD BY OWNER



- NOTES:
- 1. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- 2. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. REFER TO [DTPP] FOR STAKING DETAIL.
- 3. WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. SEE WRAPPING DETAIL.
- 4. BACKFILL WITH EXISTING SOIL IN SANDY LOAM SOILS. ADD 20% MAX. BY VOLUME COMPOSTED ORGANIC MATERIAL TO THE EXISTING SOIL.
- 5. SEE LANDSCAPE PLAN NOTES FOR TYPE OF MULCH TO BE USED.

TREE PLANTING DETAIL



- NOTES:
- 1. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
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- 5. SEE LANDSCAPE PLAN NOTES FOR TYPE OF MULCH TO BE USED.

TREE PLANTING ON SLOPE

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.

	BASE BID BUILDING
	ASPHALT
	GRAVEL
	BID ALTERNATE



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Project Status
REVISION SCHEDULE

PUBLIC WORKS FACILITY

PROJECT ARCHITECT:
DRAWN BY:
CHECKED BY:

PROJECT NUMBER:
23-777

DATE:
06/29/2023

LANDSCAPING PLAN

SHEET NUMBER:

L1

ABBREVIATIONS	
1. A.R.=	ANCHOR ROD
2. A.C.I.=	AMERICAN CONCRETE INSTITUTE
3. AISI=	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
4. AISI=	AMERICAN IRON AND STEEL INSTITUTE
5. ARCH=	ARCHITECTURE/ARCHITECT
6. ASTM=	AMERICAN SOCIETY FOR TESTING AND MATERIALS
7. A.W.=	AFTER WELDING
8. AWS=	AMERICAN WELDING SOCIETY
9. BAR=	REBAR
10. B.O.=	BOTTOM OF
11. B.O.A.=	BACK OF ANGLE
12. B.O.F.=	BOTTOM OF FOOTING
13. B.O.S.=	BOTTOM OF STEEL
14. BRG=	BEARING
15. BTM=	BOTTOM
16. CANT=	CANTILEVERED
17. C.I.P.=	CAST-IN-PLACE
18. C.J.P.=	COMPLETE JOINT PENETRATION WELD
19. CL=	CENTERLINE
20. CLR=	CLEAR
21. CMU=	CONCRETE MASONRY UNIT
22. COL=	COLUMN
23. CONC=	CONCRETE
24. CONN=	CONNECTION
25. CONT=	CONTINUOUS
26. D.B.=	DECK BEARING
27. D.B.A.=	DEFORMED BAR ANCHOR
28. D.E.=	DECK EDGE
29. DIA=	DIAMETER
30. DL=	DEAD LOAD
31. DTL=	DETAIL
32. DWG=	DRAWING
33. E=	EXISTING
34. EA=	EACH
35. EL=	EACH FACE
36. EL=	ELEVATION
37. EPS=	EXPANDED POLYSTYRENE
38. EQ=	EQUAL
39. EW=	EACH WAY
40. EXT=	EXTERNAL
41. F _c =	CONCRETE COMPRESSIVE STRENGTH
42. F.F.=	FINISHED FLOOR
43. FNR=	FINISH
44. F.O.W.=	FACE OF WALL
45. F.S.=	FACE SIDE
46. FTCP=	FIELD TIE
47. F.V.=	FIELD VERIFY
48. GA=	GAGE / GAUGE
49. GALV=	GALVANIZED
50. G.B.=	GRADE BEAM
51. G.C.=	GENERAL CONTRACTOR
52. H=	HIGH
53. H&L=	HIGH & LOW
54. H.A.S.=	HEADED ANCHOR STUD
55. HORIZ=	HORIZONTAL
56. IBC=	INTERNATIONAL BUILDING CODE
57. I.D.=	INSIDE DIAMETER
58. INF=	INFORMATION
59. INT=	INTERIOR
60. J.B.=	JOIST BEARING
61. J.B.E.=	JOIST BEARING ELEVATION
62. KIP=	KIPS PER SQUARE INCH
63. KSI=	KIPS PER SQUARE INCH
64. (L)=	LOW
65. L=	LENGTH
66. LB=	POUND
67. LGBF=	LIGHT-GAGE STEEL FRAMING
68. LL=	LEVEL
69. LLH=	LONG LEG HORIZONTAL
70. LLV=	LONG LEG VERTICAL
71. LPT=	LAYOUT POINT
72. LVL=	LAMINATED VENEER LUMBER
73. LW=	LIGHTWEIGHT
74. MAX=	MAXIMUM
75. MECH=	MECHANICAL
76. MEPL=	MECHANICAL ELECTRICAL, PLUMBING
77. MFR=	MANUFACTURER
78. MFR=	MANUFACTURER
79. MIL=	THOUSANDS OF AN INCH
80. MIN=	MINIMUM
81. MIS=C	MISCELLANEOUS
82. MTL=	METAL
83. N.I.C.=	NOT IN CONTRACT
84. N.S.=	NEAR SIDE
85. N.T.S.=	NOT TO SCALE
86. N.W.=	NORMAL WEIGHT
87. O.C.=	ON CENTER
88. O.D.=	OUTSIDE DIAMETER
89. OPP=	OPPOSITE / OPPOSITE HAND
90. PAF=	POWDER ACTUATED FASTENER
91. P.C.F.=	POUNDS PER CUBIC FOOT
92. PEMB=	PRE-ENGINEERED METAL BUILDING
93. PLF=	POUNDS PER LINEAR FOOT
94. PPT=	PRESERVATIVE PRESSURE TREATED
95. PSF=	POUNDS PER SQUARE FOOT
96. PSI=	POUNDS PER SQUARE INCH
97. PT=	POST TENSIONED
98. REINF=	REINFORCING
99. REQ=	REQUIRED
100. RTU=	ROOF TOP UNIT
101. S.C.=	SLIP CRITICAL
102. SCH=	STEEL
103. SDI=	STEEL DECK INSTITUTE
104. SIM=	SIMILAR
105. SJI=	STEEL JOIST INSTITUTE
106. SL=	SNOW LOAD
107. S.O.G.=	SLAB ON GRADE
108. SPEC=	SPECIFICATIONS
109. STD=	STANDARD
110. STL=	STEEL
111. T=	THICKNESS
112. T&B=	TOP AND BOTTOM
113. T.O.=	TOP OF
114. T.O.F.=	TOP OF FOOTING
115. T.O.P.=	TOP OF PEDESTAL
116. T.O.S.=	TOP OF STEEL
117. T.O.W.=	TOP OF WALL
118. TYP=	TYPICAL
119. UL=	ULTIMATE LOAD
120. U.N.O.=	UNLESS NOTED OTHERWISE
121. VERT=	VERTICAL
122. VLD=	VERTICAL LEG DOWN
123. W=	WIDTH
124. WL=	WIND LOAD
125. W.P.=	WORK POINT
126. WWF=	WELDED WIRE FABRIC
127. (#)=	QUANTITY

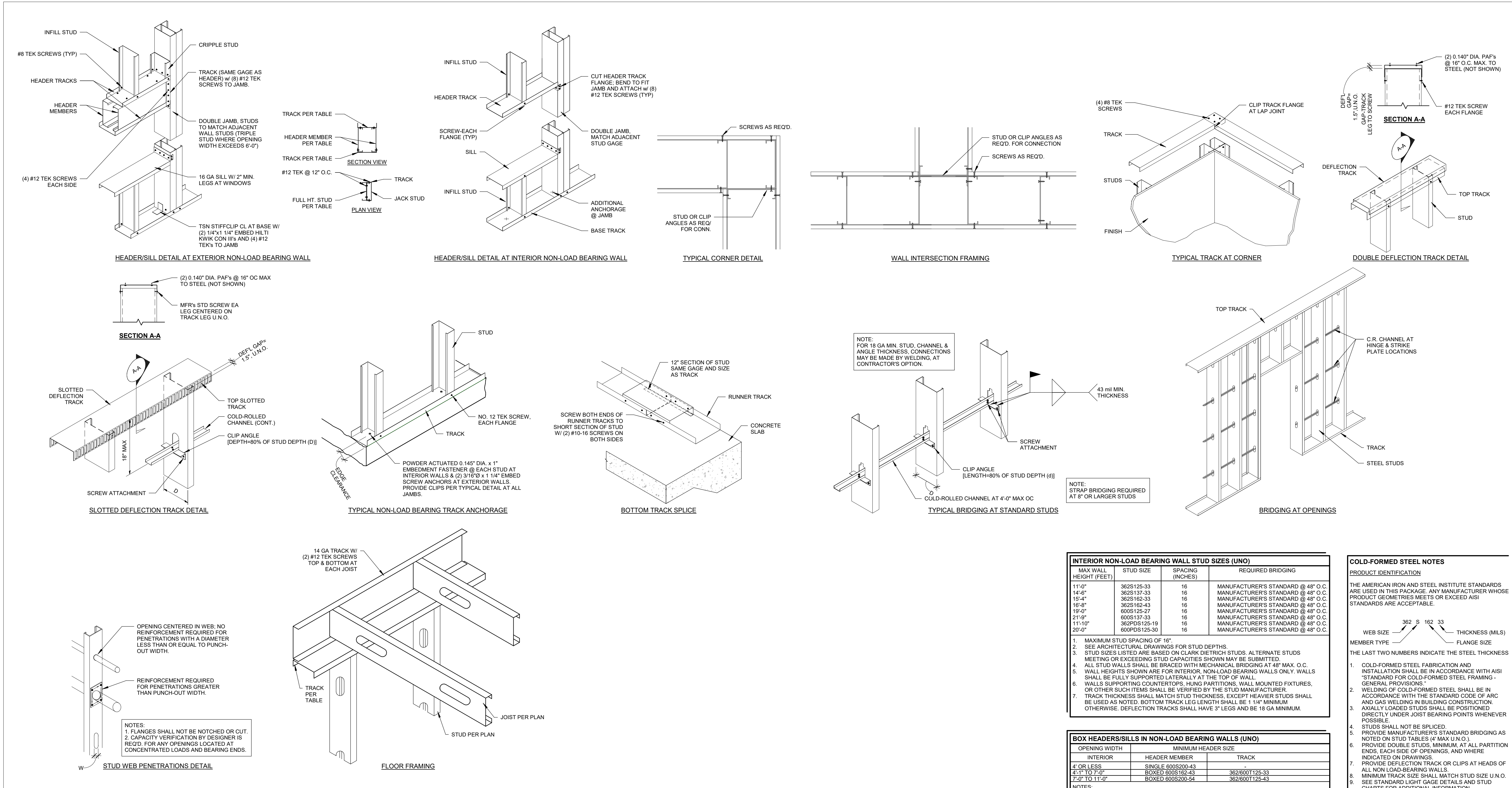
LOADING TABLE AND CODE INFORMATION				
			PUBLIC WORKS FACILITY	
1.	DESIGN CODE		IBC 2006	
RISK CATEGORY			II	
2.	DEAD LOADS			
A. TYPICAL ROOF DEAD LOAD			PER MFR.	
B. COLLATERAL ROOF DEAD LOAD			10 PSF	
C. MEZZANINE FLOOR DEAD LOAD			20 PSF	
3.	LIVE LOADS			
A. TYPICAL ROOF LIVE LOAD			20 PSF	
B. MEZZANINE FLOOR LIVE LOAD			50 PSF	
4.	SNOW LOAD			
A. FLAT ROOF SNOW LOAD (pf)			15 PSF	
B. GROUND SNOW LOAD (pg)			15 PSF	
C. EXPOSURE FACTOR (Ce)			0.9	
D. THERMAL FACTOR (Ct)			1.0	
E. IMPORTANCE FACTOR (Is)			1.0	
F. DRIFT			PER CODE	
5.	WIND LOAD DESIGN CRITERIA			
A. BASIC WIND SPEED			90 MPH	
B. EXPOSURE CATEGORY			C	
C. DIRECTIONALITY FACTOR (Kd)			0.85	
D. TOPOGRAPHIC FACTOR (Kzt)			1.0	
E. INTERNAL PRESSURE COEFFICIENT (GCpi)			+/- 0.18	
F. INTERIOR WALLS AND PARTITIONS			5 PSF	
6.	COMPONENTS AND CLADDING WIND PRESSURES			
A. a ⁺			7 FT	
B. ROOF UPLIFT PRESSURES				
EFFECTIVE WIND AREA (SQFT)		ZONE 1 PRESSURE (PSF)	ZONE 2 PRESSURE (PSF)	ZONE 3 PRESSURE (PSF)
10		20	33	49
20		19	29	41
50		18	25	29
100+		18	21	21
C. WALL OUTWARD PRESSURES				
	EFFECTIVE WIND AREA (SQFT)	ZONE 4 PRESSURE (PSF)	ZONE 5 PRESSURE (PSF)	
	10	21	26	
	20	20	24	
	50	19	22	
	100+	18	20	
7.	SEISMIC LOAD DESIGN CRITERIA			
A. SHORT PERIOD ACCELERATION (SS)			0.205	
B. LONG PERIOD ACCELERATION (S1)			0.092	
C. SITE CLASS			D	
D. SHORT PERIOD RESPONSE (SDS)			0.219	
E. LONG PERIOD RESPONSE (SD1)			0.147	
F. SEISMIC DESIGN CATEGORY			C	
G. IMPORTANCE FACTOR (Ie)			1.0	
H. ANALYSIS PROCEDURE			PER MFR.	
I. SEISMIC FORCE RESISTING SYSTEM			PER MFR.	
J. RESPONSE MODIFICATION FACTOR (R)			PER MFR.	
K. SYSTEM OVERSTRENGTH FACTOR (O)			PER MFR.	
L. DEFLECTION AMPLIFICATION FACTOR (Cd)			PER MFR.	
M. SEISMIC RESPONSE COEFFICIENT (CS)			PER MFR.	
N. SEISMIC BASE SHEAR (V)			PER MFR.	
8.	GEOTECHNICAL DESIGN PRESSURES			
A. SHALLOW FOOTING ALLOWABLE BEARING PRESSURE			1500 PSF	
B. GRADE BEAM FOUNDATION ALLOWABLE BEARING PRESSURE			1500 PSF	

MEANS AND METHODS	
1.	DESIGN LOADINGS AND STRUCTURAL ANALYSIS IS BASED ON CODE PRESCRIBED LOADS FOR THE COMPLETED STRUCTURE.
2.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION.
3.	THIS STRUCTURE IS DESIGNED TO BE STABLE AS A COMPLETE WHOLE. ANY AND ALL TEMPORARY BRACES AND SHORING REQUIRED TO RESIST ALL LOADS DURING CONSTRUCTION SHALL BE DESIGNED AND SUPPLIED BY THE CONTRACTOR.
4.	HEAVY LOADS THAT EXCEED 75% OF ALLOWABLE LIVE LOADS SHOWN ON THE PLANS, FOR TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS, OR OTHER LOADS NOT SHOWN IN THE CONTRACT DOCUMENTS, SHALL NOT BE PLACED OR SUPPORTED FROM ELEVATED STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

DEFERRED SUBMITTAL NOTES	
1.	THE FOLLOWING SUBMITTALS SHALL BE SUBMITTED FOR REVIEW AT A LATER DATE: PRE-ENGINEERED METAL BUILDING PACKAGE
2.	SUBMITTALS SHALL INCLUDE PLANS, DETAILS AND CALCULATIONS SEALED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

SYMBOL LEGEND	
TAG OR SYMBOL	DESCRIPTION
	FOOTING TYPE (SEE SCHEDULE)
	NORTH ARROW (COORDINATE EXACT DIRECTION W/ ARCH AND CIVIL DWGS)
	CENTERLINE
	KEYNOTE
	ELEVATION MARKER
	WELD SYMBOL
	PEDESTAL TAG
	REINFORCING BAR
	REVISION TAG
	BRACED BAY SYMBOL

CONCRETE NOTES	
1.	CONCRETE FOR FOUNDATIONS, FOOTINGS AND INTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS: • 28-DAY COMPRESSIVE STRENGTH: 3000 PSI • MAXIMUM WATER TO CEMENT RATIO: 0.52 • SLUMP: 4" ±1"
2.	CONCRETE FOR EXTERIOR USES, SIDEWALKS, AND EXTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS: • 28-DAY COMPRESSIVE STRENGTH: 4000 PSI • MAXIMUM WATER TO CEMENT RATIO: 0.45 • SLUMP: 4" ±1"
3.	AIR-ENTRAINMENT SHALL CONFORM TO ASTM C260.
4.	NO LIME SAND FINE AGGREGATE MAY BE USED IN CONCRETE EXPOSED TO WEATHER, VIEW, OR IN HORIZONTAL APPLICATIONS.
5.	ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
6.	WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP FABRIC ON SIDES AND ENDS. MAINTAIN MINIMUM 1" TO 2" BELOW TOP SURFACE OF CONCRETE. PROVIDE CHAIRS, BOLSTERS OR OTHER APPROVED MEANS TO PROPERLY LOCATE REINFORCING.
7.	IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADJUTIVE COMPLYING TO ASTM C494, TYPE A, D, E OR F SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX AT THE SITE. SLUMP FOR CONCRETE CONTAINING WATER-REDUCING OR HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 8" AFTER ADMIXTURE IS ADDED TO CONCRETE WITH A 2'-4" SLUMP.
8.	INTERIOR SLABS ON GRADE SHALL HAVE SMOOTH TROWELED FINISH AND EXTERIOR SLABS SHALL HAVE LIGHT BROOM FINISH. UNO. ALL SLABS SHALL HAVE A CURING COMPOUND COMPLYING WITH ASTM C689 APPLIED TO SURFACE. EXCEPTIONS ARE WHERE FLOOR FINISHES REQUIRE SCRATCH FINISH AND WHERE CURING COMPOUNDS ARE NOT COMPATIBLE WITH ADHESIVES, ETC.
9.	CONTRACTOR SHALL COORDINATE ALL CONCRETE SEALERS, CURING COMPOUNDS, ETC. TO ENSURE COMPATIBILITY WITH FLOORING ADHESIVES FOR FLOORING INDICATED IN THE FLOOR PLANS AND FLOOR FINISH PLANS AS APPLICABLE.
10.	TESTING OF FRESH CONCRETE SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER. TESTING SHALL INCLUDE: • SLUMP • AIR CONTENT • CONCRETE TEMPERATURE • 28 DAY COMPRESSIVE STRENGTH • NOTE ANY WATER OR ADMIXTURES ADDED ON-SITE
11.	REFER TO ASTM C172 AND C94. PERFORM ONE SLUMP AND ONE AIR CONTENT TEST FOR EACH DAYS POUR AND ADDITIONAL TESTS WHEN THE CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED IN THE OPINION OF THE INSPECTOR. REFER TO ASTM C143, C173 AND C201. PERFORM TEMPERATURE TESTS HOURLY WHEN THE AMBIENT AIR TEMPERATURE IS BELOW 40 DEGREES F OR ABOVE 80 DEGREES F AND ONE TEMPERATURE TEST FOR EACH SET OF SPECIMENS.
12.	HOURLY WHEN THE AMBIENT AIR TEMPERATURE IS BELOW 40 DEGREES F OR ABOVE 80 DEGREES F AND ONE TEMPERATURE TEST FOR EACH SET OF SPECIMENS. TEST FOR EACH 50 CUBIC YARD MORE THAN THE FIRST 25 CUBIC YARD. TEST ONE SPECIMEN AT 7 DAYS AND 2 SPECIMENS AT 28 DAYS. REFER TO ASTM C31 AND C39.
13.	WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER BARS SHALL BE PROVIDED CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNO.
14.	PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, UNO.
15.	PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
16.	UNLESS NOTED OTHERWISE, PROVIDE CONSTRUCTION JOINTS IN SLABS ON GRADE AT APPROXIMATELY 50 FEET IN EACH DIRECTION. PROVIDE CONTROL JOINTS AROUND PERIMETER OF BUILDING AND/OR UNDER THE SLAB-ON-GRADE SHALL

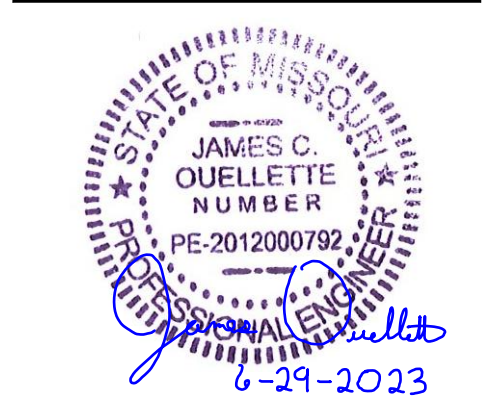


1 TYPICAL LIGHT GAGE FRAMING DETAILS



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PROJECT DESCRIPTION:
PUBLIC WORKS FACILITY
200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ENGINEER: JCO
DRAWN BY: CEK
CHECKED BY: JCO

PROJECT NUMBER:
23-777

DATE:
2023.06.29

GENERAL NOTES & DETAILS - LGMF

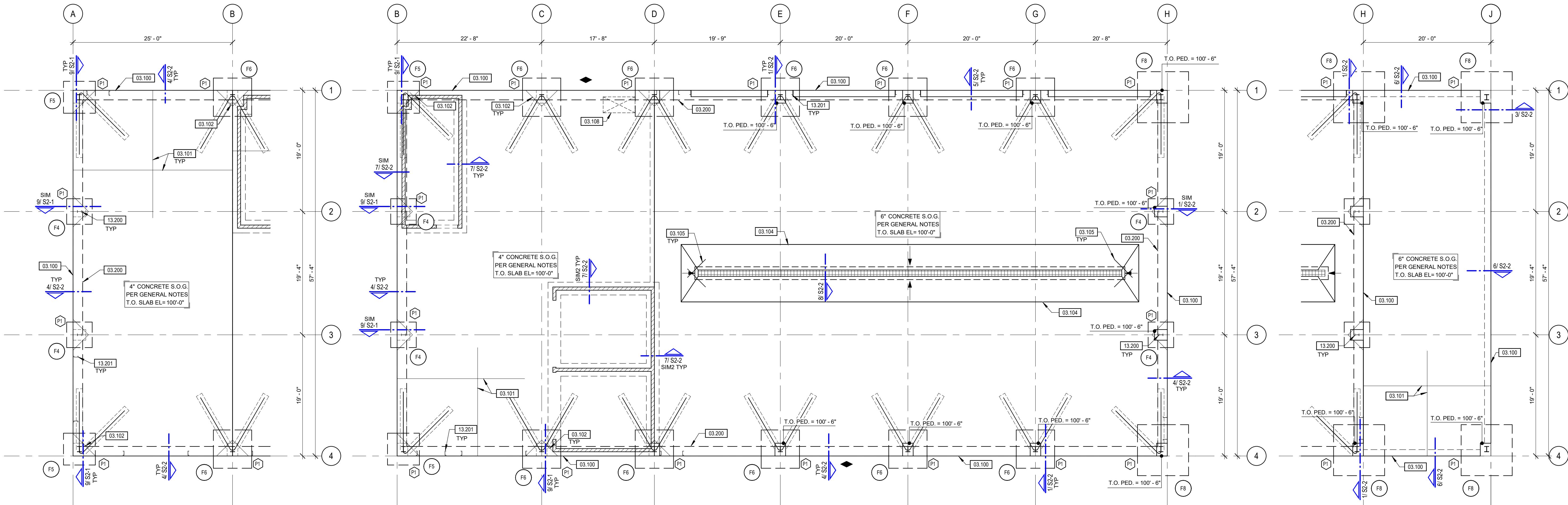
SHEET NUMBER:

S0-1

SHALLOW FOOTING SCHEDULE			
MARK	FOOTING SIZE (WxLxT)	REINFORCING	NOTES
F4	4'-0"x4'-0"x1'-2"	(5) #5s EW TOP & BOT	
F5	5'-0"x5'-0"x1'-6"	(6) #6s EW TOP & BOT	
F6	6'-0"x6'-0"x1'-6"	(7) #6s EW TOP & BOT	
F7	7'-0"x7'-0"x1'-6"	(8) #6s EW TOP & BOT	
F8	8'-0"x8'-0"x2'-0"	(9) #7s EW TOP & BOT	
NOTES:			
1. FOOTINGS ARE CENTERED ON COLUMNS U.N.O.			

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
03.100	DARK LINE INDICATES SLAB EDGE.
03.101	LINE INDICATES SLAB CONTROL JOINTS. REFER TO CONCRETE SLAB JOINTS DETAIL FOR REQUIREMENTS. SHOWN IN ONE BAY ONLY FOR CLARITY.
03.102	2'-0" MIN DIAMOND OR ROUND BLOCKOUT AT EACH COLUMN. SIZE TO ALLOW FOR PROPER ERECTION OF COLUMN. REFER TO ISOLATION JOINT DETAIL.
03.104	SLOPE SLAB TO DRAIN AT APPROX. 1/8" PER FOOT. PROVIDE EASED EDGE AROUND PERIMETER OF SLOPED AREA. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED EXTENT OF SLOPED SLAB.
03.105	PROVIDE #4 BAR x 4'-0" LONG CENTERED IN SLAB AT RE-ENTRANT CORNERS.
03.108	RECESS SLAB FOR ACCESSIBLE SHOWER. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL REQUIREMENTS.
03.200	DASHED LINE INDICATES FOUNDATION BELOW.
13.200	PRE-ENGINEERED METAL BUILDING COLUMN PER PEMB DESIGNER.
13.201	PRE-ENGINEERED METAL BUILDING OPENING JAMB POST PER PEMB DESIGNER.

FOUNDATION PLAN NOTES	
1.	TOP OF SLAB ELEVATION = 100'-0" IS EQUAL TO CIVIL ELEVATION = 1346.0
2.	ALL TOP OF EXTERIOR FOOTING ELEVATIONS SHALL BE 9'-4" U.N.O.
3.	ALL TOP OF GRADEBEAM ELEVATIONS SHALL BE 99'-4" U.N.O.
4.	ALL TOP OF PEDESTAL ELEVATIONS SHALL BE 99'-4" U.N.O. SEE SHEET S2.1 FOR PEDESTAL SIZE AND REINFORCING REQUIREMENTS.
5.	COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
6.	NOT ALL PENETRATIONS ARE SHOWN ON STRUCTURAL DRAWINGS. COORDINATE ALL SLAB AND FOUNDATION PENETRATIONS WITH OTHER DISCIPLINES AND NOTIFY ENGINEER IF ANY CONFLICTS ARE NOTED.
7.	UTILITIES SHALL PASS BELOW OR THROUGH PERIMETER GRADEBEAM PER PIPE PENETRATION DETAIL.
8.	SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISH REQUIREMENTS.
9.	SLOPE FLOORS TO FLOOR DRAINS. COORDINATE SLOPE EXTENTS WITH ARCH. AND MEP.
10.	DOWEL ALL SIDEWALKS AT DOORS TO BUILDING SLABS W/ #4 x 24" LONG DOWELS @ 12" O.C. MAX.
11.	PROVIDE SLAB JOINTS PER CONCRETE SLAB JOINTS DETAIL AND GENERAL FOUNDATION NOTES.
12.	PROVIDE ADDITIONAL REINFORCING PER TYPICAL SLAB ON GRADE REINFORCING DETAILS.
13.	SEE SHEET S2.1 FOR ANCHOR ROD INFORMATION.
14.	PROVIDE SLAB BLOCKOUTS PER ISOLATION JOINT DETAILS AT RECESSED COLUMN LOCATIONS.
15.	WHERE ONLY ONE CURTAIN OF REINFORCING IS REQUIRED, BARS SHALL BE CENTERED IN WALL.
16.	PROVIDE CONTINUOUS REINFORCING IN ALL CONCRETE CONSTRUCTION. SEE TYPICAL CORNER BAR REINFORCING DETAIL.
17.	PERIMETER INSULATION SHALL BE AS REQUIRED BY ARCHITECTURAL DRAWINGS.



1 FOUNDATION PLAN - BID ALT WEST
1/8" = 1'-0"

2 FOUNDATION PLAN - BASE BID
1/8" = 1'-0"

3 FOUNDATION PLAN - BID ALT EAST
1/8" = 1'-0"



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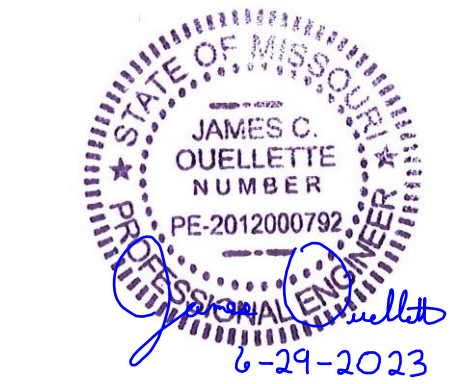
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PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

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PROJECT NUMBER:
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DATE:
2023.06.29

FOUNDATION
PLANS

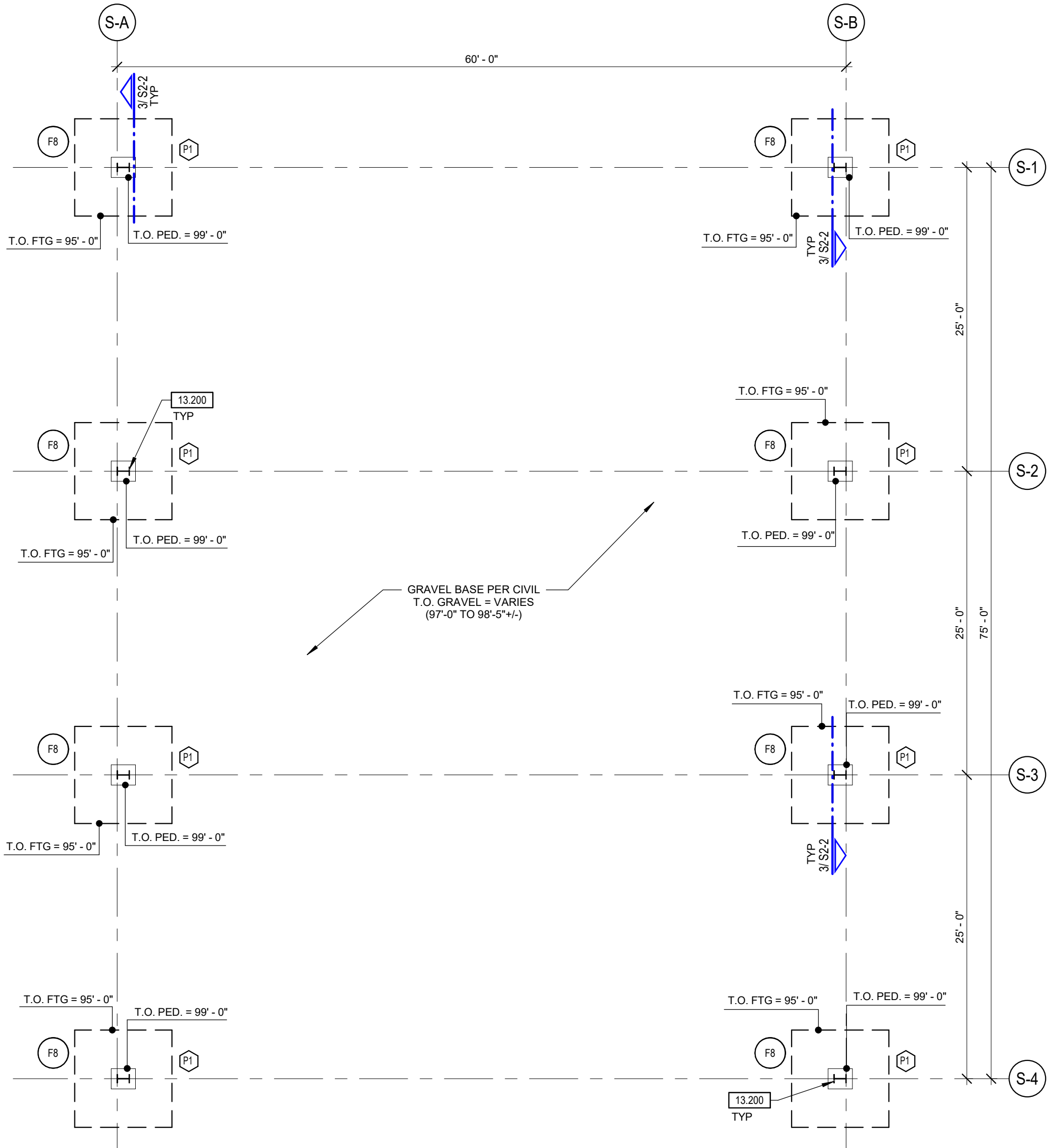
SHEET NUMBER:

S1-1

SHALLOW FOOTING SCHEDULE			
MARK	FOOTING SIZE (WxLxT)	REINFORCING	NOTES
F4	4'-0"x4'-0"x1'-2"	(5) #5s EW TOP & BOT	
F5	5'-0"x5'-0"x1'-6"	(6) #6s EW TOP & BOT	
F6	6'-0"x6'-0"x1'-6"	(7) #6s EW TOP & BOT	
F7	7'-0"x7'-0"x1'-6"	(8) #6s EW TOP & BOT	
F8	8'-0"x8'-0"x2'-0"	(9) #7s EW TOP & BOT	
NOTES:			
1. FOOTINGS ARE CENTERED ON COLUMNS U.N.O.			

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
13.200	PRE-ENGINEERED METAL BUILDING COLUMN PER PEMB DESIGNER.

FOUNDATION PLAN NOTES	
1.	TOP OF SLAB ELEVATION = 100'-0" IS EQUAL TO CIVIL ELEVATION = 1346.0
2.	ALL TOP OF EXTERIOR FOOTING ELEVATIONS SHALL BE 97'-4" U.N.O.
3.	ALL TOP OF GRADEBEAM ELEVATIONS SHALL BE 99'-4" U.N.O.
4.	ALL TOP OF PEDESTAL ELEVATIONS SHALL BE 99'-4" U.N.O. SEE SHEET S2.1 FOR PEDESTAL SIZE AND REINFORCING REQUIREMENTS.
5.	COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
6.	NOT ALL PENETRATIONS ARE SHOWN ON STRUCTURAL DRAWINGS. COORDINATE ALL SLAB AND FOUNDATION PENETRATIONS WITH OTHER DISCIPLINES AND NOTIFY ENGINEER IF ANY CONFLICTS ARE NOTED.
7.	UTILITIES SHALL PASS BELOW OR THROUGH PERIMETER GRADEBEAM PER PIPE PENETRATION DETAIL.
8.	SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISH REQUIREMENTS.
9.	SLOPE FLOORS TO FLOOR DRAINS, COORDINATE SLOPE EXTENTS WITH ARCH AND MEP.
10.	DOWEL ALL SIDEWALKS AT DOORS TO BUILDING SLABS W/ #4 x 24" LONG DOWELS @ 12" O.C. MAX.
11.	PROVIDE SLAB JOINTS PER CONCRETE SLAB JOINTS DETAIL AND GENERAL FOUNDATION NOTES.
12.	PROVIDE ADDITIONAL REINFORCING PER TYPICAL SLAB ON GRADE REINFORCING DETAILS.
13.	SEE SHEET S2.1 FOR ANCHOR ROD INFORMATION.
14.	PROVIDE SLAB BLOCKOUTS PER ISOLATION JOINT DETAILS AT RECESSED COLUMN LOCATIONS.
15.	WHERE ONLY ONE CURTAIN OF REINFORCING IS REQUIRED, BARS SHALL BE CENTERED IN WALL.
16.	PROVIDE CONTINUOUS REINFORCING IN ALL CONCRETE CONSTRUCTION, SEE TYPICAL CORNER BAR REINFORCING DETAIL.
17.	PERIMETER INSULATION SHALL BE AS REQUIRED BY ARCHITECTURAL DRAWINGS.



1 FOUNDATION PLAN - DRY/COLD STORAGE
1/8" = 1'-0"



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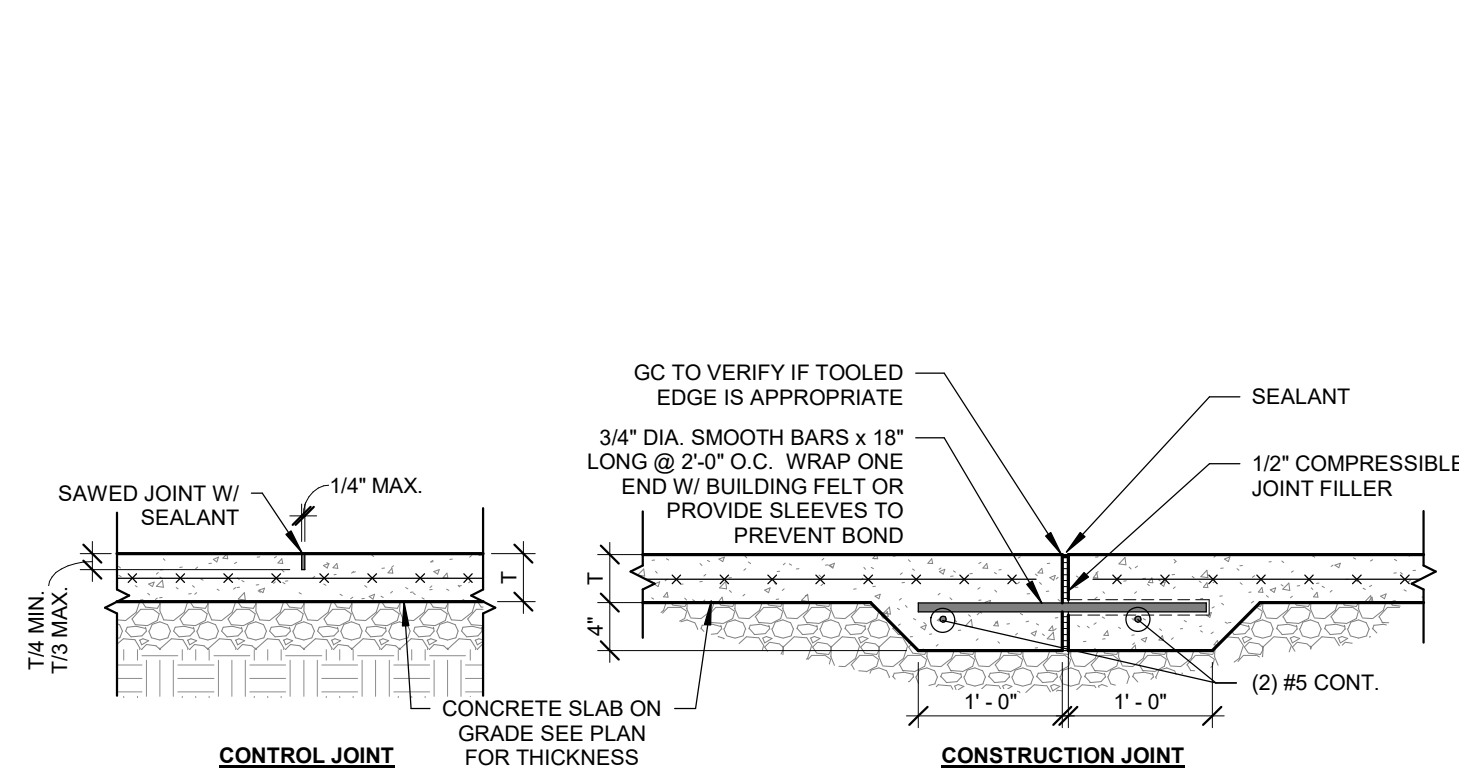
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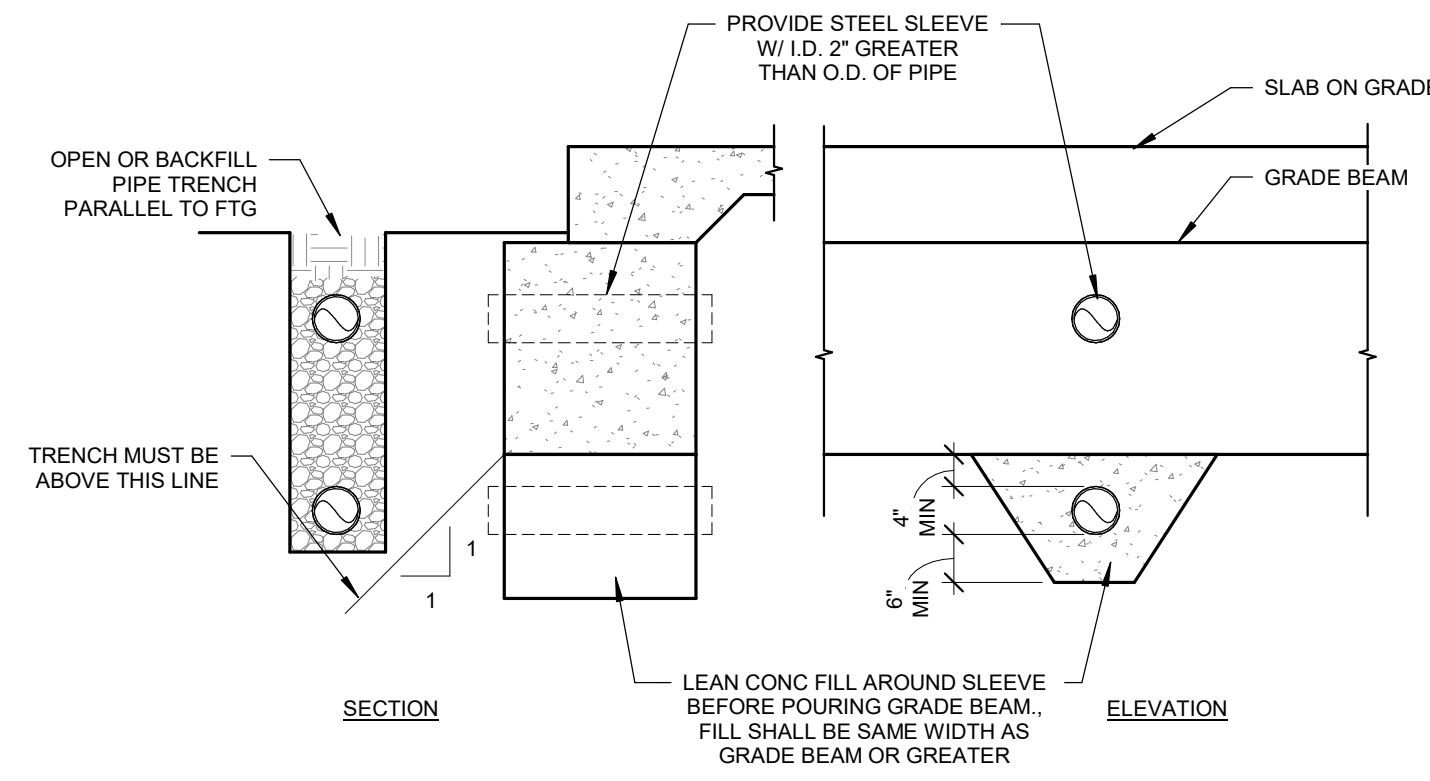
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PLAN

SHEET NUMBER:

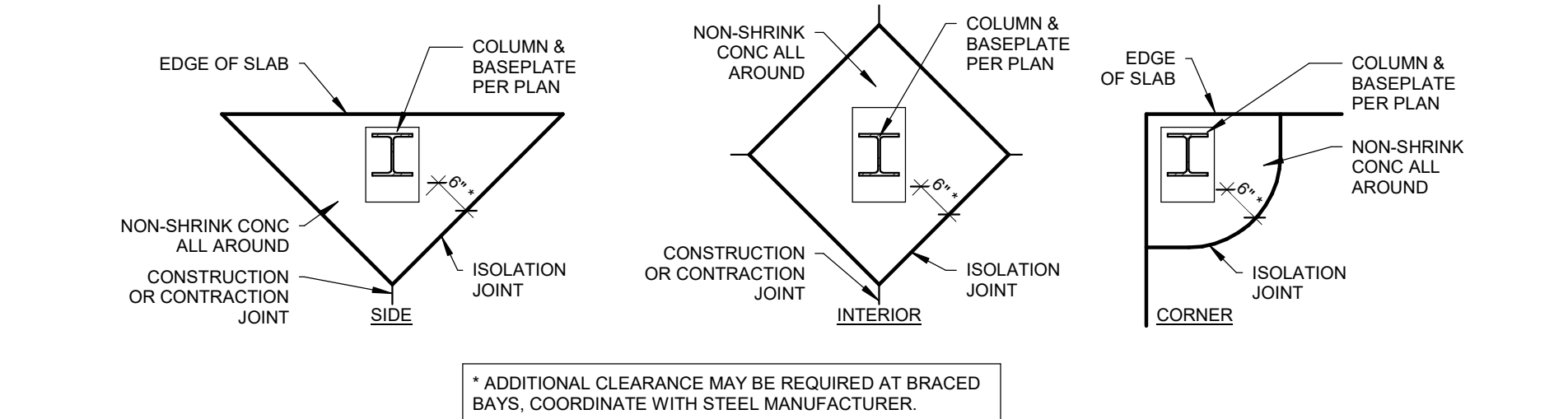
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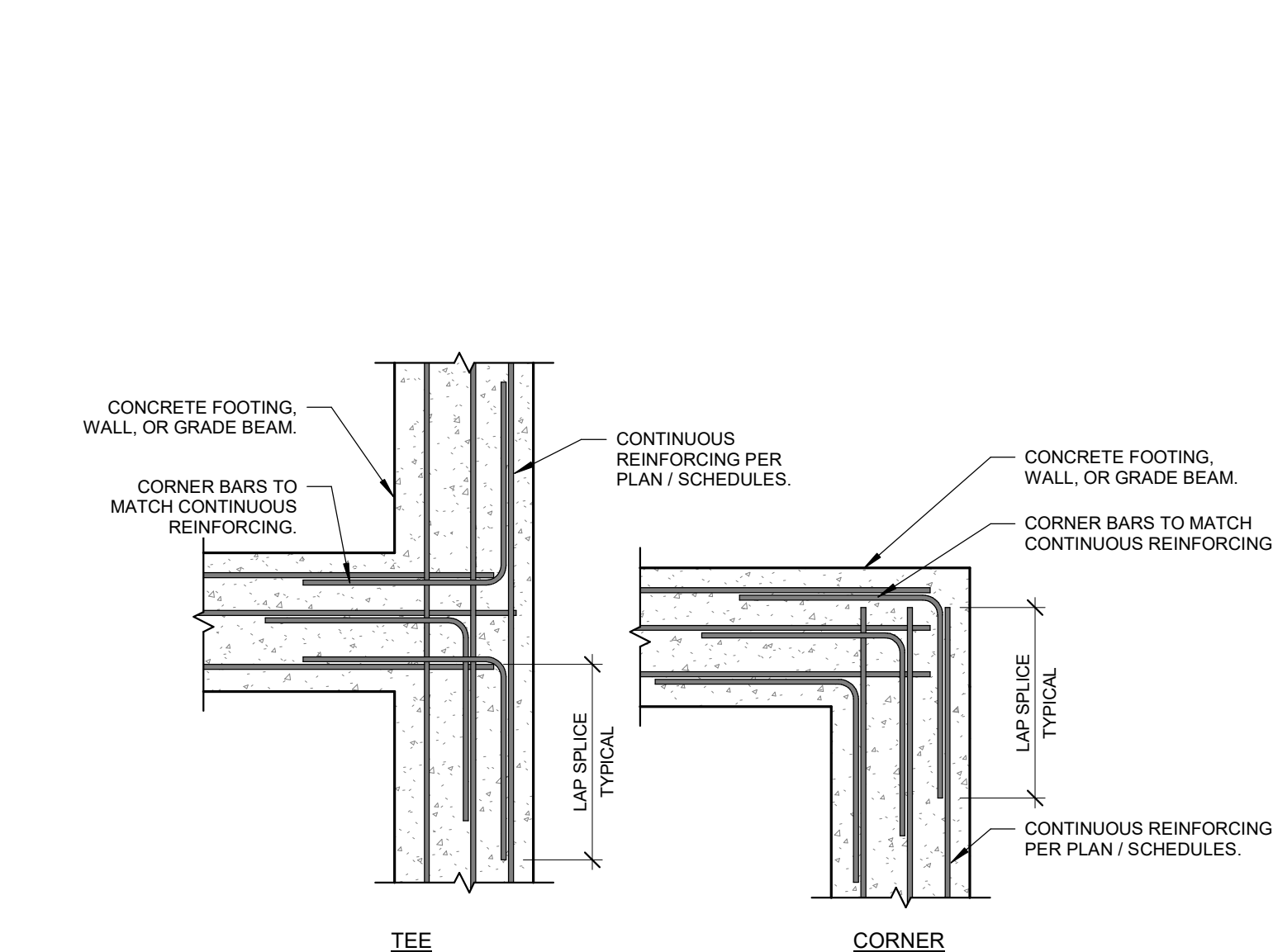
1 CONCRETE SLAB JOINTS
3/4" = 1'-0"



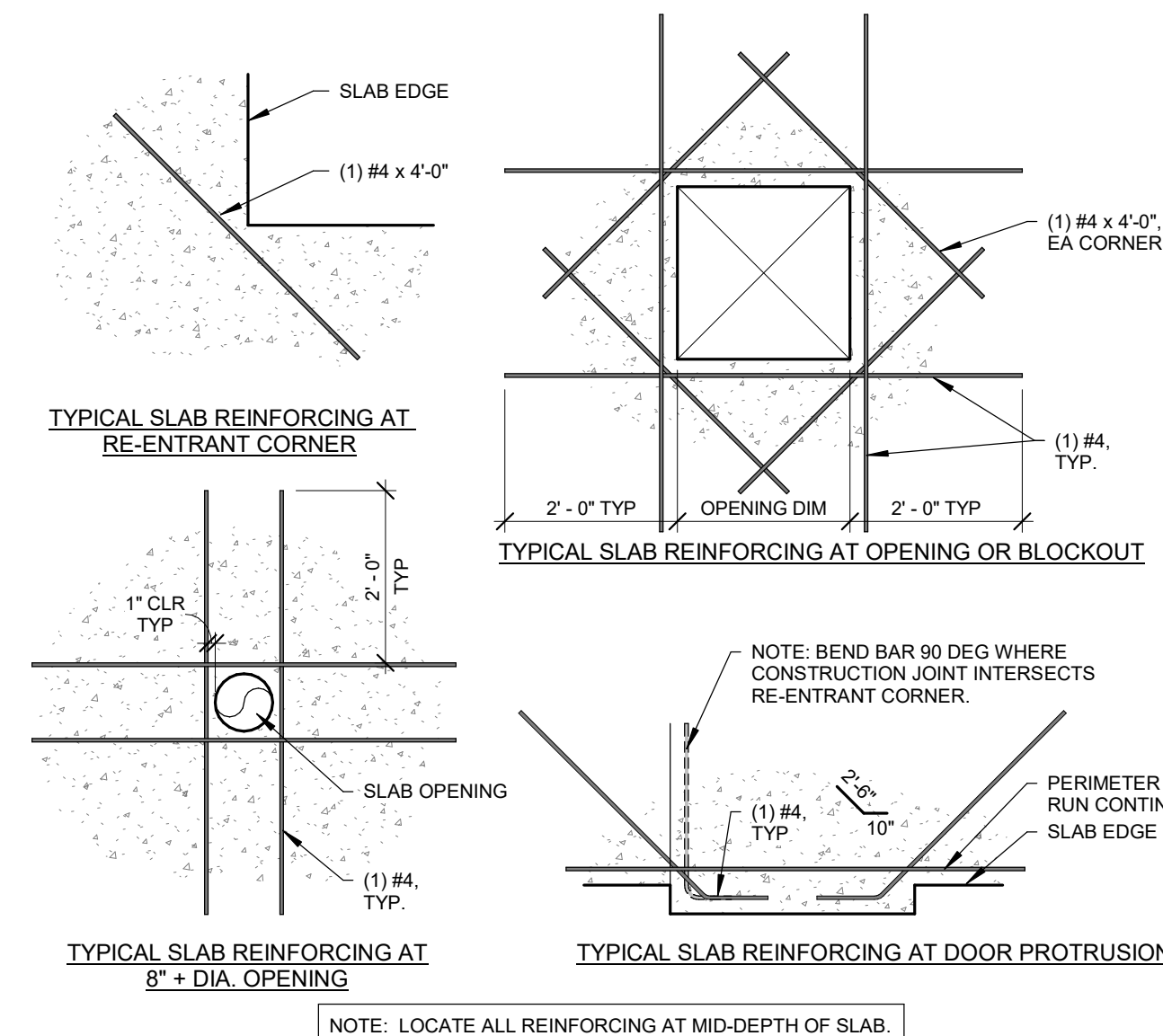
2 PIPE PENETRATION DETAIL
N.T.S.



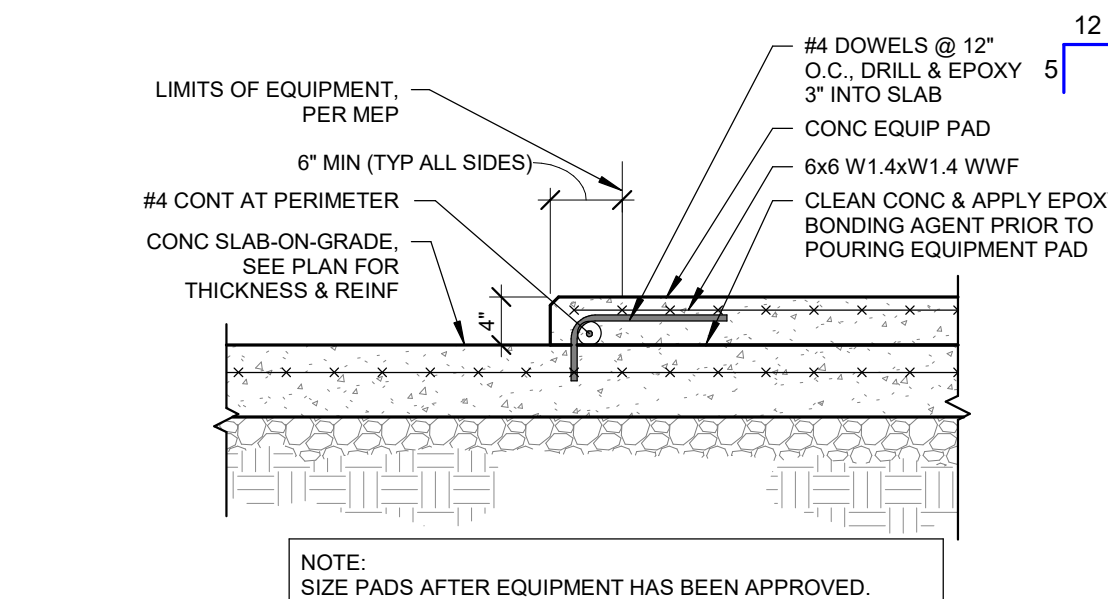
3 ISOLATION JOINT DETAILS
N.T.S.



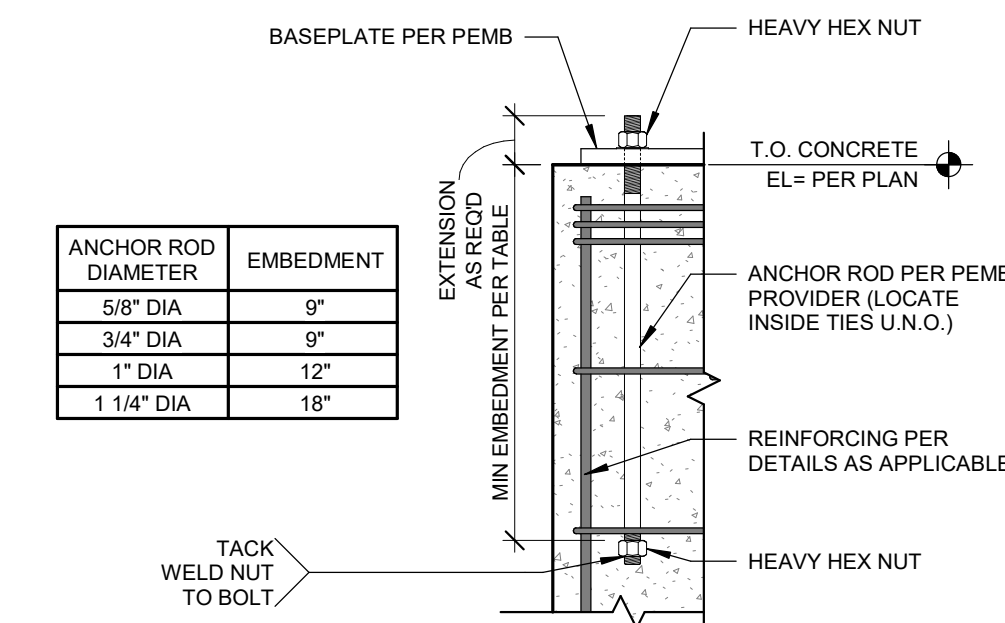
4 TYPICAL CORNER BAR REINFORCING
3/4" = 1'-0"



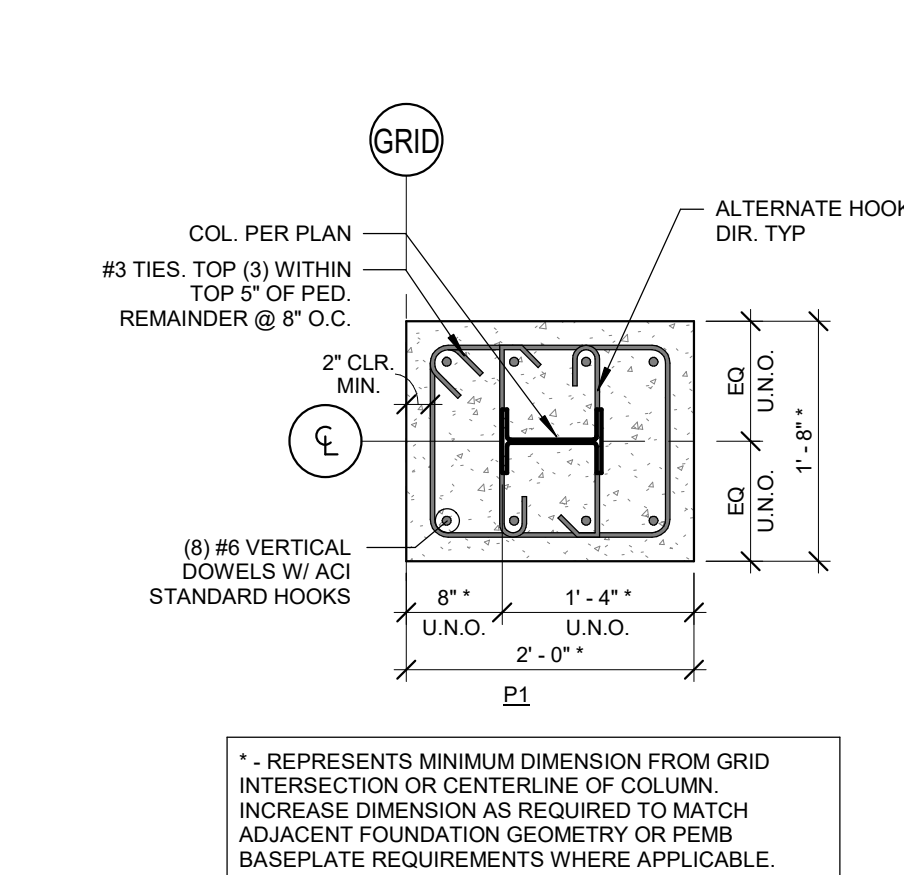
5 TYPICAL SLAB ON GRADE REINFORCING DETAILS
1/2" = 1'-0"



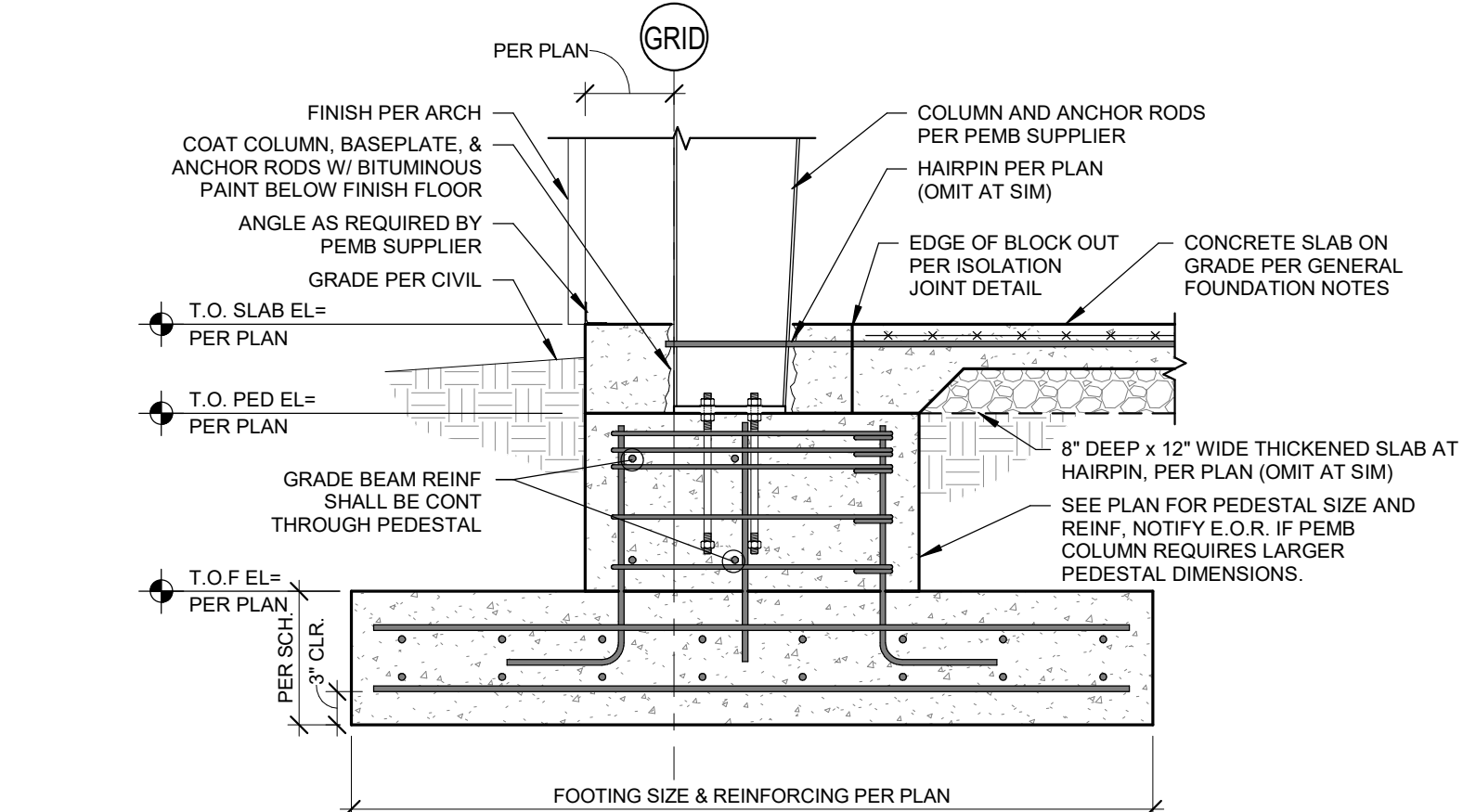
6 EQUIPMENT PAD
3/4" = 1'-0"



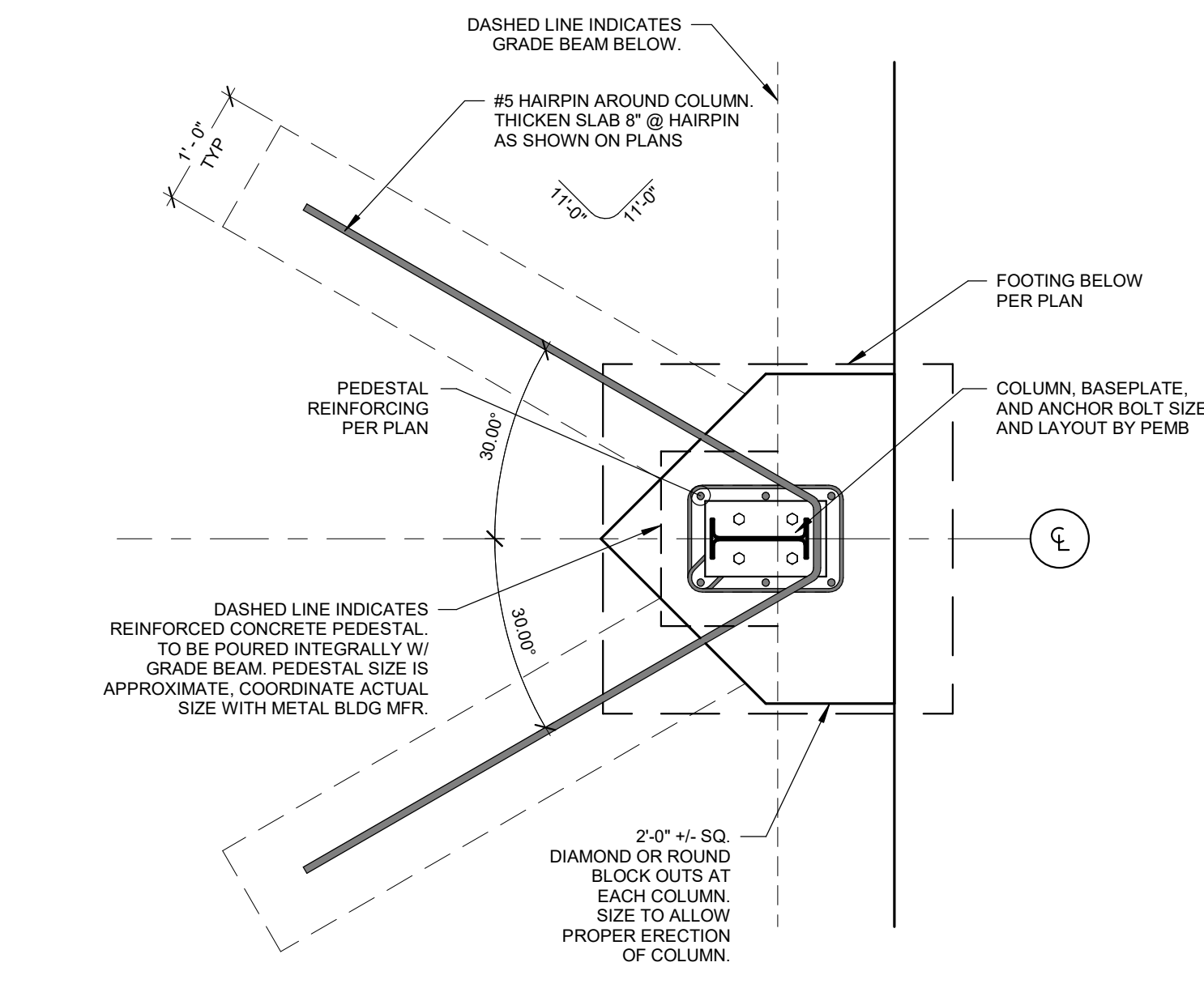
7 ANCHOR ROD FOR PEMB
1" = 1'-0"



