

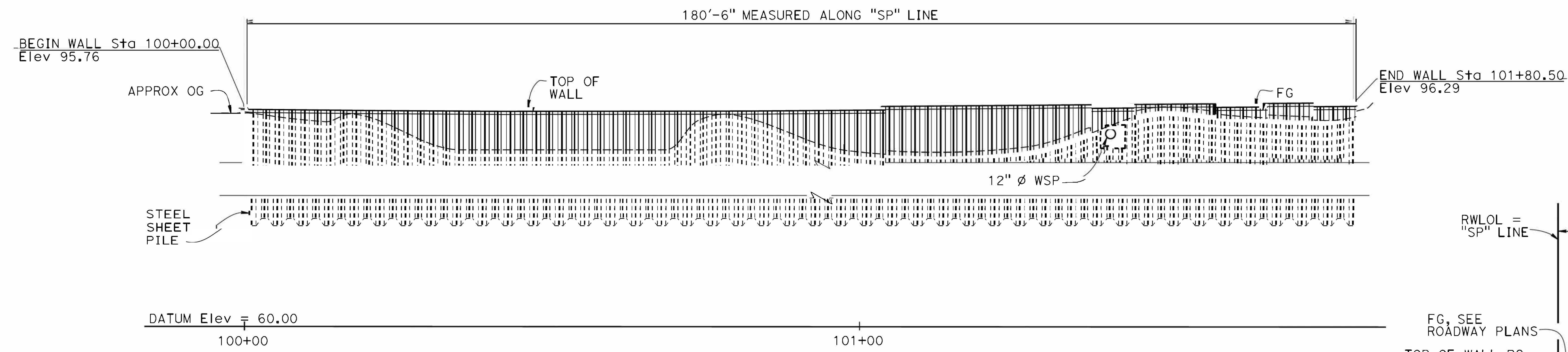
Sample Plan Set

Shoring

Links

Caltrans Standard Plans: <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>

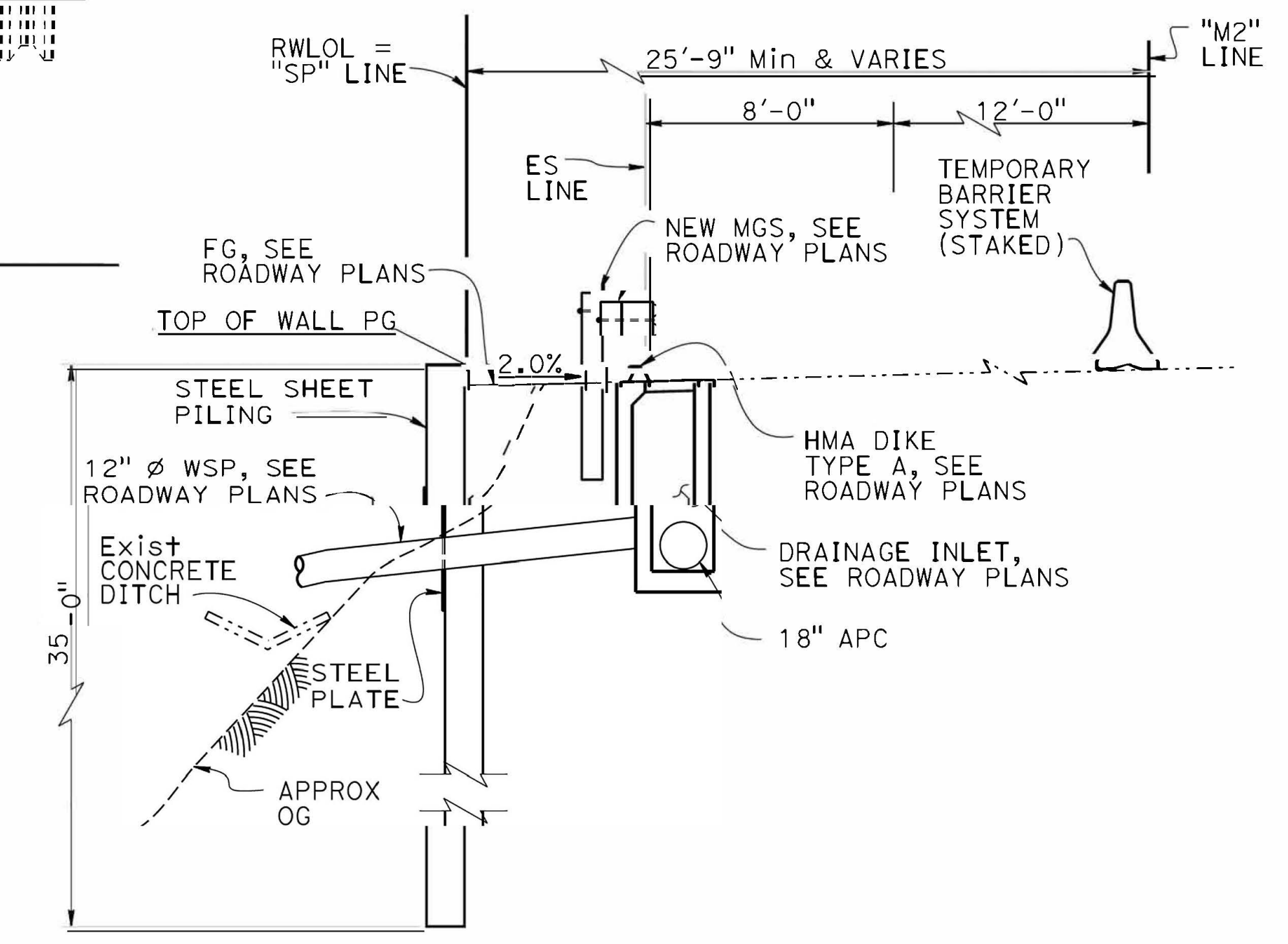
Caltrans Bridge Standard Details: <https://dot.ca.gov/programs/engineering-services/manuals/bridge-standard-details>



