

Sample Plan Set

Soil Nail Wall

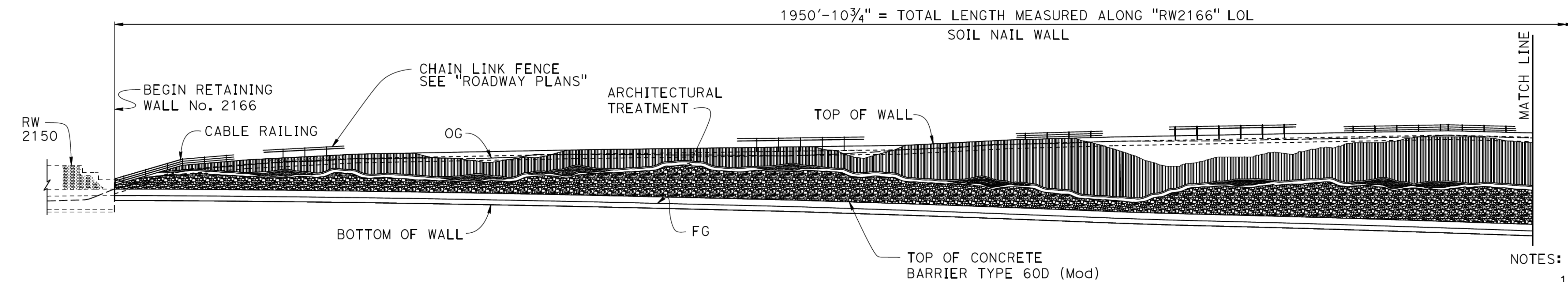
Links

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>



NOTES:

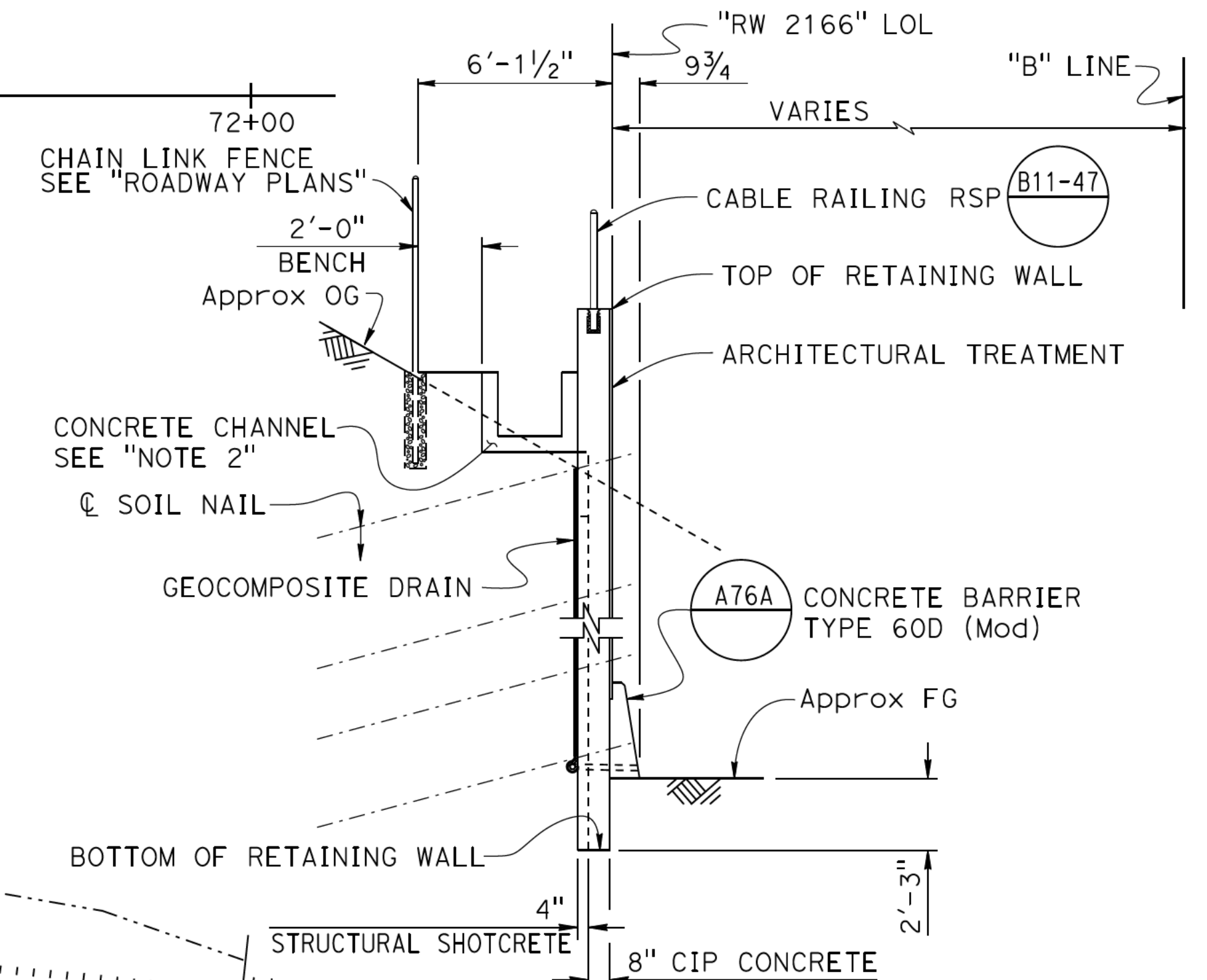
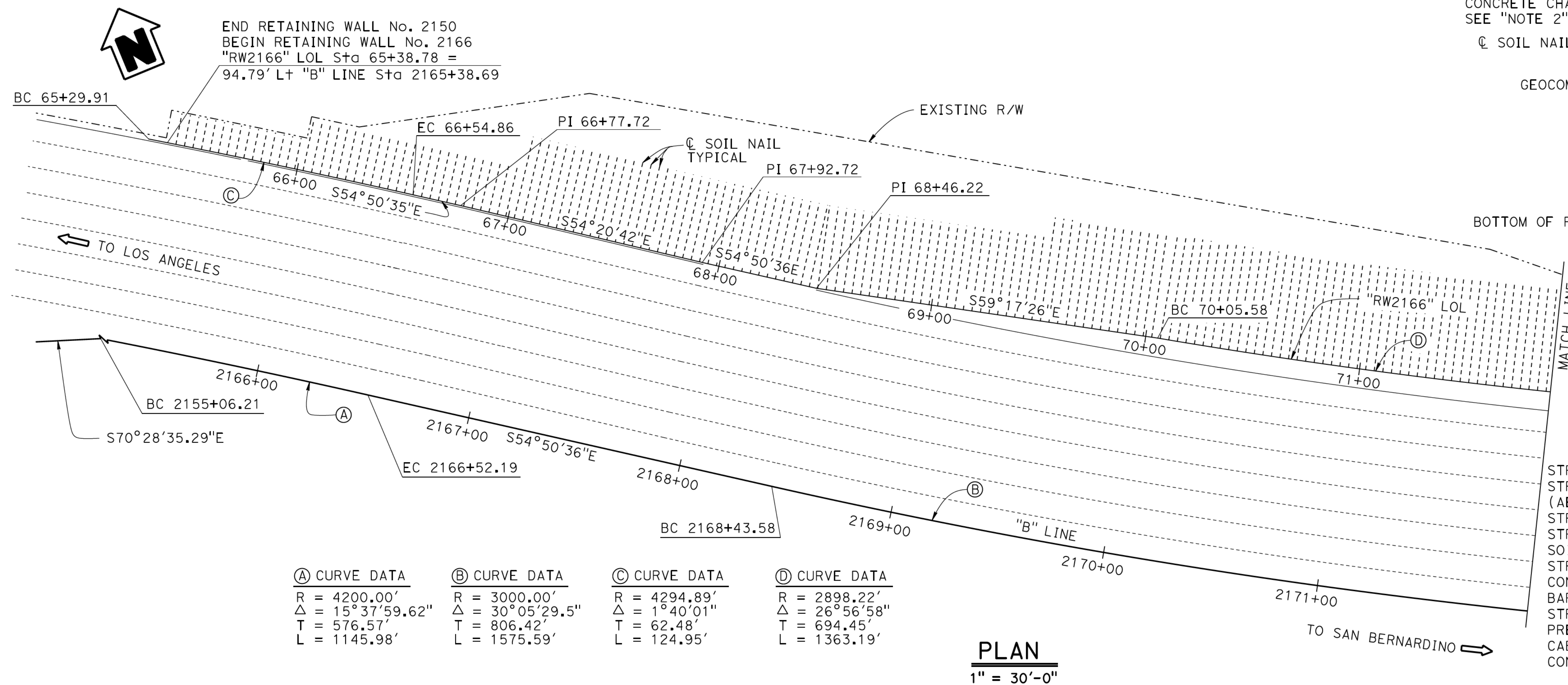
1. For additional details see "GENERAL PLAN NO. 2" and "GENERAL PLAN NO. 3" sheets.
2. For Concrete Channel see "ROADWAY PLANS".

DATUM Elev = 920'

66+00 67+00 68+00 69+00 70+00 71+00 72+00

DEVELOPED ELEVATION

1" = 30'-0"

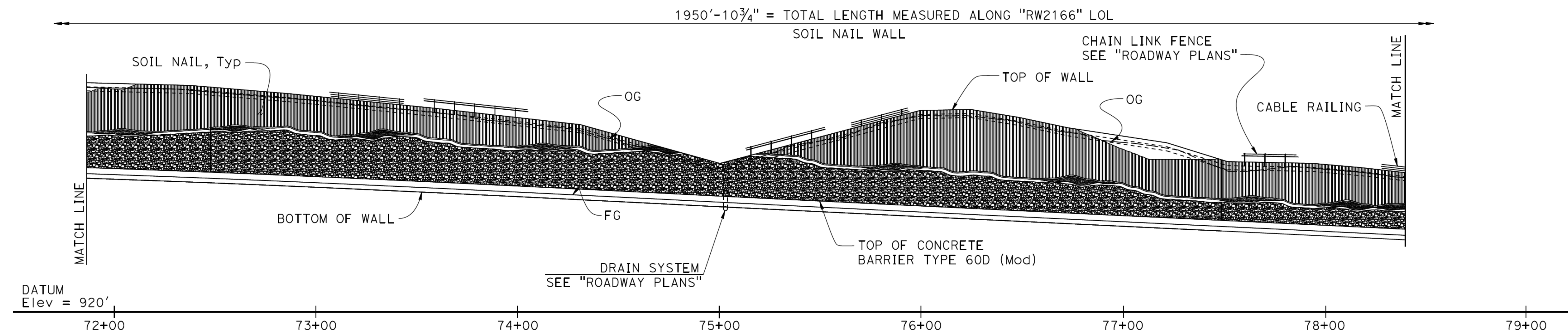


TYPICAL SECTION

1/4" = 1'-0"

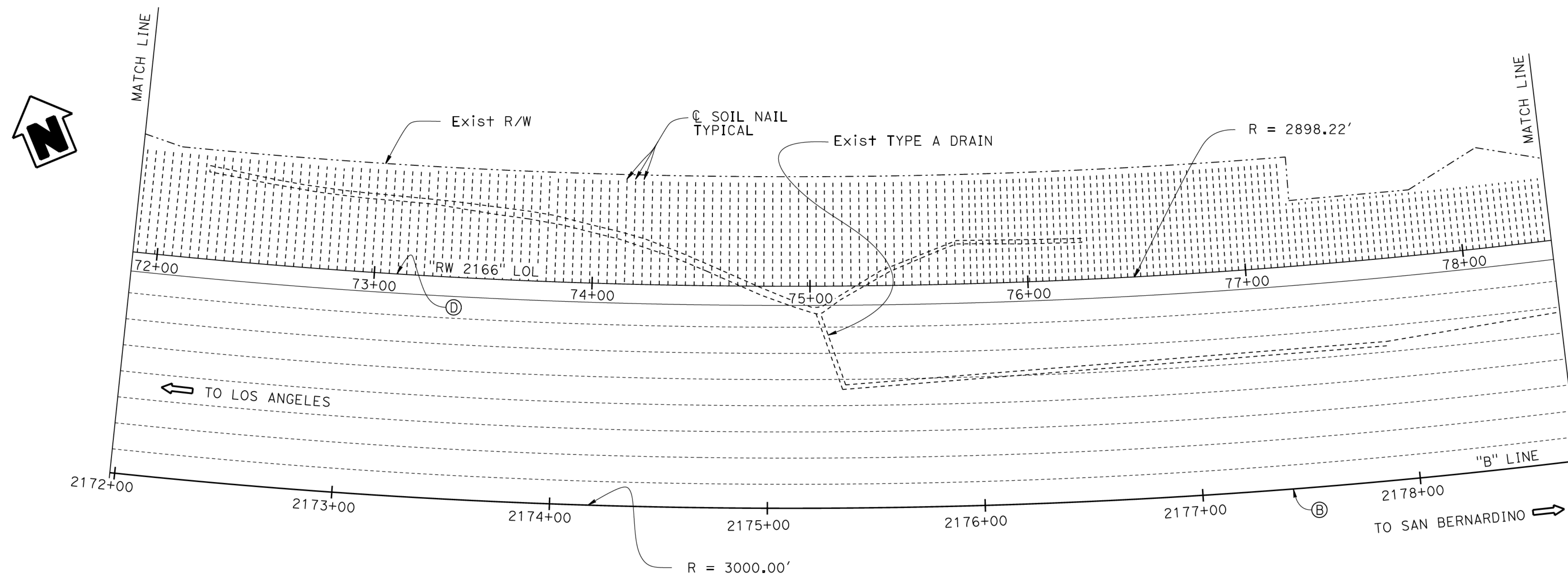
QUANTITIES

STRUCTURE EXCAVATION (SOIL NAIL WALL)	3,475	CY
STRUCTURE EXCAVATION (TYPE Y-1)	71	CY
(AERIALY DEPOSITED LEAD)		
STRUCTURE BACKFILL (SLURRY CEMENT)	36	CY
STRUCTURE BACKFILL (SOIL NAIL WALL)	163	CY
SOIL NAIL	147,670	LF
STRUCTURAL CONCRETE, RETAINING WALL	1,554	CY
CONCRETE SURFACE TEXTURE	49,295	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	283,818	LB
STRUCTURAL SHOTCRETE	615	CY
PREPARE AND STAIN CONCRETE	47,018	SQFT
CABLE RAILING	1,951	LF
CONCRETE BARRIER (TYPE 60D)	1,951	LF



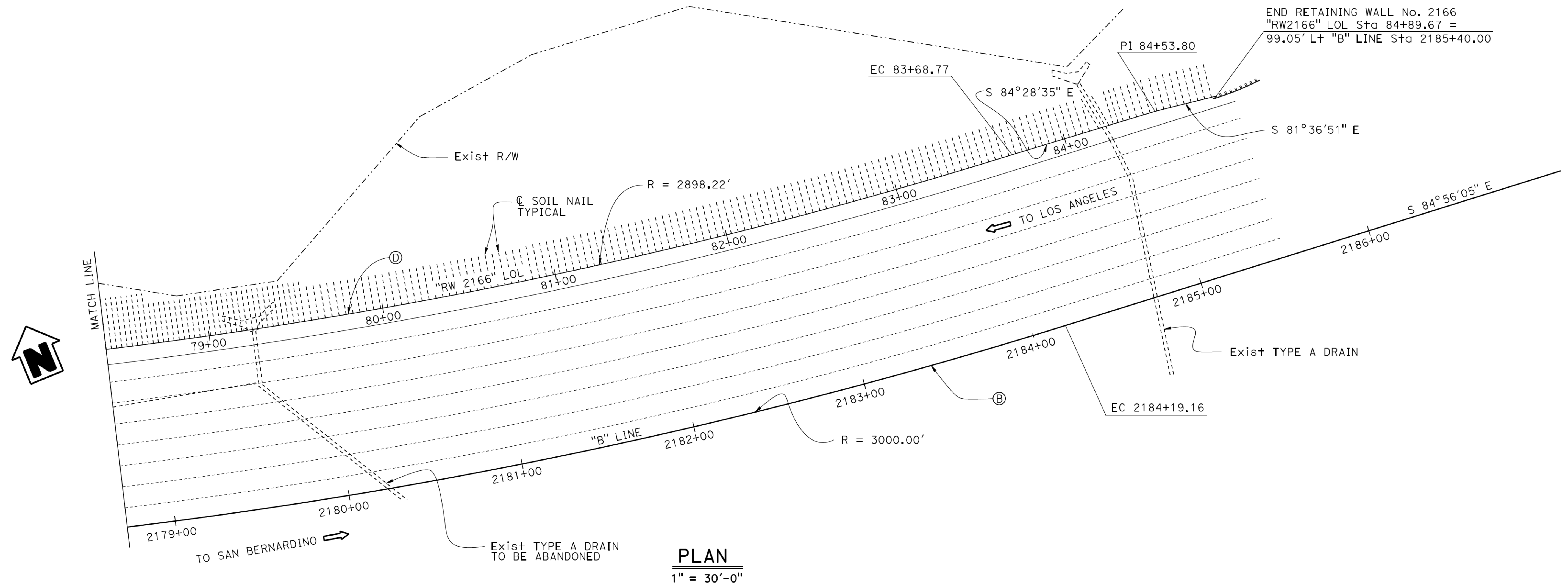
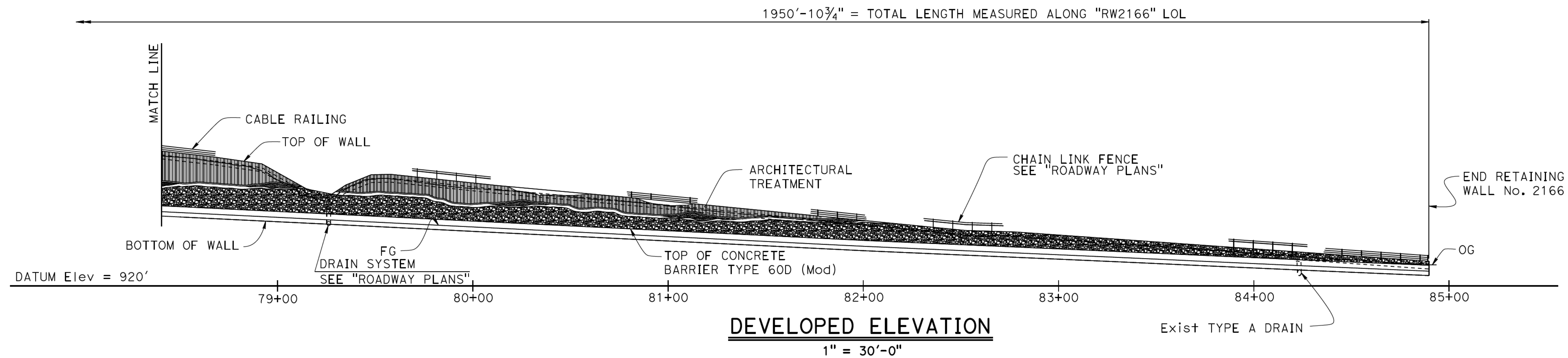
DEVELOPED ELEVATION

1" = 30'-0"



PLAN

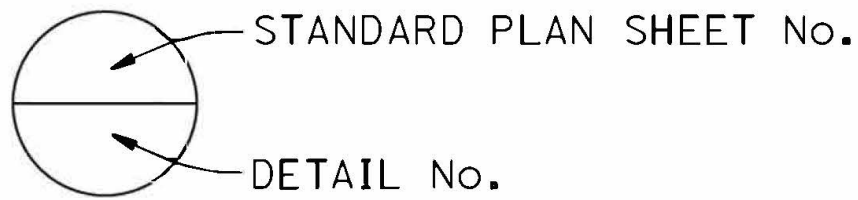
1" = 30'-0"



INDEX TO PLANS

SHEET NO.	TITLE	SHEET NO.	TITLE
1.	GENERAL PLAN NO. 1	33.	DRAINAGE DETAILS NO. 2
2.	GENERAL PLAN NO. 2	34.	ARCHITECTURAL DETAILS NO. 1
3.	GENERAL PLAN NO. 3	35.	ARCHITECTURAL DETAILS NO. 2
4.	INDEX TO PLANS	36.	ARCHITECTURAL DETAILS NO. 3
5.	FOUNDATION PLAN NO. 1	37.	ARCHITECTURAL DETAILS NO. 4
6.	FOUNDATION PLAN NO. 2	38.	ARCHITECTURAL DETAILS NO. 5
7.	FOUNDATION PLAN NO. 3	39.	ARCHITECTURAL DETAILS NO. 6
8.	FOUNDATION PLAN NO. 4	40.	ARCHITECTURAL DETAILS NO. 7
9.	STRUCTURE PLAN NO. 1	41.	ARCHITECTURAL DETAILS NO. 8
10.	STRUCTURE PLAN NO. 2	42.	ARCHITECTURAL DETAILS NO. 9
11.	STRUCTURE PLAN NO. 3	43.	ARCHITECTURAL DETAILS NO. 10
12.	STRUCTURE PLAN NO. 4	44.	LOG OF TEST BORINGS 1 OF 1
13.	STRUCTURE PLAN NO. 5		
14.	STRUCTURE PLAN NO. 6		
15.	STRUCTURE PLAN NO. 7		
16.	STRUCTURE PLAN NO. 8		
17.	STRUCTURE PLAN NO. 9		
18.	SOIL NAIL DETAILS NO. 1	A10A	ABBREVIATIONS (SHEET 1 OF 2)
19.	SOIL NAIL DETAILS NO. 2	RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
20.	SOIL NAIL DETAILS NO. 3	A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
21.	SOIL NAIL DETAILS NO. 4	A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
22.	SOIL NAIL DETAILS NO. 5	A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
23.	SOIL NAIL DETAILS NO. 6	A10F	LEGEND-SOIL (SHEET 1 OF 2)
24.	SOIL NAIL DETAILS NO. 7	A10G	LEGEND-SOIL (SHEET 2 OF 2)
25.	SOIL NAIL DETAILS NO. 8	A10H	LEGEND - ROCK
26.	SOIL NAIL DETAILS NO. 9	A76A	CONCRETE BARRIER TYPE 60
27.	SOIL NAIL DETAILS NO. 10	A85	CHAIN LINK FENCE
28.	SOIL NAIL DETAILS NO. 11	RSP B11-47	CABLE RAILING
29.	SOIL NAIL DETAILS NO. 12	B15-6	SOUND WALL MASONRY BLOCK ON TYPE 736S/SV BARRIER DETAILS (1)
30.	SOIL NAIL DETAILS NO. 13		
31.	SOIL NAIL DETAILS NO. 14		
32.	DRAINAGE DETAILS NO. 1		

STANDARD PLANS DATED 2010



GENERAL NOTES

DESIGN:

Bridge Design Specifications - April 2000 (1996 AASHTO with Revisions by CALTRANS)
Federal Highway Administration Publication Geotechnical Engineering Circular No. 7
Soil Nail Walls, Publication No. FHWA-IF-03-017

LIVE LOADING:

No Live Loading

REINFORCED CONCRETE:

fy = 60 ksi (Yield Strength of Reinforcement)
f'c = 4.0 ksi (Compressive Strength at 28 days)

STRUCTURAL SHOTCRETE:

f'c = 3.6 ksi
fy = 65 ksi (ASTM A185 plain welded wire reinforcement)
fy = 60 ksi (ASTM A706 waler bar reinforcement)

STRUCTURAL PLATE:

ASTM Designation: A36/A 36M, fy = 36 ksi

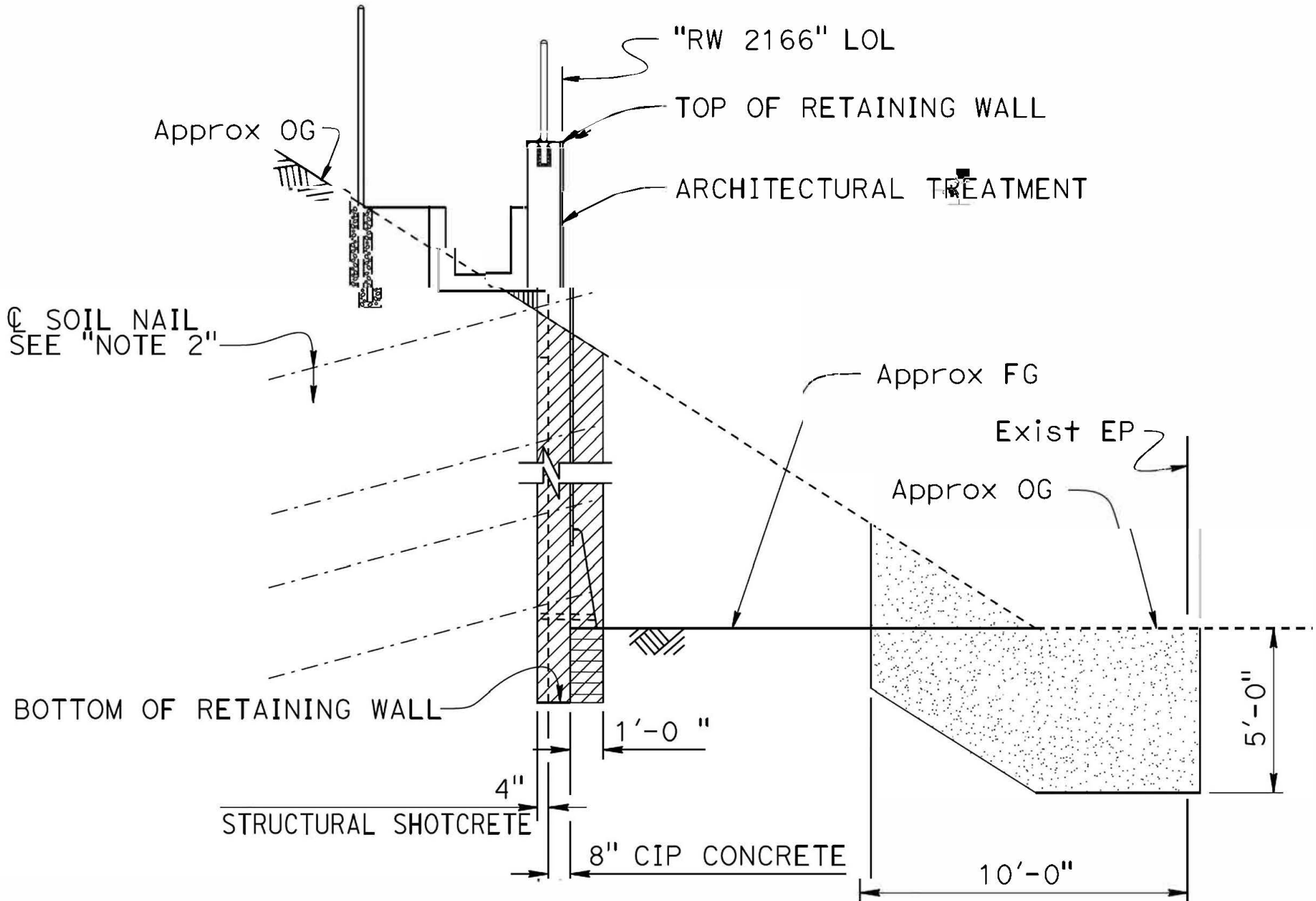
CONCRETE ANCHORS ON BEARING PLATES:

ASTM Designation: A307, fy = 60 ksi

SOIL NAILS:

ASTM Designation: A615/A615M, fy = 75 ksi

SOIL PARAMETERS - REFER TO ASSOCIATED GEOTECHNICAL REPORT



Legend:

- Denotes Structure Excavation (Soil Nail Wall) unless otherwise noted below
- Denotes Structure Backfill (Soil Nail Wall)
- Denotes Structure Backfill (Slurry Cement)

Note:

Any Structure Excavation (Soil Nail Wall) indicated by shall be considered Structure Excavation (Type Y-1) (Aerially Deposited Lead) when it is located within the zone designated by

TYPICAL SECTION PAY LIMITS FOR
STRUCTURE EXCAVATION AND BACKFILL

NO SCALE

TABLE - COMPONENTS

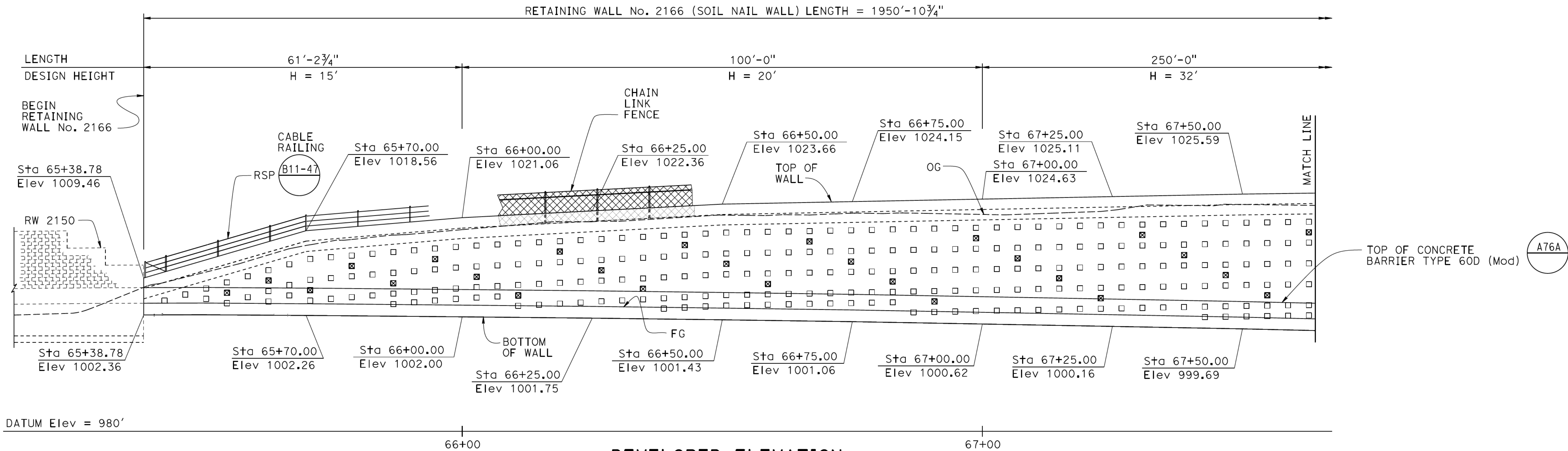
		Punching Shear		Max Nail Spacing	Pullout		Shotcrete (Initial Facing)				C-I-P Concrete (Final Facing)			Bearing Plate
		(kips)	(kips)	(ft) x (ft)	(lb/ft)	(ft)	(in)		Water Bars		(in)	Bar Reinforcement		
Wall Station	Nail Size	Static	Seismic	Vertical x Horizontal	Resistance	Minimum Length	†		Wire Mesh (wwr)	Horizontal	Vertical	†	Horizontal	
65+38.78 to 66+00.00	#8	30	38	4 x 4	2950	15	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
66+00.00 to 67+00.00	#8	30	38	4 x 4	2950	25	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
67+00.00 to 69+50.00	#9	30	38	4 x 4	3620	40	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
69+50.00 to 71+00.00	#10	30	38	4 x 4	4200	50	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
71+00.00 to 73+00.00	#10	30	38	4 x 4	4200	50	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
73+00.00 to 75+70.78	#10	30	38	4 x 4	4200	50	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
75+70.78 to 77+20.00	#10	30	38	4 x 3	4200	50	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
77+20.00 to 78+65.00	#9	30	38	3 x 3	4200	30	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
78+65.00 to 79+54.78	#9	30	38	3 x 3	4200	25	4	4x4-w4.0xw4.0	#4	#4	8	#8@18	#7@18	12 x 12
79+54.78 to 84+89.67	#9	30	38	4 x 4 & VARIES ***	3200	20 & VARIES **	4	4x4-w4.0xw4.0	#4x #4x	#4x #4x	8	#8@18	#7@18	12 x 12

Note:

- Pullout resistance of the Soil Nail must be tested before soil nails can be accepted through verification and proof test in accordance with the test procedures of the Special Provisions.
- Inclination angle of nails is 15 degrees, measured from horizontal.

- * For Waler Bars location, see "SOIL NAIL DETAILS NO. 14" sheet.
- ** For additional length, see "STRUCTURE PLAN NO. 9" sheet.
- *** For additional spacing, see "SOIL NAIL DETAILS NO. 5" sheet.

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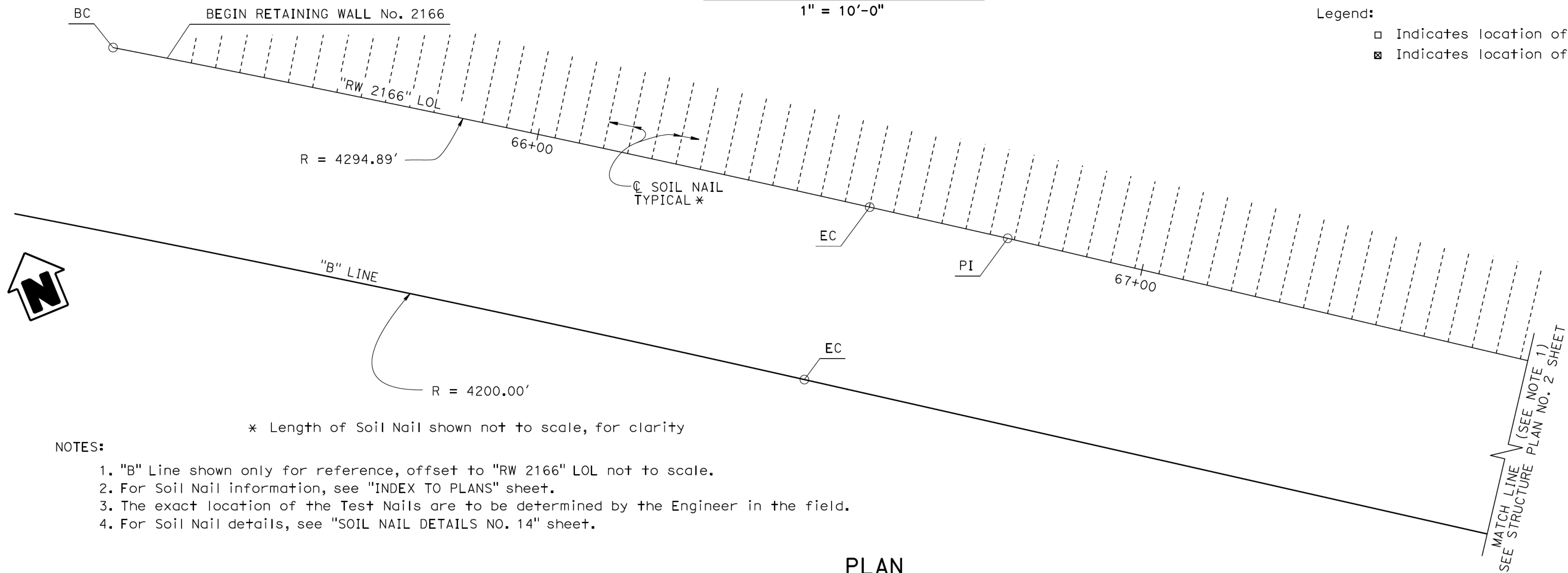


DEVELOPED ELEVATION

1" = 10'-0"

Legend:

- Indicates location of Soil Nail Assembly
- ⊗ Indicates location of Proof Test Nail, Tot 27 this page



NOTES:

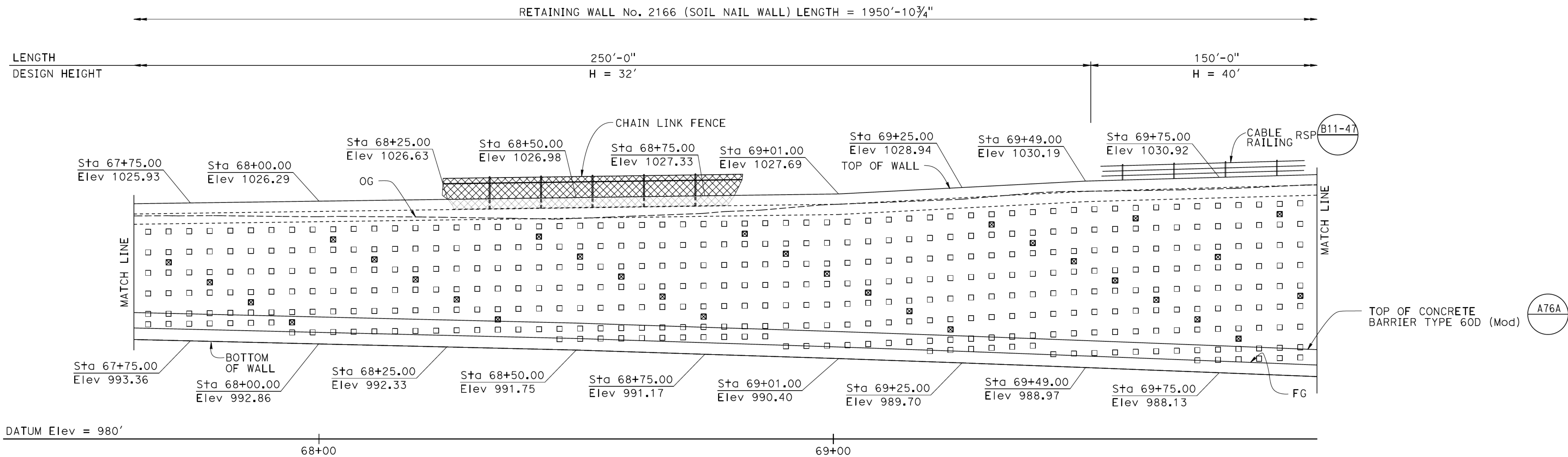
1. "B" Line shown only for reference, offset to "RW 2166" LOL not to scale.
2. For Soil Nail information, see "INDEX TO PLANS" sheet.
3. The exact location of the Test Nails are to be determined by the Engineer in the field.
4. For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.

