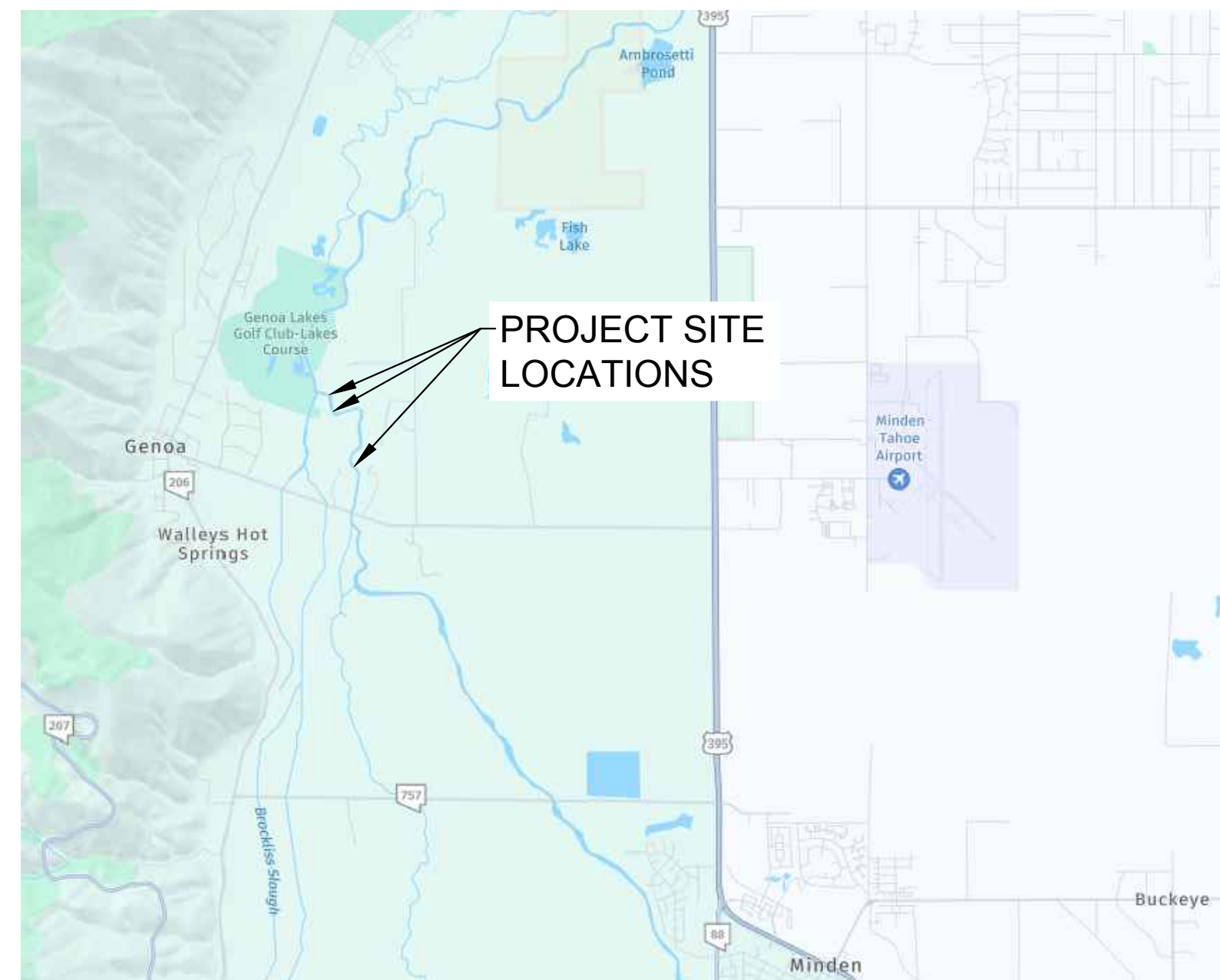
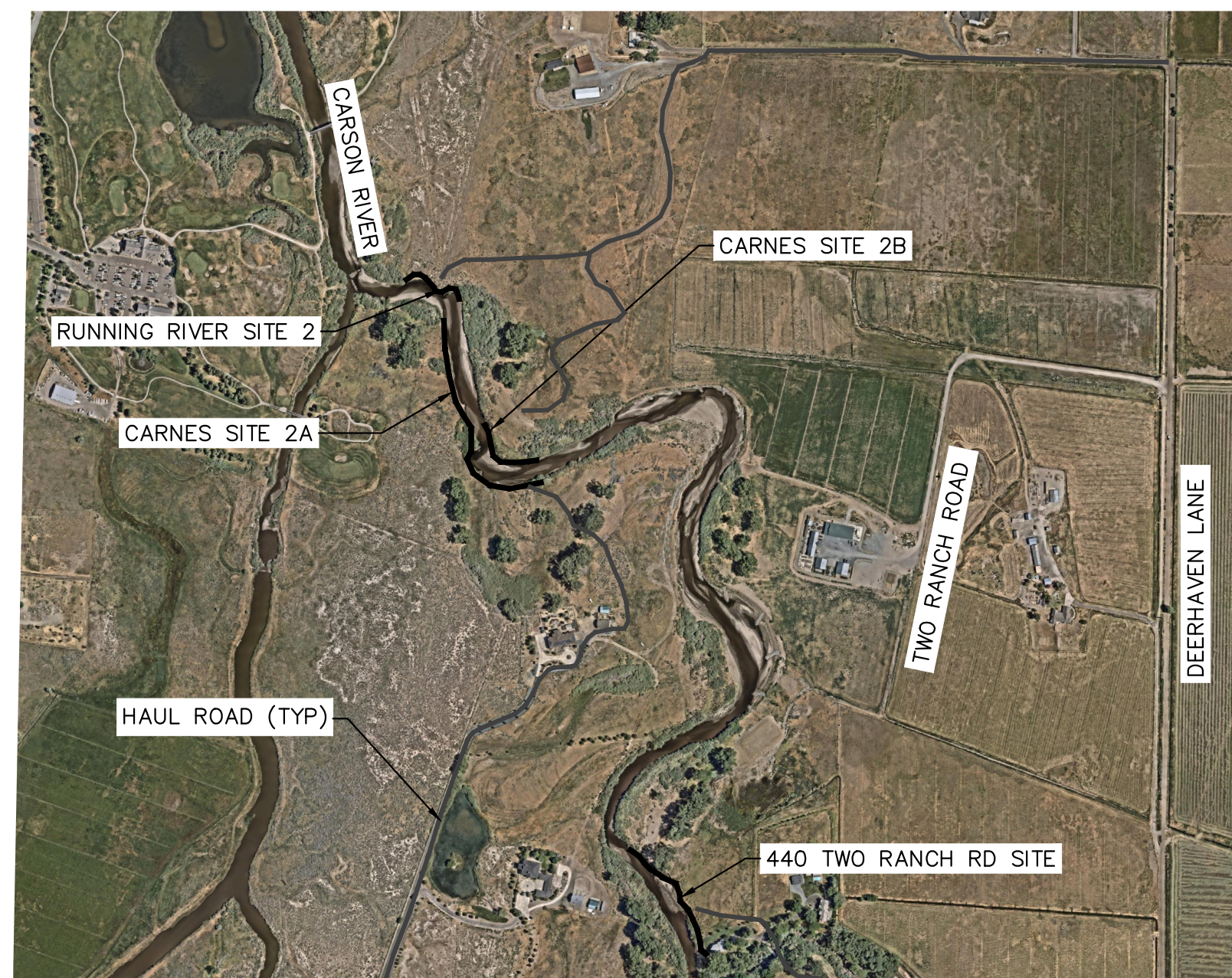


CARSON VALLEY CONSERVATION DISTRICT

APNS 1319-03-810-001, 1319-11-001-013, 1319-11-001-015, 1319-11-002-017, 1319-11-002-032, 1319-11-002-014



Kimley»»Horn

CIVIL ENGINEER
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7900 RANCHARRAH PARKWAY
RENO, NV 89511 SUITE 100
CONTACT: SHAKER GORLA, P.E., CFM
PHONE: (775) 453-6972

CARSON VALLEY CONSERVATION DISTRICT
1702 COUNTY ROAD, SUITE A
MINDEN, NV 89423
CONTACT: RICHARD WILKINSON
PHONE: (775) 782-3661

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE BOARD OF COUNTY COMMISSIONERS' CONDITIONS OF APPROVAL, ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES, AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, COUNTY ORDINANCES, AND CODES. IN THE EVENT OF A CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND THE COUNTY CODES, THE COUNTY CODES SHALL PREVAIL. IN THE EVENT OF A CONFLICT FOR THE DRY UTILITY PLANS, CONFORMANCE WITH THE COUNTY CODES AND APPLICABLE STATE AND NATIONAL UTILITY CODES SHALL PREVAIL.



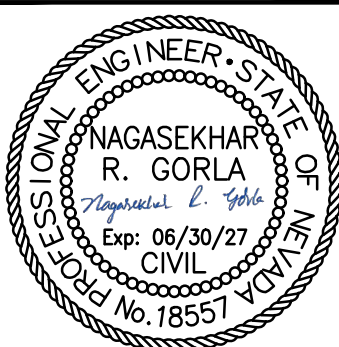
SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C2.0	NOTES, LEGENDS & ABBREVIATIONS
C3.0	RUNNING RIVER 2 SITE AND GRADING PLAN
C3.1	CARNES 2 SITE AND GRADING PLAN
C3.2	440 TWO RANCH RD 2 SITE AND GRADING PLAN
C4.0	DETAILS
C5.0	440 TWO RANCH 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN
C5.1	CARNES 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN
C5.2	RUNNING RIVER 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN

COVER SHEET

GENOA PHASE IV 2025
CARSON RIVER
RESTORATION PROJECTS
GENOA, NEVADA

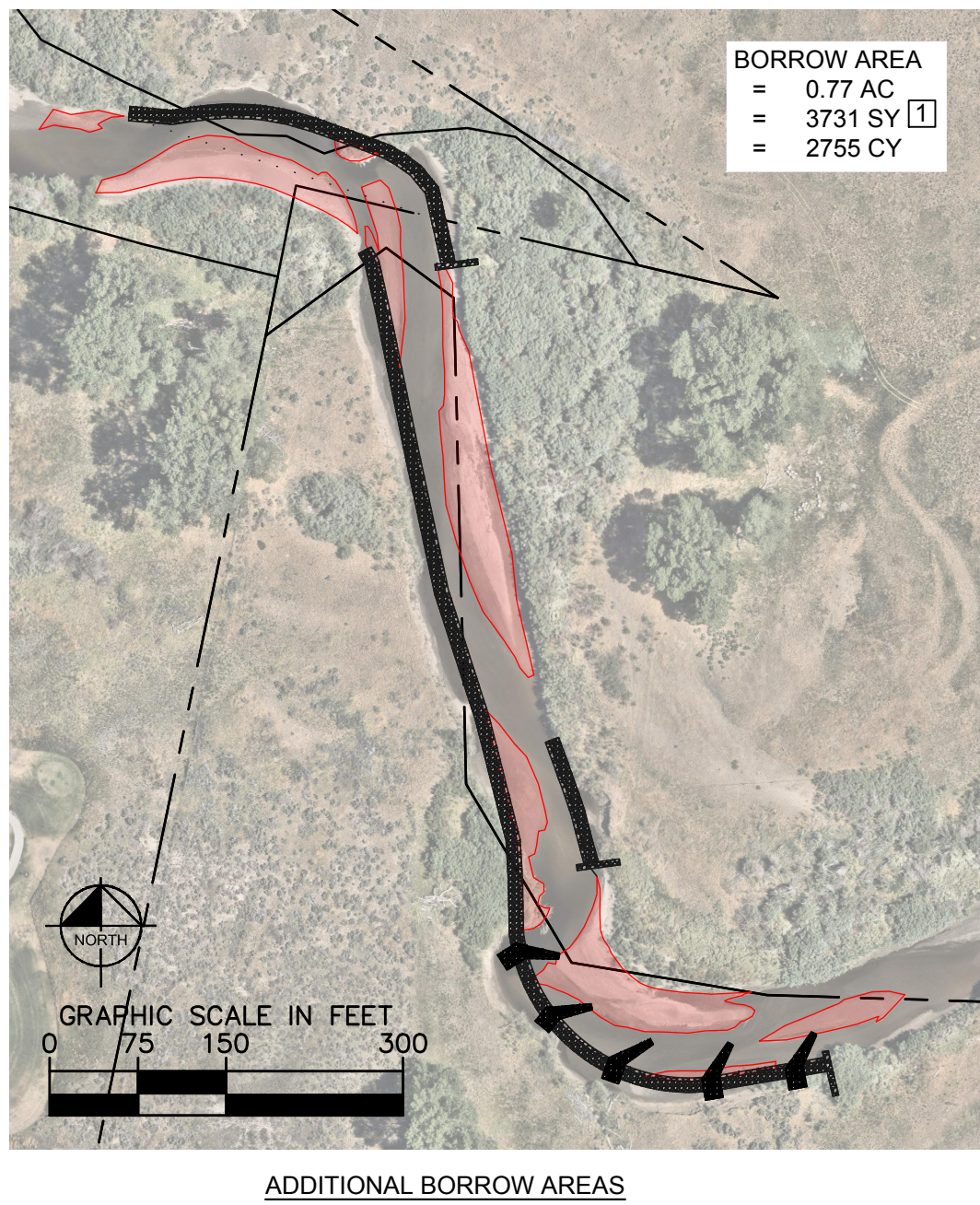
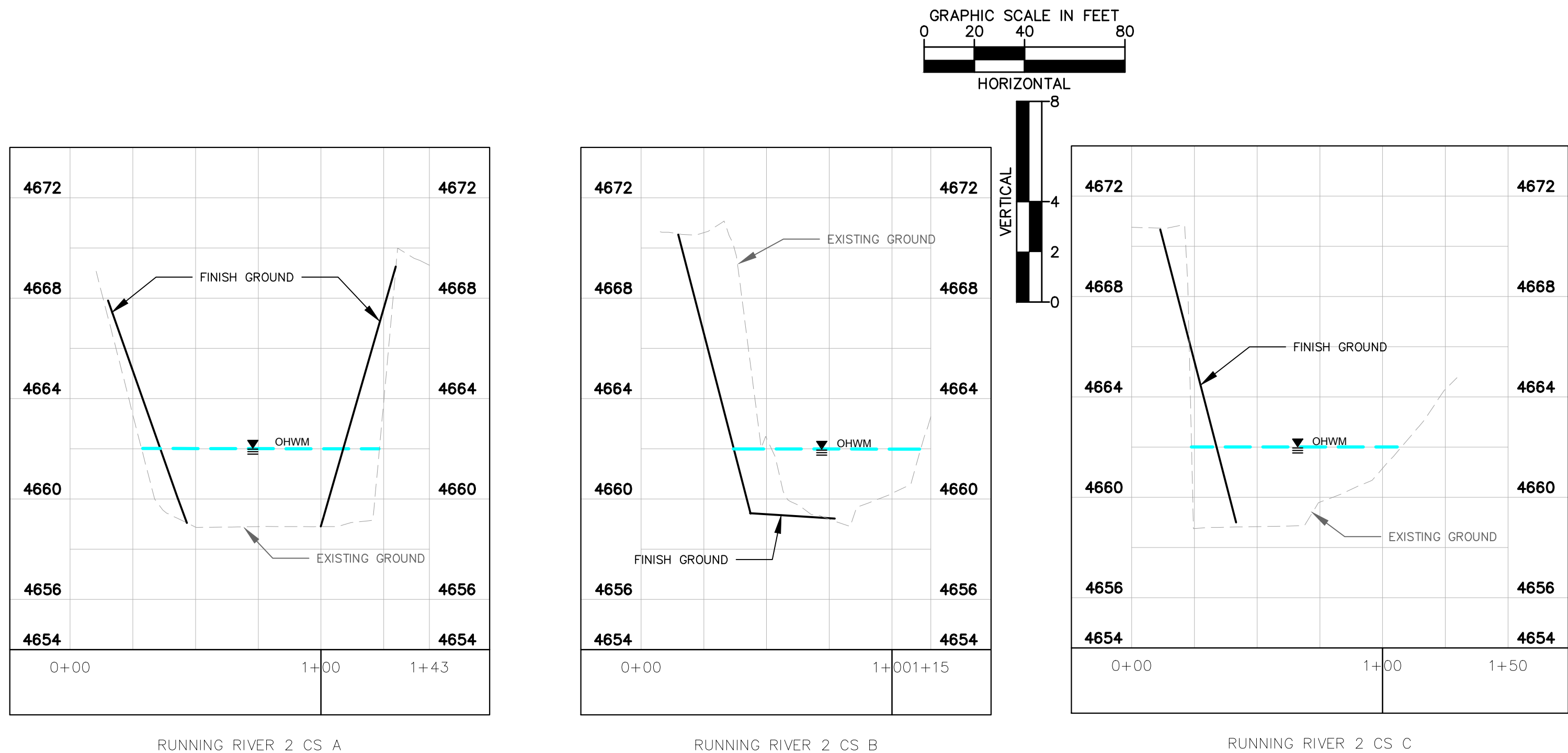
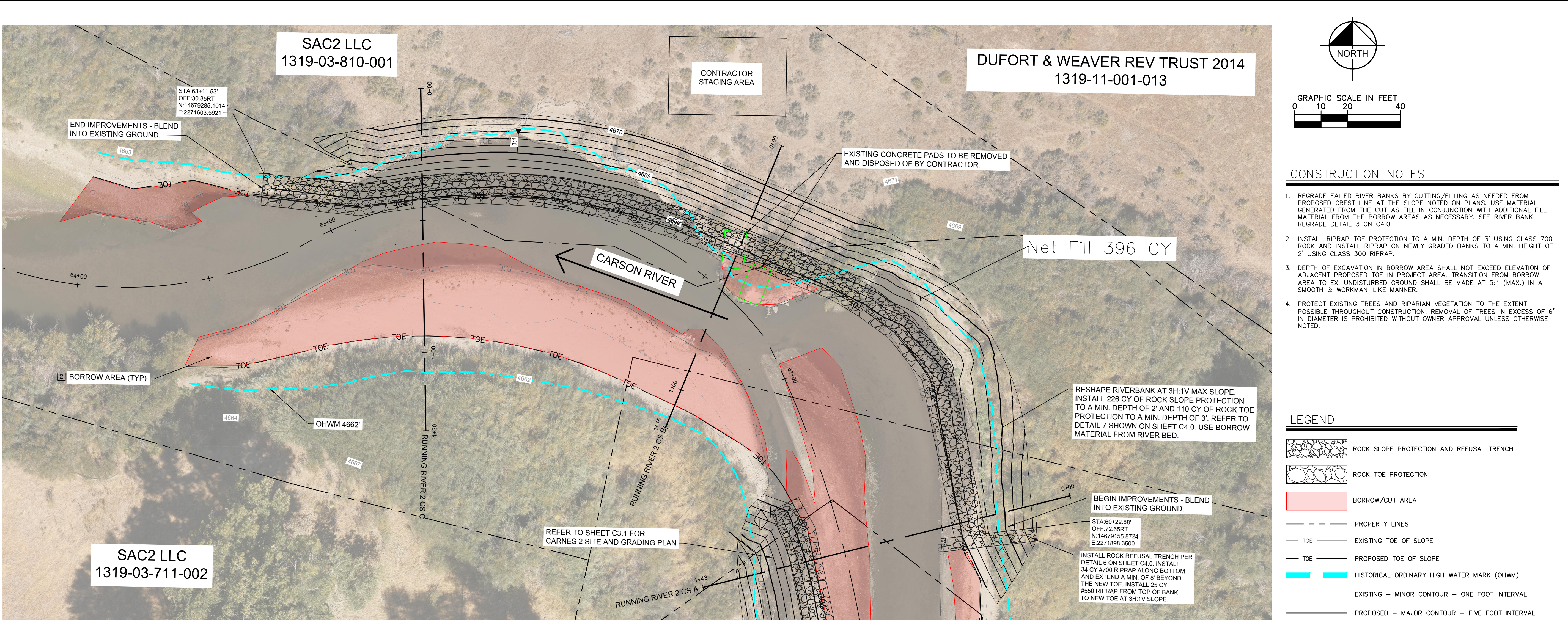
SHEET NUMBER
C1.0

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KHA PROJECT	DATE	SCALE: AS SHOWN	DESIGNED BY: SG	DRAWN BY: HIR	CHECKED BY: SG
192407100	8/15/2025				

Plotted By:Roofener, Haley Date:August 15, 2025 09:43:21am File Path:K:\REN_Civil\192407200 - CVOCD 2025 Carson Riverbank Restoration\07 CAD\PlanSheets\22x34\Plans\G-C-SITE.dwg
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ESTIMATED QUANTITIES	
EARTH WORK: 0.28 AC (±345.33 L.F. AT TOP OF SLOPE)	
CUT = 298 CY	
FILL = 694 CY	
NET FILL = 396 CY	
EARTH WORK BELOW OHWM:	
CUT = 57 CY	
FILL = 550 CY	
NET FILL = 493 CY	
CLASS 300 ROCK= 226 CY	
CLASS 550 ROCK= 25 CY	
CLASS 700 ROCK= 144 CY	
NOTE:	
1. EARTHWORK CALCULATIONS ARE BASED ON SURFACE TO SURFACE, UNADJUSTED ANALYSIS.	
2. NO GUARANTEE IS MADE CONCERNING THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.	
3. THE BORROW AREAS AND ASSOCIATED CUT ARE NOT INCLUDED IN THIS EARTHWORK ESTIMATE.	
4. ROCK ESTIMATES ARE BASED ON APPROXIMATE ROCK SLOPE PROTECTION, ROCK TOE PROTECTION, AND ROCK REFUSAL TRENCH VOLUMES.	

- GENERAL NOTES**
1. BORROW AREA AND BORROW VOLUME ARE CUMULATIVE OF RUNNING RIVER 2 AND CARNES 2 SITES. EXCAVATE TO AN AVERAGE DEPTH OF 2.24' TO MAINTAIN A 1:1 CUT AND FILL RATIO ACROSS BOTH SITES. SEE SHEET C3.1 FOR CARNES 2 SITE AND GRADING PLAN.
 2. BORROW AREAS ARE APPROXIMATED USING AERIAL IMAGERY FROM JULY 2025. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.



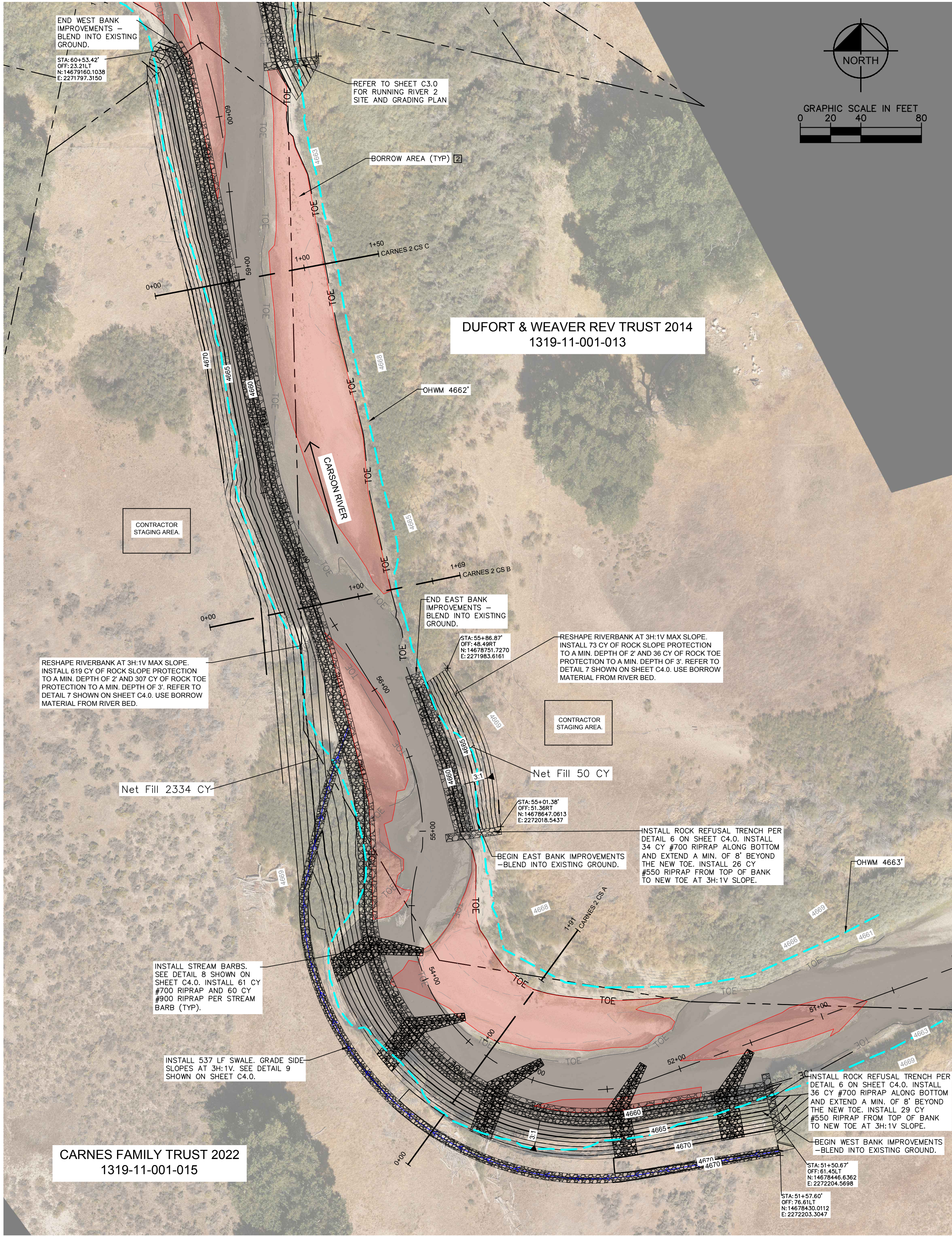
KHA PROJECT 192407100	DATE 8/15/2025	SCALE: AS SHOWN	DESIGNED BY: SG	DRAWN BY: HR	CHECKED BY: SG
RUNNING RIVER 2 SITE AND GRADING PLAN					
GENOA PHASE IV 2025 CARSON RIVER RESTORATION PROJECTS GENOA, NEVADA					
SHEET NUMBER C3.0					