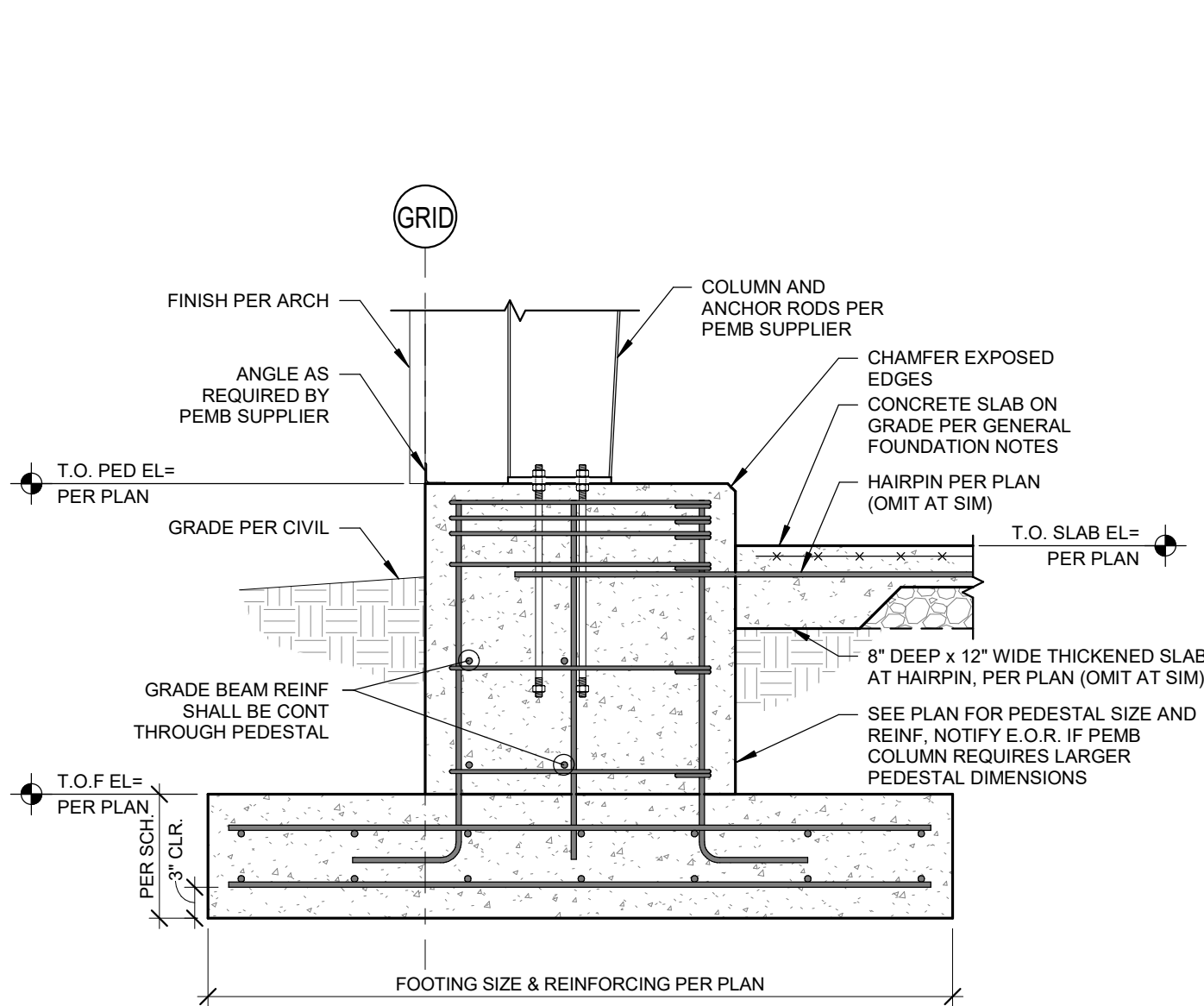
8 PEDESTAL DETAIL
3/4" = 1'-0"



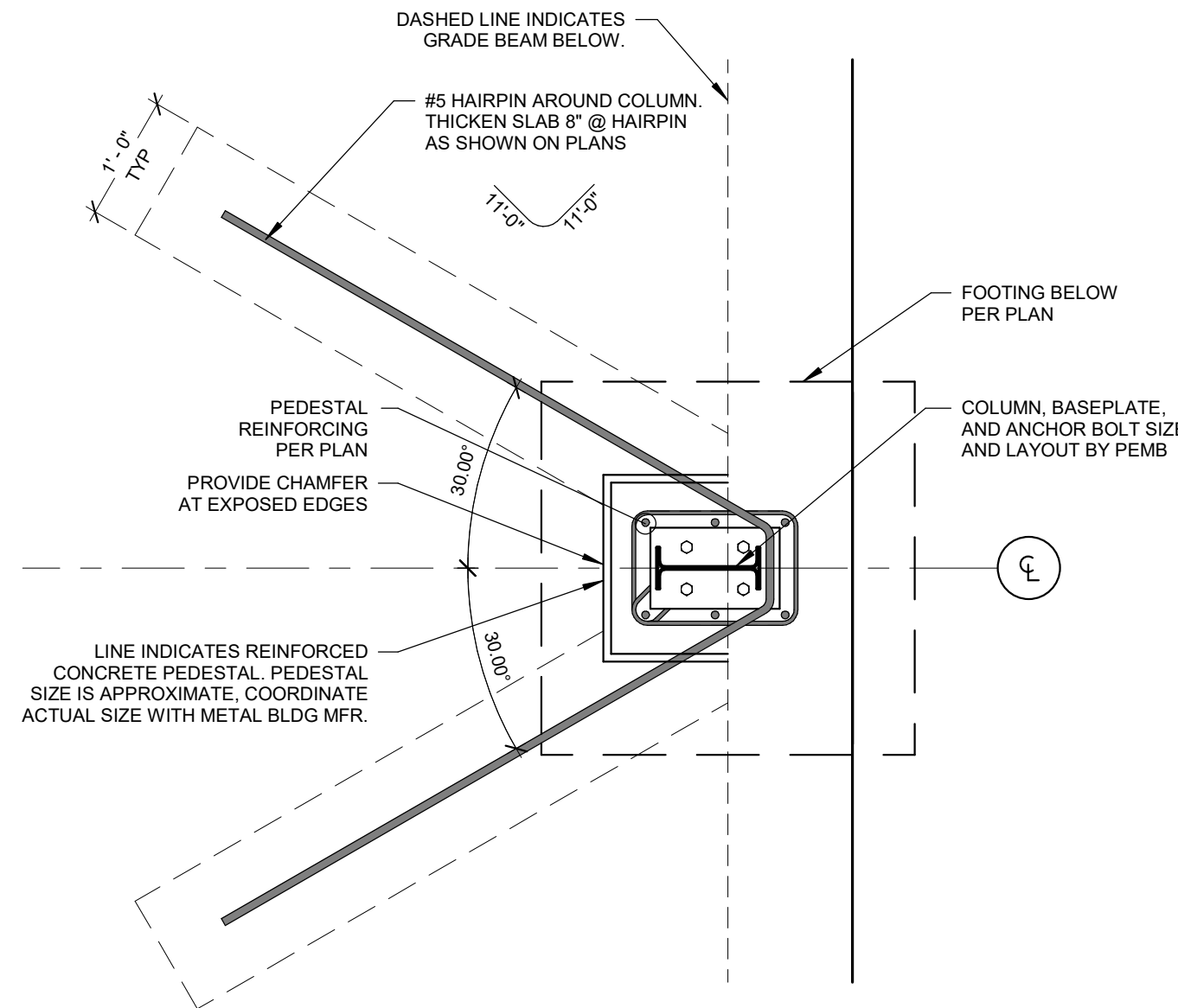
9 FOUNDATION AT METAL BUILDING COLUMN - RECESSED COLUMN
3/4" = 1'-0"



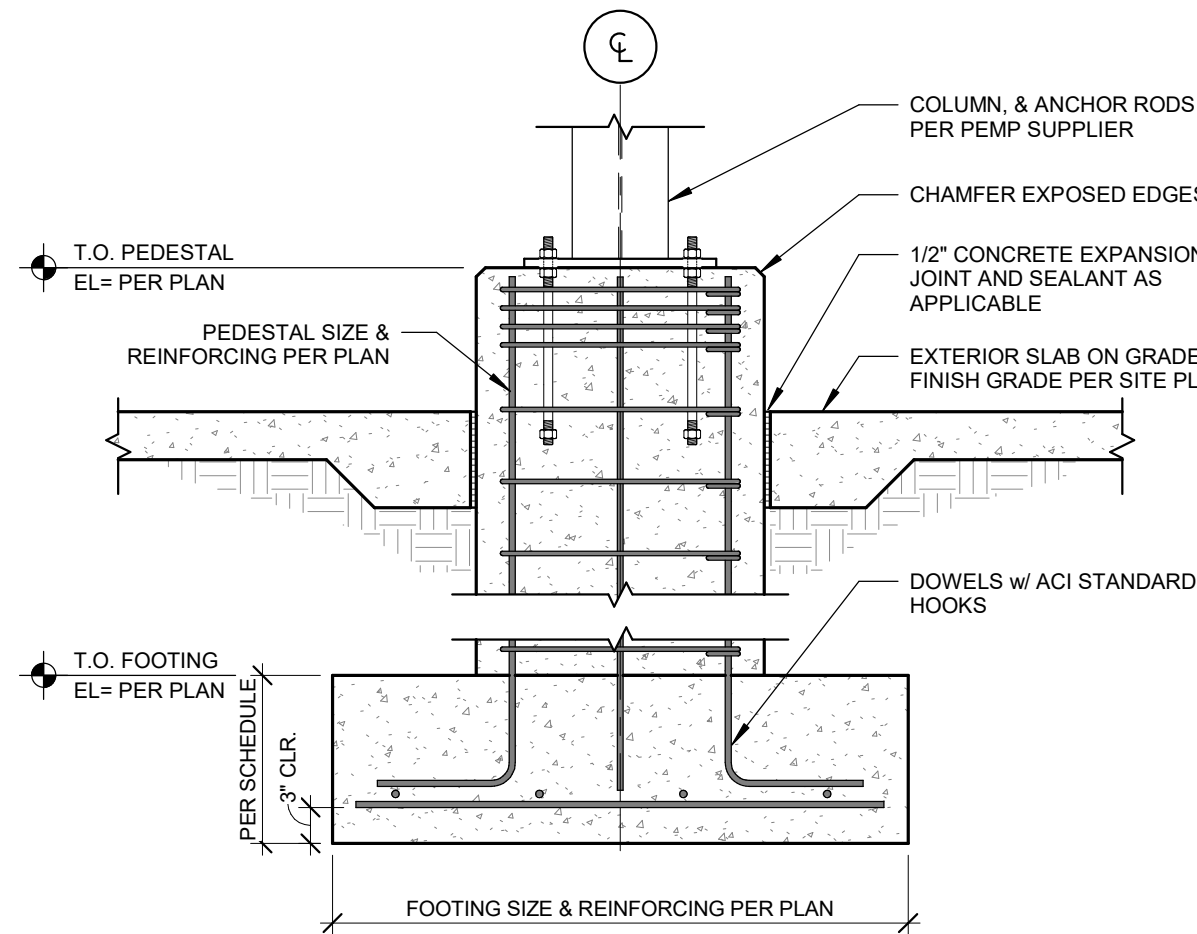
10 HAIRPIN PEDESTAL PLAN - RECESSED COLUMN
3/4" = 1'-0"



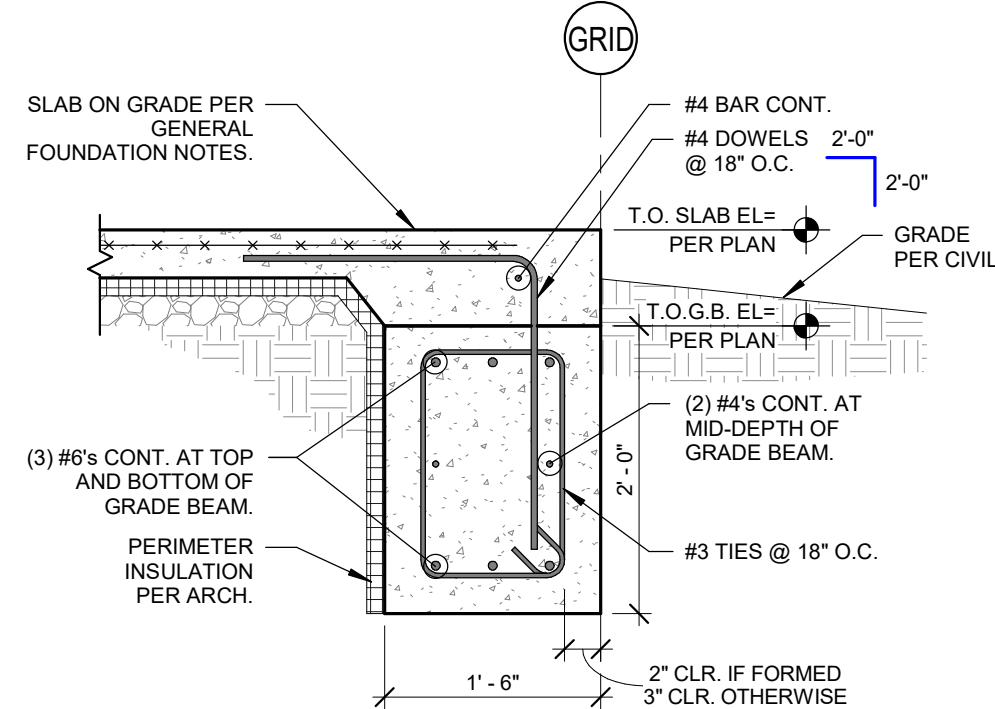
1 FOUNDATION AT METAL BUILDING COLUMN - RAISED COLUMN
3/4" = 1'-0"



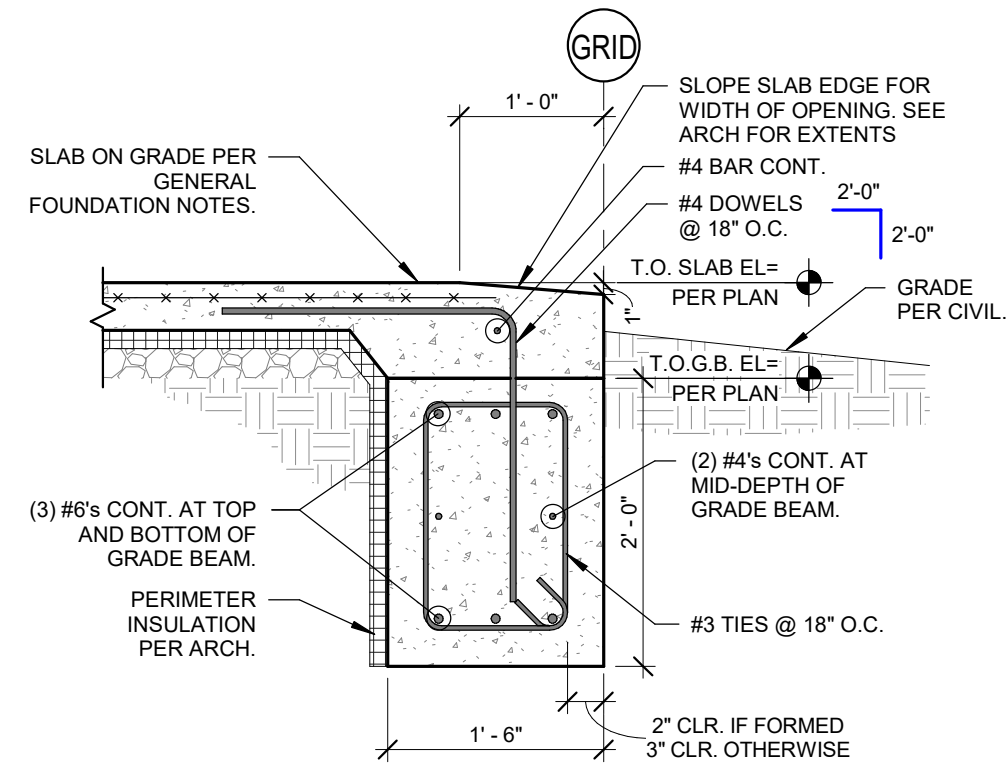
2 HAIRPIN PEDESTAL PLAN - RAISED COLUMN
3/4" = 1'-0"



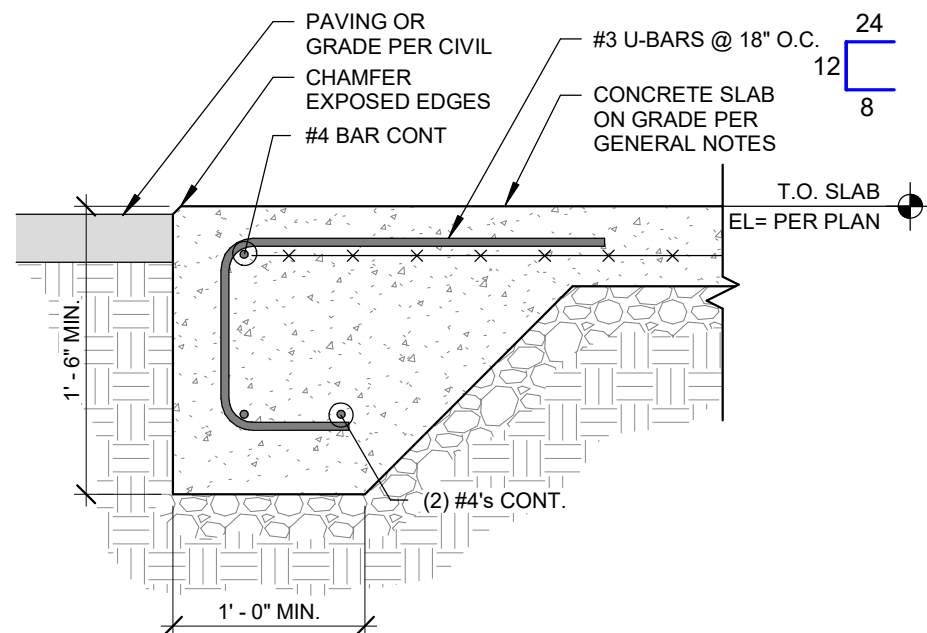
3 TYPICAL EXTERIOR COLUMN w/ PEDESTAL
3/4" = 1'-0"



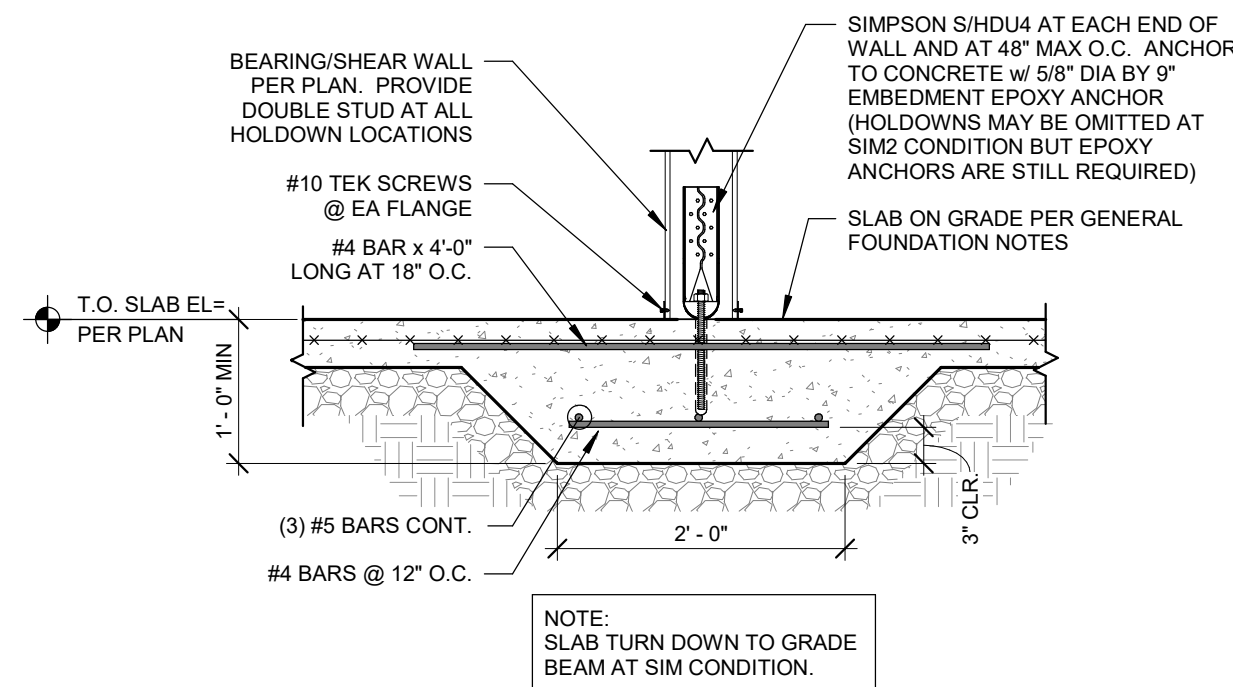
4 TYPICAL 18" GRADE BEAM DETAIL
3/4" = 1'-0"



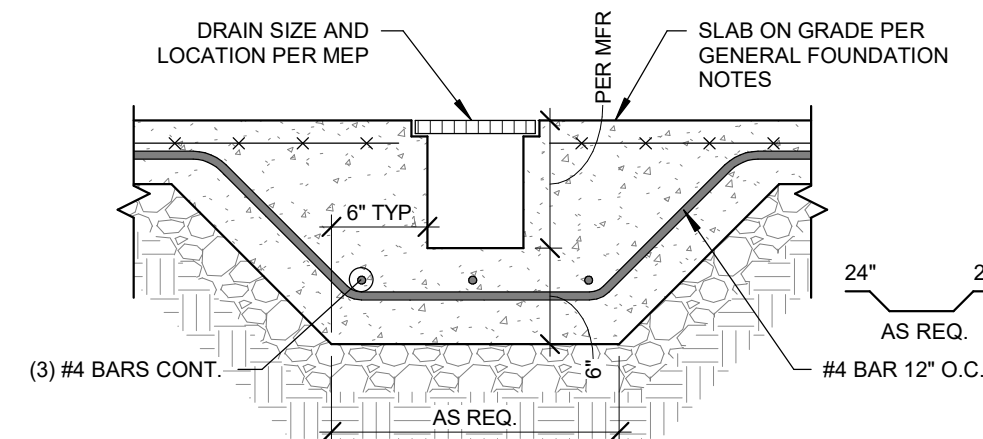
5 TYPICAL GRADE BEAM AT OVERHEAD DOOR DETAIL
3/4" = 1'-0"



6 FREE EDGE DETAIL
1" = 1'-0"



7 THICKENED SLAB AT METAL STUD WALL
3/4" = 1'-0"



8 TYPICAL TRENCH DRAIN
1" = 1'-0"



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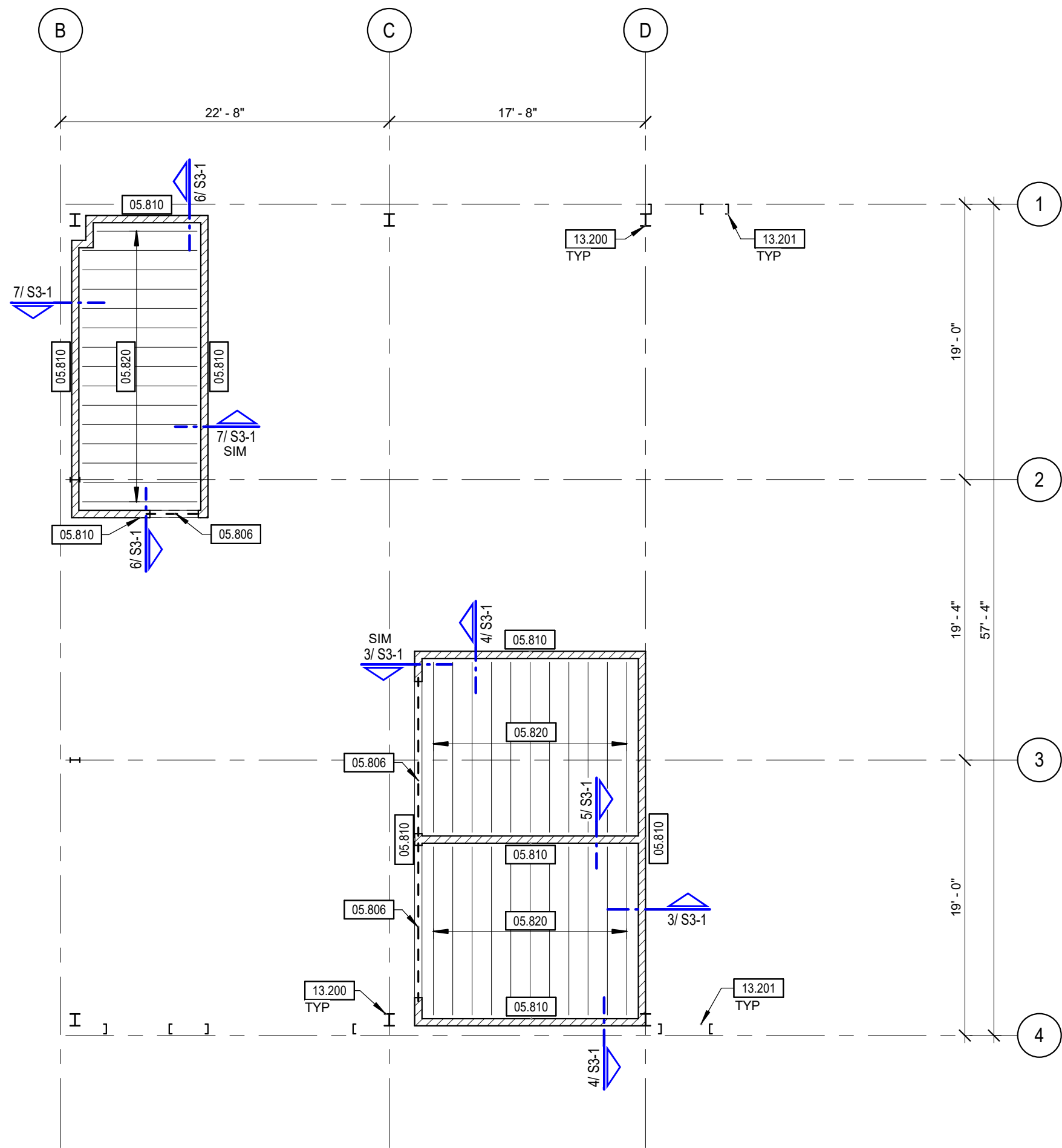
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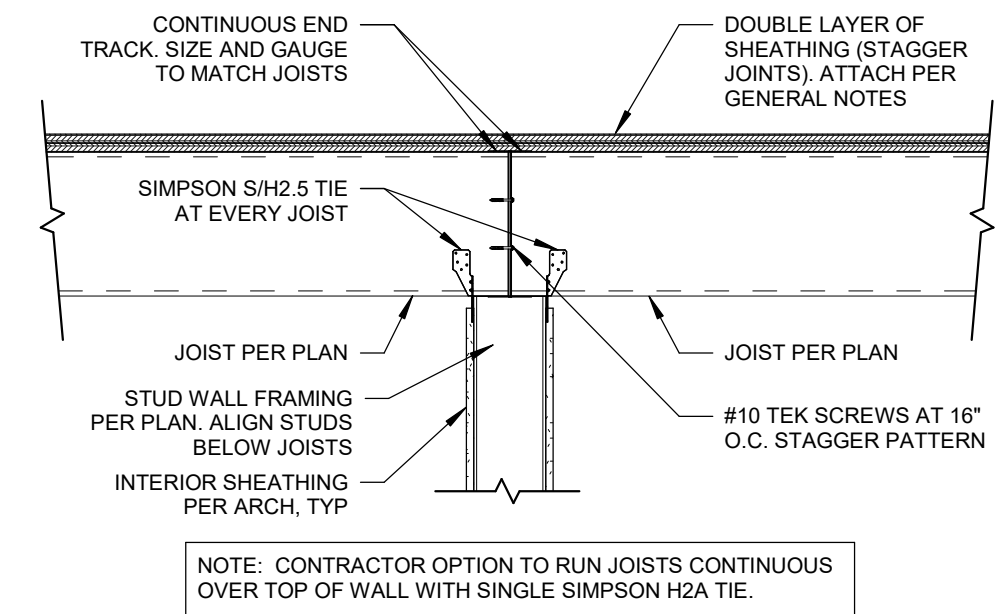
FOUNDATION
DETAILS

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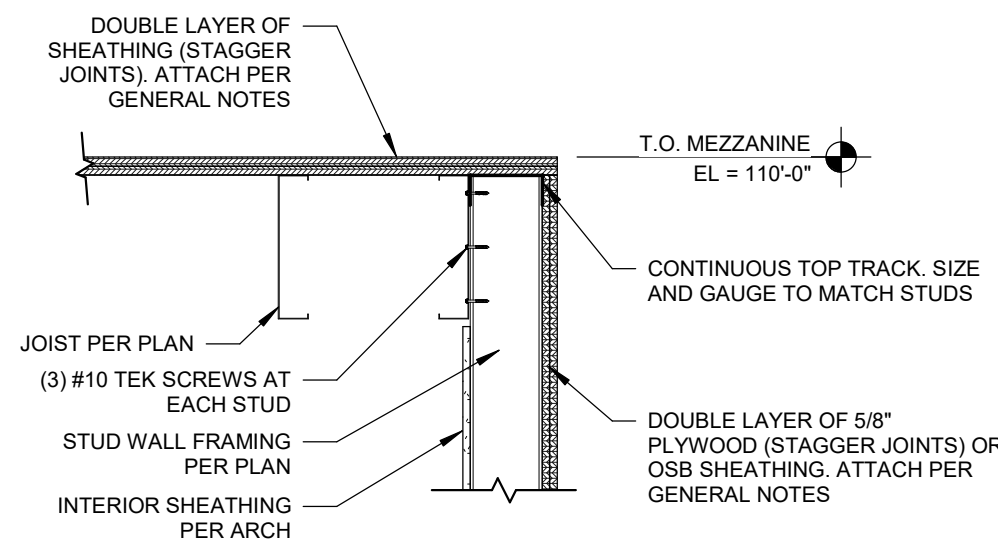
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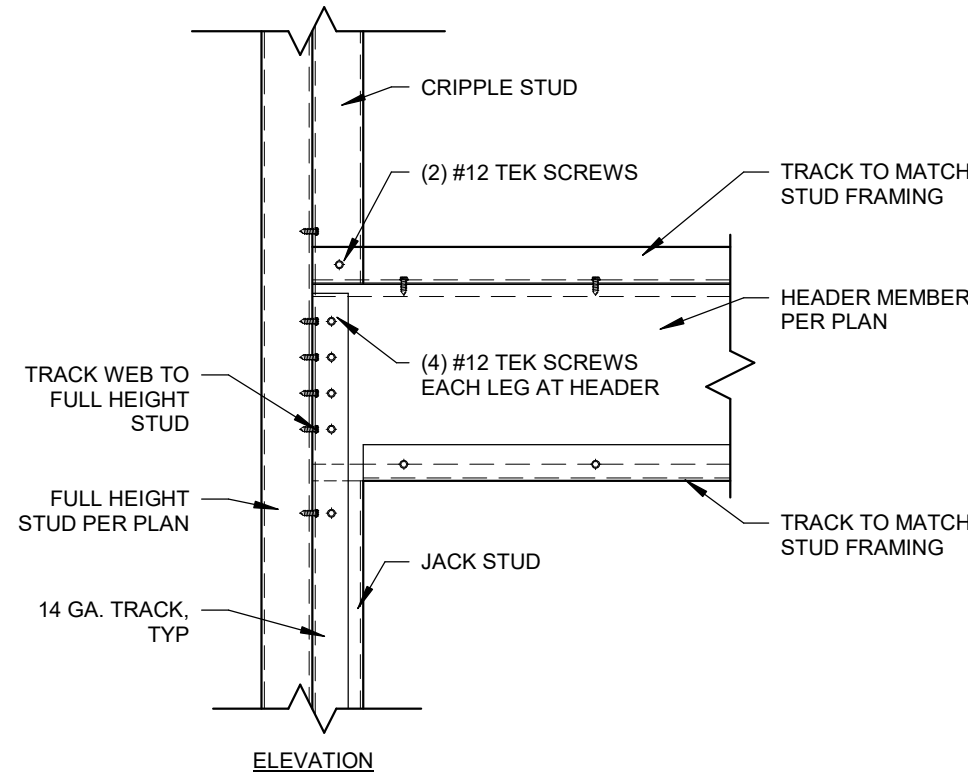
1 MEZZANINE FRAMING PLAN
1/8" = 1'-0"



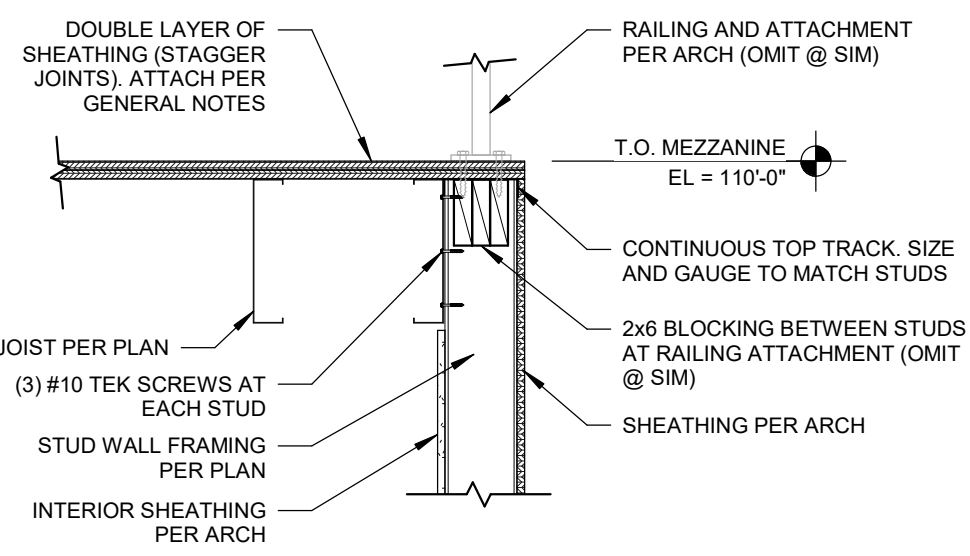
5 LGMF JOIST BEARING ON INTERIOR STUD WALL
3/4" = 1'-0"



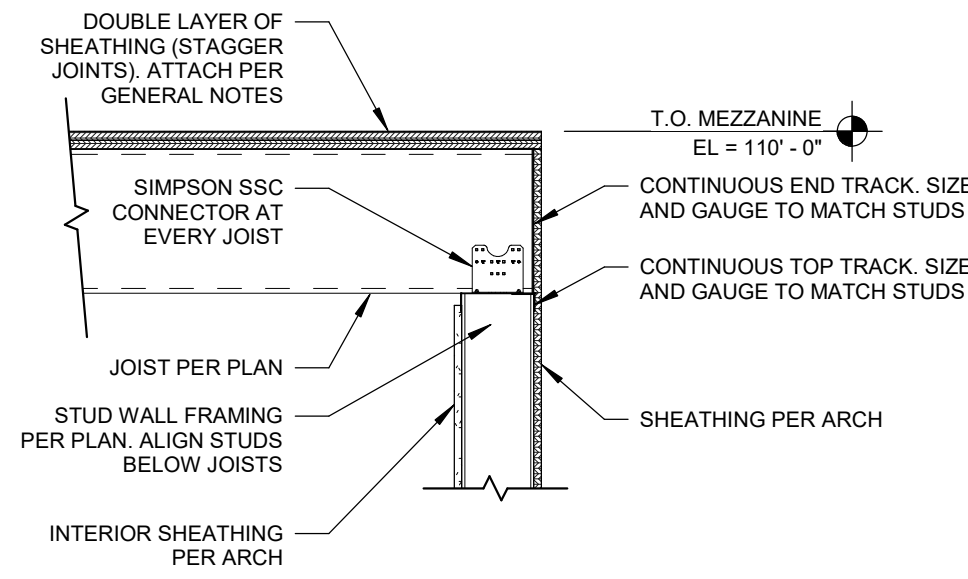
6 EDGE DETAIL
3/4" = 1'-0"



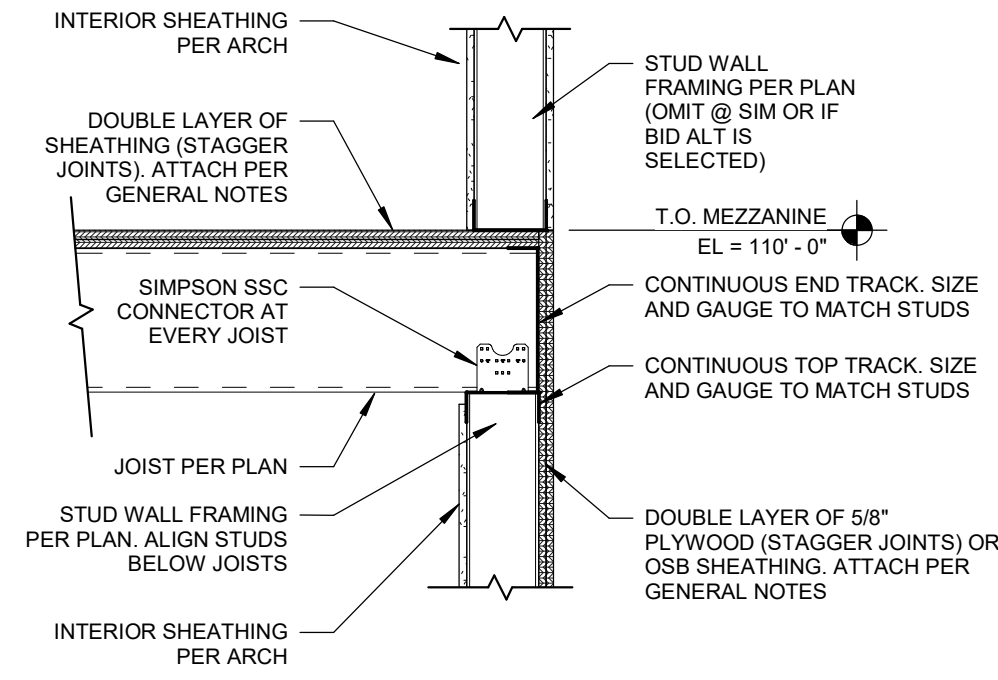
2 HEADER / SILL DETAIL
1 1/2" = 1'-0"



3 MEZZANINE FRAMING DETAIL
3/4" = 1'-0"



4 LGMF JOIST BEARING ON STUD WALL
3/4" = 1'-0"



7 EDGE DETAIL
3/4" = 1'-0"

FRAMING PLAN NOTES	
1.	ALL OPENING SIZES AND LOCATIONS, HEAD AND SILL ELEVATIONS, ETC. SHALL BE COORDINATED WITH OTHER DISCIPLINES.
2.	MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. THE CONTRACTOR AND SUB SHALL VERIFY ALL UNIT WEIGHTS, LOCATIONS, AND DIMENSIONS.
3.	REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF PARTITION WALL ELEVATIONS. BRACE WALLS IN ACCORDANCE WITH TYPICAL DETAILS.
4.	COORDINATE FIREPROOFING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5.	PROVIDE SIMPSON JOIST HANGERS AT ALL JOIST AND HEADER INTERSECTIONS.
6.	ALIGN JOISTS AND STUDS.
7.	COORDINATE ALL SHAFT SIZES AND LOCATIONS WITH ARCH AND MEP.
8.	PROVIDE MULTIPLE STUDS TO GRADE AT HEADER OR CONCENTRATED BEARING POINTS.
9.	PROVIDE BLOCKING BETWEEN JOISTS AT EACH MEP FIXTURE, FINISH ELEMENT, AND ANY ITEM ANCHORED TO FLOOR STRUCTURE. DO NOT DAMAGE JOIST FLANGES. COORDINATE BLOCKING LOCATIONS WITH PENETRATIONS.
10.	COORDINATE FLOOR FRAMING LAYOUT WITH PLUMBING. ADJUST JOIST LAYOUT AS REQUIRED. DO NOT CUT OR NOTCH JOISTS.
11.	ALL PLYWOOD SHALL BE FIRE RETARDANT.

KEYNOTE	DESCRIPTION
05.806	(2) 100S162-54 BOXED HEADER. SEE DETAIL 2/S3-1 FOR JAMB STUD ATTACHMENT.
05.810	600S162-54 STUDS AT 16" MAX O.C. PROVIDE MANUFACTURER'S STANDARD BRIDGING AT 4'-0" O.C.
05.820	1000S162-54 JOISTS AT 16" MAX O.C. PROVIDE BLOCKING / STRAP BRACING AT 4'-0" O.C.
13.200	PRE-ENGINEERED METAL BUILDING COLUMN PER PEMB DESIGNER.
13.201	PRE-ENGINEERED METAL BUILDING OPENING JAMB POST PER PEMB DESIGNER.



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MEZZANINE
FRAMING PLAN &
DETAILS

SHEET NUMBER:

S3-1



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MO #: A-2017019282

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REVISION SCHEDULE

PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD. CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

FLOOR PLAN
DETAILS

SHEET NUMBER:

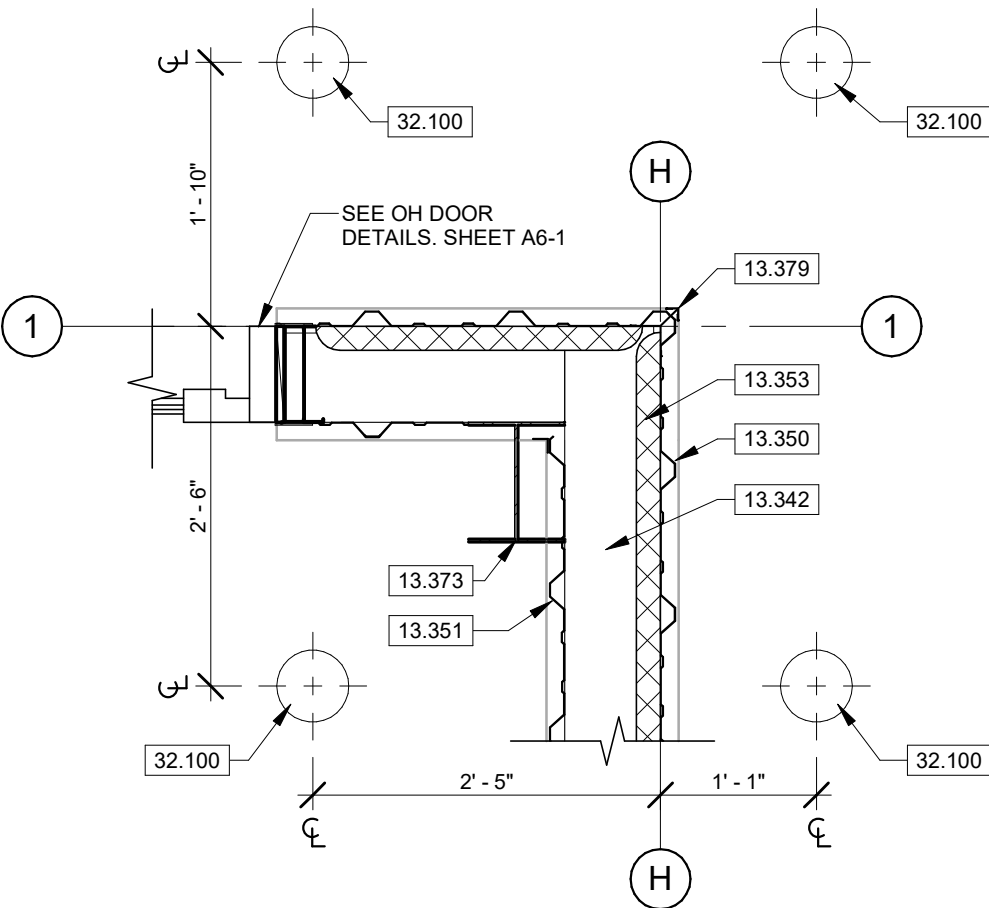
A1-1

KEYNOTE LEGEND

06.108	FIRE RETARDANT PLYWOOD SHEATHING. SEE STRUCTURAL. SEE SECTION 06.1000 ROUGH CARPENTRY.
07.215	FILL CAVITY WITH UNFACED R-21 BATT INSULATION. SEE SECTION 07.2100 THERMAL INSULATION.
07.228	CLOSED-CELL SPRAY FOAM INSULATION. FILL CAVITY / VOID. SEE SECTION 07.2100 THERMAL INSULATION.
09.211	3-5/8" METAL STUD FRAMING AT 16" ON CENTER MAXIMUM. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
09.212	6" METAL STUD FRAMING AT 16" ON CENTER MAXIMUM. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
09.214	5/8" GYPSUM BOARD. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
13.342	PRE-ENGINEERED METAL BUILDING Z-GIRT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.350	PRE-ENGINEERED METAL BUILDING WALL PANELS. SEE ELEVATIONS FOR MORE INFORMATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.351	PRE-ENGINEERED METAL BUILDING LINER PANEL. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.352	PRE-ENGINEERED METAL BUILDING REINFORCED WHITE VINYL FACED FIBERGLASS INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.353	PRE-ENGINEERED METAL BUILDING BAG INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.379	PRE-ENGINEERED METAL BUILDING CORNER TRIM. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
32.100	BOLLARD. REFER TO PLAN DETAILS FOR TYPICAL BOLLARD LOCATION IN REFERENCE TO OVERHEAD DOORS.

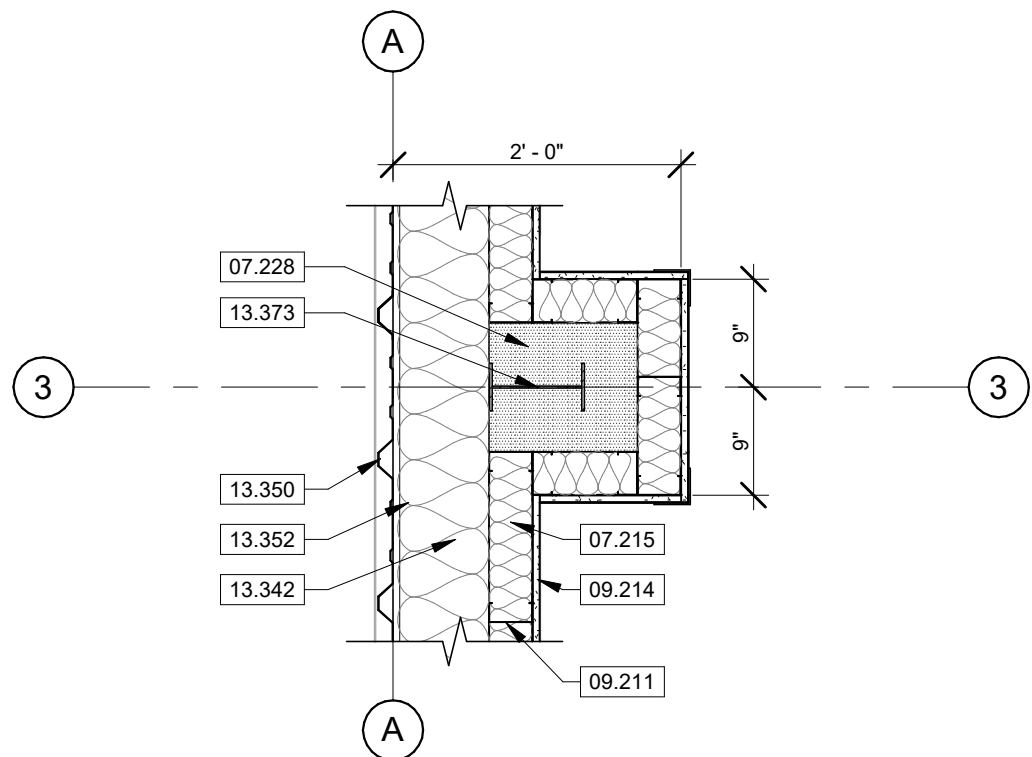
FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. DIMENSIONS OF EXISTING STRUCTURE ARE NOTED "E" AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES IN WRITING.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK. CONTRACTOR TO PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, AND BACKING.
- PROVIDE SOLID WOOD BLOCKING AS REQUIRED TO INSTALL EQUIPMENT AND CASEWORK. VERIFY WITH OWNER FOR ALL ADDITIONAL OWNER FURNISHED ITEMS THAT REQUIRE BLOCKING.
- BUILDING IS TO BE STAKED OUT ON SITE BY A REGISTERED LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION TO VERIFY THAT NO CONFLICTS EXIST BETWEEN PROPOSED CONSTRUCTION AND PROPERTY SETBACKS, EASEMENTS, EXISTING STRUCTURES, OR OTHER PHYSICAL OBJECTS ON SITE. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY CONFLICTS OR VARIATIONS FROM PLANS.
- INTERIOR DOORS TO BE LOCATED 5" AWAY FROM ADJACENT CORNERS, UNLESS NOTED OTHERWISE.
- SEE STRUCTURAL DRAWINGS FOR ALL HEADER, BOND BEAM, LINTEL, COLUMN, AND OTHER STRUCTURAL REQUIREMENTS.
- SEE CODE COMPLIANCE PLAN FOR FIRE EXTINGUISHER AND SIGNAGE REQUIREMENTS AND LOCATIONS.
- FINISH FLOOR ELEVATION INDICATED ON ARCHITECTURAL DRAWINGS IS AT ELEVATION 100'-0". SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.



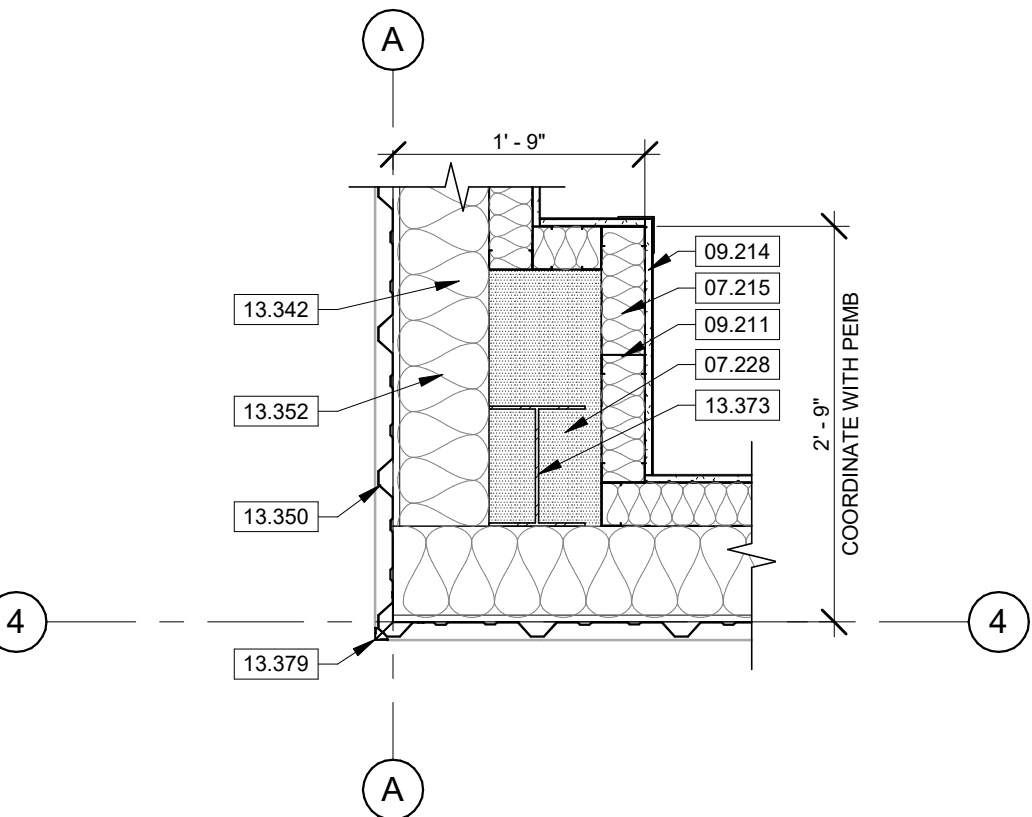
O/S CORNER - GARAGE

SCALE 3/4" = 1'-0"



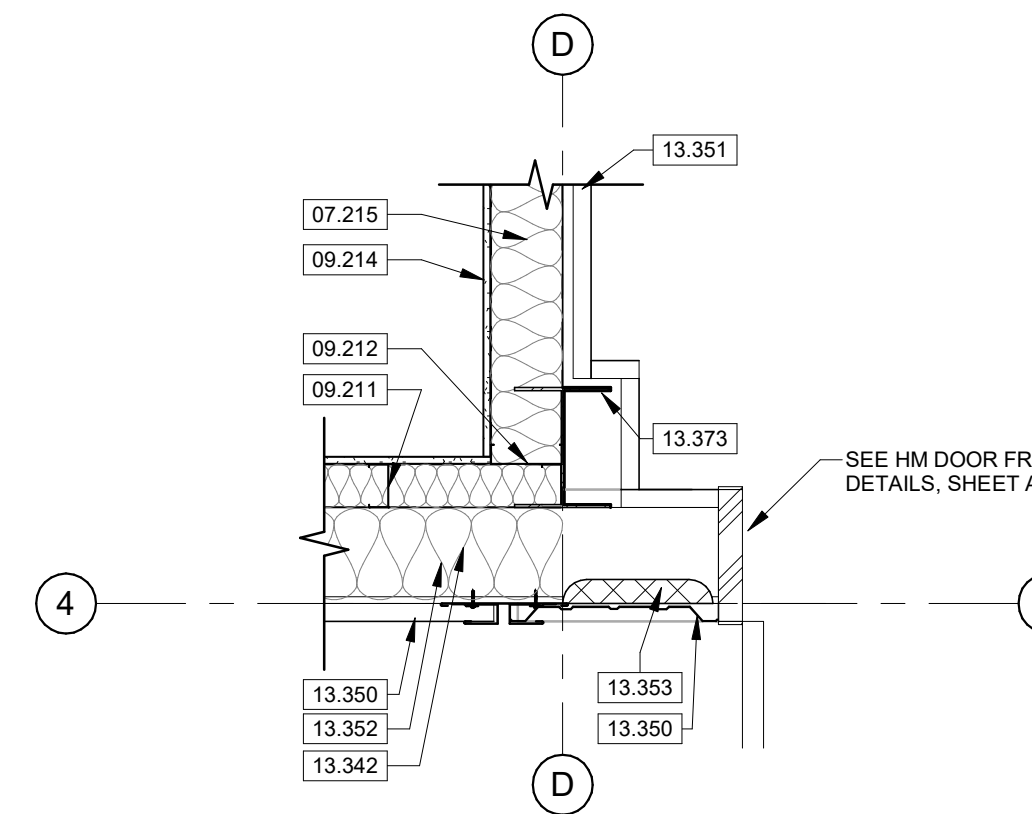
I/S CORNER - METAL PANEL

SCALE 3/4" = 1'-0"



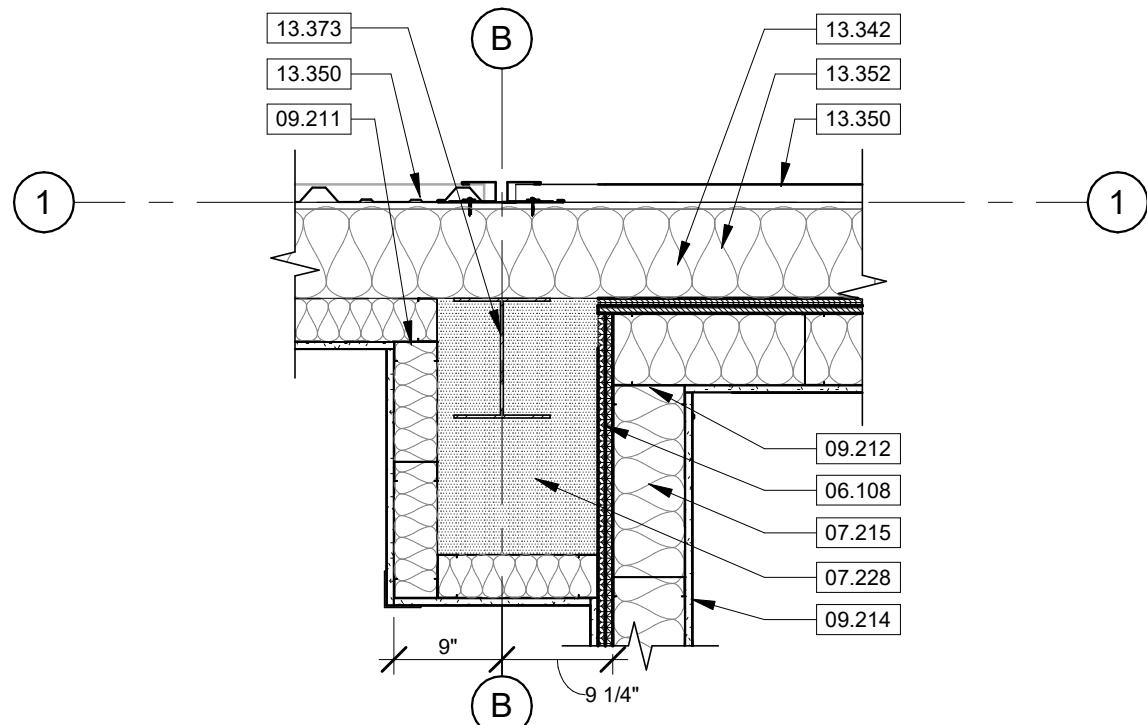
O/S CORNER - METAL PANEL

SCALE 3/4" = 1'-0"



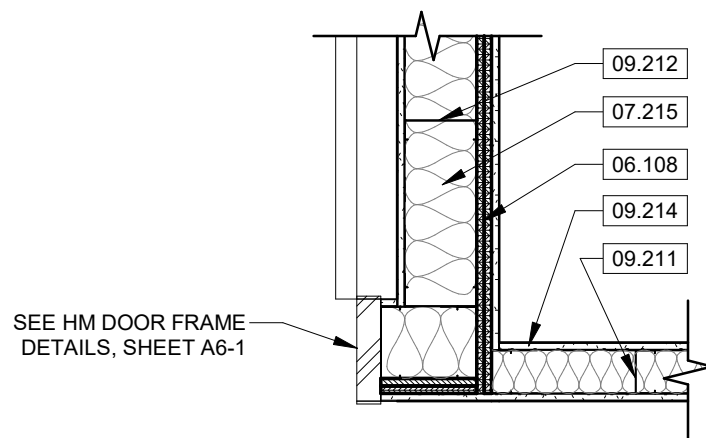
WALL TYPE CONNECTION

SCALE 3/4" = 1'-0"



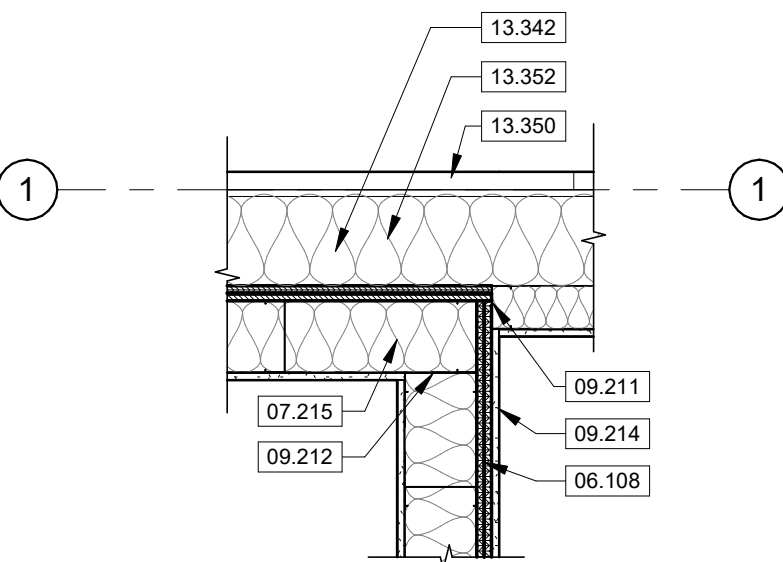
HARDENED WALL CONNECTION
- BID ALT.

SCALE 3/4" = 1'-0"



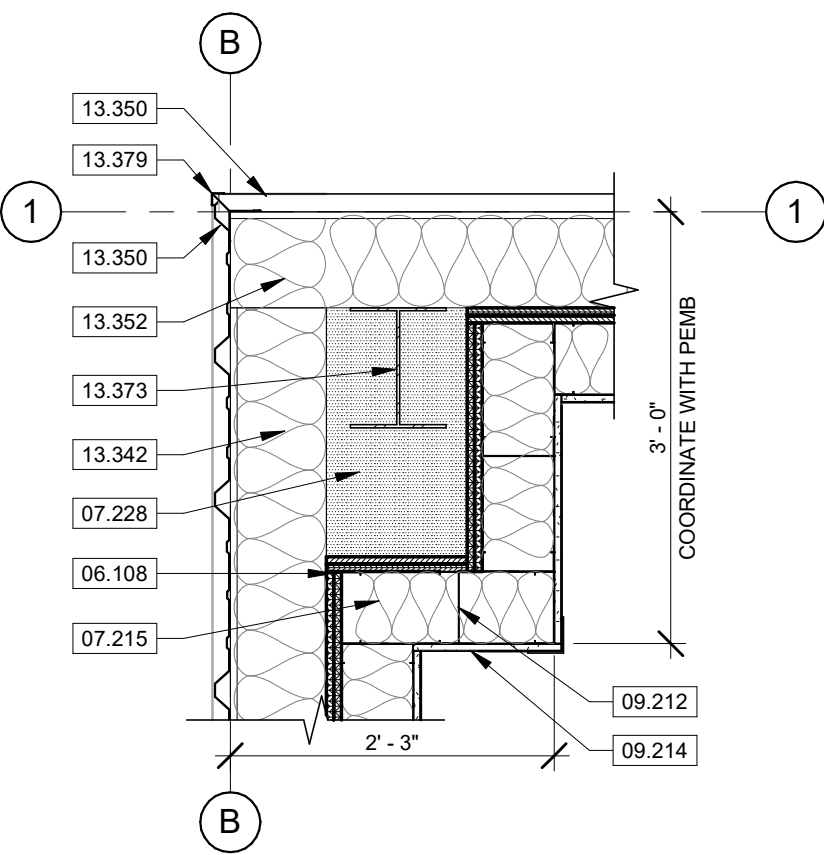
HARDENED WALL CONNECTION
- INTERIOR

SCALE 3/4" = 1'-0"



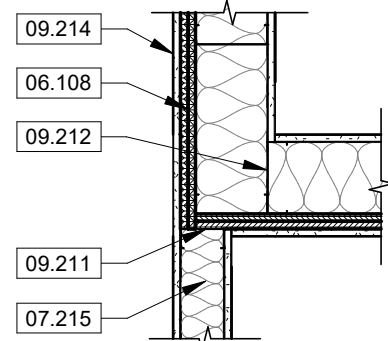
HARDENED WALL CONNECTION
- EXTERIOR

SCALE 3/4" = 1'-0"



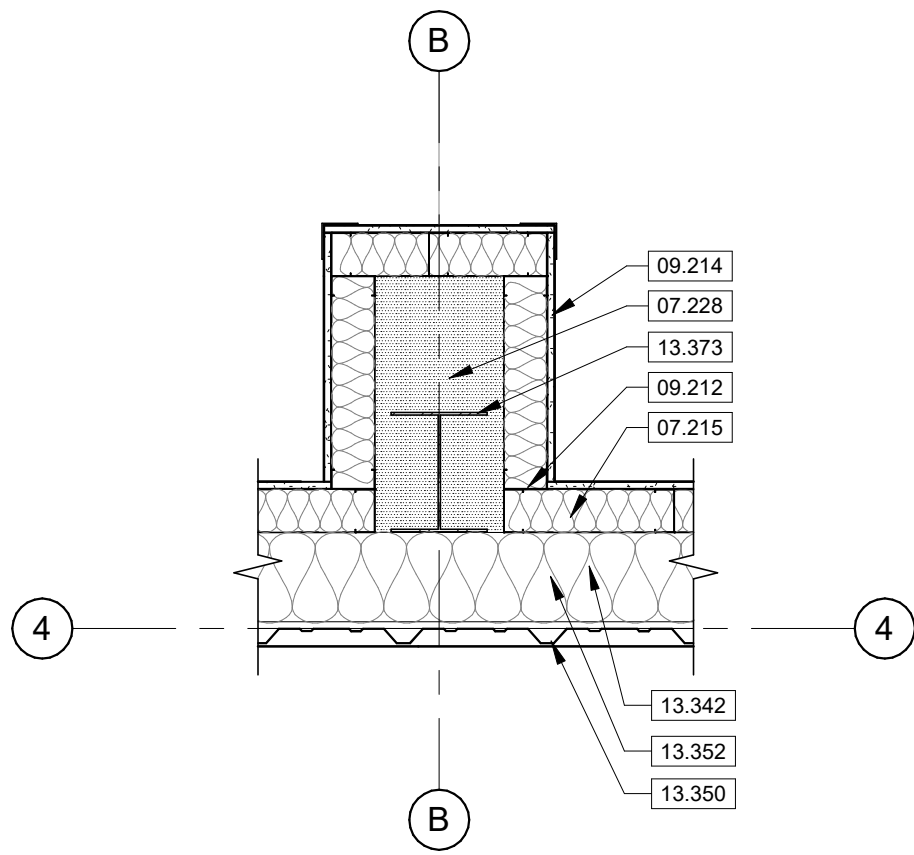
HARDENED WALL CORNER

SCALE 3/4" = 1'-0"



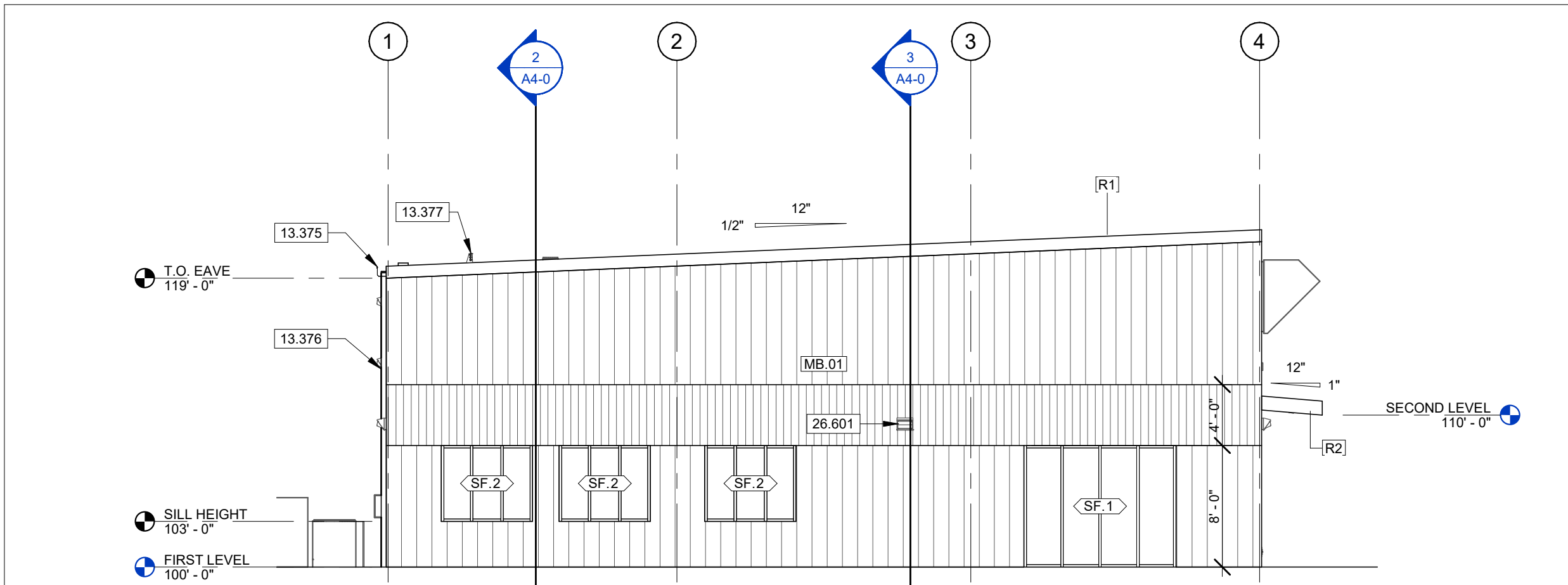
HARDENED WALL CONNECTION
- BID ALT.

