

CONSTRUCTION PLANS FOR

ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

SWINBURNE DAM GRADE CONTROL

STRUCTURES

ALBUQUERQUE, NEW MEXICO

INDEX

SHEET NUMBER	DWG NUMBER	DESCRIPTION
01	G-01	COVER SHEET, SHEET INDEX, VICINITY MAP, AND PROJECT LOCATION
02	G-02	GENERAL NOTES
03	G-03	SURVEY CONTROL
04	G-04	SITE PLAN
05	C-01	REMOVAL PLAN
06	C-02	GRADE CONTROL STRUCTRUE NB0 - TOP OF STRUCTURE
07	C-03	GRADE CONTROL STRUCTURE NB0 - LAYOUT AND FINAL GRADING
08	C-04	PLAN AND PROFILE - STA 101+00.00 TO STA 105+00.00
09	C-05	GRADE CONTROL STRUCTURE NB0 - STRUCTURE SECTIONS
10	C-06	GRADE CONTROL STRUCTURE NB0 - STRUCTURE SECTIONS
11	C-07	GRADE CONTROL STRUCTURE WB0 - TOP OF STRUCTURE
12	C-08	GRADE CONTROL STRUCTURE WB0 - LAYOUT AND FINAL GRADING
13	C-09	PLAN AND PROFILE - STA. 201+00 TO STA. 205+00
14	C-10	GRADE CONTROL STRUCTURE WB0 - STRUCTURE SECTIONS
15	C-11	GRADE CONTROL STRUCTURE WB0 - STRUCTURE SECTIONS
16	C-12	MAINTENANCE ACCESS ROAD 1
17	C-13	MAINTENANCE ACCESS ROAD 2
18	D-01	SECTIONS AND DETAILS 1
19	D-02	SECTIONS AND DETAILS 2
20	D-03	SECTIONS AND DETAILS 3
21	D-04	SECTIONS AND DETAILS 4
22	D-05	CROSS SECTIONS 1 NB0
23	D-06	CROSS SECTIONS 2 NB0
24	D-07	CROSS SECTIONS 3 WB0

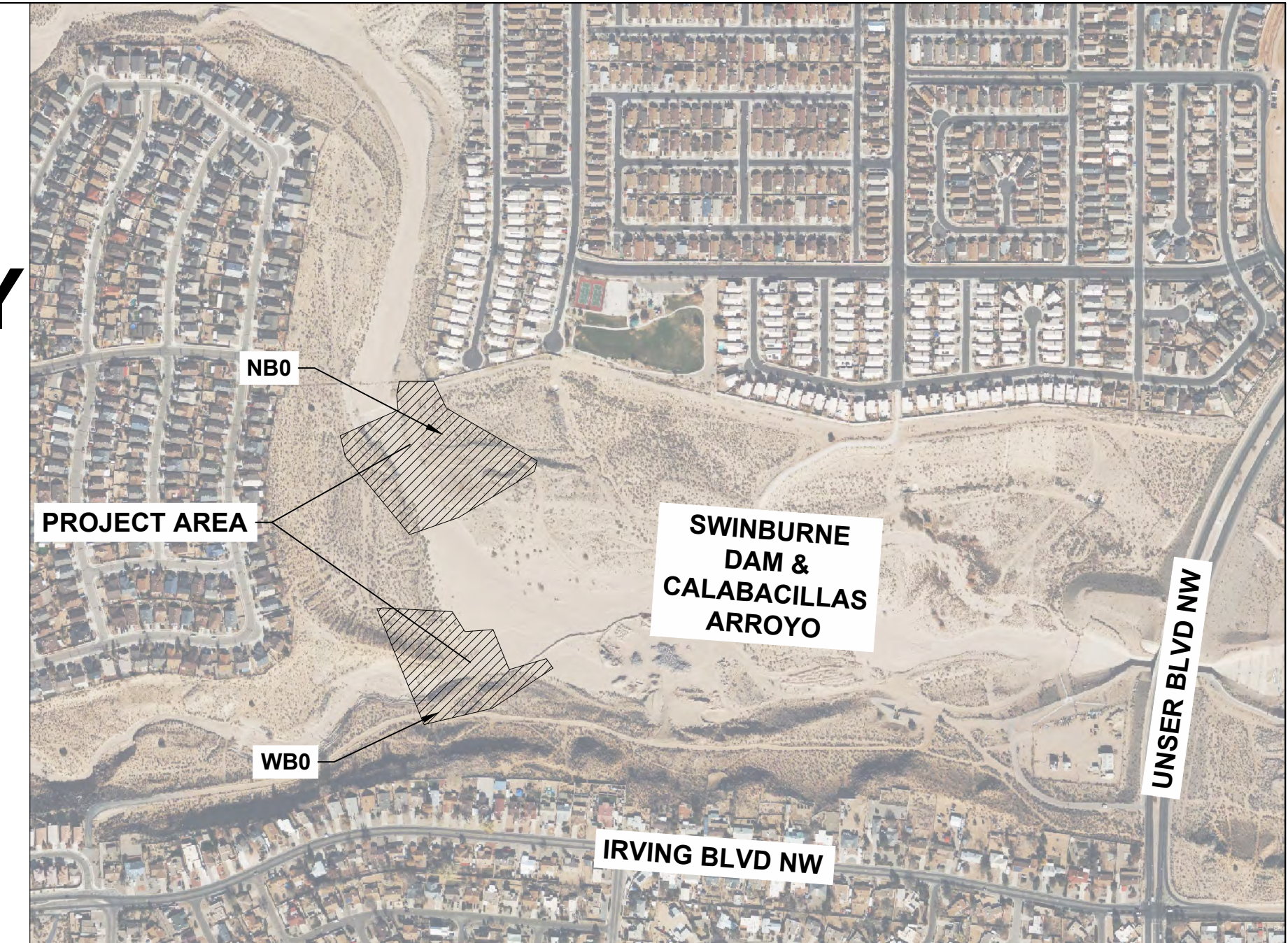
REFERENCES:

Geo-Test, Inc. Geotechnical Engineering Services Report Job No. 1-41206 - Swinburne Dam Grade Control Structures. January 2024.

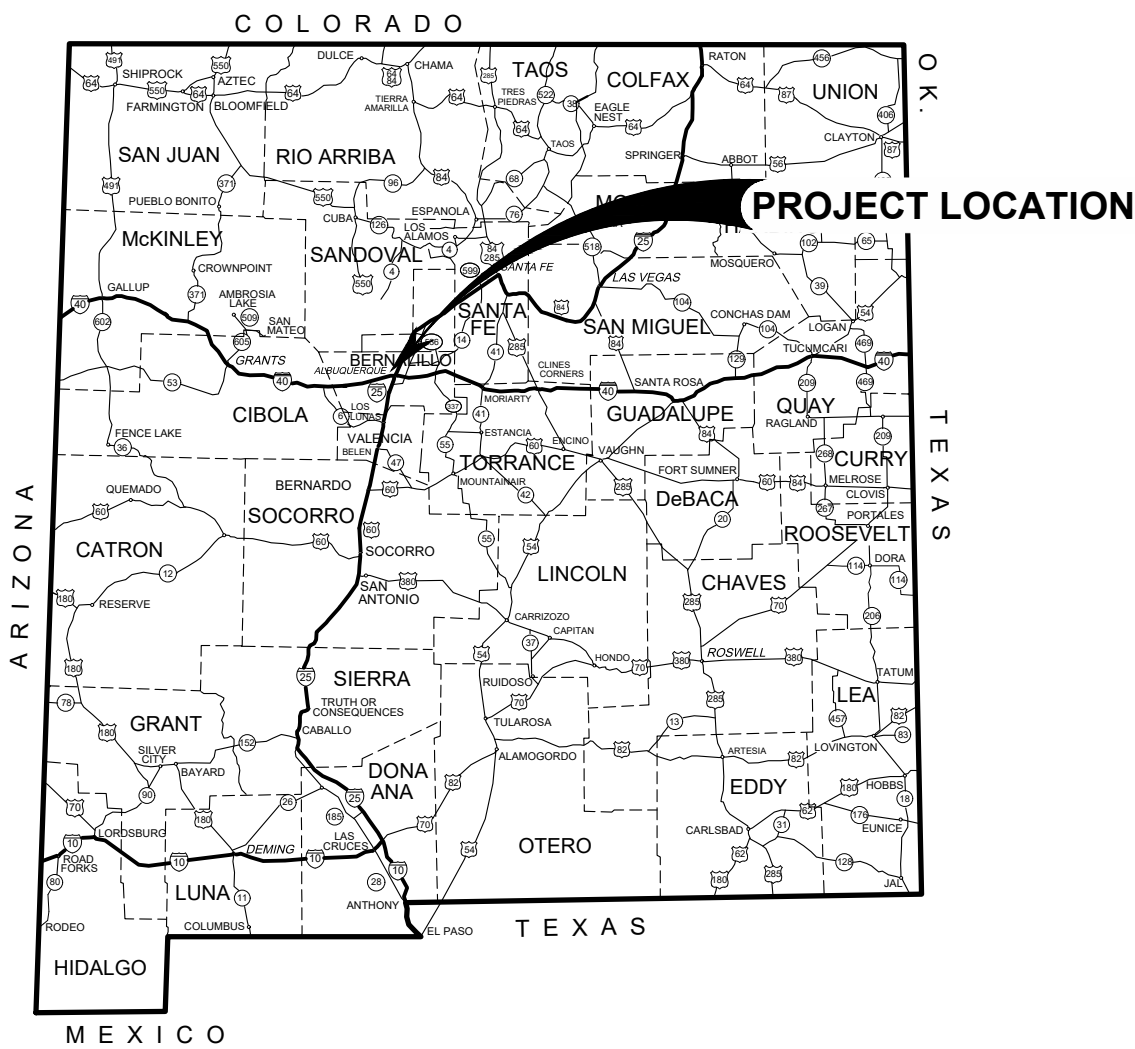
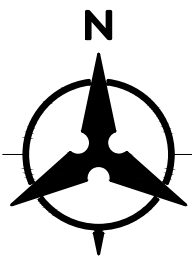
Mussetter, R.A., Lagassee, P.F., and Harvey, M.F., Sediment and Erosion Design Guide, prepared for Albuquerque Metropolitan Arroyo Flood Control Authority, March 1994.

Tetra Tech, Calabacillas Arroyo Facility Plan Above Swinburne Dam - Final, July 2021.

Tetra Tech, Swinburne Dam Grading Plan Memorandum, January 2022.



VICINITY MAP



Know what's below.
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July 7, 2025

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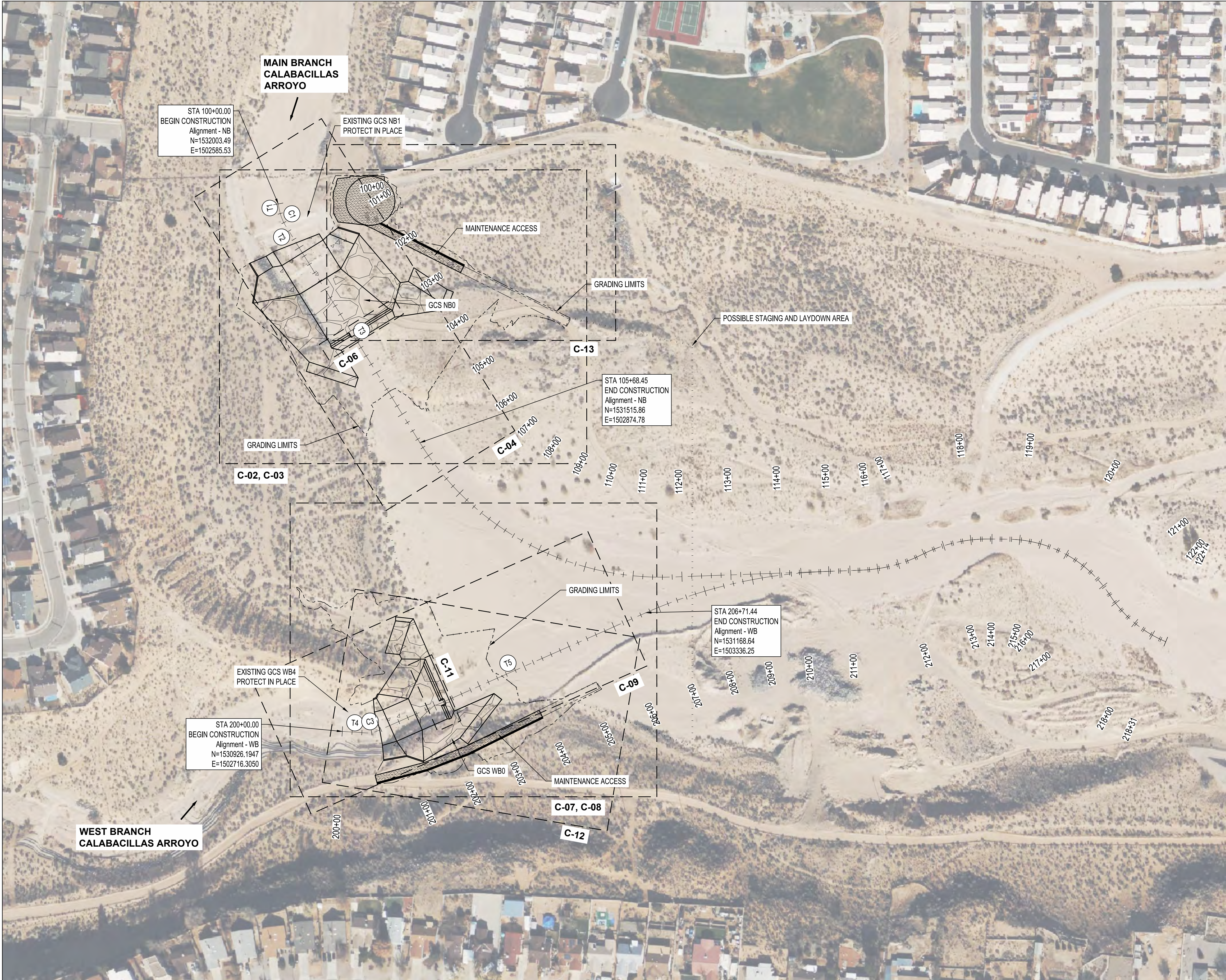
APPROVED FOR BIDDING AND CONSTRUCTION

