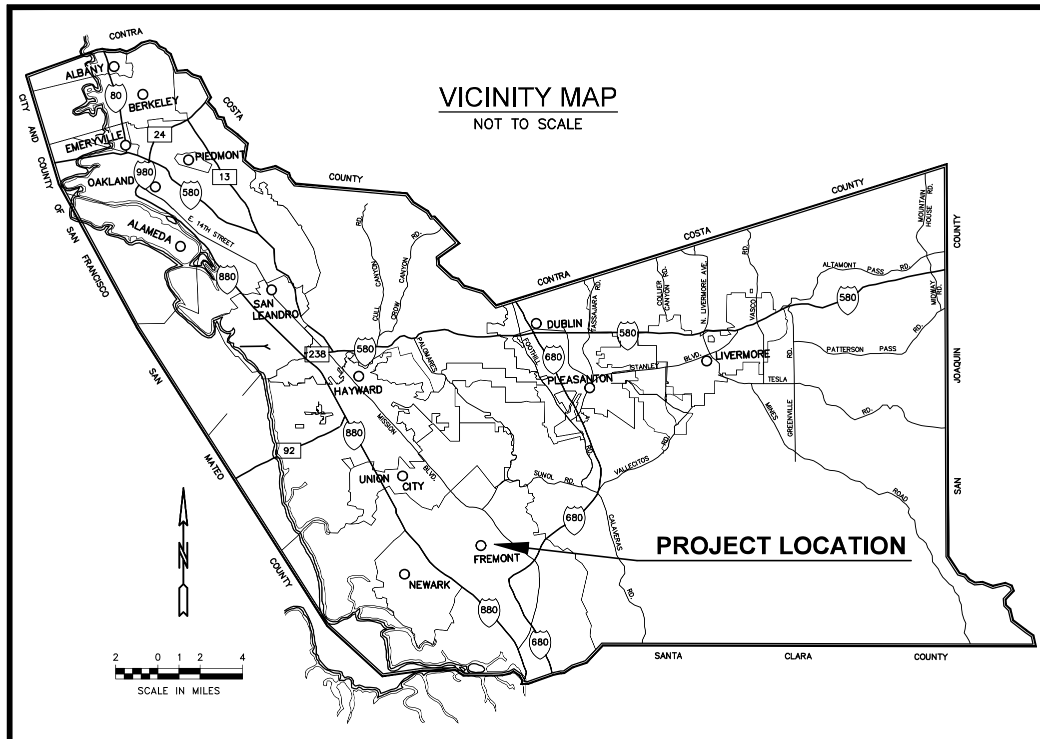
VICINITY MAP

NOT TO SCALE




# ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

## 11/8/2021

# ALAMEDA CREEK (LINE A) RESTORATION PROJECT DOWNSTREAM OF BART WIER TO DOWNSTREAM OF DECOTO ROAD (CORPS STA 357+61.92 TO 515+83.14) CITY OF FREMONT

## ALAMEDA CREEK

## INDEX OF SHEETS

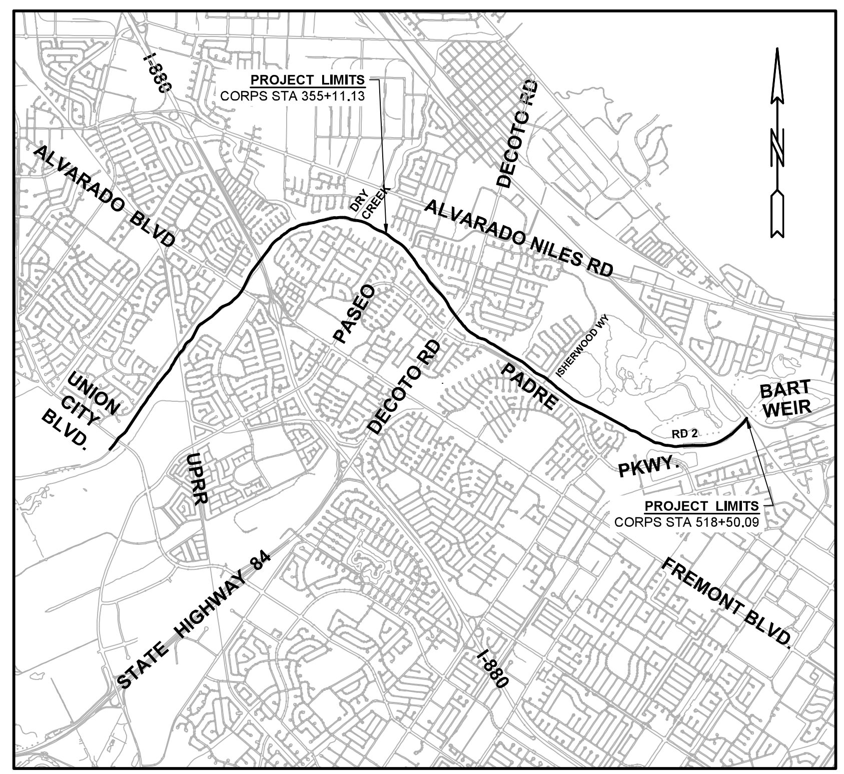


## CONVENTIONAL SYMBOLS

- PROPERTY, RIGHT OF WAY AND EASEMENT LINES OTHER THAN THOSE FOR PROJECT
- PROJECT RIGHT OF WAY AND EASEMENT LINES
- CONSTRUCTION CENTER LINE (10, 11)
- TRAVERSE OR SURVEY LINE AND MONUMENT
- CENTER LINE
- CENTER LINE OF CHANNEL, CREEK, OR DITCH
- TOE OF FILL OR SLOPE
- TOP OF CUT OR BANK
- CONCRETE CHANNEL
- ROAD
- EDGE OF PAVEMENT (EP)
- PCC EXTRUDED CURB OR AC BERM
- PCC SIDEWALK, CURB GUTTER & DRIVEWAY
- GUARD RAIL OR BARRICADE
- FENCE (SPECIFY TYPE) (X)
- CHAIN-LINK FENCE
- RAILROAD
- BUILDING
- SHRUBBERY
- MAIL BOX
- TREE
- TREE TO BE REMOVED
- CHANNEL SLOPE

EXISTING UTILITIES:

- WATER (W)
- GAS (G)
- SANITARY SEWER (SS)
- OIL (O)
- GASOLINE (GS)
- STORM DRAIN (SD, MH)
- ELECTRICAL (E)
- ELECTRICAL UNDERGROUND (UE)
- TELEPHONE (T)
- TELEPHONE UNDERGROUND (UT)
- CABLE TV (CTV)
- CABLE TV UNDERGROUND (UCTV)
- TRANSMISSION LINE AND TOWER
- DROP INLET (DI)
- ELECTROLIER
- FIRE HYDRANT
- MANHOLE (MH)
- MONUMENT (EXISTING, PROPOSED)
- UTILITY POLES: JOINT POLE (JP), POWER POLE (PP), TELEPHONE POLE (TP), GUY POLE (GP)
- RIGHT OF WAY MARKER
- ROADWAY SIGN
- STREET NAME SIGN
- WATER METER (WM)
- WATER VALVE (WV)




LOCATION MAP

NOT TO SCALE

● THE CONTRACTOR SHALL POSSESS EITHER A CLASS A OR CLASS C-12 LICENSE AT THE TIME THIS CONTRACT IS AWARDED AND THROUGHOUT THE DURATION OF THE CONSTRUCTION CONTRACT.

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY — DATE

DEPARTMENT

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|

QUESTA ENGINEERING CORP. Civil, Environmental & Water Resources. P.O. Box 70356, 1220 Brickyard Cove Road, Point Richmond, CA 94807. (510) 236-6114, FAX (510) 236-2423, questa@questaec.com

DRAWN: KT — CHECKED: ST — DESIGNED: ST — APPROVED: ST

REVIEWED: PROJECT ENGINEER NAME — REVIEWED: MOSES TSANG — APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

ALAMEDA CREEK RESTORATION PROJECT CORPS STA 355+11.13 TO 518+50.09

COVER SHEET

WORK ORDER NO. 2100035

SPECIFICATION NO. ––––

SHEET NO. 1 OF 54

FILE NO. ––––

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY | DATE

DEPARTMENT

PLAN - CONSTRUCTION SITE PREPARATION

SCALE: 1"=1000'

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

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REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

APPROVED

REGISTERED PROFESSIONAL ENGINEER
ENGINEER NAME
No. Structural ####
No. #####
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

APPROVAL DATE:

QUESTA ENGINEERING CORP.
Civil Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com

DRAWN: KT
CHECKED: ST
DESIGNED: ST
APPROVED: ST

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED:: HANK ACKERMAN

# ALAMEDA CREEK RESTORATION PROJECT
## CORPS STA 355+11.13 TO 518+50.09
## HAUL ROUTE

DATE | SCALE

WORK ORDER NO. 2100035

SPECIFICATION NO. ----

SHEET NO. 7 OF 54

FILE NO. ----

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

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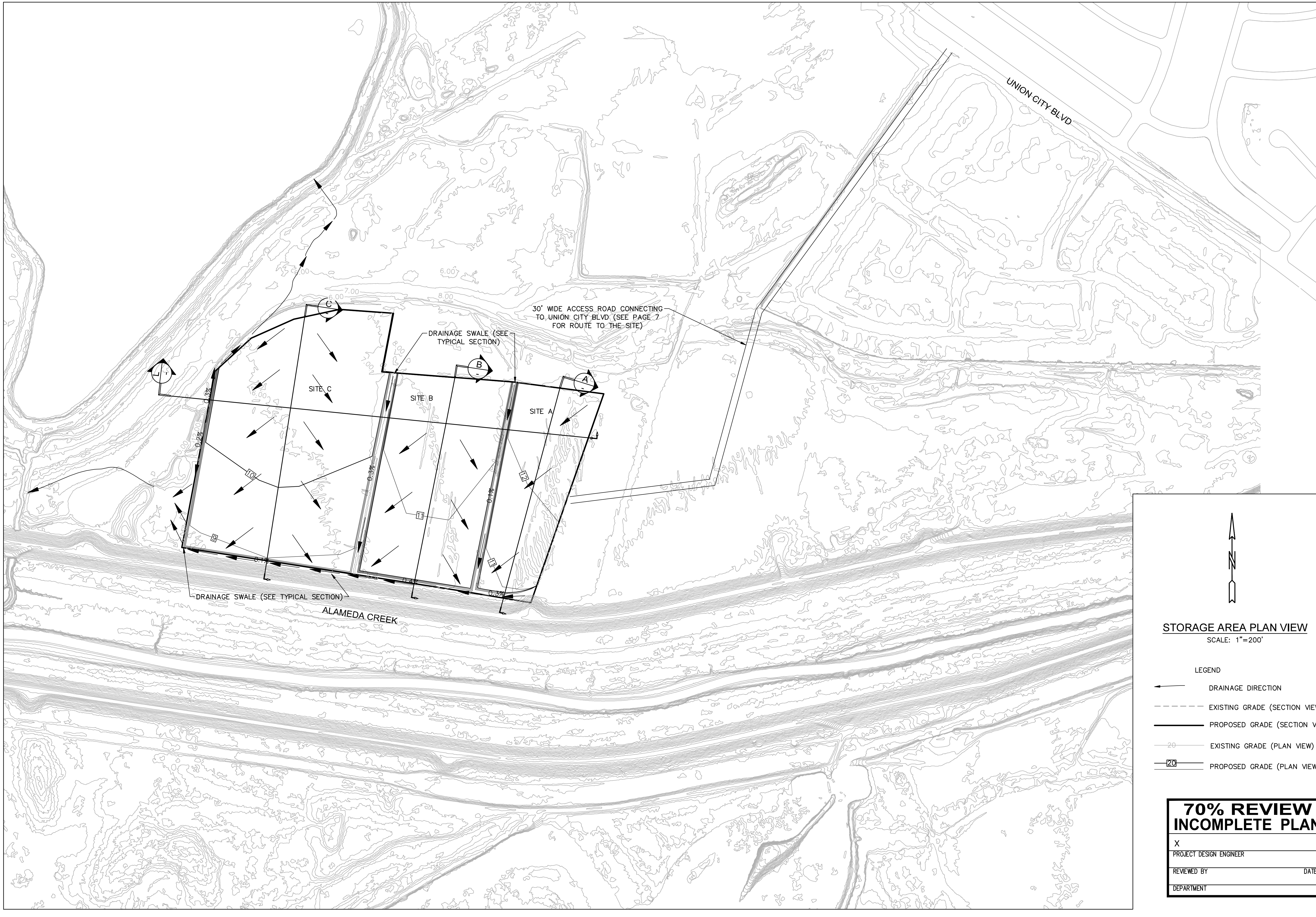


## STORAGE AREA PLAN VIEW

SCALE: 1"=200'

LEGEND

- DRAINAGE DIRECTION
- EXISTING GRADE (SECTION VIEW)
- PROPOSED GRADE (SECTION VIEW)
- 20 EXISTING GRADE (PLAN VIEW)
- 20 PROPOSED GRADE (PLAN VIEW)

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY DATE

DEPARTMENT

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

0 1 2 3

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APP'D |
|---|---|---|---|---|
| | | | | |

REGISTERED PROFESSIONAL ENGINEER, ENGINEER NAME, No. Structural ####, No. #####, CIVIL-GEOTECHNICAL, STATE OF CALIFORNIA

APPROVED

APPROVAL DATE:

QUESTA ENGINEERING CORP.

