

Kanopolis Visitor Center New Construction

Kansas Department of Wildlife & Parks

CONSTRUCTION DOCUMENTS

200 Horsethief Rd, Marquette, KS 67464



PROJECT CONTACTS / DESIGN TEAM

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wbassette@sapa.com

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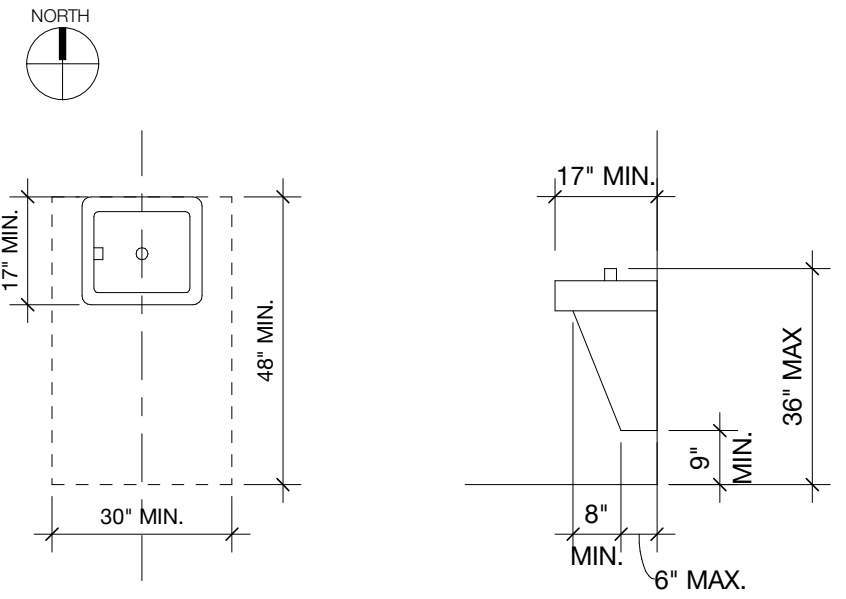
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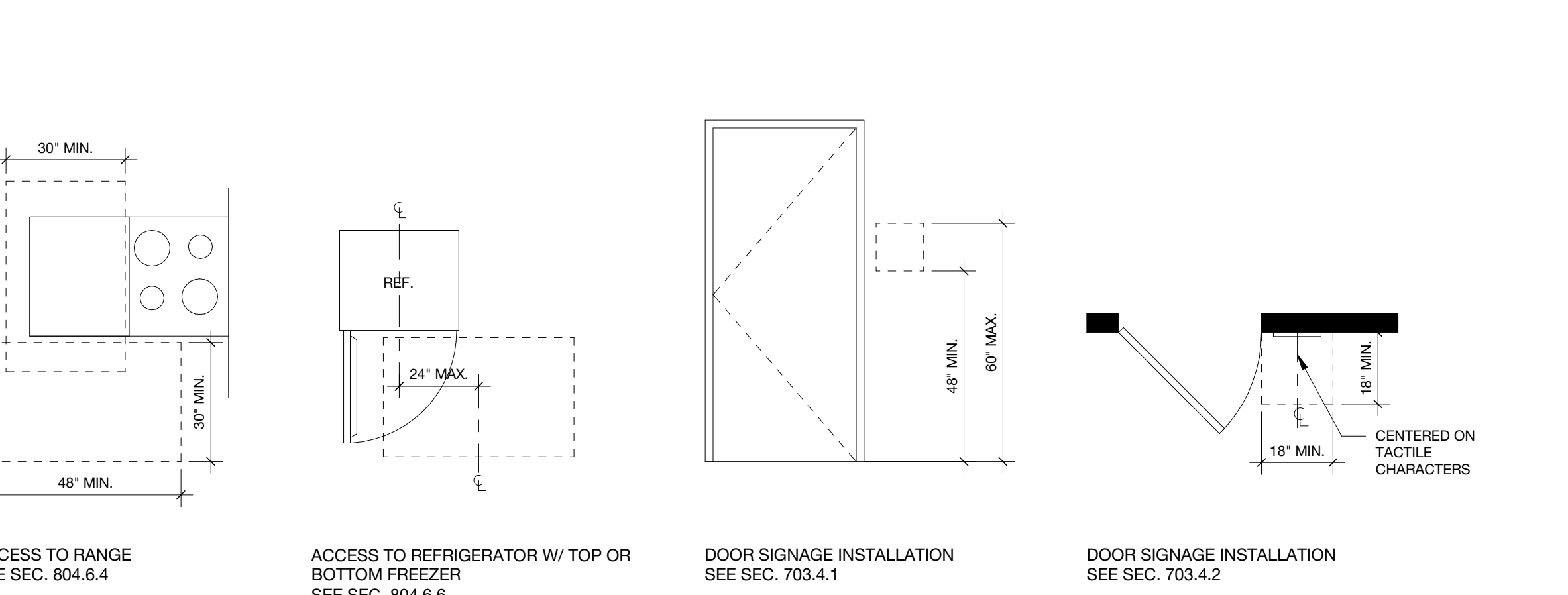
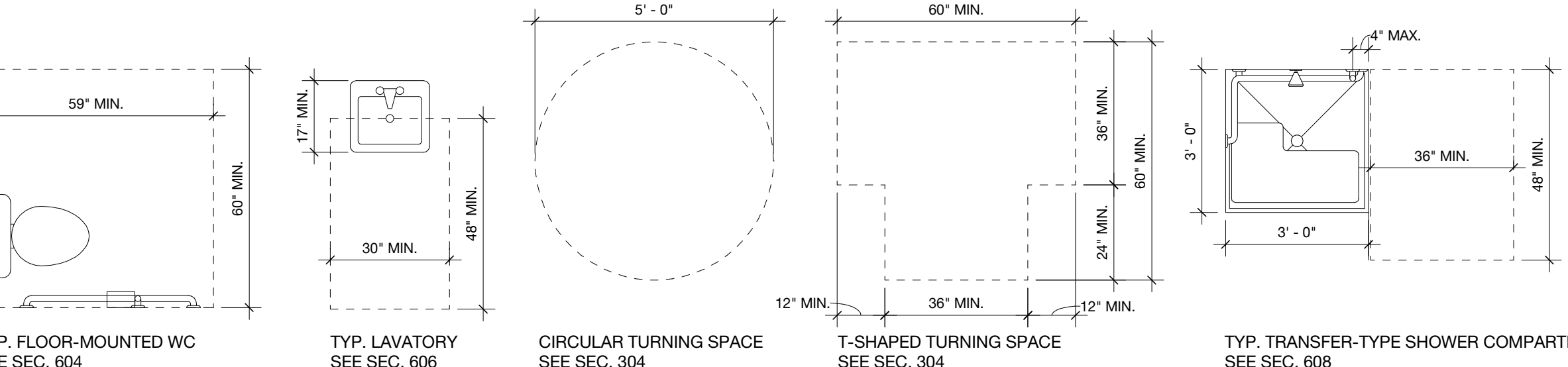
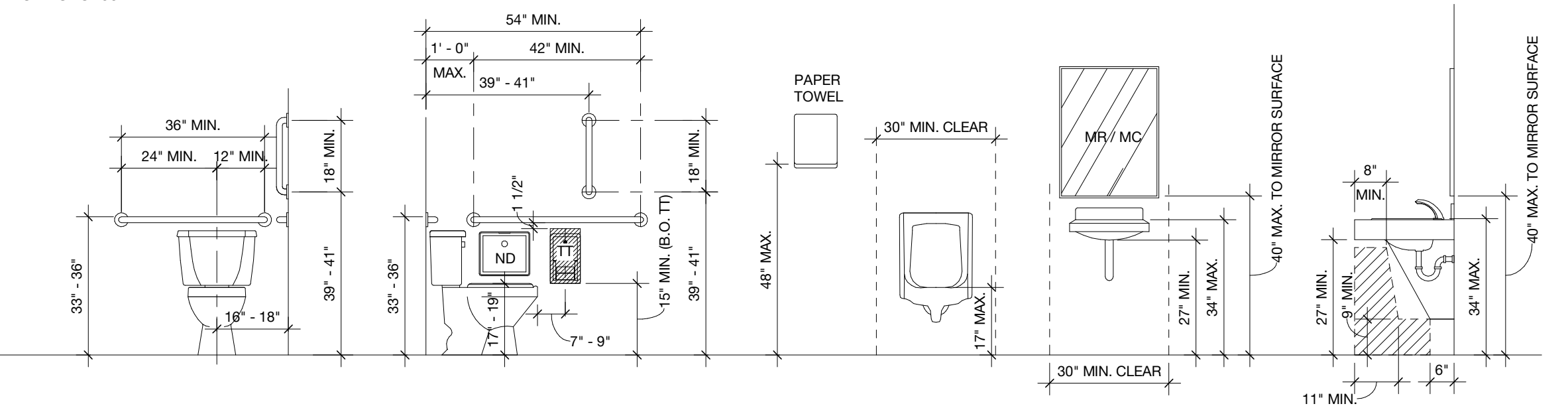
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sabatini
architects

LOCATION MAP:



TYP. DRINKING FOUNTAIN FORWARD APPROACH SEE SEC. 602



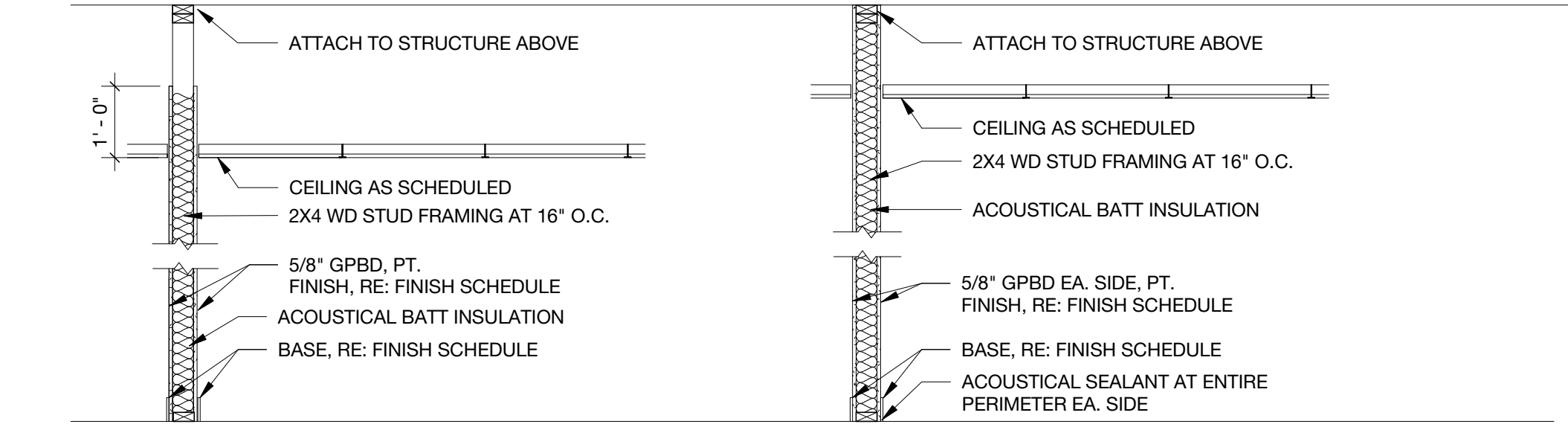
TYPICAL ADA DIMENSIONS 3/8" = 1'-0"

ABBREVIATIONS:

A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINUM
B.O.	BOTTOM OF CONTROL JOINT
C.J.	CENTER LINE
CL.	CEILING
CLNG.	CONCRETE MASONRY UNIT CONSTRUCTION
CMU	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
D.	DEEP
DIA.	DIAMETER
DWG.	DRAWING
EQ.	EQUAL
FIN.	FINISH
F.O.W.	FACE OF WALL
F.V.	FIELD VERIFY
GPBD	GYPSON BOARD
HM	HOLLOW METAL
HORIZ.	HORIZONTAL
HT./HGT.	HIGH/HEIGHT
INT.	INTERIOR
INSUL.	INSULATION
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.T.S.	OPEN TO STRUCTURE
P. LAM	PLASTIC LAMINATE
REF.	REFERENCE
RE.	REFER TO
R.O.	ROUGH OPENING
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
S.F.	SQUARE FEET
STL.	STEEL
S.S.	STAINLESS STEEL
T.	THICK
T.O.	TOP OF
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
W.	WIDE
W.	WIDE
WD.	WOOD

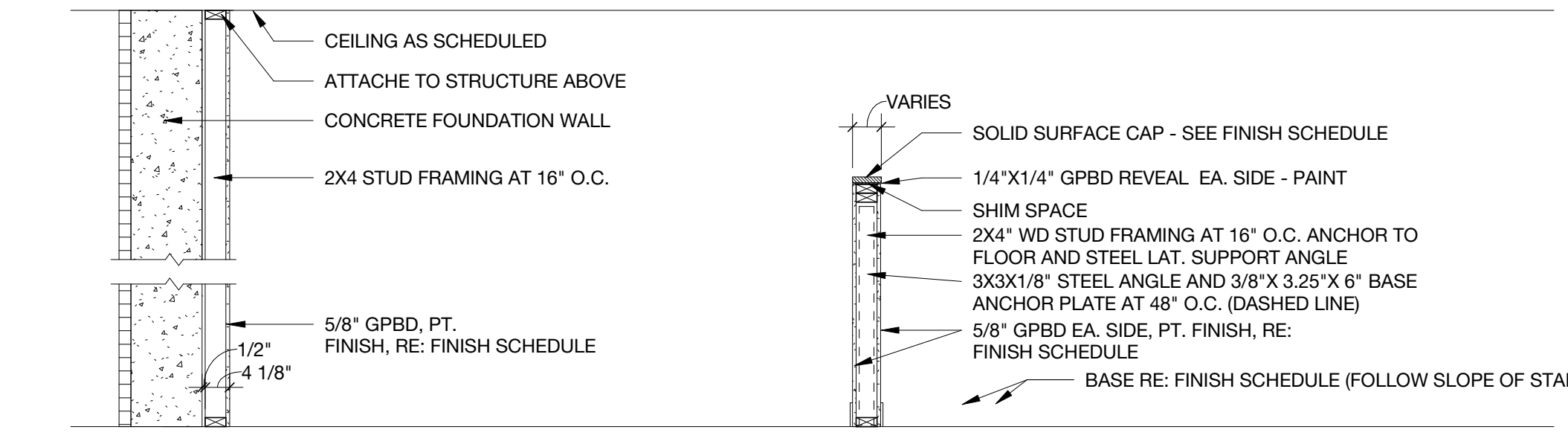
SYMBOLS:

	NEW DOOR AND WALL CONSTRUCTION		ROOM NAME/NUMBER
	EXISTING DOOR AND WALL CONSTRUCTION		DEMOLITION NOTE
	NEW WALL CONSTRUCTION		CONSTRUCTION NOTE
	EXISTING WALL CONSTRUCTION		WALL TYPE
	EXISTING CONST. TO BE REMOVED		BUILDING SECTION MARK
	PROPERTY LINE		WALL SECTION MARK, DETAIL SECTION MARK
	CENTERLINE, ELEVATION LINE		ELEVATION MARK
	COLUMN GRID REFERENCE		CEILING HEIGHT
	EXISTING DOOR IDENTIFICATION		MATCHLINE
	NEW DOOR IDENTIFICATION		DETAIL MARK
	WINDOW IDENTIFICATION, PARTITION TYPE		



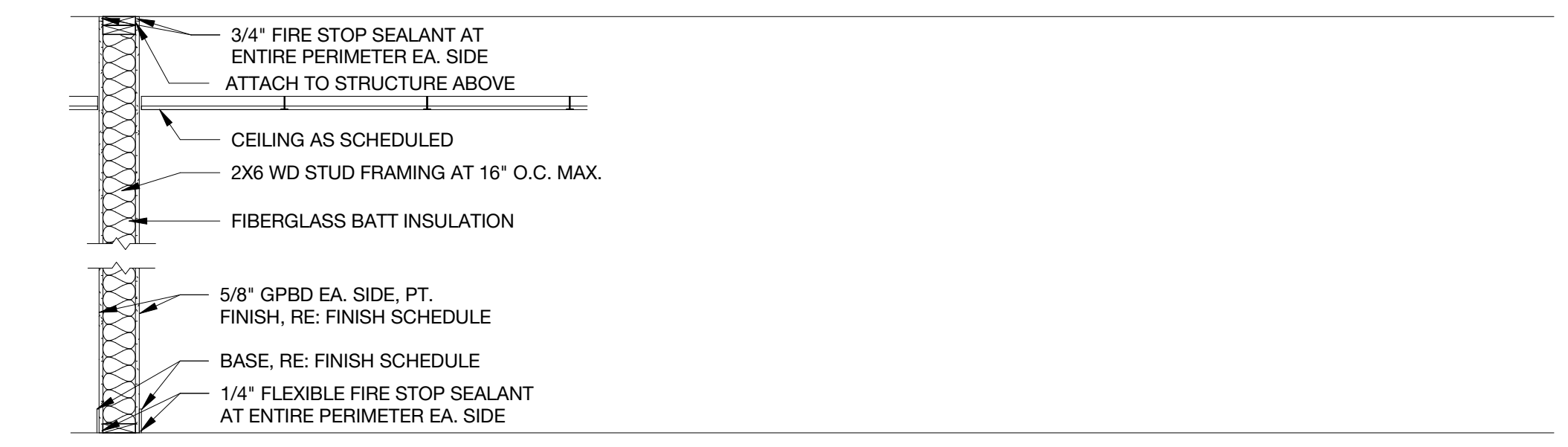
MARK DESCRIPTION	DIM.	RATING	U.L. NO.
A TYPICAL BRACED PARTITION	4-3/4"	N/A	N/A
A.1 2X6 WD STUD IN LIEU OF 2X4	6-3/4"	N/A	N/A
A.2 OMIT GPBD ON ONE SIDE	4-3/4"	N/A	N/A

MARK DESCRIPTION	DIM.	RATING	U.L. NO.
B TYPICAL ACOUSTICAL PARTITION	4-3/4"	N/A	N/A
B.1 2X6 WD STUD IN LIEU OF 2X4 STUD	6-3/4"	N/A	N/A
B.2 OMIT GPBD ON ONE SIDE	4-3/4"	N/A	N/A



MARK DESCRIPTION	DIM.	RATING	U.L. NO.
C TYPICAL FURRING (ALTERNATE)	4-1/8"	N/A	N/A

MARK DESCRIPTION	DIM.	RATING	U.L. NO.
H PARTIAL HEIGHT PARTITION	4-3/4"	N/A	N/A



MARK DESCRIPTION	DIM.	RATING	U.L. NO.
D 1 HR RATED BARRIER	6-3/4"	1 HR	U305

NOTE: ALL PENETRATIONS IN RATED WALL TO BE FIRE CAULKED.

PARTITION TYPES 1/2" = 1'-0"

ADD ALTERNATES:

- ADD ALTERNATE NO. 1:** CARPET MATERIALS AND LABOR FOR ALL CARPET AND WALK OFF CARPET INSTALLATION.
- ADD ALTERNATE NO. 2:** STONE WAINSCOT MATERIALS AND LABOR FOR INSTALLING STONE WAINSCOT AT PERIMETER WALLS OF OFFICE AREA IN LIEU BOARD AND BATTEN SIDING. (COLUMNS AND ENTRY VESTIBULE STONE WAINSCOT ARE BASE BID.) BASE BID IS BOARD AND BATTEN CONCRETE FIBER BOARD EXTENDED TO THE BASE OF OFFICE WALLS WHERE SHOWN AS STONE.
- ADD ALTERNATE NO. 3:** 6" ASPHALT PAVING PER KDOT SPECIFICATIONS ADD MATERIAL AND LABOR TO INSTALL ASPHALT PAVING INSTEAD OF GRAVEL SURFACE. SEE CIVIL DRAWINGS FOR LOCATION, SPECIFICATIONS AND DETAILS.
- ADD ALTERNATE 4:** EXTERIOR PAVING ADD MATERIAL AND LABOR TO INSTALL ALL EXTERIOR PAVING AS DISCRIBED ON THE DOCUMENTS. INCLUDING BASE LAYERS AND REINFORCING.
- ADD ALTERNATE 5:** METAL ROOFING INSTALL METAL ROOFING IN LIEU OF ASPHALT SHINGLES.
- ADD ALTERNATE NO. 6:** BASEMENT PERIMETER WALL ADD 2 X 4 WALL AROUND THE PERIMETER OF THE CONCRETE FOUNDATION (NORTH/EAST/SOUTH) WALL.
- ADD ALTERNATE NO. 7:** LIGHTNING PROTECTION REFER TO SHEET LP101 FOR LIGHTNING PROTECTION DETAILS AND SPECIFICATIONS

GENERAL NOTES:

- CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND SITE CONDITIONS PRIOR TO SUBMITTING A BID.
- THE CONTRACTOR SHALL DELIVER A FINAL PROJECT THAT IS COMPLETE TO THE SATISFACTION OF THE STATE OF KANSAS.
- CONTRACTOR SHALL COMPLETE ALL WORK IN A PROFESSIONAL AND QUALITY MANNER. THE CONTRACTOR SHALL PERFORM THE WORK TO MEET OR EXCEED THE INDUSTRY STANDARDS.
- CONTRACTOR'S BID REPRESENTS A COMPLETE PROJECT THAT MEETS THE CODES AND STANDARDS IDENTIFIED HEREIN.
- THE CONTRACTOR SHALL MAINTAIN FIRE EXTINGUISHERS ON SITE. CONTRACTOR IS RESPONSIBLE FOR SECURING THE BUILDING AND CONSTRUCTION SITE THROUGH TO COMPLETION.
- CONTRACTOR SHALL RETAIN A KDPW THIRD PARTY FOR MATERIAL TESTING AND INSPECTIONS FOR THE FOLLOWING:
 - CONCRETE TESTING FOR FOOTINGS/FOUNDATIONS.
 - INTERIOR AND EXTERIOR SLABS/PAVING AND SIDEWALKS.
 - VERIFICATION OF PLACEMENT OF REINFORCEMENT.
- CONTRACTOR SHALL COORDINATE STATE OF KANSAS INSPECTIONS BY THE STATE INSPECTOR PRIOR TO COVERING WORK, INCLUDING BUT NOT EXCLUSIVELY: SUBBASE, FOUNDATION, STEEL REINFORCEMENT, ELECTRICAL, PLUMBING (BELOW SLAB AND IN WALL FRAMING), AND MECHANICAL.

SUBSTITUTIONS:

- MATERIAL IDENTIFIED ON THE DRAWINGS BY PRODUCT SHALL SET THE MINIMUM MATERIAL, WARRANTY, PERFORMANCE REQUIREMENTS FOR EACH PRODUCT.
- SUBSTITUTIONS SHALL BE EQUAL OR BETTER.
- SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE OR LACK OF FORECASTING LEADTIMES/SCHEDULING OR SIMILAR CIRCUMSTANCES SHALL NOT RESULT IN THE CONSTRUCTION CONTRACT EXTENSIONS OR CHANGE IN COST.
- DOCUMENTATION: SHOW COMPLIANCE WITH REQUIREMENTS FOR SUBSTITUTIONS AND THE FOLLOWINGS, AS APPLICABLE:
 - STATEMENT INDICATING WHY SPECIFIED PRODUCT OR FABRICATION OR INSTALLATION CANNOT BE PROVIDED, IF APPLICABLE.
 - COORDINATION INFORMATION, INCLUDING A LIST OF CHANGES OR REVISIONS NEEDED TO OTHER PARTS OF THE WORK AND TO CONSTRUCTION PERFORMED BY OWNER AND SEPARATE CONTRACTORS, THAT WILL BE NECESSARY TO ACCOMMODATE THE PROPOSED SUBSTITUTION.
- DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF PROPOSED SUBSTITUTION WITH THOSE OF THE WORK SPECIFIED.
- SIGNIFICANT QUALITIES MAY INCLUDE ATTRIBUTES SUCH AS PERFORMANCE, WEIGHT, SIZE, DURABILITY, VISUAL EFFECT, SUSTAINABLE DESIGN CHARACTERISTICS, WARRANTIES, AND SPECIFIC FEATURES AND REQUIREMENTS INDICATED. INDICATED DEVIATIONS, IF ANY, FROM THE WORK SPECIFIED.
 - PRODUCT DATA, INCLUDING DRAWINGS AND DESCRIPTIONS OF PRODUCTS AND FABRICATION AND INSTALLATION PROCEDURES.
 - SAMPLES, WHERE APPLICABLE OR REQUESTED.
 - CERTIFICATES AND QUALIFICATION DATA, WHERE APPLICABLE OR REQUESTED.

SUBMITTALS:

SUBMITTALS ARE REQUIRED FOR REVIEW AND APPROVAL. INCLUDED FOR EACH PRODUCT USED: PRODUCT DATA SHEET, SAMPLE WARRANTY, COMPATIBILITY WITH ADJACENT MATERIAL.

SUBMITTALS FOR PRODUCTS, EQUIPMENT OR MATERIALS THAT ARE EXPOSED SHALL INCLUDE SAMPLES OF FINISHES FROM MANUFACTURER'S FULL LINE OF STANDARD OPTIONS. INITIAL SELECTIONS MAY BE SUBMITTED ELECTRONICALLY. FINAL SELECTIONS WILL NEED PHYSICAL SAMPLES FOR VERIFICATION.

CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLETENESS AND ACCURACY.

SUBMITTALS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR TO THE ARCHITECT FOR DISTRIBUTION TO THE ENGINEERS. REFER TO THE ENGINEERING DOCUMENTS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

ARCHITECTURAL SUBMITTALS ARE REQUIRED FOR THE FOLLOWING BUT NOT LIMITED TO:

- WOOD AND CEMENTUIOUS PRODUCTS
- INSULATION
- DOORS AND FRAMES
- DOOR HARDWARE
- GLAZING/FILM
- FLOORING: CERAMIC TILE, LVT, LVP, CPT, WO, UNDERLAYMENTS
- SHEATHING AND WATER-BARRIER
- ROOFING AND GUTTER/DOWNSPOUT COMPONENTS
- SOLID SURFACE

SHOP DRAWINGS: STOREFRONT & ENTRY SYSTEMS CASEWORK

SAMPLES: ARCHITECTURAL WOODWORK, MATERIAL AND FINISH TRIM WOOD DOORS PAINT/STAIN CERAMIC TILE, LVT, CPT, WO, SOLID SURFACE, PLASTIC LAMINATE METAL ROOFING AND FLASHING COLOR SAMPLES GLASS FILMS



KANSAS DEPARTMENT OF PARKS & WILDLIFE
1020 S. KANSAS, ROOM 200
TOPEKA, KS 66612-1327
(785) 296-2281



Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsemead Rd., Marquette, KS 67464
BUILDING NUMBER 7-1000-2/677
DATE: 9/30/2024 DRAWN BY: Author REV:

ABBREVIATIONS & GENERAL INFORMATION

A-015174

G001

CONSTRUCTION DOCUMENTS

[F] 903.2.11.1 Stories without openings: Compliant
 An automatic sprinkly system shall be installed throughout all stories, including basements, of all buildings where the floor area exceeds 1,500 sf and where the story does not comply with the following criteria for exterior wall openings:

- Openings below grade that lead directly to ground level by an exterior stairway complying with Section 1011 or an outside ramp complying with Section 1012. Openings shall be located in each 50 linear feet, or fraction thereof, of exterior wall in the story on not fewer than one side. The required openings shall be distributed such that the lineal distance between adjacent openings does not exceed 50 feet.
- Openings entirely above the adjoining ground level totaling not less than 20 sf in each 50 linear feet, or fraction thereof, of exterior wall in the story on not fewer than one side. The required opening shall be distributed such that the lineal distance between adjacent openings does not exceed 50 feet. The height of the bottom of the clear opening shall not exceed 44 inches measured from the floor.

[F] 903.2.11.1.3 Basements: Compliant
 Where any portion of a basement is located more than 75 feet from openings required by Section 903.2.11.1, or where walls, partitions or other obstructions are installed that restrict the application of water from hose streams, the basement shall be equipped throughout with an approved automatic sprinkler system.

General Building Limitations (Chpt 5 & 6): Compliant

Frontage Increase (506.3.3)
 Greater than 30' on all sides. Area Increase Factor due to frontage: 75%
 Allowable building area: B 9000 + (9000 x 0.75) = 15,750 sf
 Allowable building area: S-2 13,500 + (13,500 x 0.75) = 23,625 sf

1006.3.3(2) Stories With One Exit or Access to One Exit for Other Occupancies: Compliant
 First story above or below grade plane - S Storage Occupancy, Max. Occupant Load Per Story = 29, Max. Common Path of Egress Travel Distance = 75'.

USE GROUP	OCCUPANTS			TOILET				LAVATORY				D.F.	
	TOTAL	M	F	MALE REQ'D	PROV'D*	FEMALE REQ'D	PROV'D*	MALE REQ'D	PROV'D	FEMALE REQ'D	PROV'D	R.	P.**
BUSINESS B	34	17	17	0.68		0.68		0.11		0.11		0.34	
STORAGE S-2	9	4.5	4.5	0.05		0.05		0.05		0.05		0.01	
TOTAL	43	21.5	21.5	0.73	2	0.73	2	0.16	1	0.16	1	0.35	2

* INCLUDES GENDER NEUTRAL TOILETS AND URINALS
 ** INCLUDES DUAL HEIGHT DRINKING FOUNTAIN

GENERAL INFORMATION		AGENCY OWNER REP INFORMATION:		RESPONDING FIRE DEPARTMENT:	
LOCATION: Kanopolis Visitor Center 200 Horsethief Rd, Marquette, KS 67464		Kansas Department of Wildlife and Parks 1020 S. Kansas Topeka, KS 66612		McPherson County Rural Fire District 2	
ARCHITECT: Sabatini Architects 401 Elm St., Suite B Lawrence, KS 66044		REASON FOR SUBMITTAL: Code footprint for new construction		AUTHORITIES HAVING JURISDICTION: Office of the State Fire Marshal	
PROJECT DESCRIPTION					
New construction of visitor center with main floor consisting of office space. Basement to be used as storage.					
APPLICABLE CODES					
State Law establishes a minimum Life Safety and has a uniform effect throughout the State. KSA 31-133 and KSA 2003 Supp. 31-131 require that all occupied structures conform to the basic life safety requirements. A) Existing occupied buildings cannot have hazardous conditions which slow speedy exits. B) Alteration of existing buildings cannot make existing conditions worse or block exits. C) New construction and changes in use are subject to greater life safety requirements.		2018 - International Building Code 2018 - International Mechanical Code 2018 - International Plumbing Code 2018 - International Fuel Gas Code 2018 - International Energy Code 2018 - NFPA 13 - Install F.S. Systems 2018 - NFPA 72 - F.A. Signaling Code		2018 - International Existing Building Code 2018 - International Fire Code Kansas Fire Prevention Code 2010 Accessibility Standards Kansas State Boiler Code K.S.A. 44-913 ASME A17.1-2022; Safety Code for Elevators	
OCCUPANCY/ STRUCTURAL CLASSIFICATION					
The building has 1 stories including full basement. The floor to floor dimension is 10'-0". The main structure is wood framing with wood pre-engineered truss over the office area. Full basement constructed of concrete slab and foundation walls with steel columns and beams supporting the wood framed first floor. Exterior material is concrete board panels and natural stone veneer. The interior walls are of wood framing. Building not sprinklered.					
BUILDING HEIGHTS AND AREAS					
Allowable		Section 503		Total GSF = 2,735 sq. ft.	
Type V-B/ Occupancy B - 2 Stories not to exceed 40' above grade, 9,000 sf				First Floor = 2,735 sq. ft.	
Type V-B/ Occupancy S-2 - 2 Stories not to exceed 40' above grade, 13,500 sf				Basement = 2,465 sq. ft.	
Actual					
2,735 GSF, 1 story; total building height 23'-8" above grade plane.					
OCCUPANCY TYPE					
B Business		Section 302			
S-2 Storage					
GENERAL BUILDING LIMITATIONS					
Construction Type (IBC) Type V-B		Section 602 Table 601			
STRUCTURAL FIRE RATINGS					
Structural frame including columns, girders & trusses:		0 hr.			
Bearing exterior walls:		0 hr.			
Bearing interior walls:		0 hr.			
Nonbearing exterior walls & partitions:		0 hr.			
Nonbearing interior walls & partitions:		0 hr.			
Floor construction including supporting beams & joists:		0 hr.			
Roof construction including supporting beams & joists:		0 hr.			
ACTIVE LIFE SAFETY SYSTEMS:					
Fire Alarm:		Not Required/Not Provided			
FA Control Panel:		Not Required/Not Provided			
FA Remote Panel:		Not Required/Not Provided			
Smoke Detection:		Not Required/Not Provided			
Mass Notification (MNS):		Not Required/Not Provided			
Exit Signs:		Required/Provided: Battery Backup			
Emergency Lights:		Required/Provided: Battery Backup			
Backup Power:		Not Required/Not Provided			
Suppression Standpipes:		Not Required/Not Provided			
Suppression-Automatic:		Not Required/Not Provided			
Fire Extinguishers:		Required/Provided: Provide in all areas per NFPA 10			
PASSIVE LIFE SAFETY SYSTEMS:					
Corridor ratings:		0 Hr. (Table 1020.1 - corridors serve < 30 occupants)			
Stairwells:		N/A			
Shafts:		1 hr. < 3 stories			
Occupancy Separations:		Not Separated			
Corridor Door Rating:		N/A			
<p>IMPORTANT: ANY DEVIATIONS FROM THIS DOCUMENT MAY RESULT IN THE DELAY OF ISSUING THE CERTIFICATE OF OCCUPANCY. OWNERS AFFECTED BY THIS CODE FOOTPRINT SHALL BE DOCUMENTED BY THE CONSULTANT AND APPROVED BY THE REV.</p> <p>04-10-2024 Revision 10/14/2024</p> <p>DATE 10-15-2024 DATE</p> <p>Kansas Department of Wildlife and Parks OFPM <i>Stephen Jenks</i></p>					

SYMBOL	DESCRIPTION	PROTECTIVE ELEMENTS
	EXIT- EXTERIOR	
	EXIT- INTERIOR (Assembly occ. over 50 and exits from floors.)	
	FIRE EXTINGUISHER	
	HOSE CABINET	
	HOSE CABINET WITH EXTINGUISHER	
	FIRE EXTINGUISHER SPACING (Show Radius)	Show Radius on floor plan.
	NON PROTECTED EXIT PATH	Non-Rated per exception of fully sprinkler protected throughout.
	LIMITED PROTECTION EXIT PATH	Automatic Smoke Detection Throughout Exit Path.
	PROTECTED EXIT PATH	1 Hour Fire Partition wall construction. 20-minute rated door assembly. Fire & Smoke Dampers.
	PROTECTED EXIT PATH (sprinklered R occupancy)	5 Hour Fire Partition wall construction. 20-minute rated door assembly. Fire & Smoke Dampers.
	SPECIAL COVERAGE	Limited Sprinkler Coverage
	1 HOUR EXIT PASSAGEWAY	1-hour Fire Barrier wall construction. No openings other than required exit doors. 1-hour door assembly.
	2 HOUR EXIT PASSAGEWAY	2-hour Fire Barrier wall construction. No openings other than required exit doors. 1 1/2-hour door assembly.
	1 HOUR EXIT ENCLOSURE (vertical) (stairwell- 3 stories)	1-hour Fire Barrier wall construction. No openings other than required exit doors. 1-hour door assembly.
	2 HOUR EXIT ENCLOSURE (vertical) (stairwell- 4 stories or more)	2-hour Fire Barrier wall construction. No openings other than required exit doors. 1 1/2-hour door assembly.
	1 HOUR FIRE BARRIER (Occupancy and Incidental Use Areas)	1-hour Fire Barrier wall construction. 34-hr. rated door assembly, Fire Dampers. (edit Fire Damper requirement as necessary for sprinklered buildings)
	2 HOUR FIRE BARRIER (Occupancy)	2-hour Fire Barrier wall construction. 1 1/2-hour rated door assembly. Fire Dampers.
	3 HOUR FIRE BARRIER (Occupancy)	3-hour Fire Barrier wall construction. 3-hour rated door assembly. Fire Dampers.
	4 HOUR FIRE BARRIER (Occupancy)	4-hour Fire Barrier wall construction. 3-hour rated door assembly. Fire Dampers.
	2 HOUR FIRE WALL (Building Separation)	2-hour Fire Wall construction per IBC 705. 1 1/2-hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
	3 HOUR FIRE WALL (Building Separation)	3-hour Fire Wall construction per IBC 705. 3-hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
	4 HOUR FIRE WALL (Building Separation)	4-hour Fire Wall construction per IBC 705. 3-hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
	1 HOUR SHAFT (3 stories or less)	1-hour Fire Barrier wall construction. 1-hour door assembly. Firesmoke Dampers.
	2 HOUR SHAFT (4 stories or more)	2-hour Fire Barrier wall construction. 1 1/2-hour door assembly. Firesmoke Dampers.
	SPRINKLERED INCIDENTAL USE AREAS	Wall construction to resist the passage of smoke from floor to floor to F.R. floor/ceiling assembly. Self or automatic closing doors with no air transfer grilles.
	FIRE PARTITIONS (dwelling/unit separation) (1-1 and R occupancies)	1-hour resistive rated walls. 34-hour rated door assembly. Fire Dampers.
	SMOKE BARRIERS (1-2 and 1-3 occupancies)	1-hour resistive rated walls. 20-minute rated door assembly. Smoke Dampers.
	ACCUMULATED EXIT WIDTH AT REQUIRED EXIT (clear width)	Occupants/Required width Provided Width
	PUBLIC FIRE HYDRANT (Show distance from building)	
	ROOM DESIGNATION	Room type/Occupancy Type Maximum Allowable Occupants
	SHOW ACCUMULATED OCCUPANT LOADS FOR COMPLEX EXIT PATHS	
	NEW CONSTRUCTION	
	EXISTING CONSTRUCTION	
	1 HOUR TEMPORARY CONSTRUCTION BARRIER	One (1) layer 5/8" ggbid each side on metal studs 24" o.c. Do not tape & sand or install sealant at perimeter of barrier.

PROJECT NO: A-015174
 PROJECT TYPE: New Construction
 APPROVED BY: [Signature]

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Kansas Department of Wildlife and Parks
 Enter Project Name
 200 Horsethief Rd, Marquette, KS 67464
 New Construction
 BLDG# 71000-27677

CHECKED BY: DS
 DRAWN BY: LW
 DATE: 4/15/2024

DANIEL M. SABATINI
 LICENSED ARCHITECT
 4286

CF2

CONSTRUCTION DOCUMENTS

Kansas
 Department of
 Wildlife and Parks

DANIEL M. SABATINI
 LICENSED ARCHITECT
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 Eaton

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 STRUCTURAL ENGINEERS
 905 S. Kansas Avenue, Suite 400
 Topeka, Kansas 66612
 Phone: (785)291-0000
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LS&A
 Latimer Sommers
 & Associates, P.A.

PROJECT NO: A-015174
 PROJECT TYPE: New Construction
 APPROVED BY: [Signature]

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Kansas Department of Wildlife and Parks
 Enter Project Name
 200 Horsethief Rd, Marquette, KS 67464
 New Construction
 BLDG# 71000-27677

CHECKED BY: DS
 DRAWN BY: LW
 DATE: 4/15/2024

DANIEL M. SABATINI
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CF1

CONSTRUCTION DOCUMENTS

Kansas Department of Wildlife & Parks
 Kanopolis Visitor Center
 New Construction

200 Horsethief Rd, Marquette, KS 67464
 BUILDING NUMBER 71000-27677

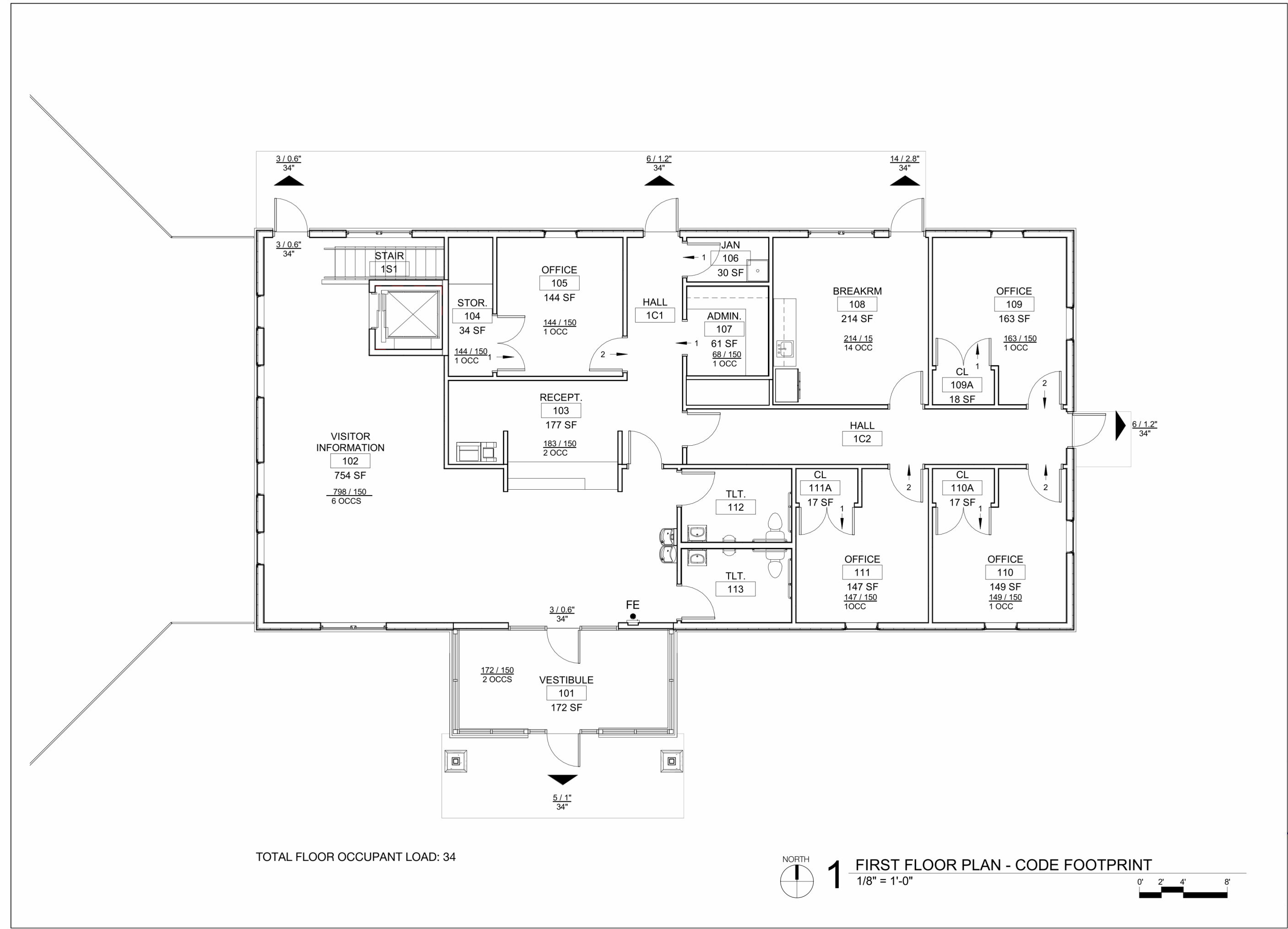
DATE: 9/30/2024 DRAWN BY: Author REV:

CODE ANALYSIS

A-015174

G002

CONSTRUCTION DOCUMENTS



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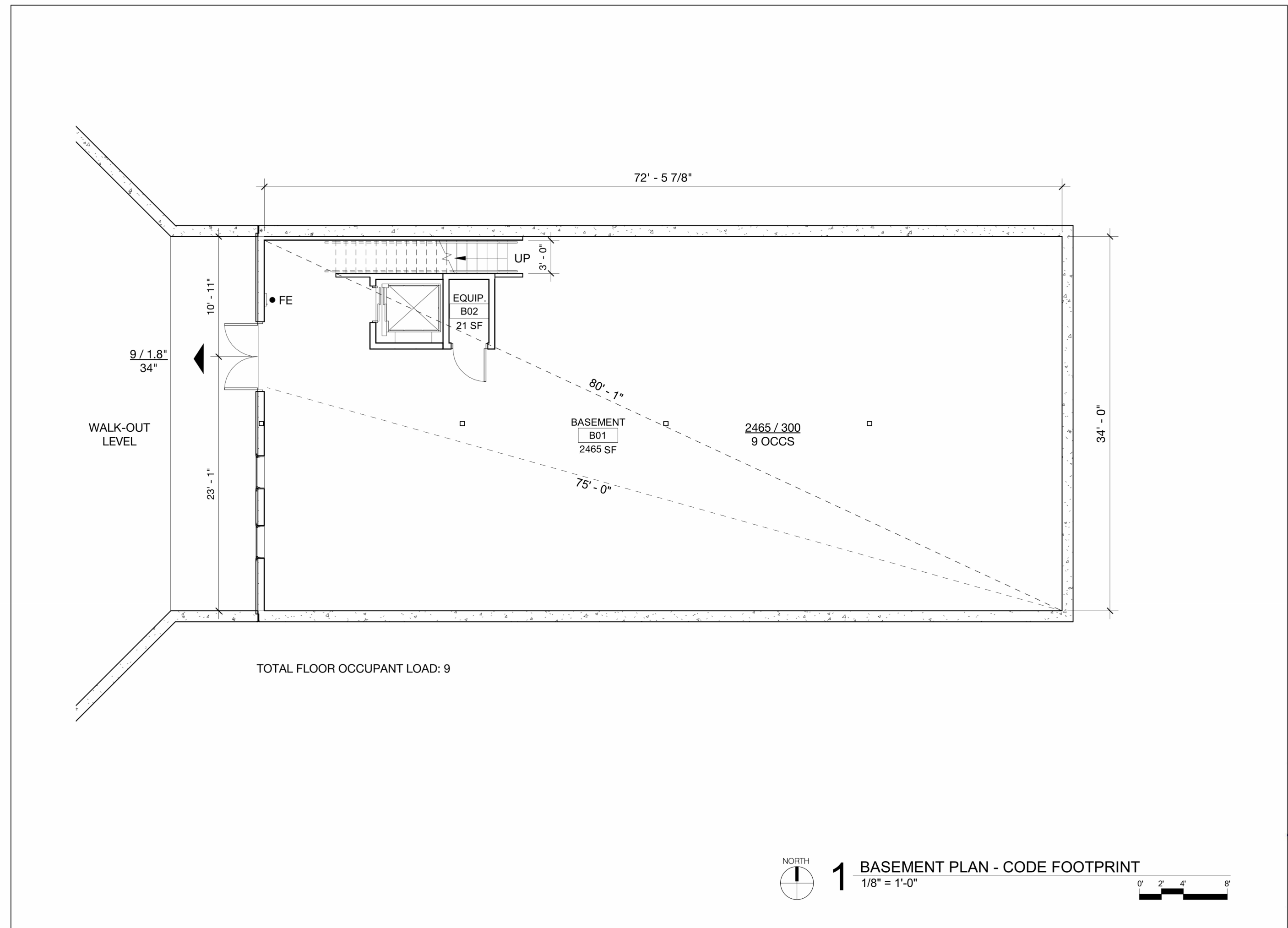
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4286
STATE OF KANSAS

CF4
CONSTRUCTION DOCUMENTS



PROJECT NO: A-015174
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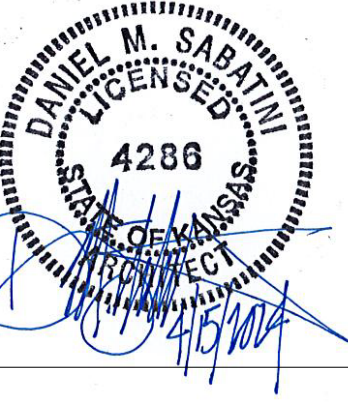
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CF3
CONSTRUCTION DOCUMENTS



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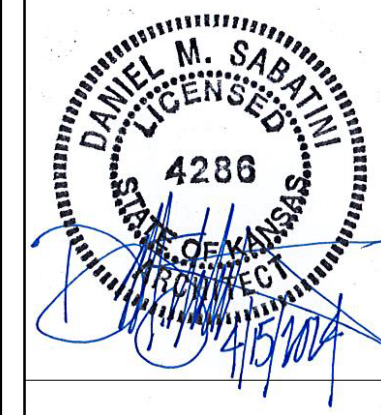


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BUILDING NUMBER 71000-27677
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CODE ANALYSIS
A-015174
G003
CONSTRUCTION DOCUMENTS

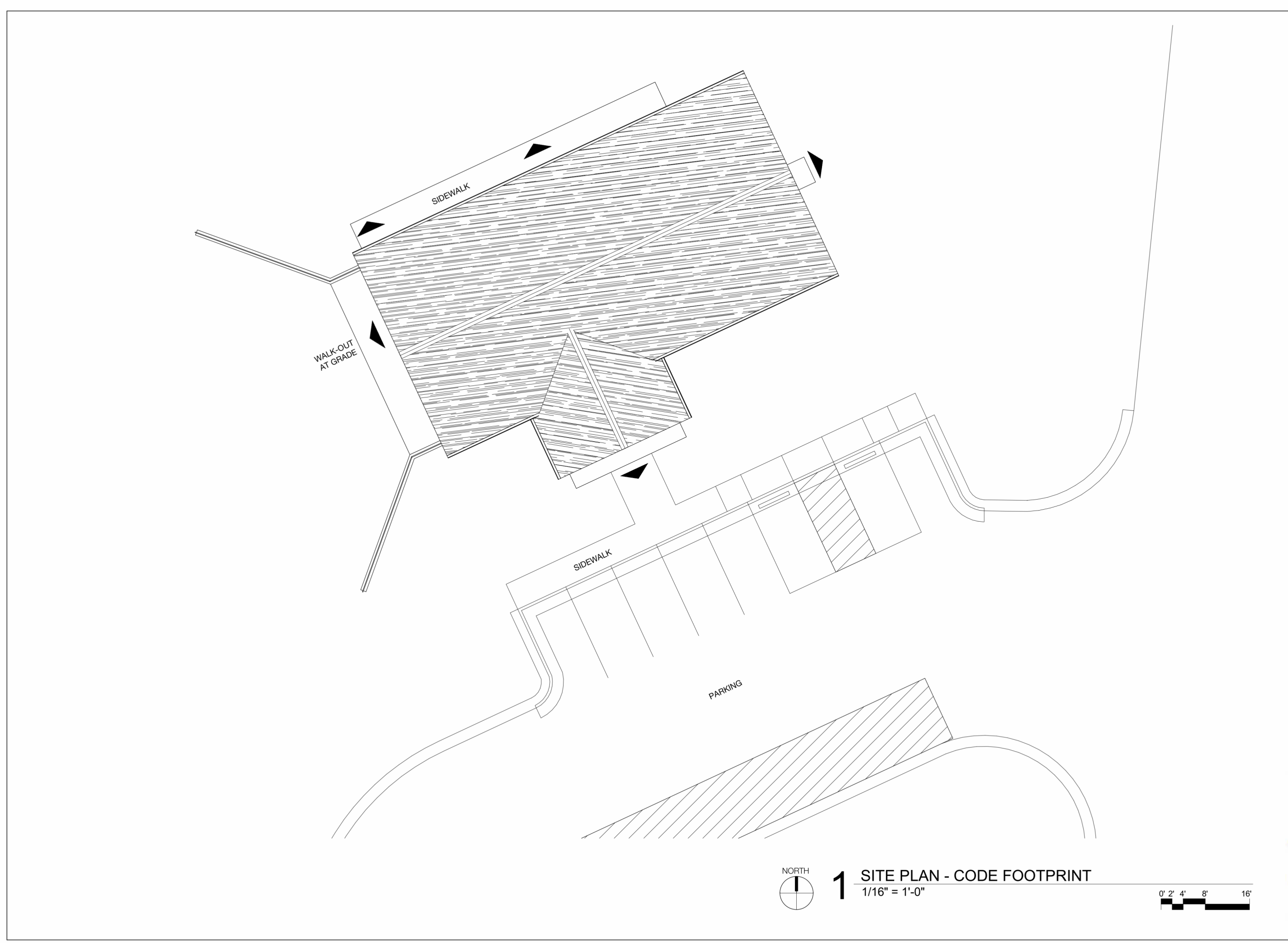


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<p>PROJECT NO: A-015174</p> <p>PROJECT TYPE: New Construction</p> <p>APPROVED BY:</p>	
<p>sabatini architects 401 Elm Street, Suite B Lawrence, KS 66044 o. 785.331.3399 f. 785.331.0848 www.sabatiniarchitects.com</p>	
<p>Kansas Department of Wildlife and Parks Enter Project Name 200 Horsethief Rd, Marquette, KS 67464 New Construction BLDG# 71000-27677</p>	<p>DATE: 4/15/2024</p> <p>DRAWN BY: LY</p> <p>CHECKED BY: DS</p> <p>REV:</p>
<p>DANIEL M. SABATINI LICENSED 4288 STATE OF KANSAS Professional Engineer</p>	
<p>CF5 CONSTRUCTION DOCUMENTS</p>	

Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
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DATE: 9/30/2024 DRAWN BY: Author REV:

CODE ANALYSIS

A-015174

G004

CONSTRUCTION DOCUMENTS

LIMITED-USE/LIMITED-APPLICATION PASSENGER ELEVATORS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Passenger Elevators:
1. Drive: Roped hydraulic passenger elevators.

1.2 RELATED SECTIONS

- A. Cast-in-Place Concrete. Concrete for elevator machine foundation, and pit and required sleeves for service penetrations.
B. Rough Carpentry.
C. Waterproofing: Pit waterproofing.
D. Gypsum Board Assemblies: Gypsum shaft walls and fire rated assemblies.

1.3 REFERENCES

- A. American Disabilities Act (ADA): ADAAG - Americans with Disabilities Act, Architectural Guidelines.
B. American Society of Mechanical Engineers (ASME): ASME A17.1 - Section 5.2 Safety Code for Elevators and Escalators, Limited-Use/Limited Application Elevators.
C. National Fire Protection Association: NFPA 70 - National Electric Code.
D. International Code Council (ICC): ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities.

SUBMITTALS

- A. Product Data: Manufacturer's data sheets on elevators, including:
1. Manufacturer's installation instructions, including preparation, storage and handling requirements.
2. Including complete description of performance and operating characteristics.
3. Show maximum and average power demands.
4. Storage and handling requirements and recommendations.
B. Shop Drawings:
1. Show typical details of assembly, erection, and anchorage.
2. Include wiring diagrams for power, control, and signal systems.
3. Show complete layout and location of equipment, including required clearances and coordination with hoistway.
C. Selection Samples: For each finish product specified, one sample of each color or finish.
D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
E. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment of cable tension and periodic cleaning and maintenance of all railing and infill components.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Firm with minimum 10 years' experience in manufacturing of elevators, with evidence of experience with similar installations of type specified.
B. Installer Qualifications: Licensed to install equipment of this scope, with evidence of experience with specified equipment. Installer shall maintain an adequate stock of replacement parts, have qualified people available to ensure fulfillment of maintenance and callback service without unreasonable loss of time in reaching project site.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to start of work of this section.
B. Review hoistway, electrical, fire alarm and other requirements with appropriate representatives.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
B. Store components off the ground in a dry covered area, protected from adverse weather conditions.
C. Do not use elevator for hoisting materials or personnel during construction period.

1.7 WARRANTY

- A. Standard Warranty: A two-year limited warranty covering replacement of defective parts and excluding labor. Preventive maintenance agreement required.

1.8 MAINTENANCE SERVICE

- A. Service and maintenance for elevator system and components for two (2) year period from Date of Substantial Completion.
B. Include systematic examination, adjustment, and lubrication of elevator equipment. Repair or replace parts whenever required. Use parts produced by manufacturer of original equipment. Replace wire ropes when necessary to maintain required factor of safety.
C. Provide emergency call back service for this maintenance period.
D. Perform maintenance work using competent and qualified personnel approved by elevator manufacturer or original installer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Manufacturer Garaventa Lift; United States, Phone 800-663-6556. Email: productinfo@garaventalift.com;
B. Approved manufacturers: Savaria Corporation. Cibes Symmetry. RAM ELEVATORS + LIFTS INC.
C. Requests for substitutions will be considered in accordance with provisions of the project manual and bidding requirement.

2.2 PERFORMANCE AND DESIGN REQUIREMENTS

- A. Passenger Elevators are to be in Compliance with the Following:
1. ASME A17.1 - Safety Code for Elevators and Escalators, Limited-Use/Limited Application Elevators.
2. ASME A17.5 - Elevator and Escalator Electrical Equipment.
3. NFPA 70 - National Electric Code.
B. ADA: Provide passenger elevator in accordance with the requirements of Americans with Disabilities Act.

2.3 PASSENGER ELEVATORS (LULA)

- A. Basis of Design: Garaventa Evoron LULA Hydraulic and Electric Elevator.
1. Capacity: 1,400 pounds (635 kg).
2. Car Size: Maximum of 18 sq ft (1.67 sq m).
a. Style 1R: 48 x 54 inches (1220 x 1372 mm) with one side right sliding doors.
3. Travel: As indicated on the Drawings.
4. Stops: 2
5. Speed: Nominal 30 ft per min (0.15 m/sec).
6. Pit Depth: Minimum depths required.
a. Hydraulic Drive: 14 inches (355 mm).
7. Total Overhead Clearance (Refuge Space):
a. Hydraulic Drive: 135 inches (3330 mm) above finished upper landing floor.
8. Drive System: 1:2 Cable Hydraulic.
a. Heavy Duty car sling.
b. Roller guide shoes running on 8 lbs per ft steel T-rails.
c. Quiet submersed pump and motor.
d. Factory pre-set and tested 2-speed valve for smooth start and stop.
e. Electronic Control Box Location: Machine room.
f. Safety Features:
1) Emergency back-up power with manual lowering device.
2) Safety brake system.
3) Car operator with integral gate switch.
4) Automatic bi-directional floor leveling.
5) Emergency alarm button in car, Emergency keyed stop switch in car.
6) Final limit switch.
7) Overspeed valve.
8) Low oil protection timer circuit.
9. Power Requirements: Per manufacturer's shop drawings.
a. A Separate 115 Volt, 15 Amp Circuit is required for car lighting.

10. Controls:

- a. Garaventa-Design PLC Controller with integrated self-diagnostics or equal.
b. Fully automatic push button at car and landings with Braille markings.
c. Automatic car light switch upon entry.
d. Digital floor indicator in car.
e. Car arrival lanterns in car door jamb.
f. Arrival gong.
11. Car and Hoistway Doors (W x H): Nominal 36 x 80 inch (914 x 2032 mm).
a. Two-speed.
b. Horizontal sliding.
12. Standard Features:
a. Car direction lantern comes with audio and visual signals.
b. Full height photo-electric door sensors.
c. Automatic home park feature; can be disengaged during installation if desired.
13. Options:
a. Keyed hoistway access on all levels.
14. Machine Location: As indicated on the Drawings.

2.4 CAB DESIGN

- A. Interior Walls: Laminate panel sections.
1. Color: Dove Gray.
B. Cab Frame:
1. Stainless steel.
C. Ceiling Finish:
1. Mild steel. Powder coated white.
D. Handrail Finish:
1. Stainless Steel: Brushed.
E. Car Operating Panel Finish:
1. Stainless Steel: Brushed.
F. Floor: Unfinished plywood.
1. Floor Finish: By others.
G. Lighting: Four recessed L.E.D. down lights.
H. Trim:
1. Color: White.
I. Car Direction Lantern: Auto and visual signaling device indicating direction of travel and arrival at selected floor.
J. Car Doors: Two speed horizontal sliding.
1. When Opened (W x H): 36 x 80 inch (915 x 2032 mm) clearance.
2. Sensors: Full height photo-electric door sensors.
3. Finish: Stainless steel. Brushed.
2.5 HOISTWAY ENTRANCES
A. Hoistway Entrances: Two speed horizontal doors.
1. When Open (W x H): 36 x 80 inch (915 x 2032 mm) clearance.
2. Sensors: Full height photo-electric door sensors.
3. Finish: Stainless steel. Brushed.
B. Hall Call Stations:
1. Push Button: Keypad.
2. Finish: Stainless Steel. Brushed.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until preliminary work including hoistway, landings and machine space has been properly prepared.
B. Verify the Following:
1. Hoistway is constructed in accordance with ASME17.1 /CSA B-44 and local codes.
2. Hoistway and machine room environments have a maintainable temperature between 50 and 90 degrees F (15 and 32 degrees C) and between 5 and 90 percent non-condensing.
3. Machine Room is provided with lighting, light switch and convenience outlet and conforms to CEC/NFPA and clear space requirements and local codes.
4. Hoistway shaft and openings are of correct size and within tolerance.
5. Electrical power is available and of correct characteristics.
C. If preliminary work is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install elevator in accordance with applicable regulatory requirements including ASME A17.1 /CSA B-44 and the manufacturer's instructions.
B. Install system components and connect to building utilities.
C. Accommodate equipment in space indicated.
D. Startup equipment in accordance with manufacturer's instructions.
E. Adjust for smooth operation.

3.4 FIELD QUALITY CONTROL

- A. Perform tests in compliance with ASME A17.1 /CSA B-44 and as required by authorities having jurisdiction.
B. Schedule tests with agencies and Architect, Owner, and Contractor present.

3.5 FIELD SERVICES

- A. Obtain required permits to perform tests. Perform tests required by regulatory agencies.
B. Schedule tests with agencies and Architect and Contractor present.
C. Submit test and approval certificates issued by jurisdictional authorities.

3.6 ADJUSTING

- A. Adjust for smooth acceleration and deceleration of car so not to cause passenger discomfort.
B. Adjust automatic floor leveling feature at each floor to provide stopping zone of 1/4 inch (6 mm).

3.7 CLEANING

- A. Remove protective coverings from finished surfaces.
B. Clean surfaces and components ready for inspection.

3.8 PROTECTION

- A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

ALUMINUM GUARDRAIL:

- 1. 42" H. GUARDRAILS: PROVIDE DELEGATED DESIGN AND ENGINEERING, LABOR, MATERIAL, EQUIPMENT, AND RELATED SERVICES, INCLUDING, BUT NOT LIMITED TO, MANUFACTURING, FABRICATION, ERECTION, AND INSTALLATION FOR ALUMINUM HANDRAILS AND RAILINGS AS REQUIRED FOR THE COMPLETE PERFORMANCE OF THE WORK, AND AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL WORK TO COMPLY WITH CODES. BASIS OF DESIGN: HANSEN ARCHITECTURAL SYSTEMS, INC. 800-599-2965, WWW.ALUMINUMRAILING.COM. RAILING COMPONENTS: EXTRUDED ALUMINUM COMPONENTS; PROVIDE MANUFACTURER'S STANDARD EXTRUDED ALUMINUM COMPONENTS AS FOLLOWS:
A. STANDARD POST: 2.376 INCHES (60.35 MM) BY 2.376 INCHES (60.35 MM) WITH RADIUS CORNER, 0.100 INCH (2.54 MM) WALL THICKNESS.
B. BOTTOM RAIL: 1.6926 INCHES (42.99 MM) HIGH BY 1.676 INCHES (43.57 MM) WIDE WITH A 0.765 INCH (19.43 MM) WIDE POCKET ON THE TOP AND AN OPEN BOTTOM. ALUMINUM HANDRAILS AND RAILINGS 05 52 00- 7 08/17/16 PICKET: 0.750 INCHES (19.05 MM) BY 0.750 INCHES (19.05 MM), 0.062 INCH (1.57 MM) WALL THICKNESS.
C. TOP RAIL: CIRCULAR CROSS SECTION, RADIUS AS INDICATED ON THE DRAWINGS OR, IF NOT INDICATED, AS SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S STANDARDS WITH AN OPEN BOTTOM, 0.0866 INCH (2.20 MM) WALL THICKNESS.
D. ALUMINUM FINISH MATERIAL: POLYESTER POWDER COATING, 3.0 MIL (0.076 MM), COMPLY WITH AAMA 2605, INCLUDING, BUT NOT LIMITED TO, AVERAGE FILM THICKNESS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS:
a. "IPC-440 SERIES," FORREST PAINT CO.
b. "SERIES 75," TIGER DRYLAC U.S.A., INC.
COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE OF STANDARD COLORS AND FINISHES.
E. ADA COMPLIANT STAIR HANDRAIL WITH EXTENSIONS AND GRIPPING CIRCUMFERENCE.

ASPHALT SHINGLE ROOFING:

- 1. ASPHALT SHINGLE ROOFING: BASIS OF DESIGN IS TIMBERLINE® AS II MANUFACTURED BY GAF. PRODUCT DETAILS
A. FIBERGLASS ASPHALT CONSTRUCTION
B. DIMENSIONS (APPROX.): 13 1/4" X 39 3/8" (337 X 1,000 MM)
C. EXPOSURE: 5 5/8" (143 MM)
D. BUNDLES/SQUARE: 3
E. PIECES/SQUARE: 64
F. STAINGUARD PLUS™ ALGAE PROTECTION
G. LIMITED WARRANTY
H. HIP/RIDGE: SEAL-A-RIDGE® AS
I. STARTER: PRO-START®; QUICKSTART®; WEATHERBLOCKER MEETING NATIONAL STANDARDS AND PROTOCOLS (UL 2218 CLASS 4 IMPACT-RESISTANCE TEST, FIRE - UL LISTED TO ANSI/UL 790 CLASS A, WIND - ASTM D7158, CLASS H, WIND - ASTM D3161, CLASS F, NATIONAL - ASTM D3018, TYPE 1, NATIONAL - ASTM D3462, AND NATIONAL - CLASSIFIED IN ACCORDANCE WITH ICC-ES AC438).
K. COLOR: CHARCOAL
2. BASIS-OF-DESIGN FOR UNDERLAYMENT: DECK-ARMOR™ PREMIUM BREATHABLE ROOF DECK PROTECTION (16 PERMS) PRIOR TO INSTALLING ROOFING. INTEGRATE APPLICATION OF EAVE AND RAKE FLASHING. AT EAVES AND WHERE ICE DAMS CAN BE EXPECTED, USE ONE LAYER OF GAF LEAK BARRIER. EAVE FLASHING MUST EXTEND 24" (610 MM) BEYOND THE INSIDE WALL LINE.
3. FLASHING: PIPE BOOTS AND TRIMS: INSTALL FLASHING AND TRIM AS RECOMMENDED BY MANUF. IN COMPLIANCE WITH REQUIREMENTS AND RECOMMEND DETAILS. THE COLOR FOR BOTH ROOF AND TRIM AS SELECTED BY ARCHITECT FROM MANUF. STANDARD PVDF KYNAR
4. VENT FOR ROOF RIDGE: BASIS-OF-DESIGN GAF COBRA RIDGERUNNER EXHAUST VENT FOR ROOF RIDGE.

METAL ROOFING: ALTERNATE

- 1. STANDING SEAM METAL ROOFING: BASIS OF DESIGN IS IMAGE II SERIES - MINOR RIBS, 0.0236-INCH (0.60-MM) OR 24 GA. THICKNESS (12" COVERAGE AND 1" PANEL DEPTH) W/ CONCEALED CLIP OVER HIGH TEMPERATURE SELF-ADHERING SHEET UNDERLAYMENT AND FELT UNDERLAYMENT AS REQUIRED. APPLY SLIP SHEET OVER UNDERLAYMENT PRIOR TO INSTALLING METAL ROOF PANELS. INSTALL FLASHING AND TRIM AS RECOMMENDED BY MANUF. IN COMPLIANCE WITH REQUIREMENTS AND RECOMMEND DETAILS. THE COLOR FOR BOTH ROOF AND TRIM AS SELECTED BY ARCHITECT FROM MANUF. STANDARD PVDF KYNAR 300 FINISH METAL SALES MANUFACTURING CORPORATION 545 SOUTH 3RD STREET, SUITE 200 LOUISVILLE, KY 40022 1.800.406.7387.
2. VERTICAL BOARD AND BATTEN: BASIS OF DESIGN PRE-PRIMED HARDIE PANEL VERTICAL SIDING FIBER CEMENT BOARD THICKNESS: 0.312" LENGTH: 120" WIDTHS: 48" WITH PRE-PRIMED HARDIE TRIM BOARDS 1" X 5.5" SMOOTH INSTALL TRIM BOARD AT 16" O.C. AND AT HEAD AND JAMBS OF OPENINGS. SECURE TO SHEATHING WITH MANUFACTURER'S RECOMMENDATIONS, PAINT FINISH. REFER TO ELEVATIONS FOR OTHER LOCATIONS. PRODUCTS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS INC. COLOR SELECTION: SHERWIN WILLIAMS, SW 7075, WEB GRAY

SPRAY FOAM INSULATION

- 1. CLOSED CELL SPRAY FOAM: BASIS-OF-DESIGN IS CARLSLE SEALTITE PRO CLOSED CELL TWO-COMPONENT, MEDIUM DENSITY, ONE TO ONE BY VOLUME SPRAY APPLIED POLYURETHANE FOAM. INSULATION SYSTEM DESIGNED FOR USE IN COMMERCIAL APPLICATIONS. MANUFACTURED BY CARLSLE, 100 ENTERPRISE DRIVE, CARTERSVILLE, GA 30120, 844.922.2355 HTTPS://WWW.CARLSLESPI.COM/
2. INSULATING R-VALUE: AS NOTED. THICKNESS TO ACHIEVE A MIN. R-38.
3. POLYURETHANE FOAM SYSTEMS SHOULD BE PROCESSED THROUGH COMMERCIALY AVAILABLE SPRAY EQUIPMENT DESIGNED FOR THAT PURPOSE BY A QUALIFIED PROFESSIONAL APPLICATOR.
4. IT IS THE RESPONSIBILITY OF THE PROFESSIONAL APPLICATOR TO THOROUGHLY UNDERSTAND ALL EQUIPMENT TECHNICAL INFORMATION AND SAFE OPERATING PROCEDURES THAT PERTAIN TO A SPRAY POLYURETHANE FOAM APPLICATION.
5. FLAME SPREAD: ASTM E84, CLASS 1 < 25
6. SMOKE DEVELOPMENT: ASTM E84, CLASS 1 < 450

BATT INSULATION

- 1. WALL BATT INSULATION FOR WALLS AND ROOF: FOR WALLS USE 5 1/2" MIN. TO ACHIEVE A R-20 UNFACED BATT INSULATION FULLY FILL STUD SPACE.
2. ROOF ATTIC: FOR ROOF ATTIC ALONG BOTTOM CORD USE MIN. R-38 BLOW-IN FIBERGLASS INSULATION AT TRUSS LOCATIONS. FIBERGLASS MANUFACTURED BY OWENS CORNING, JOHNS MANVILLE, OR APPROVED EQUAL.
3. SPRAY INSULATION FOR MISCELLANEOUS VOIDS AND BTWN VESTIBULE RAFTER FRAMING:
A. SPRAY POLYURETHANE FOAM INSULATION: ASTM C1029, TYPE II, CLOSED CELL, WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 75 AND 450.
B. VESTIBULE RAFTER FRAMING TO BE MIN. R-38

VAPOR BARRIER OR RETARDER

- 1. UNDERSLAB VAPOR BARRIER BASIS-OF-DESIGN: PERMINATOR 15 MIL BY W.R. MEADOWS OR APPROVED EQUAL.
A. 15 MIL MAXIMUM PERMEANCE ASTM E98: 0.018 PERMS
B. TESTING - ASTM E1745 STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS
C. ACCESSORIES
a. SEAM AND PERIMETER TAPE: HIGH DENSITY POLYETHYLENE TAPE WITH PRESSURE SENSITIVE ADHESIVE. MINIMUM WIDTH 4 INCHES.
b. CONSTRUCT PIPE BOOTS FROM VAPOR BARRIER MATERIAL AND PRESSURE SENSITIVE TAPE PER MANUFACTURER'S INSTRUCTIONS.
D. INSTALLATION PER MANUFACTURES INSTRUCTIONS.
a. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND ASTM E 1643-98.
b. UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE POUR.
c. LAP VAPOR BARRIER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
d. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURERS TAPE.
e. SEAL ALL PENETRATIONS (INCLUDING PIPES) WITH MANUFACTURER'S PIPE BOOT.
f. NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
g. REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH TAPE.
2. WALLS AND CEILINGS BASIS-OF-DESIGN: MEM-BRAIN CONTINUOUS AIR BARRIER & SMART VAPOR RETARDER CLASS A FIRE RATED 2-MIL THICK FILM OF POLYAMIDE (NYLON) MANUFACTURED BY CERTANTEED.
A. LOCATION: INTERIOR SIDE OF STUDS)
B. ACCESSORIES:
a. SEAM, GAPS AND PENETRATION TAPE: USED AT TRANSITIONS, GAPS AND JOINTS, PENETRATION AND FASTENERS SUCH AS STAPLES.

GENERAL NOTES:

- 1. UNLESS NOTED OTHERWISE, THE MATERIALS AND PRODUCTS NOTED ARE BASIS OF DESIGN (BOD). CONTRACTOR TO USE THE MANUFACTURERS RECOMMEND ACCESSORIES, ATTACHMENT, TESTING (ASTM OR UL) OR INSTALLATION REQUIREMENTS. ALTERNATE MATERIALS WILL BE CONSIDER IF THEY MEET OR EXCEED THOSE LISTED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EVALUATION MATERIALS NECESSARY TO THE ARCHITECT AND OWNER FOR APPROVAL. IF NO PRODUCT OR MATERIAL STANDARD IS DESCRIBED, THE CODE REQUIRED MINIMUMS APPLY.
2. NOT ALL MATERIALS ARE LISTED ON THIS SHEET. REFER TO THE ENTIRE SET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

TERMITE CONTROL:

- 1. GENERAL: EPA-REGISTERED TERMITICIDE ACCEPTABLE FOR USE IN THE STATE OF KANSAS, IN AN AQUEOUS SOLUTION FORMULATED TO PREVENT TERMITES INFESTATION.
2. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING OR EQUAL:
A. BAYER ENVIRONMENTAL SCIENCE, PREMITE, PRECONSTRUCTION INSECTICIDE.
3. SERVICE LIFE OF TREATMENT: SOIL TREATMENT TERMITICIDE THAT IS EFFECTIVE FOR NOT LESS THAN 15 YEARS AGAINST INFESTATION OF SUBTERRANEAN TERMITES.

STONE VENEER PRODUCTS:

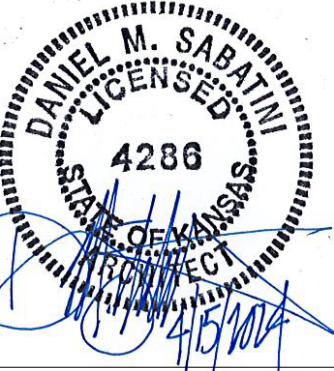
- 1. LIMESTONE
A. STONE QUARRIES/FABRICATORS:
1. HIGGINS STONE
B. VARIETIES AND SOURCES: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING:
1. LEHIGH TRAILS MIX FROM MISSION TOWNSHIP, WB. CO., KS
2. STONE FABRICATION
A. BROKEN ASHLAR THIN VENEER BLEND: NOMINAL THICKNESS: 1.25"
1. SAWED BED, SPLIT FACE, SAWN BACK, SPLIT ENDS
2. COURSE HEIGHTS: SNECK: 2 1/4 INCH (15%), LEVELLER: 5 INCH (33%), RISER: 7 3/4 INCH (52%)
3. STONE LENGTHS: VARIED BETWEEN 6" AND 24"
4. 3/4 INCH BEDS AND JOINTS
5. MORTAR: TBD
B. STONE SILL: NOMINAL THICKNESS: 2 3/4 INCH
1. 2 1/4 INCH TALL; LENGTH TO MATCH DRAWINGS; LENGTHS IN EXCESS 60 INCHES SHALL CONSIST OF MULTIPLE PIECES, AS RECOMMENDED BY FABRICATION SHOP
2. FACE HAND-PITCHED, TOP & END SURFACES SAWN AND SMOOTH; SAWN BOTTOM AND BACK
C. STONE FIREPLACE HEARTH: NOMINAL THICKNESS: 2" CUT SLAB.
1. STONE: DOVER GRAY
2. HONED FINISH TOP
3. SPLIT FACE EDGES
3. SETTING STONE MASONRY
A. PERFORM NECESSARY FIELD CUTTING AND TRIMMING AS STONE IS SET.
1. USE POWER SAWS TO CUT STONE THAT IS FABRICATED WITH SAW-CUT SURFACES OR TO TRIM VENEER TO LENGTH AS NECESSARY.
2. USE HAMMER AND CHISEL TO FITCH STONE THAT IS FABRICATED WITH SPLIT OR PITCHED SURFACES.
3. PITCH FACE OF VENEER AS NEEDED TO ADJUST ANY CONCAVE OR CONVEX SURFACES, AND TO MINIMIZE THE VISIBILITY OF VENEER STONE ENDS THAT ARE SAWN IN THE FIELD.
B. SORT STONE BEFORE IT IS PLACED IN WALL TO REMOVE ANY STONE THAT DOES NOT COMPLY WITH REQUIREMENTS RELATING TO AESTHETIC EFFECTS, PHYSIC PROPERTIES, OR FABRICATION, OR THAT IS OTHERWISE UNSUITABLE FOR INTENDED USE.
C. ARRANGE STONES WITH HEIGHTS AS INDICATED, MAINTAINING REASONABLE UNIFORM JOINT WIDTHS, AND IN ACCORDANCE WITH FOLLOWING PRINCIPLES:
1. VERTICAL JOINTS EXTENDING BEYOND THE HEIGHT OF THE RISER AND INTO THE COURSE ABOVE SHOULD BE AVOIDED.
2. RISERS SHOULD BE EVENLY DISTRIBUTED THROUGHOUT THE BODY OF THE WALL AND NEVER INSTALLED IMMEDIATELY TO THE LEFT OR RIGHT OF ANOTHER RISER.
3. AVOID SETTING ANY MORE THAN THREE STONES AGAINST A RISER.
4. AVOID THE "STAIR-STEPPING" EFFECT OF LEVELERS OF THE SAME BED HEIGHT AND SAME APPROXIMATE LENGTHS SET ON TOP OF EACH OTHER.
5. AVOID LINING UP VERTICAL JOINTS IN ALTERNATE COURSES.
6. DO NOT ALLOW HORIZONTAL JOINTS TO RUN MORE THAN FOUR OR FIVE FEET. IF POSSIBLE, BREAK UP THE HORIZONTAL JOINTS OF SHORTER STRETCHES, SUCH AS BETWEEN WINDOWS OR DOORS.
7. TRY TO PROVIDE A SUBSTANTIAL BONDING LAP: A MINIMUM OF ONE-QUARTER TO ONE-THIRD OF THE LENGTH OF A STONE BEING SET SHOULD CROSS THE JOINT BETWEEN THE TWO STONES BELOW.
8. FINAL CLEANING AND APPLICATION OF NATURAL STONE CLEAR PENETRATING SEALER PER MANUFACTURERS RECOMMENDATION (BASIS OF DESIGN PROSOCO SURE KLEAN WEATHER SEAL) ON BOTH INTERIOR AND EXTERIOR STONE.

SHEET FLASHING AND SEALER

- 1. SILL-PLATE SEALER: PERIMETER EXTERIOR WALLS PROVIDE SILL PLATE SEALER. USE TRIPLE GUARD ENERGY SILL SEALER, W/ PRIMERS, MANUF. BY PROTECTO WRAP CO. (800) 759-9727 OR APPROVED EQUAL. A SELF-ADHERED MEMBRANE WITH RUBBERIZED ASPHALT FLASHING WITH A LAYER OF 3/8" CLOSED CELL FOAM AND TWO FLAPS DESIGNED TO ADHERE UP ON THE SHEATHING AND DOWN ON THE FOUNDATION FORMS AT T-BONE GASKET WITH 2" LOWER FLAP AND 3" UPPER FLAP. APPROVED EQUAL SUBSTITUTIONS ARE ALLOWED.
2. FLEXIBLE FLASHING: WHERE FLEXIBLE FLASHING IS INDICATED OR REQUIRED, PROVIDE COMPOSITE, SELF-ADHESIVE, FLASHING PRODUCT CONSISTING OF A PLIABLE BUTYL RUBBER OR RUBBERIZED ASPHALT COMPOUND, BONDED TO A HIGH-DENSITY POLYETHYLENE FILM, ALUMINUM FOIL, OR SPUNBONDED POLYOLEFIN TO PRODUCE AND OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH.
3. ADHESIVES FOR GLUING FURRING TO CONCRETE: FORMULATION COMPLYING WITH ASTM D3498 THAT IS APPROVED FOR USE INDICATED BY ADHESIVE MANUFACTURER.
4. SELF-ADHERING SHEET WATERPROOFING: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE W.R.MEADOWS, INC. MEL-ROL OR COMPARABLE PRODUCT.
5. F RIDGE.

EXTERIOR WALL SHEATHING

- 1. INTEGRATED INSULATED, MOISTURE AND AIR-BARRIER SHEATHING: BASIS-OF-DESIGN 1-1/2" ZIPWALL R-6 INSULATED PANEL AND ACCESSORY PRODUCTS MANUFACTURED BY HUBER ENGINEERED WOODS FOR SINGLE SOURCE RESPONSIBILITY. EQUAL SYSTEMS SUBSTITUTION MUST BE APPROVED PRIOR TO BIDDING.
2. PERFORMANCE REQUIREMENTS:
A. INSULATION R-VALUE 6.6
B. INTEGRATED WATER-RESISTIVE BARRIER FOR MOISTURE AND AIR INFILTRATION. 12-16 PERM ASTM 96 PROCEDURE B
C. STRUCTURAL SHEATHING - SEE STRUCTURAL FOR FASTENING REQUIREMENTS AND SHEAR WALL DESIGN.
3. CHARACTERISTICS:
A. NOMINAL THICKNESS: 1-1/2"
B. NOMINAL INSULATION THICKNESS: 1"
C. NOMINAL OSB THICKNESS 1/2" (ACTUAL 7/16")
4. ACCESSORIES:
A. FLASHING AND STRETCH TAPE COMPATIBLE WITH ZIP SYSTEMS SEALANTS COMPATIBLE WITH W/ ZIP PANELS, TAPE AND WINDOW AND DOORS. REFER TO MANUF. FOR REFERENCE MATERIALS.
5. INSTALLATION:
A. TAPE AND SEALANT APPLICATION PER HUBER ENGINEERED WOODS FOR JOINT, PENETRATIONS, MATERIAL TRANSITIONS, OPENINGS (SUCH AS WINDOW AND DOORS) PER ZIP-WALL AND WINDOW MANUF. RECOMMENDATIONS.
B. FASTENERS: SEE STRUCTURAL DRAWING FOR FASTENING AND ADDITIONAL INFORMATION.



KANSAS DEPARTMENT OF PARKS & WILDLIFE 1020 S. KANSAS, ROOM 200 TOPEKA, KS 66612-1327 (785) 296-2281

sabatini architects 401 Elm Street, Suite B Lawrence, KS 66044 P: 785.331.3550 F: 785.331.0540 www.sabatiniarchitects.com



Kansas Department of Wildlife & Parks Kanopolis Visitor Center New Construction 200 Horse Thief Rd., Marquette, KS 67464 BUILDING NUMBER 7-1000-2/677 DATE: 9/30/2024 DRAWN BY: Author REV: 1

MATERIAL SPECIFICATIONS

A-015174

G005

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

- These notes, and other drawing notes contained herein, are provided to meet specific requirements and supplement the project specifications. These notes neither replace nor override the provisions and requirements of the project specifications.
- All work shall be performed in accordance with local, state, and federal regulations.
- The Owner shall be responsible for obtaining all construction permits required to perform the work.
- The Contractor shall coordinate work with the Owner to not disrupt the Owner's daily operations. Once the work has been started, the Contractor shall complete the work without any interruptions. Construction activities are limited to the immediate work sites. A staging and storage area will be available for the Contractor's use on site.
- The location, size, and depth of existing, buried utilities are illustrated based on available records from the Owner. Record locations shall be verified based on observable surface features such as manholes, valve boxes, evidence of trenches, field markings, etc. wherever possible. Excavations have not been made to verify locations or depth of buried utilities. The exact location and elevation of existing utilities must be determined by the Contractor. It shall be the duty of the Contractor to ascertain whether any additional facilities other than those shown on the plan may be present. The Contractor shall contact "Kansas One Call System, Inc." (1-800-344-7233) a minimum of two full working days prior to the start of construction for notification of utility owners and field location of all utilities. The Contractor shall verify the elevation of possible conflicting utilities prior to construction. Overhead utilities and underground services generally are not shown.
- The Contractor shall furnish all labor, equipment, materials, and tools necessary to completely perform the work in a safe, expeditious, and workmanlike manner. All work shall be done to the lines, slopes, and grades indicated on the Construction Drawings. The Contractor shall visit the site and familiarize himself/herself with the existing conditions before submitting his/her bid.
- If certain features are not fully shown or called for on the construction drawings or project specifications, their construction shall be of the same character as for similar conditions that are shown or called for, subject to the approval of the Engineer. Where sections vary, the Contractor shall provide smooth transitions between them, unless noted otherwise.
- The Contractor shall install equipment and materials per the Manufacturer's recommendations unless noted otherwise. The Contractor accepts full responsibility for the proper handling and installation of equipment and materials.
- All shop drawings provided shall be submitted to the Engineer for review prior to the fabrication of material or the purchase of non-returnable stock. Dimensional review is the Contractor's responsibility.
- All materials are subject to the approval of the engineer.
- The Contractor is responsible for the transportation, unloading, storage, and management of all equipment and materials unless noted otherwise. The Contractor shall coordinate onsite storage with the Owner. The Contractor shall be responsible for the proper safeguarding of materials and equipment stored on the site to prevent theft, vandalism, or damage.
- Trees and shrubs within the construction limits shall be cleared and grubbed. The Contractor is responsible for the removal, management, storage, loading, transportation, and disposal of all demolished equipment and material unless noted otherwise.
- Unless noted otherwise, existing utilities are to remain and shall be protected by the Contractor during construction. The Contractor shall exercise care to avoid damaging existing utilities during grading and construction activities. Existing facilities (utilities, pavements, etc.) damaged by the contractor shall be repaired or replaced by the Contractor at no additional expense to the Owner. The Contractor shall restore all disturbed areas to a condition equal to or better than pre-construction conditions.
- All open excavations shall be protected with safety fence.
- Positive drainage on the site is required throughout the project duration. The Contractor is responsible for the installation and removal of all sediment control practices required as a result of project activities. Such practice shall be in accordance with applicable federal and state regulations governing stormwater runoff from construction activities.
- Traffic control devices must conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and standards established by the Kansas Department of Transportation (KDOT).
- The Contractor is responsible for the protection and maintenance of all permanent survey monuments and property irons in the project vicinity. If monuments are disturbed by planned construction, the Contractor shall retain a Kansas-Licensed land surveyor to re-establish the monuments and irons at the Contractor's expense. Such monuments and irons shall be reestablished by a licensed land surveyor in accordance with state laws.
- Construction staking shall be the responsibility of the Contractor.
- Seeding of disturbed areas shall be completed by the Contractor.

HEALTH AND SAFETY:

- The means of the work and the safety of the Contractor's employees are solely the responsibility of the Contractor. The Contractor has a contractual obligation to comply with all applicable laws and regulations including those of OSHA. At no time will either the Owner or the Contractor's representatives take responsibility for either the means of the work or the safety of the Contractor's employees.
- The Contractor is responsible for utilizing the appropriate level of PPE for the type of work being performed and the site conditions present at the time.

SITE LEGEND:

○	Bar Found	□	Cable TV Pedestal
●	Bar Set	⊖	Deadman Anchor
⊕	Benchmark	⊕	Electric MH
CP 7A	Control Point	⊕	Electric Pedestal
△	Section Corner Found	⊕	Power Pole
▲	Section Corner Set	⊕	Light Pole
⊕	Well	⊕	Light Pole w/ Base
⊕	Hydrant	⊕	Power Pole w/ Transformer
⊕	Water Meter	⊕	Telephone Marker
⊕	Water Valve	⊕	Telephone MH
⊕	Fire Hydrant	⊕	Telephone Pedestal
⊕	Sign	⊕	Telephone Pole
⊕	Mail Box	⊕	Transformer
⊕	Flagpole	⊕	Gas Marker
⊕	Round Inlet	⊕	Gas Meter
⊕	Square Inlet	⊕	Gas Valve
⊕	San. Sewer MH	⊕	Tree

---	Existing Ground (1' Contour)
---	Existing Ground (5' Contour)
---	Proposed Ground (1' Contour)
---	Proposed Ground (5' Contour)
---	Property Line
---	Section Line
---	Sanitary Sewer Line
---	Water Line
---	Gas Line
---	Telephone Cable
---	Storm Sewer Line
---	Fiber Optic Line
---	Overhead Electric Line
---	Underground Electric Line
---	Chain Link Fence
---	Barbed Wire Fence

SHEET INDEX:

SHEET INDEX	
Sheet Number	Sheet Title
C100	General Civil Site Work Notes
C101	Abbreviated Technical Specifications
C200	Existing Conditions & Demolition Plan
C300	Site Improvements Plan
C301	Site Grading & Staking Plan
C302	Loop Road Plan & Profile
C303	Retaining Wall Plan & Profiles
C304	Site Utilities Improvements Plan
C305	Site Utilities Staking Plan
C306	Erosion Control Plan
C400	Paving Details
C401	Retaining Wall Details
C402	Misc. Utility Details
C403	Sanitary Sewer Details
C404	Erosion Control Details

SURVEY CONTROL POINTS:

Point Table				
Point	Northing	Easting	Elevation	Description
98	113514.88	1315888.12	1534.63	BM *CHIS SQR*
99	111231.75	1317937.91	1537.50	CPTS *SE CONTROL CAP*
100	113366.21	1315760.95	1523.69	CPTS *SE CNTRL CAP*
101	113365.84	1316069.60	1521.46	CPTS *SE CNTRL CAP*
102	113657.72	1315840.60	1532.55	CPTS *SE CNTRL CAP*

CONSTRUCTION STAKING POINTS:

Staking Points				
Point	Northing	Easting	Elevation	Description
100	113545.48	1315672.21	1530.00	FG
101	113576.75	1315739.27	1530.00	FG
102	113544.12	1315754.49	1530.00	FG
103	113528.95	1315721.94	1530.00	FG
104	113520.26	1315725.99	1530.00	FG
105	113511.53	1315707.26	1530.00	FG
106	113520.21	1315703.21	1530.00	FG
107	113512.85	1315687.42	1530.00	FG
108	113513.76	1315687.00	1520.00	FG
109	113510.38	1315679.75	1519.84	FG
110	113541.19	1315665.38	1519.84	FG
111	113544.57	1315672.63	1520.00	FG
112	113545.41	1315672.06	1530.00	FG
113	113552.05	1315668.96	1529.85	FG
114	113577.76	1315724.09	1529.85	FG
115	113571.12	1315727.19	1530.00	FG
116	113465.55	1315702.54	1527.59	FG TC PC
117	113471.53	1315704.70	1527.84	FG TC PT
118	113469.63	1315700.62	0.00	RP
119	113482.86	1315699.42	1528.28	FG TC
120	113487.39	1315697.31	1528.35	FG
121	113493.64	1315722.53	1529.43	FG TC
122	113498.17	1315720.42	1529.50	FG
123	113507.23	1315716.19	1529.92	FG
124	113504.27	1315709.85	1529.92	FG
125	113511.22	1315706.61	1530.00	FG
126	113520.52	1315726.55	1530.00	FG
127	113513.57	1315729.78	1529.92	FG
128	113510.61	1315723.44	1529.92	FG
129	113501.55	1315727.67	1529.50	FG

Staking Points				
Point	Northing	Easting	Elevation	Description
130	113497.02	1315729.78	1529.43	FG TC
131	113504.30	1315733.56	1529.58	FG
132	113506.41	1315738.09	1529.58	FG
133	113510.43	1315746.70	1529.08	FG
134	113513.81	1315753.95	1529.08	FG
135	113517.82	1315762.56	1529.58	FG
136	113519.93	1315767.09	1529.58	FG
137	113521.62	1315770.72	1529.51	FG
138	113517.09	1315772.83	1529.43	FG TC
139	113515.40	1315769.20	1529.51	FG TC
140	113513.29	1315764.67	1529.51	FG TC
142	113509.28	1315756.06	1529.01	FG
143	113505.89	1315748.81	1529.01	FG
144	113501.88	1315740.20	1529.51	FG TC
145	113499.77	1315735.67	1529.51	FG TC
146	113503.60	1315779.12	1529.28	FG TC PT
147	113505.50	1315783.20	0.00	RP
148	113501.00	1315783.12	1529.23	FG TC PC
149	113485.57	1315747.81	1528.73	FG
150	113496.98	1315772.28	1528.73	FG
151	113500.39	1315789.68	1529.68	FG PC
152	113505.46	1315803.32	1530.92	FG MP
153	113518.43	1315809.92	1531.69	FG PT
154	113520.39	1315790.02	0.00	RP
155	113439.29	1315803.22	1528.65	FG PT
156	113456.89	1315794.42	1528.80	FG MP
157	113458.43	1315774.79	1527.99	FG PC
158	113440.30	1315783.25	0.00	RP
159	113417.95	1315687.99	1522.76	FG PT
160	113411.48	1315685.49	1522.08	FG PC

Staking Points				
Point	Northing	Easting	Elevation	Description
161	113413.42	1315690.10	0.00	RP
162	113410.30	1315685.99	1521.98	FG PT
163	113401.12	1315699.90	1522.18	FG PC
164	113416.12	1315699.81	0.00	RP
165	113400.80	1315645.90	1519.27	FG PC
166	113415.89	1315660.81	1521.70	FG PT
167	113415.80	1315645.81	0.00	RP
168	113416.56	1315660.81	1521.75	FG PC
169	113440.89	1315667.78	1523.40	FG MP
170	113457.61	1315686.79	1525.41	FG PT
171	113416.83	1315705.81	0.00	RP
172	113598.60	1315653.64	1520.00	FG
173	113600.63	1315670.23	1521.00	FG
174	113602.55	1315686.82	1522.00	FG
175	113604.67	1315703.39	1523.00	FG
176	113606.49	1315720.00	1524.00	FG
177	113607.16	1315736.18	1525.00	FG
178	113599.46	1315749.75	1526.00	FG
179	113569.86	1315764.91	1527.00	FG
180	113552.37	1315772.67	1527.58	FG
181	113543.54	1315773.99	1527.90	FG
182	113561.95	1315746.18	1530.00	FG
183	113557.42	1315748.29	1530.00	FG
184	113564.20	1315751.01	1529.85	FG
185	113559.67	1315753.12	1529.85	FG
186	113409.26	1315703.06	1521.05	FG FL
187	113409.59	1315643.08	1518.17	FG FL
188	113405.26	1315656.48	1520.72	FG MP
189	113403.60	1315691.55	1521.60	FG MP
190	113438.19	1315731.39	1526.72	FG

OWNER CONTACT INFORMATION:

PROJECT MANAGERS:

Brett Blackburn, Chief Engineer
 Kansas Dept. of Wildlife and Parks
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 Office: (785) 296-8404

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 Engineering Services
 905 East Wea
 Paola, KS 66071
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PARK MANAGER:

Jason Sunderland, Park Manager
 Kansas Dept. of Wildlife and Parks
 Kanopolis State Park
 200 Horsethief Rd
 Marquette, KS 67464

Office: (785) 564-2565

CONSTRUCTION POINT LEGEND:

FG = FINISHED GRADE ELEVATION
 TC = TOP OF CURB (AT BACK OF CURB)
 PC = POINT OF CURVATURE
 MP = MID POINT
 PT = POINT OF TANGENCY
 RP = RADIUS POINT



KANSAS DEPARTMENT OF
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Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
 New Construction
 200 Horsethief Rd, Marquette, KS 67464
 BUILDING NUMBER 71000-27677
 DATE: 09/20/2024 DRAWN BY: Author REV:

General Civil Site
 Work Notes

A-015174

C100

CONTRACT
 DOCUMENTS

GENERAL NOTES – EARTHWORK:

- PREPARATION, CLEARING AND GRUBBING:
 - Verify all utility depths and locations prior to construction.
 - Protect existing improvements to remain from damage during construction.
 - Remove and dispose of trees, snags, stumps, shrubs, brush, limbs, heavy grass and other vegetal matter that interferes with new construction. All stumps, trunks, roots or root systems greater than 2-inches in diameter shall be removed to a depth of 12-inches below finish grade or subgrade elevations.
 - Make provisions for protection of all disturbed areas from erosion until project substantial completion.
- TOPSOIL AND ROCK SURFACING:
 - Excavate topsoil and rock surfacing from construction areas. Topsoil shall be stockpiled for use in finishing operations. Rock surfacing shall be stockpiled for reuse in the base course of aggregate driving surfaces.
 - In general, topsoil shall be removed to a depth of six to twelve inches. The depth of topsoil may vary throughout the project. Topsoil shall be spread evenly to a depth of at least 6-inches over all cut and fill areas not covered by structures, gravel surfacing, or riprap.
 - The removal, salvaging, stockpiling, and reinstallation of topsoil and gravel surfacing shall be considered subsidiary to bid item in which it is required.
- EXCAVATION AND TRENCHING:
 - General: Perform all material conditioning and excavations required. Excavation includes the removal and selected disposal of all excess or unsuitable materials of whatever nature.
 - Stockpile satisfactory excavated materials until required for fill or backfill. Stockpile in area(s) on-site where it will not interfere with drainage, construction, or utility operations. Obtain composite sample for laboratory testing.
 - Remove from site and legally dispose of all excavated materials unsatisfactory for use as fill or backfill.
 - Placement of Materials: Excavated material which meets required specifications may be used in embankments or backfill when approved and accepted.
- BACKFILL AND EMBANKMENTS:
 - Material for backfill and embankments shall generally be impermeable materials classified as CL, CH, or CL-CH as defined by the Unified Soil Classification System. These materials shall be free of organic matter, roots, debris, and particles larger than 1 inch in greatest dimension.
 - General: Place all embankments to the lines and grades shown in the plans. Areas to be covered with topsoil shall be underfilled so the finished lines conform after topsoil placement. Protect and maintain embankments during the course of construction.
 - All sod and vegetable matter shall be removed from the surface upon which an embankment is to be placed and the cleared surface shall be completely broken up by plowing, scarifying or stepping to a minimum depth of 6-inches.
 - Placement: Place material in loose lifts not exceeding 9 inches, brought to within 0% to +4% of optimum moisture content. Bring up each lift uniformly over the entire area being filled. Compact each layer to 95% of maximum dry density as determined by ASTM D698 as it is placed.
- COMPACTION:
 - Obtain compaction of backfill and embankment by mechanical means with sheepsfoot style compaction equipment or other equipment approved by the Engineer. Pad foot rollers on an excavator, walk behind or remote trench compactors, and jumping jack type compactors are all acceptable means of compaction for this project. Do not use water jetting, hydraulic fill, or flooding. Compact each layer with mechanical tampers. Do not place backfill against concrete walls until design strength of concrete has been reached.
- BRACING AND SHEETING:
 - All excavation and trenches shall be properly and substantially braced and sheeted where necessary to prevent caving and sliding and to provide adequate protection to the workmen.
- STRUCTURAL EXCAVATION:
 - Locate limits of excavation for structures with formed vertical surfaces at least 5 feet from the extreme outside of the structure to the toe of the cut slope. Where excavation is inadvertently carried beyond the design elevations or approved structural subgrade, adjust the construction as directed to meet the structural requirements.
 - Rectify over depth excavation in such locations by backfilling with crushed rock bedding material compacted to 95% maximum density or concrete as required by the Engineer.
 - Design and install shoring if necessary. Side slopes of excavation shall be only as steep as is safe for material to stand. Avoid unnecessary disturbance of adjacent ground.
- SUBGRADE FOR STRUCTURES:
 - Removal all existing loose natural clays, sand, and compressible materials under proposed structures. Excavate to depths indicated.
 - Following excavation, scarify next 8 inches of soil, moisture condition, and recompact to 95% of maximum density at a moisture content of 0% to +4% of optimum.
 - Fill all voids with aggregate material. Remove any disturbed or unacceptable materials at excavated foundation levels and replace with aggregate material. Carefully make excavations to avoid ponding of water.
 - Exercise careful excavation procedures to provide a relatively smooth subgrade.
- BACKFILL AROUND STRUCTURES:
 - Use native materials for backfill material around structures as indicated on drawings. Place backfill in 9-inch loose lifts and compact to 95% of maximum density at a moisture content within 0% to +4% of optimum in accordance with ASTM D 698.
 - Do not use any axle-driven or tractor-drawn compaction equipment within five (5) feet of any structure.
- BACKFILL AROUND PIPE:
 - Following excavation of the pipe trench, friable suitable soil bedding material may be used to establish the proper pipe grades and to insure continuous support of the pipe.
 - Following bedding, place native material simultaneously on both sides of the pipe, keeping the level of backfill the same on each side. Carefully place the material around the pipe so that the pipe barrel is completely supported and that no voids or uncompacted areas are left beneath the pipe.
 - All material within 12 inches of the outer surface of the pipe shall be compacted by hand tamping only. Place all backfill in 4-inch loose lifts and compact to 95% of maximum density at a moisture content within 0% to +4% of optimum in accordance with ASTM D698.
- CLEAN-UP
 - Completely remove from site and legally dispose of all excess materials and debris, unless otherwise specified.
 - Excess soil not being re-used may be uniformly spread in areas approved by the Engineer and in a manner to facilitate site drainage.
- CONSTRUCTION STAKING
 - Construction staking shall be the responsibility of the Contractor.

GENERAL NOTES – CONCRETE:

- GENERAL:
 - Concrete materials shall be in conformance with all applicable portions of the Kansas Dept. of Transportation Standard Specifications for Road and Bridge Construction (latest edition), unless otherwise modified herein.
- SUBMITTALS:
 - Submit concrete mix designs with certifications at least seven (7) days prior to start of Work.
 - Submit aggregate gradation, quality test reports, and/or certifications.
- AGGREGATE BASE COURSE:
 - Graded crushed limestone aggregate, meeting the requirements of AB-3 in KDOT Standard Specifications, or acceptable equivalent.
 - Compact to a minimum density of 95% (standard proctor) at optimum moisture. Maintain moisture content until concrete placement.
- REINFORCING STEEL:
 - Reinforcing Steel (Grade 60) fy = 60,000 psi
 - Use reinforcing steel conforming to ASTM A615, Grade 60. All dimensions relative to reinforcing steel are to the centerline of the bar unless otherwise noted.
 - Chairs, Bolsters, Bar Supports and Spacers sized and shaped for support of reinforcing.
 - Fabricate concrete reinforcing in accordance with ACI 318.
- CONCRETE:
 - Grade 4.0 (AE) Concrete (Compressive Strength: 4,000 PSI, 28 days)
 - Slump. Maximum 3 inches for flatwork; 4 inches for vertical walls.
 - Cement. ASTM C150, Normal-Type I, Portland type.
 - Aggregates. Aggregates shall meet durability requirements of KDOT, Class I.
 - Fine Aggregates. ASTM C33
 - Coarse Aggregates. ASTM C33, sieve size designation #467 (unless otherwise approved by the Engineer), severe weathering class designation.
 - Water. Clean and not detrimental to concrete.
 - Water/cement ratio shall not exceed 0.55.
 - Air Entrainment Admixture. ASTM C260 – 6% ± 1%
 - Bonding Agent. Polymer resin emulsion or latex emulsion.
 - Non-shrink Grout. Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
- COMPOUNDS, HARDENERS AND SEALERS:
 - Curing Compound. ASTM C309, -89 Type I Class A or B; Federal Spec TT-C-800A min 18% solids – Sonneborn Kure – N – Seal 0800, L & M Chemical “Dress & Seal” or approved equal.
 - Absorptive Mats. ASTM C171, burlap-polyethylene.
 - Hot Joint Sealers. Hot applied, non-tracking asphalt-rubber compound complying with ASTM D1190 as manufactured by W. R. Meadows, Carey/Celotex, or acceptable equivalent, applied in accordance with manufacturer’s recommendations.
 - Expansion Joint Sealer. Single component, polyurethane-based, non-sag elastomeric joint sealant shall be Sikeflex-1a, as manufactured by Sika Corporation or acceptable equivalent.
- CONCRETE FINISHING:
 - Finish concrete flat work surfaces in accordance with ACI 301.
 - Uniformly spread, screed, and float concrete.
 - Broom finish exterior slab surfaces.
 - Maintain surface flatness, with maximum variation of ¼ inch in 10 ft.
 - Grout voids left after form removal where acceptable to Engineer.
 - Provide vertical concrete surfaces to be left exposed with smooth rubbed finish; grout voids; remove fins, form marks, and rough surfaces.
- TESTING:
 - General: The Contractor shall provide third party concrete sampling and testing (by a KDWP-approved testing firm) in accordance with the following requirements.
 - Compressive Strength. Test cylinders in accordance with ASTM C31 and ASTM C39. Minimum four specimens per sample.
 - Frequency. Compression test samples shall be taken for each day’s pour exceeding five (5) cu. yds. plus additional for each 50 cu. yds. over and above the first 25 cu. yds. of concrete placed in one day. Test samples shall be taken in middle of a loading during concrete placement (not at beginning). Of each sample, one specimen shall be tested at 7 days, two specimens tested at 28 days, and one retained in reserve or later testing if required.

GENERAL NOTES – RIPRAP:

- MATERIAL:
 - All aggregate shall be crushed stone or crushed concrete product with a uniform gradation and quality characteristics as specified herein. The product shall be reasonably clean and void of deleterious substances such as sticks, clods, organic materials etc. If crushed concrete is utilized, no reinforcing steel of any kind shall be present.
 - 6” KDOT Ditch Liner:
 - In general, the stone shall meet the following gradation.
 - Percent retained on 9” sieve – 20 to 40%
 - Percent retained on 6” sieve – 30 to 70%
 - Percent retained on 4” sieve – 65 to 85%
 - Percent retained on 2” sieve – 90 to 100%
 - No riprap shall have a nominal size greater than 12”.
 - All riprap shall meet the following requirements regarding the quality of the stone.
 - Specific Gravity, sat. & surf. dry, minimum: 2.40
 - Soundness, minimum: 0.85
 - Wear, maximum: 45%
 - Absorption, maximum: 6.0%
- RIPRAP INSTALLATION:
 - Place riprap at pipe outlets and other locations indicated on the drawings.
 - Pump and spread riprap in a manner so as to maintain a relatively uniform liner depth and surface contour.
 - During placement of the riprap any large spaces between stones shall be filled with spalls of suitable size and all spalls shall be rammed thoroughly in place.
 - Minimize segregating riprap units of differing sizes to maintain an even distribution of the various sizes throughout the liner and maximize interlocking of units.
 - The entire surface of the riprap shall be compacted and rammed to obtain a tight surface. The finished surface shall present an even surface conforming to the lines and grades of the work area.

GENERAL NOTES – ASPHALTIC PAVING:

- GENERAL:
 - Asphaltic paving shall be in accordance with the applicable portions of the Current edition of the Kansas Department of Transportation (KDOT) Standard Specifications. Materials and methods of construction shall be in accordance with the following referenced portions of the KDOTSS, unless otherwise noted herein.
 - Division 600 - Flexible Pavement.
 - Section 1100 - Aggregates.
- MATERIALS:
 - AGGREGATE BASE:
 - AB-3 crushed rock in accordance with KDOTSS.
 - Aggregate shall be pugged in accordance with KDOTSS.
 - PAVING MATERIALS:
 - Asphaltic Design Mix: Commercial grade asphalt generally conforming to KDOTSS Type HMA, Class A. Mix Designation SR-12.5A.
 - ACCESSORIES:
 - Tack Coat: KDOT designation SS-1H emulsified asphalt.
 - SOURCE QUALITY CONTROL:
 - Submit proposed mix design for review prior to commencement of work.
- EQUIPMENT:
 - The asphalt laydown machine shall be a self-propelled unit with a heated, vibratory screed. The laydown equipment shall be equipped with electronic screed controls using a reference string line (traveling string is not permitted).
- PLACEMENT:
 - EXAMINATION:
 - Verify that compacted subgrade is dry and ready to support paving and imposed loads.
 - Verify gradients and elevations of subgrade are correct.
 - AGGREGATE BASE PLACEMENT:
 - Spread aggregate over prepared substrate to a total compacted thickness of that shown on the Drawings. Spread in a manner that minimizes segregation of graded aggregates.
 - Place aggregate in layers not exceeding 6-inches in thickness and compact to minimum 95% max. dry density in accordance ASTM D698. Use mechanical tampers in locations inaccessible to compaction equipment. Add water as required to assist with compaction operations. Do not over-water.
 - Level and contour surfaces of aggregate base to elevations and gradients indicated.
 - TACK COAT:
 - Tack coat is not required if overlay is completed within 78 hours.
 - Apply tack coat on asphalt surface at uniform rate of 0.03 gal/sq yd.
 - Apply tack coat to contact surfaces of curbs. Keep all other surfaces clean.
 - ASPHALT PAVEMENT (SINGLE COURSE):
 - Deliver and install in accordance with KDOTSS.
 - Install and adjust manhole frames, castings, and other appurtenances as required to match finish elevation of asphalt surface.
 - Place asphalt not less than 48 hours after applying prime coat, or until it will not be picked up by traffic or equipment.
 - Place to the full compacted thicknesses indicated on the Drawings.
 - Place in a manner that minimizes cold joints and positions such joints along edges of driving lanes or other locations conducive for optimizing pavement performance and appearance. Avoid transverse seams to fullest extent feasible.
 - Initial rolling shall be undertaken using an 8 to 10-ton flat face steel roller. Compaction shall be completed with a vibratory steel or 8 to 12-ton pneumatic roller. A flat face static steel roller, 5 tons or greater shall be used to finish the surface. Rolling shall continue until all rolling marks are removed and the asphalt has reached 95% of its maximum density. Hand compact areas inaccessible to rolling equipment.
 - ASPHALTIC PAVEMENT (DOUBLE COURSE):
 - Deliver and install in accordance with KDOTSS.
 - Install and adjust manhole frames, castings, and other appurtenances as required to match finish elevation of asphalt surface.
 - Place asphalt base course not less than 48 hours after applying prime coat, or until it will not be picked up by traffic or equipment.
 - Place base course to compacted thicknesses indicated in the Drawings. Place in a manner that minimizes cold joints. Coordinate any required joints with planned joints of surface course.
 - Place surface course to compacted thicknesses indicated in the Drawings after applying tack coat and allowing tack coat to dry out and set. Place in a manner that minimizes cold joints and positions such joints along edges of driving lanes or other locations conducive for optimizing pavement performance and appearance. Avoid transverse seams to fullest extent feasible. Ensure that all seams are not over base course seams.
 - Initial rolling shall be undertaken using an 8 to 10-ton flat face steel roller. Compaction shall be completed with a vibratory steel or 8 to 12-ton pneumatic roller. A flat face static steel roller, 5 tons or greater shall be used to finish the surface. Rolling shall continue until all rolling marks are removed and the asphalt has reached 95% of its maximum density. Hand compact areas inaccessible to rolling equipment.
- TOLERANCES:
 - Flatness: Maximum variation of ¼-inch measured with 10 foot straight edge.
 - Scheduled Compacted Thickness: Within ¼-inch.
 - Variation from True Elevation: Within ½-inch from established grades.
- FIELD QUALITY CONTROL:
 - Any field inspection and testing shall be performed under provisions of Division One.
 - Allow testing agency to inspect Work and perform quality control testing as the Work progresses.
 - At the discretion and cost of the Owner, the minimum materials testing requirements are as follow:
 - Gradation: Pull random samples of aggregates during batching and run gradations to verify conformance to the design mix. A minimum of one sample shall be drawn and subsequent samples shall be randomly taken at a rate of one sample per 500 tons of aggregate.
 - Pavement Thickness and Asphaltic Cement Content: Cut cores in completed asphalt Work at a rate of one core per 5,000 sq. ft. for review and testing. Use Ignition Method based on ASTM D6307 to determine asphaltic cement content to verify conformance to the design mix.
 - Compaction Testing: Perform a minimum of one test per 5,000 sq.ft.

