



\*RENDERING FOR ILLUSTRATIVE PURPOSES ONLY

# Saint Luke's

## EAST HOSPITAL

### ASC EXPANSION & RENOVATION GRADING, FOOTING, AND FOUNDATION PACKAGE 120 NE Saint Luke's Blvd Lee's Summit, MO 64086

## PROJECT TEAM

#### ARCHITECT ACI BOLAND, INC.

1710 WYANDOTTE STREET  
KANSAS CITY, MO 64108

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FAX 816.763.9757

#### CIVIL ENGINEER BHC

7101 College Blvd., Suite 400  
Overland Park, KS 66210

PHONE 913.663.1900

#### STRUCTURAL ENGINEER Structural Engineering Associates, Inc.

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PHONE 816.421.1042  
FAX 816.421.1061

#### MEP CONSULTANT IMEG

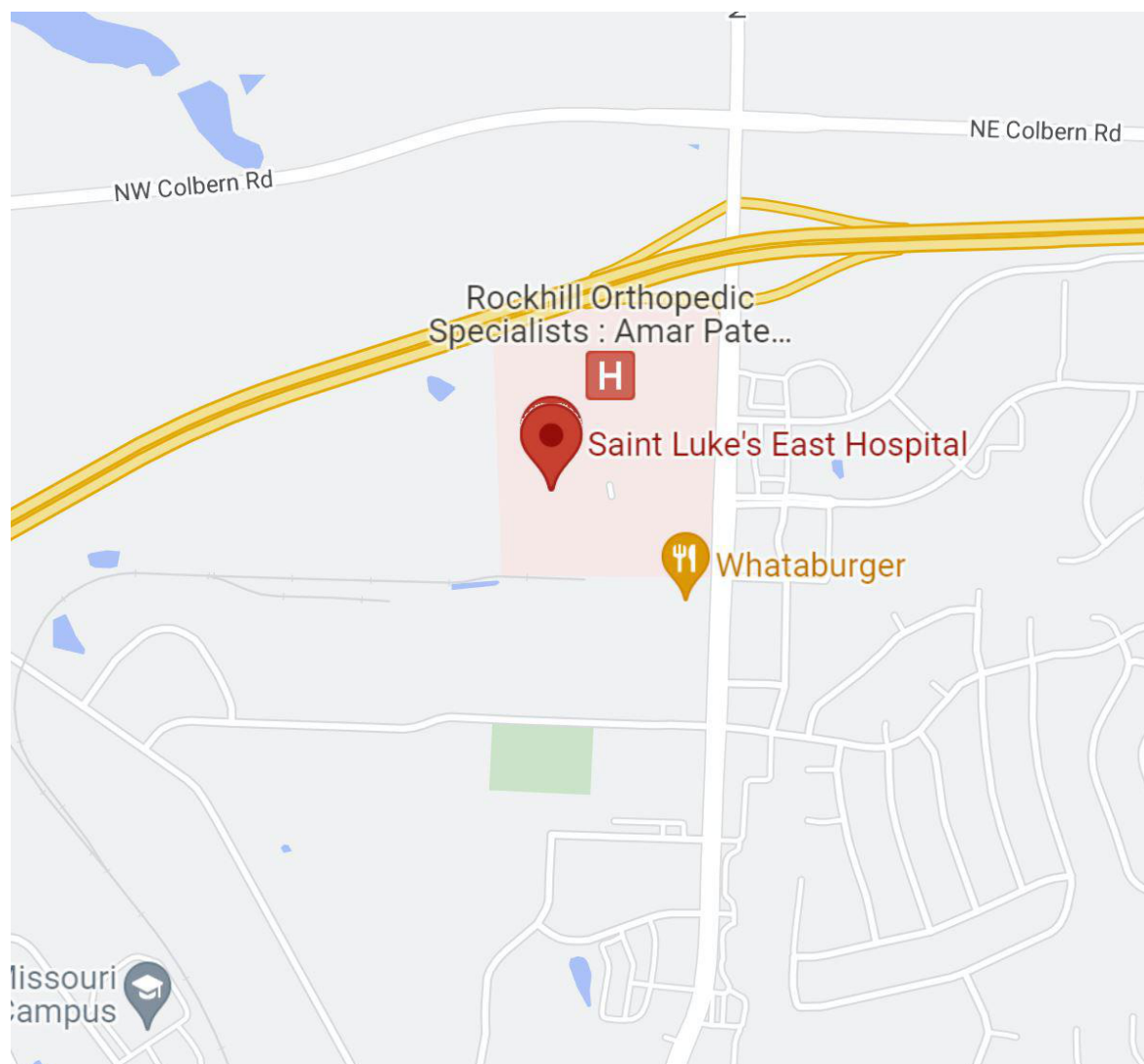
1600 Baltimore Ave, Suite 300  
Kansas City, MO 64108

PHONE 816.842.8437

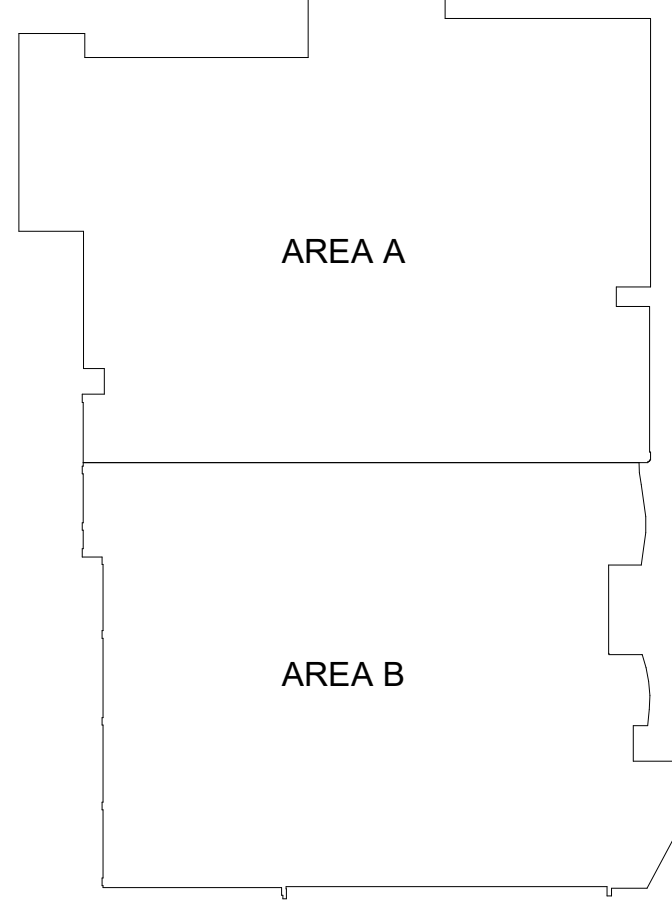
#### ABBREVIATIONS

AC.	ACOUSTIC/ACOUSTICAL	FLOR.	FLUORESCENT	PTD.	PAINTED
ADD.	ADDENDUM	FTG.	FOOTING	PG.	PAGE
ADDN.	ADDITION	FND.	FOUNDATION	PLAM.	PLASTIC LAMINATE
ABC.	AGGREGATE BASE COURSE	FR.	FRAME	PR.	PAIR
AFF.	ABOVE FINISH FLOOR	F.H.C.	FIRE HOSE CAB.	PNL.	PANEL
AGG.	AGGREGATE	FV.	FIELD VERIFY	PTN.	PARTITION
AIC.	AIR CONDITIONING	GA.	GAUGE	d	PENNY
AL.	ALUMINUM	GL.	GLASS / GLAZING	PL.	PLATE
ALT.	ALTERNATE	GR.	GRADE	PLB.G.	PLUMBING
A.B.	ANCHOR BOLT	GD.	GRAM	PLYWD.	PLYWOOD
A.	AND	G.	GRAM	PT.	POINT
ARCH.	ARCHITECT	GRL.	GRILLE	P.S.I.	POUNDS PER SQ. IN.
ASP.	ASPHALT	GRD.	GRID	P.S.F.	POUNDS PER SQ. FT.
Ø	AT	OND.	GROUND	P.C.	PRECAST
ACT	ACOUSTIC CEILING TILE/PANEL	G.S.	GALVANIZED STEEL	P.L.	PROPERTY LINE
∠.	ANGLE	GYP.	GYPSPUM		
		OWB/G.B.	GYPSPUM BOARD		
BLKG.	BLOCKING	H.R.	HAND RAIL	R.	RISER, RISERS
BSMT.	BASEMENT	HDN.	HARDENER	RAD.	RADIUS
BM.	BEAM	HDW.	HARDWARE	R.D.	ROOF DRAIN
B.M.	BENCHMARK	HDWD.	HARDWOOD	RB.	RESILIENT BASE
BD.	BOARD	HTR.	HEATER	RE.	REFER TO
B.O.	BOTTOM OF	HT.	HEIGHT	REG.	REGISTER
BLDG.	BUILDING	H.P.	HIGH POINT	REQD.	REQUIRED
		H.M.	HOLLOW METAL	REV.	REVISION
CABT.	CABINET	HORIZ.	HORIZONTAL	RFG.	ROUGH
C.I.P.	CAST IN PLACE	H.B.	HOSE BIB	RM.	ROOM
C.B.	CATCH BASIN	H.W.	HOT WATER	RND.	ROUND
CLG.	CEILING			R.O.	ROUGH OPENING
CEM.	CEMENT/CEMENTITIOUS				
CC.	CENTRIGRAM				
CM	CENTIMETER				
CL.	CENTER LINE				
CER.	CERAMIC				
C.T.	CERAMIC TILE				
CHAN.	CHANNEL				
CHL.	CLEAR				
C.O.	CLEAN OUT				
CLOS.	CLOSET				
COL.	COLUMN				
CONC.	CONCRETE				
CONN.	CONNECTION				
CONST.	CONSTRUCTION				
C.J.	CONTROL JOINT				
	CONSTRUCTION JOINT				
CONT.	CONTINUOUS				
CONTR.	CONTRACTOR				
CORP.	CORRUGATED				
CTR.	COUNTER				
CTSK.	COUNTERSUNK				
C.M.U.	CONCRETE MASONRY UNIT				
D.P.	DAMP PROOFING				
DB.	DECIBEL				
DIAG.	DIAGONAL				
DIAM.	DIAMETER				
DM.	DIMENSION				
DISP.	DISPENSER				
DWL.	DOWEL				
DN.	DOWN				
D.S.	DOWNSPOUT				
DWG.	DRAWING				
EA.	EACH				
ELEC.	ELECTRIC				
E.W.C.	ELECTRIC WATER COOLER				
EL.	ELEVATION				
ELEV.	ELEVATOR				
EQ.	EQUAL				
EQUIP.	EQUIPMENT				
EXH.	EXHAUST				
EXPAN.	EXPANSION				
E.J.	EXPANSION JOINT				
EXIST.	EXISTING				
EXT.	EXTERIOR				
FT.	FEET / FOOT				
FIN.	FINISH				
FKT.	FIXTURE				
FL.	FLASHING				
FLR.	FLOOR				
F.D.	FLOOR DRAIN				

#### LOCATION PLAN



#### KEY PLAN



KEY PLAN - FIRST FLOOR ASC  
1" = 60'-0"

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C201	SITE PLAN - PARKING EXPANSION
C202	DIMENSION PLAN - BUILDING EXPANSION
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S0.1	FOUNDATION DEMO PLAN AND DETAILS
S01.0	FOUNDATION AND FIRST LEVEL PLAN
S1.0	FOUNDATION DETAILS
S2.0	FOUNDATION DETAILS
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S2.2	FOUNDATION DETAILS
S2.3	ENLARGED STAIR/ELEVATOR PLAN AND DETAILS
S2.4	CANOPY PLANS AND DETAILS
S2.5	TRASH ENCLOSURE PLAN AND DETAILS
S2.6	DRILLED PIER AND COLUMN SCHEDULE



**EAST HOSPITAL**  
**ASC EXPANSION & RENOVATION**  
**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date 12/22/2022  
Job Number 3-21037  
Drawn By CN  
Checked By Checker

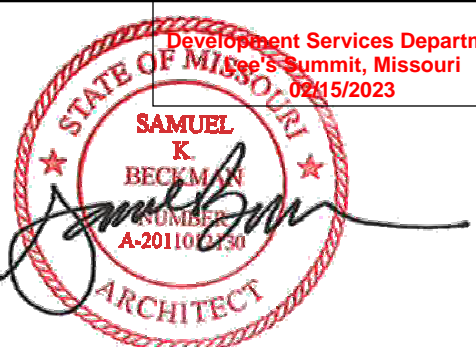
Revision  
Number Date Description

GRADING, FOOTING, AND FOUNDATION PACKAGE

CVR

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COVER SHEET



Samuel K. Beckman - Architect  
License - Missouri #A-2011012130



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1710 Wyandotte  
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Licensee's Certificate of Authority Number:  
Missouri: #000958

#### CIVIL CONSULTANT

BHC

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Licensee's Certificate of Authority Number:  
#001355

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CONSTRUCTION  
DOCUMENTS





A2 FIRST FLOOR - ASC CODE PLAN  
1/16" = 1'-0"



## CODE SUMMARY

**Project Construction Purpose:** New 3 story addition and partial renovation of existing ASC building.

**Project Address:**  
Saint Luke's East Hospital  
120 NE Saint Luke's Blvd  
Lee's Summit, MO 64063

**Code Information**  
2018 International Building Code  
2018 International Plumbing Code  
2018 International Mechanical Code  
2017 National Electrical Code (NFPA 70)  
2018 International Fire Code  
2012 Life Safety Code (NFPA 101 Chapter 20)  
2009 ICC/ANSI A117.1 as amended and adopted by the City of Lee's Summit  
2010 ADA Standards for Accessible Design / Americans with Disabilities Act of 1990

**State of Missouri Dept. of Health & Environment references the following codes:**  
2012 NFPA 101 Life Safety Code (LSC)  
2018 FGI Guidelines for Design & Construction of Hospitals & Outpatient Facilities

**Note:** If code requirements overlap, the most stringent shall apply.

**Owner Information**  
Saint Luke's East Hospital  
120 NE Saint Luke's Blvd  
Lee's Summit, MO 64063

**Designer Information**  
ACI Boland Architects  
1710 Wyandotte St.  
Kansas City, MO 64108  
Phone: (816) 763-9600

**Local Authority**  
Responding Fire Service: Lee's Summit Fire Department  
Local Building Inspection: Lee's Summit, MO -Codes Administration Department

**Type of Construction:** I-A

**Area of Renovation and Addition**  
1st floor addition 18,000+/- SF  
1st floor renovation 23,601+/- SF  
2nd floor addition 16,700+/- SF  
2nd floor renovation 28,089+/- SF  
3rd floor addition 27,514+/- SF  
Total addition 62,214+/- SF  
Total renovation 51,699+/- SF  
Total sf of new construction: 113,913+/- SF

**Occupancy Group:** B - Ambulatory Healthcare  
**Max Travel Distance:** 200' (NFPA 101 20.2.6.2.1)

**Occupant Load:** 1505F/OCC (table 1004.5)  
1st floor: 47,801/150 = 319  
2nd floor: 44,788/150 = 299  
3rd floor: 27,514/150 = 184  
Total Number of Occupants = 799

**Required Fire Resistance Ratings (in hours)**  
**Per NFPA 101 A.5.2.1.2:**  
Exterior Bearing Walls 3 HR  
Interior Bearing Walls 3 HR  
Primary Structural Frame 3 HR  
Floor Construction 1 1/2 HR  
Interior Non-bearing Walls 2 HR  
Shaft Enclosure 2 HR

**Fire Separation (Table 608.4)**  
Fire Separation between tenants 2 HR  
1 HR separation between tenants B-B

**Active Fire Safety Features:**  
- Fire Alarm System - The fire alarm system is specified as an addressable type system. The device type and locations are per the applicable codes as well as ADA requirements.  
- Smoke Control System - All ductwork penetrating smoke rated walls will have a smoke or combination fire/smoke damper as indicated on construction documents. These dampers will close upon detection of smoke by the area smoke detectors or dust smoke detectors in the air handling units.  
- Fire Sprinkler System - Specified to be per NFPA 13. The sprinkler heads are specified to be quick response type.  
- Emergency Lighting and Power - Emergency lighting, life safety and critical loads will receive power from a backup generator located outside the main electrical room.  
- Illuminated Exit Signs

**Passive Fire Safety Features:**  
- Smoke Compartments no greater than 22,500 SF

## CODE FOOTPRINT LEGEND

- PARTITION TYPES**
- 0 HR SMOKE PARTITION (SMOKE RESISTIVE)
  - 1 HR SMOKE BARRIER
  - 1 HR FIRE BARRIER
  - 2 HR FIRE BARRIER
  - 2 HR FIRE SMOKE BARRIER
  - 3 HR FIRE BARRIER
- AREA DESIGNATIONS**
- CORRIDOR
  - HAZARDOUS ROOM
  - EXIT ENCLOSURE
  - SHAFT
- BOUNDARY DESIGNATIONS**
- SMOKE COMPARTMENT
  - 1 HR SMOKE BARRIER
  - NOT IN ARCHITECTURAL SCOPE
- SYMBOLS**
- FIRE EXIT
  - OCCUPANT LOAD
  - EXIT WIDTH PROVIDED
  - EXIT WIDTH REQUIRED
  - NEW FIRE EXTINGUISHER CABINET
  - EXISTING FIRE EXTINGUISHER CABINET
  - EXIT SIGN
  - FIRE DOOR RATING
  - TRAVEL DISTANCE
  - FIRE/SMOKE DAMPER
  - SMOKE DETECTOR
  - HEAT DETECTOR

**Saint Luke's**

EAST HOSPITAL

ASC EXPANSION & RENOVATION

100 NE Saint Luke's Blvd

Lee's Summit, MO 64086

Date 01/16/2023  
Job Number 3-21037  
Drawn By Author  
Checked By Checker

Revision  
Number Date Description

CONSTRUCTION DOCUMENTS  
A021  
© 2023 ACI/BOLAND, Inc.  
FIRST FLOOR CODE FOOTPRINT PLAN

\*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.





A5 THIRD FLOOR - MULTISPECIALTY CODE PLAN  
1/16" = 1'-0"

A2 SECOND FLOOR - ROCKHILL CODE PLAN  
1/16" = 1'-0"

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## CODE SUMMARY

**Project Construction Purpose:** New 3 story addition and partial renovation of existing ASC building.

**Project Address:**  
Saint Luke's East Hospital  
120 NE Saint Luke's Blvd  
Lee's Summit, MO 64093

**Code Information**  
2018 International Building Code  
2018 International Plumbing Code  
2018 International Mechanical Code  
2017 National Electrical Code (NFPA 70)  
2018 International Fire Code  
2012 Life Safety Code (NFPA 101 Chapter 20)  
2009 ICC/ANSI A117.1 as amended and adopted by the City of Lee's Summit  
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Note: If code requirements overlap, the most stringent shall apply.

**Owner Information**  
Saint Luke's East Hospital  
120 NE Saint Luke's Blvd  
Lee's Summit, MO 64093

**Designer Information**  
ACI Boland Architects  
1710 Wyandotte St.  
Kansas City, MO 64108  
Phone: (816) 763-9600

**Local Authority**  
Responding Fire Service: Lee's Summit Fire Department  
Local Building Inspection: Lee's Summit, MO - Codes Administration Department

**Type of Construction:** I-A

**Area of Renovation and Addition**  
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Total Number of Occupants = 761

**Required Fire Resistance Ratings (in hours)**  
Per NFPA 101 A.2.2.1.4:

Exterior Bearing Walls	3 HR
Interior Bearing Walls	3 HR
Primary Structural Frame	3 HR
Floor Construction	2 HR
Roof Construction	1 1/2 HR
Interior Non-bearing Walls	2 HR
Shaft Enclosure	2 HR

**Fire Separation (table 608.4)**  
2 HR separation between tenants (2-B)  
1 HR separation between tenants (B-B)

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  - FIRE DOOR RATING
  - TRAVEL DISTANCE
  - FIRE/SMOKE DAMPER
  - SMOKE DETECTOR
  - HEAT DETECTOR

RELEASED FOR CONSTRUCTION  
AS NOTED BY THE ARCHITECT

SAMUEL K. BECKMAN  
ARCHITECT

1/16/2023

Samuel K. Beckman - Architect  
License - Missouri #A-201102130

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ARCHITECTS

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**Saint Luke's**  
EAST HOSPITAL  
ASC EXPANSION & RENOVATION  
100 NE Saint Luke's Blvd  
Lee's Summit, MO 64086

Date 01/16/2023  
Job Number 3-21037  
Drawn By Author  
Checked By Checker

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CONSTRUCTION DOCUMENTS

A022

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SECOND AND THIRD FLOOR CODE  
FOOTPRINT PLAN



Jan 11, 2023 -- 12:10pm Printed By: kurt.yoder V:\033570-01\_lee's east\04-dwg\Eng\Sheet\FDP\033570-SHFS-CORR.dwg Layout: Cover Sheet

# FINAL DEVELOPMENT PLAN

## SAINT LUKE'S EAST HOSPITAL - ASC EXPANSION & RENOVATION

### LEE'S SUMMIT, MO 64086

100 NE SAINT LUKE'S BLVD.

#### GENERAL NOTES

1. All work in public easement and Right-of-Way shall be installed per the requirements and specifications of the City of Lee's Summit, Missouri.
2. All existing topographic, survey, and utility information shown was provided to BHC in the form of an Topographic Survey prepared by BHC and dated July 12, 2022. Contractors shall satisfy themselves as to the existing conditions of the site and have all utilities located prior to commencing construction.
3. The Contractor shall be required to obtain all Federal, State, and Local permits required for this project prior to commencing construction.
4. Any work adjacent to or crossing existing streets requires proper traffic control devices. Traffic control devices shall be placed in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).
5. The contractor shall be required to demolish, remove and dispose of all existing structures, pavements, and features necessary to construct the improvements shown hereon. Any waste materials generated during construction shall be removed from the site by the Contractor and disposed of in accordance with all local, State, and Federal regulations governing such disposal.
6. The contractor shall prevent any trash, debris, or liquid wastes from being disposed of in sanitary sewers, storm sewers, or open drainage systems.
7. The Contractor shall be solely responsible to protect adjacent property, structures, and other improvements from damage during construction. In the event of damage to adjacent property, structures, or improvements, the contractor shall repair or replace such damage to the Owner's satisfaction at the Contractor's expense.
8. Contractors at the site shall be solely responsible for jobsite safety for all aspects of work shown hereon.
9. All work and materials used in the construction of the improvements shown hereon shall comply with all referenced standards, specifications, and plan notes.
10. All buildings are shown as a reference only. All buildings shall be located and constructed per the Architectural drawings prepared by others.
11. Contractor shall be responsible for contacting all utility companies for field locations of underground utilities affected by the contract. All existing utilities indicated on these plans are according to the best information available to the engineer; however, all utilities actually existing may not be shown. Utilities damaged through the negligence of the contractor to obtain the location of same shall be repaired or replaced at the expense of the contractor.
12. Coordinate with facility representative as to when construction activities may be performed to work with the operations of the facility.
13. Any and all hazards shall be properly identified and barricaded from access during all non-construction periods.
14. A Right-of-Way permit is required from the City of Lee's Summit, Missouri Public Works Department for any work within the public right-of-way.

#### UTILITY CONTACTS

**PLANNING AND DEVELOPMENT**  
**CITY HALL**  
220 SE GREEN STREET  
LEE'S SUMMIT, MO 64063  
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FAX: (816) 969-1619

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LEE'S SUMMIT, MO 64063  
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FAX: (816) 969-1201

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**CITY HALL**  
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FAX: (816) 969-1935

**LEE'S SUMMIT FIRE DEPARTMENT**  
207 SE DOUGLAS ROAD  
LEE'S SUMMIT, MO 64063  
TEL: (816) 969-1300

**ELECTRIC COMPANY**  
EVERGY  
TEL: (888) 471-5275

**TELEPHONE COMPANY**  
AT&T  
TEL: (800) 464-7928

**GAS COMPANY**  
MISSOURI GAS ENERGY  
TEL: (816) 756-5252

#### BENCHMARKS

(DATUM: NAVD88)

BENCHMARK NUMBER: 1  
CHISELED SQUARE ON THE FRONT FACE OF A DUAL MANHOLE CURB INLET, LOCATED 49.8 FEET NORTHWEST OF THE NORTHEAST CORNER OF THE NORTH END OF SAINT LUKE'S HOSPITAL.

ELEVATION= 982.88

BENCHMARK NUMBER: 2  
CHISELED SQUARE ON THE FRONT FACE OF A CURB INLET, LOCATED ±97.4 FEET SOUTHWEST OF THE SOUTHEAST CORNER ON THE NORTH END SAINT LUKE'S HOSPITAL.

ELEVATION= 979.35

#### FLOOD STATEMENT

The subject property lies within Flood Zone " X " (unshaded) (Areas determined to be outside the 0.2% annual chance floodplain), as shown on the Jackson County, Missouri and Incorporated Areas Flood Insurance Rate Map (F.I.R.M.).

Map Number: 29095C0409G  
Panel No: 409 of 625  
Map Revised Date: January 20, 2017

**NOTE:** This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.



Sheet List Table	
Sheet Number	Sheet Title
CVR	Cover Sheet
C100	Demolition Plan - Building Expansion
C101	Demolition Plan - Parking Expansion
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C204	Dimension Plan - Parking Expansion
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C302	Detailed Grading Plan - Parking Expansion
C303	Overall Erosion Control Plan
C304	Erosion Control Plan - Building Expansion
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C501	Expansion Drainage Map
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C503	Storm Plan & Profile
C504	Storm Plan & Profile
C505	Storm Plan & Profile
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C701	Civil Details 2
C702	Civil Details 3
C703	Civil Details 4
L100	Landscape Plan
L200	Planting Details
L201	Irrigation Details 1
L202	Irrigation Details 2
A120	Architectural Site Plan Details
A214	Roof Plan and Details
A510	Exterior Elevations
A511	Exterior Elevations

#### SURVEYOR OF RECORD

BHC  
712 STATE AVE.  
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F (913) 663-1633  
CONTACT: BRENT THOMPSON  
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Construction Documents

Date	12/22/2022
Job Number	3-21037
Drawn By	KMY
Checked By	KMY

Revision		
Number	Date	Description

GRADING, FOOTING, AND FOUNDATION PACKAGE

**CVR**

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COVER SHEET



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GENERAL NOTES

- A. GENERAL
- These notes shall be read in conjunction with the Specifications and the Drawings. In the event of a conflict, notify the Architect for clarification.
  - Before executing anything herein shown, examine actual job conditions. Report any discrepancy, dimensional or otherwise, between architectural and structural Drawings and any other error, omission, or difficulty affecting the work to the Architect and to the Structural Engineer for review.
  - Any condition encountered in the existing structural system which is different from that indicated in drawings or which might create a failure or hazard shall be brought to the immediate attention of the Architect. The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications and Drawings.
  - All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.
  - All concrete and cmu walls shall be temporarily braced until floor and roof decks have been installed and all connections between these elements have been made. The contractor is responsible for the design of the bracing. The contractor is responsible for structural integrity and stability of existing structures during demolition and new construction.

- B. DESIGN
- Codes, specifications and standards (latest editions, U.S.A.)
    - All design and construction shall conform to the International Building Code (2018) as amended and adopted by the City of Lee's Summit, Missouri.
    - All construction shall comply with the provisions of the following codes, specifications and standards, except where noted to the contrary on drawings and specifications or where more stringent requirements are specified or shown:
      - MCIB "Specifications for Concrete Work"
      - ACI 117 "Standard Specifications for Tolerance for Concrete Construction and Materials"
      - ACI 301 "Specifications for Structural Concrete for Buildings"
      - ACI 218 "Building Code Requirements for Reinforced Concrete"
      - ACI 530 "Building Code Requirements for Masonry Structures"
      - ASCE 7 "Minimum Design Loads for Buildings and Other Structures"
      - AISC "Load and Resistance Factor Design (LRFD) Specification for Structural Steel Buildings"
      - AISI "Specifications for the Design of Cold-Formed Steel Structural Members"
      - SJI "Specifications, Load Tables, and Weight Tables for Steel Joist and Joist Girders"
      - SDI "Steel Deck Manual for Floor Decks and Roof Decks"
      - AWS D1.1 "Structural Welding Code - Steel"
  - Design Loads:
    - Future Roof - Snow (incl. rain on snow)
      - Flat Roof Snow Load,  $P_f$  24 psf
      - Snow Exposure Factor,  $C_e$  1.00
      - Snow Importance Factor,  $I_s$  1.00
      - Thermal Factor,  $C_t$  1.00
    - Wind
      - Basic Wind Speed (3 second gust),  $V$  130 mph
      - Risk Category IV
      - Wind Exposure C
      - Internal Pressure Coefficient 0.18
    - Seismic
      - Risk Category IV
      - Seismic Design Category C
      - Seismic Importance Factor,  $I_e$  1.50
      - Spectral Response Acceleration,  $S_s$  0.099g
      - Spectral Response Acceleration,  $S_1$  0.088g
      - Spectral Response Coefficient,  $S_d$  0.086g
      - Spectral Response Coefficient,  $S_{d1}$  0.068g
      - Site Class
      - Basic Seismic-Force-Resisting System: Dual Systems With Intermediate reinforced concrete moment frames w/ ordinary reinforced concrete shear walls
      - Seismic Response Coefficient,  $C_s$  0.023
      - Response Modification Factor,  $R$  5.5
      - Analysis Procedure Equivalent Lateral Force
    - Roof Live Load 30 psf
    - Floor Live Load 100 psf
  - Foundations are designed for the following net allowable bearing capacity:
    - Drilled Pier on limestone 50,000 psf
  - Foundations and retaining walls have been designed for the following ultimate fluid pressures:
    - Active (ka) 40 pcf
    - At-Rest (ko) 60 pcf
    - Passive (kp) 260 pcf

- C. EARTHWORK
- Refer to specification for access to geotechnical report.
  - Foundation design is based on a soils investigation by Alpha - Omega Geotech
  - Refer to Drawings and Specifications for details of fill and compaction requirements.
  - Foundation wall backfill shall not be unbalanced by more than two (2) feet on either side at any time or placed before the interior floors and shear walls are placed.
  - At stepped footings, place the lower footing first and run footing a minimum of 1 foot under upper footing.
  - Clean footing excavations immediately before concrete is placed to remove all material softened or loosened.
  - Place footings against undisturbed earth (i.e. bottom & sides).
  - All perimeter footings and footings in unheated portions of the building should extend a minimum of 3'-0" below final grade.