SCALE 3/4" = 1'-0"



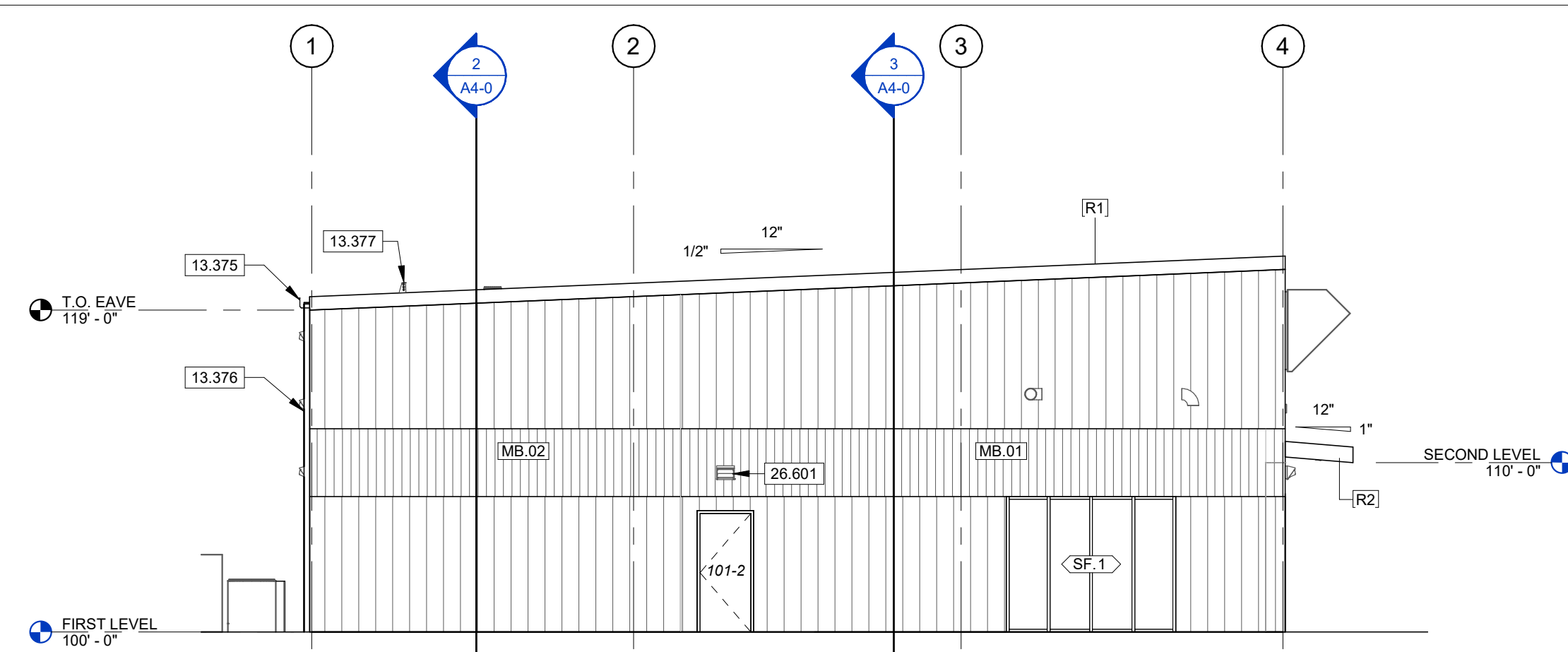
I/S CORNER FRAME

SCALE 3/4" = 1'-0"



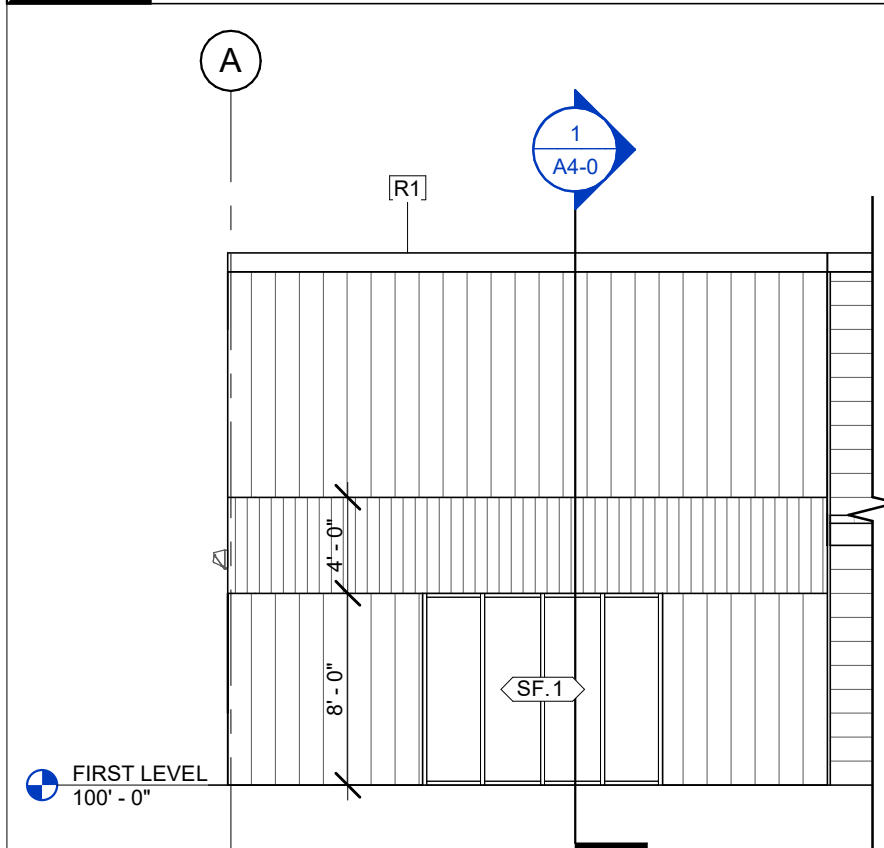
10 WEST ELEVATION ADMIN EXPANSION (BID ALT)

SCALE 1/8" = 1'-0"



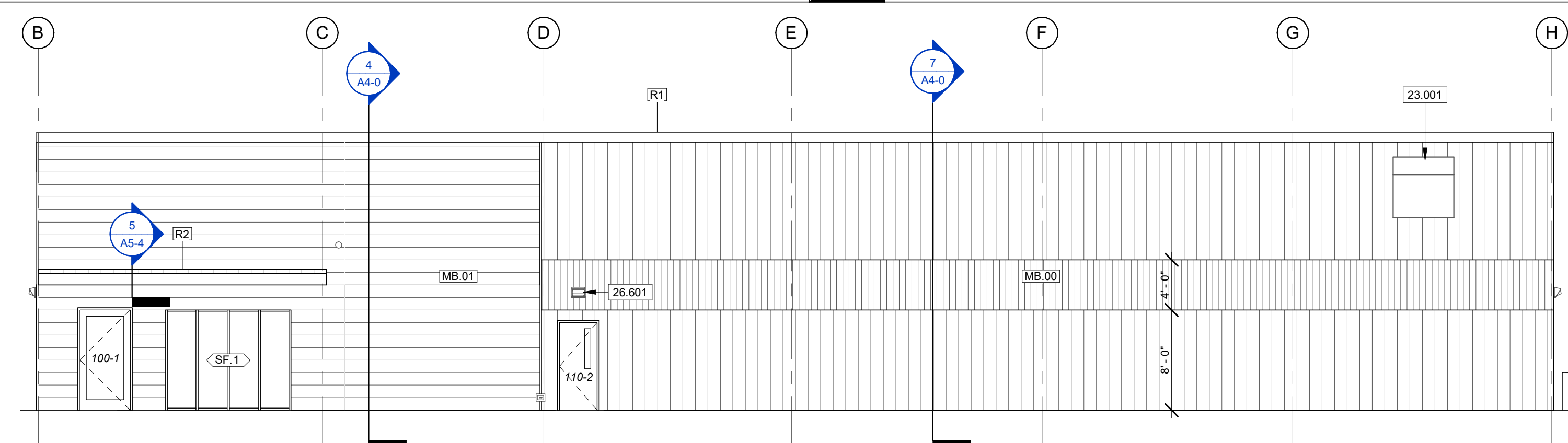
4 WEST ELEVATION BASE BID

SCALE 1/8" = 1'-0"



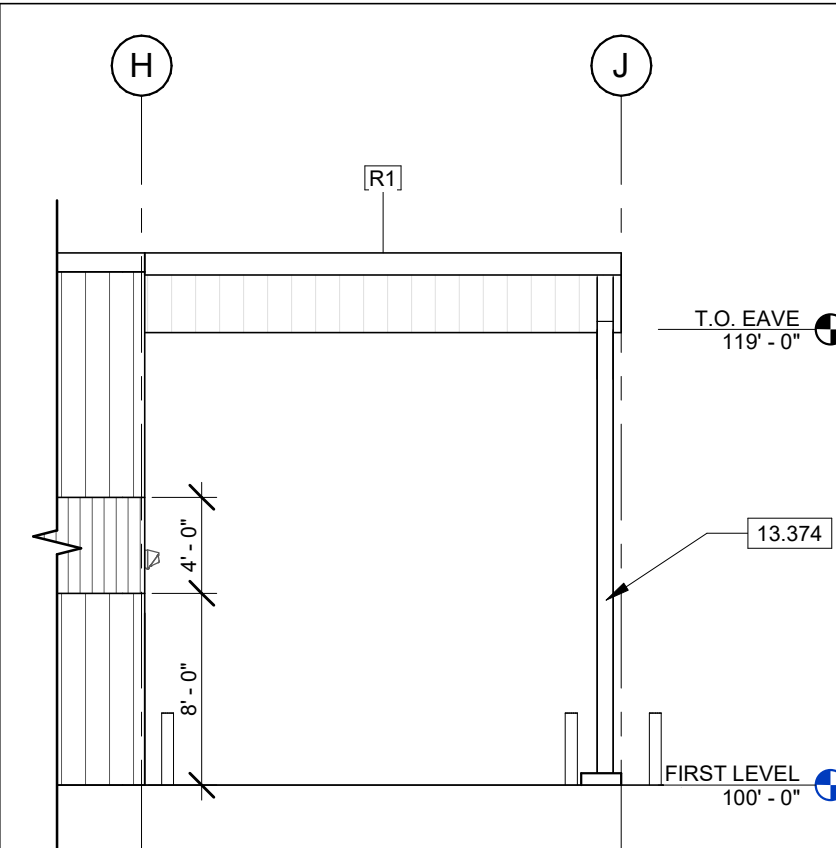
9 SOUTH ELEVATION ADMIN EXP (BID ALT)

SCALE 1/8" = 1'-0"



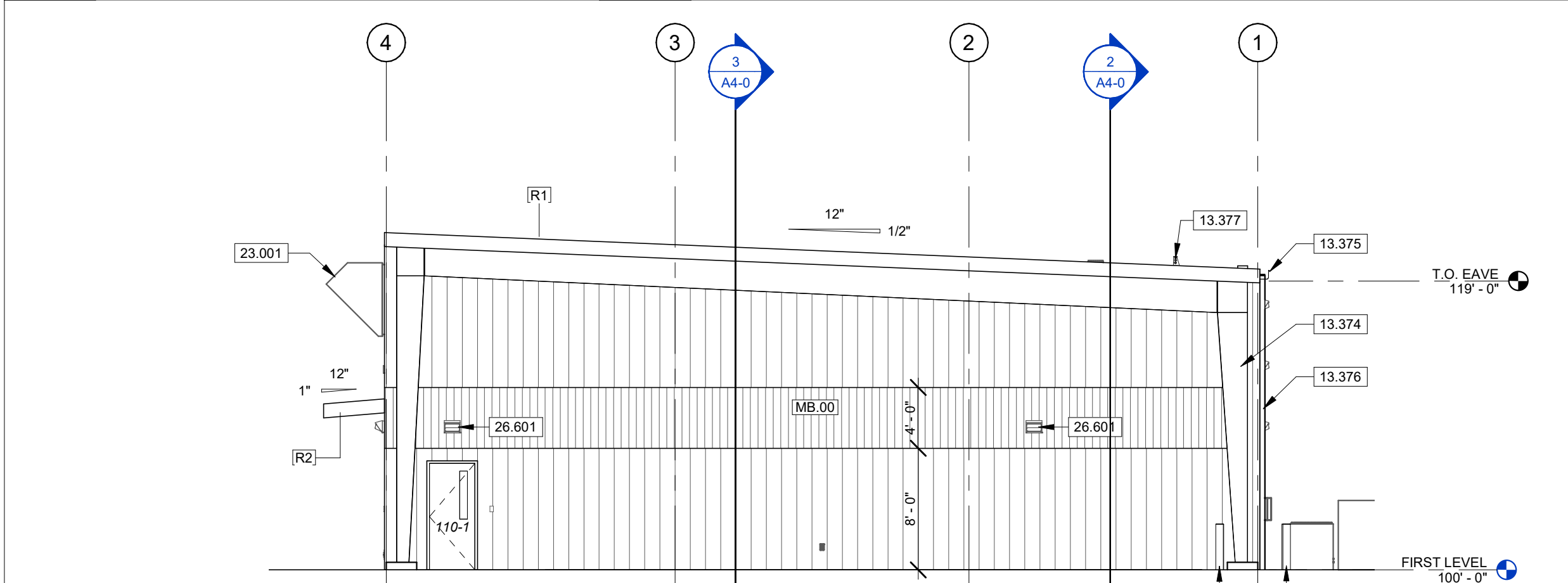
6 SOUTH ELEVATION BASE BID

SCALE 1/8" = 1'-0"



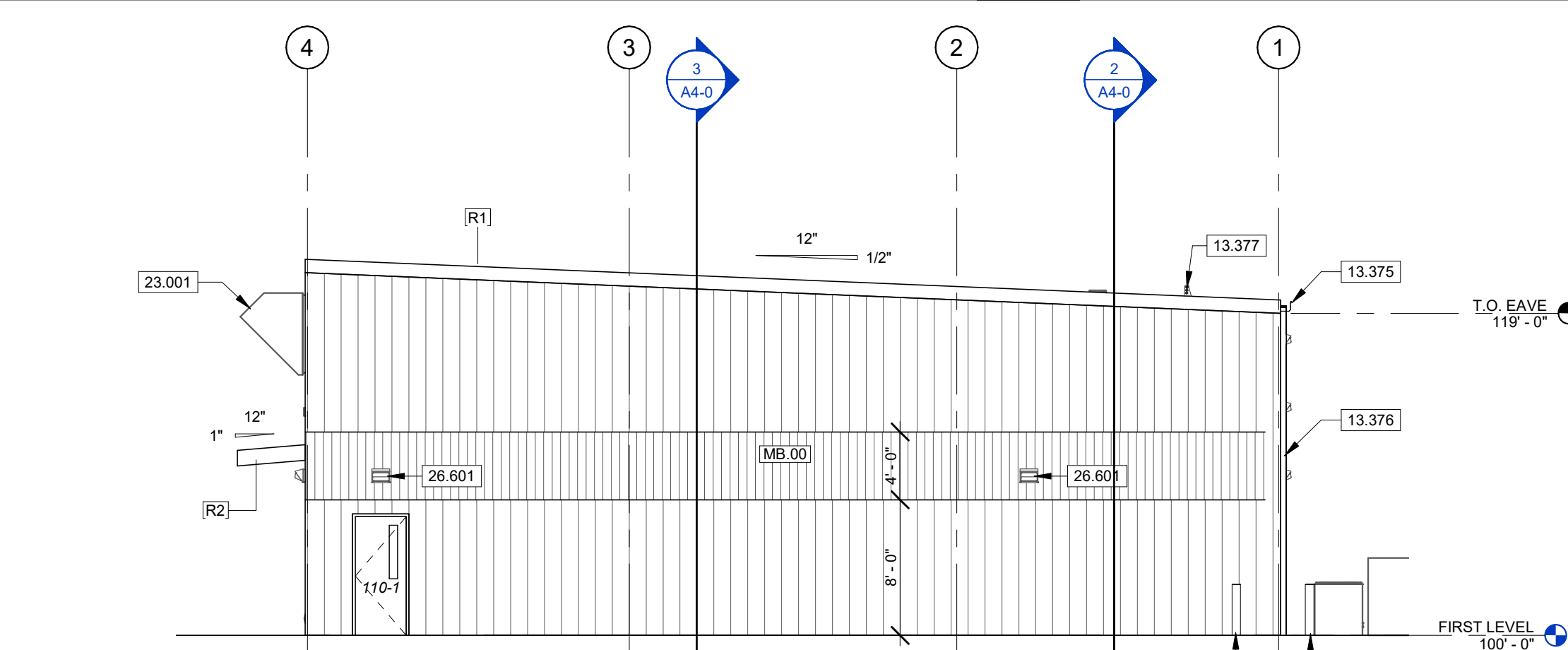
3 SOUTH ELEVATION COVERED BAY (BID ALT)

SCALE 1/8" = 1'-0"



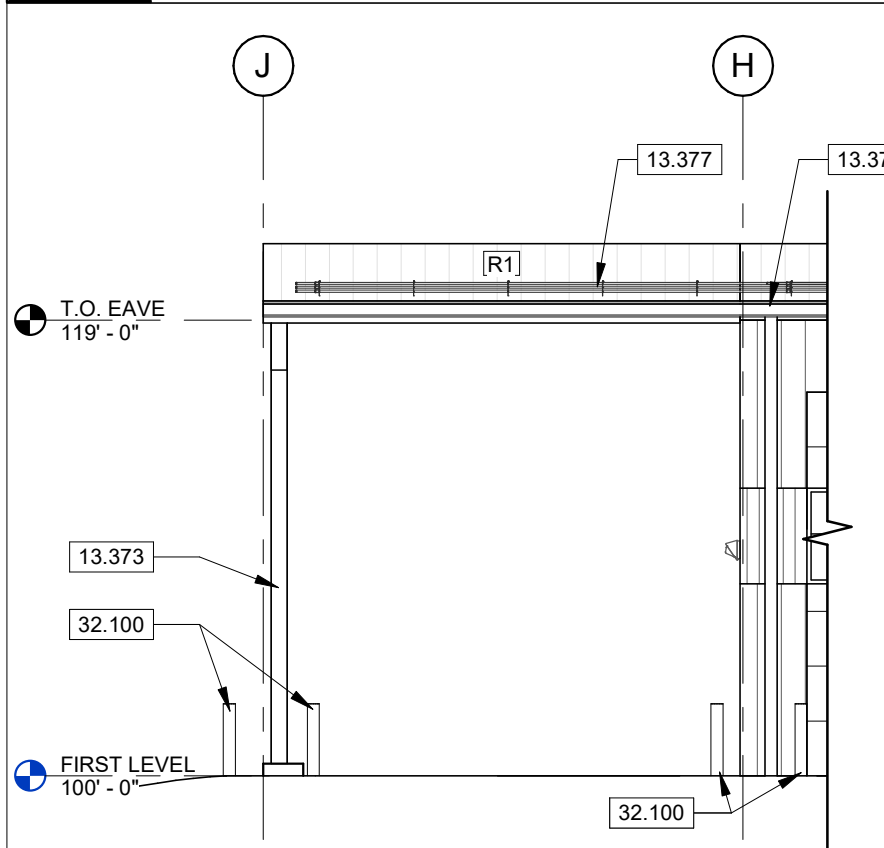
8 EAST ELEVATION COVERED BAY (BID ALT)

SCALE 1/8" = 1'-0"



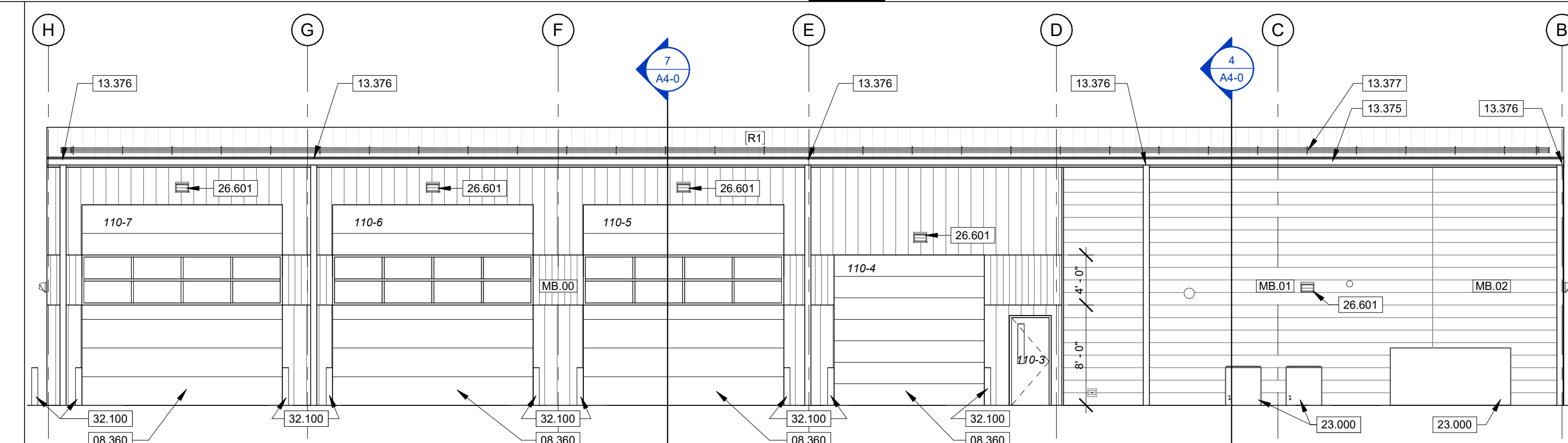
2 EAST ELEVATION BASE BID

SCALE 1/8" = 1'-0"



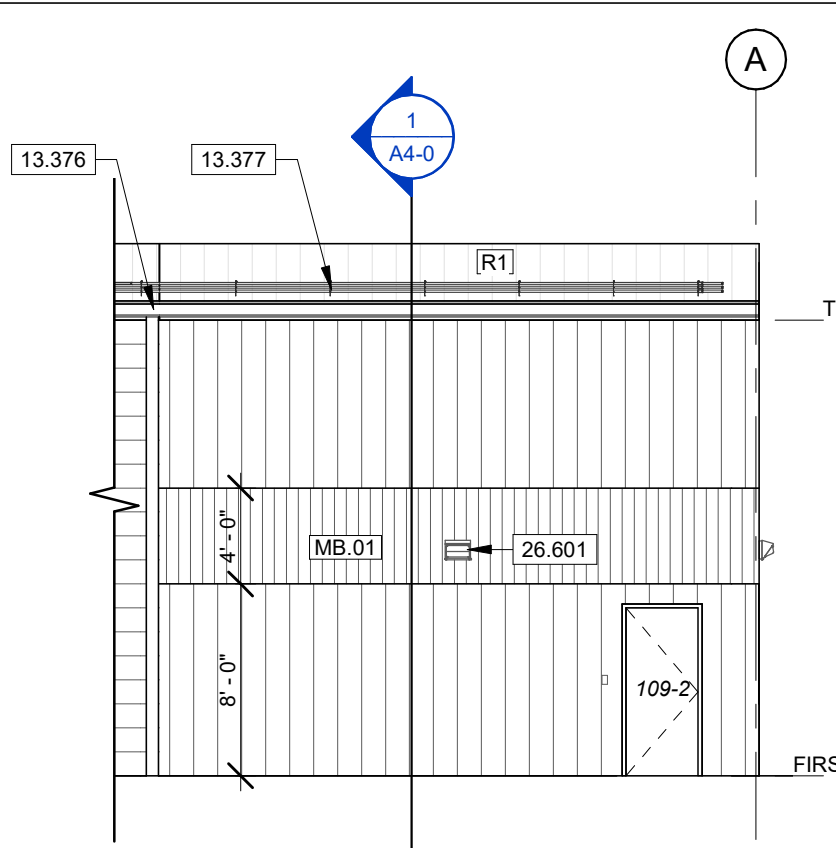
7 NORTH ELEVATION COVERED BAY (BID ALT)

SCALE 1/8" = 1'-0"



5 NORTH ELEVATION BASE BID

SCALE 1/8" = 1'-0"



1 NORTH ELEVATION ADMIN EXP (BID ALT)

SCALE 1/8" = 1'-0"

KEYNOTE LEGEND

08.360	SECTIONAL DOORS. SEE SECTION 08.3616 SECTIONAL DOORS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.374	BID ALTERNATE PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.375	PRE-ENGINEERED METAL BUILDING 7"x7" GUTTER PER MANUFACTURER'S STANDARD DETAILS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.376	PRE-ENGINEERED METAL BUILDING 4"x6" DOWNSPOUT PER MANUFACTURER'S STANDARD DETAILS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.377	SNOW GUARDS. SEE ROOF PLAN FOR LOCATION.
23.000	HVAC. SEE DIVISION 23.0000 SPECIFICATIONS.
23.001	PACKAGED WALL FAN. COORDINATE FINISH WITH ARCHITECT. SEE MEP. SEE DIVISION 23.0000 SPECIFICATIONS.
26.601	EXTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.
32.100	BOLLARD. REFER TO PLAN DETAILS FOR TYPICAL BOLLARD LOCATION IN REFERENCE TO OVERHEAD DOORS.

EXTERIOR WALL SCHEDULE

MB.00	PRE-ENGINEERED METAL BUILDING PANEL ON 8" GIRTS WITH REINFORCED WHITE VINYL FACED FIBERGLASS INSULATION OVER PRE-ENGINEERED METAL BUILDING SUPERSTRUCTURE WITH INTERIOR LINER PANELS. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE R-13 TYPICAL PEMB BAG INSULATION AND VAPOR RETARDER.
MB.01	PRE-ENGINEERED METAL BUILDING PANEL ON 8" GIRTS WITH REINFORCED WHITE VINYL FACED FIBERGLASS INSULATION OVER PRE-ENGINEERED METAL BUILDING SUPERSTRUCTURE. 3/8" METAL STUD AT 16" O.C. WITH GYPSUM BOARD ON INTERIOR FACE. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE R-13 FIBERGLASS INSULATION AND VAPOR RETARDER.
MB.02	PRE-ENGINEERED METAL BUILDING PANEL ON 8" GIRTS WITH REINFORCED WHITE VINYL FACED FIBERGLASS INSULATION OVER PRE-ENGINEERED METAL BUILDING SUPERSTRUCTURE. GIRTS ENGINEERED BY METAL BUILDING MANUFACTURER. PROVIDE R-13 FIBERGLASS INSULATION AND VAPOR RETARDER.

ROOF SCHEDULE

R1	STANDING SEAM METAL ROOF PANELS ATTACHED TO PRE-ENGINEERED METAL BUILDING ROOF PURLINS WITH SINGLE LAYER INSULATION SYSTEM - BASIS OF DESIGN TO BE SIMPLE SAVER SYSTEM. PROVIDE 9" THICK LOWER INSULATION LAYER. TOTAL R-VALUE OF R-30 PROVIDE STEEL STRAPS AND FABRIC LINER SYSTEM.
R2	STANDING SEAM METAL ROOF PANELS ATTACHED TO PRE-ENGINEERED METAL BUILDING ROOF PURLIN.
R3	STANDING SEAM METAL ROOF PANELS ATTACHED TO PRE-ENGINEERED METAL BUILDING ROOF PURLINS OVER PEMB SUPERSTRUCTURE.

METAL PANEL TYPE LEGEND

	VERTICAL METAL PANEL 1 - BASIS OF DESIGN: MB01 PBR PANELS. COLOR: AZTEC GOLD.
	VERTICAL METAL PANEL 2 - BASIS OF DESIGN: MB01 7.2 PANELS. COLOR: POLAR WHITE.
	HORIZONTAL METAL PANEL - BASIS OF DESIGN: MB01 PBR PANEL. COLOR: DESERT SAND.



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REVISION SCHEDULE

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT DESCRIPTION:

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

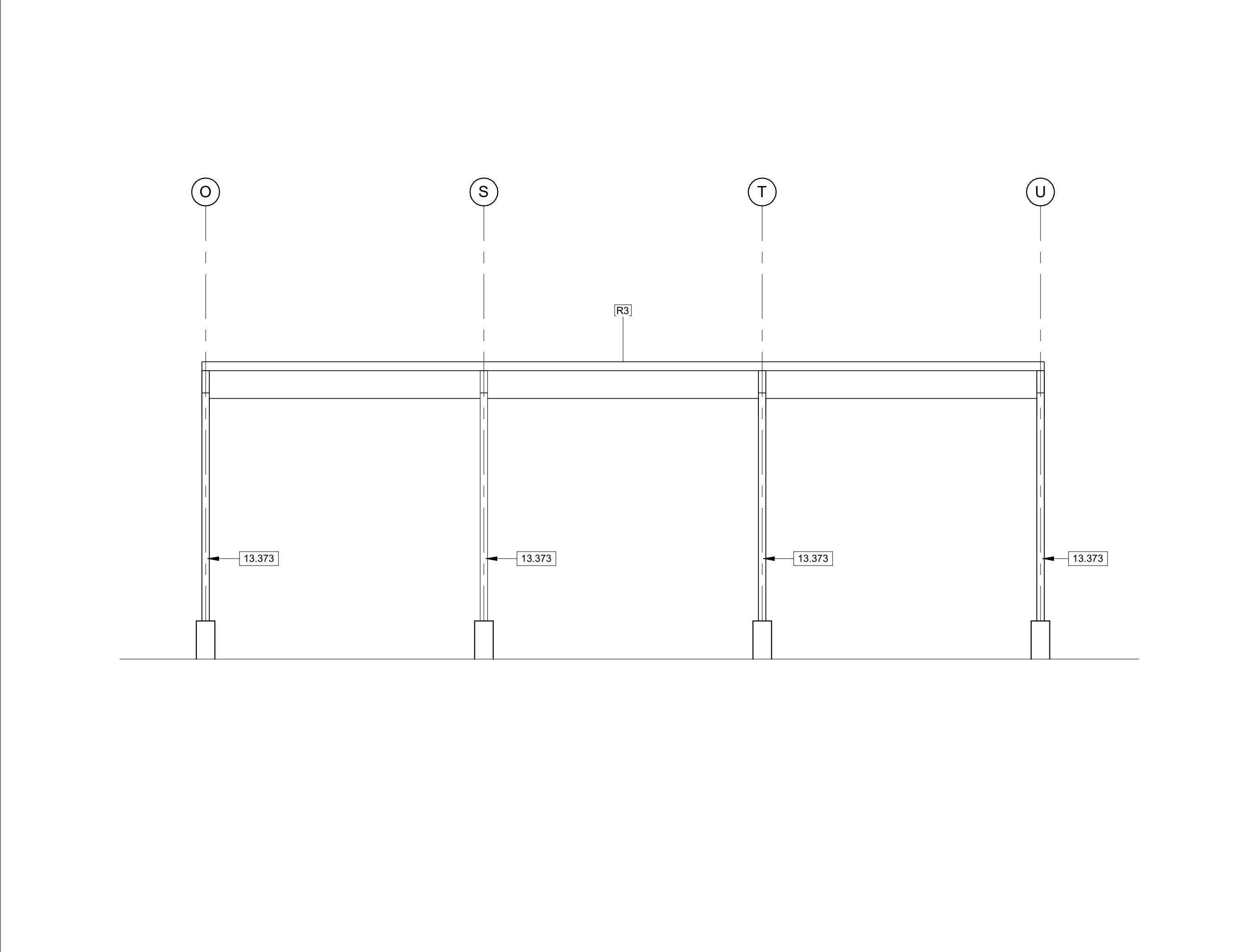
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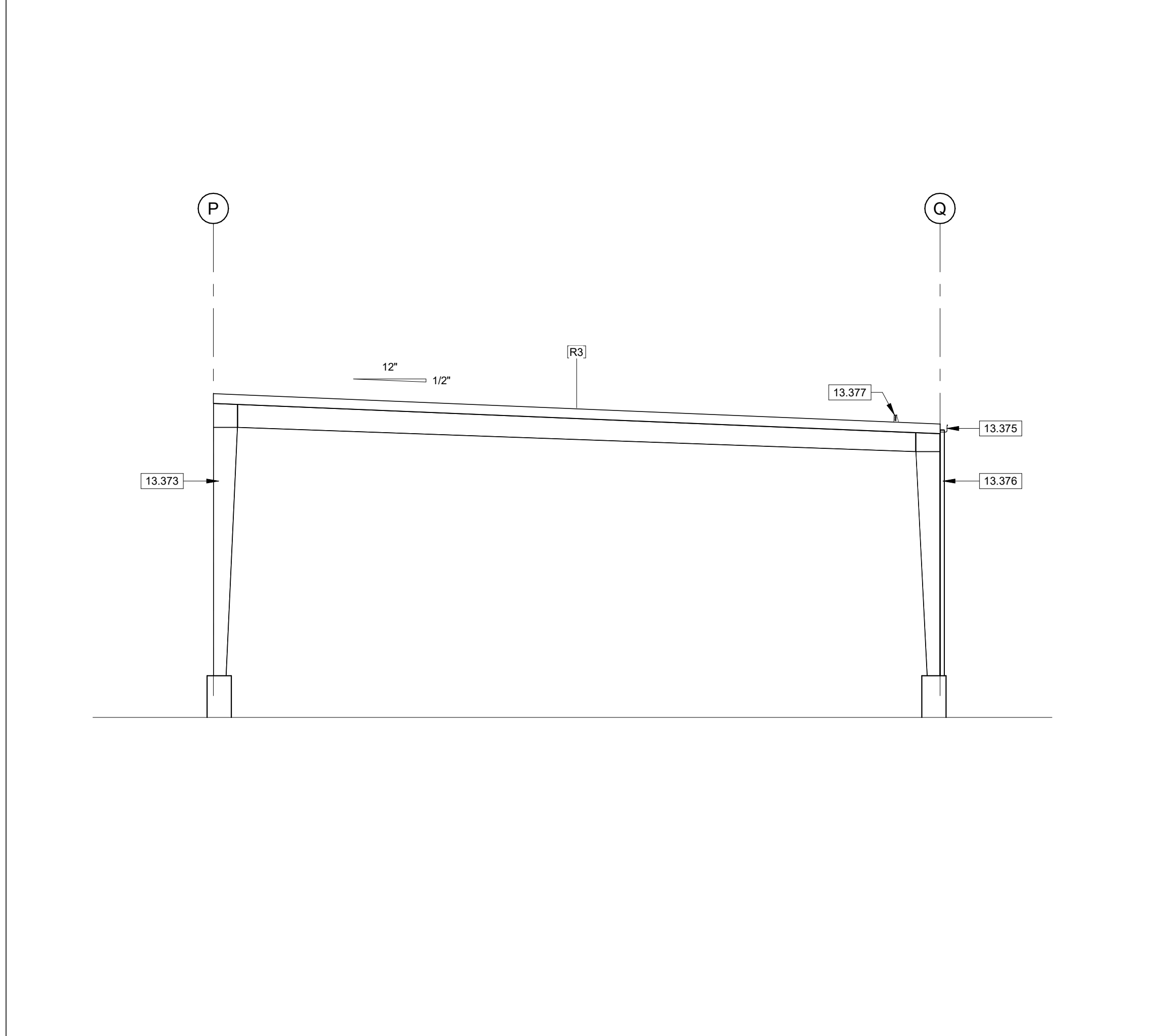
EXTERIOR ELEVATIONS

SHEET NUMBER:

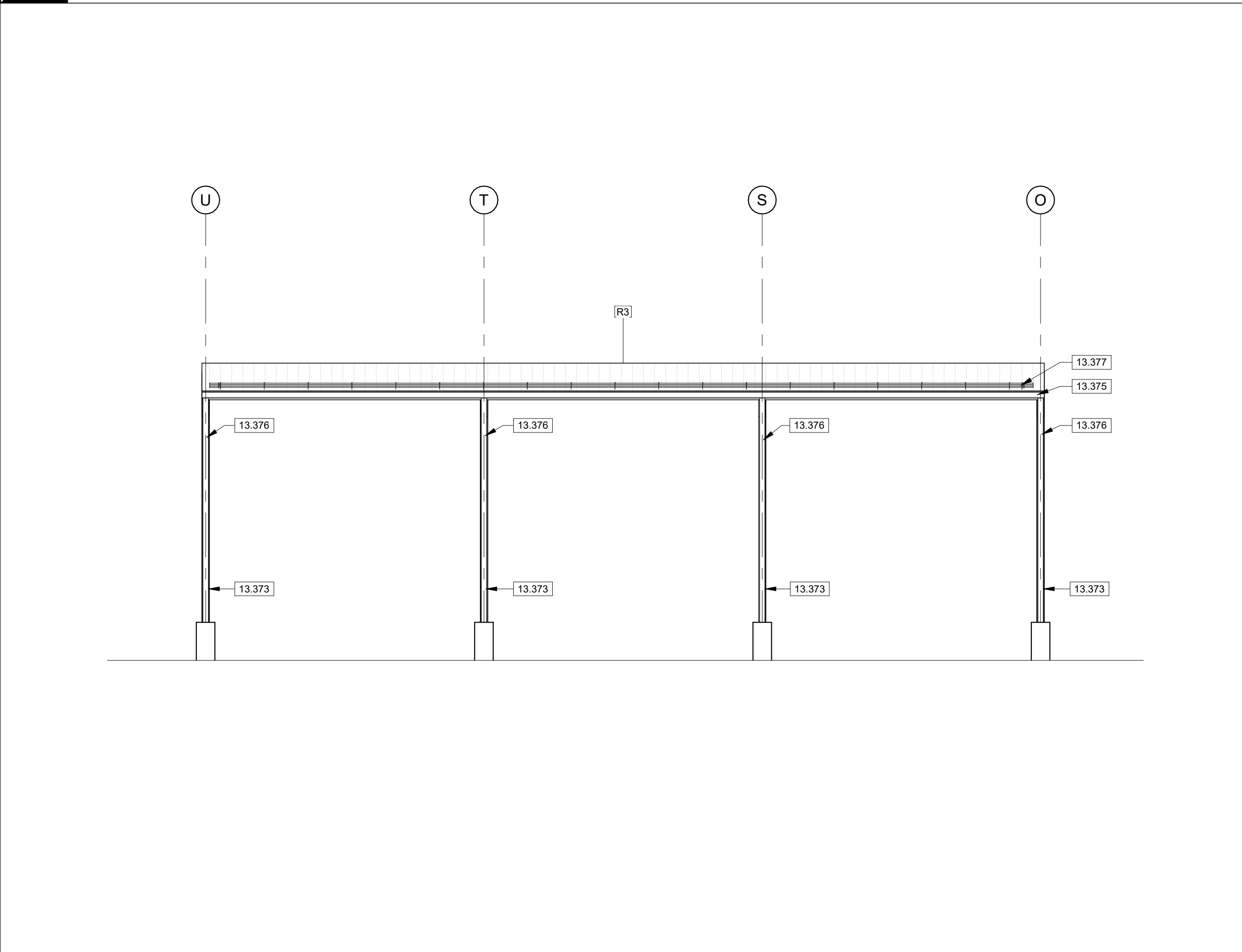
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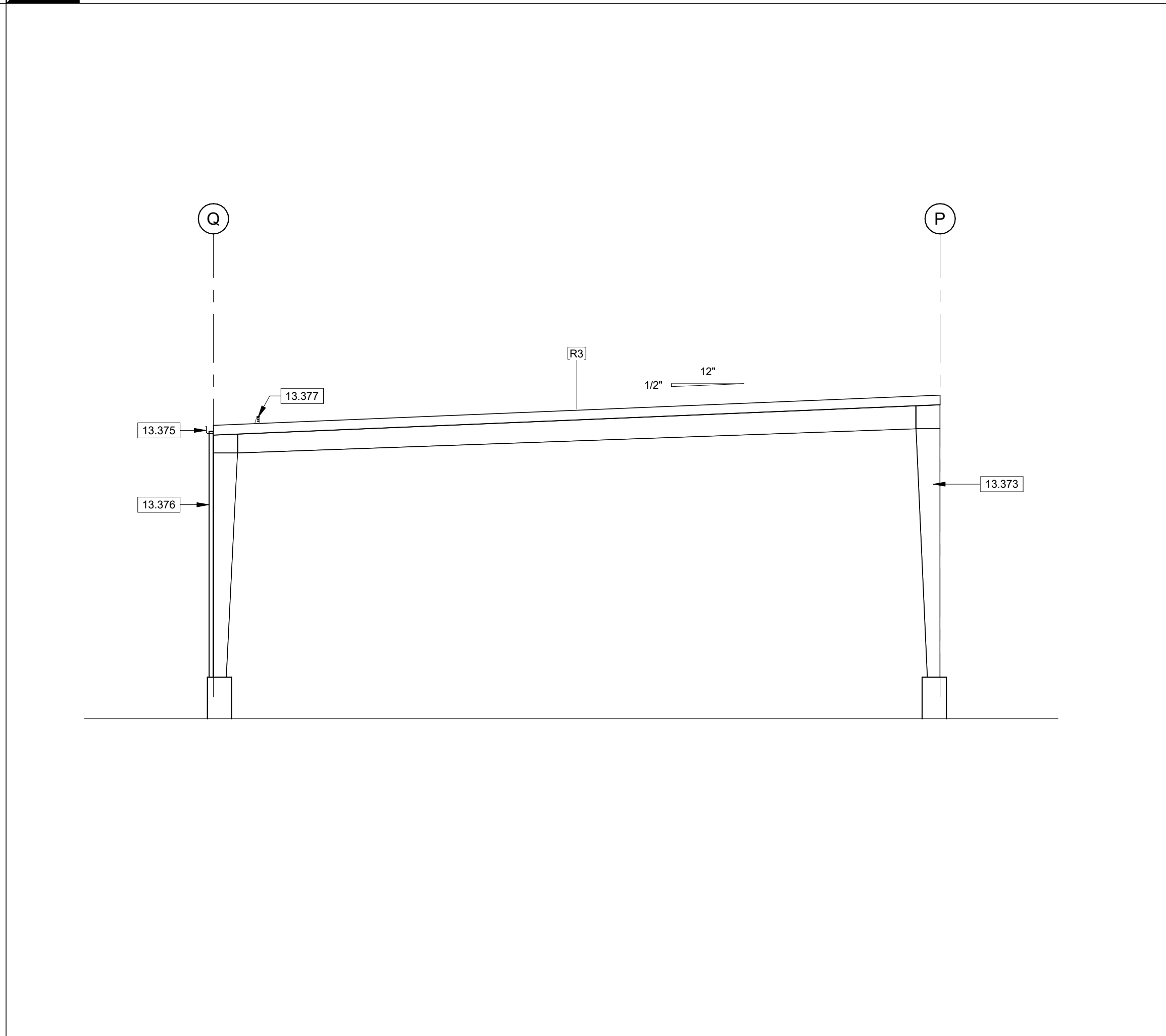
4 EAST ELEVATION - COVERED STORAGE
SCALE 1/8" = 1'-0"



2 NORTH ELEVATION - COVERED STORAGE
SCALE 1/8" = 1'-0"




3 WEST ELEVATION - COVERED STORAGE
SCALE 1/8" = 1'-0"



1 SOUTH ELEVATION - COVERED STORAGE
SCALE 1/8" = 1'-0"

KEYNOTE LEGEND	
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.375	PRE-ENGINEERED METAL BUILDING 7"x7" GUTTER PER MANUFACTURER'S STANDARD DETAILS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.376	PRE-ENGINEERED METAL BUILDING 4"x6" DOWNSPOUT PER MANUFACTURER'S STANDARD DETAILS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.377	SNOW GUARDS. SEE ROOF PLAN FOR LOCATION.

ROOF SCHEDULE	
R1	STANDING SEAM METAL ROOF PANELS ATTACHED TO PRE-ENGINEERED METAL BUILDING ROOF PURLINS WITH SINGLE LAYER INSULATION SYSTEM - BASIS OF DESIGN TO BE SIMPLE SAVER SYSTEM PROVIDE 9" THICK LOWER INSULATION LAYER. TOTAL R-VALUE OF R-30 PROVIDE STEEL STRAPS AND FABRIC LINER SYSTEM.
R2	STANDING SEAM METAL ROOF PANELS ATTACHED TO PRE-ENGINEERED METAL BUILDING ROOF PURLIN.
R3	STANDING SEAM METAL ROOF PANELS ATTACHED TO PRE-ENGINEERED METAL BUILDING ROOF PURLINS OVER PEMB SUPERSTRUCTURE.




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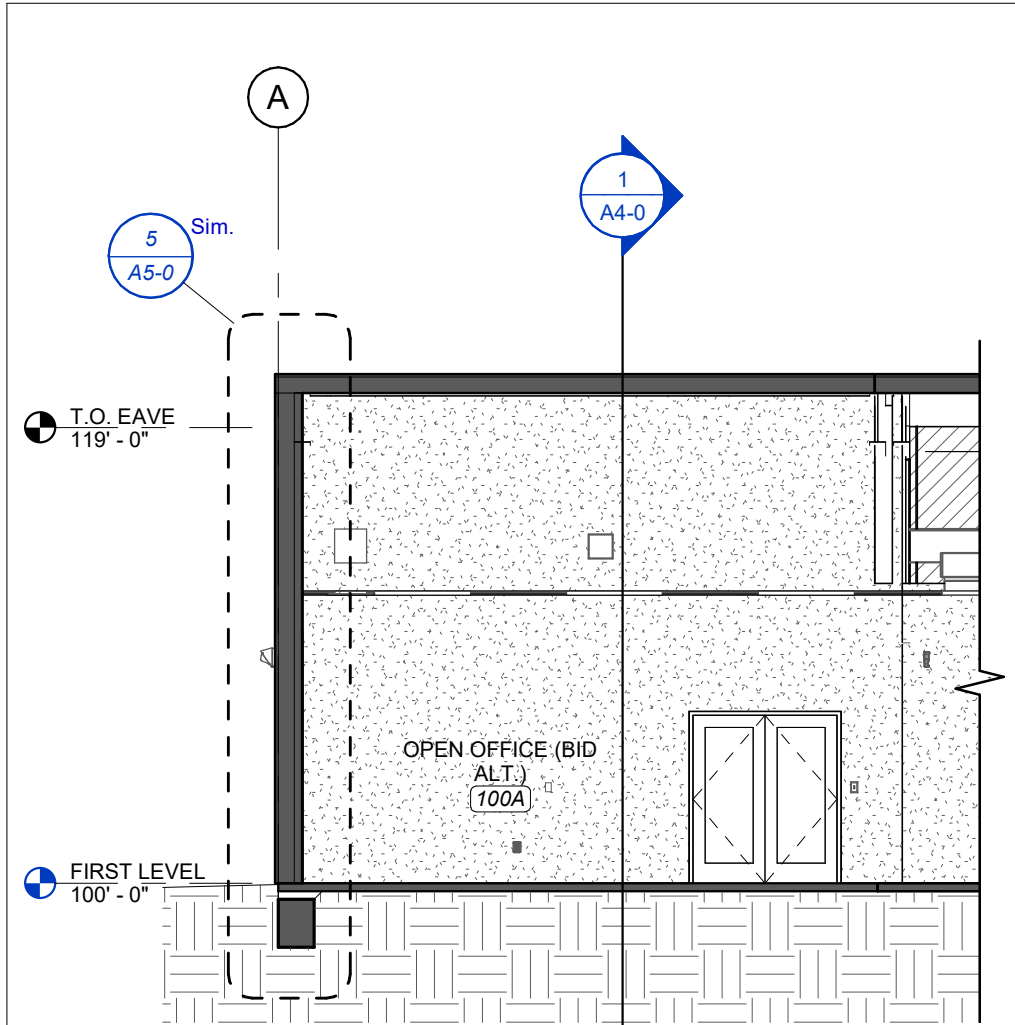
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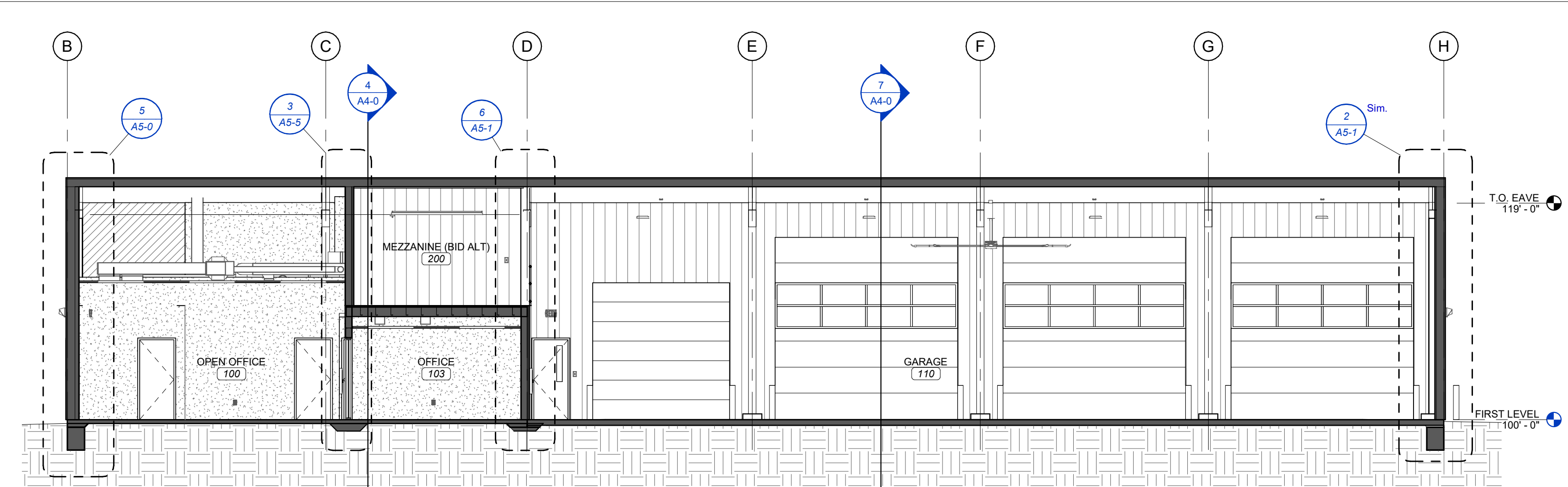
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EXTERIOR ELEVATIONS

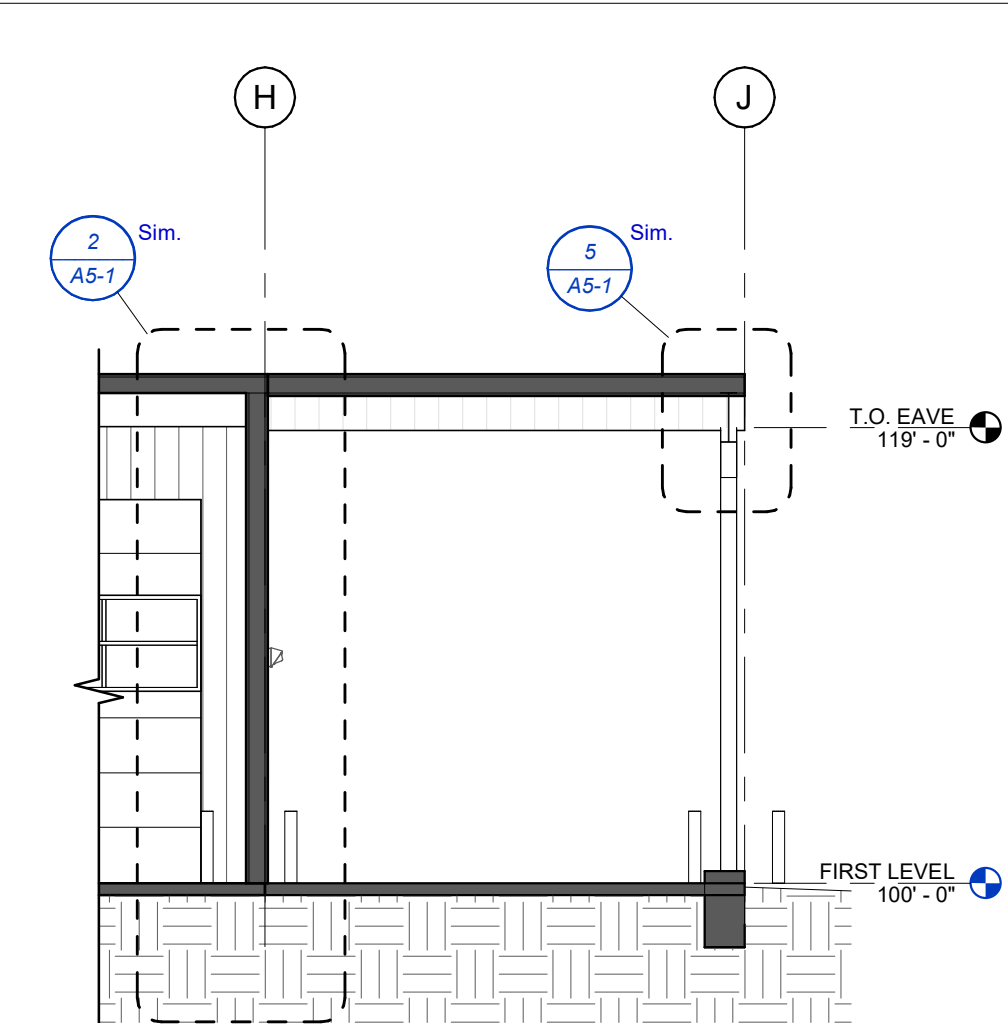
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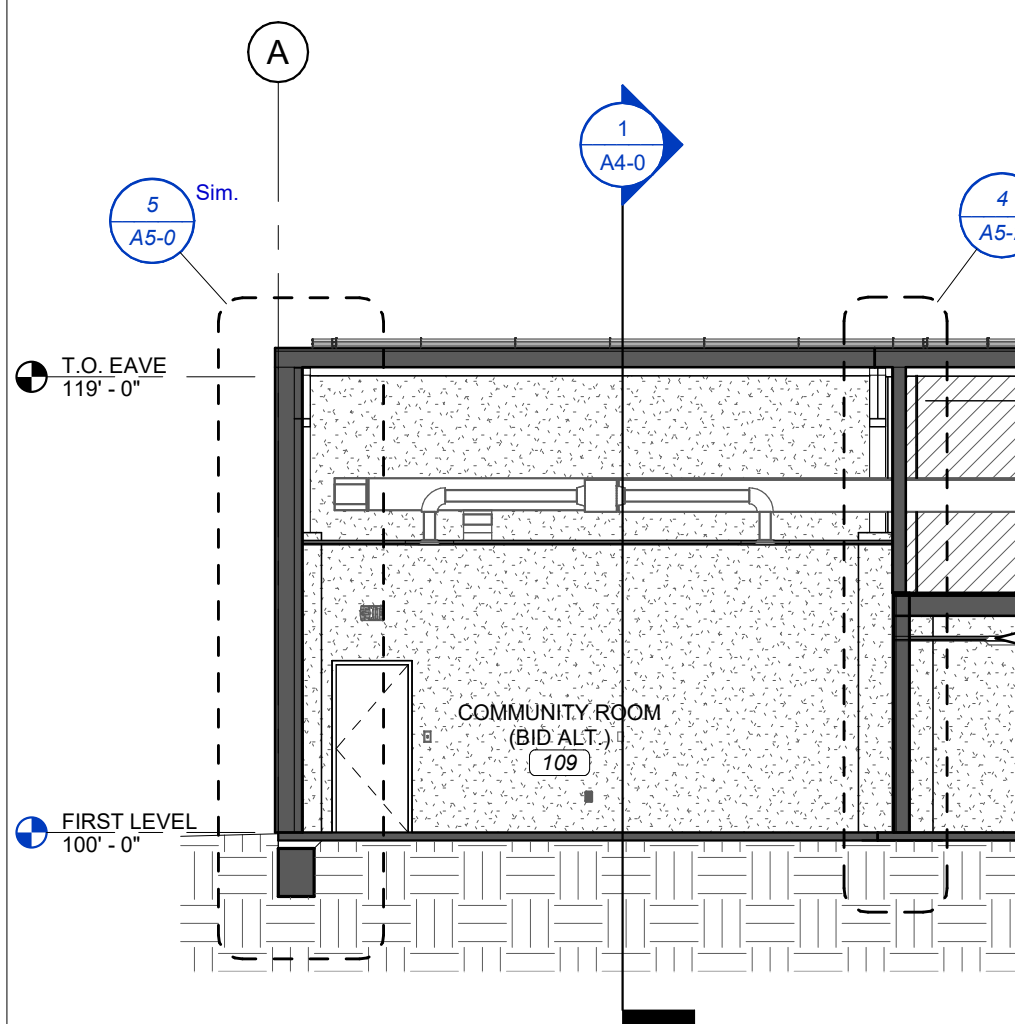
9 E-W #2 BID ALT -
ADMIN EXPANSION
SCALE 1/8" = 1'-0"



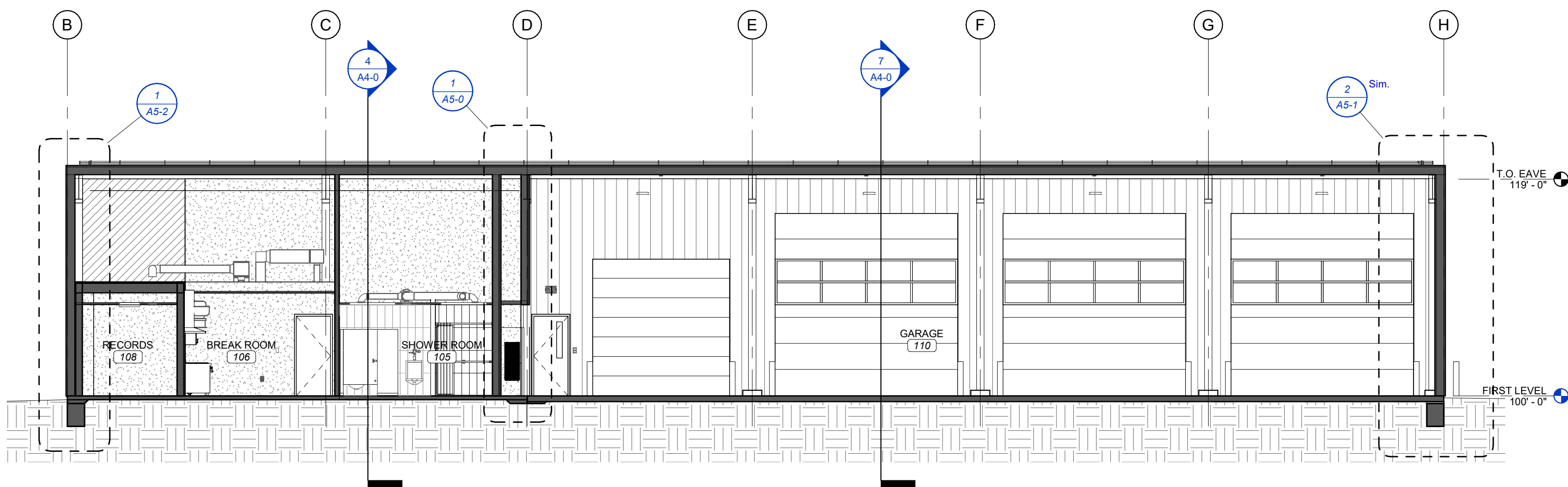
6 BUILDING SECTION - E-W #2
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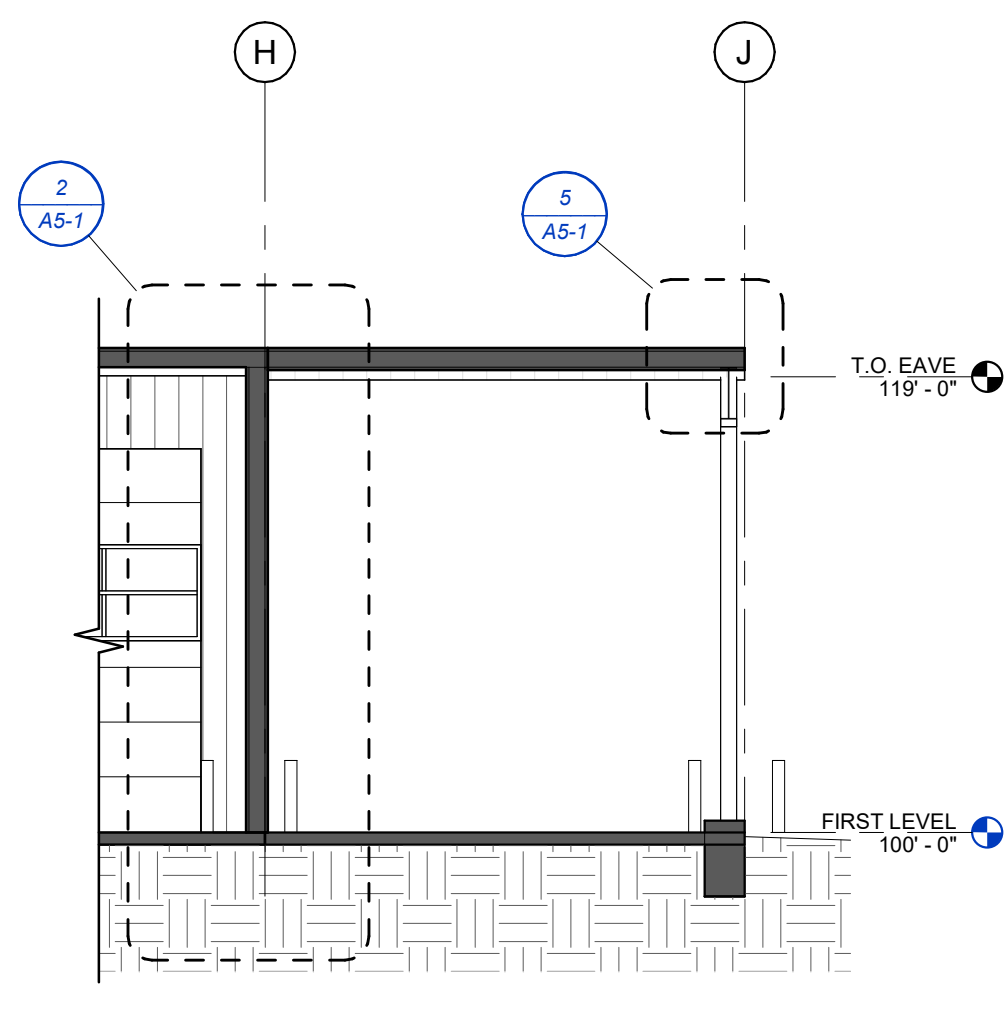
3 E-W #2 BID ALT -
COVERED BAY
SCALE 1/8" = 1'-0"