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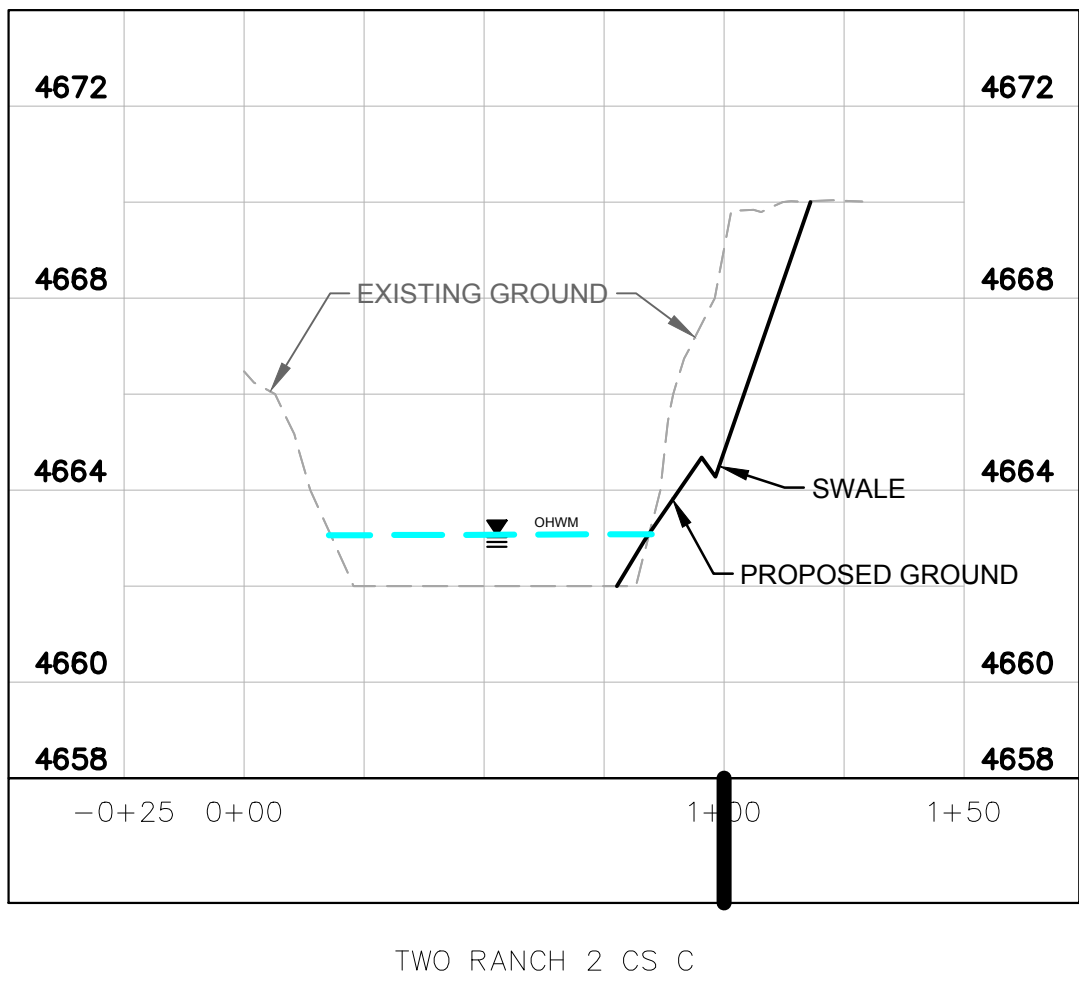
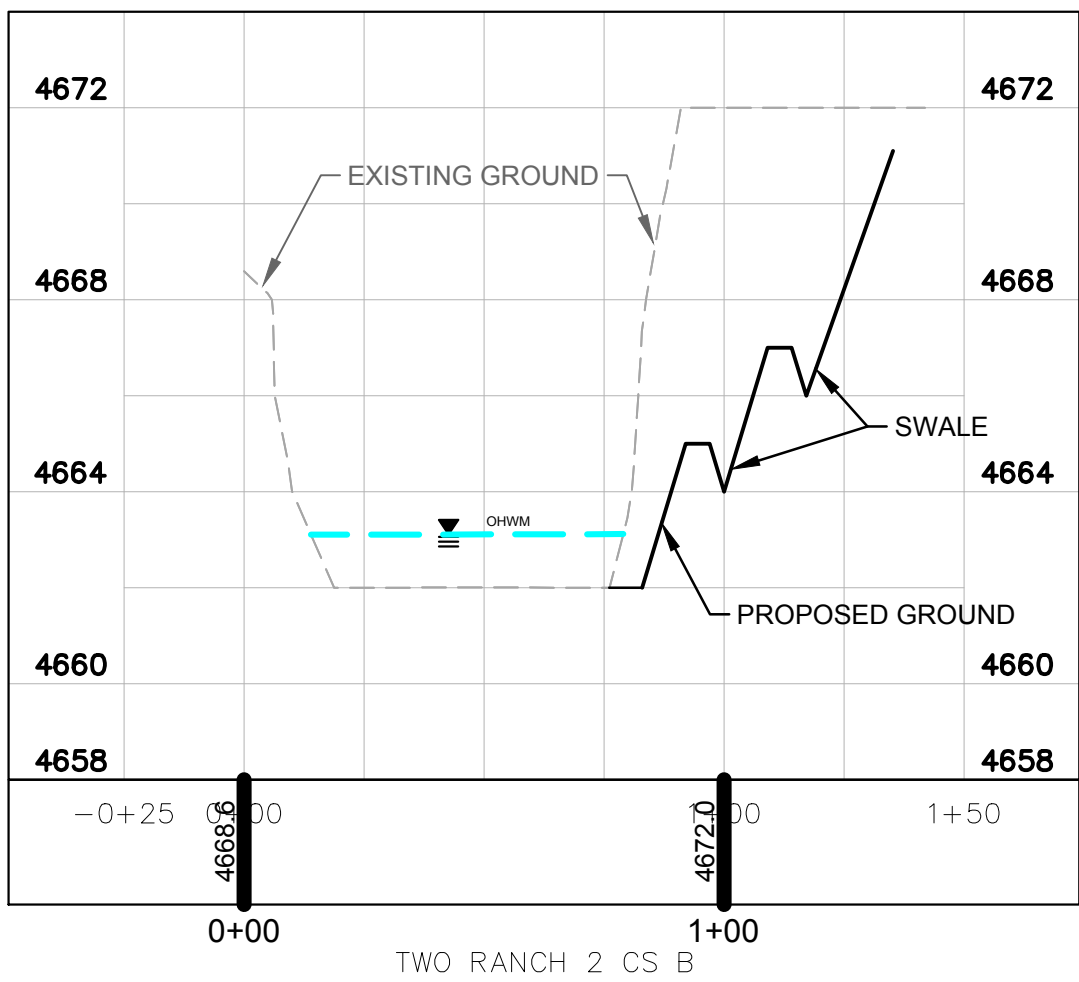
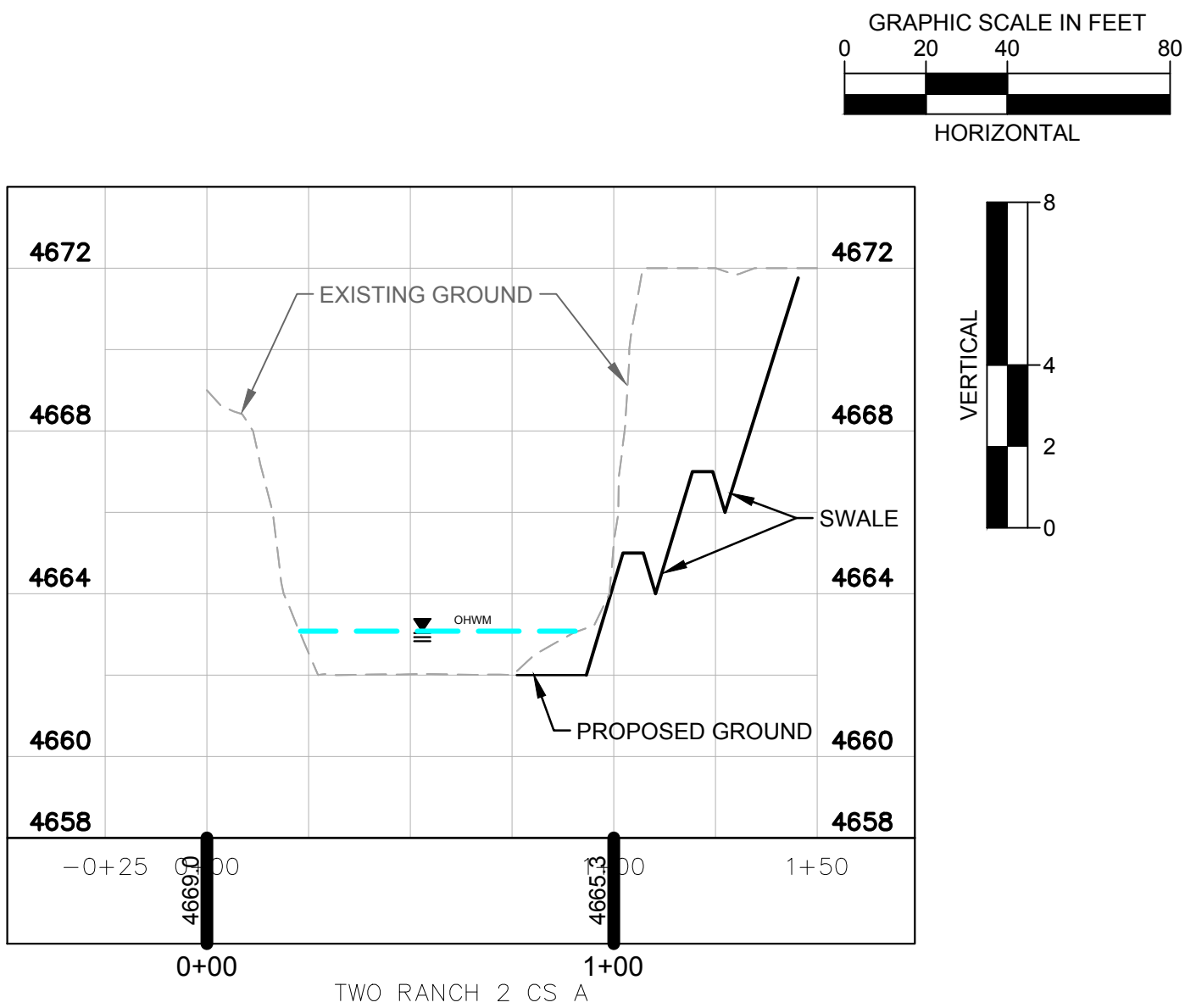
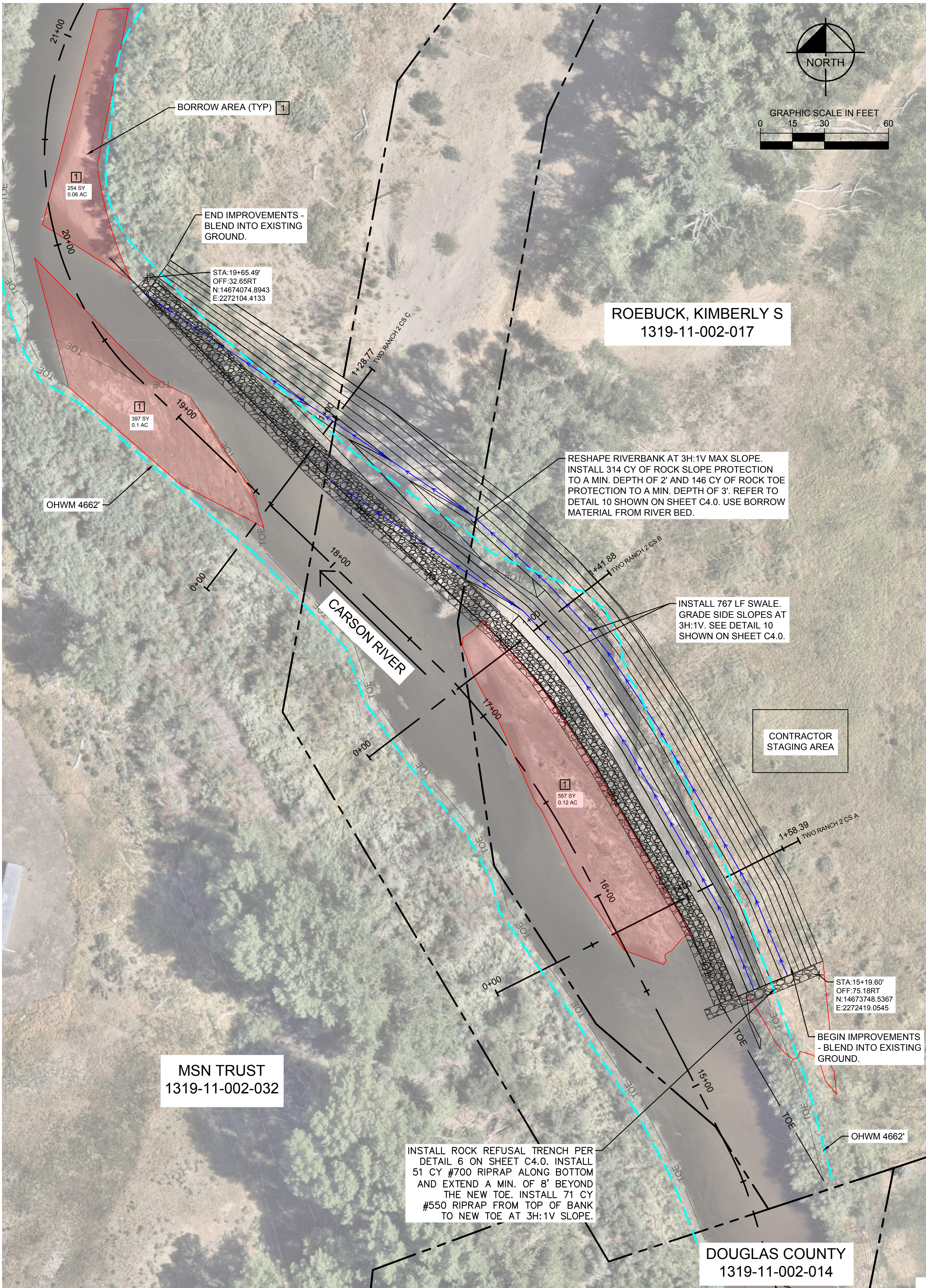
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PROFESSIONAL ENGINEER STATE OF NEVADA
NAGASEKHAR R. GORLA
Registration No. 18551
Exp. 06/30/27
CIVIL

REVISIONS	DATE	BY
No.		



Plotted By:Gorla, Shaker Date:May 13, 2026 03:44:25pm File Path:K:\REN_Civil\192407200 - C\VD 2025 Carson Riverbank Restoration\07 CAD\Plansheets\22x34\Plans\C-SITE-Two Ranch.dwg
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LEGEND

- ROCK SLOPE PROTECTION AND REFUSAL TRENCH
- ROCK TOE PROTECTION
- BORROW/CUT AREA
- PROPERTY LINES
- TOE EXISTING TOE OF SLOPE
- TOE PROPOSED TOE OF SLOPE
- HISTORICAL ORDINARY HIGH WATER MARK (OHWM)
- SWALE FLOW LINE
- PROPOSED - MAJOR CONTOUR - FIVE FOOT INTERVAL
- PROPOSED - MINOR CONTOUR - ONE FOOT INTERVAL

CONSTRUCTION NOTES

- REGRADE FAILED RIVER BANKS BY CUTTING/FILLING AS NEEDED FROM PROPOSED CREST LINE AT THE SLOPE NOTED ON PLANS. USE MATERIAL GENERATED FROM THE CUT AS FILL IN CONJUNCTION WITH ADDITIONAL FILL MATERIAL FROM THE BORROW AREAS AS NECESSARY. SEE RIVER BANK REGRADE DETAIL 3 ON C4.0.
- INSTALL RIPRAP TOE PROTECTION TO A MIN. DEPTH OF 3' USING CLASS 700 ROCK AND INSTALL RIPRAP ON NEWLY GRADED BANKS TO A MIN. HEIGHT OF 2' USING CLASS 300 RIPRAP.
- DEPTH OF EXCAVATION IN BORROW AREA SHALL NOT EXCEED ELEVATION OF ADJACENT PROPOSED TOE IN PROJECT AREA. TRANSITION FROM BORROW AREA TO EX. UNDISTURBED GROUND SHALL BE MADE AT 5:1 (MAX.) IN A SMOOTH & WORKMAN-LIKE MANNER.
- PROTECT EXISTING TREES AND RIPARIAN VEGETATION TO THE EXTENT POSSIBLE THROUGHOUT CONSTRUCTION. REMOVAL OF TREES IN EXCESS OF 6" IN DIAMETER IS PROHIBITED WITHOUT OWNER APPROVAL UNLESS OTHERWISE NOTED.

