



SCHWERDT DESIGN GROUP, INC

Architecture

Interiors

Planning

Topeka, Kansas
Oklahoma City, Oklahoma

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO. 6

DATE: March 13, 2024

PROJECT NO: 230117

RE: Streets of West Pryor – Lot 5 Core & Shell

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If changes in Contract Sum or Contract Time are required, Contractor shall submit Change Order Request in a timely manner.

ASI No. 6 is part of the contract Bid and Construction Documents and shall govern in the performance of the Work.

DESCRIPTION:

Clarification Items:

G-1 Attached drawings associated with ASI-6 are marked with a Delta 7, Rev #7, or similar.

MEP Items:

MEP-1 Sheet E-101 – Electrical Riser Diagram updated to two-hundred amp system.

MEP-2 Sheet E-201 – Double-Section Panelboard Schedule updated for two-hundred amp system.

END OF ASI-6

ASI NO. 6



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Topeka, Kansas
Oklahoma City, Oklahoma

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO. 5

DATE: February 19, 2024 **PROJECT NO:** 230117

RE: Streets of West Pryor – Lot 5 Core & Shell

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If changes in Contract Sum or Contract Time are required, Contractor shall submit Change Order Request in a timely manner.

ASI No. 5 is part of the contract Bid and Construction Documents and shall govern in the performance of the Work.

DESCRIPTION:

Clarification Items:

G-1 Attached drawings associated with ASI-5 are marked with a Delta 6, Rev #6, or similar.

Architectural Items:

- A-1 Sheet G-001 – Code summary updated with usable square foot occupant load calculations and exit requirements for tenant suites A, B & C.
 - A-1.1 Sheet G-001 – Code plan updated with occupant load calculations and egress width for tenant suites A, B & C.
- A-2 Sheet A-101 – Two hour rated demising wall added to full East to West length of the building spaced 21 feet from face of gypsum board to the other second two hour rated demising wall. Creating and dividing the Core & Shell building into now three separate tenant suites.
 - A-1.A Updating tenant suite designations as Suite A, B & C respectively.
 - A-1.B Updating tenant suite square footage.
- A-3 Sheet A-102 – Roof Top Unit added to service enlarged Tenant Suite B space.

MEP Items:

- MEP-1 Sheet M-101 – Restroom removed; RTU added to service enlarged Tenant Suite B space.
 - MEP-1.A Water heater and Plumbing Fixture schedules removed.

ASI NO. 5

MEP-2 Sheet M-201 – Restroom removed; RTU added to service enlarged Tenant Suite B space.

MEP-2.A Roof Top Unit Schedule updated with added RTU.

MEP-2.B Exhaust Fan schedule removed.

MEP-3 Sheet E-101 – Restroom removed; RTU added to service enlarged Tenant Suite B space.

MEP-3.A Panelboard schedule updated.

MEP-3.B Electrical riser diagram updated with 400A panels.

MEP-3.C Electrical Floor Plan – Power updated for tenant suites A & B.

MEP-4 Sheet E-201 – Floor Plan – Lighting updated to three tenant suites A,B & C respectively and Double-Section Panelboard Schedule added to sheet.

END OF ASI-5

ASI NO. 5



SCHWERDT DESIGN GROUP, INC

Architecture

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Planning

Topeka, Kansas
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ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO. 4

DATE: November 07, 2023 **PROJECT NO:** 230117

RE: Streets of West Pryor – Lot 5 Core & Shell

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If changes in Contract Sum or Contract Time are required, Contractor shall submit Change Order Request in a timely manner.

ASI No. 4 is part of the contract Bid and Construction Documents and shall govern in the performance of the Work.

DESCRIPTION:

Clarification Items:

G-1 Attached drawings associated with ASI-4 are marked with a Delta 5, Rev #5, or similar.

Architectural Items:

- A-1 Sheet G-001 – Drawing A3-Code Plan changed from 3 tenant building to 2 tenant building.
 - A-1.A – Drawing A3-Code Plan updated egress load tags.
- A-2 Sheet A-101 – Floor changed from 3 tenant building to 2 tenant building. Including removal of fire demising wall, restroom and mechanical room.
 - A-2.A Room tags updated to illustrate proper Suite nomenclature and square footage.
- A-3 Sheet A-201 – Drawing C1-East Elevation update illustrating change to Stone wainscot and EIFS 1 at previous brake metal pilaster.
 - A-3.A Drawing C1-East Elevation changed from 3 tenant building to 2 tenant building and tenant signage updated on elevation.
- A-4 Sheet A-401 – Removed from scope.

END OF ASI-4

ASI NO. 4



SCHWERDT DESIGN GROUP, INC

Architecture

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Planning

Topeka, Kansas
Oklahoma City, Oklahoma

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO. 3

DATE: June 20, 2023

PROJECT NO: 230117

RE: Streets of West Pryor – Lot 5 Core & Shell

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If changes in Contract Sum or Contract Time are required, Contractor shall submit Change Order Request in a timely manner.

ASI No. 3 is part of the contract Bid and Construction Documents and shall govern in the performance of the Work.

DESCRIPTION:

Clarification Items:

G-1 Attached drawings associated with ASI-3 are marked with a Delta 4, Rev #4, or similar.

Architectural Items:

A-1 Sheet A-101 – Updated location of future pass-through openings on Suite C's South demising wall.

Structural Items:

S-1 Sheet S-102 - Updated location of future pass-through openings on Suite C's South demising wall.

END OF ASI-3

ASI NO. 3



SCHWERDT DESIGN GROUP, INC

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Topeka, Kansas
Oklahoma City, Oklahoma

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO. 2

DATE: July 07, 2023

PROJECT NO: 230117

RE: Streets of West Pryor – Lot 5 Core & Shell

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If changes in Contract Sum or Contract Time are required, Contractor shall submit Change Order Request in a timely manner.

ASI No. 2 is part of the contract Bid and Construction Documents and shall govern in the performance of the Work.

DESCRIPTION:

Clarification Items:

G-1 Attached drawings associated with ASI-2 are marked with a Delta 3, Rev #3, or similar.

Architectural Items:

- A-1 Sheet A-101 – Future pass-through openings added on East and West ends of Suite C's South Demising wall.
 - A-1.A - Key plan note #2 for Future pass-through added to Keyed Plan Notes legend.
- A-2 Sheet A-102 – RTUs rotated 90 degrees for structural support purposes.
- A-3 Sheet A-201 – Door C101 update to be 7' and Tempered Glass.
 - A-3.A - Reference to MEP exterior utilities indicated on West Elevation Drawing A1.
- A-4 Sheet A-601 – Door schedule updated to represent C101 door as 7' and Tempered Glass.

Structural Items:

- S-1 Sheet S-001 – Updates to general notes Risk Category and Wind Load information.
- S-2 Sheet S-101 – Foundation updates to columns B.1-3 & B.9-3 and dimensional spacing on East.
 - S-2.A – Addition of West pilaster foundation.
- S-3 Sheet S-102 – Future pass-through openings added to shearwall
 - S-3.A - Wood shearwall schedule updated.
 - S-3.B – Addition of West wall pilaster.
- S-4 Sheet S-103 – RTUs rotated 90 degrees for structural support.
 - S-4.A – Future pass through openings located in shearwall.
 - S-4.B – Addition of West wall pilaster.
- S-5 Sheet S-201 – Updated shearwall pass-through openings and west wall pilaster added to isometric.
- S-6 Sheet S-301 – Bolt type and dimensional location update to Baseplate Details drawings BP-2.

ASI NO. 2

MEP Items:

- MEP-1 Sheet ME-201 – Updates to Light Fixture Schedule to show “C” fixtures on exterior.
MEP-1.A – Movement of Light Poles.
- MEP-2 Sheet ME-202 – Updated placement of exterior utilities
- MEP-3 Sheet M-101 – Swapping the respective placement of RTU 3 and RTU 4 for each other.
MEP-3.A – Rotation of RTU units
- MEP-4 Sheet M-201 – Rotation of RTU units
- MEP-5 Sheet E-101 – Swapping the respective placement of RTU 3 and RTU 4 for each other.
MEP-5.A – Updated information on respective Panelboard Schedule for RTU 3 and RTU 4.
MEP-5.B – Rotation of RTU units
MEP-5.C – Exterior Utilities shifted south past West wall Pilaster
- MEP-6 Sheet E-201 – Mounted exterior lighting updated to “C” fixtures’ on floor plan.

END OF ASI-2

ASI NO. 2



SCHWERDT DESIGN GROUP, INC

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Topeka, Kansas
Oklahoma City, Oklahoma

ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO. 1

DATE: June 20, 2023

PROJECT NO: 230117

RE: Streets of West Pryor – Lot 5 Core & Shell

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. If changes in Contract Sum or Contract Time are required, Contractor shall submit Change Order Request in a timely manner.

ASI No. 1 is part of the contract Bid and Construction Documents and shall govern in the performance of the Work.

DESCRIPTION:

Clarification Items:

- G-1 Attached drawings associated with ASI-1 are marked with a Delta 2, Rev #2, or similar.
- G-2 Title blocks of all Architectural drawings have been updated with exact site address.
- G-3 Sheets G-001, A-101, & A-301 Room Labels have changed to Suite A, B, & C.

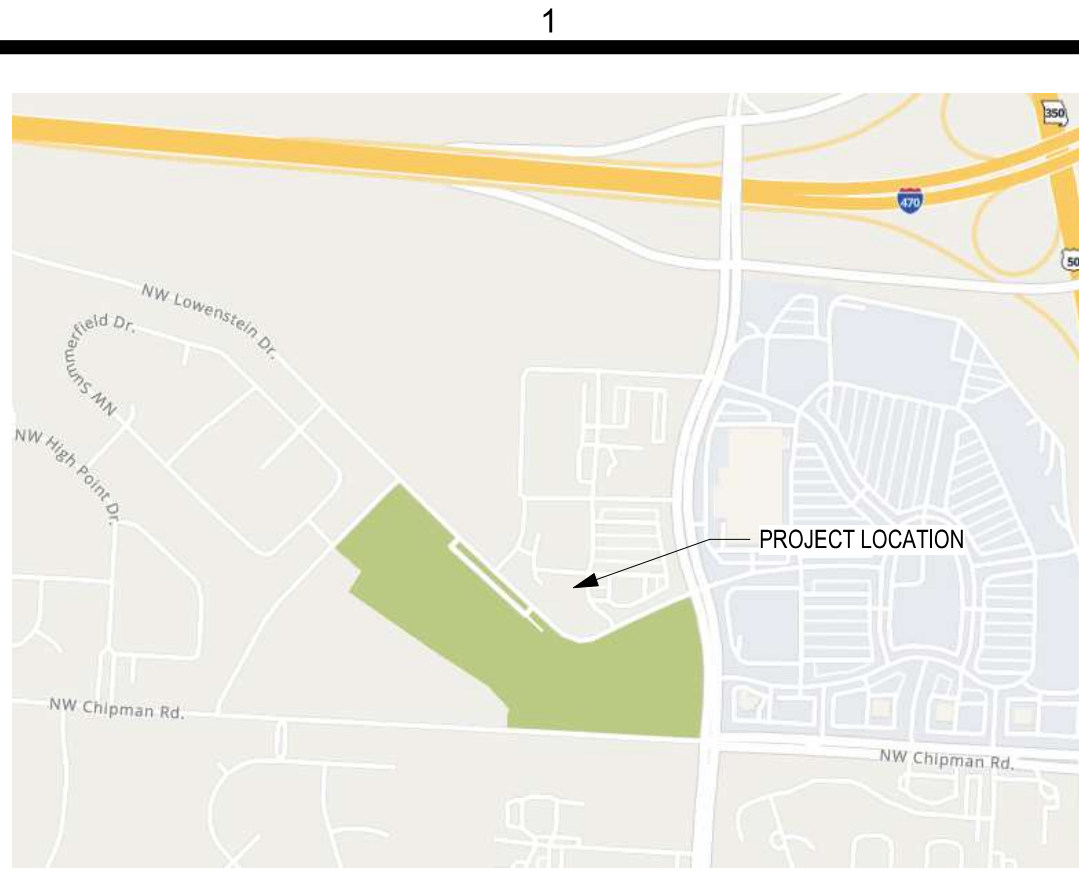
Architectural Items:

- A-1 Sheet A-101 - UL Fire rated wall assembly information has been added to partition type P1.
 - A-1.A Partition types P2 & P3 have been added to partition type legend.
 - A-1.B Partition types P2 & P3 have been tagged in plan.
- A-2 Sheet A-102 – Pilaster added to West wall.
- A-3 Sheet A-301 – Wall construction updated to clarify horizontal lap aluminum siding.

END OF ASI-1

ASI NO. 1

C:\Users\ross\OneDrive - Schwertdt Design Group\Documents\230117 SOWP Lot 5 Core - Shell_ASI-FOUR_rjshzHC2.rvt
DATE: 2/19/2024 6:29:44 PM
DRAWN BY: Author



A1 LOCATION MAP

SCALE: NOT TO SCALE



MATERIAL LEGEND

PLAN OR SECTION			
ACOUSTIC TILE (SECTION)			RIGID INSULATION
BATT INSULATION			SAND, GRAVEL, PLASTER, DRYWALL, CUT STONE, GROUT TILE (LARGE SCALE)
BRICK			WOOD BLOCKING
CARPET			WOOD MEMBER (CONTINUOUS)
CONCRETE			WOOD STUDS, PARALLEL, FINISHED
CONCRETE MASONRY UNITS			ELEVATION
CONCRETE, PLASTER CUT STONE, STUCCO			BRICK
EARTH COMPACTED/DISTURBED			GLASS
METAL			WOOD
METAL STUDS			
PLYWOOD (LARGE SIZE)			

ABBREVIATIONS

A AFF ABOVE FINISH FLOOR ACS PNL ACCESS PANEL ACC ACCESSIBLE ACT ACOUSTICAL CEILING TILE ACOUS PNL ACOUSTICAL PANEL ADMIN ADMINISTRATION APC ACOUSTICAL PANEL AWT ACOUSTICAL WALL TREATMENT ADJ ADJUSTABLE AHU AIR HANDLING UNIT ALT ALTERNATE ALUM ALUMINUM AB ANCHOR BOLT L ANGLE ANOD ANODIZE / ANODIZED APPROX APPROXIMATE ARCH ARCHITECTURAL ASPH ASPHALT	D DISHWASHER DR DOOR DBL DOUBLE DN DOWN DWS DOWNSPOUT DWG DRAWING DF DRINKING FOUNTAIN E EA EACH EW EACH WAY ESMT EASEMENT E ELECTRIC, ELECTRICAL EL ELEVATION ELEV ELEVATOR EQ EQUAL EQUIP EQUIPMENT EXH EXHAUST FAN EXIST EXISTING EXP EXPANSION EXJ EXPANSION JOINT EXT EXTERIOR EIFS EXTERIOR INSULATION & FINISH SYSTEM F FC BRK FACE BRICK FGL FACE OF FINISH FIBR GLASS FIBERGLASS FINISH FINISH FF EL FINISH FLOOR ELEVATION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FIXT FIXTURE FLASH FLASHING FLR FLOOR FOO FLOOR CLEANOUT FD FLOOR DRAIN FLUOR FLUORESCENT FLL FLOW LINE FT FOOT FTG FOOTING FDTN FOUNDATION FR FRAME FA FRESH AIR FURN FURNACE FURG FURRING FS FULL SIZE G GA GAUGE GALV STL GALVANIZED STEEL GC GENERAL CONTRACTOR GL GLASS GB GRAB BAR GYP BD GYPSUM BOARD H HCP HANDICAPPED HDW HARDWARE HDWD HARDWOOD HVAC HEATING, VENTILATION & AIR CONDITIONING HT HEIGHT H HIGH HWY HIGHWAY HM HOLLOW METAL HORIZ HORIZONTAL HP HORSEPOWER	H HW HOT WATER HYD HYDRANT I INCL INCLUDED ID INSIDE DIAMETER INSUL INSULATION INT INTERIOR J JAN JANITOR K KIT KITCHEN L LAB LABORATORY LAM LAMINATE LAU LAUNDRY LAV LAVATORY LWC LIGHTWEIGHT CONCRETE LCMU LIGHTWEIGHT CONCRETE MASONRY LF LINEAR FOOT LL LIVE LOAD LR LIVING ROOM LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL M MAINT MAINTENANCE MH MANHOLE MFD MANUFACTURED MFR MANUFACTURER MFG MANUFACTURING MO MASONRY OPENING MBR MASTER BEDROOM MATL MATERIAL MAX MAXIMUM MECH MECHANICAL MTL METAL MW MICROWAVE MIN MINIMUM, MINUTE MISC MISCELLANEOUS MR MOISTURE RESISTANT MTD MOUNTED MULL MULLION N NRC NOISE REDUCTION COEFFICIENT NOM NOMINAL N NORTH NIC NOT IN CONTRACT NTS NOT TO SCALE O OFF OFFICE OC ON CENTER OPNG OPENING OPP OPPOSITE OD OUT TO OUT O/O OVERALL ORD OVERFLOW ROOF DRAIN OH OVERHANG OFICI OWNER FURNISHED/ CONTRACTOR INSTALLED OFIOI OWNER FURNISHED/ OWNER INSTALLED	P PT PAINT PR PAIR PNL PANEL PTD PAPER TOWEL DISPENSER PTB PARTICLE BOARD PTN PARTITION PVG PAVING PERF PERFORATED PERIM PERIMETER PLAS PLASTER PERP PERPENDICULAR PLAM PLASTIC LAMINATE PLYWD POLYVINYL CHLORIDE PVC POUND PCF POUNDS PER CUBIC FOOT PLF POUNDS PER LINEAR FOOT PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PCC PRECAST CONCRETE PREFAB PREFABRICATE PREFIN PREFINISH PROJ PROJECT PL PROPERTY LINE Q QT QUARRY TILE R REF REFERENCE, REFRIGERATOR RCP REFLECTED CEILING PLAN REINF REINFORCE REQD REQUIRED RESIL RESILIENT REST RESTROOM RA RETURN AIR REV REVISION R RISER, RADIUS, RANGE RD ROOF DRAIN RFG ROOFING RM ROOM RO ROUGH OPENING RS ROUGH SAWN S SNU SANITARY NAPKIN DISPENSER SNDU SANITARY NAPKIN DISPOSAL UNIT SS SANITARY SEWER SCHED SCHEDULE SECT SECTION SHT SHEET SV SHEET VINYL SHV SHELVING SHR SHOWER SIM SIMILAR SCWD SOLID CORE WOOD STC SOUND TRANSMISSION CLASS S SOUTH SPEC SPECIFICATION SB SPLASH BLOCK SF SQUARE FOOT SQ IN SQUARE INCH SQ YD SQUARE YARD STD STANDARD STL STL STL JST STEEL JOIST STOR STORAGE SD STORM DRAIN ST STREET	S STRUCT STRUCTURAL SUSP CLG SUSPENDED CEILING SW SWITCH T TK BD TACKBOARD TEL TELEPHONE TV TELEVISION TMPT TEMPERED TERRAZZO THK THICKNESS TPD TOILET PAPER HOLDER T&G TONGUE AND GROOVE T&B TOP AND BOTTOM TOC TOP OF CURB TOF TOP OF CONCRETE TOP OF FOOTING TOS TOP OF MASONRY TOW TOP OF WALL TB TOWEL BAR TOW TOWEL TB TOWEL BAR TRANS TRANSPARENT TF FINISH TYP TYPICAL U UNFIN UNFINISHED UH UNIT HEATER UNO UNLESS NOTED OTHERWISE V VR VAPOR RETARDER VNR VENEER VENT VENTILATION VERT VERTICAL VEST VESTIBULE VB VINYL BASE VCT VINYL COMPOSITION TILE VWC VINYL WALL COVERING VWF VINYL WALL FABRIC V VOLT W WSC WAINSCOT WC WALL COVERING, WATER CLOSET WH WATER HEATER WP WATERPROOFING, WORKING POINT WT WEIGHT WVF WELDED WIRE FABRIC W WEST, WIDE WDW WINDOW WGL WIRED GLASS W WITH W/O WITHOUT WD WOOD
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CORE & SHELL BUILDING STREETS OF WEST PRYOR LOT 5

2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY,
MISSOURI 64081

GRAPHIC SYMBOLS

ELEVATION TAG	B3	BEARING ELEVATION MARK	EL - FLOOR 100'-0"
WALL SECTION TAG	B3 A-202 B3	MATCHLINE	A-101 / 1 A-101 / 1
DETAIL CALLOUT	SIM A2 A-303	DESCRIPTIVE ARROW	NEW EXISTING
PARTITION TYPE TAG	P2	CENTERLINE MARK	CL
WINDOW TAG	11	SPOT ELEVATION	SPOT
DOOR TAG	D101B	DEMOLITION MARK	1
ROOM TAG	101	GENERAL NOTE MARK	1
		NEW CONSTRUCTION MARK	1
		REVISION MARK	1
		EQUIPMENT TAG	ti

CODE SUMMARY

PROJECT SCOPE:
CORE & SHELL DOCUMENTS. DRAWINGS FOR TENANT IMPROVEMENT WILL BE ISSUED A SEPARATE PERMIT AND PROVIDED BY OTHERS.

JURISDICTIONAL BUILDING CODES:

INTERNATIONAL BUILDING CODE	2018
INTERNATIONAL MECHANICAL CODE	2018
NATIONAL ELECTRICAL CODE	2017
INTERNATIONAL PLUMBING CODE	2017
INTERNATIONAL FIRE CODE	2018
INTERNATIONAL FUEL GAS CODE	2018

ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2009

CONSTRUCTION INFORMATION:

BUILDING TYPE:	NEW CONSTRUCTION
OCCUPANCY TYPE:	M (MERCANTILE)
CONSTRUCTION TYPE:	V-B (NON-SPRINKLERED)
ALLOWABLE HEIGHT:	40 FT
ALLOWABLE STORIES:	26 FT
ACTUAL STORIES:	1
GROSS BUILDING AREA:	5,800 SF

ALLOWABLE FLOOR AREA:

ALLOWABLE FLOOR AREA (M): 9,000 SF
*FRONTAGE INCREASE N/A DUE TO ACTUAL AREA LESS THAN ALLOWABLE FLOOR AREA

GROSS BUILDING AREA:

TENANT A:	1,785 SF
TENANT B:	1,548 SF
TENANT C:	2,376 SF
TOTAL GROSS AREA:	5,709 SF

OCCUPANT LOAD CALCS:

TENANT A (M): IBC TABLE 1004.5	1,785 SF
MERCANTILE	60 GROSS
OCCUPANTS	30 OCC

TENANT B (M): IBC TABLE 1004.5	1,548 SF
TOTAL NET SF	60 GROSS
MERCANTILE	26 OCC
OCCUPANTS	

TENANT C (M): IBC TABLE 1004.5	2,376 SF
TOTAL NET SF	60 GROSS
MERCANTILE	40 OCC
OCCUPANTS	

EXITS REQUIRED:

TENANT A (M): IBC TABLE 1006.2.1	1 EXIT
EXITS REQUIRED	2 EXITS
EXITS PROVIDED	

TENANT B (M): IBC TABLE 1006.2.1	1 EXIT
EXITS REQUIRED	1 EXIT
EXITS PROVIDED	

TENANT C (M): IBC TABLE 1006.2.1	1 EXIT
EXITS REQUIRED	2 EXITS
EXITS PROVIDED	

STRUCTURAL FIRE PROTECTION (IBC TABLE 601)

PRIMARY STRUCTURAL FRAME	(0) HOUR
EXTERIOR BEARING WALLS	(0) HOUR
EXTERIOR NON-BEARING WALLS & PARTITIONS	(0) HOUR
INTERIOR NON-BEARING WALLS & PARTITIONS	(0) HOUR
STRUCTURAL FRAME	(0) HOUR
FLOOR CONSTRUCTION	(0) HOUR
ROOF CONSTRUCTION	(0) HOUR

STRUCTURAL FIRE PROTECTION (IBC TABLE 601)

1. AUTOMATIC SPRINKLER SYSTEM (NO)
2. EXIT LIGHTING PROVIDED

CODE PLAN LEGEND

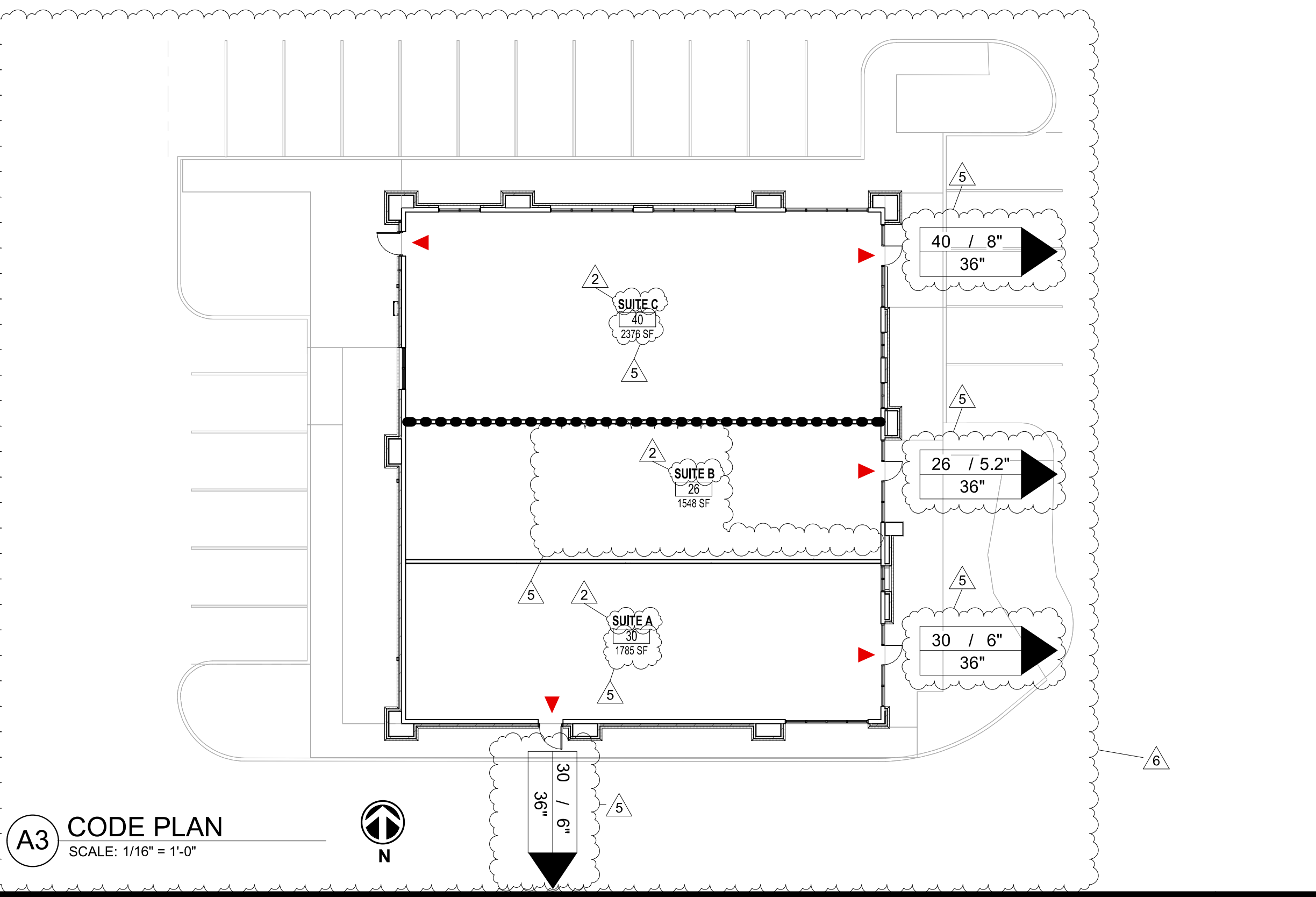
2-HR SEPARATION	•••••
EXIT	▲
NOTE:	2-HR SEPARATION WALL WILL BE CONSTRUCTED AS A FIRE BARRIER, UL #1423, EXTENDING FROM FOUNDATION TO UNDERSIDE OF ROOF SHEATHING.

EGRESS LOAD TAGS

DOOR / OPENING	EGRESS WIDTH PROVIDED
1200" / 24"	34"

CODE PLAN ROOM TAG

ROOM	ROOM NAME
100	OCCUPANCY LOAD
1000 SF	ROOM AREA (SQUARE FEET)



DESIGN TEAM

ARCHITECTURAL DESIGN
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2231 SW WANAMAKER RD SUITE 303
TOPEKA, KANSAS 66614
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RJS@SDGARCH.COM

MECHANICAL & ELECTRICAL DESIGN
PKMR ENGINEERS
13300 WEST 98TH STREET
LENEXA, KANSAS, 66215
CONTACT: BRYAN LEINWETTER
PHONE: 913-492-2400
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STRUCTURAL DESIGN
CERTUS STRUCTURAL ENGINEERS
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CIVIL DESIGN
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919 W STEWART ROAD
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SHEET INDEX

GENERAL

G-001 COVER SHEET

CIVIL

- C-1 SITE IMPROVEMENT PLAN
- C-2 TOPOGRAPHIC SURVEY
- C-3 DEMOLITION SHEET
- C-4 SITE PLAN
- C-5 UTILITY
- C-6 GRADING
- C-7 ADA RAMPS
- C-8 EROSION CONTROL
- C-9 EROSION DETAILS
- C-10 DETAILS
- C-11 DETAILS
- C-12 DETAILS
- C-13 LANDSCAPE

ARCHITECTURAL

- A-100 SITE PLAN
- A-101 FIRST FLOOR PLAN
- A-102 ROOF PLAN
- A-201 EXTERIOR ELEVATIONS
- A-301 WALL SECTIONS
- A-302 WALL SECTIONS
- A-303 WALL SECTIONS
- A-304 WALL SECTIONS
- A-401 ENLARGED RESTROOM PLAN
- A-501 BUILDING DETAILS
- A-502 BUILDING DETAILS
- A-601 DOOR / FRAME SCHEDULE & DETAILS

STRUCTURAL

- S-001 GENERAL NOTES
- S-101 FOUNDATION PLAN
- S-102 WALL FRAMING PLAN
- S-103 ROOF FRAMING PLAN
- S-201 FRAMING ISOMETRIC
- S-301 CONCRETE DETAILS & SECTIONS
- S-601 FRAMING DETAILS & SECTIONS
- S-602 FRAMING DETAILS & SECTIONS
- S-603 FRAMING DETAILS & SECTIONS

MEP

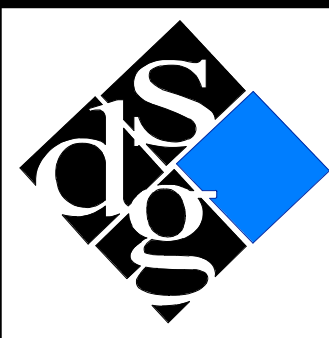
- ME-101 MEP SPECIFICATIONS
- ME-201 PHOTOMETRIC PLAN
- ME-202 SITE MEP PLAN

MECHANICAL

- M-101 PLUMBING FLOOR PLAN
- M-201 HVAC FLOOR PLAN

ELECTRICAL

- E-101 POWER FLOOR PLAN
- E-201 LIGHTING FLOOR PLAN



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SCHWERTDT DESIGN GROUP INC
NO CERTIFICATE OF AUTH. #F00333876

CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5
2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

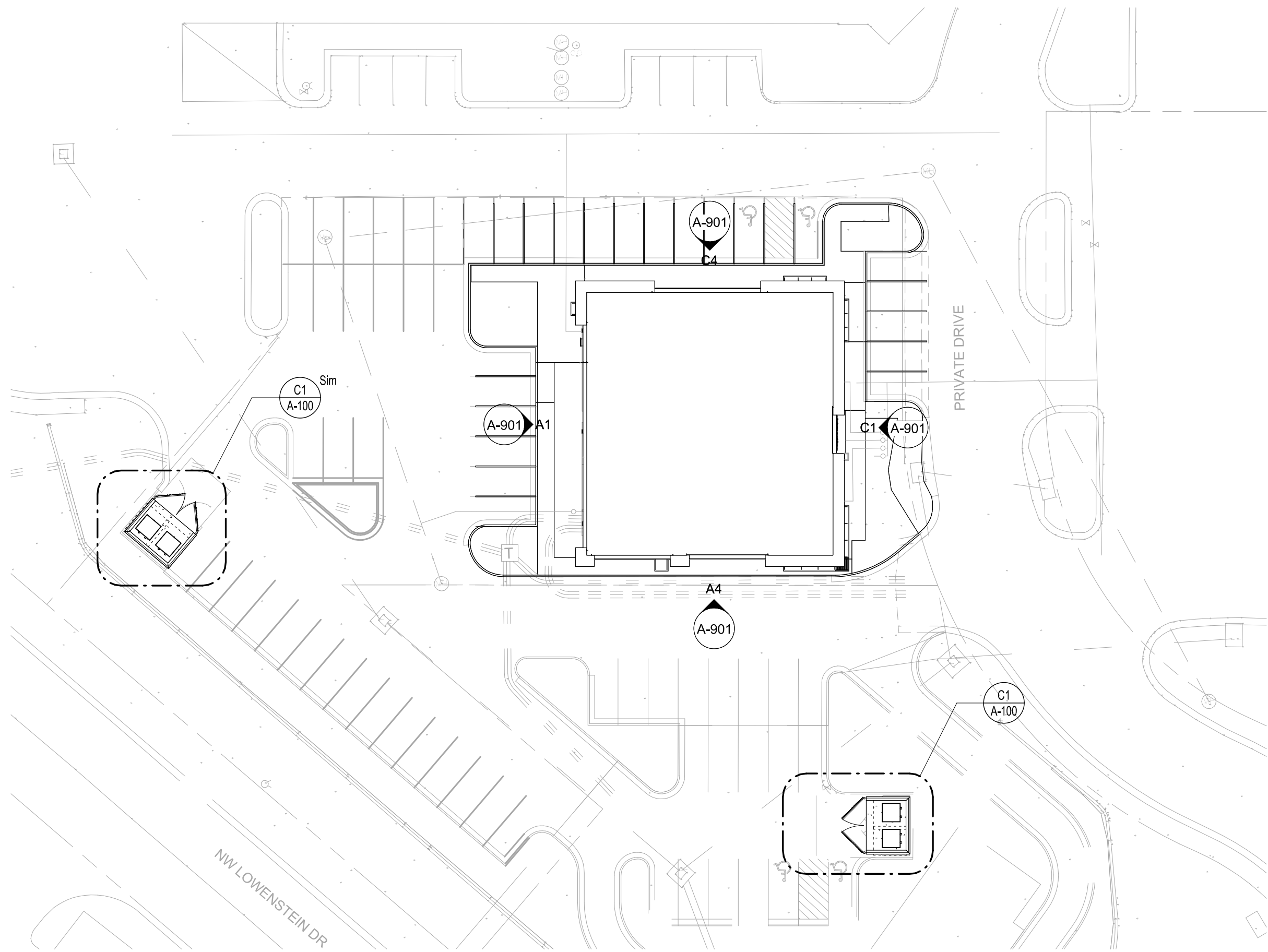
SUBMISSION DATES		
2	ASI-1	06-13-2023
5	ASI-4	11-07-2023
6	ASI-5	02-19-2024

SHEET TITLE
COVER SHEET

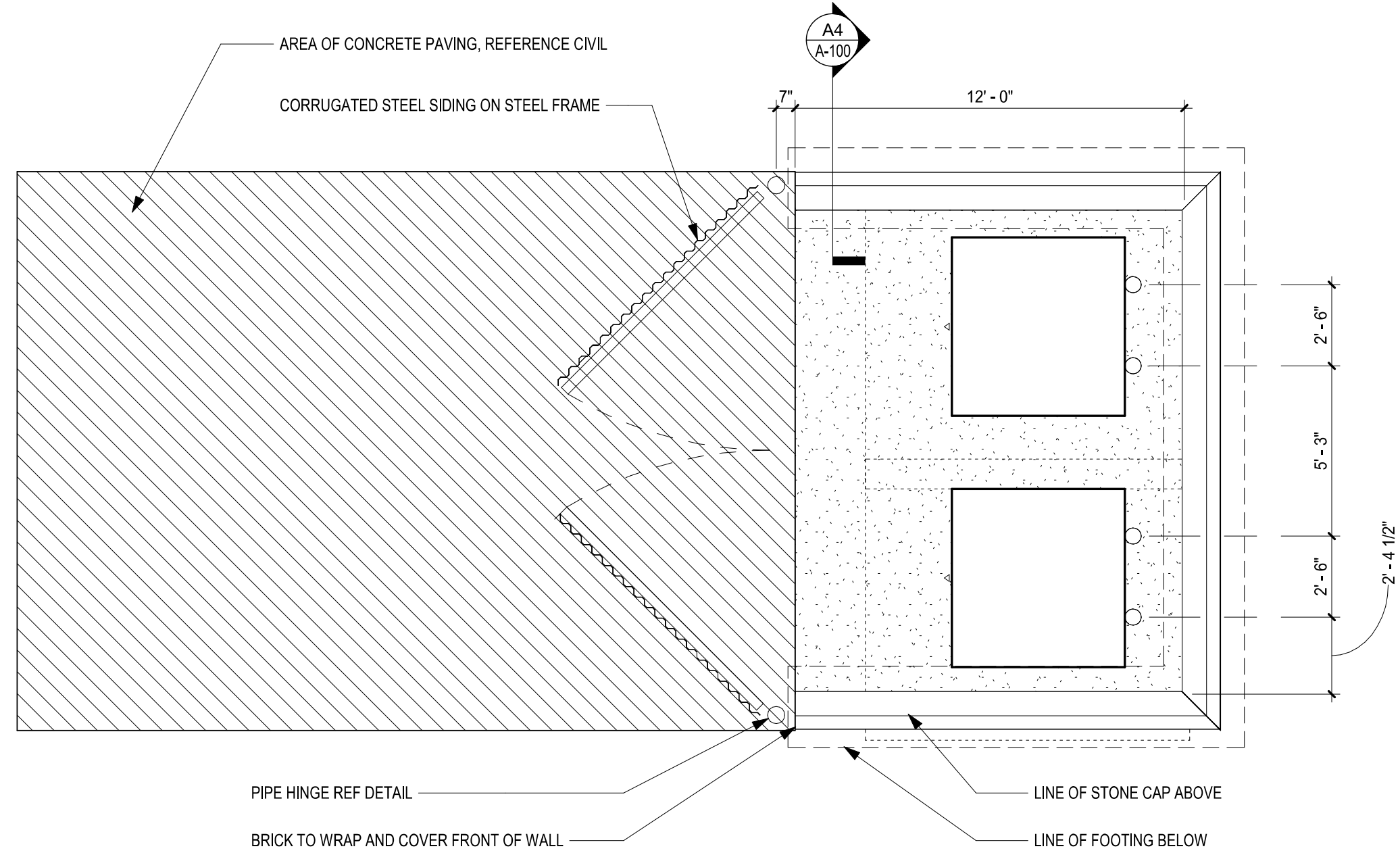
PROJECT NUMBER
230117

SHEET NUMBER
G-001

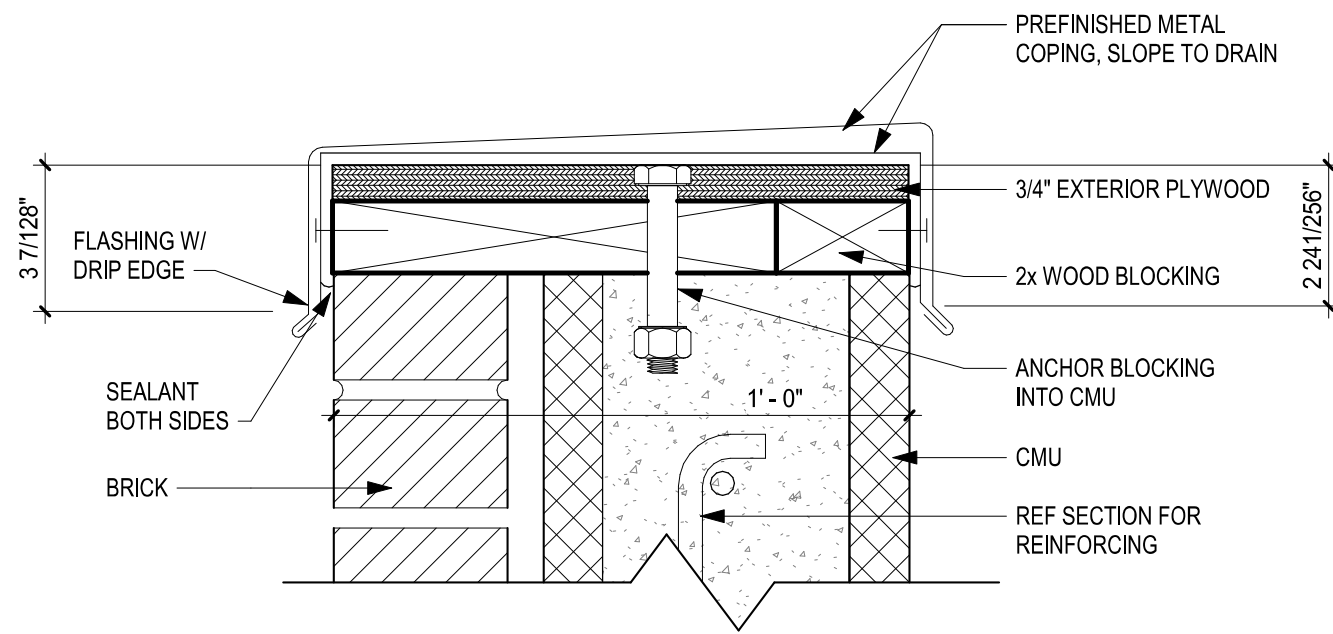
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DATE: 5/23/2023 4:19:09 PM
DRAWN BY: Author



