

To the drawings for:

**Main Electrical Distribution - Switchgear**

Veteran's Administration Medical Center, San Antonio, TX

**Audie L. Murphy Memorial Veterans Hospital**

7400 Merton Minter Blvd.

San Antonio, TX 78229

210-617-5300

**WestEast Design Group, LLC**

**Architect**

200 E. Grayson Street, Suite 207

San Antonio, Texas 78215

210-530-0755

*This written amendment is hereby made a part of the contract documents to the same extent as though it were originally included therein. This amendment shall take precedence over the original drawings and specifications where its provisions apply.*

1. **Revise** note for clarification to sheet AD1.0.
2. **Added** detail reference key and detail to sheet AS1.0
3. **Revise** notes for clarification to sheet AS2.0
4. **Added** Spec Section 31 32 23 Pressure Grouting Soil Stabilization
5. **Added** Spec Section 22 13 00 Facility Sanitary and Vent Piping
6. **Revise** Specification Table of Contents to include Spec Section 31 32 23 Pressure Grouting Soil Stabilization

**TECHNICAL DRAWINGS**

**SHEET AS1.0 – Floor Plans:**

1. **Replace** Sheet AD1.0 in its entirety with the attached Revised Sheet AD1.0.

**SHEET AS1.0 – Floor Plans:**

1. **Replace** Sheet AS1.0 in its entirety with the attached Revised Sheet AS1.0.

**SHEET AS2.0 – Section Details:**

1. **Replace** Sheet AS2.0 in its entirety with the attached Revised Sheet AS2.0.

Attachments: Addendum No.1 Sheet AD1.0, AS1.0, AS2.0, and Specification Table of Contents, Spec Section 22 13 00 Facility Sanitary and Vent Piping, and 31 32 23 Pressure Grouting Soil Stabilization



5/15/2015

END OF ADDENDUM NO. 1

**DEPARTMENT OF VETERANS AFFAIRS  
MASTER SPECIFICATIONS**

**PROJECT 671-14-114  
MAIN ELECTRICAL DISTRIBUTION - SWITCHGEAR**

**TABLE OF CONTENTS  
Section 00 01 10**

<b>VOLUME 1</b>		
	<b>DIVISION 0 - SPECIAL SECTIONS</b>	<b>DATE</b>
00 01 10	Table of Contents	
00 01 15	List of Drawings	09-11
	<b>DIVISION 1 - GENERAL REQUIREMENTS</b>	
01 00 00	General Requirements	10-13
01 32 16.15	Project Schedule (Small Projects- Design/Bid/Build)	04-14
01 33 23	Shop Drawings, Product Data, and Samples	03-12
01 35 26	Safety Requirements	10-14
01 42 19	Reference Standards	09-11
01 45 29	Testing Laboratory Services	07-13
01 74 19	Construction Waste management	09-13
01 81 11	Sustainable Design Requirements	02-13
	<b>DIVISION 2 - EXISTING CONDITIONS</b>	
02 41 00	Demolition	04-13
02 82 11	Traditional Asbestos Abatement	07-11
	<b>DIVISION 3 - CONCRETE - NOT USED</b>	
	<b>DIVISION 4 - MASONRY -</b>	
04 05 13	Masonry Mortaring	09-11
04 05 16	Masonry Grouting	09-11
04 20 00	Unit masonry	
	<b>DIVISION 5 - METALS - NOT USED</b>	
	<b>DIVISION 6 - WOOD AND PLASTIC - NOT USED</b>	
	<b>DIVISION 7 - THERMAL AND MOISTURE PROTECTION</b>	
07 60 00	Flashing and Sheet Metal	07-14
07 92 00	Joint Sealants	12-11
	<b>DIVISION 8 - DOORS AND WINDOWS - NOT USED</b>	
	<b>DIVISION 9 - FINISHES - NOT USED</b>	
09 22 16	Non-Structural Metal Framing	10-14
09 24 00	Portland Cement Plastering	10-11
09 91 00	Painting	07-13
22 13 00	Facility Sanitary and Vent Piping	07-14

	DIVISION 31 - EARTHWORK	10-12
31 23 19	Dewatering	
31 32 23	Pressure Grouting Soil Stabilization	10-06

**SECTION 22 13 00  
FACILITY SANITARY AND VENT PIPING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section pertains to sanitary sewer and vent systems, including piping, equipment and all necessary accessories as designated in this section.
- B. A complete listing of all acronyms and abbreviations are included in Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING.

**1.2 RELATED WORK**

- A. Section 01 00 00, GENERAL REQUIREMENTS.
- B. Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- C. Section 01 81 11, SUSTAINABLE DESIGN REQUIREMENTS.
- F. Section 07 92 00, JOINT SEALANTS: Sealant products.
- G. Section 09 91 00, PAINTING: Preparation and finish painting and identification of piping systems.

**1.3 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society of Mechanical Engineers (ASME):
  - A13.1-2007.....Scheme for the Identification of Piping Systems
  - A112.36.2M-1991(R 2012).Cleanouts
  - A112.6.3-2001 (R2007)...Standard for Floor and Trench Drains
  - B1.20.1-2013.....Pipe Threads, General Purpose (Inch)
  - B16.1-2010.....Gray Iron Pipe Flanges and Flanged Fittings
  - B16.4-2011.....Standard for Grey Iron Threaded Fittings
    - Classes 125 and 250
  - B16.15-2013.....Cast Copper Alloy Threaded Fittings, Classes
    - 125 and 250
  - B16.18-2012.....Cast Copper Alloy Solder Joint Pressure Fittings
  - B16.21-2011.....Nonmetallic Flat Gaskets for Pipe Flanges
  - B16.22-2013.....Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

- B16.23-2011.....Cast Copper Alloy Solder Joint Drainage  
Fittings: DWV
- B16.24-2001 (R2006).....Cast Copper Alloy Pipe Flanges and Flanged  
Fittings
- B16.29-2012.....Wrought Copper and Wrought Copper Alloy Solder-  
Joint Drainage Fittings: DWV
- B16.39-2009.....Malleable Iron Threaded Pipe Unions Classes  
150, 250, and 300
- B18.2.1-2012.....Square, Hex, Heavy Hex, and Askew Head Bolts  
and Hex, Heavy Hex, Hex Flange, Lobed Head, and  
Lag Screws (Inch Series)
- C. American Society of Sanitary Engineers (ASSE):
- 1001-2008.....Performance Requirements for Atmospheric Type  
Vacuum Breakers
- 1018-2001.....Performance Requirements for Trap Seal Primer  
Valves - Potable Water Supplied
- 1044-2001.....Performance Requirements for Trap Seal Primer  
Devices - Drainage Types and Electronic Design  
Types
- 1079-2012.....Performance Requirements for Dielectric Pipe  
Unions
- D. American Society for Testing and Materials (ASTM):
- A53/A53M-2012.....Standard Specification for Pipe, Steel, Black  
And Hot-Dipped, Zinc-coated, Welded and  
Seamless
- A74-2013a.....Standard Specification for Cast Iron Soil Pipe  
and Fittings
- A888-2013a.....Standard Specification for Hubless Cast Iron  
Soil Pipe and Fittings for Sanitary and Storm  
Drain, Waste, and Vent Piping Applications
- B32-2008.....Standard Specification for Solder Metal
- B43-2009.....Standard Specification for Seamless Red Brass  
Pipe, Standard Sizes
- B75-2011.....Standard Specification for Seamless Copper Tube
- B88-2009.....Standard Specification for Seamless Copper  
Water Tube
- B306-2013.....Standard Specification for Copper Drainage Tube  
(DWV)

- B584-2013.....Standard Specification for Copper Alloy Sand Castings for General Applications
- B687-1999 (R 2011).....Standard Specification for Brass, Copper, and Chromium-Plated Pipe Nipples
- B813-2010.....Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube
- B828-2002 (R 2010).....Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings
- C564-2012.....Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
- D1785-2012.....Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
- D2321-2011.....Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
- D2564-2012.....Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems
- D2665-2012.....Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
- D2855-1996 (R 2010).....Standard Practice for Making Solvent-Cemented Joints with Poly(Vinyl Chloride) (PVC) Pipe and Fittings
- D5926-2011.....Standard Specification for Poly(Vinyl Chloride) (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems
- F402-2005 (R 2012).....Standard Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings
- F477-2010.....Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
- F1545-1997 (R 2009).....Standard Specification for Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges
- E. Cast Iron Soil Pipe Institute (CISPI):
- 2006.....Cast Iron Soil Pipe and Fittings Handbook

- 301-2012.....Standard Specification for Hubless Cast Iron  
Soil Pipe and Fittings for Sanitary and Storm  
Drain, Waste, and Vent Piping Applications
- 310-2012.....Specification for Coupling for Use in  
Connection with Hubless Cast Iron Soil Pipe and  
Fittings for Sanitary and Storm Drain, Waste,  
and Vent Piping Applications
- F. Copper Development Association, Inc. (CDA):  
A4015.....Copper Tube Handbook
- G. International Code Council (ICC):  
IPC-2012.....International Plumbing Code
- H. Manufacturers Standardization Society (MSS):  
SP-123-2013.....Non-Ferrous Threaded and Solder-Joint Unions  
for Use With Copper Water Tube
- I. National Fire Protection Association (NFPA):  
70-2011.....National Electrical Code (NEC)
- J. Plumbing and Drainage Institute (PDI):  
WH-201 (R 2010).....Water Hammer Arrestors Standard
- K. Underwriters' Laboratories, Inc. (UL):  
508-99 (R2013).....Standard For Industrial Control Equipment

#### **1.4 SUBMITTALS**

- A. Submittals, including number of required copies, shall be submitted in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, and SAMPLES.
- B. Information and material submitted under this section shall be marked "SUBMITTED UNDER SECTION 22 13 00, FACILITY SANITARY AND VENT PIPING", with applicable paragraph identification.
- C. Manufacturer's Literature and Data including: Full item description and optional features and accessories. Include dimensions, weights, materials, applications, standard compliance, model numbers, size, and capacity.
1. Piping.
  2. Floor Drains.
  3. Grease Removal Unit.
  4. Cleanouts.
  5. Trap Seal Protection.
  6. Penetration Sleeves.
  7. Pipe Fittings.