ESTIMATED QUANTITIES*

EARTH WORK: 0.36 AC. (±462.28 L.F. AT TOP OF SLOPE)
CUT = 27 CY
FILL = 1990 CY
NET FILL = 1963 CY

EARTH WORK BELOW OHWM
CUT = 11 CY
FILL = 768 CY
NET FILL = 757 CY

CLASS 300 ROCK= 314 CY
CLASS 550 ROCK= 71 CY
CLASS 700 ROCK= 197 CY

NOTE:

- EARTHWORK CALCULATIONS ARE BASED ON SURFACE TO SURFACE, UNADJUSTED ANALYSIS.
- NO GUARANTEE IS MADE CONCERNING THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.
- THE BORROW AREAS AND ASSOCIATED CUT ARE NOT INCLUDED IN THIS EARTHWORK ESTIMATE.
- ROCK ESTIMATES ARE BASED ON APPROXIMATE ROCK SLOPE PROTECTION, ROCK TOE PROTECTION AND ROCK REFUSAL TRENCH VOLUMES.

* ESTIMATED CUT AND FILL QUANTITIES WILL CHANGE WHEN UPDATED TOPOGRAPHY IS PROVIDED BY THE SURVEYOR.

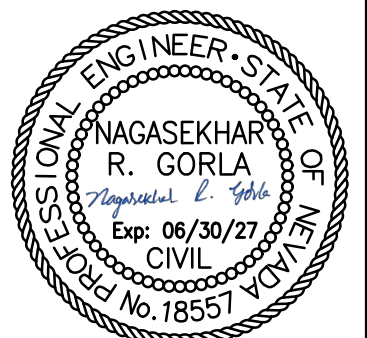
GENERAL NOTES

- BORROW AREAS ARE APPROXIMATED USING AERIAL IMAGERY FROM JULY 2025. THE CONTRACTOR SHALL DETERMINE ACTUAL QUANTITIES OF WORK ASSOCIATED WITH THE PROJECT.
TOTAL ESTIMATED BORROW AREA:
0.25 ACRES
1210 CY



No.	REVISIONS	DATE	BY

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KHA PROJECT 192407100	DATE 8/15/2025	SCALE: AS SHOWN	DESIGNED BY: SG	HR	CHECKED BY: SG
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440 TWO RANCH RD 2
SITE AND GRADING
PLAN

GENOA PHASE IV 2025
CARSON RIVER
RESTORATION PROJECTS
GENOA, NEVADA

SHEET NUMBER

C3.2

Plotted By: Barnes, Aidan Date: September 26, 2025 11:16:44am File Path: K:\REN\Civil\192407200 - CVCD 2025 Carson Riverbank Restoration\07 CAD\PlanSheets\22x34\Plans\VC-DETAILS.dwg
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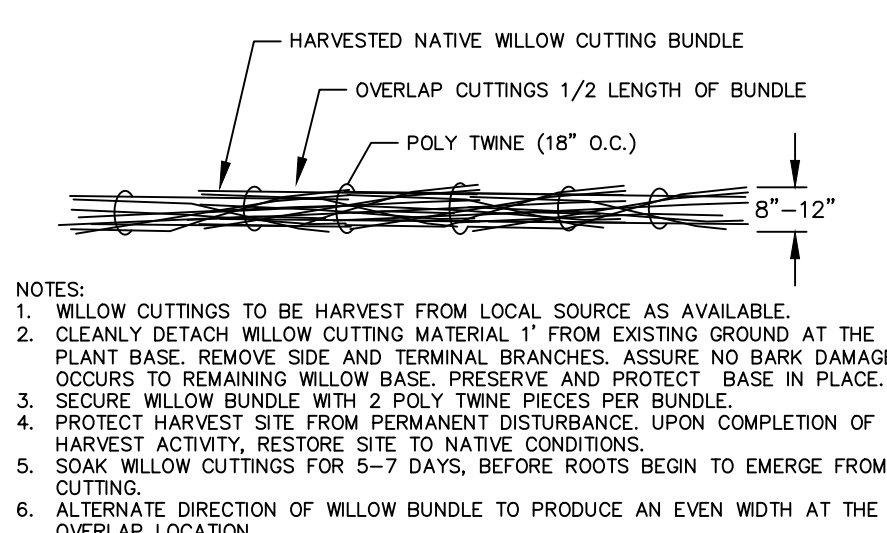
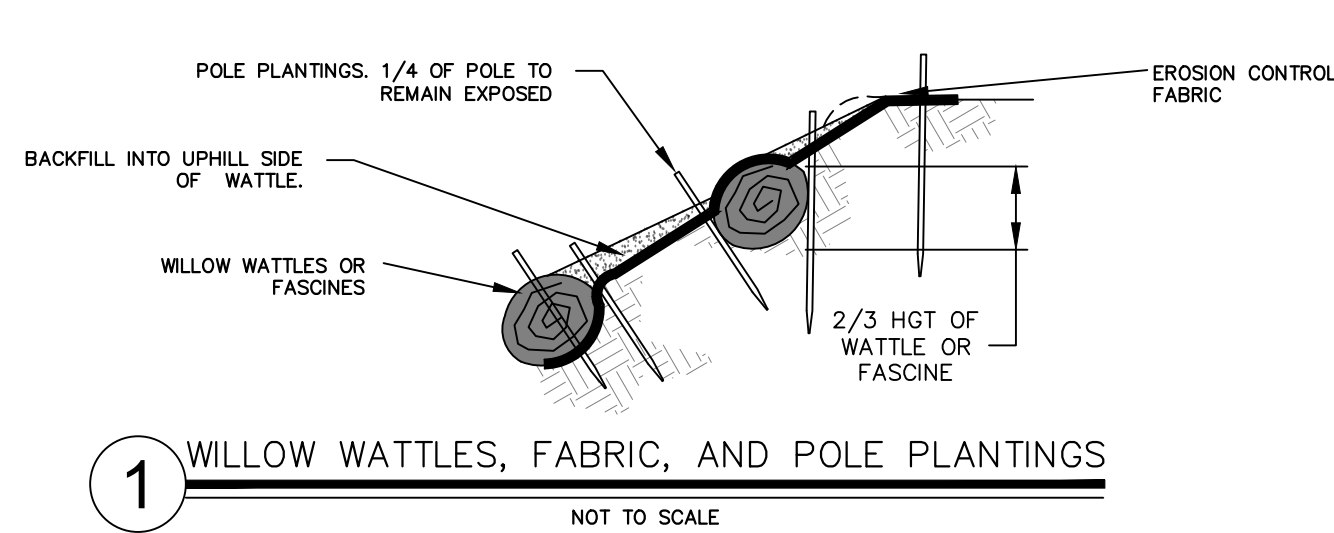


TABLE 200.07.04-1

Percent age by Mass Passin g Sieve	Sieve Size (inches)					
	Class 150	Class 300	Class 400	Class 550	Class 700	Class 900
100	10	20	30	40	48	60
70 - 85	9	18	27	36	45	54
30 - 50	6	12	18	24	30	36
5 - 15	2	5	7	12	18	24
0	1	2	3	6	8	12
D50(1)	6	12	16	22	28	35