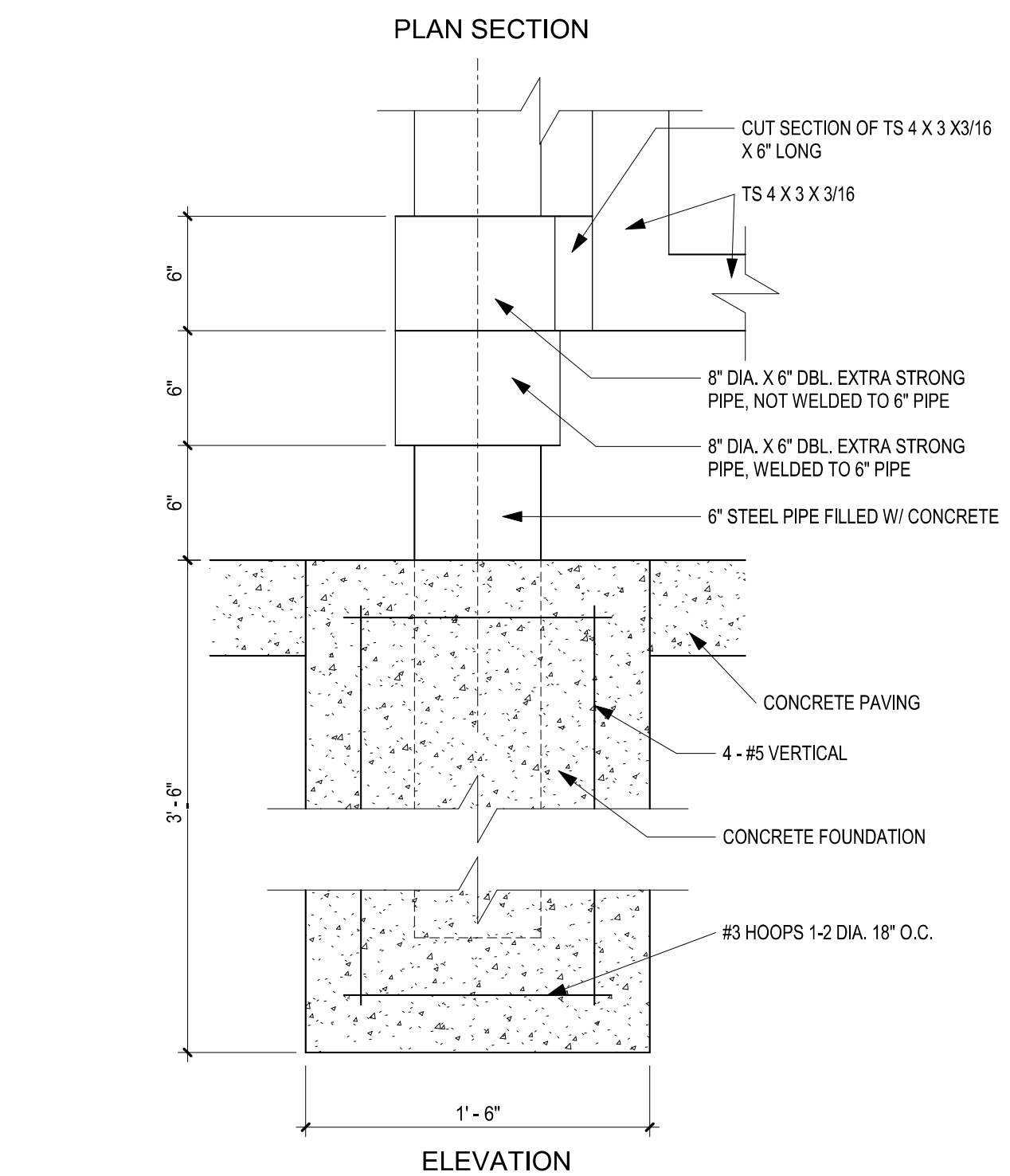
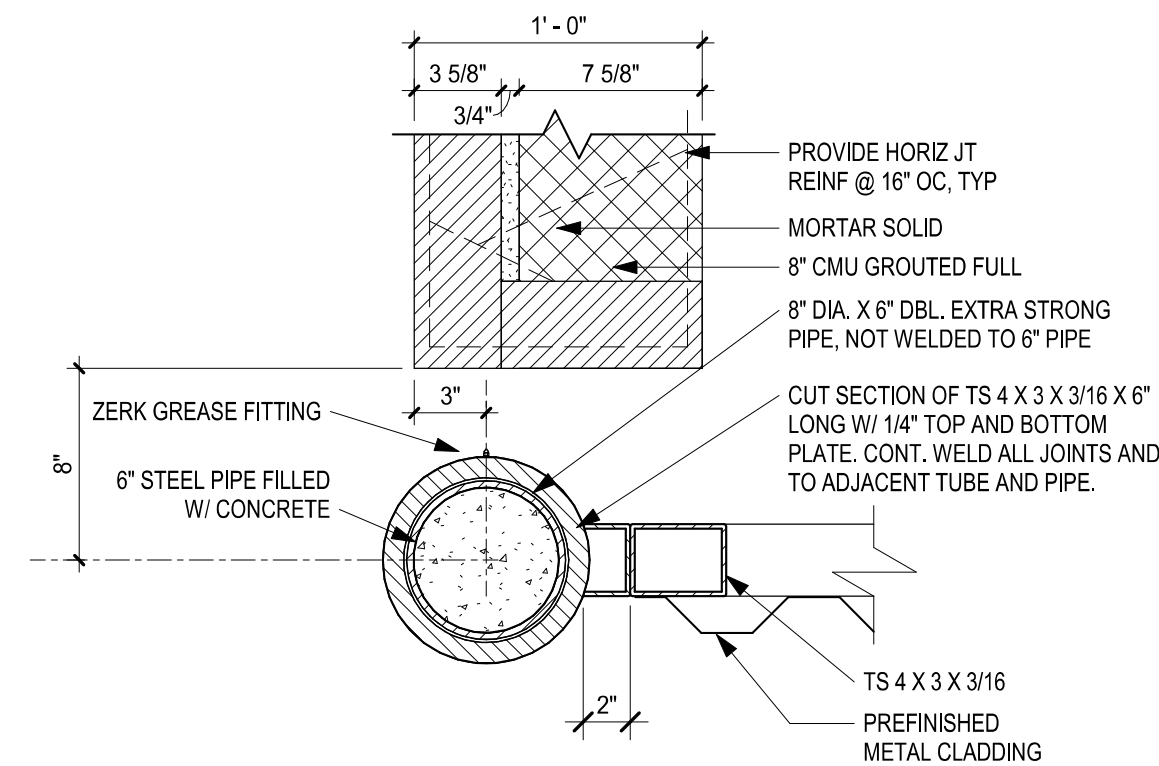
A1 SITE PLAN
SCALE: 1" = 30'-0"



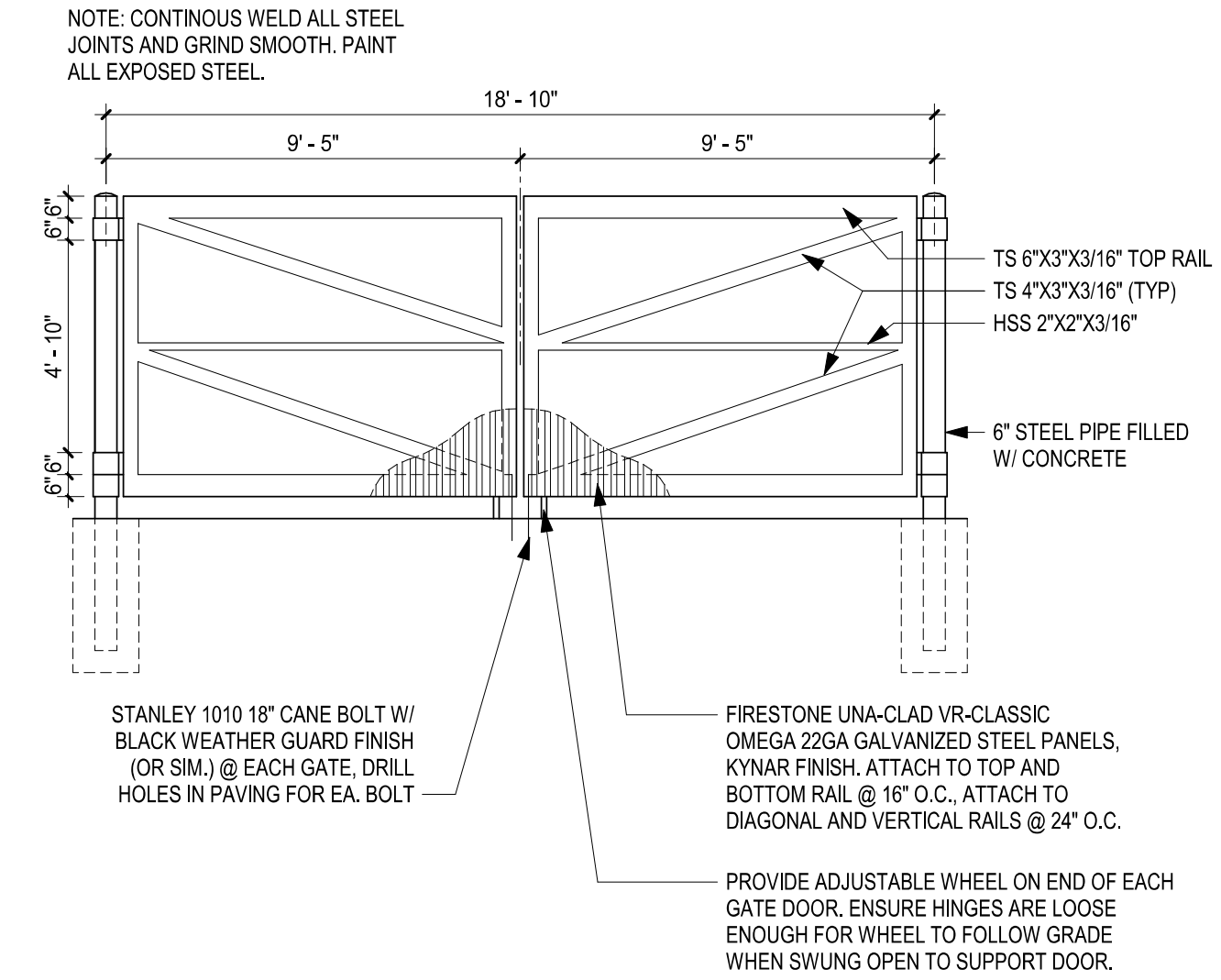
C1 TYP. TRASH ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



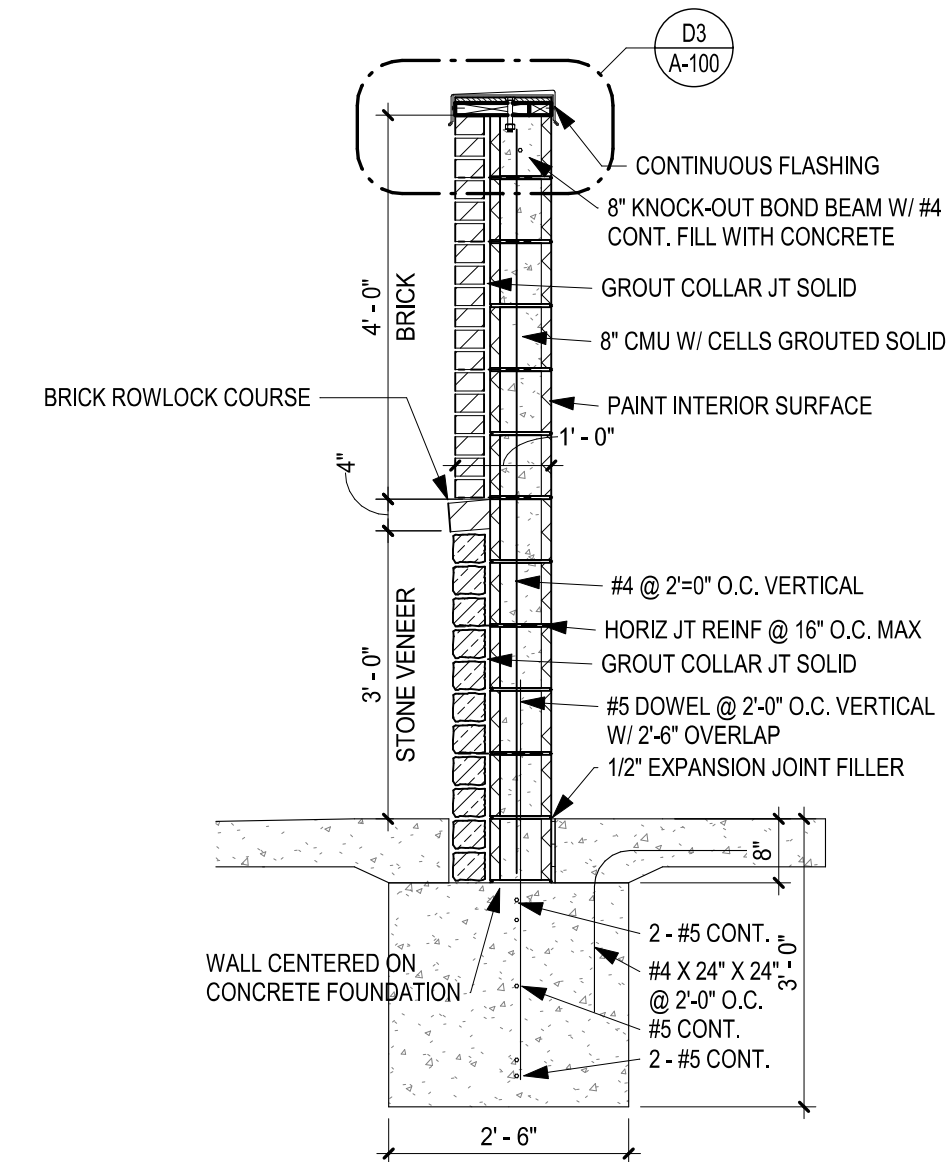
D3 TRASH ENCLOSURE CAP DETAIL
SCALE: 3" = 1'-0"



A3 ENCLOSURE GATE HINDGE DETAIL
SCALE: 1 1/2" = 1'-0"



C4 TRASH ENCLOSURE GATE ELEVATION
SCALE: 1/4" = 1'-0"



A4 TRASH ENCLOSURE WALL SECTION
SCALE: 1/2" = 1'-0"



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CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5
LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

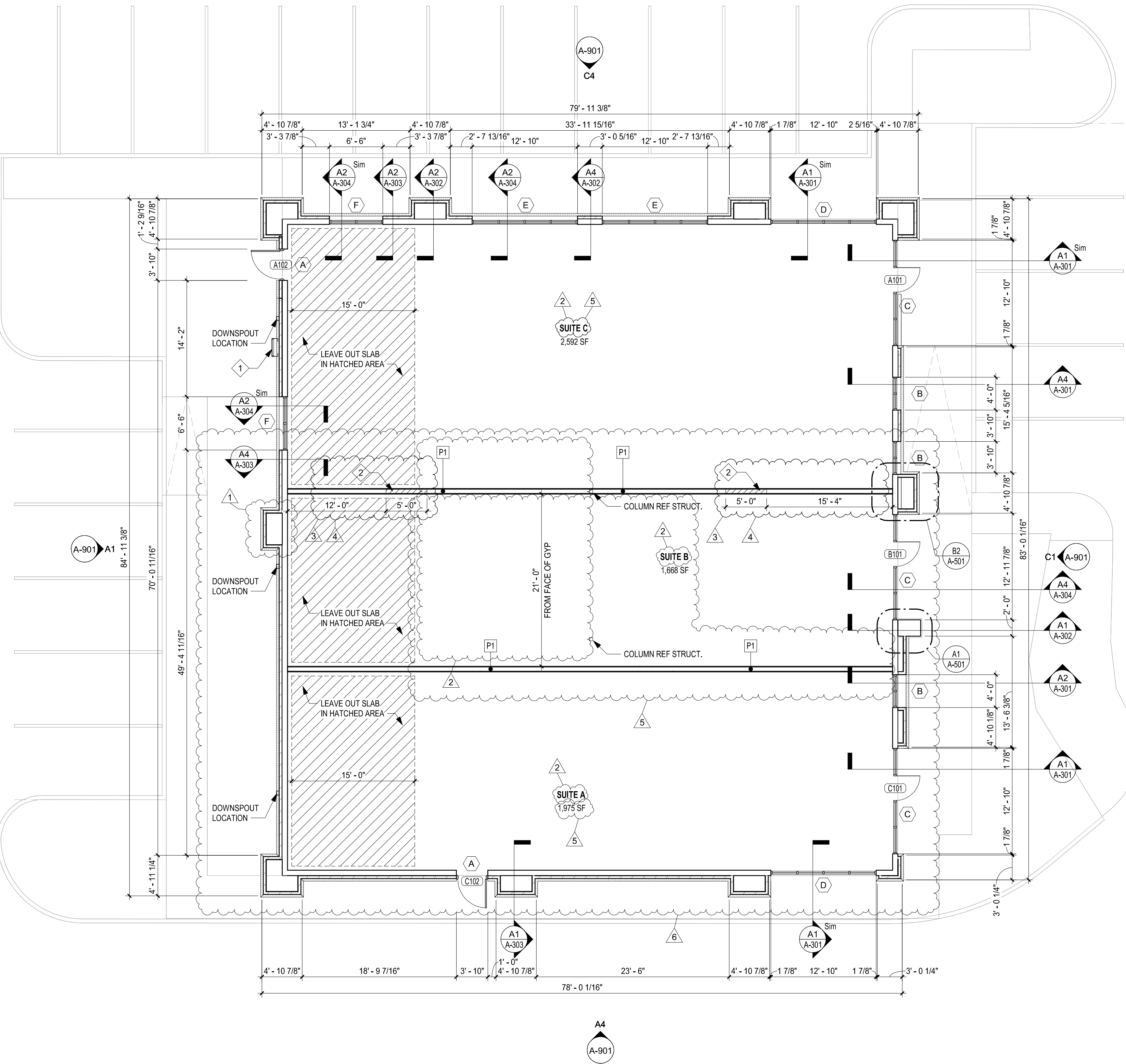
SUBMISSION DATES
PROGRESS PRINT ONLY

SHEET TITLE
SITE PLAN

PROJECT NUMBER
230117

SHEET NUMBER
A-100

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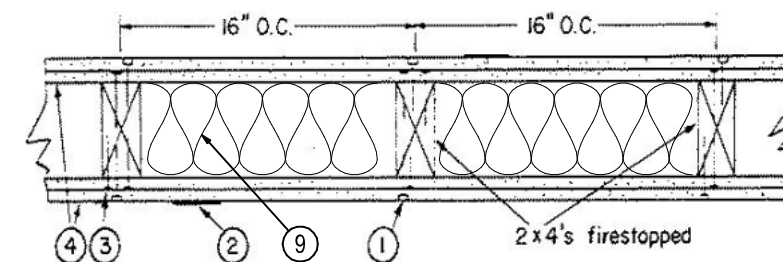
A1 FIRST FLOOR
SCALE: 1/8" = 1'-0"

KEYED PLAN NOTES

1. LANDLORD TO PROVIDE PADLOCK FOR ROOF ACCESS LADDER AND 5 KEYS TO PADLOCK
2. FUTURE PASS-THROUGH 5' W x 9' H OPENINGS. REF. STRUCTURAL.

PARTITION TYPES

2 HR WALL ASSEMBLY PER UL DESIGN NO. U301



1. Nailheads — Exposed or covered with joint compound.
2. Joints — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, non 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.
3. Nails — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.
4. Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other than 48 in., gypsum board to be installed horizontally.
5. NOT USED
6. NOT USED
7. NOT USED
8. NOT USED
9. Batts and Blankets — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZIZ) Categories for names of Classified companies.
10. NOT USED
11. NOT USED

NOTE: ALL PENETRATIONS THRU DEMISING WALLS MUST BE FIRESTOPPED.

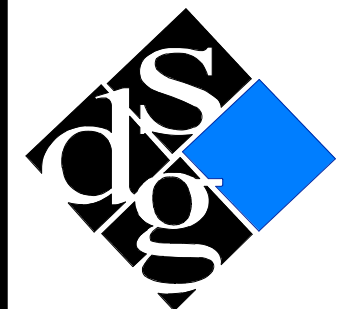
P1 2HR RATED PARTITION

- NON-RATED GYPSUM BOARD PARTITION
1. 5/8" Gypsum board on each side of 3 1/2" wood studs @ 16" O.C.
 2. Water resist gyp on restroom side.

P2 NON-RATED PARTITION

- PLUMBING CHASE PARTITION
1. 5/8" Gypsum board on one side only of 3 1/2" wood studs @ 16" O.C.
 2. Water resist gyp on restroom side.

P3 PLUMBING CHASE PARTITION



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CORE & SHELL BUILDING
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2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES

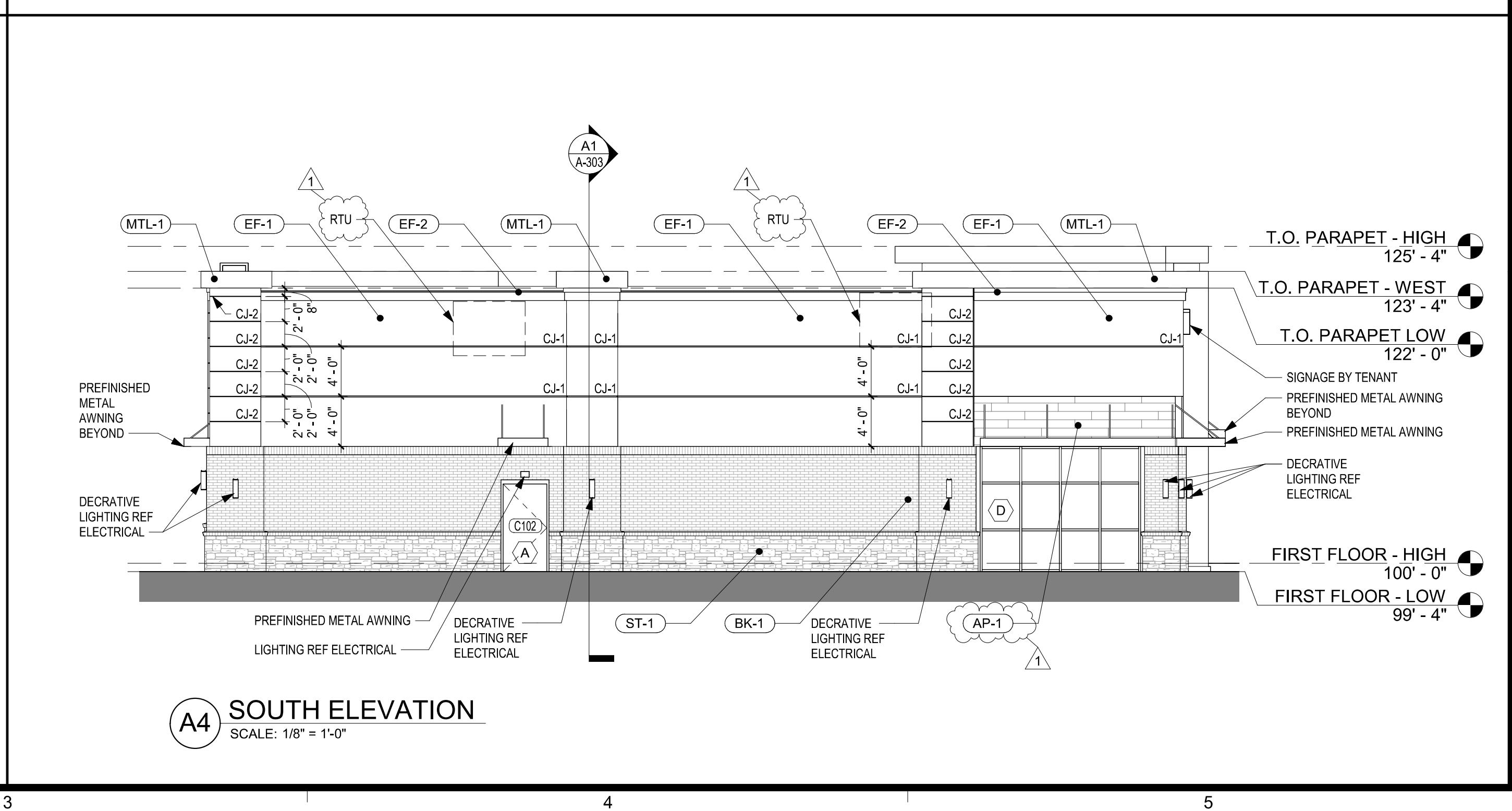
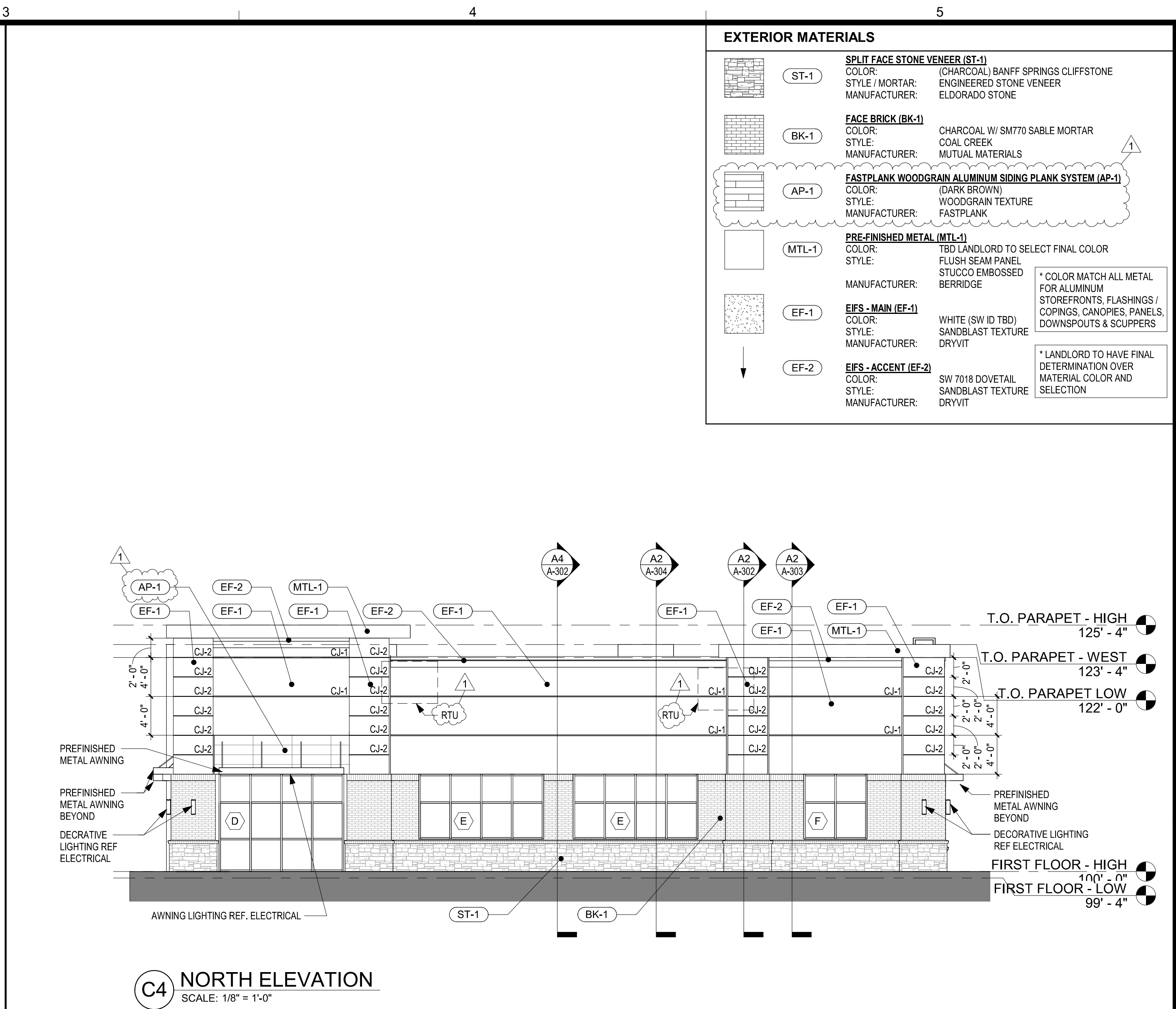
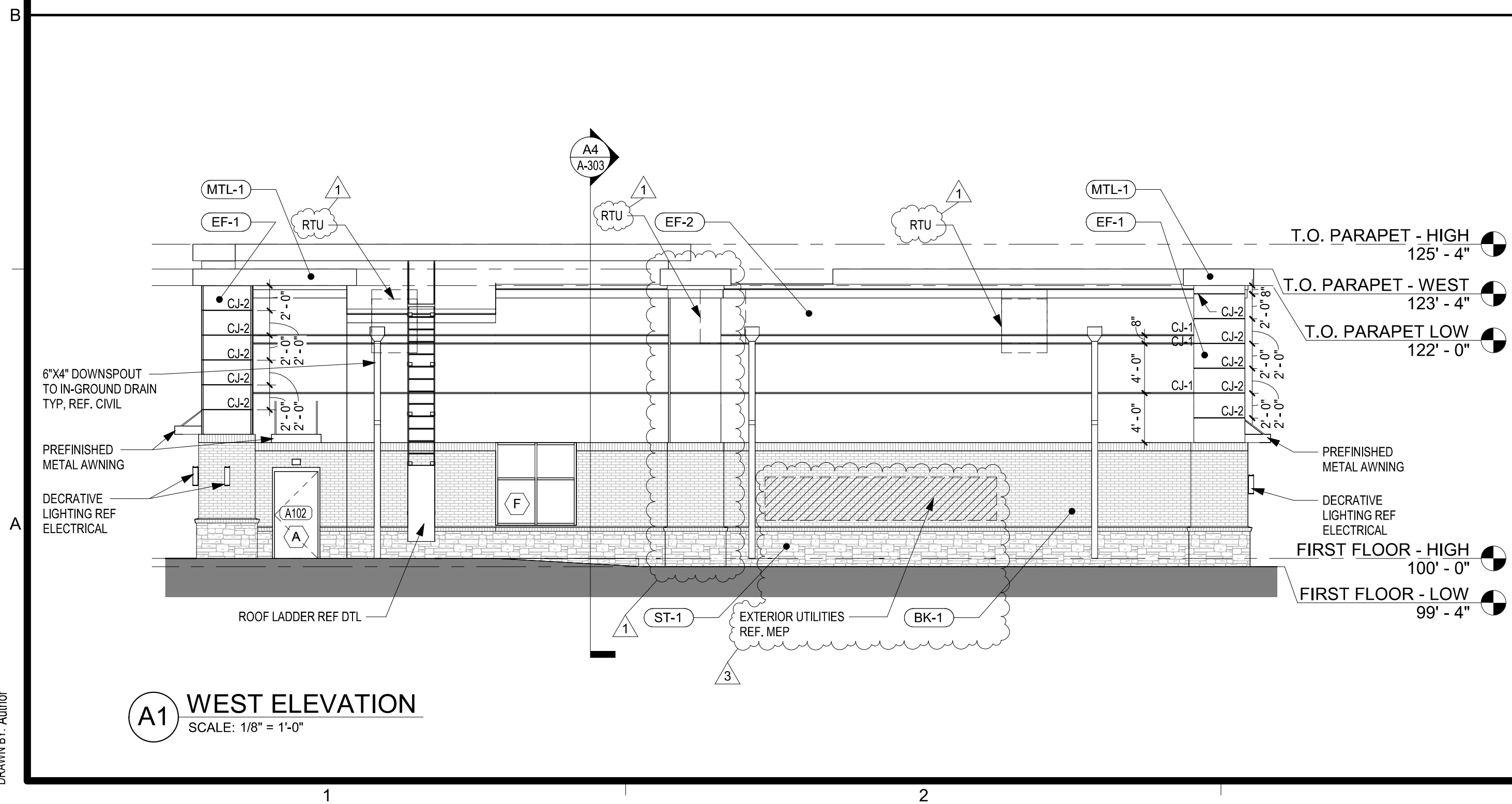
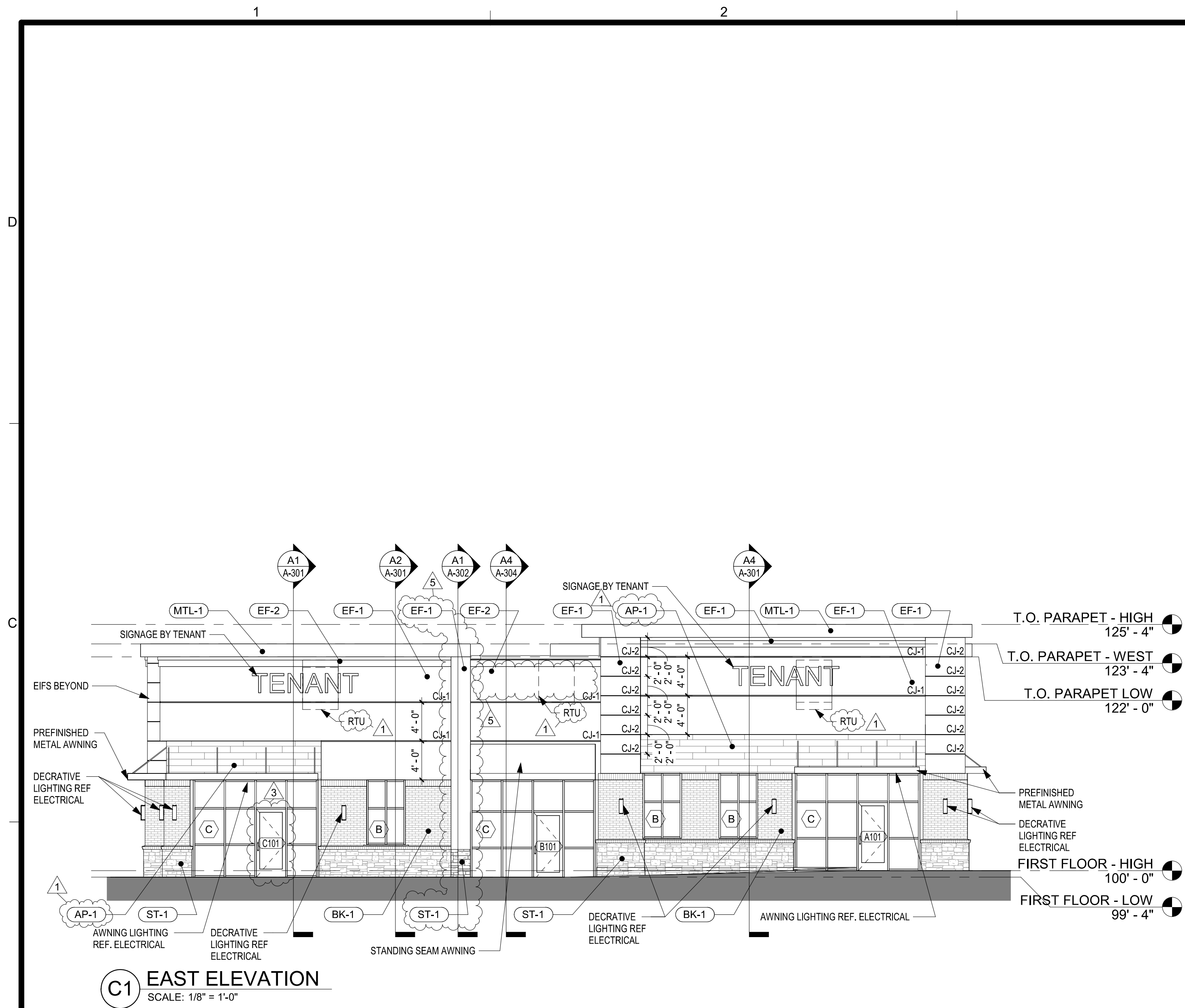
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6	AS1-5	02-19-2024


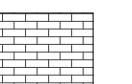
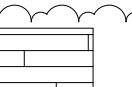
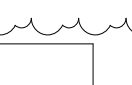
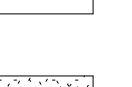

SHEET TITLE
FIRST FLOOR PLAN

PROJECT NUMBER
230117

SHEET NUMBER
A-101

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EXTERIOR MATERIALS	
	SPLIT FACE STONE VENEER (ST-1) COLOR: (CHARCOAL) BANFF SPRINGS CLIFFSTONE STYLE / MORTAR: ENGINEERED STONE VENEER MANUFACTURER: ELDORADO STONE
	FACE BRICK (BK-1) COLOR: CHARCOAL W/ SM770 SABLE MORTAR STYLE: COAL CREEK MANUFACTURER: MUTUAL MATERIALS
	FASTPLANK WOODGRAIN ALUMINUM SIDING PLANK SYSTEM (AP-1) COLOR: (DARK BROWN) STYLE: WOODGRAIN TEXTURE MANUFACTURER: FASTPLANK
	PRE-FINISHED METAL (MTL-1) COLOR: TBD LANDLORD TO SELECT FINAL COLOR STYLE: FLUSH SEAM PANEL MANUFACTURER: STUCCO EMBOSSED BERRIDGE
	EIFS - MAIN (EF-1) COLOR: WHITE (SW ID TBD) STYLE: SANDBLAST TEXTURE MANUFACTURER: DRYVIT
	EIFS - ACCENT (EF-2) COLOR: SW 7018 DOVETAIL STYLE: SANDBLAST TEXTURE MANUFACTURER: DRYVIT
* COLOR MATCH ALL METAL FOR ALUMINUM STOREFRONTS, FLASHINGS / COPINGS, CANOPIES, PANELS, DOWNSPOUTS & SCUPPERS	
* LANDLORD TO HAVE FINAL DETERMINATION OVER MATERIAL COLOR AND SELECTION	



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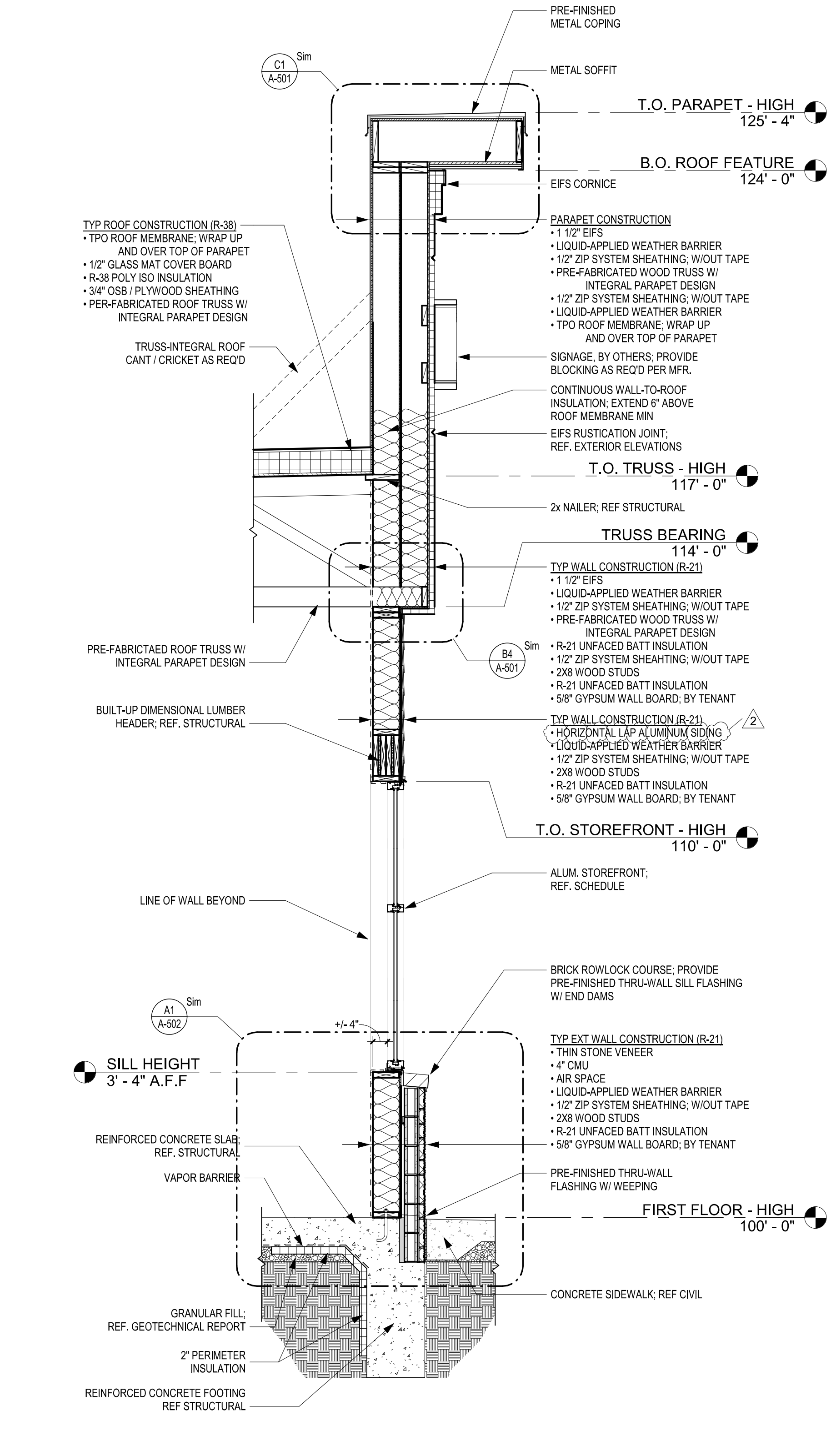
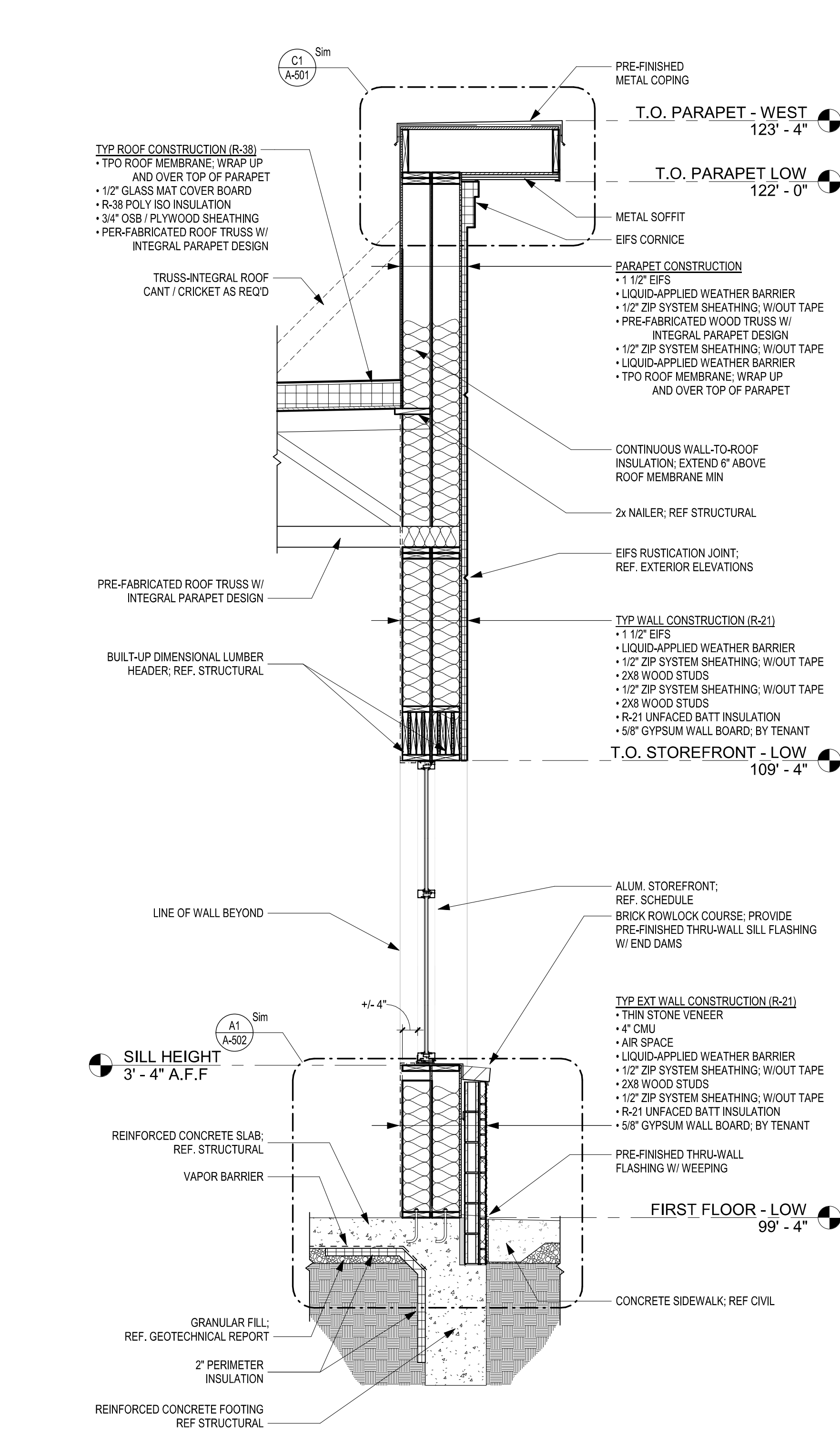
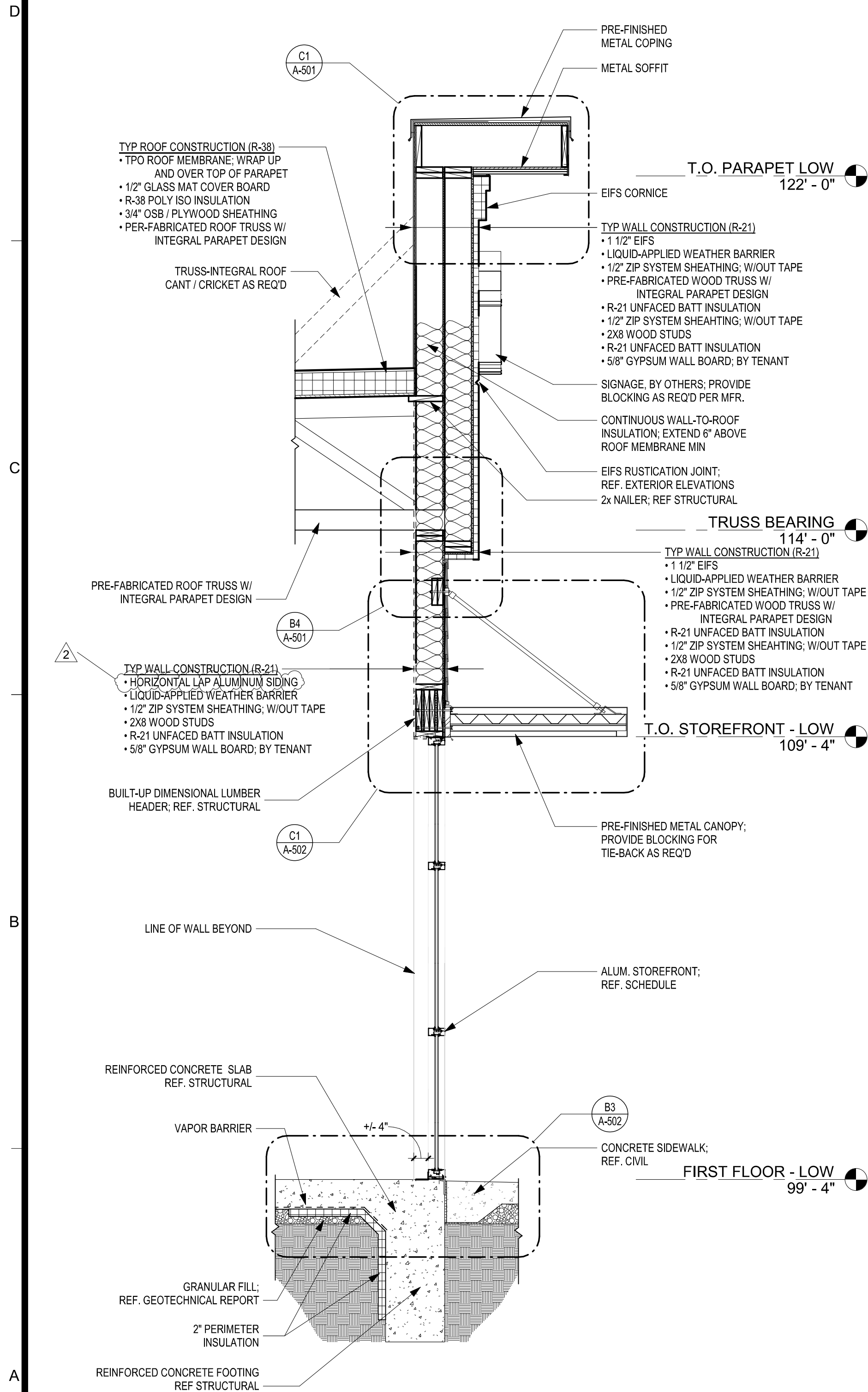
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SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER
230117