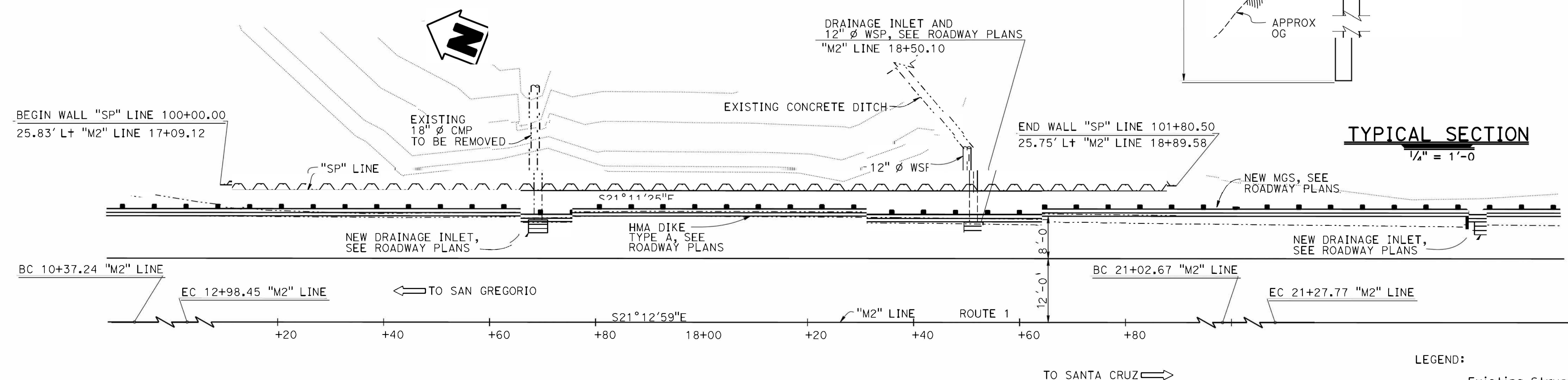
MIRRORED ELEVATION
1" = 10'

QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	1	CY
STRUCTURE BACKFILL (RETAINING WALL)	0.8	CY
STEEL SHEET PILING	6,318	SQFT
MISCELLANEOUS METAL (RETAINING WALL)	245	LB



TYPICAL SECTION
1/4" = 1'-0'



PLAN
1" = 10'

NOTE:

For "QUANTITIES", "GENERAL NOTES", "INDEX TO PLANS" and "STANDARD PLANS", see "INDEX TO PLANS" sheet

LEGEND:

- Existing Structure
- ▢ Drainage Inlet

Note:
While these sample plans reflect the typical Caltrans' practice, they do not relate to any actual Caltrans projects. These sample plans shall only be used as references to the general workflow documents.