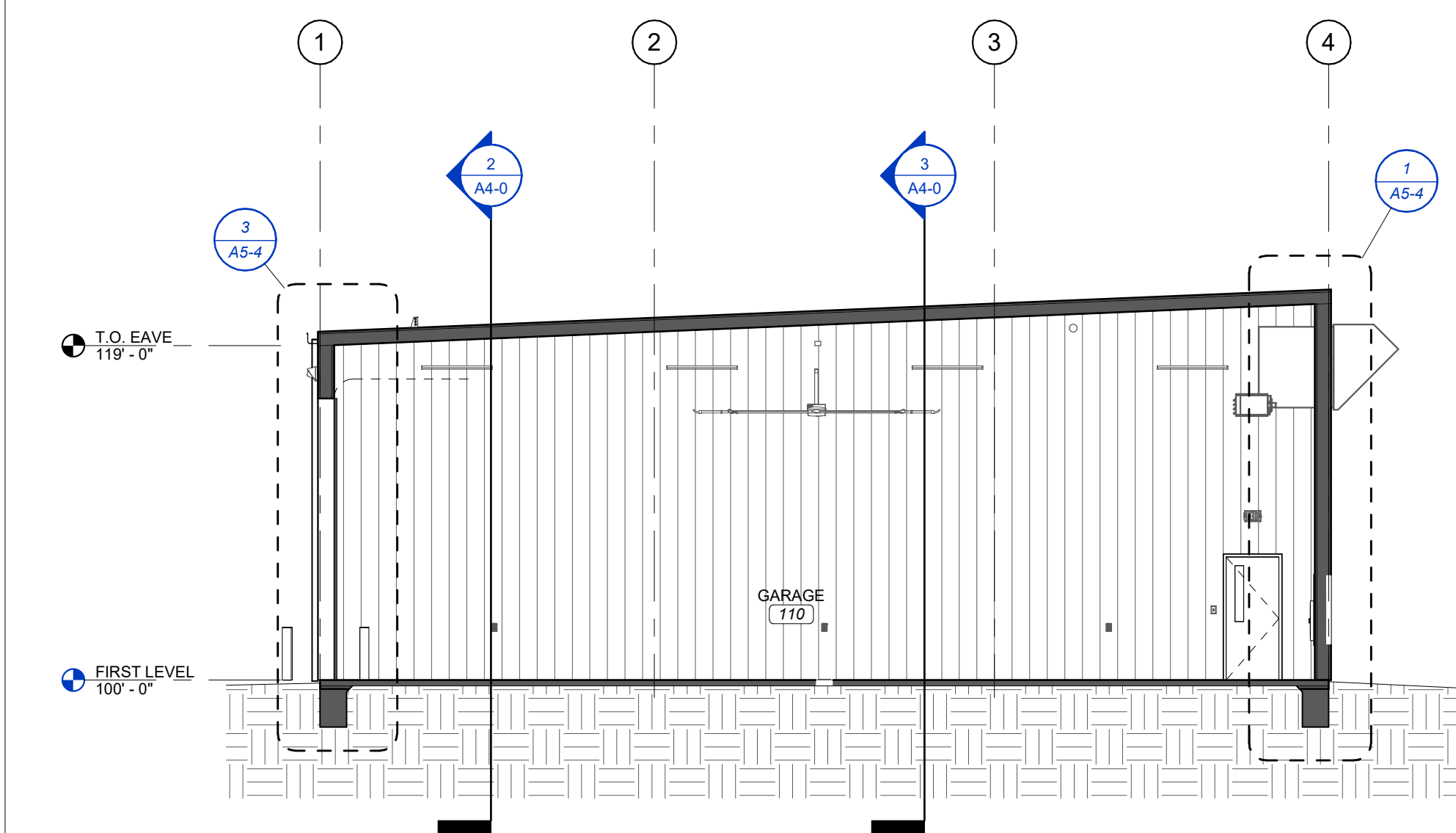
8 E-W #1 BID ALT -
ADMIN EXPANSION
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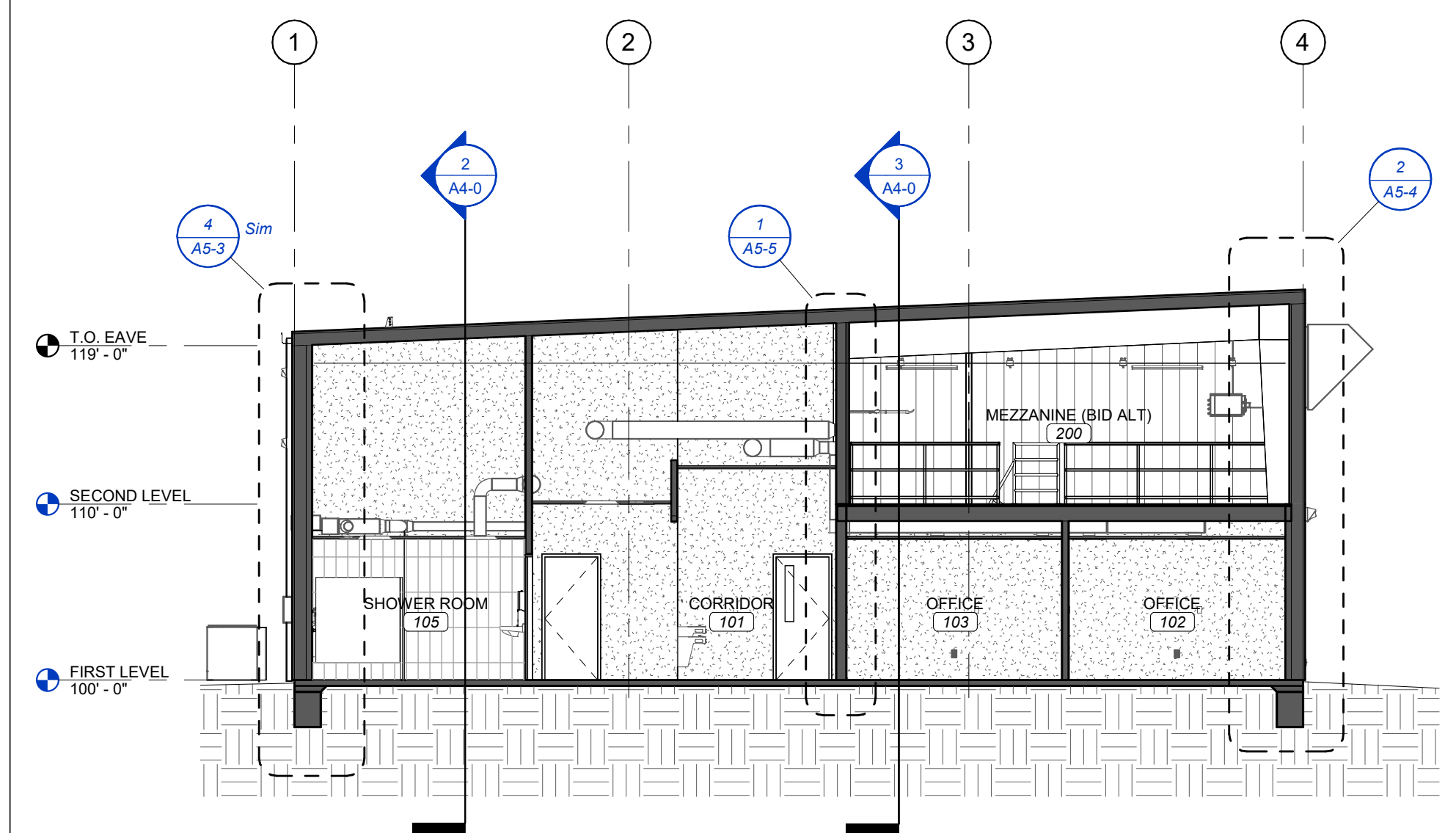
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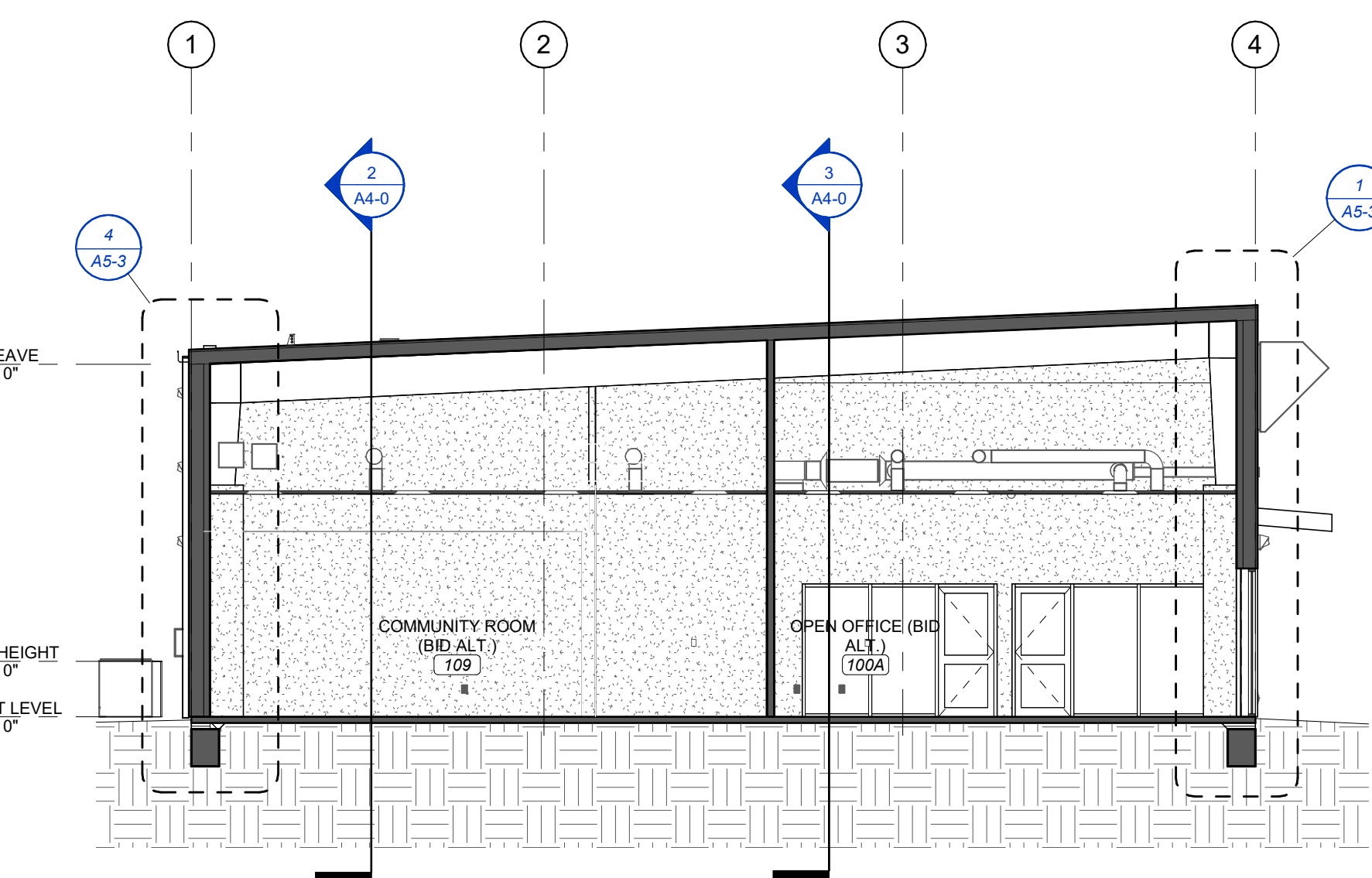
2 E-W #1 BID ALT -
COVERED BAY
SCALE 1/8" = 1'-0"



7 BUILDING SECTION - N-S #3
SCALE 1/8" = 1'-0"



4 BUILDING SECTION - N-S #2
SCALE 1/8" = 1'-0"



1 N-S #1 BID ALT - ADMIN EXPANSION
SCALE 1/8" = 1'-0"



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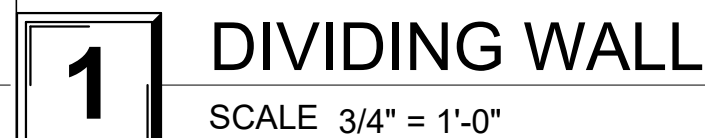
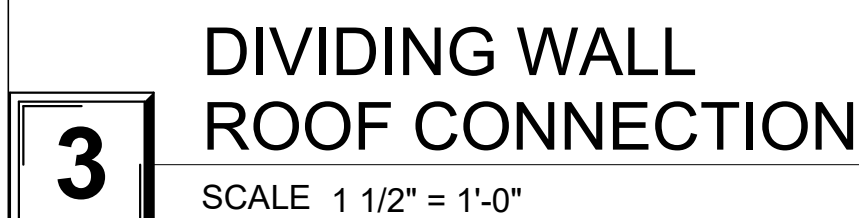
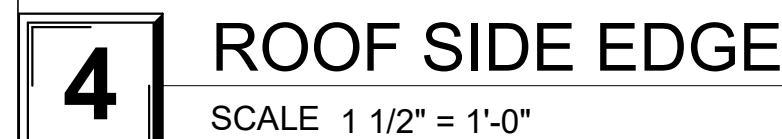
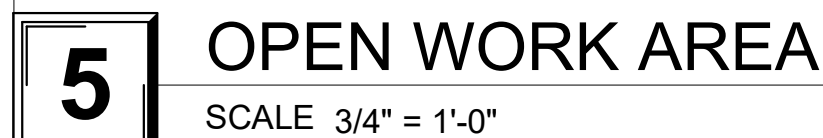
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**BUILDING
SECTIONS**

SHEET NUMBER:
A4-0



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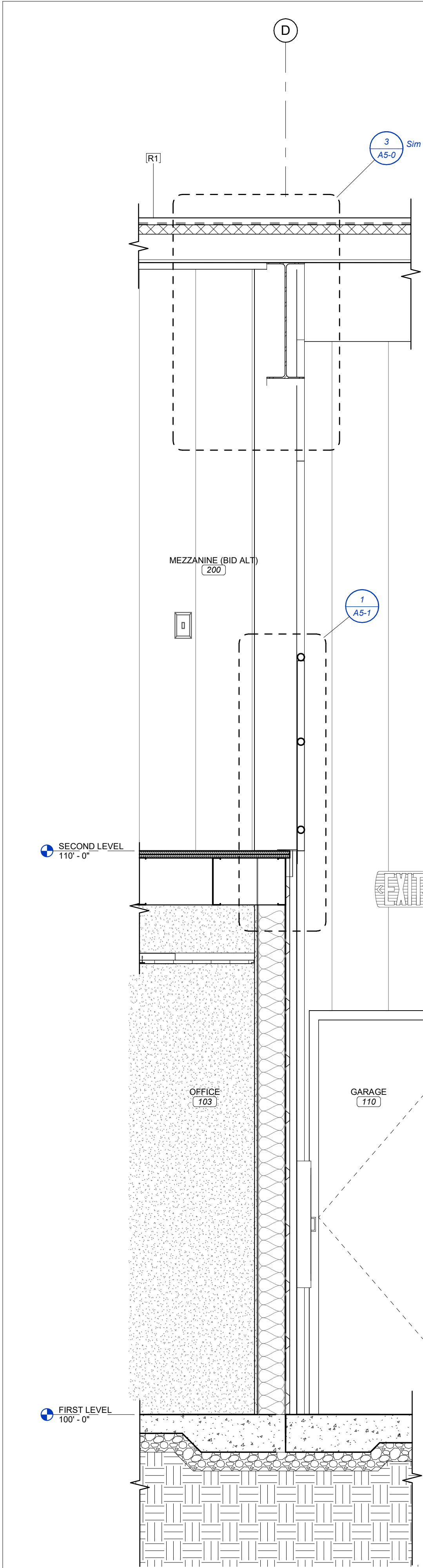
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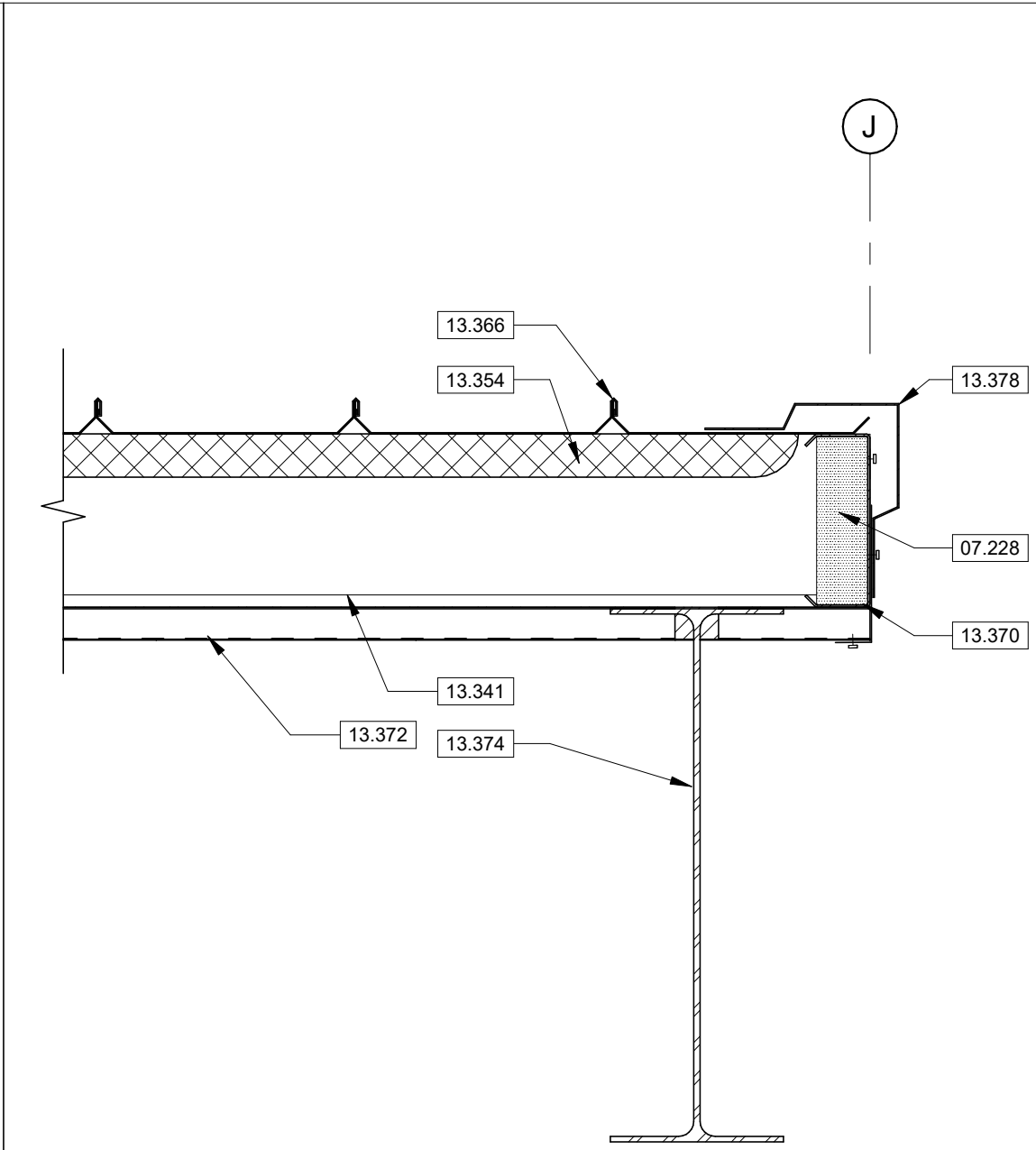
WALL DETAILS

SHEET NUMBER:

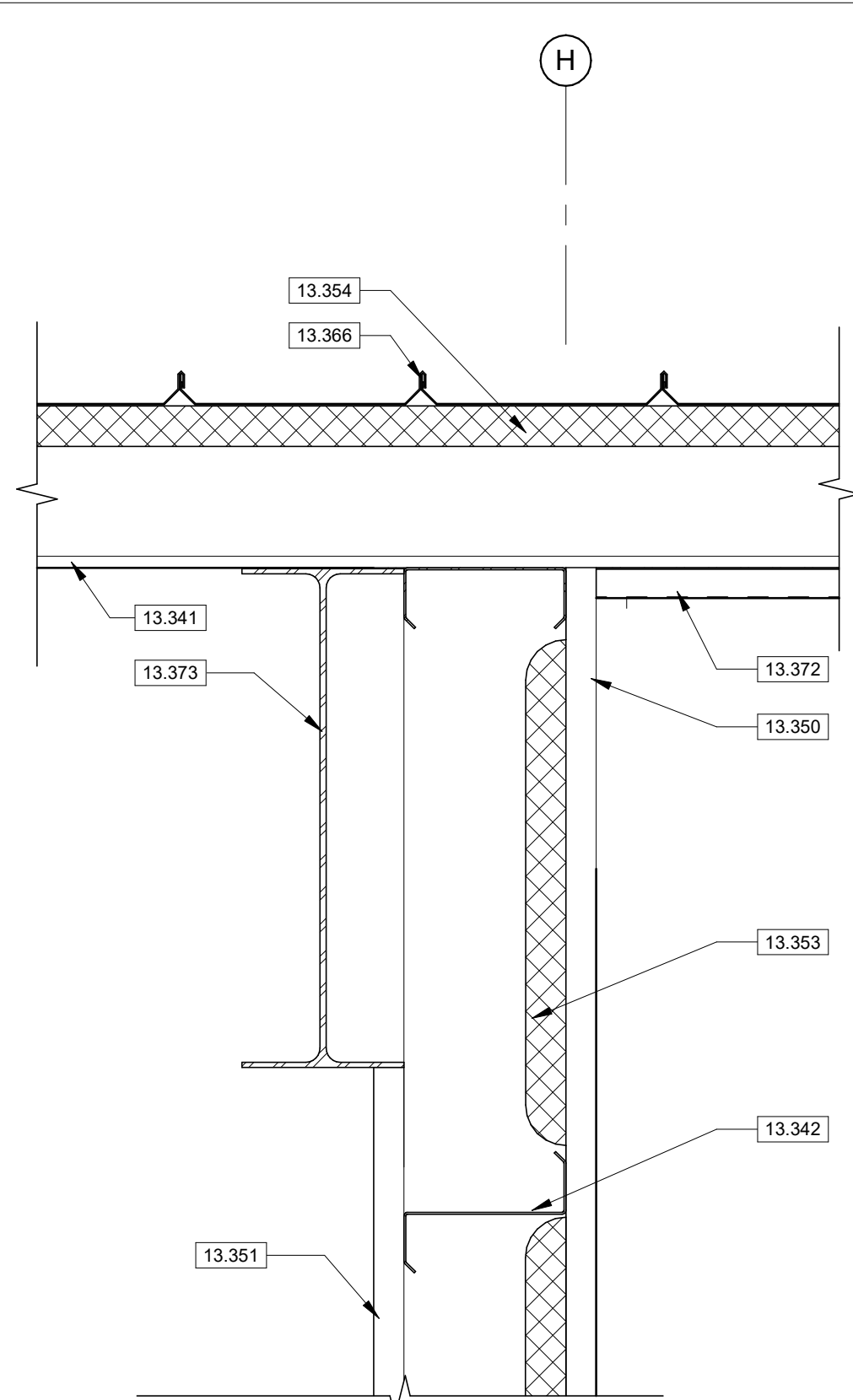
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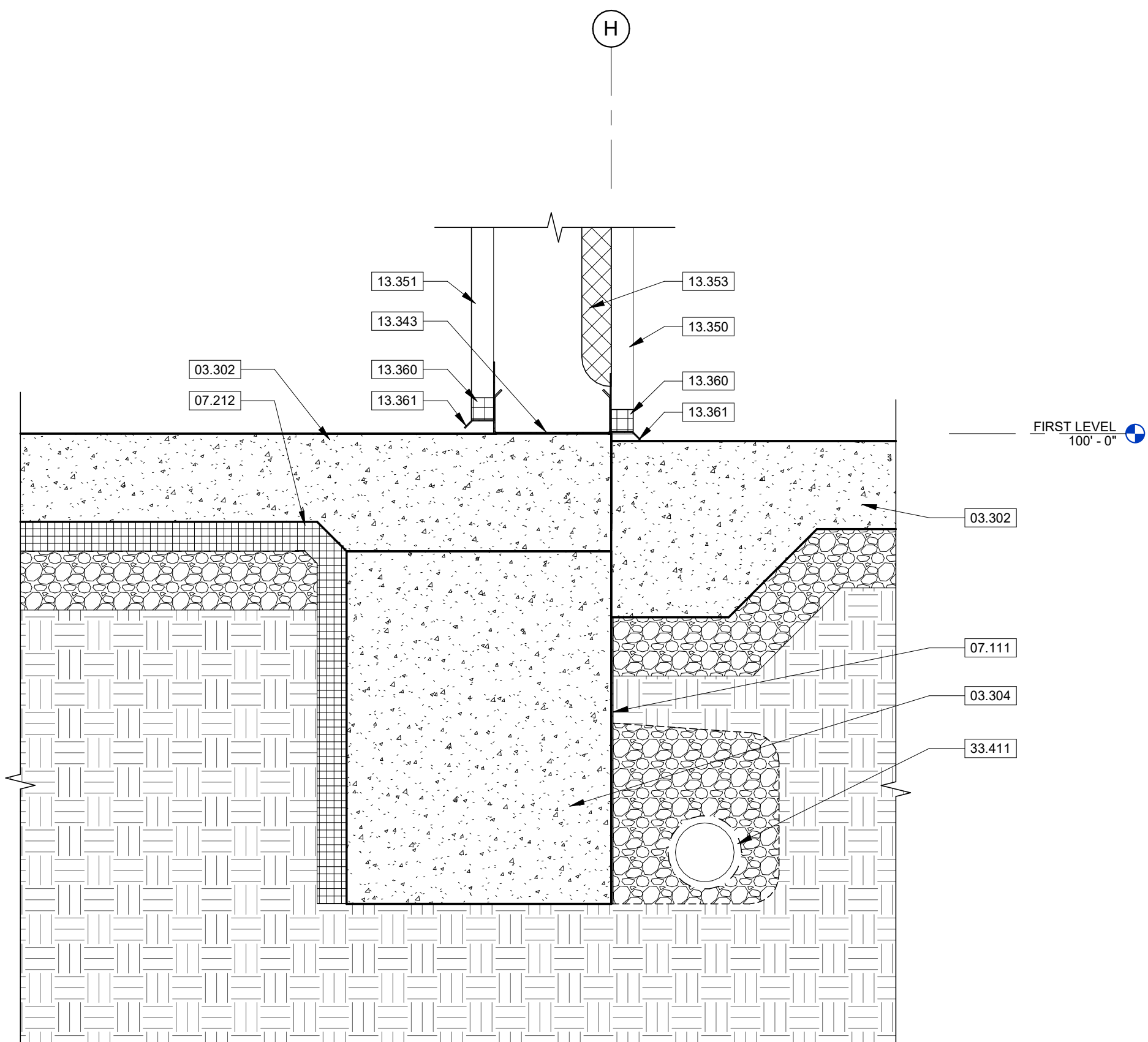
6 GARAGE DIVIDING WALL
SCALE 3/4" = 1'-0"



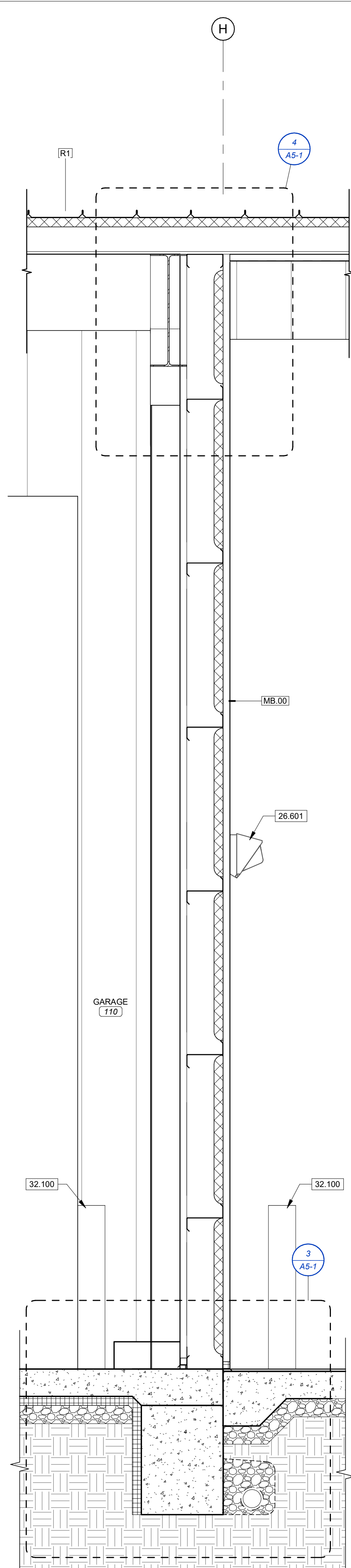
5 ROOF EDGE CONNECTION - BID ALT.
SCALE 1 1/2" = 1'-0"



4 GARAGE END WALL ROOF CONNECTION
SCALE 1 1/2" = 1'-0"

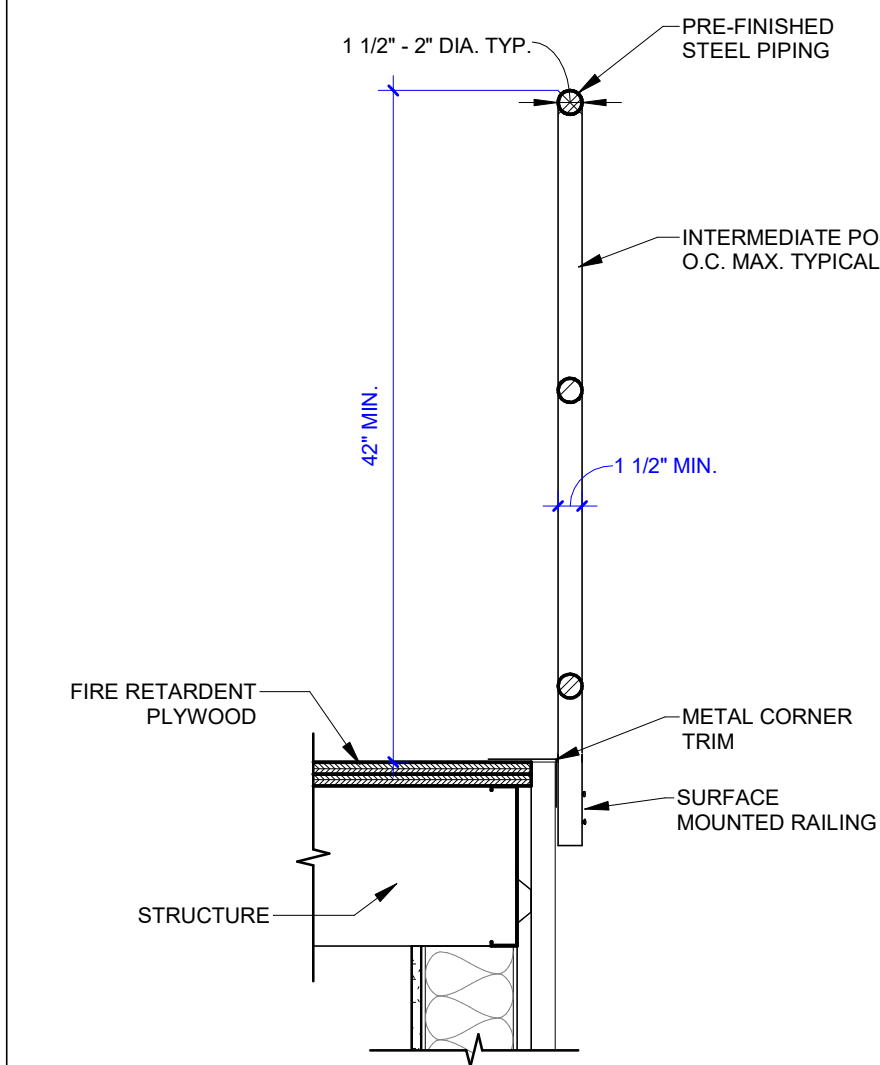


3 GARAGE END WALL FOUNDATION
SCALE 1 1/2" = 1'-0"



2 GARAGE END WALL
SCALE 3/4" = 1'-0"

KEYNOTE LEGEND	
03.302	REINFORCED CONCRETE SLAB OVER 15 MIL. VAPOR BARRIER OVER COMPACTED GRANULAR BASE. SEE STRUCTURAL. SEE SECTION 03.300 CAST-IN-PLACE CONCRETE.
03.304	CAST-IN-PLACE CONCRETE FOOTING. SEE STRUCTURAL. SEE SECTION 03.300 CAST-IN-PLACE CONCRETE.
07.111	BITUMINOUS DAMPPROOFING AND MOLDED DRAINAGE PANELS. SEE SECTION 07.1113 BITUMINOUS DAMPPROOFING.
07.212	2" RIGID INSULATION AT BUILDING PERIMETER. RETURN MINIMUM 24" UNDER CONCRETE SLAB. SEE SECTION 07.2100 THERMAL INSULATION.
07.228	CLOSED-CELL SPRAY FOAM INSULATION. FILL CAVITY / VOID. SEE SECTION 07.2100 THERMAL INSULATION.
13.341	PRE-ENGINEERED METAL BUILDING PURLINS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.342	PRE-ENGINEERED METAL BUILDING Z-GIRT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.343	PRE-ENGINEERED METAL BUILDING "C" GIRT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.350	PRE-ENGINEERED METAL BUILDING WALL PANELS. SEE ELEVATIONS FOR MORE INFORMATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.351	PRE-ENGINEERED METAL BUILDING LINER PANEL. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.353	PRE-ENGINEERED METAL BUILDING BAG INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.354	PRE-ENGINEERED METAL BUILDING SIMPLE SAVER ROOF INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.360	PRE-ENGINEERED METAL BUILDING PANEL CLOSURE. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.361	PRE-ENGINEERED METAL BUILDING BASE CLOSURE. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.366	PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOF PANELS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.370	PRE-ENGINEERED METAL BUILDING EAVE STRUT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.372	PRE-ENGINEERED METAL BUILDING SOFFIT PANELS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.374	BID ALTERNATE PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.378	PRE-ENGINEERED METAL BUILDING RAKE TRIM. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
26.601	EXTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.
32.100	BOLLARD. REFER TO PLAN DETAILS FOR TYPICAL BOLLARD LOCATION IN REFERENCE TO OVERHEAD DOORS.
33.411	4" DIAMETER PERFORATED FOUNDATION SUBDRAINAGE. ENCASE IN GRANULAR FILL AND WRAP IN GEOTEXTILE FABRIC. COORDINATE WITH CIVIL ENGINEERING DRAWINGS. SEE SECTION 33.4100 SUBDRAINAGE.



1 GUARDRAIL DETAIL
SCALE 1" = 1'-0"



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STATE OF MISSOURI
JARED A. YOUNGLOVE
NUMBER
A-2017019282
6.29.23
JARED A. YOUNGLOVE, ARCHITECT
MO #: A-2017019282

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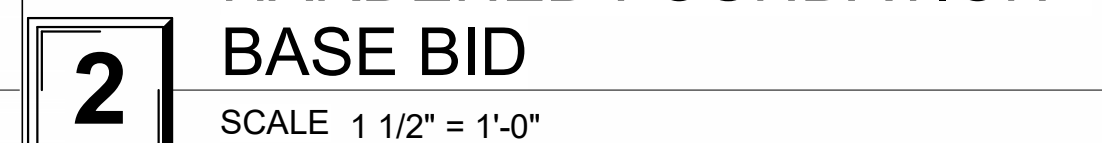
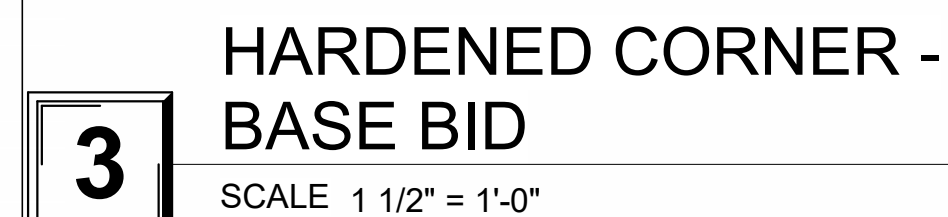
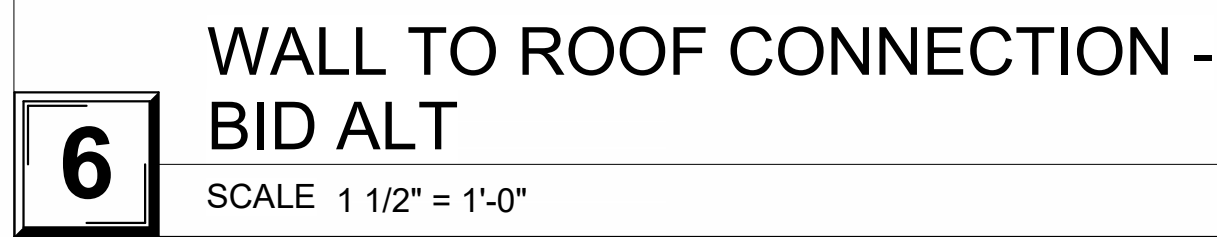
PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

WALL DETAILS

SHEET NUMBER:
A5-1



MISSOURI STATE CERTIFICATE OF AUTHORITY NUMBER A2010000415

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PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

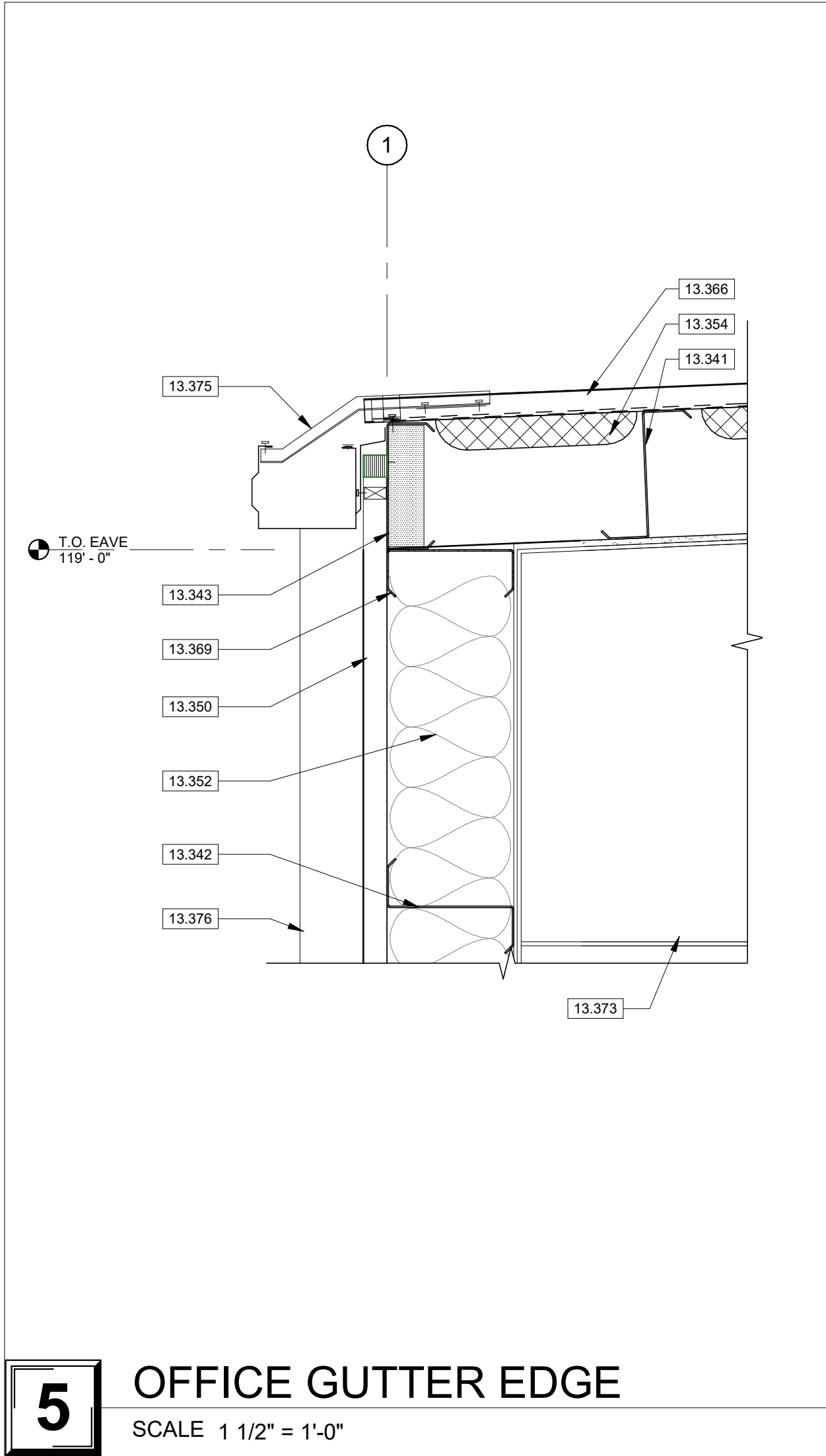
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DATE:
2023.06.29

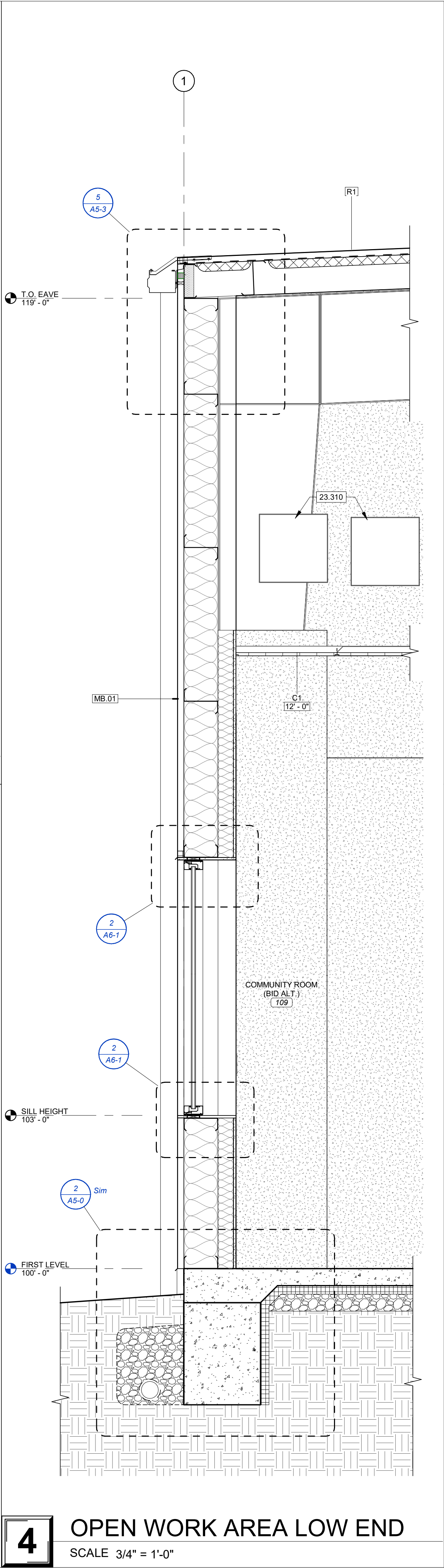
WALL DETAILS

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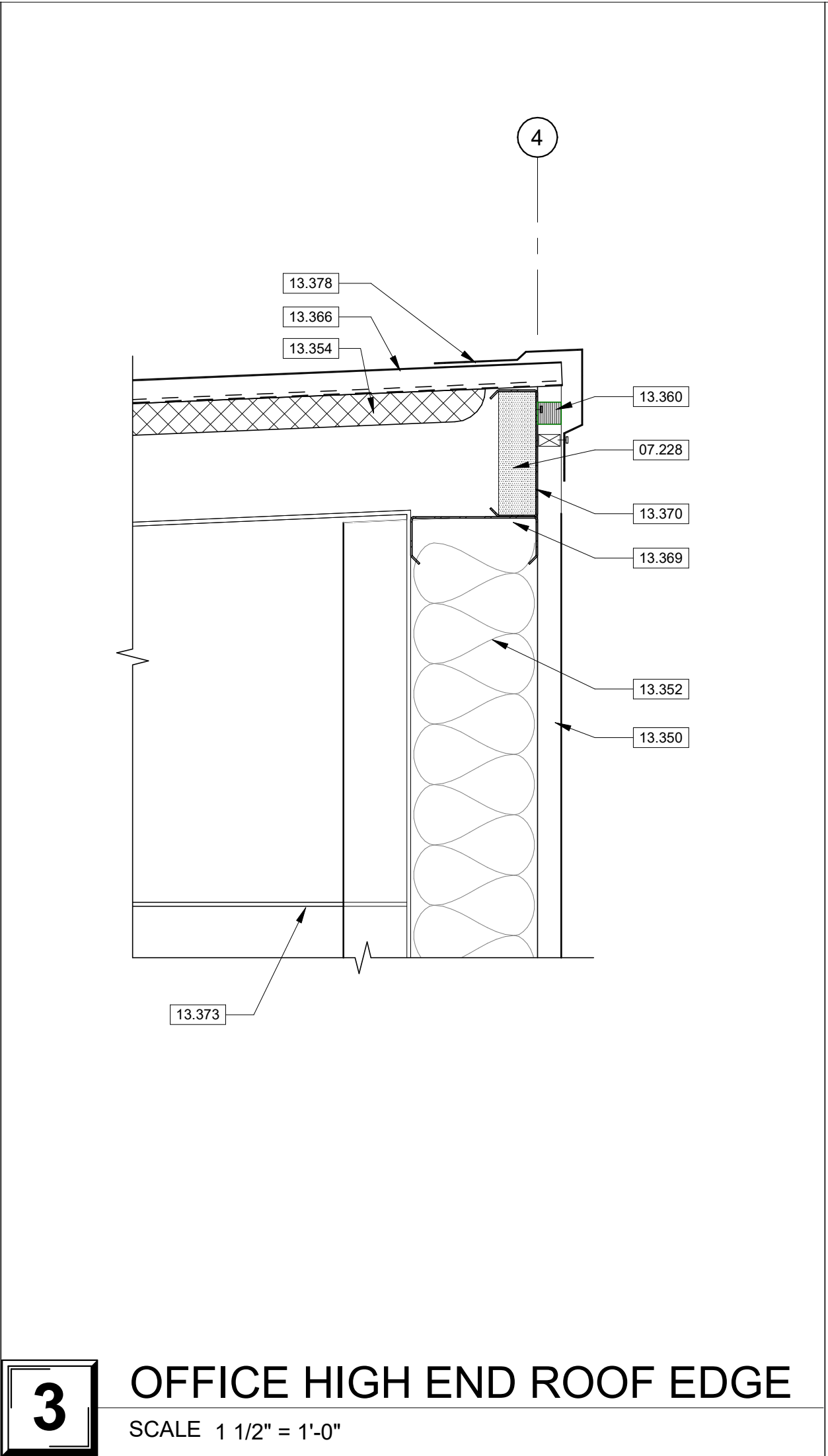
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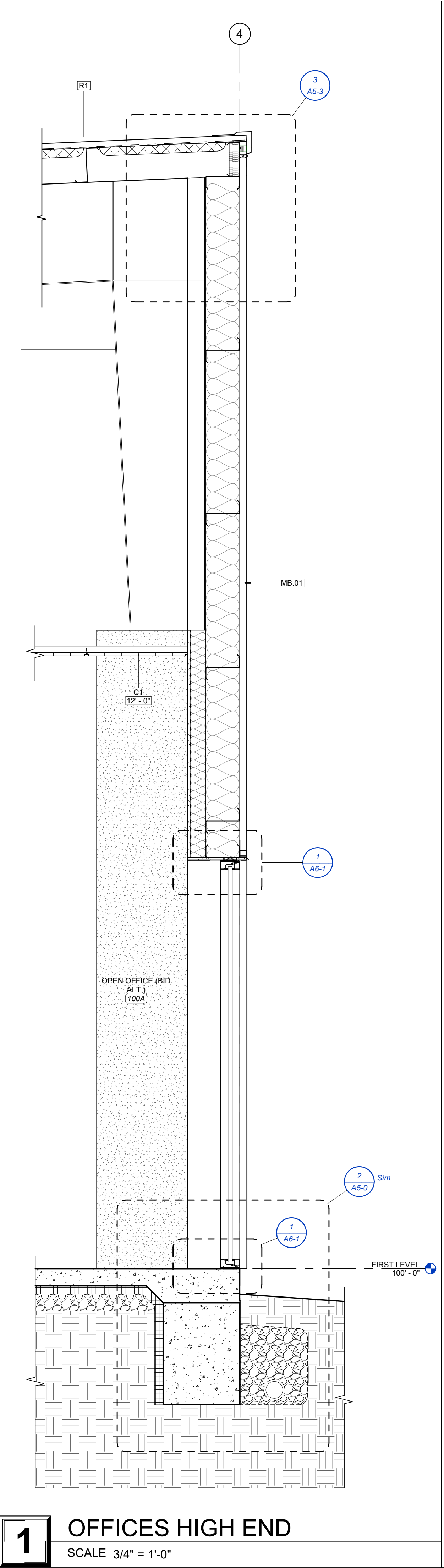
5 OFFICE GUTTER EDGE
SCALE 1 1/2" = 1'-0"



4 OPEN WORK AREA LOW END
SCALE 3/4" = 1'-0"



3 OFFICE HIGH END ROOF EDGE
SCALE 1 1/2" = 1'-0"



1 OFFICES HIGH END
SCALE 3/4" = 1'-0"

KEYNOTE LEGEND	
07.228	CLOSED-CELL SPRAY FOAM INSULATION. FILL CAVITY / VOID. SEE SECTION 07.2100 THERMAL INSULATION.
13.341	PRE-ENGINEERED METAL BUILDING PURLINS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.342	PRE-ENGINEERED METAL BUILDING Z-GIRT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.343	PRE-ENGINEERED METAL BUILDING "C" GIRTS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.350	PRE-ENGINEERED METAL BUILDING WALL PANELS. SEE ELEVATIONS FOR MORE INFORMATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.352	PRE-ENGINEERED METAL BUILDING REINFORCED WHITE VINYL FACED FIBERGLASS INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.354	PRE-ENGINEERED METAL BUILDING SIMPLE SAVER ROOF INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.360	PRE-ENGINEERED METAL BUILDING PANEL CLOSURE. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.366	PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOF PANELS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.369	PRE-ENGINEERED METAL BUILDING EAVE TRIM. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.370	PRE-ENGINEERED METAL BUILDING EAVE STRUT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.375	PRE-ENGINEERED METAL BUILDING 7"x7" GUTTER PER MANUFACTURER'S STANDARD DETAILS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.376	PRE-ENGINEERED METAL BUILDING 4"x6" DOWNSPOUT PER MANUFACTURER'S STANDARD DETAILS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.378	PRE-ENGINEERED METAL BUILDING RAKE TRIM. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
23.310	METAL DUCTS. SEE MEP. SEE DIVISION 23.0000 SPECIFICATIONS.

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STATE OF MISSOURI

JARED A. YOUNGLOVE

NUMBER

A-2017019282

6.29.23

JARED A. YOUNGLOVE, ARCHITECT

MO #: A-2017019282

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PUBLIC WORKS FACILITY

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DRAWN BY: KW, TD

CHECKED BY: KW, JY, JS

PROJECT NUMBER:

23-777

DATE:

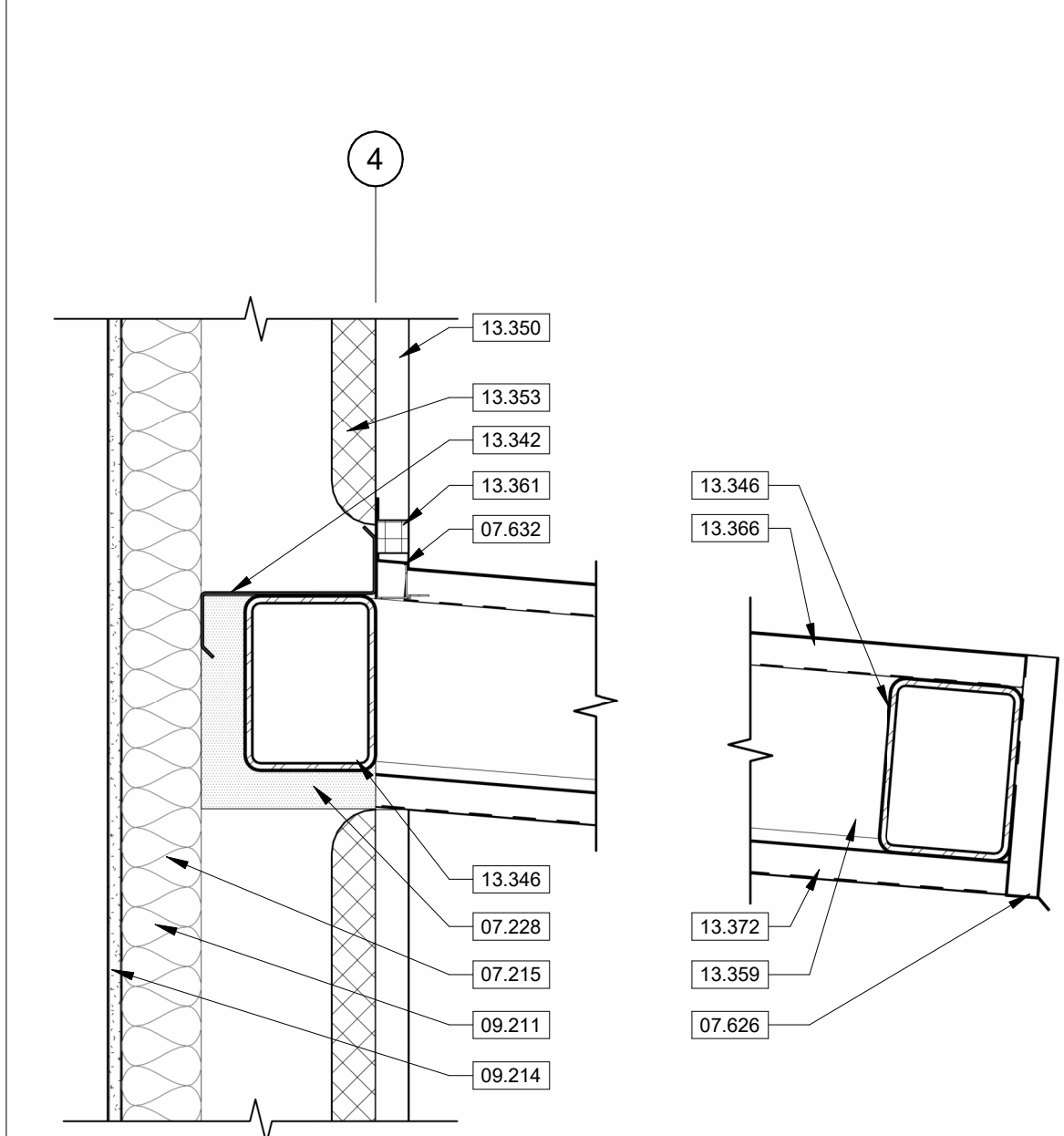
2023.06.29

WALL DETAILS

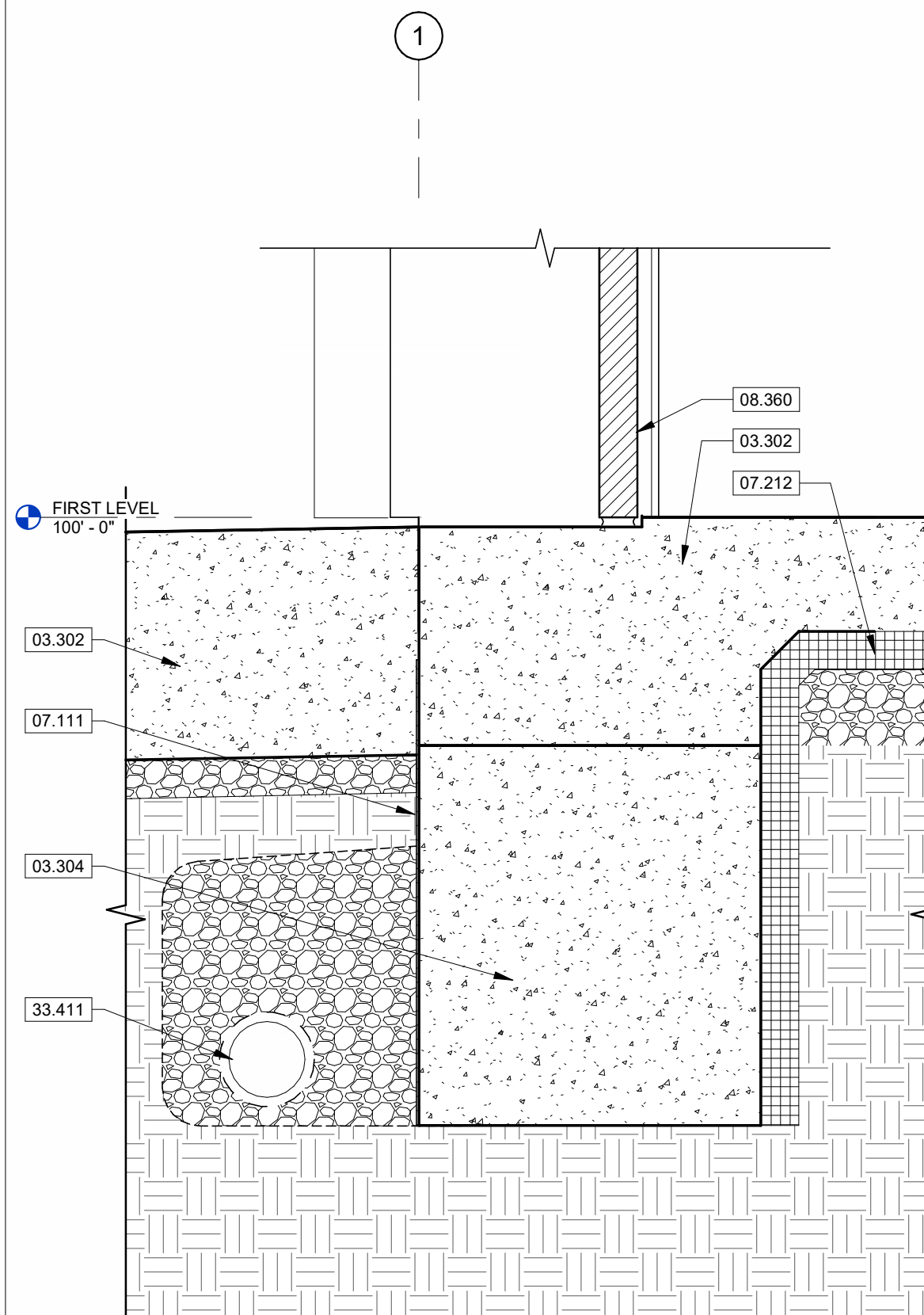
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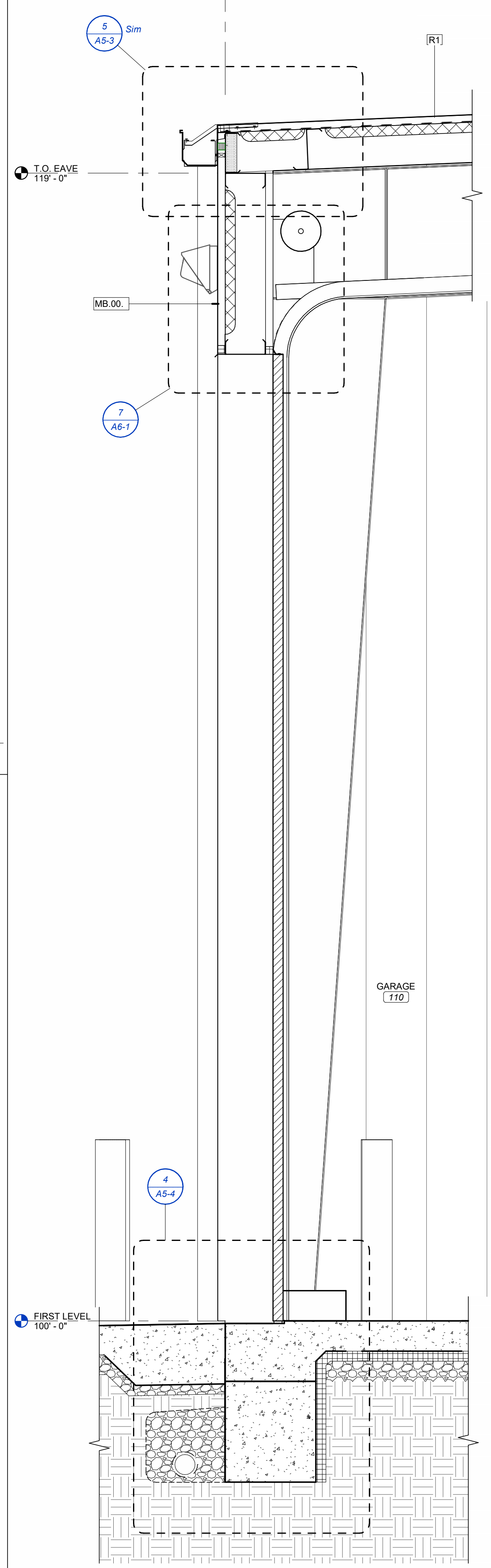
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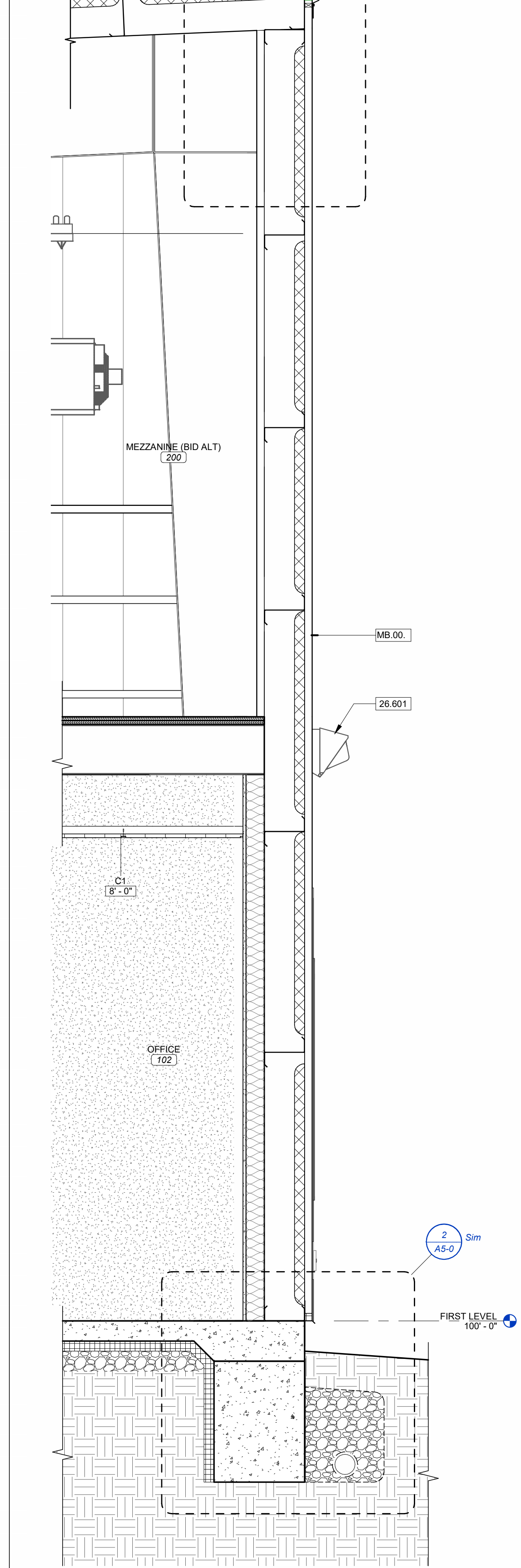
5 ENTRY OVERHANG CONNECTION
SCALE 1 1/2" = 1'-0"



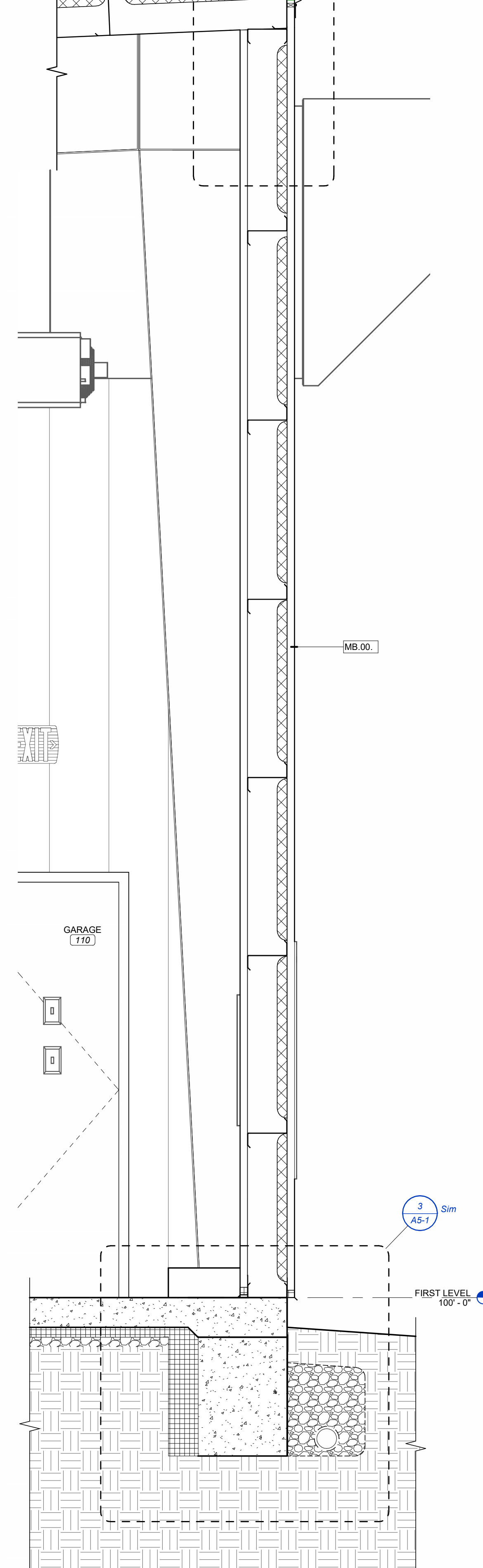
4 GARAGE LOW END FOUNDATION
SCALE 1 1/2" = 1'-0"



3 GARAGE LOW END
SCALE 3/4" = 1'-0"



2 OFFICE & MEZZANINE HIGH END
SCALE 3/4" = 1'-0"



1 GARAGE HIGH END
SCALE 3/4" = 1'-0"

KEYNOTE LEGEND	
03.302	REINFORCED CONCRETE SLAB OVER 15 MIL. VAPOR BARRIER OVER COMPACTED GRANULAR BASE. SEE STRUCTURAL. SEE SECTION 03.300 CAST-IN-PLACE CONCRETE.
03.304	CAST-IN-PLACE CONCRETE FOOTING. SEE STRUCTURAL. SEE SECTION 03.300 CAST-IN-PLACE CONCRETE.
07.111	BITUMINOUS DAMPPROOFING AND MOLDED DRAINAGE PANELS. SEE SECTION 07.1113 BITUMINOUS DAMPPROOFING.
07.212	2" RIGID INSULATION AT BUILDING PERIMETER. RETURN MINIMUM 24" UNDER CONCRETE SLAB. SEE SECTION 07.2100 THERMAL INSULATION.
07.215	FILL CAVITY WITH UNFACED R-21 BATT INSULATION. SEE SECTION 07.2100 THERMAL INSULATION.
07.228	CLOSED-CELL SPRAY FOAM INSULATION. FILL CAVITY / VOID. SEE SECTION 07.2100 THERMAL INSULATION.
07.626	PREFINISHED METAL FASCIA WITH DRIP EDGE. PROVIDE MIN. 4" OVERLAP AT ENDS WITH CONTINUOUS SEALANT AT LAPS. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
07.632	PREFINISHED METAL SILL TRIM AND FLASHING WITH INTEGRAL DRIP EDGE. ATTACH WITH SILL TRIM CLIP. EXTEND UNDER SILL AND PROVIDE MINIMUM 2" LAP AT METAL PANEL. SEE SECTION 07.6200 SHEET METAL FLASHING AND TRIM.
08.360	SECTIONAL DOORS. SEE SECTION 08.3616 SECTIONAL DOORS.
09.211	3-5/8" METAL STUD FRAMING AT 16" ON CENTER MAXIMUM. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
09.214	5/8" GYPSUM BOARD. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
13.342	PRE-ENGINEERED METAL BUILDING Z-GIRT. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.346	PRE-ENGINEERED METAL BUILDING STRUCTURAL STEEL FRAMING. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.350	PRE-ENGINEERED METAL BUILDING WALL PANELS. SEE ELEVATIONS FOR MORE INFORMATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.353	PRE-ENGINEERED METAL BUILDING BAG INSULATION. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.359	PRE-ENGINEERED METAL BUILDING OVERHANG STRUCTURAL STEEL FRAMING. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.361	PRE-ENGINEERED METAL BUILDING BASE CLOSURE. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.366	PRE-ENGINEERED METAL BUILDING STANDING SEAM ROOF PANELS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.372	PRE-ENGINEERED METAL BUILDING SOFFIT PANELS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
26.601	EXTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.
33.411	4" DIAMETER PERFORATED FOUNDATION SUBDRAINAGE. ENCASE IN GRANULAR FILL AND WRAP IN GEOTEXTILE FABRIC. COORDINATE WITH CIVIL ENGINEERING DRAWINGS. SEE SECTION 33.4100 SUBDRAINAGE.



