

VILLA CREEK ESTUARY ENHANCEMENT

SAN LUIS OBISPO COUNTY, CA

GENERAL NOTES, TERMS, & CONDITIONS:

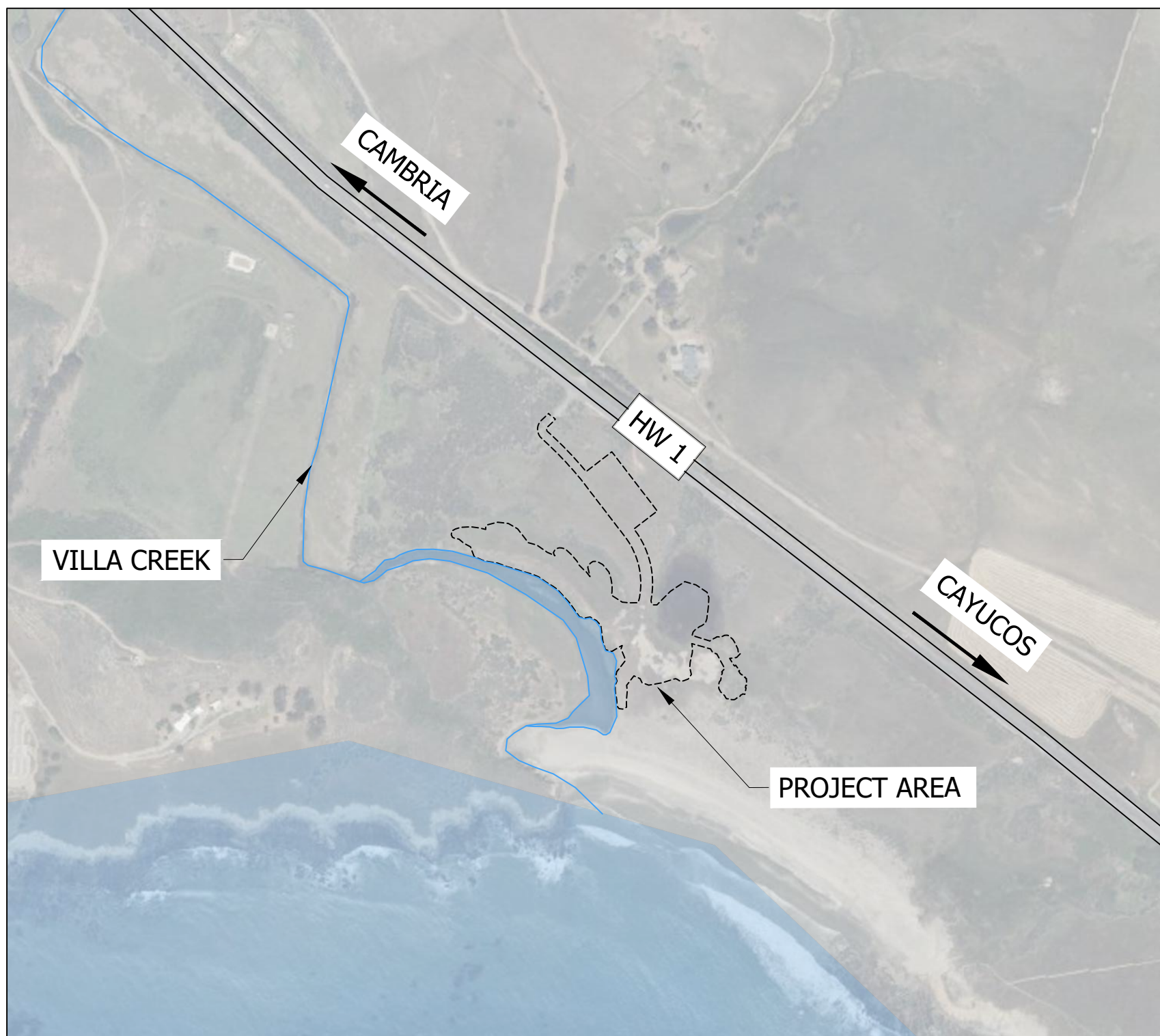
- DESIGN INTENT. THESE DRAWINGS REPRESENT THE GENERAL DESIGN INTENT TO BE IMPLEMENTED AND CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS SHOWN ON THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE PROJECT MANAGER FOR ANY CLARIFICATIONS OR FURTHER DETAILS NECESSARY TO ACCOMMODATE ACTUAL SITE CONDITIONS. ANY DEVIATION FROM THESE PLANS WITHOUT THE STATE PARKS REPRESENTATIVE APPROVAL ARE AT THE CONTRACTOR'S OWN RISK AND EXPENSE. NOTIFY PROJECT MANAGER IMMEDIATELY OF ANY UNEXPECTED AND CHANGED CONDITIONS, SAFETY HAZARDS, AND ENVIRONMENTAL PROBLEMS ENCOUNTERED.
2. JOB SITE CONDITIONS AND CONTRACTOR RESPONSIBILITY. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND ALL ENVIRONMENTAL PROTECTION ELEMENTS, WHETHER SHOWN ON THESE DRAWINGS OR NOT. CONTRACTOR SHALL FOLLOW ALL APPLICABLE CONSTRUCTION AND SAFETY REGULATIONS. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE STATE PARKS OR THE ENGINEER (STILLWATER SCIENCES) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE STATE PARKS OR ENGINEER.
3. DAMAGE. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO EXISTING PUBLIC AND PRIVATE PROPERTY, INCLUDING NATIVE TREES AND SHRUBS, AND OTHER PROPERTY IMPROVEMENTS. IF CONTRACTOR CAUSES DAMAGES TO SUCH ITEMS, HE SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT IN LIKE NUMBER, KIND, CONDITION, AND SIZE. ANY SUCH COST MAY BE DEDUCTED BY OWNER FROM MONIES DUE CONTRACTOR UNDER THIS CONTRACT.
4. LIMITS OF WORK, ACCESS, STAGING AND MOBILIZATION AREAS. THE APPROXIMATE LIMITS OF WORK ARE SHOWN ON THE DRAWINGS. EXACT LIMITS OF WORK, POINTS OF INGRESS-EGRESS, CREEK CHANNEL ACCESS, MOBILIZATION, STAGING, AND WORK AREAS WILL BE FLAGGED IN THE FIELD BY THE ENGINEER. EQUIPMENT MAINTENANCE AND FUELING MUST OCCUR OUTSIDE OF THE CHANNEL AREA AS DESCRIBED IN THE ENVIRONMENTAL PERMITS FOR THE PROJECT.
5. EQUIPMENT CONTAINMENT. ALL HEAVY EQUIPMENT MUST HAVE A SUPPLY OF SORBENT PADS AVAILABLE TO CLEAN-UP GREASE, OIL, OR FUEL THAT DRIPS OR SPILLS ONTO THE GROUND. USED PADS ARE TO BE DISPOSED OF PROPERLY AT CONTRACTOR'S EXPENSE.
6. EARTHWORK QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK, INCLUDING GRADING, PROVISION AND PLACEMENT OF ROCK MEETING SIZE LIMITS, AS SHOWN ON DRAWINGS, AND DISPOSAL OF ALL EXCESS SOIL AND RUBBLE. EARTHWORK QUANTITIES, INCLUDING GRADING, PLACED ROCK RIP-RAP AND OFF-HAUL QUANTITY ESTIMATES PROVIDED BY THE ENGINEER ARE ESTIMATES ONLY. STATE PARKS AND ENGINEER DO NOT, EXPRESSLY OR OTHERWISE BY IMPLICATION, EXTEND ANY WARRANTY TO EARTHWORK CALCULATIONS
7. PERMITS. THE FOLLOWING PERMITS ARE REQUIRED FOR THIS PROJECT, THE CONTRACTOR SHALL BE GIVEN COPIES OF ALL THE PERMITS, SHALL BECOME FAMILIAR WITH THE PERMIT REQUIREMENTS, AND SHALL BE RESPONSIBLE FOR ADHERENCE TO AND CONFORMANCE WITH ALL PERMIT CONDITIONS.

SEC. 404 PERMIT ISSUED BY US ARMY CORPS OF ENGINEERS
1601/1603 STREAMBED ALTERATION AGREEMENT ISSUED BY CA DEPT. FISH & WILDLIFE
WATER QUALITY CERTIFICATION, BY NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD
US FISH AND WILDLIFE SERVICE CONSULTATION AND IMPLEMENTATION RECOMMENDATIONS
NATIONAL MARINE FISHERIES SERVICE CONSULTATION AND IMPLEMENTATION RECOMMENDATIONS.
8. AREAS TO BE GRADED SHALL BE CLEARED OF ALL VEGETATION INCLUDING ROOTS AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL, THEN SCARIFIED TO A DEPTH OF 6 INCHES PRIOR TO PLACING OF ANY FILL. NATIVE PLANTS SHALL BE REMOVED OPPORTUNISTICALLY DURING CONSTRUCTION USING HEAVY EQUIPMENT AND REPLANTED SIMULTANEOUSLY OR STOCKPILED FOR LATER PLACEMENT. SALVAGE OF PLANT ROOT DEPTH AND REPLANTING MAY REQUIRE CONTRACTOR TO WORK IN TWO AREAS SIMULTANEOUSLY IF UNABLE TO STOCKPILE.
9. AREAS WITH EXISTING SLOPES WHICH ARE TO RECEIVE FILL MATERIAL SHALL BE KEYED AND BENCHED.
10. FILL MATERIAL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED BY AN APPROVED METHOD. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY 1957 ASTM D - 1557 - 91 MODIFIED PROCTOR (AASHTO) TEST OR SIMILAR APPROVED METHODS.
11. CUT SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL. FILL AND COMBINATION FILL AND CUT SLOPES SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL. SLOPES OVER THREE FEET IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED PERENNIAL OR TREATED WITH EQUALLY APPROVED EROSION CONTROL MEASURES PRIOR TO FINAL INSPECTION.
12. BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES: ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS MUST BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED AS A SOLID WASTE. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED WASTE RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. SEDIMENTS AND OTHER MATERIAL MAY NOT BE TRACKED FROM TO THE SITE BY VEHICLE TRAFFIC.
13. CONTRACTOR MUST COORDINATE WITH BIOLOGICAL STAFF FOR TRAINING AND SURVEYS PRIOR TO WORK.

VICINITY MAP



PROJECT LOCATION MAP



Sheet List Table	
Sheet Number	Sheet Title
1	TITLE SHEET
2	EXISTING CONDITIONS & SURVEY CONTROL POINTS
3	STAGING, ACCESS & SITE PROTECTION
4	OVERVIEW
5	HORIZONTAL CONTROL PLAN AND TABLES
6	ESTUARY INUNDATION ENHANCEMENT GRADING
7	BACKWATER WETLAND - PLAN & PROFILE
8	BACKWATER WETLAND - SECTIONS
9	POND RECONNECTION - PLAN & PROFILE
10	POND RECONNECTION - SECTIONS
11	HABITAT ENAHANCEMENT FEATURES
12	PLANTING PLAN
13	DETAILS - 1
14	DETAILS - 2

POINTS OF CONTACT:

LANDOWNER REPRESENTATIVE
KATIE DREXHAGE (CRP)
(805) 712-4768

BIOLOGICAL MONITORING:
BRAD COLLINS (CRP)
(805) 458-7963

PROJECT ENGINEERS:
SCOTT SMITH P.E. (STILLWATER)
(310) 847- 0354

JOEL MONSCHKE P.E. (STILLWATER)
(510) 848-8098

EARTHWORK ESTIMATES:

CUT: 14,616 CY

IMPORT:
20 TONS BALLAST ROCK (1- TO 3-TON STONES)
7 PIECES LARGE WOOD

EXPORT: 14,616 CUBIC YARDS

ABBREVIATIONS AND SYMBOLS:

- | | |
|---|---------------------------------------|
| (E) | EXISTING |
| (P) | PROPOSED |
| (PIP) | PROTECT IN PLACE |
|  | EXISTING TREE (SURVEYED) |
|  | EXISTING TREE (APPROXIMATE LOCATION) |
|  | EXISTING POOL (APPROXIMATE LOCATION) |
|  | LARGE WOOD FEATURE NUMBER |
|  | INDIVIDUAL LOG OR ROOTWAD DESIGNATION |
|  | FIGURE # ON SHEET |
|  | SHEET # |