KEVIN TROUTMAN
EXECUTIVE DIRECTOR

DATE

AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
COVER SHEET, SHEET INDEX,
VICINITY MAP, AND PROJECT LOCATION

BHI PROJECT NO. 20240392 DWG NO. G-01 SHEET 01 OF 24

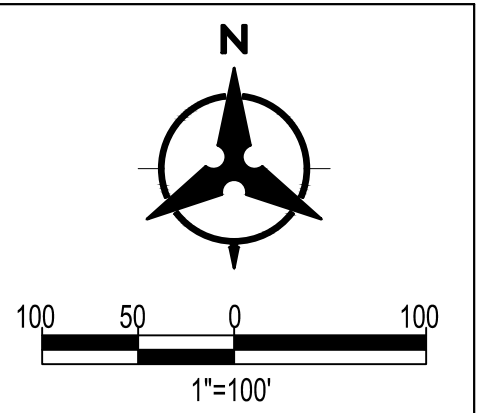


TANGENT TABLE Alignment - NB		
#	LENGTH	BEARING
T1	10.52	S10° 10' 23.45"E
T2	29.80	S31° 45' 31.19"E
T3	490.91	S31° 45' 31.19"E

CURVE TABLE Alignment - NB			
#	LENGTH	RADIUS	BEARING
C1	37.23	100.00	S21° 05' 38.28"E

TANGENT TABLE Alignment - WB		
#	LENGTH	BEARING
T4	48.94	S86° 25' 25.30"E
T5	598.64	N66° 13' 25.27"E

CURVE TABLE Alignment - WB			
#	LENGTH	RADIUS	BEARING
C3	23.87	50.00	N79° 53' 59.98"E



BENCH MARKS SHOWN ON SHEET 3									

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AS-BUILT INFORMATION						
	CONTRACTOR	DATE		WORK STARTED BY	DATE	
				INSPECTORS	DATE	
				ACCEPTANCE BY	DATE	
				FIELD VERIFICATION BY	DATE	
				DRAWINGS CORRECTED BY	DATE	

REVISIONS		BY	DATE

DESIGN		NO.	DATE
DESIGNED BY	ELA, RGS		
CHECKED BY	AC		
DRAWN BY	NEC		

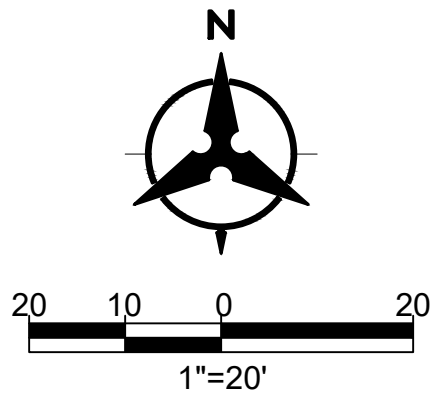


AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
SITE PLAN

WB4 REMOVALS		
ID	NORTHING	EASTING
20	1530900.48	1502794.45
21	1530897.07	1502797.63
22	1530873.49	1502800.31
23	1530906.84	1502852.75
24	1530908.87	1502855.30
25	1530919.12	1502872.91
26	1530933.78	1502919.48
27	1530959.98	1502919.43
28	1530945.05	1502866.31
29	1530937.51	1502852.61
30	1530931.96	1502843.09
31	1530915.69	1502811.40
32	1530961.71	1502780.24
33	1530956.64	1502801.32
34	1530958.11	1502807.21
35	1530988.21	1502799.80
36	1530983.59	1502780.34
37	1530965.83	1502781.83



- | | |
|--|--|
| | PROPERTY LINE |
| | EASEMENT LINE |
| | NEW MAJOR CONTOUR |
| | NEW MINOR CONTOUR |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | GRADING LIMITS |
| | EXCAVATION PAY LIMITS |
| | SANITARY SEWER LINE |
| | SANITARY SEWER MANHOLE |
| | STORM DRAIN LINE |
| | WATER LINE SUE ONE |
| | SHOTCRETE |
| | GROUTED BOULDER |
| | BURIED SHOTCRETE |
| | BURIED GROUTED BOULDER |
| | BASE COURSE |
| | DUMPED RIPRAP |
| | EXISTING STRUCTURE REMOVAL |
| | EXISTING RIPRAP TO BE REMOVED AND SALVAGED |
| | EXISTING STRUCTURE TO REMAIN |

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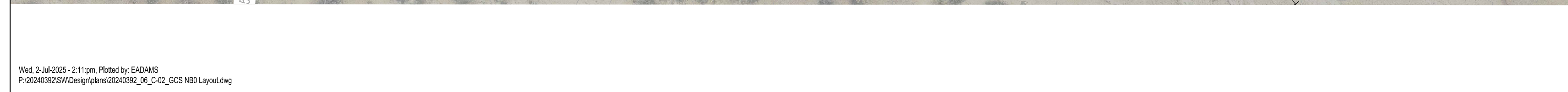
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CHECKED BY AC				
DRAWN BY NEC				

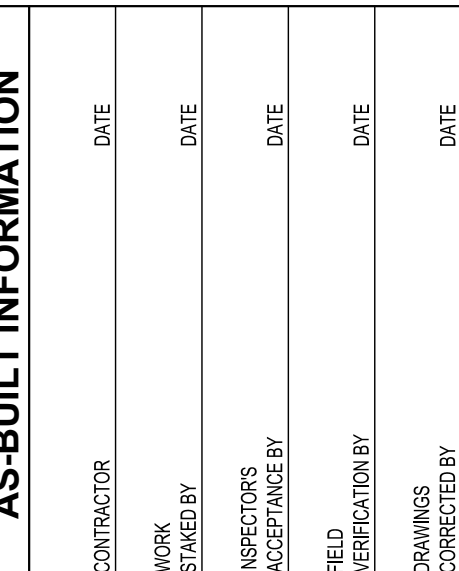
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REMOVAL PLAN**

BHI PROJECT NO. 20240392	DWG NO. C-01	SHEET 05 OF 24
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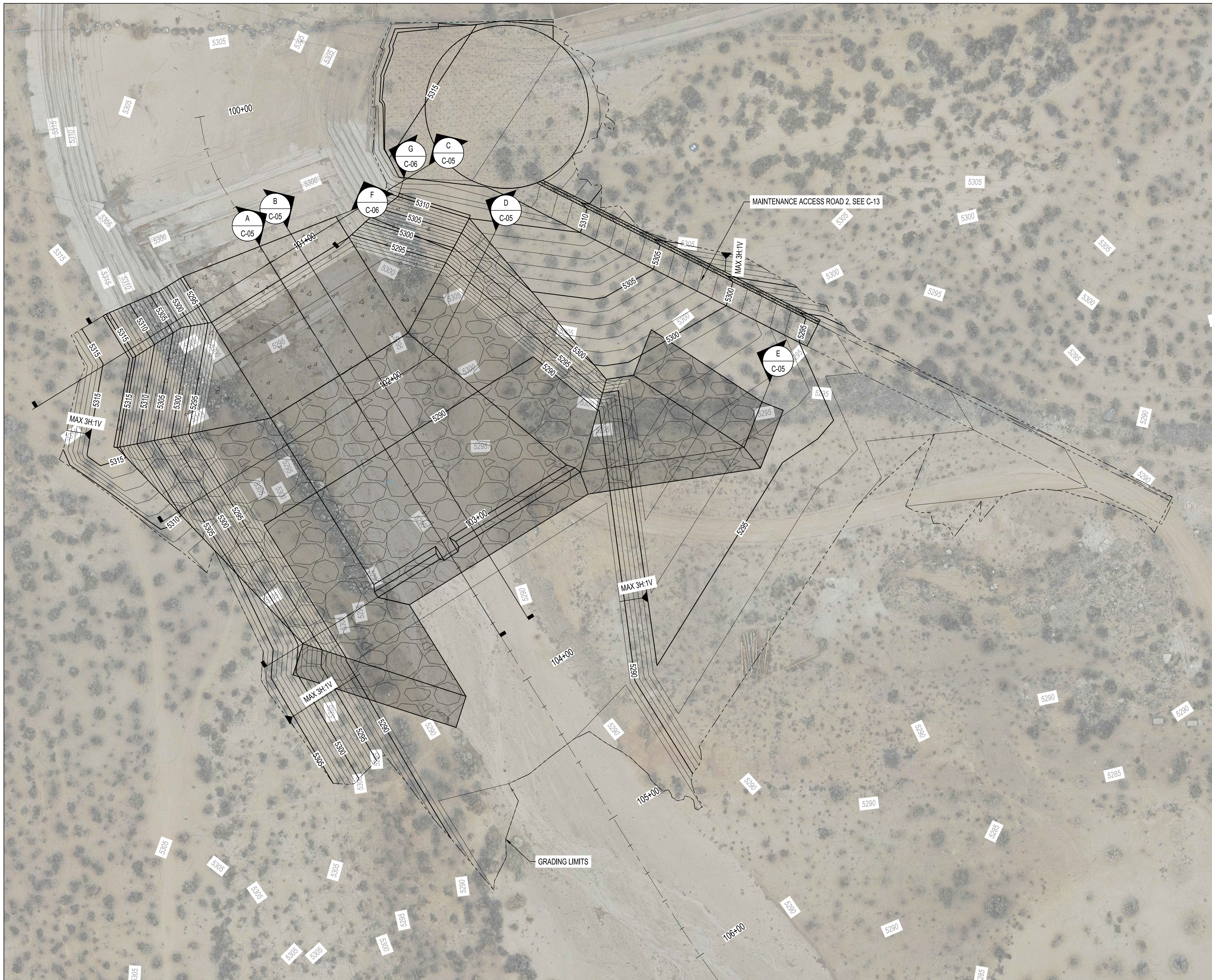


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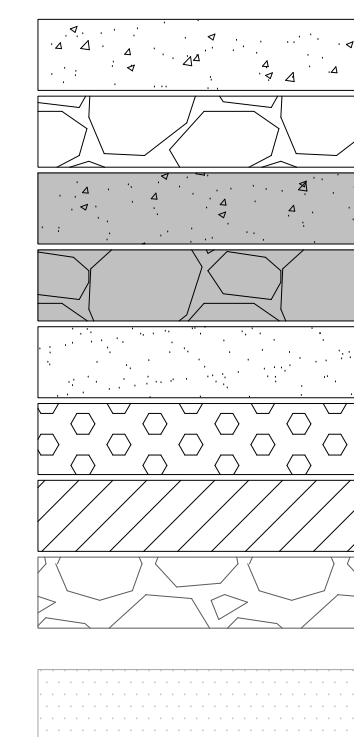
STRUCTURES
E NB0
ELEVATIONS

SHEET	06	OF	24
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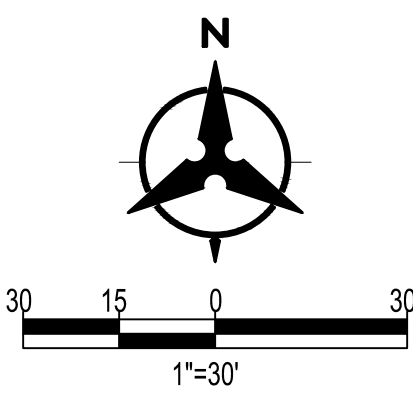


