

APPENDIX A-1
MALAKOFF DIGGINS STATE HISTORIC PARK PIT
DRAINAGE RUNOFF BMP CONSTRUCTION
SHEETS 1 – 20 (MARCH 2023)

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION ACQUISITION AND DEVELOPMENT DIVISION MALAKOFF DIGGINS STATE HISTORIC PARK PIT DRAINAGE RUNOFF BMP CONSTRUCTION

CSFM # [PERMIT NUMBER]



ACQUISITION &
DEVELOPMENT DIVISION
One Capitol Mall
Sacramento, CA
95814-3229

- ALL MATERIALS SHOWN OR NOTED ON THE PLANS ARE NEW UNLESS CALLED OUT OTHERWISE.
- THE CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AT THE SITE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STATE REPRESENTATIVE IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK.
- ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE FOLLOWING LISTED CODES, AND ALL OTHERS HAVING JURISDICTION OVER THE WORK.
2019 EDITION OF THE CALIFORNIA BUILDING CODE.
2019 EDITION OF THE CALIFORNIA FIRE CODE.
2019 EDITION OF THE CALIFORNIA ENERGY CODE.
2019 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2019 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2019 EDITION OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE.
2019 EDITION OF THE CALIFORNIA PLUMBING CODE.
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2019 EDITION OF THE CALIFORNIA HISTORICAL BUILDING CODE.
- CONDUCT ALL WORK IN ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION OVER THE WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. WHERE DETAILED INFORMATION OR CLARIFICATION IS REQUIRED, THE MATTER SHALL BE REFERRED TO THE STATE REPRESENTATIVE FOR WRITTEN RESOLUTION.
- THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS, BUT SHALL RELY ONLY ON THE WRITTEN DIMENSIONS GIVEN. IF A DISCREPANCY OCCURS OR NO DIMENSION IS GIVEN, THE CONTRACTOR SHALL NOTIFY THE STATE REPRESENTATIVE FOR WRITTEN CLARIFICATION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- THE CONTRACTOR SHALL USE APPROPRIATE MEANS AND METHODS TO ACCOMPLISH THE WORK OF THIS CONTRACT WITHOUT DAMAGING HISTORIC BUILDING COMPONENTS AND FABRIC TO REMAIN AS DIRECTED BY THE STATE REPRESENTATIVE.
- WORK THAT DOES NOT MEET THE REQUIREMENTS SHALL BE CONSIDERED NON-COMPLIANT AND WILL NOT BE ACCEPTED BY THE STATE. ANY AREA WHICH IS NON-COMPLIANT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC SURVEY TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC. DATED 2017 IN NAD83 CALIFORNIA STATE PLANE, ZONE II, US FOOT.
- GEOTECHNICAL REPORT: GEOTECHNICAL INVESTIGATION, PIT DRAINAGE RUNOFF BMP DESIGN MALAKOFF DIGGINS STATE HISTORIC PARK, DRAFT MARCH 1, 2021 (GOLDER ASSOCIATES, INC.).
- NO SEDIMENT MARKERS SHALL BE REMOVED, BURIED, OR DESTROYED WITHOUT PRIOR WRITTEN APPROVAL FROM THE STATE REPRESENTATIVE.

1

- SECTION NUMBER
 SHEET NUMBER
- DETAIL NUMBER
 SHEET NUMBER
- REVISION NUMBER
- DIMENSION LINE CENTER LINE
- DIMENSION LINE FACE OF MATERIAL
- ELEVATION MARKER
- EXISTING GROUND TOPOGRAPHY (SEE GENERAL NOTE 9)
- PROPOSED FINISHED GRADE TOPOGRAPHY (5')
- TREE (EXISTING)
- GRAVEL DRIVE OR RIPRAP PLACEMENT

SYMBOLS LEGEND

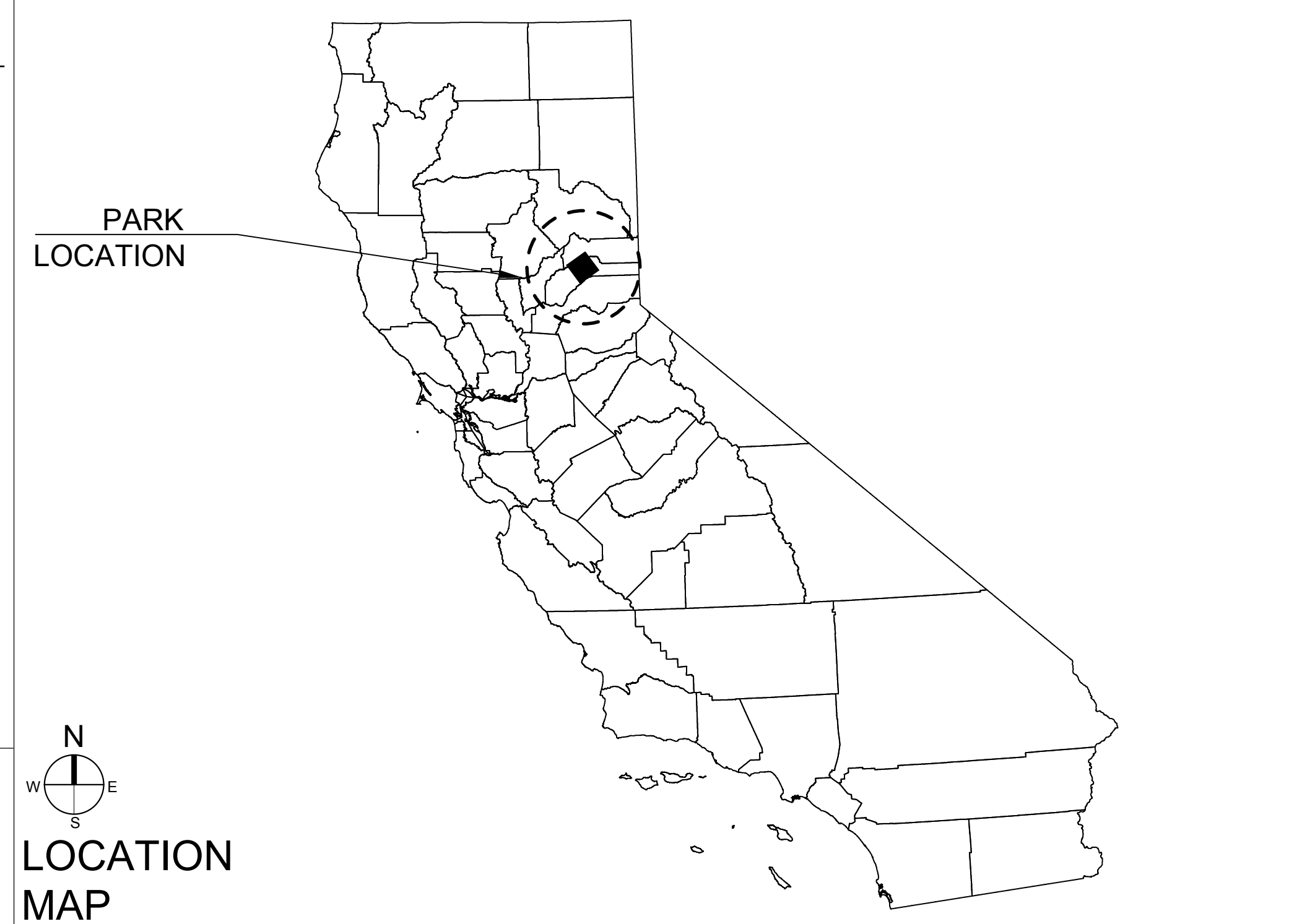
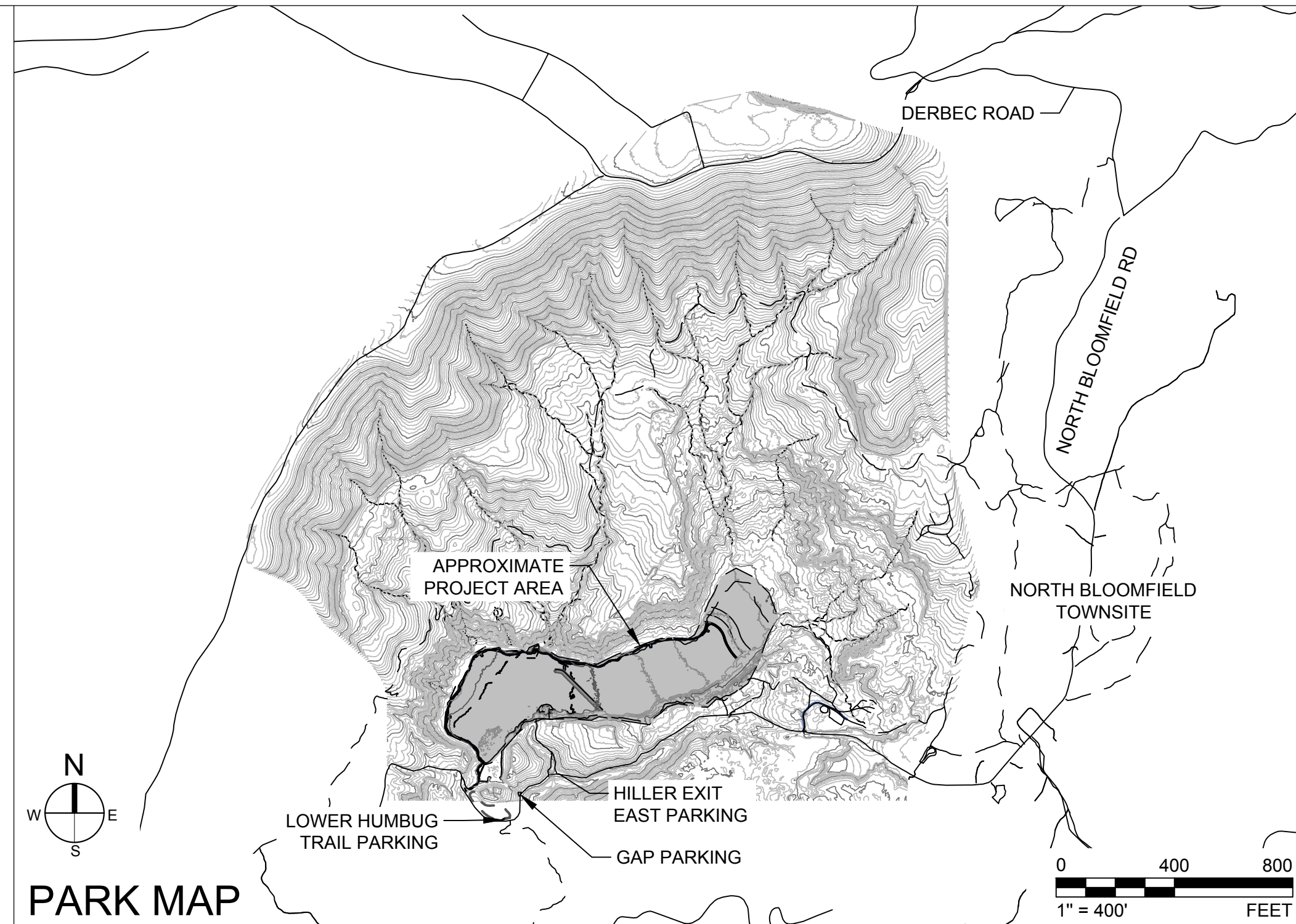
THE PURPOSE OF THIS PROJECT IS TO INSTALL BEST MANAGEMENT PRACTICES (BMPs) WITHIN THE HISTORIC MINE PIT IN ORDER TO CONTROL SEDIMENT LOAD LEAVING THE PIT SURFACE WATER RUNOFF. THE WORK WILL INCLUDE:

- CONSTRUCTION OF ACCESS CAUSEWAYS AND STAGING AREAS.
- CONSTRUCTION OF A SOLDIER PILE WALL AROUND THE CURRENT DRAINAGE OUTLET OF THE MINE PIT (HILLER TUNNEL).
- CONSTRUCTION OF AN INTERCEPTOR SWALE TO DIVERT RUNOFF WATER TOWARD THE CENTRAL AND WEST END OF THE PIT.
- CONSTRUCTION OF A ROCK GRADE CONTROL STRUCTURE ON THE EAST END OF THE PIT.
- CONSTRUCTION OF BRUSH DAMS ACROSS CONCENTRATED FLOW AREAS OF THE PIT AND ACROSS THE EAST END OF THE PIT UPSTREAM OF THE GRADE CONTROL STRUCTURE.

SCOPE OF WORK

23579 N BLOOMFIELD RD,
NEVADA CITY, CA 95959

PARK ADDRESS



- G-1 GENERAL ARRANGEMENT COVER SHEET
- SITE PREPARATION
 - SP-1 CONTRACTOR STAGING AREA AND TRAFFIC PLAN
 - SP-2 SITE PLAN AND ACCESS CAUSEWAY CONSTRUCTION
 - SP-3 CAUSEWAY PLAN AND PROFILE (1 OF 6)
 - SP-4 CAUSEWAY PLAN AND PROFILE (2 OF 6)
 - SP-5 CAUSEWAY PLAN AND PROFILE (3 OF 6)
 - SP-6 CAUSEWAY PLAN AND PROFILE (4 OF 6)
 - SP-7 CAUSEWAY PLAN AND PROFILE (5 OF 6)
 - SP-8 CAUSEWAY PLAN AND PROFILE (6 OF 6)
 - SP-9 HILLER TUNNEL AREA SITE PREPARATION PLAN
 - SP-10 SHOOTING RANGE SITE PREPARATION PLAN
- CIVIL
 - C-1 SOLDIER PILE WALL PLAN AND PROFILE
 - C-2 INTERCEPTOR SWALE INSTALLATION PLAN
 - C-3 GRADE CONTROL STRUCTURE INSTALLATION PLAN
 - C-4 CAUSEWAY DETAILS (1 OF 2)
 - C-5 CAUSEWAY DETAILS (2 OF 2)
 - C-6 SOLDIER PILE WALL DETAILS
 - C-7 INTERCEPTOR SWALE DEATILS
 - C-8 GRADE CONTROL AND BRUSH DAM DETAILS
 - C-9 TEMPORARY EROSION AND SEDIMENT CONTROLS

CALIFORNIA STATE FIRE MARSHAL- APPROVED	
Approval of this plan does not authorize or approve any omission of deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.	
Reviewed by	Date
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION CERTIFICATION #	
Reviewed by	Date
ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER	



DESIGNED:	KWW
DRAWN:	REDMOND
CHECKED:	RPCE
DATE:	02-17-2023

REVISIONS	
NO.	DATE
ISSUED FOR BID	02/17/23

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
COVER SHEET

DRAWING NO.
154490214-01

SHEET NO.
G-1
01 OF 20

GENERAL NOTES

SHEET INDEX **DRAFT NOT FOR CONSTRUCTION**



1 TRAFFIC ROUTES WITH STAGING AREAS
SP-1

AREA NAME	AREA (SQ. FT.)
IN-PIT CONSTRUCTION STAGING AREA	48,900
BOARDWALK STAGING AREA	4,500
SHOOTING RANGE STAGING AREA	28,300

LEGEND

	ROADS
	HIKING TRAILS

- NOTE(S)**
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.
 - CONTRACTOR STAGING AREAS SHALL BE FENCED WITH 6' TALL FENCING AND LOCKABLE GATE.

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CERTIFICATION # _____
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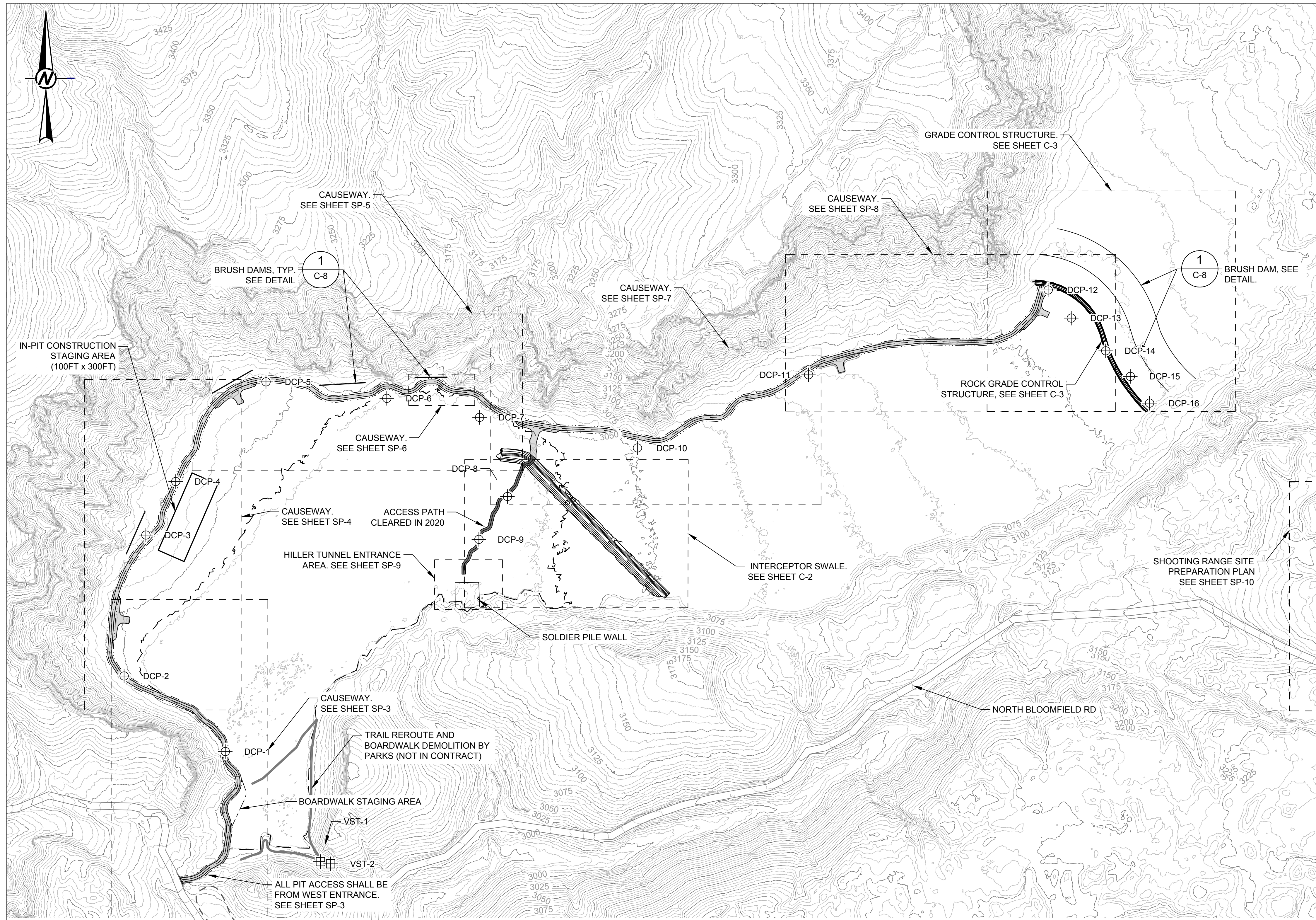
DESIGNED: KWW
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DATE: 03-17-2023

REVISIONS	
DATE	
03/17/23	ISSUED FOR BID

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CONTRACTOR STAGING AREA AND TRAFFIC PLAN

DRAWING NO.
154490214-02

SHEET NO.
SP-1
02 OF 20



LEGEND

- EXISTING MAJOR CONTOUR (25 FT)
- EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS CAUSEWAY
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS



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Reviewed by _____ Date _____

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DATE	
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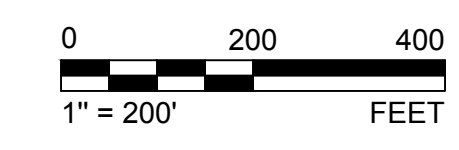
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**SITE PLAN AND ACCESS
CAUSEWAY CONSTRUCTION**

DRAWING NO.
154490214-03

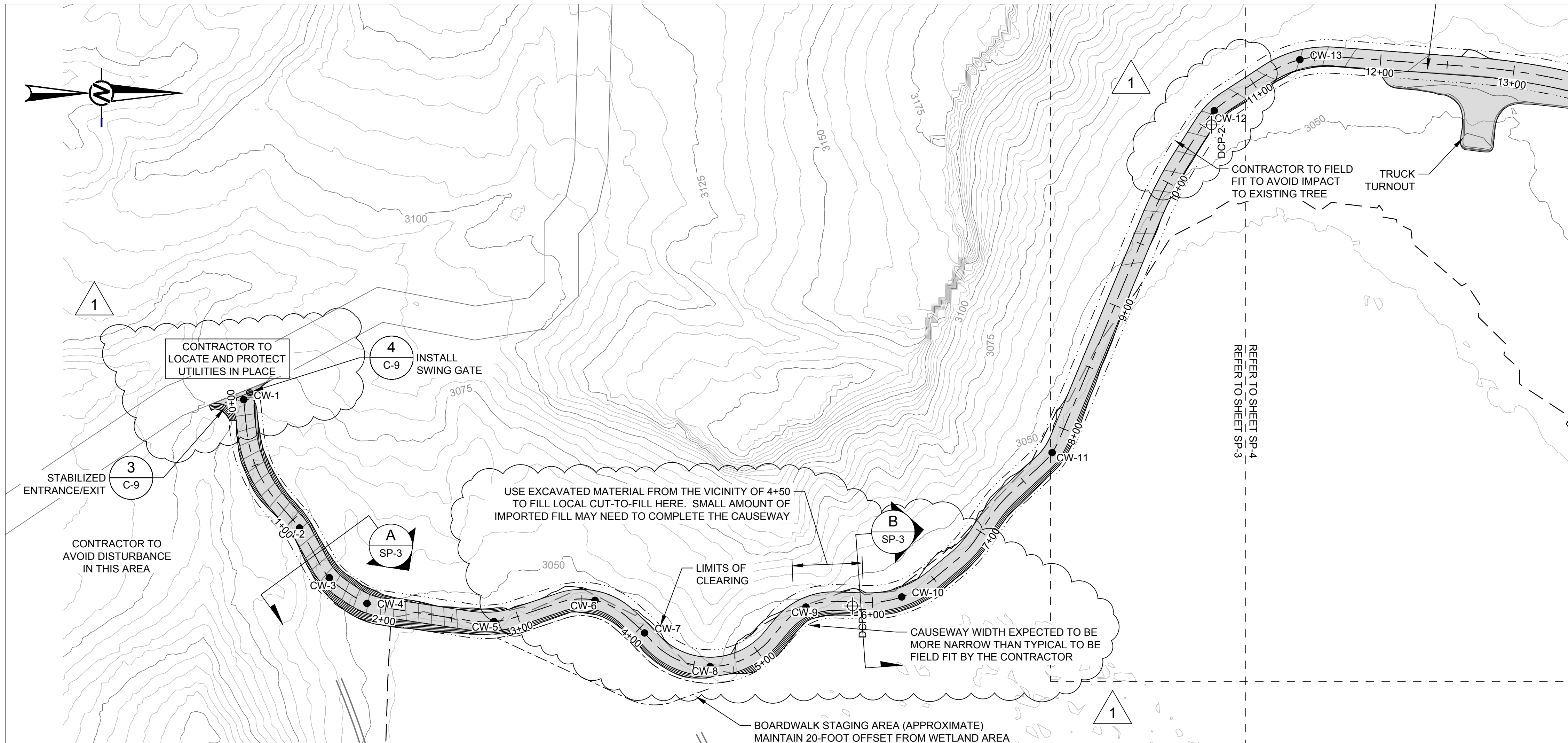
SHEET NO.
SP-2
03 OF 20

NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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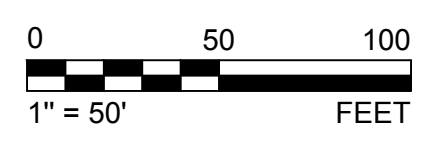
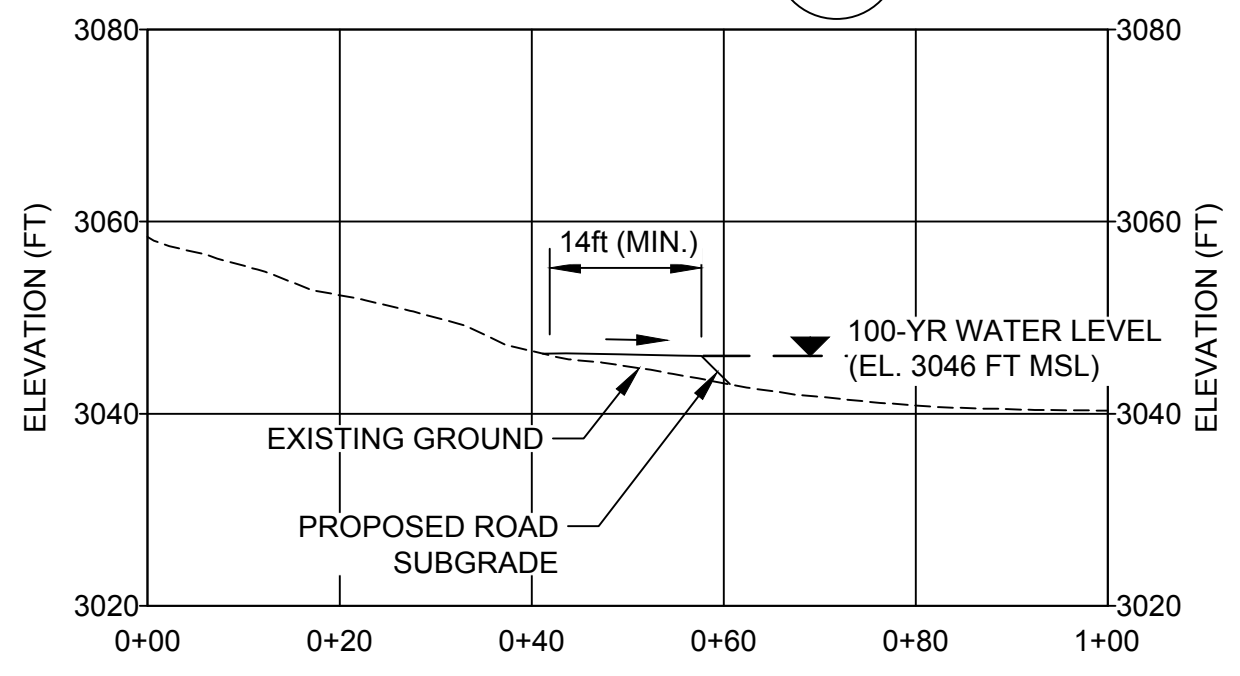
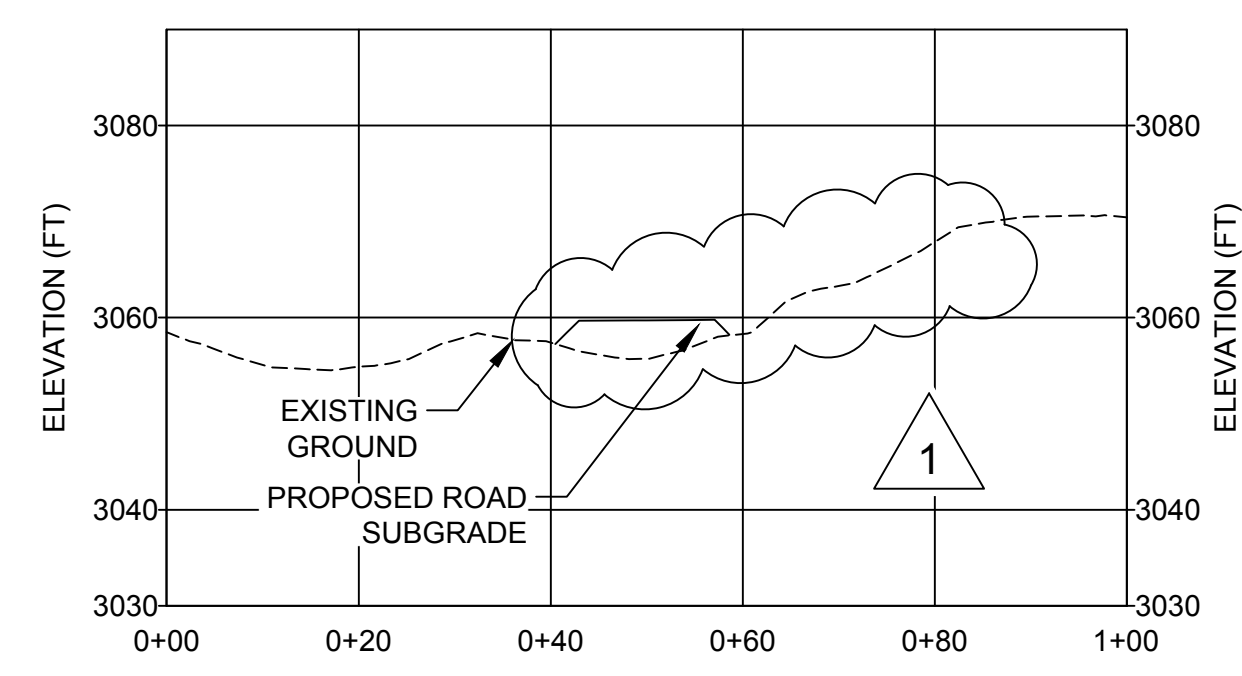
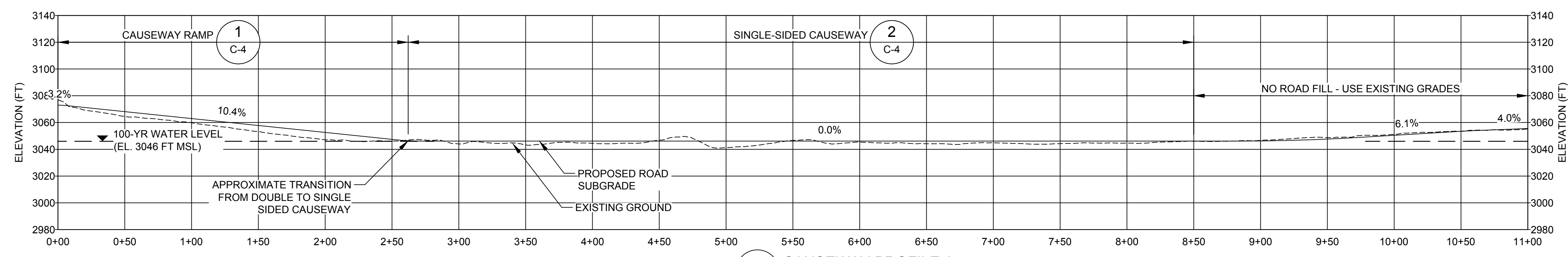