Civil, Environmental & Water Resources

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DRAWN: KT | DESIGNED: ST | CHECKED: ST | APPROVED: ST

REVIEWED: PROJECT ENGINEER NAME

REVIEWED: MOSES TSANG

APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

ALAMEDA CREEK RESTORATION PROJECT

CORPS STA 355+11.13 TO 518+50.09

**STORAGE AREA PLAN**

DATE | SCALE

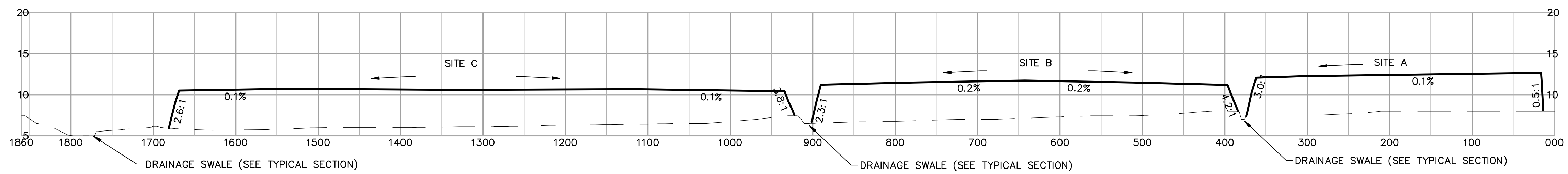
WORK ORDER NO. 2100035

SPECIFICATION NO. ----

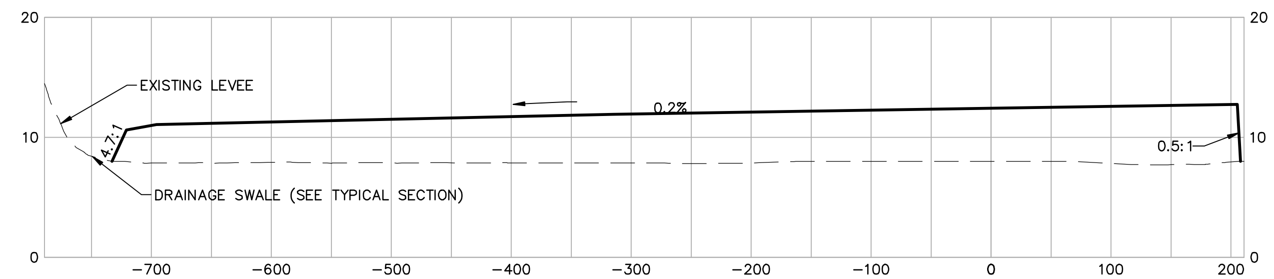
SHEET NO. 8 OF 54

FILE NO. ----

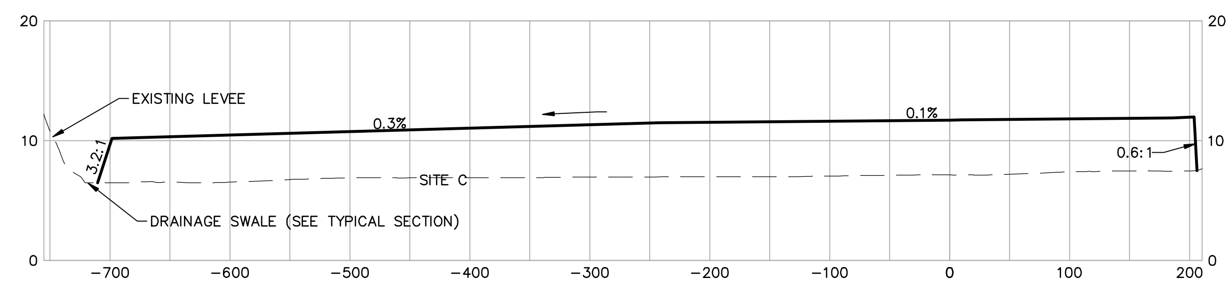
LONGITUDINAL SECTION CUT



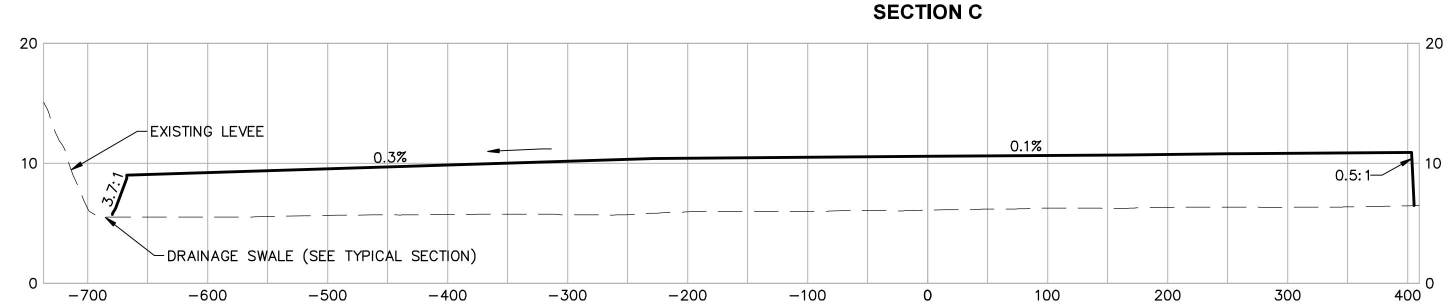

SECTION A




SECTION B




SECTION C




SECTION CUTS
HORZ SCALE: 1"=100'
VERT SCALE: 1"=10'

## Cut/Fill Summary

| Name | 2d Area | Net |
|---|---|---|
| SiteC_vol | 797299 Sq. Ft. | 117864 Cu. Yd.<Fill> |
| SiteB_vol | 471743 Sq. Ft. | 68997 Cu. Yd.<Fill> |
| SiteA_vol | 296991 Sq. Ft. | 44543 Cu. Yd.<Fill> |
| Totals | 1566033 Sq. Ft. | 231404 Cu. Yd.<Fill> |

**70% REVIEW**
**INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

ALAMEDA CREEK
RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09

**STORAGE AREA SECTION**

QUESTA ENGINEERING CORP.

REVISIONS

WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 9 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

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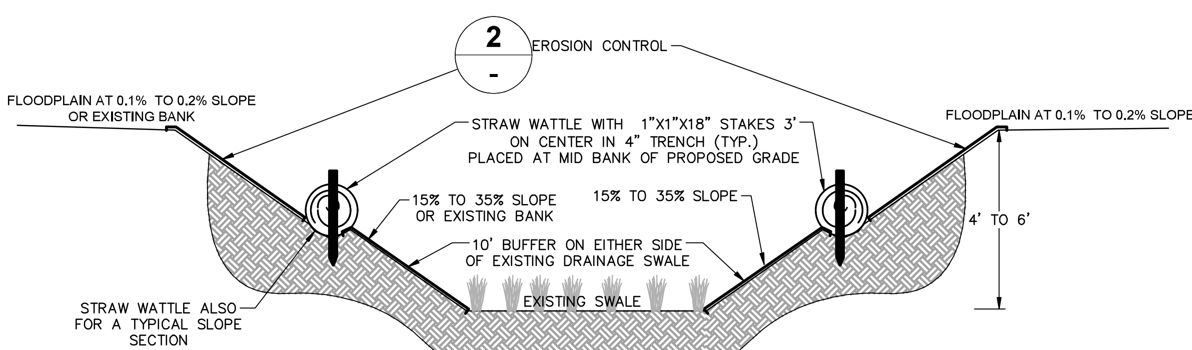
EROSION CONTROL PLAN VIEW

SCALE: 1"=100'

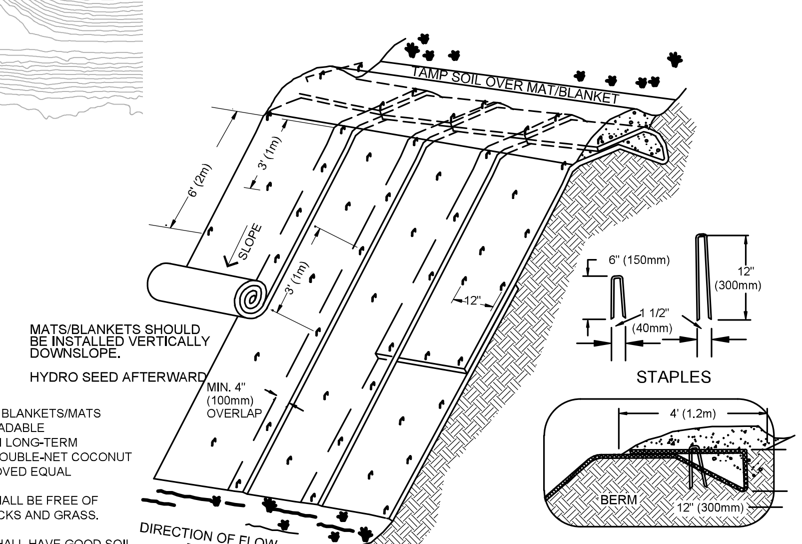



1 TYPICAL DRAINAGE SWALE DETAIL

NOT TO SCALE (SEE GRADING SECTION FOR DIMENTION)

NOTES:

1. EROSION CONTROL BLANKETS/MATS SHALL BE BIODEGRADABLE USE BIONET C125BN LONG-TERM BIODEGRADABLE, DOUBLE-NET COCONUT BLANKET OR APPROVED EQUAL
2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS.
3. MATS/ BLANKETS SHALL HAVE GOOD SOIL CONTACT.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.




2 EROSION CONTROL

NOT TO SCALE

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY | DATE

DEPARTMENT

| REVIEWED BY: | DATE: | | REVIEWED BY: | DATE: |
|---|---|---|---|---|
| CONSTRUCTION | | SURVEY | | |
| MAINTENANCE | | TRAFFIC | | |
| REAL ESTATE | | ENVIRONMENTAL | | |

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REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|

REGISTERED PROFESSIONAL ENGINEER NAME No. ##### Structural CIVIL-GEOTECHNICAL STATE OF CALIFORNIA

APPROVED

APPROVAL DATE:

QUESTA ENGINEERING CORP.

