

PEASE TOWNSHIP
TOWNSHIP ROAD 469, PATTONS RUN ROAD
SITE 2 SLIP REPAIR

PEASE TOWNSHIP, BELMONT COUNTY, OHIO

PROJECT DESCRIPTION

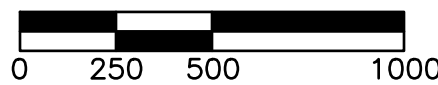
THIS PROJECT CONSISTS OF THE INSTALLATION OF A SOLDIER PILE RETAINING WALL WITH CONCRETE LAGGING ALONG A PORTION OF TOWNSHIP ROAD 469 (PATTONS RUN ROAD) WHERE SLOPE FAILURE HAS OCCURRED.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.



LOCATION MAP



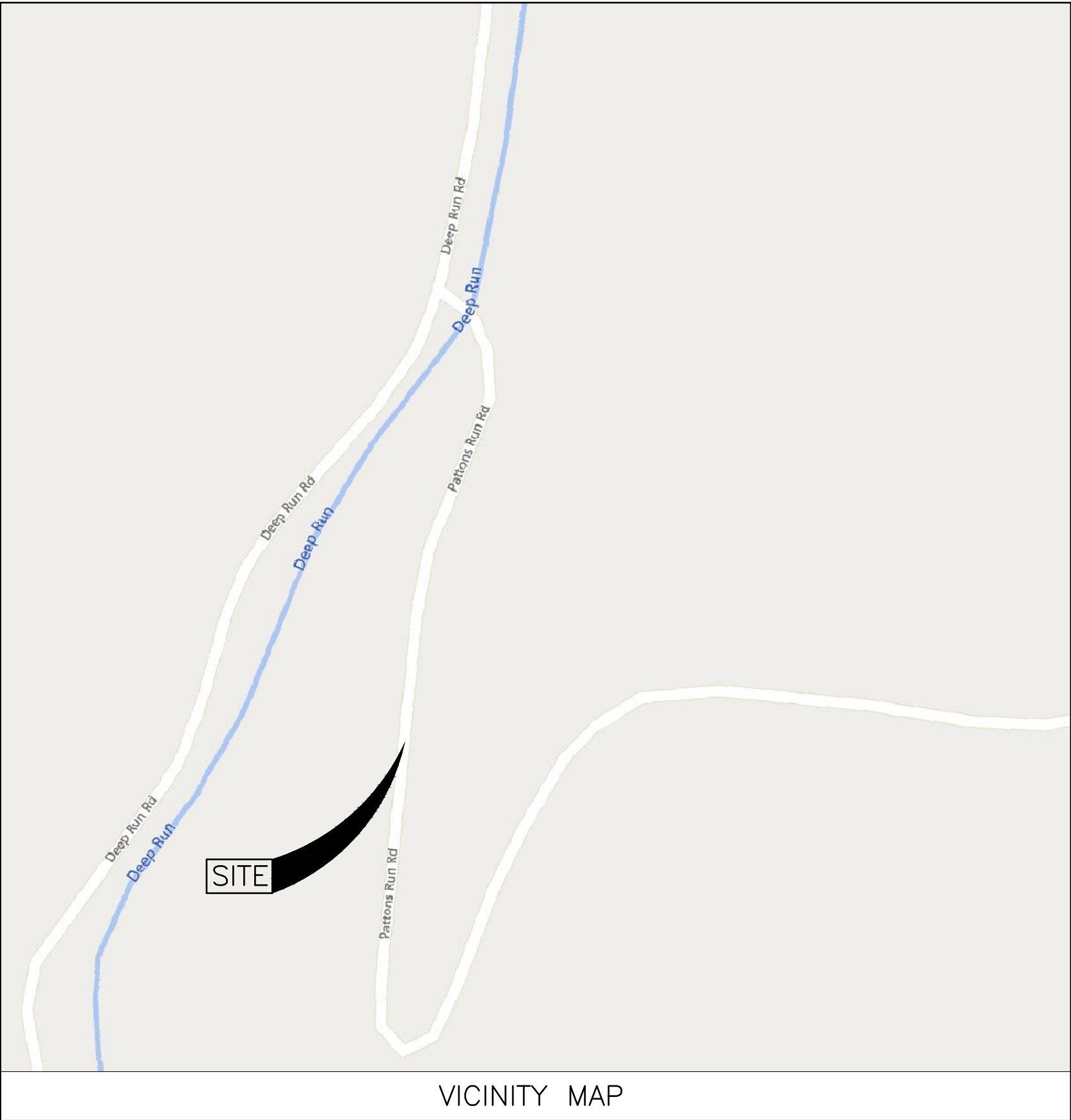
SCALE IN FEET

SHEET TITLE

TITLE SHEET
GENERAL NOTES & SUMMARY
OVERALL SITE PLAN
PLAN & PROFILE
RETAINING WALL DETAILS
PILE TABLE

SHEET NO.

1
2
3
4
5
6



VICINITY MAP



SCALE IN FEET

THE STANDARD DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF

STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
ODOT STANDARD CONSTRUCTION DRAWINGS		
MT-101.60	1/20/17	
MT-105.10	7/19/13	
MGS-2.1	1/9/18	
MGS-4.1	1/20/17	

PLANS PREPARED BY:

verdantas

Verdantas, LLC. Phone: (740) 217-7685
156 Woodrow Avenue, St. 3 Fax: (614) 793-9070
St. Clairsville, OH 43950 www.verdantas.com



PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS FOR
PATTONS RUN - SITE 2

TITLE SHEET

APPLICATION NO.

DATE:
2025-07-03

SCALE:
AS NOTED

SHEET:
1

ALLEN J. SMITH JR.



DESIGNED BY:
CJG

DRAWN BY:
CJG/LAF

CHECKED BY:
AJS

PROJECT NO.
30442

STATE: OHIO

P.E. 71835

STATE OF OHIO

REGISTERED PROFESSIONAL ENGINEER

SMITH JR.