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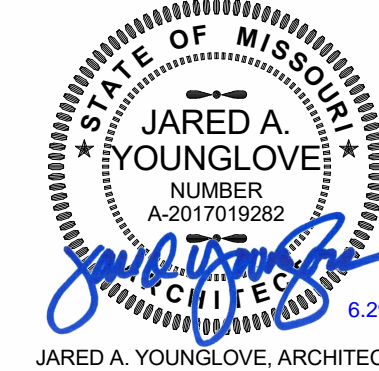
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JARED A. YOUNGLOVE, ARCHITECT
MO # A-2017019282

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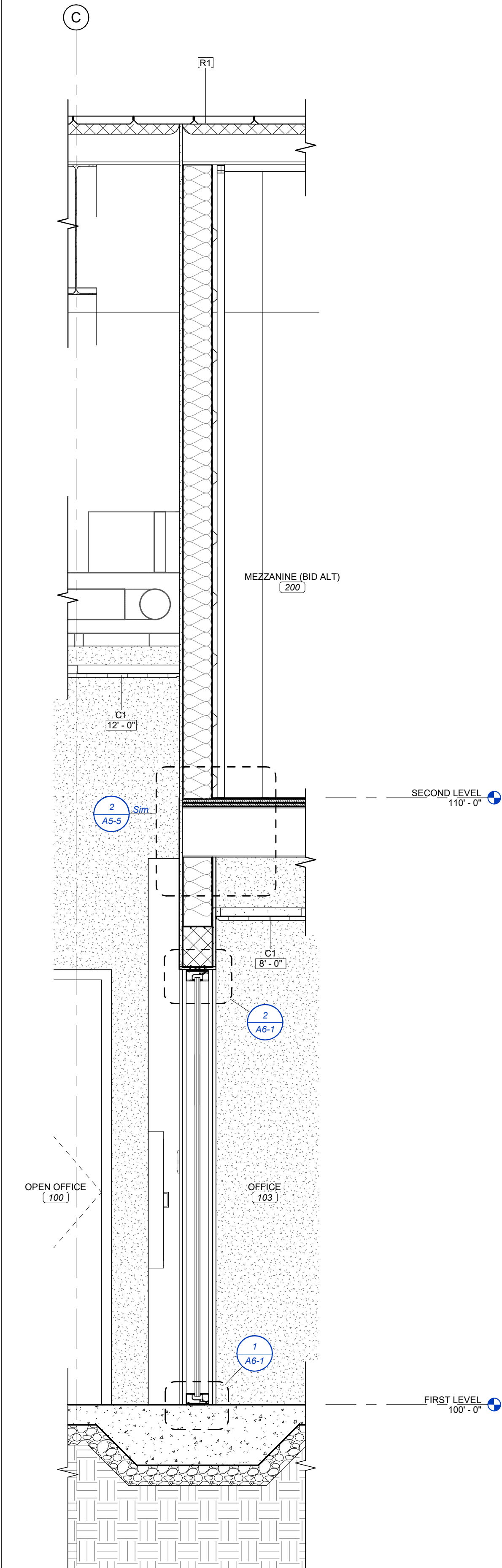
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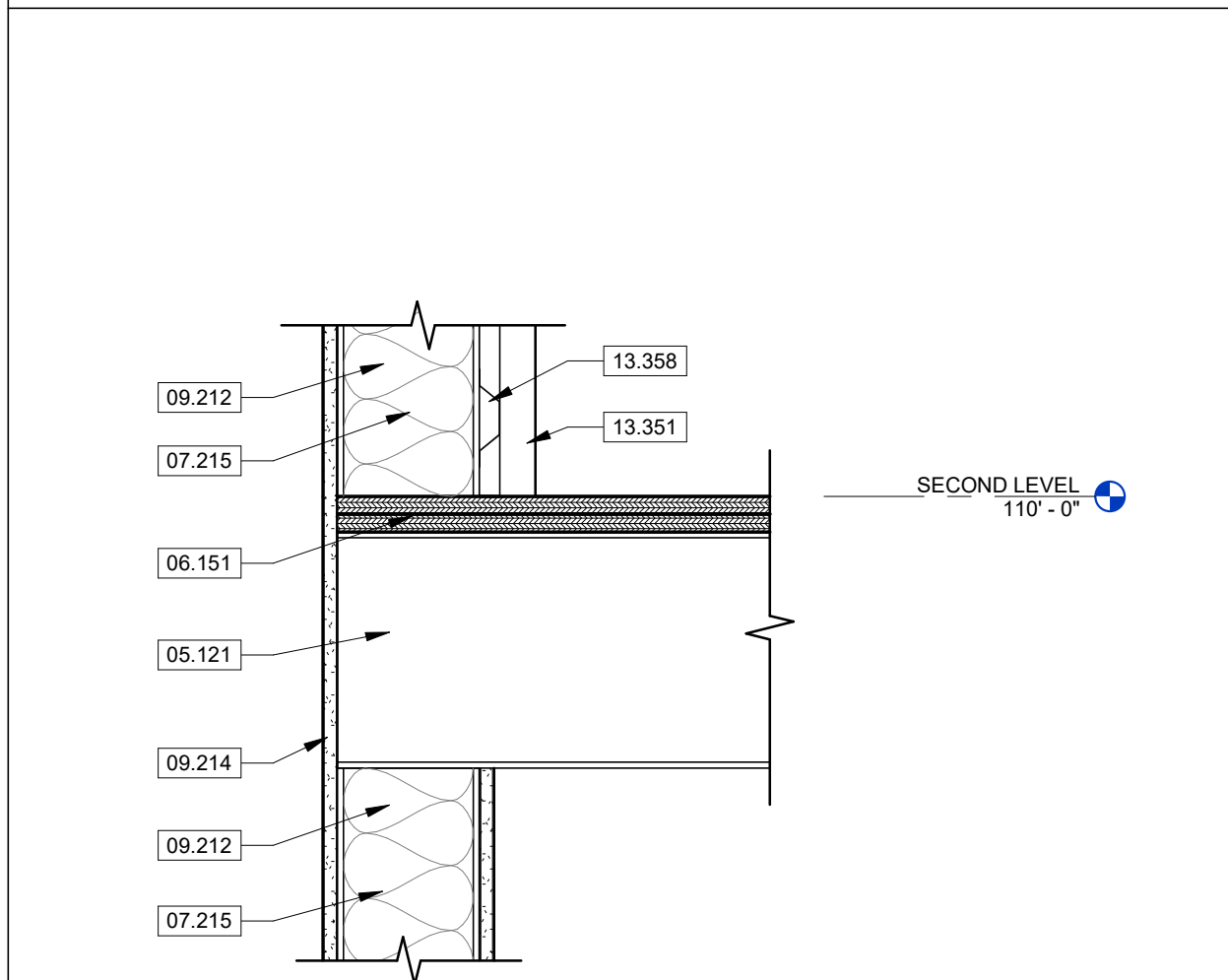
DATE:
2023.06.29

WALL DETAILS

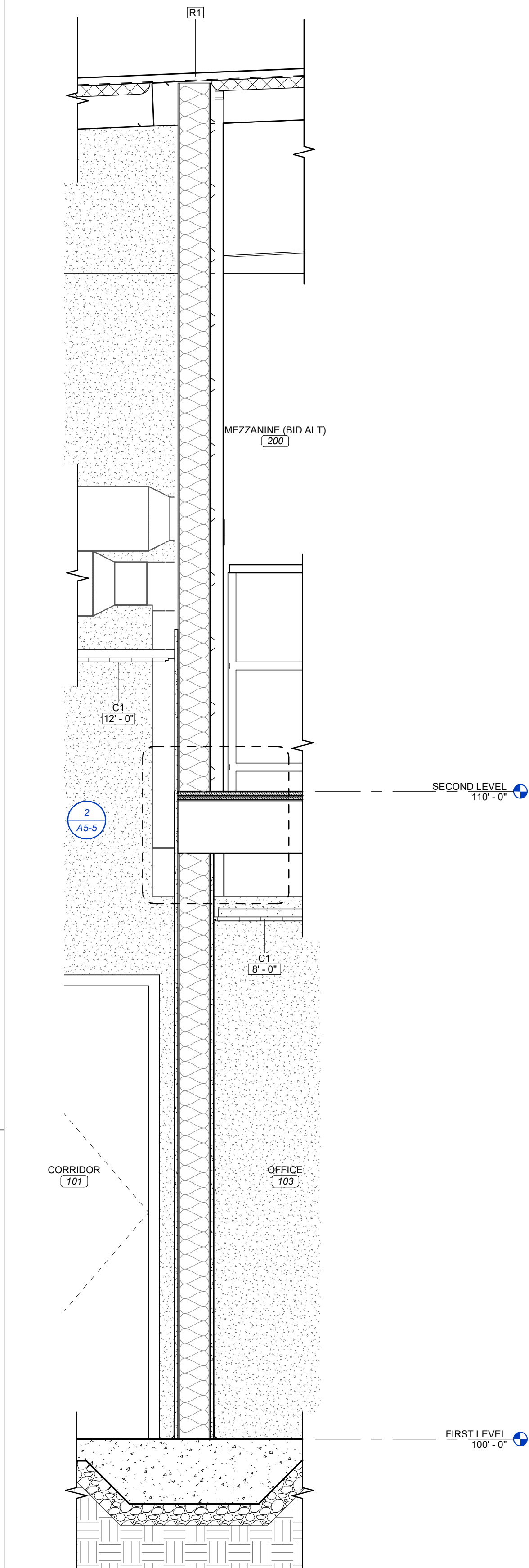
SHEET NUMBER:
A5-4



3 MEZZANINE WEST WALL (BID ALT)
SCALE 3/4" = 1'-0"



2 MEZZANINE FLOOR CONNECTION (BID ALT)
SCALE 1 1/2" = 1'-0"



1 MEZZANINE NORTH WALL (BID ALT)
SCALE 3/4" = 1'-0"

KEYNOTE LEGEND	
05.121	STEEL JOIST FRAMING. SEE STRUCTURAL. SEE SECTION 05.1200 STRUCTURAL STEEL FRAMING.
06.151	(2) LAYERS FIRE RETARDANT PLYWOOD DECKING. SEE STRUCTURAL. SEE SECTION 06.1500 WOOD DECKING.
07.215	FILL CAVITY WITH UNFACED R-21 BATT INSULATION. SEE SECTION 07.2100 THERMAL INSULATION.
09.212	6" METAL STUD FRAMING AT 16" ON CENTER MAXIMUM. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
09.214	5/8" GYPSUM BOARD. SEE SECTION 09.2116 GYPSUM BOARD ASSEMBLIES.
13.351	PRE-ENGINEERED METAL BUILDING LINER PANEL. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.358	PRE-ENGINEERED METAL BUILDING 7/8" HAT CHANNEL. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.



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WALL DETAILS

SHEET NUMBER:
A5-5



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MO #: A-2017019282

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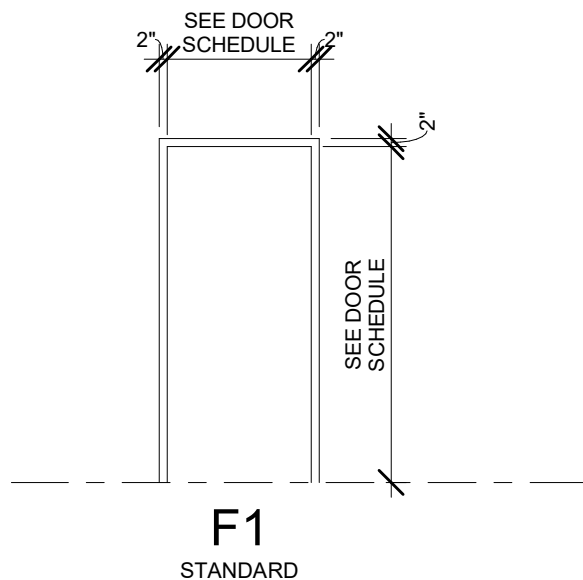
DOOR SCHEDULE
AND
INFORMATION

SHEET NUMBER:

A6-0

DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR								FRAME			COMMENTS
	OPENING		CONFIG	PANEL					TYPE	MATL	FINISH	
	WIDTH	HEIGHT		PANEL WIDTH	THICK	TYPE	MATL	FINISH				
100-1	4'-0"	8'-0"	SINGLE	4'-0"	1 3/4"	FG	HM	PT	F1	HM	PT	OMITTED IF BID ALTERNATE IS ACCEPTED
101-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	N	HM	PT	F1	HM	PT	
101-2	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	HM	PT	F1	HM	PT	
102-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	S2	WD	PT	SF3	HM	PT	
103-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	S2	WD	PT	SF4	HM	PT	
104-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	WD	PT	F1	HM	PT	
105-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	WD	PT	F1	HM	PT	
106-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	WD	PT	F1	HM	PT	
107-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	WD	PT	F1	HM	PT	
108-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	WD	PT	F1	HM	PT	
109-1	6'-0"	7'-0"	PAIR	3'-0"	1 3/4"	FG	WD	PT	F1	HM	PT	BID ALTERNATE
109-2	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	F	HM	PT	F1	HM	PT	BID ALTERNATE
110-1	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	N	HM	PT	F1	HM	PT	
110-2	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	N	HM	PT	F1	HM	PT	
110-3	3'-0"	7'-0"	SINGLE	3'-0"	1 3/4"	N	HM	PT	F1	HM	PT	
110-4	12'-0"	12'-0"			2"		--	PF	--	--	PF	OVERHEAD DOOR. REFER TO SPEC FOR ADDITIONAL INFORMATION
110-5	16'-0"	16'-0"			2"		--	PF	--	--	PF	OVERHEAD DOOR. REFER TO SPEC FOR ADDITIONAL INFORMATION
110-6	16'-0"	16'-0"			2"		--	PF	--	--	PF	OVERHEAD DOOR. REFER TO SPEC FOR ADDITIONAL INFORMATION
110-7	16'-0"	16'-0"			2"		--	PF	--	--	PF	OVERHEAD DOOR. REFER TO SPEC FOR ADDITIONAL INFORMATION



DOOR FRAME LEGEND

NTS

DOOR SCHEDULE LEGEND AND
DOOR GENERAL NOTES

MATERIAL ABBREVIATIONS

HM HOLLOW METAL
WD SOLID CORE WOOD
AL ALUMINUM FRAMED
PNT PAINTED
PF PRE-FINISHED

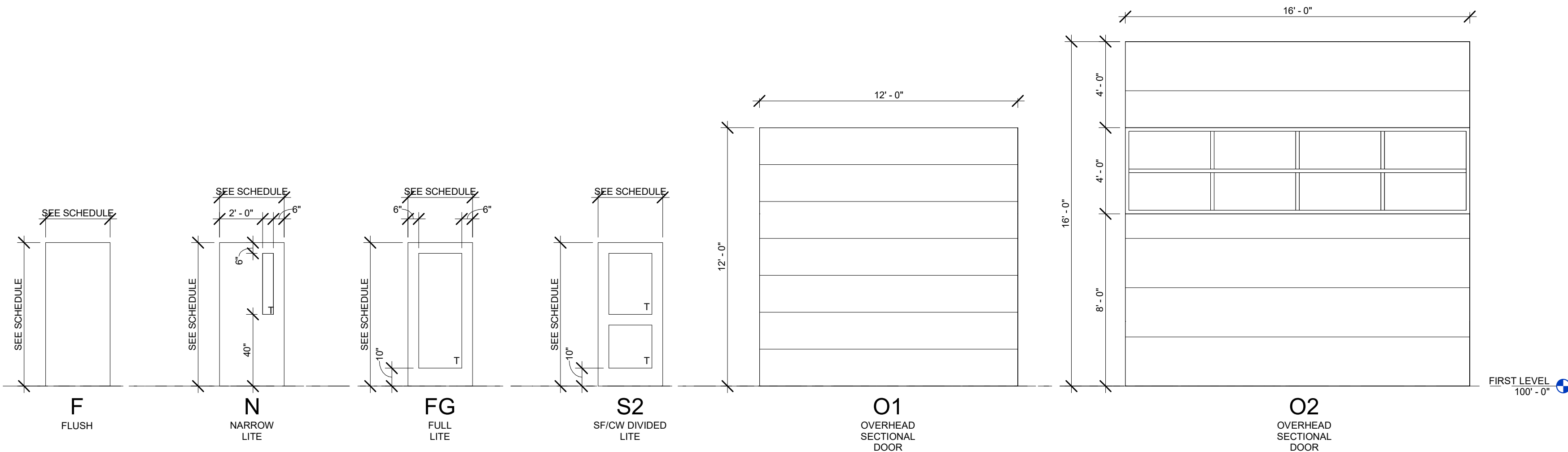
GENERAL NOTES:

- GLAZING IN DOORS AND WINDOWS TAGGED WITH A "T" ARE TO BE TEMPERED GLASS.
- ALL GLASS IN DOORS, ADJACENT, OR WITHIN 12" OF DOORS HORIZONTALLY, OR WITHIN 36" OF STAIRS, OR CLOSER THAN 18" TO FLOOR TO BE TEMPERED PER THE APPLICABLE VERSION OF INTERNATIONAL BUILDING CODE.
- REFER TO A6 SHEETS FOR HEAD, JAMB, AND SILL DETAILS UNLESS NOTED OTHERWISE.
- REFER TO ELECTRICAL WIRING DIAGRAMS OF POWERED OPENINGS AND POWERED HARDWARE FOR ADDITIONAL INFORMATION.

GLAZING
TYPE LEGEND

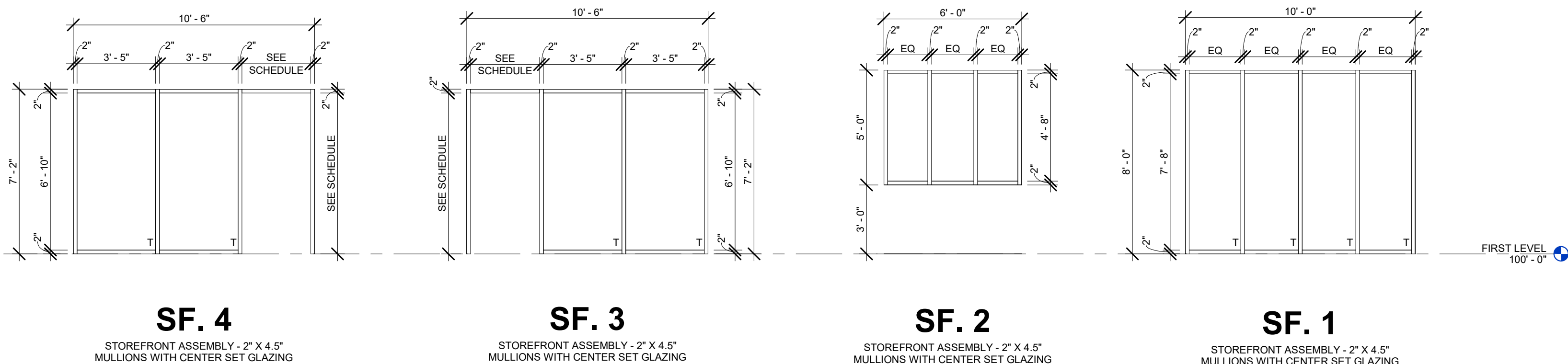
GL1 INSULATED GLASS

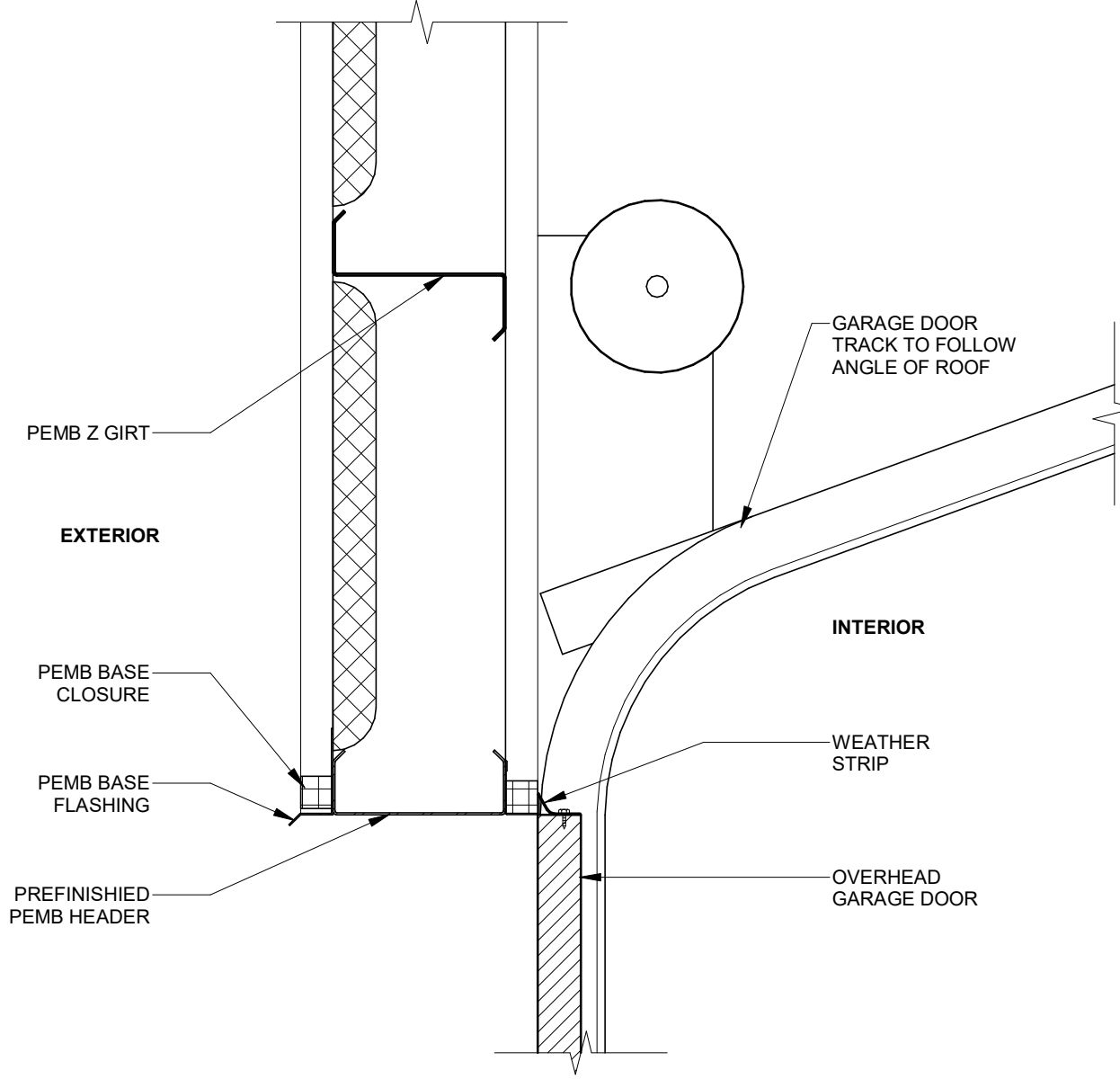
*NOTE: ALL ELEVATIONS MARKED WITH A "T" WILL BE TEMPERED IN ADDITION TO THE GLAZING TYPE.



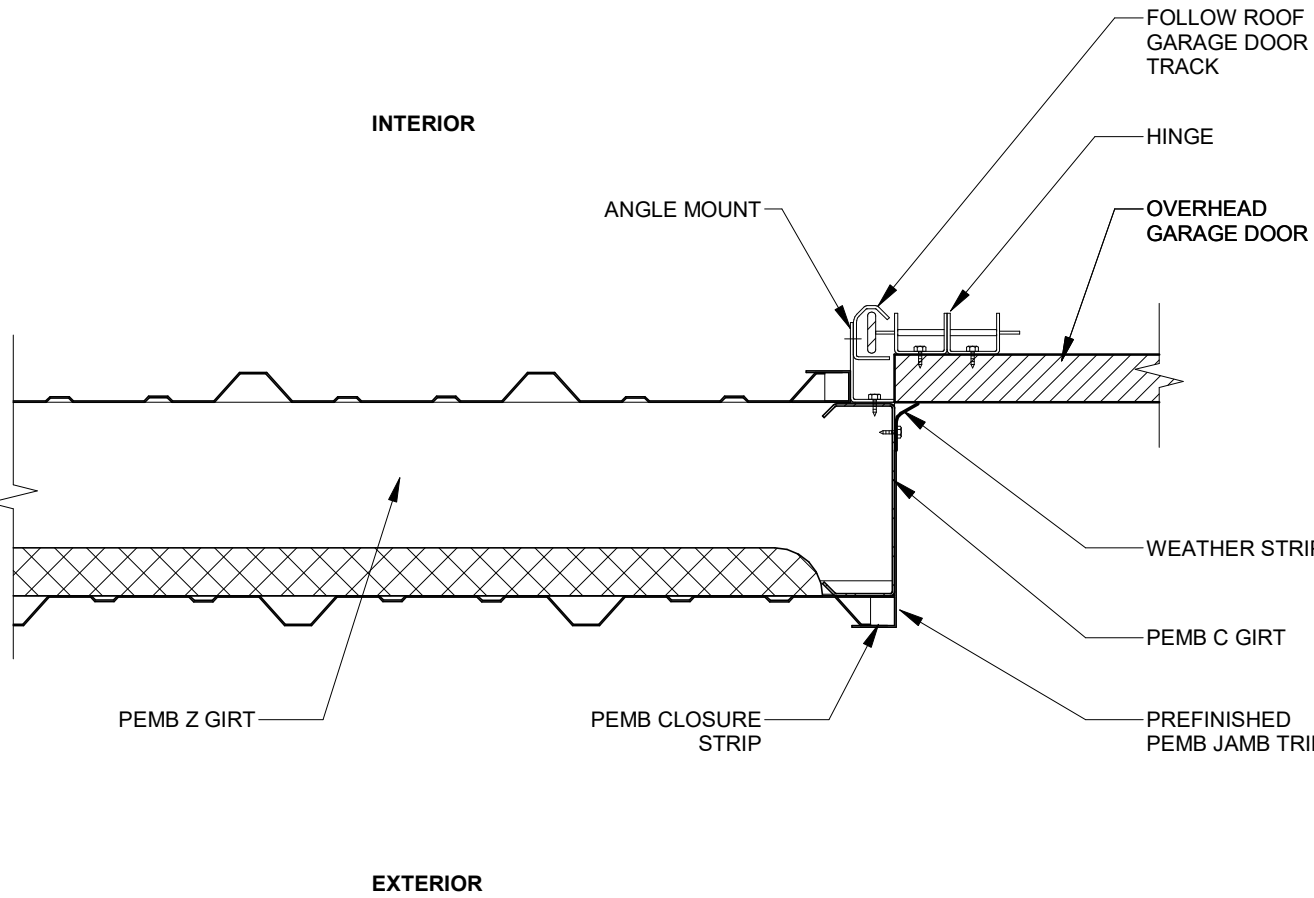
DOOR TYPE LEGEND

NTS

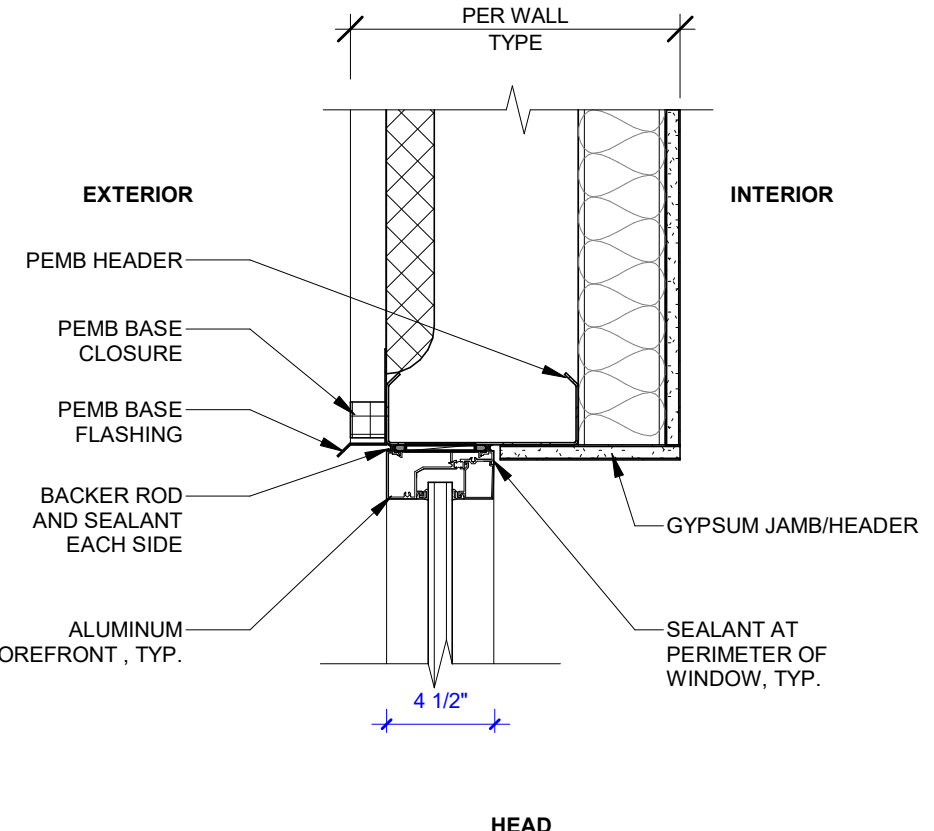




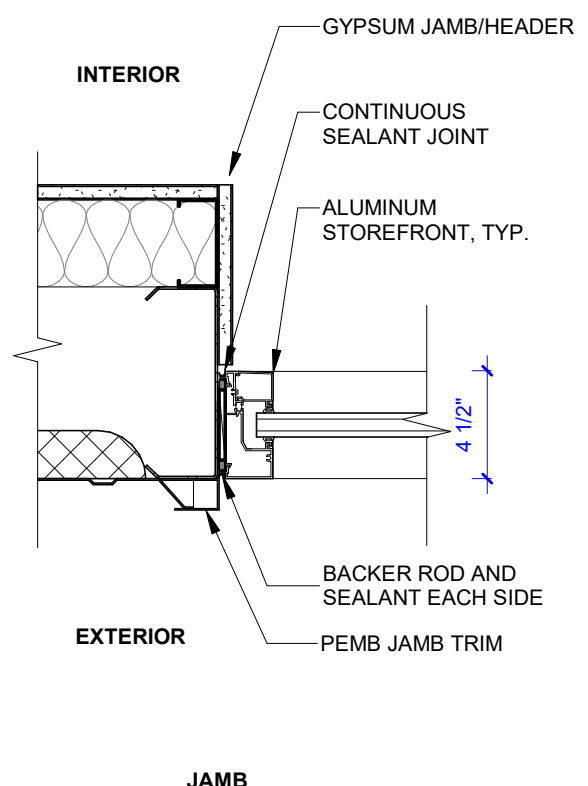
7 OVERHEAD DOOR HEAD
SCALE 1 1/2" = 1'-0"



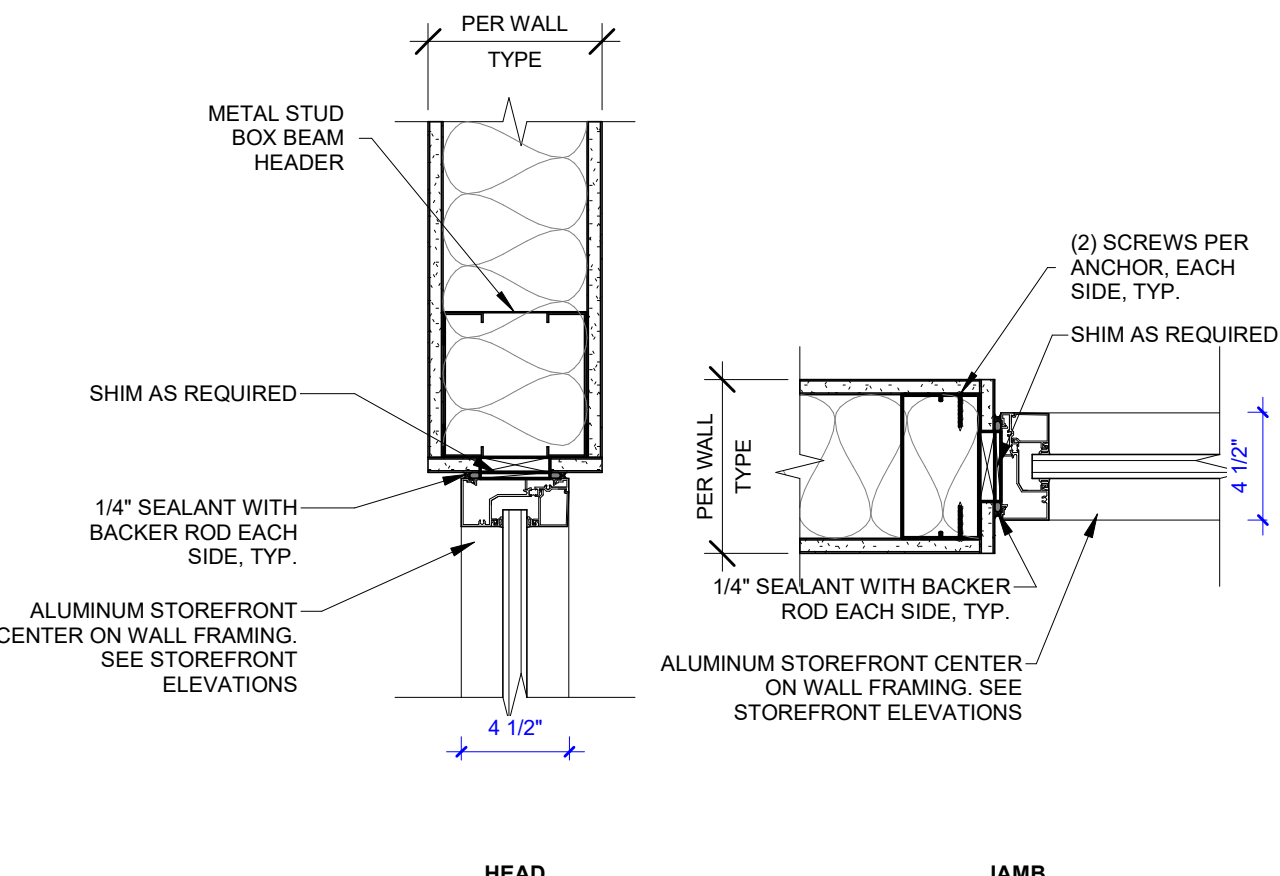
6 OVERHEAD DOOR JAMB
SCALE 1 1/2" = 1'-0"



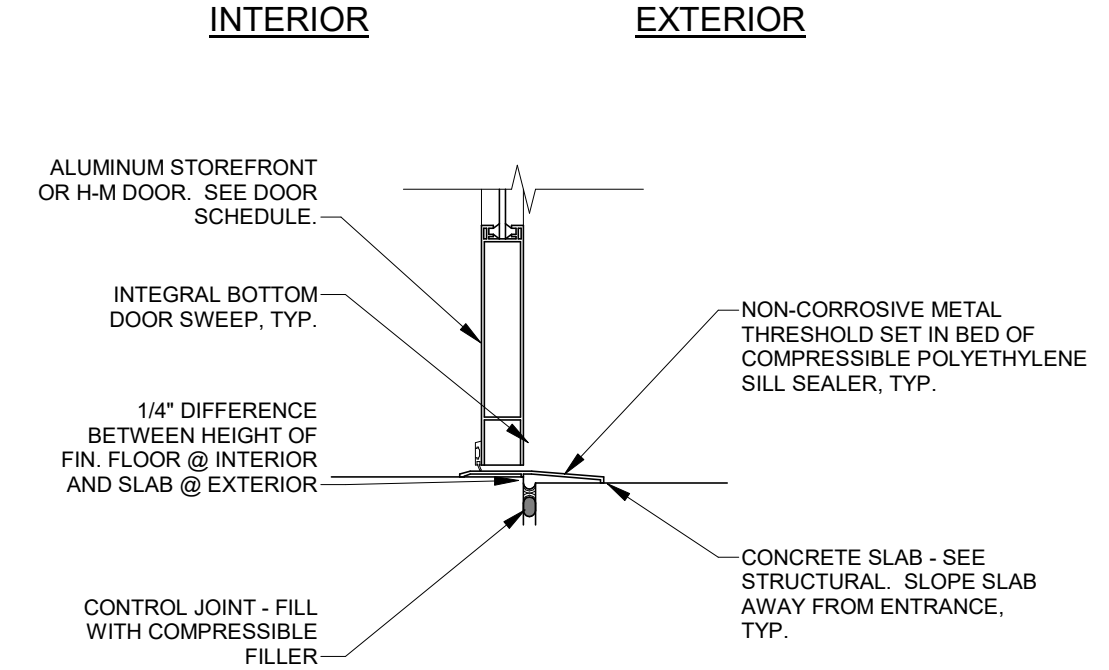
1 STOREFRONT @ EXTERIOR WALL
SCALE 1 1/2" = 1'-0"



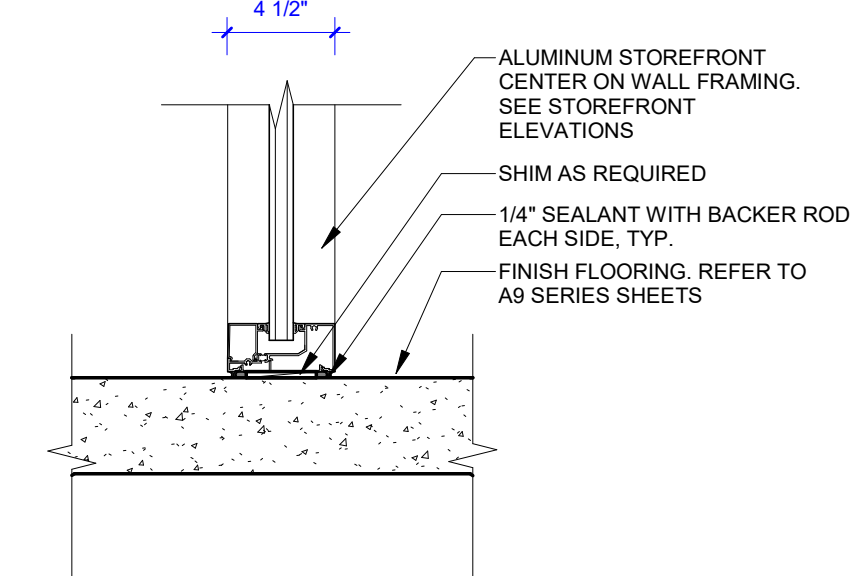
2 STOREFRONT METAL STUD
SCALE 1 1/2" = 1'-0"



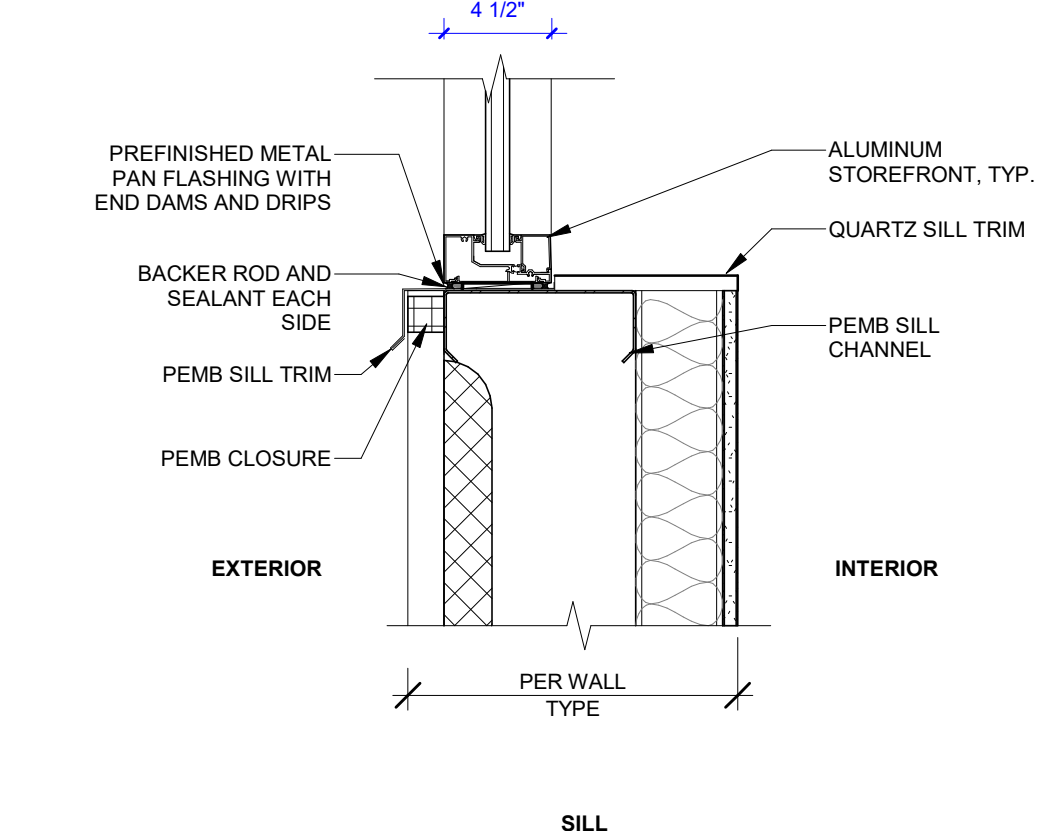
5 INTERIOR STOREFRONT SILL @ SLAB
SCALE 1 1/2" = 1'-0"



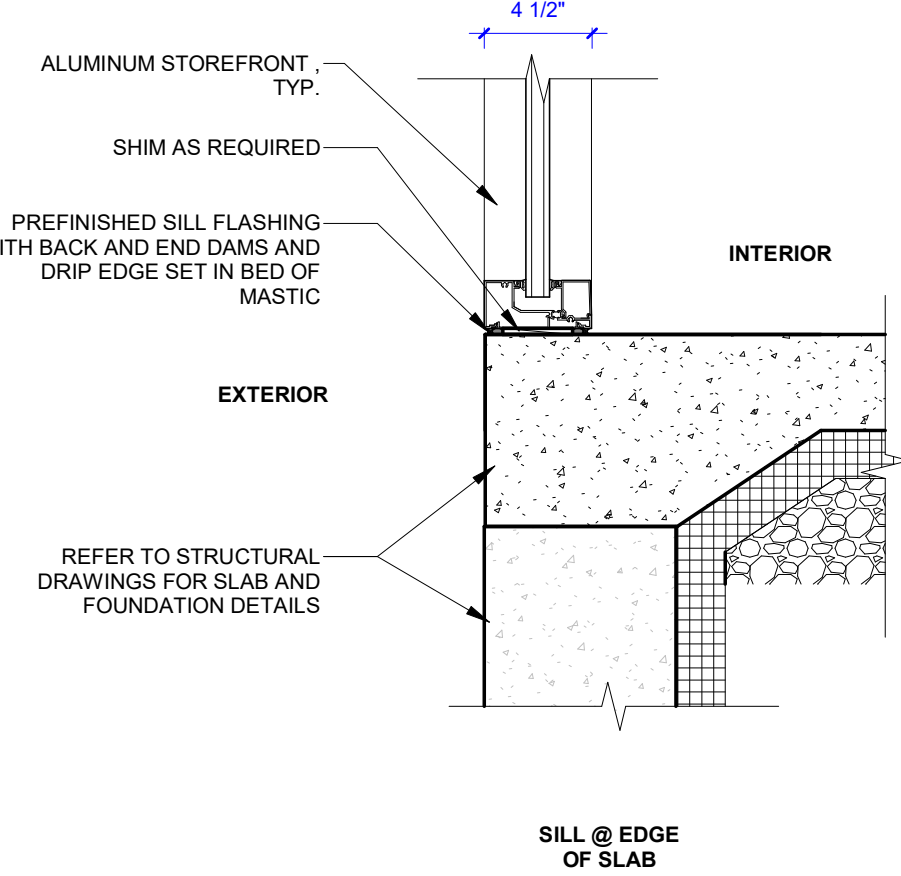
3 DOOR THRESHOLD
SCALE 1 1/2" = 1'-0"



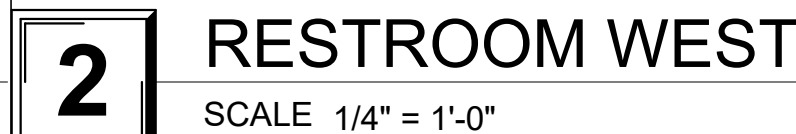
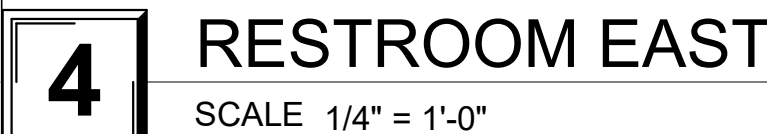
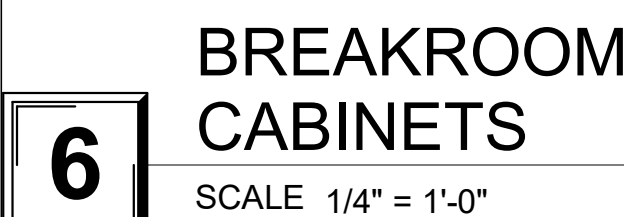
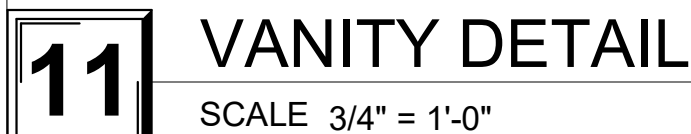
4 HM DOOR FRAME METAL STUD
SCALE 1 1/2" = 1'-0"



2 STOREFRONT METAL STUD
SCALE 1 1/2" = 1'-0"



1 STOREFRONT @ EXTERIOR WALL
SCALE 1 1/2" = 1'-0"



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MO #: A-2017019282

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PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023 06 29

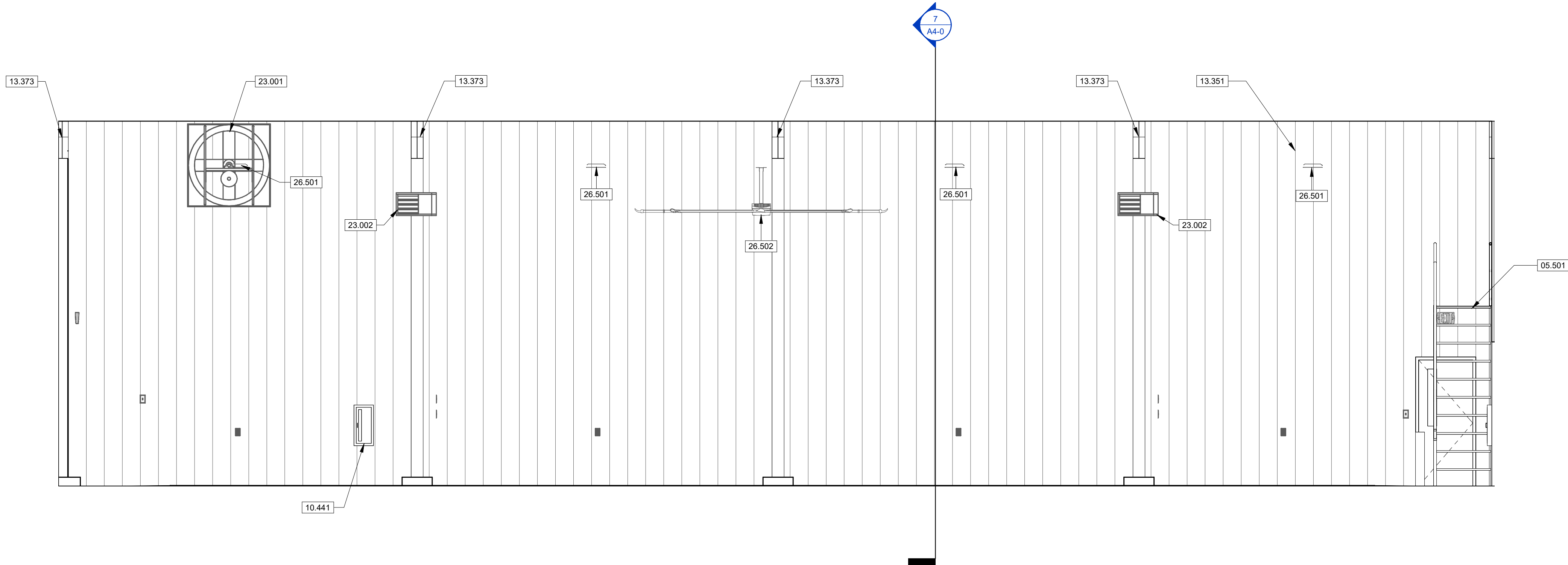
ENLARGED FLOOR PLANS

SHEET NUMBER

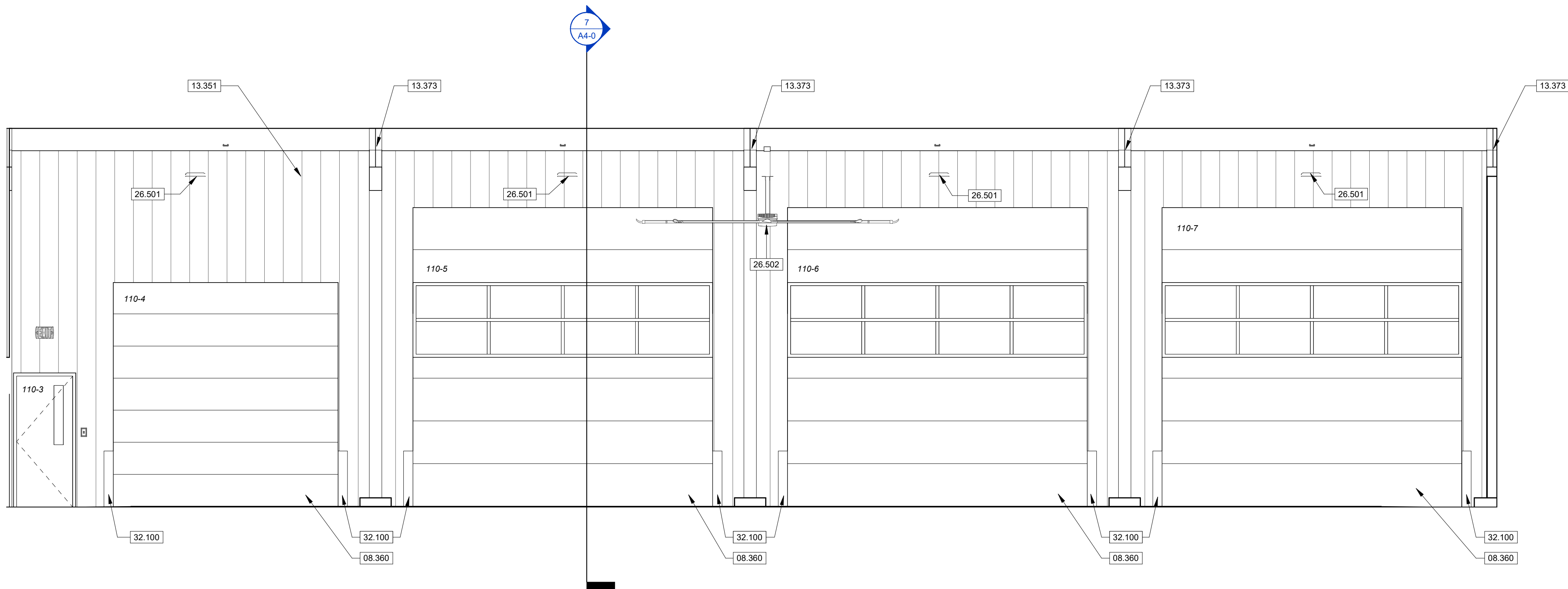
A7-0

INTERIOR ELEVATION GENERAL NOTES

1. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS TO COORDINATE CONNECTIONS WITH EQUIPMENT.
2. DIMENSIONS FOR INTERIOR ELEVATIONS ARE TAKEN TO AND FROM THE FACES OF FINISHED MATERIAL.
3. INSTALL WOOD BLOCKING TO WALL STRUCTURE TO SUPPORT ALL WALL-MOUNTED CASEWORK, ACCESSORIES, AND EQUIPMENT AS REQUIRED BY OWNER AND AS RECOMMENDED BY MANUFACTURER.
4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK.
5. PROVIDE 4" RADIUS AT ALL CORNERS AND AT ALL JOINTS.
6. PROVIDE A 4" HIGH BACK SPLASHES AND SIDE SPLASHES ON ALL COUNTERTOPS WITH SINKS, UNLESS NOTED OTHERWISE.
7. PROTECT ALL WALL OUTLETS TO AVOID CONFLICT WITH CASEWORK.
8. FIELD RATINGS OF WALLS ARE TO BE STENCIL PAINTED ON WALLS IN NON-VISIBLE LOCATIONS AND ABOVE CEILINGS. PROVIDE STENCILS NO LESS THAN 20" ON CENTER AND NO MORE THAN 48" ON CENTER.



2 GARAGE SOUTH ELEVATION
SCALE 1/4" = 1'-0"



1 GARAGE NORTH ELEVATION
SCALE 1/4" = 1'-0"

KEYNOTE LEGEND

05.501	PRE-FABRICATED 60 DEGREE ALUMINUM STAIR
08.360	SECTIONAL DOORS. SEE SECTION 08.3616 SECTIONAL DOORS.
10.441	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 10 LBS ABC FIRE EXTINGUISHER INSIDE. MOUNT FIRE EXTINGUISHER CABINET WITH HANDLE NOT MORE THAN 48 INCHES ABOVE FINISH FLOOR LEVEL.
13.351	PRE-ENGINEERED METAL BUILDING LINER PANEL. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
23.001	PACKAGED WALL FAN. COORDINATE FINISH WITH ARCHITECT, SEE MEP. SEE DIVISION 23.0000 SPECIFICATIONS.
23.002	WALL UNIT HEATER. SEE MEP. SEE DIVISION 23.0000 SPECIFICATIONS.
26.501	INTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.
26.502	CEILING FAN. SEE MEP. FAN SUPPORT BY PEMB SUPPLIER.
32.100	BOLLARD. REFER TO PLAN DETAILS FOR TYPICAL BOLLARD LOCATION IN REFERENCE TO OVERHEAD DOORS.



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PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

INTERIOR
ELEVATION

SHEET NUMBER:

A7-1

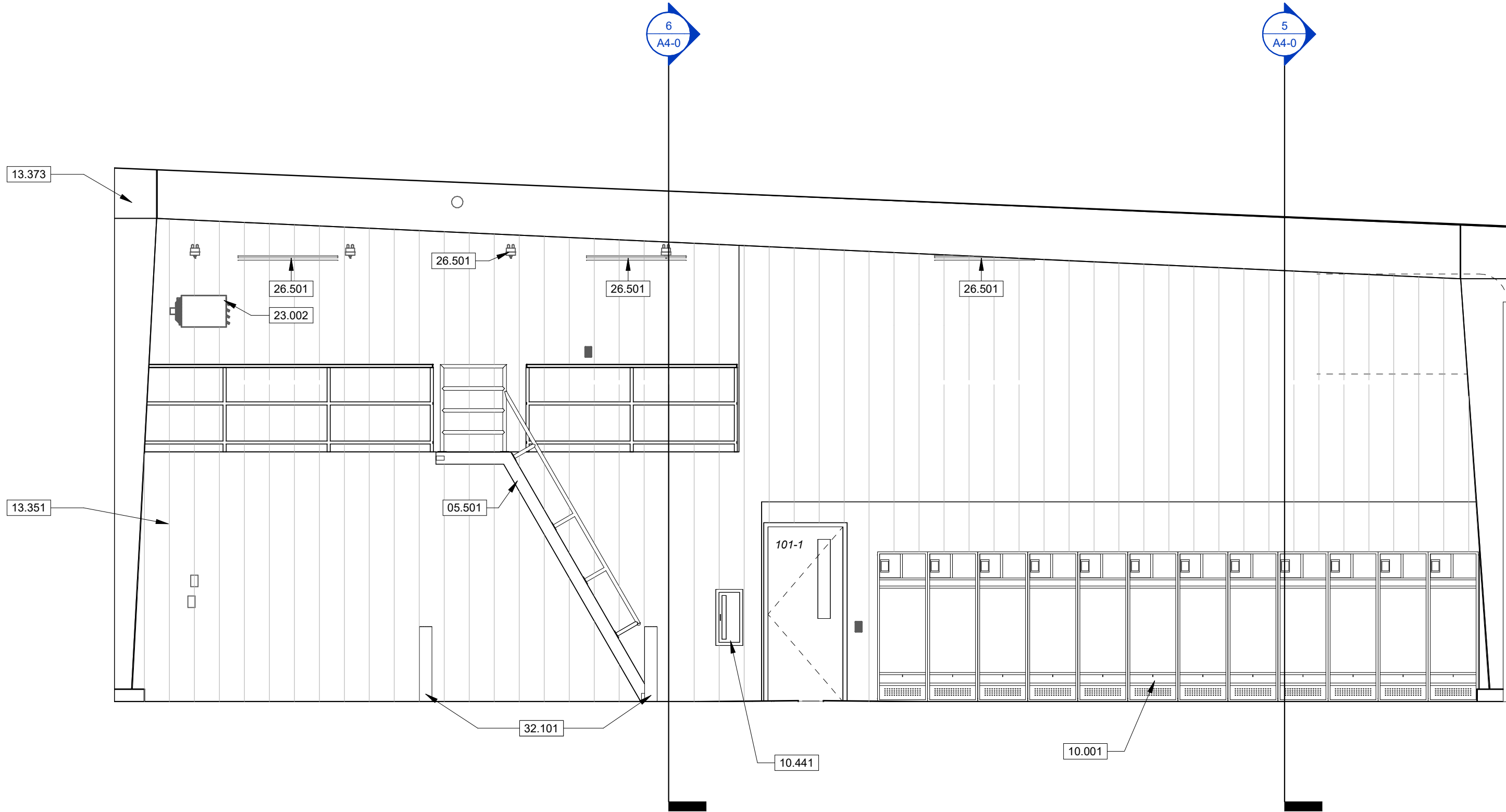
INTERIOR ELEVATION GENERAL NOTES

- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS TO COORDINATE CONNECTIONS WITH EQUIPMENT.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE TAKEN TO AND FROM THE FACES OF FINISHED MATERIAL.
- INSTALL WOOD BLOCKING TO WALL STRUCTURE TO SUPPORT ALL WALL-MOUNTED CASEWORK, ACCESSORIES, AND EQUIPMENT AS REQUIRED BY OWNER AND AS RECOMMENDED BY MANUFACTURER.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK.
- PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ABUTS A WALL.
- PROVIDE A 4" HIGH BACK SPLASHES AND SIDE SPLASHES ON ALL COUNTERS WITH SINKS, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WALL OUTLETS TO AVOID CONFLICT WITH CASEWORK.
- FIRE RATINGS OF WALLS ARE TO BE STENCIL PAINTED ONTO WALLS IN NON-VISIBLE LOCATIONS AND ABOVE CEILINGS. PROVIDE STENCILS NO LESS THAN 20'-0" ON CENTER AND NO MORE THAN 30'-0" ON CENTER.

2

GARAGE WEST ELEVATION

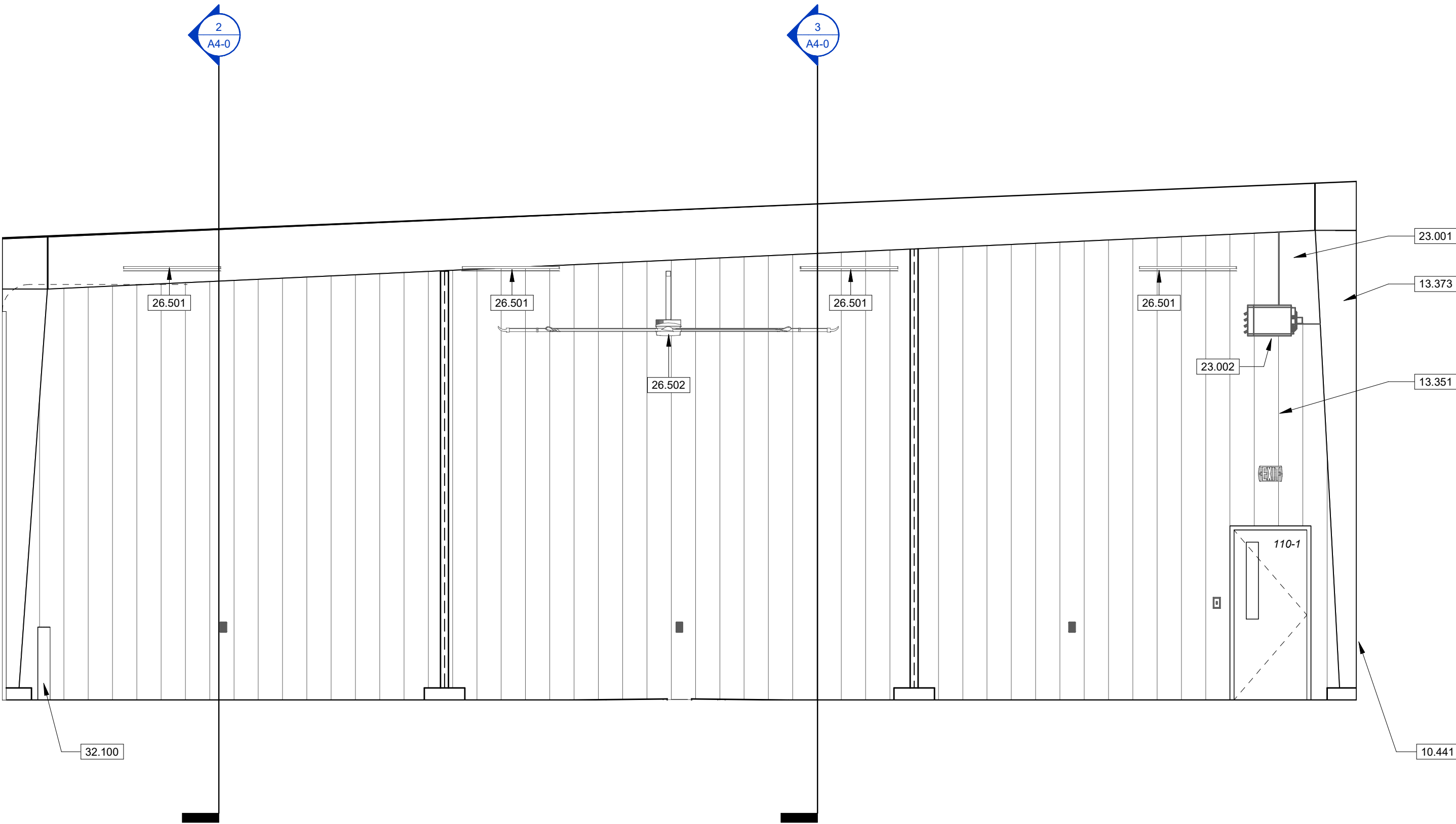
SCALE 1/4" = 1'-0"



1

GARAGE EAST ELEVATION

SCALE 1/4" = 1'-0"



KEYNOTE LEGEND

05.501	PRE-FABRICATED 60 DEGREE ALUMINUM STAIR.
10.001	METAL OPEN ACCESS LOCKERS. SEE SECTION 10.5113 METAL LOCKERS.
10.441	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 10 LBS ABC FIRE EXTINGUISHER INSIDE. MOUNT FIRE EXTINGUISHER CABINET WITH HANDLE NOT MORE THAN 48 INCHES ABOVE FINISH FLOOR LEVEL.
13.351	PRE-ENGINEERED METAL BUILDING LINER PANEL. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
23.001	PACKAGED WALL FAN, COORDINATE FINISH WITH ARCHITECT, SEE MEP. SEE DIVISION 23.0000 SPECIFICATIONS.
23.002	WALL UNIT HEATER. SEE MEP. SEE DIVISION 23.0000 SPECIFICATIONS.
26.501	INTERIOR LIGHTING. SEE MEP. SEE DIVISION 26.0000 SPECIFICATIONS.
26.502	CEILING FAN. SEE MEP. FAN SUPPORT BY PEMB SUPPLIER.
32.100	BOLLARD, REFER TO PLAN DETAILS FOR TYPICAL BOLLARD LOCATION IN REFERENCE TO OVERHEAD DOORS.
32.101	BOLLARD, COORDINATE PLACEMENT OF BOLLARD WITH LADDER.



