

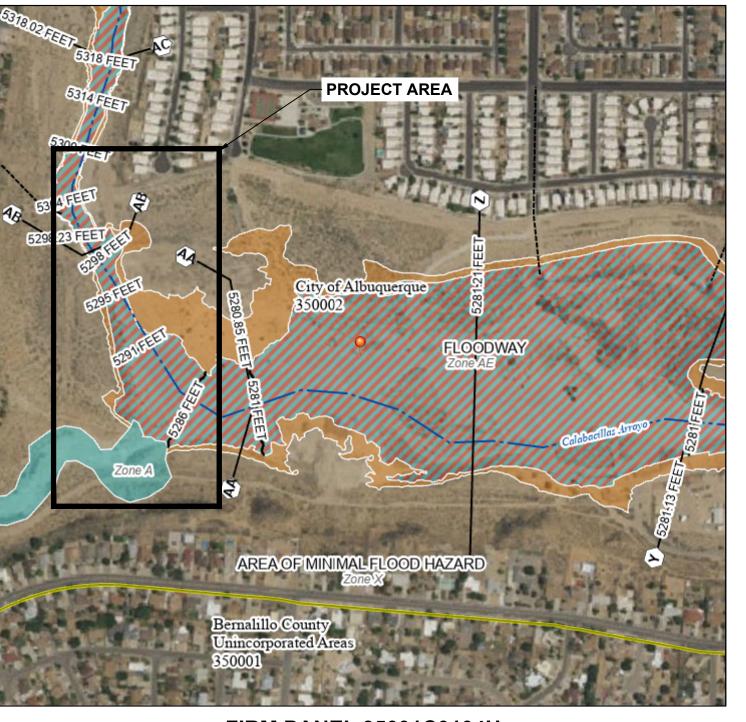
VICINITY

CONSTRUCTION PLANS FOR ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY SWINBURNE DAM GRADE CONTROL STRUCTURES

ALBUQUERQUE, NEW MEXICO

INDEX

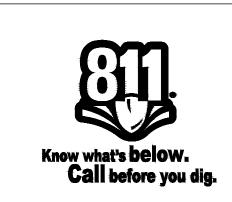
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22	D-05	CROSS SECTIONS 3 - WEST BRANCH



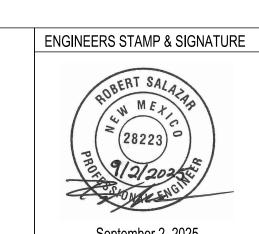
FIRM PANEL 35001C0104H Effective Date: August 16, 2012

HIDALGO MEXICO

BHI PROJECT NO.



20240392



REFERENCES:

KEVIN TROUTMAN

EXECUTIVE DIRECTOR

Bohannan Huston, Inc., Construction Plans for Calabacillas Arroyo Grade Control Structures and Bank Protection Phase 3, August 2001.

Bohannan Huston, Inc., Swinburne Dam Grade Control Structures - Design Memorandum, August 2025.

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.

DATE

APPROVED FOR BIDDING AND CONSTRUCTION



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

Tue, 2-Sep-2025 - 2:16:pm, Plotted by: RSALAZAR P:\20240392\SW\Design\plans\20240392_01_G-01_Cover Sheet.dwg

AMAFCA GENERAL NOTES:

- AMAFCA SHALL BE NOTIFIED BY EMAIL OR BY PHONE AT (505) 884-2215 AT LEAST TEN (10) DAYS PRIOR TO START OF ANY WORK IN AMAFCA ROW/EASEMENT.
- 2. AMAFCA SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY CONCRETE INSTALLATION TO ALLOW FOR INSPECTION OF THE REBAR AND SUBSURFACE PREPARATION.
- AMAFCA SHALL BE NOTIFIED BY EMAIL OR BY PHONE AT (505) 884-2215 AT LEAST TEN (10) DAYS PRIOR TO REQUEST FOR FINAL INSPECTION OF THE WORK WITHIN THE AMAFCA RIGHT-OF-WAY OR EASEMENT.
- NO WORK WILL BE PERFORMED IN THE AMAFCA ROW/EASEMENT BETWEEN MAY 15 AND OCTOBER 15 WITHOUT PRIOR WRITTEN AUTHORIZATION FROM AMAFCA.
- CERTIFIED AS-BUILT PLANS SHALL BE SUBMITTED TO AMAFCA FOR ANY CONSTRUCTION WITHIN THE AMAFCA ROW/EASEMENT.
- 6. ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH AMAFCA SUPPLEMENTAL TECHNICAL SPECIFICATION 632, AS CURRENTLY UPDATED.
- 7. ANY EXISTING SURVEY CONTROL MONUMENTS THAT ARE DISTURBED OR DAMAGED AS A RESULT OF THE CONSTRUCTION OR MAINTENANCE ACTIVITIES, SHALL BE REPLACED BY A LICENSED SURVEYOR IN NEW MEXICO AT THE CONTRACTOR'S EXPENSE. AMAFCA SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY MONUMENT PLACEMENT.
- THE CONTRACTOR SHALL MAINTAIN OR REPAIR ALL AMAFCA INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO FENCING, GATES, SIGNAGE, AND ALL OTHER FACILITIES. ALL REPAIRS WILL BE PERFORMED TO RETURN FACILITIES TO ORIGINAL OR AMAFCA-APPROVED CONDITION.
- 9. DUST SUPPRESSION SHALL BE MAINTAINED SEVEN (7) DAYS A WEEK DURING CONSTRUCTION ACTIVITY. DURING PERIODS OF CONSTRUCTION INACTIVITY, THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN DUST CONTROL MEASURES.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TRACK-OUT REDUCTION MEASURES AND CLEAN UP ANY TRACK-OUT OF MATERIAL. THE CONTRACTOR SHALL CLEAN UP ANY SOIL DEPOSITS OR SPILLS ON ALL PAVED ROADS ALONG HAUL ROUTES.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC AND PEDESTRIAN CONTROL.
- 12. AT THE END OF EACH WORKDAY AND DURING TIMES OF CONSTRUCTION INACTIVITY, THE CONTRACTOR SHALL ENSURE ALL ACCESS GATES TO THE FACILITY ARE CLOSED AND LOCKED.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRASH AND DEBRIS REMOVAL IN THE AREA OF THE CONSTRUCTION ACTIVITY. ALL GRAFFITI WILL BE REMOVED OR APPROPRIATELY COVERED UP WITHIN ONE DAY (24 HOURS).
- 14. ANY FINES IMPOSED AGAINST AMAFCA DUE TO THE CONTRACTOR'S ACTIVITIES THAT VIOLATE THE CONDITIONS OF ANY REQUIRED DUST OR STORMWATER QUALITY PERMIT SHALL BE REIMBURSED BY THE CONTRACTOR.
- 15. ANY FINES LEVIED AGAINST THE CONTRACTOR DUE TO ITS ACTIVITIES THAT VIOLATE ANY LOCAL STATUTES OR REQUIREMENTS SHALL BE PAID BY THE CONTRACTOR.
- IF AMAFCA IS FINED AS BEING THE LANDOWNER OF THE PROPERTY, DUE TO THE CONTRACTOR'S ACTIVITIES, THE CONTRACTOR SHALL REIMBURSE AMAFCA FOR ALL COSTS ASSOCIATED WITH PAYMENT OF THE FINE BY
- 17. THE CONTRACTOR SHALL REMOVE ANY CONCRETE, ASPHALT OR OTHER DEBRIS FOUND WITHIN THE CONSTRUCTION AREA AND APPROPRIATELY DISPOSE OF SAID DEBRIS AT NO COST TO AMAFCA
- 18. THE MAXIMUM WHEEL LOAD ALLOWED IN THE AMAFCA CHANNEL SHALL BE TWELVE THOUSAND (12,000)
- 19. NO TRACKED VEHICLES WILL BE ALLOWED IN AMAFCA HARD-LINED OR CONCRETE CHANNEL WITHOUT WRITTEN PERMISSION FROM AMAFCA.
- 20. CRANES OPERATING WITH OUTRIGGERS IN THE CHANNEL SHALL LIMIT THE OUTRIGGER FOOTPRINT LOAD AREA TO LESS THAN TWELVE THOUSAND (12,000) POUNDS.

CONSTRUCTION NOTES:

- 21. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- MORE THAN ONE HANDLING PRIOR TO FINAL PLACEMENT, INCLUDING STOCKPILING AND BLENDING TO MEET GRADATION REQUIREMENT OR STOCKPILING FOR LATER DISPOSAL, OF FILL MATERIALS FROM EXCAVATION OR BORROW WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR EXCAVATION, BACKFILL AND COMPACTION. NO SEPARATE PAYMENT SHALL BE MADE FOR MULTIPLE HANDLING, AND FINAL PAYMENT SHALL BE MADE ON THE BASIS OF QUANTITIES REMOVED FROM THE ORIGINAL LOCATION.
- 23. THE CONTRACTOR SHALL EXCAVATE AND FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS, WATER, SEWER AND OTHER UTILITY LINES, CABLES AND, APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION SHALL BE COORDINATED WITH THAT UTILITY, BE IT PRIVATE OR PUBLIC OWNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED
- 24. DISPOSAL OF UNSUITABLE MATERIAL AND ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE SHALL BE IN ACCORDANCE WITH LANDFILL (DISPOSAL) SITE REQUIREMENTS. COSTS ARE INCIDENTAL.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES AND OTHER IMPROVEMENTS WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- 26. SLOPE/GRADING LIMITS AND LIMITS OF EXCAVATION SHOWN ON THE PLANS DEFINE "LIMITS OF WORK" FOR THIS PROJECT. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- EXCEPT AS NOTED, CONTRACTOR SHALL KEEP ALL STAGING AREAS WITHIN THE PUBLIC RIGHT-OF-WAY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL BE ONLY WITHIN PUBLIC RIGHT-OF-WAY.
- 28. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (E.G. BARRICADING, FUGITIVE-DUST PERMIT, NPDES, FLOODPLAIN PERMIT, ETC.). COSTS ARE INCIDENTAL.
- 29. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE BEGINNING AND END OF EACH DAY.
- 31. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE, PER COA STANDARDS. AT THEIR OWN EXPENSE.
- 32. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING FENCES OR GATES DURING CONSTRUCTION. CONTRACTOR MAY INSTALL AN ACCESS GATE. ANY INSTALLED GATE MUST BE LOCKED UP AFTER HOURS AND AT ALL TIMES WHEN CONTRACTOR IS NOT ON SITE. AT PROJECT END, CONTRACTOR SHALL REPLACE FENCES EXACTLY AS THEY WERE. INSTALLATION, REMOVAL AND REPLACEMENT OF GATE AND/OR FENCING IS AT CONTRACTOR'S EXPENSE.
- 33. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- 34. ARROYO ACCESS SHALL BE MADE ONLY AT LOCATIONS APPROVED BY AMAFCA. THE CONTRACTOR SHALL OBTAIN APPROVAL 15 WORKING DAYS PRIOR TO STARTING CONSTRUCTION WITHIN THE ARROYO.
- 35. SITE CLEARING AND GRUBBING MAY BE STOCKPILED AND PLACED IN TOP ONE FOOT OF FINAL EMBANKMENT PRIOR TO RE-SEEDING. NO TRASH OR DEBRIS WILL BE ALLOWED IN EMBANKMENT AND MUST BE REMOVED FROM THE PROJECT SITE.
- 36. SUBGRADE PREPARATION FOR THE GCS BASES (NOT SLOPES) SHALL EXTEND TWO (2) FEET HORIZONTALLY BEYOND THE PERIMETER OF THE BASES.
- 37. SUBGRADE PREPARATION OF GCS SLOPES AND SLOPES FOR BANK PROTECTION SHALL CONSIST OF SCARIFYING SLOPE FACE TO A DEPTH OF 12 INCHES, MOISTURE CONDITIONING, AND COMPACTION. DEEP MOISTURE CONDITIONING IS NOT REQUIRED.
- 38. UNLESS OTHERWISE NOTED, ALL COMPACTION SHALL BE A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557 TEST METHOD. TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 METHOD OR ASTM D-6938. OBSERVATION AND FIELD TESTS SHALL BE CONDUCTED DURING FILL AND BACKFILL PLACEMENT BY THE AMAFCA'S PROJECT MANAGER TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION. IF LESS THAN 95 PERCENT RELATIVE COMPACTION IS INDICATED. ADDITIONAL COMPACTION EFFORT SHALL BE MADE WITH ADJUSTMENT OF THE MOISTURE CONTENT AS NECESSARY UNTIL 95 PERCENT COMPACTION IS OBTAINED. MOISTURE CONTENT SHALL BE AT OR UP TO 3% ABOVE OF OPTIMUM MOISTURE PER ASTM D-1557.
- 39. CONTRACTOR SHALL VERIFY ELEVATIONS OF SHOWN UTILITIES.
- 40. AT A MINIMUM ALL POINTS SHOWN WITH "AB" ARE TO BE COLLECTED AND PROVIDED ON CERTIFIED AS-BUILTS, STRUCTURES SHALL NOT BE REBURIED UNTIL ALL AS-BUILT INFORMATION HAS BEEN COLLECTED AND THE STRUCTURE HAS BEEN INSPECTED.
- 41. THE CONTRACTOR SHALL PLACE MATERIAL IN 10-FOOT MAXIMUM HEIGHT STOCKPILES. THE STOCKPILE SHALL BE SURFACE CRUSTED AS A DUST SUPPRESSION MITIGATION MEASURE.