1. MEAN STONE SIZE.

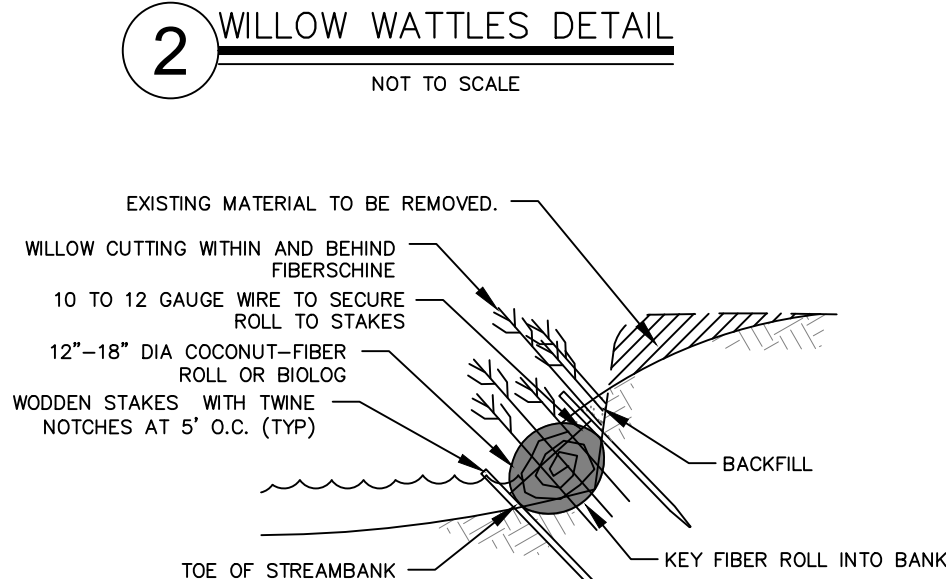
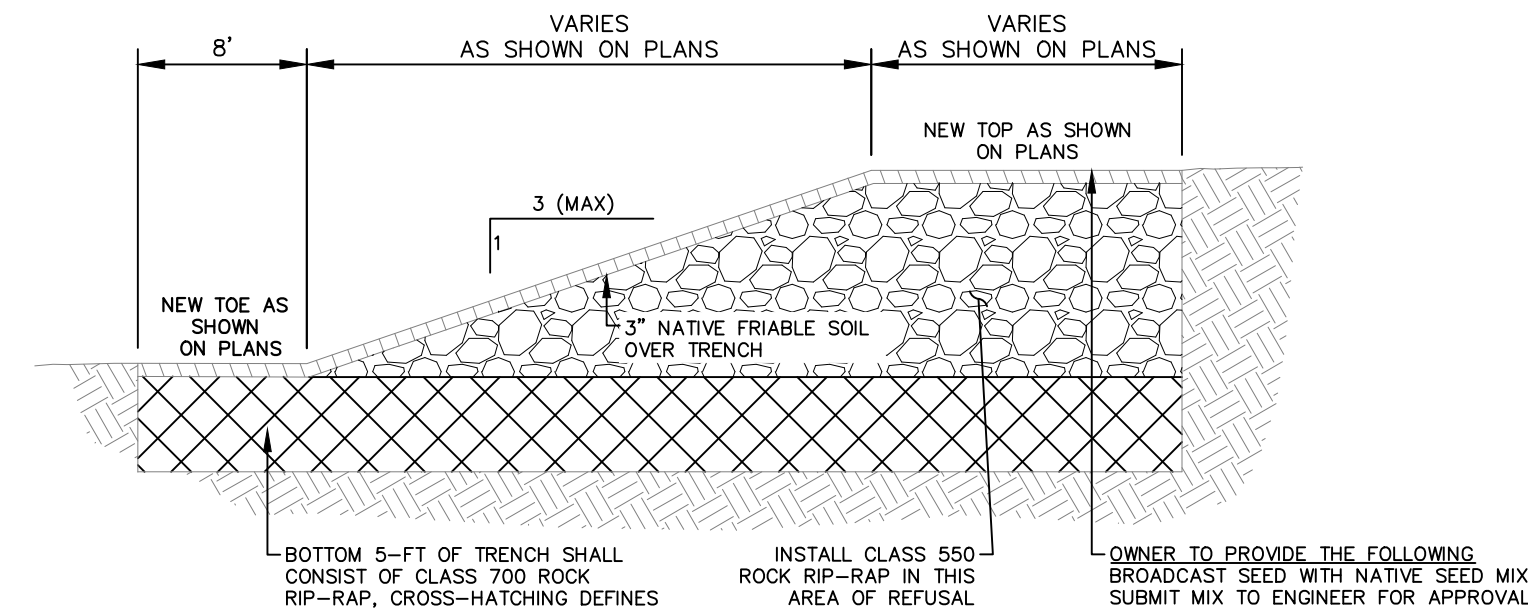
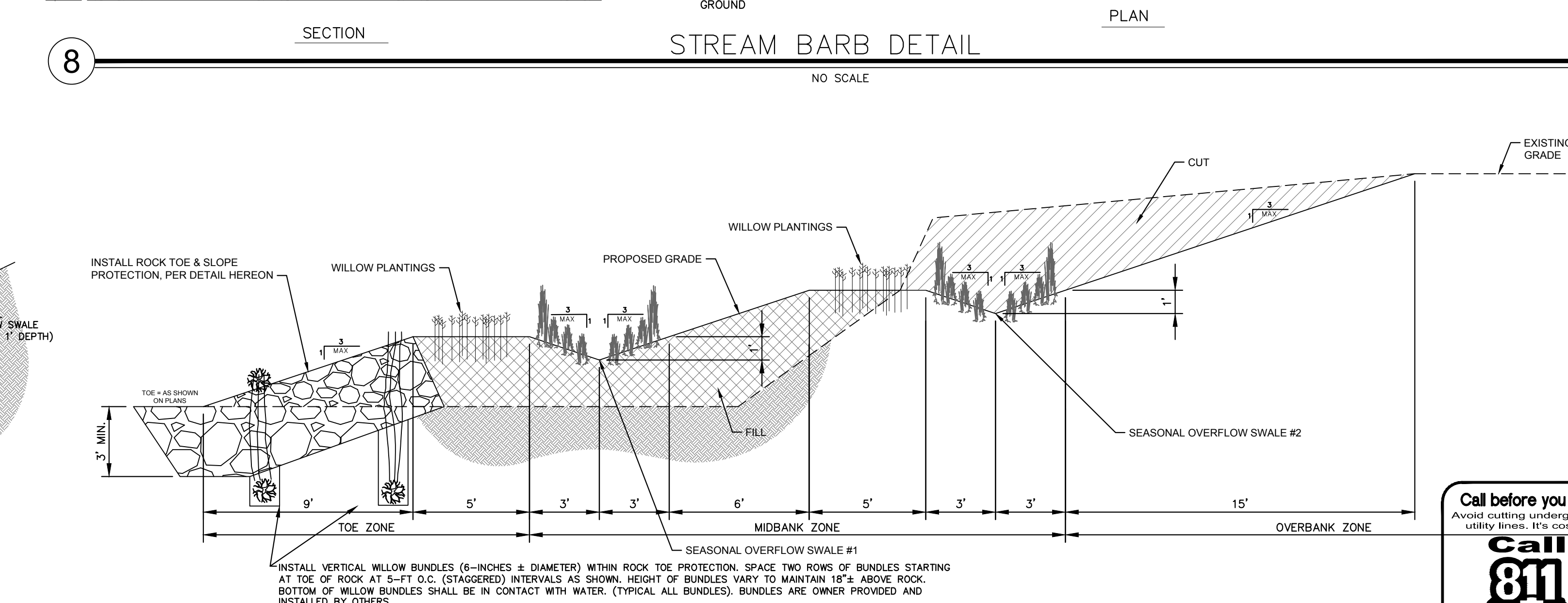
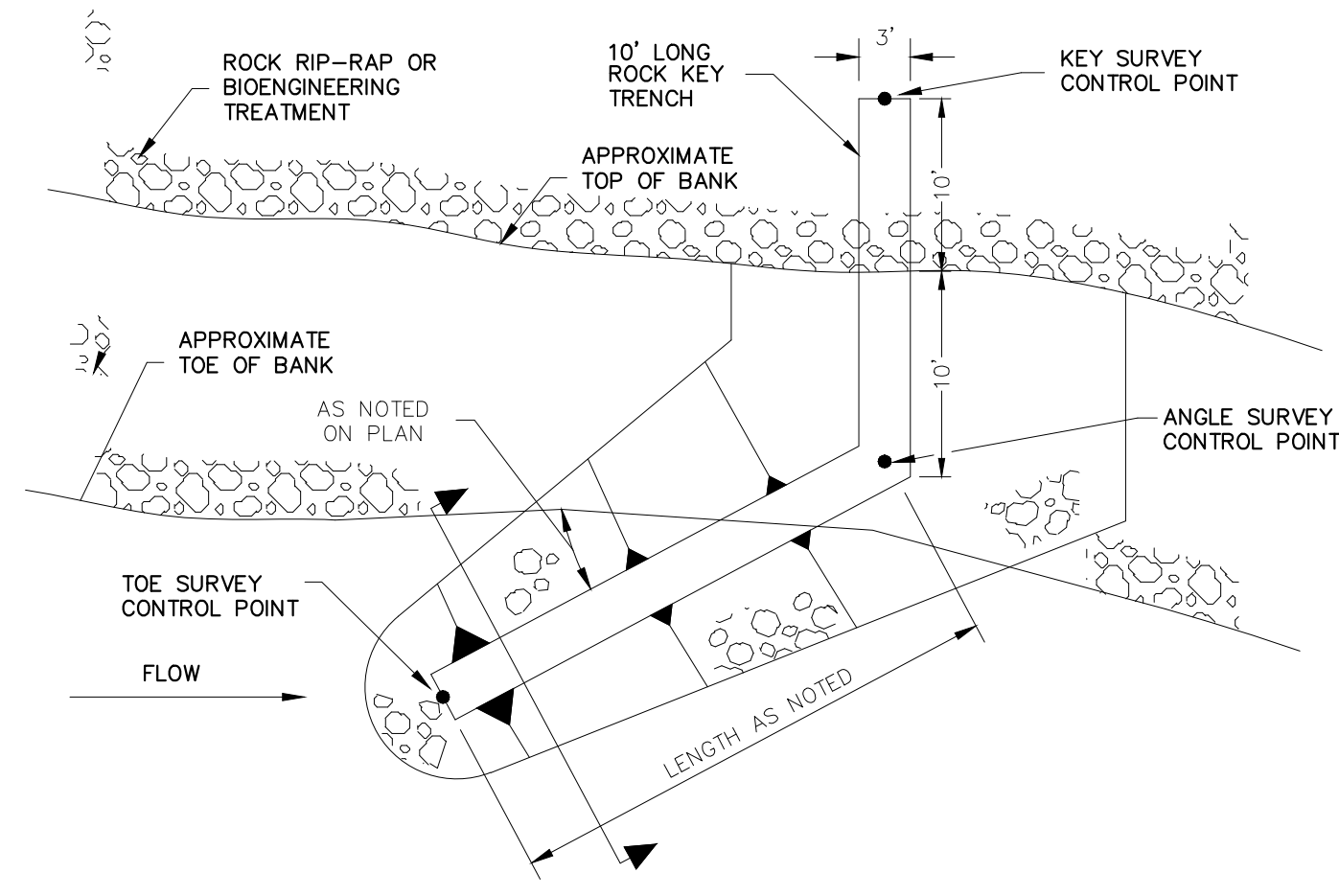
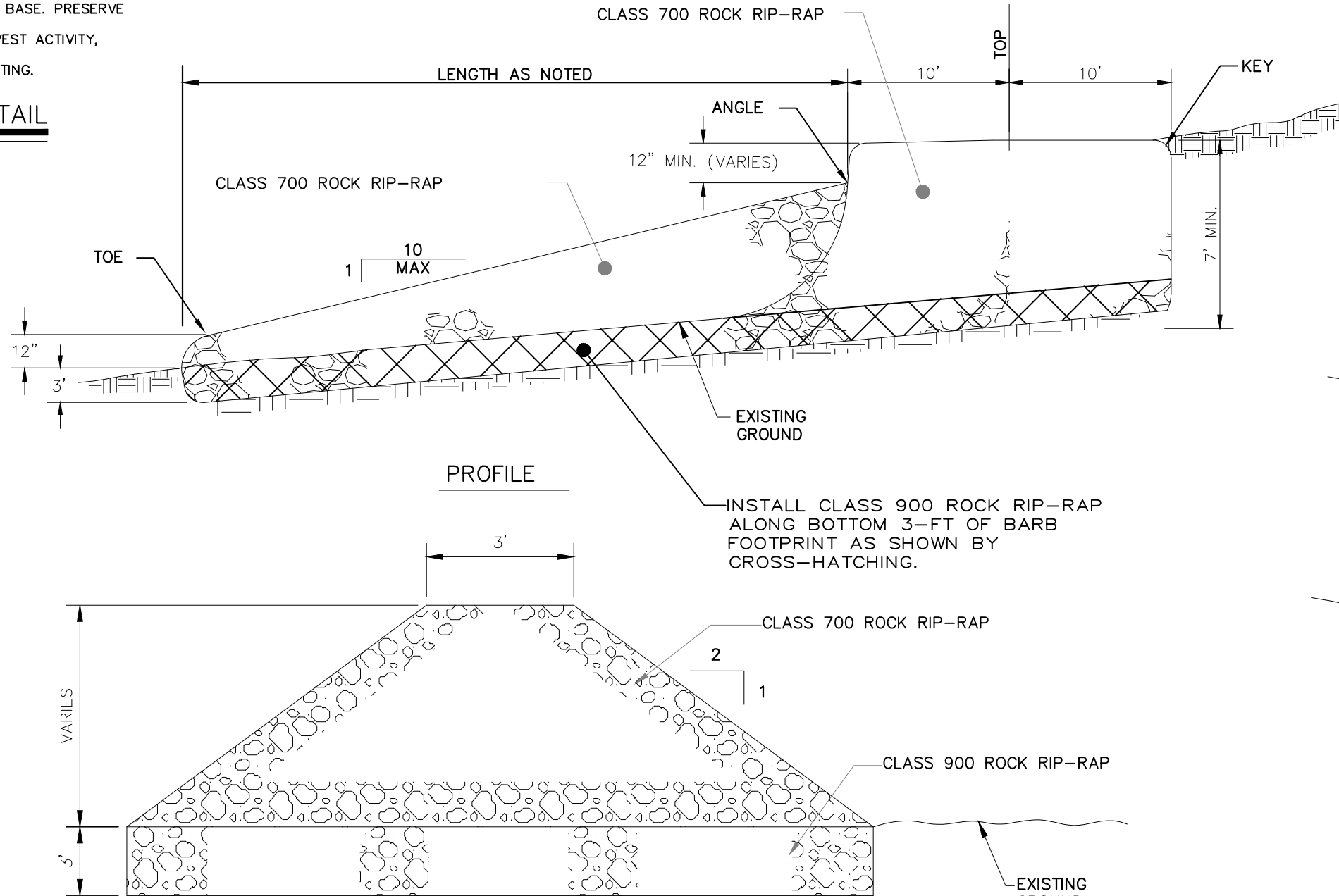
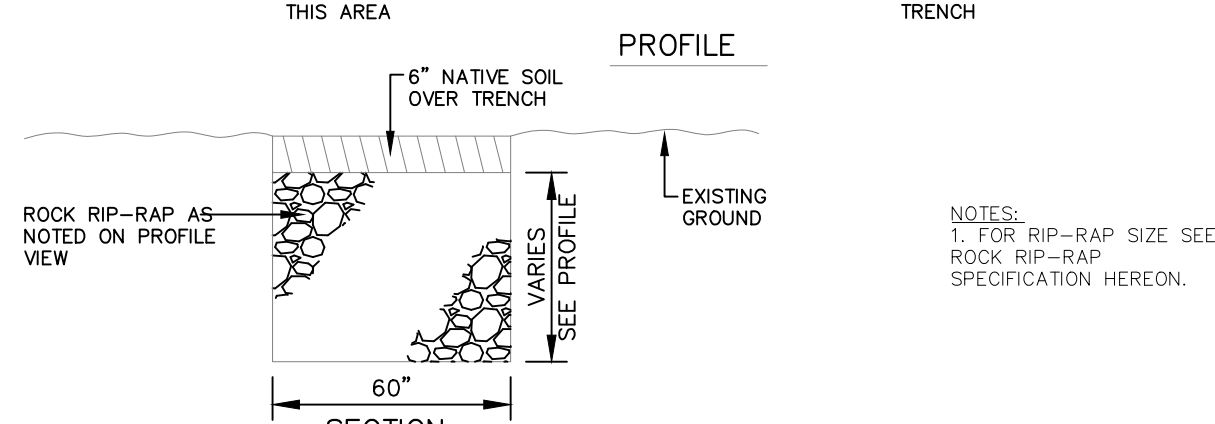


TABLE 200.07.04-2

Test	Test Method	Requirements
Resistance to Wear (percent)	ASTM C 535 (1)	45 Maximum
Absorption (percent)	ASTM C 127	4.2 Maximum
Apparent Specific Gravity	ASTM C 97	2.5 Minimum (2)
Durability	ASTM D 3744	52 Minimum

1. 500 REVOLUTIONS
2. RIP-RAP WITH A SPECIFIC GRAVITY OF LESS THAN 2.5 WILL NOT BE ALLOWED.
3. RIP-RAP SHALL BE QUARRIED WITH FRACTURED FACES.
4. RIP-RAP SHALL HAVE AN EARTH TONE WHICH BLENDS WITH SURROUNDING ENVIRONMENT.



NO.	REVISIONS	DATE	BY

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PROFESSIONAL ENGINEER - STATE OF NEVADA
R. GORLA
Exp: 06/30/27
Civil
Old No. 18557

KHA PROJECT	DATE	SCALE	DESIGNED BY	HR	CHECKED BY
192407100	8/15/2025	AS SHOWN	SG	HR	SG

DETAILS

GENOA PHASE IV 2025
CARSON RIVER
RESTORATION PROJECTS
GENOA, NEVADA

SHEET NUMBER
C4.0

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

Plotted By:Roofener, Haley Date:August 14, 2025 03:18:41pm
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File Path: K:\REN_Civil\192407200 - CVD 2025 County Riverbank Restoration\CAD\Plans\52.2 RUNNING RIVER 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN.dwg
 Date: August 14, 2025 03:18:41pm
 Plotted By: Redfearn, Haley
 Date: August 14, 2025 03:18:41pm

GENERAL DE-WATERING & TEMPORARY EROSION CONTROL PLAN NOTES

1. PLAN SHOWN IS GENERIC & WILL REQUIRE ADJUSTMENT IN FIELD BY CONTRACTOR.
2. PLAN ASSUMES WORK IS CONDUCTED AT EXTREMELY LOW FLOW CONDITIONS.
3. CONTRACTOR SHALL SATISFY HIMSELF THAT LOCATION WHERE TEMPORARY LOW-FLOW CHANNEL IS CUT WILL ALLOW ENOUGH BORROW AREA TO SATISFY FILL REQUIREMENTS OF PROJECT.
4. LOW-FLOW CHANNEL WILL BE FILLED & RESTORED TO EX. CONDITIONS.
5. IN CASE OF EMERGENCY CALL CARSON VALLEY CONSERVATION DISTRICT (RICH WILKINSON, @ 775-782-3661, X 3830 OR ENGINEER @ 775-787-7552).
6. CONTRACTOR MAY SUBMIT ALTERNATE DE-WATERING & EROSION CONTROL PLAN TO ENGINEER. SUBMITTAL SHALL BE MADE IN ADVANCE OF CONSTRUCTION ACTIVITIES FOR REVIEW & APPROVAL.
7. CONSTRUCTION SCHEDULE BE SCHEDULED TO COINCIDE WITH PERIODS OF LOW FLOW IN THE RIVER.
8. RESTORE AREAS DISTURBED BY DE-WATERING ACTIVITIES TO PRE-CONSTRUCTION CONDITIONS.
9. ANY PASTURE FENCES DAMAGED, FAILING OR RELOCATED FOR CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO EXISTING CONDITIONS AT TOP OF BANK.
10. DUST SHALL BE CONTROLLED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND OWNER.
11. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. TRASH WILL BE HAULED TO A LICENSED DISPOSAL FACILITY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE.
12. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
13. A STANDBY CROW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION CONTROL MEASURES. CONTRACTOR SHALL PROVIDE OWNER WITH THE NAME & PHONE NUMBER OF EMERGENCY CONTACT AT THE PRE-CONSTRUCTION MEETING.
14. AFTER A RAINSTORM, ALL BMP'S AND GRADED SLOPE SURFACE PROTECTION MEASURES SHALL BE INSPECTED TO VERIFY CONTINUED SATISFACTORY OPERATION AND REPAIRED OR REPLACED IF NECESSARY.
15. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
16. FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE COMPLETION OF EACH WORKING DAY.
17. BUILT UP SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN PROPER FUNCTIONING OF THE BMP'S
18. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND FOLLOWING ANY STORM EVENT ON 0.5 INCHES OR GREATER.
19. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. THE REPORT WILL CONTAIN THE NAME OF THE INSPECTOR, MEASURES, AREAS INSPECTED, OBSERVED CONDITIONS, AND NOTE CHANGES NECESSARY.
20. REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF THEY OCCUR) TO NDEP AND THE OWNER WITHIN 24 HOURS.
21. FILTER FABRIC FENCES. IF THE FABRIC BECOMES CLOGGED, TORN, OR DEGRADES, IT SHOULD BE REPLACED. MAKE SURE THE STAKES ARE SECURELY DRIVEN IN THE GROUND AND ARE IN GOOD SHAPE (IE, NOT BENT, CRACKED, OR SPLINTERED, AND ARE REASONABLY PERPENDICULAR TO THE GROUND.) REPLACE DAMAGED STAKES.
22. SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES ONE-THIRD OF THE BARRIER HEIGHT. SEDIMENT REMOVED DURING MAINTENANCE WILL BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.
23. NO DE-WATERING UNLIT FLOWS EXCEED 400 CFS AS READ AT THE CARSON CITY GAUGE.