* Length of Soil Nail shown not to scale, for clarity

PLAN

1" = 10'-0"

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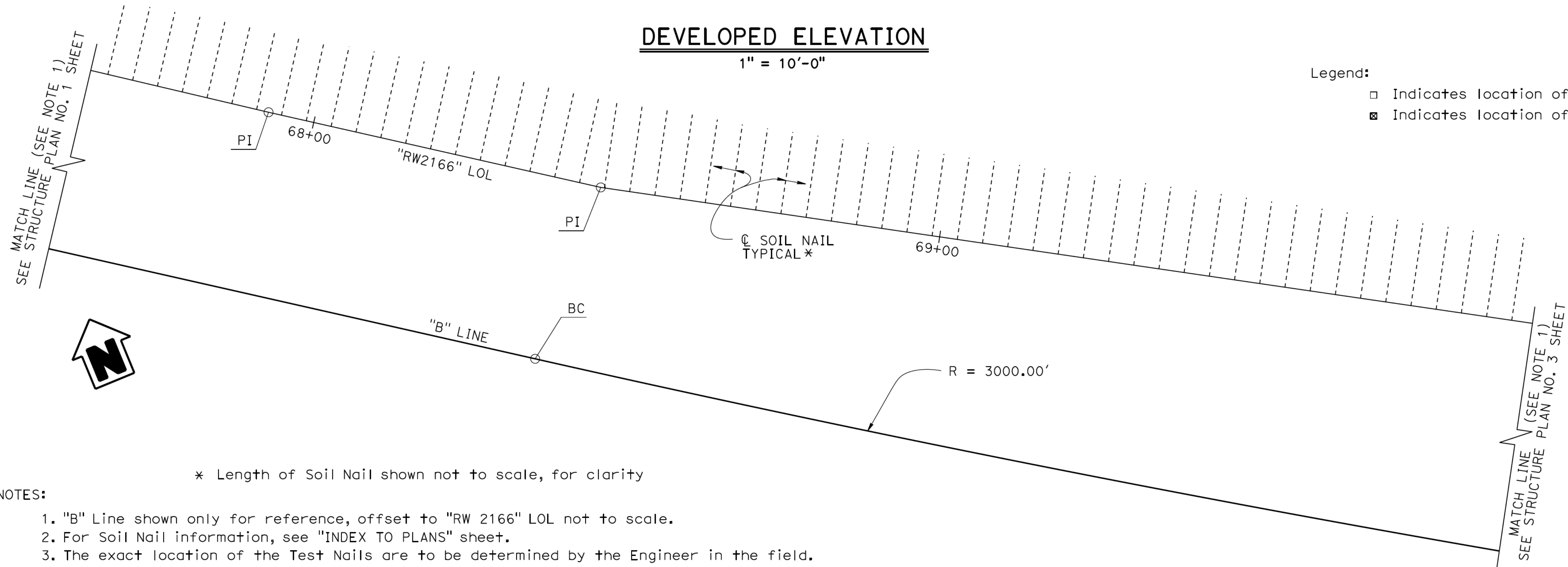


DEVELOPED ELEVATION

1" = 10'-0"

Legend:

- Indicates location of Soil Nail Assembly
- Indicates location of Proof Test Nail, Tot 31 this page



NOTES:

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4. For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.

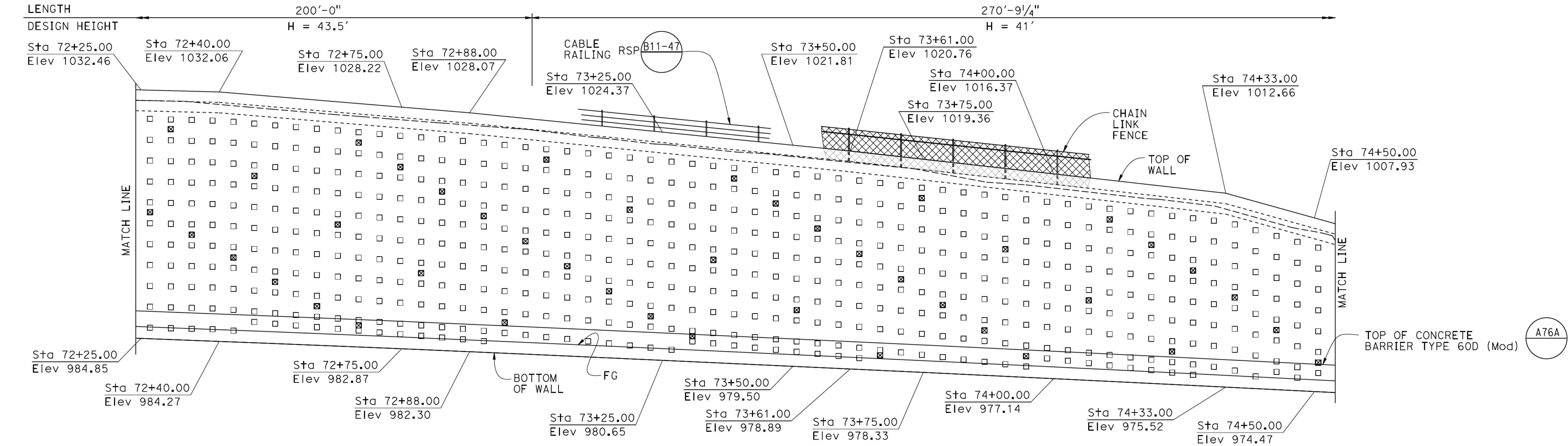
PLAN

1" = 10'-0"

NOTE:
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RETAINING WALL No. 2166 (SOIL NAIL WALL) LENGTH = 1950'-10 3/4"



DEVELOPED ELEVATION

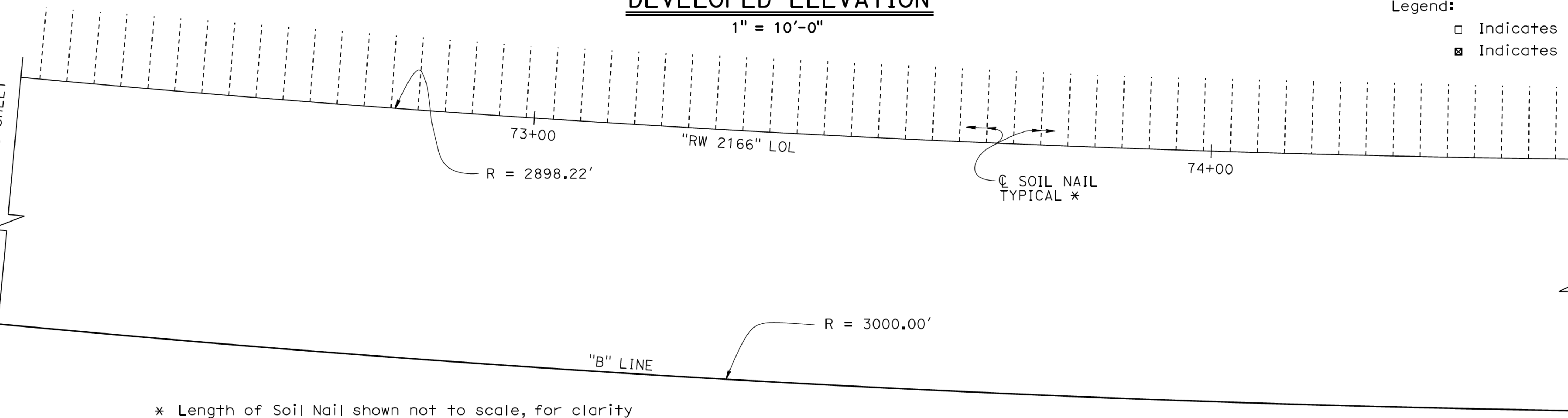
1" = 10'-0"

Legend:

- Indicates location of Soil Nail Assembly
- Indicates location of Proof Test Nail, Tot 43 this page



MATCH LINE (SEE NOTE 1)
SEE STRUCTURE PLAN NO. 3 SHEET



NOTES:

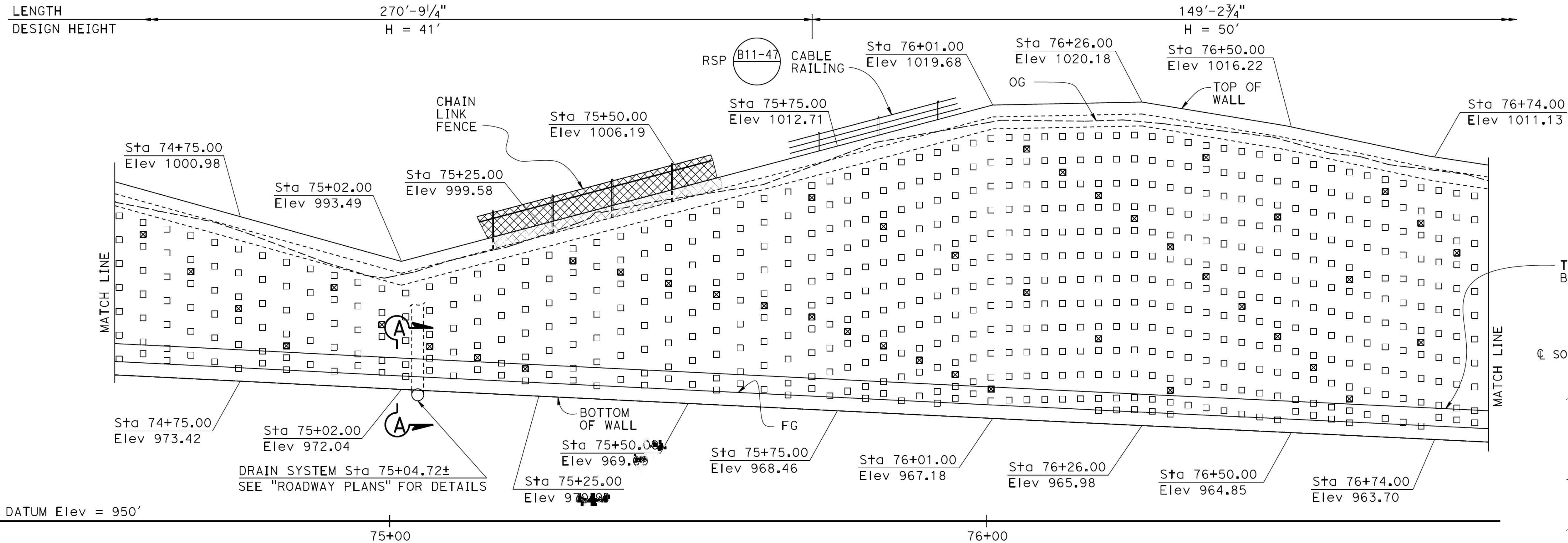
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- For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.

PLAN

1" = 10'-0"

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RETAINING WALL No. 2166 (SOIL NAIL WALL) LENGTH = 1950'-10 3/4"



NOTES:

1. "B" Line shown only for reference, offset to "RW 2166" LOL not to scale.
2. For Soil Nail information, see "INDEX TO PLANS" sheet.
3. The exact location of the Test Nails are to be determined by the Engineer in the field.
4. For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.
5. Adjust nail locations as necessary to clear down drains by 6" minimum.

DEVELOPED ELEVATION

1" = 10'-0"

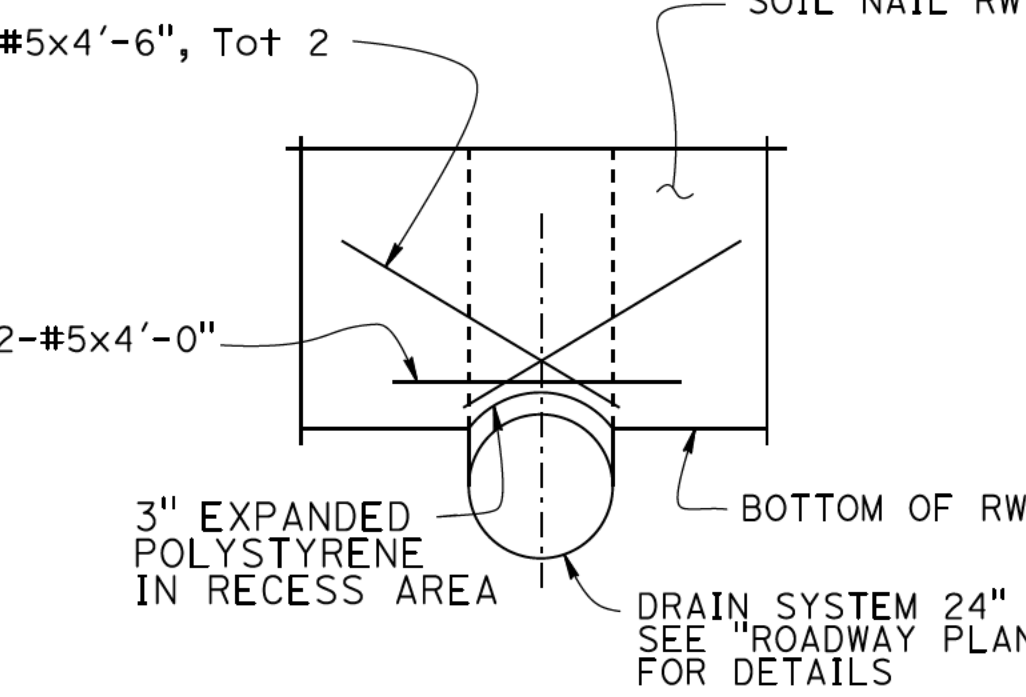
RW RECESS AREA TO ACCOMMODATE DRAIN PIPE 24" CMP

BOTTOM OF RW

DRAIN SYSTEM 24" CMP SEE "ROADWAY PLANS" FOR DETAILS

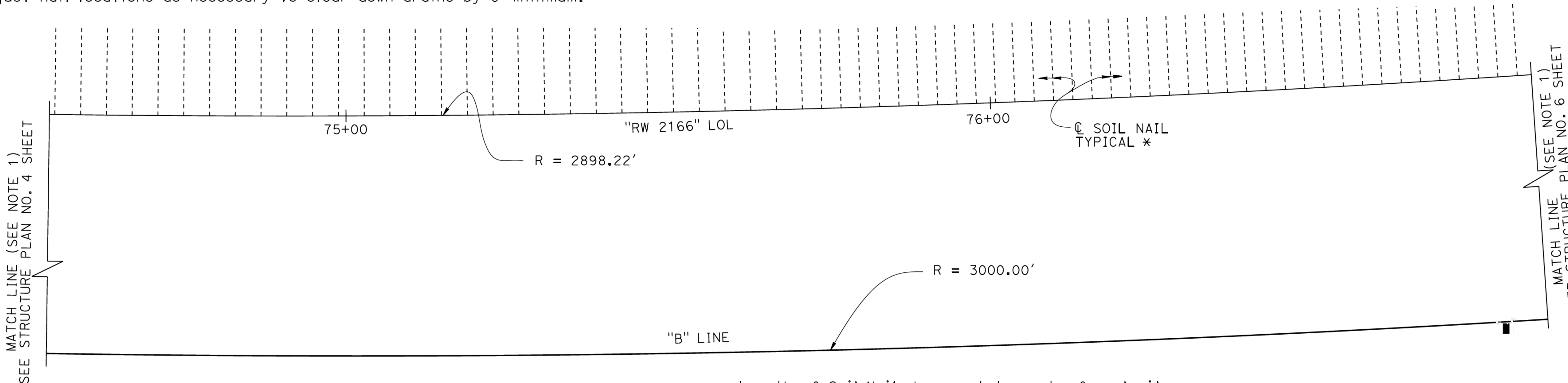
SECTION A-A

3/8" = 1'-0"



PART ELEVATION

3/8" = 1'-0"



Legend:

- Indicates location of Soil Nail Assembly
- ⊠ Indicates location of Proof Test Nail, Tot 43 this page

* Length of Soil Nail shown not to scale, for clarity

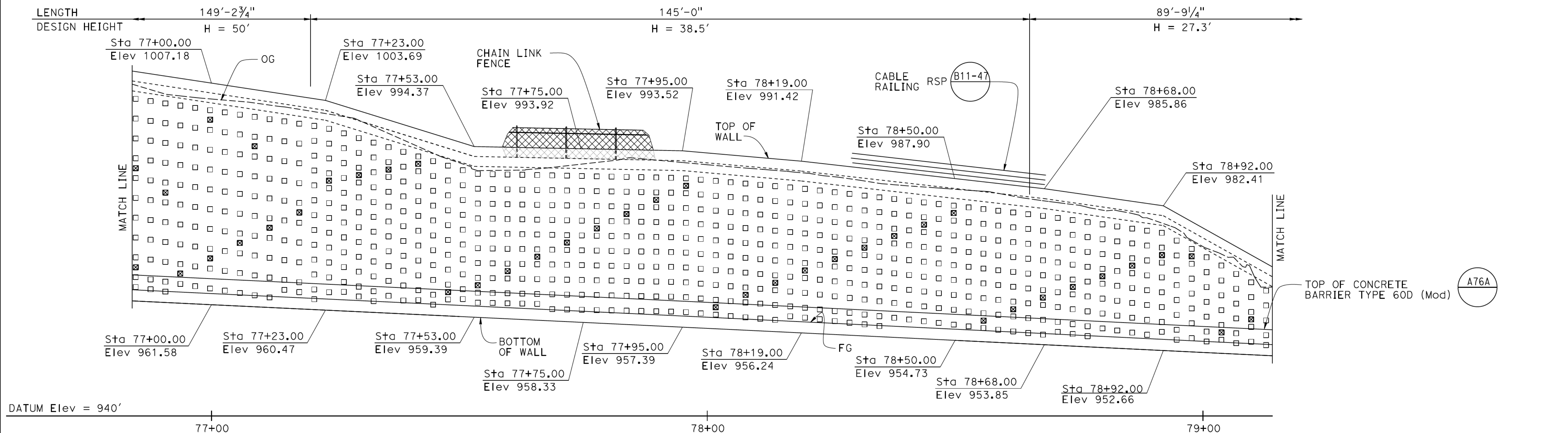
PLAN

1" = 10'-0"

RW RECESS AROUND 24" CMP DRAIN SYSTEM

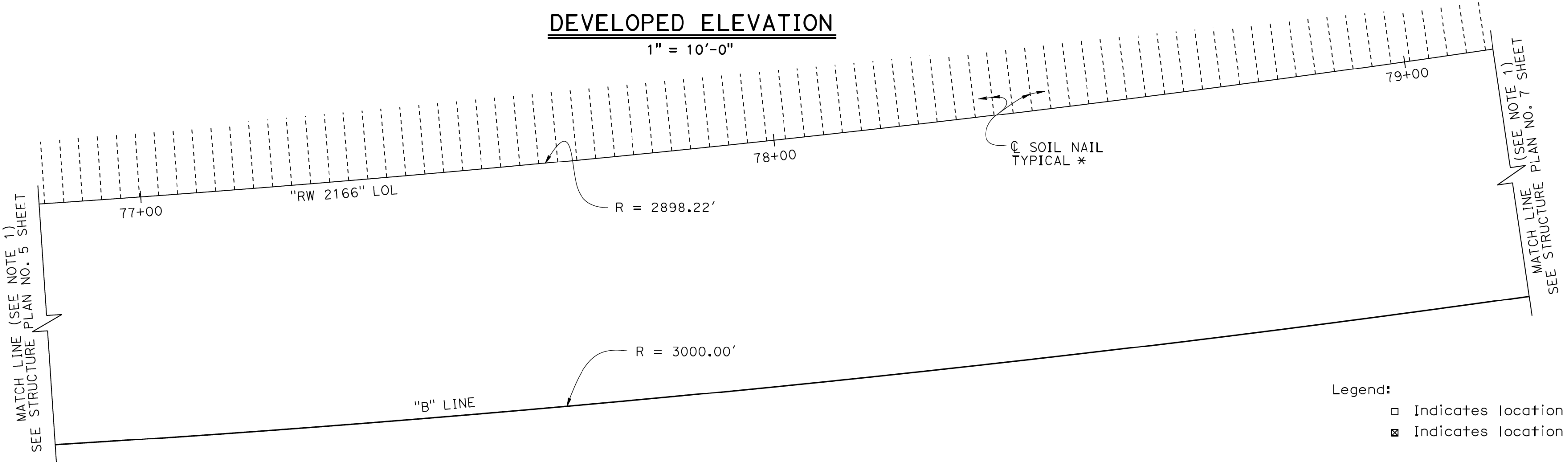
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RETAINING WALL No. 2166 (SOIL NAIL WALL) LENGTH = 1950'-10 3/4"



DEVELOPED ELEVATION

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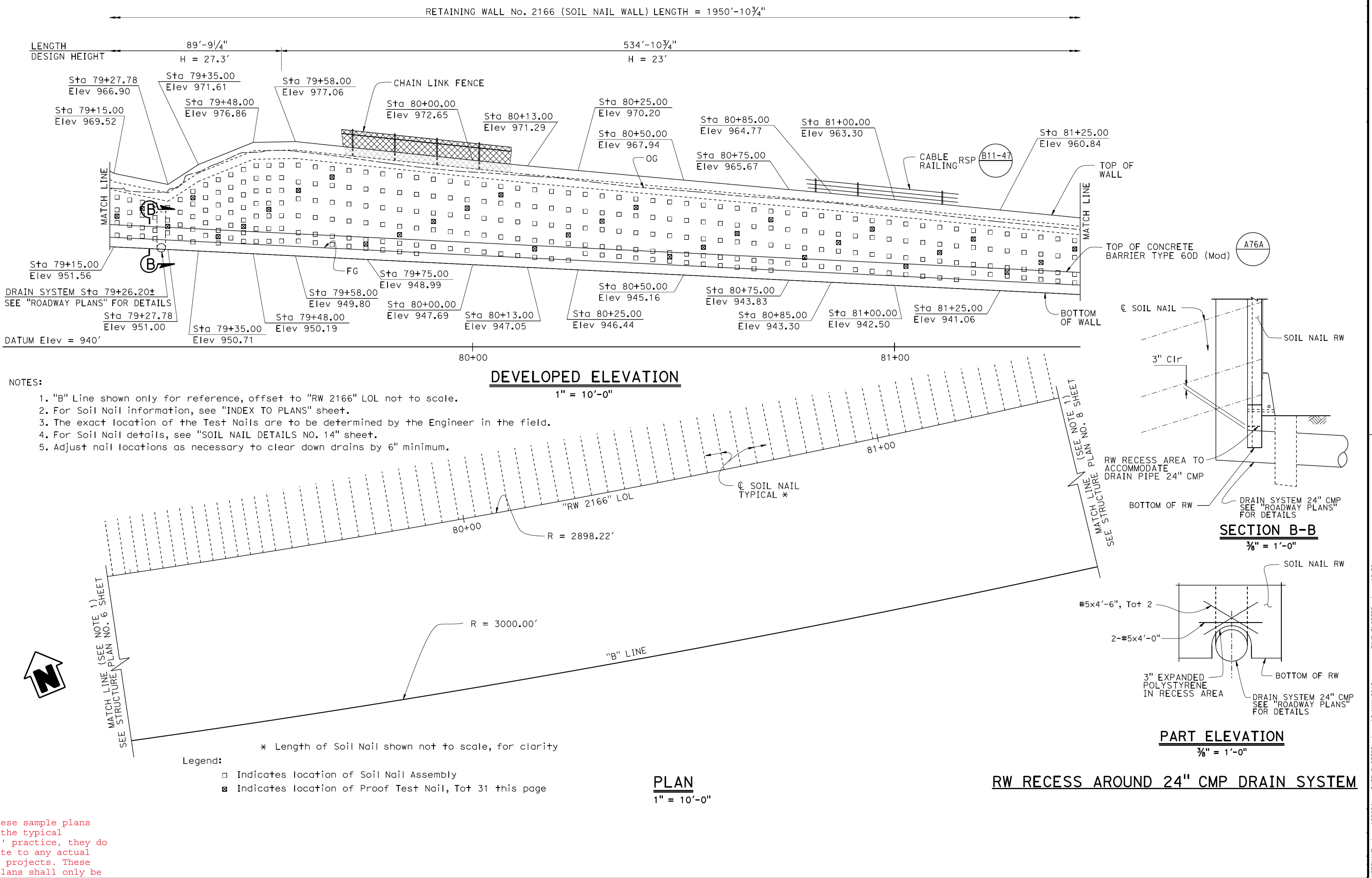


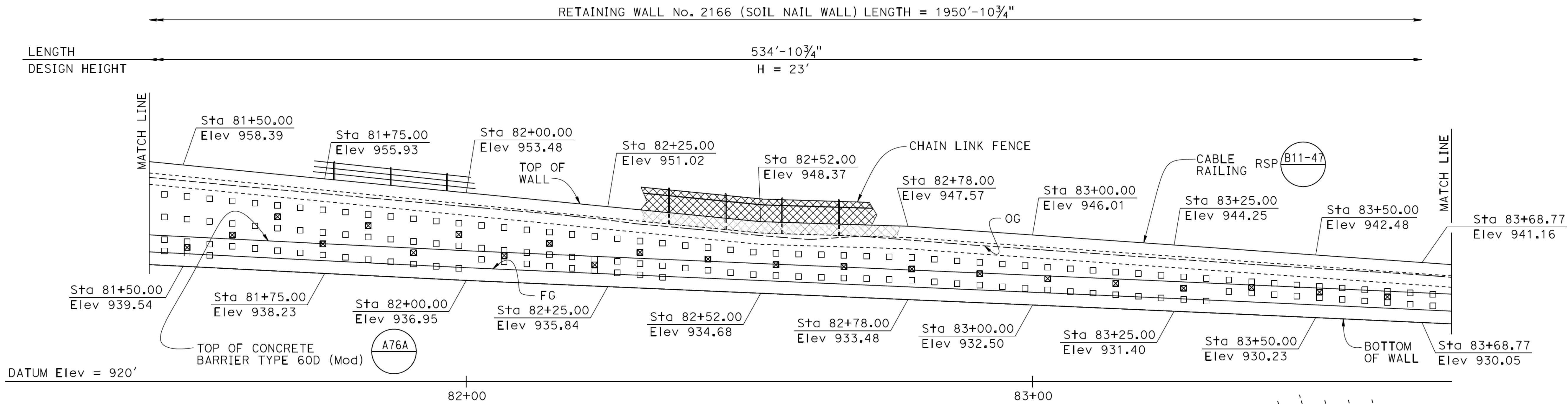
- Legend:
- Indicates location of Soil Nail Assembly
 - Indicates location of Proof Test Nail, Tot 42 this page

- NOTES:
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 - For Soil Nail information, see "INDEX TO PLANS" sheet.
 - The exact location of the Test Nails are to be determined by the Engineer in the field.
 - For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.

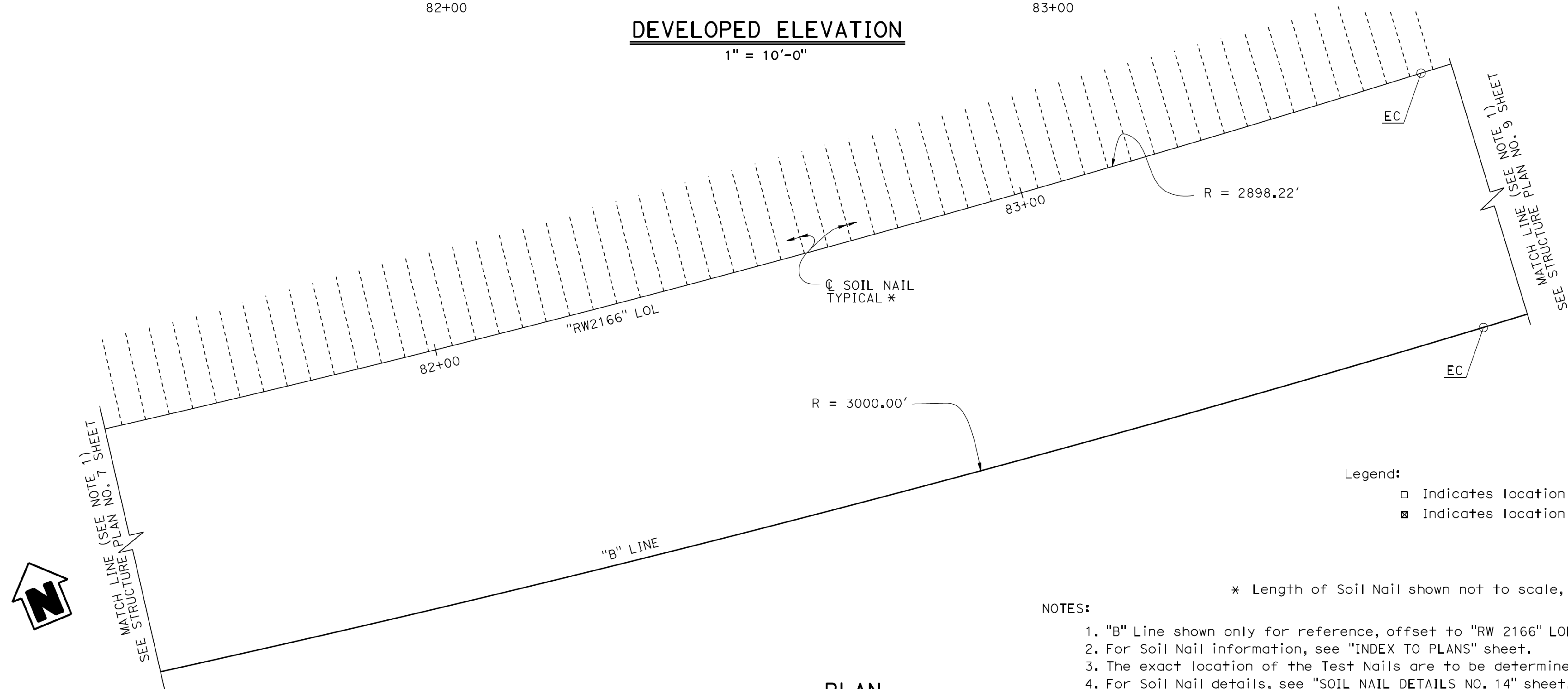
PLAN
1" = 10'

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DEVELOPED ELEVATION
1" = 10'-0"



- Legend:
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 - Indicates location of Proof Test Nail, Tot 22 this page

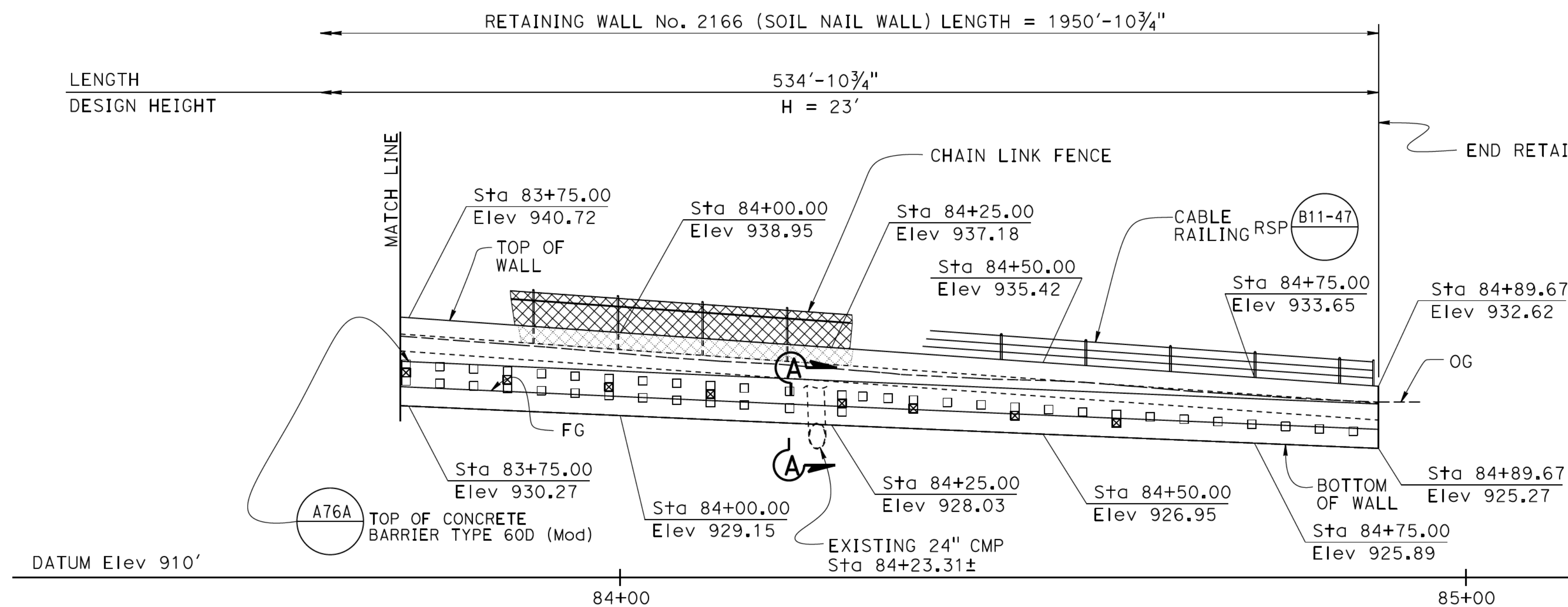
* Length of Soil Nail shown not to scale, for clarity

NOTES:

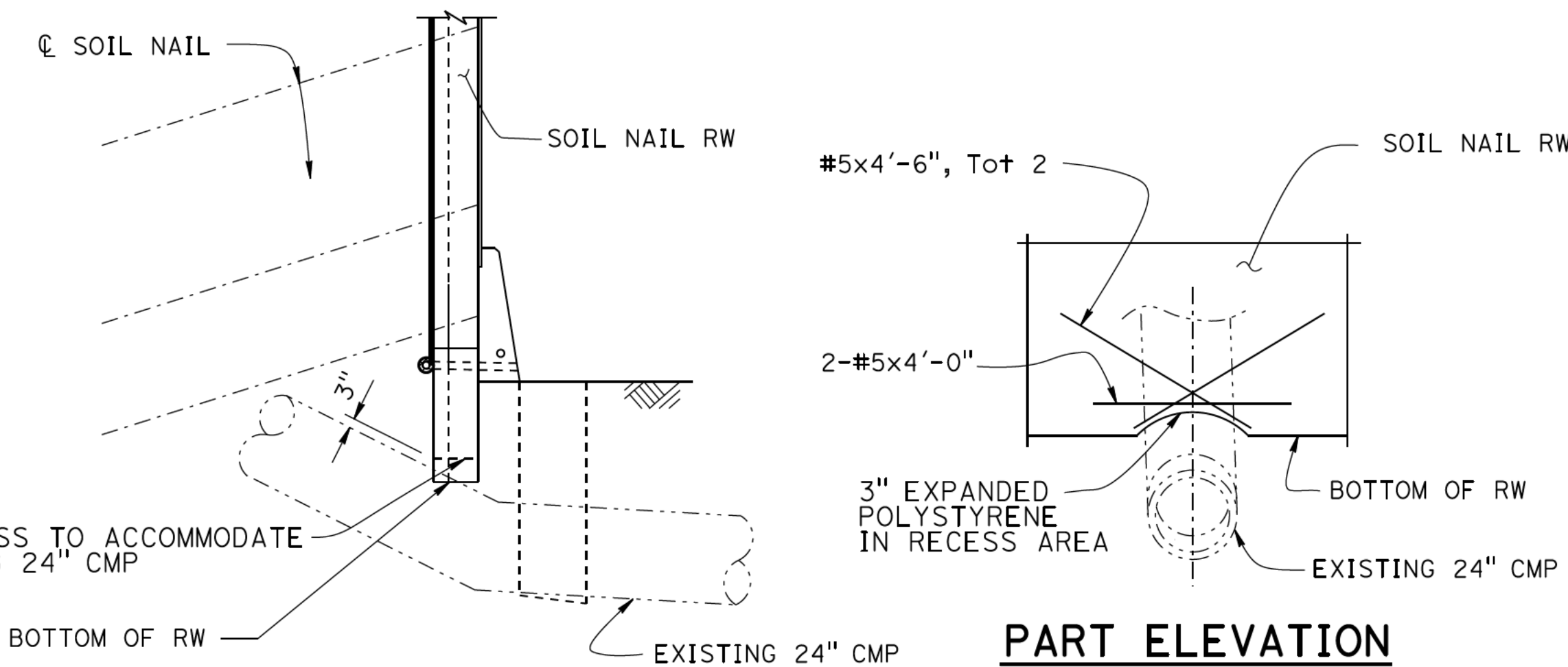
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4. For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.