NOTICE TO CONTRACTORS:

- 42. AMAFCA'S PM SHALL BE NOTIFIED OF ANY MATERIAL TO BE SALVAGED TO AMAFCA. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING AND UNLOADING SALVAGED MATERIAL.
- 43. CLEANING OF EXISTING SOIL CEMENT OR RIPRAP IS INCIDENTAL TO THE ITEMS FOR DUMPED RIPRAP, GROUTED BOULDER AND CONCRETE/SHOTCRETE.
- 44. SALVAGE ONLY ROCK IN ARROYO BED AND ROCK ON SLOPES WHERE IN WAY OF NEW CONSTRUCTION.
- 45. CONTRACTOR SHALL TINT SHOTCRETE SAN DIEGO BUFF.
- 46. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION. 2019 EDITION.
- 47. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- 48. THE CONTRACTOR MUST LOCATE AND PROTECT DURING CONSTRUCTION ALL AMAFCA BRASS CAPS AND OTHER SURVEY MARKERS SHOWN ON PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE, AT THEIR EXPENSE, ANY AND ALL PROPERTY CAPS DESTROYED DURING CONSTRUCTION. RELOCATION OF DISTURBED MONUMENTS SHALL BE INCIDENTAL TO THE WORK. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. CONTRACTOR SHALL, AT THEIR OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. ALL MONUMENTS AND PROPERTY CORNERS MUST BE RESET BY A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR. AMAFCA SHALL BE NOTIFIED AT LEAST TWO DAYS (48 HOURS) PRIOR TO ANY MONUMENT PLACEMENT.
- 49. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND APPURTENANCES AS REQUIRED BY THE SPECIFICATIONS FOR PREPARATION OF "AS-CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND APPURTENANCES UNTIL ALL DATA HAS BEEN RECORDED.
- 50. CONTRACTOR SHALL PLACE ELECTRONIC MARKER DEVICES (EMD) ACCORDING TO STANDARD SPECIFICATION SECTION 170 AND INSTALL TRACE WIRE PER STANDARD SPECIFICATION SECTION 901.
- 51. UNDER NO CIRCUMSTANCE SHALL SEWAGE OR SOLIDS REMOVED FROM MANHOLES BE DISCHARGED ONTO STREETS OR INTO DITCHES, CATCH BASINS, STORM DRAINS, OR SANITARY SEWER MANHOLES, CLEANOUTS, OR DUMPS.
- 52. IF SEWAGE SPILLS ONTO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL WASH DOWN, CLEAN UP, AND DISINFECT THE SPILLAGE AT ITS OWN EXPENSE TO THE SATISFACTION OF THE PROPERTY OWNER. WITHIN 12 HOURS OF THE INCIDENT, THE CONTRACTOR SHALL FILE AN SSO REPORT (SUPPLEMENTAL SPECIFICATION SPECIAL CONDITIONS) AND REPORT THE INCIDENT TO THE COLLECTION SYSTEM MANAGER (228-7428). CLEANUP OF SEWAGE SPILLS AND NOTIFICATION SHALL BE INCIDENTAL TO CONTRACT.
- 53. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST CONTACT THE PNM MANAGER OF SYSTEM RELIABILITY AT 505-241-3458.
- 54. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST CONTACT ABCWUA BY CALLING LUIS ORDONEZ-OLIVAS AT 505-289-3216.

EASEMENT LINE NEW MAJOR CONTOUR **NEW MINOR CONTOUR** EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR STAGING/LAYDOWN AREA ··························· STOCKPILE LOCATION —— EXCAVATION PAY LIMITS EXISTING SANITARY SEWER LINE EXISTING SANITARY SEWER MANHOLE EXISTING STORM DRAIN LINE **ENGINEER'S SEAL** EXISTING WATER LINE SUE ONE SHOTCRETE

LEGEND

PROPERTY LINE

GROUTED BOULDER

BURIED SHOTCRETE

BASE COURSE

DUMPED RIPRAP

AND SALVAGED

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20240392

BHI PROJECT NO.

PROTECT IN PLACE

BURIED GROUTED BOULDER

EXISTING STRUCTURE REMOVAL

EXISTING RIPRAP TO BE REMOVED

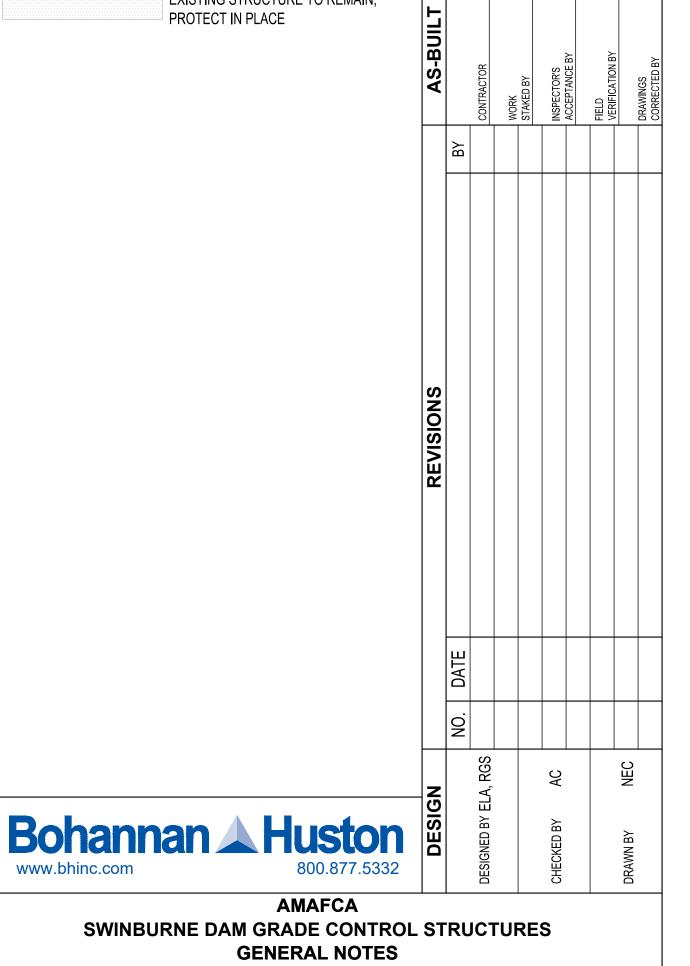
EXISTING STRUCTURE TO REMAIN

AMAFCA

GENERAL NOTES

DWG NO.

G-02



22

(28223)

September 2, 2025

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Bohannan A Huston

Introduction

This control was established for the purpose of providing construction control for the Swinburn Dam Topo Project. Monuments were established with an OPUS observation initialized through the NGS Control Network. Additional control monuments were established with Dual RTK observations and cross checked. Datasheets provide the specific metadata for each monument established.

Project Control Process Flowchart:

See attachment

Project Control Specifications:

Units:	US Survey Foot
Horizontal Datum:	NAD_83(2011)(EPOCH:2010.0000)
Vertical Datum:	NAVD88
Geoid Model:	GEOID18
Projection:	Transverse Mercator
State Plane and/or	New Mexico Central Zone (3002)
UTM Zone:	146W MEXICO GENTRAL ZONE (3002)
Basis of Bearing:	Grid Bearings
Project Combined	0.9996720977 based on project BH 20150144
Factor:	0.9990720977 based on project bit 20130144
Modification Method	Scaled State Plane coordinates about origin (0,0) no truncation
Used:	Coaled State Flame Coordinates about origin (0,0) no truncation
Field Methodology:	OPUS & RTK Solution
Equipment Used:	Trimble GPS Equipment
Control Set Date:	August 20, 2014 & February 13, 2024
Observation Date:	August 20, 2014 & February 13, 2024
Adjustment/	Fohruary 7, 2025
Publication Date:	February 7, 2025

I, Barry S. Phillips, New Mexico Professional Surveyor No. 15517, do hereby certify that this Control Survey Report was prepared by me or under my direct supervision based on an actual survey on the ground as described herein; that I am responsible for this survey; and that the survey and report meets the minimum standards for surveying in New Mexico as defined by NMAC 12.8.2.7.B(9) – Control Surveying

Barry S. Phillips, PS
For and on Behalf of
Bohannan Huston, Inc.
Courtyard I / 7500 Jefferson St. NE
Albuquerque, NM 87109-4335
(505).823.1000

Bohannan A Huston

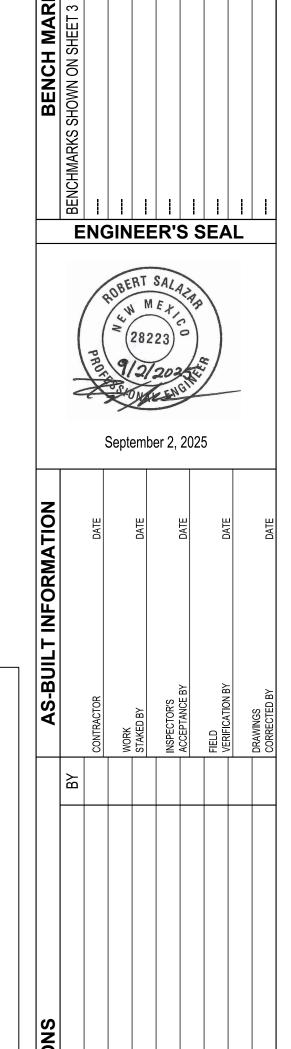
Adjusted Coordinate Listing: See Attached Control Datasheets

POINT	LATITUDE	LONGITUDE	ELLIPSOID (US FT)	ORTHOMETRIC HEIGHT	MODIFIED NORTHING	MODIFIED EASTING	DESCRIPTION
BH 15-144-03	N 35° 13' 03.90524"	W 106° 42' 45.34834"	5386.716	5456.786	1535368.324	1502742.450	2" ALUMINUM CAP
BH 24-392-01	N 35° 12' 32.21550"	W 106° 42' 38.33627"	5253.662	5323.706	1532160.755	1503309.549	2" ALUMINUM CAP
BH 24-392-420	N 35° 12' 18.78685"	W 106° 42' 46.46869"	5241.783	5311.958	1530805.819	1502628.210	AERIAL CONCRETE MONUMENT

Geospatial Positional Accuracy Report:

POINT	HORIZONTAL POSITIONAL ACCURACY	VERTICAL POSITIONAL ACCURACY
BH 15-144-03	0.0854	0.1177
BH 24-392-01	0.0186	0.1837
BH 24-392-420	0.0140	0.0210