GENERAL NOTES:

1. SOME TYPES OF FILTER FABRIC FENCE HAVE STAKES INCLUDED AND DO NOT REQUIRE THE MATERIALS LISTED.
2. THE FABRIC SHOULD NOT EXCEED MORE THAN 3' ABOVE THE GROUND. CUT FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID HAVING JOINTS. WHERE JOINTS ARE NECESSARY, SPLICE THE FABRIC ONLY AT A POST, WITH AT LEAST 6" OF OVERLAP, AND FASTEN BOTH ENDS SECURELY TO THE POST.
3. INSPECT PERIODICALLY AND AFTER EACH STORM. REPLACE DAMAGED FENCE.
4. CLEAN OUT THE SEDIMENT BEFORE IT REACHES 1/3 FENCE HEIGHT. DEPOSIT THE SEDIMENT WHERE IT WILL NOT ENTER A DRAINAGEWAY.

SILT FENCE INSTALLATION INSTRUCTIONS:

1. SPACE POSTS NO MORE THAN 10' APART AND DRIVE THEM AT LEAST 1" INTO THE GROUND. ALIGN THE FENCE ALONG THE SLOPE CONTOUR, CURVING IT SLIGHTLY UPHILL TO AVOID END RUNS.
2. DIG A 4"x4" TRENCH ALONG THE UPHILL SIDE OF THE POSTS.
3. FASTEN WIRE MESH TO UPHILL SIDE OF POST WITH STAPES (ON WOOD POSTS) OR WIRE (ON STEEL POSTS). EXTEND MESH TO BOTTOM OF TRENCH. (DO NOT ATTACH MESH OR FABRIC TO TREES).
4. FASTEN FILTER FABRIC TO UPHILL SIDE OF POSTS WITH STAPES OR WIRE. EXTEND FABRIC 8" INTO TRENCH.
5. BACKFILL TRENCH AND COMPACT THE SOIL.

MATERIALS:

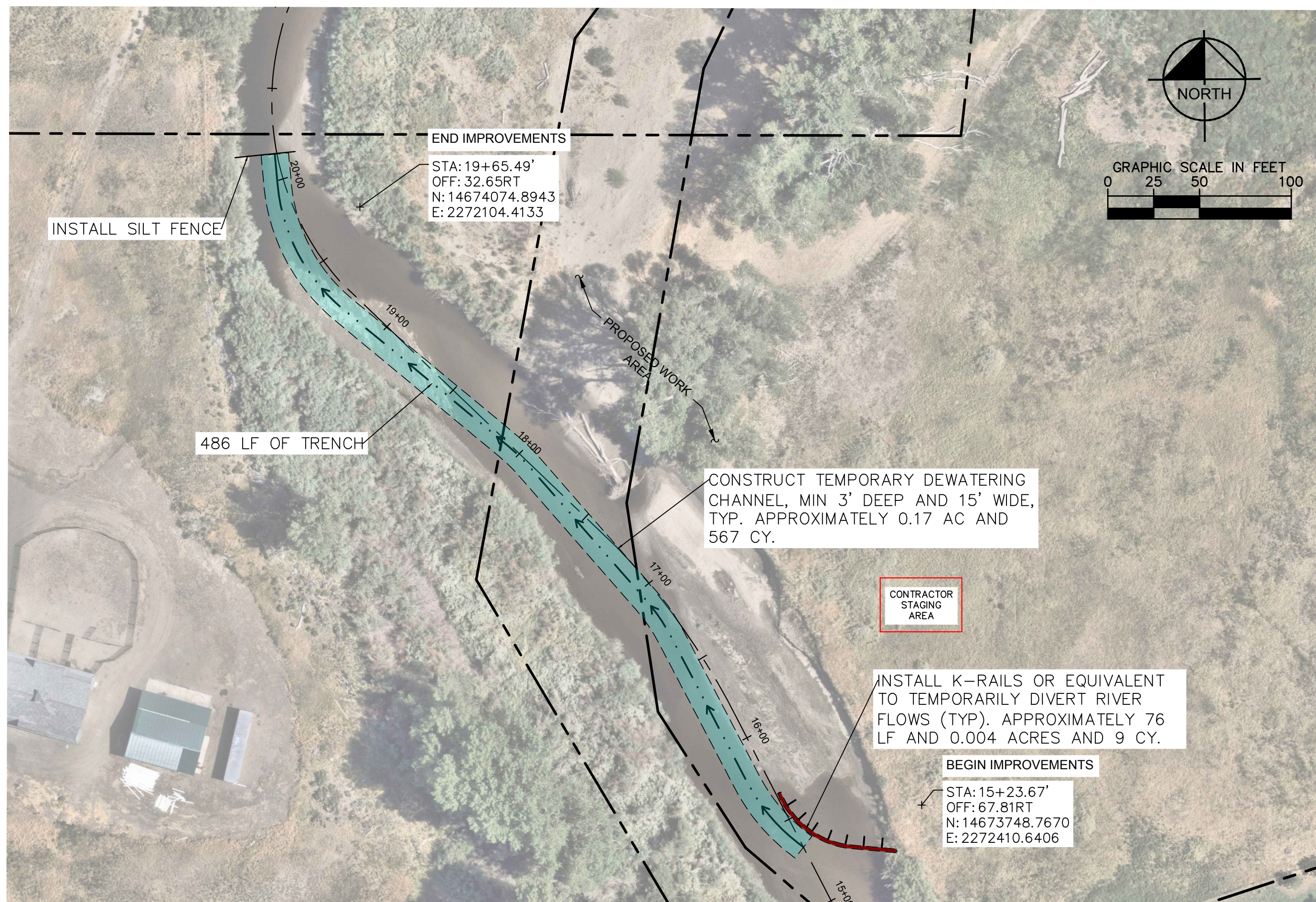
1. SILT FENCE:
 - a. FILTER FABRIC SHALL BE 42" WIDE, TENSILE STRENGTH 120 LBS., EQUIVALENT OPENING SIZE 70.
 - b. POSTS SHALL BE 5' LONG (MIN.), 4"x4" WOOD OR 1.3 LBS./FT STEEL.
 - c. WIRE MESH SHALL BE 42" WIDE, 6" MESH, 16 GAUGE WIRE (MINIMUM).
 - d. STAPLES (FOR WOOD POSTS) SHALL BE HEAVY DUTY 1" LONG, 14 GAUGE (MINIMUM).
 - e. WIRE (FOR STEEL POSTS).

SPILL PREVENTION AND RESPONSE:

1. CONTRACTOR SHALL SCRAM CLEAN ALL EQUIPMENT THAT WILL BE WORKING IN RIVER BED AT SHOP PRIOR TO COMMENCING CONSTRUCTION.
2. ALL EQUIPMENT SHALL BE CHECKED FOR LEAKS AND REPAIRED PRIOR TO COMMENCING CONSTRUCTION.
3. CONTRACTOR SHALL INSURE INTEGRITY OF SILT FENCE AND STRAW BALE BARRIERS DURING THE COURSE OF CONSTRUCTION.
4. CONTRACTOR SHALL USE DRIP PANS OR ABSORBENT MATS DURING FUELING AND MAINTENANCE TO PROTECT AGAINST SPILLS.
5. SPILLED PETROLEUM PRODUCTS, CONTAMINATED SOILS OR WATER, AND ACCUMULATED SEDIMENTS SHALL BE CLEANED UP AND PROPERLY DISPOSED OF AT A LICENSED LANDFILL. DISCHARGE OF SUCH MATERIALS TO THE RIVER CHANNEL OR DITCHES IS PROHIBITED.

REVEGETATION:

1. ALL DISTURBED AREAS, CUT & FILL SLOPES SHALL BE RE-SEED, THE SEED MIX, APPLICATION RATE ETC. SHALL BE SPECIFIED BY THE CVCD.
2. REVEGETATED AREAS WILL BE INSPECTED AT COMPLETION OF INSTALLATION & ACCEPTANCE SUBJECT TO COMPLIANCE WITH SPECIFIED MATERIALS & INSTALLATION REQUIREMENTS. FOR ONE FULL GROWING SEASON AFTER PLANTING, CONTRACTOR SHALL GUARANTEE 30% COVERAGE BY SEED. SPECIES & MULCH TYPE SHALL BE THE SAME. IF SIGNIFICANT EVIDENCE OF RILLS GROWS OR OTHER EVIDENCE OF EROSION, IF ADEQUATE COVERAGE IS NOT ACHIEVED, THE CONTRACTOR SHALL RE-SOIL, AMEND, RE-SEED OR RE-MULCH. THE ENGINEER, UPON CONTRACTOR'S REQUEST, WILL MAKE FINAL INSPECTION & ACCEPTANCE ONE FULL YEAR FOLLOWING COMPLETION OF SEEDING (THE MAINTENANCE PERIOD). PRIOR NOTIFICATION AT LEAST 10 WORKING DAYS BEFORE REQUESTED INSPECTION DATE.



440 TWO RANCH RD 2 SITE

LEGEND

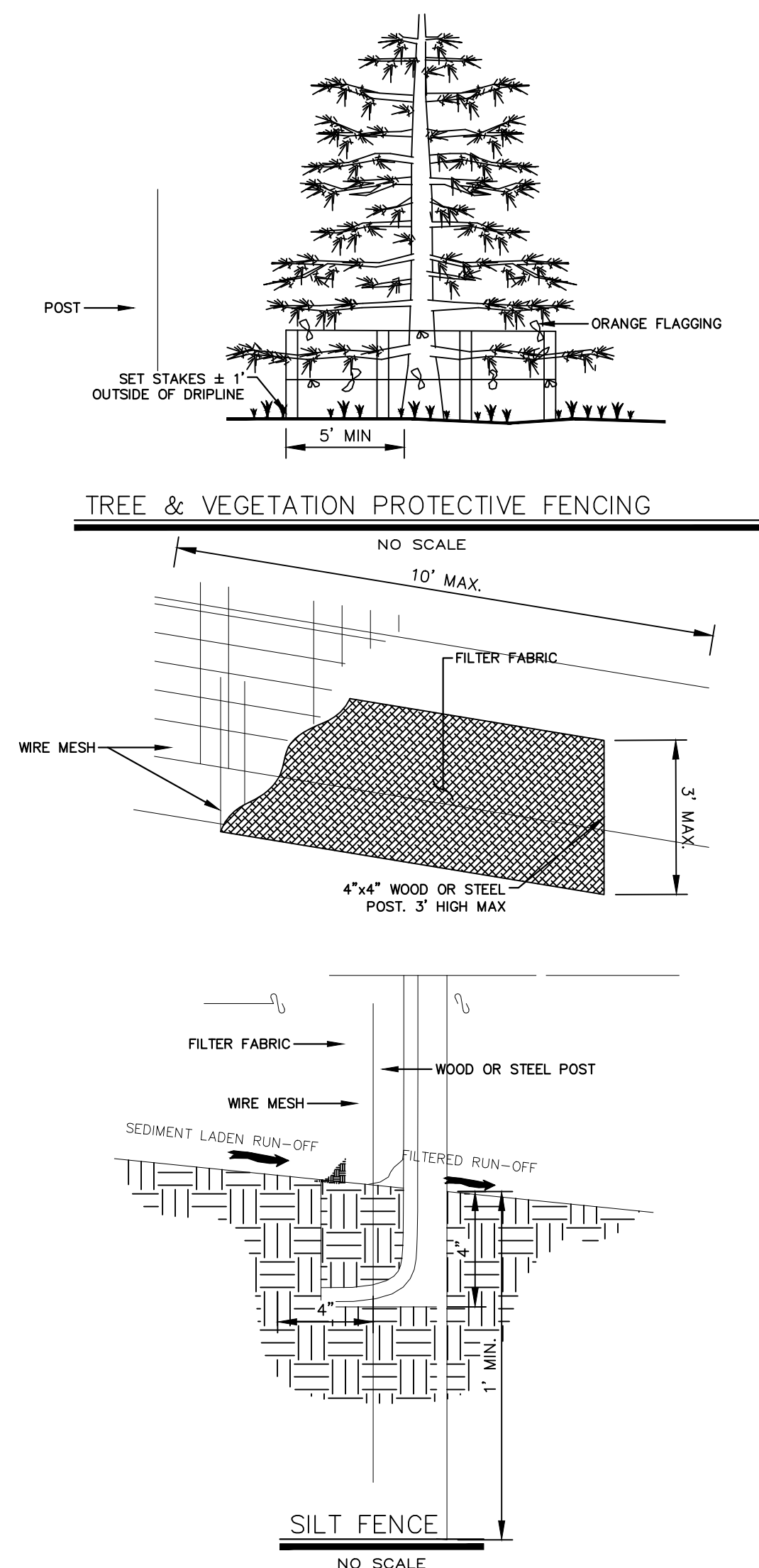
-  TEMPORARY DIVERSION CHANNEL
 K-RAIL
 SF SILT FENCE

ESTIMATED QUANTITIES

DEWATERING FOOTPRINT: 0.37 AC
TEMPORARY DEWATERING CHANNEL: 486 LF
K-RAILS: 76 LF

NOTE:

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*DEWATERING PLANS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR SCHEDULING AND CONSTRUCTION SEQUENCING.