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications,
8th edition with California Amendments,
preface dated April 2019

LIVE LOADING:
240 PSF uniform Surcharge loading

SEISMIC LOADING:
Per the Foundation Report dated June 17, 2021
see SOIL PARAMETERS

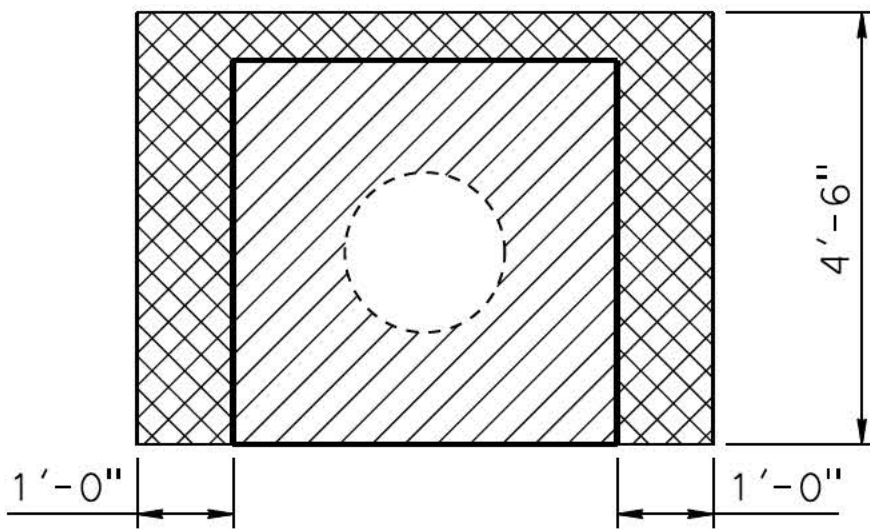
STEEL SHEET PILING:
Grade 50 ksi, PZ27 Sheet Pile or
equivalent (Min section modulus = 30.2 in³/ft)

SOIL PARAMETERS:
For Determination of Design Lateral Earth Pressure

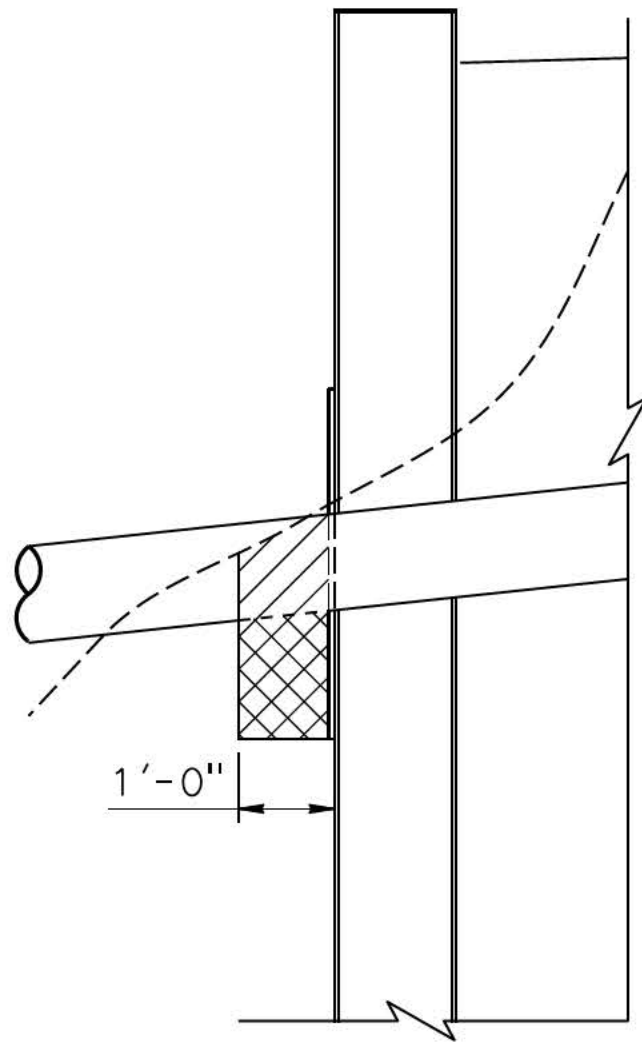
Soil Layer 1
 $\gamma = 120 \text{ lb/ft}^3$
Depth = FG to Elevation 83'
Seismic $K_h = 0.21$
 $\phi = 0^\circ$, $c = 700 \text{ psf}$

Soil Layer 2
 $\gamma = 120 \text{ lb/ft}^3$
Depth = 83' to Elevation 61'
Seismic $K_h = 0.21$
 $\phi = 32^\circ$, $c = 300 \text{ psf}$