SHEET NUMBER
A-201

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**CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5**
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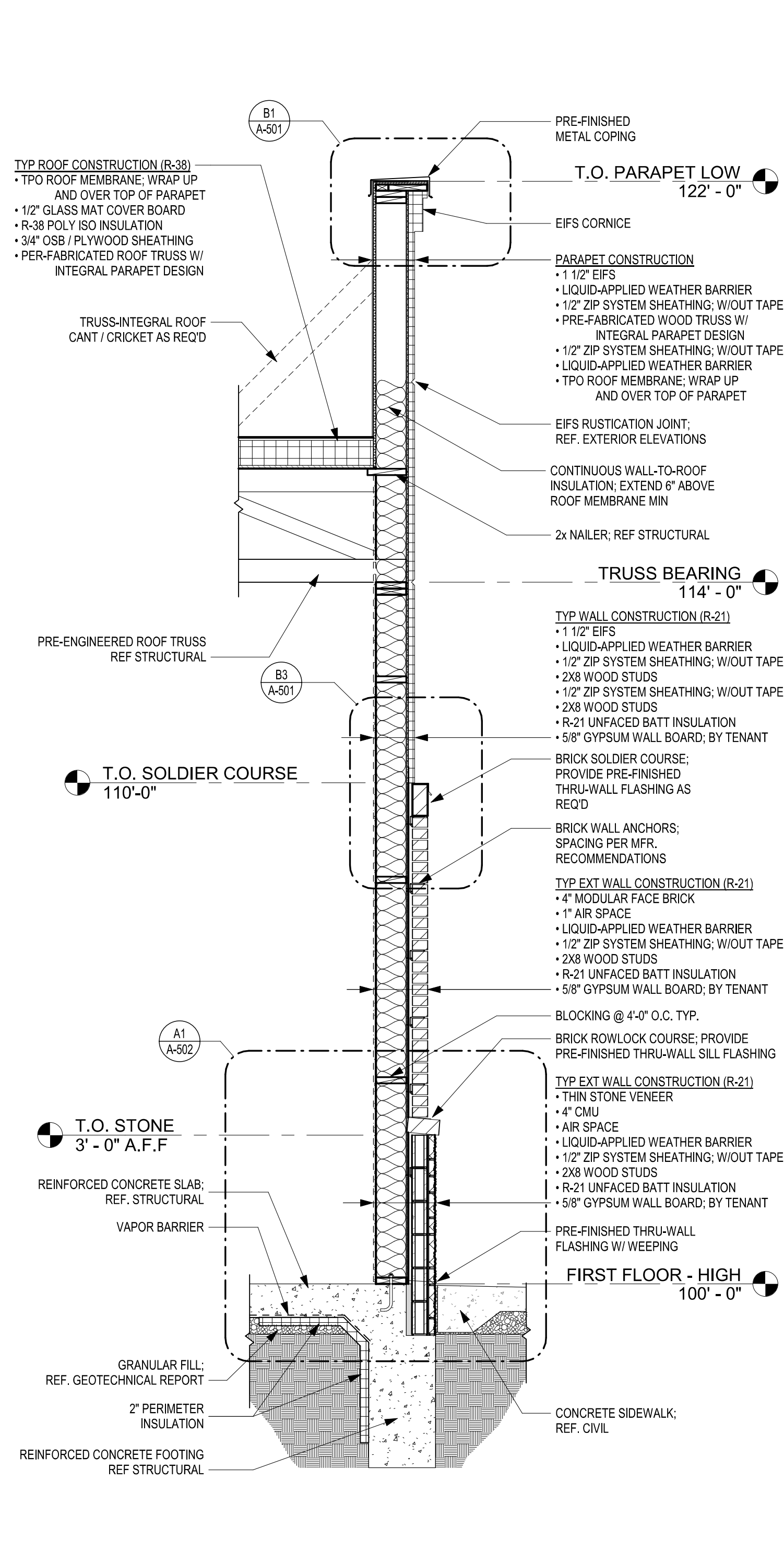
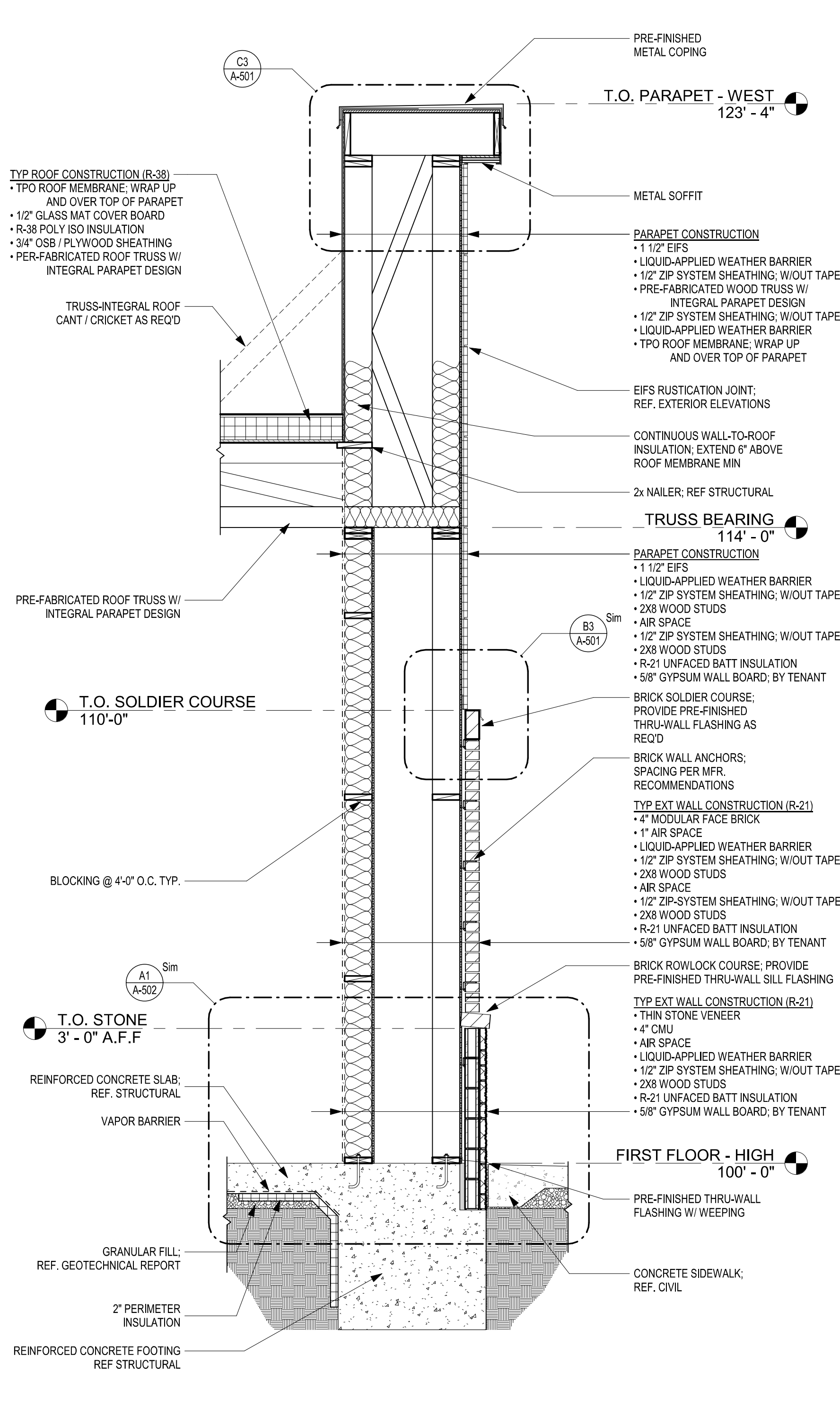
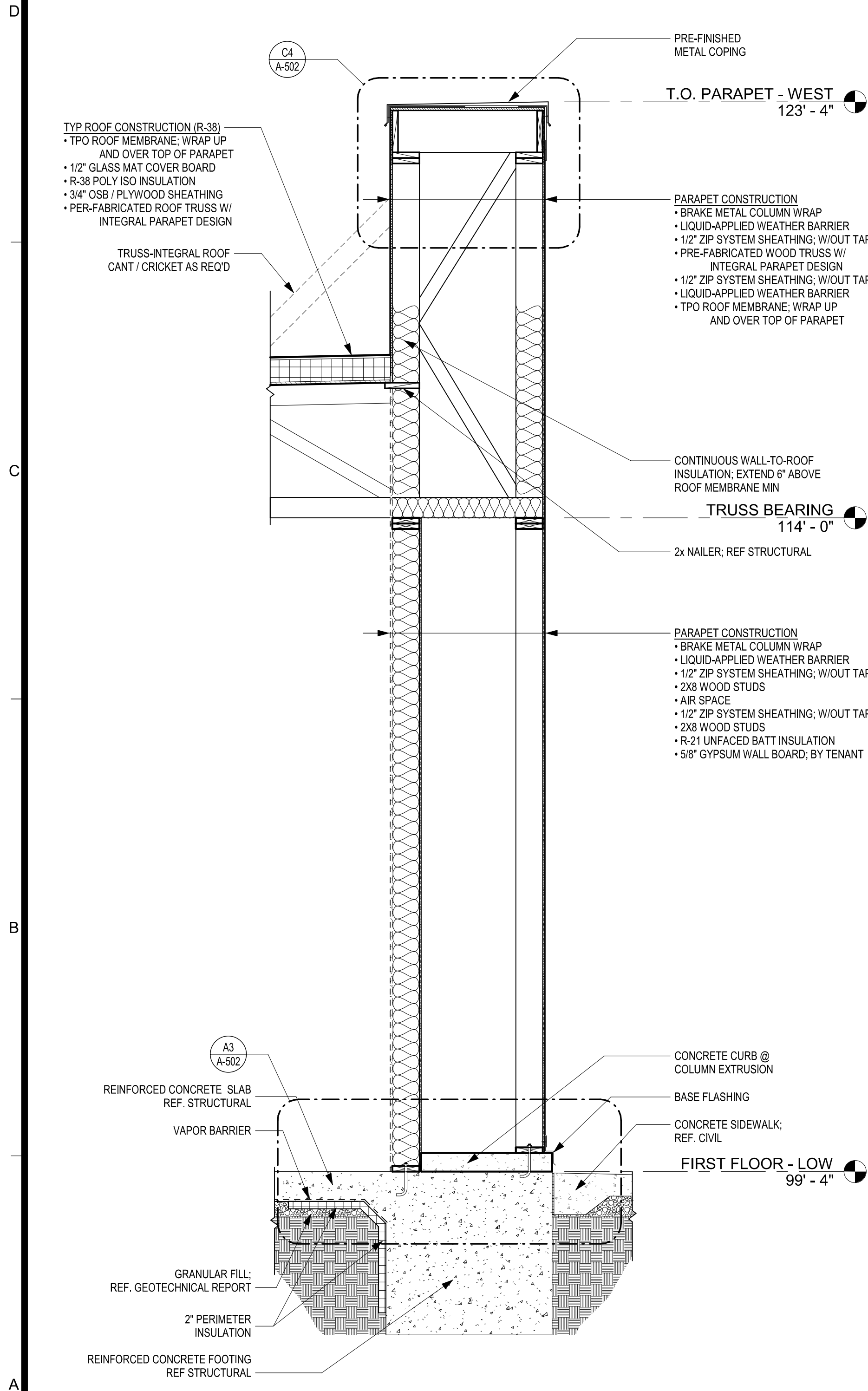
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SHEET TITLE
WALL SECTIONS

PROJECT NUMBER
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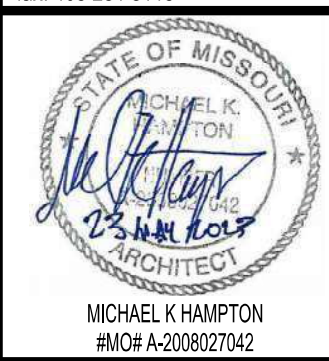
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CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5
LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

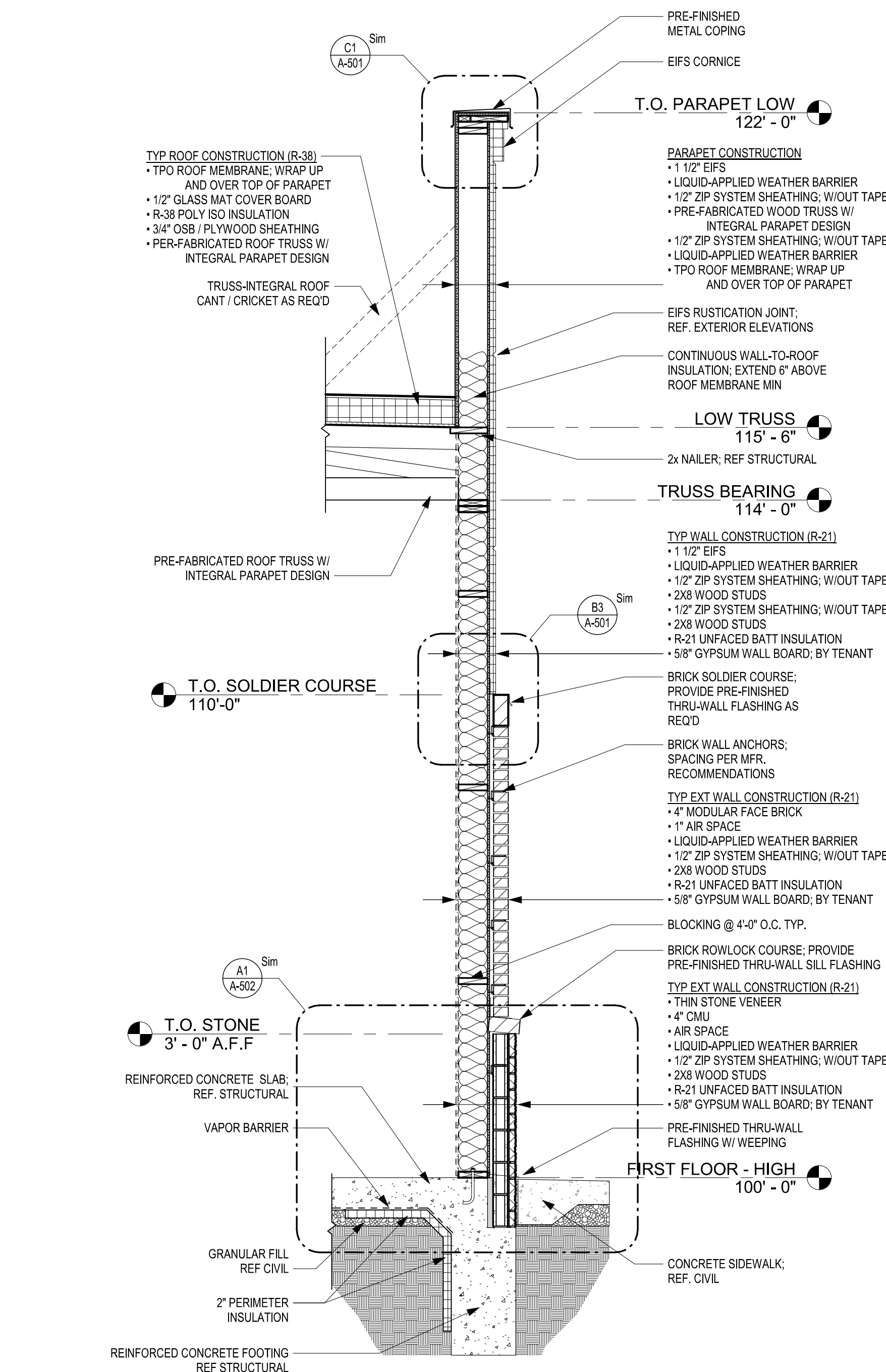
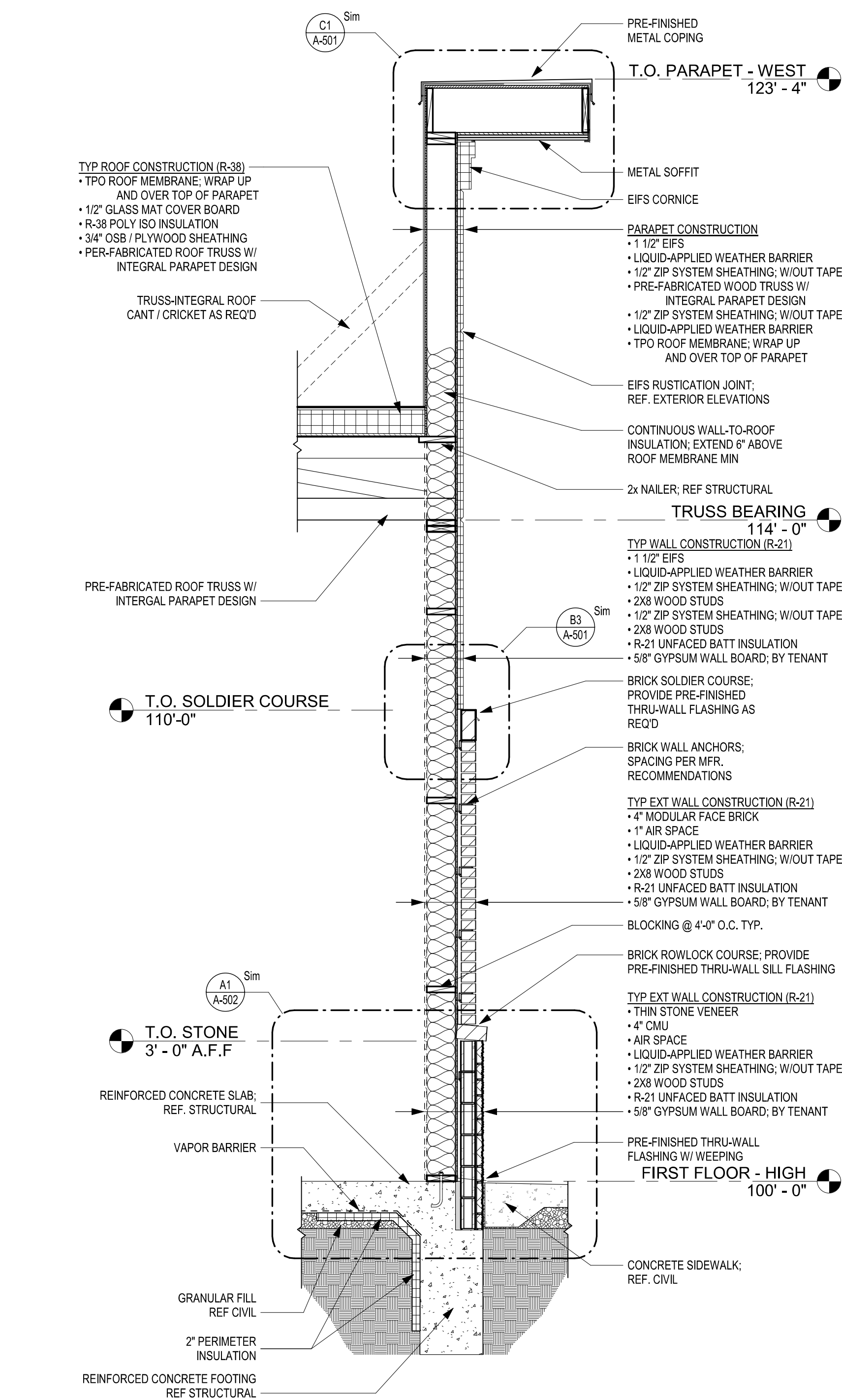
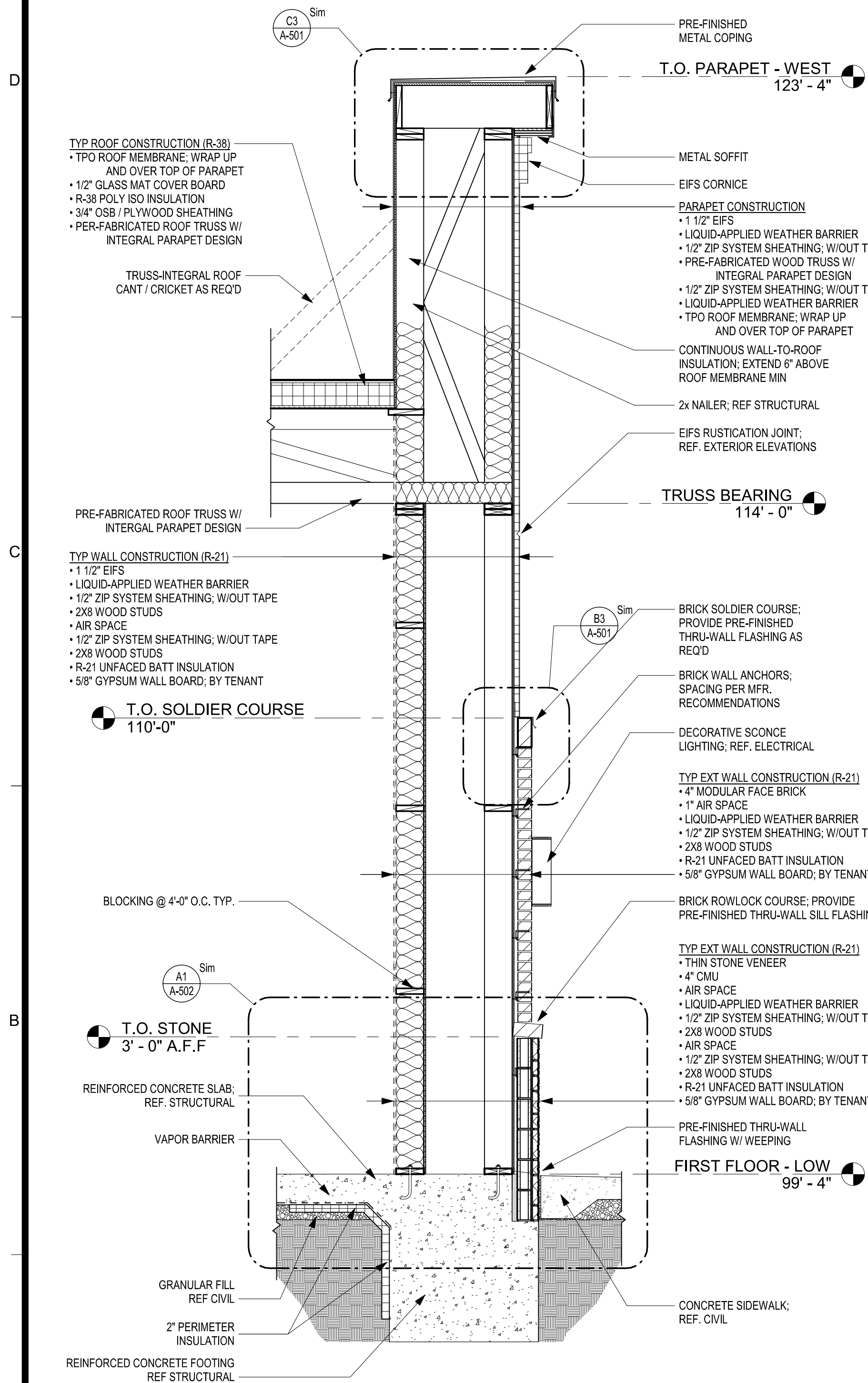
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SHEET TITLE
WALL SECTIONS

PROJECT NUMBER
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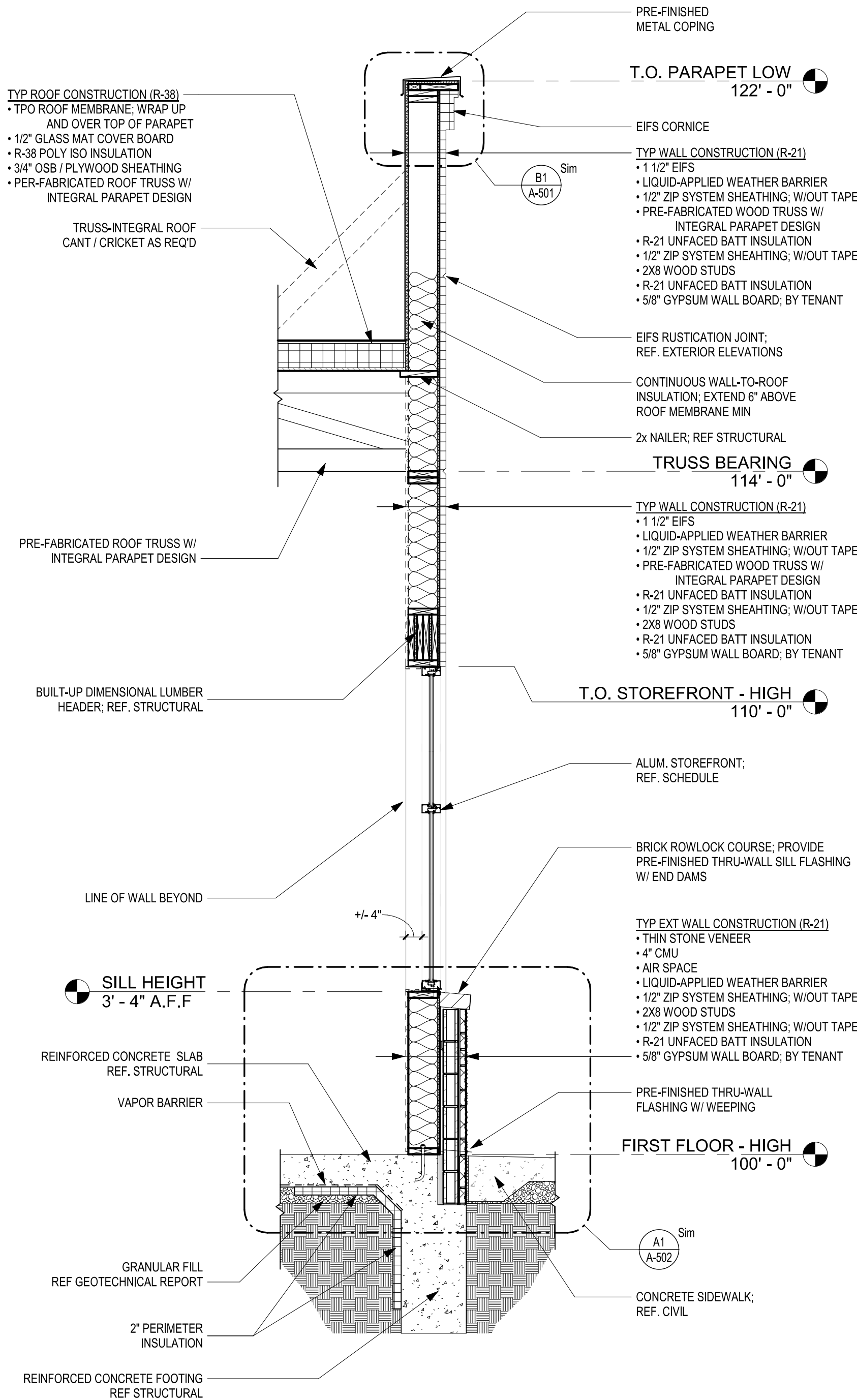
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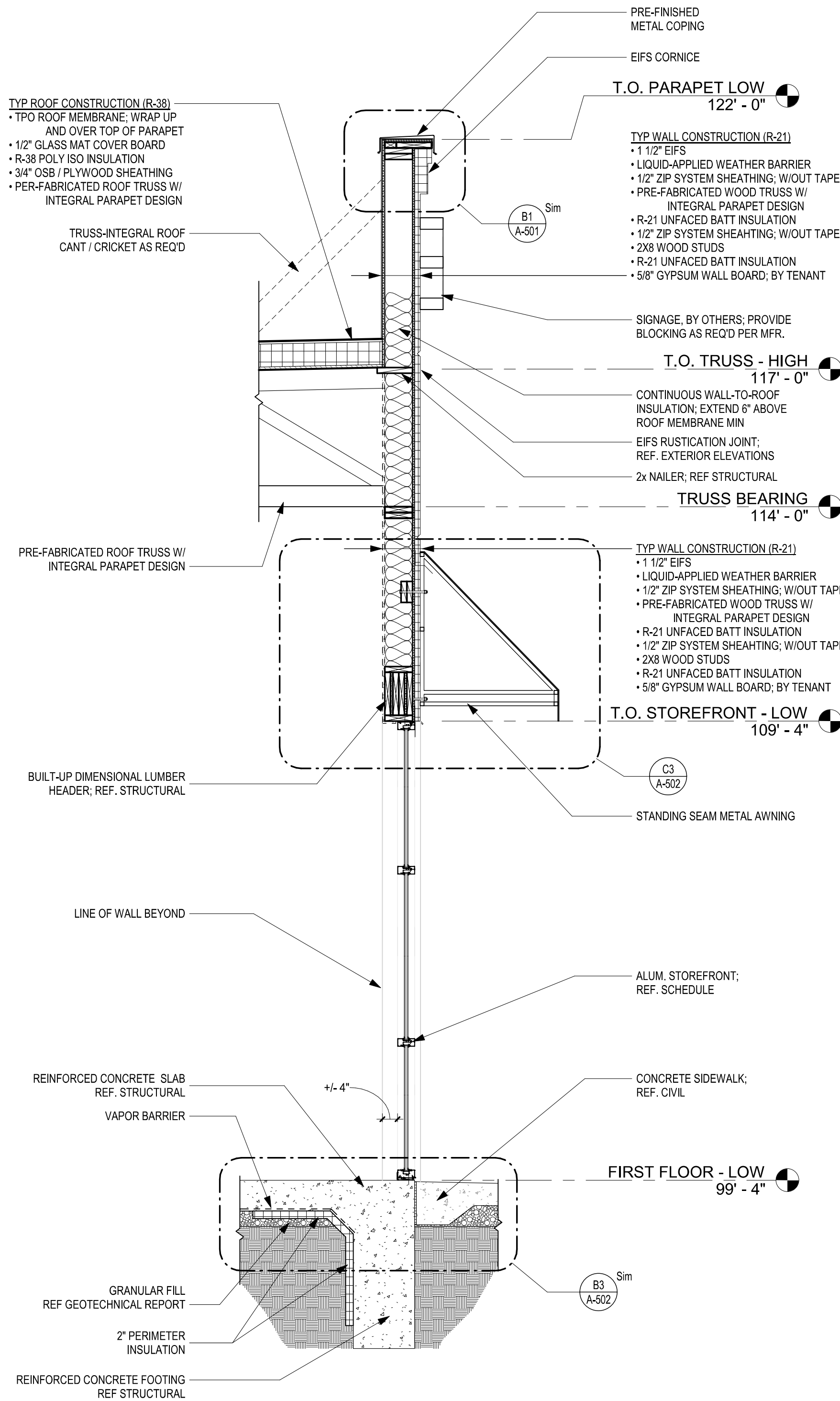
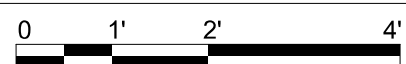
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D
C
B
A



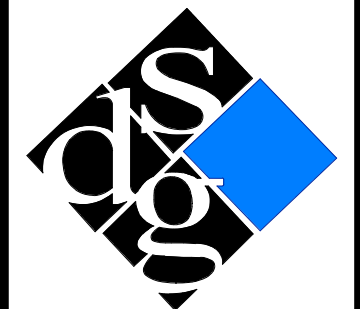
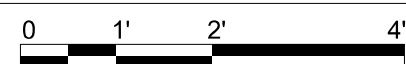
A2 SECTION @ NORTH WALL W/ WINDOW

SCALE: 1/2" = 1'-0"



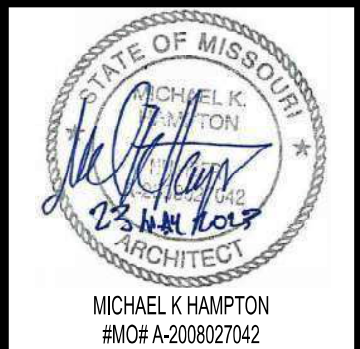
A4 SECTION @ EAST WALL W/ STANDING SEAM AWNING

SCALE: 1/2" = 1'-0"



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CORE & SHELL BUILDING
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SHEET TITLE
WALL SECTIONS

PROJECT NUMBER
230117

SHEET NUMBER
A-304

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2

3

4

5

1

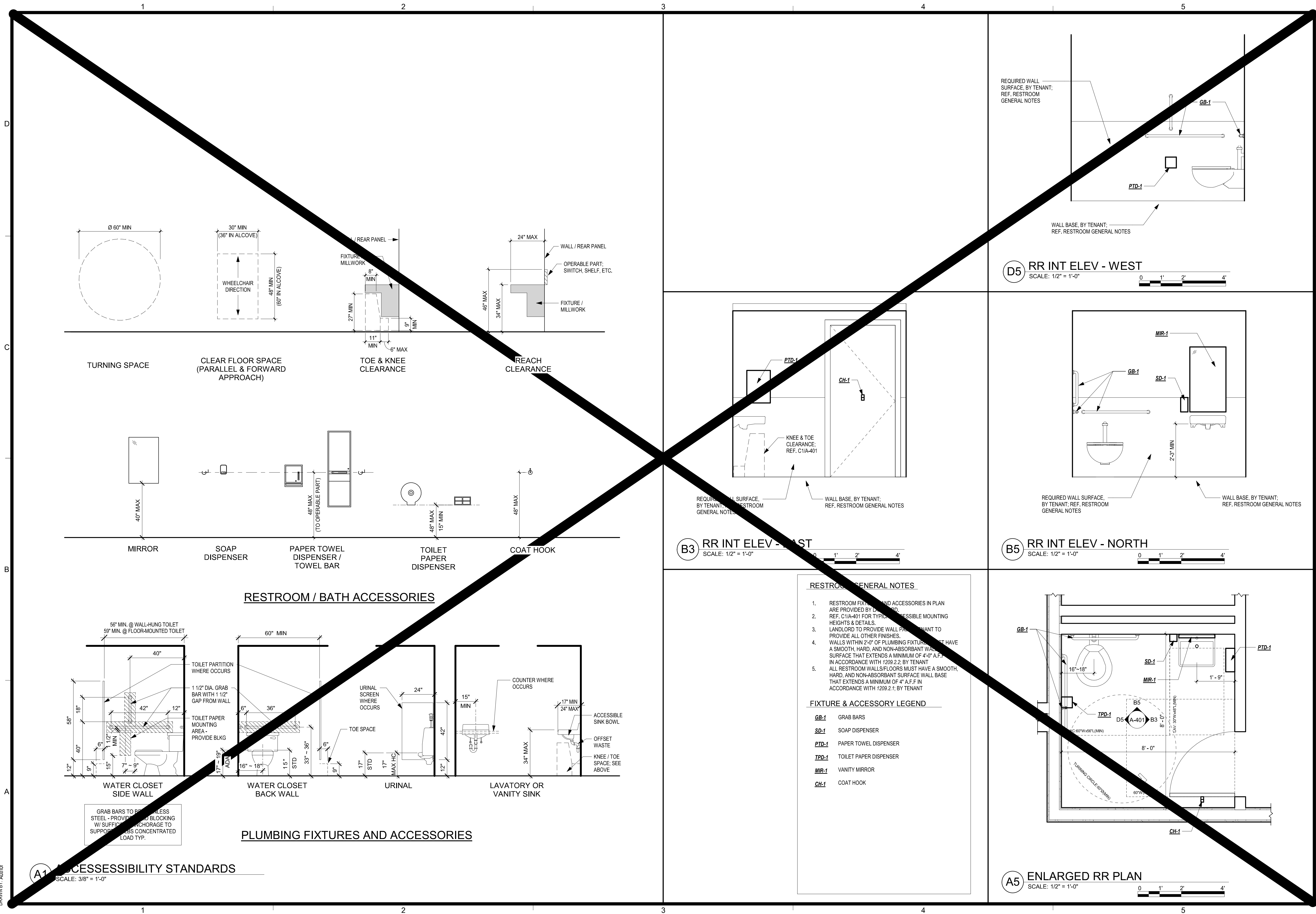
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3

4

5

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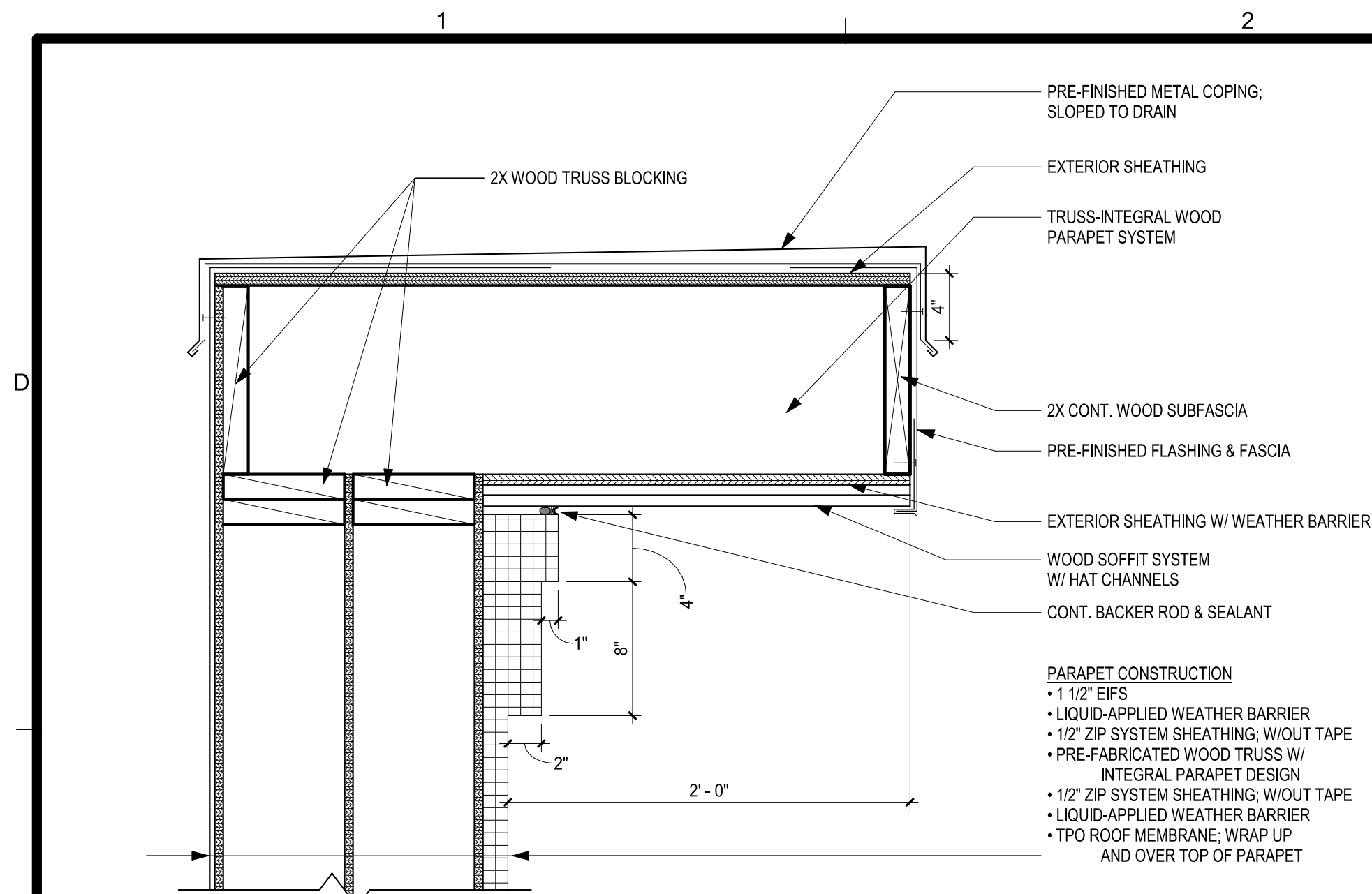
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ENLARGED RESTROOM
PLAN