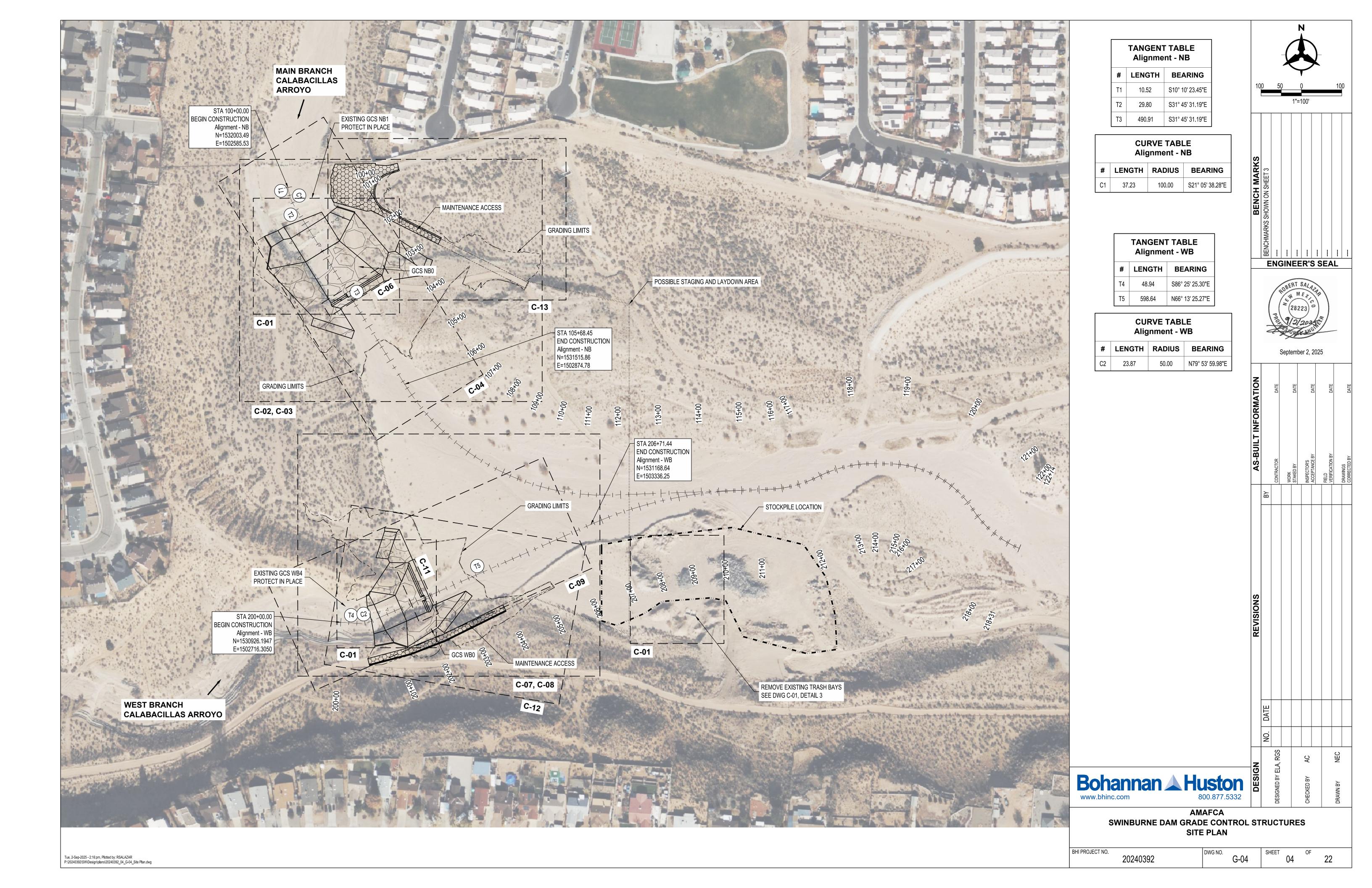
Control Datasheets



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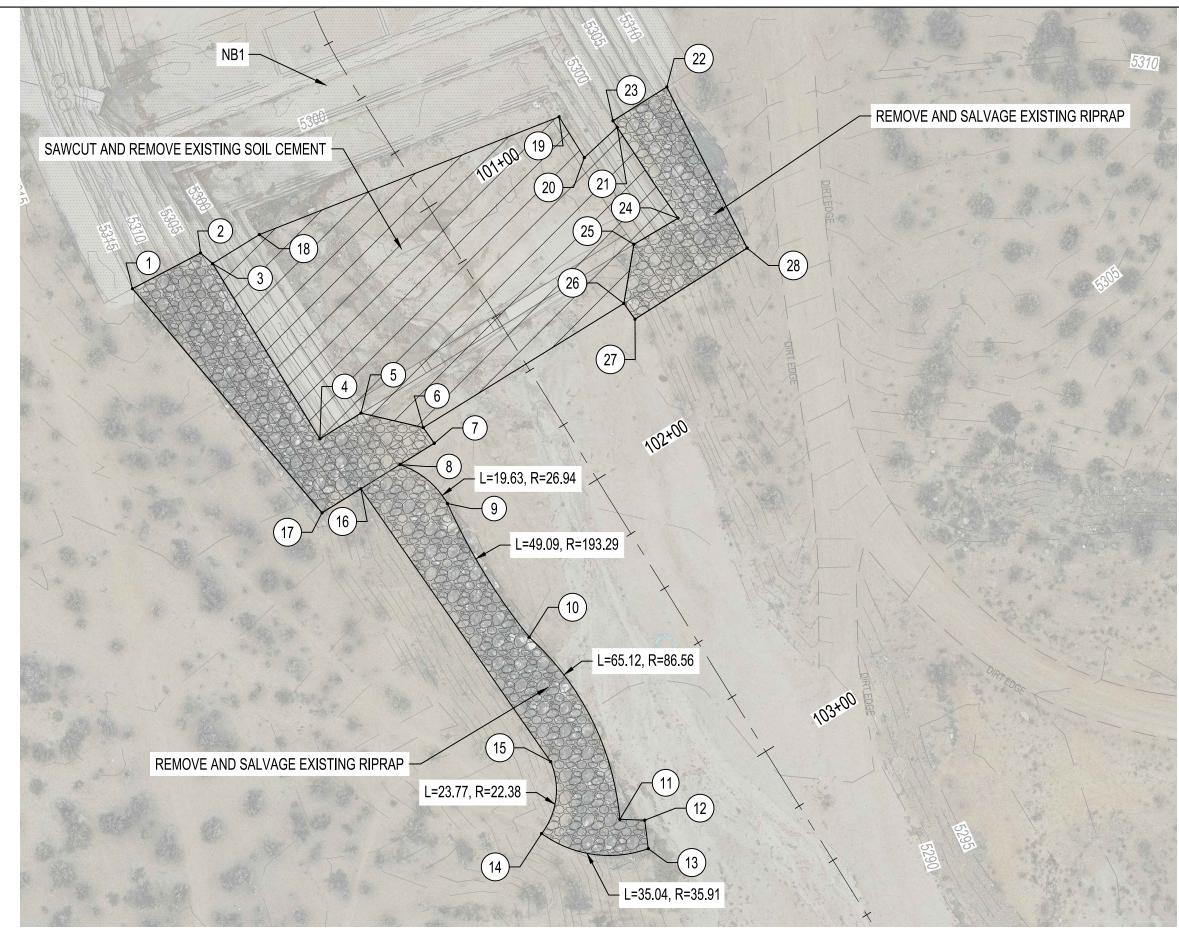
AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
SURVEY CONTROL

BHI PROJECT NO. 20240392 DWG NO. G-03 SHEET 03 22



NB1 REMOVALS				
ID	NORTHING	EASTING		
1	1531888.75	1502535.63		
2	1531899.90	1502556.89		
3	1531896.58	1502560.64		
4	1531841.78	1502594.18		
5	1531849.87	1502607.03		
6	1531845.34	1502626.47		
7	1531840.43	1502629.94		
8	1531833.76	1502619.18		
9	1531821.63	1502634.07		
10	1531779.85	1502659.60		
11	1531722.92	1502687.93		
12	1531722.64	1502695.71		
13	1531713.76	1502696.82		
14	1531718.48	1502663.48		
15	1531740.97	1502666.26		
16	1531826.22	1502607.01		
17	1531818.69	1502594.86		
18	1531905.65	1502575.27		
19	1531942.45	1502668.93		
20	1531929.70	1502676.83		

ID	NORTHING	EASTING
21	1531939.20	1502687.11
22	1531951.76	1502702.61
23	1531941.22	1502685.79
24	1531910.78	1502706.10
25	1531902.60	1502692.29
26	1531884.12	1502689.19
27	1531879.21	1502692.66
28	1531901.43	1502727.71



EXISTING MAIN BRANCH GCS NB1 REMOVALS SCALE: NOT TO SCALE

ID NORTHING

	WB4 REMO	VALS
ID	NORTHING	EASTING
29	1530900.48	1502794.45
30	1530897.07	1502797.63
31	1530873.49	1502800.31
32	1530906.84	1502852.75
33	1530908.87	1502855.30
34	1530919.12	1502872.91
35	1530933.78	1502919.48
36	1530959.98	1502919.43
37	1530945.05	1502866.31
38	1530937.51	1502852.61
39	1530931.96	1502843.09
40	1530915.69	1502811.40
41	1530961.71	1502780.24
42	1530956.64	1502801.32
43	1530958.11	1502807.21
44	1530976.56	1502802.67
45	1530983.81	1502833.79
46	1531064.34	1502836.12
47	1531075.95	1502807.86
48	1531101.17	1502782.16

50 51	REMOVE AN	ID SALVAGE EXISTING RIPRAP
L=24.20, R=28.26 52 L=12.70, R=12.21	93, R=46.59 33, R=46.59	
5310 5305 5300 58 5295	45	Detata (36) L=55.54, R=139.64
000+00Z WB4 41 29	40 (z=35.66, R=244, 1) (39) (39) (30) (31) (31)	34 34 34 34
5295 30	1 = 62.81, R=119.03	REMOVE AND SALVAGE EXISTING RIPRAP

EXISTING WEST BRANCH GCS WB4 REMOVALS

SCALE: NOT TO SCALE

TI	RASH BAY RE	MOVALS
١	NORTHING	EASTING
	1530960.68	1503574.13
0	1530947.38	1503570.43
51	1530939.63	1503597.57
62	1530952.92	1503601.08

EXISTING TRASH BAY REMOVALS SCALE: NOT TO SCALE

GENERAL NOTES

- 1. ALL AREAS ARE TO BE RESTORED TO EXISTING UNLESS OTHERWISE NOTED BY THE GRADING LIMITS.
- 2. ALL DISTURBED SOILS ARE TO BE RE-SEEDED TO GRADING AND/OR EXCAVATION LIMITS WITH
- HYDROMULCH UNLESS IN BOTTOM OF CHANNEL. EXCESS MATERIAL SHALL BE STOCKPILED AT THE LOCATION SHOWN ON DWG G-04 AS DIRECTED BY THE PM
- OR OWNER. 4. BACKFILL IN CHANNEL BOTTOM AND DAM POOL SHALL NOT BE COMPACTED.