GENERAL NOTES – PAVEMENT MARKING:

- SUBMITTALS:
 - Product Data:
 - Manufacturer's product and technical data.
 - Manufacturer's installation instructions.
- PAVEMENT MARKING PAINT:
 - Paint shall be compatible with surface material and not bleed or discolor when applied.
 - Use permanent traffic paint that can be applied under the temperature conditions existing at the time of application. Paint shall be free of lead, chromium and other toxic heavy metals as defined by the U.S. Environmental Protection Agency. Select from the following types:
 - Acrylic resin waterborne traffic paint.
 - VOC compliant alkyd resin traffic paint.
 - Paint shall be fresh, furnished ready-mixed and shall not be diluted or thinned. It shall be suitable for applying by the Contractor's chosen method of application.
 - Color:
 - Parking Lot Striping: Yellow
- SURFACE PREPARATION:
 - Remove loose particles, dirt, tar, grease, residue and other deleterious material from pavement surface.
 - Remove curing compound from concrete surface less than one year old.
 - Protect surrounding surfaces from spills, tracking and splatters.
- APPLICATION:
 - Unless otherwise indicated, all striping and lane markings shall be 4-inches wide.
 - Avoid spray applications when windy conditions prevail.
 - Utilize templates where appropriate for symbols and similar pavement markings.
 - Apply to a minimum film thickness of 15 mils (wet).
 - Maintain straight, uniform alignment and crisp edges.
 - Completed coatings shall be free of defects such as runs, variations in color, lap or brush marks, and skips.
 - Protect painted surfaces from pedestrian and vehicular traffic, blown debris, excessive moisture and other adverse conditions until dry.



KANSAS DEPARTMENT OF WILDLIFE AND PARKS
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Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsefield Rd, Marquette, KS 67464
BUILDING NUMBER: 71000-27677
DATE: 09/20/2024 DRAWN BY: Author REV:

Abbreviated Technical Specifications
A-015174
C101
CONTRACT DOCUMENTS

DEMOLITION SCHEDULE:

1. Remove existing tree (typ). X
2. Clear and grub area as necessary to facilitate construction. Area shown is approximate and for planning purposes/erosion control considerations only. Final area shall depend on grading and borrow operations. Stockpile topsoil for finish grading and seeding operations.

GENERAL NOTES:

1. The existing site information shown hereon is based on a topographic survey performed by Schwab Eaton, February 5, 2024.
2. The Contractor shall field verify the actual locations, bury depths and sizes of all existing utilities prior to commencing construction activities. He shall contact the Kansas One-Call system a minimum of two full business days prior to Work to request marking of utilities by the respective utility owners. He shall directly contact all utility owners not subscribing to the One-Call system.
3. Install and maintain initial erosion control BMPs along the drives and other areas as shown on the Erosion Control Plan prior to commencing any significant land disturbance operations. Mud and debris dropped or tracked along the roadway shall be cleaned up, keeping the public ways clear. Other BMPs shall be installed as construction progresses as part of the Erosion Control Plan.
4. Keep existing roadways open to the public. Maintain or make alternate provisions for pedestrian traffic in a manner acceptable to the Owner. Stage, coordinate and schedule demolition activities in a manner that minimizes disruption of vehicular and pedestrian traffic. Provide, install and maintain temporary fences, barricades, warning devices and other appropriate measures to protect the public.

DEMOLITION NOTES:

1. Disconnect/remove and cap designated utilities within demolition areas.
2. Sawcut all limits of pavement demolition Work to clean, neat lines. Where practical, sawcut along nearest appropriate pavement joint or remove 1/2 panel.
3. Backfill and compact depressions, open pits and holes caused as a result of demolition. Backfill shall be placed and compacted in accordance with the project specifications.

SURVEY CONTROL POINTS:

Point Table				
Point	Northing	Easting	Elevation	Description
98	113514.88	1315888.12	1534.63	BM *CHIS SQR*
99	111231.75	1317937.91	1537.50	CPTS *SE CONTROL CAP*
100	113366.21	1315760.95	1523.69	CPTS *SE CNTRL CAP*
101	113365.84	1316069.60	1521.46	CPTS *SE CNTRL CAP*
102	113657.72	1315840.60	1532.55	CPTS *SE CNTRL CAP*

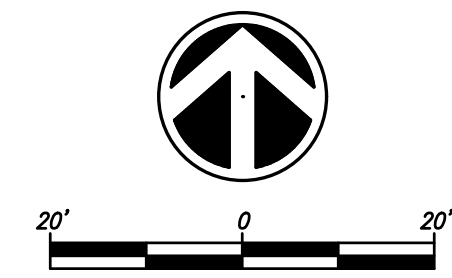


SITE IMPROVEMENTS SCHEDULE:

1. Install 2.5'-wide concrete curb and gutter (typ). See Sheet C301 and Details, Sheet C400.
2. Install 6" thick reinforced concrete pavement. Paint typical parking stall striping. See Sheet C301 and Details, Sheet C400.
3. Install wheel stop and Reserved ADA (Van Accessible) Parking stall sign. See Sheet C301 and Details, Sheet C400.
4. Install wheel stop and Reserved ADA (Car) Parking stall sign. See Sheet C301 and Details, Sheet C400.
5. Install ADA accessible (side-load) sidewalk ramp. See Sheet C301 and Details, Sheet C400.
6. Install 6" thick reinforced concrete sidewalk (dimensions as shown on Sheet C301). See Sheet C301 and Details, Sheet C400.
7. Install 6" thick concrete patio/apron/stoop (dimensions as shown on Sheet C301). See Sheet C301 and Details, Sheet C400.
8. Install reinforced concrete retaining wall. See Sheet C303 and Details, Sheet C401.
9. Install 6" asphalt pavement (ADD ALTERNATE #4) on 6" compacted AB-3 rock base and compacted subgrade (BASE BID). Provide smooth transitions between intermediate rock base and paved areas (BASE BID - NO ALTERNATE #4). See Sheets C301-C302 and Details, Sheet C400.
10. Install 2'-wide AS-1 gravel shoulder (ADD ALTERNATE #4) on 6" compacted AB-3 rock base and compacted subgrade (BASE BID). See Sheets C301-C302 and Details, Sheet C400.
11. Install 45 LF of 14"x23" horizontal elliptical reinforced concrete (HERCP) culvert with concrete end sections. See Sheet C301.

GENERAL NOTES:

1. The existing site information shown hereon is based on a topographic survey performed by Schwab Eaton, February 5, 2024.
2. Portions of the Work (A.D.A. parking area and sidewalk work) will be subject to meeting the intent and requirements of the Americans with Disabilities Act (A.D.A.) and any field modifications shall be performed in a manner that does not compromise accessibility requirements.
3. Construction activities shall be coordinated to make every reasonable effort to avoid disrupting safe public access into existing facilities surrounding the work area. Coordinate site access, mobilization, equipment storage, and project scheduling with KDWP personnel.
4. The Contractor shall field verify the actual locations, bury depths, and sizes of all existing utilities prior to commencing construction activities. He shall contact the Kansas One-Call system a minimum of two full business days prior to Work to request marking of utilities by the respective utility owners. He shall directly contact all utility owners not subscribing to the One-Call system. The Contractor is responsible for any damage to existing structures and facilities.
5. Install and maintain initial erosion control BMPs prior to commencing any significant land disturbance activities. Mud and debris dropped or tracked along the roadway shall be cleaned up, keeping the public ways clear. Disturbed areas shall be restored to pre-construction conditions (as applicable). All areas with unimproved surfacing (gravel, concrete, or asphalt) shall be seeded. Seeding and mulching operations shall be in accordance with the Project Specifications.
6. Keep existing roadways open to the public. Maintain or make alternate provision for pedestrian traffic in a manner acceptable to KDWP. Stage, coordinate, and schedule construction activities in a manner that minimizes disruption of vehicular and pedestrian traffic.
7. Provide, install, and maintain temporary fences, barricades, warning devices, and other appropriate measures to protect the public. Traffic control devices must conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and Standards established by the Kansas Department of Transportation.
8. See Layout Plans, Grading Plans, and Utility Plans for general dimensions and survey coordinates locating major site improvements.
9. See Sheets C100-C101 for additional project information.



GENERAL NOTES:

- The existing site information shown hereon is based on a topographic survey performed by Schwab Eaton, February 5, 2024.
- The Contractor shall field verify the actual locations, bury depths and sizes of all existing utilities prior to commencing construction activities. He shall contact the Kansas One-Call system a minimum of two full business days prior to Work to request marking of utilities by the respective utility owners. He shall directly contact all utility owners not subscribing to the One-Call system.
- All car parking stalls are 9.0' wide unless otherwise indicated. Parking stall widths along curves are measured at the narrowest part of the stall. Add 6" to end stall widths and measure from back of curb.
- Access aisles at van accessible A.D.A. stalls shall be 8' wide.
- Striping shall be 4" wide unless otherwise indicated. Parking stall striping color shall be determined by Owner.
- The Contractor shall adjust all valve boxes, water meter covers, manhole lids, etc. as required to match finish grades in a clean, neat manner.

GRADING NOTES:

- Protect existing slopes and vegetation from unnecessary disturbance, erosion and pollution discharges throughout construction.
- Gradients and cross-slopes of all ramps and pedestrian pavements shall conform with requirements of the Americans with Disabilities Act. Do not exceed 1/4 inch per foot cross-slope. Do not exceed 5.0% longitudinal slope on all pedestrian pavements with the exception of ramps. Do not exceed 8.33% longitudinal slope on all ramps.
- The proposed grades shown depict the finished grade (top of asphalt/concrete pavement) of the proposed improvements. A summary of the estimated earthwork is as follows:

Earthwork Required to Reach Finished Grade Elevations:
 Cut = 1,075± CY
 Fill = 1,325± CY (RAW)

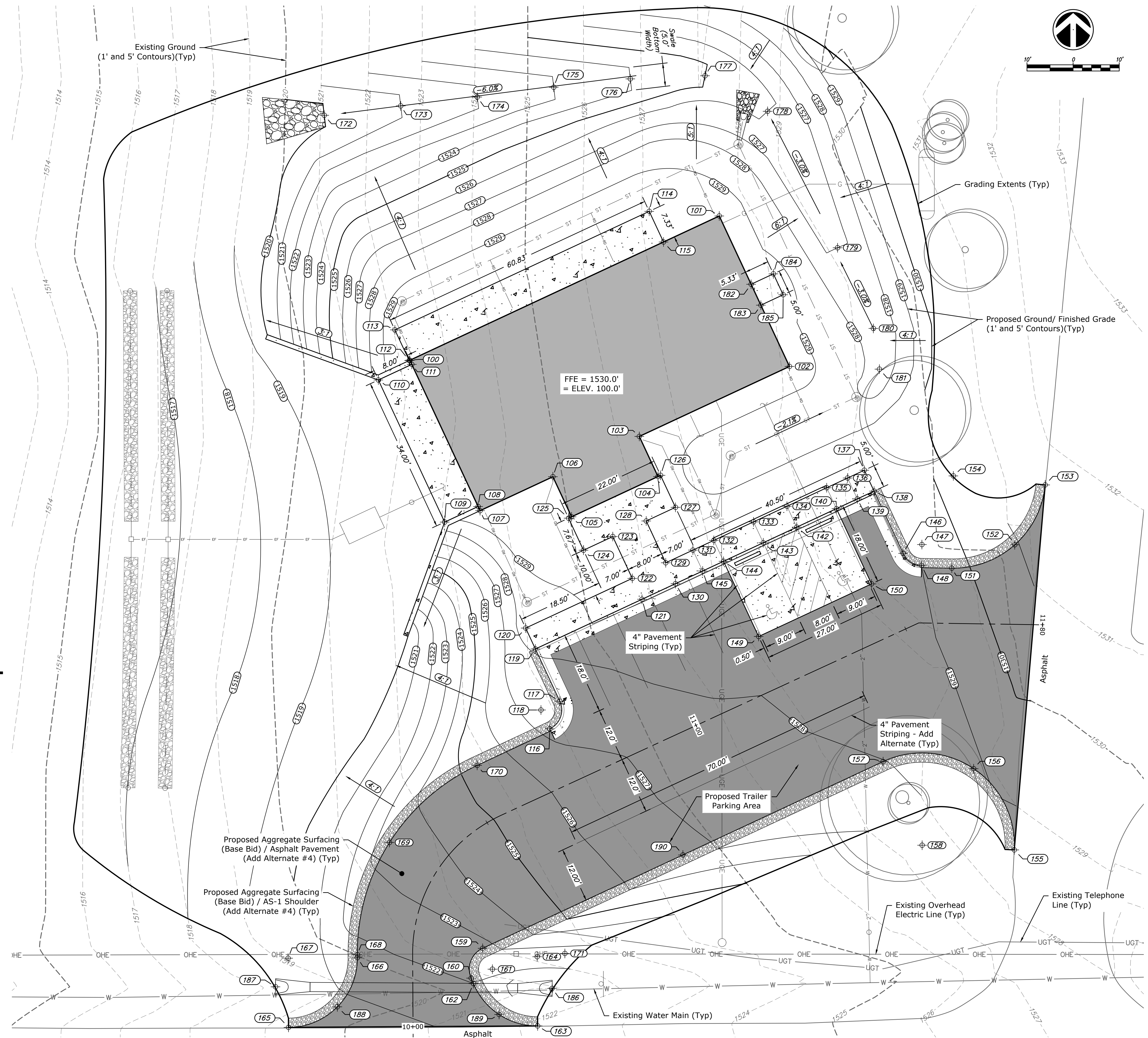
Earthwork Required to Reach Subgrade Elevations:
 Cut = 1,175± CY
 Fill = 975± CY (RAW)

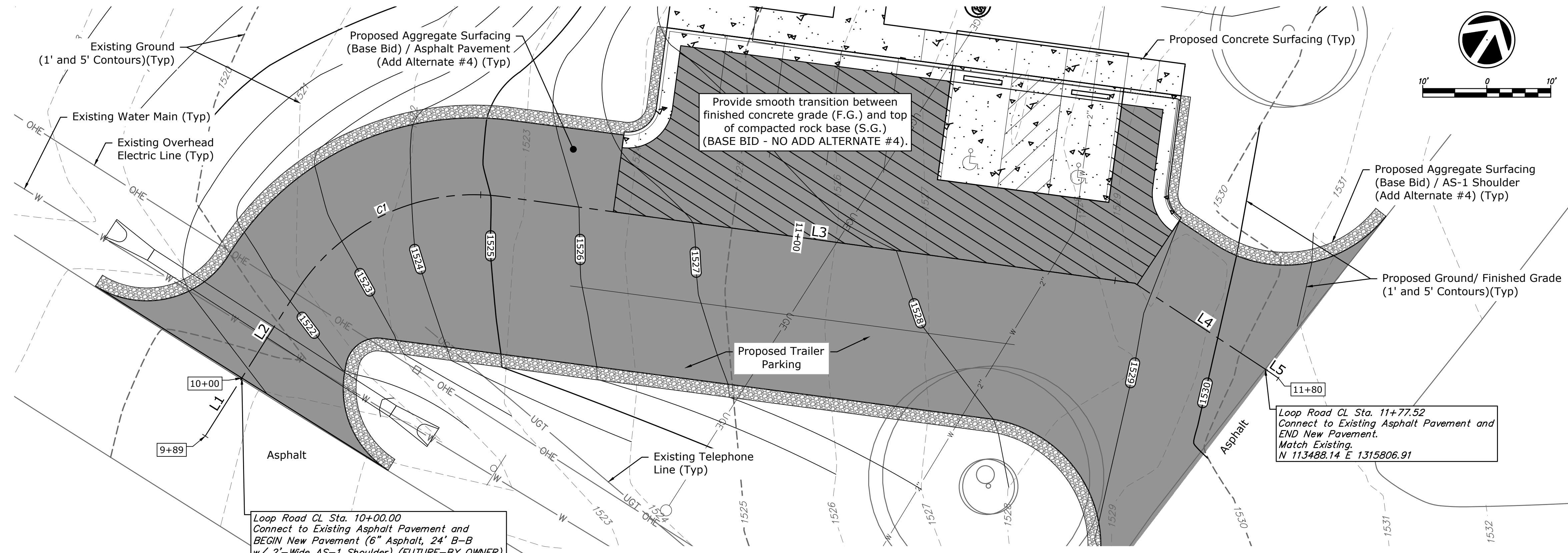
*Note: All fill shall be obtained onsite from the planned excavation or onsite borrow areas designated by the Owner.

- The Contractor shall excavate, haul, and stockpile (as necessary) suitable fill materials for installation in the new construction.
- The Contractor shall take into account rock excavation, soil shrinkage, swelling, topsoil segregation, and general grading operations in the final earthwork considerations.
- Excess excavation shall be wasted or stockpiled onsite, in a manner acceptable to the Owner.

CONSTRUCTION STAKING POINTS:

***See Sheet C100 for construction staking points and related information.





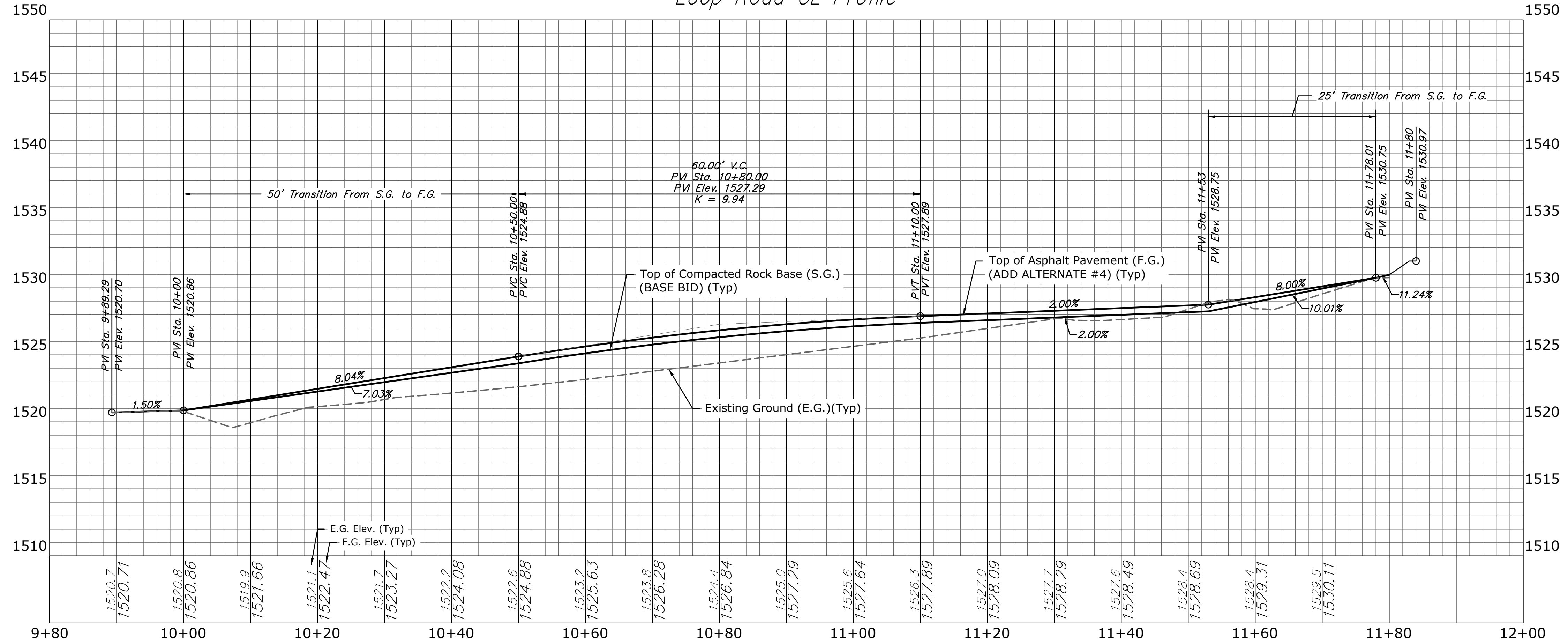
Loop Road Cl. Sta. 10+00.00
 Connect to Existing Asphalt Pavement and
 BEGIN New Pavement (6" Asphalt, 24' B-B
 w/ 2'-Wide AS-1 Shoulder) (FUTURE-BY OWNER).
 Subgrade and 6" Compacted Rock
 Base (THIS PROJECT-BY CONTRACTOR).
 Match Existing.
 N 113400.96 E 1315672.90

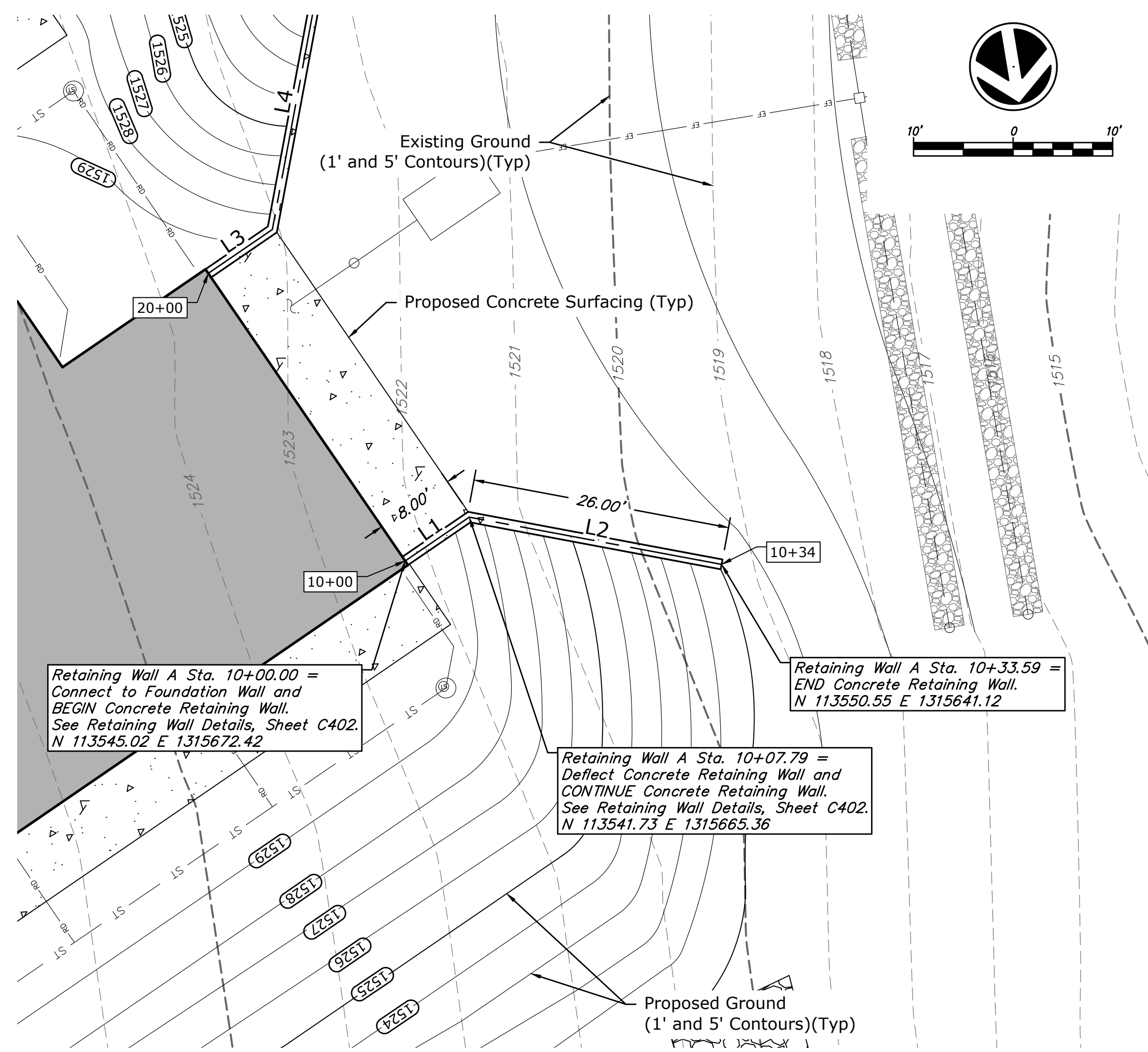
Loop Road Cl. Sta. 11+77.52
 Connect to Existing Asphalt Pavement and
 END New Pavement.
 Match Existing.
 N 113488.14 E 1315806.91

Loop Road CL Alignment Data											
Line/Curve Number	Δ	Radius (ft)	Length (ft)	Tangent (ft)	Chord Length (ft)	Line/Chord Bearing	Start Station	End Station	Start Coordinate	End Coordinate	PI Coordinate
L1	-	-	10.71	-	-	N00°19'17"W	9+89.29	10+00.00	N 113390.25 E 1315672.96	N 113400.96 E 1315672.90	-
L2	-	-	15.67	-	-	N00°20'14"W	10+00.00	10+15.67	N 113400.96 E 1315672.90	N 113416.63 E 1315672.81	-
C1	65°20'14"	33.00	37.63	21.16	35.63	N32°19'53"E	10+15.67	10+53.30	N 113416.63 E 1315672.81	N 113446.73 E 1315691.86	N 113437.79 E 1315672.68
L3	-	-	99.82	-	-	N65°15'32"E	10+53.30	11+53.12	N 113446.73 E 1315691.86	N 113488.51 E 1315782.52	-
L4	-	-	24.89	-	-	S89°08'01"E	11+53.12	11+78.01	N 113488.51 E 1315782.52	N 113488.13 E 1315807.41	-
L5	-	-	1.99	-	-	S88°12'35"E	11+78.01	11+80.00	N 113488.13 E 1315807.41	N 113488.07 E 1315809.39	-

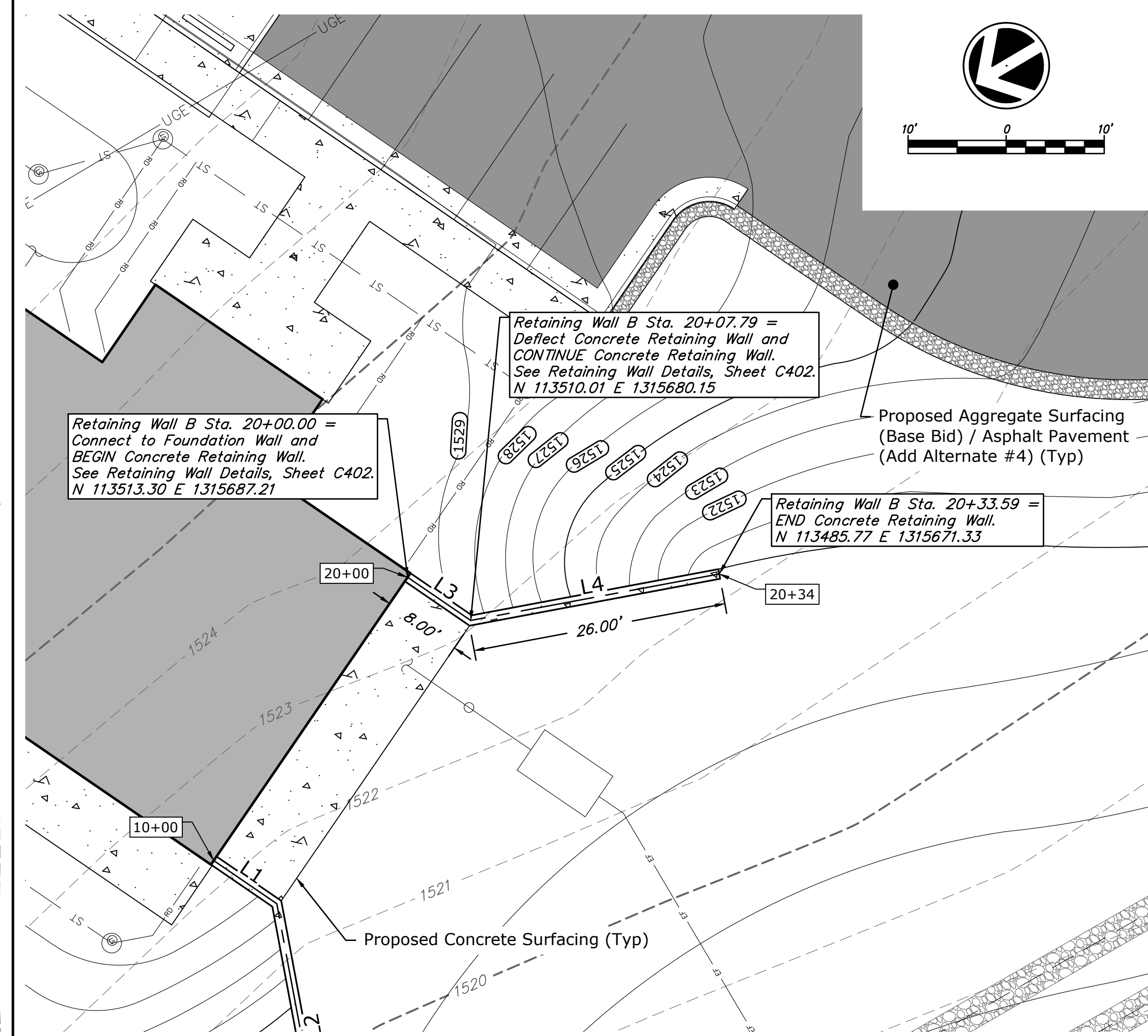
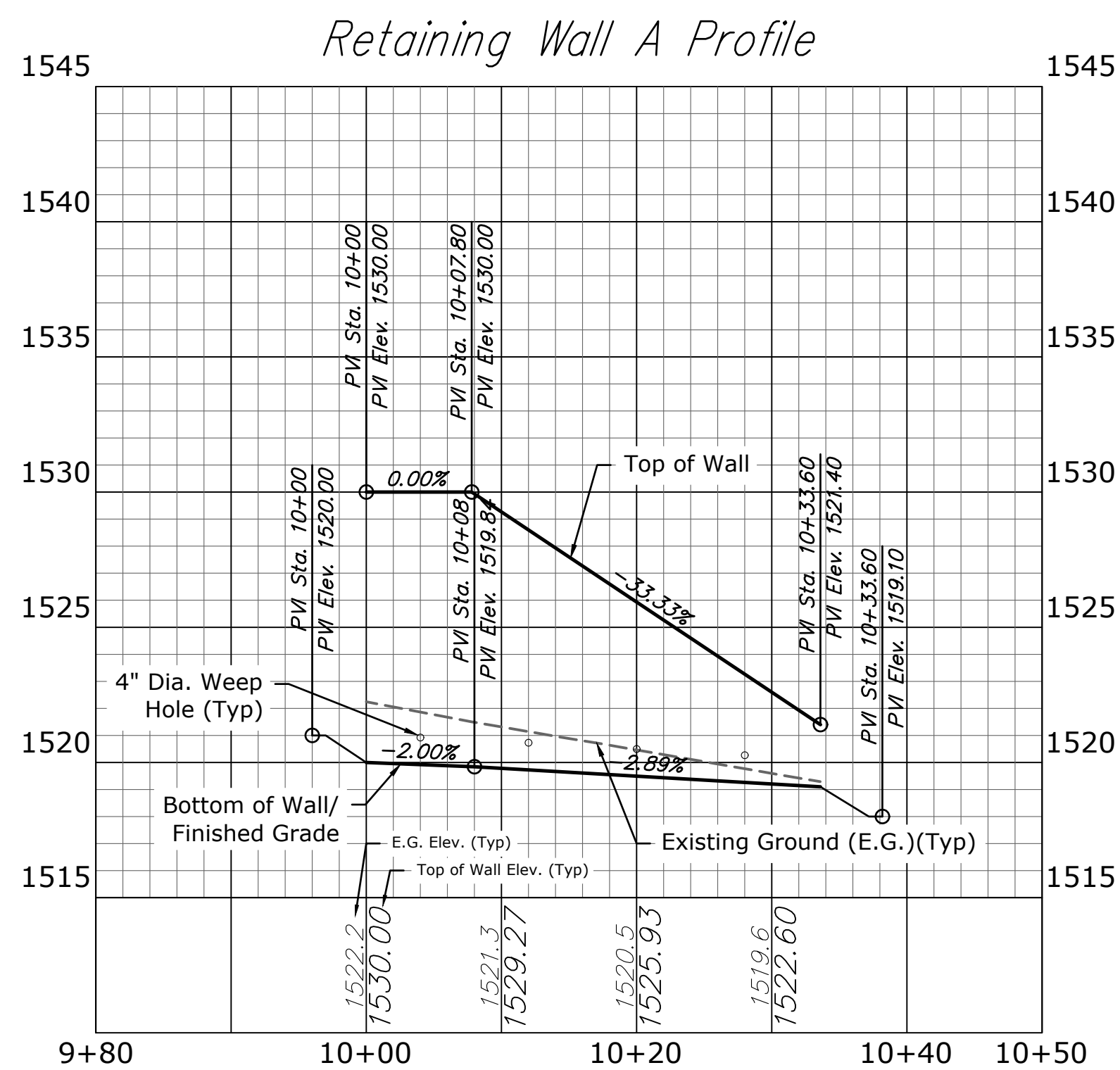
NOTE:
 1. The proposed grades shown depict the finished grade (top of asphalt/concrete pavement) of the proposed improvements.

Loop Road CL Profile

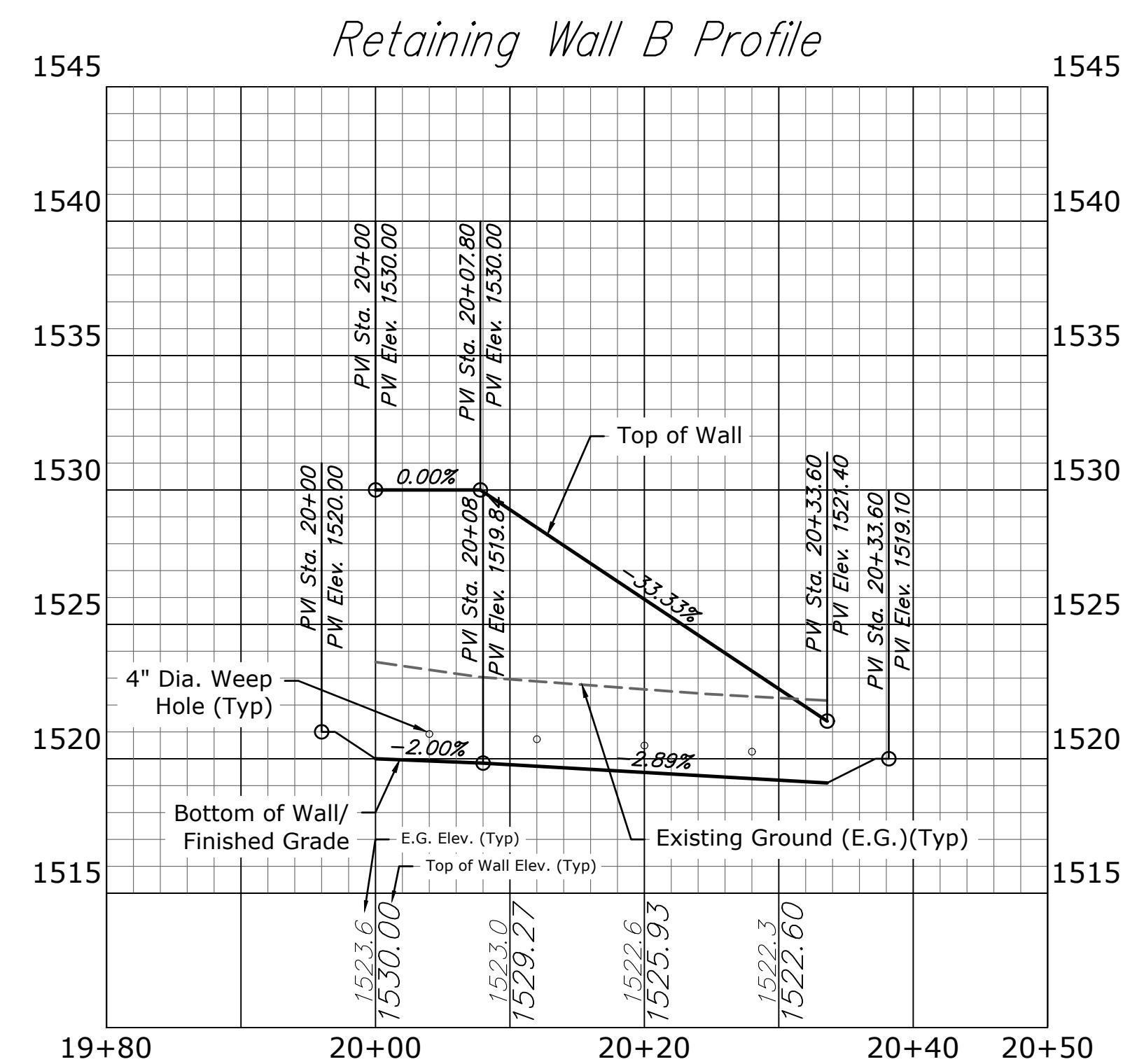




Retaining Wall A Alignment Data						
Line Number	Length (ft)	Bearing	Start Station	End Station	Start Coordinate	End Coordinate
L1	7.79	S65°00'00"W	10+00.00	10+07.79	N 113545.02 E 1315672.42	N 113541.73 E 1315665.36
L2	25.79	N70°00'00"W	10+07.79	10+33.59	N 113541.73 E 1315665.36	N 113550.55 E 1315641.12



Retaining Wall B Alignment Data						
Line Number	Length (ft)	Bearing	Start Station	End Station	Start Coordinate	End Coordinate
L3	7.79	S65°00'00"W	20+00.00	20+07.79	N 113513.30 E 1315687.21	N 113510.01 E 1315680.15
L4	25.79	S20°00'00"W	20+07.79	20+33.59	N 113510.01 E 1315680.15	N 113485.77 E 1315671.33

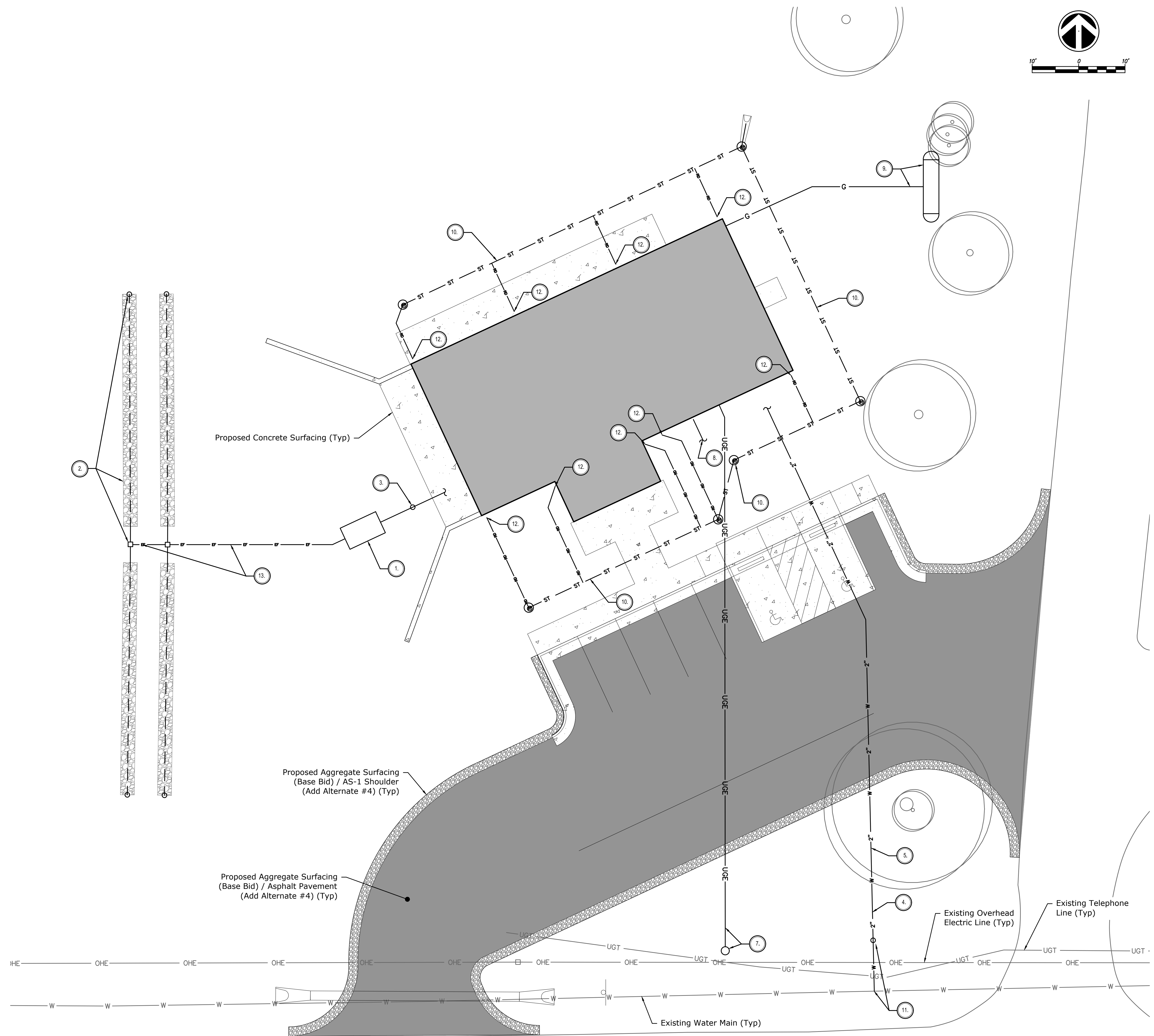


UTILITY SCHEDULE:

1. Install 1,000-gallon (min.) concrete septic tank with two surface risers. See Sheet C305.
2. Install lateral leach field (pipe and gravel system), effluent junction boxes, cleanouts and associated effluent piping (typ). See Sheet C305 and Details, Sheets C402-C403.
3. Install 4" sanitary sewer lateral to building. Install cleanouts at 100' o.c. max. where lateral pipe length exceeds 100 ft and where two laterals connect. See Sheet C305 and Details, Sheets C402-C403 See MEP Plan for building connection details.
4. Connect to new water service line stub at water meter. Water meter and service line stub installed by Owner.
5. Install 2" water service line to Building. See Sheet C305 and Details, Sheet C402. See MEP Plan for building connection details.
6. Not Used.
7. Install pole-mounted transformer and install electrical service line to Building. See MEP Plan for additional information and building connection details.
8. Install 2" fiber optic/telecom conduits (2). See MEP Plan for additional information and building connection details.
9. Install 1,000-gallon propane tank and 3/4" gas line to Building. See MEP Plan for additional information and building connection details.
10. Install roof drain piping and stormwater collection system with area inlets. Connect roof drains to stormwater collection system. See Sheet C305 and Details, Sheet C402.
11. Connect to existing RWD main and install water meter assembly with 1" meter and 10± L.F. of 2" HDPE SDR 9 Water Service Line (BY OWNER).
12. Install downspout connections to roof drain lines (typ). See Sheet C305 and details, Sheet C402.
13. Install 4" effluent piping from septic tank to lateral leach field junction boxes. See Sheet C305 and Details, Sheet C402.

GENERAL NOTES:

1. The existing site information shown hereon is based on a topographic survey performed by Schwab Eaton, January XX, 2024.
2. The Contractor shall field verify the actual locations, bury depths and sizes of all existing utilities prior to commencing construction activities. He shall contact the Kansas One-Call system a minimum of two full business days prior to Work to request marking of utilities by the respective utility owners. He shall directly contact all utility owners not subscribing to the One-Call system.
3. Utilities, including electrical and communication services, shall be installed underground, unless otherwise noted.
4. All building and pole lights shall be shielded by full cut off design to avoid or minimize spillage and glare onto adjacent roadway and surrounding developments.
5. Water and sewer utility lines shall maintain minimum 10' horizontal separation and 2' vertical separation in accordance with KDHE standards. If 2' vertical separation cannot be maintained at a crossing location, pipe segments shall be centered at the crossing and concrete encased.
6. Coordinate with KDWP regarding the time of the removal or relocation of old utility service lines and installation/relocation of new lines. Minimize the time of disturbance to existing utilities.



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Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsefield Rd, Marquette, KS 67464
BUILDING NUMBER 71000-27677
DATE: 09/30/2024 DRAWN BY: Author REV:

Site Utilities
Improvements
Plan

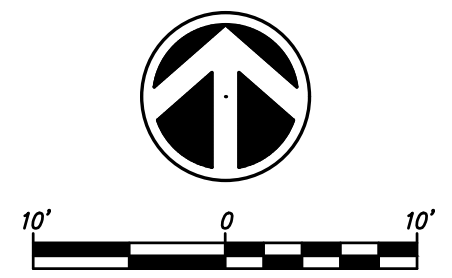
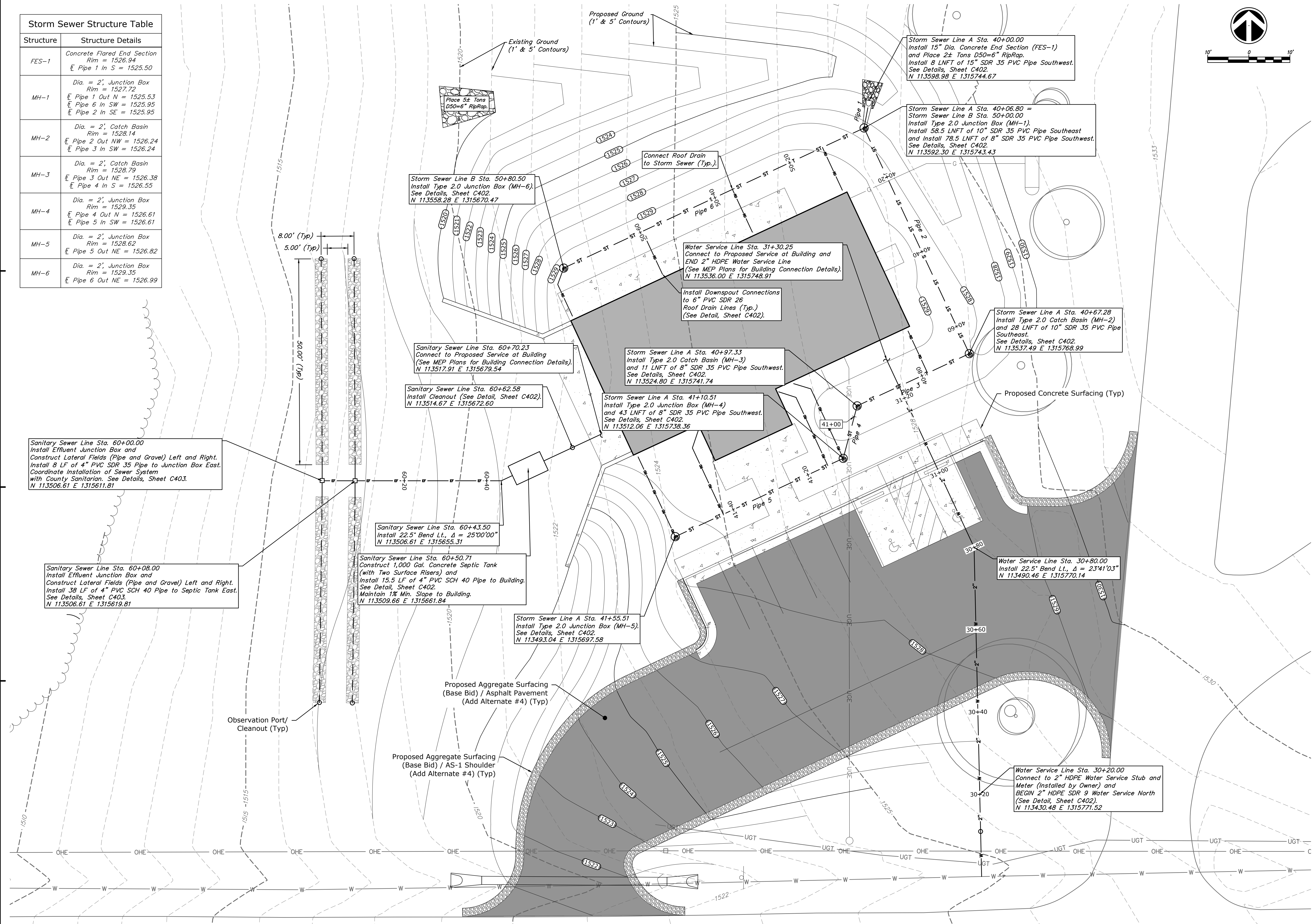
A-015174

C304

CONTRACT
DOCUMENTS

Storm Sewer Structure Table

Structure	Structure Details
FES-1	Concrete Flared End Section Rim = 1526.94 Pipe 1 In S = 1525.50
MH-1	Dia. = 2', Junction Box Rim = 1527.72 Pipe 1 Out N = 1525.53 Pipe 6 In SW = 1525.95 Pipe 2 In SE = 1525.95
MH-2	Dia. = 2', Catch Basin Rim = 1528.14 Pipe 2 Out NW = 1526.24 Pipe 3 In SW = 1526.24
MH-3	Dia. = 2', Catch Basin Rim = 1528.79 Pipe 3 Out NE = 1526.38 Pipe 4 In S = 1526.55
MH-4	Dia. = 2', Junction Box Rim = 1529.35 Pipe 4 Out N = 1526.61 Pipe 5 In SW = 1526.61
MH-5	Dia. = 2', Junction Box Rim = 1528.62 Pipe 5 Out NE = 1526.82
MH-6	Dia. = 2', Junction Box Rim = 1529.35 Pipe 6 Out NE = 1526.99



EROSION CONTROL SCHEDULE:

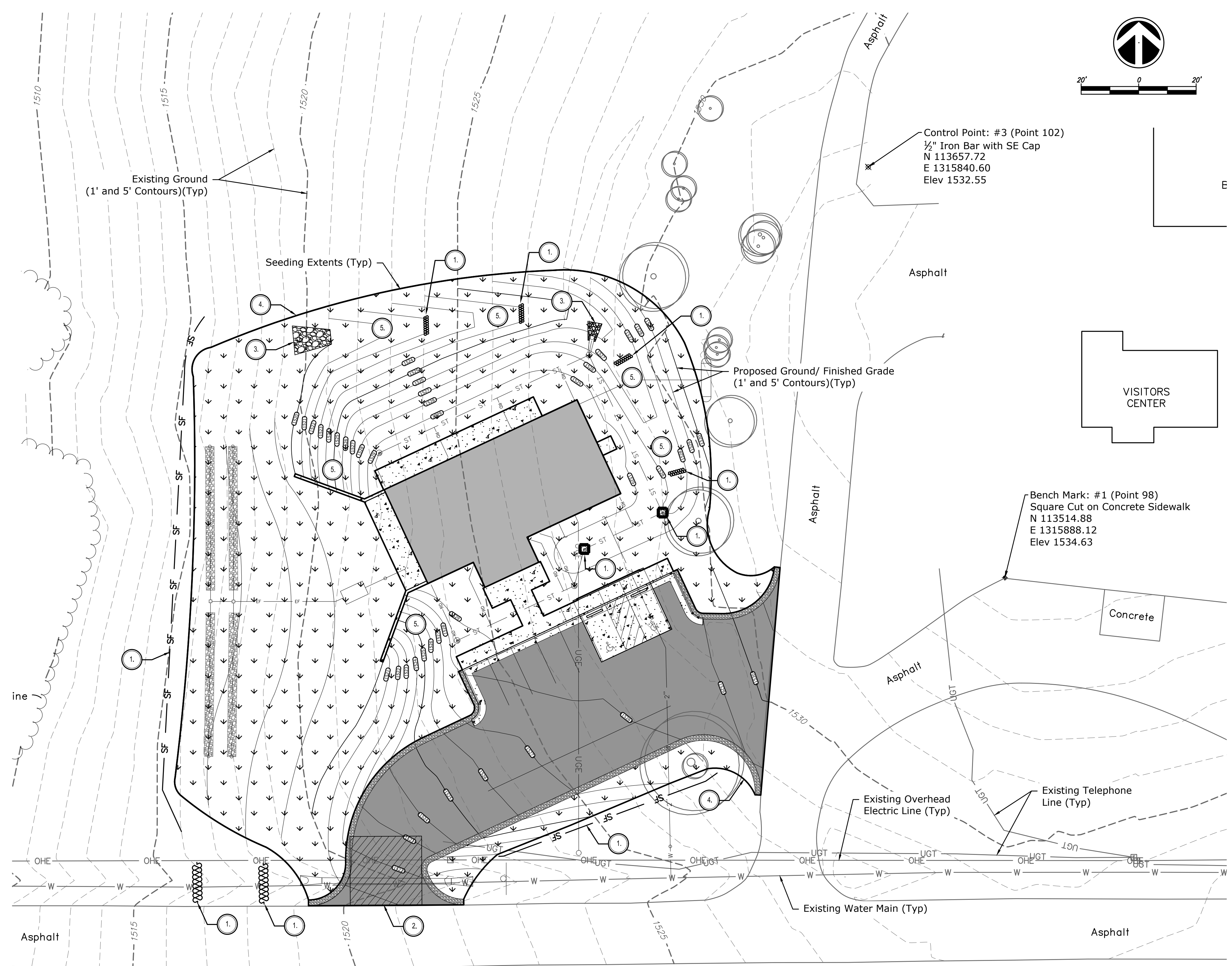
1. Install silt fence, straw wattle, or acceptable silt barrier. See Erosion Control Details, Sheet C404.
2. Tentative location for stabilized temporary construction entrance. Actual entrance location shall be determined at Pre-Construction Meeting. See Erosion Control Details, Sheet C404 for details.
3. Install D₅₀=6" riprap at runoff discharge points.
4. Seed and mulch disturbed areas (0.5± acres).
5. Install erosion control blanket on slopes exceeding 3:1 (horizontal:vertical) and in areas of concentrated stormwater runoff. See Erosion Control Details, Sheet C404.

GENERAL NOTES – EROSION CONTROL AND SEEDING:

- **SUBMITTALS:**
 - Product data for manufactured BMP materials and seed mixes.
- **SILT FENCE:**
 - Synthetic, woven, UV stabilized, geotextile specifically manufactured for erosion control applications.
- **EROSION CONTROL BLANKET (ECB):**
 - Type I ECB: Provide woven mesh consisting of un-dyed, unbleached, smolder-resistant, biodegradable natural jute or coir fiber. Mesh shall be manufactured specifically for erosion control applications. Minimum weight shall be 14 oz. per square yard. Minimum yarn count shall be 19 per foot width (warp) and 14 per lineal foot length (weft). Use manufacturer's standard anchoring staples.
 - Type II ECB: Provide heavy-duty bio-degradable blanket consisting of a matrix of approximately 70% straw and 30% coconut fiber bound top and bottom with medium to heavy-weight plastic netting. Minimum weight shall be 8 oz. per square yard. ECB shall be capable of resisting a minimum shear stress of 2.0 lbs. per square foot. Use manufacturer's standard anchoring staples.
- **TEMPORARY SEEDING:**
 - Annual Ryegrass with a minimum purity of 90% and less than 1/2% pernicious weed content sown at a rate of 1/2 lb. (pure, live seed) per 1,000 sq ft
- **PERMANENT SEEDING:**
 - **Schedule:** Cool Season Grass: Perform seeding between January 1st and May 1st or between August 15th and December 31st. Warm Season Grass: Perform seeding between January 1st and July 30th and November 1st and December 31st. Seeding at other times shall not be performed without prior authorization of the Engineer and may be subject to an extended Turf Establishment Period.
 - **Seed:** Fresh, clean, new crop, certified seed.
 - **Cool Season Grass Seed Mixture:**

ITEM	POUNDS PER ACRE
• Fertilizer (12-24-12)	400 lbs
• Annual Rye Grass	20 pls
• Bromegrass	60 pls
• Fescue K-31	160 pls
• Prairie Hay Mulching	1.5 Tons
 - **Warm Season Grass Seed Mixture:**

ITEM	POUNDS PER ACRE
• Annual Rye Grass	20 pls
• Buffalo Grass (treated)	7.2 pls
• Blue Grama	1.8 pls
• Side Oats Grama	1.8 pls
• Indian Grass	3.6 pls
• Switch Grass	1.8 pls
• Western Wheat Grass	8.0 pls
• Prairie Hay Mulching	1.5 Tons
 - **Fertilizer:** Fertilizer shall be commercial grade, uniform in composition, free flowing, conforming to all applicable state and federal laws.
- **BMP INSTALLATION AND MAINTENANCE:**
 - Prior to beginning earthwork operations, place and install silt fence along perimeter of area(s) to be disturbed at locations to prevent silt and sediment from leaving the site and entering existing storm drainage systems, waterways and environmentally sensitive areas.
 - All BMPs shall be installed and maintained in accordance with the KDOT *Temporary Erosion Control Manual* (published in 1997) or other proposed through the SWPPP acceptable to the Engineer.
 - Review condition of BMP's after installation on a weekly basis and after each rainfall event where 1/2-inch precipitation or more occurs within a 24-hour period. Remove sediment accumulation from sediment traps, basins and other catchment locations and restore to the site in a manner acceptable to the Engineer.
 - Remove temporary BMPs when permanent erosion control measures are in place and turf is re-established, unless otherwise specified.
- **SEEDING, MULCHING AND MAINTENANCE:**
 - Areas to be seeded shall contain a minimum of 6-inches of good quality topsoil free of rocks, sticks, roots, broken glass, debris and toxic substances.
 - Uniformly apply seed and incorporate into top 1/4" of topsoil by drilling, broadcasting and harrowing, or another acceptable method.
 - Uniformly distribute mulch as a continuous blanket. Anchor mulch by "crimping" or by applying an acceptable non-asphaltic tackifier.
 - Maintain all seeded areas throughout Turf Establishment Period by mowing, watering and fertilizing and by controlling weeds, disease, harmful insects and erosion.
 - Lawn areas found not acceptable at the conclusion of the Turf Establishment Period shall be reseeded in accordance with these specifications or in a manner acceptable to the Engineer.
- **WARRANTY:**
 - Provide written warranty against poor stand, unhealthy turf, weed intrusion, bare spots, and erosion for the Turf Establishment Period.
 - Turf Establishment Period is defined as the longest of the following:
 - From seeding time to three months thereafter.
 - From seeding time to Project Substantial Completion.



EROSION CONTROL NOTES:

1. The existing site information shown hereon is based on a topographic survey performed by Schwab Eaton, December 20, 2023.
2. The Contractor shall field verify the actual locations, bury depths and sizes of all existing utilities prior to commencing construction activities. He shall contact the Kansas One-Call system a minimum of two full business days prior to Work to request marking of utilities by the respective utility owners. He shall directly contact all utility owners not subscribing to the One-Call system.
3. Provide temporary erosion control measures as indicated on the plans and required by the specifications. Initial BMPs shall be installed on project perimeter prior to commencing earthwork operations.
4. All disturbed areas shall be seeded and mulched in accordance with the seeding and landscaping specifications.
5. Maintain BMPs throughout construction. Remove accumulated silt as required to keep BMPs in functioning condition.
6. Keep local streets clean and free of tracked mud from the site. Use the construction entrance for all ingress and egress of construction vehicles, equipment, and deliveries.

Kansas
Department of
Wildlife and Parks

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LS&A
Latimer Sommers
& Associates, P.A.

Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsethief Rd, Marquette, KS 67464
BUILDING NUMBER 71000-27677
DATE: 09/20/2024 DRAWN BY: Author REV:

Erosion Control
Plan

A-015174

C306

CONTRACT
DOCUMENTS

THICKNESS "T":

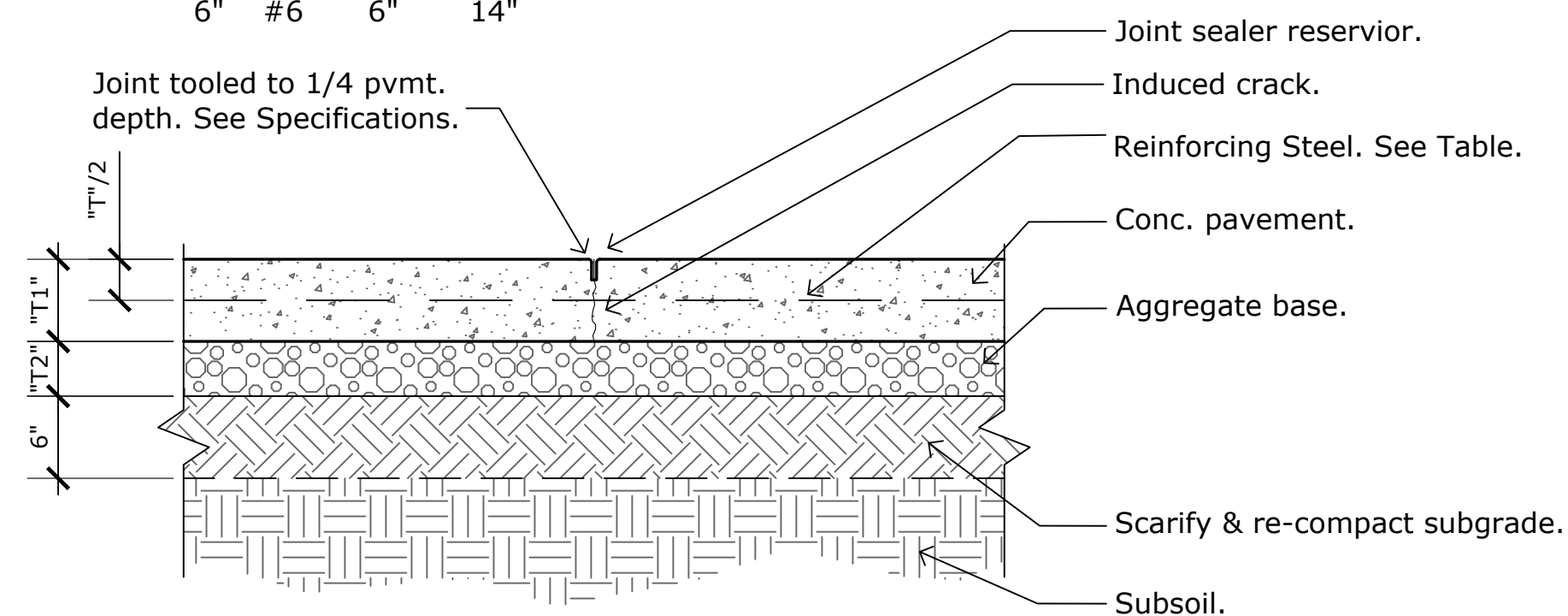
"T1" = 6" for sidewalk, driving, and parking areas.
"T2" = 4" for sidewalk, 6" for driving and parking areas.

REINFORCING STEEL

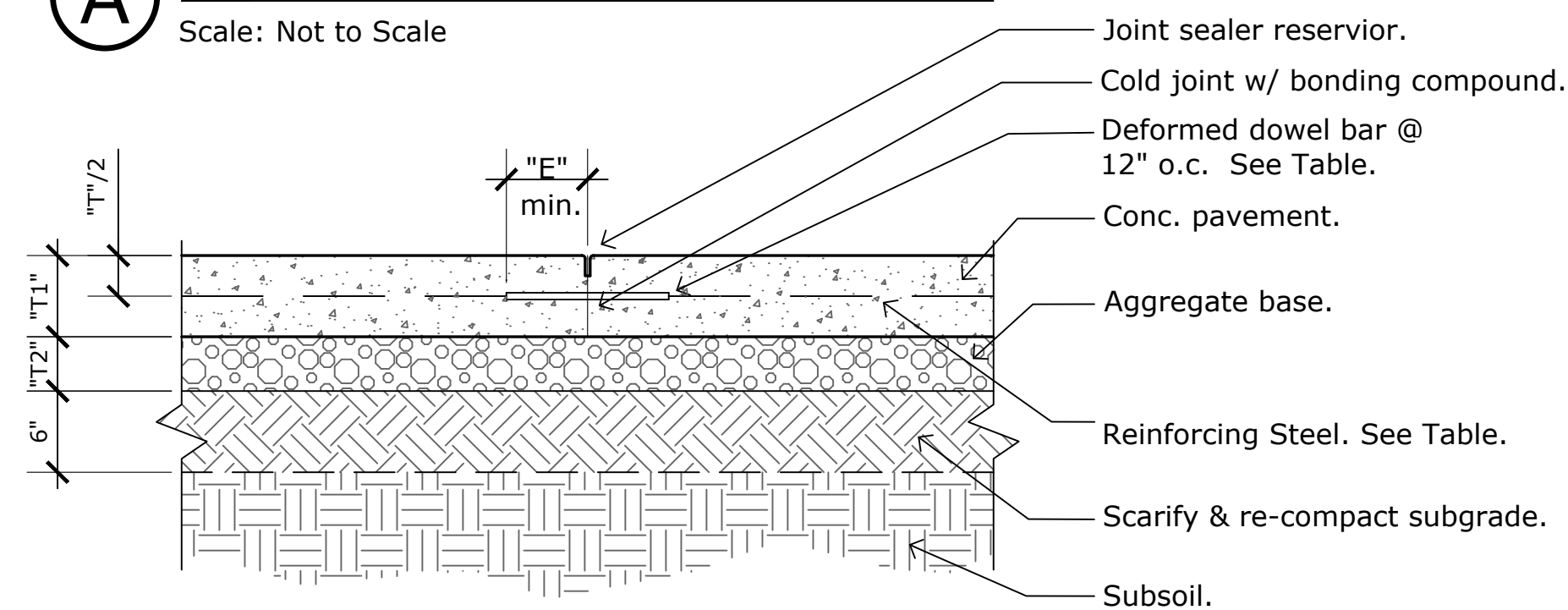
Area	Reinforcing Steel
Sidewalk	6"x6"/W2.9xW2.9 welded wire mesh.
Driving/Parking	#4 rebar on 18" centers.

DOWEL BAR SIZE

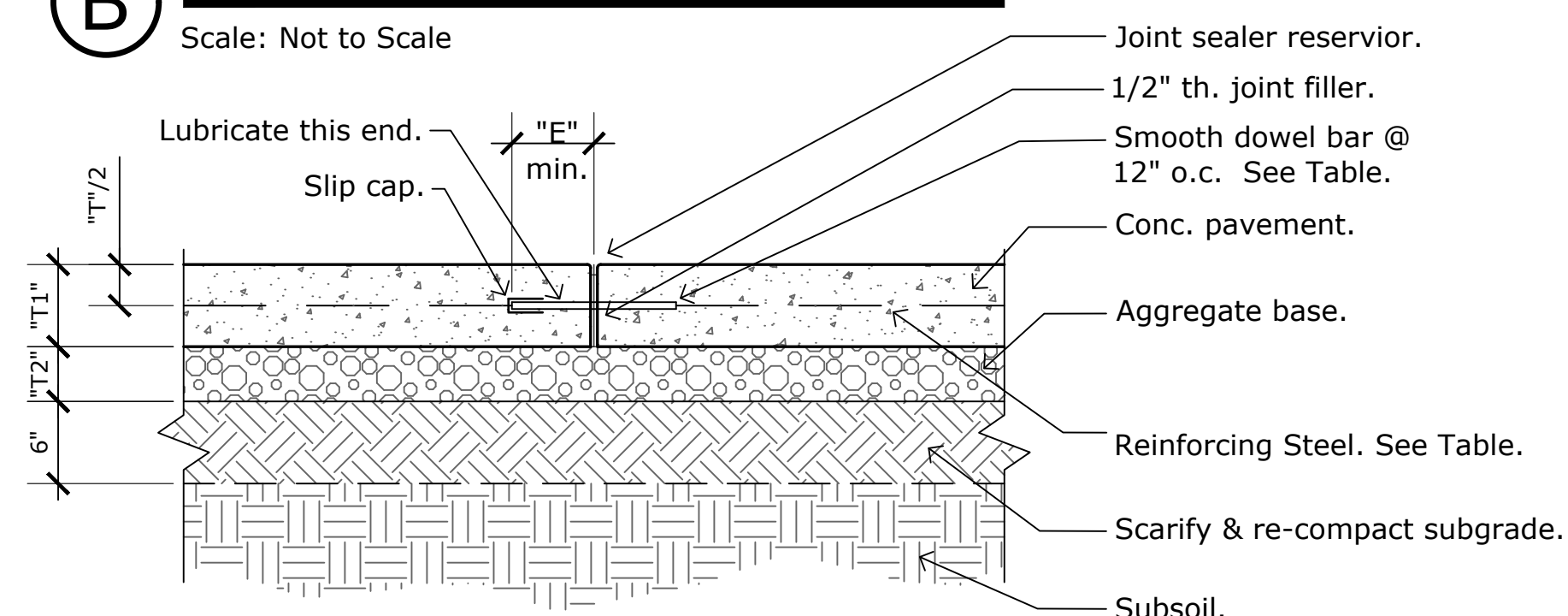
"T" Dia.	"E" Length
6" #6	14"



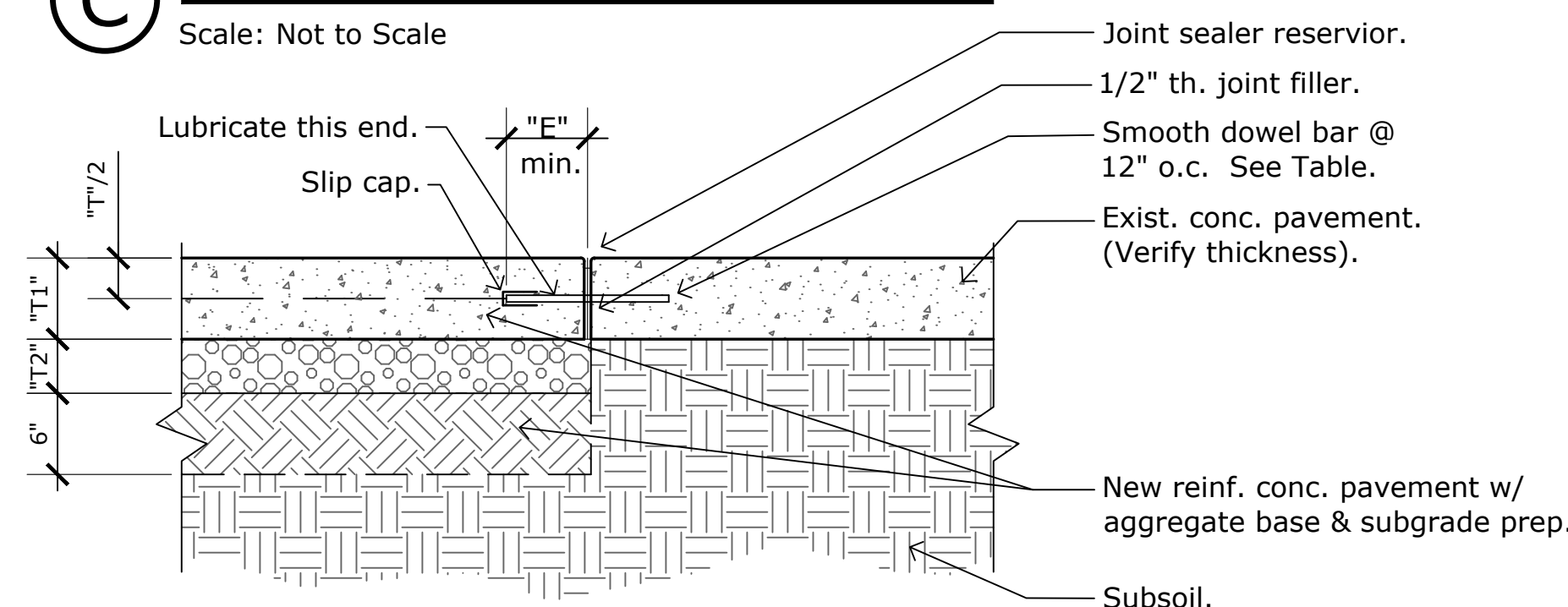
A TYP. CONTRACTION JOINT
Scale: Not to Scale



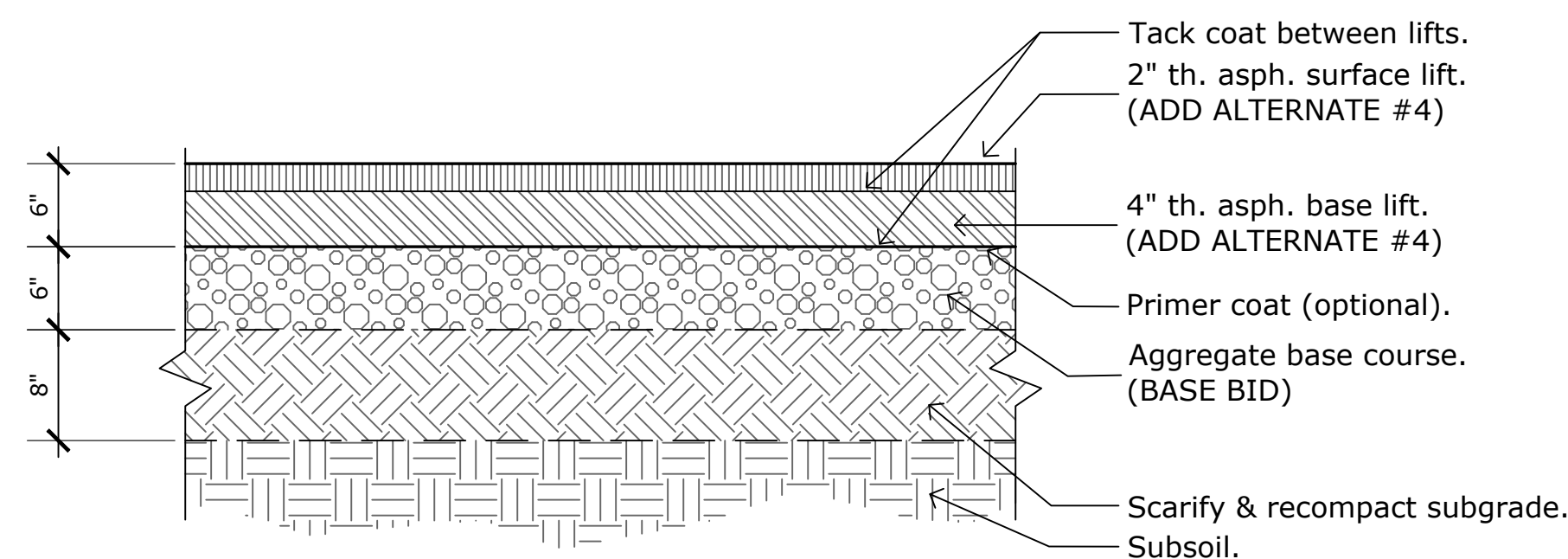
B TYP. CONSTRUCTION JOINT
Scale: Not to Scale



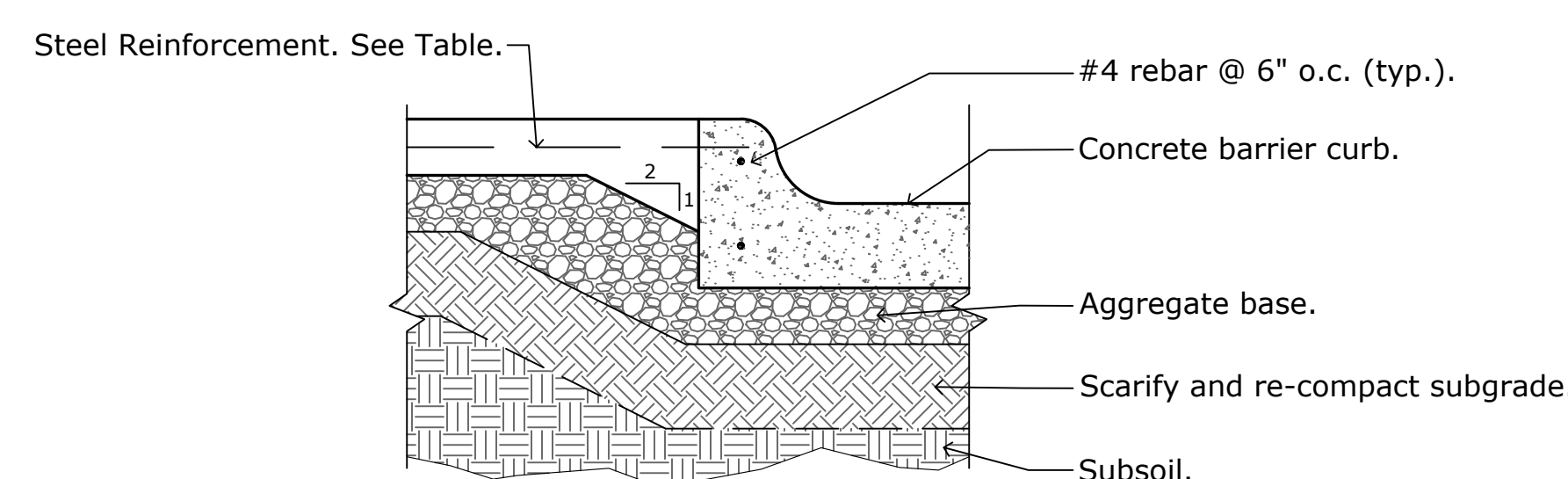
C TYP. EXPANSION JOINT
Scale: Not to Scale



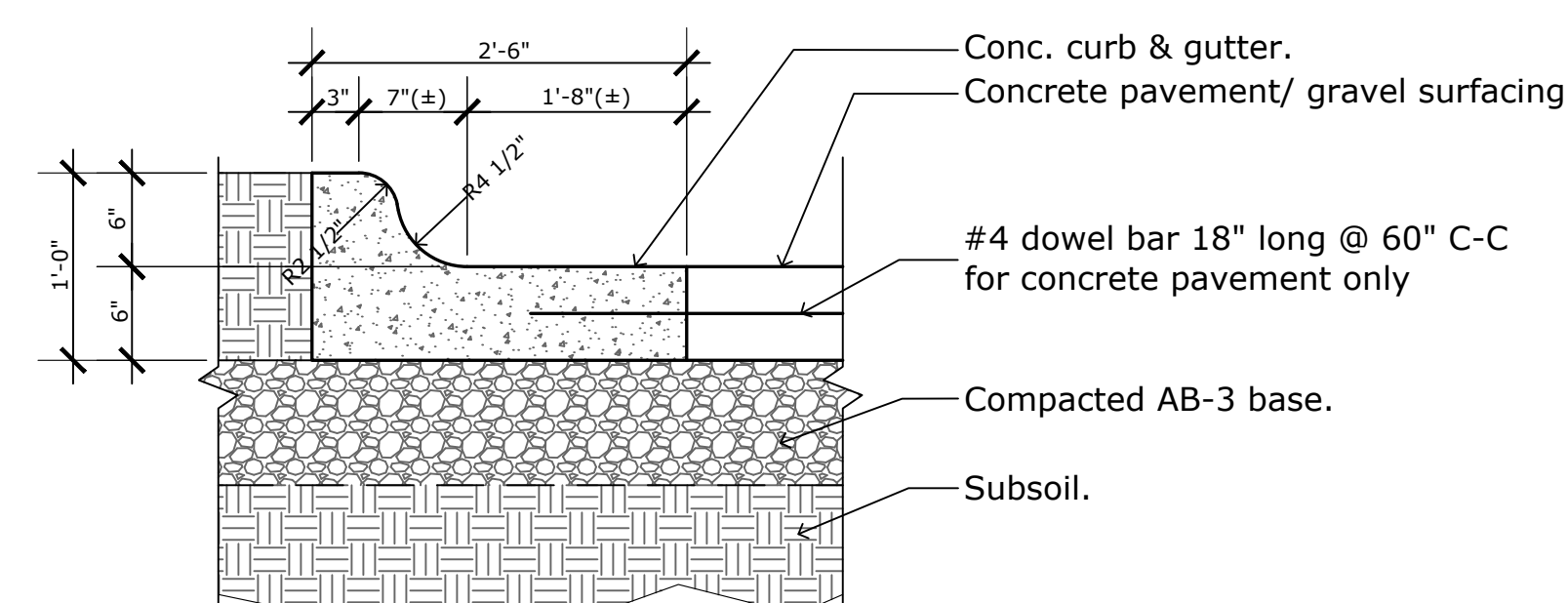
D TYP. EXPANSION JOINT AGAINST EXIST. CONC. PVG.
Scale: Not to Scale



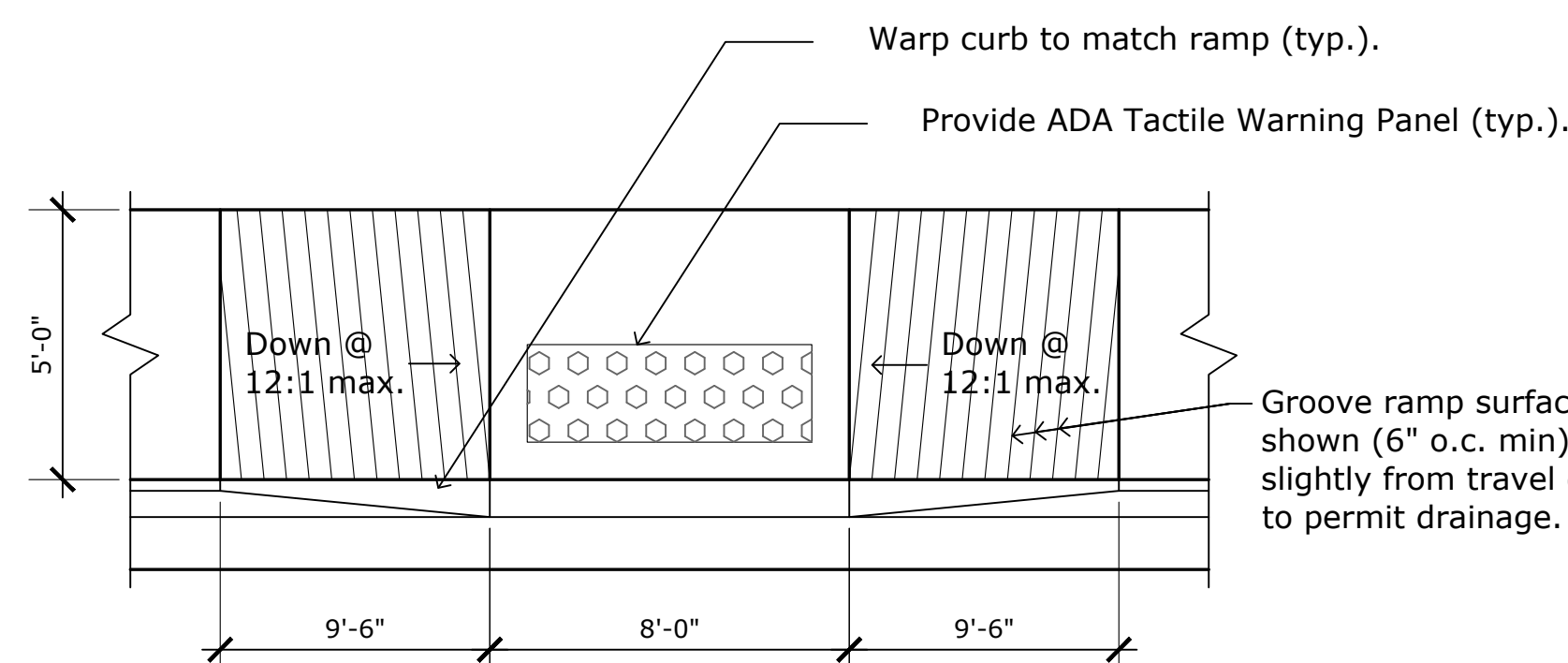
E TYP. ASPH. PVMT. SECTION (6")
Scale: 1" = 1'-0"



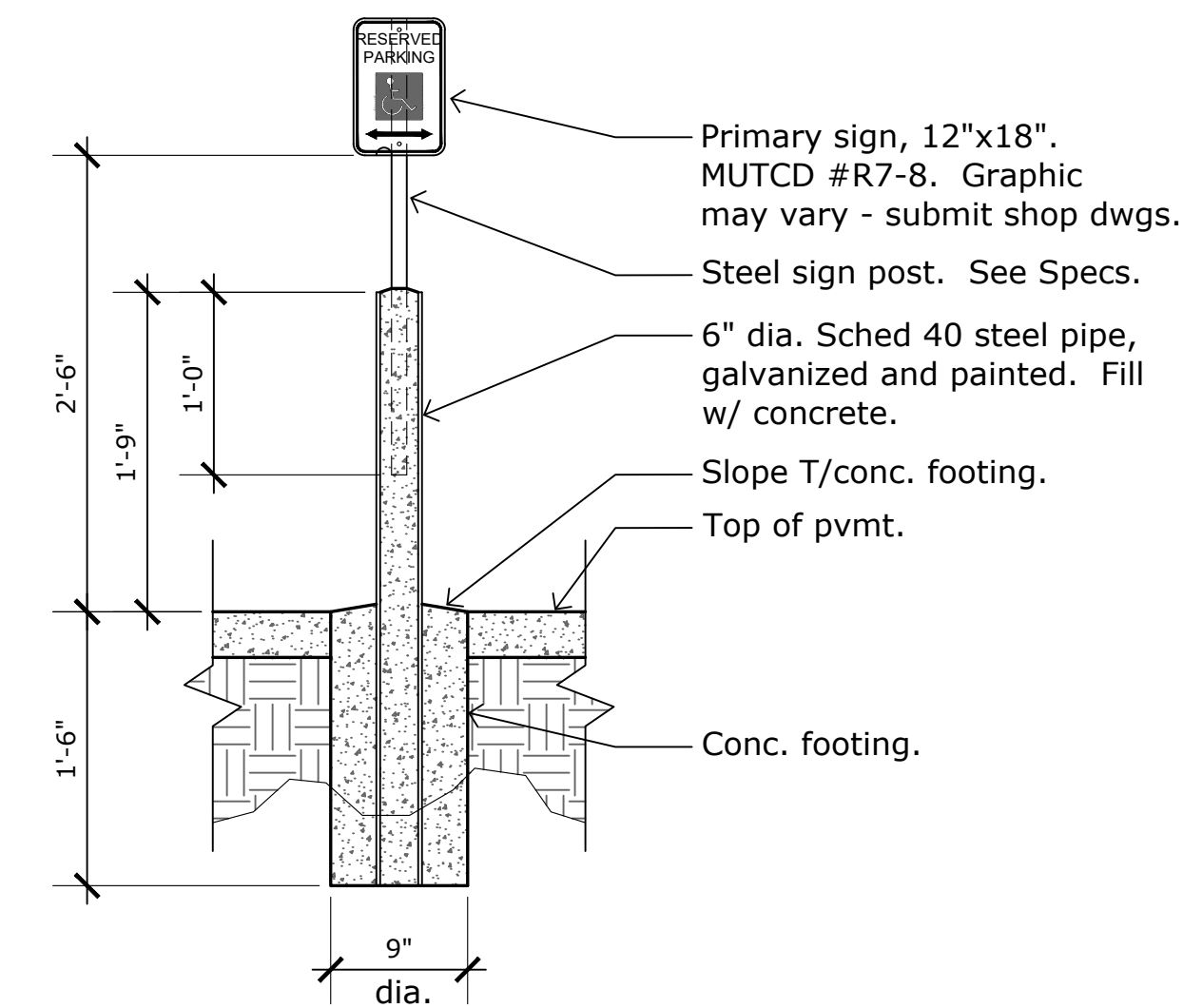
F SIDEWALK W/ TYP. CONC. BARRIER CURB
Scale: Not to Scale



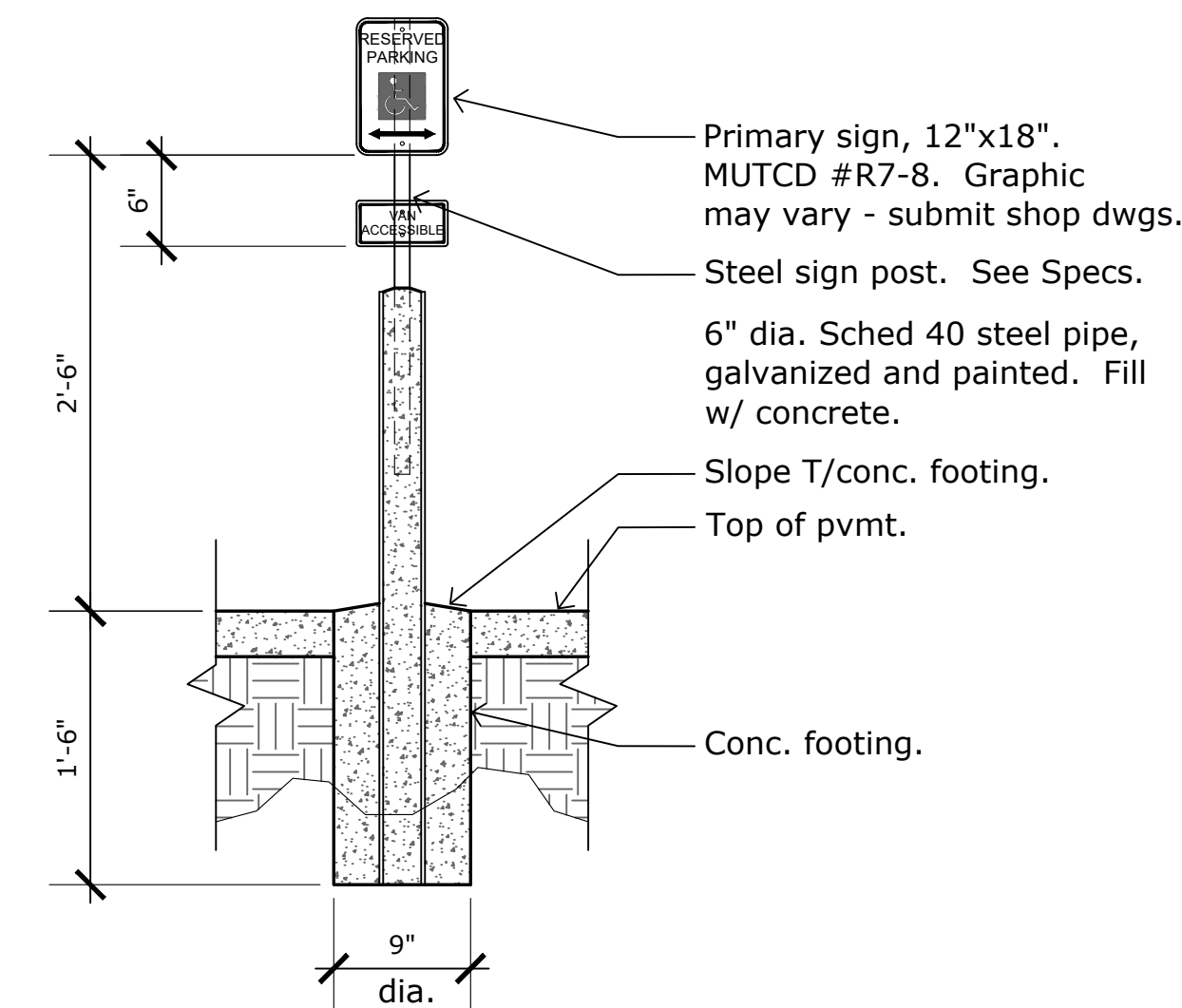
G TYP. CONC. BARRIER CURB
Scale: Not to Scale



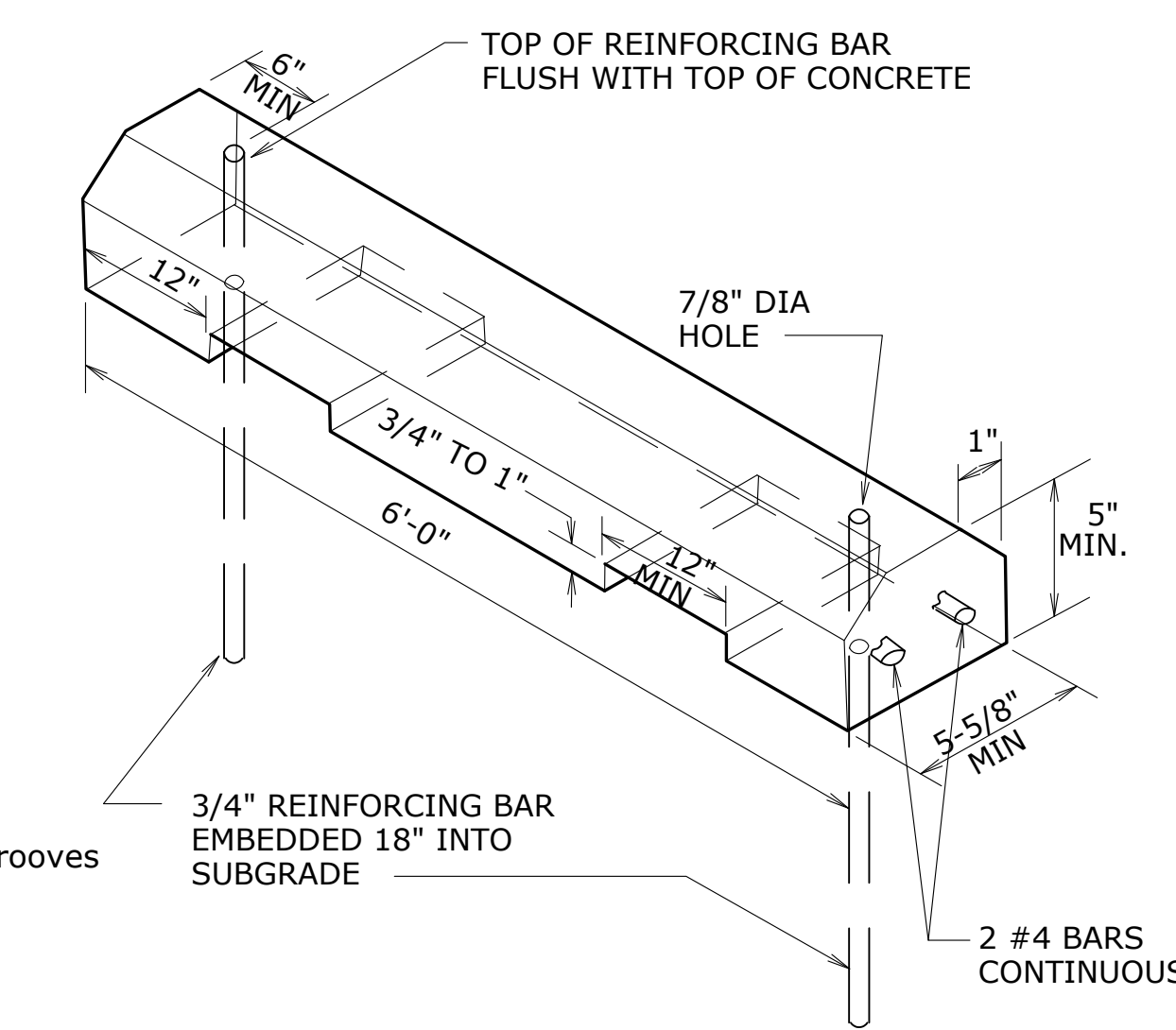
H SIDE-LOAD CURB RAMP (PLAN)
Scale: Not to Scale



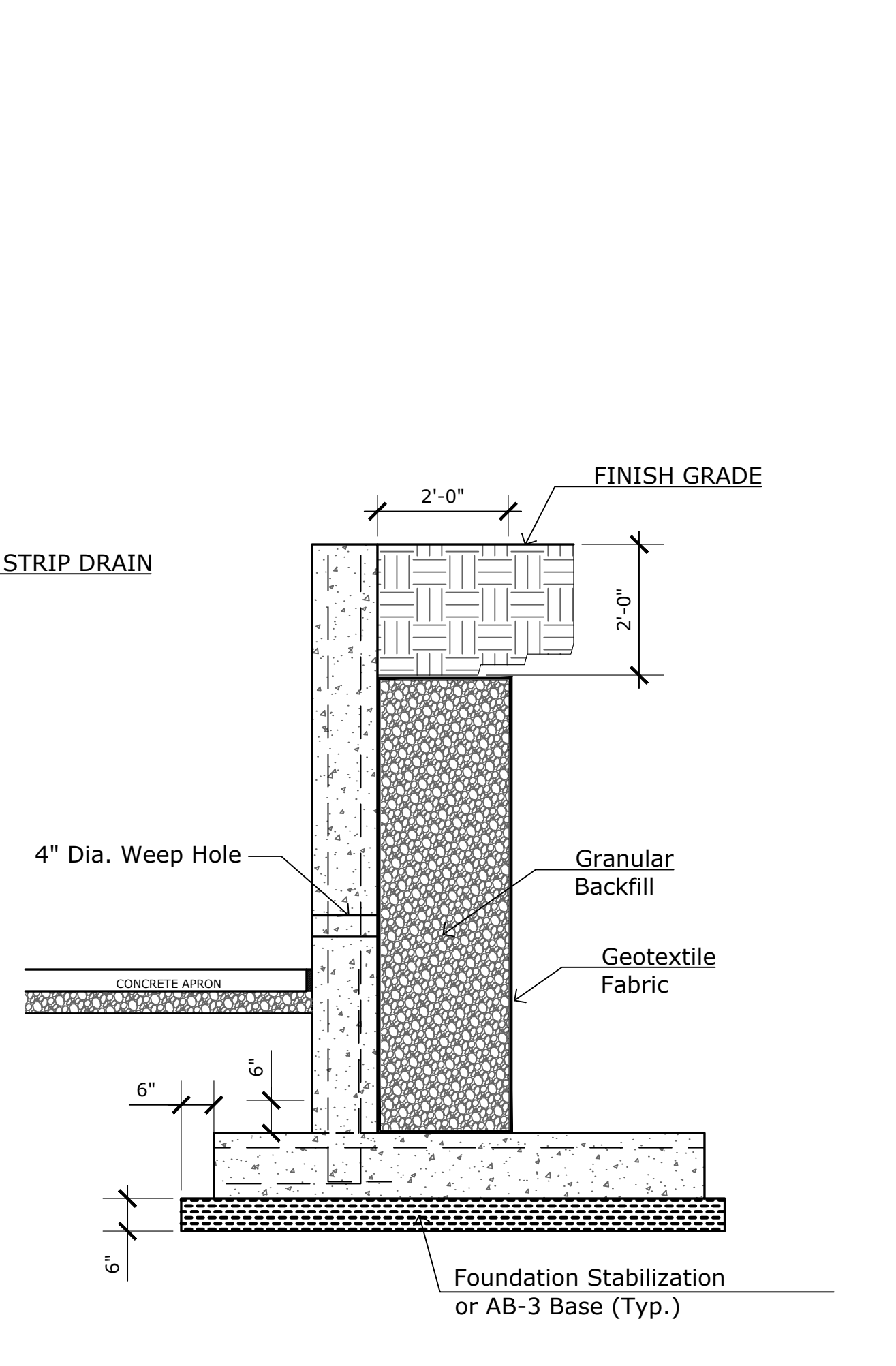
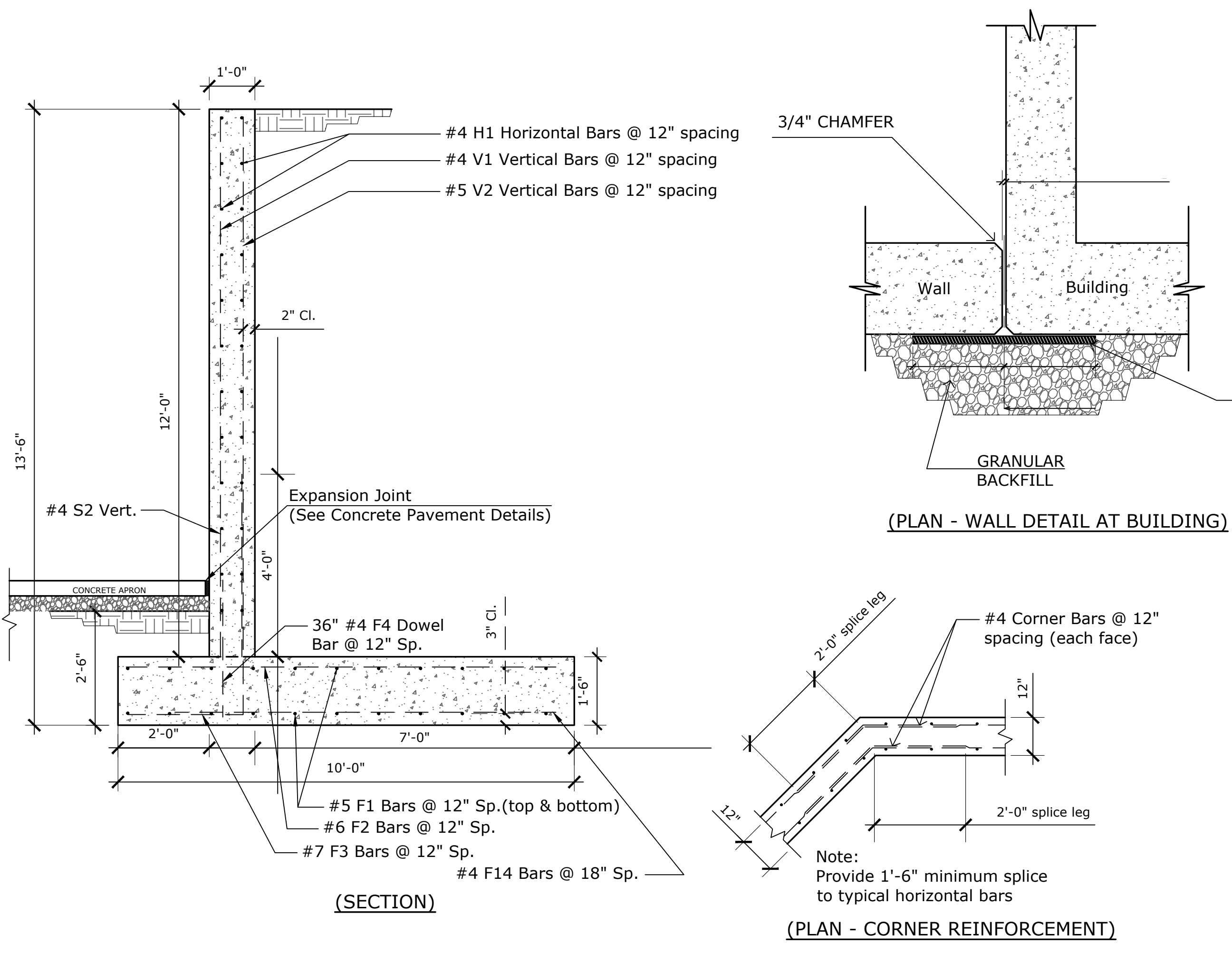
I A.D.A. RESERVED PARKING SIGN WITHIN PARKING LOT PAVED AREA
Scale: Not to Scale



J A.D.A. RESERVED PARKING SIGN - VAN ACCESSIBLE LOCATIONS
Scale: Not to Scale



K PARKING BUMPER (PRECAST CONCRETE).
Scale: Not to Scale

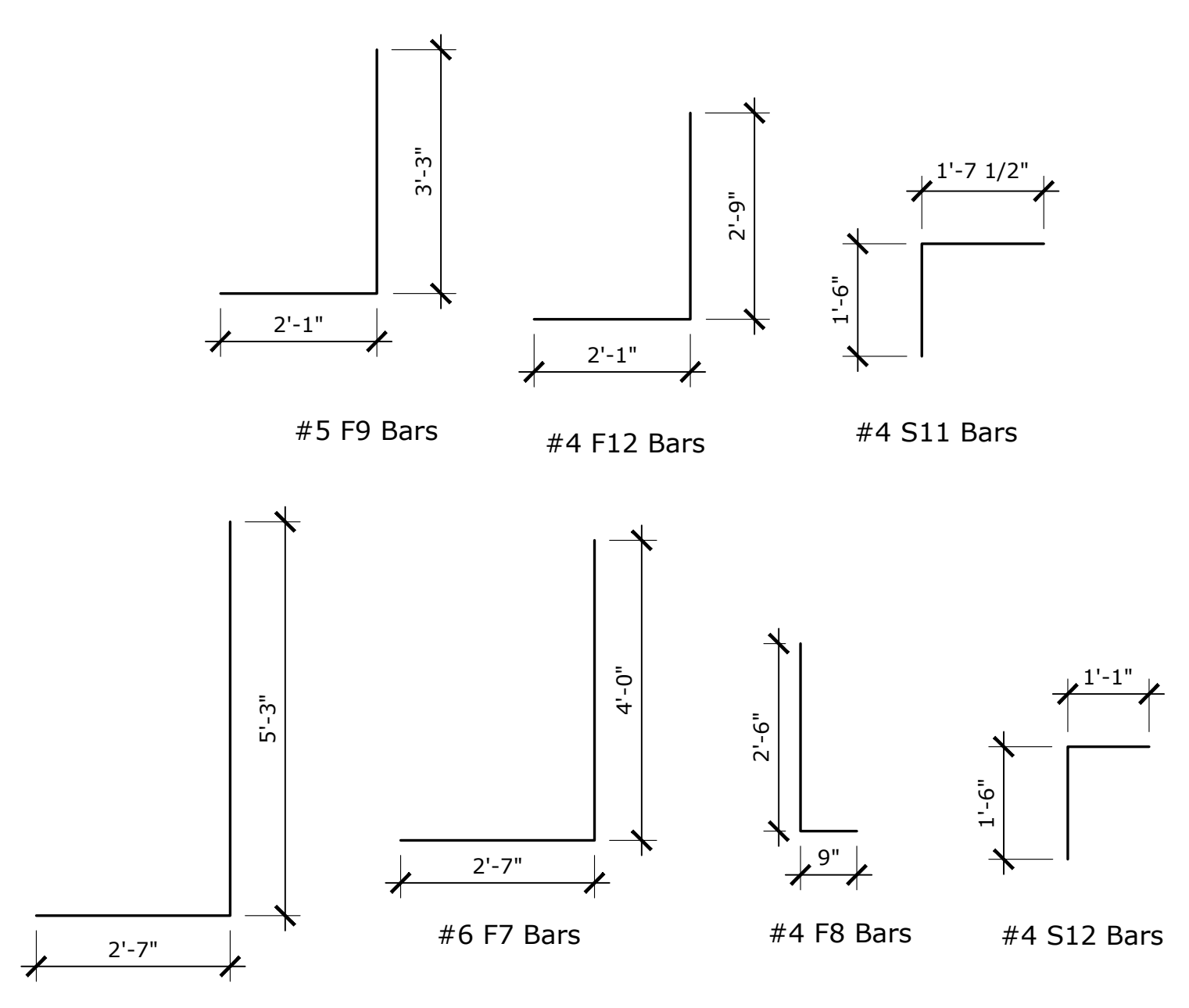
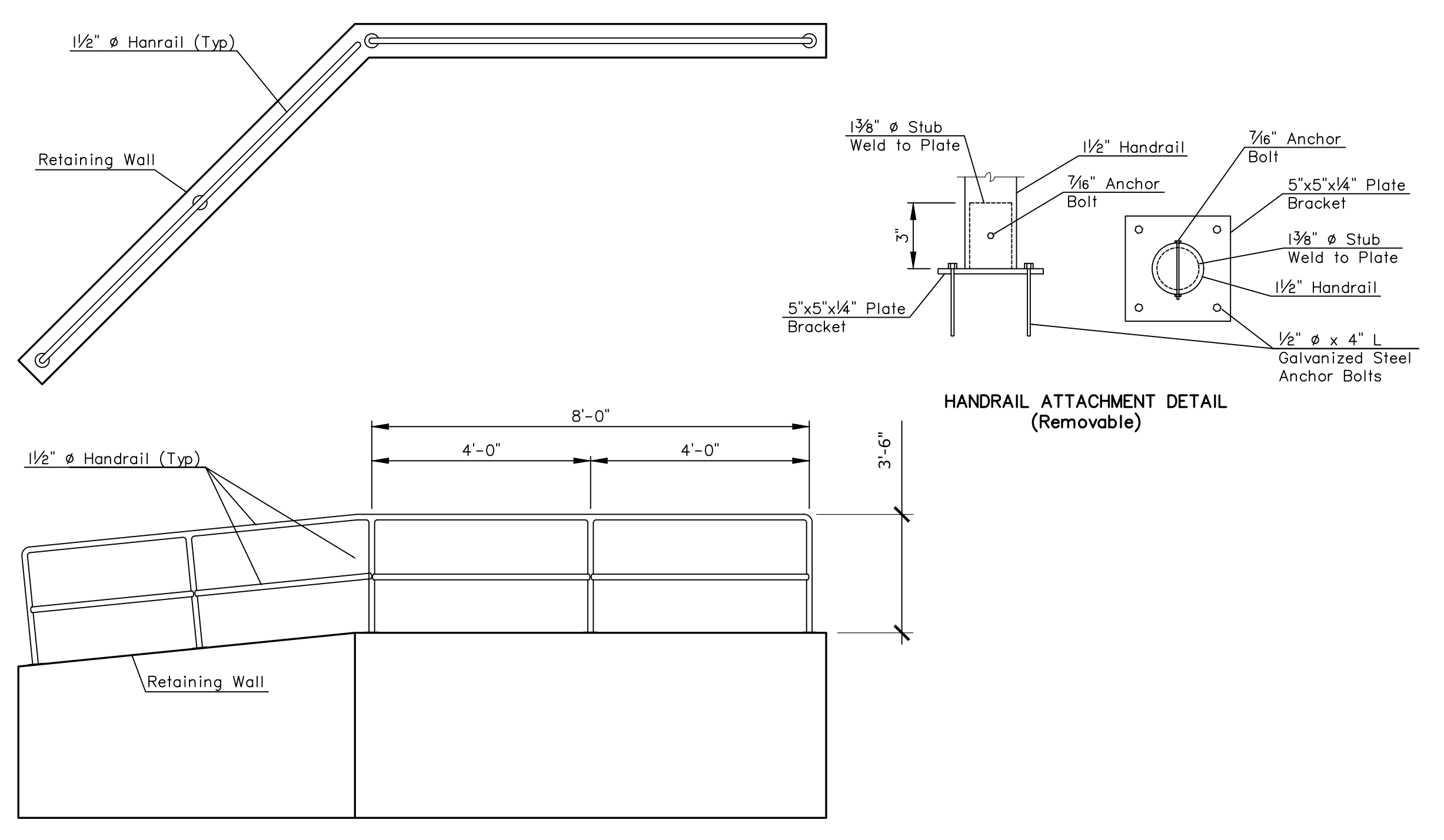


GENERAL NOTES
 DESIGN SPECIFICATION: International Building Code, 2009 Edition.
 DESIGN LOADING:
 Unit Weight of Soil: 120 lb/ft³
 Analysis Type: Rankine Active Earth Pressure
 Friction Angle: 27 Degrees
 Cohesion: 0 psf
 F.S. for OT: 1.5
 F.S. for Sliding: 1.5
 UNIT STRESSES: Concrete (Grade 4.0) $f_c = 4,000$ psi
 Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
 CONCRETE: All Materials, Labor and Work shall be done in accordance with KDOT's Division 400 and Division 700 Standard Specifications, 2007 Edition. Use concrete conforming to Grade 4.0 (AE) Concrete. Bevel all exposed edges with a 3/4" triangular molding.
 REINFORCING STEEL: Use reinforcing steel conforming to ASTM A615, Grade 60. All dimensions relative to reinforcing steel are to the centerline of the bar unless otherwise noted.
 ALLOWABLE BEARING CAPACITY: A presumptive load bearing capacity of 2,000 pounds per square foot has been assumed for this project. If clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH and CH) are encountered, a licensed Geologist shall be hired to verify the allowable bearing capacity.
 FOUNDATION STABILIZATION: A minimum of 6 inches of Foundation Stabilization shall be used under all Footings. If soft or unsuitable soils are encountered at bearing depths, additional Foundation Stabilization shall be required. Foundation Stabilization shall consist of overexcavating the footing until stiffer soils are encountered and backfilled with a compacted well graded granular material.
 BACKFILL MATERIAL: Clean crushed rock shall be used for backfill to the limits shown on the plans. The aggregate shall be a clean crushed stone or granular fill meeting the following gradation as determined in accordance with ASTM D 422:

Sieve Size	Percent Passing
1 inch	100
3/4 Inch	75 - 100
No. 4	0 - 60
No. 40	0 - 50
No. 200	0 - 5

L CANTILEVER RETAINING WALL (TYPICAL SECTION)
Scale: Not to Scale

M RETAINING WALL DRAINAGE BACKFILL (TYPICAL)
Scale: Not to Scale

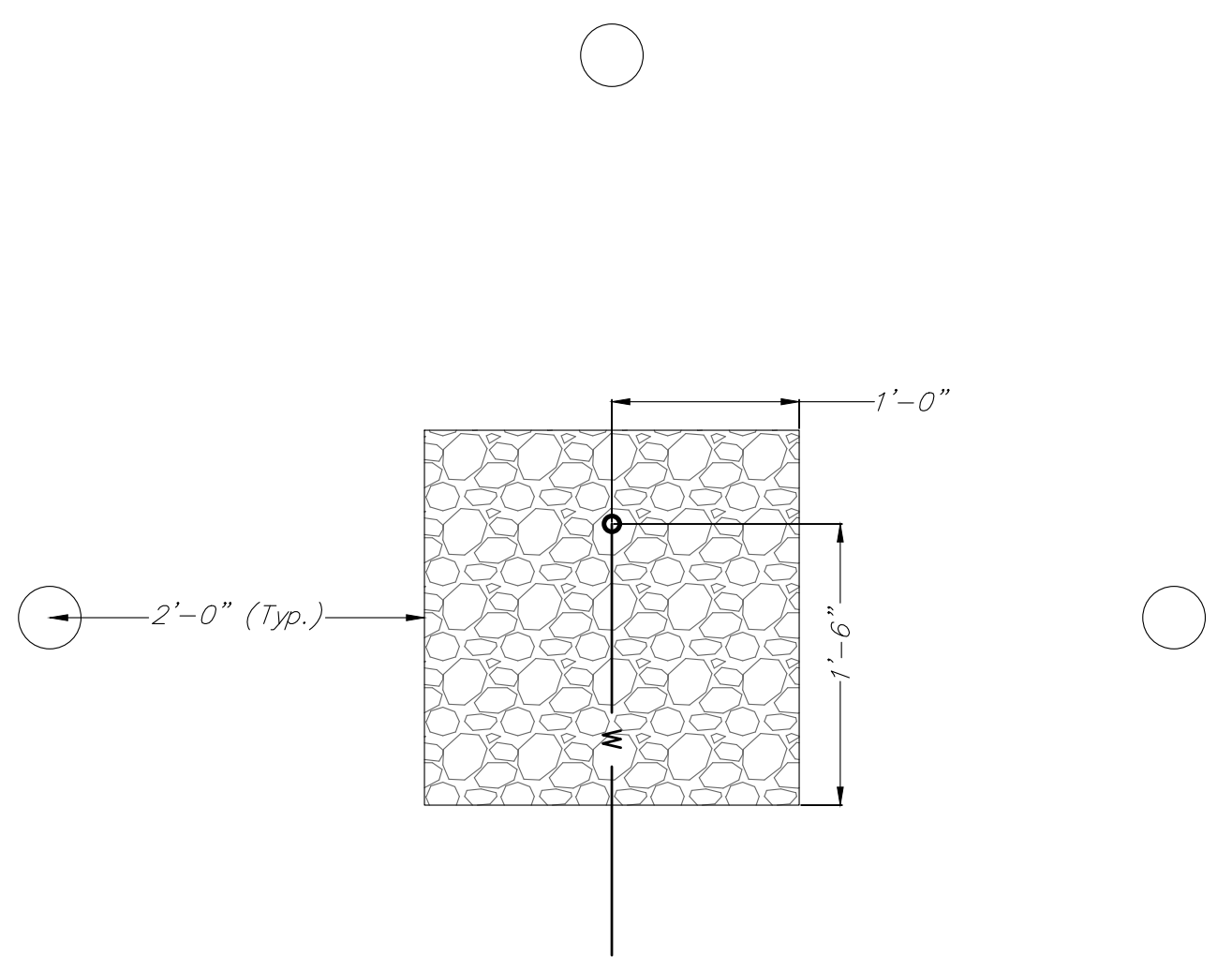


Notes:
 -Place a 3/4" chamfer on all exposed edges.
 -Maintain 2" concrete cover over reinforcing bars.
 -Maintain 3" concrete cover over reinforcing where concrete is poured against earth or rock.
 -Concrete shall be grade 4.0 ($f_c = 4,000$ psi).
 -Reinforcing steel shall be grade 60 ($f_y = 60,000$ psi).
 -Dimensions on bending diagrams are out-to-out of bars.