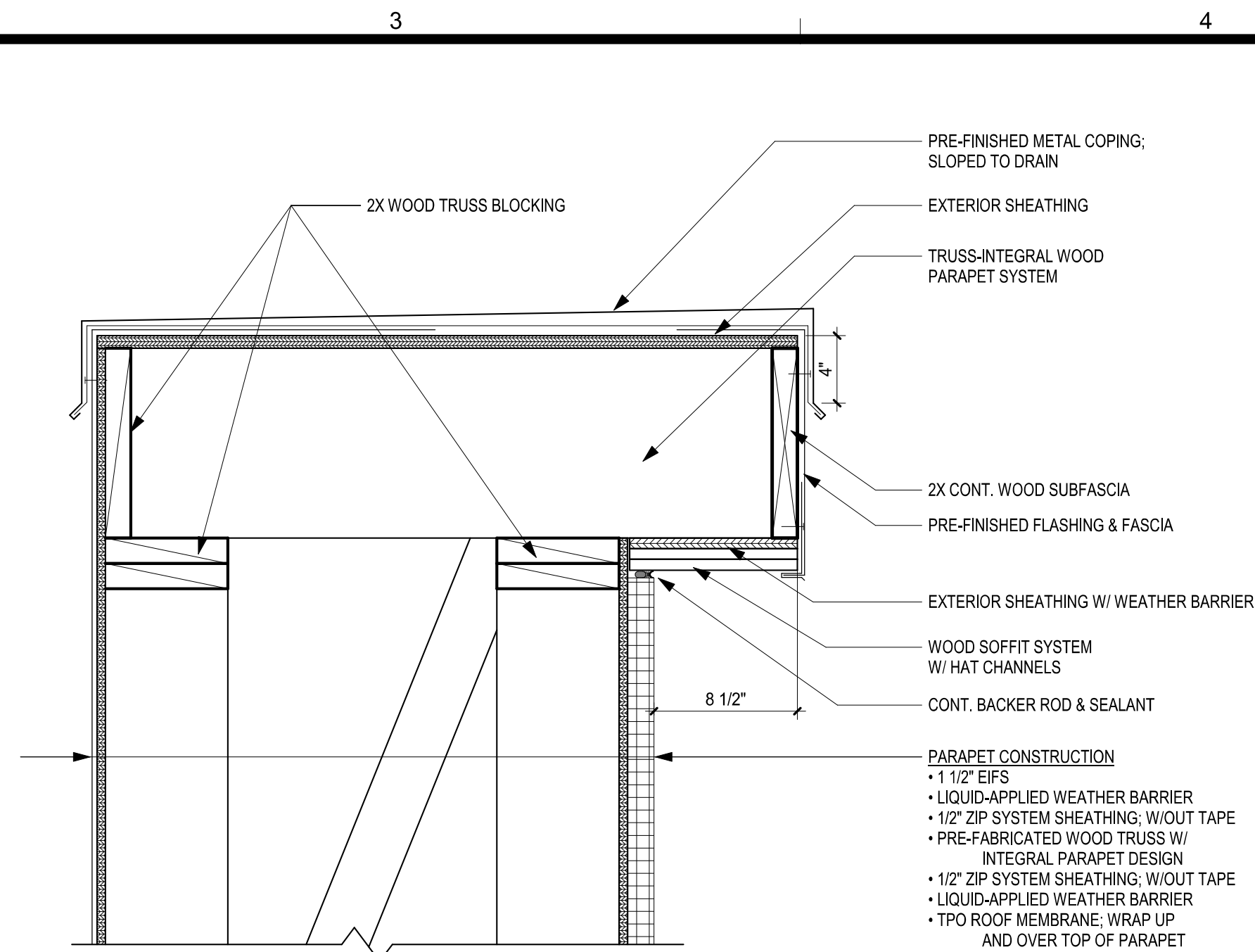
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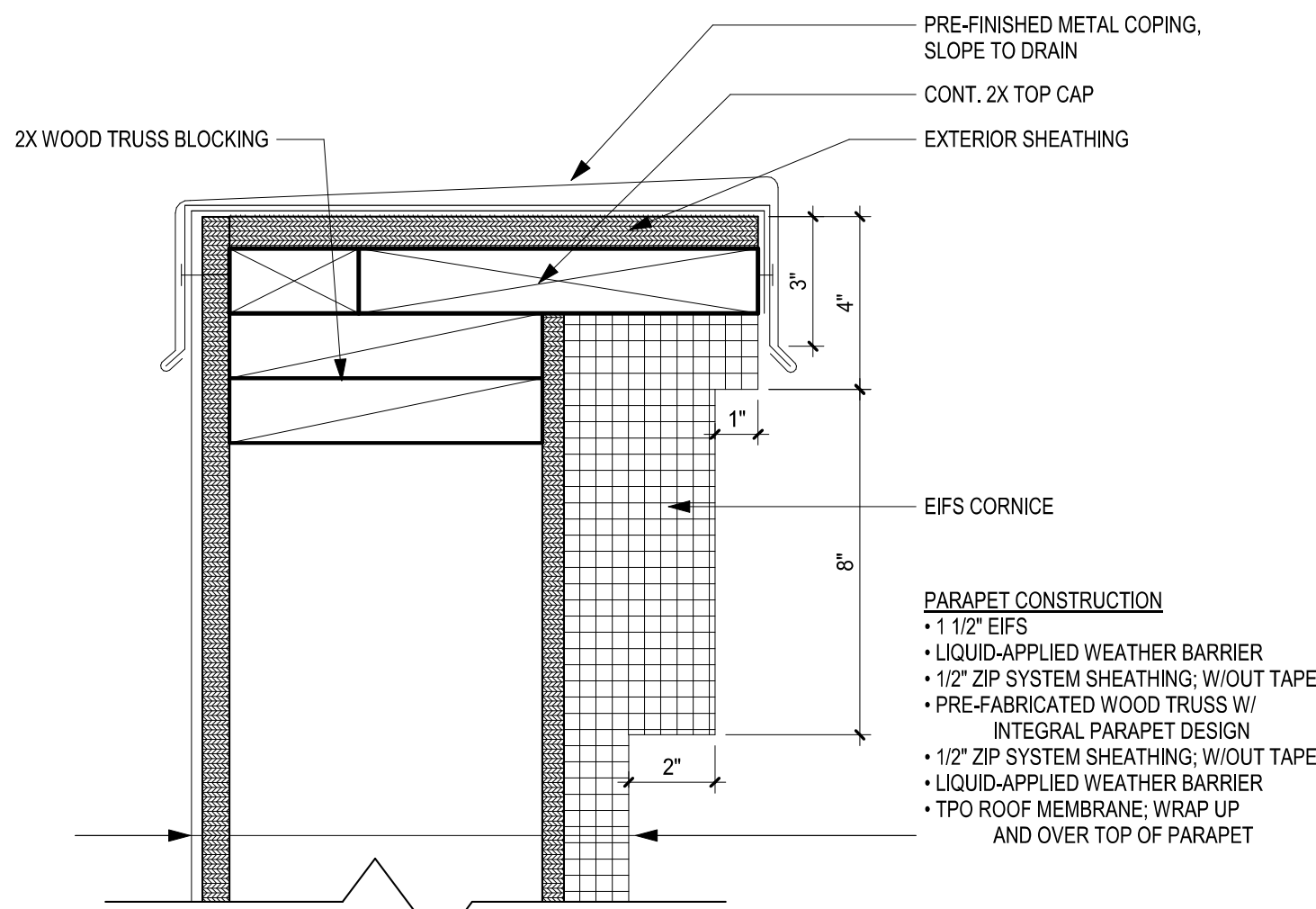
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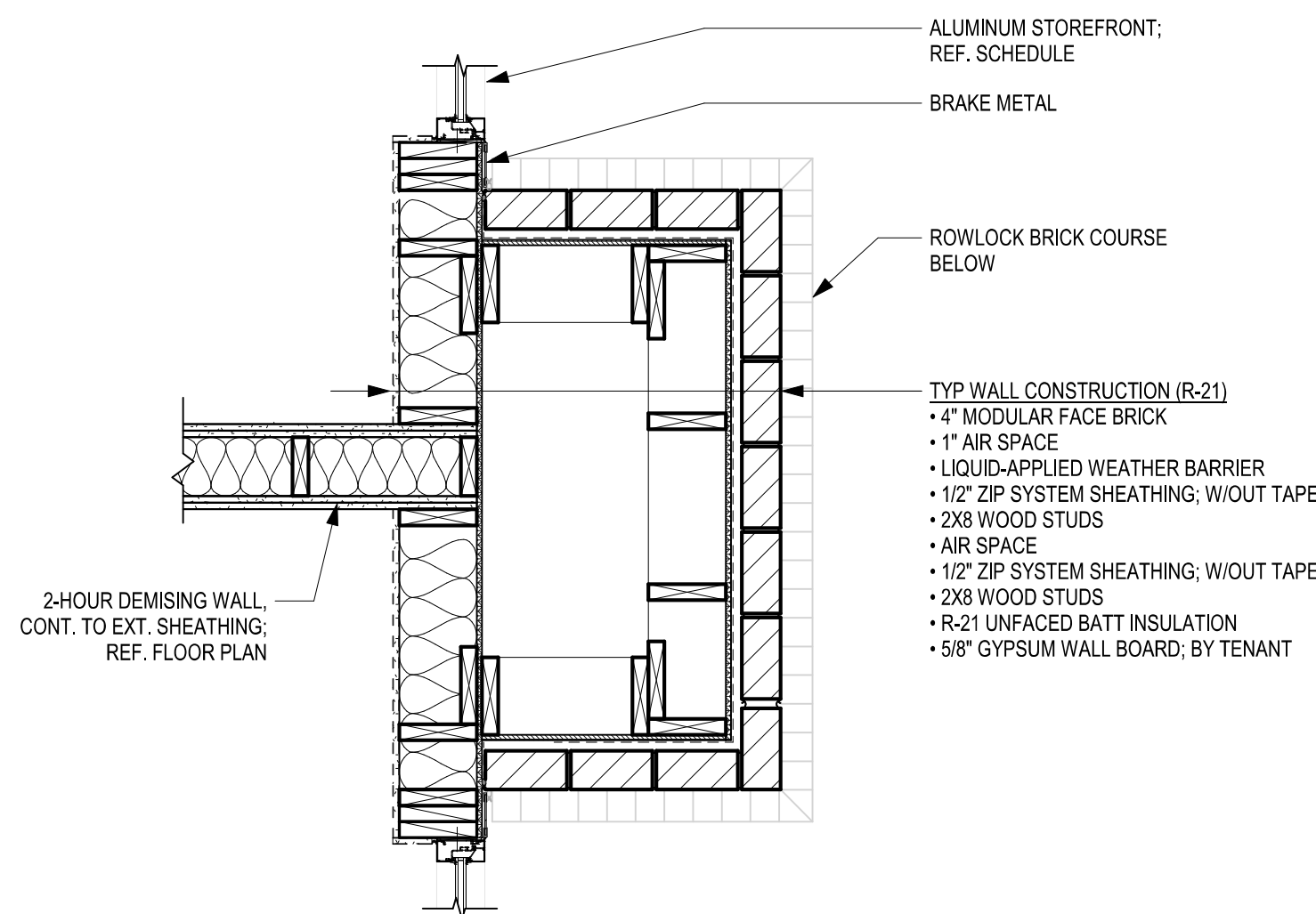
C1 PARAPET CAP AT WALL
SCALE: 1 1/2" = 1'-0"



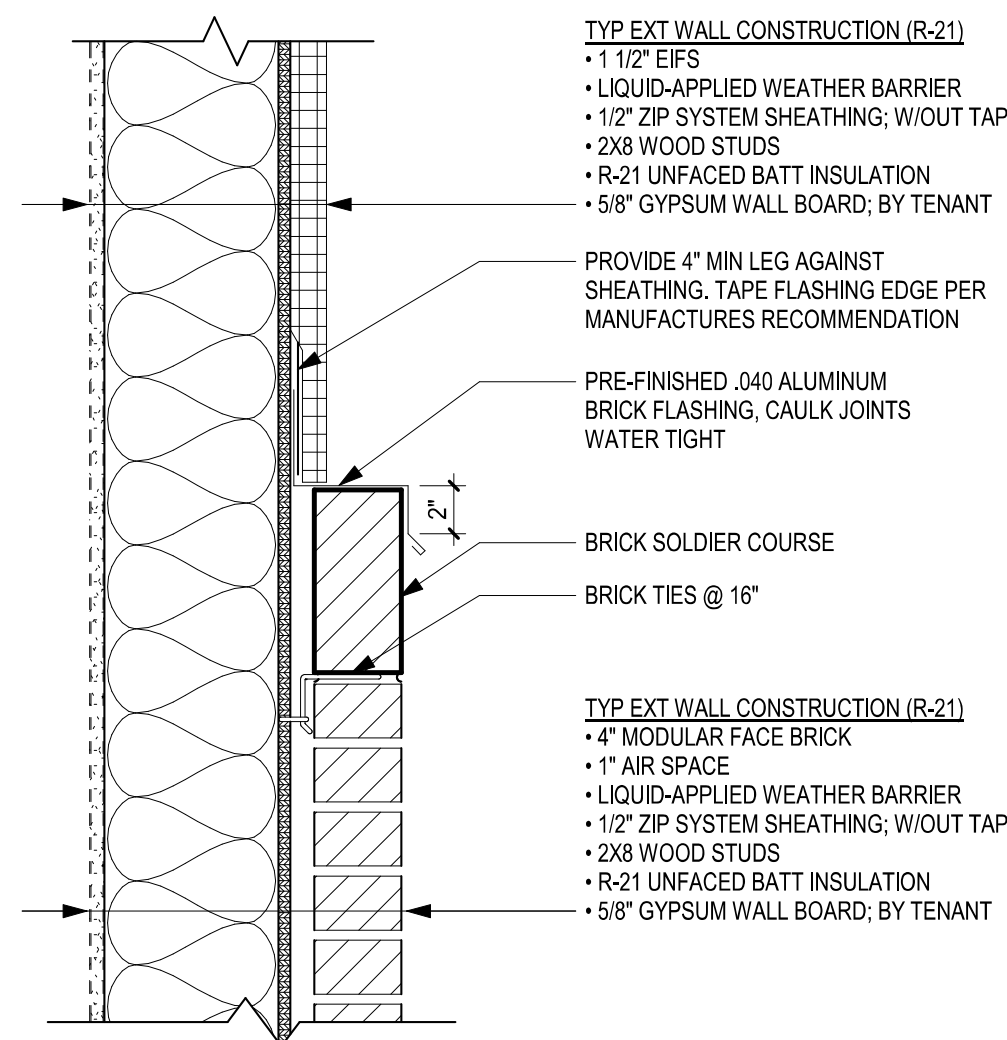
C3 PARAPET CAP AT PILASTER
SCALE: 1 1/2" = 1'-0"



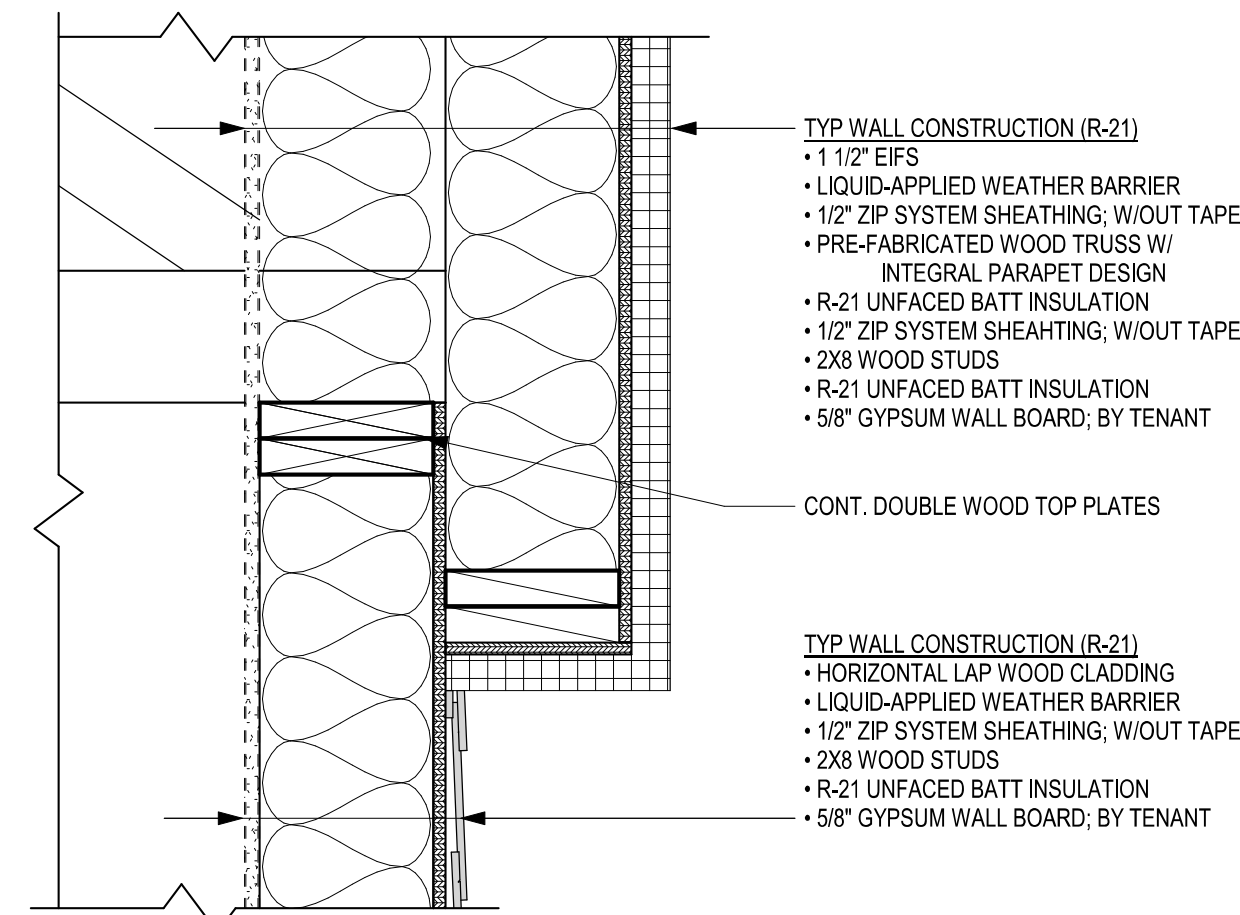
B1 PARAPET CAP
SCALE: 3" = 1'-0"



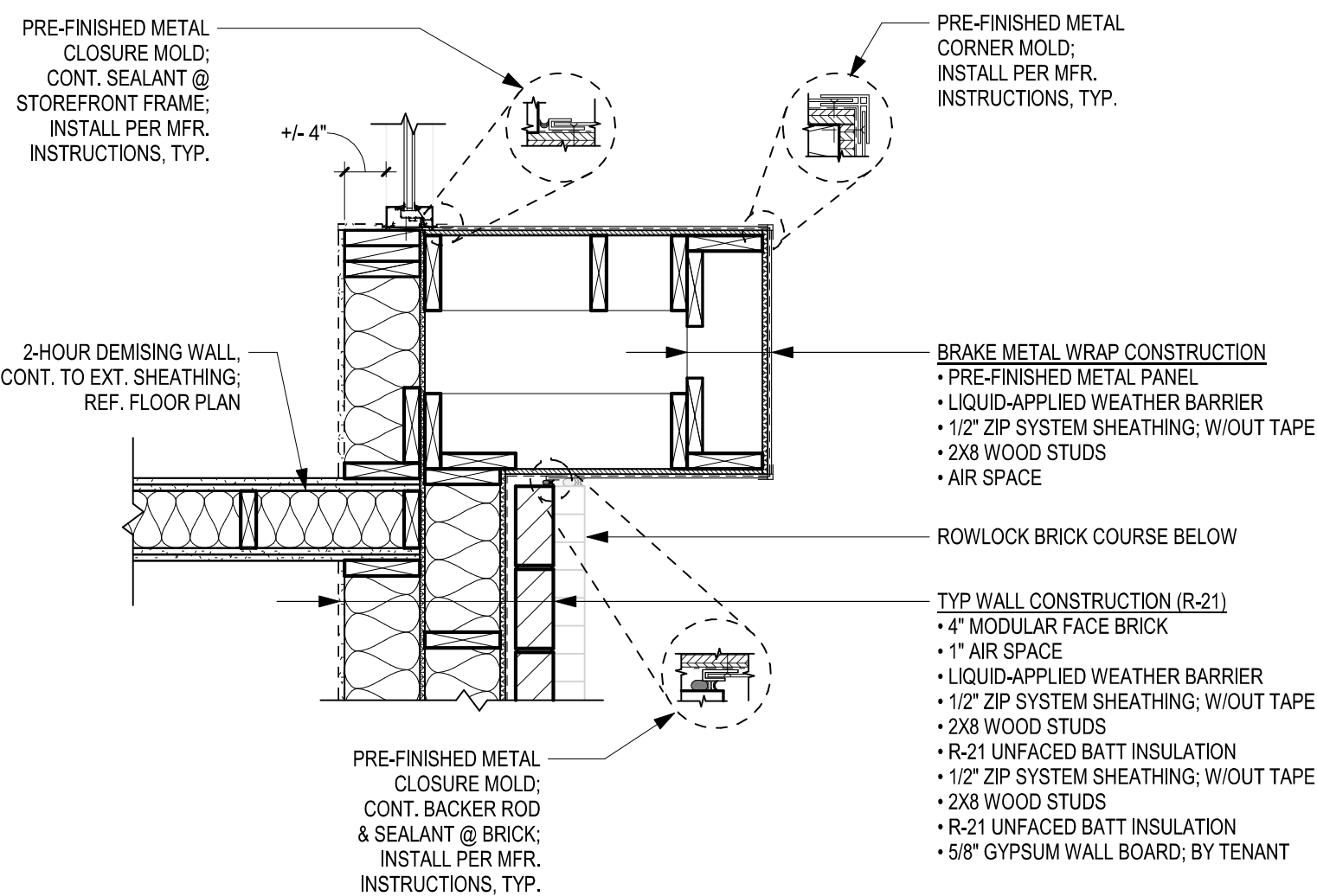
B2 PILASTER PLAN DETAIL
SCALE: 3/4" = 1'-0"



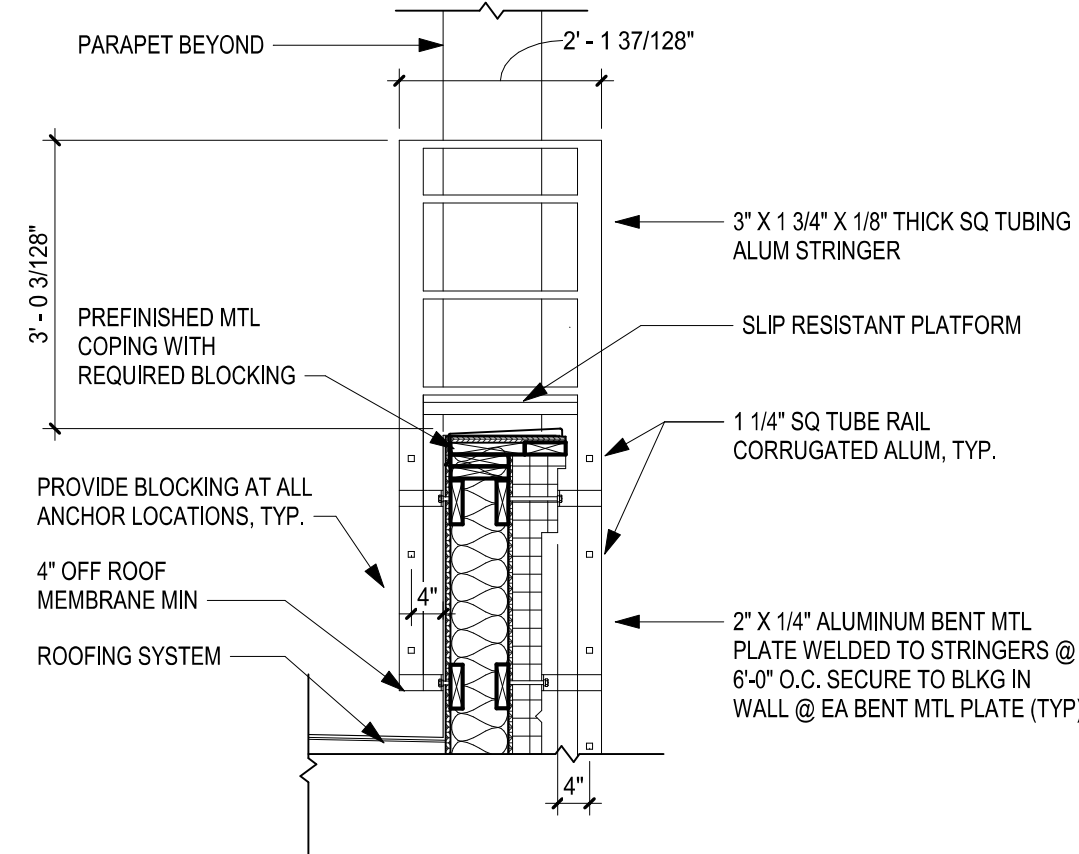
B3 EIFS / BRICK SECTION
SCALE: 1 1/2" = 1'-0"



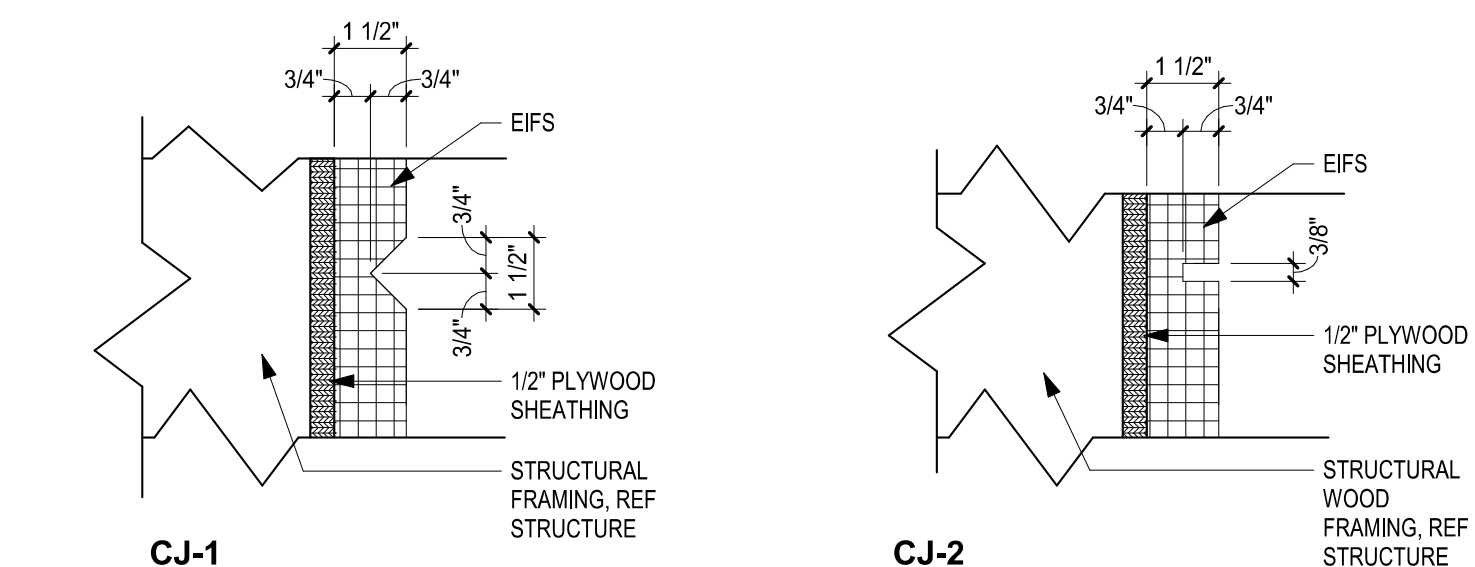
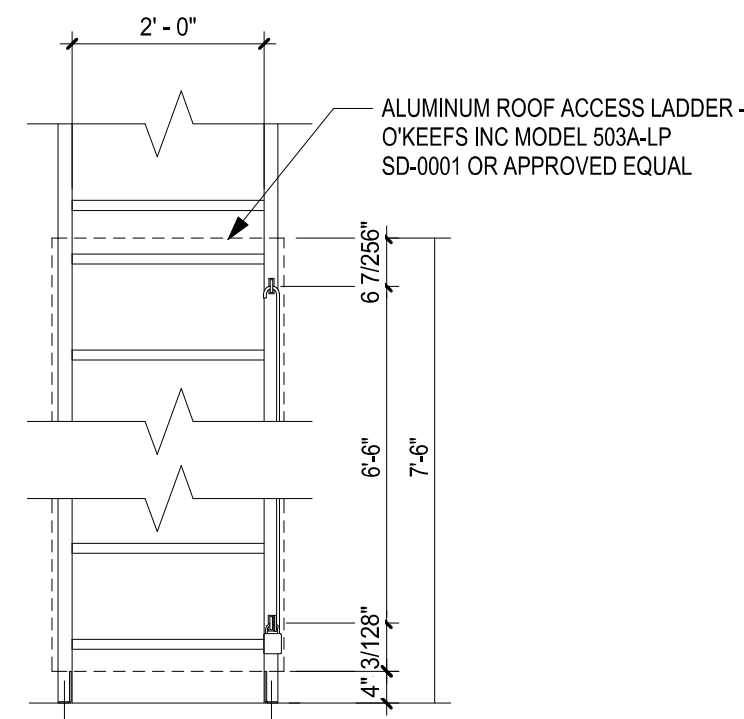
B4 DETAIL AT ENTRANCE SOFFIT
SCALE: 1 1/2" = 1'-0"



A1 PILASTER WALL PLAN DETAIL
SCALE: 3/4" = 1'-0"



A2 ROOF ACCESS LADDER
SCALE: 1/2" = 1'-0"



A4 EIFS REVEAL DETAILS
SCALE: 3" = 1'-0"

GENERAL FLASHING REQUIREMENTS

- PROPERLY WEEP FLASHING POINTS AND NORMAL DRAINAGE POINTS WITH WEEPS @ 1'-4" O.C. MAX. SPACING. WEEP POINTS ARE TO BE LOCATED DIRECTLY ON TOP OF FLASHING.
- WHERE FLASHING IS LOCATED TERMINATE AND/OR SEPARATES MATERIALS, DO NO SEAL (U.N.O.) - REFER TO DIAGRAM "C" WHERE IT IS DETERMINED BY THE MATERIAL MANUFACTURER OR OTHERWISE THAT SEALING IS REQUIRED (TO PREVENT WATER PENETRATION BEYOND FLASHING DUE TO WIND DRIVEN RAIN). THEN SEALANT MUST BE WEEPED IN ACCORDANCE WITH NOTE "A" ABOVE.
- UNLESS NOTED OTHERWISE, TURN FLASHING UP A MIN. OF 4" BEHIND APPROPRIATE MATERIALS.
- FLASHING CONDITIONS, WHETHER DETAILED OR NOT, ARE TO BE IN ACCORDANCE WITH S.M.A.C.N.A. SPECIFICATIONS. WHERE ATYPICAL CONDITIONS OCCUR THAT ARE NOT DETAILED, FLASHING IS TO BE INSTALLED AS CLOSELY AS POSSIBLE TO THE S.M.A.C.M.A. DETAIL THAT IS MOST CLOSELY APPROXIMATES THE ACTUAL CONDITION.
- UNLESS NOTED OTHERWISE, AT FLASHING HIGH POINTS SEAL WATER TIGHT TO BACK-UP SUBSTRATE.

NO SEALANT,
U.N.O.

DIAGRAM "C"
VINYL, WOOD, OR METAL



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CORE & SHELL BUILDING
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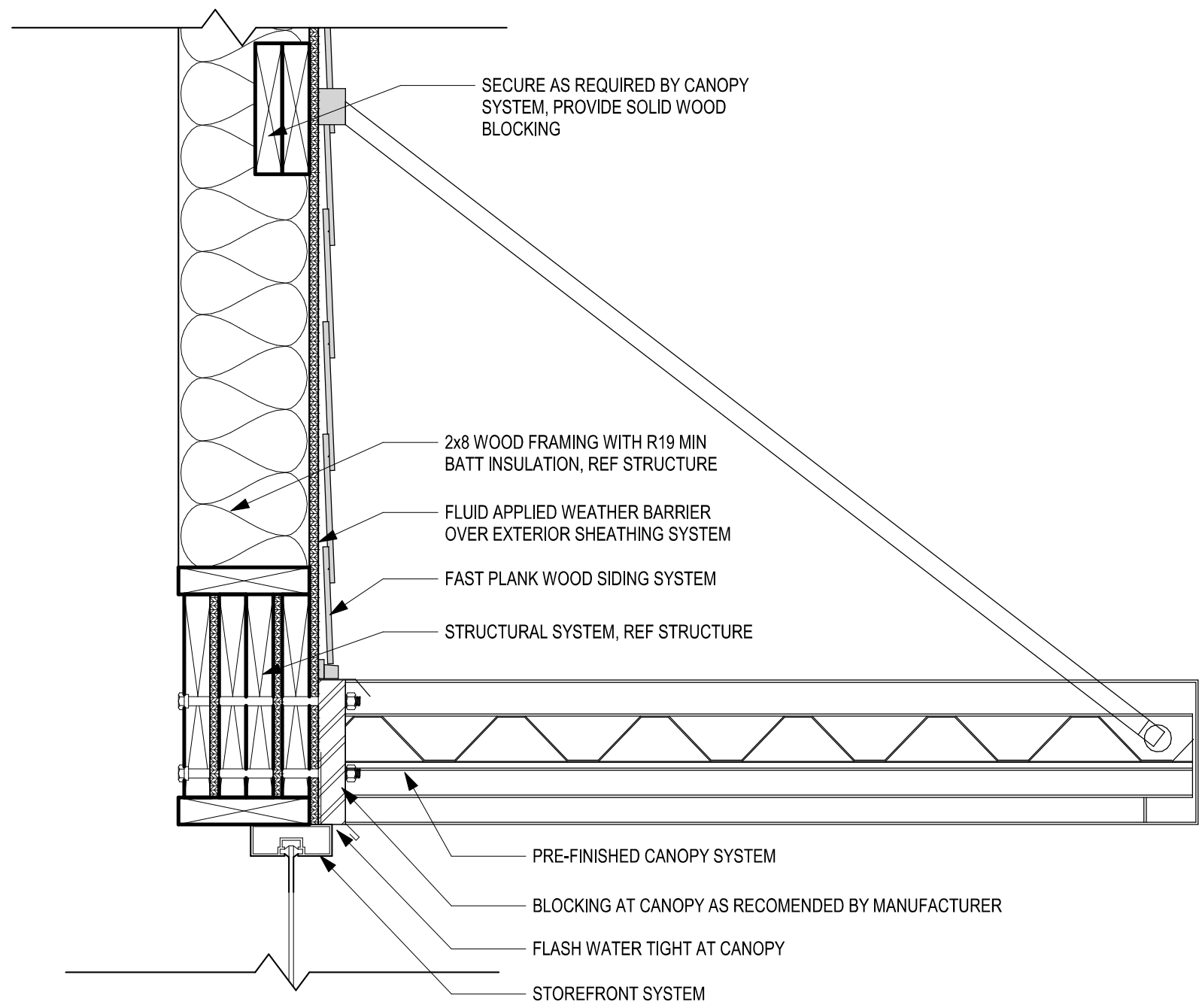
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BUILDING DETAILS

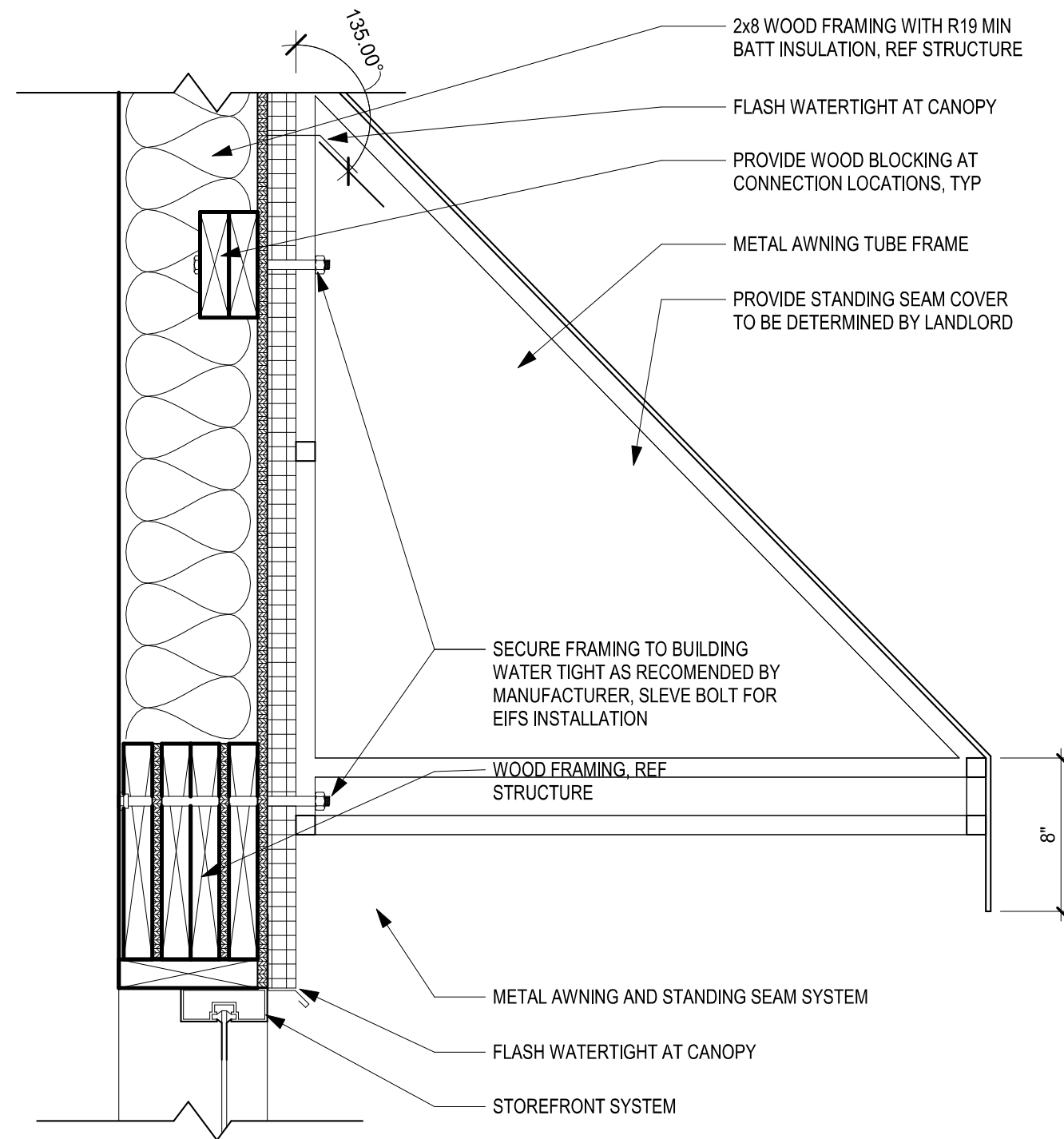
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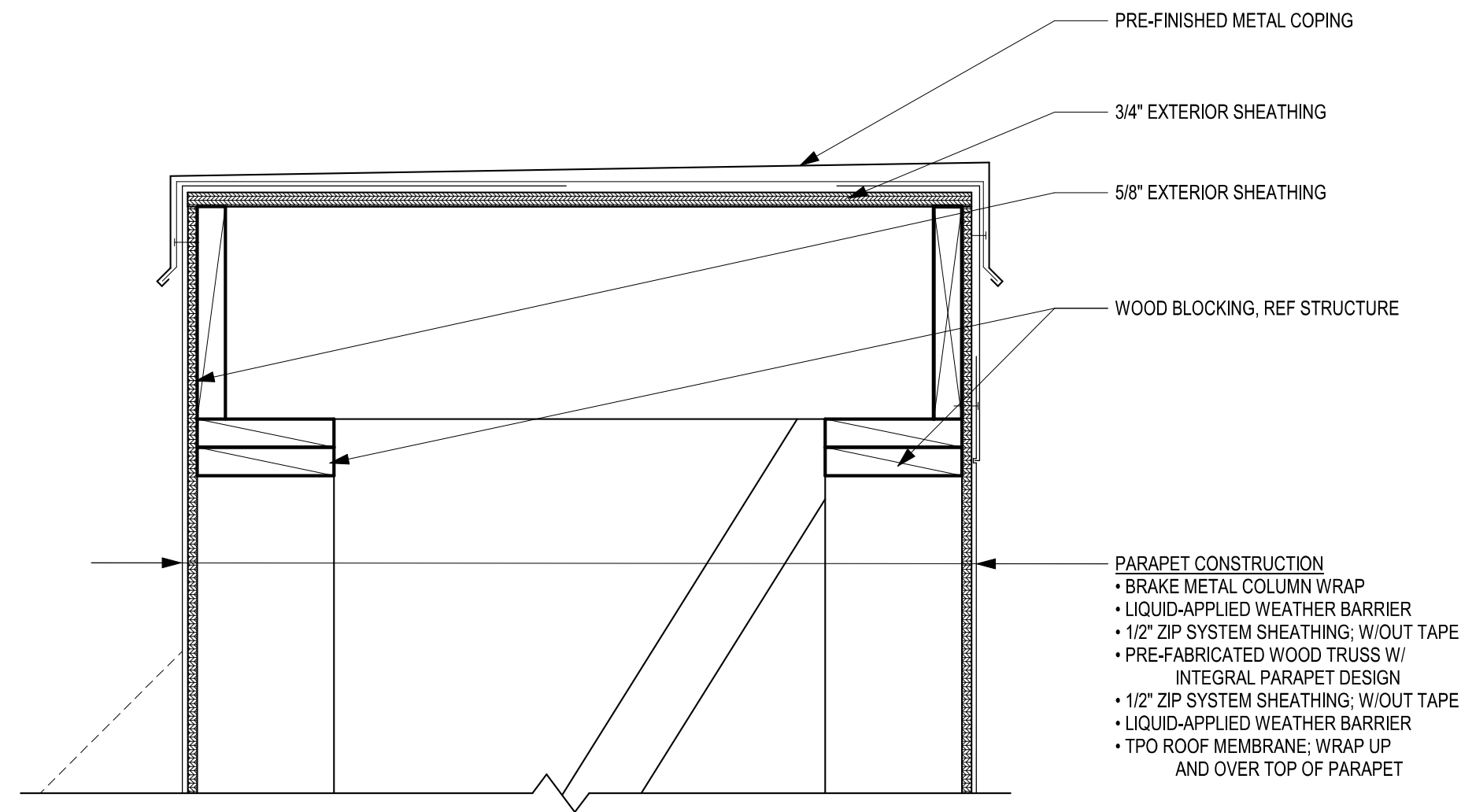
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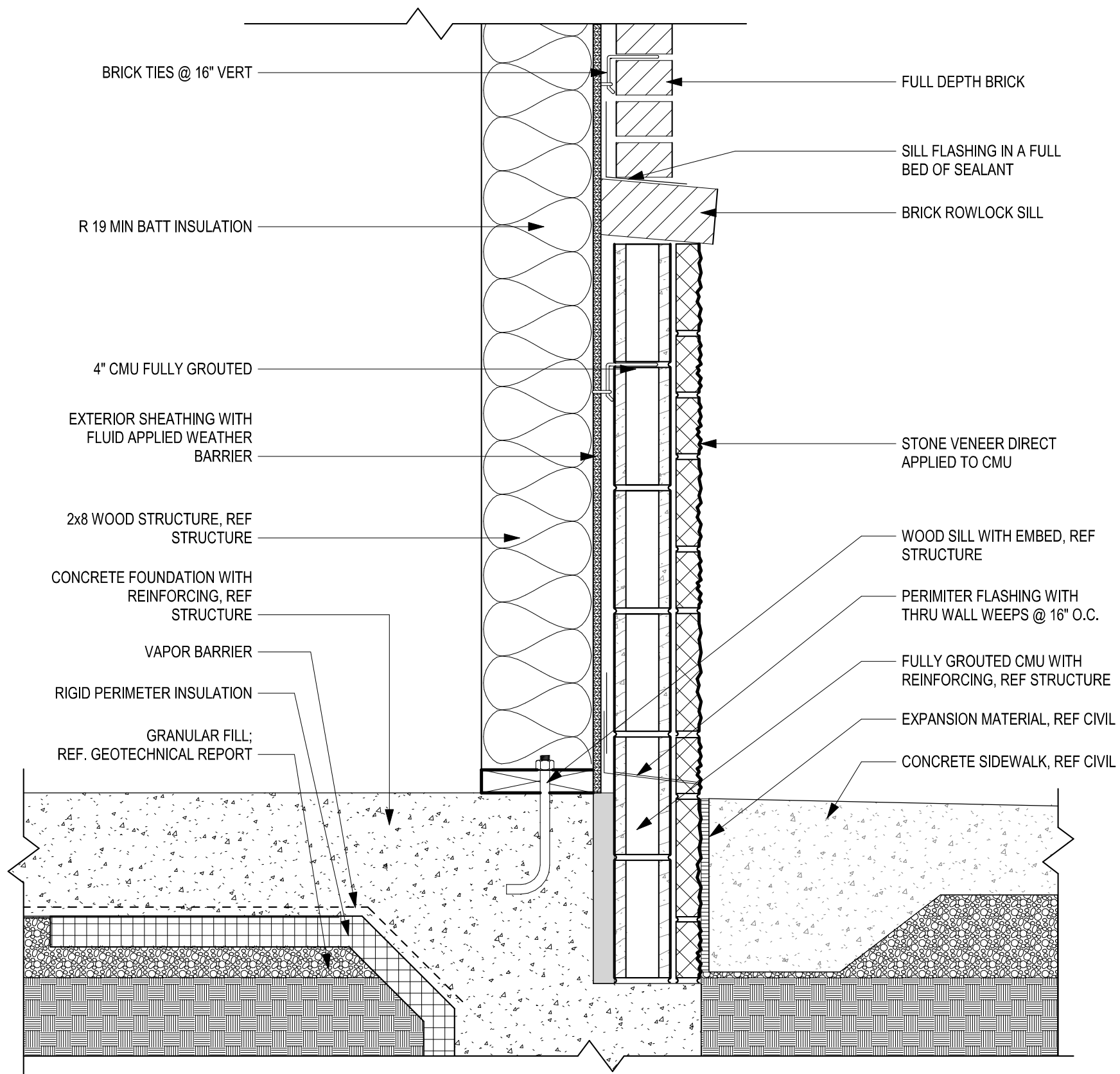
C1 CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"