LEGEND

PROPERTY LINE EASEMENT LINE

NEW MINOR CONTOUR

- NEW MAJOR CONTOUR

ENGINEER'S SEAL

September 2, 2025

22

- EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR

STAGING/LAYDOWN AREA

STOCKPILE LOCATION

—— - - - — GRADING LIMITS

—— EXCAVATION PAY LIMITS

EXISTING SANITARY SEWER LINE

------ FUTURE MAINTENANCE RAMP

EXISTING SANITARY SEWER MANHOLE

EXISTING STORM DRAIN LINE

EXISTING WATER LINE SUE ONE

SHOTCRETE

GROUTED BOULDER

BURIED SHOTCRETE

BURIED GROUTED BOULDER

DUMPED RIPRAP

BASE COURSE

EXISTING STRUCTURE REMOVAL

EXISTING RIPRAP TO BE REMOVED

EXISTING RIPRAP AND SALVAGED

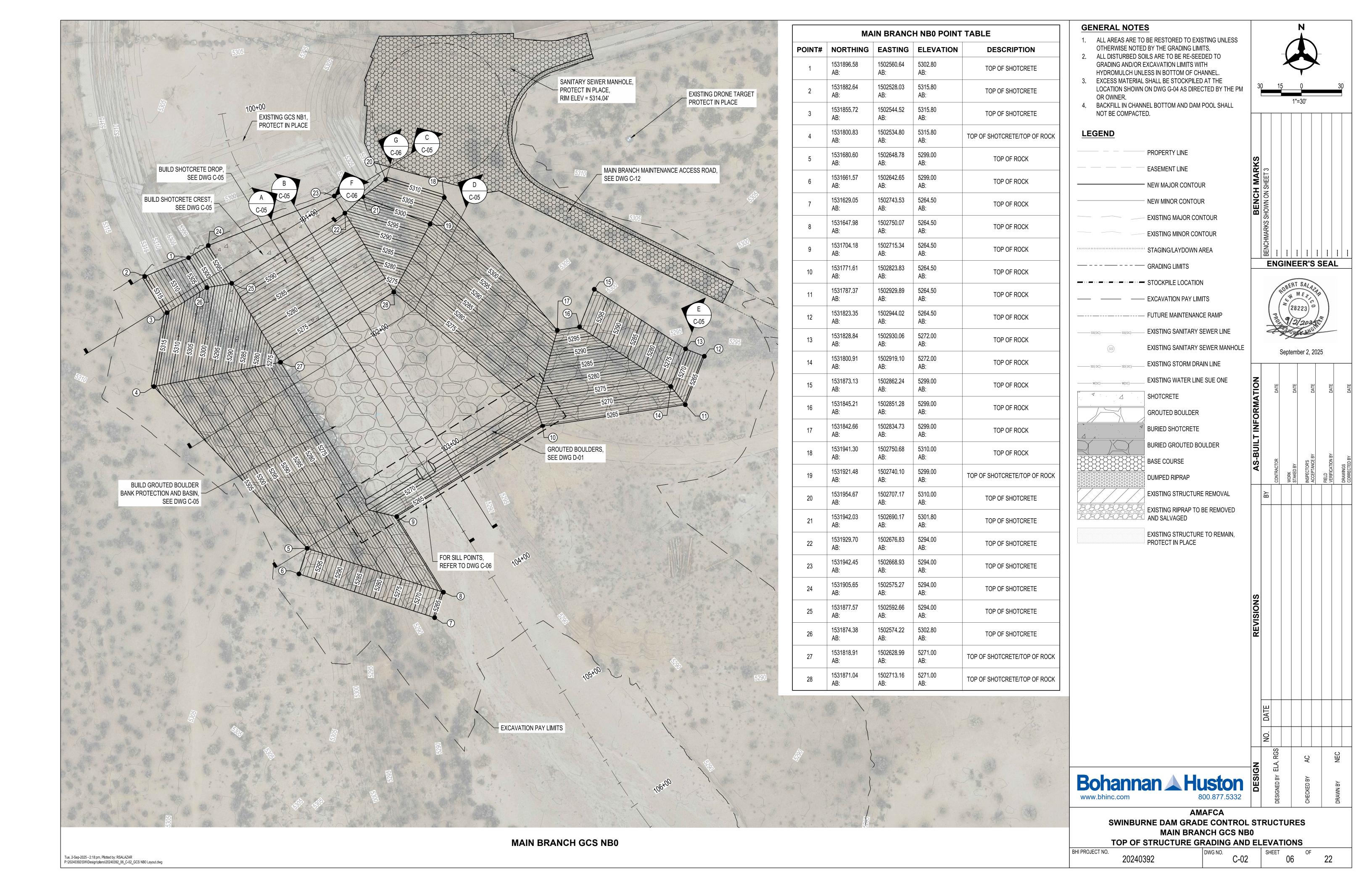
EXISTING STRUCTURE TO REMAIN, PROTECT IN PLACE