- D. CONCRETE
- Concrete used in the Work shall have the following minimum 28-day ultimate compressive strengths:
    - Drilled Piers, Footings, Grade Beams 4000 psi
    - Interior Slabs-on-Grade: 4000 psi
    - Columns and Concrete Walls: 4000 psi
    - Framed Slabs: 4500 psi
  - Portland Cement: ASTM C 150, Type 1.
  - Water-reducing admixtures: ASTM C 494, Type III.
  - Normal Weight Aggregates: ASTM C 33.
  - In case of integral construction, higher strength and lighter weight governs.
  - Air entrain all exterior concrete (admixture: ASTM C 260).
  - Do not use calcium chloride admixtures under any circumstances.
  - Reinforcing bars: ASTM A 615 Specifications, Grade 60, deformed. Bend bars cold.
  - Welded wire reinforcing (WWR): ASTM A 185.
  - Anchor bolts: Refer to "Steel" notes. Accurately locate anchor bolts with templates, and hold securely in position prior to and while placing concrete. Protect anchor bolts from construction activity until the structure above is in place. Inserting anchor bolts into partially hardened concrete is prohibited.
  - Maintain minimum concrete coverage for reinforcing as indicated, unless noted otherwise.
    - 3 in. clear where concrete is deposited directly against earth.
    - 2 in. clear where concrete is exposed to earth or weather but poured against forms for bars #5 or smaller.
    - 1-1/2 in. clear where concrete is exposed to earth or weather, but poured against forms for bars #5 or smaller.
    - 3/4 in. clear for slabs and walls formed above grade not exposed to weather.
    - 1-1/2 in. clear for beam and columns formed above grade and not exposed to weather.
  - Lap all bars at splices in accordance with ACI 318, but not less than 48 bar diameters nor less than 18 inches unless noted otherwise. All horizontal wall bars shall be developed at corners either by bending not less than 18 inches around corners or with properly placed hooked and lapped corner bars. Lap WRR a minimum of 9". Reference Typical Details for column splice requirements.
  - Top and bottom bars in continuous footings shall run continuous through multiple spans, where possible. Otherwise, top bars shall splice within the middle 1/3 span and bottom bars shall splice by lapping 3'-0" over supports.
  - Four columns, walls, and pilasters to be monolithic.
  - All bar steel and WRR shall be properly supported and held accurately in place as recommended by the Concrete Reinforcing Steel Institute, except that maximum spacing of any bar or welded wire fabric support shall be 3 feet.
    - Support top slab bars with continuous high chairs.
    - Support beam bars on heavy beam bolsters.
    - Support footing and grade beam bottom reinforcing on concrete bricks, concrete blocks, or mounds of poured concrete. Do not use any other support materials without the approval of the Engineer.
    - Support WRR in slab-on-grade properly at the mid-depth of the slab. Hooking and pulling up mesh after concrete has started to take its initial set is prohibited.
  - Interior slabs-on-grade: Reference Drawings for thickness of slab and size of WRR reinforcement. Place slab on a 15 mil. vapor barrier over a free draining granular subgrade as recommended by the geotechnical engineer.
  - There shall be no grade make an abrupt change in direction, such as at doors or corners or ends of walls, provide 1'-4" by 4 feet across the reentrant corner.
  - Openings in slabs and walls: Provide 2 - #5 extra bars each side of opening extending 2 feet past the opening, unless noted otherwise. Do not provide or cut any openings or cleaves in slabs or walls other than those shown on the Structural Drawings, unless approved by the Structural Engineer.

- E. MASONRY
- Concrete masonry units (CMU): ASTM C 90, minimum net area of 8800 sq. in. per sq. ft. for Type M or S mortar.
  - Mortar: Portland cement and lime, and proportioned in accordance with ASTM C 270 for the following types:
    - Type N - for all walls above grade.
    - Type M - for all walls below grade, in contact with earth.
  - $f'_m$  = 2000 psi - hollow units.
  - Concrete Masonry shall be laid in running (common) bond.
  - Provide mortar bed on webs between grouted cells and hollow cells.
  - Grout: ASTM C 476, 2,500 psi minimum 28-day compressive strength.
  - Concrete Masonry below finished floor shall be normal weight units and shall have all cells fully grouted. Concrete Masonry above finished floor shall be light weight units and shall be grouted as specified.
  - Grout all vertical cells and spaces containing reinforcing bars (as detailed) bond beams, and lintels.
  - Vertically reinforce walls as shown on the "CMU wall schedule". In addition, reinforce vertically at each corner, 2 cells at ends of walls, 2 cells each side of control joints and openings.
  - Horizontally provide continuous bond beam with 2 #5 minimum for 12" CMU; (1) #5 minimum for 8" or 6" CMU at floor/roof, 8'-0" above floors and top of wall, unless noted otherwise. Provide #5 corner bar for each horizontal bond beam bar at all wall corners.
  - Place reinforcement prior to grouting. Hold vertical reinforcement in position with rebar positioner wire bond hot dip galvanized 3/01 for single bars and 3/02 for double bars, or equivalent (min. 2 each lift).
  - Provide horizontal joint reinforcement as indicated on the drawings and specifications, at a minimum provide at 16'o.c.
  - Lap joint reinforcement a minimum of 6 in.
  - In no case shall shores and forms at lintels be removed until it is certain that the masonry has hardened sufficiently to carry its own weight and all other reasonable temporary loads that may be placed on it during construction.
  - Do not wet concrete masonry units, except saw cutting.
  - Do not use calcium chloride.
  - Do not use masonry cement.
  - Install temporary bracing at all CMU walls. Do not remove temporary bracing until wall is permanently braced by connection to the roof and floor structures.
  - Provide cleanness openings at bottom of cells to be grouted when grout pour exceeds 5'-0" in height. Remove all overhanging mortar or obstructions and any debris from inside each cell walls.

- F. POST-INSTALLED ANCHORS
- Except where indicated on the drawings, post-installed anchors shall consist of the following anchor types:
    - Anchor to concrete and grouted cmu walls.
  - Adhesive anchors shall have been tested in accordance with ACI 308.4 and/or ICC-ES AC308 for cracked concrete and seismic applications. Adhesive anchors shall be installed by a certified adhesive anchor installer where designated on the contract documents. Pre-approved products include:
    - Hilti HIT-HY 200 SAFE SET System with Hilti HIT-Z Rod per ICC ESR-3187.
    - Hilti HIT-HY 200 SAFE SET System with Hilti hollow drill bit system with HAS-F threaded rod per ICC ESR-3187.
    - Hilti HIT-HY 200 SAFE SET System without Hilti hollow drill bit system with HAS-E threaded rod per ICC ESR-3187. Follow manufacturer recommended hole cleaning practice for this option.
    - Simpson Strong-Tie SET-XP adhesive anchoring system per ICC ESR-2008.
  - Secure anchors shall have been tested in accordance with ACI 308.4 and/or ICC-ES AC308 for cracked concrete and seismic applications. Pre-approved products include:
    - Hilti KWIK HUS EZ screw anchors per ICC ESR-3027.
    - To be used in concrete and grouted cmu walls.
    - (For interior applications only, not approved for exterior application)
  - Anchor to Masonry Hollow Cells and Brick
    - Hilti HIT-HY 70 Masonry Adhesive anchoring system per ICC ESR-3342. Steel Anchor element shall be Hilti HAS-E continuously threaded Rod. The appropriate size screen tube shall be used per adhesive manufacturer's recommendation.
    - Simpson Stone-Tie AT Masonry Adhesive anchoring system per ICC ESR-3342. Steel Anchor element shall be continuously threaded Rod. The appropriate size stainless steel screen tube shall be used per adhesive manufacturer's recommendation.
  - Install anchors per the manufacturer instructions, as included in the anchor packaging.
  - Drill holes for wedge-type expansion anchors using a bit incapable of cutting steel. Do not cut existing concrete reinforcing steel. If, while drilling, reinforcing steel is encountered, notify the Structural Engineer for approval of new location. Clean and patch the abandoned hole with grout. Always follow the written instructions for the product.
  - Where epoxy anchors are indicated to be installed at "reduced installation torque" on these drawings, follow above referenced ICC ESR reports to determine required installation torque.

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	TO	TOP OF
ACI	AMERICAN CONCRETE INSTITUTE	TOC	TOP OF CONCRETE
AFP	ABOVE FINISHED FLOOR	TOF	TOP OF FOOTING
ASCC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	TOGB	TOP OF GRADE BEAM
ASIS	AMERICAN IRON AND STEEL INSTITUTE	TOM	TOP OF MASONRY
ARCH	ARCHITECTURAL	TOP	TOP OF PAVING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	TOS	TOP OF STEEL
AWG	AMERICAN WELDING SOCIETY	TRANS	TRANSVERSE
BB	BOND BEAM	TYP	TYPICAL
BL	BLOCK LINTEL	UNO	UNLESS NOTED OTHERWISE
BS	BOTTOM OF	VERT	VERTICAL
BSS	BOTTOM OF STEEL	W	WIDTH
BRG	BEARING	WP	WORK POINT
CJ	CONTRACTION JOINT		
CL	CENTER LINE		
CLR	CLEAR		
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN		
CONC	CONCRETE		
CONN	CONNECTION		
CONST	CONSTRUCTION		
CONST	CONSTRUCTION		
DA	DIAMETER		
EFS	EXTERIOR INSULATION AND FINISH SYSTEM		
EJ	EXPANSION JOINT		
EL	ELEVATION		
EQ	EQUAL		
EV	EACH WAY		
FDN	FOUNDATION		
FIN	FINISHED FLOOR		
FS	FAR SIDE		
FTG	FOOTING		
GA	GAGE		
GC	GENERAL CONTRACTOR		
GYP BD	GYPSONUM BOARD		
HORIZ	HORIZONTAL		
ISA	HEADED STUD ANCHOR		
INFO	INFORMATION		
ISOLATION	ISOLATION		
JBS	JOIST BEARING ELEVATION		
JS	JOIST GIRDER		
JOIST	JOIST		
KT	JOINT		
KSI	KIPS PER SQUARE INCH		
LB	POUNDS		
LH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LONG	LONGITUDINAL		
MAX	MAXIMUM		
MECH	MECHANICAL		
MEP	MECHANICAL ELECTRICAL PLUMBING		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
NO	MASONRY OPENING		
MTL	METAL		
NR	NUMBER		
NS	NEAR SIDE		
NTS	NOT TO SCALE		
OD	OUTSIDE DIAMETER		
OH	OPPOSITE HAND		
OST	OUTSTANDING LEG		
PAF	POWDER ACTUATED FASTENER		
PCF	POUNDS PER CUBIC FOOT		
PL	PLATE		
PLF	POUNDS PER LINEAR FOOT		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
QTY	QUANTITY		
REF	REFER TO		
REIN	REINFORCING		
REQD	REQUIRED		
REV	REVERSE		
RO	ROUGH OPENING		
RTU	ROUGH TOP UNIT		
SCHED	SCHEDULE		
SDI	STEEL DECK INSTITUTE		
SIM	SIMILAR		
SJI	STEEL JOIST INSTITUTE		
SOG	SLAB ON GRADE		
SPEC	SPECIFICATIONS		
STRUC	STRUCTURAL		
TCMU	TOP OF CMU WALL		
TBS	TOP OF BOND BEAM		
T&B	TOP AND BOTTOM		
THK	THICKNESS		

SPECIAL INSPECTION AND TESTING

- The following tests and inspection shall be performed by an independent inspection agency employed by the owner and approved by the structural engineer and the building official. Test and inspection reports shall be submitted to the owner, architect, structural engineer, and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code.

Classification of Work Requiring Special Inspections

- |                                    |   |
|------------------------------------|---|
| • Excavation and Filling           | • Structural Welding                        |
| • Verification of Soils            | • High Strength Bolting                     |
| • Placement of Reinforcing Steel   | • Steel Frame Inspection                    |
| • Placement of Reinforced Concrete | • Seismic Resistance                        |
| • Testing of Reinforced Concrete   | • Inspection of Structural Steel Fabricator |
| • Bolts Installed in Concrete      | • Sprayed Fire-Resistant Materials          |
| • Structural Masonry               | • Fire-Resistant Penetrations and Joints    |

REQUIRED SPECIAL INSPECTIONS AND TEST OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of fill materials.	-	X
4. Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X
6. Verify materials below drilled piers are adequate to achieve the design bearing capacity.	-	X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE STRUCTURE

TYPE	CONTINUOUS	PERIODIC
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X
2. Inspect anchors cast in concrete.	-	X
3. Inspect anchors post-installed in hardened concrete members.	X	-
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	-	X
b. Mechanical anchors and adhesive anchors not defined in 3.a.	-	X
4. Verify use of required design mix.	-	X
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-
6. Inspect concrete and shotcrete placement for proper application techniques.	X	-
7. Verify maintenance of specified curing temperature and techniques.	X	-

MINIMUM SPECIAL INSPECTION REQUIREMENTS OF STRUCTURAL CMU WALLS LEVEL C QUALITY ASSURANCE

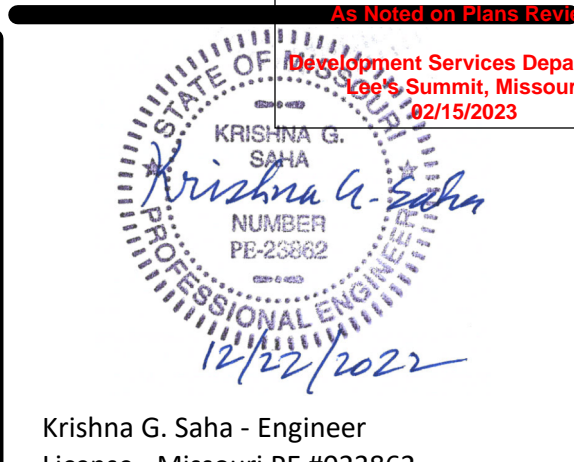
Inspection Task	MINIMUM SPECIAL INSPECTION	
	Continuous	Periodic
1. As masonry construction begins, verify that the following are in compliance: <ol style="list-style-type: none"><li>Proportions of site-prepared mortar and grout</li><li>Grade, type, and size of reinforcement connectors, anchor bolts</li><li>Sample panel construction</li></ol>	-	X
2. Prior to grouting, verify that the following are in compliance: <ol style="list-style-type: none"><li>Grout space</li><li>Placement of reinforcement, connectors, and anchor bolts</li><li>Proportions of site-prepared grout</li></ol>	X	-
3. Verify compliance of the following during construction: <ol style="list-style-type: none"><li>Materials and procedures with the approved submittals</li><li>Placement of masonry units and mortar joint construction</li><li>Placement of grout</li><li>Size and location of structural members</li></ol>	X	X
e. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	X	-
f. Welding of reinforcement	X	-
g. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	X	-
4. Observe preparation of grout specimens, mortar specimens, and/or prisms.	X	-

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Material verification of cold formed steel deck: <ol style="list-style-type: none"><li>Identification markings to conform to ASTM standards specified in the approved construction documents.</li><li>Manufacturer's certified test reports.</li></ol>	-	X
2. Inspection of welding: <ol style="list-style-type: none"><li>Cold formed steel deck:<ul style="list-style-type: none"><li>(1) Floor and roof deck welds.</li></ul></li><li>Reinforcing steel:<ul style="list-style-type: none"><li>(1) Verification of weldability of reinforcing steel other than ASTM A706.</li><li>(2) Reinforcing steel remaining flexural and axial forces in immediate and special moment frames, and boundary elements special structural walls of concrete and shear reinforcement.</li><li>(3) Shear reinforcement.</li><li>(4) Other reinforcing steel.</li></ul></li></ol>	-	X
3. Tectum Deck Attachment to Structure: <ol style="list-style-type: none"><li>Welding</li><li>Bolting/anchoring</li></ol>	-	X

REQUIRED VERIFICATION AND INSPECTION OF SPRAYED FIRE-RESISTANT MATERIALS AND FIRE-RESISTANT PENETRATIONS AND JOINT

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Condition of substrates	-	X
2. Thickness of application	-	X
3. Density in pounds per cubic foot	-	X
4. Bond strength adhesion/cohesion	-	X
5. Condition of finished application	-	X
6. Penetration firestop's	-	X
7. Fire-resistant joint system	-	X
8. Floor to wall intersections	-	X



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CONSTRUCTION DOCUMENTS

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100 NE Saint Luke's Blvd  
Lee's Summit, MO 64086

Date 12/22/2022  
Job Number 3-21037  
Drawn By GEB  
Checked By KGS

Revision  
Number Date Description

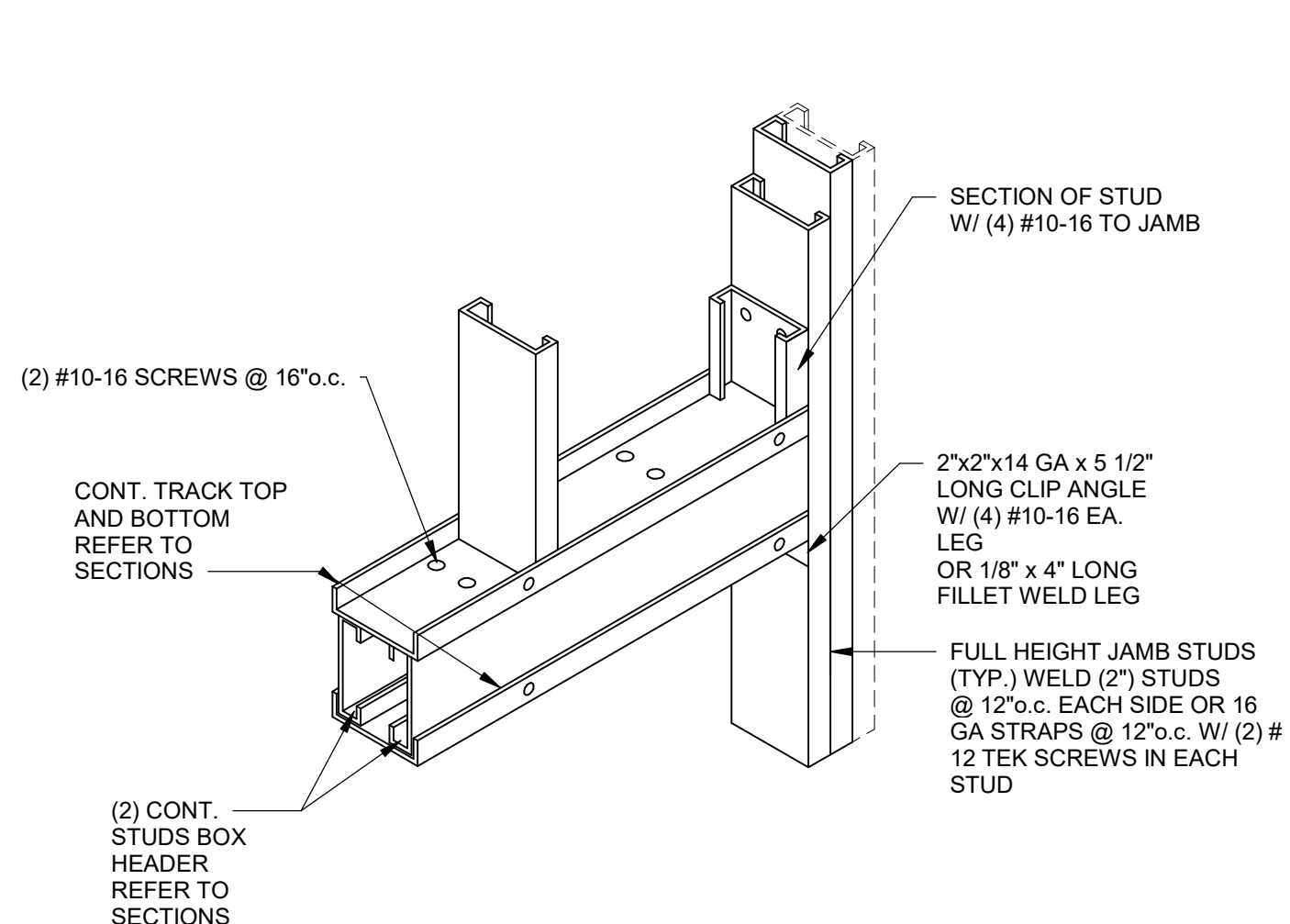
Grading, Footing, and Foundation Package

S0.0

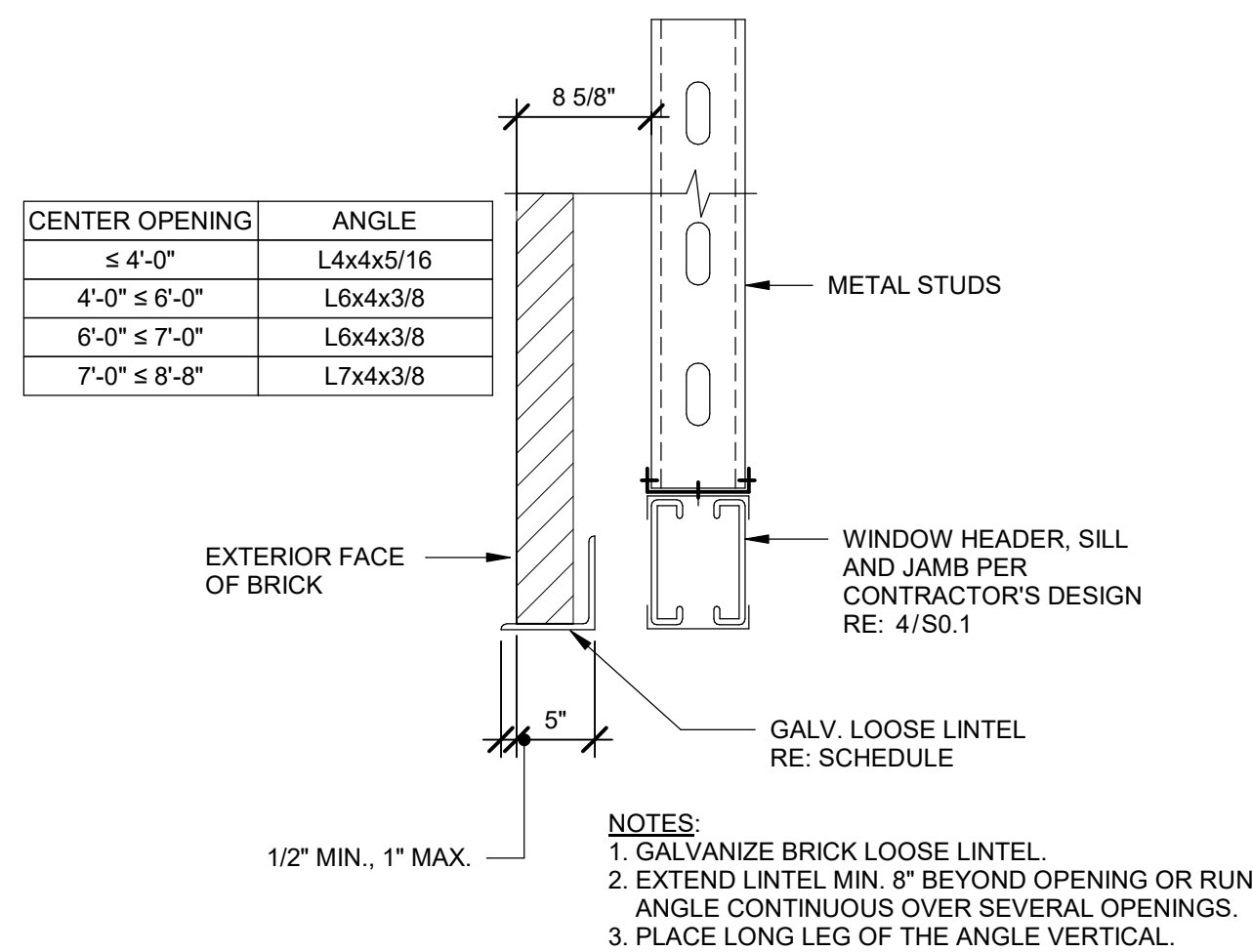
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GENERAL NOTES

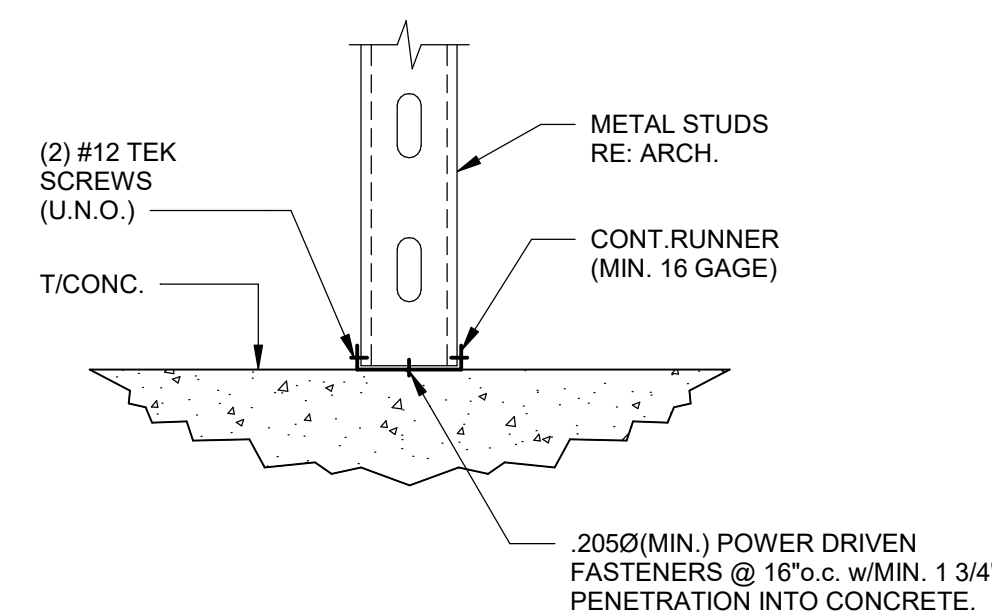




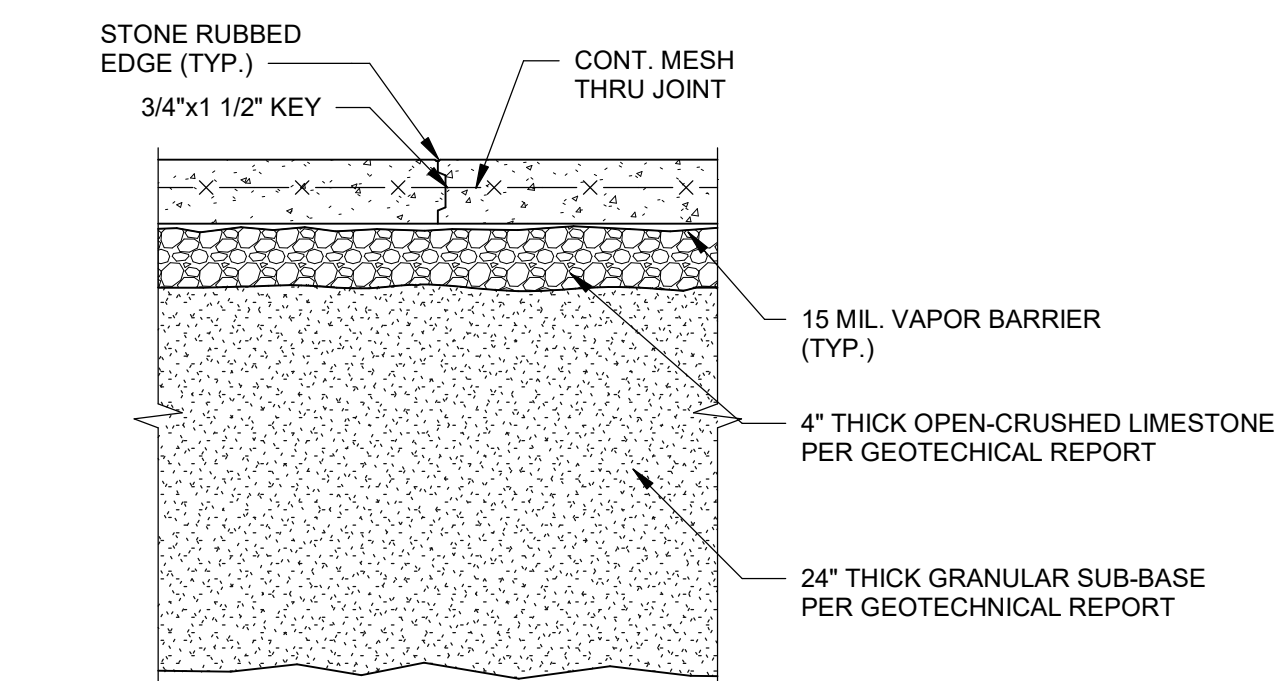
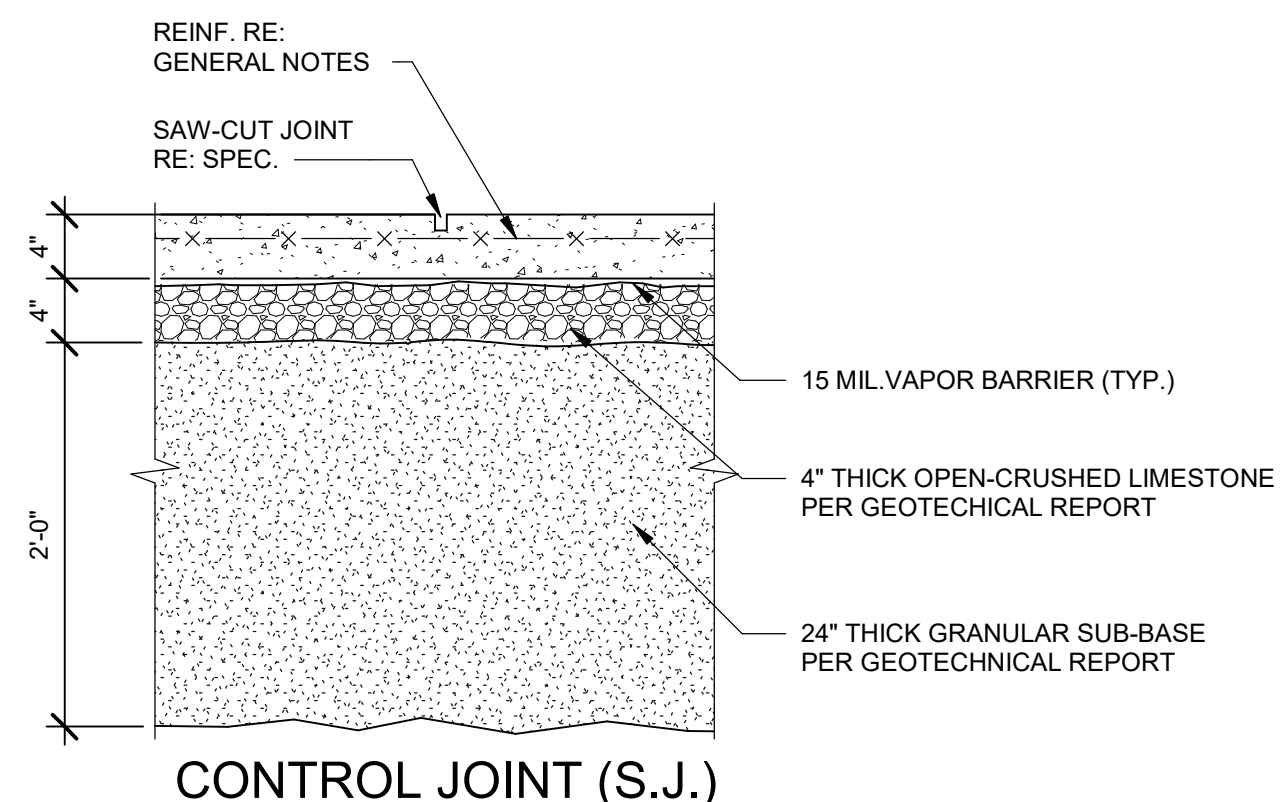
4 TYPICAL HEADER - JAMB DETAIL  
N.T.S.