Soil Layer 3
 $\gamma = 130 \text{ lb/ft}^3$
Depth = 61' to Elevation 57'
Seismic $K_h = 0.21$
 $\phi = 35^\circ$



ELEVATION



TYPICAL SECTION

Structure Excavation (RETAINING WALL)
Structure Backfill (RETAINING WALL)

LIMITS OF EXCAVATION AND BACKFILL
NO SCALE

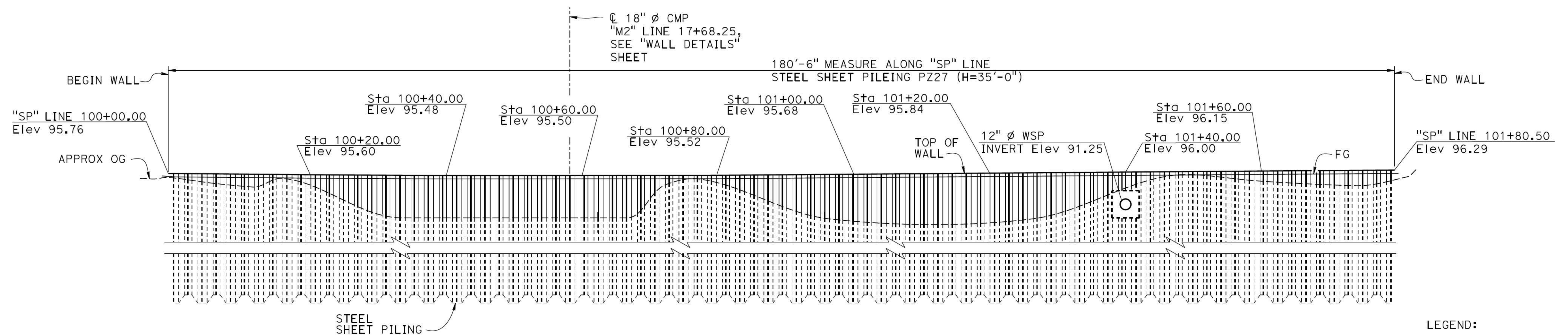
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INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	STRUCTURE PLAN
4	FOUNDATION PLAN
5	WALL DETAILS
6	LOG OF TEST BORINGS