PLAN
1" = 10'-0"

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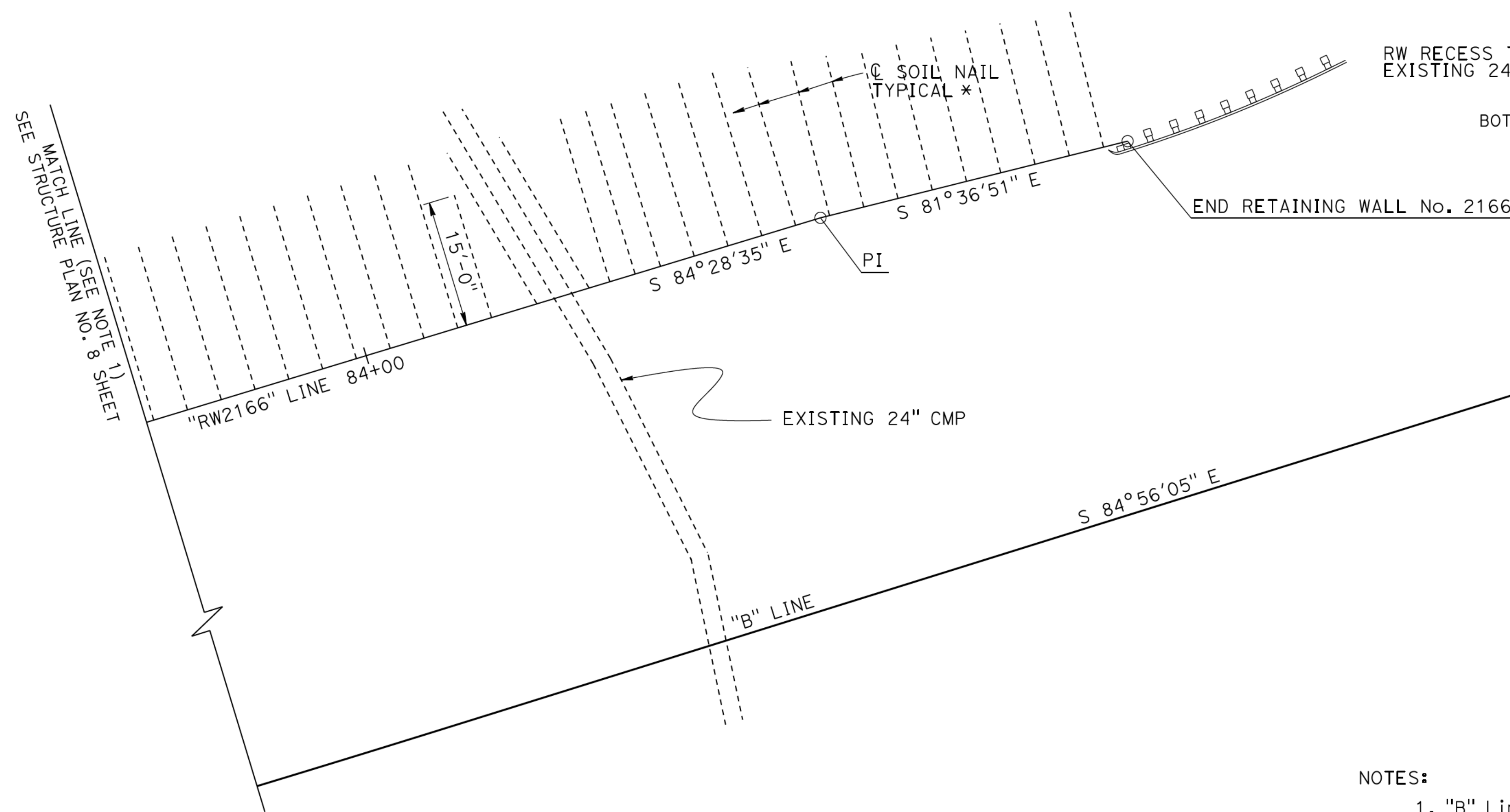
DEVELOPED ELEVATION
1" = 10'-0"



SECTION A-A
3/8" = 1'-0"

PART ELEVATION
3/8" = 1'-0"

RW RECESS AROUND EXISTING 24" CMP DETAIL
1" = 10'-0"



PLAN
1" = 10'-0"

Legend:

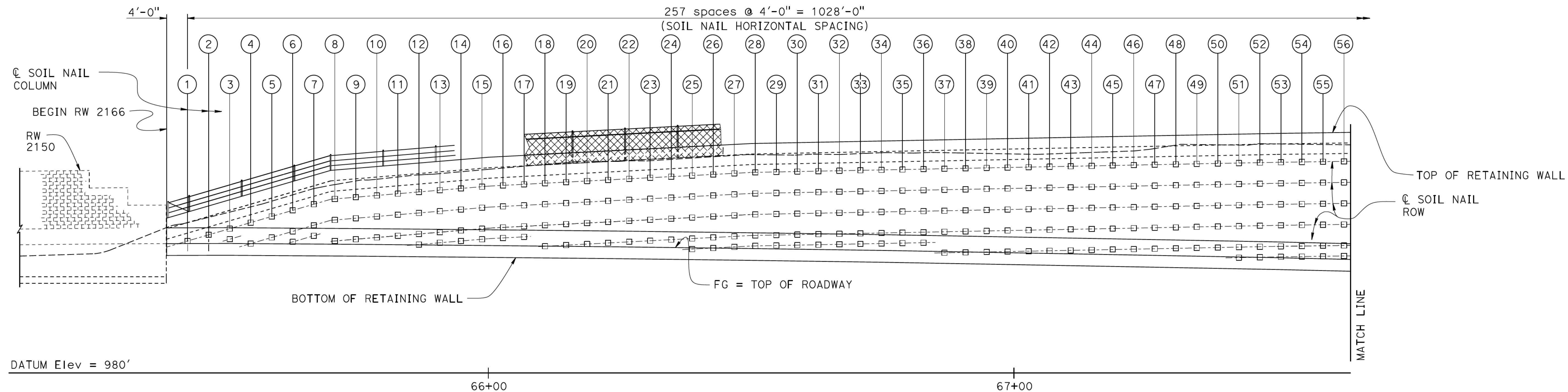
- Indicates location of Soil Nail Assembly
- Indicates location of Proof Test Nail, Tot 8 this page

* Length of Soil Nail shown not to scale, for clarity

NOTES:

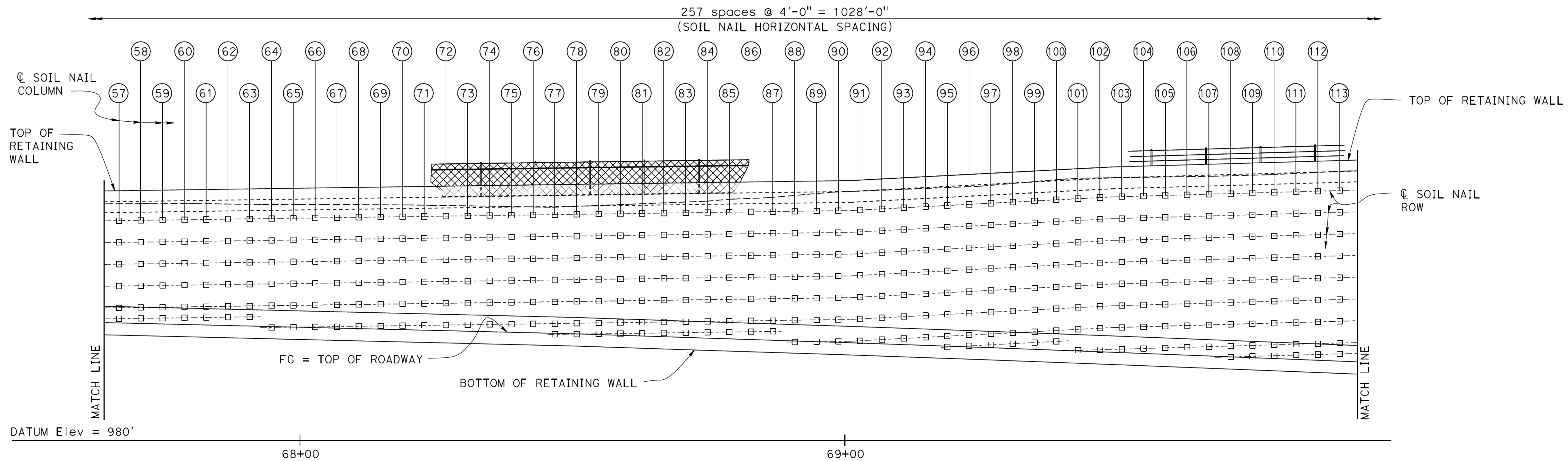
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DEVELOPED ELEVATION

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DEVELOPED ELEVATION

1" = 10'-0"

SOIL NAILS LAYOUT

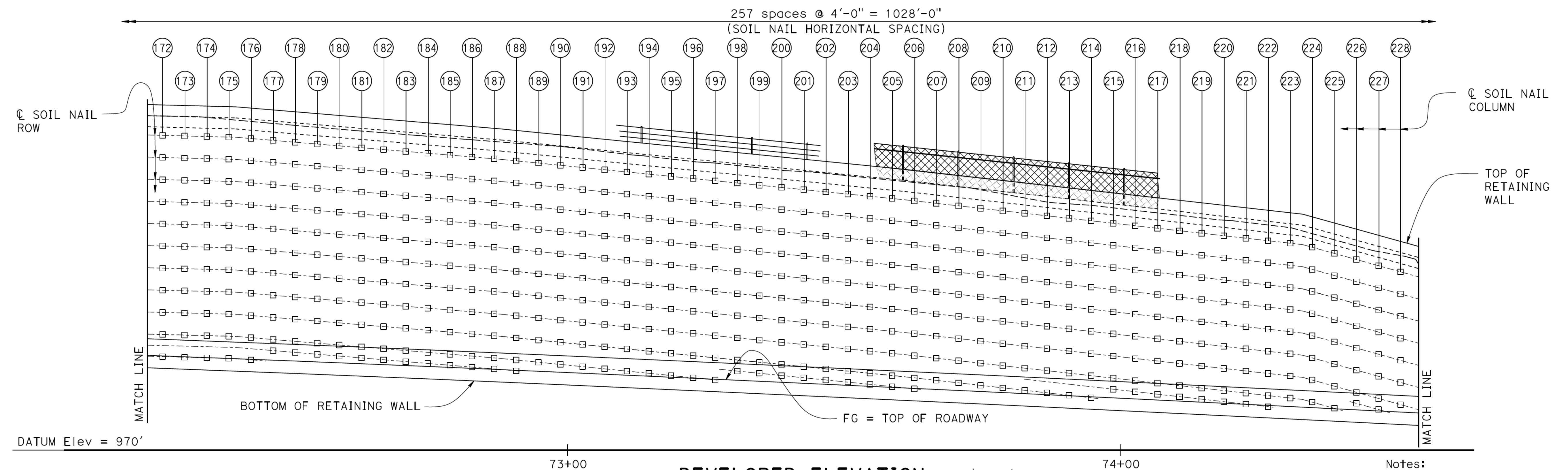
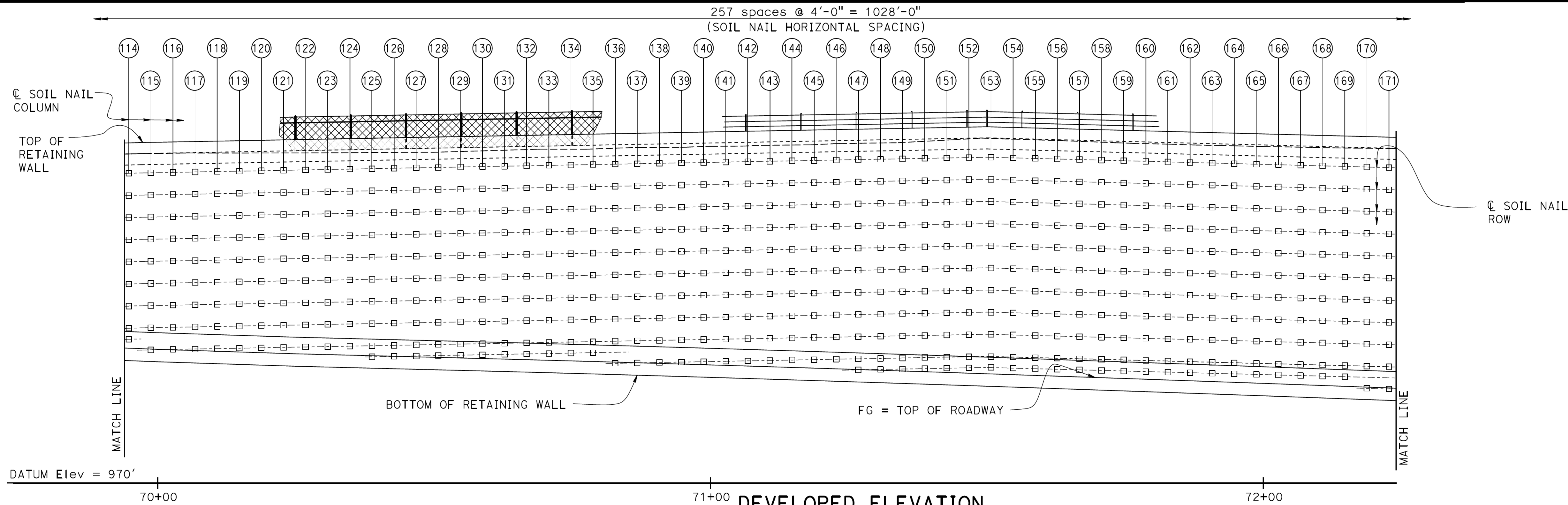
Legend:

- (XX) - Indicates Soil Nail Column number
- - Indicates location of Soil Nail Assembly

Notes:

- For Soil Nail location, see "SOIL NAIL DETAILS NO. 6" through "SOIL NAIL DETAILS NO. 12" sheets.
- For Test Nail location, see "STRUCTURE PLAN NO. 1" and "STRUCTURE PLAN NO. 2" sheets.

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Legend:

(XX) - Indicates Soil Nail Column number

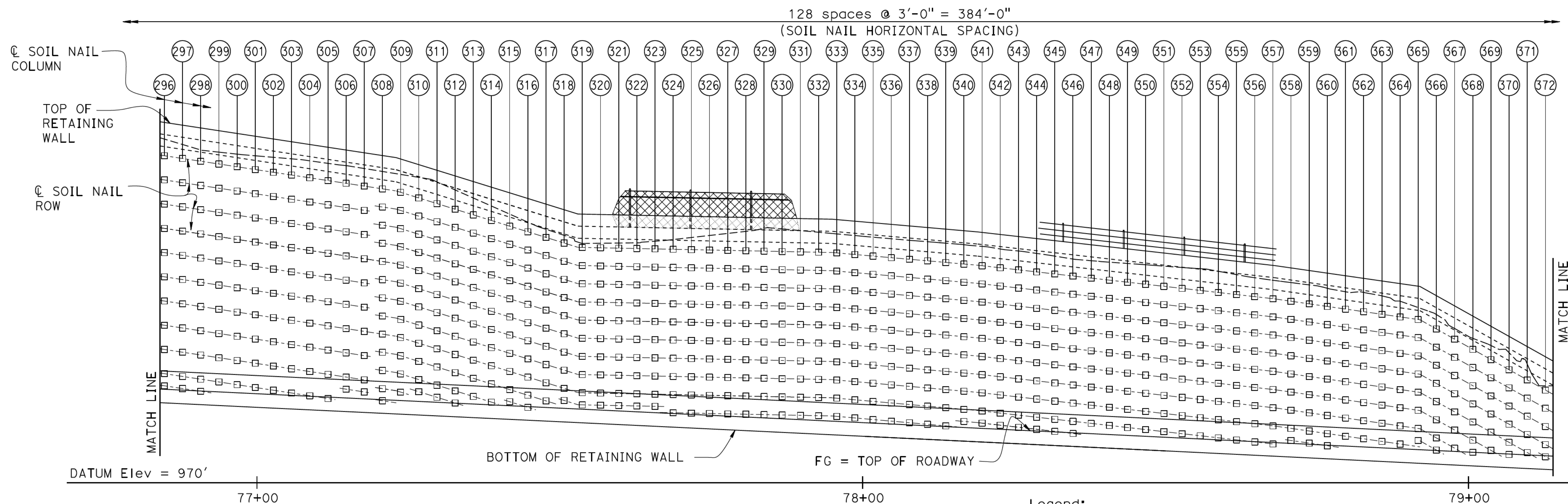
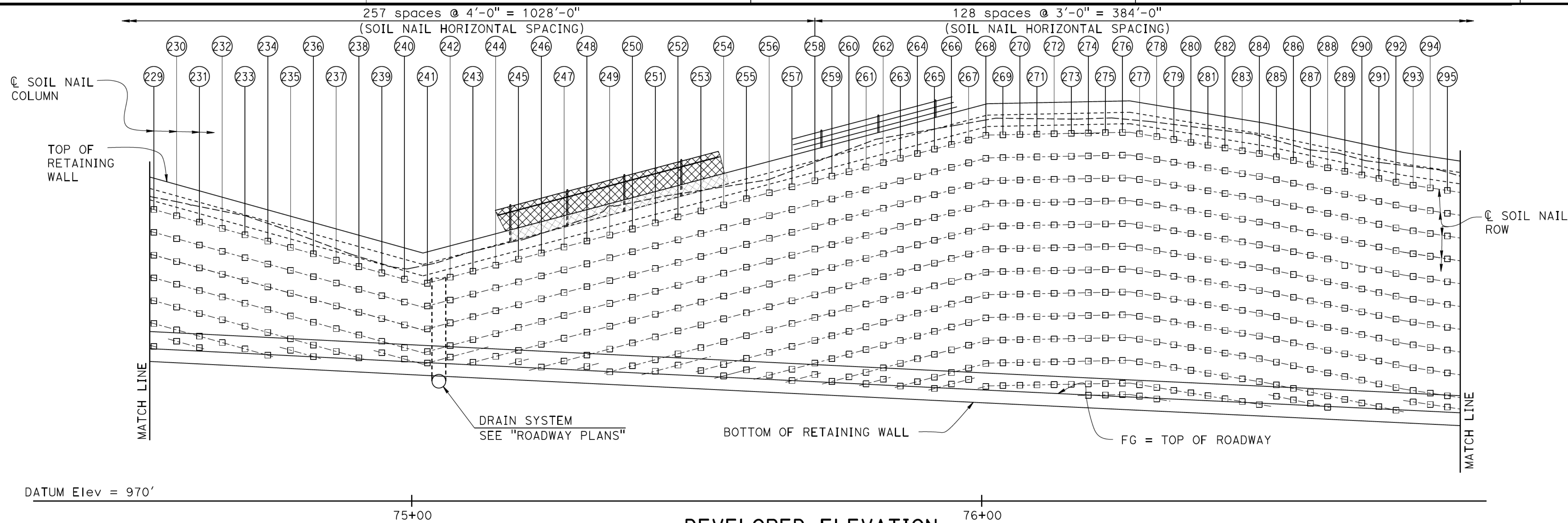
□ - Indicates location of Soil Nail Assembly

Notes:

1. For Soil Nail location, see "SOIL NAIL DETAILS NO. 6" through "SOIL NAIL DETAILS NO. 12" sheets.

2. For Test Nail location, see "STRUCTURE PLAN NO. 3" and "STRUCTURE PLAN NO. 4" sheets.

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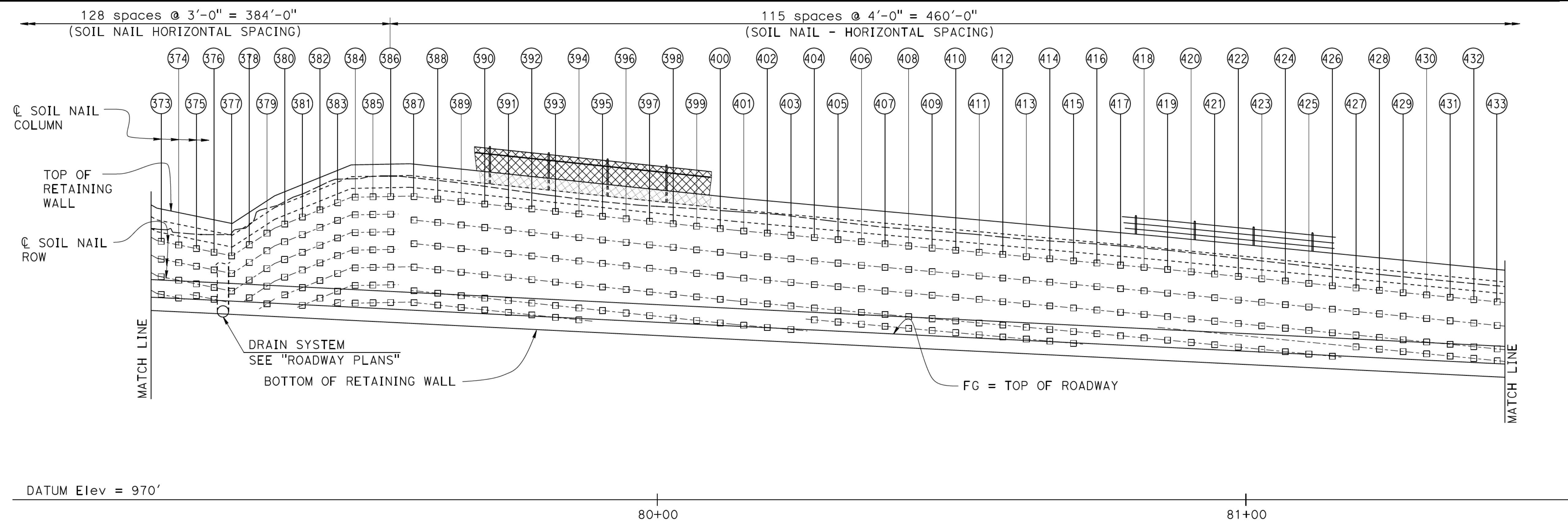


DEVELOPED ELEVATION
1" = 10'-0"
SOIL NAILS LAYOUT

- Legend:
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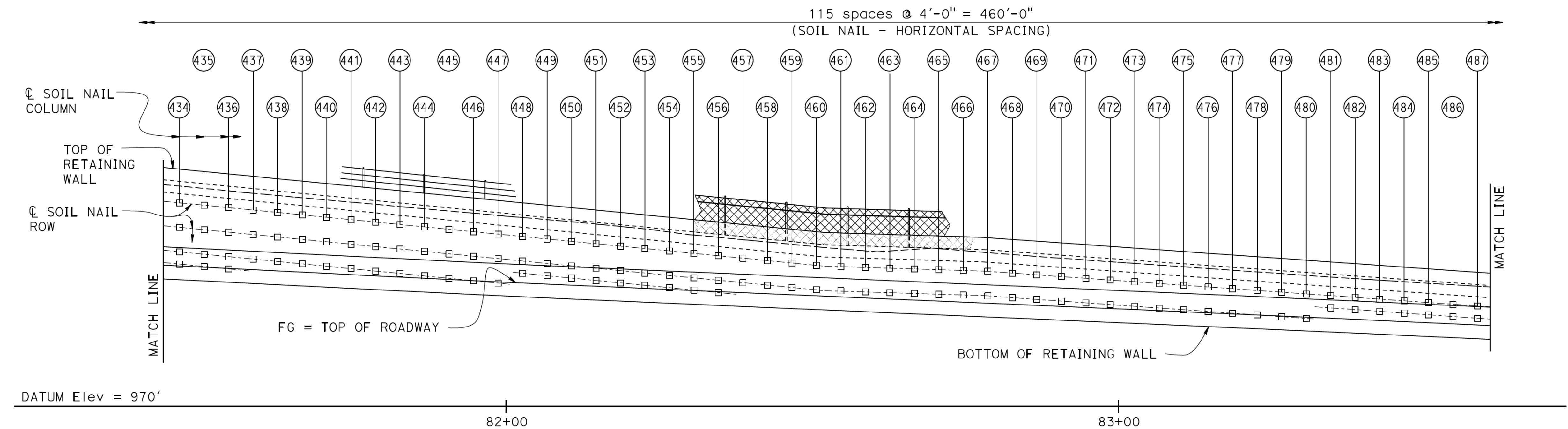
- Notes:
1. For Soil Nail location, see "SOIL NAIL DETAILS NO. 6" through "SOIL NAIL DETAILS NO. 12" sheets.
 2. For Test Nail location, see "STRUCTURE PLAN NO.5" and "STRUCTURE PLAN NO. 6" sheets.

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DEVELOPED ELEVATION

1" = 10'-0"



DEVELOPED ELEVATION

1" = 10'-0"

SOIL NAILS LAYOUT

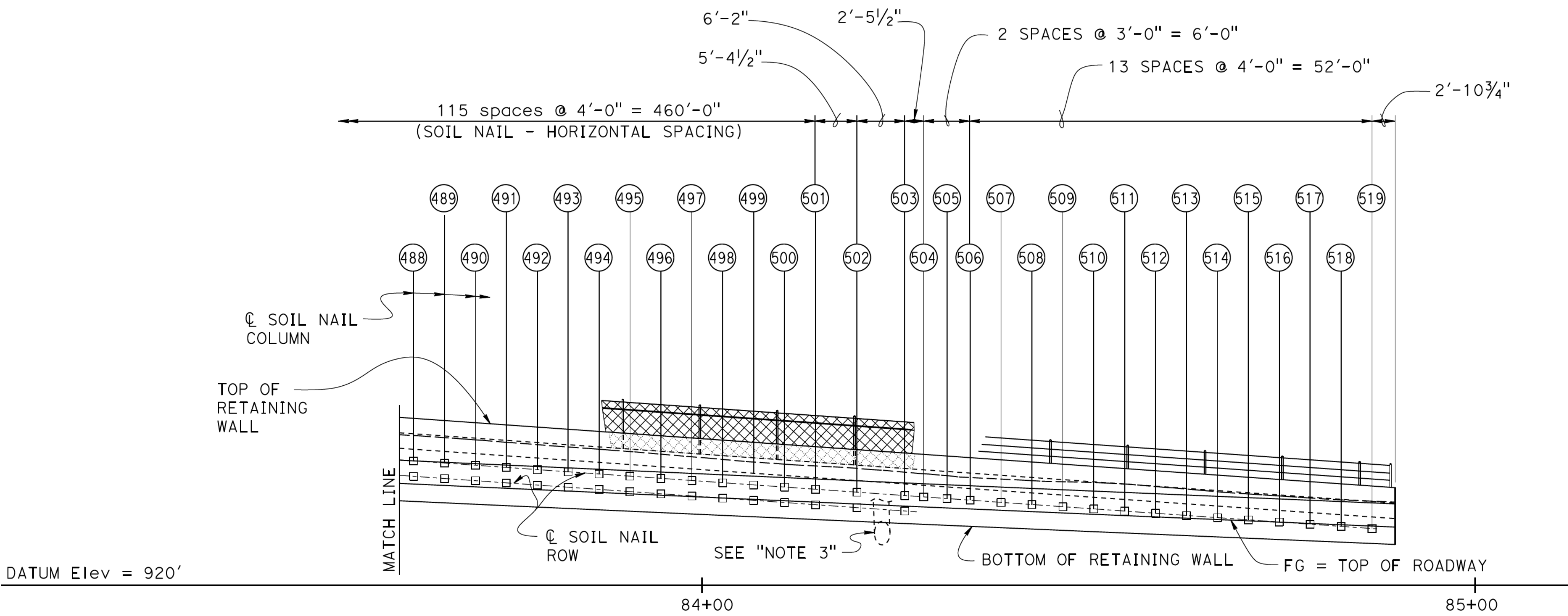
Legend:

- (XX) - Indicates Soil Nail Column number
□ - Indicates location of Soil Nail Assembly

Notes:

1. For Soil Nail location, see "SOIL NAIL DETAILS NO. 6" through "SOIL NAIL DETAILS NO. 12" sheets.
2. For Test Nail location, see "STRUCTURE PLAN NO. 7" and "STRUCTURE PLAN NO. 8" sheets.

NOTE:
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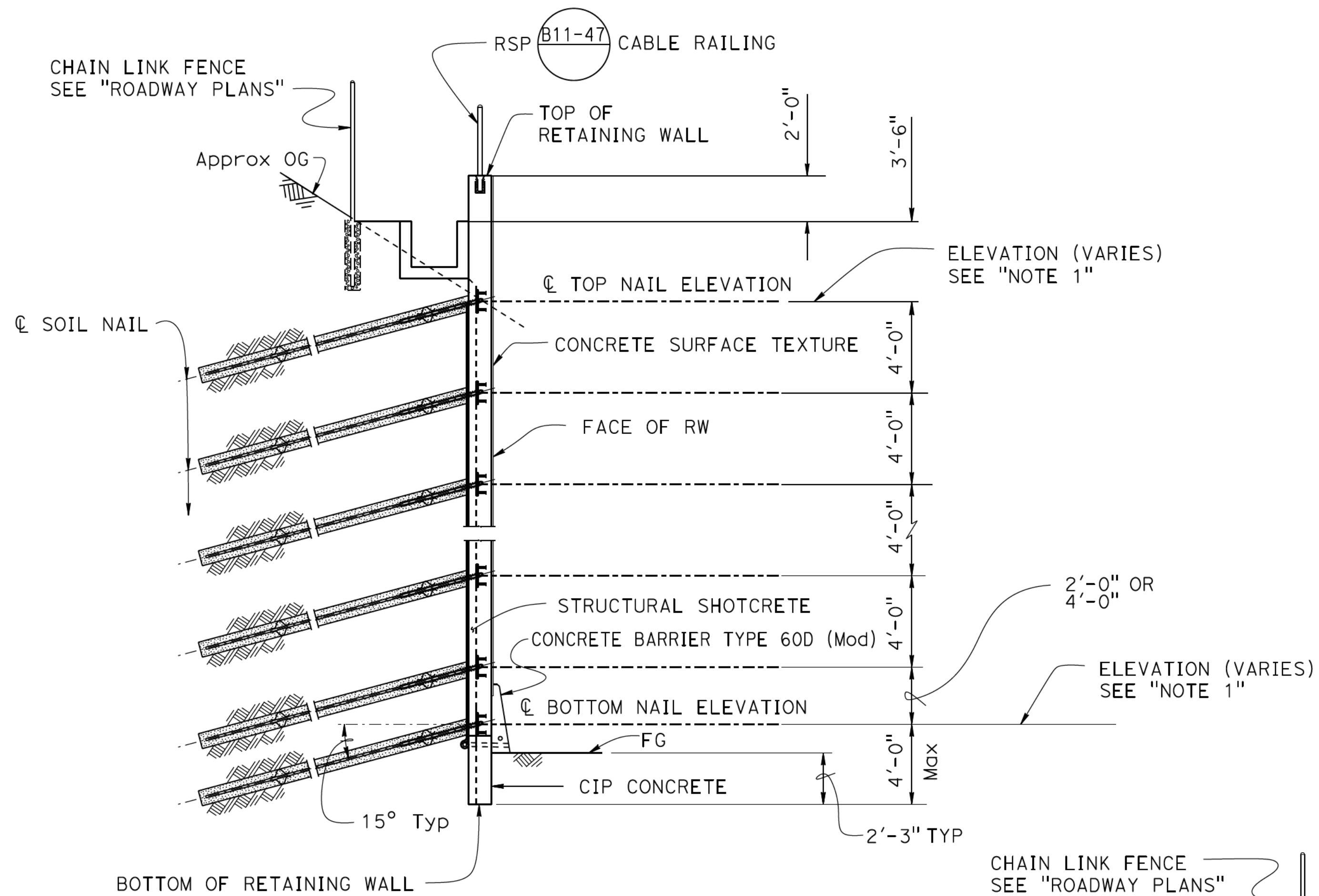
DEVELOPED ELEVATION
1" = 10'-0"
SOIL NAILS LAYOUT

Legend:

- (XX) - Indicates Soil Nail Column number
- - Indicates location of Soil Nail Assembly

- Notes:
1. For Soil Nail location , see "SOIL NAIL DETAILS NO. 6" through "SOIL NAIL DETAILS NO. 12" sheets.
 2. For Test Nail location, see "STRUCTURE PLAN NO. 9" sheet.
 3. To protect the Existing 24" CMP, see "STUCTURE PLAN NO. 9" sheet.

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.