3 BRICK LINTEL SCHEDULE (LOOSE LINTEL)  
N.T.S.

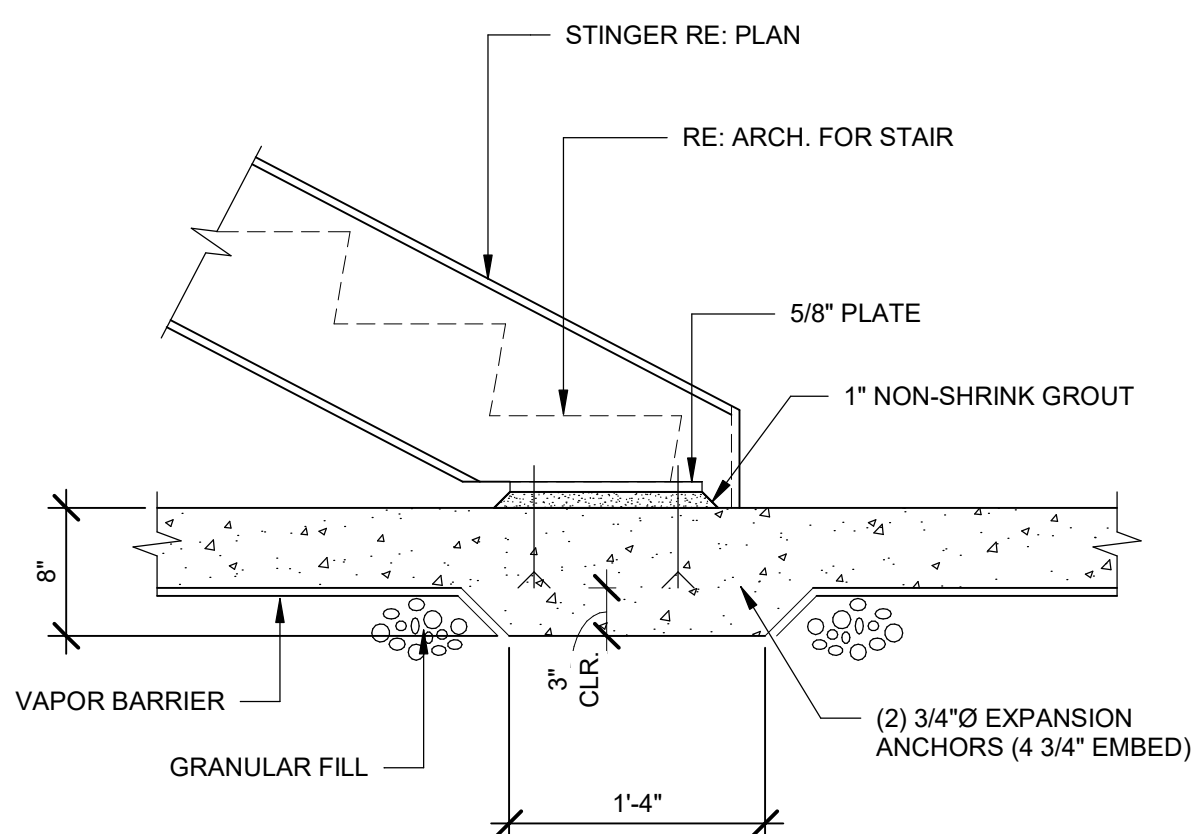


2 TYP. METAL STUD BASE CONN.  
N.T.S.

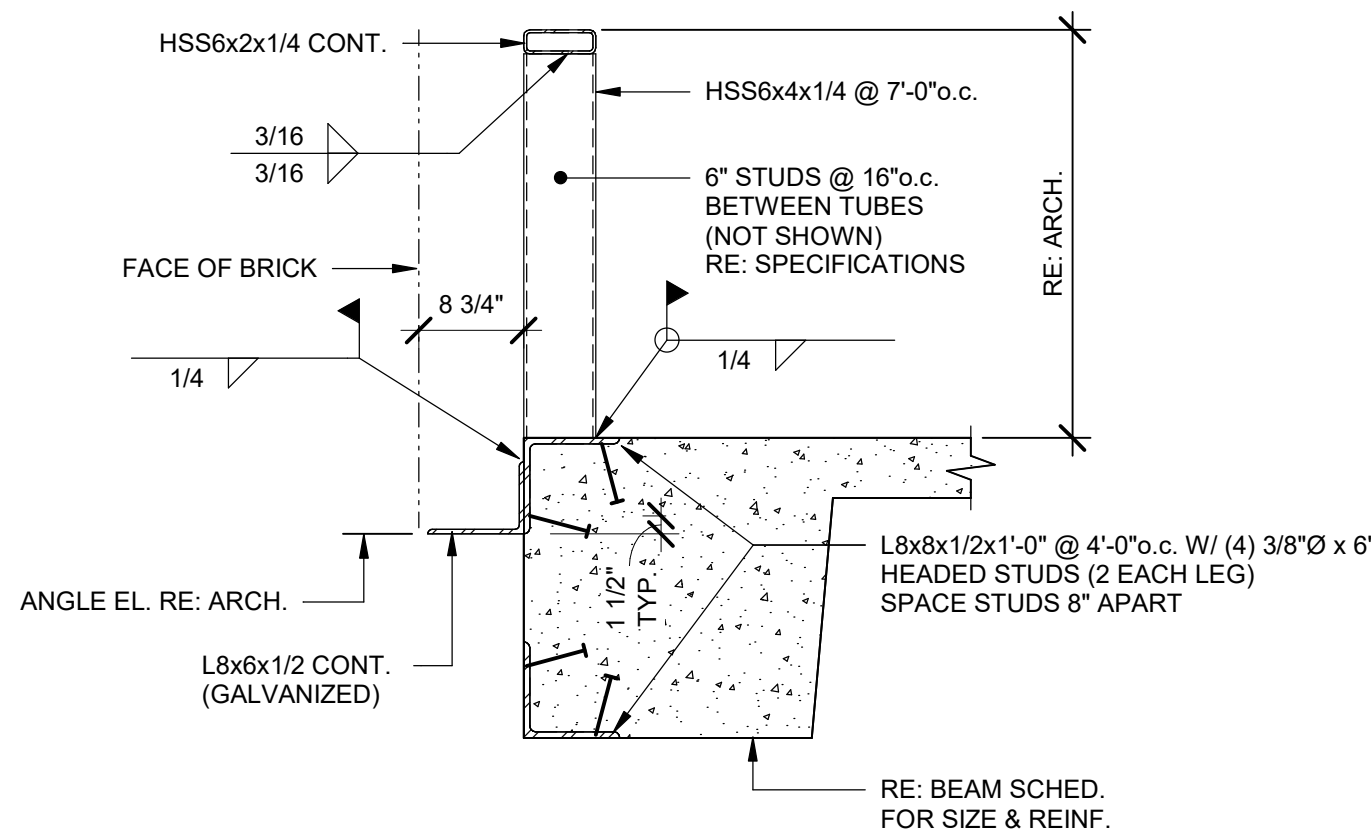


PROVIDE C.J. @ 60'-0"± AND S.J. @ 15'-0" o.c.±

1 TYP. SLAB-ON-GRADE DETAILS  
N.T.S.

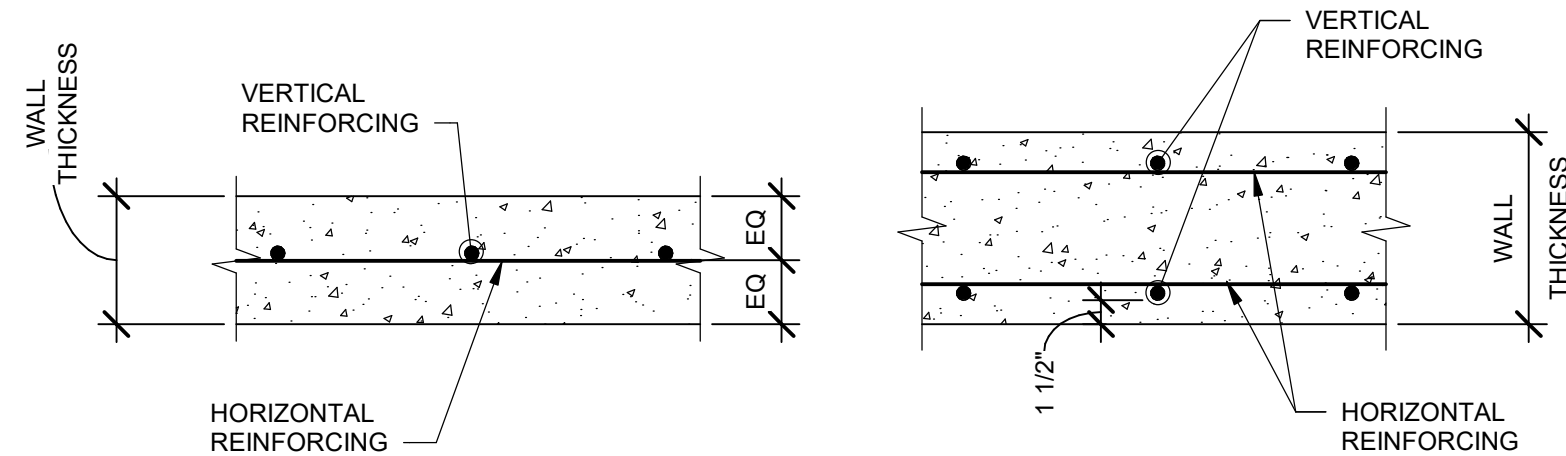


9 THICKEN S.O.G. UNDER STAIR  
N.T.S.



8 TYPICAL FRAMING AT PARAPET  
N.T.S.

WALL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	DETAIL
8"	#5 @ 12" o.c. (CENTERED)	#4 @ 12" o.c. (CENTERED)	TYPE 1
12"	#5 @ 12" o.c. EACH FACE	#4 @ 12" o.c. EACH FACE	TYPE 2

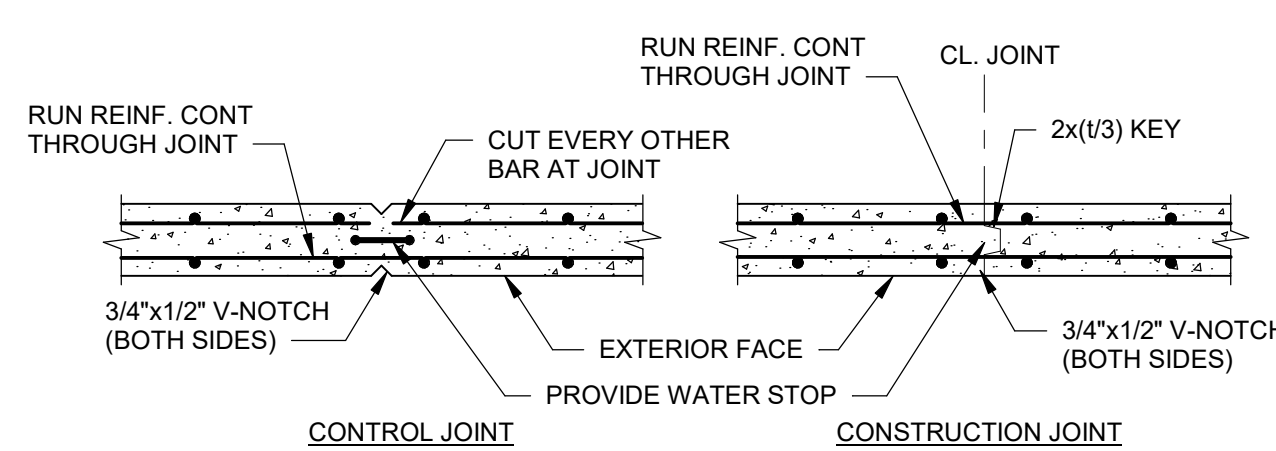


TYPE 1 - PLAN DETAIL

TYPE 2 - PLAN DETAIL

NOTE: USE REINFORCING SHOWN ON SCHEDULE IF NOT SPECIFIED ON WALL SECTIONS

7 CONCRETE WALL REINFORCING SCHEDULE  
N.T.S.

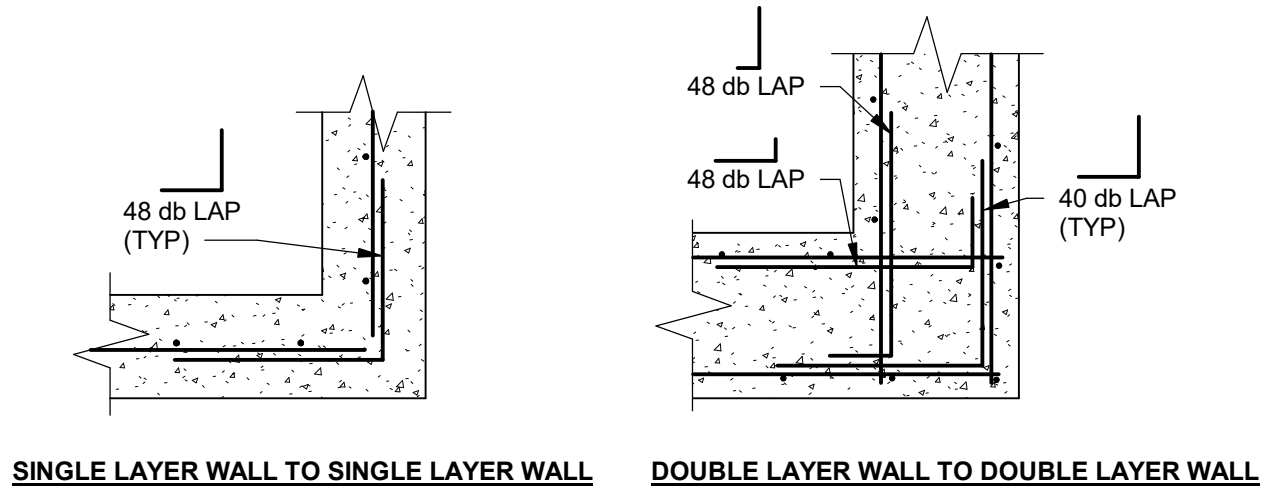


NOTE:

1. PROVIDE CONSTRUCTION JOINT @ 50'-0" o.c. (MAX.) AND CONTROL JOINT AT 25'-0" o.c. (MAX.). INSTALL CONTROL JOINT A MINIMUM OF 8'-0" AWAY FROM COLUMNS.
2. DO NOT PROVIDE CONTROL JOINT IN SHEAR WALLS (STAIRS/ELEVATORS)

6 TYPICAL WALL JOINTS  
N.T.S.

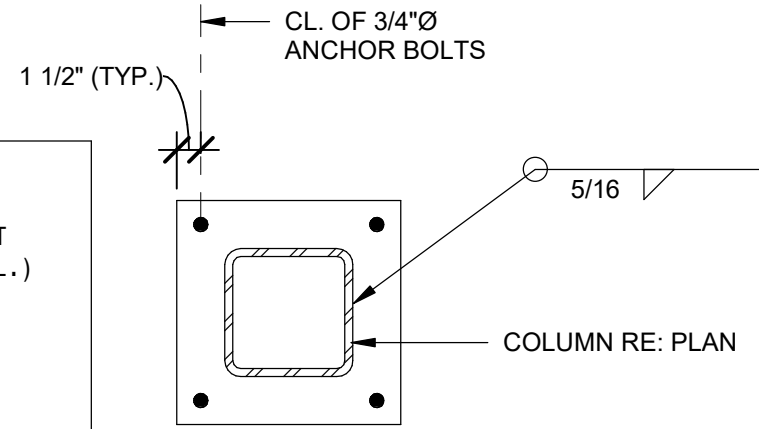
INTERSECTING WALL REINFORCING IS IN ADDITION TO ALL OTHER WALL REINFORCING. RE: PLAN AND WALL SECTIONS FOR ACTUAL LOCATION AND SIZE OF WALL REINFORCING. WALL REINFORCING SHOWN IS ILLUSTRATIVE ONLY.



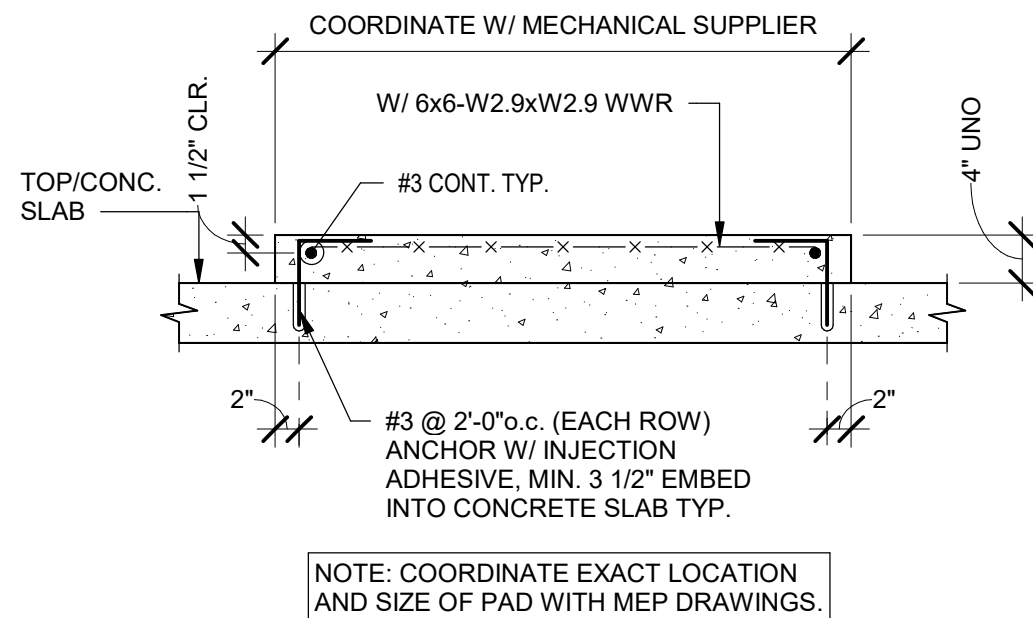
5 TYPICAL INTERSECTING WALL REINF.  
N.T.S.

COLUMN SIZE	BASE PLATE	ANCHOR BOLTS
HSS6x6	1'x1'-2"x1'-2"	(4) 3/4"Ø
HSS6x6	3/4"x1'-0"x1'-0"	(4) 3/4"Ø

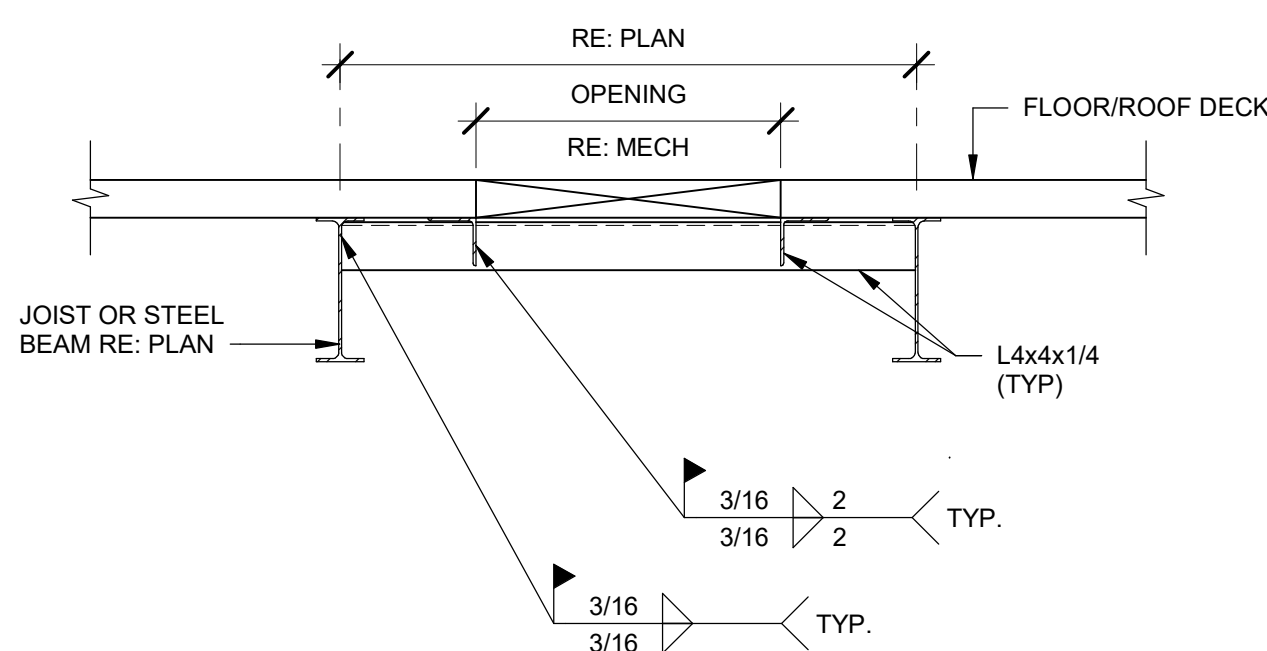
- NOTES:
1. ALL ANCHOR BOLTS SHALL F1554 (OR 36), 12" EMBEDMENT (9" EMBEDMENT FOR HSS6x6 COL.) W/ 1/4" WASHER AND NUT TACK WELDED TO BOLT.
  2. ALL ANCHOR BOLTS HOLES SHALL BE 1 1/16"Ø
  3. SET ALL BASE PLATE ON A MIN. OF 1" NON-SHRINK GROUT



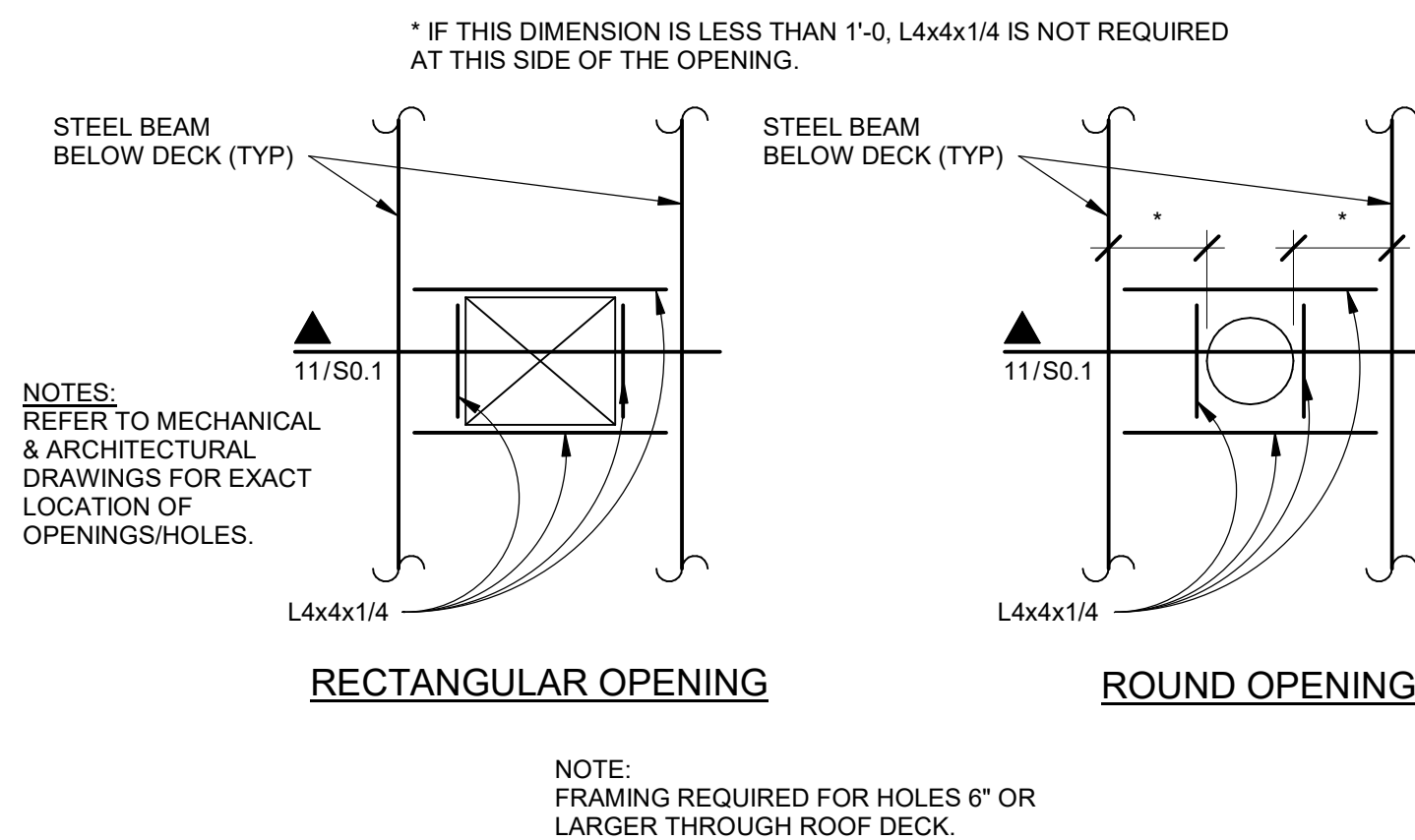
13 STEEL COLUMN SCHEDULE  
1" = 1'-0"



12 HOUSEKEEPING PAD DETAIL  
3/4" = 1'-0"



11 FRAMING AROUND THE OPENING  
N.T.S.



10 TYP. ROOF PENETRATION FRAMING PLAN  
N.T.S.



Krishna G. Saha - Engineer  
License - Missouri PE #023862



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## STRUCTURAL CONSULTANT

**Structural Engineering Associate:**  
1000 Walnut Street, Suite 1570  
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816.421.1042  
Licensee's Certificate of Authority  
Missouri: #000396

## MEP CONSULTANT

**IMEG**  
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Kansas City, MO 64108  
816.842.8437

CONSTRUCTION DOCUMENTS

 Saint Luke's<sup>®</sup>

## EAST HOSPITAL ASC EXPANSION & RENOVATION

100 NE Saint Luke's Blvd  
Lee's Summit, MO 64086

Date	12/22/2022
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

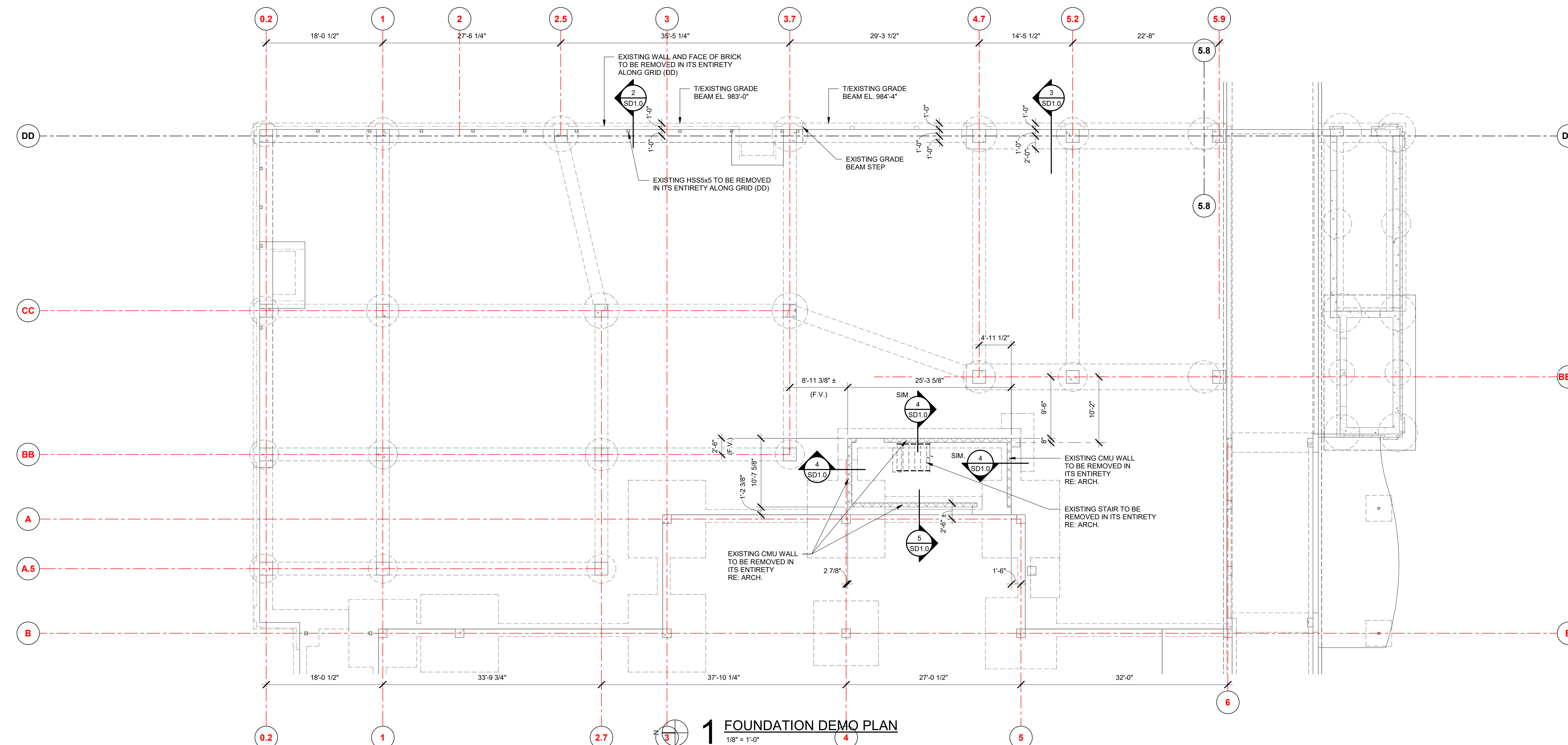
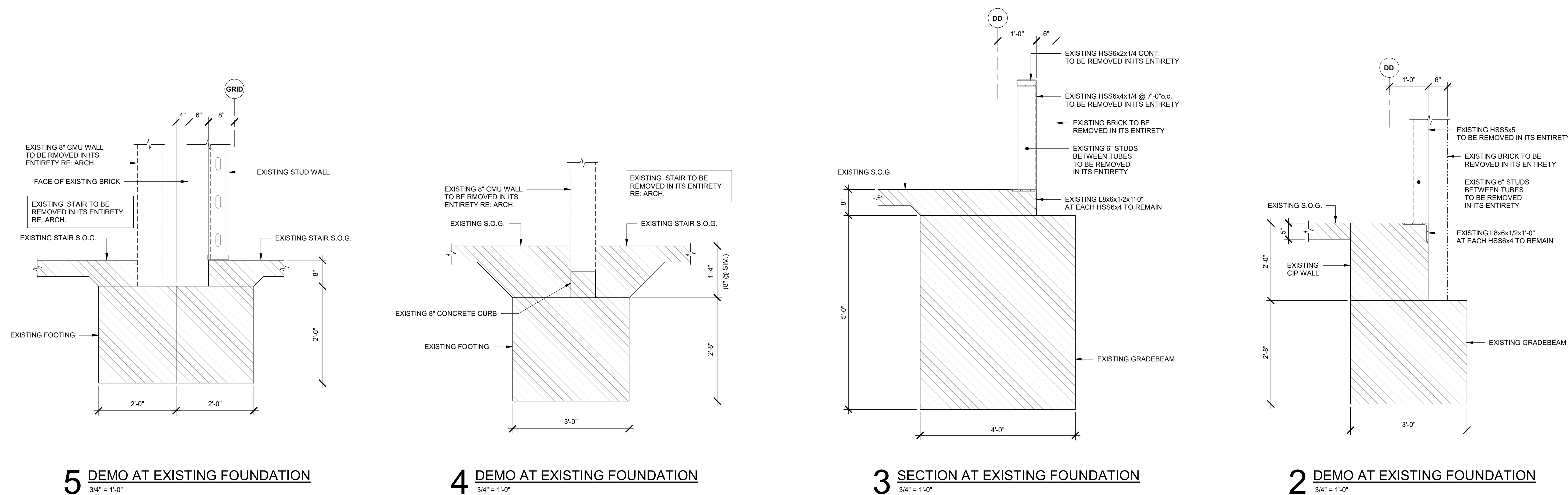
Revision		
Number	Date	Description