LEGEND

- 3050 EXISTING MAJOR CONTOUR (25 FT)
- 3055 EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS

CONTROL POINT TABLE

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
CW-1	2261233.52	6865466.48	3072.86
CW-2	2261275.30	6865562.43	3062.14
CW-3	2261297.61	6865599.64	3057.64
CW-4	2261325.81	6865618.86	3054.08
CW-5	2261420.83	6865632.35	3046.15
CW-6	2261496.47	6865616.50	3046.15
CW-7	2261533.50	6865640.94	3046.15
CW-8	2261582.59	6865666.10	3046.15
CW-9	2261654.30	6865621.58	3046.15
CW-10	2261726.00	6865614.02	3046.15
CW-11	2261838.52	6865506.10	3046.15
CW-12	2261959.92	6865250.31	3054.14
CW-13	2262023.94	6865212.18	3056.00
CW-14	2262307.92	6865255.34	3057.17
CW-15	2262499.96	6865391.13	3061.30
CW-16	2262540.12	6865397.84	3060.87
CW-17	2262713.78	6865476.69	3060.88
CW-18	2262760.85	6865511.57	3059.43
CW-19	2262978.17	6865648.34	3060.53
CW-20	2262986.72	6865915.18	3048.35
CW-21	2262945.48	6865985.27	3048.43
CW-22	2262963.13	6866141.84	3047.23
CW-23	2262988.73	6866192.02	3046.15
CW-24	2262968.27	6866273.60	3047.42
CW-25	2262988.42	6866325.50	3046.57
CW-26	2262958.23	6866512.64	3046.15
CW-27	2262903.63	6866582.48	3046.15
CW-28	2262838.46	6866812.03	3049.24
CW-29	2262796.00	6867169.71	3051.82
CW-30	2262872.17	6867306.78	3055.32
CW-31	2262880.56	6867391.59	3056.73
CW-32	2262937.77	6867448.22	3059.63
CW-33	2262966.57	6867561.25	3060.57
CW-34	2263075.00	6867739.20	0.00
CW-35	2263136.38	6867979.26	0.00
CW-36	2263148.02	6868093.16	0.00
CW-37	2263148.65	6868356.87	0.00
CW-38	2263175.93	6868423.45	0.00
CW-39	2263252.78	6868496.82	3077.06
CW-40	2263345.46	6868525.57	3078.14



NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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DATE: 03-17-2023

REVISIONS

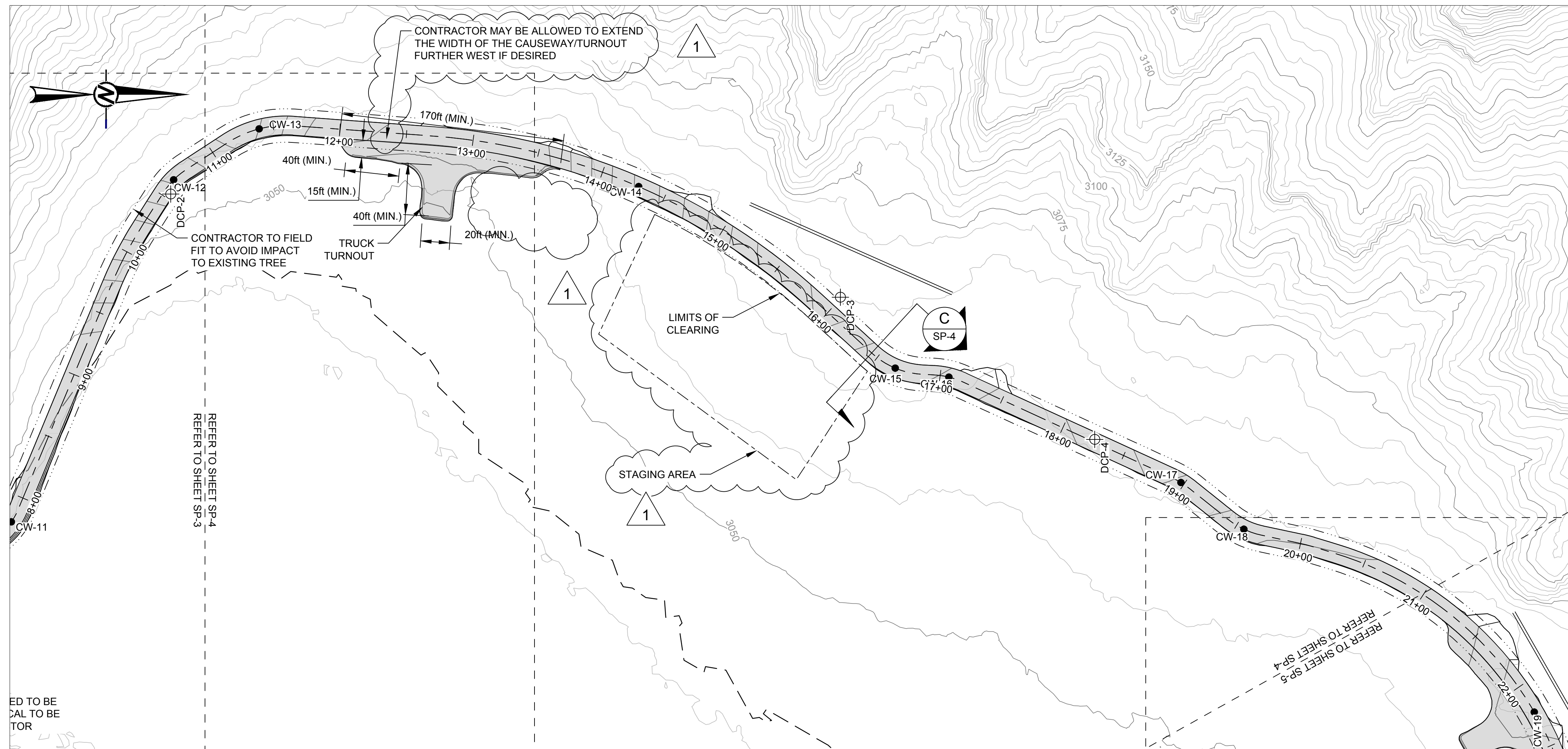
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (1 OF 6)

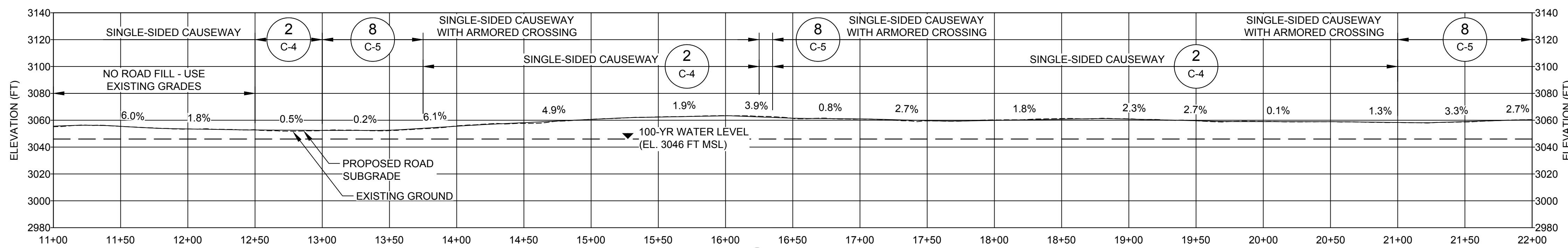
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154490214-04

SHEET NO.
SP-3
04 OF 20

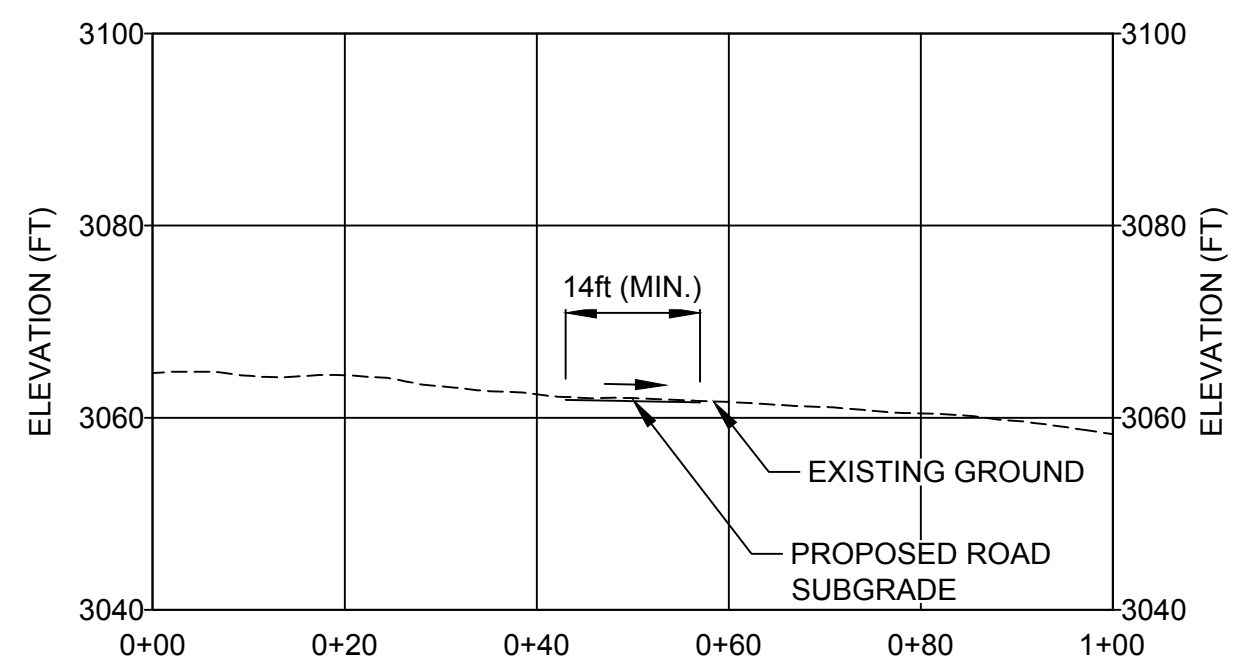
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CAUSEWAY PLAN VIEW
SCALE 1" = 50'



SCALE 1" = 50'
VERT. SCALE 1:1
B CAUSEWAY PROFILE B
SP-4



SCALE 1" = 20'
VERT. SCALE 1:1
C CAUSEWAY SECTION C
SP-4

LEGEND

- 3050 — EXISTING MAJOR CONTOUR (25 FT)
- 3055 — EXISTING MINOR CONTOUR (5 FT)
- - - - 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- ⊕ DYNAMIC CONE PENETROMETER TEST LOCATION
- ▤ ACCESS ROAD
- ▨ ACCESS ROAD TEMPORARY CONSTRUCTION MATS

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NOTE(S)

1. GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
2. EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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DESIGNED: KWW
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DATE: 03-17-2023

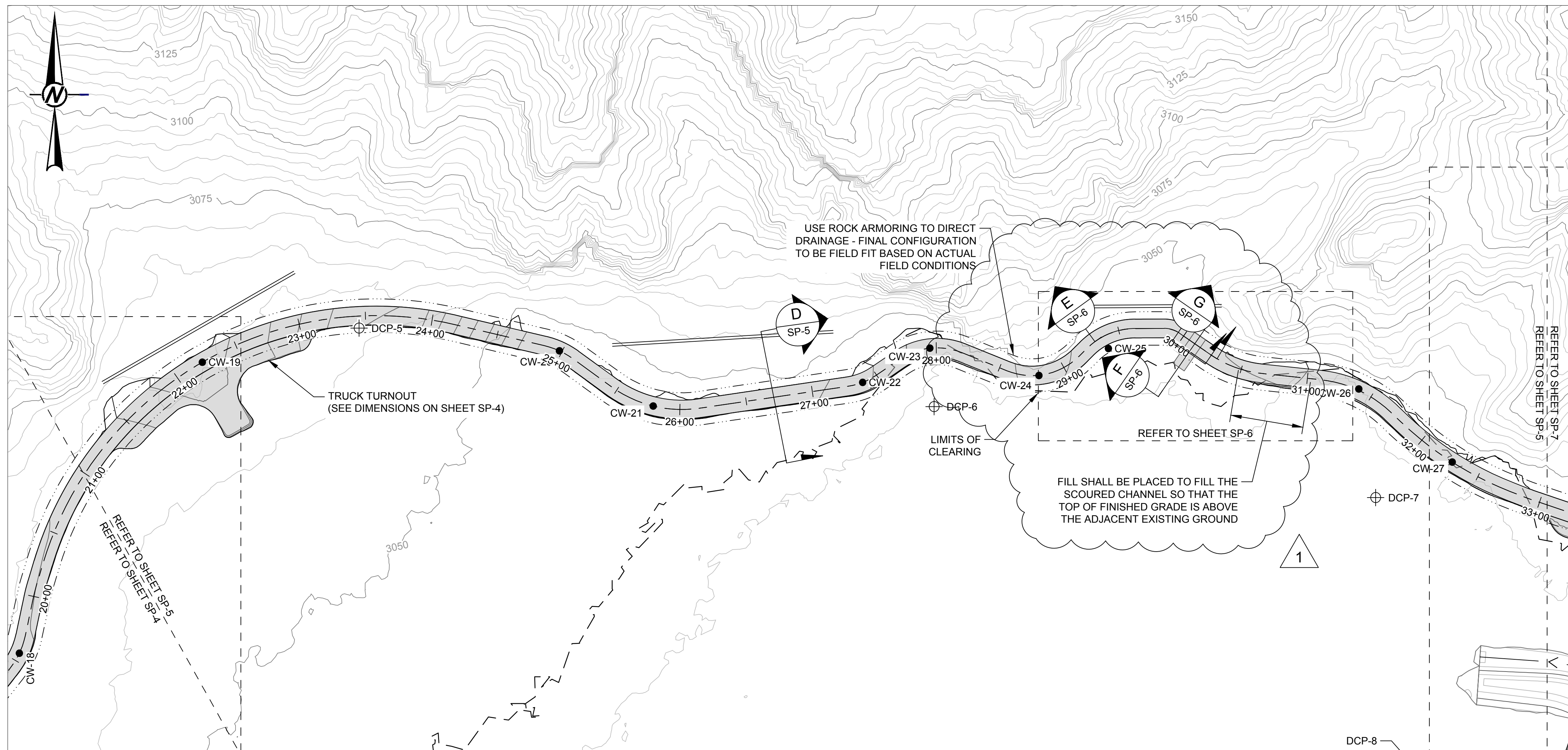
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03/17/23	

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**CAUSEWAY
PLAN AND PROFILE (2 OF 6)**

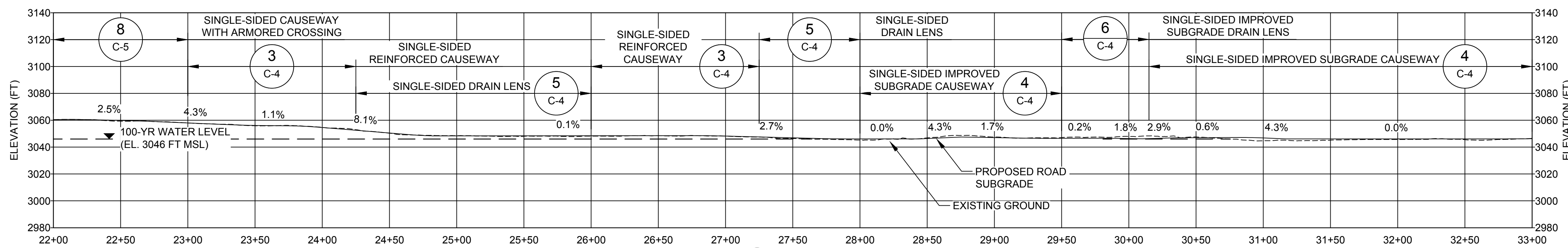
DRAWING NO.
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SHEET NO.
SP-4
05 OF 20

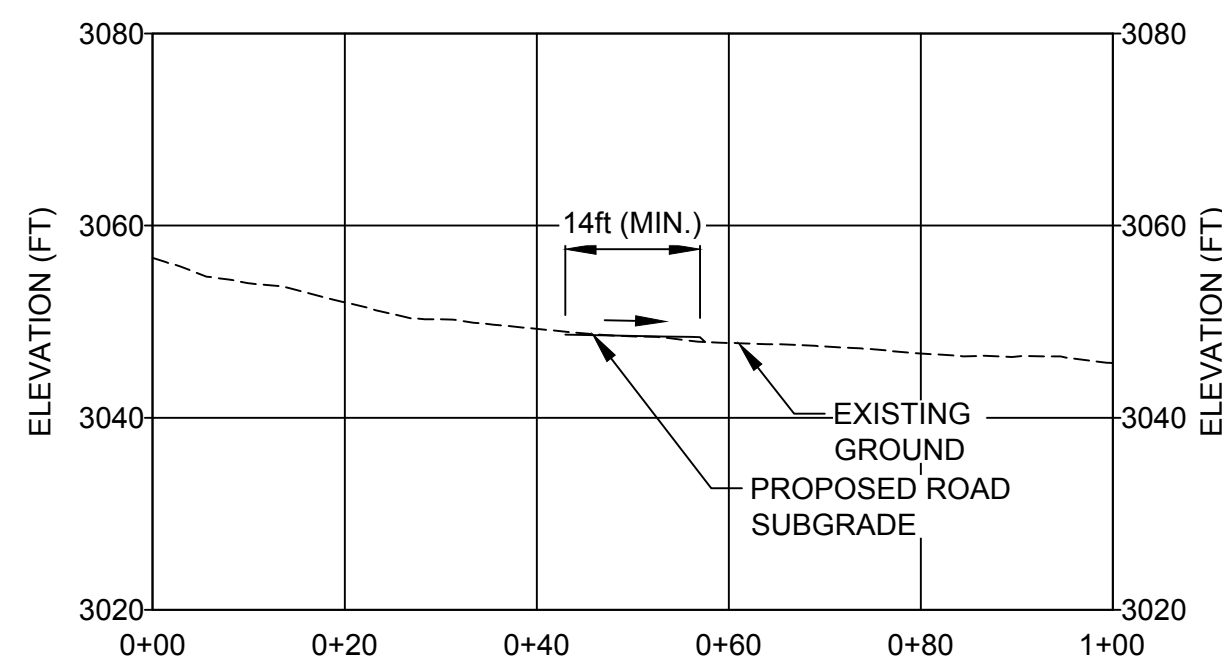
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CAUSEWAY PLAN VIEW
SCALE 1" = 50'



CAUSEWAY PROFILE C
SCALE 1" = 50'
VERT. SCALE 1:1



CAUSEWAY SECTION D
SCALE 1" = 20'
VERT. SCALE 1:1

LEGEND

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CW-27	2262903.63	6866582.48	3046.15
CW-28	2262838.46	6866812.03	3049.24
CW-29	2262796.00	6867169.71	3051.82
CW-30	2262872.17	6867306.78	3055.32
CW-31	2262880.56	6867391.59	3056.73
CW-32	2262937.77	6867448.22	3059.63
CW-33	2262966.57	6867561.25	3060.57
CW-34	2263075.00	6867739.20	0.00
CW-35	2263136.38	6867979.26	0.00
CW-36	2263148.02	6868093.16	0.00
CW-37	2263148.65	6868356.87	0.00
CW-38	2263175.93	6868423.45	0.00
CW-39	2263252.78	6868496.82	3077.06
CW-40	2263345.46	6868525.57	3078.14

NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
- EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



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One Capitol Mall
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Reviewed by _____ Date _____

DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION
CERTIFICATION # _____

Reviewed by _____ Date _____

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER



DESIGNED: KWW
DRAWN: REDMOND
CHECKED: RPCE
DATE: 03-17-2023

REVISIONS	DATE
ISSUED FOR BID	03/17/23

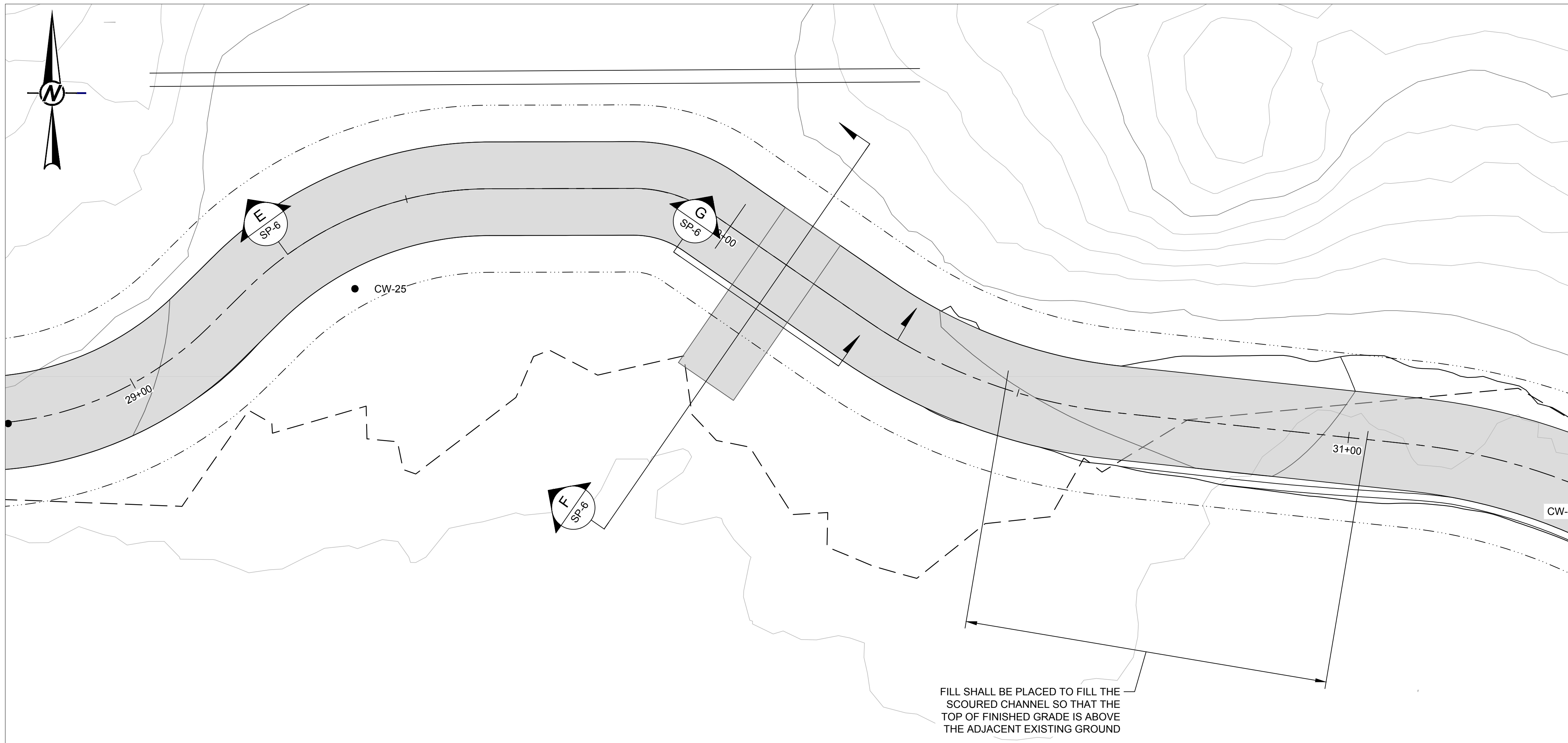
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (3 OF 6)

DRAWING NO.
154490214-06

SHEET NO.
SP-5

06 OF 20

DRAFT
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CAUSEWAY PLAN VIEW
SCALE 1" = 10'

LEGEND

- 3050 EXISTING MAJOR CONTOUR (25 FT)
- 3055 EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS



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DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION CERTIFICATION # _____

