

FOUNDATION STABILIZATION

560 JEFFERSON ST, PALM HARBOR, FL.

SCOPE OF WORK:
INSTALLATION OF 12 EXTERIOR PUSH PIERS AND 6 INTERIOR SLAB PIERS FOR STABILIZATION OF EXISTING STRUCTURE.
NO CHANGE IN OCCUPANCY, USE, OR STRUCTURAL CONFIGURATION.

ABBREVIATIONS:

(E) - EXISTING
(N) - NEW
FP - FIREPLACE
AC - AIR CONDITIONING UNIT
G - GAS
W - WATER
PP - PUSH PIER
PT - PRESSURE TREATED
BOF - BOTTOM OF FOOTING
EOR - ENGINEER OF RECORD
SOG - SLAB ON GRADE

STRUCTURAL OBSERVATIONS

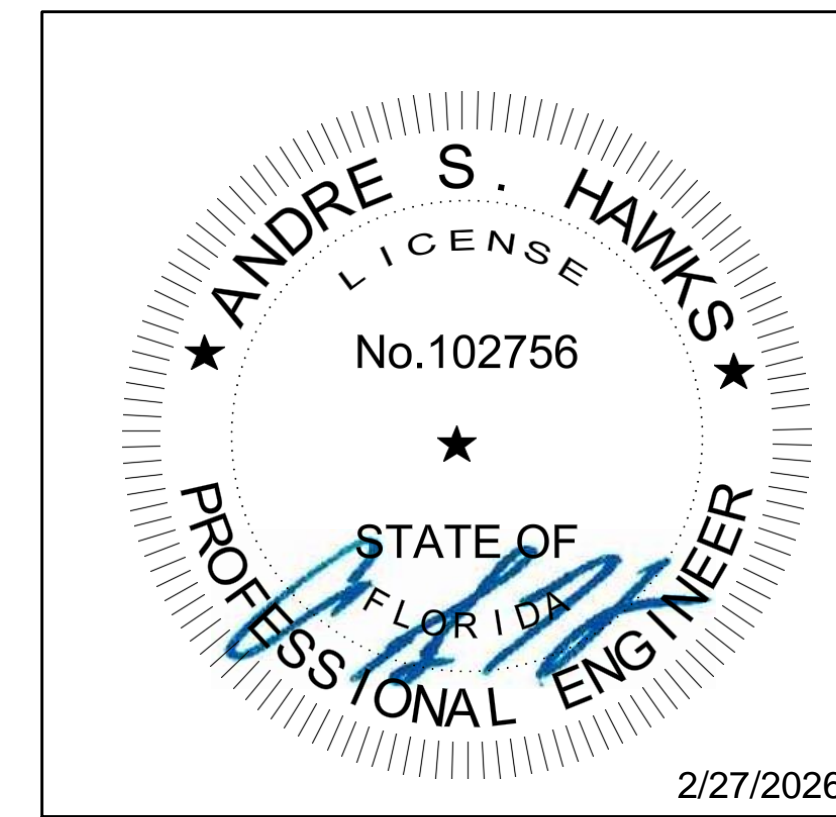
STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE ENGINEER OF RECORD (EOR) OR A REPRESENTATIVE UNDER THE DIRECT SUPERVISION OF THE EOR.
STRUCTURAL OBSERVATIONS SHALL BE PERFORMED PERIODICALLY DURING INSTALLATION TO VERIFY GENERAL CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND APPLICABLE MANUFACTURER REQUIREMENTS.



1 **PROJECT LOCATION**
24x36 SCALE: NTS

SHEET INDEX

S0: COVER SHEET
S0.1: GENERAL NOTES
S1.0: SITE PLAN & PIER DETAILS
S1.1: SLAB PIER DETAILS



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DESIGN CRITERIA

BUILDING CODE: 2023 FLORIDA BUILDING CODE

APN: 01-28-15-17130-000-0030
EXISTING BUILDING AREA: 1,557 SQFT
NO. STORIES: 1
AUTOMATIC SPRINKLERS: NO.