GENERAL NOTES

LEGEND



BENCH MARKS



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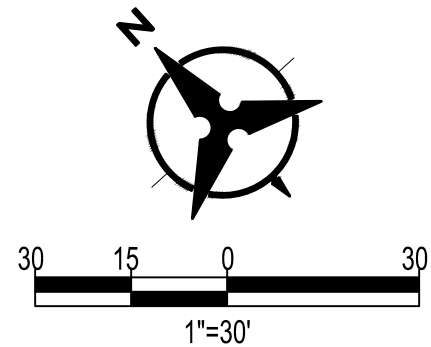
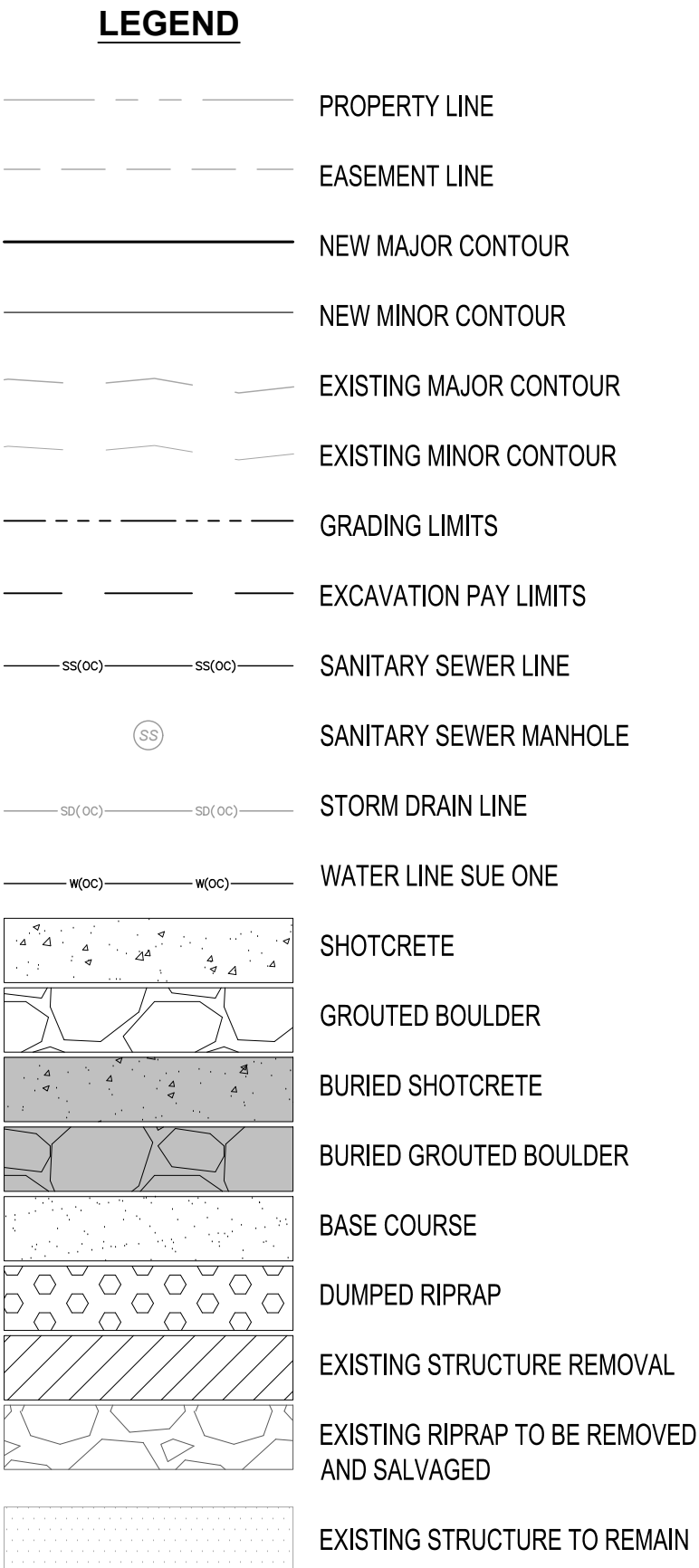
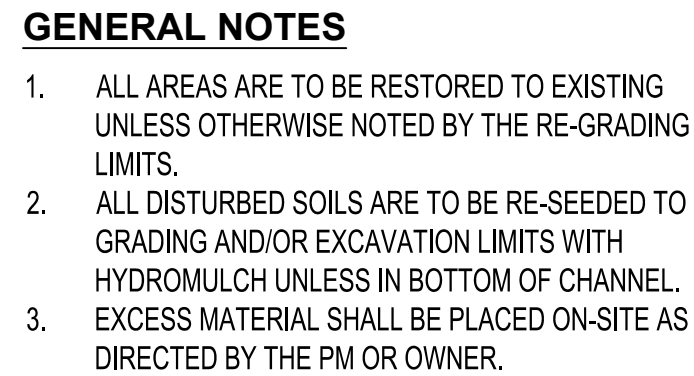
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				WORK	
				STAINED BY	DATE
CHECKED BY AC				INSPECTOR'S	DATE
				ACCEPTANCE BY	
				FIELD	
DRAWN BY NEC				VERIFICATION BY	DATE
				DRAWINGS	DATE
				CORRECTION BY	

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BHI PROJECT NO.

DWG NO.	
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	SHEET
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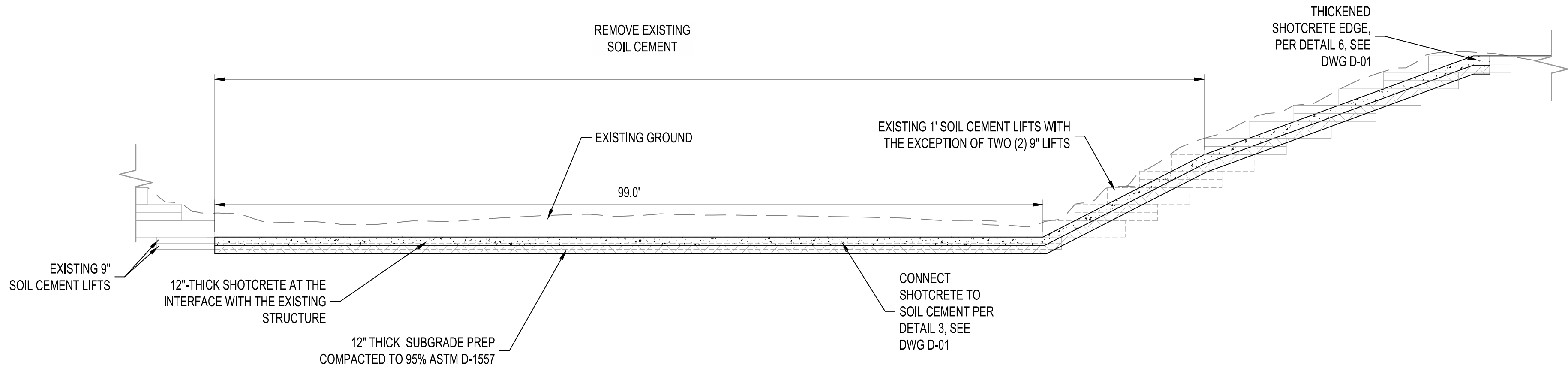
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CONTRACTOR	DATE
WORK STAINED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
REMARKS	

DESIGN		REVISIONS	
	NO.	DATE	BY
DESIGNED BY ELA RGS			
CHECKED BY AC			
DRAWN BY NEC			

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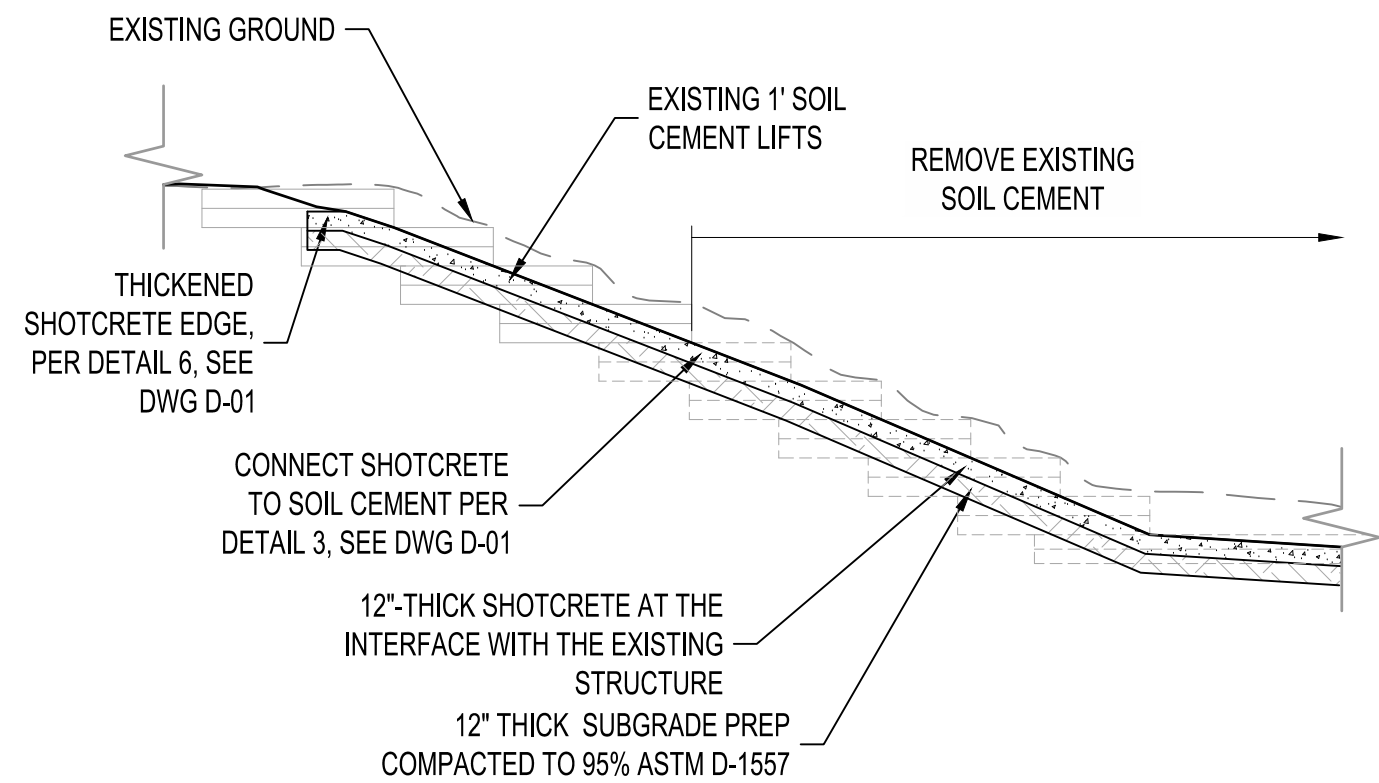
**AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
PLAN AND PROFILE
STA. 101+00 TO STA. 105+00**

BHI PROJECT NO.	DWG NO.	SHEET	OF
20240392	C-04	08	24



F
C-02
C-03

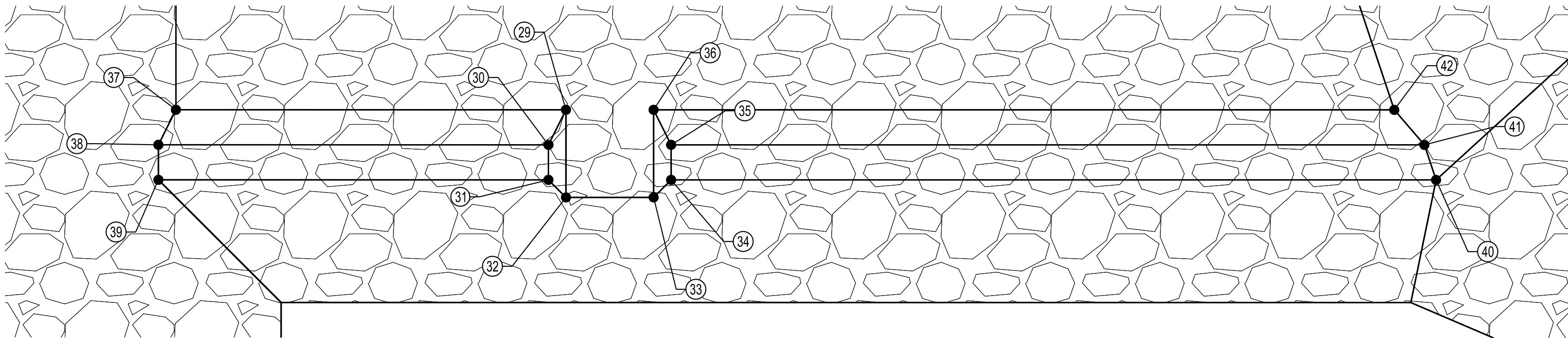
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G
C-02
C-03

SECTION G-G
SCALE: NOT TO SCALE

NB0 SILL POINT TABLE				
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
29	1531740.32 AB:	1502730.01 AB:	5271.00 AB:	TOP OF ROCK
30	1531735.87 AB:	1502730.42 AB:	5272.00 AB:	TOP OF ROCK
31	1531732.47 AB:	1502732.52 AB:	5272.00 AB:	TOP OF ROCK
32	1531731.82 AB:	1502735.28 AB:	5271.00 AB:	TOP OF ROCK
33	1531737.09 AB:	1502743.78 AB:	5271.00 AB:	TOP OF ROCK
34	1531739.84 AB:	1502744.42 AB:	5272.00 AB:	TOP OF ROCK
35	1531743.24 AB:	1502742.32 AB:	5272.00 AB:	TOP OF ROCK
36	1531745.59 AB:	1502738.51 AB:	5271.00 AB:	TOP OF ROCK
37	1531716.89 AB:	1502692.18 AB:	5271.00 AB:	TOP OF ROCK
38	1531712.44 AB:	1502692.58 AB:	5272.00 AB:	TOP OF ROCK
39	1531709.04 AB:	1502694.69 AB:	5272.00 AB:	TOP OF ROCK
40	1531785.79 AB:	1502818.62 AB:	5272.00 AB:	TOP OF ROCK
41	1531788.49 AB:	1502815.38 AB:	5272.00 AB:	TOP OF ROCK
42	1531790.08 AB:	1502810.35 AB:	5271.00 AB:	TOP OF ROCK