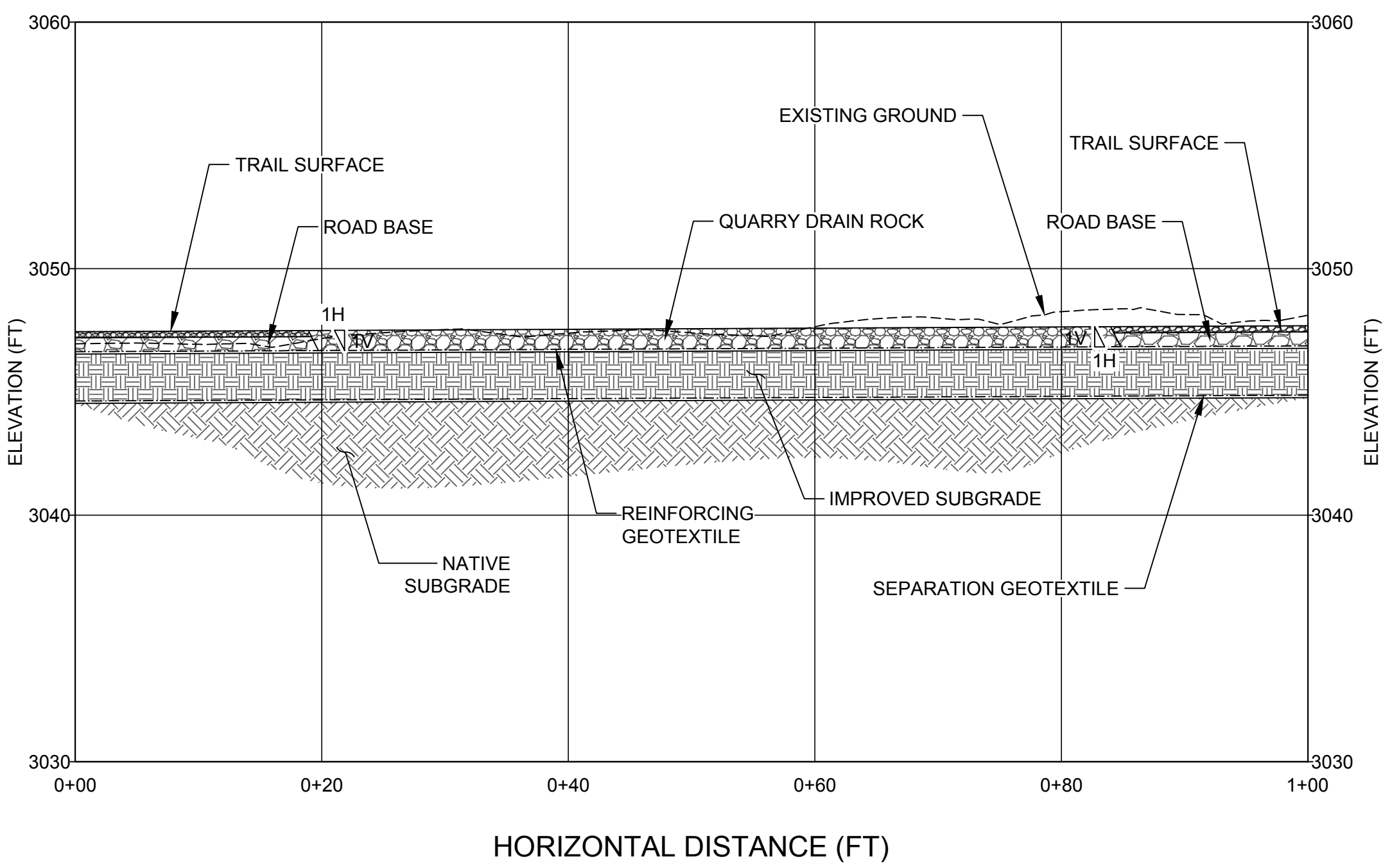
Reviewed by _____ Date _____

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

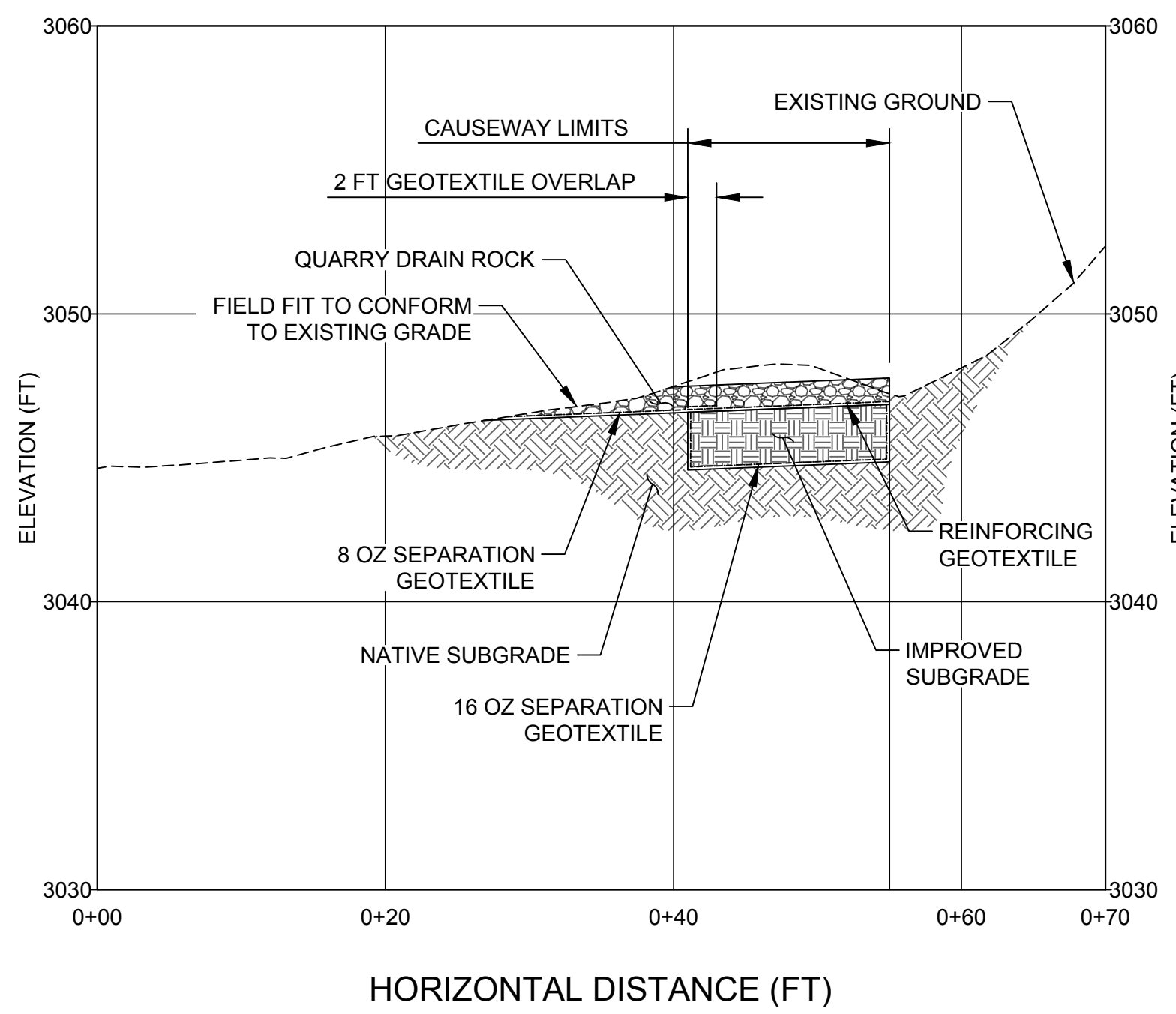


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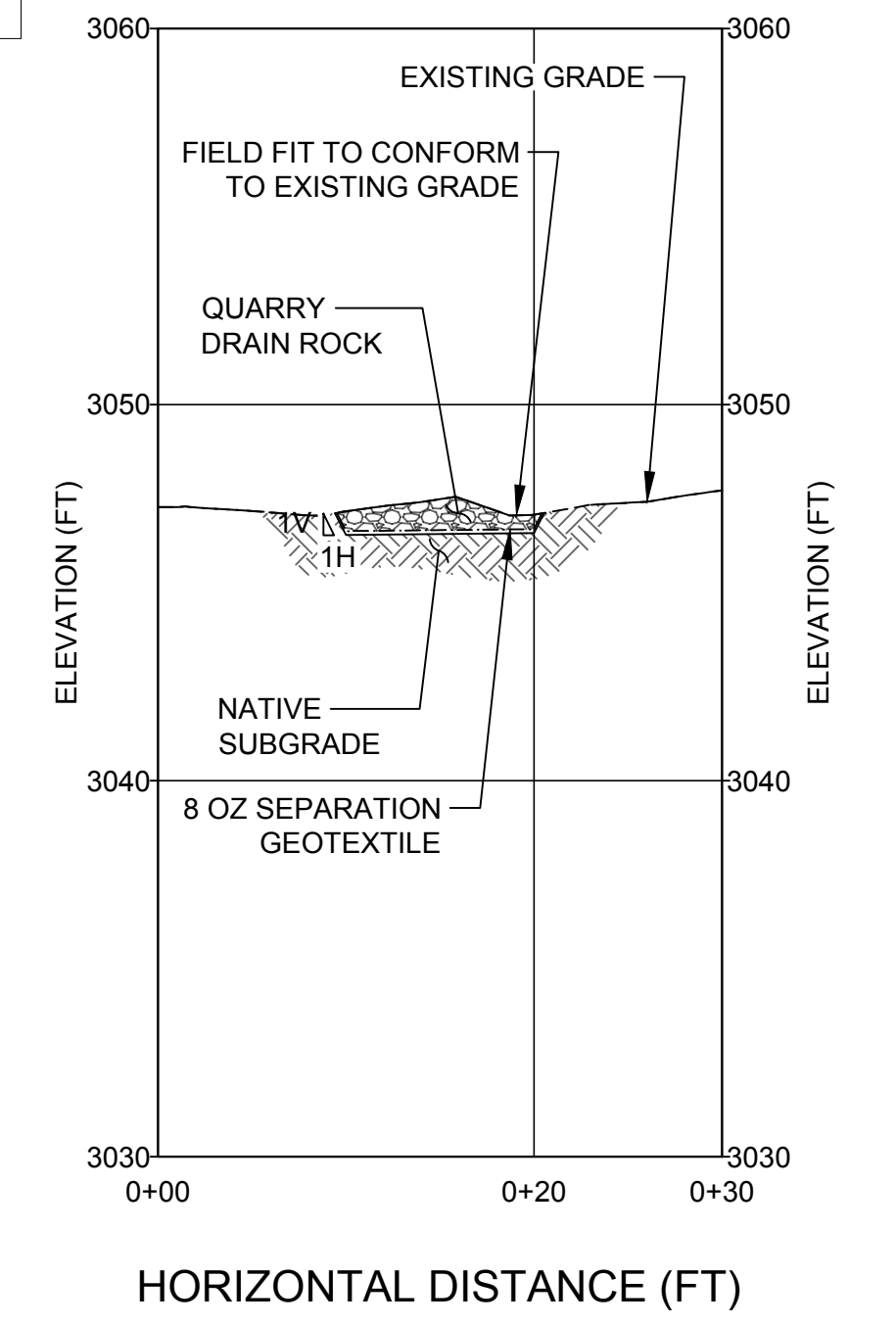
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DATE	
ISSUED FOR BID	03/17/23



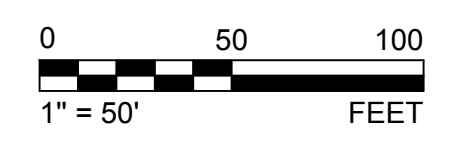
SCALE 1" = 10'
VERT. SCALE 1:2
E CAUSEWAY SECTION E
SP-6



SCALE 1" = 10'
VERT. SCALE 1:2
F CAUSEWAY SECTION F
SP-6



SCALE 1" = 10'
VERT. SCALE 1:2
G CAUSEWAY SECTION G
SP-6



- NOTE(S)**
- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
 - EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.

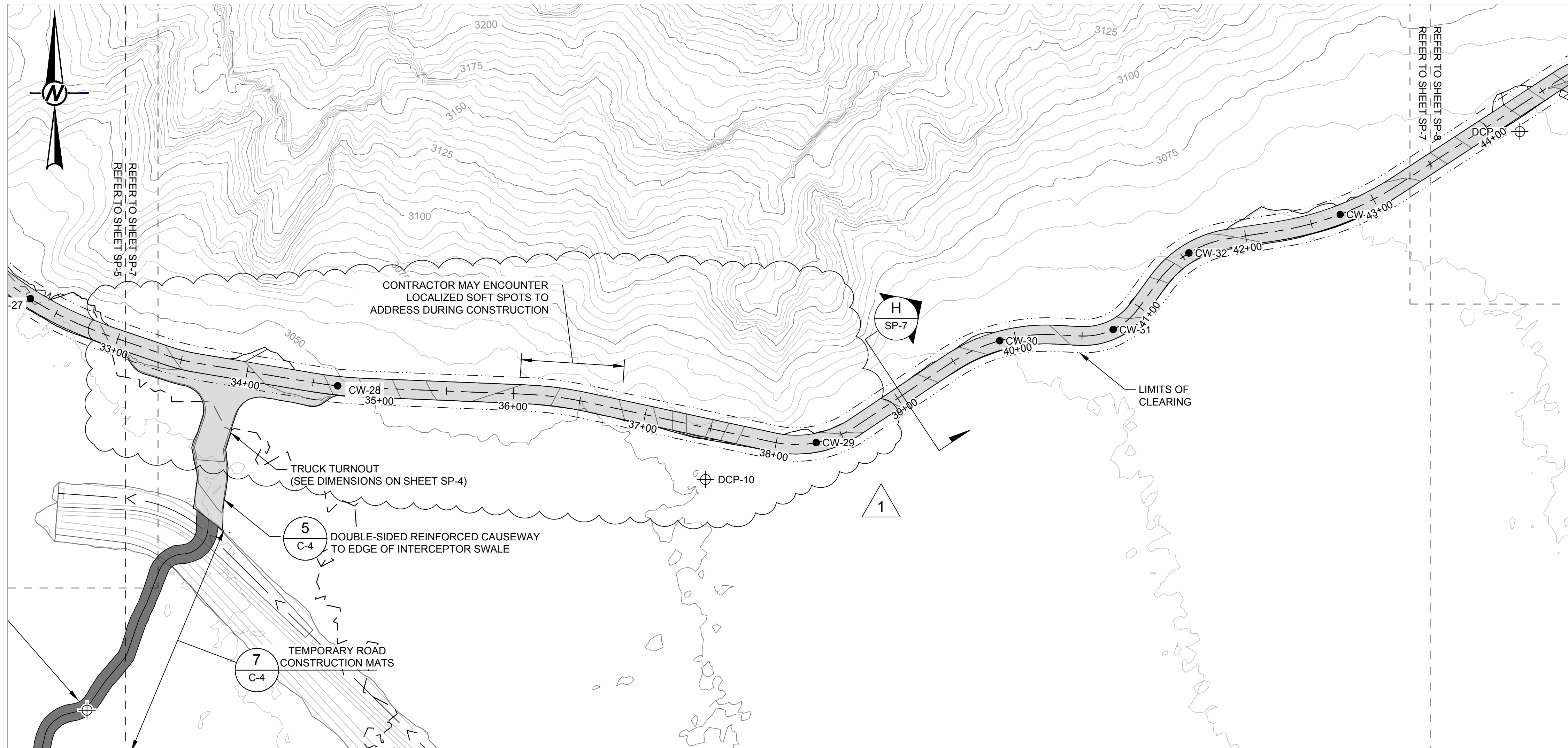
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (4 OF 6)

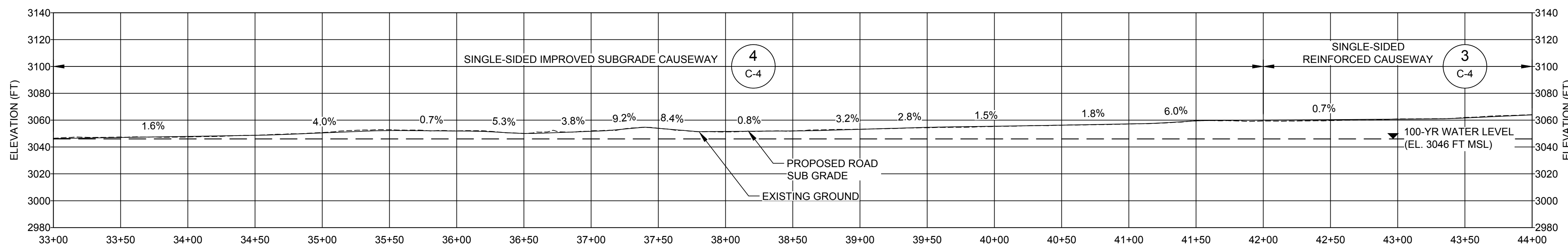
DRAWING NO.
154490214-06

SHEET NO.
SP-6

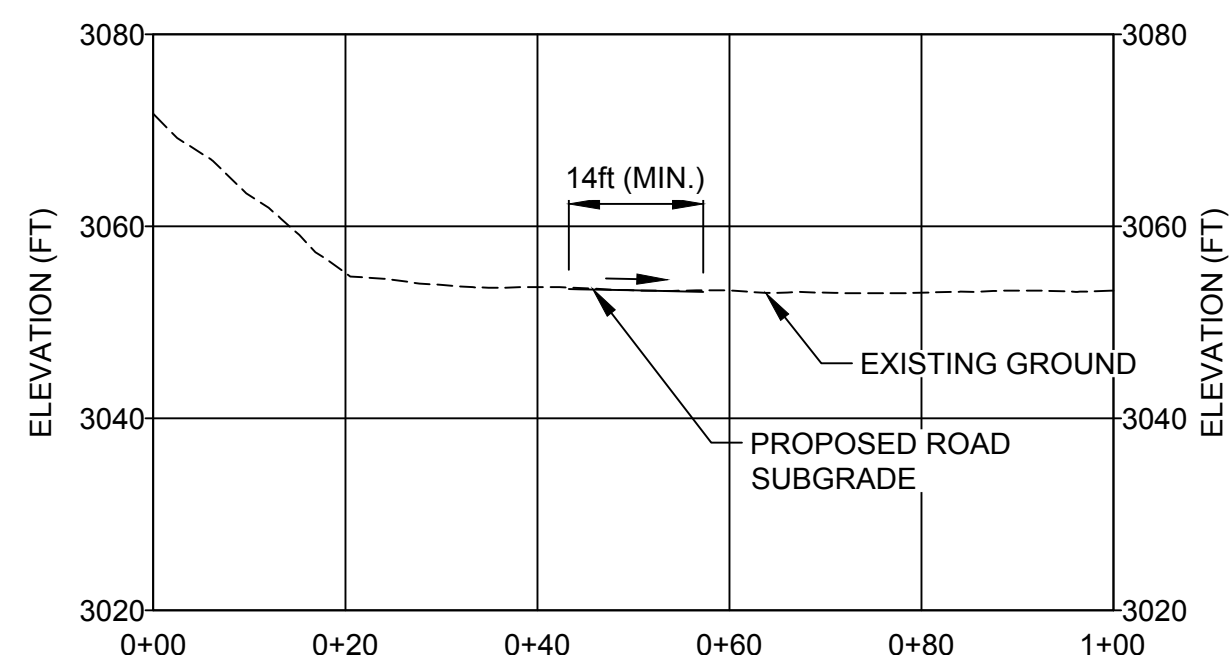
07 OF 20



CAUSEWAY PLAN VIEW
SCALE 1" = 50'



SCALE 1" = 50'
VERT. SCALE 1:1
D CAUSEWAY PROFILE D
SP-7



SCALE 1" = 20'
VERT. SCALE 1:1
H CAUSEWAY SECTION H
SP-7

LEGEND

- 3050 EXISTING MAJOR CONTOUR (25 FT)
- 3055 EXISTING MINOR CONTOUR (5 FT)
- 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- DYNAMIC CONE PENETROMETER TEST LOCATION
- ACCESS ROAD
- ACCESS ROAD TEMPORARY CONSTRUCTION MATS

CONTROL POINT TABLE

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
CW-1	2261233.52	6865466.48	3072.86
CW-2	2261275.30	6865562.43	3062.14
CW-3	2261297.61	6865599.64	3057.64
CW-4	2261325.81	6865618.86	3054.08
CW-5	2261420.83	6865632.35	3046.15
CW-6	2261496.47	6865616.50	3046.15
CW-7	2261533.50	6865640.94	3046.15
CW-8	2261582.59	6865666.10	3046.15
CW-9	2261654.30	6865621.58	3046.15
CW-10	2261726.00	6865614.02	3046.15
CW-11	2261838.52	6865506.10	3046.15
CW-12	2261959.92	6865250.31	3054.14
CW-13	2262023.94	6865212.18	3056.00
CW-14	2262307.92	6865255.34	3057.17
CW-15	2262499.96	6865391.13	3061.30
CW-16	2262540.12	6865397.84	3060.87
CW-17	2262713.78	6865476.69	3060.88
CW-18	2262760.85	6865511.57	3059.43
CW-19	2262978.17	6865648.34	3060.53
CW-20	2262986.72	6865915.18	3048.35
CW-21	2262945.48	6865985.27	3048.43
CW-22	2262963.13	6866141.84	3047.23
CW-23	2262988.73	6866192.02	3046.15
CW-24	2262968.27	6866273.60	3047.42
CW-25	2262988.42	6866325.50	3046.57
CW-26	2262958.23	6866512.64	3046.15
CW-27	2262903.63	6866582.48	3046.15
CW-28	2262838.46	6866812.03	3049.24
CW-29	2262796.00	6867169.71	3051.82
CW-30	2262872.17	6867306.78	3055.32
CW-31	2262880.56	6867391.59	3056.73
CW-32	2262937.77	6867448.22	3059.63
CW-33	2262966.57	6867561.25	3060.57
CW-34	2263075.00	6867739.20	0.00
CW-35	2263136.38	6867979.26	0.00
CW-36	2263148.02	6868093.16	0.00
CW-37	2263148.65	6868356.87	0.00
CW-38	2263175.93	6868423.45	0.00
CW-39	2263252.78	6868496.82	3077.06
CW-40	2263345.46	6868525.57	3078.14

NOTE(S)

- GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
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CERTIFICATION # _____