MATERIALS

3.5" O. SCHEDULE 40 STEEL PIPE
ASTM A252 GRADE 2 STEEL (OR APPROVED EQUAL)
7" SECTIONS (CONTINUOUS SECTIONS UP TO 2' OPTIONAL)
INTERNAL MECHANICAL COUPLERS FOR CONCENTRIC BUTT-JOINT SPLICING
OPTION: FULL-PENETRATION WELDED SPLICES WHERE LONG SECTIONS USED
WELDED SPLICES OR LONGER SOLID SECTIONS RECOMMENDED IN WEAK/LOOSE SOILS
6"x6"x1/4" TUBE + 6" CHANNEL (18") WITH 20-TON PRELOAD; (2) 2" SCH 40 INSERTS; NO SHIMMING AS PRIMARY LOAD PATH.
12" OF GRADE: ZINC-RICH COLD GALVANIZING + PROTECTIVE ENAMEL TOPCOAT
ASTM A252 GRADE 2 STEEL (FY = 35 KSI)
3" SCHEDULE 40 (NPS 3)
OUTSIDE DIAMETER (O.D.): 3.500 IN (88.9 MM)
WALL THICKNESS: 0.216 IN (5.49 MM)

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Project:
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SHEET TITLE
COVER SHEET

PROJECT NO

SHEET NO

S0

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GENERAL NOTES

1. FACTORY WELDING NOTES

CONFORM TO AWS D1.1 USING WELDERS CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS. USE E70XX ELECTRODES OF TYPE REQUIRED FOR MATERIALS TO BE WELDED.

2. PUSH PIER INSTALLATION

PIERS SHALL BE HYDRAULICALLY DRIVEN TO REFUSAL. INSTALLATION PRESSURES AND FINAL ELEVATIONS SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER OF RECORD.

LIFT PERFORMANCE IS ULTIMATE DETERMINING CRITERIA:

PUSH PIER DESIGN LOAD = **3,300 LBS**

MIN PUSH PIER INSTALLATION PRESSURE, **PUSH TO REFUSAL**,
MINIMUM INSTALLATION DEPTH, **PUSH TO REFUSAL**, EXPECTED IS 10'-0-20'-0" ± UNO.

CONTACT ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER.

3. PUSH PIER SPLICING

PIERS ARE TO BE GRAVITY SPLICED WITH FITTING COUPLERS. BUILDING WEIGHT WILL ENSURE JOINTS TO NOT SEPARATE.

4. PUSH PIER ACCEPTANCE

ENGINEER OF RECORD (EOR) SHALL REVIEW PIER LOGS AND AS BUILTS FOR CONFORMANCE TO THESE PLANS. EOR SHALL APPROVE OF ALL PIER DEPTHS, LOCATIONS AND INSTALLATION PRESSURES. FINAL REPORT SHALL BE MADE AVAILABLE TO BUILDING DEPARTMENT OFFICIAL AT TIME OF FINAL INSPECTION.