E-71835

ALLEN J. SMITH JR.

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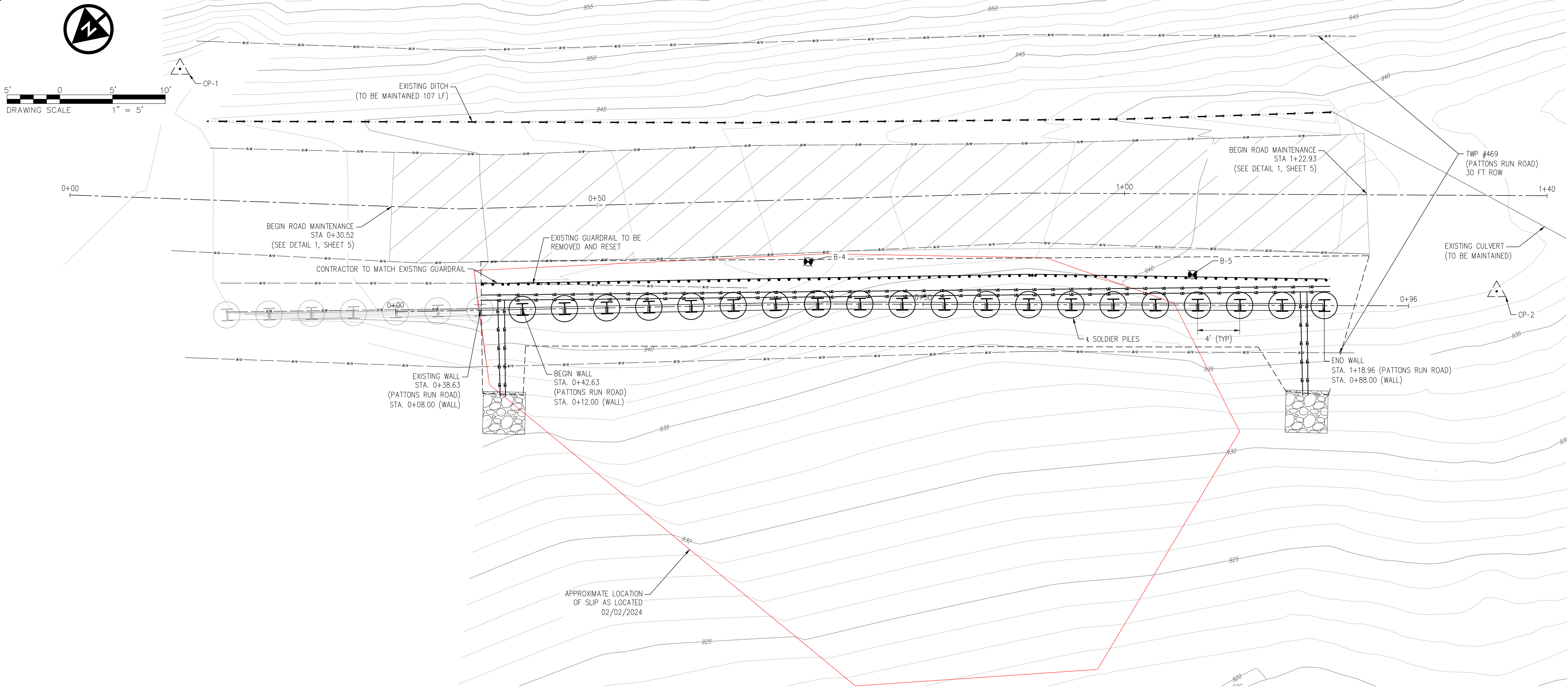
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SURVEYOR NOTES:

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.

DATES OF FIELD WORK: 12/02/2024

EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON.

SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

BASIS OF BEARINGS:

THE BEARINGS SHOWN HEREIN ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM. SOUTH SYSTEM, NAD83, GEOID12A.

BENCHMARKS:

AS PER THE TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS THE CONTRACTOR AND/OR HIS SURVEYOR SHALL BE RESPONSIBLE TO CROSS CHECK ALL CONTROL FOR DISTURBANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

BENCHMARK #1 - VDT CONTROL POINT PINS #1
ELEVATION = 947.67
BENCHMARK #2 - VDT CONTROL POINT PINS #2
ELEVATION = 937.80

CONTROL POINTS

BASIS OF BEARING: TRUE NORTH, BASED ON OBSERVATIONS, GPS DATA COLLECTED WITH TRIMBLER8 UNIT VRS CORRECTION ON OHIO STATE PLANE SOUTH ZONE COORDINATE SYSTEM, NAD 1983, NAVD 1988, GEOID 12A.

POINT #	NORTHING	EASTING	STATION AND OFFSET	DESCRIPTION
CP-1	786682.4700	2462593.4490	STA. 0+10.00, 12.31' LT.	CONTROL POINT PIN
CP-2	786600.4280	2462497.1000	STA. 1+35.30, 9.08 RT.	CONTROL POINT PIN

ALIGNMENT DETAILS

BASIS OF BEARING: TRUE NORTH, BASED ON OBSERVATIONS, GPS DATA COLLECTED WITH TRIMBLE 8 UNIT VRS CORRECTION ON OHIO STATE PLANE SOUTH ZONE COORDINATE SYSTEM, NAD 1983, NAVD 1988, GEOID 12A.

STATION	NORTHING	EASTING	ALIGNMENT
0+30.52	786675.4743	2462570.5673	TWP 469 (PATTONS RUN ROAD)
1+22.93	786603.9823	2462512.0226	TWP 469 (PATTONS RUN ROAD)
0+42.63	786672.2696	2462555.1432	1 DRILLED SHAFTS
1+18.96	786613.8168	2462506.5773	1 DRILLED SHAFTS

verdantas

156 WOODROW AVENUE
ST. CLAIRSVILLE, OH 43950-1187
TEL 740.217.7685
FAX 614.360.0023

ALLEN J. SMITH JR.