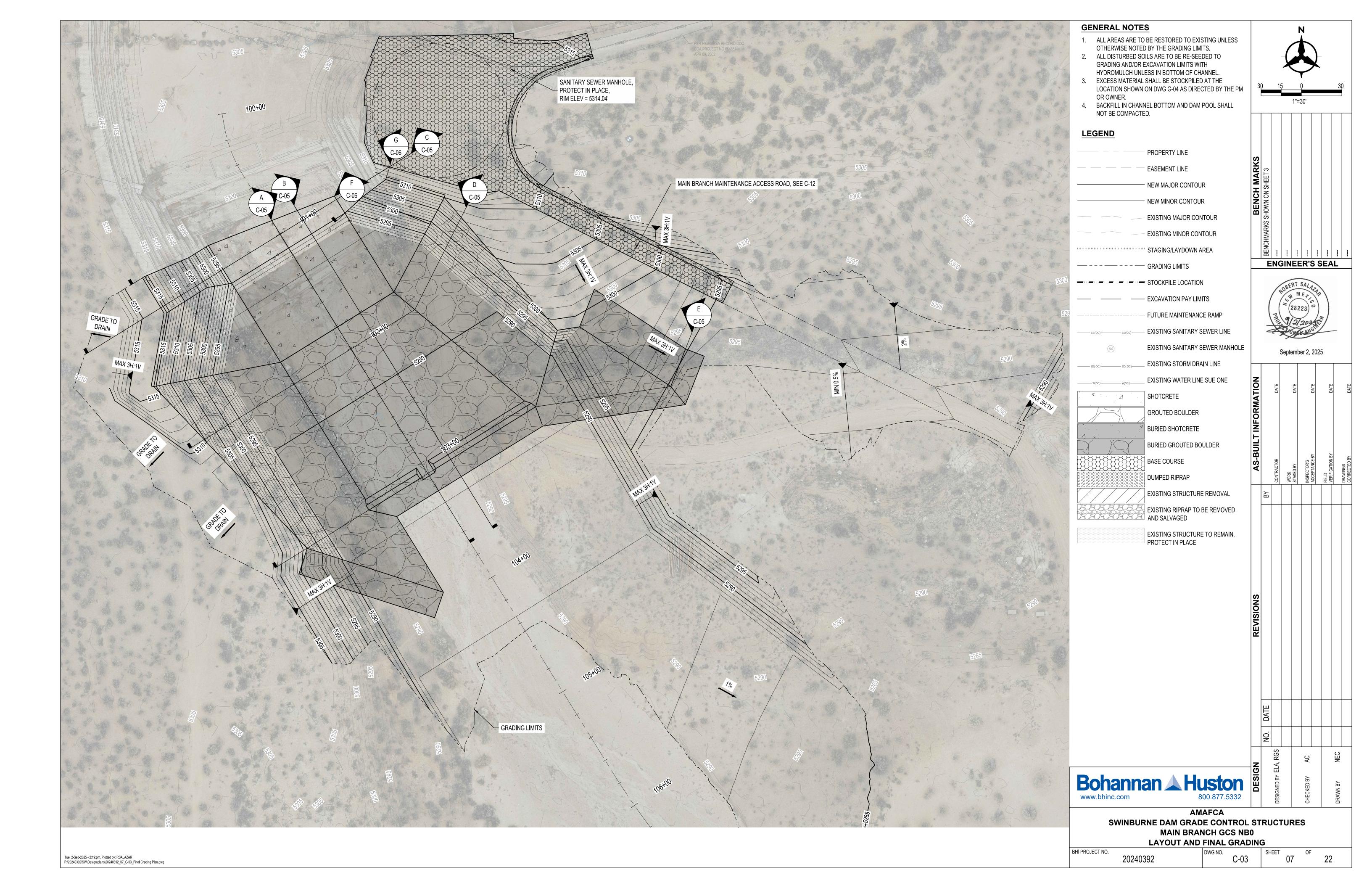
Bohannan A Huston www.bhinc.com

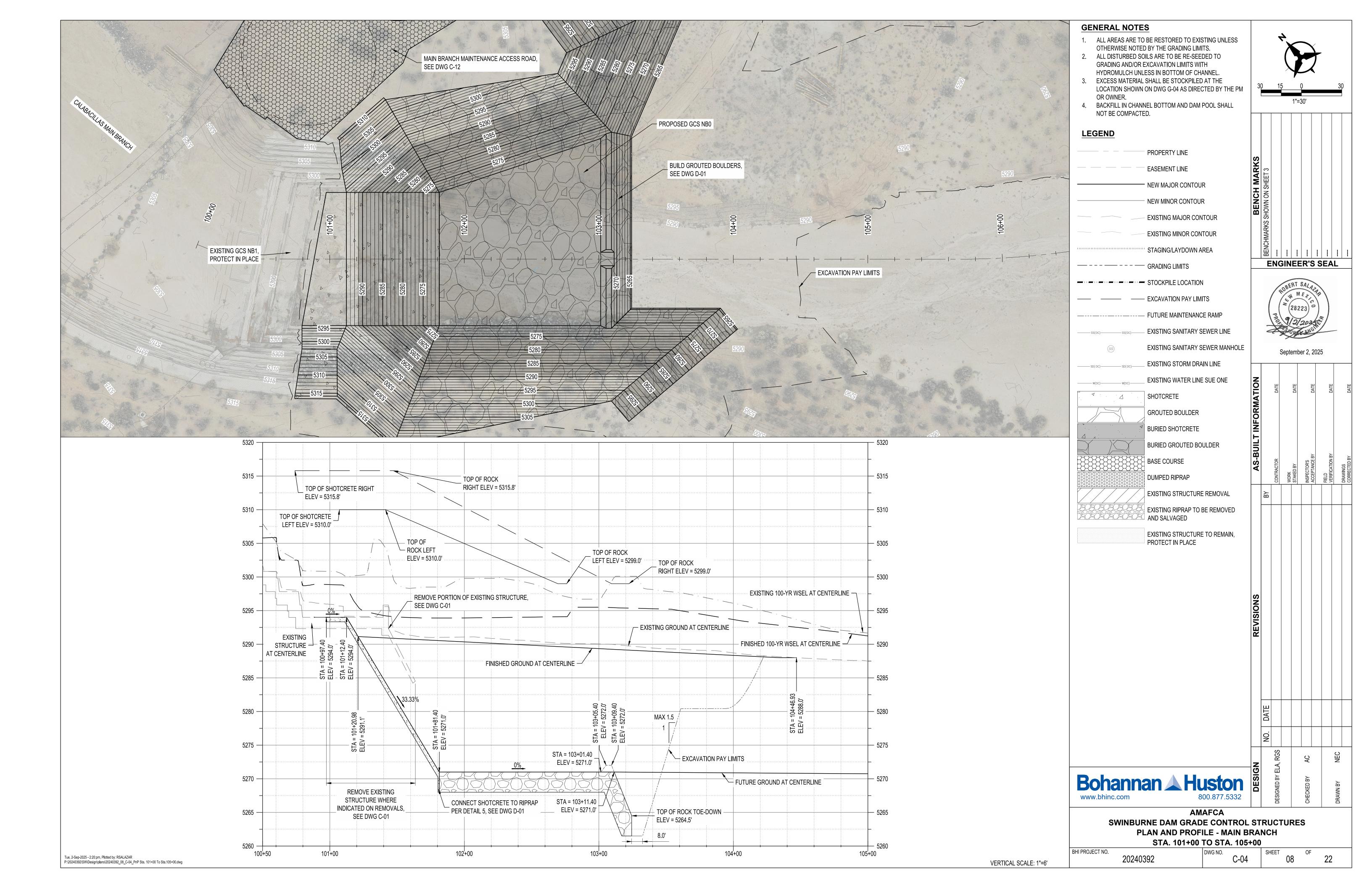
> **AMAFCA** SWINBURNE DAM GRADE CONTROL STRUCTURES **REMOVAL PLAN**

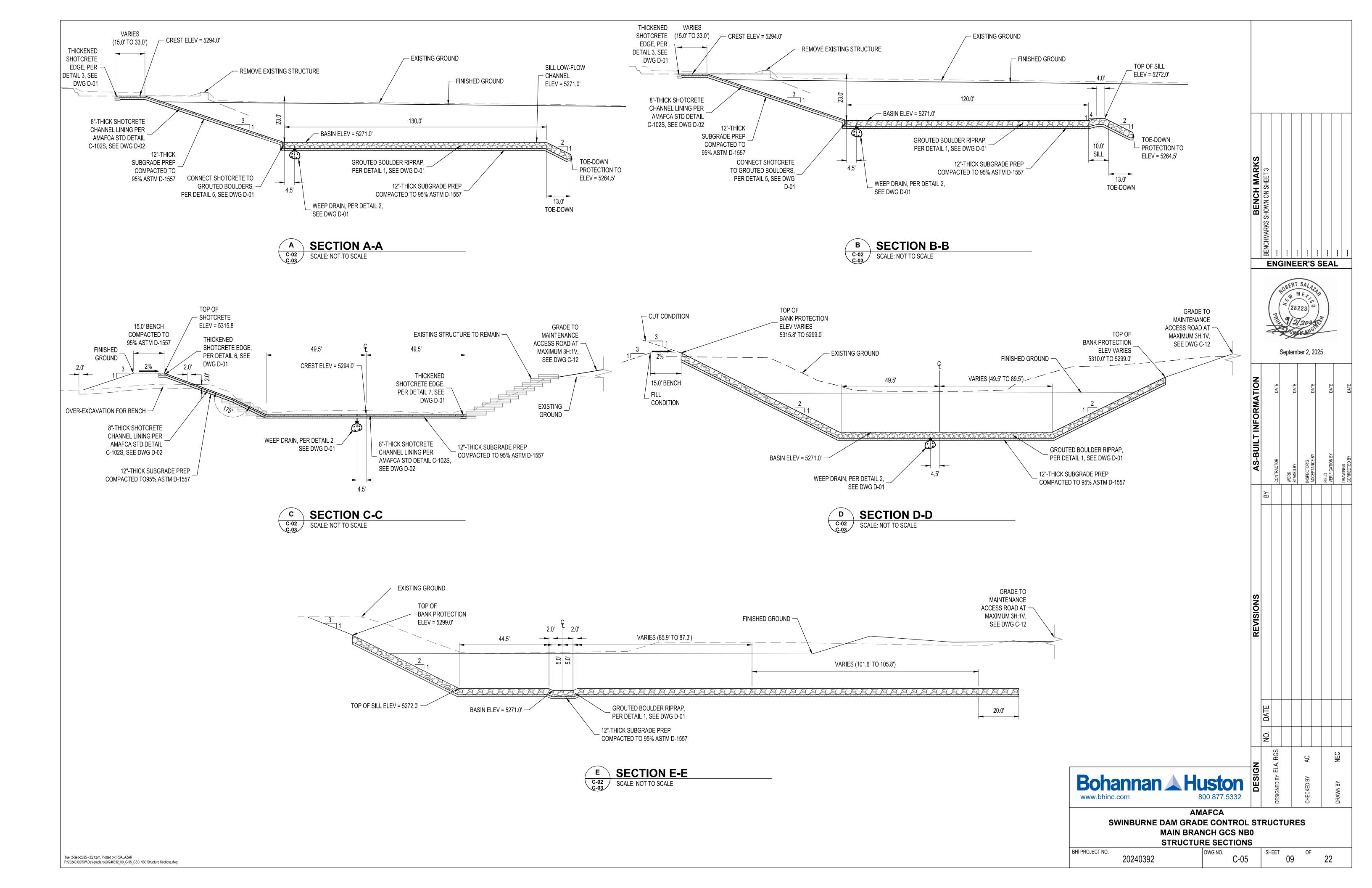
BHI PROJECT NO. DWG NO. 05 20240392

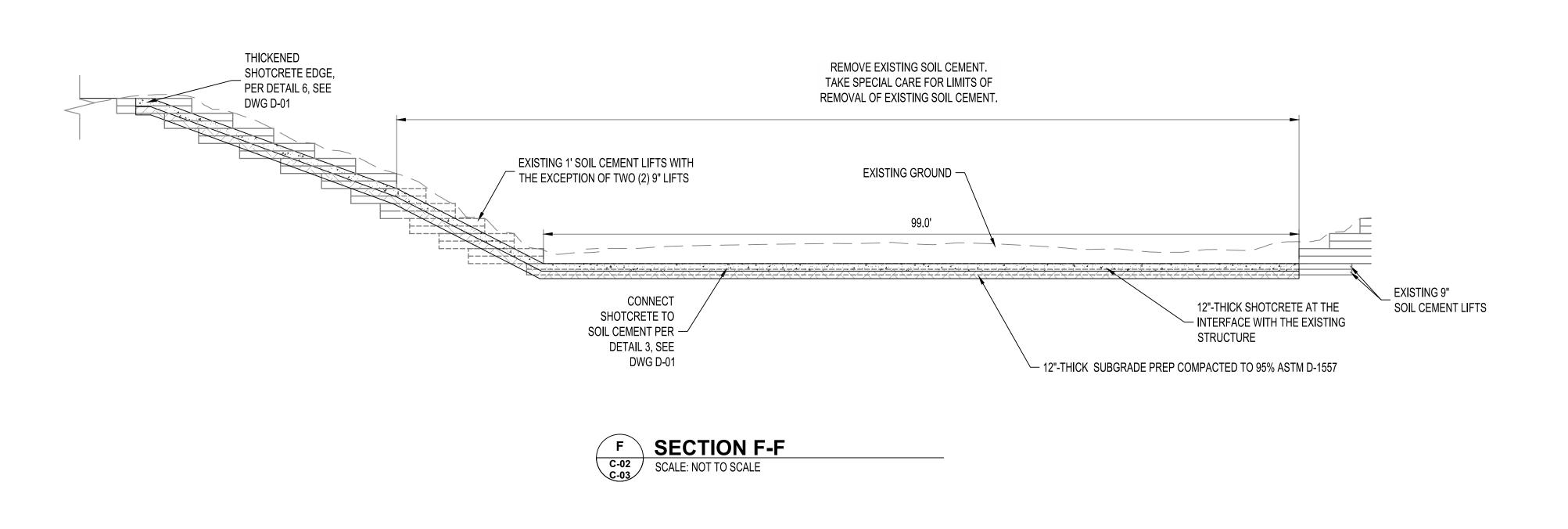
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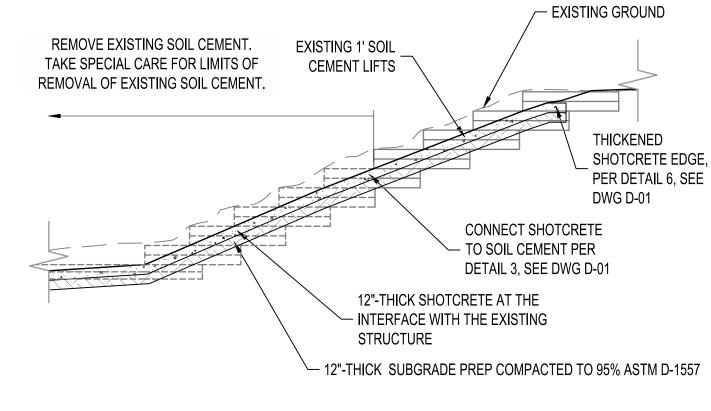






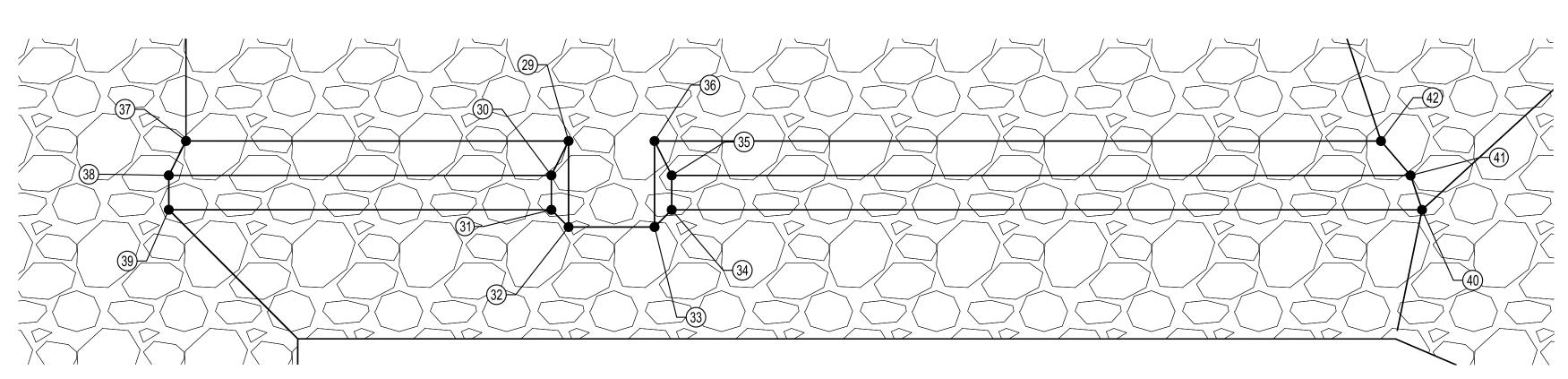






SECTION G-G
SCALE: NOT TO SCALE

	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
MAIN BRANCH

Bohannan A Huston
800.877.5332

AMAFCA
SWINBURNE DAM GRADE CONTROL STRUCTURES
MAIN BRANCH GCS NB0
STRUCTURE SECTIONS

BHI PROJECT NO.

20240392

DWG NO.