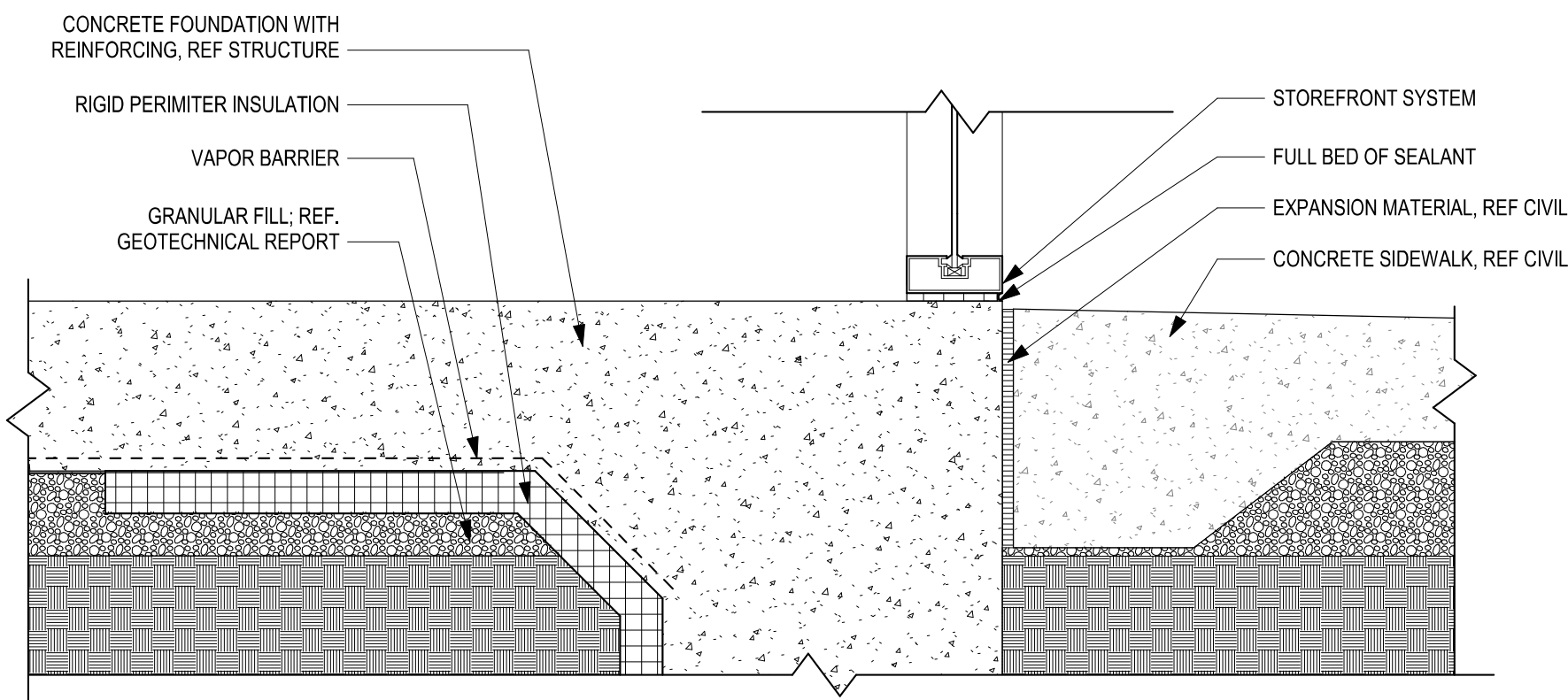
C3 AWNING DETAIL
SCALE: 1 1/2" = 1'-0"



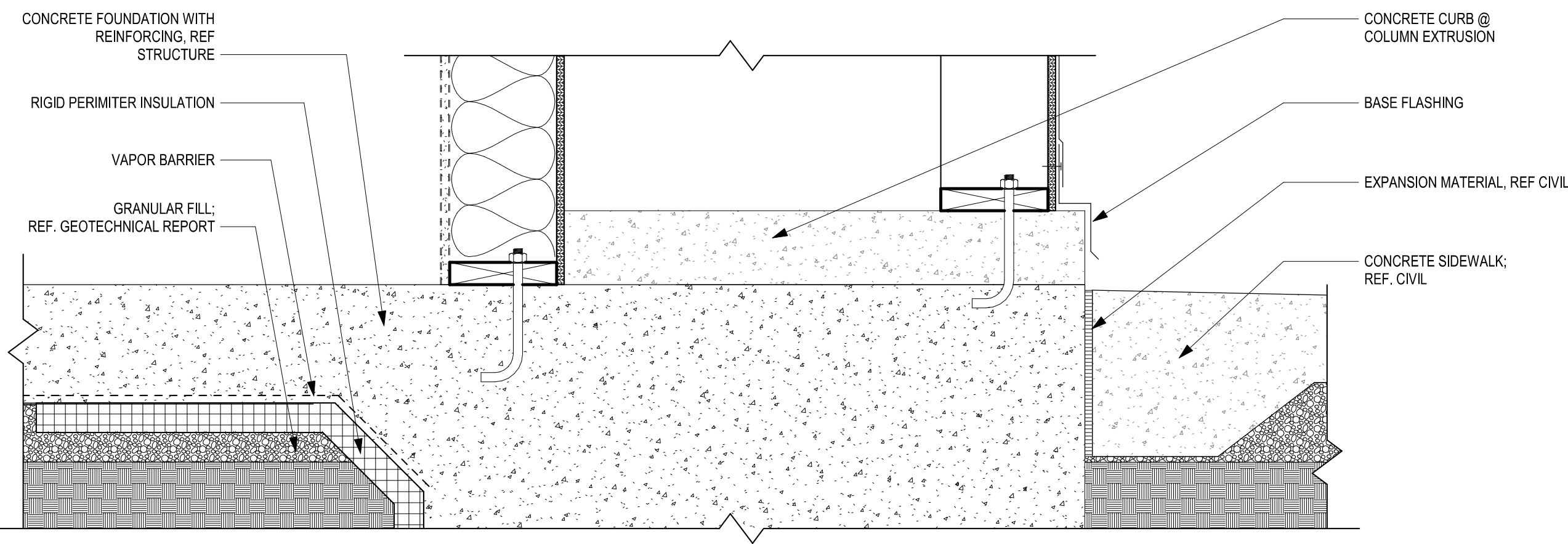
C4 PARAPET CAP AT EAST WALL PILASTER
SCALE: 1 1/2" = 1'-0"



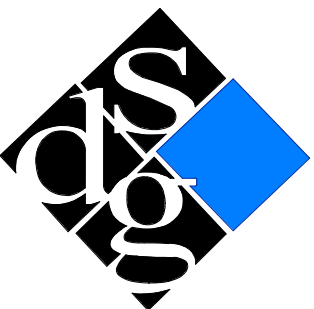
A1 STONE WALL BASE DETAIL
SCALE: 1 1/2" = 1'-0"



B3 STOREFRONT WALL BASE DETAIL
SCALE: 1 1/2" = 1'-0"



A3 EAST WALL PILASTER BASE DETAIL
SCALE: 1 1/2" = 1'-0"

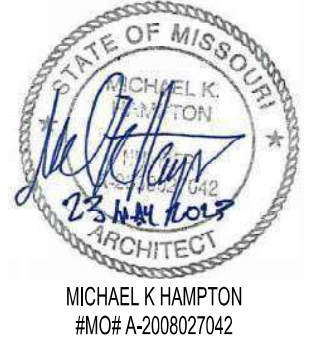


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CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5
LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES
PROGRESS PRINT ONLY

SHEET TITLE
BUILDING DETAILS

PROJECT NUMBER
230117

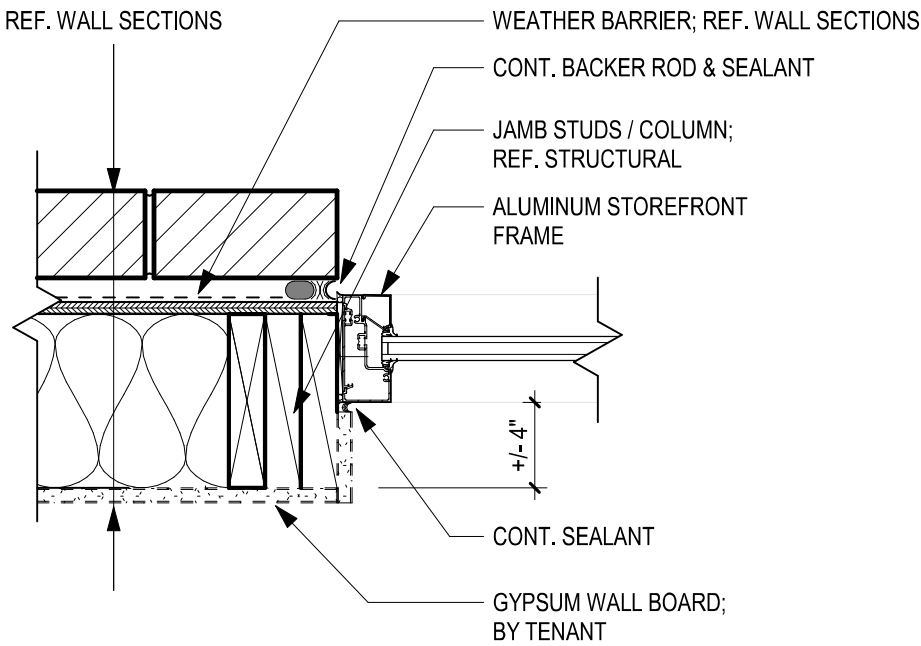
SHEET NUMBER
A-502

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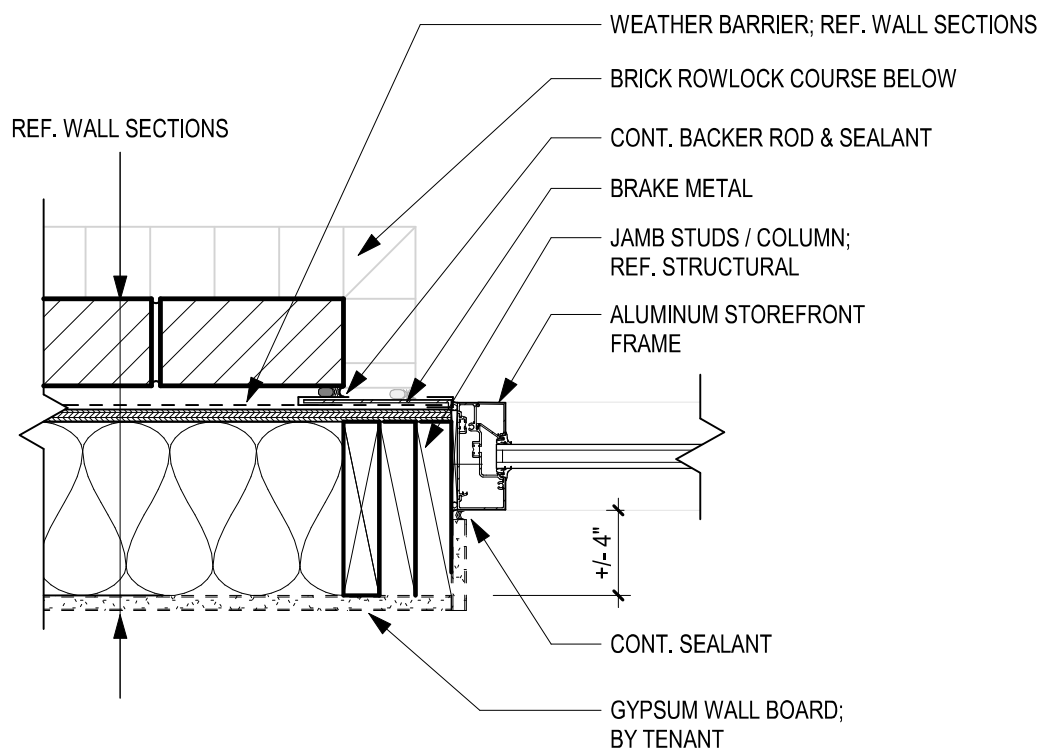
DOOR LEGEND
SG = SAFETY GLASS
ALUM = ALUMINUM
HM = HOLLOW METAL
PT = PAINT
T = TRANSPARENT FINISH
F = FACTORY FINISH

DOOR SCHEDULE

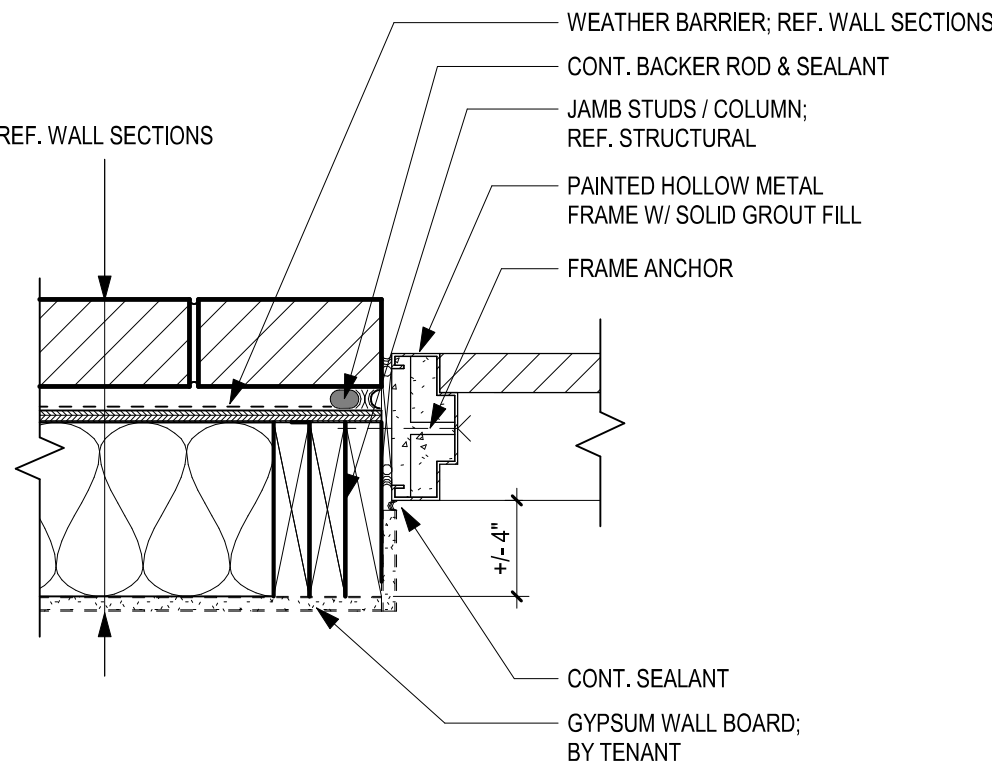
DOOR #	SIZE		DOOR				FRAME				DETAIL		HARDWARE	NOTES
			MATL	FINISH	GLAZ	EL	MATL	FINISH	GLAZ	EL	HEAD	JAMB		
A101	3'-0"	7'-0"	ALUM	F	T	2	ALUM	F	T	C	A2	B3	SET 01	
A102	3'-6"	7'-0"	HM	PT	---	1	HM	PT	---	A	A1	B1	SET 02	
B101	3'-0"	7'-0"	ALUM	F	T	2	ALUM	F	T	C	A2	B3	SET 01	
B102	3'-0"	7'-0"	HM	PT	---	1	HM	PT	---	A	A1	B1	SET 02	
C101	3'-0"	7'-0"	ALUM	F	T	2	ALUM	F	T	C	A2	B3	SET 01	
C102	3'-6"	7'-0"	HM	PT	---	1	HM	PT	---	A	A1	B1	SET 02	



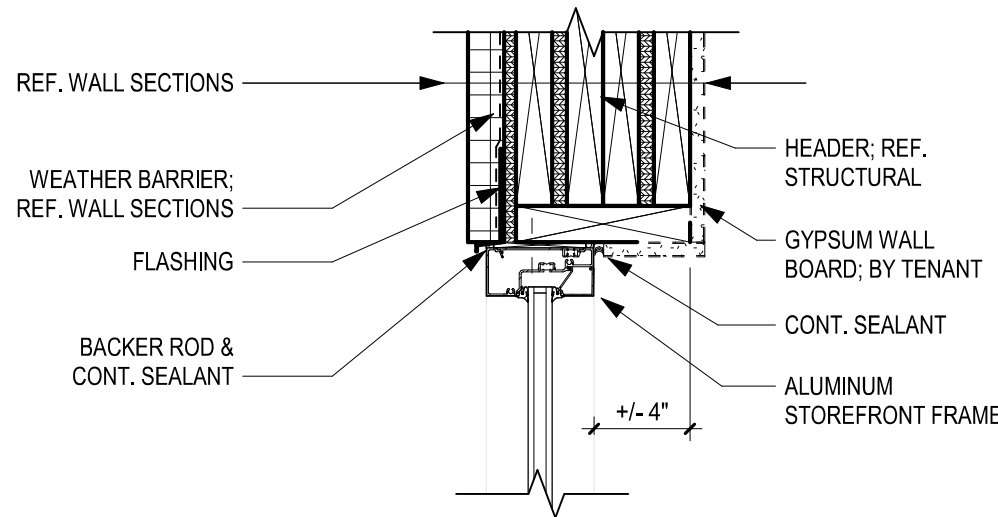
C3 STOREFRONT TYP JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



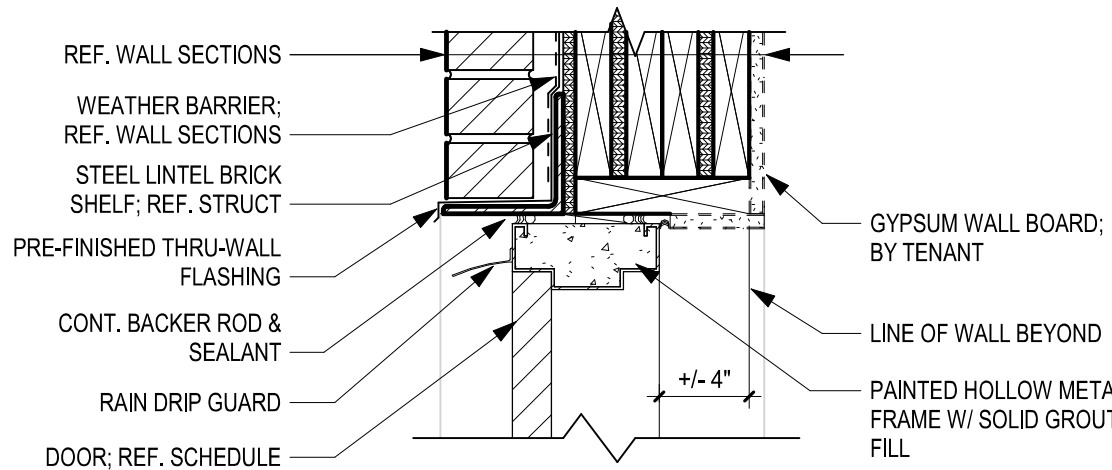
B2 STOREFRONT JAMB DETAIL @ BRAKE METAL
SCALE: 1 1/2" = 1'-0"



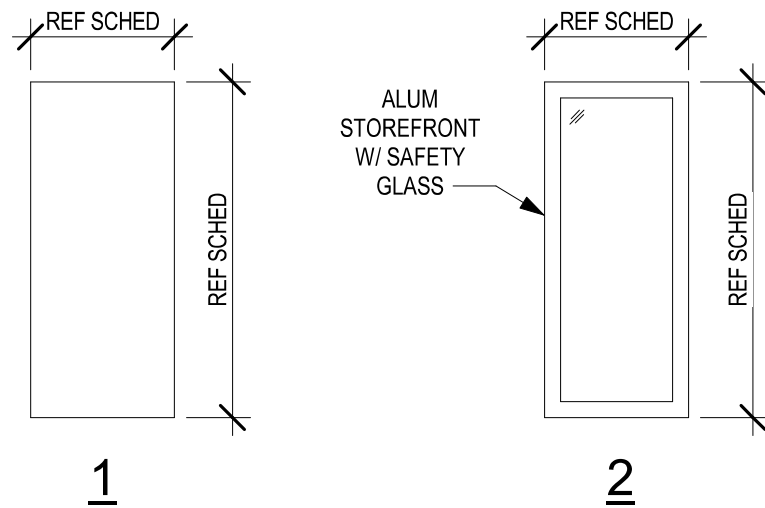
B3 HM JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



D4 STOREFRONT HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



C4 HM HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



B4 DOOR ELEVATIONS
SCALE: 1/4" = 1'-0"

DOOR HARDWARE SCHEDULE - SET 01 STOREFRONT

QTY.	DESCRIPTION	MODEL	FINISH	MFG.
3 PR.	HINGES	BB1191 4 1/2" x 4 1/2" NRP	US10B	HAGER
1 EA.	EXIT DEVICE	1692	DC13	FALCON
1 EA.	EXIT DEVICE	1690	DC13	FALCON
2 EA.	66" LADDER PULL	66LPBS	US26/626	CRL
2 EA.	CLOSER	SC70-18	DC13	FALCON
2 EA.	STOP	100S	DC13	FALCON
1 EA.	THRESHOLD	350	DKB	NGP
2 EA.	DOOR SWEEP	200NA	DKB	NGP
1 EA.	PERIMETER SEAL	160S	DKB	NGP
1 EA.	ASTRAGAL	672	DKB	NGP

DOOR HARDWARE SCHEDULE - SET 02 SERVICE DOOR

QTY.	DESCRIPTION	MODEL	FINISH	MFG.
1 EA.	ROTON HINGE SURFACE MOUNT	70-210HD-84	ALUM	ROTON
1 EA.	EXIT DEVICE RIM SURFACE MOUNT	4501-48-26D	26D/626	HAGER
1 EA.	CLOSER 5100 HOLD OPEN STOP	5100-HDHOS-ALUM	ALUM	HAGER
1 EA.	ARMOR PLATE 20"x40" S.S.	190S-20X40-32D	32D	HAGER
1 EA.	WEATHER STRIPPING NEOPRENE	873S-N-4284-MILL	ML	HAGER
1 EA.	DOOR BOTTOM SWEEP NEOPRENE	750SN-42-CLR	CL	HAGER
1 EA.	NGP STEEL SECURITY ASTRAGAL 83"	1392SP-4SP-83	PRIME COAT	NGP
1 EA.	HALF SADDLE THRESHOLD 5'x12"x42"	431S-42-MIL	MIL	HAGER
1 EA.	OVERHEAD RAIN DRIP GUARD	810S-46-MIL	AL	HAGER
1 EA.	WIDE ANGLE PEEP HOLE SET @ 45" AFF			

DOOR HARDWARE SCHEDULE - SET 03 STOREFRONT

QTY.	DESCRIPTION	MODEL	FINISH	MFG.
3 PR.	HINGES	BB1191 4 1/2" x 4 1/2" NRP	US10B	HAGER
1 EA.	EXIT DEVICE	1692	DC13	FALCON
1 EA.	66" LADDER PULL	66LPBS	US26/626	CRL
1 EA.	CLOSER	SC70-18	DC13	FALCON
1 EA.	STOP	100S	DC13	FALCON
1 EA.	THRESHOLD	350	DKB	NGP
1 EA.	DOOR SWEEP	200NA	DKB	NGP
1 EA.	PERIMETER SEAL	160S	DKB	NGP

B5 DOOR HARDWARE SCHEDULE
SCALE: NO SCALE

A1 FRAME ELEVATIONS
SCALE: 1/4" = 1'-0"



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STREETS OF WEST PRYOR LOT 5
2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES
PROGRESS PRINT ONLY
3 ASI-2 07-07-2023

SHEET TITLE
DOOR / FRAME SCHEDULE
& DETAILS

PROJECT NUMBER
230117

SHEET NUMBER
A-601

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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 INSPECTED 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 AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.

RISK CATEGORY: II

LIVE LOADS:
ROOF: 20 PSF

SNOW LOADS:
GROUND SNOW LOAD, Pg: 20 PSF
FLAT-ROOF SNOW LOAD, Pf: 20 PSF
SNOW EXPOSURE FACTOR, Ce: 1.0
SNOW LOAD IMPORTANCE FACTOR, Is: 1.0
THERMAL FACTOR, Ct: 1.0

WIND LOAD:
BASIC WIND SPEED: 115 MPH
EXPOSURE CATEGORY: C
BASIC INTERNAL PRESSURE COEFFICIENT, Gcpi: ±0.18
BASIC COMPONENTS AND CLADDING PRESSURE (ADJUSTED TO COMPLY WITH BUILDING CODE):
±20 PSF @ INTERIOR ZONES
±25 PSF @ END ZONES

SEISMIC LOAD:
SEISMIC IMPORTANCE FACTOR, Ie: 1.0
SPECTRAL RESPONSE ACCELERATIONS:
Ss: 0.1274
S1: 0.0612

SPECTRAL RESPONSE COEFFICIENTS:
Sds: 0.102
sd1: 0.069

SITE CLASS: C
SEISMIC DESIGN CATEGORY: B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT-FRAMED WALLS WITH WOOD STRUCTURAL PANELS & STEEL ORDINARY MOMENT FRAMES
DESIGN BASE SHEAR: Cs x W
SEISMIC RESPONSE COEFFICIENTS, Cs: 0.0157 & 0.0291
RESPONSE MODIFICATION FACTOR, R: 6.5 & 3.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

FOUNDATION AND EARTHWORK NOTES:

REFER TO THE GEOTECHNICAL EXPLORATION AND FOUNDATION RECOMMENDATIONS: WEST PRYOR VILLAGE, LEE'S SUMMIT, MISSOURI / COOK, FLATT, & STROBEL ENGINEERS PA, KASNAS CITY, KANSAS (CFS NO 19-5125) / JUNE 15, 2018

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 2,500 PSF FOR CONTINUOUS FOOTINGS AND 3,000 PSF FOR ISOLATED SPREAD FOOTINGS. FOUNDATIONS SHALL BEAR DIRECTLY ON A 24-INCH THICK, GEOGRID REINFORCED AGGREGATE PAD (GRAP) DESIGNED AND CONSTRUCTED AS OUTLINED IN THE GEOTECHNICAL REPORT, SECTION 7.2.

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.

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.

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	3,000 PSI
FOOTINGS	0.45	4,500 PSI
FOUNDATION WALLS	0.45	4,500 PSI
GRADE BEAMS	0.45	4,500 PSI
DRILLED PIERS	0.50	4,000 PSI
CONCRETE ON STEEL DECK	0.45	3,000 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.

MINIMUM TENSION LAP SPlice 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 KEYED (1 1/2" DEEP BY 1/3 MEMBER AREA) AND REINFORCING SHALL CONTINUE THROUGH JOINT OR BE TENSION LAP SPliced. 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 FF25/FL20 TOLERANCE.

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

STRUCTURAL STEEL ENCASED WITHIN CONCRETE SHALL COMPLY WITH AISC TOLERANCES.

MASONRY NOTES:

CONSTRUCT MASONRY IN ACCORDANCE WITH THE IBC. MASONRY REQUIRES LEVEL 1 QUALITY ASSURANCE (RE: SPECS). ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND USING THE LOW-LIFT METHOD OF GROUTING. REFER ARCHITECTURAL PLAN FOR ALL BLOCK COURSING.

MASONRY DESIGN IS BASED ON A MINIMUM COMPRESSIVE STRENGTH (F'm) OF ASSEMBLY OF 1,500 PSI.

MASONRY UNITS SHALL MEET THE REQUIREMENTS OF ASTM C-90, GRADE N, WITH A NET AREA COMPRESSIVE STRENGTH OF 1,900 PSI.

MORTAR SHALL BE PREPARED IN ACCORDANCE WITH ASTM C-270. PROVIDE TYPE M MORTAR AT ALL MASONRY BELOW GRADE AND TYPE S AT ALL OTHER MASONRY.

GROUT SHALL BE PREPARED IN ACCORDANCE WITH ASTM C-476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.

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

LAP SPlice BAR REINFORCEMENT FOR MASONRY PER LAP SCHEDULE AND JOINT REINFORCEMENT A MINIMUM OF 6 INCHES.

CONCRETE MASONRY UNITS BELOW GRADE SHALL BE SOLID GROUTED.

CELLS WITH REINFORCING SHALL BE SOLID GROUTED AND VIBRATED.

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, L): 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 UNO. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES WITH THE APPROPRIATE BOLT PROJECTION, 4" MINIMUM UNO. 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 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 SPICES 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.

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 DOUGLAS-FIR #2 AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY.

ROOF SHEATHING SHALL BE 5/8" (19/32" MIN) PLYWOOD WITH A SPAN RATING OF AT LEAST 32/16. PANELS SHALL BE NAILED WITH 10d 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.

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.

WALL SHEATHING SHALL BE 1/2" OSB ON THE EXTERIOR FACE OF ALL EXTERIOR WALLS. PANELS SHALL BE NAILED WITH 10d GALVANIZED NAILS AT 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ALL PANEL EDGES SHALL BE BLOCKED.

INSTALL ALL 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.

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.

SPlice & DEVELOPMENT LENGTHS FOR REINFORCEMENT

(UNLESS NOTED OTHERWISE ON THE DRAWINGS)

fy = 60,000 psi
f'c = 3,000 psi

BAR SIZE	LENGTH OF LAPPED SPICES FOR REINFORCEMENT (INCHES)		LENGTH OF END ANCHORAGE FOR DEVELOPMENT OF REINFORCEMENT (INCHES)			HOOK LENGTH	BAR SIZE
	TOP BARS*	OTHERS	TOP BARS*	OTHERS	HOOKED BARS		
3	28	22	22	17	9	6	3
4	38	29	29	22	11	8	4
5	47	36	36	28	14	10	5
6	56	43	43	33	17	12	6
7	81	63	63	48	20	14	7
8	93	72	72	55	22	16	8
9	105	81	81	62	25	20	9
10	118	91	91	70	28	22	10
11	131	101	101	78	31	24	11
14	--	--	121	93	38	31	14
18	--	--	161	124	50	41	18

*TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TO BE CONSIDERED AS TOP BARS. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS.

UNLESS EITHER OF THE FOLLOWING TWO CASES EXIST FOR STRAIGHT BARS, THE DEVELOPMENT OR SPlice LENGTH FOR STRAIGHT BARS IN THE ABOVE TABLE MUST BE MULTIPLIED BY 1.5:

I. THE CLEAR SPACING OF BARS BEING DEVELOPED OR SPliced IS GREATER THAN OR EQUAL TO ONE BAR DIAMETER, THE CLEAR COVER IS GREATER THAN OR EQUAL TO ONE BAR DIAMETER, AND STIRRUPS OR TIES PROVIDED THROUGHOUT THE DEVELOPMENT OR SPlice LENGTH MEET OR EXCEED THE CODE MINIMUM.

II. THE CLEAR SPACING OF BARS BEING DEVELOPED OR SPliced IS GREATER THAN OR EQUAL TO TWO BAR DIAMETERS AND THE CLEAR COVER IS GREATER THAN OR EQUAL TO ONE BAR DIAMETER.

THE DEVELOPMENT LENGTH FOR HOOKED BARS, SIZE 11 AND SMALLER, PLACED WITH SIDE COVER GREATER THAN OR EQUAL TO 2 1/2" AND COVER ON THE BAR EXTENSION BEYOND THE HOOD (90° HOOK ONLY) GREATER THAN OR EQUAL TO 2", MAY BE MULTIPLIED BY 0.7.

VALUES IN THE ABOVE TABLE ARE NOT TO BE USED FOR EPOXY COATED REINFORCING AND/OR REINFORCING PLACED IN CONCRETE CONTAINING LIGHTWEIGHT AGGREGATE.

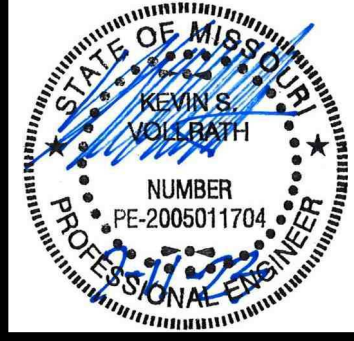
CONCRETE COVER FOR REINFORCEMENT

(UNLESS NOTED OTHERWISE ON THE DRAWINGS)

LOCATION	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER #5 AND SMALLER	2" 1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: SLABS, WALLS, AND JOISTS: #14 AND LARGER #11 AND SMALLER BEAMS AND COLUMNS	1 1/2" 3/4" 1 1/2"

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CORE & SHELL BUILDING FOR
STREETS OF WEST PRYOR LOT 5
LEE'S SUMMIT, MISSOURI

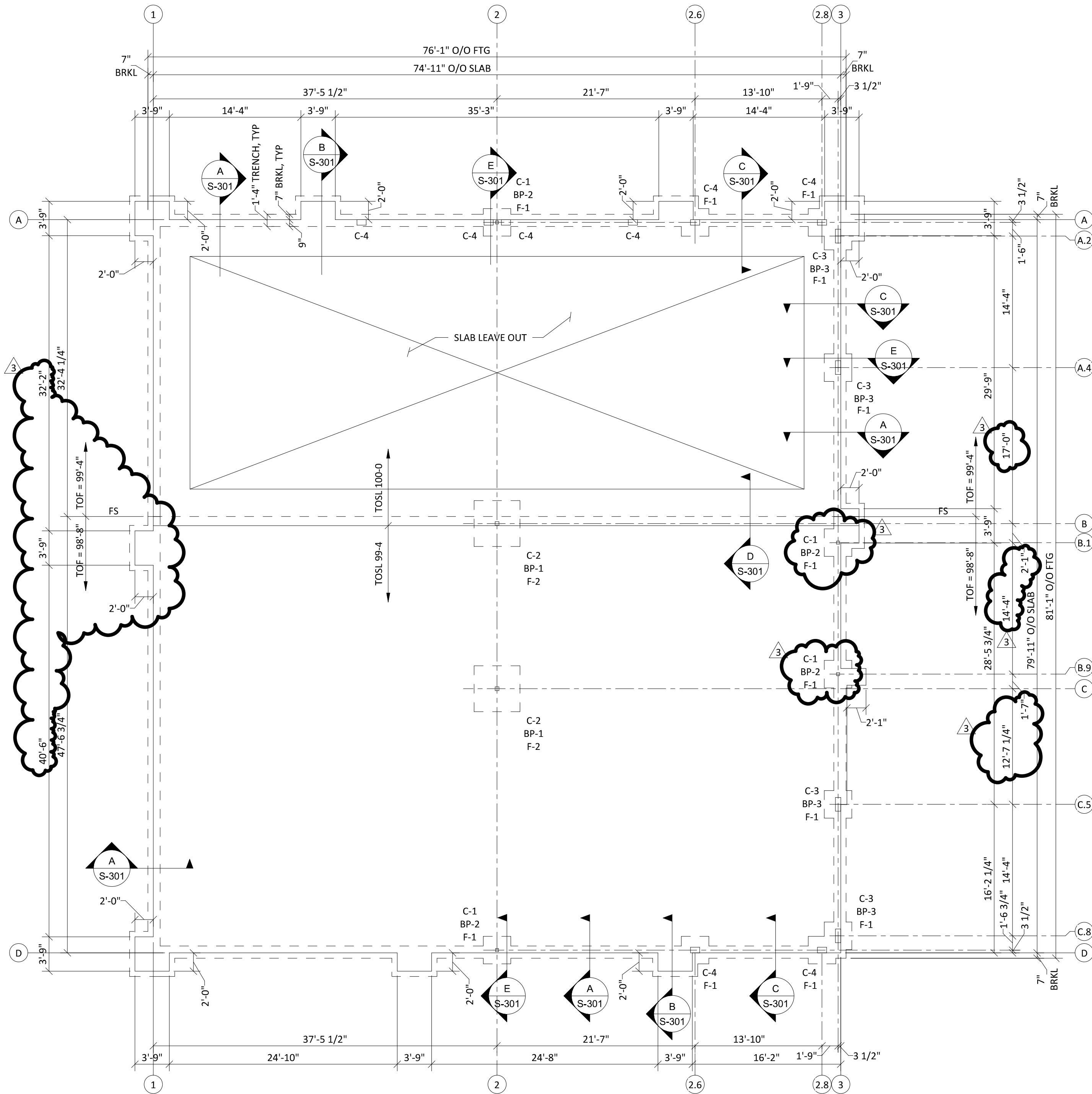
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2023-05-23	
ASI #2	07/07/2023

SHEET TITLE GENERAL NOTES

PROJECT NUMBER 230117

SHEET NUMBER S-001

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FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

FLOOR CONSTRUCTION: 4" CONCRETE SLAB ON GRADE REINFORCE w/6X6 - W2.9XW2.9 WELDED WIRE FABRIC. LOCATE REINFORCING 1 1/2" BELOW TOP OF SLAB. PROVIDE 6" LAYER OF GRANULAR LEVELING COURSE (#57 STONE) BELOW SLAB. VAPOR BARRIER SHALL BE PLACED DIRECTLY OVER GRANULAR FILL AND UNDER SLAB. REFERENCE ARCHITECTURAL AND SPECIFICATIONS FOR FURTHER DETAILS.

THE BUILDING FLOOR SLAB SHALL BE WITHIN A FLATNESS TOLERANCE OF 1/4" PER 10'-0".

TOSL - TOP OF SLAB ELEVATION: 100-0 = SITE ELEVATION: 984.25, 99-4 = SITE ELEVATION 983.58

TOF - TOP OF FOOTING ELEVATION: 98-8 OR 99-4, RE: PLAN

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

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.

ISOLATED FOOTING

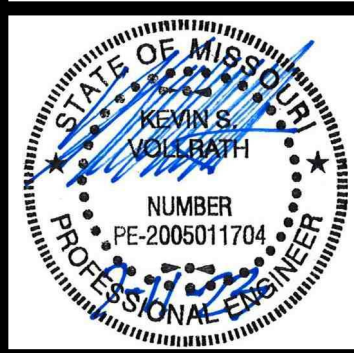
MARK	SIZE (LxWxD)	REINFORCING
F-1	3'-0x3'-0x3'-0	(4) #5 EW
F-2	5'-0x5'-0x1'-4	(6) #5 EW

COLUMN SCHEDULE

MARK	SIZE
C-1	HSS4x4x1/4
C-2	HSS5x5x1/4
C-3	DBL HSS9x7x3/8
C-4	(7) 2X8

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**CORE & SHELL BUILDING FOR
STREETS OF WEST PRYOR LOT 5**
LEE'S SUMMIT, MISSOURI

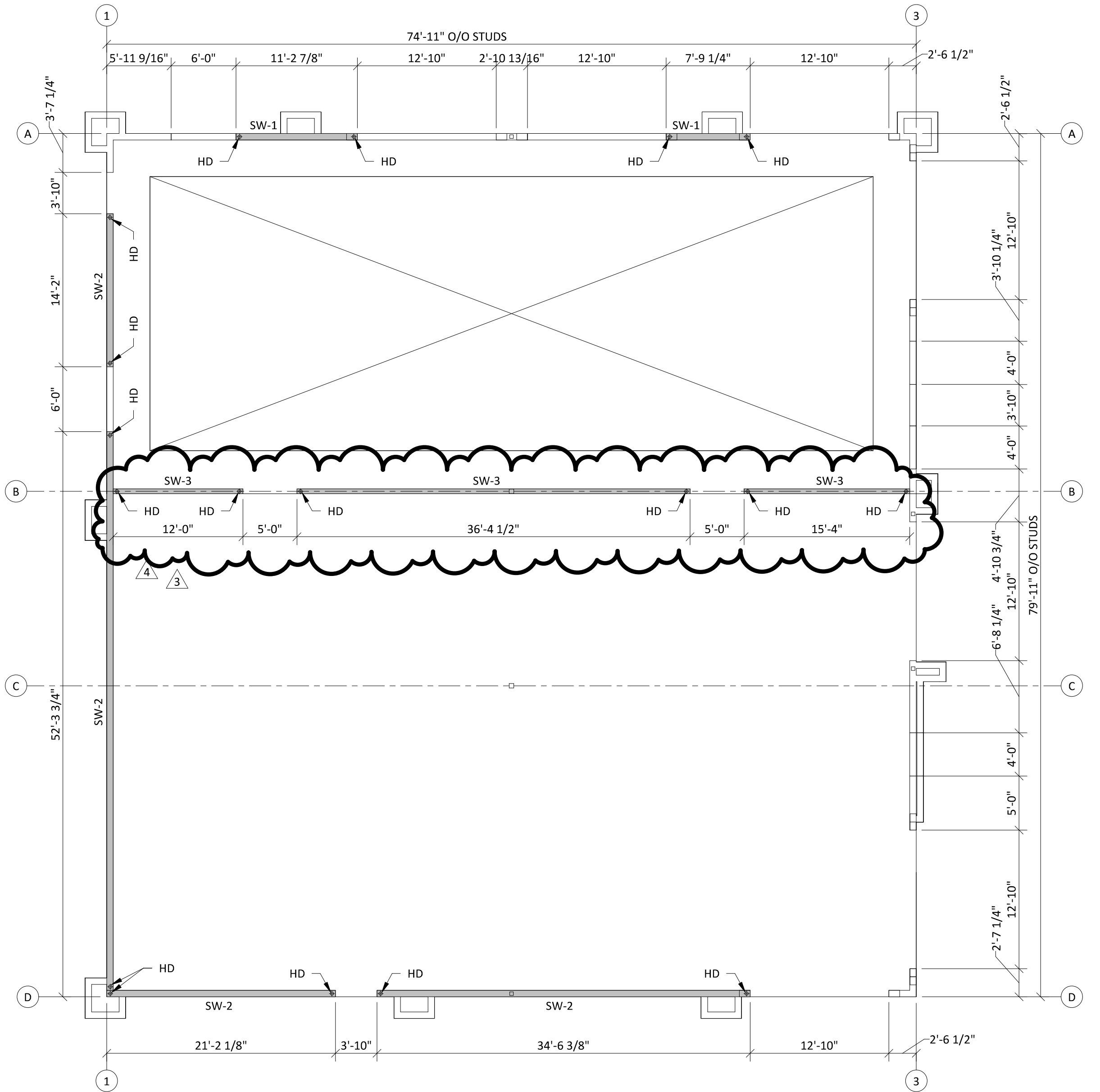
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2023-05-23
ASI #2 07/07/2023

SHEET TITLE
FOUNDATION PLAN

PROJECT NUMBER
230117

SHEET NUMBER
S-101

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WALL FRAMING PLAN

SCALE: 1/8" = 1'-0"

WALL CONSTRUCTION: TYPICAL EXTERIOR WALL CONSTRUCTION SHALL BE 2x8 WOOD STUDS @ 16" MAXIMUM ON CENTER. MINIMUM (2) TRIMMER STUDS AND (2) KING STUDS SHALL BE PROVIDED AT ALL OPENINGS IN EXTERIOR, BEARING, AND SHEAR WALLS. TYPICAL INTERIOR SHEAR WALL CONSTRUCTION SHALL BE 2x6 WOOD STUDS @16 ON CENTER. REFERENCE HEADER SCHEDULE FOR CONDITIONS REQUIRING ADDITIONAL STUDS. DOUBLE TOP PLATE SHALL BE CONTINUOUS AND SHALL BE SPLICED PER TYPICAL DETAIL. SEE SHEAR WALL SCHEDULE FOR FURTHER INFORMATION ON CONSTRUCTION OF SHEAR WALLS.

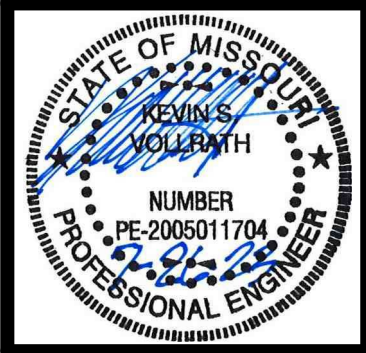
VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

NOTE: FACE OF STUD ALIGNS WITH THE CONCRETE SLAB EDGE FOR ALL EXTERIOR WALLS. ALL PLAN DIMENSIONS TO EXTERIOR WALLS ARE TO FACE OF STUD/FACE OF CONCRETE SLAB. ALL DIMENSIONS TO INTERIOR WALLS ARE TO FACE OF STUD/STRUCTURAL WALL.