5. WORK CONSISTS SOLELY OF VOLUNTARY FOUNDATION STABILIZATION OF AN EXISTING STRUCTURE.

6. ALL WORK SHALL COMPLY WITH THE 2023 FLORIDA BUILDING CODE (EXISTING BUILDING), WHERE APPLICABLE.

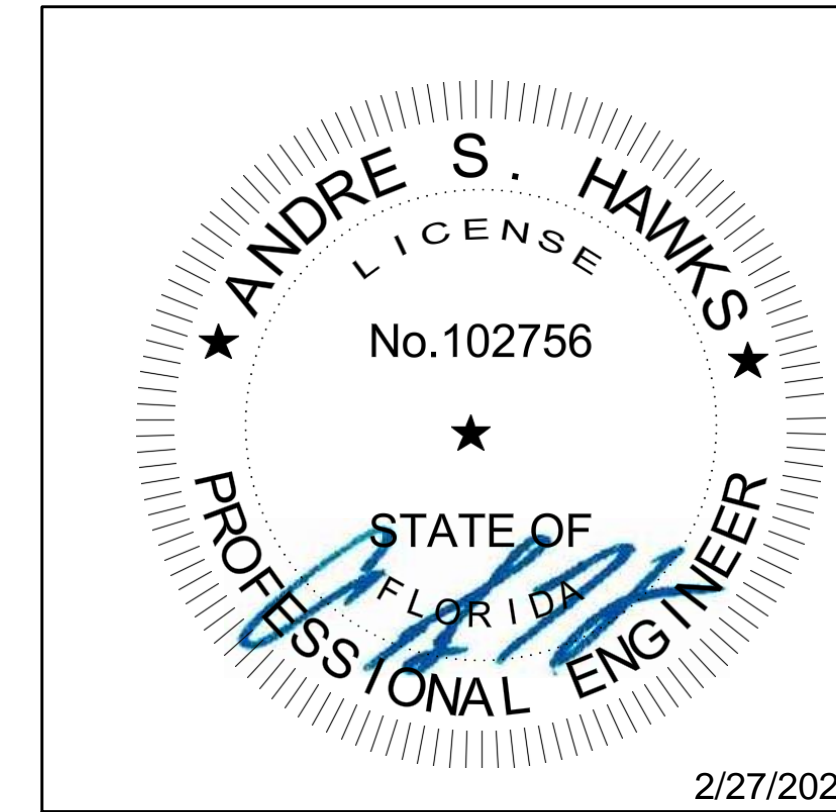
7. PIERS SHALL BE HYDRAULICALLY DRIVEN TO REFUSAL.

8. INSTALLATION PRESSURES AND FINAL ELEVATIONS SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER OF RECORD.

9. EXTERIOR PUSH PIER EXCAVATIONS SHALL BE BACKFILLED WITH CLEAN GRANULAR FILL SUITABLE FOR FLORIDA CONDITIONS (CLEAN SAND OR APPROVED NATIVE MATERIAL), FREE OF DEBRIS AND ORGANIC MATTER, AND COMPACTED

10. INTERIOR SLAB PIER INSTALLATIONS SHALL BE FILLED WITH 3,000 PSI MINIMUM CONCRETE AFTER INSTALLATION TO BOND THE BOTTOM OF SLAB TO THE TOP OF THE PIER CAP AND SECURE LOAD TRANSFER.