GRADING, FOOTING, AND FOUNDATION PACKAGE

SD1.0

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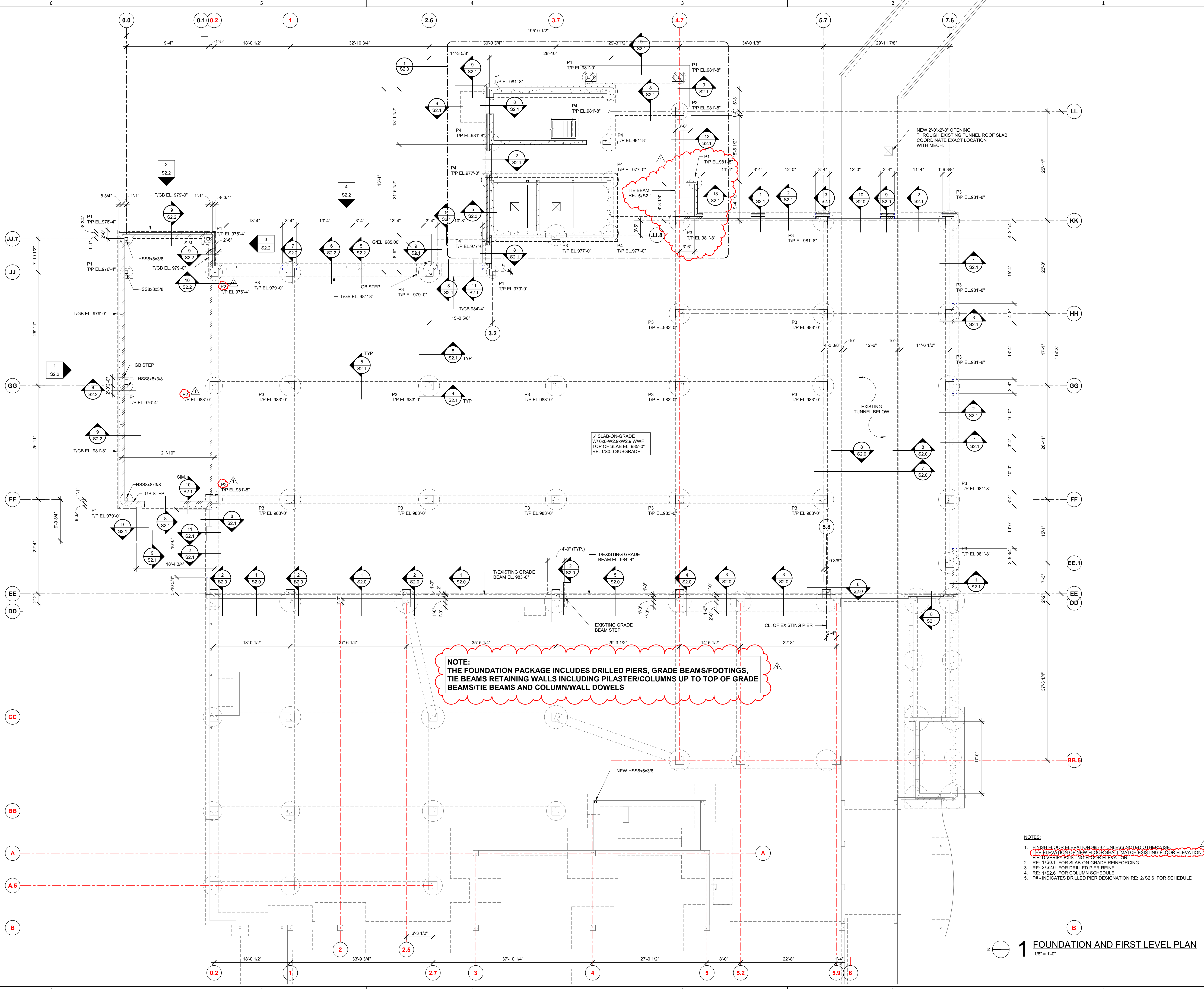
## FOUNDATION DEMO PLAN





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ACI/Boland, Inc. 01/20/2023

Project: Saint Luke's East Hospital ASC Expansion & Renovation

Drawn By: GEB

Checked By: KGS

ACI BOLAND ARCHITECTS

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Saint Luke's

EAST HOSPITAL

ASC EXPANSION & RENOVATION

100 NE Saint Luke's Blvd

Lee's Summit, MO 64086

CONSTRUCTION DOCUMENTS

Date: 01/20/2023

Job Number: 3-21037

Drawn By: GEB

Checked By: KGS

Revision

Number: 1

Date: 01-20-23

Description: ADDENDUM #1

1 FOUNDATION AND FIRST LEVEL PLAN

1/8" = 1'-0"

GRADING, FOOTING, AND FOUNDATION PACKAGE

S1.0

FOUNDATION AND FIRST LEVEL PLAN

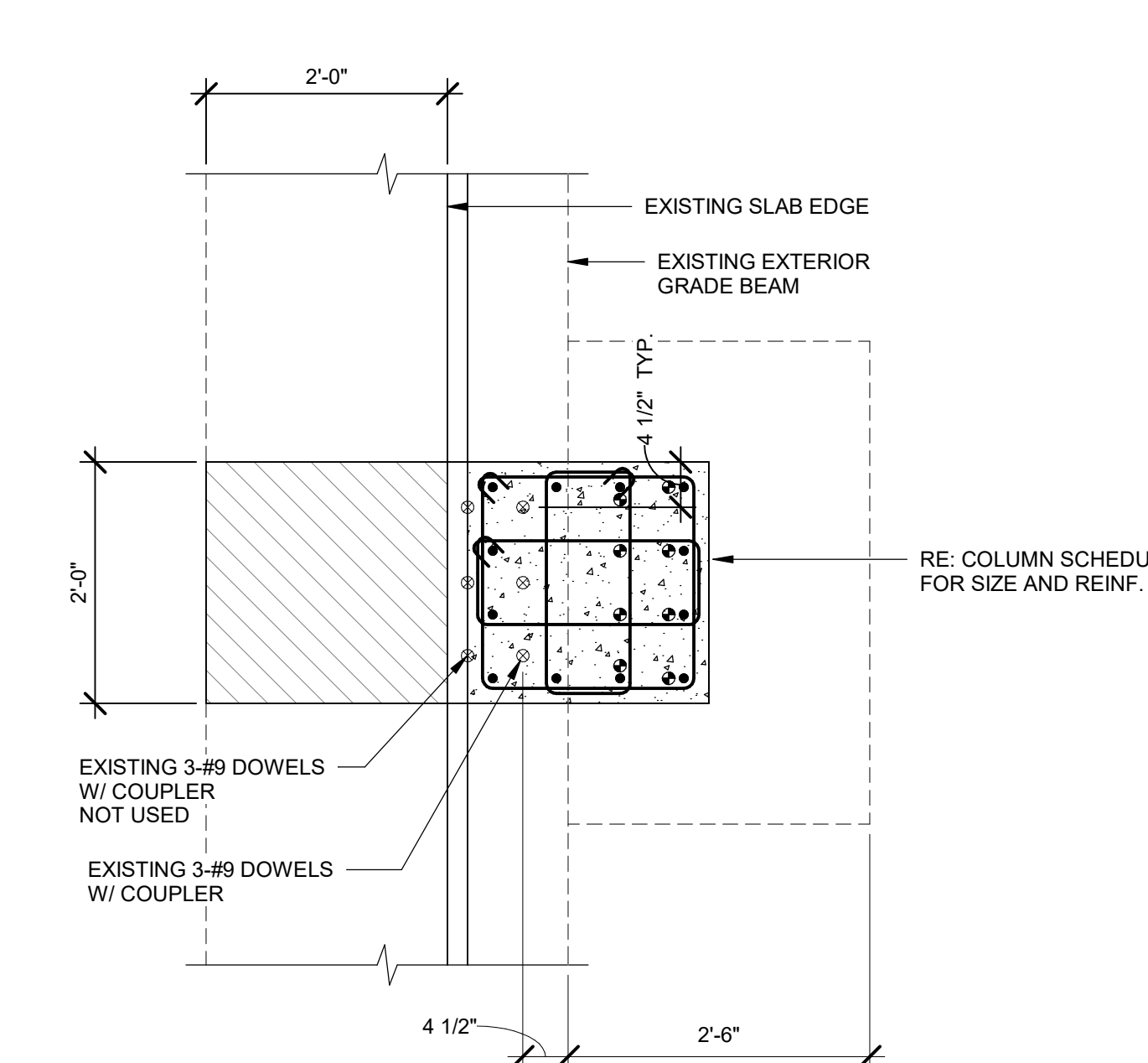


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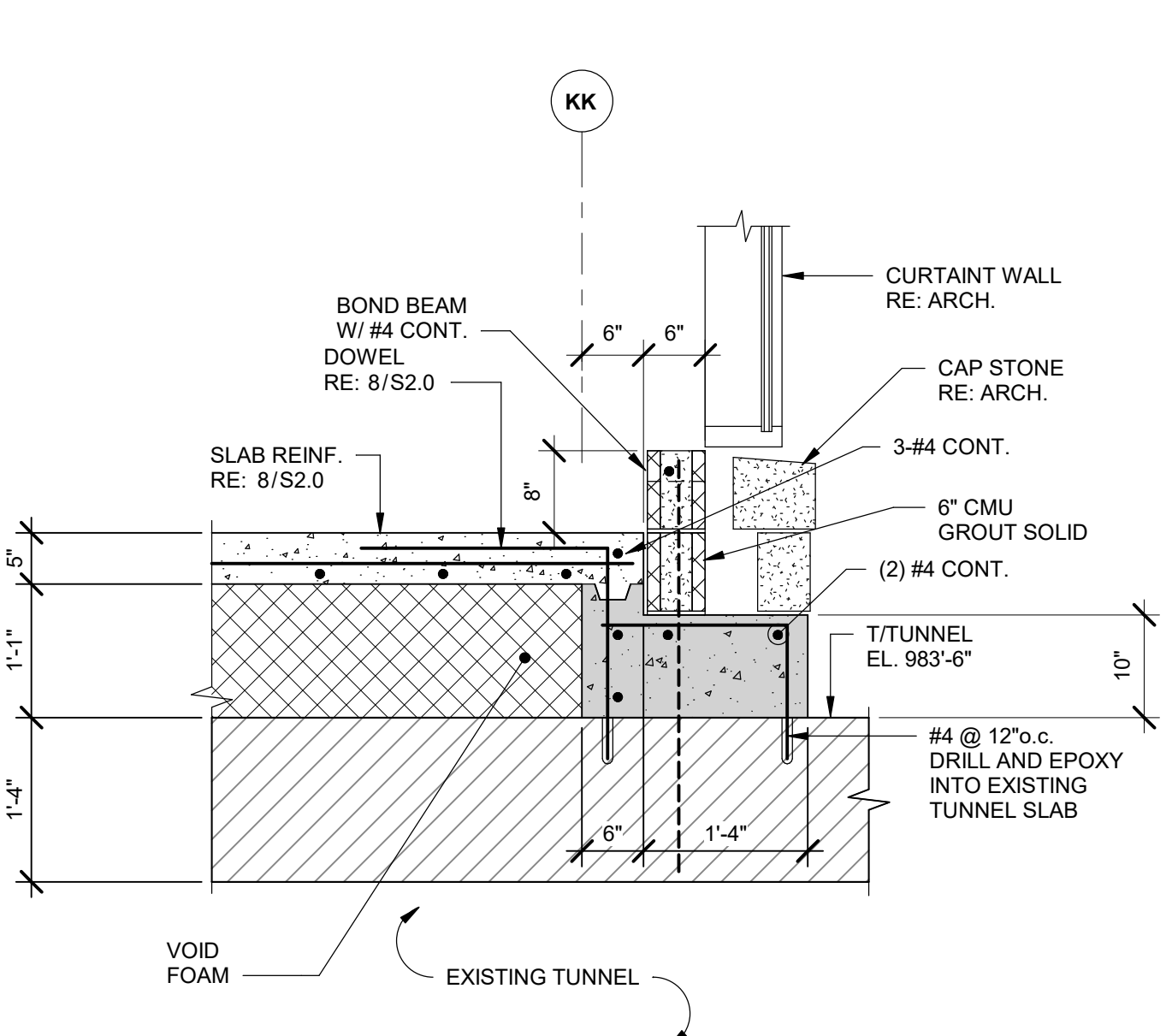
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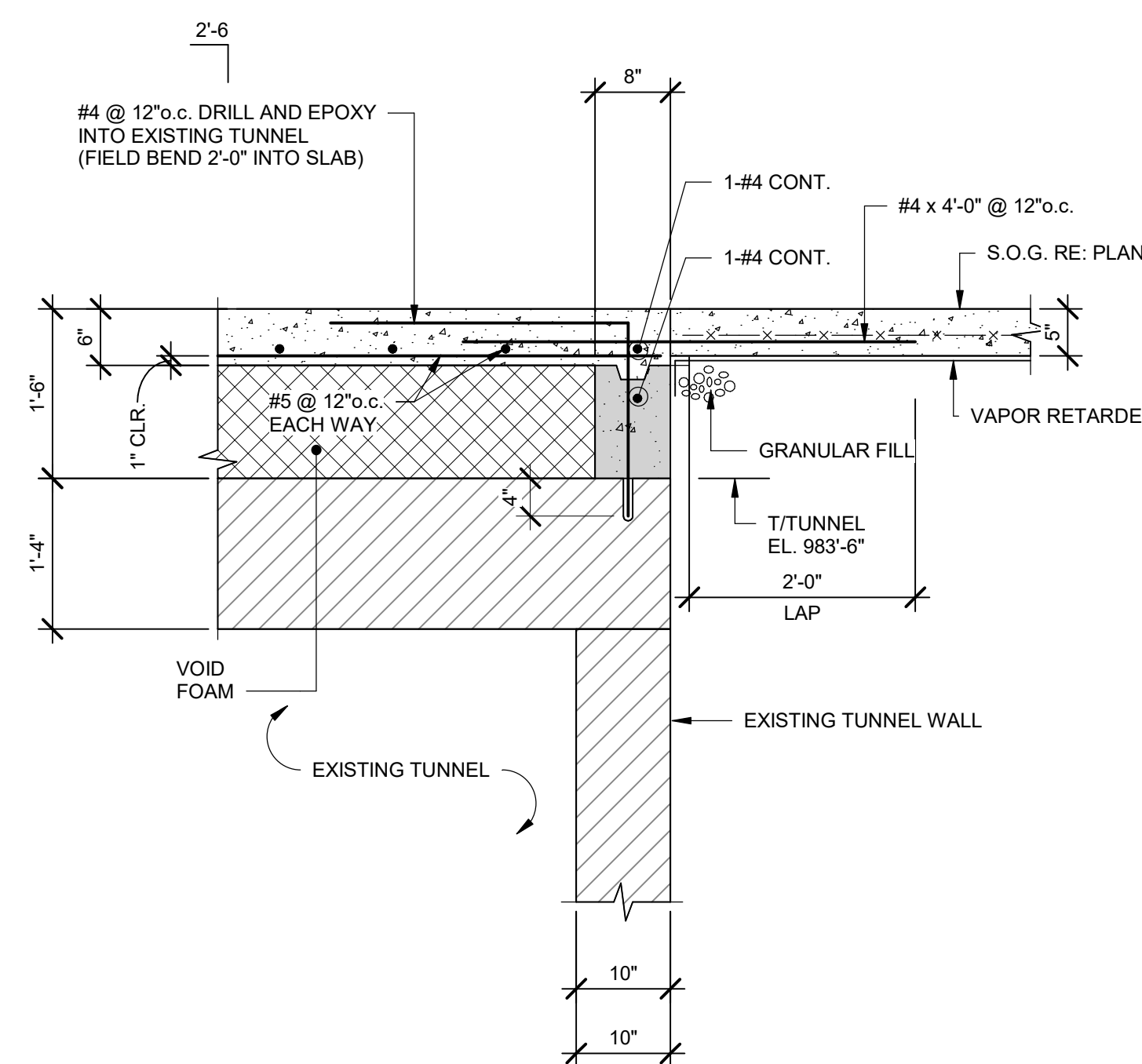
9 SECTION AT EXISTING TUNNEL  
3/4" = 1'-0"



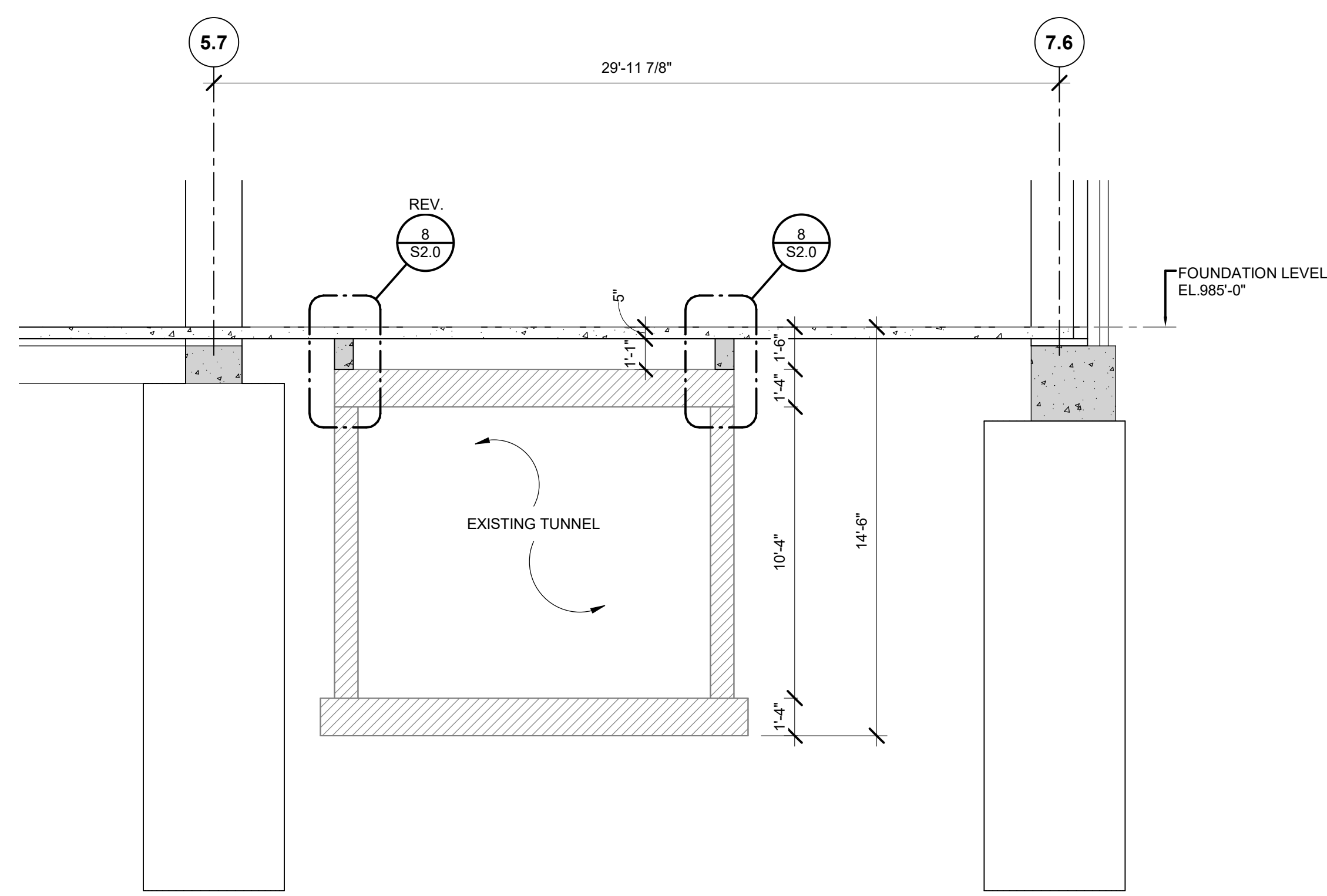
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3/4" = 1'-0"



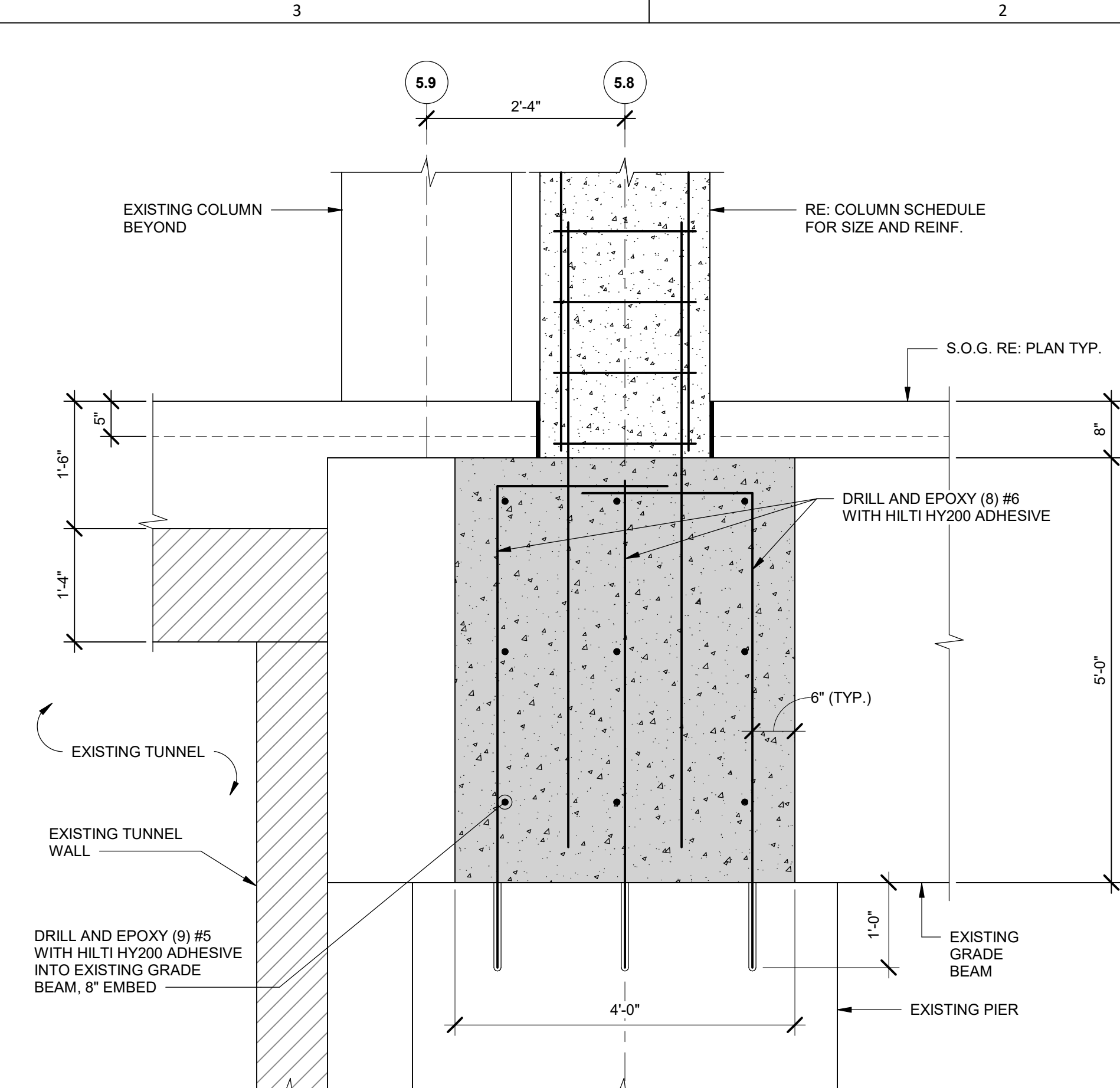
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3/4" = 1'-0"



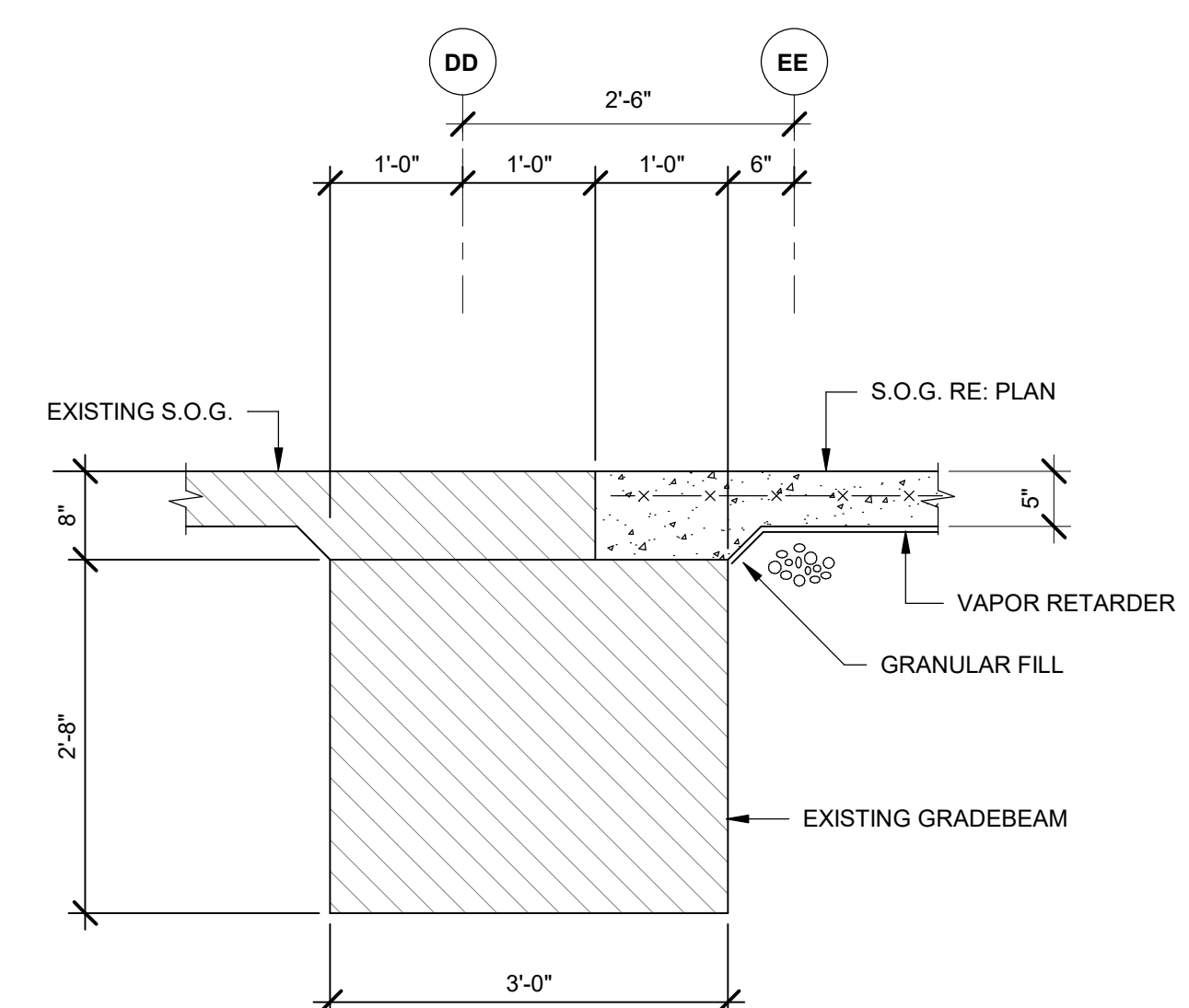
8 SECTION AT EXISTING TUNNEL  
3/4" = 1'-0"