8. Traps.

9. Exposed Piping and Fittings.

D. Detailed shop drawing of clamping device and extensions when required in connection with the waterproofing membrane or the floor drain.

#### **1.5 QUALITY ASSURANCE**

A. Bio-Based Materials: For products designated by the USDA's Bio-Preferred Program, provide products that meet or exceed USDA recommendations for bio-based content, so long as products meet all performance requirements in this specifications section. For more information regarding the product categories covered by the Bio-Preferred Program, visit <http://www.biopreferred.gov>.

#### **1.6 AS-BUILT DOCUMENTATION**

- A. The installing contractor shall maintain as-built drawings of each completed phase for verification; and, shall provide the complete set at the time of final systems certification testing. As-built drawings are to be provided, and a copy of them on Auto-Cad version provided on compact disk or DVD. Should the installing contractor engage the testing company to provide as-built or any portion thereof, it shall not be deemed a conflict of interest or breach of the 'third party testing company' requirement.
- B. Certification documentation shall be provided prior to submitting the request for final inspection. The documentation shall include all test results, the names of individuals performing work for the testing agency on this project, detailed procedures followed for all tests, and a certification that all results of tests were within limits specified.

### **PART 2 - PRODUCTS**

#### **2.1 SANITARY WASTE, DRAIN, AND VENT PIPING**

- A. Cast iron waste, drain, and vent pipe and fittings.
1. Cast iron waste, drain, and vent pipe and fittings shall be used for the following applications:
    - a. Pipe buried in or in contact with earth.
    - b. Sanitary pipe extensions to a distance of approximately 1500 mm (5 feet) outside of the building.
    - c. Interior waste and vent piping above grade.
  2. Cast iron Pipe shall be bell and spigot or hubless (plain end or no-hub or hubless).



3. The material for all pipe and fittings shall be cast iron soil pipe and fittings and shall conform to the requirements of CISPI 301, ASTM A888, or ASTM A74.
4. Cast iron pipe and fittings shall be made from a minimum of 95 percent post-consumer recycled material.
5. Joints for hubless pipe and fittings shall conform to the manufacturer's installation instructions. Couplings for hubless joints shall conform to CISPI 310. Joints for hub and spigot pipe shall be installed with compression gaskets conforming to the requirements of ASTM C564.

### **PART 3 - EXECUTION**

#### **3.1 PIPE INSTALLATION**

- A. The pipe installation shall comply with the requirements of the International Plumbing Code (IPC) and these specifications.
- B. Branch piping shall be installed for waste from the respective piping systems and connect to all fixtures, valves, cocks, outlets, casework, cabinets and equipment, including those furnished by the Government or specified in other sections.
- C. Pipe shall be round and straight. Cutting shall be done with proper tools. Pipe shall be reamed to full size after cutting.
- D. All pipe runs shall be laid out to avoid interference with other work.
- E. The piping shall be installed above accessible ceilings where possible.
- F. The piping shall be installed to permit valve servicing or operation.
- G. The piping shall be installed free of sags and bends.
- H. Seismic restraint shall be installed where required by code.
- I. Changes in direction for soil and waste drainage and vent piping shall be made using appropriate branches, bends and long sweep bends. Sanitary tees and short sweep quarter bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Long turn double wye branch and eighth bend fittings shall be used if two fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Proper size of standard increaser and reducers shall be used if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited.
- J. Buried soil and waste drainage and vent piping shall be laid beginning at the low point of each system. Piping shall be installed true to

grades and alignment indicated with unbroken continuity of invert. Hub ends shall be placed upstream. Required gaskets shall be installed according to manufacturer's written instruction for use of lubricants, cements, and other installation requirements.

- K. Cast iron piping shall be installed according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings"
- N. If an installation is unsatisfactory to the COR, the Contractor shall correct the installation at no cost to the Government.

### **3.2 JOINT CONSTRUCTION**

- A. Hub and spigot, cast iron piping with gasket joints shall be joined in accordance with CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for compression joints.
- B. Hub and spigot, cast iron piping with calked joints shall be joined in accordance with CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for lead and oakum calked joints.
- C. Hubless or No-hub, cast iron piping shall be joined in accordance with CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for hubless piping coupling joints.

### **3.4 PIPE HANGERS, SUPPORTS AND ACCESSORIES**

- A. All piping shall be supported according to the International Plumbing Code (IPC), Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING, and these specifications. Where conflicts arise between these the code and Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING the most restrictive or the requirement that specifies supports with highest loading or shortest spacing shall apply.
- B. Hangers, supports, rods, inserts and accessories used for pipe supports shall be painted according to Section 09 91 00, PAINTING. Electroplated copper hanger rods, hangers and accessories may be used with copper tubing.
- C. Horizontal piping and tubing shall be supported within 300 mm (12 inches) of each fitting or coupling.
- D. Horizontal cast iron piping shall be supported with the following maximum horizontal spacing and minimum hanger rod diameters:
  - 1. 40 mm or DN40 to 50 mm or DN50 (NPS 1-1/2 inch to NPS 2 inch): 1500 mm (60 inches) with 10 mm (3/8 inch) rod.

2. 75 mm or DN75 (NPS 3 inch): 1500 mm (60 inches) with 15 mm (1/2 inch) rod.
  3. 100 mm or DN100 to 125 mm or DN125 (NPS 4 inch to NPS 5 inch): 1500 mm (60 inches) with 18 mm (5/8 inch) rod.
  4. 150 mm or DN150 to 200 mm or DN200 (NPS 6 inch to NPS 8 inch): 1500 mm (60 inches) with 20 mm (3/4 inch) rod.
  5. 250 mm or DN250 to 300 mm or DN300 (NPS 10 inch to NPS 12 inch): 1500 mm (60 inch) with 23 mm (7/8 inch) rod.
- F. Vertical piping and tubing shall be supported at the base, at each floor, and at intervals no greater than 4.6 m (15 feet).
- G. In addition to the requirements in Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING, Floor, Wall and Ceiling Plates, Supports, Hangers shall have the following characteristics:
1. Solid or split unplated cast iron.
  2. All plates shall be provided with set screws.
  3. Height adjustable clevis type pipe hangers.
  4. Adjustable floor rests and base flanges shall be steel.
  5. Hanger rods shall be low carbon steel, fully threaded or threaded at each end with two removable nuts at each end for positioning rod and hanger and locking each in place.
  6. Riser clamps shall be malleable iron or steel.
  7. Rollers shall be cast iron.
  8. See Section 22 05 11, COMMON WORK RESULTS FOR PLUMBING, for requirements on insulated pipe protective shields at hanger supports.
- H. Miscellaneous materials shall be provided as specified, required, directed or as noted on the drawings for proper installation of hangers, supports and accessories. If the vertical distance exceeds 6.1 m (20 feet) for cast iron pipe additional support shall be provided in the center of that span. All necessary auxiliary steel shall be provided to provide that support.
- I. Cast escutcheon with set screw shall be provided at each wall, floor and ceiling penetration in exposed finished locations and within cabinets and millwork.

### 3.5 TESTS

- A. Sanitary waste and drain systems shall be tested either in its entirety or in sections.

- - - E N D - - -

**SECTION 31 32 23**  
**PRESSURE GROUTING SOIL STABILIZATION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies furnishing and installing a single component liquid polyurethane chemical grout that is injected under pressure into voids in the ground. Upon reaction, expansion, and curing: the polyurethane fills the voids between the soil particles to stabilize soils and, if sufficiently installed, can form a water-resistant barrier. All works shall be done as directed by the Resident Engineer and as shown on the drawings.

**1.2 QUALITY ASSURANCE**

- A. Manufacturing qualifications: The manufacturer of the specified product shall have an established program of training and technically supporting an organized Approved Applicator program.
- B. Contractor qualifications: Contractor shall be an Approved Applicator of the manufacturer of the specified product, who has completed a program of instruction in the use of the specified product. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative and shall be able to demonstrate past performance on at least five jobs of similar scope and size.
- C. Install materials in accordance with all safety and weather conditions required by manufacturer or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets for complete handling recommendations.
- D. Make all arrangements and pay all costs to have manufacturer's authorized technical representative on the job at the beginning of all major phases of the work.

**1.3 RELATED WORK:**

- A. Materials testing and inspection during construction: Section 01 45 29, TESTING LABORATORY SERVICES.
- B. Protection of existing utilities, fire protection services, existing equipment, roads, and pavements: Section 01 00 00, GENERAL REQUIREMENTS.

#### 1.4 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American Society for Testing and Materials (ASTM):
  - ASTM D4878-08.....Standard Test for Polyurethane Raw Materials:  
Determination of Viscosity of Polyols.
  - ASTM D1310-14 .....Standard Test for Flash Point and Fire Point of  
Liquids by Tag Open-Cup Apparatus.
  - ASTM D3505-13 .....Standard Test Method for Density or Relative  
Density of Pure Liquid Chemicals.
  - ASTM D4219-08 .....Standard Test Method for Unconfined Compressive  
Strength Index of Chemical-Grouted Soils.
  - ASTM D1586 .....Standard Test Method for Standard Penetration  
Test (SPT) and Split-Barrel Sampling of Soils

#### 1.5 SUBMITTALS:

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Submit two copies of manufacturer's literature, to include: Product Data Sheets, and appropriate Material Safety Data Sheets (MSDS)
- C. The Contractor shall submit a complete list of equipment and procedures for the proposed use of the grout.
- D. The Contractor shall submit to the Engineer for approval, a detailed procedure for the installation of the water - reactive grout.