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DESIGNED: KWW
DRAWN: REDMOND
CHECKED: RPCE
DATE: 03-17-2023

REVISIONS

NO.	DATE
1	03/17/23

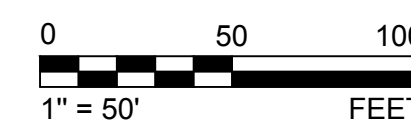
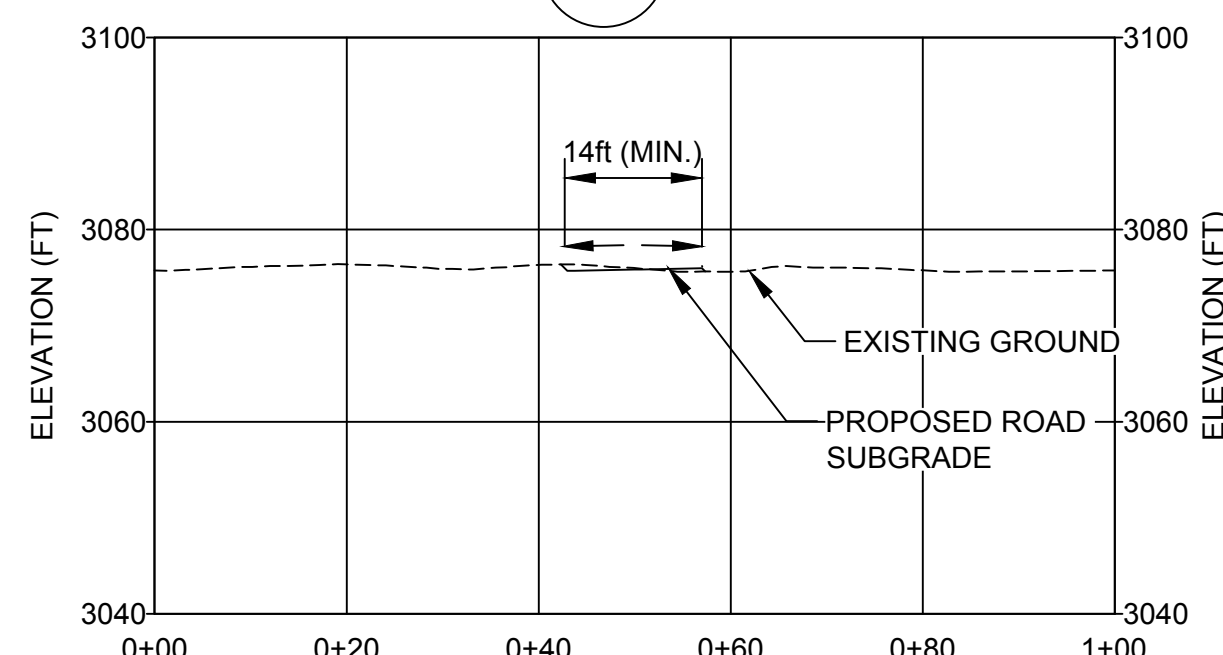
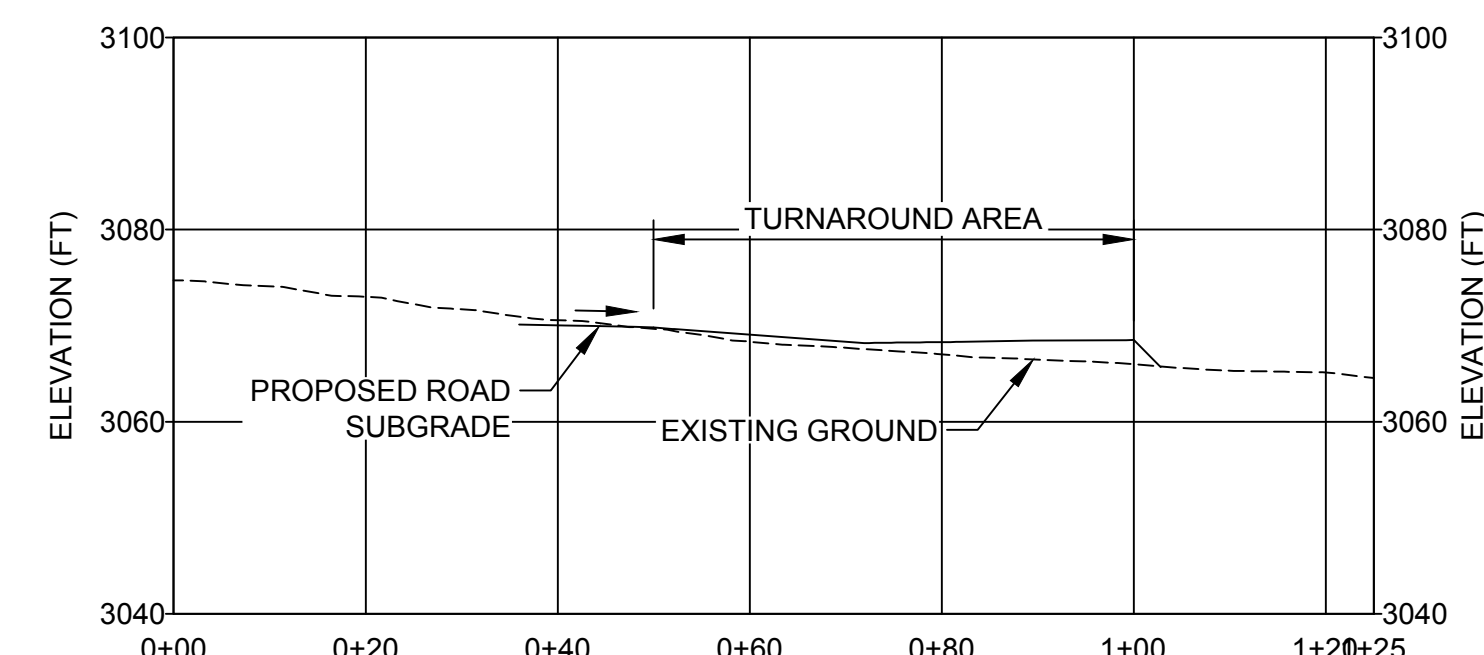
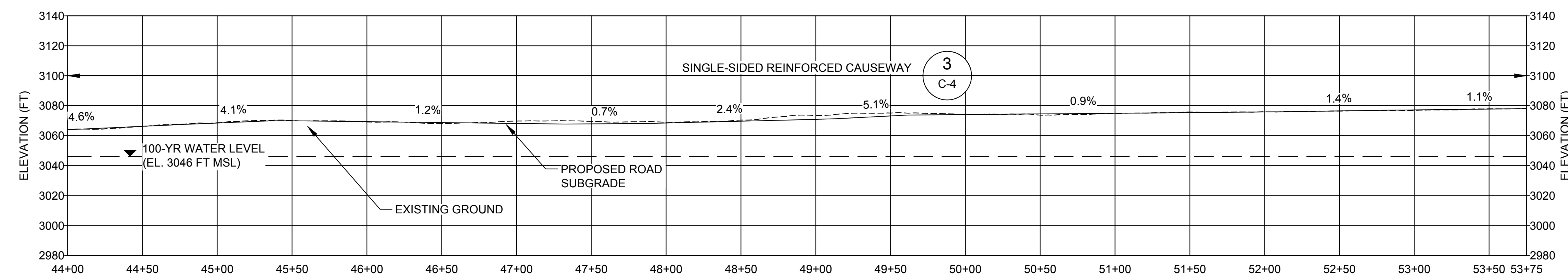
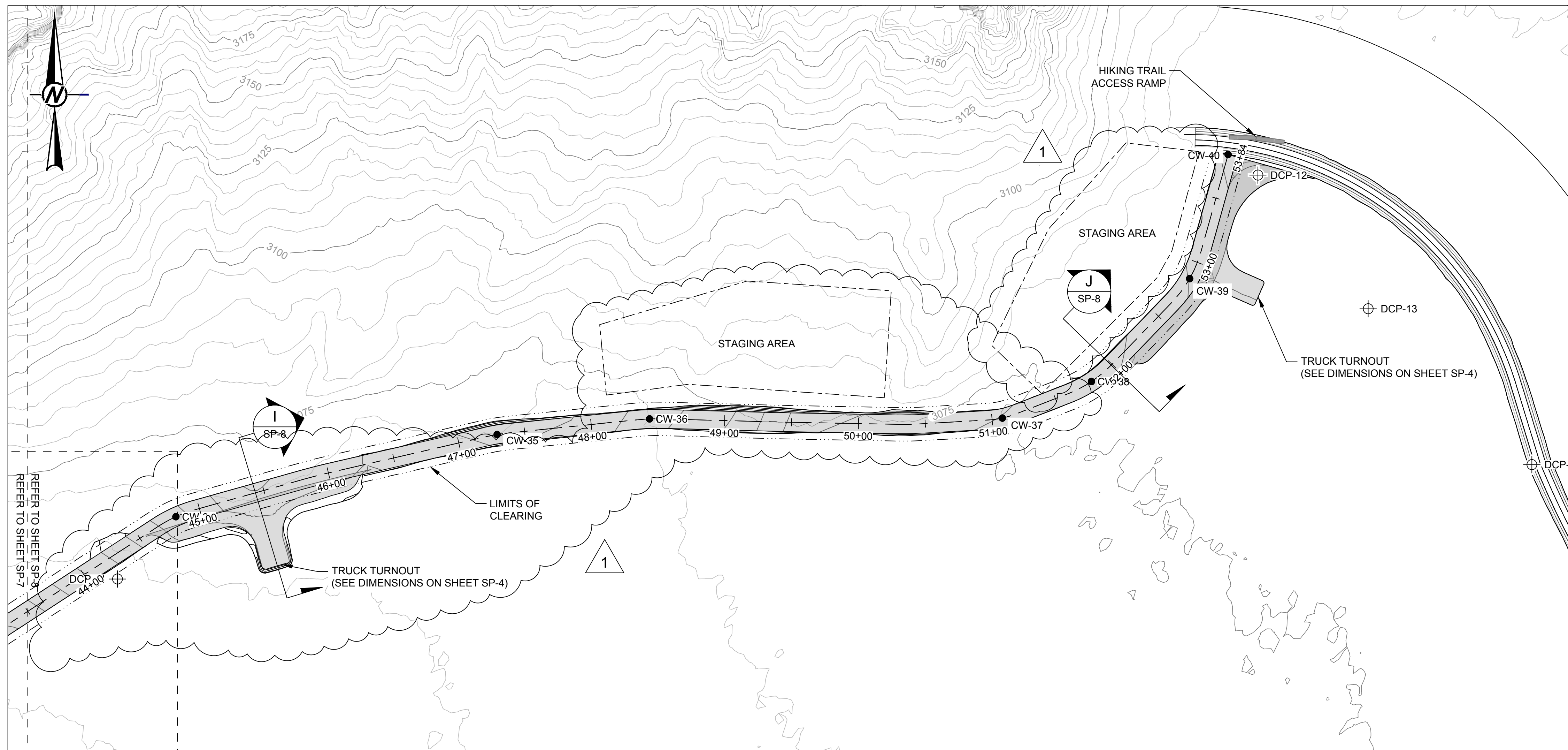
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (5 OF 6)

DRAWING NO.
154490214-07

SHEET NO.
SP-7

08 OF 20

DRAFT
NOT FOR CONSTRUCTION



LEGEND

- 3050 — EXISTING MAJOR CONTOUR (25 FT)
- 3055 — EXISTING MINOR CONTOUR (5 FT)
- - - - 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- ⊕ DYNAMIC CONE PENETROMETER TEST LOCATION
- ▤ ACCESS ROAD
- ▨ ACCESS ROAD TEMPORARY CONSTRUCTION MATS

CONTROL POINT TABLE

POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
CW-1	2261233.52	6865466.48	3072.86
CW-2	2261275.30	6865562.43	3062.14
CW-3	2261297.61	6865599.64	3057.64
CW-4	2261325.81	6865618.86	3054.08
CW-5	2261420.83	6865632.35	3046.15
CW-6	2261496.47	6865616.50	3046.15
CW-7	2261533.50	6865640.94	3046.15
CW-8	2261582.59	6865666.10	3046.15
CW-9	2261654.30	6865621.58	3046.15
CW-10	2261726.00	6865614.02	3046.15
CW-11	2261838.52	6865506.10	3046.15
CW-12	2261959.92	6865250.31	3054.14
CW-13	2262023.94	6865212.18	3056.00
CW-14	2262307.92	6865255.34	3057.17
CW-15	2262499.96	6865391.13	3061.30
CW-16	2262540.12	6865397.84	3060.87
CW-17	2262713.78	6865476.69	3060.88
CW-18	2262760.85	6865511.57	3059.43
CW-19	2262978.17	6865648.34	3060.53
CW-20	2262986.72	6865915.18	3048.35
CW-21	2262945.48	6865985.27	3048.43
CW-22	2262963.13	6866141.84	3047.23
CW-23	2262988.73	6866192.02	3046.15
CW-24	2262968.27	6866273.60	3047.42
CW-25	2262988.42	6866325.50	3046.57
CW-26	2262958.23	6866512.64	3046.15
CW-27	2262903.63	6866582.48	3046.15
CW-28	2262838.46	6866812.03	3049.24
CW-29	2262796.00	6867169.71	3051.82
CW-30	2262872.17	6867306.78	3055.32
CW-31	2262880.56	6867391.59	3056.73
CW-32	2262937.77	6867448.22	3059.63
CW-33	2262966.57	6867561.25	3060.57
CW-34	2263075.00	6867739.20	0.00
CW-35	2263136.38	6867979.26	0.00
CW-36	2263148.02	6868093.16	0.00
CW-37	2263148.65	6868356.87	0.00
CW-38	2263175.93	6868423.45	0.00
CW-39	2263252.78	6868496.82	3077.06
CW-40	2263345.46	6868525.57	3078.14

NOTE(S)

1. GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
2. EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.

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Reviewed by _____ Date _____
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CERTIFICATION # _____
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DESIGNED: KWW
DRAWN: REDMOND
CHECKED: RPCE
DATE: 03-17-2023

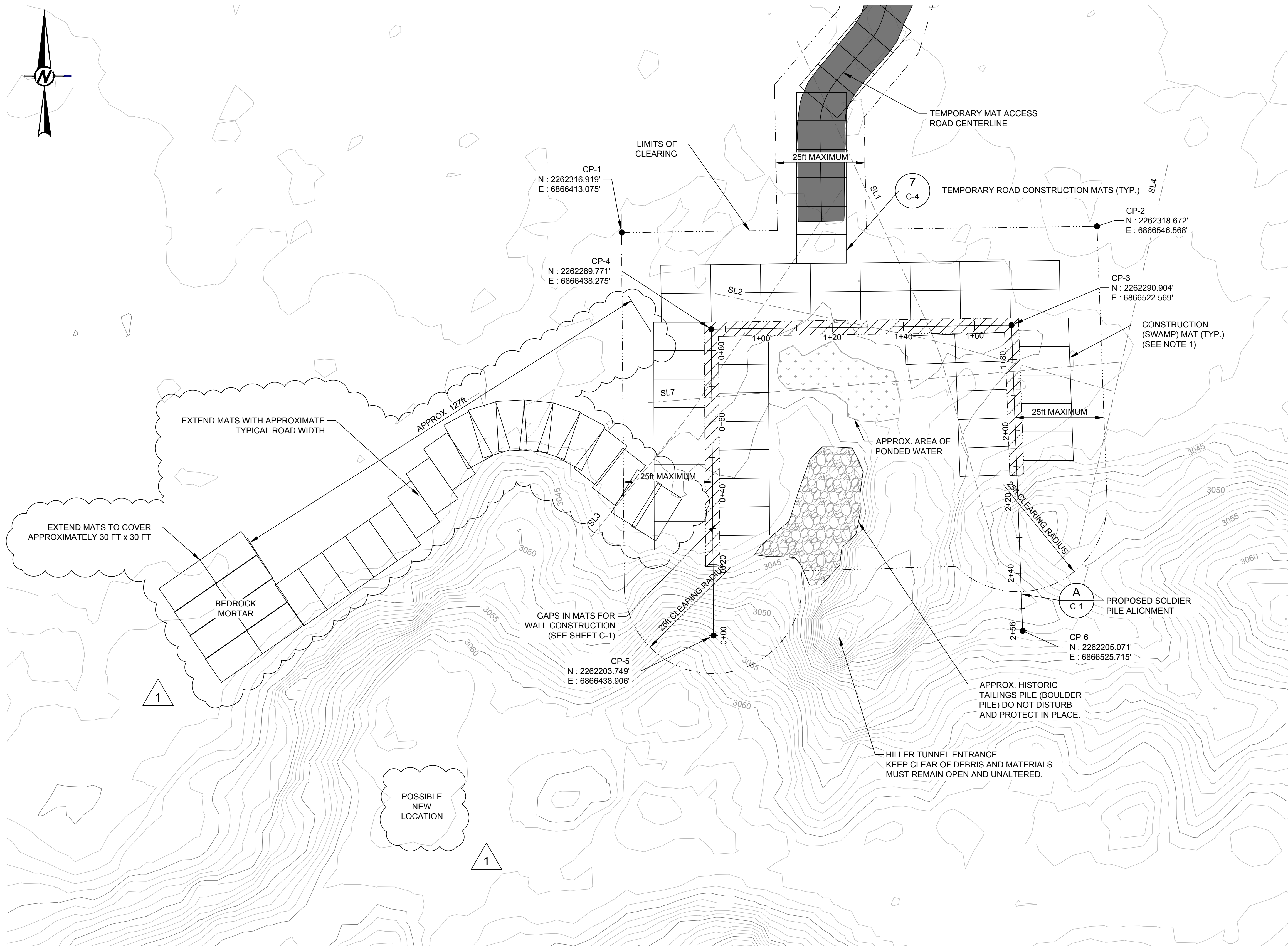
REVISIONS

NO.	DATE
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY
PLAN AND PROFILE (6 OF 6)

DRAWING NO.
154490214-08

SHEET NO.
SP-8
09 OF 20



LEGEND

— 3050 —	EXISTING MAJOR CONTOUR (5 FT)
— 3051 —	EXISTING MINOR CONTOUR (1 FT)
SL1	GEOPHYSICS SEISMIC LINE
[Stippled Box]	APPROX. AREA OF PONDED WATER
[Boulder Pattern Box]	APPROX. AREA OF HISTORIC TAILINGS PILE
[Diagonal Hatching Box]	APPROX. GAP AREA NEEDED FOR PILE INSTALLATION
[Solid Black Box]	ACCESS ROAD ACROSS PIT (PREVIOUSLY CLEARED)
⊕ GAB-1	GEO TECHNICAL BORING LOCATION
⊕ VST-1	GEO TECHNICAL VANE SHEAR TEST LOCATION



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CERTIFICATION # _____

Reviewed by _____ Date _____

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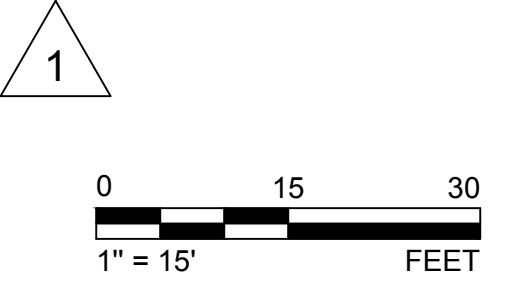
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DRAWN: REDMOND
CHECKED: RPCE
DATE: 03-17-2023

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DATE	
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
HILLER TUNNEL AREA SITE PREPARATION PLAN

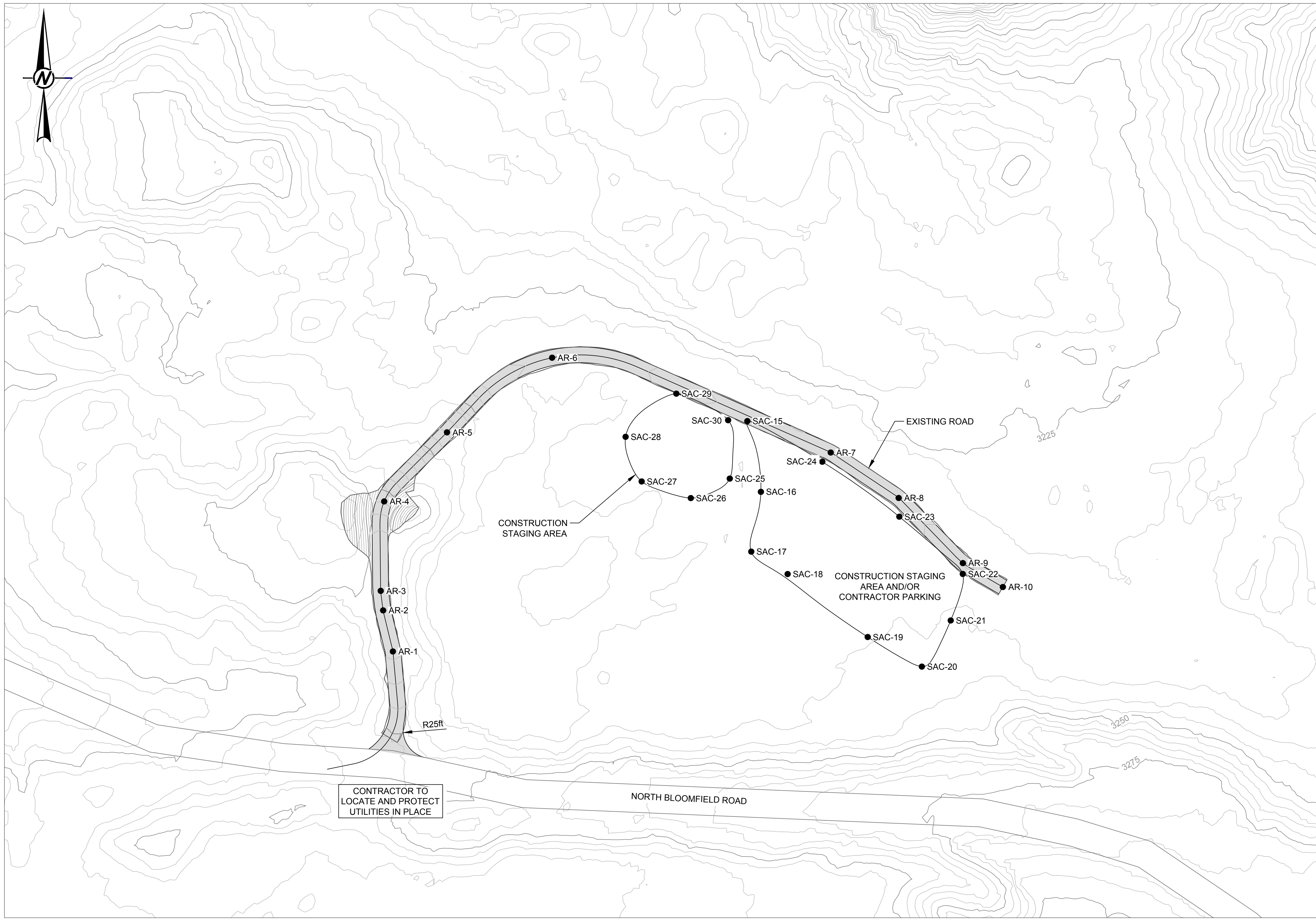
DRAWING NO.
154490214-09

SHEET NO.
SP-9
10 OF 20



NOTE(S)
1. SWAMP MAT PLACEMENT SHOW FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LOCATION DEPENDENT ON CONTRACTOR MEANS AND METHODS FOR PILE WALL INSTALLATION, BUT MUST NOT EXTEND OUTSIDE THE LIMITS OF CLEARING SHOWN.
2. EXISTING GROUND CONTOURS TAKEN FROM DATA PROVIDED TO THE CLIENT BY INC., DATED 2017.

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LEGEND

- 3050 — EXISTING MAJOR CONTOUR (25 FT)
- 3055 — EXISTING MINOR CONTOUR (5 FT)
- - - - - 100-YR FLOOD WATER LEVEL (EL. 3046 FT MSL)
- BRUSH DAM
- PROPOSED ROCK GRADE CONTROL STRUCTURE EXTENTS
- ⊕ DYNAMIC CONE PENETROMETER TEST LOCATION
- ▤ ACCESS ROAD
- ▨ ACCESS ROAD TEMPORARY CONSTRUCTION MATS

CONTROL POINT TABLE			
POINT NO.	NORTHING (FT)	EASTING (FT)	ELEVATION (FT)
AR-1	2262071.32	6869753.13	3248.28
AR-2	2262107.94	6869744.49	3248.58
AR-3	2262125.35	6869742.36	3248.68
AR-4	2262205.13	6869745.41	3245.90
AR-5	2262266.76	6869801.40	3237.98
AR-6	2262333.35	6869895.13	3231.73
AR-7	2262248.80	6870143.56	3232.37
AR-8	2262208.24	6870204.18	3232.45
AR-9	2262150.14	6870261.43	3234.00
AR-10	2262128.75	6870297.08	3233.35
SAC-15	2262276.79	6870069.24	3232.38
SAC-16	2262213.68	6870081.32	3231.57
SAC-17	2262160.36	6870072.73	3231.86
SAC-18	2262140.38	6870105.20	3231.71
SAC-19	2262084.22	6870176.59	3234.58
SAC-20	2262057.81	6870224.88	3236.03
SAC-21	2262099.00	6870250.61	3235.11
SAC-22	2262140.46	6870261.36	3234.32
SAC-23	2262191.54	6870204.77	3233.36
SAC-24	2262240.53	6870136.06	3231.59
SAC-25	2262225.54	6870053.55	3232.67
SAC-26	2262208.15	6870018.83	3232.63
SAC-27	2262222.99	6869975.04	3233.24
SAC-28	2262262.81	6869960.71	3230.73
SAC-29	2262301.30	6870005.89	3232.82
SAC-30	2262277.62	6870052.10	3232.71

NOTE(S)

1. GEOTECHNICAL SAMPLING INFORMATION PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT (GOLDER DRAFT MARCH 1, 2021)
2. EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING, INC., DATED 2017.



ACQUISITION & DEVELOPMENT DIVISION
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CERTIFICATION # _____
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DESIGNED: KWW
DRAWN: REDMOND
CHECKED: RPCE
DATE: 03-17-2023

REVISIONS	
DATE	ISSUED FOR BID
03/17/23	

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**SHOOTING RANGE SITE
PREPARATION PLAN**

DRAWING NO.
154490214-010

SHEET NO.
SP-10
11 OF 20

DRAFT
NOT FOR CONSTRUCTION



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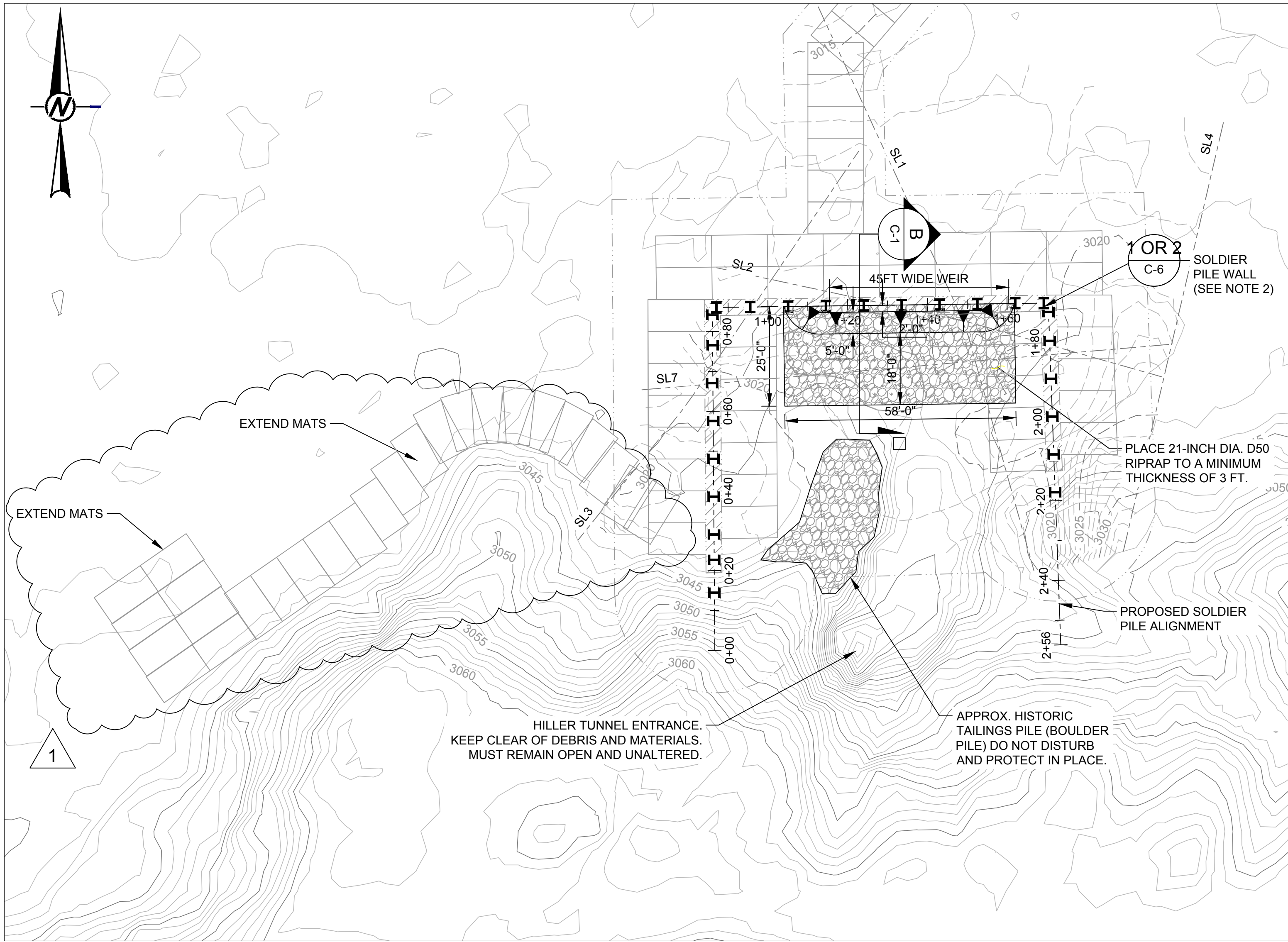
DESIGNED: KWW
DRAWN: REDMOND
CHECKED: RPCE
DATE: 03-17-2023

REVISIONS	
DATE	ISSUED FOR BID
03/17/23	

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
SOLDIER PILE WALL PLAN AND PROFILE