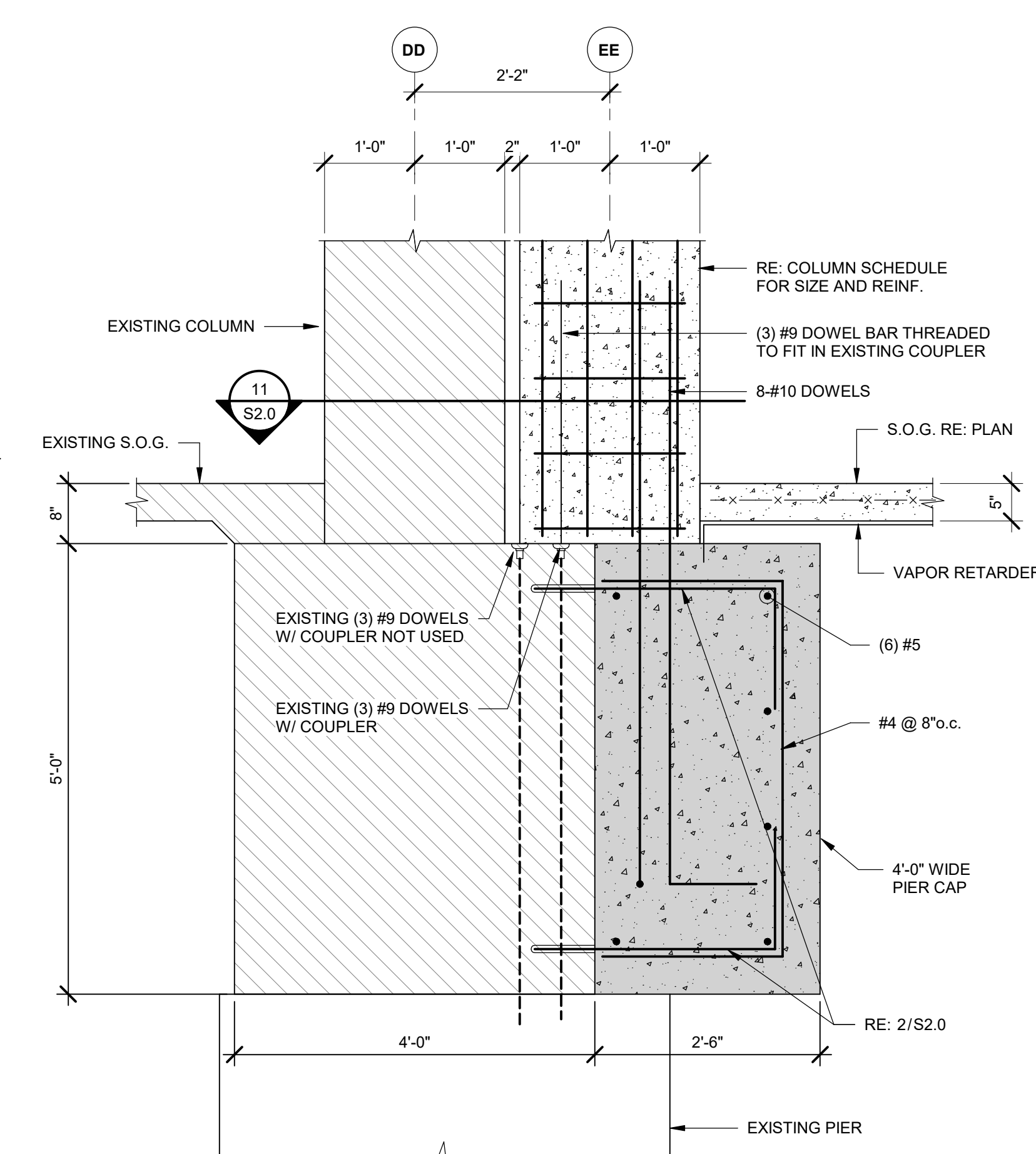
7 SECTION AT EXISTING TUNNEL  
1/4" = 1'-0"



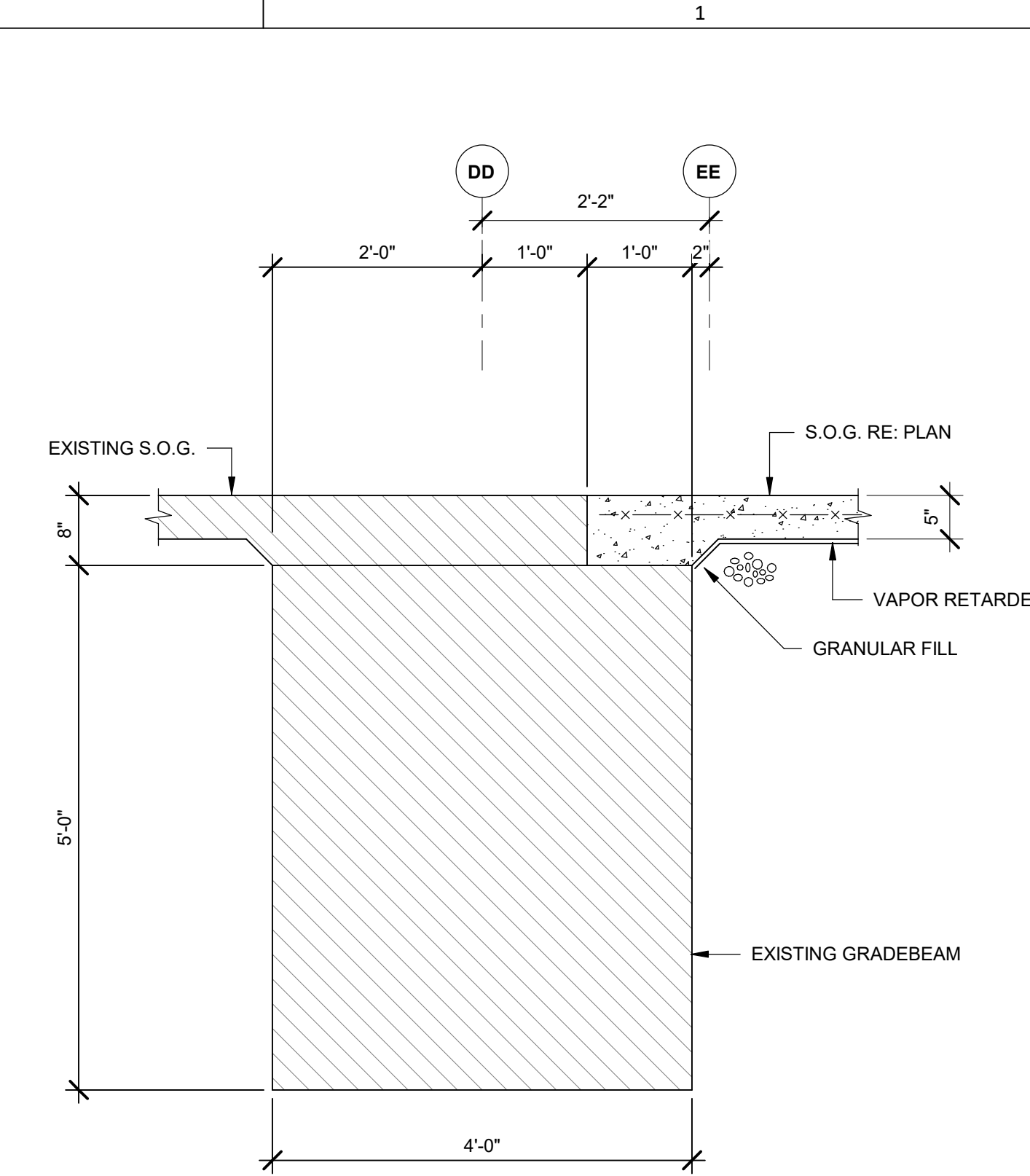
6 TYPICAL SECTION AT EXTERIOR GRADE BEAM  
3/4" = 1'-0"



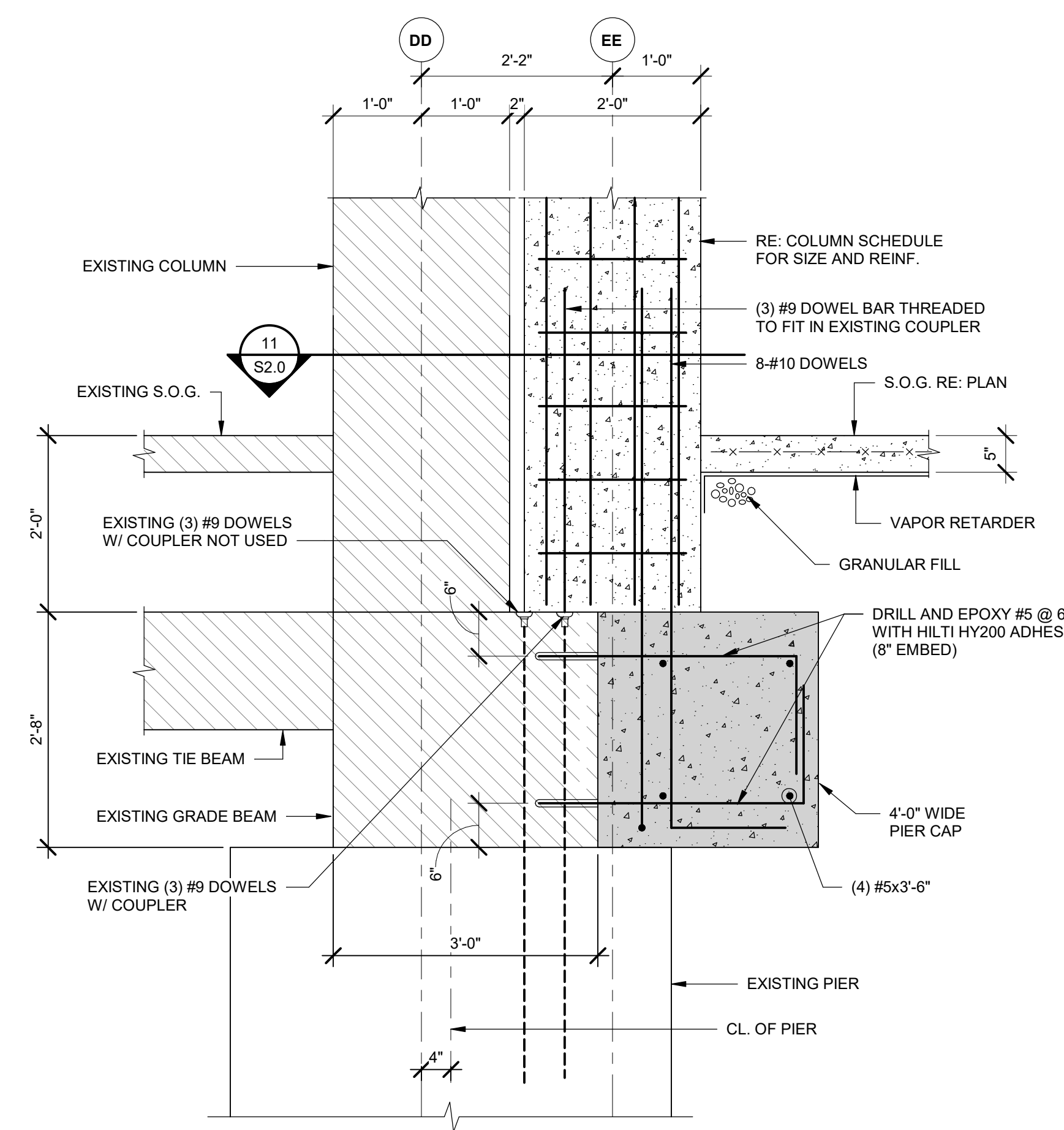
5 SECTION AT EXISTING FOUNDATION  
3/4" = 1'-0"



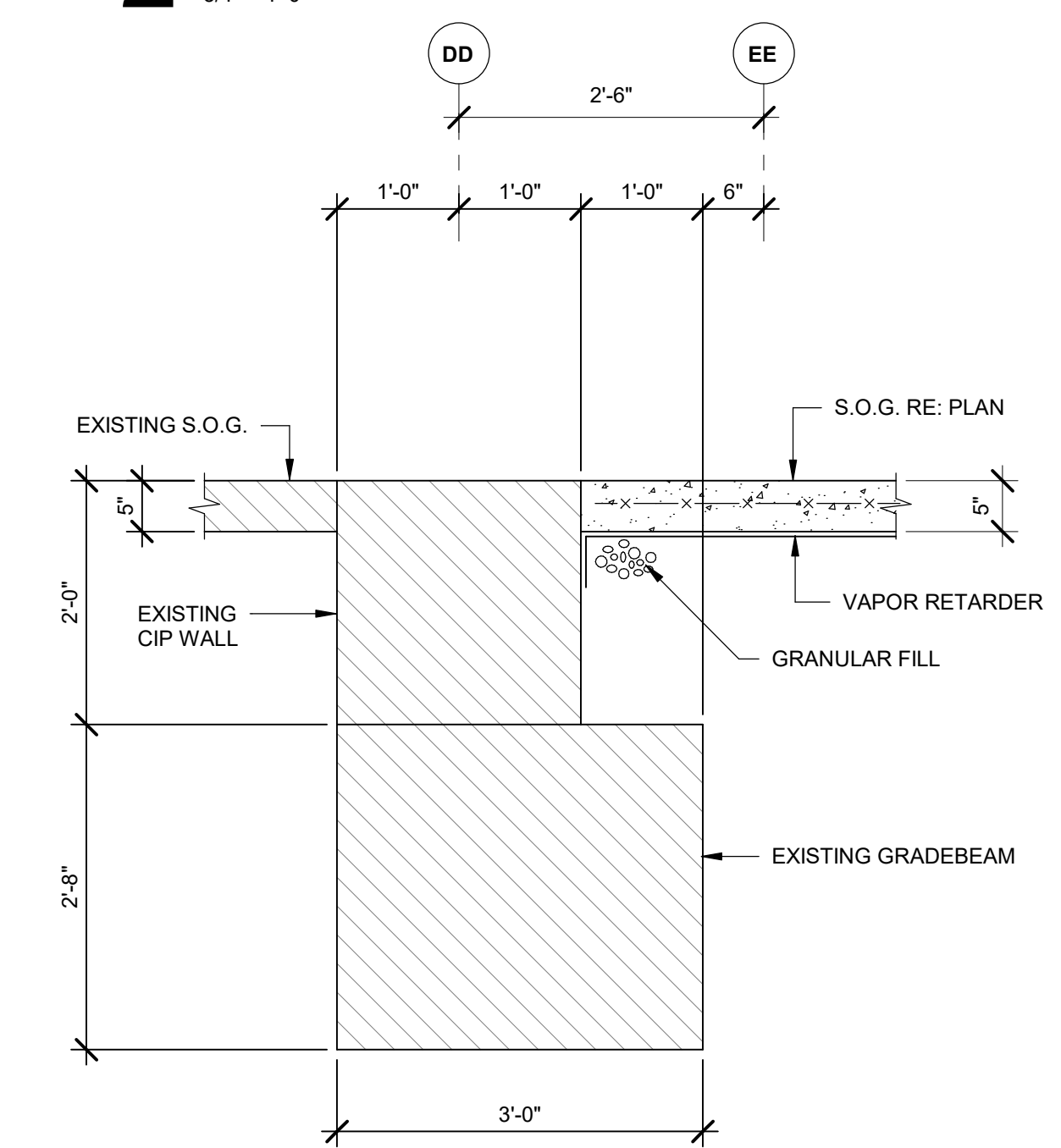
4 SECTION AT EXISTING FOUNDATION  
3/4" = 1'-0"



3 SECTION AT EXISTING FOUNDATION  
3/4" = 1'-0"



2 SECTION AT EXISTING FOUNDATION  
3/4" = 1'-0"



1 SECTION AT EXISTING FOUNDATION  
3/4" = 1'-0"

HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

RELEASED FOR CONSTRUCTION  
AS NOTED & DIMENSIONS SHOWN

Krishna G. Saha  
Professional Engineer  
Missouri PE #023862

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**CONSTRUCTION DOCUMENTS**

**Saint Luke's**  
EAST HOSPITAL  
ASC EXPANSION & RENOVATION  
100 NE Saint Luke's Blvd  
Lee's Summit, MO 64086

Date	01/20/2023
Job Number	3-21037
Drawn By	GEB
Checked By	KGS

Revision		
Number	Date	Description
1	01-20-23	ADDENDUM #1

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FOUNDATION DETAILS



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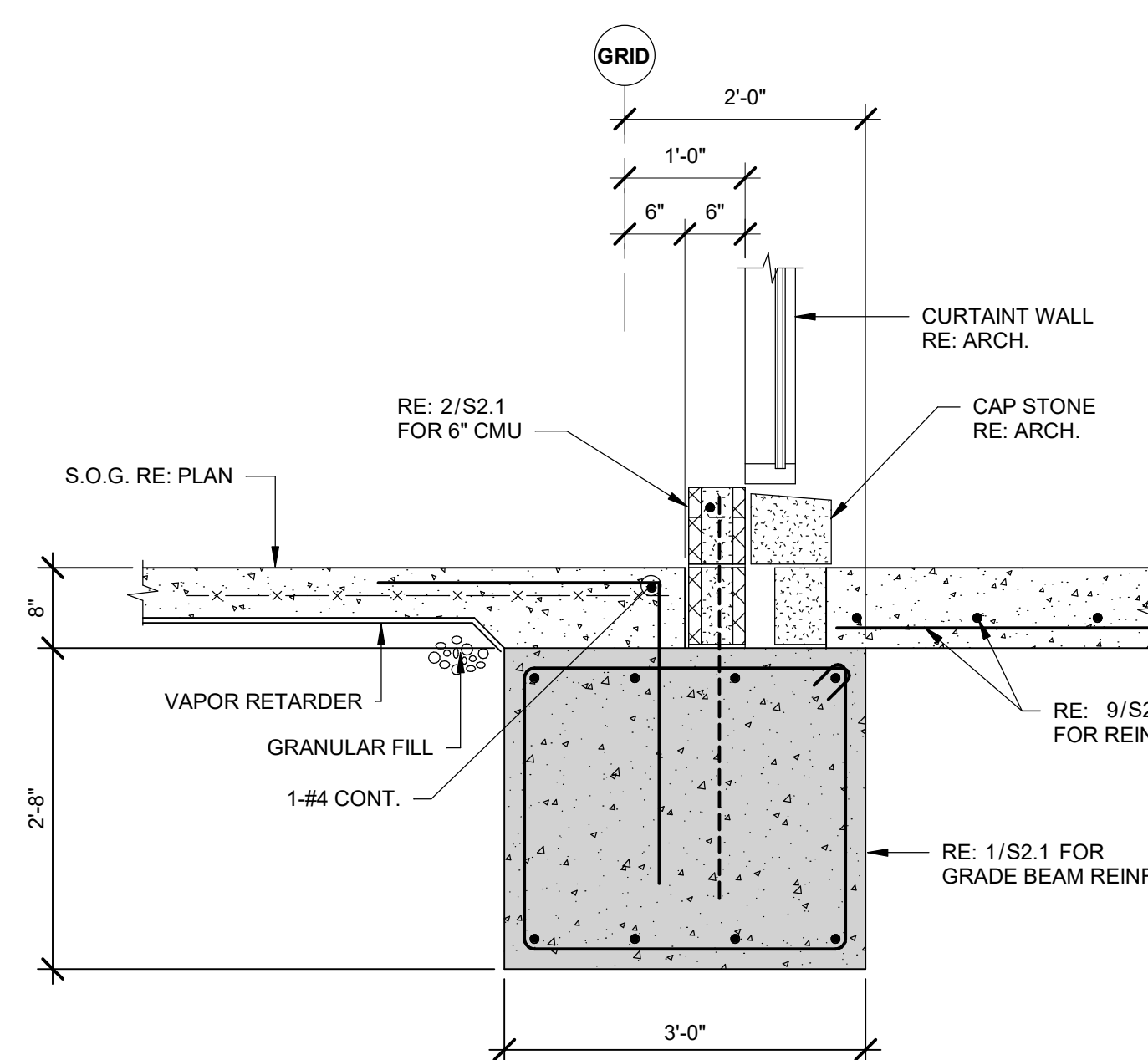
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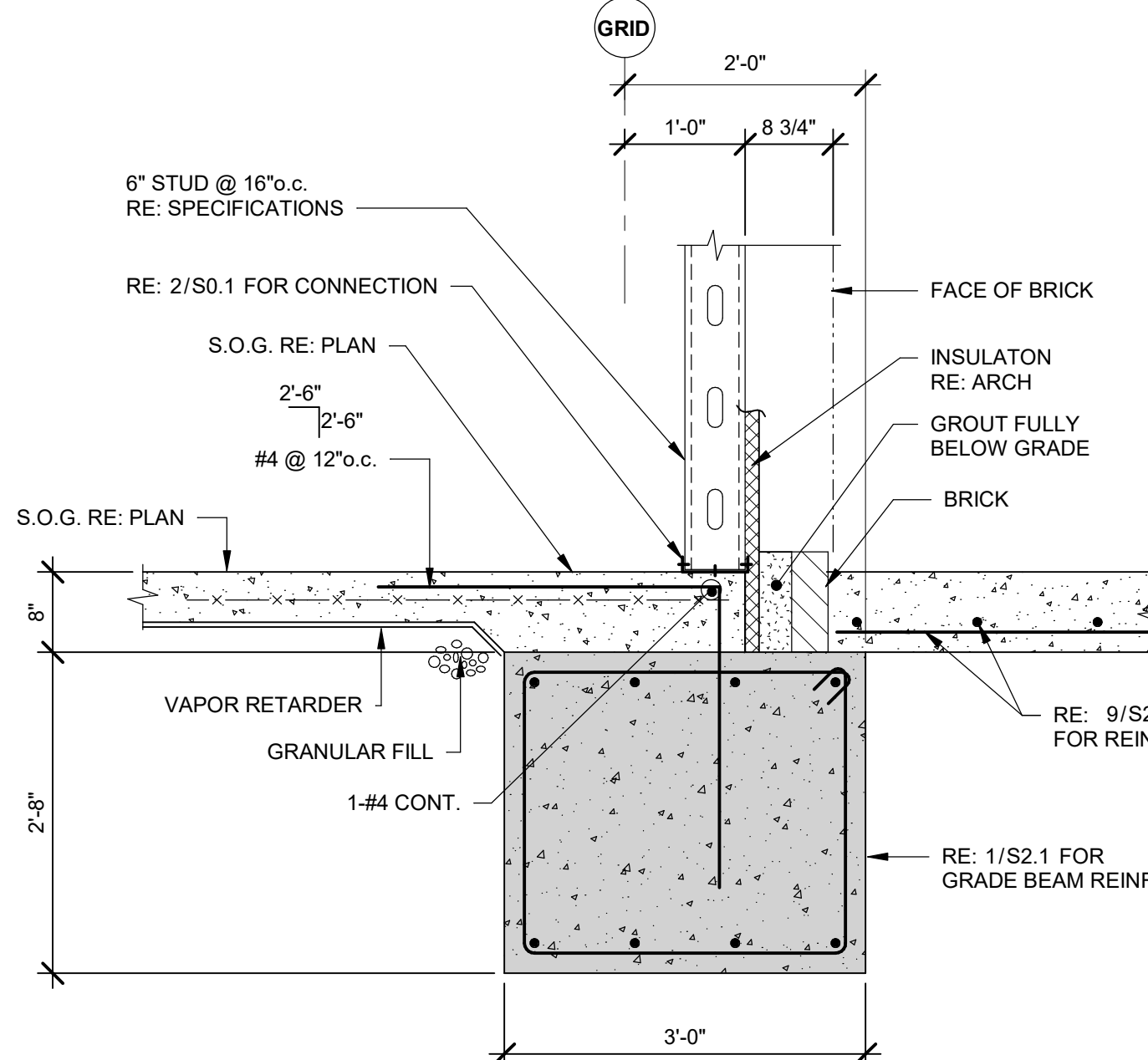
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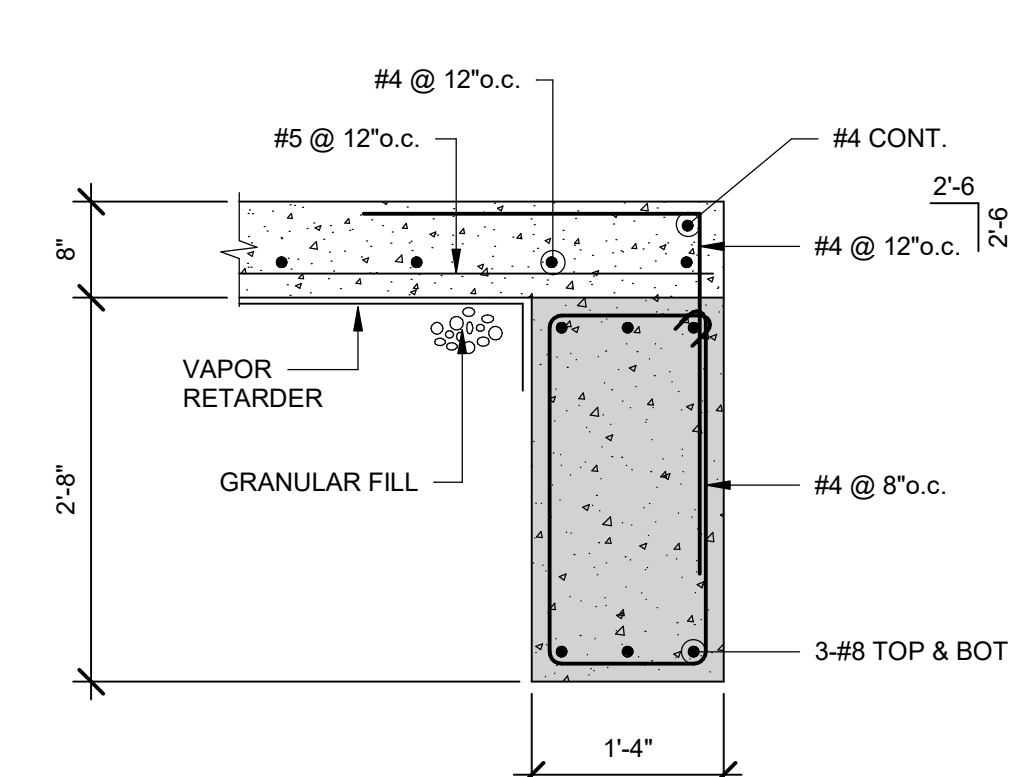
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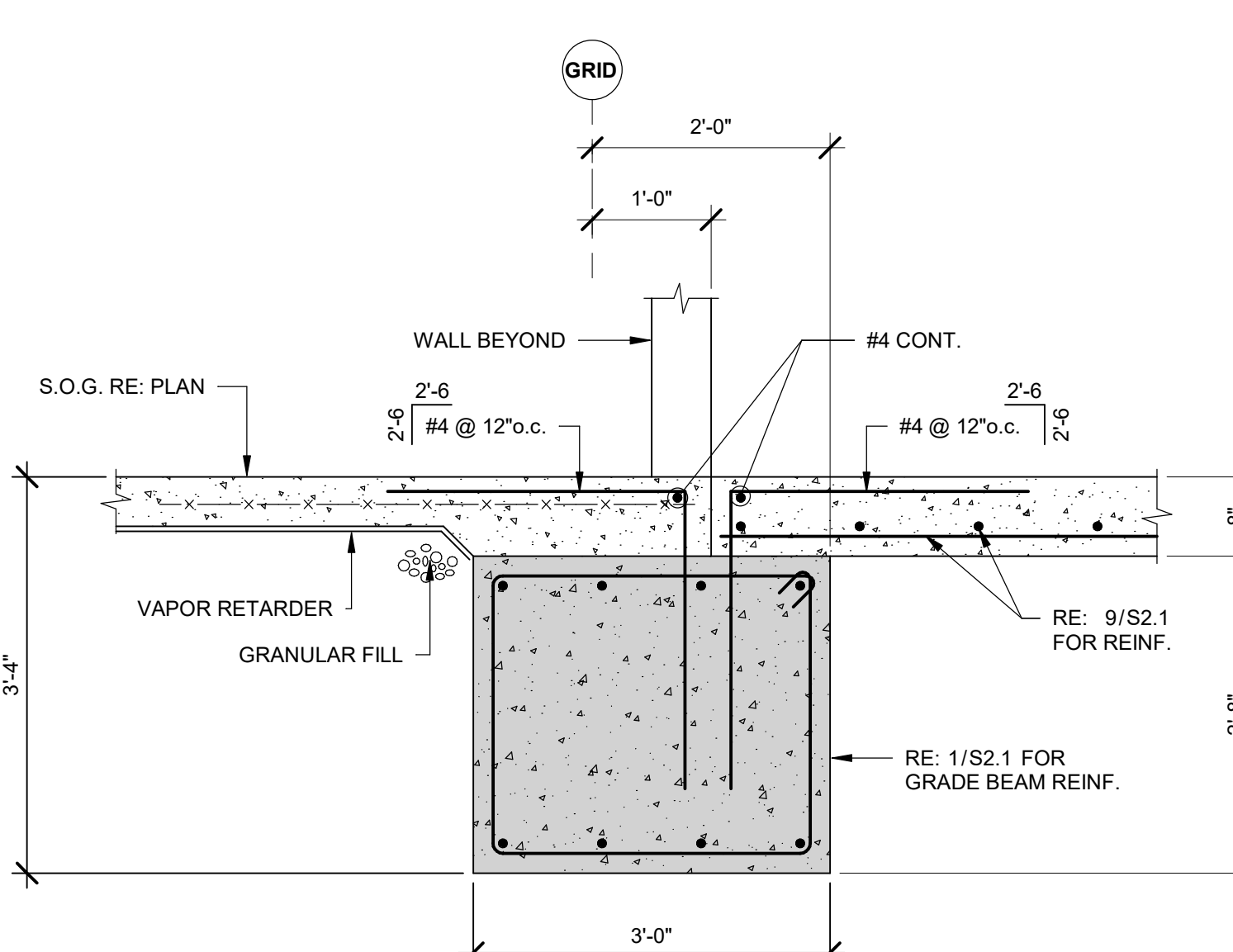
11 TYPICAL SECTION AT WINDOW  
3/4" = 1'-0"



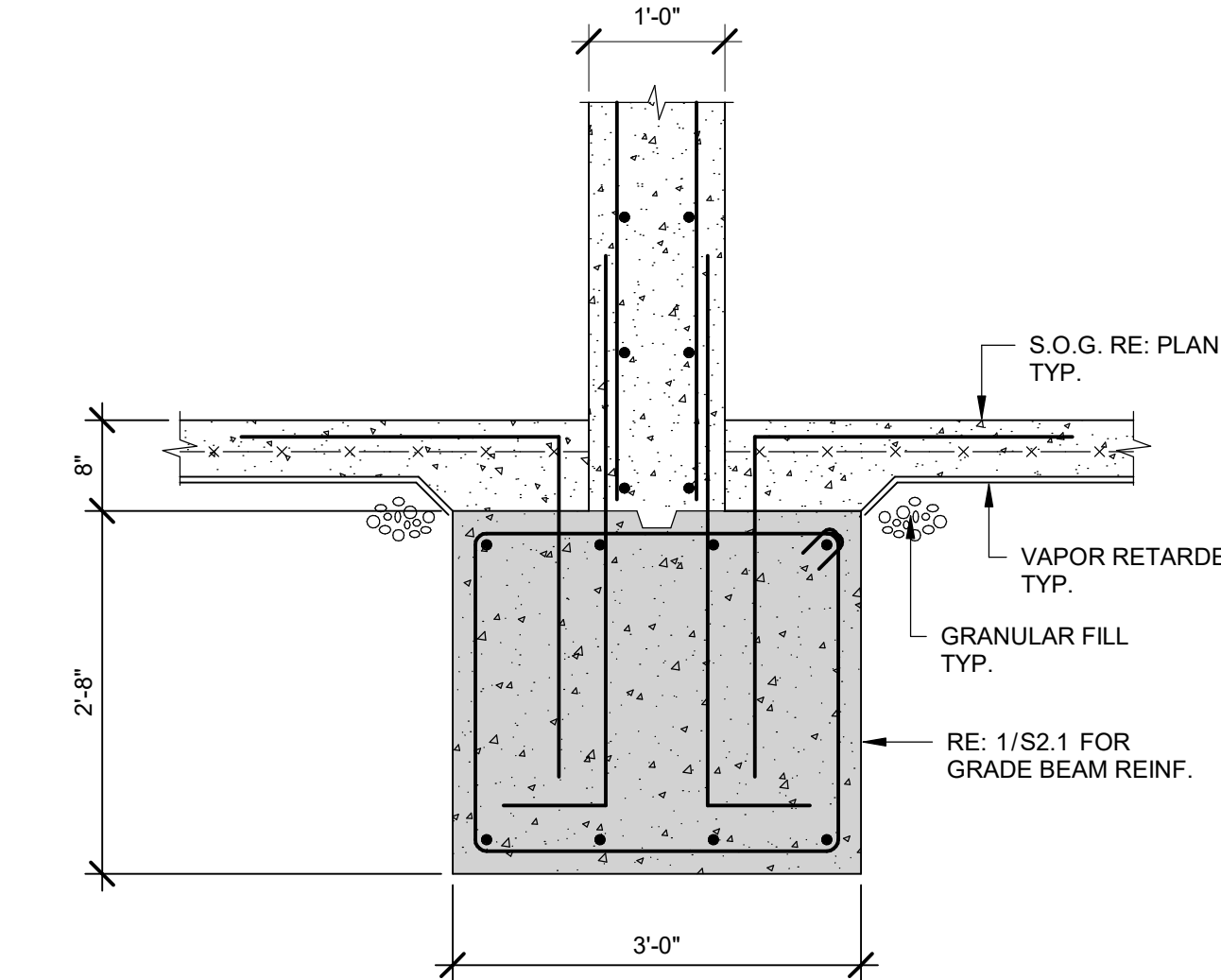
10 TYPICAL SECTION AT EXTERIOR WALL  
3/4" = 1'-0"