TYPICAL SECTION

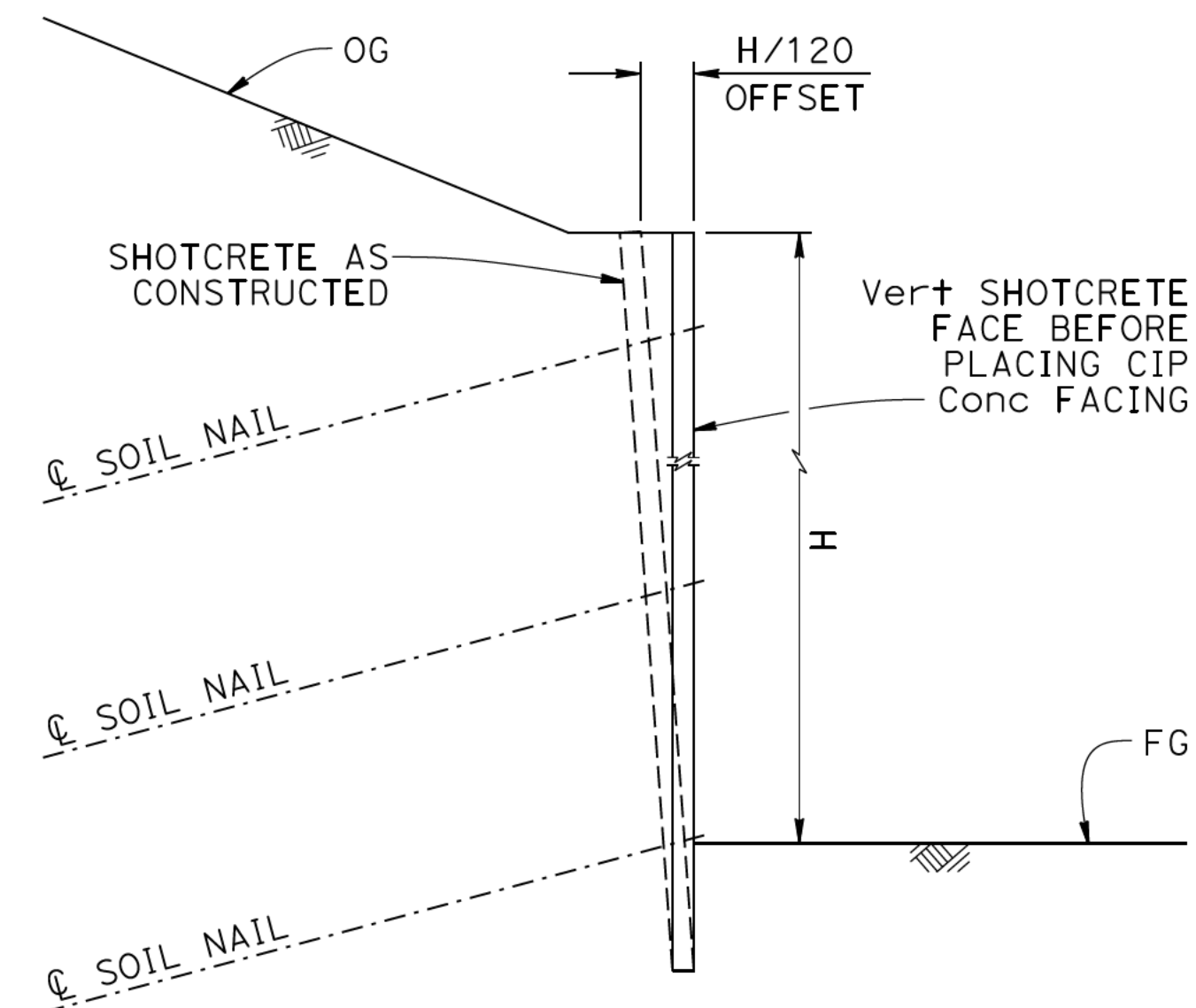
1/4" = 1'-0"

SOIL NAIL - CROSS SECTION

BETWEEN NAIL COLUMN ① AND NAIL COLUMN ③⑦ AND
BETWEEN NAIL COLUMN ③⑧ AND NAIL COLUMN ⑤⑨

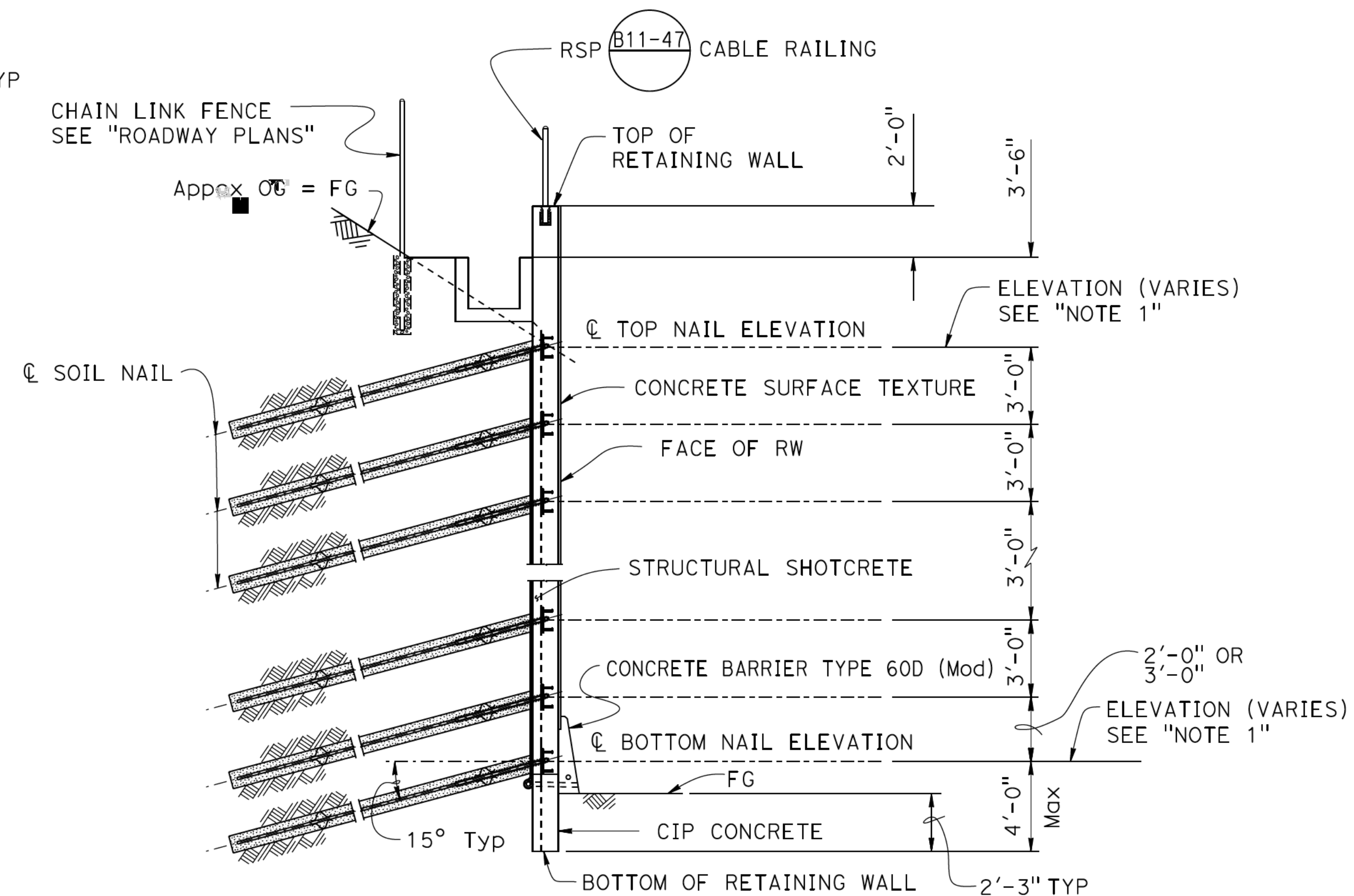
Notes:

1. For Soil Nail elevation, see "SOIL NAIL DETAILS NO. 7" through "SOIL NAIL DETAILS NO. 12" sheets.
2. For Soil Nail details, see "SOIL NAIL DETAILS NO. 14" sheet.



SOIL NAIL WALL OFFSET DETAIL

NO SCALE

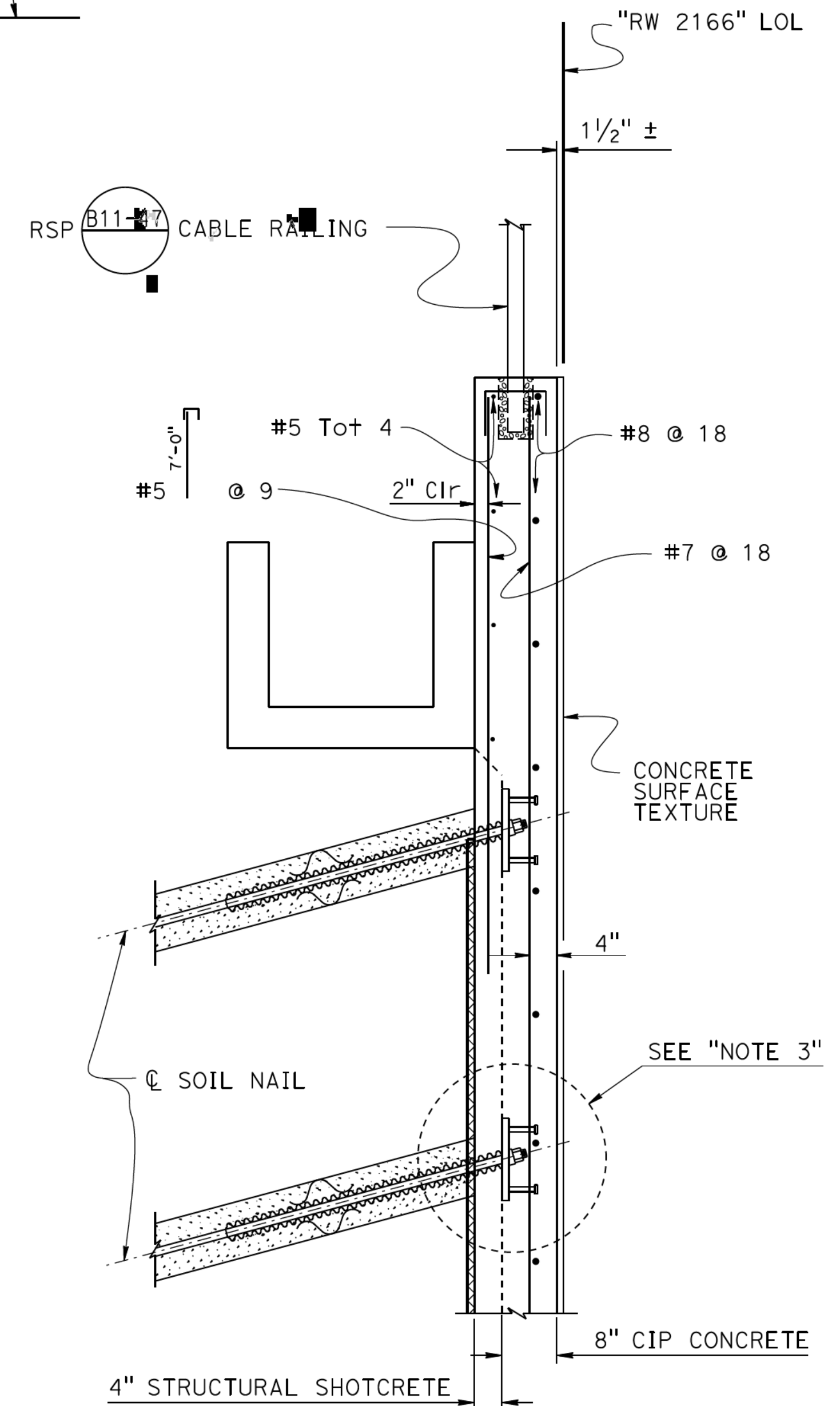


TYPICAL SECTION

1/4" = 1'-0"

SOIL NAIL - CROSS SECTION

BETWEEN NAIL COLUMN ③⑧ AND NAIL COLUMN ⑤⑨



PART TYPICAL SECTION

3/4" = 1'-0"

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.

SOIL NAIL TABLE																					
LOCATION	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
TOP NAIL ELEVATION	1005.13	1006.29	1007.46	1008.62	1009.79	1010.95	1012.12	1013.12	1013.45	1013.79	1014.12	1014.45	1014.79	1015.12	1015.45	1015.70	1015.91	1016.12	1016.33	1016.54	1016.74
BOTTOM NAIL ELEVATION			1005.46	1004.62	1005.79	1004.95	1006.12	1005.12	1005.45	1005.79	1006.12	1004.45	1004.79	1005.12	1005.45	1005.70	1005.91	1004.12	1004.33	1004.54	1004.74
SOIL NAILS QUANTITY	1	1	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4

	SOIL NAIL TABLE																						
LOCATION	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)
TOP NAIL ELEVATION	1016.95	1017.16	1017.37	1017.58	1017.79	1018.00	1018.18	1018.26	1018.33	1018.41	1018.49	1018.56	1018.64	1018.72	1018.80	1018.87	1018.95	1019.03	1019.10	1019.18	1019.26	1019.34	1019.41
BOTTOM NAIL ELEVATION	1004.95	1005.16	1005.37	1003.58	1003.79	1004.00	1004.18	1004.26	1004.33	1004.41	1004.49	1004.56	1004.64	1004.72	1004.80	1002.87	1002.95	1003.03	1003.10	1003.18	1003.26	1003.34	1003.41
SOIL NAILS QUANTITY	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

	SOIL NAIL TABLE																						
LOCATION	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)
TOP NAIL ELEVATION	1019.49	1019.57	1019.64	1019.72	1019.80	1019.87	1019.95	1020.03	1020.10	1020.16	1020.21	1020.27	1020.32	1020.38	1020.44	1020.49	1020.55	1020.60	1020.66	1020.71	1020.77	1020.82	1020.88
BOTTOM NAIL ELEVATION	1003.49	1003.57	1003.64	1003.72	1003.80	1003.87	1001.95	1002.03	1002.10	1002.16	1002.21	1002.27	1002.32	1002.38	1002.44	1002.49	1002.55	1002.60	1000.66	1000.71	1000.77	1000.82	1000.88
SOIL NAILS QUANTITY	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

	SOIL NAIL TABLE																						
LOCATION	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)
TOP NAIL ELEVATION	1020.94	1020.99	1021.05	1021.10	1021.16	1021.21	1021.27	1021.32	1021.38	1021.43	1021.49	1021.55	1021.60	1021.66	1021.71	1021.77	1021.82	1021.88	1021.93	1021.99	1022.05	1022.10	1022.16
BOTTOM NAIL ELEVATION	1000.94	1000.99	1001.05	1001.10	1001.16	1001.21	1001.27	1001.32	1001.38	999.43	999.49	999.55	999.60	999.66	999.71	999.77	999.82	999.88	999.93	999.99	998.05	998.10	998.16
SOIL NAILS QUANTITY	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7

SOIL NAIL TABLE																							
LOCATION	(91)	(92)	(93)	(94)	(95)	(96)	(97)	(98)	(99)	(100)	(101)	(102)	(103)	(104)	(105)	(106)	(107)	(108)	(109)	(110)	(111)	(112)	(113)
TOP NAIL ELEVATION	1022.28	1022.49	1022.70	1022.90	1023.11	1023.32	1023.53	1023.74	1023.95	1024.15	1024.36	1024.57	1024.74	1024.85	1024.96	1025.08	1025.19	1025.30	1025.41	1025.52	1025.64	1025.75	1025.87
BOTTOM NAIL ELEVATION	998.28	998.49	998.70	998.90	997.11	997.32	997.53	997.74	997.95	998.15	996.36	996.57	996.74	996.85	996.96	997.08	997.19	995.30	995.41	995.52	995.64	995.75	995.87
SOIL NAILS QUANTITY	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9

SOIL NAIL TABLE																							
LOCATION	(114)	(115)	(116)	(117)	(118)	(119)	(120)	(121)	(122)	(123)	(124)	(125)	(126)	(127)	(128)	(129)	(130)	(131)	(132)	(133)	(134)	(135)	(136)
TOP NAIL ELEVATION	1025.98	1026.07	1026.14	1026.22	1026.29	1026.37	1026.44	1026.51	1026.59	1026.66	1026.74	1026.81	1026.89	1026.96	1027.03	1027.11	1027.18	1027.26	1027.33	1027.40	1027.48	1027.55	1027.62
BOTTOM NAIL ELEVATION	995.98	994.07	994.14	994.22	994.29	994.37	994.44	994.51	994.59	994.66	994.74	992.81	992.89	992.96	993.03	993.11	993.18	993.26	993.33	993.40	993.48	993.55	991.62
SOIL NAILS QUANTITY	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10

SOIL NAIL TABLE																							
LOCATION	(137)	(138)	(139)	(140)	(141)	(142)	(143)	(144)	(145)	(146)	(147)	(148)	(149)	(150)	(151)	(152)	(153)	(154)	(155)	(156)	(157)	(158)	(159)
TOP NAIL ELEVATION	1027.70	1027.78	1027.85	1027.93	1028.00	1028.07	1028.15	1028.22	1028.30	1028.37	1028.45	1028.52	1028.60	1028.67	1028.75	1028.82	1028.86	1028.76	1028.66	1028.55	1028.45	1028.35	1028.24
BOTTOM NAIL ELEVATION	991.70	991.78	991.85	991.93	992.00	992.07	992.15	992.22	992.30	992.37	990.45	990.52	990.60	990.67	990.75	990.82	990.86	990.76	990.66	990.55	990.45	990.35	990.24
SOIL NAILS QUANTITY	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11

SOIL NAIL TABLE																							
LOCATION	(160)	(161)	(162)	(163)	(164)	(165)	(166)	(167)	(168)	(169)	(170)	(171)	(172)	(173)	(174)	(175)	(176)	(177)	(178)	(179)	(180)	(181)	(182)
TOP NAIL ELEVATION	1028.14	1028.04	1027.94	1027.83	1027.73	1027.63	1027.52	1027.42	1027.32	1027.21	1027.11	1027.01	1026.90	1026.80	1026.70	1026.60	1026.33	1026.00	1025.67	1025.34	1025.00	1024.67	1024.34
BOTTOM NAIL ELEVATION	990.14	990.04	989.94	989.83	989.73	989.63	989.52	989.42	989.32	989.21	987.11	987.01	986.90	986.80	986.70	986.60	986.33	988.00	987.67	987.34	987.00	986.67	986.34
SOIL NAILS QUANTITY	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

SOIL NAIL TABLE																							
LOCATION	(183)	(184)	(185)	(186)	(187)	(188)	(189)	(190)	(191)	(192)	(193)	(194)	(195)	(196)	(197)	(198)	(199)	(200)	(201)	(202)	(203)	(204)	(205)
TOP NAIL ELEVATION	1024.00	1023.67	1023.34	1023.00	1022.67	1022.30	1021.90	1021.50	1021.10	1020.70	1020.30	1019.90	1019.50	1019.10	1018.70	1018.30	1017.90	1017.50	1017.10	1016.70	1016.30	1015.89	1015.49
BOTTOM NAIL ELEVATION	986.00	985.67	985.34	985.00	984.67	984.30	985.90	985.50	985.10	984.70	984.30	983.90	983.50	983.10	982.70	984.30	983.90	983.50	983.10	982.70	982.30	981.89	981.49
SOIL NAILS QUANTITY	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

SOIL NAIL TABLE																							
LOCATION	(206)	(207)	(208)	(209)	(210)	(211)	(212)	(213)	(214)	(215)	(216)	(217)	(218)	(219)	(220)	(221)	(222)	(223)	(224)	(225)	(226)	(227)	(228)
TOP NAIL ELEVATION	1015.07	1014.62	1014.17	1013.72	1013.27	1012.82	1012.37	1011.92	1011.47	1011.02	1010.57	1010.12	1009.67	1009.22	1008.77	1008.32	1007.87	1007.42	1006.68	1005.57	1004.46	1003.35	1002.23
BOTTOM NAIL ELEVATION	981.07	982.62	982.17	981.72	981.27	980.82	980.37	979.92	979.47	981.02	980.57	980.12	279.67	979.22	978.77	978.32	977.87	979.42	978.68	977.57	978.46	977.35	978.23
SOIL NAILS QUANTITY	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	7

SOIL NAIL TABLE																							
LOCATION	(229)	(230)	(231)	(232)	(233)	(234)	(235)	(236)	(237)	(238)	(239)	(240)	(241)	(242)	(243)	(244)	(245)	(246)	(247)	(248)	(249)	(250)	(251)
TOP NAIL ELEVATION	1001.12	1000.01	998.90	997.79	996.67	995.56	994.45	993.34	992.23	991.11	990.00	988.89	988.19	989.25	990.31	991.36	992.42	993.48	994.54	995.60	996.65	997.71	998.77
BOTTOM NAIL ELEVATION	977.12	978.01	976.90	977.79	976.67	975.56	976.45	975.34	976.23	975.11	976.00	974.89	974.19	975.25	974.31	975.36	974.42	973.48	974.54	973.60	972.65	973.71	972.77
SOIL NAILS QUANTITY	7	7	7	6	6	6	6	6	5	5	5	5	5	5	5	5	6	6	6	7	7	7	8

SOIL NAIL TABLE																							
LOCATION	(252)	(253)	(254)	(255)	(256)	(257)	(258)	(259)	(260)	(261)	(262)	(263)	(264)	(265)	(266)	(267)	(268)	(269)	(270)	(271)	(272)	(273)	(274)
TOP NAIL ELEVATION	999.83	1000.88	1001.94	1003.00	1004.05	1005.11	1006.17	1006.96	1007.76	1008.55	1009.34	1010.14	1010.93	1011.72	1012.52	1013.31	1014.10	1014.23	1014.29	1014.35	1014.41	1014.47	1014.53
BOTTOM NAIL ELEVATION	973.83	972.88	971.94	973.00	972.05	971.11	972.17	970.96	971.76	970.55	971.34	970.14	970.93	969.72	970.52	971.31	970.10	970.23	970.29	970.35	970.41	970.47	968.53
SOIL NAILS QUANTITY	8	8	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	12	12	12	12	12	13

SOIL NAIL TABLE																							
LOCATION	(275)	(276)	(277)	(278)	(279)	(280)	(281)	(282)	(283)	(284)	(285)	(286)	(287)	(288)	(289)	(290)	(291)	(292)	(293)	(294)	(295)	(296)	(297)
TOP NAIL ELEVATION	1014.59	1014.65	1014.39	1013.90	1013.40	1012.91	1012.42	1011.92	1011.43	1010.93	1010.36	1009.72	1009.08	1008.45	1007.81	1007.18	1006.54	1005.91	1005.37	1004.92	1004.46	1004.00	1003.55
BOTTOM NAIL ELEVATION	968.59	968.65	968.39	967.90	969.40	968.91	968.42	967.92	967.43	966.93	968.36	967.72	967.08	966.45	967.81	967.18	966.54	965.91	967.37	966.92	966.46	966.00	965.55
SOIL NAILS QUANTITY	13	13	13	13	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11

SOIL NAIL TABLE																							
LOCATION	(298)	(299)	(300)	(301)	(302)	(303)	(304)	(305)	(306)	(307)	(308)	(309)	(310)	(311)	(312)	(313)	(314)	(315)	(316)	(317)	(318)	(319)	(320)
TOP NAIL ELEVATION	1003.09	1002.64	1002.18	1001.72	1001.27	1000.81	1000.36	999.90	999.45	998.99	998.53	997.96	997.03	996.10	995.17	994.24	993.31	992.37	991.44	990.51	989.58	988.86	988.80
BOTTOM NAIL ELEVATION	965.09	966.64	966.18	965.72	965.27	964.81	964.36	963.90	965.45	964.99	963.53	964.96	965.03	964.10	963.17	964.24	963.31	963.37	962.44	963.51	963.58	962.86	962.80
SOIL NAILS QUANTITY	11	10	10	10	10	10	10	10	10	10	13	12	12	12	12	11	11	11	11	10	10	10	10

SOIL NAIL TABLE																							
LOCATION	(321)	(322)	(323)	(324)	(325)	(326)	(327)	(328)	(329)	(330)	(331)	(332)	(333)	(334)	(335)	(336)	(337)	(338)	(339)	(340)	(341)	(342)	(343)
TOP NAIL ELEVATION	988.73	988.67	988.61	988.55	988.49	988.43	988.37	988.31	988.25	988.18	988.12	988.06	987.95	987.69	987.43	987.17	986.90	986.64	986.38	986.12	985.84	985.50	985.16
BOTTOM NAIL ELEVATION	962.73	962.67	962.61	961.55	961.49	961.43	961.37	961.31	961.25	961.18	961.12	961.06	960.95	960.69	960.43	960.17	959.90	959.64	959.38	960.12	959.84	959.50	959.16
SOIL NAILS QUANTITY	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

SOIL NAIL TABLE																							
LOCATION	(344)	(345)	(346)	(347)	(348)	(349)	(350)	(351)	(352)	(353)	(354)	(355)	(356)	(357)	(358)	(359)	(360)	(361)	(362)	(363)	(364)	(365)	(366)
TOP NAIL ELEVATION	984.82	984.48	984.13	983.79	983.45	983.11	982.78	982.43	982.09	981.75	981.41	981.07	980.73	980.39	979.97	979.54	979.11	978.68	978.25	977.81	977.38	976.96	975.40
BOTTOM NAIL ELEVATION	958.82	958.48	958.13	959.79	959.45	959.11	958.78	958.43	958.09	957.75	957.41	957.07	956.73	956.39	956.97	956.54	956.11	957.68	957.25	956.81	956.38	956.96	955.40
SOIL NAILS QUANTITY	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8

	SOIL NAIL TABLE																						
LOCATION	(367)	(368)	(369)	(370)	(371)	(372)	(373)	(374)	(375)	(376)	(377)	(378)	(379)	(380)	(381)	(382)	(383)	(384)	(385)	(386)	(387)	(388)	(389)
TOP NAIL ELEVATION	973.70	972.02	970.34	968.67	966.98	965.30	963.87	963.26	962.65	962.04	961.42	963.31	965.27	966.80	968.01	969.22	970.44	971.38	971.44	971.50	971.49	971.07	970.65
BOTTOM NAIL ELEVATION	955.70	955.02	955.34	954.67	954.98	954.30	954.87	954.26	954.65	954.04	955.42	954.31	953.27	954.80	953.01	954.22	953.44	953.38	953.44	953.50	953.49	953.07	952.65
SOIL NAILS QUANTITY	7	7	6	6	5	5	4	4	4	4	3	4	5	5	6	6	7	7	7	7	6	6	6

	SOIL NAIL TABLE																						
LOCATION	(390)	(391)	(392)	(393)	(394)	(395)	(396)	(397)	(398)	(399)	(400)	(401)	(402)	(403)	(404)	(405)	(406)	(407)	(408)	(409)	(410)	(411)	(412)
TOP NAIL ELEVATION	970.23	969.81	969.39	968.97	968.55	968.13	967.71	967.29	966.87	966.45	966.03	965.63	965.27	964.91	964.55	964.18	963.82	963.46	963.10	962.73	962.37	962.01	961.65
BOTTOM NAIL ELEVATION	952.23	951.81	951.39	950.97	950.55	952.13	951.71	951.29	950.87	950.45	950.03	949.63	949.27	948.91	950.55	950.18	949.82	949.46	949.10	948.73	948.37	948.01	947.65
SOIL NAILS QUANTITY	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

	SOIL NAIL TABLE																						
LOCATION	(413)	(414)	(415)	(416)	(417)	(418)	(419)	(420)	(421)	(422)	(423)	(424)	(425)	(426)	(427)	(428)	(429)	(430)	(431)	(432)	(433)	(434)	(435)
TOP NAIL ELEVATION	961.29	960.92	960.56	960.20	959.84	959.48	959.10	958.71	958.31	957.92	957.53	957.14	956.74	956.35	955.96	955.56	955.17	954.78	954.39	954.00	953.60	953.21	952.82
BOTTOM NAIL ELEVATION	947.29	946.92	946.56	948.20	947.84	947.48	947.10	946.71	946.31	945.92	945.53	945.14	944.74	944.35	945.96	945.56	945.17	944.78	944.39	944.00	943.60	943.21	942.82
SOIL NAILS QUANTITY	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

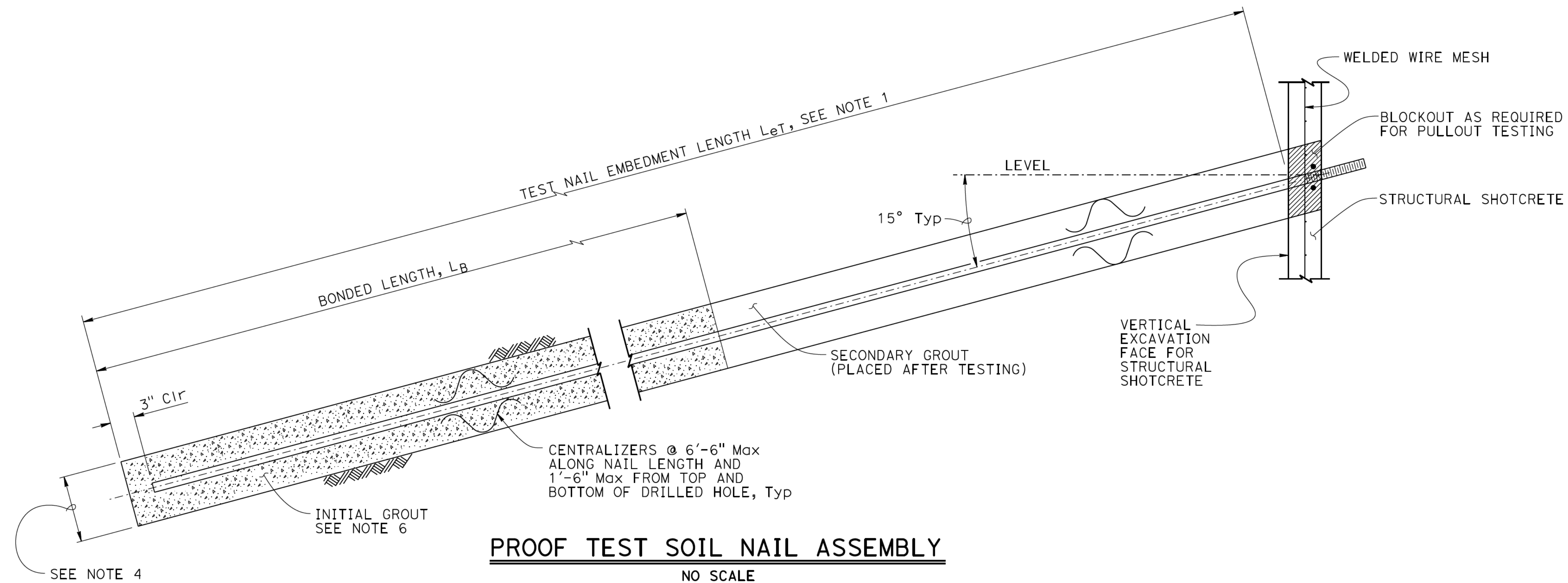
	SOIL NAIL TABLE																						
LOCATION	(436)	(437)	(438)	(439)	(440)	(441)	(442)	(443)	(444)	(445)	(446)	(447)	(448)	(449)	(450)	(451)	(452)	(453)	(454)	(455)	(456)	(457)	(458)
TOP NAIL ELEVATION	952.42	952.03	951.64	951.24	950.85	950.46	950.07	949.68	949.28	948.89	948.50	948.10	947.71	947.32	946.93	946.53	946.14	945.75	945.35	944.96	944.57	944.18	943.78
BOTTOM NAIL ELEVATION	942.42	944.03	943.64	943.24	942.85	942.46	942.07	941.68	941.28	940.89	940.50	940.10	941.71	941.32	940.93	940.53	940.14	939.75	939.35	938.96	938.57	940.18	939.78
SOIL NAILS QUANTITY	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2

SOIL NAIL TABLE																							
LOCATION	(459)	(460)	(461)	(462)	(463)	(464)	(465)	(466)	(467)	(468)	(469)	(470)	(471)	(472)	(473)	(474)	(475)	(476)	(477)	(478)	(479)	(480)	(481)
TOP NAIL ELEVATION	943.39	942.99	942.79	942.67	942.54	942.42	942.29	942.17	942.02	941.74	941.46	941.17	940.89	940.61	940.33	940.05	939.76	939.48	939.20	938.91	938.63	938.35	938.06
BOTTOM NAIL ELEVATION	939.39	938.99	938.79	938.67	938.54	938.42	938.29	938.17	938.02	937.74	937.46	937.17	936.89	936.61	936.33	936.05	935.76	935.48	835.20	934.91	934.63	934.35	936.06
SOIL NAILS QUANTITY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

	SOIL NAIL TABLE																						
LOCATION	(482)	(483)	(484)	(485)	(486)	(487)	(488)	(489)	(490)	(491)	(492)	(493)	(494)	(495)	(496)	(497)	(498)	(499)	(500)	(501)	(502)	(503)	(504)
TOP NAIL ELEVATION	937.78	937.50	937.22	936.93	936.65	936.37	936.09	935.80	935.52	935.24	934.96	934.67	934.39	934.11	933.83	933.54	933.26	932.98	932.70	932.42	932.04	931.61	931.44
BOTTOM NAIL ELEVATION	935.78	935.50	935.22	934.93	934.65	934.37	934.09	933.80	933.52	933.24	932.96	932.67	932.39	932.11	931.83	931.54	931.26	930.98	930.70	930.42	930.04	929.61	
SOIL NAILS QUANTITY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1

	SOIL NAIL TABLE														
LOCATION	(505)	(506)	(507)	(508)	(509)	(510)	(511)	(512)	(513)	(514)	(515)	(516)	(517)	(518)	(519)
TOP NAIL ELEVATION	931.22	931.00	930.72	930.44	930.15	929.87	929.59	929.31	929.02	928.74	928.46	928.18	927.89	927.61	927.33
BOTTOM NAIL ELEVATION															
SOIL NAILS QUANTITY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

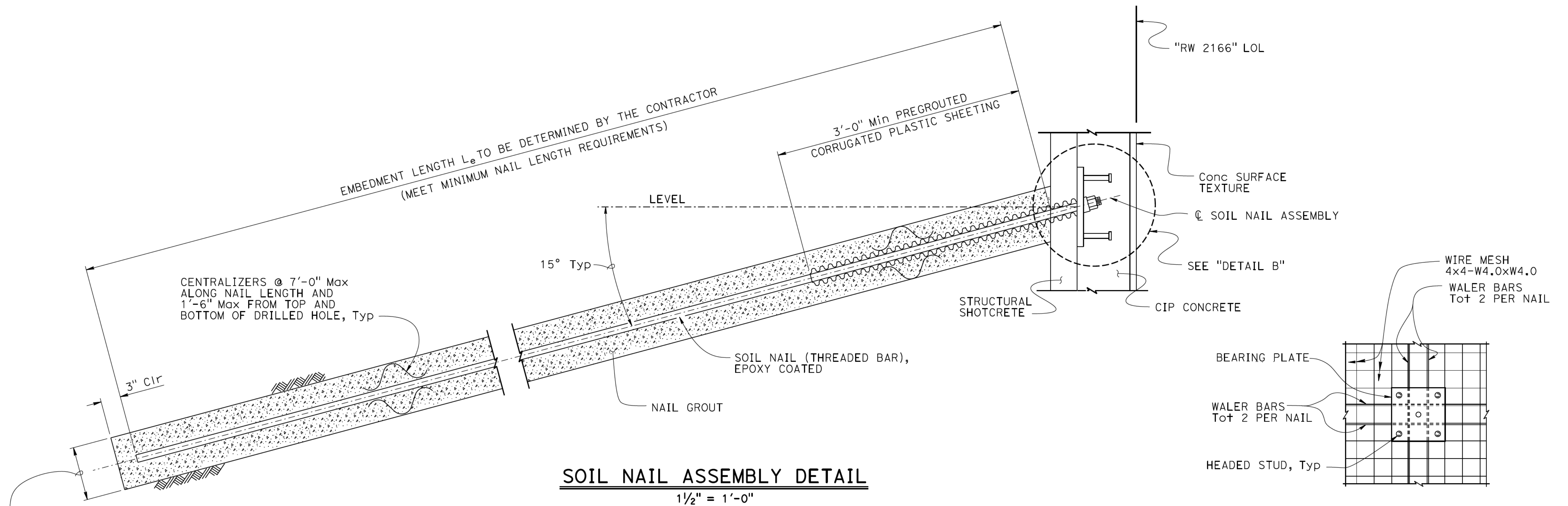
NOTE:
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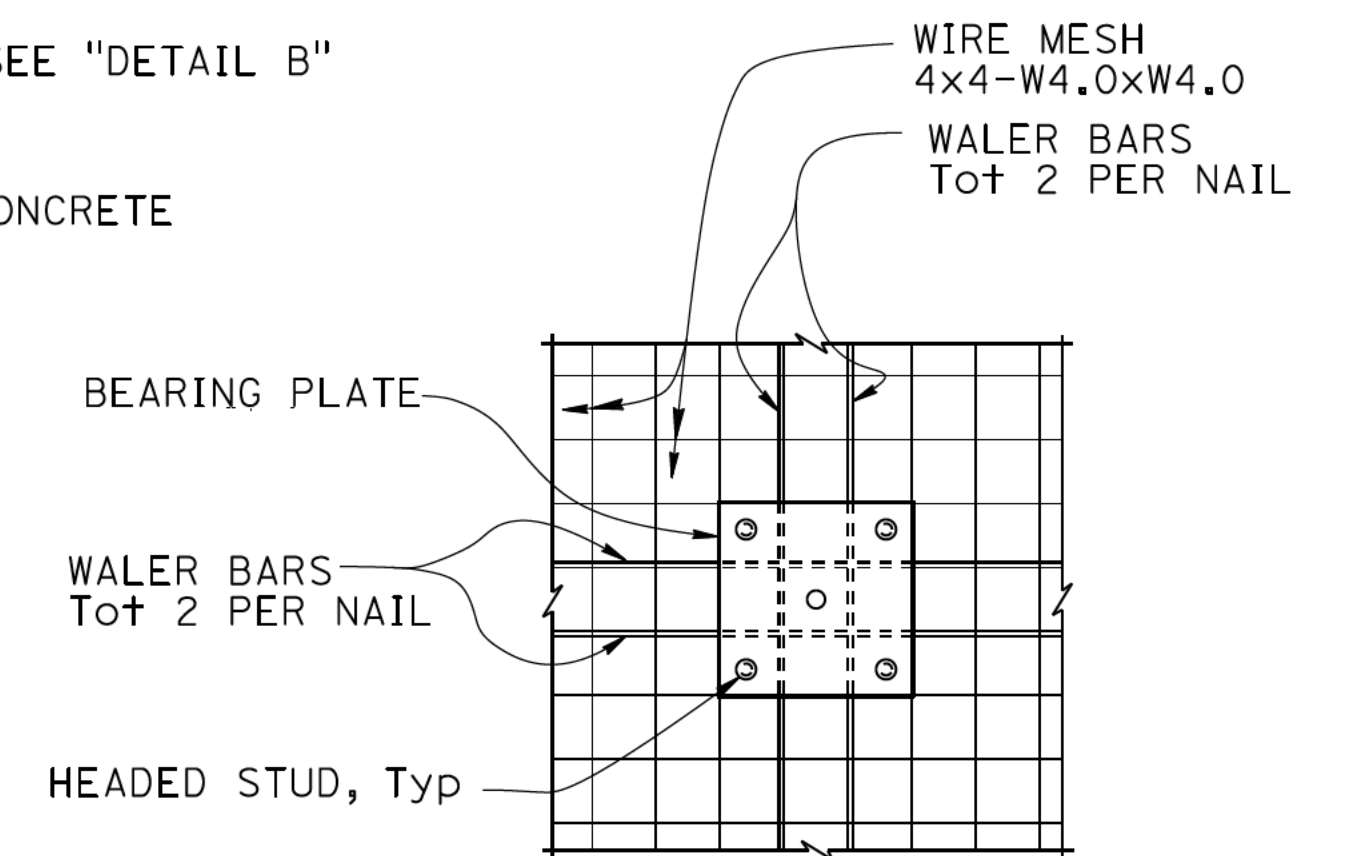
NOTES:

1. The L_{eT} , embedment length, of Proof Test Nails must be equal to $2/3$ of the embedment length, L_e of adjacent soil nail assemblies, but not less than 12'-0".
2. Total length of Proof Test Soil Nail Assembly equals the embedment length plus the length required for jacking equipment.
3. For location of Proof Test Soil Nail Assemblies, see "STRUCTURE PLAN" sheets. Additional Proof Test Soil Nails must be installed and tested per Special Provisions.
4. The diameter of drilled hole to be determined by Contractor
5. For bonded length L_B , see Special Provisions
6. Finish grout surface to be normal to the bar.