DESIGNED BY: C/G

CHK'D BY: DATE

REVISION

No.

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS FOR
PATTONS RUN - SITE 2
OVERALL SITE PLAN

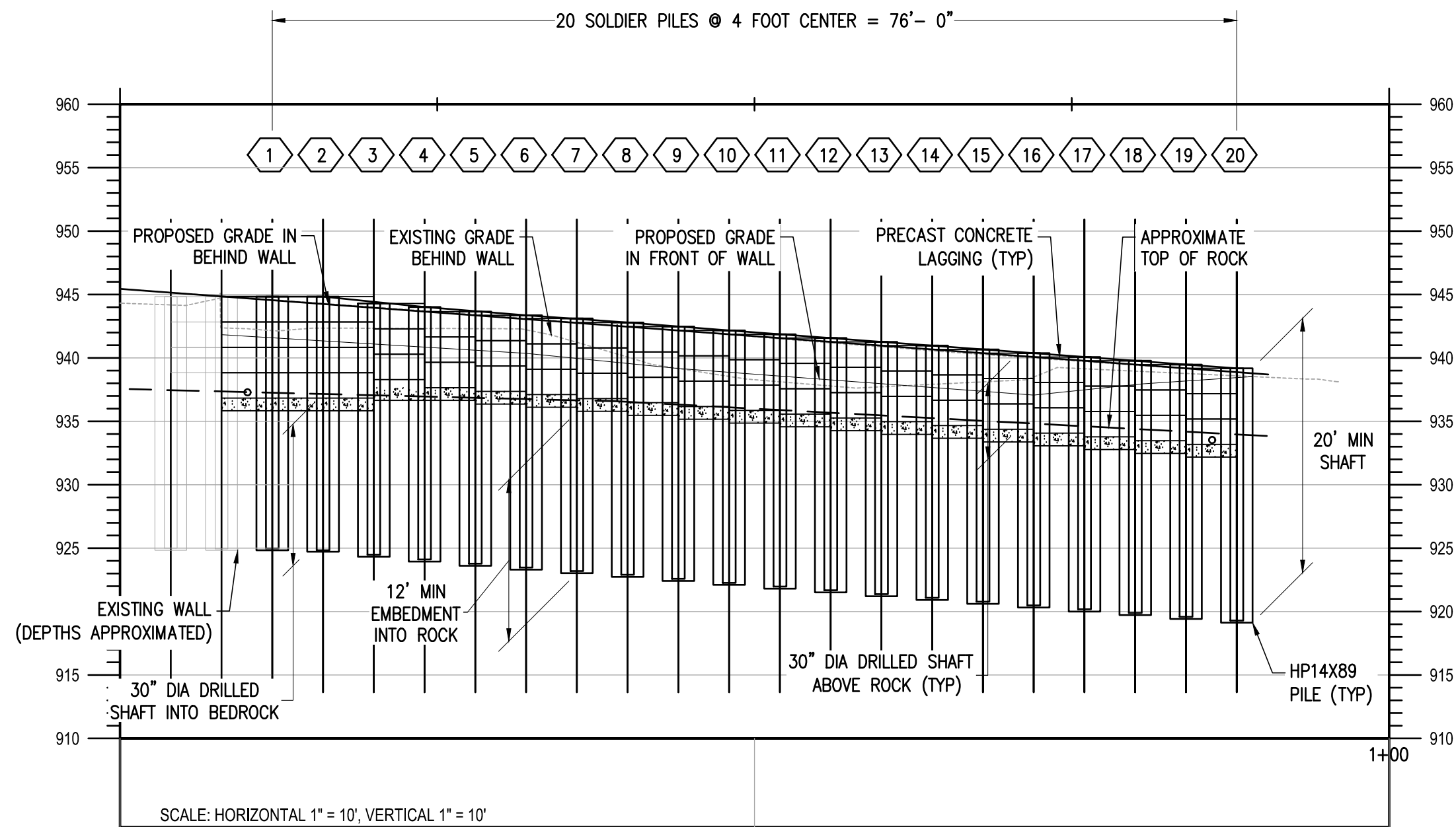
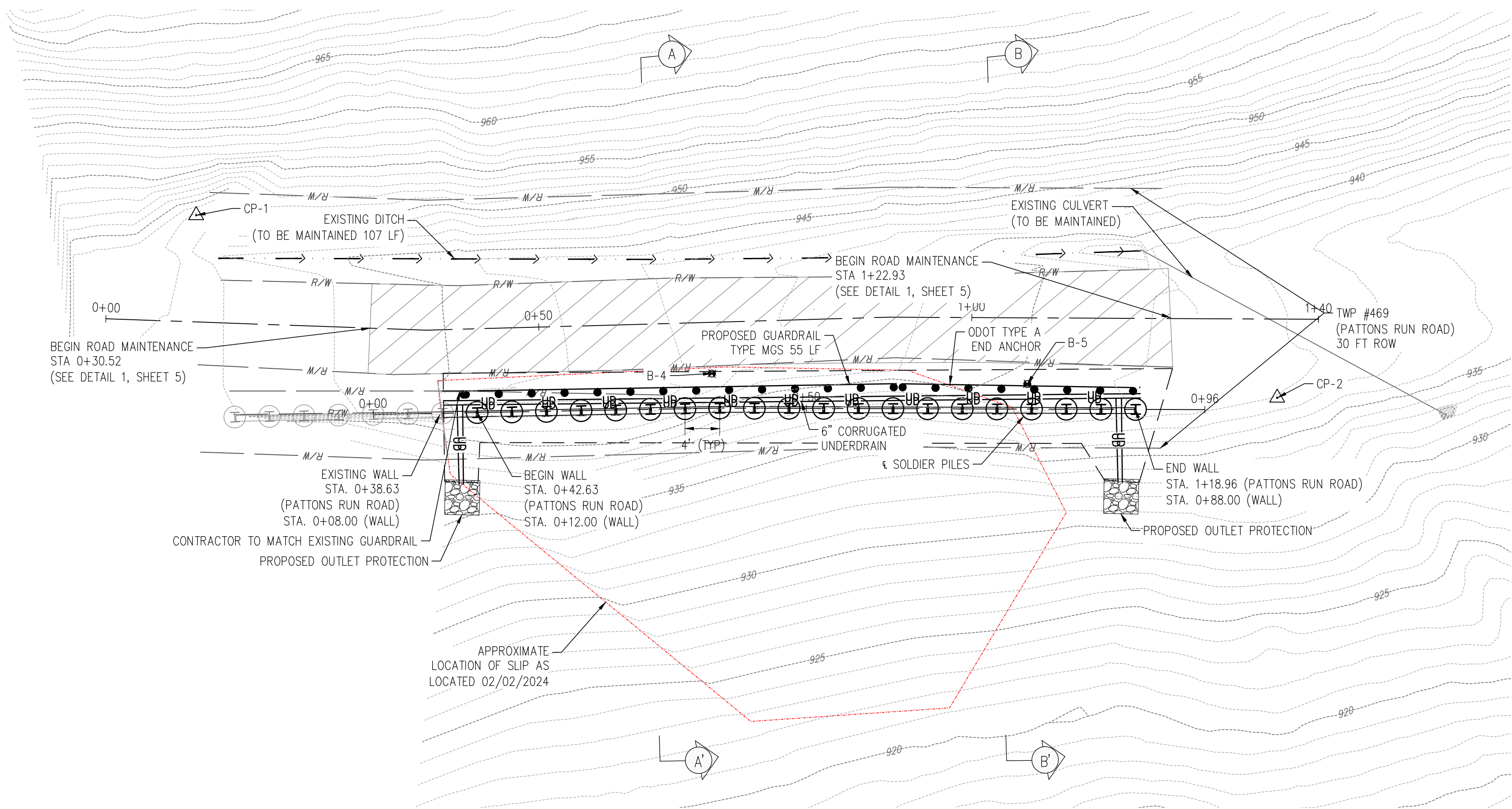
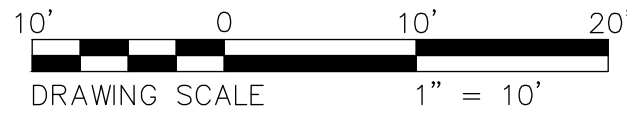
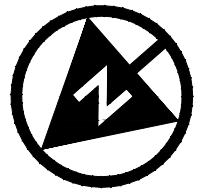
APPLICATION NO.

