US Army Corps of Engineers®
San Francisco District

Sonoma Water

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PETALUMA, CA 94945
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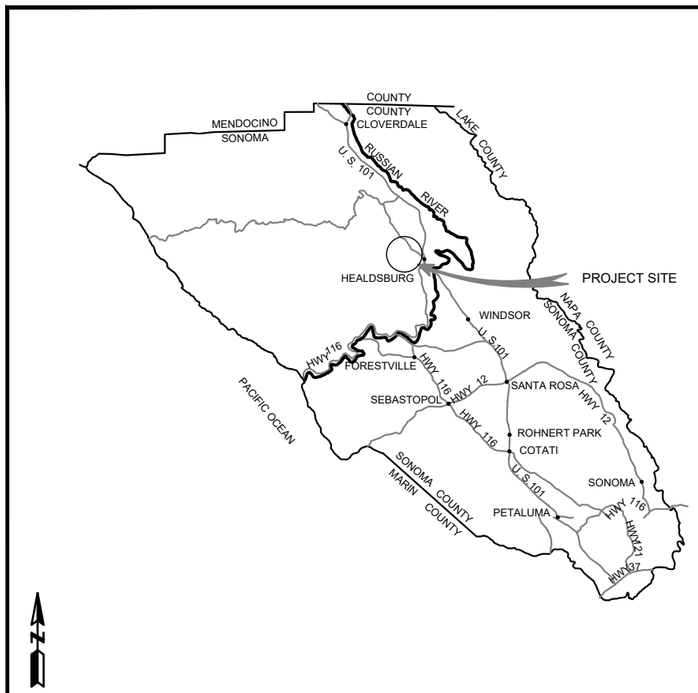
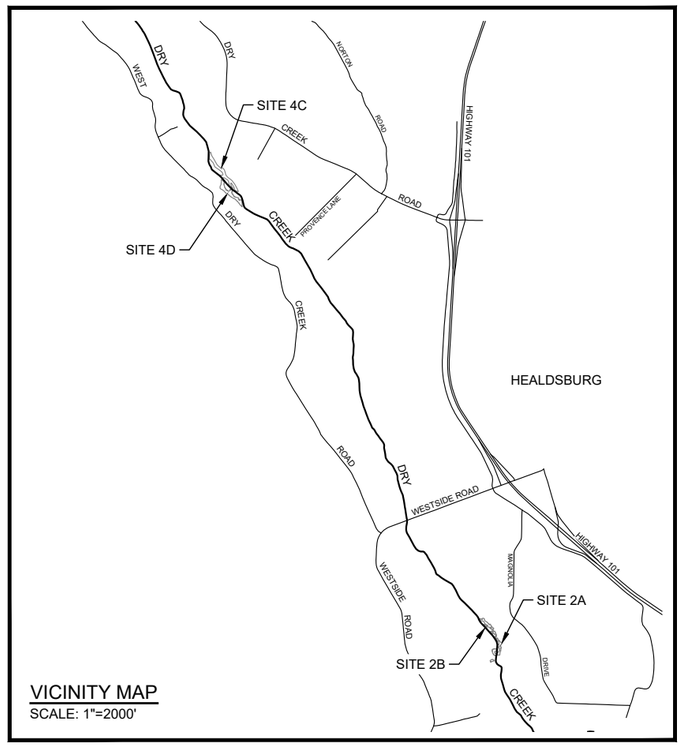
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)



LOCATION MAP
NOT TO SCALE



VICINITY MAP
SCALE: 1"=2000'

SOLICITATION NO: W912P7-21-B-XXXX
CONTRACT NO: W912P7-21-C-XXXX
ISSUE DATE: AUG 2020

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THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS THAT APPEAR ON THESE PROJECT DOCUMENTS ARE WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.

SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF DRAWINGS IN THIS SET.

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SON T. HA, P.E. DATE
CHIEF, ENGINEERING BRANCH

APPROVED BY:

SUSAN J. KELLY DATE
CHIEF, ENGINEERING, PLANNING & CONSTRUCTION DIVISION

PREPARED UNDER THE DIRECTION OF:

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LT. COLONEL, EN DISTRICT COMMANDER

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912P7-21-B-XXXX
CONTRACT NO.: W912P7-21-C-XXXX
DRAWING NO.: DC-1-102
DESIGNED BY: JDW, MAS
DRAWN BY: MRL, GW
CHECKED BY: XXX
SUBMITTED BY: XXX
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U.S. ARMY CORPS OF ENGINEERS
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SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

TITLE SHEET

SHEET ID
G001
1 OF 53

ABBREVIATIONS

APN	ASSESSOR'S PARCEL NUMBER
APPROX	APPROXIMATE
C	CURVE
CFS	CUBIC FEET PER SECOND
CP	CONTROL POINT
DG	DESIGN GRADE
DIA	DIAMETER
D/S	DOWNSTREAM
DWG	DRAWING NUMBER
EL	ELEVATION
EX	EXISTING
FES	FABRIC-ENCAPSULATED SOIL
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
PIP	PROTECT IN PLACE
STA	STATION
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
TYP	TYPICAL
U/S	UPSTREAM
VAR	VARIES
VIF	VERIFY IN FIELD
W	WITH
WSE	WATER SURFACE ELEVATION
YR	YEAR
+/-	PLUS/MINUS

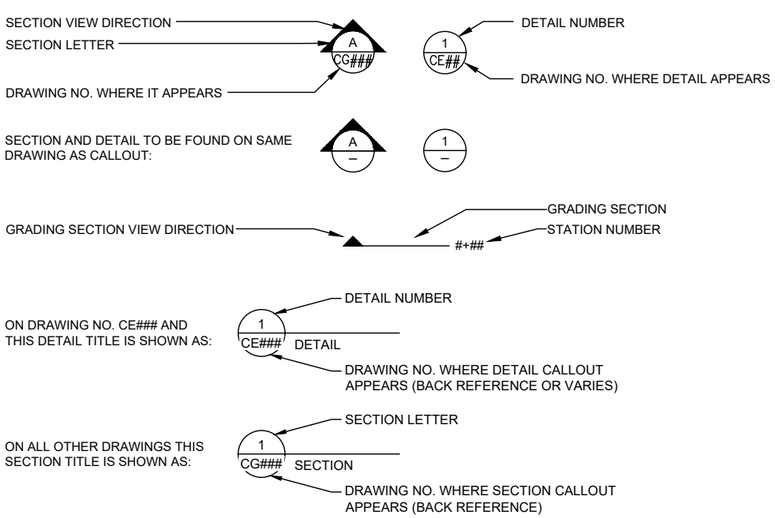
LEGEND

- PARCEL LINES
- MAINTENANCE & MONITORING EASEMENT
- ACCESS ROUTE
- LIMIT OF GRADING
- 2+00 — ALIGNMENT STATIONING
- APPROX EDGE OF WATER AT BASE FLOW (110 CFS) (NOTE 15, THIS SHEET)
- OH — ELECTRIC LINE
- EXISTING BUILDING
- FLOW — FLOW DIRECTION
- EXISTING MINOR CONTOUR
- 75 — EXISTING MAJOR CONTOUR
- DESIGN MINOR CONTOUR
- 70 — DESIGN MAJOR CONTOUR

SYMBOLOGY

- STAGING AREA
- EXISTING CONCRETE RIP RAP
- EXISTING RIFFLE
- NEW GEOTECHNICAL BANK STABILIZATION
- EROSION CONTROL FABRIC
- LIVE POLE PLANTING
- SIDE CHANNEL INLET PLUG
- FORCING WOOD
- HABITAT WOOD
- TOPPLE TREE
- BOULDER FIELD
- EX TREE, SEE DWGS G103 TO G106 AND CD101 TO CD104 EXISTING TREE (PROTECT IN PLACE)
- 1000 — TREE NUMBER, SEE DWGS G103 TO G106 AND CD101 TO CD104 EXISTING TREE (FOR TOPPLE TREE)
- 1000 — EXISTING TREE TO REMOVE

TYPICAL SECTION LETTERING AND DETAIL NUMBERING SYSTEM



GENERAL NOTES

1. ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (US SURVEY FEET).
2. THE DRAWINGS ARE BASED ON THE CALIFORNIA STATE PLANE ZONE II COORDINATE SYSTEM (FIPS 0402) NORTH AMERICAN DATUM OF 1983 FEET.
3. EXISTING TOPOGRAPHY OBTAINED FROM SONOMA VEGETATION MAPPING AND LiDAR PROGRAM LIGHT DETECTION AND RANGING (LiDAR) SURVEY COMPLETED BY THE UNIVERSITY OF MARYLAND BETWEEN SEPTEMBER 28TH 2013 AND NOVEMBER 26TH 2013. THE EXISTING GRADE REFLECTS SITE CONDITIONS AT THE TIME OF THE SURVEYS. CONTRACTOR MUST VERIFY GRADES AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. AERIAL IMAGERY SHOWN ON DRAWING PLAN SHEET WAS OBTAINED FROM SONOMA VEGETATION MAPPING AND LiDAR PROGRAM. IMAGERY REPRESENTS GROUND CONDITIONS BETWEEN SEPTEMBER 28TH 2013 AND NOVEMBER 26TH 2013.
5. LOW FLOW CHANNEL GEOMETRY AND BATHYMETRY ARE APPROXIMATE BASED ON CHANNEL PROFILE SURVEYS COMPLETED BY SONOMA WATER AND CONSULTING ENGINEER IN FALL 2013 AND WINTER 2014, RESPECTIVELY.
6. EXISTING BUILDING FOOTPRINTS AND ROAD SYSTEM ARE APPROXIMATE.
7. UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON FIELD OBSERVATIONS, SURVEY, AND AERIAL PHOTOGRAPHS.
8. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST CONTACT ALL APPROPRIATE AGENCIES, LANDOWNERS, AND THE UNDERGROUND SERVICE ALERT (1-800 227-2600 OR 811) TO FIELD LOCATE ALL UNDERGROUND UTILITIES AND VINEYARD IRRIGATION SYSTEMS.
9. PARCEL LINES SHOWN ARE BASED ON SONOMA COUNTY ASSESSOR MAP DATA PROVIDED BY OWNER. PARCEL LINES ARE APPROXIMATE AND DO NOT REPRESENT BOUNDARY SURVEYS.
10. IN SOME CASES THE MAINTENANCE & MONITORING EASEMENT AND PARCEL LINES OVERLAP. WHERE THIS OCCURS THE APPROXIMATE PARCEL LINE IS SHOWN.
11. REMOVAL OF SEDIMENT AND VEGETATION SHALL BE LIMITED TO THE MINIMUM REQUIRED TO COMPLETE THE PROJECT TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
12. NON-REUSABLE MATERIAL REMOVED WITHIN THE LIMIT OF WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR, TO BE DISPOSED OF OFFSITE IN A LEGAL MANNER.
13. CONTRACTOR MUST MAINTAIN DOWNSTREAM FLOW AT ALL TIMES. PERFORM DEWATERING AND/OR WATER DIVERSION AS NEEDED AND IN ACCORDANCE WITH THE SPECIFICATIONS AND PROJECT PERMIT CONDITIONS.
14. THE CONTRACTOR MUST BE AWARE THAT THE WORK WILL INCLUDE EXCAVATION WITHIN THE MAIN CHANNEL OF DRY CREEK AND IN AREAS BELOW THE WATER TABLE. PERFORM DEWATERING AND/OR WATER DIVERSION AS NEEDED.
15. THE CONTRACTOR MUST ANTICIPATE FLOW IN DRY CREEK (110 CFS OR GREATER) THROUGHOUT CONSTRUCTION. ESTIMATED MINIMUM WATER SURFACE ELEVATION AT 110 CFS SHOWN ON DRAWINGS IS APPROXIMATE ONLY AND MUST NOT BE RELIED UPON BY CONTRACTOR. FIELD VERIFY ACTUAL CONDITIONS.
16. THE CONTRACTOR MUST PERFORM ALL WORK IN A MANNER THAT COMPLIES WITH ALL PERMITS AND IS PROTECTIVE OF THE ENVIRONMENT, INCLUDING AIR AND WATER QUALITY, WILDLIFE, VEGETATION, AND HUMAN HEALTH. SEE SPECIFICATIONS FOR ENVIRONMENTAL AND SEQUENCING REQUIREMENTS.
17. THE CONTRACTOR MUST ONLY OPERATE EQUIPMENT ON APPROVED ACCESS ROUTES AND WITHIN PROJECT LIMITS INDICATED ON THE DRAWINGS. THE CONTRACTOR MUST ALSO CONFIRM THE ACCESS ROUTES WITH THE CONTRACTING OFFICER PRIOR TO MOBILIZATION. CONTRACTOR MUST PHOTO-DOCUMENT EXISTING CONDITIONS OF ALL ACCESS ROUTES PER SPECIFICATIONS.
18. FINAL ALIGNMENT OF ACCESS ROUTES THROUGH VEGETATED CORRIDORS TO BE CONFIRMED AT TIME OF CONSTRUCTION. ACCESS ROUTES FROM VINEYARD LEVEL TO CREEK MUST BE LEFT IN PLACE UNLESS OTHERWISE DIRECTED BY THE CONTRACTING OFFICER.
19. CONTRACTOR MUST CONFINE ITS WORK TO GRADING LIMITS ON THE DRAWINGS.
20. THE CONTRACTOR'S WORK MUST BE SCHEDULED AND SEQUENCED TO PREVENT ANY DISRUPTION OF LANDOWNER ACTIVITIES (E.G. AGRICULTURE, WINERY AND VINEYARD PRACTICES).
21. REVEGETATION AND IRRIGATION ELEMENTS WILL BE IMPLEMENTED BY A SEPARATE CONTRACT.
22. PERFORM SEEDING AND IMPLEMENT EROSION CONTROL MEASURES FOR DISTURBED AREAS IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND THE OWNER-APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

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MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102

DESIGNED BY: JQW, MAS
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CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

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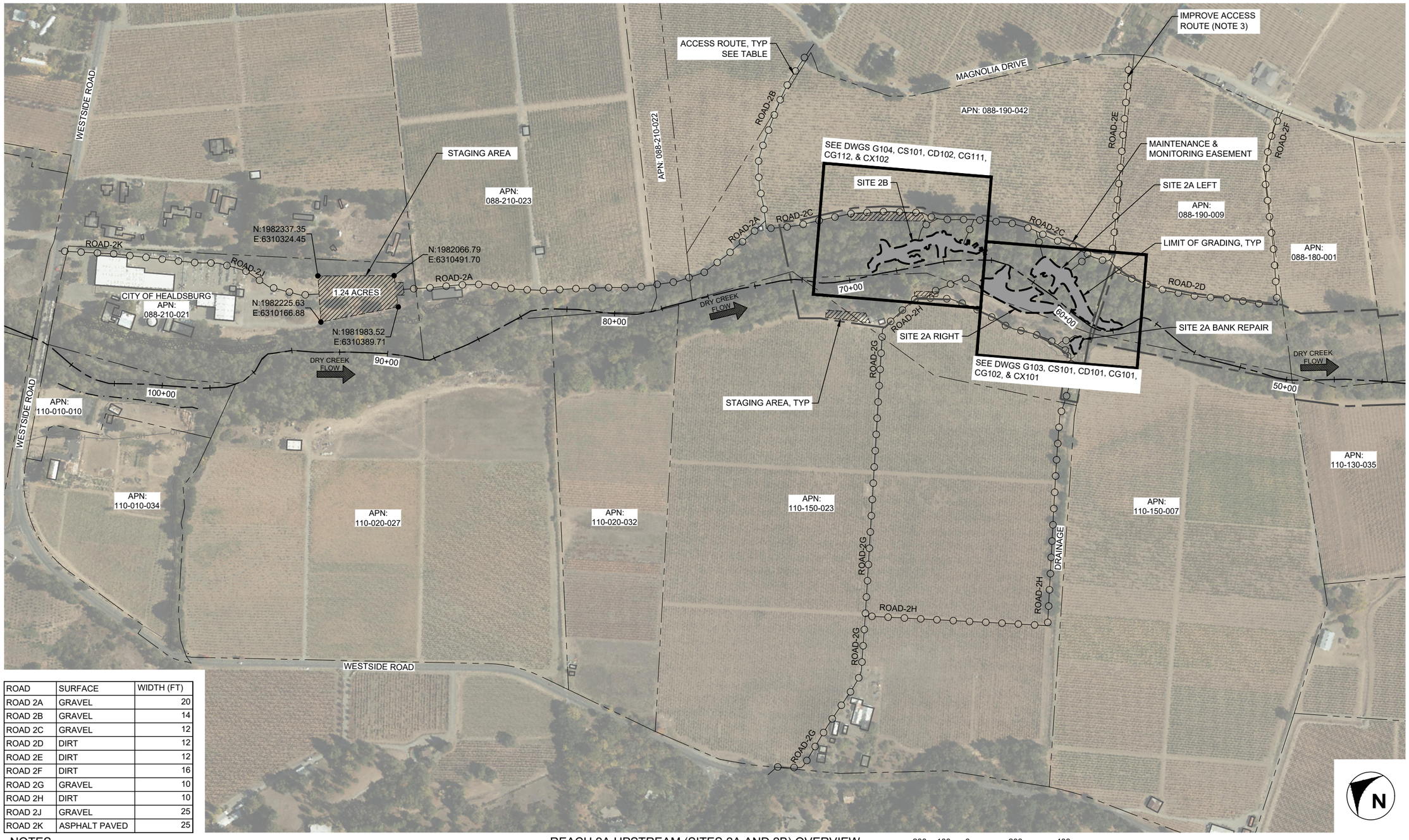
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

GENERAL NOTES, SYMBOLOGY & ABBREVIATIONS

SHEET ID
G002
2 OF 53



ROAD	SURFACE	WIDTH (FT)
ROAD 2A	GRAVEL	20
ROAD 2B	GRAVEL	14
ROAD 2C	GRAVEL	12
ROAD 2D	DIRT	12
ROAD 2E	DIRT	12
ROAD 2F	DIRT	16
ROAD 2G	GRAVEL	10
ROAD 2H	DIRT	10
ROAD 2J	GRAVEL	25
ROAD 2K	ASPHALT PAVED	25

NOTES

1. THE MAINTENANCE & MONITORING EASEMENTS EXTEND FROM THE BOUNDARY LINE TO THE CENTERLINE OF DRY CREEK.
2. WITHIN THE MAINTENANCE AND MONITORING EASEMENTS, THE SUGGESTED ACCESS ROUTES ARE APPROXIMATE AND MAY BE MODIFIED BASED ON ACTUAL CONDITIONS IN THE FIELD TO MINIMIZE IMPACTS. ACCESS ROUTES MUST BE APPROVED BY CONTRACTING OFFICER.
3. ACCESS ROUTE IMPROVEMENTS MAY INCLUDE MINOR GRADING, LEVELING, PLACEMENT OF GRAVEL, AND VEGETATION CLEARING.
4. CONTRACTOR MUST MINIMIZE REMOVAL OF MATURE TREES AND NATIVE VEGETATION.

REACH 2A UPSTREAM (SITES 2A AND 2B) OVERVIEW

PLAN

SCALE: 1" = 200'

1"=200' 200 100 0 200 400 SCALE FEET

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DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

REACH 2A UPSTREAM (SITES 2A AND 2B) OVERVIEW

SHEET ID
G101
3 OF 53

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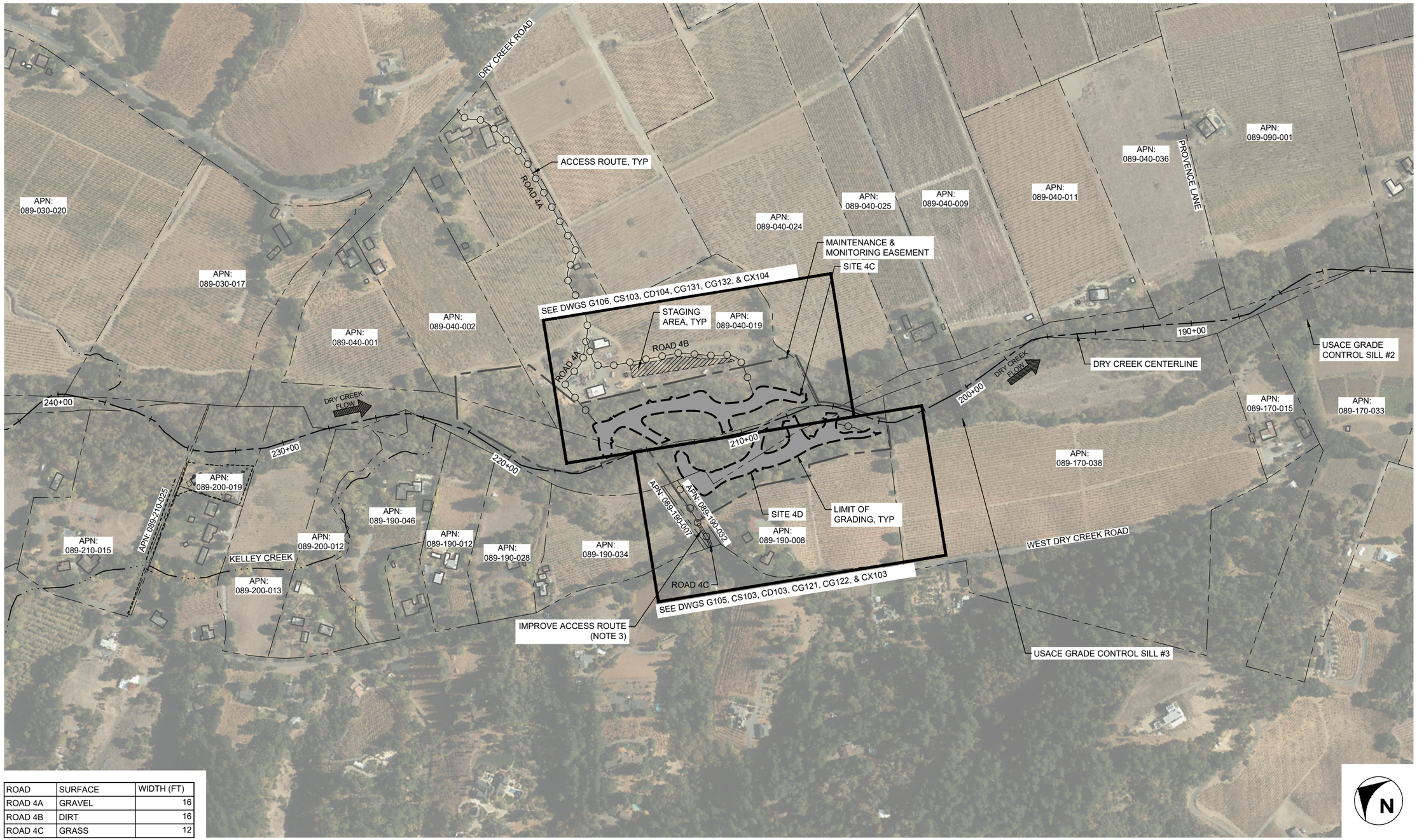
STATUS 99%



ROAD	SURFACE	WIDTH (FT)
ROAD 4A	GRAVEL	16
ROAD 4B	DIRT	16
ROAD 4C	GRASS	12

NOTES

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4. CONTRACTOR MUST MINIMIZE REMOVAL OF MATURE TREES AND NATIVE VEGETATION.

REACH 4C (SITES 4C AND 4D) OVERVIEW

PLAN

SCALE: 1" = 200'

1"=200' 200 100 0 200 400
SCALE FEET

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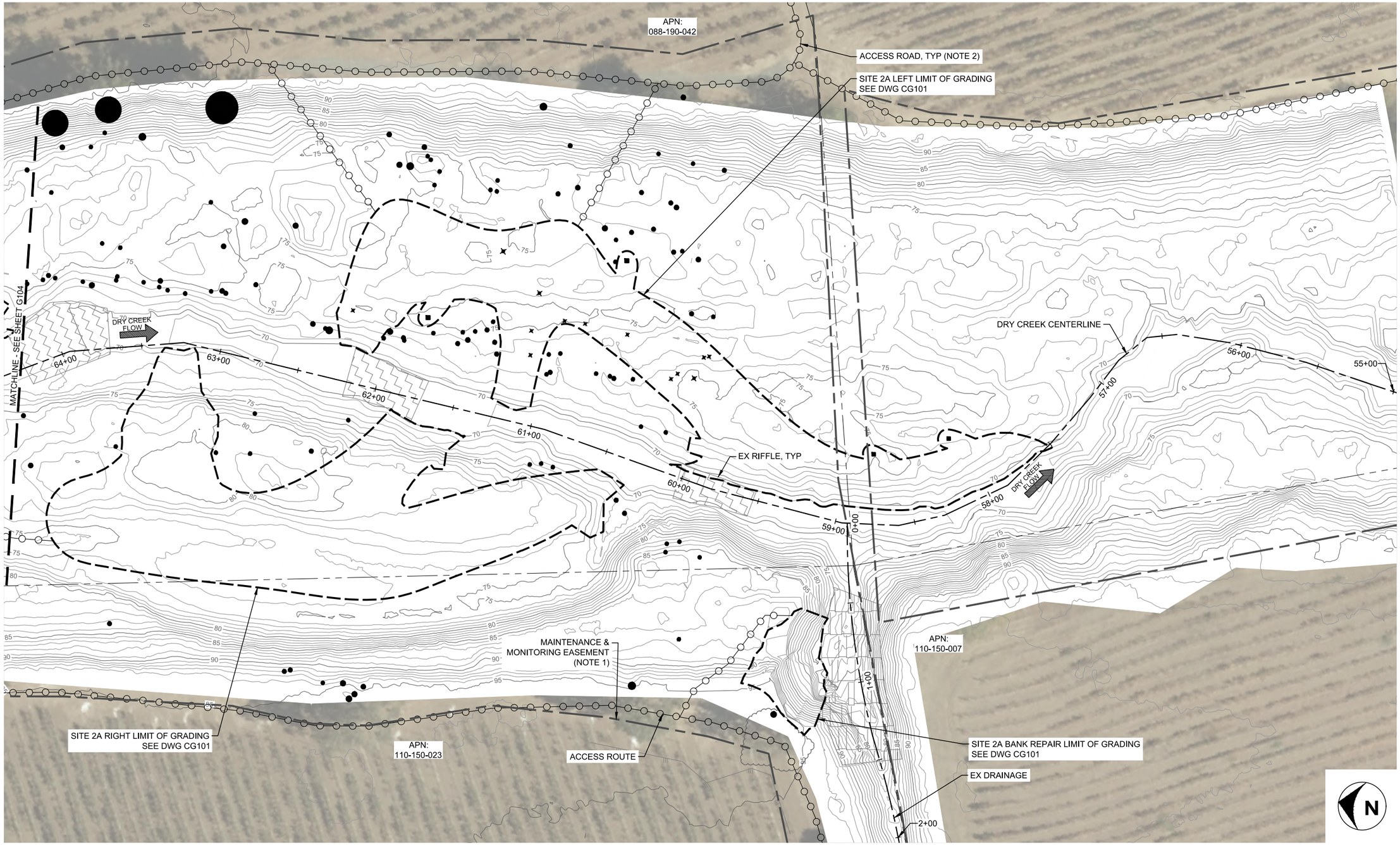
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

REACH 4C (SITES 4C AND 4D) OVERVIEW

SHEET ID
G102
4 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_G-102.dwg 04 Aug 2020 - 2:25pm

STATUS 99%



NOTES

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2. SUGGESTED ACCESS ROUTES SHOWN INTO THE CREEK ARE APPROXIMATE AND MAY BE MODIFIED BASED ON ACTUAL CONDITIONS IN THE FIELD TO MINIMIZE IMPACTS.
3. SEE SHEET CD101 FOR TREE REMOVAL.

SITE 2A EXISTING CONDITIONS

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60
SCALE FEET

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SONOMA COUNTY, CALIFORNIA
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SITE 2A EXISTING CONDITIONS

SHEET ID
G103
5 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_G\\ DC1102_SITE2A_G-103.dwg 04 Aug 2020 - 2:26pm

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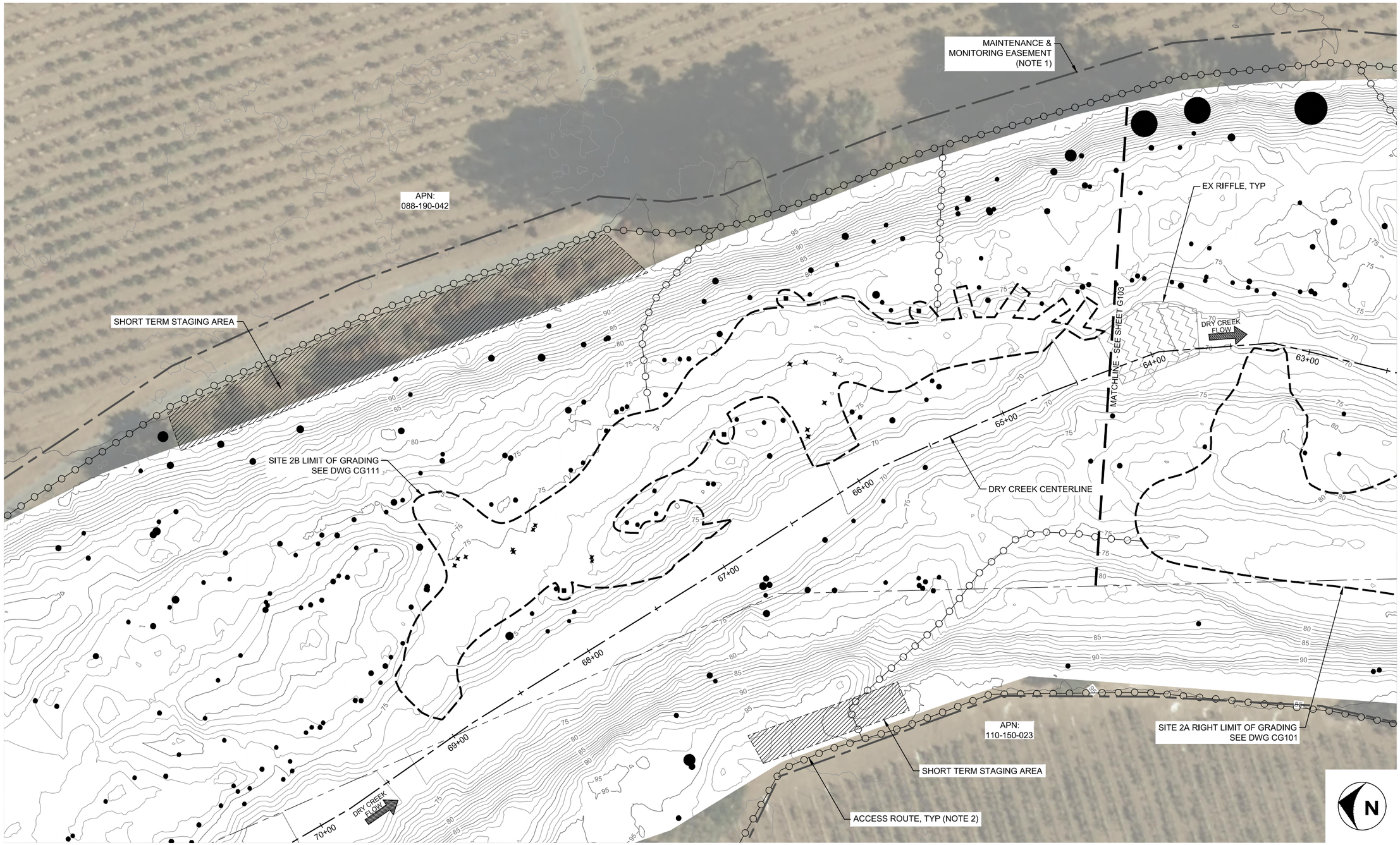

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2. SUGGESTED ACCESS ROUTES SHOWN INTO THE CREEK ARE APPROXIMATE AND MAY BE MODIFIED BASED ON ACTUAL CONDITIONS IN THE FIELD TO MINIMIZE IMPACTS.
3. SEE SHEET CD102 FOR TREE REMOVAL.