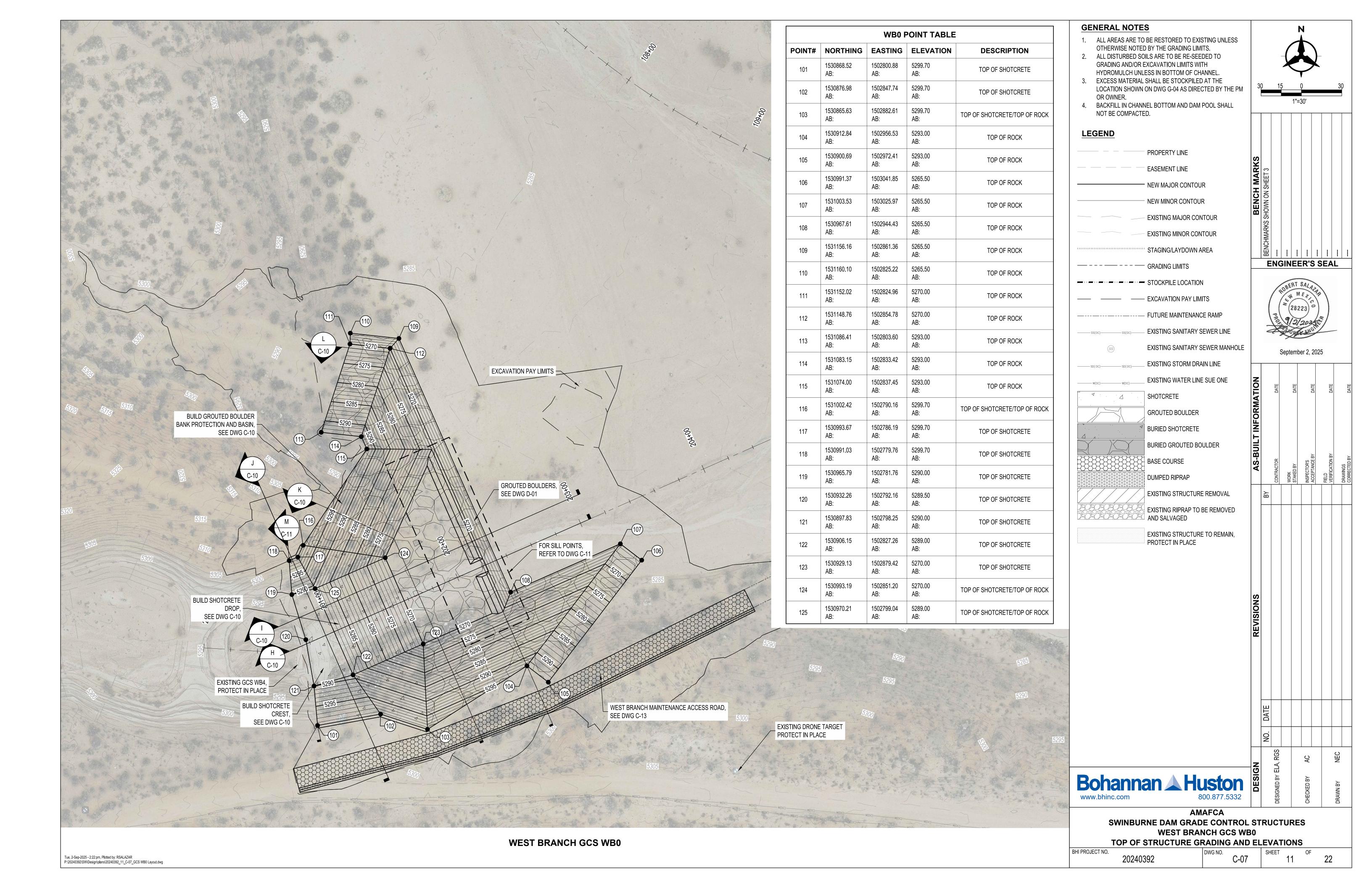
C-06

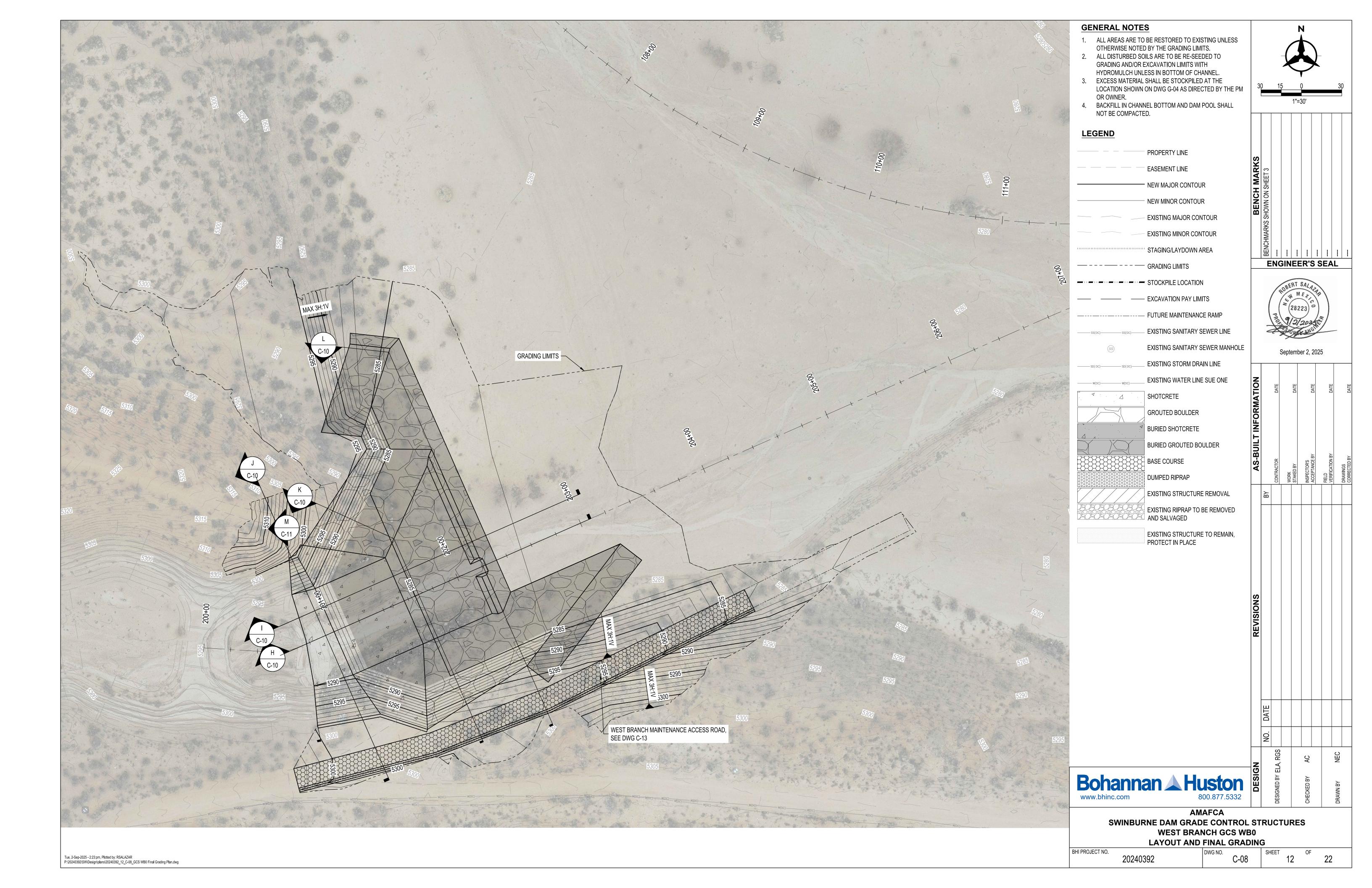
SHEET OF 22

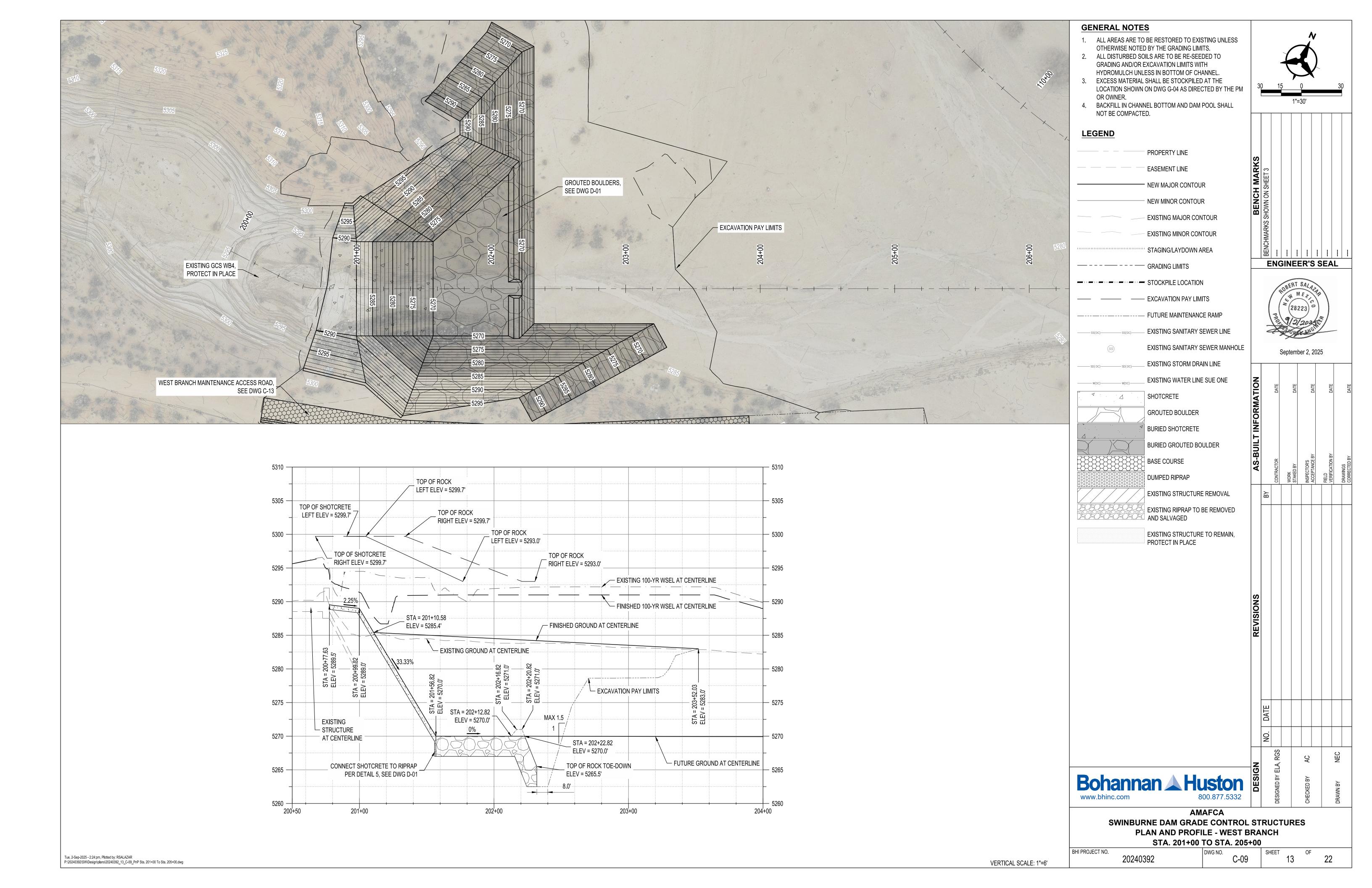
ENGINEER'S SEAL

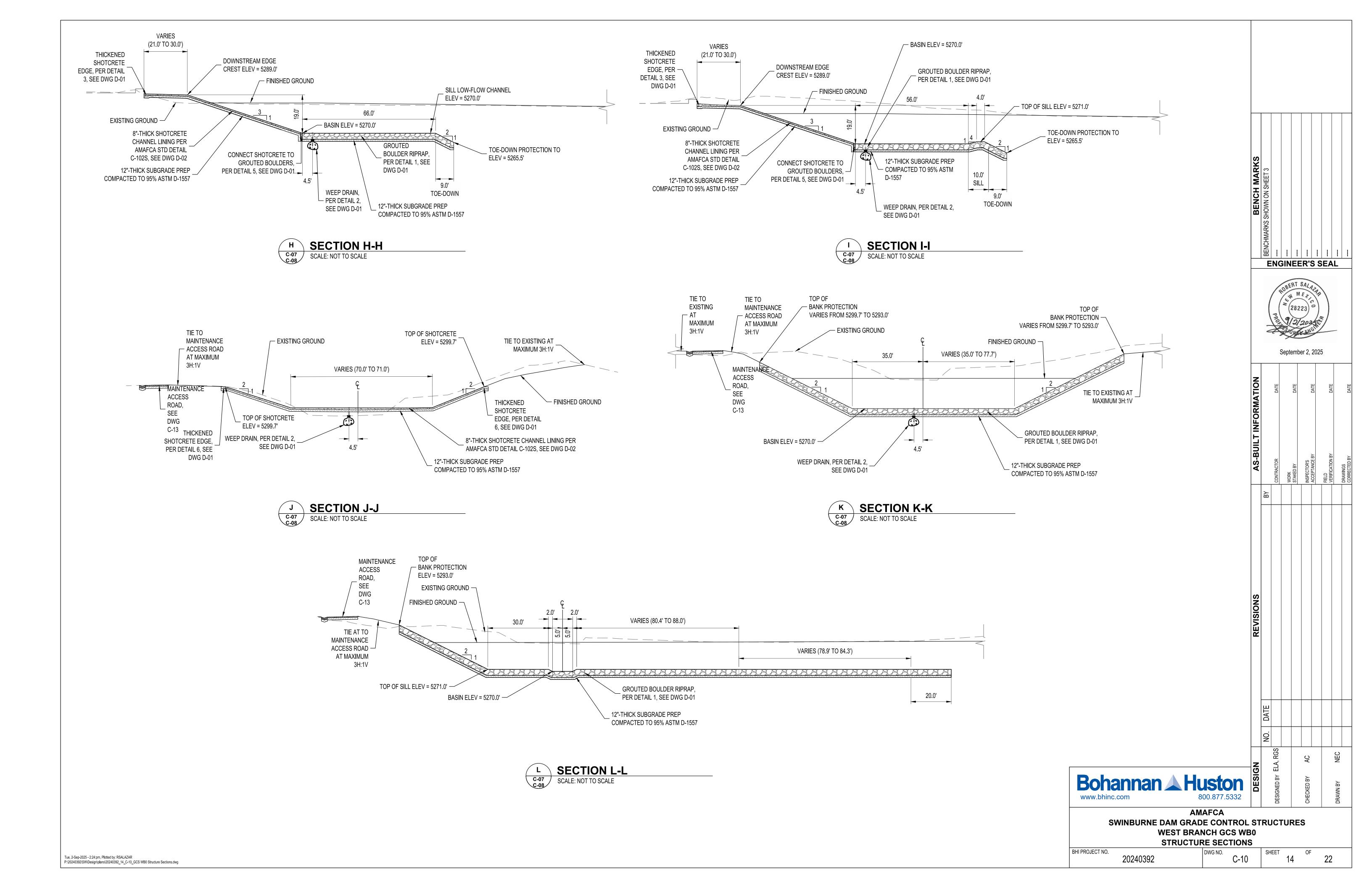
September 2, 2025

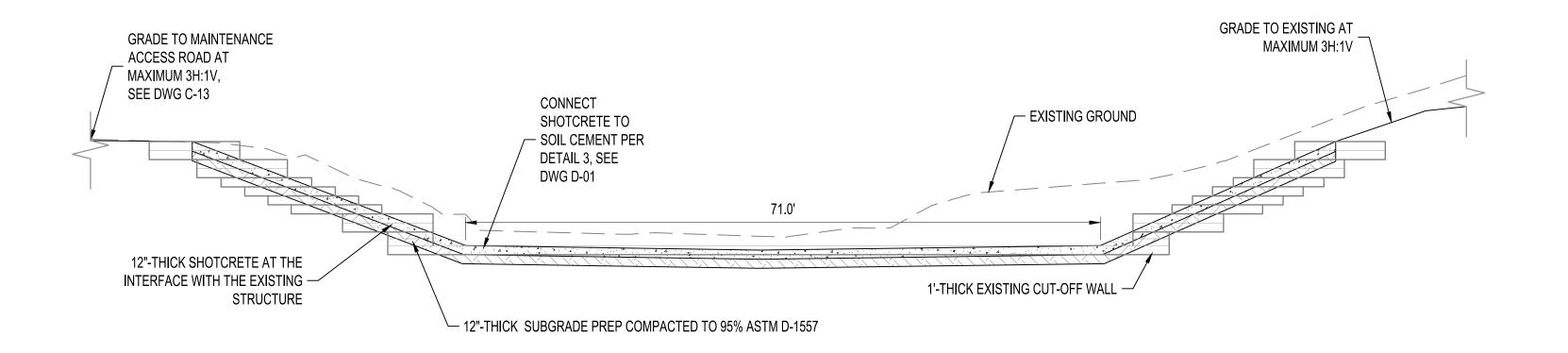
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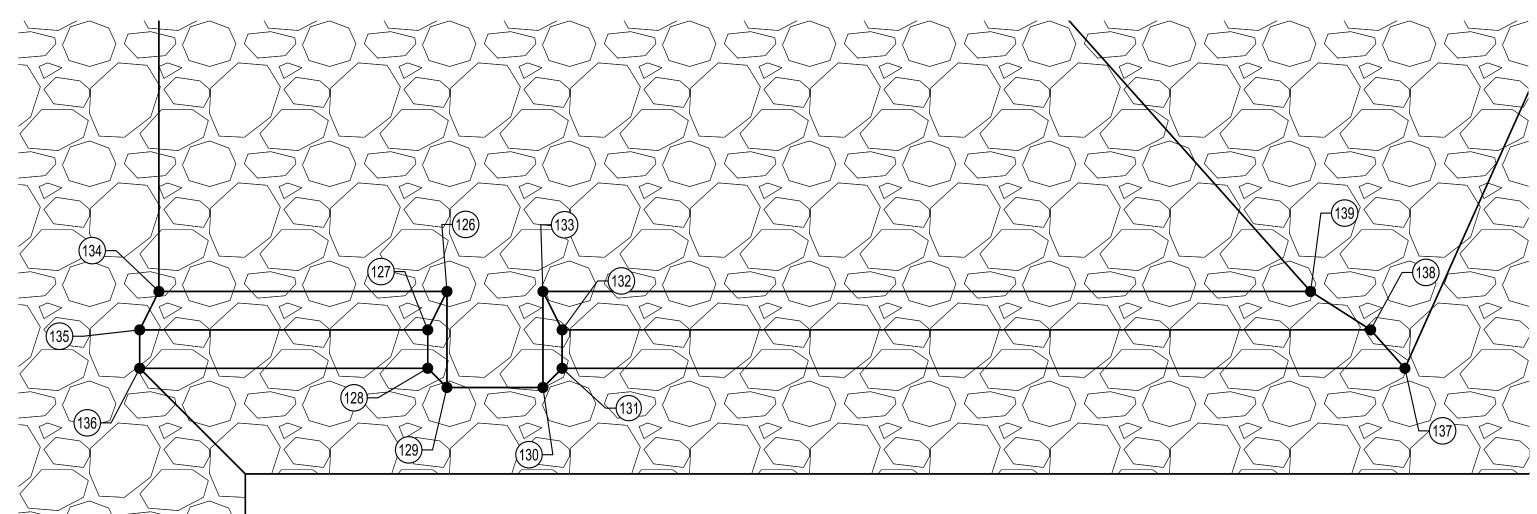