SHEET NUMBER	GENOA PHASE IV 2025 CARSON RIVER RESTORATION PROJECTS GENOA, NEVADA	440 TWO RANCH 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN	KHA PROJECT 192407100 DATE 8/15/2025 SCALE: AS SHOWN DESIGNED BY: SG DRAWN BY: HR CHECKED BY: SG		 © 2024. KIMLEY-HORN AND ASSOCIATES, INC. 7900 RANCHARRAH PARKWAY, SUITE 100, RENO, NV 89511 PHONE: 775-453-6972 WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE	BY

Plotted By:Roofener, Haley Date:August 14, 2025 03:19:33pm File Path:K:\REN_Civil\192407200 - CVD 2025 Carson Riverbank Restoration\07 CAD\Plan sheets\22x34\Plans\C5.2 RUNNING RIVER 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN.dwg

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GENERAL DE-WATERING & TEMPORARY EROSION CONTROL PLAN NOTES

1. PLAN SHOWN IS GENERIC & WILL REQUIRE ADJUSTMENT IN FIELD BY CONTRACTOR.
2. PLAN ASSUMES WORK IS CONDUCTED AT EXTREMELY LOW FLOW CONDITIONS.
3. CONTRACTOR SHALL SATISFY HIMSELF THAT LOCATION WHERE TEMPORARY LOW-FLOW CHANNEL IS CUT WILL ALLOW ENOUGH BORROW AREA TO SATISFY FILL REQUIREMENTS OF PROJECT.
4. LOW-FLOW CHANNEL WILL BE FILLED & RESTORED TO EX. CONDITIONS.
5. IN CASE OF EMERGENCY CALL CARSON VALLEY CONSERVATION DISTRICT (RICH WILKINSON, ☎ 775-782-3661 X 3830 OR ENGINEER ☎ 775-787-7552).
6. CONTRACTOR MAY SUBMIT ALTERNATE DE-WATERING & EROSION CONTROL PLAN TO ENGINEER. SUBMITTAL SHALL BE MADE IN ADVANCE OF CONSTRUCTION ACTIVITIES FOR REVIEW & APPROVAL.
7. CONSTRUCTION SHALL BE SCHEDULED TO COINCIDE WITH PERIODS OF LOW FLOW IN THE RIVER.
8. RESTORE AREAS DISTURBED BY DE-WATERING ACTIVITIES TO PRE-CONSTRUCTION CONDITIONS.
9. ANY PASTURE FENCES DAMAGED, FAILING OR RELOCATED FOR CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO EXISTING CONDITIONS AT TOP OF BANK.
10. DUST SHALL BE CONTROLLED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND OWNER.
11. THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. TRASH WILL BE HAULED TO A LICENSED DISPOSAL FACILITY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE.
12. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
13. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION CONTROL MEASURES. CONTRACTOR SHALL PROVIDE OWNER WITH THE NAME & PHONE NUMBER OF EMERGENCY CONTACT AT THE PRE-CONSTRUCTION MEETING.
14. AFTER A RAINSTORM, ALL BMP'S AND GRADED SLOPE SURFACE PROTECTION MEASURES SHALL BE INSPECTED TO VERIFY CONTINUED SATISFACTORY OPERATION AND REPAIRED OR REPLACED IF NECESSARY.
15. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
16. FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
17. BUILT UP SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN PROPER FUNCTIONING OF THE BMP'S
18. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
19. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. THE REPORT WILL CONTAIN THE NAME OF THE INSPECTOR, MEASURES, AREAS INSPECTED, OBSERVED CONDITIONS, AND NOTE CHANGES NECESSARY.
20. REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF THEY OCCUR) TO NDEP AND THE OWNER WITHIN 24 HOURS.
21. FILTER FABRIC FENCES, IF THE FABRIC BECOMES CLOGGED, TORN, OR DEGRADES, IT SHOULD BE REPLACED. MAKE SURE THE STAKES ARE SECURELY DRIVEN IN THE GROUND AND ARE IN GOOD SHAPE (IE., NOT BENT, CRACKED, OR SPLINTERED, AND ARE REASONABLY PERPENDICULAR TO THE GROUND.) REPLACE DAMAGED STAKES.
22. SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES ONE-THIRD OF THE BARRIER HEIGHT. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.
23. NO DE-WATERING UNTIL FLOWS EXCEED 400 CFS AS READ AT THE CARSON CITY GAUGE.

GENERAL NOTES:

1. SOME TYPES OF FILTER FABRIC FENCE HAVE STAKES INCLUDED AND DO NOT REQUIRE THE MATERIALS LISTED.
2. THE FABRIC SHOULD NOT EXCEED MORE THAN 3' ABOVE THE GROUND. CUT FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID HAVING JOINTS. WHERE JOINTS ARE NECESSARY, SPLICE THE FABRIC ONLY AT A POST, WITH AT LEAST 6" OF OVERLAP, AND FASTEN BOTH ENDS SECURELY TO THE POST.
3. INSPECT PERIODICALLY AND AFTER EACH STORM. REPLACE DAMAGED FENCE.
4. CLEAN OUT THE SEDIMENT BEFORE IT REACHES 1/3 FENCE HEIGHT. DEPOSIT THE SEDIMENT WHERE IT WILL NOT ENTER A DRAINAGEWAY.

SILT FENCE INSTALLATION INSTRUCTIONS:

1. SPACE POSTS NO MORE THAN 10' APART AND DRIVE THEM AT LEAST 1" INTO THE GROUND. ALIGN THE FENCE ALONG THE SLOPE CONTOUR, CURVING IT SLIGHTLY UPHILL TO AVOID END RUNS.
2. DIG A 4"x4" TRENCH ALONG THE UPHILL SIDE OF THE POSTS.
3. FASTEN WIRE MESH TO UPHILL SIDE OF POST WITH STAPES (ON WOOD POSTS) OR WIRE (ON STEEL POSTS). EXTEND MESH TO BOTTOM OF TRENCH. (DO NOT ATTACH MESH OR FABRIC TO TREES).
4. FASTEN FILTER FABRIC TO UPHILL SIDE OF POSTS WITH STAPES OR WIRE. EXTEND FABRIC 8" INTO TRENCH.
5. BACKFILL TRENCH AND COMPACT THE SOIL.

MATERIALS:

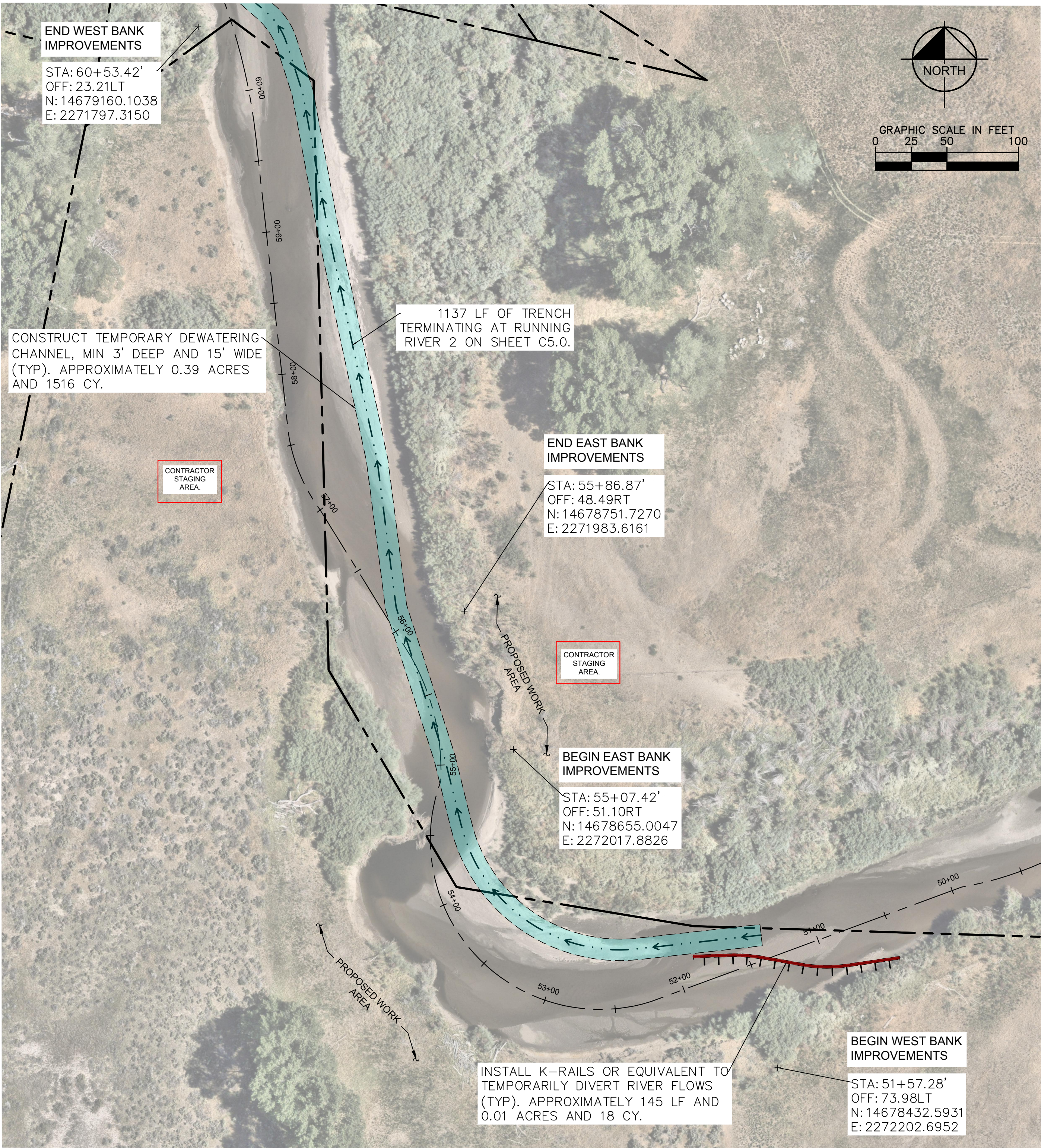
1. SILT FENCE:
 - a. FILTER FABRIC SHALL BE 42" WIDE, TENSILE STRENGTH 120 LBS., EQUIVALENT OPENING SIZE 70.
 - b. POSTS SHALL BE 5' LONG (MIN.), 4"x4" WOOD OR 1.3 LBS./FT STEEL.
 - c. WIRE MESH SHALL BE 42" WIDE, 6" MESH, 16 GAUGE WIRE (MINIMUM).
 - d. STAPLES (FOR WOOD POSTS) SHALL BE HEAVY DUTY 1" LONG, 14 GAUGE (MINIMUM).
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SPILL PREVENTION AND RESPONSE:

1. CONTRACTOR SHALL STEAM CLEAN ALL EQUIPMENT THAT WILL BE WORKING IN RIVER BED AT SHOP PRIOR TO COMMENCING CONSTRUCTION.
2. ALL EQUIPMENT SHALL BE CHECKED FOR LEAKS AND REPAIRED PRIOR TO COMMENCING CONSTRUCTION.
3. CONTRACTOR SHALL INSURE INTEGRITY OF SILT FENCE AND STRAW BALE BARRIERS DURING THE COURSE OF CONSTRUCTION.
4. CONTRACTOR SHALL USE DRIP PANS OR ABSORBENT MATS DURING FUELING AND MAINTENANCE TO PROTECT AGAINST SPILLS.
5. SPILLED PETROLEUM PRODUCTS, CONTAMINATED SOILS OR WATER, AND ACCUMULATED SEDIMENTS SHALL BE CLEANED UP AND PROPERLY DISPOSED OF AT A LICENSED LANDFILL. DISCHARGE OF SUCH MATERIALS TO THE RIVER CHANNEL OR DITCHES IS PROHIBITED.

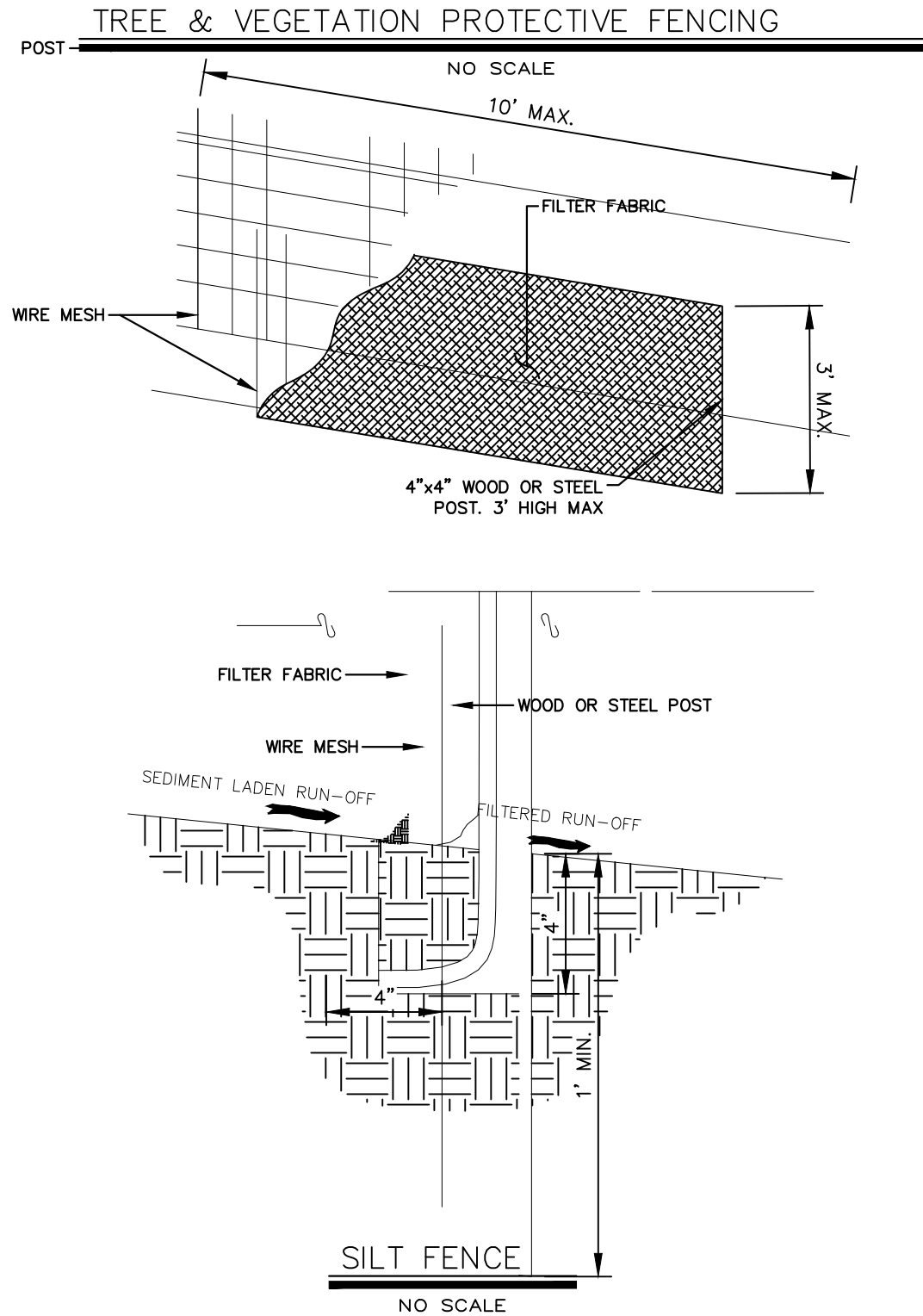
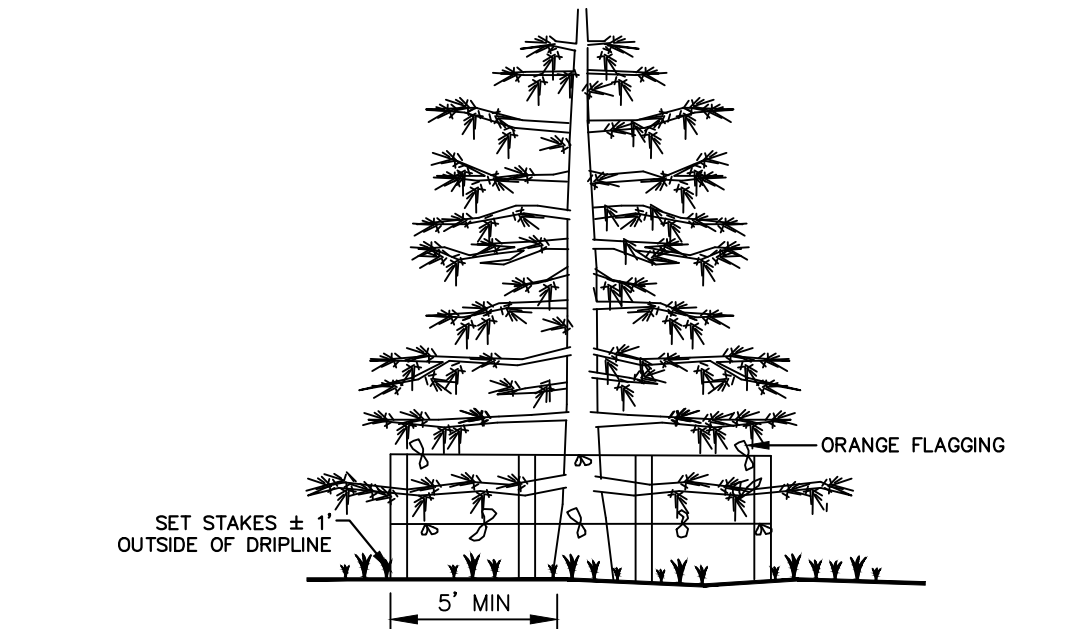
REVEGETATION:

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CARNES 2 SITE

*DEWATERING PLANS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR SCHEDULING AND CONSTRUCTION SEQUENCING.