SITE 2B EXISTING CONDITIONS

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

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SONOMA COUNTY, CALIFORNIA
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SITE 2B EXISTING CONDITIONS

SHEET ID
G104
6 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2B_G-104.dwg 04 Aug 2020 - 2:26pm

STATUS 99%

NOTES

1. THE MAINTENANCE & MONITORING EASEMENTS EXTEND FROM THE BOUNDARY LINE TO THE CENTERLINE OF DRY CREEK.
2. SUGGESTED ACCESS ROUTES SHOWN INTO THE CREEK ARE APPROXIMATE AND MAY BE MODIFIED BASED ON ACTUAL CONDITIONS IN THE FIELD TO MINIMIZE IMPACTS.
3. SEE SHEET CD103 FOR TREE REMOVAL.
4. SEE PROFILE ON SHEET CG123 FOR APPROX WSE IN EXISTING ALCOVE.

SITE 4D EXISTING CONDITIONS

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60
SCALE FEET

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SONOMA COUNTY, CALIFORNIA
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SITE 4D EXISTING CONDITIONS

SHEET ID
G105
7 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_G-105.dwg 04 Aug 2020 - 2:27pm

STATUS 99%

NOTES

1. THE MAINTENANCE & MONITORING EASEMENTS EXTEND FROM THE BOUNDARY LINE TO THE CENTERLINE OF DRY CREEK.
2. SUGGESTED ACCESS ROUTES SHOWN INTO THE CREEK ARE APPROXIMATE AND MAY BE MODIFIED BASED ON ACTUAL CONDITIONS IN THE FIELD TO MINIMIZE IMPACTS.
3. SEE SHEET CD104 FOR TREE REMOVAL.

SITE 4C EXISTING CONDITIONS

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

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SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

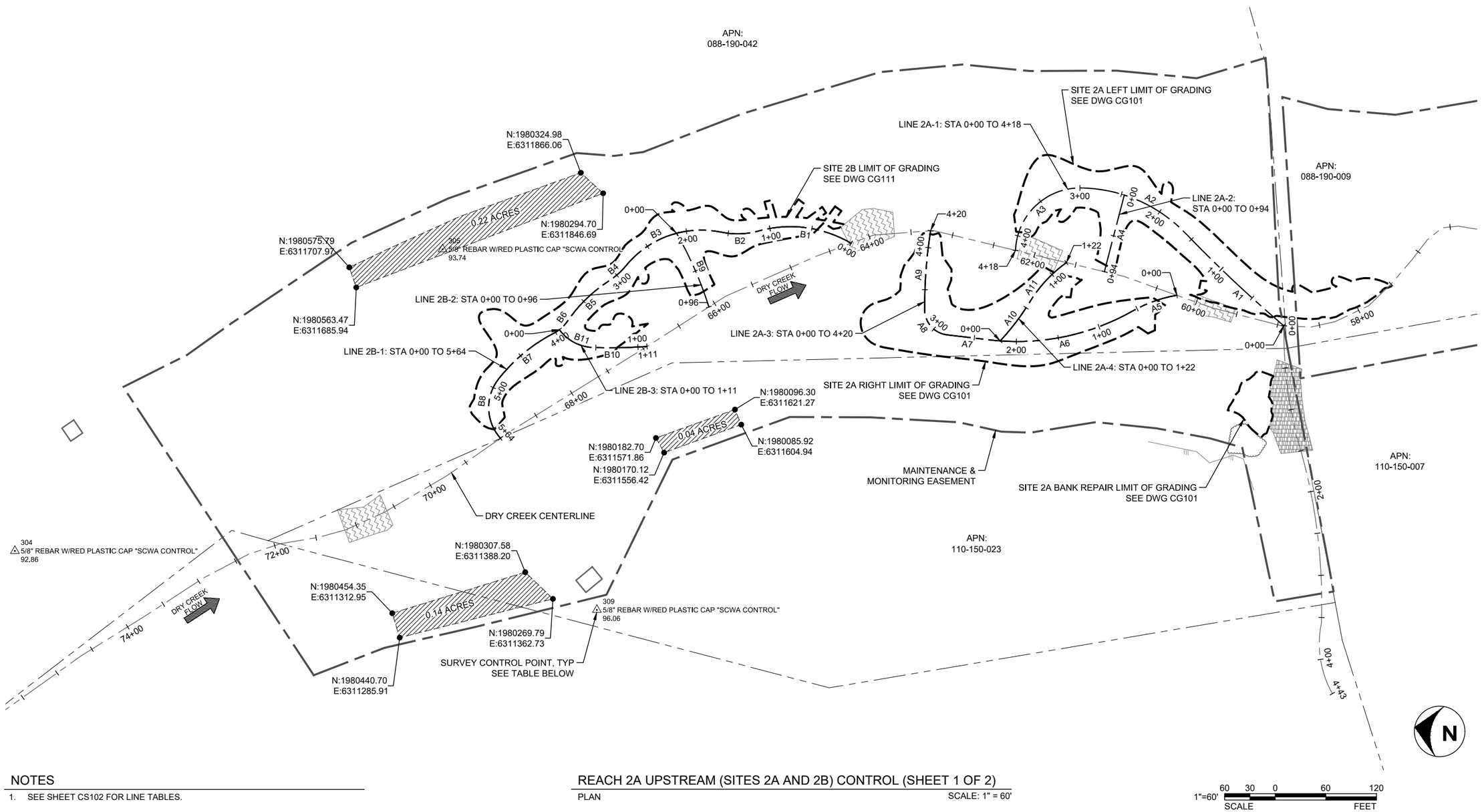
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C EXISTING CONDITIONS

SHEET ID
G106
8 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_G-106.dwg 04 Aug 2020 - 2:27pm

STATUS 99%



NOTES

1. SEE SHEET CS102 FOR LINE TABLES.

REACH 2A UPSTREAM (SITES 2A AND 2B) CONTROL (SHEET 1 OF 2)

PLAN

SCALE: 1" = 60'

1"=60' 60 30 0 60 120
SCALE FEET

POINT TABLE

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
304	5/8" REBAR W/RED PLASTIC CAP "SCWA CONTROL"	1,980,907.75	6,311,308.00	92.86
305	5/8" REBAR W/RED PLASTIC CAP "SCWA CONTROL"	1,980,470.57	6,311,748.32	93.74
309	5/8" REBAR W/RED PLASTIC CAP "SCWA CONTROL"	1,980,216.25	6,311,358.94	96.06

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

REACH 2A UPSTREAM (SITES 2A AND 2B) CONTROL (SHEET 1 OF 2)

SHEET ID
CS101
9 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2A_CS-101.dwg 04 Aug 2020 - 2:27pm

STATUS 99%

2A-1

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
A1	-0+00	6,311,832.0	1,979,472.9	---	---	160.0	1604.3	5° 42' 58"
A2	1+60	6,311,919.8	1,979,606.7	---	---	138.3	175.4	45° 10' 03"
A3	2+98	6,311,951.4	1,979,737.7	---	---	119.2	76.8	88° 58' 14"

2A-2

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
A4	0+00	6,311,951.9	1,979,686.1	N85° 27' 03"W	93.9	---	---	---

2A-3

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
A5	0+00	6,311,845.7	1,979,604.1	---	---	56.2	161.9	19° 52' 33"
A6	0+56	6,311,818.0	1,979,652.6	---	---	176.3	276.9	36° 29' 03"
A7	2+33	6,311,755.0	1,979,814.1	---	---	50.1	12866.4	0° 13' 23"
A8	2+83	6,311,752.2	1,979,864.1	---	---	43.4	30.0	82° 50' 52"
A9	3+26	6,311,776.7	1,979,895.4	---	---	94.3	570.3	9° 28' 19"

2A-4

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
A10	-0+00	6,311,756.0	1,979,800.9	---	---	57.6	279.0	11° 49' 49"
A11	0+58	6,311,807.1	1,979,774.5	---	---	64.7	161.0	23° 00' 59"

2B-1

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
B1	-0+00	6,311,839.3	1,979,994.9	---	---	113.9	141.1	46° 15' 45"
B2	1+14	6,311,834.6	1,980,105.7	---	---	44.3	92.1	27° 35' 05"
B3	1+58	6,311,825.6	1,980,148.7	---	---	125.8	115.1	62° 35' 13"
B4	2+84	6,311,767.1	1,980,253.0	---	---	28.0	90.2	17° 46' 56"
B5	3+12	6,311,745.2	1,980,270.3	---	---	68.0	171.2	22° 45' 40"
B6	3+80	6,311,690.4	1,980,309.8	---	---	22.4	45.6	28° 09' 18"
B7	4+02	6,311,673.1	1,980,323.6	---	---	85.9	199.7	24° 39' 30"
B8	4+88	6,311,608.0	1,980,378.7	---	---	76.0	54.5	79° 51' 17"

2B-2

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
B9	-0+00	6,311,815.1	1,980,200.8	---	---	95.6	442.7	12° 22' 28"

2B-3

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
B11	-0+00	6,311,678.4	1,980,317.7	---	---	46.9	51.9	51° 45' 34"
B10	0+47	6,311,664.6	1,980,274.6	---	---	63.8	610.5	5° 59' 20"

LINE TABLES FOR SITES 2A & 2B

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102

DESIGNED BY: JQW, MAS
DRAWN BY: MAS
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

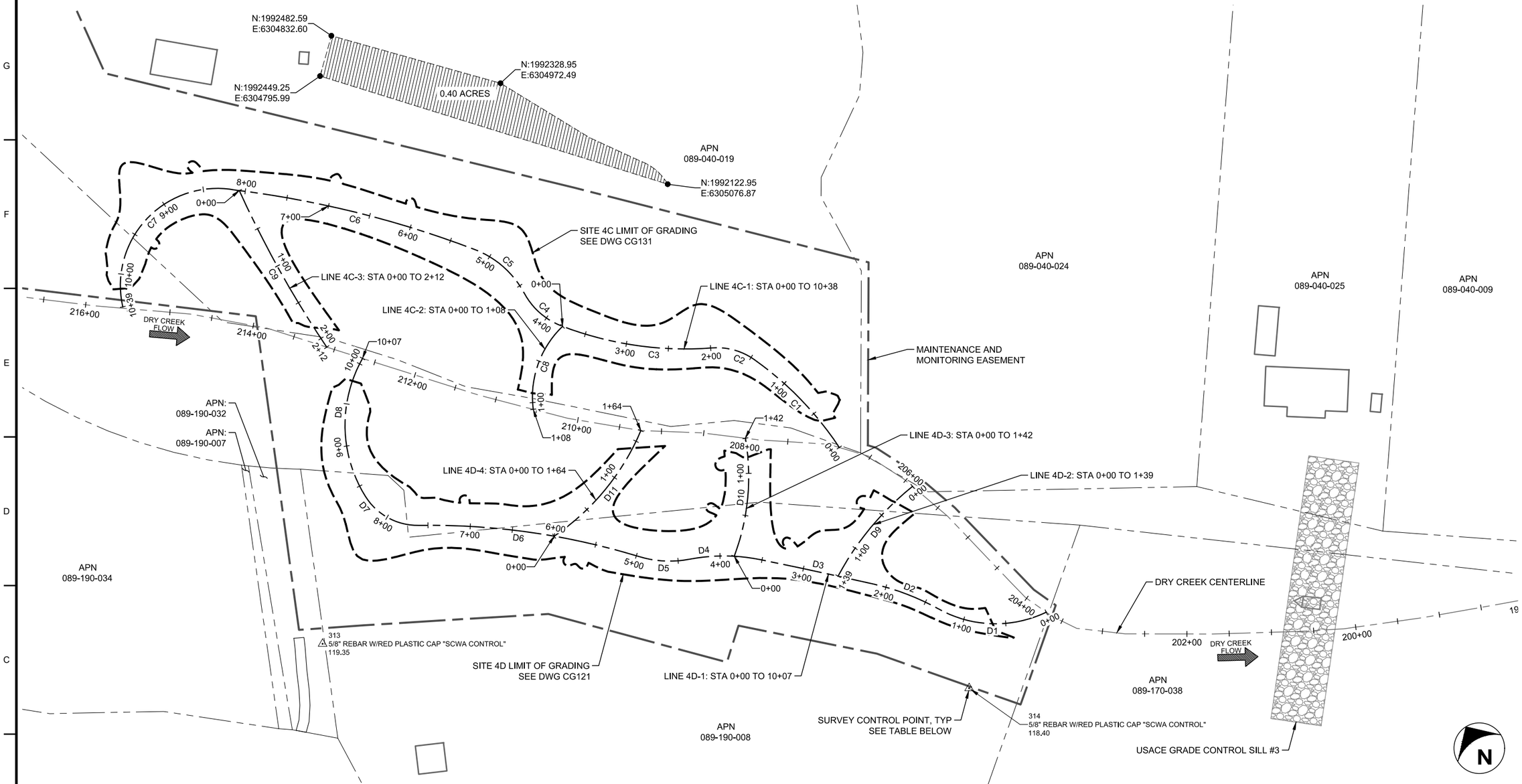
ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

REACH 2A UPSTREAM (SITES 2A AND 2B) CONTROL (SHEET 2 OF 2)

SHEET ID
CS102
10 OF 53

STATUS 99%



NOTES

1. SEE SHEET CS104 FOR LINE TABLES.

REACH 4C (SITES 4C AND 4D) CONTROL (SHEET 1 OF 2)

PLAN

SCALE: 1" = 60'

1"=60' 60 30 0 60 120
SCALE FEET

POINT TABLE

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
313	5/8" REBAR W/RED PLASTIC CAP "SCWA CONTROL"	1,991,878.22	6,304,442.67	119.35
314	5/8" REBAR W/RED PLASTIC CAP "SCWA CONTROL"	1,991,428.50	6,305,063.35	118.40

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

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U.S. ARMY CORPS OF ENGINEERS
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SAN FRANCISCO, CA 94102-3406

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SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

REACH 4C (SITES 4C AND 4D) CONTROL (SHEET 1 OF 2)

SHEET ID
CS103
11 OF 53

STATUS 99%

4C-1

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
C1	0+00	6,305,084.0	1,991,751.3	---	---	145.6	390.8	21° 20' 44"
C2	1+46	6,305,053.7	1,991,892.9	---	---	52.5	75.7	39° 44' 38"
C3	1+98	6,305,018.9	1,991,930.8	---	---	182.1	407.5	25° 36' 08"
C4	3+80	6,304,881.2	1,992,047.7	---	---	59.6	83.8	40° 42' 50"
C5	4+40	6,304,864.7	1,992,103.6	---	---	79.9	111.6	40° 59' 19"
C6	5+20	6,304,842.3	1,992,178.5	---	---	292.6	1210.1	13° 51' 10"
C7	8+12	6,304,639.3	1,992,388.2	---	---	226.9	114.7	113° 19' 33"

4C-2

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
C8	0+00	6,304,882.3	1,992,046.2	---	---	108.0	115.6	53° 29' 46"

4C-3

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
C9	-0+00	6,304,643.2	1,992,385.0	---	---	212.3	1271.6	9° 34' 04"

4D-1

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
D1	0+00	6,305,188.3	1,991,456.4	---	---	132.0	137.8	54° 53' 35"
D2	1+32	6,305,082.6	1,991,526.8	---	---	83.1	291.9	16° 18' 19"
D3	2+15	6,305,032.7	1,991,592.8	---	---	137.2	6521.2	1° 12' 19"
D4	3+52	6,304,934.3	1,991,688.5	---	---	84.0	213.4	22° 32' 19"
D5	4+36	6,304,863.8	1,991,733.0	---	---	60.8	124.4	27° 59' 24"
D6	4+97	6,304,814.6	1,991,767.6	---	---	264.0	841.8	17° 57' 58"
D7	7+61	6,304,613.3	1,991,936.7	---	---	75.2	73.0	59° 04' 03"
D8	8+36	6,304,578.0	1,991,999.4	---	---	171.1	159.7	61° 22' 38"

4D-2

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
D9	-0+00	6,305,133.0	1,991,666.4	---	---	138.9	347.5	22° 53' 41"

4D-3

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
D10	0+00	6,304,910.4	1,991,708.1	---	---	141.8	266.4	30° 30' 13"

4D-4

SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE	CURVE DISTANCE	CURVE RADIUS	DELTA ANGLE
D11	-0+00	6,304,742.4	1,991,841.1	---	---	163.8	283.9	33° 03' 27"

LINE TABLES FOR SITES 4C & 4D

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-22-C-XXXX
DRAWING NO.: DC-1-102

DESIGNED BY: JQW, MAS
DRAWN BY: MAS
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

REACH 4C (SITES 4C AND 4D) CONTROL (SHEET 2 OF 2)

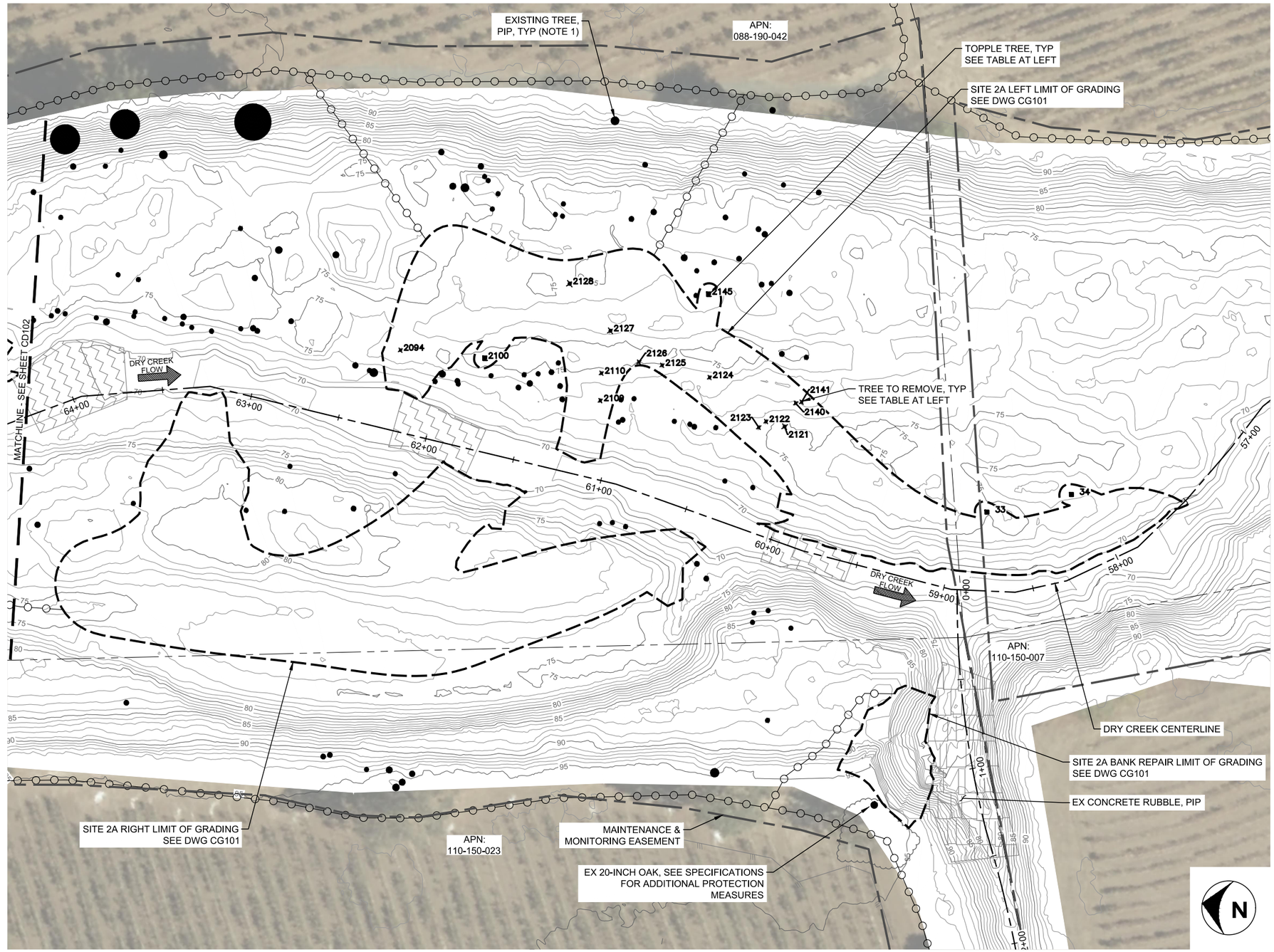
SHEET ID
CS104
12 OF 53

TREE REMOVAL TABLE	
TREE #	SPECIES
2094	12" WILO
2109	12" ALDR
2110	12" WILO
2121	16" WILO
2122	12" ALDR
2123	12" ALDR
2124	12" CTNWD
2125	12" CTNWD
2126	12" ALDR (2)
2127	16" CTNWD
2128	18" CTNWD
2140	12" ALDR
2141	12" ALDR

TOPPLE TREES	
TREE #	SPECIES
33	12" TREE (VIF)
34	12" TREE (VIF)
2100	14" ALDR
2145	14" WILO (2)

TREE ABBREVIATIONS

1. ALDR (ALDER)
2. CTNWD (COTTONWOOD)
3. WILO (WILLOW)



SITE 2A TREE REMOVAL

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

NOTES

1. TREES NOT MARKED FOR REMOVAL MUST BE PROTECTED IN PLACE.
2. ADJUST GRADING LIMITS AND ACCESS ROUTES TO PROTECT TREES NOT MARKED FOR REMOVAL.
3. SYMBOLS FOR EX TREES ARE PROPORTIONAL TO APPROXIMATE TREE DIAMETER.
4. ONLY TREES 12-INCH DIA OR GREATER ARE SHOWN.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
DRAWN BY: MAS
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ISSUE DATE: AUG 2020
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SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2A TREE REMOVAL

SHEET ID
CD101
13 OF 53

STATUS 99%

TREE REMOVAL TABLE	
TREE #	SPECIES
2021	14" CTNWD
2022	14" CTNWD
2023	14" WILO
2024	14" WILO
2025	14" WILO
2026	12" WILO (2)
2201	10" ALDR (3)
2202	12" ALDR
2210	12" WILO LEANS W
2211	12" WILO LEANS W
2212	12" WILO
2213	14" WILO
2214	12" ALDR
2215	12" ALDR
2216	12" ALDR

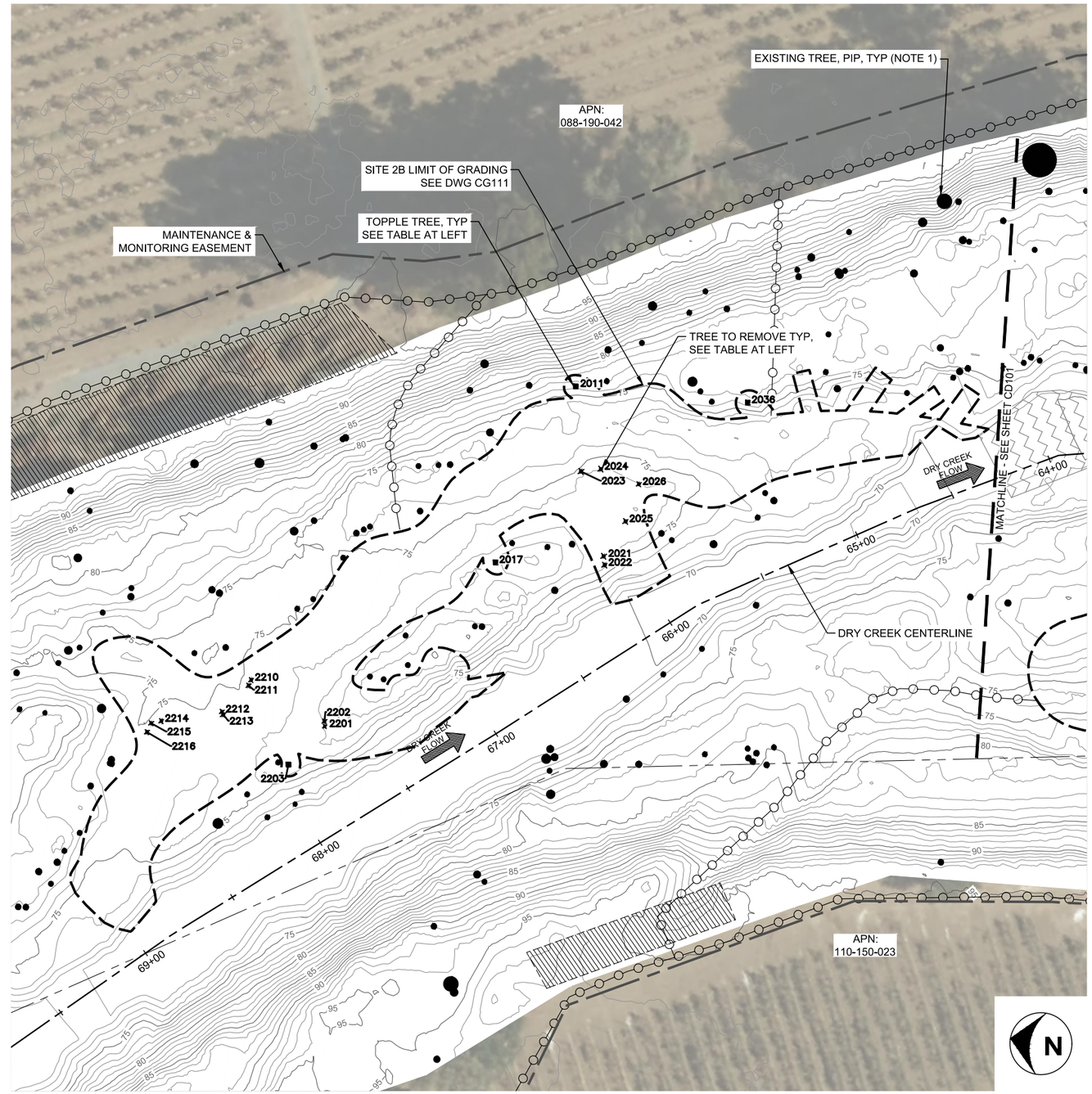
TOPPLE TREES	
TREE #	SPECIES
2011	12" WILO LEANS W
2017	12" WILO
2036	12" WILO
2203	12" WILO

TREE ABBREVIATIONS

1. ALDR (ALDER)
2. CTNWD (COTTONWOOD)
3. WILO (WILLOW)

NOTES

1. TREES NOT MARKED FOR REMOVAL MUST BE PROTECTED IN PLACE.
2. ADJUST GRADING LIMITS AND ACCESS ROUTES TO PROTECT TREES NOT MARKED FOR REMOVAL.
3. SYMBOLS FOR EX TREES ARE PROPORTIONAL TO APPROXIMATE TREE DIAMETER.
4. ONLY TREES 12-INCH DIA OR GREATER ARE SHOWN.