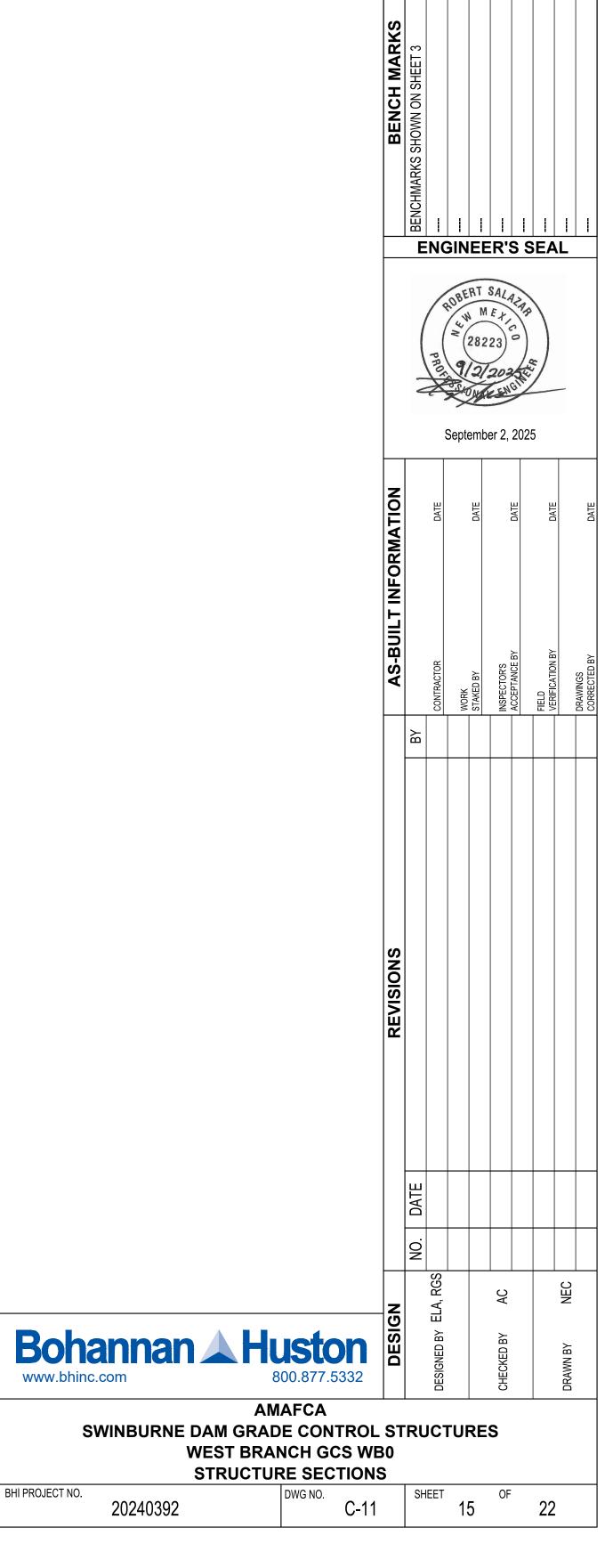






WB0 SILL POINTS
WEST BRANCH

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

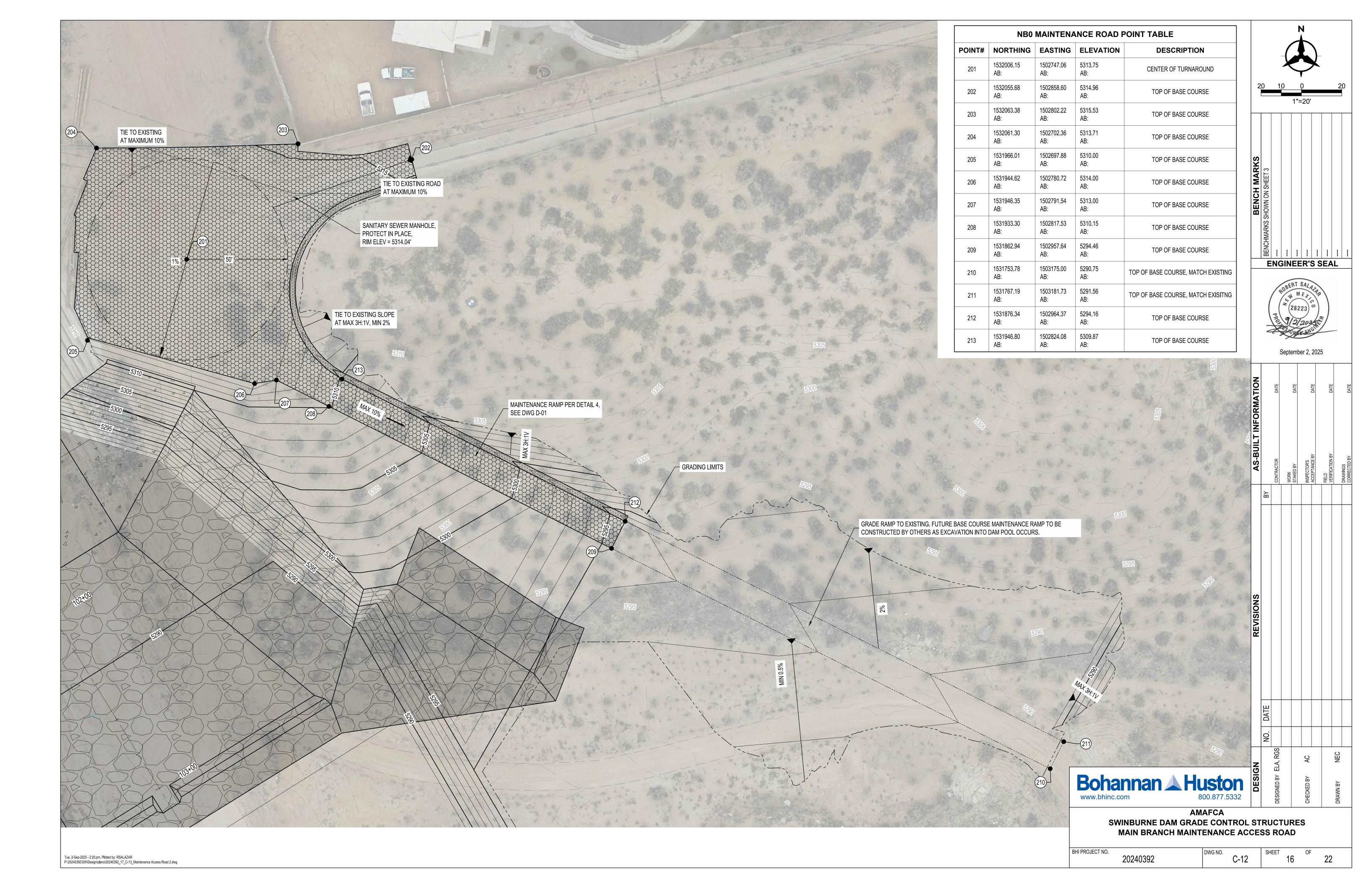


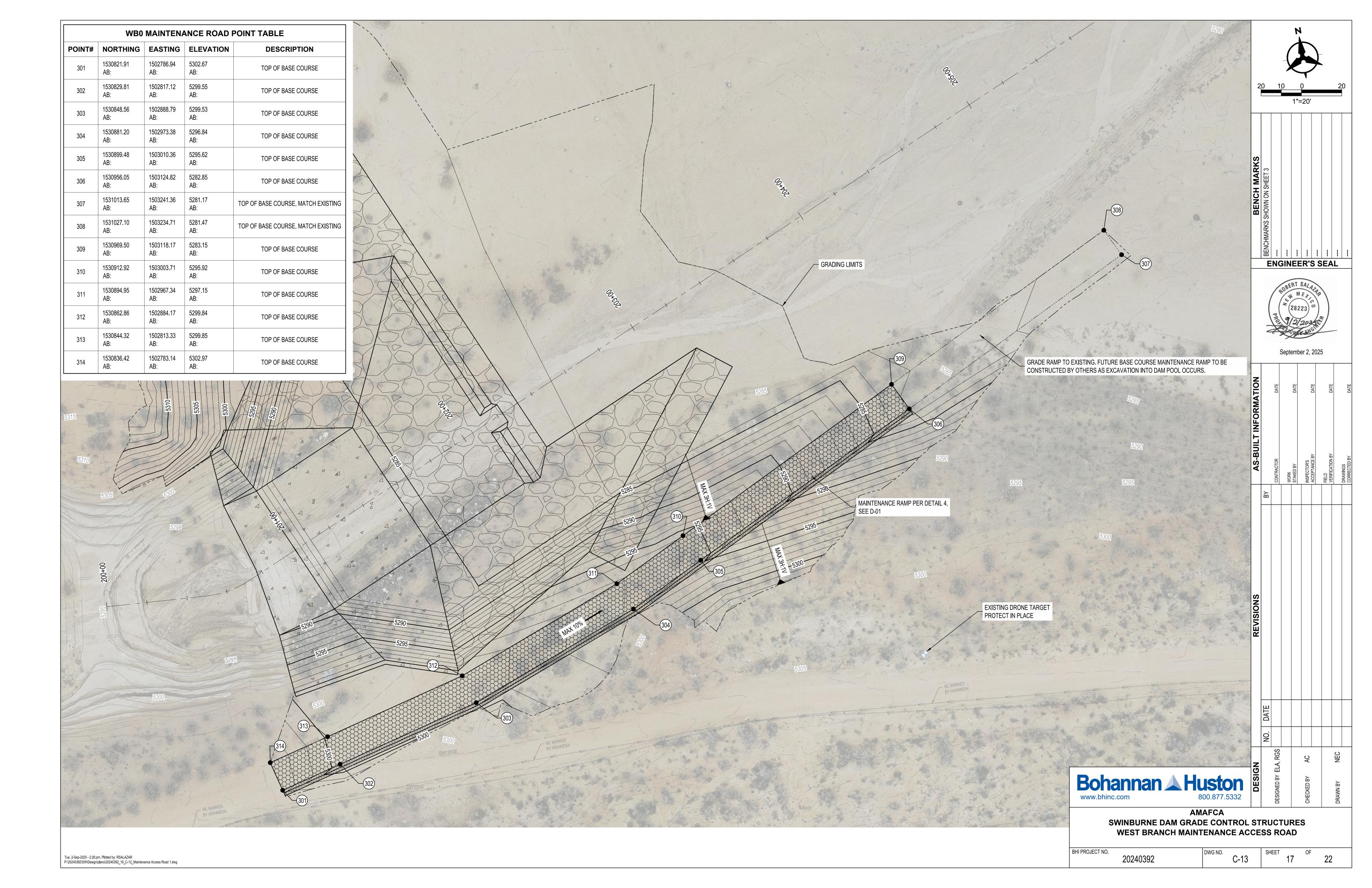
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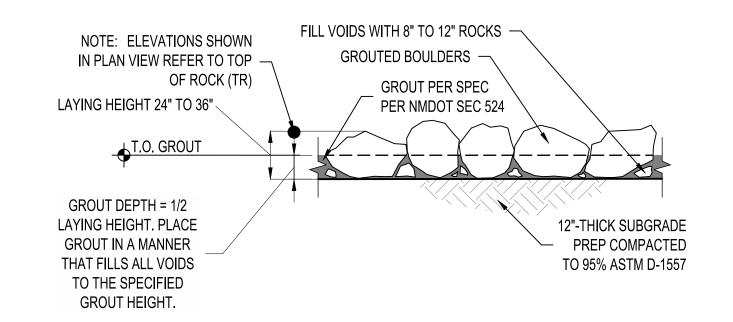
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BHI PROJECT NO.