DRAWING NO.
154490214-11

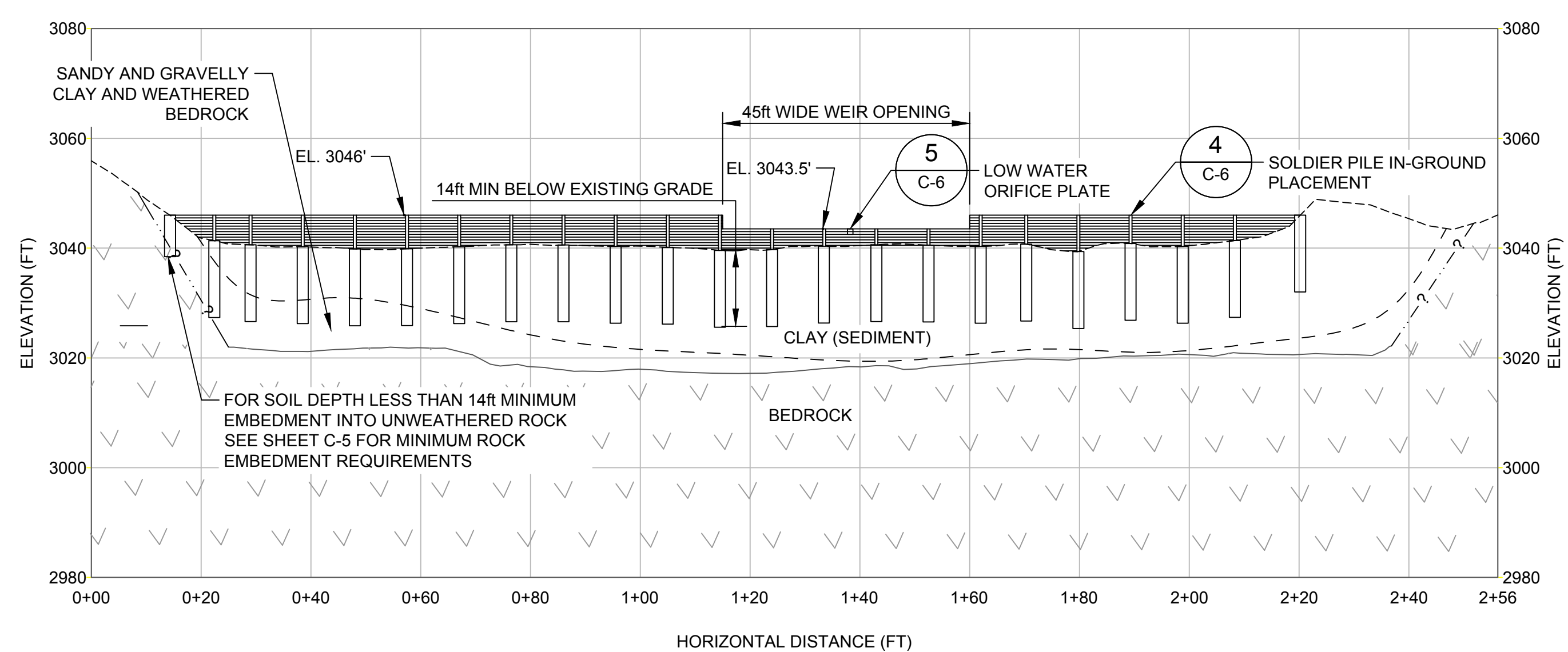
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C-1
12 OF 20



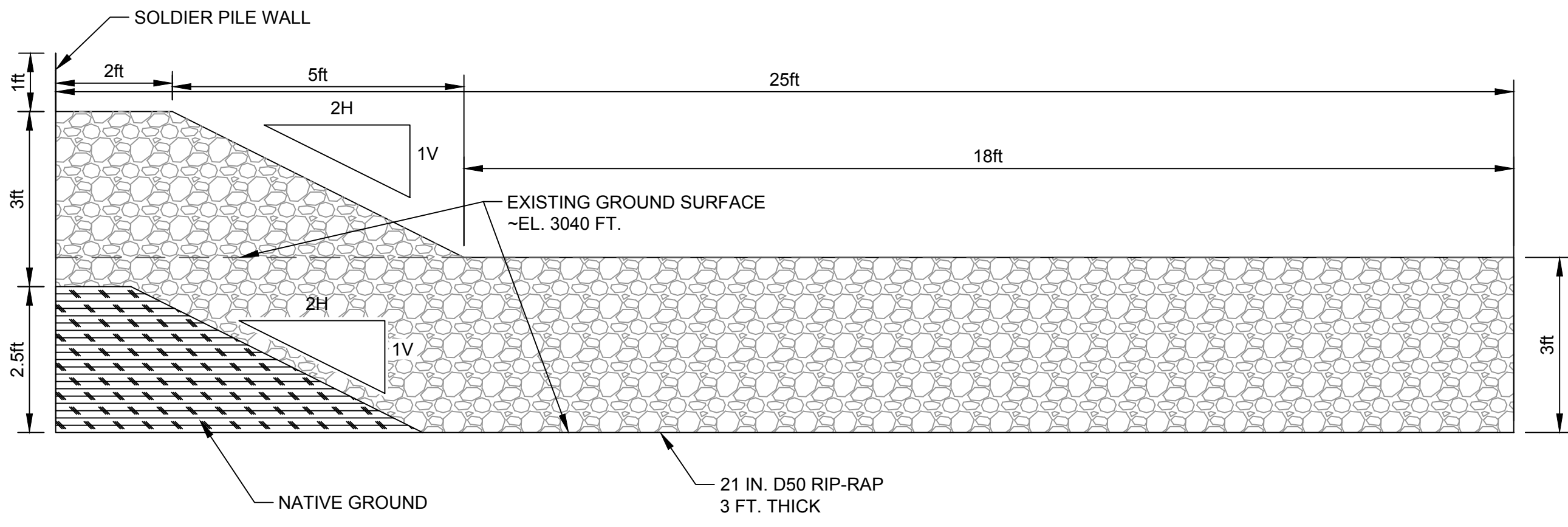
- LEGEND**
- 3050 — EXISTING MAJOR CONTOUR (5 FT)
 - 3051 — EXISTING MINOR CONTOUR (1 FT)
 - - 3000 - - ESTIMATED TOP OF ROCK MAJOR CONTOUR (5 FT)
 - - 3001 - - ESTIMATED TOP OF ROCK MINOR CONTOUR (1 FT)
 - SL1 - - - - GEOPHYSICS SEISMIC LINE (SEE NOTE 1)
 - [Pattern] APPROX. AREA OF PONDED WATER
 - [Pattern] APPROX. AREA OF HISTORIC TAILINGS PILE (DO NOT DISTURB)
 - ⊕ GAB-1 GEOTECHNICAL BORING LOCATION (SEE NOTE 1)
 - ⊕ VST-1 GEOTECHNICAL VANE SHEAR TEST LOCATION (SEE NOTE 1)

1 HILLER TUNNEL AREA
C-1

1
0 20 40
1" = 20' FEET



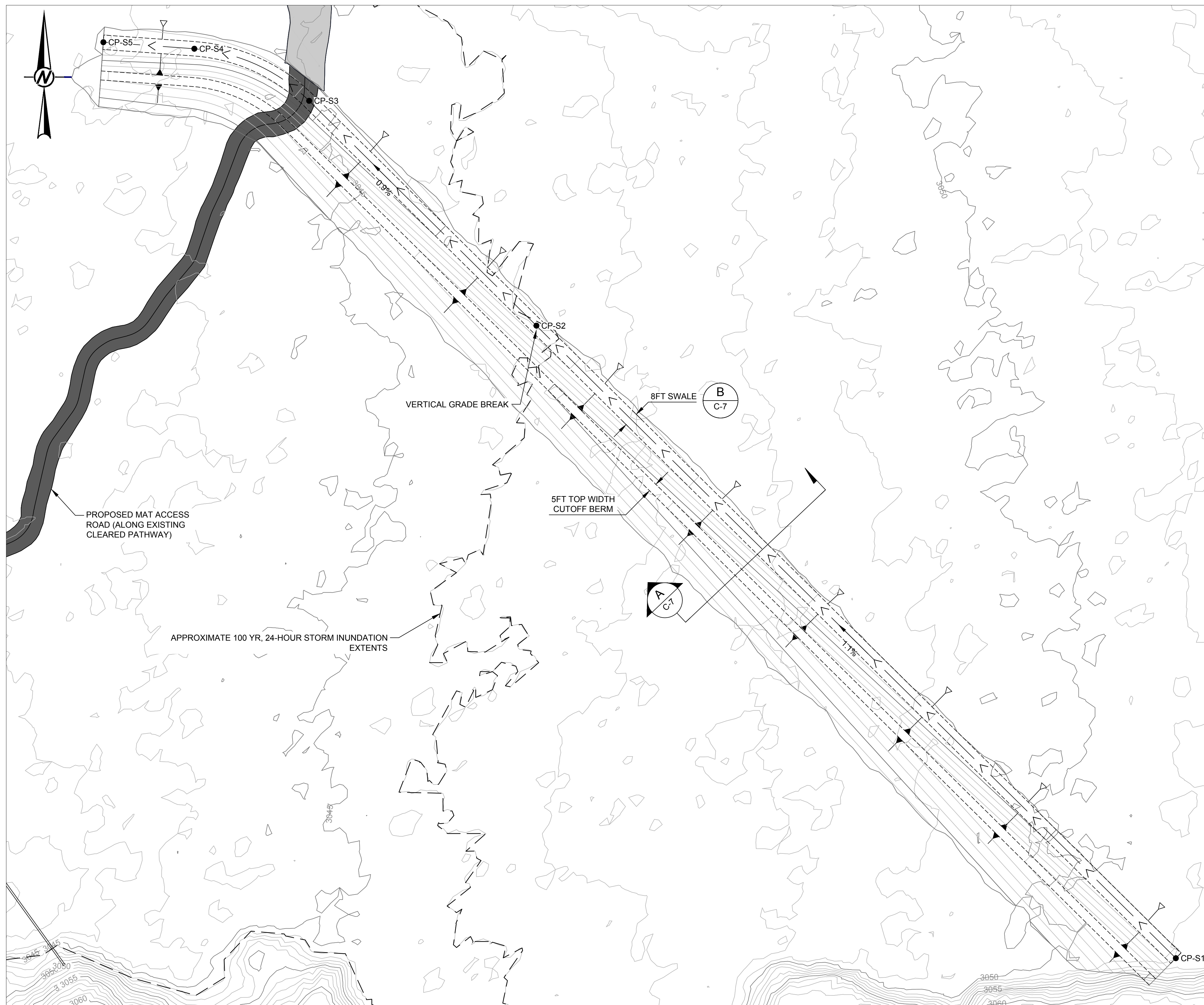
A SOLDIER PILE WALL - PROFILE
SP-9 & C-1



B RIPRAP APRON
C-1

- NOTE(S)**
- MATERIAL BOUNDARIES IN PROFILE ARE APPROXIMATE BASED ON INTERPRETATION OF BORING LOGS AND SEISMIC DATA.
 - LOCATION AND SPACING OF WIDE-FLANGE STEEL BEAMS AS SHOWN ARE APPROXIMATE.

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LEGEND

- 3050 — EXISTING MAJOR CONTOUR (5 FT)
- 3051 — EXISTING MINOR CONTOUR (1 FT)
- 3050 — PROPOSED MAJOR CONTOUR (5 FT)
- 3051 — PROPOSED MINOR CONTOUR (1 FT)
- ▽ CUT SLOPE
- ▲ FILL SLOPE

INTERCEPTOR SWALE CONTROL POINT TABLE

POINT NO.	NORTHING (FT)	EASTING (FT)	PROPOSED ELEV.
CP-S1	2262248.99	6867199.48	3051.0
CP-S2	2262600.60	6866843.99	3045.7
CP-S3	2262725.58	6866717.63	3044.1
CP-S4	2262754.51	6866653.82	3043.4
CP-S5	2262758.14	6866603.23	3043.0



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 DRAWN: REDMOND
 CHECKED: RPCE
 DATE: 03-17-2023

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REVISION	DATE
ISSUED FOR BID	03/17/23

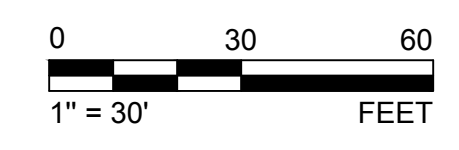
MALAKOFF DIGGINS STATE HISTORIC PARK
 PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**INTERCEPTOR SWALE
 INSTALLATION PLAN**

DRAWING NO.
 154490214-12

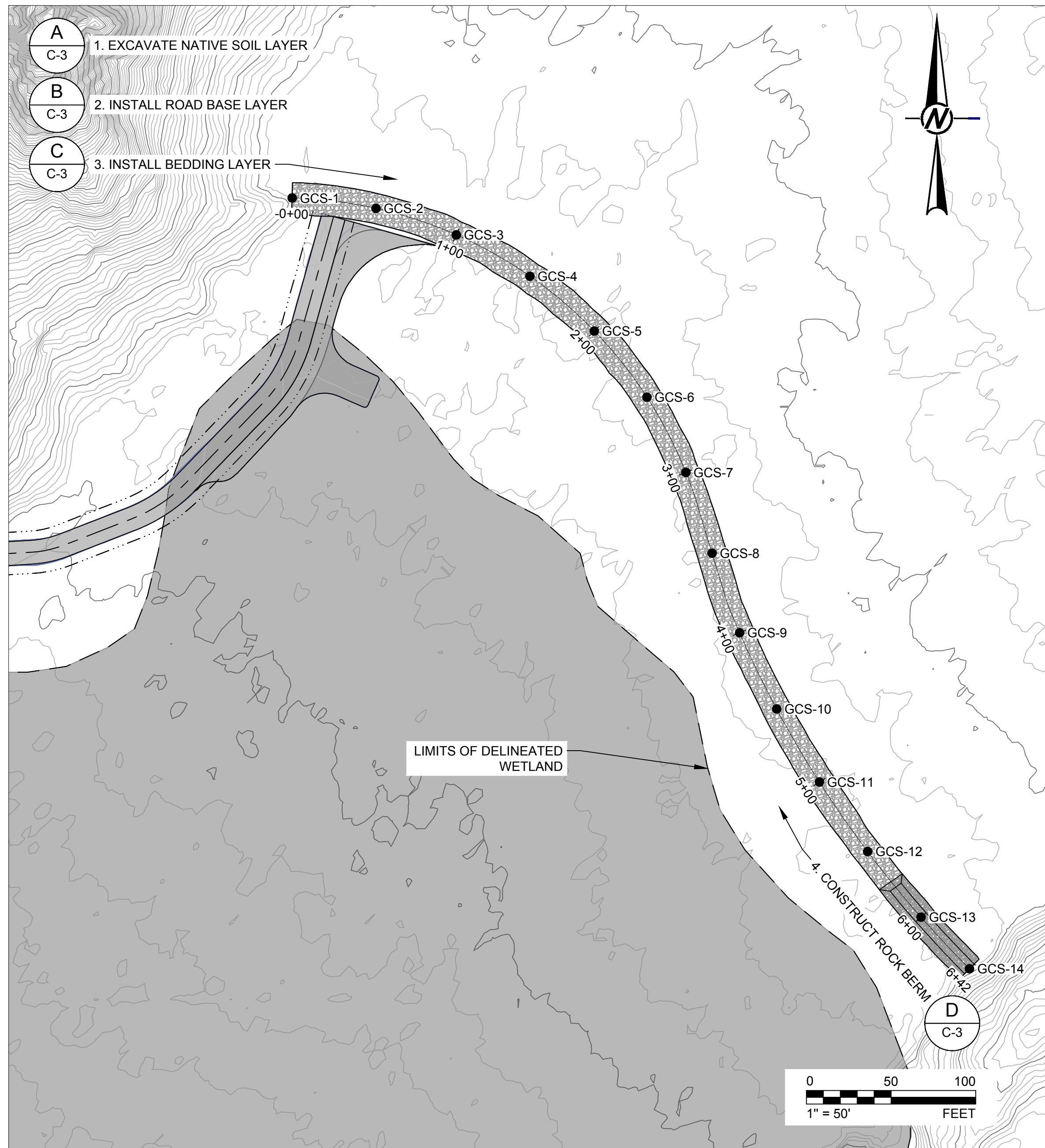
SHEET NO.
C-2
 13 OF 20

NOTE(S)

1. CONTRACTOR SHALL USE SWAMP MATS UNDER EQUIPMENT USED FOR CLEARING AND ACCESS.
2. CLEARED VEGETATION SHALL BE TRANSPORTED AND STOCKPILED NORTHEAST OF THE GRADE CONTROL STRUCTURE FOR CONSTRUCTION OF BRUSH DAMS (AS SHOWN ON SHEET C-3).
3. EXISTING GROUND CONTOURS TAKEN FROM LIDAR PROVIDED BY DIGITAL MAPPING INC., DATED 2017.

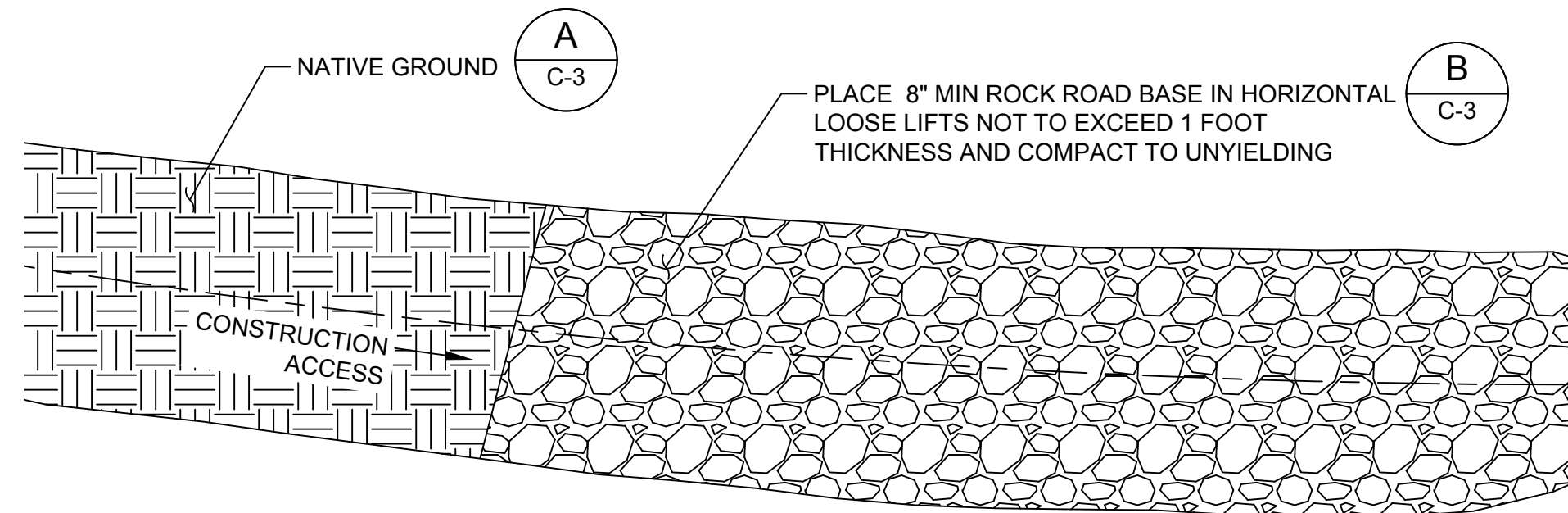


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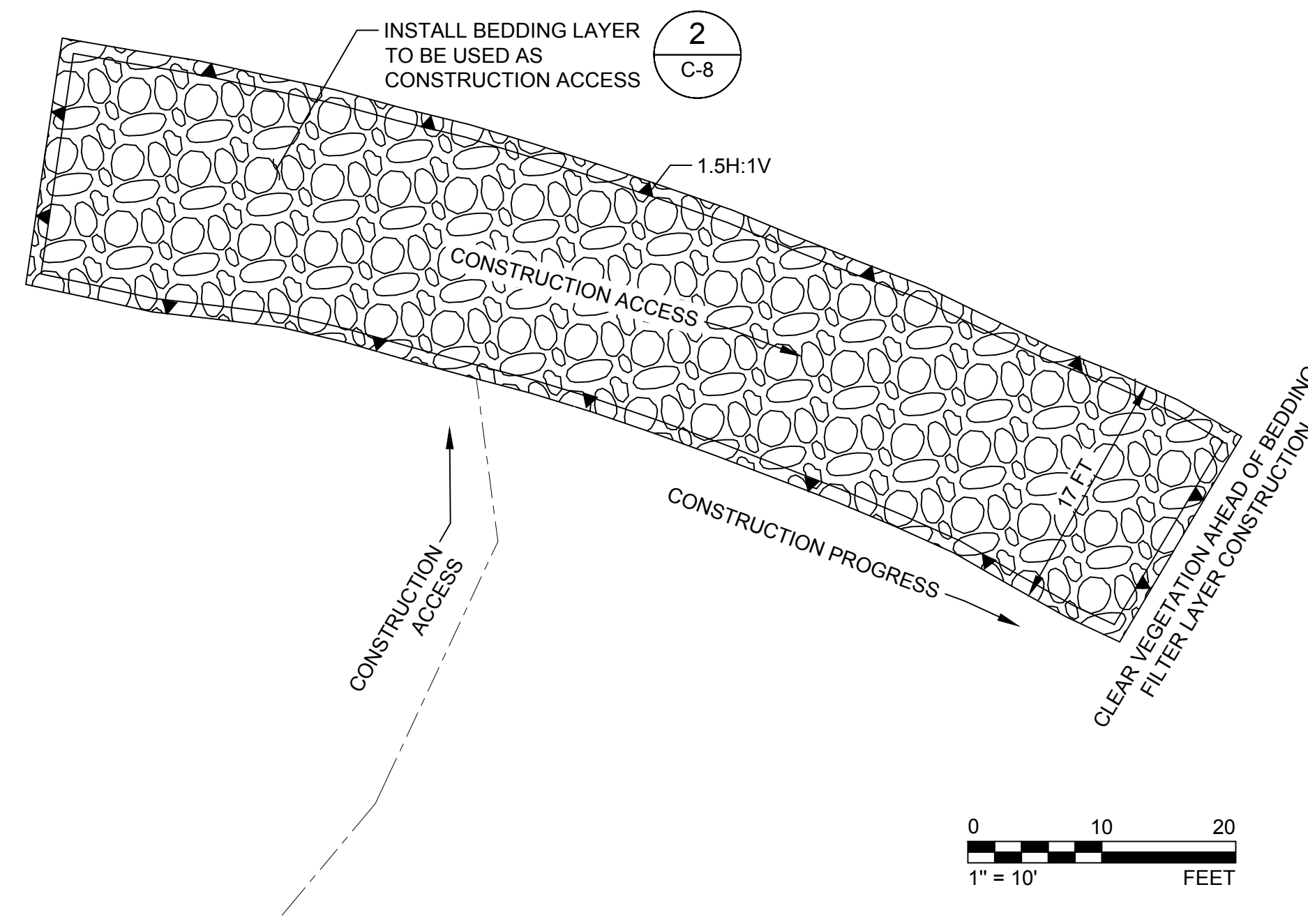
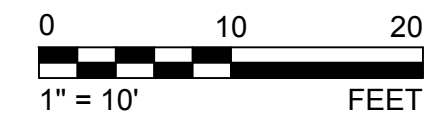


GRADE CONTROL INSTALLATION

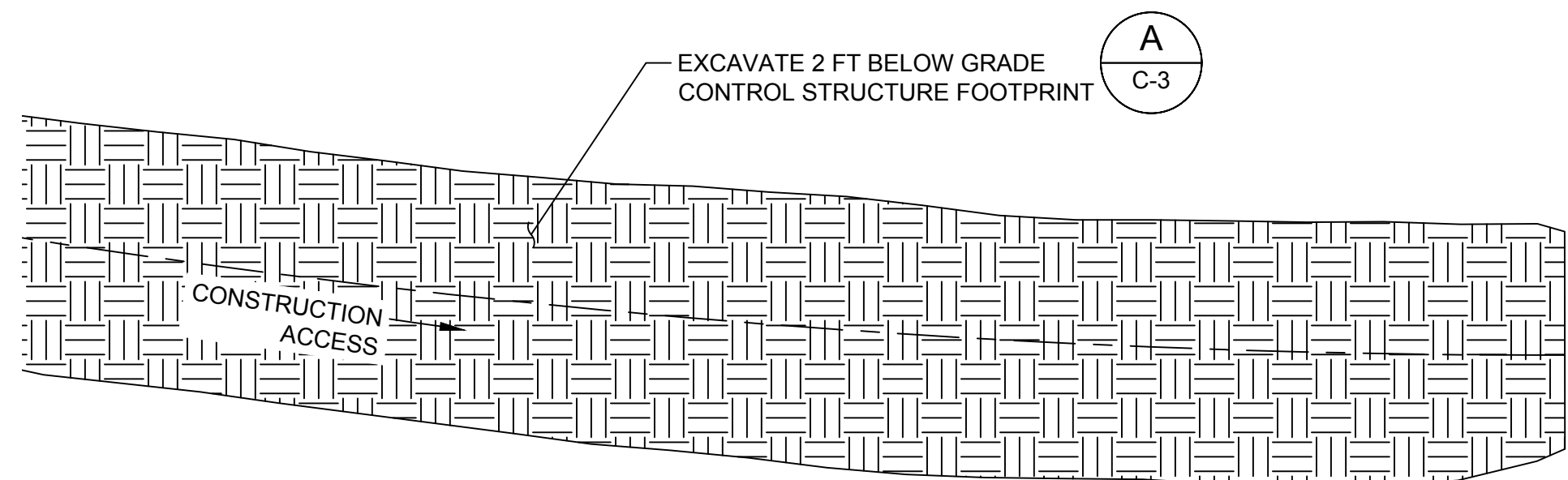
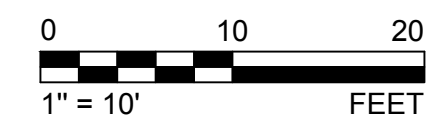
POINT NO.	NORTHING (FT)	EASTING (FT)
GCS-1	2263356.46	6868501.04
GCS-2	2263350.28	6868550.58
GCS-3	2263334.67	6868597.99
GCS-4	2263310.22	6868641.52
GCS-5	2263277.85	6868679.53
GCS-6	2263238.78	6868710.59
GCS-7	2263194.45	6868733.55
GCS-8	2263146.74	6868749.08
GCS-9	2263099.72	6868765.35
GCS-10	2263054.77	6868787.22
GCS-11	2263011.63	6868812.47
GCS-12	2262970.56	6868840.96
GCS-13	2262931.79	6868872.52
GCS-14	2262901.34	6868901.10



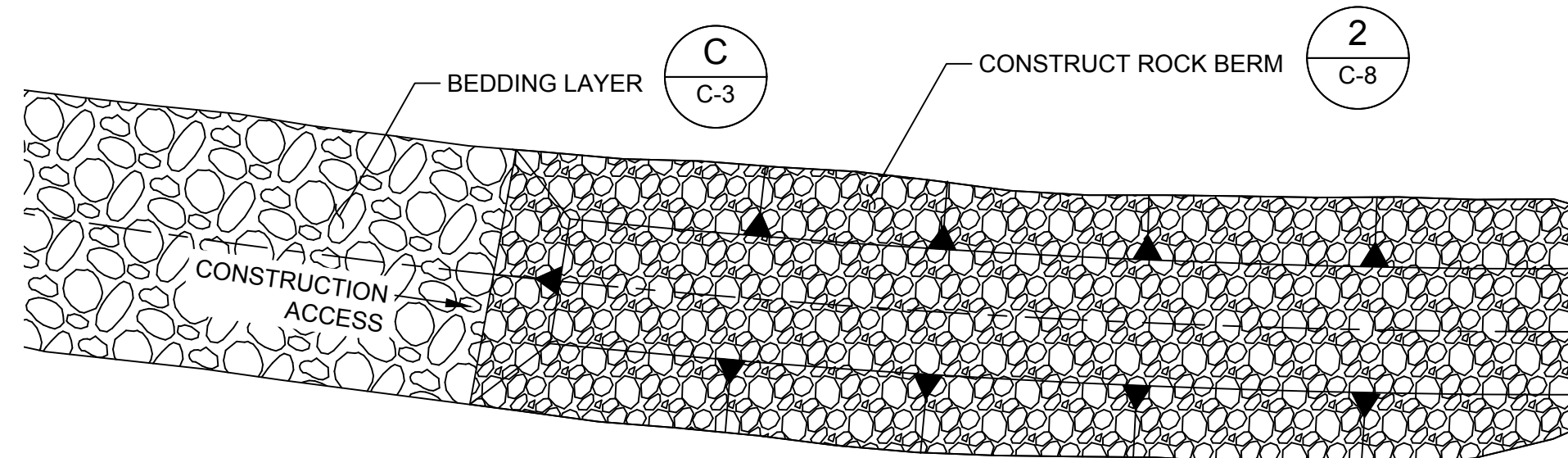
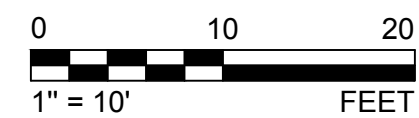
D PHASE 4 INSTALLATION