SITE 2B TREE REMOVAL

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
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SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2B TREE REMOVAL

SHEET ID
CD102
14 OF 53

STATUS 99%

SITE 4D TREE REMOVAL

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60
SCALE FEET

TREE REMOVAL TABLE	
TREE #	SPECIES
2954	16" ALDR (2)
2955	14" CTNWD
2956	14" ALDR
2957	12" ALDR
2958	14" WILO
2959	14" ALDR
2960	18" ALDR
2961	12" WILO
2962	12" ALDR
2963	14" ALDR
2964	12" ALDR
2965	16" ALDR
2966	14" WILO

TREE REMOVAL TABLE	
TREE #	SPECIES
2967	12" WILO
2968	14" ALDR
2969	14" ALDR
2972	12" ALDR
2973	12" ALDR
2974	14" ALDR
2975	12" ALDR
2992	12" WILO
2993	12" WILO
3007	12" ALDR
3008	12" WILO
3027	14" WILO
3028	12" ASH
3031	12" WILO

TREE REMOVAL TABLE	
TREE #	SPECIES
3036	12" WILO
3044	18" ALDR
3049	12" WILO
3084	12" ALDR
3085	12" ALDR (2)
3095	16" WILO LEANS W
3096	16" ALDR
3098	12" CTNWD
3099	12" WILO
3100	12" CTNWD
3101	12" CTNWD
3102	12" WILO
3162	14" ALDR
3163	12" ALDR

TREE REMOVAL TABLE	
TREE #	SPECIES
3164	12" ALDR
3165	16" ALDR
3166	12" ALDR
3167	12" ALDR
3168	12" WILO
3169	14" ALDR
3170	14" ALDR (2)

TOPPLE TREES	
TREE #	SPECIES
2976	18" ALDR
3009	12" WILO
3034	14" WILO
3035	16" ALDR
3048	12" WILO
3145	18" WILO

TREE ABBREVIATIONS

1. ALDR (ALDER)
2. CTNWD (COTTONWOOD)
3. WILO (WILLOW)

NOTES

1. TREES NOT MARKED FOR REMOVAL MUST BE PROTECTED IN PLACE.
2. ADJUST GRADING LIMITS AND ACCESS ROUTES TO PROTECT TREES NOT MARKED FOR REMOVAL.
3. SYMBOLS FOR EX TREES ARE PROPORTIONAL TO APPROXIMATE TREE DIAMETER.
4. ONLY TREES 12-INCH DIA OR GREATER ARE SHOWN.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JGW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
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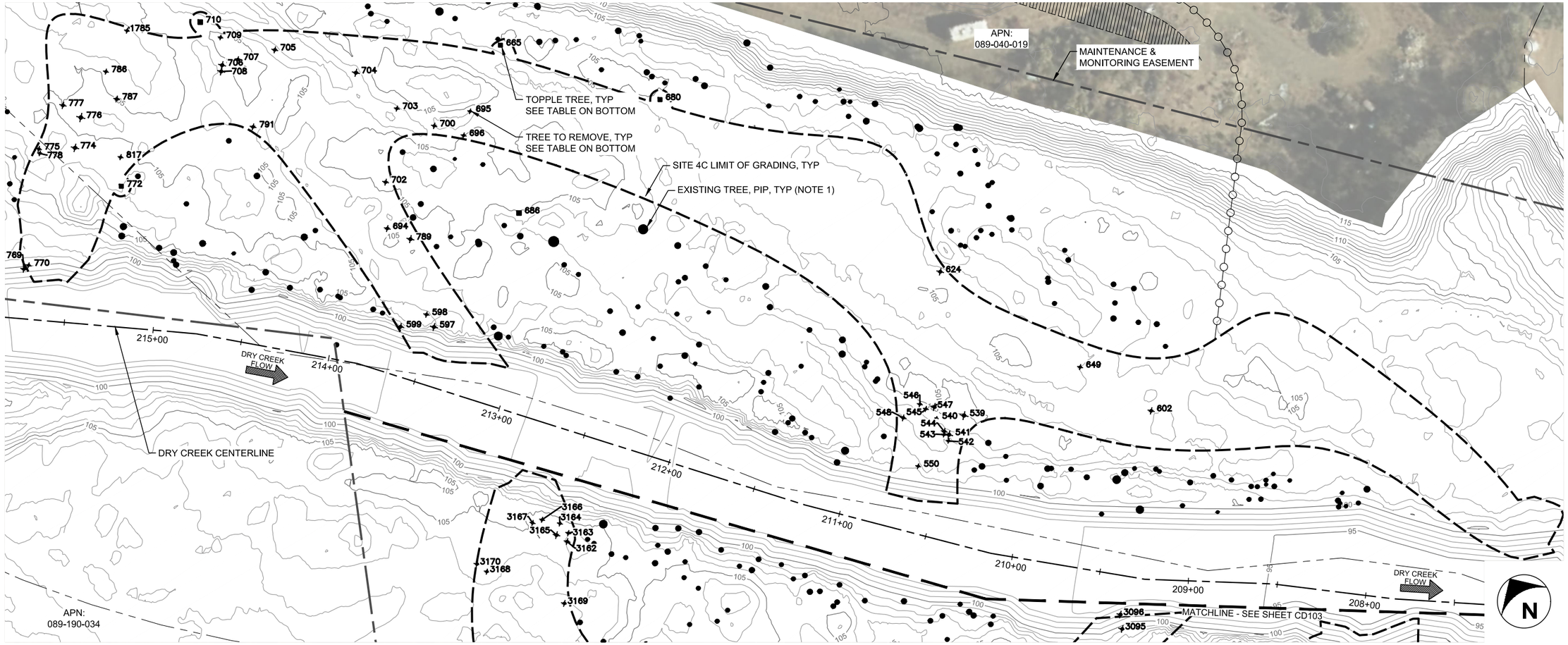
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D TREE REMOVAL

SHEET ID
CD103
15 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_CD-103.dwg 04 Aug 2020 - 2:30pm

STATUS 99%



SITE 4C TREE REMOVAL

PLAN

SCALE: 1" = 30'

1"=30' SCALE 30 15 0 30 60 FEET

TREE REMOVAL TABLE	
TREE #	SPECIES
539	19" ALRH
540	8" ACNE 7
541	18" SALA
542	11" ALRH 8
543	11" ALRH
544	14" ALRH
545	12" ALRH
546	12" ALRH
547	17" POFR prostrate tagged to
548	14" ALRH tagged to west
550	11" ALRH 8
597	17" ALRH
598	13" SALA
599	15" ALRH
602	15" POFR 11 9
624	16" ALRH
649	12" SALA
694	14" ALRH 12

TREE REMOVAL TABLE	
TREE #	SPECIES
695	11" ALRH 11 11 9
696	12" POFR
700	13" POFR
702	14" ALRH
703	12" POFR
704	17" ALRH
705	14" ALRH
706	17" ALRH 6
707	13" SALA
708	17" ALRH
709	11" ALRH 10
769	15" ALRH 14 9
770	12" ALRH
774	18" POFR
775	13" SALA
776	20" ALRH
777	15" ALRH
778	11" SALA 5

TREE REMOVAL TABLE	
TREE #	SPECIES
786	12" POFR
787	14" SALA
789	17" POFR
791	14" POFR tagged on west
817	12" SALA
1785	12" POFR

TOPPLE TREES	
TREE #	SPECIES
665	12" SALA
680	12" SALA
710	14" SALA
772	12" SALA tagged on west

TREE ABBREVIATIONS

1. ACNE (BOX ELDER)
2. ALRH (ALDER)
3. POFR (COTTONWOOD)
4. SALA (WILLOW)

NOTES

1. TREES NOT MARKED FOR REMOVAL MUST BE PROTECTED IN PLACE.
2. ADJUST GRADING LIMITS AND ACCESS ROUTES TO PROTECT TREES NOT MARKED FOR REMOVAL.
3. SYMBOLS FOR EX TREES ARE PROPORTIONAL TO APPROXIMATE TREE DIAMETER.
4. ONLY TREES 12-INCH DIA OR GREATER ARE SHOWN.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: GW
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SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
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450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

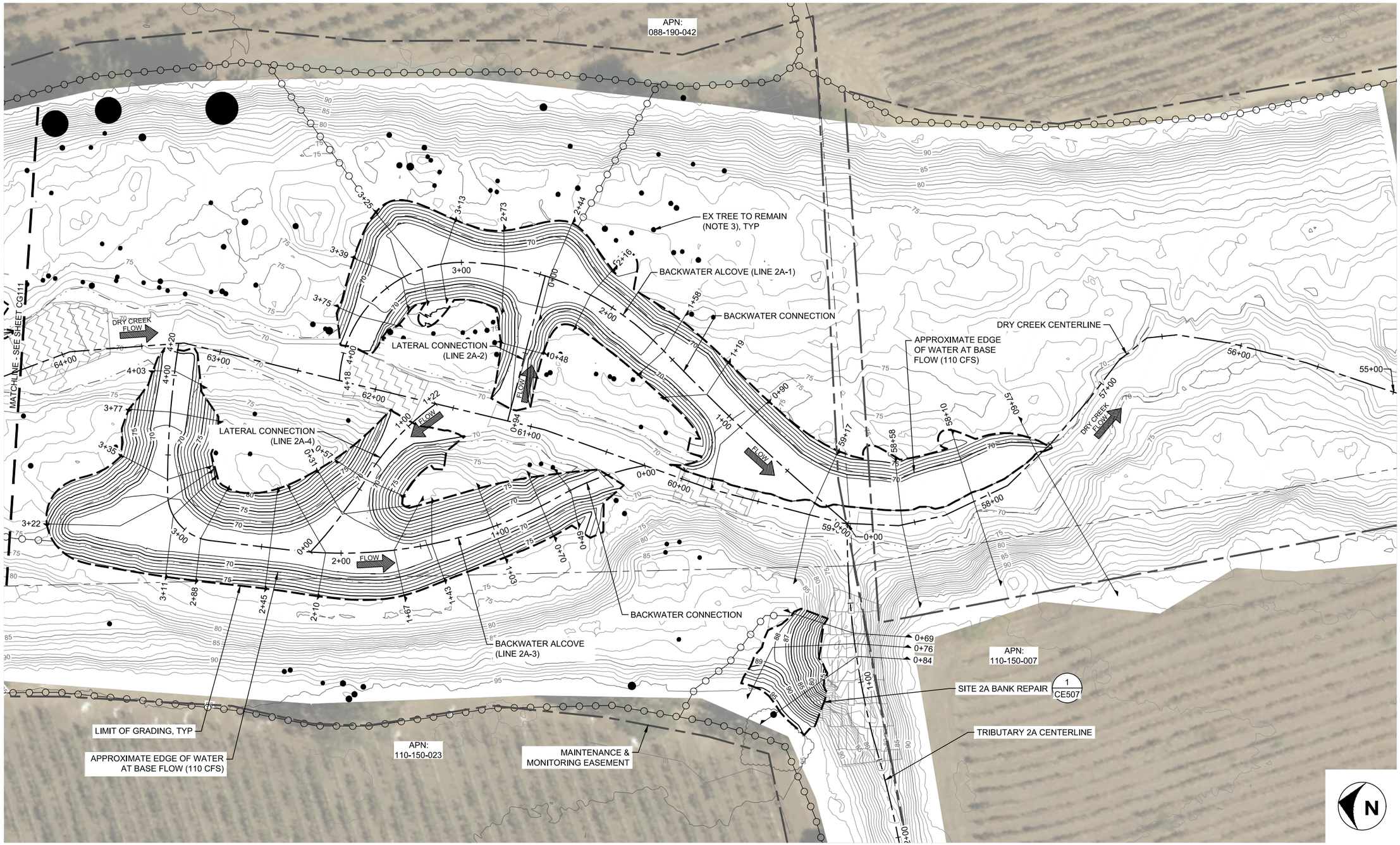
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C TREE REMOVAL

SHEET ID
CD104
16 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_CD-104.dwg 04 Aug 2020 - 2:30pm

STATUS 99%



NOTES

1. SEE DWG CG103 FOR GRADING PROFILES.
2. SEE DWGS CG104 TO CG107 FOR GRADING SECTIONS.
3. ADJUST GRADING LIMITS TO PROTECT TREES NOT MARKED FOR REMOVAL (SEE DWG CD101).

SITE 2A GRADING PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60
SCALE FEET

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SUBMITTED BY: XXX
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SAN FRANCISCO, CA 94102-3406

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PETALUMA, CA 94108

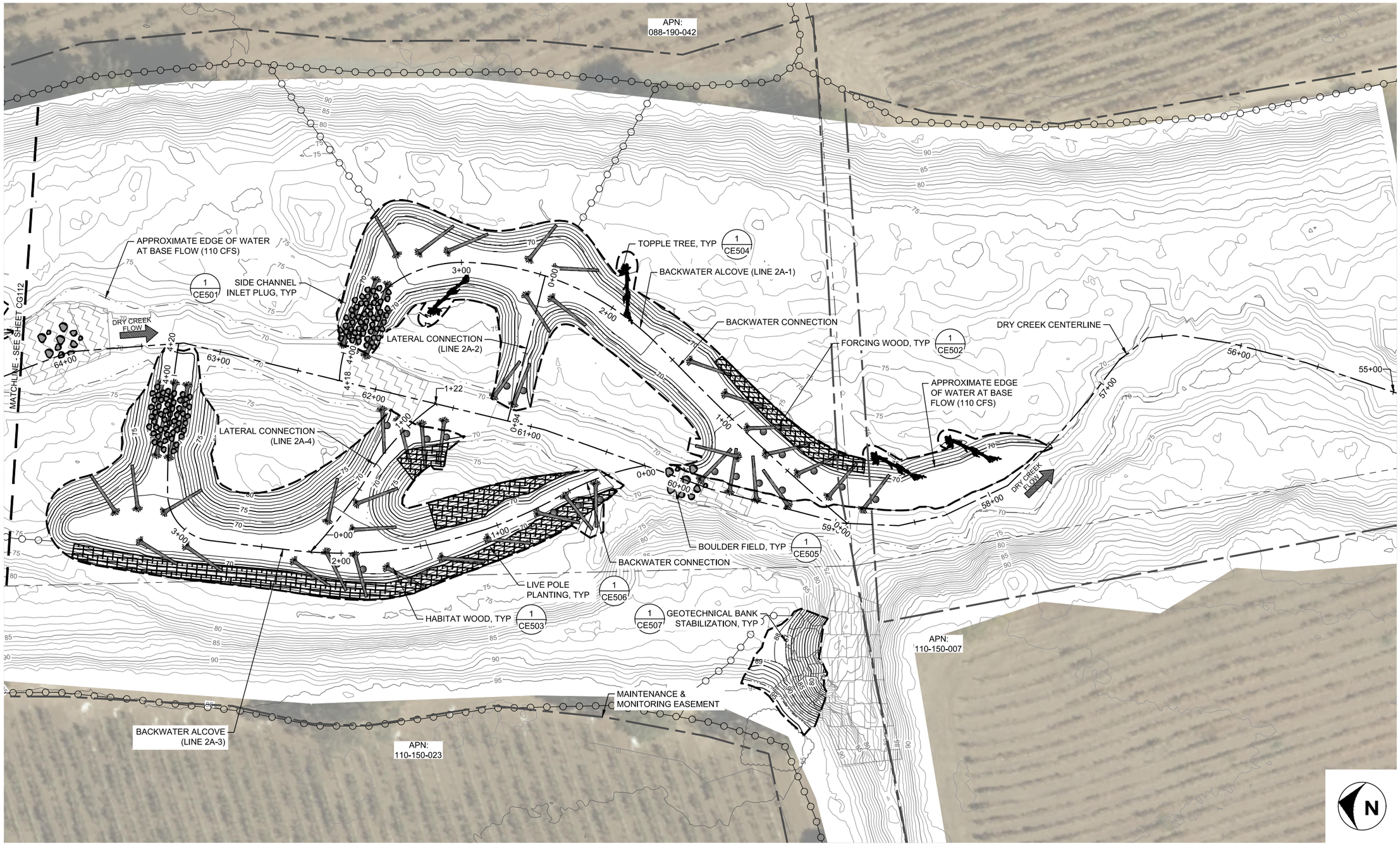
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2A GRADING PLAN

SHEET ID
CG101
17 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2A_CG101.dwg 04 Aug 2020 - 2:31pm

STATUS 99%



NOTES

1. THE LOCATION AND ORIENTATION OF SOME ENHANCEMENT FEATURES MAY REQUIRE MINOR FIELD ADJUSTMENTS DURING CONSTRUCTION.

SITE 2A ENHANCEMENT PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

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SUBMITTED BY: XXX
SIZE: ANSI D

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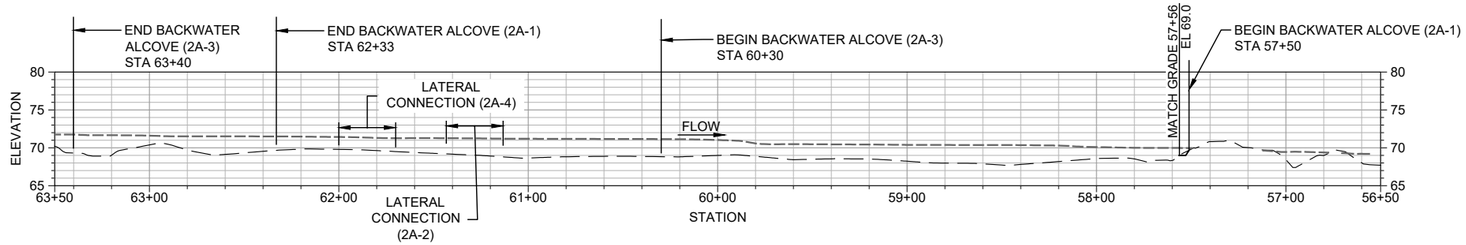
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2A ENHANCEMENT PLAN

SHEET ID
CG102
18 OF 53

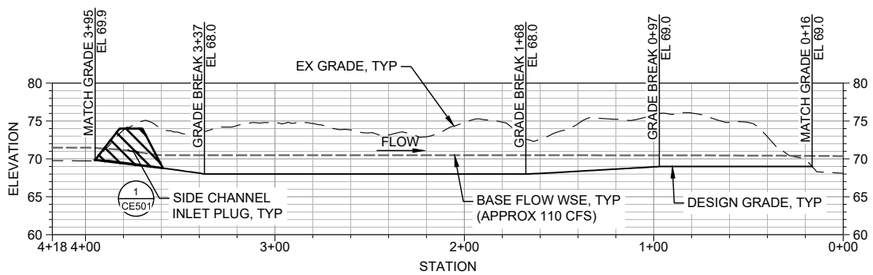
K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2A_CG102.dwg 04 Aug 2020 - 2:32pm

STATUS 99%



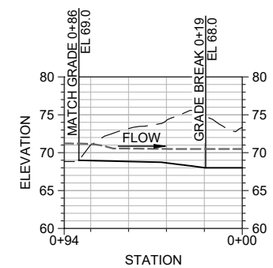
DRY CREEK MAIN CHANNEL

PROFILE — SCALE: 1" = 40' H, 1" = 10' V



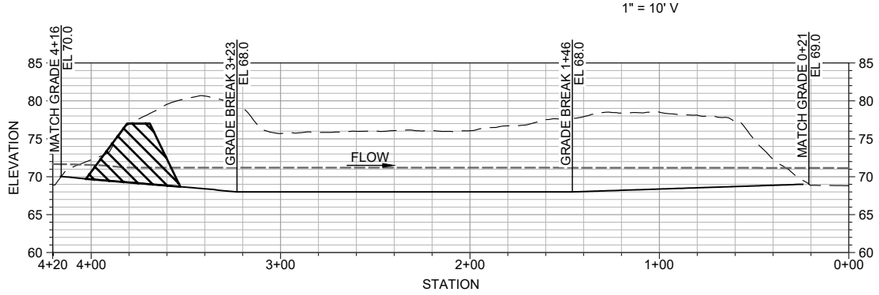
SITE 2A BACKWATER ALCOVE (LINE 2A-1)

PROFILE — SCALE: 1" = 40' H, 1" = 10' V



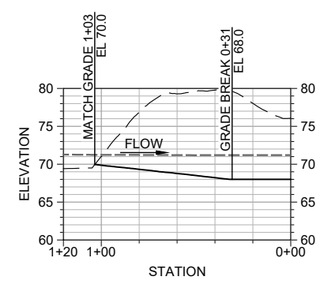
SITE 2A LATERAL CONNECTION (LINE 2A-2)

PROFILE — SCALE: 1" = 40' H, 1" = 10' V



SITE 2A BACKWATER ALCOVE (LINE 2A-3)

PROFILE — SCALE: 1" = 40' H, 1" = 10' V



SITE 2A LATERAL CONNECTION (LINE 2A-4)

PROFILE — SCALE: 1" = 40' H, 1" = 10' V

1"=40' 40 20 0 40 80 SCALE FEET HORIZONTAL

1"=10' 10 5 0 10 20 SCALE FEET VERTICAL

NOTES

1. SEE DWGS CG101 & CG102 FOR ALIGNMENT LAYOUT.
2. CHANNEL STATIONING IS APPROXIMATE. CONTOUR GRADING GOVERNS.

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PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

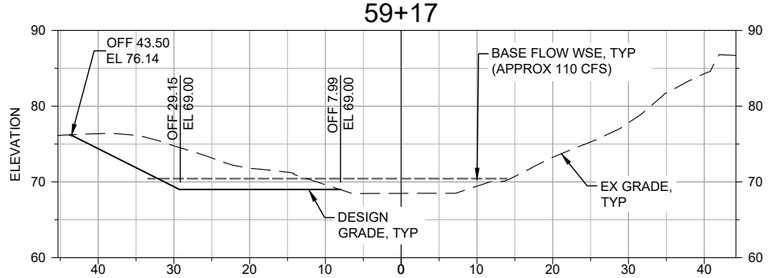
SITE 2A GRADING PROFILES

SHEET ID
CG103
19 OF 53

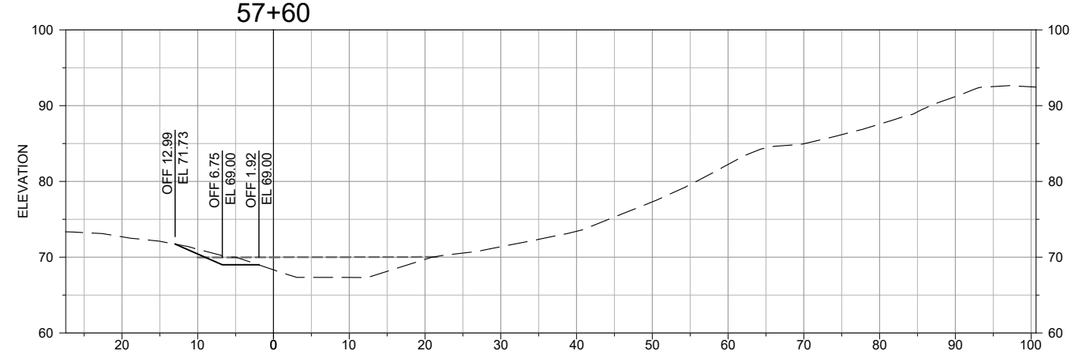
K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2A_CG103.dwg 04 Aug 2020 - 2:32pm

STATUS 99%

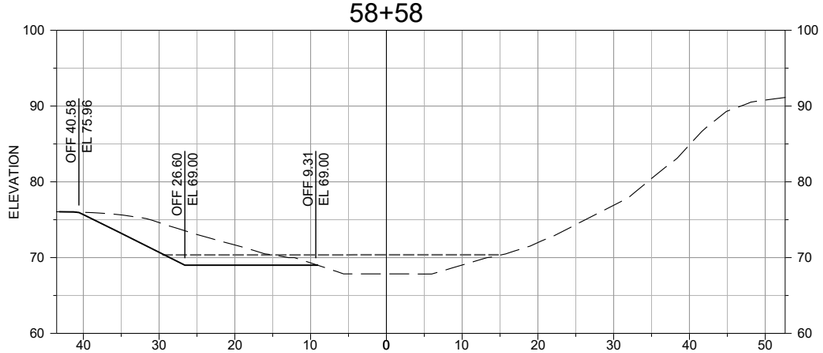
59+17



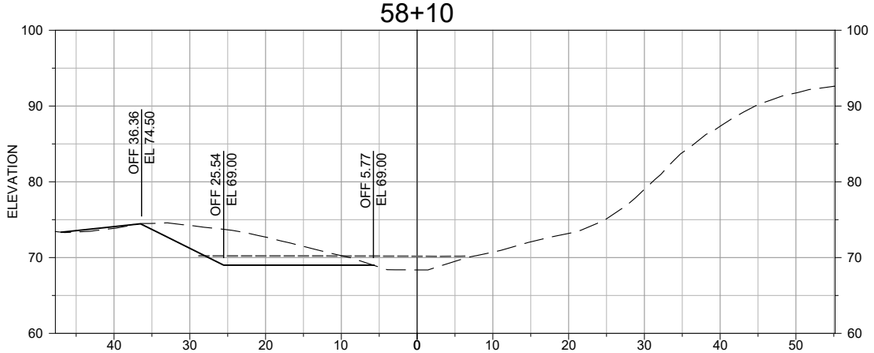
57+60



58+58



58+10



SITE 2A MAIN CHANNEL STA 59+17 TO 57+60

SECTION

SCALE: 1" = 10' H
1" = 10' V

1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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PETALUMA, CA 94108

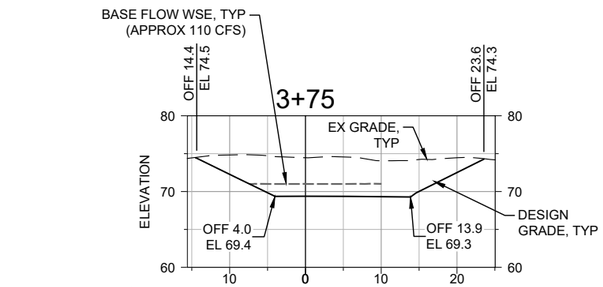
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

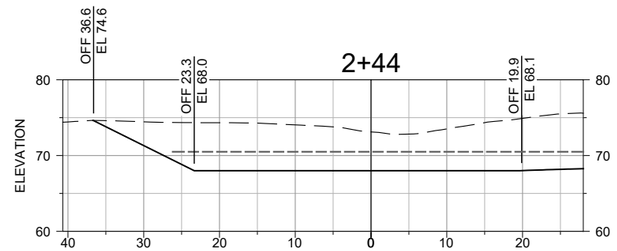
SITE 2A SECTIONS (SHEET 1 OF 4)

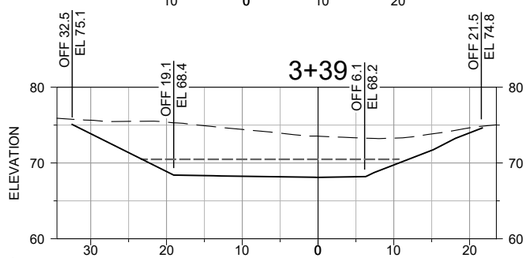
SHEET ID
CG104
20 OF 53

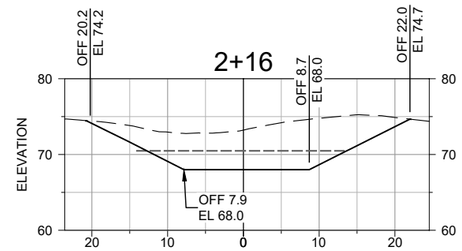
K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2A_CG104.dwg 04 Aug 2020 - 2:33pm

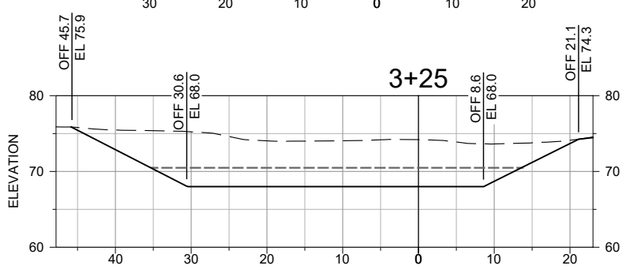
STATUS 99%

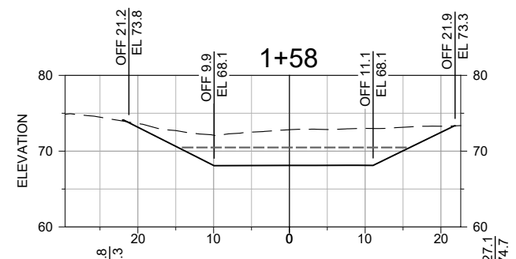


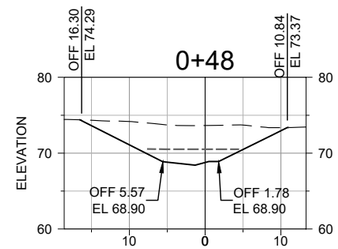


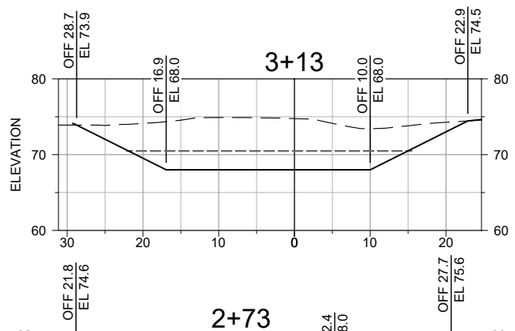


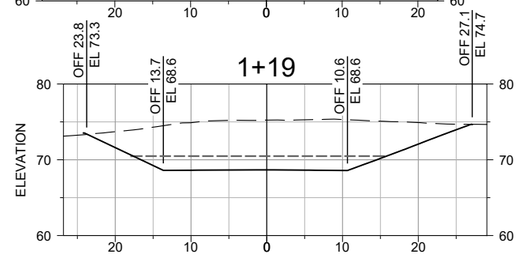








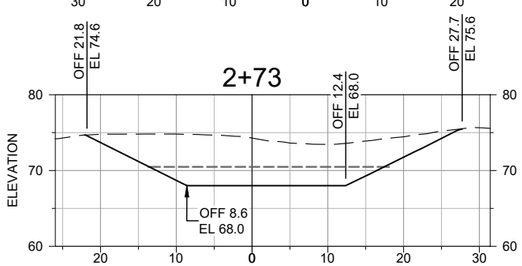


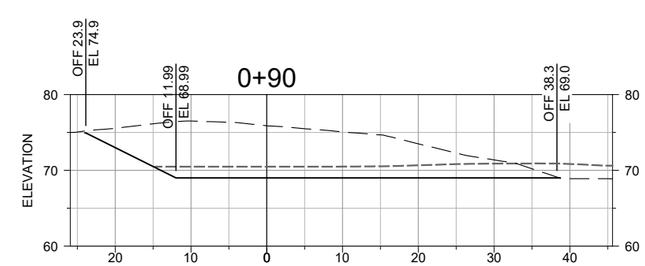


SITE 2A LATERAL CONNECTION (LINE 2A-2) STA 0+48

SECTION

SCALE: 1" = 10' H
1" = 10' V





1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

SITE 2A BACKWATER ALCOVE (LINE 2A-1) STA 3+75 TO 0+90

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

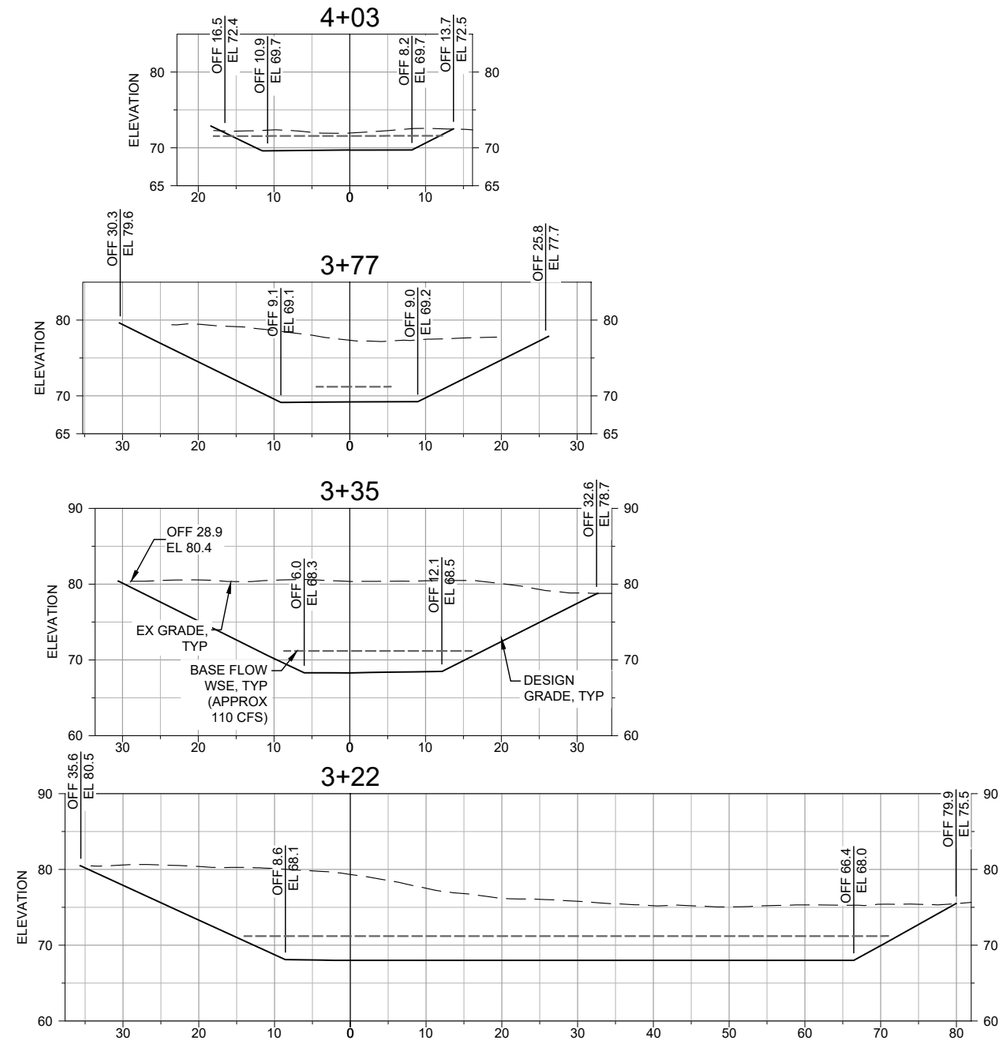
ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