LEGEND	
	TEMPORARY DIVERSION CHANNEL
	K-RAIL
	SF
	SILT FENCE

ESTIMATED QUANTITIES

DEWATERING FOOTPRINT: 1.17 AC
TEMPORARY DEWATERING CHANNEL: 1137 LF
K-RAILS: 145 LF

NOTE:

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REVISIONS		DATE	BY
No.			
KHA PROJECT 192407100			
DATE 8/15/2025			
SCALE: AS SHOWN			
DESIGNED BY: SG			
DRAWN BY: HR			
CHECKED BY: SG			
CARNES 2 DEWATERING & TEMPORARY EROSION CONTROL PLAN			
GENOA PHASE IV 2025 CARSON RIVER RESTORATION PROJECTS GENOA, NEVADA			
SHEET NUMBER C5.1			

Kimley»Horn

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PHONE: 775-453-6972
WWW.KIMLEY-HORN.COM



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MATERIALS:

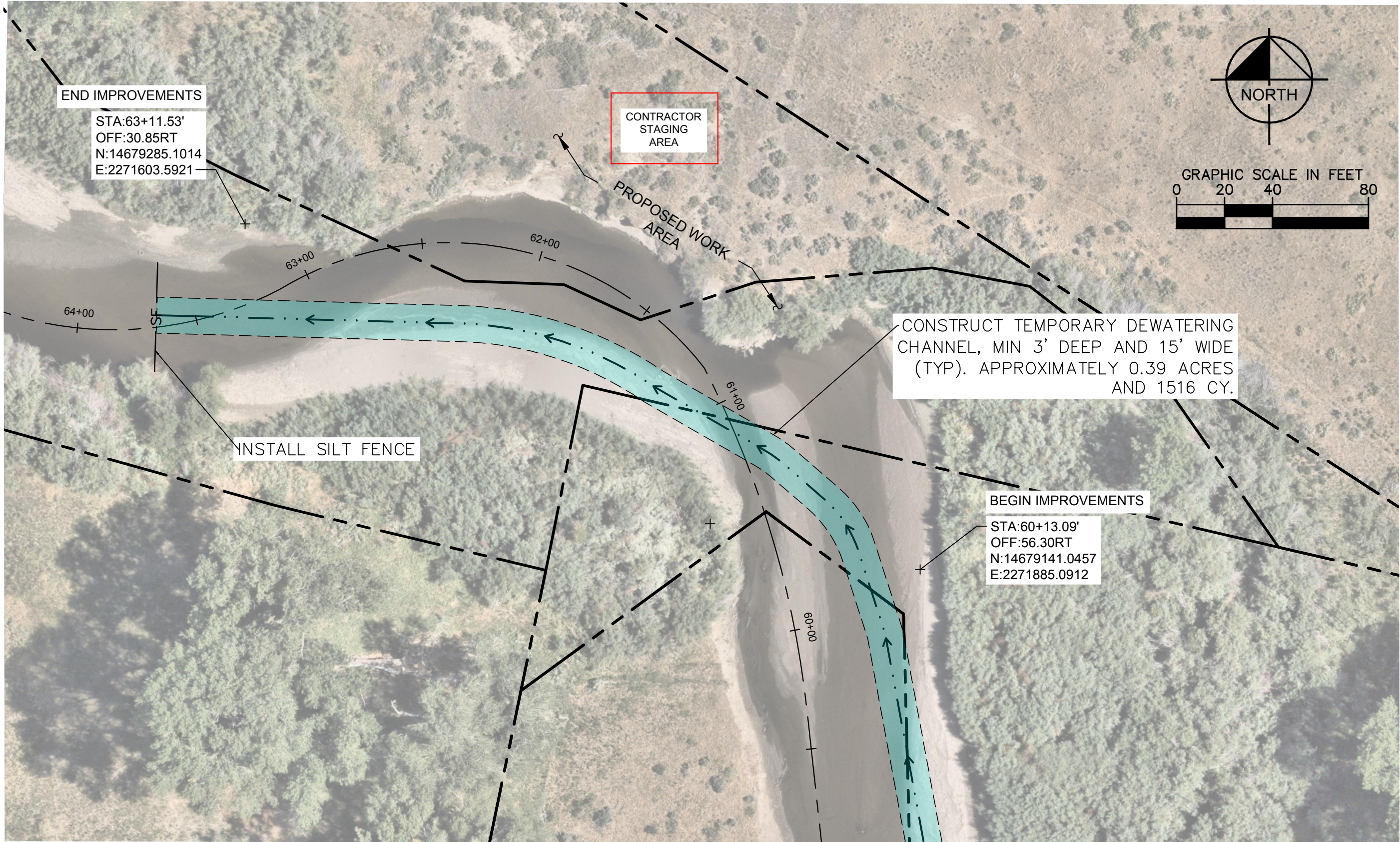
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RUNNING RIVER 2 SITE

ESTIMATED QUANTITIES

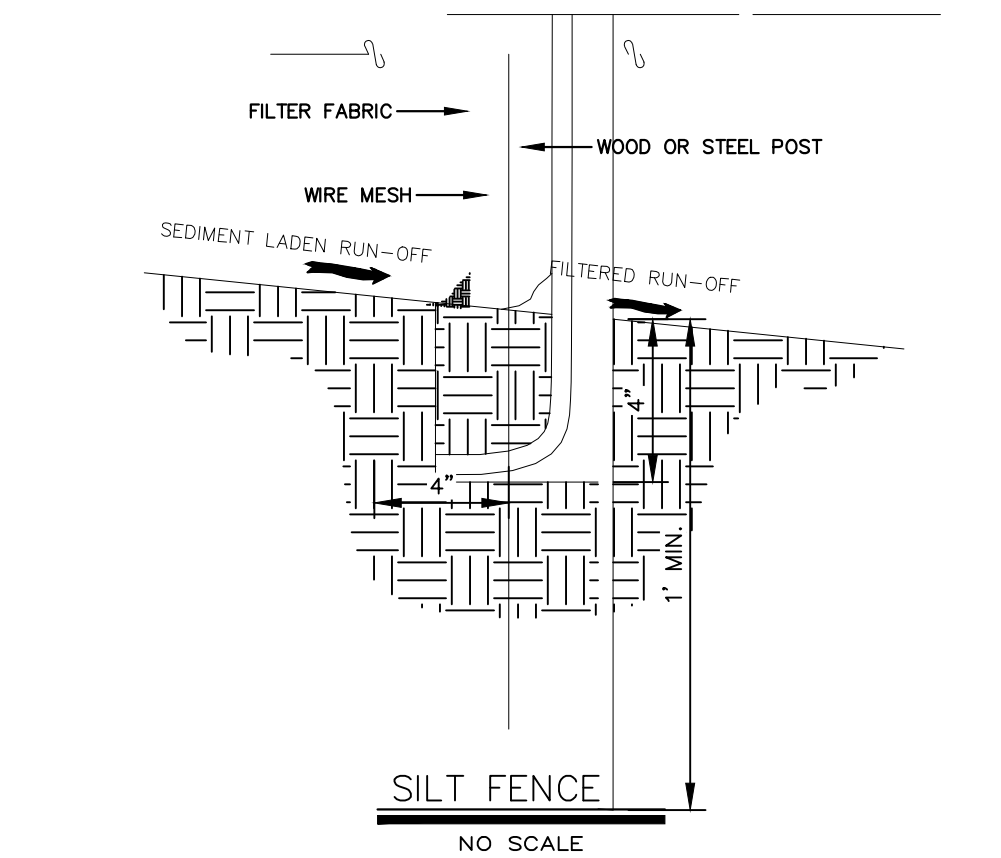
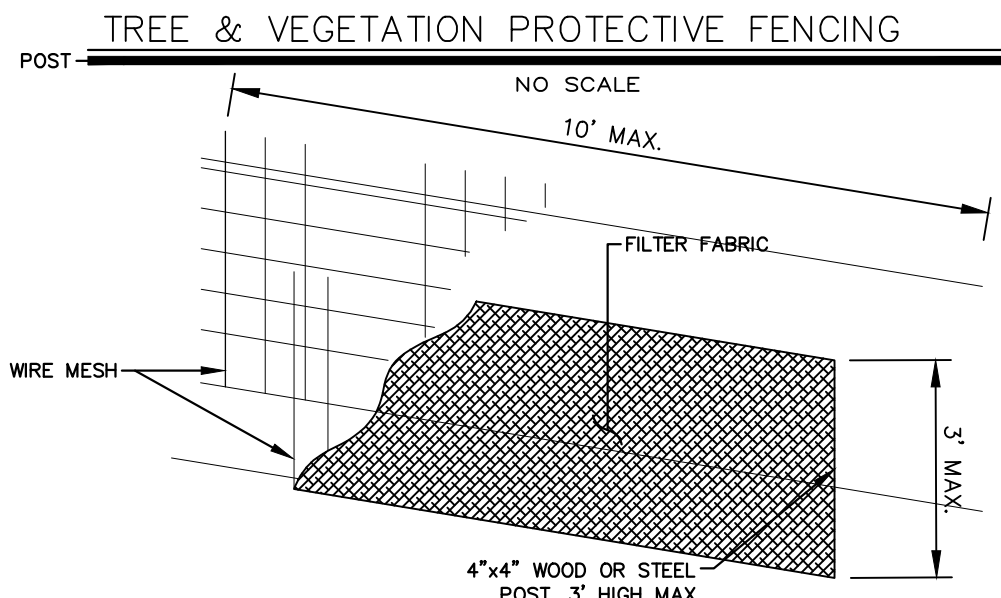
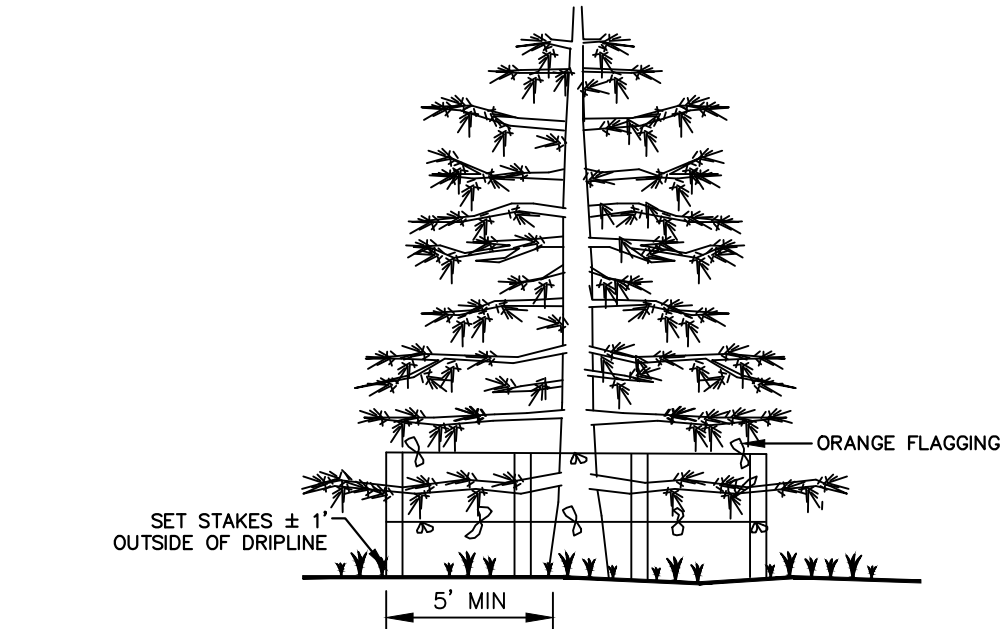
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TEMPORARY DEWATERING CHANNEL: 1137 LF
K-RAILS: 145 LF

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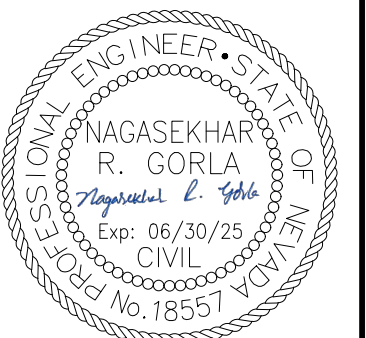
LEGEND	
	TEMPORARY DIVERSION CHANNEL
	K-RAIL
	SILT FENCE

*DEWATERING PLANS ARE SUBJECT TO CHANGE BASED ON CONTRACTOR SCHEDULING AND CONSTRUCTION SEQUENCING.



NO.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
192407100	8/15/2025	AS SHOWN	SG	HR	SG

RUNNING RIVER 2
DEWATERING &
TEMPORARY EROSION
CONTROL PLAN

GENOA PHASE IV 2025
CARSON RIVER
RESTORATION PROJECTS
GENOA, NEVADA

SHEET NUMBER
C5.2