DATE: 2025-07-03

SCALE: AS NOTED

SHEET: 3





NOTE: THE TOP OF BEDROCK SHOWN IS BASED ON THE INFORMATION PROVIDED WITHIN THE GEOTECHNICAL INVESTIGATION AND THE EXISTING GROUND SURFACE.THEREFORE, THE ACTUAL DEPTH TO BEDROCK MAY VARY IN THE FIELD. IF THE BEDROCK ELEVATION VARIES, THE CONTRACTOR SHALL ADJUST THE PILE ACCORDINGLY TO ENSURE THE MINIMUM DESIGN REQUIREMENTS ARE MET.

ALLEN J. SMITH JR.



STATE: OHIO P.E. 71835

DESIGNED BY: C/G

DRAWN BY: C/G/LAF

CHECKED BY: AUS

PROJECT NO. 30442

CHK'D BY DATE

REVISION

No.

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS FOR
PATTONS RUN - SITE 2

PLAN & PROFILE

APPLICATION NO.

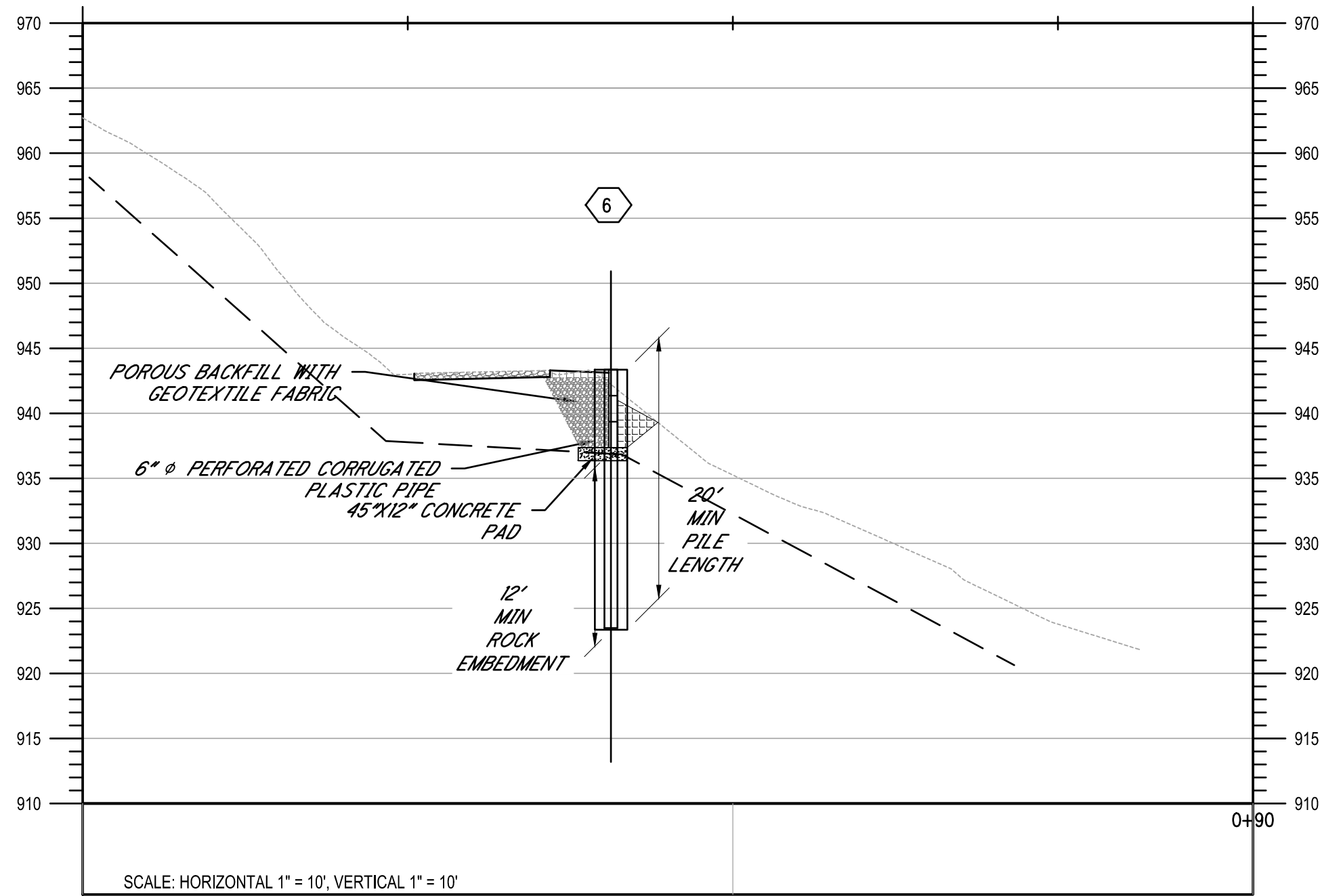
DATE: 2025-07-03

SCALE: AS NOTED

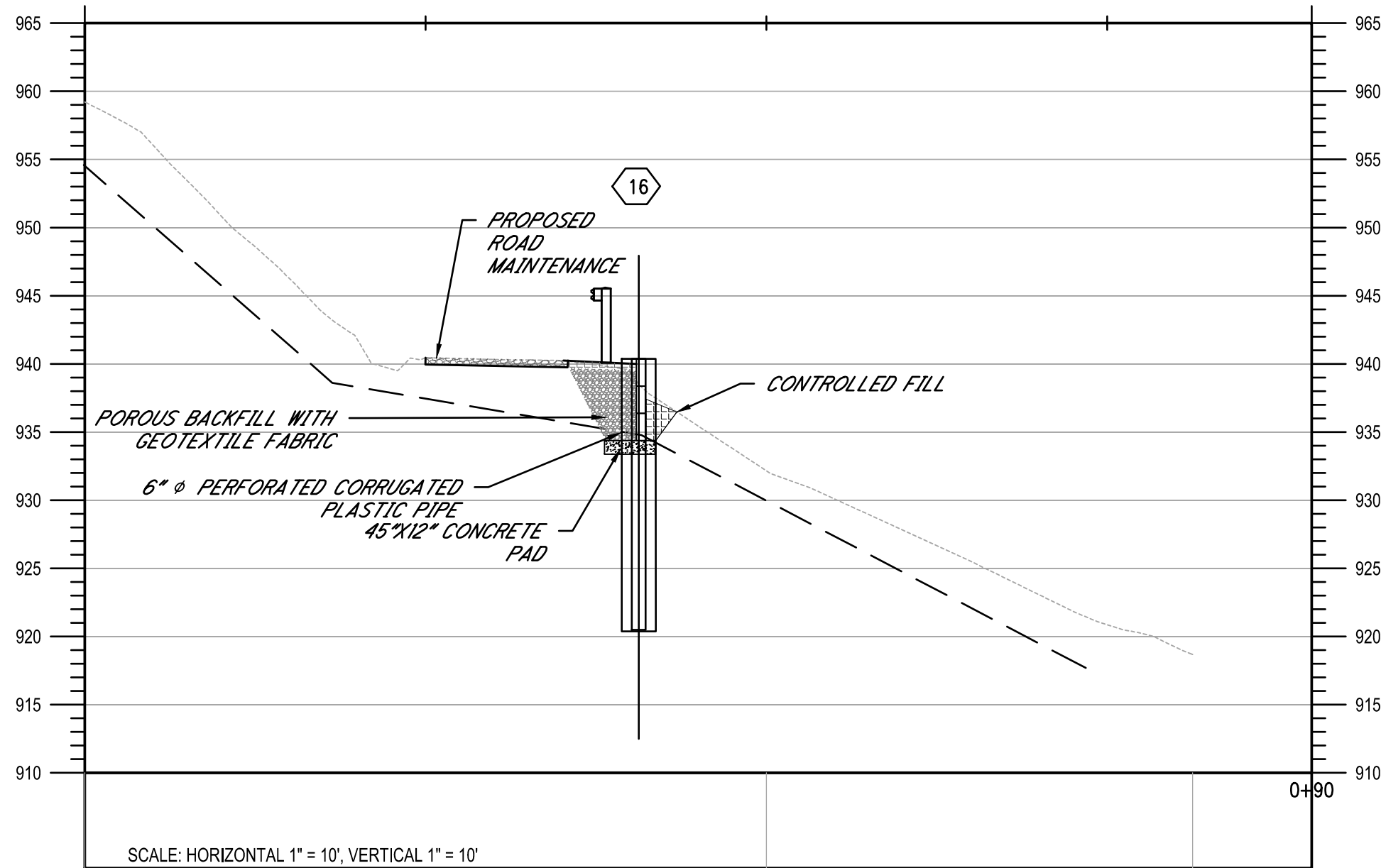
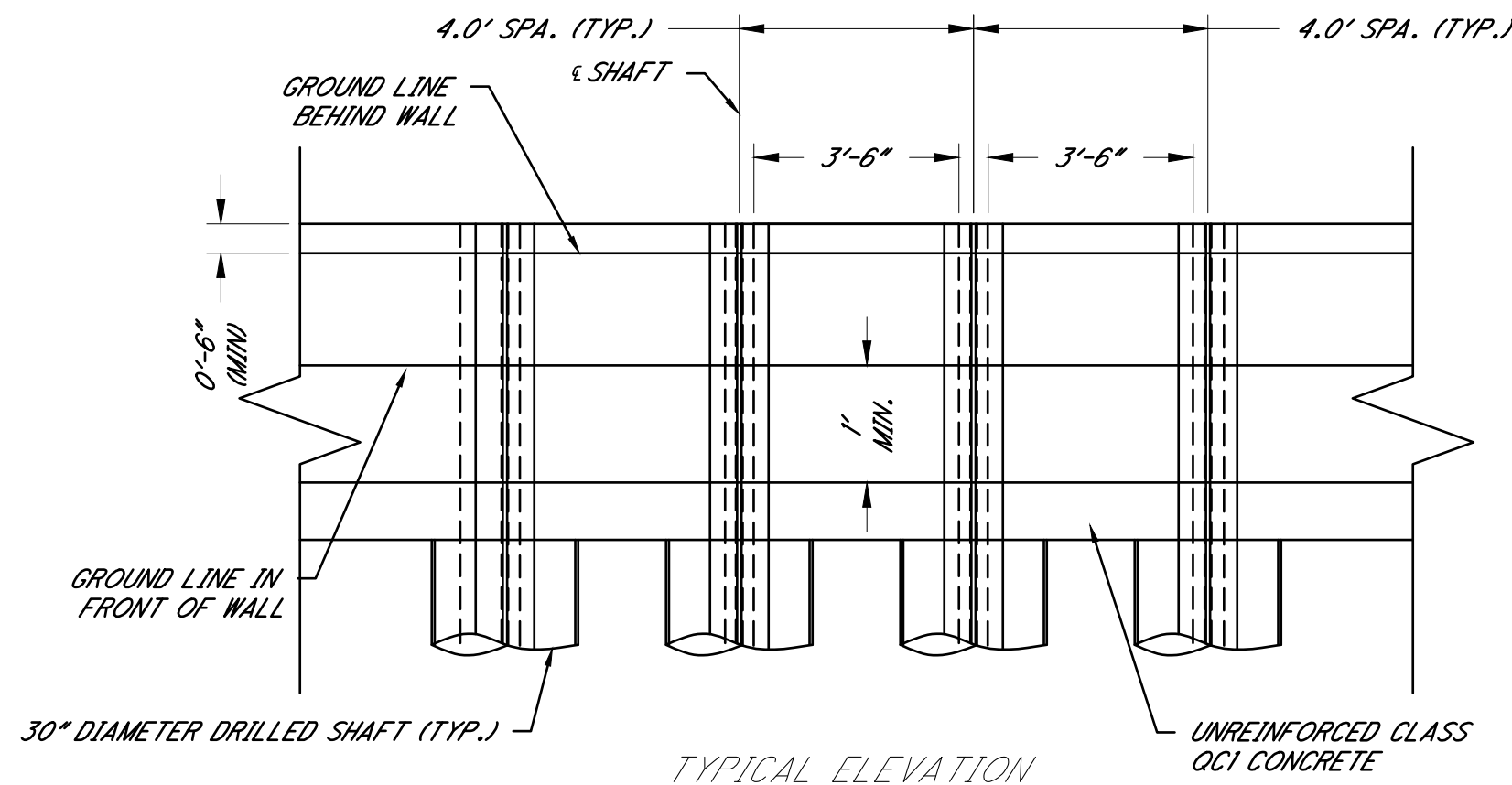
SHEET: 4