VILLA CREEK ESTUARY ENHANCEMENT

SAN LUIS OBISPO COUNTY, CA

Stillwater Sciences

1203 MAIN STREET
MORRO BAY, CA 93442

P: (805) 570-7499

REVISIONS

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 714.00

SCALE: AS NOTED

DATE: 2/12/26

DESIGN: EB/CL/SAS

DRAWN: CL/JE/GD

CHECKED: JM
APPROVED: JM



TITLE SHEET

SHEET 1 OF 14

APN: 046-151-007

CALIFORNIA STATE PARKS
APN: 046-161-008

APN: 046-161-013

VILLA CREEK ESTUARY
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SAN LUIS OBISPO COUNTY, CA

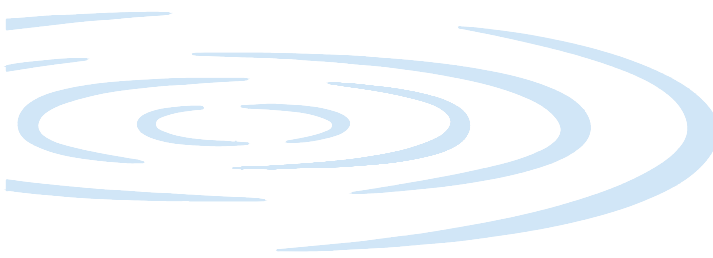
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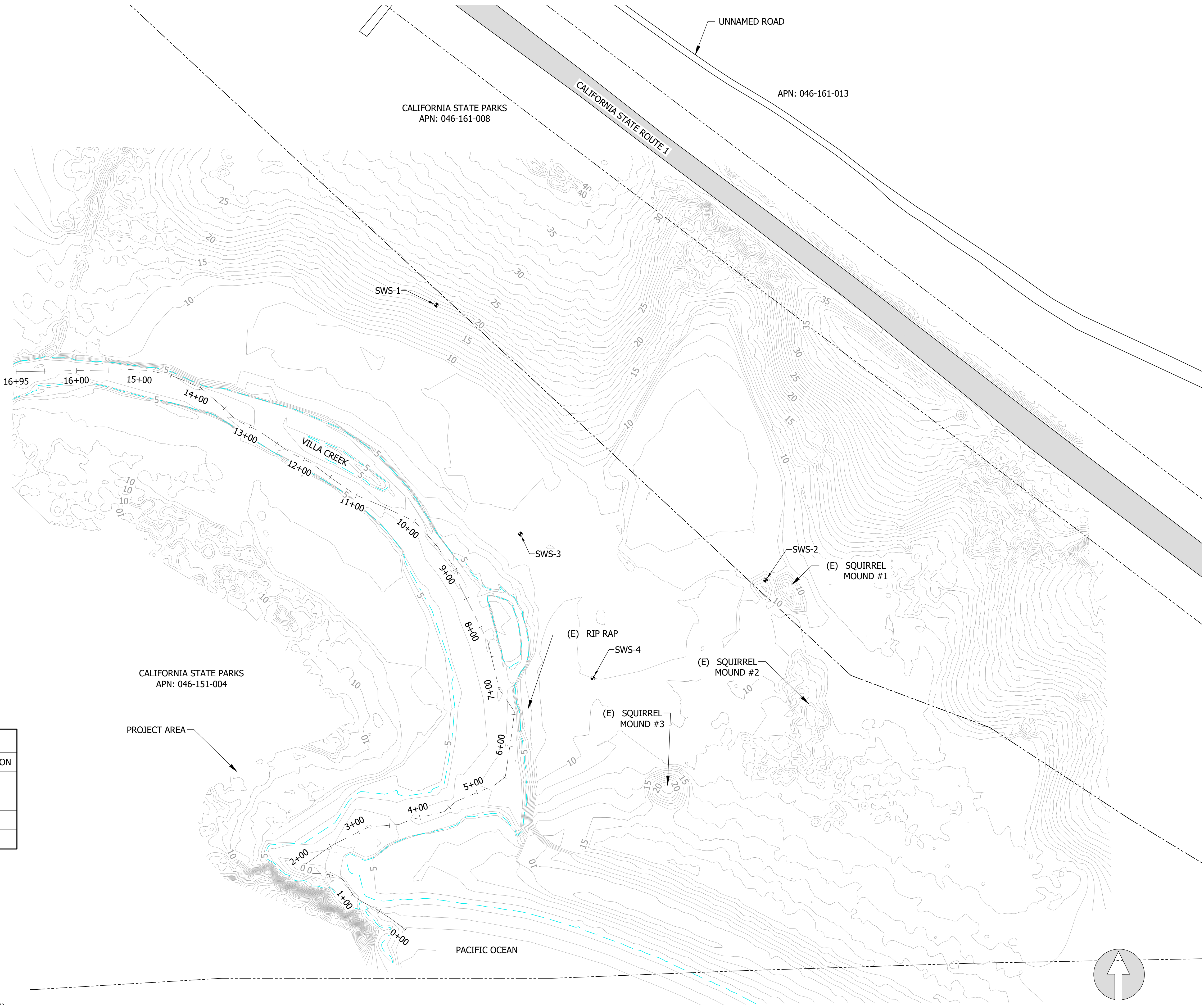
EXISTING CONDITIONS &
SURVEY CONTROL POINTS

SHEET 2 OF 14

CONTROL POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
SWS-1	2367789.0310	5677245.7510	19.21
SWS-2	2367355.7750	5677764.0950	11.00
SWS-3	2367428.5840	5677378.0930	8.67
SWS-4	2367201.7640	5677492.2040	9.00

LEGEND

- PROPERTY BOUNDARIES
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- ◆ SWS-4 CONTROL POINT
- ROAD
- ORDINARY HIGH WATER MARK (ELEV. 4.5')



0 40 80 160
FEET
SCALE: 1" = 80'

VILLA CREEK ESTUARY
ENHANCEMENT

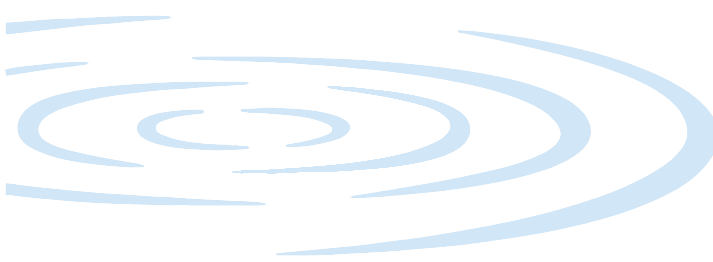
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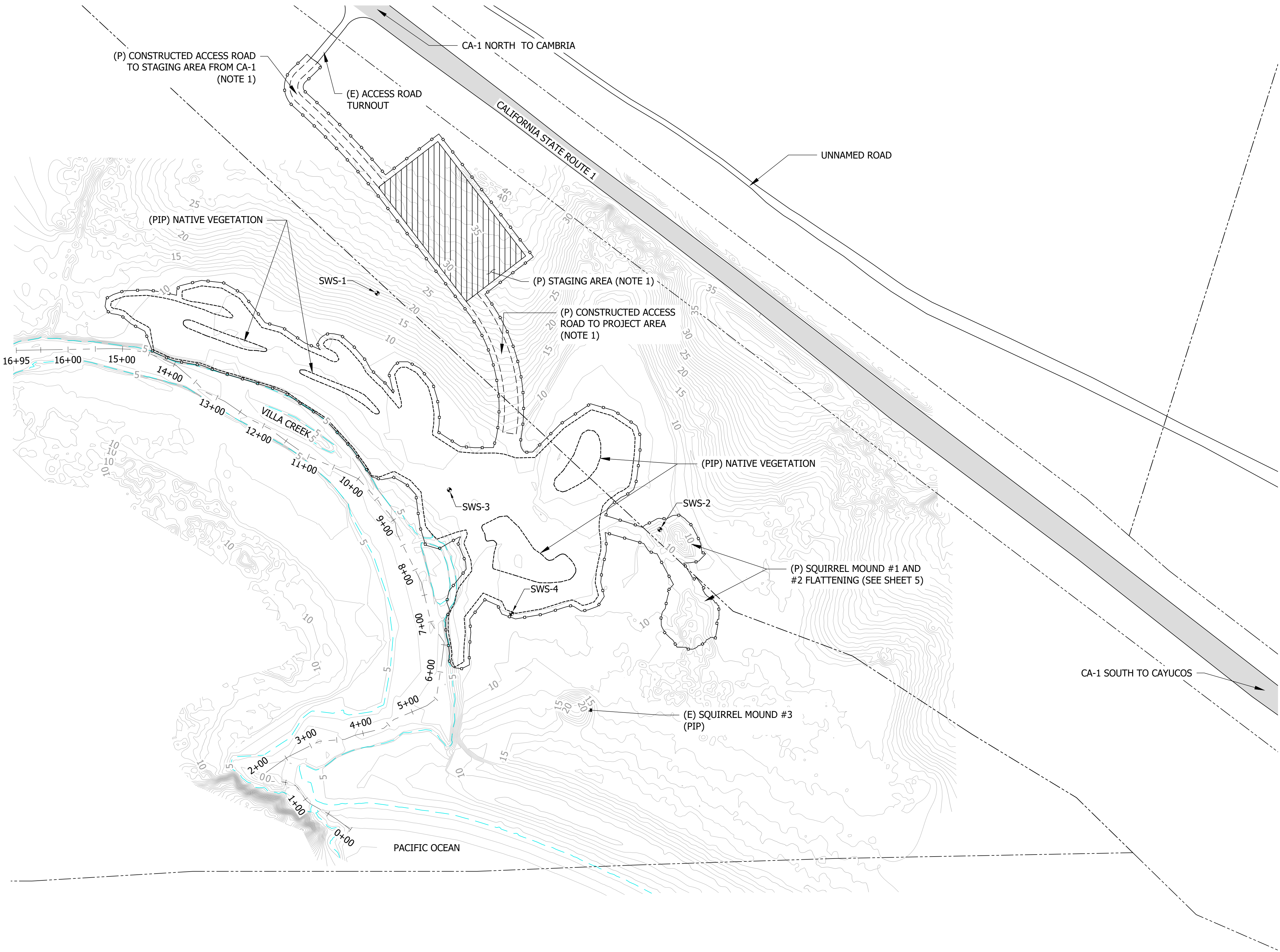
CHECKED: JM

APPROVED: JM



STAGING, ACCESS & SITE
PROTECTION

SHEET 3 OF 14

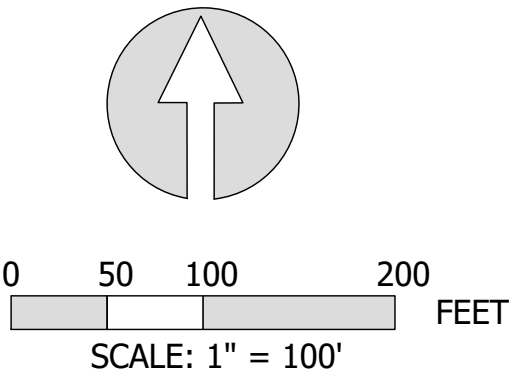


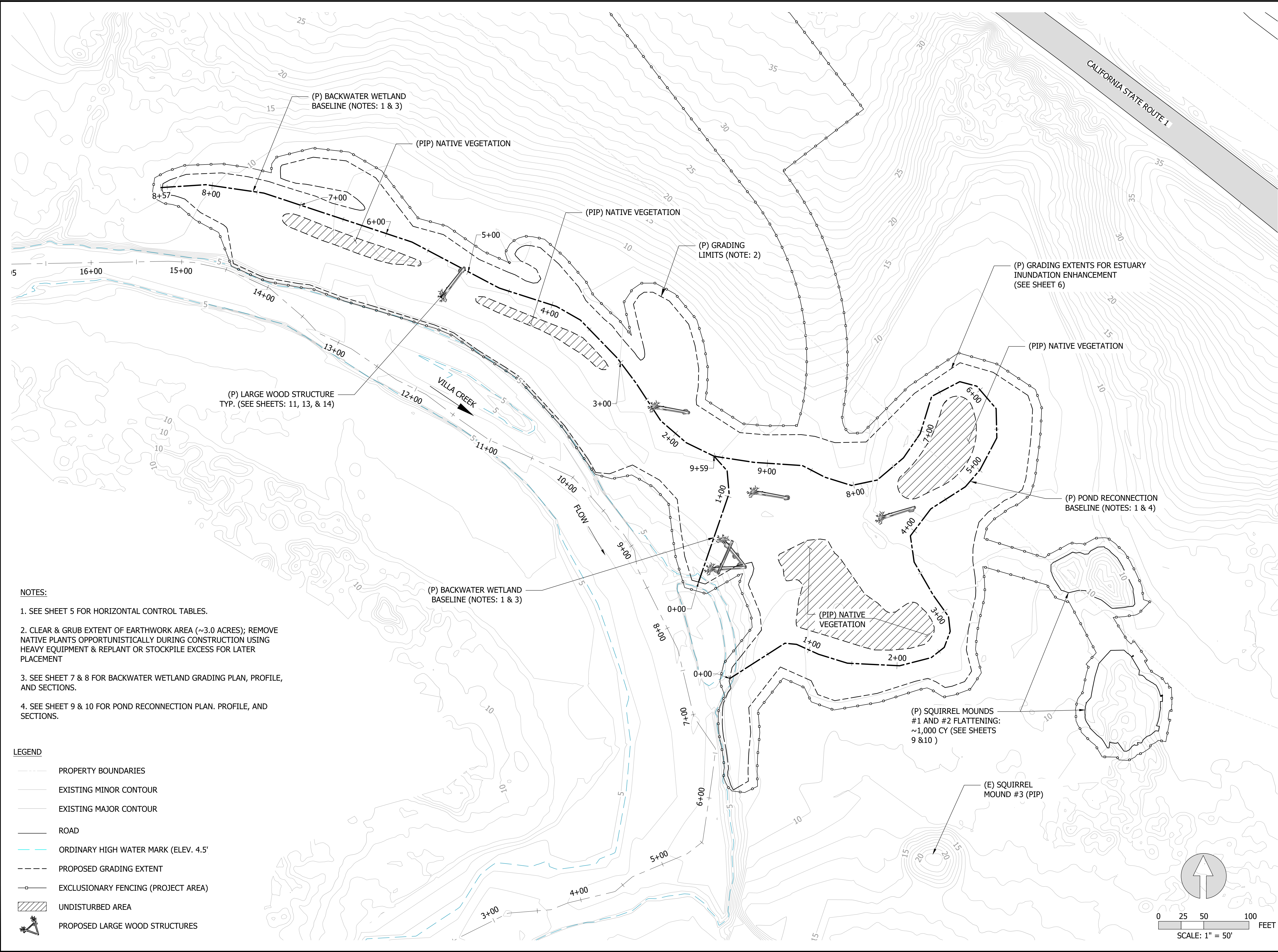
LEGEND

- PROPERTY BOUNDARIES
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- SWS-4 CONTROL POINT
- ROAD
- ORDINARY HIGH WATER MARK (ELEV. 4.5')
- PROPOSED GRADING EXTENT
- EXCLUSIONARY FENCING

NOTES:

- STAGING AND ACCESS AREA TO BE RE-SEEDED POST CONSTRUCTION (SEE SHEET 12 FOR SEEDING TABLE).





NOTES:

1. SEE SHEET 5 FOR HORIZONTAL CONTROL TABLES.
2. CLEAR & GRUB EXTENT OF EARTHWORK AREA (~3.0 ACRES); REMOVE NATIVE PLANTS OPPORTUNISTICALLY DURING CONSTRUCTION USING HEAVY EQUIPMENT & REPLANT OR STOCKPILE EXCESS FOR LATER PLACEMENT
3. SEE SHEET 7 & 8 FOR BACKWATER WETLAND GRADING PLAN, PROFILE, AND SECTIONS.
4. SEE SHEET 9 & 10 FOR POND RECONNECTION PLAN. PROFILE, AND SECTIONS.