11. ANY UNFORESEEN FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PROCEEDING



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GENERAL NOTES

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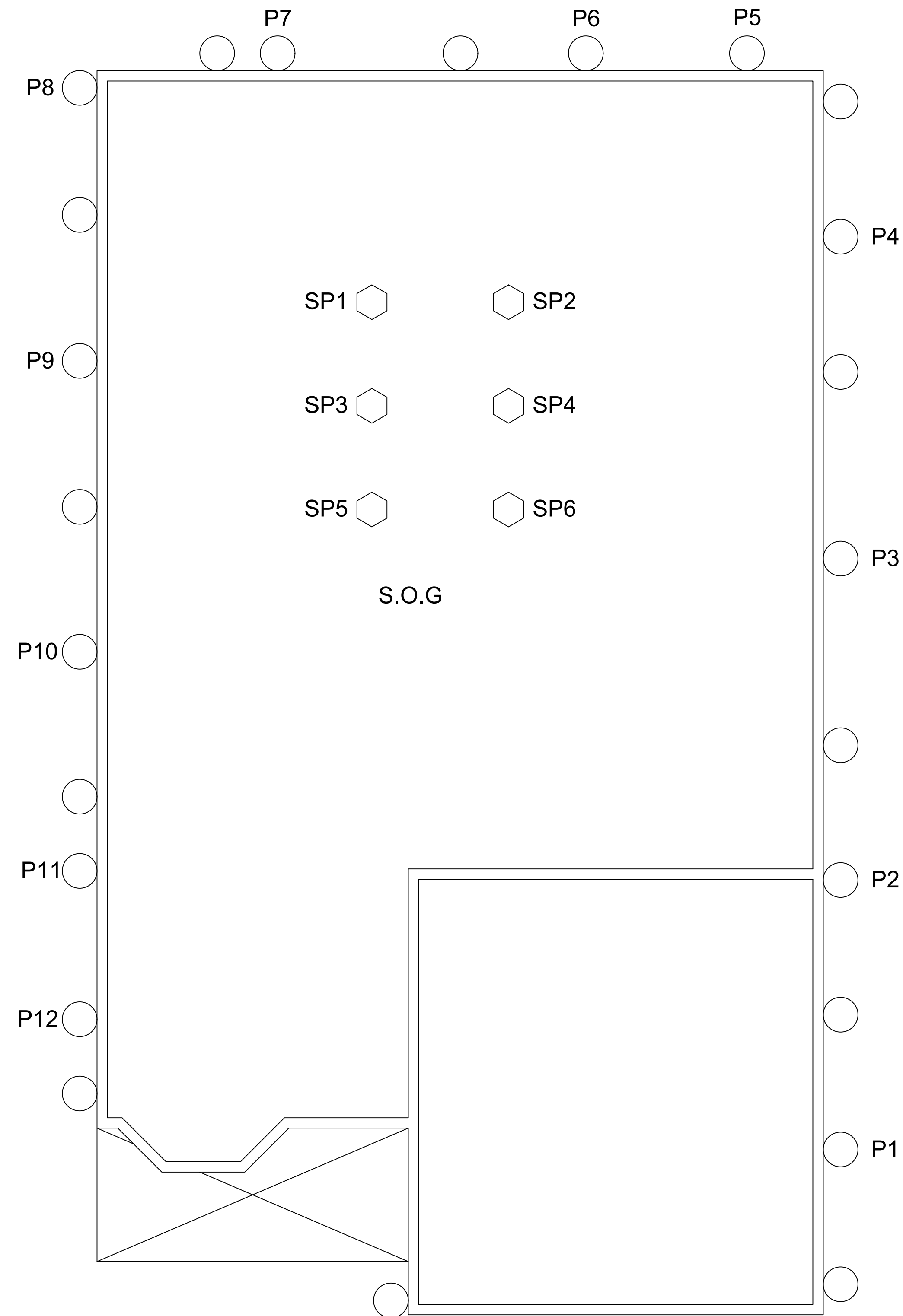
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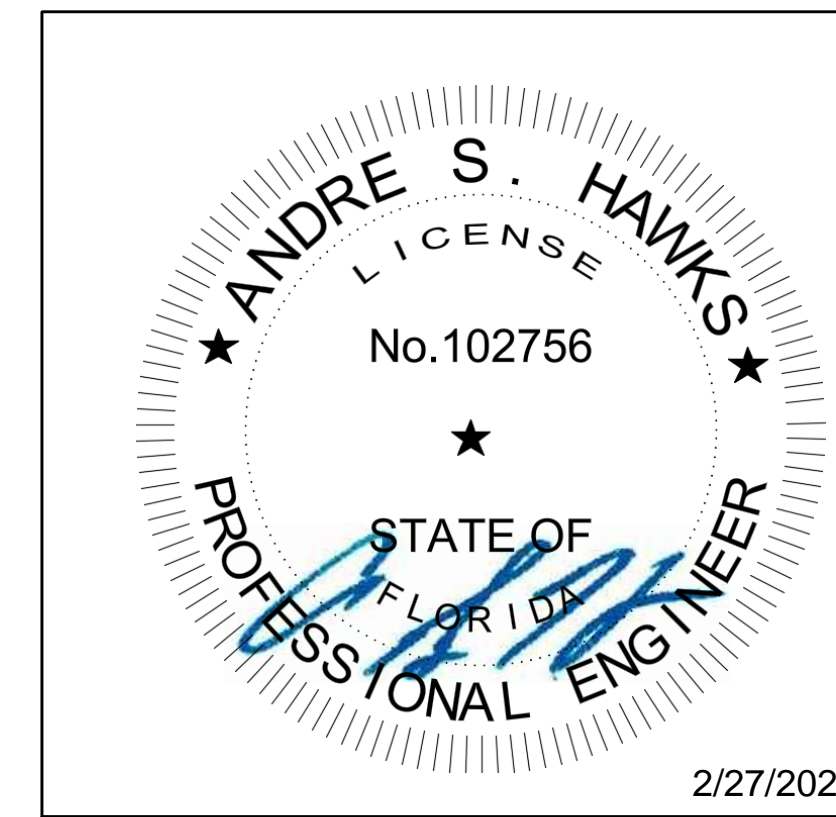
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NOTES:

1. PX ○ INDICATES LOCATION OF FM-PP25 PUSH PIER ASSEMBLY OR EQUIVALENT
2. SPX ○ INDICATES LOCATION OF FM-PP30 PUSH PIER W/ CONCENTRIC UNDERPINNING BRACKET OR EQUIVALENT
3. ○ INDICATES (E) PIER
4. PIER REPLACEMENT LOCATIONS TO BE DETERMINED BY FOUNDATION MASTERS DURING INSTALLATION.
5. EXACT PIER LOCATIONS SHALL BE DETERMINED IN THE FIELD BASED ON SITE CONDITIONS AND STRUCTURE REQUIREMENTS.



1 PARTIAL SITE PLAN
SCALE: 1/4" = 1' 0"



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SITE PLAN & PIER
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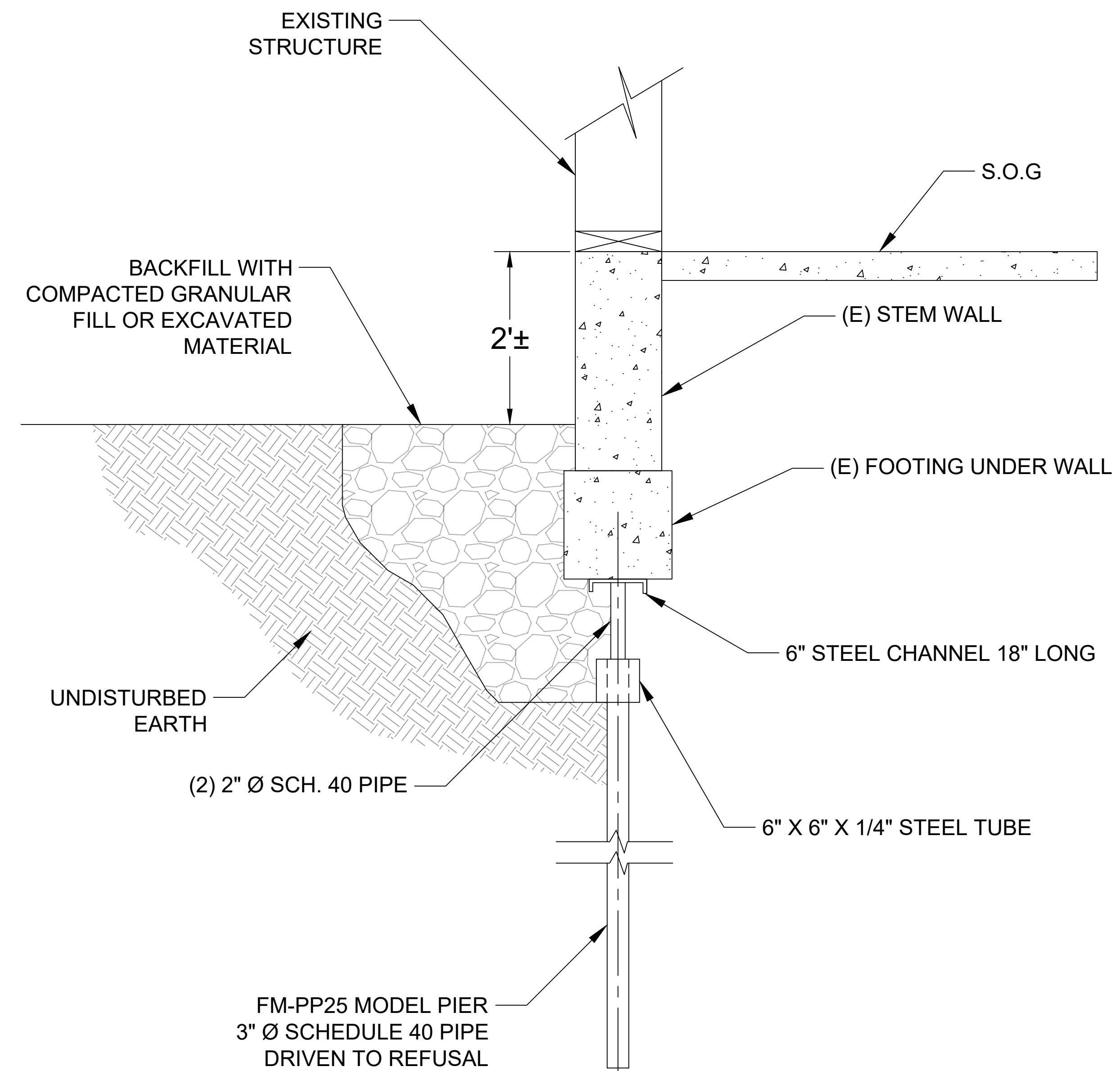
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S1