#### PART 2 - PRODUCT

##### 2.1 MATERIALS

- A. Basis of Design: DeNeef® Soil PURe by Grace Construction Products (800) 732-0166. The chemical grout will be a hydrophobic polymer phalate free material, jobsite conditions may dictate product selection, and material is installed by use of the injection probe method.
- C. The accelerator will be based on a tertiary amine and have a viscosity of 15 cps (75°F). The accelerator will be able to shorten the reaction/gel time of the chemical grout depending upon the amount of accelerator add and temperature. The accelerator material will be as specified by the manufacturer of the chemical grout. Addition of the accelerator to the chemical grout will not cause any reaction to occur.

##### 2.2 Performance Criteria

- A. Properties of the cured polyurethane grout:

1. Compressive Strength psi, 905 min.
2. Viscosity at 77deg F 40 CPS
3. Relative Density at 77deg. F 1.10
4. Service Range: -40deg to 16F (-400 to 770C)

Note: Tests were performed with material and curing conditions at 71-75F and 45-55% relative humidity.

### **PART 3 - EXECUTION**

#### **3.1 PROCEDURE**

- A. The Contractor shall submit for approval by the Engineer a detailed grouting plan showing the spacing, orientation, and the depth of the grout tubes, as well as the type of polyurethane to be used, range of gel times, equipment, mixing procedures, recommended injection pressure, techniques for monitoring grout travel, and any other pertinent information. The grouting plan shall be in accordance with the provisions set for the in this section.

#### **3.2 INSPECTION AND CONTROL**

- A. The work shall be under the direct inspection of a representative of the testing lab who will measure the specific gravity of the mixture, determine suitable operation of the equipment used, and determine the point of injection refusal.
- B. Acceptance of the soil stabilization shall be on the basis of continuous on site inspection and testing by a representative of the testing lab. At the testing labs discretion, on site testing may include before and after testing of the sub-grade soils to evaluate the stabilization process. After tests will typically be performed at seven days after injection to assure interaction with the polyurethane chemical grout and soil mixture. Typical tests may include standard penetration tests in accordance with ASTM D1586 or similar test as considered applicable by the testing laboratory. The Contractor may be required to inject portions of the site with polyurethane chemical grout more than once to meet the approval of the testing lab.