STANDARD PLANS DATED 2018

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL



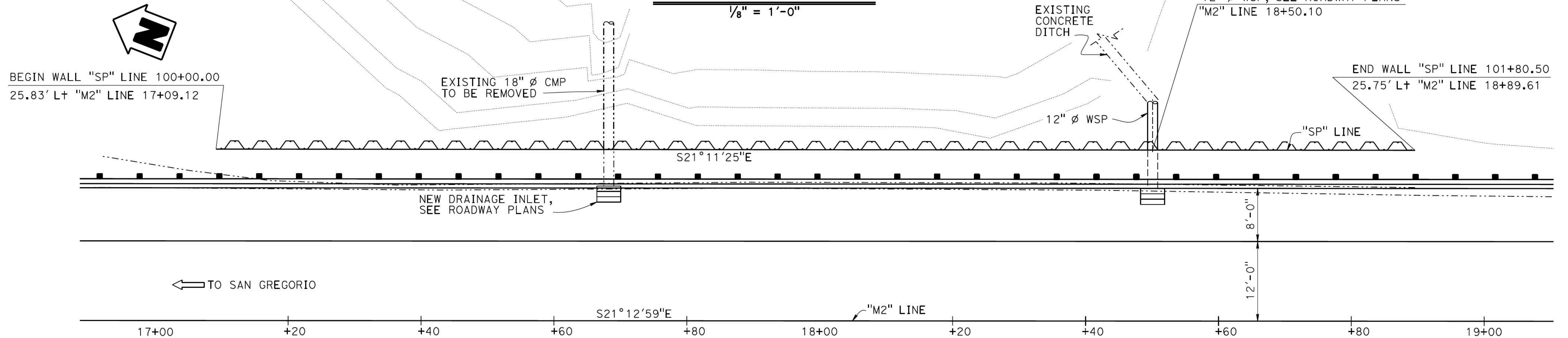
DATUM Elev = 60.00

100+00

101+00

MIRRORED ELEVATION

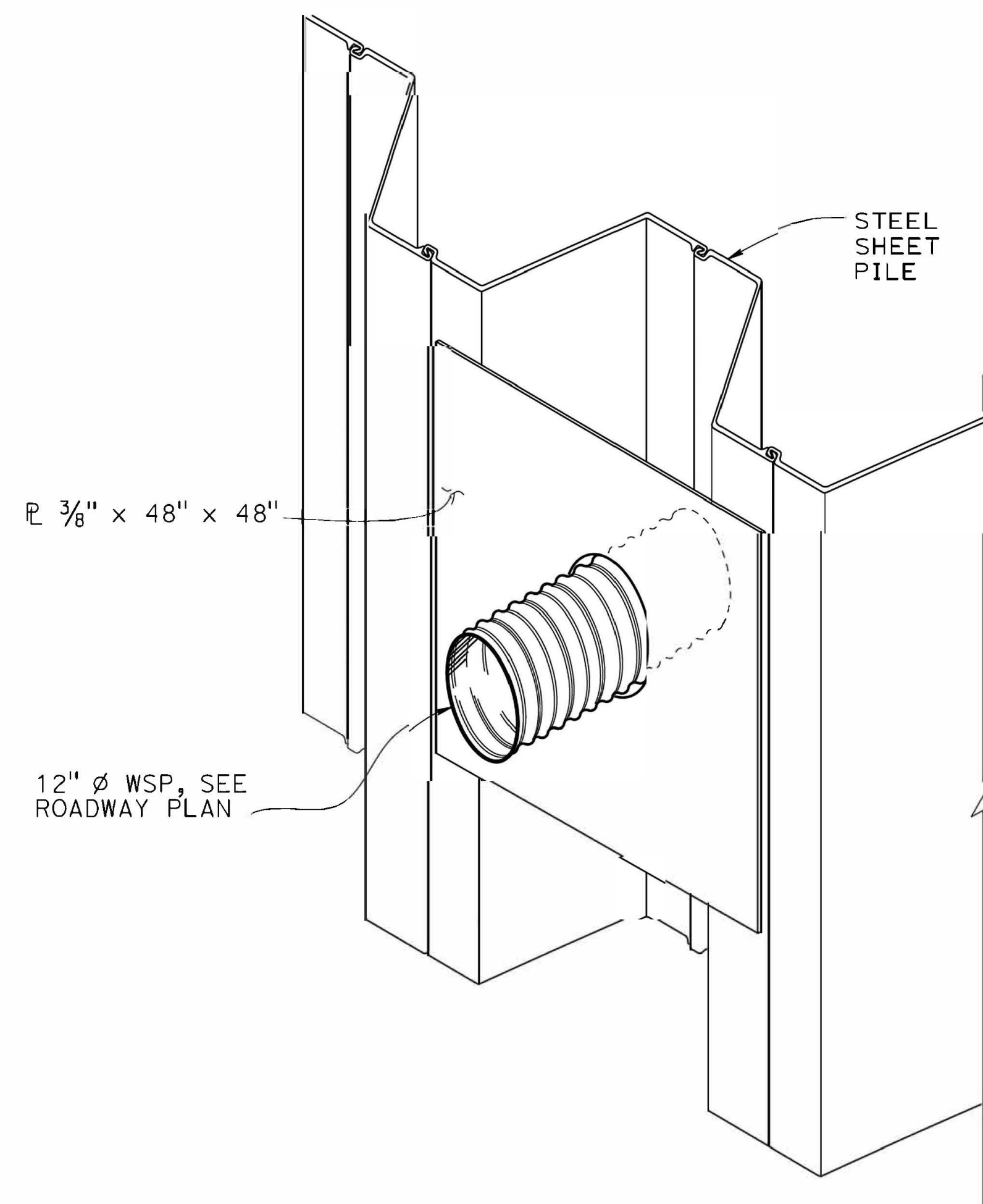
$\frac{1}{8}" = 1'-0"$



PLAN

$\frac{1}{8}" = 1'-0"$

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PICTORIAL VIEW OF TYPICAL 12" PIPE OPENING
NO SCALE

NOTES:

Stiffener Plate to be welded to the sheet piles prior to pipe installation

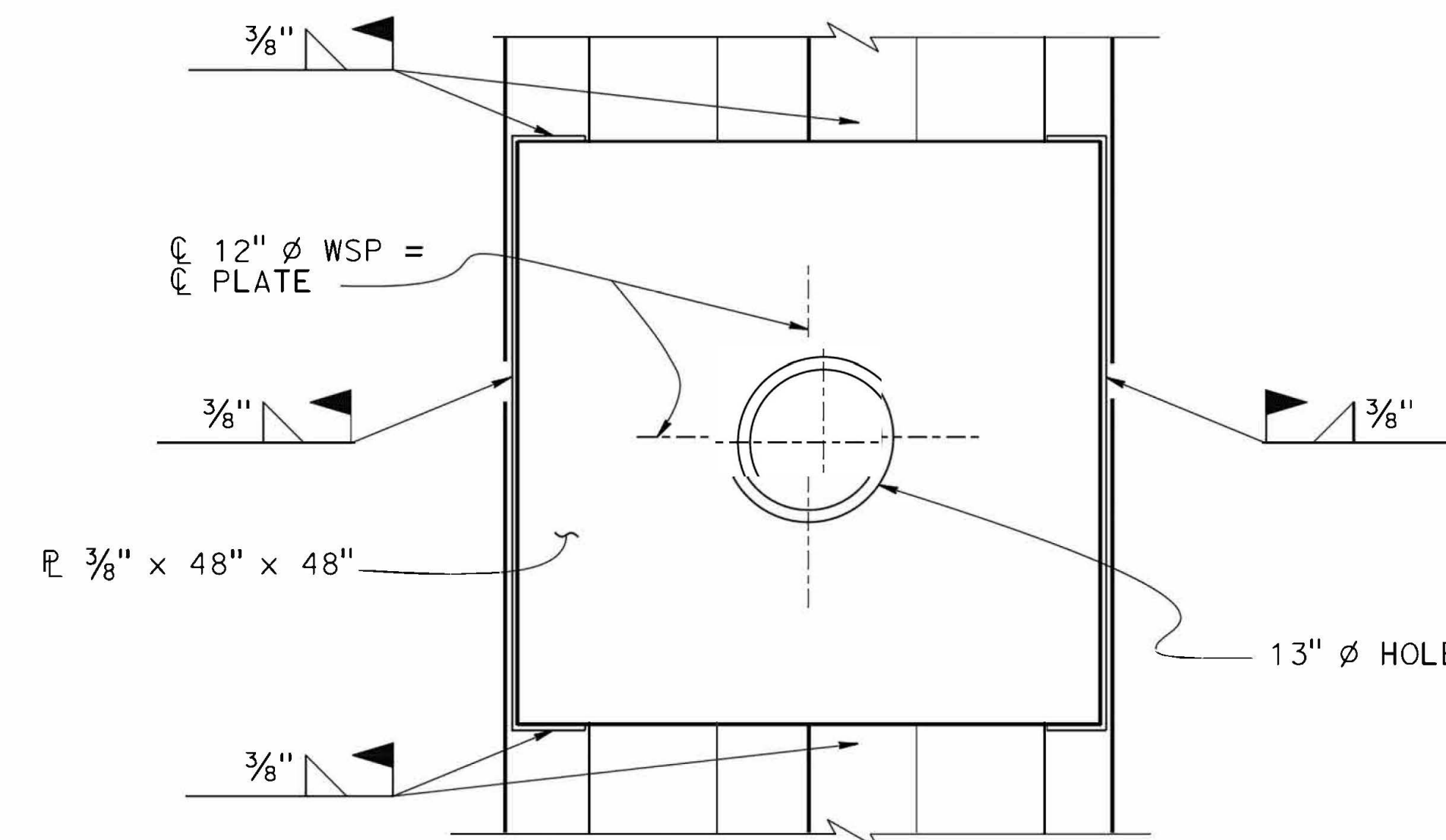
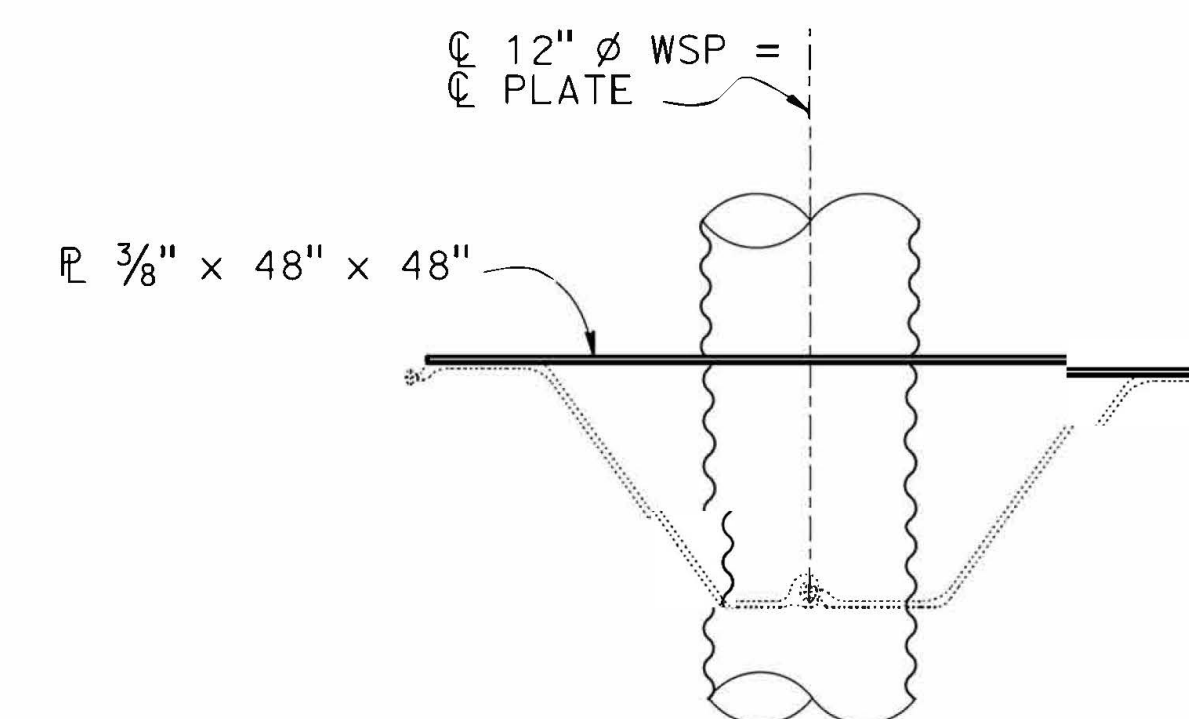