NOTES:

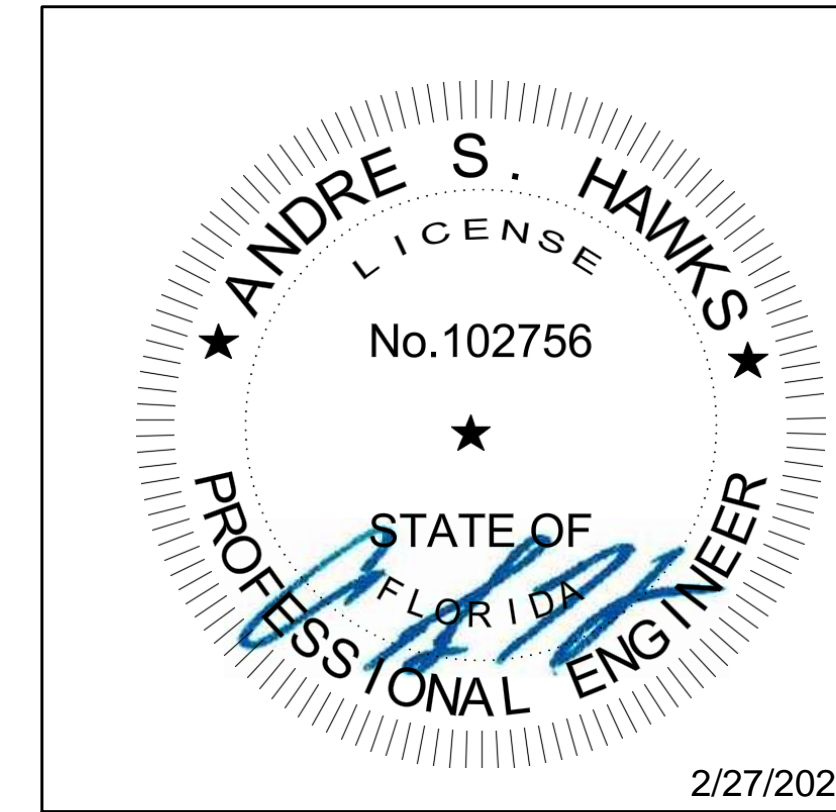
1. STEEL PIERS SHALL BE SCHEDULE 40 PIPE OR BETTER. ALL OTHER STEEL SHALL BE A36 OR BETTER.
2. PIERS SHALL BE FOUNDATION MASTERS PART LOP001 WITH MODIFICATIONS SHOWN IN DETAIL BELOW.
3. PIERS SHALL BE FILLED WITH HIGH STRENGTH GROUT AFTER INSTALLATION.