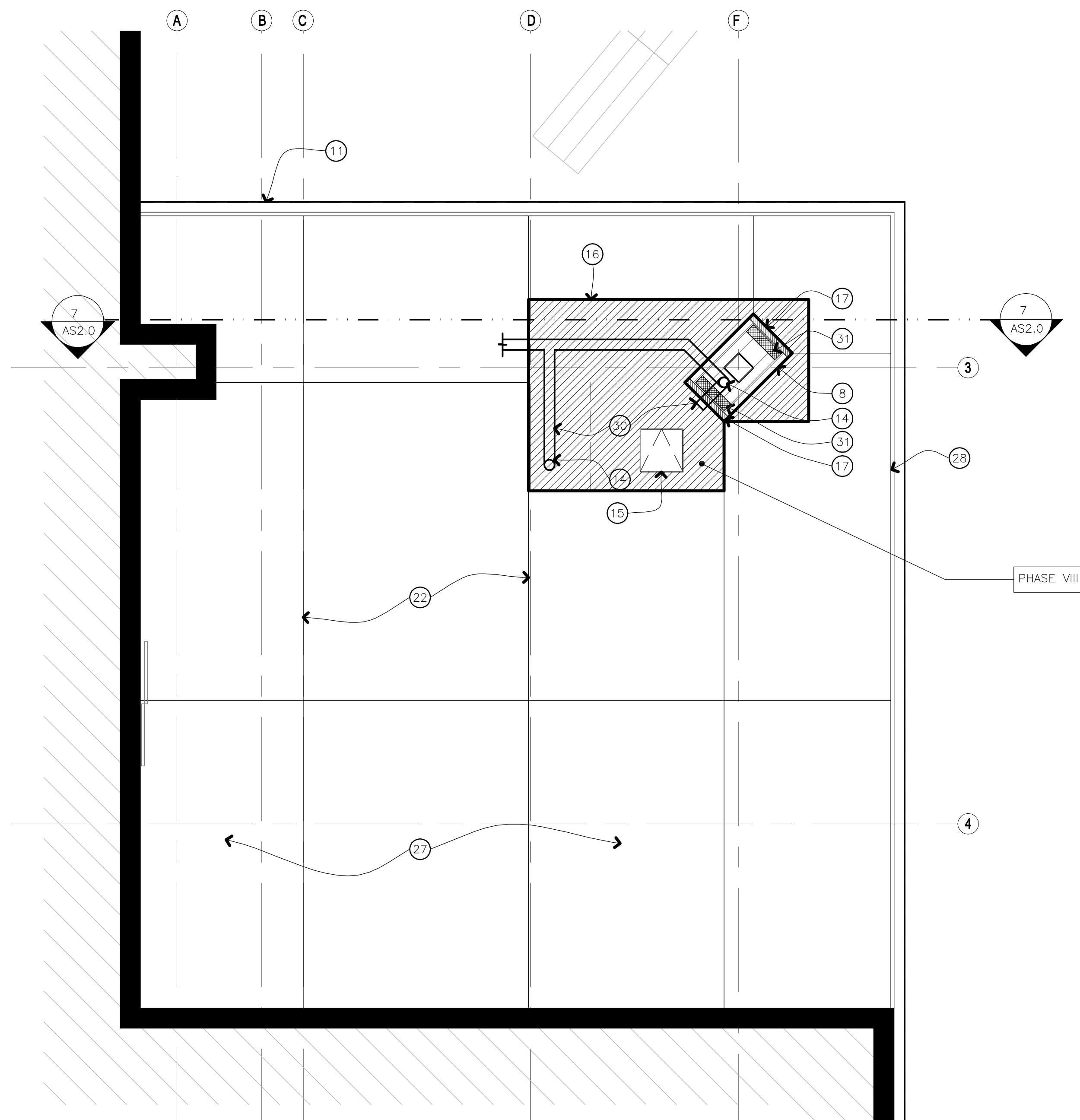
- - - E N D - - -



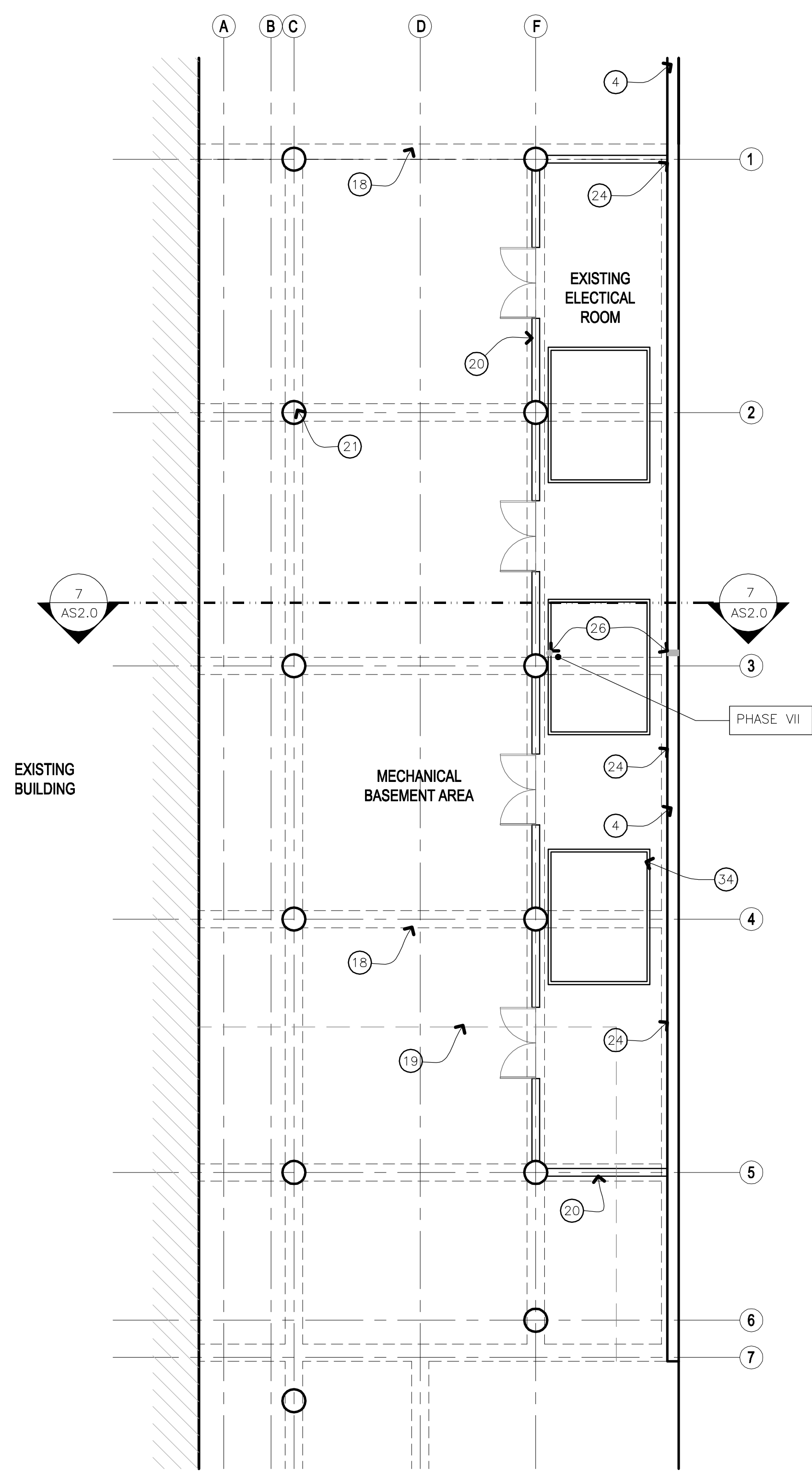




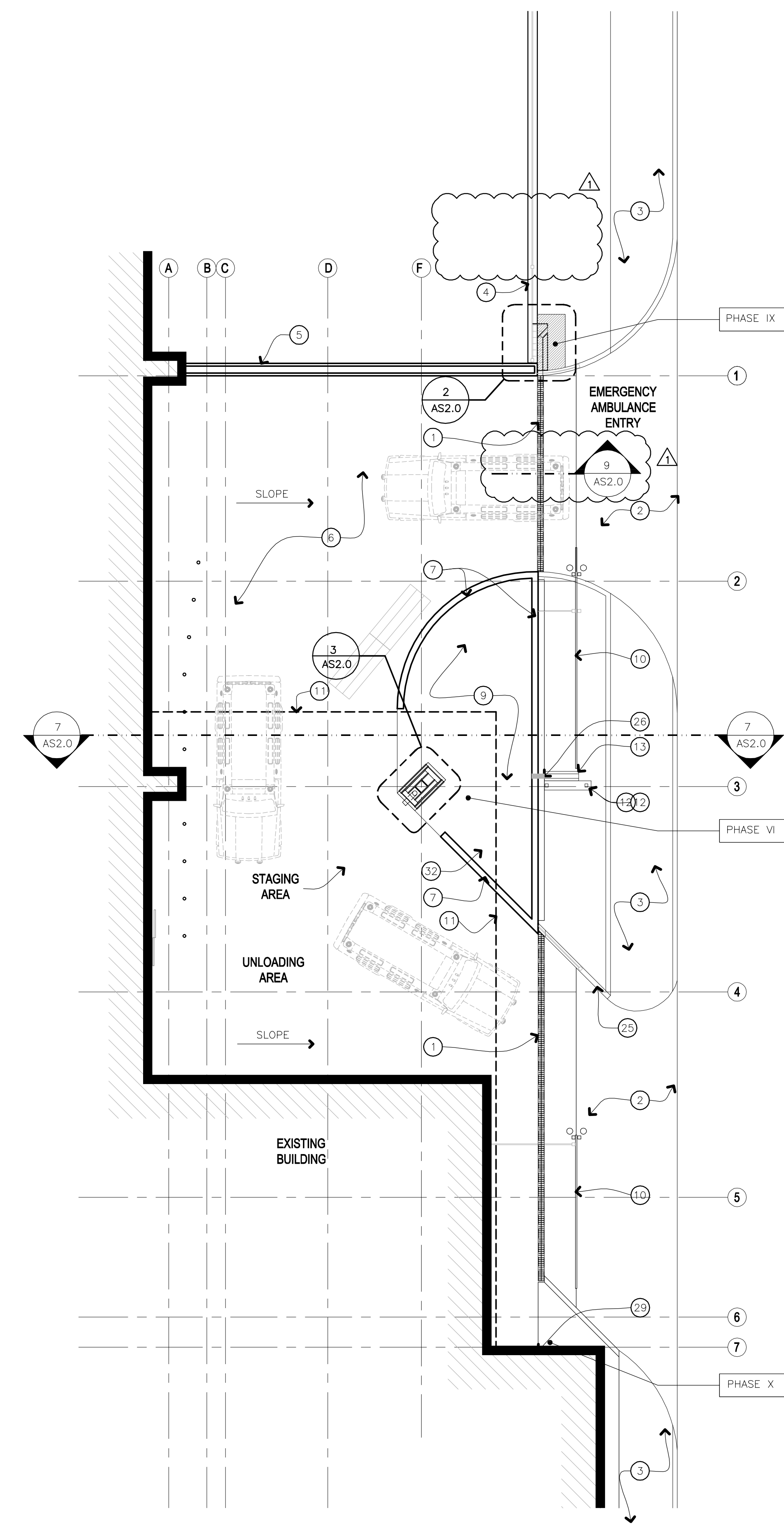
three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one eighth inch = one foot



3 REFLECTED CEILING PLAN -NEW WORK  
SCALE: 1/4" = 1'-0"

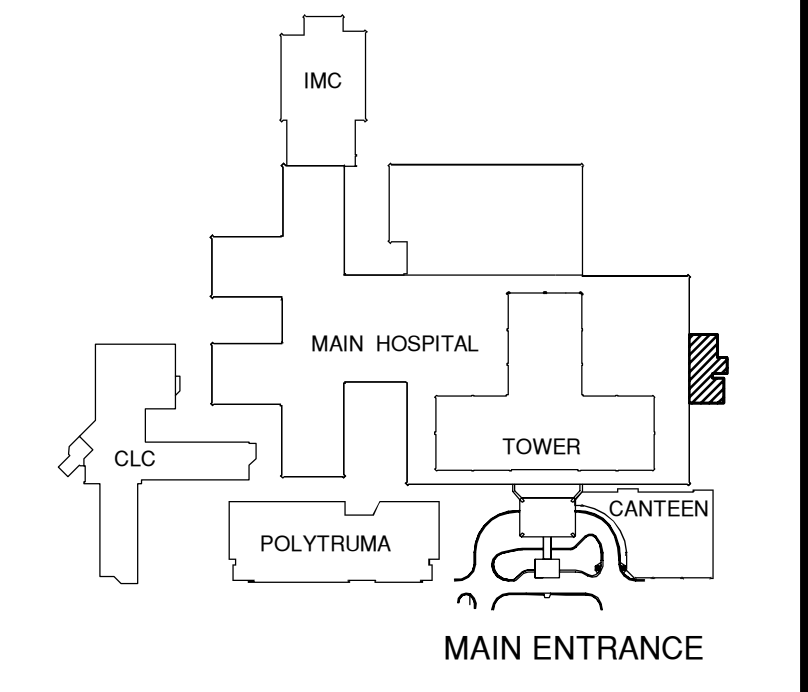



2 BASEMENT PLAN -NEW WORK  
SCALE: 1/8" = 1'-0"



1 FLOOR PLAN -NEW WORK  
SCALE: 1/8" = 1'-0"

- ### KEY NOTES
- 1 EXISTING DRIVEWAY TRENCH
  - 2 EXISTING CONCRETE DRIVEWAY
  - 3 EXISTING SIDEWALK
  - 4 EXISTING RETAINING WALL
  - 5 EXISTING BRICK WINDSCREEN
  - 6 EXISTING ASPHALT DRIVEWAY
  - 7 EXISTING LOW BRICK WALL
  - 8 EXISTING BRICK COLUMN
  - 9 EXISTING ASPHALT AREA
  - 10 EXISTING METAL GATE
  - 11 ROOF LINE
  - 12 EXISTING SIGNAGE
  - 13 EXISTING SPLASH BLOCK
  - 14 RE-ROUTE THE 6" DRAIN DOWN INSIDE THE BRICK FASCIA AROUND THE COLUMN
  - 15 NEW SOFFIT ACCESS PANEL, PAINT TO MATCH PLASTER CEILING
  - 16 NEW PLASTER CEILING, PAINTED
  - 17 REINSTALL EXISTING MASONRY
  - 18 EXISTING STRUCTURE ABOVE
  - 19 EXISTING BUILDING LOCATION AT FIRST LEVEL
  - 20 EXISTING CMU WALL TYP.
  - 21 EXISTING CONCRETE COLUMN TYP.
  - 22 EXISTING PLASTER CONTROL JOINTS AT CEILING TO REMAIN AND TO BE COVERED DURING CONSTRUCTION
  - 23 NEW ROOF DRAIN PIPE
  - 24 PAINT AND PATCH IF NECESSARY FULL EXTENT OF EXISTING WALL
  - 25 CONCRETE CURB
  - 26 SEAL AND PATCH PIPING PENETRATION INTO THE ELECTRICAL ROOM.
  - 27 ENTIRE PLASTER CEILING TO BE PAINTED TO MATCH EXISTING PAINT
  - 28 EXISTING SOFFIT VENT
  - 29 NEW BACKER ROD AND SEALANT AT JOINT
  - 30 RE-ROUTE DRAIN TO DISCHARGE THROUGH THE BRICK COLUMN USING A DOWNSPOUT NOZZLE (J.R. SMITH MODEL 1770 OR APPROVED EQUIVALENT.)
  - 31 NEW 6" C.M.U. WALL BACK-UP WITH HORIZONTAL AND VERTICAL REINFORCING. NEW CMU TO BE TIED INTO EXISTING MASONRY SYSTEM. CELLS FILLED SOLID WITH GROUT
  - 32 CONSTRUCTION FENCE SEE AD1.0
  - 33 JERSEY BARRIER
  - 34 EXISTING SWITCH GEAR