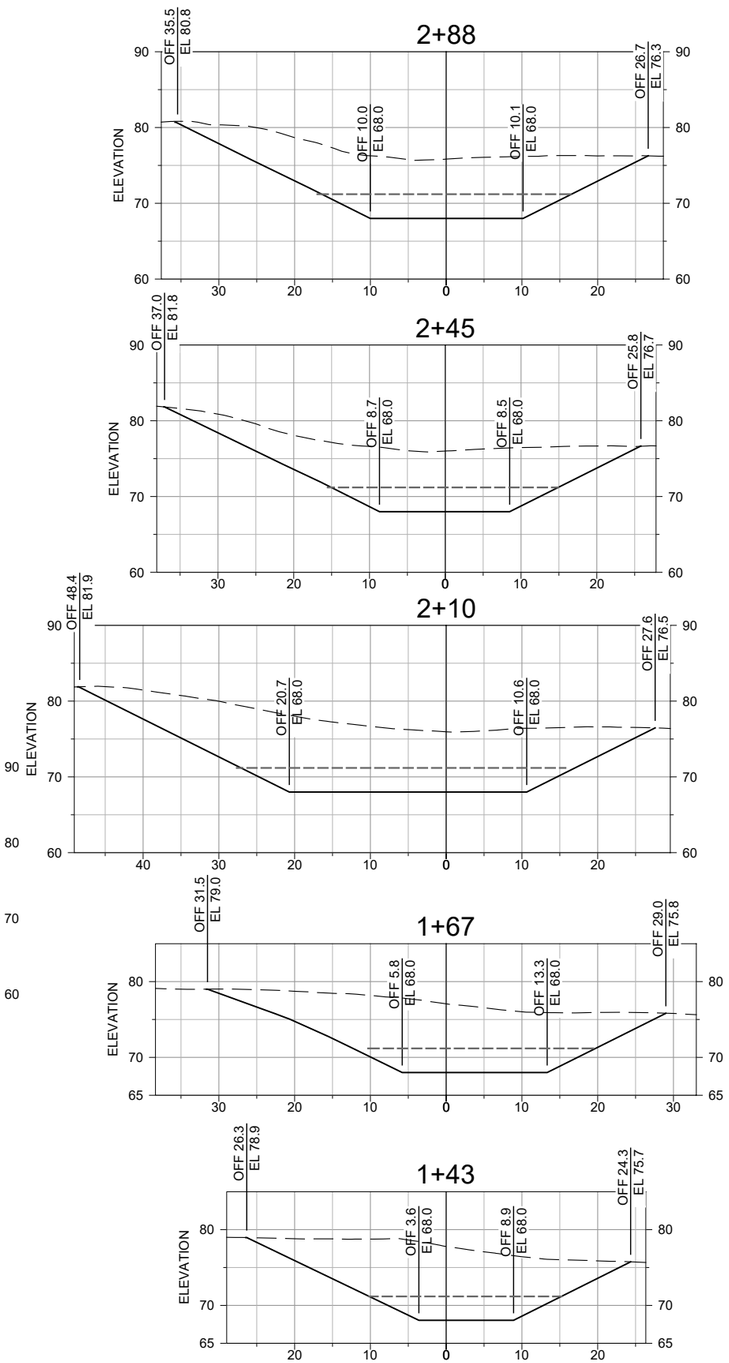
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

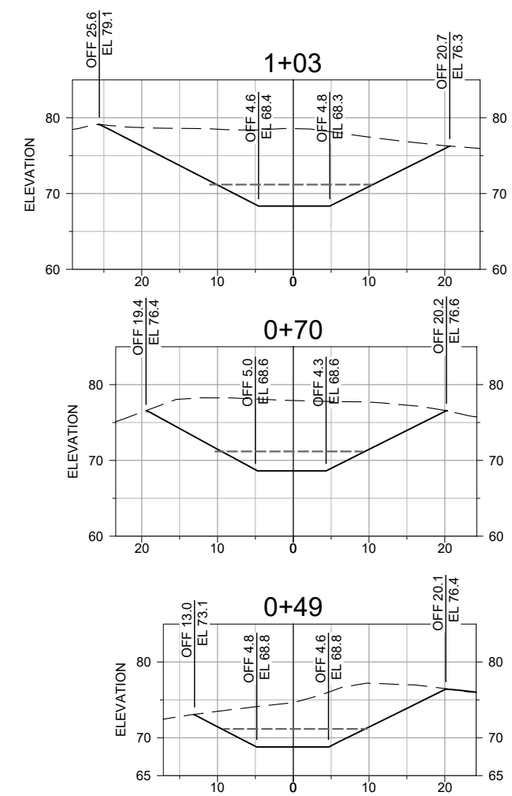
SITE 2A SECTIONS (SHEET 2 OF 4)

SHEET ID
CG105
21 OF 53

STATUS 99%







1"=10' 10 5 0 10 20 SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20 SCALE FEET
VERTICAL

SITE 2A LATERAL CONNECTION (LINE 2A-3) STA 4+03 TO 0+49

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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SONOMA COUNTY, CALIFORNIA
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SITE 2A SECTIONS (SHEET 3 OF 4)

SHEET ID
CG106
22 OF 53

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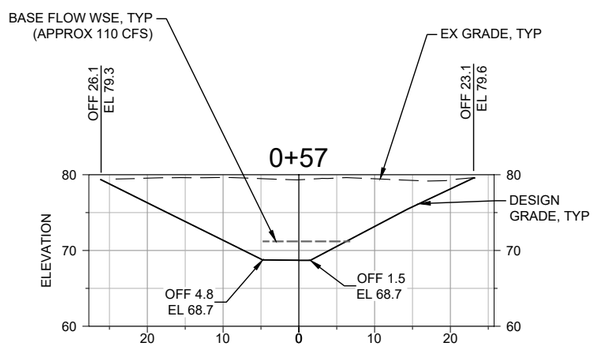
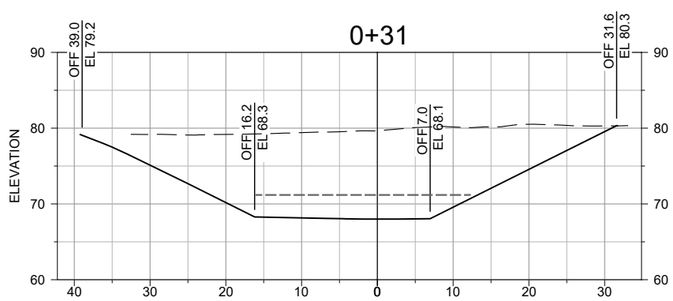
STATUS 99%

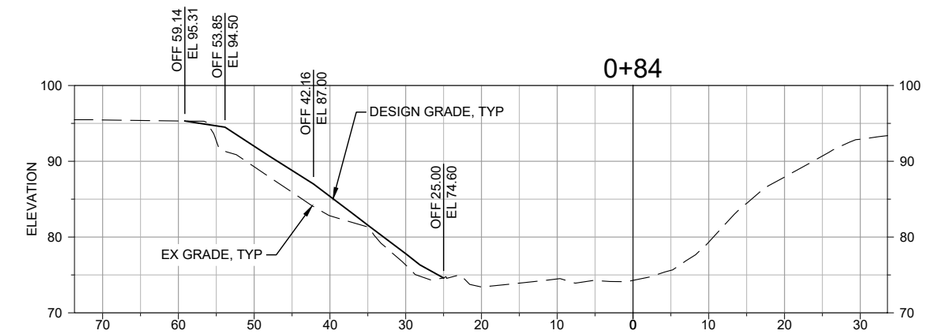


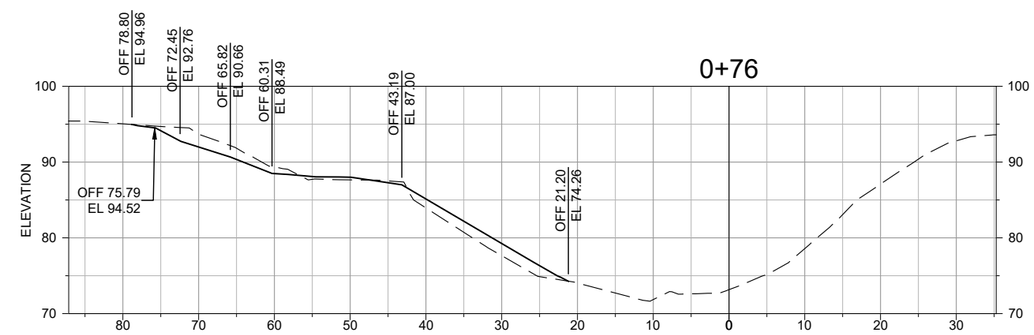


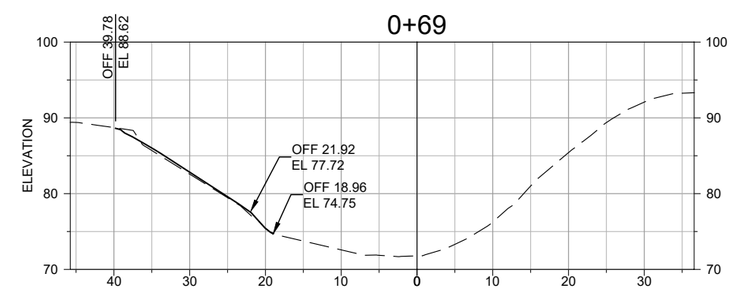
SITE 2A LATERAL CONNECTION (LINE 2A-4) STA 0+57 TO 0+31

SECTION

SCALE: 1" = 10' H
1" = 10' V







SITE 2A BANK REPAIR STA 0+84 TO 0+69

SECTION

SCALE: 1" = 10' H
1" = 10' V

1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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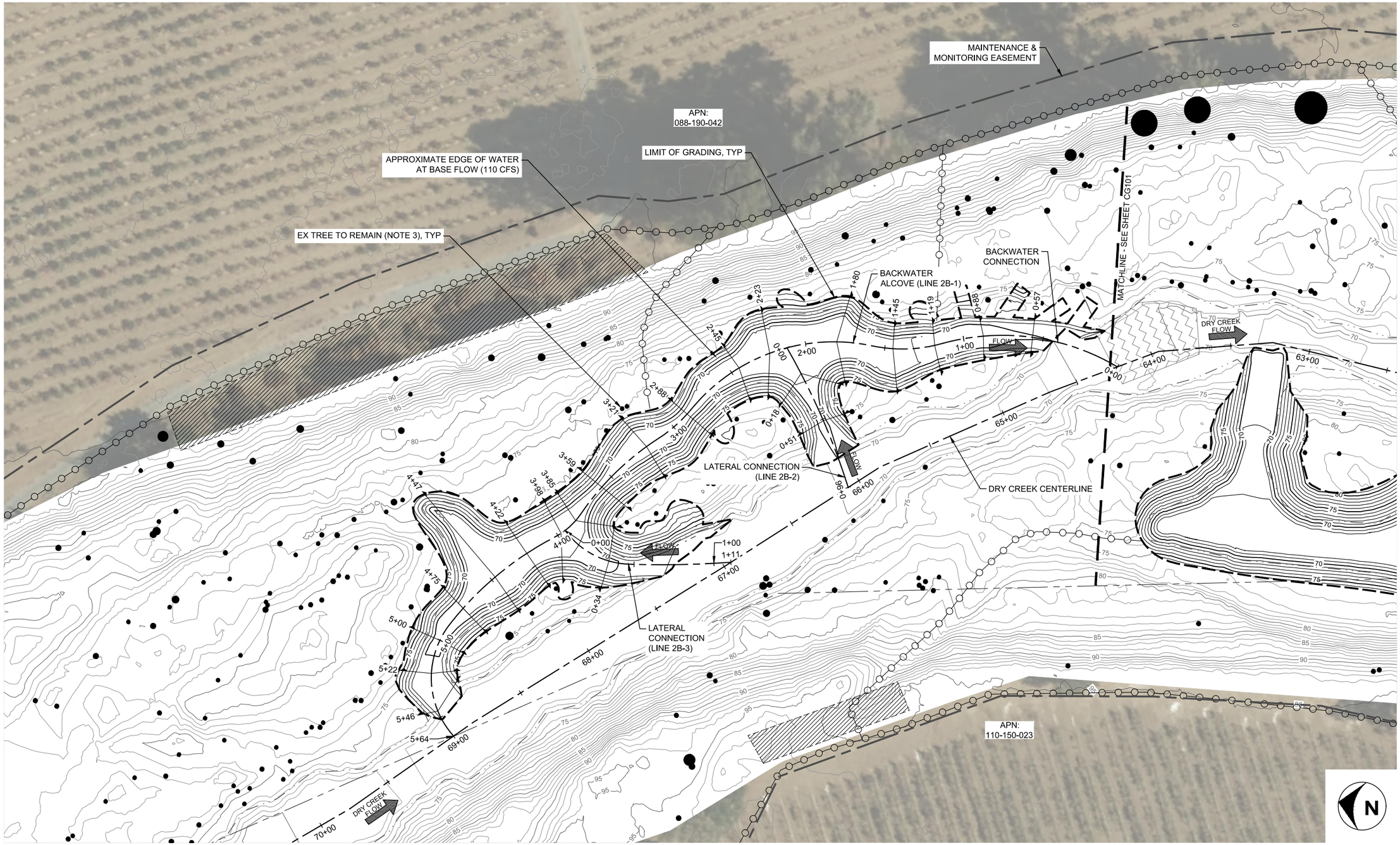
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2A SECTIONS (SHEET 4 OF 4)

SHEET ID
CG107
23 OF 53

STATUS 99%



NOTES

1. SEE DWG CG113 FOR GRADING PROFILES.
2. SEE DWGS CG114 TO CG115 FOR GRADING SECTIONS.
3. ADJUST GRADING LIMITS TO PROTECT TREES NOT MARKED FOR REMOVAL (SEE DWG CD102).

SITE 2B GRADING PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

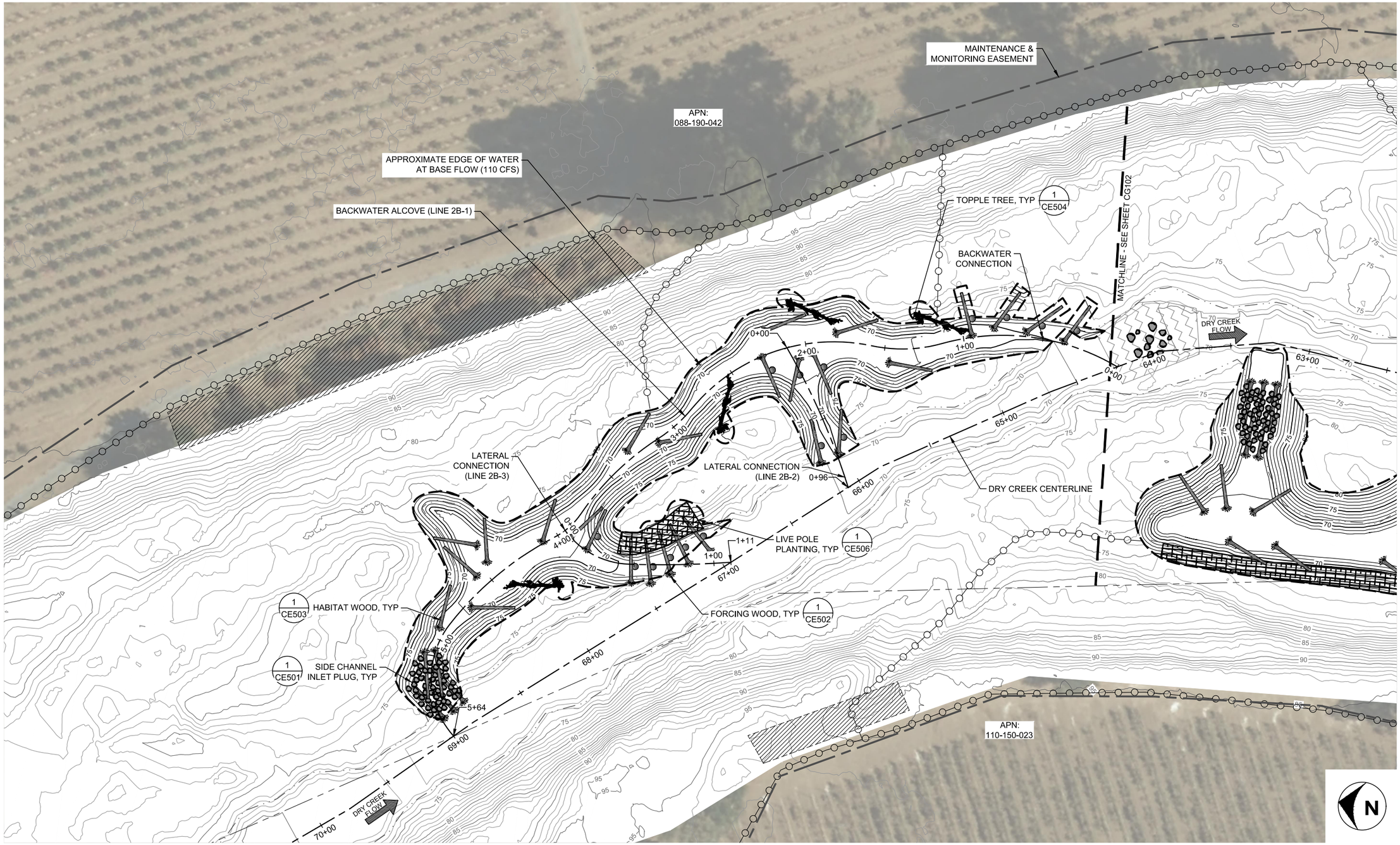
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2B GRADING PLAN

SHEET ID
CG111
24 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2B_CG111.dwg 04 Aug 2020 - 2:34pm

STATUS 99%



NOTES

1. THE LOCATION AND ORIENTATION OF SOME ENHANCEMENT FEATURES MAY REQUIRE MINOR FIELD ADJUSTMENTS DURING CONSTRUCTION.

SITE 2B ENHANCEMENT PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

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PETALUMA, CA 94108

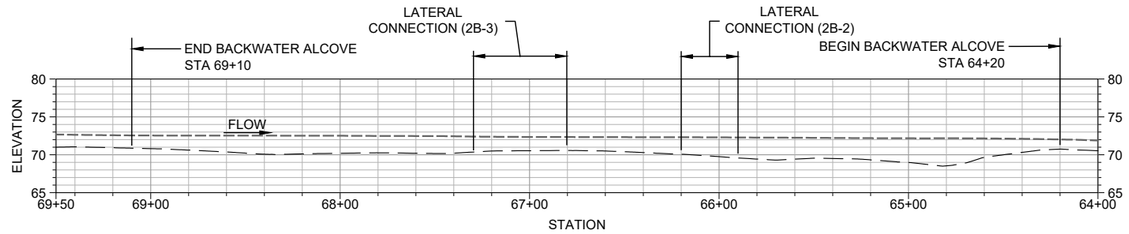
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2B ENHANCEMENT PLAN

SHEET ID
CG112
25 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2B_CG112.dwg 04 Aug 2020 - 2:35pm

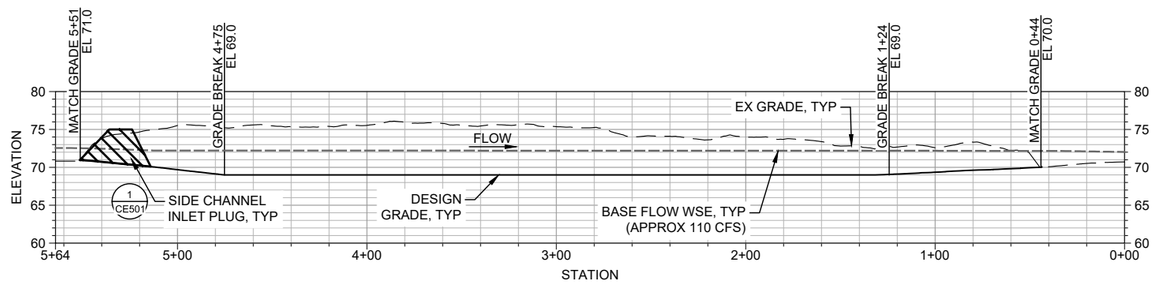
STATUS 99%



DRY CREEK MAIN CHANNEL

PROFILE

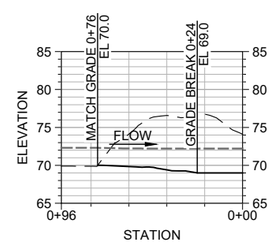
SCALE: 1" = 40' H
1" = 10' V



SITE 2B BACKWATER ALCOVE (LINE 2B-1)

PROFILE

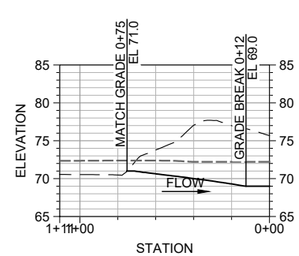
SCALE: 1" = 40' H
1" = 10' V



SITE 2B LATERAL CONNECTION (LINE 2B-2)

PROFILE

SCALE: 1" = 40' H
1" = 10' V



SITE 2B LATERAL CONNECTION (LINE 2B-3)

PROFILE

SCALE: 1" = 40' H
1" = 10' V

1"=40' 40 20 0 40 80
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. SEE DWGS CG111 & CG112 FOR ALIGNMENT LAYOUT.
2. CHANNEL STATIONING IS APPROXIMATE. CONTOUR GRADING GOVERNS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
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CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

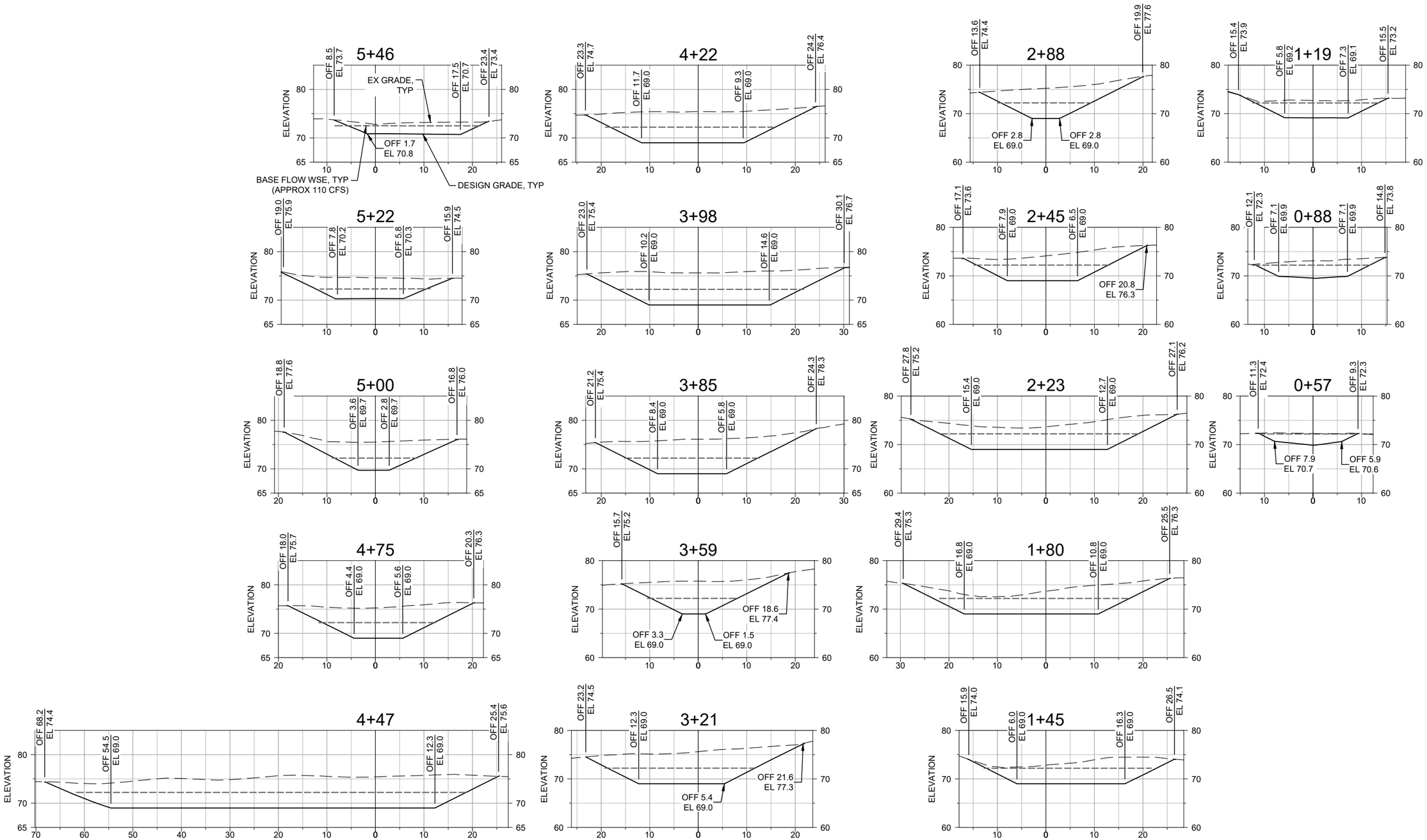
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2B GRADING PROFILES

SHEET ID
CG113
26 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2B_CG113.dwg 04 Aug 2020 - 2:35pm

STATUS 99%



SITE 2B BACKWATER ALCOVE (LINE 2B-1) STA 5+46 TO 0+57

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102
DESIGNED BY: JQW, MAS
DRAWN BY: MAS
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
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PETALUMA, CA 94108

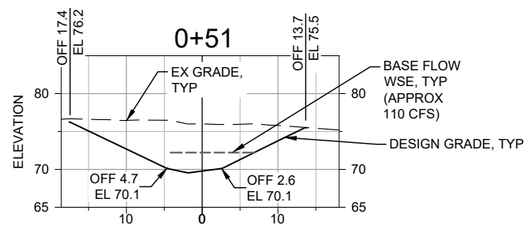
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

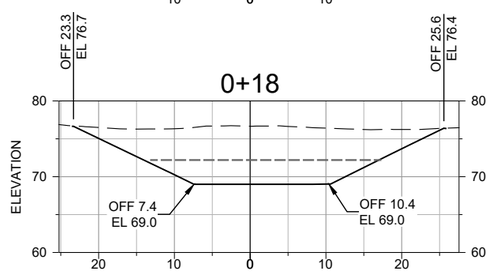
SITE 2B SECTIONS (SHEET 1 OF 2)

SHEET ID
CG114
27 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2B_CG114.dwg 04 Aug 2020 - 2:36pm

STATUS 99%

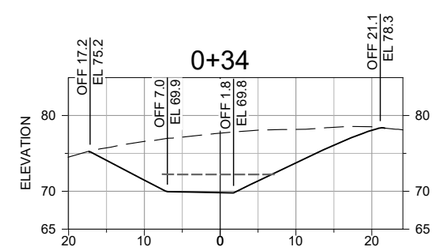




SITE 2B LATERAL CONNECTION (LINE 2B-2) STA 0+51 TO 0+18

SECTION

SCALE: 1" = 10' H
1" = 10' V



SITE 2B LATERAL CONNECTION (LINE 2B-3) STA 0+34

SECTION

SCALE: 1" = 10' H
1" = 10' V

1"=10' 10 5 0 10 20
SCALE FEET

1"=10' 10 5 0 10 20
SCALE FEET

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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DESIGNED BY: JQW, MAS
DRAWN BY: MAS
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

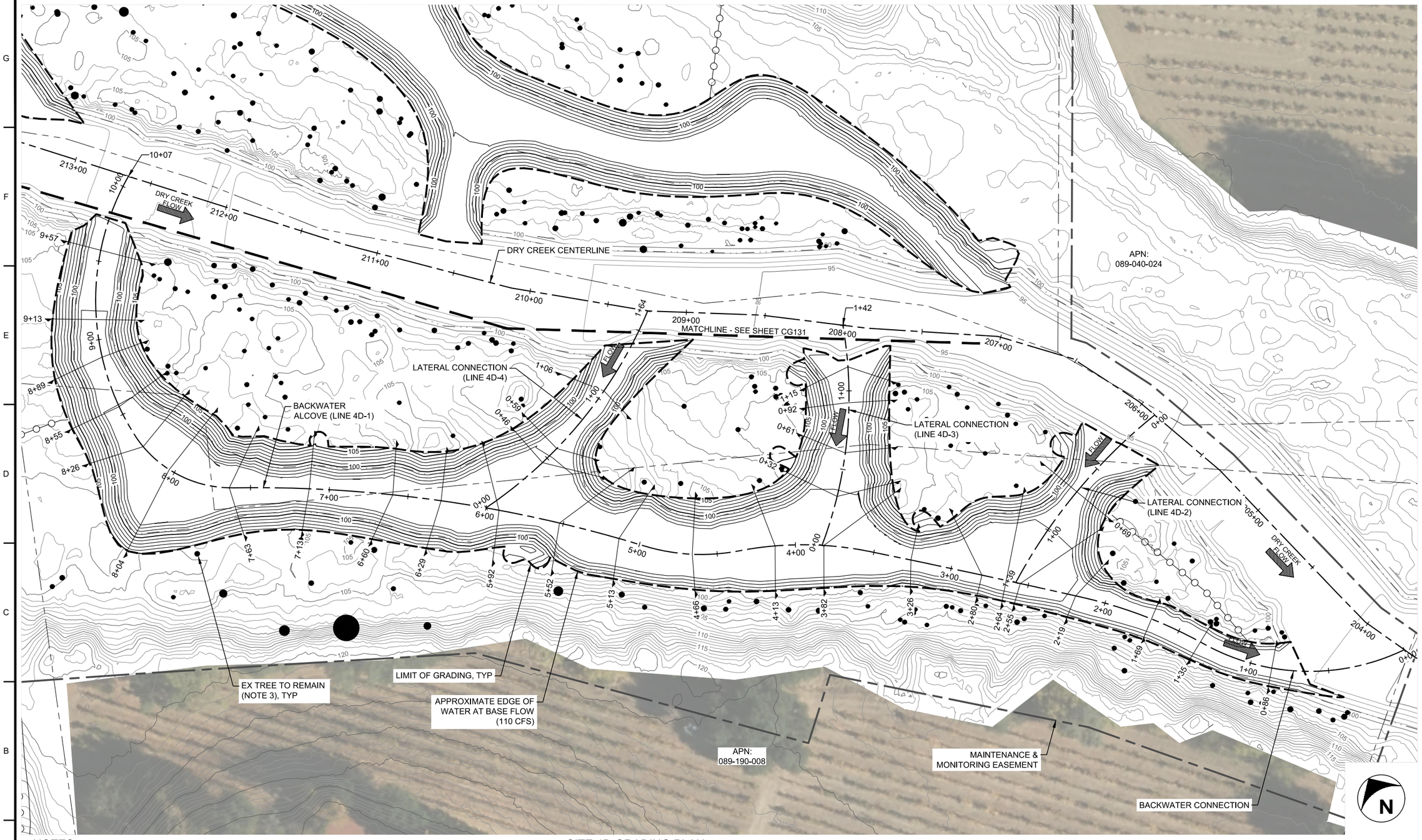
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2B SECTIONS (SHEET 2 OF 2)

SHEET ID
CG115
28 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2B_CG114.dwg 04 Aug 2020 - 2:36pm

STATUS 99%



NOTES

1. SEE DWG CG123 FOR GRADING PROFILES.
2. SEE DWGS CG124 TO CG126 FOR GRADING SECTIONS.
3. ADJUST GRADING LIMITS TO PROTECT TREES NOT MARKED FOR REMOVAL (SEE DWG CD103).