LEGEND

- PROPERTY BOUNDARIES
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- ROAD
- ORDINARY HIGH WATER MARK (ELEV. 4.5')
- PROPOSED GRADING EXTENT
- EXCLUSIONARY FENCING (PROJECT AREA)
- UNDISTURBED AREA
- PROPOSED LARGE WOOD STRUCTURES

VILLA CREEK ESTUARY
ENHANCEMENT

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OVERVIEW

SHEET 4 OF 14

REGISTERED PROFESSIONAL ENGINEER
J. MONSIEUR
CIVIL
STATE OF CALIFORNIA
EXP. 9/16

0 25 50 100

FEET

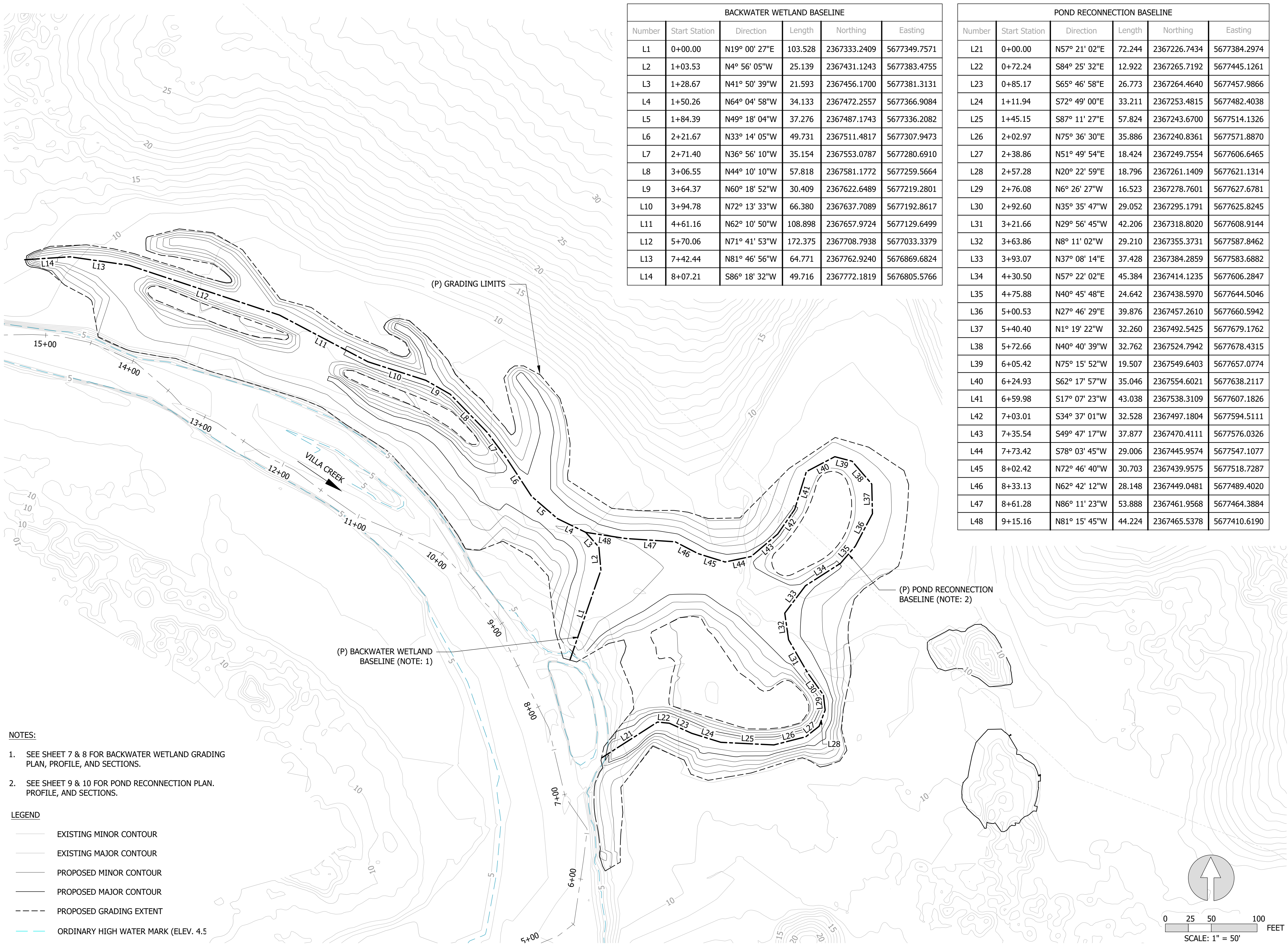
SCALE: 1" = 50'

LAST SAVED: 12/29/2025

LAST DATE: 2/12/2026

LAST PLOT: STILLWATER-GRVSCALE-245

LAST PLOT: STILLWATER-GRVSCALE-245



NOTES:

- SEE SHEET 7 & 8 FOR BACKWATER WETLAND GRADING PLAN, PROFILE, AND SECTIONS.
- SEE SHEET 9 & 10 FOR POND RECONNECTION PLAN, PROFILE, AND SECTIONS.

LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED GRADING EXTENT
- ORDINARY HIGH WATER MARK (ELEV. 4.5)

BACKWATER WETLAND BASELINE					
Number	Start Station	Direction	Length	Northing	Easting
L1	0+00.00	N19° 00' 27"E	103.528	2367333.2409	5677349.7571
L2	1+03.53	N4° 56' 05"W	25.139	2367431.1243	5677383.4755
L3	1+28.67	N41° 50' 39"W	21.593	2367456.1700	5677381.3131
L4	1+50.26	N64° 04' 58"W	34.133	2367472.2557	5677366.9084
L5	1+84.39	N49° 18' 04"W	37.276	2367487.1743	5677336.2082
L6	2+21.67	N33° 14' 05"W	49.731	2367511.4817	5677307.9473
L7	2+71.40	N36° 56' 10"W	35.154	2367553.0787	5677280.6910
L8	3+06.55	N44° 10' 10"W	57.818	2367581.1772	5677259.5664
L9	3+64.37	N60° 18' 52"W	30.409	2367622.6489	5677219.2801
L10	3+94.78	N72° 13' 33"W	66.380	2367637.7089	5677192.8617
L11	4+61.16	N62° 10' 50"W	108.898	2367657.9724	5677129.6499
L12	5+70.06	N71° 41' 53"W	172.375	2367708.7938	5677033.3379
L13	7+42.44	N81° 46' 56"W	64.771	2367762.9240	5676869.6824
L14	8+07.21	S86° 18' 32"W	49.716	2367772.1819	5676805.5766

POND RECONNECTION BASELINE					
Number	Start Station	Direction	Length	Northing	Easting
L21	0+00.00	N57° 21' 02"E	72.244	2367226.7434	5677384.2974
L22	0+72.24	S84° 25' 32"E	12.922	2367265.7192	5677445.1261
L23	0+85.17	S65° 46' 58"E	26.773	2367264.4640	5677457.9866
L24	1+11.94	S72° 49' 00"E	33.211	2367253.4815	5677482.4038
L25	1+45.15	S87° 11' 27"E	57.824	2367243.6700	5677514.1326
L26	2+02.97	N75° 36' 30"E	35.886	2367240.8361	5677571.8870
L27	2+38.86	N51° 49' 54"E	18.424	2367249.7554	5677606.6465
L28	2+57.28	N20° 25' 59"E	18.796	2367261.1409	5677621.1314
L29	2+76.08	N6° 26' 27"W	16.523	2367278.7601	5677627.6781
L30	2+92.60	N35° 35' 47"W	29.052	2367295.1791	5677625.8245
L31	3+21.66	N29° 56' 45"W	42.206	2367318.8020	5677608.9144
L32	3+63.86	N8° 11' 02"W	29.210	2367355.3731	5677587.8462
L33	3+93.07	N37° 08' 14"E	37.428	2367384.2859	5677583.6882
L34	4+30.50	N57° 22' 02"E	45.384	2367414.1235	5677606.2847
L35	4+75.88	N40° 45' 48"E	24.642	2367438.5970	5677644.5046
L36	5+00.53	N27° 46' 29"E	39.876	2367457.2610	5677660.5942
L37	5+40.40	N1° 19' 22"W	32.260	2367492.5425	5677679.1762
L38	5+72.66	N40° 40' 39"W	32.762	2367524.7942	5677678.4315
L39	6+05.42	N75° 15' 52"W	19.507	2367549.6403	5677657.0774
L40	6+24.93	S62° 17' 57"W	35.046	2367554.6021	5677638.2117
L41	6+59.98	S17° 07' 23"W	43.038	2367538.3109	5677607.1826
L42	7+03.01	S34° 37' 01"W	32.528	2367497.1804	5677594.5111
L43	7+35.54	S49° 47' 17"W	37.877	2367470.4111	5677576.0326
L44	7+73.42	S78° 03' 45"W	29.006	2367445.9574	5677547.1077
L45	8+02.42	N72° 46' 40"W	30.703	2367439.9575	5677518.7287
L46	8+33.13	N62° 42' 12"W	28.148	2367449.0481	5677489.4020
L47	8+61.28	N86° 11' 23"W	53.888	2367461.9568	5677464.3884
L48	9+15.16	N81° 15' 45"W	44.224	2367465.5378	5677410.6190

VILLA CREEK ESTUARY
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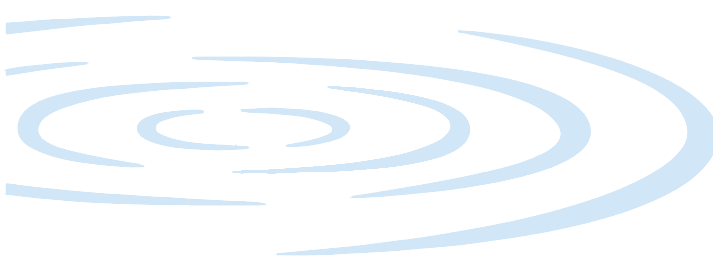
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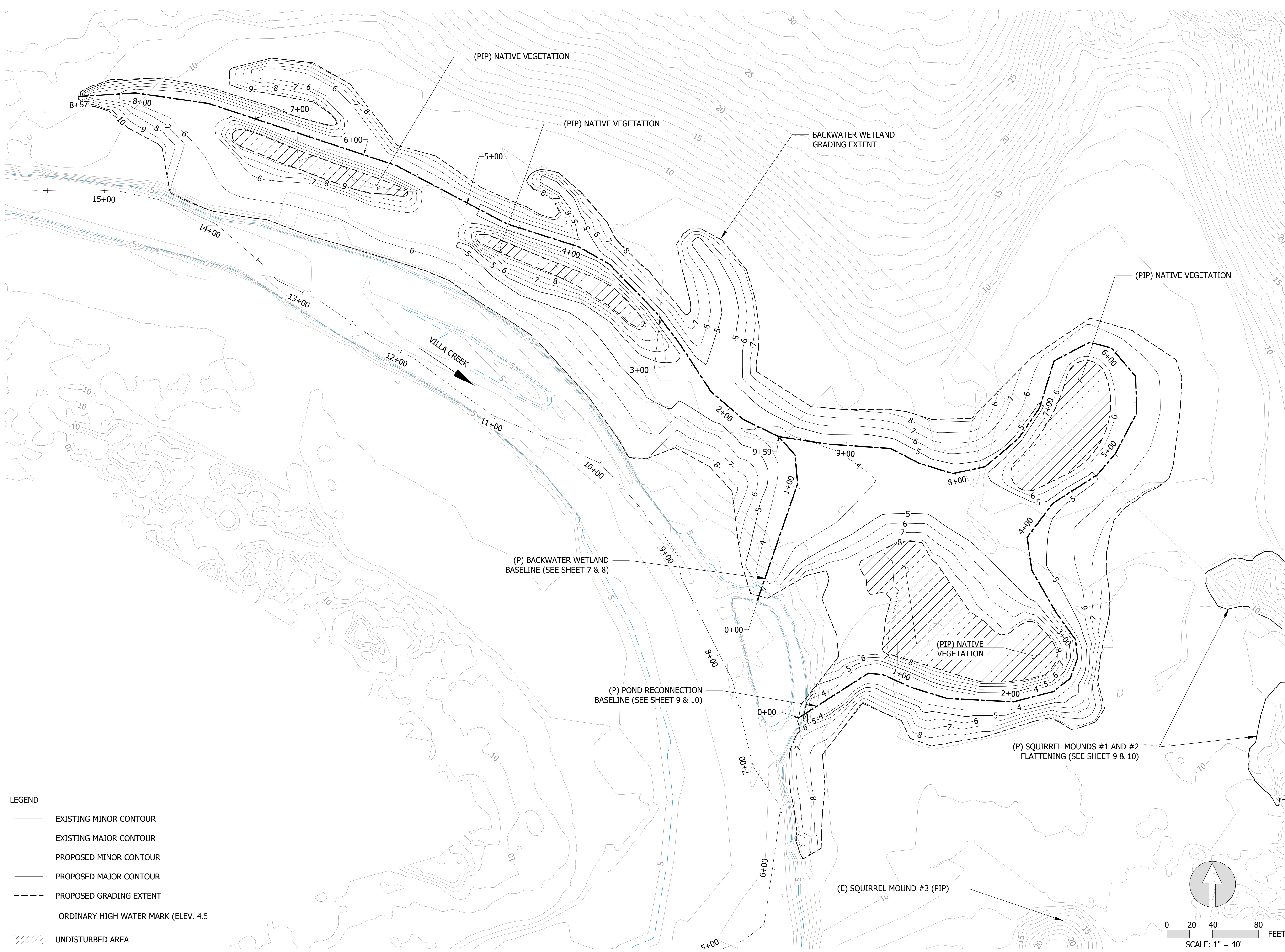