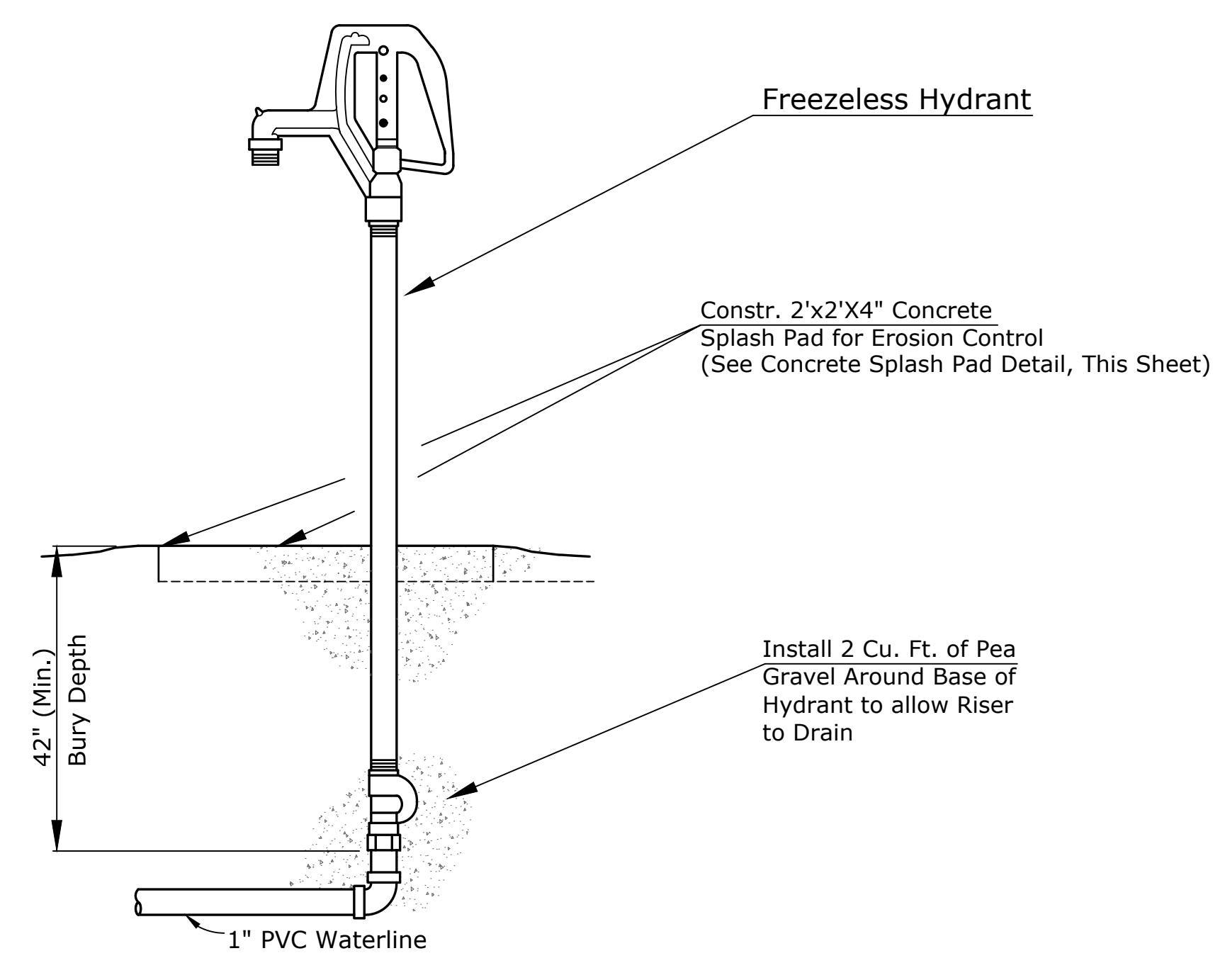
Minimum Splice Lengths	
#4	1'-6"
#5	1'-9"

N RETAINING WALL HANDRAIL
Scale: Not to Scale

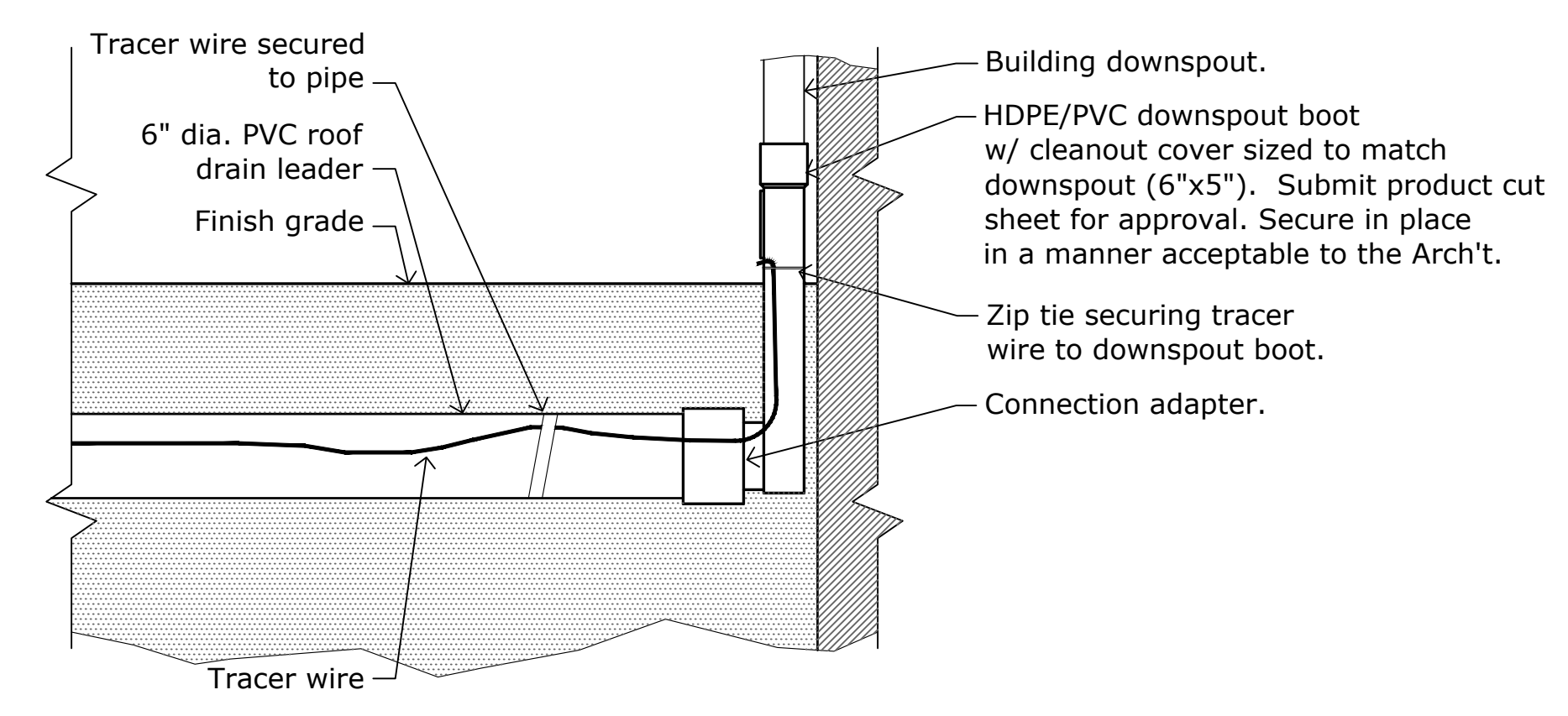
O BENDING DIAGRAMS
Scale: Not to Scale



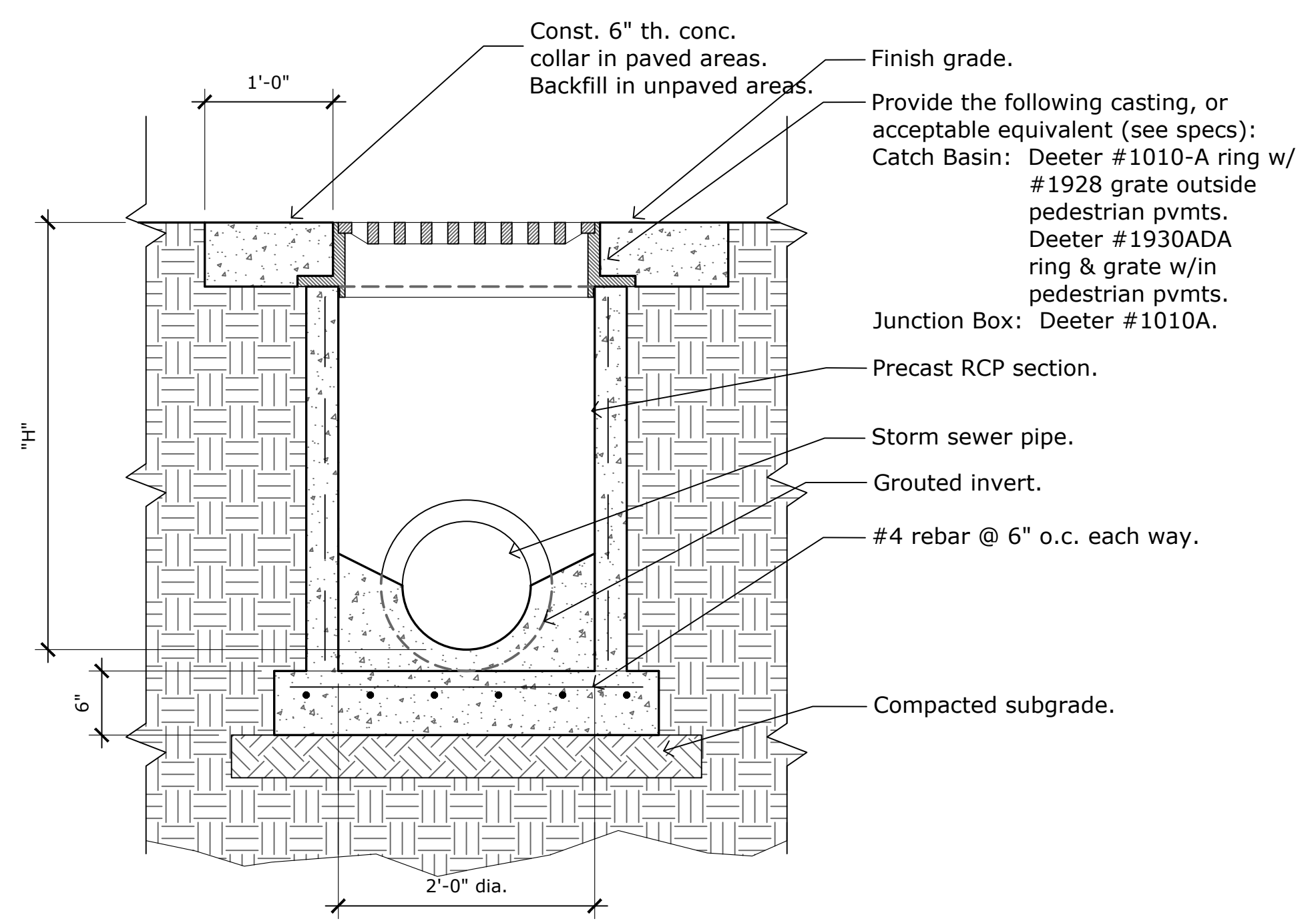
P CONCRETE SPLASH PAD DETAIL
Scale: Not to Scale



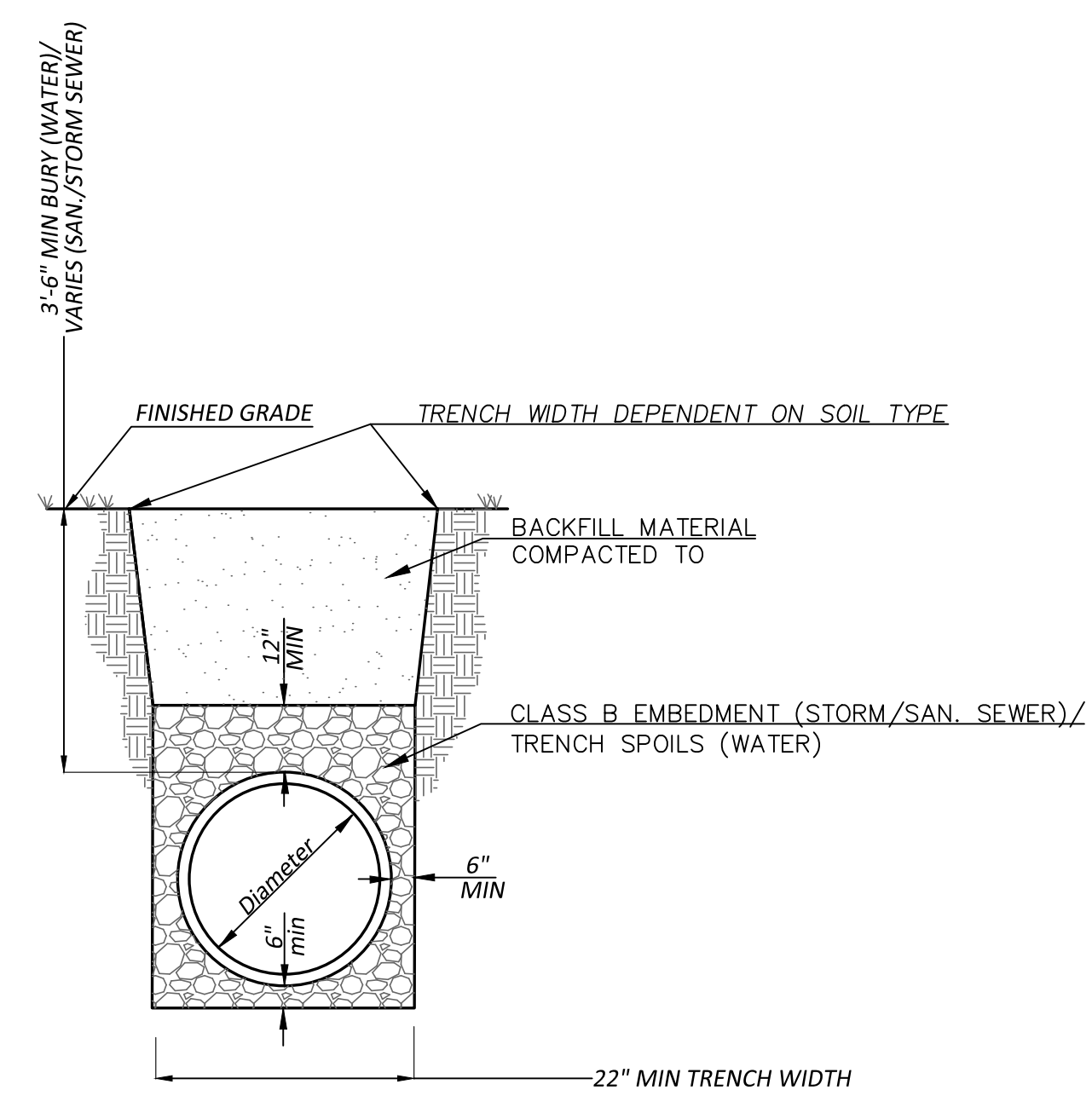
Q FREEZELESS YARD HYDRANT
No Scale



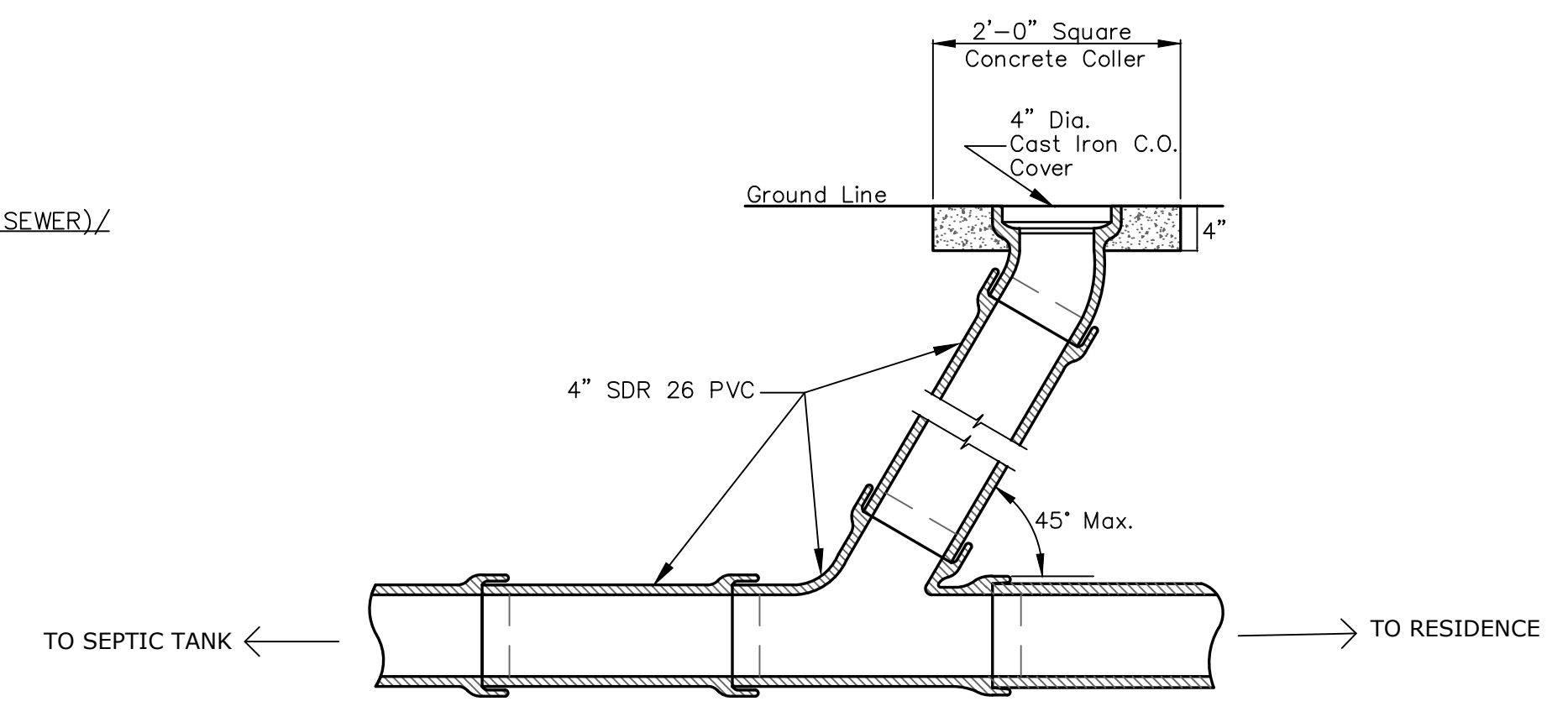
R TYP. DOWNSPOUT BOOT
Scale: No Scale



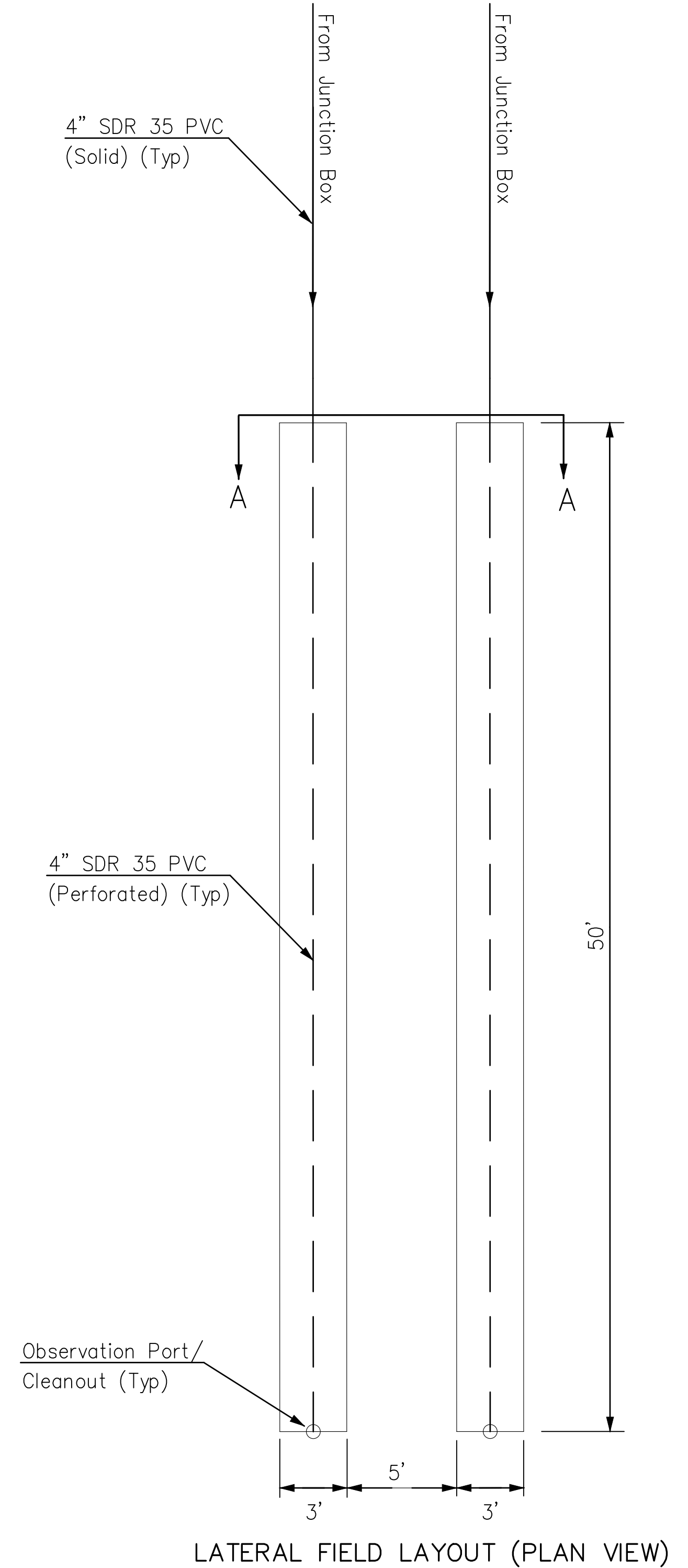
S TYPE 2.0 CATCH BASIN/JUNCTION BOX
Scale: 1" = 1'-0"



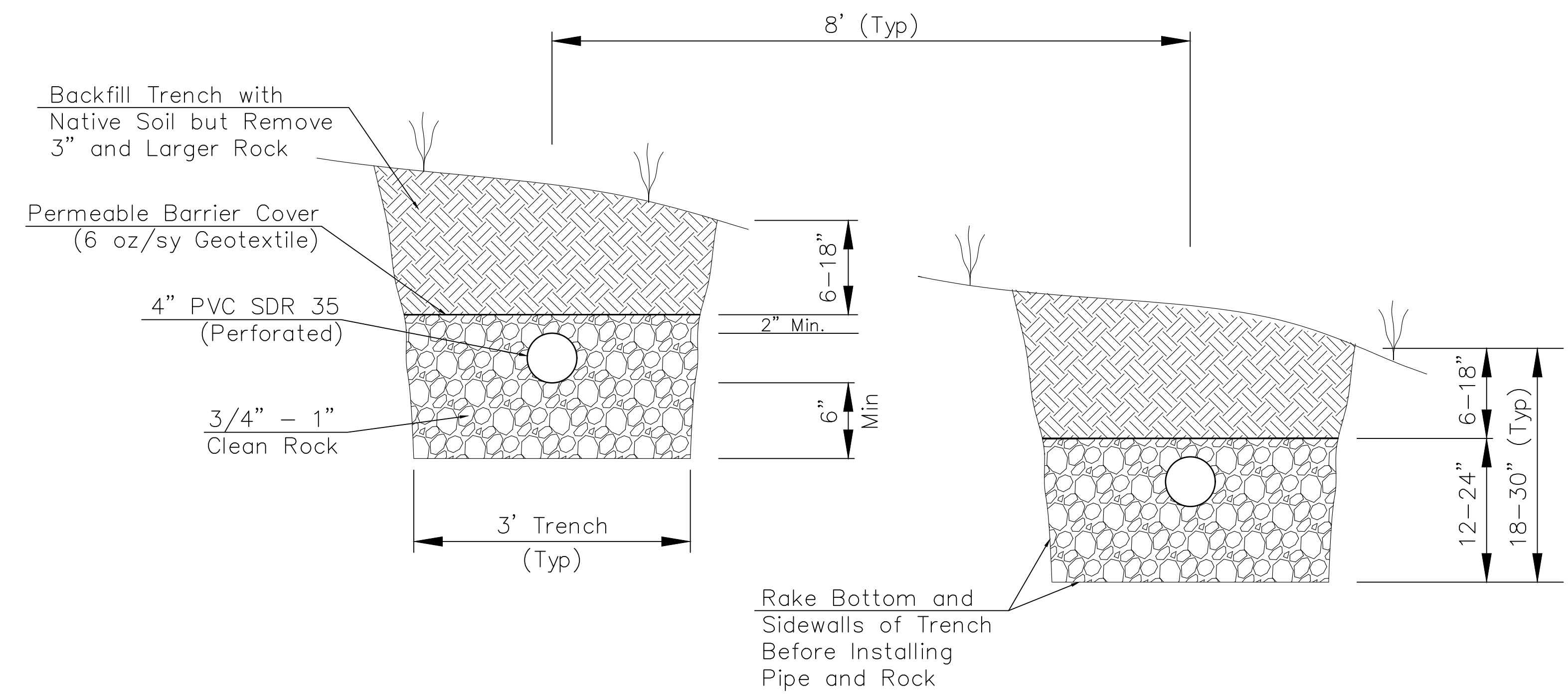
T TRENCH BACKFILL AND EMBEDMENT
Scale: Not to Scale



U SEWER LATERAL CLEANOUT
Scale: not to scale



LATERAL FIELD LAYOUT (PLAN VIEW)

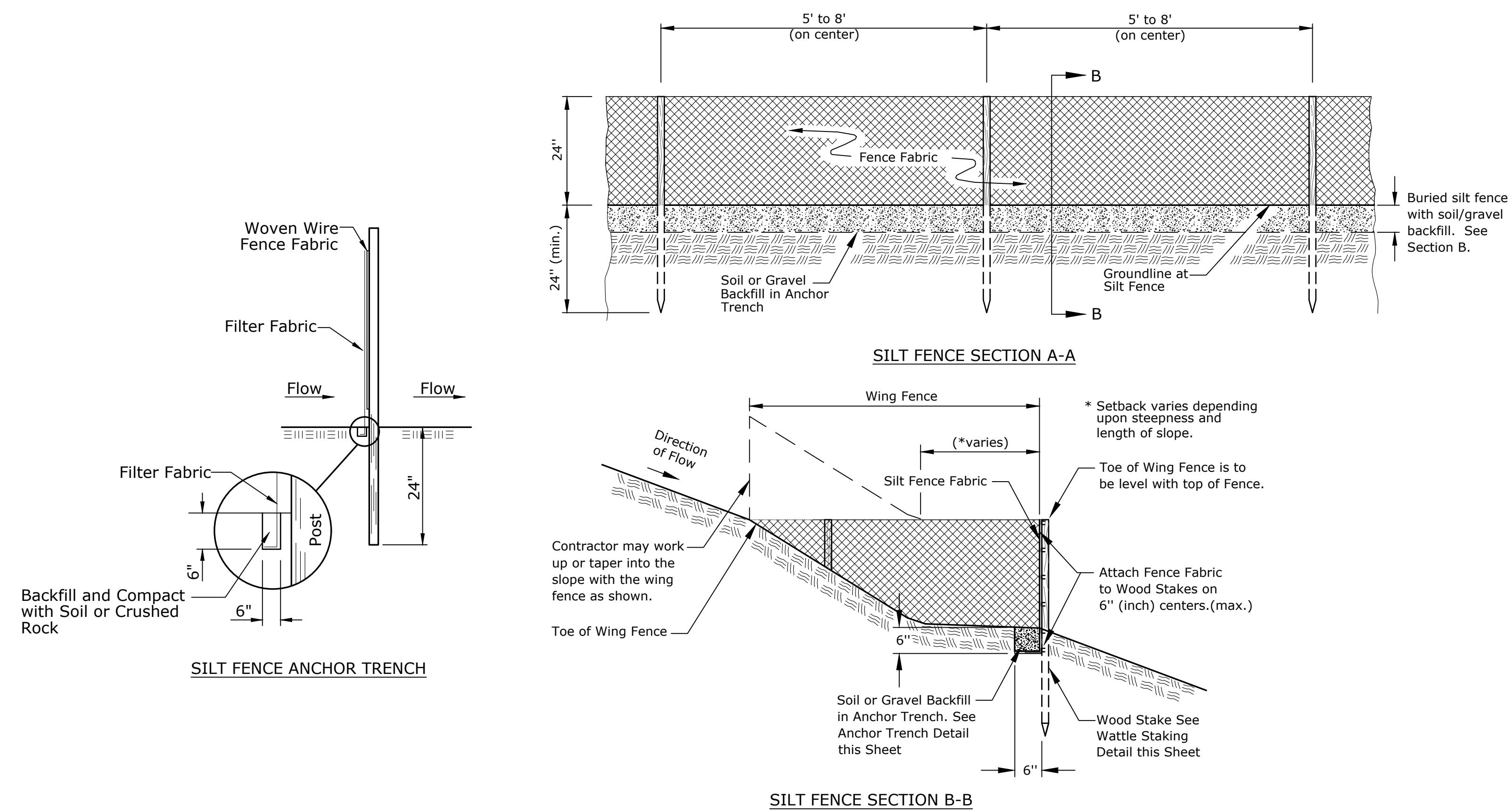


LATERAL FIELD (SECTION A-A)

V LATERAL FIELD DETAILS
Scale: Not to Scale

GENERAL NOTES:

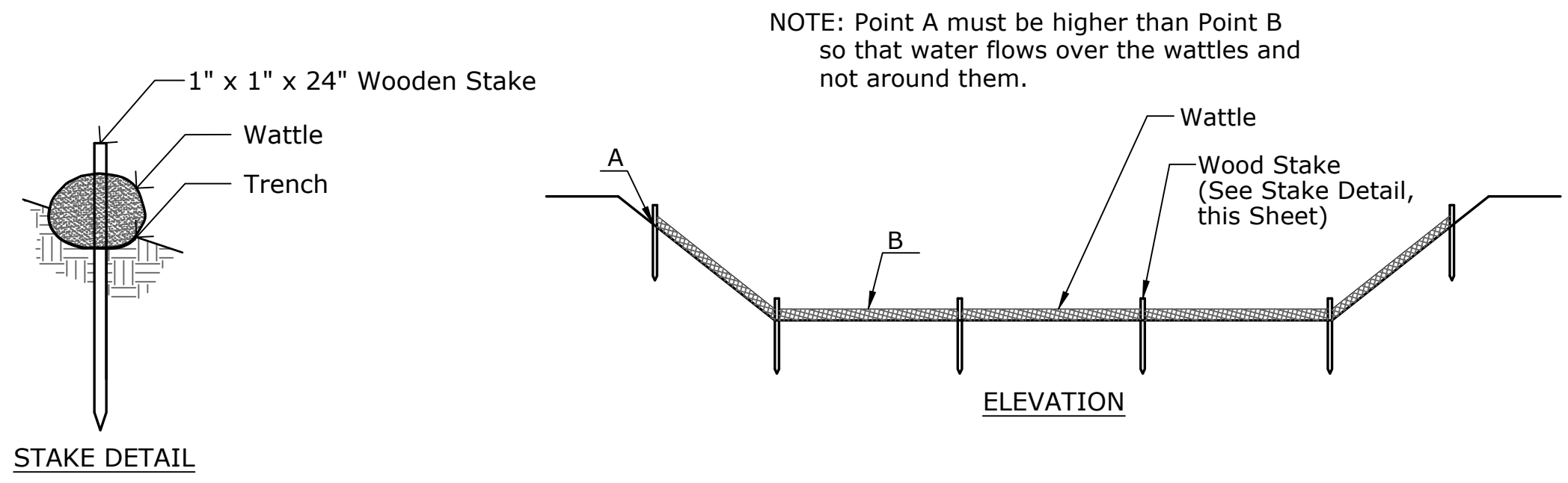
1. The Owner has completed and submitted a wastewater permit application for County review. Prior to installation, the Contractor shall coordinate with the County Sanitarian and excavate a soil profile for the Sanitarian's analysis. The final layout and configuration of the lateral field shall be contingent upon the soil profile and direction from the County Sanitarian. All subcontractors/contractors performing work on the sewer system shall be licensed and approved by the County Sanitarian.
2. Lateral fields shall be constructed using perforated 4" PVC SDR 35 pipe and 3/4" or 1" clean rock. All rock shall be obtained from a County-approved quarry (APAC-SHEARS - Lincoln, KS or Hartford, KS). Trench bottoms shall be three feet wide and level throughout. The trench sides and bottom shall be raked to eliminate smearing of the soil surface and to facilitate percolation.
3. Effluent shall be uniformly distributed to each lateral run through the use of precast concrete distribution boxes installed upgradient of the lateral fields.
4. Piping within the lateral field shall be perforated 4" PVC SDR 35. Upstream piping, from the perforated laterals to the distribution boxes, shall be solid 4" PVC SDR 35. Piping from the septic tank to the distribution boxes shall be 4" PVC SCH 40. All pipe shall be laid on a uniform grade.
5. All trenches and excavations for the septic tank, sewer lines and lateral lines shall be backfilled and compacted. Rock material three inch and larger shall not be placed within 12 inches of any structure or pipe. Backfill over the pipe and laterals may be left slightly mounded to allow for future settlement if it is determined that mechanical means of compaction may result in damage or displacement of the system. The backfill around the septic tank shall be mechanically compacted in layers to 95%. The Contractor is responsible for any backfill settlement for a period of one year following acceptance of the work.
6. The Contractor shall provide a minimum of six inches of topsoil over all disturbed areas.
7. Upon leaving the premises, the Contractor shall cleanup all debris, remove any exposed excavated rocks, grade the site to neat lines, rake and make ready for seeding. Seeding and mulching shall be completed by the Contractor.



E1 SILT FENCE DETAIL
Scale: Not to Scale

SILT FENCE INSTALLATION NOTES:

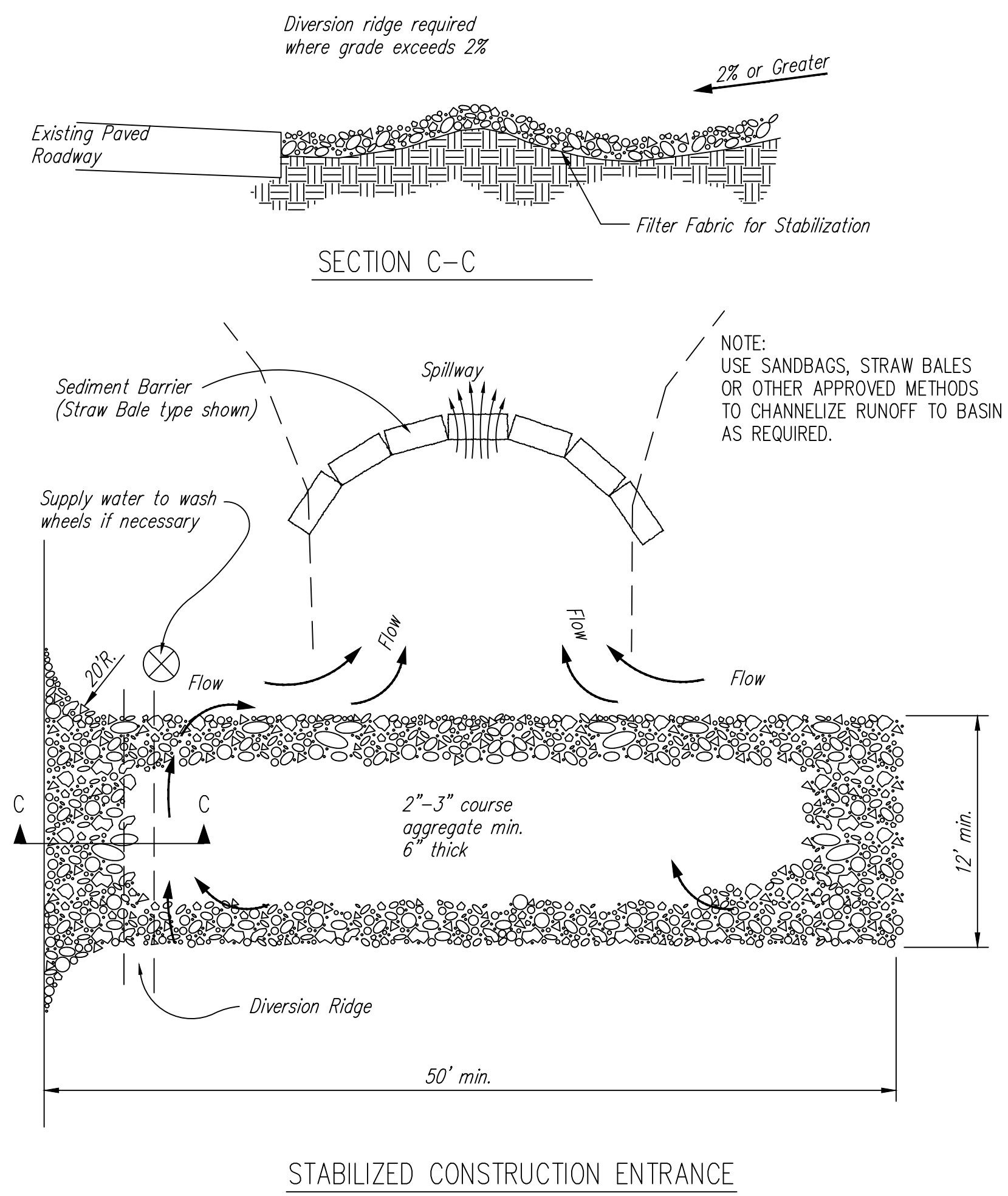
1. Wood Stakes shall be 2"x2" (nom.) x 4'-0" (min.) long.
2. Attach Fence Fabric to wood stakes with staples, wire, or nails.
3. Refer to plan sheets to estimate the linear footage of Silt Fence required.
4. The slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier.



E2 WATTLE STAKING DETAIL
Scale: 1" = 1'-0"

STRAW WATTLE INSTALLATION NOTES:

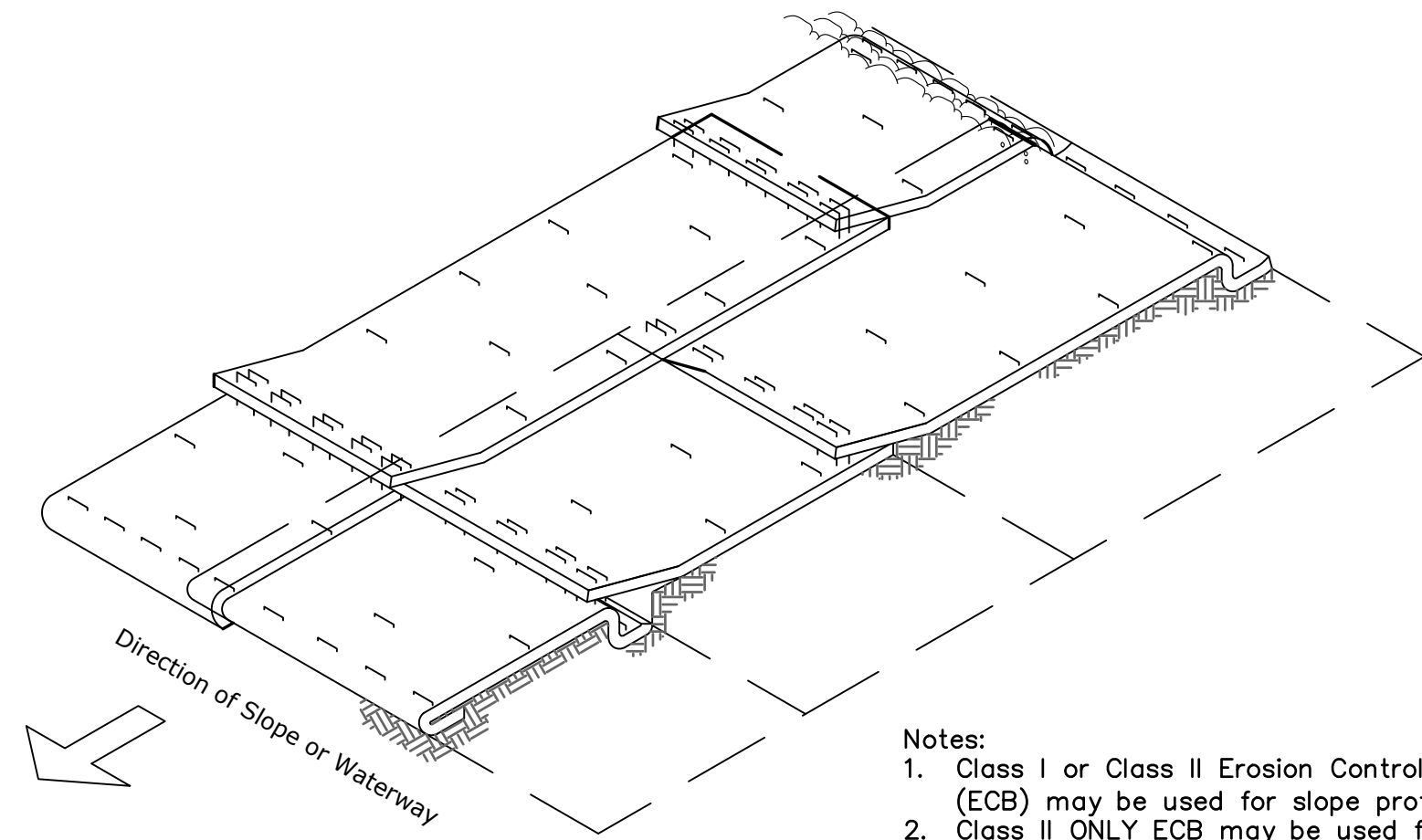
1. Begin at the location where the wattle is to be installed by excavating a 2-3" (5-7.5 cm) deep x 9" (22.9 cm) wide trench along the contour of the slope. Excavated soil should be placed up-slope from the anchor trench.
2. Place the wattle in the trench so that it contours to the soil surface. Compact soil from the excavated trench against the wattle on the uphill side. Adjacent wattles should tightly abut.
3. Secure the wattle with 18-24" (45.7-61 cm) stakes every 3-4' (0.9 - 1.2 m) and with a stake on each end. Stakes should be driven through the middle of the wattle leaving at least 2-3" (5-7.5 cm) of stake extending above the wattle. Stakes should be driven perpendicular to slope face.



NOTES:

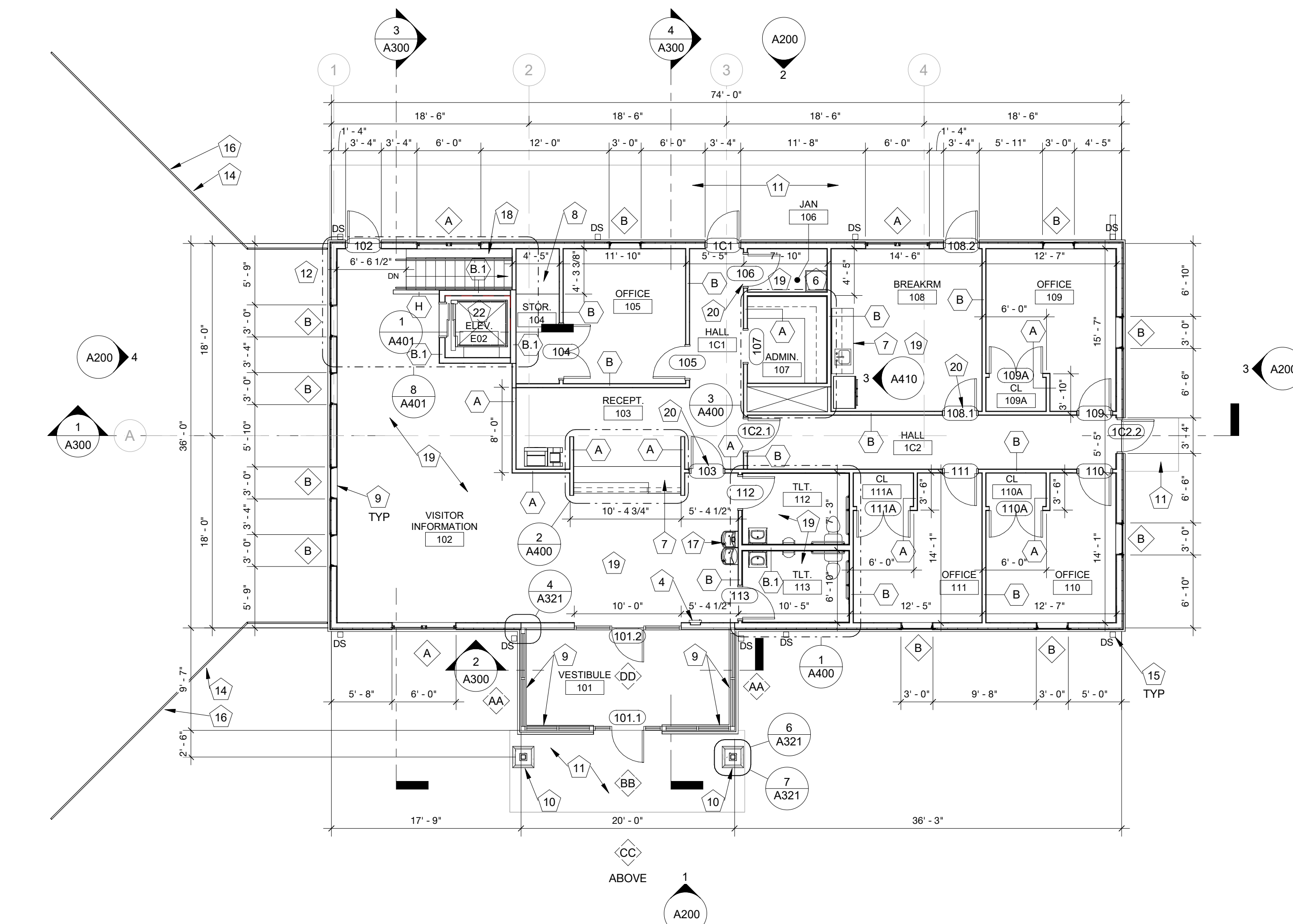
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

E3 STABILIZED CONSTRUCTION ENTRANCE
Scale: Not to Scale

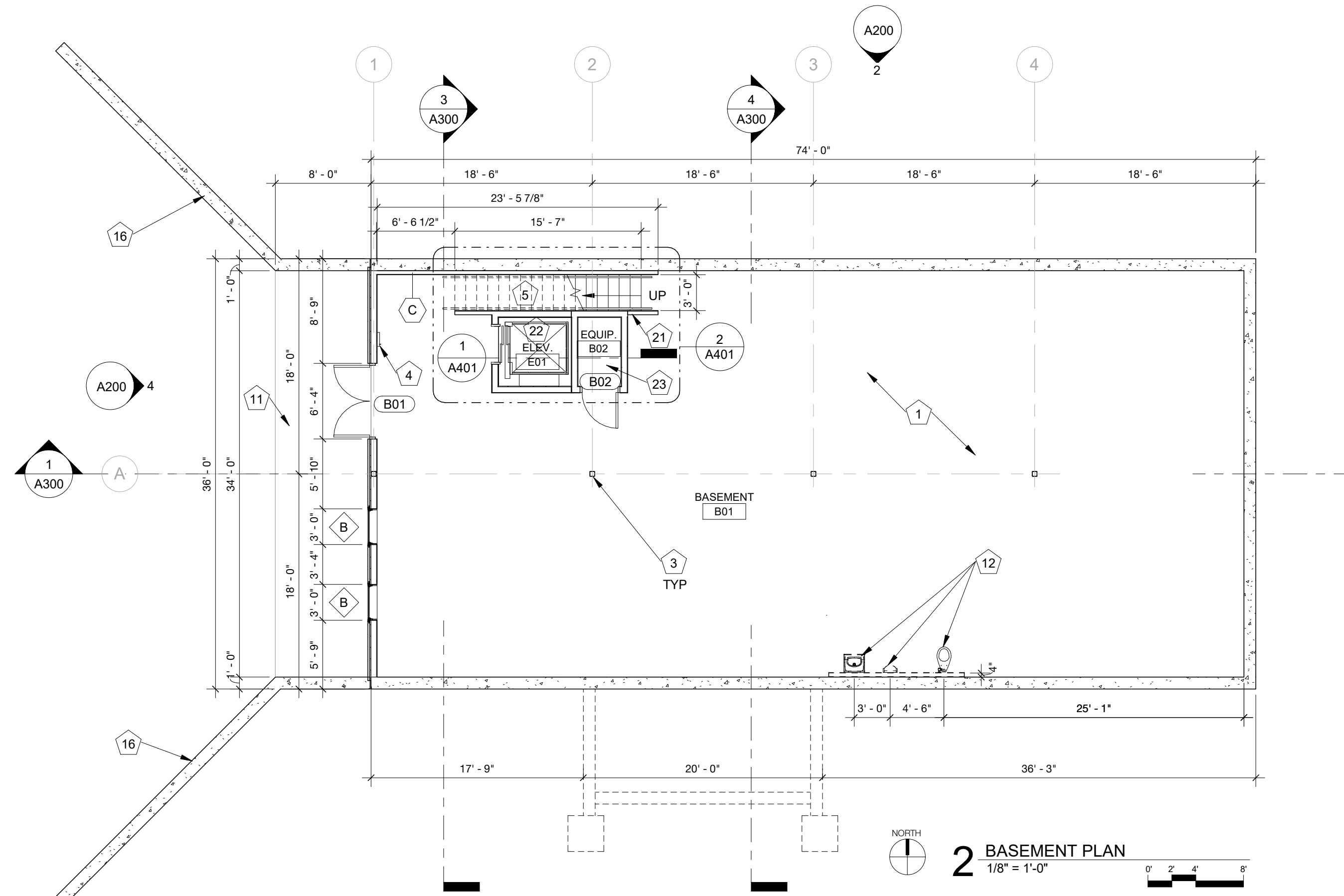


- Notes:**
1. Class I or Class II Erosion Control Blanket (ECB) may be used for slope protection.
 2. Class II ONLY ECB may be used for channel liners.
 3. Install staples in accordance with ECB manufacturer's directions.

E4 EROSION CONTROL BLANKET
Scale: Not to Scale



1 FIRST FLOOR PLAN
1/8" = 1'-0"



2 BASEMENT PLAN
1/8" = 1'-0"

GENERAL NOTES

- KEYNOTES BELOW REFER TO DRAWINGS ON SHEET A100 ONLY.
- ALL NOTES MAY NOT BE REFERENCED EACH PLAN.
- ALL ITEMS OF WORK MAY NOT BE INDIVIDUALLY NOTED WITH CONSTRUCTION NOTE. SCOPE OF WORK INCLUDES SIMILAR ITEMS WHETHER OR NOT SPECIFICALLY INDICATED AND ARE TYPICAL, UNLESS OTHERWISE NOTED.
- REFER TO SHEET G005 FOR ADDITIONAL MATERIAL SPECIFICATIONS.

PLAN NOTES

- CONC SLAB ON GRADE, RE: STRUCTURAL
- 2" RIGID INSULATION ADHERED TO FOUNDATION WALL
- STEEL COLUMN, RE: STRUCTURAL
- SEMI-RECESSED FIRE EXTINGUISHER
- WOOD STAIRS WITH SOLID WOOD TREADS AND RISERS, STAIN FINISH. PROVIDE TREAD MOUNTED 1-1/2" DIA. METAL PIPE RAILING, RE: ENLARGED PLANS FOR MORE INFO.
- MOP SINK, RE: PLUMBING
- WOOD CASEWORK WITH SOLID SURFACE COUNTERTOP AND BACKSPLASH AND UNDERMOUNT SINK BOWL
- WOOD CASEWORK WITH SOLID SURFACE COUNTER AND TRANSACTION COUNTER
- RAISED PORTION OF FLOOR TO ALLOW FOR STAIR HEAD CLEARANCE, RE: SHEET A321
- SOLID SURFACE WINDOW SILLS, RE: FINISH SCHEDULE
- WOOD CLAD STEEL COLUMNS WITH STONE VENEER COLUMN BASE SUPPORTING WOOD TRUSS, RE: ENLARGED PLANS AND SECTION. WOOD TO BE STAINED. COLOR TO MATCH INTERIOR CASEWORK STAIN.
- CONCRETE PAVING, RE: CIVIL
- PLUMBING ROUGH IN FOR FUTURE RESTROOM.
- NOT USED
- METAL PIPE GUARDRAIL, PAINT FINISH.
- PREFINISHED 6" DOWNSPOUT TO TIE INTO UNDERGROUND DRAINAGE SYSTEM.
- CONCRETE RETAINING WALL, RE: CIVIL AND STRUCTURAL.
- DUAL HEIGHT DRINKING FOUNTAIN, RE: MEP
- 3/4" SOLID WOOD CAP TOP OF FOUNDATION WALL, ENTIRE LENGTH OF STAIR. STAIN FINISH TO MATCH INTERIOR CASEWORK.
- 1/2" CEMENT BOARD UNDER TILE FLOOR FINISH. FEATHER SUBFLOOR WHERE TILE FLOOR MEETS CARPET FLOOR FINISH LOCATIONS TO MEET ADA FLOOR TRANSITIONS.
- ADA COMPLIANT FLOOR TRANSITION, RE: FINISH SCHEDULE.
- 2X6 STUD BEARING WALL, RE: STRUCTURAL. SINGLE LAYER 5/8" GPBD ON STAIR SIDE OF WALL, PAINT FINISH.
- LULA HOISTWAY. VERIFY ALL HOISTWAY AND PIT DEPTH DIMENSIONS WITH MFG. REFER TO ENLARGED PLANS, SECTION, AND DETAILS FOR MORE INFORMATION.
- EQUIPMENT ROOM REQUIRES 1 HR RATED WALL CONSTRUCTION. REFER TO ENLARGED PLANS AND SHEET G001 FOR MORE INFORMATION.

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Kansas Department of Wildlife & Parks
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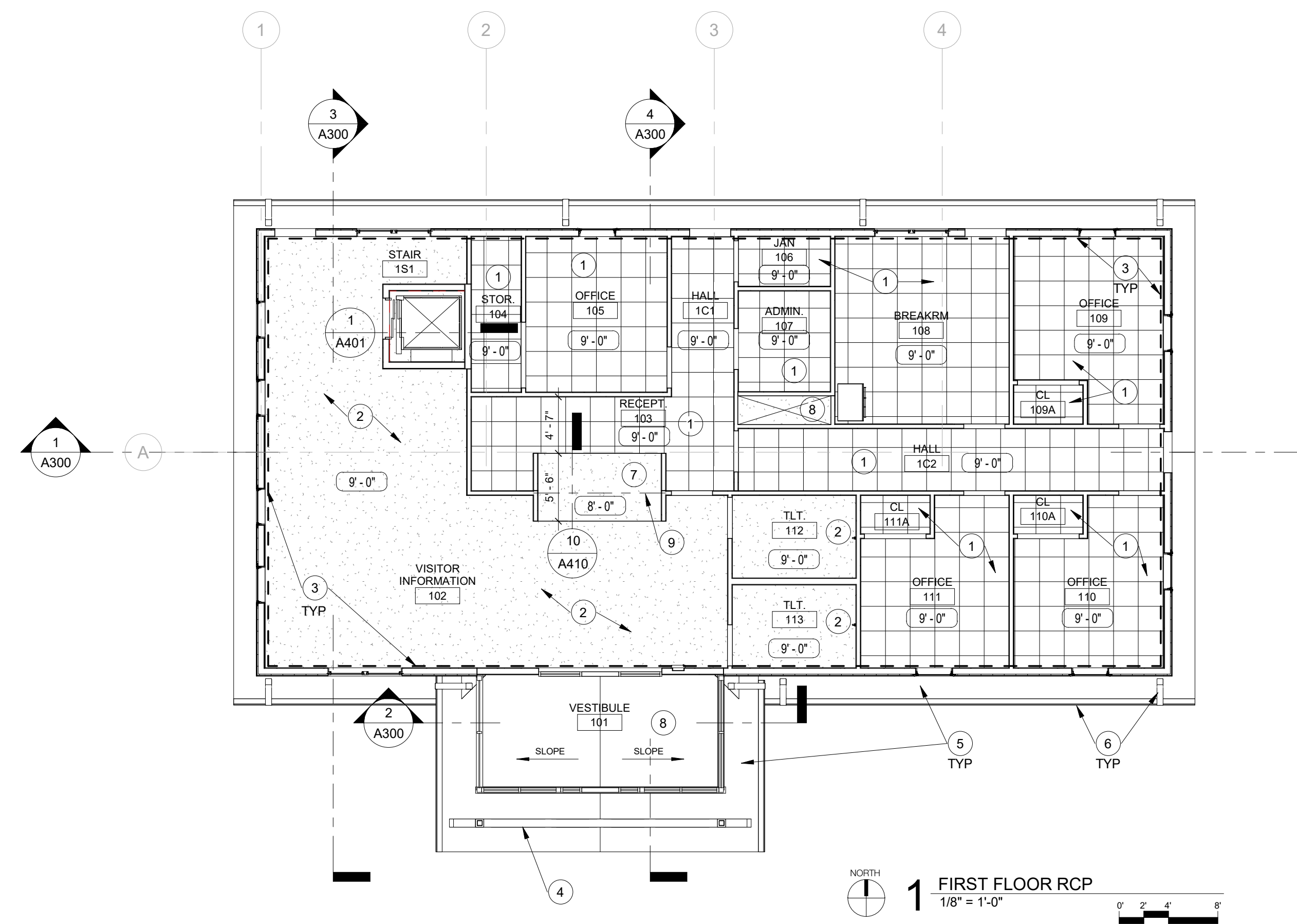
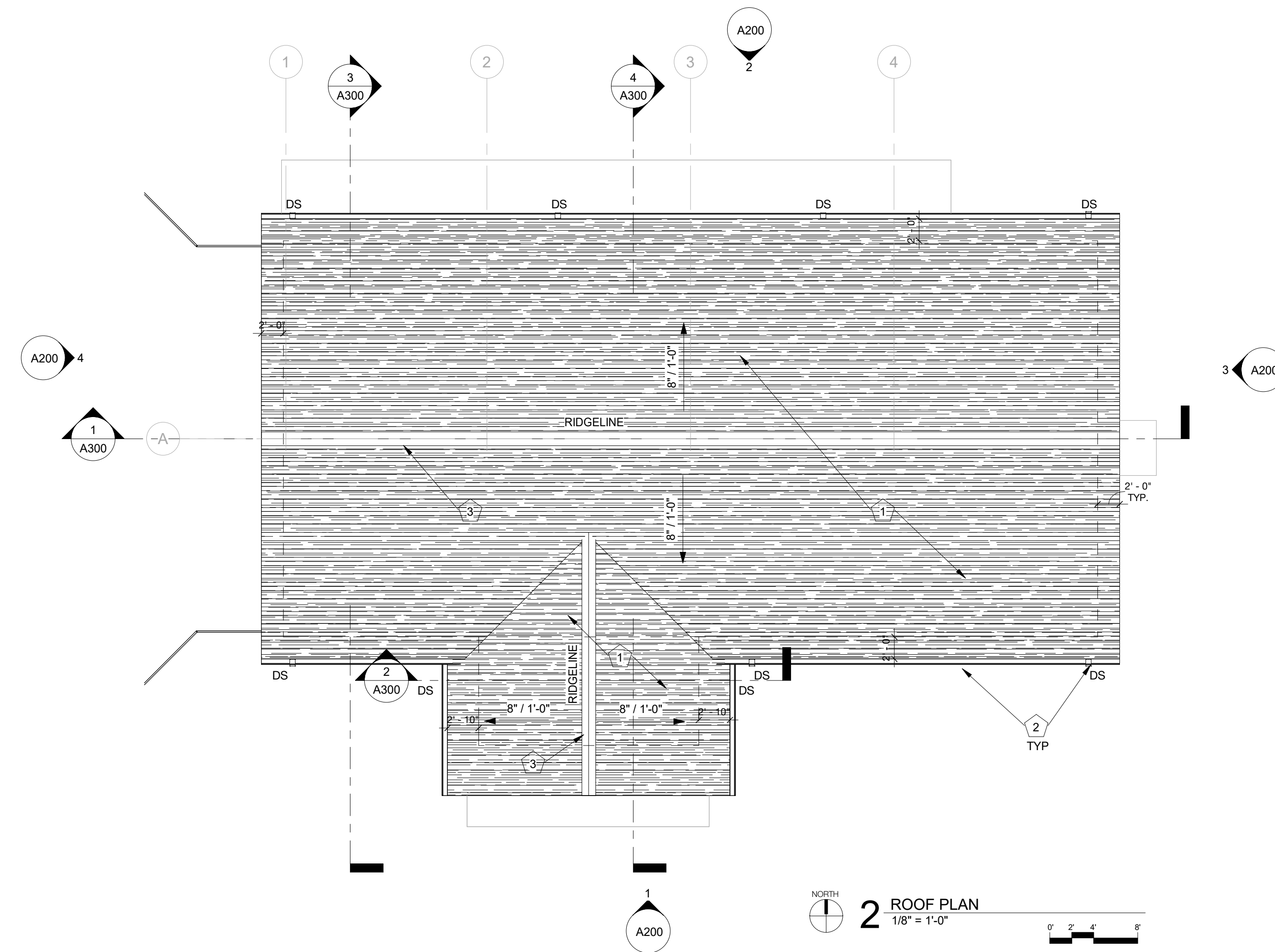
FLOOR PLANS
A-015174
A100
CONSTRUCTION DOCUMENTS

GENERAL NOTES

- KEYNOTES BELOW REFER TO DRAWINGS ON SHEET A101 ONLY.
- ALL NOTES MAY NOT BE REFERENCED EACH PLAN.
- ALL ITEMS OF WORK MAY NOT BE INDIVIDUALLY NOTATED WITH CONSTRUCTION NOTE. SCOPE OF WORK INCLUDES SIMILAR ITEMS WHETHER OR NOT SPECIFICALLY INDICATED AND ARE TYPICAL, UNLESS OTHERWISE NOTED.
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT.

ROOF NOTES

- ASPHALT SHINGLES OVER ZIP ROOF SHEATHING OVER PREENGINEERED TRUSSES AND/OR STICK FRAMING, RE: STRUCTURAL.
- 6" PREFINISHED MTL BOX GUTTER WITH 6" X 6" PREFINISHED DOWNSPOUT
- ASPHALT RIDGE CAP



CEILING NOTES

- SUSPENDED 2'X2' ACT
- SUSPENDED GPBD ON 2X6 FRAMING.
- DASHED LINE REPRESENTS EXTENTS OF SINGLE LAYER 5/8" GPBD ATTACHED TO BOTTOM OF PRE-ENGINEERED TRUSS CHORD WITH 2 X 4 FURRING AT 24" O.C. LAID FLAT.
- WOOD TRUSS WITH CUSTOM STAIN FINISH TO MATCH INTERIOR CASEWORK, RE: STRUCTURAL.
- FINISH BOTTOM OF EXTERIOR OVERHANGS WITH 1/4" THICK HARDIE SOFFIT PANEL SMOOTH FINISH. WHERE OPEN RAFTERS USE VENTED SMOOTH - PREPRIMED FOR PAINT FINISH. TYP. TRIM ALONG PERIMETER WITH 1X2 TRIM. LP SMARTSIDE 440 SERIES SMOOTH FINISH TRIM PRIME FOR PAINT FINISH.
- PREFINISHED MTL GUTTER AND DOWNSPOUT
- GPBD SOFFIT ON PAIRED 2X6 AT 12" O.C. FRAMING. SUPPORTED FROM WING WALLS. RE 4/A300 AND 10/A410.
- 5/8" GPBD ATTACHED TO BOTTOM OF ROOF FRAMING
- (3) 2X12 HEADER OVER THE OPENING. RE 2/A400.

Kansas
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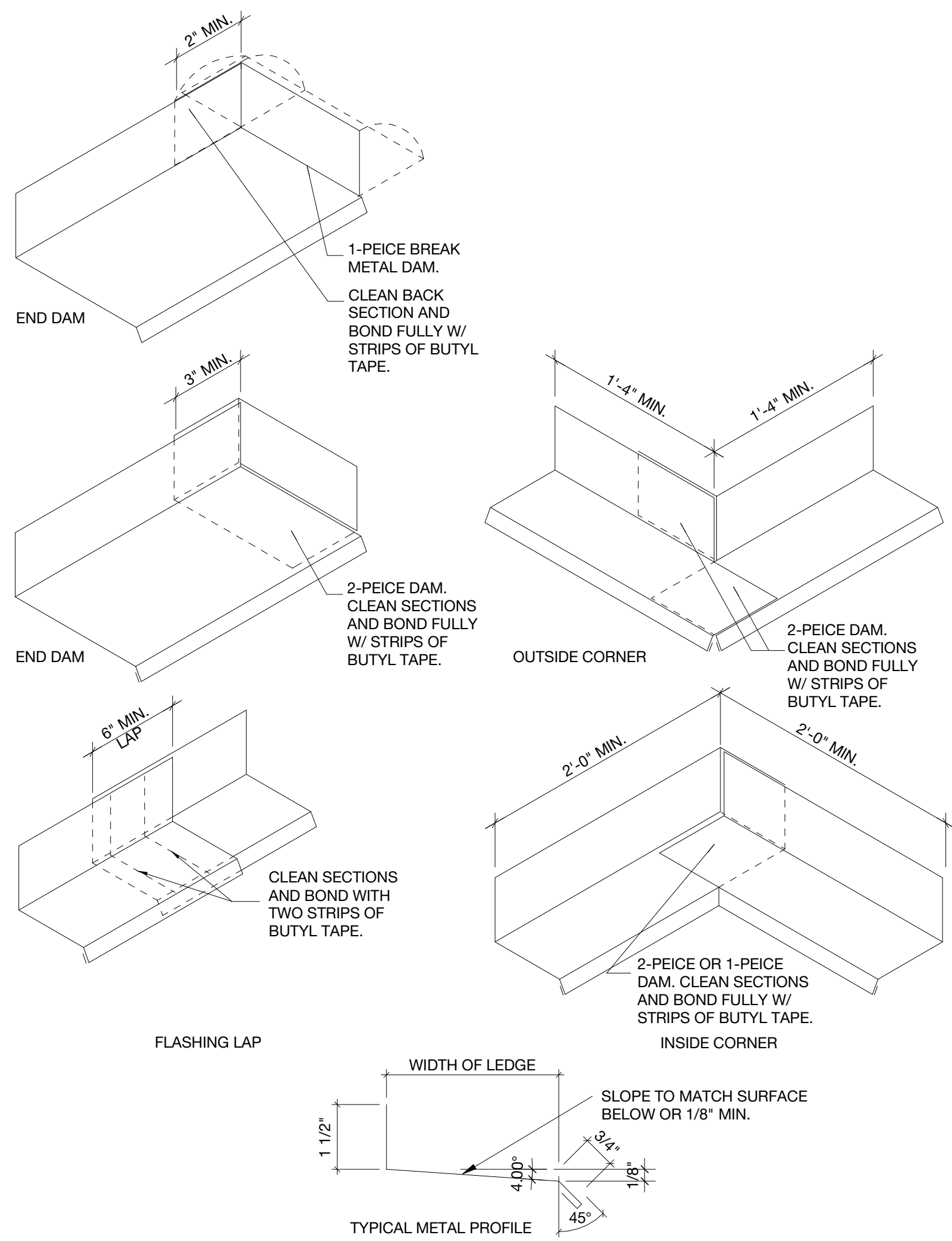
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REFLECTED CEILING
PLAN AND ROOF
PLAN

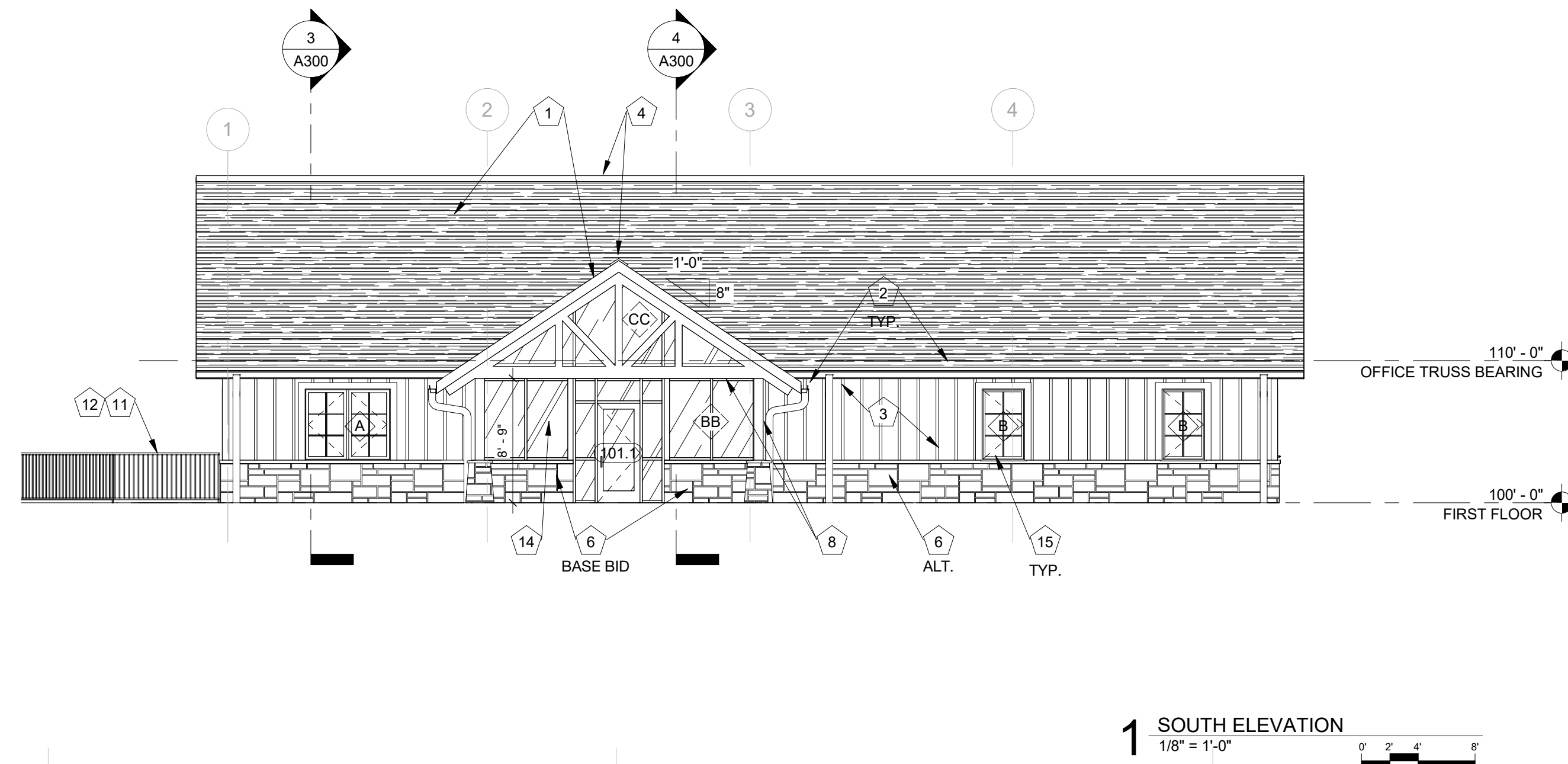
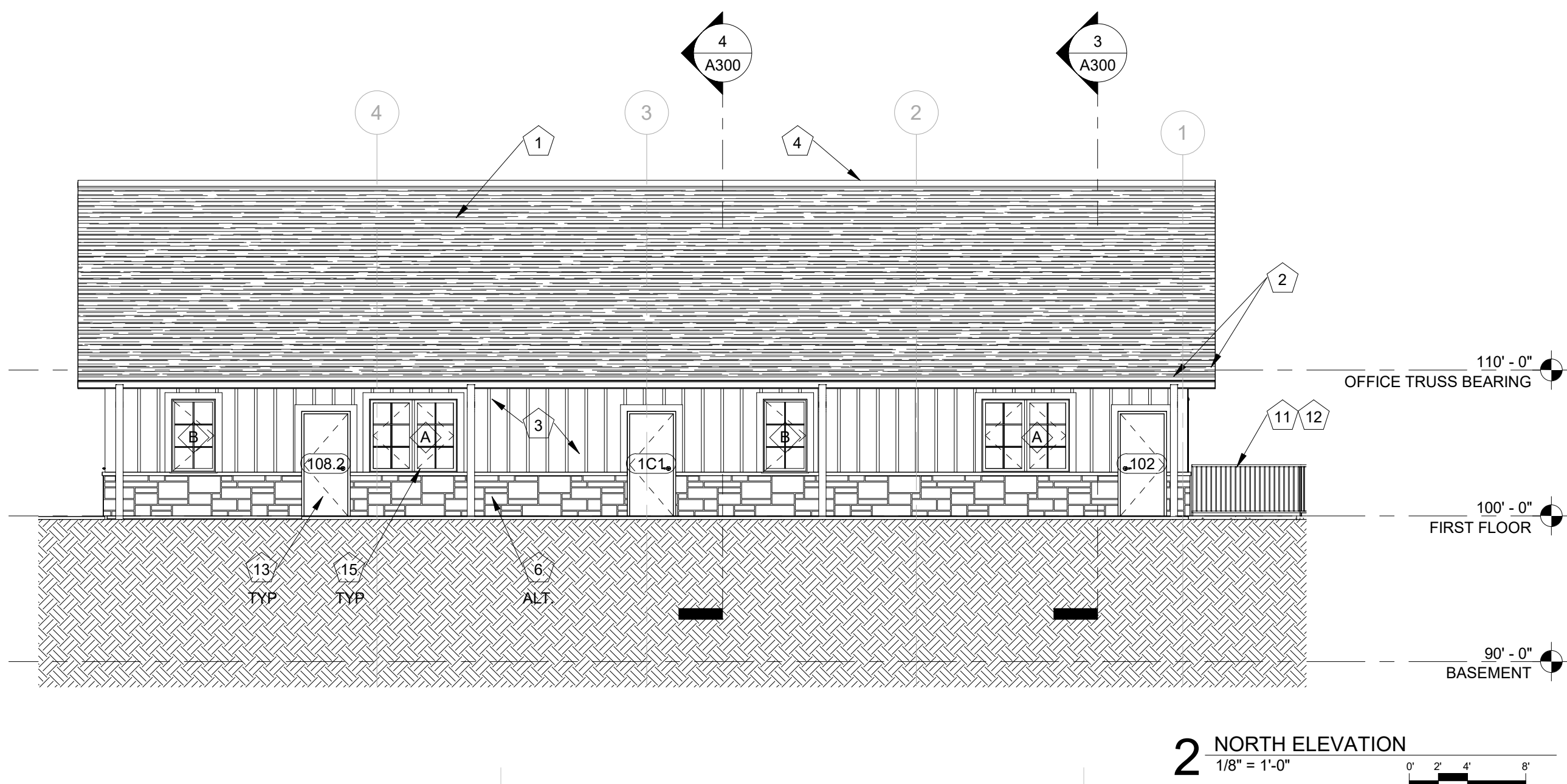
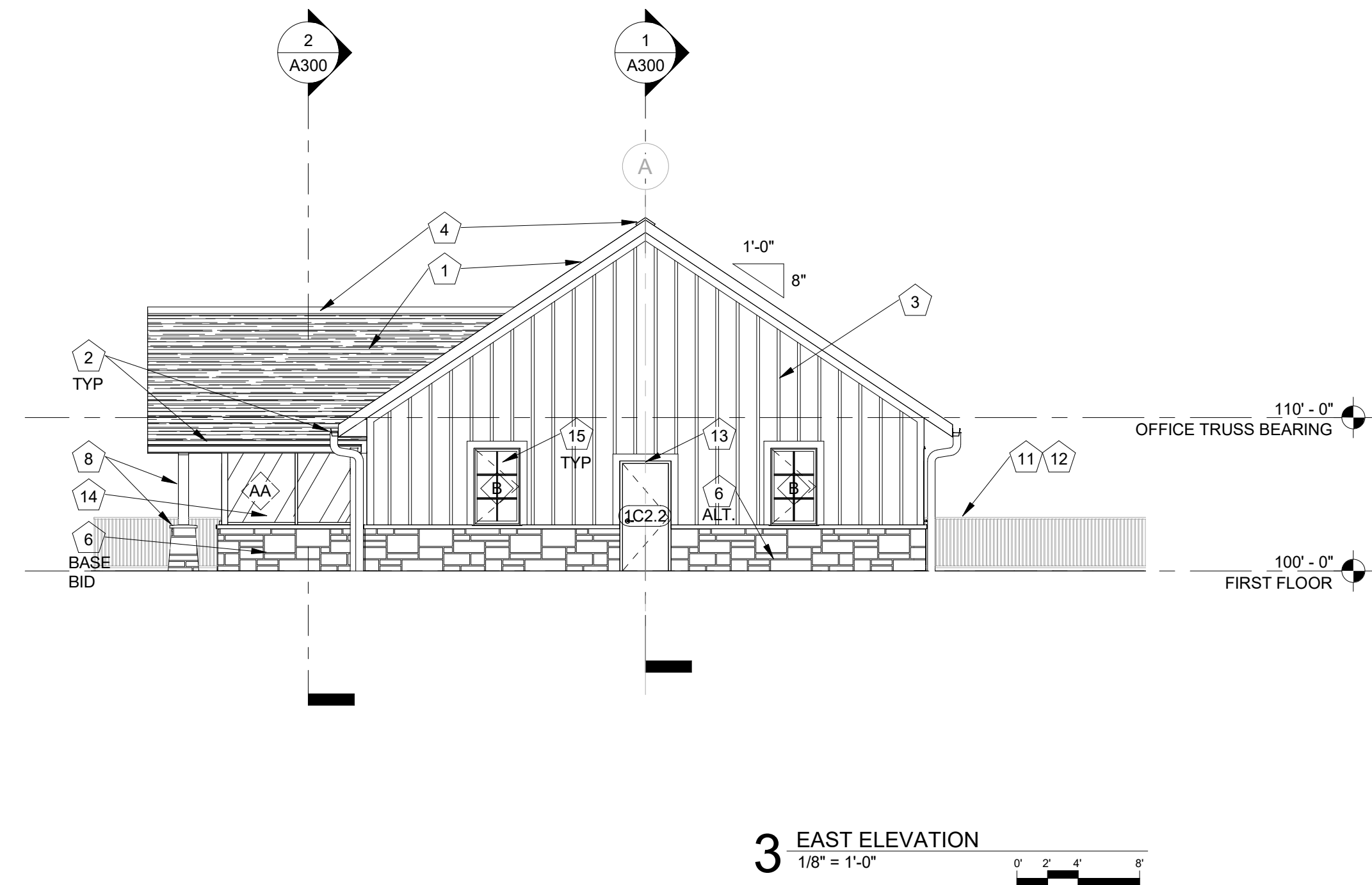
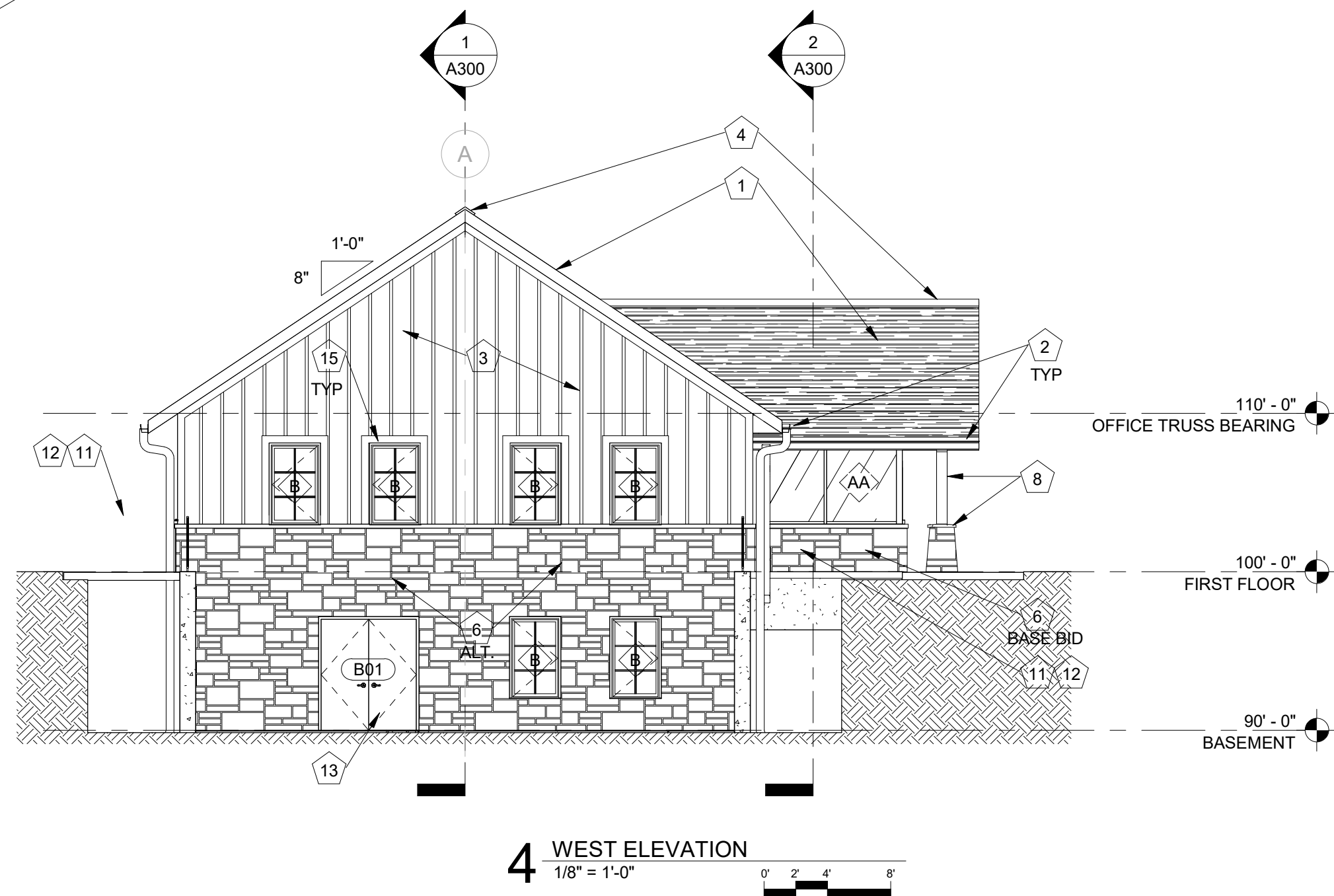
A-015174

A101

CONSTRUCTION
DOCUMENTS



TYP. FLASHING DETAILS
1/8" = 1'-0"

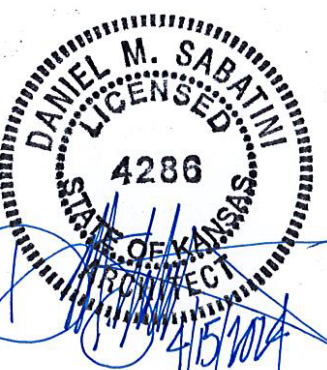


GENERAL NOTES

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- ALL ITEMS OF WORK MAY NOT BE REFERENCED EACH PLAN.
- ALL ITEMS OF WORK MAY NOT BE INDIVIDUALLY NOTATED WITH CONSTRUCTION NOTE. SCOPE OF WORK INCLUDES SIMILAR ITEMS WHETHER OR NOT SPECIFICALLY INDICATED AND ARE TYPICAL, UNLESS OTHERWISE NOTED.
- REFER TO SHEET A300 AND A301 FOR ADDITIONAL NOTES AND INFORMATION.
- UNLESS NOTED OTHERWISE, THE MATERIALS AND PRODUCTS NOTED ARE BASIS OF DESIGN (BOD). CONTRACTOR TO USE THE MANUFACTURERS RECOMMEND ACCESSORIES, ATTACHMENT, TESTING (ASTM OR UL) OR INSTALLATION REQUIREMENTS. ALTERNATE MATERIALS WILL BE CONSIDER IF THEY MEET OR EXCEED THE THOSE LISTED. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EVALUATION MATERIALS NECESSARY TO THE ARCHITECT AND OWNER FOR APPROVAL. IF NO PRODUCT OR MATERIAL STANDARD IS DESCRIBED, THE CODE REQUIRED MINIMUMS APPLY.
- SEE G001 FOR BASE BID AND ALTERNATE SCOPE OF WORK DESCRIPTIONS. WORK SHOWN MAY INCLUDE ADD ALTERNATES.

ELEVATIONS NOTES

- ASPHALT SHINGLE ROOFING
- 6" PREFINISHED MTL BOX GUTTER WITH 6" X 6" PREFINISHED DOWNSPOUT COLOR FOR BOTH ROOF AND TRIM AS SELECTED BY ARCHITECT FROM MANUF. STANDARD PVDF KYNAR 500 FINISH. SEE CIVIL FOR CONNECTION TO UNDERGROUND STORM WATER COLLECTION PIPING.
- BOARD AND BATTEN SIDING, PAINT FINISH
- ASPHALT RIDGE CAP IN THE SAME COLOR AS THE ROOF. RE: G005
- NOT USED.
- ALTERNATE: INSTALLATION OF 1 1/4" STONE VENEER, SILL WAINSCOT AND ASSOCIATED PRODUCTS. (BASE BID INCLUDES THE STONE VENEER ON THE ENTRY VESTIBULE AND COLUMN BASE ONLY. REFERENCE G005 AND DETAILS FOR LIST OF PRODUCTS.)
- NOT USED.
- WOOD CLAD STEEL COLUMNS WITH STONE VENEER BASE SUPPORTING WOOD TRUSS, RE: WALL SECTIONS, DETAILS, AND STRUCTURAL.
- NOT USED.
- NOT USED.
- 42" ALUM. GUARD RAIL. SEE G005 FOR ADDITIONAL INFORMATION.
- CONCRETE RETAINING WALLS, RE: CIVIL AND STRUCTURAL
- HOLLOW METAL DOOR, PAINT FINISH. SEE DOOR SCHEDULE.
- 4.5" ALUM. THERMALLY BROKEN INSULATED STOREFRONT IS THE BASIS OF DESIGN. USE 1" INSULATED LOW-E DOUBLE GLAZED GLASS PANELS. MANUF. BY MANKO WINDOW SYSTEMS inc.
- CASEMENT WINDOWS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DRIP CAP, SILL PAN FLASHING, WEATHER PROOFED OPENINGS AND ALONG WITH FLASHING. AIR SEAL AT PERIMETER WITH BACKER ROD AND FOAM INSULATION.