Civil Environmental & Water Resources

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

DRAWN: KT | DESIGNED: ST | CHECKED: ST | APPROVED: ST

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED: PROJECT ENGINEER NAME

REVIEWED: MOSES TSANG

APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT CORPS STA 355+11.13 TO 518+50.09

EROSION CONTROL AT DISCHARGE AREA

DATE | SCALE

WORK ORDER NO. 2100035

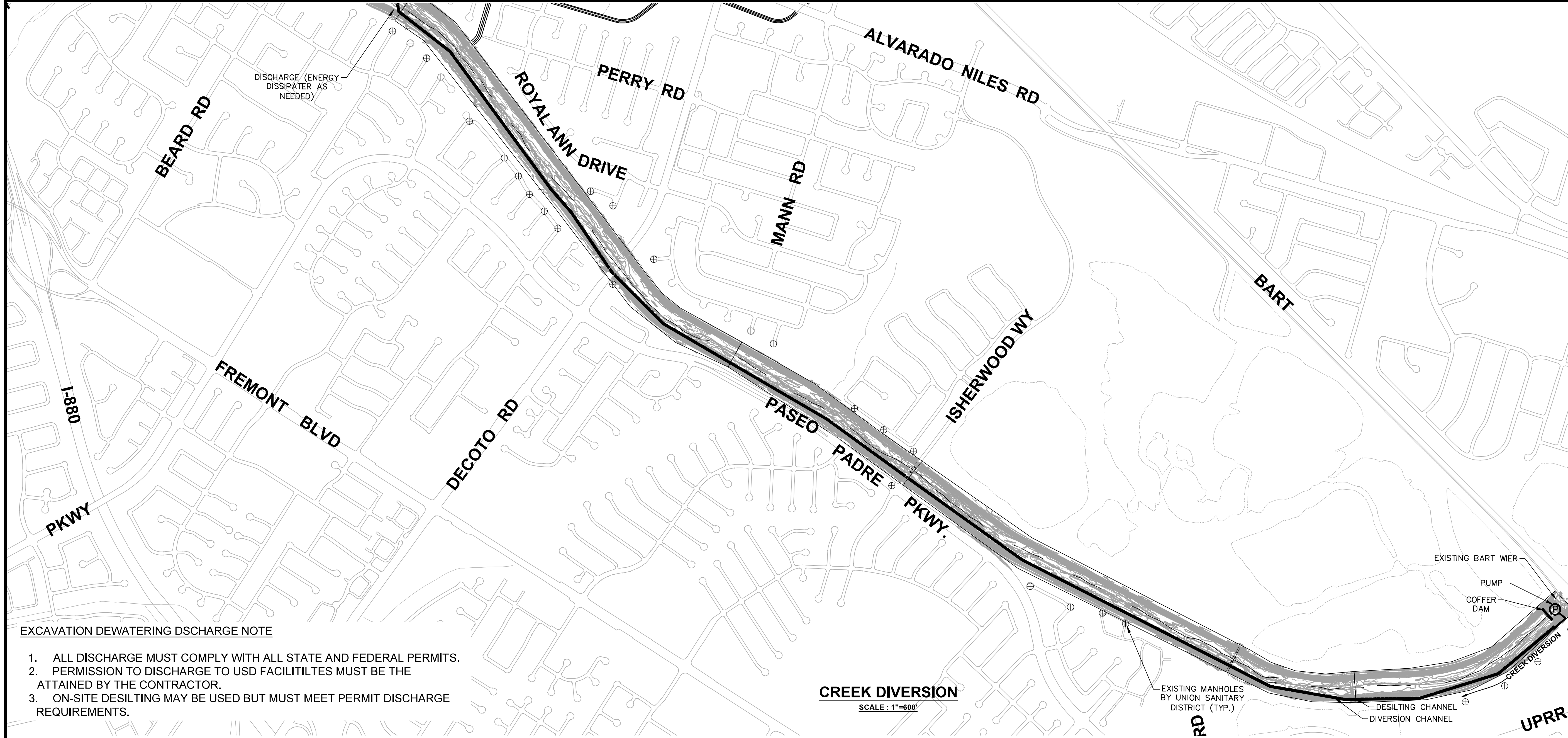
SPECIFICATION NO. ----

SHEET NO. 10 OF 54

FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

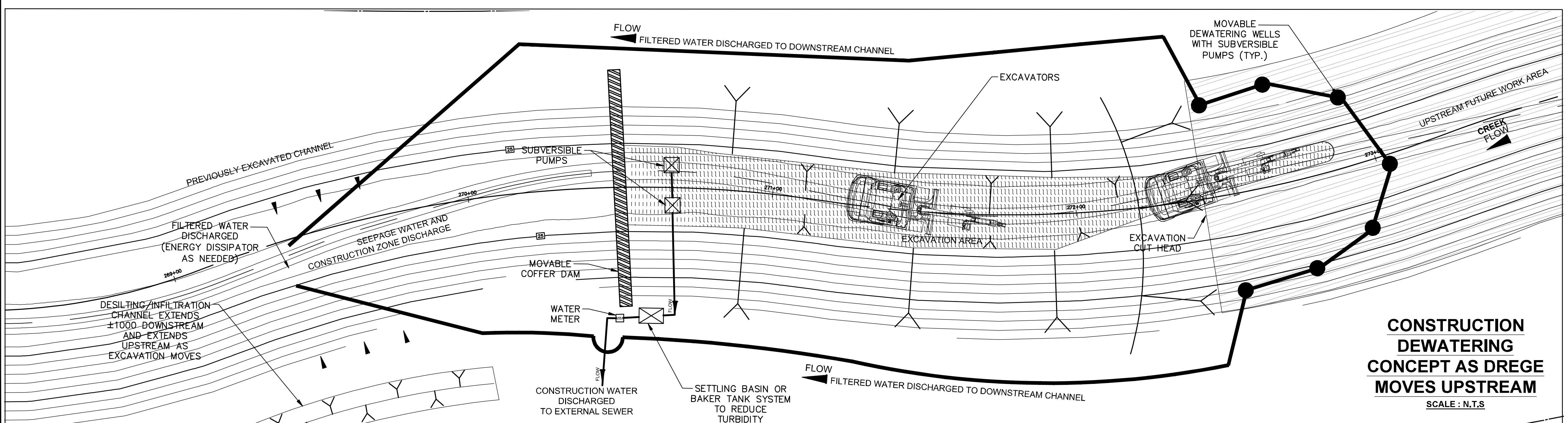
0 1 2 3




**CREEK DIVERSION**
SCALE : 1"=600'

EXCAVATION DEWATERING DSCHARGE NOTE

1. ALL DISCHARGE MUST COMPLY WITH ALL STATE AND FEDERAL PERMITS.
2. PERMISSION TO DISCHARGE TO USD FACILITILTES MUST BE THE ATTAINED BY THE CONTRACTOR.
3. ON-SITE DESILTING MAY BE USED BUT MUST MEET PERMIT DISCHARGE REQUIREMENTS.




**CONSTRUCTION DEWATERING CONCEPT AS DREGE MOVES UPSTREAM**
SCALE : N.T.S

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

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**70% REVIEW INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|
| | | | | |

REGISTERED PROFESSIONAL ENGINEER — ENGINEER NAME — No. Structural #### — CIVIL-GEOTECHNICAL — STATE OF CALIFORNIA

APPROVAL DATE:
INSERT APPROPRIATE STAMP

QUESTA ENGINEERING CORP.
Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com

DESIGNED: ST
DRAWN: KT
CHECKED: ST
APPROVED: ST

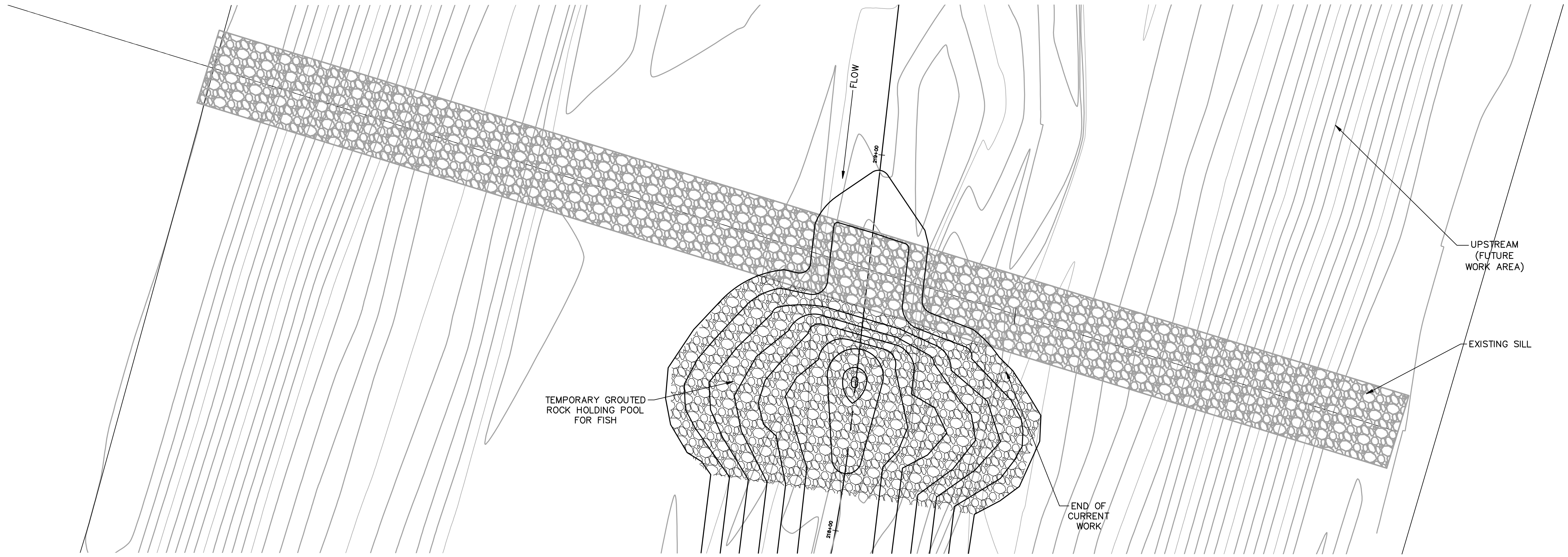
REVIEWED:
PROJECT ENGINEER NAME
REVIEWED:
MOSES TEANG
APPROVAL RECOMMENDED:
HANK ACKERMAN

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

**ALAMEDA CREEK RESTORATION PROJECT**
**CORPS STA 355+11.13 TO 518+50.09**
**DEWATERING CONCEPT**

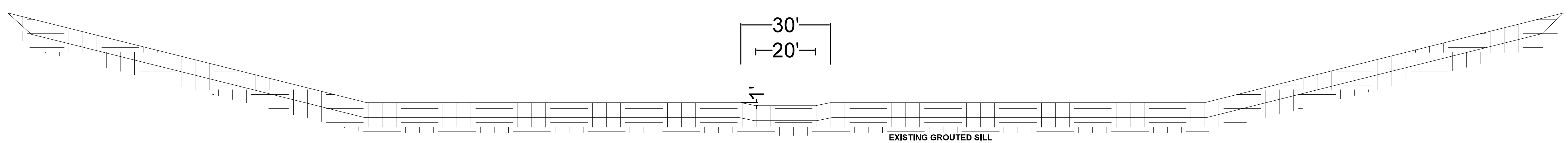
DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 11 OF 54
FILE NO. ----

| REVIEWED BY: | DATE: | | REVIEWED BY: | DATE: |
|---|---|---|---|---|
| CONSTRUCTION | | SURVEY | | |
| MAINTENANCE | | TRAFFIC | | |
| REAL ESTATE | | ENVIRONMENTAL | | |




PLAN VIEW
SCALE: 1"=16'

TEMPORARY NOTCH




SECTION VIEW
SCALE: 1"=16'

**70% REVIEW INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|

APPROVED

REGISTERED PROFESSIONAL ENGINEER NAME
No. Structural ####
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

APPROVAL DATE:

QUESTA ENGINEERING CORP.
Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

DRAWN: KT
CHECKED: ST
DESIGNED: ST
APPROVED: ST

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK
RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09

**TEMP GRADE CONTROL**

DATE | SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 12 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3

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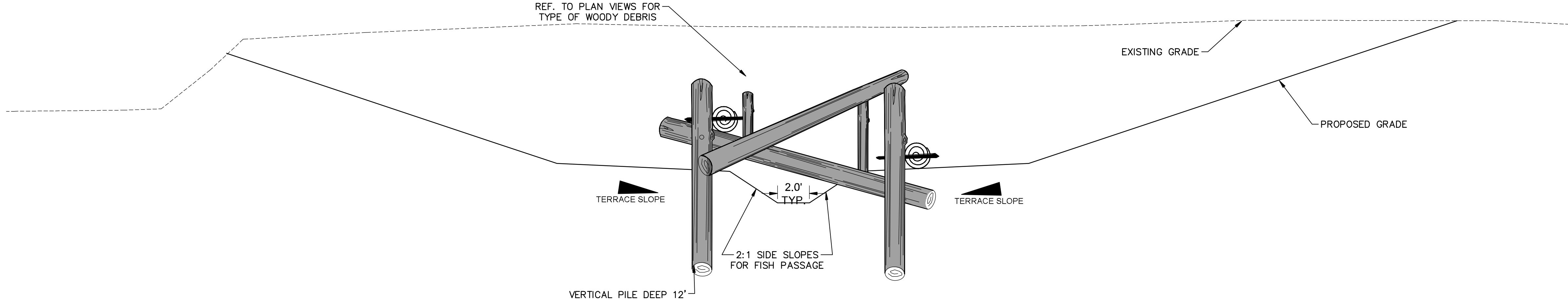
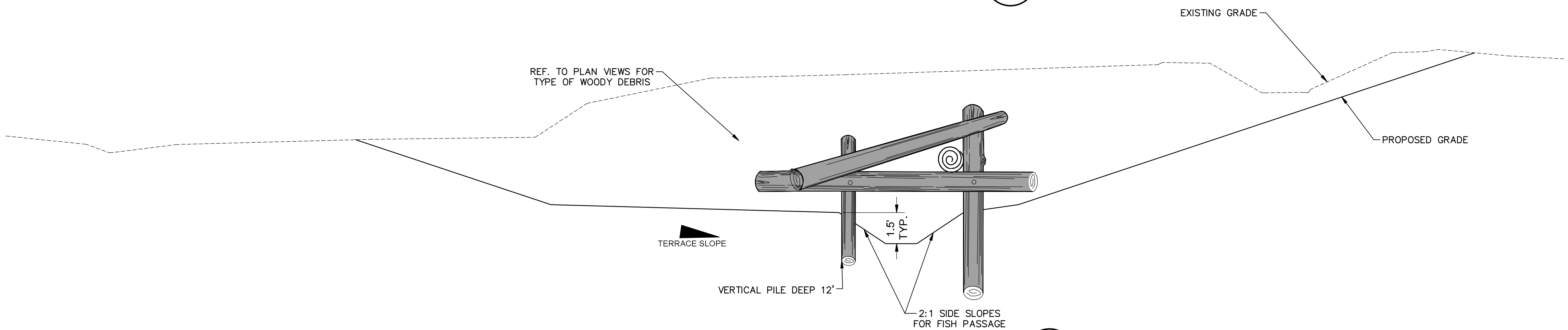