SITE 4D GRADING PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912P7-21-B-XXXX
CONTRACT NO.: W912P7-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

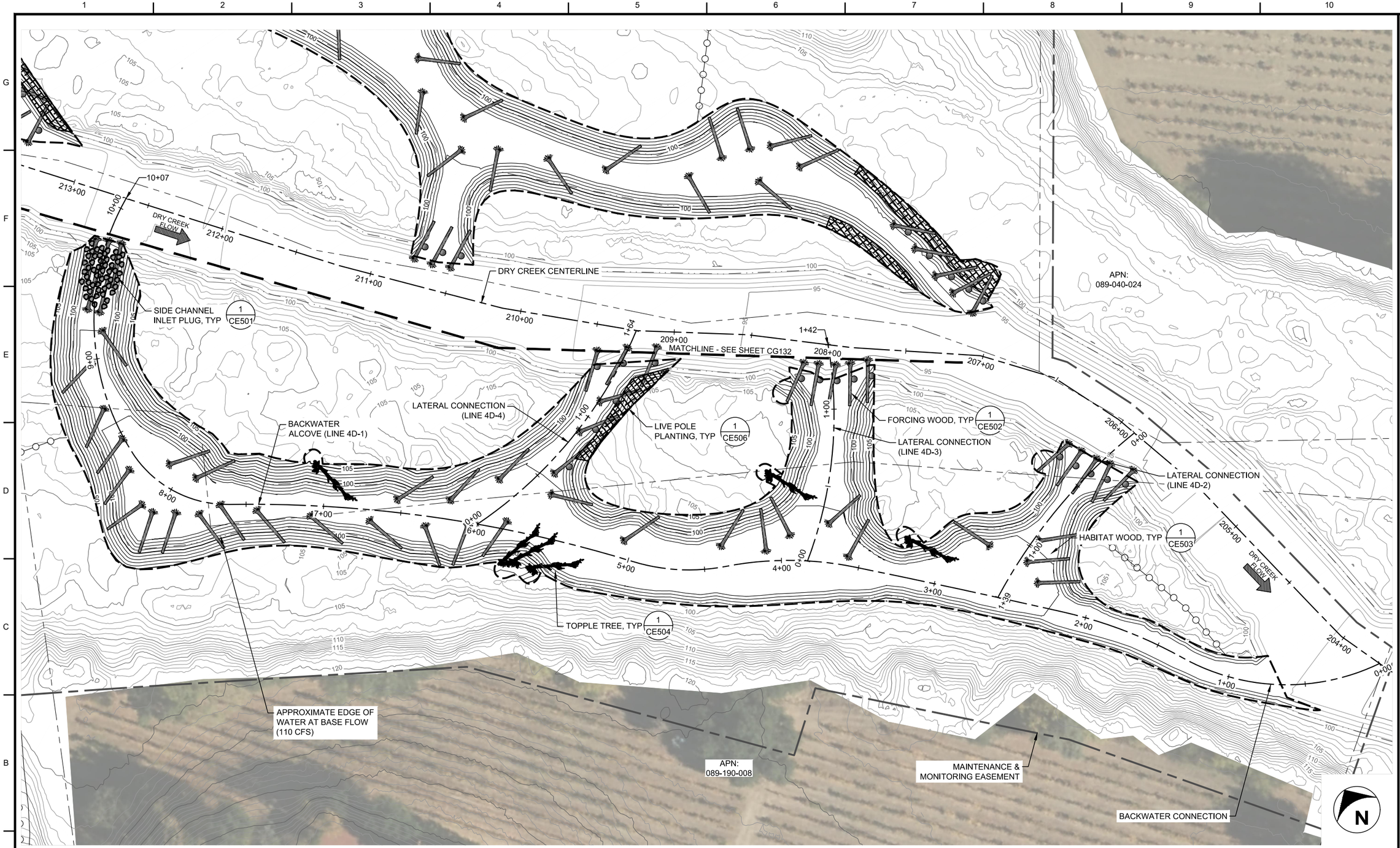
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D GRADING PLAN

SHEET ID
CG121
29 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_CG121.dwg 04 Aug 2020 - 2:37pm

STATUS 99%



NOTES

1. THE LOCATION AND ORIENTATION OF SOME ENHANCEMENT FEATURES MAY REQUIRE MINOR FIELD ADJUSTMENTS DURING CONSTRUCTION.

SITE 4D ENHANCEMENT PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

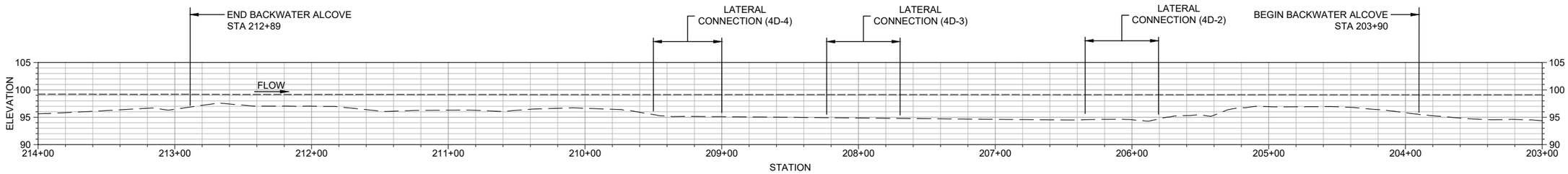
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D ENHANCEMENT PLAN

SHEET ID
CG122
30 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_CG122.dwg 04 Aug 2020 - 2:37pm

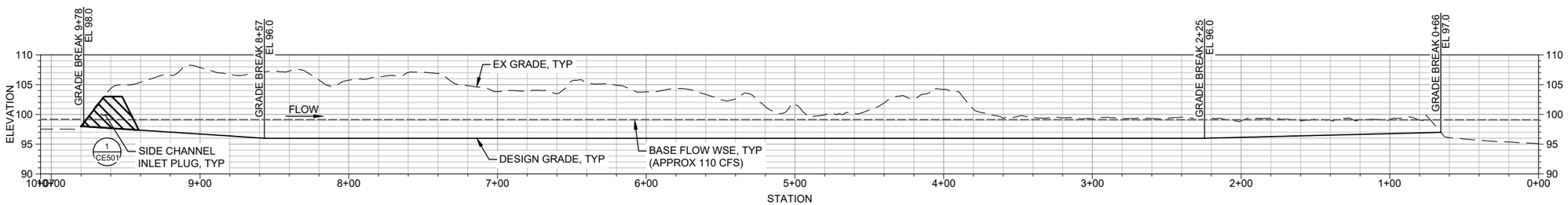
STATUS 99%



DRY CREEK MAIN CHANNEL

PROFILE

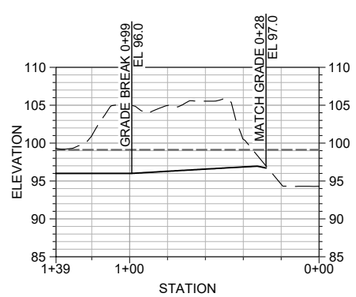
SCALE: 1" = 40' H
1" = 10' V



SITE 4D BACKWATER ALCOVE (LINE 4D-1)

PROFILE

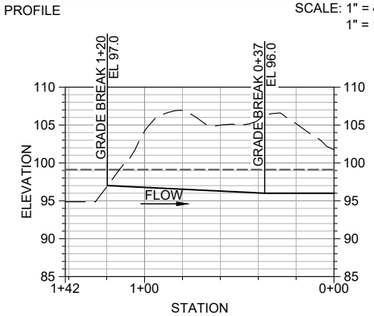
SCALE: 1" = 40' H
1" = 10' V



SITE 4D LATERAL CONNECTION (LINE 4D-2)

PROFILE

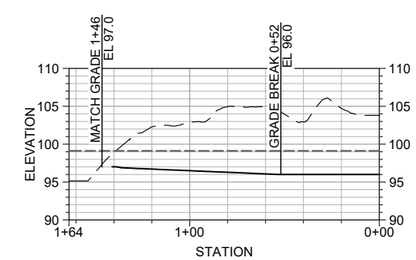
SCALE: 1" = 40' H
1" = 10' V



SITE 4D LATERAL CONNECTION (LINE 4D-3)

PROFILE

SCALE: 1" = 40' H
1" = 10' V



SITE 4D LATERAL CONNECTION (LINE 4D-4)

PROFILE

SCALE: 1" = 40' H
1" = 10' V

1"=40' 40 20 0 40 80
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET

NOTES

1. SEE DWGS CG121 & CG122 FOR ALIGNMENT LAYOUT.
2. CHANNEL STATIONING IS APPROXIMATE. CONTOUR GRADING GOVERNS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102

DESIGNED BY: JQW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

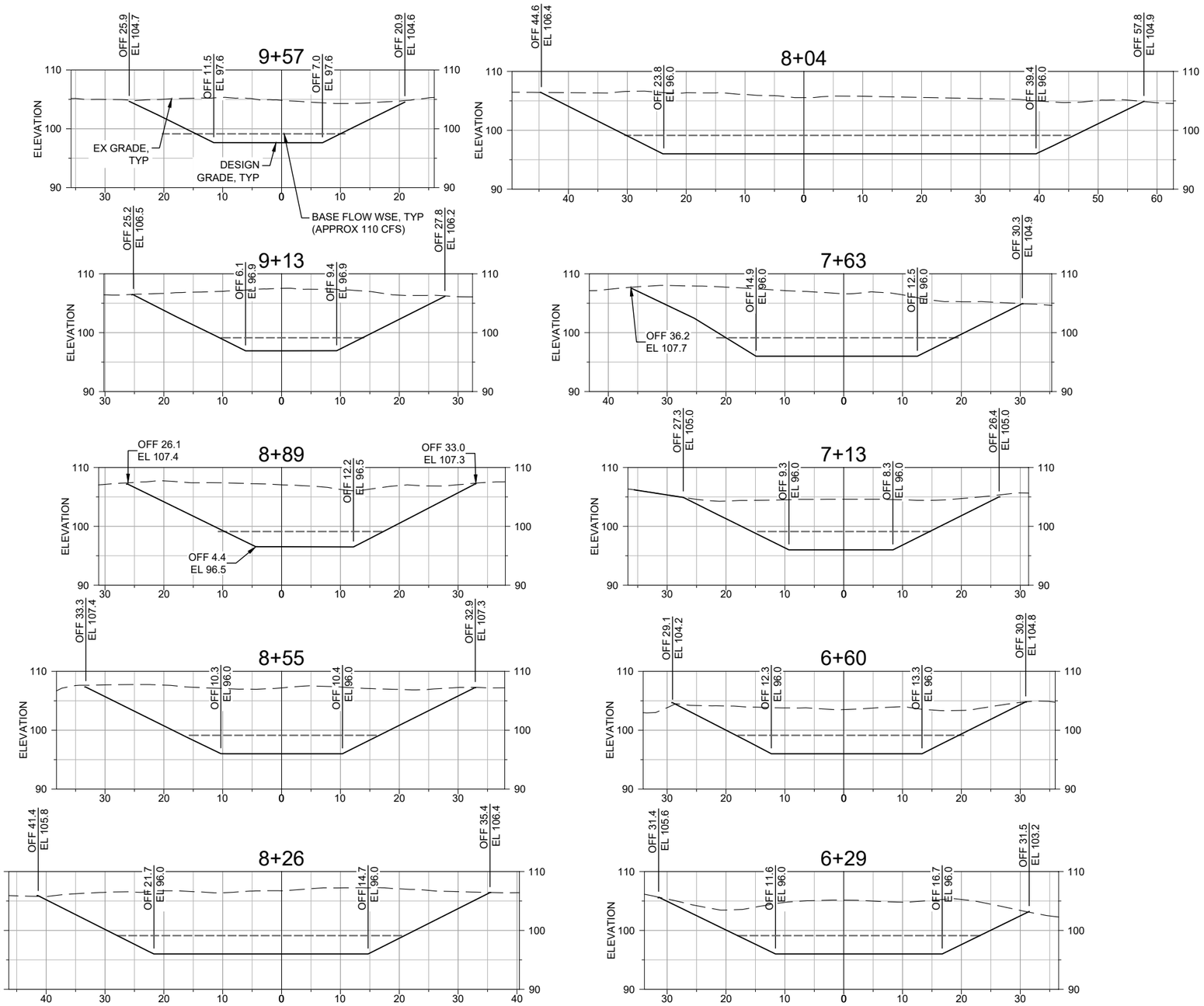
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D GRADING PROFILES

SHEET ID
CG123
31 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_CG123.dwg 04 Aug 2020 - 2:38pm

STATUS 99%



1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

SITE 4D BACKWATER ALCOVE (LINE 4D-1) STA 9+57 TO 6+29

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
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PETALUMA, CA 94108

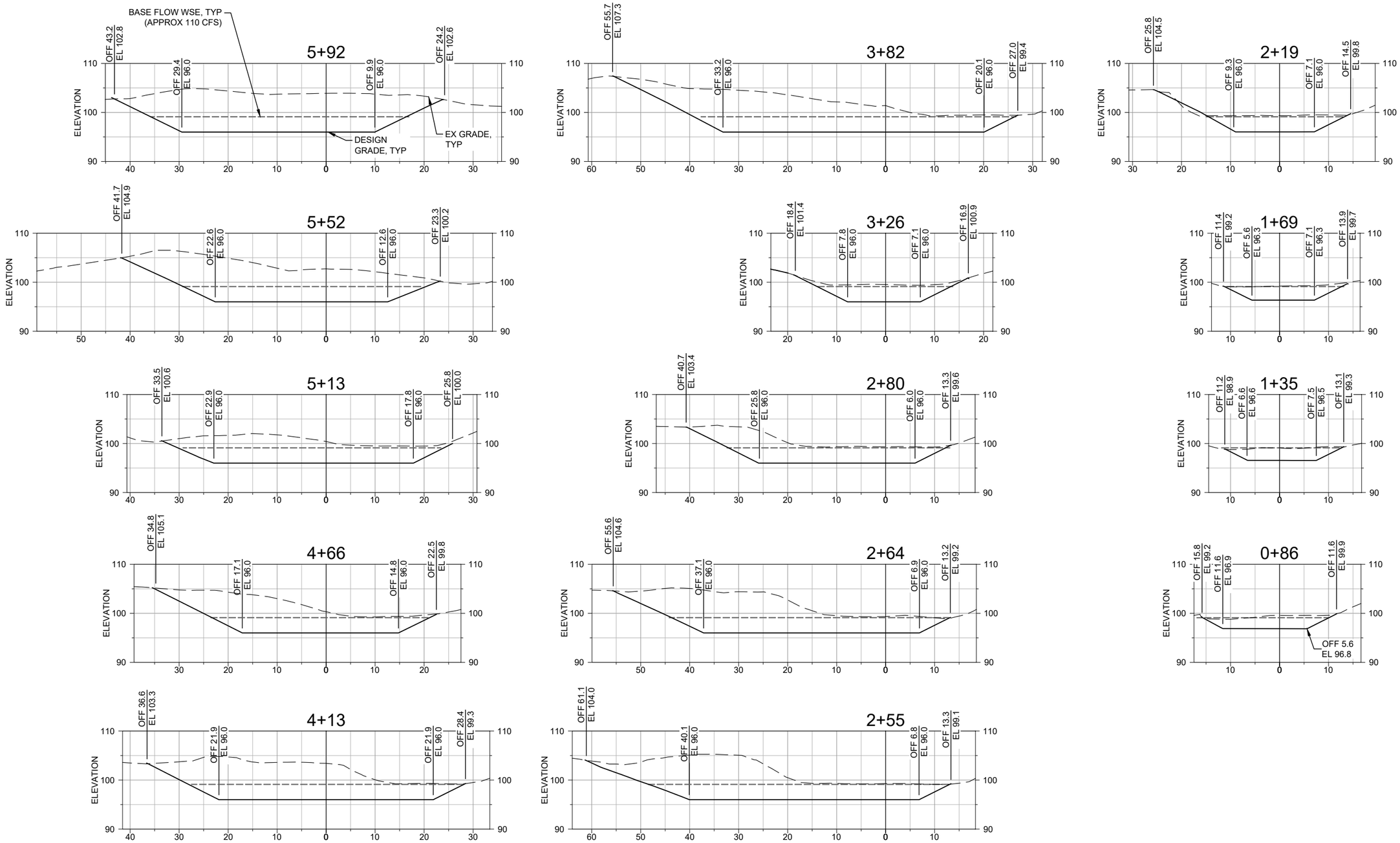
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D SECTIONS (SHEET 1 OF 3)

SHEET ID
CG124
32 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_CG124.dwg 04 Aug 2020 - 2:39pm

STATUS 99%



SITE 4D BACKWATER ALCOVE (LINE 4D-1) STA 5+92 TO 0+86

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: MAS
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

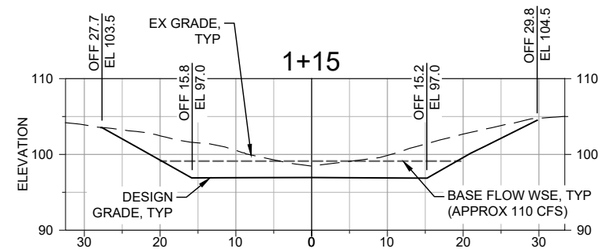
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

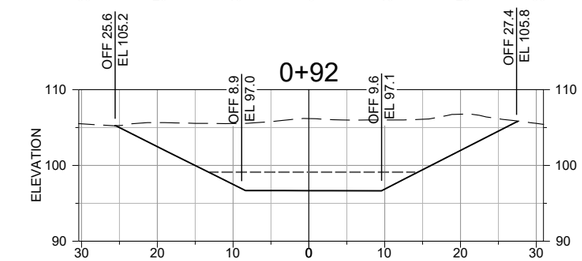
SITE 4D SECTIONS (SHEET 2 OF 3)

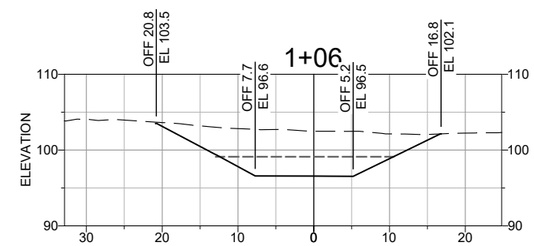
SHEET ID
CG125
33 OF 53

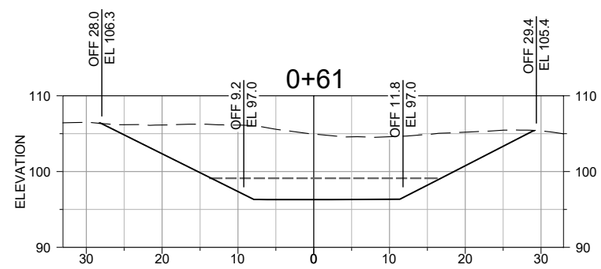
K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4D_CG124.dwg 04 Aug 2020 - 2:39pm

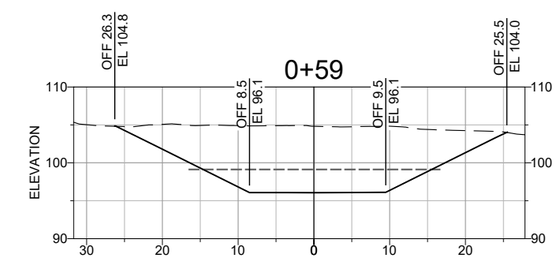
STATUS 99%

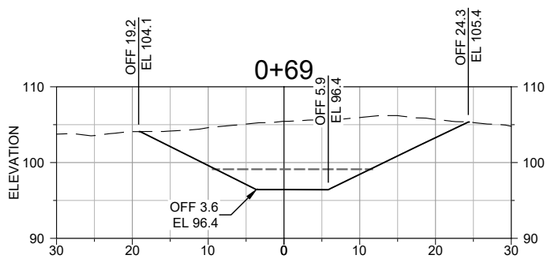


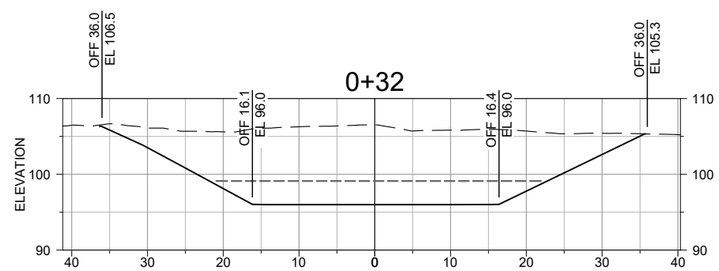


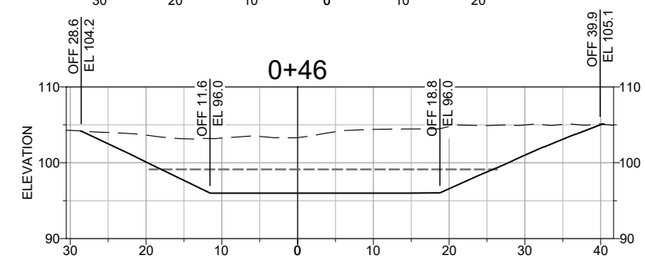












SITE 4D LATERAL CONNECTION (LINE 4D-2) STA 0+69

SECTION

SCALE: 1" = 10' H
1" = 10' V

SITE 4D LATERAL CONNECTION (LINE 4D-3) STA 1+15 TO 0+32

SECTION

SCALE: 1" = 10' H
1" = 10' V

SITE 4D LATERAL CONNECTION (LINE 4D-4) STA 1+06 TO 0+46

SECTION

SCALE: 1" = 10' H
1" = 10' V

1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
DRAWN BY: MAS
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

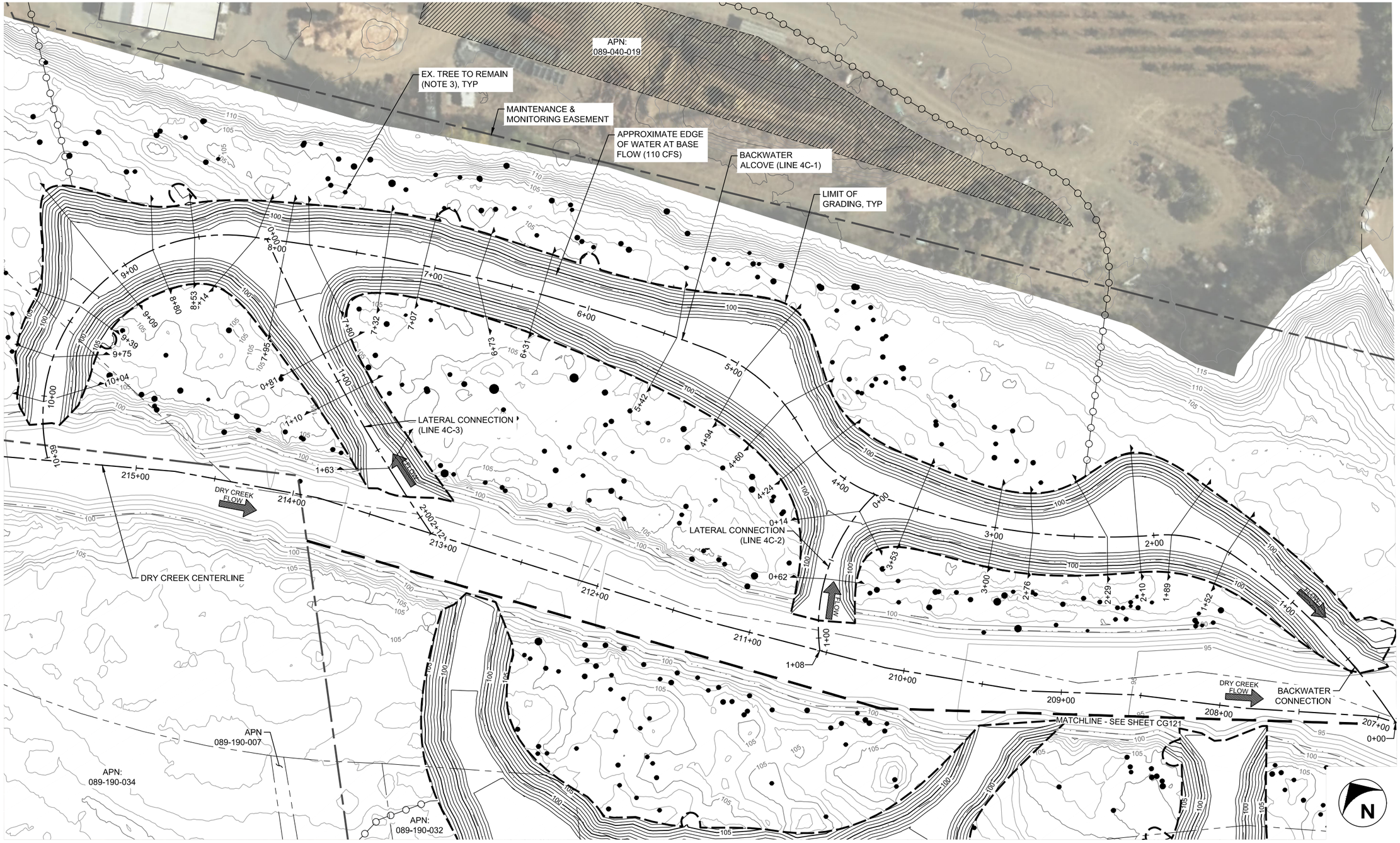
ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D SECTIONS (SHEET 3 OF 3)

SHEET ID
CG126
34 OF 53

STATUS 99%



NOTES

1. SEE DWG CG133 FOR GRADING PROFILES.
2. SEE DWGS CG134 TO CG137 FOR GRADING SECTIONS.
3. ADJUST GRADING LIMITS TO PROTECT TREES NOT MARKED FOR REMOVAL (SEE DWG CD104).