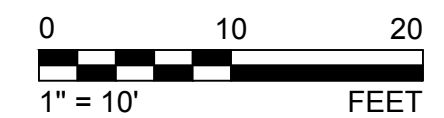
C PHASE 3 INSTALLATION



A PHASE 1 INSTALLATION



D PHASE 4 INSTALLATION



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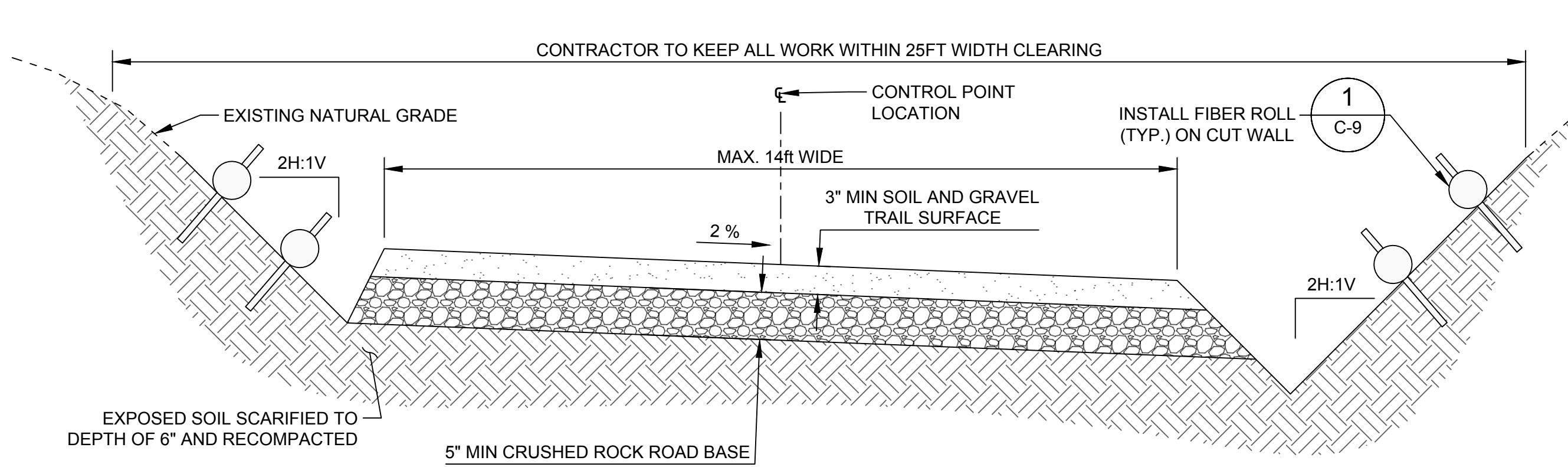
REVISIONS	
DATE	
03/17/23	ISSUED FOR BID

MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
**GRADE CONTROL STRUCTURE
INSTALLATION PLAN**

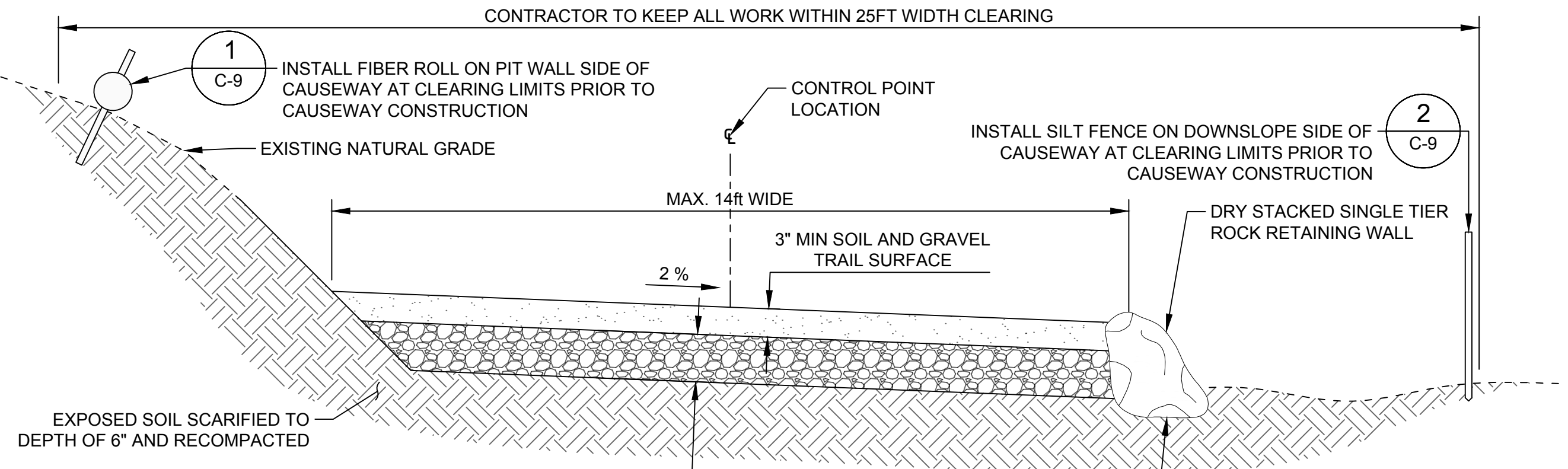
DRAWING NO.
154490214-13

SHEET NO.
C-3

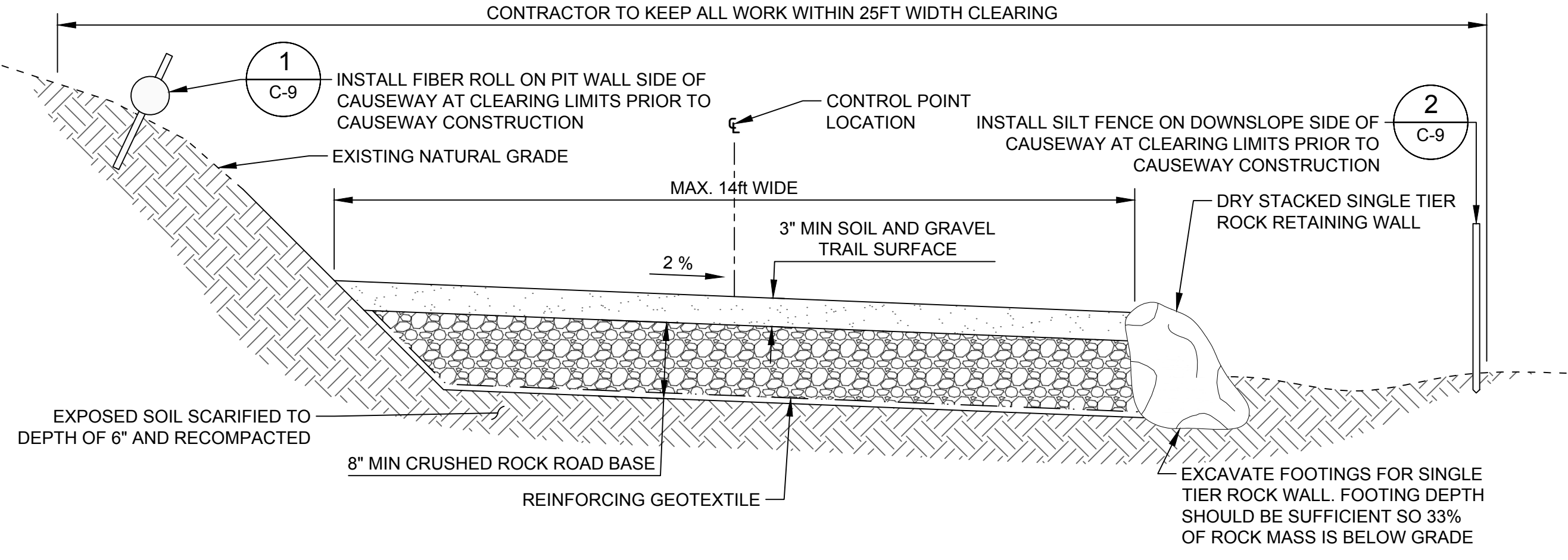
14 OF 20



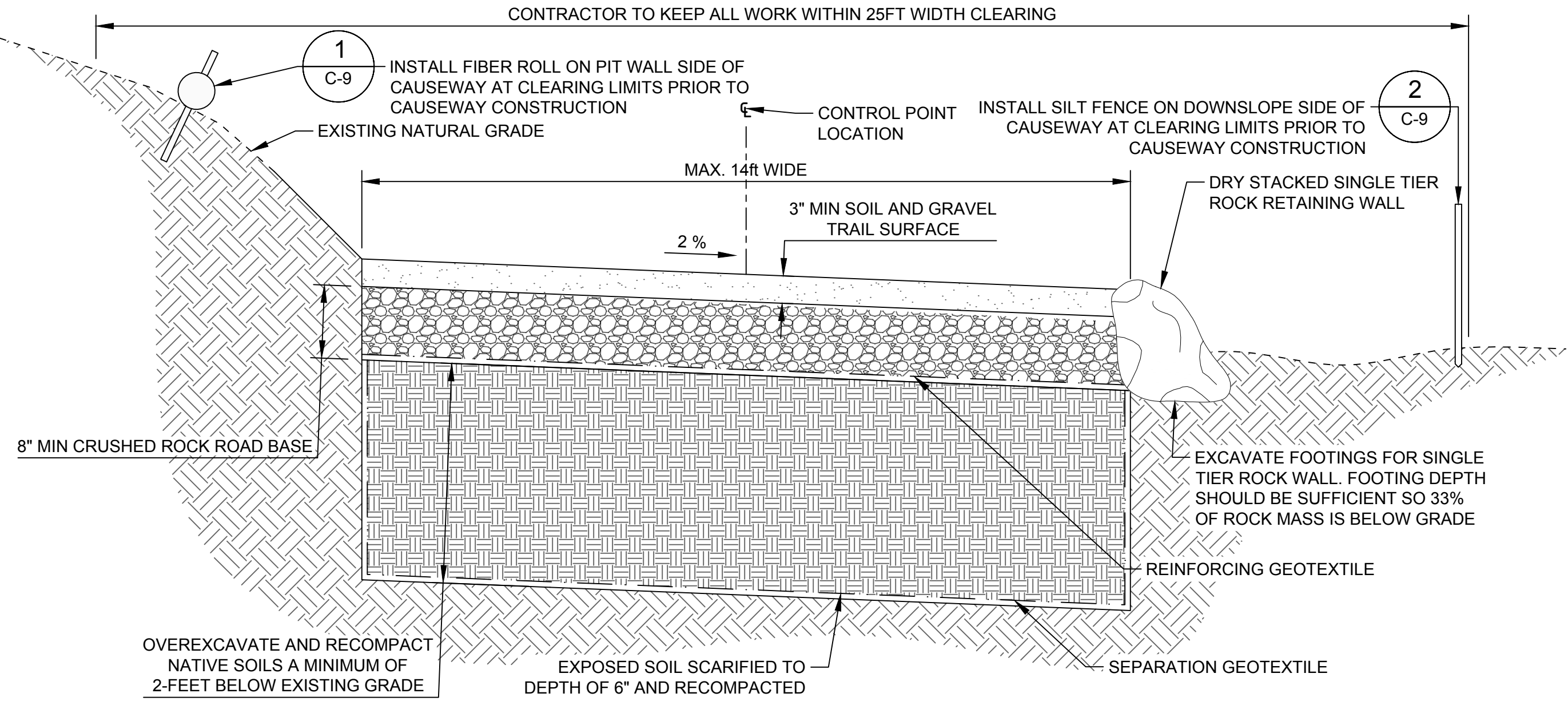
SCALE 1" = 2'
1 CAUSEWAY RAMP SECTION (STA 0+00 - STA 2+00)
(2X VERTICAL EXAGGERATION)
C-4



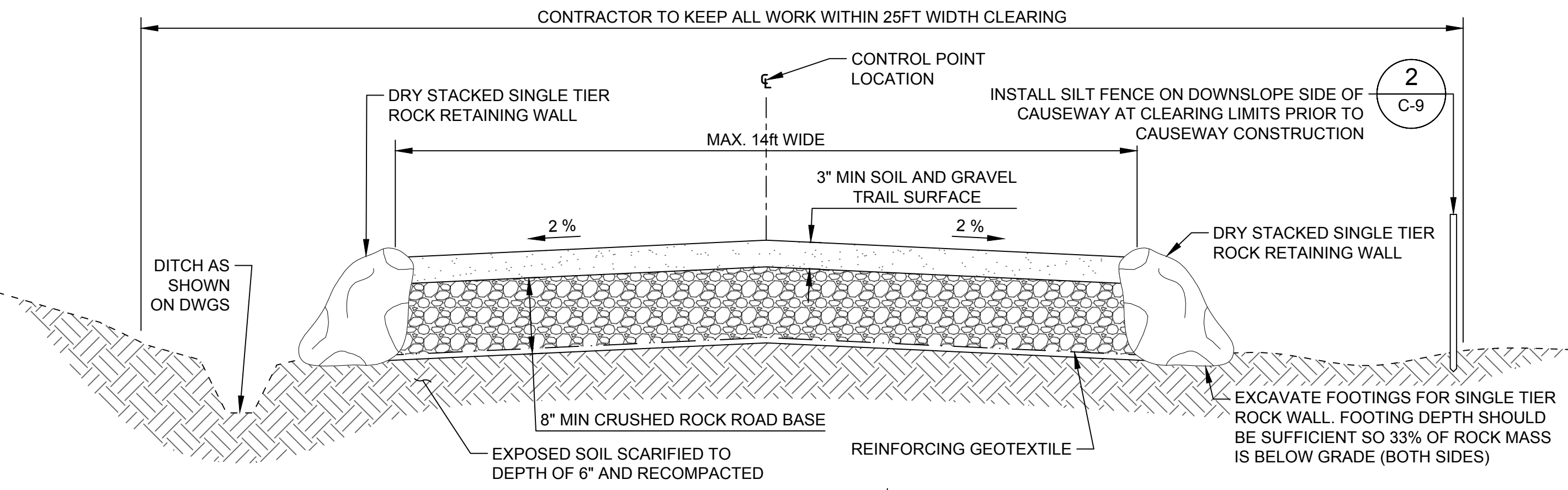
SCALE 1" = 2'
2 SINGLE-SIDED CAUSEWAY (STA 2+00 TO 23+00) & (12+50 TO 13+00) & (13+75 TO 16+25) & (16+35 TO 21+00)
(2X VERTICAL EXAGGERATION)
C-4



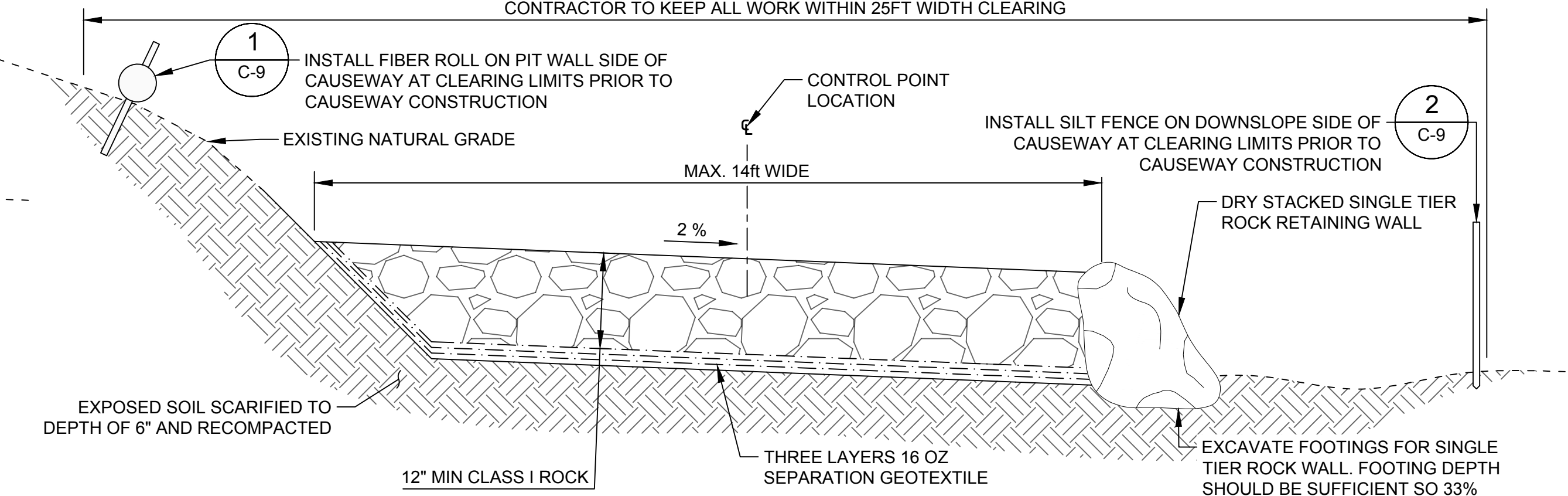
SCALE 1" = 2'
3 SINGLE-SIDED REINFORCED CAUSEWAY (STA 23+00 TO 24+75) & (26+00 TO 27+25)
(2X VERTICAL EXAGGERATION)
C-4



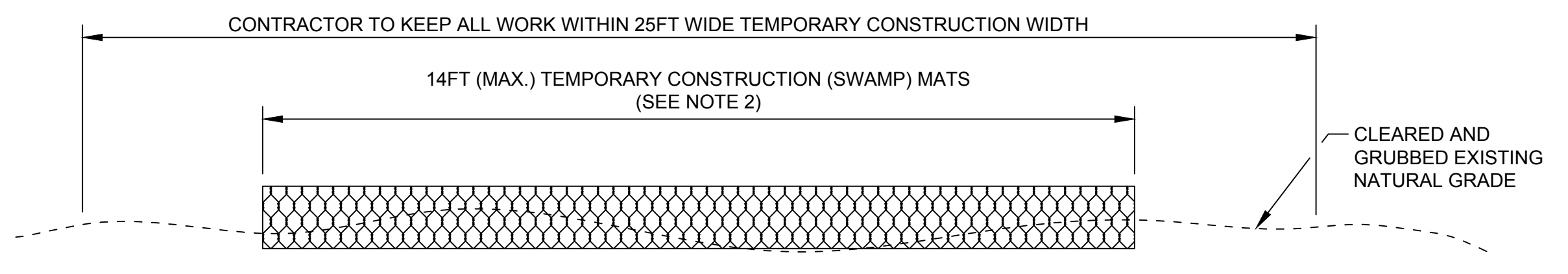
SCALE 1" = 2'
4 SINGLE-SIDED IMPROVED SUBGRADE CAUSEWAY (STA 28+00 TO 29+50) & (30+15 TO 42+00)
(2X VERTICAL EXAGGERATION)
C-4



SCALE 1" = 2'
5 DOUBLE-SIDED REINFORCED CAUSEWAY
(2X VERTICAL EXAGGERATION)
C-4



SCALE 1" = 2'
6 SINGLE-SIDED CAUSEWAY ARMORED CROSSING (STA 13+00 TO 13+75) & (16+25 TO 16+35) & (21+00 TO 23+00)
(2X VERTICAL EXAGGERATION)
C-4



SCALE 1" = 2'
7 TEMPORARY ROAD CONSTRUCTION MATS
N.T.S.
C-4

NOTE(S)

- CLEAR VEGETATION FROM ROAD PRISM, CUT INTO EXISTING GRADE AS SHOWN AND SIDE CAST TO USE AS FILL. BENCH FILL INTO SLOPED AREAS AND PLACE FILL IN HORIZONTAL LOOSE LIFTS NOT EXCEEDING 1 FOOT AND COMPACT TO NON-YIELDING CONDITIONS WITH HEAVIEST RUBBER Tired VEHICLES THAT WILL USE THE ROAD.
- TEMPORARY CONSTRUCTION MATS SHALL BE PRE-FABRICATED WOOD OR COMPOSITE MATS MEETING THE SPECIFICATION REQUIREMENTS.
- THE SOIL AND TRAIL SURFACE MUST CONFORM TO THE SPECIFICATION FOR THE ROCK RETAINING WALL AND WILL LIKELY REQUIRE MINOR FIELD FITTING.

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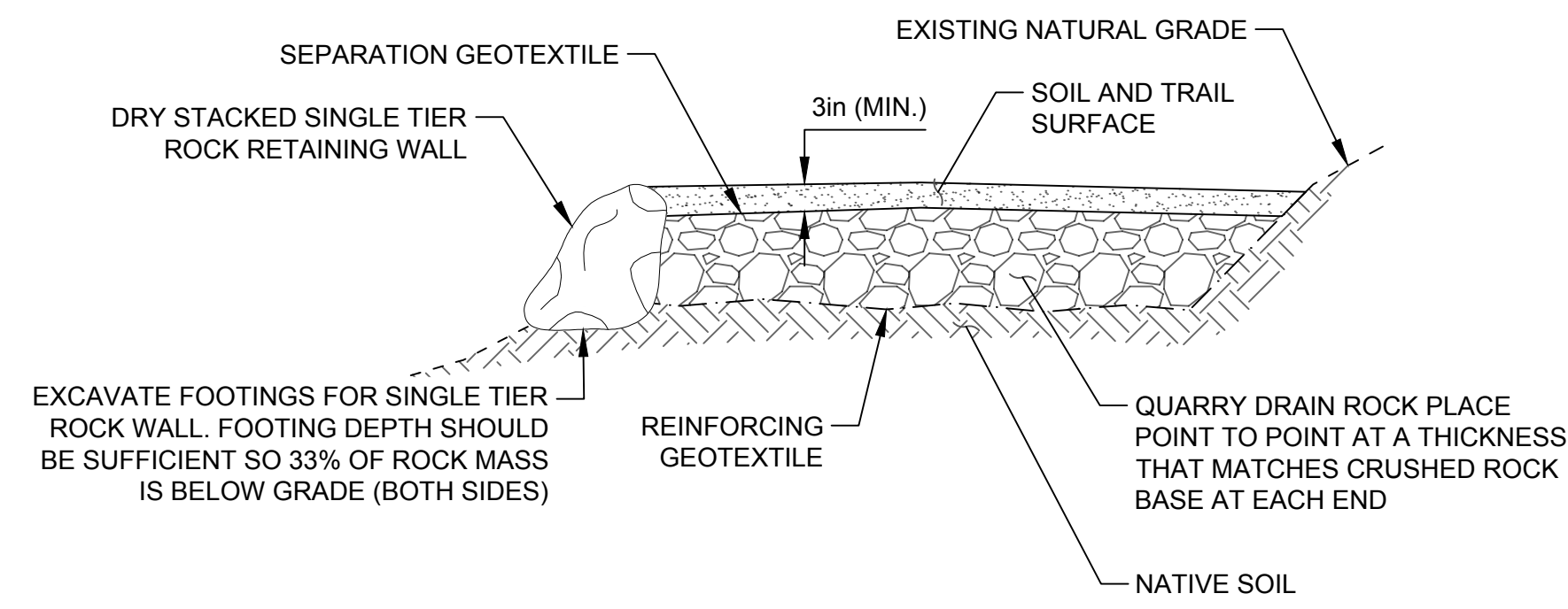
MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION

CAUSEWAY DETAILS

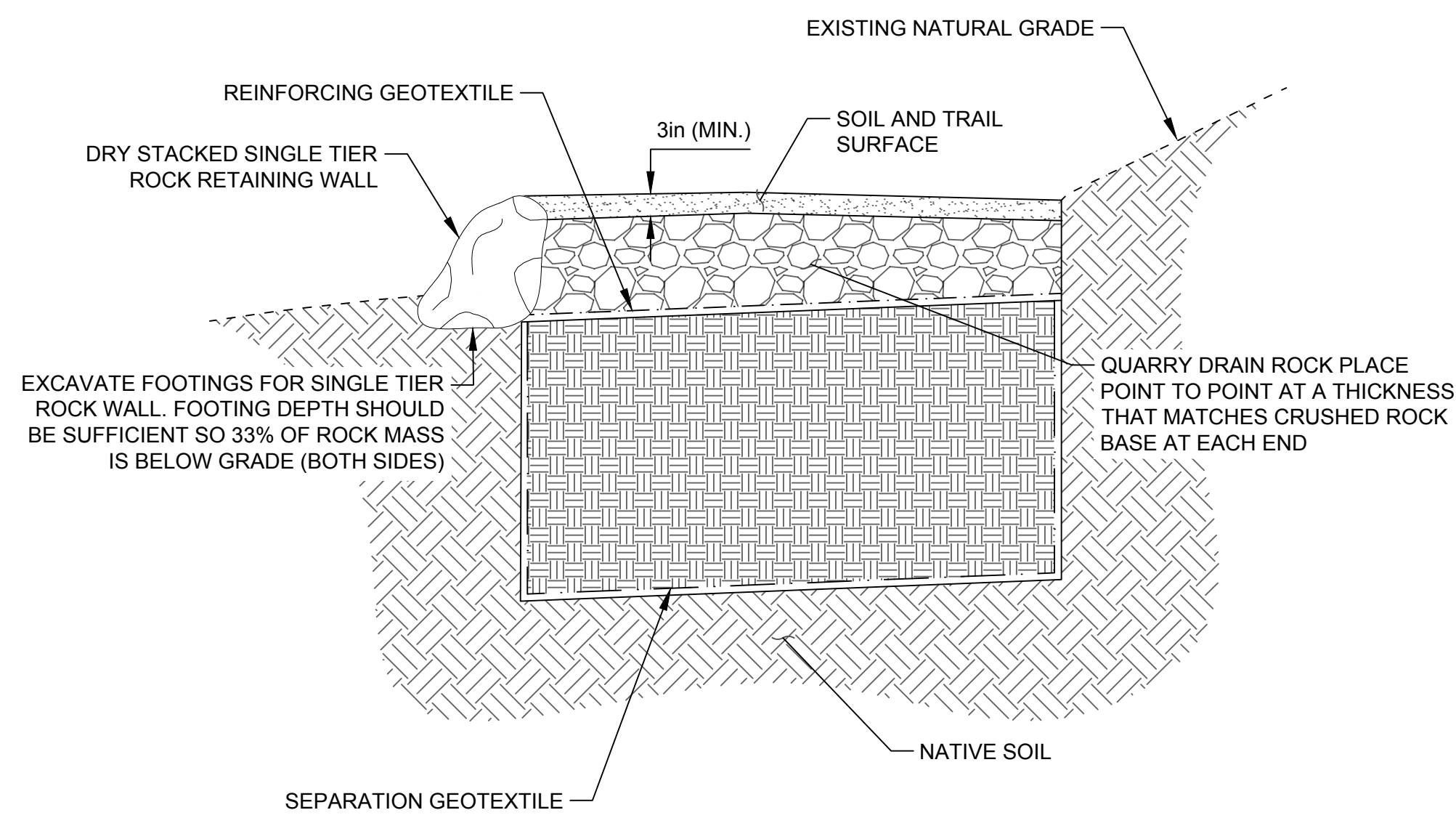
DRAWING NO.
154490214-14

SHEET NO.
C-4

15 OF 20



SCALE 1" = 2' **8** SINGLE-SIDED DRAIN LENS (STA 24+25 TO 26+00) & (27+25 TO 28+00)
C-5 (2X VERTICAL EXAGGERATION)



SCALE 1" = 2' **9** SINGLE-SIDED IMPROVED SUBGRADE DRAIN LENS (STA 29+50 TO 30+15)
C-5 (2X VERTICAL EXAGGERATION)

NOTE(S)

- CLEAR VEGETATION FROM ROAD PRISM, CUT INTO EXISTING GRADE AS SHOWN AND SIDE CAST TO USE AS FILL. BENCH FILL INTO SLOPED AREAS AND PLACE FILL IN HORIZONTAL LOOSE LIFTS NOT EXCEEDING 1 FOOT AND COMPACT TO NON-YIELDING CONDITIONS WITH HEAVIEST RUBBER TIRE VEHICLES THAT WILL USE THE ROAD.
- TEMPORARY CONSTRUCTION MATS SHALL BE PRE-FABRICATED WOOD OR COMPOSITE MATS MEETING THE SPECIFICATION REQUIREMENTS.
- THE TOP OF CAUSEWAY SURFACE MUST CONFORM TO THE TOP OF THE RETAINING WALL AND WILL LIKELY REQUIRE MINOR FIELD FITTING.