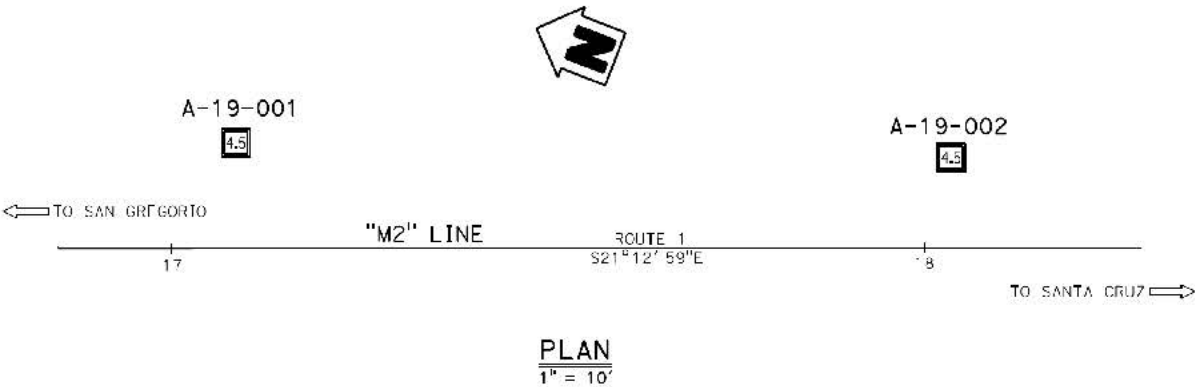
PLATE DETAILS
1" = 1'-0"



PART PLAN
1" = 1'-0"