WOOD SHEARWALL (SW) SCHEDULE							
MARK	STUD SIZE & SPACING	SHEATHING MATERIAL	EDGE NAILING	FIELD NAILING	COMPRESSION CHORD (MIN)	HOLDOWN	SILL PLATE ANCHOR BOLT AT FDN
SW-1	2x8@16	1/2" OSB ZIP SYSTEM PANELS BLOCKED ONE SIDE OF WALL	8d COMMON @4" OC	8d COMMON @12" OC	(3) 2x8 WD STUDS	HDU8-SD2.5 7/8"Ø AB	5/8"Ø AB AT 1'-4" OR 3/4"Ø AB AT 2'-0" OC
SW-2	2x8@16	1/2" OSB ZIP SYSTEM PANELS BLOCKED ONE SIDE OF WALL	8d COMMON @6" OC	8d COMMON @12" OC	(2) 2x8 WD STUDS	HDU4-SD2.5 5/8"Ø AB	5/8"Ø AB AT 2'-0" OR 3/4"Ø AB AT 2'-8" OC
SW-3	2x6@16	1/2" (MIN) GYPSUM BOARD BLOCKED BOTH SIDES OF WALL	5d COOLER @4" OC	5d COOLER @4" OC	(2) 2x6 WD STUDS	HDU4-SD2.5 5/8"Ø AB	5/8"Ø AB AT 2'-0" OR 3/4"Ø AB AT 2'-8" OC

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CORE & SHELL BUILDING FOR
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LEE'S SUMMIT, MISSOURI

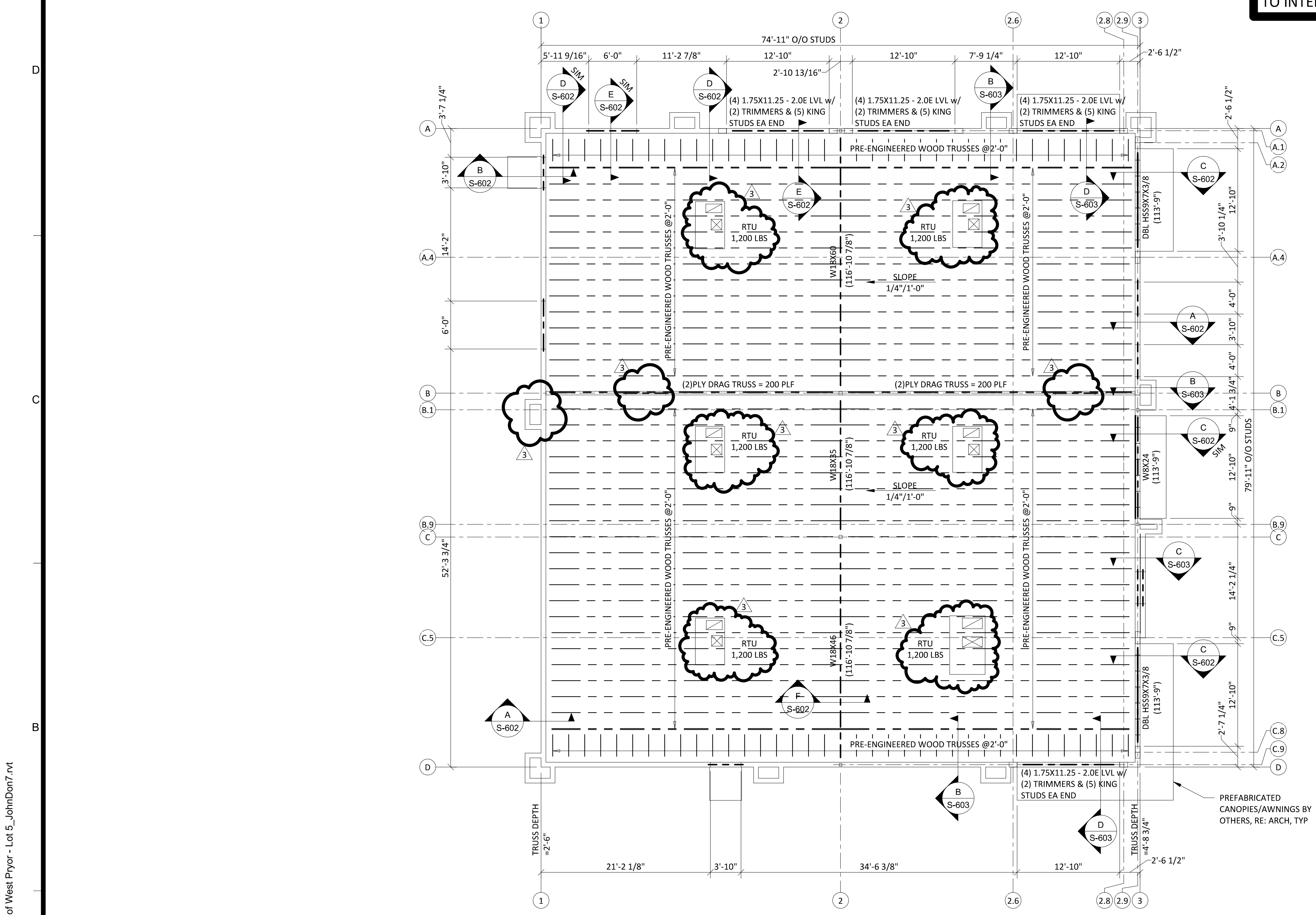
SUBMISSION DATES	
2023-05-23	
ASI #2	07/07/2023
ASI #3	07/26/2023

SHEET TITLE
WALL FRAMING PLAN

PROJECT NUMBER
230117

SHEET NUMBER
S-102

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NOTE: FACE OF STUD ALIGNS WITH THE CONCRETE SLAB EDGE FOR ALL EXTERIOR WALLS. ALL PLAN DIMENSIONS TO EXTERIOR WALLS ARE TO FACE OF STUD/FACE OF CONCRETE SLAB. ALL DIMENSIONS TO INTERIOR WALLS ARE TO FACE OF STUD/STRUCTURAL WALL.

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF CONSTRUCTION: WOOD SHEATHING (19/32" MIN) OVER PREFAB WOOD ROOF TRUSSES @ 2'-0" OC MAX. SHEATHING SHALL BE CONTINUOUS UNDER AREAS OF OVERBUILD. REFERENCE GENERAL NOTES FOR SHEATHING SPECIFICATIONS AND ATTACHMENT.

DESIGN ALL TRUSSES FOR 15 PSF NET UPLIFT.

PROVIDE BRIDGING AS PRESCRIBED BY THE TRUSS MANUFACTURER REQUIREMENTS.

TOS - TOP OF STEEL ELEVATION: NOTED THUS (ELEV)

TOP OF PARAPET = 125-0 (MAX)

TRUSS BEARING ELEVATION = 114-4

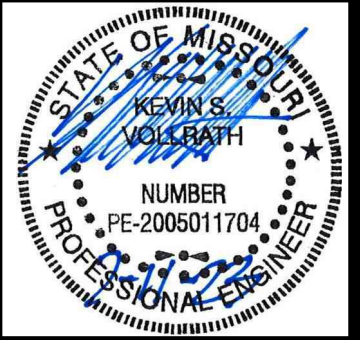
TYPICAL HEADERS IN OPENINGS LESS THAN 4'-0" SHALL BE (4) 2X8 OR DEEPER, ALL HEADERS IN OPENINGS UP TO 6'-6" SHALL BE (4) 2X10 OR DEEPER, ALL HEADERS IN OPENINGS UP TO 8'-4" SHALL BE (4) 2X12. CONSTRUCT HEADERS PER "TYPICAL HEADER CONSTRUCTION" DETAIL." ALL HEADERS SHALL HAVE (1) TRIMMER MINIMUM AND (2) DEDICATED STUDS MINIMUM. PROVIDE (2) TRIMMERS AT OPENINGS LARGER THAN 7'-4".

LINTELS: LOOSE BRICK LINTELS FOR DOOR AND WINDOW OPENINGS UP TO 8'-4" SHALL BE L5X5X3/8 GALVANIZED (ASTM A36)

DESIGN ROOF TRUSSES TO SUPPORT RTU LOADS AT LOCATIONS SHOWN. NOTIFY ENGINEER IF WEIGHTS, SIZES, OR LOCATIONS VARY FROM THAT SHOWN.

VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ALL DISCREPANCIES.

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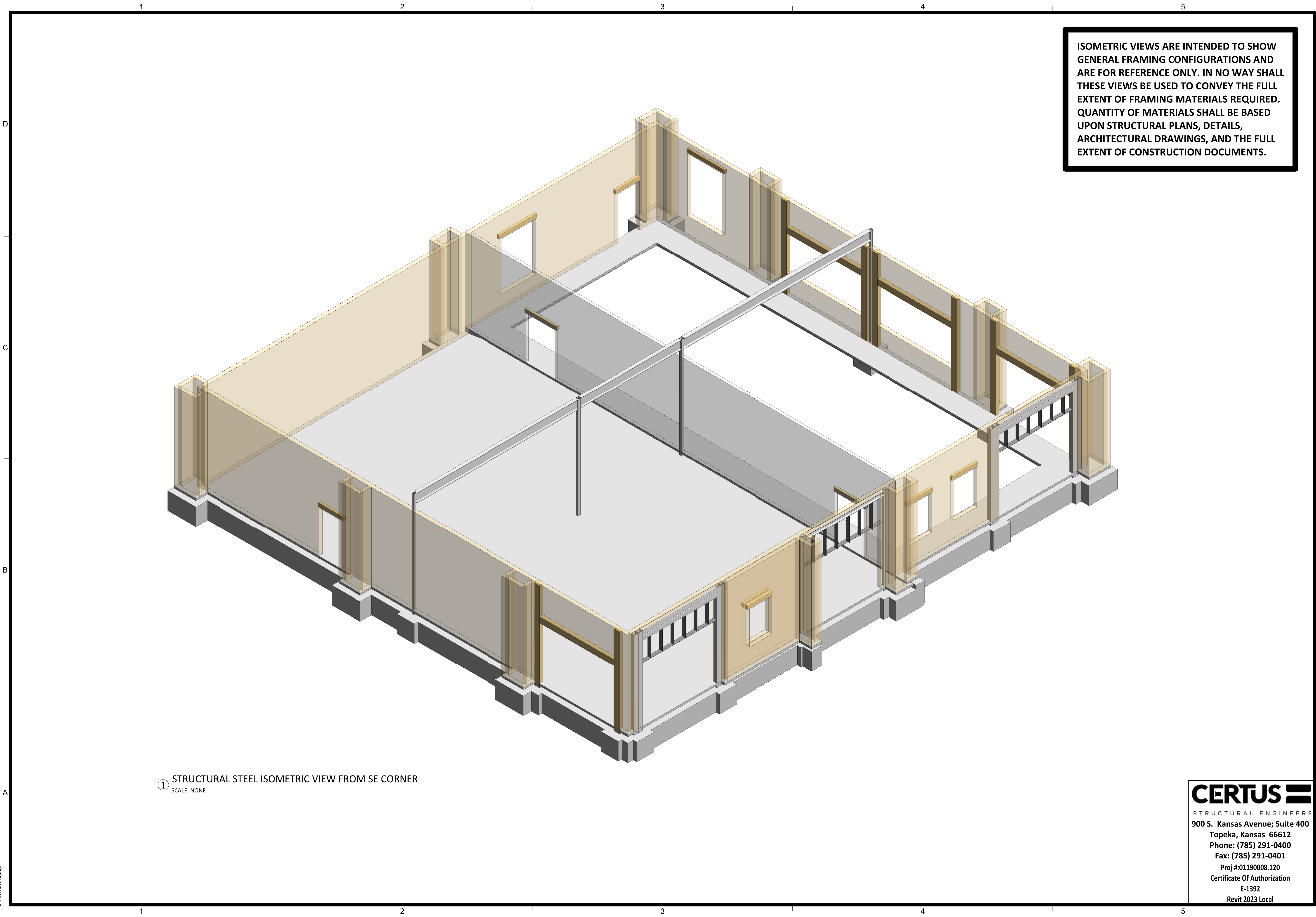


**CORE & SHELL BUILDING FOR
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ROOF FRAMING PLAN	
PROJECT NUMBER	
230117	
SHEET NUMBER	
S-103	

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① STRUCTURAL STEEL ISOMETRIC VIEW FROM SE CORNER
SCALE: NONE

ISOMETRIC VIEWS ARE INTENDED TO SHOW GENERAL FRAMING CONFIGURATIONS AND ARE FOR REFERENCE ONLY. IN NO WAY SHALL THESE VIEWS BE USED TO CONVEY THE FULL EXTENT OF FRAMING MATERIALS REQUIRED. QUANTITY OF MATERIALS SHALL BE BASED UPON STRUCTURAL PLANS, DETAILS, ARCHITECTURAL DRAWINGS, AND THE FULL EXTENT OF CONSTRUCTION DOCUMENTS.



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CORE & SHELL BUILDING FOR
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LEE'S SUMMIT, MISSOURI

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FRAMING ISOMETRIC	

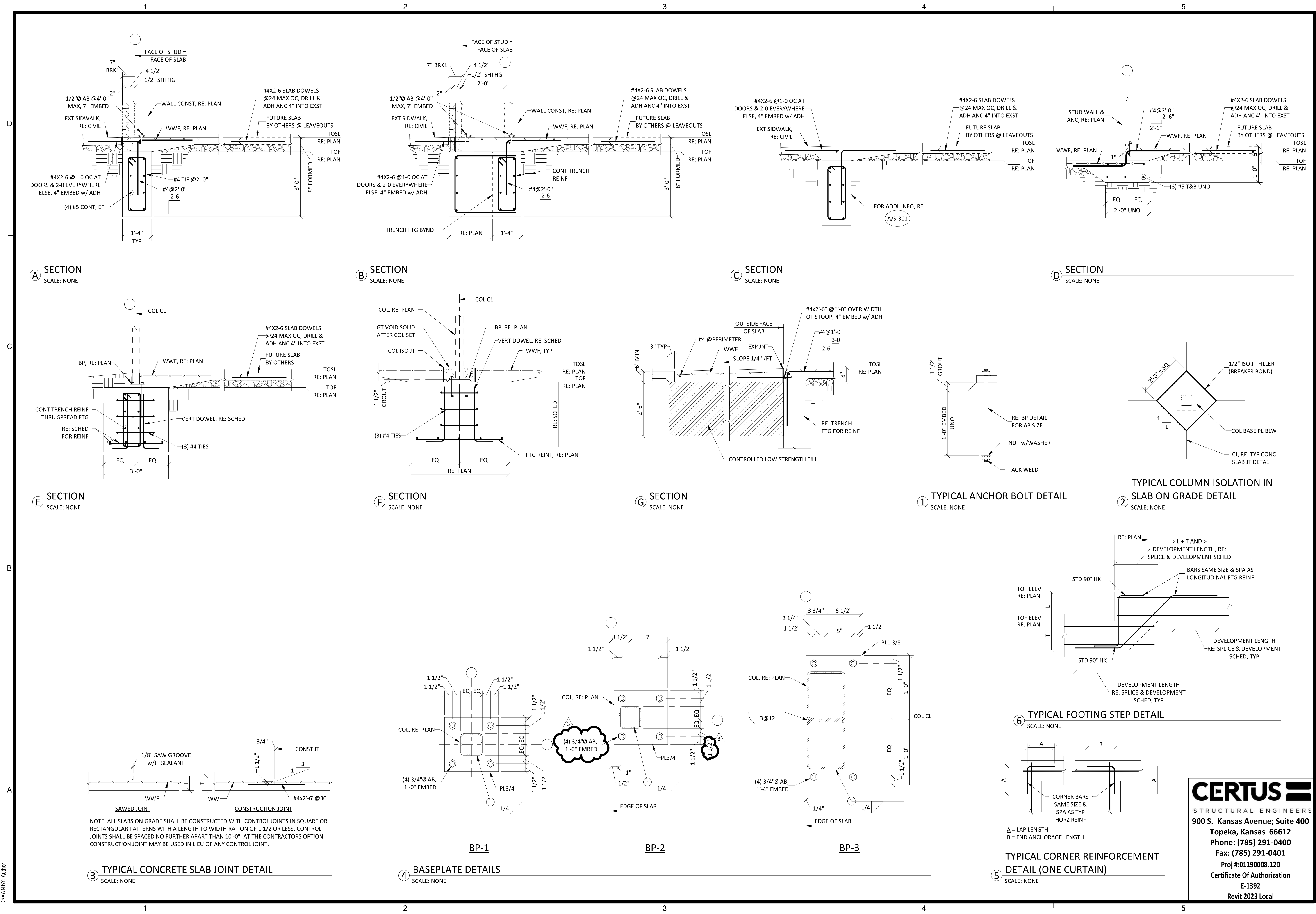
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SHEET NUMBER	
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KEVIN S. VOLZ
PE-2005011704
Professional Engineer
State of Missouri

**CORE & SHELL BUILDING FOR
STREETS OF WEST PRYOR LOT 5**
LEE'S SUMMIT, MISSOURI

SUBMISSION DATES	
2023-05-23	
ASI #2	07/07/2023

SHEET TITLE	
CONCRETE DETAILS & SECTIONS I	

PROJECT NUMBER	
230117	

SHEET NUMBER	
S-301	

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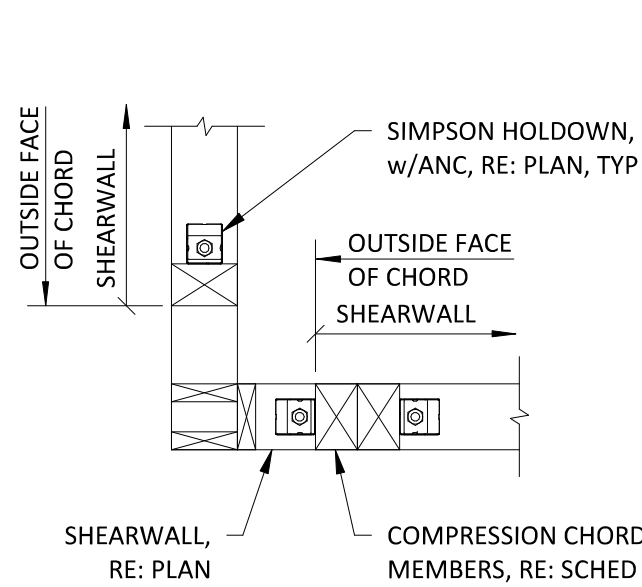
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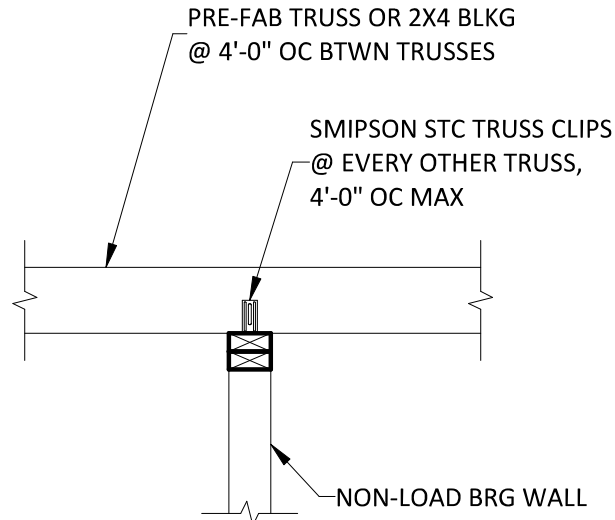
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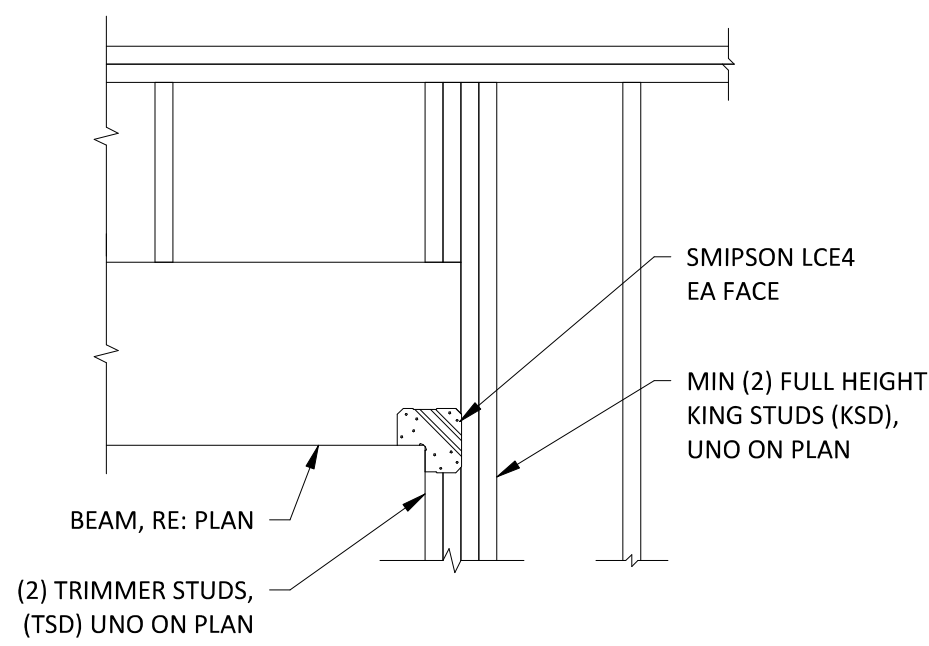
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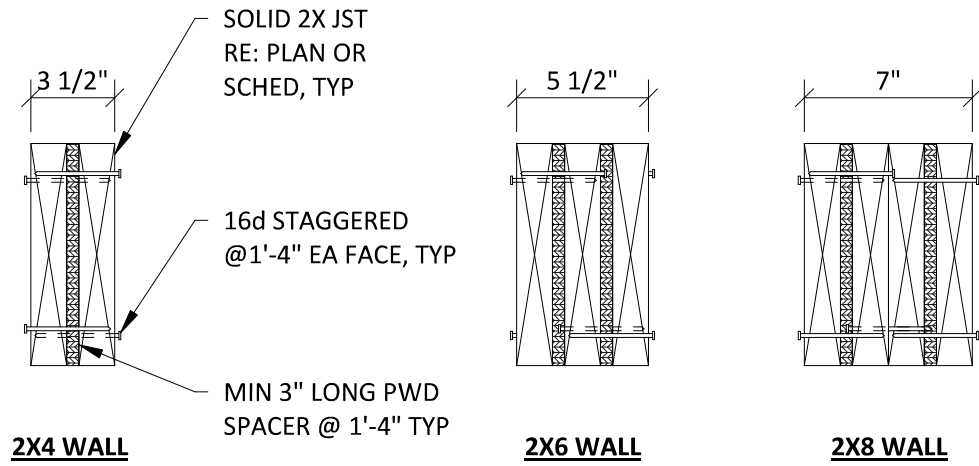
1 TYPICAL HOLDOWN ASSEMBLY
CORNER (ALTERNATE)
SCALE: NONE



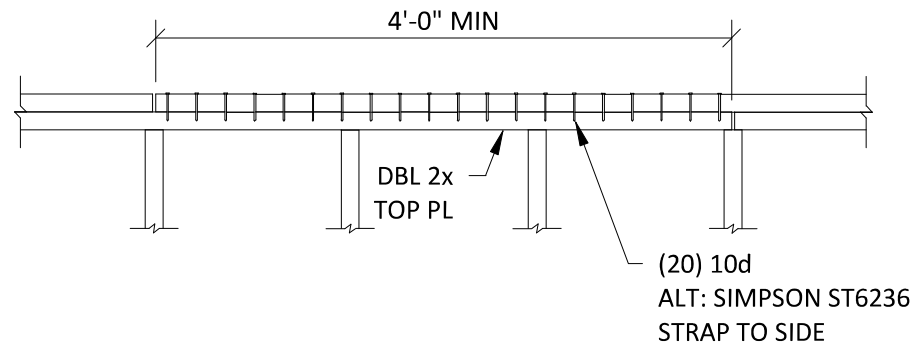
2 NON-LOAD BEARING WALL LATERAL
SUPPORT DETAIL
SCALE: NONE



3 TYPICAL HEADER CONSTRUCTION DETAIL
SCALE: NONE

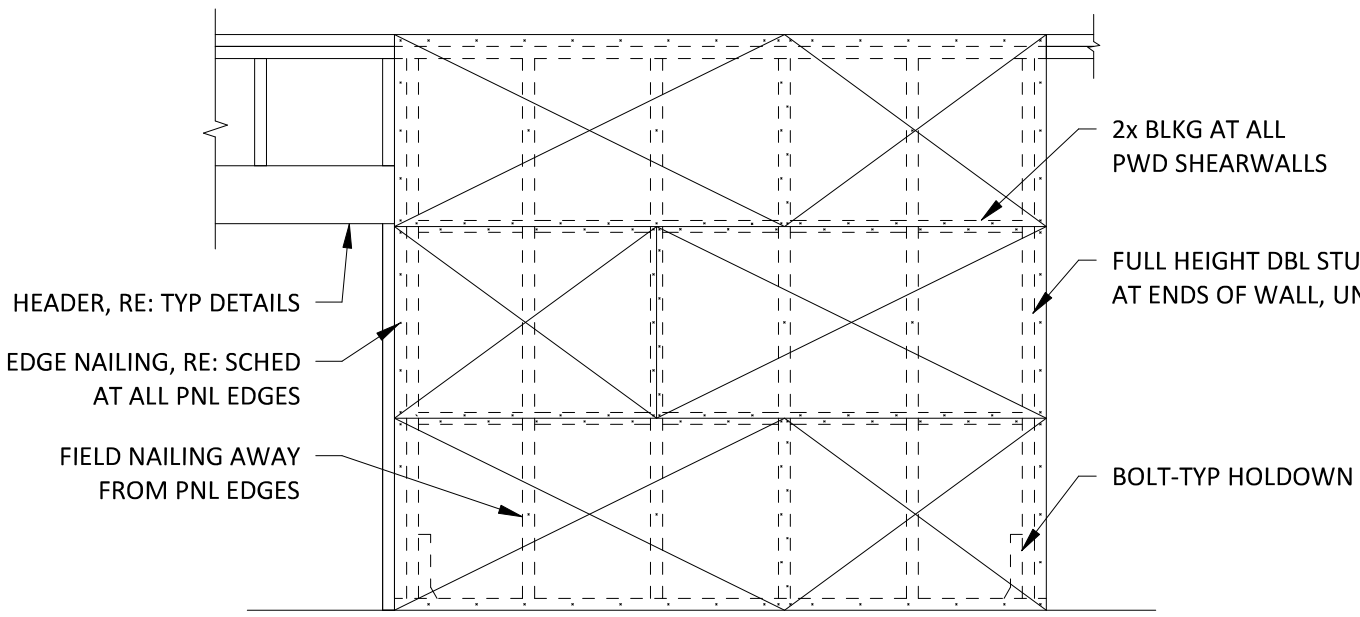


4 TYPICAL BUILT-UP HEADER CONSTRUCTION
SCALE: NONE

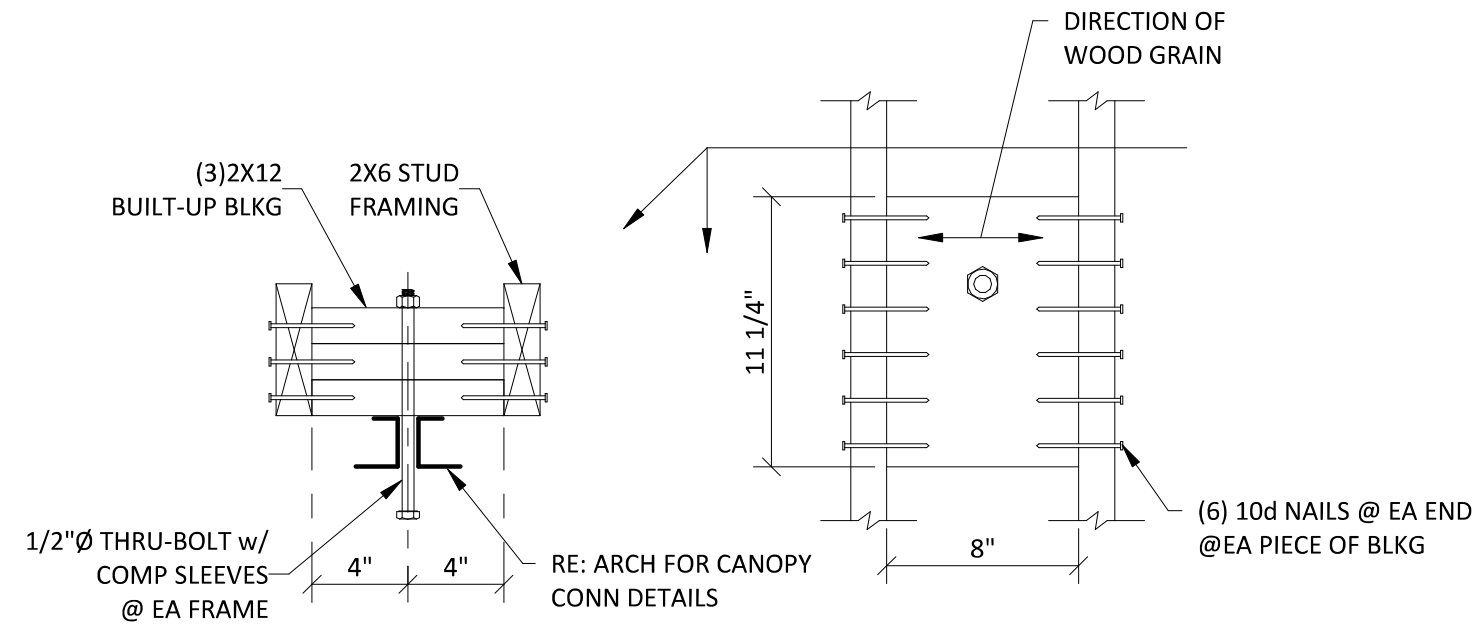


5 TYPICAL TOP PLATE SPLICE DETAIL
SCALE: NONE

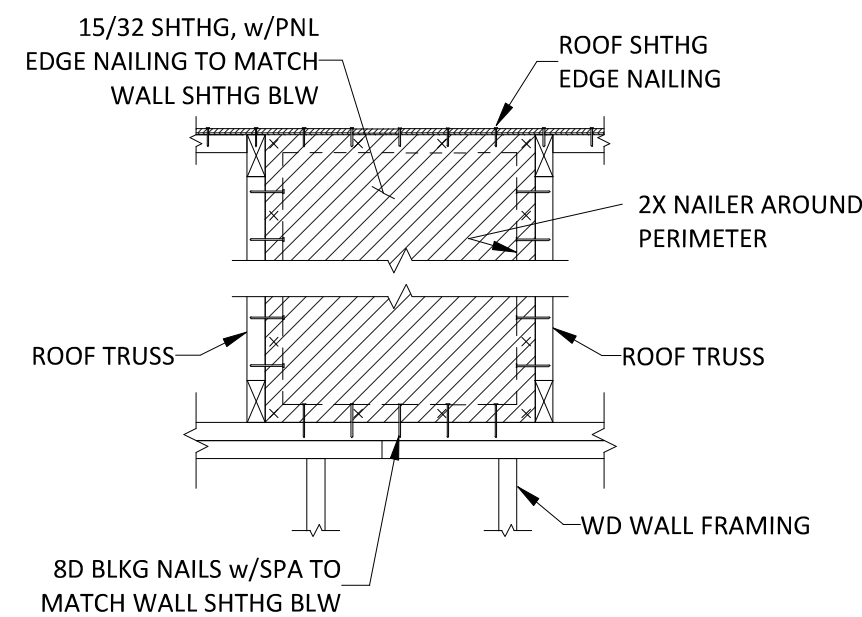
NOTES:
1. SPLICE REQUIRED OVER ALL SHEARWALLS AND ALL EXTERIOR AND BEARING WALLS.
2. SPECIFIC SPLICE REQUIREMENTS DO NOT APPLY TO INTERIOR NON-SHEARWALLS OR TOP OF PARAPET WALLS UNLESS NOTED OTHERWISE.



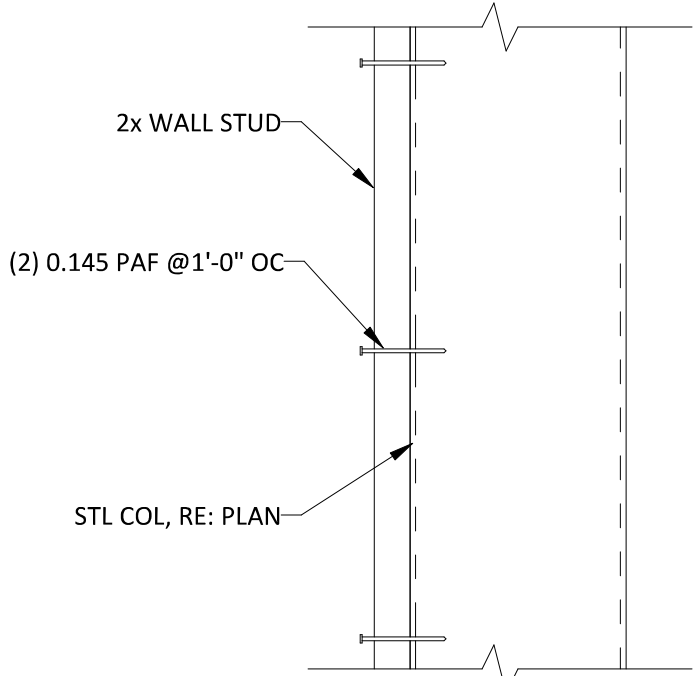
6 TYPICAL SHEARWALL CONSTRUCTION
SCALE: NONE



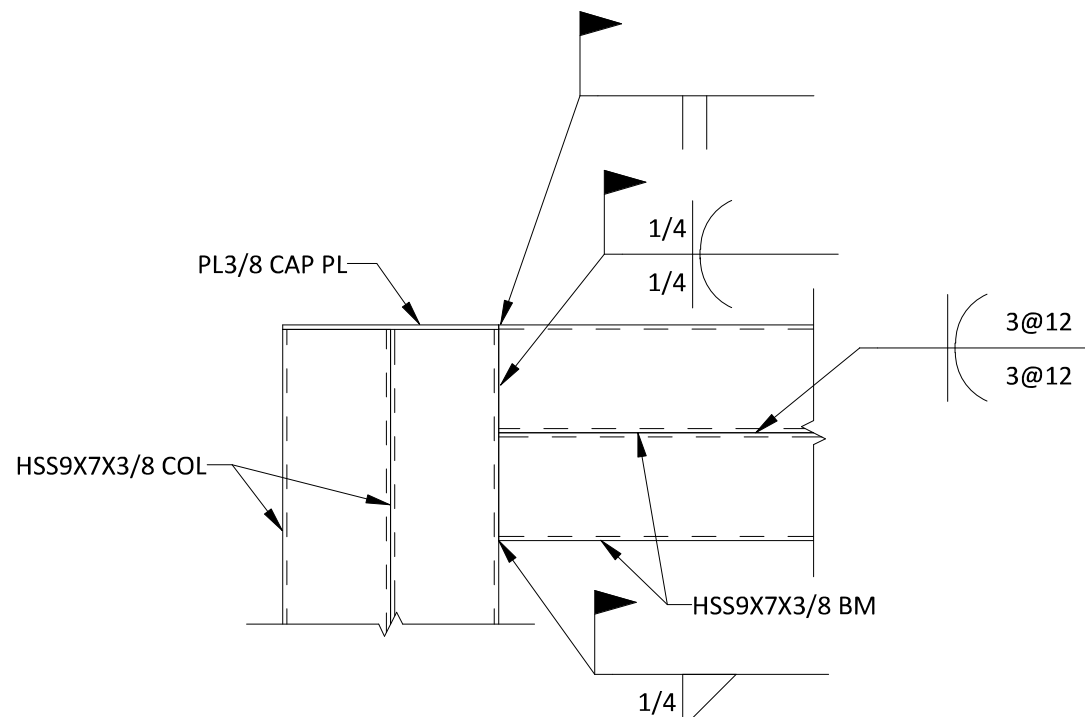
7 TYPICAL CANOPY CONNECTION BLOCKING DETAIL
SCALE: NONE



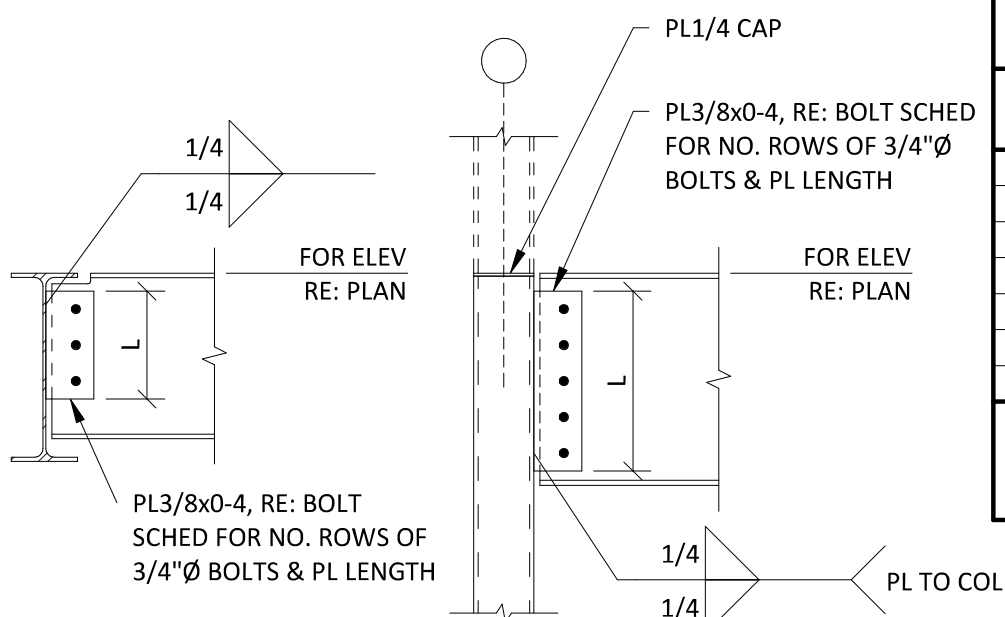
8 TYPICAL SHEAR BLOCKING
BETWEEN TRUSSES
SCALE: NONE



9 TYPICAL SHEARWALL TERMINATION
AT STEEL COLUMN DETAIL
SCALE: NONE



10 TYPICAL TUBE COLUMN TO BEAM CONNECTION
SCALE: NONE



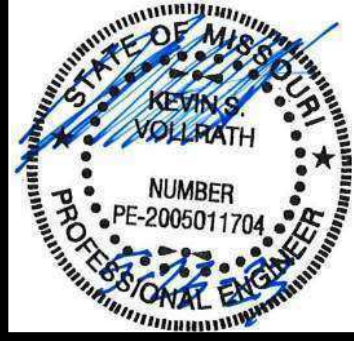
11 TYPICAL STEEL CONNECTIONS DETAIL (SHEAR TABS)
SCALE: NONE

BOLT SCHEDULE		
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, W33	2'-6"	10

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

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CORE & SHELL BUILDING FOR
STREETS OF WEST PRYOR LOT 5
LEE'S SUMMIT, MISSOURI

SUBMISSION DATES
2023-05-23

SHEET TITLE
FRAMING DETAILS &
SECTIONS I

PROJECT NUMBER
230117

SHEET NUMBER
S-601

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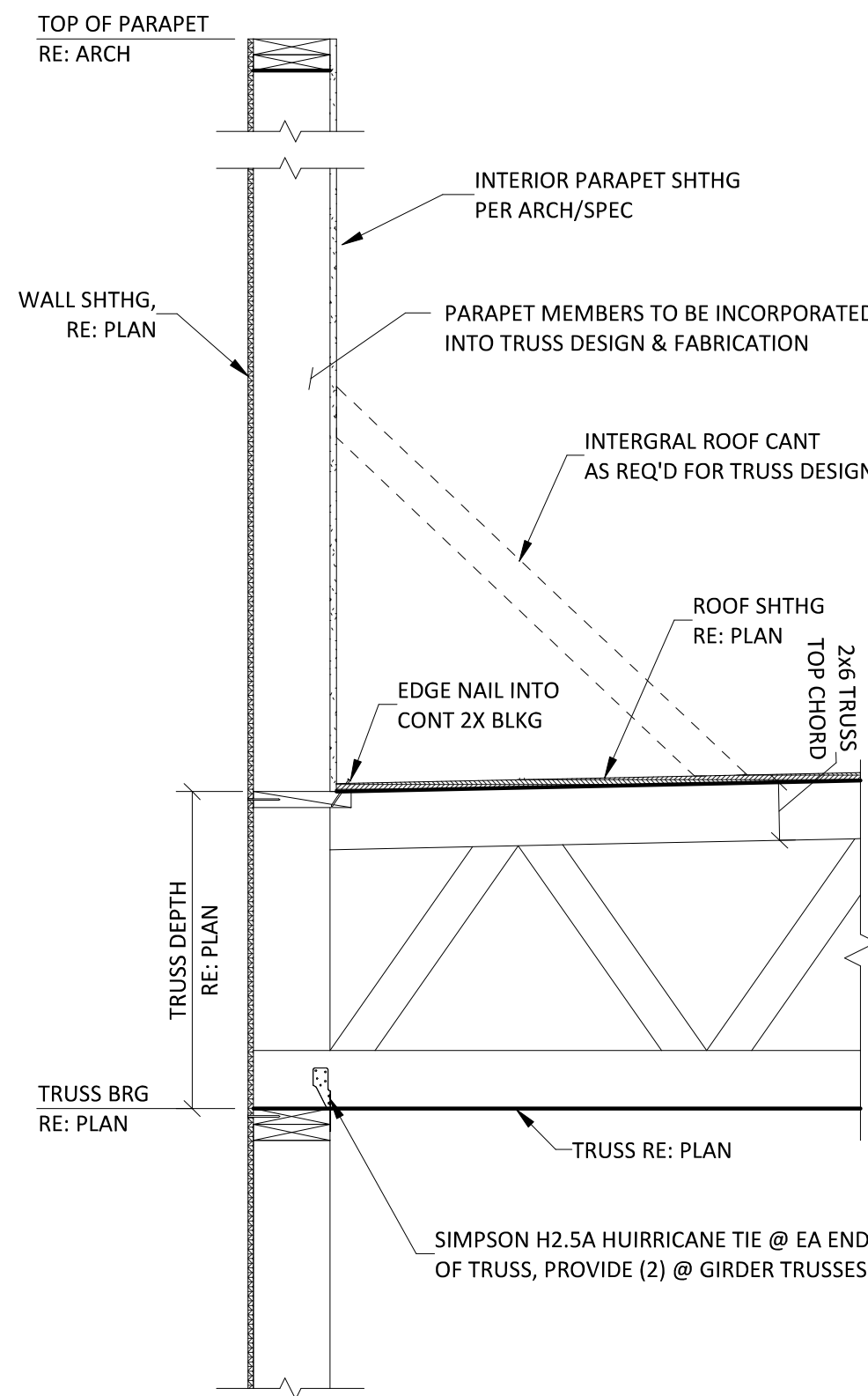
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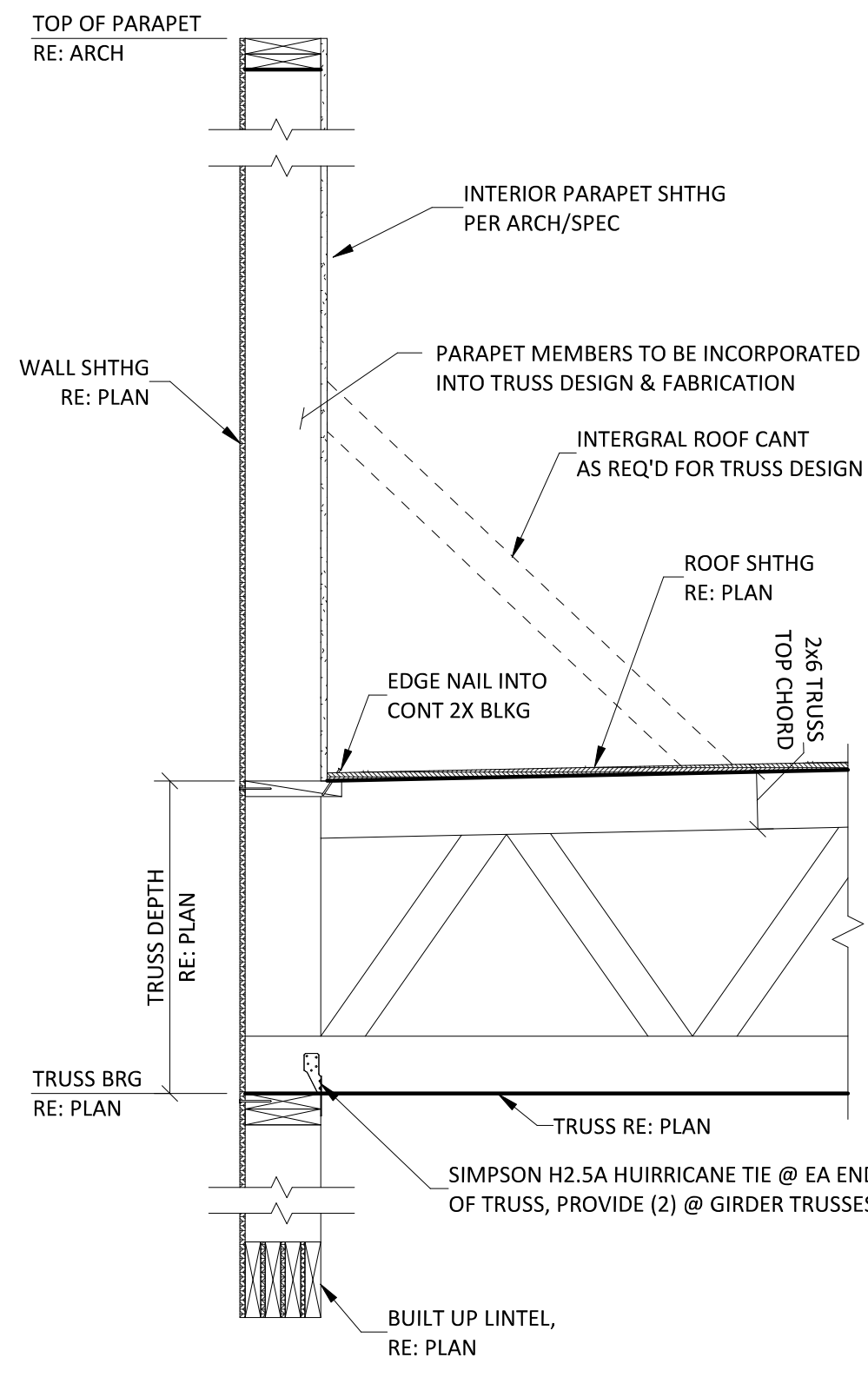
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B