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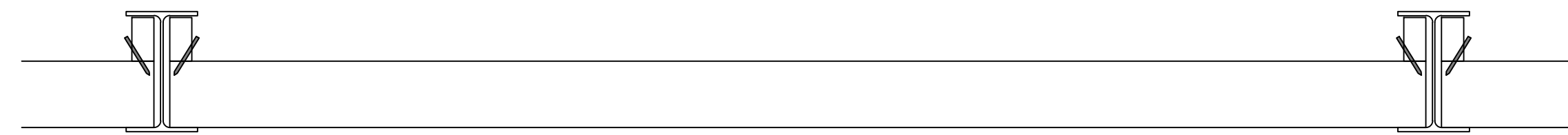
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MALAKOFF DIGGINS STATE HISTORIC PARK
PIT DRAINAGE RUNOFF BMP CONSTRUCTION
CAUSEWAY DETAILS

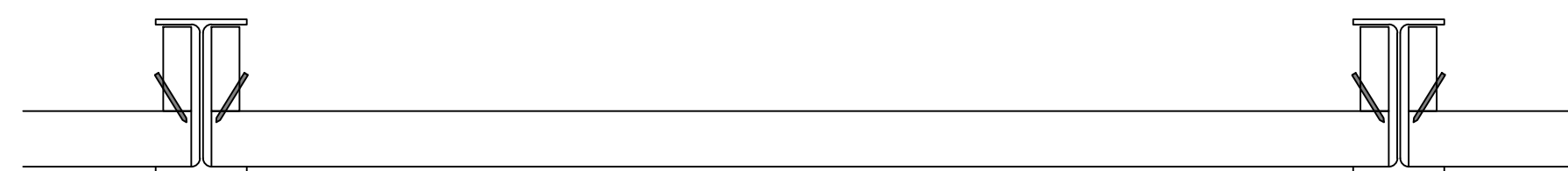
DRAWING NO.
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C-5

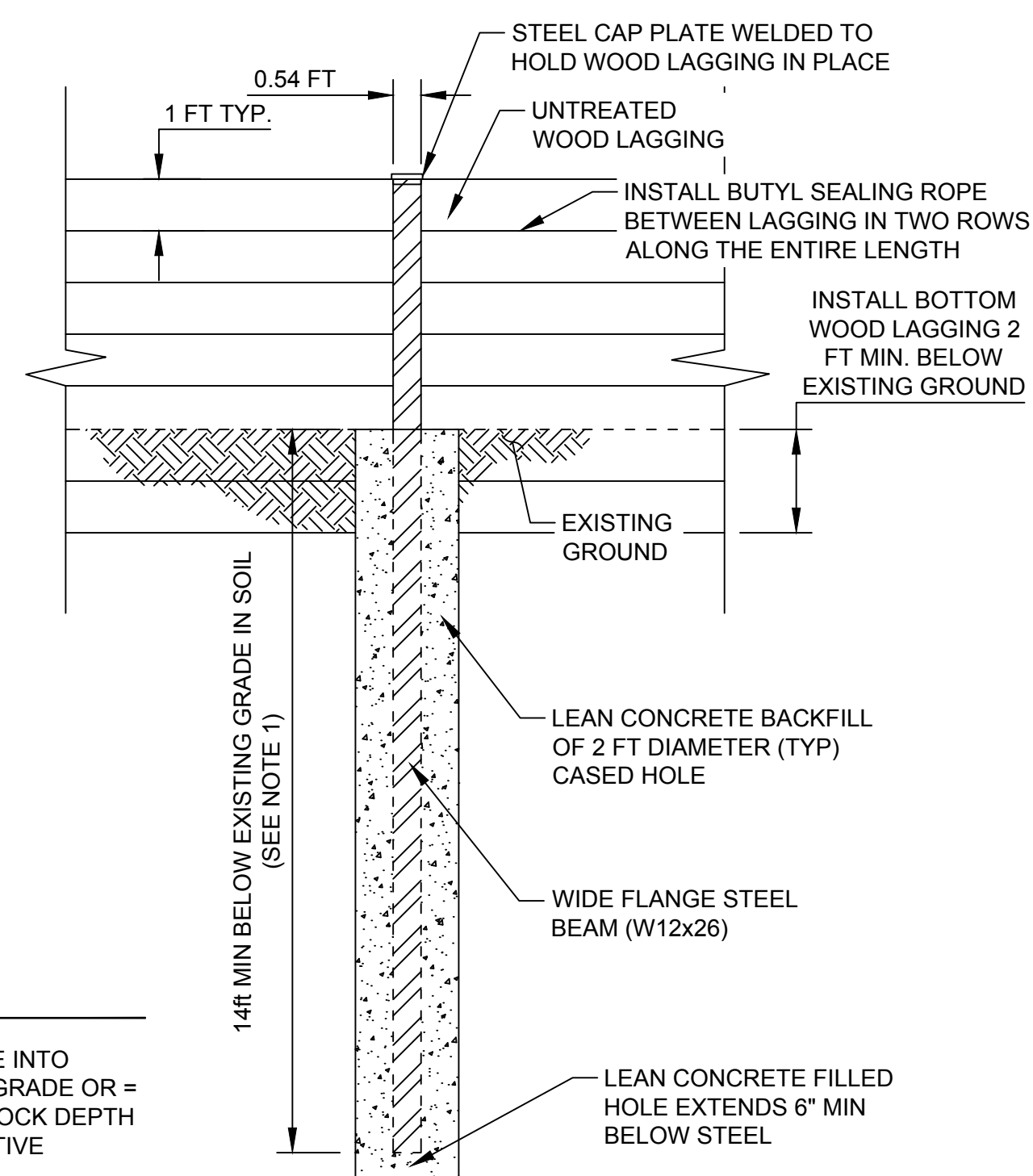
16 OF 20



1
C-1
SOLDIER PILE WITH WIDE FLANGE STEEL BEAM - OPTION 1
N.T.S.

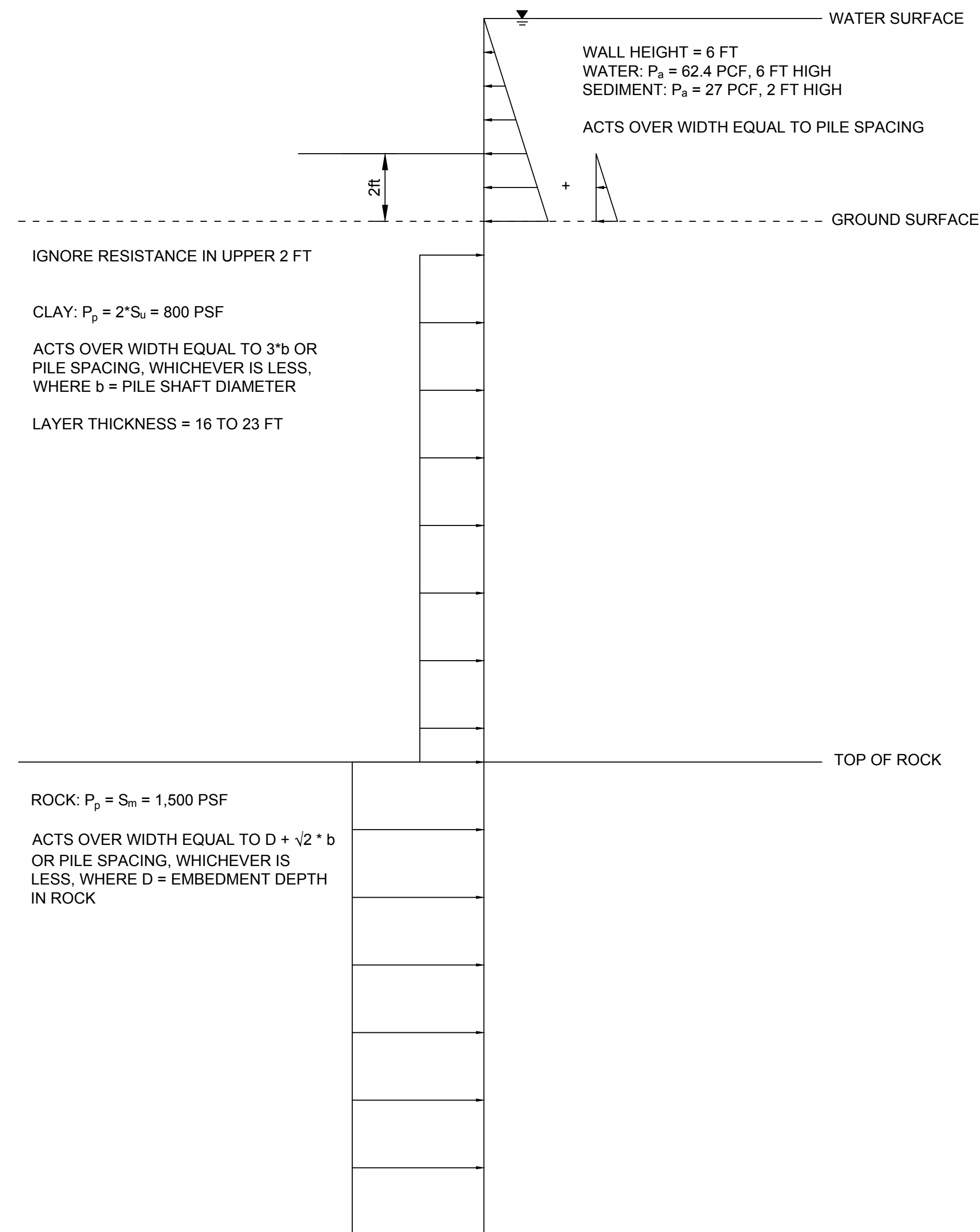


2
C-1
SOLDIER PILE WITH WIDE FLANGE STEEL BEAM - OPTION 2
N.T.S.

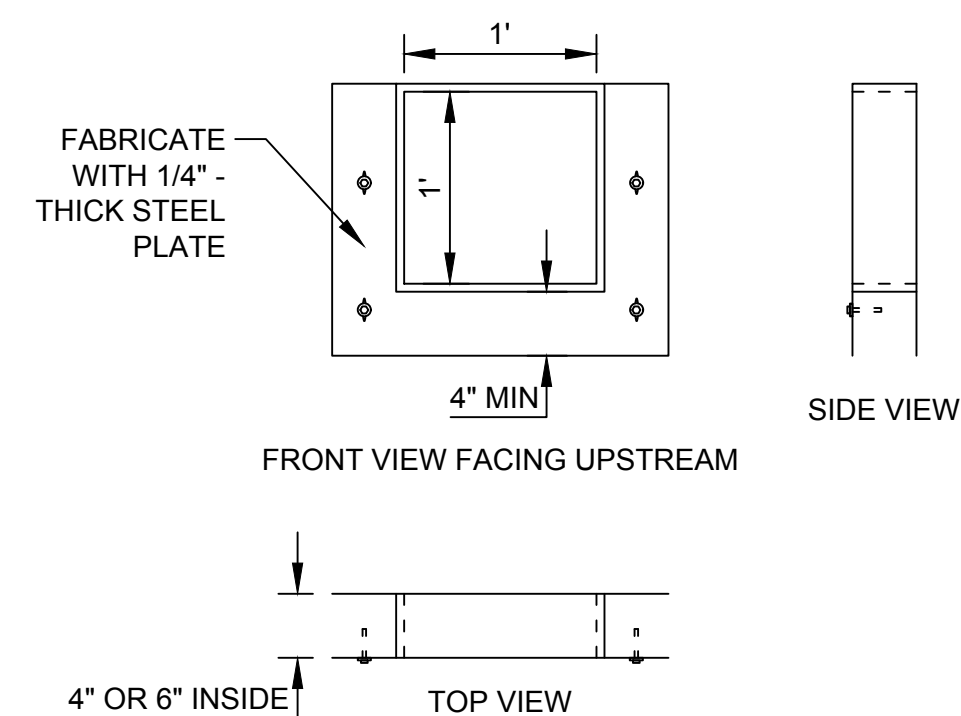


1. FOR SOILS LESS THAN 14 FEET THICK OVER ROCK, EMBED PILE INTO UNWEATHERED ROCK 6.5 FT MIN FOR ROCK 0 TO 2 FT BELOW GRADE OR = $7.6 - (0.54 \times D)$ FOR ROCK DEPTH D BELOW EXISTING GRADE (ROCK DEPTH BELOW GRADE TO BE FIELD VERIFIED BY STATE REPRESENTATIVE ENGINEER).

4
C-1
SOLDIER PILE IN-GROUND PLACEMENT
0 3 6
1" = 3' FEET



3
C-6
SUB-SURFACE PRESSURE DIAGRAM
N.T.S.



5
C-1
LOW WATER ORIFICE PLATE
N.T.S.



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 PIT DRAINAGE RUNOFF BMP CONSTRUCTION
 SOLDIER PILE WALL DETAILS

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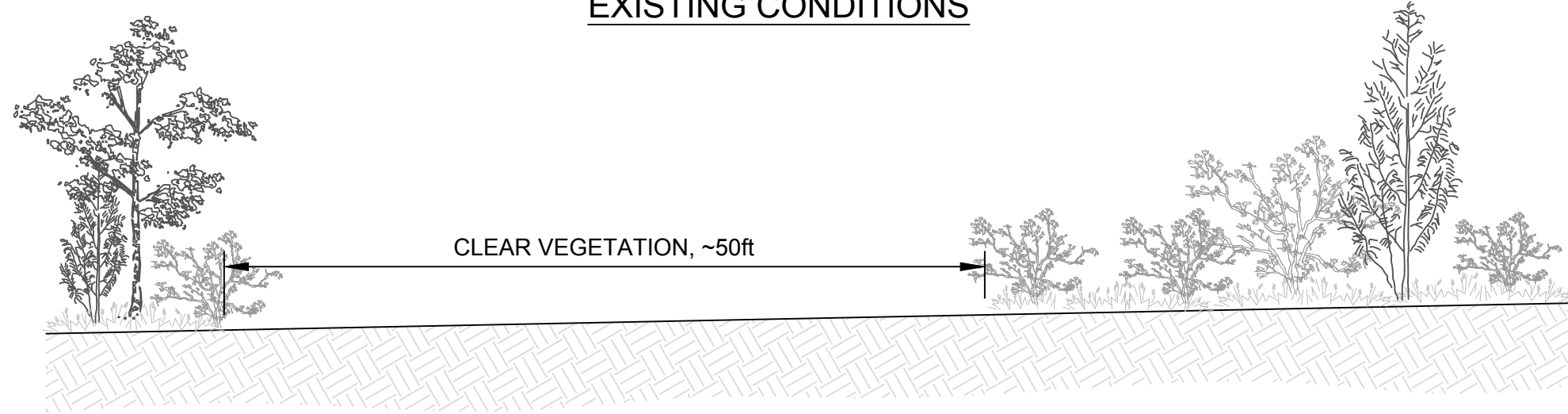
SHEET NO.
C-6

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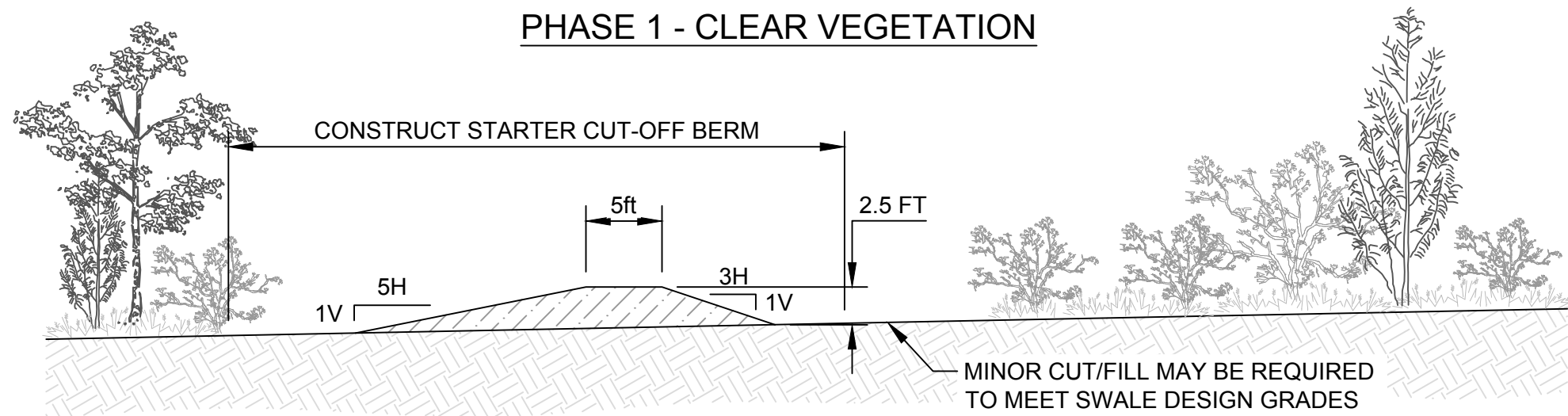


EXISTING CONDITIONS



CLEAR VEGETATION, ~50ft

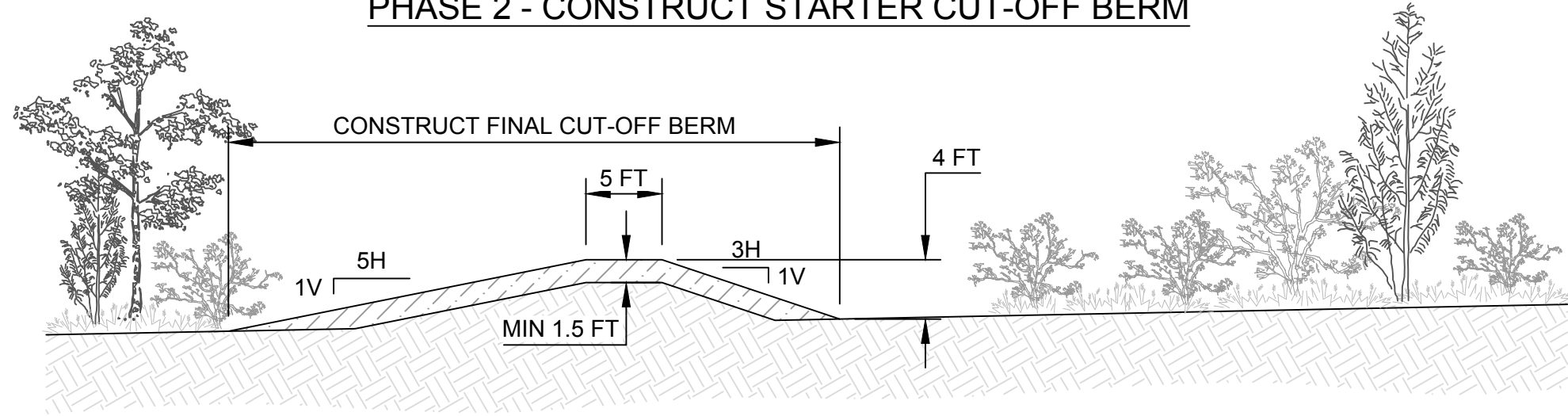
PHASE 1 - CLEAR VEGETATION



CONSTRUCT STARTER CUT-OFF BERM

MINOR CUT/FILL MAY BE REQUIRED TO MEET SWALE DESIGN GRADES

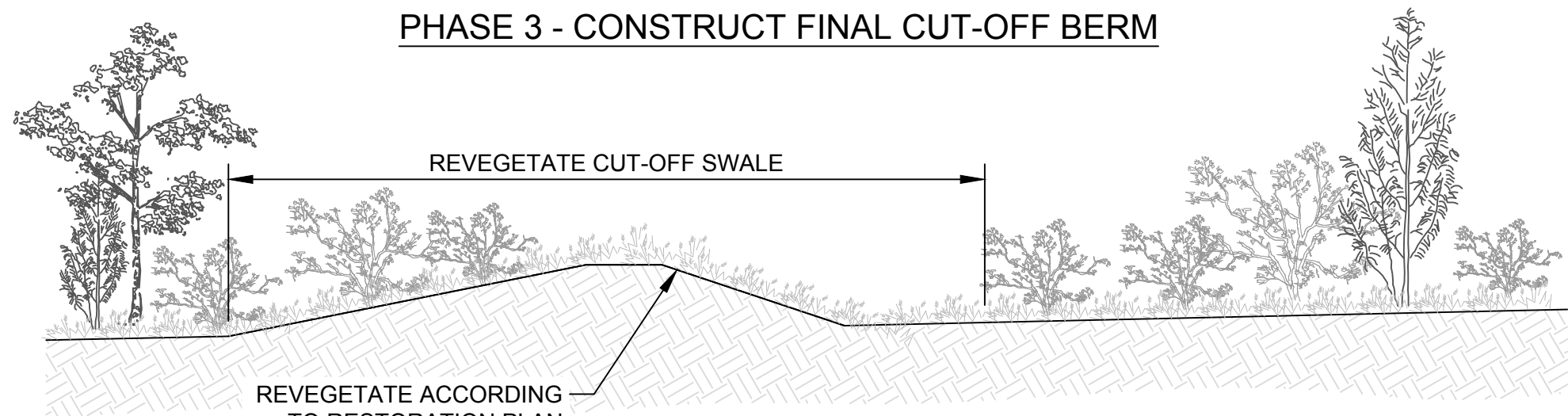
PHASE 2 - CONSTRUCT STARTER CUT-OFF BERM



CONSTRUCT FINAL CUT-OFF BERM

MIN 1.5 FT

PHASE 3 - CONSTRUCT FINAL CUT-OFF BERM

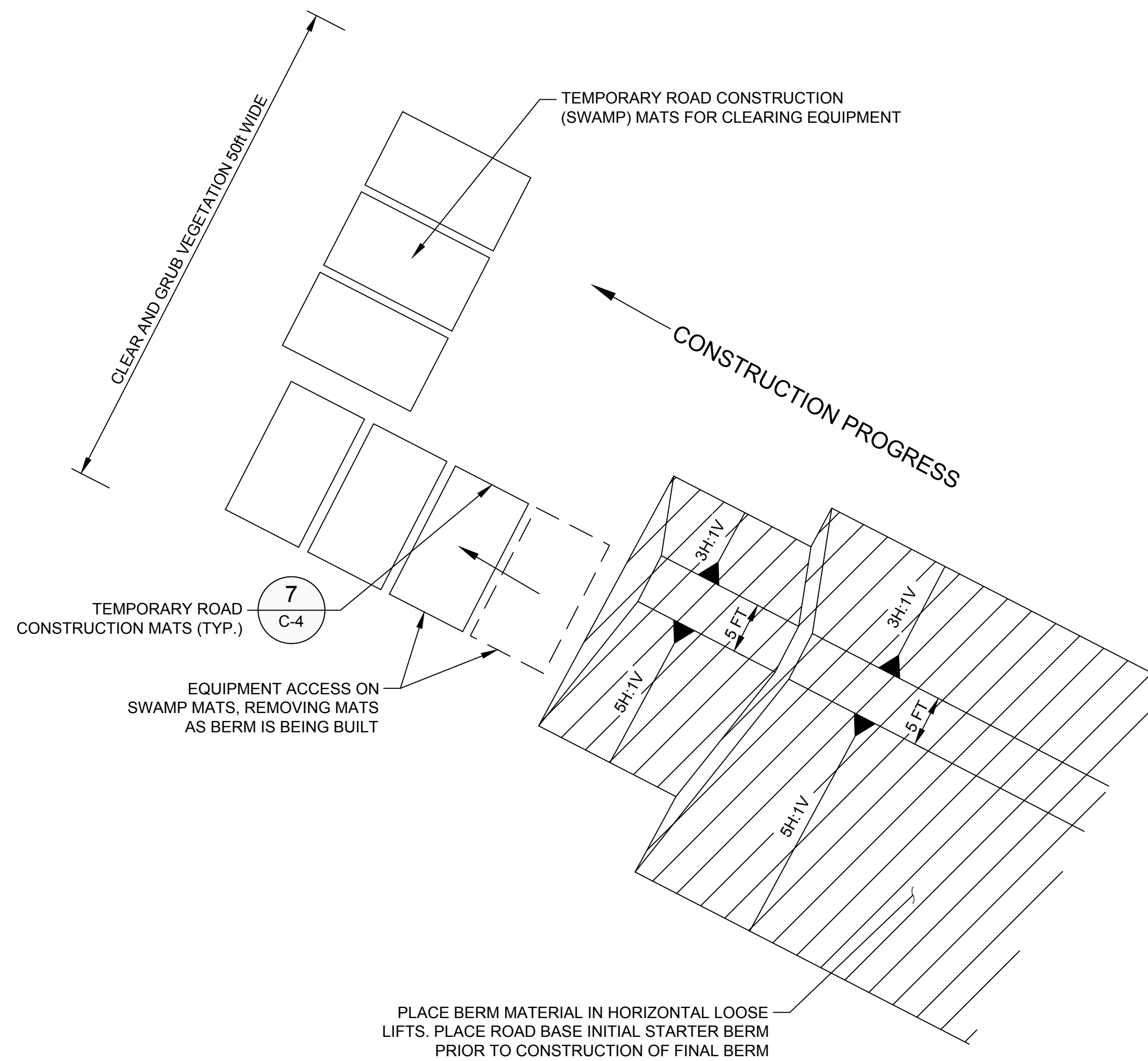
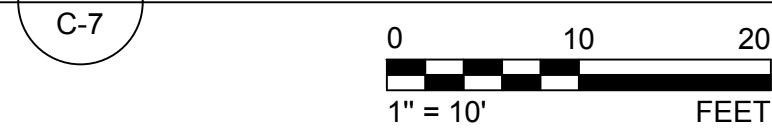