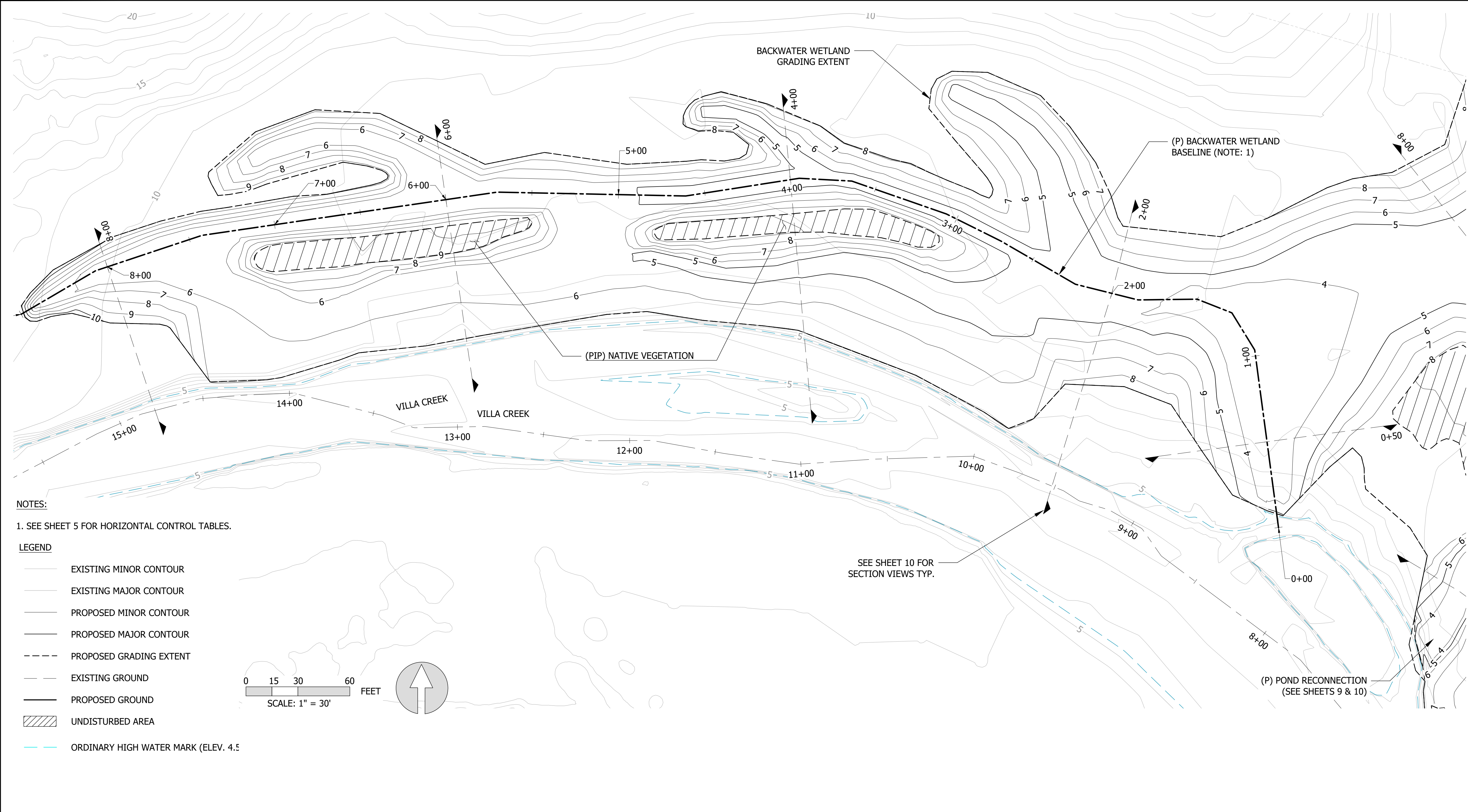
HORIZONTAL CONTROL
PLAN AND TABLES

SHEET 5 OF 14

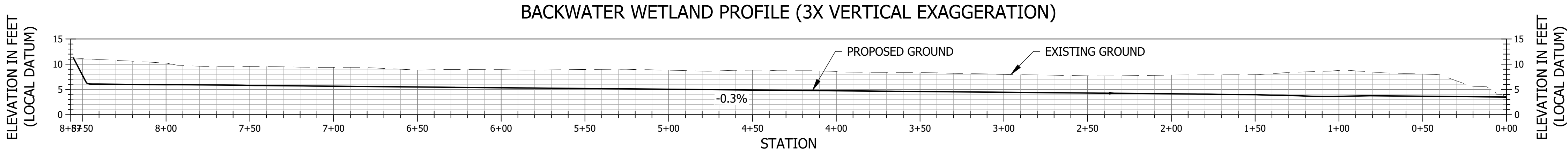
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SHEET 6 OF 14





- NOTES:
1. SEE SHEET 5 FOR HORIZONTAL CONTROL TABLES.
- LEGEND
- EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED GRADING EXTENT
 - EXISTING GROUND
 - PROPOSED GROUND
 - UNDISTURBED AREA
 - ORDINARY HIGH WATER MARK (ELEV. 4.5)



VILLA CREEK ESTUARY
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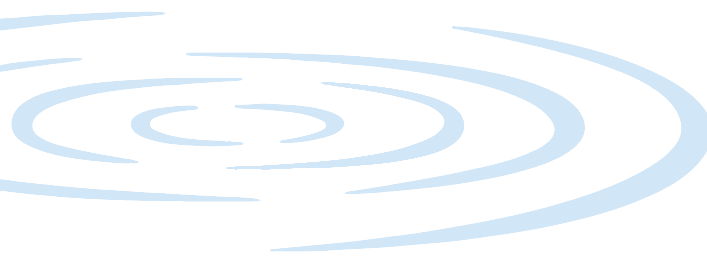
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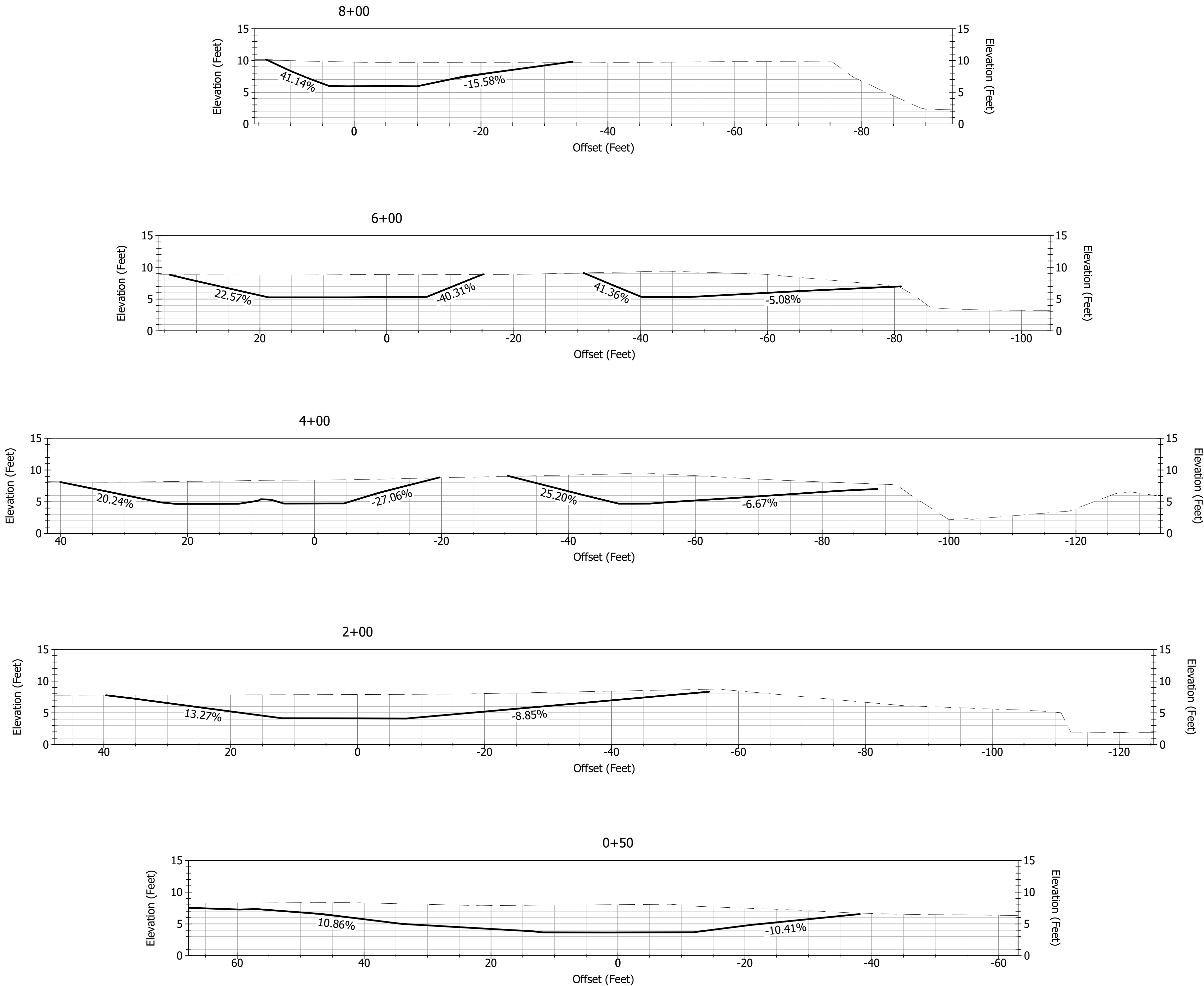
BACKWATER WETLAND -
PLAN & PROFILE

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LAST SAVED: 2/12/2026 PLOT DATE: 2/12/2026 PLOT STYLE: STILLWATER-ORANGESCALE.ctb
IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ALWAYS ACCORDING

LEGEND

- EXISTING GROUND
- PROPOSED GROUND

BACKWATER WETLAND SECTIONS (NO VERTICAL EXAGGERATION)



VILLA CREEK ESTUARY
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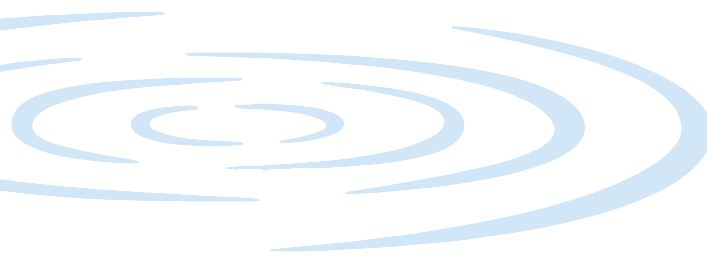
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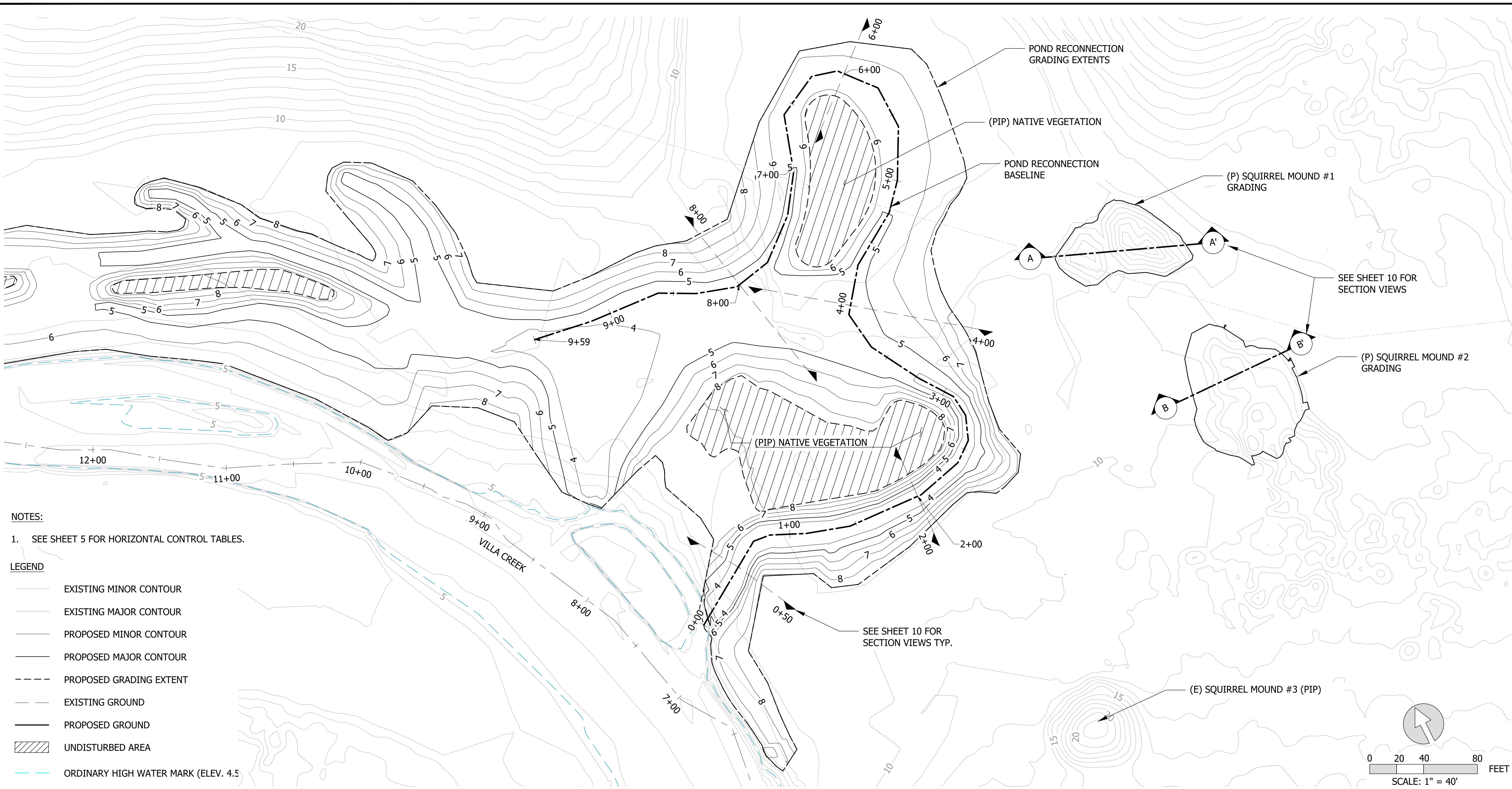
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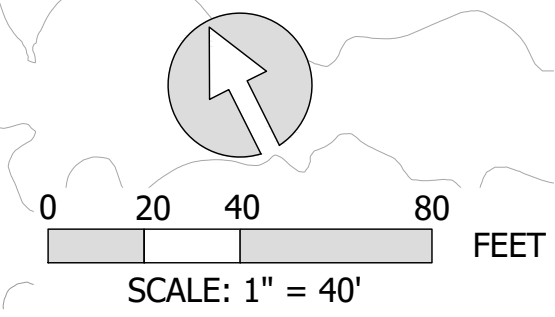
BACKWATER WETLAND -
SECTIONS