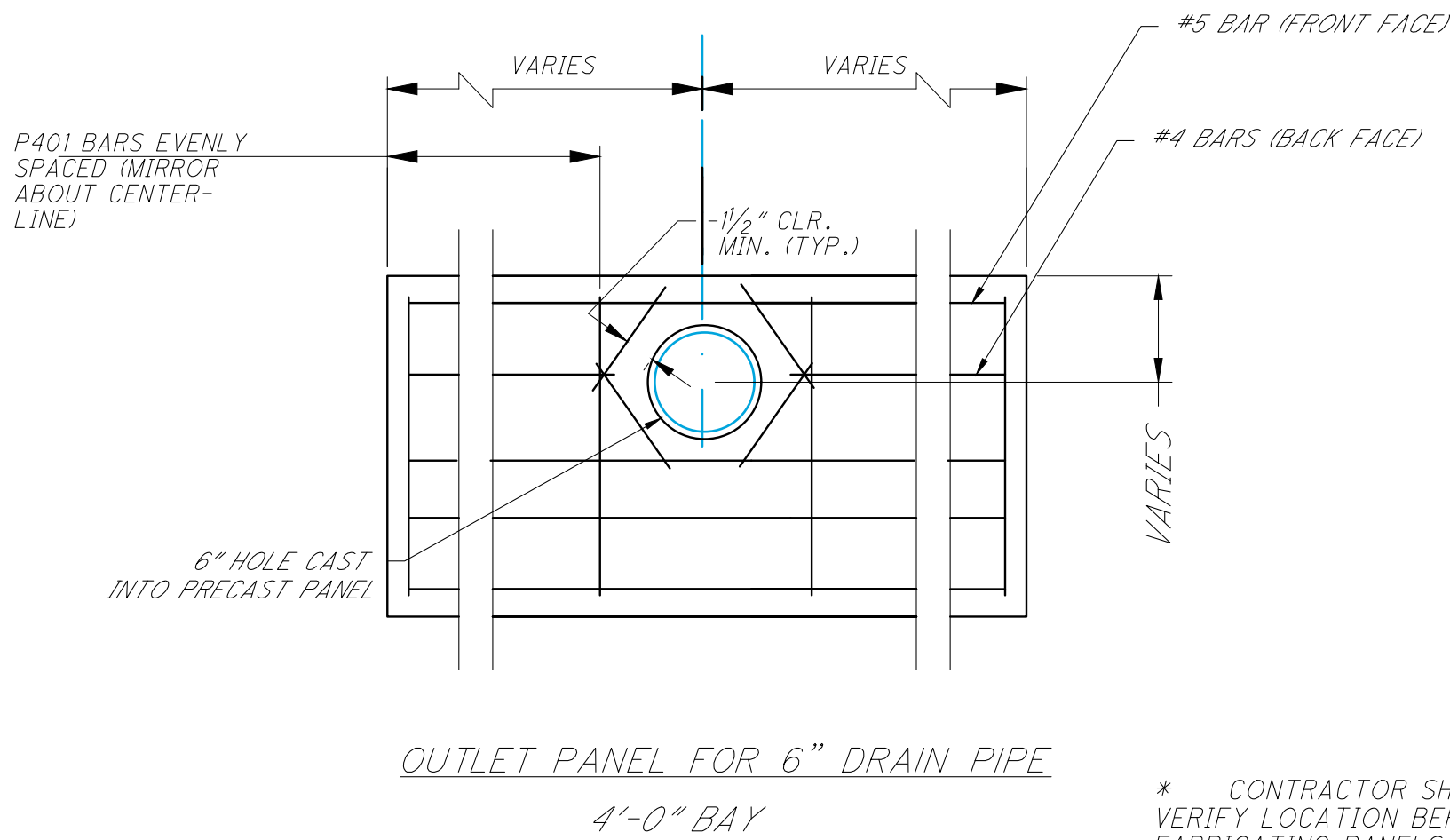
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TYPICAL REPAIR SECTION A-A'
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