SITE 4C GRADING PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

US Army Corps of Engineers®

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ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

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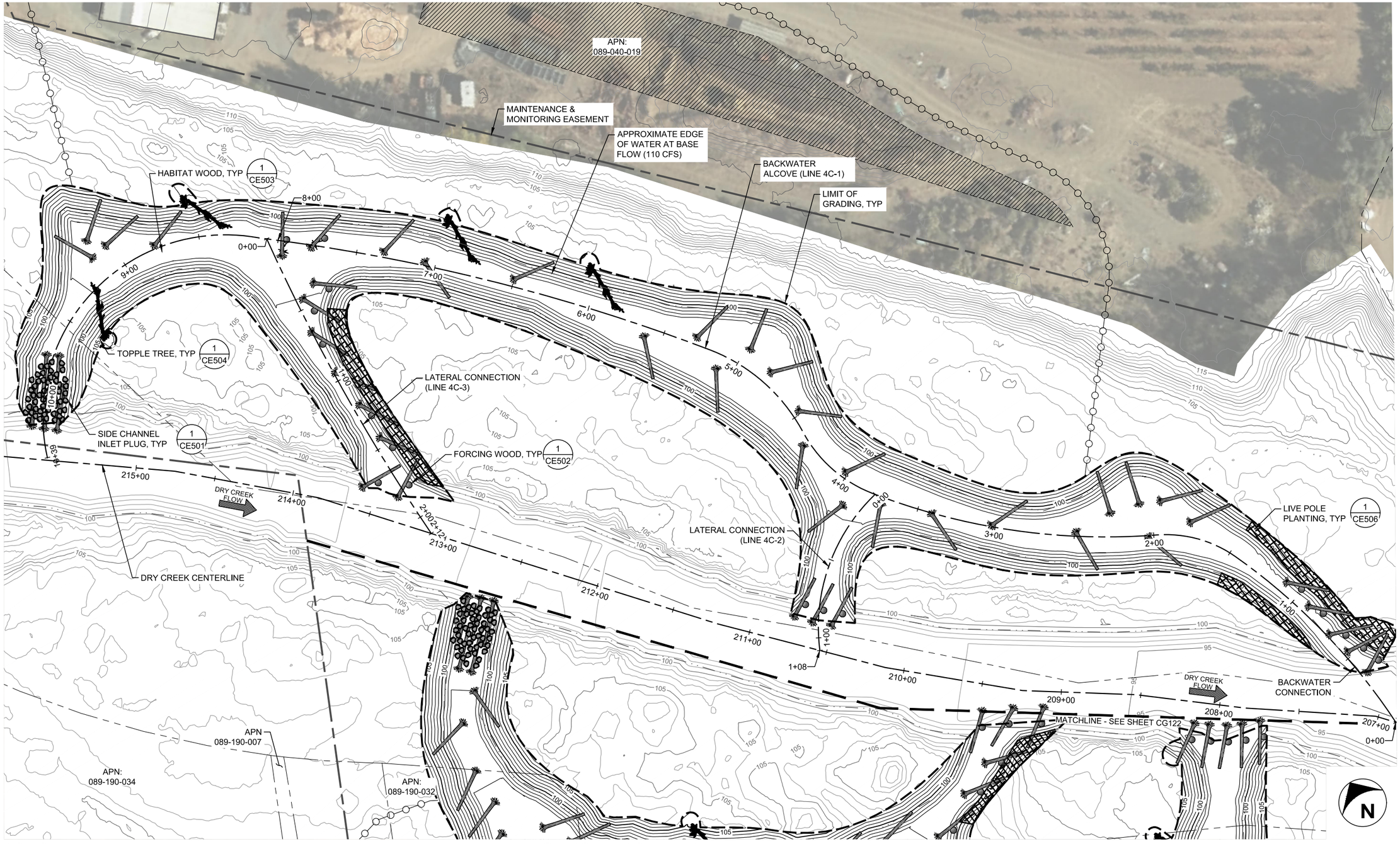
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C GRADING PLAN

SHEET ID
CG131
35 OF 53

STATUS 99%



NOTES

1. THE LOCATION AND ORIENTATION OF SOME ENHANCEMENT FEATURES MAY REQUIRE MINOR FIELD ADJUSTMENTS DURING CONSTRUCTION.

SITE 4C ENHANCEMENT PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60
SCALE FEET

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102

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CHECKED BY: MRL
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U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
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PETALUMA, CA 94108

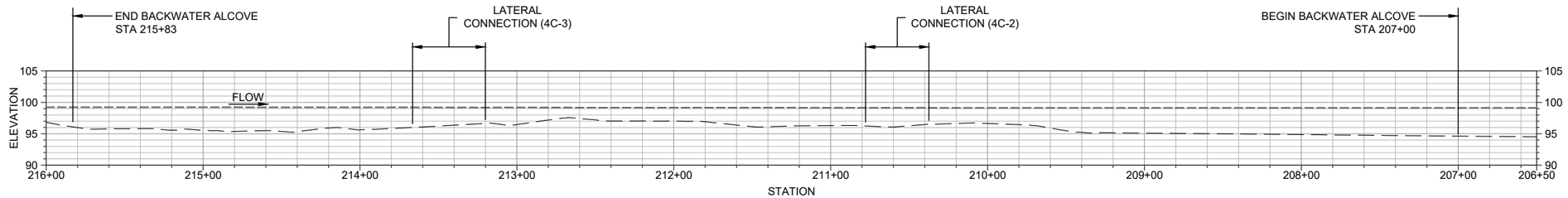
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C ENHANCEMENT PLAN

SHEET ID
CG132
36 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_CG132.dwg 04 Aug 2020 - 2:41pm

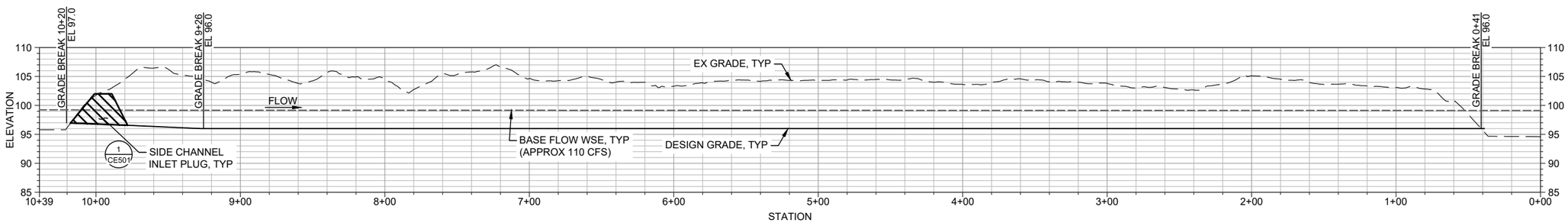
STATUS 99%



DRY CREEK MAIN CHANNEL

PROFILE

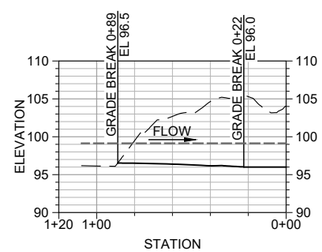
SCALE: 1" = 40' H
1" = 10' V



SITE 4C BACKWATER ALCOVE (LINE 4C-1)

PROFILE

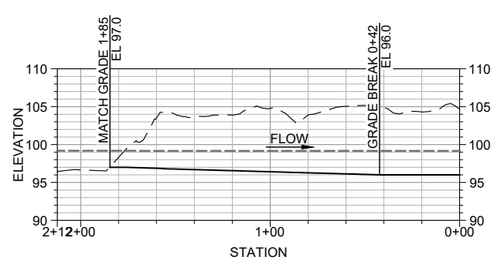
SCALE: 1" = 40' H
1" = 10' V



SITE 4C LATERAL CONNECTION (LINE 4C-2)

PROFILE

SCALE: 1" = 40' H
1" = 10' V



SITE 4C LATERAL CONNECTION (LINE 4C-3)

PROFILE

SCALE: 1" = 40' H
1" = 10' V

1"=40' 40 20 0 40 80
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. SEE DWGS CG131 & CG132 FOR ALIGNMENT LAYOUT.
2. CHANNEL STATIONING IS APPROXIMATE. CONTOUR GRADING GOVERNS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

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DRAWING NO.: DC-1-102

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DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

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PETALUMA, CA 94108

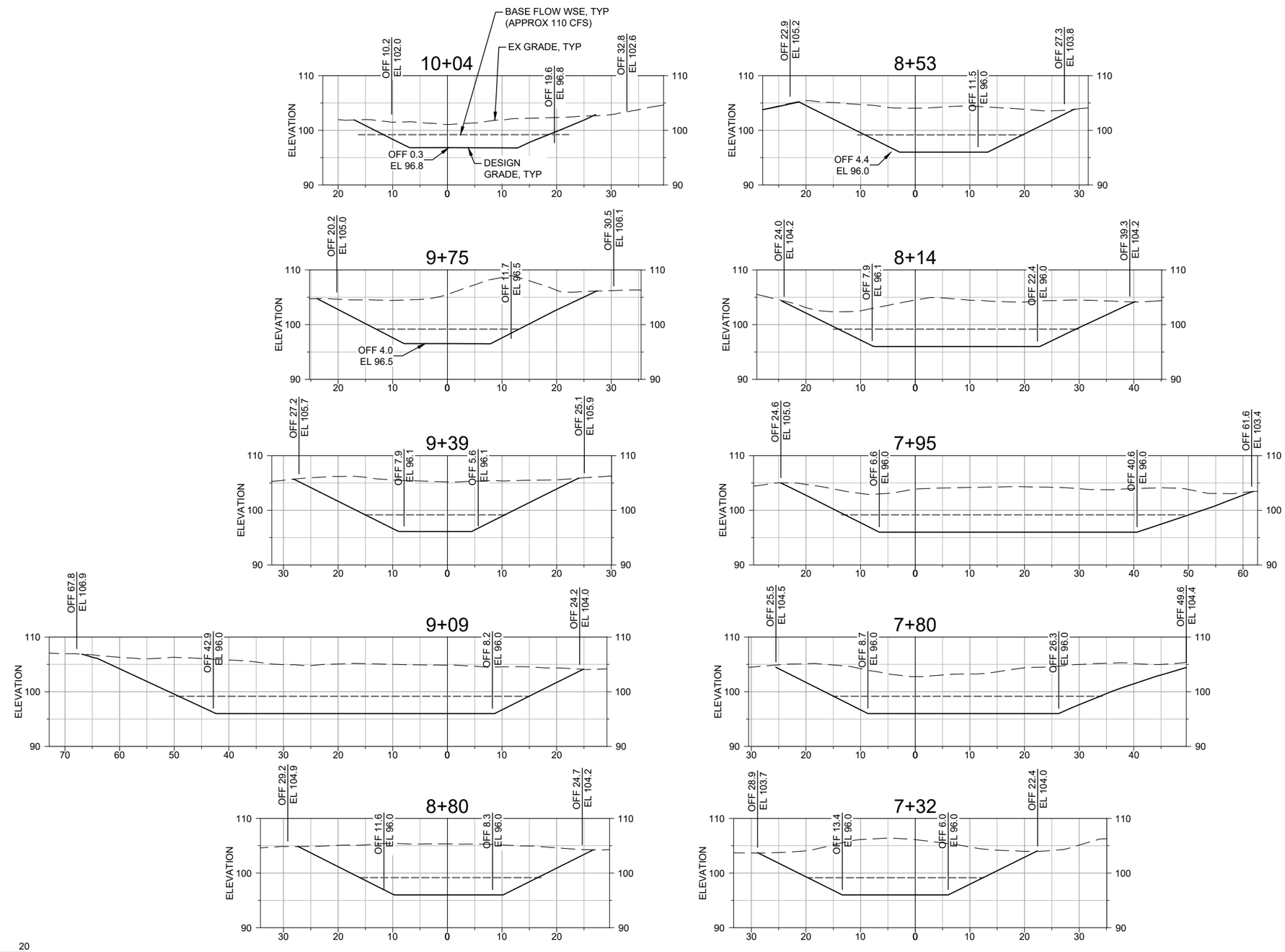
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C GRADING PROFILES

SHEET ID
CG133
37 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_CG133.dwg 04 Aug 2020 - 2:41pm

STATUS 99%



1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

SITE 4C BACKWATER ALCOVE (LINE 4C-1) STA 10+04 TO 7+32

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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ISSUE DATE: AUG 2020
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CONTRACT NO.: W912PT-21-C-XXXX
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450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

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1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

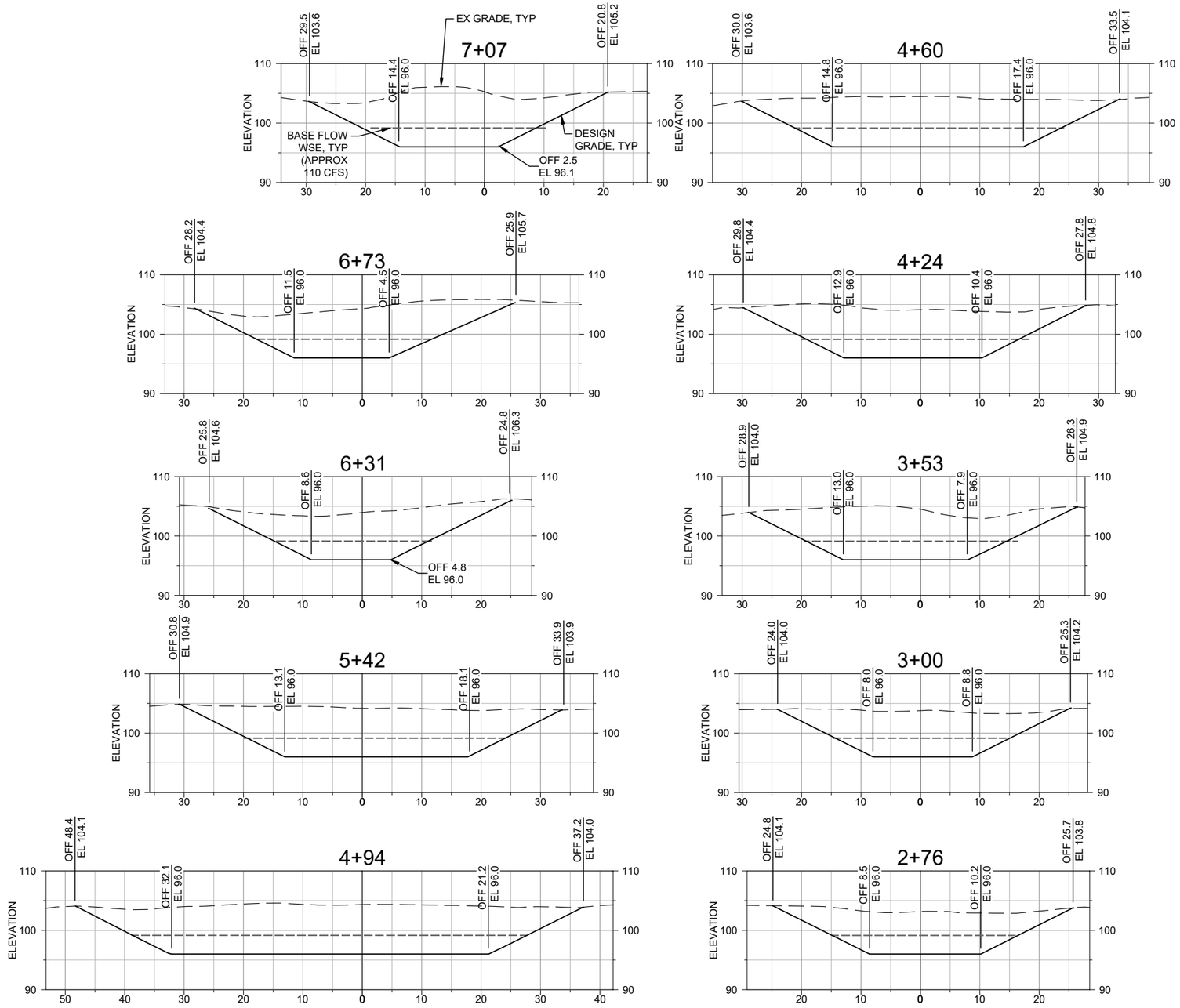
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C SECTIONS (SHEET 1 OF 4)

SHEET ID
CG134
38 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_CG134.dwg 04 Aug 2020 - 2:49pm

STATUS 99%



1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

SITE 4C BACKWATER ALCOVE (LINE 4C-1) STA 7+07 TO 2+76

SECTION

SCALE: 1" = 10' H
1" = 10' V

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

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SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

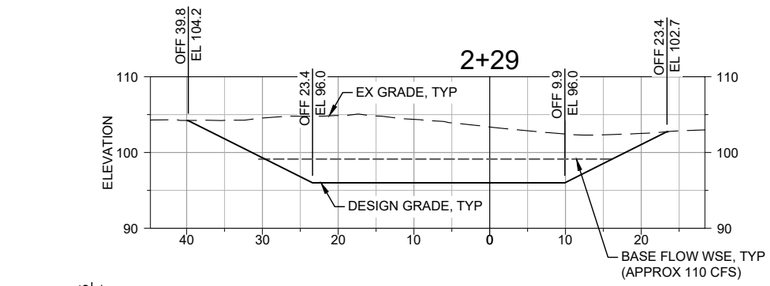
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

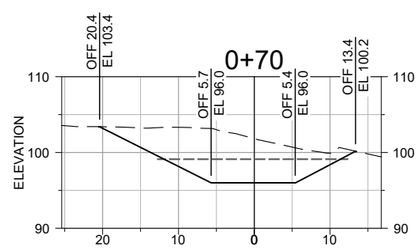
SITE 4C SECTIONS (SHEET 2 OF 4)

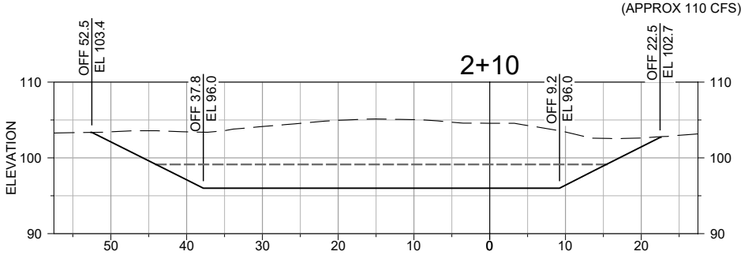
SHEET ID
CG135
39 OF 53

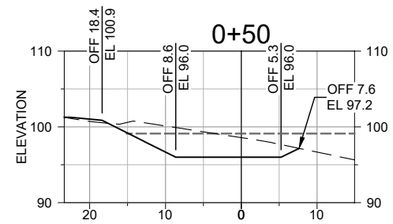
K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_CG134.dwg 04 Aug 2020 - 2:49pm

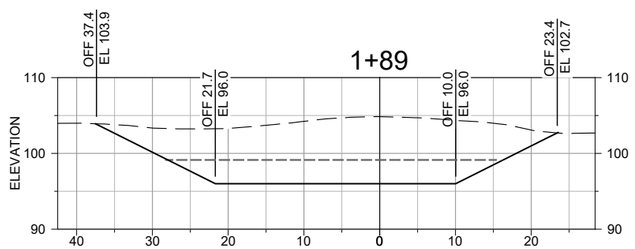
STATUS 99%

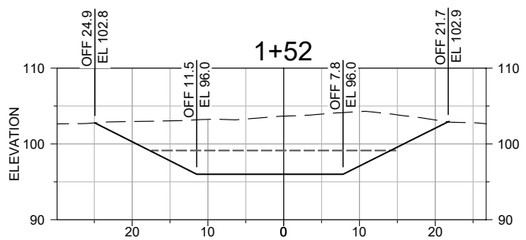


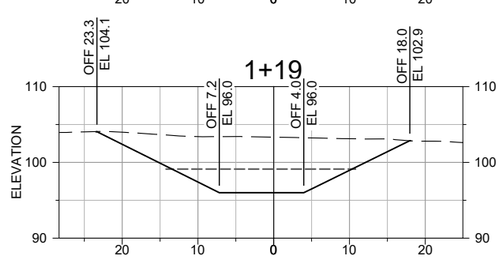








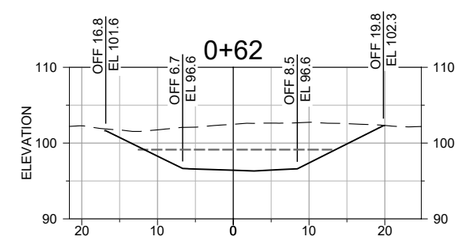


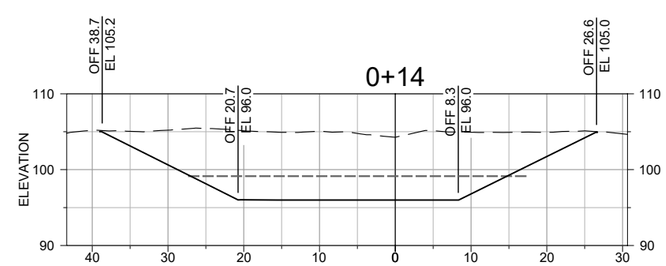


SITE 4C BACKWATER ALCOVE (LINE 4C-1) STA 2+29 TO 0+50

SECTION

SCALE: 1" = 10' H
1" = 10' V





SITE 4C LATERAL CONNECTION (LINE 4C-2) STA 0+62 TO 0+14

SECTION

SCALE: 1" = 10' H
1" = 10' V

1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
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SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-22-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C SECTIONS (SHEET 3 OF 4)

SHEET ID
CG136
40 OF 53

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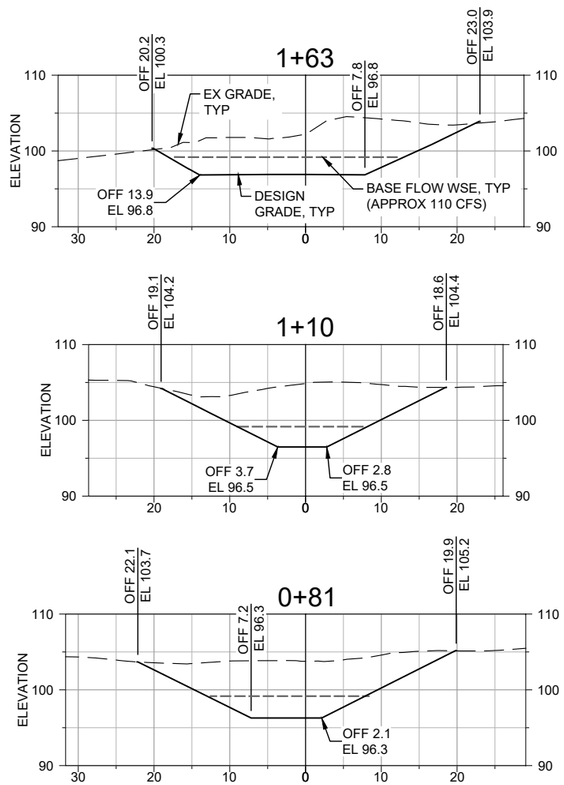
STATUS 99%



SITE 4C LATERAL CONNECTION (LINE 4C-3) STA 1+63 TO 0+81

SECTION

SCALE: 1" = 10' H
1" = 10' V

1"=10' 10 5 0 10 20
SCALE FEET
HORIZONTAL

1"=10' 10 5 0 10 20
SCALE FEET
VERTICAL

NOTES

1. GRADING SECTIONS ARE ORIENTED LOOKING DOWNSTREAM.
2. BLEND TO CONFORM TO EXISTING GRADE AT LIMIT OF GRADING.
3. GRADE TO PRODUCE SMOOTH, NON-PRISMATIC TRANSITIONS BETWEEN GRADE BREAKS.

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ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N MCDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

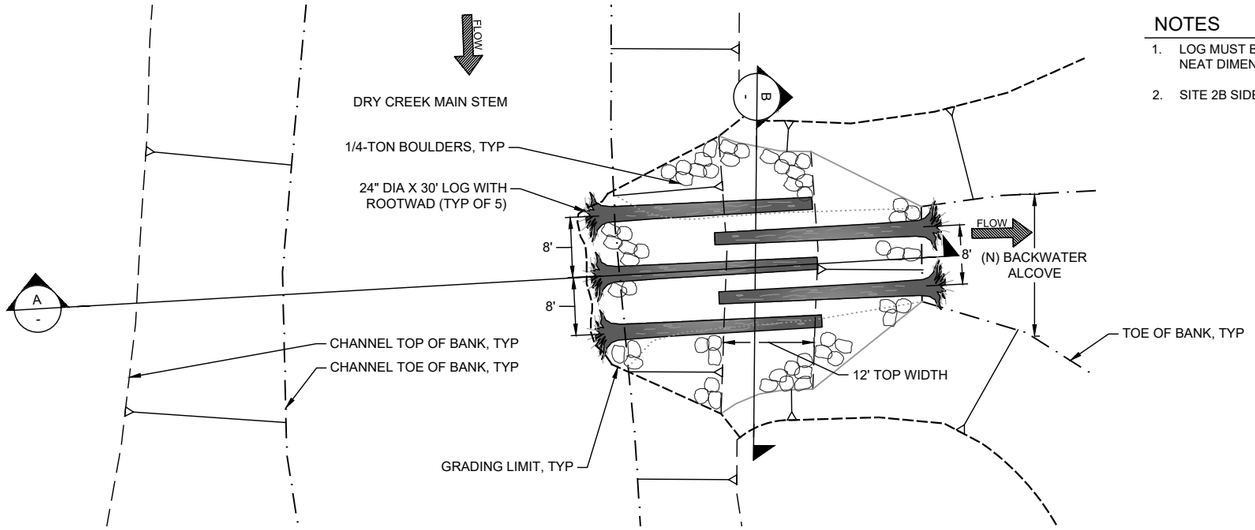
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C SECTIONS (SHEET 4 OF 4)

SHEET ID
CG137
41 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE4C_CG134.dwg 04 Aug 2020 - 2:49pm

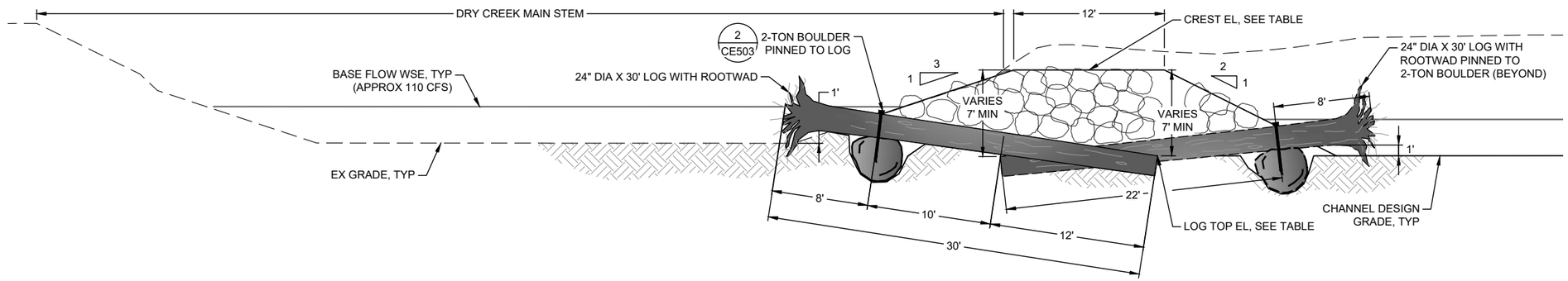
STATUS 99%



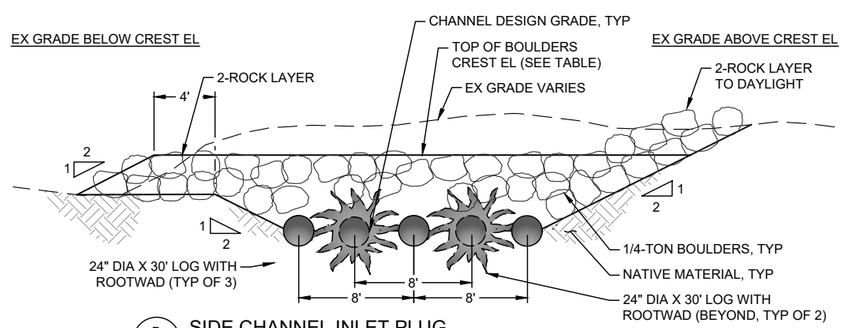
1 - SIDE CHANNEL INLET PLUG
PLAN
SCALE: 1" = 10'

NOTES

1. LOG MUST BE PLACED IN THE PRESENCE OF THE GOVERNMENT REPRESENTATIVE. FIELD FIT AND ADJUST AS NEEDED TO CONFORM IRREGULAR LOGS TO NEAT DIMENSIONS SHOWN.
2. SITE 2B SIDE CHANNEL INLET PLUG LOG ORIENTATIONS VARY FROM DETAIL SHOWN. SEE ENHANCEMENT PLAN SHEET CG112 FOR ORIENTATION.