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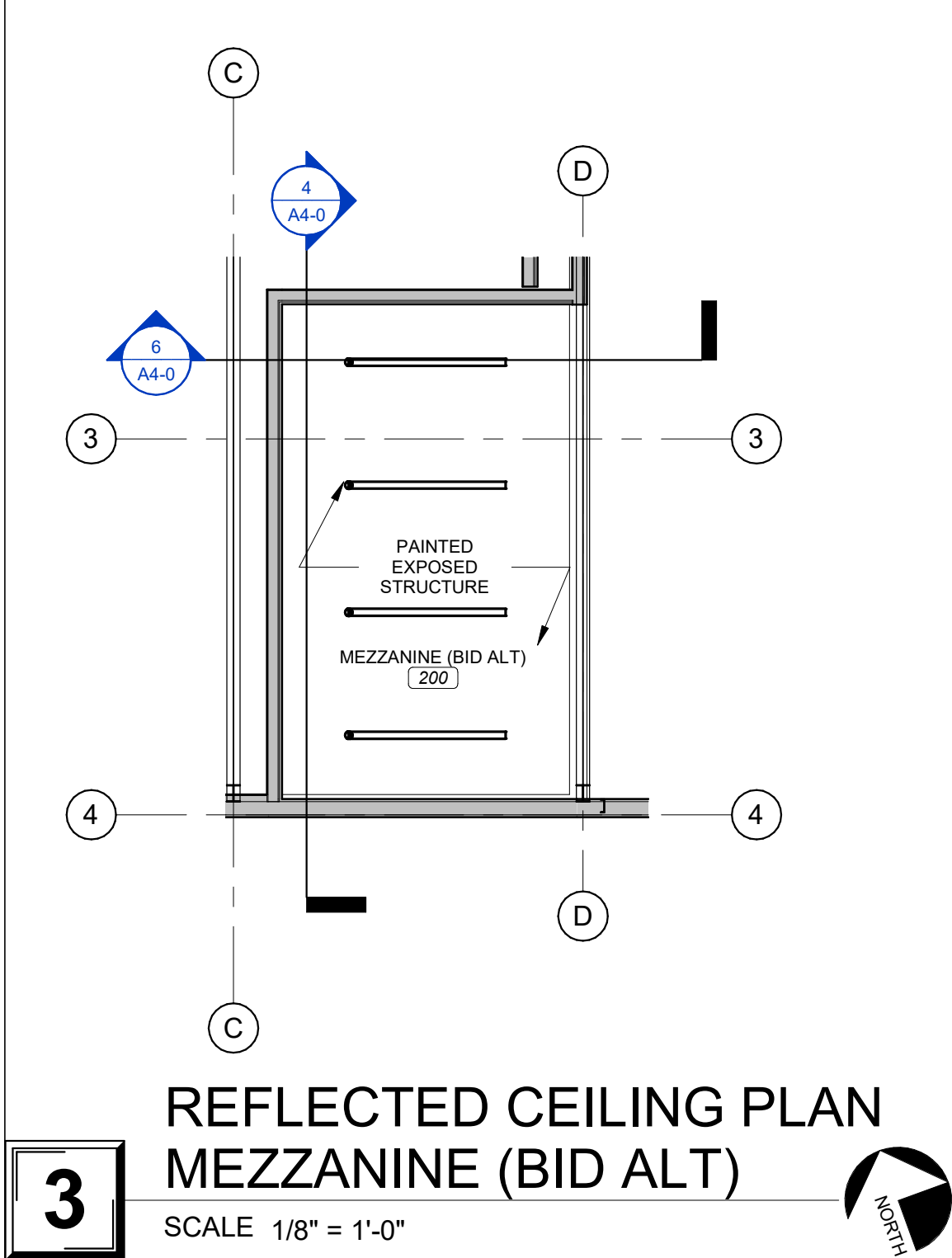
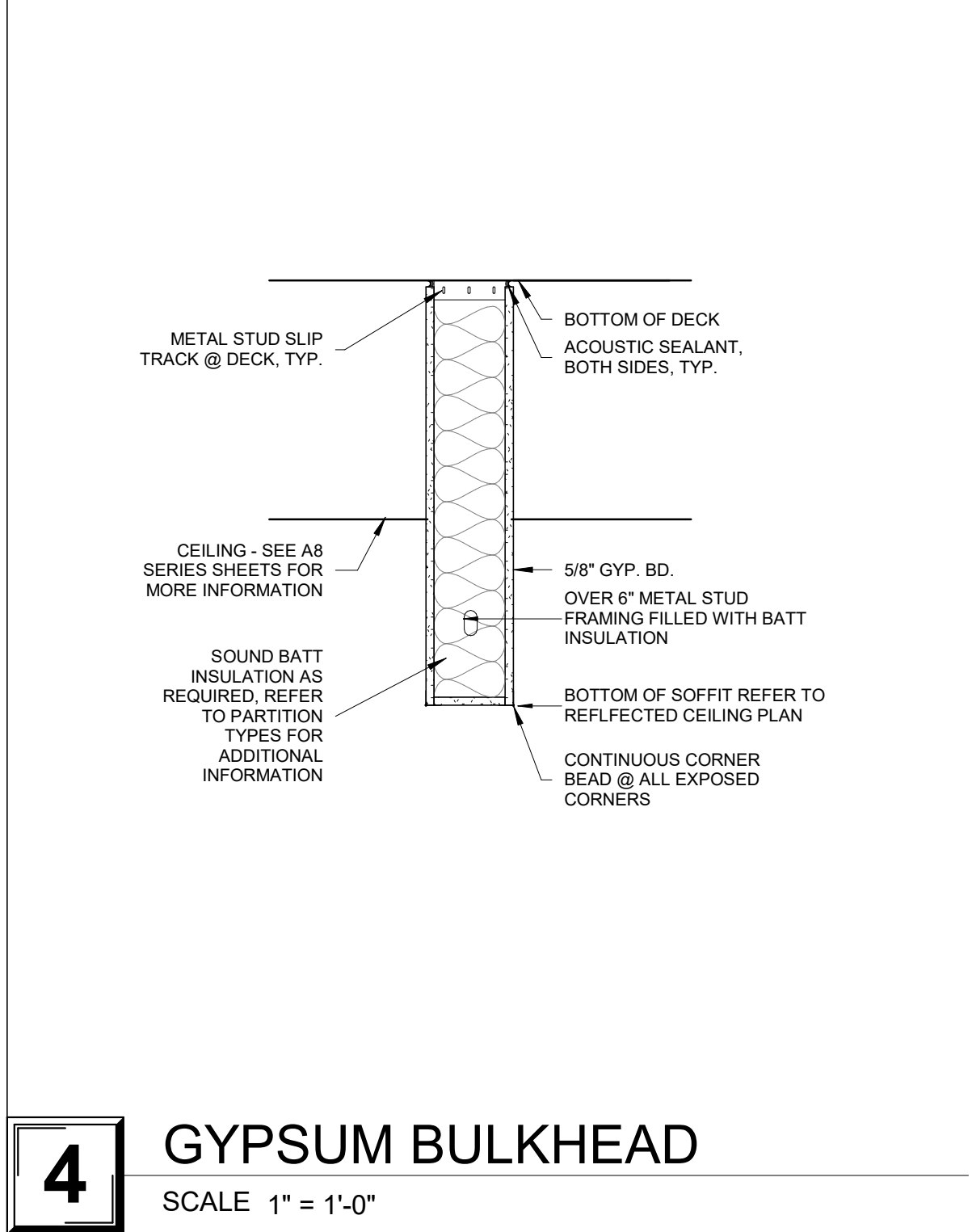
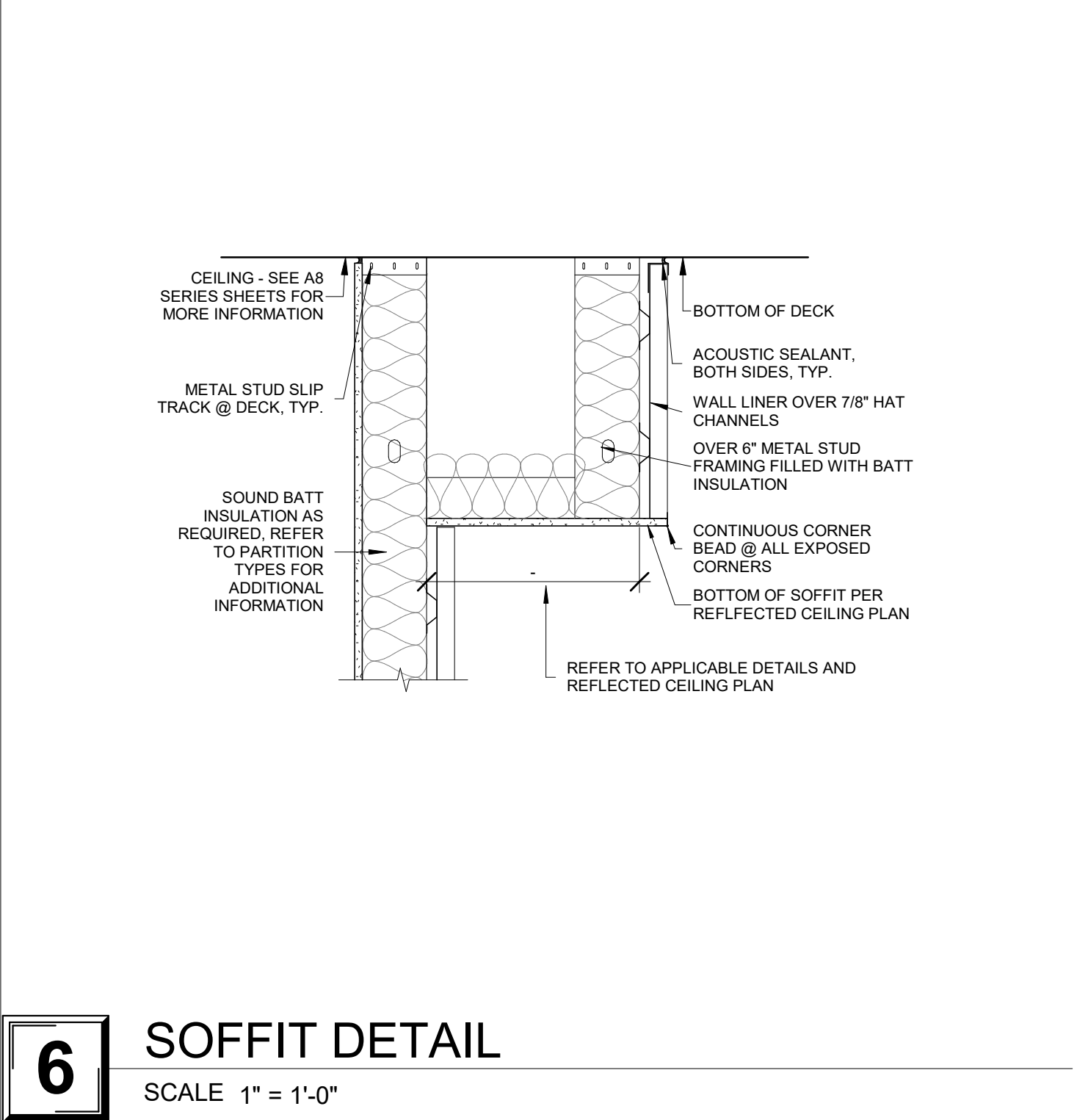
INTERIOR
ELEVATION

SHEET NUMBER:

A7-2

INTERIOR ELEVATION GENERAL NOTES

- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS TO COORDINATE CONNECTIONS WITH EQUIPMENT.
- ALL DIMENSIONS ON INTERIOR ELEVATIONS ARE TAKEN TO AND FROM THE FACES OF FINISHED MATERIAL.
- INSTALL WOOD BLOCKING TO WALL STRUCTURE TO SUPPORT ALL WALL-MOUNTED CASEWORK, ACCESSORIES, AND EQUIPMENT AS REQUIRED BY OWNER AND AS RECOMMENDED BY MANUFACTURER.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK.
- PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CABINETRY ABUTS A WALL.
- PROVIDE A 4" HIGH BACK SPLASHES AND SIDE SPLASHES ON ALL COUNTERS WITH SINKS, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WALL OUTLETS TO AVOID CONFLICT WITH CASEWORK.
- FIRE RATINGS OF WALLS ARE TO BE STENCIL PAINTED ONTO WALLS IN NON-VISIBLE LOCATIONS AND ABOVE CEILINGS. PROVIDE STENCILS NO LESS THAN 20'-0" ON CENTER AND NO MORE THAN 30'-0" ON CENTER.



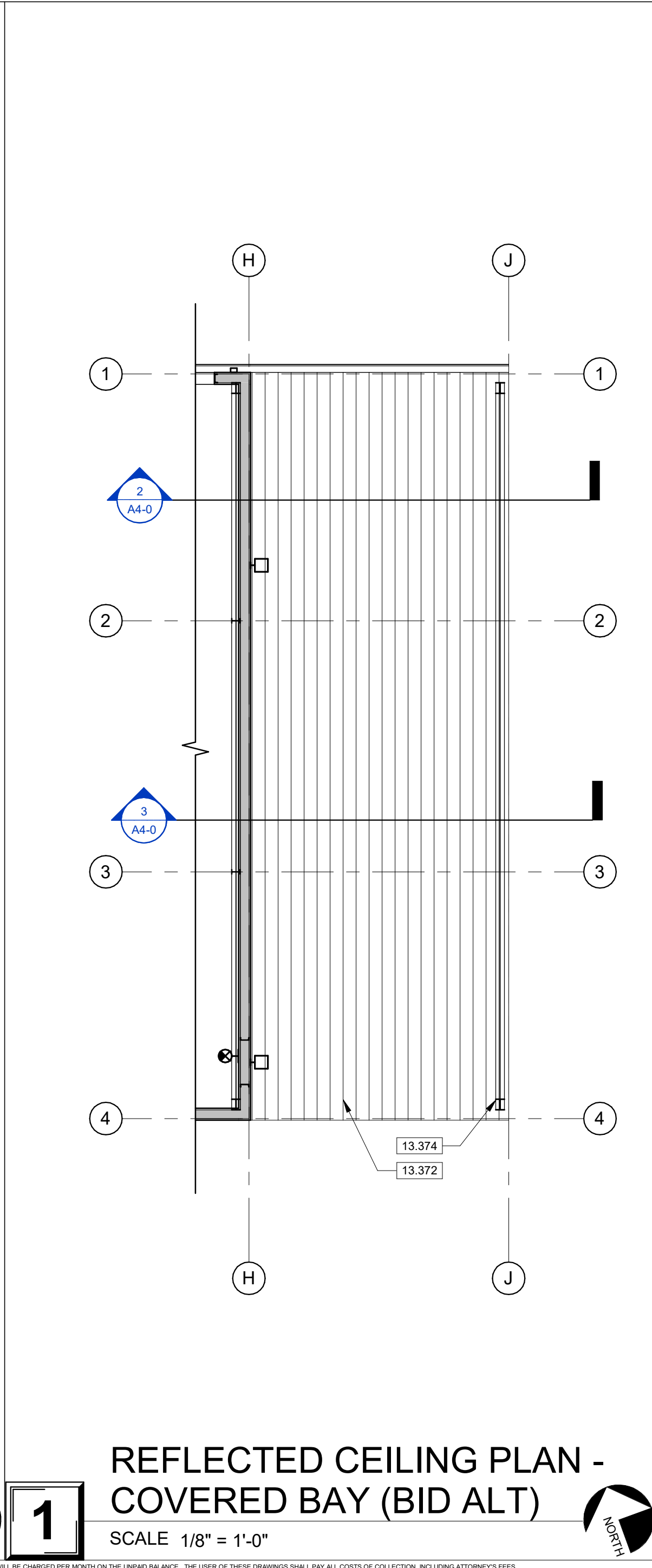
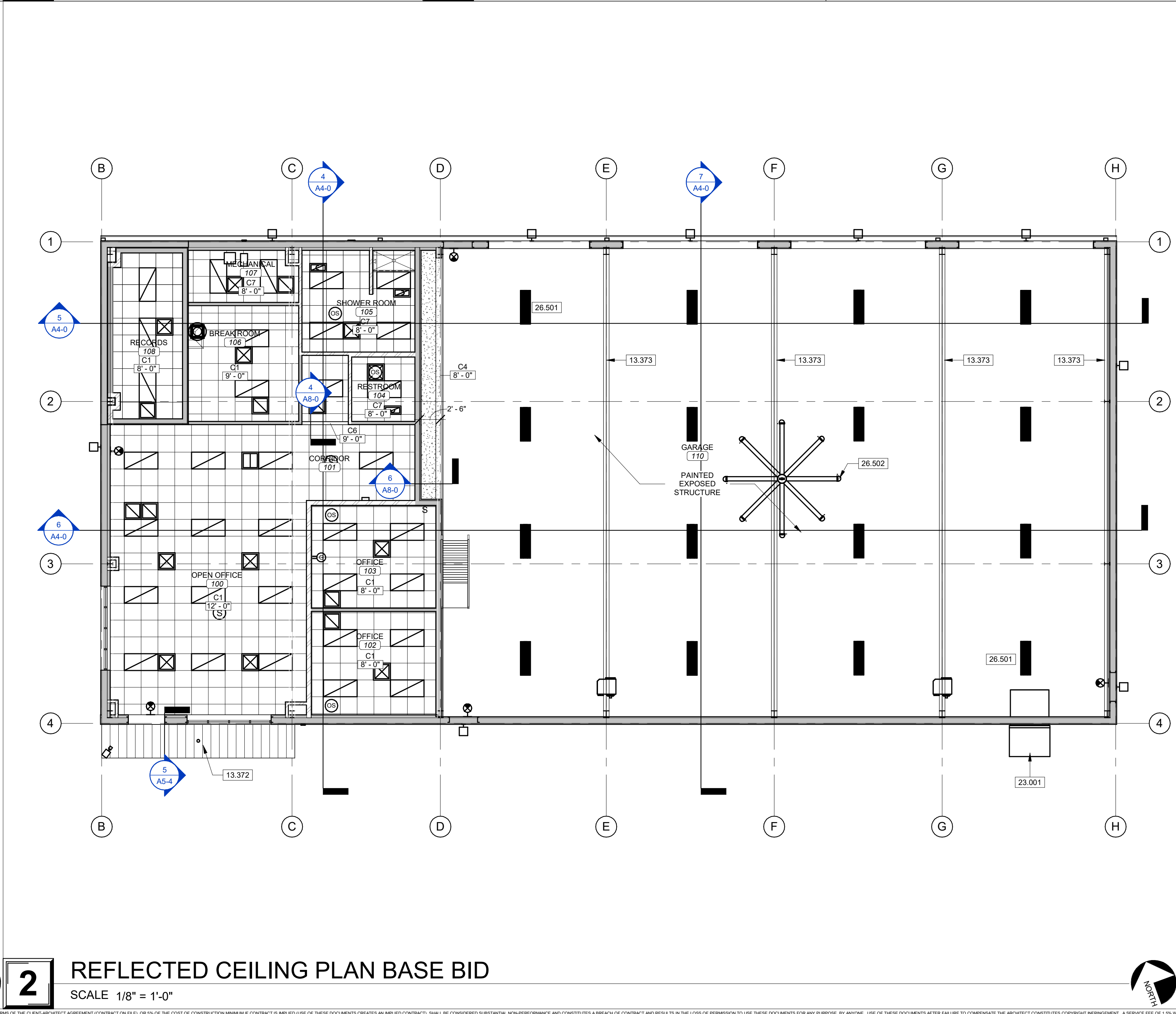
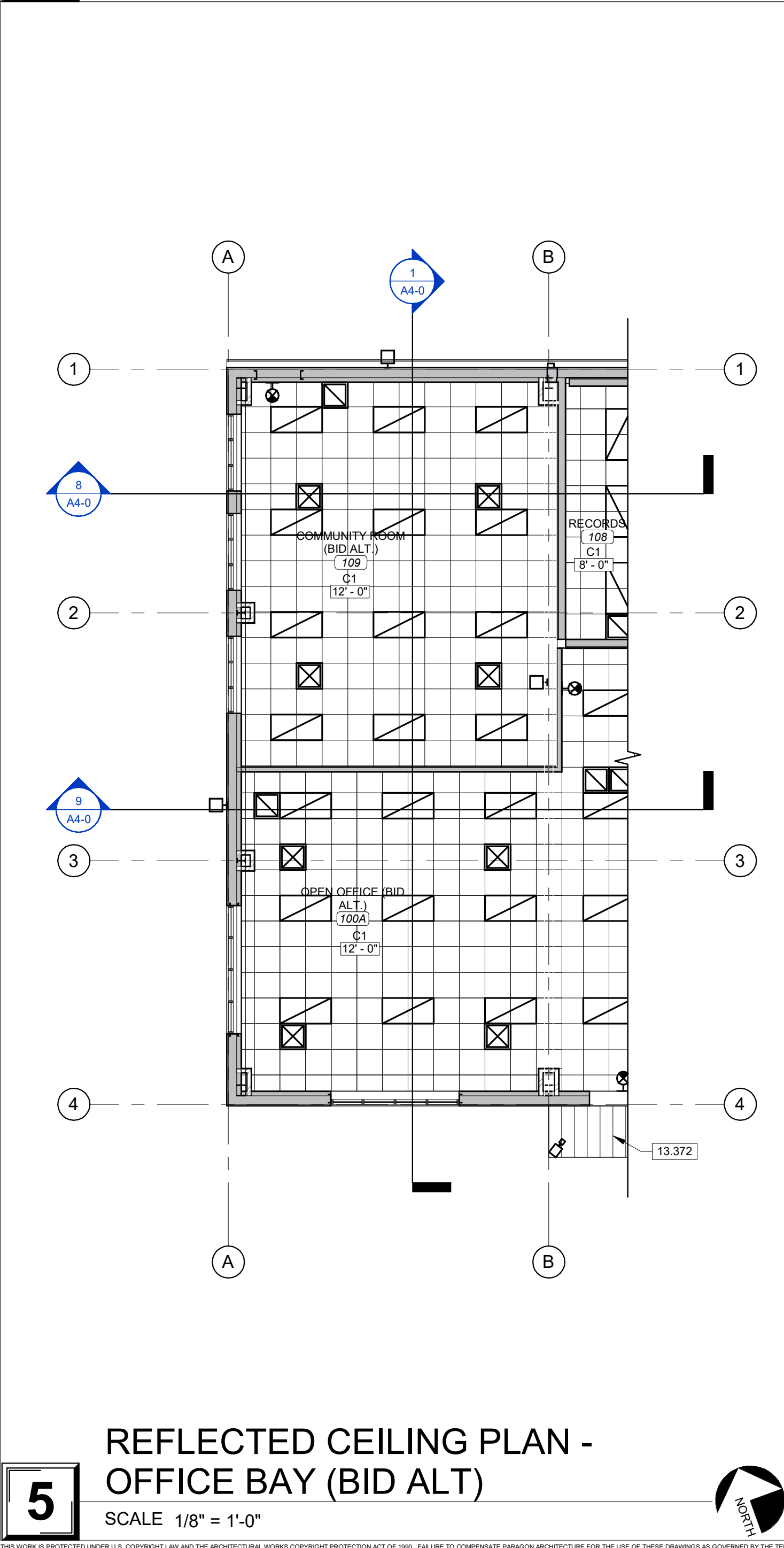
KEYNOTE LEGEND	
13.372	PRE-ENGINEERED METAL BUILDING SOFFIT PANELS. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.373	PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED, PT5. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
13.374	BID ALTERNATE PRE-ENGINEERED METAL BUILDING MAIN FRAME. PAINT WHERE EXPOSED. SEE SECTION 13.3419 METAL BUILDING SYSTEMS.
23.001	PACKAGED WALL FAN, COORDINATE FINISH WITH ARCHITECT, SEE MEP, SEE DIVISION 23.0000 SPECIFICATIONS.
26.502	CEILING FAN, SEE MEP, FAN SUPPORT BY PEMB SUPPLIER.

CEILING SCHEDULE	
C1	2X2 ACOUSTICAL CEILING TILE.
C4	GYPSUM BOARD SOFFIT ON METAL STUD FRAMING. REFER TO TYPICAL SOFFIT DETAILS FOR MORE INFORMATION.
C6	PAINTED GYPSUM BOARD BULKHEAD, PAINTED PT1. REFER TO TYPICAL BULKHEAD DETAIL FOR MORE INFORMATION.
C7	2X2 ACOUSTICAL VINYL MOISTURE-RESISTANT CEILING TILE.

REFLECTED CEILING PLAN LEGEND	
C1	CEILING TYPE
9'-0"	ELEVATION OF CEILING ABOVE FINISH FLOOR
PT1	CEILING FINISH PAINT COLOR (IF INDICATED)

RCP PARTITION: TOP OF WALL CONDITIONS	
	FRAMING TO DECK: WALL FRAMING EXTENDS TO ROOF DECKING. REFER TO WALL PARTITION TAG AND PARTITION LEGEND FOR MORE INFORMATION.
	UNATTACHED FRAMING: WALL FRAMING REMAINS UNATTACHED FROM ROOF DECKING. REFER TO WALL PARTITION TAG AND PARTITION LEGEND FOR MORE INFORMATION.

- RCP GENERAL NOTES**
- ALL EXPOSED GYPSUM BOARD CEILINGS, SOFFITS, AND BULKHEADS ARE TO BE PAINTED. REFER TO FINISH LEGEND FOR MORE INFORMATION ON PAINT COLOR(S) IDENTIFIED BY CEILING TAGS.
 - ALL STRUCTURE, FRAMING, DUCTWORK, MECHANICAL, AND ELECTRICAL ITEMS EXPOSED TO VIEW ARE TO BE PAINTED WITH DRYFALL PAINT UNLESS NOTED OTHERWISE.
 - CEILING HEIGHT ELEVATIONS ARE NOTED FROM THE FINISH FLOOR OF THE CORRESPONDING LEVEL. COORDINATE REFLECTED CEILING PLAN WITH LIGHTING, MECHANICAL, AND PLUMBING PLANS. COORDINATE LIGHT FIXTURES AND DIFFUSER PLACEMENT. CONTACT ARCHITECT IF DISCREPANCIES ARE FOUND AND DOCUMENT IN WRITING.
 - LIGHTING AND EXPOSED MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING SERIES SHEETS FOR ADDITIONAL INFORMATION.
 - PROVIDE APPROPRIATE FINISH AND/OR TRIM AT ALL PENETRATIONS IN WALLS, FLOORS, AND AT EXPOSED FINISH CEILING LOCATIONS. CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT ALL MINOR GAPS AND AT EXPOSED PENETRATIONS. WHERE LARGE GAPS OR ROUGH CUT PENETRATIONS OCCUR THE CONTRACTOR SHALL PROVIDE SHEET METAL TRIM AS NECESSARY FOR A FINISHED APPEARANCE. PAINT TRIM AND SEALANTS TO MATCH ADJACENT WALL FINISHES AND/OR CEILING FINISHES. COORDINATE PAINT COLOR WITH ARCHITECT.
 - CONTRACTOR TO PROVIDE WATER-JET TRIM RINGS AND CLOSURES AT ALL PENETRATIONS THROUGH SOFFIT PANELS.



PARAGON ARCHITECTURE

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JARED A. YOUNGLOVE ARCHITECT
NUMBER A-2017019282
MO #: A-2017019282

6.29.23

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200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT DESCRIPTION:

PROJECT ARCHITECT: JAY
DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

PROJECT NUMBER:
23-777

DATE:
2023.06.29

REFLECTED CEILING PLAN

SHEET NUMBER:
A8-0



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DRAWN BY: KW, TD
CHECKED BY: KW, JY, JS

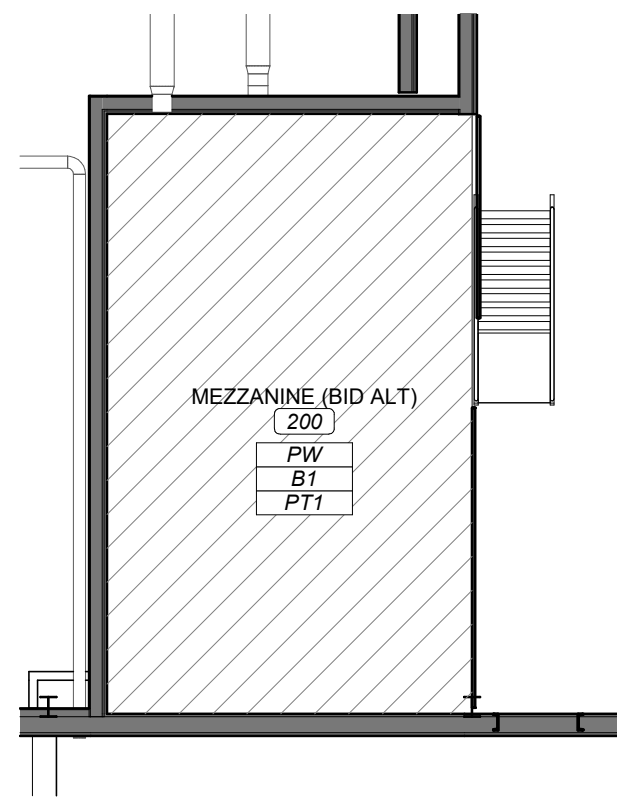
PROJECT NUMBER:
23-777

DATE:
2023.06.29

FINISH PLAN

SHEET NUMBER:

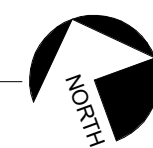
A9-0



3

FINISH PLAN - MEZZANINE

SCALE 1/8" = 1'-0"



FINISH PLAN LEGEND



CPT1: CARPET TILE
MANUFACTURER: J-J FLOORING. PRODUCT: KINETEX. PATTERN: GAME
CHANGER. COLOR: MOMENT. SIZE: 24"X24". PATTERN: MONOLITHIC.



CPT2: CARPET TILE
MANUFACTURER: J-J FLOORING. PRODUCT: KINETEX. PATTERN: GAME
CHANGER. COLOR: STRIKE. SIZE: 24"X24". PATTERN: MONOLITHIC.



LVT1: LUXURY VINYL TILE
MANUFACTURER: J-J FLOORING. PRODUCT: FRAMEWORK. COLOR: BEAM.
SIZE: 9"X48". PATTERN: RUNNING BOND.



SC: SEALED CONCRETE WITH SOLID COLOR STAIN. BASIS-OF-DESIGN TO BE
H&C HEAVY SHIELD WATER-BASED SOLID COLOR STAIN. COLOR: TO BE
SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.

NOTE: TROWELED, LEVEL 2 SATIN FINISH IN OFFICE AREA.
FINE BROOM FINISH IN GARAGE.



PW: UNFINISHED PLYWOOD

WALL BASE

B1: 4" RESILIENT WALL BASE. BASIS-OF-DESIGN TO BE JOHNSONITE TRADITIONAL WALL BASE.
COLOR: GATEWAY

B2: 4" RESILIENT WALL BASE USED AT BASE CABINET TOE KICK. BASIS-OF-DESIGN TO BE
JOHNSONITE TRADITIONAL WALL BASE. COLOR: WETLANDS

PAINT

PT1 THROUGH 6: PAINT COLORS. BASIS-OF-DESIGN TO BE SHERWIN-WILLIAMS EGGSHELL
UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN FOR CEILING COLORS.

PT1: FIELD COLOR: USEFUL GRAY, SW7050
PT2: ACCENT COLOR: KEYSTONE GRAY, SW7504
PT3: ACCENT COLOR: ISLE OF PINES, SW6461
PT4: HOLLOW METAL DOOR & FRAME. SEMI-GLOSS: VARIES - COORD W/ ARCH
PT5: DRYFALL PAINT, USEFUL GRAY, SW7050
PT6: EPOXY COLOR: USEFUL GRAY, SW7050

PLASTIC LAMINATE

PLAM: PLASTIC LAMINATE. BASIS-OF-DESIGN: WILSONART UNLESS NOTED OTHERWISE.

PLAM1: COLOR: LANDMARK WOOD. LOCATION: VERTICAL SURFACES.

OTHER

T1: WALL TILE. BASIS-OF-DESIGN: DALTILE. PRODUCT: COLOR WHEEL. COLOR: ARCHITECTURAL
GRAY. MATTE FINISH. SIZE: 8"X24". PATTERN: RUNNING BOND. GROUT: BASIS-OF-DESIGN:
BOSTIK. COLOR: NATURAL. PROVIDE CONTINUOUS TRIM AT EXPOSED TOP EDGE OF WALL TILE
AND AT OUTSIDE WALL CORNERS. BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE.

T2: WALL TILE. BASIS-OF-DESIGN: DALTILE. PRODUCT: COLOR WHEEL. COLOR: ARCHITECTURAL
GRAY. GLOSS FINISH. SIZE: 8"X24". PATTERN: RUNNING BOND. GROUT: BASIS-OF-DESIGN:
BOSTIK. COLOR: NATURAL. PROVIDE CONTINUOUS TRIM AT EXPOSED TOP EDGE OF WALL TILE
AND AT OUTSIDE WALL CORNERS. BASIS-OF-DESIGN: SCHLUTER SHIENE-10-AE.

TP: TOILET PARTITIONS. BASIS-OF-DESIGN: SCRANTON HINY HIDERS. FINISH: ORANGE PEEL.
COLOR: CHARCOAL GRAY.

QZ1: QUARTZ COUNTERTOPS. BASIS-OF-DESIGN: DALTILE, ONE QUARTZ. COLOR: WHITE ICE.
3 CM THICK.

WD: WOOD DOOR FINISH. BASIS-OF-DESIGN: MANUFACTURER: VT INDUSTRIES, ARCHITECTURAL
WOOD DOORS. SPECIES: WHITE BIRCH. COLOR: CHOCOLATE.

CG: CORNER GUARDS. BASIS-OF-DESIGN: INPRO STAINLESS STEEL CORNER GUARDS,
8'-0" HEIGHT.

METAL LOCKERS: BASIS OF DESIGN: Penco PRODUCTS. PATRIOT FULLY FRAMED DUTY
LOCKERS - 24" WIDTH. COLOR: GRAY.

LP: LINER PANELS. BASIS-OF-DESIGN: MBCI-SIGNATURE 200, FULL-HEIGHT. COLOR: TO BE
SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.

RS: ROLLER SHADES. BASIS-OF-DESIGN: CROWN SHADE. INTERIOR ROLLER SHARE. CORDLESS.
PRODUCT LINE TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.

FRP: RIGID SHEET. BASIS-OF-DESIGN: INPRO SANI-SURFACE HYGIENIC WALL CLADDING.
PROVIDE RIGID SHEET TRIMS (TOP CAP, DIVIDER BAR AND INSIDE CORNER). INSTALL AT 8'-0"
AFF.

GENERAL NOTES

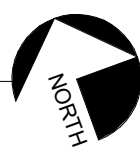
- TRANSITION BETWEEN FLOORING TYPES MUST INCLUDE A TRANSITION STRIP AND/OR
NOSING IF TRANSITION IS GREATER THAN 1/4". TRANSITION STRIP AND/OR NOSING IN A
COLOR MATCHING WALL BASE COLOR, OR METAL FOR TILE, UNLESS NOTED OTHERWISE.
- REVIEW AND RECEIVE WRITTEN APPROVAL FOR ALL GRAPHICS WITH ARCHITECT AND
OWNER OF WALL COVERINGS AND VINYL FILM BEFORE ORDERING.
- REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL FINISH INFORMATION.
- FIELD FLOOR FINISH NOTATED WITHIN FINISH TAG. ACCENT FLOOR FINISHES ARE SHOWN
WITH A HATCH PATTERN ON FINISH PLANS WHERE APPLICABLE.

SC — FIELD FLOOR FINISH
B1 — BASE FINISH
PT1 — FIELD PAINT FINISH

2

FINISH PLAN - BID ALT

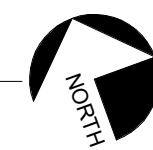
SCALE 1/8" = 1'-0"



1

FINISH PLAN - BASE BID

SCALE 1/8" = 1'-0"



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HVAC AIR DEVICES & DUCTWORK

	SUPPLY AIR DEVICE (4-WAY)
	SUPPLY AIR DEVICE (3-WAY)
	SUPPLY AIR DEVICE (2-WAY)
	RETURN/EXHAUST AIR DEVICE
	EXISTING SUPPLY AIR DEVICE
	EXISTING RETURN AIR DEVICE
	SIDEWALL AIR DEVICE
	AIR DEVICE TAG WITH DEVICE TYPE, FLOW NOMINAL SIZE AND (TYPICAL)
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	RECTANGULAR DUCT WIDTHxHEIGHT
	ROUND DUCT (SPIRAL)
	EXISTING DUCTWORK
	ROUND DUCT (SNAP-LOCK)
	ROUND DUCT TAKEOFF
	EQUIPMENT TAG W/EQUIPMENT TYPE AND IDENTIFICATION NUMBER

HVAC SENSORS & SYMBOLS

	THERMOSTAT
	TEMPERATURE SENSOR
	TEMPERATURE CONTROLLER
	HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	CARBON DIOXIDE SENSOR - DUCT MOUNT
	CARBON MONOXIDE SENSOR
	BALANCING DAMPER
	MOTORIZED DAMPER W/ADJUSTABLE STOP
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	ZONE DAMPER
	BYPASS DAMPER
	MECHANICAL EQUIPMENT

ELECTRICAL SWITCHES

MOUNT AT 48" ABOVE FINISH FLOOR (AFF) UNLESS OTHERWISE NOTED. WHEN MOUNTED IN MASONRY, SWITCH MOUNTING HEIGHT SHALL ALIGN WITH MASONRY COURSING NEAREST TO 48" (MID-POINT) AFF, BUT SHALL NOT BE HIGHER THAN 48" (MID-POINT) AFF.

PROVIDE A 4" SQUARE JUNCTION BOX AND 3/4" CONDUIT WITH DE-BURRED ENDS, INCLUDING 90° SWEEP, INTO ACCESSIBLE CEILING SPACE. FOR SINGLE-GANG OUTLETS IN FRAMED WALLS, PROVIDE A SINGLE-GANG PLASTER RING.

S	SINGLE POLE SWITCH
S 2	DOUBLE POLE SWITCH
S 3	THREE-WAY SWITCH
S 4	FOUR-WAY SWITCH
S D	DIMMER SWITCH
S M	MOTOR RATED SWITCH
S K	KEYED SWITCH
S 2K	2-POLE KEYED SWITCH
S 3K	3-WAY KEYED SWITCH
S T	TIME SWITCH
S P	PILOT LIGHT SWITCH
	WALL BOX OCCUPANCY SENSOR
	OCCUPANCY SENSOR - CEILING MOUNTED
	OCCUPANCY SENSOR - WALL MOUNTED
	PHOTOELECTRIC CONTROL (PEC)

RECEPTACLES

UNLESS IN FLOOR BOX, MOUNT AT HEIGHT SCHEDULED ABOVE FINISH FLOOR (AFF). WHEN MOUNTED IN MASONRY, RECEPTACLE MOUNTING HEIGHT SHALL ALIGN WITH MASONRY COURSING NEAREST TO SCHEDULED HEIGHT, BUT SHALL NOT BE LOWER THAN 16" (MID-POINT) AFF.

	RECEPTACLE-REFER TO RECEPTACLE SCHEDULE
	QUADRUPEX RECEPTACLE-REFER TO RECEPTACLE SCHEDULE
	RECEPTACLE IN FLOOR BOX, REFER TO KEYED NOTES ON PLAN
	QUAD. RECEPTACLE IN FLOOR BOX, REFER TO KEYED NOTES ON PLAN
	SPECIAL RECEPTACLE, NUMERIC 'X-XX' INDICATES NEMA CONFIGURATION

EQUIPMENT

INSTALL EQUIPMENT TO COMPLY WITH WORKING SPACE REQUIREMENTS LISTED IN ARTICLE 110 OF THE NATIONAL ELECTRICAL CODE.

	LOAD CENTER, PANELBOARD, SWITCHBOARD, OR MOTOR CONTROL CENTER
	DISCONNECT SWITCH WITH AMPACITY AND NUMBER OF POLES INDICATED
	JUNCTION BOX
	DIRECT EQUIPMENT CONNECTION
	ELECTRIC HAND DRYER
	MOTOR LOAD: EF - EXHAUST FAN AHU - AIR HANDLING UNIT P - PUMP CU - CONDENSING UNIT OHD - OVERHEAD DOOR CF - CEILING FAN RTU - ROOFTOP UNIT
	PUSHBUTTON OPERATOR: EMS - EMERGENCY STOP DAW - DOOR ACTUATOR - WALL MOUNTED DAP - DOOR ACTUATOR - PEDESTAL MOUNTED PTE - EMERGENCY PUSH TO EXIT
	MOTOR STARTER
	TRANSFORMER
	CIRCUIT HOMERUN
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	UNDERGROUND TELEPHONE
	OVERHEAD TELEPHONE

COMMUNICATION OUTLET ROUGH-IN

MOUNT AT 48" ABOVE FINISH FLOOR (AFF) UNLESS OTHERWISE NOTED. WHEN MOUNTED IN MASONRY, SWITCH MOUNTING HEIGHT SHALL ALIGN WITH MASONRY COURSING NEAREST TO 48" (MID-POINT) AFF, BUT SHALL NOT BE LOWER THAN 16" (MID-POINT) AFF.

PROVIDE A 4" SQUARE JUNCTION BOX AND 3/4" CONDUIT WITH DE-BURRED ENDS, INCLUDING 90° SWEEP, INTO ACCESSIBLE CEILING SPACE. FOR SINGLE-GANG OUTLETS IN FRAMED WALLS, PROVIDE A SINGLE-GANG PLASTER RING.

	SINGLE-GANG OUTLET
	COMBINATION TELEPHONE/DATA OUTLET
	DATA OUTLET
	TELEVISION OUTLET BOX
	TELEPHONE/DATA OUTLET IN RECESSED FLOOR BOX
	INTERCOM OUTLET BOX
	INTERCOM SPEAKER
	CLOCK - SINGLE FACE
	CLOCK - DOUBLE FACE

FIRE ALARM

COMPLY WITH REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FOR CEILING-MOUNTING AND/OR WALL-MOUNTING HEIGHTS OF FIRE ALARM DEVICES.

	SMOKE DETECTOR
	COMBINATION SMOKE & CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	CEILING-MOUNTED STROBE
	WALL-MOUNTED STROBE
	WALL-MOUNTED HORN/SPEAKER WITH STROBE
	CEILING-MOUNTED HORN/SPEAKER WITH STROBE
	WALL-MOUNTED HORN/SPEAKER
	TAMPER SWITCH
	FLOW SWITCH
	MAGNETIC DOOR HOLDER
	MAGNETIC DOOR HOLDER - WALL MOUNTED
	MANUAL PULL STATION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR
	DUCT SMOKE DETECTOR
	DUCT HEAT DETECTOR

LIGHT FIXTURES

	LAY-IN/RECESSED 24" X 48" OR 24" X 24" FLUORESCENT OR LED LIGHT
	SURFACE 24" X 48" OR 24" X 24" FLUORESCENT OR LED LIGHT
	STRIP, SUSPENDED, OR SURFACE MOUNT LIGHT
	INDUSTRIAL FLUORESCENT OR LED LIGHT
	DOWNLIGHT/CAN LIGHT OR WALL WASH LIGHT
	WALL MOUNTED LIGHT
	PENDANT LIGHT
	EXIT LIGHT, DIRECTIONAL EXIT LIGHT, OR EXIT/EMERGENCY LIGHT
	DUAL HEAD EMERGENCY LIGHT OR REMOTE HEAD

PIPE LABELS

	WATER SERVICE
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	BUILDING WASTE/SEWER
	KITCHEN WASTE
	VENT
	STORM DRAIN
	OVERFLOW DRAIN
	GAS
	HIGH PRESSURE GAS
	COMPRESSED AIR
	VACUUM
	FILTERED WATER
	EXISTING PIPE
	PIPE BELOW GRADE
	REFRIGERANT PIPING
	CONDENSATE PIPING

VALVES & FITTINGS

	BALL VALVE
	CIRCUIT BALANCING VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	CAP
	EQUIPMENT CONNECTION
	ELBOW UP
	ELBOW DOWN
	TEE
	ELBOW
	TEE UP
	TEE DOWN
	WATER HAMMER ARRESTOR
	PIPING CONTINUATION

PLUMBING SYMBOLS

	REDUCED PRESSURE BACKFLOW PREVENTER
	FLOOR DRAIN
	CLEANOUT
	OUTDOOR CLEANOUT
	WALL CLEANOUT
	FLOOR SINK
	ROOF DRAIN
	GAS PRESSURE REGULATOR
	GAS METER
	WATER METER

FIRE PROTECTION

	FLOW SWITCH
	SIAMESE FIRE DEPT. CONN.
	BACKFLOW PREVENTER
	SPRINKLER HEAD
	HOSE CABINET
	VALVE CABINET

GENERAL MEP SYMBOLS & ABBREVIATIONS

	PLAN KEY NOTE IDENTIFIER
	DENOTES "CONNECT TO EXISTING"
	DETAIL REFERENCE IDENTIFIER
	PLAN REVISION IDENTIFIER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
TOF	TOP OF FIXTURE
BOF	BOTTOM OF FIXTURE
COF	CENTER OF FIXTURE
AC	ABOVE COUNTER
BC	BELOW COUNTER
GFI	GROUND FAULT INTERRUPTER
WP	WEATHER PROOF
TL	TWISTLOCK
TP	TAMPER PROOF
NIC	NOT IN CONTRACT
CLG	CEILING
UNO	UNLESS NOTED OTHERWISE
MFG	MANUFACTURER
NTS	NOT TO SCALE
RE	REFER TO, REFERENCE
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
EM	EMERGENCY
NL	NON-SWITCHED NIGHT LIGHT
HOR	HORIZONTAL
FACP	FIRE ALARM CONTROL PANEL
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
TW	TEMPERED WATER
FW	FILTERED WATER
WS	WATER SERVICE
SS	SANITARY SEWER
V	VENT
VTR	VENT THROUGH ROOF
EF	EXHAUST FAN
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
CU	CONDENSING UNIT
RTU	ROOF TOP UNIT
CF	CEILING FAN
P	PUMP
UH	UNIT HEATER
FCU	FAN COIL UNIT
SF	SUPPLY FAN
OHD	OVERHEAD DOOR
GH	BASKETBALL GOAL HOIST

SECURITY

	SECURITY/CCTV CAMERA
	DOOR BUZZER
	DOOR BELL/CHIME
	CARD READER
	ELECTRIC DOOR LOCK
	MAGNETIC DOOR LOCK
	ACCESS KEYPAD
	MOTION SENSOR
	GLASS BREAK SENSOR



MISSOURI STATE CERTIFICATE OF ARCHITECT NUMBER A-201000419
637 COLLEGE STREET
SPRINGFIELD, MO 65806

PH: 417.885.0002
www.paragonarchitecture.com

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100% CD
REVISION SCHEDULE

PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
CHECKED BY: CRD/KNC

PROJECT NUMBER:
23-777

DATE:
2023.06.29

SYMBOLS
LEGEND

SHEET NUMBER:

PME1-0



CONWAY DUNCAN
600 WEST COLLEGE | SUITE 102
SPRINGFIELD | MISSOURI | 65806
P: 417.881.1586
MISSOURI COA: E-2014013301

KEY NOTES

INDICATED BY SYMBOLS ①, ②, ETC.

1 INSTALL BOTTOM OF UNIT HEATER
15'-0" ABOVE FINISHED FLOOR.

2 WALL CAP WITH SCREEN. PAINT TO
MATCH EXTERIOR.

3 PROVIDE AIR CIRCULATOR EQUAL TO
"MACROAIR" AIRVOLUTION D 550, 14"
DIAMETER, 208V, 1 PHASE, 24 FLA.
PROVIDE WITH WALL CONTROLLER
AND INSTALLATION HARDWARE AS
RECOMMENDED BY MANUFACTURER.
PROVIDE EXTENSION TUBES AS
REQUIRED TO MEET INDICATED
HEIGHT. INSTALL CIRCULATOR 17'-8"
ABOVE FINISHED FLOOR.

4 PROVIDE 48x48 COMBINATION
LOUVER/DAMPER EQUAL TO
"GREENHECK" MODEL ECD-401 W/
120V ACTUATOR, INSECT SCREEN
AND JAMB & BLADE SEALS. INSTALL
LOUVER 48" ABOVE FINISHED FLOOR.
INTERLOCK LOUVER WITH EF-3 SUCH
THAT LOUVER IS OPEN WHEN FAN IS
IN OPERATION.

5 PROVIDE RANGE HOOD EQUAL TO
GREENHECK MODEL
#GRRS-W-30-T-E-O-N WITH RANGE
ELECTRIC SHUTOFF, INTEGRAL FIRE
SUPPRESSION SYSTEM, GREASE
FILTERS, AND PULL STATION.
INSTALL HOOD 30" ABOVE RANGE
COOK LINE. ROUTE 12" GREASE DUCT
UP FROM HOOD TO EXHAUST FAN ON
ROOF.



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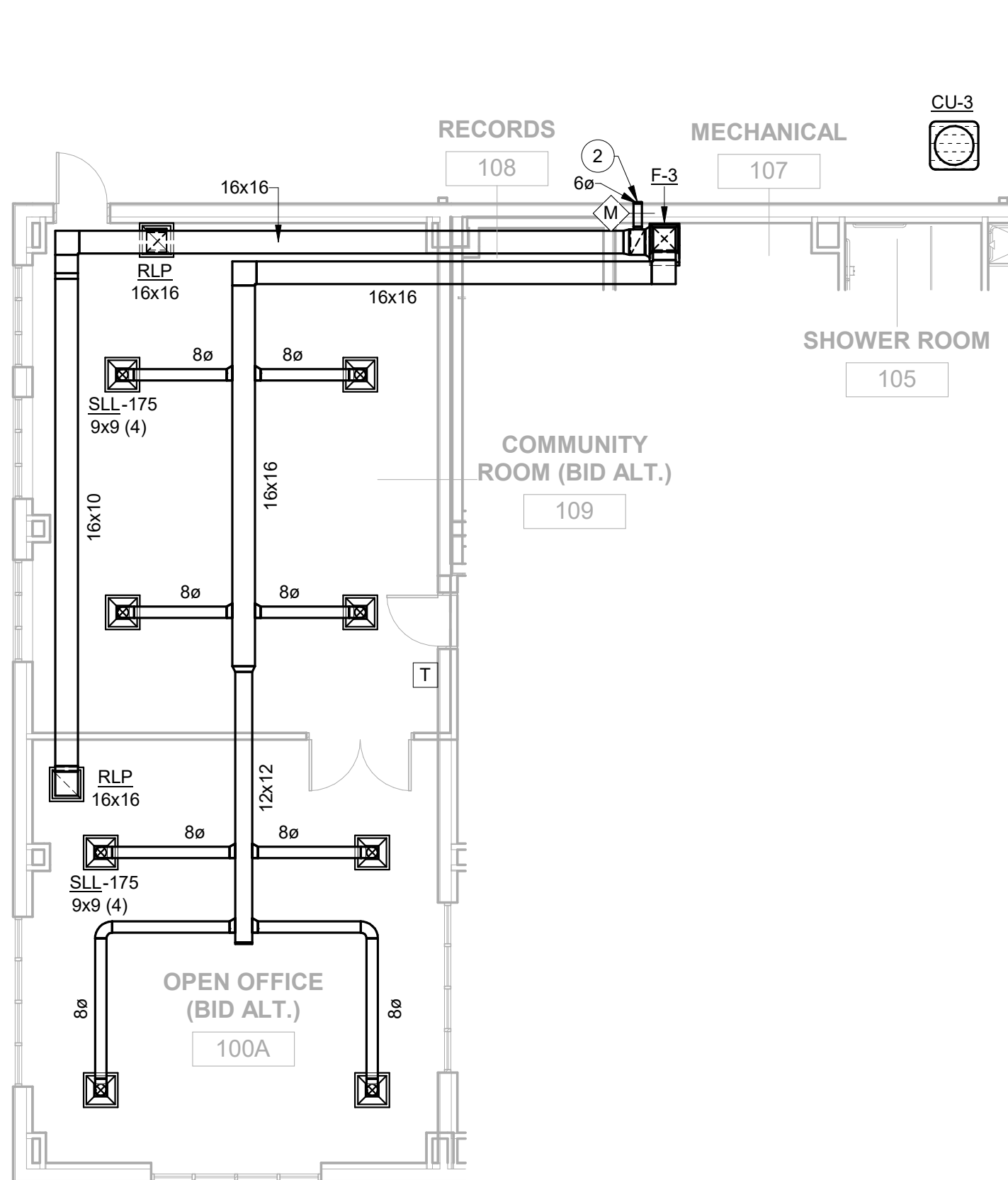
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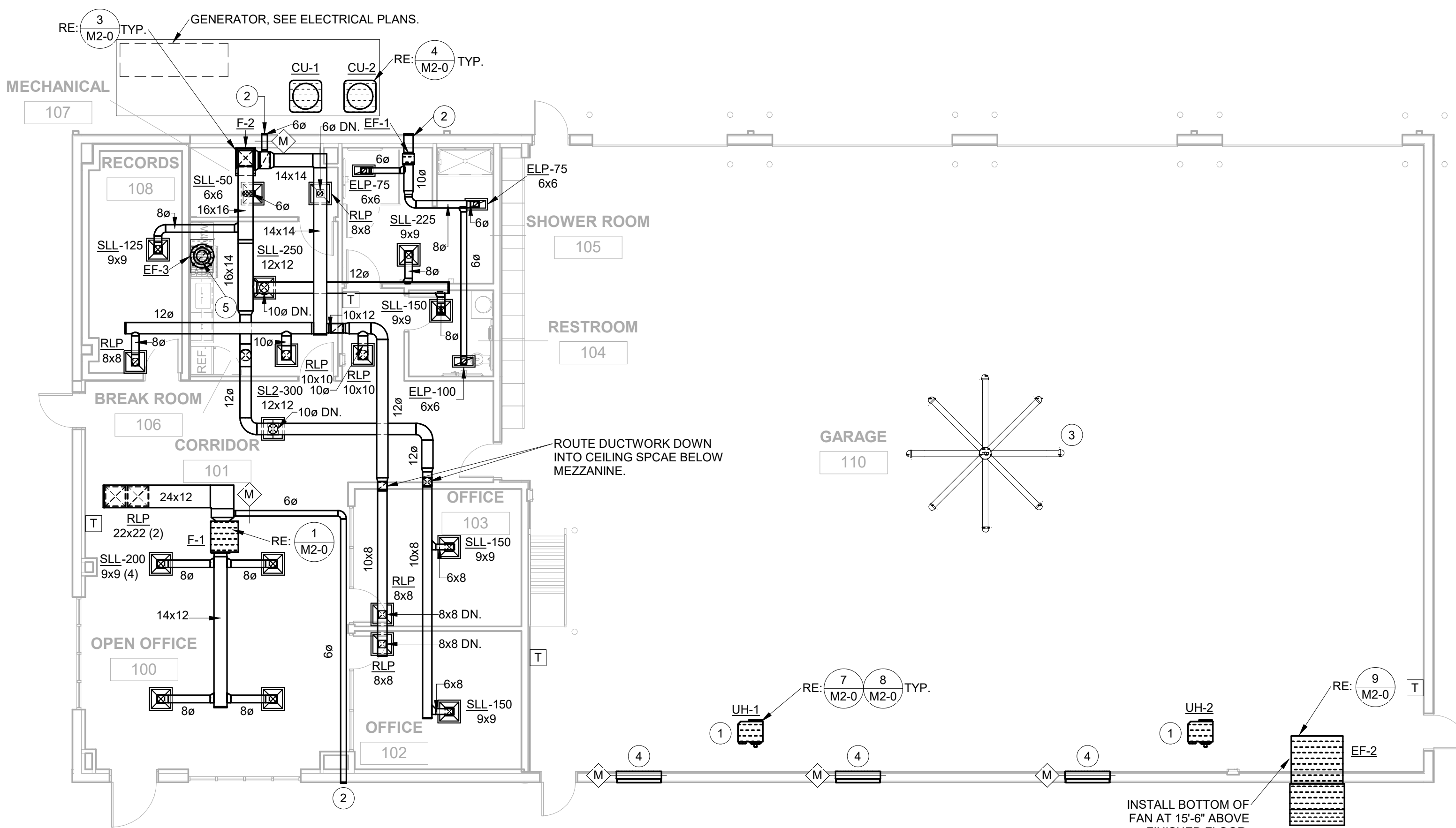


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HVAC PLAN BID ALT
SCALE 1/8" = 1'-0"



HVAC PLAN
SCALE 1/8" = 1'-0"



CONWAY DUNCAN
600 WEST COLLEGE | SUITE 102
SPRINGFIELD | MISSOURI | 65806
P: 417.881.1586
MISSOURI COA: E-2014013301

PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
CHECKED BY: CRD/KNC

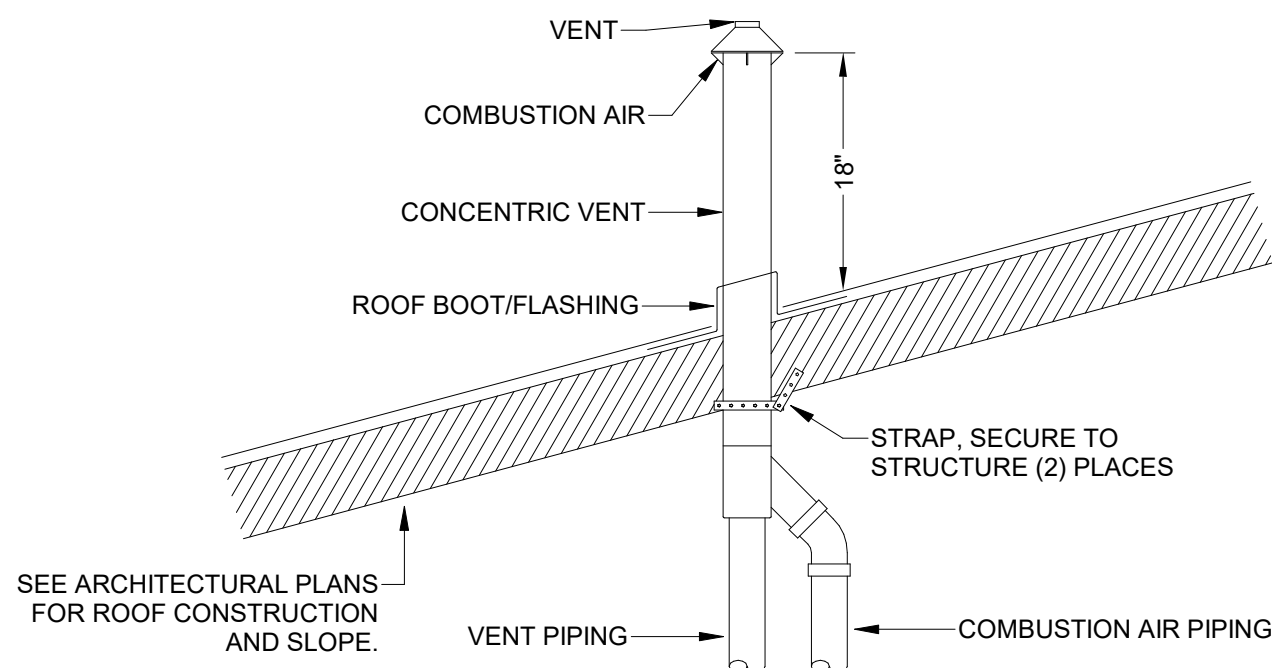
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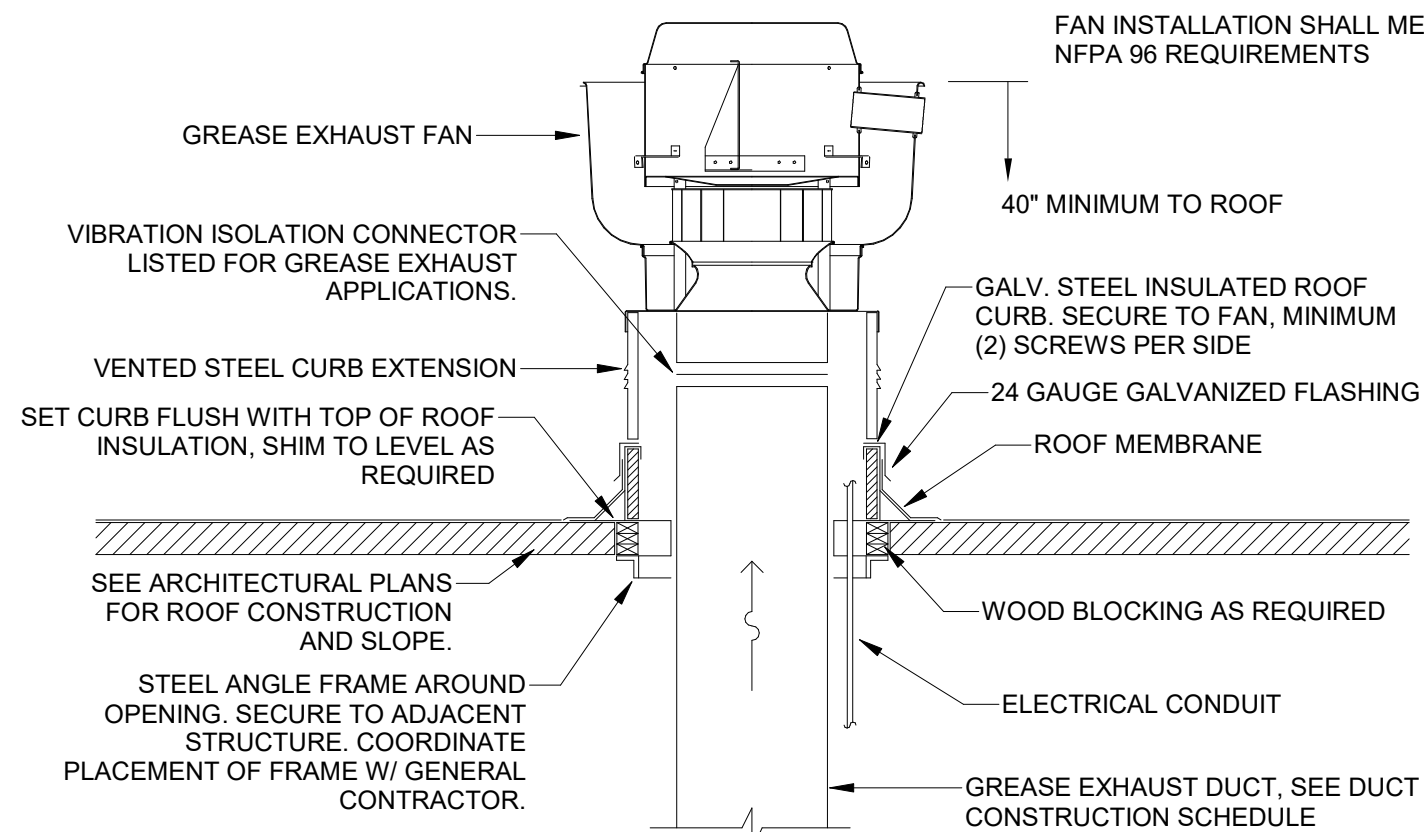
HVAC PLAN

SHEET NUMBER:

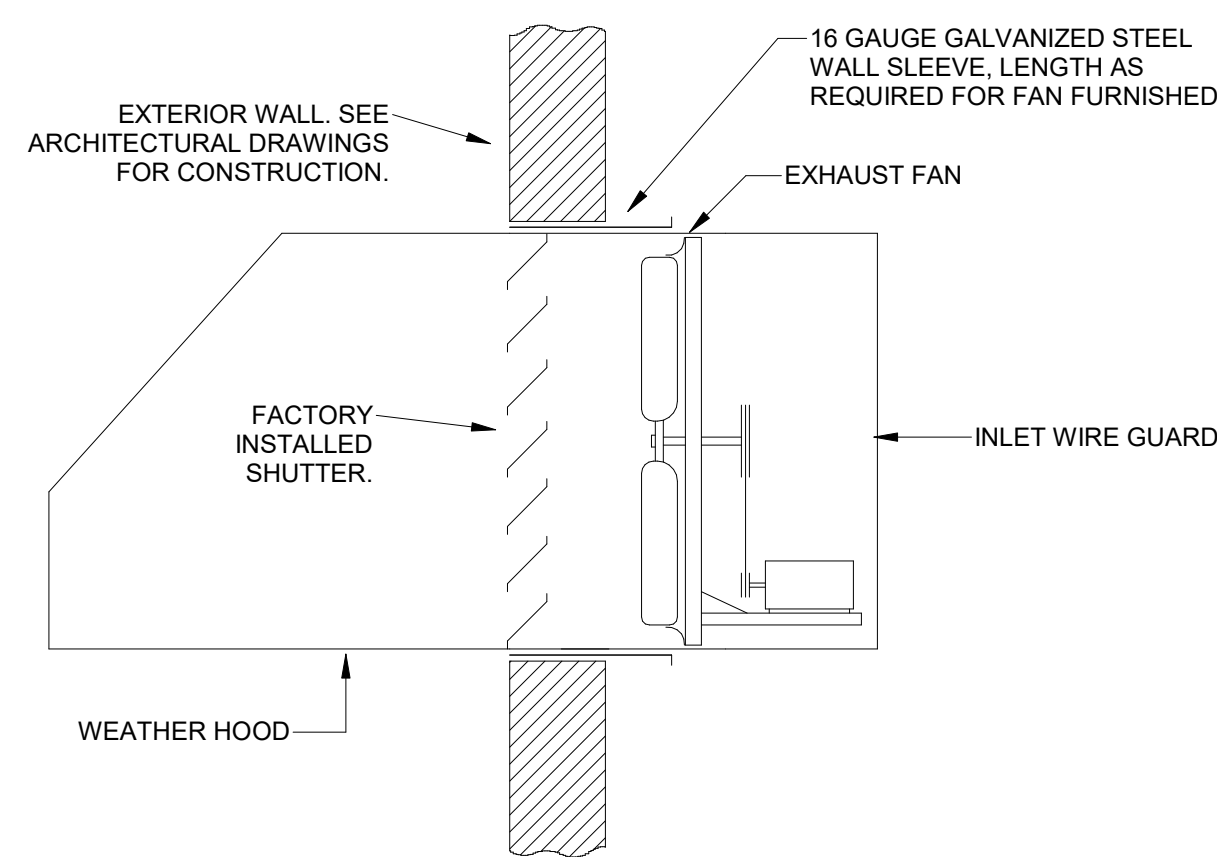
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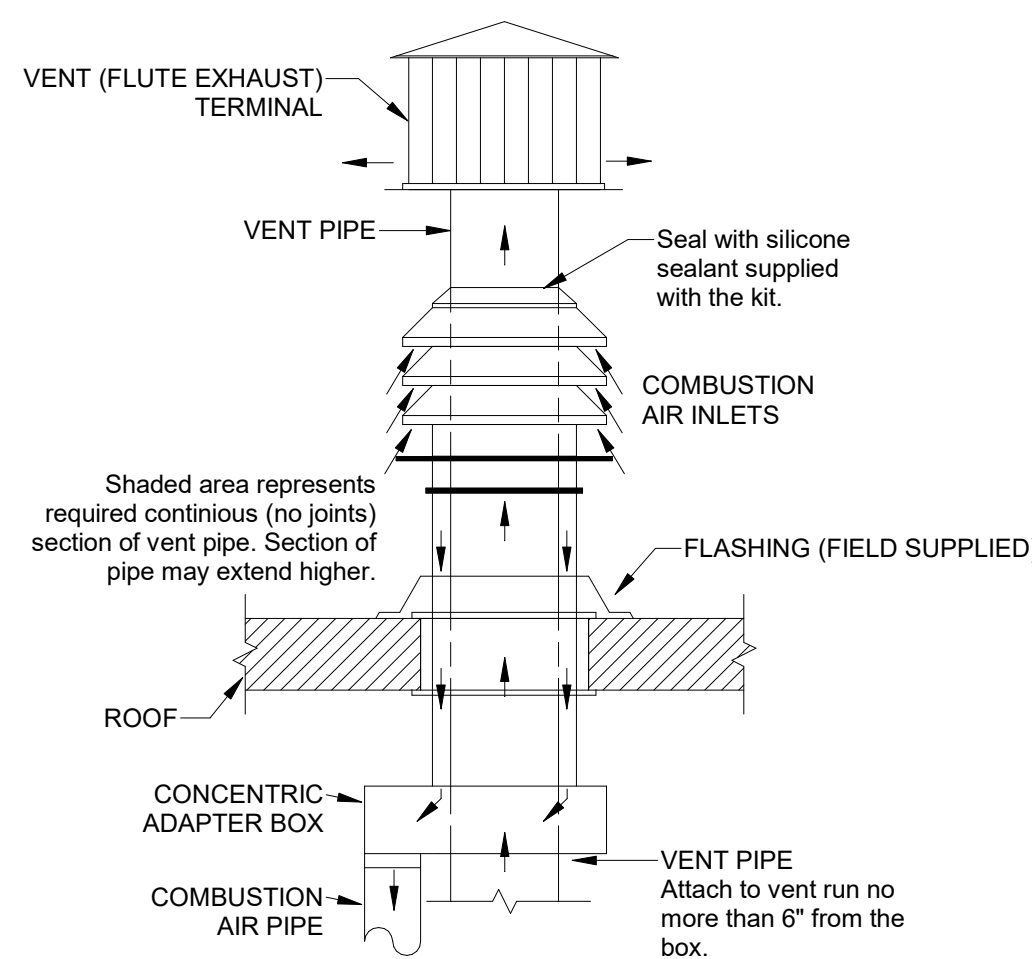
11
M2-0
ROOF CONCENTRIC VENT DETAIL
NOT TO SCALE