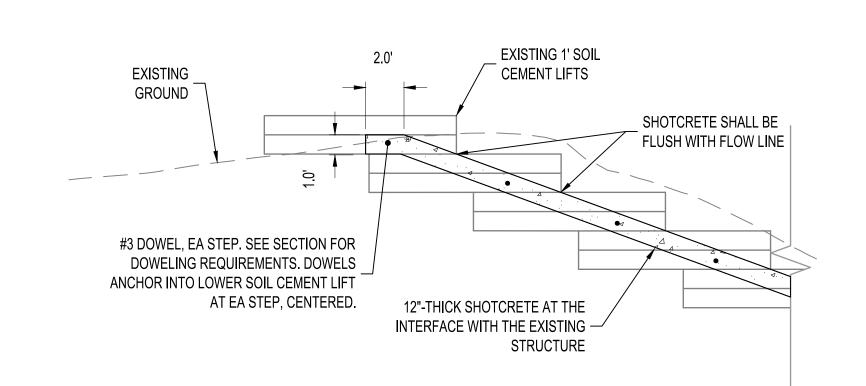
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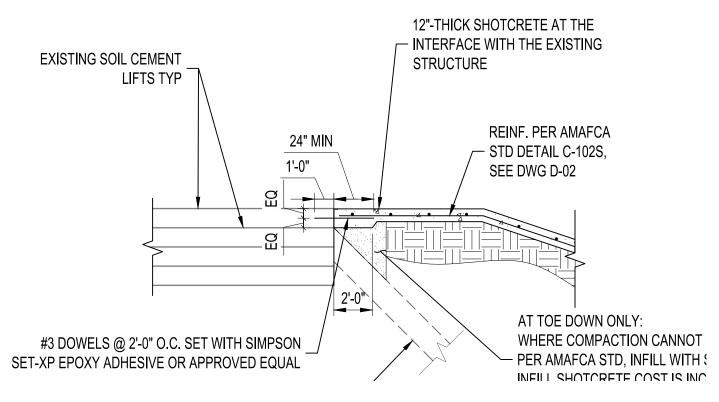




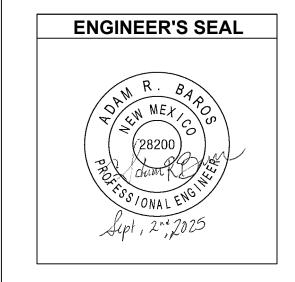


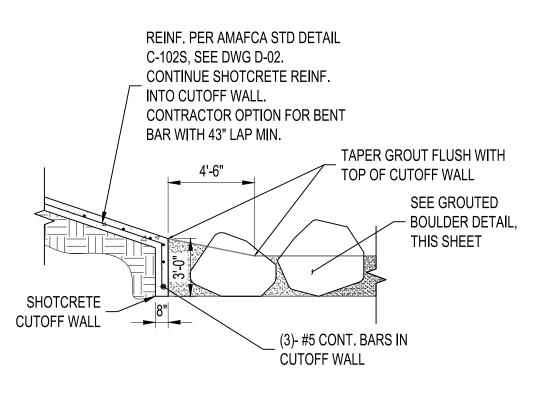
1 GROUTED BOULDER SCALE: NOT TO SCALE



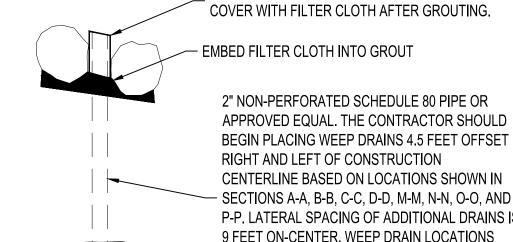


3 SHOTCRETE TO EXISITNG SOIL CEMENT CONNECTION SCALE: NOT TO SCALE





5 SCALE: NOT TO SCALE



RIGHT AND LEFT OF CONSTRUCTION
CENTERLINE BASED ON LOCATIONS SHOWN IN
SECTIONS A-A, B-B, C-C, D-D, M-M, N-N, O-O, AND
P-P. LATERAL SPACING OF ADDITIONAL DRAINS IS
9 FEET ON-CENTER. WEEP DRAIN LOCATIONS
ARE TO BE CONFINED WITHIN EXTENTS OF
GRADE CONTROL STRUCTURE AND MAY BE
ADJUSTED DUE TO BOULDER LOCATION.

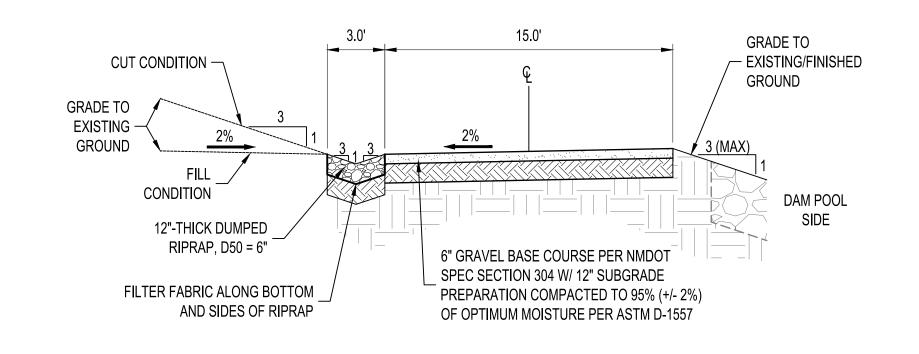
SAND BAG FILLED WITH 3/4" GRAVEL (INCIDENTAL

CUT PIPE FLUSH WITH TOP OF BOULDERS AND

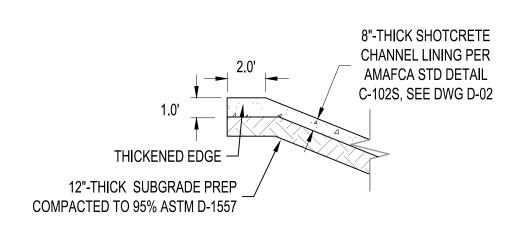
TO WEEP DRAIN). FILTER CLOTH (INCIDENTAL TO WEEP DRAIN) PLACED AROUND SAND BAG.

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

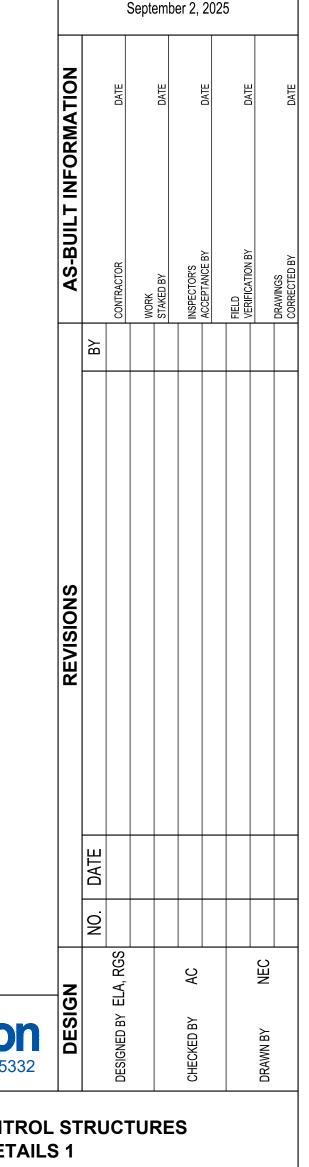












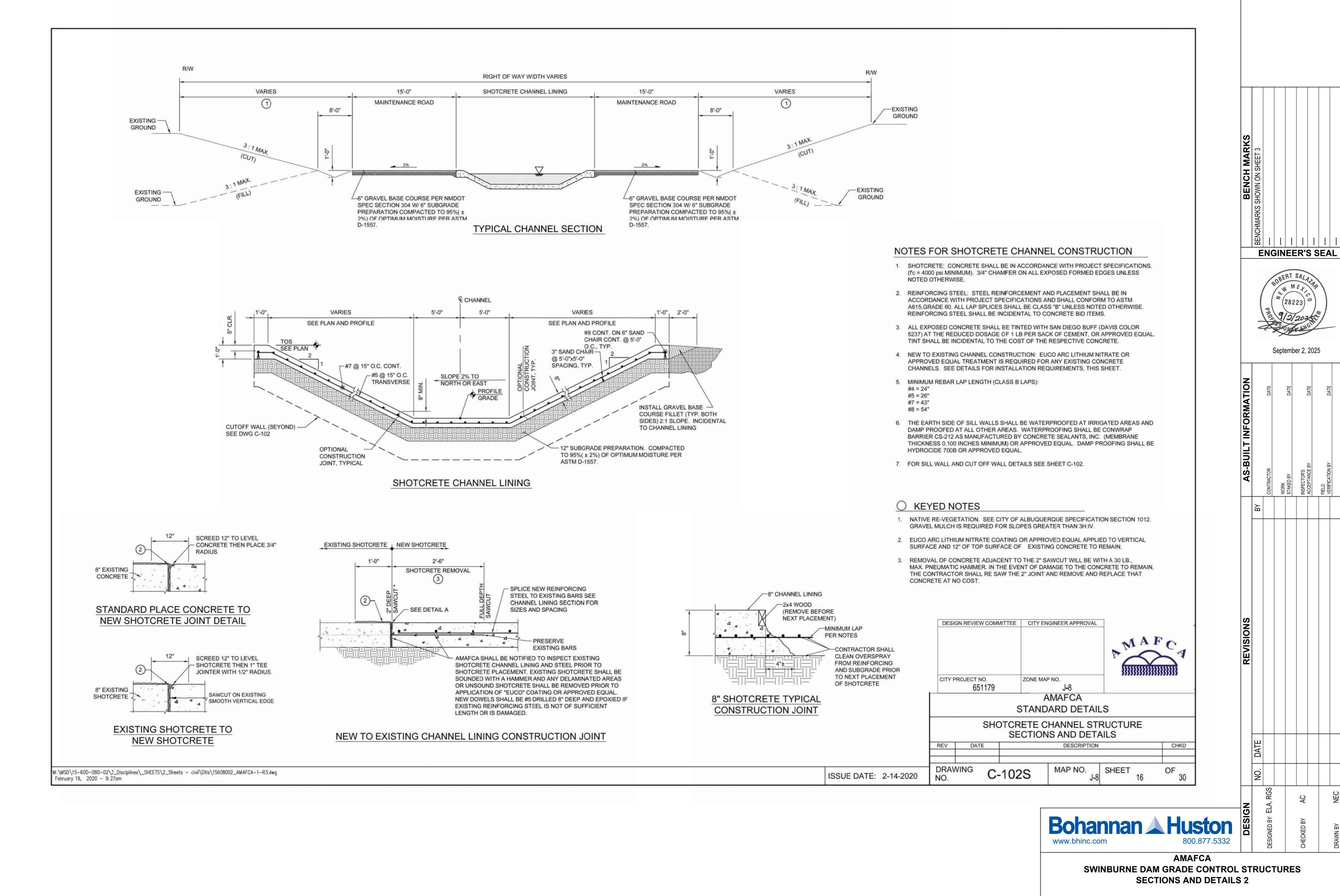
22

ENGINEER'S SEAL

20240392

D-01

Tue, 2-Sep-2025 - 2:27:pm, Plotted by: RSALAZAR P:\20240392\SW\Design\plans\20240392_18_D-01_Sections and Details 1.dwg



BHI PROJECT NO. 20240392 Dwg No. D-02

22

Tue, 2-Sep-2025 - 2:27:pm, Plotted by: RSALAZAR
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