SHEET 8 OF 14

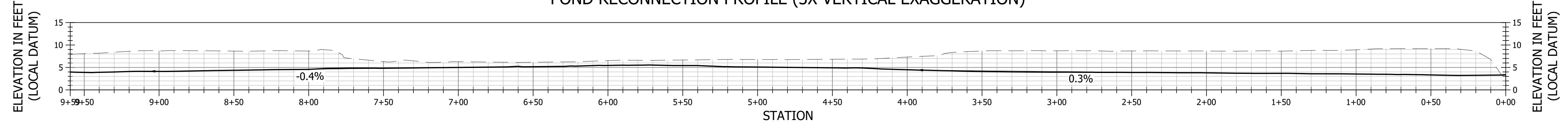
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- NOTES:
- 1. SEE SHEET 5 FOR HORIZONTAL CONTROL TABLES.
- LEGEND
- EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED GRADING EXTENT
 - EXISTING GROUND
 - PROPOSED GROUND
 - UNDISTURBED AREA
 - ORDINARY HIGH WATER MARK (ELEV. 4.5)



POND RECONNECTION PROFILE (3X VERTICAL EXAGGERATION)



VILLA CREEK ESTUARY ENHANCEMENT

SAN LUIS OBISPO COUNTY, CA

Stillwater Sciences

1203 MAIN STREET
MORRO BAY, CA 93442
P: (805) 570-7499

REVISIONS		
NO.	DESCRIPTION	DATE



PROJECT NUMBER: 714.00

SCALE: AS NOTED

DATE: 2/12/26

DESIGN: EB/CL/SAS

DRAWN: CL/JE/GD

CHECKED: JM

APPROVED: JM

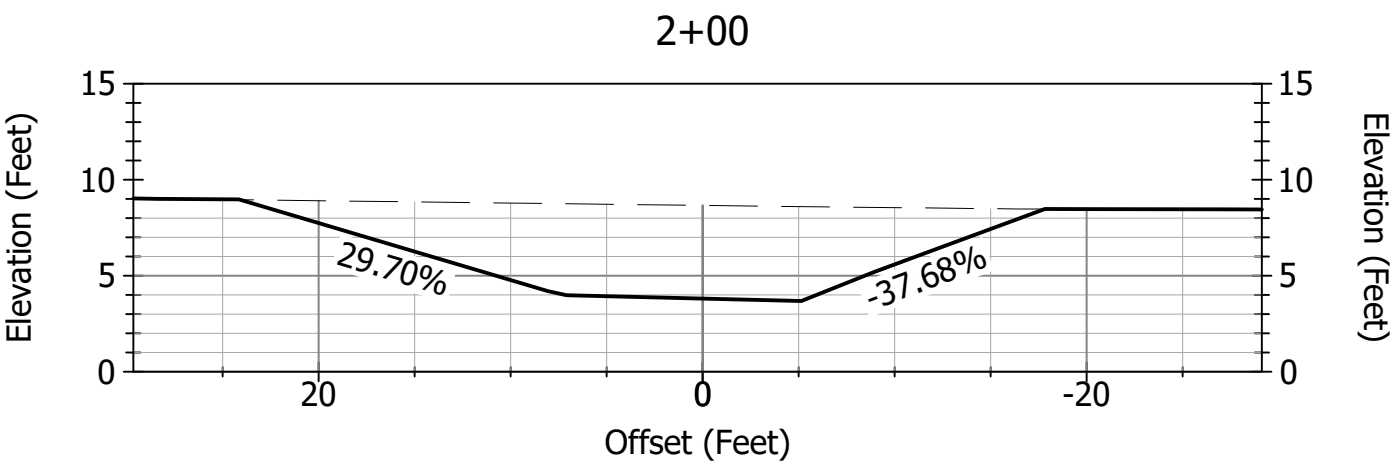
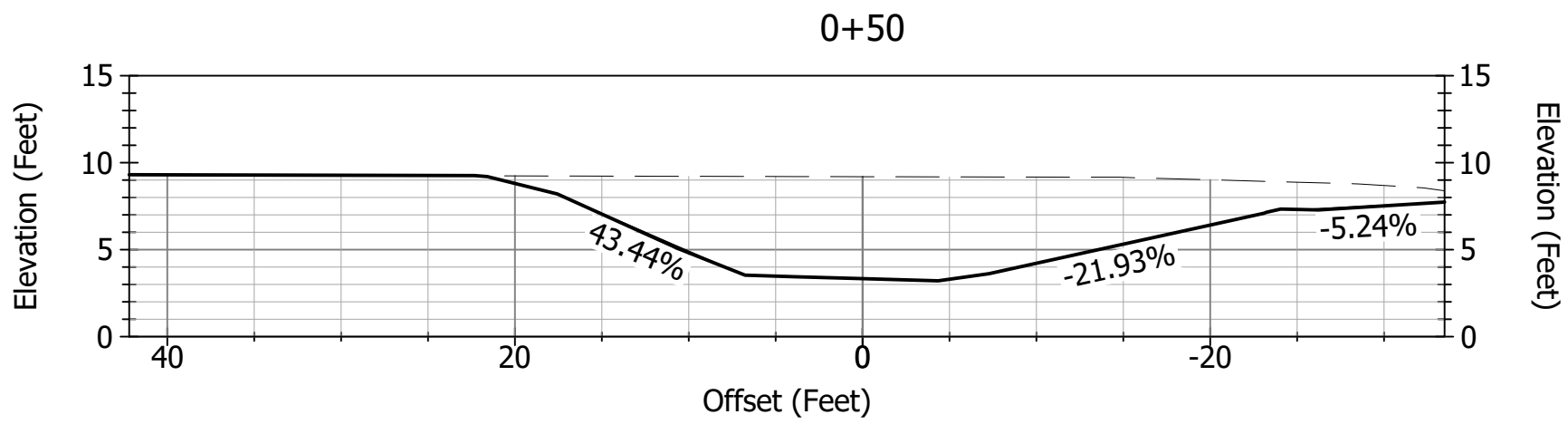
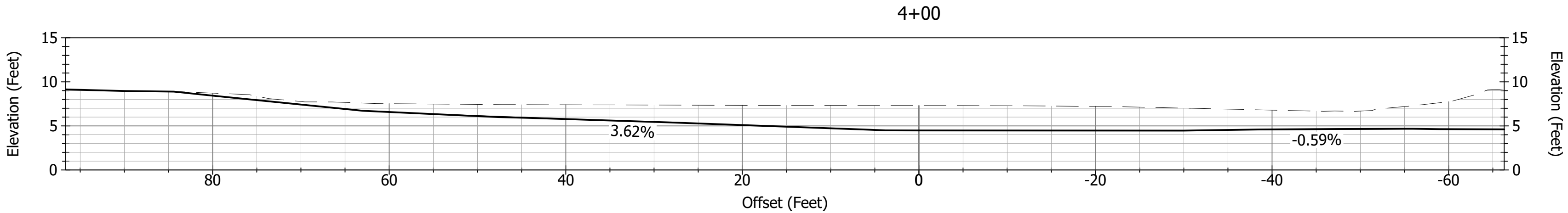
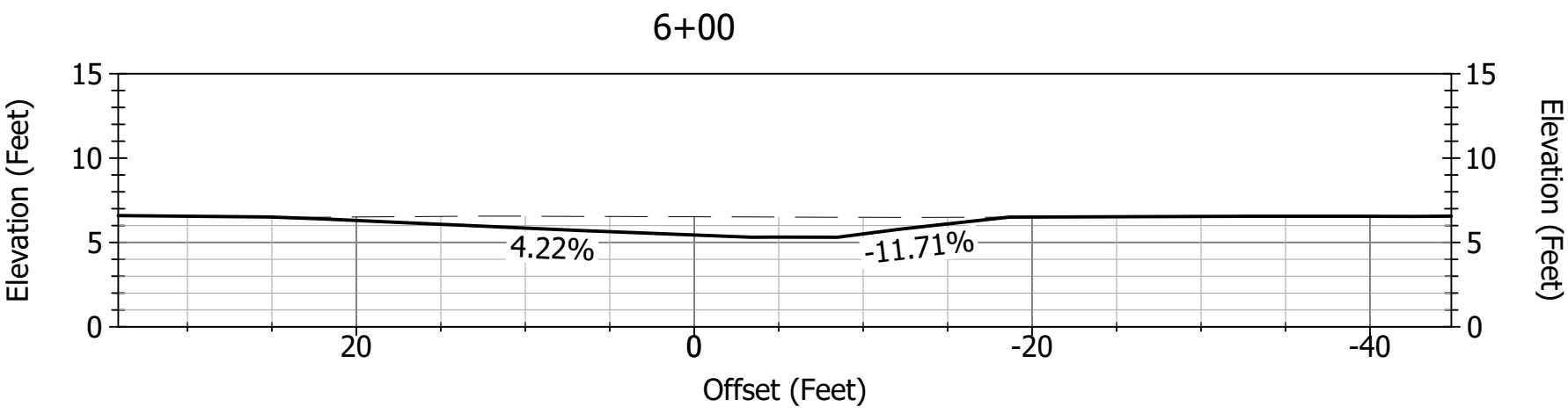
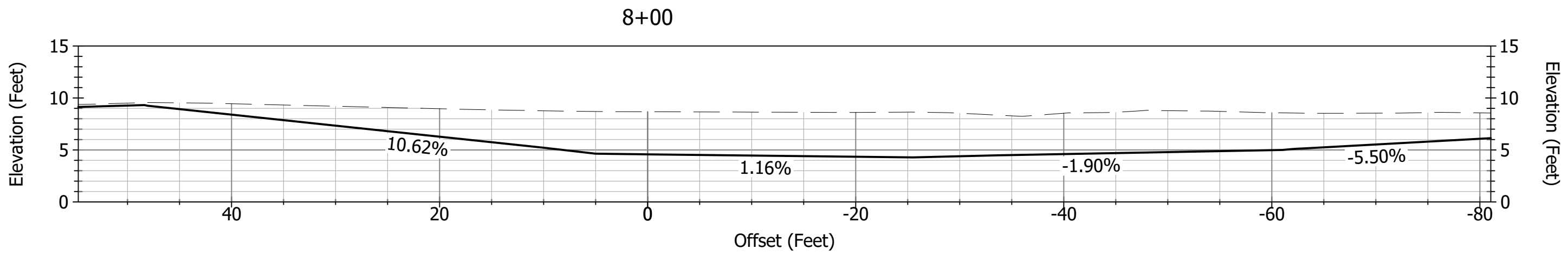


POND RECONNECTION - PLAN & PROFILE

SHEET 9 OF 14

LAST SAVED: 2/12/2026 PLOT DATE: 2/12/2026 PLOT STYLE: STILLWATER-GRASS SCALE: 2450 IF BAK DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ALWAYS ACCORDING

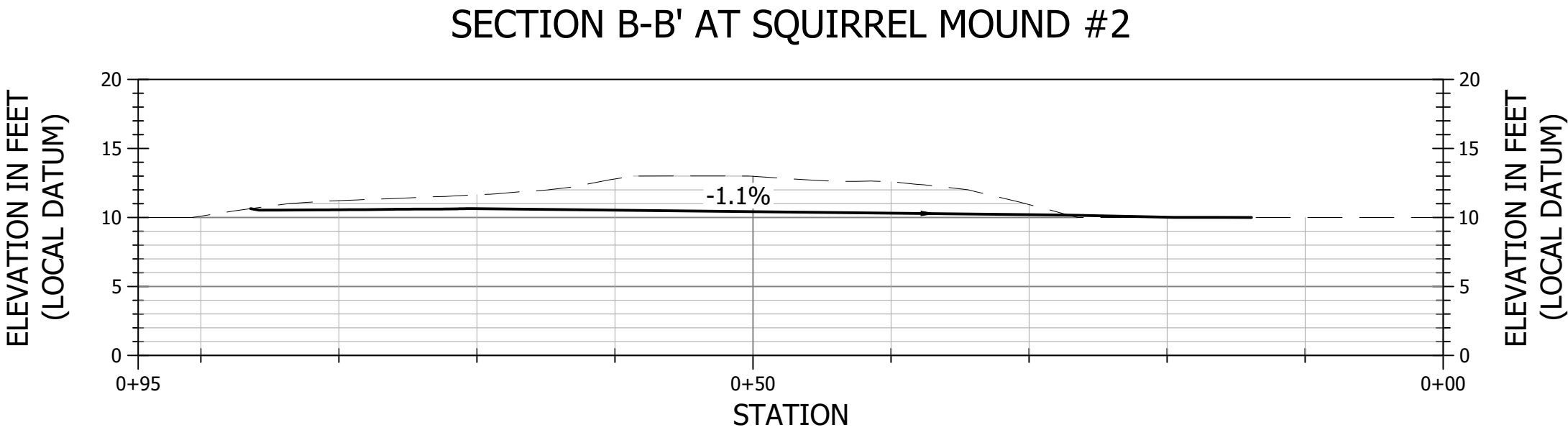
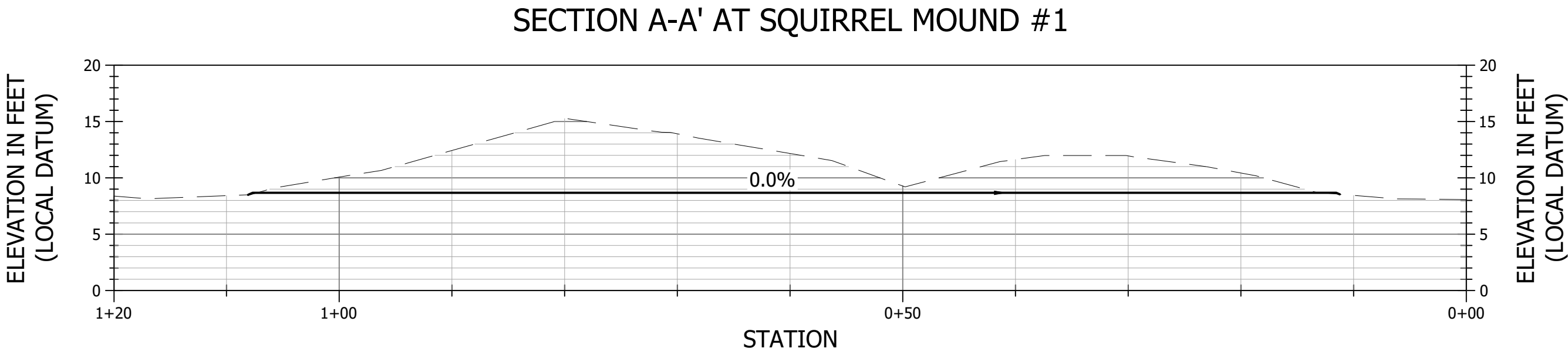
POND RECONNECTION SECTIONS (NO VERTICAL EXAGGERATION)