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EXTERIOR ELEVATIONS

A-015174

A200

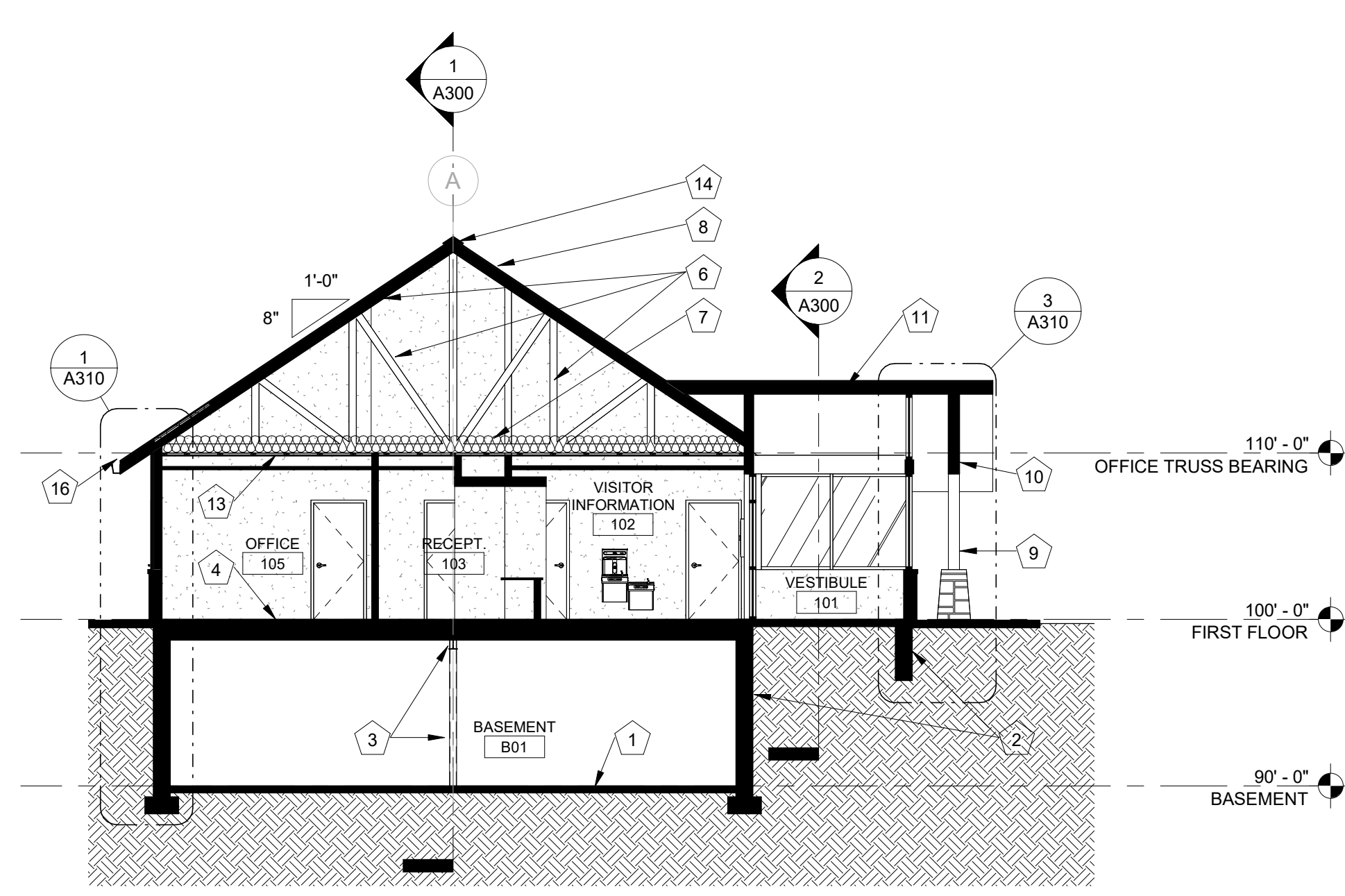
CONSTRUCTION DOCUMENTS

GENERAL NOTES

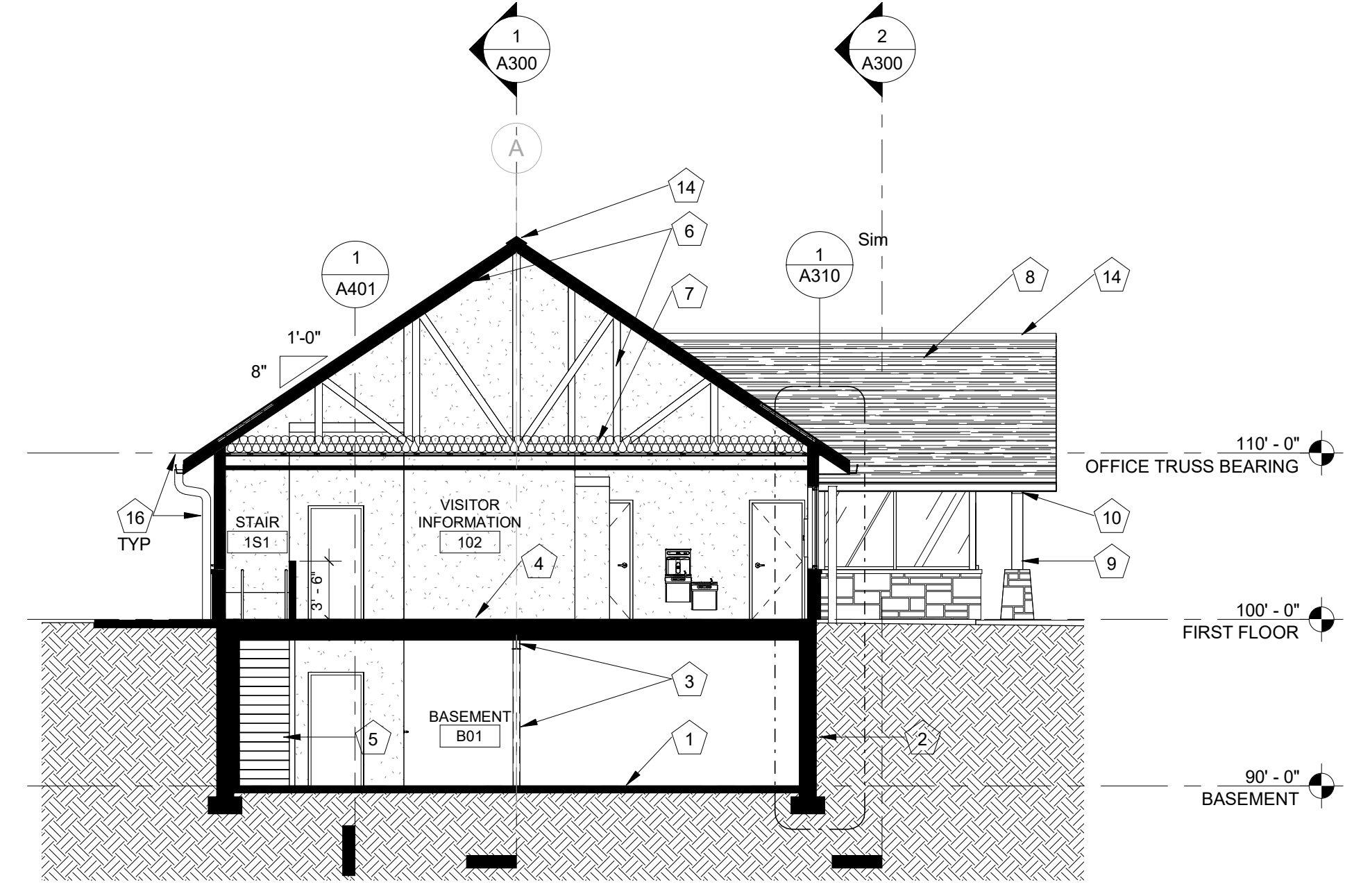
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BLDG SECTION NOTES

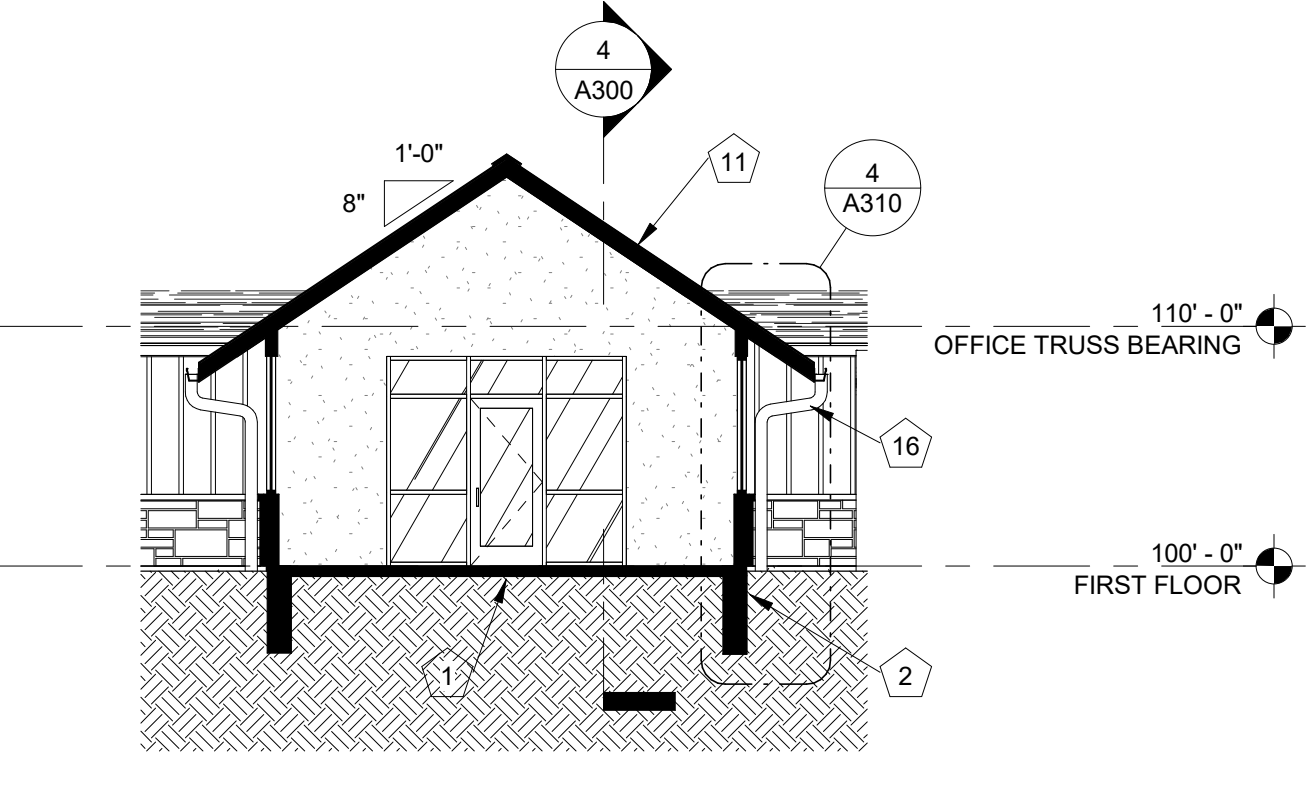
- CONC SLAB ON GRADE, RE: STRUCTURAL.
- CONC FOUNDATION WALLS W/ MIN. R-10 RIGID INSULATION FULL HEIGHT OF WALL.
- STEEL COLUMN AND BEAM, RE: STRUCTURAL.
- WOOD FLOOR FRAMING, RE: STRUCTURAL.
- WOOD STAIRS, TREADS, AND RISERS, WITH METAL PIPE HANDRAILS.
- PRE-ENGINEERED WOOD TRUSS WITH ZIP ROOF SHEATHING, RE: STRUCTURAL.
- MIN. R-38 BLOWN-IN INSULATION.
- ASPHALT SHINGLES, RE: G005
- WOOD CLAD STEEL COLUMN WITH STONE VENEER BASE.
- WOOD TRUSS WITH STAIN FINISH, RE: STRUCTURAL.
- 2X8 WOOD FRAMED ROOF STRUCTURE WITH ZIP ROOF SHEATHING. SPRAY INSULATION BETWEEN ROOF JOISTS. NOT USED.
- 5/8" GPBD ATTACHED TO 2X4 FURRING LAID FLAT ATTACHED TO BOTTOM OF TRUSSES. TAPE AND MUD ONLY. REFER TO REFLECTED CEILING PLAN FOR EXTENTS.
- ROOF RIDGE VENT, RE: G005
- CONCRETE RETAINING WALL WITH METAL GUARDRAIL. RE: SHEET G005, WALL SECTIONS AND DETAILS.
- PREFINISHED MTL GUTTER AND DOWNSPOUT



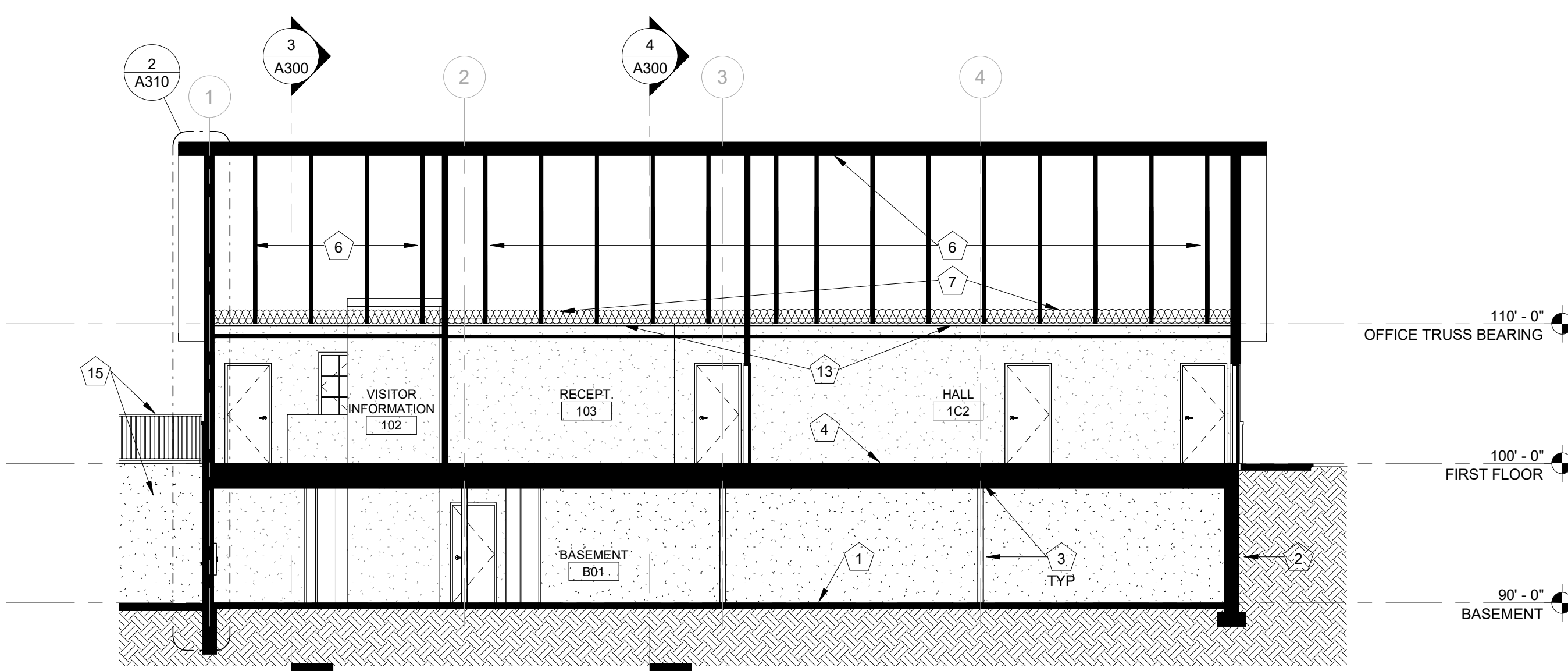
4 BUILDING SECTION
1/8" = 1'-0"



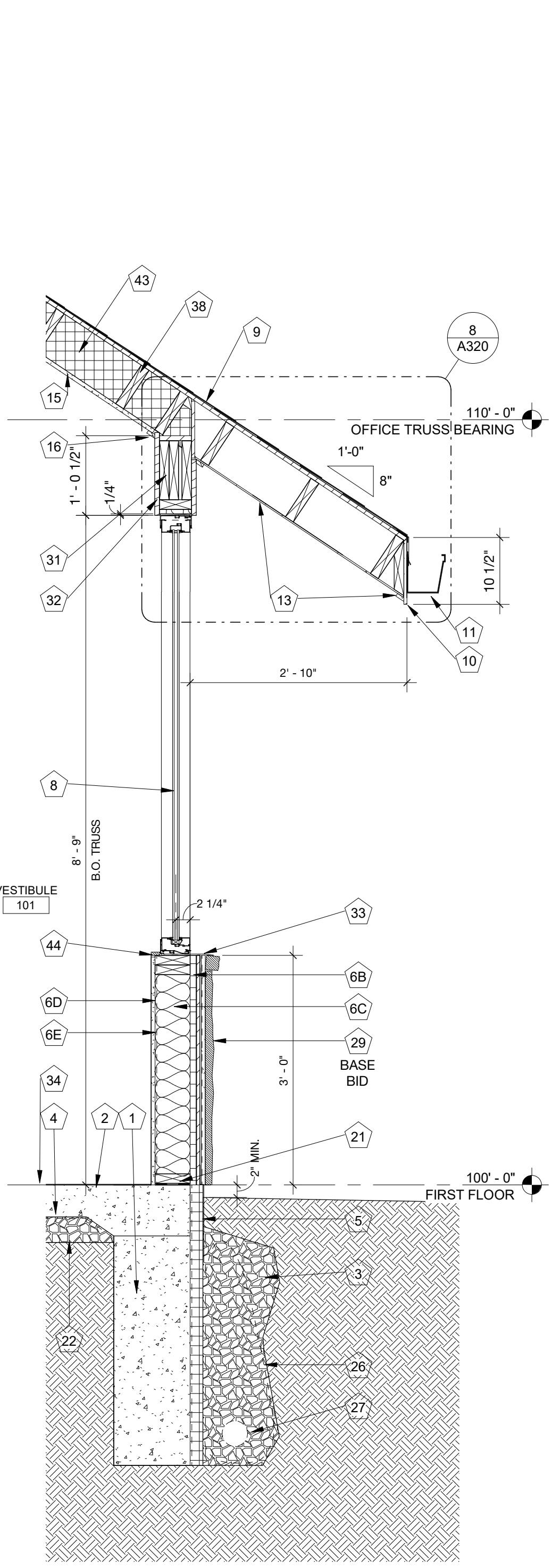
3 BUILDING SECTION
1/8" = 1'-0"



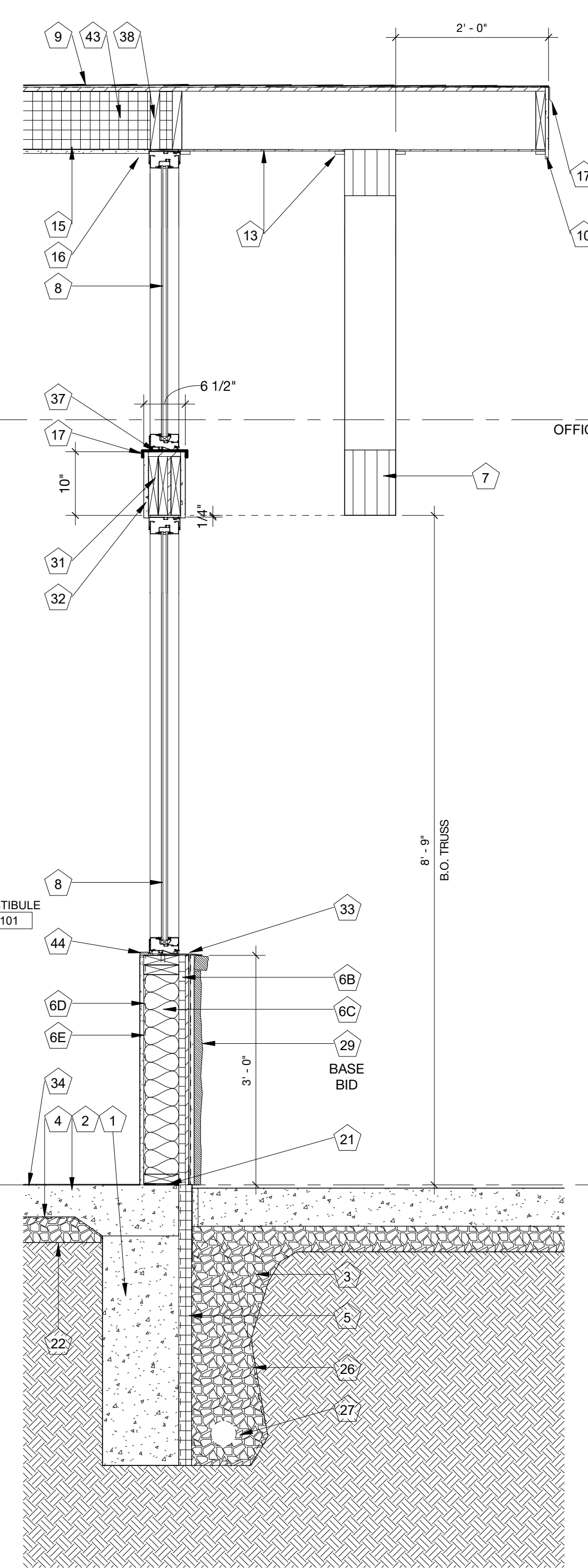
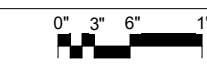
2 BUILDING SECTION
1/8" = 1'-0"



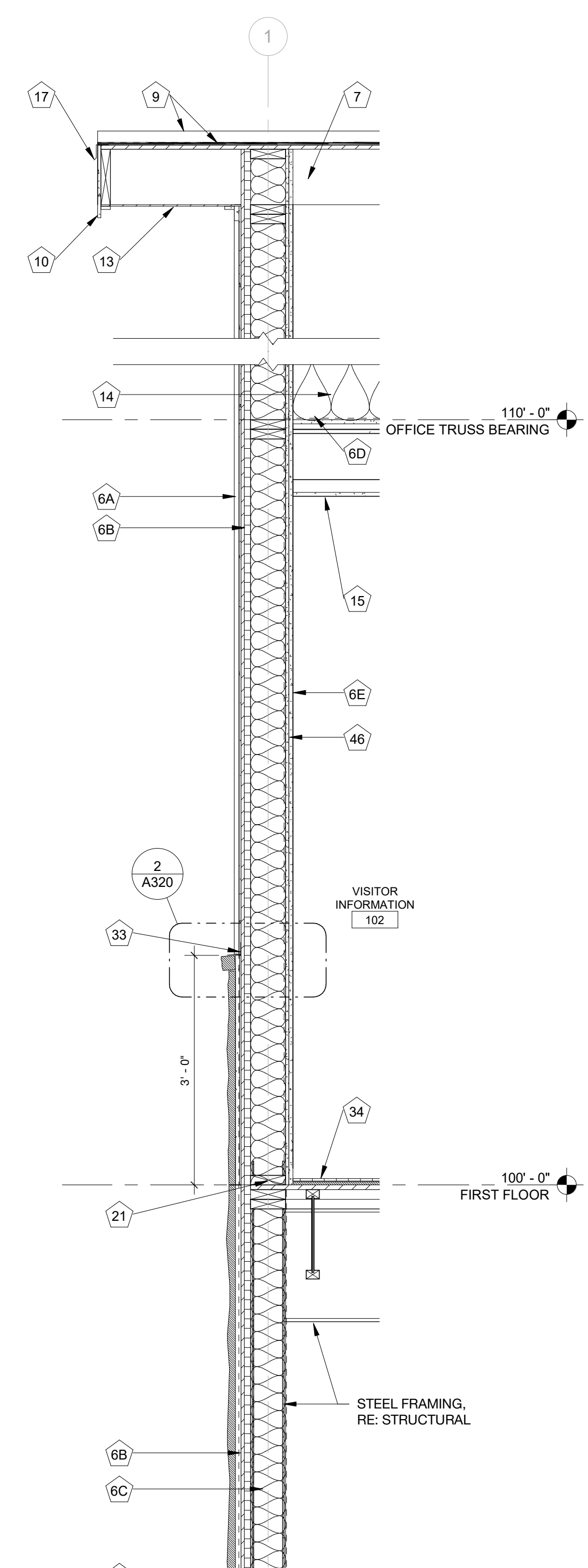
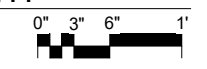
1 BUILDING SECTION
1/8" = 1'-0"

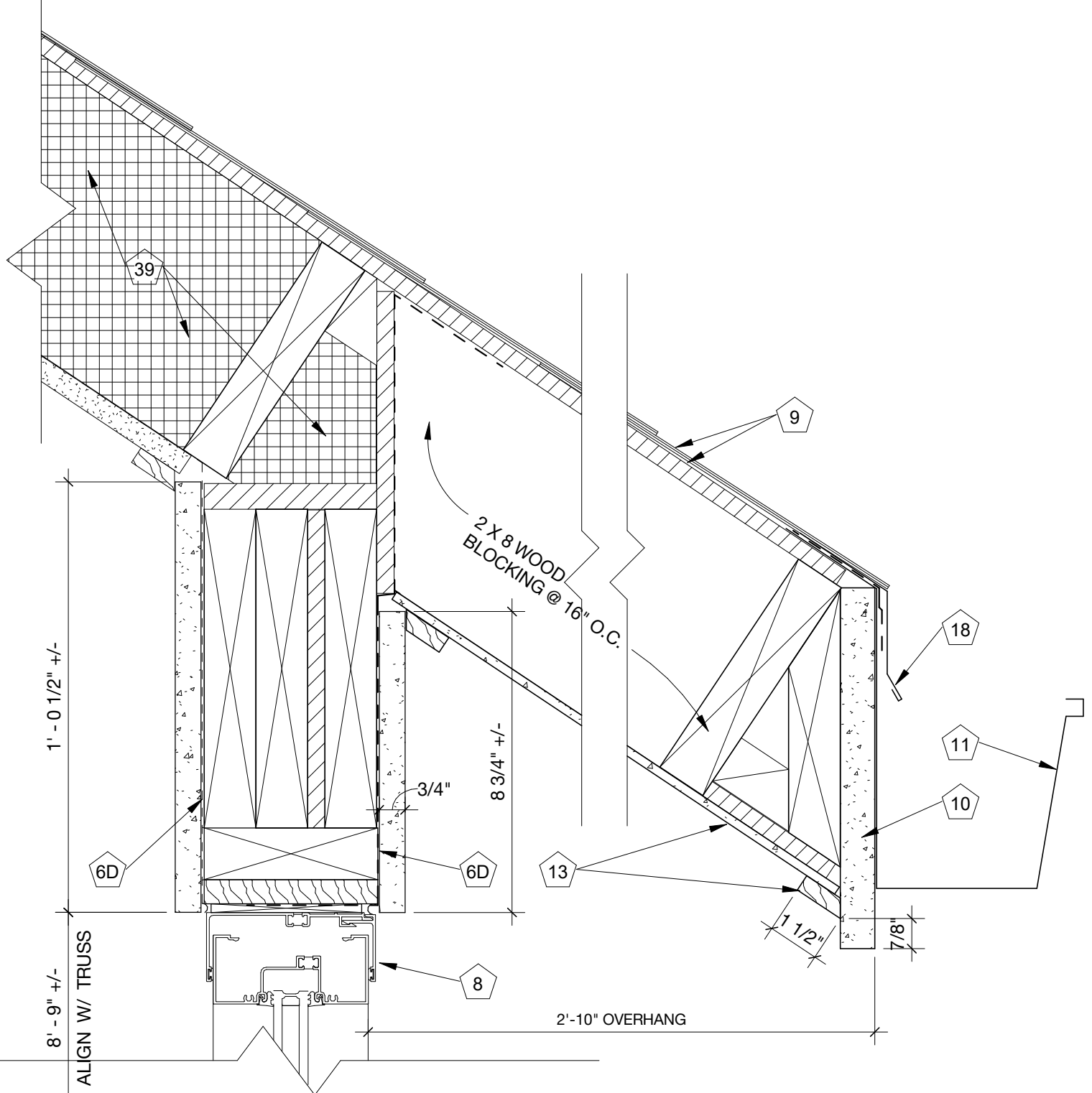


4 WALL SECTION @ VEST.
3/4" = 1'-0"

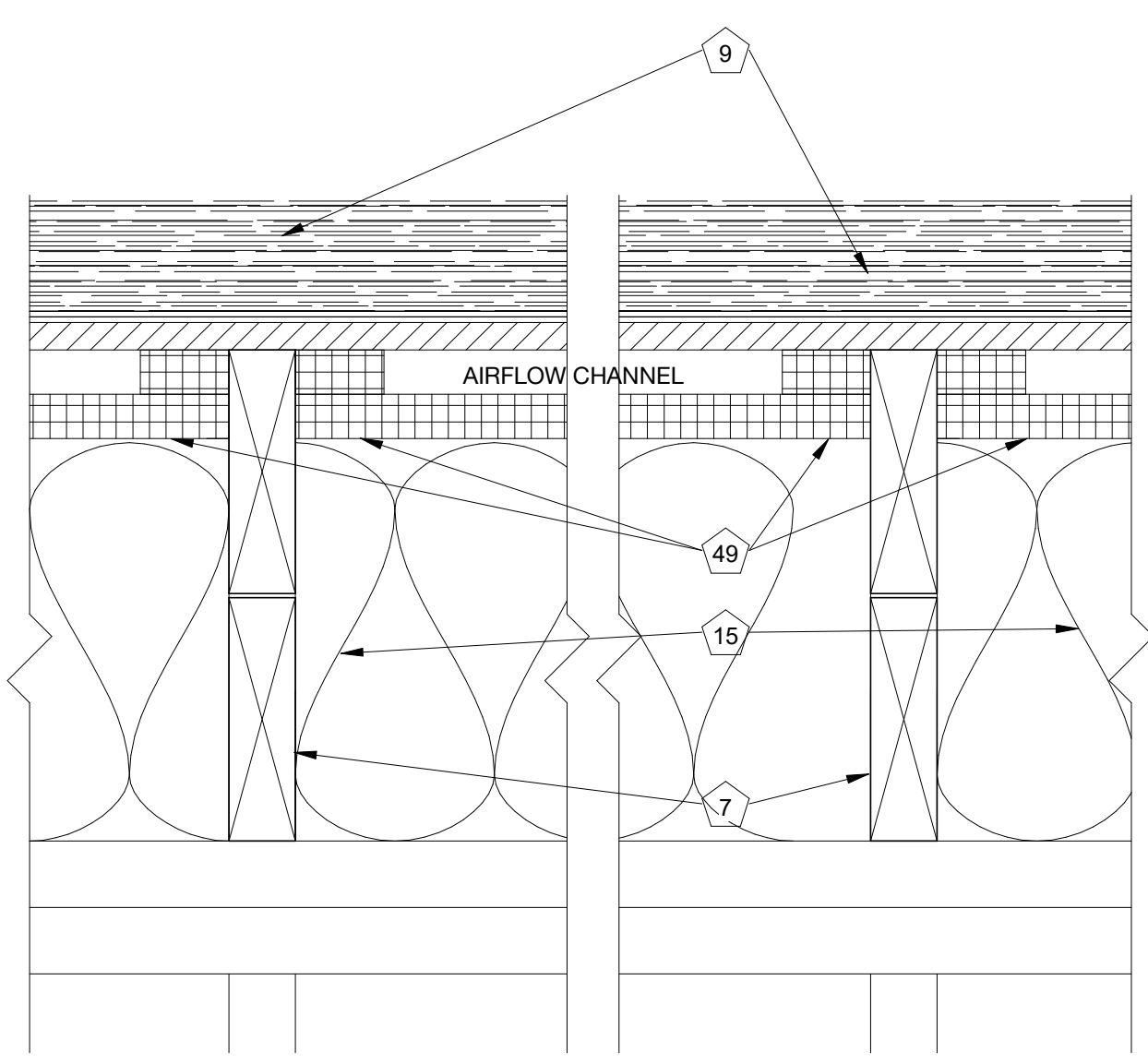


3 WALL SECTION @ VEST. SOUTH
3/4" = 1'-0"

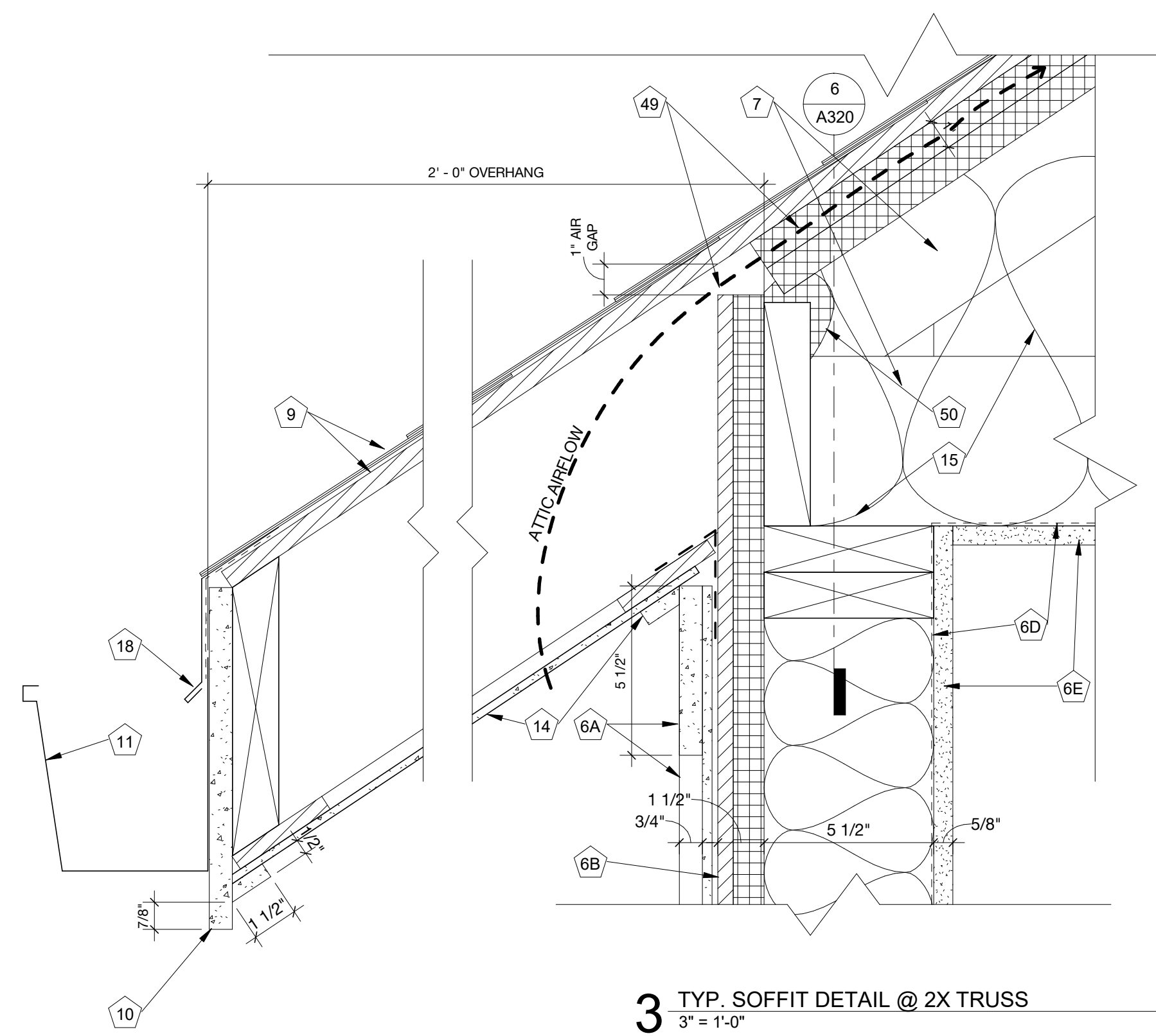




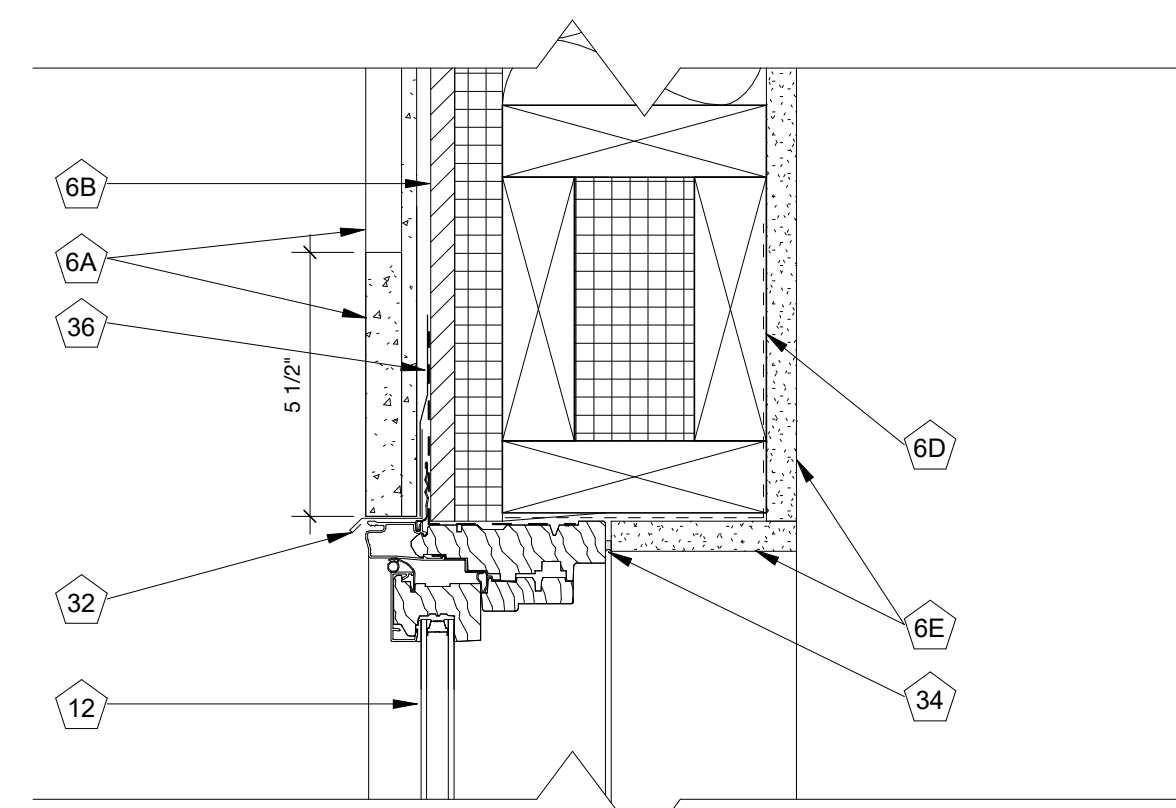
8 STOREFRONT HEAD DETAIL @ VESTIBULE
3" = 1'-0"



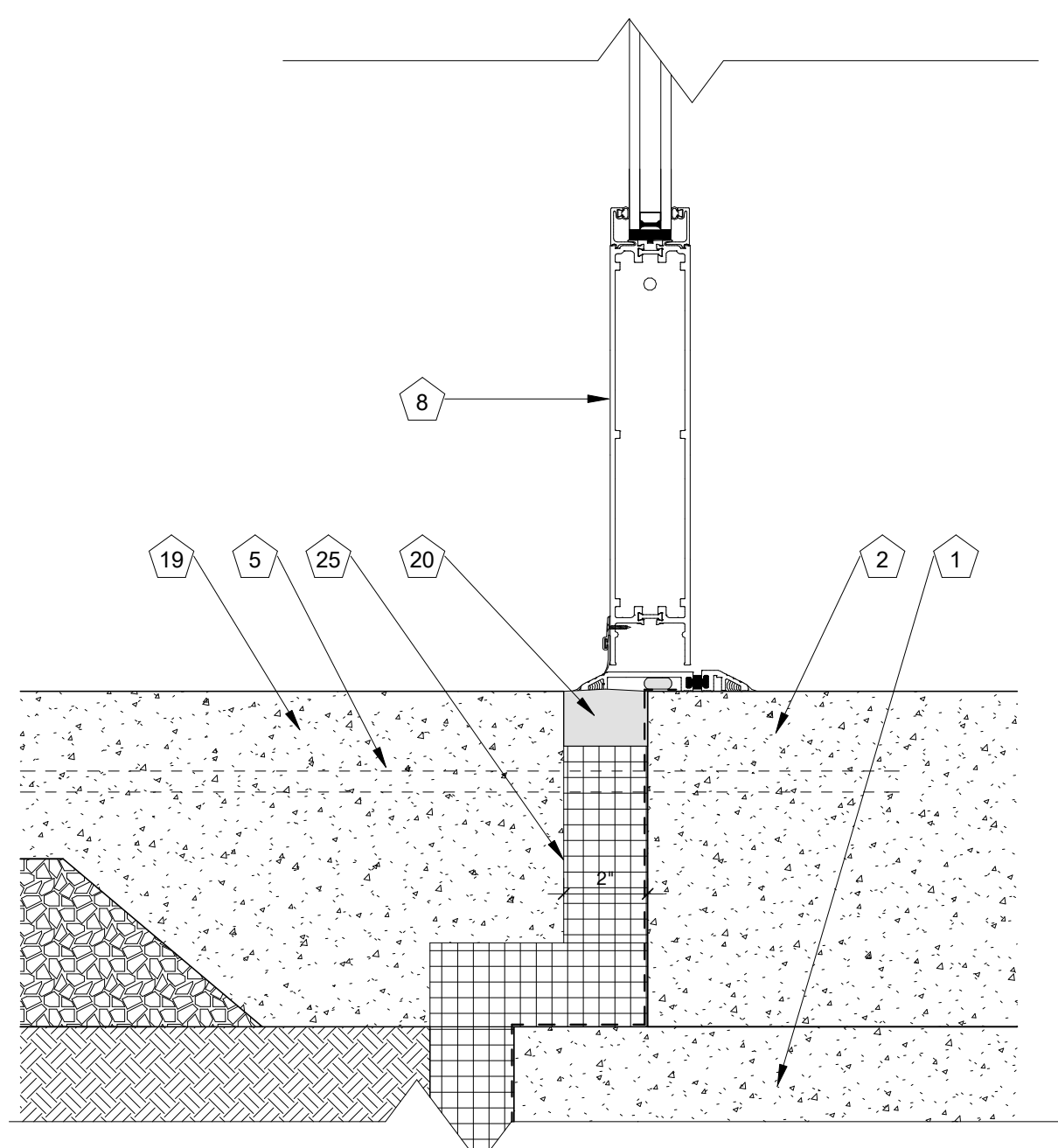
6 RIGID INSULATION @ ATTIC DETAIL
3" = 1'-0"



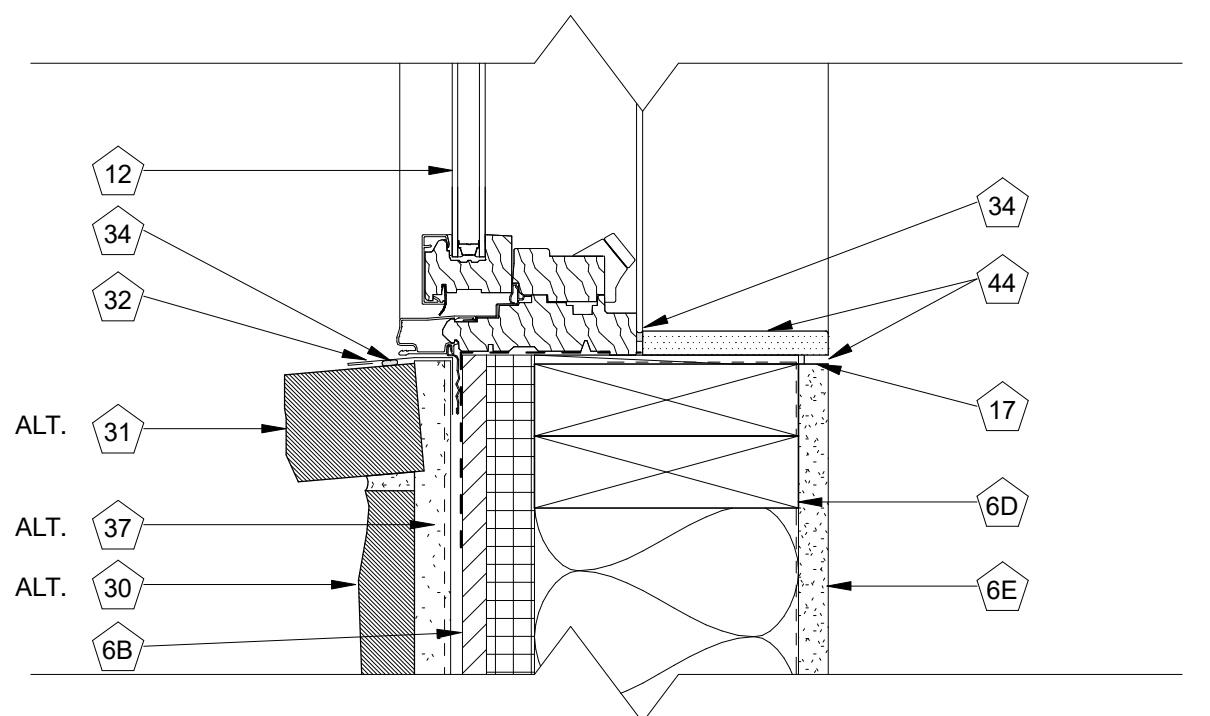
3 TYP. SOFFIT DETAIL @ 2X TRUSS
3" = 1'-0"



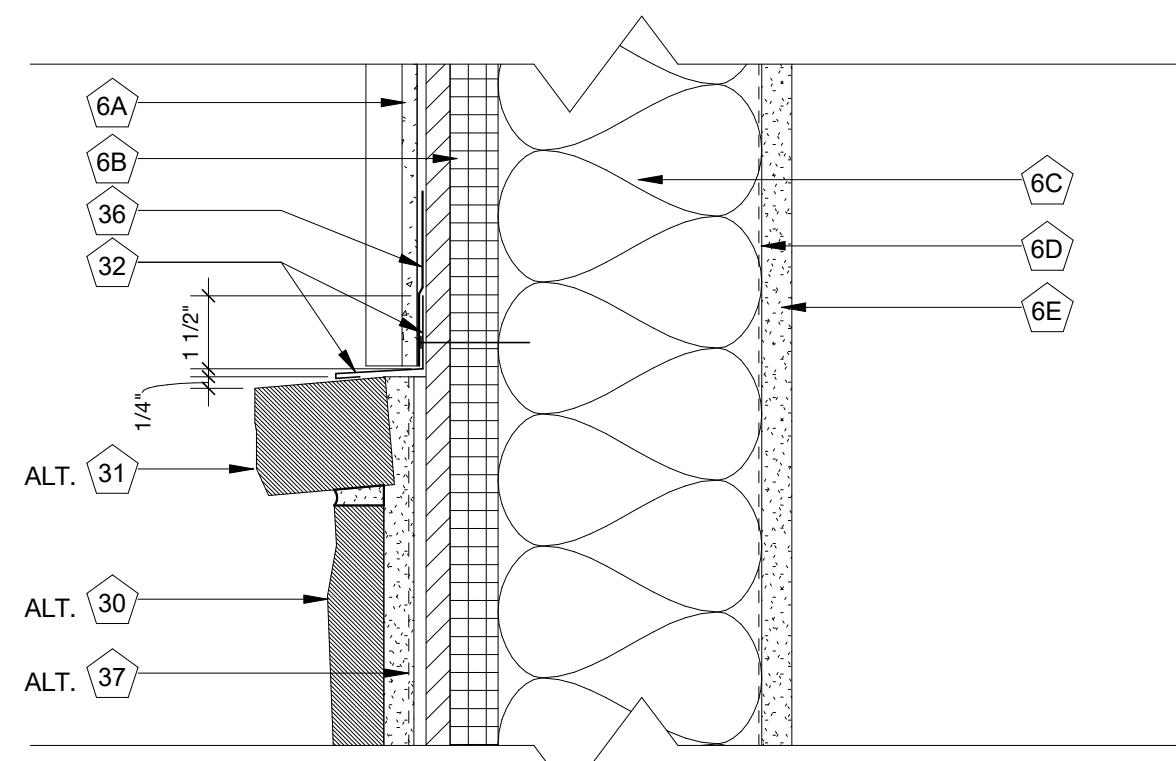
5 TYP. CASEMENT WOOD CLAD HEAD DETAIL
3" = 1'-0"



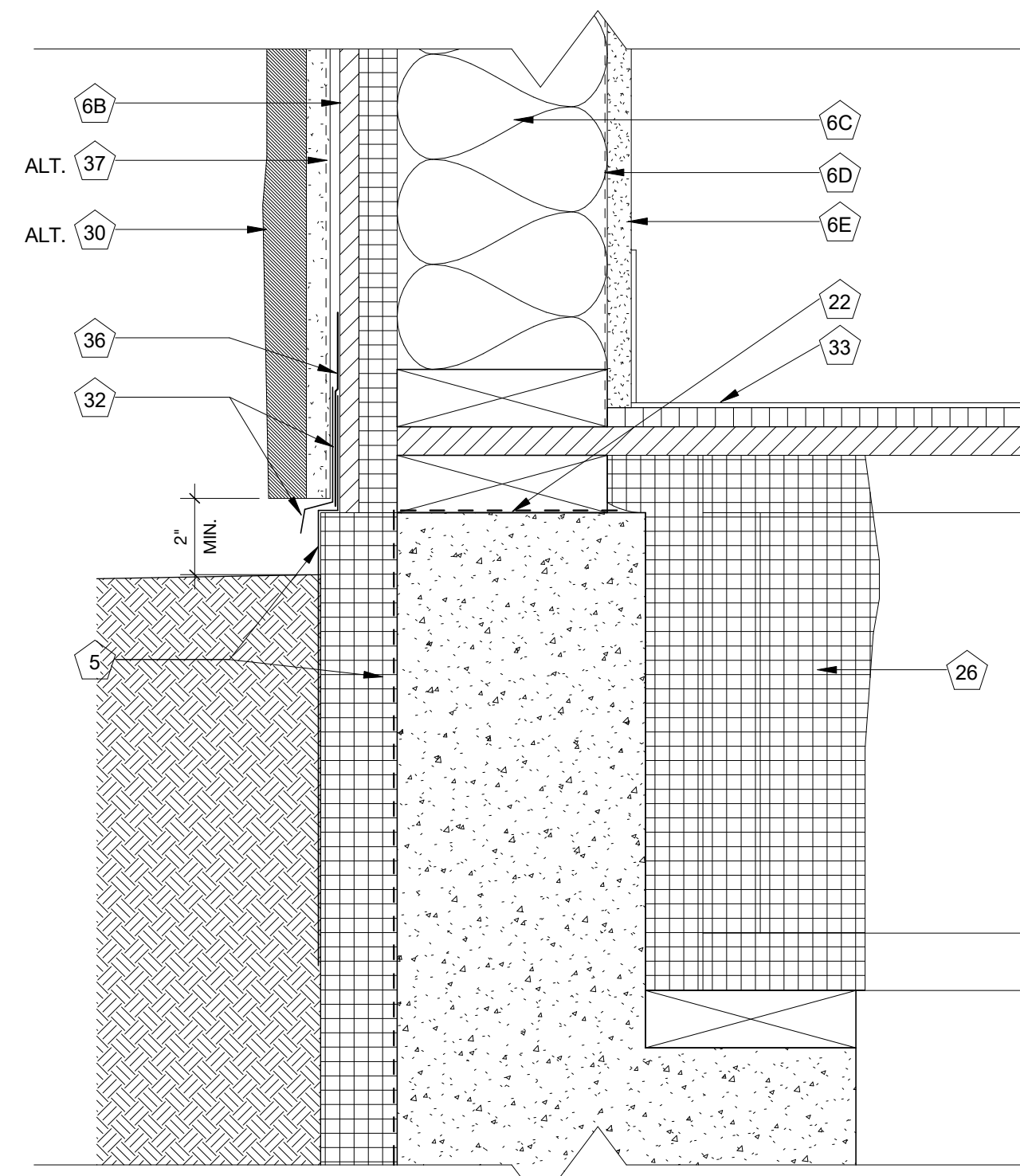
7 TYP. STOREFRONT DOOR SILL DETAIL
3" = 1'-0"



4 TYP. CASEMENT WOOD CLAD SILL DETAIL
3" = 1'-0"



2 TYP. TOP OF WAINCOT DETAIL
3" = 1'-0"



1 TYP. STONE WAINCOT @ GRADE
3" = 1'-0"

GENERAL NOTES

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- EXTERIOR FINISHES TO BE PRE-FINISHED METAL AND FIBER CEMENT BOARD PER SPECIFICATION.
- WOOD IN CONTACT WITH CONCRETE TO BE TREATED.
- REFER TO STRUCTURAL INFORMATION FOR BEARING WALL FRAMING, SHEAR WALL, CONNECTIONS, TRUSSES AND BUILDING CONCRETE.
- LUMBER: COMPLY WITH DOC PS 20 AND APPLICABLE RULES OF GRADING AGENCIES. NON-LOAD BEARING INTERIOR PARTITIONS CONSTRUCTION OR NO. 2 GRADE.
- PRESERVATIVE TREATMENT ITEMS INDICATED ON DRAWINGS, AND WOOD SILLS, SLEEPERS, BLOCKING, FURRING AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH CONCRETE.
- SILL-PLATE SEALER: PERIMETER EXTERIOR WALLS PROVIDE SILL PLATE SEALER. USE TRIPLE GUARD ENERGY SILL SEALER, W/ PRIMERS. MANUF. BY PROTECTO WRAP CO. (800) 759-9727 OR APPROVED EQUAL. A SELF-ADHERED MEMBRANE WITH RUBBERIZED ASPHALT ADHESIVE WITH A LAYER OF 3/8" CLOSED CELL FOAM AND TWO FLAPS DESIGNED TO ADHERE UP ON THE SHEATHING AND DOWN ON THE FOUNDATION FORMS AT T-BONE GASKET WITH 2" LOWER FLAP AND 3" UPPER FLAP. APPROVED EQUAL SUBSTITUTIONS ARE ALLOWED.
- FLEXIBLE FLASHING: WHERE FLEXIBLE FLASHING IS INDICATED OR REQUIRED, PROVIDE COMPOSITE, SELF-ADHESIVE, FLASHING PRODUCT CONSISTING OF A PLIABLE, BUTYL RUBBER OR RUBBERIZED-ASPHALT COMPOUND, BONDED TO A HIGH-DENSITY POLYETHYLENE FILM, ALUMINUM FOIL, OR SPUNBONDED POLYOLEFIN TO PRODUCE AND OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH. ADHESIVES FOR TO CONCRETE: FORMULATION FORMULATION COMPLYING WITH ASTM D3498 THAT IS APPROVED FOR USE INDICATED BY ADHESIVE MANUFACTURER.
- SELF-ADHERING SHEET WATERPROOFING; SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE W.R.MEADOWS, INC. MEL-ROL OR COMPARABLE PRODUCT.
- INSULATION TYPES: SEE SHEET A301 FOR ADDITIONAL INFORMATION.

BLDG SECTION NOTES

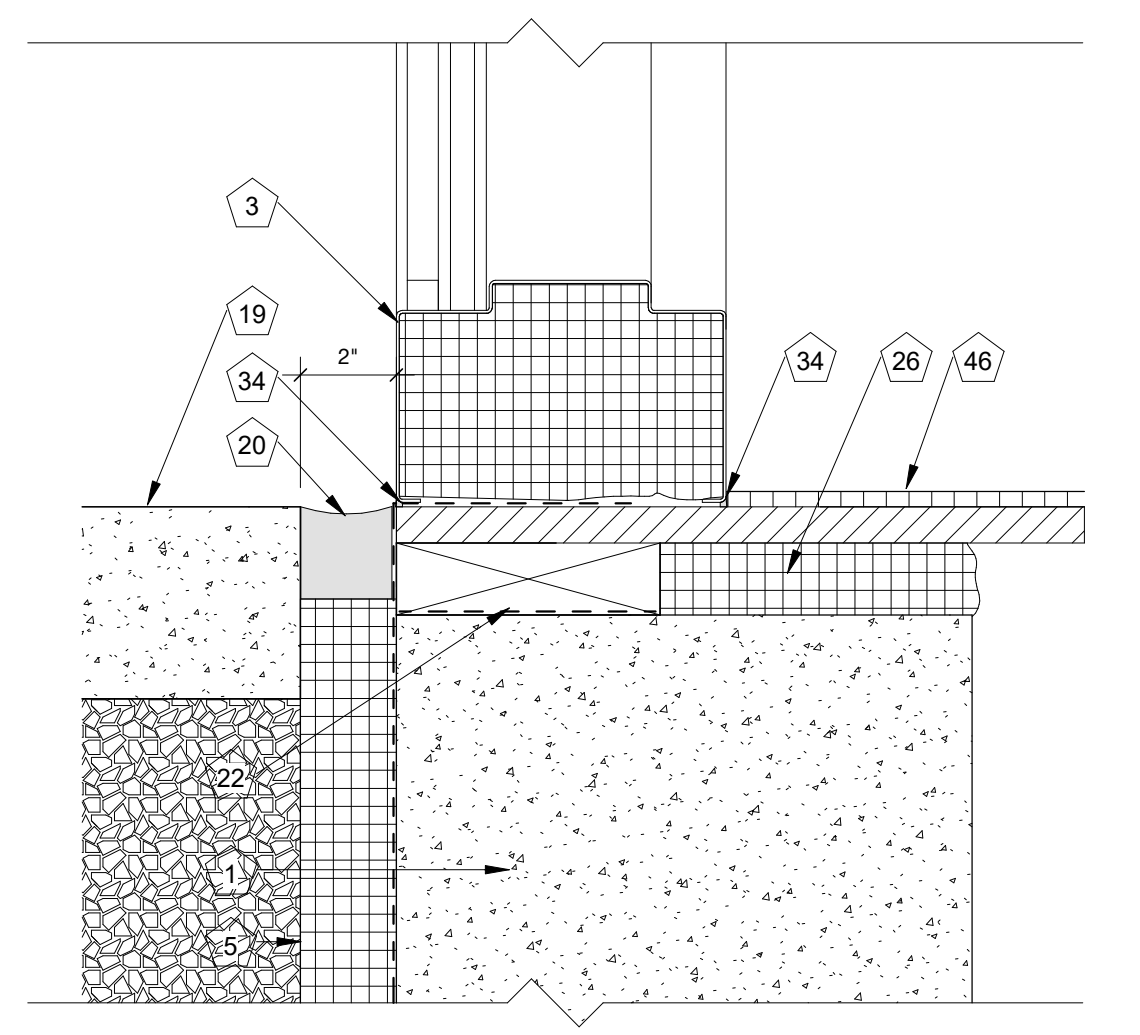
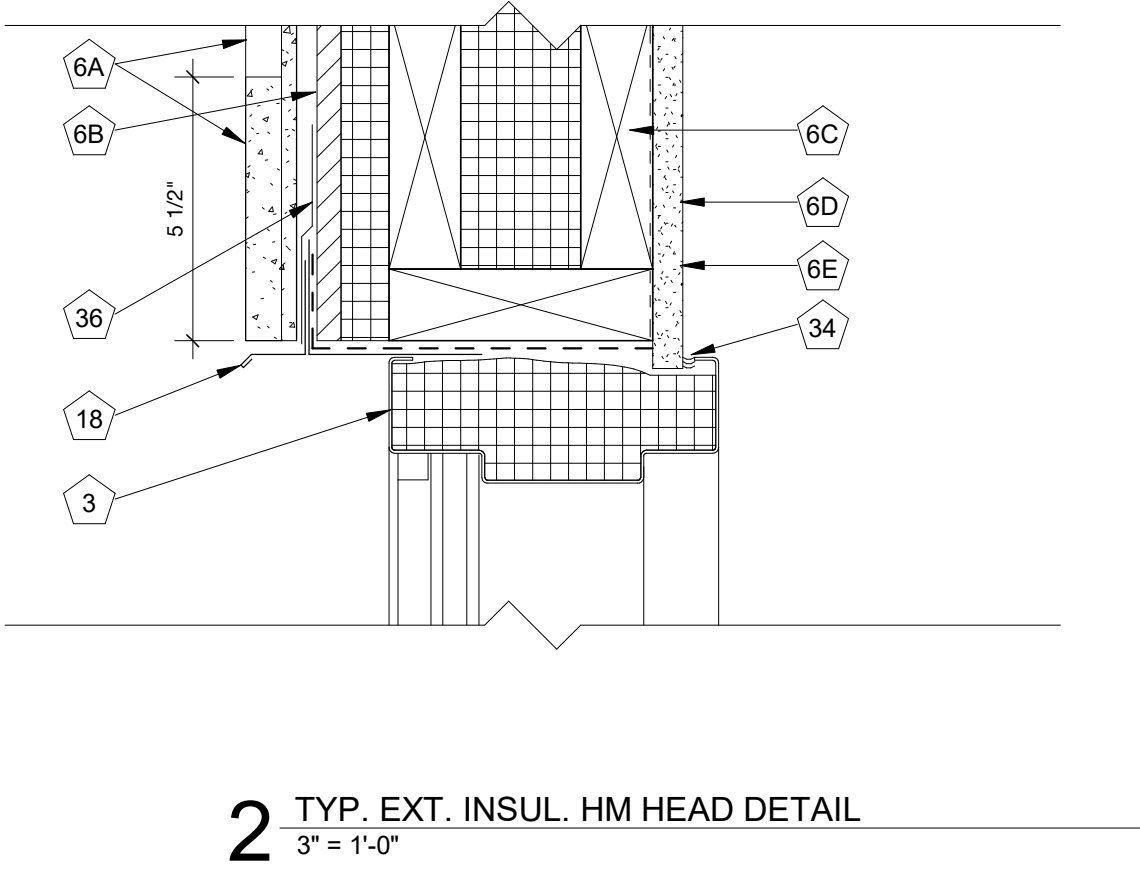
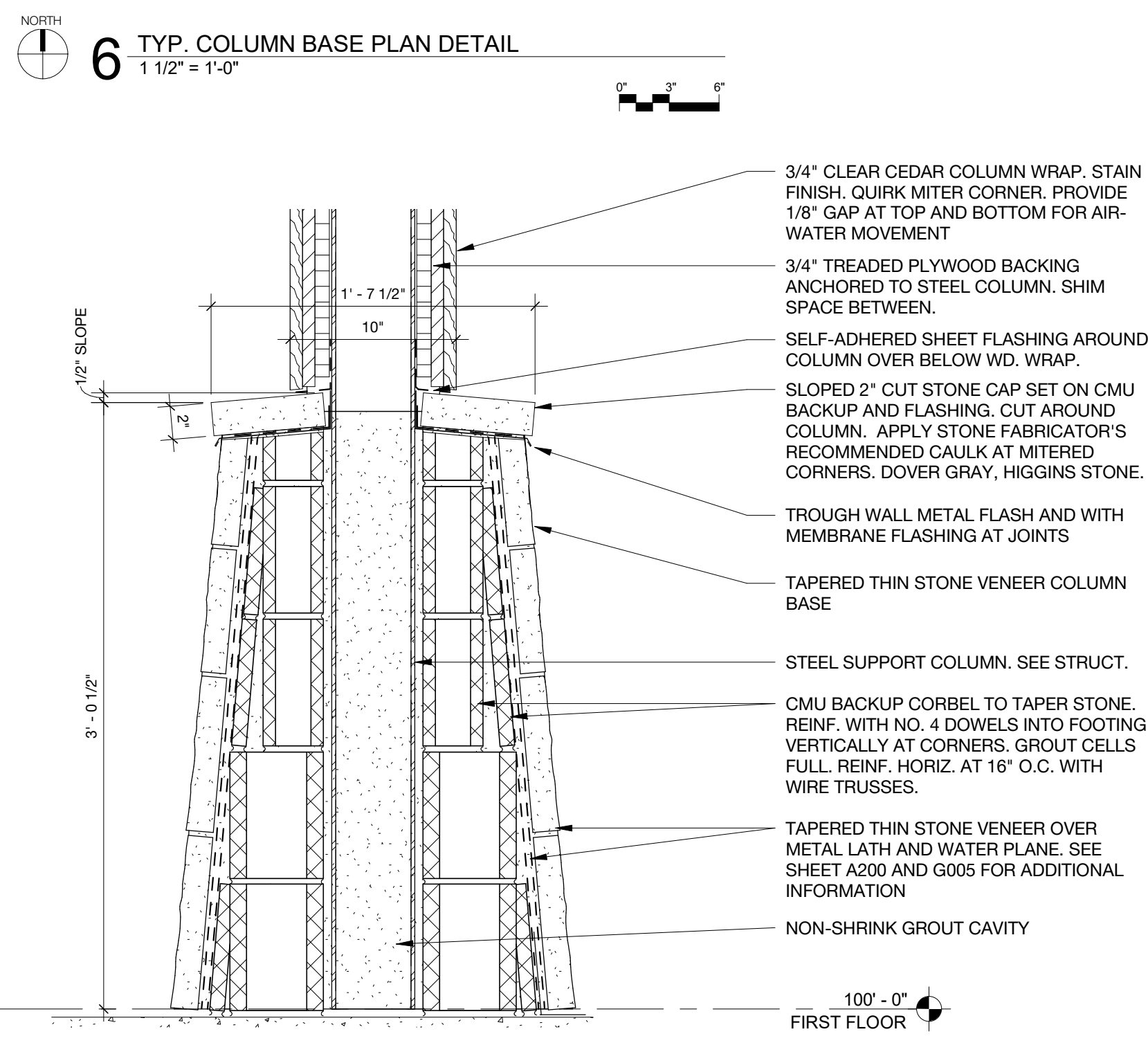
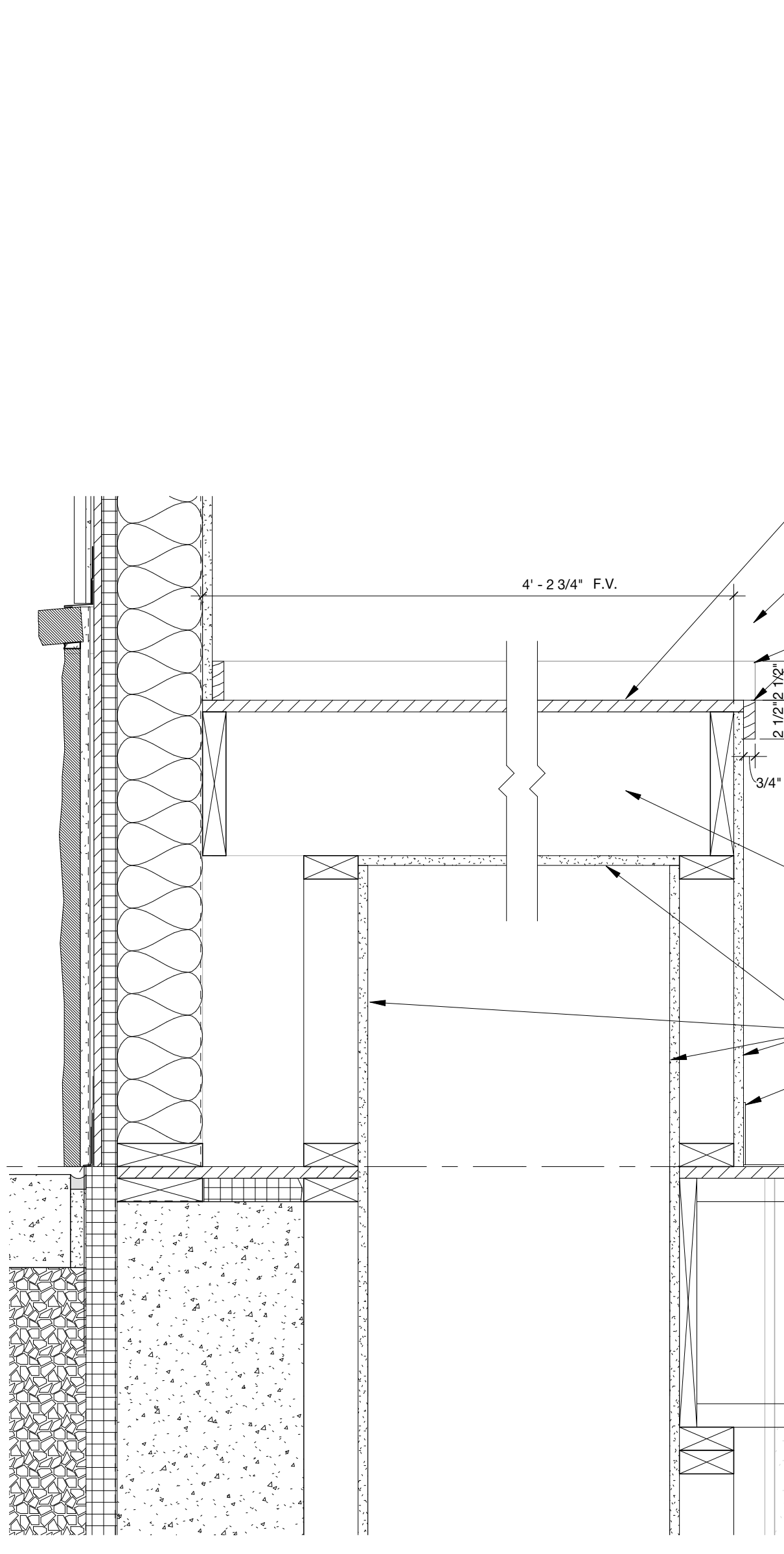
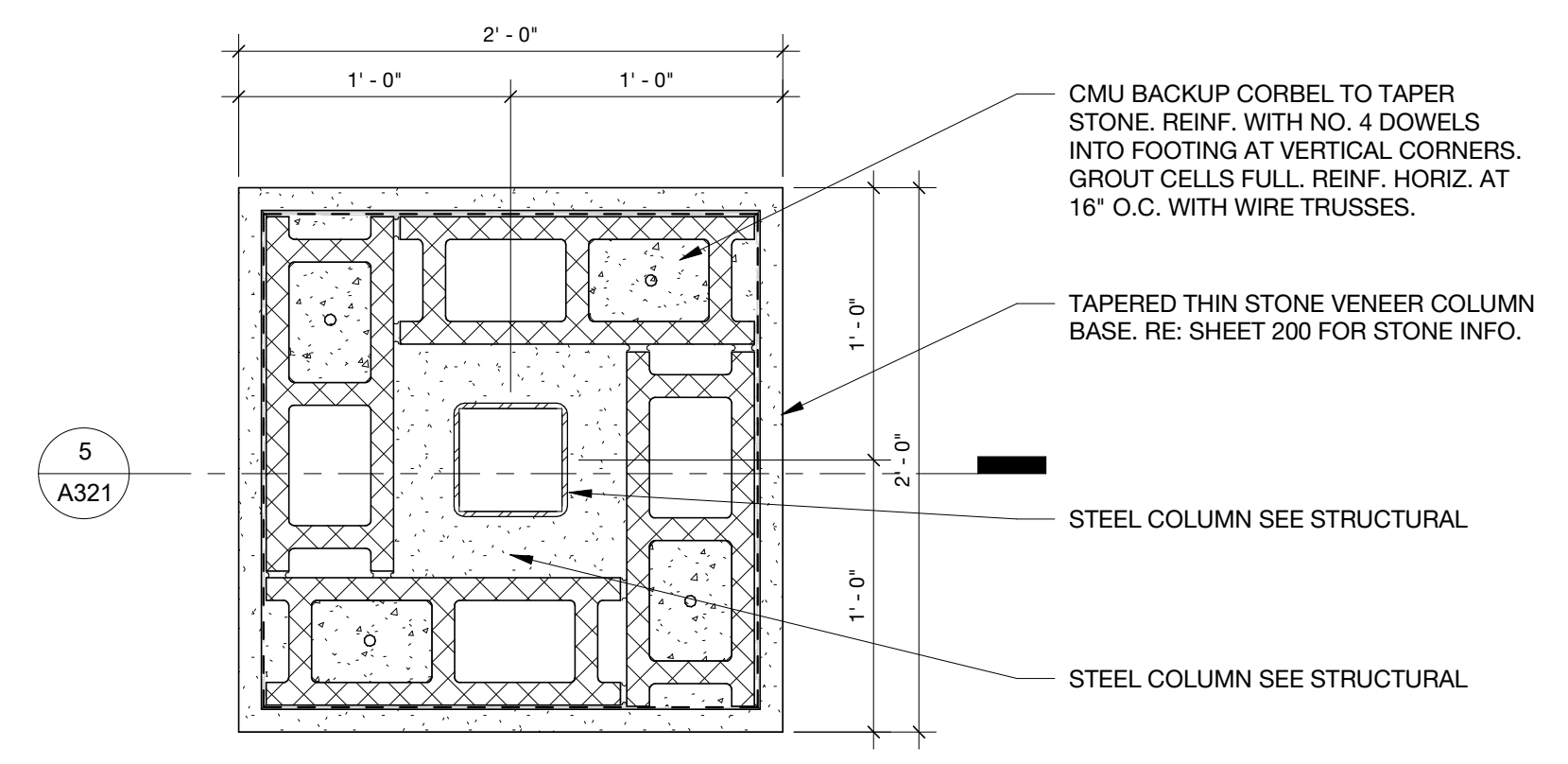
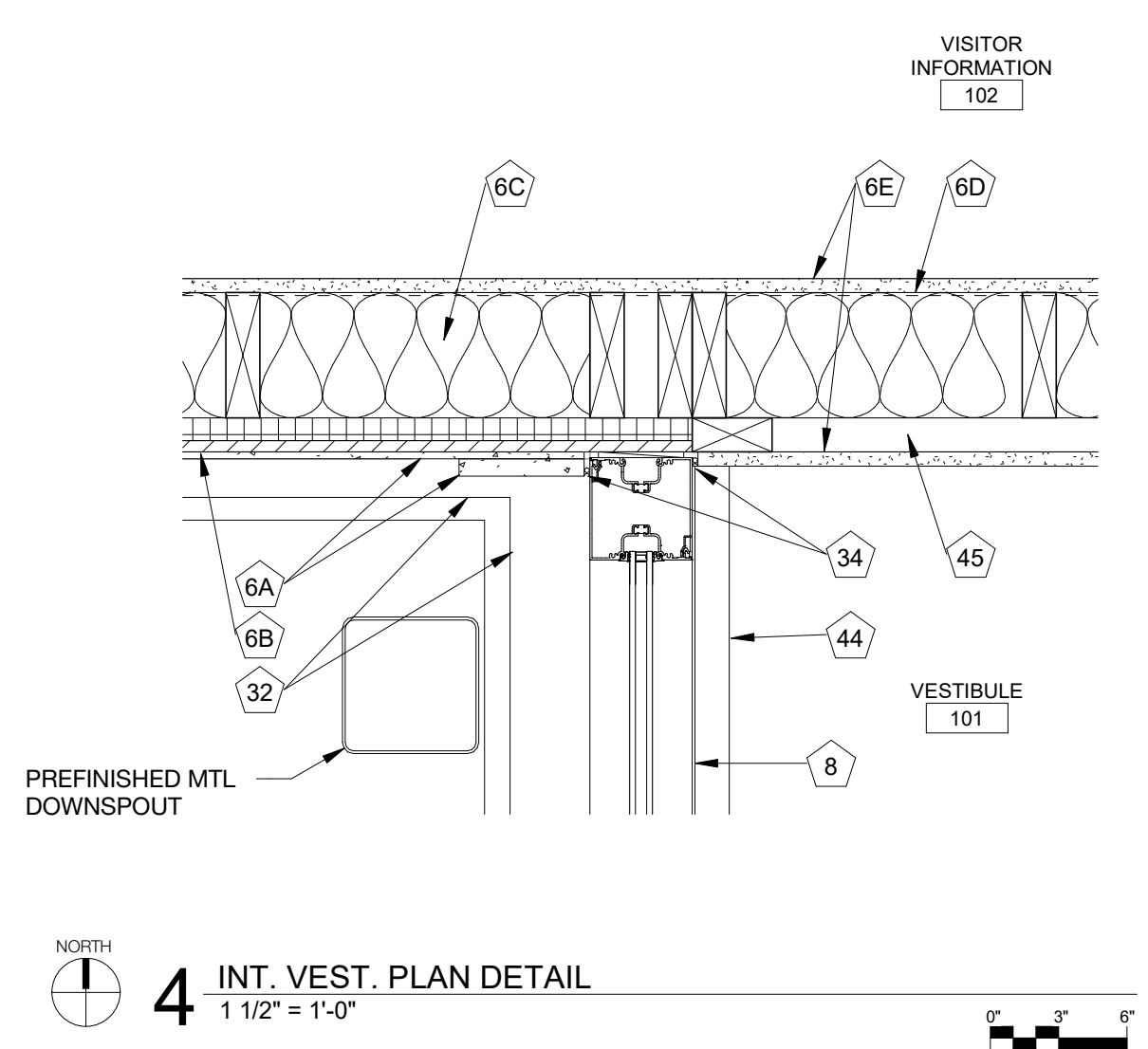
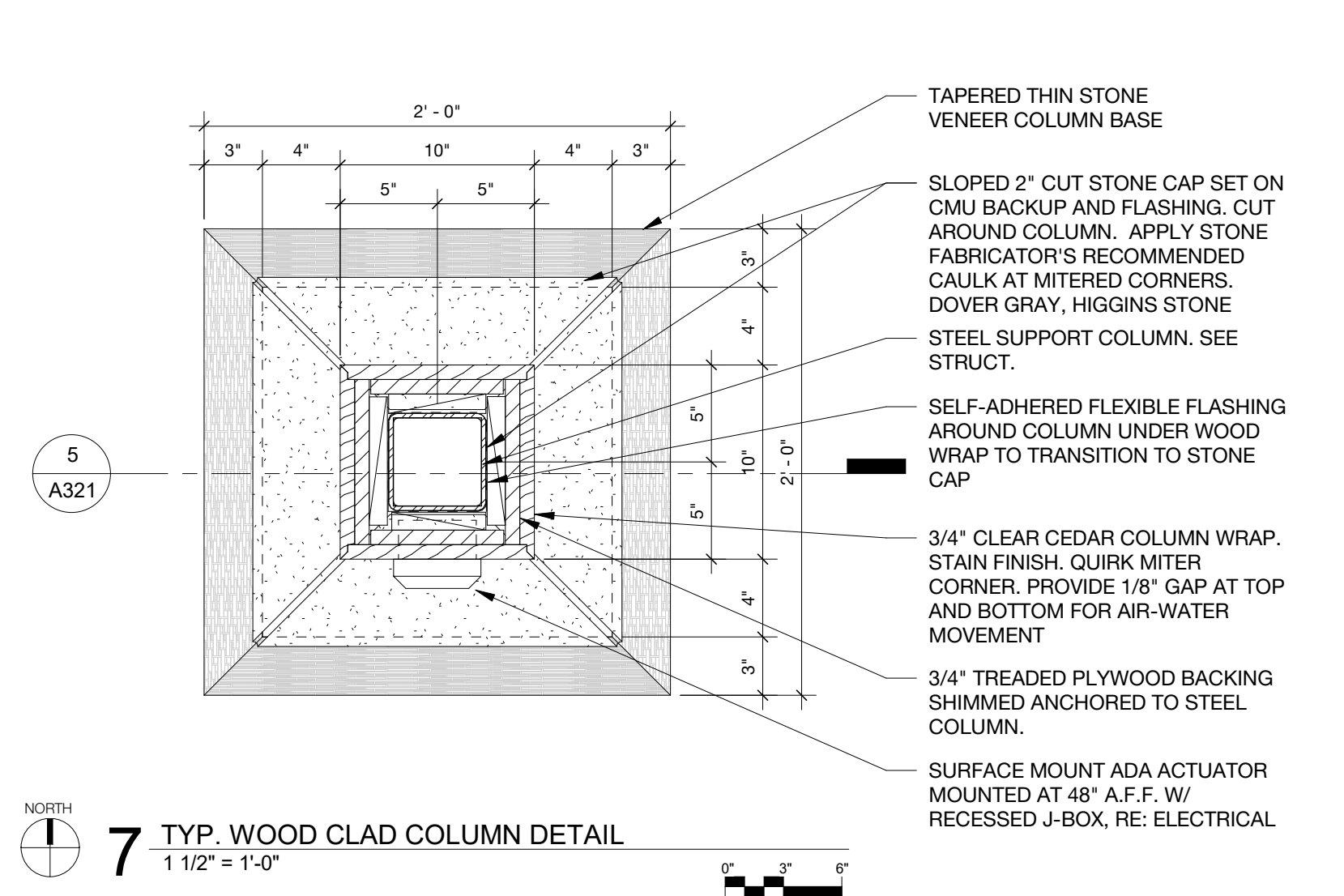
- CONCRETE FOUNDATION AND FOOTING. RE: STRUCTURAL.
- CONCRETE SLAB ON GRADE. RE: STRUCTURAL.
- THERMALLY BROKEN HOLLOW METAL FRAME. FILL FRAME WITH SPRAY FOAM INSUL. PER MANUF. RECOMMENDATIONS.
- VAPOR BARRIER OVER GRAVEL FILL.
- MIN. R-10 RIGID INSULATION OVER FULLY ADHERED WATER BARRIER TO FACE OF CONCRETE FOUNDATION, FULL HEIGHT OF WALL. PROTECT EXPOSED RIGID INSULATION WITH PREFINISHED BREAKMETAL.
- TYP. EXTERIOR WALL CONSTRUCTION (EXTERIOR TO INTERIOR) REFER TO EXTERIOR ELEVATIONS AND WALL SECTION SHEETS FOR ADDITIONAL INFORMATION:
 - VERTICAL BOARD AND BATTEN FIBER-CEMENT BOARD.
 - 1-1/2" ZIP RAIL R-8 SHEATHING INSULATED PANEL.
 - STRUCTURAL 2X8 WOOD FRAMING WITH 5 1/2" MIN. R-20 UNFACED BATT INSULATION IN STUD SPACE. PROVIDE FIRE OR STRUCT. BLOCKING PER CODE. RE: STRUCTURAL FOR ADDITIONAL REQUIREMENTS.
 - VAPOR BARRIER, TAPE AND SEAL GAPS AND JOINTS AND STAPLES. (INTERIOR SIDE OF STUDS).
 - 5/8" INTERIOR TYPE-X GPBD FINISH. SEE FINISH SCHEDULE.
- PRE-ENGINEERED TIMBER OR WOOD TRUSS ROOF FRAMING. RE: STRUCTURAL.
- 4 1/2" ALUM. THERMALLY BROKEN STOREFRONT SYSTEM. PROVIDE MANUF. CONTINUOUS ALUM. SILL FLASHING END DAM SET IN CONT. BED OF SEALANT. SHIM LEVEL. REFER TO WINDOW SCHEDULE.
- ASPHALT SHINGLES OVER 5/8" ZIP ROOF SHEATHING.
- 1X FIBER CEMENT FASCIA BOARD, USE HARDIE SMOOTH TRIM PRIMED FOR PAINT. CUT BOARD FASCIA BOARD HEIGHT TO COVER EAVE FRAMING AND SOFFIT PANEL TRIM.
- PREFINISHED METAL GUTTER. PROFILE: SQUARE, SIZE: 6 X 6, GAUGE: 24 AND COLOR TO BE DETERMINED FROM FULL RANGE OF STANDARD COLORS.
- CASEMENT OR FIXED WINDOWS. RE: WINDOW SCHEDULE.
- FINISH BOTTOM OF EXTERIOR OVERHANGS WITH 1/4" THICK HARDIE SOFFIT PANEL SMOOTH FINISH.
- ROOF SOFFIT AT OPEN RAFTERS USE VENTED SMOOTH - PRE-PRIMED FOR PAINT FINISH. TYP. TRIM ALONG PERIMETER WITH 1X2 TRIM. LP SMART-SIDING 440 SERIES SMOOTH FINISH TRIM PRIME FOR PAINT FINISH. SPACED SHEATHING AS NEED TO SUPPORT LP SOFFIT BD.
- MIN. R-38 BLOWN-IN INSULATION AT TRUSS LOCATIONS. CEILING PER REFLECTED CEILING PLAN.
- FINISHED EDGE OF GPBD. PAINT FINISH.
- PREFINISHED FLASHING WITH HEMMED DRIP EDGE. APPLY SEALANT TAPE TO PROVIDE WATER TIGHT SEAL TO SHEATHING.
- CONCRETE PAVING. REF. CIVIL.
- EXPANSION JOINT WITH SEALANT.
- METAL COUNTER FLASHING WITH BEAD OF SEALANT.
- SILL PLATE SEAL: 5-1/2" 20 MIL RUBBERIZED ASPHALT MASTIC WITH BACKED FOAM SILL SEAL. SEE GEN. NOTE 9 A310.
- 24" OF SOIL REPLACEMENT WITH ENGINEERED BACKFILL AND GRAVEL DRAINAGE LAYER UNDER NEW SLAB. REFER TO GEOTECHNICAL REPORT.
- NOT USED.
- #5 X 24" DOWEL DRILLED 8" INTO EXISTING SLAB ON GRADE AT EXTERIOR DOOR AND 2' BEYOND THE LATH-NET SIDE OF DOOR.
- 6" THICKNESS OF SPRAY FOAM INSULATION @ PERIMETER OF TOP OF WALL.
- CONT. FILTER FABRIC. BEFORE BACKFILLING WITH TOP SOIL.
- 4" PERF. FOUNDATION DRAIN PIPE AT ADDITIONAL.
- NOT USED.
- 1-1/4" STONE VENEER WAINCOT SET IN SCRATCH COAT AND BONDING MORTAR SET OVER DRIWALL LATH-NET DRAINAGE SYSTEM. REF: SHEET A200 FOR STONE FINISH INFORMATION.
- STONE LEDGE. SLOPE TO DRAIN.
- 24 GA. (.0239" / .607MM) PRE-FINISHED CONT. METAL FLASHING W/ TURNED UP 2" LEG ATTACHED AND SEALED TO SHEATHING. USE SHEATHING MANUF. RECOMMENDED FLEXIBLE SHEET OVER FLASHING.
- FLOOR FINISH (AND 1/2" CEMENT BOARD SUBFLOOR AT TILE LOCATIONS) OVER STRUCTURAL SUBFLOOR. REFERENCE STRUCT. AND FINISH SCHEDULE.
- SEALANT. SEE SEALANT SCHEDULE.
- GASKETED INSULATED ALUM. ACCESS DOOR: WILLIAMS BROTHER WB AL 1500 96X36 OR EQUAL. COORDINATE EXACT LOCATION WITH HVAC EQUIP.
- FLEXIBLE FLASHING. SEE GENERAL NOTE 10 ABOVE.
- DRAINAGE MAT AND METAL LATH SYSTEM MECHANICALLY FASTENED TO SHEATHING PER MFG RECOMMENDATIONS. BASIS OF DESIGN: DRIWALL LATH-NET BY KEENE BUILDING PRODUCTS.
- KEENE BUILDING CO. PROVIDE WEEP SCREED AND OTHER ACCESSORIES REQUIRED BY MFG. FOR COMPLETE INSTALLATION.
- 2X8 WOOD FRAMED ROOF. RE: STRUCTURAL.
- SPRAY CLOSED CELL FOAM WITH MIN. R-38 BETWEEN 2X8 FRAMING. RE: G005 FOR MATERIAL INFORMATION.
- 5/8" GPBD ATTACHED TO 2X4 FURRING ANCHORED TO BOTTOM CHORD OF TRUSS.
- PLYWOOD DECK OVER WOOD FRAMING. RE: STRUCTURAL.
- FLOOR GRILLE. CUT BOTTOM OF FLANGE AT EACH FLOOR TRUSS LOCATION. REF: MECHANICAL.
- 1/2" PLYWOOD SHEATHING.
- SOLID SURFACE WINDOW SILL W/ 3/16" RIP-BEAD SHADOW REVEAL BY CLARK-DIETRICH (OR EQUAL) RE: FINISH SCHEDULE.
- 2X4 HORIZ. FURRING AT 24" O.C. IN LIEU OF ZIP R-SHEATING.
- FINISH FLOORING. SEE FINISH SCHEDULE.
- 1 X WOOD TRIM. PAINT FINISH.
- 2 X 4 WOOD FRAMING AND BLOCKING FILL AIR GAPS WITH INSULATION.
- AIR GAP AT TOP OF ZIP R-SHEATHING TO ALLOW VENTILATION. 4'-0" L. 1" BUILT-UP RIGID BOARD INSULATION TO FORM U-SHAPE CHANNEL BETWEEN EACH TRUSS.
- SPRAY FOAM INSULATION TO SEAL GAPS.

GENERAL NOTES

- KEY NOTES BELOW REFER TO DRAWINGS ON SHEETS A320-A321 ONLY.
- ALL NOTES MAY NOT BE REFERENCED ON EACH PLAN.
- ALL ITEMS OF WORK MAY NOT BE INDIVIDUALLY NOTATED WITH CONSTRUCTION NOTE. SCOPE OF WORK INCLUDES SIMILAR ITEMS WHETHER OR NOT SPECIFICALLY INDICATED AND ARE TYPICAL, UNLESS OTHERWISE NOTED.
- EXTERIOR FINISHES TO BE PRE-FINISHED METAL AND FIBER CEMENT BOARD PER SPECIFICATIONS.
- WOOD IN CONTACT WITH CONCRETE TO BE TREATED.
- REFER TO STRUCTURAL INFORMATION FOR BEARING WALL FRAMING, SHEAR WALL, CONNECTIONS, TRUSSES AND BUILDING CONCRETE.
- LUMBER: COMPLY WITH DOC PS 20 AND APPLICABLE RULES OF GRADING AGENCIES. NON-LOAD BEARING INTERIOR PARTITIONS CONSTRUCTION OR NO. 2 GRADE.
- PRESERVATIVE TREATMENT ITEMS INDICATED ON DRAWINGS, AND WOOD SILLS, SLEEPERS, BLOCKING, FURRING AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH CONCRETE.
- SILL-PLATE SEALER: PERIMETER EXTERIOR WALLS PROVIDE SILL PLATE SEALER. USE TRIPLE GLASS ENERGY SILL SEALER, W/ PRIMERS. MANUF. BY PROTECTO WRAP CO. (800) 759-9727 OR APPROVED EQUAL. A SELF-ADHERED MEMBRANE WITH RUBBERIZED ASPHALT ADHESIVE WITH A LAYER OF 3/8" CLOSED CELL FOAM AND TWO FLAPS DESIGNED TO ADHERE UP ON THE SHEATHING AND DOWN ON THE FOUNDATION FORMS AT T-BONE GASKET WITH 2" LOWER FLAP AND 3" UPPER FLAP. APPROVED EQUAL SUBSTITUTIONS ARE ALLOWED.
- FLEXIBLE FLASHING: WHERE FLEXIBLE FLASHING IS INDICATED OR REQUIRED, PROVIDE COMPOSITE, SELF-ADHESIVE, FLASHING PRODUCT CONSISTING OF A PLIABLE, BUTYL RUBBER OR RUBBERIZED-ASPHALT COMPOUND, BONDED TO A HIGH-DENSITY POLYETHYLENE FILM, ALUMINUM FOIL, OR SPUNBONDED POLYOLEFIN TO PRODUCE AN OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH.
- ADHESIVES FOR GLUING FURRING TO CONCRETE: FORMULATION COMPLYING WITH ASTM D3498 THAT IS APPROVED FOR USE INDICATED BY ADHESIVE MANUFACTURER.
- SELF-ADHERING SHEET WATERPROOFING; SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE W.R.MEADOWS, INC. MEL-ROL OR COMPARABLE PRODUCT.
- INSULATION TYPES: SEE SHEET A301 FOR ADDITIONAL INFORMATION.

BLDG SECTION NOTES

- CONCRETE FOUNDATION AND FOOTING. RE: STRUCTURAL.
- CONCRETE SLABS ON GRADE. RE: STRUCTURAL.
- THERMALLY BROKEN HOLLOW METAL FRAME. FILL FRAME WITH SPRAY FOAM INSUL. PER MANUF. RECOMMENDATIONS.
- VAPOR BARRIER OVER GRAVEL FILL.
- MIN. R-10 RIGID INSULATION OVER FULLY ADHERED WATER BARRIER TO FACE OF CONCRETE FOUNDATION, FULL HEIGHT OF WALL. PROTECT EXPOSED RIGID INSULATION WITH PREFINISHED BREAKMETAL.
- TYP. EXTERIOR WALL CONSTRUCTION (EXTERIOR TO INTERIOR) REFER TO EXTERIOR ELEVATIONS AND WALL SECTION SHEETS FOR ADDITIONAL INFORMATION:
 - VERTICAL BOARD AND BATTEN FIBER-CEMENT BOARD.
 - 1-1/2" ZIP WALL R-8 SHEATHING INSULATED PANEL.
 - STRUCTURAL 2X6 WOOD FRAMING WITH 5 1/2" MIN. R-20 UNFACED BATT INSULATION IN STUD SPACE. PROVIDE FIRE OR STRUCT. BLOCKING PER CODE. RE: STRUCTURAL FOR ADDITIONAL REQUIREMENTS.
 - VAPOR BARRIER, TAPE AND SEAL GAPS AND JOINTS AND STAPLES. (INTERIOR SIDE OF STUDS).
 - 5/8" INTERIOR TYPE-X GPBD FINISH. SEE FINISH SCHEDULE.
- PRE-ENGINEERED TIMBER OR WOOD TRUSS ROOF FRAMING. RE: STRUCTURAL.
- 4 1/2" ALUM. THERMALLY BROKEN STOREFRONT SYSTEM. PROVIDE MANUF. CONTINUOUS ALUM. SILL FLASHING END DAM SET IN CONT. BED OF SEALANT. SHIM LEVEL. REFER TO WINDOW SCHEDULE. ASPHALT SHINGLES OVER 5/8" ZIP ROOF SHEATHING.
- 1X FIBER CEMENT FASCIA BOARD, USE HARDIE SMOOTH TRIM PRIMED FOR PAINT. CUT BOARD FASCIA BOARD HEIGHT TO COVER EAVE FRAMING AND SOFFIT PANEL TRIM.
- PREFINISHED METAL GUTTER. PROFILE: SQUARE, SIZE: 6 X 6, GAUGE: 24 AND COLOR TO BE DETERMINED FROM FULL RANGE OF STANDARD COLORS.
- CASEMENT OR FIXED WINDOWS. RE: WINDOW SCHEDULE.
- FINISH BOTTOM OF EXTERIOR OVERHANGS WITH 1/4" THICK HARDIE SOFFIT PANEL SMOOTH FINISH.
- ROOF SOFFIT AT OPEN RAFTERS USE VENTED SMOOTH - PRE-PRIMED FOR PAINT FINISH. TYP. TRIM ALONG PERIMETER WITH 1X2 TRIM. LP SMART-SIDING 440 SERIES SMOOTH FINISH TRIM PRIME FOR PAINT FINISH. SPACED SHEATHING AS NEED TO SUPPORT LP SOFFIT BD. MIN. R-38 BLOWN-IN INSULATION AT TRUSS LOCATIONS. CEILING PER REFLECTED CEILING PLAN.
- FINISHED EDGE OF GPBD. PAINT FINISH.
- PREFINISHED FLASHING WITH HEMMED DRIP EDGE. APPLY SEALANT TAPE TO PROVIDE WATER TIGHT SEAL TO SHEATHING.
- CONCRETE PAVING. REF. CIVIL.
- EXPANSION JOINT WITH SEALANT.
- METAL COUNTER FLASHING WITH BEAD OF SEALANT.
- SILL PLATE SEAL: 5-1/2" 20 MIL RUBBERIZED ASPHALT MASTIC WITH BACKED FOAM SILL SEAL. SEE GEN. NOTE 9 A310.
- 24" OF SOIL REPLACEMENT WITH ENGINEERED BACKFILL AND GRAVEL DRAINAGE LAYER UNDER NEW SLAB. REFER TO GEOTECHNICAL REPORT.
- NOT USED.
- #5 X 24" DOWEL DRILLED 8" INTO EXISTING SLAB ON GRADE AT EXTERIOR DOOR AND 2' BEYOND THE LATCH SIDE OF DOOR.
- 6" THICKNESS OF SPRAY FOAM INSULATION @ PERIMETER OF TOP OF WALL.
- CONT. FILTER FABRIC. BEFORE BACKFILLING WITH TOP SOIL.
- 4" PERF. FOUNDATION DRAIN PIPE AT ADDITIONAL.
- NOT USED.
- 1-1/4" STONE VENEER WAINSCOT SET IN SCRATCH COAT AND BONDING MORTAR SET OVER DRIWALL LATH-NET DRAINAGE SYSTEM. REF: SHEET A200 FOR STONE FINISH INFORMATION.
- STONE LEDGE. SLOPE TO DRAIN.
- 24 GA. (.0239" / .607MM) PRE-FINISHED CONT. METAL FLASHING W/ TURNED UP 2" LEG ATTACHED AND SEALED TO SHEATHING. USE SHEATHING MANUF. RECOMMENDED FLEXIBLE SHEET OVER FLASHING.
- FLOOR FINISH (AND 1/2" CEMENT BOARD SUBFLOOR AT TILE LOCATIONS) OVER STRUCTURAL SUBFLOOR. REFERENCE STRUCT. AND FINISH SCHEDULE.
- SEALANT: SEE SEALANT SCHEDULE.
- GASKETER INSULATED ALUM. ACCESS DOOR. WILLIAMS BROTHER WB AL 1500 36X36 OR EQUAL. COORDINATE EXACT LOCATION WITH HVAC EQUIP.
- FLEXIBLE FLASHING. SEE GENERAL NOTE 10 ABOVE.
- DRAINAGE MAT AND METAL LATH SYSTEM MECHANICALLY FASTENED TO SHEATHING PER MFG RECOMMENDATIONS. BASIS OF DESIGN: DRIWALL LATH-NET BY KEENE BUILDING PRODUCTS KEENEBUILDING.COM. PROVIDE WEEP SCREED AND OTHER ACCESSORIES REQUIRED BY MFG. FOR COMPLETE INSTALLATION.
- 2X8 WOOD FRAMED ROOF. RE: STRUCTURAL.
- SPRAY CLOSED CELL FOAM WITH MIN. R-38 BETWEEN 2X8 FRAMING. RE: G005 FOR MATERIAL INFORMATION.
- 5/8" GPBD ATTACHED TO 2X4 FURRING ANCHORED TO BOTTOM CHORD OF TRUSS.
- PLYWOOD DECK OVER WOOD FRAMING. RE: STRUCTURAL.
- FLOOR GRILLE. CUT BOTTOM OF FLANGE AT EACH FLOOR TRUSS LOCATION, REF: MECHANICAL.
- 1/2" PLYWOOD SHEATHING.
- SOLID SURFACE WINDOW SILL W/ 3/16" RIP-BEAD SHADOW REVEAL BY CLARK-DIETRICH (OR EQUAL) RE: FINISH SCHEDULE.
- 2X4 HORIZ. FURRING AT 24" O.C. IN LIEU OF ZIP R-SHEATING. FINISH FLOORING, SEE FINISH SCHEDULE.
- 1 X WOOD TRIM. PAINT FINISH.
- 2 X 4 WOOD FRAMING AND BLOCKING FILL AIR GAPS WITH INSULATION.
- AIR GAP AT TOP OF ZIP R-SHEATHING TO ALLOW VENTILATION. 4"-0" 1" BUILT-UP RIGID BOARD INSULATION TO FORM U-SHAPE CHANNEL BETWEEN EACH TRUSS.
- SPRAY FOAM INSULATION TO SEAL GAPS.



7 TYP. WOOD CLAD COLUMN DETAIL
1 1/2" = 1'-0"

4 INT. VEST. PLAN DETAIL
1 1/2" = 1'-0"

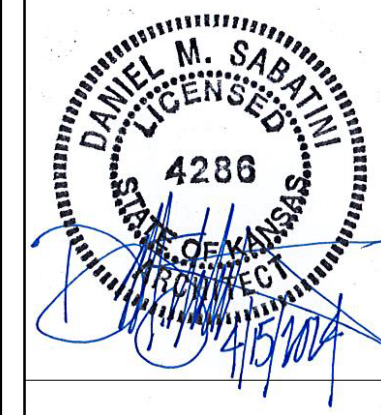
2 TYP. EXT. INSUL. HM HEAD DETAIL
3" = 1'-0"

6 TYP. COLUMN BASE PLAN DETAIL
1 1/2" = 1'-0"

3 RAISED FLOOR SECTION DETAIL ABOVE STAIR
1 1/2" = 1'-0"

1 TYP. EXT. INSUL. HM SILL DETAIL
3" = 1'-0"

5 COLUMN BASE SECTION
1 1/2" = 1'-0"



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CERTUS
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905 S. Kansas Avenue, Suite 400
Topeka, Kansas 66612
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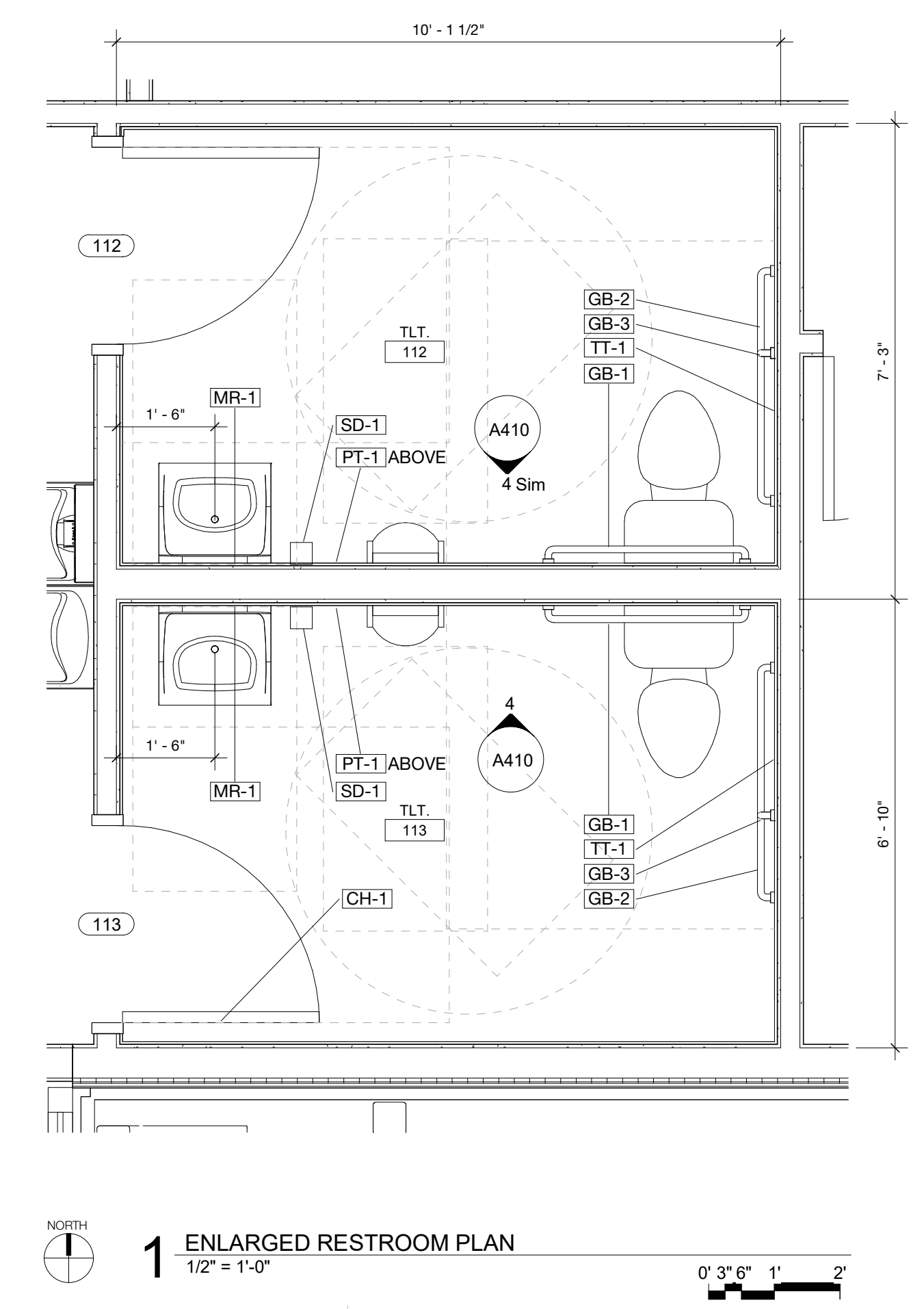
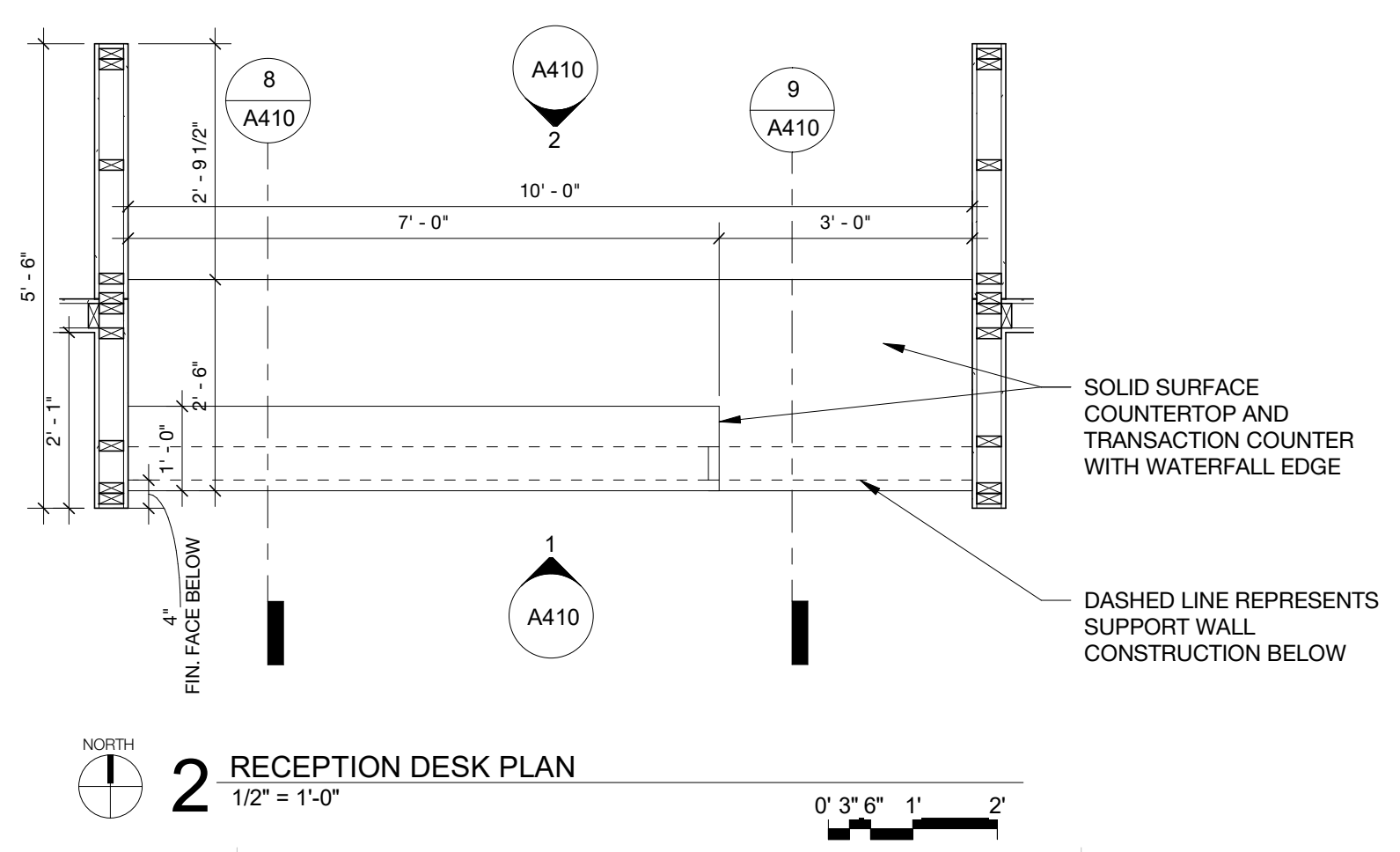
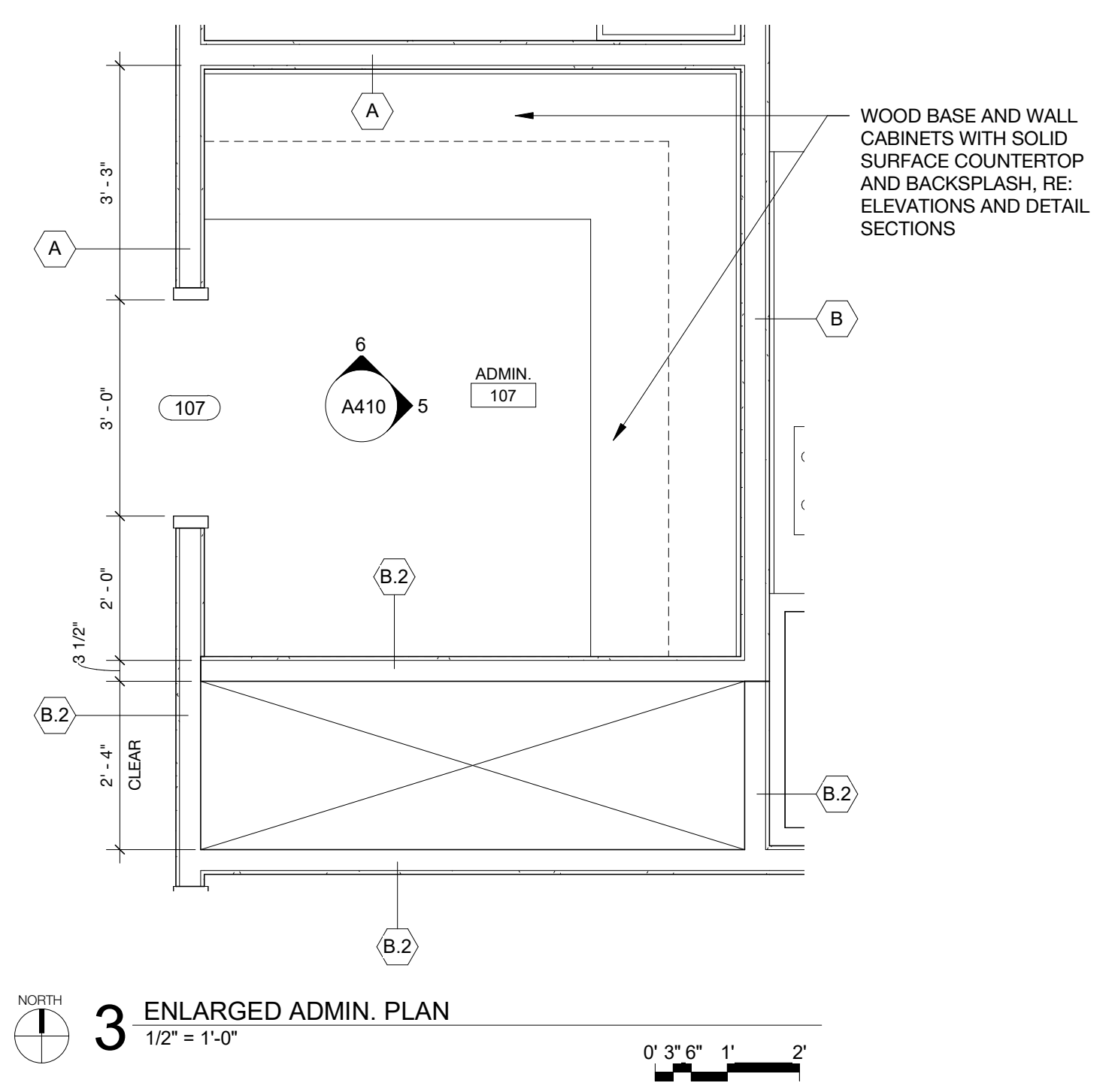


TOILET ACCESSORIES NOTES

1. TOILET ACCESSORIES TO BE FROM A SINGLE SOURCE MANUFACTURER. BASIS OF DESIGN: BOBRICK WASHROOM EQUIPMENT INC.
2. ALL ACCESSORIES TO BE STAINLESS STEEL. GRAB BARS TO BE 0.05 INCH THICK, MOUNTED WITH FLANGES AND CONCEALED FASTENERS. OUTSIDE DIAMETER: 1-1/2". TOILET ACCESSORIES TO BE STAINLESS STEEL, NO. 4 FINISH SATIN.
3. UNDERLAVATORY GUARDS BY CONTRACTOR TO INSULATE PIPE COVERING FOR EXPOSED SUPPLY AND DRAIN PIPING ASSEMBLIES TO PREVENT DIRECT CONTACT WITH BURNS FROM PIPING, AND ALLOW SERVICE ACCESS WITHOUT REMOVING COVERINGS. MATERIAL ANTIMICROBIAL, MOLDED PLASTIC, WHITE. BOD: TRUEBRO, PIPE COVER, P TRAP AND TWO VALVE PER LAVATORY. ACCESSORIES NOTED TO BE FURNISHED BY OWNER TO BE INSTALLED BY CONTRACTOR.
- 4.

MARK	DESCRIPTION	BOD MFGR	MODEL NO.	NOTES
TT-1	TOILET TISSUE DISPENSER	BOBRICK	B-2740	
GB-1	GRAB BAR	BOBRICK	B-6806X36	
GB-2	GRAB BAR	BOBRICK	B-6806X42	
GB-3	GRAB BAR	BOBRICK	B-6806X18	
MR-1	MIRROR	CUSTOM FRAMELESS		
CH-1	CLOTHING HOOK	BOBRICK	B-76717	
PT-1	PAPER TOWEL DISPENSER	OWNER PROVIDED		
SD-1	SOAP DISPENSER	OWNER PROVIDED		

GENERAL NOTES:
 1. ALL TOILET ACCESSORIES TO COMPLY WITH ADA MOUNTING HEIGHTS. REF: SHEET G001.
 2. ACCESSORIES TO BE STAINLESS STEEL FINISH, TYPICAL.
 3. BASIS OF DESIGN IDENTIFIED, EQUIVALENT SUBSTITUTIONS ACCEPTED.
 4. PROVIDE BLOCKING IN WALL FOR GRAB BARS
 5. PT-1 PAPER TOWEL DISPENSERS LOCATED IN RESTROOM AND IN ALL ROOMS THAT HAVE SINKS (BREAKROOM)
 6. CUSTOM FRAMELESS MIRROR, REFER TO ELEVATIONS ON SHEET A410 FOR DIMENSIONS.



Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsethief Rd., Marquette, KS 67464
BUILDING NUMBER 71000-27677
DATE: 9/30/2024 DRAWN BY: Author REV:

ENLARGED PLANS & DETAILS
A-015174
A400
CONSTRUCTION DOCUMENTS

GENERAL NOTES

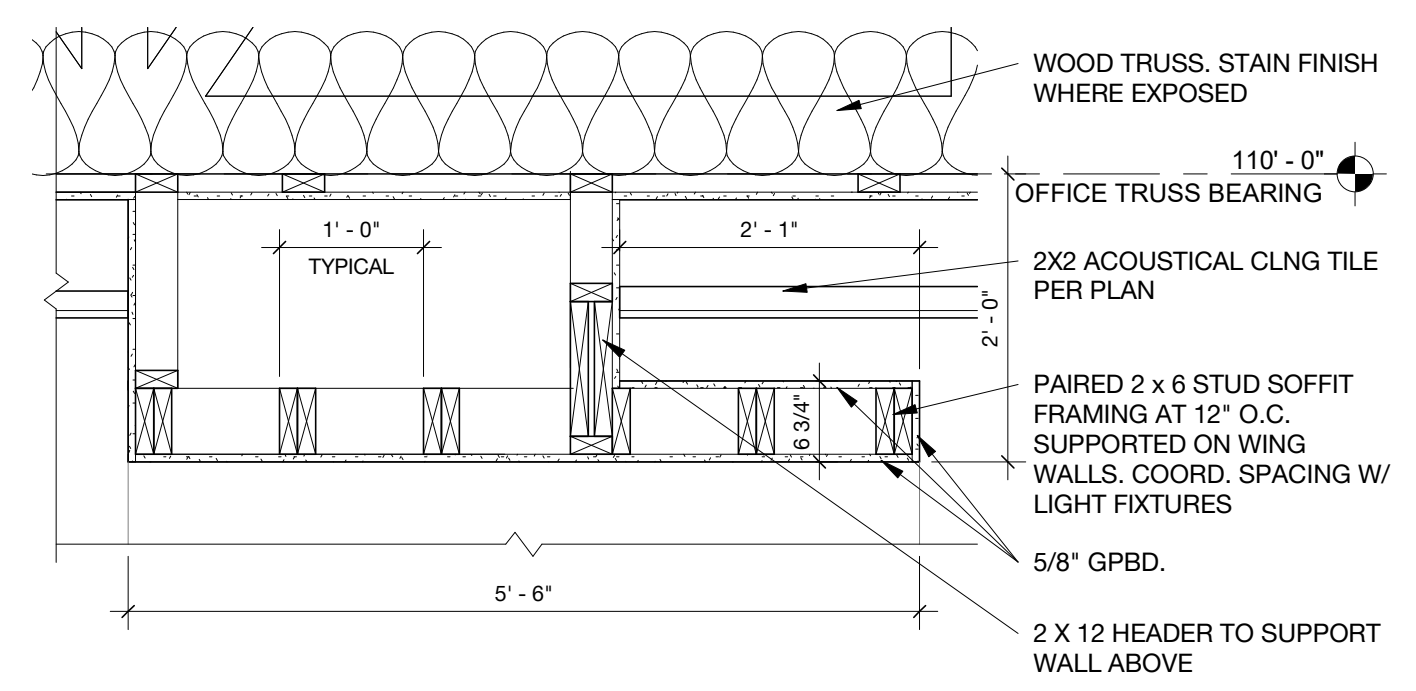
- KEYNOTES BELOW REFER TO DRAWINGS ON SHEETS A410 ONLY.
- ALL NOTES MAY NOT BE REFERENCED EACH PLAN.
- ALL ITEMS OF WORK MAY NOT BE INDIVIDUALLY NOTATED WITH CONSTRUCTION NOTE. SCOPE OF WORK INCLUDES SIMILAR ITEMS WHETHER OR NOT SPECIFICALLY INDICATED AND ARE TYPICAL, UNLESS OTHERWISE NOTED.
- PROVIDE CONCEALED WOOD BLOCKING FOR CASEWORK, PLUMBING FIXTURES AND BATH ACCESSORIES. ANCHOR TO THE FRAMING TO RESIST MOVEMENT AND SUPPORT BARIATRIC LOADS.

INT. ELEVATION NOTES

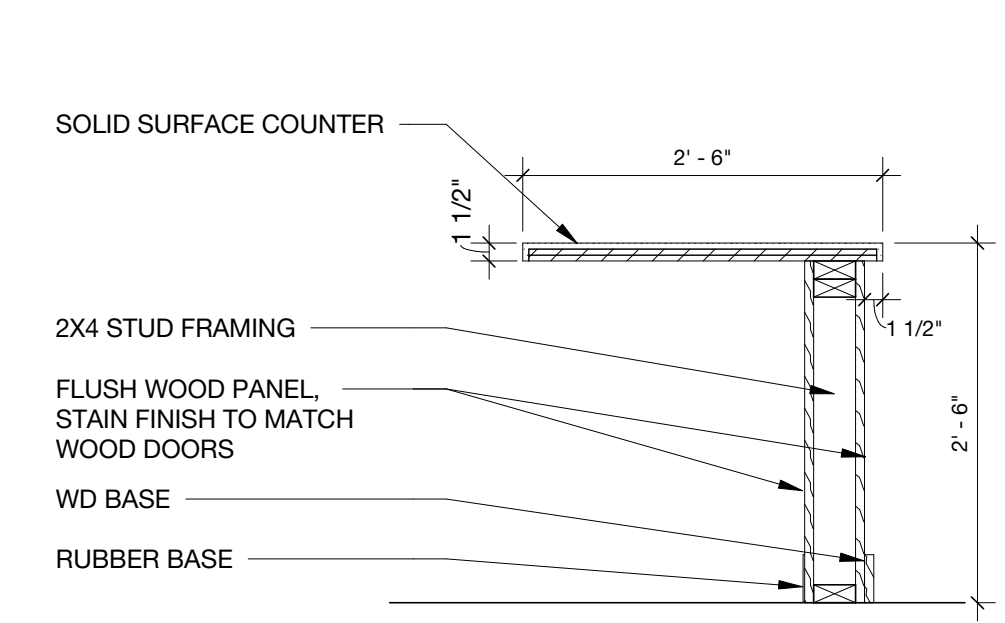
- WOOD CABINETS WITH SOLID SURFACE COUNTERTOP AND BACKPLASH. DOORS AND DRAWERS WITH WIRE PULLS AND ADJUSTABLE SHELVING PER ELEVATION.
- PLUMBING FIXTURES, RE: MEP
- APPLIANCES BY OWNER. COORDINATE DIMENSIONS WITH ALL CASEWORK.
- CUSTOM MIRROR
- TILE WAINSCOT, RE: FINISH SCHEDULE
- WOOD PANEL RECEPTION DESK WITH SOLID SURFACE COUNTER AND TRANSACTION COUNTER, RE: CASEWORK SECTIONS

CASEWORK NOTES

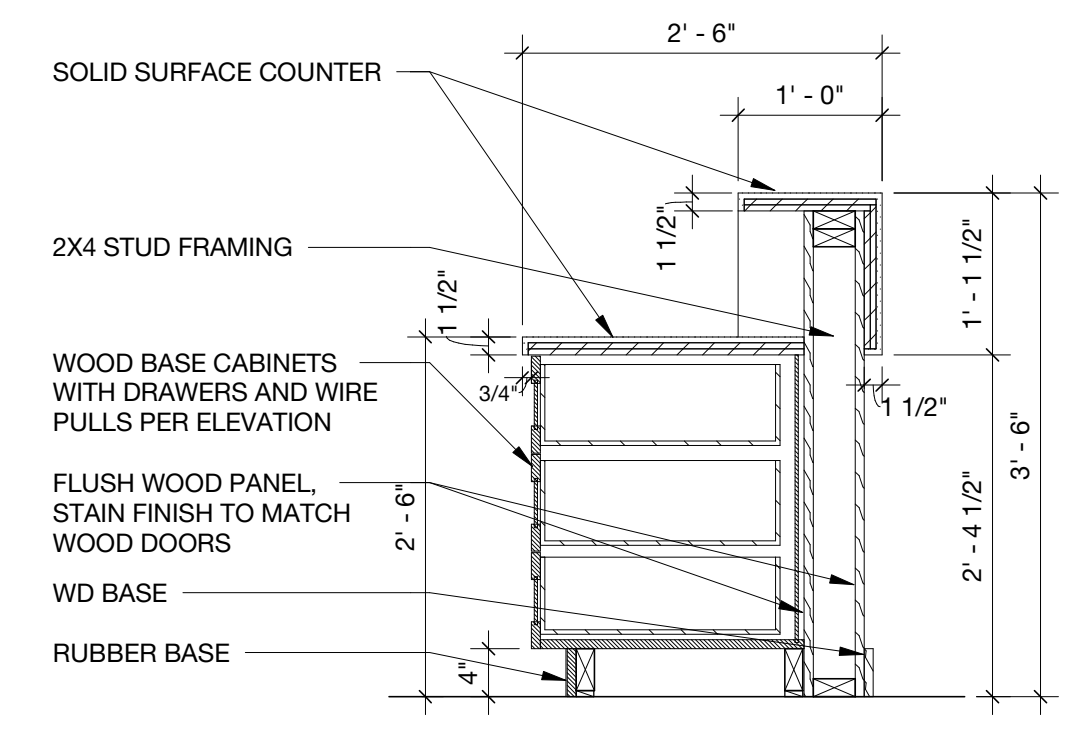
- QUALITY: COMPLY WITH THE ARCHITECTURAL WOODWORK STANDARDS.
- GRADE: CUSTOM.
- BASE & UPPER CABINETS: CUSTOM WOOD CABINETS WITH FULL OVERLAY SHAKER STYLE PANEL DOORS AND DRAWERS. STAIN FINISH TO MATCH WOOD ROOM DOORS, WITH CLEAR SEALER, SATIN FINISH.
- BUTT HINGES: SEMI-CONCEALED HINGES FOR OVERLAY DOORS, 1-3/4 INCH, FIVE KNUCKLE STEEL HINGES MADE FROM 0.095 INCH THICK METAL.
- WIRE PULLS: BACK MOUNTED, SOLID METAL, BRUSHED CHROME, 5 INCHES LONG, 2-1/2 INCHES DEEP, AND 5/16 INCH IN DIAMETER.
- DRAWER SLIDES: HEAVY-DUTY, FULL EXTENSION, SELF-CLOSING MECHANISM, ZINC-PLATED BALL BEARING SLIDES.
- SELF-ADHESIVE DOOR AND DRAWER SILENCES, CLEAR.
- COUNTERTOP: SOLID SURFACE, FROM A SINGLE SOURCE MANUFACTURER WITH 1.5" APRON AND 4" OR 6" BACKPLASH AS NOTED ON PLANS. REFER TO FINISH SCHEDULE A600 FOR SELECTION.