NB0 SILL POINTS



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SWINBURNE DAM GRADE CONTROL STRUCTURES
GRADE CONTROL STRUCTURE NB0
STRUCTURE SECTIONS

BHI PROJECT NO. 20240392 DWG NO. C-06 SHEET 10 OF 24

BENCH MARKS

BENCH MARKS SHOWN ON SHEET 3									

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AS-BUILT INFORMATION

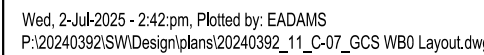
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REVISIONS

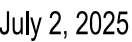
BY	DATE	NO.	DATE

DESIGN

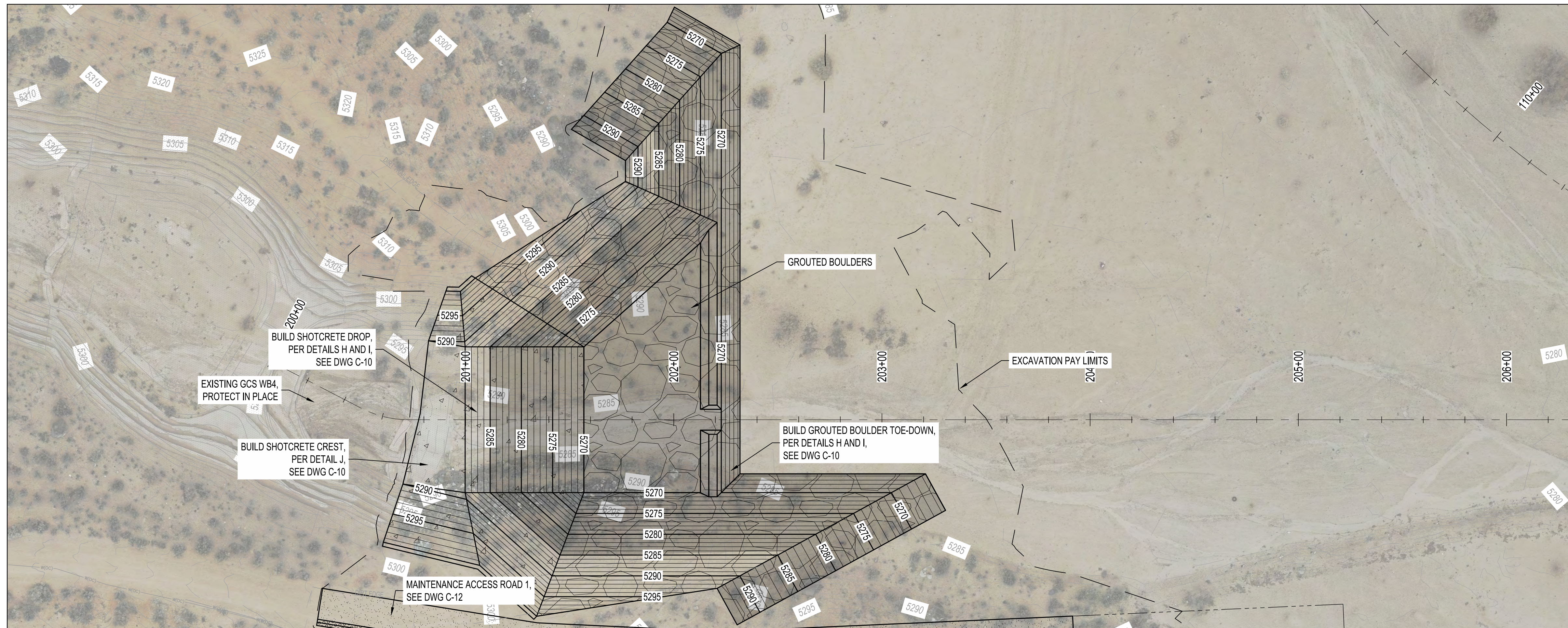
DESIGNED BY ELA, RGS	CHECKED BY AC	DRAWN BY NEC



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SWINBURNE DAM GRADE CONTROL STRUCTURES
GRADE CONTROL STRUCTURE WB0
TOP OF STRUCTURE GRADING AND ELEVATIONS



SHEET	11	OF	24
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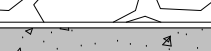
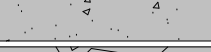

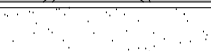
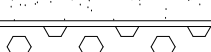

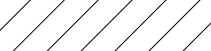

GENERAL NOTES

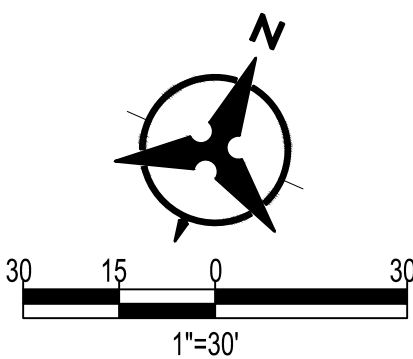
1. ALL AREAS ARE TO BE RESTORED TO EXISTING UNLESS OTHERWISE NOTED BY THE RE-GRADING LIMITS.
2. ALL DISTURBED SOILS ARE TO BE RE-SEED TO GRADING AND/OR EXCAVATION LIMITS WITH HYDROMULCH UNLESS IN BOTTOM OF CHANNEL.
3. EXCESS MATERIAL SHALL BE PLACED ON-SITE AS DIRECTED BY THE PM OR OWNER.

LEGEND

-
- PROPERTY LINE
- EASEMENT LINE
- NEW MAJOR CONTOUR
- NEW MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- GRADING LIMITS
- EXCAVATION PAY LIMITS

- SS(OC) — SS(OC) — SANITARY SEWER LINE
- SS — SANITARY SEWER MANHOLE
- SD(OC) — SD(OC) — STORM DRAIN LINE
- W(OC) — W(OC) — WATER LINE SUE ONE

- | | |
|---|---|
|  | SHOTCRETE |
|  | GROUTED BOULDER |
|  | BURIED SHOTCRETE |
|  | BURIED GROUTED BOULDER |
|  | BASE COURSE |
|  | DUMPED RIPRAP |
|  | EXISTING STRUCTURE REMOVAL |
|  | EXISTING RIPRAP TO BE REMOVED
AND SALVAGED |
|  | EXISTING STRUCTURE TO REMAIN |



BENCH MARKS

BENCH MARK
BENCHMARKS SHOWN ON SHEET 3

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AS-BUILT INFORMATION

AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

REVISIONS

[illegible]

DESIGN

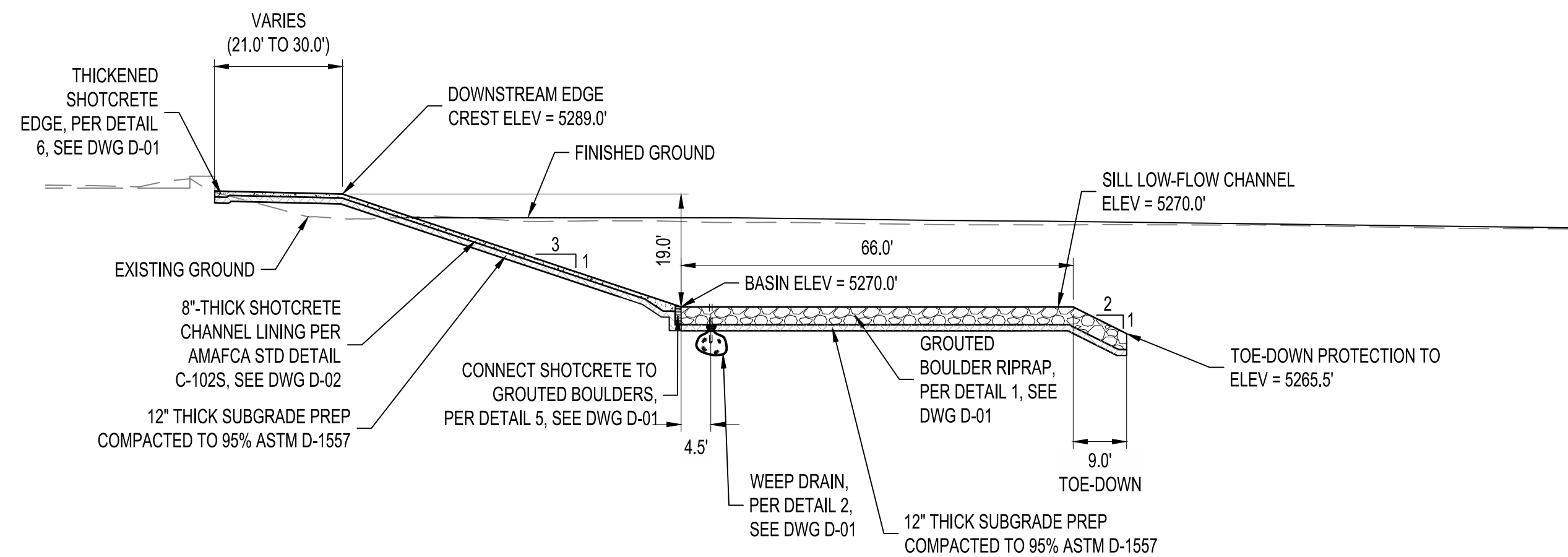
DESIGN
DESIGNED BY ELA, RGS
CHECKED BY AC
DRAWN BY NEC

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SWINBURNE DAM GRADE CONTROL STRUCTURES
PLAN AND PROFILE
STA. 201+00 TO STA. 205+00

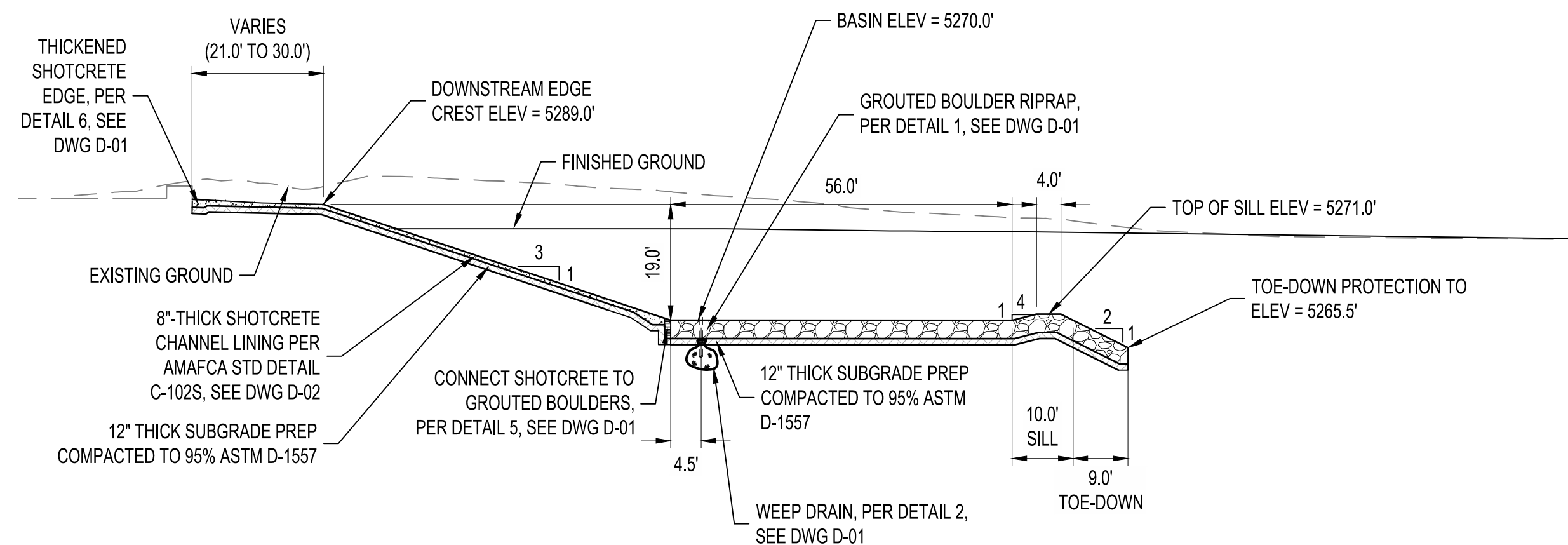
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BHI PROJECT NO.	DWG NO.	SHEET	OF
20240392	C-09	13	24