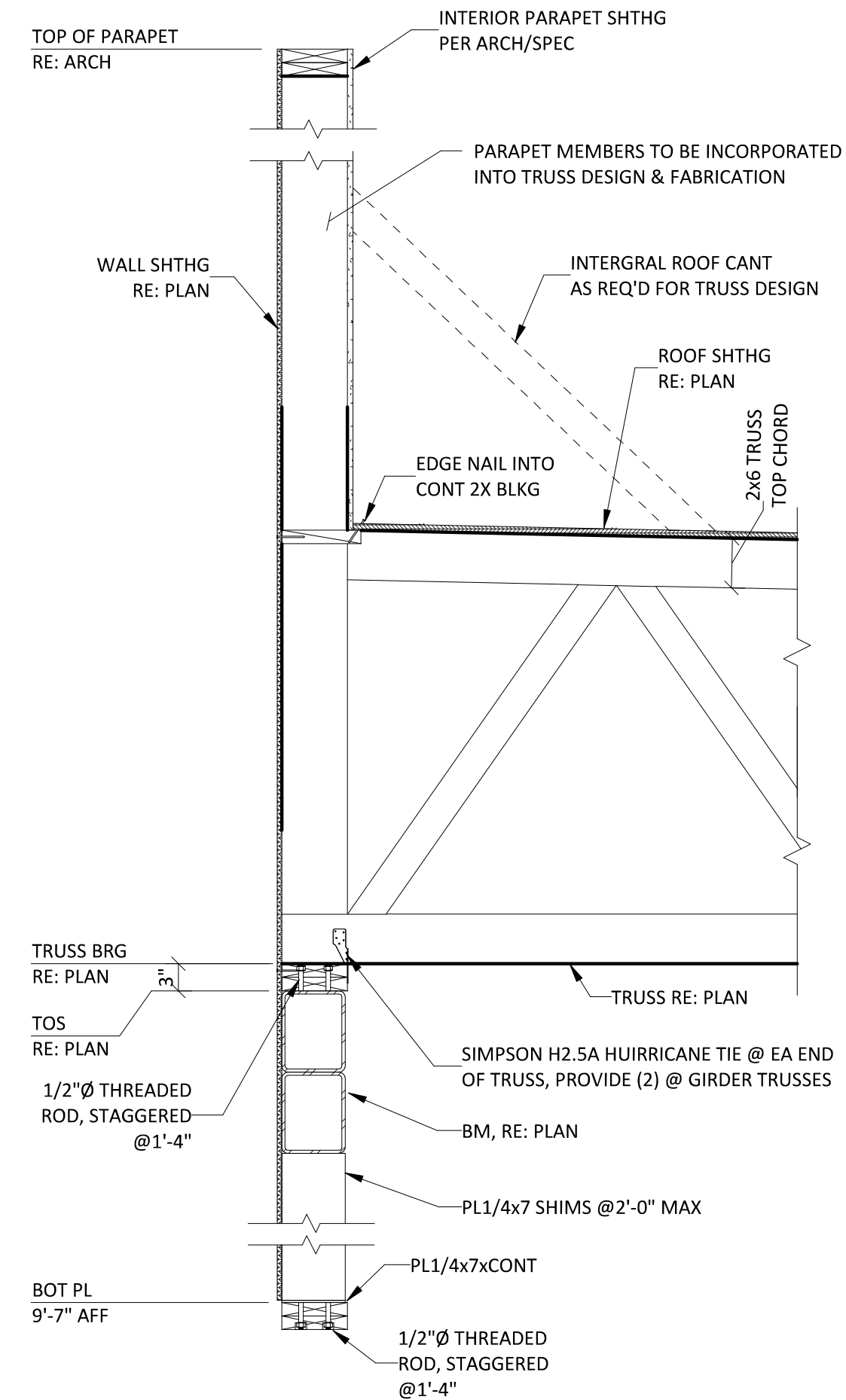
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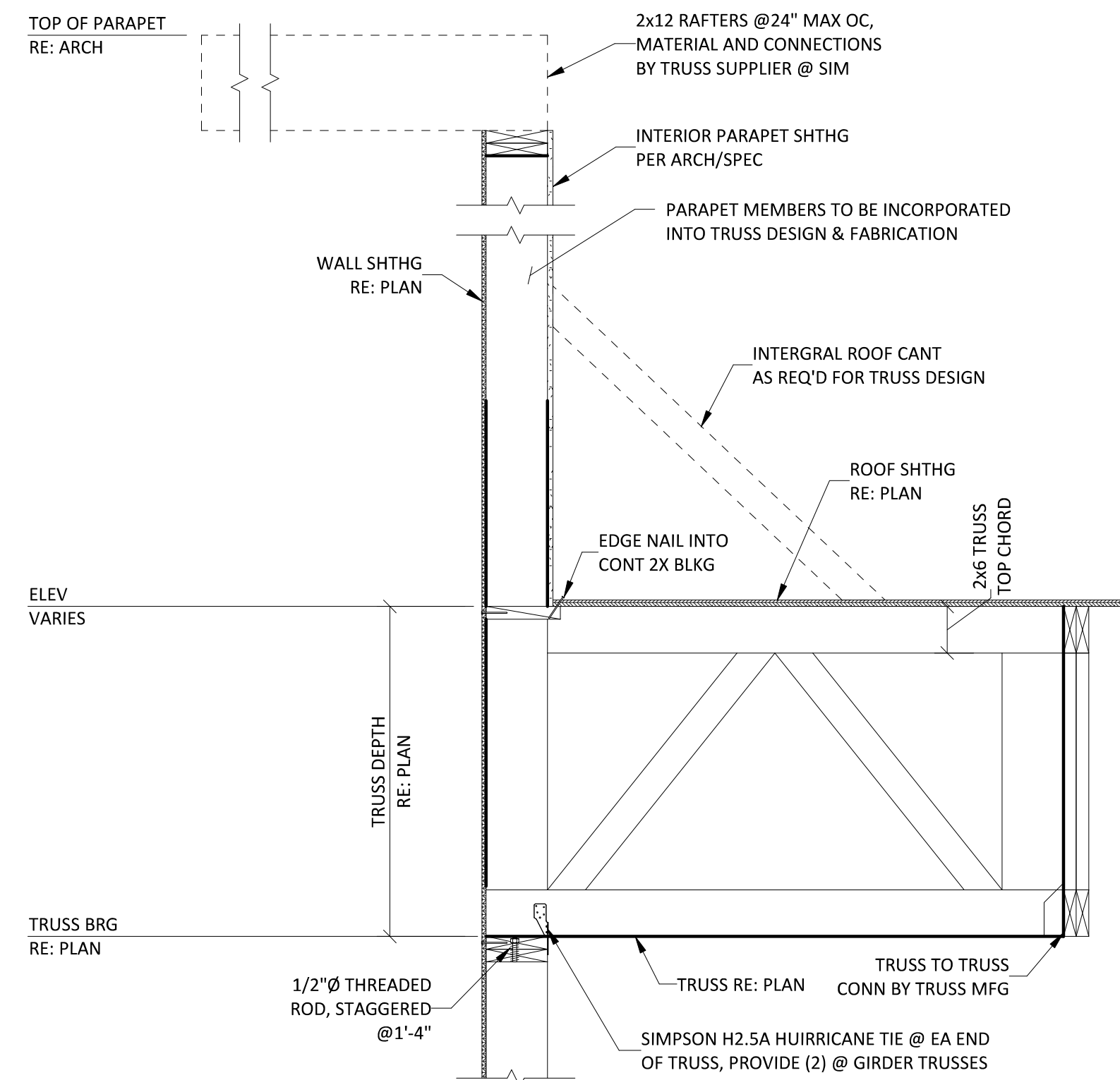
A SECTION
SCALE: NONE



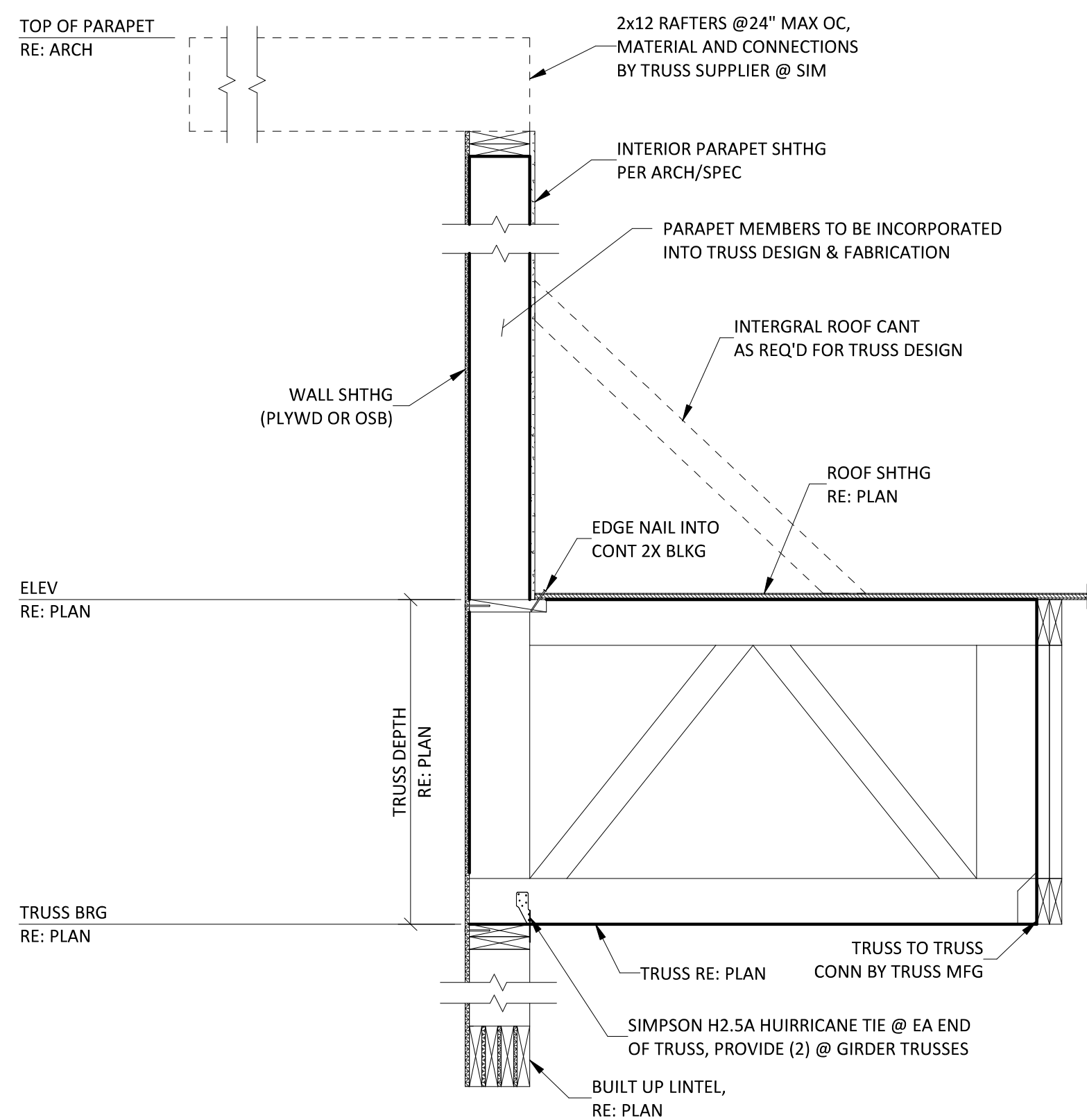
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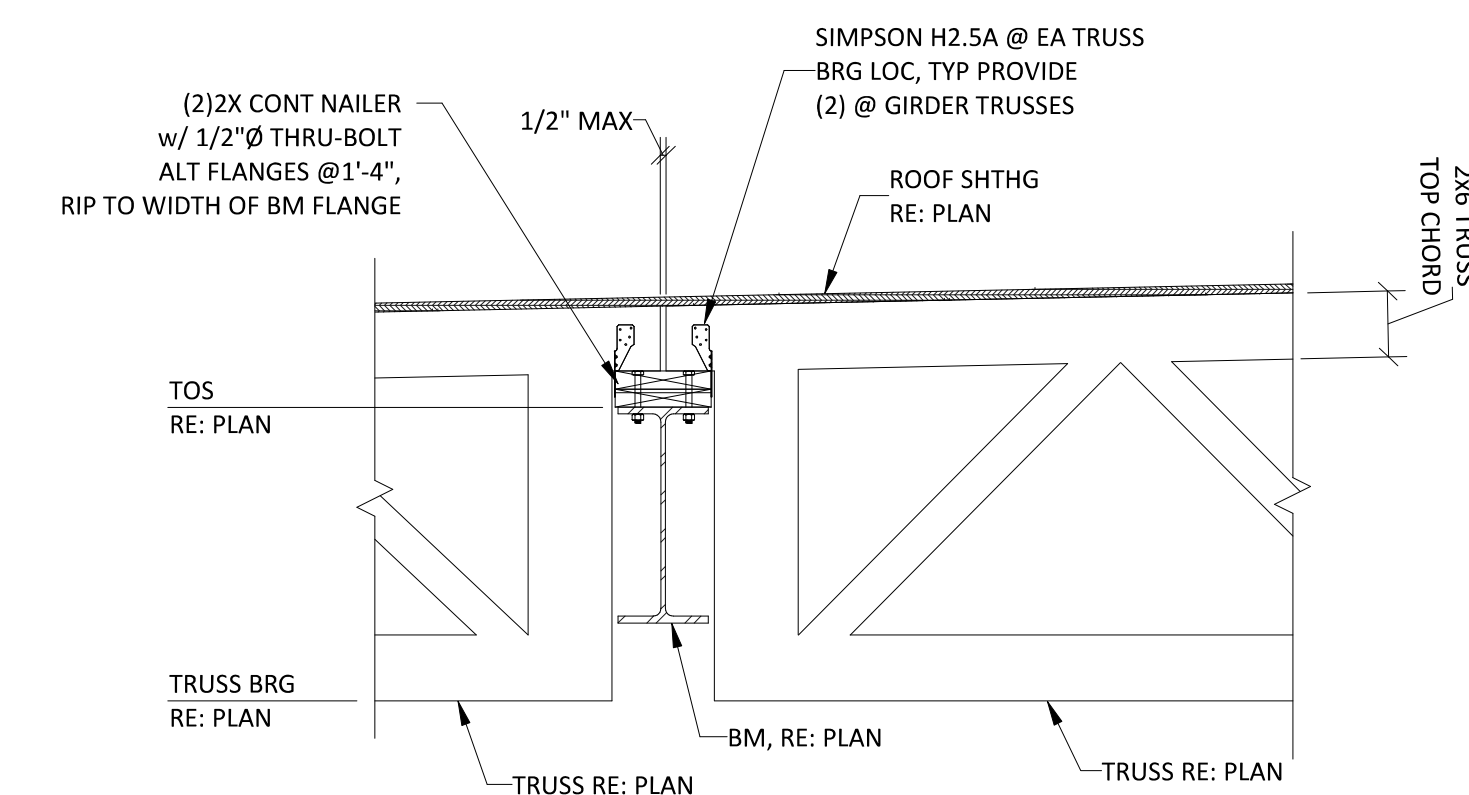
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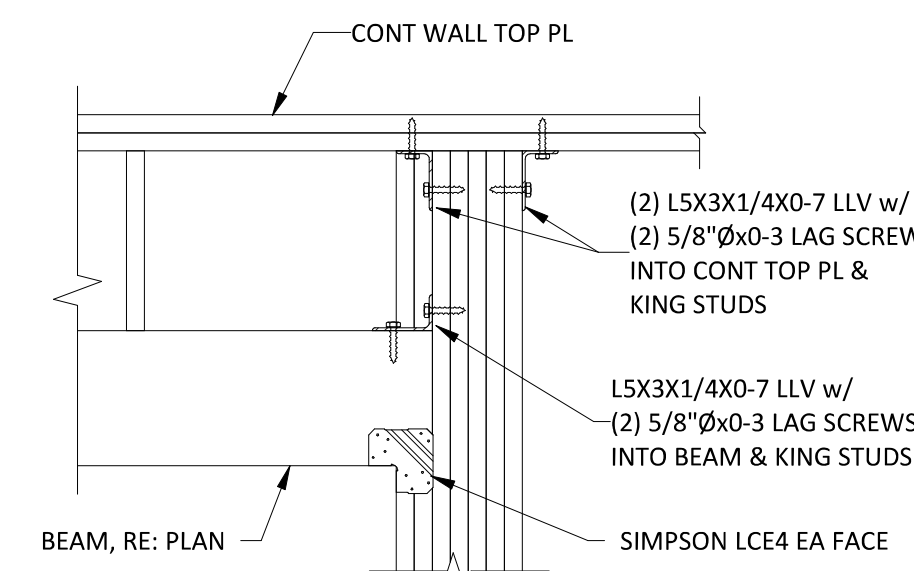
D SECTION
SCALE: NONE



E SECTION
SCALE: NONE



F SECTION
SCALE: NONE



G SECTION
SCALE: NONE

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**CORE & SHELL BUILDING FOR
STREETS OF WEST PRYOR LOT 5**
LEE'S SUMMIT, MISSOURI

SUBMISSION DATES
2023-05-23

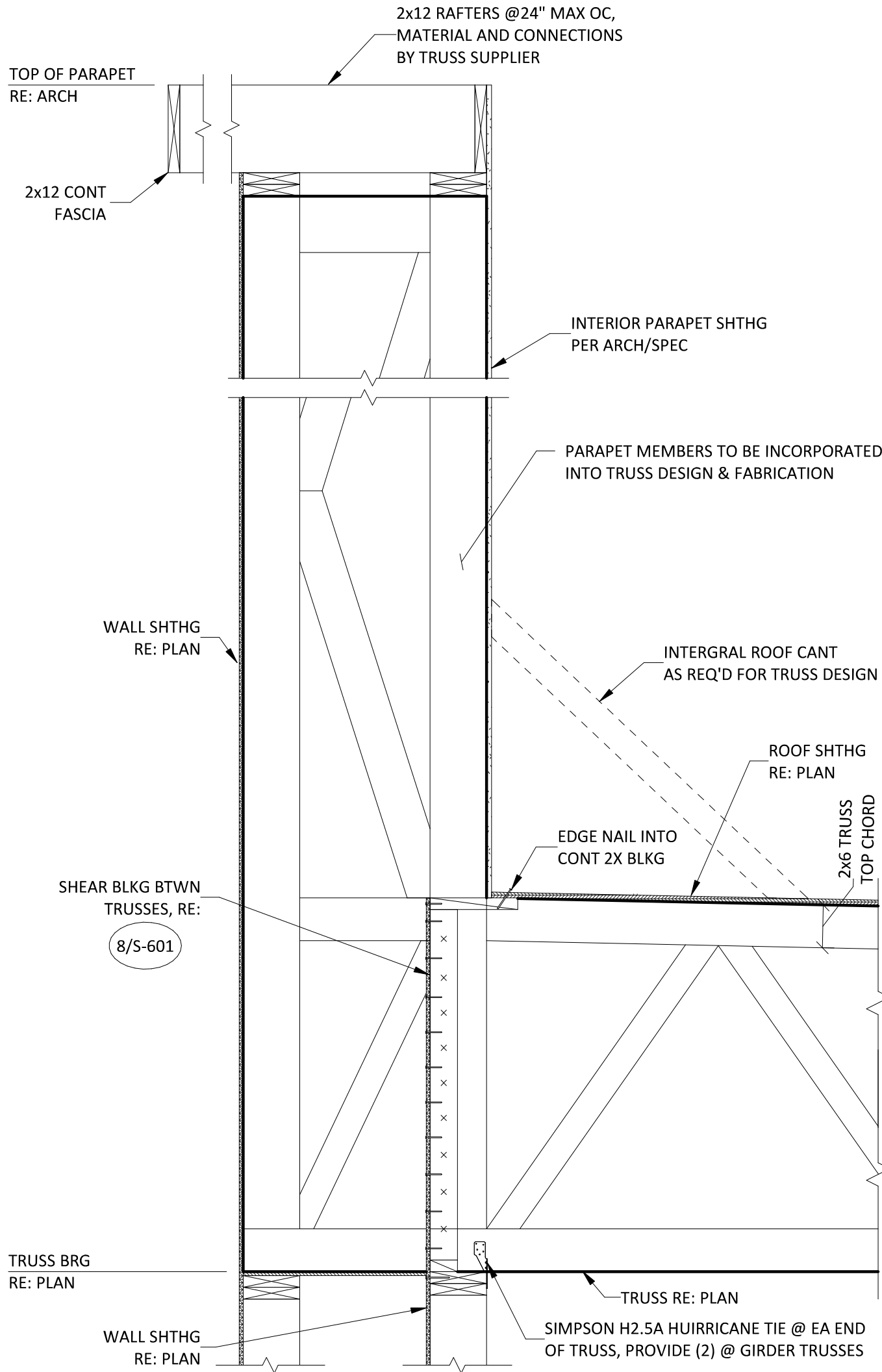
SHEET TITLE
FRAMING DETAILS &
SECTIONS II

PROJECT NUMBER
230117

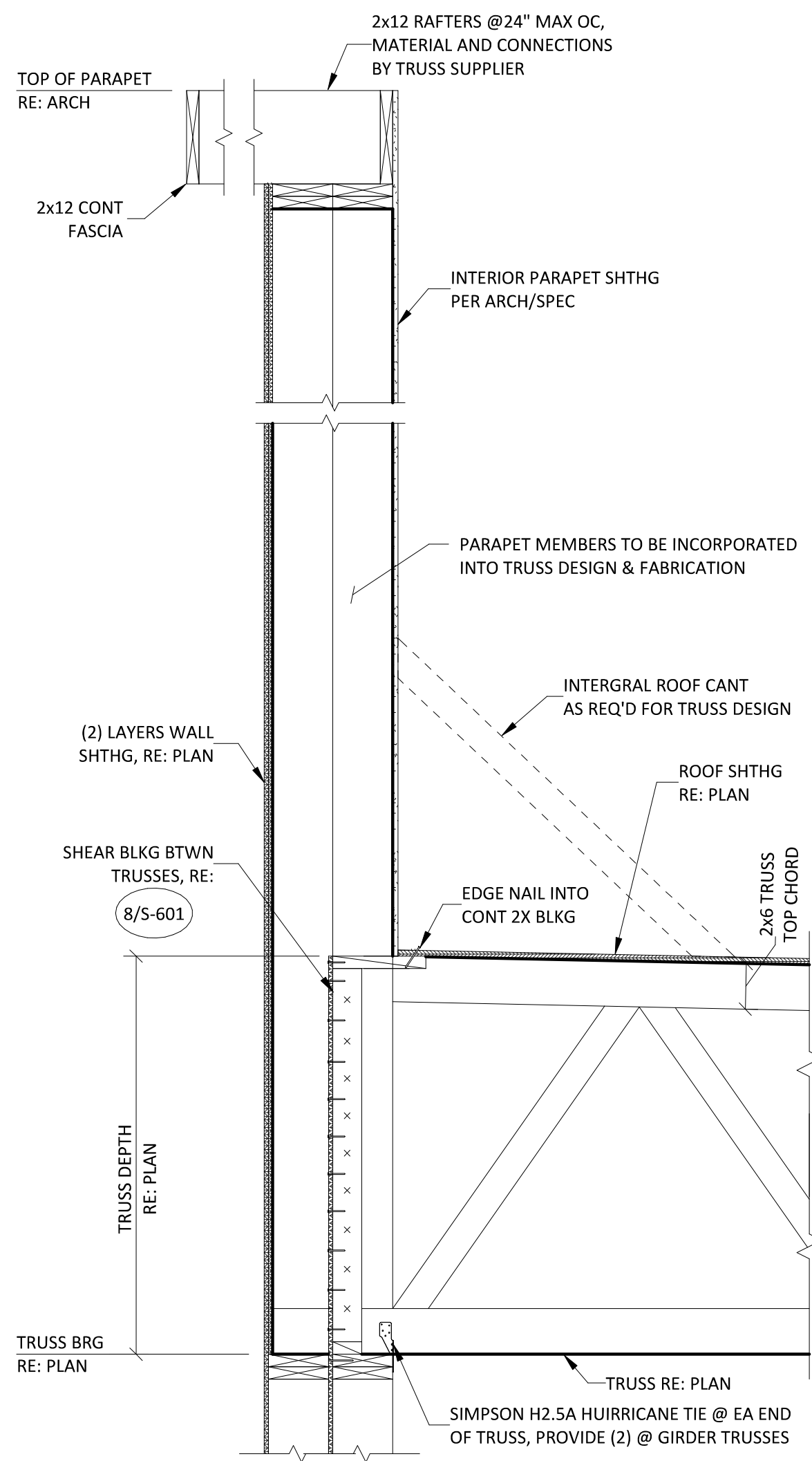
SHEET NUMBER
S-602

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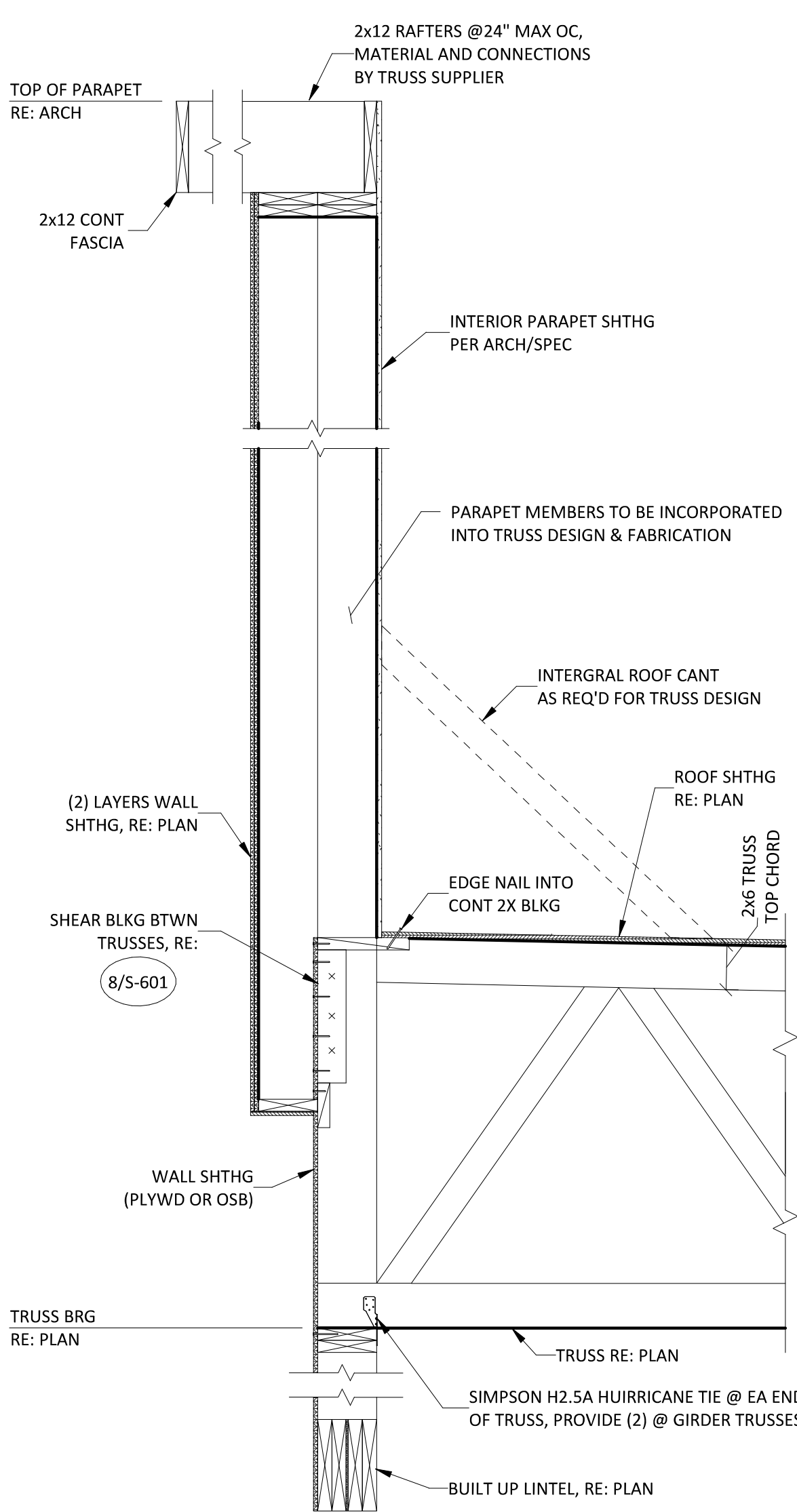
B SECTION
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C SECTION
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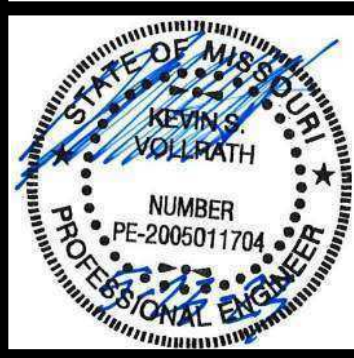


D SECTION
SCALE: NONE



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CORE & SHELL BUILDING FOR
STREETS OF WEST PRYOR LOT 5
LEE'S SUMMIT, MISSOURI

SUBMISSION DATES 2023-05-23
SHEET TITLE FRAMING DETAILS & SECTIONS III
PROJECT NUMBER 230117
SHEET NUMBER S-603

15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 - MECHANICAL REQUIREMENTS

1. GENERAL REQUIREMENTS
- A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING MECHANICAL & PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- B. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.
- C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
- D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
- E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
- F. WARRANTY TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER. ALL MATERIALS INSTALLED IN PLUMBING SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
- G. ROOF PENETRATIONS - MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 - PLUMBING

- A. WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS. THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.
- B. WASTE & VENT PIPING - CI BELL & SPIGOT OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLUMBING.
- C. ROOF/STORM DRAIN PIPING - CI BELL & SPIGOT OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLUMBING. INSULATE W/ MIN 1/2" FIBERGLASS PIPE WRAP W/ ASJ JACKET.
- D. GAS PIPING - PROVIDE SCHED 40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THREADED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS. PAINT ALL EXPOSED GAS PIPING ON THE EXTERIOR OF THE BUILDING INCLUDING ON THE ROOF.
2. VALVES
- A. BALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLON SEATS, BRONZE BALL & INSULATED HANDLE.
- B. BALANCING VALVES - ADAMSTRONG MODEL CBV 1 OR CBV II, 125 PSI-WP AT 250 DEGREES F., WATER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.
- C. CHECK VALVES - 2" 7 SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLON OR BRONZE DISC & SEAT. RING, 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200 PSI-WOG/125 PSI-WSP.
- D. BUTTERFLY VALVES - 3" & LARGER LEVER ASTM A126 CI DRILLED & TAPPED FULL LUG BODY, 200 PSI-WOG, EXTENDED NECK, BRONZE DISC, STAINLESS STEEL STEM, FIELD-REPLACEABLE EPDM SLEEVE & STEM SEALS.
- E. EQUIVALENT VALVE MANUFACTURERS: MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APOLLO, MUELLER, MUESCO, MATTS, HAYS, ROCKWELL-NORSTROM.

- FIXTURES - SEE SCHEDULES
- A. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO
- B. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL
- C. FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC.
- D. SEATS: CHURCH, OLSONITE, BEMIS OR BENKE.
- E. DRINKING FOUNTAINS: HALSEY TAYLOR, ELKAY, GASS, OR HANS.
- F. TRIM BY DELTA, ELJER, KOHLER, AMERICAN STANDARD, CRANE, SLOAN.
- G. FLUSHVALVES: SLOAN, ZURN, TOTO
- H. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.
- I. ROOF DRAINS - CAST IRON ROOF DRAIN W/ FLANGE, CI MUSHROOM DOME. 2" DAM FOR OVERFLOW DRAINS
- J. WALL HYDRANTS JOSAM SERIES 71000 W/ CONNECTIONS FOR 3/4" PIPE & HOSE. NON-FREEZING W/ KEY, VACUUM BREAKER, LOCKING COVER. EQUIVALENT BY J.R. SMITH, WADE, WOODFORD OR ZURN.

EQUIPMENT - SEE SCHEDULES

- A. WATER HEATER - STATE, RHEEM, NATIONAL, A.O. SMITH. PORCELAINIZED GLASSLINED TANK. COLD WATER INLET DROP TUBE. MAGNESIUM ANODE RODS. ULL SEAL, 160 PSI. FACTORY TEMPERATURE & PRESSURE RELIEF VALVE. N.S.F. CONSTRUCTION. 3 YR WARRANTY.
- B. SUBMERSIBLE SUMP PUMPS - SIMPLEX/DUPLEX SUBMERSIBLE PUMP SYSTEM AS SCHED/SHOWN. PUMP CASING ONE PIECE CAST IRON W/ SUPPORT LEGS, CI SUCTION STRAINER. VERTICAL MOTOR, NEMA-B, NOT LESS THAN HP SCHED & 1750 RPM. AUTO-RESET THERMAL/OVERLOAD PROTECTION.
- C. RECIRCULATION PUMPS - HORIZONTAL, OIL-LUBRICATED, ALL BRONZE. NON-OVERLOADING MOTOR.
- EXECUTION
- A. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.
- B. AFTER PIPING IS IN PLACE TEST LINES TO ENSURE NO LEAKS.
- C. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.
- D. ESCUTCHEONS - PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.
- E. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.
- F. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANKS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY CAPACITY. LOCATE ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

SECTION 15300 - HVAC GENERAL

- A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, GRILLES, & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.
- B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NEC, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.
- DUCTWORK
- A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.
- B. VOLUME DAMPERS SHALL BE MANUAL LOCKING BLADE TYPE.
- C. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.
- D. WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. ALSO LINE FIRST 10' OF SUPPLY DUCTWORK FOR SOUND ATTENUATION (IN ADDITION TO WRAP) LINE ALL RETURN AIR DUCTS & TRANSFER BOOTS W/ 1/2" LINER.

EQUIPMENT

- A. ROOFTOP UNITS AS SCHEDULED. EQUIVALENTS BY TRANE, CARRIER, YORK, LENNOX, A/CAN, DAKIN, MIN 14" ROOF CURB. PROVIDE SLOPED CURB AS REQUIRED FOR LEVEL UNIT INSTALLATION. ECONOMIZER W/ BAROMETRIC RELIEF, FIXED DRY BULB CONTROL. 2" MERV 7 FILTERS. LOUVERED HAIL GUARDS. 30 DEG LOW AMBIENT.
- B. EXHAUST FANS - EQUIVALENT BY COOK, PENN, ACME, GREENHECK, JENNAIRE, TWIN CITY. PROVIDE W/ SPEED CONTROLS FOR ALL FANS LESS THAN 1/3HP TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE W/ 14" MIN. CURB.
- C. PROVIDE PROGRAMMABLE THERMOSTATS W/ STAGES OF HEATING AND COOLING AS REQUIRED BY STAGES OF HEATING AND COOLING ON SPECIFIED EQUIPMENT. SEVEN (7) DAY PROGRAMMING CAPABILITY W/ 2 OCC/UNOCC PERIODS/DAY. AUTO HEAT/COOL CHANGE OVER. LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, TRANE, CARRIER, A/CAN, LENNOX, DAKIN, OR APPROVED EQUAL.

EXECUTION

- B. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.
- C. PROVIDE DRAIN- MOUNTED UNITS ON 4", REINFORCED CONCRETE BASE, 4" LARGER THAN UNIT ON EACH SIDE.
- D. ROOF-MOUNTED UNITS ON EQUIPMENT SUPPORTS OR CURBS. ANCHOR UNITS TO SUPPORTS
- E. PROVIDE FACTORY-AUTHORIZED SERVICE START UP ON EQUIPMENT. TRAIN OWNER'S MAINTENANCE PERSONNEL ON STARTUP, SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE.

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 - ELECTRICAL REQUIREMENTS

GENERAL REQUIREMENTS

- A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
- C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.
- D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.
- E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
- F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.
- G. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.
- H. WARRANTY TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.
- I. ALL MATERIALS INSTALLED IN PLUMBING SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 - CONDUIT & CONDUCTORS

- A. FOLLOW CIRCUITS SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.
- B. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A, LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.
- C. MC CABLE ACCEPTABLE FOR BRANCH COMMENCEMENT CIRCUITS AND LIGHTING CIRCUITS. DO NOT DASHY CHAIN LIGHT FIXTURES. PROVIDE MC LUMINARY CABLE WITH BUILT-IN TWISTED JACKETED PAIR FOR LIGHTING CIRCUITS FOR LIGHTING CONTROLS. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.
- D. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
- E. PROVIDE INTERLOCKING SPACERS FOR MULT RUNS OF UG CONDUITS IN SAME TRENCH.
- F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN INDIVIDUAL FIXTURE MANUF RECOMMENDED RATING.
- G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C.
- H. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16200 - GROUNDING

- A. SUPPLEMENT GROUNDED NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACKWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.
- B. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.
- C. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE SWITCHGEAR. BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.
- D. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.
- E. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.
- F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER.

SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.

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

SECTION 16300 - ELECTRICAL EQUIPMENT

- A. JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEET IN EITHER DIRECTION IF SO DIRECTED, WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPOBOARD SURFACES.

PANELBOARDS

- A. BRANCH CIRCUIT 208/240V PANELS SHALL BE CAPACITY SHOWN W/ TIN PLATED COPPER BUSSING & BRACED FOR MINIMUM OF 22,000A IAC OR AS OTHERWISE NOTED OR REQUIRED (SERIES RATED ACCEPTABLE). BOLT ON CIRCUIT BREAKERS. 480V PANELS SAME EXCEPT 25,000A IAC MIN. MINIMUM 20" WIDE W/ GALV STEEL ENCLOSURE W/ HINGED DOOR & KEYS LOCK. COORD TRIM WITH MOUNTING LOCATION. PANELS TO BE RECESSED WHENEVER POSSIBLE.
- B. DISTRIBUTION PANELS SHALL BE CAPACITY SHOWN & SHALL BE SQUARE D I-LINE W/ TIN PLATED COPPER BUSSING. 65KACI MIN OR AS OTHERWISE NOTED/REQ'D. BOLT ON CIRCUIT BREAKERS (SERIES RATED ACCEPTABLE). GALV STEEL ENCLOSURE.
- C. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.

SECTION 16350 - ELECTRICAL IDENTIFICATION

- A. MANUFACTURED LABELS FOR EACH PANELBOARD & TRANSFORMER. TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS
- B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.
- C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.
- D. BRANCH CIRCUITS - IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED W/ INDELEBIL MARKER.

SECTION 16400 - WIRING DEVICES

- A. CONVENIENCE OUTLETS - SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFC RATED DEVICES WHERE INDICATED AND AS REQ'D PER CODE.
- B. PROVIDE GFC RATED DEVICES WHERE INDICATED AND ANYWHERE REQUIRED PER THE NEC.
- C. PROVIDE AFCI PROTECTION ON ALL CIRCUITS REQUIRED PER THE NEC.
- D. PROVIDE TAMPER RESISTANT RECEPTACLES ON ALL RECEPTACLES IN PUBLIC AREAS, AREAS ACCESSIBLE TO CHILDREN, AND WHERE OTHERWISE REQUIRED TO BE TAMPER RESISTANT PER THE NEC.
- E. LIGHT SWITCHES - SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.
- F. WALL MOTION SWITCHES - SPEC GRADE, PIR, OVERRIDE.
- G. CEILING MOTION SWITCHES - SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS AND RELAYS.
- H. WALL MOTION SWITCHES (BATHROOM) - DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.
- I. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.
- J. EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSOPPER, LITHONIA, SENSOR SWITCH.

EXECUTION

- A. ALL OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION.