LEGEND

- EXISTING GROUND
- PROPOSED GROUND

SQUIRREL MOUND SECTIONS (NO VERTICAL EXAGGERATION)



VILLA CREEK ESTUARY
ENHANCEMENT

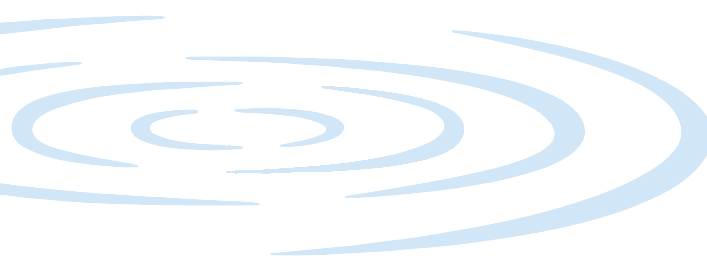
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Stillwater Sciences

1203 MAIN STREET
MORRO BAY, CA 93442
P: (805) 570-7499

REVISIONS

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 714.00
SCALE: AS NOTED
DATE: 2/12/26

DESIGN: EB/CL/SAS
DRAWN: CL/JE/GD
CHECKED: JM
APPROVED: JM



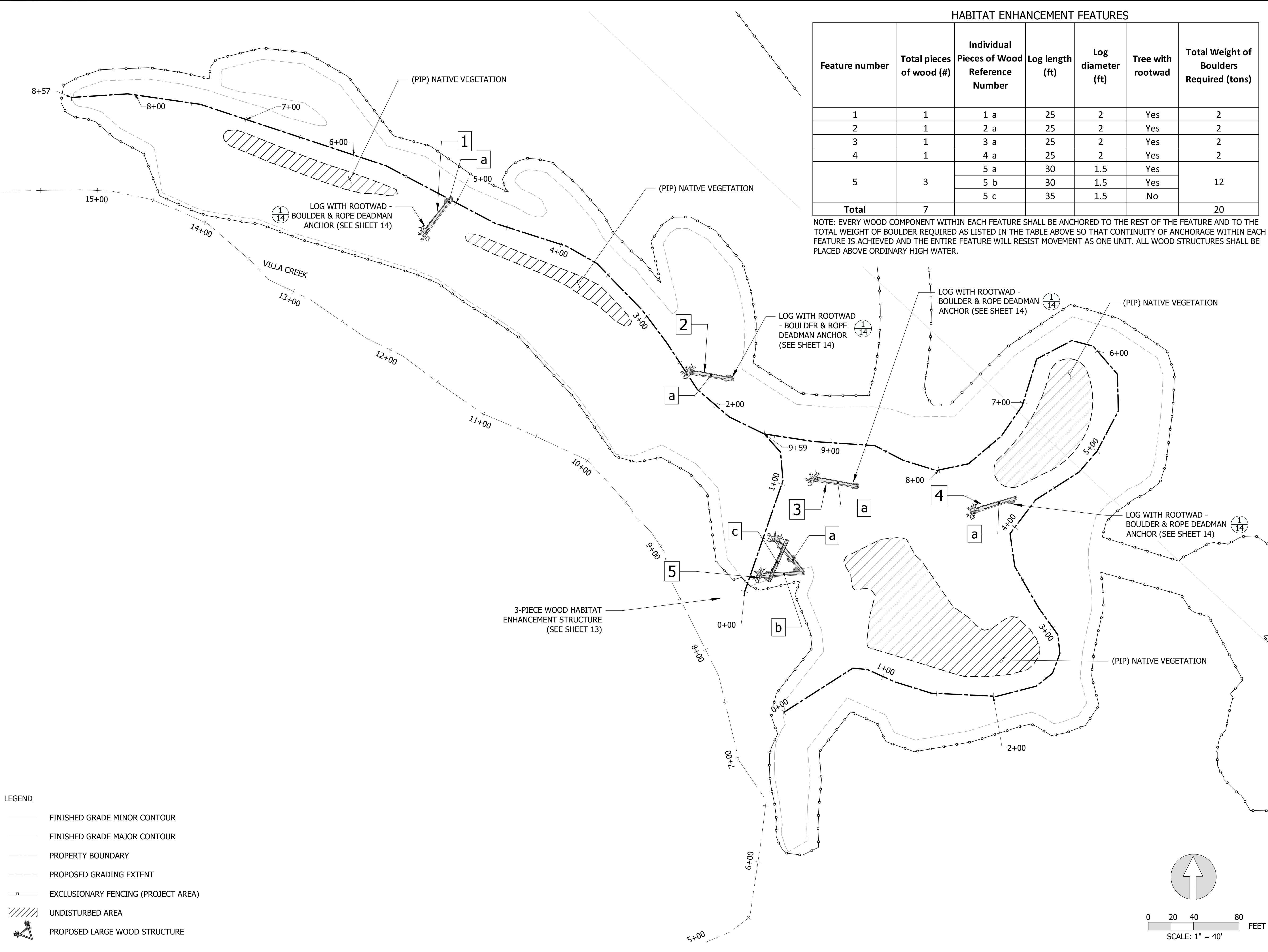
POND RECONNECTION -
SECTIONS

SHEET 10 OF 14

C:\DATA\714.00 - VILLA CREEK ESTUARY - J. M. MONSON\714.00 - PROPOSED - 100PCT.DWG
LAST SAVED: 2/12/2026
PLOT DATE: 2/12/2026
PLOT STYLE: STILLWATER-GRASSSCALE.ctb
PLOT SCALE: 1"=40'
PLOT DATE: 2/12/2026
PLOT SCALE: 1"=40'
PLOT DATE: 2/12/2026
PLOT SCALE: 1"=40'

LEGEND

- FINISHED GRADE MINOR CONTOUR
- FINISHED GRADE MAJOR CONTOUR
- PROPERTY BOUNDARY
- PROPOSED GRADING EXTENT
- EXCLUSIONARY FENCING (PROJECT AREA)
- UNDISTURBED AREA
- PROPOSED LARGE WOOD STRUCTURE



HABITAT ENHANCEMENT FEATURES

Feature number	Total pieces of wood (#)	Individual Pieces of Wood Reference Number	Log length (ft)	Log diameter (ft)	Tree with rootwad	Total Weight of Boulders Required (tons)
1	1	1 a	25	2	Yes	2
2	1	2 a	25	2	Yes	2
3	1	3 a	25	2	Yes	2
4	1	4 a	25	2	Yes	2
5	3	5 a	30	1.5	Yes	12
		5 b	30	1.5	Yes	
		5 c	35	1.5	No	
Total	7					20

NOTE: EVERY WOOD COMPONENT WITHIN EACH FEATURE SHALL BE ANCHORED TO THE REST OF THE FEATURE AND TO THE TOTAL WEIGHT OF BOULDER REQUIRED AS LISTED IN THE TABLE ABOVE SO THAT CONTINUITY OF ANCHORAGE WITHIN EACH FEATURE IS ACHIEVED AND THE ENTIRE FEATURE WILL RESIST MOVEMENT AS ONE UNIT. ALL WOOD STRUCTURES SHALL BE PLACED ABOVE ORDINARY HIGH WATER.

VILLA CREEK ESTUARY
ENHANCEMENT

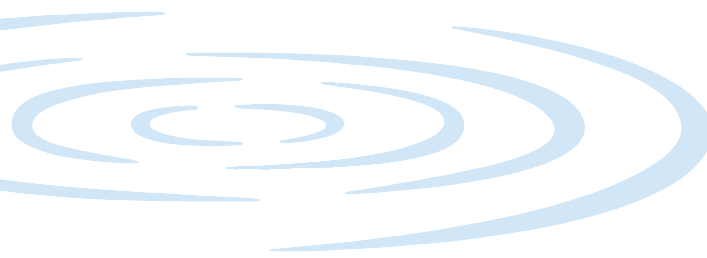
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REVISIONS

NO.	DESCRIPTION	DATE



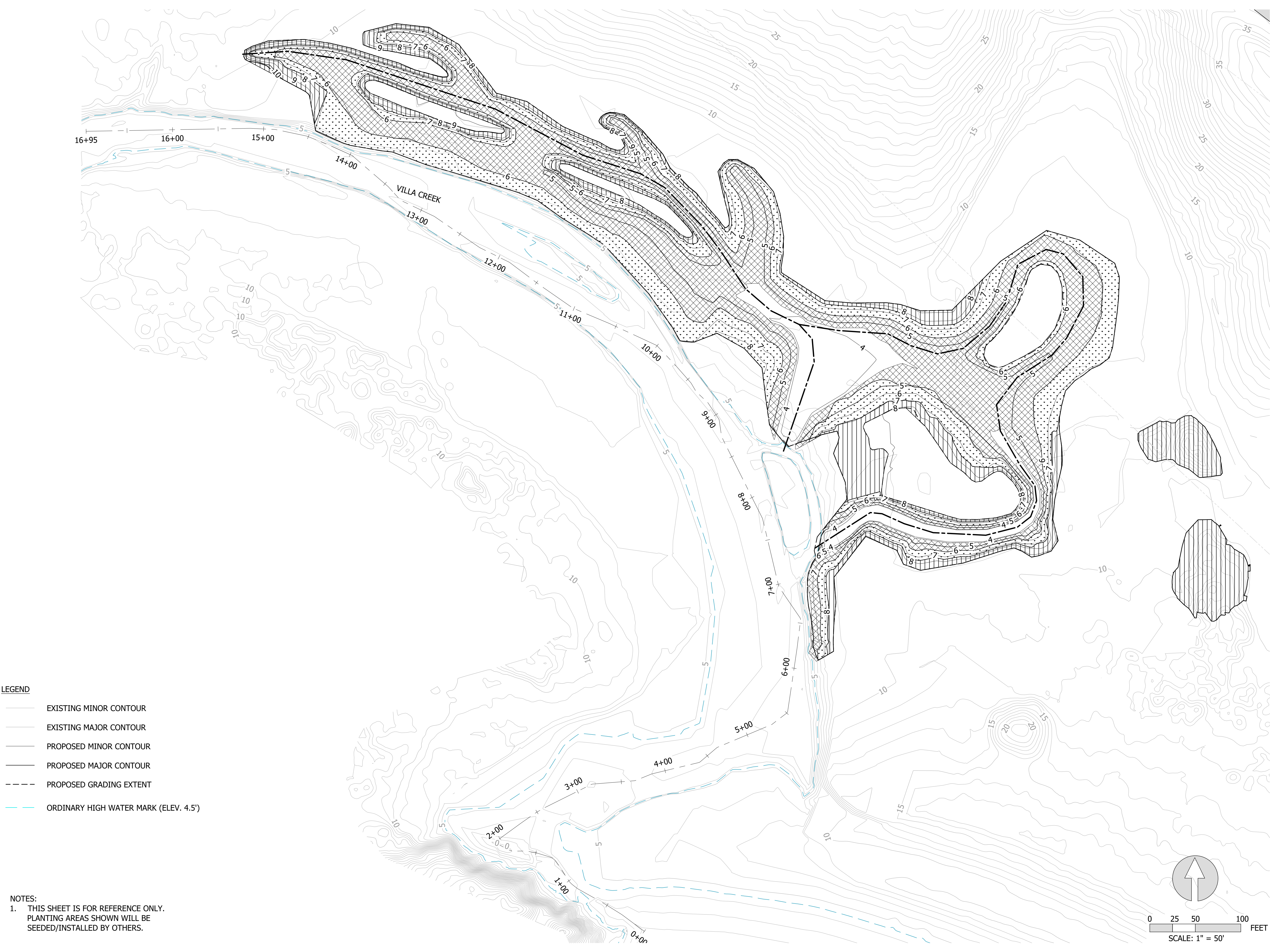
PROJECT NUMBER: 714.00
SCALE: AS NOTED
DATE: 2/12/26

DESIGN: EB/CL/SAS
DRAWN: CL/JE/GD
CHECKED: JM
APPROVED: JM



HABITAT ENAHANCEMENT
FEATURES

LAST SAVED: 2/12/2026 PLOT DATE: 2/12/2026 PLOT STYLE: STILLWATER-GRASS SCALE: 255 IF BAY AREAS NOT MEASURED, DRAWING IS NOT TO SCALE - RADIUS ACCORDING



- LEGEND
- EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED GRADING EXTENT
 - ORDINARY HIGH WATER MARK (ELEV. 4.5')

NOTES:
1. THIS SHEET IS FOR REFERENCE ONLY.
PLANTING AREAS SHOWN WILL BE
SEEDED/INSTALLED BY OTHERS.