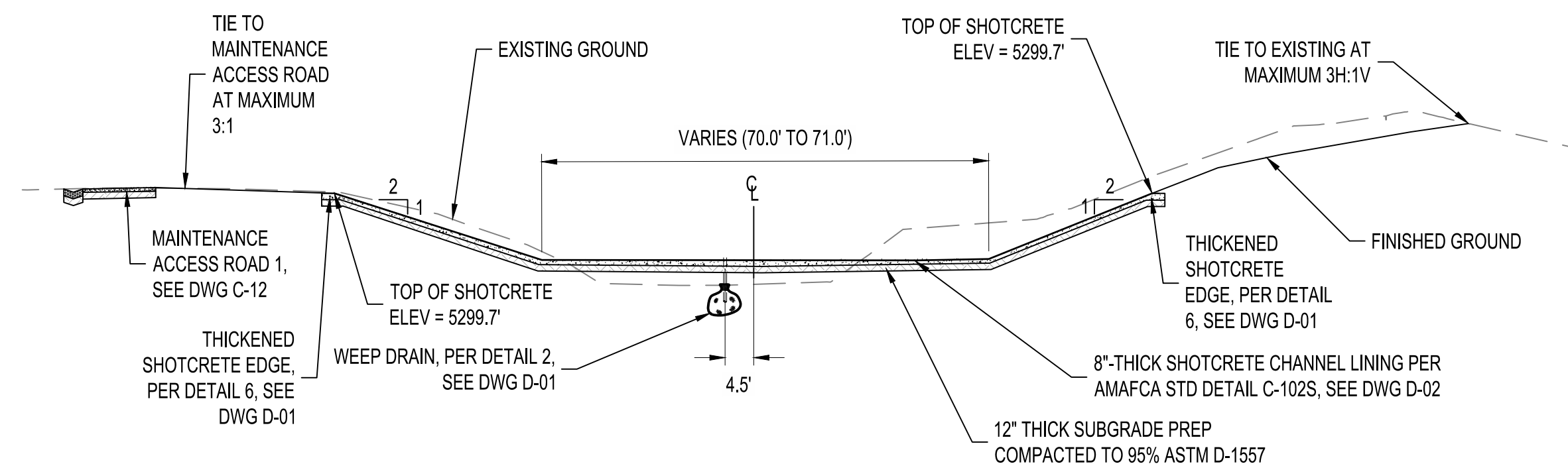
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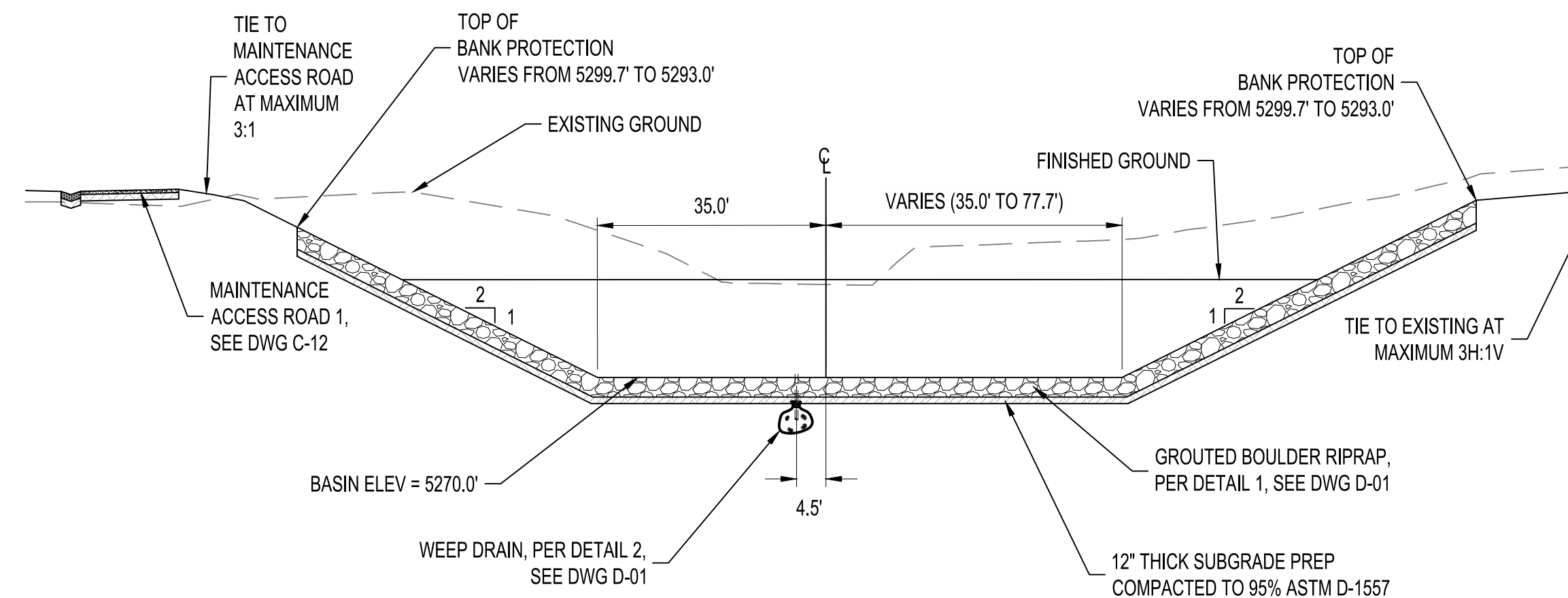
M
C-07
C-08



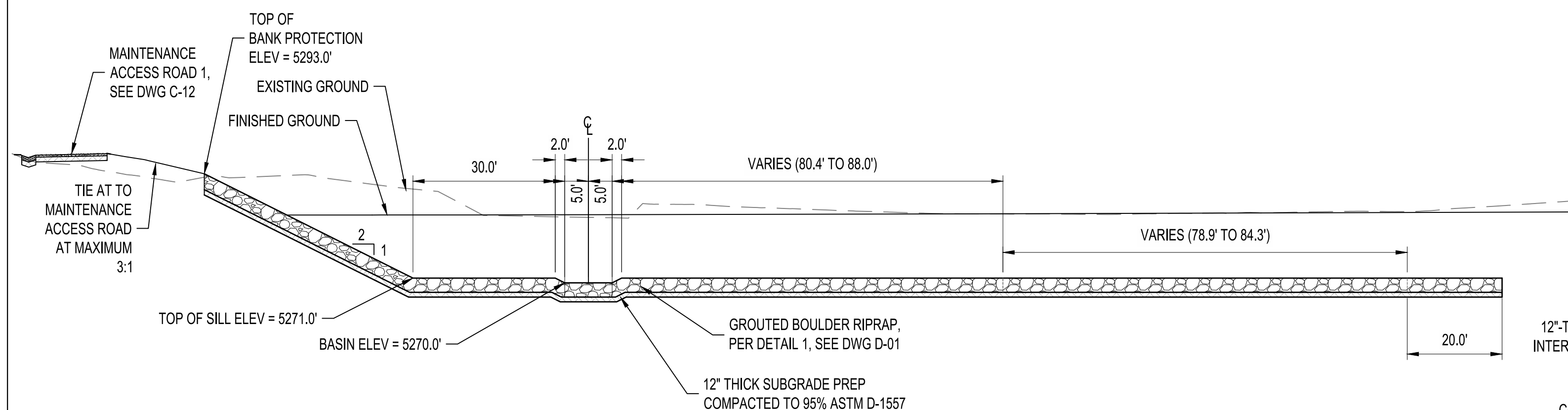
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C-07
C-08



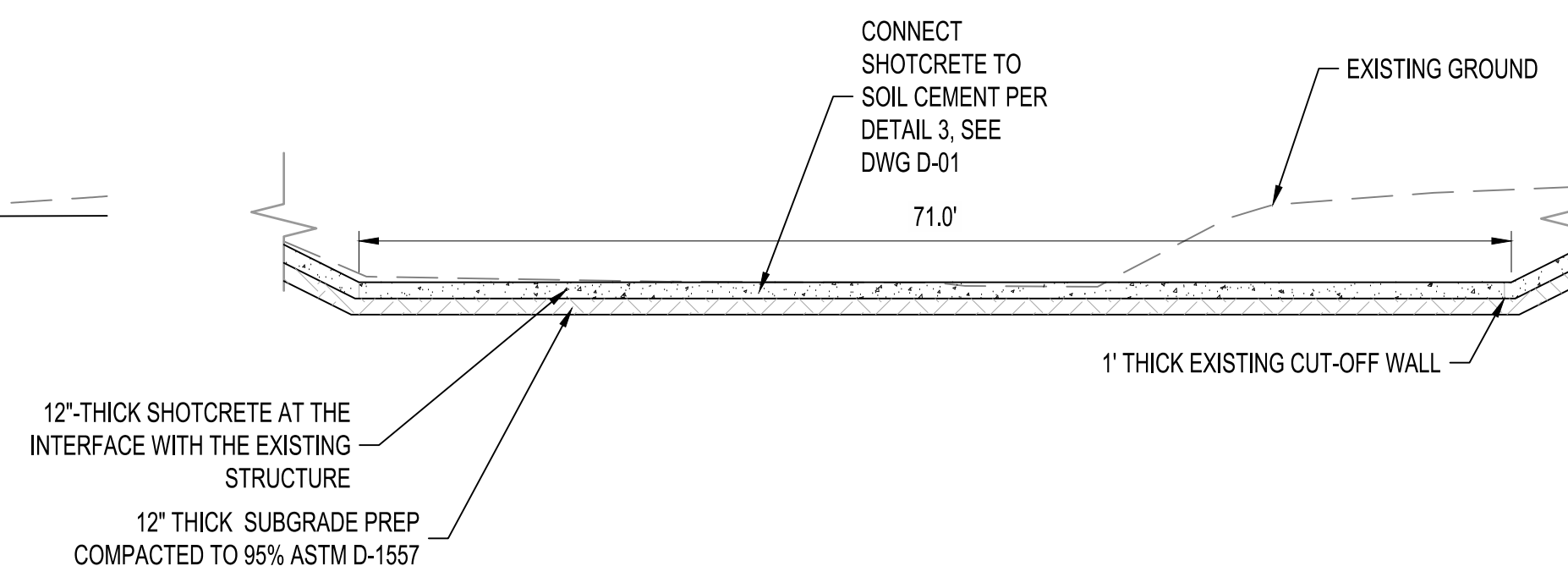
SECTION J-J
SCALE: NOT TO SCALE



SECTION K-K
SCALE: NOT TO SCALE



SECTION L-L
SCALE: NOT TO SCALE



SECTION M-M
SCALE: NOT TO SCALE

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AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAGED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
REMARKS	

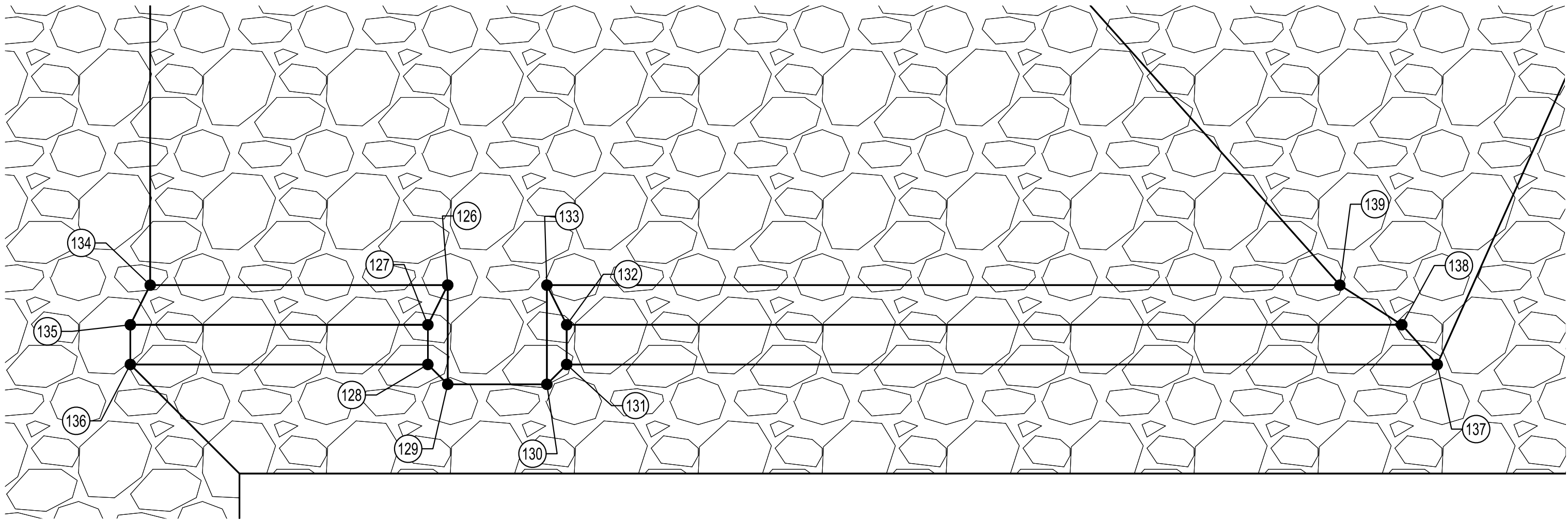
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	DESIGN
DESIGNED BY	ELA, RGS
CHECKED BY	AC
DRAWN BY	NEC

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AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
GRADE CONTROL STRUCTURE WB0
STRUCTURE SECTIONS

BHI PROJECT NO.	DWG NO.	SHEET	OF
20240392	C-10	14	24



WB0 SILL POINTS

WB0 SILL POINT TABLE				
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
126	1530979.16 AB:	1502918.57 AB:	5270.00 AB:	TOP OF ROCK
127	1530978.95 AB:	1502923.04 AB:	5271.00 AB:	TOP OF ROCK
128	1530980.56 AB:	1502926.70 AB:	5271.00 AB:	TOP OF ROCK
129	1530983.19 AB:	1502927.72 AB:	5270.00 AB:	TOP OF ROCK
130	1530992.35 AB:	1502923.69 AB:	5270.00 AB:	TOP OF ROCK
131	1530993.37 AB:	1502921.06 AB:	5271.00 AB:	TOP OF ROCK
132	1530991.76 AB:	1502917.40 AB:	5271.00 AB:	TOP OF SILL
133	1530988.31 AB:	1502914.54 AB:	5270.00 AB:	TOP OF ROCK
134	1530951.71 AB:	1502930.67 AB:	5270.00 AB:	TOP OF ROCK
135	1530951.49 AB:	1502935.13 AB:	5271.00 AB:	TOP OF ROCK
136	1530953.10 AB:	1502938.79 AB:	5271.00 AB:	TOP OF ROCK
137	1531073.71 AB:	1502885.66 AB:	5271.00 AB:	TOP OF ROCK
138	1531068.83 AB:	1502883.44 AB:	5271.00 AB:	TOP OF ROCK
139	1531061.49 AB:	1502882.30 AB:	5270.00 AB:	TOP OF ROCK