FM-PP25 MODEL PIER
3" Ø SCHEDULE 40 PIPE
DRIVEN TO REFUSAL

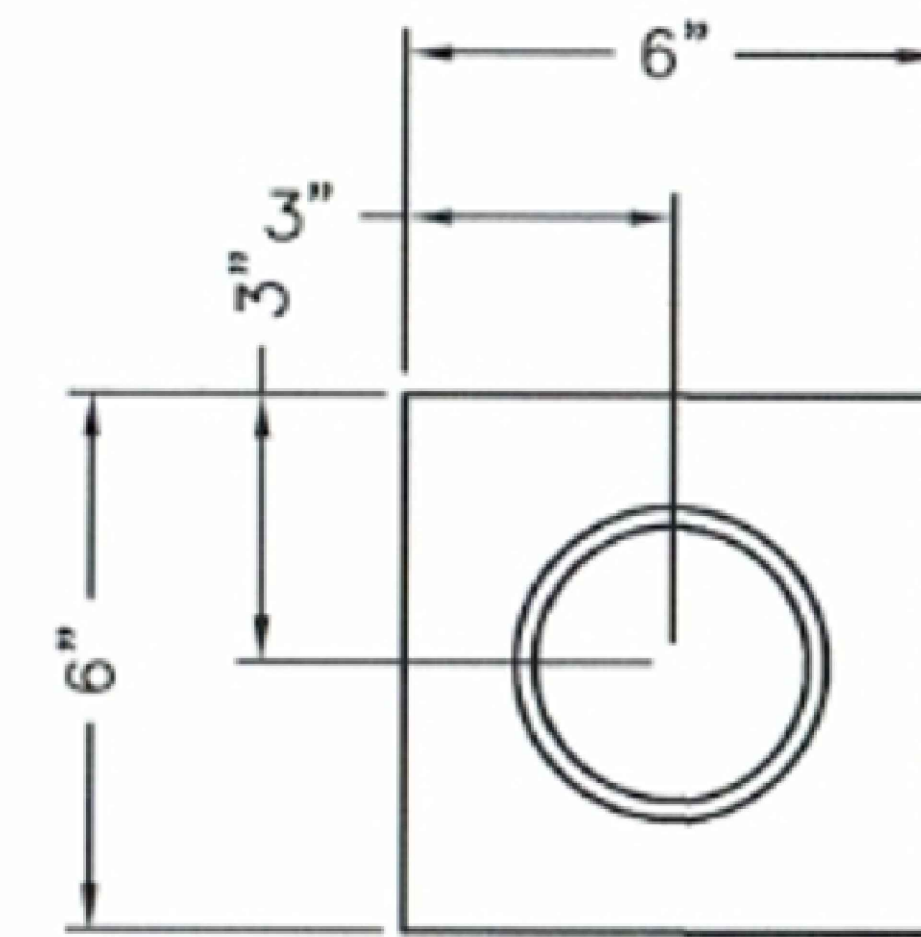
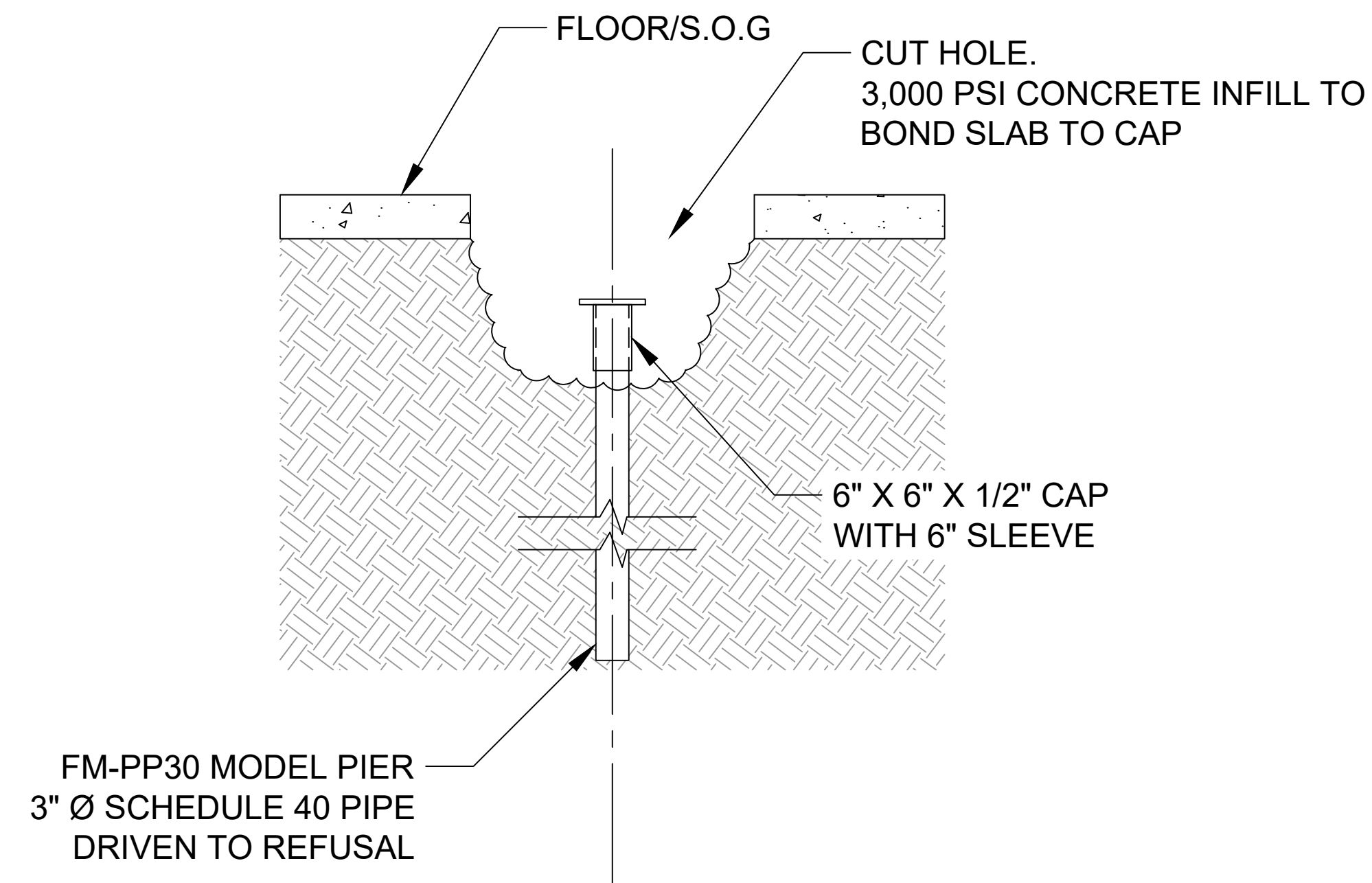
2 FM-PP25 UNDERPINNING BRACKET CUTSHEETS
SCALE: 1" = 1' 0"

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Cap Detail

NOTES:

- EXCAVATIONS FOR PUSH PIER INSTALLATION SHALL BE BACKFILLED UPON COMPLETION OF PUSH PIER INSTALLATION.
- VOIDS UNDER FOUNDATION SHALL BE FILLED WITH CONCRETE

1 FM-PP30 UNDERPINNING BRACKET CUTSHEETS
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