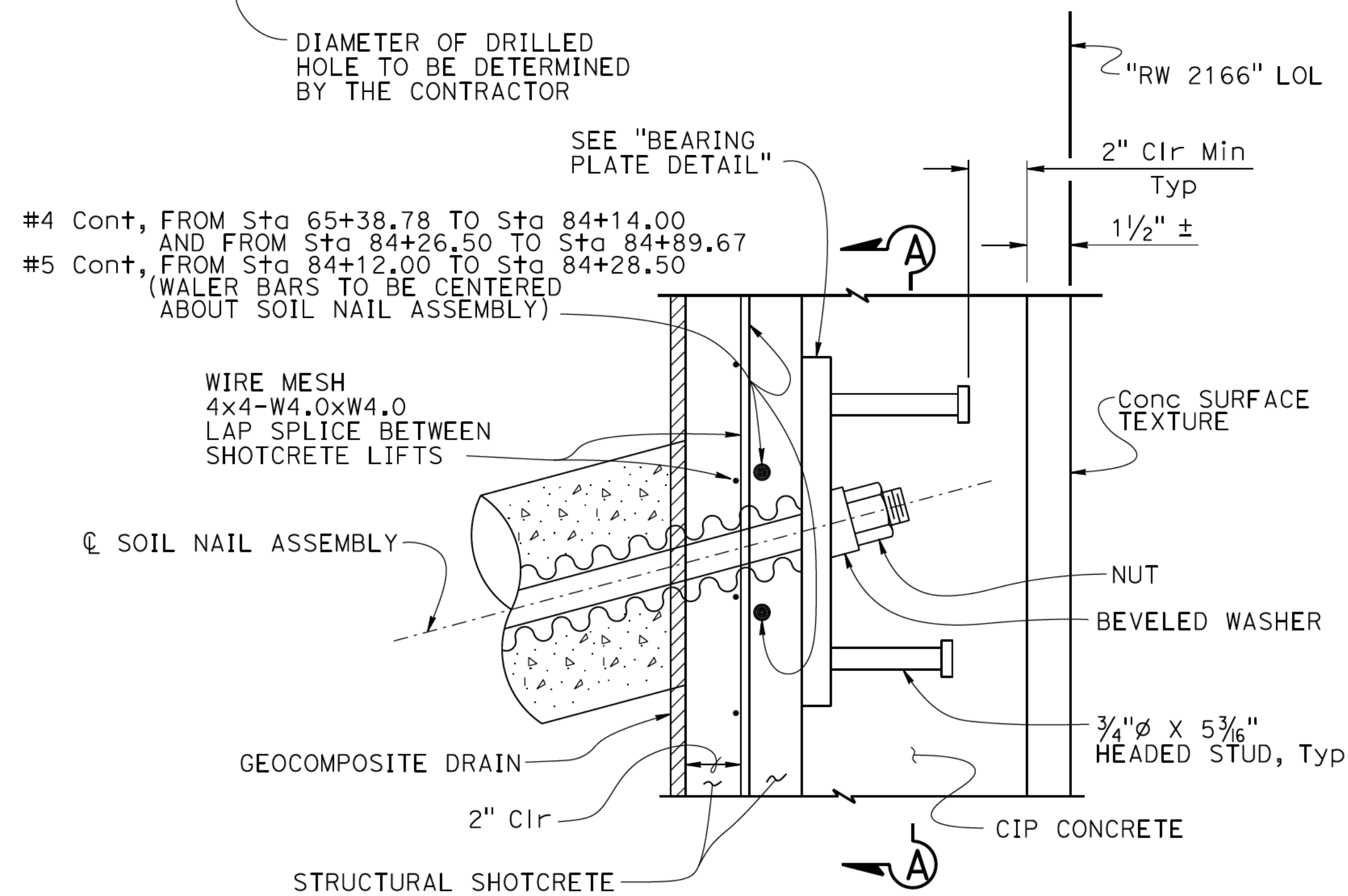
NOTE:
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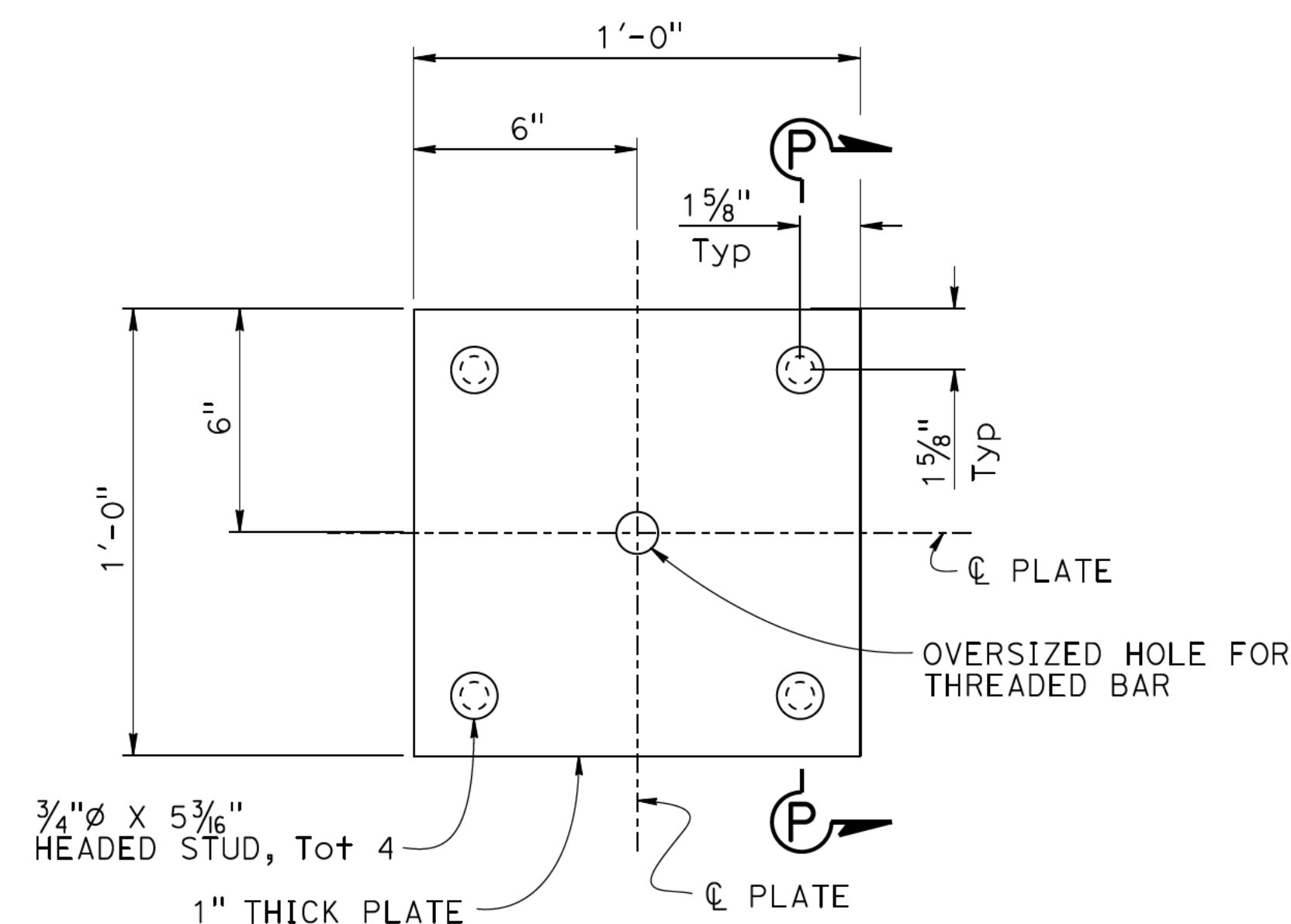
SOIL NAIL ASSEMBLY DETAIL
1 1/2" = 1'-0"



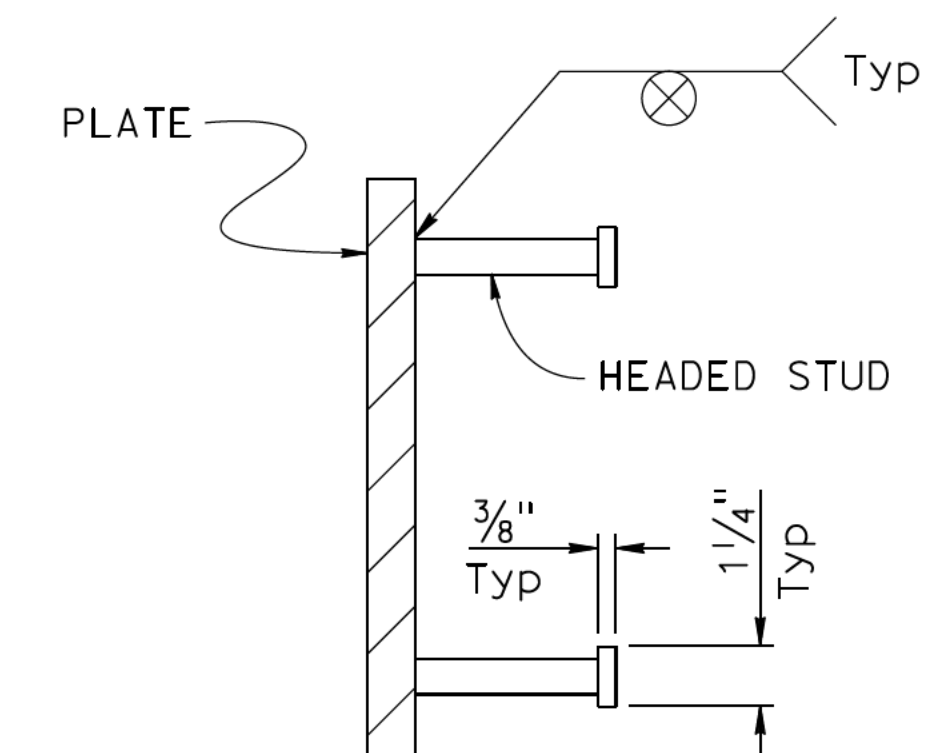
SECTION A-A
1" = 1'-0"



DETAIL B
3" = 1'-0"



FRONT VIEW



SECTION P-P

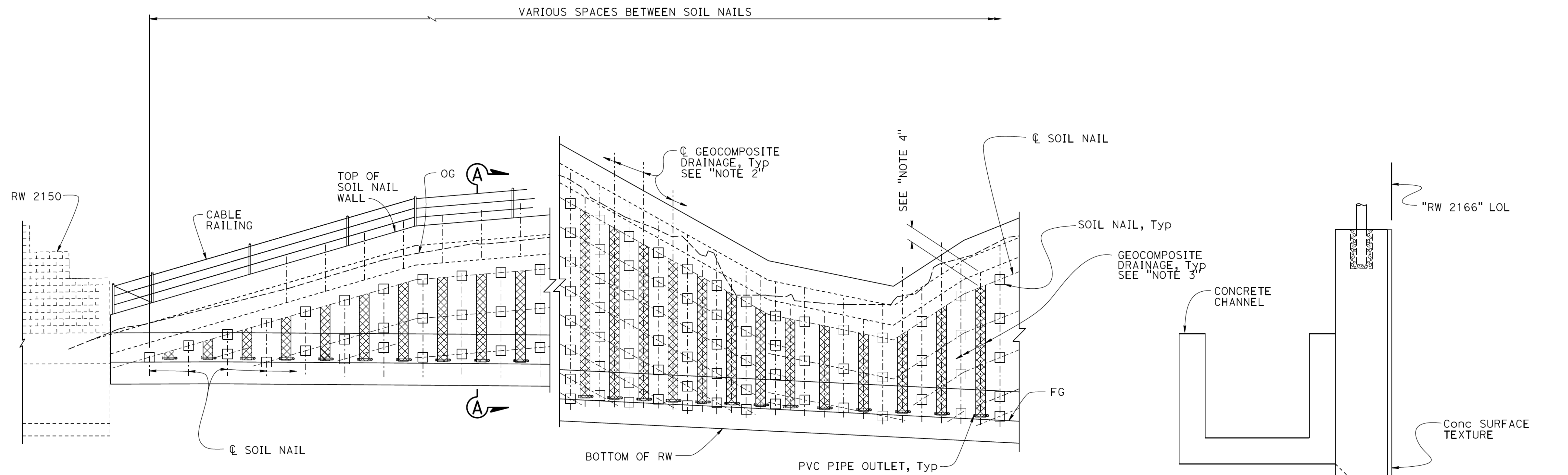
BEARING PLATE DETAIL
3" = 1'-0"

#4 Cont, FROM Sta 65+38.78 TO Sta 84+14.00
AND FROM Sta 84+26.50 TO Sta 84+89.67
#5 Cont, FROM Sta 84+12.00 TO Sta 84+28.50
(WALER BARS TO BE CENTERED ABOUT SOIL NAIL ASSEMBLY)

WIRE MESH
4x4-W4.0xW4.0
LAP SPLICE BETWEEN
SHOTCRETE LIFTS

Note:
Other reinforcement not shown for clarity.

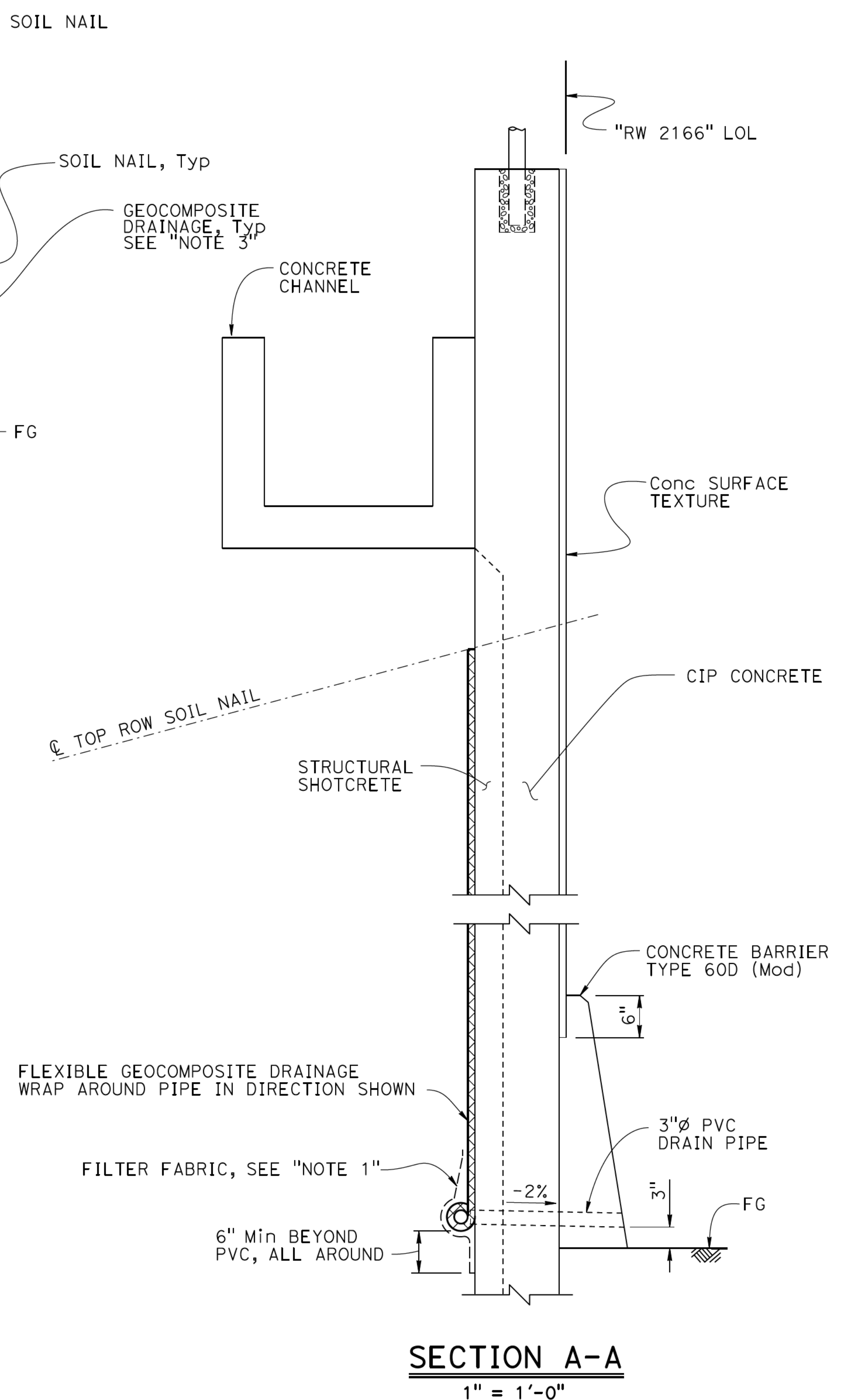
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SOIL NAIL WALL - DEVELOPED PART ELEVATION
 $\frac{3}{16}" = 1'-0"$

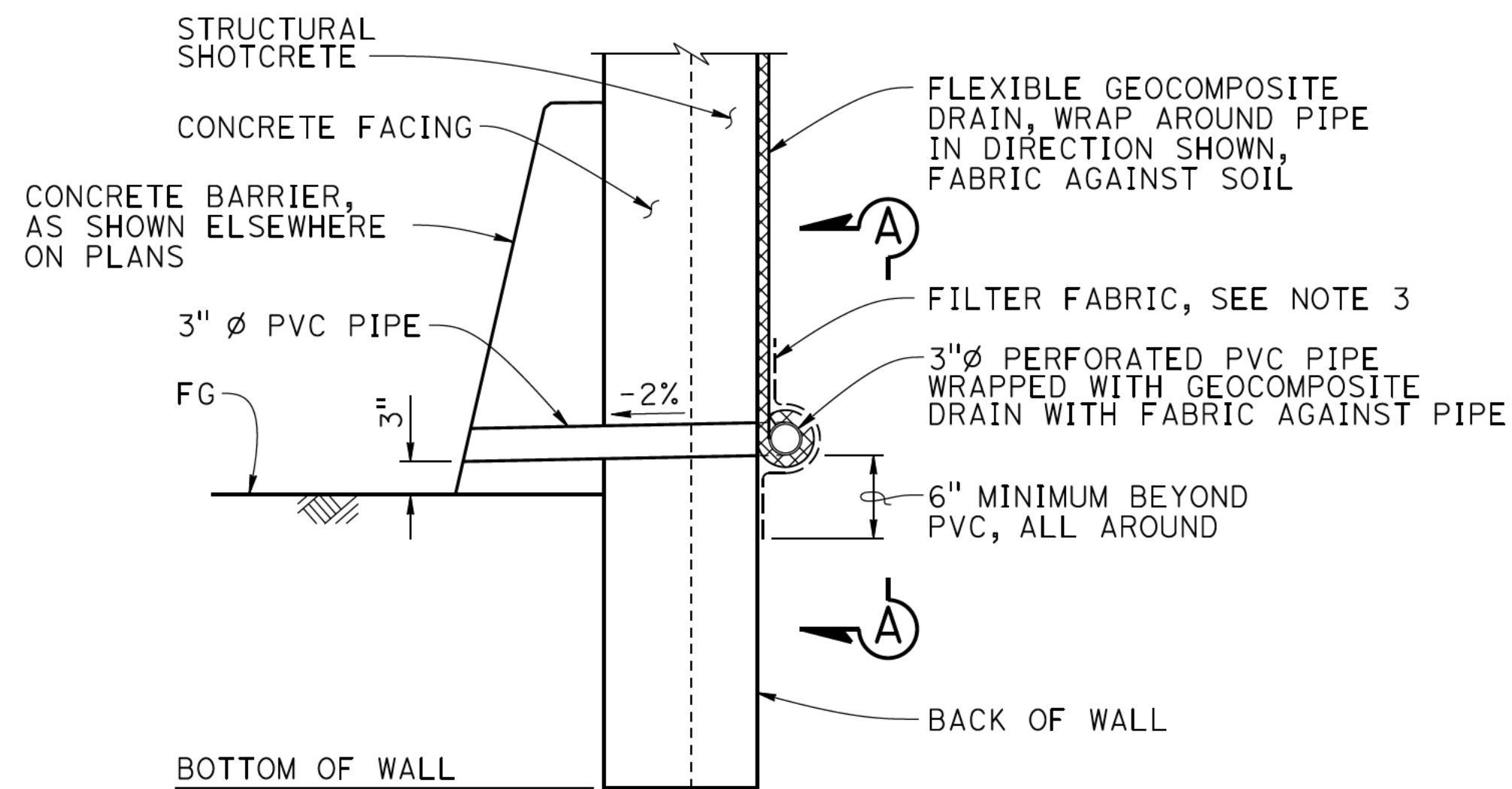
Notes:

1. Provide filter fabric where necessary to prevent soil from entering drain.
2. Center Geocomposite Drains between Soil Nail columns.
3. Geocomposite Drains must have filter fabric on soil side and wrapped around top and side edges.
4. Begin Geocomposite Drain at center line of top Soil Nail row.

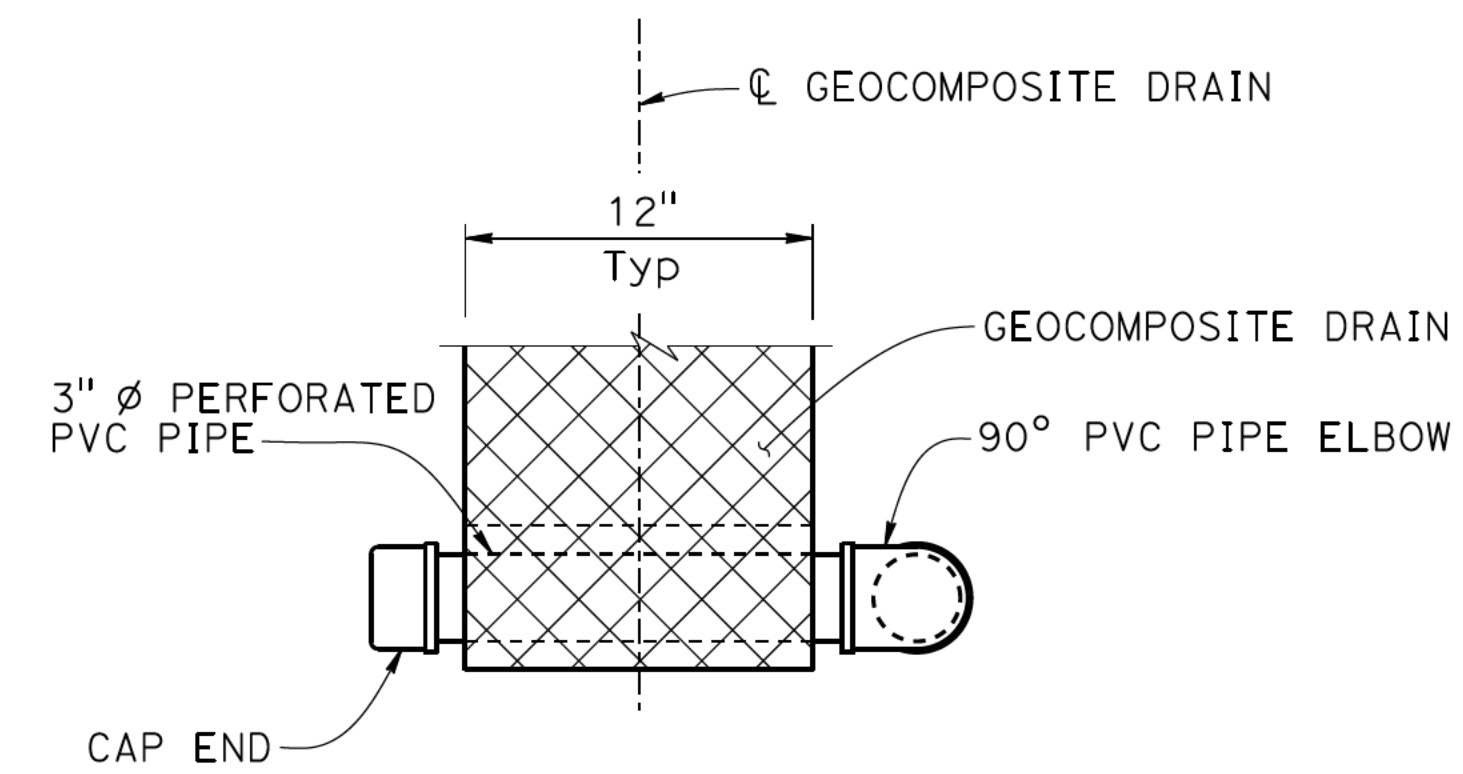


SECTION A-A
 $1" = 1'-0"$

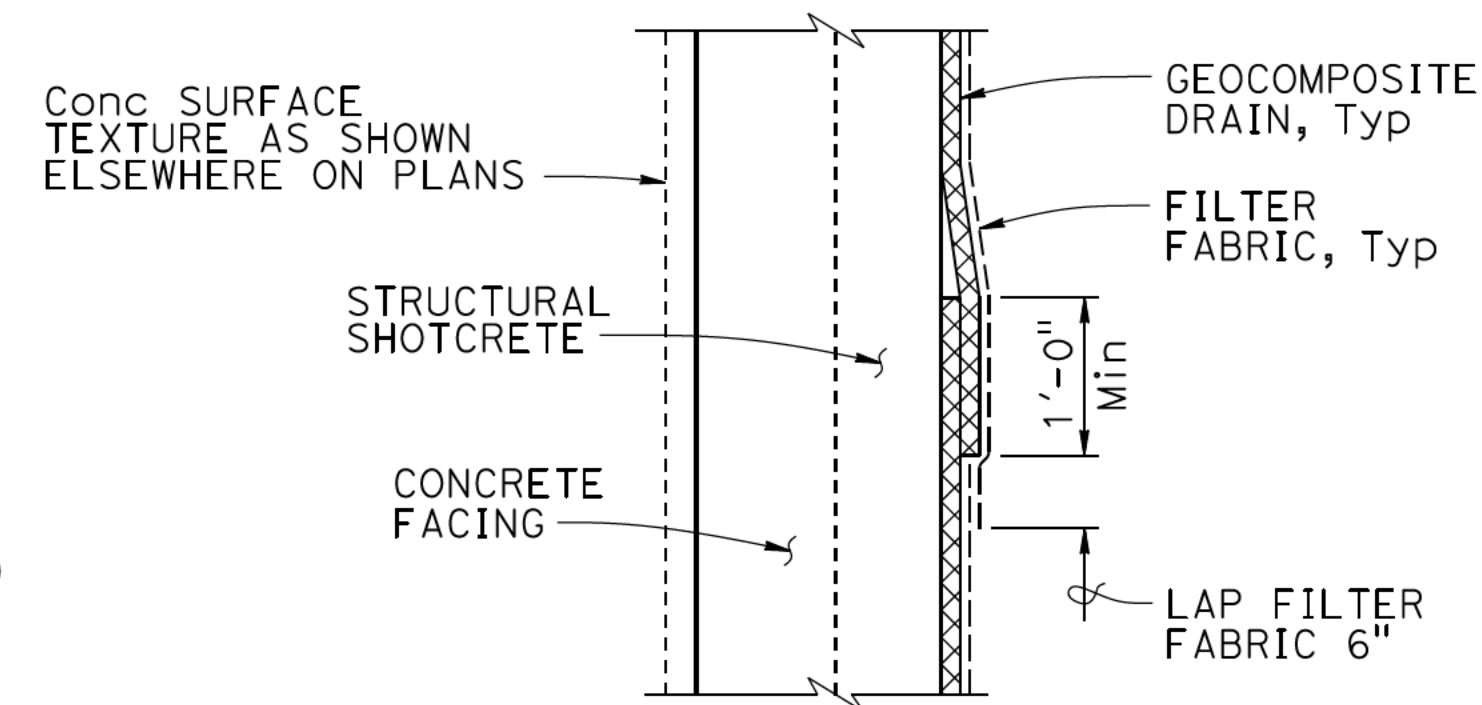
NOTE:
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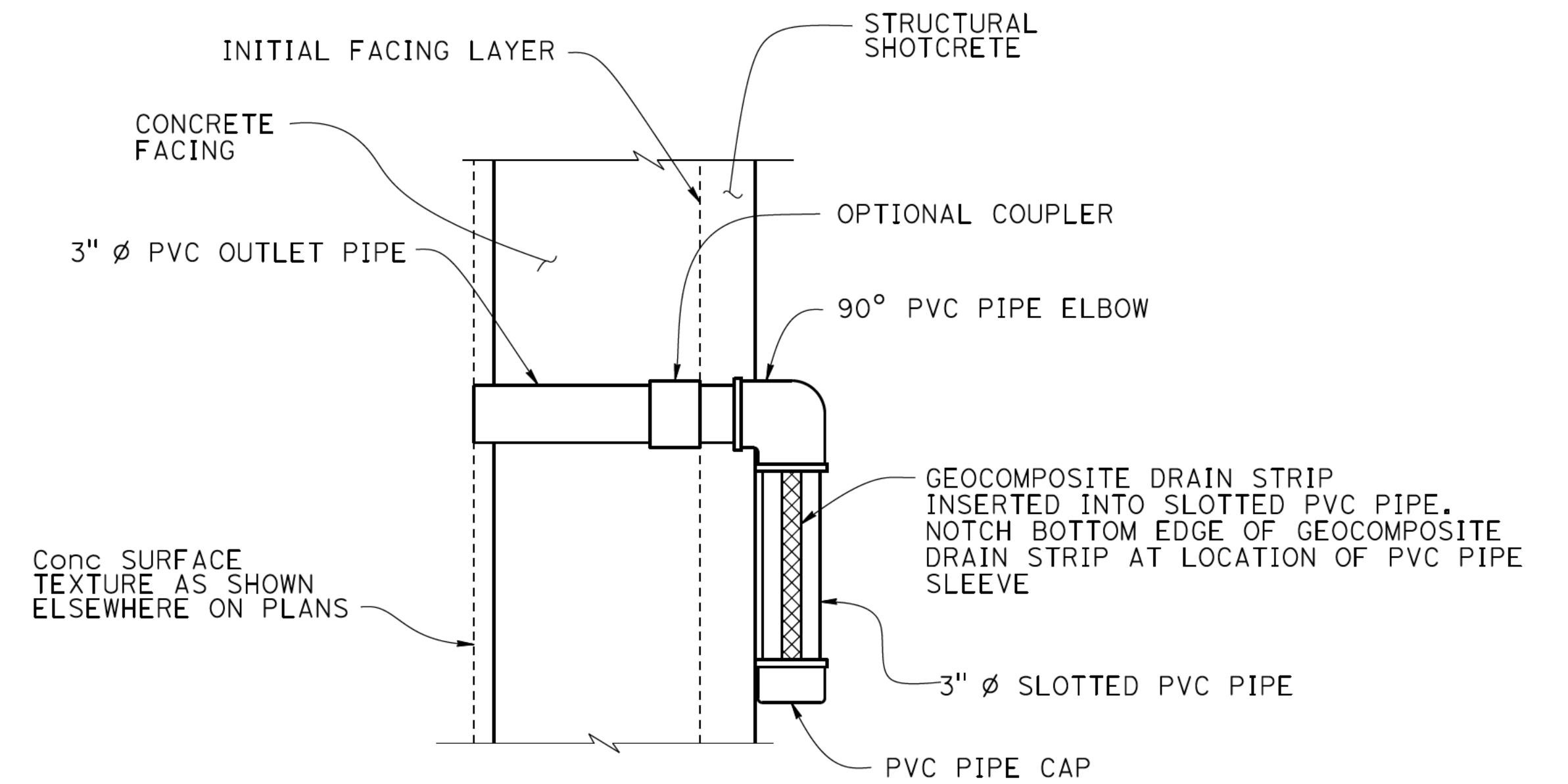
WALL DRAIN DETAIL AT WEEPHOLE
OPTION A
No scale