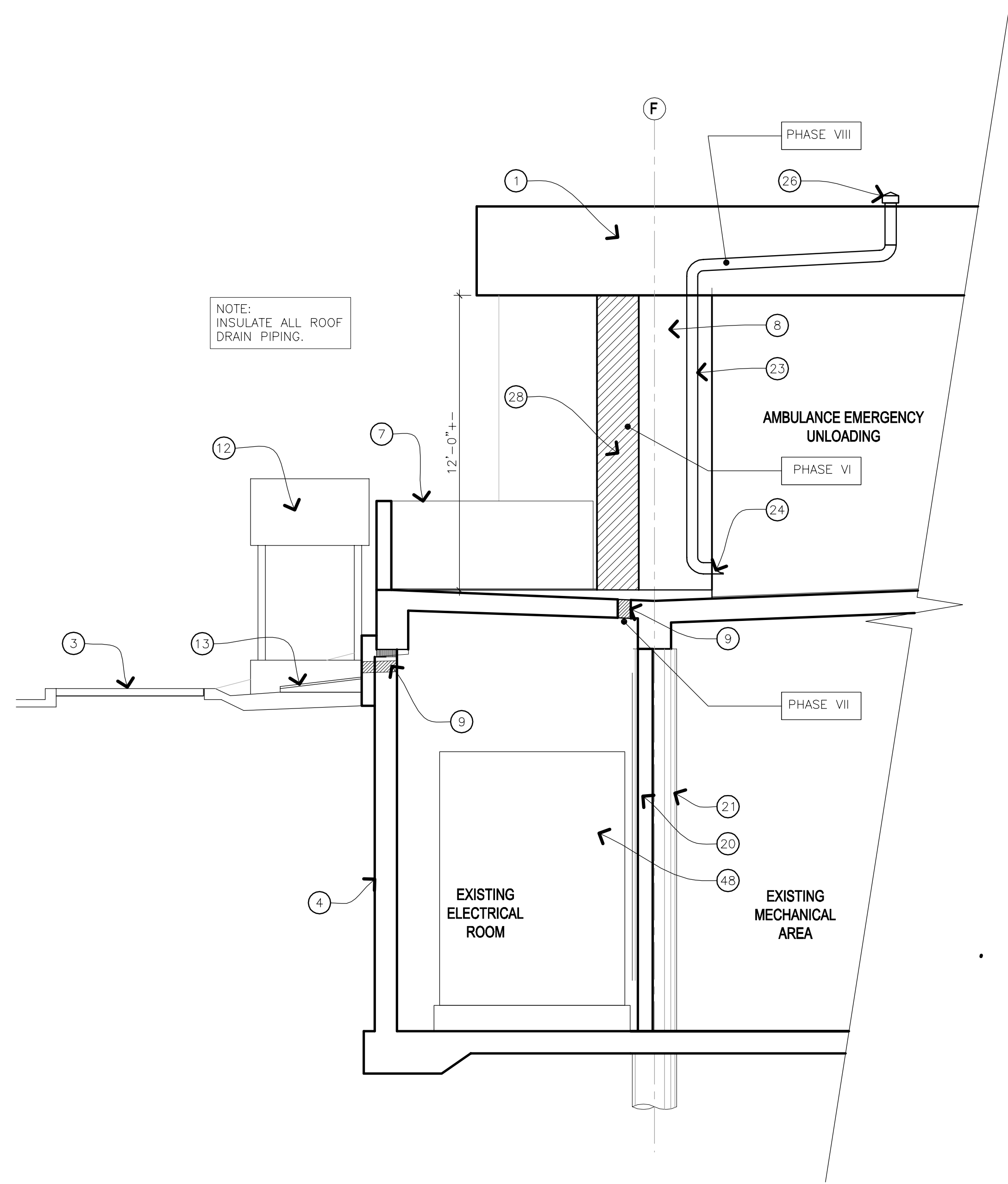


		CONSULTANTS:	Concur M & O	Approved: Service Chief	100% SUBMITTAL	ARCHITECT:  WEST EAST DESIGN GROUP   200 E. GRAYSON ST., SUITE 207, SAN ANTONIO, TEXAS 78215 USA 210.530.0755 Fax: 210.293.1018 <small>These documents can not be copied or reproduced without written consent from WestEast Design Group.</small>	Drawing Title FLOOR PLAN - NEW WORK BASEMENT PLAN - NEW WORK REFLECTED CEILING PLAN - NEW WORK		Project Title MAIN ELECTRICAL DISTRIBUTION - SWITCHGEAR		Project Number 671-14-114		Office of Facilities Management
			Concur Bio-Med	Approved: Service Chief			Approved: Project Director		Location Audie L. Murphy Memorial Veterans Hospital San Antonio, Texas		Building Number 1		
			Concur Safety	Approved: Service Chief			Date 2 DECEMBER 2014		Checked RI	Drawn FT	Drawing Number AS1.0		
			Approved: Service Chief	Approved: Service Chief			Dwg. 6 of 8						
			Approved: Service Chief	Approved: Chief of Staff									
Revisions:		ADDENDUM NO. 1	5-15-2015										Department of Veterans Affairs
		Date											