REVEGETATE CUT-OFF SWALE

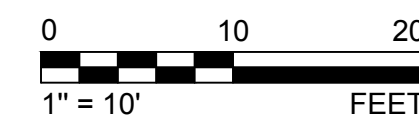
REVEGETATE ACCORDING TO RESTORATION PLAN PROVIDED BY OWNER

PHASE 4 - REVEGETATION

A INTERCEPTOR SWALE TYPICAL SECTION



B TYPICAL CONSTRUCTION SCHEMATIC



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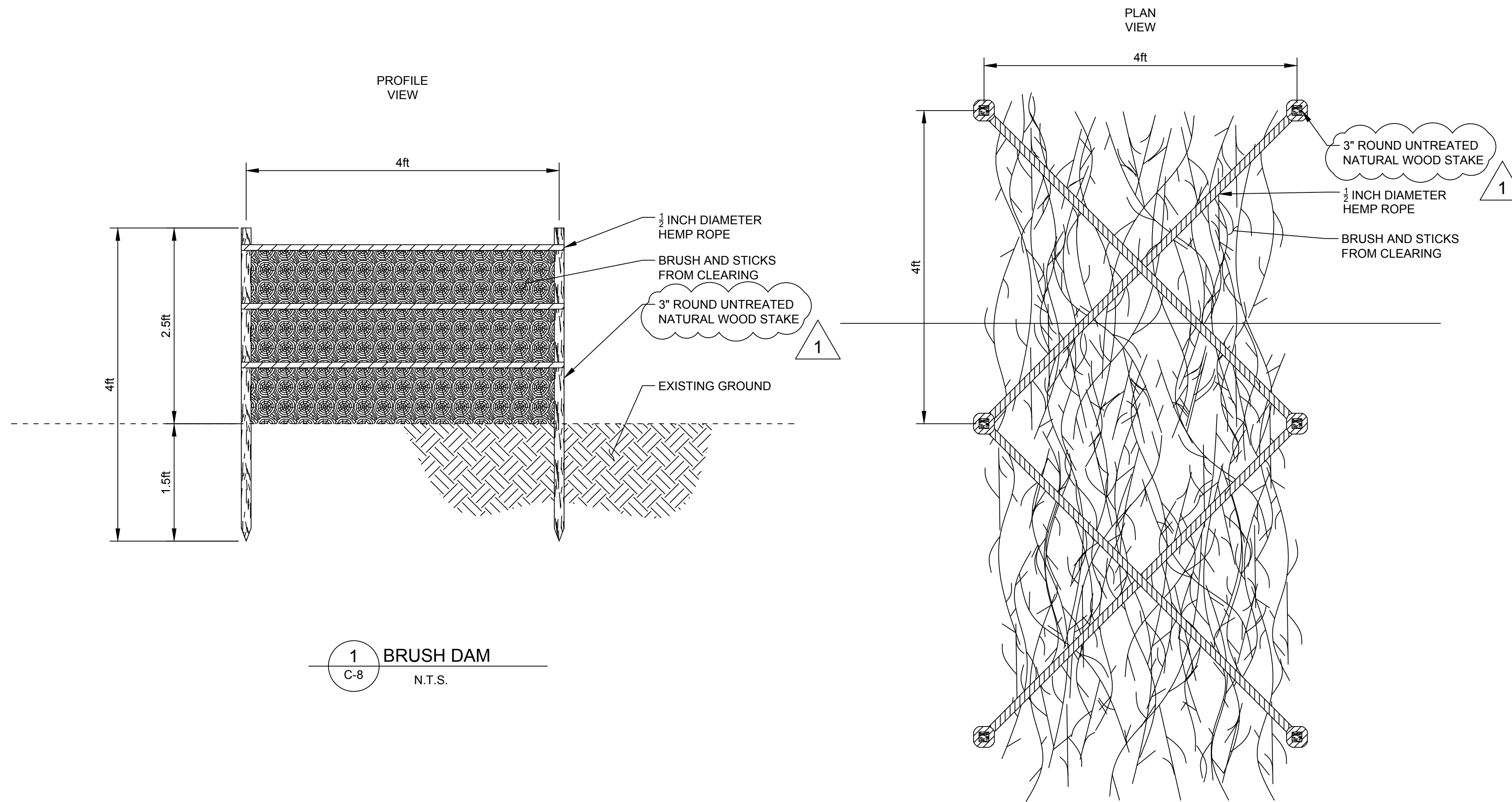
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PIT DRAINAGE RUNOFF BMP CONSTRUCTION
INTERCEPTOR SWALE DETAILS

DRAWING NO.
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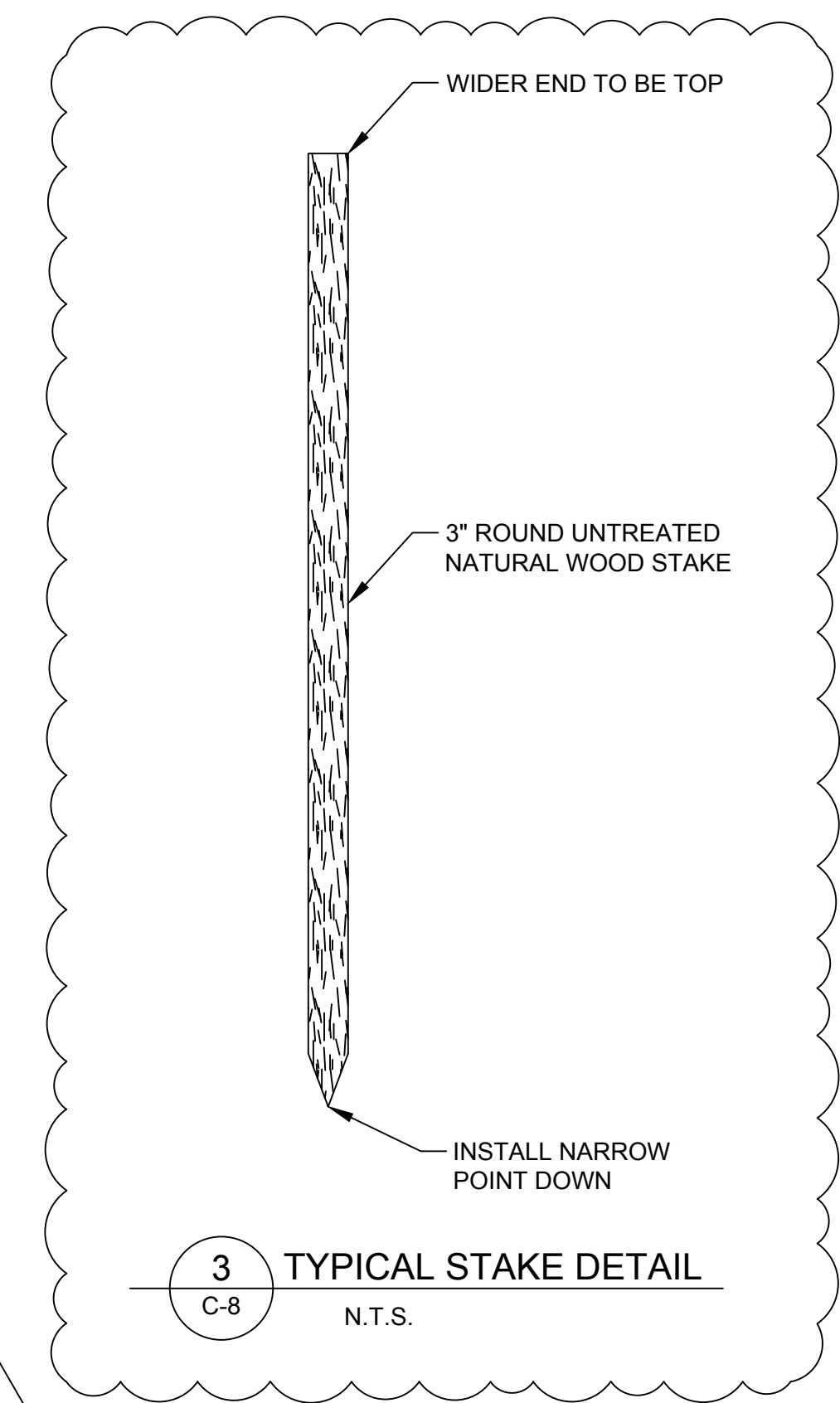
SHEET NO.
C-7

17 OF 20

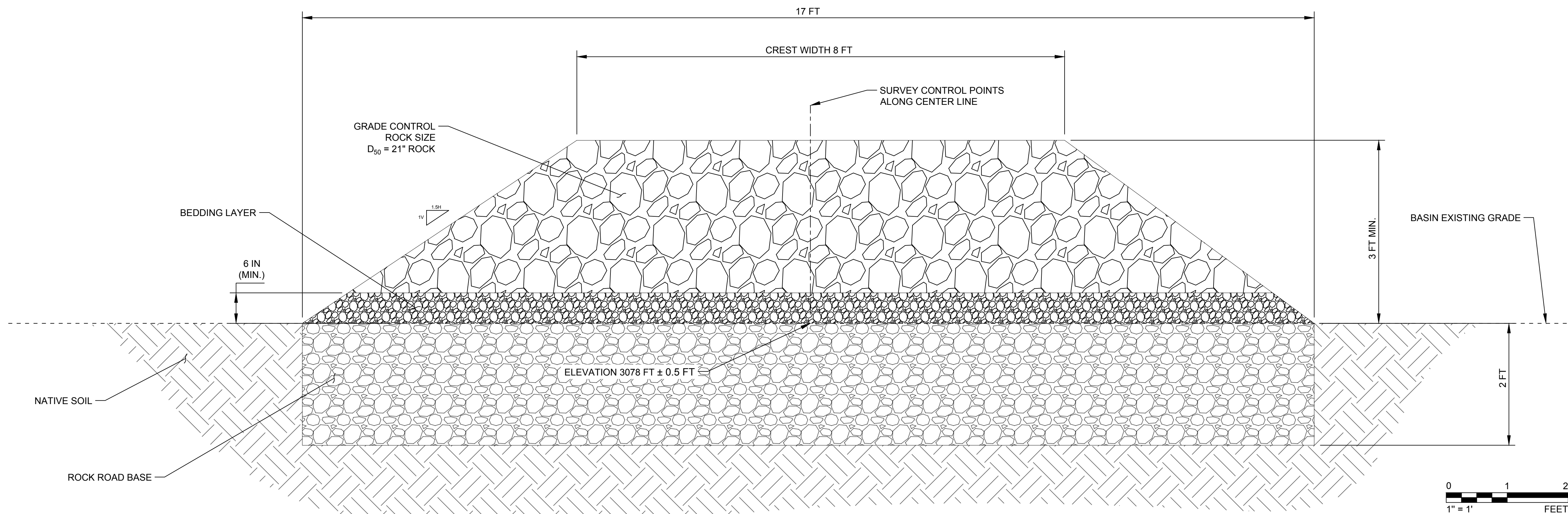
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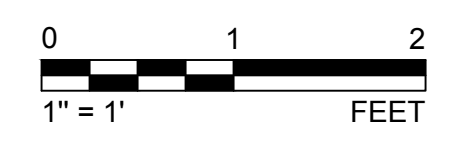
1 BRUSH DAM
C-8 N.T.S.



3 TYPICAL STAKE DETAIL
C-8 N.T.S.



2 GRADE CONTROL STRUCTURE - PROFILE
C-8



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MALAKOFF DIGGINS STATE HISTORIC PARK
 PIT DRAINAGE RUNOFF BMP CONSTRUCTION

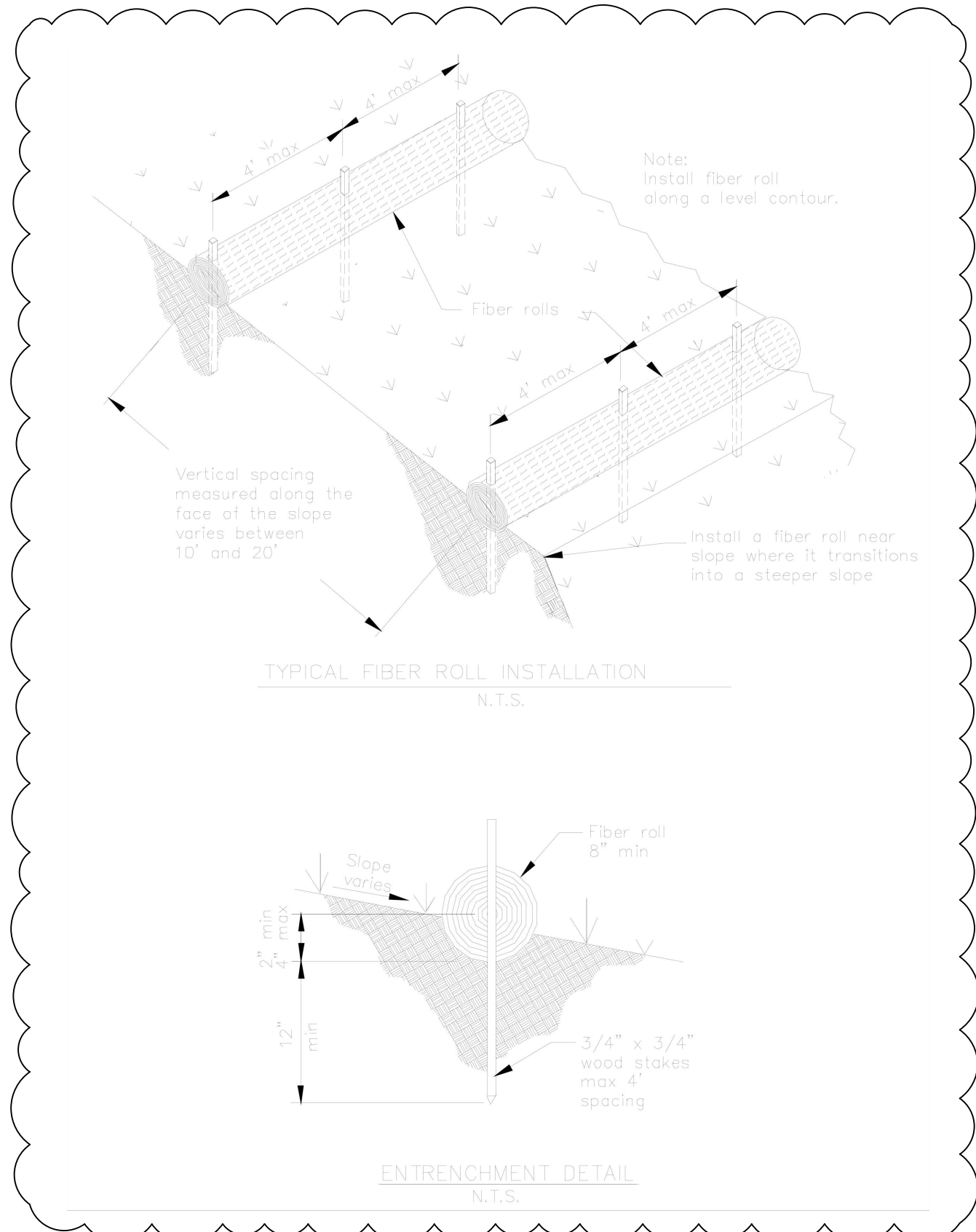
GRADE CONTROL AND BRUSH DAM DETAILS

DRAWING NO.
154490214-17

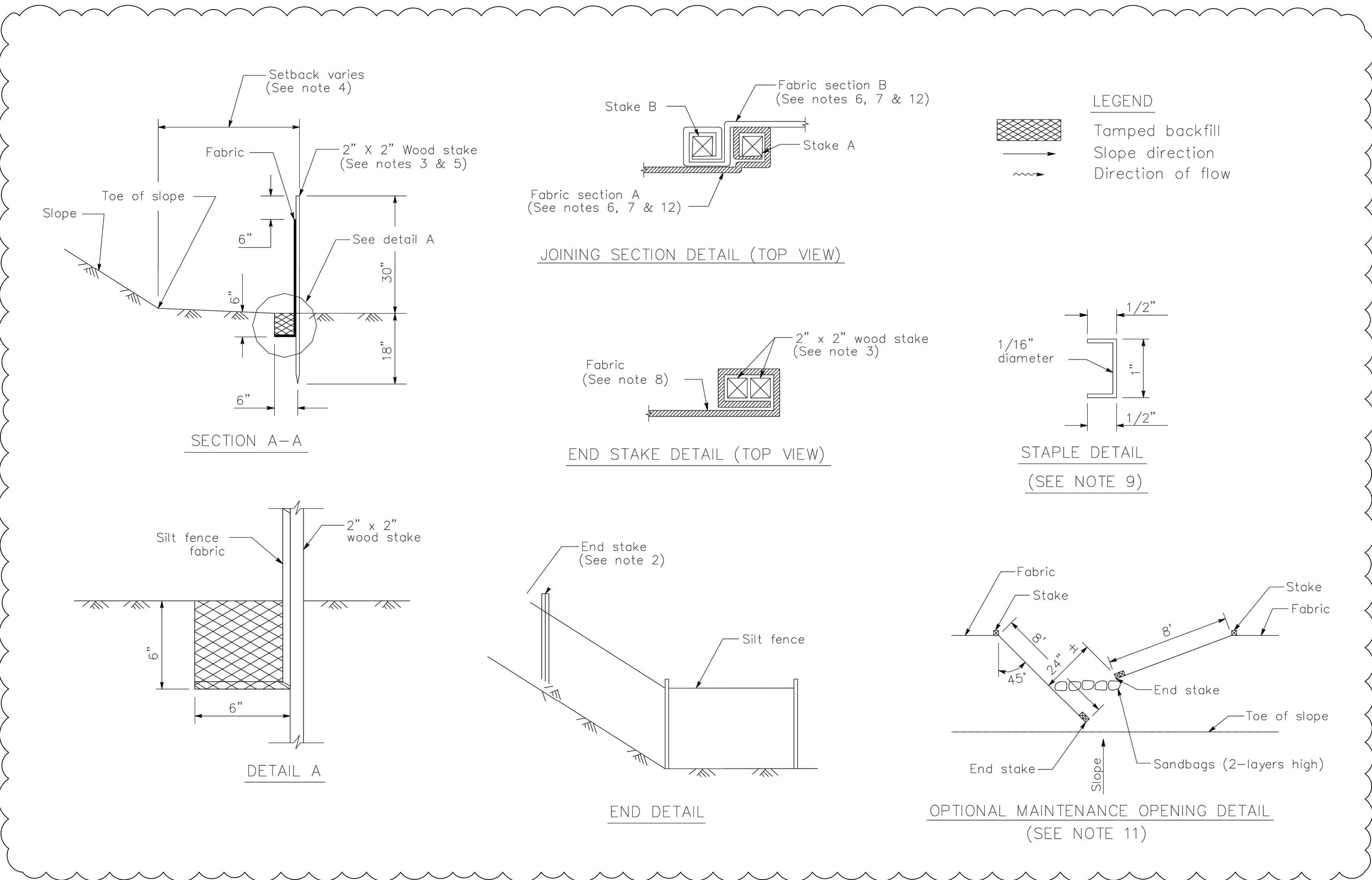
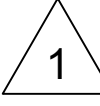
SHEET NO.
C-8

19 OF 20

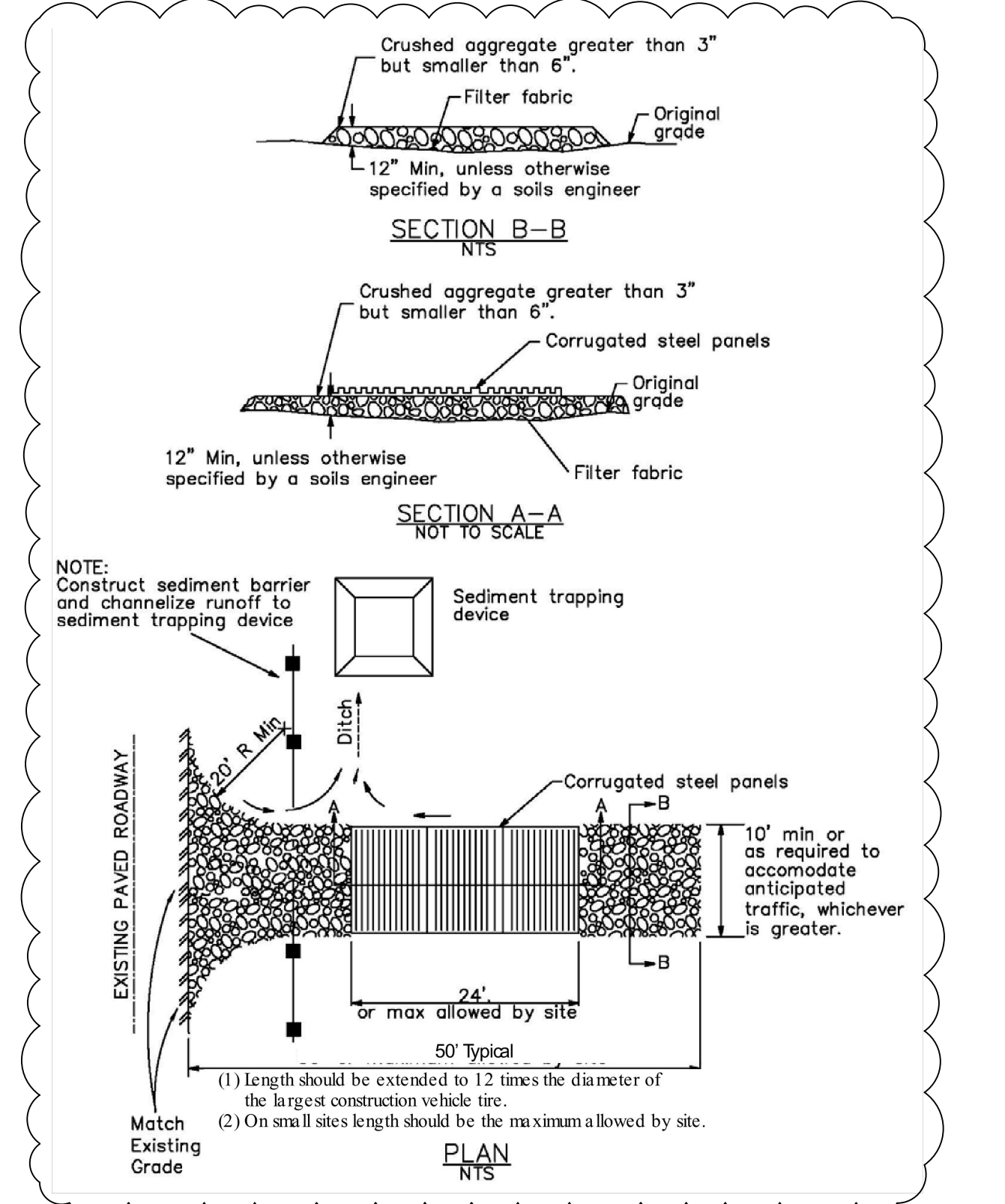
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NOT FOR CONSTRUCTION**



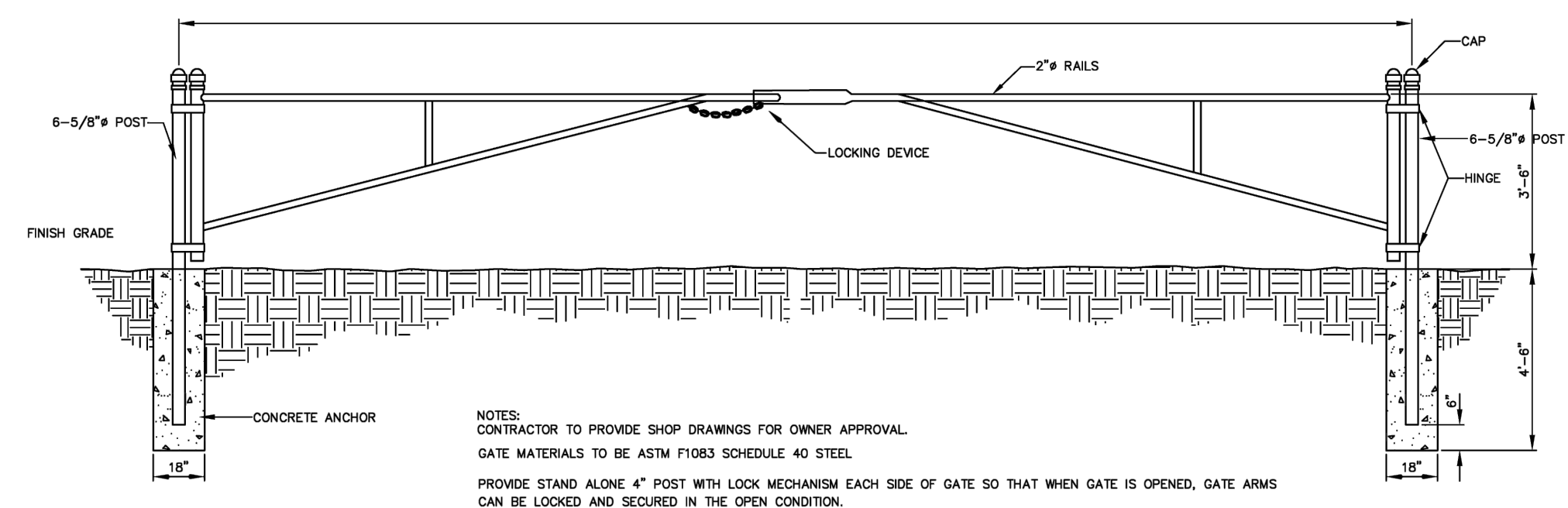
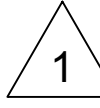
SCALE N.T.S. **1** FIBER ROLL



SCALE N.T.S. **2** SILT FENCE



SCALE N.T.S. **3** STABILIZED CONSTRUCTION ENTRANCE-EXIT



SCALE N.T.S. **4** DOUBLE SWING BARRIER ARM GATE DETAIL

REFERENCE(S)
 DETAILS OBTAINED FROM THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA)
 STORMWATER BEST MANAGEMENT PRACTICE (BMP) HANDBOOK, 2007, CHAPTER 10



ACQUISITION & DEVELOPMENT DIVISION
 One Capitol Mall
 Sacramento, CA
 95814-3229

CALIFORNIA STATE FIRE MARSHAL- APPROVED

Approval of this plan does not authorize or approve any omission of deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by	Date
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION	
CERTIFICATION #	
Reviewed by	Date
ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER	



DESIGNED:	KWW
DRAWN:	REDMOND
CHECKED:	RPCE
DATE:	03-17-2023

REVISIONS	
DATE	
ISSUED FOR BID	03/17/23

MALAKOFF DIGGINS STATE HISTORIC PARK
 PIT DRAINAGE RUNOFF BMP CONSTRUCTION
TEMPORARY EROSION AND SEDIMENT CONTROLS

DRAWING NO.
 154490214-17

SHEET NO.
C-9

20 OF 20

DRAFT
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