BENCH MARKS

BENCHMARKS SHOWN ON SHEET 3									

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AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STARTED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

NO.	DATE	BY

DESIGN

DESIGNED BY	ELA RGS	CHECKED BY	AC	DRAWN BY	NEC



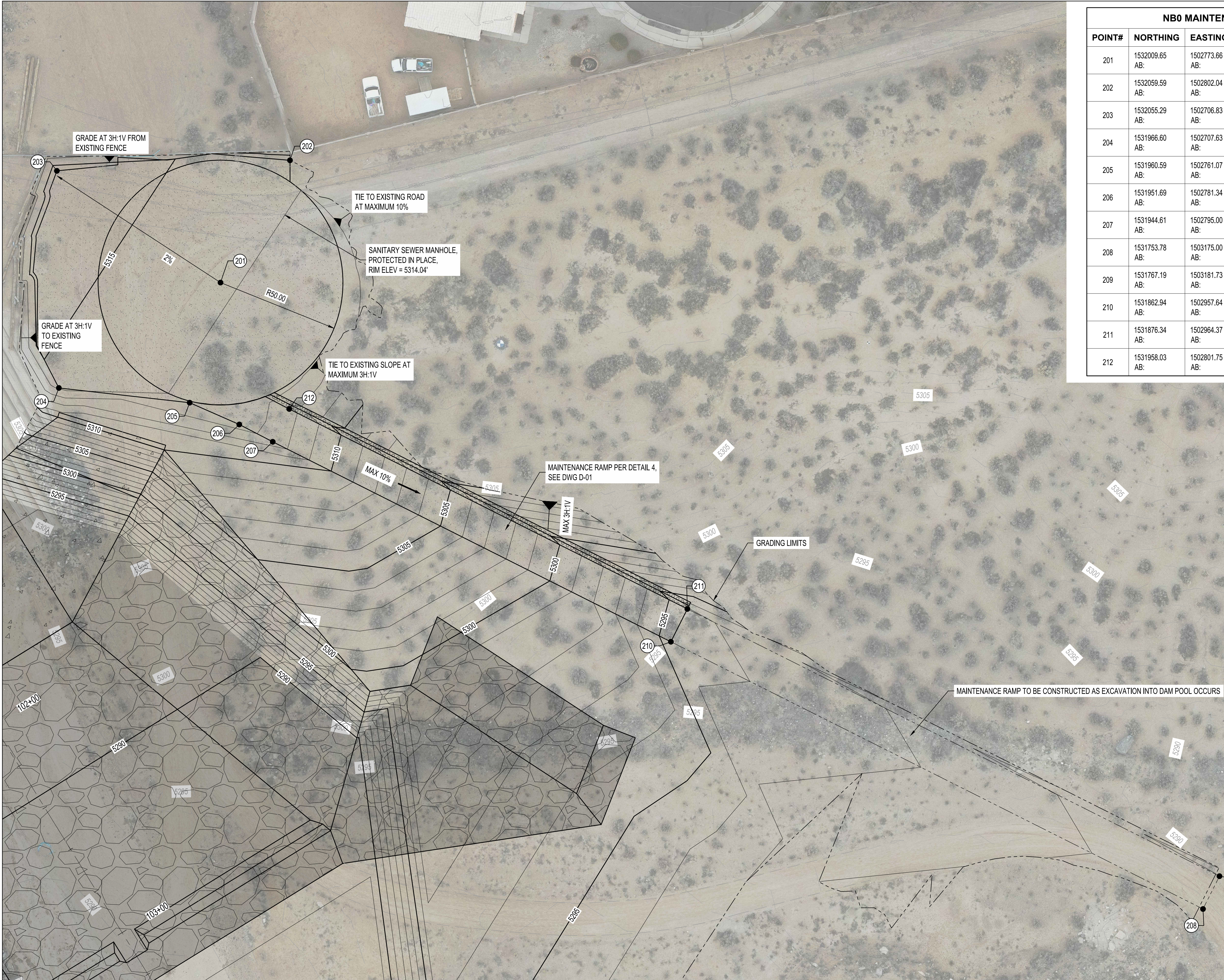
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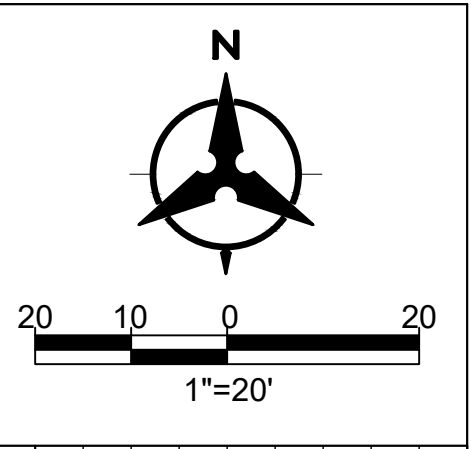
Huston
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SWINBURNE DAM GRADE CONTROL STRUCTURES
GRADE CONTROL STRUCTURE WB0
STRUCTURE SECTIONS

BHI PROJECT NO.	20240392	DWG NO.	C-11	SHEET	15	OF	24
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NB0 MAINTENANCE ROAD POINT TABLE				
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
201	1532009.65 AB:	1502773.66 AB:	5313.83 AB:	CENTER OF TURNAROUND
202	1532059.59 AB:	1502802.04 AB:	0.00 AB:	TOP OF BASE COURSE
203	1532055.29 AB:	1502706.83 AB:	5315.76 AB:	TOP OF BASE COURSE
204	1531966.60 AB:	1502707.63 AB:	5314.77 AB:	TOP OF BASE COURSE
205	1531960.59 AB:	1502761.07 AB:	5313.48 AB:	TOP OF BASE COURSE
206	1531951.69 AB:	1502781.34 AB:	5313.07 AB:	TOP OF BASE COURSE
207	1531944.61 AB:	1502795.00 AB:	5312.67 AB:	TOP OF BASE COURSE
208	1531753.78 AB:	1503175.00 AB:	5290.75 AB:	TOP OF BASE COURSE, MATCH EXISTING
209	1531767.19 AB:	1503181.73 AB:	5291.56 AB:	TOP OF BASE COURSE, MATCH EXISTING
210	1531862.94 AB:	1502957.64 AB:	5294.46 AB:	TOP OF BASE COURSE
211	1531876.34 AB:	1502964.37 AB:	5294.16 AB:	TOP OF BASE COURSE
212	1531958.03 AB:	1502801.75 AB:	5312.36 AB:	TOP OF BASE COURSE



BENCH MARKS

BENCHMARKS SHOWN ON SHEET 3

ENGINEER'S SEAL

90% FOR
REVIEW
ONLY

July 2, 2025

AS-BUILT INFORMATION

BY

REVISIONS

DESIGN

CONTRACTOR	DATE
WORK STARTED BY	DATE
INSPECTORS ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

BY	
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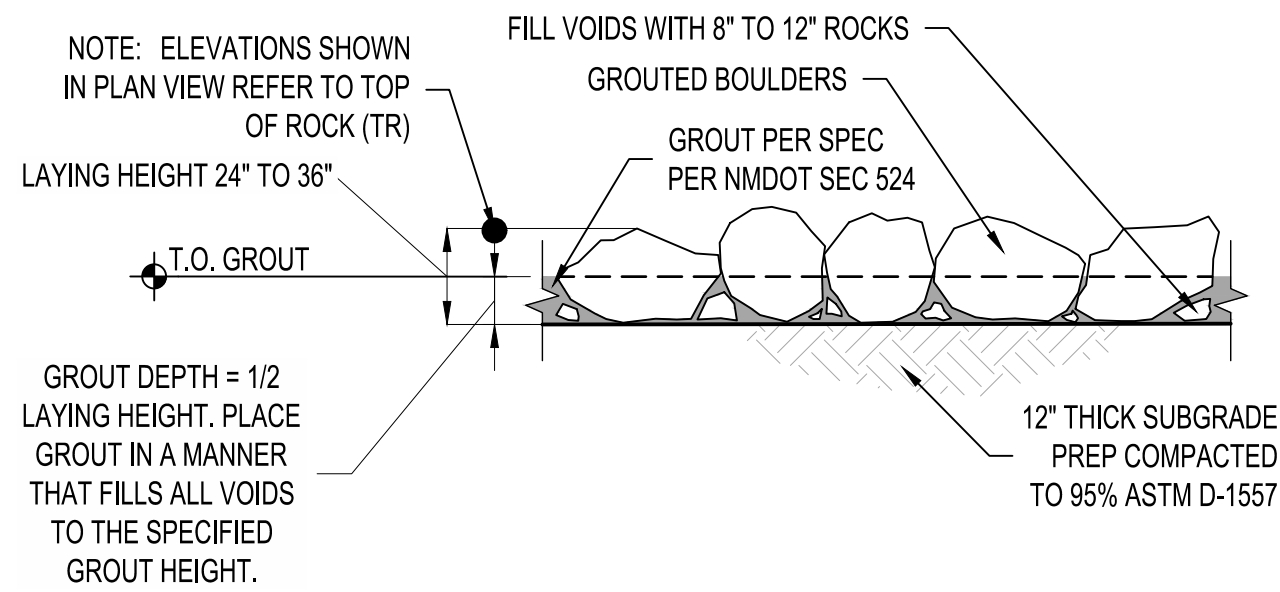
NO.	DATE

DESIGNED BY ELA RGS	CHECKED BY AC	DRAWN BY NEC
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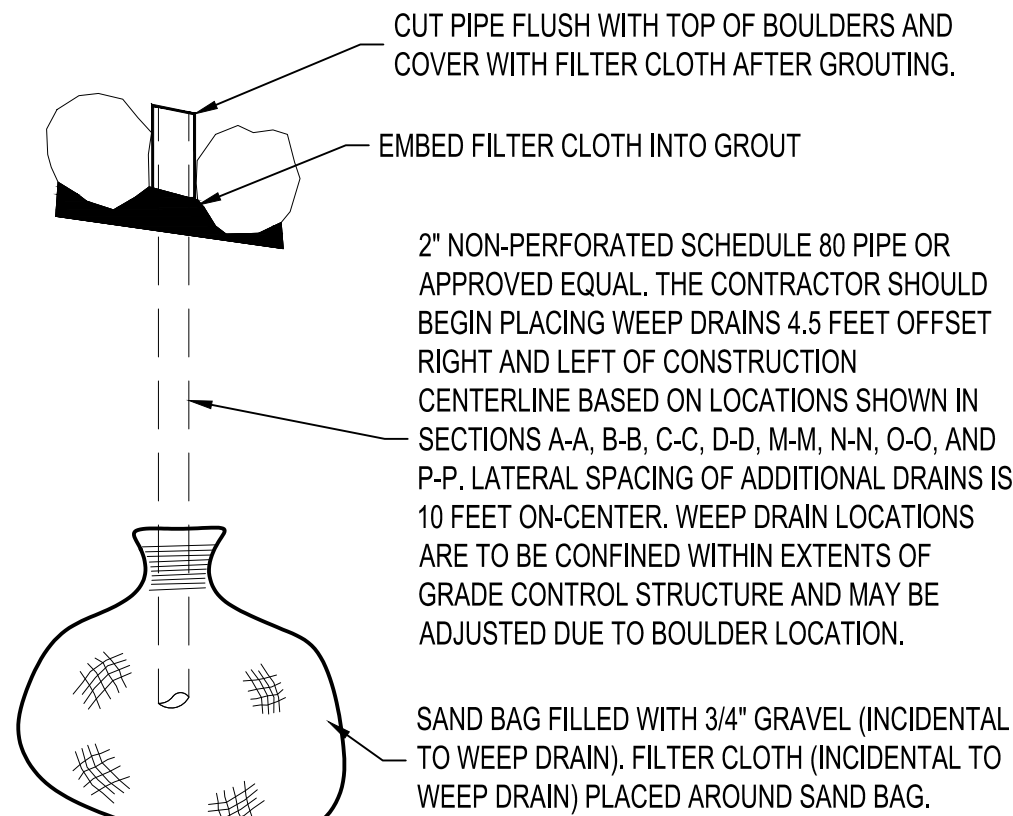


AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
MAINTENANCE ACCESS ROAD 2

BHI PROJECT NO.	20240392	DWG NO.	C-13	SHEET	17	OF	24
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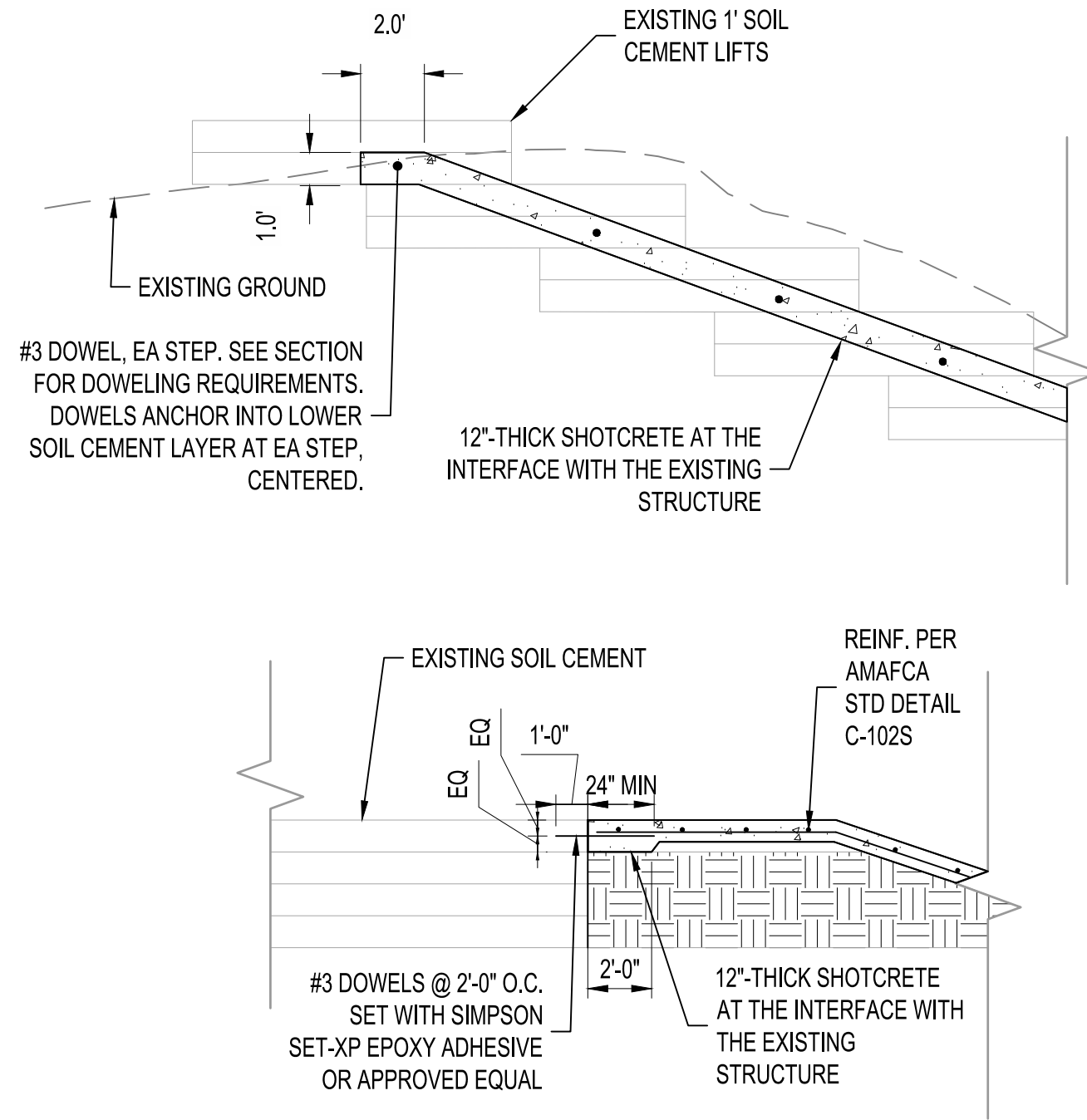


1 GROUTED BOULDER
SCALE: NOT TO SCALE

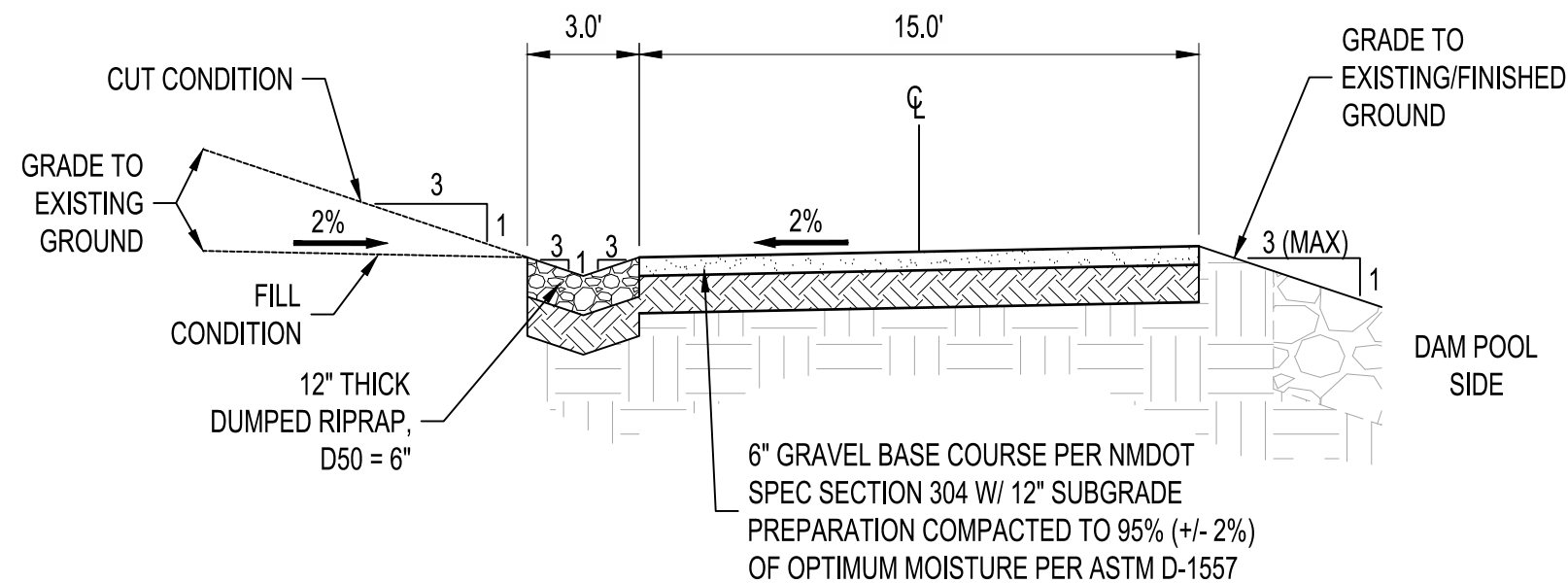


NOTE:
CONTRACTOR SHALL PLACE BOULDERS ON EACH SIDE OF THE PVC
WEEP DRAIN MAKING SURE NOT TO DAMAGE THE PVC PIPE.

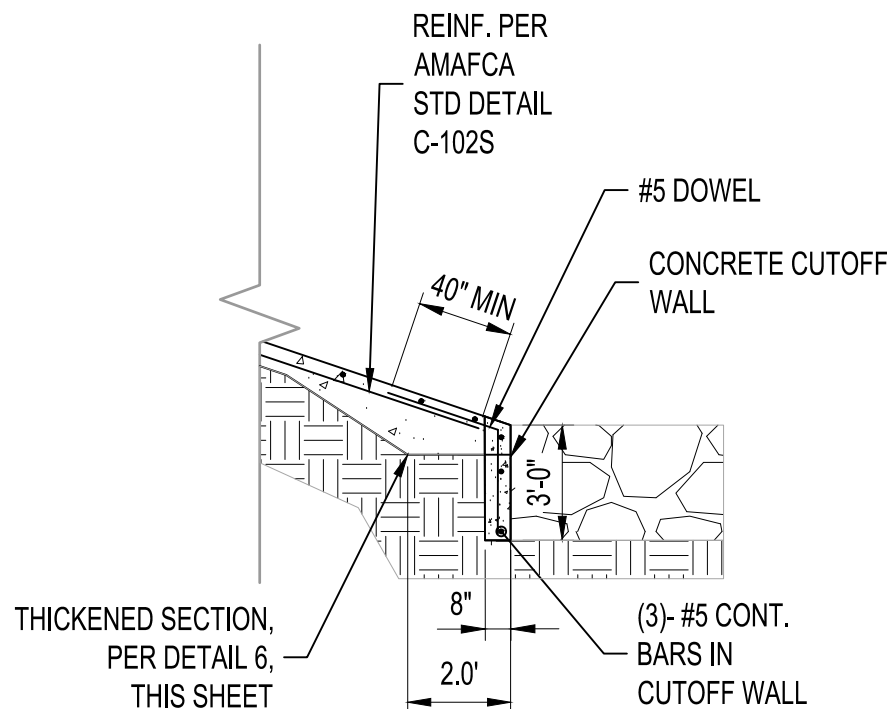
2 WEEP DRAIN
SCALE: NOT TO SCALE



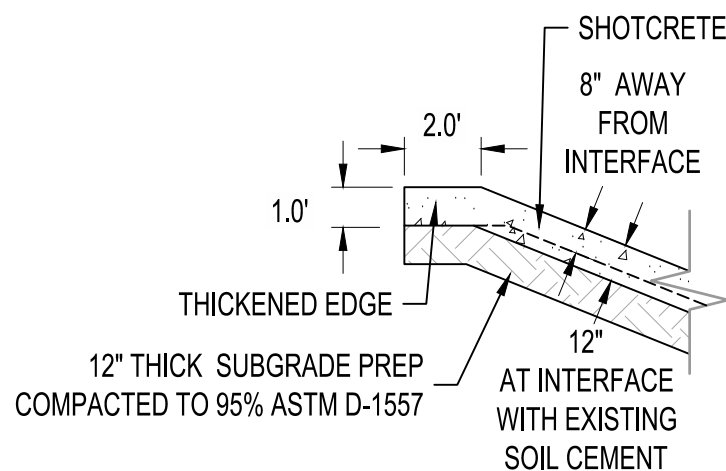
3 SHOTCRETE TO EXISITNG SOIL CEMENT CONNECTION
SCALE: NOT TO SCALE



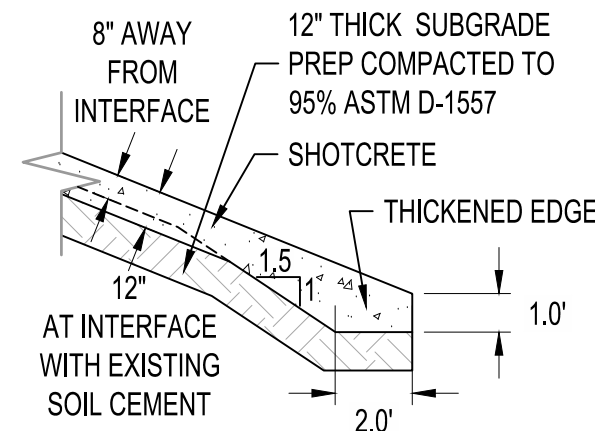
4 MAINTENANCE RAMP
SCALE: NOT TO SCALE



5 SHOTCRETE TO RIPRAP CONNECTION CUTOFF WALL
SCALE: NOT TO SCALE



6 THICKENED EDGE AT TOP OF SLOPE
SCALE: NOT TO SCALE



7 THICKENED EDGE AT BOTTOM OF SLOPE
SCALE: NOT TO SCALE

BENCH MARKS

BENCHMARKS SHOWN ON SHEET 3

ENGINEER'S SEAL

90% FOR
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July 2, 2025

AS-BUILT INFORMATION

CONTRACTOR	DATE	WORK STARTED BY	DATE	INSPECTORS ACCEPTANCE BY	DATE	FIELD VERIFICATION BY	DATE	DRAWINGS CORRECTED BY	DATE

REVISIONS

BY	DATE	NO.	DATE

DESIGN

DESIGNED BY	CHECKED BY	DRAWN BY
ELA, RGS	AC	NEC

Bohannon & Huston
www.bhinc.com 800.877.5332

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SWINBURNE DAM GRADE CONTROL STRUCTURES
SECTIONS AND DETAILS 1**

BHI PROJECT NO. 20240392 DWG NO. D-01 SHEET 18 OF 24

THIS SHEET INTENTIONALLY LEFT BLANK.
IT WILL EITHER BE USED OR REMOVED FOR FINAL DESIGN.