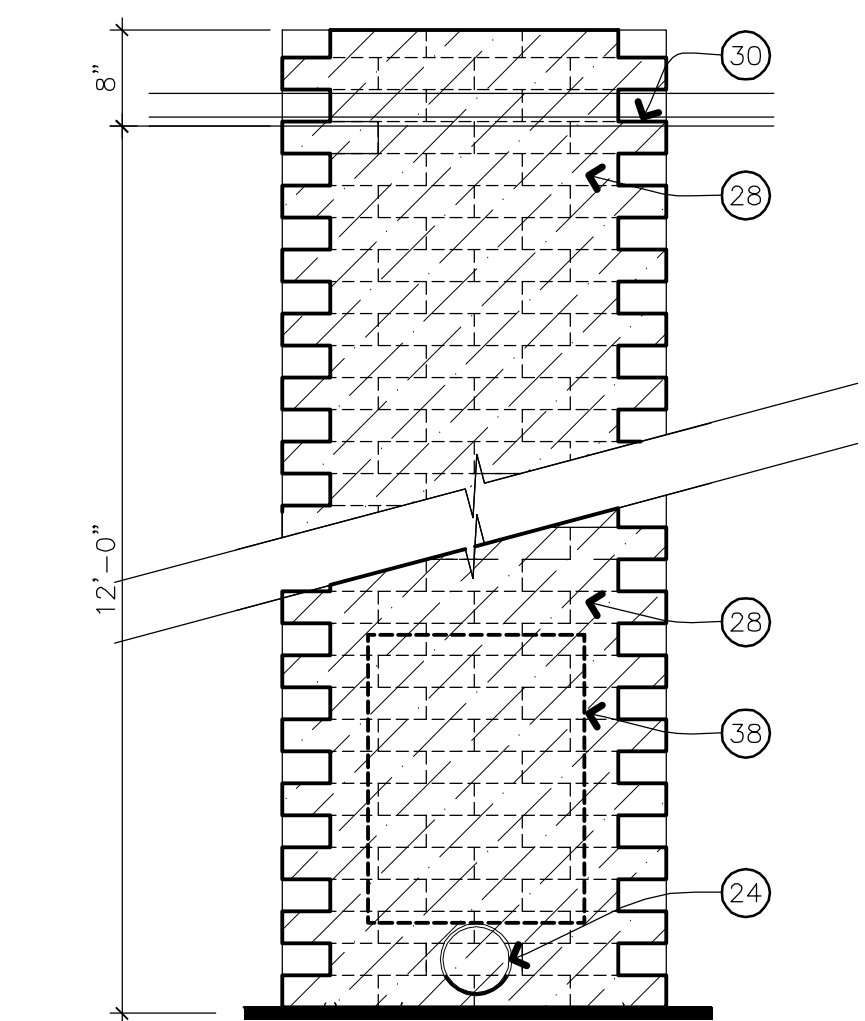


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one eighth inch = one foot

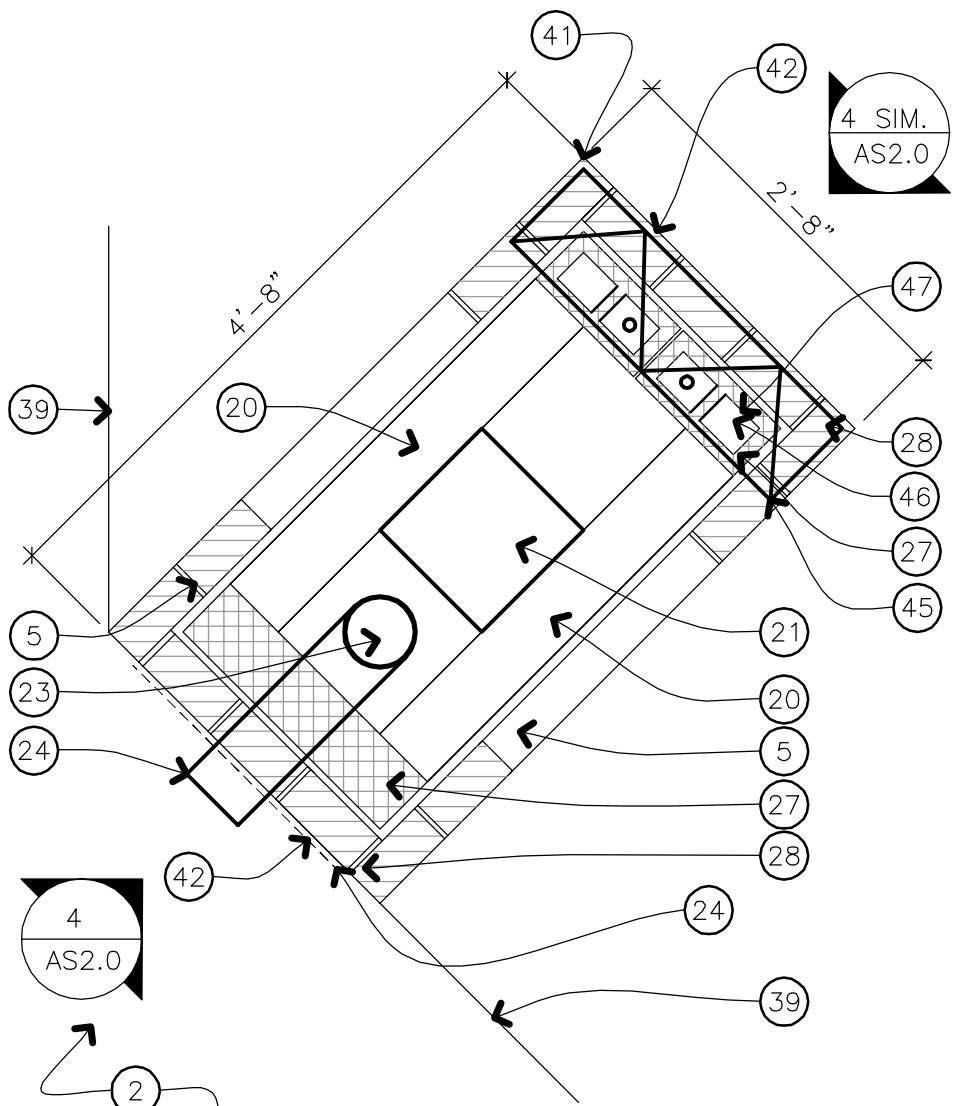
1 2 3 4 5 6 7 8 9



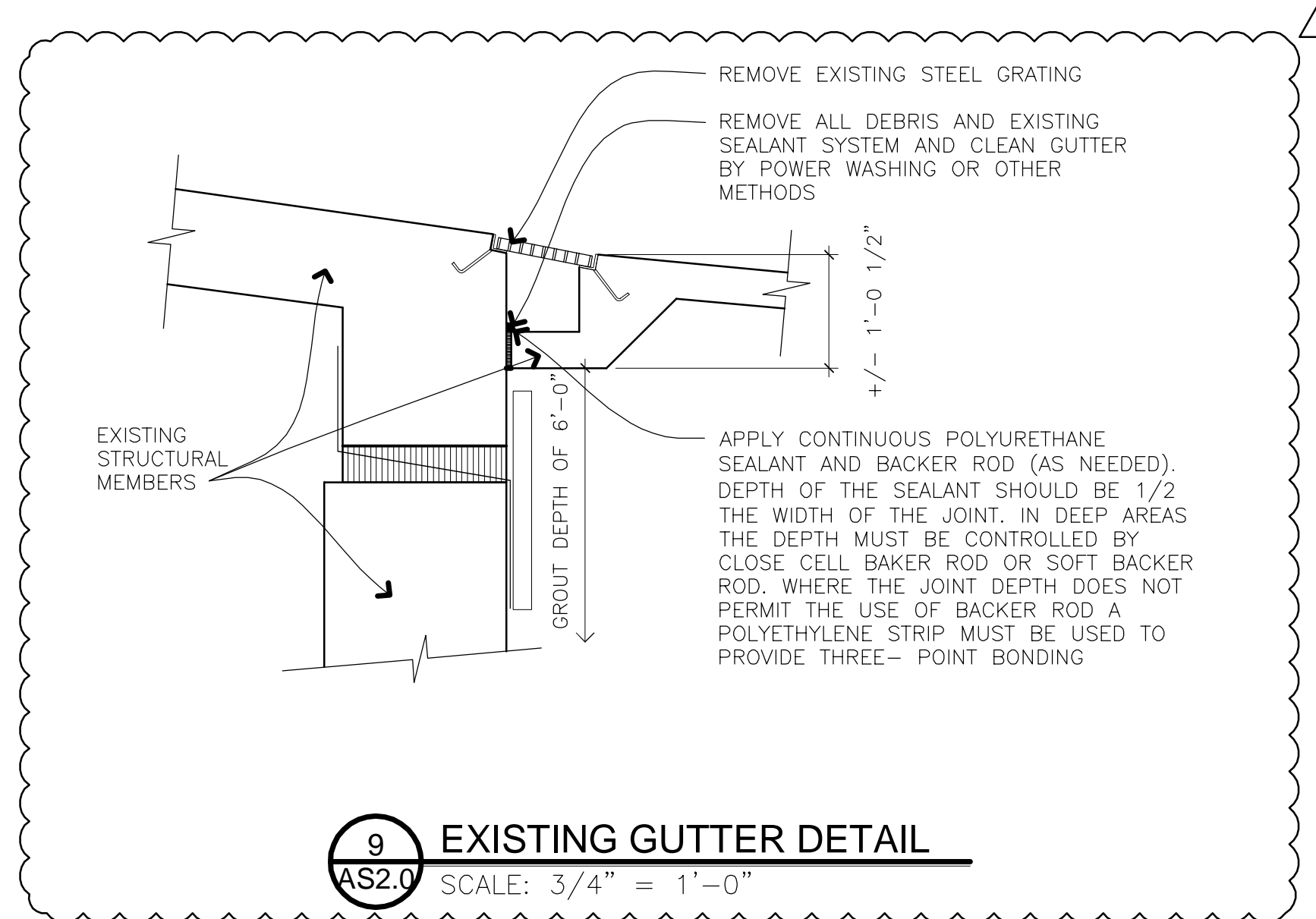
7 PARTIAL BUILDING SECTION -NEW WORK  
SCALE: 1/4" = 1'-0"



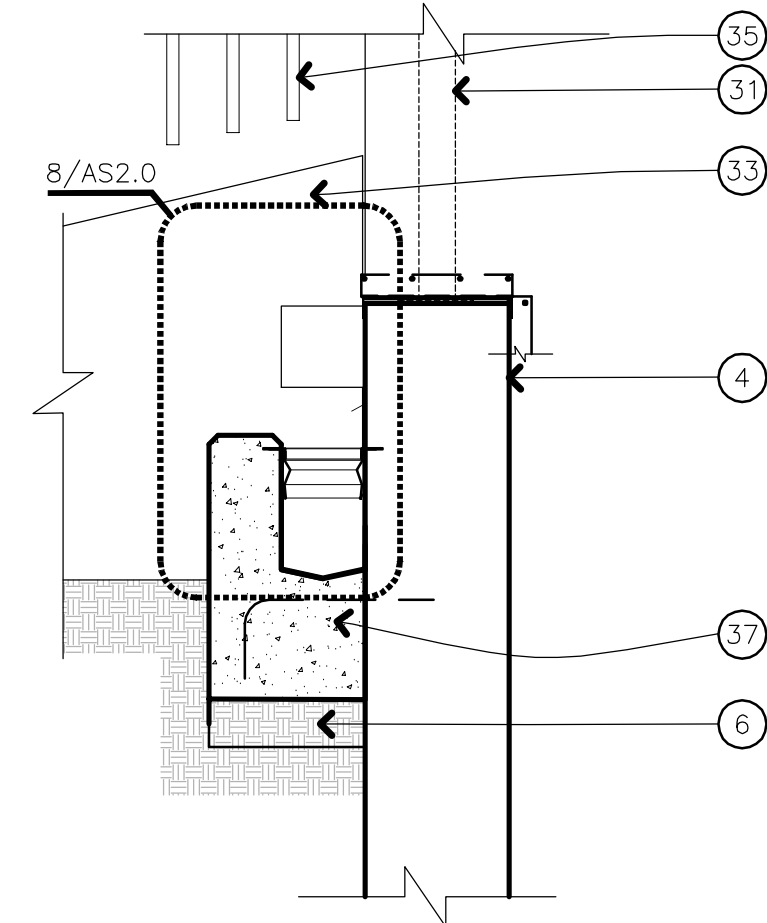
4 COLUMN ELEVATION DETAIL  
SCALE: 3/4" = 1'-0"



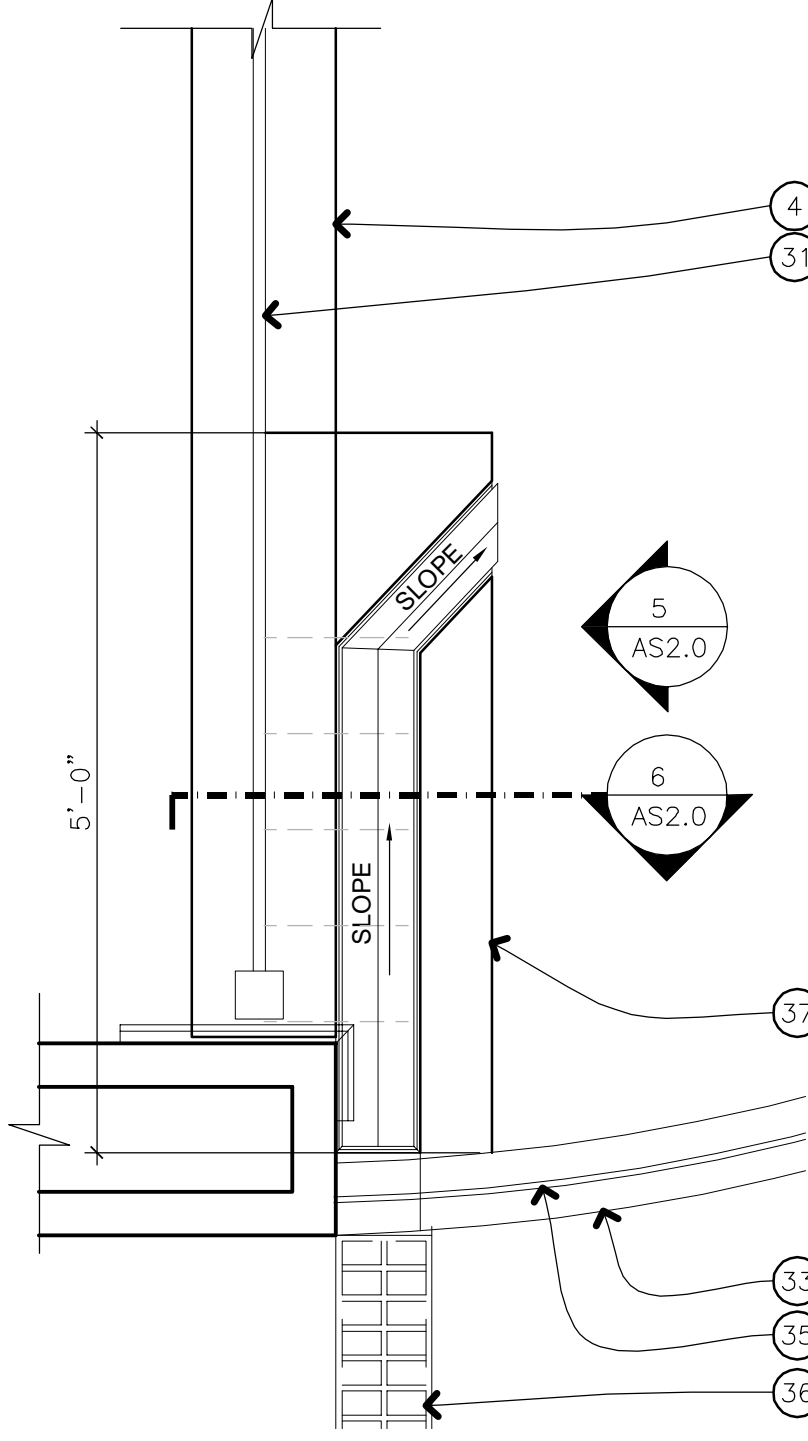
3 COLUMN PLAN DETAIL -NEW WORK  
SCALE: 3/4" = 1'-0"