BENCH MARK

PT-181866 Elev 95.75
N 1871098.76
E 6035384.21



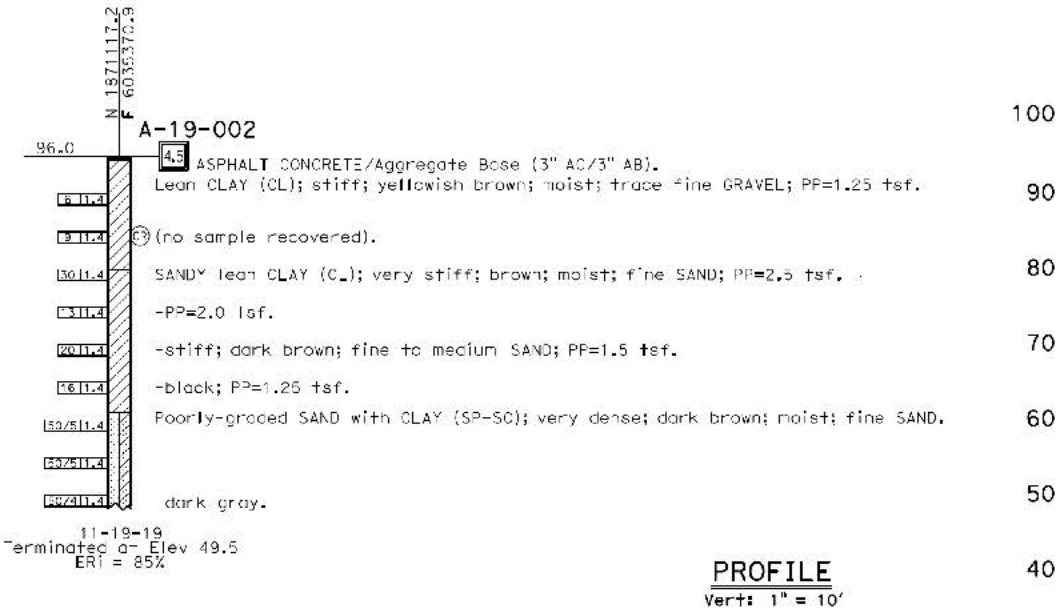
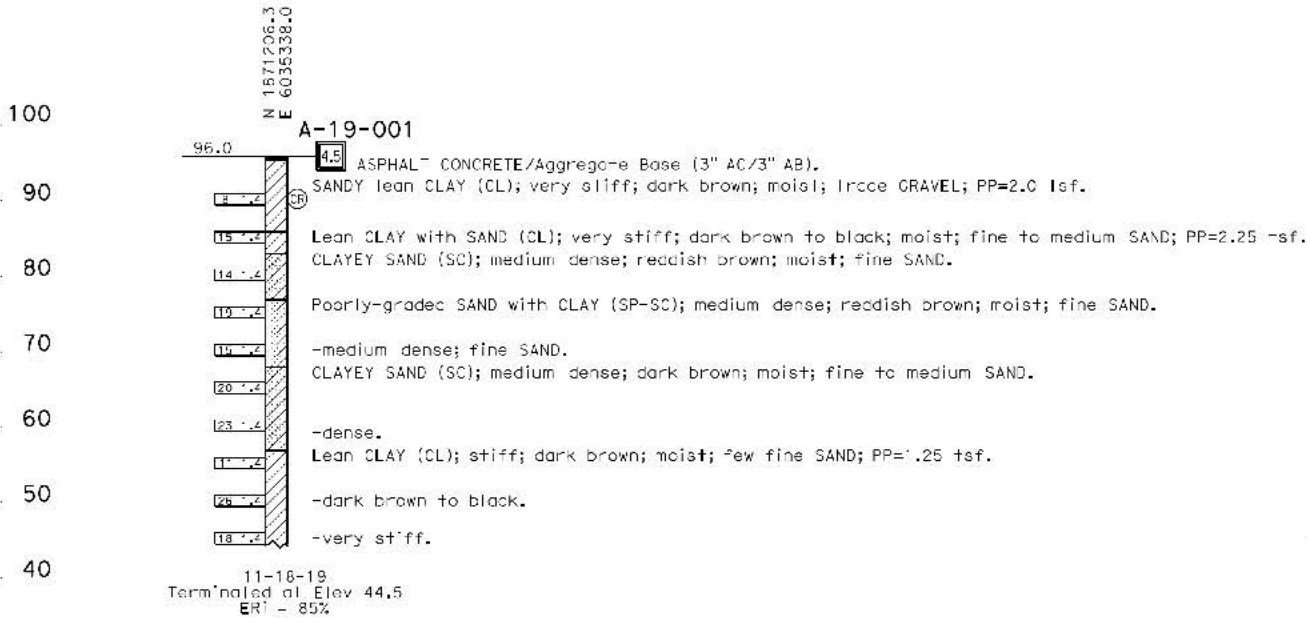
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010 Edition).

See 2018 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BOREHOLE LOCATION TABLE

HOLE ID	"M2" LINE		
	Station	Offset (Ft)	R+/L+
A-19-001	17+08.50	14.0	L+
A-19-002	18+03.51	12.0	L+

NOTE:
Groundwater was not encountered during field investigation.



PROFILE
Vert: 1" = 10'