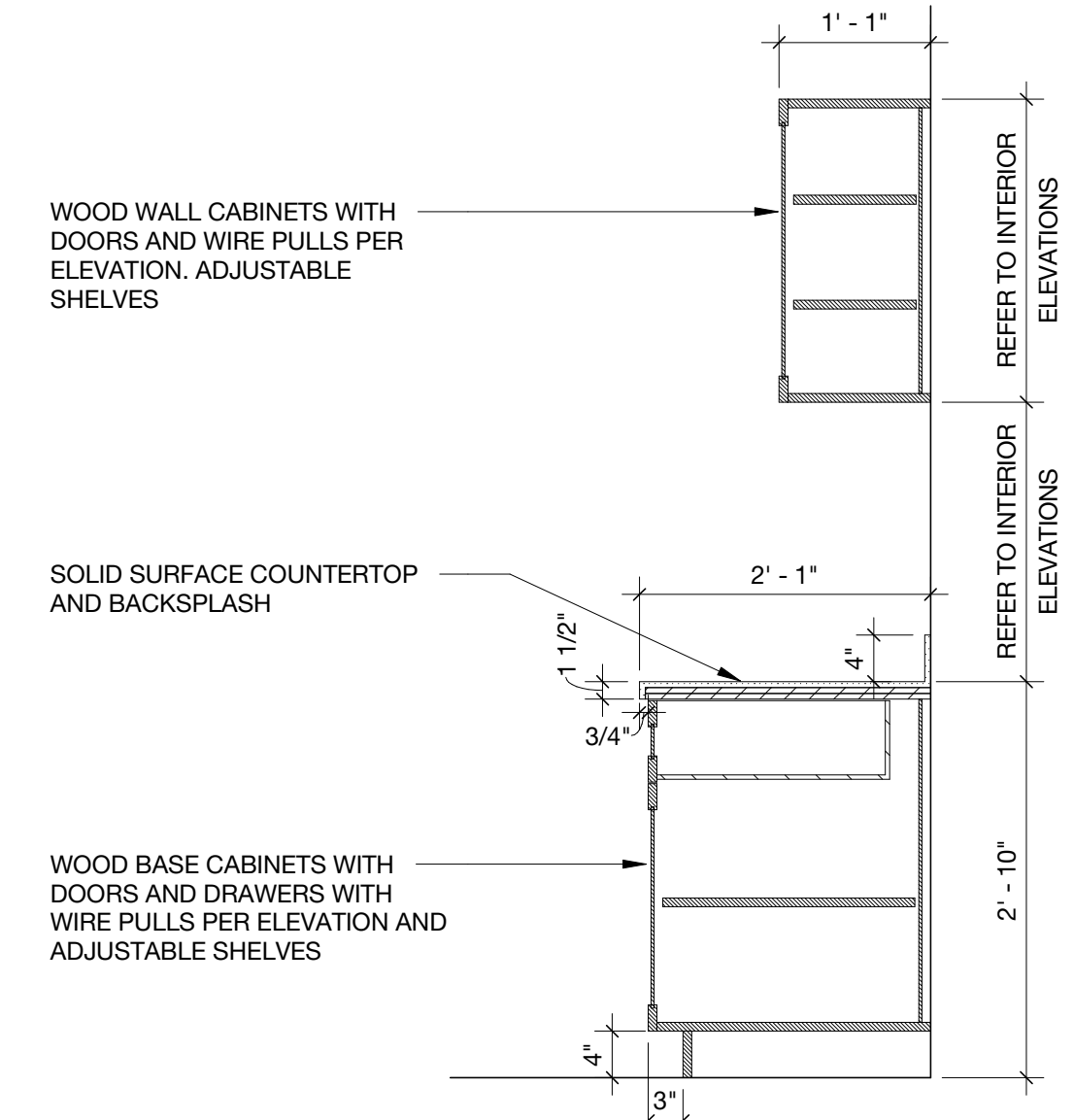
10 RECEPTION SOFFIT DETAIL
3/4" = 1'-0"



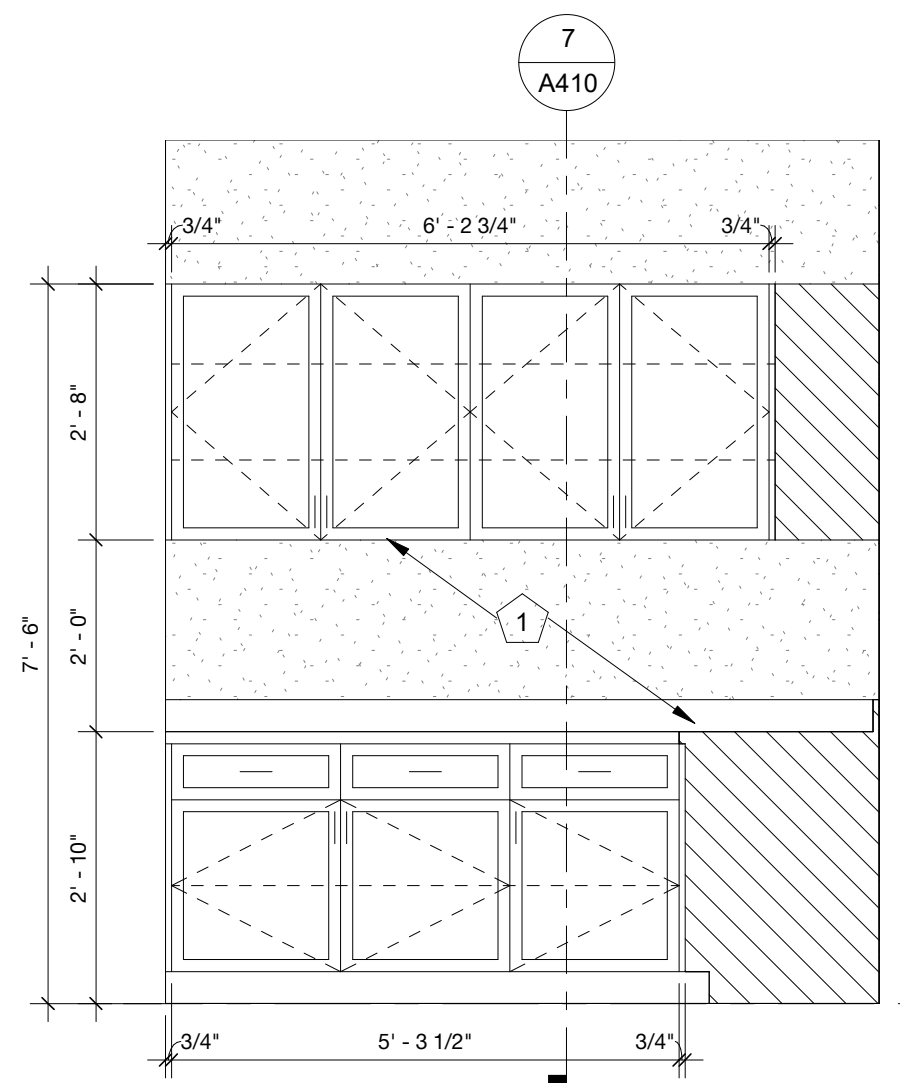
9 TYP. CASEWORK - ADA TRANSACTION COUNTER
3/4" = 1'-0"



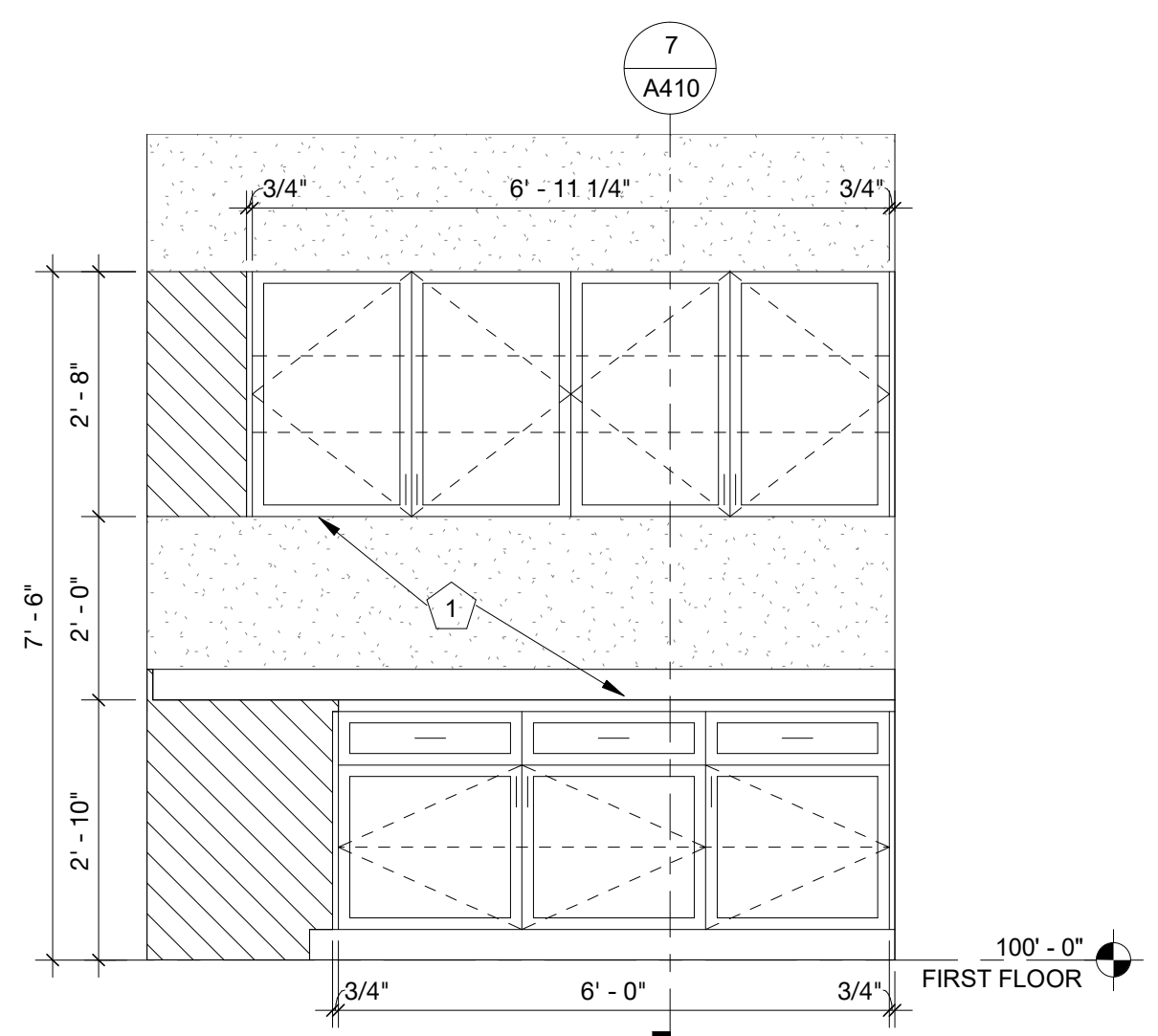
8 TYP. CASEWORK - TRANSACTION COUNTER
3/4" = 1'-0"



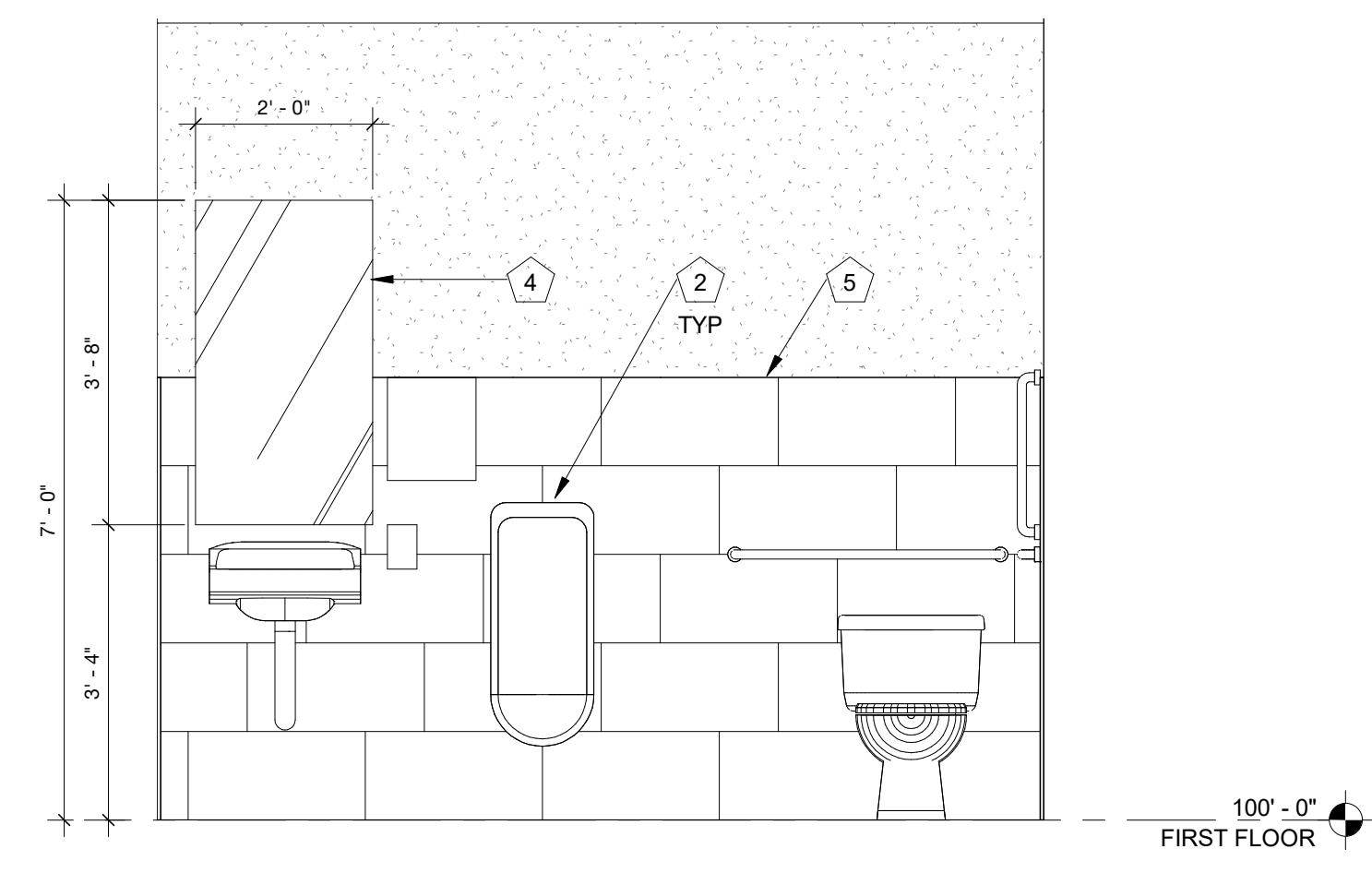
7 TYP. CASEWORK SECTION
3/4" = 1'-0"



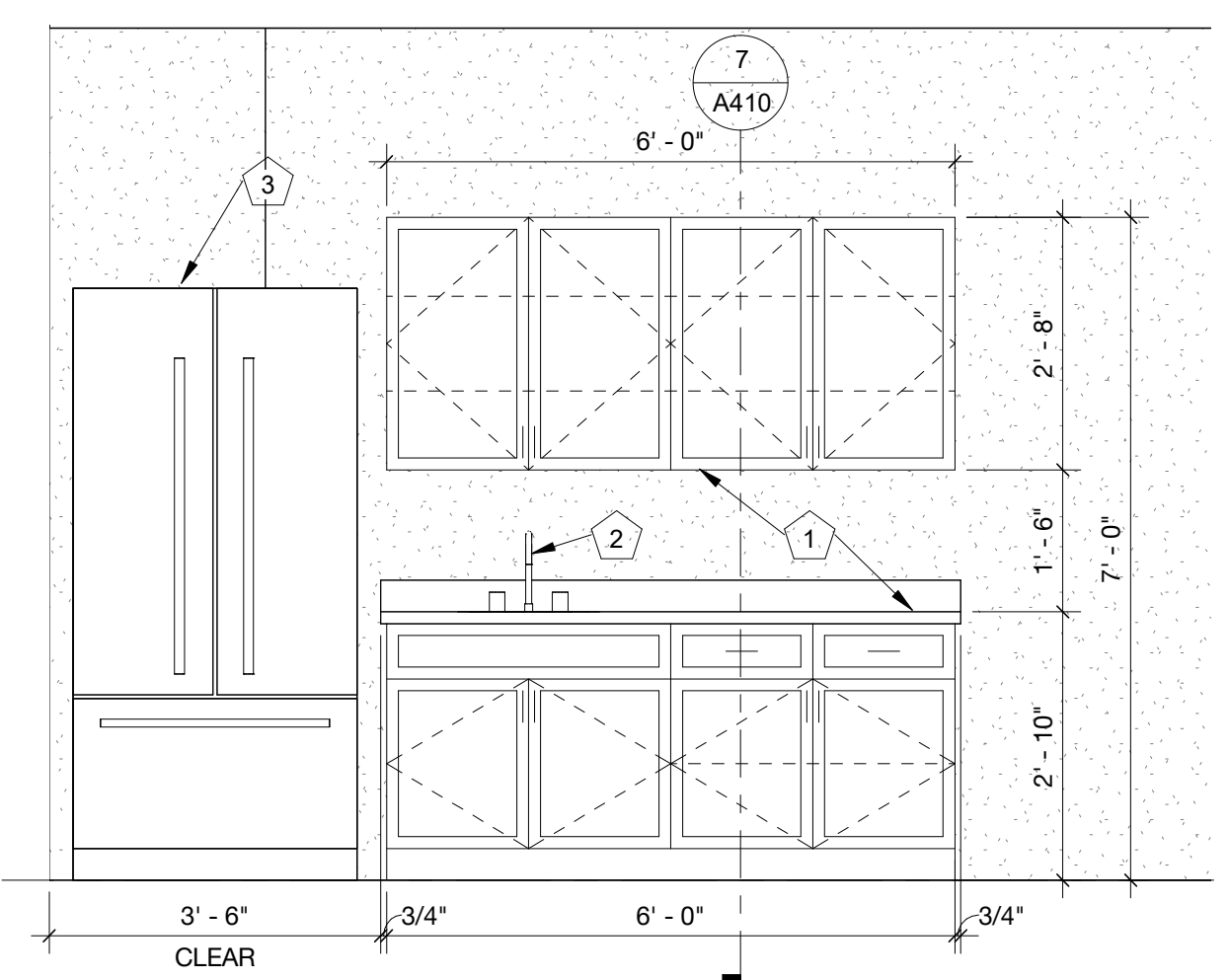
6 ADMIN - NORTH
1/2" = 1'-0"



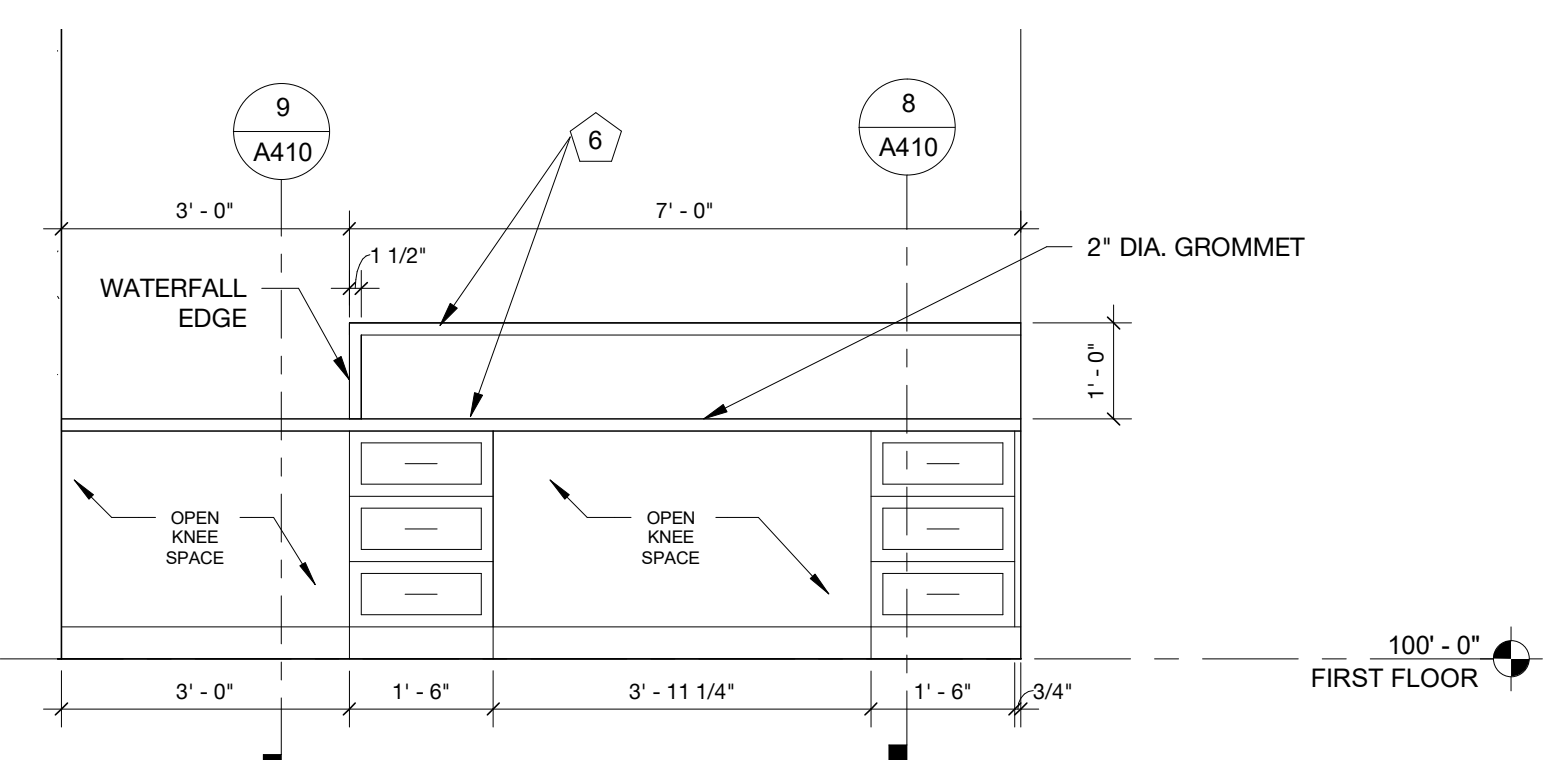
5 ADMIN - EAST
1/2" = 1'-0"



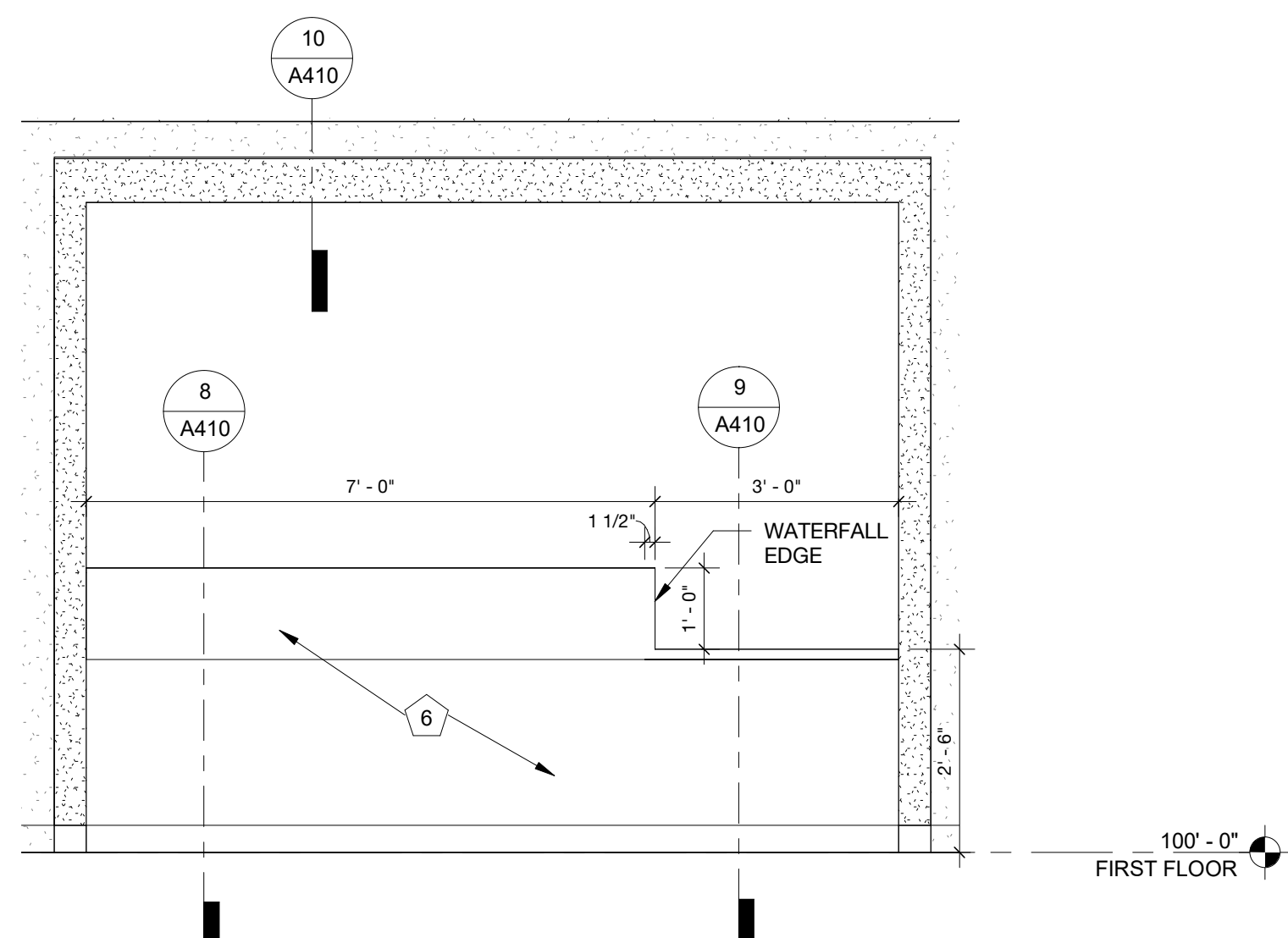
4 TYP. TOILET PLUMBING WALL ELEVATION
1/2" = 1'-0"



3 BREAKRM 107 - WEST
1/2" = 1'-0"



2 RECEPTION DESK - NORTH
1/2" = 1'-0"



1 RECEPTION DESK - SOUTH
1/2" = 1'-0"

INTERIOR WOOD DOORS:

WOOD DOORS BASIS OF DESIGN:
 MANUFACTURER: VTI INDUSTRIES. SOLID CORE. FLUSH WOOD DOORS
 SPECIES: SELECT WHITE BIRCH. CUT: PLAIN SLICED (FLAT SLICED)
 SLIP MATCH/RUNNING MATCH. CORE: PARTICLE BOARD ANSI A208.1, GRADE LD-2
 VENEER-FACED WITH TRANSPARENT FINISH. FACTORY FINISHED: CHOCOLATE STAIN CH18
 GRADE: CUSTOM (GRADE A FACE). AWI QUALITY CERTIFICATION LABEL

HOLLOW METAL DOORS & FRAMES:

BASIS OF DESIGN:
 MANUFACTURER: CECO OR CURRIES COMPANY
 OBTAIN HOLLOW-METAL WORK FROM SINGLE SOURCE
 INTERIOR FRAMES: EXTRA HEAVY DUTY, LEVEL A ACCORDING TO SDI A250.4
 UNCOATED STEEL SHEET. MINIMUM THICKNESS OF 0.053 INCH (16 GA.)
 CONSTRUCTION FULL PROFILE WELDED.
 EXTERIOR DOORS AND FRAMES: EXTRA HEAVY DUTY, LEVEL A ACCORDING TO SDI A250.4
 DOOR THICKNESS 1-3/4", FACE: METALIC-COATED STEEL SHEET, MIN. THICKNESS OF 0.053 INCH
 (16 GA.). EDGE CONSTRUCTION FULL PROFILE WELDED.
 THERMALLY RATED R VALUE OF NOT LESS THAN 2.1 DEG F X H X SF/BTU PER ASTM C 1363.
 FRAMES: 16 GAU. METALLIC COATED WITH MINIMUM A40 COATING.
 SHOP PRIMED TO PAINT
 GLAZING TO COMPLY WITH CODE REQUIREMENTS FOR SAFETY GLAZING.

DOOR HARDWARE SCHEDULE

THE HARDWARE SETS LISTED BELOW REPRESENT THE DESIGN INTENT AND DIRECTION OF THE OWNER AND ARCHITECT. THEY ARE A GUIDELINE AND THE DOOR HARDWARE SUPPLIER SHALL PROVIDE A SUBMITTAL THAT PROVIDES A COMPREHENSIVE SCHEDULE TO PROVIDE A COMPLETE INSTALLATION. BASIS OF DESIGN INCLUDES SCHLAGE, LCN AND IVES MANUFACTURERS. SUBSTITUTIONS OF EQUAL QUALITY CAN BE SUBMITTED FOR REVIEW. DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT WITH CORRECTIONS MADE PRIOR TO THE BIDDING SUBMITTAL. ALL DOOR HARDWARE SHALL COMPLY WITH ADA REQUIREMENTS.

THE CONTRACTOR IS RESPONSIBLE TO SET UP A HARDWARE REVIEW AND KEYING MEETING WITH THE OWNERS REPRESENTATIVE & OWNERS END USER TO REVIEW THE LOCKING AND KEYING REQUIREMENTS (INCLUDING KEY ACCESS FOR RENTALS IN CERTAIN ROOMS) FOR EACH DOOR BEFORE ANY DOOR HARDWARE HAS BEEN ORDERED.

HARDWARE SET: 01
DOOR NUMBER: 101.1

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	112XY EPT	628	IVE
1	EA POWER TRANSFER	EPT10 CON	689	VON
1	EA ELEC PANIC HARDWARE	HD-LX-RX-QEL-35A-NL-OP-388-CON 24 VDC	626	VON
1	EA RIM CYLINDER	20-057 ICX	626	SCH
1	EA FSIC CORE	23-030	626	SCH
1	EA 90 DEG OFFSET PULL	8190HD 12" O	630	IVE
1	EA SURF. AUTO OPERATOR	9542 MS AS REQ (120/240 VAC)	ANCLR	LCN
1	EA ACTUATOR, TOUCHLESS (EXTERIOR)	8310-810S	630	LCN
1	EA ACTUATOR, TOUCHLESS (INTERIOR JAMB MOUNT)	8310-813J	BLK	LCN
1	EA WEATHERSTRIPPING	BY DOOR AND FRAME MANUFACTURER		
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	655A-223	A	ZER
2	EA WIRE HARNESS	CON X LENGTH REQ'D		SCH
1	EA MULTITECH READER	MT11 12 VDC	BLK	SCE
1	EA DOOR CONTACT	679-05HM	BLK	SCE
1	EA POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ACCESS VIA VALID CARD READ. PANICS MAY BE DOGGED (MADE PUSH/PULL) VIA HEX KEY. ACTUATORS ONLY OPERABLE WHEN DOOR IS DOGGED OR AFTER VALID CARD READ. ALWAYS FREE EGRESS.

HARDWARE SET: 02
DOOR NUMBER: 101.2

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	112XY	628	IVE
1	EA PUSH/PULL BAR	9190EZH2D-12"-NO	630-316	IVE
1	EA SURF. AUTO OPERATOR	9542 MS AS REQ (120/240 VAC)	ANCLR	LCN
2	EA ACTUATOR, TOUCHLESS	8310-813J	BLK	LCN
1	EA WEATHERSTRIPPING	BY DOOR AND FRAME MANUFACTURER		

HARDWARE SET: 03
DOOR NUMBER: 102

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA PANIC HARDWARE	98-L-NL-06	630	VON
1	EA RIM CYLINDER	20-057 ICX	626	SCH
1	EA FSIC CORE	23-030	626	SCH
1	EA SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA RAIN DRIP	142AA	AA	ZER
1	SET GASKETING	429AA-S	AA	ZER
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	655A-223	A	ZER
1	EA DOOR CONTACT	679-05HM	BLK	SCE

HARDWARE SET: 04
DOOR NUMBER: 105

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA ENTRANCE LOCK	ND53RD RHO	626	SCH
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE

HARDWARE SET: 05
DOOR NUMBER: 106

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE

HARDWARE SET: 06
DOOR NUMBER: 104

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
2	EA MANUAL FLUSH BOLT	FB458	626	IVE
1	EA DUST PROOF STRIKE	DP1/DP2	626	IVE
1	EA CLASSROOM LOCK	ND70RD RHO	626	SCH
1	EA OH STOP	90S	630	GLY
1	EA WALL STOP	WS406/407CVX	630	IVE
2	EA SILENCER	SR64	GRY	IVE

HARDWARE SET: 08
DOOR NUMBER: 1C2.1

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA CLASSROOM LOCK	ND70RD RHO	626	SCH
1	EA SURFACE CLOSER	1450 RW/PA FC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE

HARDWARE SET: 09
DOOR NUMBER: 108.2

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA LOCK GUARD	LG10	630	IVE
1	EA SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA RAIN DRIP	142AA	AA	ZER
1	SET GASKETING	429AA-S	AA	ZER
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	655A-223	A	ZER
1	EA DOOR CONTACT	679-05HM	BLK	SCE

HARDWARE SET: 09A
DOOR NUMBER: 1C1

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA ELECTRIC STRIKE	6211 FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA LOCK GUARD	LG14	630	IVE
1	EA SURFACE CLOSER	4050A SCUSH	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA RAIN DRIP	142AA	AA	ZER
1	SET GASKETING	429AA-S	AA	ZER
1	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	655A-223	A	ZER
1	EA WIRE HARNESS	CON X LENGTH REQ'D		SCH
1	EA MULTITECH READER	MT11 12 VDC	BLK	SCE
1	EA DOOR CONTACT	679-05HM	BLK	SCE
1	EA POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

HARDWARE SET: 10
DOOR NUMBER: 112

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA PRIVACY LOCK W/ OUTSIDE INDICATOR	L9040 06A 09-544 OS-OCC	626	SCH
1	EA SURFACE CLOSER	1450 RW/PA FC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE

HARDWARE SET: 11
DOOR NUMBER: B01

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
2	EA POWER TRANSFER	EPT10 CON	689	VON
1	EA REMOVABLE MULLION	KR495A	689	VON
1	EA ELEC PANIC HARDWARE	HD-RX-QEL-98-NL-CON 24 VDC	630	VON
1	EA ELEC PANIC HARDWARE	RX-98-EO-CON	630	VON
1	EA MORTISE CYLINDER	20-001	626	SCH
1	EA RIM CYLINDER	20-057 ICX	626	SCH
1	EA FSIC CORE	23-030	626	SCH
2	EA SURFACE CLOSER	4050A SCUSH	689	LCN
2	EA KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA RAIN DRIP	142AA	AA	ZER
1	SET GASKETING	429AA-S	AA	ZER
1	EA MULLION SEAL	8780NBK PSA	BK	ZER
2	EA DOOR SWEEP	39A	A	ZER
1	EA THRESHOLD	655A-223	A	ZER
4	EA WIRE HARNESS	CON X LENGTH REQ'D		SCH
1	EA MULTITECH READER	MT11 12 VDC	BLK	SCE
2	EA DOOR CONTACT	679-05HM	BLK	SCE
1	EA POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ACCESS VIA VALID CARD READ. ALWAYS FREE EGRESS.

HARDWARE SET: 12
DOOR NUMBER: 108.1

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA PASSAGE SET	ND10S RHO	626	SCH
1	EA SURFACE CLOSER	1450 RW/PA FC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE

DOOR SCHEDULE													
ROOM		DOOR				FRAME			HARDWARE SET		COMMENTS		
NO.	NAME	TYPE	HEIGHT	WIDTH	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	FIRE RATING	HARDWARE SET	COMMENTS	
BASEMENT													
B01	BASEMENT	3	7' - 0"	6' - 0"	HM-I	P	A	HM-T	P		11		
B02	EQUIP.	1	7' - 0"	3' - 0"	HM	P	A	HM	P	45 MIN.	15		
FIRST FLOOR													
1C1	HALL	1	7' - 0"	3' - 0"	HM-I	P	A	HM-T	P		09A		
1C2.1	HALL	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		08		
1C2.2	HALL	1	7' - 0"	3' - 0"	HM-I	P	A	HM-T	P		09A		
101.1	VESTIBULE	2	7' - 0"	3' - 0"	AL		EE	AL			01		
101.2	VESTIBULE	2	7' - 0"	3' - 0"	AL		CC	AL			02		
102	VISITOR INFORMATION	1	7' - 0"	3' - 0"	HM-I	P	A	HM-T	P		03		
103	RECEPT.	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		14		
104	OFFICE	3	7' - 0"	5' - 0"	WD	ST	A	HM	P		06		
105	OFFICE	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		04		
106	JAN	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		05		
107	ADMIN.	---	7' - 0"	3' - 0"	---	---	A	HM	P		---		
108.1	BREAKRM	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		12		
108.2	BREAKRM	1	7' - 0"	3' - 0"	HM-I	P	A	HM-T	P		09		
109	OFFICE	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		04		
109A	OFFICE	3	7' - 0"	5' - 0"	WD	ST	A	HM	P		06		
110	OFFICE	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		04		
110A	OFFICE	3	7' - 0"	5' - 0"	WD	ST	A	HM	P		06		
111	OFFICE	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		04		
111A	OFFICE	3	7' - 0"	5' - 0"	WD	ST	A	HM	P		06		
112	TLT.	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		10		
113	TLT.	1	7' - 0"	3' - 0"	WD	ST	A	HM	P		10		

DOOR AND FRAME SCHEDULE NOTES AND LEGEND

GLAZING TYPES:	ABBREVIATIONS:	GENERAL NOTES:
MG-1: CLEAR MONOLITHIC IG-1: LOW-E, INSULATING IG-2: LOW-E, INSULATING SPANDREL	WD. WOOD AL. ALUMINUM ST. STAIN (WOOD) HM. HOLLOW METAL HM-T HOLLOW METAL, THERMAL BREAK HM-I HOLLOW METAL, INSULATED GL. GLASS P. PAINTED ANOD. ANODIZED CLR. CLEAR LAM. LAMINATED INSUL. INSULATED	1. INTERIOR DOORS TO BE SOLID WOOD FLUSH TYPE WITH STAIN GRADE WOOD VENEER. 2. EXTERIOR HOLLOW METAL TO BE GALVANIZED, DOORS TO BE INSULATED AND FRAMES TO BE THERMALLY BROKEN. 3. SEE SHEET A501 FOR ALUMINUM STOREFRONT FRAMES. 4. FIELD VERIFY JAMB DEPTH OF FRAMES TO BE FULL DEPTH OF THE WALL. 5. REFERENCE THE DOOR HARDWARE SCHEDULE FOR INDIVIDUAL DOOR REQUIREMENTS. 6. ALL DOOR HARDWARE AND ACCESSORIES TO BE ADA COMPLIANT INCLUDING MOUNTING HEIGHTS, DOOR OPENING FORCE, THRESHOLD HEIGHTS, ETC.

COMMENTS:
 1. PROVIDE ADA DOOR OPERATORS ON ONE LEAF OF BOTH ENTRY DOORS. SET EXTERIOR AND INTERIOR DOORS IN OPERATION SEQUENCE. PROVIDE ADDITIONAL INTERIOR VESTIBULE ACTIVATION SWITCH PER CODE. EXTERIOR ACTIVATION SWITCH TO BE ON EXTERIOR COLUMN. ALL MOUNTED PER ADA GUIDELINES.

HARDWARE SET: 14
DOOR NUMBER: 103

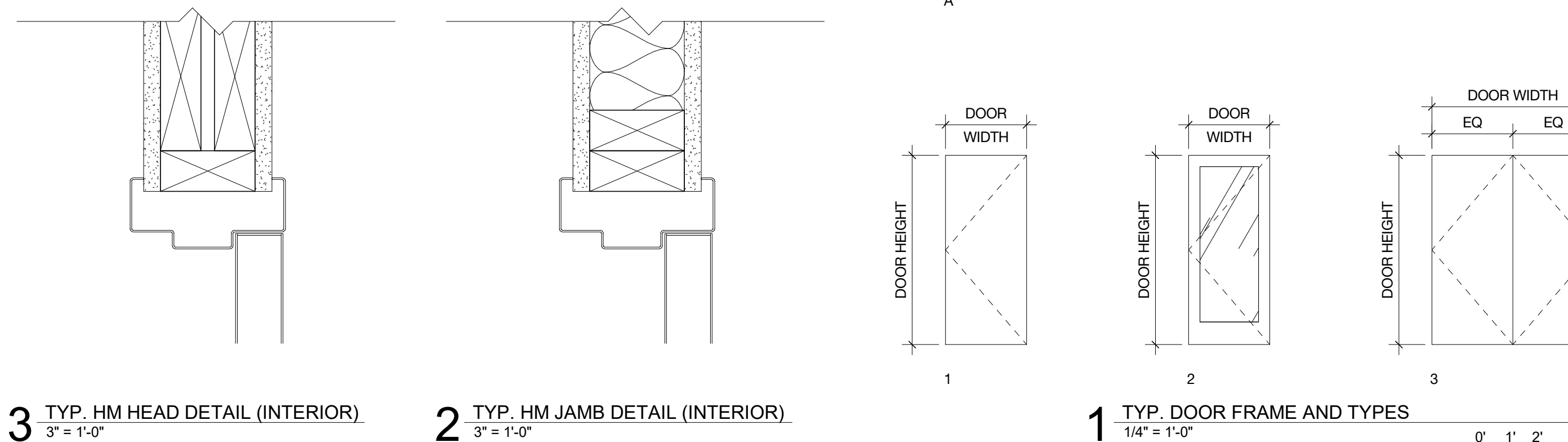
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA ELECTRIC STRIKE	6211 FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA SURFACE CLOSER	1450 RW/PA FC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE
1	EA WIRE HARNESS	CON X LENGTH REQ'D		SCH
1	EA MULTITECH READER	MT11 12 VDC	BLK	SCE
1	EA DOOR CONTACT	679-05HM	BLK	SCE
1	EA POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

HARDWARE SET: 15
DOOR NUMBER: B02

EACH TO HAVE:

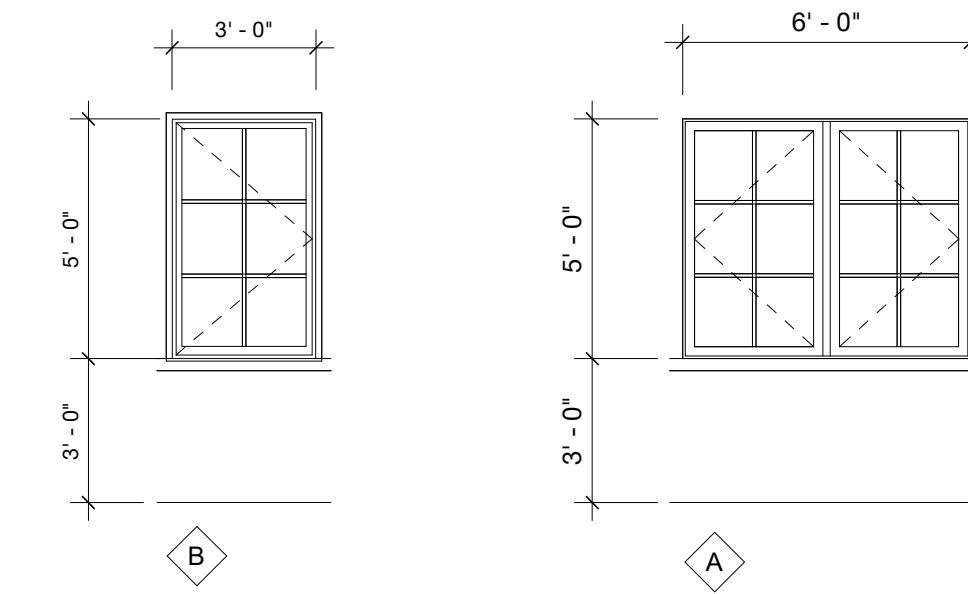
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA STOREROOM LOCK	ND80RD RHO	626	SCH
1	EA SURFACE CLOSER	1450 RW/PA FC	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406/407CVX	630	IVE
3	EA SILENCER	SR64	GRY	IVE
1	EA GASKETING	488S-BK 17' PSA	ZER	



3 TYP. HM HEAD DETAIL (INTERIOR) 3" = 1'-0"
 2 TYP. HM

WOOD CLAD WINDOW NOTES

- WOOD CLAD WINDOWS BASIS OF DESIGN: JELD WEN. EXTERIOR COLOR: BLACK. INTERIOR: STAINED WOOD, HARDWARE BLACK TO MATCH EXTERIOR
- GRILLES BETWEEN GLASS AS SHOWN. COLOR: BLACK TO MATCH EXTERIOR FINISH.



WOOD CLAD WINDOW FRAME SCHEDULE					
TYPE	WINDOW FRAME R.O.		OPERATION	QTY	NOTES
	WIDTH	HEIGHT			
A	6' - 0"	5' - 0"	CASEMENT	3	1, 3
B	3' - 0"	5' - 0"	CASEMENT	12	1, 3

STOREFRONT NOTES

- ALUMINUM STOREFRONT & ALUMINUM FRAMED ENTRANCES BASIS OF DESIGN: MANKO. COLOR: BLACK
- DELEGATED DESIGN SUBMITAL: FOR ALUMINUM-FRAMED STOREFRONT/ENTRANCES PROVIDE PRODUCTS COMPLIANT WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA PROVIDED BY PROJECT STRUCTURAL ENGINEER. PROVIDE STOREFRONT MANUFACTURERS ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
- PROVIDE ENERGY PERFORMANCE CERTIFICATES COMPLIANT WITH NFRC CERTIFIED ENERGY PERFORMANCE VALUES.

2 WOOD CLAD WINDOW TYPES
1/4" = 1'-0"

GLASS NOTES

MG-1: CLEAR MONOLITHIC :
CLEAR HEAT-STRENGTHENED FLOAT GLASS
MINIMUM THICKNESS: 1/4" (6MM).
PROVIDE SAFETY GLAZING AT LOCATIONS REQUIRED BY IBC 2018 CHAPTER 24.

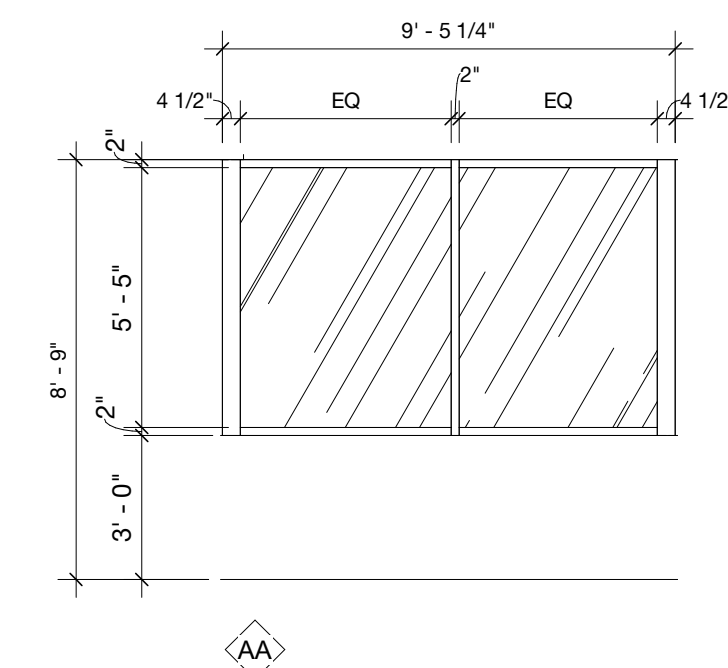
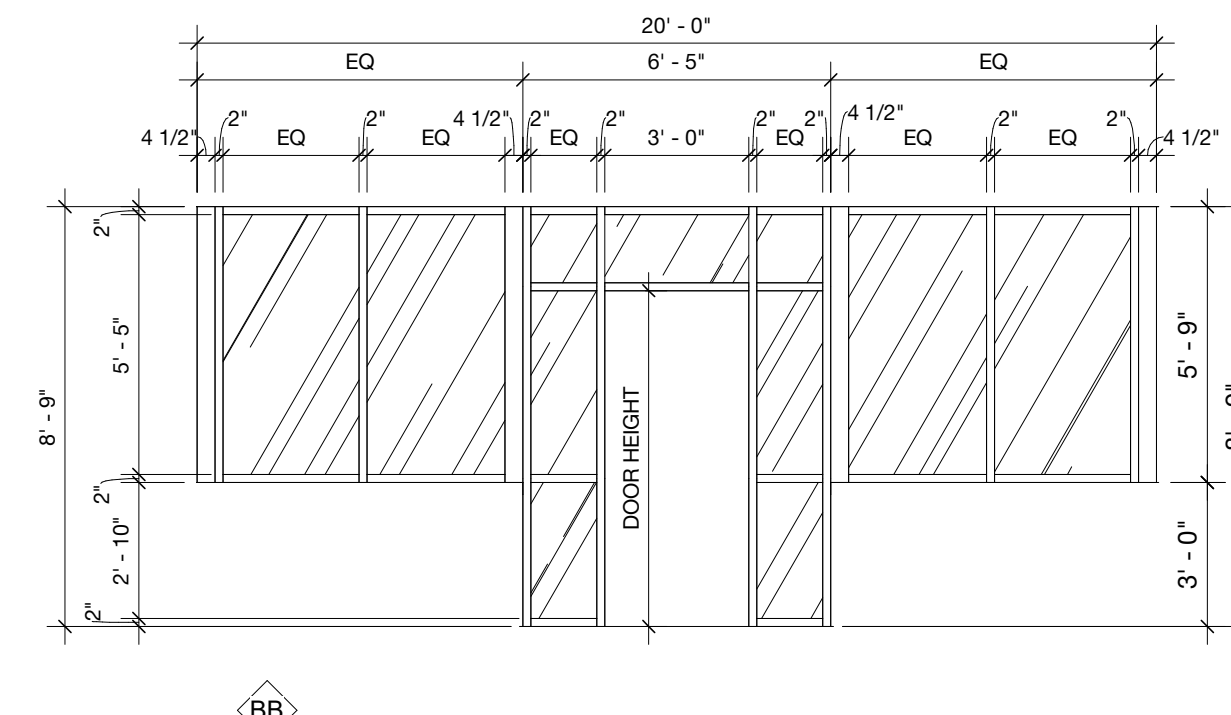
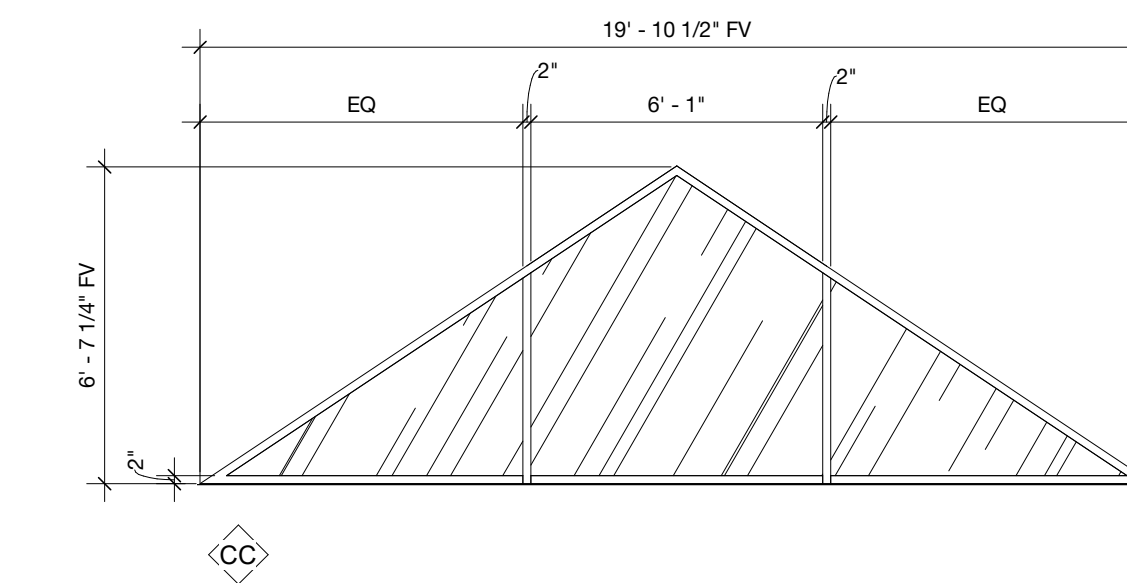
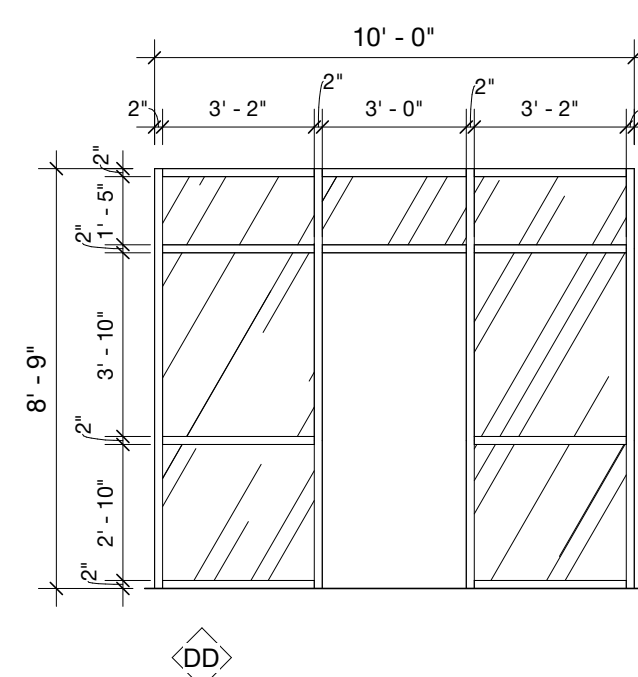
IG-1: LOW-E, INSULATING
LOW-E COATED, INSULATING GLASS
B.O.D. VITRO ARCHITECTURAL GLASS, SOLARBAN 60, LOW -E TYPICAL FOR ALL EXTERIOR GLAZING.

OVERALL THICKNESS: 1 INCH (25 MM)
MINIMUM THICKNESS OF EACH GLASS LITE: 6MM
OUTDOOR LITE: HEAT-STRENGTHENED FLOAT GLASS, OR FULLY TEMPERED SAFTEY GLAZING AT LOCATIONS AS REQUIRED BY IBC 2018 CHAPETER 24.

INDOOR LITE: HEAT-STRENGTHENED OR FULLY TEMPERED SAFETY GLAZING AT LOCATIONS AS REQUIRED BY IBC 2018, CHAPTER 24.
LOW-E COATING: SPUTTERED ON SECOND SURFACE.

INSULATING GLASS UNITS : FACTORY-ASSEMBLED UNITS CONSISTING OF SEALED LITES SPARATED BY DEHYDRATED INTERSPACE, QUALIFIED ACCORDING TO ASTM E 2190. SEALING SYSTEM: DUAL SEAL WITH MANUFACTURERS STANDARD PRIMARY AND SECONDARY SEALANTS. PERIMETER SPACE: THERMALLY BROKEN ALUMINUM, NON METALLIC LAMINATE OR NONMETALLIC TUBE. DESICCANT: MOLECULAR SIEVE OR SILICA GEL, OR A BLEND OF BOTH.

GLAZING SEALANTS: MUST BE COMPATIBLE WITH ONE ANOTHER AND WITH OTHER MATERIALS THEY CONTACT INCLUDING GLASS PRODUCTS, SEALS OF INSULATING GLASS UNITS AND GLAZING CHANNEL SUBSTRATES.

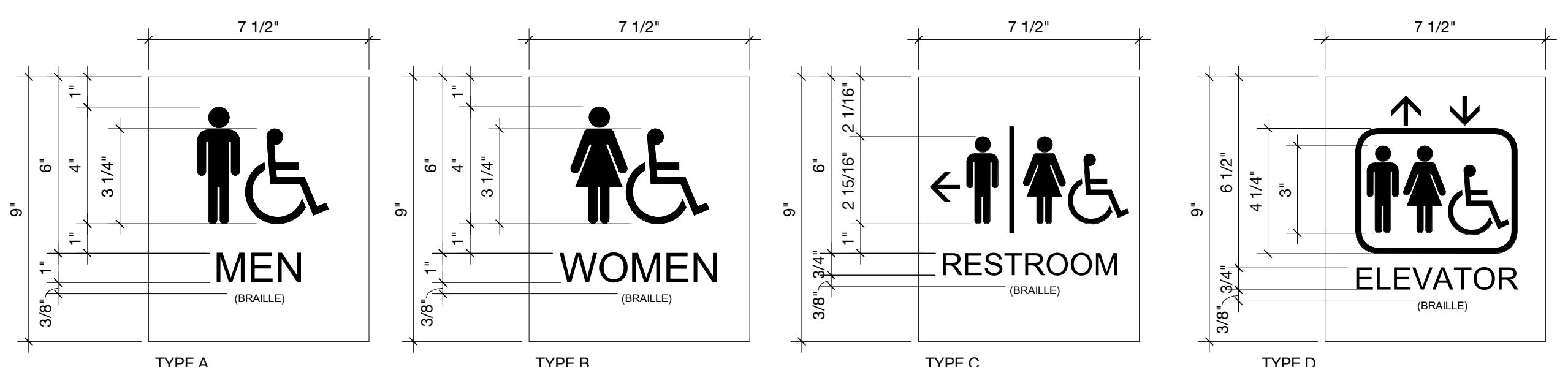


ALUMINUM WINDOW FRAME TYPES
1/4" = 1'-0"

SIGNAGE SCHEDULE										
QTY	SIGN TYPE	Level	NAME	NO.	SIGN TEXT/GRAPHIC	DESCRIPTION	MATERIAL	MOUNTING LOCATION	MOUNTING TYPE	NOTES
BASEMENT										
		BASEMENT	ELEV.	E01						4
FIRST FLOOR										
1	C	FIRST FLOOR	TLT.	112	RESTROOM (MAN+WOMAN/ADA)	TACTILE GRAPHICS, TEXT & BRAILLE	PVC PANEL		TAPE	
1	C	FIRST FLOOR	TLT.	113	RESTROOM (MAN+WOMAN/ADA)	TACTILE GRAPHICS, TEXT & BRAILLE	PVC PANEL		TAPE	
2	D	FIRST FLOOR	ELEV.	E02	ELEVATOR (MAN+WOMAN+ADA IN BOX W/ UP-DOWN ARROWS)	TACTILE GRAPHICS, TEXT & BRAILLE	PVC PANEL		TAPE	4

GENERAL SIGNAGE NOTES:
 PROVIDE ADA COMPLIANT SIGNAGE AT ALL RESTROOMS, INCLUDING RAISED LETTERS, RAISED GRAPHICS AND BRAILLE.
 HIGH IMPACT ACRYLIC/PVC PANEL WITH TACTILE GRAPHICS AND TEXT WITH GRADE 2 BRAILLE RAISED, BACK PAINTED WITH CONTRASTING COLORED LETTERS AND GRAPHICS. SEMI-MATTE FINISH. COMPLIANT WITH ADA STANDARDS. 0.25 INCH PANEL DEPTH WITH STRAIGHT, EASED EDGE.

SCHEDULE NOTES:
 1. PROVIDE A SIGN AT EACH LEVEL.



1 RESTROOM & ELEVATOR SIGNAGE
 3\"/>

PAINT NOTES

GENERAL NOTES:
 EXTRA MATERIALS: LEAVE REMAINING PAINT FOR OWNER, PACKAGED FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. NO EXTRA MATERIALS ARE REQUIRED.
 PREPARATION: COMPLY WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS IN MPI MANUAL.
 PAINTING MEP, COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY WORK. PAINT THE FOLLOWING WORK WHERE EXPOSED TO VIEW: EQUIPMENT INCLUDING PANEL BOARDS, AND SWITCH GEAR, UNINSULATED METAL PIPING, UNINSULATED PLASTIC PIPING, PIPE HANGERS AND SUPPORTS, METAL CONDUIT, PLASTIC CONDUIT, TANKS THAT DO NOT HAVE FACTORY-APPLIED FINAL FINISHES.

- INTERIOR PAINT, BASIS OF DESIGN:
- CONCRETE SUBSTRATES, NON-TRAFFIC SURFACES.
 - PRIMER: 1 COAT SHERWIN WILLIAMS LOXON CONCRETE AND MASONRY PRIMER/SEALER APPLIED @ 1.5-1.8 MILS DFT
 - FINISH: 2 COATS SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX EG-SHEL APPLIED @ 1.5-1.8 MILS DFT
 - STEEL SUBSTRATES:
 - PRIMER: 1 COAT SHERWIN WILLIAMS PRO-CRYL UNIVERSAL PRIMER APPLIED @2.0-4.0 MILS DFT
 - FINISH: 2 COATS SHERWIN WILLIAMS SOLO 100% INTERIOR/EXTERIOR SEMIGLOSS APPLIED @ 2.0-4.0 MILS DFT
 - HOLLOW METAL FRAMES (PRE-PRIMED):
 - FINISH: 2 COATS SHERWIN WILLIAMS PRO INDUSTRIAL HIGH PERFORMANCE ACRYLIC SEMI-GLOSS COATING.
 - CMU SUBSTRATES:
 - PRIMER: 1 COAT PPG SPEEDHIDE INTERIOR LATEX BLOCK FILLER, 6-15 APPLIED @ 7.0-10.0 MILS DFT
 - FINISH: 2 COATS PPG SPEEDHIDE INTERIOR ZERO VOC SATIN LATEX, 6-4410X1 APPLIED @ 1.5-1.8 MILS DFT
 - WOOD SUBSTRATES:
 - PRIMER: 1 COAT SHERWIN WILLIAMS MULTI PURPOSE LATEX PRIMER APPLIED @ 1.6-1.8 MILS DFT
 - FINISH: 2 COATS SHERWIN WILLIAMS SOLO 100% INTERIOR/EXTERIOR SEMI-GLOSS APPLIED @ 2.0-4.0 MILS DFT.
 - GYPSUM BOARD:
 - PRIMER: 1 COAT SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX PRIMER APPLIED @ 1.0-1.2 MILS DFT
 - FINISH: 2 COATS SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX EG-SHEL, FLAT OR SEMI-GLOSS BASED ON SCHEDULE APPLIED @ 1.3-1.6 MILS DFT
 - ACRYLIC DRY FALL PAINT FOR TECTUM PANELS CEILING/ACOUSTICAL PAINT APPROVED BY MFR. TO MAINTAIN ACOUSTICAL PROPERTIES OF PANELS. REFER TO MFR PAINT SPEC FOR PREPARATION & ADDITIONAL REQUIREMENTS.
 - 2 COATS OF SHERWIN WILLIAMS, WATERBORNE ACRYLIC DRY FALL (B42W1) APPLIED @ 1.5-2.0 MILS DFT.
 - COVERAGE 336-450 SF/GALLON APPROX. MAY REQUIRE CROSS SPRAY AT RIGHT ANGLE.
 - FIBERGLASS AND PLASTIC SUBSTRATES:
 - PRIMER: 1 COAT SHERWIN WILLIAMS MULTI PURPOSE LATEX PRIMER APPLIED @ 1.6-1.8 MILS DFT
 - FINISH: 2 COATS SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX EG-SHEL APPLIED @ 2.0-4.0 MILS DFT

- STAINING AND TRANSPARENT FINISHING, BASIS OF DESIGN:
- SEMI TRANSPARENT STAIN SYSTEM:
 - PRIME COAT: STAIN SEMI-TRANSPARENT, MATCHING TOPCOAT
 - TOPCOAT: STAIN SEMI-TRANSPARENT, FOR INTERIOR WOOD [MPI #90]
 - POLYURETHAN VARNISH OVER STAIN SYSTEM:
 - STAIN COAT: STAIN, SEMI-TRANSPARENT, FOR INTERIOR WOOD [MPI #90]
 - FIRST INTERMEDIATE COAT: POLYURETHAN VARNISH MATCHING TOPCOAT.
 - SECOND INTERMEDIATE COAT: POLYURETHAN VARNISH MATCHING TOPCOAT.
 - TOPCOAT: VARNISH, INTERIOR, POLYURETHANE, OIL-MODIFIED, SATIN (GLOSS LEVEL 4) [MPI #57].

- EXTERIOR PAINT, BASIS OF DESIGN:
- EXPOSED GALVANIZED STEEL, STEEL OR ALUMINUM SUBSTRATES:
 - SHOP PRIMER, IF APPLICABLE, BY OTHERS.
 - FIELD EPOXY PRIMER: 1 COAT SHERWIN WILLIAMS PRO-INDUSTRIAL CRYL UNIVERSAL METAL PRIMER APPLIED @2.0-4.0 MILS DFT
 - FIELD FINISH: 2 COATS SHERWIN WILLIAMS HI-SOLIDS POLYURETHANE, EXTERIOR SEMIGLOSS APPLIED @ 3.0-5.0 MILS DFT

JOINT SEALANT SCHEDULE

- JOINT-SEALANT APPLICATION: EXTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES.
 - JOINT LOCATIONS:
 - ISOLATION AND CONTRACTION JOINTS IN CAST-IN PLACE CONCRETE SLABS.
 - JOINTS BETWEEN DIFFERENT MATERIALS LISTED ABOVE.
 - JOINT-SEALANT: URETHANE, M, P, 50, T, NT.
 - JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- JOINT-SEALANT APPLICATION: EXTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES.
 - JOINT LOCATIONS:
 - PERIMETER JOINTS BETWEEN MATERIALS LISTED ABOVE AND FRAMES OF DOORS, WINDOWS AND LOUVERS.
 - JOINT-SEALANT: SILICONE, NONSTAINING, S, NS, 50, NT.
 - JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- JOINT-SEALANT APPLICATION: INTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES.
 - JOINT LOCATIONS:
 - ISOLATION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
 - JOINT-SEALANT: URETHANE, S, P, 25, T, NT.
 - JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- JOINT-SEALANT APPLICATION: INTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES NOT SUBJECT TO SIGNIFICANT MOVEMENT.
 - JOINT LOCATIONS:
 - PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS, WINDOWS AND ACCESS PANELS.
 - JOINT-SEALANT: ACRYLIC LATEX.
 - JOINT SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- JOINT-SEALANT APPLICATION: MILDEW-RESISTANT INTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES.
 - JOINT LOCATIONS:
 - JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS.
 - TILE CONTROL AND EXPANSION JOINTS WHERE INDICATED.
 - JOINTS BETWEEN PLASTIC LAMINATE AND WALL SURFACE.
 - OTHER JOINTS AS INDICATED ON DRAWINGS.
 - JOINT-SEALANT: SILICONE, MILDEW RESISTANT, ACID CURING, S, NS, 25, NT.
 - JOINT-SEALANT COLOR: WHITE OR CLEAR
- JOINT-SEALANT APPLICATION: CONCEALED MASTICS.
 - JOINT LOCATIONS:
 - ALUMINUM THRESHOLDS.
 - SILL PLATES.
 - JOINT-SEALANT: BUTYL-RUBBER BASED.
 - JOINT-SEALANT COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.

ROOM FINISH SCHEDULE														
NO.	ROOM	FLOORS	BASE	WALLS								CEILING		NOTES
				NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
BASEMENT														
B01	BASEMENT		CONC	---	1	P	---	---	---	---	---	5		1, 3
B02	EQUIP.		CONC	1	P	1	P	1	P	1	P	1	P	
E01	ELEV.		WO											4
FIRST FLOOR														
1C1	HALL		CPT	RB	1	P	1	P	1	P	1	P	4	1
1C2	HALL		CPT	RB	1	P	1	P	1	P	1	P	4	1
1S1	STAIR		WD	WD	1	P	1	P	1	P	1	P	1/5	P 2
101	VESTIBULE		WO	WD	1/2	P	1/2	P	1/2	P	1/2	P	1	P
102	VISITOR INFORMATION		CT	WD	1	P	1	P	1	P	1	P	1/5	P 1
103	RECEPT.		CPT	RB	1	P	1	P	1	P	1	P	4	P
104	STOR.		CPT	RB	1	P	1	P	1	P	1	P	4	
105	OFFICE		CPT	RB	1	P	1	P	1	P	1	P	4	
106	JAN		CT	RB	1/6	P	1/6	P	1/6	P	1/6	P	4	
107	ADMIN.		CPT	RB	1	P	1	P	1	P	1	P	4	
108	BREAKRM		CT	WD	1	P	1	P	1	P	1	P	4	1
109	OFFICE		CPT	RB	1	P	1	P	1	P	1	P	4	
109A	CL		CPT	RB	1	P	1	P	1	P	1	P	4	
110	OFFICE		CPT	RB	1	P	1	P	1	P	1	P	4	
110A	CL		CPT	RB	1	P	1	P	1	P	1	P	4	
111	OFFICE		CPT	RB	1	P	1	P	1	P	1	P	4	
111A	CL		CPT	RB	1	P	1	P	1	P	1	P	4	
112	TLT.		CT	CT/1	P	CT/1	P	CT/1	P	CT/1	P	3	P	
113	TLT.		CT	CT	CT/1	P	CT/1	P	CT/1	P	CT/1	3	P	
E02	ELEV.		WO											4

MATERIALS	
1.	5/8" X-MOLD RESISTANCE GYPSUM BOARD (GPBD)
2.	STOREFRONT - THERMAL EXTERIOR SUSPENDED GYPSUM BOARD
3.	2'X2' ACOUSTICAL PANEL CEILING
4.	EXPOSED STRUCTURE
5.	FRP (FIBER-REINFORCED PLASTIC)

FINISHES KEY	
CPT	CARPET TILE
CT	CERAMIC TILE
P	PAINT
CONC	CONCRETE
RB	RUBBER BASE
WO	WALK-OFF CARPET TILE
WD	WOOD
RB	RUBBER BASE
WB	WOOD BASE

FINISHES	
CPT	MOHAWK GROUP CARPET TILES COLLECTION: SKETCH EFFECT STYLE: FRAMED STRUCTURE. #BT436 24" X 24", MONOLITHIC INSTALLATION COLOR: BROWN OAK #948 FULL GLUE DOWN PER MFR. RECOMMENDATIONS
WO	EF CONTRACT ACCESS WALK OFF COLOR: AX903 CHANNEL SIZE: 24" X 24", MONOLITHIC INSTALLATION
RB	4" HIGH RUBBER BASE ROPPE, COILS COLOR: 178 PEWTER
WB	4" WOOD BASE, STAINED TO MATCH DOORS
CT	PORCELAIN FLOOR & WALL TILE CERAMIC TILES INTERNATIONAL STYLE: LINK. COLOR: CHAIN SCULICH624R SIZE: 12" X 24" INSTALL PATTERN: GRID FLOORS & WALLS WALL TILE WAINSCOT IN RESTROOMS TO MATCH WITH SCHLUTER CLEAR ALUMINUM JOLLY TRIP CAP
CONC	SEALED CONCRETE
PAINT	WALLS: SW7641 COLONNADE GRAY PAINT DRYWALL CEILINGS & TECTUM CEILINGS: SW 6252 ICE CUBE SEE NOTES FOR PAINT TYPES
	SOLID SURFACE COUNTERTOPS & BACKSPLASHES: WILSONART, ARCTIC MELANGE 9070ML SOLID SURFACE WINDOW SILLS & PARTIAL HEIGHT WALL CAP: WILSONART, DESIGNER WHITE
	HPDPE TOILET PARTITIONS: OASIS, OSPREY
	WOOD DOORS & OTHER STAINED WOOD: VT INDUSTRIES: CHOCOLATE STAIN CH18 SELECT WHITE BIRCH
ACT:	USG, MARS 2'X2' CEILING TILES. #66185, SQUARE EDGE WITH 15/16" GRID, WHITE FINISH

NOTES:

- HOLLOW METAL EXTERIOR DOORS TO HAVE BLACK PAINT FINISH ON EXTERIOR TO MATCH BLACK STOREFRONT SYSTEM. INTERIOR PAINT FINISH OF DOORS AND FRAMES TO MATCH INTERIOR WALL PAINT COLOR IN SEMI GLOSS FINISH. PROVIDE ROPPE RUBBER NOSING #7 OR EQUAL AT TOP LANDING OF STAIR 1S1. COLOR TO MATCH RUBBER BASE. RE: DETAIL ON SHEET A402
- NORTH WALL GPBD AT ELEVATOR AND ELEVATOR EQUIPMENT ROOM. INTERIOR AND EXTERIOR OF ELEV. SHAFT/EQUIP ROOM RECEIVE PAINTED GPBD FINISH
- ELEVATOR INTERIOR FINISH BY MANUFACTURER. FLOORING BY CONTRACTOR. PROVIDED PLYWOOD OR OTHER APPROVED UNDERLAYMENT FOR WALK OFF CARPET.

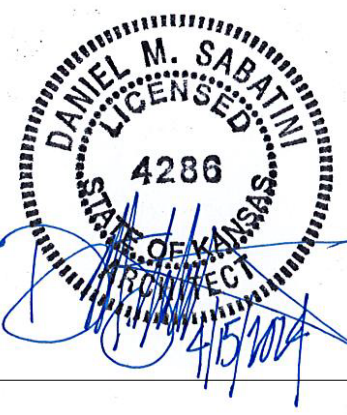
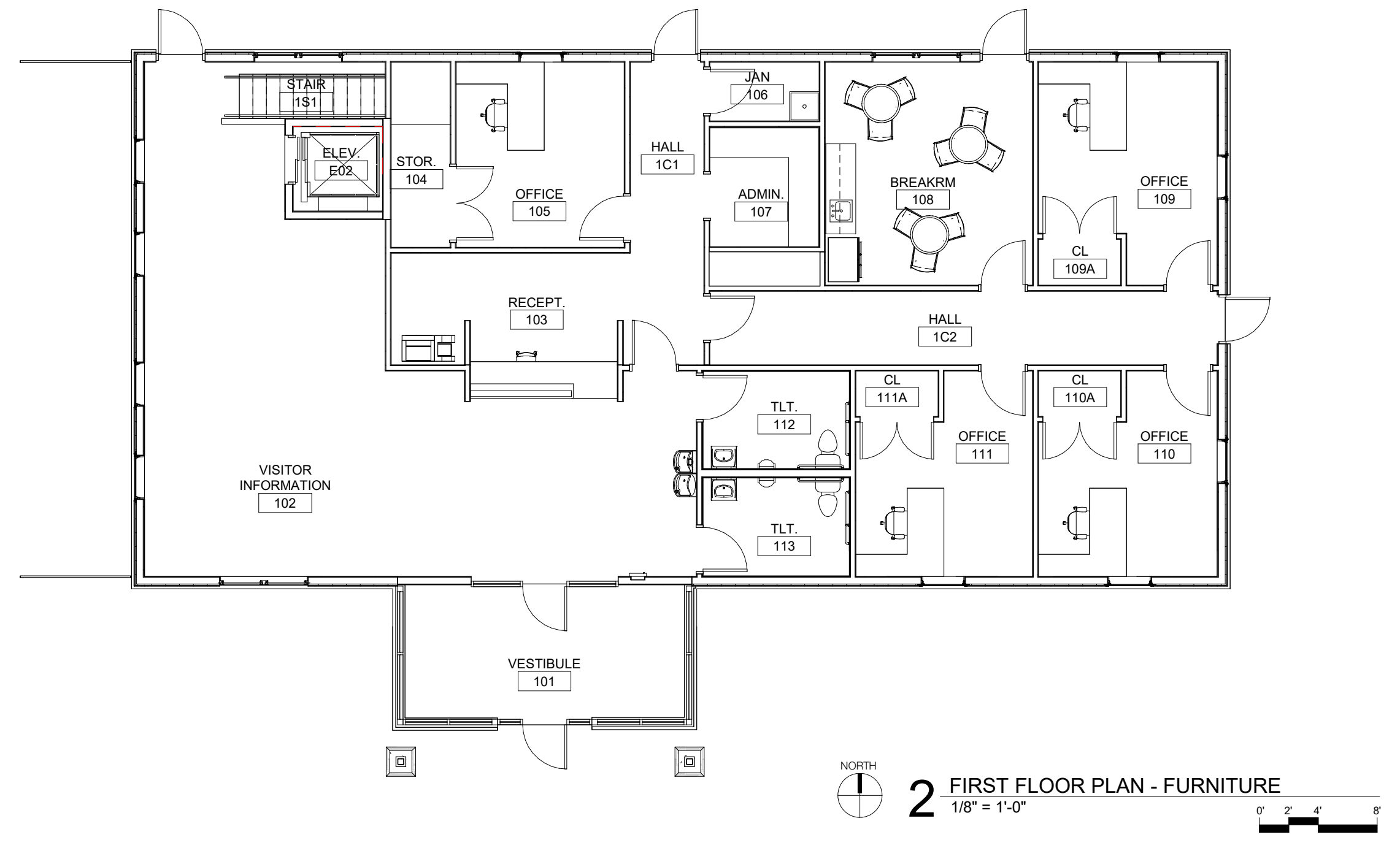
GENERAL FINISH NOTES:

- SCHLUTER TRANSITION FROM WO (WALK OFF) CARPET TILE TO CERAMIC TILE. ADA COMPLIANT.
- SCHLUTER TRANSITION FROM CARPET TILE TO CERAMIC TILE, ADA COMPLIANT.
- CERAMIC TILE WAINSCOT UP TO 5'-0" AFF. PAINT REMAINING WALL FROM TOP OF WAINSCOT TO CEILING. WAINSCOT TO HAVE SCHLUTER CLEAR ANODIZED JOLLY TRIM AT TOP AND EXPOSED EDGES
- FRP PANELS IN JANITORS CLOSET AT PERIMETER OF ROOM UP TO 48" AFF. COLOR: LIGHT GREY. PEBBLE TEXTURE. WOOD DOOR FINISH SHALL BE THE STAIN COLOR STANDARD USED THROUGHOUT THE PROJECT FOR MATCH OF WOOD BASE, EXPOSED TRUSS STRUCTURE INTERIOR AND EXTERIOR, WOOD CABINETRY & STAIR TO BASEMENT.
- FIREPLACE LIVE EDGE MANTEL TO HAVE PROTECTIVE CLEAR COAT FINISH.
- WOOD VENEER-FACED DOORS WITH TRANSPARENT FINISH. SEE A500 FOR WOOD DOOR REQUIREMENTS AND HARDWARE
- MANUAL OPERATION WINDOW ROLLER SHADES WITH FASCIA. BOD: DRAPER, 1% OPENNESS. SHADE COLOR TO BE LIGHT GREY. AT ALL WINDOW LOCATIONS ON FIRST FLOOR, EXCEPT VESTIBULE.
- ALL INTERIOR HOLLOW METAL DOOR FRAMES TO MATCH THE PAINT COLOR OF THE ADJACENT WALLS, IN SEMI GLOSS FINISH.
- NO EXTRA MATERIALS ARE TO BE PURCHASED FOR OWNER. LEAVE ANY FINISHES PURCHASED FOR PROJECT AND NOT USED FOR OWNER INCLUDING: CARPET, WALK OFF CARPET, RUBBER BASE AND PAINT. PACKAGE MATERIALS FOR STORAGE AND LABEL CONTENTS.
- PROVIDE SCHLUTER RENO-U OR EQUAL AT ALL TRANSITIONS FROM TILE TO CARPET. ANODIZED ALUMINUM FINISH.

FINISHES INSTALLATION NOTES:

CERAMIC TILE INSTALLATION:
 BOD: TEC 3N1 LARGE FORMAT TILE INSTALLATION, HYDRAFLEX, ACCUCOLOR SILICONE AND POWER GROUT. FLOOR PREP MULTIPURPOSE PRIMER, LEVEL SET, FEATHER EDGE.

CARPET TILE INSTALLATION: FULL GLUE DOWN. REFER TO MANUFACTURER FOR INSTALLATION GUIDELINES TO MAINTAIN WARRANTY.



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Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
 New Construction
 200 Horsefield Rd., Marquette, KS 67464
 BUILDING NUMBER 7-1000-2/677
 DATE: 9/30/2024 DRAWN BY: Author REV: 1

ROOM FINISH SCHEDULE
 A-015174
 A600
 CONSTRUCTION DOCUMENTS

STRUCTURAL GENERAL NOTES

GENERAL NOTES:

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE OTHER PROJECT DRAWINGS AND SPECIFICATIONS. THE MATERIAL REQUIREMENTS IN THESE NOTES ARE TO BE CONSIDERED AS MINIMUM. SPECIFICATIONS SHALL GOVERN WHEN MORE STRINGENT.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS. INFORM ENGINEER OF ALL DISCREPANCIES.

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATIONS OF PENETRATIONS AND EMBEDDED ITEMS THROUGH THE STRUCTURE FOR ALL TRADES. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

SEE MECHANICAL, ELECTRICAL, ARCHITECTURAL DRAWINGS FOR ANCHORS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED IN OR PASS THROUGH CONCRETE. IN GENERAL, EMBEDMENTS AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SEE ARCHITECTURAL DRAWINGS FOR DOOR HEIGHTS AND WALL OPENING DIMENSIONS.

STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.

SUPPORT OF ALL NON-STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NON-STRUCTURAL ELEMENTS ARE THOSE THAT DO NOT CONTRIBUTE TO THE DIRECT LOAD PATH OF BOTH THE GRAVITY AND LATERAL FORCE RESISTING SYSTEMS. THESE ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO PARTITIONS, FINISHES, MILLWORK, MECHANICAL EQUIPMENT, DUCTWORK, PIPING, LIGHT FIXTURES, ELECTRICAL CONDUIT, STORAGE RACKS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THESE ELEMENTS ARE ADEQUATELY CONNECTED TO THE STRUCTURE TO RESIST ALL APPLIED LOADS. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF UNUSUAL SUPPORT CONDITIONS EXIST.

WORK REQUIRING SPECIAL INSPECTIONS SHALL BE PERFORMED ACCORDING TO THE BUILDING CODE AND INCLUDES: CONCRETE, REINFORCING STEEL, STRUCTURAL WELDING, HIGH-STRENGTH BOLTING, AND MASONRY. RE: SPECIAL INSPECTION PROGRAM TABLE WHEN APPLICABLE.

DESIGN CRITERIA:

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE.

RISK CATEGORY: II

LIVE LOADS:

FLOOR: 20 PSF

FLOOR (NOT REDUCED UOJ):

VISITOR INFORMATION 102: 100 PSF

ALL OTHER MAIN LEVEL ROOMS: 65 PSF

(INCLUDES 15 PSF PARTITION LOAD)

BASEMENT SLAB ON GRADE: 125 PSF

CORRIDOR: 100 PSF

STAIR: 100 PSF

STORAGE: 125 PSF

SNOW LOADS:

GROUND SNOW LOAD, Pg: 20 PSF

FLAT-ROOF SNOW LOAD, Pf: 16 PSF

SNOW EXPOSURE FACTOR, Ce: 1.0

SNOW LOAD IMPORTANCE FACTOR, Is: II

THERMAL FACTOR, Ct: 1.1

WIND LOAD:

BASIC WIND SPEED: 110 MPH

EXPOSURE CATEGORY: C

BASIC INTERNAL PRESSURE COEFFICIENT, Gcpi: ±0.18

SEISMIC LOAD:

SEISMIC IMPORTANCE FACTOR, Ie: 1.0

SPECTRAL RESPONSE ACCELERATIONS:

Ss: 0.077

S1: 0.047

SPECTRAL RESPONSE COEFFICIENTS:

Sds: 0.067

Sd1: 0.047

SITE CLASS: C

SEISMIC DESIGN CATEGORY: A

FOUNDATION AND EARTHWORK NOTES:

REFER TO THE GEOTECHNICAL REPORT: KDWP VISITOR'S CENTER / TERRACON / APRIL 8, 2024.

THE FOUNDATION BEARING MATERIAL SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED.

AT STEPPED FOOTINGS, THE LOWER FOOTING SHALL BE PLACED FIRST.

FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF FOR CONTINUOUS FOOTINGS AND 1,500 PSF FOR ISOLATED SPREAD FOOTINGS. FOUNDATIONS SHALL BEAR IN UNDISTURBED SOILS OR CONTROLLED STRUCTURAL FILL AS APPROVED BY THE GEOTECHNICAL ENGINEER.

WALL FOUNDATION SHALL BEAR AT MINIMUM OF 3'-0" BELOW ADJACENT FINISH GRADE, UNLESS OTHERWISE NOTED.

UNUSUAL CONDITIONS OR CHANGES TO THE FOUNDATIONS AS REQUIRED BY FIELD CONDITIONS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO (2) FEET ON EITHER SIDE ANY TIME. WALL BACKFILL SHALL NOT BE PLACED BEFORE THE INTERIOR FLOOR SLAB IS PLACED.

CONSULT A GEOTECHNICAL ENGINEER/REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREP REQUIREMENTS FOR SLAB-ON-GRADE CONSTRUCTION. PREPARED SUBGRADES EXCAVATED TO INSTALL UTILITIES BELOW FLOOR SLABS SHALL BE BACKFILLED AND COMPACTED AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.

CONSULT A GEOTECHNICAL ENGINEER/REFER TO GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.

MAINTAIN ALL EXCAVATIONS FREE OF WATER.

CONCRETE NOTES:

CONCRETE SHALL HAVE THE FOLLOWING UNLESS OTHERWISE SPECIFIED (SELECT PROPORTIONS FOR CONCRETE IN ACCORDANCE WITH ACI 318):

	MAX WATER/CEMENT RATIO	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
INTERIOR SLAB ON GRADE	0.45	4,000 PSI
FOOTINGS	0.45	4,500 PSI
FOUNDATION WALLS	0.45	4,500 PSI

REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.

AGGREGATES SHALL CONFORM TO ASTM C33. COARSE AGGREGATE SHALL CONSIST OF 1" MAXIMUM AGGREGATE SIZE. COMBINED GRADATION SHALL HAVE A UNIFORM DISTRIBUTION AS FOLLOWS:
5-20% RETAINED ON 3/4", 1/2", 3/8", NO. 4, NO. 8, NO. 16, NO. 30 AND NO. 50 SIEVES; LESS THAN 5% PASSING NO. 50 SIEVE.

MATERIALS AND ADMIXTURES SHALL NOT CONTAIN CALCIUM CHLORIDE.

ALL EXTERIOR AND CONCRETE EXPOSED TO FREEZE/THAW CYCLES SHALL BE AIR-ENTRAINED 6%(±) BY VOLUME. THIS INCLUDES BUT IS NOT LIMITED TO FOOTINGS, FOUNDATION WALLS AND GRADE BEAMS.

SLEEVES, OPENINGS, OR OTHER ATTACHMENTS NOT SHOWN ON DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING CONCRETE.

REINFORCING INDICATED TO BE WELDED SHALL BE A706 REINFORCING.

MINIMUM TENSION LAP SPICE LENGTHS AND TENSION DEVELOPMENT LENGTHS SHALL BE AS SCHEDULED, UNLESS NOTED OTHERWISE ON THE DRAWINGS. WELDED WIRE FABRIC SHALL LAP ONE (1) FULL SQUARE PLUS TWO (2) INCHES.

MAINTAIN CONCRETE COVER AS SCHEDULED.

REINFORCING STEEL FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE.

ALL REINFORCING AND EMBEDDED ANCHOR BOLTS SHALL BE ACCURATELY PLACED AND TIED PRIOR TO POURING CONCRETE. "STABBING" OF DOWELS OR ANCHOR BOLTS IS NOT ALLOWED.

CONSTRUCTION JOINTS IN WALLS AND ELEVATED FORMED SLABS SHALL BE KEED (1 1/2" DEEP BY 1/3 MEMBER AREA) AND REINFORCING SHALL CONTINUE THROUGH JOINT OR BE TENSION LAP SPICED. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTOR TO LEAST IMPAIR THE STRUCTURE. JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

EMBEDDED CONDUIT SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL THICKNESS OF SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED. THEY SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.

CONDUIT LOCATED WITH CONCRETE SECTIONS SHALL COMPLY WITH ACI 318 REQUIREMENTS.

INTERIOR FLOOR SLABS SHALL COMPLY WITH ACI 117, SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL-TROWELED FINISH AS DESCRIBED IN ACI 302, AND SHALL ACHIEVE AN OVERALL FF35/FL25 TOLERANCE.

ADHESIVE ANCHORS IN CONCRETE OR FULLY GROUTED MASONRY SHALL BE ITW RAMSEY/REDHEAD EPON CERAMIC 6 SYSTEM, HILTI HY200, OR SIMPSON AT-3G. ADHESIVE ANCHORS FOR HOLLOW BLOCK AND OTHER MASONRY SHALL BE HILTI HY270 OR SIMPSON SET-3G.

STRUCTURAL STEEL ENCASED WITHIN CONCRETE SHALL COMPLY WITH AISC TOLERANCES.

STRUCTURAL STEEL NOTES:

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

WIDE FLANGE SHAPES (W, WT): ASTM A992 (Fy=50 KSI)

OTHER ROLLED SHAPES (M, S, HP, C, I): ASTM A36 (Fy=36 KSI)

STEEL PIPE: ASTM A53, GRADE B (Fy=35 KSI)

SQUARE AND RECTANGULAR TUBE: ASTM A500, GRADE B (Fy=46 KSI)

ANCHOR BOLTS: ASTM F1554, GRADE 36

HEADED ANCHOR STUDS: ASTM A108, GRADES 1010 TO 1020

PLATES AND BARS: ASTM A36 (Fy=36 KSI)

SHEAR CONNECTORS AND HEADED WELDED STUDS OF TYPE AND SIZE NOTED SHALL BE TYPE B.

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROPER FIT IN THE FIELD OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED ON THE CONTRACT DOCUMENTS.

ANCHOR BOLTS SHALL BE ASTM F1554, A36 UON. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES WITH THE APPROPRIATE BOLT PROJECTION, 4" MINIMUM UON. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.

NON-SHRINK GROUT UNDER BASE PLATES SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

HIGH STRENGTH BOLTED CONNECTIONS SHALL CONFORM TO THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING F3125 GRADE A325 BOLTS. UNLESS OTHERWISE NOTED, HIGH STRENGTH BOLTS MAY BE TIGHTENED BY ANY METHOD THEREIN. REGARDLESS OF THE METHOD USED IN TIGHTENING, A HARDENED WASHER SHALL BE USED UNDER THE TURNED ELEMENT. UNLESS OTHERWISE NOTED, BOLTED CONNECTIONS SHALL BE MADE WITH 3/4"Ø, ASTM A325 HIGH STRENGTH BOLTS.

CONNECTIONS REQUIRING FULL PRETENSIONING ARE SLIP-CRITICAL, AND INCLUDE BOLTED COLUMN SPLICES AND CONNECTIONS SUBJECT TO DIRECT TENSION.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STRUCTURAL WELDING CODE, AWS D1.1. UNLESS NOTED OTHERWISE, MINIMUM WELD SIZE SHALL BE PER AISC 360, BUT SHALL BE NO LESS THAN 3/16" FILLET.

STRUCTURAL STEEL NOTES CONTINUED:

FIELD WELDING SHALL NOT BE STARTED UNTIL JOINT ELEMENTS ARE BOLTED IN INTIMATE CONTACT AND/OR ADJUSTED TO DIMENSIONS INDICATED WITH ALLOWANCE FOR EXPECTED WELD SHRINKAGE. MAINTAIN PLUMBNESS AND TRUENESS OF THE STRUCTURE.

FIELD WELDS FOR STRUCTURAL STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES. WELD FILLER METAL SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.

WOOD NOTES:

GENERAL STRUCTURAL WOOD FRAMING SHALL MEET THE MINIMUM STRESS REQUIREMENTS FOR HEM-FIR #2 AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY.

ROOF SHEATHING SHALL BE 5/8" ZIP SYSTEM SHEATHING WITH A SPAN OF AT LEAST 32/16. PANELS SHALL BE NAILED WITH 10d GALVANIZED COMMON OR GALVANIZED BOX NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. 1/8" GAP BETWEEN INDIVIDUAL SHEETS. PLYWOOD SHALL BE APA RATED C-D EXTERIOR AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY.

ALL WOOD-TO-WOOD CONNECTIONS SHALL MEET THE MINIMUM NAILING REQUIREMENTS OF THE BUILDING CODE. ALL NAILS SPECIFIED IN PLAN SHALL BE COMMON NAILS.

PROVIDE SIMPSON CONNECTION HARDWARE AS SHOWN ON THE DRAWINGS. SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO USE. INSTALL CONNECTION HARDWARE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

INSTALL ALL FLOOR AND ROOF PLYWOOD SHEATHING WITH THE LONG DIMENSION OF THE PANEL PERPENDICULAR TO THE SUPPORTS WITH A MINIMUM OF TWO SPANS FOR EACH PANEL. STAGGER ALL END JOINTS. PROVIDE 1/8" SPACE AT PANEL JOINTS FOR EXPANSION PER APA.

FASTENERS FOR TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.

SUB-FLOORING WILL BE 3/4" TONGUE AND GROOVE CD INTERIOR PLYWOOD GLUED AND NAILED. NAILS SHALL BE 10d AT 6" AT PANEL EDGES AND 12" IN THE FIELD WITH 1 1/2" MINIMUM PENETRATION INTO SUPPORTING ELEMENTS.

WALL SHEATHING SHALL BE 1 1/2" R-SHEATHING ON THE EXTERIOR FACE OF ALL EXTERIOR WALLS, UNLESS NOTED OTHERWISE. PANELS SHALL BE NAILED WITH 0.131" SHANK X 3" NAILS AT 4" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS.

WOOD JOISTS SHALL HAVE CONTINUOUS HORIZONTAL BRIDGING AS PER THE BUILDING CODE.

PREFABRICATED WOOD TRUSS NOTES:

SPECIAL INSPECTIONS OF THE FABRICATION PROCESS OF PRE-FABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE IBC.

TRUSSES SHALL BE CONFIGURED TO FOLLOW FINAL ROOF LINES, UNLESS NOTED OTHERWISE.

TRUSSES SHALL BE DESIGNED FOR ALL LOAD COMBINATIONS REQUIRED BY THE BUILDING CODE, IN NO CASE SHALL THE DEAD LOAD BE LESS THAN 15 PSF ON THE TOP CHORD AND 10 PSF ON THE BOTTOM CHORD.

TRUSS MANUFACTURER SHALL SUPPLY ALL TRUSS CONNECTIONS USING PREFABRICATED STEEL CONNECTORS AS REQUIRED.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY AND PERMANENT BRACING IN ADDITION TO ANY BRACING INDICATED ON THE PLANS.

ALL TEMPORARY AND PERMANENT BRACING FOR INDIVIDUAL TRUSS MEMBERS SHALL BE DESIGNED BY AND STAMPED BY A PROFESSIONAL ENGINEER PROVIDED BY CONTRACTOR AND/OR TRUSS MANUFACTURER. APPLIED ROOF SHEATHING AND OTHER ROOFING MATERIALS SHALL NOT BE ASSUMED TO PROVIDE SUFFICIENT BRACING FOR TRUSS CHORDS.

SHOP FABRICATED WOOD TRUSSES SHALL MEET DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE. PROVIDE PERMANENT AND TEMPORARY BRACING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

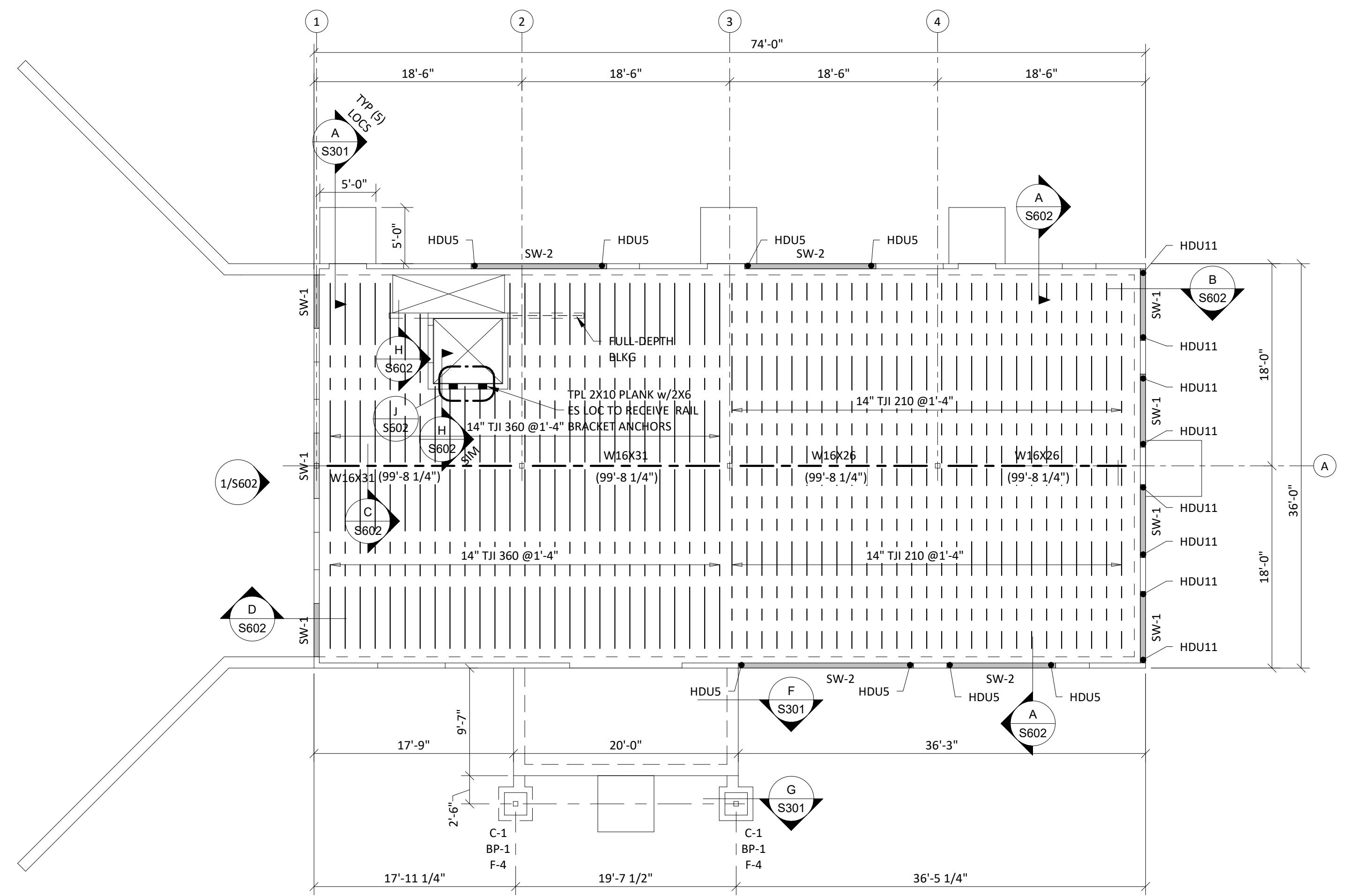
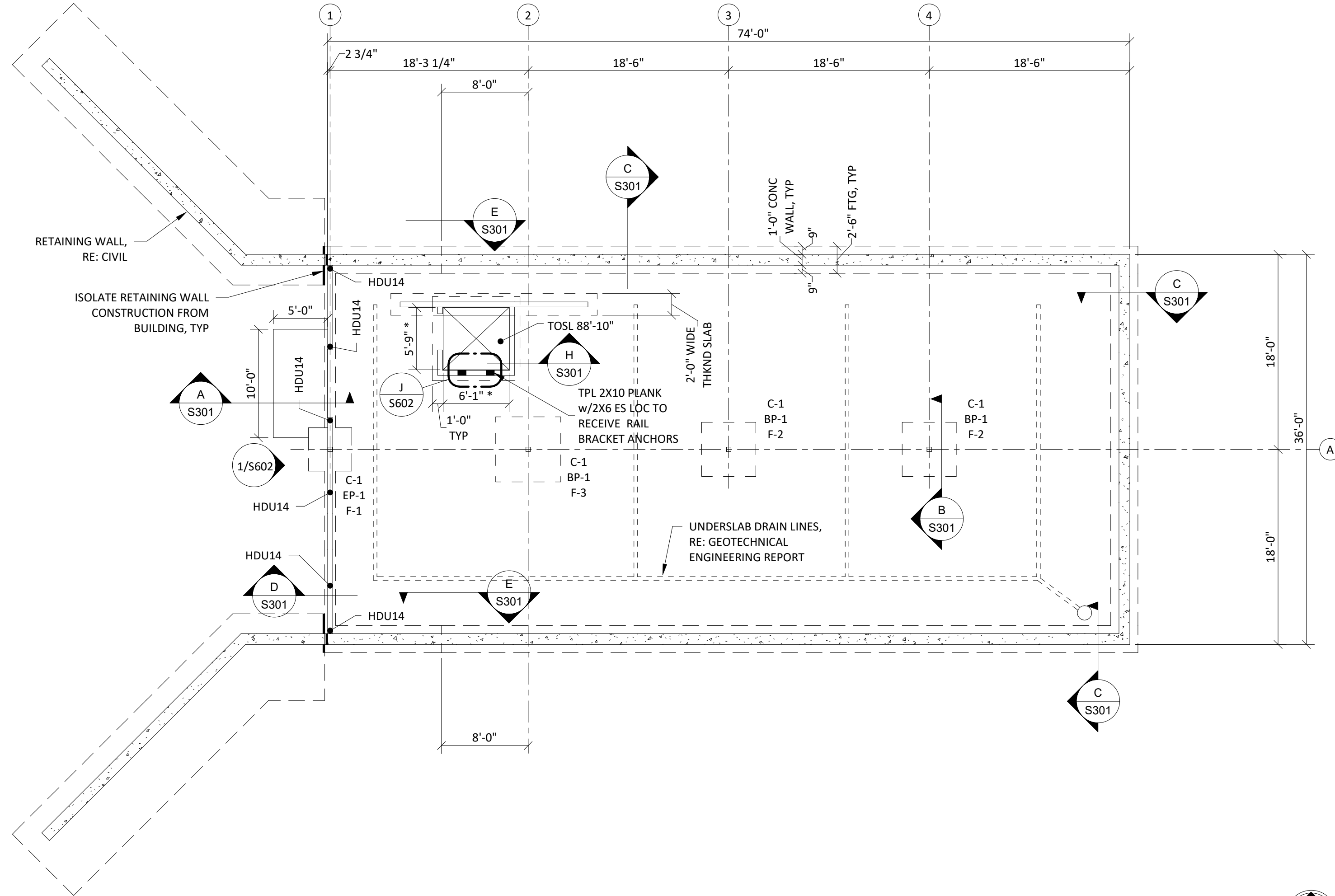
COORDINATE ALL TRUSS DETAILS WITH ARCHITECTURAL PLANS.

ROOF TRUSSES SHALL BE DELEGATED DESIGN, MEETING ALL CURRENT APPLICABLE CODES. PROVIDE PROFESSIONAL SEALED CALCULATIONS FOR REVIEW.

STRUCTURAL LEGEND

NOT ALL ITEMS LISTED BELOW ARE USED ON THIS SET OF STRUCTURAL DRAWINGS		PLAN LEGEND																																											
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AB	ANCHOR BOLT	COL	COLUMN	FFE	FINISH FLOOR ELEVATION	MASY	MASONRY	SHT	SHEET
ABV	ABOVE	CONC	CONCRETE	FLD	FIELD	MATL	MATERIAL	SHTHG	SHEATHING
ADD	ADDENDUM	CONN	CONNECTION	FLG(S)	FLANGE(S)	MAX	MAXIMUM	SIM	SIMILAR
ADDL	ADDITIONAL	CONST	CONSTRUCTION	FLR	FLOOR	MECH	MECHANICAL	SI	SLAB JOINT
ADH	ADHESIVE	CONT	CONTINUOUS	FLSH	FLASHING	MFR	MANUFACTURER	SL	SNOW LOAD
ADJ	ADJACENT	CONTR	CONTRACTOR	FOC	FACE OF CONCRETE	MIN	MINIMUM	SLA	SLAB
AFF	ABOVE FINISHED FLOOR	COORD	COORDINATE	FOM	FACE OF MASONRY	MISC	MISCELLANEOUS	SLP	SLOPE
AGG	AGGREGATE	COURSE	COURSE(S)	FOS	FACE OF STUDS	MTL	METAL	SPA	SPACE(D), SPACING
ALT	ALTERNATE	CTR(D)	CENTERED(D)	FS	FACE SIDE	NS	NEAR SIDE	SPEC	SPECIFICATIONS
ALUM	ALUMINUM	DBL	DOUBLE	FTG	FOOTING	NO.	NUMBER	SQ	SQUARE
ANC	ANCHORAGE	DIA	DIAMETER	FTS	FOOTING STEP	NOM	NOMINAL	SS	STAINLESS STEEL
ARCH	ARCH(ITECTURAL)	DIAG	DIAGONAL	GALV	GALVANIZED	NTS	NOT TO SCALE	STD	STANDARD
BEL	BELOW	DIM	DIMENSION	GB	GRADE BEAM	OC	ON CENTER	STIFF	STIFFENER
BLDG	BUILDING	DL	DEAD LOAD	GC	GENERAL CONTRACTOR	OH	OVERHEAD	STL	STEEL
BLK	BLOCK	DN	DOWN	GRD	GRADE, GRADING	OH	OPEN-WEB-JOIST(S)	STRUCT	STRUCTURE(AL)
BLKG	BLOCKING	DP	DRILLED PIER	GT	GROUT	OJ	OPPOSITE HAND	SW	SHEARWALL
BM	BEAM	DR	DOOR	GYP	GYP SUM	OPNG(S)	OPENING(S)	SYMM	SYMMETRICAL
BOT	BOTTOM	DS	DOWNSPOUT	HC	HOLLOW CORE	OPP	OPPOSITE	T&B	TOP & BOTTOM
BP	BASEPLATE	DTL	DETAIL	HD	HOLLOWDOWN	PAF	POWDER ACTUATED FASTENER	TDS	TIE DOWN SYSTEM
BPL	BEARING PLATE	DWG	DRAWING	HDG	HOT-DIPPED GALVANIZED	PC	PILASTER CAP	TEMP	TEMPORARY
BRG	BEARING	EA	EACH	HDR	HEADER	PEMB	PRE-ENGINEERED METAL BUILDING	THK	THICK(NESS)
BRK	BRICK	EB	EXPANSION BOLT	HK	HOOK	PFB	PREFABRICATED(D)	TR	TREAD
BRKL	BRICK LEDGE	EF	EACH FACE	HORZ	HORIZONTAL	PFN	PREFINISHED	TS	TUBE STEEL
BS	BOTH SIDES	ELEV	ELEVATION	HSA	HEADED STUD ANCHOR	PI	PILASTER	TYP	TYPICAL
BTWN	BETWEEN	ELEC	ELECTRICAL	INFO	INFORMATION	PL	PLATE	UNO	UNLESS NOTE OTHERWISE
BW	BOTH WAYS	EP	EMBED PLATE	INSUL	INSULATION	VERT	VERTICAL	VIF	VERIFY IN FIELD
BYND	BEYOND	EOD	EDGE OF DECK	INT	INTERIOR	PNT	PANEL	w/	WITH
CFS	COLD FORMED STEEL	EQ	EQUAL	JST	JOIST	PR	PAIR	w/o	WITHOUT
CJ	CONTROL JOINT	EQUIP	EQUIPMENT	JT	JOINT	PWD	PLYWOOD	WD	WOOD
CKR	CHECKER	EW	EACH WAY	KPL	KICK PLATE	LAD	LADDER	WP	WORK POINT



1 BASEMENT FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

2 FIRST FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

SLAB ON GRADE CONSTRUCTION: 5" THICK SLAB ON GRADE, REINFORCE WITH #4@1'-4" EACH WAY. LOCATE REINFORCEMENT 2" CLEAR BELOW TOP OF SLAB. PROVIDE 4" MINIMUM LAYER OF GRANULAR LEVELING COURSE BELOW SLAB. VAPOR BARRIER SHALL BE PLACED DIRECTLY OVER THE GRANULAR FILL AND UNDER SLAB. REFERENCE ARCHITECTURAL AND SPECIFICATIONS FOR FURTHER DETAILS. SEE GEOTECHNICAL ENGINEERING REPORT FOR FURTHER RECOMMENDATIONS.

WALL CONSTRUCTION: TYPICAL WALL FRAMING SHALL BE 2X6 @16" UNO. TOP PLATE SHALL BE CONTINUOUS AT ALL EXTERIOR, BEARING, AND SHEARWALLS, AND SHALL BE SPICED PER TYPICAL DETAILS. HEADERS SHALL BE (3) 2X12 UNO. PROVIDE (3) KING STUDS AND (1) TRIMMER STUD. SHEATH EXTERIOR WALLS WITH 1/2" ZIP SHEATHING R-SHEATHING.

ANCHOR BOLTS: ANCHOR BOLTS FOR SILL PLATES SHALL BE 5/8" SIMPSON TITEN HD SCREW-IN ANCHORS. ALL ANCHOR BOLTS SHALL HAVE A MINIMUM EMBED OF 4" AND SHALL BE CENTERED ON THE PLATE. PLATE HOLE DIAMETER SHALL BE 5/8" AND SHALL NOT BE OVERSIZED. PROVIDE 3/16X2X2 WASHERS. ALL ANCHOR BOLTS AND WASHERS SHALL BE HOT-DIP GALVANIZED. SPACE ANCHOR BOLTS AT 4'-0". REFERENCE SHEARWALL SCHEDULE FOR SILL ANCHORAGE AT SHEARWALLS.

TOP - TOP OF FOOTING ELEVATION = 89-3, UNLESS NOTED THUS: TOF (ELEV)
TOSL - TOP OF SLAB ELEVATION = 90-0 = SITE ELEVATION = 1520.00

SI - SLAB JOINT
FS - FOOTING STEP
C-(#) - DENOTES COLUMN MARK, REFERENCE SCHEDULE
F-(#) - DENOTES FOOTING MARK, REFERENCE SCHEDULE
BP-(#) - DENOTES COLUMN BASE PLATE TYPE, REFERENCE DETAILS

HDU14 - DENOTES SIMPSON HDU14-SDS2.5 HOLDDOWN WITH 1"Ø THREADED ROD ANCHOR, EMBED 2'-0" INTO FOUNDATION WALL. LOCATE HOLDOWN PER 3/S601.