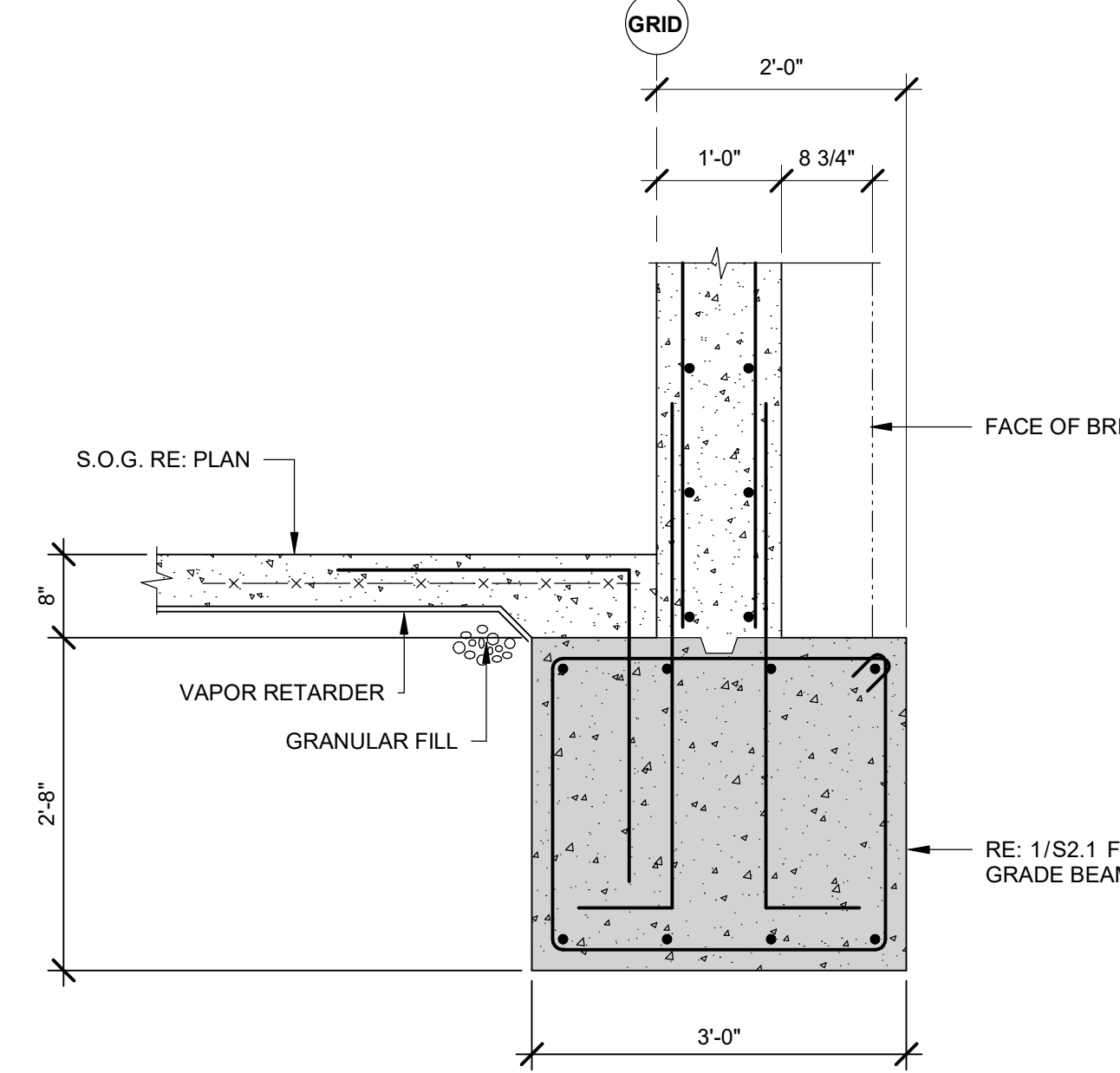
9 SECTION AT EXTERIOR STOOP  
3/4" = 1'-0"



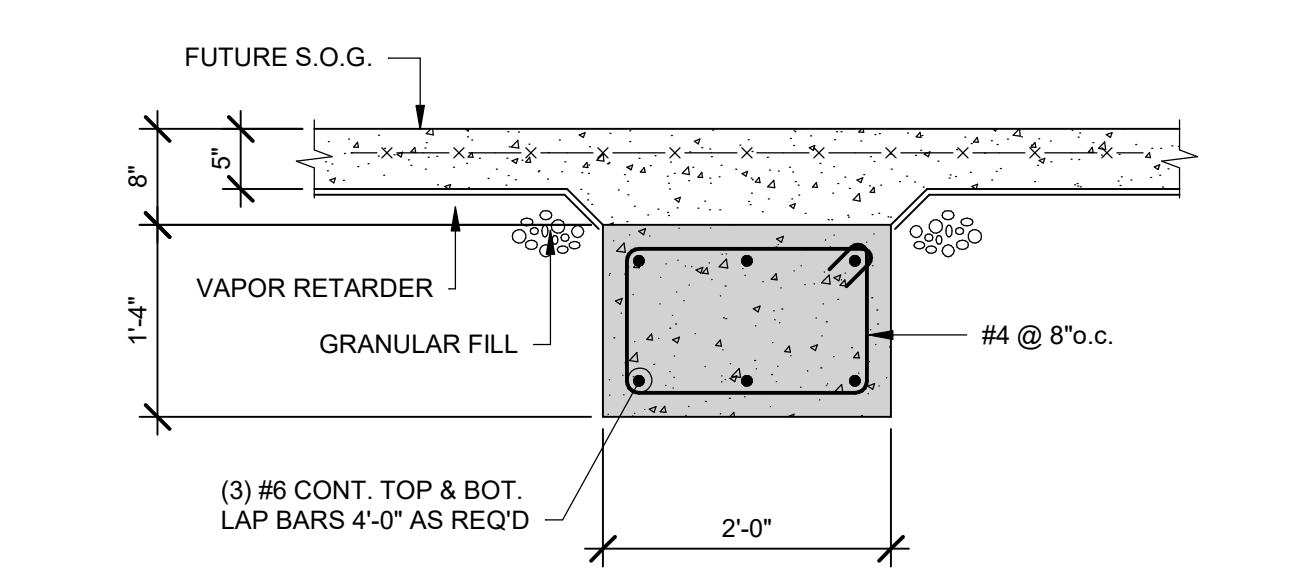
8 SECTION AT DOOR  
3/4" = 1'-0"



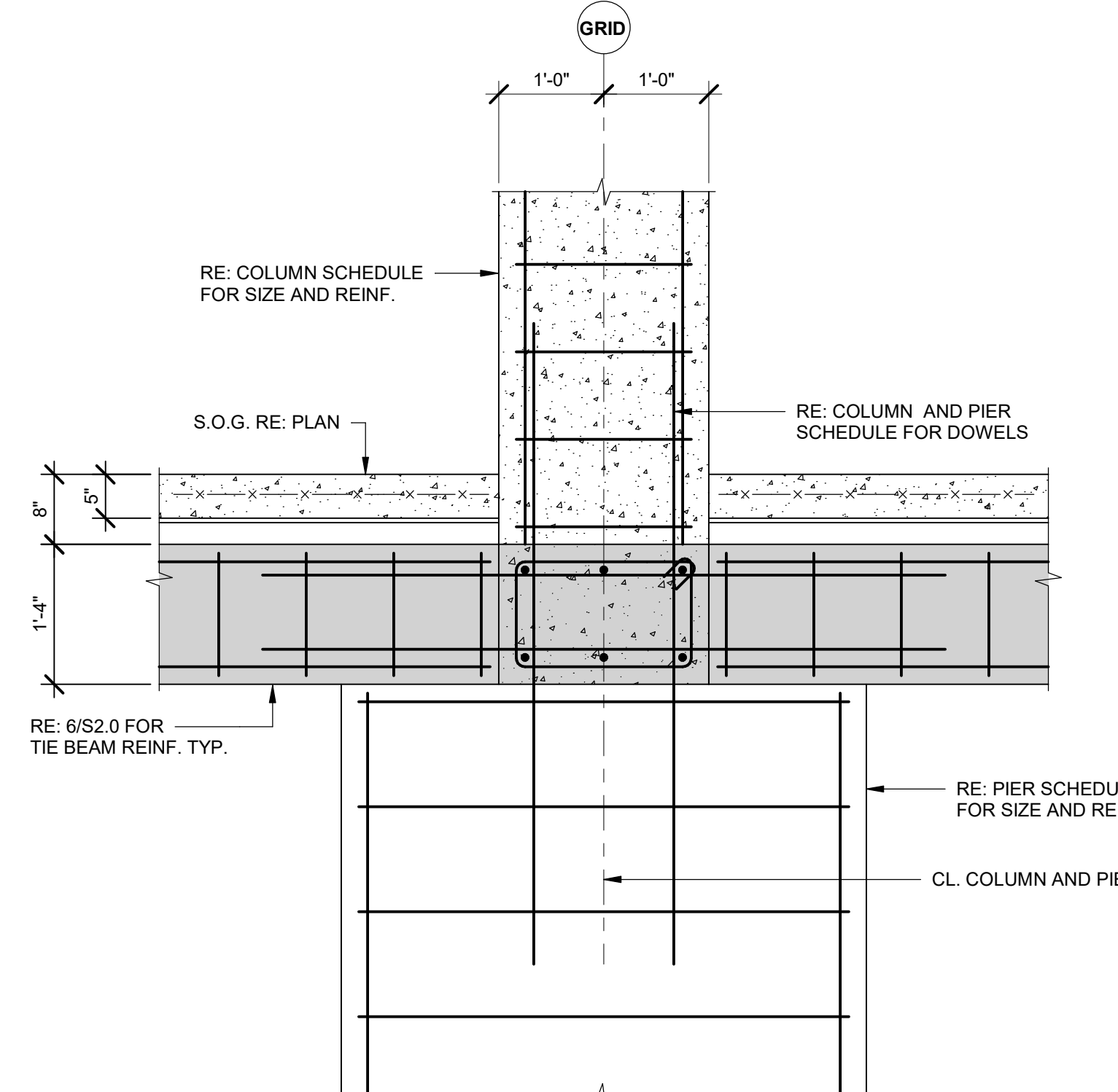
7 TYPICAL SECTION AT WINDOW  
3/4" = 1'-0"



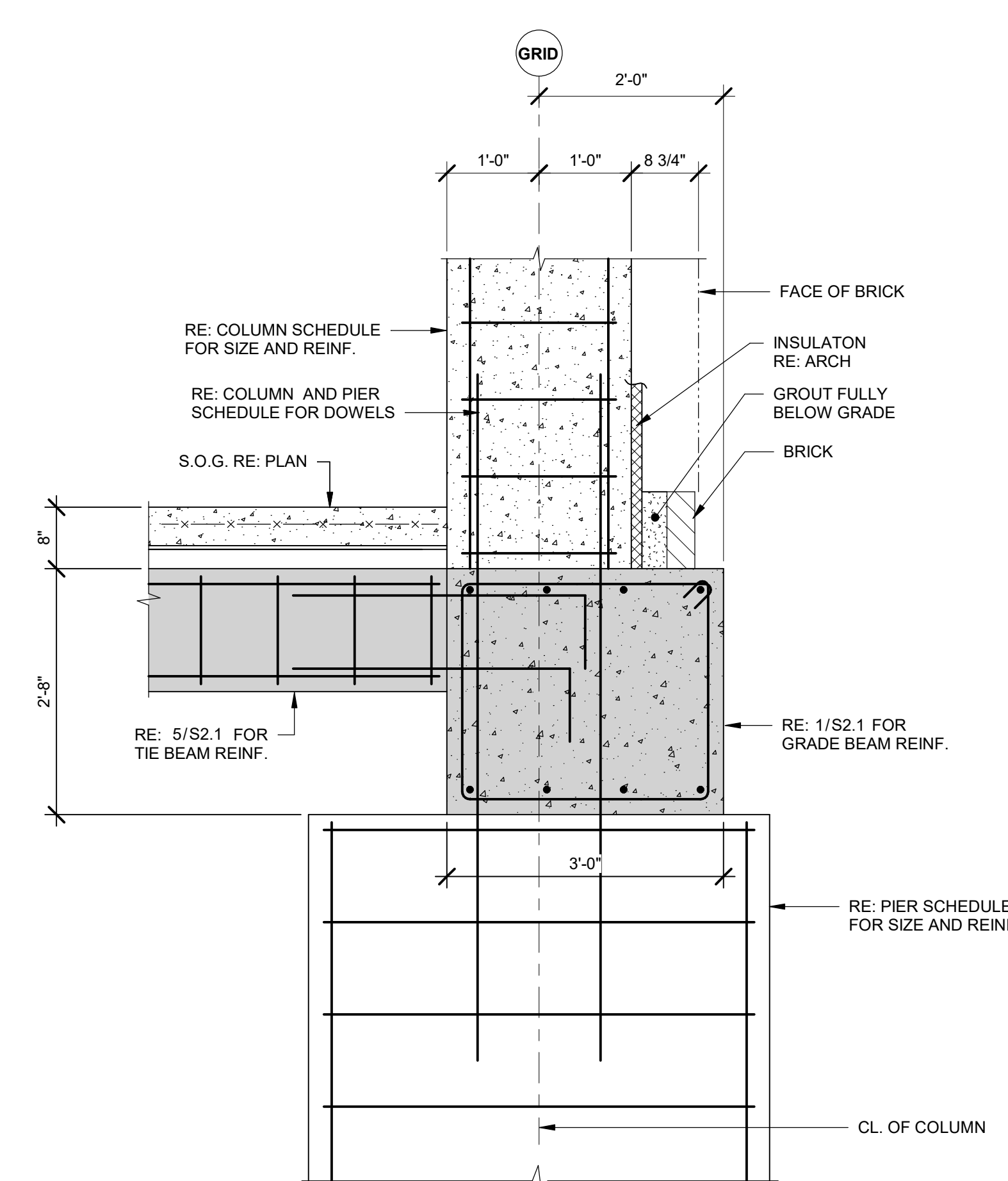
6 SECTION @ EXTERIOR WALL  
3/4" = 1'-0"



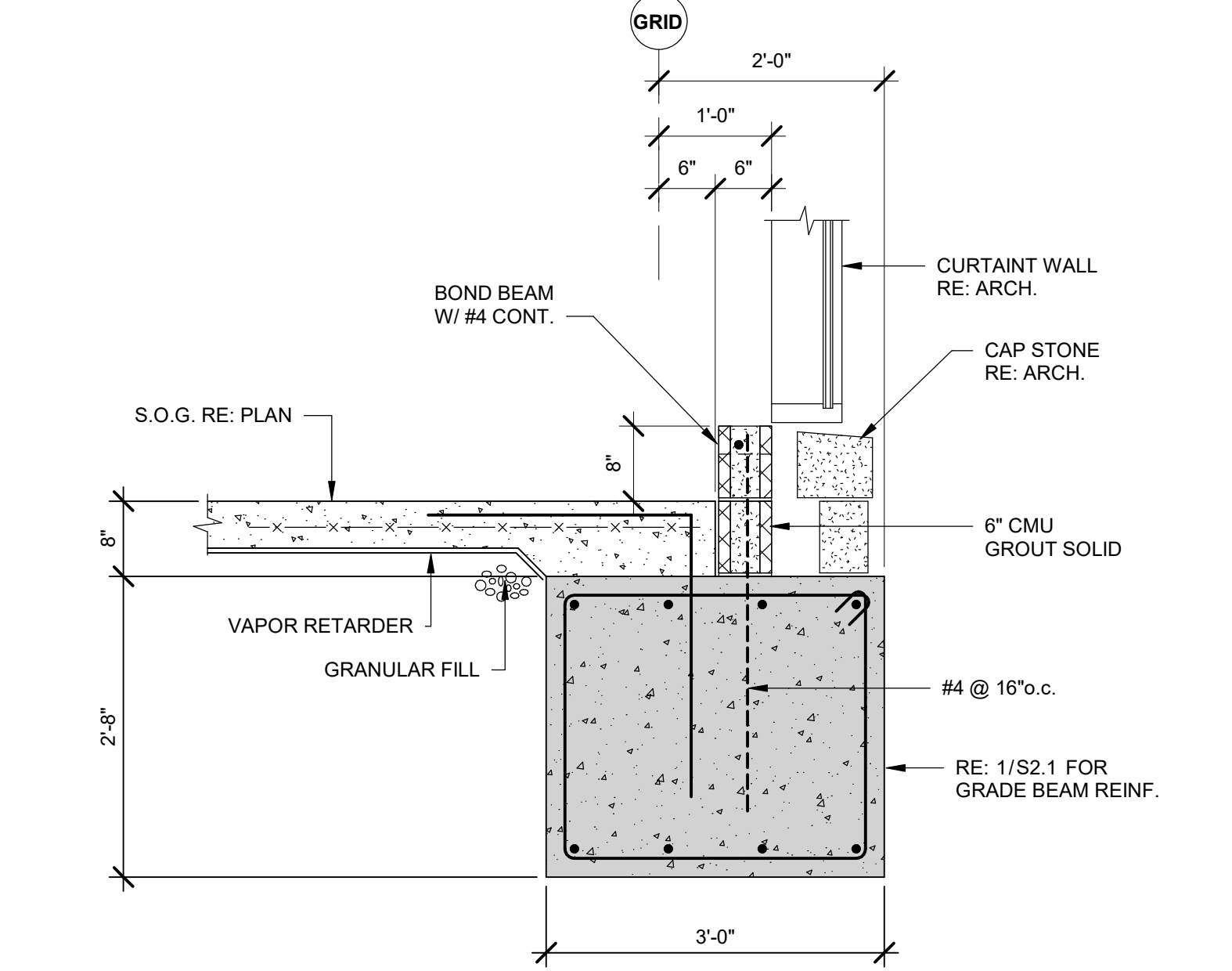
5 TYPICAL SECTION AT TIE BEAM  
3/4" = 1'-0"



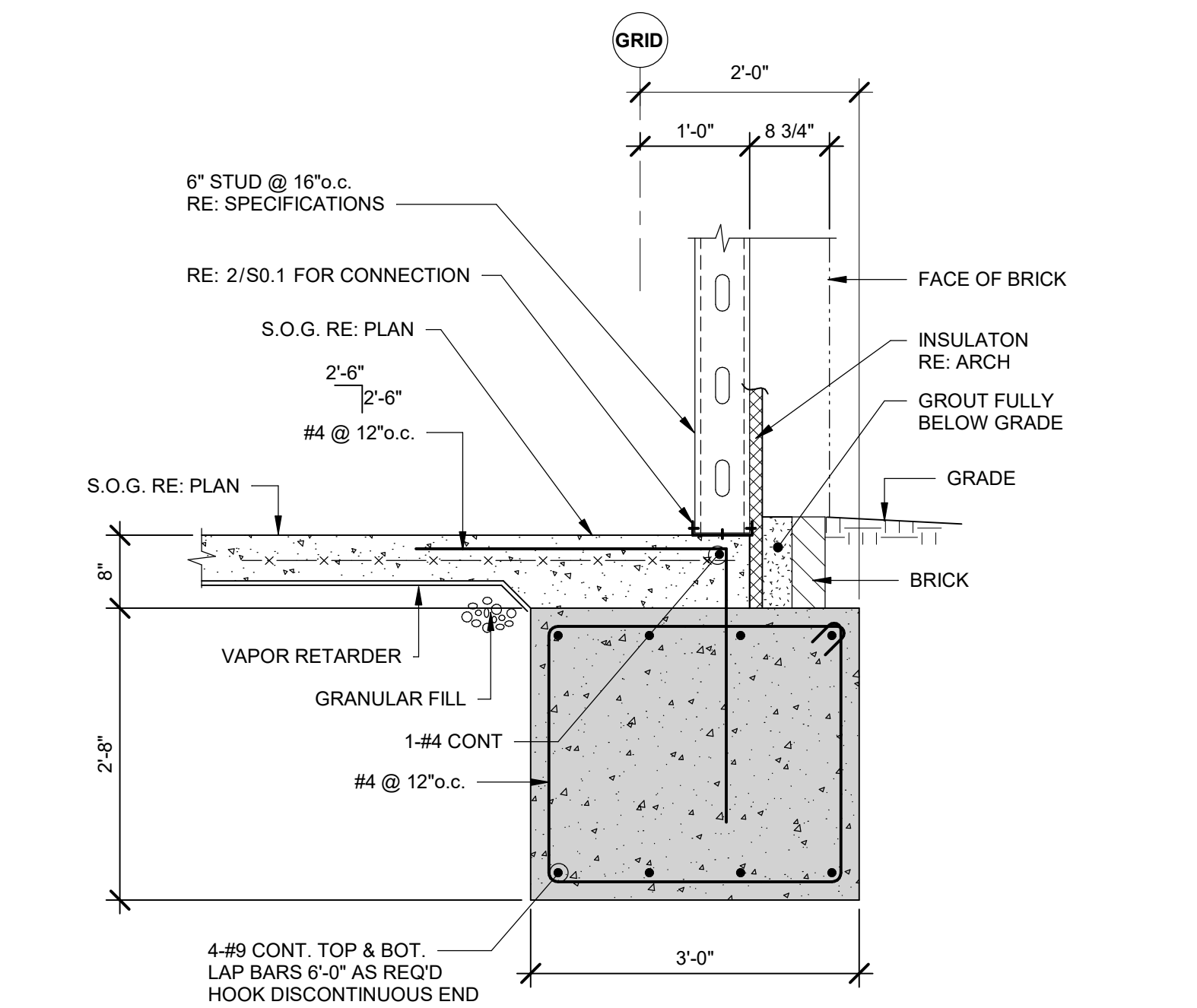
4 TYPICAL SECTION AT INTERIOR COL.  
3/4" = 1'-0"



3 TYPICAL SECTION AT EXTERIOR COL.  
3/4" = 1'-0"

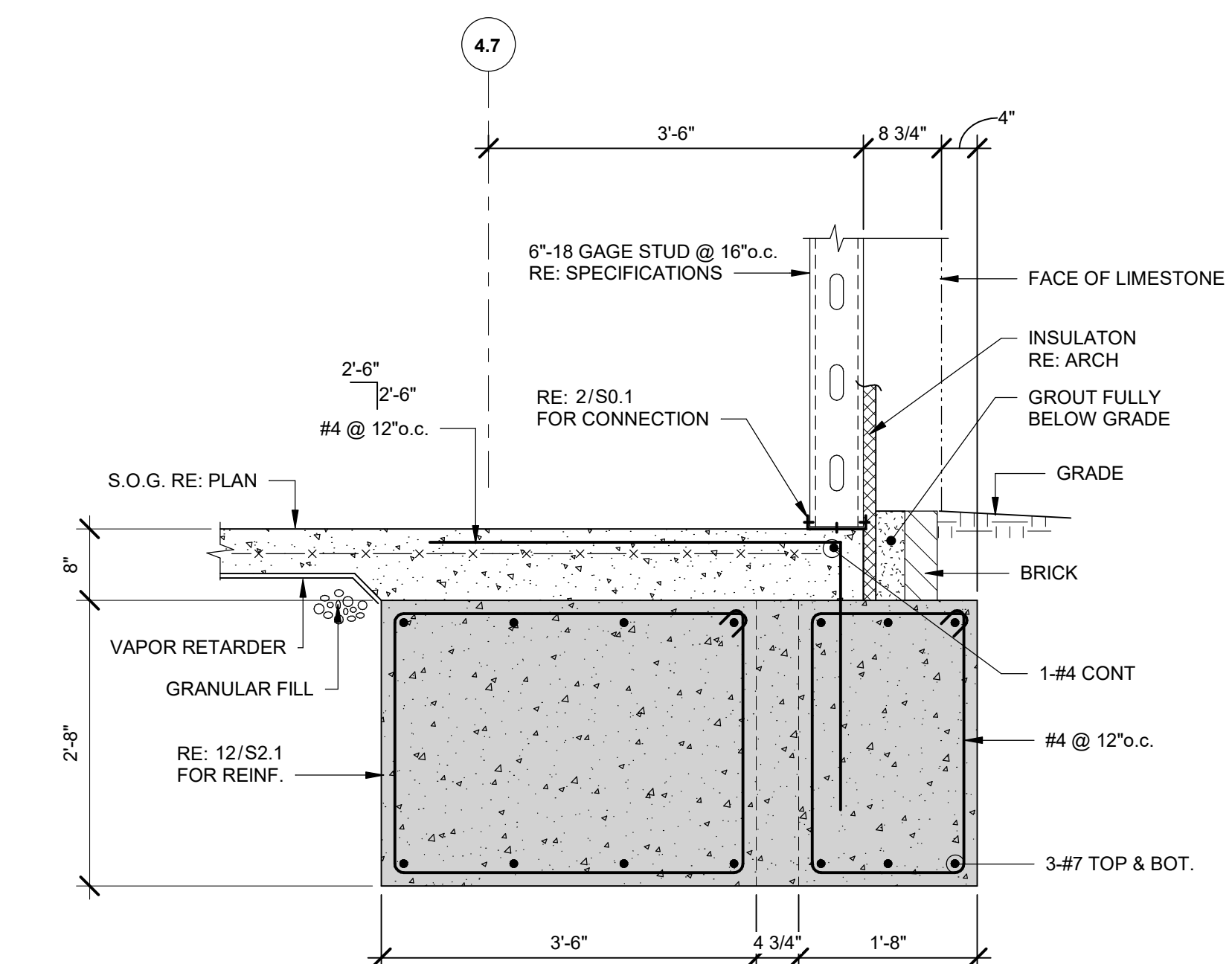


2 TYPICAL SECTION AT WINDOW  
3/4" = 1'-0"

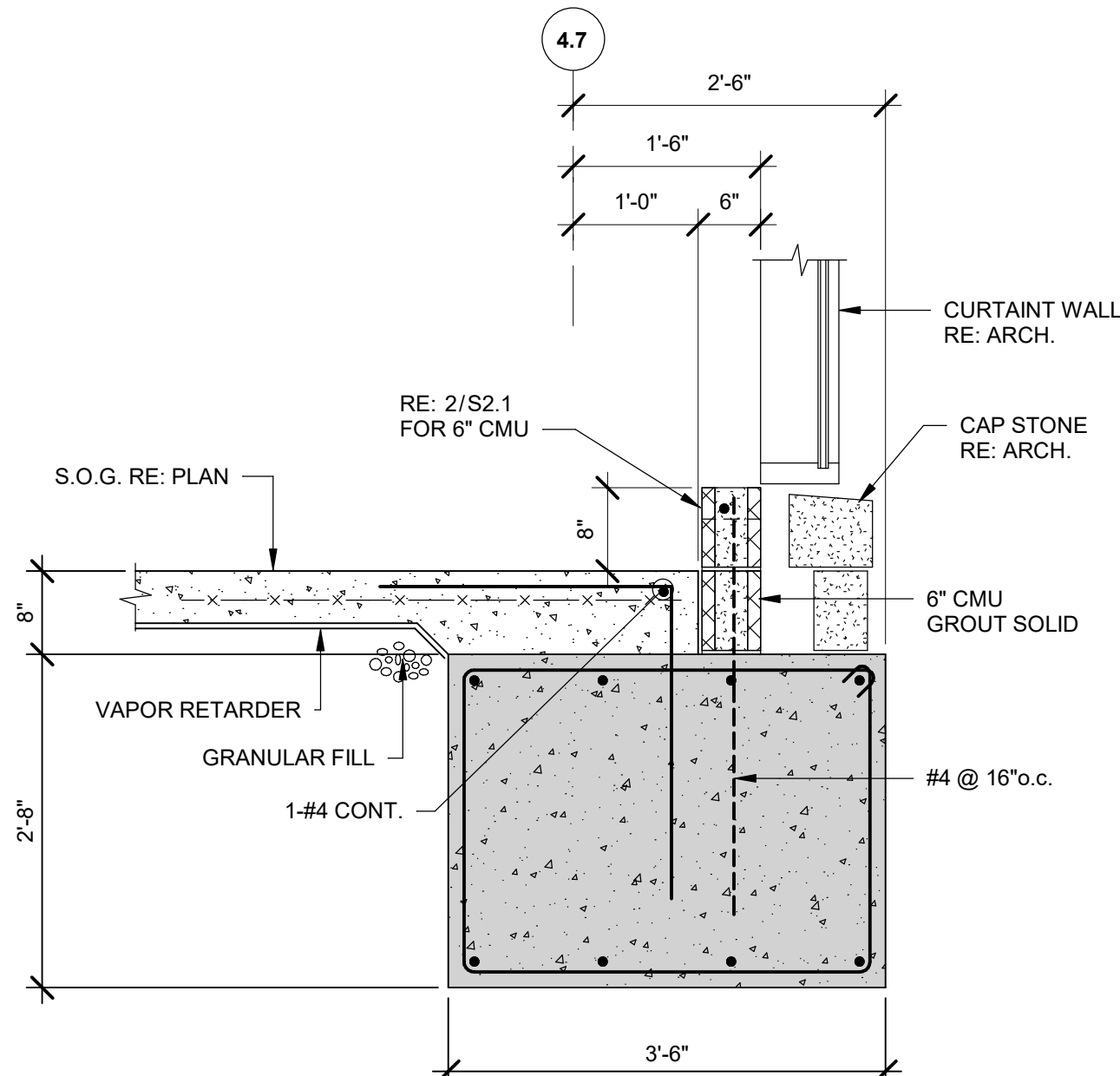


1 TYPICAL SECTION AT EXTERIOR WALL  
3/4" = 1'-0"

HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE



13 TYPICAL SECTION AT EXTERIOR WALL  
3/4" = 1'-0"



12 SECTION AT WINDOW  
3/4" = 1'-0"

RELEASED FOR CONSTRUCTION

ACI/BOLAND ARCHITECTS

Krishna G. Saha

Professional Engineer

License - Missouri PE #023862

ACI/BOLAND ARCHITECTS

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Saint Luke's

EAST HOSPITAL

ASC EXPANSION & RENOVATION

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Lee's Summit, MO 64086

CONSTRUCTION DOCUMENTS

Date: 01/20/2023

Job Number: 3-21037

Drawn By: GEB

Checked By: KGS

Revision

Number	Date	Description
1	01-20-23	ADDENDUM #1

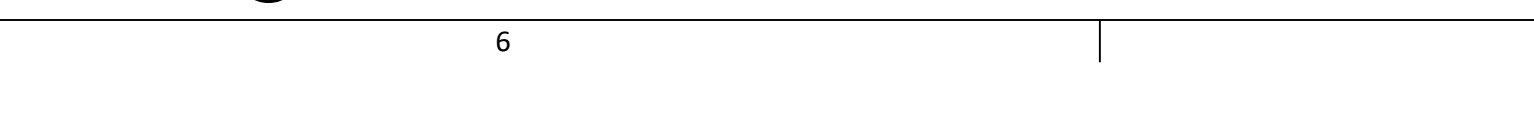
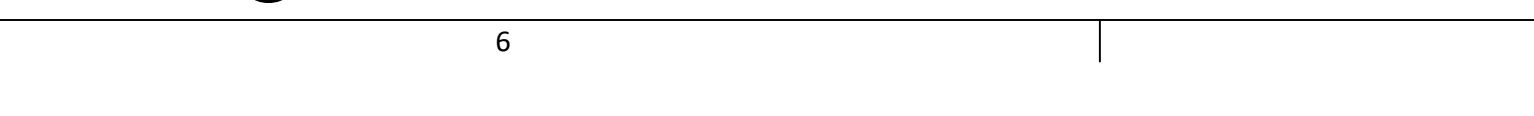
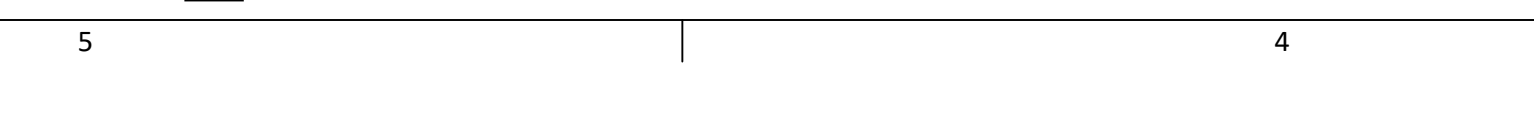
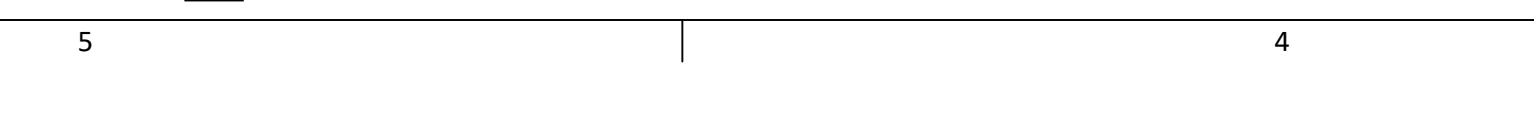
GRADING, FOOTING, AND FOUNDATION PACKAGE