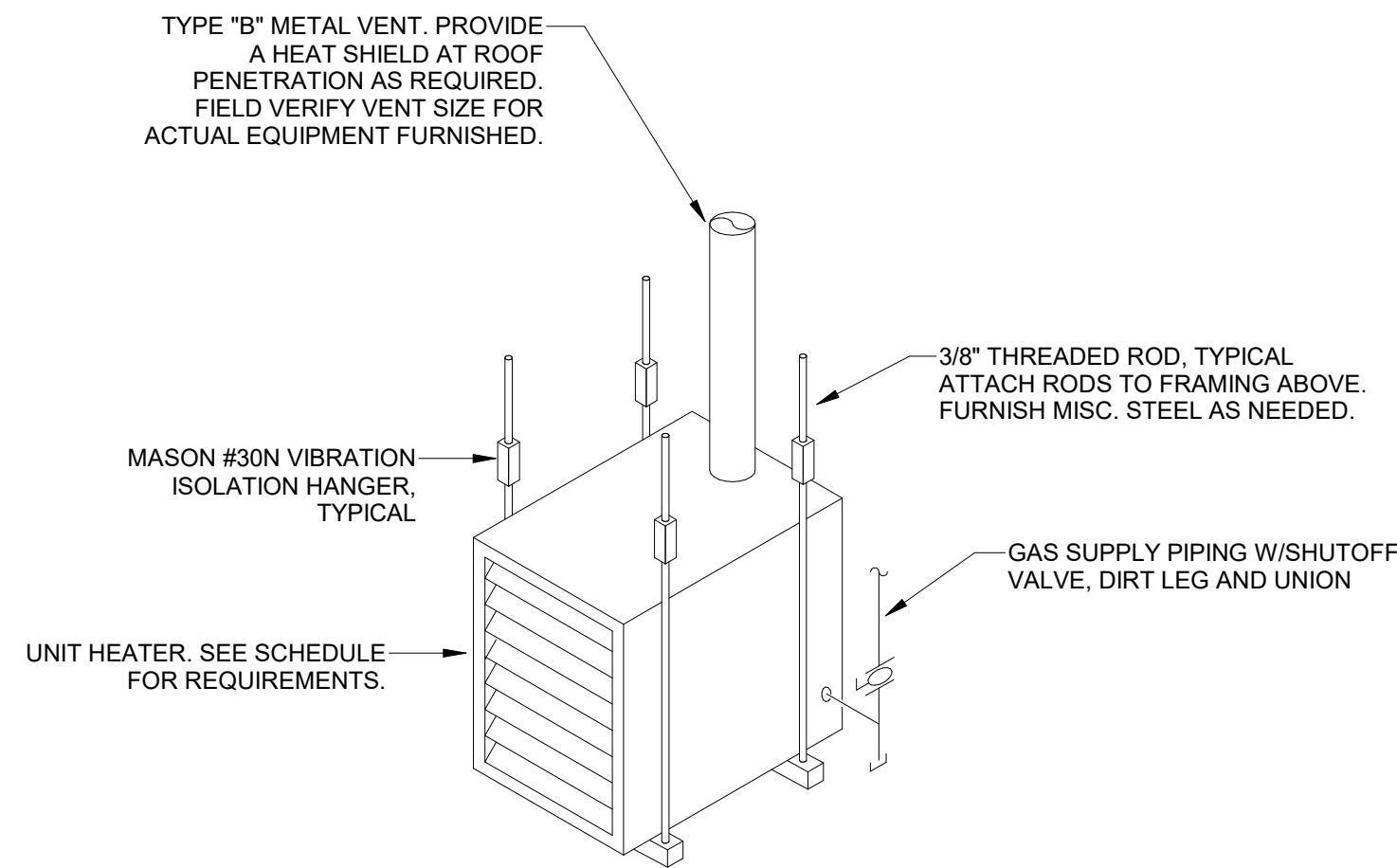
10
M2-0
ROOF MOUNTED GREASE EXHAUST FAN DETAIL (FLAT ROOF)
NOT TO SCALE



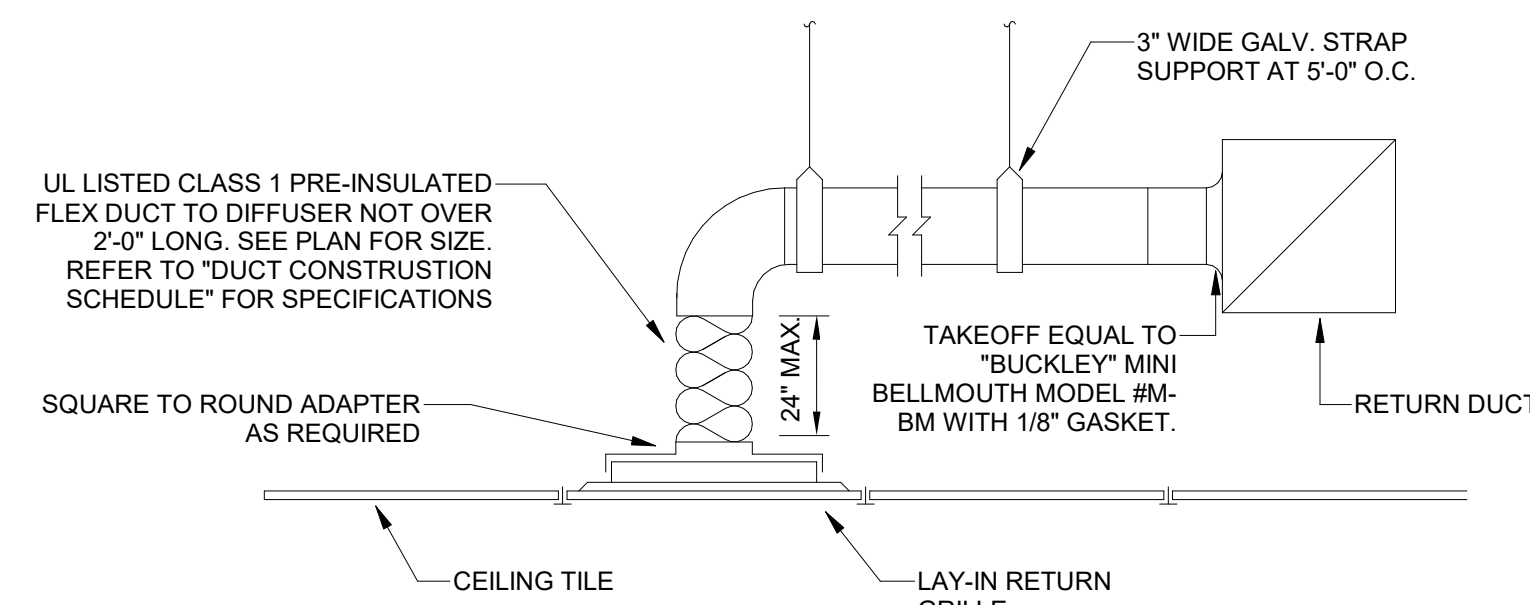
9
M2-0
WALL MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



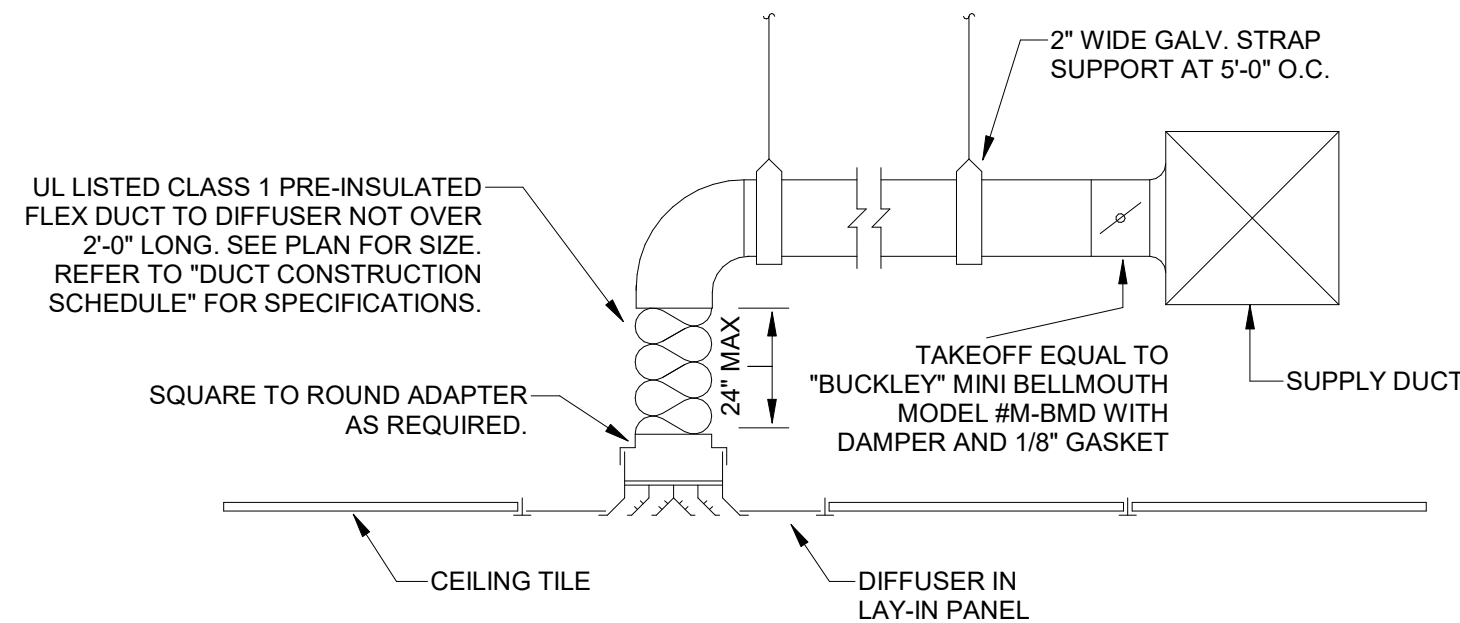
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M2-0
ROOF VENT DETAIL
NOT TO SCALE



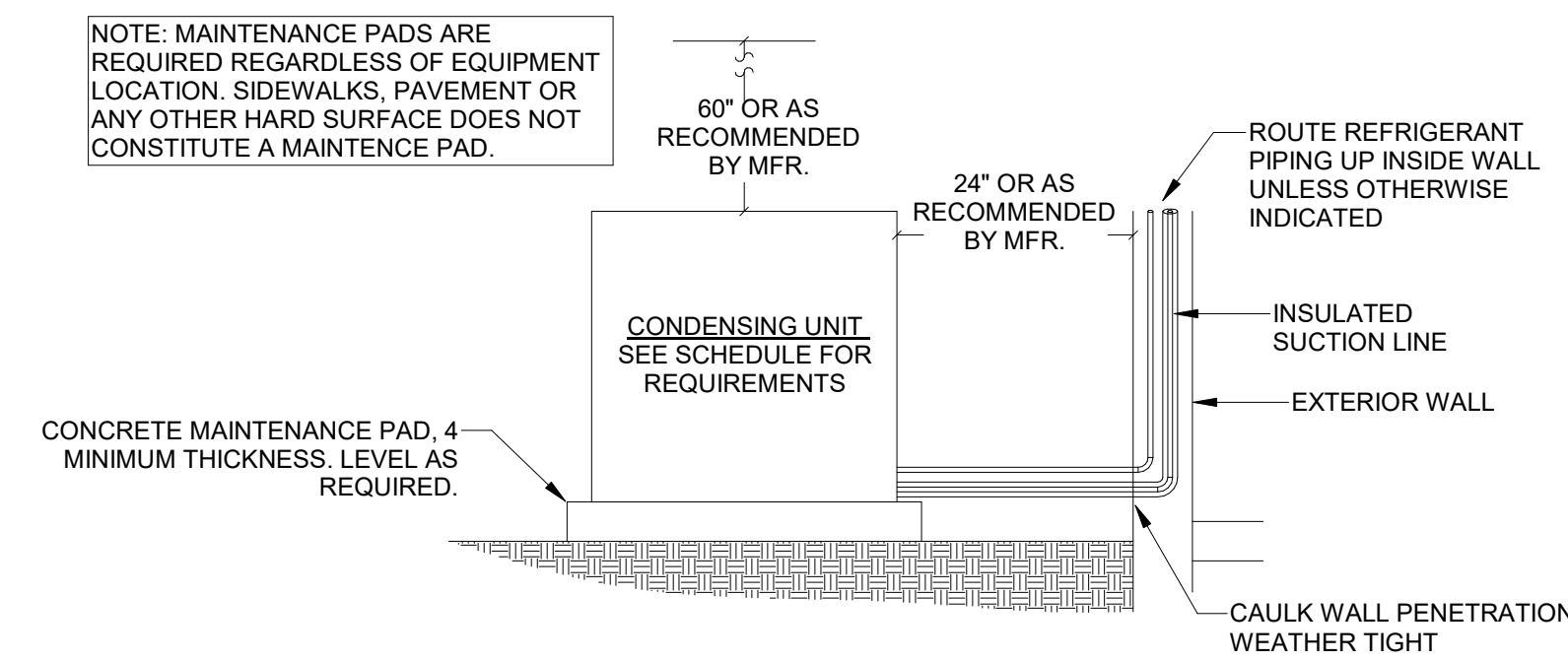
7
M2-0
UNIT HEATER DETAIL (SUSPENDED W/ VENT)
NOT TO SCALE



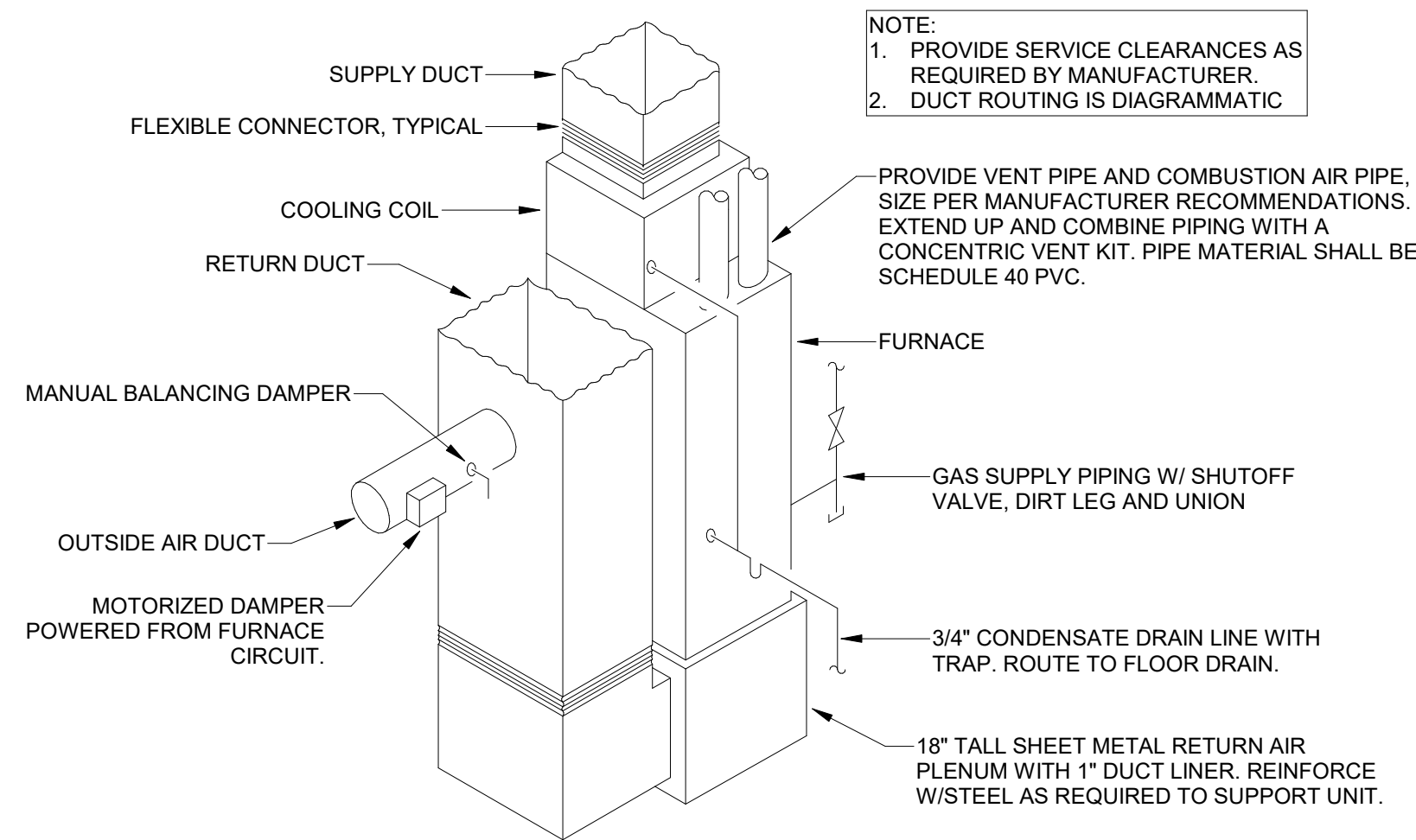
6
M2-0
RETURN GRILLE DETAIL
NOT TO SCALE



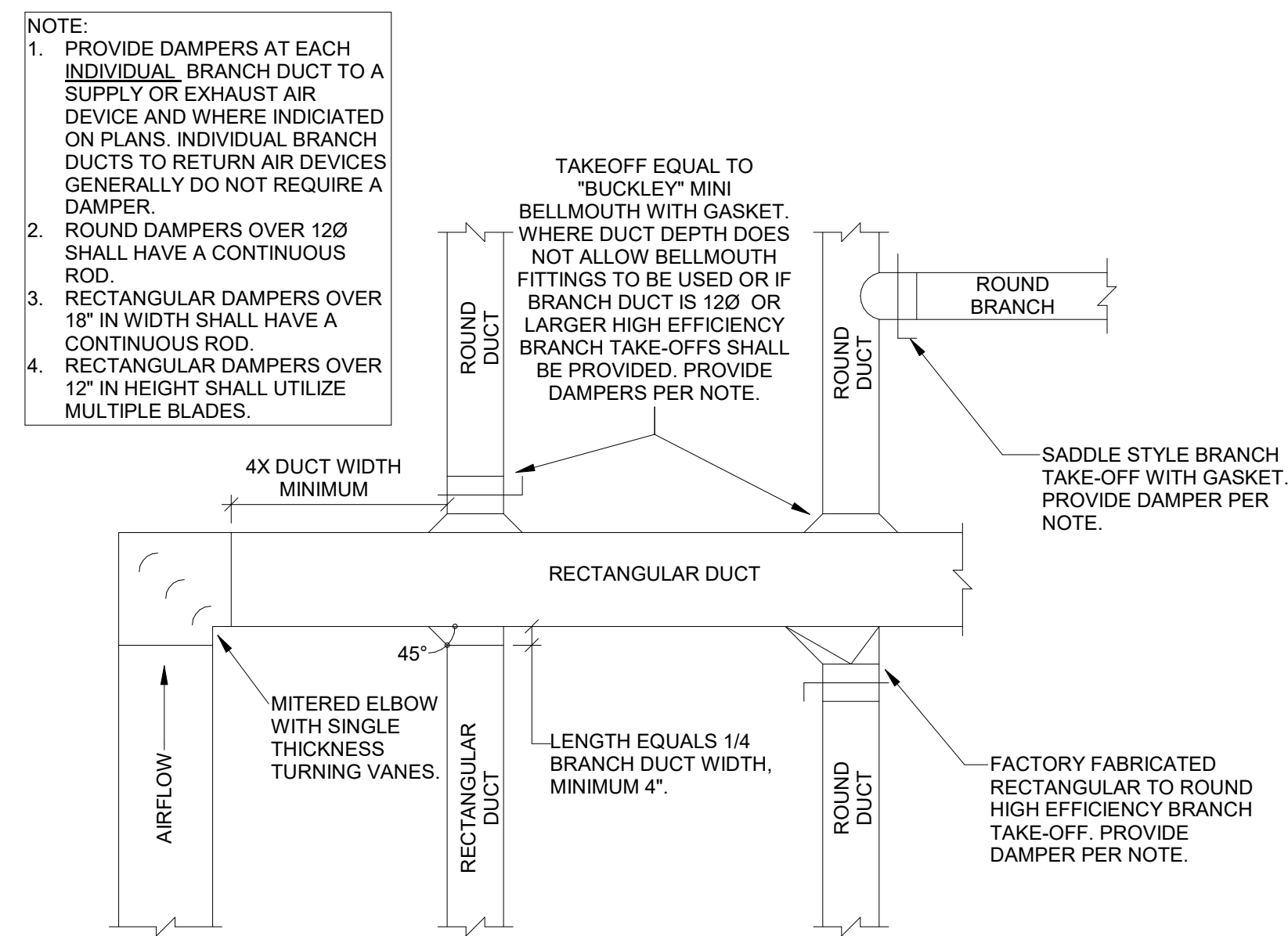
5
M2-0
SUPPLY DIFFUSER DETAIL
NOT TO SCALE



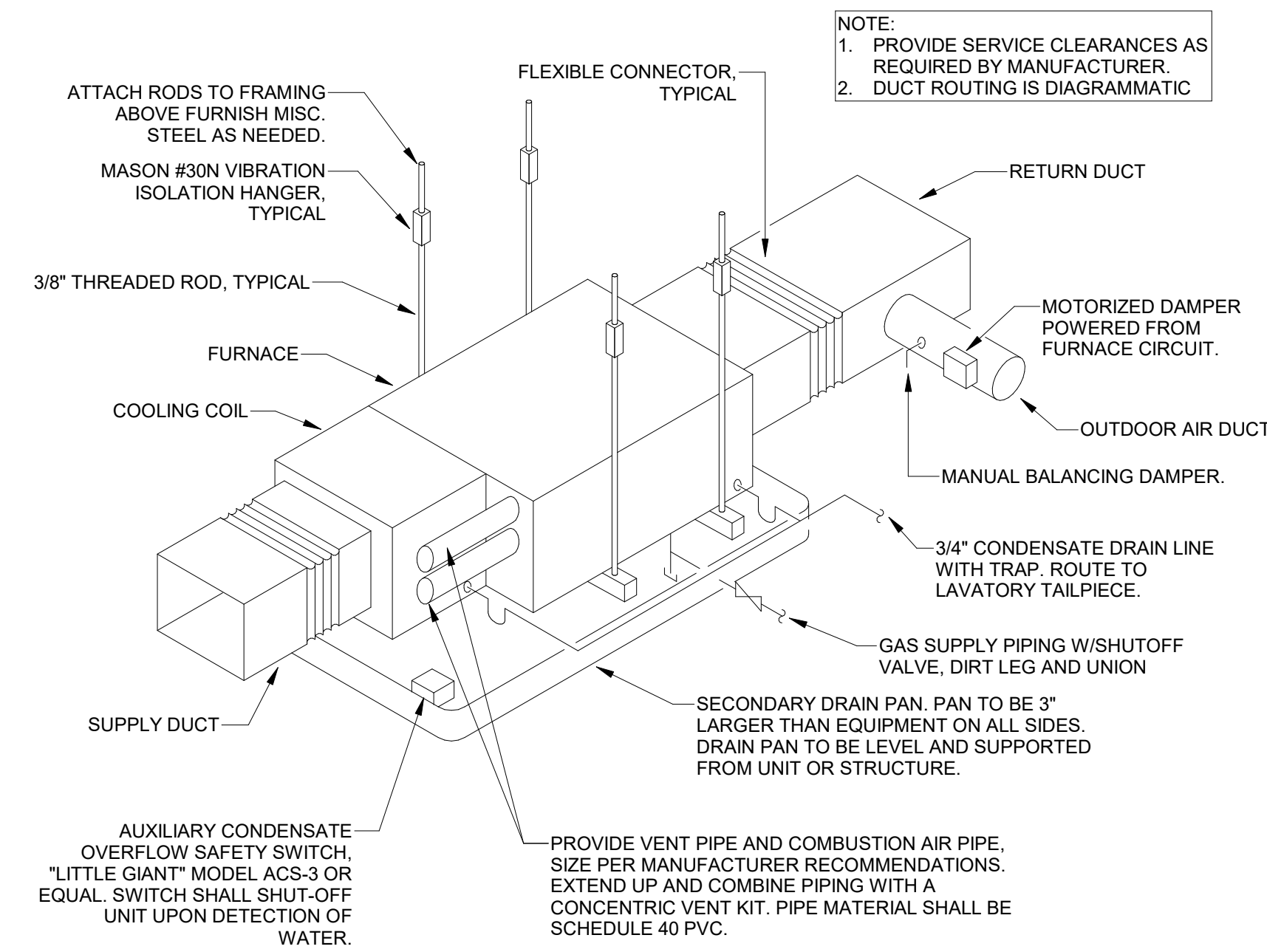
4
M2-0
CONDENSING UNIT DETAIL (GROUND)
NOT TO SCALE



3
M2-0
UPFLOW CONDENSING GAS FURNACE DETAIL
NOT TO SCALE



2
M2-0
DUCTWORK CONSTRUCTION DETAIL
NOT TO SCALE



1
M2-0
HORIZONTAL CONDENSING GAS FURNACE DETAIL
NOT TO SCALE

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2008 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE COMPLETE SET OF PLANS FOR WORK PERTAINING TO HIS DISCIPLINE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
- THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE WORK OF OTHER SUBCONTRACTORS OF THE PROJECT. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL DEVICES REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATIONS.
- ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCING ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
- THE HVAC SYSTEM SHALL BE BALANCED BY THE CONTRACTOR TO WITHIN 10% OF THE DESIGN FLOW RATES AND A TEST REPORT SHALL BE SUBMITTED TO THE ENGINEER'S OFFICE. A CERTIFIED TEST & BALANCE IS NOT REQUIRED, HOWEVER, THE TEST PROCEDURES AND RESULTING REPORT SHALL FOLLOW NEBB STANDARDS.
- THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE HVAC EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING DURING PERIOD OF CONSTRUCTION. VERIFY ALL POSSIBLE SCHEDULING CONFLICTS WITH THE OWNER'S REPRESENTATIVE.
- ALL HVAC EQUIPMENT LOCATED ON THE ROOF TO BE INSTALLED A MINIMUM OF 10'-0" FROM THE EDGE OF THE ROOF.



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REVISION SCHEDULE

PUBLIC WORKS FACILITY

PROJECT DESCRIPTION:

PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
CHECKED BY: CRD/KNC

PROJECT NUMBER:
23-777

DATE:
2023.06.29

HVAC DETAILS



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MISSOURI COA: E-2014013301

SHEET NUMBER:

M2-0

FAN SCHEDULE

GENERAL NOTES										ABBREVIATIONS				
1. APPROVED MANUFACTURERS: COOK, GREENHECK, ACME, CARNES										BD:	BACKDRAFT DAMPER			
										DS:	FACTORY INSTALLED DISCONNECT SWITCH			
										FS:	FACTORY INSTALLED SHUTTER			
										IG:	INLET GUARD			
										SC:	SOLID STATE SPEED CONTROLLER			
										VK:	VIBRATION ISOLATION KIT			
										WH:	WEATHER HOOD			
										HK:	HINGE KIT			
										VRC:	VENTED FACTORY ROOF CURB			
										GC:	GREASE CUP			
MARK	DESCRIPTION	MFR.	MODEL #	AIRFLOW (CFM)	ESP (IN. W.C.)	RPM (MAX)	SONES	DRIVE TYPE	MOTOR HP/(W)	ELEC. (V/PH)	WEIGHT (LB.)	CONTROL	ACCESSORIES	REMARKS
EF-1	INLINE EXHAUST FAN	COOK	GN-422	250	0.50	1,500	4.5	DIRECT	(174)	120 / 1	--	LIGHTS	BD,VS,VK,SC	--
EF-2	WALL MOUNTED EXHAUST FAN	COOK	48XLPH	13,500	0.25	650	24	BELT	3.0	208 / 3	600	SWITCH	FS,IG,WH	--
EF-3	ROOF MTD. GREASE EXHAUST FAN	COOK	100ACRUB	500	0.35	2,000	6.8	BELT	1/6	120 / 1	44	SWITCH	DS,HK,VRC,GC	1

AIR DEVICE SCHEDULE

AIR DEVICE SCHEDULE									
GENERAL NOTES					ABBREVIATIONS				
1. APPROVED MANUFACTURERS: KRUEGER, ANEMOSTAT, PRICE, TITUS, CARNES, TUTTLE AND BAILEY, NAILOR					BD35: 35" BLADE DEFLECTION				
2. PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED.					BG: 15" BLADE DEFLECTION, 1/2" BAR SPACING, 7/32" BLADE THICKNESS.				
3. LAY-IN DIFFUSER NECK SIZES SHALL BE AS SHOWN ON THE PLANS. DIFFUSER PANEL SIZE SHALL BE 24x24 UNLESS OTHERWISE NOTED.					HB: 1/2" BLADE SPACING.				
4. LAY-IN DIFFUSER THROWS ARE TO BE AS SHOWN ON THE PLANS. REFER TO THE HVAC LEGEND FOR DIFFUSER THROW DESIGNATIONS.					IS: HORIZONTAL FRONT BLADES				
5. DAMPERS SHALL BE THE OPPOSED BLADE TYPE.					VB: INSECT SCREEN VERTICAL BLADES				
6. GRILLE/DIFFUSER DAMPERS ARE INTENDED FOR USE BY THE TENANT AND ARE NOT TO BE USED FOR INITIAL BALANCING.									
MARK	DESCRIPTION	MFR.	MODEL #	FUNCTION	MOUNTING	DAMPER	MATERIAL	FINISH	REMARKS
SLL	LOUVERED RECT. DIFFUSER-SQUARE NECK	KRUEGER	5SH	SUPPLY	LAY-IN	YES	ALUMINUM	WHITE	--
SL2	LOUVERED RECT. DIFFUSER-SQUARE NECK	KRUEGER	5SH	SUPPLY	LAY-IN	YES	ALUMINUM	WHITE	2-WAY
RLP	PREFORATED GRILLE-SQUARE NECK	KRUEGER	6490	RETURN	LAY-IN	NO	STEEL	WHITE	--
ELP	PREFORATED GRILLE-SQUARE NECK	KRUEGER	6490	EXHAUST	LAY-IN	YES	STEEL	WHITE	--

FURNACE/COOLING COIL SCHEDULE

FURNACE/COOLING COIL SCHEDULE										
GENERAL NOTES						ABBREVIATIONS				
1. APPROVED MANUFACTURER/BRAND NAME: YORK, JCI, CARRIER, LENNOX						CC: CASED COOLING COIL SAME MANUFACTURER AS FURNACE				
2. UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS.						CK: CONCENTRIC VENT KIT				
3. HEATING EFFICIENCY SHALL BE 95% AFUE MINIMUM UNLESS OTHERWISE NOTED.						FR: 1" FILTER RACK				
4. SPECIFIED HEATING FUEL: NATURAL GAS										
5. FURNACE MARK NUMBERS ARE TO BE MATCHED TO CONDENSING UNITS WITH THE SAME MARK NUMBER UNLESS OTHERWISE NOTED. (EXAMPLE: F-1 IS MATCHED TO CU-1)										
6. MOTOR SHALL BE PERMANENT-SPLIT CAPACITOR (PSC) TYPE.										
MARK	MFR.	MODEL #	NOMINAL COOLING CAPACITY (BTU/H)	HEATING INPUT (BTU/H)	SUPPLY FAN			OUTSIDE AIRFLOW (CFM)	ACCESSORIES	REMARKS
					AIRFLOW	ESP (IN. WC.)	MOTOR HP			
F-1	YORK	TG9S040	24,000	100,000	800	0.5	1/3	160	CC,CK,FR	--
F-2	YORK	TG9S080	42,000	120,000	1,400	0.5	3/4	200	CC,CK,FR	--
F-3	YORK	TG9S080	42,000	120,000	1,400	0.5	3/4	200	CC,CK,FR	--

UNIT HEATER SCHEDULE

GENERAL NOTES										TS: SINGLE STAGE THERMOSTAT WITH INSULATED BASE AND TAMPER RESISTANT COVER.				
1. APPROVED MANUFACTURERS: REZNOR, MODINE, STERLING										VF: COMBUSTION AIR/VENT KIT (ROOF) (INCLUDE CONCENTRIC ADAPTER)				
2. HEATING EFFICIENCY SHALL BE 80% AFUE MINIMUM UNLESS OTHERWISE NOTED.														
3. SPECIFIED HEATING FUEL: NATURAL GAS														
MARK	MFR.	MODEL #	HEATING INPUT (BTU/H)	SUPPLY AIRFLOW (CFM)	ELECTRICAL		APPROX. WEIGHT (LB.)	ACC.	REMARKS					
UH-1	REZNOR	UDAS-150	150,000	1,921	VOLTS/PHASE	HP	173	TS,VF	--					
UH-2	REZNOR	UDAS-150	150,000	1,921	120/1	1/6	173	TS,VF	--					

CONDENSING UNIT SCHEDULE

CONDENSING UNIT SCHEDULE												
GENERAL NOTES					ABBREVIATIONS							
1. APPROVED MANUFACTURERS: YORK, JCI, CARRIER, LENNOX					TS: 7-DAY PROGRAMMABLE THERMOSTAT							
2. UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS.					SA: START ASSIST KIT							
3. UNIT EFFICIENCY SHALL BE 13 SEER UNLESS OTHERWISE NOTED.												
4. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. INSULATE SUCTION LINES WITH 1/2" ARMAFLEX.												
MARK	MFR.	MODEL	NOMINAL COOLING CAPACITY (BTU/H)	ELECTICAL						ACCESSORIES		
				VOLTS / PHASE						FLA	MOCP	
CU-1	YORK	YCJD24	24,000	208 / 1						10.1	15 A	TS,SA
CU-2	YORK	YHJD42	42,000	208 / 1						17.5	35 A	TS,SA
CU-3	YORK	YHJD42	42,000	208 / 1	17.5	35 A	TS,SA					

DUCT CONSTRUCTION SCHEDULE

DUCT CONSTRUCTION SCHEDULE				
RECTANGULAR DUCT CONSTRUCTION MINIMUM METAL GAUGES				
MAXIMUM SIDE	GALVANIZED STEEL	PERIMETER HALF	HANGER STRAP	
THROUGH 12" 13" THROUGH 30"	26 GAUGE 24 GAUGE	THROUGH 12" 13" THROUGH 30"	THROUGH 12" 13" THROUGH 30"	
ROUND DUCT CONSTRUCTION MINIMUM METAL GAUGES				
DIAMETER	LONGITUDINAL SEAM	SPIRAL SEAM	FITTINGS	HANGER STRAP
THROUGH 12" 13" THROUGH 30"	26 GAUGE 24 GAUGE	28 GAUGE 26 GAUGE	26 GAUGE 24 GAUGE	1"X22 GAUGE 1"X18 GAUGE
DUCT HANGER CONSTRUCTION AND SPACING REQUIREMENTS				
<div><div></div><div></div><div></div></div>				
HANGER STRAPS FASTEN TO STRUCTURE MAXIMUM 10' CENTERS				
RECTANGULAR DUCTWORK				
CONCEALED INSIDE THE CONDITIONED SPACE (ABOVE CEILING, IN CHASE, PLENUM, ETC.) SUPPLY & OUTDOOR AIR: WRAP DUCTWORK WITH 1.5" THICK, 0.75 LB/CU FT DENSITY DUCT WRAP (R=5.1) EQUAL TO OWENS CORNING "SOFT" DUCT WRAP.				
RETURN:	NO INSULATION IS REQUIRED UNLESS OTHERWISE NOTED.			
ROUND DUCTWORK				
CONCEALED INSIDE THE CONDITIONED SPACE (ABOVE CEILING, IN CHASE, PLENUM, ETC.) SUPPLY & OUTDOOR AIR: WRAP DUCTWORK WITH 1.5" THICK, 0.75 LB/CU FT DENSITY DUCT WRAP (R=5.1) EQUAL TO OWENS CORNING "SOFT" DUCT WRAP. FLEXIBLE DUCT SHALL HAVE AN EQUAL OF GREATER R-VALUE.				
RETURN:	DUCT SHALL BE SNAPLOCK PIPE. NO INSULATION IS REQUIRED.			
GENERAL REQUIREMENTS				
<div>1. CONSTRUCTION: ALL DUCTWORK AND HANGERS SHALL BE GABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT DIMENSIONS SHOWN ON THE PLANS ARE THE INSIDE CLEAR DIMENSIONS, UNLESS INDICATED OTHERWISE, ALL DUCTWORK SHALL BE GALVANIZED STEEL.</div> <div>2. SEALANT: ALL DUCT JOINTS AND SEAMS SHALL BE SEALED WITH A WATER-BASED BRUSH ON DUCT SEALER EQUAL TO UNITED MCGILL DUCT SEALER.</div> <div>3. TAPE: TAPE SHALL BE UL LISTED ALUMINUM DUCT TAPE.</div> <div>4. FLEXIBLE DUCTWORK: DUCT SHALL BE UL LISTED CLASS 1 PRE-INSULATED FLEX DUCT. FLEXIBLE DUCTWORK SHALL BE CONSTRUCTED WITH AN ACOUSTICAL TRANSPARENT OPE FABRIC SUPPORTED BY A GALVANIZED STEEL MECHANICALLY LOCKED HELIX. WIRE HELIX TYPE CORE SUPPORT NOT ACCEPTABLE. INSULATION SHALL BE COVERED WITH A REINFORCED ALUMINUM PIGMENTED VAPOR BARRIER. FLEXIBLE DUCT TO BE "FLEXMASTER USA" TYPE 8M ONLY. OR SUBMIT A SAMPLE TO THE ENGINEER FOR AN ALTERNATE APPROVED EQUAL. FLEXIBLE DUCT SHALL BE USED FOR FINAL CONNECTION TO AIR DEVICE AND SHALL NOT EXCEED 6'-0" IN LENGTH.</div> <div>5. FITTINGS: INSTALL TURNING VANES IN ALL RECTANGULAR ELBOWS GREATER THAN 45° ALL BRANCH DUCTS SHALL HAVE A 45° ENTRY AT THE MAIN TRUNK DUCT.</div> <div>6. TAKE-OFF FITTINGS: BRANCH DUCT TAKE-OFF FITTINGS SHALL BE MINIMUM 26 GAUGE GALVANIZED STEEL WITH FLANGE CONNECTOR AND ADHESIVE NEOPRENE GASKET. FLANGE SHALL BE PRE-DRILLED FOR SECURING TO DUCT WITH SCREWS. BRANCH DUCT TAKE-OFF FITTINGS FOR SUPPLY AND EXHAUST DIFFUSERS/REGISTERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER W/LOCKING QUADRANT. DAMPER NOT REQUIRED ON RETURN AIR. TAKE-OFF FITTINGS TO BE "BUCKLEY" MODEL ATM & ATMD OR EQUAL. WHERE DUCT HEIGHT REQUIRES A RECTANGULAR TO ROUND TAKE-OFF, UTILIZE A "BUCKLEY" MODEL 3300 & 3300D OR EQUAL.</div> <div>7. EXHAUST DUCTWORK DOES NOT REQUIRE INSULATION.</div> <div>8. SOUND ATTENUATION: RETURN AIR BOOTS OPEN TO THE SPACE REQUIRE DUCT LINER FOR SOUND ATTNUATION. REFER TO PLANS FOR RETURN AIR BOOT LOCATIONS.</div>				



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06/28/23

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REVISION SCHEDULE

PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
CHECKED BY: CRD/KNC

PROJECT NUMBER:

23-777

DATE:
2023.06.29

HVAC
SCHEDULES

SHEET NUMBER:

M3-0



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MISSOURI COA: E-2014013301

GENERAL NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2006 EDITION OF THE INTERNATIONAL PLUMBING CODE.
2. DRAWING IS DIAGRAMMATIC AND IS NOT TO BE SCALED. REFER TO ARCHITECTURAL PLANS AND FIELD CONDITIONS FOR DIMENSIONS.
3. PLUMBING FIXTURES ARE TO BE FURNISHED COMPLETE WITH ALL NECESSARY STOPS, TRAPS, TAILPIECES, TRIM, ETC. PROVIDE WATER HAMMER ARRESTERS ON THE SUPPLY PIPING (OW & HW) WHERE INDICATED ON THE PLAN. ARRESTERS SHALL BE SIOUX CHIEF MODEL 652-A OR EQUAL. INSTALL ARRESTERS PER THE MANUFACTURER'S RECOMMENDATIONS. THE ARRESTERS SHALL BE RATED FOR INSTALLATION IN CONCEALED LOCATIONS. CAPPED AIR CHAMBERS ARE NOT ALLOWED.
4. ALL HOT AND COLD WATER SUPPLY PIPING CONNECTION TO FIXTURES ARE TO BE 1/2", UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND SUBCONTRACTORS IN LAYING OUT AND INSTALLING HIS WORK. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
7. ALL FLOOR DRAINS, FLOOR SINKS AND INTERIOR CLEANOUTS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR COVERING. FLOOR SHALL NOT BE SLOPED TO DRAIN UNLESS SPECIFICALLY INDICATED ON THE PLANS.



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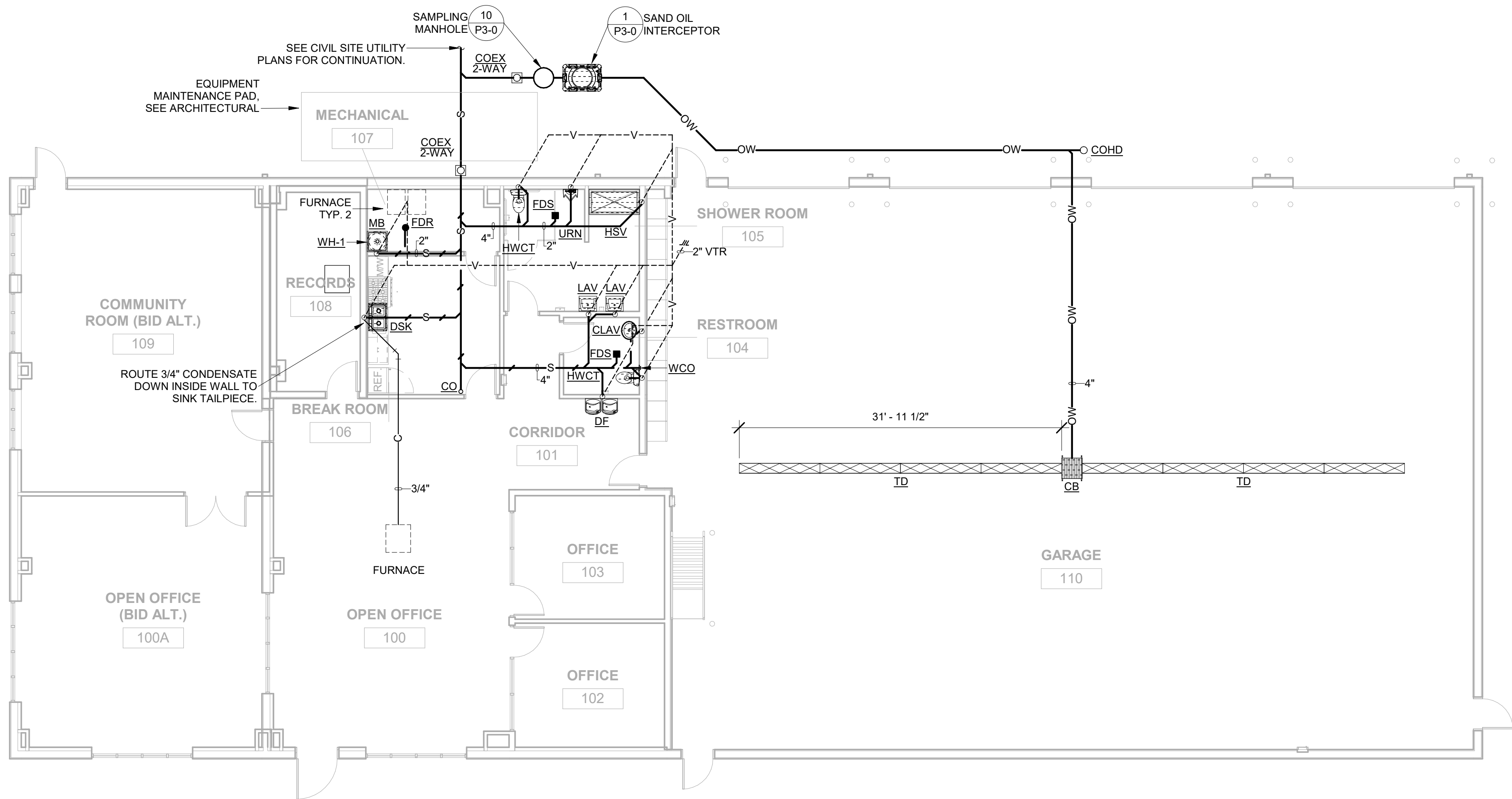
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WASTE & VENT PIPING PLAN

SCALE 1/8" = 1'-0"



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KEY NOTES

- INDICATED BY SYMBOLS ① ② ETC.
- 1 CW PIPING DOWN IN WALL TO 12" ABOVE FINISHED FLOOR. PROVIDE QUARTER TURN SHUT-OFF VALVE 48" ABOVE FINISHED FLOOR.
 - 2 PROVIDE REGULATOR FOR 468 MBH OF NATURAL GAS AFTER BRANCH TO GENERATOR. SET TO 7" W.C. CONTINUE TO ROUTE 1-1/2" GAS PIPING UP EXTERIOR WALL TO CEILING SPACE. PAINT TO MATCH EXTERIOR.



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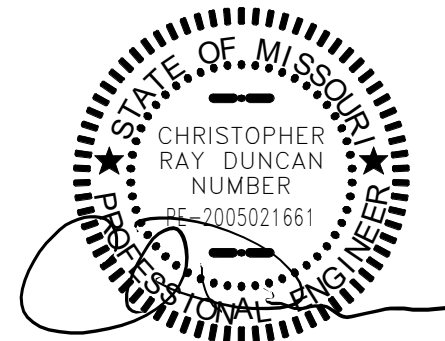
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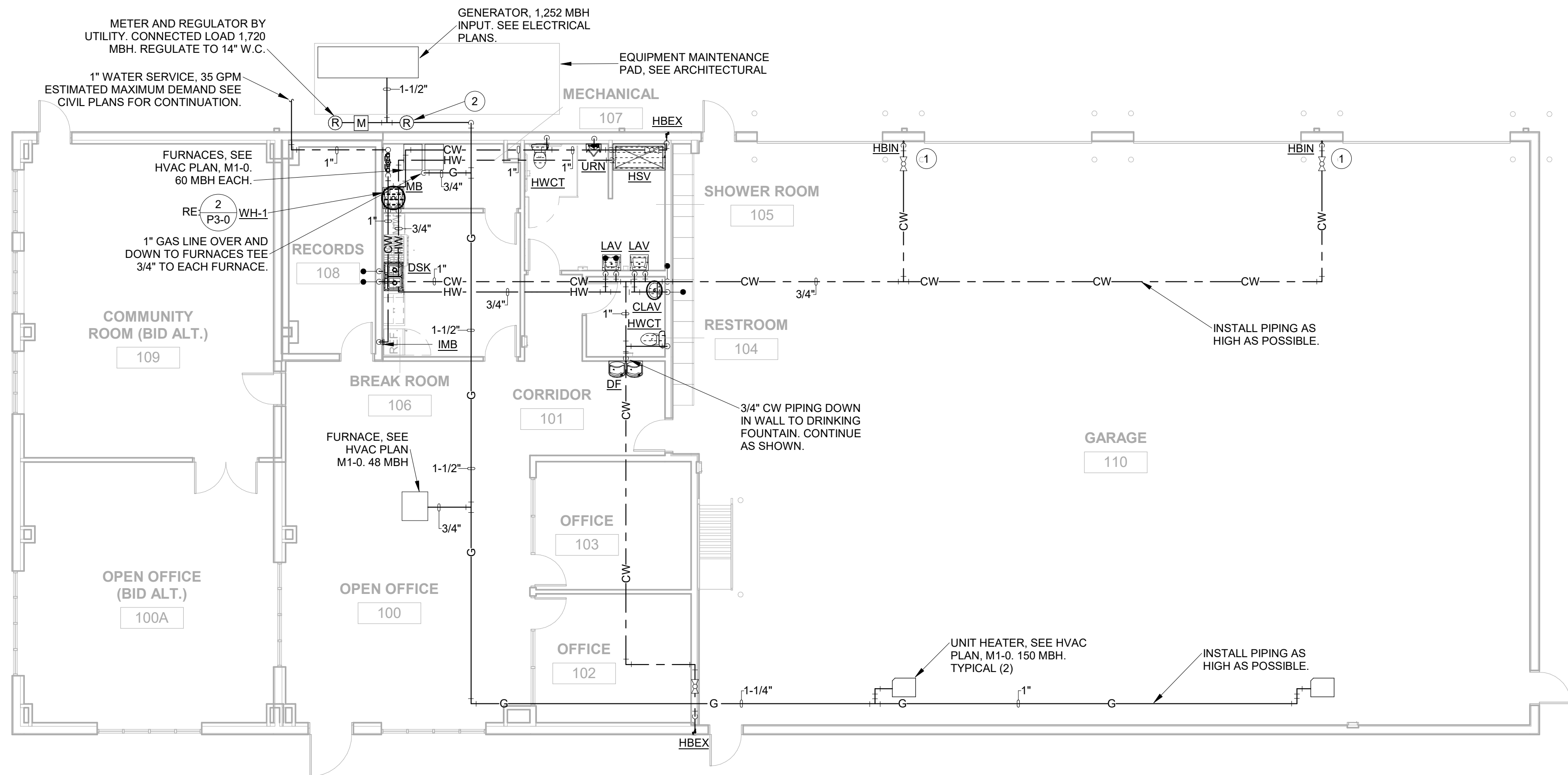
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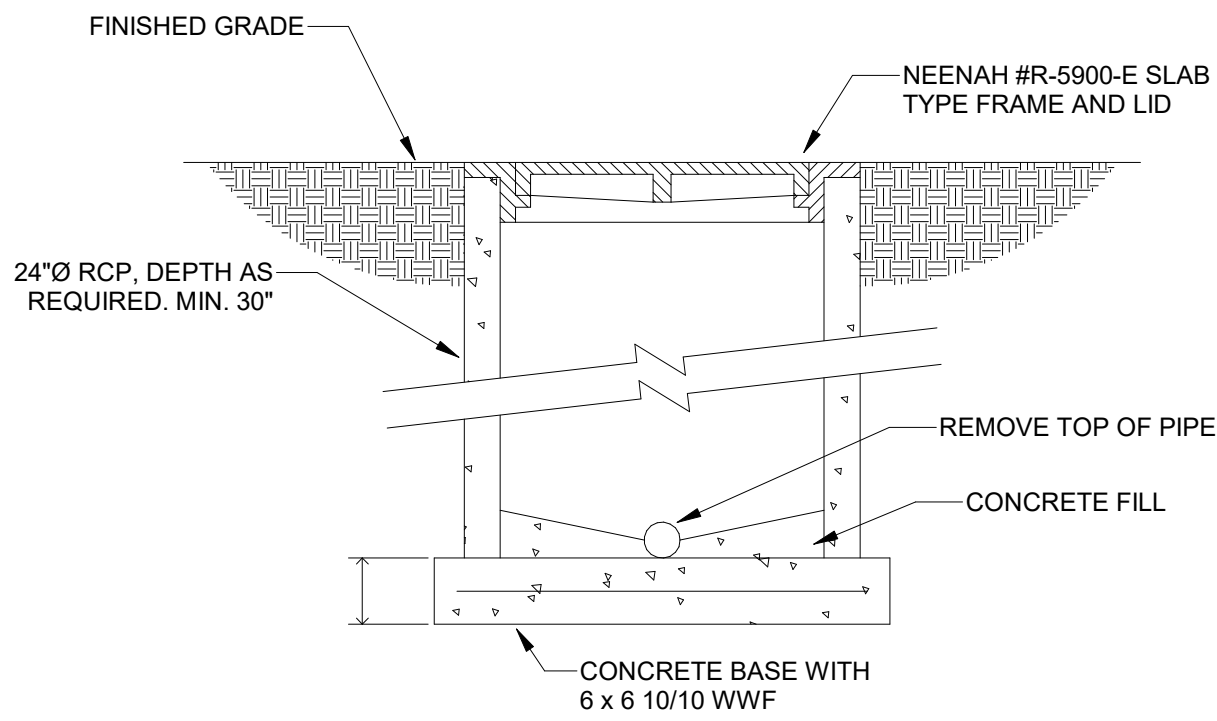
SUPPLY PIPING PLAN

SCALE 1/8" = 1'-0"

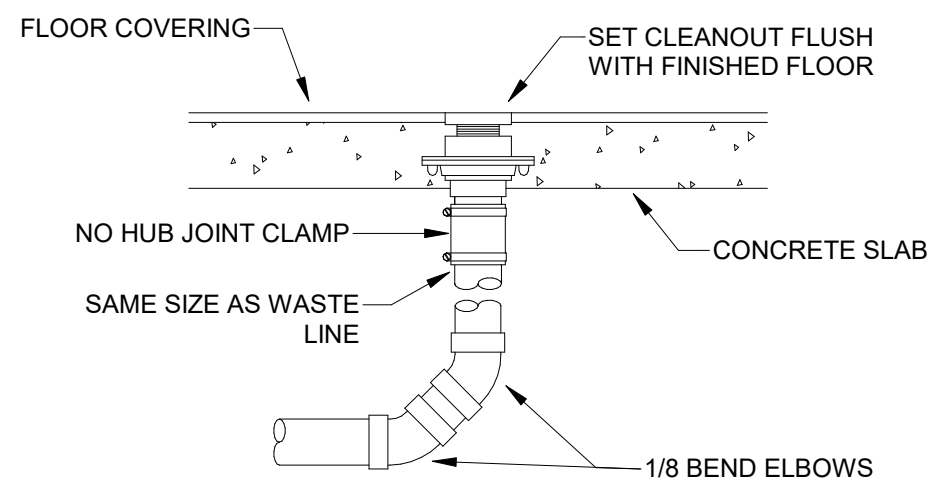


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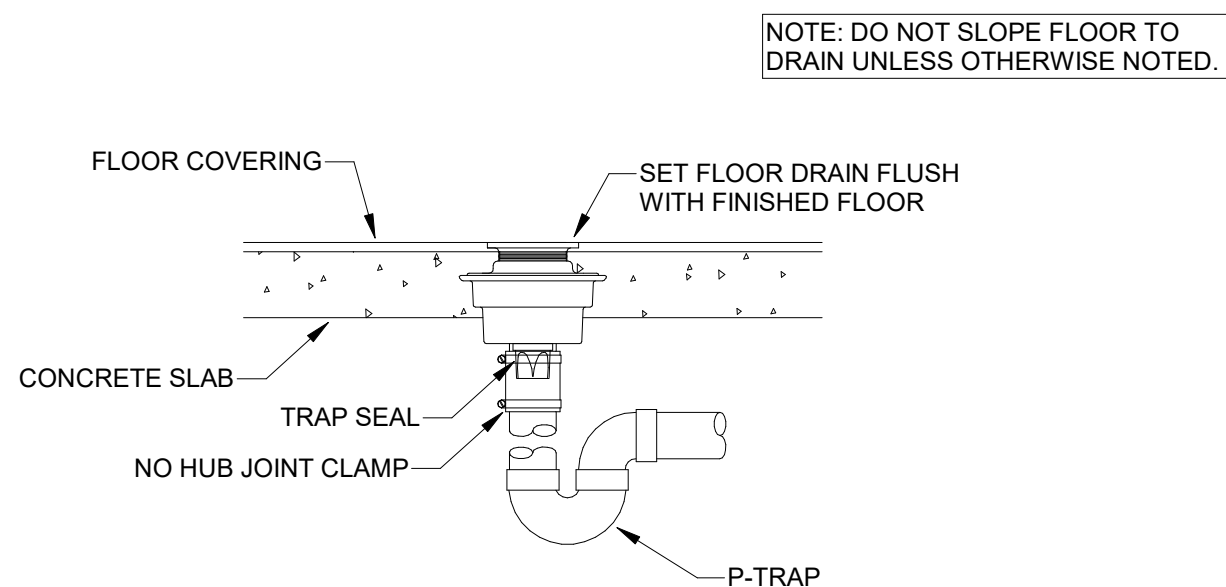
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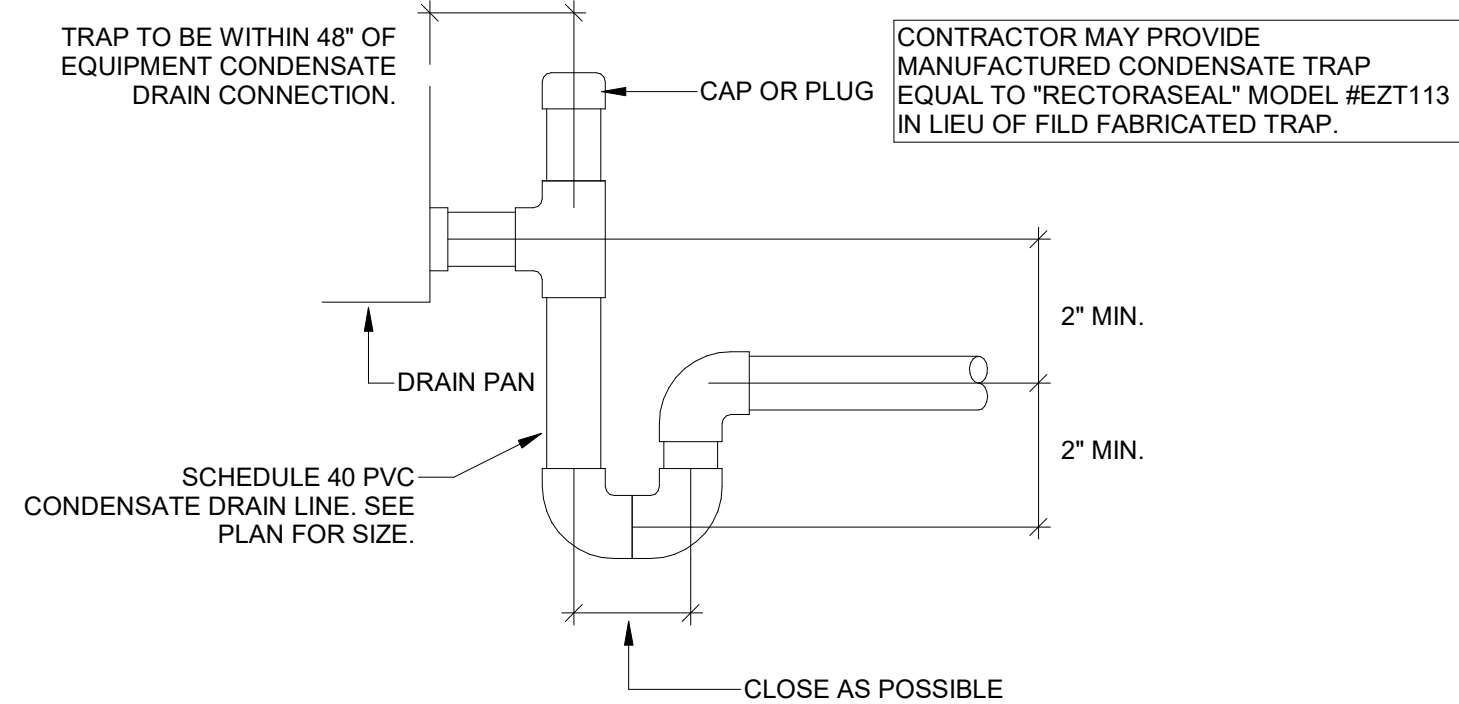
10
P3-0
SAMPLING MANHOLE DETAIL
NOT TO SCALE



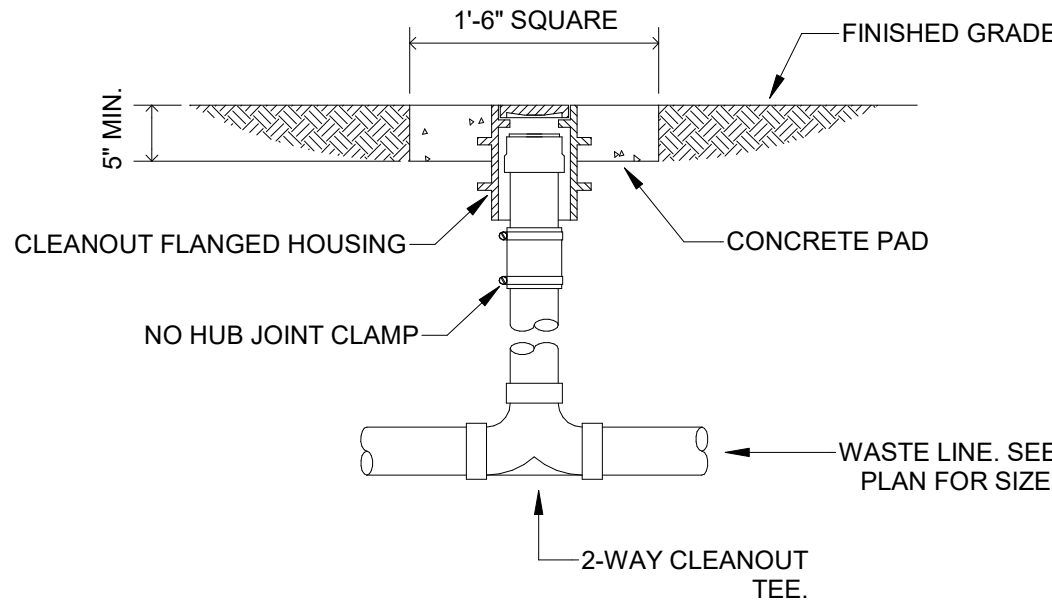
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P3-0
INTERIOR CLEANOUT DETAIL
NOT TO SCALE



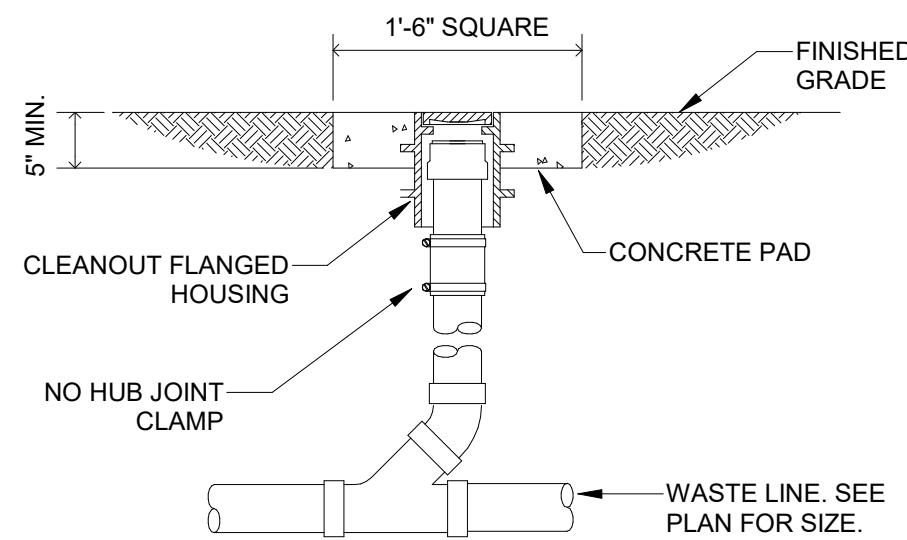
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P3-0
FLOOR DRAIN DETAIL
NOT TO SCALE



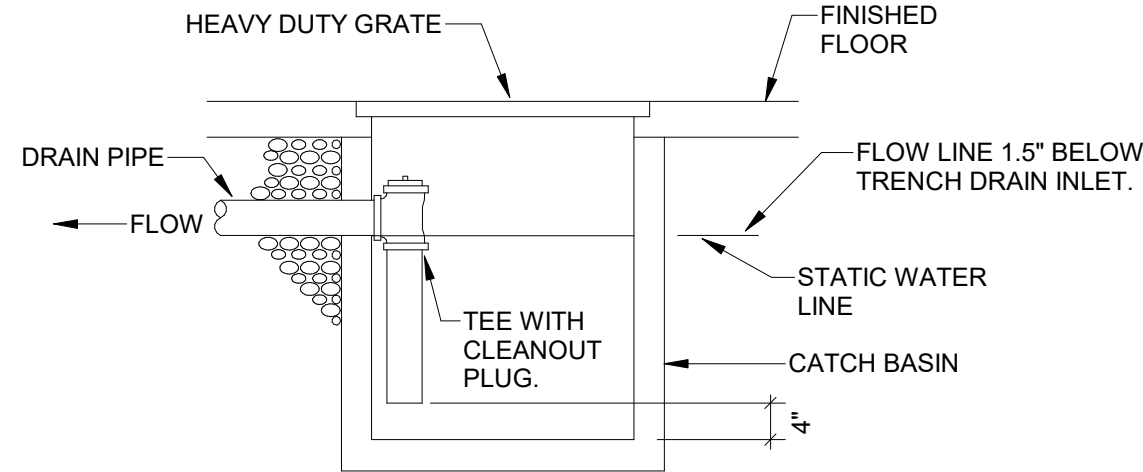
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P3-0
CONDENSATE TRAP DETAIL
NOT TO SCALE



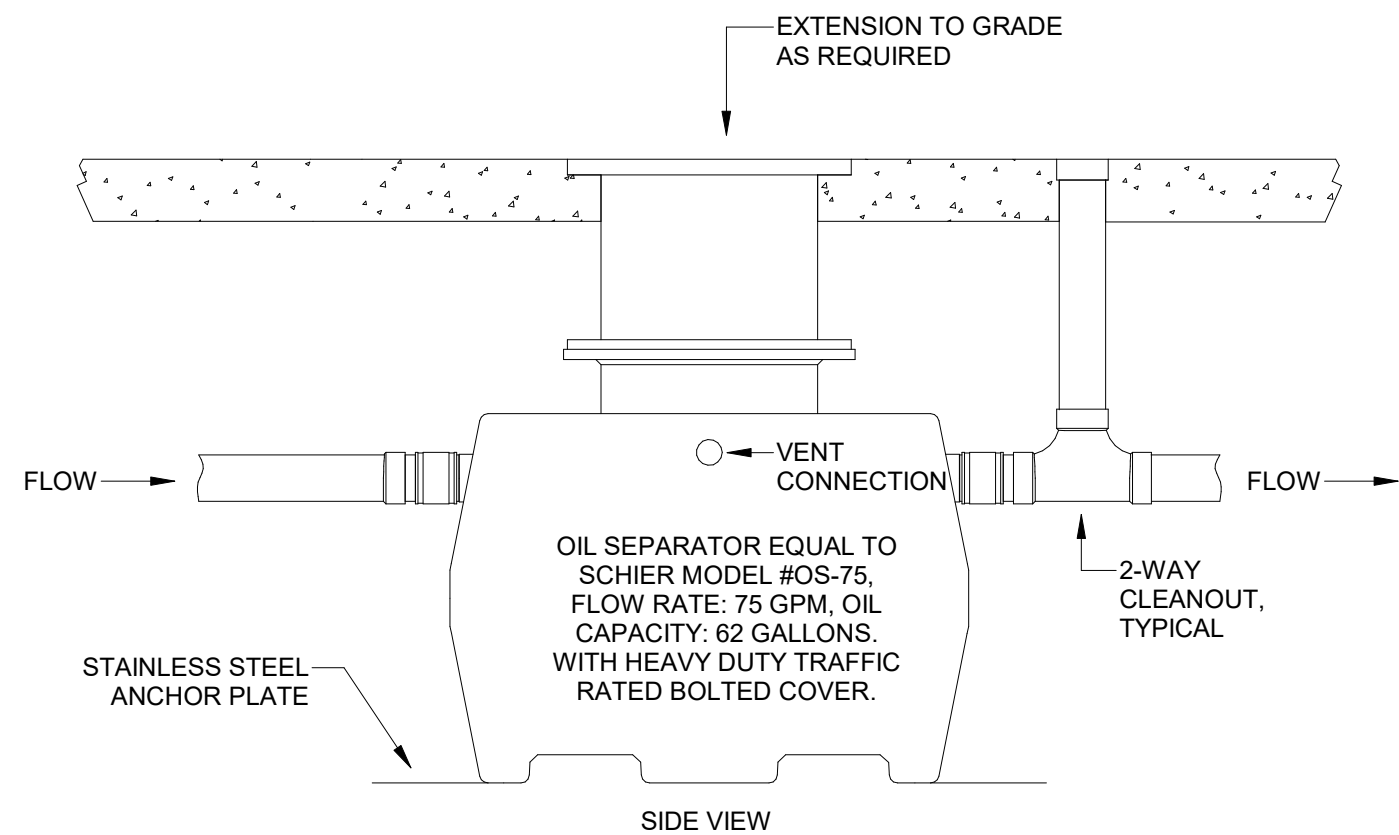
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P3-0
2-WAY OUTDOOR CLEANOUT DETAIL
NOT TO SCALE



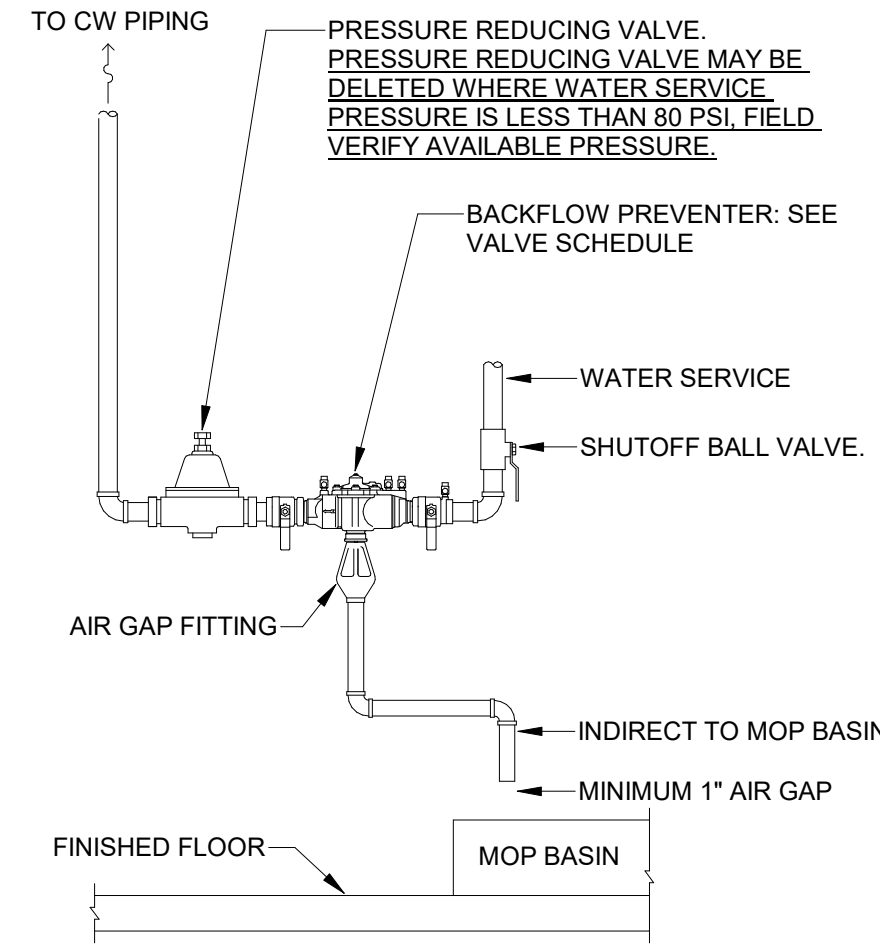
5
P3-0
OUTDOOR CLEANOUT DETAIL
NOT TO SCALE



4
P3-0
CATCH BASIN DETAIL
NOT TO SCALE

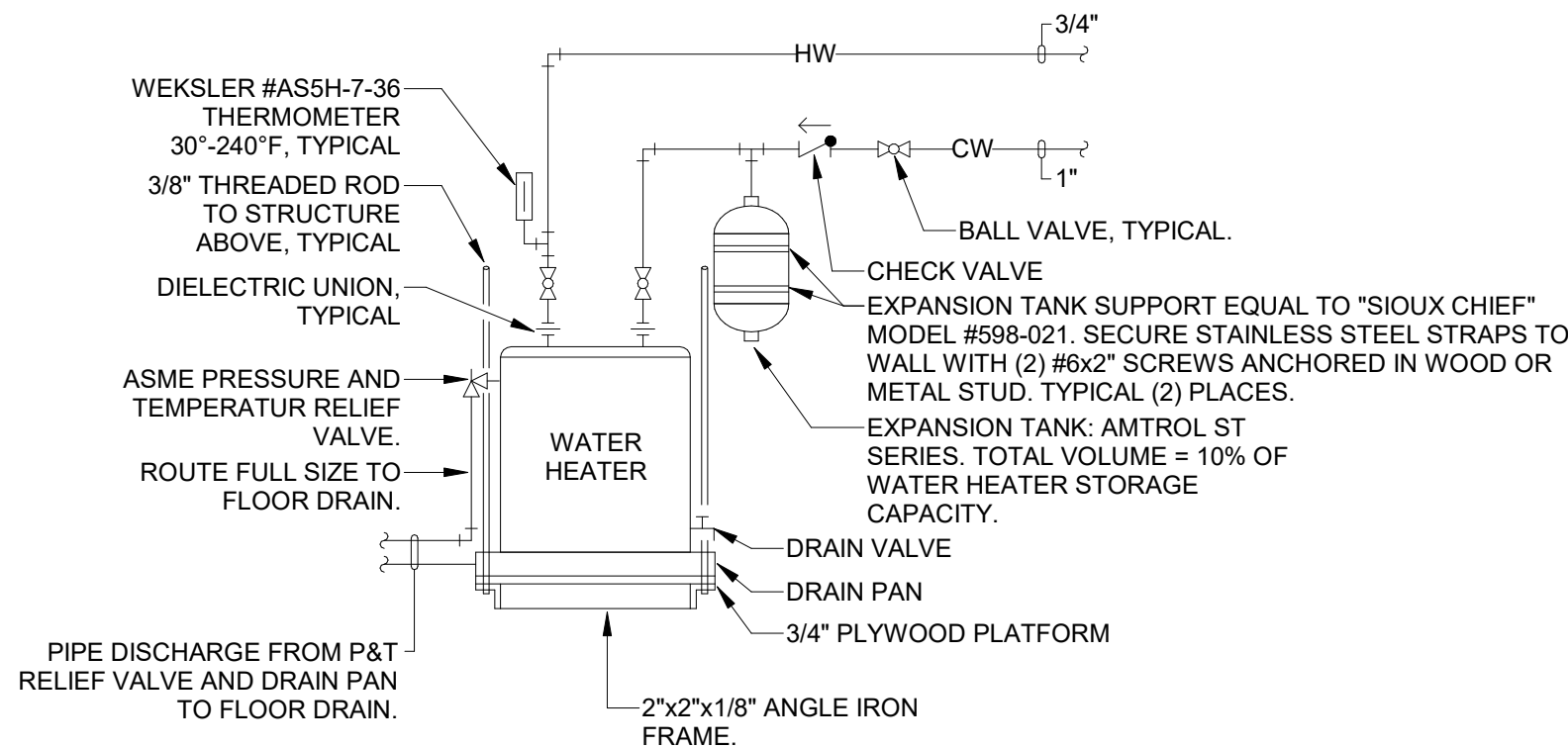


1
P3-0
OIL SEPARATOR DETAIL
NOT TO SCALE

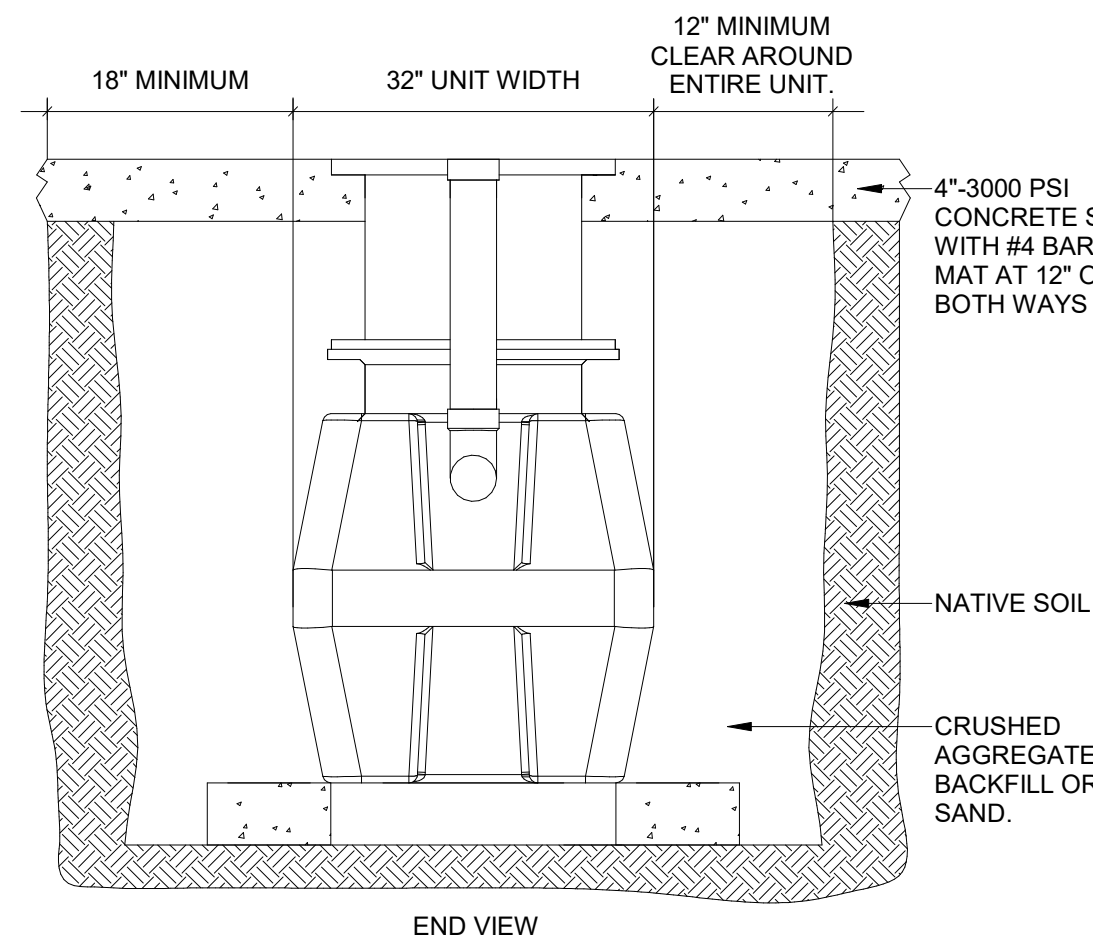


3
P3-0
WATER SERVICE DETAIL (DRAIN TO MOP BASIN)
NOT TO SCALE

NOTE: SET WATER HEATER TEMPERATURE TO 120°F WATER.