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SWINBURNE DAM GRADE CONTROL STRUCTURES
SECTIONS AND DETAILS 3

BHI PROJECT NO. 20240392	DWG NO. D-03	SHEET 20 OF 24
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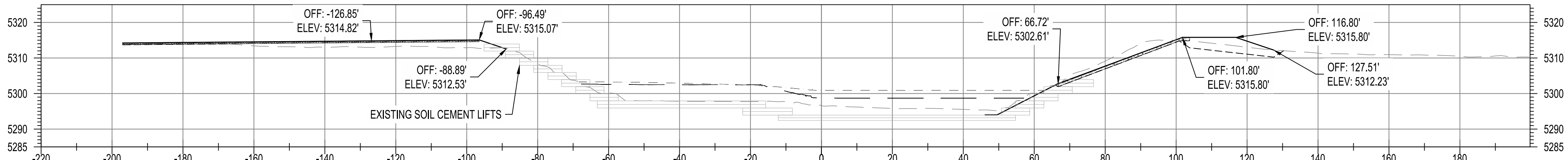


Huston

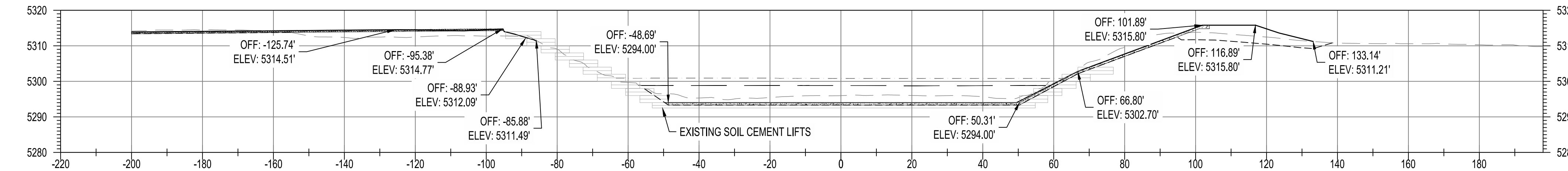
800.877.5332

AMAFCA SWINBURNE DAM GRADE CONTROL STRUCTURES SECTIONS AND DETAILS 4			
BHI PROJECT NO.	20240392	DWG NO.	D-04
SHEET	21	OF	24

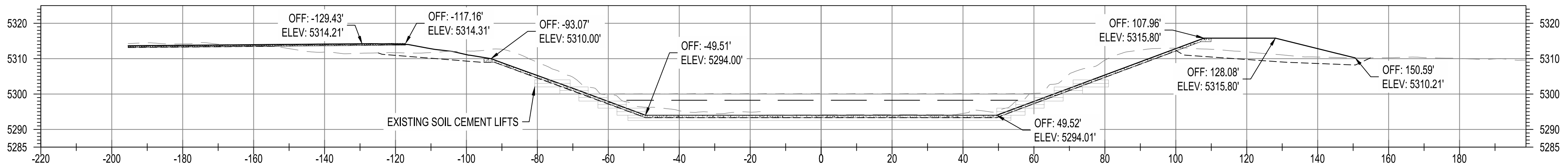
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DESIGNED BY	ELA RGS	NO.	DATE	BY	BY	CONTRACTOR	DATE	BENCHMARKS SHOWN ON SHEET 3	
CHECKED BY	AC					WORK STARTED BY	DATE		
DRAWN BY	NEC					INSPECTORS ACCEPTANCE BY	DATE		
						FIELD VERIFICATION BY	DATE		
						DRAWINGS CORRECTED BY	DATE		



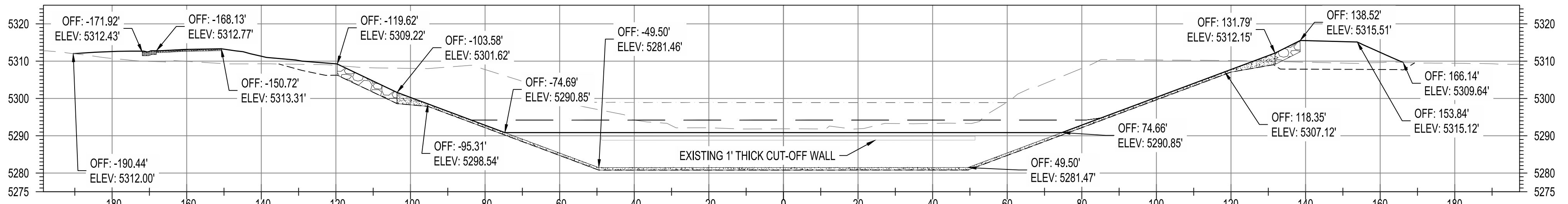
STA. 100+80.00



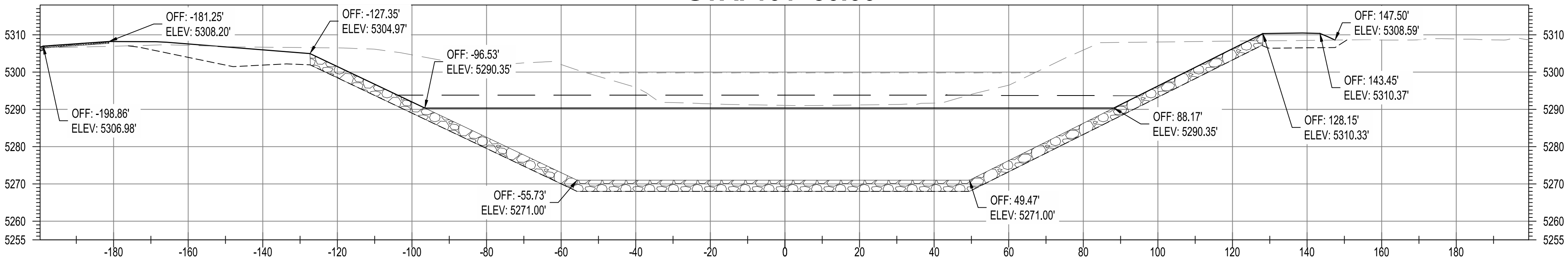
STA. 100+97.40



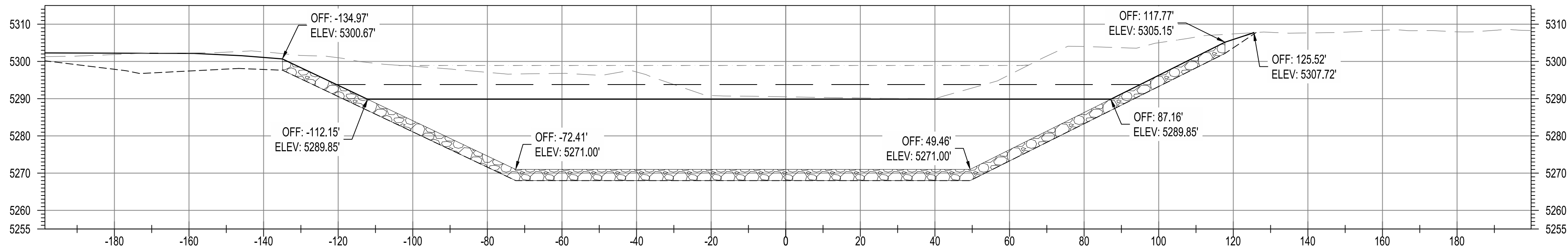
STA. 101+12.40



STA. 101+50.00



STA. 102+00.00



STA. 102+50.00

- LEGEND
- EXISTING GROUND
 - FINISHED GROUND
 - EXISTING 100-YR WSEL, Q = 14,100 CFS
 - PROPOSED 100-YR WSEL, Q = 14,100 CFS
 - EXCAVATION LIMITS
 - TURNAROUND/MAINTENANCE ROAD
 - DUMPED RIPRAP
 - SHOTCRETE
 - GROUTED BOULDERS

BENCH MARKS SHOWN ON SHEET 3

ENGINEER'S SEAL

90% FOR REVIEW ONLY

July 7, 2025

AS-BUILT INFORMATION

BY

REVISIONS

DATE

NO.

DESIGN

DESIGNED BY ELA, RGS

CHECKED BY

VC

DRAWN BY

NEC

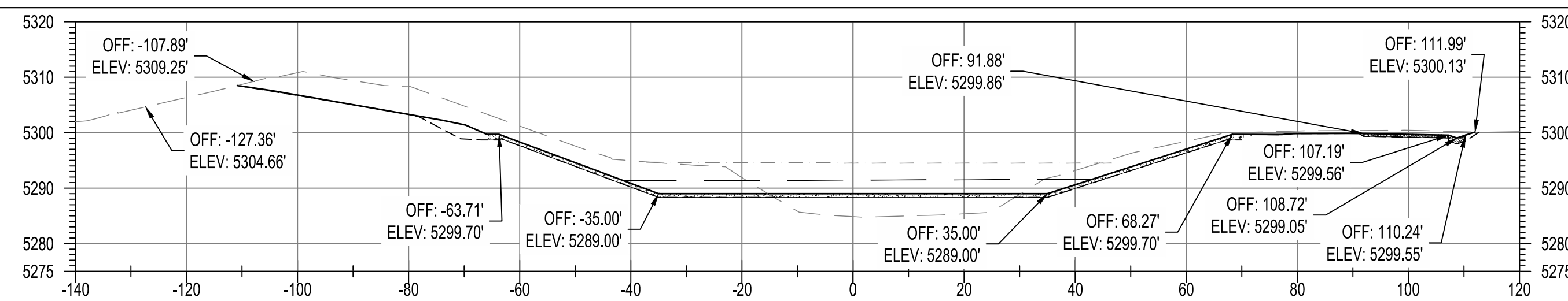
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SWINBURNE DAM GRADE CONTROL STRUCTURES
CROSS SECTIONS 1 NB0

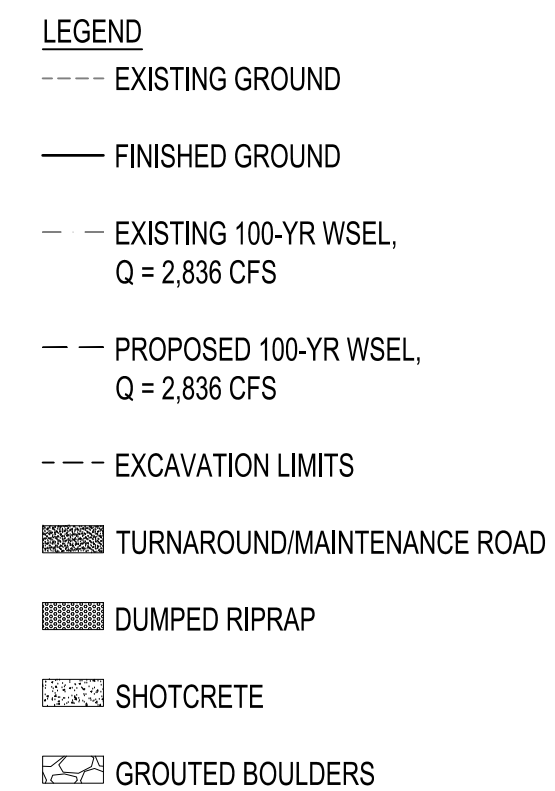
BHI PROJECT NO. 20240392

DWG NO. D-05

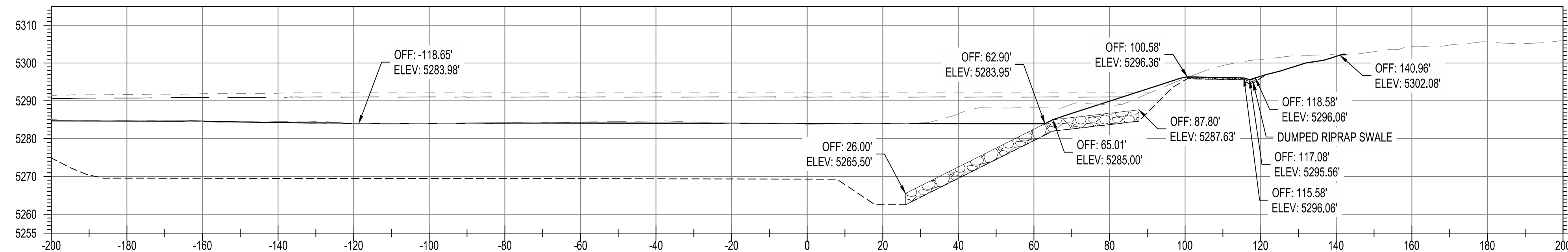
SHEET 22 OF 24



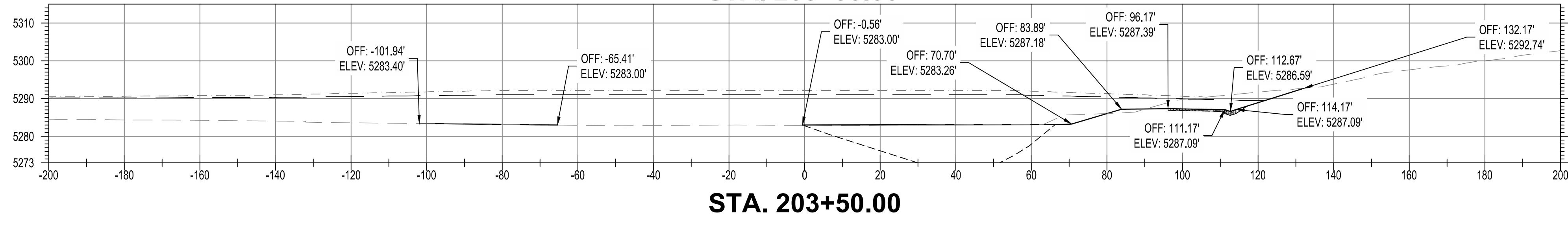
STA. 200+99.82



STA. 202+00.00



STA. 203+00.00



STA. 203+50.00

[illegible]

ENGINEER'S SEAL

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July 7, 2025

DESIGN		REVISIONS		AS-BUILT INFORMATION	
	NO.	DATE		BY	
DESIGNED BY ELA\ RGS					CONTRACTOR
					DATE
CHECKED BY AC					WORK STAINED BY
					DATE
					INSPECTOR'S ACCEPTANCE BY
					DATE
DRAWN BY NEC					FIELD VERIFICATION BY
					DATE
					DRAWINGS CORRECTED BY
					DATE

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CROSS SECTIONS 3 WB0

BHI PROJECT NO. 20240392	DWG NO. D-07	SHEET 24	OF 24
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