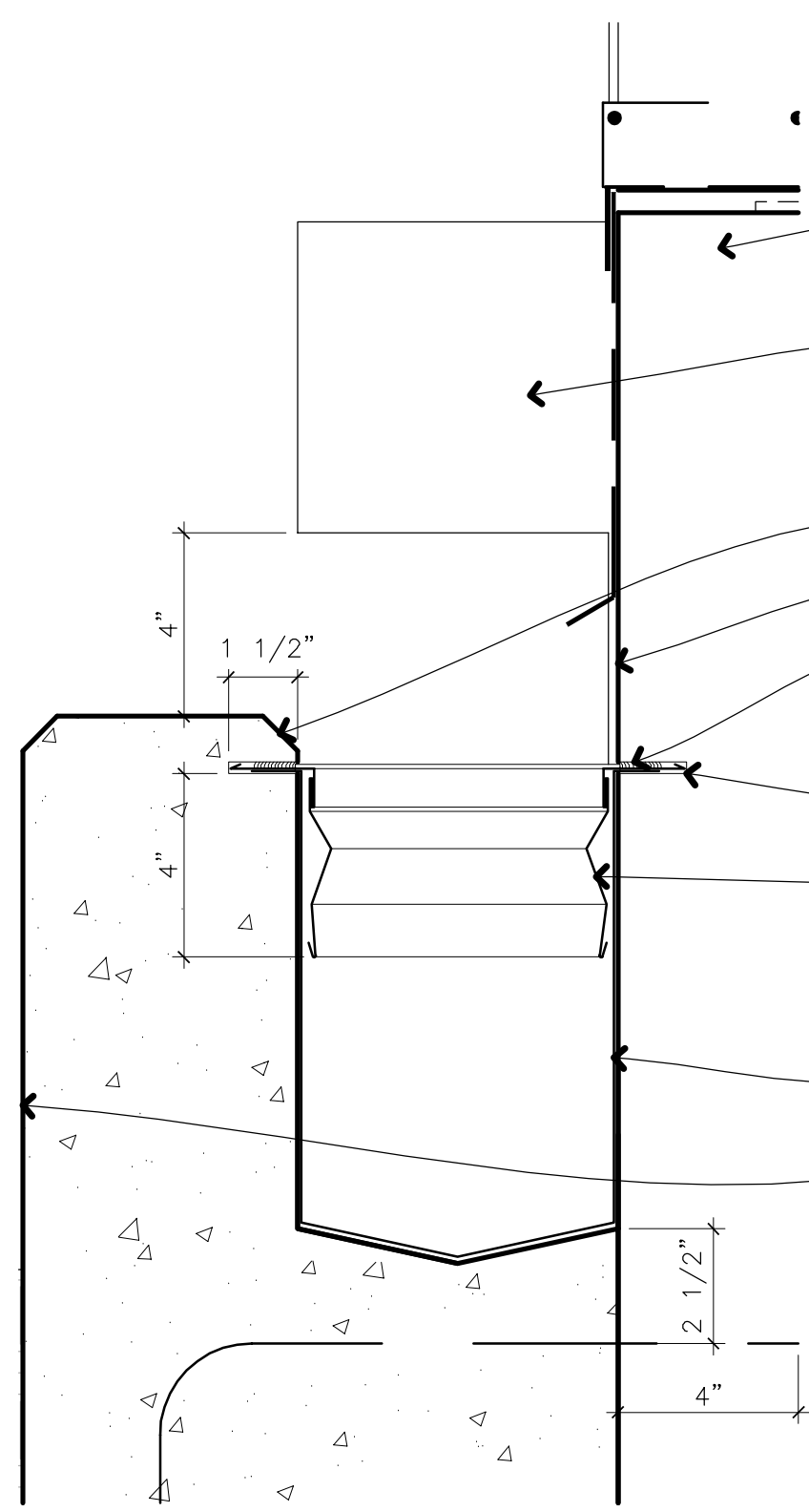
9 EXISTING GUTTER DETAIL  
SCALE: 3/4" = 1'-0"



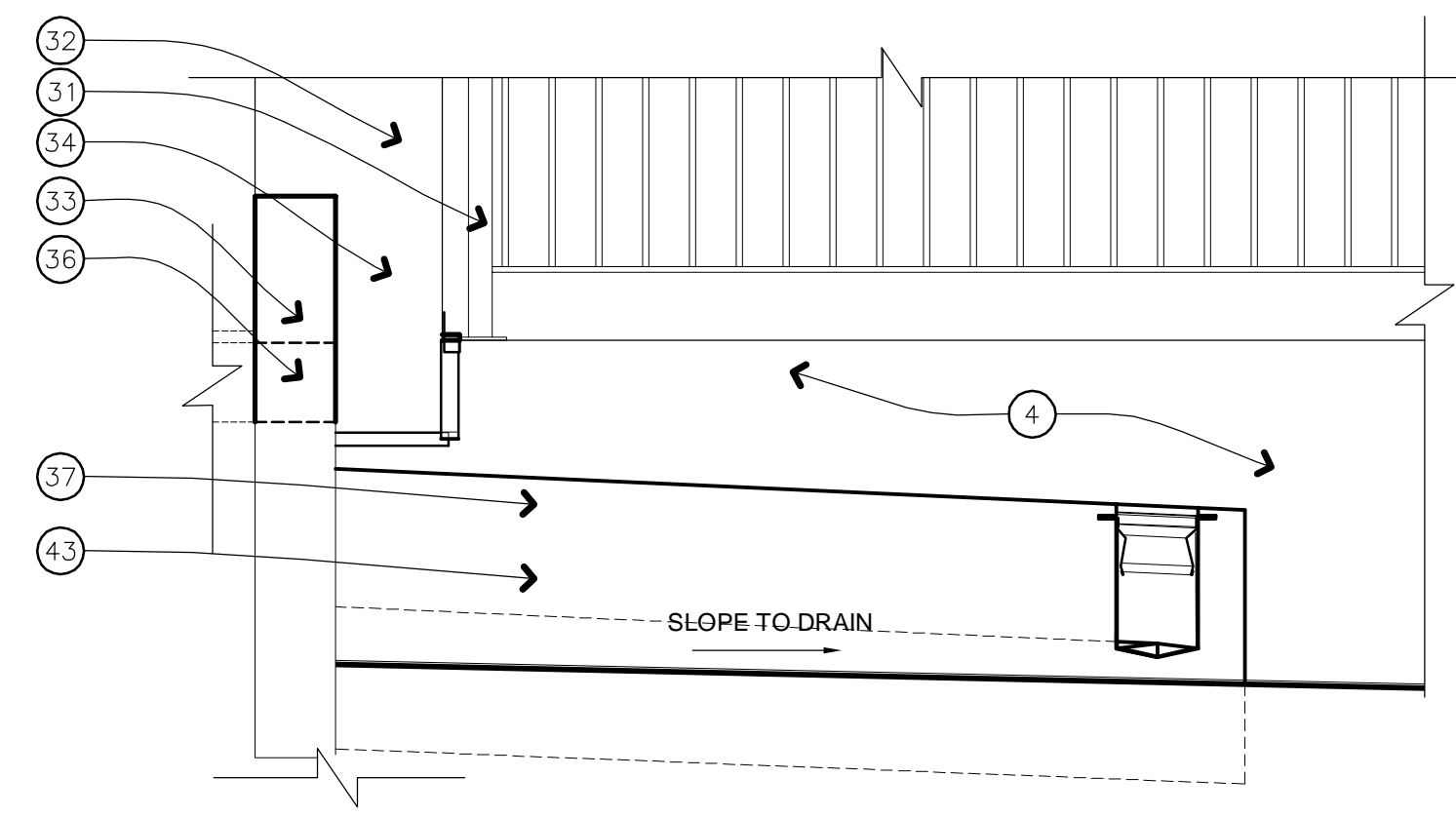
6 DETAIL SECTION  
SCALE: 3/4" = 1'-0"