COORDINATE ALL PENETRATIONS THROUGH THE SLAB AND ALL UNDER SLAB ITEMS WITH OTHER TRADES BEFORE CONSTRUCTION.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

* VERIFY WITH LIFT MANUFACTURER

WALL CONSTRUCTION: TYPICAL WALL FRAMING SHALL BE 2X6 @16" UNO. TOP PLATE SHALL BE CONTINUOUS AT ALL EXTERIOR, BEARING, AND SHEARWALLS, AND SHALL BE SPICED PER TYPICAL DETAILS. HEADERS SHALL BE (3) 2X12 UNO. PROVIDE (3) KING STUDS AND (1) TRIMMER STUD. SHEATH EXTERIOR WALLS WITH 1/2" ZIP SHEATHING R-SHEATHING.

FLOOR CONSTRUCTION: 3/4" T&G PLYWOOD ON TJI JOISTS. REFERENCE GENERAL NOTES FOR ATTACHMENT.

ANCHOR BOLTS: ANCHOR BOLTS FOR SILL PLATES SHALL BE 5/8" SIMPSON TITEN HD SCREW-IN ANCHORS. ALL ANCHOR BOLTS SHALL HAVE A MINIMUM EMBED OF 4" AND SHALL BE CENTERED ON THE PLATE. PLATE HOLE DIAMETER SHALL BE 5/8" AND SHALL NOT BE OVERSIZED. PROVIDE 3/16X2X2 WASHERS. ALL ANCHOR BOLTS AND WASHERS SHALL BE HOT-DIP GALVANIZED. SPACE ANCHOR BOLTS AT 4'-0". REFERENCE SHEARWALL SCHEDULE FOR SILL ANCHORAGE AT SHEARWALLS.

SW-(#) - DENOTES SHEARWALL MARK, RE: SCHEDULE

HDU5 - DENOTES SIMPSON HDU5-SDS2.5 HOLDDOWN WITH 5/8"Ø THREADED ROD ANCHOR, EMBED 2'-0" INTO FOUNDATION WALL. LOCATE HOLDOWN PER 3/S601.

HDU11 - DENOTES SIMPSON HDU11-SDS2.5 HOLDDOWN WITH 1"Ø THREADED ROD ANCHOR, EMBED 2'-0" INTO FOUNDATION WALL. LOCATE HOLDOWN PER 3/S601.

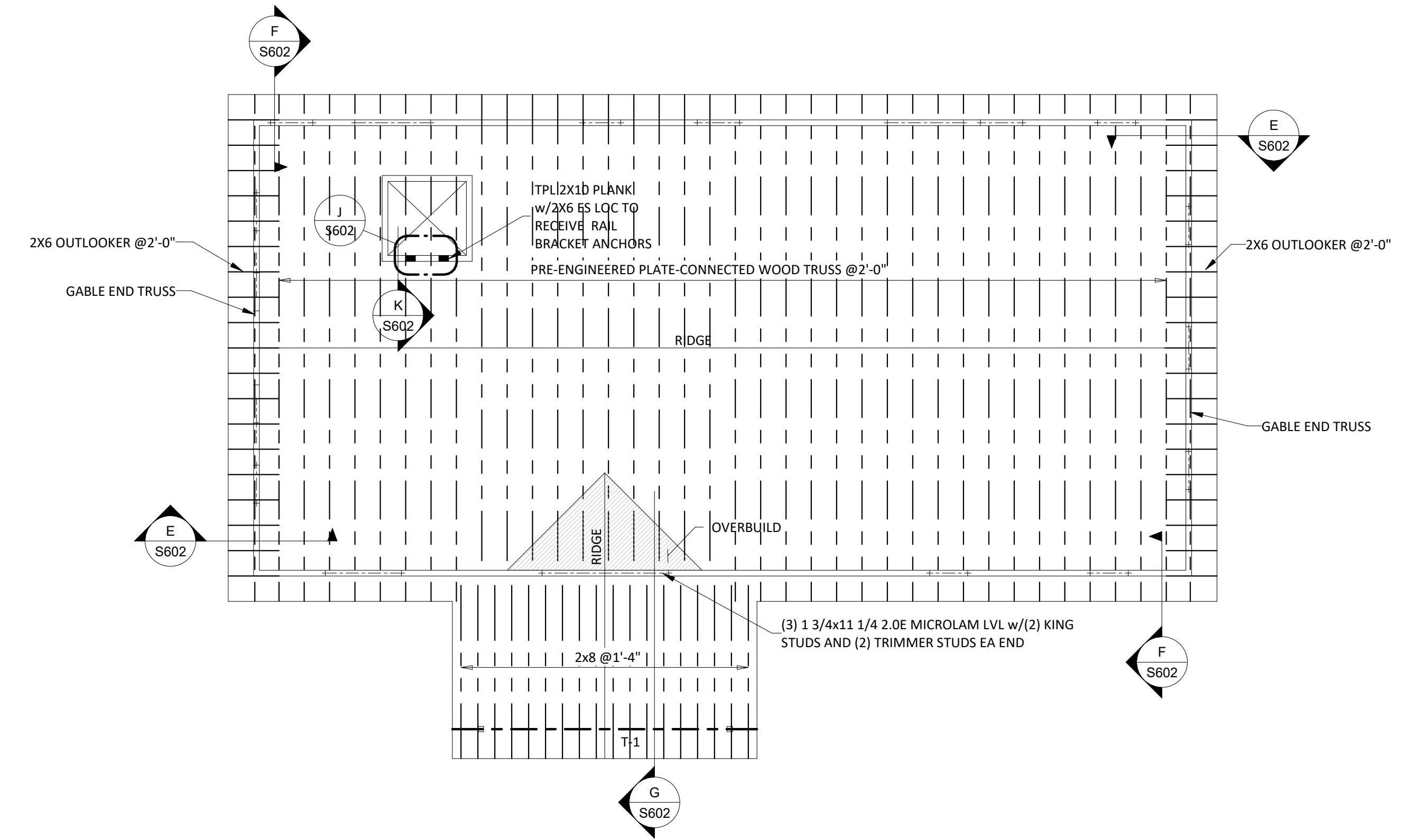
HDU14 - DENOTES SIMPSON HDU14-SDS2.5 HOLDDOWN WITH 1"Ø THREADED ROD ANCHOR, EMBED 2'-0" INTO FOUNDATION WALL. LOCATE HOLDOWN PER 3/S601.

TOS - TOP OF STEEL BEAM ELEVATION NOTED THUS: TOS (ELEV)
TOFL - TOP OF FLOOR ELEVATION = 100-0, UNLESS NOTED THUS: TOFL (ELEV)

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

ISOLATED FOOTING		
MARK	SIZE	REINFORCING
F-1	4-0X4-0X3-0	#5@12 EW BOT
F-2	5-0X5-0X1-4	#5@12 EW BOT
F-3	6-0X6-0X1-4	#5@12 EW BOT
F-4	3-0X3-0X3-0	#5@12 EW BOT

COLUMN SCHEDULE	
MARK	SIZE
C-1	H555X5X1/4



① **ROOF FRAMING PLAN**
SCALE: 1/8" = 1'-0"

ROOF CONSTRUCTION: 5/8" ZIP SYSTEM SHEATHING OVER TRUSSES OR JOISTS. SHEATHING SHALL BE CONTINUOUS UNDER AREAS OF OVERBUILD. REFERENCE GENERAL NOTES FOR SHEATHING SPECIFICATIONS AND ATTACHMENT.

TRUSS BEARING ELEVATION = 110-0, UNLESS NOTED OTHERWISE

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

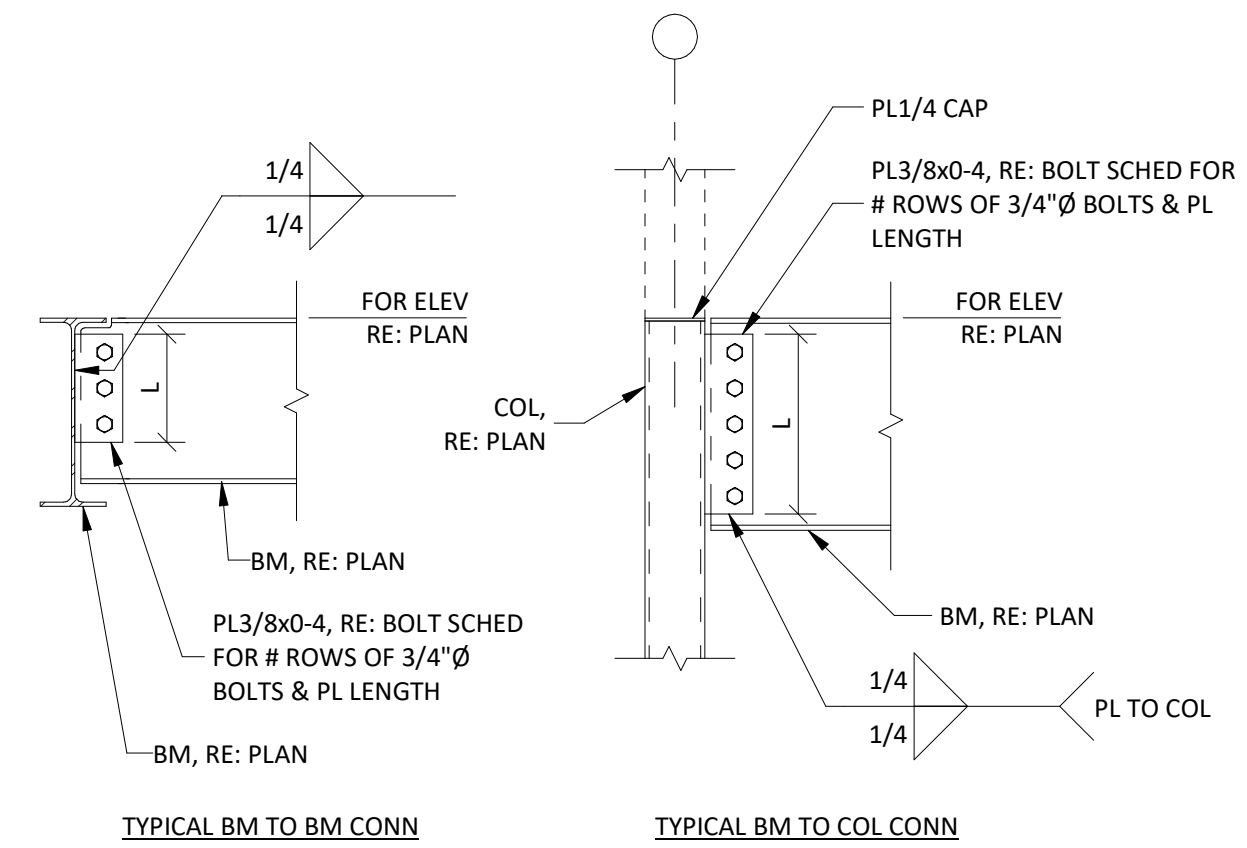
Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsethief Rd., Marquette, KS 67464
BUILDING NUMBER: 71000-27677
DATE: 09/30/24 DRAWN BY: GSH REV:

ROOF FRAMING PLAN

A-015174

S102

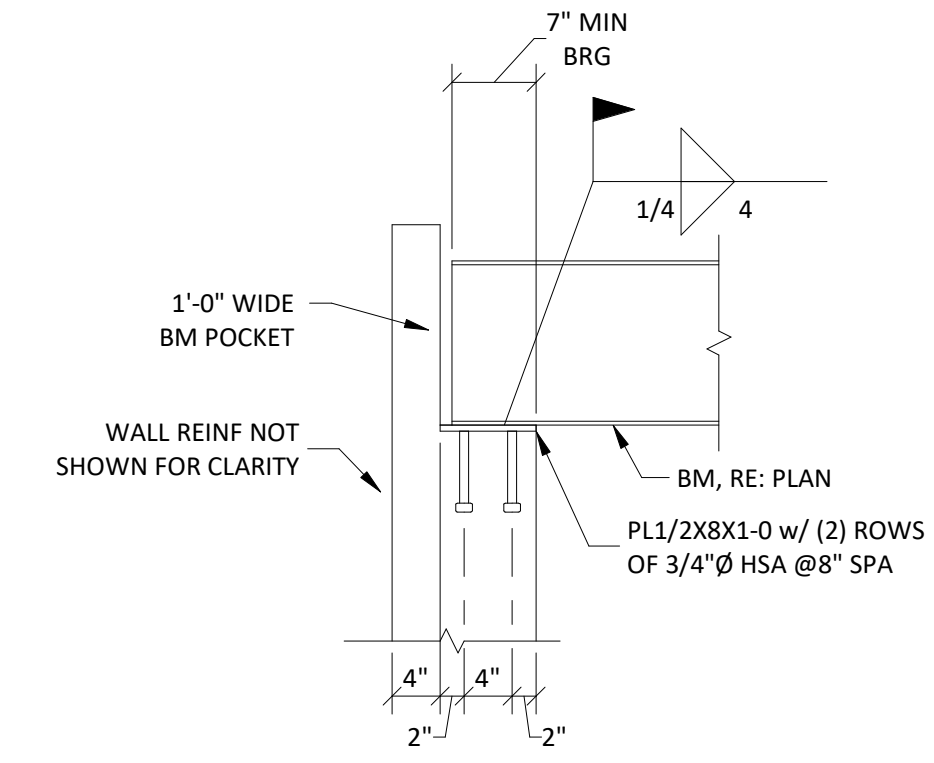
CONSTRUCTION DOCUMENTS



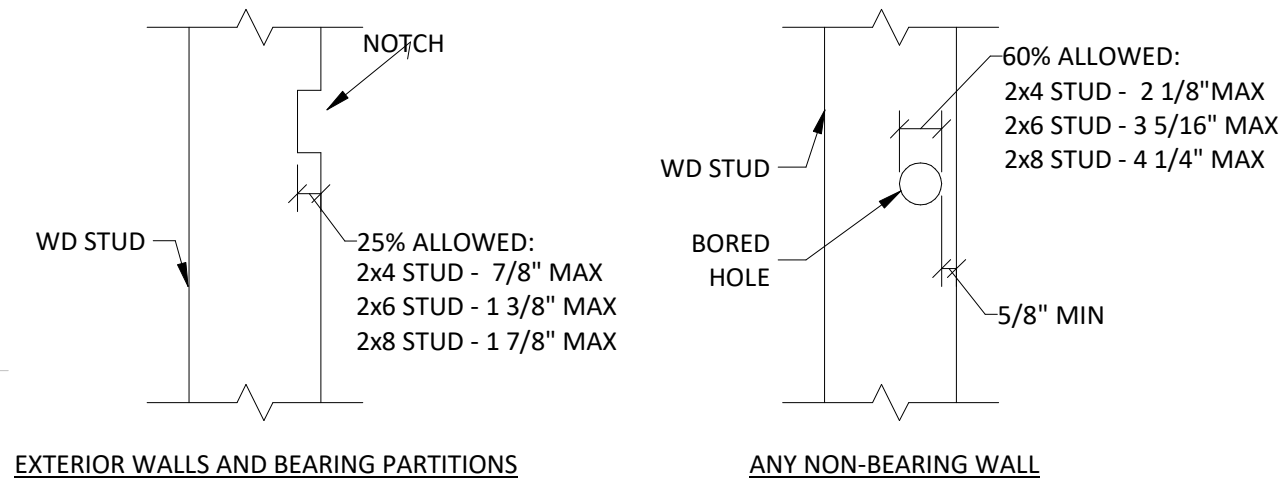
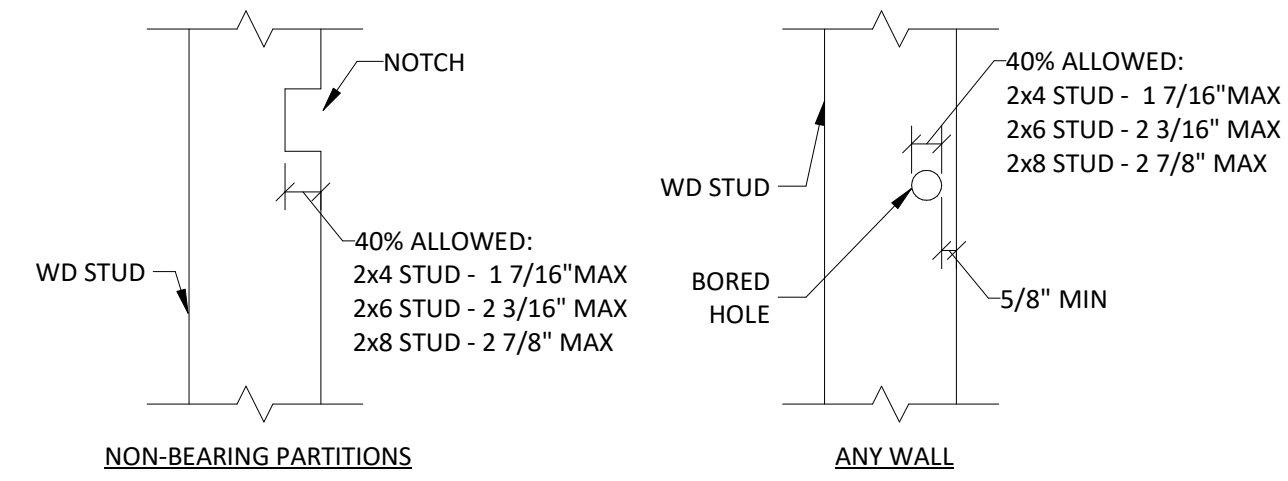
CONNECTION BEAM SIZE	LENGTH (L)	(#) ROWS OF BOLTS
W8, W10	6"	2
W12, W14	9"	3
W16	1'-0"	4
W18	1'-3"	5
W21	1'-6"	6
W24, W27	1'-9"	7
W30	2'-0"	8
W33	2'-6"	10

NOTE: BOLTS SHALL BE 3/4"Ø A325 AT 3" CENTERS, UNLESS NOTED OTHERWISE

① TYPICAL STEEL CONNECTION DETAIL
SCALE: NONE

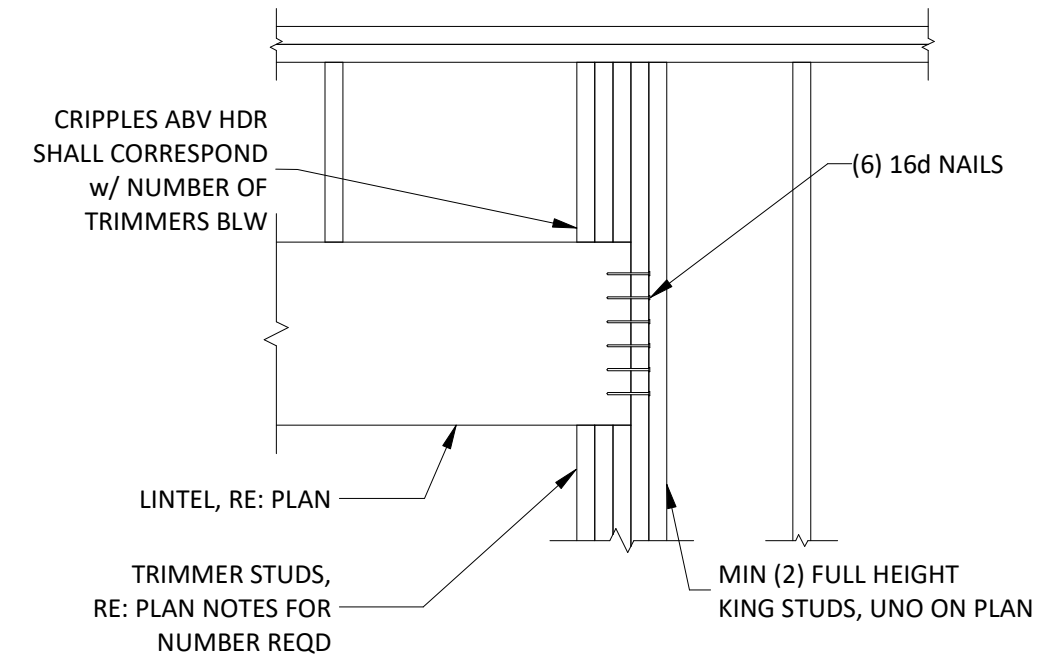


② TYPICAL BEAM BEARING IN CONCRETE WALL DETAIL
SCALE: NONE

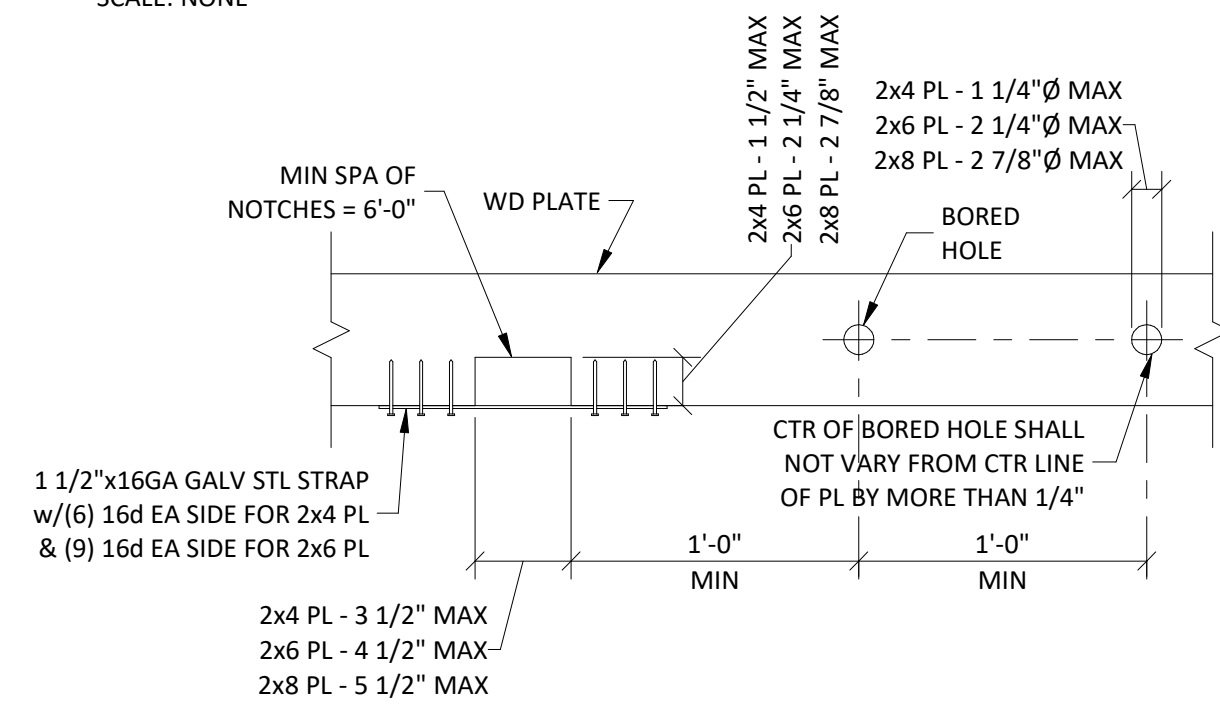


- HOLES, NOTCHES AND SLOTS ARE **NOT** TO BE LOCATED ADJACENT TO UNSOUND OR LOOSE KNOTS.
- HOLES, NOTCHES AND SLOTS ARE **NOT** ALLOWED IN SHEAR WALL CHORD MEMBERS.
- BORED HOLES SHALL **NOT** BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

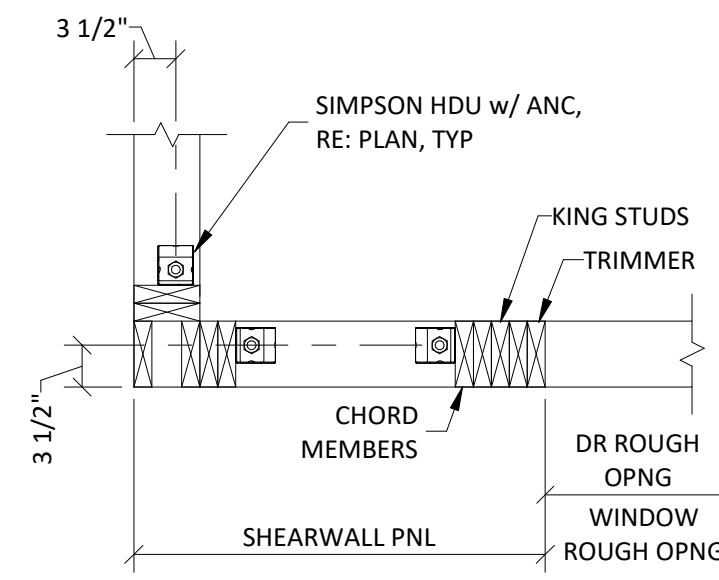
1 NOTCH AND BORING LIMITS FOR WOOD STUDS DETAIL
SCALE: NONE



2 TYPICAL HEADER CONSTRUCTION DETAIL
SCALE: NONE



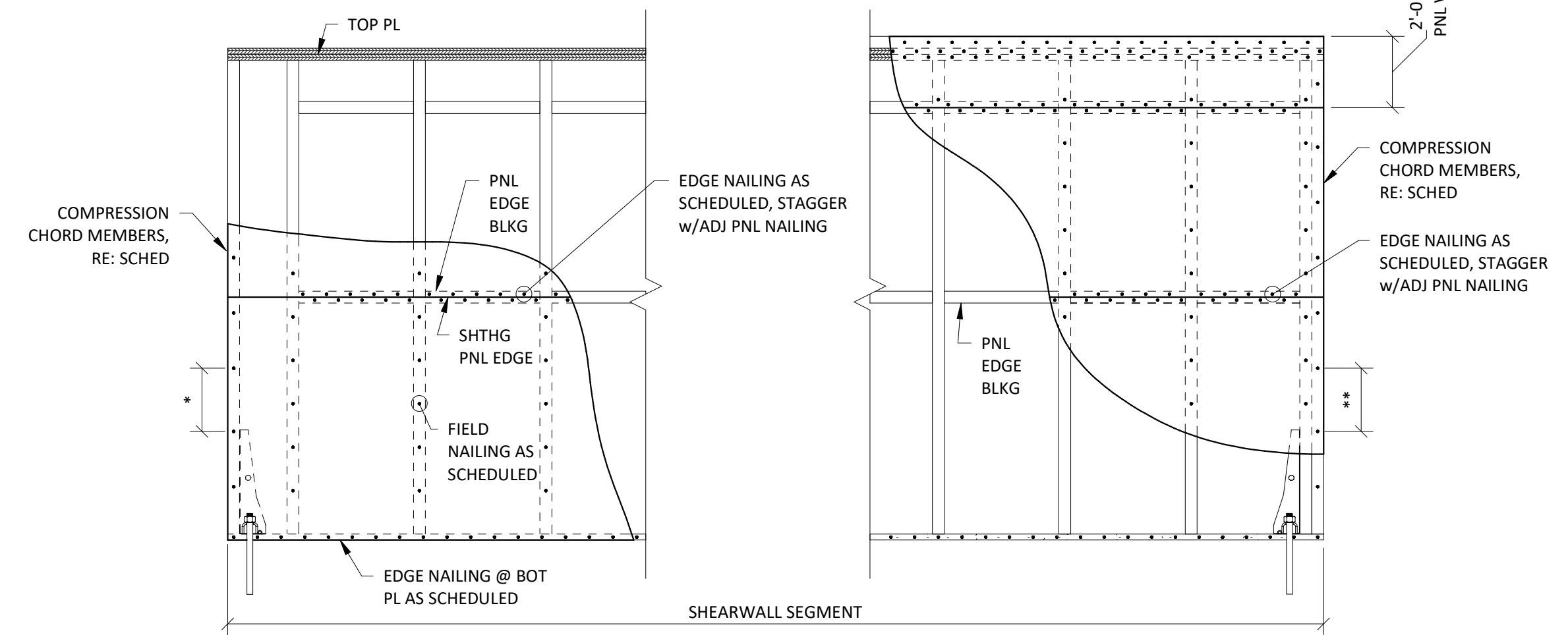
4 NOTCH AND BORING LIMITS FOR PLATES DETAIL
SCALE: NONE



3 TYPICAL HOLDDOWN DETAIL
SCALE: NONE

- NOTES:
- SPLICE REQUIRED OVER ALL SHEARWALLS AND ALL EXTERIOR AND BEARING WALL.
 - SPECIFIC SPLICE REQUIREMENTS DO NOT APPLY TO NON-SHEAR WALLS UNO. PROVIDE MINIMUM NAILING PER THE BUILDING CODE.

5 TYPICAL TOP PLATE SPLICE DETAIL
SCALE: NONE

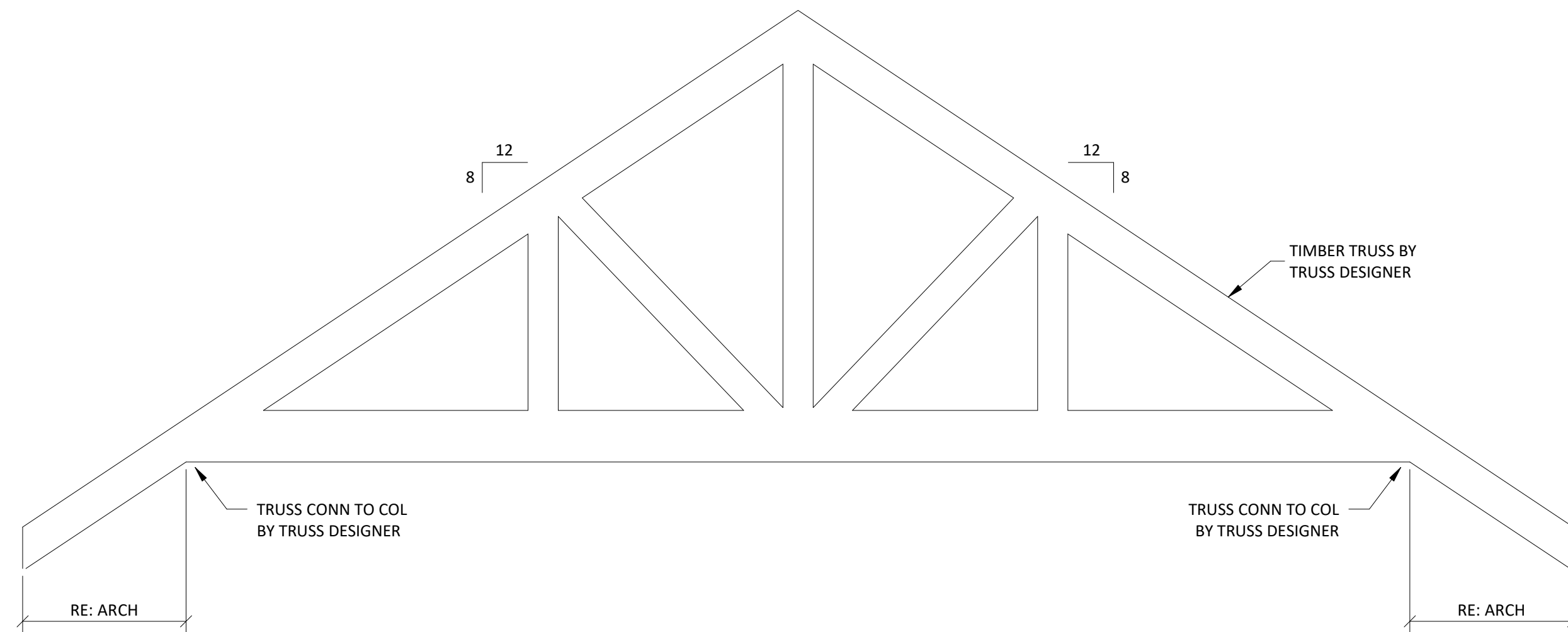


- * FOR LOCATIONS WHERE THERE IS ONE COMPRESSION CHORD MEMBER, THE NAILING SPACING REQUIRED FOR EACH CHORD MEMBER SHALL BE THE EDGE NAILING SCHEDULED MULTIPLIED BY TWO (2), BUT NOT TO EXCEED 12\", STAGGERED PATTERN
- ** FOR LOCATIONS WHERE THERE ARE TWO (2) OR MORE COMPRESSION CHORD MEMBERS, THE NAILING SPACING REQUIRED FOR EACH CHORD MEMBER SHALL BE THE EDGE NAILING SCHEDULED MULTIPLIED BY FOUR (4), BUT NOT TO EXCEED 12\", STAGGERED PATTERN

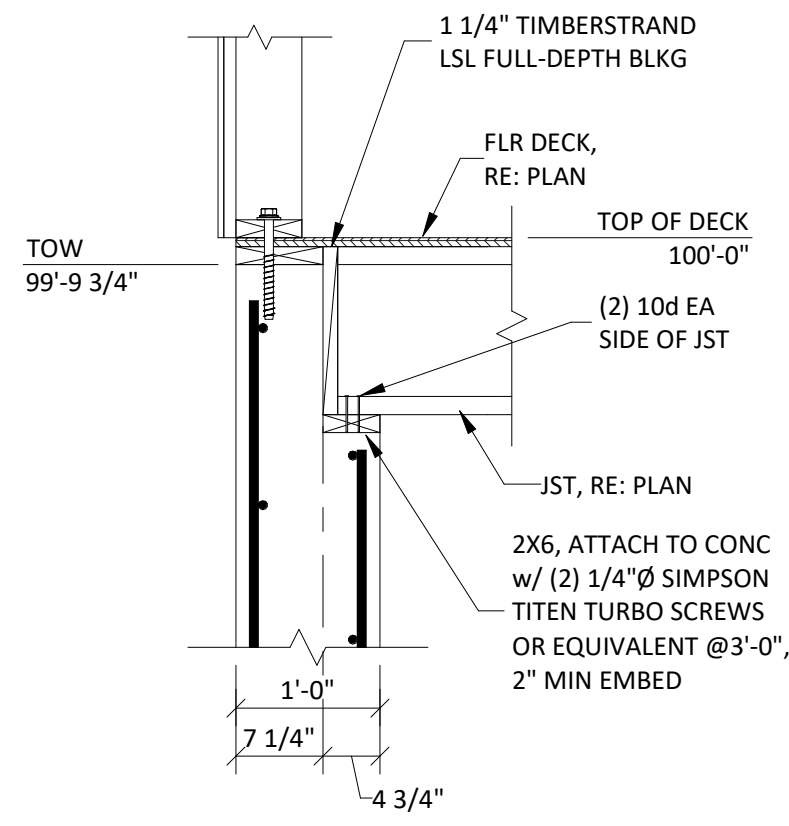
6 TYPICAL SHEARWALL NAILING DIAGRAM
SCALE: NONE

WOOD SHEARWALL (SW) SCHEDULE						
MARK	STUD SIZE & SPACING	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	COMPRESSION CHORD	SILL PLATE ANCHOR BOLT SPACING
SW-1	2x6@16	EXTERIOR: 1 1/2\" ZIP SYSTEM R-SHEATHING BLOCKED INTERIOR: 1/2\" OSB BLOCKED	EXTERIOR: 0.131\" SHANK X3\" NAILS @3\" INTERIOR: 8d COMMON OR 8d GALVANIZED BOX WITH 1 3/8\" MINIMUM PENETRATION INTO FRAMING @3\"	EXTERIOR: 0.131\" SHANK X3\" NAILS @12\" INTERIOR: 8d COMMON OR 8d GALVANIZED BOX WITH 1 3/8\" MINIMUM PENETRATION INTO FRAMING @12\"	(4) 2X6	EAST FOUNDATION WALL: 1\"-4\", RE: NOTE 7. GRID LINE 1: (3) 16d NAILS @3\"
SW-2	2x6@16	EXTERIOR: 1 1/2\" ZIP SYSTEM R-SHEATHING BLOCKED	EXTERIOR 0.131\" SHANK X3\" NAILS @3\"	EXTERIOR 0.131\" SHANK X3\" NAILS @12\"	(2) 2X6	1\"-4\", RE: NOTE 7

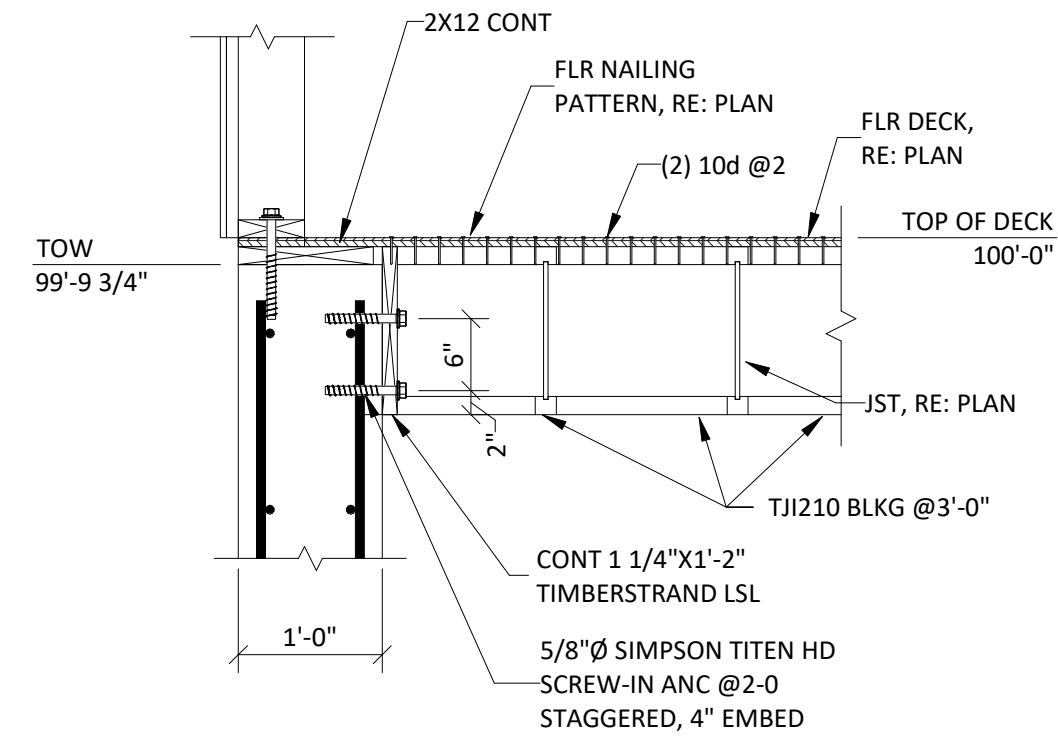
- STUD SPACING 16\" OC MAX. STUDS AND BLOCKING AT EDGES SHALL BE 2X NOMINAL. PLYWOOD JOINT AND SILL PLATE NAILING SHALL BE STAGGERED IN ALL CASES. SEE TYPICAL SHEARWALL DETAIL FOR MORE INFORMATION.
- PROVIDE FULL HEIGHT COMPRESSION CHORD AT ENDS OF SHEARWALL. HOLDDOWNS AS SPECIFIED ON PLAN SHALL BE ATTACHED TO COMPRESSION CHORD PER DETAILS AND MFR RECOMMENDATIONS. TRIMMER STUD MAY BE USED AS END STUD AT NON-BEARING WALLS ONLY. STAGGER EDGE NAILING AT COMPRESSION CHORD. FACE NAIL COMPRESSION CHORD WITH (2) 16d AT 16\" OC.
- PROVIDE CONTINUOUS DOUBLE 2X TOP PLATE AT ALL SHEARWALLS, EXTERIOR WALLS AND BEARING WALLS. LAP SPLICE TOP PLATE PER TYPICAL DETAIL.
- FOR SHEARWALL HOLDOWN INFORMATION, RE: PLAN.
- WHERE NOTED ON PLAN, SHEARWALLS SHALL EXTEND BETWEEN OPENINGS OR CORNER OF WALL UNLESS LENGTH IS NOTED. SHEATHING SHALL NOT BE INTERRUPTED BY INTERSECTING WALLS.
- OFFSET PANEL JOINTS ON EITHER SIDE OF WALL SO JOINTS OCCUR ON DIFFERENT FRAMING MEMBERS.
- SILL PLATE ANCHORAGE: ANCHOR BOLTS FOR SILL PLATES SHALL BE 5/8\" SIMPSON TITEN HD SCREW ANCHORS. ALL ANCHOR BOLTS SHALL HAVE A MINIMUM EMBED OF 4\" AND SHALL BE CENTERED ON THE PLATES UNLESS NOTED OTHERWISE. PLATE HOLE DIAMETER SHALL BE 5/8\" AND SHALL NOT BE OVERSIZED. PROVIDE 3/16X2X2 PLATE WASHERS. ALL ANCHOR BOLTS AND WASHERS SHALL BE HOT-DIP GALVANIZED.



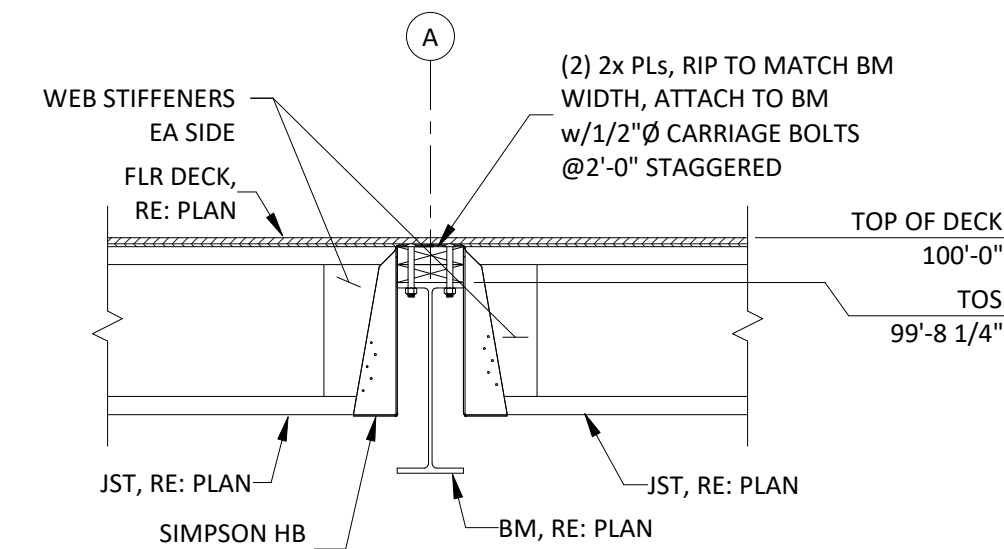
7 T-1 TRUSS DETAIL
SCALE: NONE



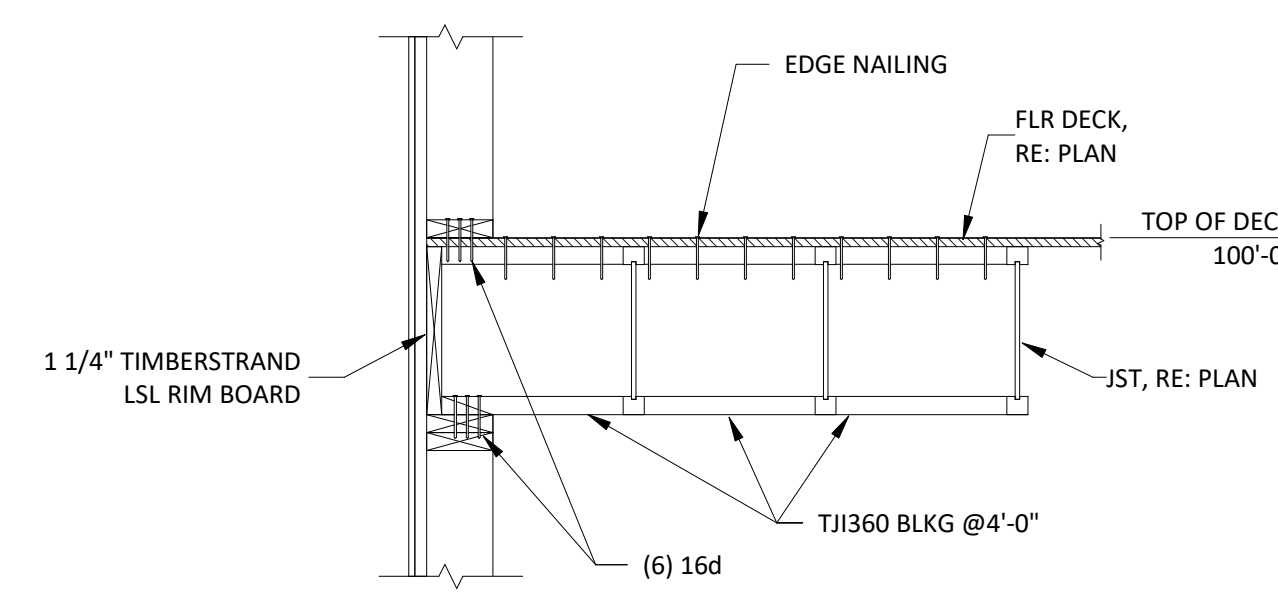
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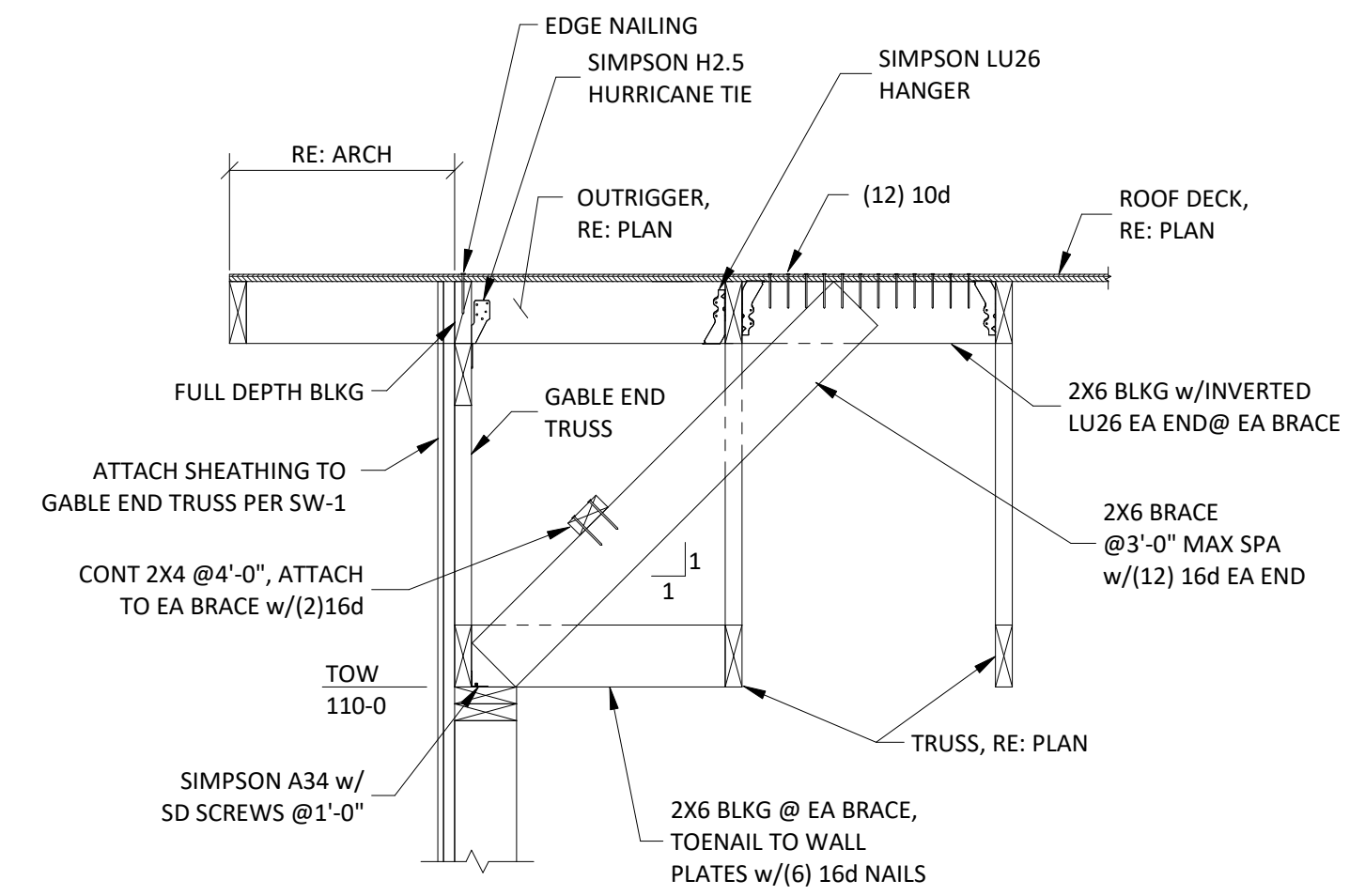
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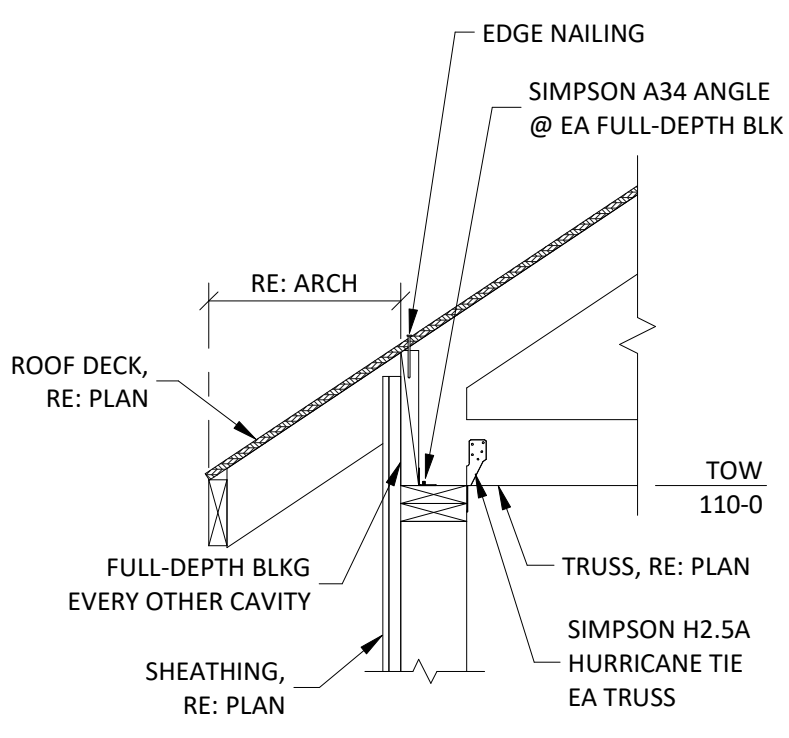
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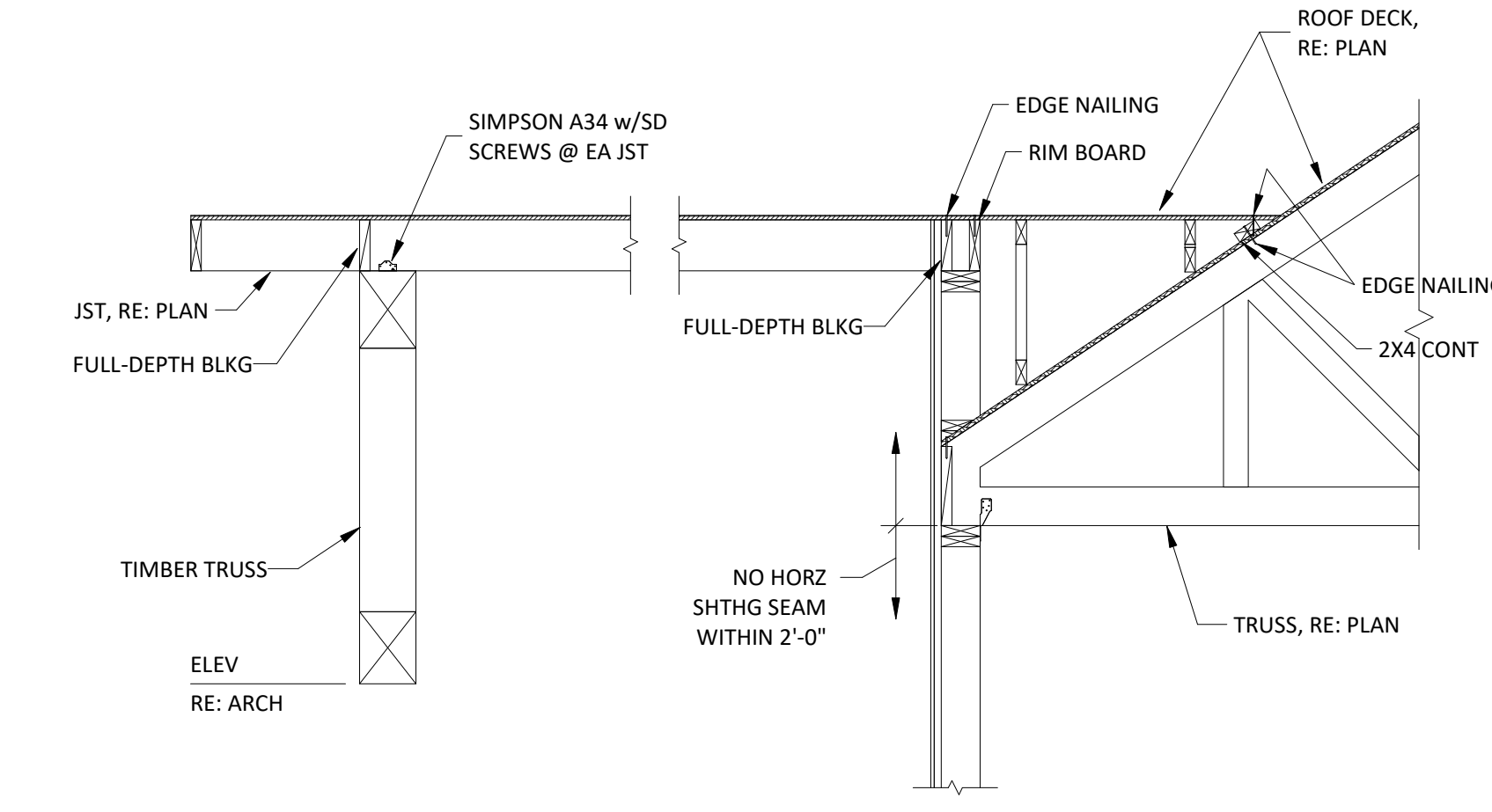
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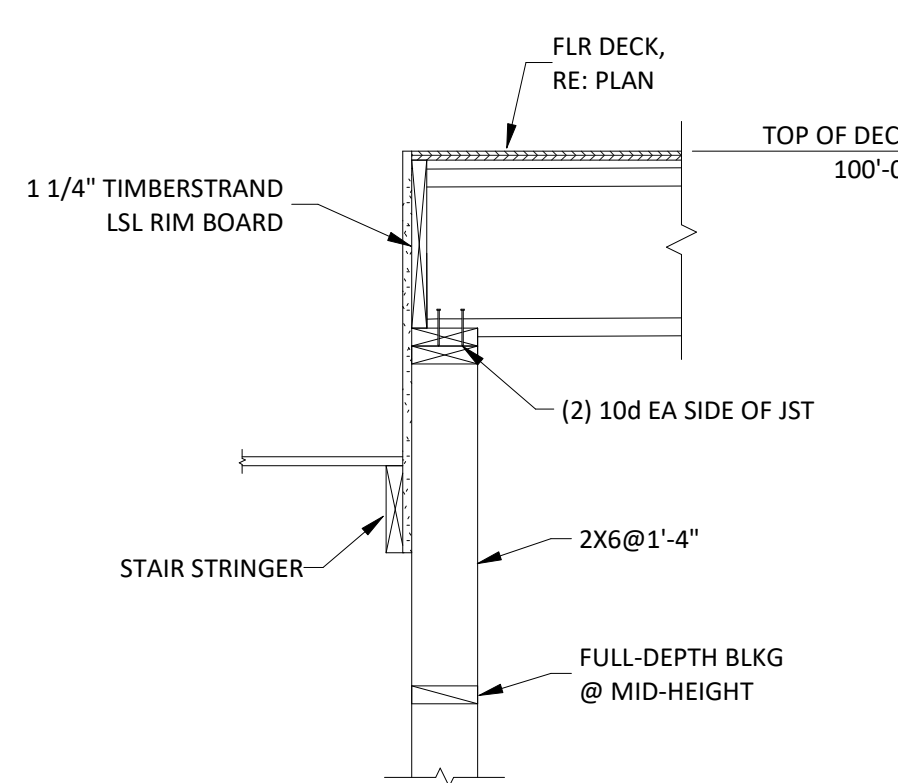
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SCALE: NONE



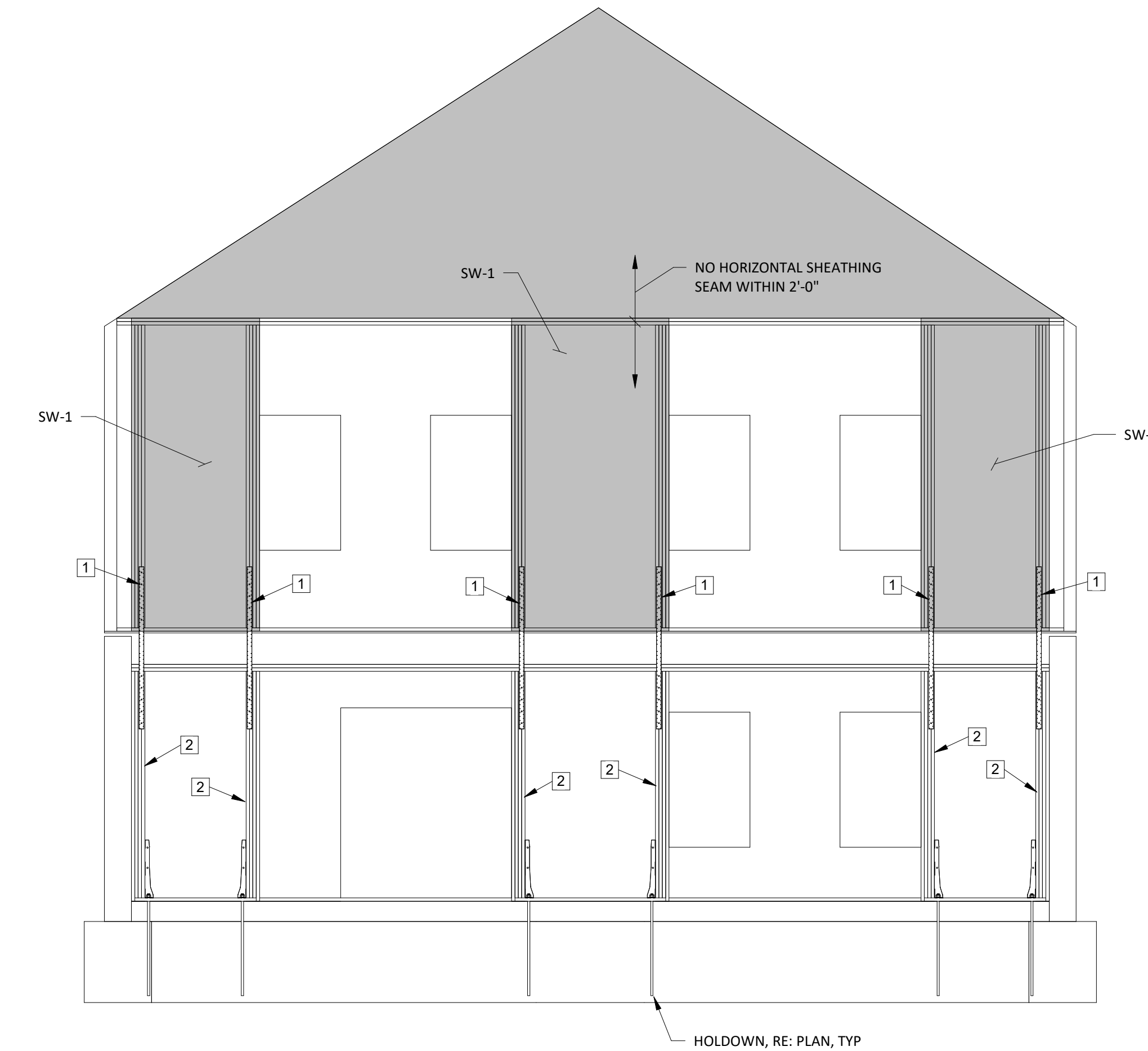
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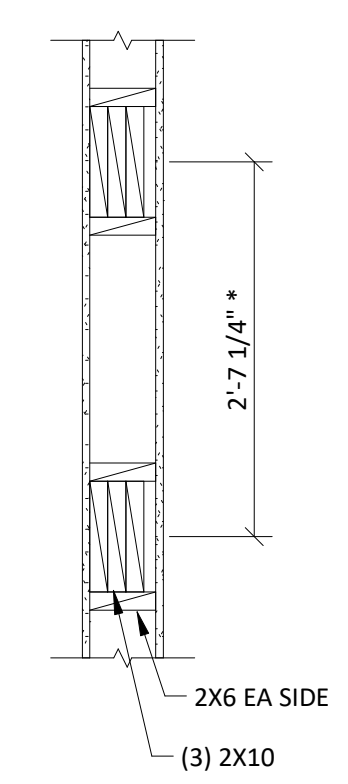
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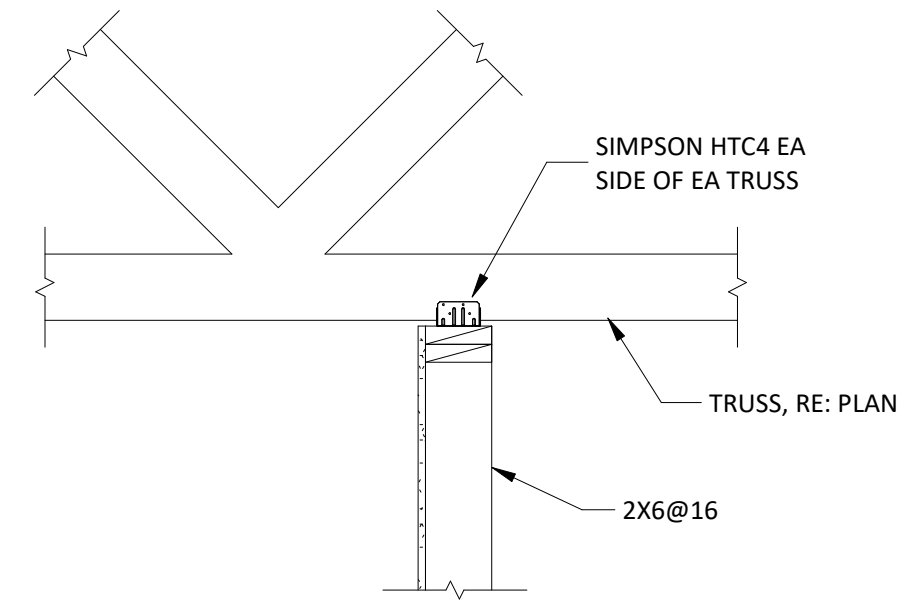
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1 SHEARWALL ELEVATION
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J SECTION
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K SECTION
SCALE: NONE

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
1	SIMPSON MST72 STRAP TIE ON INTERIOR AND EXTERIOR FACE OF STUDS.
2	(4) 2X6, SISTER EACH PLY TO NEIGHBORING PLY WITH (2) 16d@1'-4".

MECHANICAL SYMBOLS LEGEND			
	WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES)		MANUAL DAMPER
	WASTE LINE ABOVE EARTH (W.)		BACKDRAFT DAMPER
	WASTE LINE IN EARTH (W.)		AUTOMATIC DAMPER
	CLEAN OUT		FIRE DAMPER
	FLUSH FLOOR CLEAN OUT		FIRE/SMOKE DAMPER
	FLUSH GRADE CLEAN OUT		SMOKE DAMPER
	FLOOR DRAIN AND TYPE		GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM
	ROOF DRAIN		VOLUME EXTRACTOR AND TURNING VANES
	OVERFLOW ROOF DRAIN		RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN
	ROOF DRAIN AND TYPE		SUPPLY AIR DUCT SECTION UP AND DOWN
	VENT LINE (V.)		FLEXIBLE DUCT CONNECTION
	DOMESTIC COLD WATER SUPPLY (DCW)		ROUND OR RECTANGULAR DUCT
	DOMESTIC HOT WATER SUPPLY (DHW)		FLEXIBLE DUCT
	DOMESTIC HOT WATER RETURN (DHW-R)		THERMOSTAT
	HOSE BIBB AND MOUNTING HEIGHT		REFRIGERANT LIQUID
	WALL HYDRANT		REFRIGERANT SUCTION
	FIRE LINE/STANDPIPE		ACCESS DOOR
	DRAIN LINE		ABOVE FINISHED FLOOR
	NATURAL GAS LINE		EXHAUST AIR
	RISE & DROP IN PIPE WITH CUT-OFF VALVE		OUTSIDE AIR
	REDUCER		RETURN AIR
	CHECK VALVE		SUPPLY AIR
	STOP VALVE		VENT BELOW SLAB
	BALANCING VALVE/AUTOFLOW VALVE		VENT THRU ROOF
	PLUG VALVE		VARIABLE FREQUENCY DRIVE
	2-WAY CONTROL VALVE OR SOLENOID VALVE		CONNECT NEW TO EXISTING
	3-WAY CONTROL VALVE OR SOLENOID VALVE		LOCKABLE GUARD
	PRESSURE REDUCING VALVE		
	STRAINER		
	UNION		
	FLEXIBLE PIPE CONNECTION		

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO ELECTRICAL SYMBOLS LEGEND FOR ELECTRICAL SYMBOLS THAT MAY BE SHOWN ON MECHANICAL PLANS.

ELECTRICAL SYMBOLS LEGEND			
	CONDUIT CONCEALED IN CEILING OR WALL		SWITCH - SINGLE POLE
	CONDUIT CONCEALED IN FLOOR SLAB		3-WAY, 4-WAY
	EXPOSED CONDUIT		LIGHT FIXTURE AND TYPE
	HOMERUN - ARROW INDICATES CKT., LINES INDICATE WIRES		FIXTURE WITH BATTERY PACK
	GROUND WIRE		FIXTURE ON SAFETY BRANCH OF EMERGENCY SYSTEM
	GROUNDING ROD		LIGHT FIXTURE
	SINGLE RECEPTACLE		LIGHT FIXTURE (WALL MOUNTED)
	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)		EXIT LIGHT (CEILING OR WALL MOUNTED)
	DUPLEX RECEPTACLE WITH USB OUTLETS		FLUSH PANELBOARD (LIGHT & RECEPTACLES)
	SWITCHED DUPLEX RECEPTACLE		SURFACE PANELBOARD (LIGHT & RECEPTACLES)
	FOURPLEX RECEPTACLE		DISTRIBUTION PANEL OR SWITCHBOARD
	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)		DEVICE LOCATED ABOVE COUNTER
	FLOOR DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)		ABOVE FINISHED FLOOR
	TELE/DATA OUTLET *		DIMMER
	TELE/DATA OUTLET *		INDICATES EXISTING DEVICE
	PUSHBUTTON		ELECTRIC DRINKING FOUNTAIN
	VARIABLE FREQUENCY DRIVE		GROUND FAULT INTERRUPTER
	OVERRIDE TIMER		NIGHTLIGHT FIXTURE, WIRED HOT
	PHOTOCELL		WEATHERPROOF
	CEILING SPEAKER		ARCH FAULT CIRCUIT INTERRUPTER
	MOTOR		CONNECT NEW TO EXISTING
	FUSIBLE SWITCH (BUSSMAN SSU)		LOCKABLE GUARD
	DISCONNECT SWITCH (D.S.)		
	COMBINATION MOTOR STARTER (CMS)		
	RELAY		
	JUNCTION BOX		
	THERMOSTAT		

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS. REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS. * 4x4 BACKBOX WITH SINGLE GANG PLASTER RING AND A 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.

NFPA SYMBOLS LEGEND	
	SMOKE DETECTOR
	SMOKE DETECTOR WITH SOUNDER BASE
	SMOKE DETECTOR WITH ISOLATOR BASE
	WALL MOUNTED SMOKE DETECTOR
	HEAT DETECTOR
	DUCT DETECTOR
	ADDRESSABLE MANUAL PULL STATION
	DOOR HOLDER
	FLOW DETECTOR/SWITCH
	TAMPER DETECTOR
	TEST STATION
	MR101/C SHUTDOWN RELAY, SPDT W/RED
	A/V (WALL MOUNTED) 24 VDC
	STROBE
	BELL ANNUNCIATOR
	HORN/SPEAKER
	FIRE ALARM CONTROL PANEL
	FIREMAN'S PHONE
	AREA RESCUE CALL STATION
	AREA RESCUE MASTER STATION
	SIGNAL ZAM
	CONTROL ZAM
	DETECTOR ZAM
	MONITOR MODULE
	RELAY IAM
	GRAPHIC COMMAND CENTER
	REMOTE FIRE ALARM AUDIO
	REMOTE ANNUNCIATOR WITH AUDIO
	ANNUNCIATOR
	FIRE SMOKE DAMPER
	NAC POWER EXTENDER

* ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS

TELECOMMUNICATIONS LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	TELECOMMUNICATIONS OUTLET	1
	TELECOMMUNICATIONS OUTLET WALL PHONE PLATE	2
	AUDIO/VISUAL OUTLET	3
	EMT CONDUIT BY E/C (1 1/4" UNLESS NOTED OTHERWISE)	4
	EMT SLEEVE BY E/C (2" UNLESS NOTED OTHERWISE)	4
	DUPLEX RECEPTACLE	
	FOURPLEX RECEPTACLE	
	SURFACE PANELBOARD	
	WIRE BASKET RUNWAY	
	ABOVE FINISHED FLOOR	
	TELECOMMUNICATION CONTRACTOR	
	ELECTRICAL CONTRACTOR	
	GENERAL CONTRACTOR	
	DEVICE LOCATED ABOVE COUNTER	
	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	
	TELECOMMUNICATIONS GROUNDING BUSBAR	
	DISTRIBUTED ANTENNA SYSTEM	
	TELECOMMUNICATIONS CABLING	5
	TEMPERATURE CONTROL PANEL	
	FIRE ALARM CONTROL PANEL	
	SINGLEMODE FIBER	
	MULTIMODE FIBER	
	WIRELESS ACCESS POINT	6

VOICE | DATA | VIDEO TELECOM OUTLET # TELECOMMUNICATIONS CABLING IDENTIFIER

AUDIO/VISUAL LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	AUDIO/VISUAL OUTLET	1
	AUDIO/VISUAL FLOORBOX/POKE-THRU (REFER TO ELECTRICAL DRAWINGS)	
	TOUCH SCREEN CONTROL PANEL	
	OVERHEAD PROJECTOR	
	AUDIO/VISUAL SPEAKER	
	VOLUME CONTROL	
	MICROPHONE	
	EMT CONDUIT BY E/C (1 1/4" UNLESS NOTED OTHERWISE)	2
	EMT SLEEVE BY E/C (2" UNLESS NOTED OTHERWISE)	2
	DUPLEX RECEPTACLE	
	FOURPLEX RECEPTACLE	
	AUDIO/VISUAL CABLING	3
	ABOVE FINISHED FLOOR	
	AUDIO/VISUAL CONTRACTOR	
	TELECOMMUNICATION CONTRACTOR	
	ELECTRICAL CONTRACTOR	
	GENERAL CONTRACTOR	
	DEVICE LOCATED ABOVE COUNTER	
	SINGLEMODE FIBER	
	MULTIMODE FIBER	

1 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 WITH DOUBLE GANG PLASTER RING AND 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING BY E/C.
 2 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
 3 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.

SECURITY LEGEND		
	ACCESS CONTROL PANEL	
	ACCESS CONTROL PANEL POWER SUPPLY	
	HID CARD READER	
	REQUEST TO EXIT *	
	DOOR POSITION SWITCH *	
	ELECTRIC LOCK *	
	DOOR POWER SUPPLY *	
	PUSH BUTTON	
	MOTION DETECTOR	
	GLASS BREAKER SENSOR	
	ADA PUSH BUTTON *	
	DUAL ADA PUSH BUTTON *	
	ADA MOTORIZED OPERATOR *	
	VIDEO INTERCOM DOOR STATION	
	MASTER VIDEO INTERCOM STATION	
	BURGLAR/INTRUSION DETECTION PANEL	
	VIDEO SURVEILLANCE CAMERA	
	NETWORK VIDEO RECORDER	
	PAN/TILT/ZOOM	

* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING/POWER REQUIREMENTS.

PAGING LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	PAGING SYSTEM	
	CEILING PAGING SPEAKER	
	WALL-MOUNTED PAGING SPEAKER	
	PAGING HORN	
	VOLUME CONTROL	

1 - 4x4 BACKBOX W/ SINGLE GANG PLASTER RING AND 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AS INDICATED ON DRAWINGS BY E/C.
 2 - 2x4 BACKBOX WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
 3 - 4x4 STEEL CITY BACKBOX, MODEL NUMBER 72171-1-1/4 WITH DOUBLE GANG PLASTER RING BY E/C.
 4 - E/C TO PROVIDE CONDUIT BUSHING ON CONDUIT PRIOR TO T/C INSTALLING CABLING.
 5 - CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.
 6 - 2x4 SURFACE MOUNT BACKBOX LOCATED ABOVE ACCESSIBLE CEILING.

ALL SYMBOLS SHOWN MAY NOT APPEAR ON THIS PROJECT

MECHANICAL SPECIFICATIONS:		CODES, RULES AND REGULATIONS																			
<p>GENERAL PROVISIONS</p> <p>RELATED DOCUMENTS</p> <p>A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.</p> <p>CONTRACT DOCUMENTS</p> <p>A. ALL CONTRACT DOCUMENTS INCLUDING DRAWINGS, ALTERNATES, ADDENDA AND MODIFICATIONS PRECEDING THIS SPECIFICATION DIVISION ARE APPLICABLE TO MECHANICAL CONTRACTOR AND HIS SUB-CONTRACTORS, AND MATERIAL SUPPLIERS.</p> <p>SPECIFICATION FORM AND DEFINITIONS</p> <p>A. THESE SPECIFICATIONS ARE ABBREVIATED FORM AND CONTAIN INCOMPLETE SENTENCES, OMISSIONS OF WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "AS NOTED ON THE DRAWINGS," "ACCORDING TO THE DRAWINGS," "AT," "AN," "THE" AND "ALL" ARE INTENTIONAL. OMITTED WORDS AND PHRASES SHALL BE SUPPLIED BY INTERPRETATION.</p> <p>B. ENGINEER WHEREVER USED IN THESE SPECIFICATIONS, SHALL MEAN LATIMER, SOMMERS & ASSOCIATES, P.A., 3639 SW SUMMERFIELD DRIVE, SUITE A, TOPEKA, KANSAS 66614, PHONE 785_233_3232, FAX 785-233-0647.</p> <p>C. CONTRACTOR, WHEREVER USED IN THESE SPECIFICATIONS, SHALL MEAN ANY TRADE CONTRACTOR THAT ENTERS INTO CONTRACT WITH THE OWNER TO PERFORM THIS SECTION OF WORK.</p> <p>D. WHEN A WORD, SUCH AS "PROPER," "SATISFACTORY," "EQUIVALENT," AND "AS DIRECTED", IS USED, IT REQUIRES ENGINEER'S REVIEW.</p> <p>E. "PROVIDE" MEANS FURNISH AND INSTALL.</p> <p>QUALIFICATIONS</p> <p>A. THE CONTRACTOR(S) RESPONSIBLE FOR WORK UNDER THIS SECTION SHALL HAVE COMPLETED A JOB OF SIMILAR SCOPE AND MAGNITUDE WITHIN THE LAST 3 YEARS AND BE ABLE TO DOCUMENT SUCH WORK UPON REQUEST. THE CONTRACTOR(S) SHALL EMPLOY AN EXPERIENCED, COMPETENT AND ADEQUATE WORK FORCE LICENSED IN THEIR SPECIFIC TRADE AND PROPERLY SUPERVISED AT ALL TIMES. MECHANICAL CONTRACTING SHALL BE THE COMPANY'S PRIMARY NATURE OF BUSINESS. UNLICENSED WORKERS AND GENERAL LABORERS SHALL BE ADEQUATELY SUPERVISED TO INSURE COMPETENT AND QUALITY WORK AND WORKMANSHIP REQUIRED BY THIS CONTRACT AND ALL OTHER REGULATIONS, CODES AND PRACTICES. AT ALL TIMES THE CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL, GUIDELINES, PRACTICES AND REGULATIONS. CONTRACTOR MAY BE REQUIRED TO SUBMIT A STATEMENT OF QUALIFICATIONS, PERTAINING TO THE TYPE OF WORK TO BE PERFORMED, UPON REQUEST BEFORE ANY FINAL APPROVAL AND SELECTION. FAILURE TO BE ABLE TO COMPLY WITH THESE REQUIREMENTS IS SUITABLE REASON FOR REJECTION OF A BID WHETHER ACTING AS A PRIME OR SUBCONTRACTOR.</p> <p>LOCAL CONDITIONS</p> <p>A. VISIT SITE AND DETERMINE EXISTING LOCAL CONDITIONS AFFECTING WORK IN CONTRACT. FAILURE TO DETERMINE SITE CONDITIONS OR NATURE OF EXISTING OR NEW CONSTRUCTION WILL NOT BE CONSIDERED A BASIS FOR GRANTING ADDITIONAL COMPENSATION.</p> <p>CONTRACT CHANGES</p> <p>A. CHANGES OR DEVIATIONS FROM CONTRACT, INCLUDING THOSE FOR EXTRA OR ADDITIONAL WORK MUST BE SUBMITTED IN WRITING FOR REVIEW OF ARCHITECT/ENGINEER. NO VERBAL ORDERS WILL BE RECOGNIZED.</p> <p>LOCATIONS AND INTERFERENCES</p> <p>A. LOCATIONS OF EQUIPMENT, PIPING AND OTHER MECHANICAL WORK IS INDICATE DIAGRAMMATICALLY BY MECHANICAL DRAWINGS. DETERMINE EXACT LOCATIONS ON JOB, SUBJECT TO STRUCTURAL CONDITIONS, WORK OF OTHER CONTRACTORS, ACCESS REQUIREMENTS FOR INSTALLATION AND MAINTENANCE TO APPROVAL OF ARCHITECT/ENGINEER.</p> <p>B. STUDY AND BECOME FAMILIAR WITH THE CONTRACT DRAWINGS OF OTHER TRADES AND IN PARTICULAR THE GENERAL CONSTRUCTION PLANS AND DETAILS IN ORDER TO OBTAIN NECESSARY INFORMATION FOR FOURING INSTALLATION. COOPERATE WITH OTHER WORKMEN AND INSTALL WORK IN SUCH A WAY AS TO AVOID INTERFERENCE WITH THEIR WORK. MINOR DEVIATIONS, NOT AFFECTING DESIGN CHARACTERISTICS, PERFORMANCE OR SPACE LIMITATION MAY BE PERMITTED IF REVIEWED PRIOR TO INSTALLATION BY ARCHITECT/ENGINEER.</p> <p>C. ANY PIPE, APPARATUS, APPLIANCE OR OTHER ITEM INTERFERING WITH PROPER PLACEMENT OF OTHER WORK AS INDICATED ON DRAWINGS, SPECIFIED, OR REQUIRED, SHALL BE REMOVED AND IF SO SHOWN, RELOCATED AND RECONNECTED WITHOUT EXTRA COST. DAMAGE TO OTHER WORK CAUSED BY THIS CONTRACTOR, THE SUBCONTRACTOR, OR WORKERS SHALL BE RESTORED AS SPECIFIED FOR NEW WORK.</p> <p>D. DO NOT SCALE MECHANICAL AND ELECTRICAL DRAWINGS FOR DIMENSIONS. ACCURATELY LAY-OUT WORK FROM DIMENSIONS INDICED ON ARCHITECTURAL DRAWINGS UNLESS SUCH BE FOUND IN ERROR.</p> <p>FINAL CONSTRUCTION REVIEW</p> <p>A. AT FINAL CONSTRUCTION REVIEW, EACH RESPECTIVE CONTRACTOR AND MAJOR SUBCONTRACTORS SHALL BE PRESENT OR SHALL BE REPRESENTED BY A PERSON OF AUTHORITY. EACH CONTRACTOR SHALL DEMONSTRATE, AS DIRECTED BY ARCHITECT/ENGINEER, THAT WORK COMPLES WITH PURPOSE AND INTENT OF PLANS AND SPECIFICATIONS. RESPECTIVE CONTRACTOR SHALL PROVIDE LABOR, SERVICES, INSTRUMENTS OR TOOLS NECESSARY FOR SUCH DEMONSTRATIONS AND TESTS.</p> <p>EXTENT OF CONTRACT WORK AND CODES - MECHANICAL</p> <p>A. PROVIDE MECHANICAL SYSTEMS INDICATED ON DRAWINGS, SPECIFIED OR REASONABLY IMPLIED. PROVIDE EVERY DEVICE AND ACCESSORY NECESSARY FOR PROPER OPERATION AND COMPLETION OF MECHANICAL SYSTEMS. IN NO CASE WILL CLAIMS FOR "EXTRA WORK" BE ALLOWED FOR WORK ABOUT WHICH CONTRACTOR COULD HAVE BEEN INFORMED BEFORE BIDS WERE TAKEN.</p> <p>B. CONTRACTOR SHALL BECOME FAMILIAR WITH EQUIPMENT PROVIDED BY OTHER CONTRACTORS WHICH REQUIRE MECHANICAL CONNECTIONS AND CONTROLS.</p> <p>C. ELECTRICAL WORK REQUIRED TO INSTALL AND CONTROL MECHANICAL EQUIPMENT WHICH IS NOT SHOWN ON PLANS OR SPECIFIED UNDER DIVISION 26 SHALL BE INCLUDED IN CONTRACTOR'S BASIC BID PROPOSAL.</p> <p>D. THE COST OF LARGER WIRING, CONDUIT, CONTROL AND PROTECTIVE DEVICES RESULTING FROM INSTALLATION OF EQUIPMENT WHICH WAS NOT USED FOR BASIS OF DESIGN AS OUTLINED IN SPECIFICATIONS SHALL BE PAID FOR BY MECHANICAL CONTRACTOR AT NO COST TO OWNER OR ARCHITECT/ENGINEER.</p> <p>E. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPERVISION TO ELECTRICAL CONTRACTOR TO INSURE THAT REQUIRED CONNECTIONS, INTERLOCKING AND INTERCONNECTION OF MECHANICAL AND ELECTRICAL EQUIPMENT ARE MADE TO ATTAIN INTENDED CONTROL SEQUENCES AND SYSTEM OPERATION.</p> <p>F. FURNISH FOUR COMPLETE SETS OF ELECTRICAL WIRING DIAGRAMS TO ARCHITECT/ENGINEER TO BE INCLUDED IN THE MAINTENANCE MANUALS AND THREE COMPLETE SETS TO ELECTRICAL CONTRACTOR. DIAGRAMS SHALL SHOW FACTORY AND FIELD WIRING OF COMPONENTS AND CONTROLS. CONTROL DEVICES AND FIELD WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR SHALL BE CLEARLY INDICATED BY NOTATION AND DRAWING SYMBOLS ON WIRING DIAGRAMS.</p> <p>G. CONTRACTOR SHALL OBTAIN COMPLETE ELECTRICAL DATA ON MECHANICAL SHOP DRAWINGS AND SHALL LIST THIS DATA ON AN APPROVED FORM WHICH SHALL BE PRESENTED MONTHLY OR ON REQUEST, TO ELECTRICAL CONTRACTOR. DATA SHALL BE COMPLETE WITH WIRING DIAGRAMS RECEIVED TO DATE AND SHALL CONTAIN NECESSARY DATA ON ELECTRICAL COMPONENTS OF MECHANICAL EQUIPMENT SUCH AS HP, VOLTAGE, AMPERES, WATTS, LOCKED ROTOR CURRENT TO ALLOW ELECTRICAL CONTRACTOR TO ORDER ELECTRICAL EQUIPMENT REQUIRED IN HIS CONTRACT.</p>	<p>INTERNATIONAL CODES:</p> <p>REFER TO CODE PLAN SHEET FOR BUILDING CODES AND ADDITIONAL APPLICABLE CODES.</p> <p>SAFETY CODES:</p> <p>NATIONAL ELECTRICAL SAFETY CODE HANDBOOK H30 - NATIONAL BUREAU OF STANDARDS.</p> <p>OCCUPATIONAL SAFETY AND HEALTH STANDARD (OSHA) - DEPARTMENT OF LABOR.</p> <p>NATIONAL FIRE CODES:</p> <p>NFPA NO. 70 NATIONAL ELECTRICAL CODE</p> <p>NFPA NO. 90A AIR CONDITIONING AND VENTILATING SYSTEMS</p> <p>NFPA NO. 91 BLOWER & EXHAUST SYSTEM</p> <p>NFPA NO. 101 LIFE SAFETY CODE</p> <p>UNDERWRITERS LABORATORIES INC.:</p> <p>ALL MATERIALS, EQUIPMENT AND COMPONENT PARTS OF EQUIPMENT SHALL BEAR UL LABELS WHENEVER SUCH DEVICES ARE LISTED BY UL.</p> <p>MISCELLANEOUS CODES:</p> <p>ANSI 1111.1 - HANDICAPPED ACCESSIBILITY</p> <p>KANSAS MAXIMUM LIGHTING STANDARDS</p> <p>KANSAS THERMAL STANDARDS</p> <p>ASHRAE 90-1-2010</p> <p>AMERICANS WITH DISABILITIES ACT (ADA)</p> <p>C. DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM CONSTRUCTION STANDARD. SHOULD ANY WORK INDICATED BE SUB STANDARD TO ANY ORDINANCES, LAWS, CODES, RULES OR REGULATIONS BEARING ON WORK, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT/ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK SO THAT NECESSARY CHANGES CAN BE MADE. HOWEVER, IF CONTRACTOR PROCEEDS WITH WORK KNOWING IT TO BE CONTRARY TO ANY ORDINANCES, LAWS, RULES, AND REGULATIONS, CONTRACTOR SHALL THEREBY HAVE ASSUMED FULL RESPONSIBILITY FOR AND SHALL BEAR ALL COSTS REQUIRED TO CORRECT NON-COMPLYING WORK.</p> <p>D. CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES OR REGULATIONS. KEEP A WRITTEN RECORD OF ALL PERMITS AND INSPECTION CERTIFICATES AND SUBMIT TWO COPIES TO ARCHITECT/ENGINEER WITH REQUEST FOR FINAL INSPECTION.</p> <p>E. CONTRACTOR SHALL INCLUDE IN BID ANY CHARGES BY LOCAL UTILITY PROVIDERS TO ESTABLISH NEW SERVICES TO THE STRUCTURE. CONTRACTOR SHALL THE UTILITY SUPPLIERS TO VERIFY EXACT WHICH PART OF THE WORK IS TO BE PERFORMED BY WHOM.</p> <p>TESTING & BALANCING</p> <p>GENERAL</p> <p>A. TESTING AND BALANCING OF THE BUILDING AIR WILL BE TO BE COMPLETED NEAR THE END OF CONSTRUCTION. THE MECHANICAL CONTRACTOR HAS RESPONSIBILITY TO COOPERATE WITH, MAKE ADJUSTMENTS FOR, AND PROVIDE ANY EQUIPMENT NECESSARY FOR THE TAB AGENCY TO COMPLETE THE JOB.</p> <p>B. ACCEPTABLE NEBB TESTING AND BALANCING FIRMS:</p> <p>ENERGY MANAGEMENT AND CONTROL CORPORATION, TOPEKA, KANSAS</p> <p>BES, KANSAS CITY, MISSOURI</p> <p>ENVIRONMENTAL SYSTEMS TESTING, LENEXA, KANSAS</p> <p>ALLIED LABORATORIES, TOPEKA, KANSAS</p> <p>C. SUBMITTAL: TESTING AND BALANCING FIRM SHALL SUBMIT THEIR LATEST QUALIFICATIONS STATEMENT INDICATING ACTIVE NEBB CERTIFICATIONS FOR REVIEW AND APPROVAL BY ENGINEER.</p> <p>AIR BALANCE</p> <p>A. THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS, TO BALANCE, ADJUST, AND TEST AIR MOVING EQUIPMENT AND AIR DISTRIBUTION AND EXHAUST SYSTEMS. ALL WORK BY THIS AGENCY SHALL BE DONE UNDER ENGINEER EMPLOYED BY THEM. ALL INSTRUMENTS USED BY THIS AGENCY SHALL BE ACCURATELY CALIBRATED AND MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED THE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE A/E RESPONSIBLE FOR THE PROJECT AND/OR HIS REPRESENTATIVE. THE TESTING AND BALANCING FIRM SHALL BE CERTIFIED BY NEBB OR AABC AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE ORGANIZATIONS' PUBLISHED PROCEDURE MANUALS.</p> <p>B. AIR BALANCE AND TESTING SHALL NOT BEGUN UNTIL SYSTEMS HAVE BEEN COMPLETED AND ARE IN FULL WORKING ORDER. ALL HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS AND EQUIPMENT SHALL BE IN FULL OPERATION DURING EACH WORKING DAY OF TESTING AND BALANCING.</p> <p>C. THE CONTROL MANUFACTURER OR HIS REPRESENTATIVE SHALL ASSIST THE TEST AND BALANCE AGENCY IN SETTING AUTOMATIC DAMPERS, VALVES, ETC., AS REQUIRED.</p> <p>D. THE BALANCING AGENCY SHALL PREPARE A CERTIFIED REPORT OF ALL TESTS PERFORMED. THE REPORT SHALL BE WRITTEN ON STANDARD FORMS PREPARED BY NEBB OR AABC OR FACSIMILES THEREOF. THE BALANCING AGENCY SHALL SUBMIT 3 COPIES OF THIS REPORT TO THE MECHANICAL CONTRACTOR WHO SHALL SUBMIT THEM TO THE A/E FOR REVIEW AND DISTRIBUTION.</p> <p>DUCTWORK INSULATION</p> <p>A. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF INTERIOR AND EXTERIOR DUCTWORK INSULATION AS SPECIFIED AND/OR DETAILED ON DRAWINGS. INSULATION TYPE AND THICKNESS FOR SPECIFIC DUCTWORK SYSTEMS SHALL BE AS LISTED IN INSULATION SCHEDULE IN THIS SECTION OF SPECIFICATION. PROVIDE INSULATION MATERIALS MANUFACTURED BY SCHÜLLER, KNAUF FIBERGLASS, CERTAIN/TEED, OR OWENS-CORNING FIBERGLASS.</p> <p>B. INSULATION AND APPLICATION ADHESIVES, EXCEPT WHERE SPECIFIED OTHERWISE, SHALL HAVE FIRE AND SMOKE HAZARD RATING AS TESTED BY ASTM E-84 PROCEDURE NOT EXCEEDING:</p> <table border="1"> <tr> <td>FLAME SPREAD</td> <td>25</td> </tr> <tr> <td>SMOKE DEVELOPED</td> <td>50</td> </tr> <tr> <td>FUEL CONTRIBUTED</td> <td>50</td> </tr> </table> <p>C. INSULATION SHALL MEET ASTM C411 PERFORMANCE TEST AND SHALL BE INSTALLED IN CONFORMANCE WITH NFPA STANDARD 90A.</p> <p>D. INSTALL INTERIOR DUCT LINER INSULATION CUT TO INSURE TIGHT FITTING CORNER, AND LONGITUDINAL JOINTS. APPLY LUTER TO SHEET METAL WITH 100% COVERAGE OF ADHESIVE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED APPLICATIONS RATE. COAT ALL EDGES OF LINER WITH ADHESIVE. PROVIDE MECHANICAL FASTENERS ON SURFACES 18" OR WIDER IN ADDITION TO LINER ADHESIVE WITH FASTENER CLIPS SET FLUSH WITH DUCT LINER SURFACE. PROVIDE FASTENERS AS FOLLOWS:</p> <ol style="list-style-type: none"> 1. LOW VELOCITY DUCTWORK (VELOCITIES LESS THAN 2000 FPM): PROVIDE FASTENERS WITHIN 3" OF LEADING EDGE OF EACH SECTION 12" O.C. AROUND JOINT PERIMETER AND 3" FROM LONGITUDINAL JOINTS 12" O.C. ELSEWHERE SPACE FASTENERS 18" O.C. EXCEPT NOT MORE THAN 6" FROM LONGITUDINAL JOINTS AND NOT 12" FROM CORNER BREAK. <p>E. PROVIDE ROUND SHEET METAL DUCTWORK WITH EXTERIOR THERMAL INSULATION OF TYPE AND THICKNESS LISTED IN INSULATION SCHEDULE. APPLY INSULATION WITH JOINTS TIGHTLY BUTTED TOGETHER WITH LONGITUDINAL AND END JOINT STRIPS SEALED WITH VAPOR BARRIER ADHESIVE. INSULATE FITTINGS WITH</p>	FLAME SPREAD	25	SMOKE DEVELOPED	50	FUEL CONTRIBUTED	50	<p>INSULATION THICKNESS EQUAL TO ADJOINING INSULATION WITH COVER OVERLAPPING 2" ONTO ADJACENT COVERING.</p> <p>F. ELIMINATE DUCTWORK INSULATION ON EXPOSED ROUND DUCTWORK UNLESS NOTED OTHERWISE IN DUCTWORK INSULATION SCHEDULE.</p> <p>G. DUCT INSULATION MATERIALS BY TYPE SHALL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1. TYPE 1-DIL: INTERNAL ACOUSTICAL AND THERMAL DUCT INSULATION FOR LOW AND HIGH VELOCITY DUCTWORK SHALL BE 2 LB. DENSITY FOR 1/2" THICK AND 1.5 LB. DENSITY FOR 1" THICK DUCT LINER WITH 1.0 @ 1000 FPM FRICTION COEFFICIENT AND 24 BTUH THERMAL CONDUCTIVITY AT 75 DEGREES MEAN TEMPERATURE. 2. TYPE 2-DEW: EXTERNAL THERMAL INSULATION FOR LOW, MEDIUM AND HIGH PRESSURE DUCT SHALL BE 1.0 LB. DENSITY STANDARD DUCT INSULATION TYPE IV WITH FOIL-SCRM-CRAFT FACING AND .27 BTUH THERMAL CONDUCTIVITY AT 75 DEGREES MEAN TEMPERATURE. 3. TYPE 3-DEW: EXTERNAL THERMAL INSULATION FOR LOW PRESSURE DUCTWORK. FIBERGLASS WITH .23 BTUH THERMAL CONDUCTIVITY AT 75OF MEAN TEMPERATURE AND FIRE RETARDANT POLYETHYLENE .003" THICK JACKET. INSULATION SHALL BE PREMANUFACTURED SLEEVE TYPE FOR INSTALLATION OVER ROUND LOW VELOCITY DUCTWORK. <p>H. SPECIFIC INSULATION MATERIALS AND INSTALLATION METHODS FOR DUCTWORK SYSTEMS SHALL BE AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>DUCT SYSTEM</th> <th>DUCT TYPE</th> <th>INSULATION THICKNESS</th> </tr> </thead> <tbody> <tr> <td>LOW PRESSURE RECTANGULAR SUPPLY & RETURN, EXHAUST AND RETURN AIR BOOTS</td> <td>1-DIL</td> <td>1-1/2"</td> </tr> <tr> <td>LOW PRESSURE ROUND DUCTWORK (<12")</td> <td>3-DEW OR 2-DEW</td> <td>1-1/2"</td> </tr> <tr> <td>LOW PRESSURE ROUND (>12")</td> <td>2-DEW</td> <td>1-1/2"</td> </tr> </tbody> </table> <p>DUCTWORK</p> <p>A. CONSTRUCT DUCTWORK AS DETAILED ON DRAWINGS AND AS DETAILED IN THE LATEST EDITION OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S ASSOCIATION (SMACNA) DUCT MANUAL. DETAILS SHOWN ON PROJECT PLANS SHALL INDICATE SPECIFIC CONSTRUCTION METHODS TO BE USED ON THIS PROJECT AND SHALL BE USED IN LIEU OF ANY ALTERNATE METHODS SHOWN IN SMACNA DUCT MANUAL.</p> <p>B. CONSTRUCT AND INSTALL DUCTWORK TO BE COMPLETELY FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. SUPPORT AND SECURELY ANCHOR DUCTWORK AND EQUIPMENT FROM STRUCTURAL FRAMING OF BUILDING. PROVIDE SUITABLE INTERMEDIATE METAL FRAMING WHERE REQUIRED BETWEEN BUILDING STRUCTURAL FRAMING.</p> <p>C. CONSTRUCT DUCTWORK IN ACCORDANCE WITH OPERATING STATIC PRESSURE RANGES. DUCTWORK PRESSURE CLASSIFICATIONS SHALL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1. LOW PRESSURE DUCTWORK: SYSTEM OPERATING STATIC PRESSURE 1.5" POSITIVE OR NEGATIVE W.G. OR LESS AND VELOCITIES LESS THAN 2500 FPM. <p>D. ALL METAL DUCTWORK SCHEDULED FOR INTERIOR THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. ADD 1" OR 2" IN HEIGHT AND WIDTH OF DUCTWORK AS REQUIRED TO ACCOMMODATE INSULATION THICKNESS. MOUNT SPECIALTIES SUCH AS TURNING VANES, CAMPERS, ETC., TO DUCTWORK WITH THAT SECTION INSULATED "BUILD OUTS" TO MAINTAIN CONTINUITY OF THERMAL BARRIER.</p> <p>E. CONSTRUCT LOW PRESSURE SYSTEM DUCTWORK TO CONFORM TO LATEST EDITION OF LOW PRESSURE DUCT CONSTRUCTION STANDARDS OF SMACNA DUCT MANUAL.</p> <p>F. CONSTRUCT MEDIUM AND HIGH PRESSURE SYSTEM DUCTWORK TO CONFORM TO LATEST EDITION OF HIGH PRESSURE DUCT CONSTRUCTION STANDARDS OF SMACNA DUCT MANUAL.</p> <p>G. PROVIDE SPIRAL WOUND DUCT ON ALL ROUND DUCTWORK GREATER THAN 10" DIA. PROVIDE LONGITUDINAL SEAM DUCT ON ALL ROUND DUCTWORK 10" DIA OR LESS.</p> <p>H. SEALING OF LOW AND HIGH PRESSURE DUCTWORK SHALL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1. OPTION #1: LOW PRESSURE DUCTWORK: INCLUDING SUPPLY, RETURN AND EXHAUST. PROVIDE HARD CAST, INC. MATERIAL IMPREGATED WOVEN FIBER TAPE AND ACTIVATOR/ADHESIVE IN ACCORDANCE WITH MANUFACTURERS' DIRECTIONS ON ALL JOINTS, CONNECTORS, ETC. 2. OPTION #2: LOW PRESSURE RECTANGULAR DUCTWORK: PROVIDE "DUCTMAATE" SYSTEMS AS MANUFACTURED BY DUCTMAE INDUSTRIES, INC. OR AN APPROVED EQUAL SYSTEM. <p>RECTANGULAR STEEL DUCTWORK</p> <p>A. PROVIDE NEW COMMERCIAL QUALITY, BRIGHT SPANGLED GALVANIZED SHEET STEEL MANUFACTURED IN THE U.S.A.</p> <p>INSTALLATION</p> <p>A. ALL DUCTWORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".</p> <p>B. EXPOSED DUCTWORK SHALL BE PAINTED UNLESS NOTED OTHERWISE.</p> <p>DUCTWORK ACCESSORIES</p> <p>SHEET METAL SPECIALTIES</p> <p>A. SPECIALTIES SHALL BE FACTORY FABRICATED ITEMS DESIGNED FOR LOW, MEDIUM OR HIGH VELOCITY SYSTEMS AS REQUIRED. SUBMIT SHOP DRAWINGS ON ALL SPECIALTIES REQUIRED WITH SHOP DRAWINGS OF DUCTWORK LAYOUT. SPECIALTIES SHALL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1. TURNING VANES: HIGH PRESSURE AERO/DYNE OR EQUAL 26 GAUGE H-S-P HIGH EFFICIENCY PROFILE AIR FOLG VANES MOUNTED 2-1/8" ON CENTER ON 24 GAUGE RUNNERS. AIR TURNS BY BARBER-COLEMAN WILL BE ACCEPTABLE ON LOW PRESSURE ONLY. NOTE: TURNING VANES TO BE PROVIDED ON ALL SUPPLY, RETURN AND EXHAUST DUCTS. 2. EXTRACTORS (LOW VELOCITY): CARNES #1250 ALL ALUMINUM AIR VOLUME EXTRACTOR. UNIT SHALL BE ADJUSTABLE FROM FULL OPEN TO FULL CLOSED POSITION. PROVIDE CHANNEL SUPPORTS WHERE RECOMMENDED BY MANUFACTURER (LENGTH OVER 16", HEIGHT OVER 8"). PROVIDE YOUNG END BEARINGS AND ROD WITH REGULATOR AS HEREINAFTER SPECIFIED, EQUIVALENT BY PRICE. 3. DAMPERS: PROVIDE 24 GAUGE MINIMUM GALVANIZED METAL BLADES SUPPORTED ON DUCT WITH METAL SUPPORTS AND LOCKED IN POSITION WITH LOCKING TYPE DAMPER ARM BY CARNES, GREENHECK, AIR BALANCE, LOUVERS & DAMPERS, FAP, POTTSBFF AND CESCO. 4. BACKDRAFT DAMPERS: UNLESS BACKDRAFT DAMPERS ARE SPECIFIED WITH A PARTICULAR PIECE OF EQUIPMENT, PROVIDE CESCO #BDA OR EQUAL WITH 16 GAUGE ALUMINUM BLADE WITH OILED BEARINGS MOUNTED IN STEEL FRAME. BLADES SHALL BE BALANCED AND CONNECTED WITH TIE BAR. PROVIDE END SEALS AND BLADE SEALS. EQUIVALENT BY RUSKIN, GREENHECK, AIR BALANCE, AIR STREAM, TITUS, LOUVERS & DAMPERS, FAP, POTTSBFF AND CESCO. 5. BACKDRAFT DAMPERS: WHERE BACKDRAFT DAMPERS ARE SHOWN ON PLANS INSTALLED BEHIND WALL LOUVERS OR ROOF RELIEF VENTS, PROVIDE CESCO #BDA-101-LH HEAVY DUTY CONSTRUCTION COUNTER BALANCED TO ASSIST AIR FLOW COMPLETE WITH END SEALS AND BLADE SEALS. EQUIVALENT BY RUSKIN, GREENHECK, AIR BALANCE, AIR STREAM OR TITUS, LOUVERS & DAMPERS, FAP. 6. FLEXIBLE CONNECTIONS: METELEXE VENTIGLAS PREFABRICATED FLEXIBLE CONNECTIONS OF 3, 1/4" WIDE HEAT AND FIRE RESISTANT NEOPRENE COATED GLASS FABRIC WITH TWO 3" WIDE 24 GAUGE METAL STRIPS ATTACHED TO EACH EDGE. VENT FABRICS, INC., DURO-DYNE CORP. OR EQUAL. 7. ACCESS DOORS: PROVIDE ACCESS DOORS IN DUCTWORK CEILING, WALLS, OR FLOORS FOR ACCESS TO DUCTWORK VALVES, CONTROLS, PIPING ETC. INSTALLED UNDER THIS CONTRACT. DOORS AND FRAME 	DUCT SYSTEM	DUCT TYPE	INSULATION THICKNESS	LOW PRESSURE RECTANGULAR SUPPLY & RETURN, EXHAUST AND RETURN AIR BOOTS	1-DIL	1-1/2"	LOW PRESSURE ROUND DUCTWORK (<12")	3-DEW OR 2-DEW	1-1/2"	LOW PRESSURE ROUND (>12")	2-DEW	1-1/2"	<p>SHALL BE FORMED OF NOT LIGHTER THAN USS #14 GAUGE AND #16 GAUGE STEEL, RESPECTIVELY. HINGES SHALL BE CONCEALED LOOSE PIN SPRING TYPE. LOCKS SHALL BE FLUSH, SCREWDRIVER, CAME ACTION TYPE. DOORS AND FRAMES SHALL BE FURNISHED IN PRIME COAT OF REGONS, NALOR, DOWNEY OR EQUAL.</p> <p>8. ROUND TAKE-OFF FITTINGS: ROUND TAKE-OFF FITTINGS TO MEDIUM AND HIGH PRESSURE RECTANGULAR DUCTWORK IN SIZES 12" AND LARGER SHALL BE MADE WITH MESCO BELL MOUTH FITTINGS OR APPROVED EQUAL. FACTORY FABRICATED 90 DEGREE CONICAL TEES OR 45 DEGREE TEES WITH 1/2" FLANGE ACCEPTABLE.</p> <p>9. ROUND TAKE-OFF FITTINGS: ROUND TAKE-OFF FITTINGS FROM SUPPLY DIFFUSERS OR REGISTERS TO LOW PRESSURE SUPPLY DUCTWORK SHALL BE FLEXMASTER #FJDE COMPLETE WITH LOCKING DAMPER AND AIR SCOOP. EQUIVALENT BY ATCO, AIR CONTROL PRODUCTS.</p> <p>10. SMOKE DAMPERS: PREFECO MODEL #5020 MOTORIZED FIRE/SMOKE DAMPER. POWER OPEN, LOCKED AND RESET, SPRING CLOSED. EQUIVALENT BY RUSKIN, NALOR, GREENHECK, AIR BALANCE.</p> <p>11. LOW PRESSURE FLEXIBLE DUCT: THERMAFLEX GK-M RATED FOR +6" W.G. MAX AND -1" W.G. MAX FOR DUCT SIZES 4" TO 14", +6" W.G. MAX AND -0.5" W.G. MAX FOR DUCT SIZES 14" TO 16", +4" W.G. MAX AND -0.5" W.G. MAX FOR DUCT SIZES 18" TO 20". RATED FOR 3500 FPM MAXIMUM VELOCITY. UL LISTED "UL-181 STANDARDS CLASS I DUCT MATERIAL" COMPLYING WITH NFPA STANDARDS 90A AND 90B. DUCT SHALL BE COMPOSED OF AN ACOUSTICALLY RATED INNER POLYMERIC LINER DUCT BONDED TO COATED STEEL WIRE HELIX FIBERGLASS INSULATION AND TEAR RESISTANT METALIZED POLYESTER FILM OUTER VAPOR BARRIER. EQUIVALENT BY WIREMOLD, CLEANWELX, FLEXMASTER.</p> <p>12. FIRE DAMPERS: PREFECO "LPH" LOW PROFILE 1 1/2 HR RATED, STACKED BLADE DESIGN FOR MINIMUM REDUCTION OF CROSS SECTIONAL AREA OF PENETRATIONS AND EXITS. 165 DEGREE FUSIBLE LINK. EQUIVALENT BY NALOR, GREENHECK, RUSKIN, AIR BALANCE.</p> <p>INSTALLATION</p> <p>A. ALL DUCTWORK ACCESSORIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS SMACNA, NFPA 90A AND 90B, UL LISTINGS AND DRAWING DETAILS.</p> <p>GRILLES, REGISTERS AND DIFFUSERS</p> <p>PROVIDE WHERE SHOWN ON PLANS GRILLES, REGISTERS, AND DIFFUSERS. REFER TO SCHEDULE ON PLANS.</p> <p>GRILLES, REGISTERS AND DIFFUSERS</p> <p>A. PROVIDE GRILLES, REGISTERS AND DIFFUSERS AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. SET ALL UNITS WITH RUBBER GASKETS FOR AIR TIGHT CONNECTION WITH MOUNTING SURFACE. SEE DRAWINGS FOR TYPES, SIZES, AIR FLOW AND QUANTITY.</p> <p>B. INSTALL ALL REGISTERS WITH CURVE OF LOUVER AWAY FROM LINE OF SIGHT. UNLESS NOTED OTHERWISE, PROVIDE DUCT MOUNTED DIFFUSERS AND REGISTERS WITH STANDARD MARGINS. FINISH SHALL BE OFF WHITE WHEN MOUNTED IN CEILING, PRIME COAT WHEN MOUNTED ON WALL FINISH.</p> <p>C. PROVIDE PROPER MOUNTING SUPPLIES AND ARRANGEMENTS FOR AREAS SHOWN. CHECK ARCHITECTURAL DRAWINGS FOR CEILING AND ALL CONSTRUCTION.</p> <p>D. EQUIVALENT BY TITUS, E.H. PRICE, KRUEGER, LOUVERS AND DAMPERS, GREENHECK.</p> <p>INSTALLATION</p> <p>A. GRILLES, REGISTERS AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS, WHERE BALANCING DAMPERS ARE NOT PROVIDED IN DUCT WORK PRECEDING DIFFUSERS, PROVIDE OPPOSED BLADE BALANCING DAMPER IN NECK OF DIFFUSER.</p> <p>PLUMBING</p> <p>A. PROVIDE BRONZE FULL PORT BALL VALVES WITH TEFLON SEATS, BRONZE BALL, AND INSULATED HANDLE FOR ALL DOMESTIC WATER SHUT-OFF VALVES.</p> <p>B. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN THEY PASS THROUGH WALL OR CEILING OF FINISHED ROOMS.</p> <p>C. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC ABOVE AND BELOW GRADE. PVC PIPE NOT ALLOWED IN RETURN AIR PLENUM. PROVIDE NO HUB CAST IRON ABOVE GRADE ABOVE KITCHEN VESTIBULE CEILINGNS CONSIDERED AS A RETURN AIR PLENUM OR PROVIDE INSULATION AROUND PVC PIPING WITH FLAME AND SMOKE RATING PER CODE.</p> <p>D. ALL DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER PIPING WITH 1" INSULATION WITH ASJ.</p> <p>E. NEW SOIL AND WASTE PIPE SHALL BE PRESSURE TESTED TO 10 PSI. THIS TEST SHALL REMAIN 12 HOURS. NEW WATER PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 130 PSI. WHILE THESE PRESSURES ARE BEING MAINTAINED, A THOROUGH INSPECTION WILL BE MADE AND ANY PART SHOWING LEAKS OF DEFECTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.</p> <p>F. ALL PIPING MUST BE CONCEALED AND SUPPORTED PROPERLY FROM STRUCTURE. PIPE SLEEVES, HANGERS AND SUPPORTS SHALL BE FURNISHED AND SET, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR PROPER AND PERMANENT LOCATIONS. PIPE SHALL NOT BE PERMITTED TO PASS THROUGH FOOTINGS OR BEAMS, EXCEPT WHERE NOTED ON DRAWINGS. PIPE SLEEVES IN OUTSIDE WALLS AND BEARING WALLS SHALL BE WROUGHT IRON PIPE.</p> <p>G. PROVIDE PLUMBING FIXTURES, AS SHOWN ON DRAWINGS AND AS SPECIFIED, COMPLETE INCLUDING PIPING AND CONNECTIONS.</p> <p>H. ALL WALL-MOUNTED FIXTURES SHALL BE FURNISHED WITH CONCEALED ARM CARRIERS. SET FIXTURES TRUE AND LEVEL WITH ALL NECESSARY SUPPORTS FOR FIXTURES INSTALLED BEFORE PLASTERING IS DONE. NIPPLES THROUGH WALL TO FIXTURE CONNECTIONS SHALL BE CHROME-PLATED BRASS. PROVIDE SILICONE SEALER AROUND PERIMETER OF LAVATORIES AND AT CONNECTION TO WALL AND FLOOR. ALL FIXTURES SHALL BE CLEANED AND FREE OF ALL CONSTRUCTION DEBRIS. ANY CHROME TRIM WITH WRENCH MARKS SHALL BE REMOVED AND NEW TRIM INSTALLED.</p> <p>I. INSULATE ALL EXPOSED HOT, COLD AND WASTE PIPING ASSOCIATED WITH LAVATORIES AND SINKS WITH FACTORY FABRICATED MATERIALS WHERE REQUIRED BY ADA.</p>
FLAME SPREAD	25																				
SMOKE DEVELOPED	50																				
FUEL CONTRIBUTED	50																				
DUCT SYSTEM	DUCT TYPE	INSULATION THICKNESS																			
LOW PRESSURE RECTANGULAR SUPPLY & RETURN, EXHAUST AND RETURN AIR BOOTS	1-DIL	1-1/2"																			
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4-15-24

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Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsefield Rd., Marquette, KS 67464
BUILDING NUMBER 71000-27677
REV. JWJ
DATE: 9/30/2024 DRAWN BY: CAD

ELECTRICAL SPECIFICATIONS:

EXTENT OF CONTRACT WORK AND CODES - ELECTRICAL

A. PROVIDE ELECTRICAL SYSTEMS INDICATED ON DRAWINGS, SPECIFIED OR REASONABLY IMPLIED. PROVIDE EVERY DEVICE AND ACCESSORY NECESSARY FOR PROPER OPERATION AND COMPLETION OF ELECTRICAL SYSTEMS. IN NO CASE WILL CLAIMS FOR "EXTRA WORK" BE ALLOWED FOR WORK ABOUT WHICH ELECTRICAL CONTRACTOR COULD HAVE BEEN INFORMED BEFORE BIDS WERE TAKEN.