A - SIDE CHANNEL INLET PLUG
PROFILE
SCALE: 1" = 5'



B - SIDE CHANNEL INLET PLUG
TYPICAL SECTION
SCALE: 1" = 5'

SIDE CHANNEL INLET PLUG CREST EL TABLE			
LINE	STA	CREST EL	TOP OF LOG (BURIED END)
2A-1	3+70	74.0	67.0
2A-3	3+75	77.0	68.0
2B-1	5+30	75.0	68.0
4C-1	9+95	102.0	95.0
4D-1	9+55	103.0	96.0

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ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-21-C-XXXX
DRAWING NO.: DC-1-102

DESIGNED BY: JQW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

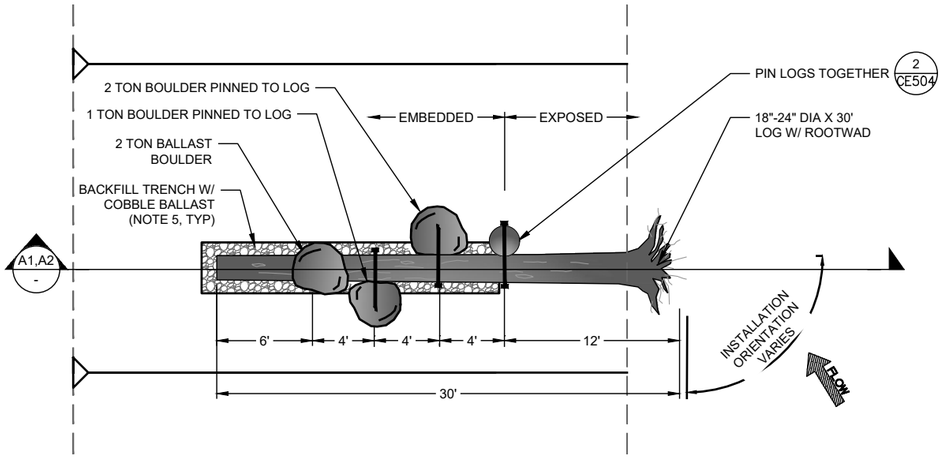
ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

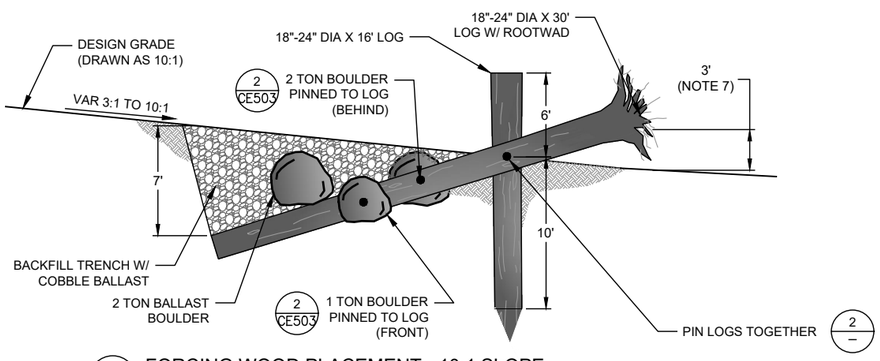
DETAIL - SIDE CHANNEL INLET PLUG

SHEET ID
CE501
42 OF 53

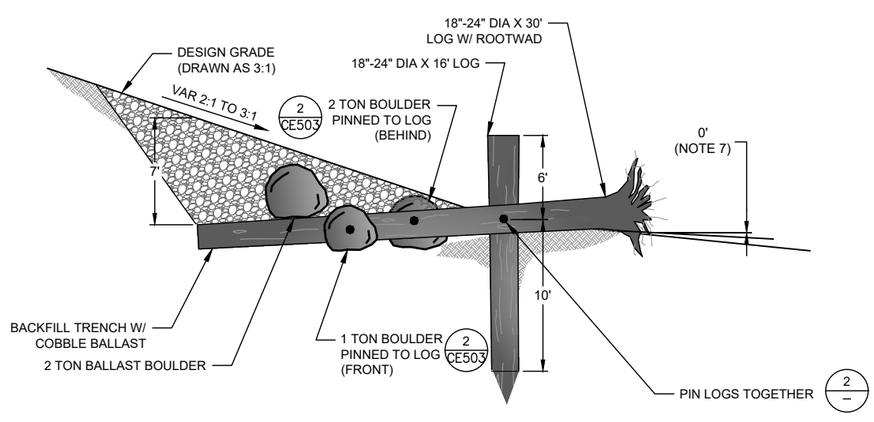
STATUS 99%



1/VAR FORCING WOOD
PLAN VIEW SCALE: 1" = 5'

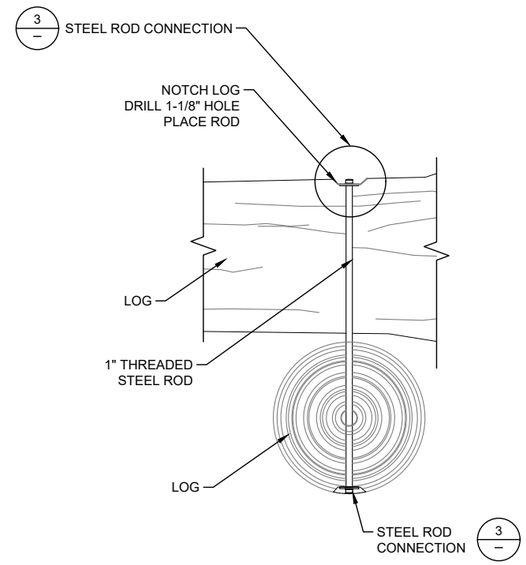


A1/VAR FORCING WOOD PLACEMENT - 10:1 SLOPE
SECTION VIEW SCALE: 1" = 5'



A2/VAR FORCING WOOD PLACEMENT - 2:1 TO 3:1 SLOPE
SECTION VIEW SCALE: 1" = 5'

1"=5' 5 2.5 0 5 10 SCALE FEET

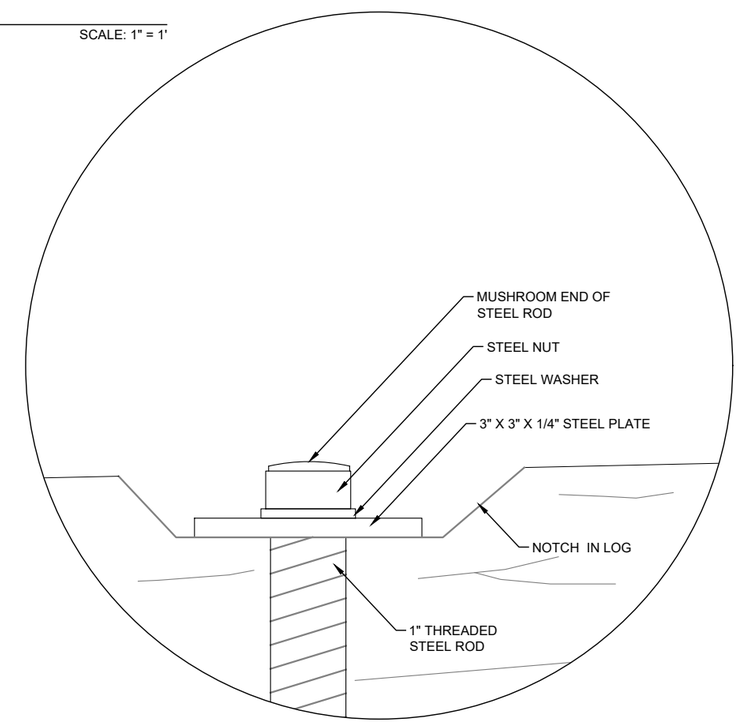


2/VAR LOG TO LOG PINNING
TYPICAL DETAIL SCALE: 1" = 1'

SCHEDULE OF LOGS				
TYPE	#	DIA (FT)	LENGTH (FT)	ROOT WAD
EMBEDDED	1	1.5-2	30	Y
VERTICAL	1	1.5-2	16	N

NOTES

1. LOG MUST BE PLACED IN THE PRESENCE OF THE GOVERNMENT REPRESENTATIVE. FIELD FIT AND ADJUST AS NEEDED TO CONFORM IRREGULAR LOGS TO NEAT DIMENSIONS SHOWN.
2. DETAIL SHOWS EMBEDMENT DEPTH ASSUMING THE LOG IS THE MINIMUM LENGTH SPECIFIED. IF LONGER LOG IS USED, INCREASE EMBEDMENT LENGTH AND DEPTH AS NEEDED TO MEET REQUIREMENTS SHOWN. DETAIL SHOWS MAXIMUM EXPOSED LOG LENGTH, LENGTH MAY BE INCREASED IF LONGER LOG IS USED. CONFIRM WITH DESIGN ENGINEER.
3. LOGS MAY BE NOTCHED (3" MAX) TO ACHIEVE ORIENTATION AND EMBEDMENT AS SHOWN.
4. BALLAST BOULDER MUST BEAR DIRECTLY ON LOG.
5. BACKFILL TRENCH WITH COBBLE BALLAST. BACKFILL LIMITS SHOWN ARE SCHEMATIC ONLY. ACTUAL LIMITS WILL VARY.
6. FORCING WOOD PLACEMENT WILL BE INSTALLED OVER A RANGE OF ORIENTATION AND BANK SLOPES. SEE ENHANCEMENT PLANS FOR ORIENTATION.
7. HEIGHT VARIES 0' TO 3' DEPENDING ON BANK SLOPE.



3/VAR STEEL ROD CONNECTION
TYPICAL DETAIL SCALE: 1" = 1'

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CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

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SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
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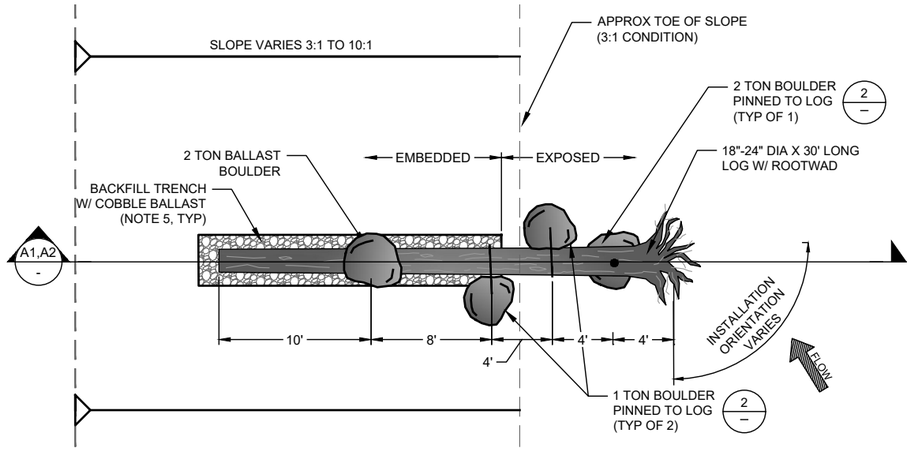
ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N McDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

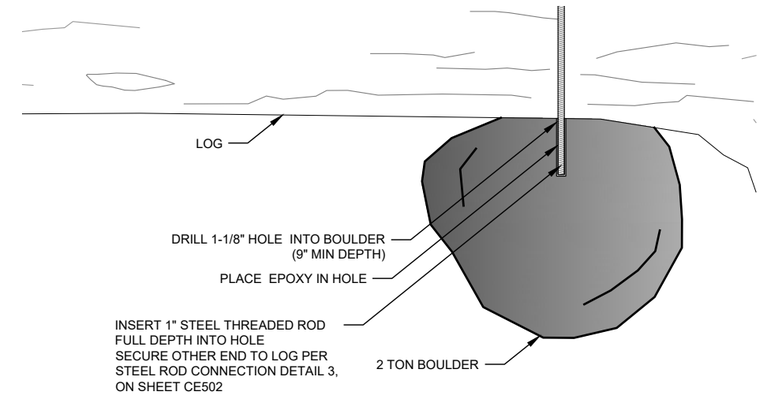
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

DETAIL - FORCING WOOD

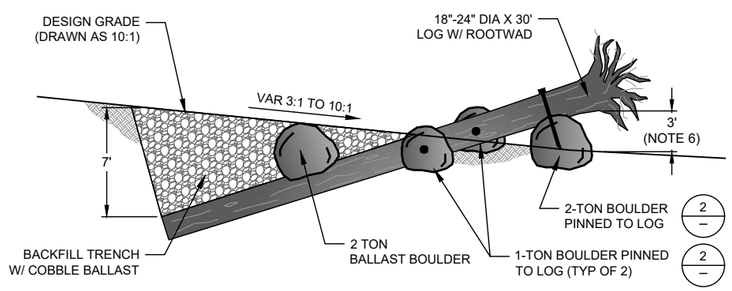
SHEET ID
CE502
43 OF 53



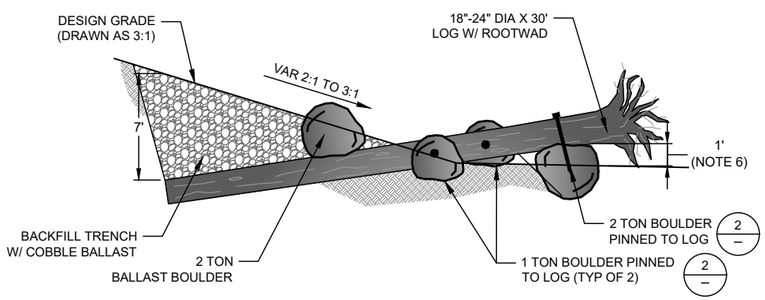
1 / VAR HABITAT WOOD
PLAN VIEW
SCALE: 1" = 5'



2 / VAR LOG TO BOULDER PINNING
TYPICAL DETAIL
SCALE: 1" = 1'



A1 / - HABITAT WOOD PLACEMENT - 10:1 SLOPE
SECTION VIEW
SCALE: 1" = 5'



A2 / - HABITAT WOOD PLACEMENT - 2:1 TO 3:1 SLOPE
SECTION VIEW
SCALE: 1" = 5'

NOTES

1. LOG MUST BE PLACED IN THE PRESENCE OF THE GOVERNMENT REPRESENTATIVE. FIELD FIT AND ADJUST AS NEEDED TO CONFORM IRREGULAR LOGS TO NEAT DIMENSIONS SHOWN.
2. DETAIL SHOWS EMBEDMENT DEPTH ASSUMING THE LOG IS THE MINIMUM LENGTH SPECIFIED. IF LONGER LOG IS USED, INCREASE EMBEDMENT LENGTH AND DEPTH AS NEEDED TO MEET REQUIREMENTS SHOWN. DETAIL SHOWS MAXIMUM EXPOSED LOG LENGTH, LENGTH MAY BE INCREASED IF LONGER LOG IS USED. CONFIRM WITH DESIGN ENGINEER.
3. HABITAT WOOD PLACEMENT WILL BE INSTALLED OVER A RANGE OF ORIENTATION AND A RANGE OF BANK SLOPES. SEE ENHANCEMENT PLANS FOR ORIENTATION.
4. BALLAST BOULDER MUST BEAR DIRECTLY ON LOG.
5. BACKFILL TRENCH WITH COBBLE BALLAST. BACKFILL LIMITS SHOWN ARE SCHEMATIC ONLY. ACTUAL LIMITS WILL VARY.
6. HEIGHT VARIES 1' TO 3' DEPENDING ON BANK SLOPE.

1"=5' 5 2.5 0 5 10
SCALE FEET

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CONTRACT NO.: W912PT-21-C-XXXX
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U.S. ARMY CORPS OF ENGINEERS
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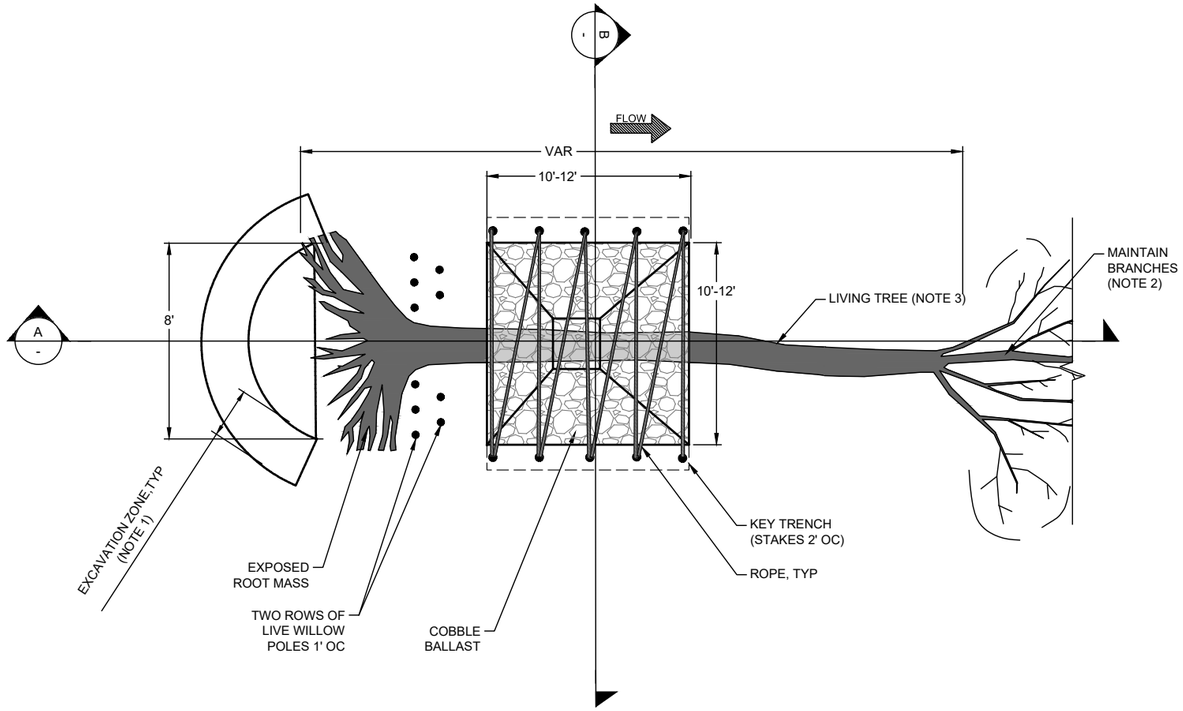
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

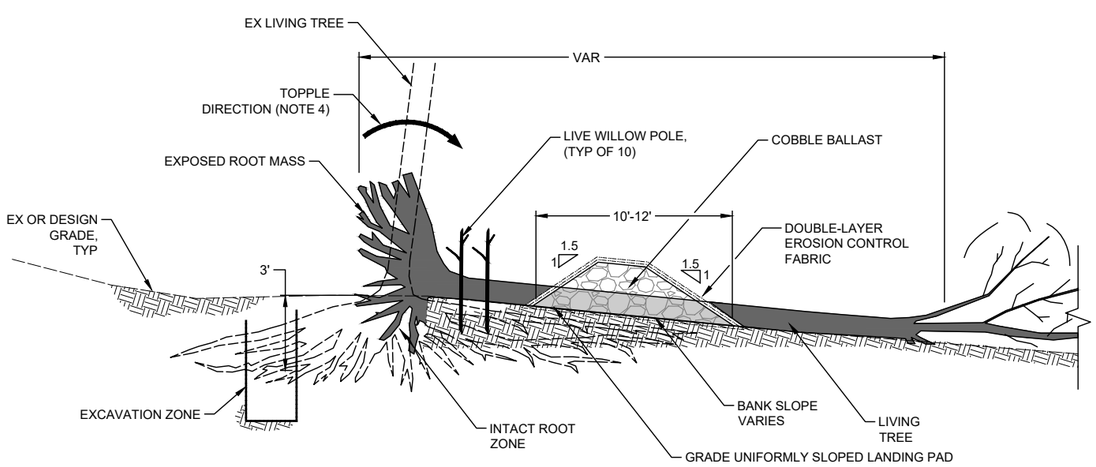
DETAIL - HABITAT WOOD

SHEET ID
CE503

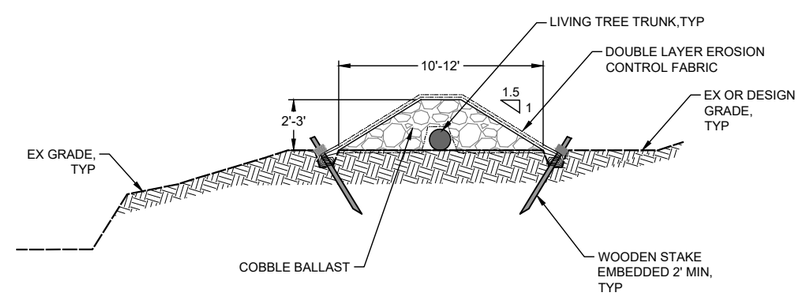
STATUS 99%



1 / VAR TOPPLE TREE
PLAN VIEW
SCALE: 1" = 3'



A / - TOPPLE TREE
PROFILE VIEW
SCALE: 1" = 3'



B / - TOPPLE TREE
SECTION VIEW
SCALE: 1" = 3'

NOTES

1. TOPPLE TREE USING SAFETY PRACTICES CONSISTENT WITH INTERNATIONAL SOCIETY OF ABORICULTURE ANSI Z133. MAINTAIN ROOT MASS AS SHOWN AND RETAIN APPROX. 35% OF THE ROOTS INTACT IN PLACE. BACKFILL EXCAVATED TRENCH WITH COBBLE BALLAST TO APPROX. DESIGN GRADE ELEVATION AND COMPACT TO 85% RC.
2. MAINTAIN BRANCHES AND CANOPY STRUCTURE, GOVERNMENT REPRESENTATIVE MAY PROVIDE GUIDANCE REGARDING REMOVAL OF SELECT BRANCHES TO FACILITATE INSTALLATION.
3. TOPPLE TREE STRUCTURE MAY INCLUDE MULTIPLE TRUNKS.
4. TOPPLE TREE TOWARD CHANNEL, AS SHOWN ON ENHANCEMENT PLANS CG102, CG112, CG122, AND CG132.

1"=3' 3 1.5 0 3 6
SCALE FEET

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CONTRACT NO.: W912P7-22-C-XXXX
DRAWING NO.: DC-1-102

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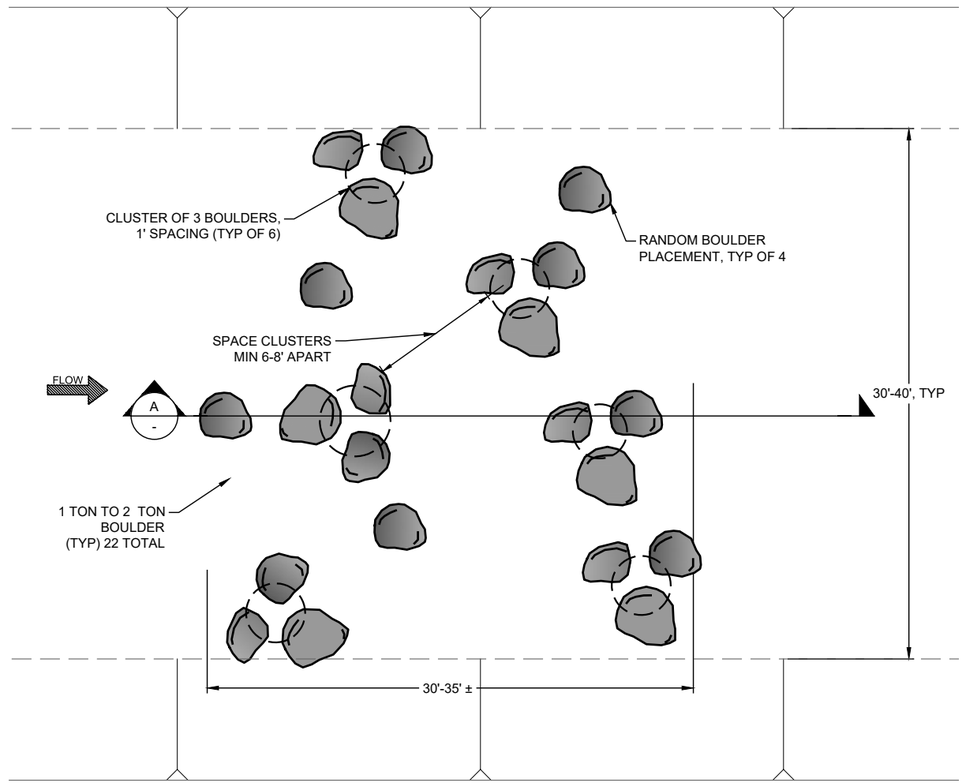
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

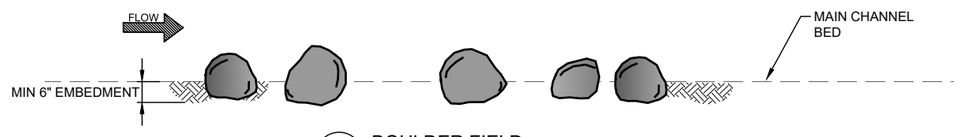
DETAIL - TOPPLE TREE

SHEET ID
CE504
45 OF 53

STATUS 99%



1 / - BOULDER FIELD
PLAN VIEW
SCALE: 1" = 5'



A / - BOULDER FIELD
PROFILE VIEW
SCALE: 1" = 5'

1"=5' 5 2.5 0 5 10
SCALE FEET

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ISSUE DATE: AUG 2020
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CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

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PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

DETAIL - BOULDER FIELD

SHEET ID
CE505
46 OF 53

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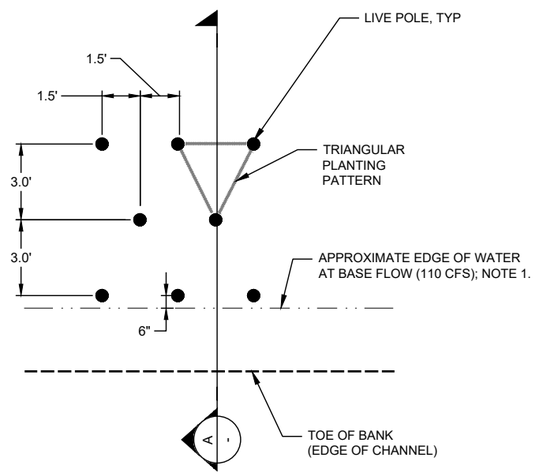
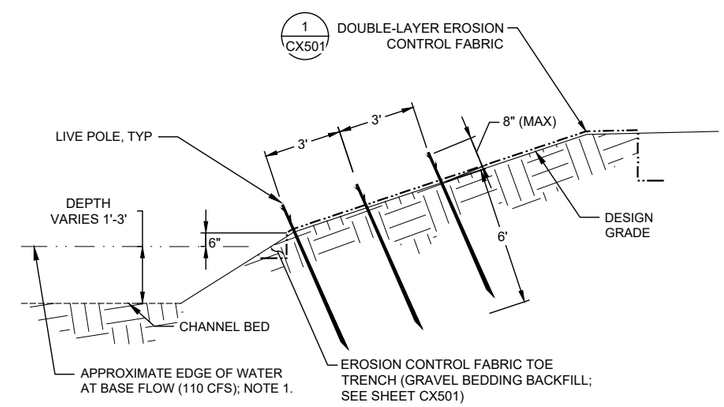
STATUS 99%



1 / VAR LIVE POLE PLANTING
PLAN VIEW SCALE: 1" = 3'



A / - LIVE POLE PLANTING
SECTION VIEW SCALE: 1" = 3'

NOTES

1. BASE FLOW WSE IS APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD.

1"=3' 3 1.5 0 3 6
SCALE FEET

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ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PT-21-B-XXXX
CONTRACT NO.: W912PT-21-C-XXXX
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PETALUMA, CA 94108

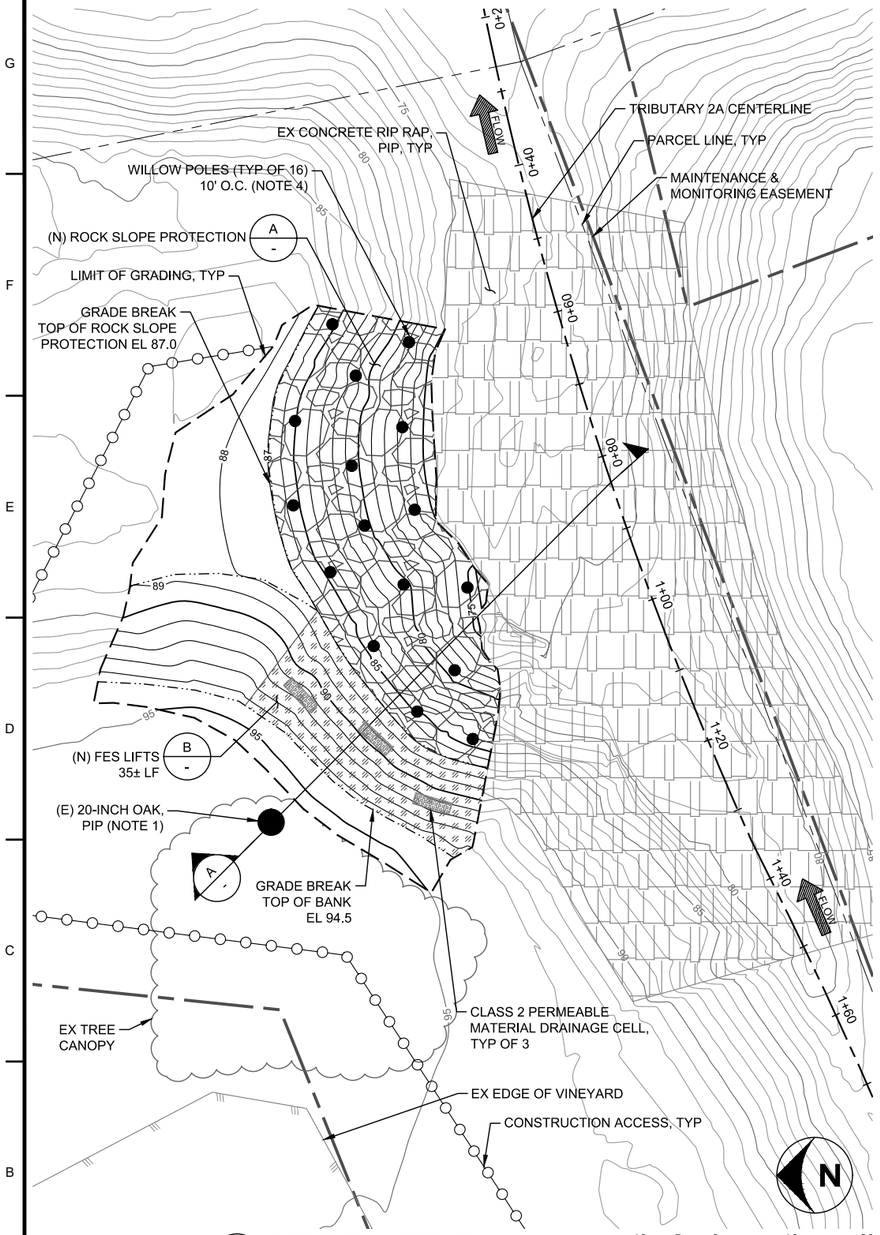
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

DETAIL - LIVE POLE PLANTING

SHEET ID
CE506
47 OF 53

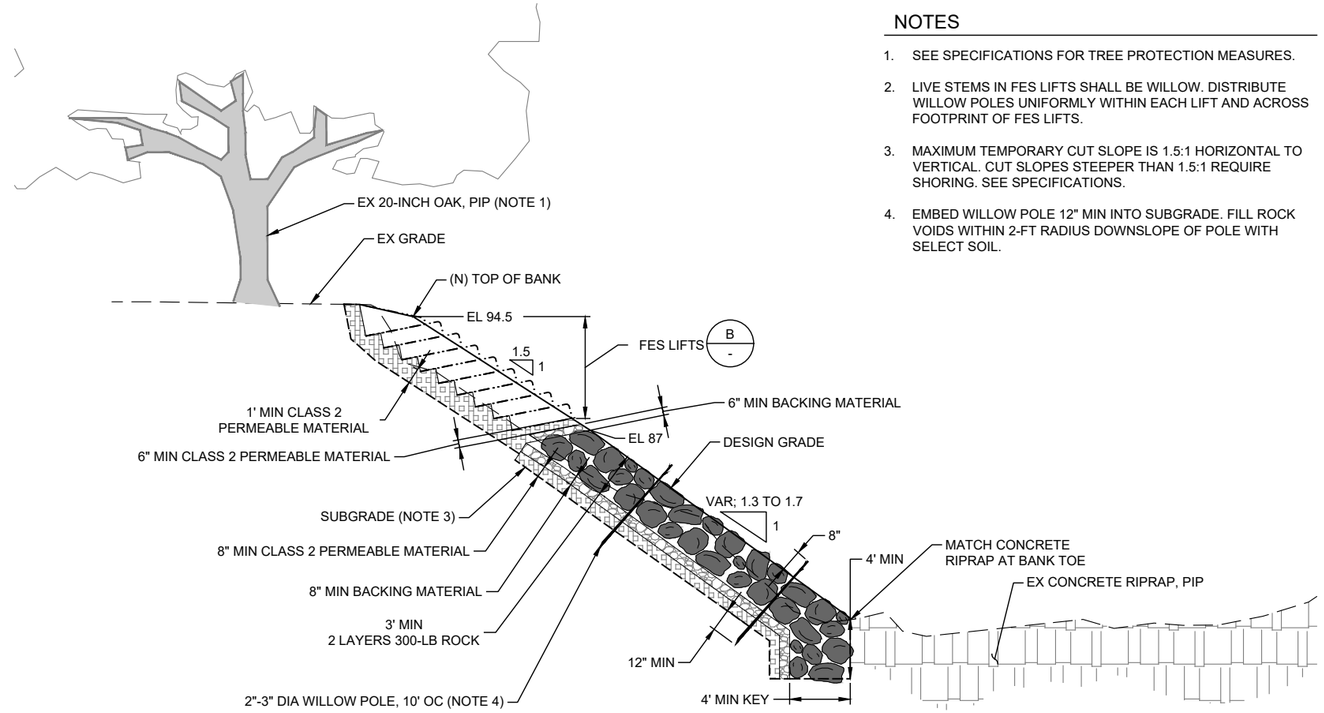
K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_CE507.dwg 04 Aug 2020 - 2:50pm

STATUS 99%



1 VAR SITE 2A BANK REPAIR
PLAN SCALE: 1" = 10'

10 5 0 10 20
SCALE FEET

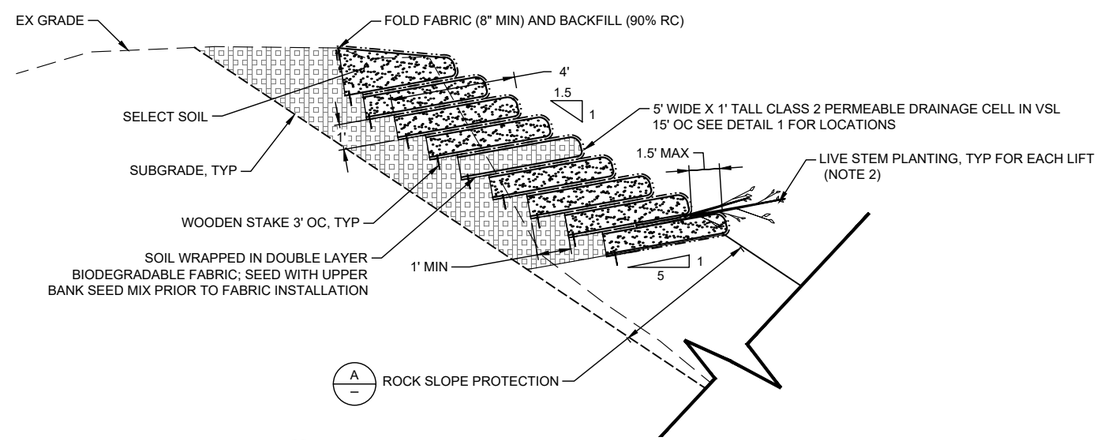


A - ROCK SLOPE PROTECTION
SECTION SCALE: 1" = 5'

5 2.5 0 5 10
SCALE FEET

NOTES

1. SEE SPECIFICATIONS FOR TREE PROTECTION MEASURES.
2. LIVE STEMS IN FES LIFTS SHALL BE WILLOW. DISTRIBUTE WILLOW POLES UNIFORMLY WITHIN EACH LIFT AND ACROSS FOOTPRINT OF FES LIFTS.
3. MAXIMUM TEMPORARY CUT SLOPE IS 1.5:1 HORIZONTAL TO VERTICAL. CUT SLOPES STEEPER THAN 1.5:1 REQUIRE SHORING. SEE SPECIFICATIONS.
4. EMBED WILLOW POLE 12" MIN INTO SUBGRADE. FILL ROCK VOIDS WITHIN 2-FT RADIUS DOWNSLOPE OF POLE WITH SELECT SOIL.