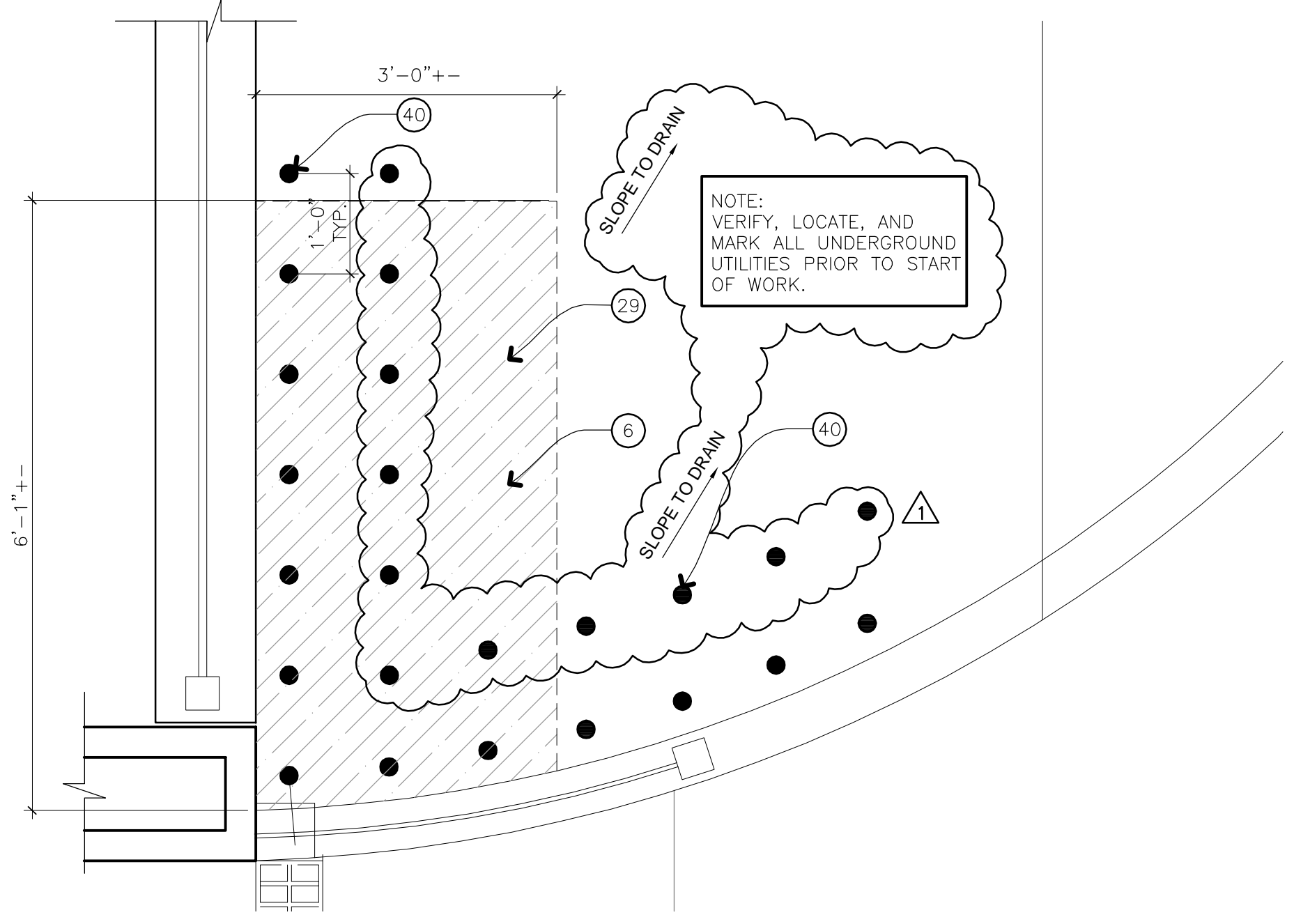
2 DETAIL PLAN  
SCALE: 3/4" = 1'-0"



8 FLASHING DETAIL  
SCALE: 3" = 1'-0"



5 DETAIL ELEVATION  
SCALE: 3/4" = 1'-0"



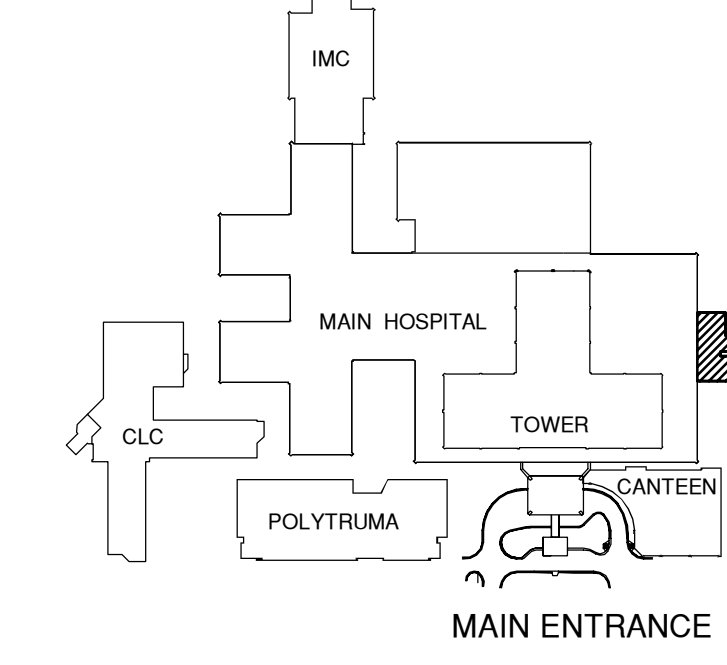
1 EXCAVATION PLAN  
SCALE: 3/4" = 1'-0"


## GENERAL NOTE

1. VERIFY AND LOCATE ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK
2. GC IS TO PROTECT THE NEW CMU AND BRICK WALLS FROM BEING BUMPED DURING CONSTRUCTION.

## KEY NOTES

- 1 EXISTING CANOPY
- 2 EXISTING ASPHALT DRIVEWAY
- 3 EXISTING CONCRETE SIDEWALK
- 4 EXISTING RETAINING WALL
- 5 EXISTING BRICK VENEER TO REMAIN
- 6 AREA OF EXCAVATION FOR NEW CONCRETE TRENCH AS SHOWN ON DRAWINGS  
NOTE: WHERE GROUND WATER IS ENCOUNTERED DURING EXCAVATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY DE-WATER THE EXCAVATION
- 7 EXISTING LOW BRICK WALL
- 8 EXISTING BRICK COLUMN
- 9 REFER TO STRUCTURAL ENGINEER DRAWINGS FOR FILLING OF THE CAVITY
- 10 EXISTING METAL FLASHING TO REMAIN (DO NOT REMOVE)
- 11 REMOVE AND CLEAN EXISTING METAL FLASHING AND PREP FOR NEW SEALANT
- 12 EXISTING SIGNAGE
- 13 EXISTING SPLASH BLOCK
- 14 CONTINUOUS SEALANT
- 15 CUT A REGLET IN THE EXISTING CONCRETE RETAINING WALL AND NEW CONCRETE TRENCH
- 16 26GA. (0.477 mm) STAINLESS STEEL COUNTER FLASHING, LAP COUNTER FLASHING AT CORNERS AND JOINTS
- 17 29 GA. STAINLESS STEEL TRENCH LINING
- 18 REINSTALL EXISTING METAL FLASHING NEW SEALANT
- 19 EXISTING METAL FLASHING TO REMAIN
- 20 EXISTING 6" CMU
- 21 EXISTING CONCRETE COLUMN
- 22 EXISTING PLASTIC FLASHING TO REMAIN
- 23 RE-ROUTE 6" DRAIN DOWN INSIDE BRICK COLUMN
- 24 DISCHARGE THROUGH THE SIDE OF THE BRICK COLUMN USING A DOWNSPOUT NOZZLE ( J.R. SMITH MODEL 1770 OR APPROVED EQUIVALENT.)
- 25 REMOVE ROOF DRAIN PIPING IN ELECTRICAL ROOM BELOW AND PATCH THE PIPING PENETRATION
- 26 EXISTING ROOF DRAIN TO REMAIN
- 27 NEW 6" CMU WALL TO MATCH ADJACENT CMU WALL
- 28 REINSTALL SALVAGED BRICK AND NEW BRICK IF NEEDED. NEW BRICK TO MATCH EXISTING BRICK COLOR, SIZE AND FINISH
- 29 NEW FILL
- 30 EXISTING PLASTER CEILING
- 31 EXISTING METAL FENCE ON TOP OF RETAINING WALL
- 32 EXISTING BRICK WINDSCREEN
- 33 EXISTING CONCRETE RETAINING WALL
- 34 METAL FLASHING TO REMAIN
- 35 EXISTING METAL FENCE ON TOP OF THE CONCRETE CURB
- 36 EXISTING TRENCH DRAIN OPENING AT RETAINING WALL
- 37 NEW CONCRETE TRENCH WALL, SEE STRUCTURAL
- 38 REINSTALLED SIGN
- 39 SAW CUT REGLET
- 40 PROBE GROUT THE EXTERIOR RETAINING WALLS WITH A MOISTURE SENSITIVE POLYURETHANE TO PROVIDE A WATER RESISTANT BARRIER. REFER TO MANUFACTURER'S RECOMMENDATION FOR INJECTION PROBE LAYOUT. SEE SPEC FOR ADDITIONAL INFORMATION.  
NOTE: COORDINATE WITH EXISTING OCCUPIED SPACE BELOW.
- 41 SAW TOOTH ALL JOINTS
- 42 PROVIDE AND INSTALL WEEPS AND MASONRY ANCHORS
- 43 PROVIDE WHITEWASH FINISH
- 44 PROVIDE CHAMFERED EDGES
- 45 CONTINUOUS HORIZONTAL WALL REINFORCING SPACED @ 16" O.C.
- 46 CONCRETE MASONRY UNIT NOTES, SEE STRUCTURAL NOTES.
- 47 DAMP PROOFING
- 48 EXISTING SWITCHGEAR



		CONSULTANTS:	Concur M & O	Approved: Service Chief	100% SUBMITTAL	ARCHITECT:  WEST EAST DESIGN GROUP  200 E. GRAYSON ST., SUITE 207, SAN ANTONIO, TEXAS 78215 USA 210.530.0755 Fax: 210.293.1018 <small>These documents can not be copied or reproduced without written consent from WestEast Design Group</small>	Drawing Title PARTIAL BUILDING SECTION COLUMN DETAIL AND DETAIL SECTION		Project Title MAIN ELECTRICAL DISTRIBUTION - SWITCHGEAR		Project Number 671-14-114		Office of Facilities Management  Department of Veterans Affairs
			Concur Bio-Med	Approved: Service Chief			Approved: Project Director		Location Audie L. Murphy Memorial Veterans Hospital San Antonio, Texas		Building Number 1		
			Concur Safety	Approved: Service Chief			Date 2 DECEMBER 2014		Checked RI		Drawn FT		
			Approved: Service Chief	Approved: Service Chief			Dwg. 7 of 8		AS2.0				
			Approved: Service Chief	Approved: Chief of Staff									