B. ELECTRICAL CONTRACTOR SHALL BE FAMILIAR WITH EQUIPMENT PROVIDED BY OTHER CONTRACTORS WHICH REQUIRE ELECTRICAL CONNECTIONS AND CONTROL. FOLLOW CIRCUITING SHOWN ON DRAWINGS FOR LIGHTING, POWER AND EQUIPMENT CONNECTIONS.

C. MAKE REQUIRED ELECTRICAL CONNECTIONS TO EQUIPMENT PROVIDED UNDER ARCHITECTURAL AND MECHANICAL DIVISIONS OF THIS PROJECT. RECEIVE AND INSTALL ELECTRIC CONTROL DEVICES REQUIRING FIELD INSTALLATION, WIRING, AND SERVICE CONNECTION. EQUIPMENT SUPPLIED BY THE AUTOMATIC TEMPERATURE CONTROL CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL OR AUTOMATIC TEMPERATURE CONTROL SUBCONTRACTOR. MAKE REQUIRED INTERNAL FIELD WIRING MODIFICATIONS INDICATED ON WIRING DIAGRAMS OF FACTORY INSTALLED CONTROL SYSTEMS FOR CONTROL SEQUENCE SPECIFIED. THESE FIELD MODIFICATIONS SHALL BE LIMITED TO JUMPER CONNECTIONS AND CONNECTION OF INTERNAL WIRING TO ALTERNATE TERMINAL BLOCK LUGS. THE COST FOR FIELD MODIFICATIONS REQUIRING REWIRING OF FACTORY INSTALLED CONTROL SYSTEMS PROVIDED BY GENERAL OR MECHANICAL CONTRACTORS SHALL BE INCLUDED IN BASE BID OF THE RESPECTIVE CONTRACTOR. ALL TEMPERATURE CONTROL WIRING SHALL BE BY A LICENSED ELECTRICIAN UNDER THE SUPERVISION OF TEMPERATURE CONTROL CONTRACTOR.

D. CHECK ELECTRICAL DATA AND WIRING DIAGRAMS RECEIVED FROM MECHANICAL CONTRACTOR OF COMPLIANCE WITH PROJECT VOLTAGES, WIRING, CONTROLS AND PROTECTIVE DEVICES SHOWN ON ELECTRICAL DRAWINGS. PROMPTLY BRING DISCREPANCIES FOUND TO ATTENTION OF ARCHITECT/ENGINEER FOR A DECISION.

E. PROVIDE SAFETY DISCONNECT SWITCHES, CONTACTORS, AND MANUAL AND MAGNETIC MOTOR STARTERS FOR MECHANICAL AND ELECTRICAL EQUIPMENT REQUIRING SUCH DEVICES. OMT THESE DEVICES WHERE INCLUDED AS PART OF FACTORY INSTALLED PREWIRED CONTROL SYSTEMS PROVIDED WITH MECHANICAL EQUIPMENT. WITH EXCEPTION OF FACTORY INSTALLED DEVICES, PROVIDE SAFETY DISCONNECT SWITCHES, CONTACTS AND MOTOR STARTERS BY ONE MANUFACTURER TO ALLOW MAXIMUM INTERCHANGEABILITY OF REPAIR PARTS AND ACCESSORIES FOR THESE DEVICES.

F. TO MAXIMUM EXTENT POSSIBLE ELECTRICAL CONTROLS IN BOILER ROOMS, EQUIPMENT ROOMS, AND CONTROL ROOMS SHALL BE GROUPED IN ACCESSIBLE LOCATIONS AND ARRANGED ACCORDING TO FUNCTION, WHERE POSSIBLE USE GROUP CONTROL PANELS AND COMBINATION STARTERS IN LEVY OF INDIVIDUALLY ENCLOSED DEVICES.

CODES, ORDINANCES, RULES AND REGULATIONS

A. PROVIDE WORK IN ACCORDANCE WITH APPLICABLE RULES, CODES, ORDINANCES AND REGULATIONS OF LOCAL, STATE, FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.

B. CONFORM TO LATEST EDITIONS AND SUPPLEMENTS OF FOLLOWING CODES, STANDARDS OR RECOMMENDED PRACTICES.

SAFETY CODES:
NATIONAL ELECTRICAL SAFETY CODE HANDBOOK H30 - NATIONAL BUREAU OF STANDARDS
OCCUPATIONAL SAFETY AND HEALTH STANDARD (OSHA) DEPARTMENT OF LABOR
SAFETY CODE FOR ELEVATORS ANSI A17.1

NATIONAL FIRE CODES:
NFPA NO. 70 NATIONAL ELECTRIC CODE
NFPA NO. 90A AIR CONDITIONING & VENTILATION SYSTEMS
NFPA NO. 91 BLOWER AND EXHAUST SYSTEMS
NFPA NO. 101 LIFE SAFETY CODE

UNDERWRITERS LABORATORIES INC.:
ALL MATERIALS, EQUIPMENT AND COMPONENT PARTS OF EQUIPMENT SHALL BEAR UL LABELS WHENEVER SUCH DEVICES ARE LISTED BY UL.

MISCELLANEOUS CODES:
ANSI A117.1 - HANDICAPPED ACCESSIBILITY AMERICANS WITH DISABILITIES ACT (ADA)

C. DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM CONSTRUCTION STANDARD. SHOULD ANY WORK INDICATED BE SUB-STANDARD TO ANY ORDINANCES, LAWS, CODES, RULES OR REGULATIONS BEARING ON WORK, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT/ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK SO THAT NECESSARY CHANGES CAN BE MADE. HOWEVER, IF ELECTRICAL CONTRACTOR PROCEEDS WITH WORK KNOWING IT TO BE CONTRARY TO ANY ORDINANCES, LAWS, RULES, AND REGULATIONS HE SHALL THEREBY HAVE ASSUMED FULL RESPONSIBILITY FOR AND SHALL BEAR ALL COSTS REQUIRED TO CORRECT NON-COMPLYING WORK.

D. ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR NECESSARY PERMITS AND CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL ORDINANCES, LAWS, RULES OR REGULATIONS. KEEP A WRITTEN RECORD OF ALL PERMITS AND INSPECTION CERTIFICATES AND SUBMIT TWO COPIES TO ARCHITECT/ENGINEER WITH REQUEST FOR FINAL REVIEW.

E. CONTRACTOR SHALL INCLUDE IN BID ANY CHARGES BY LOCAL UTILITY PROVIDERS TO ESTABLISH NEW SERVICES TO THE STRUCTURE. COORDINATE WITH THE UTILITY SUPPLIERS TO VERIFY EXACT WHICH PART OF THE WORK IS TO BE PERFORMED BY WHOM.

BASIC MATERIALS AND METHODS - ELECTRICAL

IDENTIFICATION OF WIRING AND EQUIPMENT

A. PROVIDE IDENTIFICATION AND WARNING SIGNS TO WIRING AND EQUIPMENT AS LISTED IN SCHEDULE. SIGNS AND TAGS SHALL BE AS FOLLOWS:

TYPE 1: LAMINATED PHENOLIC PLASTIC WITH BLACK GOTHIC CONDENSED LETTERING BY SETON OR WILCO.

TYPE 2: SELF-STICKING 1/2" WIDE PLASTIC TAPE WITH HIGH GLOSS SURFACE AND EMBOSSED LETTERING BY BRADY OR DYMO.

TYPE 3: SELF-STICKING POLYESTER SIGN WITH WORDING AND SIZE CONFORMING TO ANSI STANDARD Z35.1-1964 AND OSHA 1910.144H(2) SPECIFICATIONS, BY BRADY OR AS APPROVED.

TYPE 4: SELF-STICKING FLEXIBLE VINYL WITH OIL RESISTANT ADHESIVE FOR -20 DEGREES TO 300 DEGREES F. TEMPERATURES BY BRADY OR AS APPROVED.

B. PROVIDE LIGHTING AND POWER PANELBOARDS WITH TYPE 1 SIGN MINIMUM OF 1-1/4" X 6" INDICATING PANEL DESIGNATION AND ELECTRICAL CHARACTERISTICS. MOUNT INSIDE OF PANEL DOOR ON CIRCUIT BREAKER TRIM FLANGE JUST BELOW BREAKERS.

C. PROVIDE DISCONNECT SWITCHES, MOTOR STARTERS AND CONTROLLERS WITH TYPE 1 SIGN 3/4" X 5" INDICATING EQUIPMENT SERVED AND BRADY NO. AE_46125 DANGER SIGN.

D. PROVIDE ELECTRICAL EQUIPMENT AND ACCESSIBLE WIRING ENCLOSURES OPERATING AT VOLTAGE ABOVE 240 VOLTS WITH TYPE 3 BRADY NO. AE_46125 WARNING SIGN AND BRADY STYLE B, 1-1/8" X 4-1/2" VOLTAGE MARKER APPLIED TO FRONT DOOR OR COVER OF DEVICE OR ENCLOSURE. PROVIDE LARGE EQUIPMENT SUCH AS TRANSFORMERS AND MAIN DISTRIBUTION EQUIPMENT WITH TYPE 3 SIGN BRADY NO. AE_46539.

E. PROVIDE FEEDERS AND BRANCH CIRCUIT HOME RUNS WITH TYPE 4 WIRE MARKER INDICATING CIRCUIT NUMBER AND POWER SOURCE. PROVIDE FEEDERS PHASE IDENTIFICATION LETTER AT EACH TERMINAL POINT IN ADDITION TO ITS CIRCUIT NUMBER.

F. PROVIDE TYPE 2 TAPE AT FEEDER TERMINAL LUGS TO SWITCHBOARDS AND PANELBOARDS. TAPE SHALL INDICATE CONDUIT SIZE, CONDUCTOR TYPE AND AWG SIZE. TAPE SHALL BE LOCATED TO BE EASILY READ WITH CONDUCTORS INSTALLED.

G. ALL WIRES FOR BRANCH CIRCUIT WORK SHALL BE COLOR CODED.

H. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED HOT, NEUTRAL, GROUND, COMMON NEUTRALS. SHALL NOT BE UTILIZED. ONE GROUNDING CONDUCTOR CAN BE PROVIDED FOR A MAXIMUM OF (3) SINGLE PHASE CIRCUITS, EACH ON A SEPARATE PANEL PHASE IN A COMMON CONDUIT.

FIRESTOPPING PENETRATIONS IN FIRE-RATED WALL/FLOOR ASSEMBLIES

A. CONTRACTORS SHALL PROVIDE PROPER SIZING WHEN PROVIDING SLEEVES OR CORE-DRILLED HOLES TO ACCOMMODATE THEIR THROUGH PENETRATING ITEMS. ALL VOIDS BETWEEN SLEEVE OR CORE-DRILLED HOLE AND PIPE PASSING THROUGH, SHALL BE FIRESTOPPED TO MEET THE REQUIREMENTS OF ASTM E-81.

WIRES AND CABLES

CONDUCTORS

A. UNLESS NOTED OTHERWISE CONDUCTORS REFERRED TO ARE WIRES AND CABLE. PROVIDE CODE GRADE SOFT ANNEALED COPPER CONDUCTORS WITH SPECIFIED COLORED INSULATION TO CONFORM WITH COLOR CODING SPECIFIED. PROVIDE CONDUCTORS NO. 8 GAUGE AND LARGER STRANDED AND CONDUCTORS NO. 10 GAUGE AND SMALLER SHALL BE SOLID.

B. USE NO CONDUCTORS SMALLER THAN NO. 12 GAUGE UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY ENGINEER. SIZE WIRE FOR VOLT BRANCH CIRCUITS FOR 3% MAXIMUM VOLTAGE DROP. SIZE FEEDER CIRCUITS FOR 2% MAXIMUM VOLTAGE DROP. COMBINED VOLTAGE DROP OF FEEDERS AND BRANCH CIRCUITS SHALL NOT EXCEED 5% MAXIMUM.

C. PROVIDE CONDUCTORS FOR LISTED APPLICATIONS AS FOLLOWS:

- LIGHTING AND RECEPTACLE CIRCUITS: TYPE THHN, OR THHN/THN 600 VOLT, 75 DEGREES C (1670F) THERMOPLASTIC INSULATED BUILDING CONDUCTOR OR BETTER.
- LIGHTING AND RECEPTACLE CIRCUITS WITH NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER AND FEEDER CIRCUITS AND BUILDING SERVICE FEEDERS: TYPE THHN/THN 600 VOLTS, 75 DEGREES C (1670F) THERMOPLASTIC INSULATED BUILDING CONDUCTOR.

D. PROVIDE CONDUCTORS BY ESSEX, SOUTHWIRE, CERRO, GENERAL, ENCORE OR APPROVED EQUIVALENT.

CONDUCTOR INSTALLATION

A. RUN CONDUCTORS IN CONDUIT CONTINUOUS BETWEEN OUTLETS AND JUNCTION BOXES WITH NO SPLICES OR TAPS PULLED INTO CONDUITS.

B. NEATLY ROUTE, TIE AND SUPPORT CONDUCTORS TERMINATING AT SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, SOUND EQUIPMENT, ETC., WITH THOMAS & BETTS TY-RAP CABLE TIES AND CLAMPS OR EQUIVALENT BY ELECTROVERT OR PANDUIT.

C. MAKE CIRCUIT CONDUCTOR SPLICES WITH BUCHANAN CRIMPED_ON SOLDERLESS CONNECTORS AND SNAP-ON NYLON INSULATORS OR EQUIVALENT.

D. MAKE FIXTURE AND DEVICE TAPS WITH SCOTCHLOK SELF-STRIPPING ELECTRICAL TAP CONNECTORS.

E. TERMINATE SOLID CONDUCTORS AT EQUIPMENT TERMINAL STRIPS AND OTHER SIMILAR TERMINAL POINTS WITH INSULATED SOLDERLESS TERMINAL CONNECTORS. TERMINATE ALL STRANDED CONDUCTOR TERMINAL POINTS WITH INSULATED SOLDERLESS TERMINAL CONNECTORS. PROVIDE THOMAS & BETTS STA-KON INSULATED TERMINALS AND CONNECTORS OR EQUIVALENT BY API/AMP, BLACKBURN, BUCHANAN OR SCOTCHLOK "WIRE NUTS".

F. WHERE A TOTAL OF SIX OR MORE CONTROL AND FEEDER CONDUCTORS TERMINATE IN A MULTIPLE DEVICE PANEL OR ENCLOSURE THAT HAS NO BUILT-IN TERMINAL BLOCKS PROVIDE BUCHANAN 600 VOLT HEAVY DUTY TYPE HO SECTIONAL TERMINAL BLOCKS WITH MOUNTING CHANNEL AND NO. 23 SET_THRU COVERS. EQUIVALENT TERMINAL BLOCKS BY GENERAL ELECTRIC, SQUARE D OR WESTINGHOUSE.

G. WRAP CONDUCTOR TAPS AND CONNECTIONS REQUIRING ADDITIONAL INSULATION WITH A MINIMUM OF THREE OVERLAPPED LAYERS OF 3M SCOTCH VINYL PLASTIC ELECTRICAL TYPE NO. 88 OR EQUIVALENT.

H. INSTALL NO CONDUITS OR WIRING IN AIR DUCTS, EXCEPT THAT REQUIRED TO POWER DEVICES THAT DIRECTLY PERFORM WORK UPON AIR IN THE DUCTWORK.

CONDUCTOR COLOR CODING

A. PROVIDE CONTINUOUS COLOR FEEDERS, BRANCH AND CONTROL CIRCUITS. COLORED INSULATION SHALL BE SAME COLOR FOR LIKE CIRCUITS THROUGHOUT.

B. IDENTIFY THE SAME PHASE CONDUCTOR OF SAME VOLTAGE SYSTEM WITH SAME COLOR THROUGHOUT.

C. PROVIDE CONDUCTORS WITH COLOR CODING IN ACCORDANCE WITH NEC, WHERE THAT CODE IS APPLICABLE. IDENTIFY EACH CONDUCTOR WITH SAME COLOR. PROVIDE SAME COLORED CONDUCTORS WITH STRIPE TO INDICATE SYSTEM VOLTAGE.

FIRE BARRIER

A. PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND CABLES WITH NELSON "FLAMESEAL" FIRE STOP PUTTY WITH UL LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.

B. EQUIVALENT BY DOW, CHEMEX, 3M.

GROUNDING

A. SUPPLEMENT GROUNDING NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM WITH EQUIPMENT GROUNDING SYSTEM INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.

B. SYSTEM SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, MODIFIED AS INDICATED ON DRAWINGS AND AS SPECIFIED.

GROUNDING CONNECTIONS

A. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE SWITCHGEAR BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO 3/4" DIAMETER BY 10' LONG GROUND RODS. WHERE REQUIRED, TO MEET REQUIREMENT SO SPECIFIED TESTS, EXTRA RODS SHALL BE INSTALLED AT NO ADDITIONAL COST TO OWNER. RODS SHALL BE LOCATED NO CLOSER THAN 6 FEET FROM EACH OTHER OR ANY OTHER ELECTRODE AND SHALL BE INTERCONNECTED BY A BARE COPPER CONDUCTOR BRAZED TO EACH GROUND ROD BELOW GRADE.

B. PROVIDE IN CONDUIT A GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE AND CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS. WHERE A DIELECTRIC MAIN WATER FITTING IS INSTALLED, CONNECT GROUND CONDUCTOR TO BUILDING SIDE OF DIELECTRIC WATER FITTINGS. JUMPER ACROSS DIELECTRIC UNION, BOND CONDUIT TO GROUND CONDUCTOR AT EACH END. PROVIDE JUMPER WITH GROUND CLAMPS AROUND DIELECTRIC MAIN WATER FITTING.

C. CONNECT SYSTEM NEUTRAL GROUND AND EQUIPMENT GROUND SYSTEM TO COMMON GROUND BUS. GROUND SECONDARY SERVICES AT SUPPLY SIDE OF EACH INDIVIDUAL SECONDARY DISCONNECTING MEANS AND AT RELATED TRANSFORMERS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE EACH SERVICE DISCONNECT ENCLOSURE WITH NEUTRAL DISCONNECTING MEANS WHICH INTERCONNECTS WITH INSULATED NEUTRAL AND UNINSULATED EQUIPMENT GROUND SUB TO ESTABLISH SYSTEM COMMON GROUND POINT. NEUTRAL DISCONNECTING LINKS SHALL BE LOCATED SO THAT LOW VOLTAGE NEUTRAL BAR WITH INTERIOR SECONDARY NEUTRALS CAN BE ISOLATED FROM COMMON GROUND BUS AND SERVICE ENTRANCE CONDUCTORS.

D. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON THE DRAWINGS SHALL INDICATE AN INDIVIDUAL AND SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT THE BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT. NO SHARING OF EQUIPMENT GROUNDING CONDUCTORS SIZED ACCORDING TO THE SIZE OF THE OVERCURRENT DEVICE AND NEC TABLE 250.95 SHALL BE ALLOWED.

E. REQUIRED EQUIPMENT GROUNDING CONDUCTORS AND STRAPS SHALL BE SIZED IN COMPLIANCE WITH N.E.C. TABLE 250.95. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN TYPE TW 600 VOLT INSULATION. RELATED FEEDER AND BRANCH CIRCUIT GROUNDING

CONDUCTORS SHALL BE CONNECTED TO GROUND BUS WITH APPROVED PRESSURE CONNECTORS. PROVIDE FEEDER SERVING SEVERAL PANELBOARDS WITH A CONTINUOUS GROUNDING CONDUCTOR CONNECTED TO EACH RELATED PANELBOARD GROUND BUS. INSTALLATION SHALL INCLUDE NECESSARY PRECAUTIONS REGARDING TERMINATIONS WITH DISSIMILAR METALS.

F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM WITH A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING AND POWER SHALL CONSIST OF PHASE AND NEUTRAL CONDUCTORS AND A GREEN GROUND CONDUCTOR INSTALLED IN COMMON METALLIC CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR. PROVIDE FLEXIBLE METALLIC CONDUIT UTILIZED IN CONJUNCTION WITH ABOVE SINGLE PHASE BRANCH CIRCUITS WITH SUITABLE GREEN INSULATED GROUNDING CONDUCTORS CONNECTED TO APPROVED GROUNDING TERMINALS AT EACH END OF FLEXIBLE CONDUIT. SINGLE PHASE BRANCH CIRCUIT INSTALLED IN NONMETALLIC CONDUITS SHALL BE PROVIDED WITH SEPARATE GROUNDING CONDUCTOR. INSTALL GROUNDING CONDUCTOR IN COMMON CONDUIT WITH RELATED PHASE AND/OR NEUTRAL CONDUCTORS. WHERE PARALLEL FEEDERS ARE INSTALLED IN MORE THAN ONE RACEWAY, EACH RACEWAY SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

G. CONTRACTOR SHALL DETERMINE NUMBER AND SIZE OF PRESSURE CONNECTORS TO BE PROVIDED ON EQUIPMENT GROUNDING BARS FOR TERMINATION OF EQUIPMENT GROUNDING CONDUCTORS IN PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT. IN ADDITION TO ACTIVE CIRCUITS, PROVIDE PRESSURE CONNECTORS FOR PANEL SPARES AND BLANK SPACES.

H. PROVIDE ELECTRICAL EXPANSION FITTING WITH AN EXTERNAL FLEXIBLE COPPER GROUND SECURELY BONDED BY APPROVED GROUNDING STRAPS ON EACH END OF FITTING EXCEPT WHERE UL APPROVED BUILT-IN COPPER GROUNDING DEVICE IS PROVIDED.

I. PROVIDE STEEL AND ALUMINUM CONDUITS WHICH TERMINATE WITHOUT MECHANICAL CONNECTION TO METALLIC HOUSING OF ELECTRICAL EQUIPMENT WITH GROUND BUSHING AND CONNECT EACH BUSHING WITH BARE COPPER CONDUCTOR TO GROUND BUS IN ELECTRICAL EQUIPMENT. ELECTRICALLY NON-CONTINUOUS METALLIC CONDUITS CONTAINING GROUND WIRING ONLY SHALL BE BONDED TO GROUND WIRE AT BOTH CONDUIT ENTRANCE AND EXIT.

J. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY THE NEC.

CONDUITS

STEEL CONDUIT

F. EMT CONDUIT: CONDUIT SHALL BE GALVANIZED STEEL ELECTRICAL METALLIC TUBING AND BEAR UNDERWRITERS' LABORATORY LABEL. CONDUIT SHALL CONFORM TO FEDERAL SPECIFICATION WMC_563 AND ANSI SPECIFICATION C80.3.

G. CONTRACTOR MAY USE EMT FOR ALL MAIN FEEDER CIRCUITS TO SWITCHBOARDS AND PANELBOARDS UNLESS SPECIFICALLY INDICATED ON PLANS.

H. MC CABLE AND FLEXIBLE METAL CONDUIT: WHERE ALLOWABLE BY CODE, MC CABLE AND FLEXIBLE METAL CONDUIT (FMC) WITH CONDUCTORS AND GROUND MAY BE USED ONLY IN THE FORM OF 8' WHIPS (OR LESS) FOR BRANCH CIRCUIT DROPS FROM JBS TO INDIVIDUAL LIGHTING FIXTURES, WAX BOXES, SMALL EXHAUST FANS, AND OTHER FRACTIONAL HP EQUIPMENT.

IN ALL CASES, THE FLEXIBLE CONDUIT AND/OR MC CABLE SHALL CONTAIN A DEDICATED EQUIPMENT GROUNDING CONDUCTOR.

MC/FMC SHALL NOT BE LOOPED OR ROUTED FIXTURE-TO-FIXTURE OR BOX-TO-BOX. USAGE SHALL BE FOR INDIVIDUAL TERMINATION ONLY AND MAY NOT BE USED TO SERVE RECEPTABLES RECESSED IN WALLS OR BE CONCEALED IN WALLS OR CEILING.

CONDUIT FITTINGS

A. RIGID STEEL CONDUIT: COUPLINGS SHALL BE STEEL THREADED TYPE AND BOX CONNECTORS SHALL BE STEEL INSULATED BUSHINGS AND MALLEABLE IRON OR STEEL LOCKNUTS. UNLETS SHALL BE MALLEABLE IRON WITH BLANK COVER.

B. EMT CONDUIT: COUPLINGS AND BOX CONNECTORS SHALL BE DIE CAST SET SCREW TYPE. UNLETS SHALL BE MALLEABLE IRON WITH BLANK COVER.

C. FLEXIBLE CONDUIT: CONNECTORS SHALL BE THREADED TYPE IRON WITH INSULATED THROAT.

D. WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS PROVIDE 0.2 EXPANSION FITTINGS TYPE "AX", "TE", "EX", OR "EXE" AS REQUIRED.

E. PROVIDE GROUNDING BUSHINGS WHERE FEEDER CONDUIT ATTACHES TO PANELBOARD BACKBOX. BOND GROUNDING BUSHING TO GROUND BUS.

CONDUIT INSTALLATION

A. ALIGN CONDUIT TERMINATIONS AT PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL EQUIPMENT, JUNCTION BOXES, ETC. AND INSTALL TRUE AND PLUMB. PROVIDE SUPPORTS OR TEMPLATES TO HOLD CONDUIT ALIGNMENT DURING ROUGH-IN STAGE OF WORK.

B. INSTALL CONDUIT CONTINUOUS BETWEEN OUTLET BOXES, CABINETS AND EQUIPMENT. MAKE BENDS SMOOTH AND EVEN WITHOUT FLATTENING OR FLAKING CONDUIT. RADIUS OF BENDS SHALL NOT BE SHORTER THAN RADIUS LISTED TABLE 346.10 (B) OF NEC. LONG RADIUS ELBOWS MAY

BE USED WHERE NECESSARY.

C. REAM AND CLEAN CONDUIT BEFORE INSTALLATION AND PLUG OR COVER OPENINGS AND BOXES TO KEEP CONDUIT CLEAN DURING CONSTRUCTION.

D. INSTALL NO CONDUITS OR OTHER RACEWAYS SIZED SMALLER THAN PERMITTED IN APPLICABLE NEC TABLES. WHERE CONDUIT SIZES SHOWN ON DRAWINGS ARE SMALLER THAN PERMITTED BY CODE, CONTRACTOR SHALL INCLUDE COST FOR PROPER SIZE CONDUIT IN HIS BASE BID. IN NO CASE REDUCE CONDUIT SIZES INDICATED ON DRAWINGS OR SPECIFIED WITHOUT WRITTEN APPROVAL OF ARCHITECT/ENGINEER. FASTEN CONDUIT SECURELY IN PLACE WITH APPROVED STRAPS, HANGERS, AND STEEL SUPPORTS. PROVIDE 0.2 CABLE SUPPORT TO SUPPORT CONDUCTORS IN VERTICAL RACEWAYS AS REQUIRED BY NEC TABLE 300.19 (A) OF NEC.

E. LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUITS.

INSERTS, HANGERS

A. SUPPORT VERTICAL AND HORIZONTAL CONDUIT RUNS AT INTERVALS NOT GREATER THAN 10 FEET, WITHIN 3 FEET OF ANY BEND AND AT EVERY OUTLET OR JUNCTION BOX.

B. INSTALL MULTIPLE RUNS OF CONDUITS AS FOLLOWS:

- WHERE A NUMBER OF CONDUITS ARE TO BE RUN EXPOSED AND PARALLEL, GROUP AND SUPPORT WITH TRAPEZE HANGERS.
- FASTEN HANGER RODS TO STRUCTURAL STEEL MEMBERS WITH SUITABLE BEAM CLAMPS AND TO CONCRETE STRUCTURES WITH INSERTS SET FLUSH WITH SURFACE. INSTALL CONCRETE INSERTS WITH REINFORCED ROD THROUGH OPENING PROVIDED IN INSERTS.
- INSERTS SHALL BE GRINNELL FIGURE 279, 281, 282, OR 285 OR EQUIVALENT AS REQUIRED BY LOAD AND CONCRETE THICKNESS.
- PROVIDE BEAM CLAMPS SUITABLE FOR STRUCTURAL MEMBERS AND CONDITIONS.
- PROVIDE 3/8" MINIMUM DIAMETER STEEL HANGERS RODS GALVANIZED OR CADMIUM PLATED FINISH.
- TRAPEZE HANGERS SHALL BE KNOWROF SERIES 900 CHANNEL WITH FITTINGS AND ACCESSORIES AS REQUIRED. ATTACH EACH CONDUIT TO TRAPEZE HANGER WITH STEEL CITY NO. C_105 CLAMPS FOR RIGID CONDUIT AND STEEL CITY NO. C_106 CLAMPS FOR ELECTRICAL METALLIC TUBING. (EMT).

C. INSTALL CLAMPS FOR SINGLE CONDUIT RUNS AS FOLLOWS:

- SUPPORT INDIVIDUAL RUNS BY APPROVED PIPE STRAPS, SECURED BY TOGGLE BOLTS ON HOLLOW MASONRY; EXPANSION SHIELDS AND MACHINE SCREWS OR STANDARD PRESET INSERTS ON CONCRETE OR SOLID MASONRY; MACHINE SCREWS OR BOLTS ON METAL SURFACES; AND WOOD SCREWS ON WOOD CONSTRUCTION. USE OF PERFORATED STRAP NOT PERMITTED.
- INSTALL EXPOSED CONDUITS IN DAMP LOCATIONS WITH CLAMP BACKS UNDER EACH CONDUIT CLAMP TO PREVENT ACCUMULATION OF MOISTURE AROUND CONDUITS.

D. PROVIDE INSERTS, HANGERS AND ACCESSORIES WITH FINISH AS FOLLOWS:

- GALVANIZED: CONCRETE INSERTS AND PIPE STRAPS.
- GALVANIZED OR CADMIUM PLATED: STEEL BOLTS, NUTS, WASHERS AND SCREWS.
- PAINTED WITH PRIME COAT: INDIVIDUAL HANGERS, TRAPEZE HANGERS AND RODS.

E. EQUIVALENT HANGERS AND SUPPORT SYSTEMS BY BINKLEY, FEE AND MASON, KIN_LINE OR UNISTRUT.

BUSHINGS AND LOCKNUTS

A. ENTER OUTLET BOXES SQUARELY AND SECURELY CLAMP CONDUIT TO OUTLET BOX WITH BUSHING ON INSIDE AND LOCKNUT ON OUTSIDE.

SLEEVES

A. PROVIDE PROPER TYPE AND SIZE SLEEVES TO GENERAL CONTRACTOR FOR ELECTRICAL DUCTS, BUSES, CONDUITS, ETC. PASSING THROUGH BUILDING CONSTRUCTION. SUPERVISE INSTALLATION TO INSURE PROPER SLEEVE LOCATION. UNLESS INDICATED OR APPROVED INSTALL NO SLEEVES IN STRUCTURAL MEMBERS.

B. UNLESS SPECIFIED OTHERWISE PROVIDE 18 GAUGE GALVANIZED SHEET METAL SLEEVES THROUGH FLOORS AND NON-BEARING WALLS. WHERE PIPING PASSES THROUGH EXTERIOR WALLS, EQUIPMENT ROOM WALLS, AIR PLENUM WALLS AND WALLS BETWEEN AREAS THAT MUST BE ISOLATED FROM OCCUPIED AREAS, SEAL SPACE BETWEEN SLEEVES AND PIPING, AIR OR WATER TIGHT ARE REQUIRED WITH THUNDERLINE CORP. LINK SEAL.

C. ALL HOLES OR VOIDS CREATED BY THE ELECTRICAL CONTRACTOR TO EXTEND PIPE THROUGH FIRE RATED FLOORS AND WALLS SHALL BE SEALED WITH AN INTUMESCENT MATERIAL CAPABLE OF EXPANDING UP TO 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES OF 250 DEGREES F. IT SHALL HAVE ICBO, BOCA AND SBCCI (NRB 243) APPROVED RATINGS TO 3 HOURS PER ASTM E_814 (UL 1479). ACCEPTABLE MATERIAL: 3M FIRE BARRIER CAULK, PUTTY, STRIP AND SHEET FORMS.

SPECIFICATIONS

A-015174

ME002

CONSTRUCTION DOCUMENTS



4-15-24

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Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsethief Rd., Marquette, KS 67464
BUILDING NUMBER 71000-27677
REV. JGW
DATE: 9/30/2024 DRAWN BY: CAD

SPECIFICATIONS

A-015174

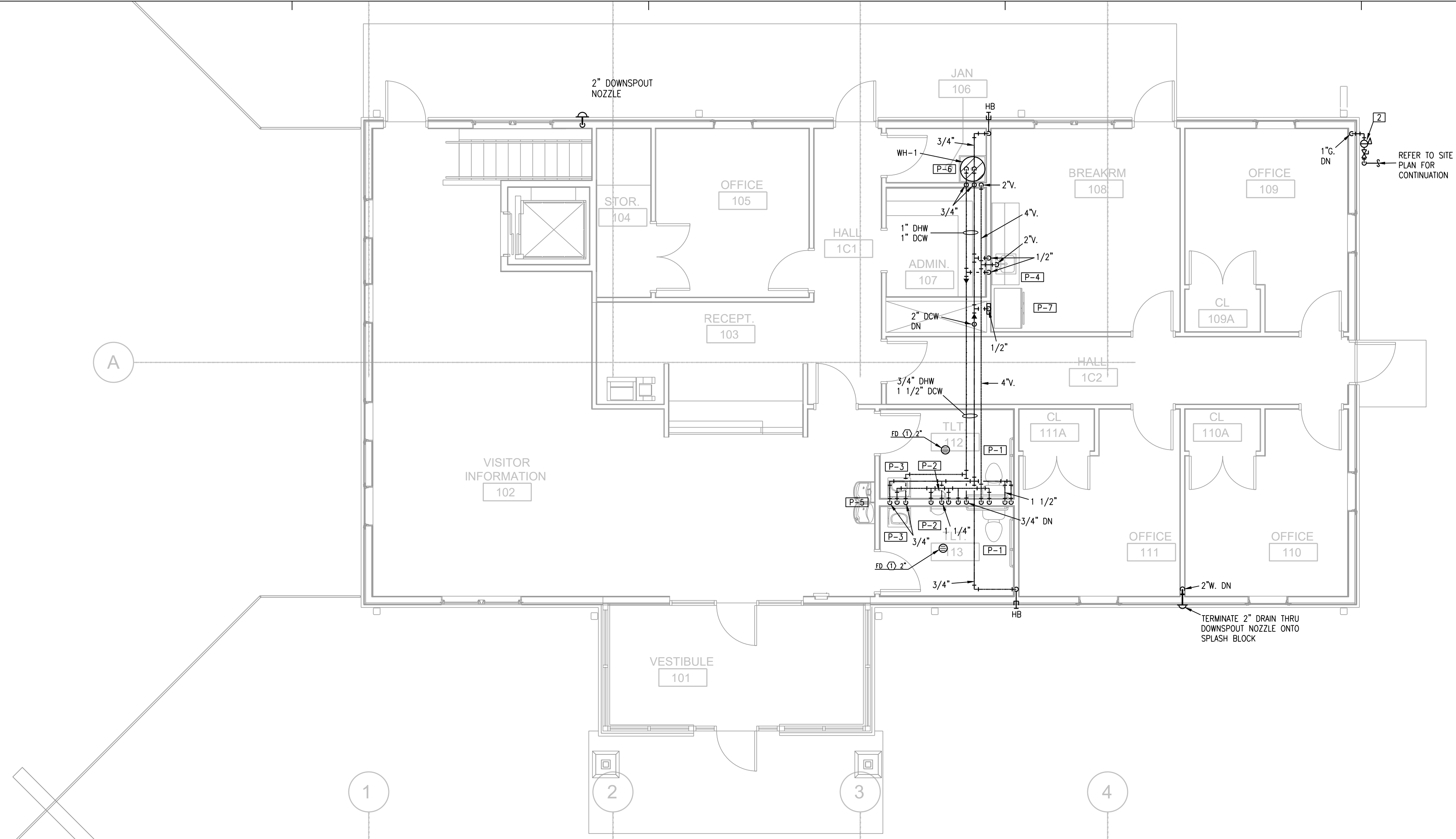
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CONSTRUCTION
DOCUMENTS

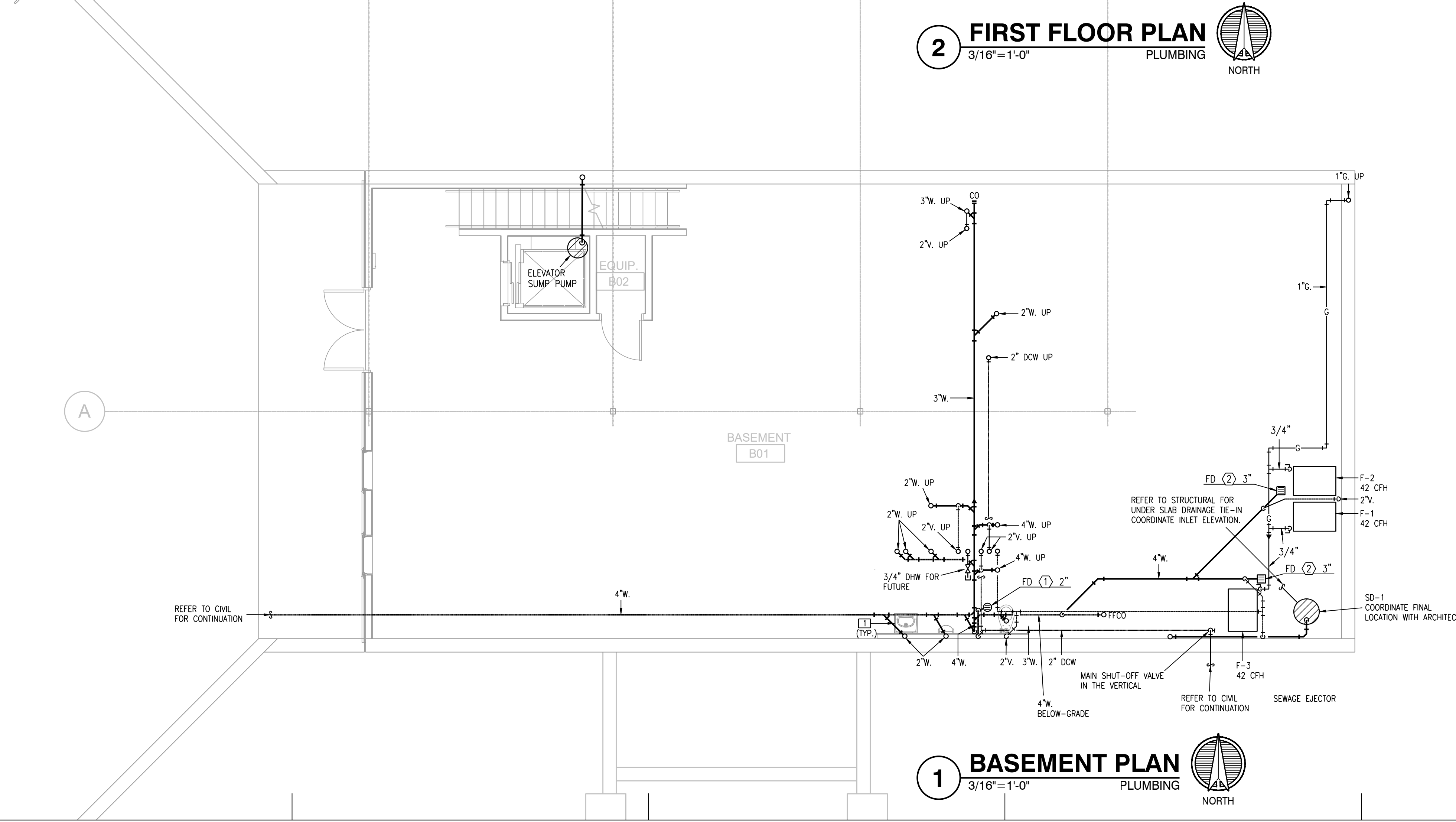
ELECTRICAL SPECIFICATIONS:	
<p>OUTLET, PULL AND JUNCTION BOXES</p> <p>OUTLET BOXES</p> <p>A. PROVIDE ELECTRICAL SERVICE OUTLETS, INCLUDING PLUG RECEPTACLES, LAMP RECEPTACLES, LIGHTING FIXTURES AND SWITCHES WITH STEEL CITY, RACO, OR EQUIVALENT FOUR INCH CODE GAUGE STEEL KNOCKOUT BOXES GALVANIZED OR SHERADIZED OF REQUIRED DEPTH FOR SERVICE OR DEVICE.</p> <p>B. PROVIDE CODE GAUGE GALVANIZED STEEL RAISED COVERS ON OUTLET BOXES INSTALLED IN PLASTER FINISH. SET TO PLASTER GROUNDS WITH OUTSIDE EDGE OF COVER FLUSH WITH PLASTER FINISH.</p> <p>C. PROVIDE 3/8" OR LARGER FIXTURE STUD IN EACH OUTLET BOX SCHEDULED TO RECEIVE LIGHTING FIXTURE. SELECT COVERS WITH PROPER OPENING FOR DEVICE INSTALLED IN OUTLET BOX.</p> <p>D.</p> <p>E. USE OF UTILITY OF "HANDY" BOXES ACCEPTABLE ONLY WHERE SINGLE GANG FLUSH OUTLET BOX IN MASONRY IS "DEAD_END" WITH ONLY ONE CONDUIT ENTERING BOX FROM END OR BACK.</p> <p>F. USE NO SECTIONAL OUTLET BOXES.</p> <p>G. PROVIDE APPLETON FS OR FD UNLETS FOR SURFACE MOUNTED EXTERIOR WORK. PROVIDE COMPLETE WITH PROPER DEVICE COVER AND GASKET. PROVIDE BLANK COVER AND GASKET WHEN USED AS JUNCTION BOX.</p> <p>LOCATION OF OUTLET BOXES</p> <p>A. LOCATE OUTLET BOXES GENERALLY FROM COLUMN CENTERS AND FINISHED WALL LINES. INSTALL CEILING OUTLET BOXES AT SUSPENDED CEILING ELEVATIONS.</p> <p>B. ACCURATELY LOCATE LIGHTING FIXTURES AND APPLIANCE OUTLET BOXES MOUNTED IN CONCRETE OR IN PLASTER FINISH ON CONCRETE. INSTALL OUTLET BOXES IN FORMS TO DIMENSIONS TAKEN FROM BENCHMARKS, COLUMNS, WALLS, OR FLOORS. ROUGH-IN LIGHTING FIXTURES AND APPLIANCE OUTLET BOXES TO GENERAL LOCATIONS BEFORE INSTALLATION OF WALLS AND FURRING AND RESET TO EXACT DIMENSIONS AS WALLS AND FURRING ARE CONSTRUCTED. SET OUTLET BOXES TRUE TO HORIZONTAL AND VERTICAL FINISH SURFACES OF BUILDING.</p> <p>C. INSTALL OUTLET BOXES ACCESSIBLE. PROVIDE OUTLET BOXES ABOVE PIPING OR DUCTWORK WITH EXTENSION STEMS OR OFFSETS AS REQUIRED TO CLEAR PIPING AND DUCTWORK.</p> <p>D. INSTALL TOP OF SWITCH OUTLET BOXES 48" ABOVE FLOOR UNLESS OTHERWISE CALLED FOR OR REQUIRED BY WANSOCOT, COUNTER, ETC. INSTALL BOTTOM OF RECEPTACLE OUTLET BOXES 16" ABOVE FLOOR UNLESS OTHERWISE CALLED FOR ON DRAWINGS. ADJUST MOUNTING HEIGHTS TO NEAREST MASONRY JOINT FOR MINIMUM CUTTING IN CASE OF FLUSH OUTLETS.</p> <p>E. INSTALL CLOCK AND OTHER OUTLET BOXES AT ELEVATIONS INDICATED ON DRAWINGS OR AS DIRECTED BY ARCHITECT. DO NOT INSTALL OUTLET BOXES "BACK TO BACK" IN WALLS AND PARTITIONS.</p> <p>PULL BOXES, WIREWAYS AND GUTTERS</p> <p>A. PROVIDE ALWALT, KEYSTONE, UNIVERSAL OR EQUIVALENT CODE GAUGE PULL BOXES, WIREWAYS, AND GUTTERS INDICATED OR REQUIRED FOR INSTALLATION, SIZED TO CONFORM WITH NEC RULES. PROVIDE COMPLETE WITH NECESSARY FITTINGS, INTERCONNECTING NIPPLES, INSULATING BUSHINGS, CONDUCTOR SUPPORTS, COVERS, GASKETS, PARTITIONS, ETC. AS REQUIRED.</p> <p>B. SPECIAL ITEMS MAY BE FABRICATED LOCALLY, TO SAME GENERAL DESIGN AND SPECIFICATIONS AS THOSE LISTED IN SPECIFIED MANUFACTURER'S CATALOGS. PROVIDE FREE OF BURRS, SHARP EDGES, UNREAMED HOLES, SHARP POINTED SCREWS OR BOLTS, AND FINISHED WITH ONE COAT OF SUITABLE ENAMEL INSIDE AND OUT, PRIOR TO MOUNTING.</p> <p>C. PROVIDE SECTIONAL COVERS FOR EASY REMOVAL.</p> <p>CIRCUIT BREAKER PANELBOARDS</p> <p>CIRCUIT BREAKER DISTRIBUTION PANELBOARDS</p> <p>A. PROVIDE DISTRIBUTION AND POWER PANELBOARDS AS INDICATED IN THE PANELBOARD SCHEDULE AND WHERE SHOWN ON THE PLANS. PANELBOARDS SHALL BE EQUIPPED WITH THERMAL-MAGNETIC, MOLDED CASE CIRCUIT BREAKERS TRIP RATINGS AS SHOWN ON THE SCHEDULE.</p> <p>BUSBING ASSEMBLY AND TEMPERATURE RISE:</p> <p>A. PANELBOARD BUS STRUCTURE AND MAIN LUGS OR MAIN BREAKER SHALL HAVE CURRENT RATINGS AS SHOWN ON THE PANELBOARD SCHEDULE. SUCH RATINGS SHALL BE ESTABLISHED BY HEAT RISE TESTS WITH MAXIMUM HOT SPOT TEMPERATURE ON ANY CONNECTOR OR BUS BAR NOT TO EXCEED 50 DEGREES C. RISE ABOVE AMBIENT. HEAT RISE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL 67. THE USE OF CONDUCTOR DIMENSIONS WILL NOT BE ACCEPTED IN LIEU OF ACTUAL HEAT TESTS.</p> <p>CIRCUIT BREAKERS:</p> <p>A. CIRCUIT BREAKERS SHALL BE EQUIPPED WITH INDIVIDUALLY INSULATED, BRACED AND PROTECTED CONNECTORS. THE FRONT FACES OF ALL</p>	<p>CIRCUIT BREAKERS SHALL BE FLUSH WITH EACH OTHER. LARGE, PERMANENT, INDIVIDUAL CIRCUIT MEMBERS SHALL BE AFFIXED TO EACH BREAKER IN A UNIFORM POSITION. TRIPPED INDICATION SHALL BE CLEARLY SHOWN BY THE BREAKER HANDLE TAKING A POSITION BETWEEN "ON" AND "OFF". PROVISIONS FOR ADDITIONAL BREAKERS SHALL BE SUCH THAT NO ADDITIONAL CONNECTIONS WILL BE REQUIRED TO ADD BREAKERS.</p> <p>INTEGRATED EQUIPMENT SHORT CIRCUIT RATING</p> <p>A. EACH PANELBOARD, AS A COMPLETE UNIT, SHALL HAVE A SHORT CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE INTEGRATED EQUIPMENT RATING INDICATED IN PANELBOARD SCHEDULE. THIS RATING SHALL BE ESTABLISHED BY TESTING WITH THE OVERCURRENT DEVICES MOUNTED IN THE PANELBOARD. THE SHORT CIRCUIT TESTS ON THE OVERCURRENT DEVICES AND ON THE PANELBOARD STRUCTURE SHALL BE MADE SIMULTANEOUSLY BY CONNECTING THE FAULT TO EACH OVERCURRENT DEVICE WITH THE PANELBOARD CONNECTED TO ITS RATED VOLTAGE SOURCE. METHOD OF TESTING SHALL BE PER UNDERWRITERS LABORATORIES STANDARD UL 67. THE SOURCE SHALL BE CAPABLE OF SUPPLYING THE SPECIFIED PANELBOARD SHORT CIRCUIT CURRENT OR GREATER. TESTING OF PANELBOARD OVERCURRENT DEVICES FOR SHORT CIRCUIT RATING ONLY WHILE INDIVIDUALLY MOUNTED IS NOT ACCEPTABLE. ALSO, TESTING OF THE BUS STRUCTURE BY APPLYING A FIXED FAULT TO THE BUS STRUCTURE ALONE IS NOT ACCEPTABLE. PANELBOARDS SHALL BE MARKED WITH THEIR MAXIMUM SHORT CIRCUIT CURRENT RATING AT THE SUPPLY VOLTAGE AND SHALL BE UL LISTED.</p> <p>CABINET</p> <p>A. PANELBOARD ASSEMBLY SHALL BE ENCLOSED IN A STEEL CABINET. THE RIGIDITY AND GAUGE OF STEEL TO BE AS SPECIFIED IN UL STANDARD 50 FOR CABINETS. THE SIZE OF WIRING GUTTERS SHALL BE IN ACCORDANCE WITH UL STANDARD 67. CABINETS TO BE EQUIPPED WITH LATCH AND TUMBLER-TYPE LOCK ON DOOR OF TRIM. DOORS OVER 48" LONG SHALL BE EQUIPPED WITH THREE-POINT LATCH AND VAULT LOCK. ALL LOCKS SHALL BE KEYS ALIKE. ENDWALLS SHALL BE REMOVABLE FRONTS SHALL BE OF CODE GAUGE STEEL. GRAY BAKED ENAMEL FINISH ELECTRODEPOSITED OVER CLEANED PHOSPHATIZED STEEL. BRANCH CIRCUIT DISTRIBUTION PANELS SHALL BE PROVIDED WITH A HINGED PANEL COVER WITH A DOOR TO PROVIDE ACCESS TO CIRCUIT BREAKER HANDLES.</p> <p>SAFETY BARRIERS</p> <p>A. THE PANELBOARD INTERIOR ASSEMBLY SHALL BE DEAD FRONT WITH PANELBOARD FRONT REMOVED. MAIN LUGS OR MAIN BREAKERS SHALL HAVE BARRIERS ON FIVE SIDES. THE BARRIER IN FRONT OF THE MAIN LUGS SHALL BE HINGED TO A FIXED PART OF THE INTERIOR. THE END OF THE BUS STRUCTURE OPPOSITE THE MAINS SHALL HAVE BARRIERS.</p> <p>UL LISTING</p> <p>A. PANELBOARDS SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND SHALL BEAR THE UL LABEL. WHEN REQUIRED, PANELBOARDS SHALL BE SUITABLE FOR USE AS SERVICE EQUIPMENT.</p> <p>B. SEE PANELBOARD SCHEDULES ON PLANS.</p> <p>C. PANELS SHALL HAVE BRANCH CIRCUIT DIRECTORY HOLDERS WITH CLEAR PLASTIC COVERS. PROVIDE NEATLY TYPED LIST OF BRANCH CIRCUIT LOADS CORRESPONDING TO BRANCH CIRCUIT NUMBERS.</p> <p>D. PANELBOARDS SHALL BE SQUARE D. EQUIVALENT BY G.E., CUTLER HAMMER OR ITE SIEMENS.</p> <p>E. UNIT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH RULES SET FORTH BY NEC, AND EQUIPMENT MANUFACTURER.</p> <p>SWITCHES, RECEPTACLES AND COVER PLATES</p> <p>A. PROVIDE WHERE SHOWN ON PLANS LEVITON WIRING DEVICES. PART NUMBERS SHALL BE AS LISTED FOR EACH DEVICE SPECIFIED. EQUIVALENT DEVICES BY HUBBELL, PASS & SEYMOUR.</p> <p>INDUSTRY REFERENCES</p> <p>A. UNDERWRITER'S LABORATORIES (UL)</p> <p>SWITCHES (UL 20) RECEPTACLES, PLUGS & CONNECTORS (UL 498) PIN & SLEEVE CONNECTORS (UL 1286) DEVICE PLATES (UL 514) GFC'S (UL 943)</p> <p>B. NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA)</p> <p>WD-1 (DEVICES, PLATES, COLORS) WD-6</p> <p>PRODUCTS</p> <p>A. GENERAL: PROVIDE FACTORY-FABRICATED WIRING DEVICES IN TYPES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED. WHEREVER POSSIBLE, DEVICES SHALL BE BACK AND SIDE WIRED. ALL SWITCHES AND RECEPTACLES SHALL INCORPORATE A METAL MOUNTING STRAP. NON-METALLIC MOUNTING STRAPS ARE NOT ACCEPTABLE. SWITCHES SHALL BE LISTED PER UL 20 AND CERTIFIED BY UL TO FED SPEC. WS-596E. RECEPTACLES SHALL BE LISTED PER UL 498 AND</p>
<p>CERTIFIED BY UL TO FED. SPEC. WS-896E. BOTH SWITCHES AND RECEPTACLES SHALL BE VISIBLY MARKED WITH THE "UL-FS" MARK TO CONFIRM CERTIFICATION. ALL DEVICES SHALL BE FROM THE SAME MANUFACTURER. ALL DEVICES SHALL BE GRAY UNLESS OTHERWISE ON PLANS. ALL SURFACE RACEWAY SHALL BE SATIN ALUMINUM UNLESS NOTED OTHERWISE ON PLANS.</p> <p>B. EACH SWITCH OUTLET SHALL BE EQUIPPED WITH AN AC "QUIET" TOGGLE SWITCH OF 20 AMPERE CAPACITY.</p> <p>LEVITON PART NO. #1221-2 LEVITON PART NO. #1221-2L (LOCKING)</p> <p>C. MOTION SWITCHES SHALL BE CONFIGURED AS "VACANCY" SWITCHES REQUIRING MANUAL ON AND OFF AND LACK OF MOTION OFF.</p> <p>HUBBELL AP 1277-1 OR 2 AS REQUIRED. COLOR BY ARCHITECT.</p> <p>D. EACH CONVENIENCE RECEPTACLE OUTLET SHALL BE EQUIPPED WITH A 20 AMPERE DUPLEX PLUG RECEPTACLES EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES SHALL BE 3 WIRE GROUNDING TYPE NEMA NO. 5-20R. RECEPTACLE SHALL BE CONSTRUCTED WITH NYLON FACE AND BASE. .050 GAUGE BRASS BACKSTRAP WITH ONE-PIECE GROUND DESIGN. RIVETED SELF-GROUNDING CLIP; AND .040 GAUGE SOLID BRASS, TRIPLE-WIPE CONTACTS. RECEPTACLES DENOTED AS "EMERGENCY" SHALL BE DENOTED AS SUCH WITH A DEVICE PLATE LABELED WITH THE WORD "EMERGENCY" IN CAPITAL LETTERS.</p> <p>LEVITON #5362A</p> <p>E. ISOLATED GROUND RECEPTACLES SHALL BE 3 WIRE GROUNDING TYPE NEMA NO. 5-20R-IG. RECEPTACLE SHALL BE CONSTRUCTED WITH NYLON FACE AND BASE. .050 GAUGE BRASS NICKEL-PLATED BACKSTRAP WITH ISOLATED GROUND DESIGN; RIVETED SELF-GROUNDING CLIP; AND .040 GAUGE SOLID BRASS, NICKEL-PLATED, TRIPLE-WIPE CONTACTS. RECEPTACLES SHALL HAVE ORANGE IG SYMBOL.</p> <p>LEVITON #5362-IG</p> <p>SWITCH AND RECEPTACLE FLUSH WALL PLATES</p> <p>A. WALL PLATES: WALL PLATES FOR ALL FLUSH OUTLETS SHALL BE SATIN STAINLESS STEEL TYPE 430. ALL PLATES SHALL BE LISTED PER UL 514 AND SHALL BE OF THE SAME MANUFACTURER AS THE DEVICES FURNISHED. PLATES FOR SURFACE MOUNTED DEVICE OUTLETS SHALL BE DRAWN GALVANIZED STEEL FOR STEEL BOXES AND CAST FOR CAST BOXES.</p> <p>B. PROVIDE FLUSH MOUNTED WIRING DEVICES WITH STANDARD STAINLESS STEEL WALL PLATES WITH SATIN FINISH CONFORMING TO U.S. BUREAU OF STANDARDS FINISH #320.</p> <p>C. ARCHITECTURAL STYLE SPECIFICATION GRADE DEVICES SHALL BE USED WHERE INDICATED ON PLANS. DEVICES SHALL BE LEVITON "DECORA PLUS" WITH MATCHING SCREWLESS, LEXAN PLATES. SWITCHES SHALL BE 20 AMPERE, 277 VOLT RATED. RECEPTACLES SHALL BE NEMA 5-20R CONFIGURATION, 20 AMPERE, 125 VOLT.</p> <p>D. PROVIDE MATCHING BLANK WALL PLATES TO COVER OUTLET OR JUNCTION BOXES INTENDED FOR FUTURE DEVICES.</p> <p>E. PROVIDE MATCHING BLANK WALL PLATES WITH ROUND KNOCK OUT AT ALL TELEPHONE OUTLET LOCATIONS.</p> <p>F. PROVIDE FACTORY ENGRAVED WALL PLATES WHERE INDICATED. WHERE ENGRAVED TEXT IS NOT OUTLINED SUBMIT TWO COPIES OF PROPOSED TEXT TO A/E OFFICER FOR REVIEW.</p> <p>G. WALL PLATES SHALL NOT SUPPORT WIRING DEVICES. PROVIDE WIRING DEVICE WITH ACCESSORIES AS REQUIRED TO PROPERLY INSTALL DEVICES AND WALL PLATES.</p> <p>H. WHERE WALL PLATES FOR SPECIAL DEVICES ARE AVAILABLE ONLY FROM MANUFACTURER OF DEVICE, PROVIDE DESIGNS AND FINISHES EQUIVALENT TO ABOVE SPECIFICATION.</p> <p>I. VERIFY WITH ARCHITECT FINISH OF ANY PLATE WHERE IT MAY BE APPARENT A SPECIAL FINISH OR COLOR SHOULD HAVE BEEN SPECIFIED.</p> <p>J. MULTIPLE SWITCH PLATES SHALL BE ENGRAVED TO INDICATE WHAT THEY CONTROL.</p> <p>LIGHTING FIXTURES</p> <p>GENERAL</p> <p>A. PROVIDE LIGHTING FIXTURES COMPLETE WITH LAMPS AND ACCESSORIES REQUIRED FOR HANGING. CONTRACTOR SHALL INSURE THAT LAMPS, REFLECTOR LENS AND TRIM ARE CLEAN AT TIME OF FINAL INSPECTION. MOUNT RECESSED FIXTURES WITH TRIM FLUSH TO CEILINGS, FREE OF GAPS OR CRACKS.</p> <p>B. COORDINATE MOUNTING OF CEILING MOUNTED LIGHTING FIXTURES WITH GENERAL CONTRACTOR. WHERE ADDITIONAL FIXTURE SUPPORTS ARE REQUIRED DUE TO LIGHTING FIXTURE LOCATION OR WEIGHT, SUPPORTS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED UNDER CEILING SPECIFICATIONS.</p> <p>C. CONSULT ARCHITECTURAL PLANS FOR CEILING TYPES AND PROVIDE SURFACE AND RECESSED LIGHTING FIXTURES WITH APPROPRIATE MOUNTING COMPONENTS AND ACCESSORIES.</p>	<p>D. LIGHTING FIXTURES SUBMITTED MUST MEET OR EXCEED SPECIFIED LIGHTING FIXTURE IN PERFORMANCE AND CONSTRUCTION AND APPEARANCE.</p> <p>E. PROVIDE LIGHTING FIXTURES AT EACH LOCATION SHOWN ON DRAWINGS. LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH TYPE DESIGNATION ON DRAWINGS.</p> <p>F. LIGHTING FIXTURE SUPPORTS SHALL COMPLY WITH THE LATEST EDITION OF THE NEC SECTIONS 410.15 AND 410.16. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. IN ADDITION TO CLIPS, PROVIDE EACH FIXTURE WITH (2) #12 SLACK WIRES, ONE FROM EACH CORNER, UP TO STRUCTURE.</p> <p>G. SEE LIGHTING FIXTURE SCHEDULE ON PLANS FOR FIXTURE TYPES.</p> <p>H. TROFFERS SHALL HAVE A MINIMUM DEPTH OF 4 3/8". LATCHES SHALL BE SPRING LOADED. NO BENT METAL COMPRESSION OR MANUAL LATCHES ARE ACCEPTABLE.</p> <p>I. ALL INTERIOR FLUORESCENT FIXTURES THAT HAVE DOUBLE-ENDED LAMPS AND SERVICEABLE BALLASTS SHALL HAVE INTEGRAL DISCONNECTING MEANS PER 2008 NEC 410.130(C).</p> <p>J. ALL BATTERY PACK EMERGENCY FIXTURES AND STANDBY SOURCE FIXTURES SHALL ILLUMINATE TWO LAMPS UPON A LOSS OF POWER.</p> <p>K. PRIOR TO INSTALLATION OF LUMINAIRES ELECTRICAL CONTRACTOR SHALL INSPECT LUMINAIRE AND VERIFY UNIT MEETS OR EXCEEDS SPECIFICATIONS, IS NEW AND UNUSED WITHOUT DAMAGE OR DEFECT AND IS SUITABLE FOR THE INTENDED SERVICE.</p> <p>L. SEE ARCHITECTURAL AND ELECTRICAL PLANS FOR LUMINAIRE LOCATIONS. COORDINATE INSTALLATION WITH OTHER TRADES.</p> <p>M. AT THE COMPLETION OF THE PROJECT ALL LUMINAIRES SHALL BE ALIGNED, LEVEL AND CLEANED TO THE SATISFACTION OF THE A/E.</p> <p>N. PROVIDE LUMINAIRES BY THE FOLLOWING MANUFACTURERS:</p> <ol style="list-style-type: none"> 1. DOWNLIGHTS: WILLIAMS, HALO, LITHONIA, MARKO, PRESCOLITE 2. FLUORESCENTS: COLUMBIA, LITHONIA, METALUX, WILLIAMS, COOPER 3. LED EXTERIOR: HOLOPHANE, HUBBELL, KIM, LITHONIA, MCGRAW-EDISON, EON 4. EMERGENCY FIXTURES: WILLIAMS, EXITRONIX, FAIL-SAFE, HUBBELL, LITHONIA, DUAL LITE, COOPER 5. PROVIDE LUMINAIRES AS SCHEDULED. ANY POTENTIAL SUBSTITUTIONS SHALL BE SUBMITTED TO ENGINEER FOR PRE-APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. NO EXCEPTIONS. <p>LED FIXTURES</p> <p>A. LED SOURCES SHALL BE BASED ON DURABILITY, ENERGY EFFICIENCY, AND REDUCED MAINTENANCE.</p> <p>B. LED FIXTURES SHALL BE PROVIDED BY MANUFACTURERS WITH A MINIMUM OF (8) YEARS' EXPERIENCE AND PROVIDED MINIMUM (5) YEARS WARRANTY ON ALL ELECTRICAL PARTS.</p> <p>C. LED COMPONENTS AND FIXTURES SHALL COMPLY WITH ANSI CHROMATICITY STANDARDS, LM79 AND IES LM-80 LUMEN MAINTENANCE TESTING STANDARDS.</p> <p>D. DIMMABLE LEDS SHALL UTILIZE CONSTANT CURRENT REDUCTION OR PULSE WIDTH MODULATION CONTROLS.</p> <p>E. LED LIGHTING SYSTEMS WITH UNMATCHED DRIVERS AND POWER SUPPLIES SHALL NOT BE CONSIDERED.</p> <p>F. DRIVE MA RATING SHALL BE INDICATED WHEN REPORTING INITIAL DELIVERED LUMENS OF A SPECIFIED FIXTURE.</p> <p>G. RATED LIFE OF 50,000 WHEN LUMENS DEPRECIATED TO 90% OF INITIAL RATING USING IESNA TM-21 TESTING METHODOLOGY AND DATA EXTRAPOLATION.</p> <p>H. DLC CERTIFICATION RECOMMENDED AND PREFERRED.</p> <p>I. COLOR RENDERING INDEX EQUAL OR GREATER THAN 80.</p> <p>J. COLOR CHANGING LED LUMINAIRES SHALL PROVIDE FULL SPECTRUM COLOR CHANGING CAPABILITY THROUGH THE USE OF RED, BLUE, GREEN AND WHITE (AMBER) LED'S.</p> <p>K. LED FIXTURES SHALL BE COMPATIBLE WITH SPECIFIED FIXTURES.</p> <p>L. ANY EXCEPTION TO THE ABOVE SPECIFICATIONS MUST BE APPROVED BY THE CONTRACTING OFFICER.</p>

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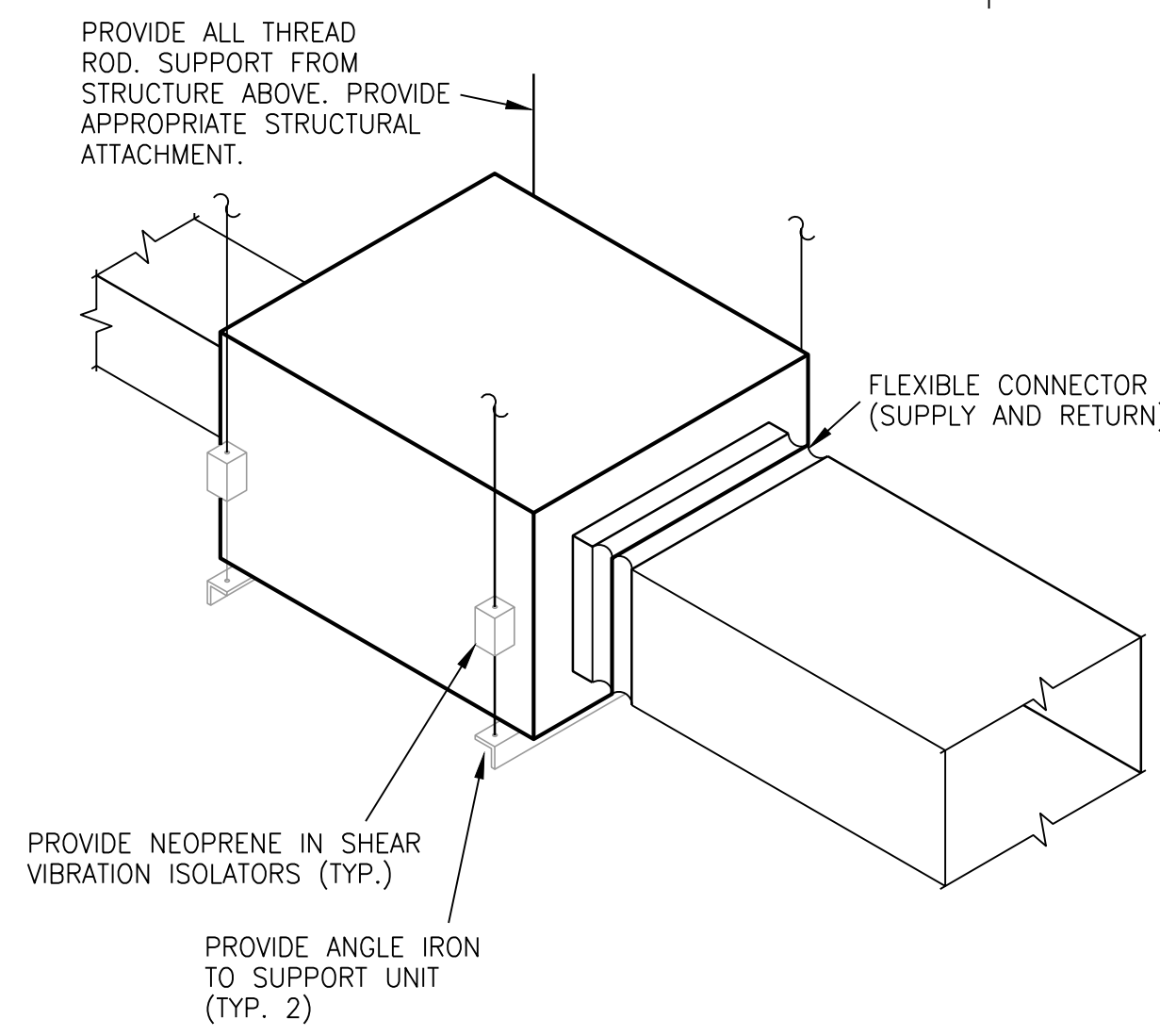
- LEGEND:**
- [1] ROUGH-IN FOR FUTURE FIXTURE.
 - [2] PROVIDE VENTED LP GAS REGULATOR, 10 PSI (VERIFY) TO 11"W.C.



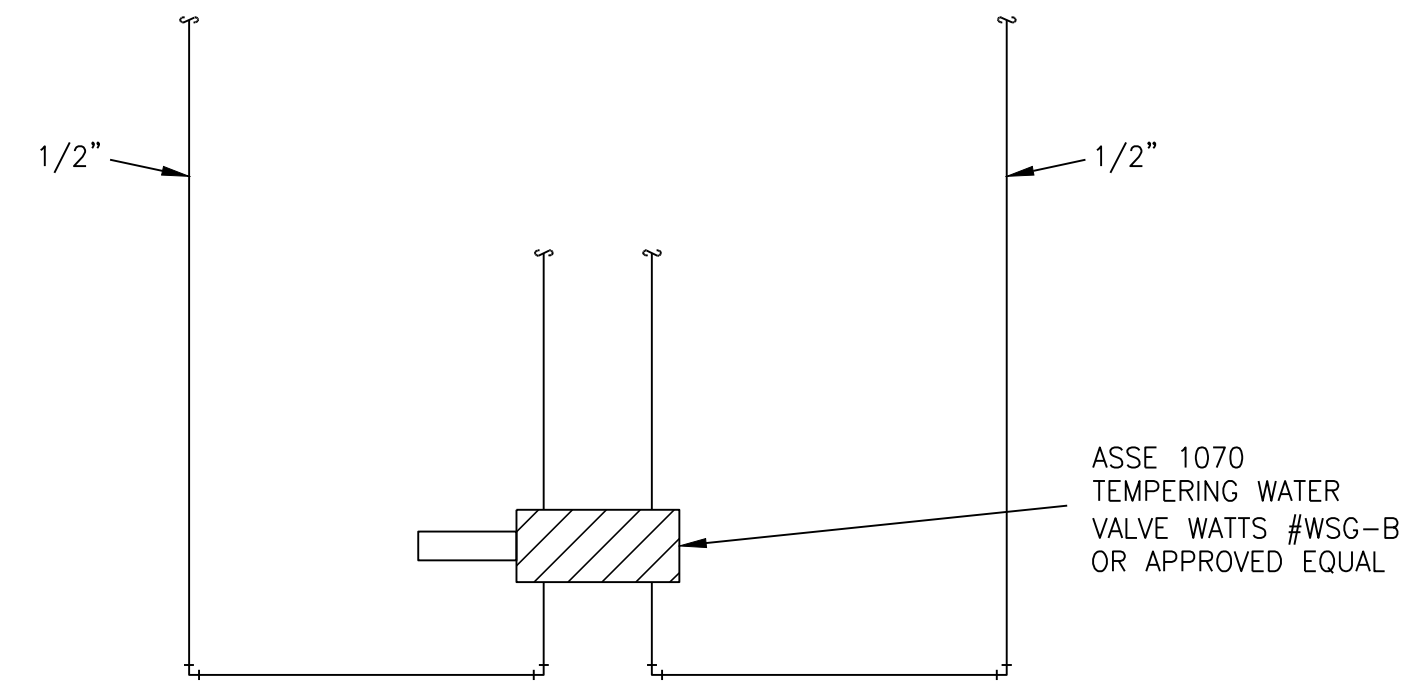
2 FIRST FLOOR PLAN
 3/16"=1'-0"
 PLUMBING
 NORTH



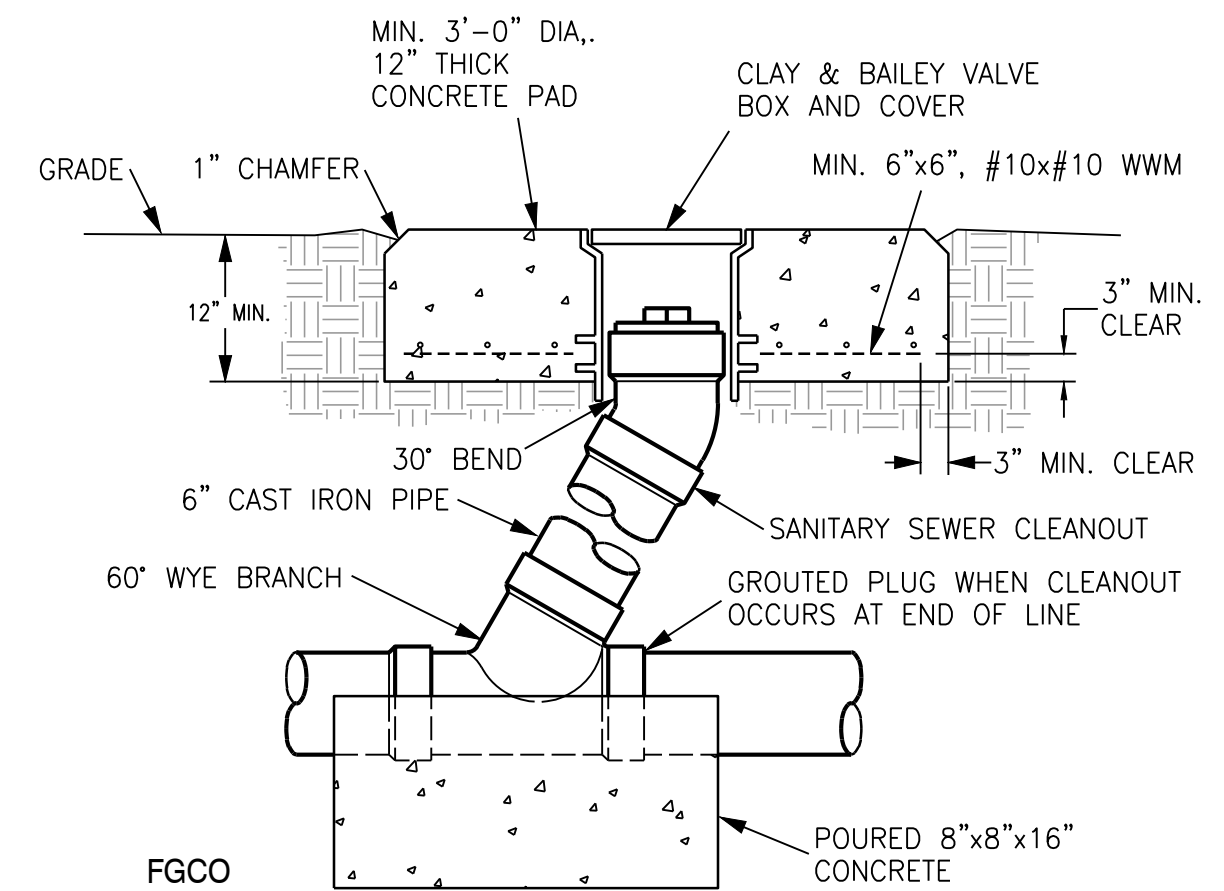
1 BASEMENT PLAN
 3/16"=1'-0"
 PLUMBING
 NORTH



1 VIBRATION ISOLATION DETAIL
NO SCALE (TYPICAL FOR ALL EQUIPMENT SUPPORTED FROM STRUCTURE)



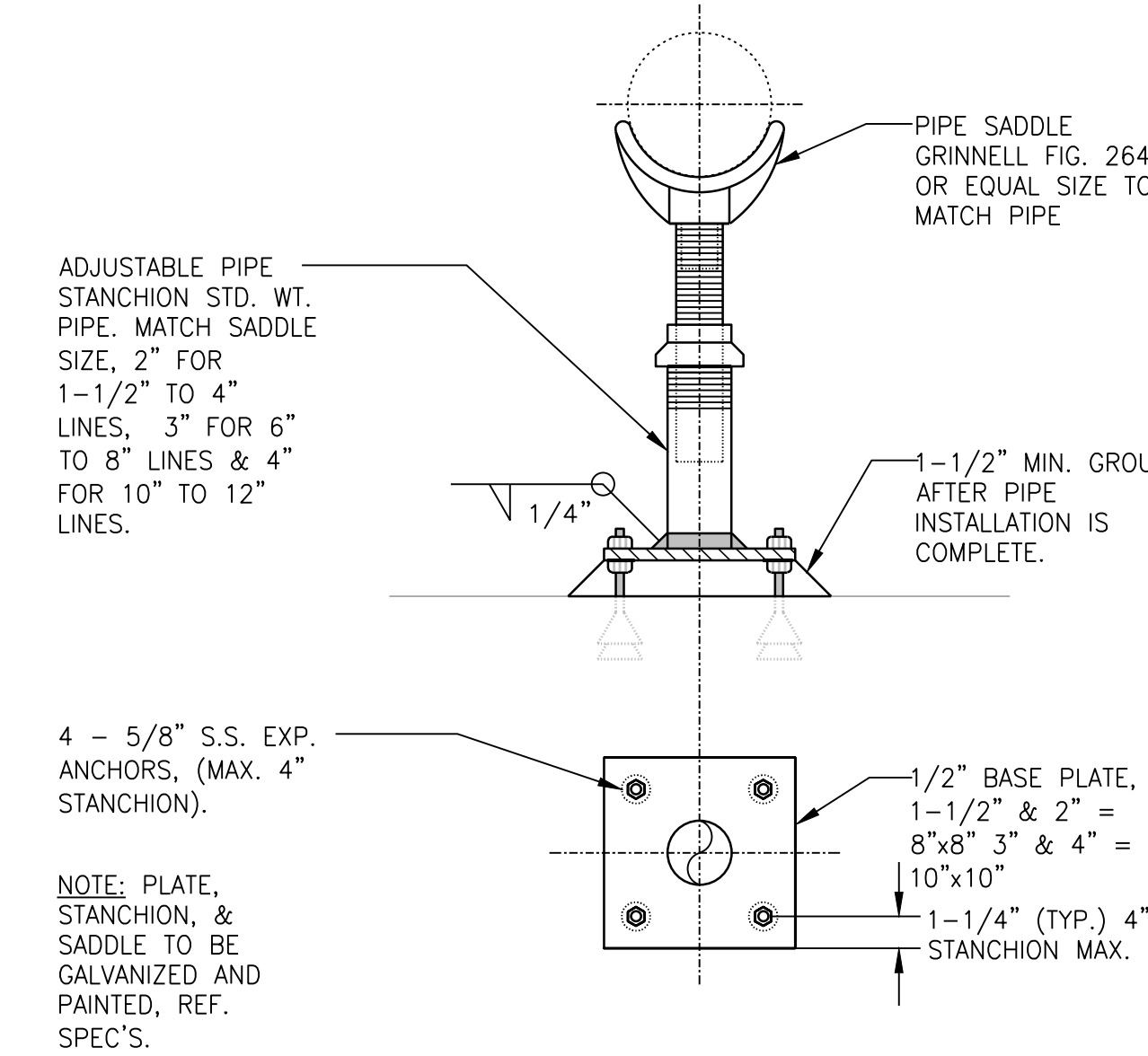
2 LAVATORY WATER CONNECTION DETAIL
NO SCALE (TYP. ALL HAND LAVATORIES & SINKS)



3 FLUSH GRADE CLEANOUT DETAIL
NO SCALE

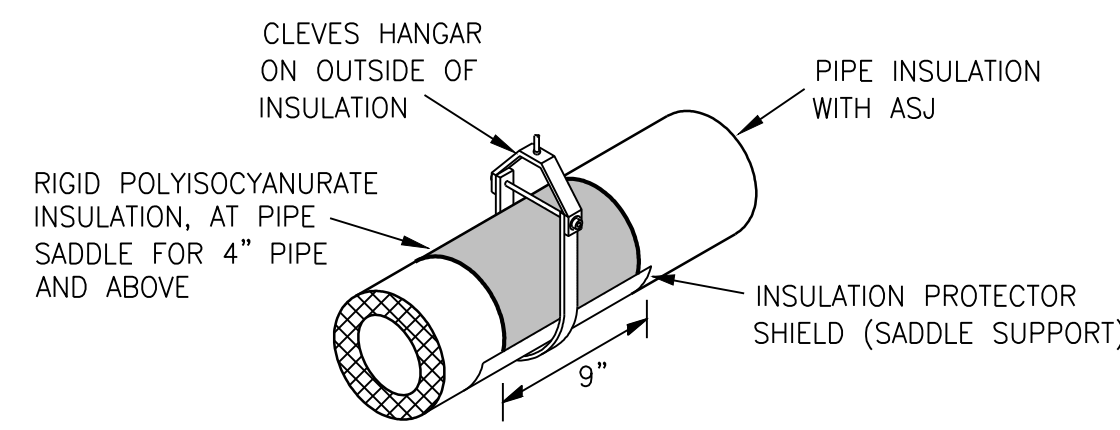
DRAIN SCHEDULE			
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION
FD-1	WADE	SERIES 1100 STD	CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS 1/2" PLUGGED PRIMER TAP AND 6" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS.
FD-2	WADE	SERIES 9110	8" SQ. CAST IRON FLOOR SINK WITH ARC INTERIOR COATING, 6" DEEP DOME BOTTOM STRAINER AND NICKEL BRONZE TOP. PROVIDE 3/4" GRATE TO ACCEPT INDIRECT WASTE WHERE REQUIRED.

GAS LOAD SUMMARY	
FURNACES	198 CFH
TOTAL CONNECTED LOAD:	CFH @ INLET PRESSURE LESS THAN 2PSI WITH 0.5" IN PRESSURE DROP

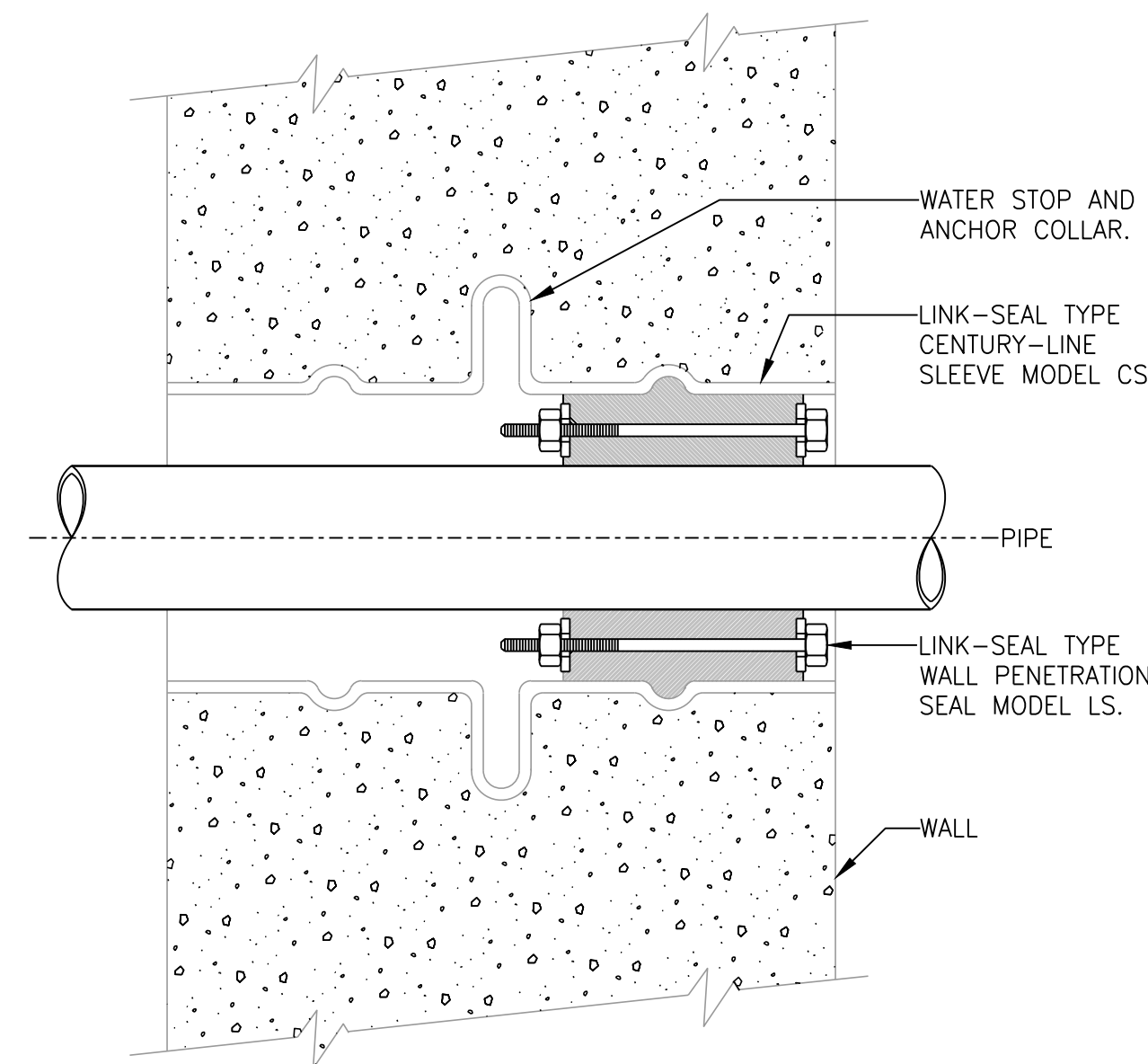


7 PIPE SUPPORT DETAIL
NO SCALE

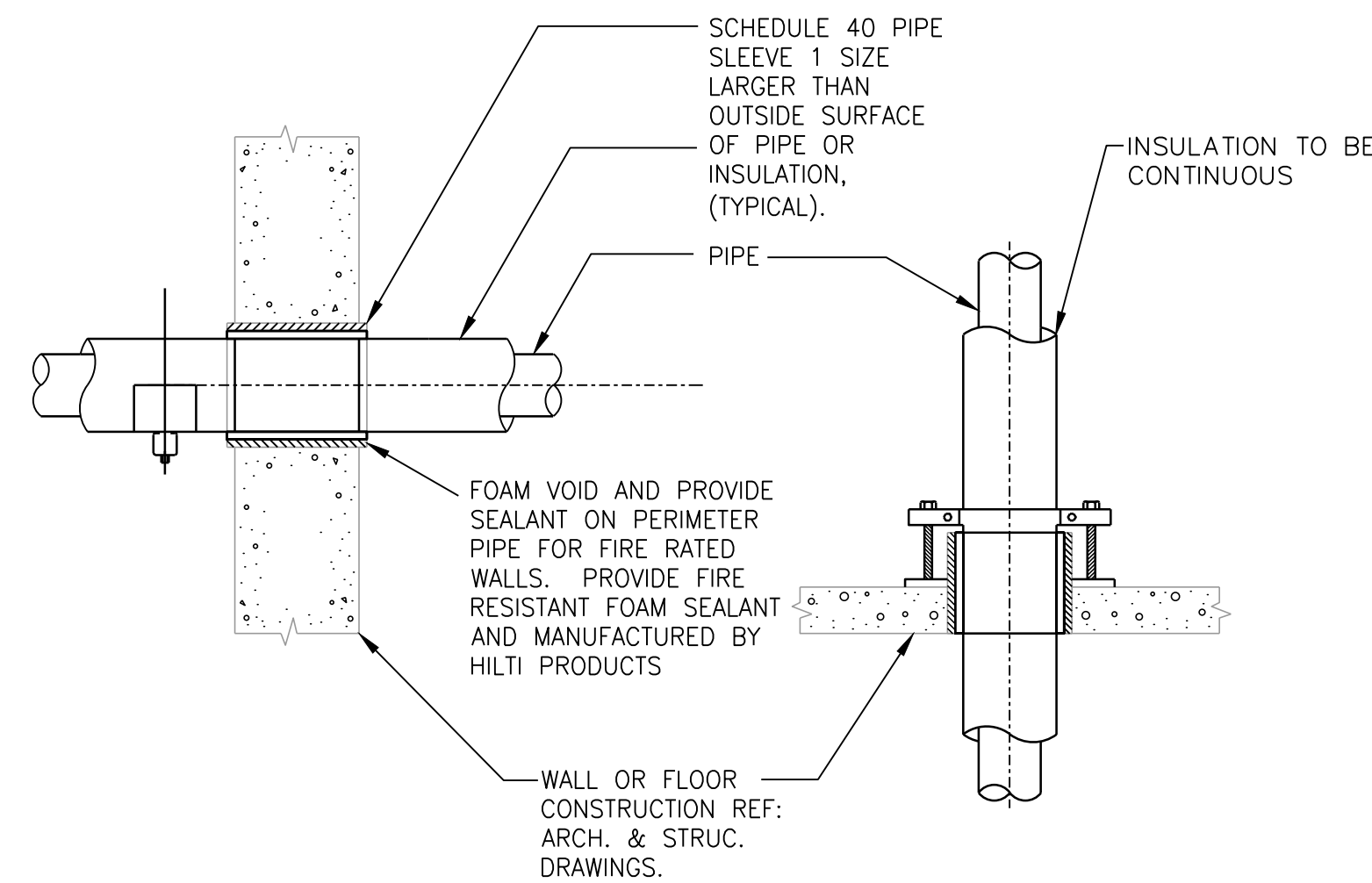
NOTES:
1. CONTRACTOR SHALL PROVIDE SECTION OF RIGID INSULATION BETWEEN SADDLE SUPPORT AND PIPE AS REQUIRED TO PREVENT DAMAGE TO INSULATION. HANGER SHALL NOT BE ON THE INTERIOR OF THE INSULATION.



4 PIPE SUPPORT DETAIL
NO SCALE



5 MODULAR COMPRESSION PIPE SEAL AND SLEEVE DETAIL
NO SCALE (EXTERIOR PENETRATIONS)



6 PIPE SLEEVE DETAILS
NO SCALE

Prefco
Ceiling Radiation Damper
2 Hour Rated
For Use in Static Systems
Models 5660 Submittal
Filename: Prefco Submittal 5660 Rev 03/12/04

Application
The Model 5660 provides fire and heat radiation protection of HVAC penetrations in floor/ceiling and roof/ceiling assemblies with restrained or unrestrained ratings of 2 hours or less. Standard fire dampers (1 1/2 & 3 ft) do not provide the required protection.

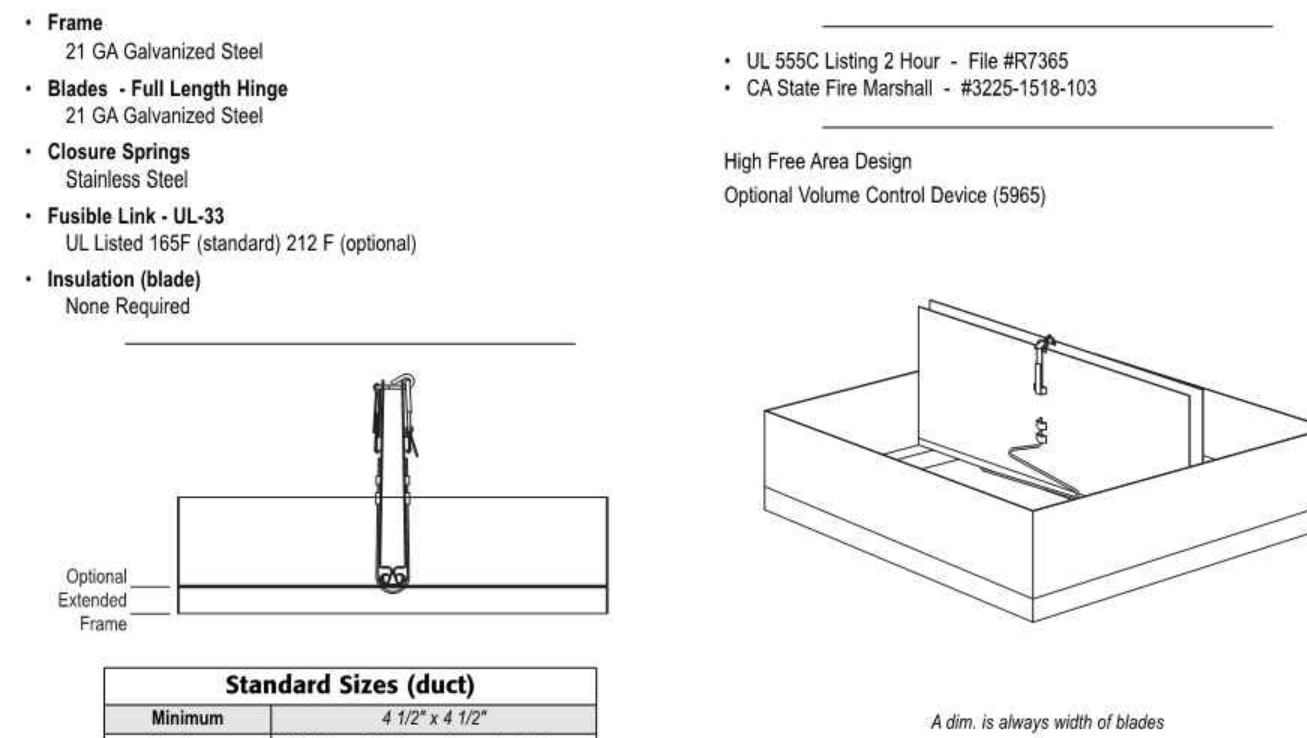
Standard Construction

- Frames
21 GA Galvanized Steel
- Blades - Full Length Hinge
21 GA Galvanized Steel
- Closure Springs
Stainless Steel
- Fusible Link - UL-33
UL Listed 165F (standard) 212 F (optional)
- Insulation (blade)
None Required

Models 5660 meet or comply with the following as a ceiling radiation damper:

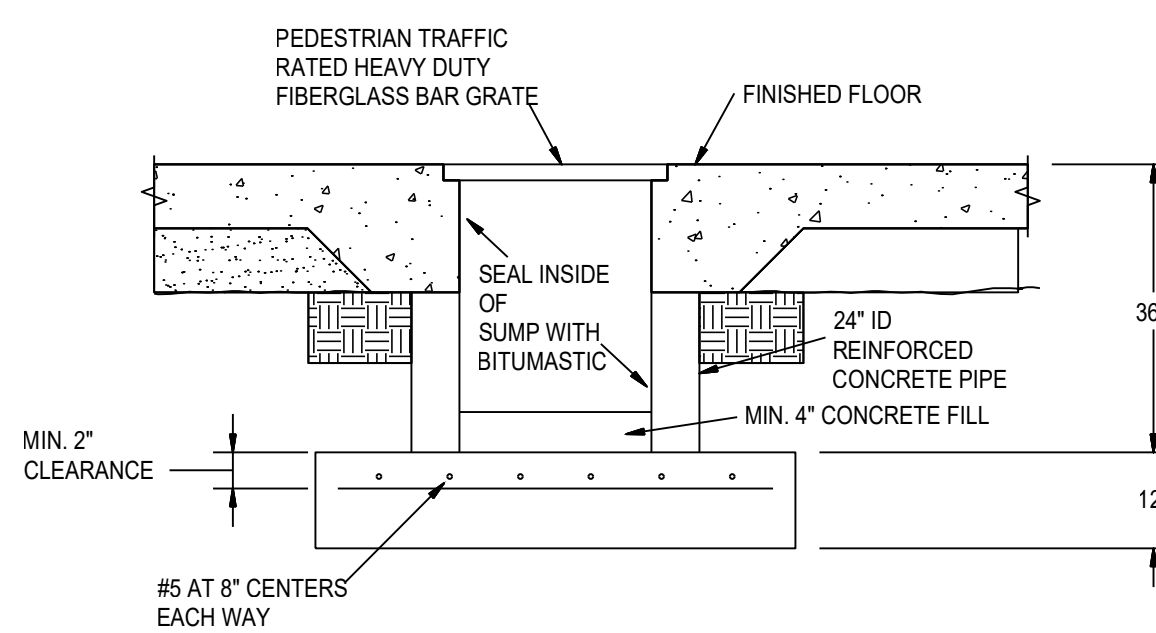
- NFPA Standards
- All major building codes, including BOCA, ICBO/UBC, SBCCI & ICC International Code
- UL 555C Listing 2 Hour - File #R7265
- CA State Fire Marshall - #3225-1516-103

High Free Area Design
Optional Volume Control Device (5965)

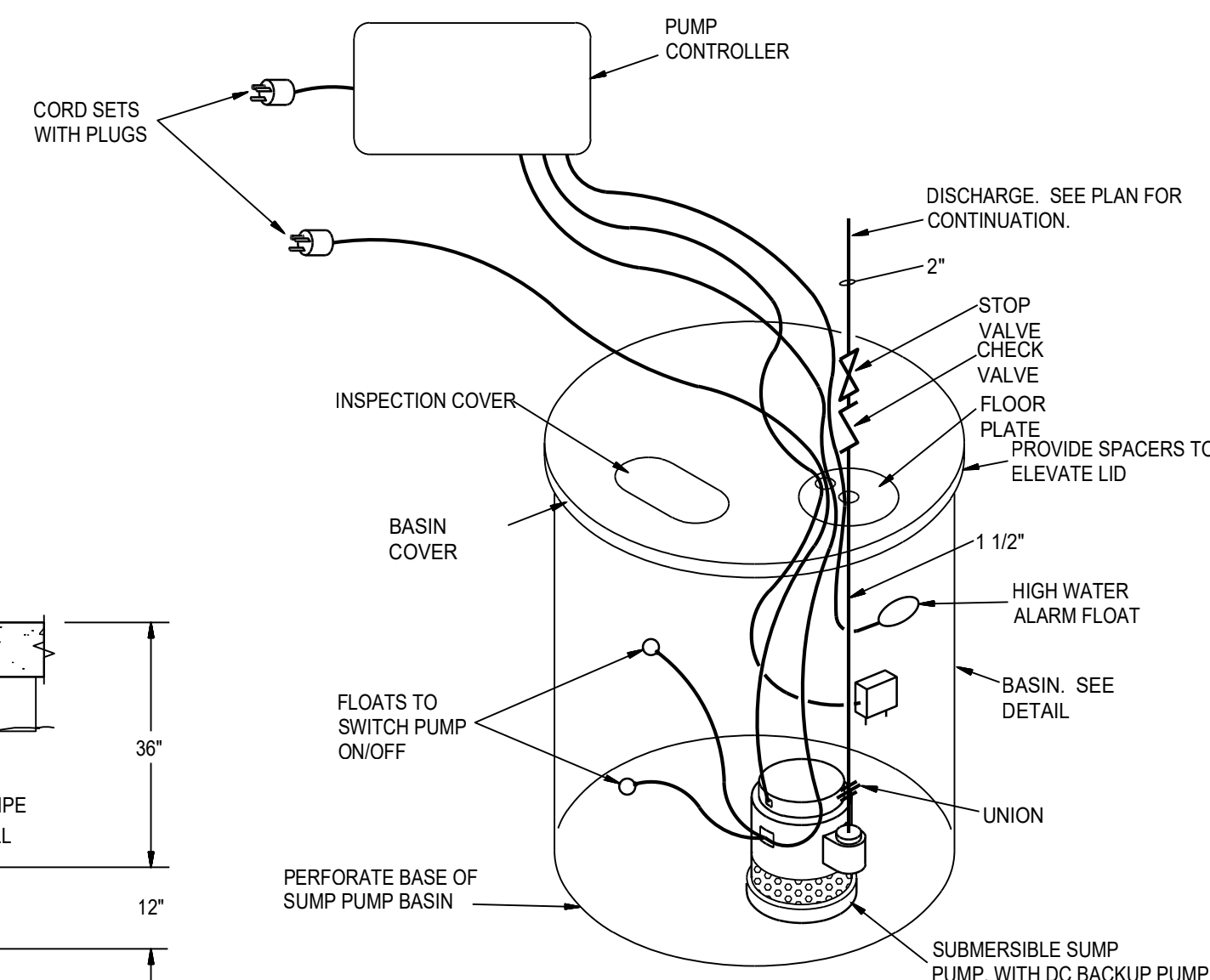


NOTES:
• Dampers are fabricated 3/16\"/>

8 CEILING RADIATION DAMPER DETAIL
NO SCALE

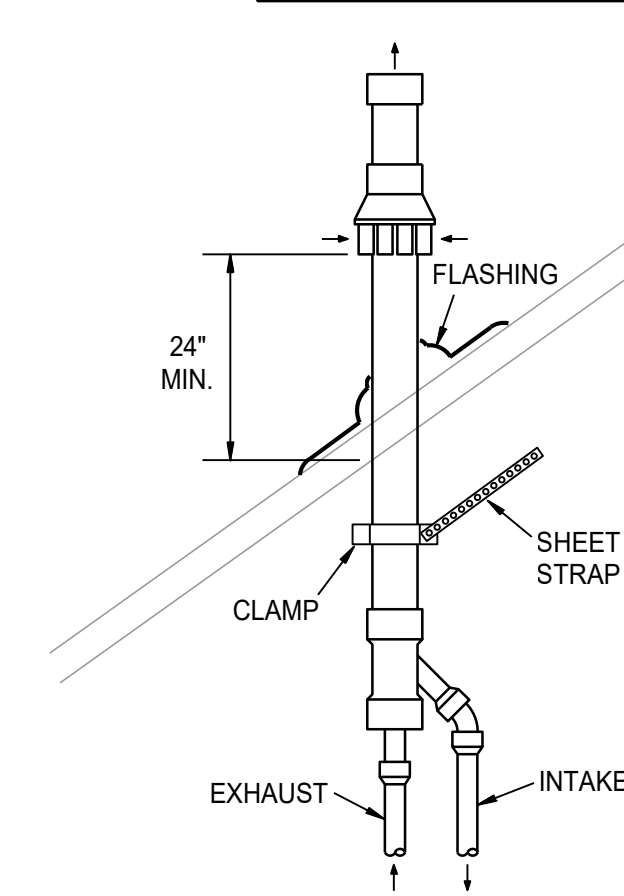


9 SUMP PIT DETAIL
NO SCALE



10 SUMP PUMP DETAIL
NO SCALE

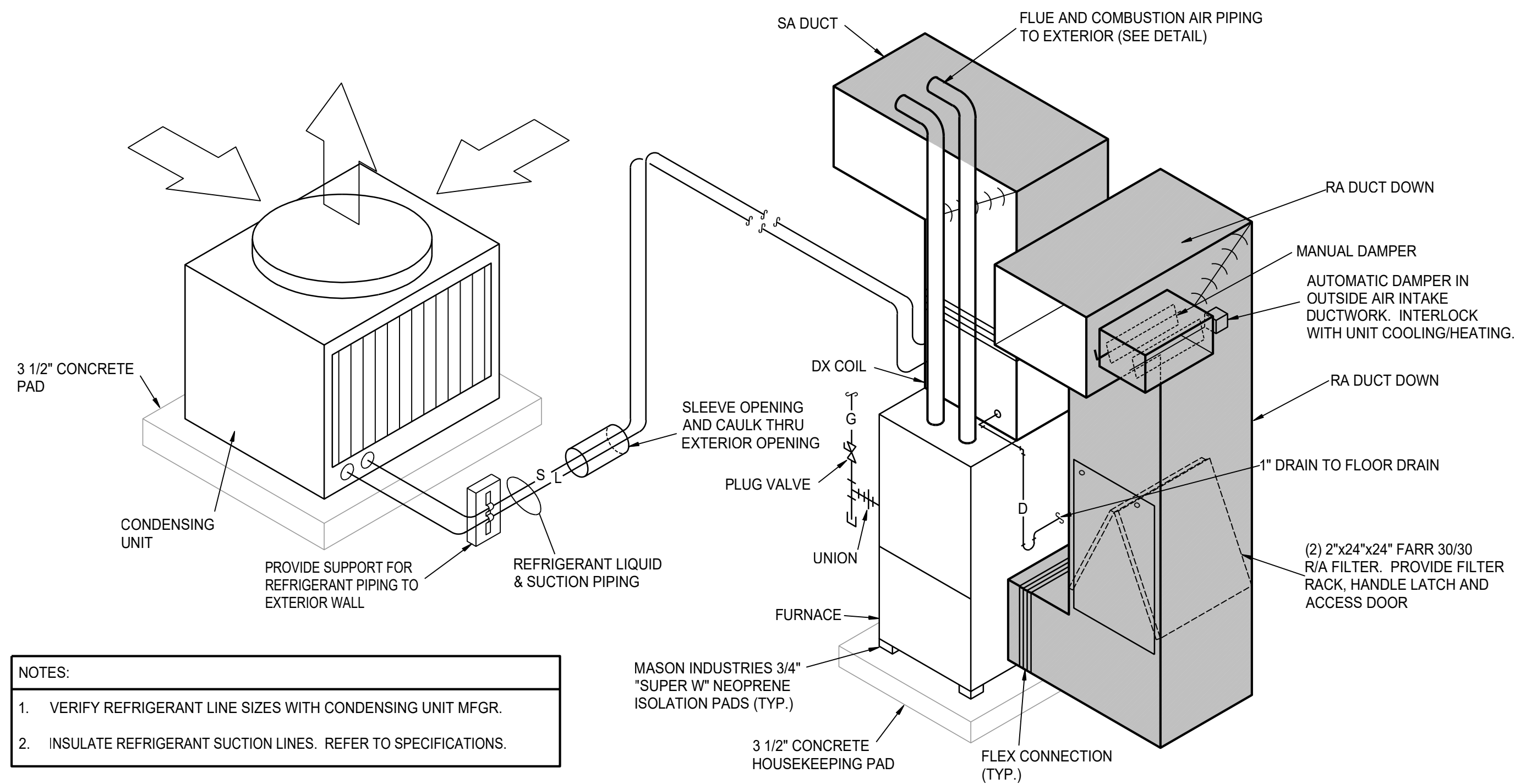
PVC VENT FITTING MATERIAL:	
STRAIGHT PIPE SECTIONS	MATERIAL SUITABLE FOR VENT SECTIONS: SCHEDULE 40 NSF-PW PVC 1120 ASTM D1785; OR SCHEDULE 40 ASTM D1785 AND D2665 (dual marked); OR PVC - DWV ASTM D2665.
COUPLINGS 45° ELBOWS, 60° ELBOWS, 90° ELBOWS, VENT OR SANITARY TEE.	MATERIAL SUITABLE FOR VENT FITTING: SCHEDULE 40 PVC TYPE 1 ASTM D2466; OR PVC - DWV ASTM D2665.