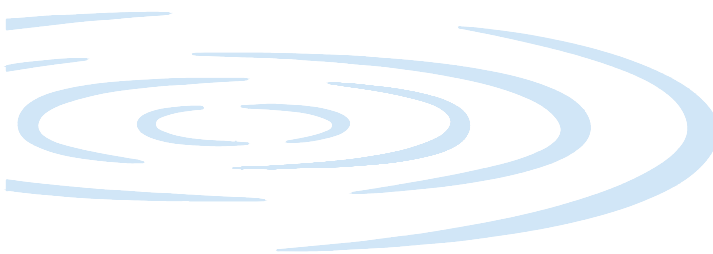
VILLA CREEK ESTUARY ENHANCEMENT

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REVISIONS		
NO.	DESCRIPTION	DATE



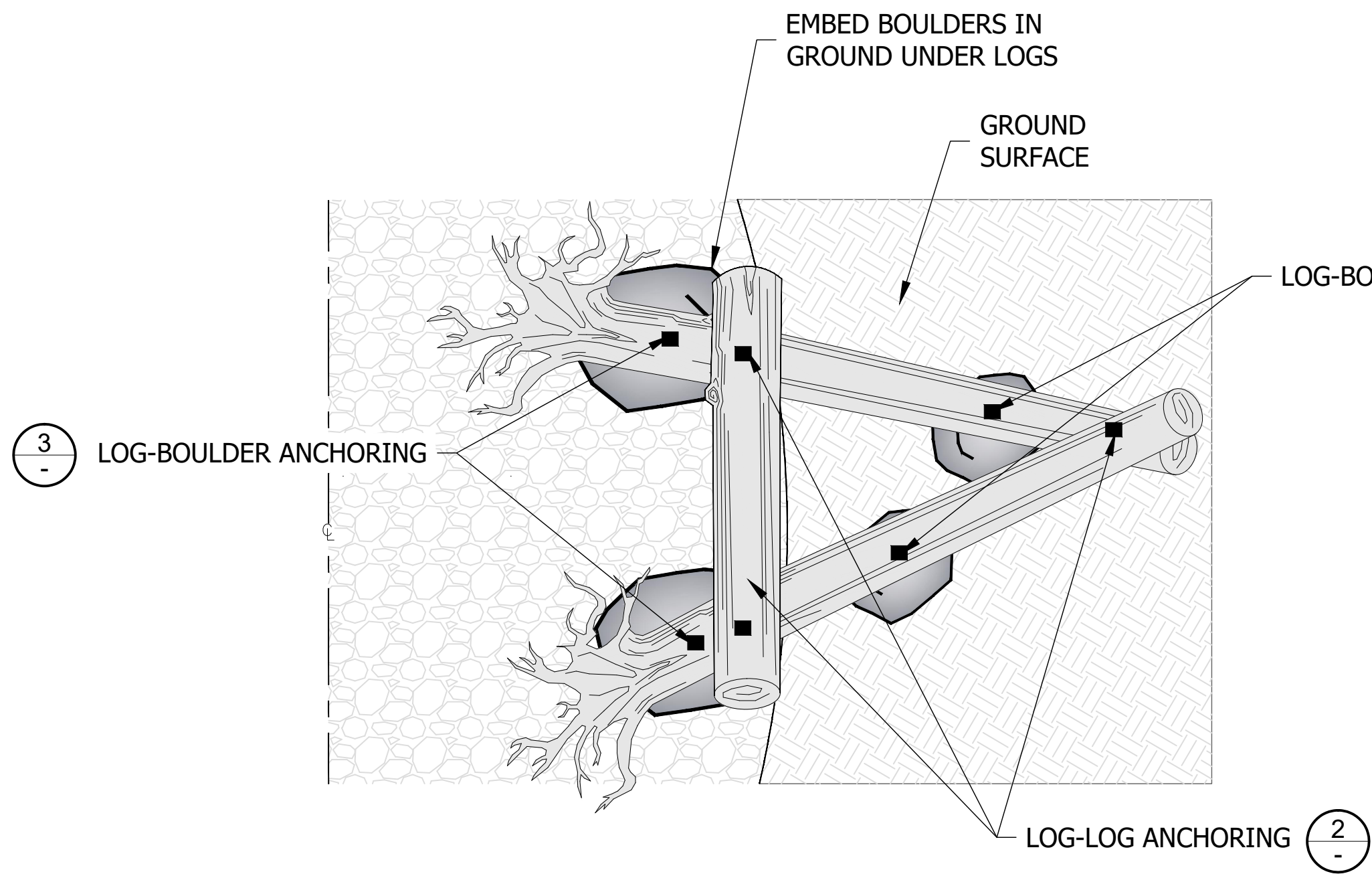
PROJECT NUMBER: 714.00
SCALE: AS NOTED
DATE: 2/12/26

DESIGN: EB/CL/SAS
DRAWN: CL/JE/GD
CHECKED: JM
APPROVED: JM

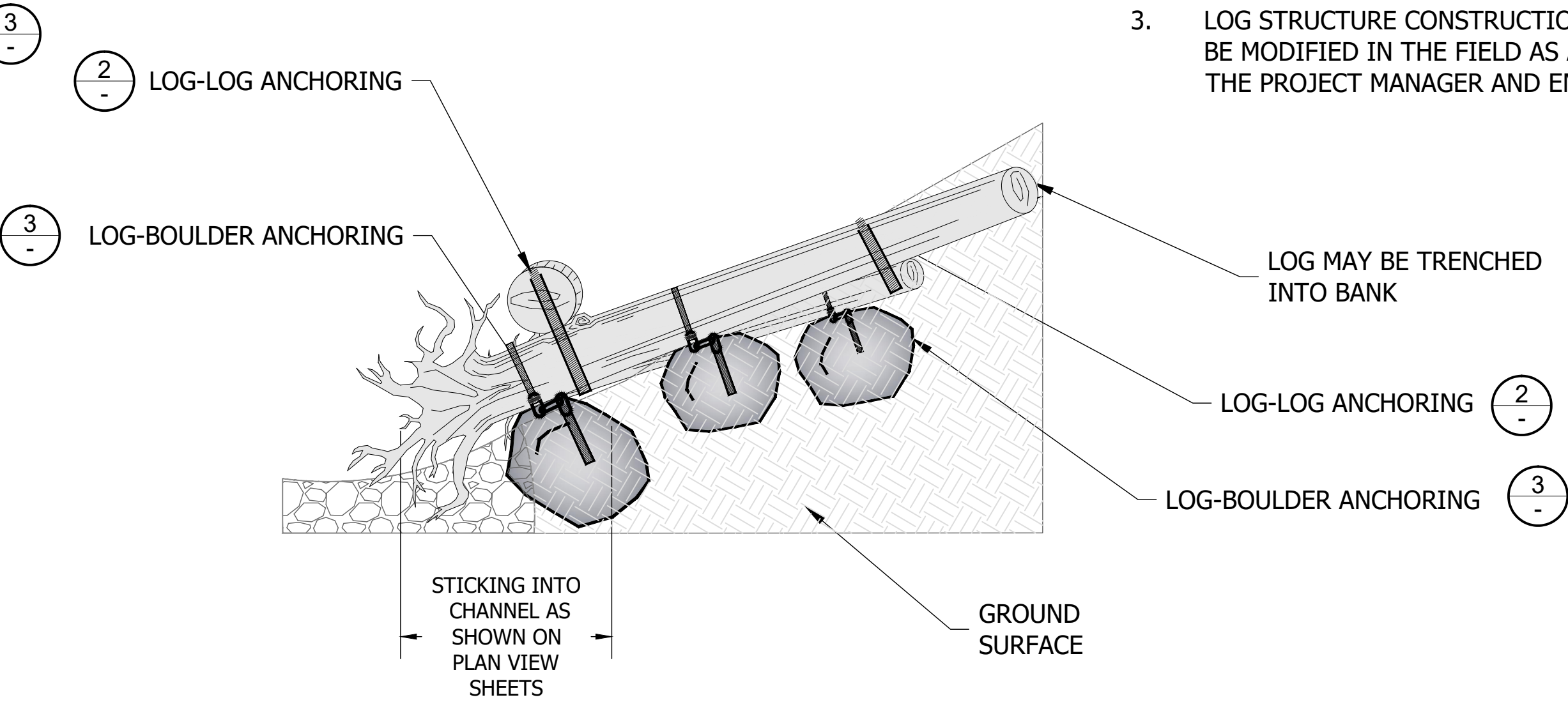


PLANTING PLAN

LAST SAVED: 2/12/2026 PLOT DATE: 2/12/2026 PLOT STYLE: STILLWATER-GRASSSCALE.dws P: (805) 570-7499



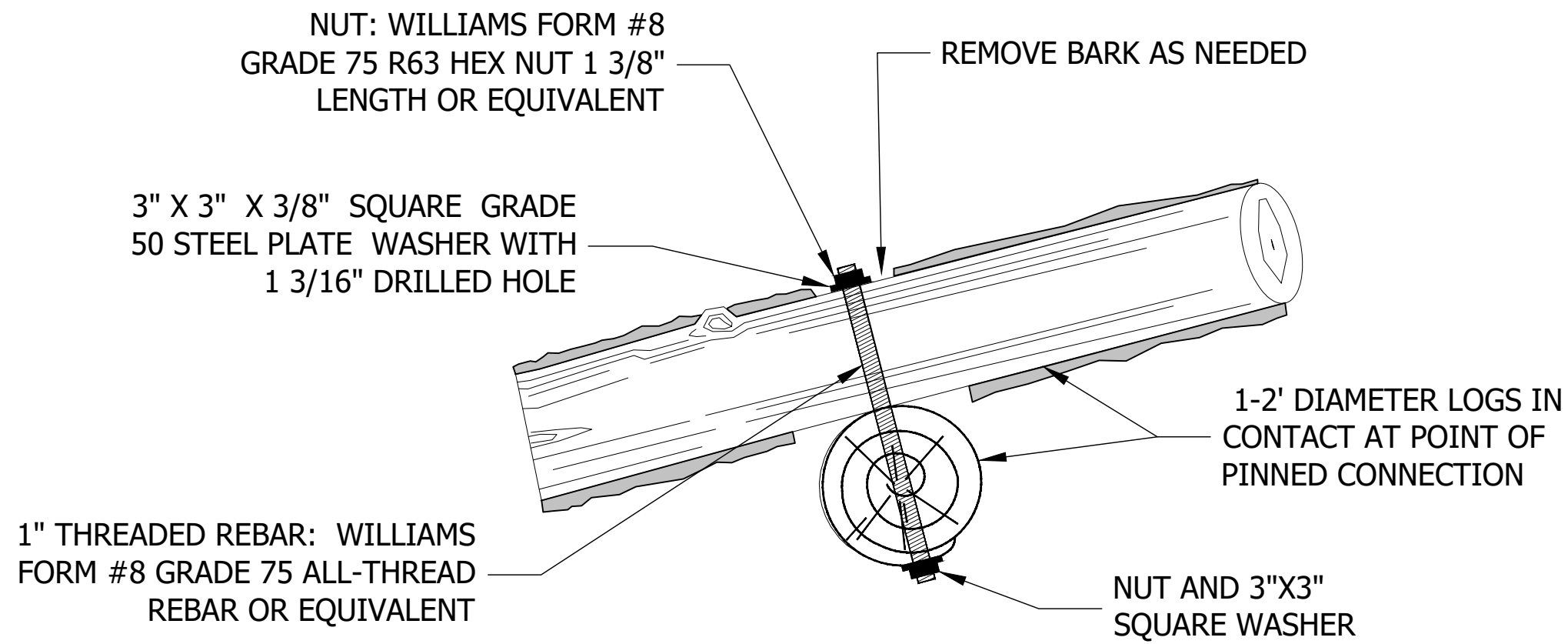
PLAN VIEW



SECTION VIEW

1 3-PIECE WOOD STRUCTURE DETAILS

NTS

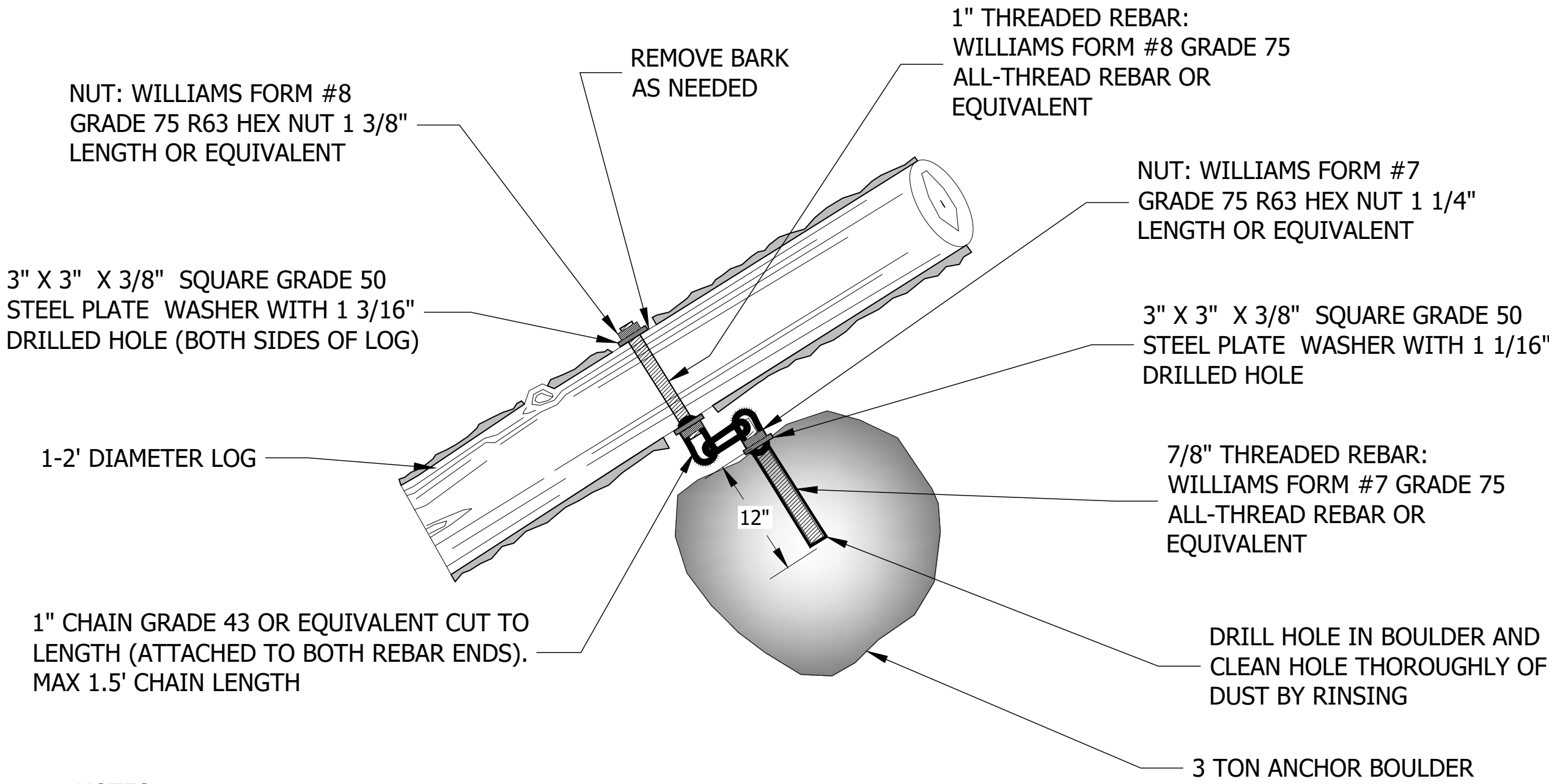


NOTES:

1. BARK REMOVAL NOT REQUIRED ON LIVE TREES TO REDUCE IMPACTS TO TREE HEALTH
2. 1 1/8\"/>

2 LOG-LOG OR LOG-TREE ANCHORING

NTS



NOTES:

1. SECURE THREADED REBAR TO 3 TON BOULDER USING EPOXY ADHESIVE (HILTI HIT-RE 500 EPOXY SYSTEM, OR APPROVED EQUAL). HOLE DEPTH MUST BE SUFFICIENT TO REACH COMPETENT, UN-FRACTURED ROCK IN ORDER TO OBTAIN MAXIMUM BONDING STRENGTH. A MINIMUM OF 12 INCHES IS RECOMMENDED; 1 1/8\"/>
2. DIFFERENT SIZE REBAR, NUT, AND WASHER FOR BOULDER ANCHORS THAN IN WOOD COMPONENTS.

3 LOG-BOULDER ANCHORING

NTS

NOTES:

1. LOG STRUCTURES SHALL BE INSTALLED AS SHOWN ON PLAN VIEW SHEETS
2. WHERE BANKS ARE STEEP, LOG STRUCTURES MAY BE TRENCHED INTO THE BANK TO ALLOW FOR A LOWER ANGLE AND PROVIDE MORE WOOD VOLUME IN THE ACTIVE CHANNEL. LOG STRUCTURE CONSTRUCTION DETAILS MAY BE MODIFIED IN THE FIELD AS APPROVED BY THE PROJECT MANAGER AND ENGINEER
- 3.

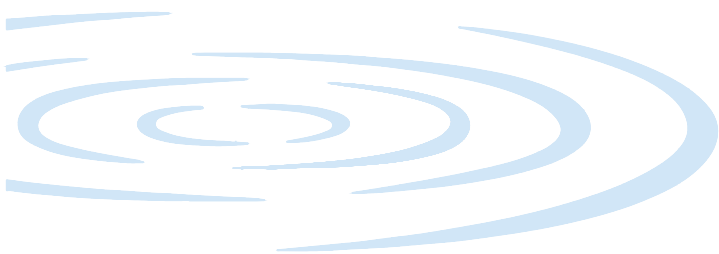
VILLA CREEK ESTUARY
ENHANCEMENT

SAN LUIS OBISPO COUNTY, CA

Stillwater Sciences

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MORRO BAY, CA 93442 P: (805) 570-7499

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DESIGN: EB/CL/SAS
DRAWN: CL/JE/GD
CHECKED: JM
APPROVED: JM



DETAILS - 1

LAST SAVED: 2/12/2026 PLOT DATE: 2/12/2026 PLOT STYLE: STILLWATER-GRASS SCALE: 2458
P:\DATA\714.00 - VILLA CREEK ESTUARY\TITLE DETAILS\714.00 DETAILS - 100PLOT.DWG

VILLA CREEK ESTUARY
ENHANCEMENT

SAN LUIS OBISPO COUNTY, CA

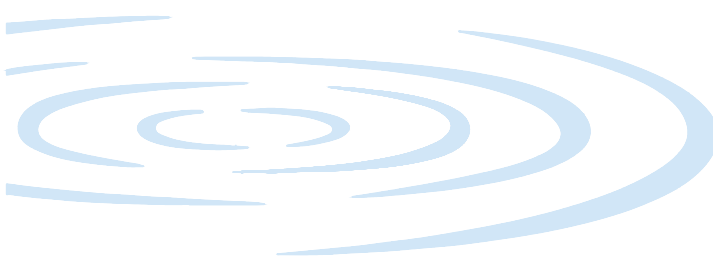
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REVISIONS

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 714.00

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DATE: 2/12/26

DESIGN: EB/CL/SAS

DRAWN: CL/JE/GD

CHECKED: JM

APPROVED: JM

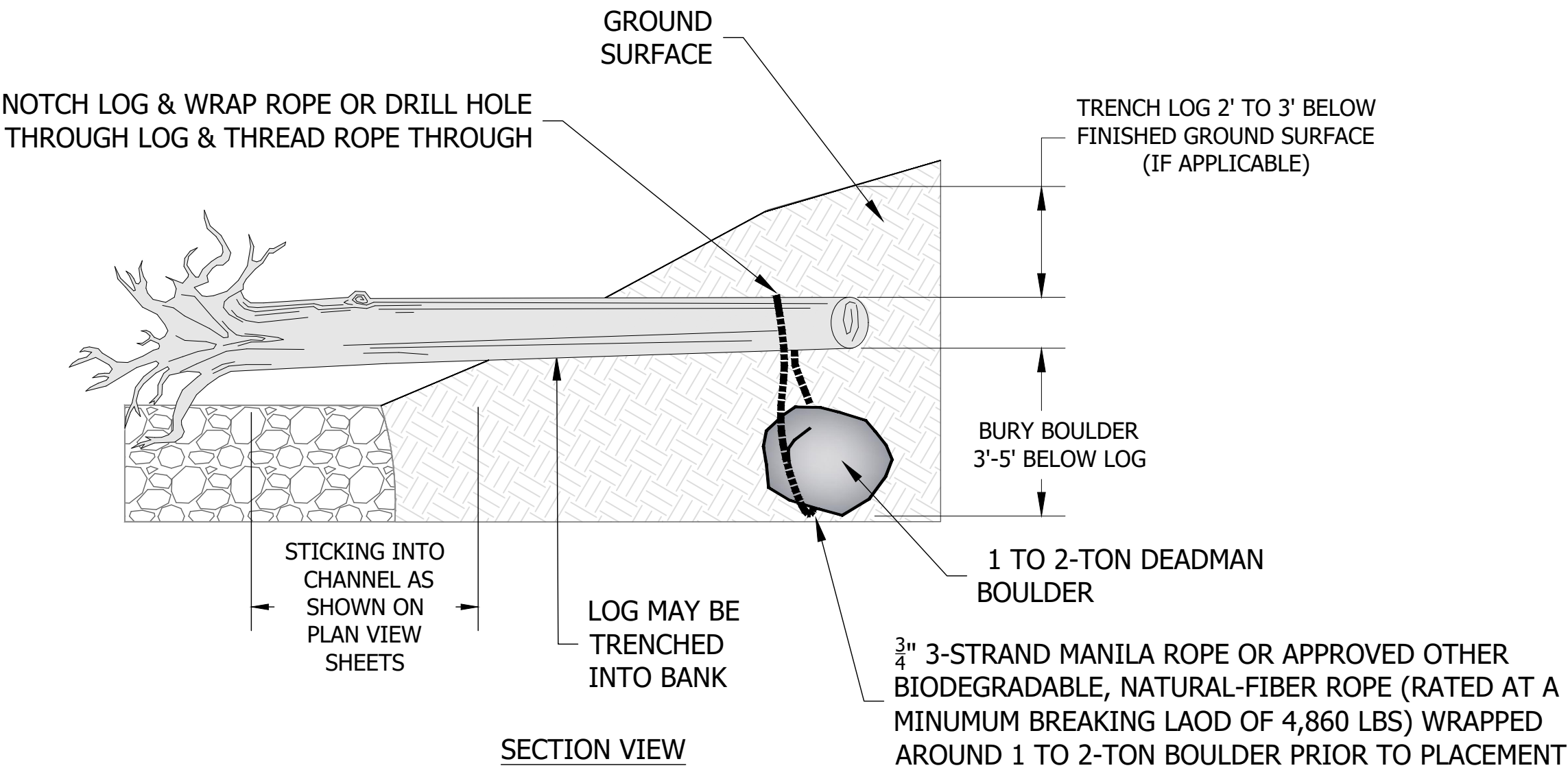
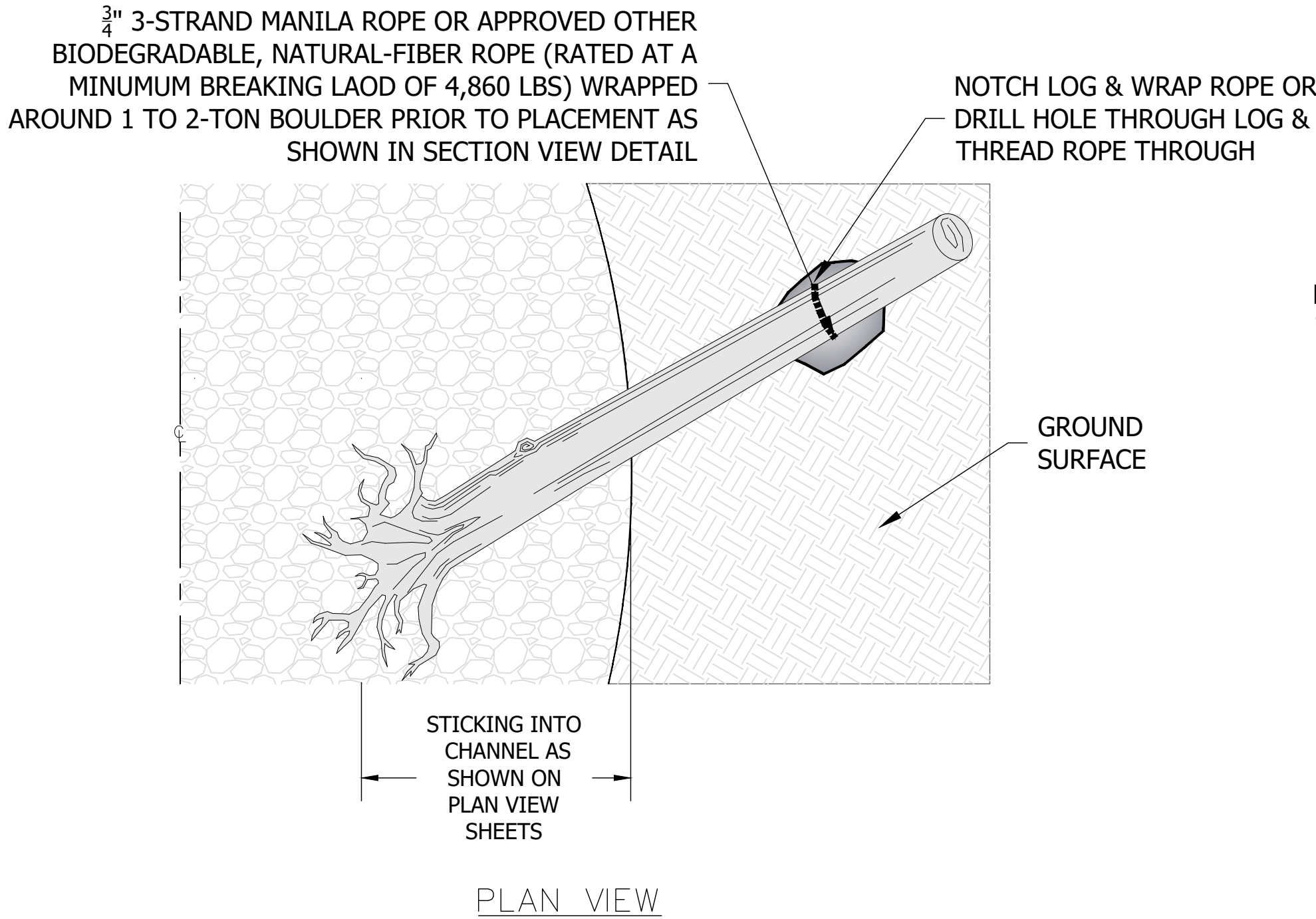


DETAILS - 2

SHEET 14 OF 14

NOTES:

- LOG STRUCTURES SHALL BE INSTALLED AS SHOWN ON PLAN VIEW SHEETS
- WHERE SLOPES ARE DISTURBED, LOG STRUCTURES MAY BE TRENCHED INTO THE BANK TO ALLOW FOR A LOWER ANGLE AND PROVIDE MORE WOOD VOLUME IN THE ACTIVE CHANNEL
LOG STRUCTURE CONSTRUCTION DETAILS MAY BE MODIFIED IN THE FIELD AS APPROVED BY THE PROJECT MANAGER AND ENGINEER
-



1 LOG WITH ROOTWAD - BOULDER & ROPE DEADMAN ANCHOR

NTS