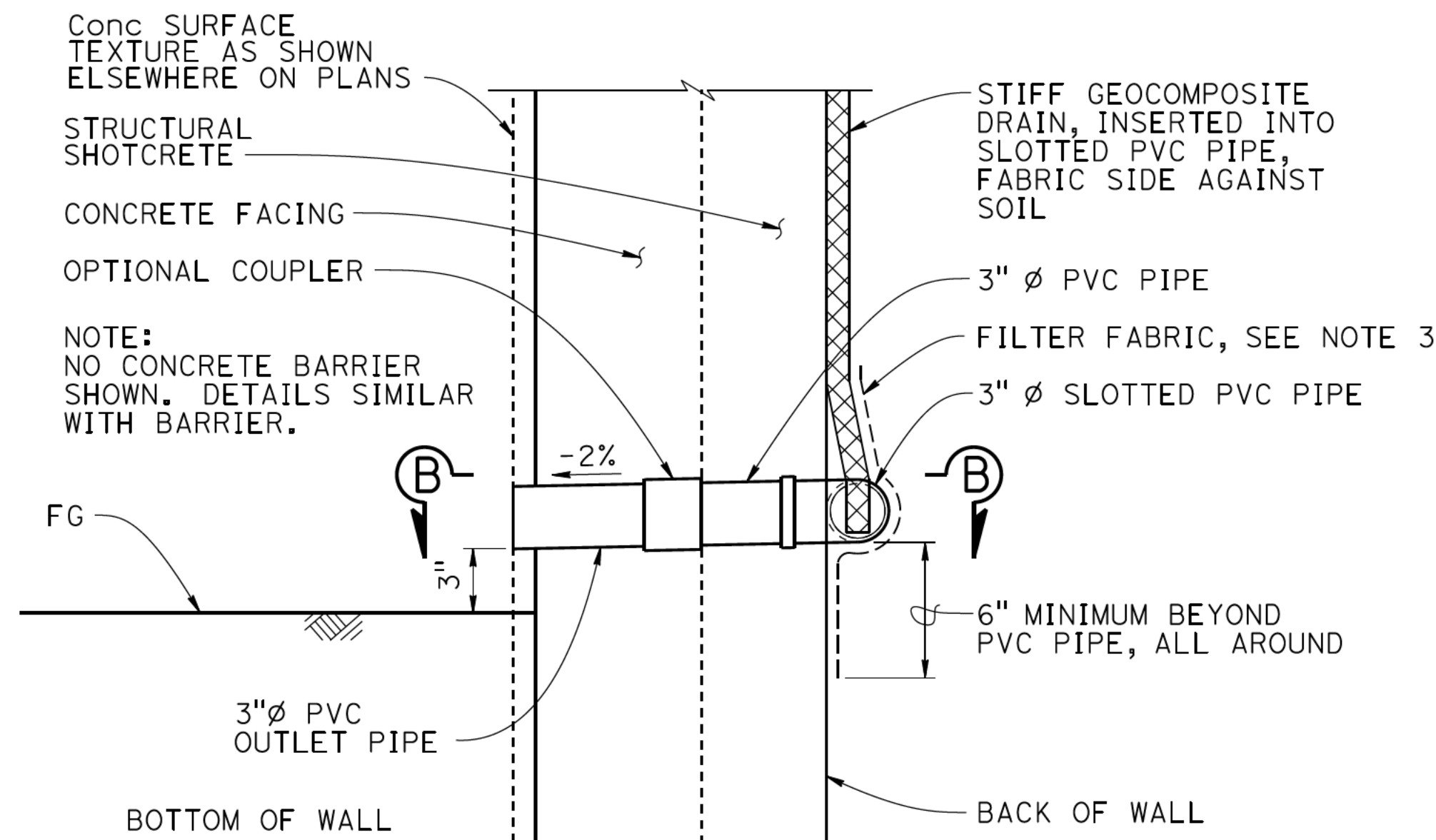
VIEW A-A
No scale



DRAIN SPLICE
NO SCALE



SECTION B-B
No Scale

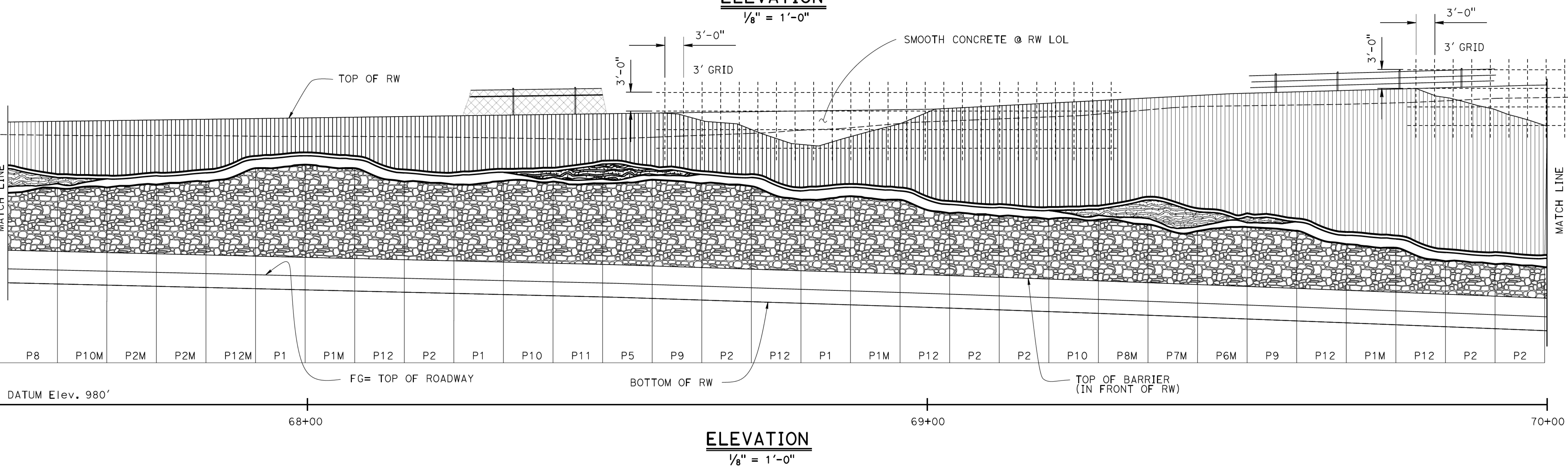
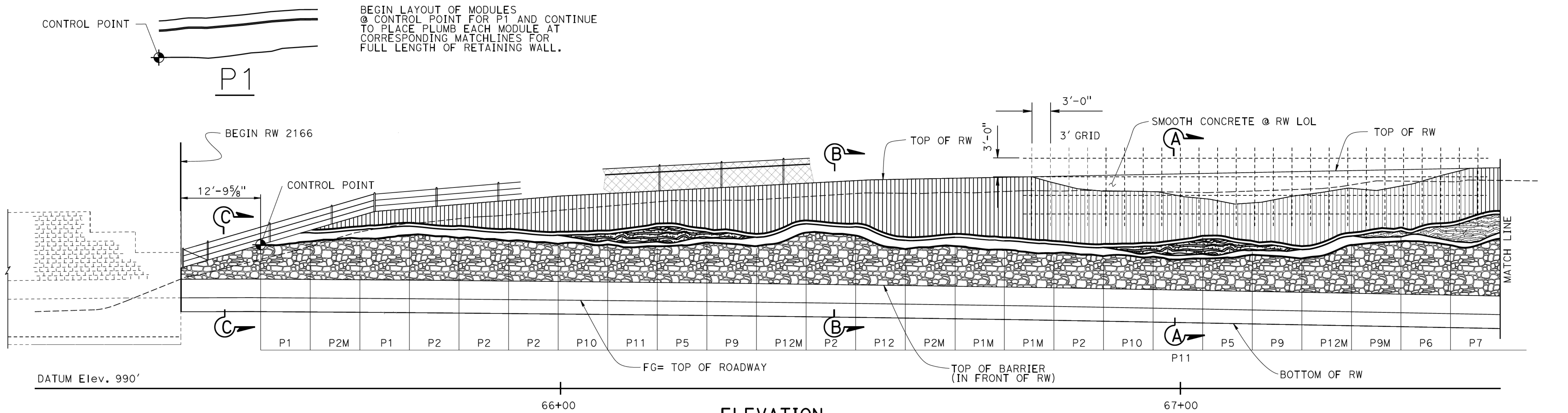


WALL DRAIN DETAIL AT WEEPHOLE
OPTION B
No scale

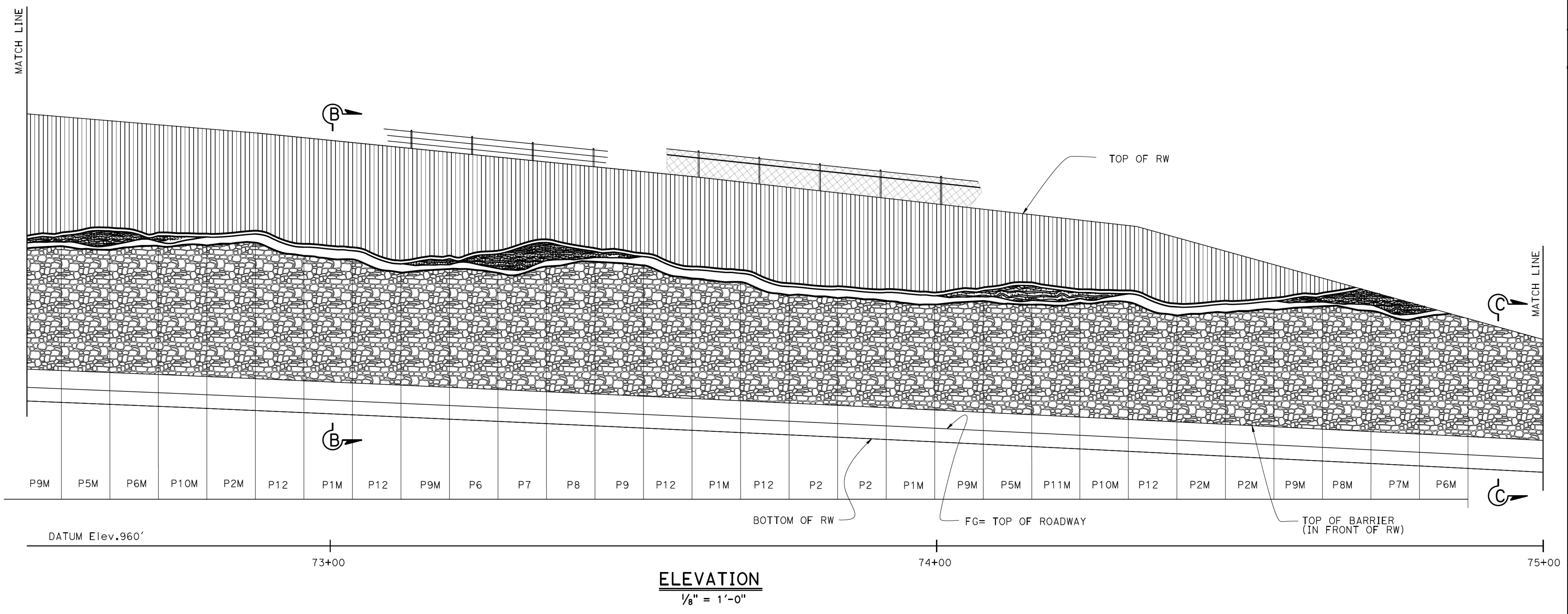
NOTES:

1. Geocomposite Drain is per Section 88 Geosynthetics of the Standard Specifications.
2. Center Geocomposite Drains between soil nail columns.
3. Provide filter fabric where necessary to prevent soil from entering drain.
4. Alternative drain outlet details may be submitted for Engineer's approval.

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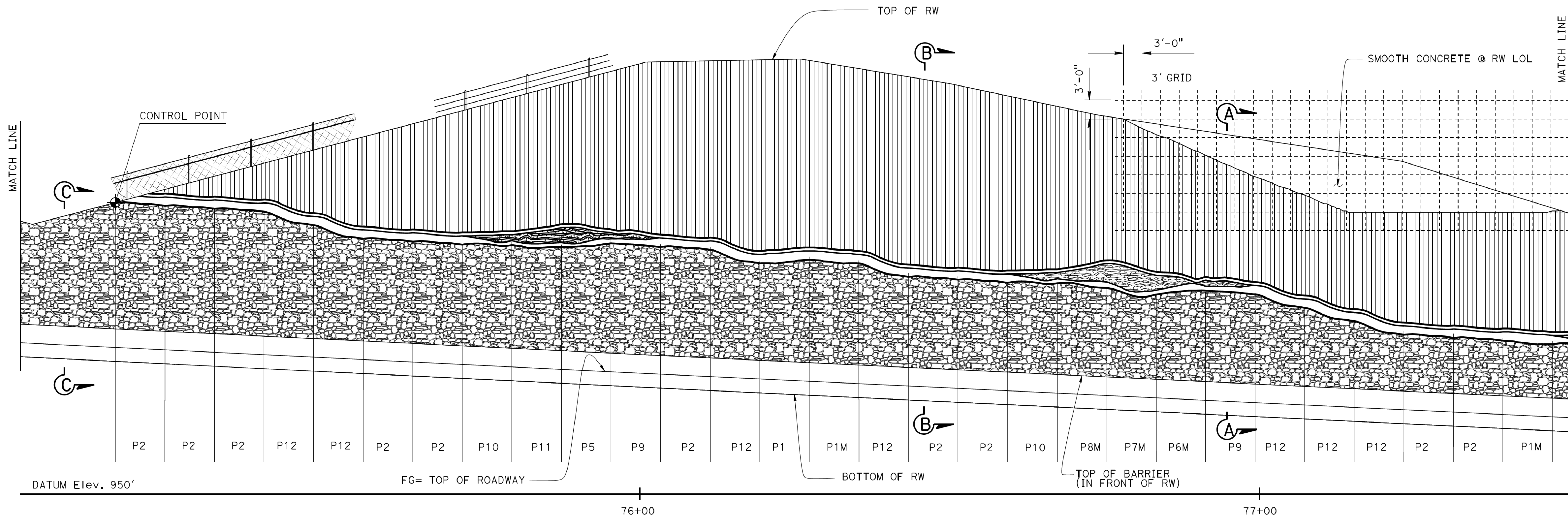


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Caltrans projects. These
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CONTROL POINT

P2

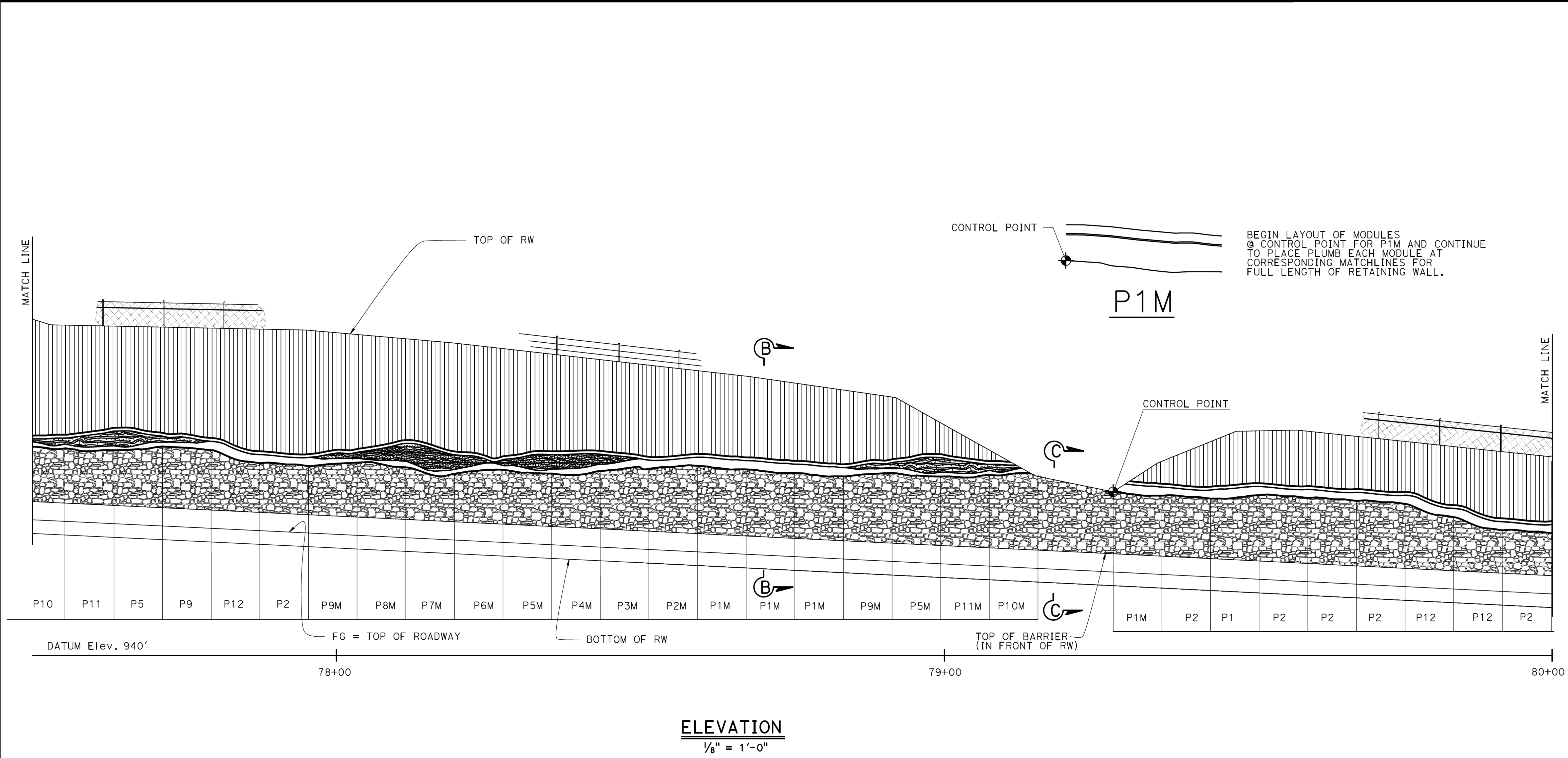
BEGIN LAYOUT OF MODULES
@ CONTROL POINT FOR P2 AND CONTINUE
TO PLACE PLUMB EACH MODULE AT
CORRESPONDING MATCHLINES FOR
FULL LENGTH OF RETAINING WALL.



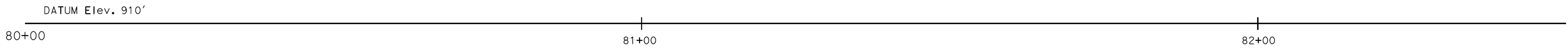
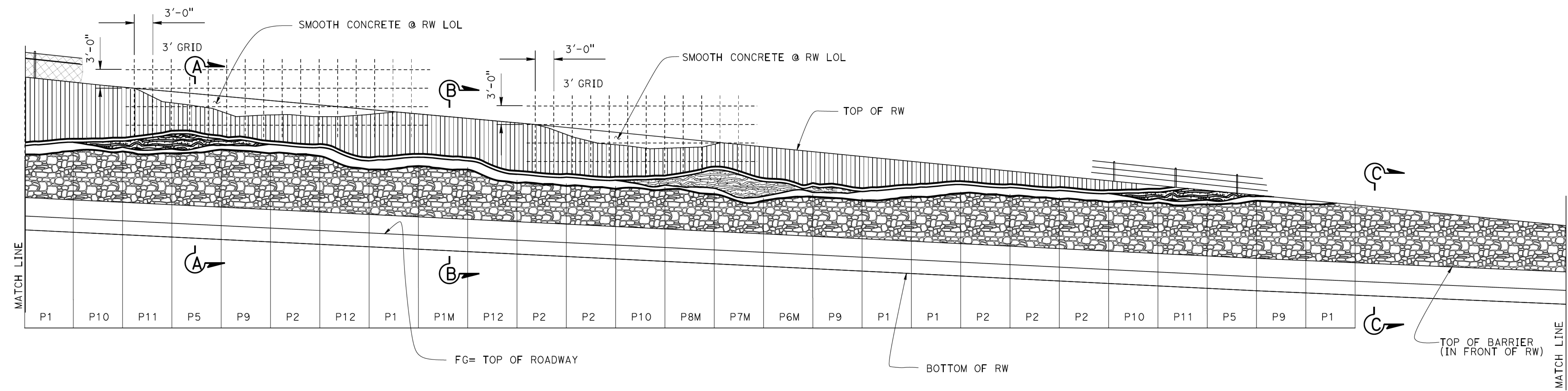
ELEVATION

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

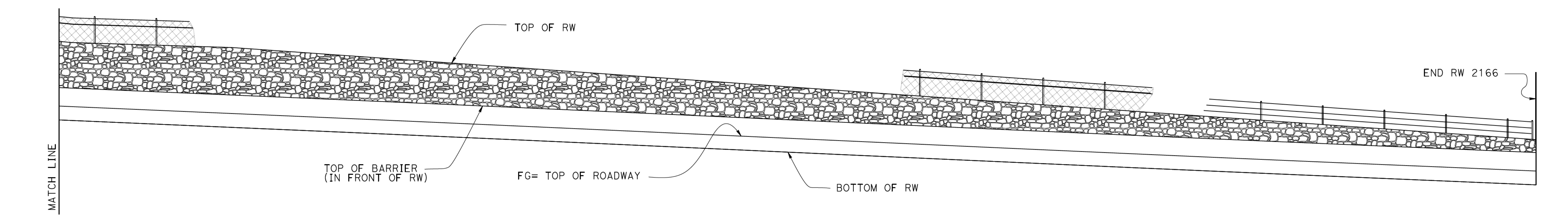
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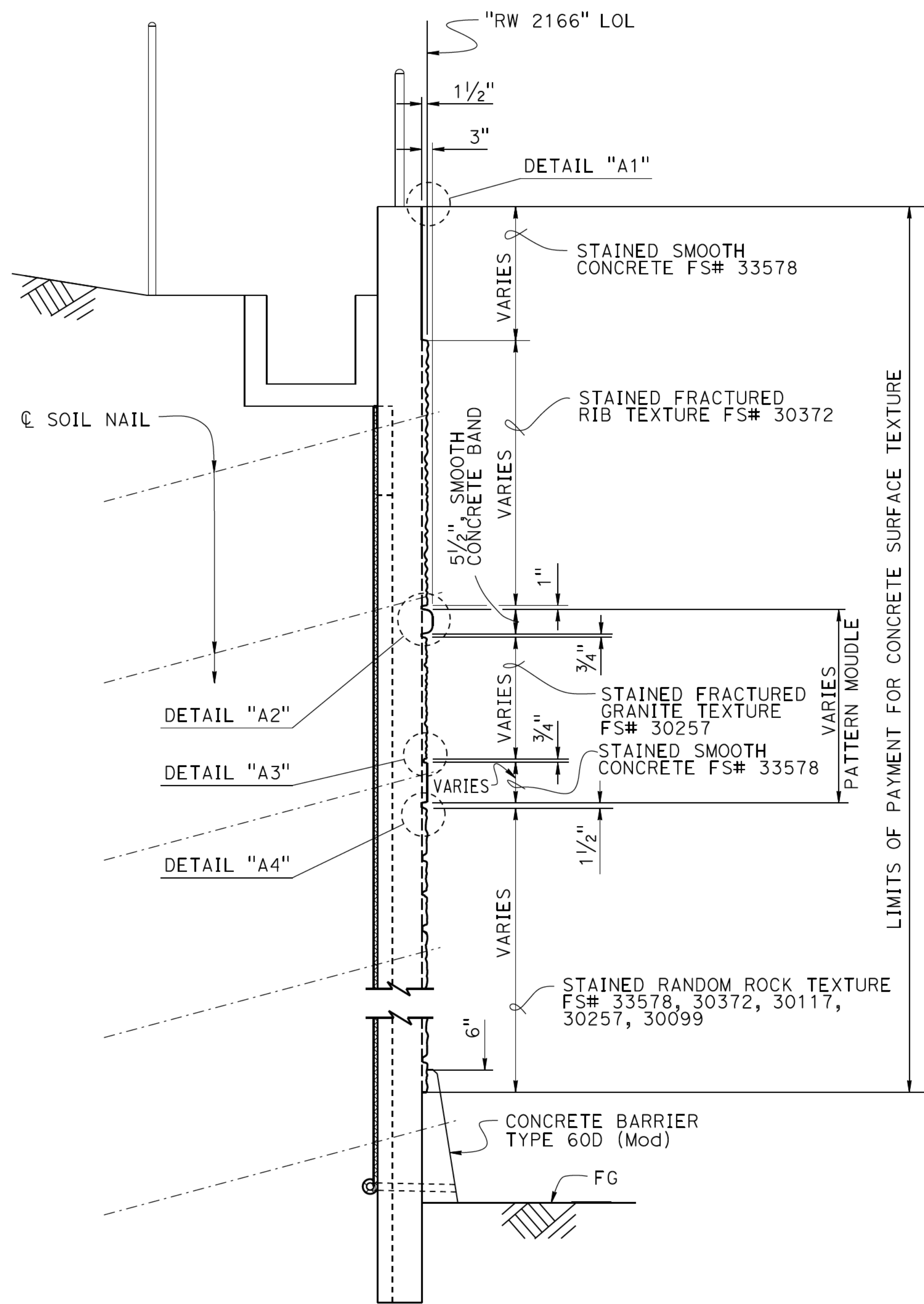


ELEVATION
 $\frac{1}{8}" = 1'-0"$

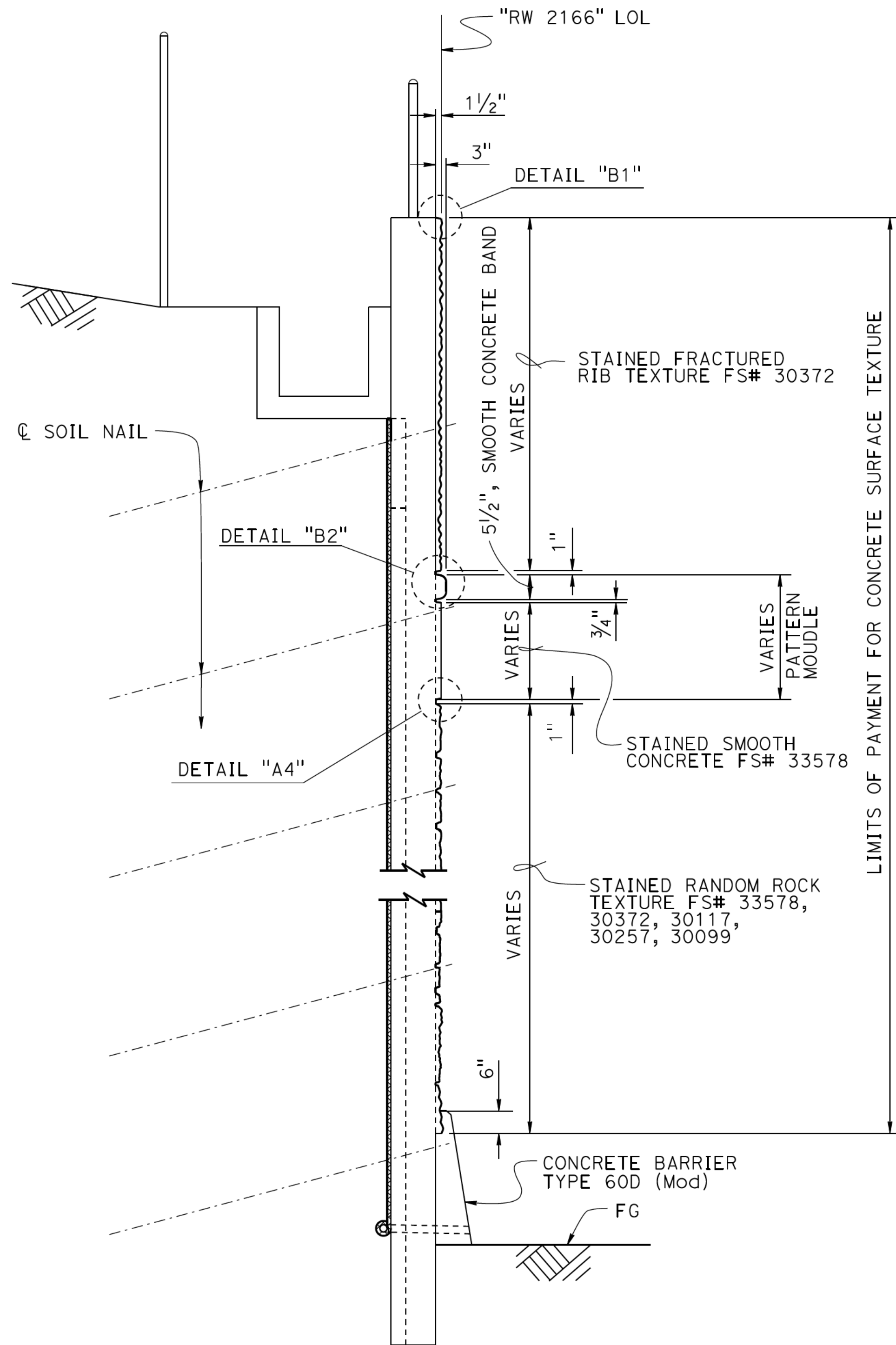


ELEVATION
 $\frac{1}{8}" = 1'-0"$

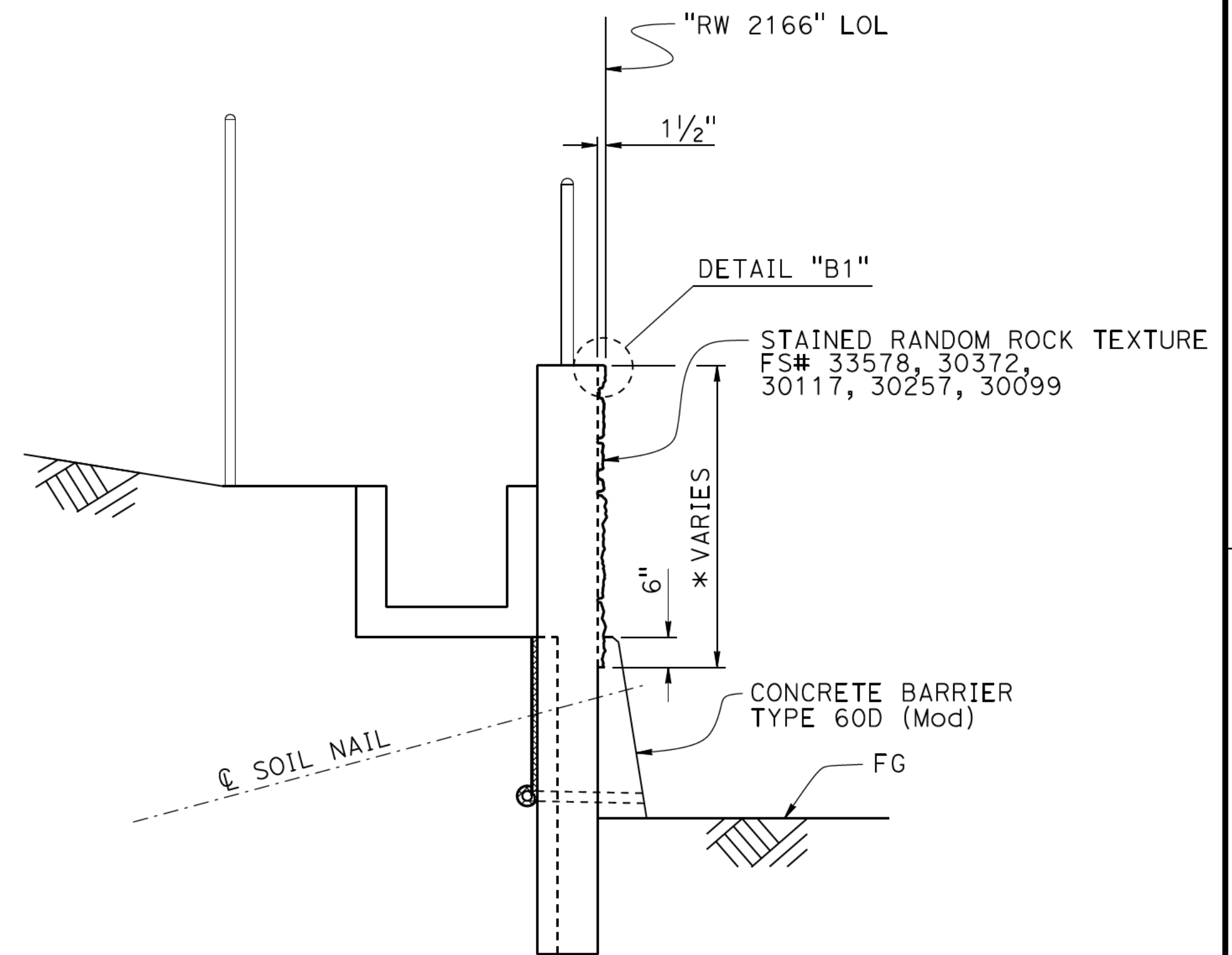
NOTE:
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SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

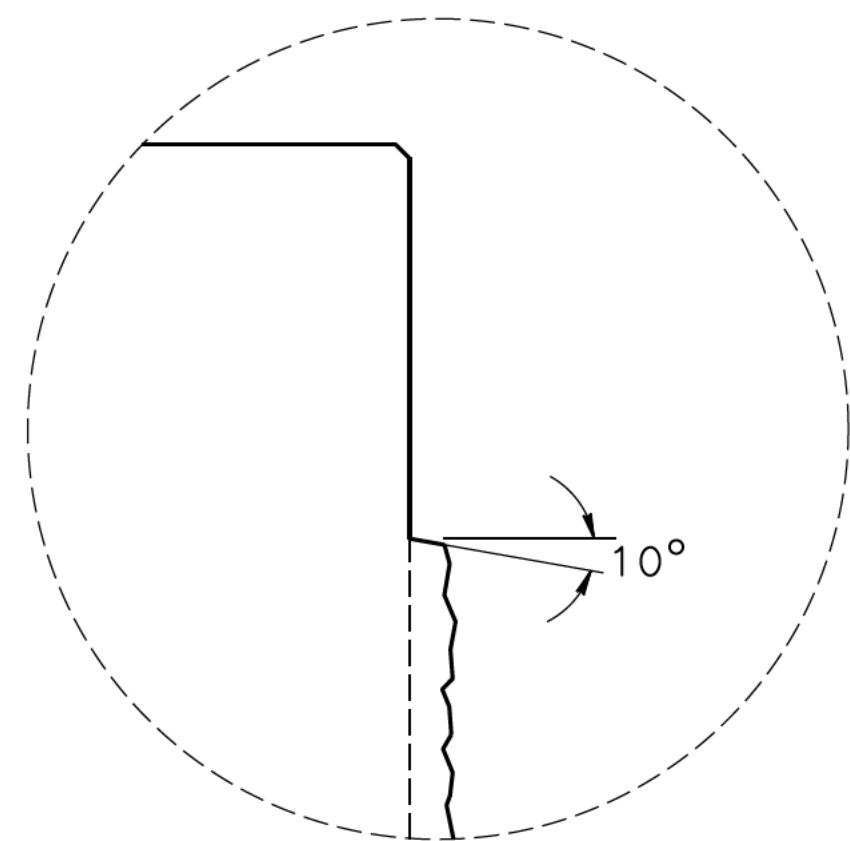


SECTION C-C
NO SCALE

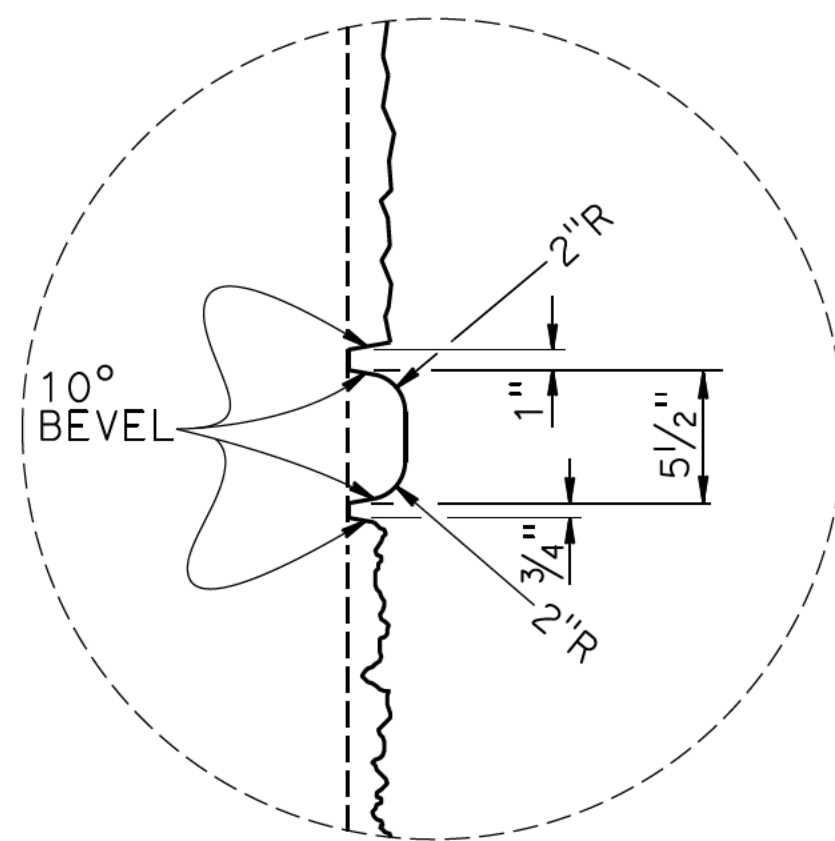
Notes:

1. For "DETAIL A1", "DETAIL A2", "DETAIL A3", "DETAIL A4", "DETAIL B1" and "DETAIL B2", see "ARCHITECTURAL DETAILS NO. 8" sheet.
2. "FS#" is Federal Standard color number.