SECTION 16500 - LED LUMINAIRES

- A. PROVIDE LIGHTING FIXTURES W/ ALL ACCESSORIES REQ'D FOR HANGING. COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & E/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED.
- B. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.
- C. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.
- D. EQUIVALENT LUMINAIRES BY CRE, COOPER, HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXTRONICS, LITEALARM, EXIDE, MULE, DUALITE

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ENT	ENTERING WATER TEMPERATURE	PSI	POUNDS PER SQUARE INCH
AF	ABOVE FINISHED FLOOR	EX	EXISTING ITEM	PVC	POLYVINYLCHLORIDE
AFG	ABOVE FINISHED GRADE	FFA	FROM FLOOR ABOVE	RA	RETURN AIR
AG	ABOVE GRADE	FFB	FROM FLOOR BELOW	RE/REF REFER / REFERENCE	
AHJ	AUTHORITY HAVING JURISDICTION	FFCO	FINISHED FLOOR CLEAN OUT	RF	RELIEF FAN
ARCH	ARCHITECT	FL	FLOOR LINE	RL	RELOCATED ITEM
BFP	BACKFLOW PREVENTER	FLR	FLOOR	RPZ	REDUCED PRESSURE ZONE
BG	BELOW GRADE	FPM	FEET PER MINUTE	RR	RESTROOM
BLDG	BUILDING	FWCO	FLUSH WALL CLEAN OUT	SA	SUPPLY AIR
BMS	BUILDING MANAGEMENT SYSTEM	G	GROUND / GANG	SPD	SURGE PROTECTIVE DEVICE
C	CONDUIT	G/C	GENERAL CONTRACTOR	TA	TRANSFER AIR
CD	CANDELA	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TFA	TO FLOOR ABOVE
CD	COLD DECK	GPM	GALLONS PER MINUTE	TFB	TO FLOOR BELOW
CLG	COOLING	HD	HOT DECK	TP	TAMPERPROOF
CM	COORDINATE MOUNTING HEIGHT	HTG	HEATING	UNO	UNLESS NOTED OTHERWISE
CO	CLEAN OUT	IG	ISOLATED GROUND	VTR	VENT THROUGH ROOF
CTE	CONNECT TO EXISTING	JB	JUNCTION BOX	WP	WEATHERPROOF
DCVA	DOUBLE CHECK VALVE ASSEMBLY	LED	LIGHT EMITTING DIODE		
DCW	DOMESTIC COLD WATER	LWT	LEAVING WATER TEMPERATURE		
DDC	DIRECT DIGITAL CONTROLS	M/C	MECHANICAL CONTRACTOR		
DF	DRINKING FOUNTAIN	MCB	MAIN CIRCUIT BREAKER		
DHW	DOMESTIC HOT WATER	MECH	MECHANICAL		
DHW/R	DOMESTIC HOT WATER RETURN	MHOLE	MANHOLE		
DM	DIAMETER	MLO	MAIN LUGS ONLY		
DN	DOWN	NFA	NET FREE AREA		
E/C	ELECTRICAL CONTRACTOR	OA	OUTSIDE AIR		
EA	EXHAUST AIR	ORD	OVERFLOW ROOF DRAIN		
ELEV	ELEVATION	P/C	PLUMBING CONTRACTOR		
EM	EMERGENCY FIXTURE/DEVICE				

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

- HOME RUN (2#12 1#12G UNO)
- INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR
- HOME RUN: INDICATES SHARED CIRCUIT
- HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

UTILITIES

- UNDERGROUND ELECTRICAL
- OVERHEAD ELECTRICAL
- TELECOMMUNICATIONS CONDUIT
- UNDERGROUND TELECOMMUNICATIONS CONDUIT

LIGHTING

- SURFACE/RECESSED LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- POLE-MOUNTED LIGHT FIXTURE
- TIMECLOCK - REFER TO PLANS / DETAILS

EQUIPMENT

- DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT SWITCH / MOTOR STARTER
- TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
- SURFACE PANELBOARD
- RECESSED PANELBOARD
- DISTRIBUTION PANELBOARD
- SWITCHBOARD, FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

- HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- CONICAL BELLMOUTH ROUND TAKEOFF

- ROUND DUCT RUNOUT WITH FLEX DUCT

- DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)

- RETURN GRILLE OR EXHAUST REGISTER
- SUPPLY AIR FLOW INDICATOR
- RETURN AND EXHAUST AIR FLOW INDICATOR
- THERMOSTAT
- TEMPERATURE SENSOR
- HUMIDISTAT
- CONTROL WIRING

GENERAL SYMBOLS

- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION

PLUMBING FIXTURES/EQUIPMENT

- HOSE BIBB
- WALL HYDRANT
- CLEAN OUT
- REDUCED PRESSURE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PLUMBING FIXTURE AND CALLOUT
- FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK
- RD: ROOF DRAIN
- ORD: OVERFLOW ROOF DRAIN

PLUMBING SYMBOLS

- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- PLUG VALVE
- AUTO FLOW CONTROL VALVE
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE
- PIPING ELBOW
- PIPING TEE UP
- PIPING TEE DOWN
- INCREASER / REDUCER
- UNION
- CAP
- PIPE FLEX
- STRAINER
- CHECK VALVE
- INLINE STRAINER
- TEST PLUG

PIPING SPECIALTIES

- LOW
- PRESSURE REDUCING VALVE



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2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5
2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES
MAY 23, 2023
JUNE 12, 2023-REV 1
JULY 7, 2023-ASI 2
AUGUST 7, 2023-ASI 4
FEB 19, 2024 - ASI 5

SHEET TITLE
MECHANICAL AND
ELECTRICAL
SPECIFICATIONS

PROJECT NUMBER
230117

SHEET NUMBER
ME-101



FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS, AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
- PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
- REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

GENERAL NOTES

- SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
- FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

GEN. MECHANICAL NOTES

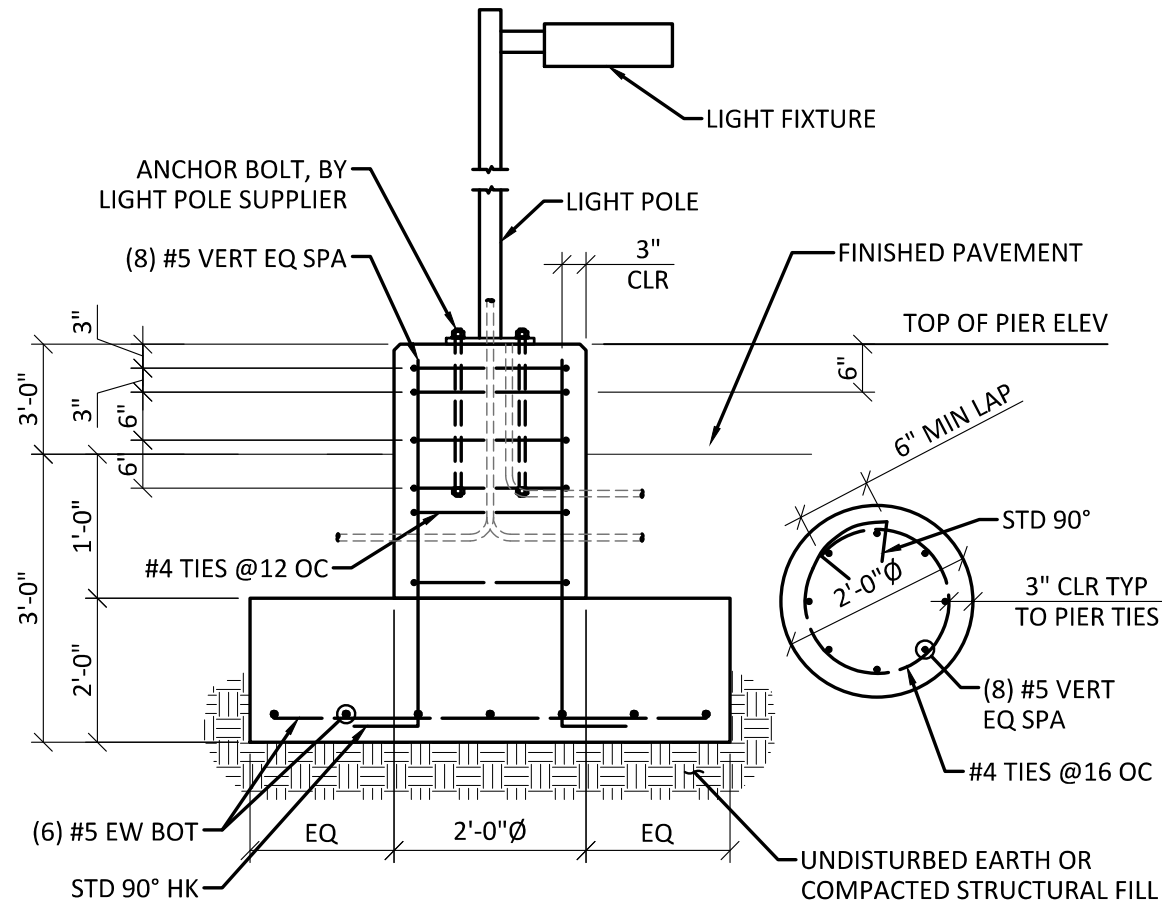
- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
- EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATION IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
- PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
 - IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
 - IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
 - EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES.WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
 - AT THE BASE OF EACH WASTE OR SOIL STACK.
 - NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

COORDINATION NOTES

- COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
- THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISERS AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
- COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
- CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO INSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
- TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
- WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO INSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
- COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
- DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND UNEXPECTED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
- WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
- COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.



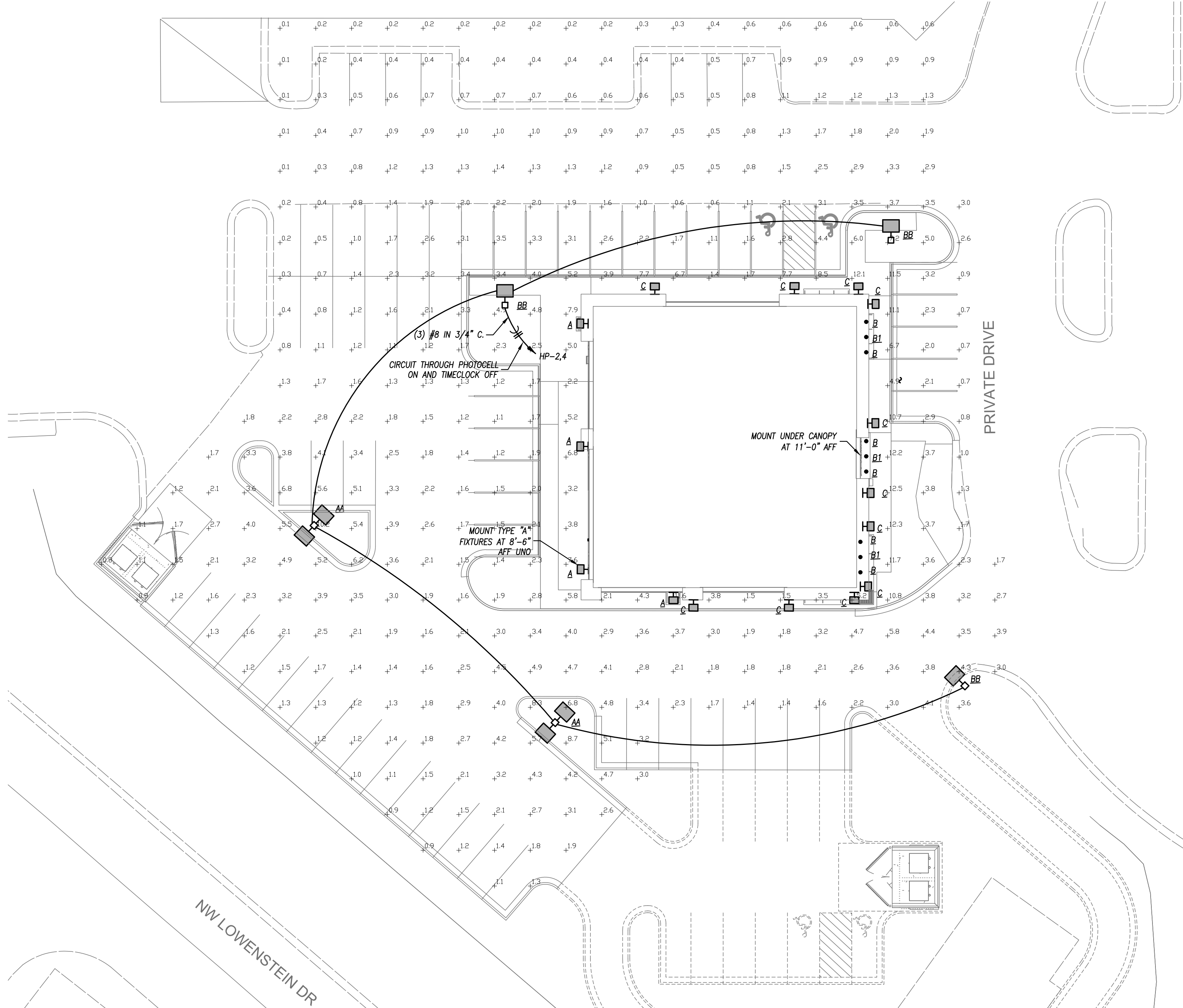
TYPICAL LIGHT POLE BASE DETAIL
SCALE: NONE

LIGHT FIXTURE SCHEDULE

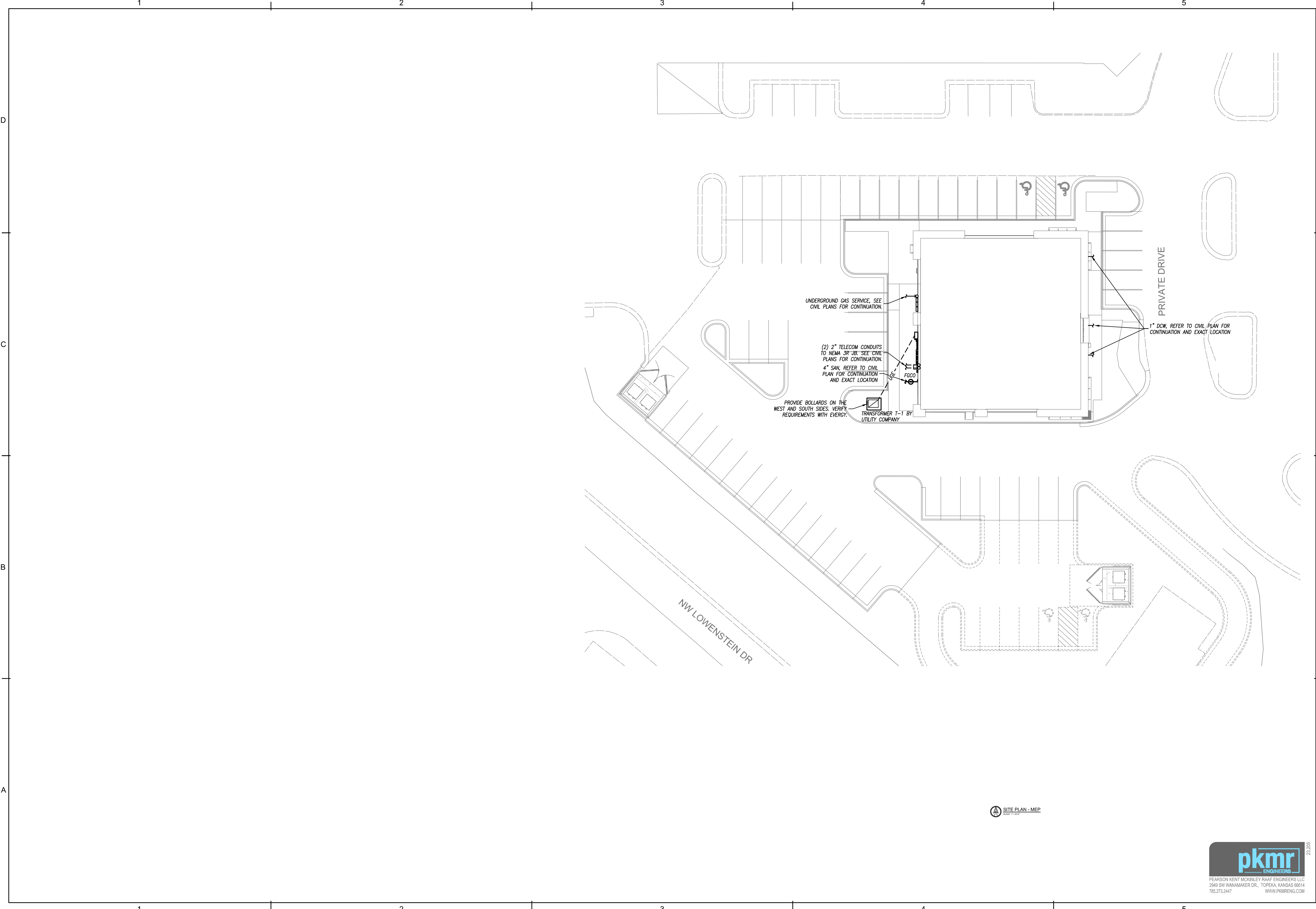
PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH	LAMP CODE	LAMP QUANTITY	NOTES
AA	MCGRAW-EDISON	GALN-SA2C-740-U-T4FT-20180 DEG	20' POLE	BRONZE	216 LED PER HEAD	2	1,2,3,5
BB	MCGRAW-EDISON	GALN-SA2C-740-U-T4FT	20' POLE	BRONZE	216 LED PER HEAD	1	1,2,3,5
A	LITHONIA	WPX1-LED-P2-30K-MVOLT-E14WC-DOBXD	WALL/SURFACE	BRONZE	24W LED	-	1,2
B	GREEN CREATIVE	12NCDRL60IM/930/EXT	RECESSED	BLACK	12W LED	-	1,2,3,6
B1	GREEN CREATIVE	12NCDRL60IM/930/EXT-EM	RECESSED	BLACK	12W LED	-	1,2,3,4,6
C	AFX	BMW517800L30MVBZ	WALL/SURFACE	BRONZE	1,800 LUMENS/19W	-	1,2

NOTES LEGEND

- PROVIDE WET LOCATION RATED FIXTURE
- PROVIDE COLD LOCATION RATED DRIVER
- PROVIDE SQUARE STRAIGHT STEEL POLE RATED FOR 100 MPH WIND GUSTS, PRIMED AND PAINTED TO MATCH FIXTURE
- PROVIDE EMERGENCY BATTERY
- PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION.
- PROVIDE WEATHER PROOF JUNCTION BOX FOR DRIVERS AND ELECTRICAL CONNECTIONS ABOVE SOFFIT.



FILE PATH:
DATE:
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Bryan Leinwetter - Engineer
MO# PE-2020020297

CORE & SHELL BUILDING

STREETS OF WEST PRYOR LOT 5

2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

SUBMISSION DATES
MAY 23, 2023
JUNE 12, 2023-REV 1
JULY 7, 2023-ASI 2
AUGUST 7, 2023-ASI 4
FEB 19, 2024 - ASI 5/6

SHEET TITLE
SITE MEP PLAN

PROJECT NUMBER
230117

SHEET NUMBER
ME-202

 SITE PLAN - MEP
SCALE: 1"=20'



PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
2949 SW WANAMAKER DR., TOPEKA, KANSAS 66614
785.273.2447
WWW.PKMRENG.COM

PANELBOARD SCHEDULE												
PANEL DESIGNATION	MAIN BUS AMPS: 400		VOLTAGE: 120/208V		MOUNTING: RECESSED		LOCATION: SEE PLAN					
P2	MAIN BREAKER: 400		PHASE/WIRE: 3PH/4W		MOUNTING: RECESSED		LOCATION: SEE PLAN					
PANEL TYPE:	N00D											
CIRCUIT DESCRIPTION	CT	BKR	CT	CT	CT	BKR	CIRCUIT DESCRIPTION					
	P	AMP	NO.	NO.	AMP	P						
ROOF RECEPTACLES	1	20	1	2	40	3	RTU-4					
SPARE	1	20	3	4	-	-						
SPARE	1	20	5	6	-	-						
SPARE	1	20	7	8	35	3	RTU-6					
SPARE	1	20	9	10	--	--						
SPARE	1	20	11	12	--	--						
SPARE	1	20	13	14	20	1	SPARE					
SPARE	1	20	15	16	20	1	SPARE					
SPARE	1	20	17	18	20	1	SPARE					
SPARE	1	20	19	20	20	1	SPARE					
SPARE	1	20	21	22	20	1	SPARE					
SPARE	1	20	23	24	20	1	SPARE					
SPARE	1	20	25	26	20	1	SPARE					
SPARE	1	20	27	28	20	1	SPARE					
SPARE	1	20	29	30	20	1	SPARE					
SPARE	1	20	31	32	20	1	SPARE					
SPARE	1	20	33	34	20	1	SPARE					
SPARE	1	20	35	36	20	1	SPARE					
SPARE	1	20	37	38	20	1	SPARE					
SPARE	1	20	39	40	20	1	SPARE					
SPARE	1	20	41	42	20	1	SPARE					
SPARE	1	20	43	44	20	1	SPARE					
SPARE	1	20	45	46	20	1	SPARE					
SPARE	1	20	47	48	20	1	SPARE					
SPARE	1	20	49	50	20	1	SPARE					
SPARE	1	20	51	52	20	1	SPARE					
SPARE	1	20	53	54	20	1	SPARE					
SPARE	1	20	55	56	20	1	SPARE					
SPARE	1	20	57	58	20	1	SPARE					
SPACE			61	62			SPACE					
SPACE			63	64			SPACE					
SPACE			65	66			SPACE					

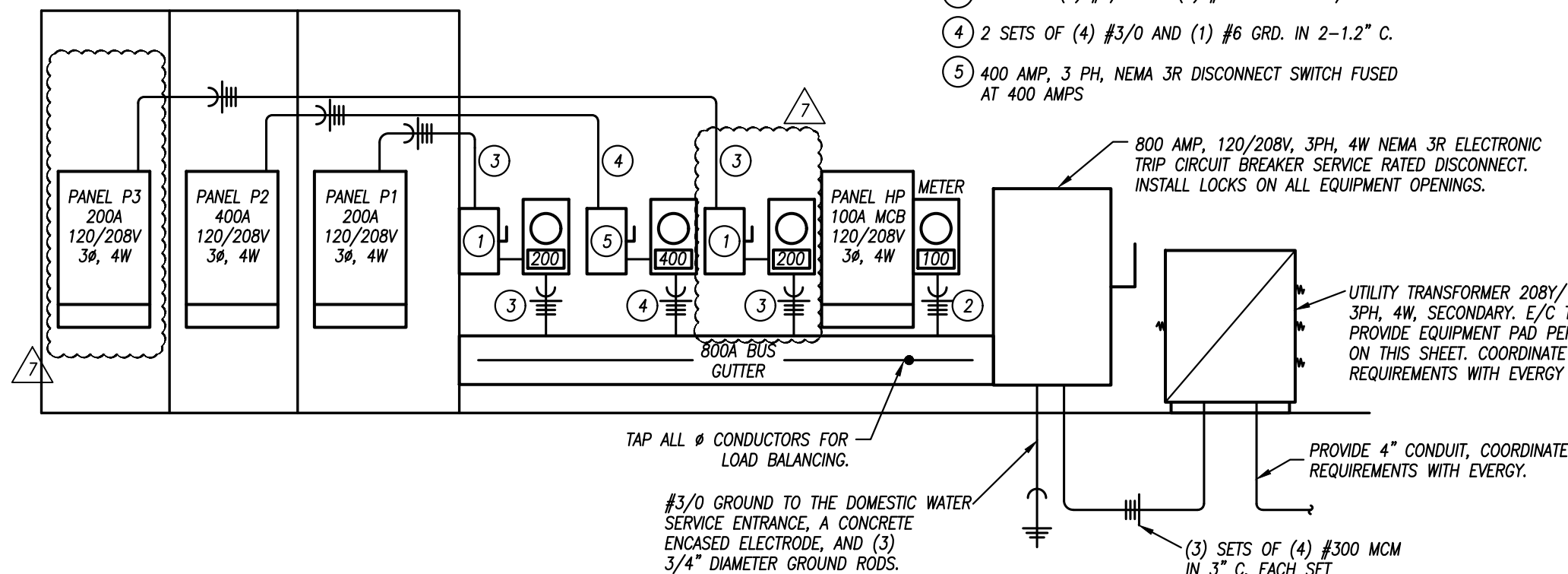
PANELBOARD SCHEDULE												
PANEL DESIGNATION	MAIN BUS AMPS: 200		VOLTAGE: 120/208V		MOUNTING: RECESSED		LOCATION: SEE PLANS					
P1	MAIN BREAKER: 200		PHASE/WIRE: 3PH/4W		MOUNTING: RECESSED		LOCATION: SEE PLANS					
PANEL TYPE:	N00D						MINIMUM AIC: 22K					
CIRCUIT DESCRIPTION	CT	BKR	CT	CT	CT	BKR	CIRCUIT DESCRIPTION					
	P	AMP	NO.	NO.	AMP	P						
SPARE	1	20	1	2	35	3	RTU-1					
SPARE	1	20	3	4	-	-						
SPARE	1	20	5	6	-	-						
SPARE	1	20	7	8	35	3	RTU-2					
SPARE	1	20	9	10	-	-						
SPARE	1	20	11	12	-	-						
SPARE	1	20	13	14	20	1	ROOF RECEPTACLES					
SPARE	1	20	15	16	20	1	SPARE					
SPARE	1	20	17	18	20	1	SPARE					
SPARE	1	20	19	20	20	1	SPARE					
SPARE	1	20	21	22	20	1	SPARE					
SPARE	1	20	23	24	20	1	SPARE					
SPARE	1	20	25	26	20	1	SPARE					
SPARE	1	20	27	28	20	1	SPARE					
SPARE	1	20	29	30	20	1	SPARE					
SPARE	1	20	31	32	20	1	SPARE					
SPARE	1	20	33	34	20	1	SPARE					
SPARE	1	20	35	36	20	1	SPARE					
SPARE	1	20	37	38	20	1	SPARE					
SPARE	1	20	39	40	20	1	SPARE					
SPARE	1	20	41	42	20	1	SPARE					

PANELBOARD SCHEDULE												
PANEL DESIGNATION	MAIN BUS AMPS: 100		VOLTAGE: 120/208V		MOUNTING: SURFACE		LOCATION: EXTERIOR					
HP	MAIN BREAKER: 100A		PHASE/WIRE: 3PH/4W		MOUNTING: SURFACE		LOCATION: EXTERIOR					
PANEL TYPE:	NEMA 3R						MINIMUM AIC: 22K					
CIRCUIT DESCRIPTION	CT	BKR	CT	CT	CT	BKR	CIRCUIT DESCRIPTION					
	P	AMP	NO.	NO.	AMP	P						
IRRIGATION CONTROLLER	1	20	1	2	20	2	SITE LTG: PARKING LOT					
SPARE	1	20	3	4	-	-						
SPARE	1	20	5	6	20	2	SITE LTG: WALL MOUNTED					
SPARE	1	20	7	8	-	-						
SPARE	1	20	9	10	20	1	SITE LTG: CANOPIES					
SPARE	1	20	11	12	20	1	SPARE					
SPARE	1	20	13	14	20	1	SPARE					
SPARE	1	20	15	16	20	1	SPARE					
SPARE	1	20	17	18	20	1	SPARE					
SPARE	1	20	19	20	20	1	SPARE					
SPACE			21	22			SPACE					
SPACE			23	24			SPACE					
SPACE			25	26			SPACE					
SPACE			27	28			SPACE					
SPACE			29	30			SPACE					

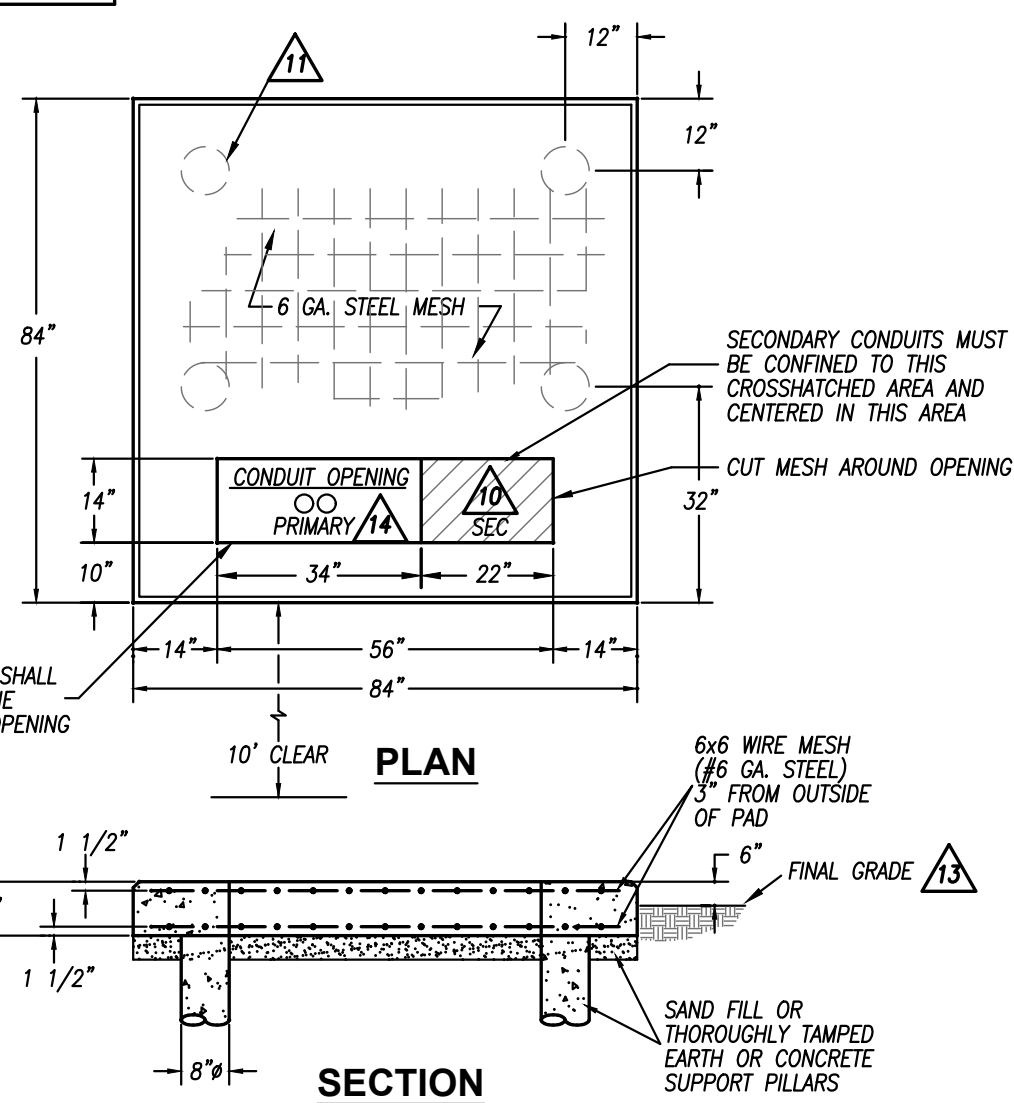
NOTES:
NEMA 3R RATED PANEL WITH LOCKABLE COVER

ELECTRICAL RISER KEYED NOTES

- 200 AMP, 3 PH, NEMA 3R DISCONNECT SWITCH FUSED AT 200 AMP
- (4) #1 AND (1) #6 GRD. IN 1-1/2" C.
- 1 SET OF (4) #3/0 AND (1) #6 GRD. IN 2-1/2" C.
- 2 SETS OF (4) #3/0 AND (1) #6 GRD. IN 2-1/2" C.
- 400 AMP, 3 PH, NEMA 3R DISCONNECT SWITCH FUSED AT 400 AMPS



ELECTRICAL RISER DIAGRAM
NO SCALE

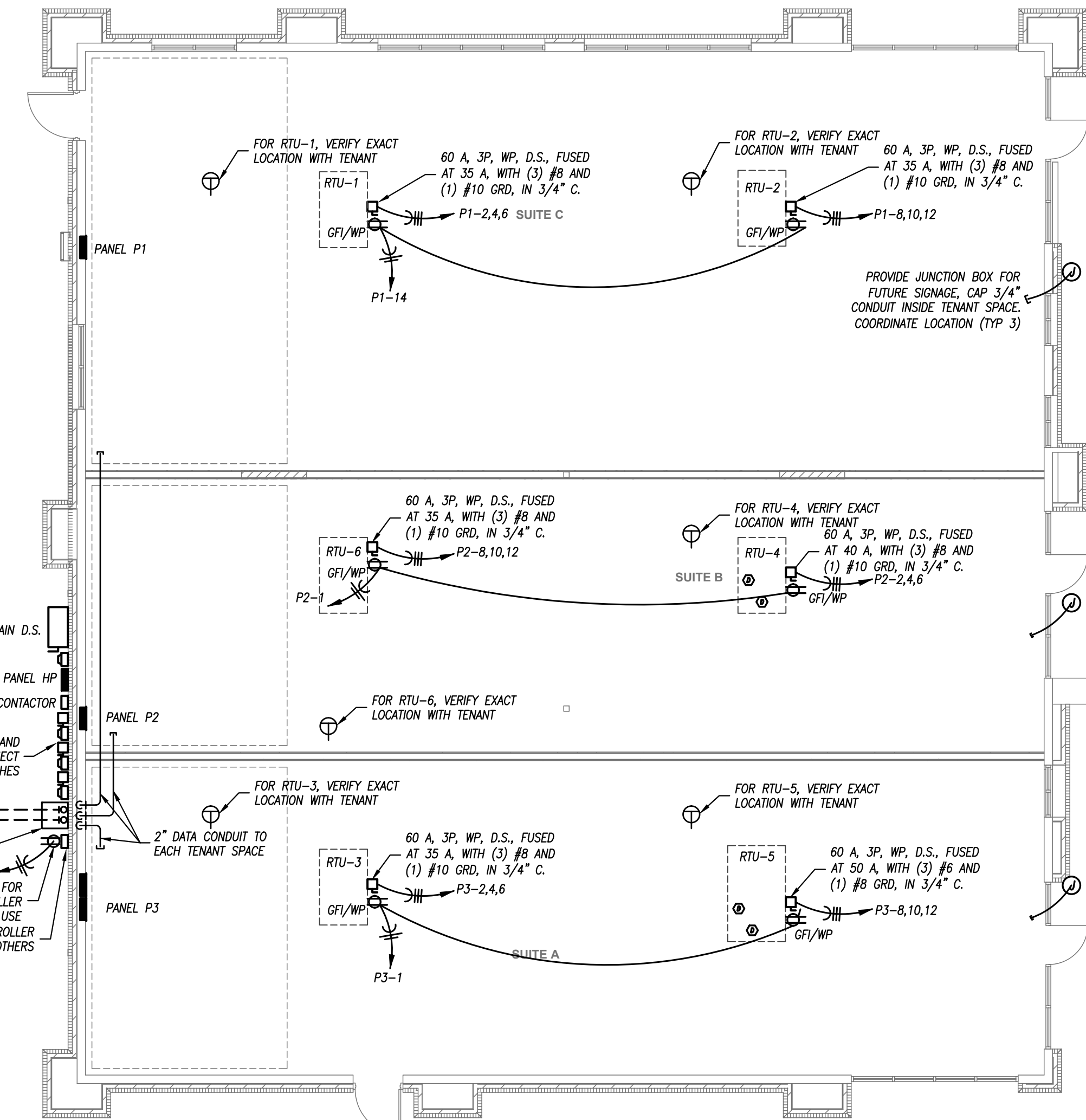


ELECTRICAL TRANSFORMER PAD DETAIL
NO SCALE 75-500 KVA

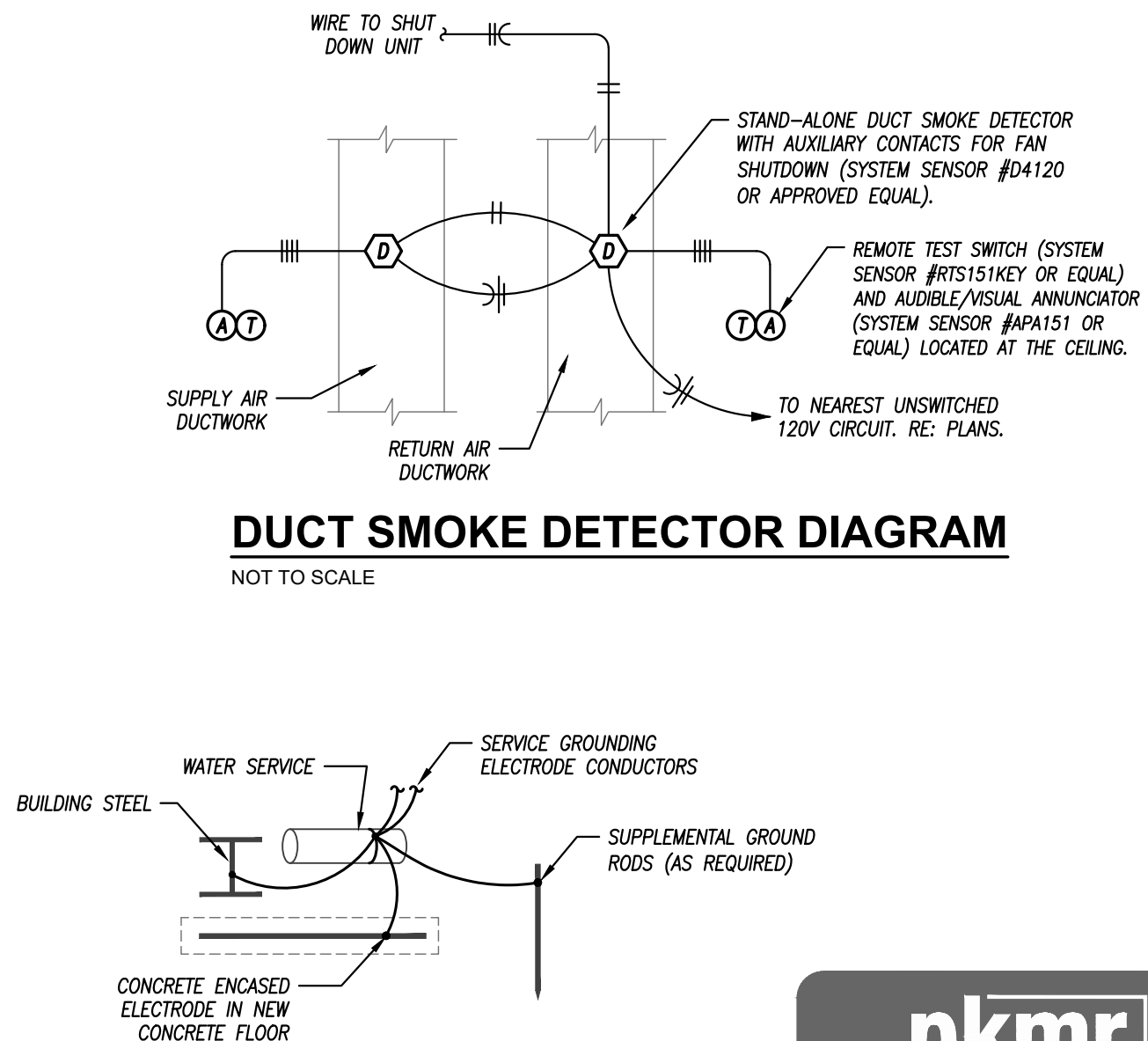
NOTES:

- THE PAD LOCATION SHALL BE APPROVED BY EVERY
- TRANSFORMER SHALL BE INSTALLED NEAR THE CUSTOMER'S SERVICE ENTRANCE
- IF THE TRANSFORMER PAD IS INSTALLED IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE INSTALLATION SHALL BE PROTECTED WITH A PIPE-RAIL GUARD
- FOR PROPER CLEARANCE AROUND THE TRANSFORMER, REFER TO EVERY STANDARDS
- CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3\"/>

- NUMBER OF CONDUITS NECESSARY IS DEPENDENT ON THE MAXIMUM NUMBER OF SERVICE CONDUCTORS ALLOWED IN THE LOW-VOLTAGE COMPARTMENT OF THE TRANSFORMER. INSTALL 1\"/>
- PILLARS ARE FORMED BY AUGERING AN 8\"/>
- EVERGY RESERVES THE RIGHT NOT TO ACCEPT THE CONDITION OF THE CONCRETE PAD IF IT FAILS TO MEET THE REQUIREMENTS STATED IN THEIR STANDARD
- THE 6\"/>
- CONDUIT OPENING DIMENSIONS PERTAIN TO HOWARD (2012 AND NEWER) TRANSFORMERS. CHECK WITH EVERY LOCAL SERVICE CENTER TO BE SURE THAT THE OPENING IS THE CORRECT SIZE FOR THE TRANSFORMER DESIGNATED FOR THE JOB
- VERIFY PAD REGULATIONS WITH EVERY



FLOOR PLAN - POWER
SCALE: 1/8\"/>



GROUNDING ELECTRODE SYSTEM
N.T.S.

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PROFESSIONAL ENGINEER
NUMBER PE-2020020297
Bryan Leinweiter, Engineer
MO# PE-2020020297

CORE & SHELL BUILDING
STREETS OF WEST PRYOR LOT 5
2070 NW LOWENSTEIN DR, LEES SUMMIT, JACKSON COUNTY, MISSOURI 64081

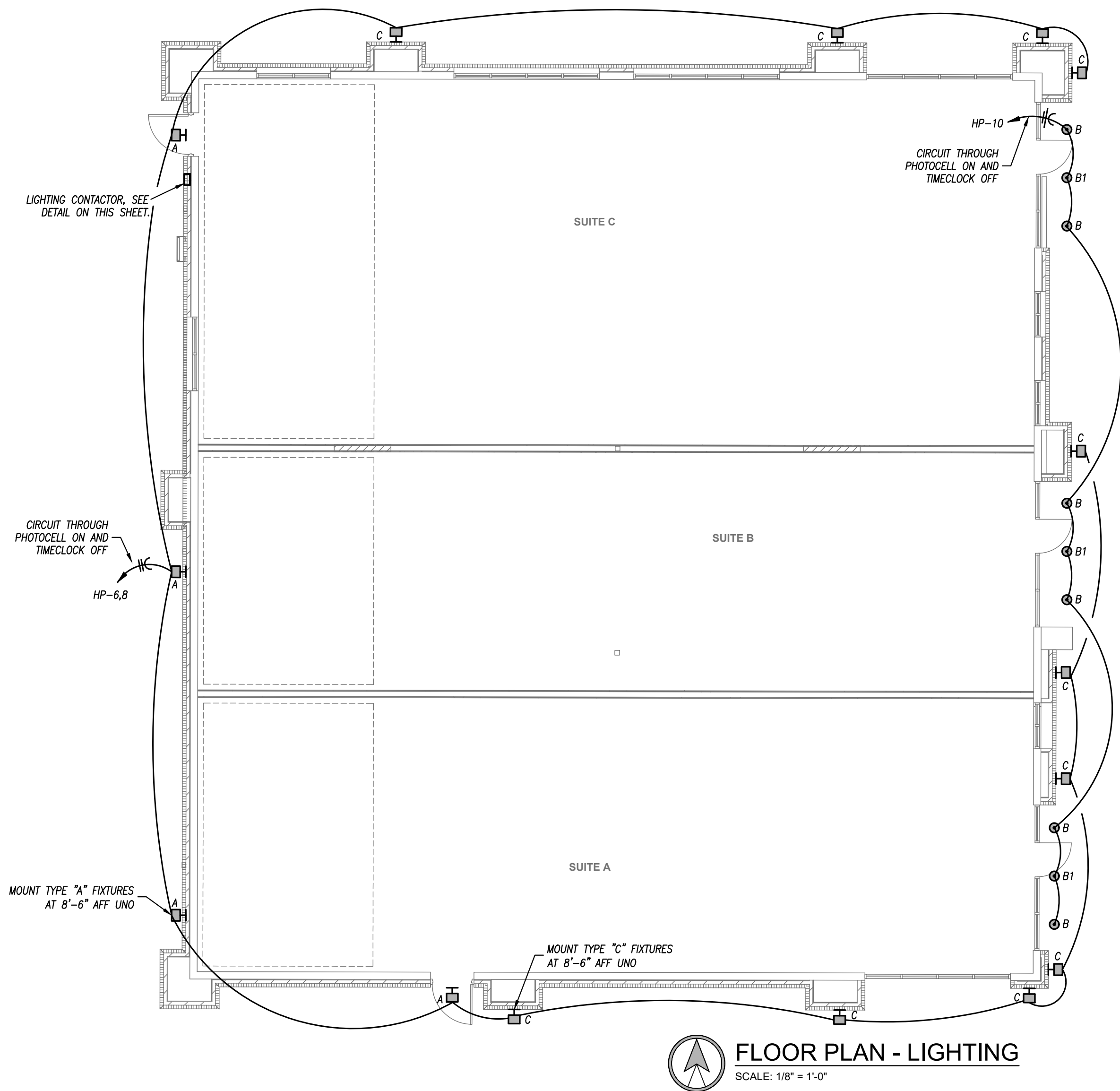
SUBMISSION DATES	
JUNE 12, 2023-REV 1	
JULY 7, 2023-ASI 2	
AUGUST 7, 2023-ASI 4	
FEB 19, 2024 - ASI 5	
MARCH 13, 2024 - ASI 6	

SHEET TITLE
POWER FLOOR PLAN

PROJECT NUMBER
230117

SHEET NUMBER
E-101

pkmr
ENGINEERS
PEARSON KENT MCKIN



 **FLOOR PLAN - LIGHTING**
SCALE: 1/8" = 1'-0"