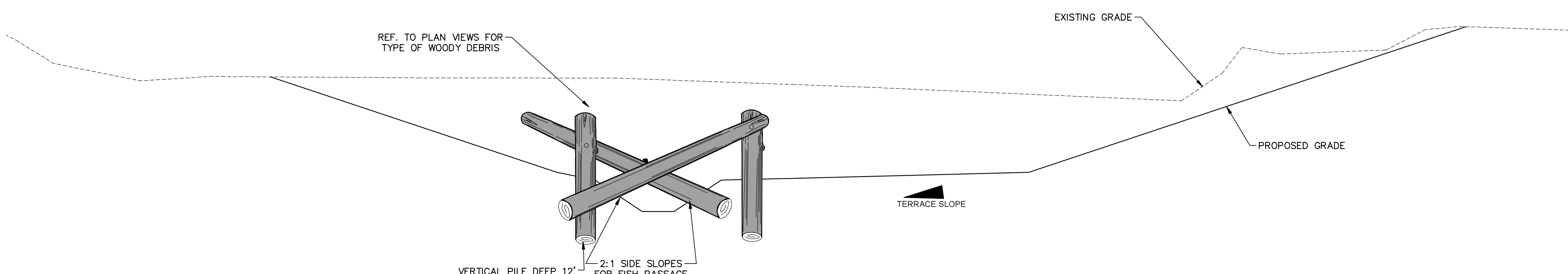

## TYPICAL SECTION - MIDDLE MEANDERING (1/-)

NTS




## TYPICAL SECTION - RIGHTSIDE MEANDERING (2/-)

NTS




## TYPICAL SECTION - LEFTSIDE MEANDERING (3/-)

NTS

**70% REVIEW**
**INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY DATE

DEPARTMENT

| | REVIEWED BY: | DATE: | | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| CONSTRUCTION | | | SURVEY | | |
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

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0 1 2 3

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Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

DRAWN: KT CHECKED: ST DESIGNED: ST APPROVED: ST

REGISTERED PROFESSIONAL ENGINEER – ENGINEER NAME – No. ##### – Structural – CIVIL-GEOTECHNICAL – STATE OF CALIFORNIA

APPROVED — APPROVAL DATE:

INSERT APPROPRIATE STAMP

**COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY**

REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

**ALAMEDA CREEK RESTORATION PROJECT**
**CORPS STA 355+11.13 TO 518+50.09**

**TYPICAL SECTIONS**

DATE | SCALE

WORK ORDER NO. 2100035

SPECIFICATION NO. ----

SHEET NO. 39 OF 54

FILE NO. ----

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

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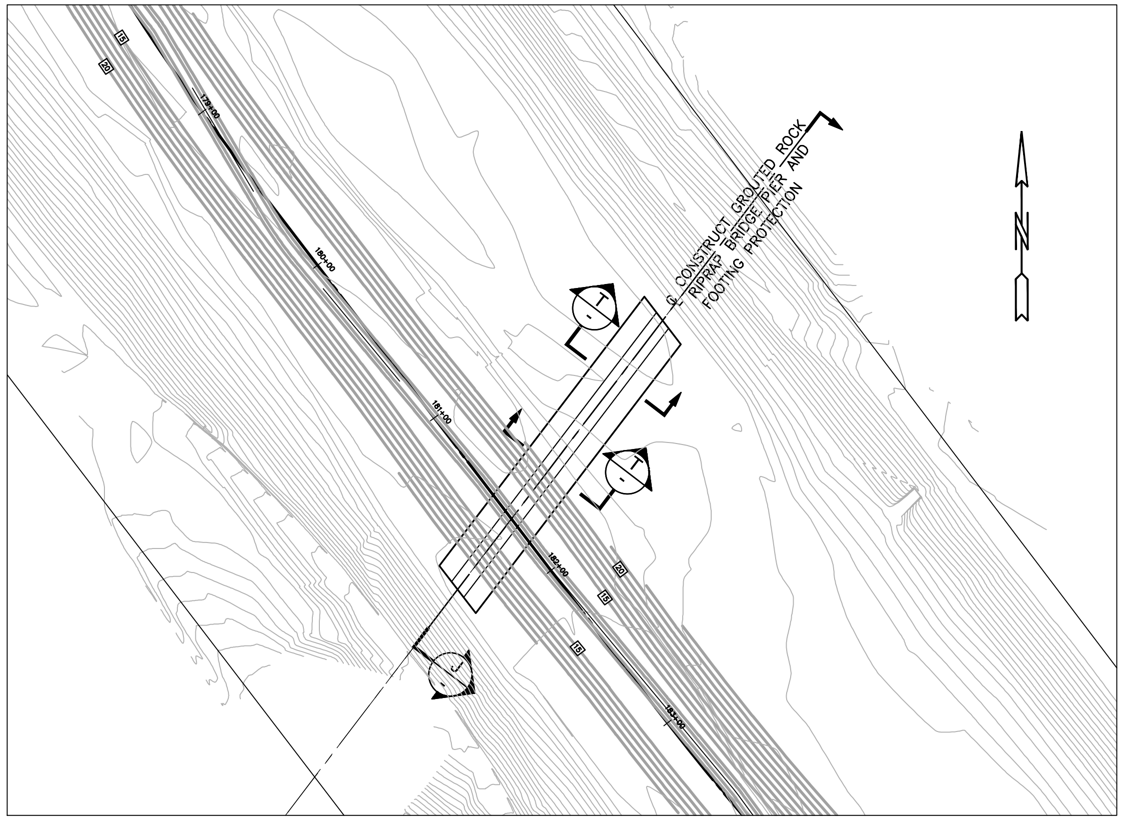
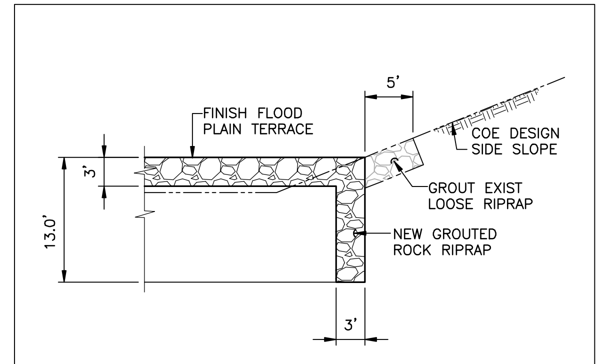
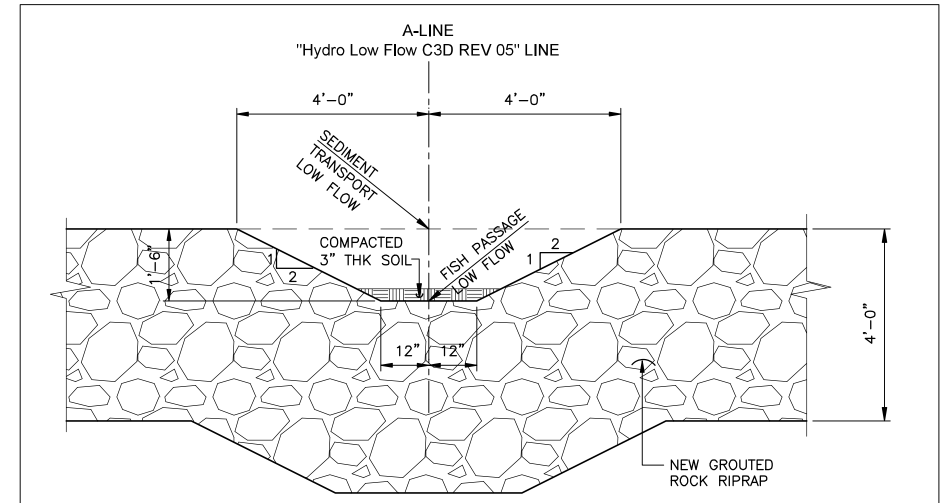


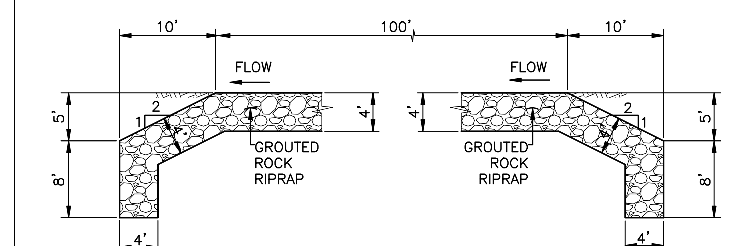

## PLAN
DECOTO BRIDGE CROSSING
SCALE: 1"=50'



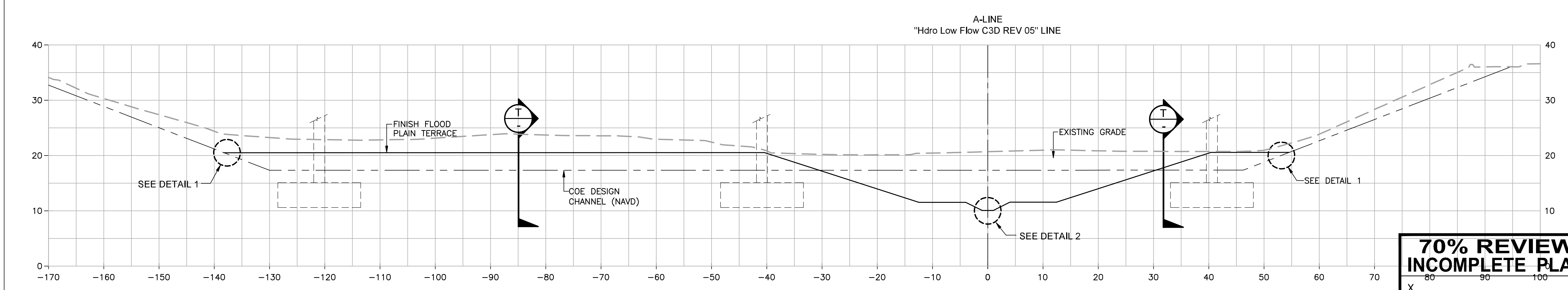

**DETAIL 1**
SCALE 1"=10'




**DETAIL 2**
SCALE 1"=2'




**SECTION T**
SCALE 1"=10'




**SECTION J** (DECOTO BRIDGE CROSSING)
SCALE 1" =10'

**70% REVIEW INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

REGISTERED PROFESSIONAL ENGINEER — ENGINEER NAME No. Structural #### — CIVIL-GEOTECHNICAL — STATE OF CALIFORNIA
APPROVED
APPROVAL DATE:

QUESTA ENGINEERING CORP.
Civil Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
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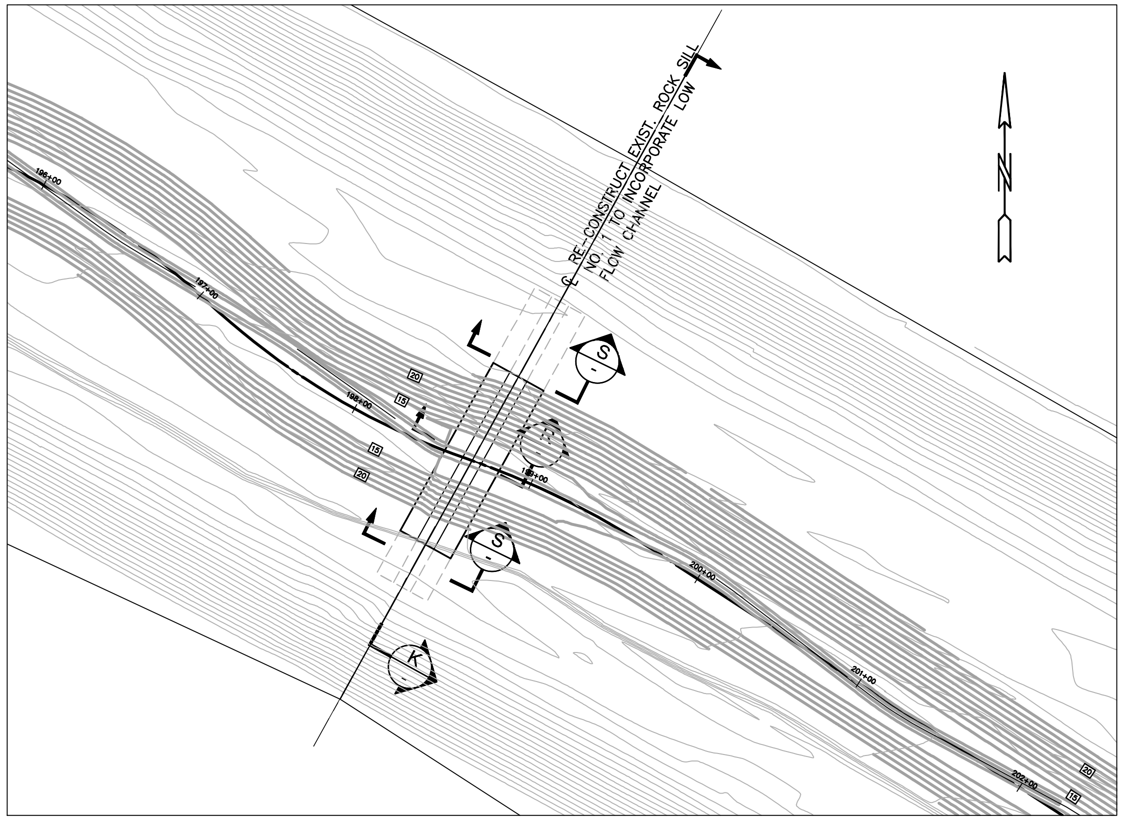
DRAWN: KT
CHECKED: ST
DESIGNED: ST
APPROVED: ST

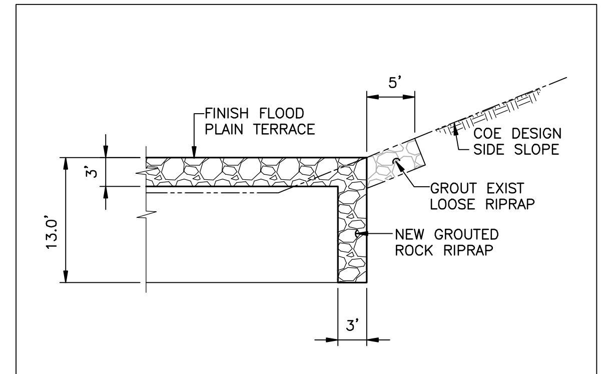
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY
REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
**DECOTO BRIDGE CROSSING PLAN, SECTIONS & DETAILS**

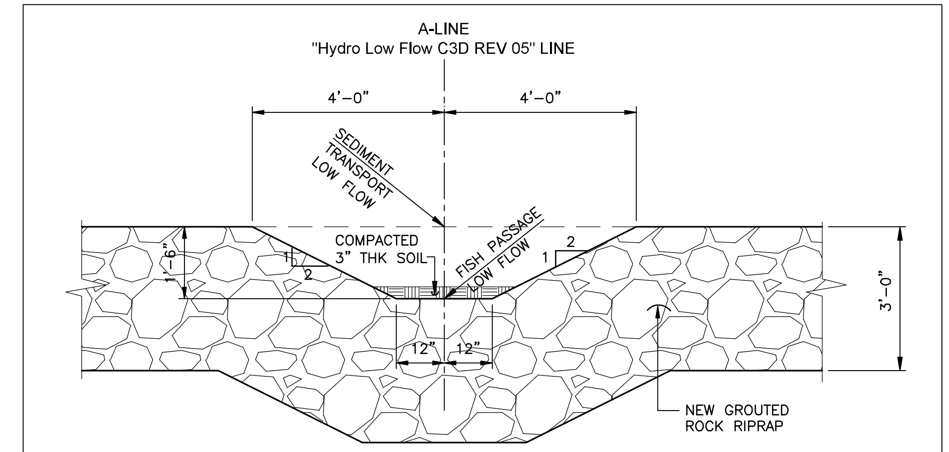
DATE | SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 40 OF 54
FILE NO. ----



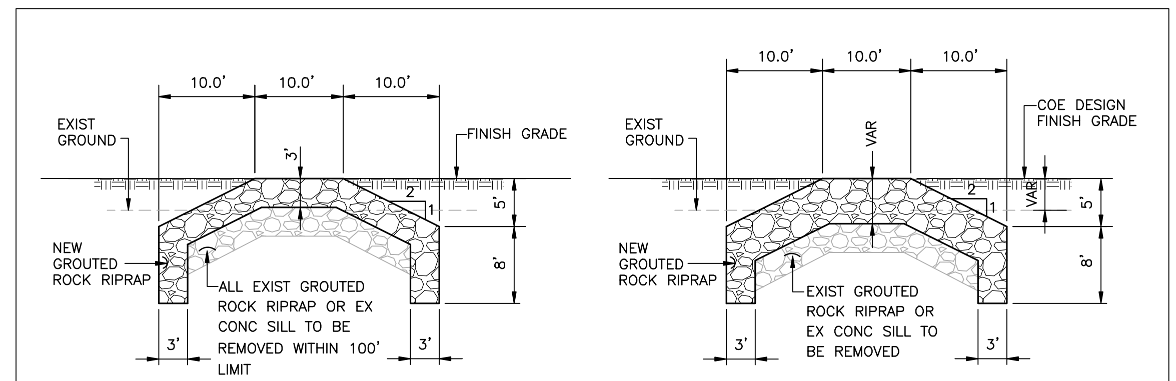

## PLAN
EXISTING ROCK SILL NO 1
SCALE: 1"=50'




DETAIL 1
SCALE 1"=10'

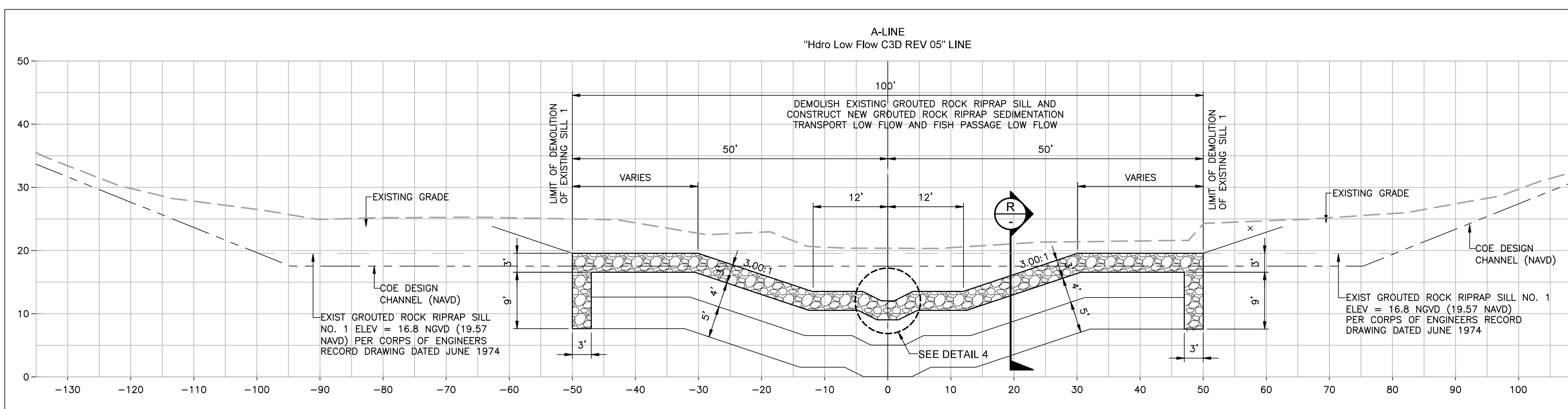



DETAIL 4
SCALE 1"=2'




SECTION R
SCALE 1"=10'
(WITHIN 100 FT DEMOLITION LIMITS)

SECTION S
SCALE 1"=10'




SECTION K
SCALE 1" =10'
(EXISTING GROUTED ROCK RIPRAP - SILL NO 1)
A-LINE STA 198+67.01

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY | DATE

DEPARTMENT

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

\\aelianus\project2\2021\2100035_alameda_creek_plan_set\CAD\Sheets\SHT 09 Typical Channel all.dwg 11-08-21 11:43:23 AM ktang

QUESTA ENGINEERING CORP.
Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com

REGISTERED PROFESSIONAL ENGINEER — ENGINEER NAME — No. Structural #### — CIVIL-GEOTECHNICAL — STATE OF CALIFORNIA

APPROVED | APPROVAL DATE:

DRAWN: KT | CHECKED: ST | DESIGNED: ST | APPROVED: ST

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

# ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
## ROCK SILL MODIFICATION - SILL NO.1

DATE | SCALE

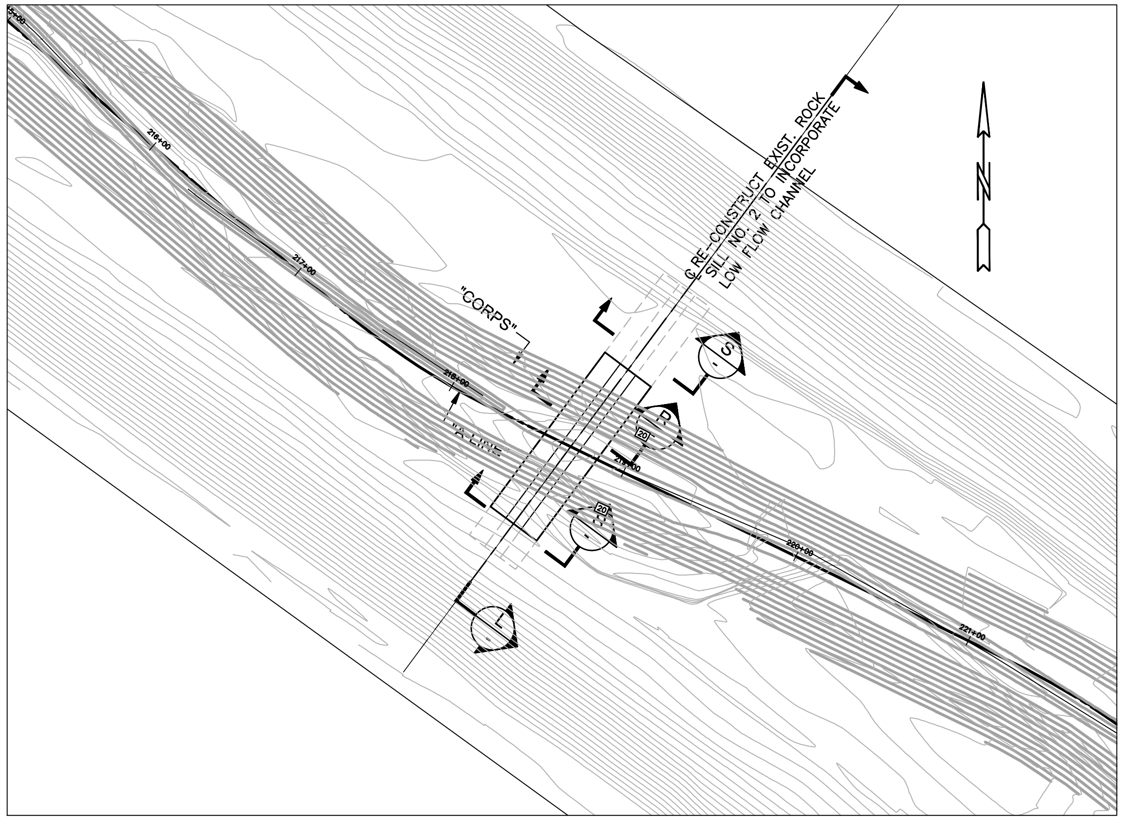
WORK ORDER NO. 2100035

SPECIFICATION NO. ----

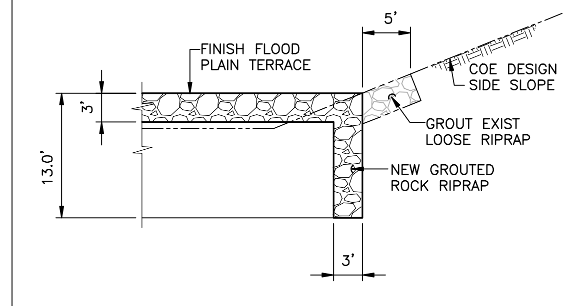
SHEET NO. 41 OF 54

FILE NO. ----

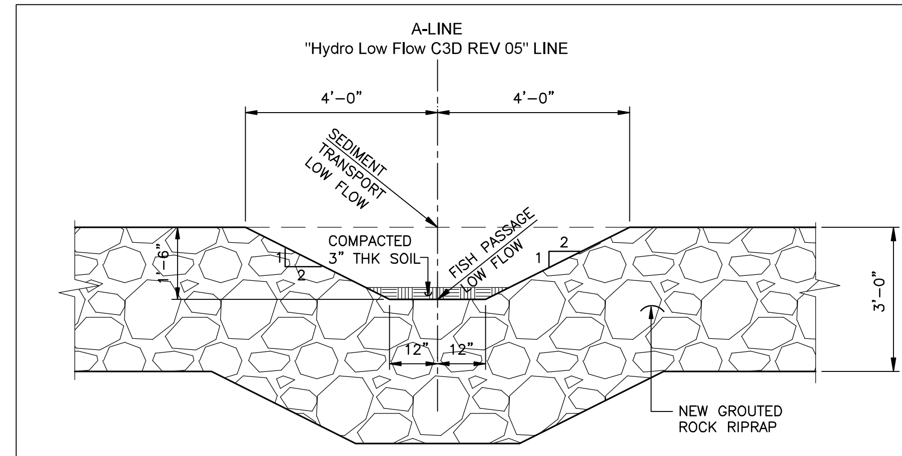
FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3



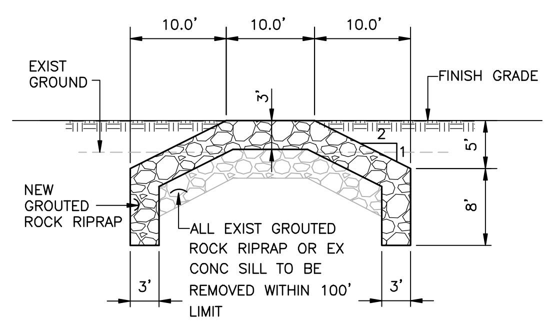

## PLAN
EXISTING ROCK SILL NO 2
SCALE: 1"=50'



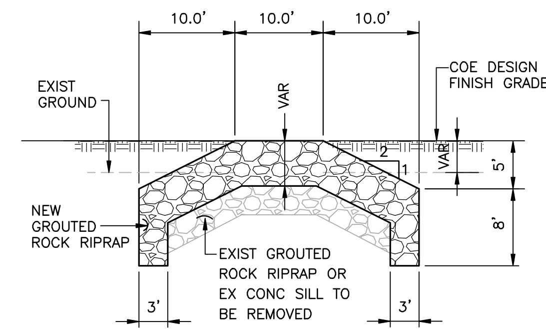

DETAIL 1 -
SCALE 1"=10'



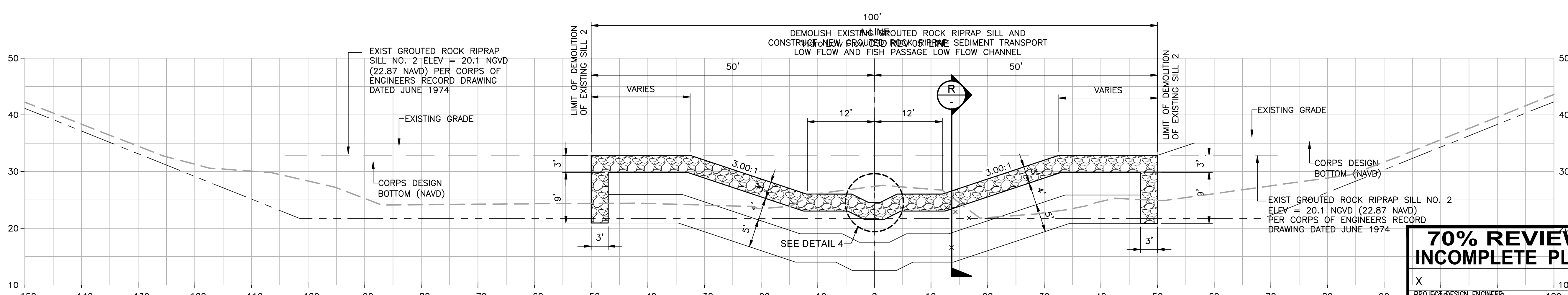

DETAIL 4 -
SCALE 1"=2'




SECTION R -
SCALE 1"=10'
(WITHIN 100 FT DEMOLITION LIMITS)




SECTION S -
SCALE 1"=10'




SECTION L -
SCALE 1" =10'
(EXISTING GROUTED ROCK RIPRAP - SILL NO 2)
A-LINE STA 218+69.58

**70% REVIEW INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

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Civil Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

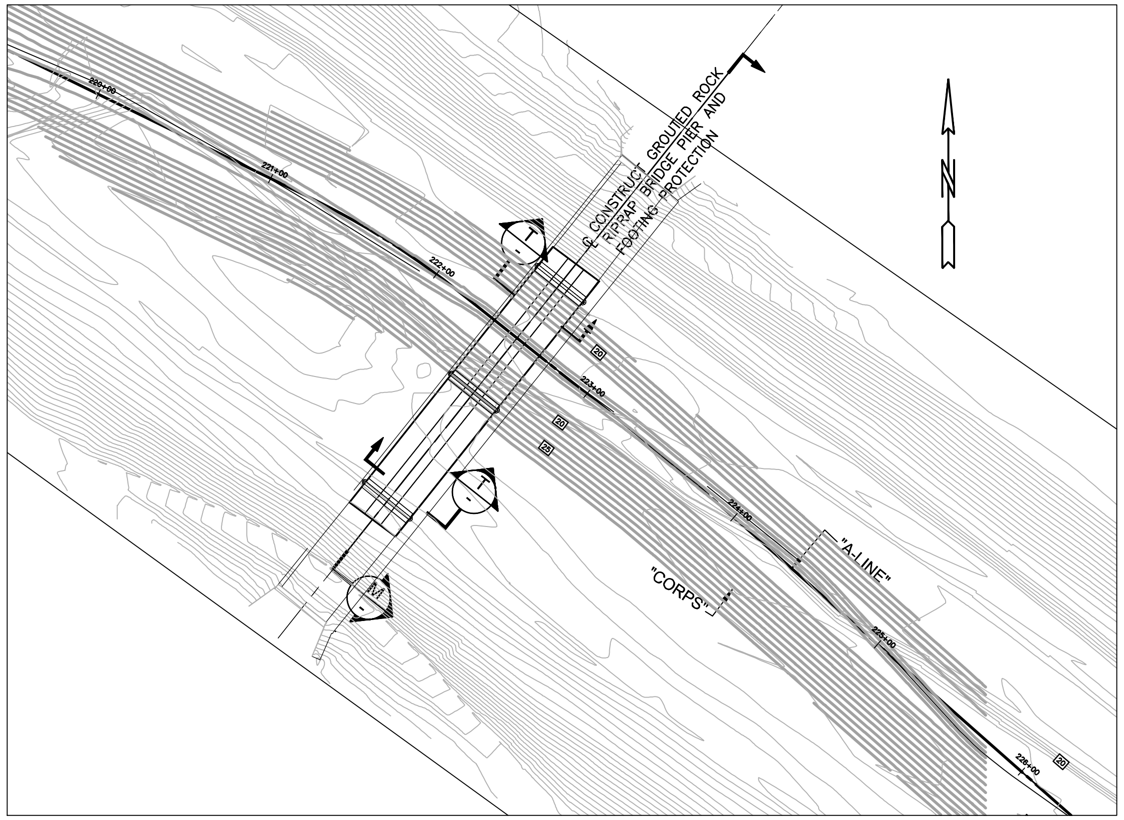
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
ROCK SILL MODIFICATION - SILL NO.2

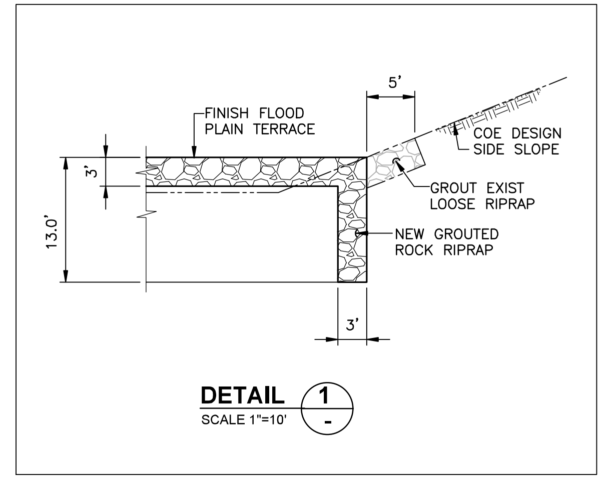
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 42 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3

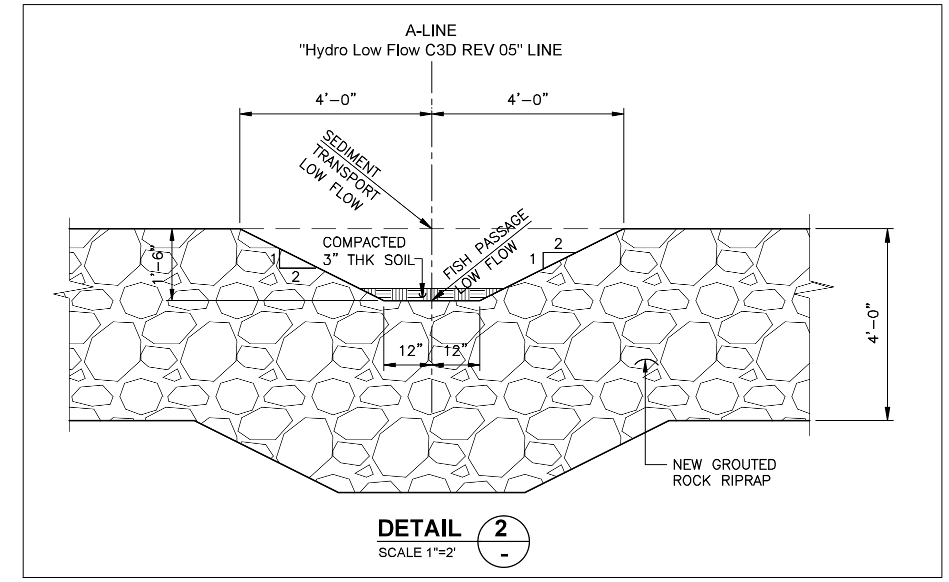
\\aelianus\project2\2021\2100035_alameda_creek_plan_set\CAD\Sheets\SHT 09 Typical Channel all.dwg 11-08-21 11:43:56 AM ktang