TYPICAL REPAIR SECTION B-B'
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



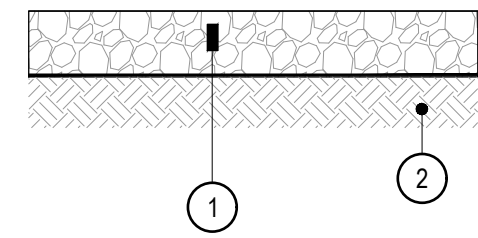
* CONTRACTOR SHALL
VERIFY LOCATION BEFORE
FABRICATING PANELS

PROVIDE BLOCKING, (2) PER
PANEL, AT EACH TOP PANEL
FOR STABILITY

EXPOSED WALL FACE

BEARING DETAIL
4'-0" BAY

2'-0" X 3/8" X 7" WIDE PREFORMED
BEARING PAD BETWEEN FLANGE AND
PANEL (SEE NOTES 7, 8, AND 9)



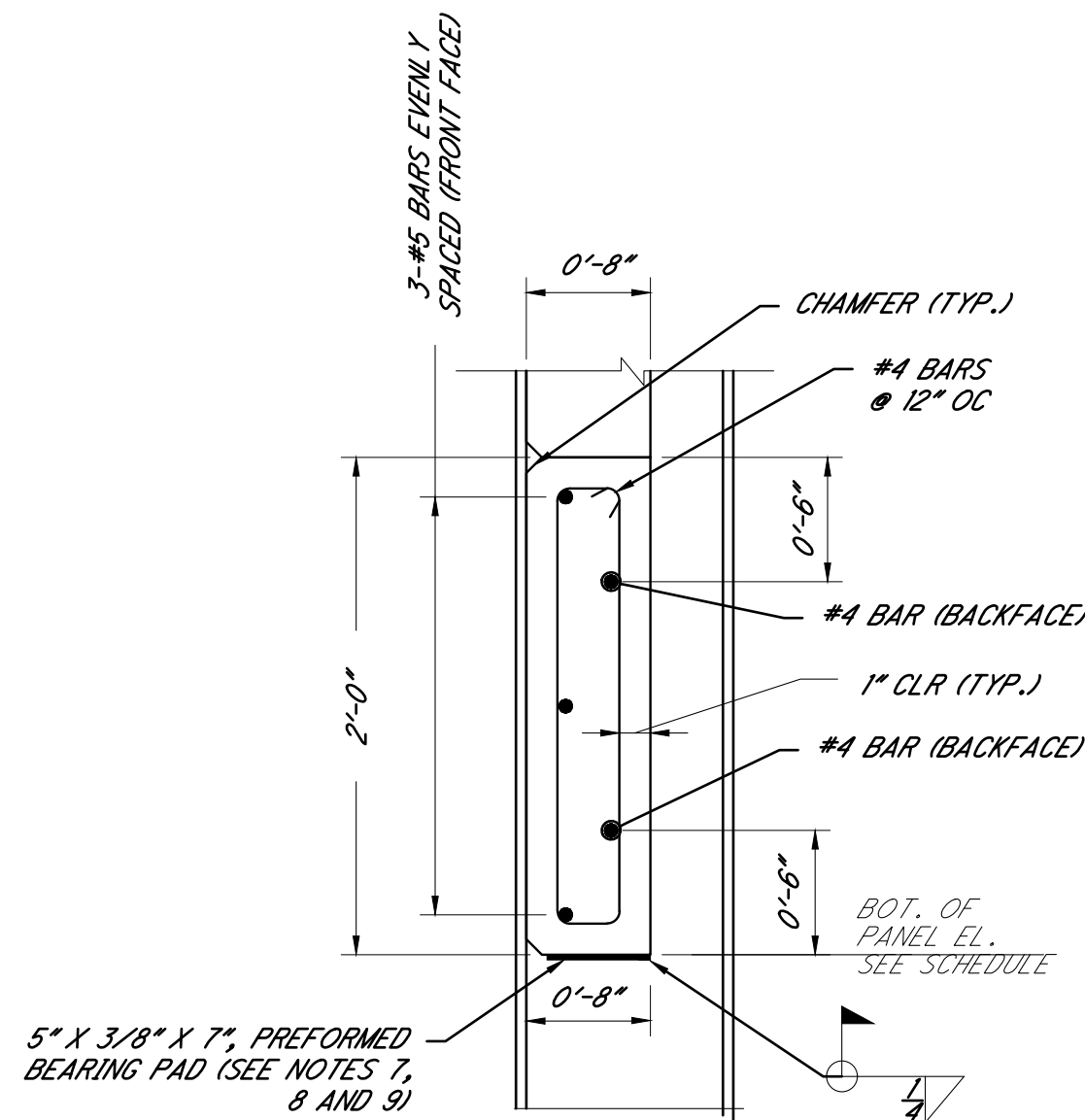
1 ROADWAY MAINTENANCE

Not to Scale

NOTES:

- ALL MATERIALS SHALL CONFORM TO THE CURRENT ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

- PROVIDE FILTER FABRIC ON ALL SIDES OF POROUS STONE BACKFILL, INCLUDING BACK SIDE OF PRECAST WALL PANELS. SLAG IS NOT PERMITTED FOR POROUS BACKFILL.
- THE SOLDIER PILES SHALL BE ASTM A572, GRADE 50.
- THE CONCRETE FOR PRECAST PANELS SHALL BE CLASS OCl, $f'_c = 4000$ PSI.
- ALL REINFORCING STEEL FOR THE CONCRETE PANELS SHALL BE EPOXY COATED.
- PREFORMED BEARING PADS SHALL BE PROVIDED AT ALL PANEL BEARINGS. PREFORMED BEARING PADS SHALL BE PLACED BETWEEN FRONT FACE OF CONCRETE PANEL AND BACK FACE OF PILE FLANGE AND SHALL BE ADHESIVELY BONDED TO THE FLANGE.
- PREFORMED BEARING PADS SHALL BE PROVIDED BENEATH THE BOTTOM PANELS, BETWEEN THE PANEL AND THE CONCRETE FOOTER AND/OR PLUG PILE.
- PREFORMED BEARING PADS SHALL BE NEOPRENE ELASTOMERIC PADS HAVING A DUROMETER HARDNESS OF 55 +/- 5, HIGH DENSITY POLYETHYLENE PADS WITH A MINIMUM DENSITY OF 59 LB/CFT OR EQUIVALENT. SUPPLY CERTIFIED TEST DATA TO THE ENGINEER UPON DELIVERY OF THE MATERIAL TO THE PROJECT.
- PRECAST PANELS ARE TO BE FABRICATED BY AN ODOT 1073 CERTIFIED FABRICATOR.
- LIFT HOOKS ON TOP PANELS TO BE GROUTED AFTER SETTING.



SECTION A-A'
4'-0" BAY

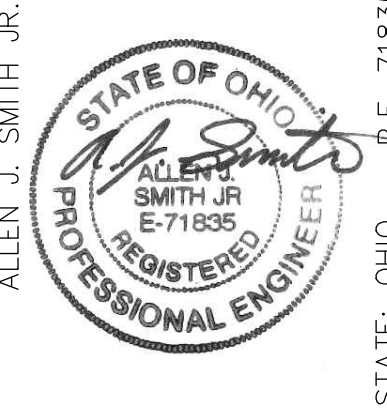
PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
SLIP REPAIR PLANS FOR
PATTONS RUN - SITE 2
RETAINING WALL DETAILS

APPLICATION NO.

DATE:
2025-07-03

SCALE:
AS NOTED

SHEET:
5



CHK'D BY	DESIGNED BY:	DATE	REVISION	No.
	CUG			
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	AUS			
	PROJECT NO.			
	30442			

verdantas

156 WOODROW AVENUE
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SHAFT NO.	STATION	TOP ELEVATION OF EXISTING GROUND AT PILE	TOP ELEVATION OF PROPOSED GROUND AT PILE	TOP ELEVATION OF SHAFT	BOTTOM ELEVATION OF SHAFT	ESTIMATED TOP OF ROCK ELEVATION	614	614	614
							STEEL PILES, MISC.: HP14X89	30" DIAMETER DRILLED SHAFT ABOVE BEDROCK, AS PER PLAN	30" DIAMETER DRILLED SHAFT INTO BEDROCK, AS PER PLAN
1	0+12.00	942.15	944.83	944.83	924.83	936.83	20.00	8.00	12.00
2	0+16.00	942.35	944.83	944.72	924.72	936.72	20.00	8.00	12.00
3	0+20.00	942.34	944.42	944.31	924.31	936.31	20.00	8.00	12.00
4	0+24.00	942.32	944.01	943.94	923.94	935.94	20.00	8.00	12.00
5	0+28.00	942.31	943.68	943.62	923.62	935.62	20.00	8.00	12.00
6	0+32.00	942.22	943.36	943.31	923.31	935.31	20.00	8.00	12.00
7	0+36.00	941.23	943.08	943.03	923.03	935.03	20.00	8.00	12.00
8	0+40.00	940.07	942.80	942.73	922.73	934.73	20.00	8.00	12.00
9	0+44.00	939.17	942.48	942.42	922.42	934.42	20.00	8.00	12.00
10	0+48.00	938.54	942.16	942.11	922.11	934.11	20.00	8.00	12.00
11	0+52.00	938.12	941.86	941.81	921.81	933.81	20.00	8.00	12.00
12	0+56.00	937.79	941.57	941.51	921.51	933.51	20.00	8.00	12.00
13	0+60.00	937.72	941.27	941.21	921.21	933.21	20.00	8.00	12.00
14	0+64.00	937.92	940.97	940.92	920.92	932.92	20.00	8.00	12.00
15	0+68.00	938.11	940.67	940.62	920.62	932.62	20.00	8.00	12.00
16	0+72.00	938.50	940.37	940.32	920.32	932.32	20.00	8.00	12.00
17	0+76.00	939.15	940.08	940.00	920.00	932.00	20.00	8.00	12.00
18	0+80.00	938.96	939.78	939.72	919.72	931.72	20.00	8.00	12.00
19	0+84.00	938.78	939.48	939.42	919.42	931.42	20.00	8.00	12.00
20	0+88.00	938.59	939.18	939.12	919.12	931.12	20.00	8.00	12.00
TOTALS CARRIED TO GENERAL SUMMARY							400.00	160.00	240.00