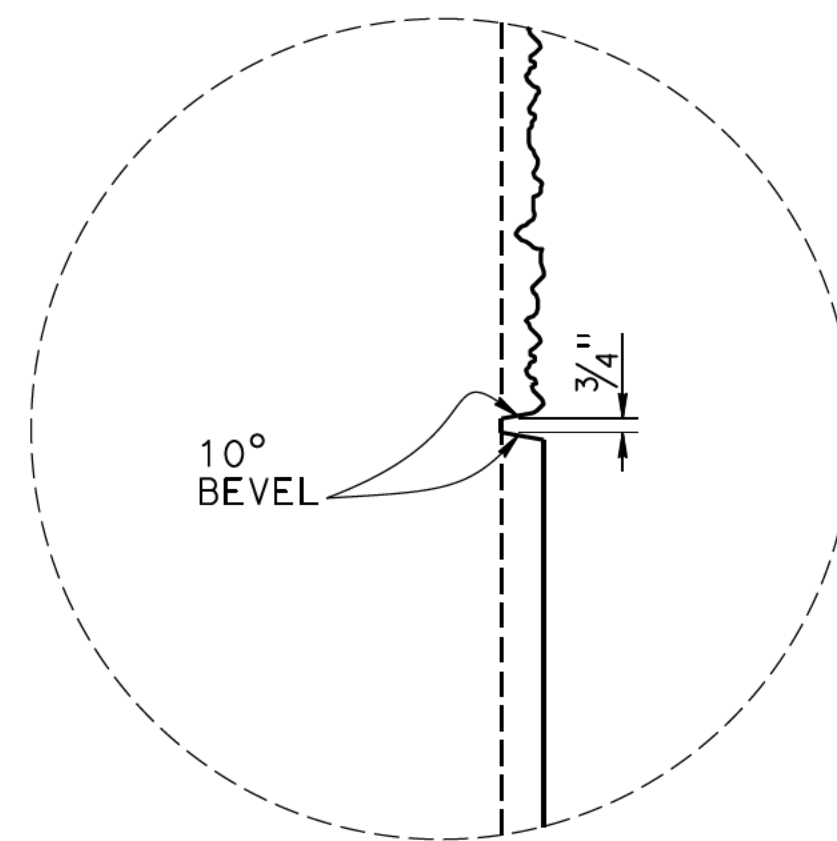
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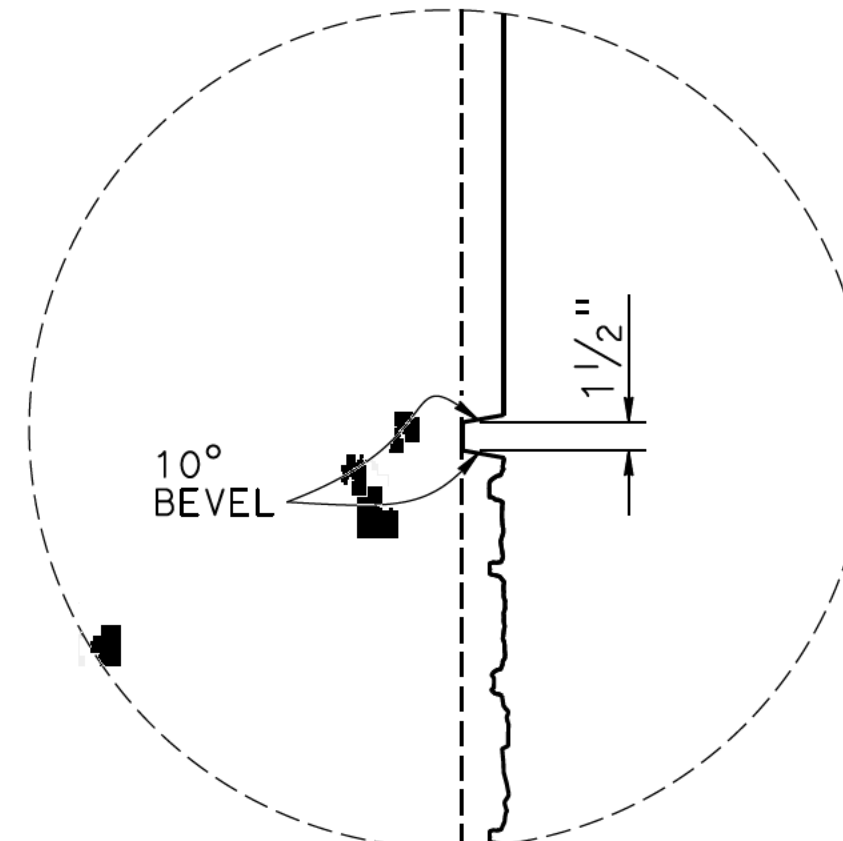
DETAIL A1
NO SCALE



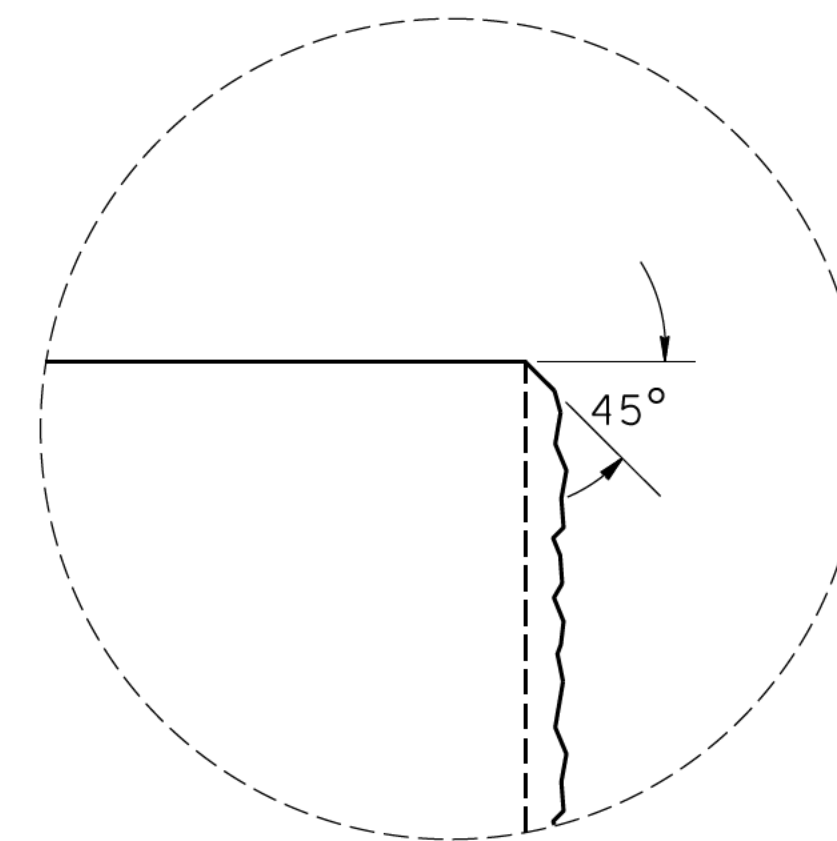
DETAIL A2
NO SCALE



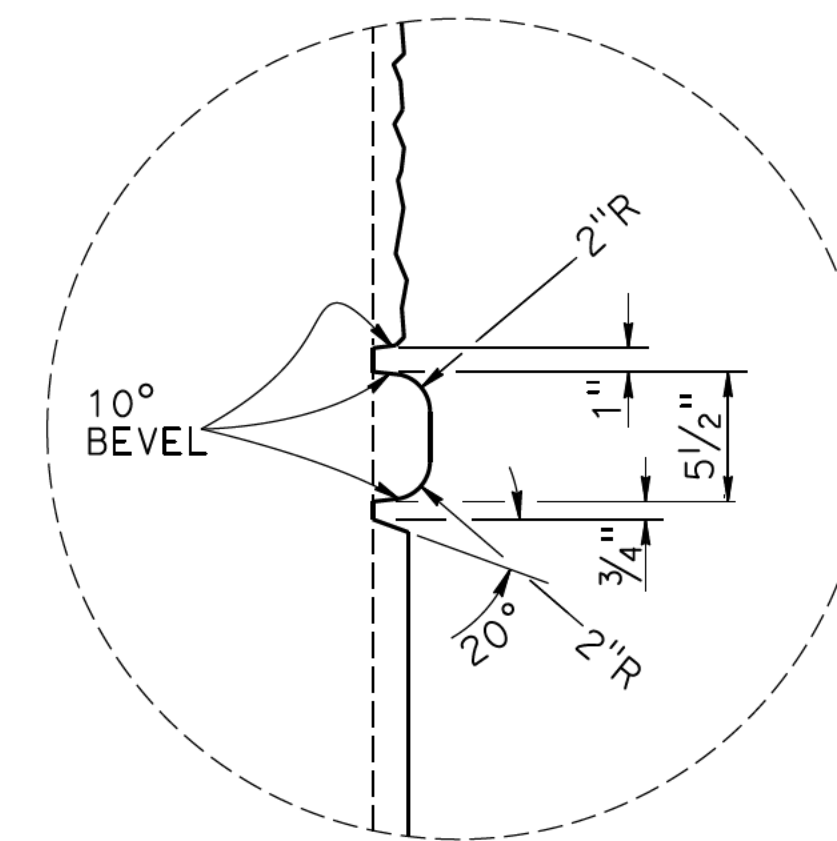
DETAIL A3
NO SCALE



DETAIL A4
NO SCALE

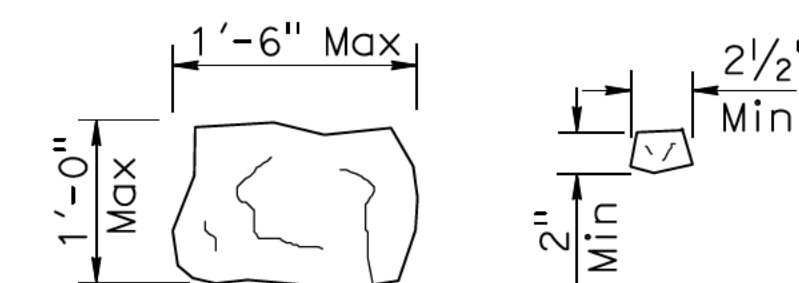


DETAIL B1
NO SCALE

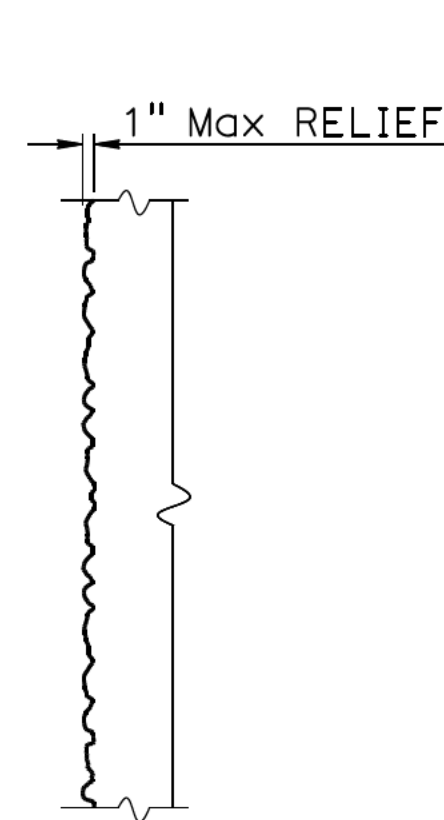


DETAIL B2
NO SCALE

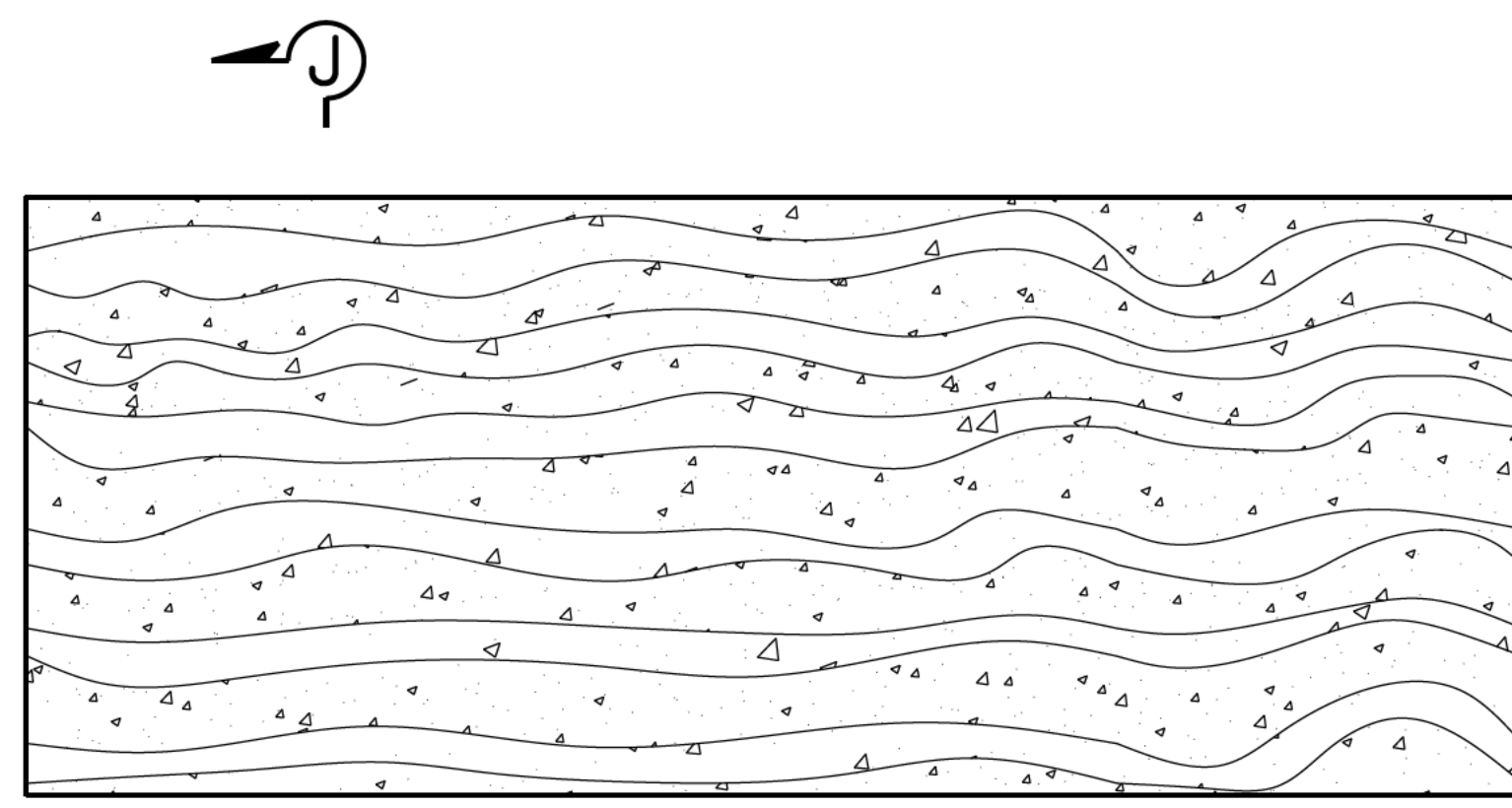
NOTE:
Seamless Random Rock pattern to have a minimum of 2 to a maximum of 4 match points (denoted by "M") for each side (top to bottom and side to side).



ROCK SIZE

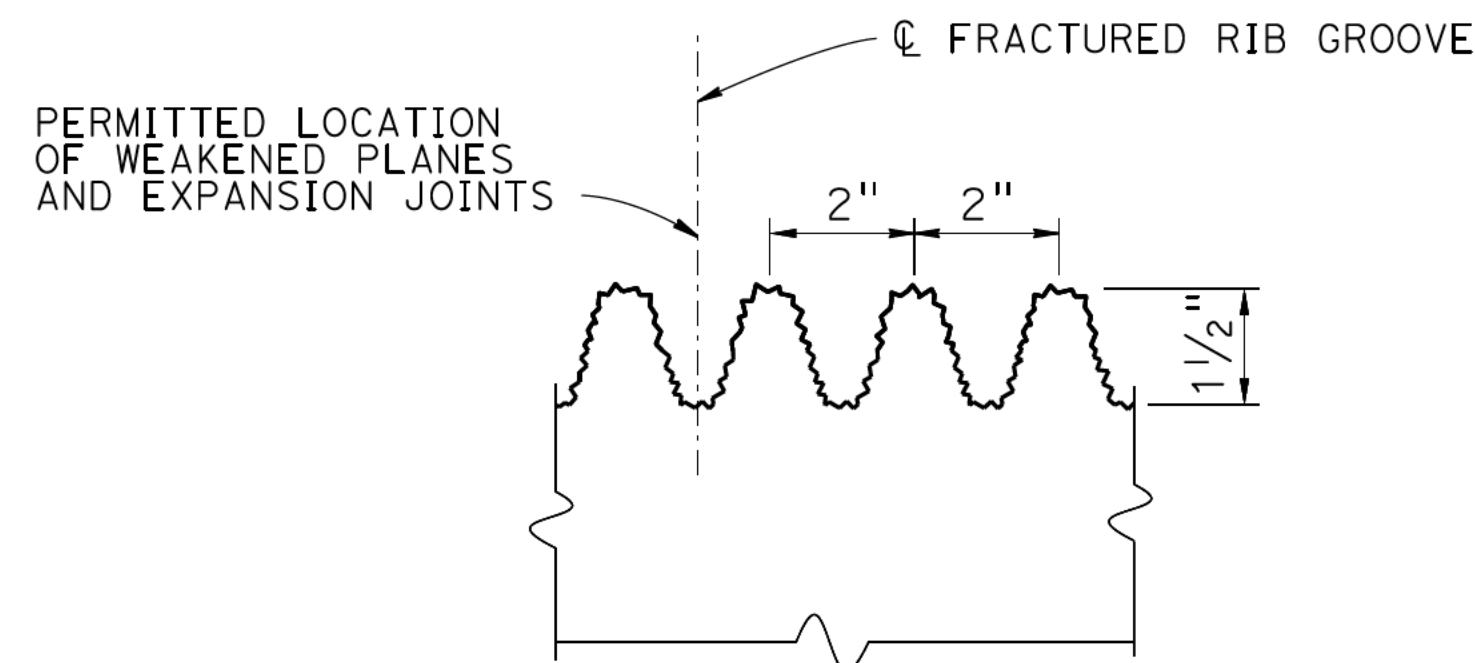


SECTION J-J

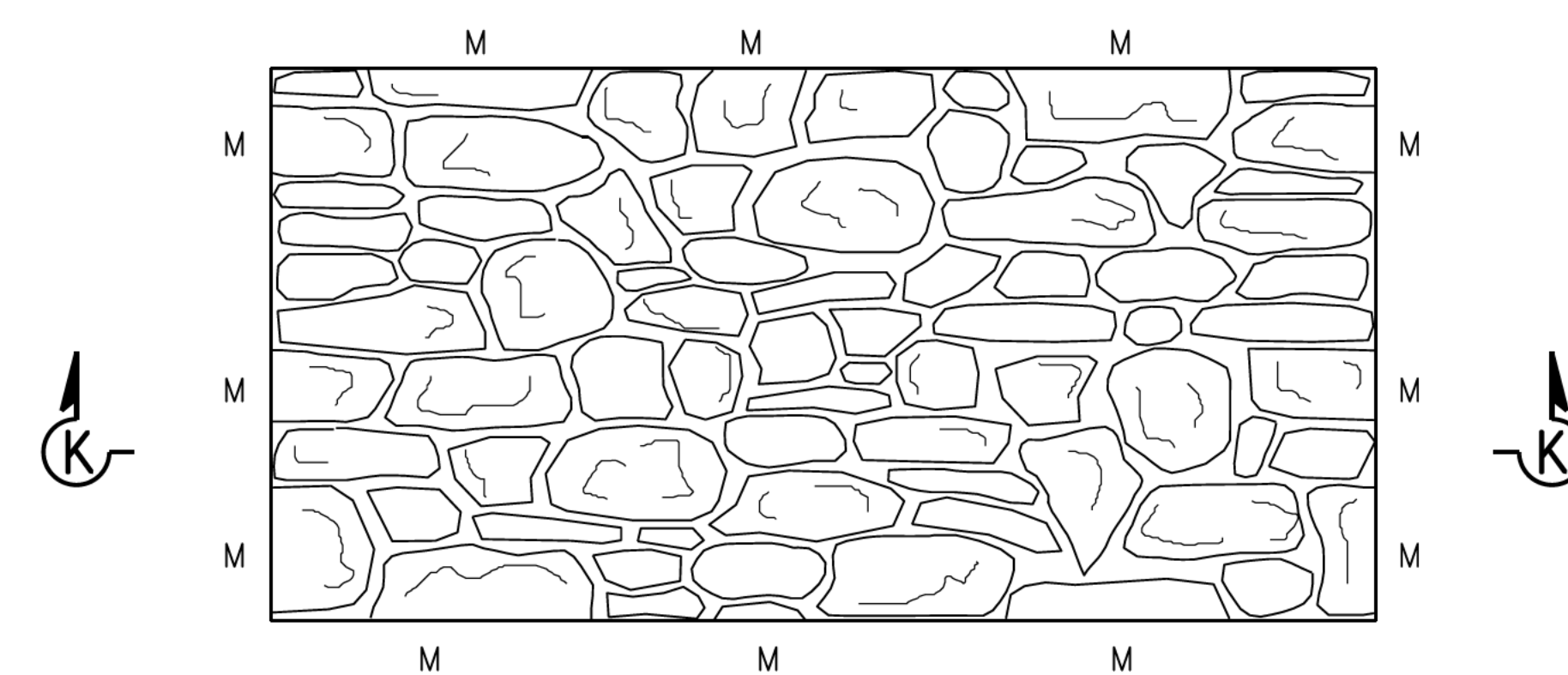


ELEVATION

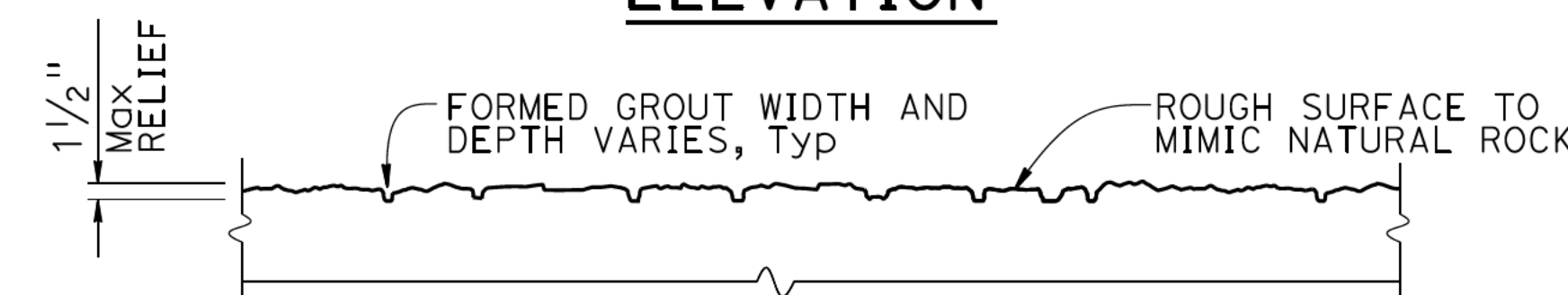
FRACTURED GRANITE TEXTURE
NO SCALE



FRACTURED RIB TEXTURE - SECTION
NO SCALE



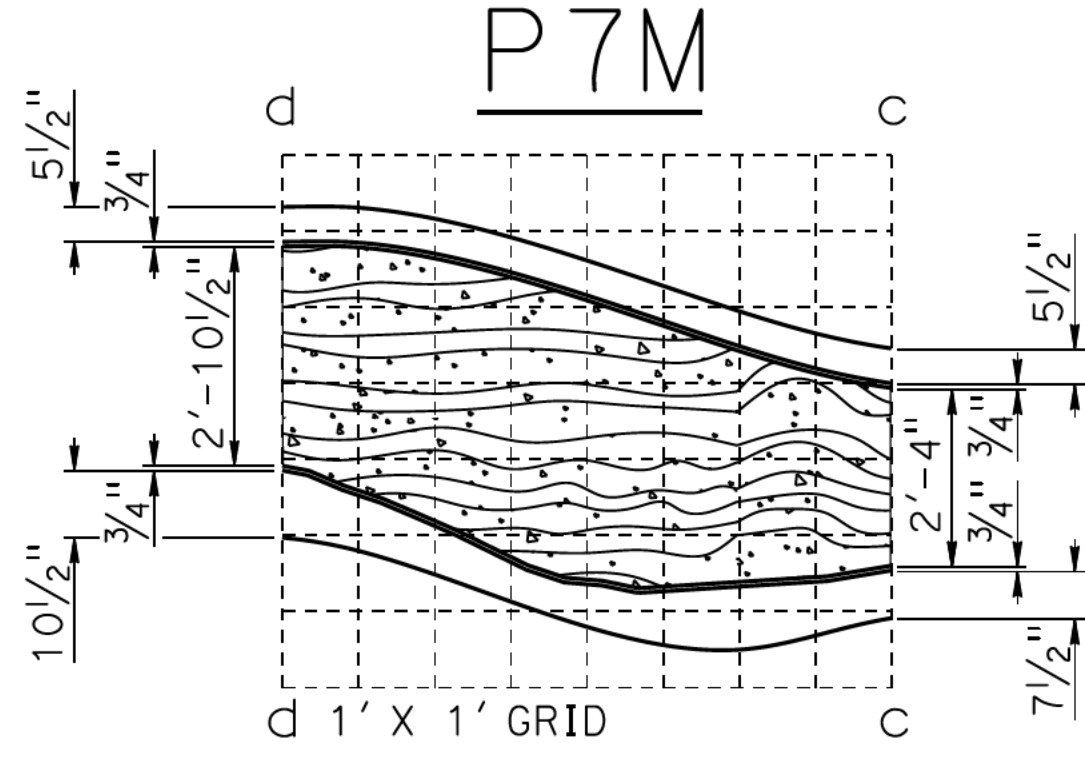
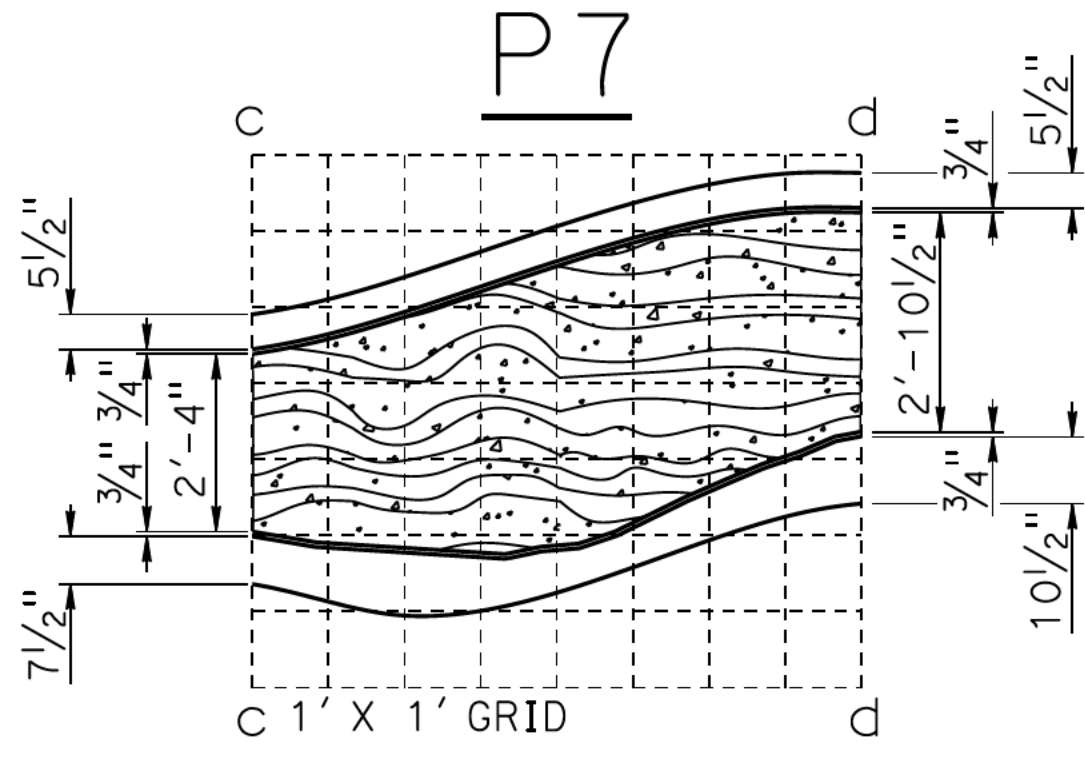
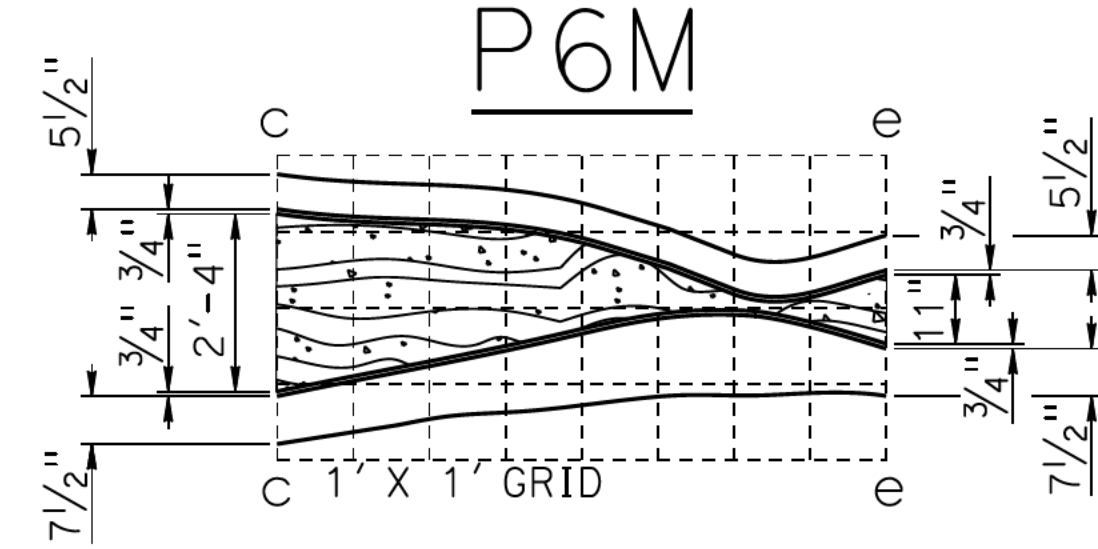
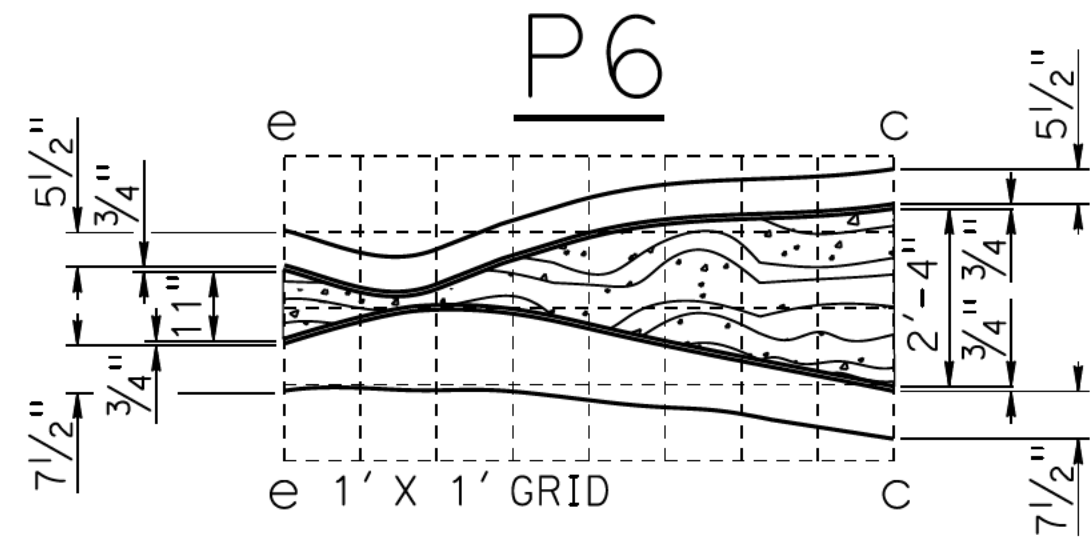
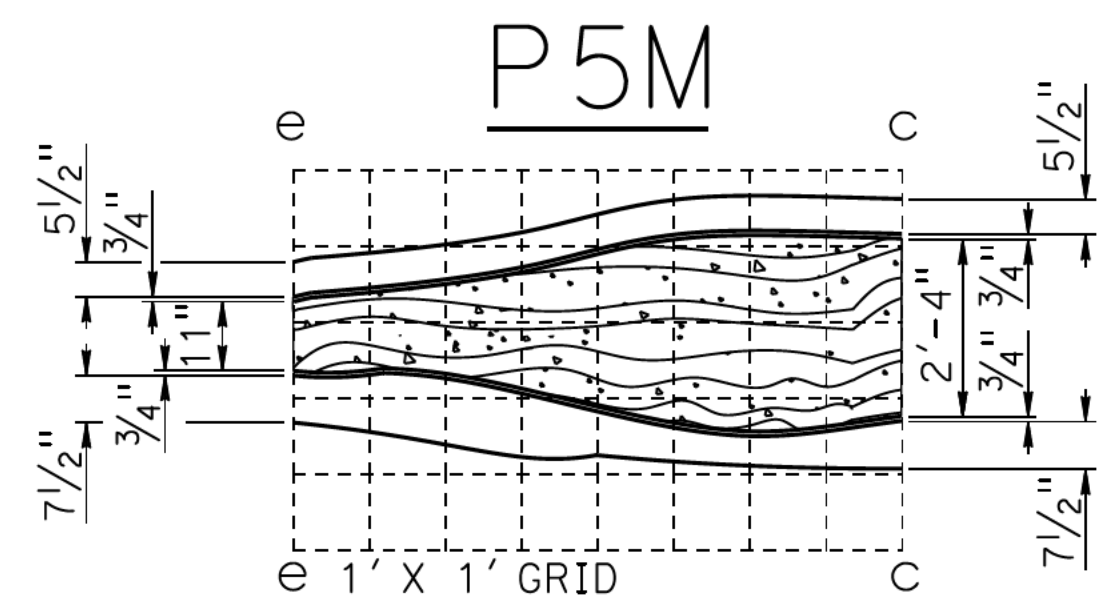
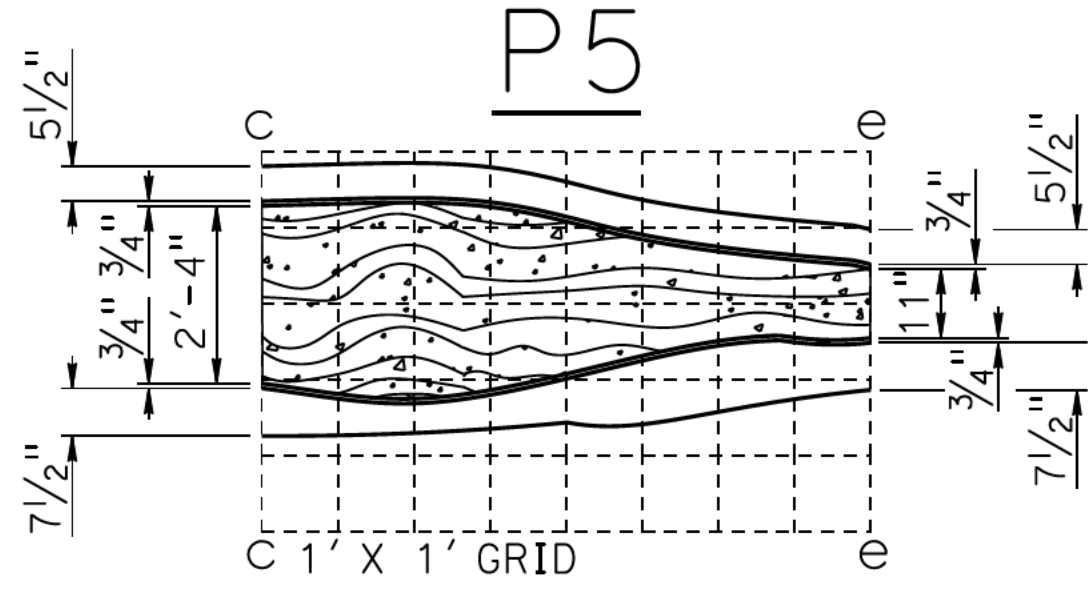
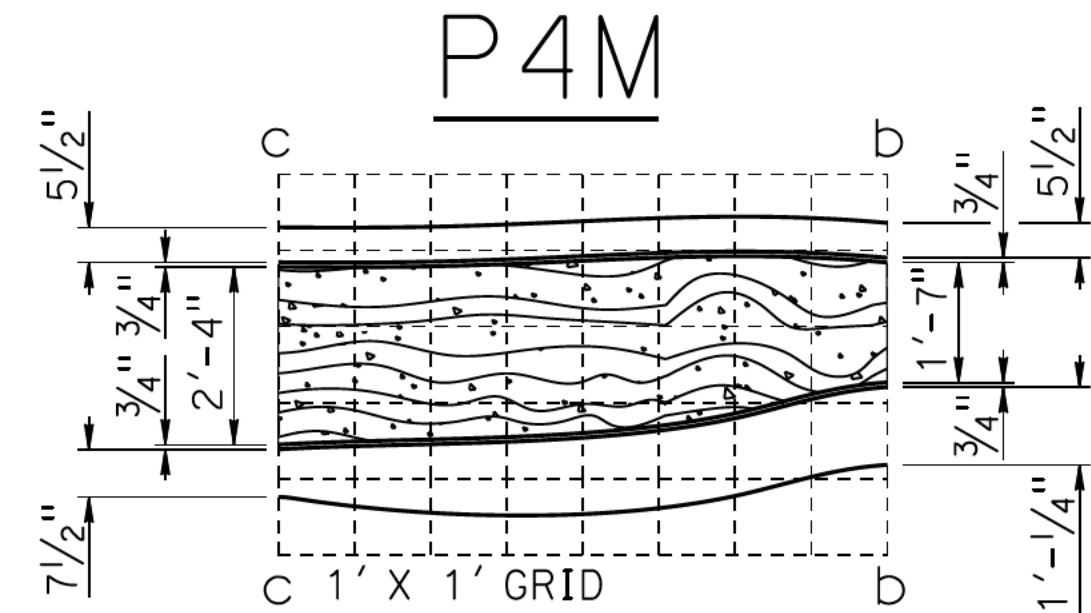
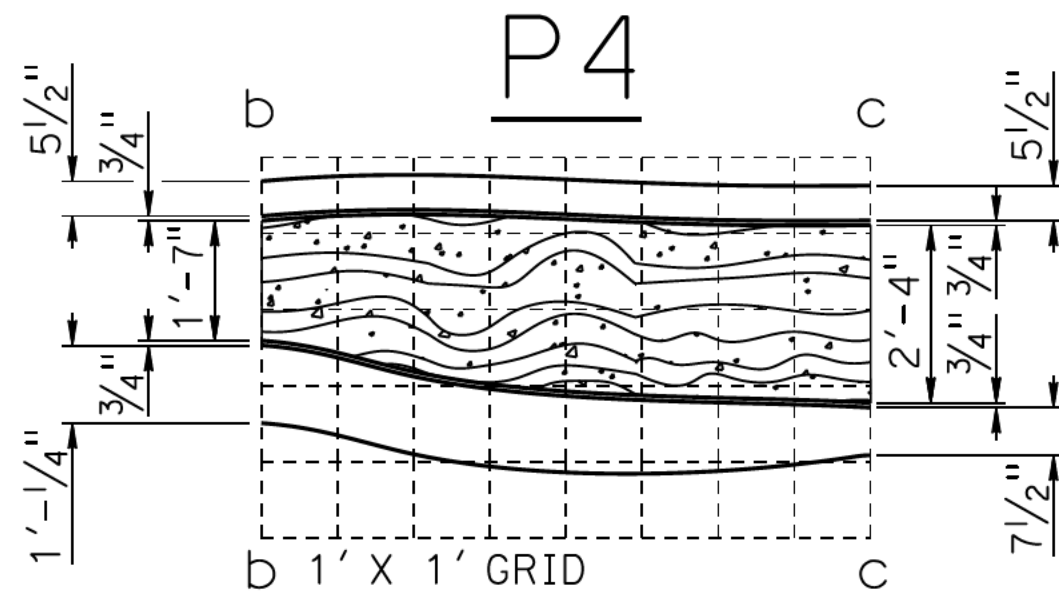
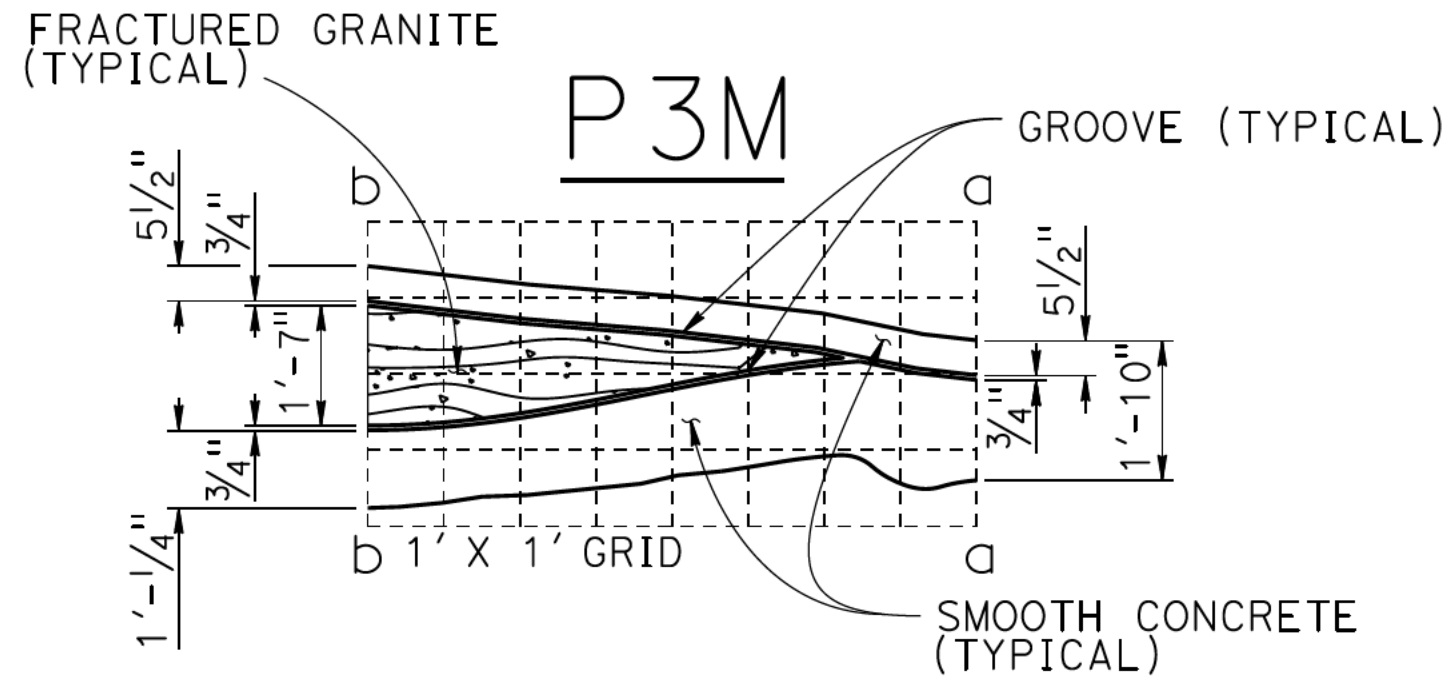
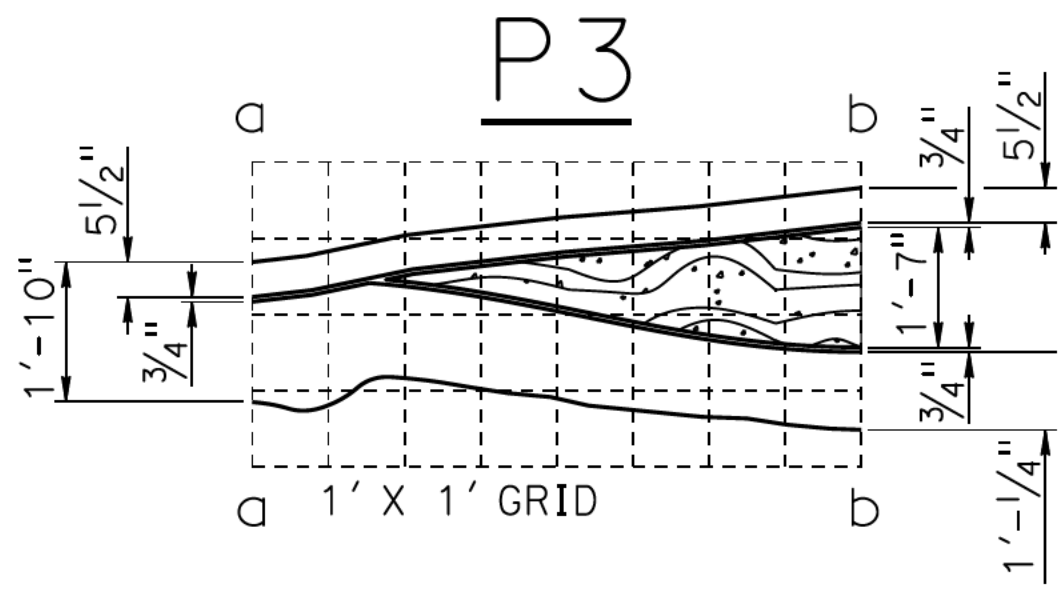
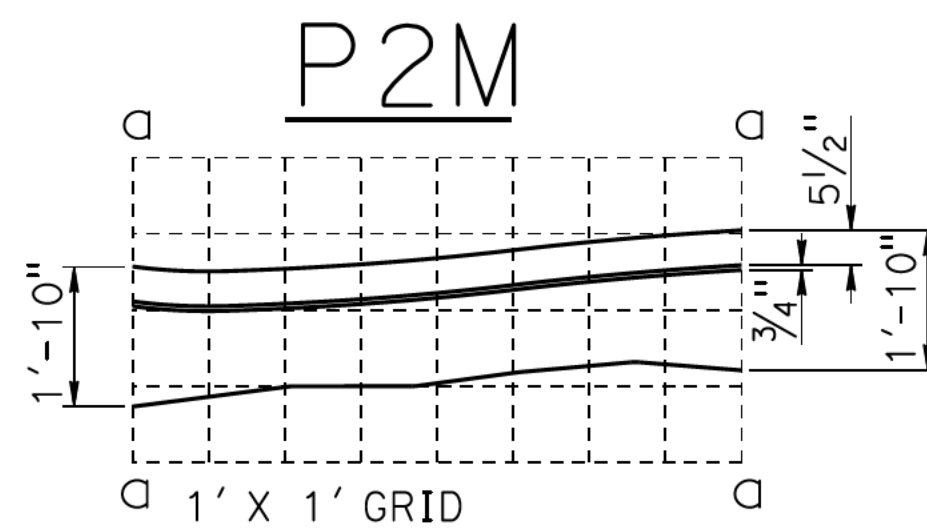
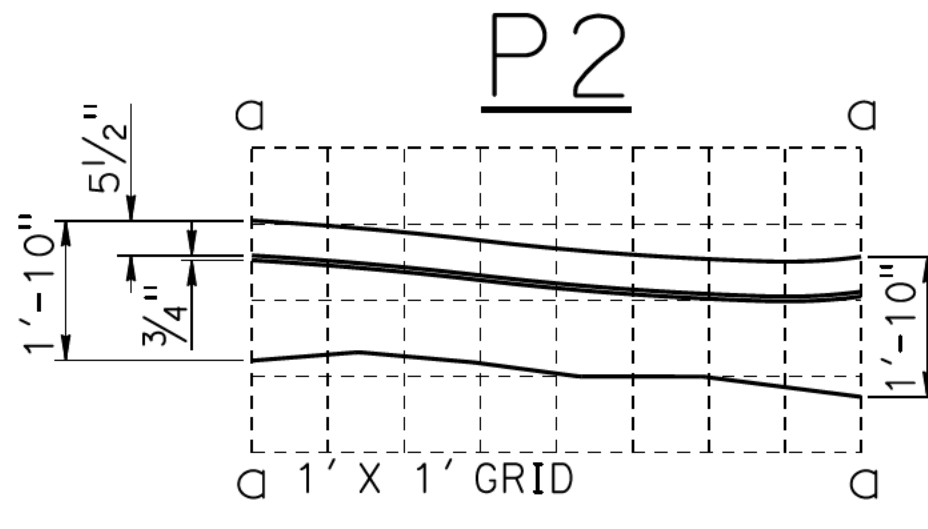
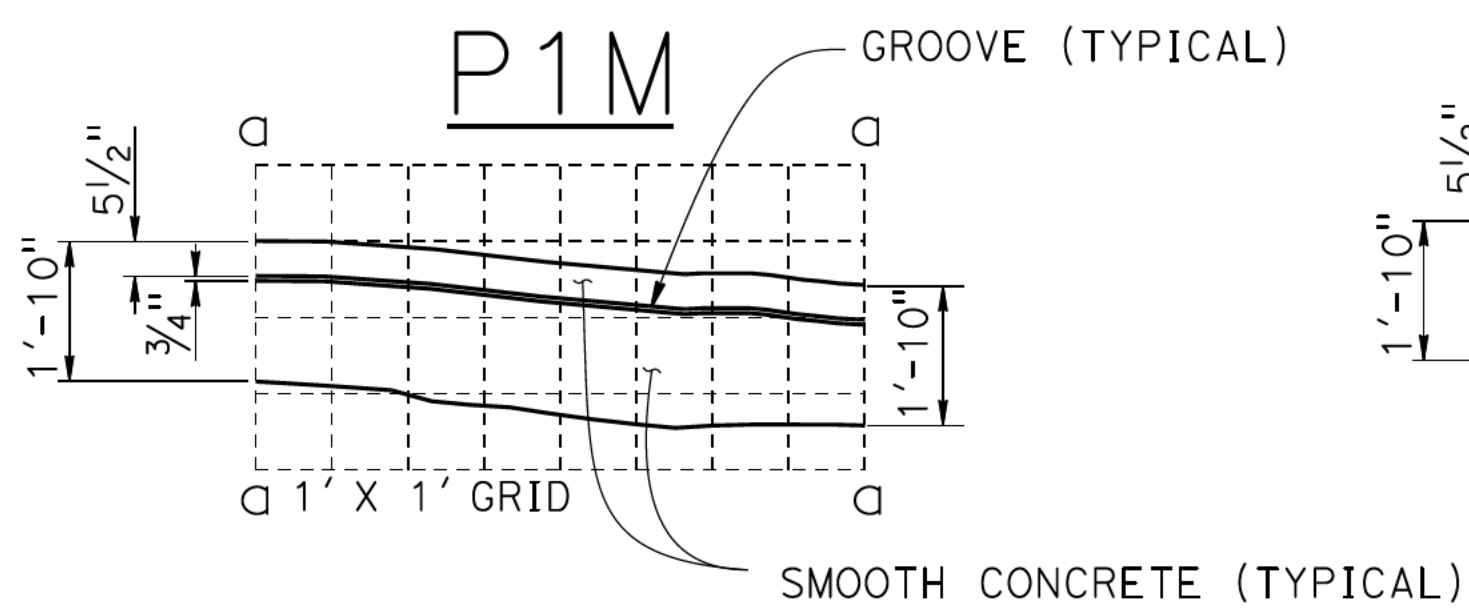
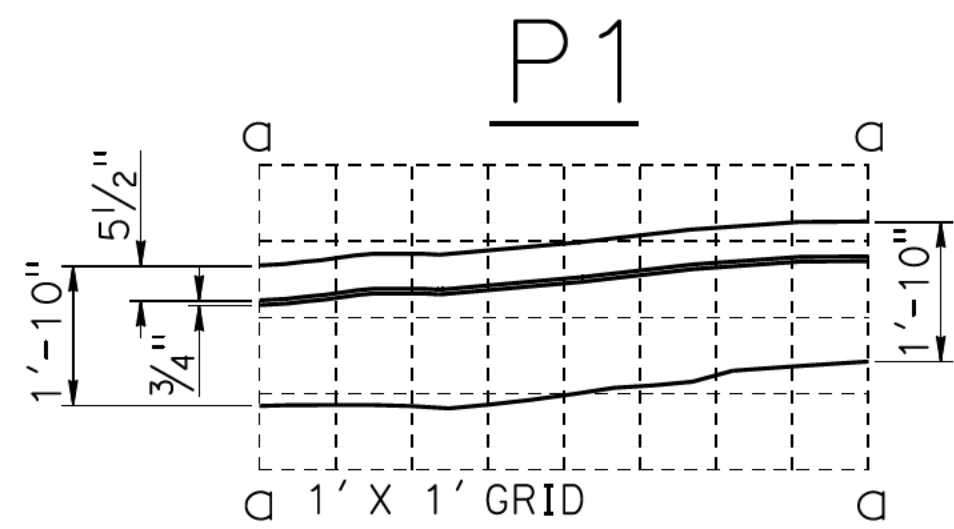
ELEVATION