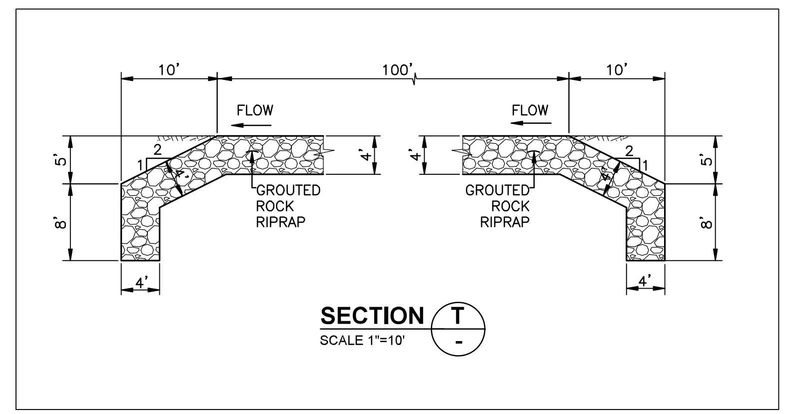

**PLAN**
SHERWOOD BRIDGE CROSSING
SCALE: 1"=50'



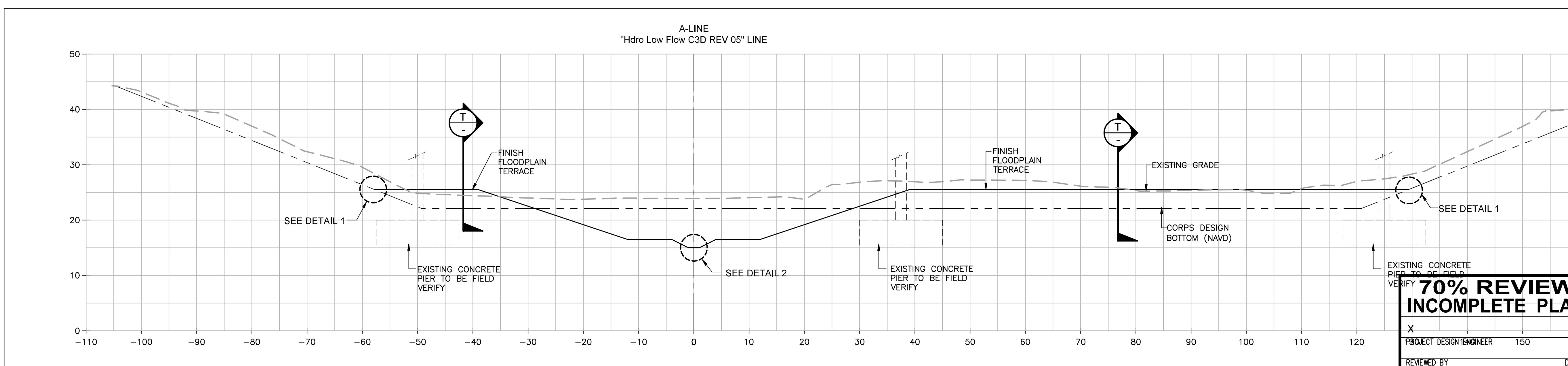

**DETAIL 1**
SCALE 1"=10'




**DETAIL 2**
SCALE 1"=2'




**SECTION T**
SCALE 1"=10'




**SECTION M** (ISHERWOOD WAY BRIDGE CROSSING)
SCALE 1" =10'
A-LINE STA 222+53.48

**70% REVIEW INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

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P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

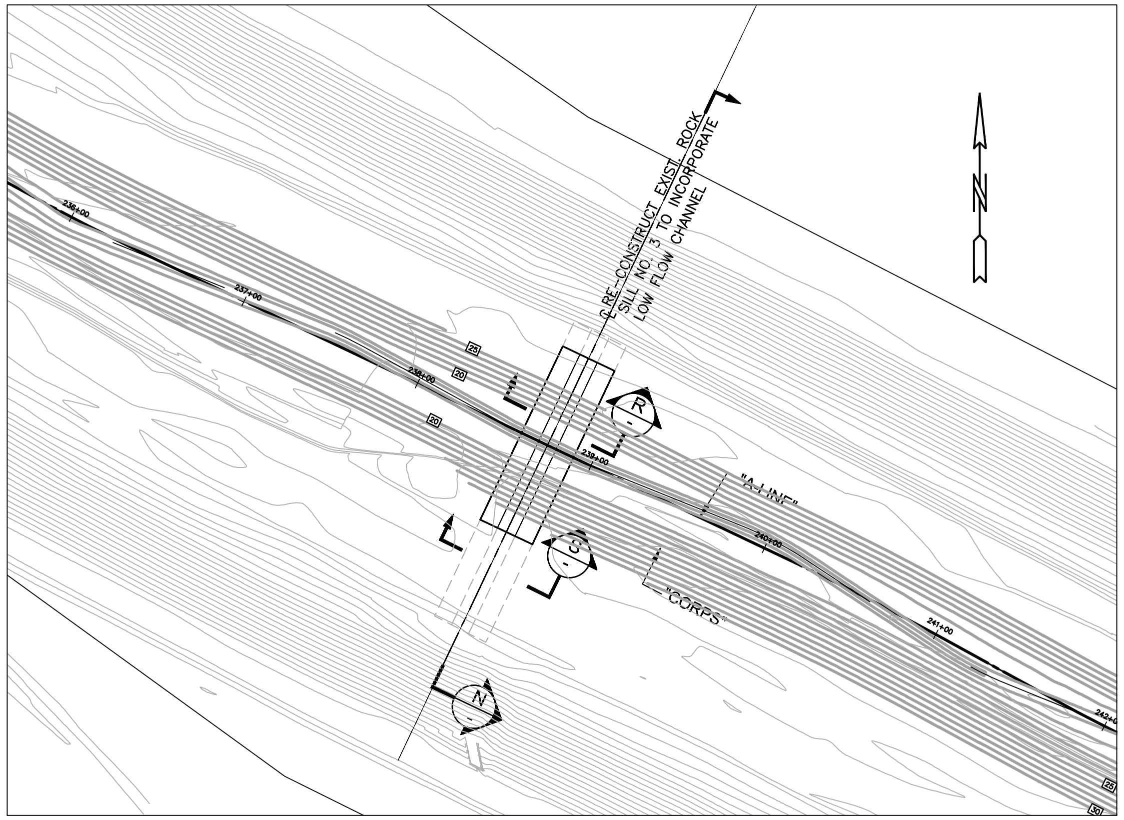
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
ISHERWOOD BRIDGE PLAN, SECTIONS & DETAILS

REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

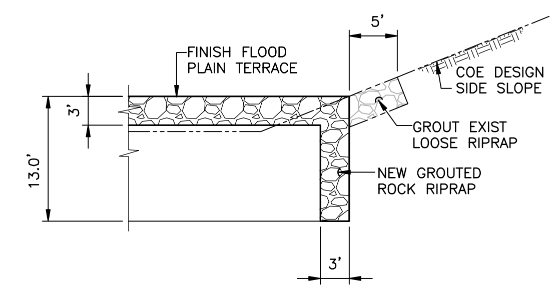
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 43 OF 54
FILE NO. ----

| REVIEWED BY: | DATE: | | REVIEWED BY: | DATE: |
|---|---|---|---|---|
| CONSTRUCTION | | SURVEY | | |
| MAINTENANCE | | TRAFFIC | | |
| REAL ESTATE | | ENVIRONMENTAL | | |



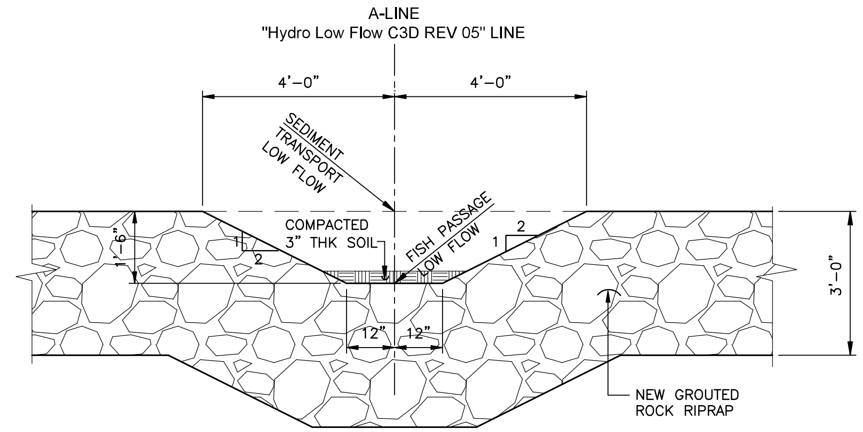

## PLAN - EXISTING ROCK SILL NO 3

SCALE: 1"=50'



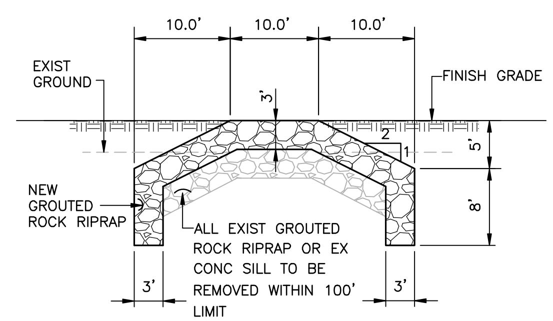

## DETAIL 1

SCALE 1"=10'




## DETAIL 4

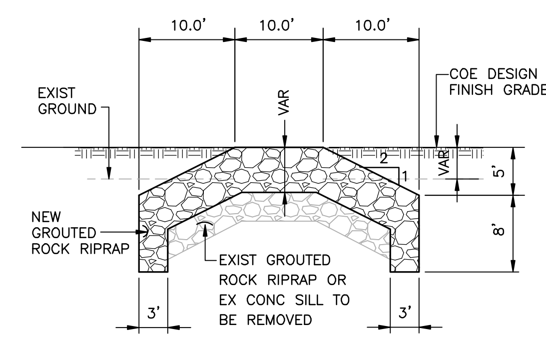
SCALE 1"=2'




## SECTION R

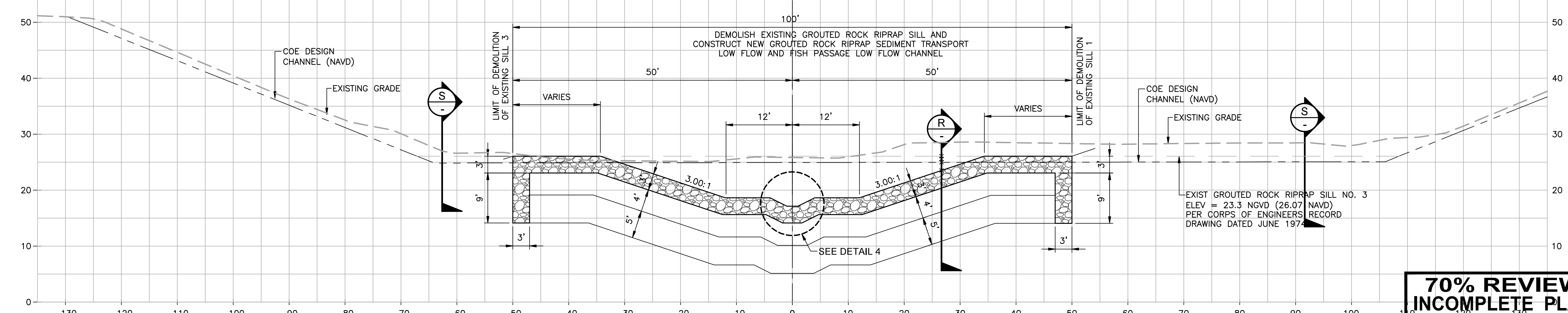
SCALE 1"=10'

(WITHIN 100 FT DEMOLITION LIMITS)




## SECTION S

SCALE 1"=10'




## SECTION N

SCALE 1" =10'

(EXISTING GROUTED ROCK RIPRAP - SILL NO 3)

A-LINE STA 238+74.94

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY DATE

DEPARTMENT

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

0 1 2 3

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QUESTA ENGINEERING CORP.
Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com

DRAWN: KT | CHECKED: ST | DESIGNED: ST | APPROVED: ST

REGISTERED PROFESSIONAL ENGINEER NAME No. Structural #### CIVIL GEOTECHNICAL STATE OF CALIFORNIA

APPROVED | APPROVAL DATE:

COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY

REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
ROCK SILL MODIFICATION - SILL NO.3