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FOUNDATION DETAILS







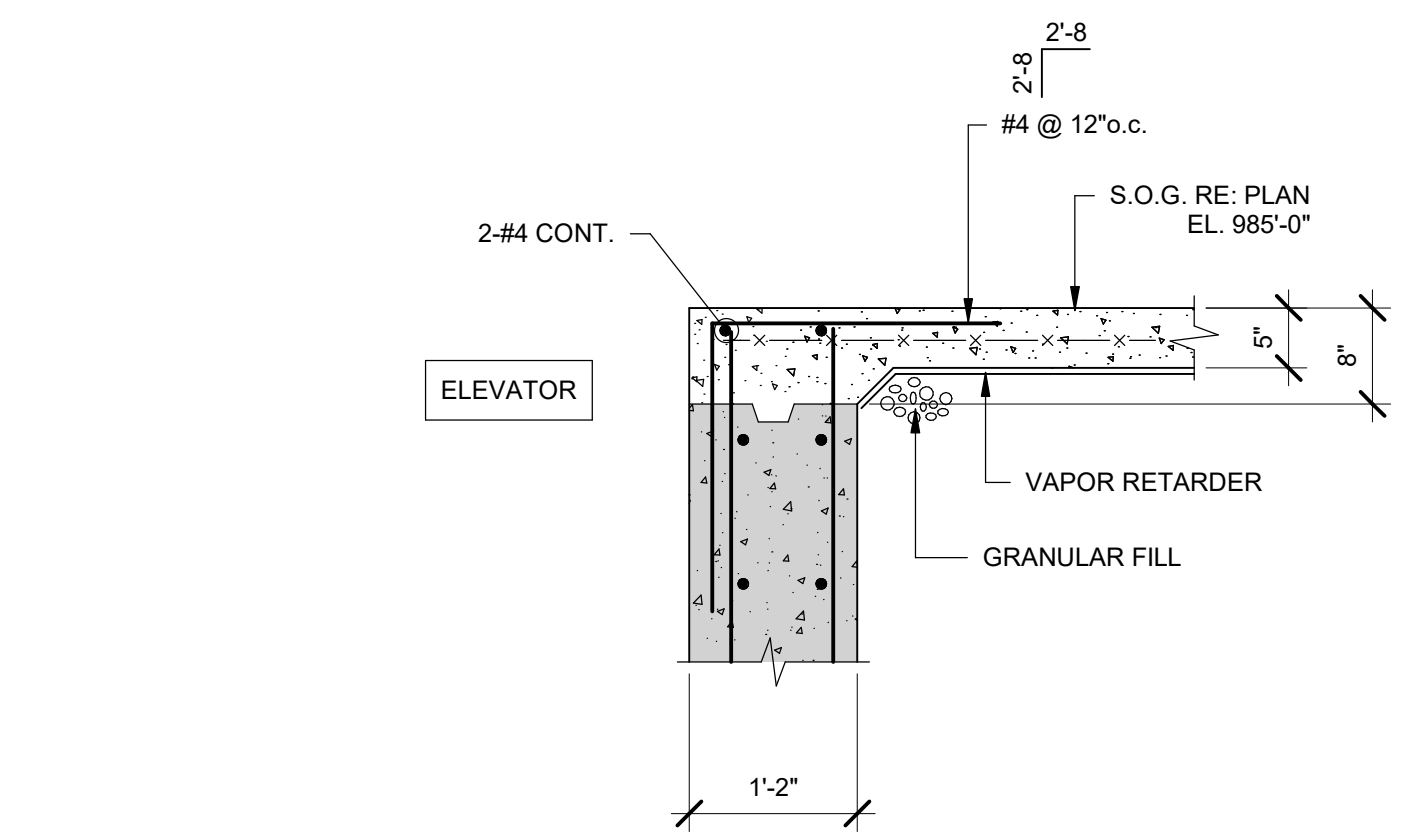
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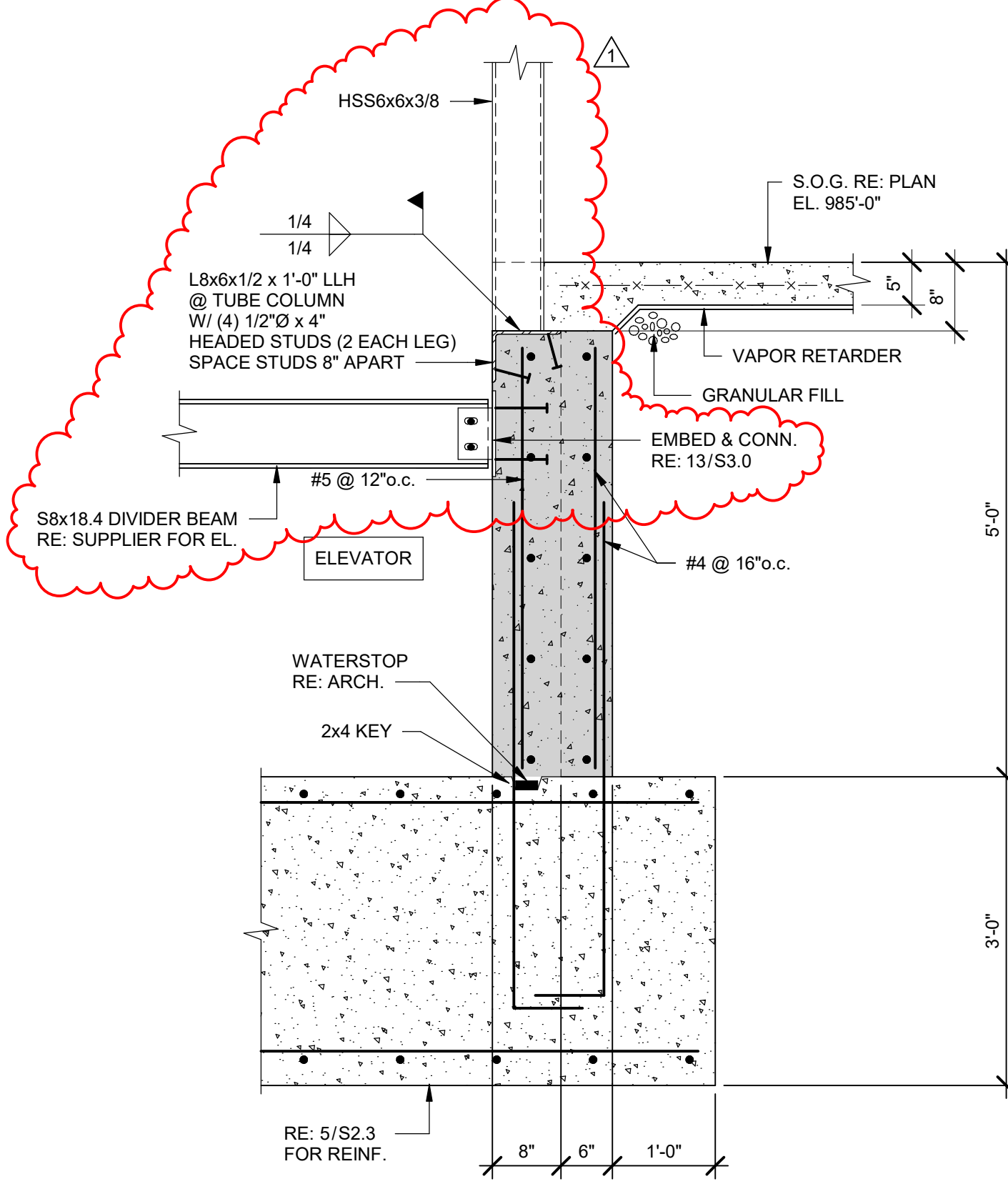
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DETAIL  
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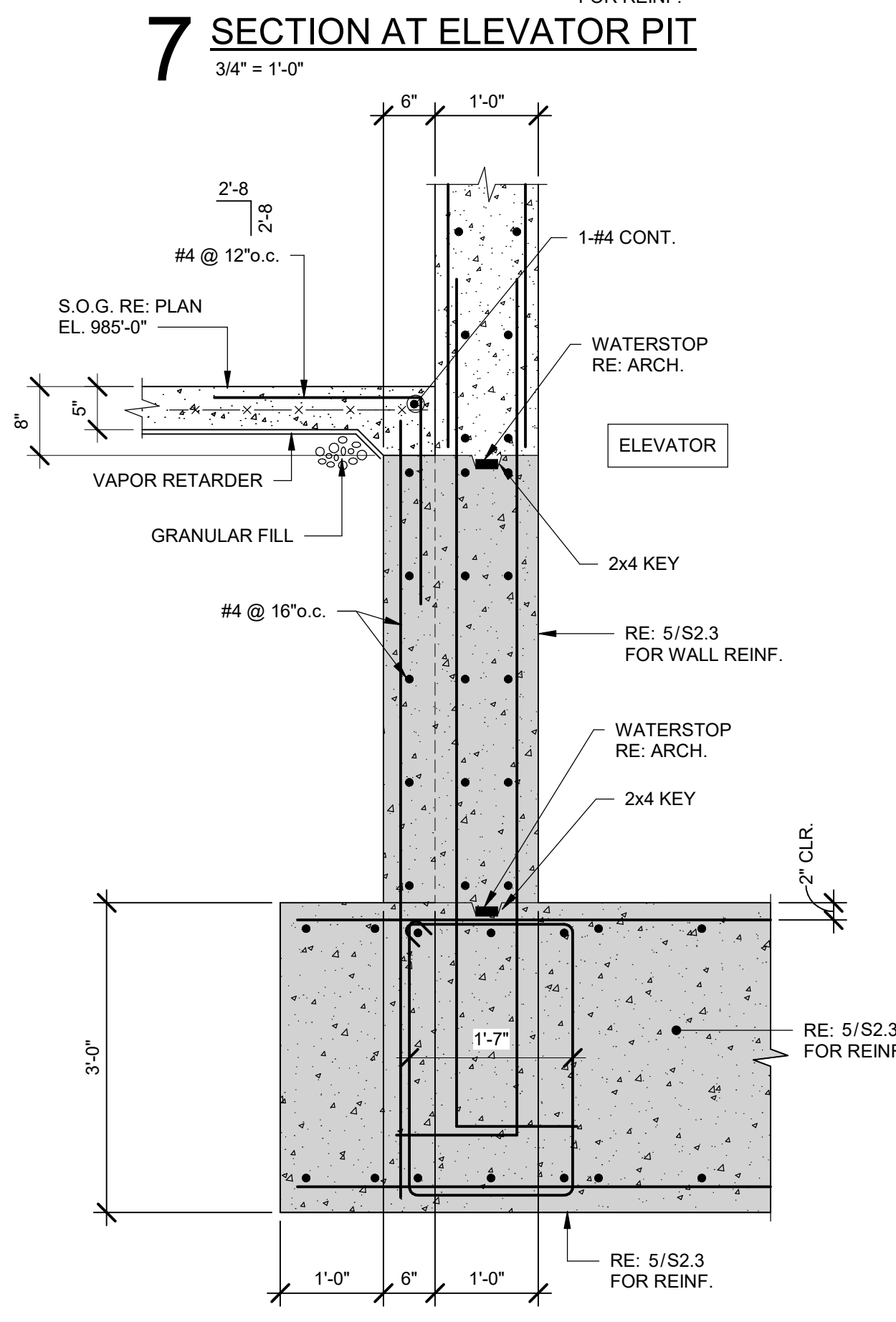
10 SECTION AT DOOR INFILL  
3/4" = 1'-0"



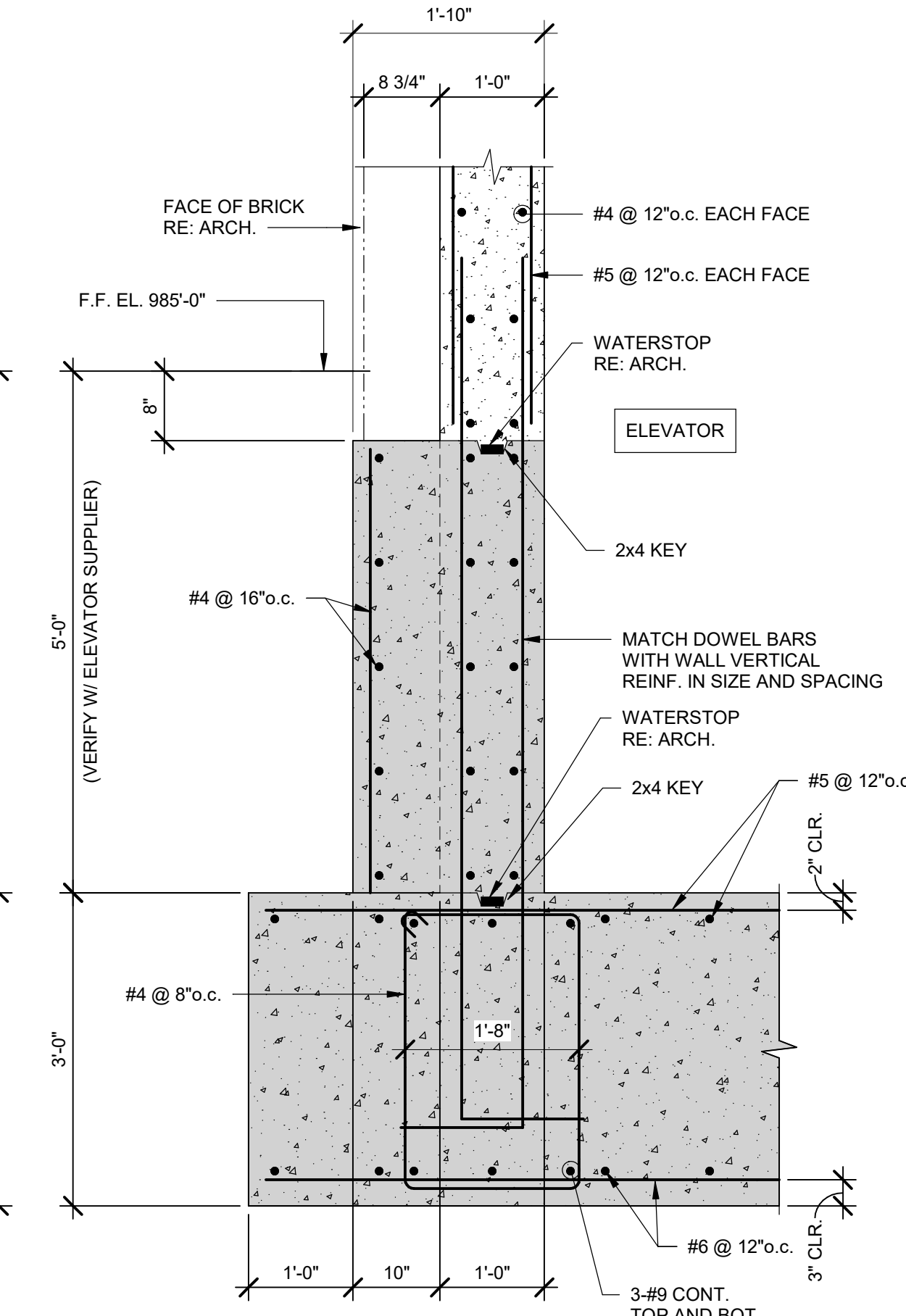
9 SECTION AT ELEVATOR DOOR  
3/4" = 1'-0"



8 SECTION AT ELEVATOR PIT  
3/4" = 1'-0"

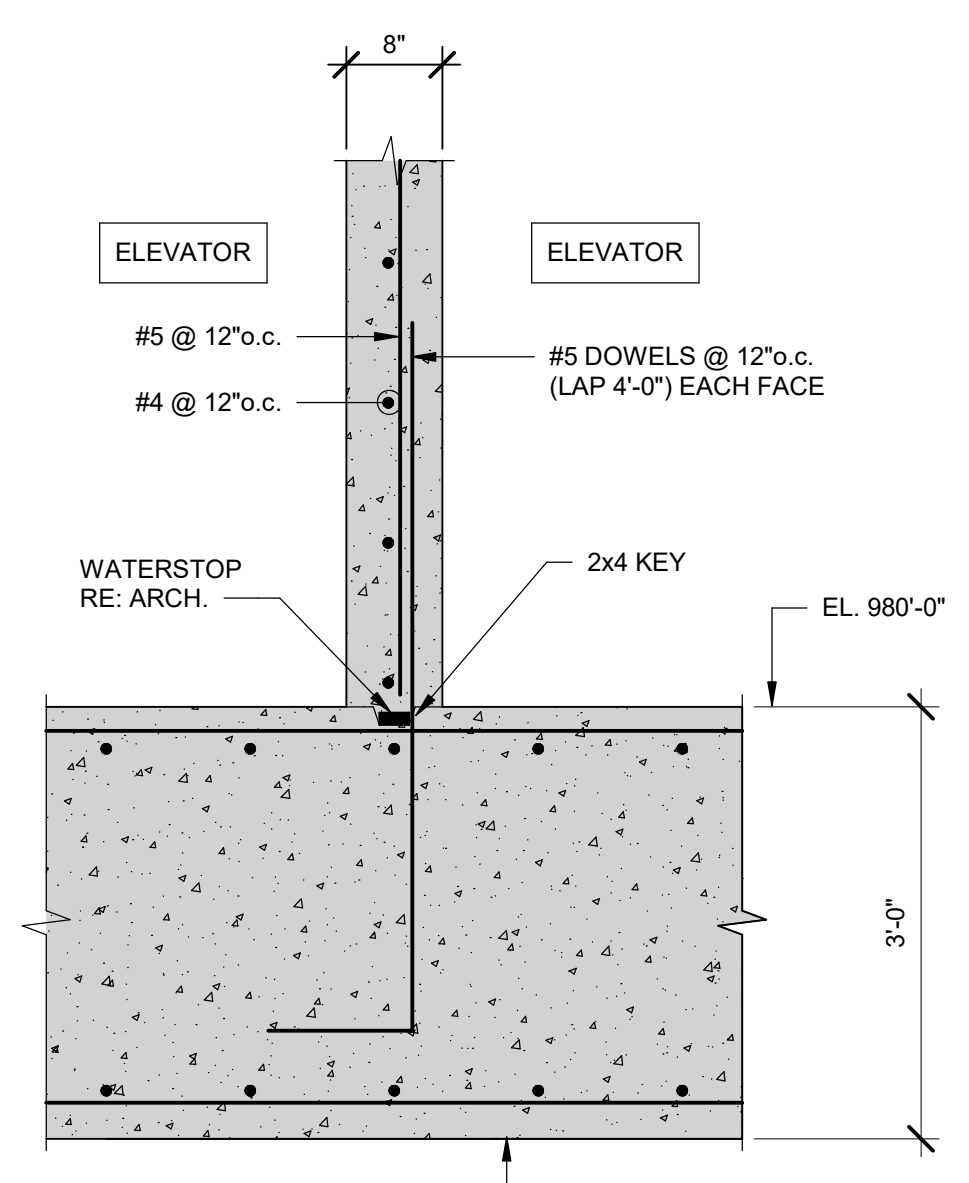


6 SECTION AT ELEVATOR PIT  
3/4" = 1'-0"



5 SECTION AT ELEVATOR PIT  
3/4" = 1'-0"

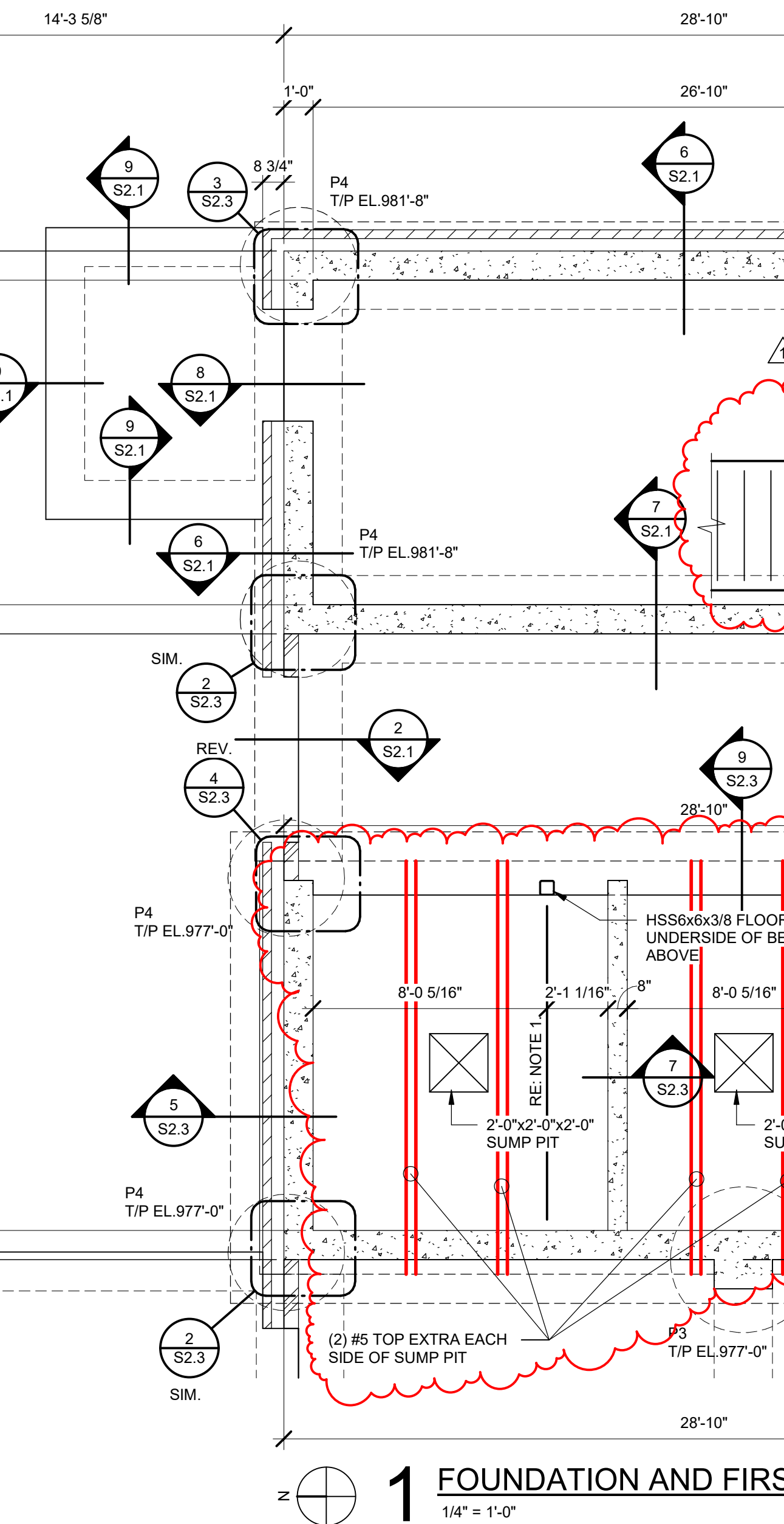
7 SECTION AT ELEVATOR PIT  
3/4" = 1'-0"



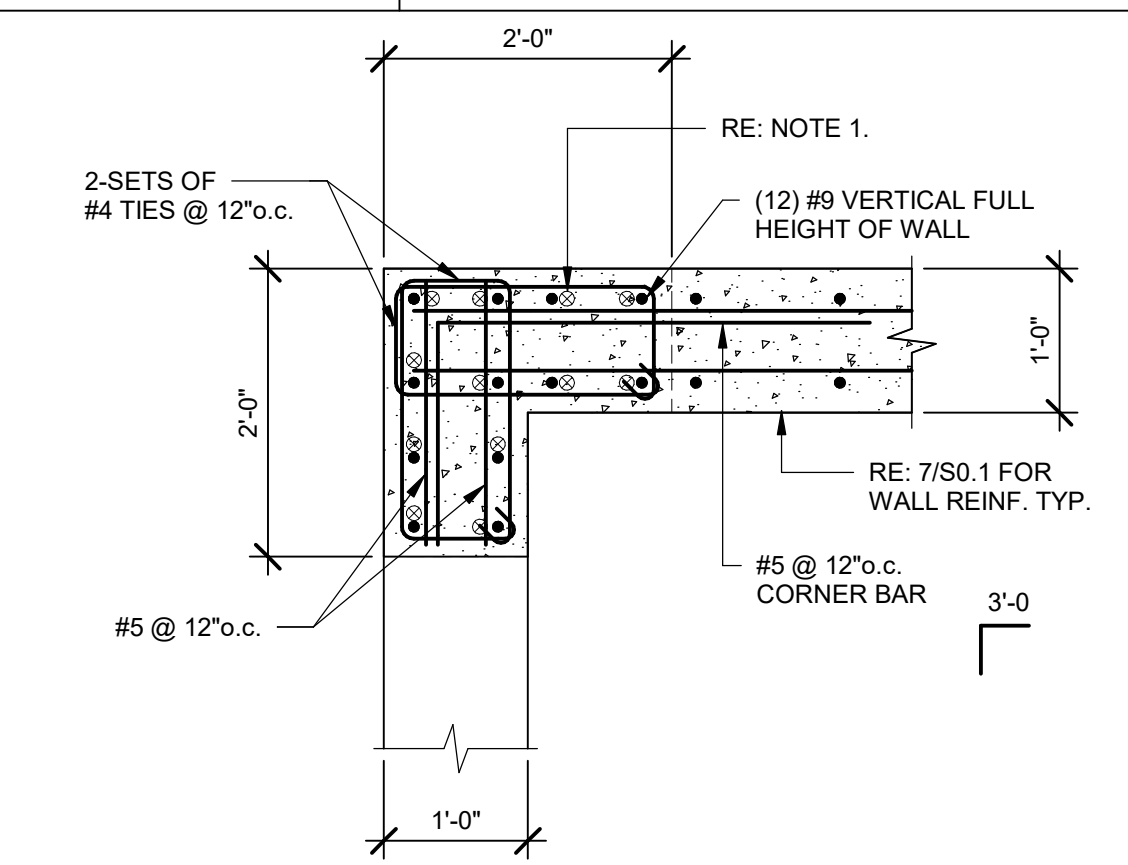
3 SECTION AT INTERIOR WALL  
3/4" = 1'-0"

- NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 12/S2.3).
  2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