SECTION K-K

RANDOM ROCK TEXTURE
NO SCALE

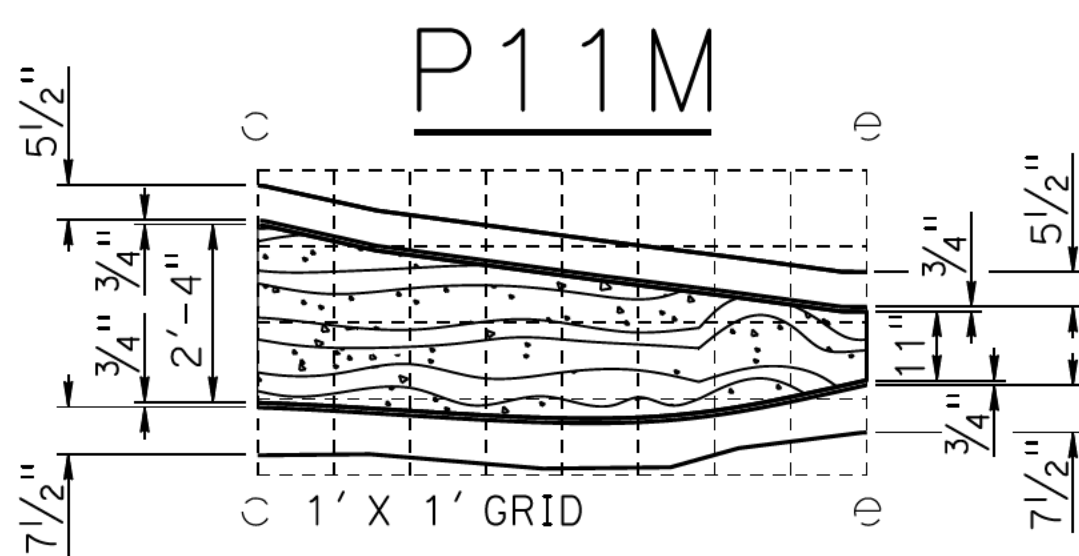
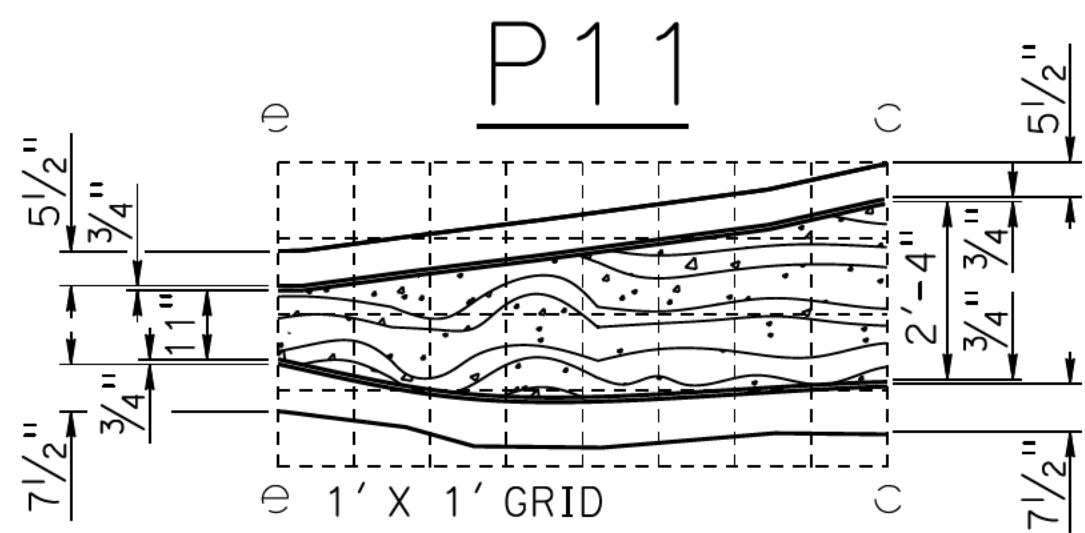
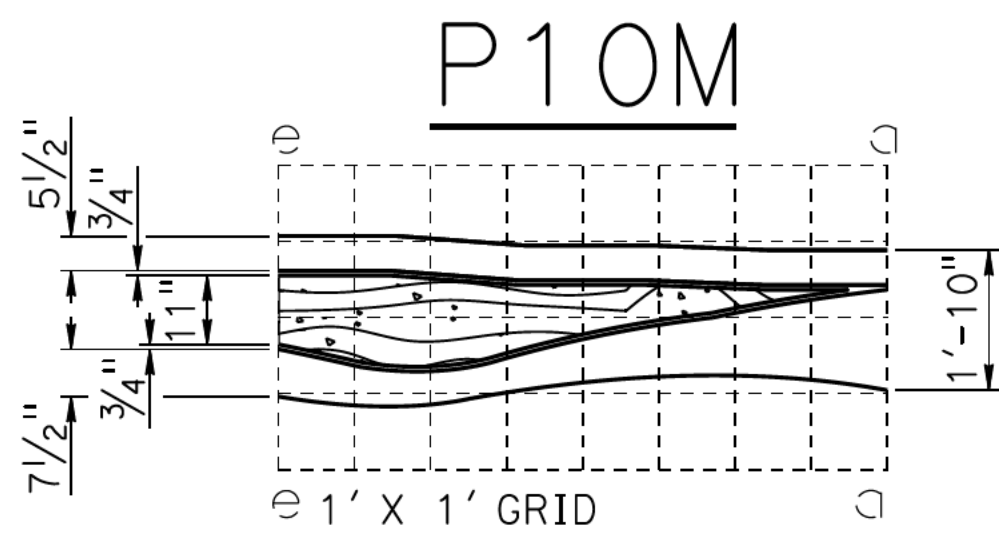
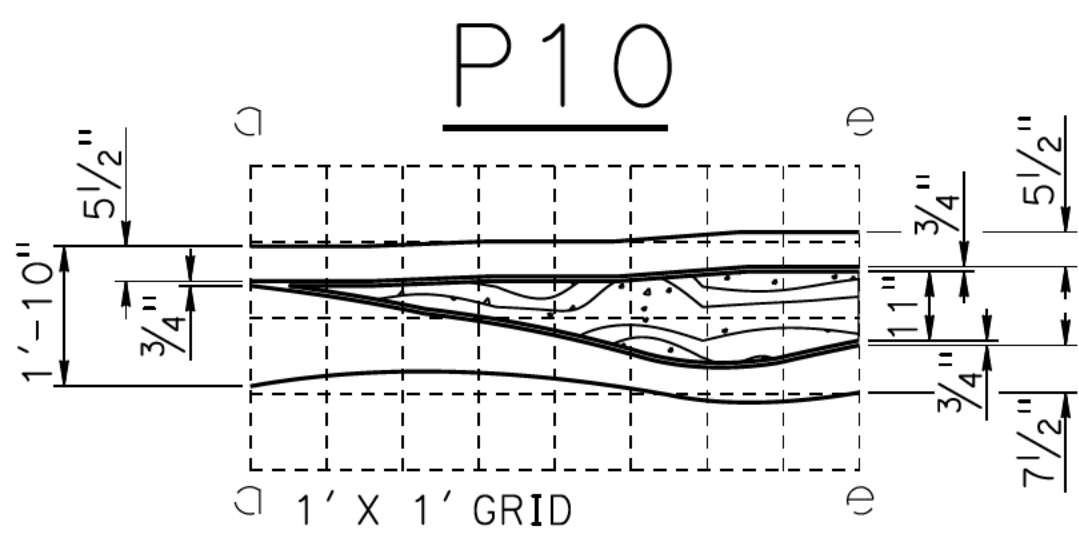
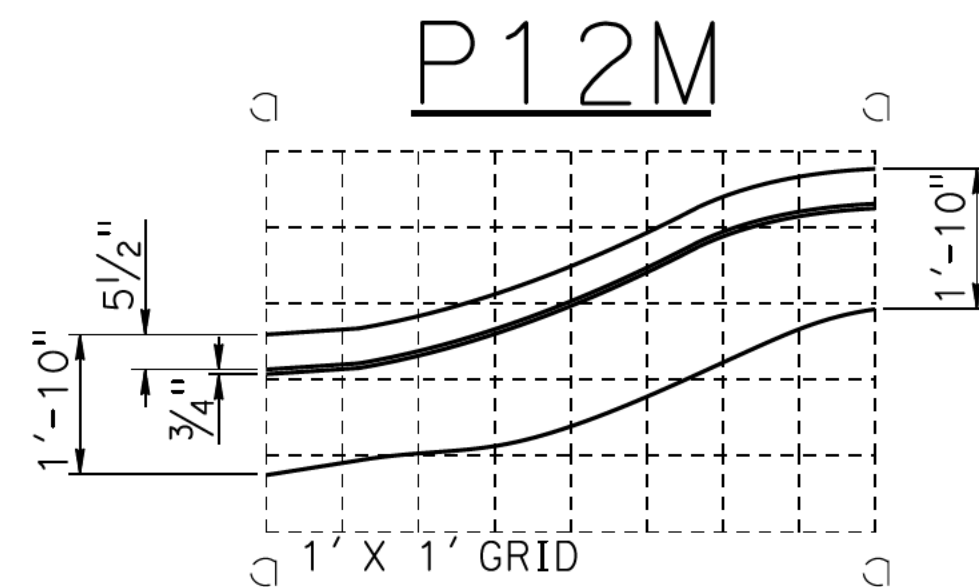
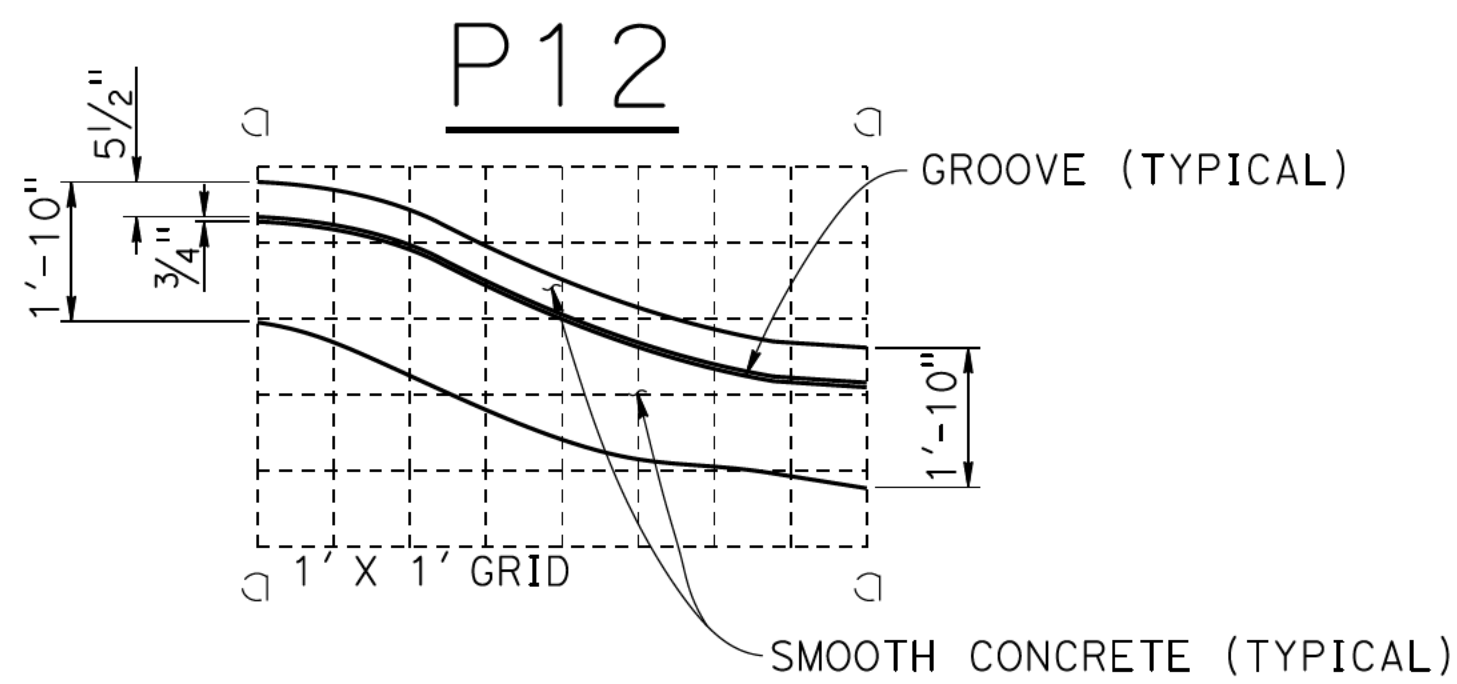
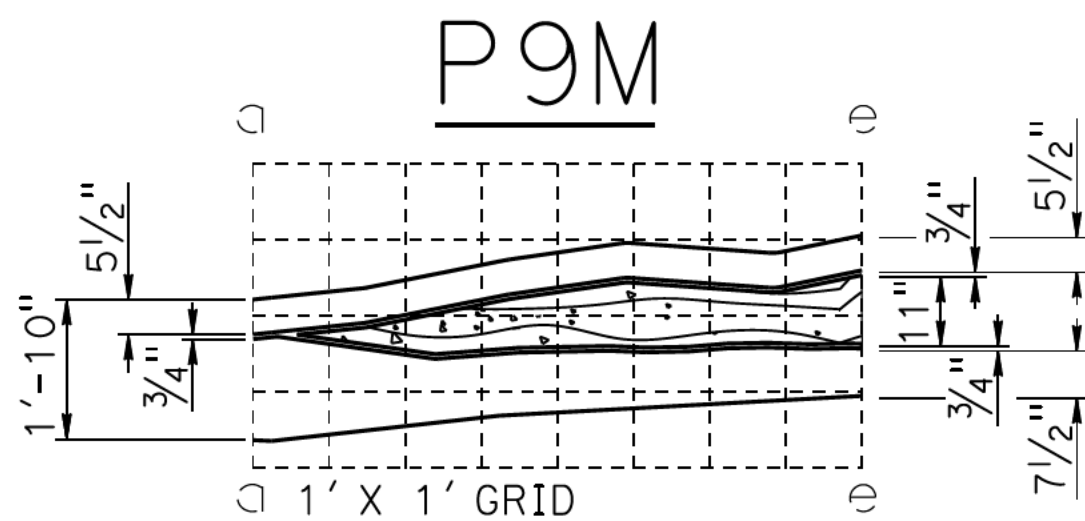
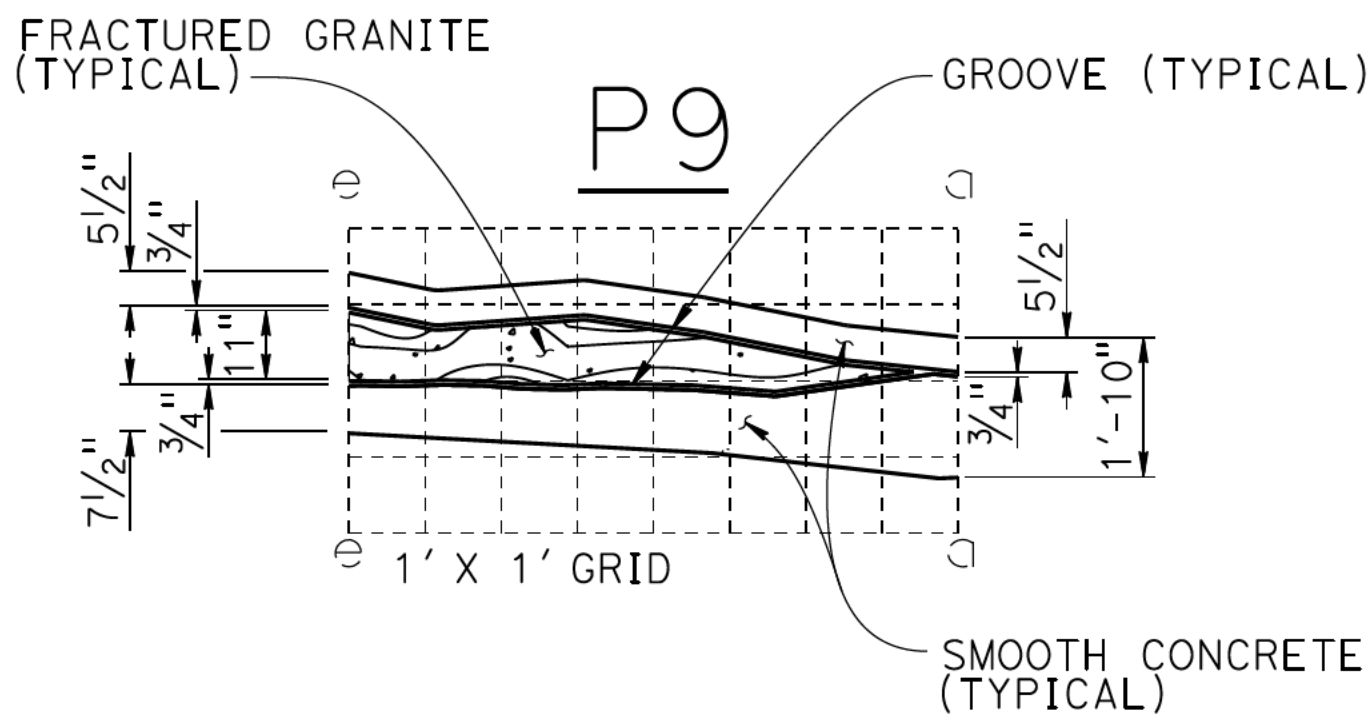
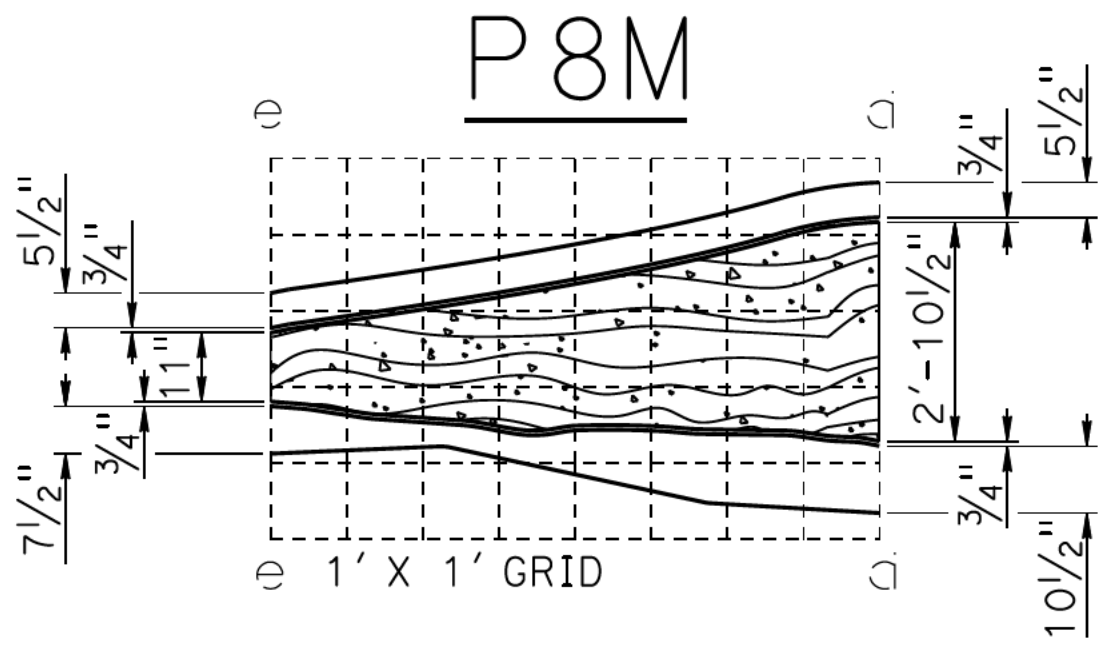
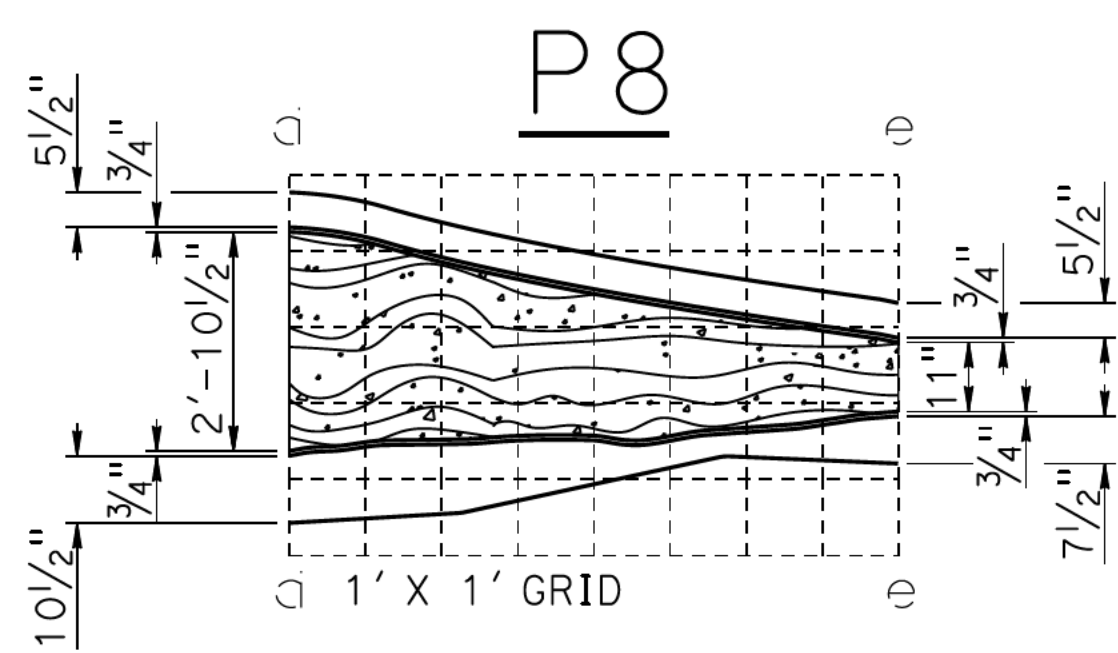
NOTE:
While these sample plans reflect the typical Caltrans' practice, they do not relate to any actual Caltrans projects. These sample plans shall only be used as references to the general workflow documents.



INTERCHANGEABLE PATTERN MOTIF MODULES
NO SCALE

NOTE:
Fractured Granite texture at match lines a-a, b-b, c-c, d-d, and e-e must match seamlessly between the interchangeable modules.

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INTERCHANGEABLE PATTERN MOTIF MODULES
NO SCALE

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BENCH MARK

SUHV 1608 Elev 998.060'
Fd. PK N in TOD W/B I-10
85.09' Lt Sta 2168+94.61
"B" Line
NAVD88

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

PLAN
1" = 100'

Note: No ground water encountered during field investigation.