2
P3-0
ELECTRIC WATER HEATER PIPING DIAGRAM (SUSPENDED)
NOT TO SCALE



- EXCAVATION:**
1. WIDTH AND LENGTH OF EXCAVATION SHALL BE MINIMUM 12" GREATER THAN THE TANK ON ALL SIDES AND ENDS.
 2. DEPTH OF EXCAVATION SHALL BE 6" DEEPER THAN TANK BOTTOM.
 3. SET THE TANK IN WELL-PACKED CRUSHED AGGREGATE #7 BACKFILL MATERIAL WITH APPROXIMATELY 3/4" SIZE ROCK WITH NO FINES.
- BACKFILLING:**
1. FILL TANK WITH WATER BEFORE BACKFILLING TO PREVENT FLOAT OUT DURING PIPING INSTALLATION.
 2. BEFORE BACKFILLING AND POURING OF SLAB SECURE COVER(S) TO THE UNIT(S).
 3. BACKFILL USING CRUSHED AGGREGATE #7 BACKFILL MATERIAL APPROXIMATELY 3/4" SIZE ROCK OR SAND WITH NO FINES.

- GENERAL:**
1. UNIT SHALL BE INSTALLED LEVEL



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REVISION SCHEDULE

PROJECT DESCRIPTION:
PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
CHECKED BY: CRD/KNC

PROJECT NUMBER:
23-777

DATE:
2023.06.29

**PLUMBING
DETAILS**

SHEET NUMBER:

P3-0

PIPING SCHEDULE																															
SYSTEM	PIPING			FITTINGS		FIELD TEST		INSULATION	REMARKS																						
	SIZE	TYPE	ASTM	MATERIAL	TYPE	PRESSURE (PSI)	TIME (HOURS)																								
DOMESTIC WATER ABOVE GRADE (NOT IN PLENUM) (USE ONE OF THE FOLLOWING)	ALL	TYPE L HARD DRAWN COPPER	B88	WROUGHT COPPER	SJ	100	1	1/2" FG 1/2" CE	--																						
	ALL	PEX	F877	BRONZE	EX	100	1	1/2" CE	4																						
	ALL	DWV PVC	2665	PVC	SW,DF	10 FT WC	2	NOT REQUIRED	--																						
SOIL, WASTE & VENT BELOW GRADE (USE ONE OF THE FOLLOWING)	ALL	CAST IRON SOIL PIPE	A74	CAST IRON	HS	10 FT WC	2	NOT REQUIRED	--																						
	ALL	DWV PVC	2665	PVC	SW,DF	10 FT WC	2	NOT REQUIRED	--																						
SOIL, WASTE & VENT ABOVE GRADE (NOT IN PLENUM) (USE ONE OF THE FOLLOWING)	ALL	DWV PVC	2665	PVC	SW,DF	10 FT WC	2	NOT REQUIRED	--																						
	ALL	CAST IRON SOIL PIPE	A74	CAST IRON	NH	10 FT WC	2	NOT REQUIRED	--																						
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	TYPE M HARD DRAWN COPPER	B88	WROUGHT COPPER	SJ	NONE	--	NOT REQUIRED	--																						
NATURAL GAS PIPING - LOW PRESSURE (7" W.C. TO 2 PSI)	1/2" - 2"	SCH. 40 BLACK STEEL	A53	MALLEABLE-IRON	SEE REMARKS	SEE REMARKS	--	NOT REQUIRED	1,2,3																						
	2-1/2" AND LARGER	SCH. 40 BLACK STEEL	A53	MALLEABLE-IRON	MW	SEE REMARKS	--	NOT REQUIRED	1,2																						
CONDENSATE PIPING - INTERIOR	ALL	DWV PVC	2665	PVC	SW,DF	10 FT WC	2	1/2" FG 1/2" CE	5																						
<div>ABBREVIATIONS</div> <div>DF: DRAINAGE FITTING EX: PROPEX EXPANDER TYPE FITTINGS HS: HUB AND SPIGOT COMPRESSION JOINT NH: NO HUB GASKET TYPE COUPLING MW: MALLEABLE-IRON WELDED SJ: 95-5 TIN-ANTIMONY SOLDER JOINT SW: SOLVENT WELD</div> <div>HANGERS & SUPPORTS:</div> <div>HANGER RODS SHALL CONFORM TO THE FOLLOWING: <table><tr><th>PIPE SIZE</th><th>ROD DIAMETER</th></tr><tr><td>UP TO 2"</td><td>3/8"</td></tr><tr><td>2-1/2" TO 5"</td><td>1/2"</td></tr><tr><td>6" TO 10"</td><td>5/8"</td></tr></table></div> <div>TRAPEZE HANGER RODS SHALL BE OF SUFFICIENT SIZE TO CARRY WEIGHT OF TRAPEZE CHANNEL, PIPING AND CONTENTS, INSULATION SUPPORTS AND AN ADDITIONAL 200 LB. LOAD. SUPPORT VERTICAL PIPING AT EVERY FLOOR.</div> <div>MAXIMUM SPACING OF HANGERS AND SUPPORTS FOR STEEL, COPPER AND CAST IRON <table><tr><th>PIPE SIZE</th><th>SPACING</th></tr><tr><td>1/2"</td><td>4'-0"</td></tr><tr><td>3/4" TO 1"</td><td>6'-0"</td></tr><tr><td>1-1/4" AND LARGER</td><td>8'-0"</td></tr></table></div> <div>MAXIMUM SPACING OF HANGERS AND SUPPORTS FOR PVC <table><tr><th>PIPE SIZE</th><th>SPACING</th></tr><tr><td>1/2" TO 2"</td><td>4'-0"</td></tr><tr><td>2" AND LARGER</td><td>6'-0"</td></tr></table></div> <div>GENERAL NOTES</div> <div>1. PEX TUBING SHALL BE SUPPORTED EVERY 30". ONLY SUPPORTS SPECIFICALLY MANUFACTURED FOR SUPPORT OF PLASTIC TUBING ARE ALLOWED. TUBING SHOULD BE FREE TO MOVE WITHIN THE SUPPORT.</div> <div>2. ALL PIPING SHALL BE SUPPORTED AT EVERY JOINT/FITTING.</div> <div>3. WIRE OR PERFORATED STRAP IRON HANGERS, EXPANSION ANCHORS, AND POWER ACTUATED FASTENERS WILL NOT BE PERMITTED.</div>										PIPE SIZE	ROD DIAMETER	UP TO 2"	3/8"	2-1/2" TO 5"	1/2"	6" TO 10"	5/8"	PIPE SIZE	SPACING	1/2"	4'-0"	3/4" TO 1"	6'-0"	1-1/4" AND LARGER	8'-0"	PIPE SIZE	SPACING	1/2" TO 2"	4'-0"	2" AND LARGER	6'-0"
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<div>REMARKS</div> <div>1. PIPING SHALL BE SEAMLESS, GRADE B. 2. INSPECT, TEST, AND PURGE NATURAL GAS SYSTEMS ACCORDING TO NFPA 54, PART 4 "GAS PIPING INSPECTION, TESTING, AND PURGING" AND LOCAL GAS UTILITY REQUIREMENTS. 3. ACCESSIBLE GAS PIPE FITTINGS SHALL BE MALLEABLE-IRON THREADED, CONCEALED GAS FITTINGS SHALL BE MALLEABLE-IRON WELDED. 4. EXPOSED PIPING SHALL BE COPPER UNLESS OTHERWISE NOTED. EXCEPTION: MECHANICAL ROOMS. 5. CONDENSATE PIPING IN MECHANICAL ROOMS DOES NOT REQUIRE INSULATION UNLESS OTHERWISE NOTED.</div> <div>INSULATION</div> <div>APPROVED MANUFACTURERS: CERTAINTEED, KNAUF INSULATION JOHNS MANVILLE, OWENS CORNING ARMACELL, AEROFLEX</div> <div>FIBERGLASS: MINIMUM 3-1/2" POUNDS PER CUBIC FOOT DENSITY. FIBERGLASS FACTORY MOLDED OR SPUN PIPE INSULATION WITH A "K" FACTOR OF 0.25 AT 75F. MEAN TEMPERATURE AND A FACTORY APPLIED FIRE RETARDANT SELF SEALING VAPOR BARRIER "ASJ" JACKET, BUTT ALL JOINTS FIRMLY TOGETHER. COVER JOINTS WITH 3" BUTT STRIPS. SMOOTHLY SECURE ALL JACKET LAPS AND JOINS STRIPS WITH ADHESIVE, SELF-SEALING LAPS SHALL BE APPLIED ACCORDING TO MANUFATRUERS' RECOMMENDATIONS. ENDS OF PIPE INSULATION SHALL BE SEALED OFF WITH A VAPOR BARRIER COATING AT ALL FITTINGS AND VALVES AND AT INTERVALS OF 21' ON CONTINUOUS RUNS.</div> <div>CLOSED-CELL ELASOMERIC INSULATION: IN TUBULAR FORM EQUAL TO ARMACELL "AP ARMAFLEX". SELF-SEALING PIPE INSULATION SUCH AS ARMACELL "AP ARMAFLEX SS" IS NOT ALLOWED. BUTT ALL JOINTS FIRMLY TOGETHER AND SEAL WITH ARMAFLEX 520 BLV ADHESIVE.</div>																															

PLUMBING FIXTURE SCHEDULE									
NOTES: 1. COORDINATE THE ROUGH-IN OF ALL PLUMBING FIXTURES WITH THE ARCHITECTURAL PLANS. 2. PROVIDE SERVICE VALVES ON ALL SUPPLY FIXTURES.									
MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	ACCESSORIES	PIPING REQUIREMENTS			REMARKS	APPROVED MANUFACTURERS
					WASTE	VENT	SUPPLY		
HWCT	HANDICAP ACCESSIBLE WATER CLOSET (TANK TYPE)	TOTO	DRAKE CST744SL	CHURCH #3155SSC WHITE OPEN FRONT SEAT COMPLETE WITH BOLT CAPS	4"	2"	1/2"	1.6 GALLONS PER FLUSH, FLUSH HANDLE ON WIDE SIDE OF STALL	WATER CLOSET: AMERICAN STANDARD, ZURN, KOHLER, CRANE SEAT: AMERICAN STANDARD, KOHLER, TOTO
URN	URINAL (WALL MOUNT)	TOTO	UT447	ZURN #Z8003AV-WS1-YBYC FLUSH VALVE AND JAY R. SMITH #6030 FLOOR MOUNTED URINAL SUPPORTS	2"	1 1/2"	3/4"	1.0 GALLONS PER FLUSH	URINAL: AMERICAN STANDARD, ZURN, KOHLER, CRANE FLUSH VALVE: CHICAGO FAUCET, SLOAN, TOTO
CLAV	HANDICAP ACCESSIBLE LAVATORY (COUNTERTOP)	TOTO	LT402.4	CHICAGO FAUCET #2200-4E2805 CENTERSET FAUCET WITH GRID DRAIN AND TRUEBRO LAV GUARD 2 PIPE COVER	2"	1 1/2"	1/2"	--	LAVATORY: AMERICAN STANDARD, ZURN, KOHLER, CRANE FAUCET: DELTA, MOEN, T&S BRASS, ZURN, KOHLER
LAV	HANDICAP ACCESSIBLE LAVATORY (WALL MOUNT)	TOTO	LT307.4	CHICAGO FAUCET #2200-4E2805 CENTERSET FAUCET WITH GRID DRAIN, JAY R. SMITH #0710 FLOOR MOUNTED LAVATORY SUPPORTS AND TRUEBRO LAV GUARD 2 PIPE COVER	2"	1 1/2"	1/2"	--	LAVATORY: AMERICAN STANDARD, ZURN, KOHLER, CRANE FAUCET: DELTA, MOEN, T&S BRASS, ZURN, KOHLER
MB	MOP BASIN	FIAT	MSB-2424	#832-AA HOSE AND BRACKET, #899-CC-24" MOP HANGER AND CHICAGO FAUCET #897-RCF SERVICE SINK FAUCET	3"	1 1/2"	1/2"	WITH VACUUM BREAKER	MOP BASIN: SWANSTONE, STERN WILLIAMS FAUCET: AMERICAN STANDARD, MOEN, T&S BRASS, ZURN
DF	DRINKING FOUNTAIN	ELKAY	EZS8	#LKAPREZL APRON	2"	1 1/2"	1/2"	RIM HEIGHT 38" A.F.F.	HALSEY-TAYLOR, OASIS
HBEX	HOSE BIBB (EXTERIOR)	WOODFORD	MODEL HC65	WALL CLAMP, VACUUM BREAKER, KEY OPERATOR	--	--	3/4"	INSTALL 12" ABOVE FINISHED SLAB	ZURN AND JAY R. SMITH
HBIN	HOSE BIBB (INTERIOR)	WOODFORD	MODEL SL-24	WALL CLAMP, VACUUM BREAKER, STEM LOCK	--	--	3/4"	INSTALL 12" ABOVE FINISHED SLAB	ZURN AND JAY R. SMITH
IMB	ICE MAKER BOX	OATEY	38808	QUARTER TURN VALVE	--	--	1/2"	20 GA. STEEL BOX	GUY GRAY
COEX	CLEANOUT (EXTERIOR)	ZURN	Z1474	DURA-COATED CAST IRON	SEE PLAN	--	--	SAME SIZE AS LINE	JAY R. SMITH, JOSAM, MIFAB, WADE, WATTS
COHD	CLEANOUT (EXTERIOR)	ZURN	ZS1400	DURA-COATED CAST IRON BODY W/POLISHED NICKEL BRONZE HEAVY DUTY TOP	SEE PLAN	--	--	SAME SIZE AS LINE	JAY R. SMITH, JOSAM, MIFAB, WADE, WATTS
FDR	FLOOR DRAIN (ROUND STRAINER)	ZURN	ZN415B	5" NICKLE BRONZE LIGHT DUTY STRAINER AND "PROSET" SYSTEMS TRAP GUARD	2"	1 1/2"	--	--	JAY R. SMITH, JOSAM, MIFAB, WADE, WATTS
FDS	FLOOR DRAIN (SQUARE STRAINER)	ZURN	ZN415S	5"x5" NICKLE BRONZE LIGHT DUTY STRAINER AND "PROSET" SYSTEMS TRAP GUARD	2"	1 1/2"	--	--	JAY R. SMITH, JOSAM, MIFAB, WADE, WATTS
DSK	DOUBLE COMPARTMENT SINK	ELKAY	DLR-332210	CHICAGO FAUCET #2300-8CP FAUCET AND #LK-35 STRAINER AND IN-SINK-ERATOR BADGER 5XP DISPOSER WITH 3/4 HP MOTOR	2"	1 1/2"	1/2"	PUNCHED THREE HOLES, 10" DEEP BOWL, 18 GA. CONST.	SINK: AMERICAN STANDARD, KOHLER, MOEN, ZURN FAUCET: AMERICAN STANDARD, DELTA, MOEN, T&S BRASS, KOHLER
CB	CATCH BASIN	ZURN	Z887-24-DGC-HD-Y	SEDIMENT BUCKET	4"	2"	--	--	JAY R. SMITH
CO	CLEANOUT (INTERIOR)	ZURN	ZN1400	DURA-COATED CAST IRON BODY W/POLISHED NICKEL BRONZE LIGHT DUTY TOP	SEE PLAN	--	--	SAME SIZE AS LINE	JAY R. SMITH, JOSAM, MIFAB, WADE, WATTS
HSBW	HANDICAP ACCESSIBLE SHOWER BASIN	SWAN CORPORATION	FBF-3060L	--	--	--	1/2"	--	SWAN CORPORATION, AQUA BATH, STERLING, DELTA
HSV	HANDICAP ACCESSIBLE SHOWER VALVE	CHICAGO FAUCET	2500-VOCCP	DELTA #RPW338HDF HANDHELD SHOWER, SPIRAL METAL HOSE, AND VACUUM BREAKER WALL SUPPLY ELBOW	--	--	1/2"	--	DELTA, BRADLEY AND T&S BRASS
TD	TRENCH DRAIN	ZURN	Z886-DGE-HD	--	4"	2"	--	--	JAY R. SMITH, WATTS
WCO	WALL CLEANOUT	ZURN	Z1468	--	SEE PLAN	--	--	SAME SIZE AS LINE	JAY R. SMITH, JOSAM, MIFAB, WADE, WATTS

VALVE SCHEDULE									
FUNCTION	SIZE	TYPE	MANUFACTURER MODEL#	MATERIAL	ASTM	END CONNECTIONS	PRESSURE RATING (PSI)	REMARKS	APPROVED MANUFACTURERS
ISOLATION (DOMESTIC WATER)	1/2" - 2"	BALL QUARTER TURN	--	BRASS/BRONZE	B62	EX,SJ	150	--	APOLLO, CRANE, MILWAUKEE VALVE, NIBCO, WATTS
	2-1/2" - 6"	BUTTERFLY QUARTER TURN	--	EPOXY COATED DUCTILE IRON	A536	MJ	200	1	APOLLO,CRANE, GRINNELL, MILWAUKEE VALVE, NIBCO, WATTS
REDUCED PRESSURE ZONE ASSEMBLY	1/2" - 2"	--	WATTS LF009-QT-S	BRASS/BRONZE	AWWA C511-92	NP	175	3	APOLLO, WATTS, ZURN
	2-1/2" - 6"	--	WATTS LF909-QT-S	EPOXY COATED CAST IRON	AWWA C511-92	MJ	175	3	APOLLO, WATTS, ZURN
PRESSURE REDUCING VALVE	3/4" - 2-1/2"	--	WATTS LF223S	BRASS/BRONZE	ANSI A112.26	NP	300	--	APOLLO, WATTS, ZURN
	3" - 6"	--	WATTS F115-74	EPOXY COATED DUCTILE IRON	A536	MJ	250	--	APOLLO, WATTS, ZURN
ANGLE STOP	1/4" - 1/2"	BALL QUARTER TURN	--	BRASS/BRONZE	B62	EX,SJ	125	--	BRASSCRAFT, NIBCO
ISOLATION (NATURAL & LP GAS)	1/2" - 2"	BALL QUARTER TURN	--	BRASS/BRONZE	B62	NP	5	4,5	NIBCO, WATTS
	2-1/2" - 6"	LUBRICATED PLUG	--	SEMI-STEEL	A536	MJ	200	5	HOMESTEAD,NORDSTROM
<u>APPROVED MANUFACTURERS</u>								<u>ABBREVIATIONS:</u> EX: PROPEX EXPANDER TYPE FITTINGS MJ: GASKETED MECHANICAL JOINT NP: NPT SJ: 95-5 TIN-ANTIMONY SOLDER JOINT	
1. BELL & GOSSETT, CRANE, GRINNELL, KEYSTONE, MILWAUKEE VALVE, NIBCO, STOCKHAM, UPONOR, VICTAULIC, WATTS									
<u>GENERAL NOTES</u>									
1. ALL VALVES USED FOR POTABLE WATER APPLICATIONS SHALL BE APPROVED FOR USE AS SUCH AND BE LABELED LEAD FREE. 2. MULTI-TURN ANGLE STOPS ARE NOT ALLOWED. 3. VALVE SHALL BE SAME SIZE AS UPSTREAM PIPE UNLESS OTHERWISE NOTED.									
<u>REMARKS</u>									
1. DISC MATERIAL TO BE ASTM A395 ALUMINUM BRONZE WITH ONE PIECE 418 STAINLESS STEEL SHAFT AND LOCKING LEVER. 2. INSTALL VALVE A MINIMUM OF (10) PIPE DIAMETERS DOWNSTREAM FROM ANY FITTING OR PUMP AND AT LEAST (2) PIPE DIAMETERS UPSTREAM. 3. PROVIDE WITH QUARTER TURN BALL VALVES, BALL VALVE TEST COCKS, BRONZE STRAINER AND AIR GAP. PIPE DRAIN AS INDICATED ON DRAWINGS. 4. PROVIDE LEVER HANDLE FOR INTERIOR APPLICATIONS AND FLAT OR SQUARE HEAD FOR EXTERIOR APPLICATIONS. 5. VALVE SHALL BEAR AGA STAMP.									

WATER HEATER SCHEDULE										
GENERAL NOTES						ABBREVIATIONS				
1. APPROVED MANUFACTURERS: AO SMITH, LOCKINVAR, STATE, BRADFORD WHITE						PTRV PRESSURE & TEMPERATURE RELIEF VALVE.				
2. PROVIDE DRAIN PAN AND 4" HOUSEKEEPING PAD 2" LARGER THAN DRAIN PAN ON ALL SIDES.										
MARK	MANUFACTURER	MODEL NO.	TYPE	CAPACITY (GAL.)	RECOVERY (GPH@90°F)	INPUT		OUTPUT (MBH)	VOLT/PH	ACCESSORIES
WH-1	AO SMITH	DEL-50	ELEC.	50	20	GAS (MBH)	ELEC (KW)	--	208/1	PTRV



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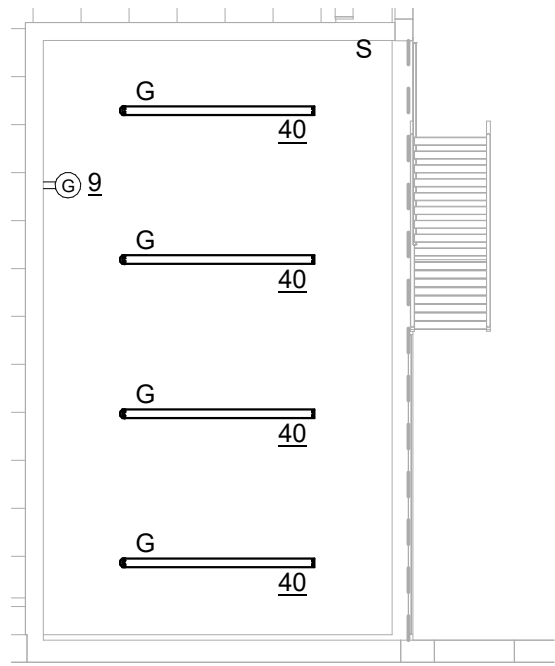
23-777

DATE:
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PLUMBING
SCHEDULES

SHEET NUMBER:

P4-0



MEZZANINE ELECTRICAL PLAN

SCALE 1/8" = 1'-0"

RECEPTACLE SCHEDULE

UNLESS NOTED "AC", THE RECEPTACLE MOUNTING HEIGHT IS TO THE DEVICE MID-POINT MEASURED ABOVE THE ASSOCIATED FLOOR, STAIR TREAD, STAIR LANDING, OR PLATFORM.

WALLPLATE COLOR SHALL MATCH RECEPTACLE COLOR, UNO.

AC DEVICE MID-POINT AT 4" ABOVE COUNTER, OR COUNTER BACKSPALSH IF PRESENT.
S/S STAINLESS STEEL
GFCI GROUND FAULT CIRCUIT INTERRUPTER
TR TAMPER RESISTANT
IG ISOLATED GROUND
SS SURGE SUPPRESSION
HG HOSPITAL GRADE
USB USB CHARGING
WP WEATHERPROOF
WPI WEATHERPROOF IN-USE

NOTES:

- COORDINATE ROUGH-IN LOCATION WITH RANGE/OVEN AS PROVIDED BY OWNER

TYPE	MOUNTING HEIGHT	COLOR	WALLPLATE	FEATURES								COVER		NEMA	NOTES
				GFCI	TR	IG	SS	HG	USB	WP	WPI				
A	18"	WHITE	NYLON	-	-	-	-	-	-	-	-	-	-	5-20	
B	18"	WHITE	NYLON	X	-	-	-	-	-	-	-	-	-	5-20	
F	AC	WHITE	NYLON	X	-	-	-	-	-	-	-	-	-	5-20	
G	48"	WHITE	NYLON	-	-	-	-	-	-	-	-	-	-	5-20	
H	48"	WHITE	NYLON	X	-	-	-	-	-	-	-	-	-	5-20	
M	18"	GRAY	-	X	-	-	-	-	-	X	-	-	-	5-20	
P	4"	BLACK	NYLON	-	-	-	-	-	-	-	-	-	-	14-50	1
S	VERIFY	WHITE	NYLON	-	-	-	-	-	-	-	-	-	-	5-20	
U	48"	GRAY	S/S	X	-	-	-	-	-	-	-	-	-	5-20	
V	VERIFY	WHITE	NYLON	-	-	-	-	-	-	-	-	-	-	5-20	

KEY NOTES

INDICATED BY SYMBOLS ① ② ETC.

- PROVIDE RECEPTACLE ADJACENT TO OVERHEAD DOOR CONTROLLER. PROVIDE LOW-VOLTAGE CONTROL WIRING AS REQUIRED.
- PROVIDE FURNITURE-FEED FLOOR BOX EQUAL TO HUBBELL #S1PFB WITH #S1D1V1 LOW-VOLTAGE DIVIDER AND #S1SPFAL COVER. PROVIDE 1.5" CONDUIT WITH PULL-STRING TO ACCESSIBLE CEILING SPACE. MAKE LINE-VOLTAGE CONNECTION TO FURNITURE RACEWAY. VERIFY EXACT LOCATION WITH ARCHITECT.
- PROVIDE 60A/2P NON-FUSED, NEMA-3R DISCONNECT SWITCH FOR HVAC UNIT. MAKE DIRECT CONNECTION TO UNIT.
- CIRCUIT EXHAUST FAN FOR CONTROL WITH CORRIDOR 101 LIGHTS. MAKE DIRECT CONNECTION AT FACTORY INSTALLED DISCONNECT.
- PROVIDE ACCESS CONTROL ROUGH-IN AT APPROXIMATELY 48" AFF FOR DEVICE AND WIRING BY OTHERS. PROVIDE 3/4" CONDUIT UP TO STRUCTURAL CEILING, OR ABOVE CEILING GRID AS CONDITIONS ALLOW. VERIFY EXACT LOCATION WITH SYSTEM INSTALLER.
- PROVIDE CONNECTION AS REQUIRED TO ACCESS CONTROL UNIT. VERIFY REQUIREMENTS WITH SYSTEM INSTALLER.
- UTILIZE CIRCUITRY FOR CONNECTION TO ADA DOOR CONTROLLERS AND OPERATOR. VERIFY REQUIREMENTS WITH ARCHITECT.
- PROVIDE RECEPTACLE BELOW SINK AND 120V/20A MOTOR-RATED SWITCH ABOVE COUNTER FOR GARBAGE DISPOSAL.
- ROUTE CIRCUITRY FOR EXHAUST FAN THROUGH KITCHEN HOOD CONTROL PANEL SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR. MAKE DIRECT CONNECTION AT FACTORY INSTALLED DISCONNECT.
- PROVIDE 4"x8"x3/4" PLYWOOD SHEATHING FOR MOUNTING OF COMMUNICATIONS EQUIPMENT. AFFIX TO WALL WITH BOTTOM 6" ABOVE FINISH FLOOR.
- PROVIDE MOTOR-RATED SWITCH AS MEANS OF DISCONNECT FOR HVAC UNIT.
- RECEPTACLE INSTALLED AT CEILING FOR PROJECTOR. VERIFY LOCATION WITH OWNER OR ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE 30A/2P NON-FUSED, NEMA-3R DISCONNECT SWITCH FOR HVAC UNIT. MAKE DIRECT CONNECTION TO UNIT.

GENERAL NOTES

- ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, 2005 EDITION.
- FIRE ALARM SYSTEM AND DEVICES ARE INDICATED HEREIN AS A GENERAL BASIS OF DESIGN. THE CONTRACTOR SHALL OBTAIN EXACT FIRE ALARM SYSTEM REQUIREMENTS FROM SYSTEM MANUFACTURER'S REPRESENTATIVE WITH A MINIMUM OF NICET LEVEL III CERTIFICATION, AND UTILIZE SUCH TO INCLUDE INSTALLATION AND SYSTEM COST WITHIN BID. CONTRACTOR SHALL SUBMIT FIRE ALARM SHOP DRAWINGS FOR REVIEW BY DESIGN TEAM, FIRE MARSHAL, AND/OR OTHER AUTHORITY HAVING JURISDICTION. ACCEPTABLE FIRE ALARM SYSTEM MANUFACTURERS ARE EDWARDS, HONEYWELL (SILENT KNIGHT), NOTIFIER, AND SIMPLEX-GRINNELL.

UNDERLINED NUMBER ADJACENT TO DEVICE OR EQUIPMENT INDICATES CIRCUIT DERIVED FROM PANEL 'P1' (TYPICAL THIS SHEET).

PROVIDE RIGID MOUNTING AT STRUCTURE FOR FAN JUNCTION BOX AND MAKE FINAL CONNECTIONS. ROUTE CIRCUITRY THROUGH CONTROLLER FURNISHED WITH FAN.

PROVIDE FAN/LOUVER SWITCH AT 48" AFF.

PROVIDE 3-POLE CONTACTOR WITH 120V COIL FOR "EF-2" CONTROL BY FAN/LOUVERS SWITCH. MAKE DIRECT CONNECTION TO UNIT.



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PUBLIC WORKS FACILITY

200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
CHECKED BY: CRD/KNC

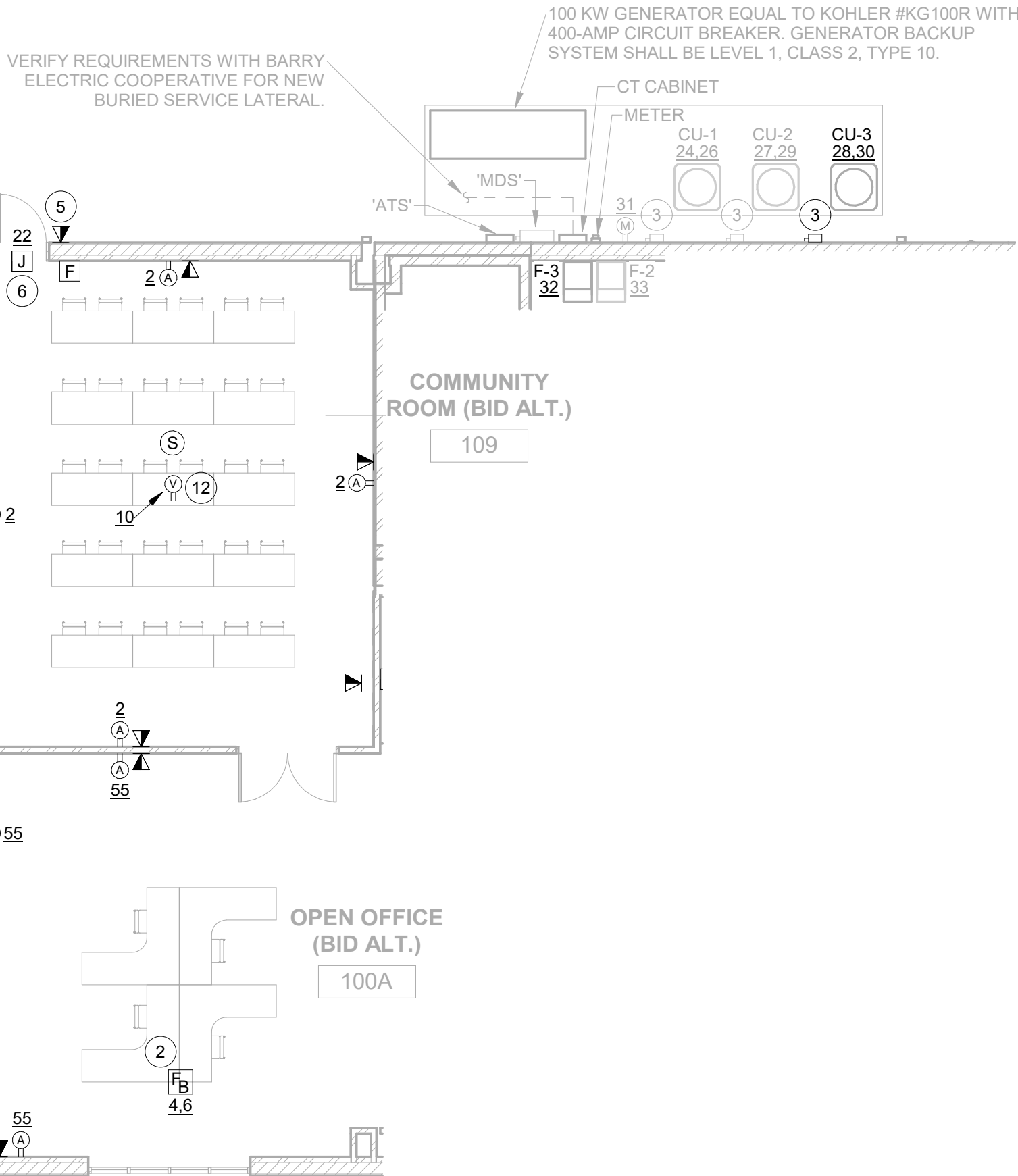
PROJECT NUMBER:
23-777

DATE:
2023.06.29

POWER PLAN

SHEET NUMBER:

E1-0

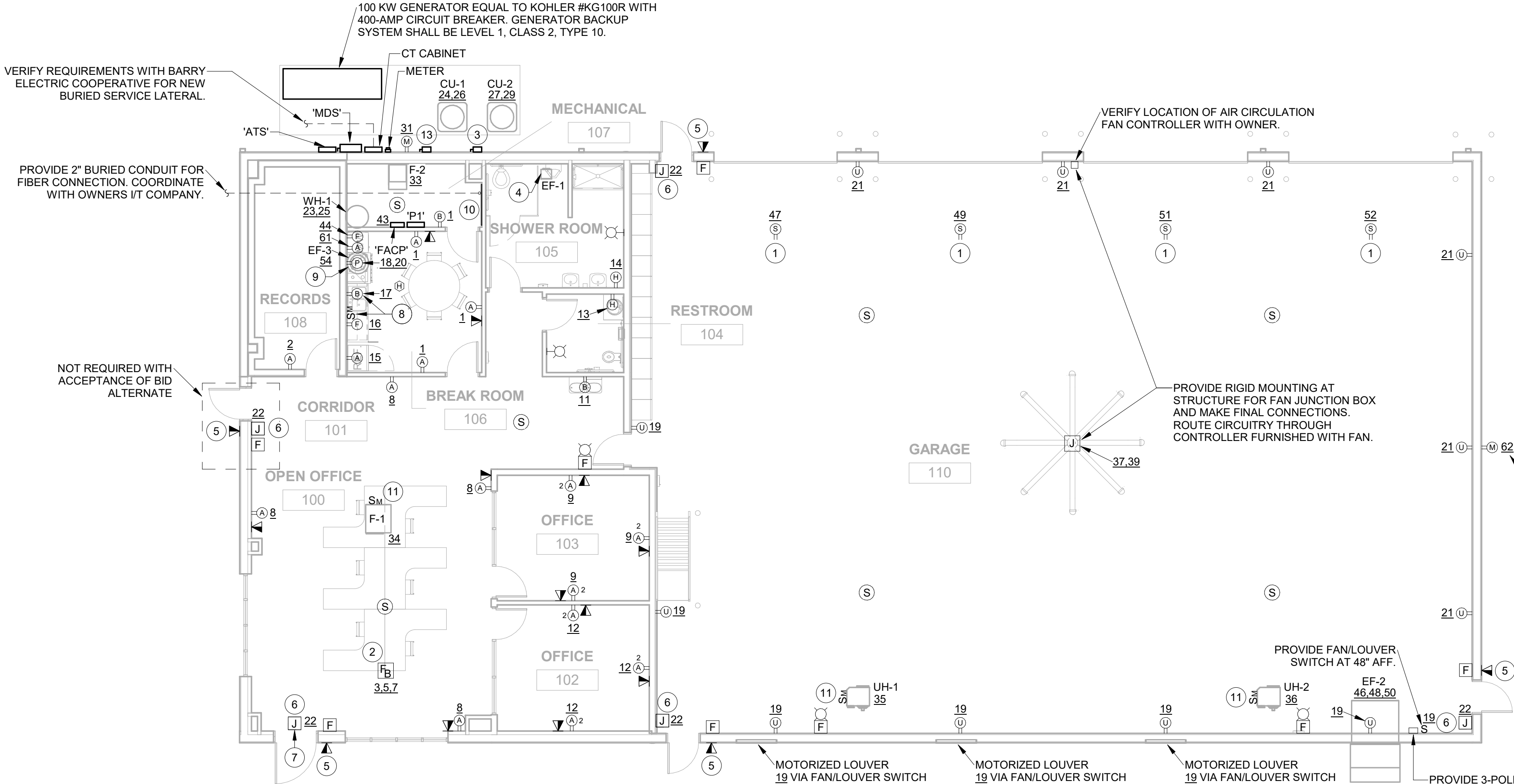


NOTE:
MARK ALL CIRCUIT BREAKERS
"SPARE" IF BID ALTERNATE IS
NOT ACCEPTED.



POWER PLAN BID ALT

SCALE 1/8" = 1'-0"



POWER PLAN

SCALE 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE						
MARK	MANUFACTURER	MODEL	CCT	VOLTAGE	WATTAGE	
A	COOPER LIGHTING	24FP4740C	4000 K	120 V	41 W	
B	H.E. WILLIAMS	GL-4-L300/840-GC2/Y18/5-WGC11 F&I-DIM-UNV	4000 K	120 V	222 W	
C	H.E. WILLIAMS	VWMH-L17/840-T3-BLK-SDGL-DIM-UNV	4000 K	120 V	16 W	
C1	H.E. WILLIAMS	VWMH-L60/740-T3-BLK-SDGL-DIM-UNV	4000 K	120 V	70 W	
D	COOPER LIGHTING	HLB4-06-940-1E-MW-R-HLB4ROTMW	4000 K	120 V	10 W	
F	H.E. WILLIAMS	WPMLED25B	4000 K	120 V	100 W	
G	H.E. WILLIAMS	76-8-L106/840-DIM-UNV	4000 K	120 V	67 W	
H	LSI	PXSMA-LED-28L-1-FT-UNV-40-4SQ20-AB	4000 K	120 V	200 W	
K	H.E. WILLIAMS	VF2-L88-740-MF-SR-DBZ-DIM-UNV-STK	4000 K	120 V	75 W	
X	H.E. WILLIAMS	EXIT/EM/LED-R-WHT-RC-D-WETDRHL-T-GRAY-MV		120 V		

KEY NOTES

INDICATED BY SYMBOLS ①, ②, ETC.

1. PROVIDE ULTRASONIC OCCUPANCY SENSOR EQUAL TO HUBBELL ATU1000CL. SET FOR 15-MINUTE DELAY.
2. PROVIDE PASSIVE INFRARED OCCUPANCY SENSOR EQUAL TO HUBBELL ATP1500CL. SET FOR 15-MINUTE DELAY.

GENERAL NOTES

1. ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, 2005 EDITION.
2. MOUNTING HEIGHT ABBREVIATIONS:
AFF ABOVE FINISHED FLOOR
TOF TOP OF FIXTURE AFF
MOF MID-POINT/CENTER OF FIXTURE AFF
BOF BOTTOM OF FIXTURE AFF
ADF BOTTOM OF FIXTURE 2" ABOVE DOOR FRAME
3. LOWER-CASE LETTERING ADJACENT TO LIGHT FIXTURES INDICATES SWITCH CONTROL. REFERENCE SWITCH(ES) WITH CORRESPONDING LOWER-CASE LETTER.
4. CIRCUIT EMERGENCY LIGHT FIXTURES UN-SWITCHED WITH PHASE AND NEUTRAL CONDUCTORS OF LIGHTING CIRCUITRY WITHIN THE SPACE IN WHICH EMERGENCY LIGHT FIXTURES ARE LOCATED
5. CIRCUIT LIGHT FIXTURES DESIGNATED "NL" UN-SWITCHED WITH PHASE AND NEUTRAL CONDUCTORS OF LIGHTING CIRCUIT.
6. UNLESS OTHERWISE NOTED, PROVIDE DIMMING SWITCHES RATED 0-10V WITH ASSOCIATED WIRING.
7. WHERE LIGHT FIXTURES ARE INDICATED FOR RELOCATION OR REMOVAL, MAINTAIN EXISTING CIRCUIT CONTINUITY AS REQUIRED.



MISSOURI STATE CERTIFICATE OF AGENCY NUMBER A-2010000419

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100% CD

REVISION SCHEDULE

PROJECT DESCRIPTION:

PUBLIC WORKS FACILITY

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PROJECT ENGINEER: CRD/KNC
DRAWN BY: CDI
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PROJECT NUMBER:
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LIGHTING PLAN

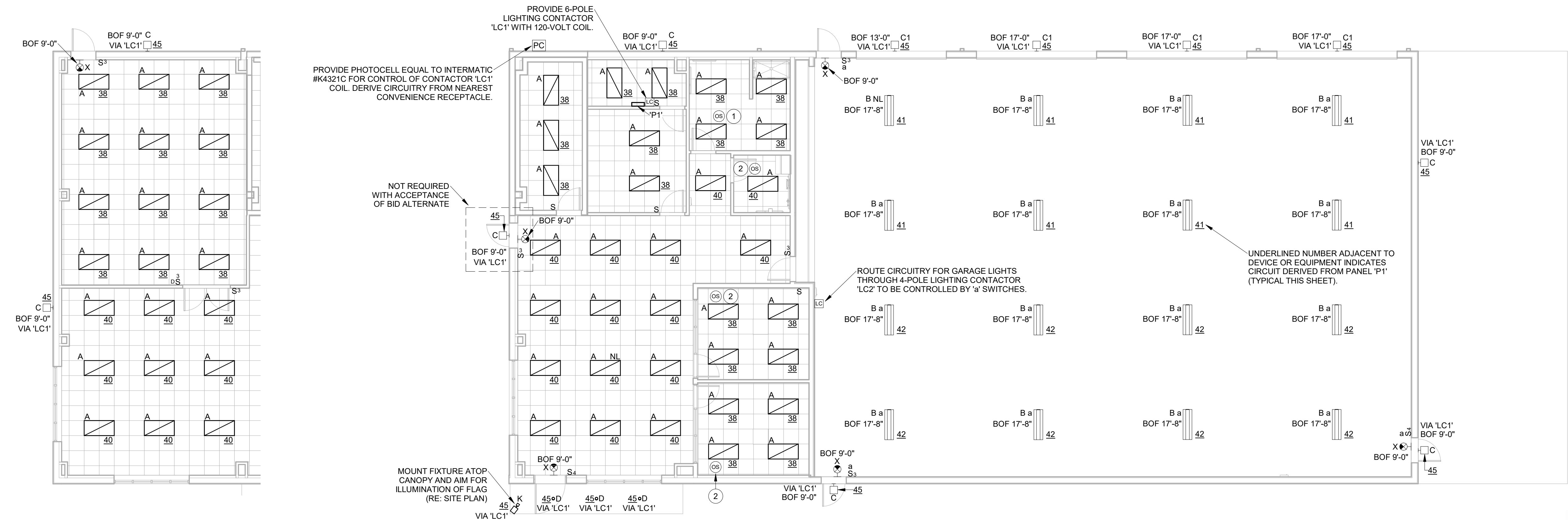
SHEET NUMBER:

E2-0



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MISSOURI COA: E-2014013301



LIGHTING PLAN BID ALT

SCALE 1/8" = 1'-0"

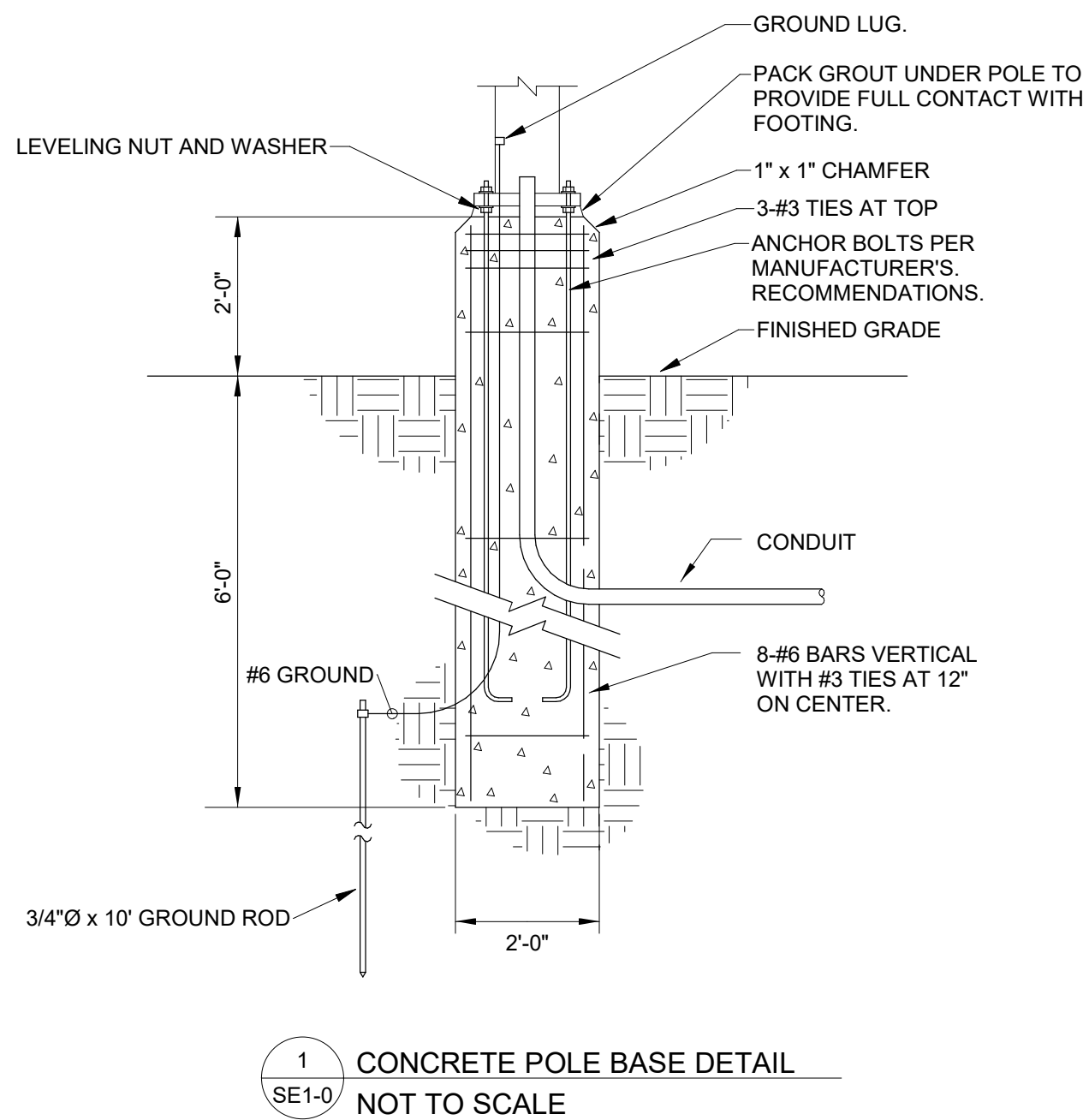


LIGHTING PLAN BASE BID

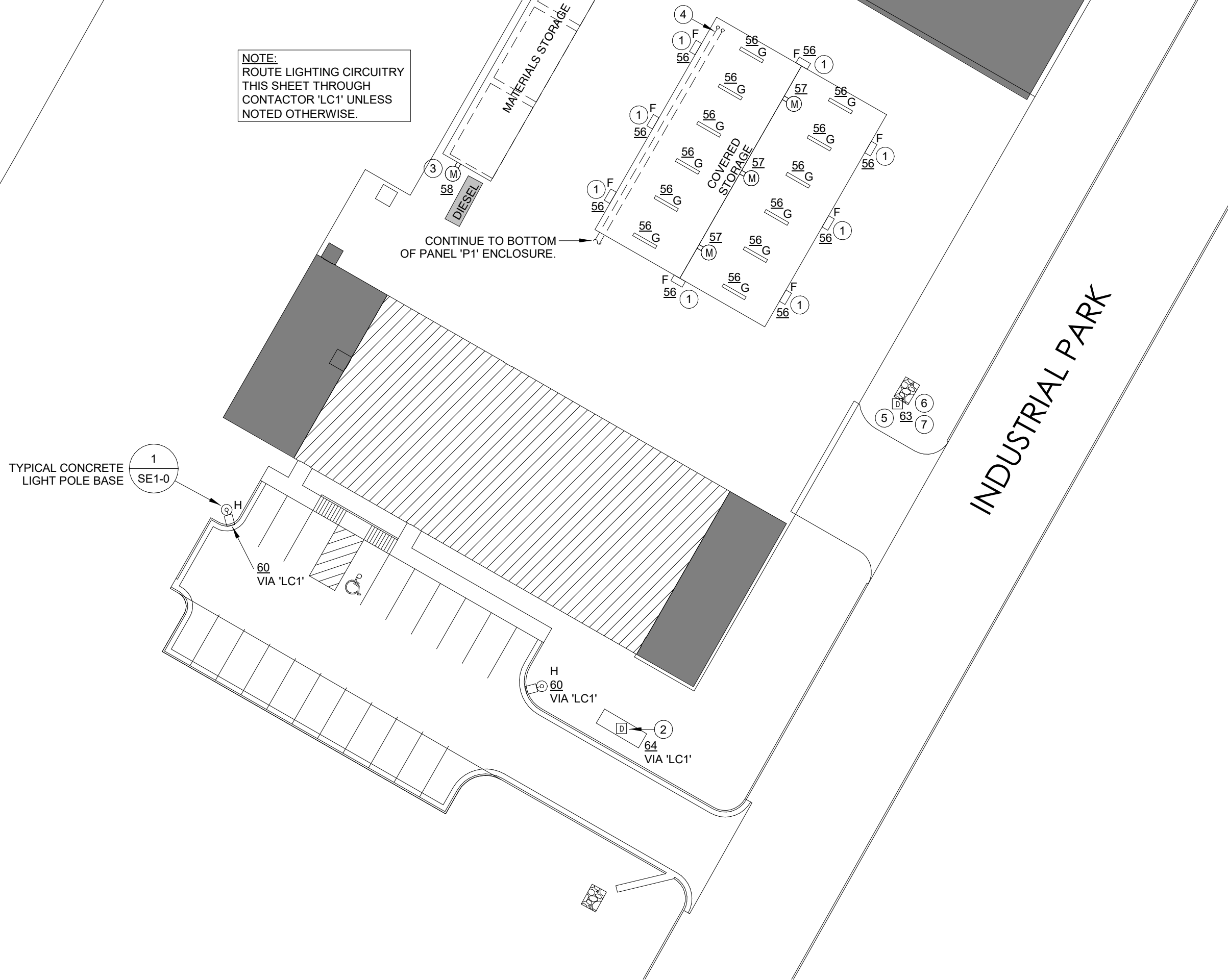
SCALE 1/8" = 1'-0"

CONDUCTORS AND CONDUIT SCHEDULE						
OVERCURRENT PROTECTION DEVICE RATING	CONDUCTORS	EQUIPMENT GROUNDING CONDUCTOR	SINGLE PHASE 2-WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3-WIRE + GND. CONDUIT SIZE	THREE PHASE 3-WIRE + GND. CONDUIT SIZE	THREE PHASE 4-WIRE + GND. CONDUIT SIZE
15 AMP	14 AWG	14 AWG	1/2"	1/2"	1/2"	1/2"
20 AMP	12 AWG	12 AWG	1/2"	1/2"	1/2"	1/2"
25 AMP	10 AWG	10 AWG	1/2"	1/2"	1/2"	1/2"
30 AMP	10 AWG	10 AWG	1/2"	1/2"	1/2"	1/2"
35 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
40 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
45 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
50 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
60 AMP	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
70 AMP	4 AWG	8 AWG	3/4"	1"	1"	1-1/4"
80 AMP	4 AWG	8 AWG	3/4"	1"	1"	1-1/4"
90 AMP	3 AWG	8 AWG	1"	1"	1"	1-1/4"
100 AMP	3 AWG	8 AWG	1"	1"	1"	1-1/4"
110 AMP	2 AWG	6 AWG	1"	1-1/4"	1-1/4"	1-1/4"
125 AMP	1 AWG	6 AWG	1-1/4"	1-1/4"	1-1/4"	1-1/2"
150 AMP	1/0 AWG	6 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"
175 AMP	2/0 AWG	6 AWG	1-1/4"	1-1/2"	1-1/2"	2"
200 AMP	3/0 AWG	6 AWG	1-1/4"	2"	2"	2"
225 AMP	4/0 AWG	4 AWG	1-1/2"	2"	2"	2-1/2"
250 AMP	250 kcmil	4 AWG	2"	2"	2"	2-1/2"
300 AMP	350 kcmil	4 AWG	2"	2-1/2"	2-1/2"	2-1/2"
350 AMP	500 kcmil	3 AWG	2-1/2"	2-1/2"	2-1/2"	3"
400 AMP	600 kcmil	3 AWG	2-1/2"	3"	3"	3-1/2"
NOTE: CONDUCTOR SIZES BASED ON COPPER, TYPE THHN, WITH THREE (MAXIMUM) CURRENT-CARRYING CONDUCTORS IN MINIMUM SIZED EMT. CONDUIT SIZES SHALL BE INCREASED AT CONTRACTOR'S DISCRETION, OR FOR CONDUIT MATERIALS OTHER THAN EMT AS REQUIRED. CONDUCTORS SHALL BE DERATED IF FOUR OR MORE CURRENT-CARRYING CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE WHERE PLANS INDICATE UP-SIZED CONDUCTORS DUE TO VOLTAGE DROP, THE EQUIPMENT GROUNDING CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY.						

Branch Panel: P1													
Location: BREAK ROOM 107 Supply From: SERVICE AND GENERATOR Mounting: SURFACE Enclosure: TYPE 1							Volts: 120/208 Wye Phases: 3 Wires: 4			A.I.C. Rating: 22K Mains Type: MLO Mains Rating: 400 A			
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT. BREAK ROOM	20 A	1	720 VA	900 VA					1	20 A	RECEPT. GENERAL	2
3	OPEN WORK FLOOR BOX	20 A	1			360 VA	360 VA			1	20 A	OPEN WORK FLOOR BOX	4
5	OPEN WORK FLOOR BOX	20 A	1					180 VA	180 VA	1	20 A	OPEN WORK FLOOR BOX	6
7	OPEN WORK FLOOR BOX	20 A	1	180 VA	2340 VA					1	20 A	RECEPT. OPEN WORK	8
9	RECEPT. OFFICE	20 A	1			1260 VA	180 VA			1	20 A	PROJECTOR	10
11	DRINKING FOUNTAIN	20 A	1					180 VA	1080 VA	1	20 A	RECEPT. OFFICE	12
13	WASHER/DRYER	20 A	1	180 VA	180 VA					1	20 A	RECEPT. BATHROOM	14
15	REFRIGERATOR	20 A	1			600 VA	180 VA			1	20 A	RECEPT. KITCHEN	16
17	GARBAGE DISPOSAL	20 A	1					1500 VA	3600 VA	2	20 A	RANGE	18
19	RECEPT. GARAGE	20 A	1	1080 VA	3600 VA					--	--		20
21	RECEPT. GARAGE	20 A	1			1080 VA	300 VA			1	20 A	DOOR ACCESS CONTROL	22
23	WATER HEATER	20 A	2					2250 VA	1789 VA	2	30 A	CU-1	24
25	--	--	--	2250 VA	1789 VA					--	--		26
27	CU-2	35 A	2			2902 VA	2902 VA			2	35 A	CU-3	28
29	--	--	--					2902 VA	2902 VA	--	--		30
31	EXTERIOR RECEPT.	20 A	1	180 VA	1656 VA					1	20 A	F-2	32
33	F-3	20 A	1			1656 VA	864 VA			1	20 A	F-1	34
35	UH-1	15 A	1					1200 VA	1200 VA	1	15 A	UH-2	36
37	GARAGE FAN	20 A	2	759 VA	1271 VA					1	20 A	LIGHTING	38
39	--	--	--			759 VA	1231 VA			1	20 A	LIGHTING	40
41	GARAGE LIGHTING	20 A	1					1776 VA	1776 VA	1	20 A	GARAGE LIGHTING	42
43	FACP	20 A	1	2400 VA	180 VA					1	20 A	Receptacle BREAK ROOM 107	44
45	EXTERIOR LIGHTING	20 A	1			491 VA	746 VA			3	20 A	EF-2	46
47	OVERHEAD DOOR	20 A	1					1200 VA	746 VA	--	--		48
49	OVERHEAD DOOR	20 A	1	1200 VA	746 VA					--	--		50
51	OVERHEAD DOOR	20 A	1			1200 VA	1200 VA			1	20 A	OVERHEAD DOOR	52
53	GENERATOR	20 A	1					600 VA	125 VA	1	20 A	EF-3	54
55	RECEPT. OFFICE	20 A	1	540 VA	1467 VA					1	20 A	COLD STORAGE LIGHTING	56
57	COLD STORAGE RECEPTACLES	20 A	1			540 VA	180 VA			1	20 A	FUEL STATION RECEPTACLE	58
59	EXTERIOR LIGHTING	20 A	1					400 VA	75 VA	1	20 A	EXTERIOR LIGHTING	60
61	MICROWAVE	20 A	1	1200 VA	180 VA					1	20 A	RECEPT. EXTERIOR	62
63	GATE KEYPAD	20 A	1			180 VA	180 VA			1	20 A	EXTERIOR SIGN	64
65	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	68
69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	70
71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	72
73	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	74
75	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	76
77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	80
81	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	82
83	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	84
Total Load:				24464 VA		19019 VA		25039 VA					
Total Amps:				211 A		158 A		216 A					
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Other				18345 VA		100.00%		18345 VA					
Power - General				300 VA		100.00%		300 VA		Total Conn. Load: 65636 VA			
Receptacle				28080 VA		67.81%		19040 VA		Total Est. Demand: 56693 VA			
Power				16563 VA		100.00%		16563 VA		Total Conn.: 182 A			
Lighting				3620 VA		100.00%		3620 VA		Total Est. Demand: 157 A			



HIGHWAY 37



SITE ELECTRICAL PLAN
SCALE 1" = 30'-0"



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KEY NOTES

INDICATED BY SYMBOLS ①, ②, ETC.

1. MOUNT AS HIGH AS POSSIBLE AT STRUCTURE EAVE.
2. MAKE FINAL CONNECTION TO SIGNAGE. VERIFY REQUIREMENTS WITH SIGN INSTALLER.
3. VERIFY LOCATION OF FUEL STATION RECEPTACLE WITH OWNER. NOTE THAT DIESEL FUELING IS NOT A FLAMMABLE LIQUID, AND THEREFORE EXEMPT FROM CLASSIFIED LOCATION REQUIREMENTS PER NATIONAL ELECTRICAL CODE 514.3.
4. PROVIDE (2) 3/4" AND (1) 1-1/2" CONDUITS WITH PULL STRINGS, STUBBED UP AND CAPPED AT STRUCTURAL COLUMN. CONDUITS ARE PROVISIONS FOR FUTURE. VERIFY LOCATIONS WITH OWNER.
5. PROVIDE CONDUIT FOR LOW-VOLTAGE WIRING BY OTHERS FOR SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, DRIVEWAY SENSING LOOPS, KEYPADS, ETC. VERIFY REQUIREMENTS WITH SYSTEM INSTALLER.
6. MAKE FINAL CONNECTION TO MOTORIZED GATE OPERATOR. VERIFY REQUIREMENTS WITH GATE INSTALLER.
7. VERIFY BRANCH CIRCUIT REQUIREMENTS WITH GATE INSTALLER. PROVIDE CONDUCTORS ONE GAUGE SIZE LARGER THAN REQUIRED FOR OVERCURRENT PROTECTION FOR VOLTAGE DROP.



MISSOURI STATE CERTIFICATE OF AUTHORITY: NUMBER A-2018000419
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100% CD
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