11 CONCENTRIC VENT AND INTAKE TERMINATION DETAIL
NO SCALE (FURNACE, WH)

NOTES:

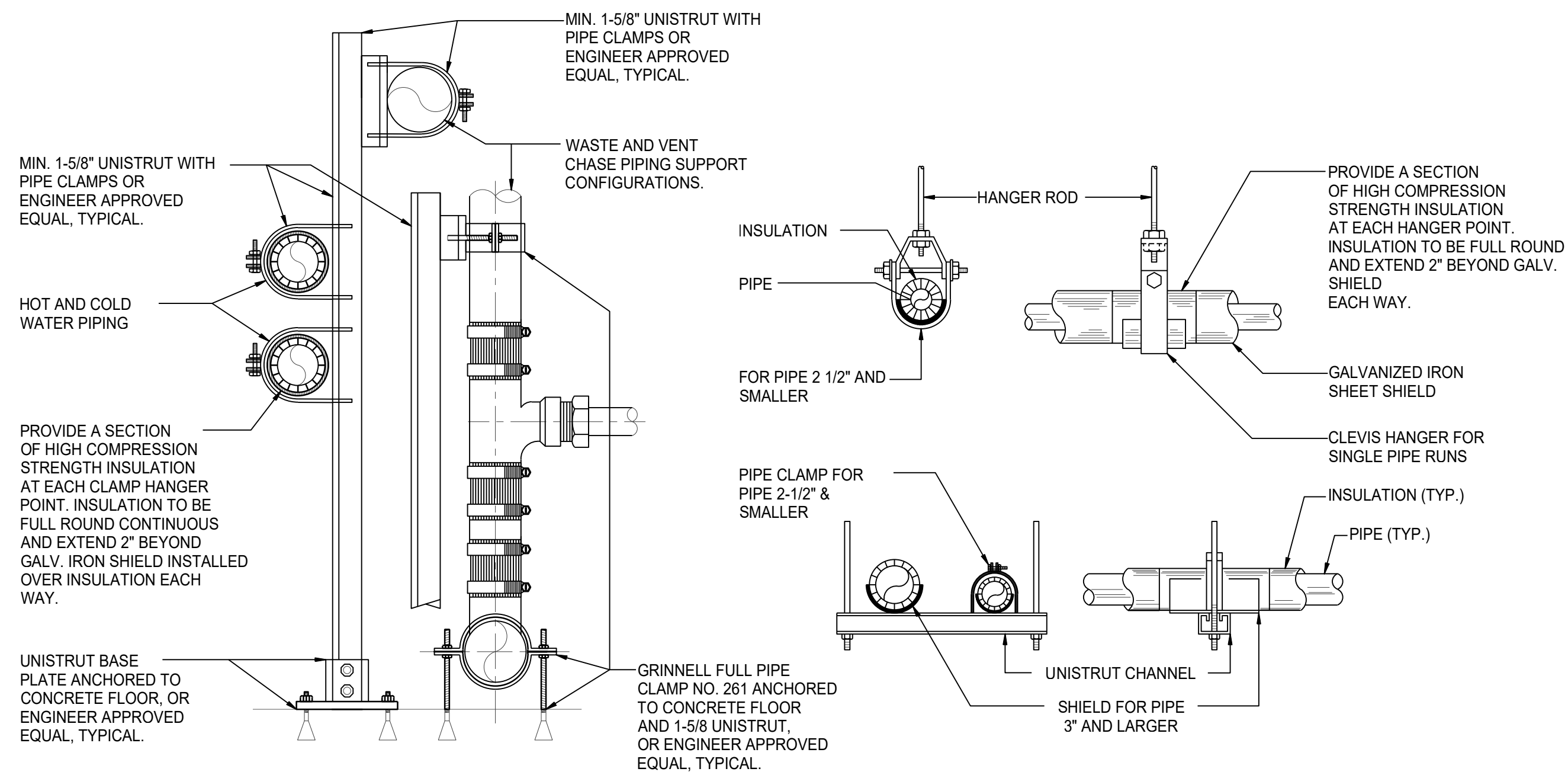
1. INSTALL PER MANUFACTURER'S VENTING REQUIREMENTS. DO NOT EXCEED MAXIMUM EQUIVALENT LENGTH AND/OR ELBOWS
2. LOCATE MINIMUM 10' HORIZONTALLY FROM OBJECTS HIGHER THAN ROOF SURFACE.
3. SLOPE BOTH INTAKE AND EXHAUST PIPING TOWARD APPLIANCE A MINIMUM OF 1/4" PER FT. THERE SHALL BE NO LOW SPOTS TO TRAP CONDENSATE.
4. ALL PIPING MUST BE SUPPORTED WITH VIBRATION ISOLATION HANGERS. AVOID RIGID CONTACT WITH OTHER PIPING AND STRUCTURAL MEMBERS.
5. REFER TO MANUFACTURER'S GUIDE FOR PIPING SUPPORT AND SPANS TO SUPPORT WEIGHT OF VERTICAL RISER AND PREVENT SAGGING.



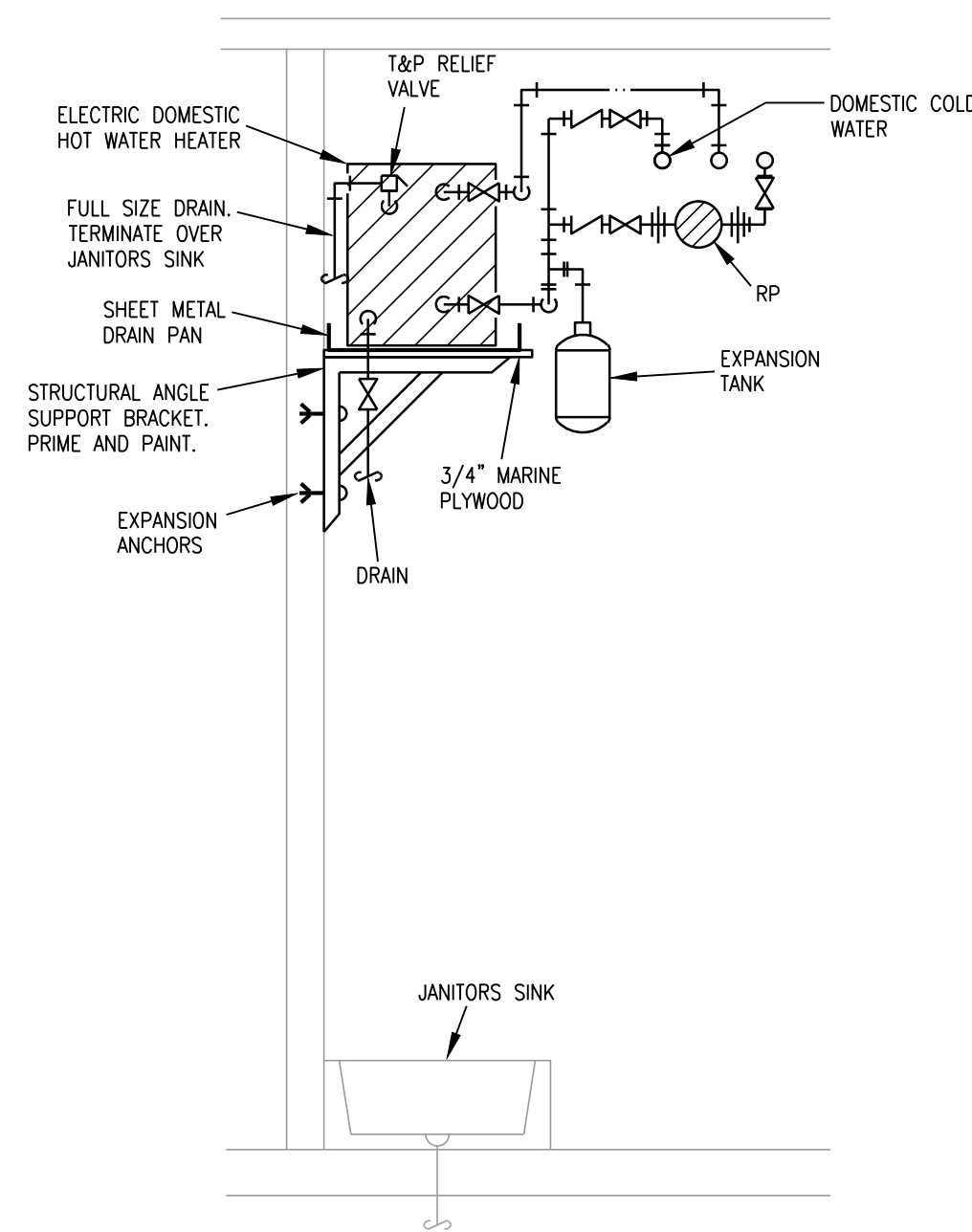
- NOTES:
1. VERIFY REFRIGERANT LINE SIZES WITH CONDENSING UNIT MFR.
 2. INSULATE REFRIGERANT SUCTION LINES. REFER TO SPECIFICATIONS.

1 FURNACE AND CONDENSING UNIT DETAIL
NO SCALE

STORM DRAINAGE PUMP SCHEDULE					
MARK	MANUFACTURER	MODEL NUMBER	FLOW CHARACTERISTICS	ELECTRICAL CHARACTERISTICS	ACCESSORIES
SD-1	ZOELLER	508-0011	45 GPM, 15' TDH (PRIMARY) 20 GPM, 15' TDH (SECIBDARY) 1 1/2" DISCHARGE	1/2 HP, 120VAC, 1750 RPM 1/3 HP, DC BATTERY	PUMP CONTROLLER, BATTERY BACKUP, WATER ALARM WITH HIGH LEVEL SENSOR AND FLOAT SWITCHES. PROVIDE 23"X60" FIBERGLASS BASIN WITH HEAVY DUTY COVER.



3 WATER, WASTE AND VENT PIPING HANGERS AND SUPPORT DETAIL
NO SCALE



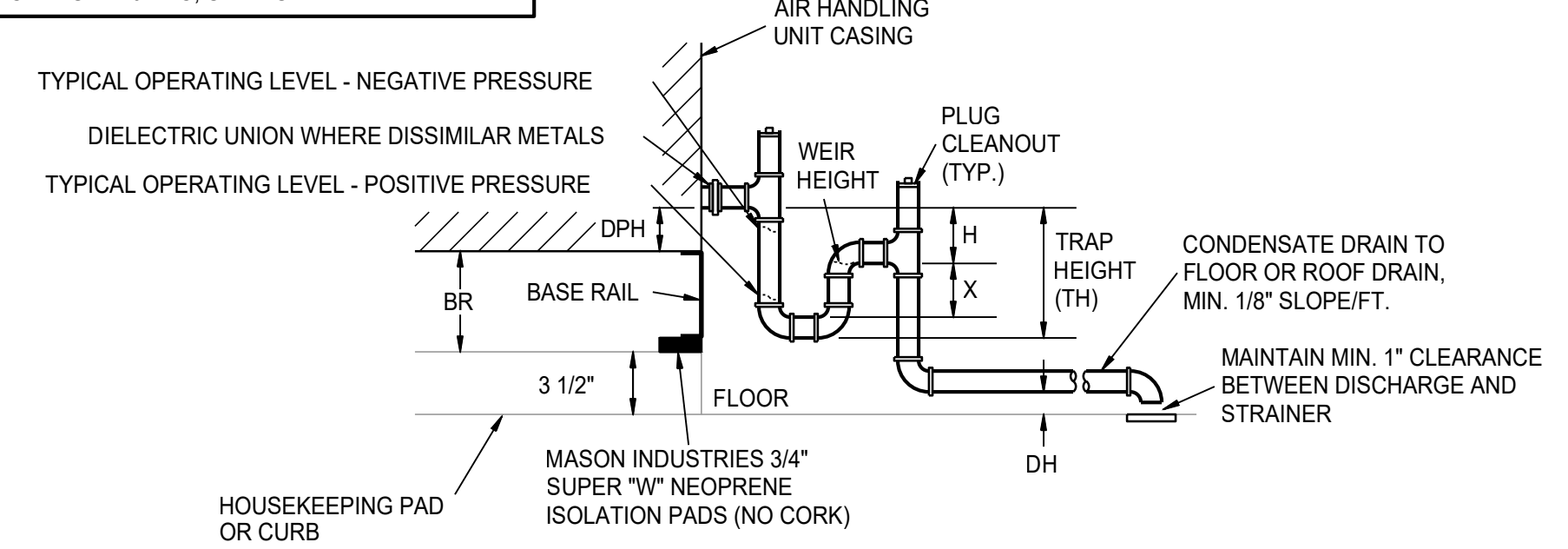
4 DOMESTIC HOT WATER HEATER DETAIL
NO SCALE

CASING STATIC PRESSURE ("W.C.)	NEGATIVE PRESSURE (DRAW-THRU)				POSITIVE PRESSURE (BLOW-THRU)			
	"H"	"X"	"TH"	"BR"	"H"	"X"	"TH"	"BR"
1	2"	2"	6 1/4"	6"	1"	2"	5 1/4"	6"
2	3"	3"	8 1/4"	6"	1"	3"	6 1/4"	6"
3	4"	4"	10 1/4"	7"	1"	4"	7 1/4"	6"
4	5"	5"	12 1/4"	9"	1"	5"	8 1/4"	6"

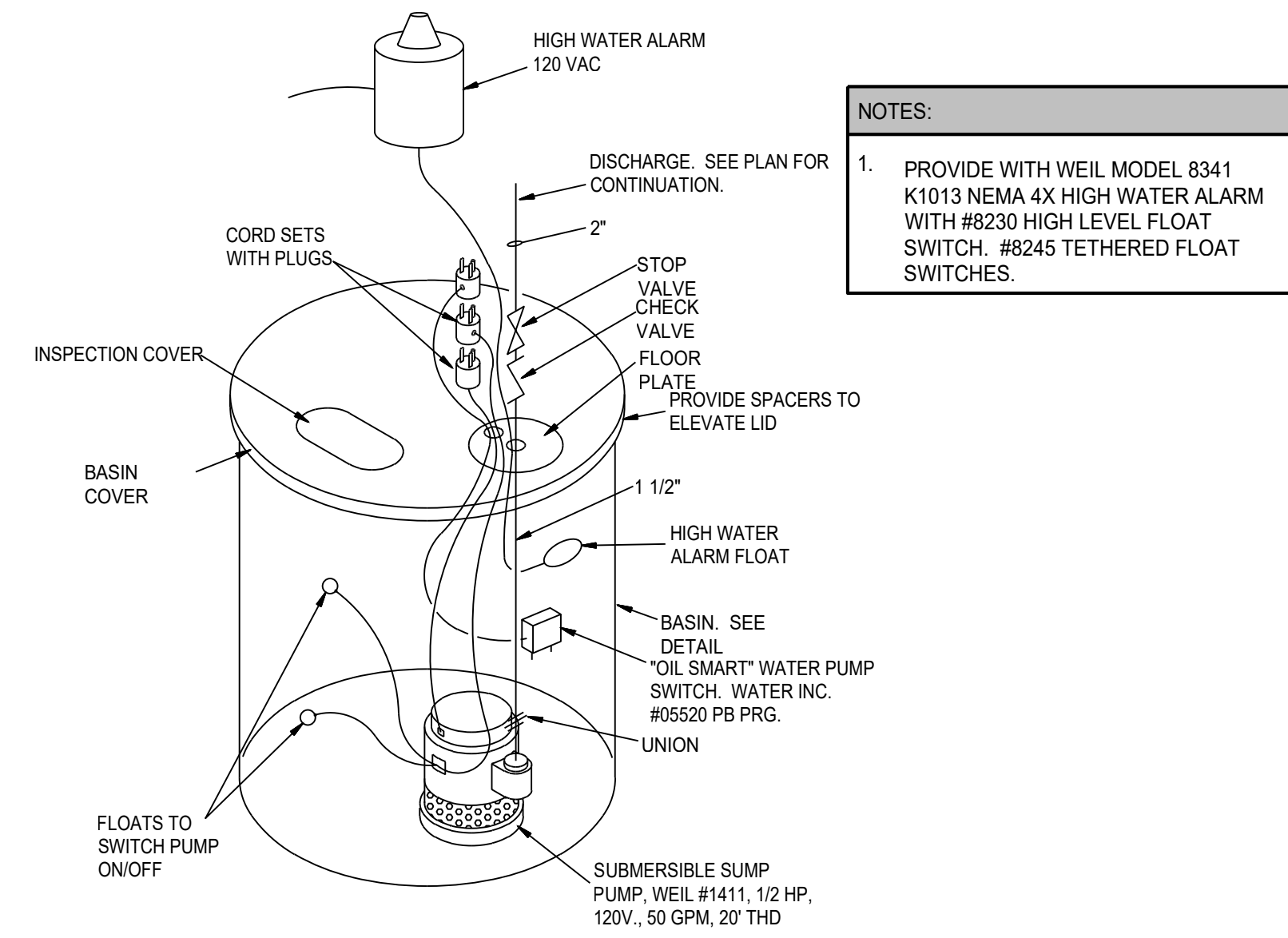
- NOTES:
1. "H" ALLOWS 1" FOR DIRTY FILTER.
 2. CALCULATIONS BASED ON 1 1/2" DRAIN CONNECTION AND 2" DRAIN HEIGHT (DH). FIELD VERIFY.
 3. BASE RAIL (BR) MAY BE REDUCED BY DRAIN PAN HEIGHT (DPH) TO MATCH REQUIREMENTS, BUT NOT LESS THAN 6" UNLESS CLEARANCE DIMENSIONS DICTATE OTHERWISE.

MINIMUM TRAP PIPE DIAMETER	
UP TO 10 TONS - 3/4"	OR MANUFACTURER'S DRAIN CONNECTION
10 TO 20 TONS - 1"	OR MANUFACTURER'S DRAIN CONNECTION
20 TO 40 TONS - 1 1/4"	OR MANUFACTURER'S DRAIN CONNECTION
40 TONS AND ABOVE - 1 1/2"	OR MANUFACTURER'S DRAIN CONNECTION

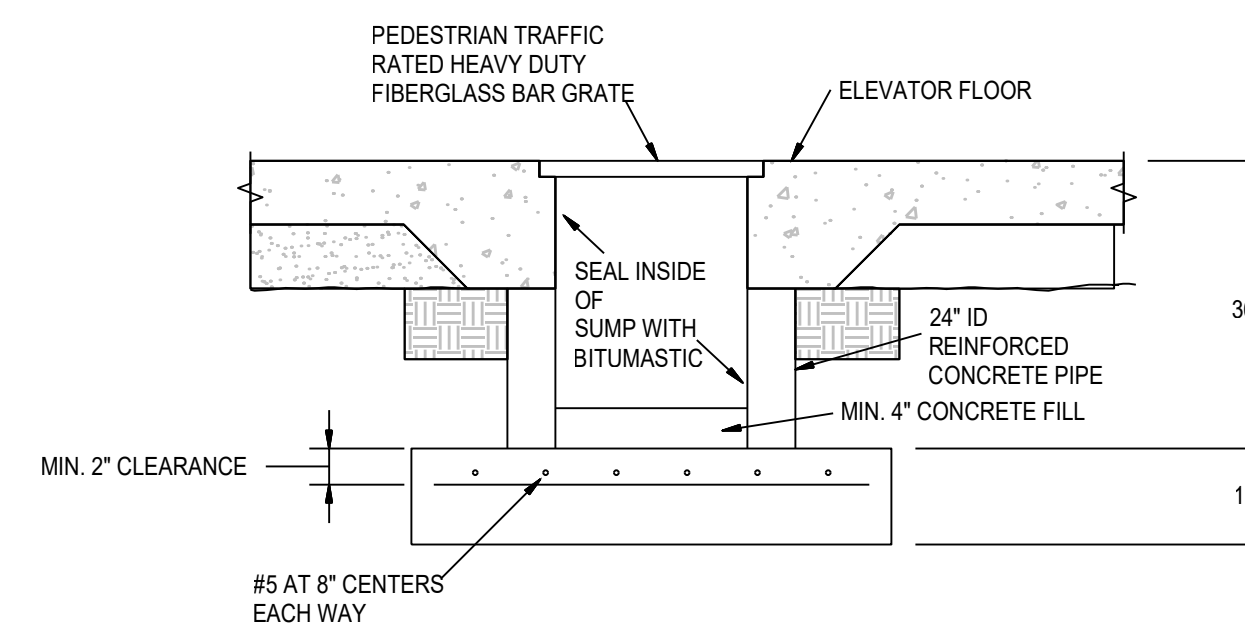
TYPICAL PIPE MATERIAL	
INDOOR AHU'S:	TYPE "L" COPPER WITH CLOSED CELL ARMAFLEX
OUTDOOR AHU'S/RTU'S:	SCHEDULE 40 PVC, UNINSULATED



2 COOLING COIL CONDENSATE TRAP DETAIL
NO SCALE



5 SUMP PUMP DETAIL (ELEVATOR)
NO SCALE (SD-1 SIMILAR)



6 ELEVATOR SUMP PIT DETAIL
NO SCALE

FIELD DEPENDENT DIMENSIONS

BR = (BASE RAIL) = 6" MINIMUM OR HEIGHT AS REQUIRED TO ACHIEVE TRAP HEIGHT (TH), DRAIN HEIGHT (DH), AND MAINTAIN AHU ROOM CLEARANCES

DH = (DRAIN HEIGHT) = MINIMUM REQUIRED FOR GRAVITY DRAINAGE TO FLOOR/ROOF DRAIN AT 1/8" SLOPE/FOOT

DPH = (DRAIN PAN HEIGHT) = VARIES BY MFR/UNIT

NEGATIVE STATIC PRESSURE

X = "H"
H = AT LEAST 1" + CASING STATIC PRESSURE ("W.C.)
TH = (TRAP HEIGHT) = X+H+(1.5xPIPE DIA.)

POSITIVE STATIC PRESSURE

X = AT LEAST 1" + CASING STATIC PRESSURE ("W.C.)
H = AT LEAST 1"
TH = (TRAP HEIGHT) = X+H+(1.5xPIPE DIA.)

* ALLOWANCE FOR DIRTY FILTER. CASING STATIC SHALL BE BASED ON ACTUAL CLEAN FILTER USED.

PLUMBING FIXTURE SCHEDULE					
MARK	MANUFACTURER/ MODEL	DESCRIPTION	FITTINGS		REMARKS
			MANUFACTURER/ MODEL	DESCRIPTION	
P-1	ZURN Z5665 ZURN Z595655-EL	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOWLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION. SEAT: SOLID PLASTIC OPEN FRONT, WHITE FOR AN ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN ROYAL 111 SMO	BATTERY SENSOR ACTIVATED, EXPOSED WATER CLOSET FLUSH VALVE, CHROME PLATED METAL OSCILLATING NON-HOLD-OPEN HANDLE, 1" I.P.S. SCREWDRIVER BAK-CHECK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON. PROVIDE WALL AND SPUD FLANGES. MOUNT HANDLE AT 24" AFF.	9
P-2	ZURN Z5798	ADA COMPLIANT URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SIPHON JET FLUSHING ACTION. MOUNT FIXTURE RIM AT 17" AFF. PROVIDE FLOOR MOUNTED, HEAVY DUTY TUBULAR STEEL UPRIGHTS, ADJUSTABLE CARRIER PLATED HANGAR AND ALL OTHER REQUIRED MOUNTING HARDWARE.	SLOAN ROYAL 186 SMO	BATTERY SENSOR ACTIVATED, EXPOSED URINAL FLUSH VALVE: CHROME PLATED METAL OSCILLATING NON-HOLD-OPEN HANDLE, 3/4" I.P.S. SCREWDRIVER BAK-CHECK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TAILPIECE, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD 1 GALLON. PROVIDE WALL AND SPUD FLANGES. MAX HANDLE HEIGHT IS 44"	
P-3	ZURN Z5341	LAVATORY: WHITE WALL HUNG VITREOUS CHINA LAVATORY, 20"x18", FOR USE WITH CONCEALED ARM CARRIER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.	SLOAN SF-2450	BATTERY SENSOR ACTIVATED FAUCET, 1/2" CONNECTIONS AND GRID DRAIN WITHOUT POP-UP HOLE. VANDAL RESISTANT 0.5 GPM SPRAY. POLISHED CHROME FINISH.	1, 2, 3, 6, 8
P-4	ELKAY ELUHAD131655	ADA COMPLIANT SINGLE COMPARTMENT SINK: SEAMLESS #18 GAUGE, TYPE 302 (18-8) NICKEL BEARING STAINLESS STEEL. IK-6K-H SATIN FINISH FULLY UNDERCOATED, HOLES AT 4" O.C., 5 3/8" BOWL DEPTH. 1 3/4" RADIUS COVED CORNERS. SELF RIMMING.	ZURN Z81284-XL	CENTERSET GOOSENECK FAUCET WITH 4" METAL WRIST BLADE HANDLES, 1/2" CONNECTIONS, WITHOUT DRAIN AND POP-UP HOLE. POLISHED CHROME FINISH. PROVIDE BASKET STRAINER AND DRAIN.	1, 2, 3, 6, 8
P-5	HALSEY-TAYLOR HTHB-HACGBLSS-WF	ADA COMPLIANT DUAL HEIGHT ELECTRIC WATER COOLER: BARRIER FREE WATER COOLER PROVIDING 8 GPM OF 50 DEGREE WATER AT 90 DEGREE AMBIENT. FRONT AND SIDE PUSHBARS, ADA COMPLIANT, LEAD FREE. MOUNT WITH MIN. 27" KNEE CLEARANCE AND SPOUT AT NO MORE THAN 36" AFF. PROVIDE WITH			7
P-6	FIAT MSB-2424	JANITOR'S SINK: 24"x24"x10" ONE PIECE MOLDED STONE MOP BASIN STAINLESS STEEL INTEGRAL DRAIN BODY WITH CALKED CONNECTION FOR 3" PIPE. COLOR SHALL BE WHITE AND UNIT SHALL BE ONE HOMOGENEOUS PIECE. PROVIDE WITH STAINLESS STEEL WALL GUARDS.	FIAT 830-AA	CHROME PLATED BRASS WALL MOUNTED FAUCET WITH VACUUM BREAKER. INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, 3/4" HOSE THREADED SPOUT, INDEXED HANDLES, PROVIDE HOSE AND BRACKET, MOP HANGAR AND HOSE RACK.	
P-7	IPS MIB1	GUY GRAY: ICE MAKER OUTLET BOX, 1/4" TURN VALVE, WHITE POWDER COAT STEEL.			

- REMARKS
1. PROVIDE CHROME PLATED BRASS P-TRAP
 2. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS
 3. INSULATED EXPOSED TAILPIECE, P-TRAPS, AND WATER RISERS
 4. PROVIDE CHROME PLATED BRASS TAILPIECE AND BASKET STRAINER
 5. PROVIDE A 1/2" DRAIN LINE TO JANITORS SINK, OR TO EXTERIOR AS SHOWN.
 6. PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN
 7. PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES.
 8. PROVIDE WATTS #LFUSG-B, ASSE1070 TEMPERING WATER VALVE.
 9. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.

PIPING MATERIAL SCHEDULE													
SYSTEM	PIPING						FITTINGS			MAXIMUM WORKING		FIELD TEST**	
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (°F)	PRESSURE (PSI)	TIME	
WASTE AND VENT - BELOW GRADE	ALL	PVC	40	-	D-2665	PVC	PVC	SW	5	80	10' ABOVE	30 MIN.	
WASTE AND VENT - ABOVE GRADE	ALL	CI	SV	-	A-74	CI	CI	NH	5	80	10' ABOVE	30 MIN	
DOMESTIC HOT AND COLD WATER	1/2" - 2"	L	-	-	B-88	CP	CP	SJ	85	40 TO 65	125	1 HR	
AIR CONDITIONING REFRIGERANT*	ALL	ACR	-	-	B-280	CP	CP	SS	225	30 TO 125	300	1 HR	
DRAIN LINE	ALL	M	-	-	B-88	CP	CP	SJ	0	40 TO 80	-	-	
GAS	ALL	ERW	40	-	A-53	CS	CS	W	10 PSIG	105	100	1 HR	

ABBREVIATIONS:

ACR - AIR CONDITIONING REFRIGERANT	ERW - ELECTRIC RESISTANT WELD	NH - NO HUB	SL - SEAMLESS
BLK - BLACK	F - FUSION WELD	P (PVC) - POLYVINYL CHLORIDE	SS - SILVER SOLDER
BS - BELL AND SPIGOT	GLV - GALVANIZED	PC - ROLLED GROOVED PIPE COUPLING	SV - SERVICE WEIGHT
CI - CAST IRON	MECH - MECHANICAL	PE - POLYETHYLENE	SW - SOLVENT WELD
CP - COPPER	MI - MALLEABLE IRON	PP - POLYPROPYLENE	T - THREADED
CS - CARBON STEEL	MJ - MECHANICAL JOINT	S - SOCKET JOINT	V - VITUALIC
DI - DUCTILE IRON	NG - NEOPRENE GASKET	SJ - SOLDER JOINT 95-5 TIN-ANTIMONY	W - WELDED

* NO REFRIGERANT PIPING SHALL BE INSTALLED UNTIL AN APPROVED REFRIGERANT PIPING SYSTEM DIAGRAM HAS BEEN PROVIDED BY THE MANUFACTURER. CONTRACTOR SHALL VERIFY ALL SIZES AND ROUTING WITH MANUFACTURER PRIOR TO INSTALLATION.
** REFER TO SPECIFICATION FOR TESTING REQUIREMENTS AND METHOD.

- NOTES:
1. CONTRACTOR MAY NOT USE TEE-DRILL BRANCH TAKEOFFS.
 2. ALL PIPING SHALL PASS PRESSURE TESTING AND SHALL BE INSPECTED BY THE CONTRACTING OFFICER PRIOR TO THE INSTALLATION OF INSULATION.

STOP VALVE SCHEDULE									
SYSTEM STOP VALVE	TYPE	SIZE	BODY MATERIAL	BONNET/ PACKING GLAND DESIGN	DISC/BALL MATERIAL	STEM MATERIAL	PACKING MATERIAL AND SEATS	PRESSURE RATING	REMARKS
DOMESTIC WATER	BALL, FULL PORT	1/2" TO 2 1/2"	BRONZE, B-584 OR B-62 BRONZE	ADJUSTABLE WITHOUT REMOVAL OF HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	600 PSI CWP	PROVIDE THREADED OR SOLDERED ENDS AS REQUIRED BY PIPING SYSTEM CERTIFIED LEAD FREE
GAS	LUBRICATED PLUG	1/2" TO 2 1/2"	STEEL	BLOWOUT PROOF	STEEL	STEEL	REINFORCED TEFLON	250 PSI NATURAL GAS SERVICE	THREADED ENDS

DIFFUSER SCHEDULE																	
MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING				APPLICATION				FINISH	NECK CONFIGURATION	DAMPER	REMARKS		
				T BAR GRID	DUCT	SURFACE	WALL	SUPPLY	RETURN	TRANSFER	EXHAUST						
A	EH PRICE	635	ALUMINUM, 1/2" BLADE SPACING, WALL MOUNT RETURN GRILLE				X				X			B12 WHITE	NECK SIZE AS INDICATED ON PLANS	NO	VERIFY COLOR WITH ARCHITECT
B	EH PRICE	AMD - 1 - 4A	ALUMINUM, REPLACABLE CORE, FIXED AIR PATTERN DIFFUSER. WITH TYPE 1 SURFACE FRAME. 4 WAY BLOW, SQUARE LOUVERED SUPPLY AIR DIFFUSER	X		X		X						B12 WHITE	NECK SIZE AS INDICATED ON PLANS	NO	VERIFY CEILING TYPE WITH ARCHITECT VERIFY COLOR WITH ARCHITECT
C	EH PRICE	620	ALUMINUM, DOUBLE DEFLECTION, WALL MOUNT SUPPLY AIR GRILLE				X	X						B12 WHITE	NECK SIZE AS INDICATED ON PLANS	NO	VERIFY COLOR WITH ARCHITECT
D	EH PRICE	AMD - 1 - 15	ALUMINUM, REPLACABLE CORE, FIXED AIR PATTERN DIFFUSER. WITH TYPE 1 SURFACE FRAME. 1 WAY BLOW, SQUARE LOUVERED EXHAUST, RETURN AIR OR CEILING AIR TRANSFER	X		X					X			B12 WHITE	NECK SIZE AS INDICATED ON PLANS	NO	VERIFY CEILING TYPE WITH ARCHITECT VERIFY COLOR WITH ARCHITECT

EXHAUST FAN SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPERATING CHARACTERISTICS		FINISH/MATERIAL	ELECTRICAL CHARACTERISTICS	DAMPER	REMARKS
				CFM	TOTAL STATIC PRESSURE				
EF-1	GREENHECK	SQ 90 VG	IN-LINE DIRECT DRIVE EXHAUST FAN	250	0.50" W.G.	HOUSING OF GAVANIZED HEAVY GAUGE STEEL WITH ALUMINUM BACKWARD INCLINED NON-OVERLOADING CENTRIFUGAL FAN WHEEL	1/6 HP "VARI-GREEN" MOTOR 120 V 1 PHASE	MOTORIZED	PROVIDE ELECTRONIC SPEED CONTROL, PROVIDE ELECTRIC MOTORIZED DAMPER

FURNACE SCHEDULE																
Unit	Manufacturer	Model Size	Evaporator Size	CFM	O/A CFM	EST ESP	Evaporator		Heat Input (MBH)	Heat Output (MBH)	Inlet Air Size	Flue Size	Elect. Characteristics	MCA	MOCP	Remarks
							EAT Db/Wb	LAT Db/Wb								
F-1	Trane	S9X2B	4TXC	1000	180	0.7	79/65	58/56	66	64	3"	3"	120/1/60	9.3	15	1-4
F-2	Trane	S9X2B	4TXC	800	80	0.7	79/65	58/56	66	64	3"	3"	120/1/60	9.3	15	1-4
F-3	Trane	S9X2B	4TXC	800	80	0.7	79/65	58/56	66	64	3"	3"	120/1/60	9.3	15	1-4

- REMARKS:
1. CONNECT TO OUTDOOR HEAT PUMP.
 2. VERIFY REFRIGERANT LINE SIZING, ROUTING, AND REQUIRED ACCESSORIES WITH MANUFACTURER INCLUDING ACTUAL LINE LENGTHS AND DIFFERENCE IN ELEVATION.
 3. PROVIDE WITH GAS HEAT WHEN BELOW 25°F (ADJUSTABLE).
 4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.

DOMESTIC HOT WATER HEATERS SCHEDULE								
MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (GALLONS)	INPUT (KW)	VOLTS, PHASE	MCA	MOCP	REMARKS
WH-1	A.O. SMITH	DEL-20	20	3	240V., 1PH.	16	20	1,2

- REMARKS:
1. PROVIDE DRAIN PAN UNDER WATER HEATER.
 2. NON-SIMULTANEOUS DUAL ELEMENT.

ELECTRIC HEATER SCHEDULE									
Unit	Manufacturer	Model	Input (KW)	Output (MBH)	MOUNTING	Elect. Char	MCA	MOCP	Remarks
EUH-1	BERKO	CWH3504F	4.8	16.4	SURFACE	240 V/ 1PH	20	25	1,2,3,4

- REMARKS:
1. Provide with unit mounted SPST thermostat with setpoint adjustment.
 2. Thermostat to energize heater and fan upon a call for heating.
 3. Provide with factory mounted integral disconnect switch and single point power connection.
 4. Recessed wall mount.

PIPING INSULATION SCHEDULE					
SYSTEM	SIZE	TYPE	THICKNESS	JACKET	REMARKS
DOMESTIC COLD WATER	1/2" THRU 1-1/2"	PHC	1"	ASJ	
DOMESTIC HOT WATER	1/2" THRU 1 1/4"	PHC	1-1/2"	ASJ	
DOMESTIC COLD WATER VALVES	ALL	EC	1/2"	NA	
AIR CONDITIONING REFRIGERANT	ALL	1-PHC	1"	ASJ	1
CONDENSATE DRAIN	ALL	1-EC	1/2"	-	

ABBREVIATIONS:
EC: FLEXIBLE CELLULAR FOAM
PHC: PRE-MOLDED FIBERGLASS PIPE INSULATION
ASJ: ALL SERVICE JACKET
1-EC = FLEXIBLE CALLULUR FOAM, SHEET STOCK
1-PHC = PRE-MOLDED FIBERGLASS PIPE INSULATION

- REMARKS:
1. PROVIDE .016" THICK ALUMINUM JACKET WITH BAND CLAMPS OVER ALL PIPE INSULATION ON EXTERIOR OF BUILDING

HEAT PUMP SCHEDULE										
Unit	Manufacturer	Model	Total MBH	Sensible MBH	Refrigerant Line Sizing		Elect. Characteristics	MCA	MOCP	Remarks
					Suction Line	Liquid Line				
HP-1	Trane	4TWR4	30.5	23.2	3/4	3/8	240/60/1	16	25	1-4
HP-2	Trane	4TWR4	22.5	17.9	3/4	3/8	240/60/1	14	25	1-4
HP-3	Trane	4TWR4	22.5	17.9	3/4	3/8	240/60/1	14	25	1-4

- REMARKS:
1. Outdoor unit disconnect by electrical contractor.
 2. Verify refrigerant line sizing, routing and required accessories with Manufacturer for actual refrigerant line lengths and elevation differences.
 3. Provide with hail guard.
 4. Provide with 6" riser feet mounted to housekeeping pad.

ELECTRIC REHEAT COIL SCHEDULE									
Unit	Manufacturer	CFM	KW	MBH	CONTROL	Elect. Characteristics	MCA	MOCP	Remarks
RH-1	Trane	800	5	17	SCR	240/1/60	21	30	1-2

- REMARKS:
1. CONNECT TO RESPECTIVE UNIT.
 2. PROVIDE CONTROLS AND SPACE HUMIDITY SENSOR.



4-15-24

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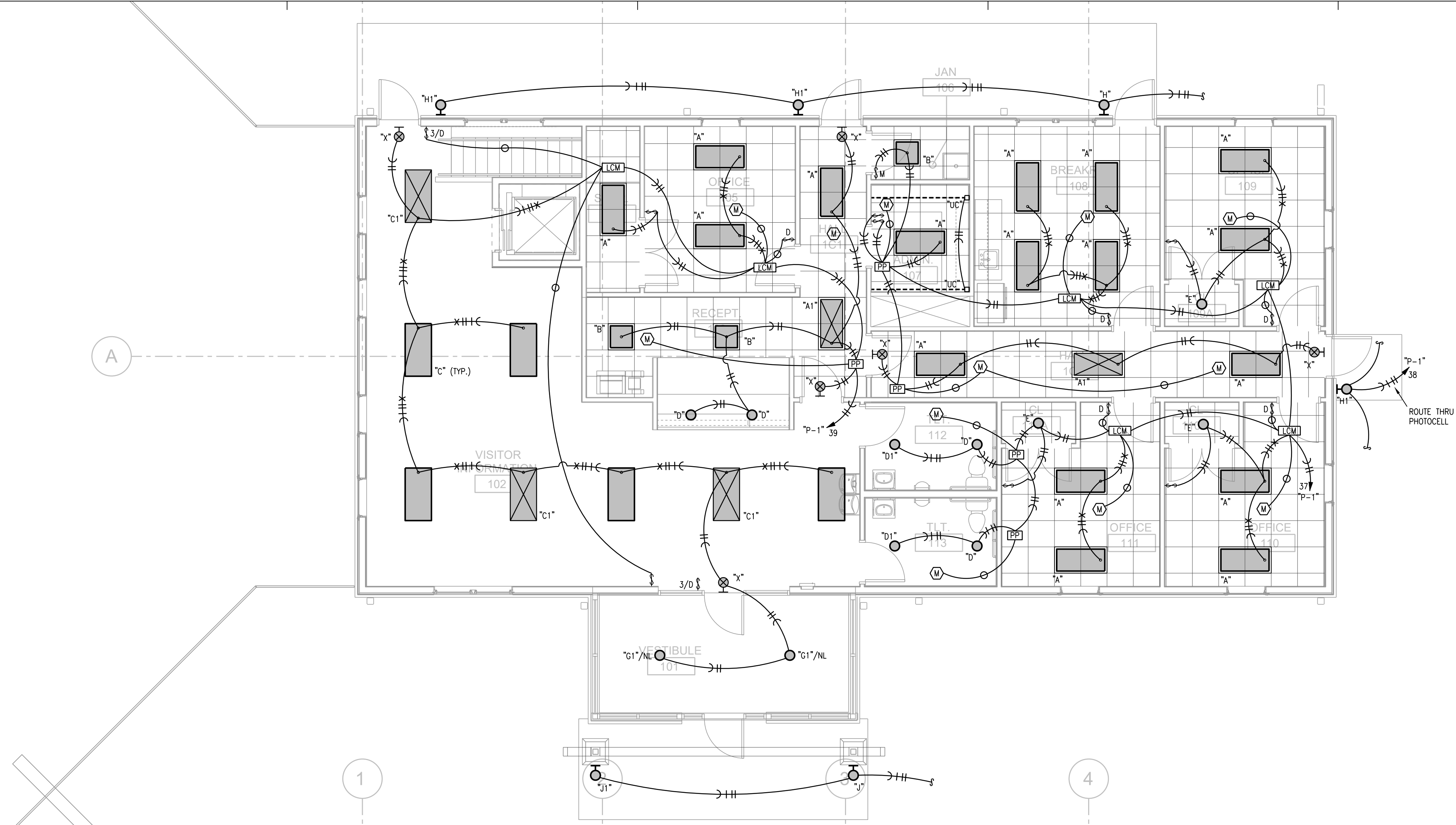
Kansas Department of Wildlife & Parks
Kanopolis Visitor Center
New Construction
200 Horsethief Rd., Marquette, KS 67464
BUILDING NUMBER 71000-27677
REV. JGW
DATE: 9/30/2024 DRAWN BY: CAD

MECHANICAL SCHEDULES

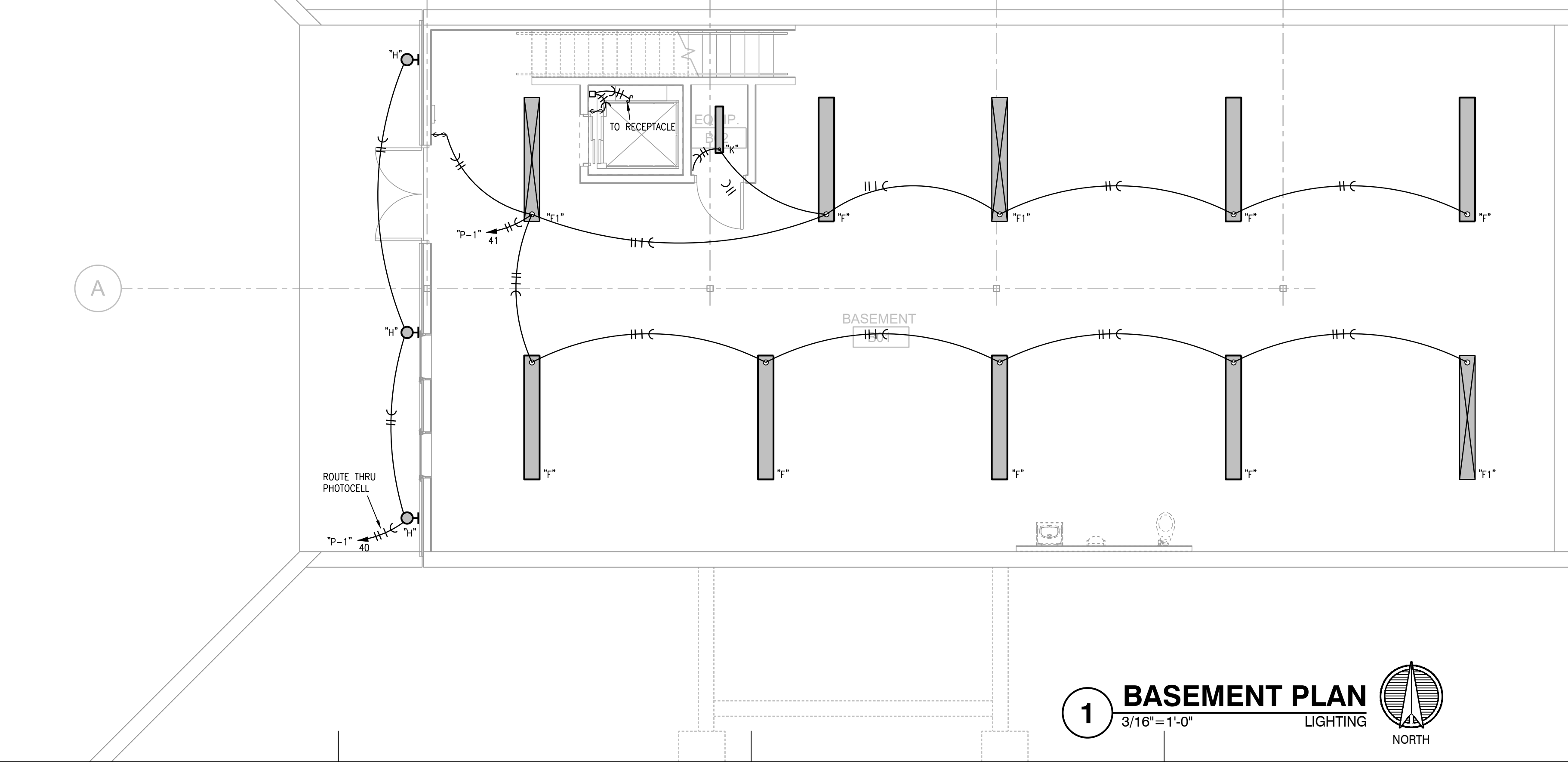
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CONSTRUCTION DOCUMENTS

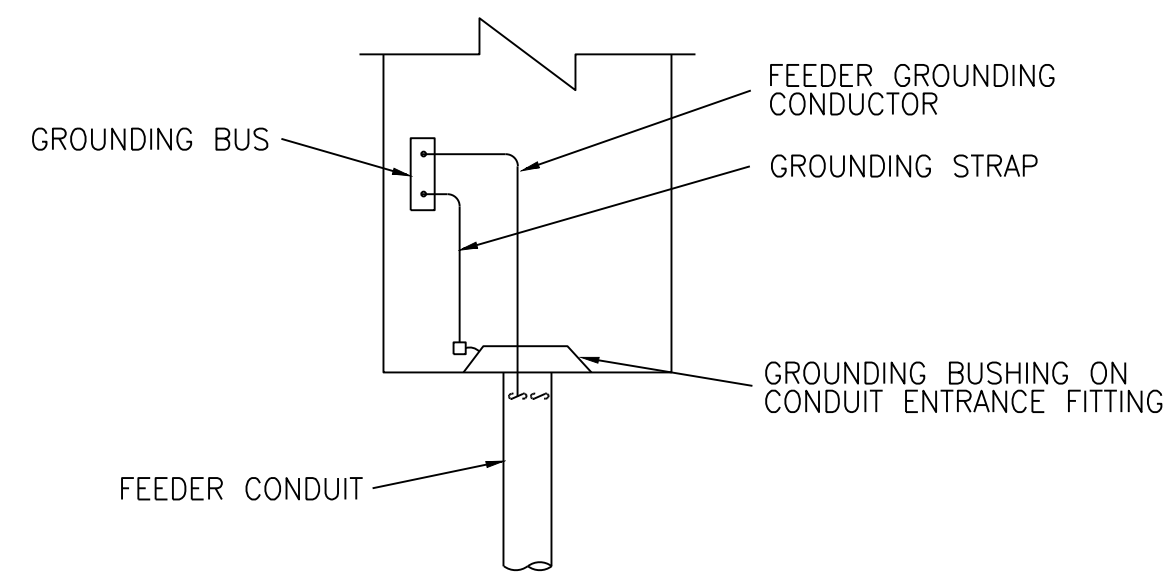


2 FIRST FLOOR PLAN
 LIGHTING
 3/16" = 1'-0"
 NORTH

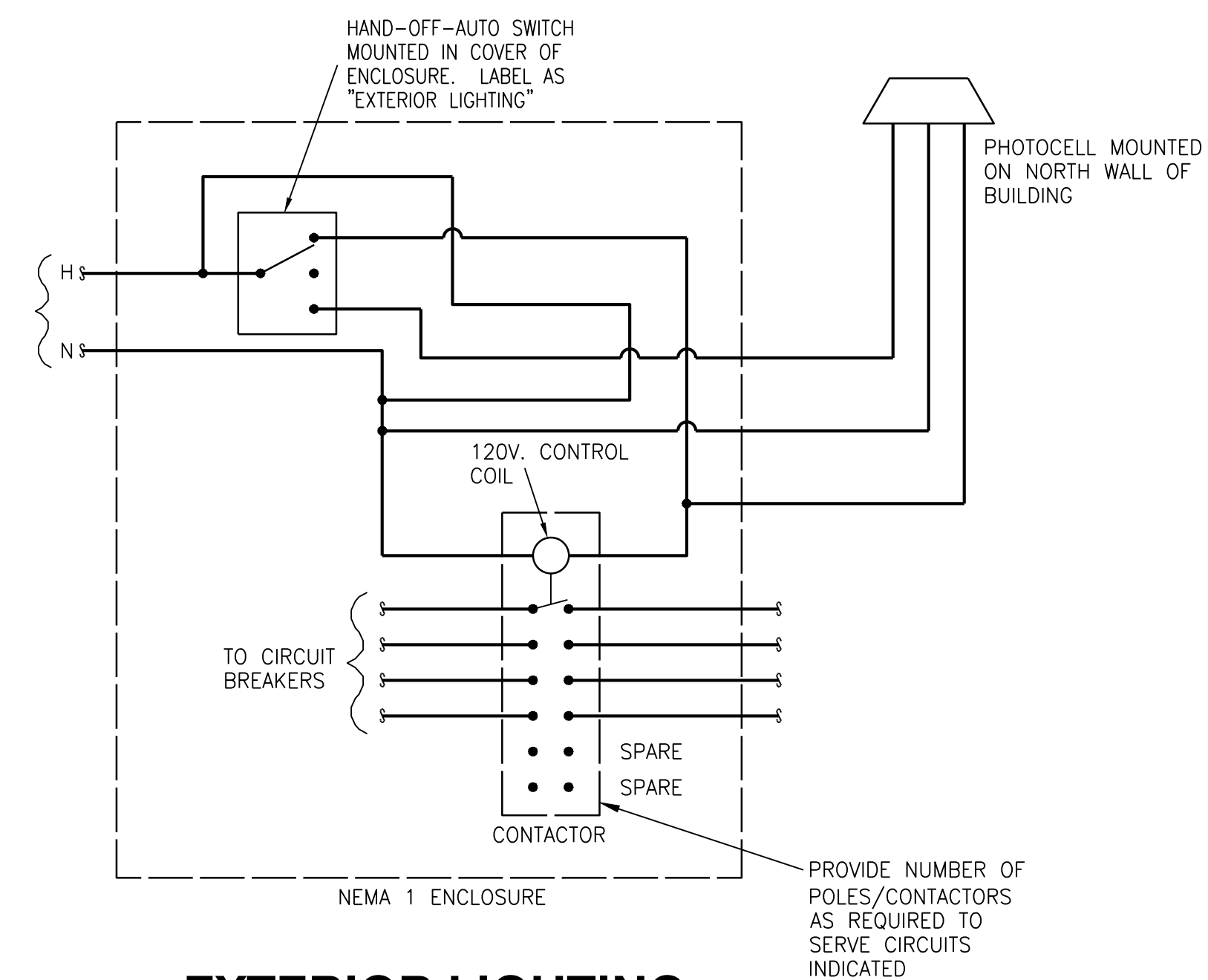


1 BASEMENT PLAN
 LIGHTING
 3/16" = 1'-0"
 NORTH

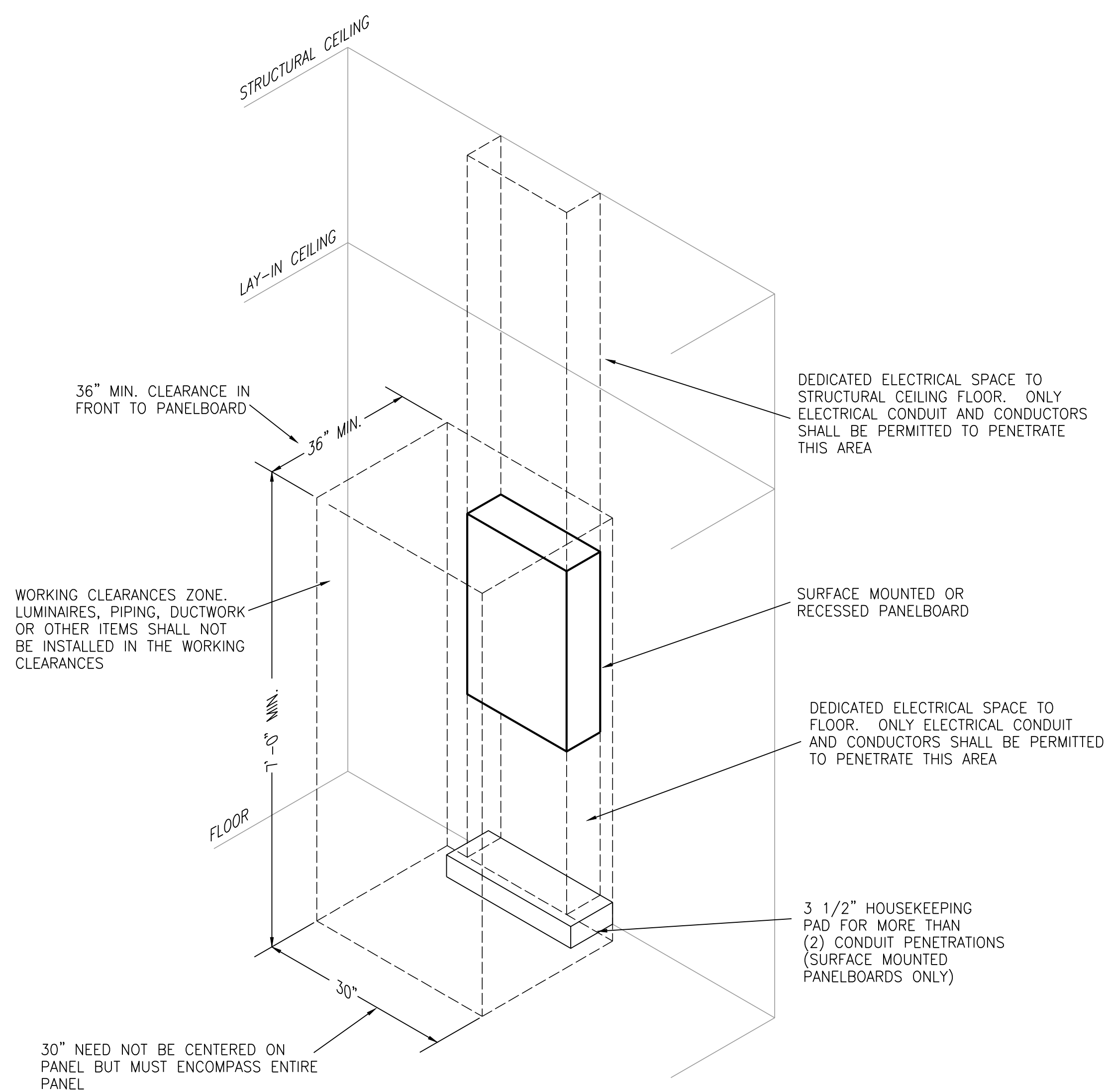
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1 PANEL GROUNDING DETAIL
NO SCALE

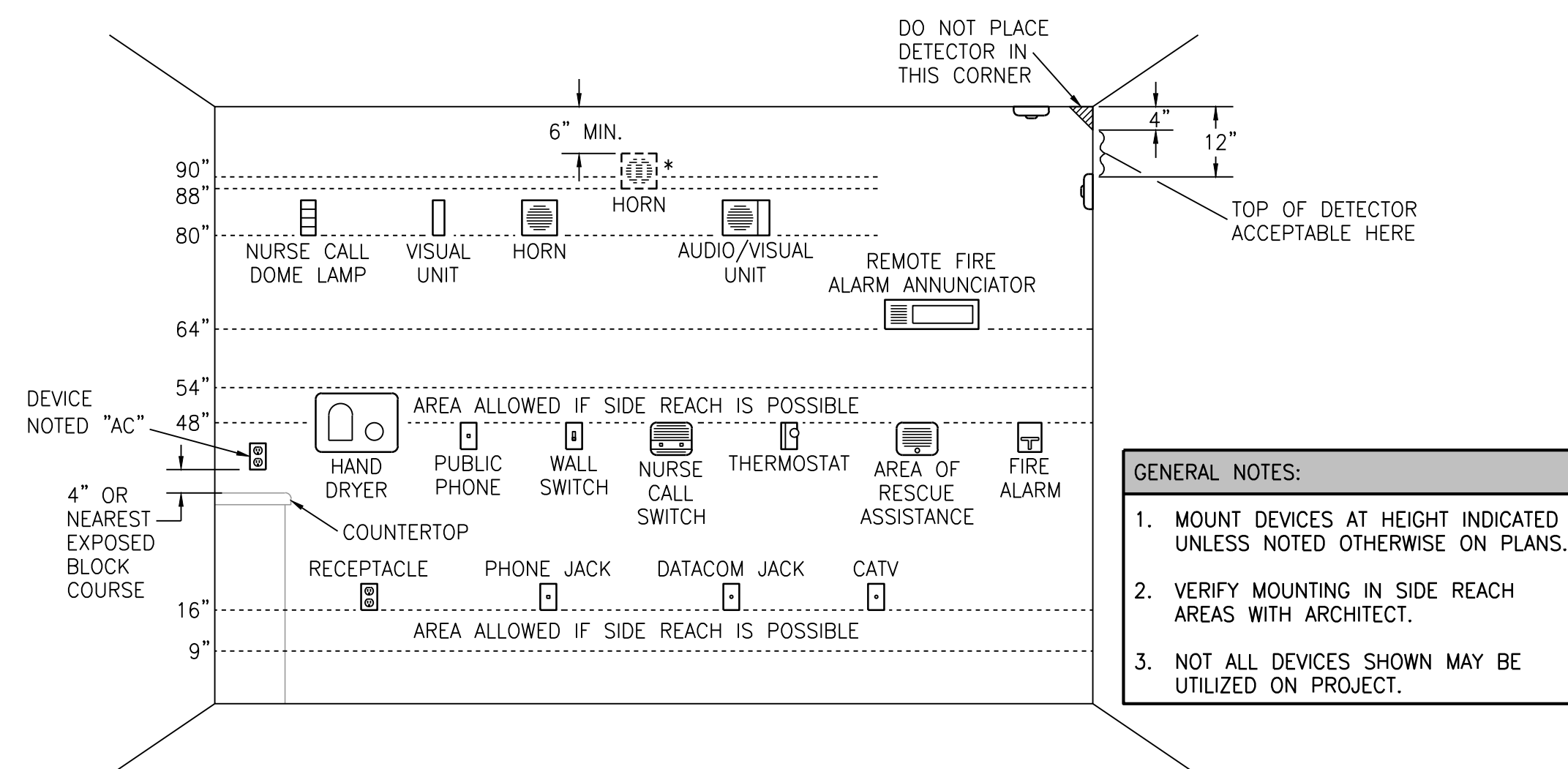


2 EXTERIOR LIGHTING CONTROL PANEL SCHEMATIC
NO SCALE



NOTE:
COORDINATE ALL WORK WITH OTHER TRADES. MAINTAIN ALL OTHER NEC CLEARANCES AND REQUIREMENTS.

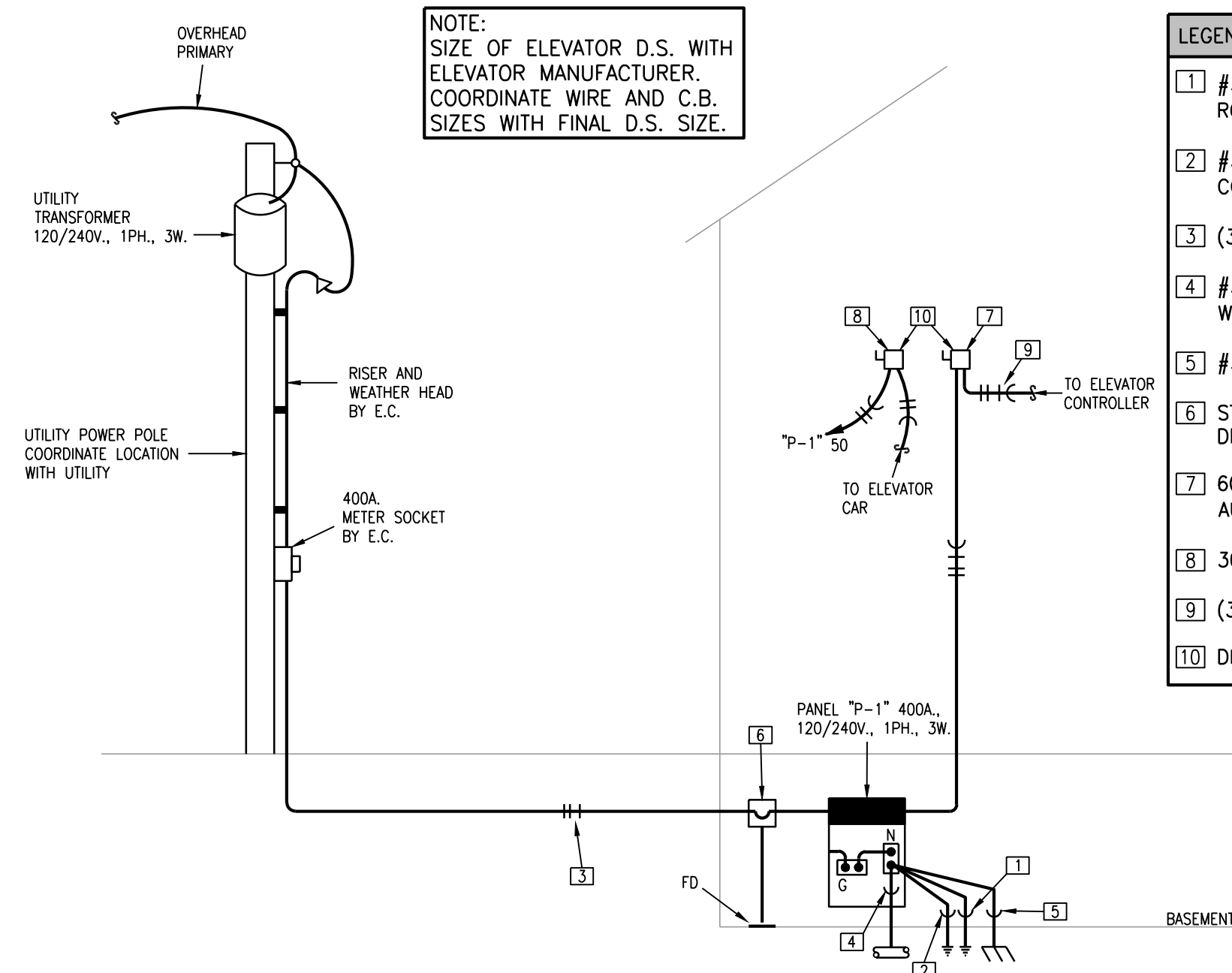
3 TYPICAL PANELBOARD INSTALLATION DETAIL
NO SCALE



GENERAL NOTES:
1. MOUNT DEVICES AT HEIGHT INDICATED UNLESS NOTED OTHERWISE ON PLANS.
2. VERIFY MOUNTING IN SIDE REACH AREAS WITH ARCHITECT.
3. NOT ALL DEVICES SHOWN MAY BE UTILIZED ON PROJECT.

DEVICE MOUNTING NOTES:
1. **VISUAL UNIT**
DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER (ADA 1993).
2. **AUDIO UNIT**
DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER (ADA 1993).
* TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.
3. **AUDIO/VISUAL UNIT**
DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER (ADA 1993).
4. **PULL STATION**
HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) (ADA 1993).

4 ELECTRICAL DEVICE MOUNTING HEIGHTS
NO SCALE



NOTE:
SIZE OF ELEVATOR D.S. WITH
ELEVATOR MANUFACTURER.
COORDINATE WIRE AND C.B.
SIZES WITH FINAL D.S. SIZE.

- LEGEND:
- 1] #3/0 COPPER TO MIN. (3) 3/4"x10'0" LONG GROUND RODS SPACED MIN. 6'-0" O.C.
 - 2] #3/0 COPPER TO MIN. 20'-0" LONG #3/0 BARE COPPER ENCASED IN CONCRETE WITH MIN 2" COVER.
 - 3] (3) #600 IN 4"C.
 - 4] #3/0 COPPER GROUND TO EFFECTIVELY GROUNDED WATER LINE 5'-0" FROM ENTRANCE TO BUILDING.
 - 5] #3/0 COPPER GROUND IN 1"C. TO BUILDING STEEL.
 - 6] STAINLESS STEEL PULL BOX WITH BASE SLOPPED TO 1" DRAIN. TERMINATE DRAIN LINE IN FLOOR DRAIN.
 - 7] 60A., 2P., HD D.S. FUSED AT 40A. RK-1 WITH AUXILIARY CONTACT. (VERIFY)
 - 8] 30A., 2P., HD D.S. FUSED AT 15A. RK-5. (VERIFY)
 - 9] (3) #4 AND (1) #8 GRD. IN 1 1/4"C. (VERIFY)
 - 10] DISCONNECT SWITCH LOCATED IN MACHINE ROOM

1 ELECTRICAL DISTRIBUTION RISER DIAGRAM
NO SCALE

ELECTRICAL LOAD SUMMARY		
LIGHTING	4.0	KW
RECEPTACLES	20.0	KW
MECHANICAL EQUIPMENT	24.2	KW
ELEVATOR (5 HP ESTIMATED)	6.72	KW
MISC. EQUIPMENT	5	KW
ESTIMATED CONNECTED LOAD: 59.9 KW		
ESTIMATED PEAK DIVERSIFIED LOAD: 44.9 KW		
ESTIMATED PEAK FACTOR: 0.95		
ESTIMATED PEAK KVA: 47.3 KVA		
SYSTEM VOLTAGE: 120/240V., 1PH., 3W.		
ESTIMATED PEAK AMPS @ 240V.: 197.1 AMPS		
BUILDING AREA: 5,000 SF		

AUTOMATED LIGHTING CONTROL SCHEDULE				
MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	REMARKS
S _M	WATTSTOPPER	DSW-301	DUAL TECHNOLOGY, 120V WALL SWITCH WITH OCCUPANCY SENSOR.	1
S _D	WATTSTOPPER	DCLV2	0-10V, SINGLE CIRCUIT DIMMING WALL SWITCH.	1
M	WATTSTOPPER	DT-300	LOW VOLTAGE, CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR.	
LCM	WATTSTOPPER	LMRC211	120V/277V, ROOM CONTROLLER WITH (1) ON/OFF RELAY AND 0-10V DIMMING.	2
LCM2	WATTSTOPPER	LMRC212	120V/277V, ROOM CONTROLLER WITH (2) ON/OFF RELAYS AND 0-10V DIMMING.	2
LCM3	WATTSTOPPER	LMRC213	120V/277V, ROOM CONTROLLER WITH (3) ON/OFF RELAYS AND 0-10V DIMMING.	2
PP	WATTSTOPPER	BZ-50	POWER PACK	2

- NOTES:
- SET UP AND CONFIGURE ALL LIGHTING CONTROL DEVICES AND SYSTEMS.
 - PROVIDE (2) WATTSTOPPER MODEL LMCT-100 WIRELESS CONFIGURATION TOOLS.
 - LOW VOLTAGE WIRING FOR ALL DEVICES TO MEET MANUFACTURER REQUIREMENTS.
 - ALL DEVICES TO BE WHITE.

- REMARKS:
- GREY WITH STAINLESS STEEL FACEPLATE.
 - MOUNT AT STRUCTURE ABOVE ACCESSABLE CEILING ON 4X4 BACK BOX WITH EXTENSION AS REQUIRED.

LIGHT FIXTURE SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING		FINISH	SOURCE		REMARKS
				RECESSED SURFACE	WALL		TYPE	CODE	
"A"	WILLIAMS	LT-24-L52/835-AF-DIM-UNV	2X4 TROFFER	X		WHITE	LED	5,202LLM/37.2W	1
"A1"		SAME AS FIXTURE TYPE "A" BUT PROVIDED WITH EMERGENCY BATTERY BACKUP							3
"B"	WILLIAMS	LT-22-L39/835-AF-DIM-UNV	2X2 TROFFER	X		WHITE	LED	3,934LLM/33.1W	1
"C"	WILLIAMS	LT-24-L52/835-AF-DIM-UNV	2X4 TROFFER		X	WHITE	LED	5,202LLM/37.2W	1, 7
"C1"		SAME AS FIXTURE TYPE "C" BUT PROVIDED WITH EMERGENCY BATTERY BACKUP							3
"D"	WILLIAMS	6DR-L15/835-DIM1-UNV-OW-OF-CS-MWT	6" ROUND CAN LIGHT	X		WHITE	LED	1,497LLM/13.8W	1
"D1"		SAME AS FIXTURE TYPE "D" BUT PROVIDED WITH EMERGENCY BATTERY BACKUP							3
"E"	DMF	DRD2M-10-9359-FL-0	4" ROUND SURFACE		X	WHITE	LED	1,000LLM/12.8W	1
"F"	WILLIAMS	75L-4-L65/835-DIM-DIM-UNV	LINEAR PENDANT		PENDANT	WHITE	LED	6,547LLM/55.7W	1, 4
"G"	DMF	DRDSS-8-R-15-935-0	8" ROUND SURFACE		X	WHITE	LED	1,500LLM/12.8W	1
"G1"		SAME AS FIXTURE TYPE "G" BUT PROVIDED WITH EMERGENCY BATTERY BACKUP							3
"H"	WILLIAMS	6CR-L30/850-BLK-DIM1-UNV-OW-CS-VM	SCONCE		X	BLACK	LED	2,985LLM/27.8W	1, 2, 4, 5
"H1"		SAME AS FIXTURE TYPE "H" BUT PROVIDED WITH EMERGENCY BATTERY BACKUP							3
"J"	WILLIAMS	6CR-L20/850U-L30/850D-BLK-DIM1-UNV-OW-CS-VM	UP/DN SCONCE		X	BLACK	LED	4,987LLM/47.6W	1, 2, 4, 5
"J1"		SAME AS FIXTURE TYPE "J" BUT PROVIDED WITH EMERGENCY BATTERY BACKUP							3
"K"	WILLIAMS	75-4-L50/835-DRV-UNV	ELEVATOR SHAFT/EQUIP		X	WHITE	LED	5,000LLM/33W	
"SL"	US ARCHITECTURAL	RZRM-FLD-1V-48LED-700MA-50K	POLE LIGHT		POLE	BLACK	LED	12,346LLM/117W	5, 8
"X"	DUAL LITE	EVLVRM6	EXIT SIGN			WHITE	LED	-	3

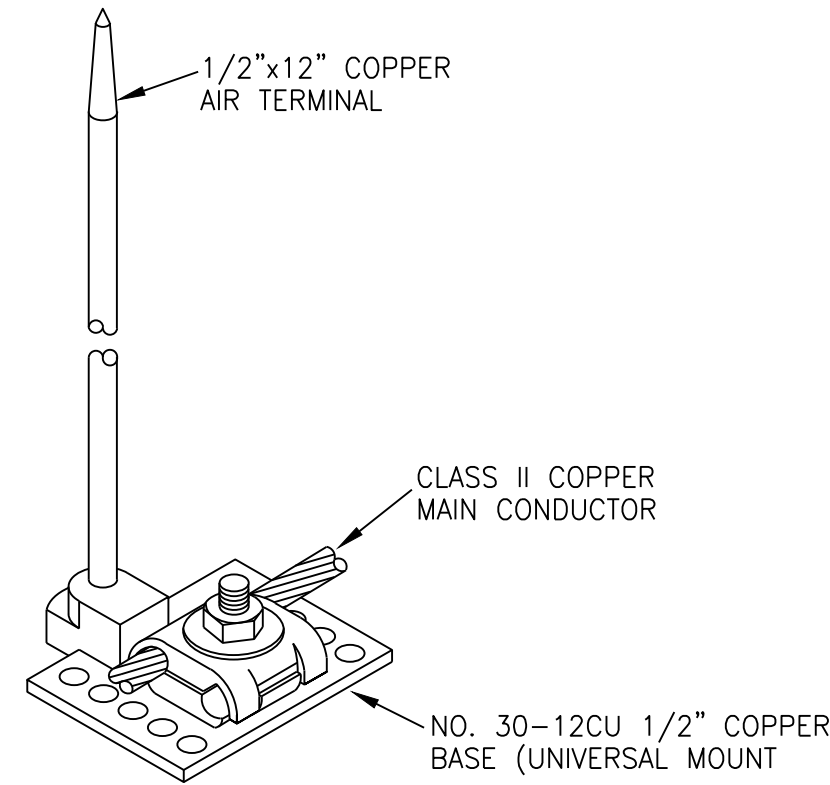
- NOTES:
- ALL FIXTURES 120V UNLESS NOTED OTHERWISE
 - ALL FIXTURES 3500K COLOR TEMPERATURE UNLESS NOTED OTHERWISE
 - VERIFY ALL FIXTURE FINISHES WITH ARCHITECT.

- REMARKS:
- 0-10V DIMMING DRIVER
 - WET LOCATION LISTED.
 - PROVIDE WITH EMERGENCY BATTERY.
 - VERIFY MOUNTING HEIGHT WITH ARCHITECT.
 - 5000K
 - FIELD VERIFY EXACT FIXTURE LENGTH.
 - PROVIDE WITH SURFACE MOUNT KIT.
 - POLE SHALL BE 15 FT SQUARE STRAIGHT ALUMINUM POLE WITH POLE COVERS. PROVIDE WITH POLE DAMPER.

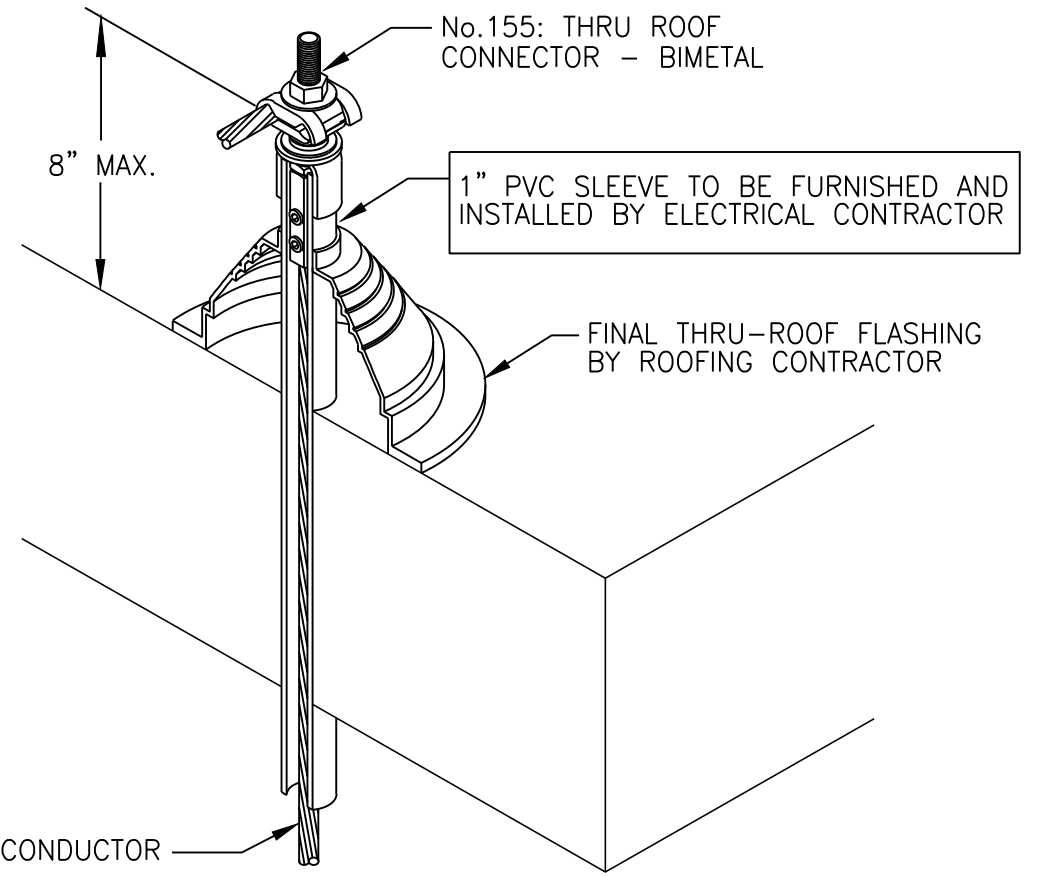
ELECTRICAL PANEL SCHEDULE												
PANEL: P-1 BUS: 400A	LOCATION: B01 BASEMENT						MOUNTING: SURFACE					
	MAINS			MCB			PHASE WIRE			K&IC: 22		
DESCRIPTION	A	B	C	BRKR	WIRE	POLE	WIRE	BRKR	A	B	C	DESCRIPTION
RECEPTACLES	1000			20	12	1	2	10	25			HP-1
RECEPTACLES		1000		20	12	3	4	10	2P			HP-2
RECEPTACLES	800		800	20	12	5	6	10	25			HP-3
RECEPTACLES		1000		20	12	7	8	10	2P			HP-4
DRINKING FOUNTAIN			500	20	12	9	10	10	25			HP-5
RECEPTACLES	400			20	12	11	12	10	2P			F-1
RECEPTACLES		1000		20	12	13	14	12	20	1116		F-2
COPPER			500	20	12	15	16	12	20		1116	F-3
RECEPTACLES	1400			20	12	17	18	12	20			WM-1
RECEPTACLES		800		20	12	19	20	10	20	1500		EF-1
RECEPTACLES			800	20	12	21	22	10	2P		1500	RI-1
COPPER	500		600	20	12	23	24	10	20		336	RF-1
REFRIGERATOR		500		20	12	25	26	10	30	2400		RF-2
RECEPTACLES			1400	20	12	27	28	10	2P		2400	ACCESS CONTROLS
RECEPTACLES	800			20	12	29	30	12	20		200	SUMP PUMP
RECEPTACLES		1000		20	12	31	32	12	20	1000		SPARE
RECEPTACLES				20	12	33	34	12		1000		SPARE
RECEPTACLES			800	20	12	35	36	-	20		1000	SPARE
LIGHTING	500			20	12	37	38	12	20	300		EXTERIOR LIGHTING
LIGHTING		855		20	12	39	40	12	20	150		EXTERIOR LIGHTING
LIGHTING			860	20	12	41	42	12	25		2400	ELH-1
EXTERIOR LIGHTING	230			20	12	43	44	12	2P	2400		ELH-2
IT RACK		1000		20	12	45	46	4	80		3360	ELEVATOR CONTROLLER
SPARE			1000	20	-	47	48	4	2P		3360	ELEVATOR CAR
SPARE	1000			20	-	49	50	12	15	1000		ELEVATOR SUMP PUMP
SPARE		1000		20	-	51	52	12	20	1000		ELEVATOR SHAFT RECEPTACLES
SPARE			1000	20	-	53	54	12	20	1000		SPARE
SPARE	1000			20	-	55	56	-	20	1000		SPARE
SPARE		1000		20	-	57	58	-	20	1000		SPARE
SPARE			1000	20	-	59	60	-	20	1000		SPARE
SPARE	1000			20	-	61	62	-	20	1000		SPARE
SPARE		1000		20	-	63	64	-	20	1000		SPARE
SPARE			1000	20	-	65	66	-	20	1000		SPARE
SPARE	1000			20	-	67	68	-	20	1000		SPARE
SPACE				20	-	69	70	-	-			SPACE
SPACE				20	-	71	72	-	-			SPACE
SPACE				20	-	73	74	-	-			SPACE
SPACE				20	-	75	76	-	-			SPACE
SPACE				20	-	77	78	-	-			SPACE
SPACE				20	-	79	80	-	-			SPACE
SPACE				20	-	81	82	-	-			SPACE
SPACE				20	-	83	84	-	-			SPACE
SUB TOTAL	9630	10155	9460							16316	16126	14772
LIGHTING LOAD	500		855							300	150	0
EQUIPMENT LOAD	0		0							12016	9616	7412
RECEPTACLES AND SPARES	9130		9300							1000	4360	4360
DIVERSIFIED	5065		5505							12816	11946	9592
CONNECTED LOAD-WATTS	25946		26281									24232
CONNECTED LOAD-AMPS	216		219									202
DIVERSIFIED LOAD-WATTS	17881		17451									14752
DIVERSIFIED LOAD-AMPS	149		145									123
												261
												600
												400

*SHUNT TRIP CIRCUIT BREAKER

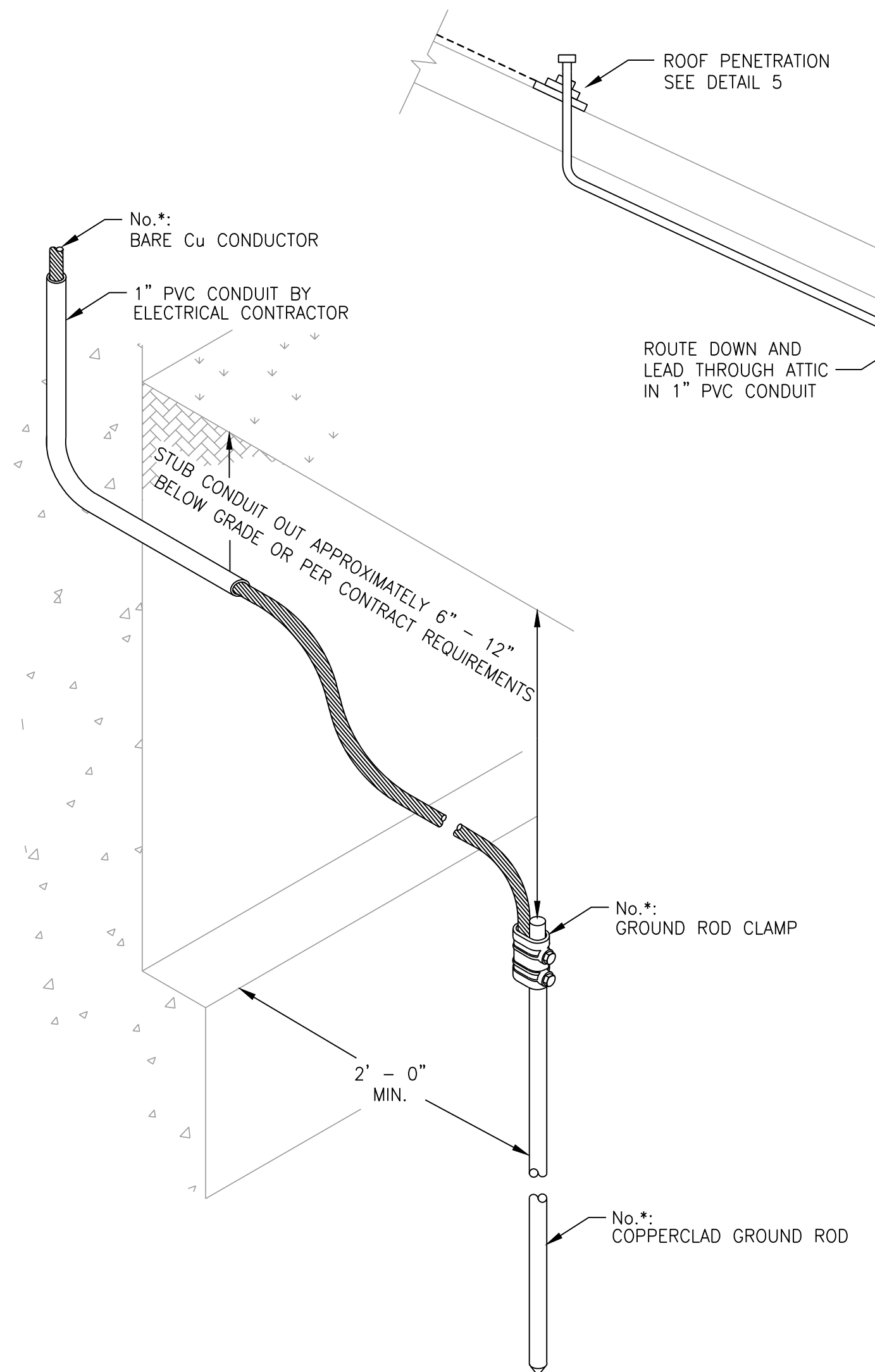
LIGHTNING PROTECTION SPECIFICATIONS:	
LIGHTNING PROTECTION 131000	2.2 LIGHTNING PROTECTION SYSTEM COMPONENTS
SECTION 131000 - LIGHTNING PROTECTION	A. Comply with UL 96.
PART 1 - GENERAL	B. Roof-Mounting Air Terminals: NFPA Class I, copper, solid, unless otherwise indicated.
1.1 RELATED DOCUMENTS	C. Slack-Mounting Air Terminals: Solid copper.
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.	D. Ground Rods, Ground Loop Conductors, and Concrete-Encased Electrodes: Comply with Division 16 Section "Grounding and Bonding" and standards referenced in this Section.
1.2 SUMMARY	PART 3 - EXECUTION
A. This Section includes lightning protection for buildings and building elements.	3.1 INSTALLATION
B. This portion of work shall include, based upon best available technology, all necessary concealed, buried, or preliminary work necessary to eventually provide a complete UL Master Label lightning protection system, upon completion of the restoration of the entire building over the next 8 to 10 years. The installation of the system components now shall be installed complete for the area of work and as though a complete system is being installed. It shall be fully integrated to existing systems already installed as parts of previous phases.	A. Install lightning protection components and systems according to UL 96A. Install conductors with direct paths from air terminals to ground connections. Avoid sharp bends and narrow loops.
1.3 SUBMITTALS	B. Connect and bond to down conductors and/or counterpoise conductors that were installed in previous packages.
A. Submit drawings as applicable to this portion of the work. Items indicated but not being installed at this time, need not be submitted.	C. Conceal the following conductors:
B. Product Data: For air terminals and mounting accessories.	1. System conductors.
C. Shop Drawings: Detail lightning protection system, including air-terminal locations, conductor routing and connections, and bonding and grounding provisions. Include indications for use of raceway and data on how concealment requirements will be met.	2. Down conductors.
D. Qualification data for firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include data on listing or certification by nationally recognized testing laboratory (NRTL) or trade association.	3. Interior conductors.
E. Field inspection reports indicating compliance with specified requirements.	4. Conductors, within normal view from exterior locations of grade within 200 feet of building.
1.4 QUALITY ASSURANCE	5. Notify Architect at least 48 hours in advance of inspection before concealing lightning protection components.
A. Installer Qualifications: Engage an experienced installer who is NRTL listed or who is certified by LPI as a Master Installer/Designer.	D. Cable Connections: Use approved exothermic-welded connections for all conductor splices and connections between conductors and other components.
B. Listing and Labeling: As defined in NFPA 780, Article 2-2, "Definitions."	E. Bond extremities of vertical metal bodies exceeding 60 feet in length to lightning protection components.
C. Provide UL Master Label.	F. A counterpoise installation based on requirements in Division 16 Section "Grounding and Bonding" may be used as a ground loop required by NFPA 780, provided counterpoise conductor meets or exceeds minimum requirements in NFPA 780.
1.5 COORDINATION	1. Bond ground terminals to counterpoise conductor.
A. Coordinate installation of lightning protection with installation of other building systems and components, including electrical wiring, supporting structures and building materials, metal bodies requiring bonding to lightning protection components, and building finishes.	2. Bond grounded metal bodies on building within 12 feet of ground to counterpoise conductor.
B. Coordinate installation of air terminals attached to single-membrane roof systems with roofing manufacturer and installer.	3. Bond grounded metal bodies on building within 12 feet of roof to interconnecting loop at eave level or above.
PART 2 - PRODUCTS	6. Bond lightning protection components with intermediate-level interconnection loop conductors to grounded metal bodies of building at 60-foot intervals.
2.1 MANUFACTURERS	3.2 CORROSION PROTECTION
A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	A. Do not combine materials that can form an electrolytic couple that will accelerate corrosion in the presence of moisture unless moisture is permanently excluded from junction of such materials.
1. A-C Lightning Security, Inc.	B. Use conductors with protective coatings where conditions would cause deterioration or corrosion of conductors.
2. Automatic Lightning Protection.	3.3 FIELD QUALITY CONTROL
3. Harger Lightning Protection, Inc.	A. UL Inspection: Apply for inspection by UL as required to obtain a UL Master Label for system.
4. Heary Bros. Lightning Protection Co., Inc.	
5. Independent Protection Company, Inc.	
6. Robbins Lightning Incorporated.	
7. Thompson Lightning Protection, Inc.	
	END OF SECTION 131000



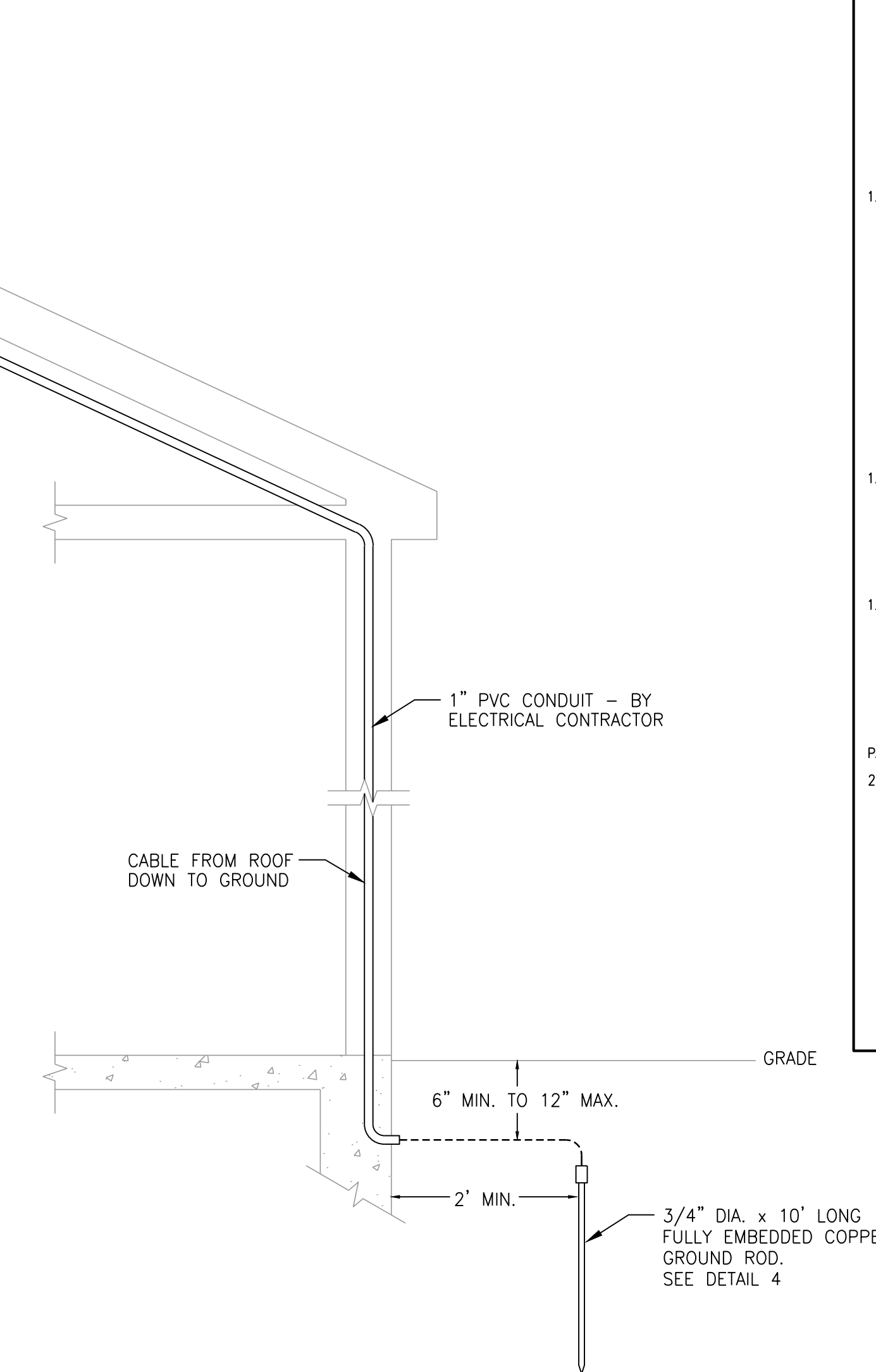
1 AIR TERMINAL
NO SCALE



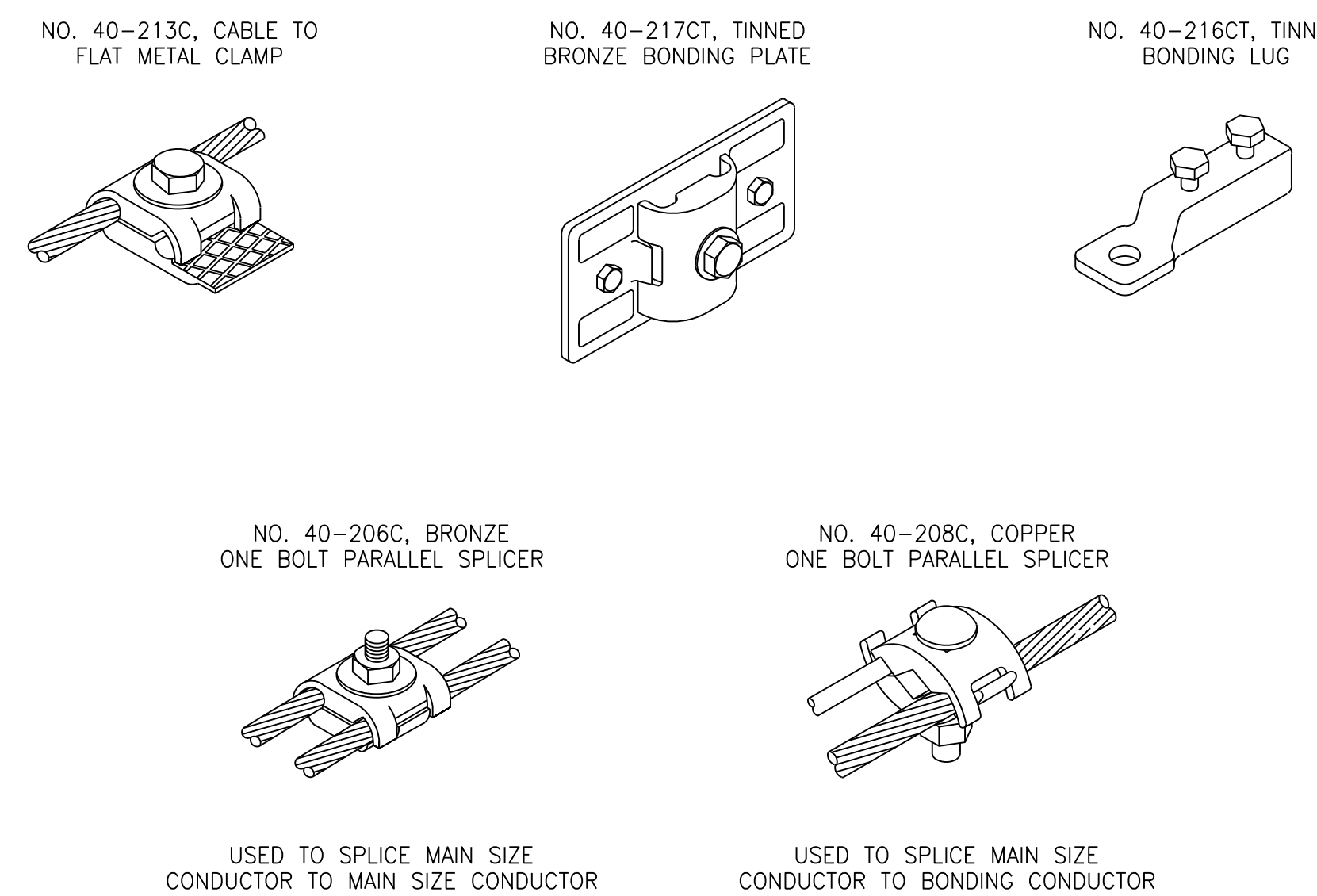
2 TYPICAL THRU-ROOF DETAIL
NO SCALE



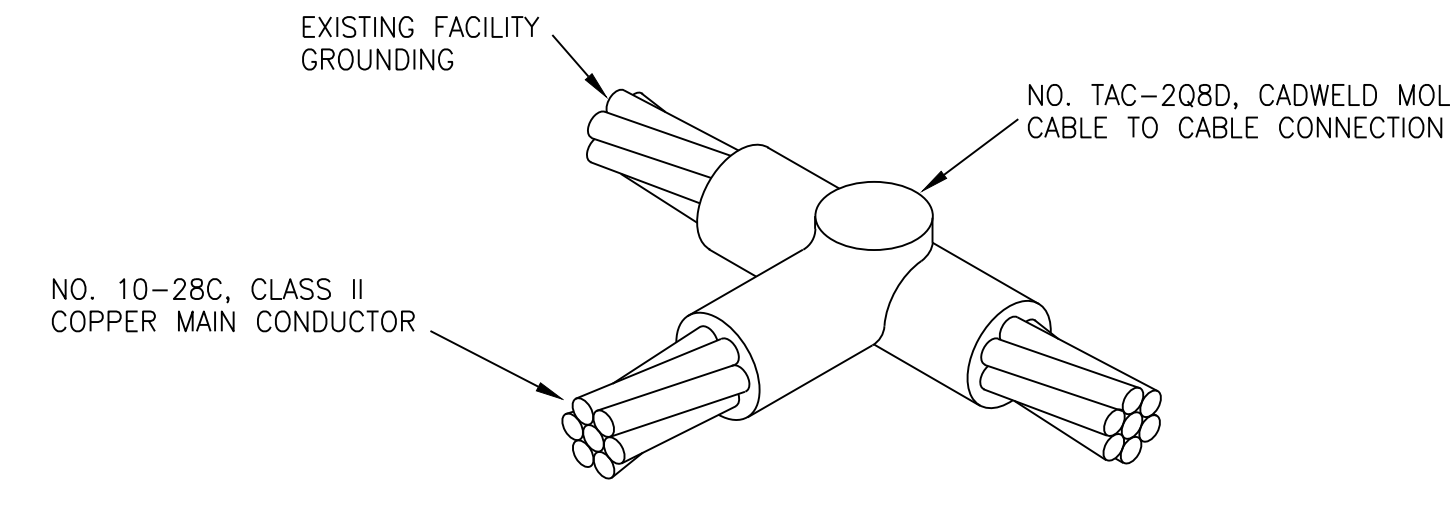
3 TYPICAL GROUNDING DETAIL
NO SCALE



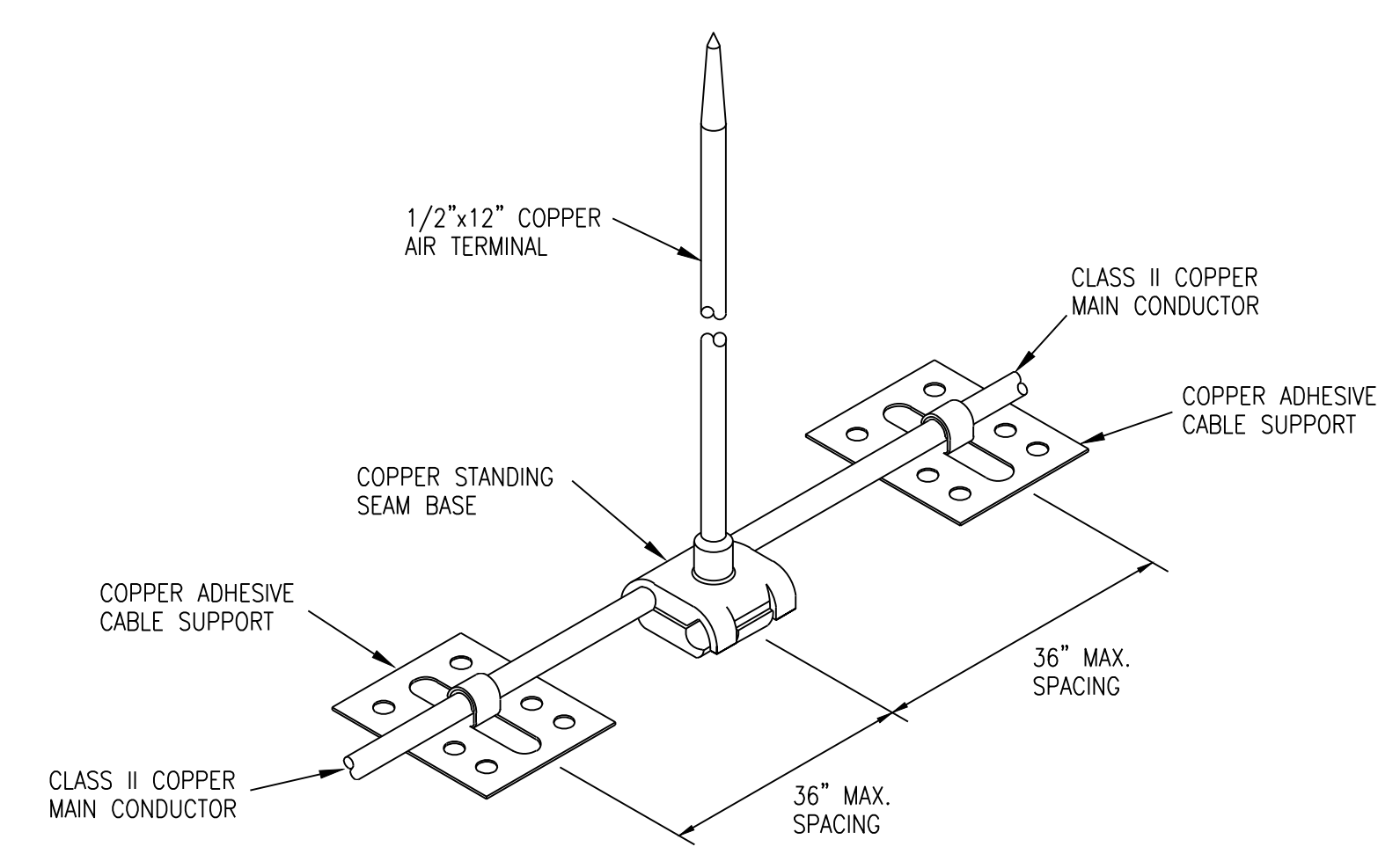
4 TYPICAL DOWNLEAD ROUTING
NO SCALE



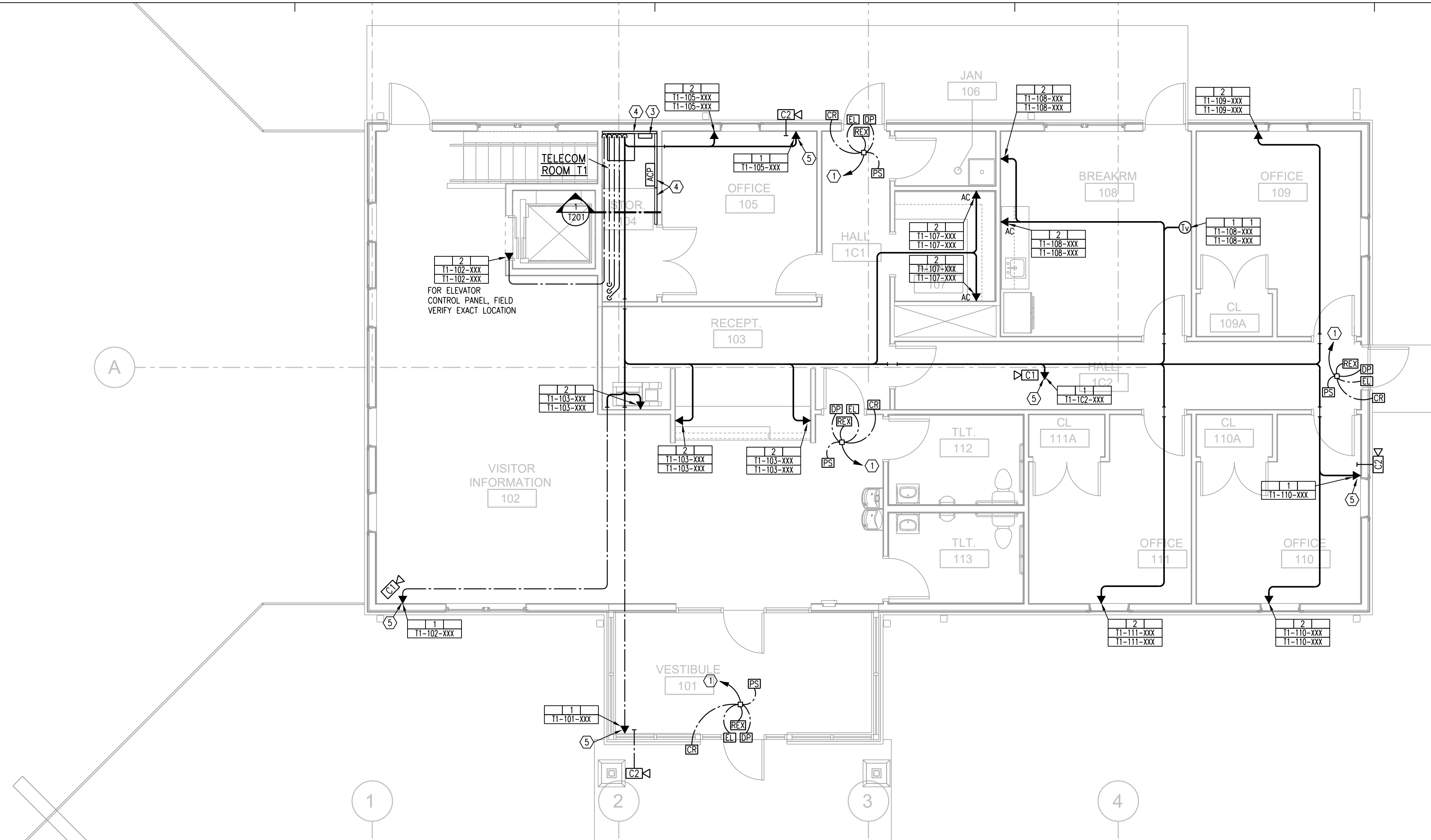
5 MISCELLANEOUS LIGHTNING PROTECTION DETAILS
NO SCALE



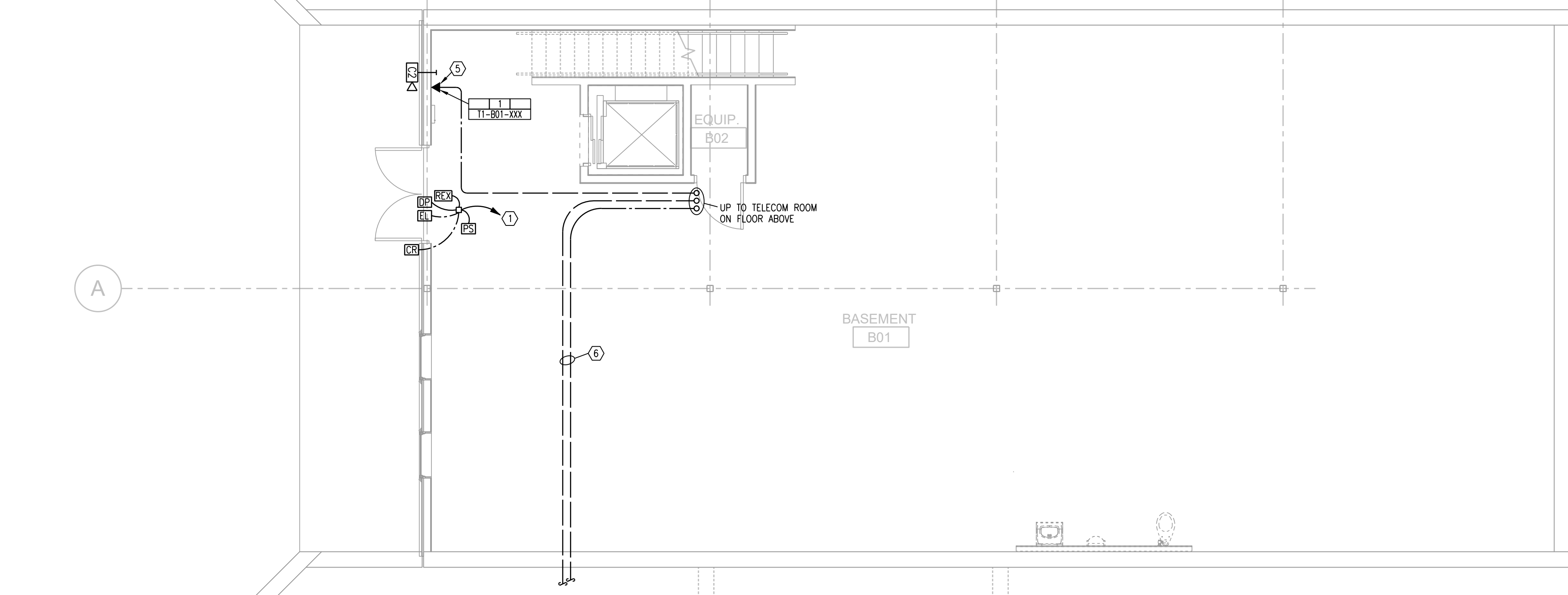
6 CAD WELD - TA
NO SCALE



7 TYPICAL LAYOUT - AIR TERMINAL
NO SCALE



2 FIRST FLOOR PLAN
 3/16"=1'-0"
 TELECOM
 NORTH



1 BASEMENT PLAN
 3/16"=1'-0"
 TELECOM
 NORTH

- LEGEND:**
- ① ROUTE COMBO CABLE FROM DOOR DEVICES TO ACCESS CONTROL PANEL AND TERMINATE ON EACH END. CONTRACTOR SHALL COORDINATE CONDUIT ROUGH-IN REQUIREMENTS AND LOCATIONS WITH THE OWNER'S REP. AND DOOR HARDWARE SPECIFICATION.
 - ② 1 1/4" C. TO ABOVE ACCESSIBLE CEILING.
 - ③ TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGB114416TMGBKT OR EQUAL BY E/C. PROVIDE (1) #6 GROUND WIRE TO RACK AND (1) #1/0 GROUND WIRE TO MAIN ELECTRICAL SERVICE GROUND. PROVIDE REQUIRED COMPRESSION LUGS.
 - ④ E/C TO PROVIDE 3/4"x4"x8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY WITH A MIN. OF (5) EQUALLY SPACED FASTENERS ALONG EACH VERTICAL EDGE AND (1) COLUMN OF (5) EQUALLY SPACED FASTENERS CENTERED ON EACH SHEET OF PLYWOOD. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT. COLOR TO BE SELECTED BY ARCHITECT (TYP.).
 - ⑤ LOCATED ABOVE ACCESSIBLE CEILING FOR VIDEO SURVEILLANCE CAMERA. PROVIDE CAT6 PATCH CORD FROM DATA OUTLET TO VIDEO SURVEILLANCE CAMERA.
 - ⑥ (2) 2" C. 36" MINIMUM BELOW GRADE WITH PULL-STRINGS FOR VOICE/DATA SERVICE PROVIDER ENTRY. REFER TO SITE PLAN FOR CONTINUATION AND VERIFY/COORDINATE REQUIREMENTS WITH VOICE/DATA SERVICE PROVIDER.

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