4 PLAN SECTION AT INTERIOR WALL  
3/4" = 1'-0"

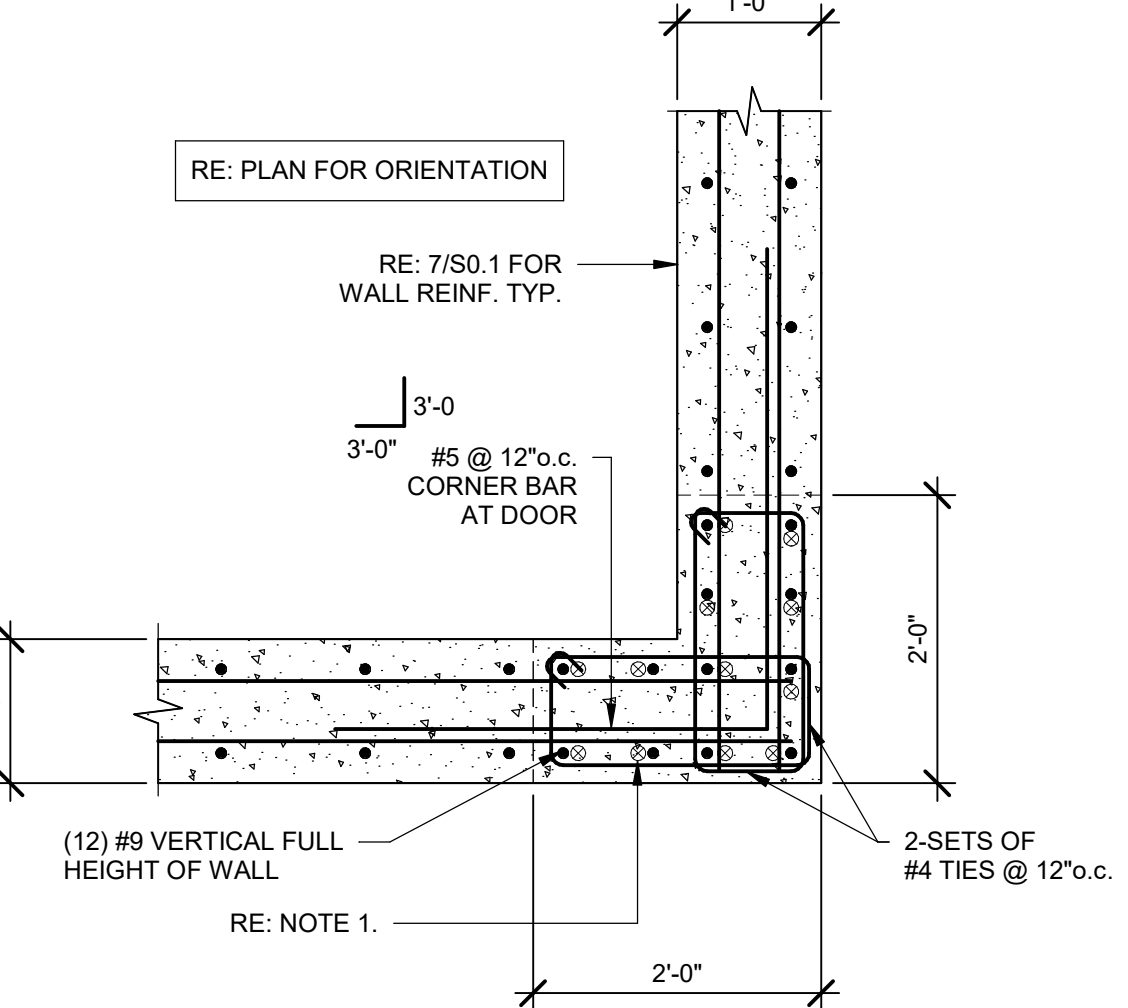


NOTE:  
FOUNDATION PACKAGE NCLUDES DRILLED PIERS  
GRAD BEAMS/FOOTING, WALL AND COLUMN DOWELS



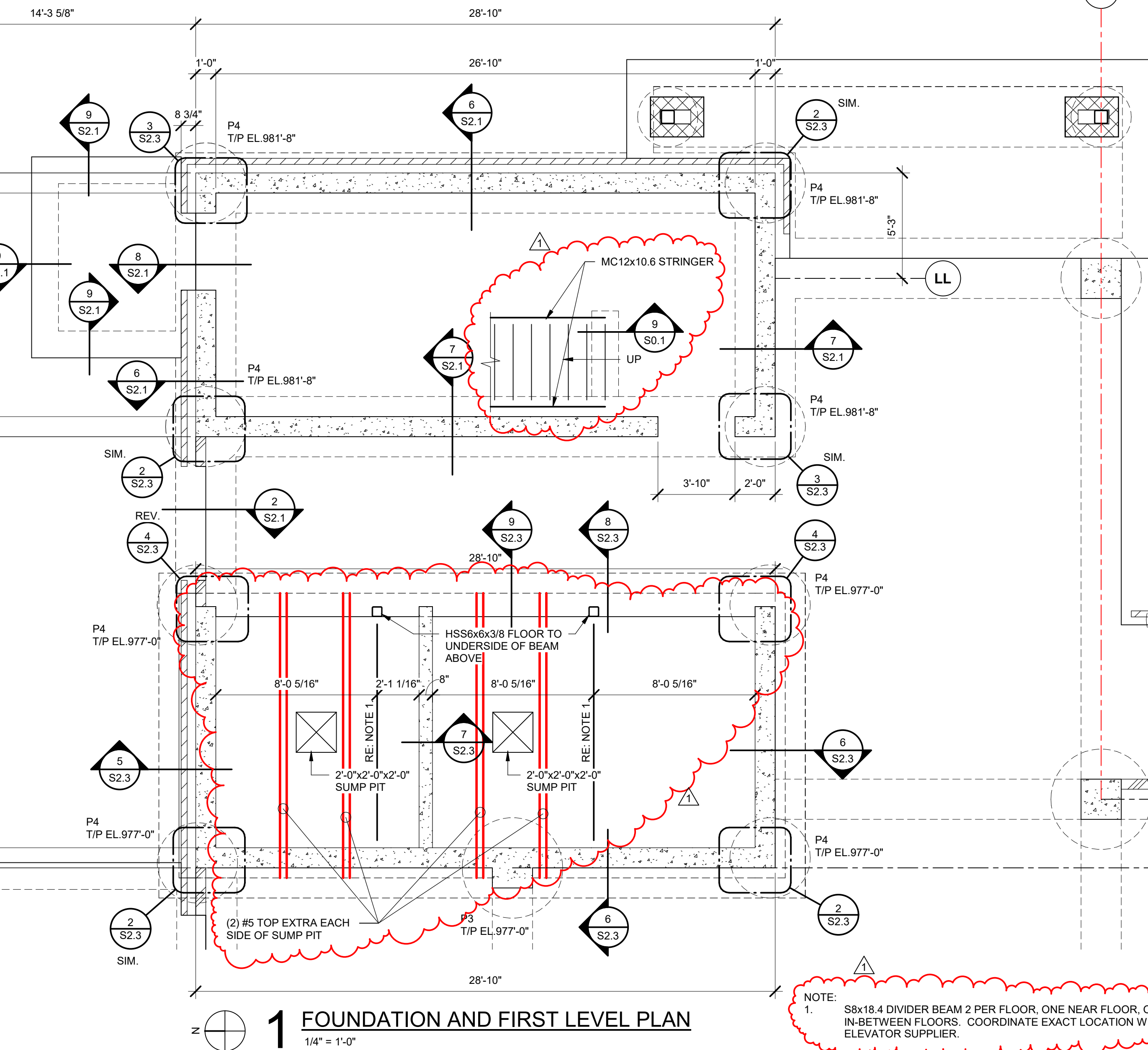
- NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 12/S2.3).
  2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

3 PLAN SECTION AT INTERIOR WALL  
3/4" = 1'-0"



- NOTES:
1. TOP OF WALL: PROVIDE REINF. COUPLERS FOR FUTURE EXPANSION. MATCH REINF. SIZE AND QUANTITY WITH COLUMN VERTICAL. (RE: 12/S2.3).
  2. EXTEND DOWELS INTO PIERS AT FOUNDATION. MATCH SIZE AND QUANTITY WITH VERTICAL REINF. RE: 1/S2.6. FOR REQUIRED LAP LENGTH.

2 PLAN SECTION AT INTERIOR WALL  
3/4" = 1'-0"



1 FOUNDATION AND FIRST LEVEL PLAN  
1/4" = 1'-0"

HATCHED AREA INDICATES SCOPE  
INCLUDED IN FOUNDATION PACKAGE

RELEASED FOR CONSTRUCTION  
AS NOTED & PERMITTED

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CONSTRUCTION DOCUMENTS

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Lee's Summit, MO 64086

Number	Date	Description
1	01-20-23	ADDENDUM #1

Revised

Number	Date	Description
1	01-20-23	ADDENDUM #1

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ENLARGED STAIR/ELEVATOR  
PLANS AND DETAILS







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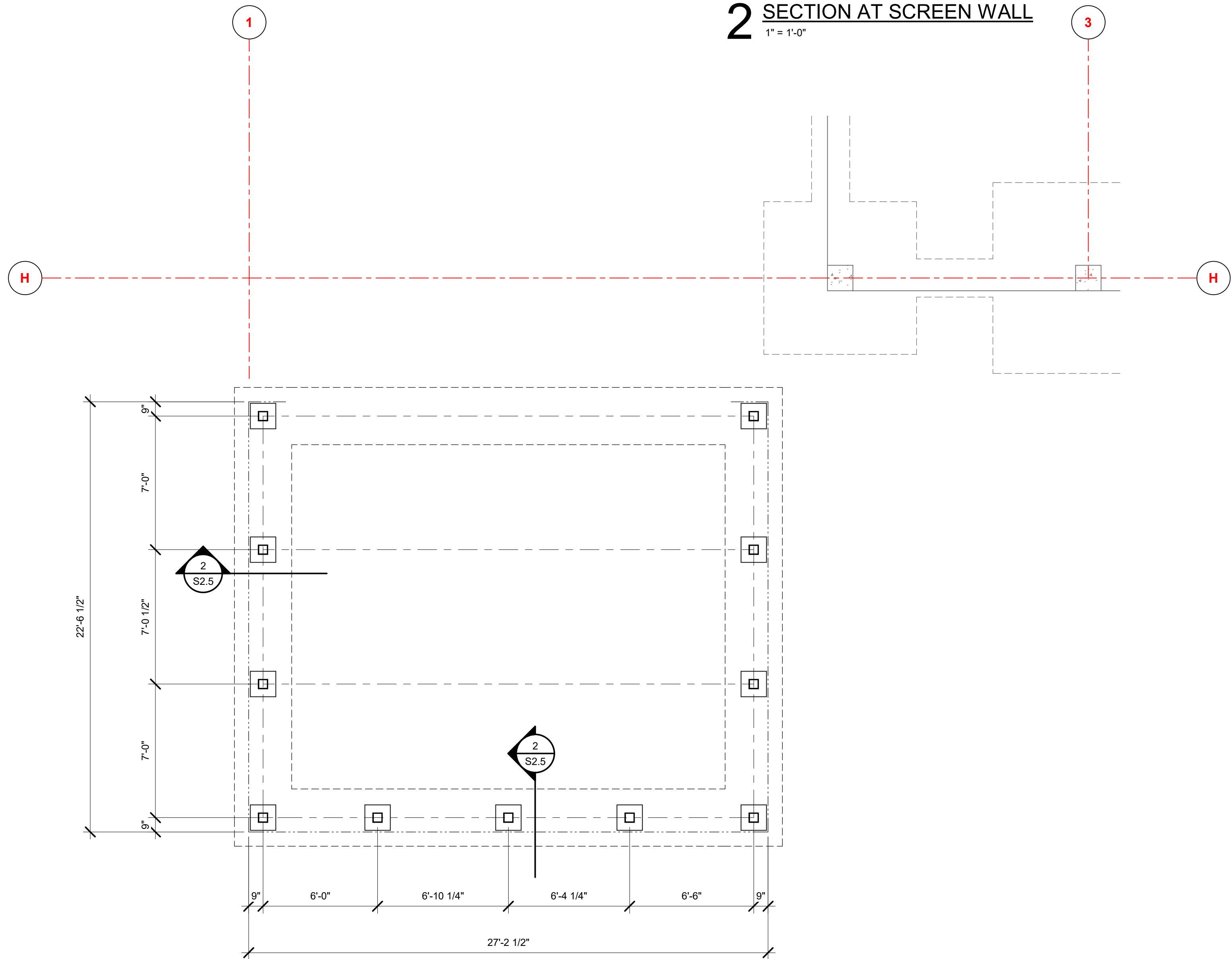
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1 TRASH ENCLOSURE FOUNDATION PLAN  
1/4" = 1'-0"

HATCHED AREA INDICATES SCOPE  
INCLUDED IN FOUNDATION PACKAGE

RELEASED FOR  
CONSTRUCTION  
AT NO. 155-1011-10000

Development Services Department  
Lee's Summit, Missouri  
02/15/2023

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NUMBER  
PE-220082  
Professional Engineer  
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Krishna G. Saha  
01/20/2023  
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CONSTRUCTION  
DOCUMENTS

Date01/20/2023  
Job Number3-21037  
Drawn ByAuthor  
Checked ByChecker

Revision

Number	Date	Description
1	01-20-23	ADDENDUM #1

GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.5

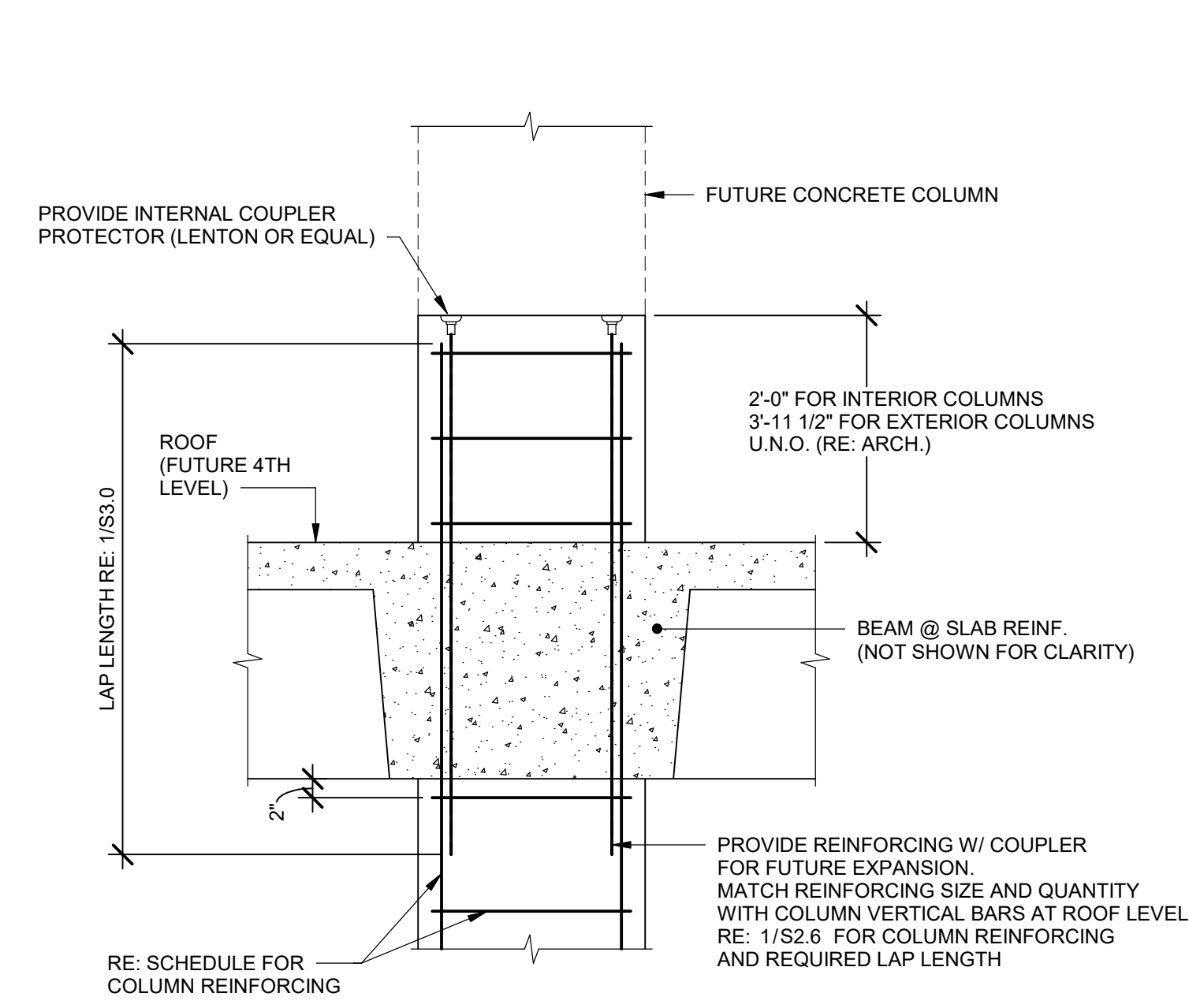
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TRASH ENCLOSURE PLAN AND  
DETAILS

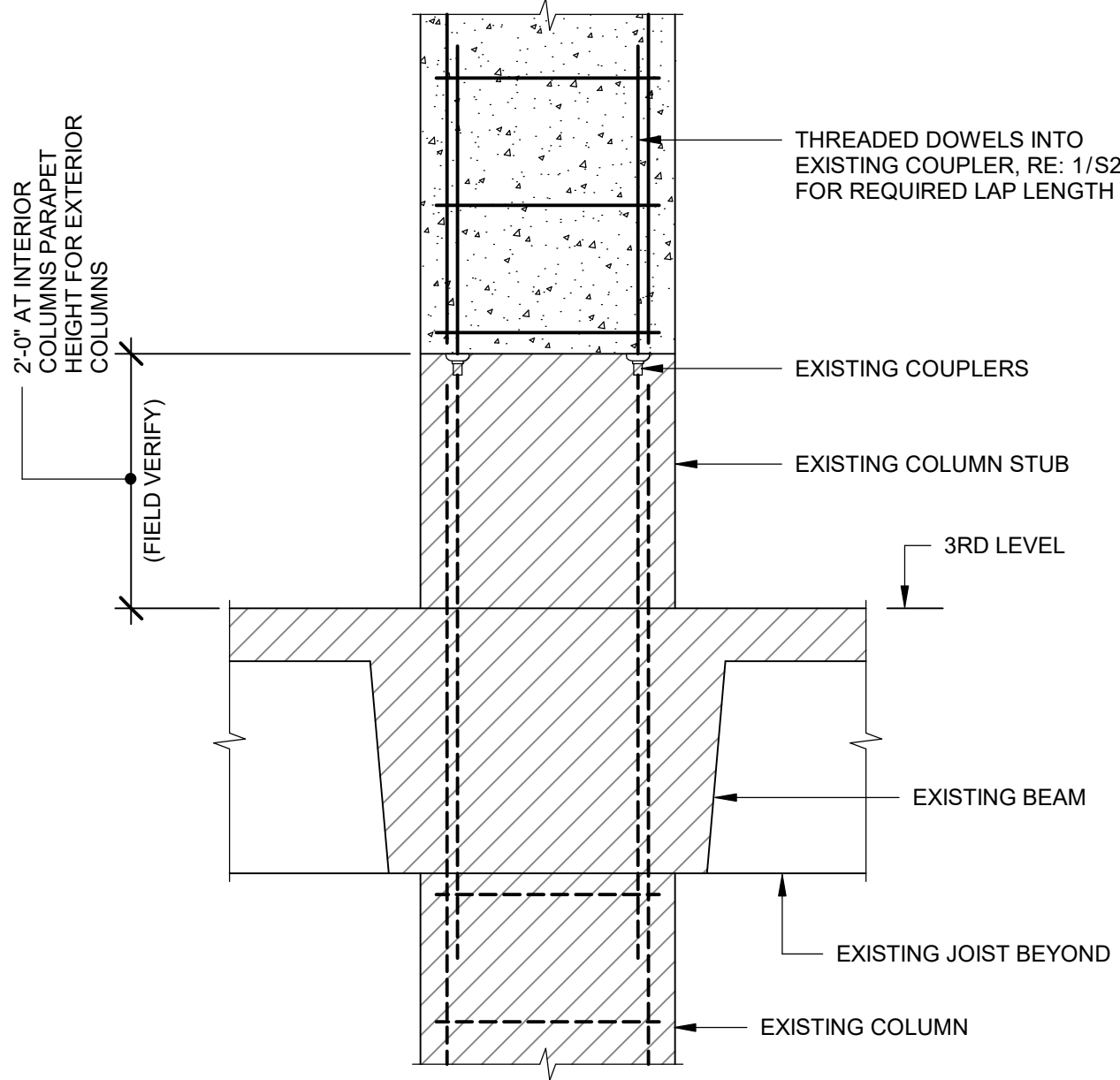


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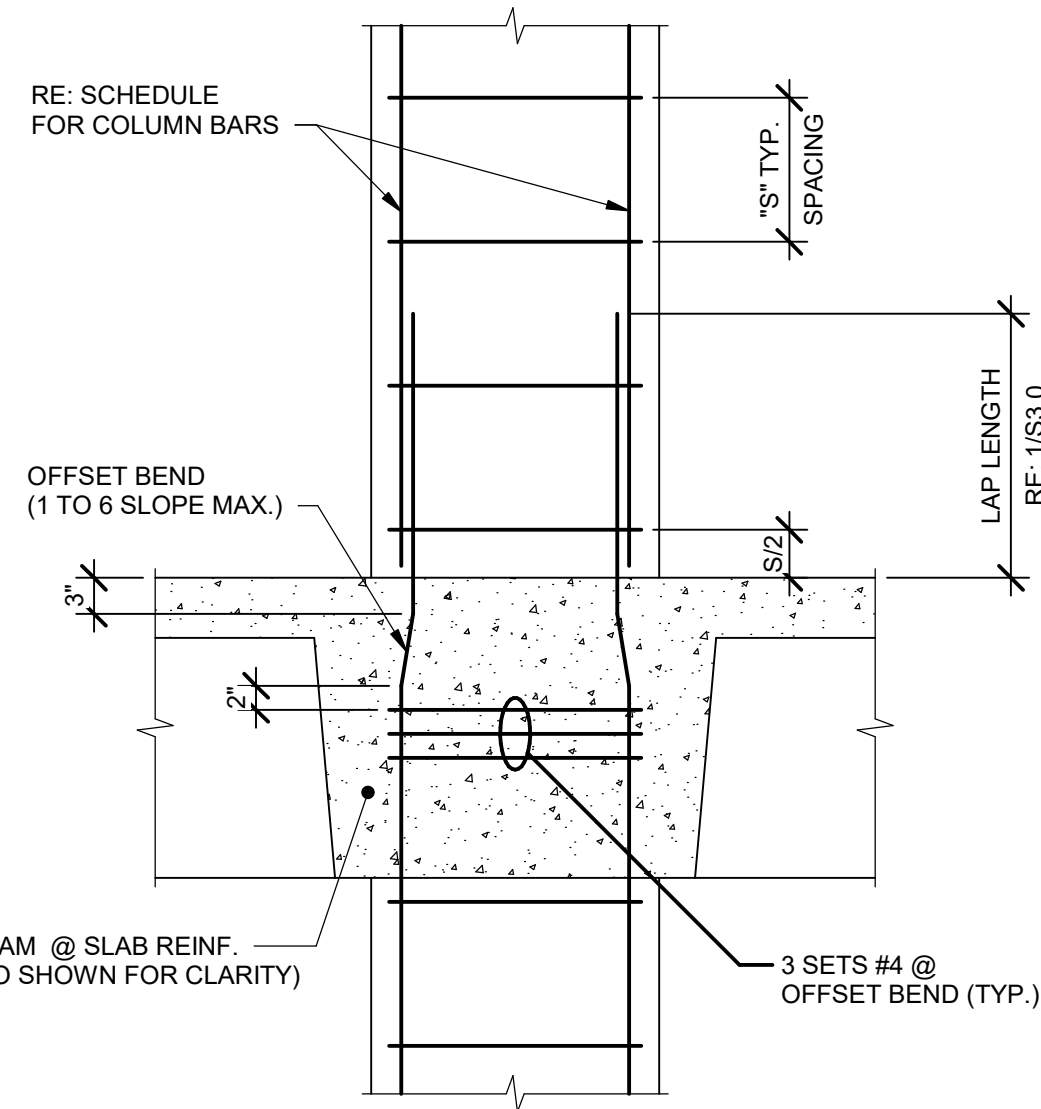
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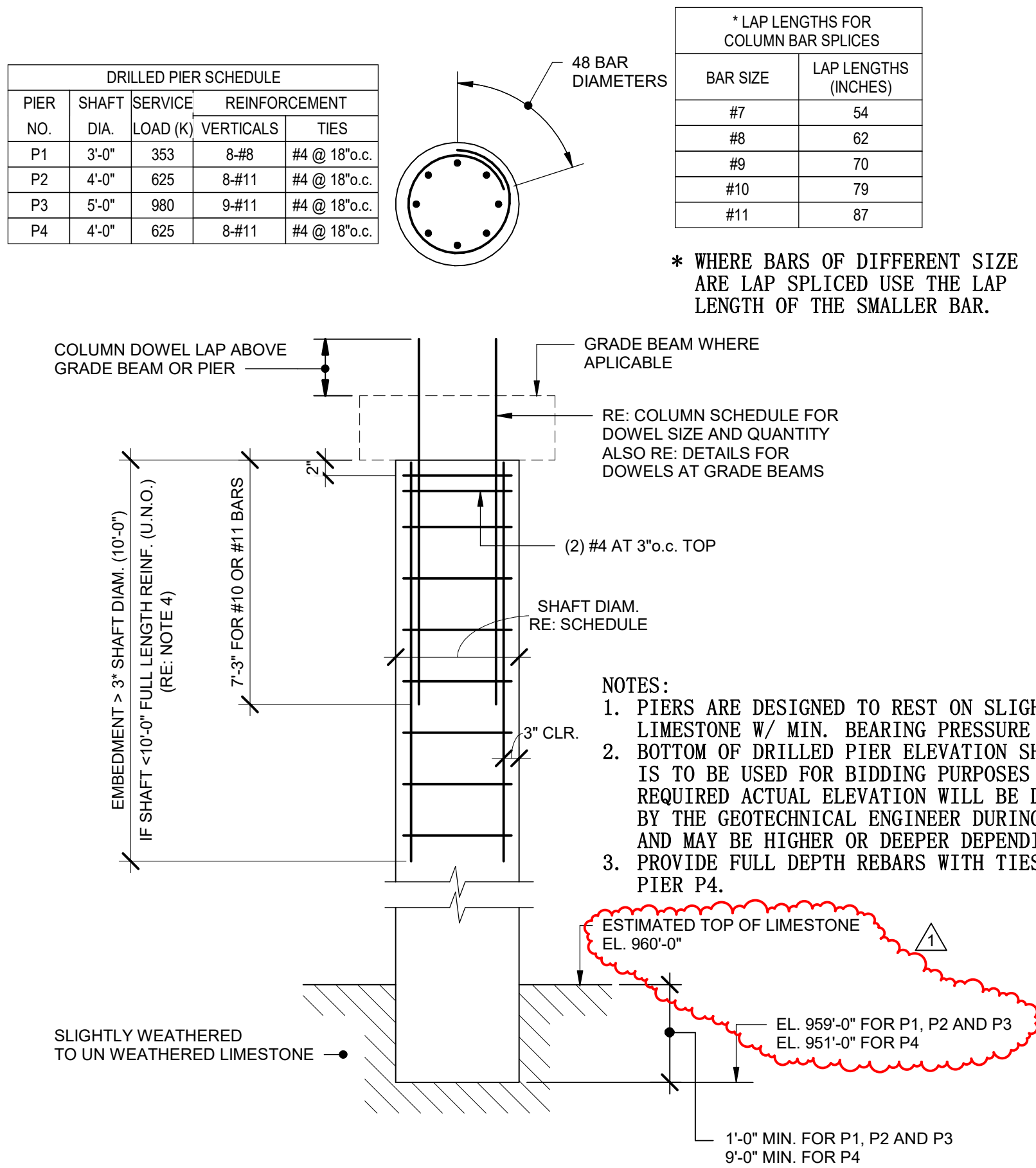
5 TYP. COLUMN DETAIL FOR FUTURE EXPANSION  
3/4" = 1'-0"



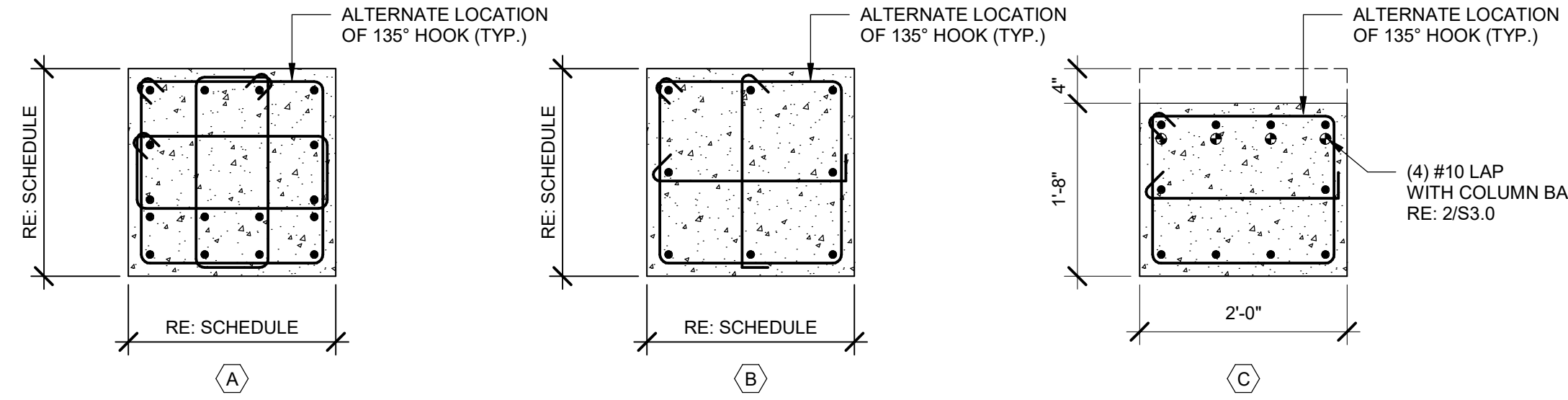
4 TYP. COLUMN DETAIL AT EXISTING ROOF  
3/4" = 1'-0"



3 TYP. COLUMN DETAIL @ FLOOR  
3/4" = 1'-0"



2 TYP. DRILLED PIER REINFORCEMENT  
N.T.S.



* LAP LENGTHS FOR COLUMN BAR SPLICES	
BAR SIZE	LAP LENGTHS (INCHES)
#7	54
#8	62
#9	70
#10	79
#11	87

\* WHERE BARS OF DIFFERENT SIZE ARE LAP SPLICED USE THE LAP LENGTH OF THE SMALLER BAR.

EXISTING BUILDING COLUMN SCHEDULE	
GRID	DD/0.2, DD/1.1, DD/5.2, DD/5.9, CC/0.2, CC/1.1, BB/0.2, BB/1.1, BB/5.2, BB/5.9, A/5.0.2, A/5.1, A/5.2.7
FLOOR	
(FUTURE ROOF)	EL. 1065'-0"
(FUTURE 5TH)	EL. 1049'-0"
(FUTURE 4TH)	EL. 1033'-0"
THIRD LEVEL	EL. 1017'-0"
SECOND LEVEL	EL. 1001'-0"
FIRST LEVEL	EL. 985'-0"
PLAN DETAIL	A

NEW BUILDING COLUMN SCHEDULE	
GRID	EE/0.2, EE/1.1, EE/2.5, EE/3.7, EE/4.7, EE/5.8
FLOOR	
(FUTURE ROOF)	EL. 1065'-0"
(FUTURE 4TH)	EL. 1033'-0"
THIRD LEVEL	EL. 1017'-0"
SECOND LEVEL	EL. 1001'-0"
FIRST LEVEL	EL. 985'-0"
PLAN DETAIL	A

INDICATES EXISTING  
HATCHED AREA INDICATES SCOPE INCLUDED IN FOUNDATION PACKAGE

1 COLUMN SCHEDULE AND PLAN DETAILS  
N.T.S.

RELEASED FOR CONSTRUCTION

Development Services Department

Lee's Summit, Missouri

02/15/2023

Krishna G. Saha

Professional Engineer

License - Missouri PE #023862

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3-21037

Drawn By

GBB

Checked By

KGS

Revision

Number

Date

Description

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01-20-23

ADDENDUM #1

GRADING, FOOTING, AND FOUNDATION PACKAGE

S2.6

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COLUMN SCHEDULE AND DETAILS