B - FABRIC-ENCAPSULATED SOIL (FES) LIFTS
SECTION SCALE: 1" = 3'

5 2.5 0 5 10
SCALE FEET

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ISSUE DATE: AUG 2020
SOLICITATION NO. W912PT-21-B-XXXX
CONTRACT NO. W912PT-21-C-XXXX
DRAWING NO. DC-1-102

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SUBMITTED BY: XXX
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ENVIRONMENTAL SCIENCE ASSOCIATES
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PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

DETAIL - SITE 2A BANK REPAIR

SHEET ID
CE507
48 OF 53

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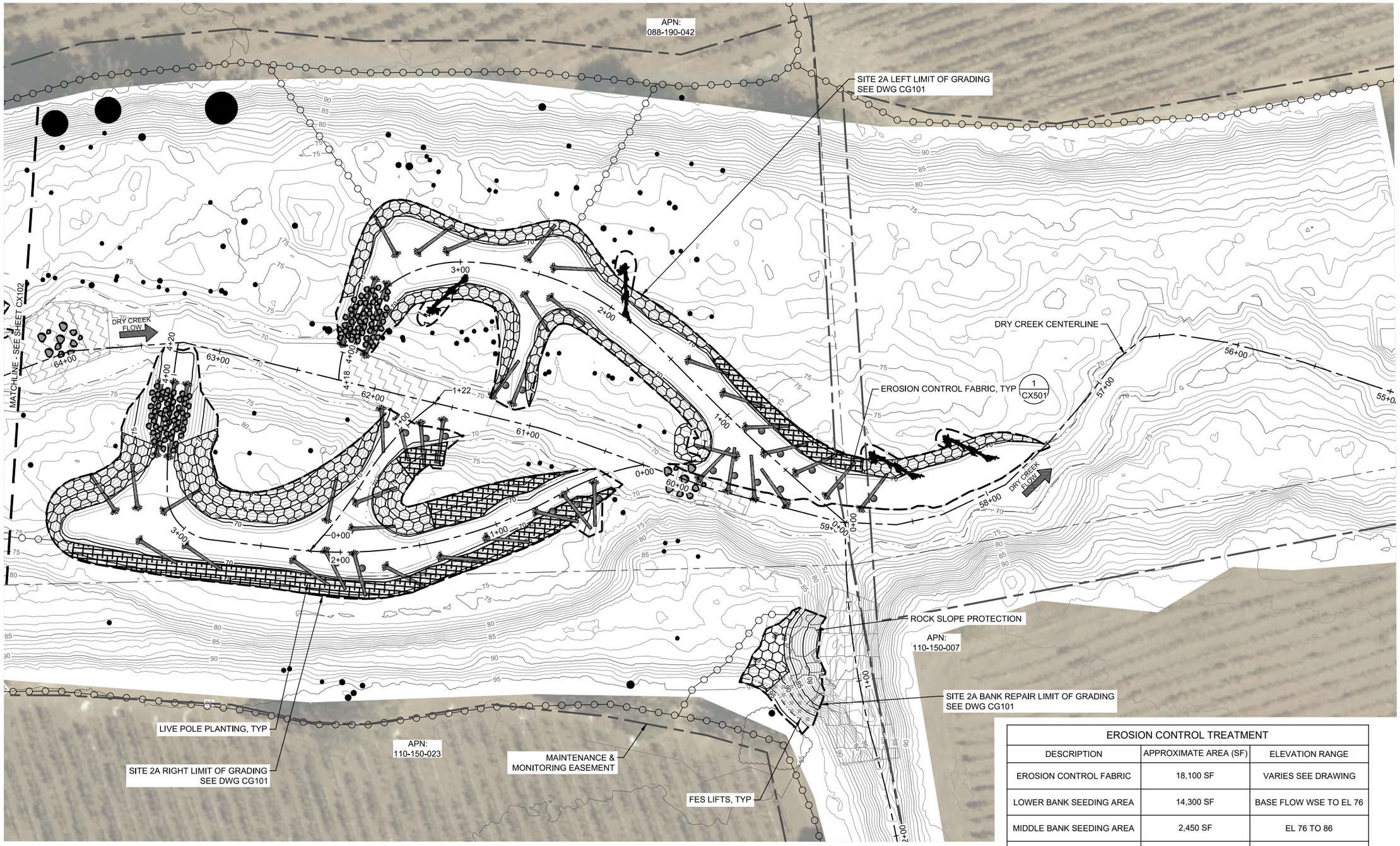
STATUS 99%



NOTES

1. SEE EROSION CONTROL DETAILS DRAWING (CX501) FOR SEED MIXES.
2. SEED ALL ACCESS ROUTES AND DISTURBED AREAS WITH APPROPRIATE SEED MIX.
3. PRIOR TO FABRIC PLACEMENT, SEED ALL DISTURBED AREAS USING APPROPRIATE SEED MIXES (SEE TABLE THIS SHEET).

SITE 2A EROSION CONTROL PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60
SCALE FEET

N

EROSION CONTROL TREATMENT

DESCRIPTION	APPROXIMATE AREA (SF)	ELEVATION RANGE
EROSION CONTROL FABRIC	18,100 SF	VARIES SEE DRAWING
LOWER BANK SEEDING AREA	14,300 SF	BASE FLOW WSE TO EL 76
MIDDLE BANK SEEDING AREA	2,450 SF	EL 76 TO 86
UPPER BANK SEEDING AREA	1,450 SF	> EL 86

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DESIGNED BY: JOW, MAS
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CHECKED BY: MRL
SUBMITTED BY: XXX
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ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-21-C-XXXX
DRAWING NO.: DC-1-102

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450 GOLDEN GATE AVE, 4TH FLOOR
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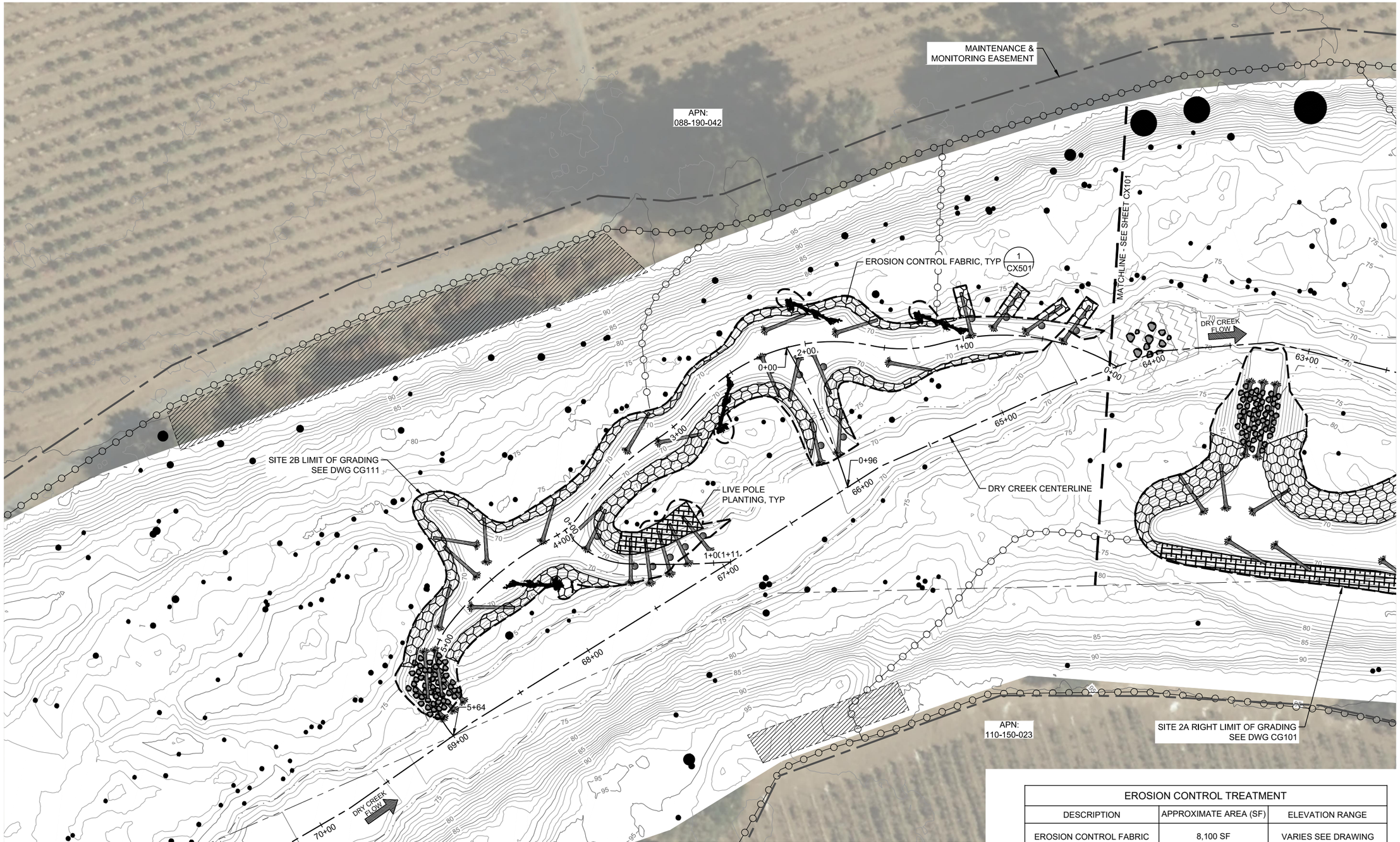
SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2A EROSION CONTROL PLAN

SHEET ID
CX101
49 OF 53

K:\projects_2013\D130163.01 - SCWA Dry Creek Habitat Enhancement Phase 5\10 CAD\Dwgs_GI\ DC1102_SITE2A_CX101.dwg 04 Aug 2020 - 2:51pm

STATUS 99%



NOTES

1. SEE EROSION CONTROL DETAILS DRAWING (CX501) FOR SEED MIXES.
2. SEED ALL ACCESS ROUTES AND DISTURBED AREAS WITH APPROPRIATE SEED MIX.
3. PRIOR TO FABRIC PLACEMENT, SEED ALL DISTURBED AREAS USING APPROPRIATE SEED MIXES (SEE TABLE THIS SHEET).

SITE 2B EROSION CONTROL PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

N

EROSION CONTROL TREATMENT		
DESCRIPTION	APPROXIMATE AREA (SF)	ELEVATION RANGE
EROSION CONTROL FABRIC	8,100 SF	VARIES SEE DRAWING
LOWER BANK SEEDING AREA	7,200 SF	BASE FLOW WSE TO EL 76
MIDDLE BANK SEEDING AREA	900 SF	EL 76 TO 86
UPPER BANK SEEDING AREA	0 SF	> EL 86

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CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
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CONTRACT NO.: W912PT-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
SAN FRANCISCO DISTRICT
450 GOLDEN GATE AVE, 4TH FLOOR
SAN FRANCISCO, CA 94102-3406

ENVIRONMENTAL SCIENCE ASSOCIATES
1425 N MCDOWELL BLVD, SUITE 200
PETALUMA, CA 94108

SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 2B EROSION CONTROL PLAN

SHEET ID
CX102
50 OF 53

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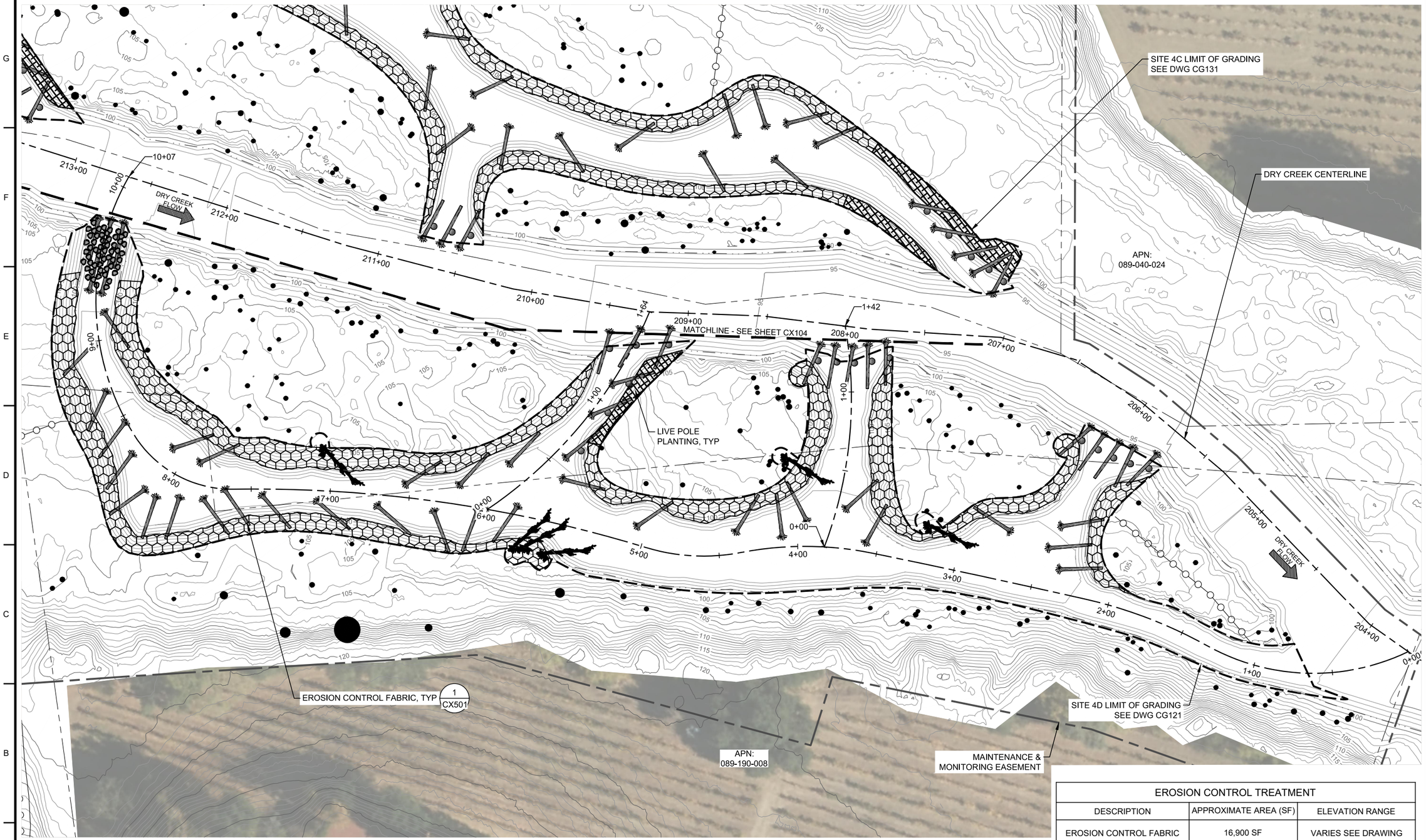
STATUS 99%



NOTES

1. SEE EROSION CONTROL DETAILS DRAWING (CX501) FOR SEED MIXES.
2. SEED ALL ACCESS ROUTES AND DISTURBED AREAS WITH APPROPRIATE SEED MIX.
3. PRIOR TO FABRIC PLACEMENT, SEED ALL DISTURBED AREAS USING APPROPRIATE SEED MIXES (SEE TABLE THIS SHEET).

SITE 4D EROSION CONTROL PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

N

EROSION CONTROL TREATMENT		
DESCRIPTION	APPROXIMATE AREA (SF)	ELEVATION RANGE
EROSION CONTROL FABRIC	16,900 SF	VARIES SEE DRAWING
LOWER BANK SEEDING AREA	14,200 SF	FLOW WSE TO EL 104
MIDDLE BANK SEEDING AREA	2,700 SF	EL104 to 110
UPPER BANK SEEDING AREA	0 SF	> EL 110

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: JOW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: XXX
SIZE: ANSI D
ISSUE DATE: AUG 2020
SOLICITATION NO.: W912PF-21-B-XXXX
CONTRACT NO.: W912PF-21-C-XXXX
DRAWING NO.: DC-1-102

U.S. ARMY CORPS OF ENGINEERS
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SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4D EROSION CONTROL PLAN

SHEET ID
CX103
51 OF 53

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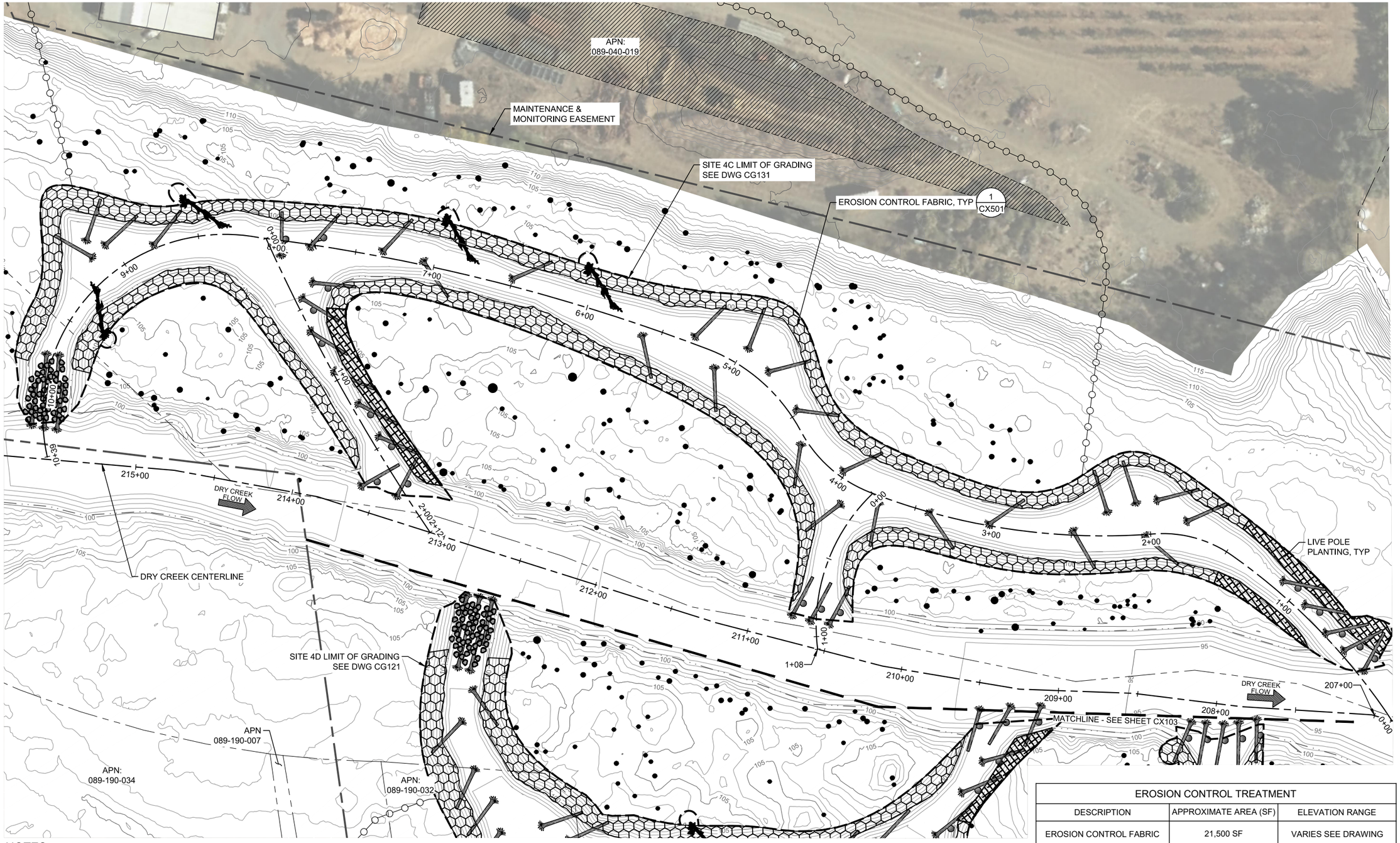
STATUS 99%



NOTES

1. SEE EROSION CONTROL DETAILS DRAWING (CX501) FOR SEED MIXES.
2. SEED ALL ACCESS ROUTES AND DISTURBED AREAS WITH APPROPRIATE SEED MIX.
3. PRIOR TO FABRIC PLACEMENT, SEED ALL DISTURBED AREAS USING APPROPRIATE SEED MIXES (SEE TABLE THIS SHEET).

SITE 4C EROSION CONTROL PLAN

PLAN

SCALE: 1" = 30'

1"=30' 30 15 0 30 60 SCALE FEET

N

EROSION CONTROL TREATMENT		
DESCRIPTION	APPROXIMATE AREA (SF)	ELEVATION RANGE
EROSION CONTROL FABRIC	21,500 SF	VARIES SEE DRAWING
LOWER BANK SEEDING AREA	20,700 SF	FLOW WSE TO EL 104
MIDDLE BANK SEEDING AREA	800 SF	EL104 to 110
UPPER BANK SEEDING AREA	0 SF	> EL 110

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MARK	DESCRIPTION	DATE

DESIGNED BY: JQW, MAS
DRAWN BY: GW
CHECKED BY: MRL
SUBMITTED BY: MRL
SIZE: ANSI D
ISSUE DATE: AUG 2020
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CONTRACT NO. W912PF-22-C-XXXX
DRAWING NO. DC-1-102

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SONOMA COUNTY, CALIFORNIA
DRY CREEK ECOSYSTEM RESTORATION PROJECT - PHASE II (REACHES 2A UPSTREAM AND 4C)

SITE 4C EROSION CONTROL PLAN

SHEET ID
CX104
52 OF 53

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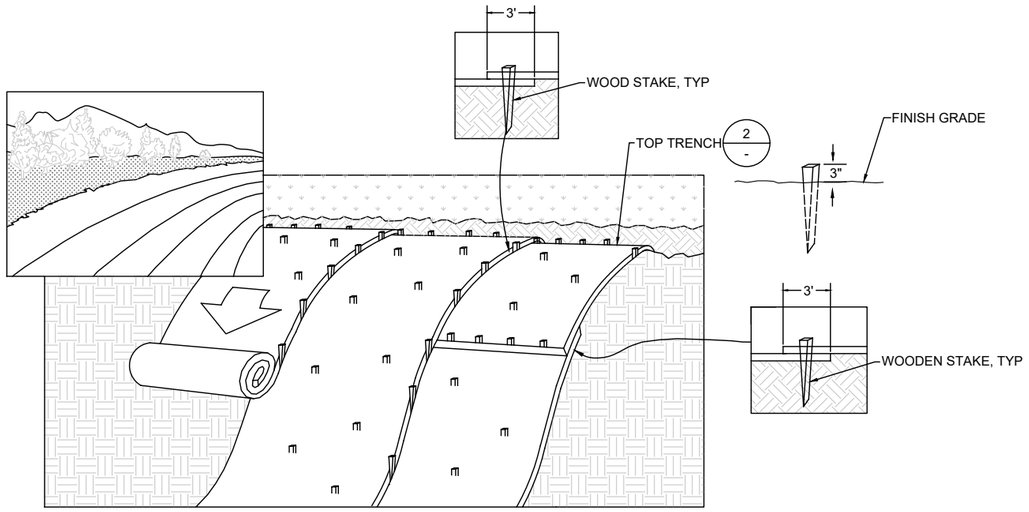
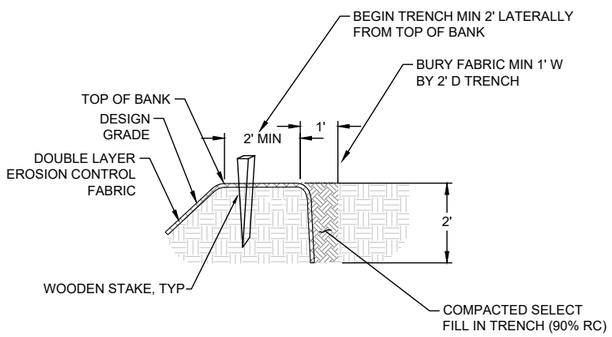
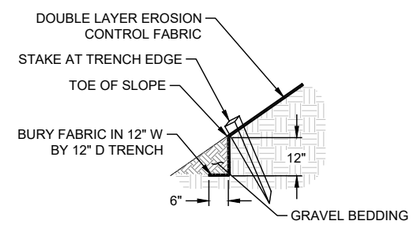
STATUS 99%



1 VAR EROSION CONTROL FABRIC
ISOMETRIC VIEW
SCALE: NTS



2 - TOP TRENCH DETAIL
SECTION VIEW
SCALE: 1" = 2'



3 - BOTTOM TRENCH DETAIL
SECTION VIEW
SCALE: 1" = 2'

SEED MIX TABLE

LATIN NAME	COMMON NAME	LBS/ACRE
LOWER BANK SEEDING AREA		
AGROSTIS EXARATA	SPIKE BENTGRASS	2
ELEOCHARIS MACROSTACHYA	CREEPING SPIKERUSH	2
FESTUCA RUBRA	RED FESCUE	5
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	10
LEYMUS TRITICOIDES	CREEPING WILDRYE	10
FESTUCA MICROSTACHYS	SMALL FESCUE	5
TRIFOLIUM WORMSKIOLDII	COW CLOVER	1
	TOTAL	35
MIDDLE BANK SEEDING AREA		
BROMUS CARINATUS	CALIFORNIA BROME	5
ELYMUS GLAUCUS	BLUE WILDRYE	5
FESTUCA MICROSTACHYS	SMALL FESCUE	5
FESTUCA RUBRA	RED FESCUE	10
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	10
LEYMUS TRITICOIDES	CREEPING WIDLRYE	5
	TOTAL	40
UPPER BANK SEEDING AREA		
ACHILLEA MILLEFOLIUM	YARROW	1
BROMUS CARINATUS	CALIFORNIA BROME	10
ELYMUS GLAUCUS	BLUE WILDRYE	8
ESCSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1
FESTUCA MIRCOSTACHYS	SMALL FESCUE	5
ACMISPON AMERICANUS	SPANISH CLOVER	2
LUPINUS BICOLOR	MINIATURE LUPINE	1
BACCHARIS PILULARIS	COYOTE BRUSH	2
STIPA PULCHRA	PURPLE NEEDLEGRASS	10
	TOTAL	40

NOTES

1. FINISH GRADE SURFACE SHALL BE CLEARED OF LOOSE ROCKS, CLODS, STICKS AND GRASS BEFORE FABRIC INSTALLATION
2. USE TWO LAYERS (DOUBLE LAYER) BIODEGRADABLE COIR EROSION CONTROL FABRIC. PLACE WOVEN FABRIC ON UNWOVEN FABRIC AND SECURE
3. HYDROSEED SLOPE WITH NATIVE SEED MIX BEFORE PLACING FABRIC.
4. LAY FABRIC LOOSELY AND STAKE 2' OC (VERTICAL) AND 2' OC (HORIZONTAL) TO MAINTAIN DIRECT CONTACT WITH THE FINISH GRADE SURFACE. DO NOT STRETCH.
5. FABRIC SHALL BE INSTALLED VERTICALLY DOWNSLOPE AND OVERLAPPED A MIN OF 3' IN DOWNSTREAM DIRECTION.
6. FABRIC SHALL BE EXTENDED MIN 2' LATERALLY FROM THE TOP OF BANK, SECURED PER DETAIL THIS SHEET.

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DETAIL - EROSION CONTROL

SHEET ID
CX501
53 OF 53

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