DATE | SCALE

WORK ORDER NO. 2100035

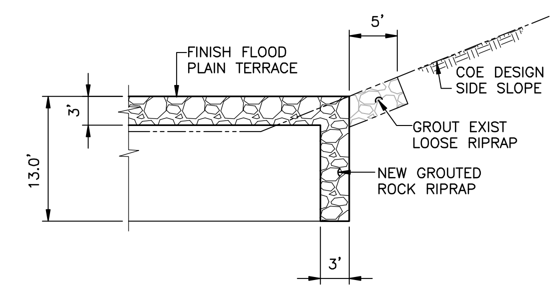
SPECIFICATION NO. ----

SHEET NO. 44 OF 54

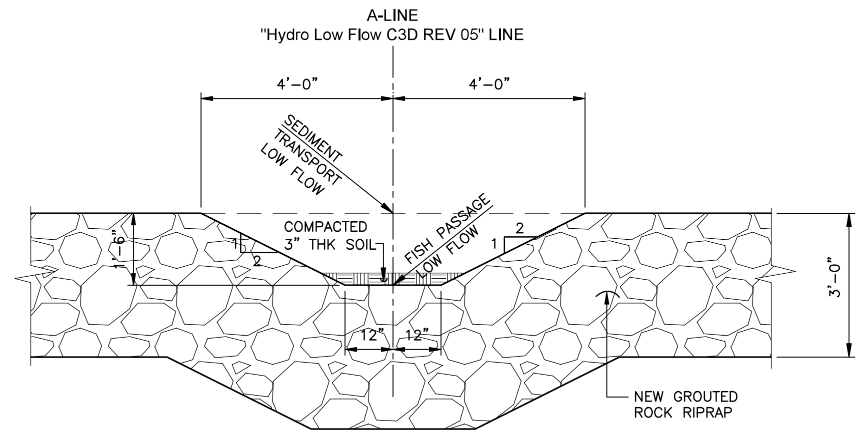
FILE NO. ----

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

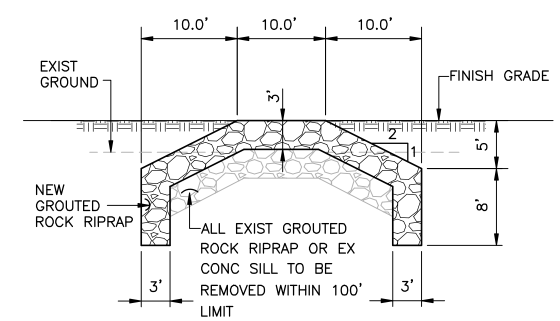

## PLAN
EXISTING ROCK SILL NO 4
SCALE: 1"=50'



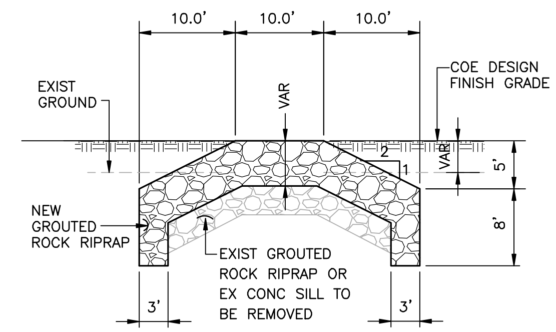

**DETAIL 1/-**
SCALE 1"=10'



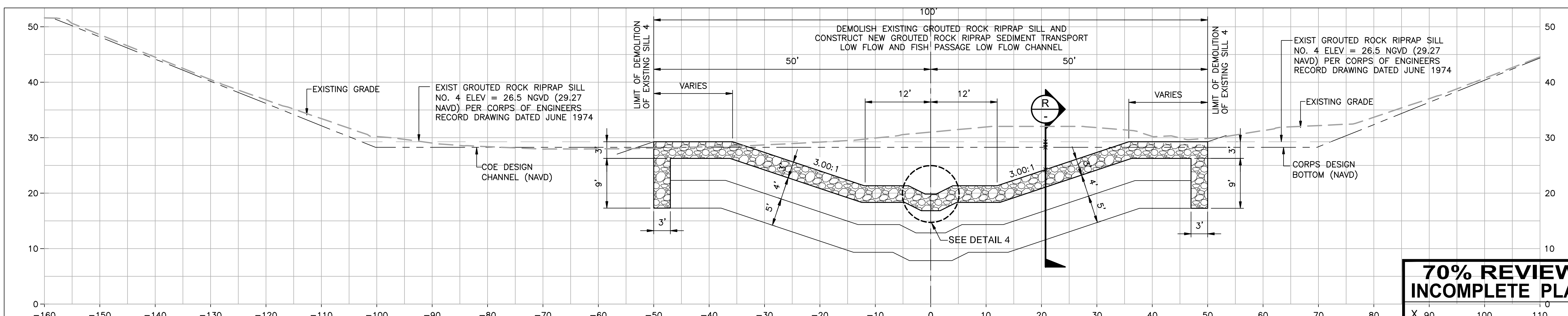

**DETAIL 4/-**
SCALE 1"=2'




**SECTION R/-**
SCALE 1"=10'
(WITHIN 100 FT DEMOLITION LIMITS)




**SECTION S/-**
SCALE 1"=10'




**SECTION 0/-** (EXISTING GROUTED ROCK RIPRAP - SILL NO 4)
SCALE 1" =10'
A-LINE STA 258+80.23

**70% REVIEW INCOMPLETE PLAN**

X 90
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

QUESTA ENGINEERING CORP.
Civil Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com

REGISTERED PROFESSIONAL ENGINEER
ENGINEER NAME
No. Structural ####
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

APPROVED / APPROVAL DATE:
DRAWN: KT
CHECKED: ST
DESIGNED: ST
APPROVED: ST

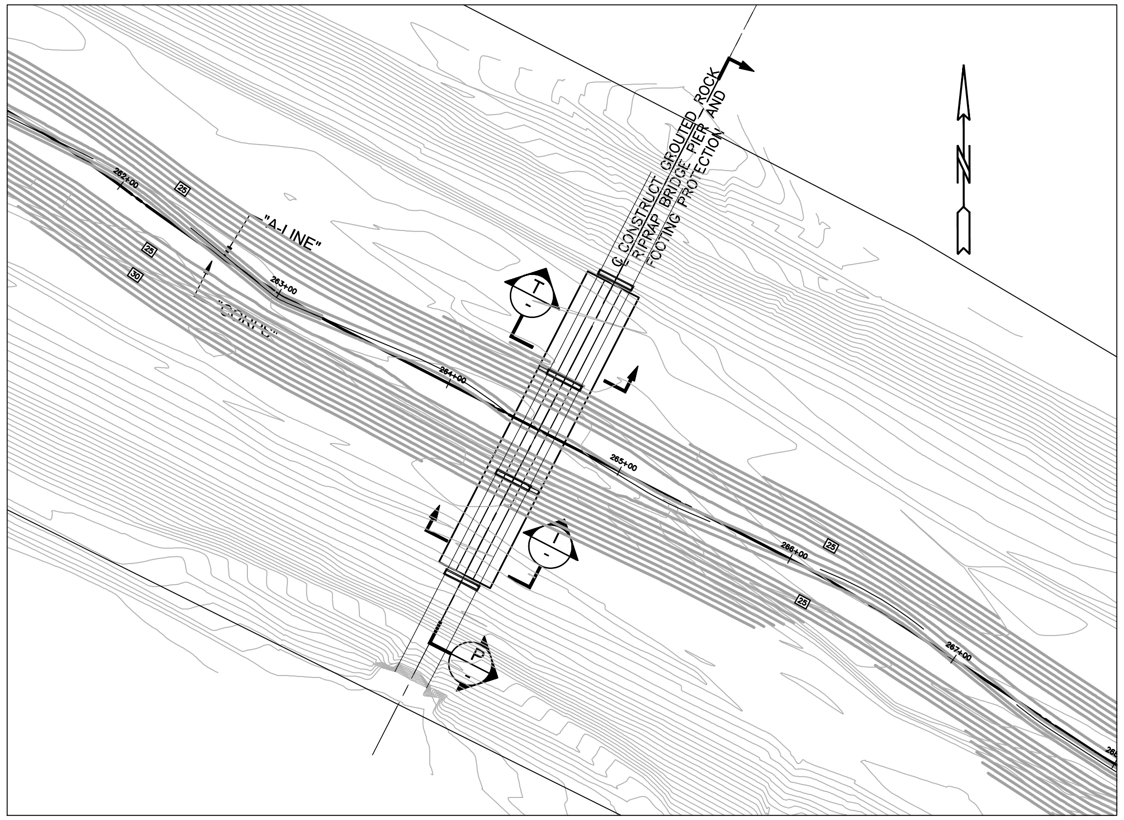
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY
REVIEWED: PROJECT ENGINEER NAME
REVIEWED: MOSES TSANG
APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
ROCK SILL MODIFICATION - SILL NO.4

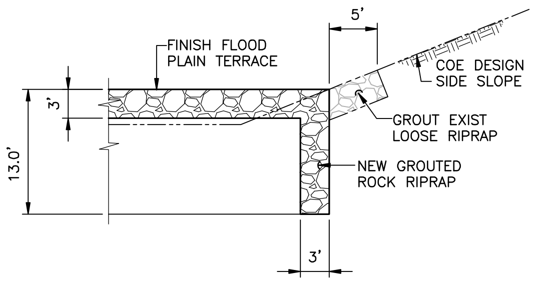
DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 45 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3

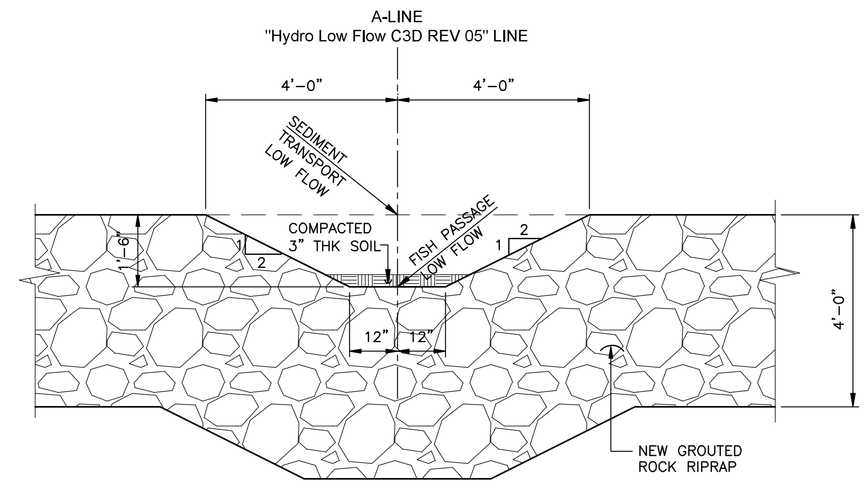
\\aelianus\project2\2021\2100035_alameda_creek_plan_set\CAD\Sheets\SHT 09 Typical Channel all.dwg 11-08-21 11:45:26 AM ktang



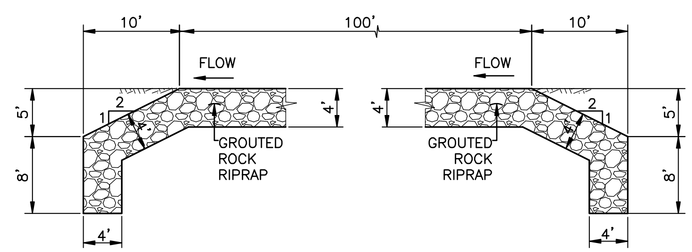

## PLAN
SEQUOIA TERRACE BRIDGE CROSSING
SCALE: 1"=50'



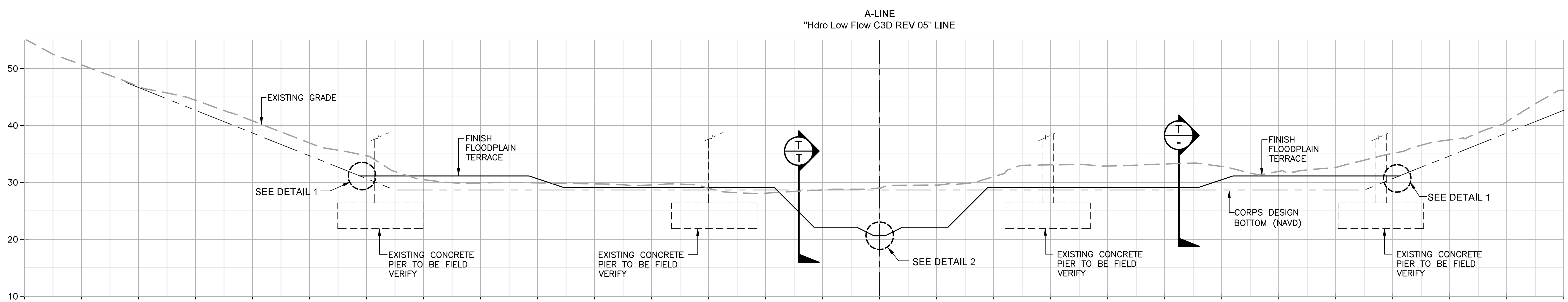

## DETAIL 1
SCALE 1"=10'




## DETAIL 2
SCALE 1"=2'




## SECTION T
SCALE 1"=10'




## SECTION P
SCALE 1" =10'

(SEQUOIA TERRACE BRIDGE CROSSING)
A-LINE STA 264+52.93

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

\\aelianus\project2\2021\2100035_alameda_creek_plan_set\CAD\Sheets\SHT 09 Typical Channel all.dwg 11-08-21 11:45:56 AM ktang

**70% REVIEW INCOMPLETE PLAN**
X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3

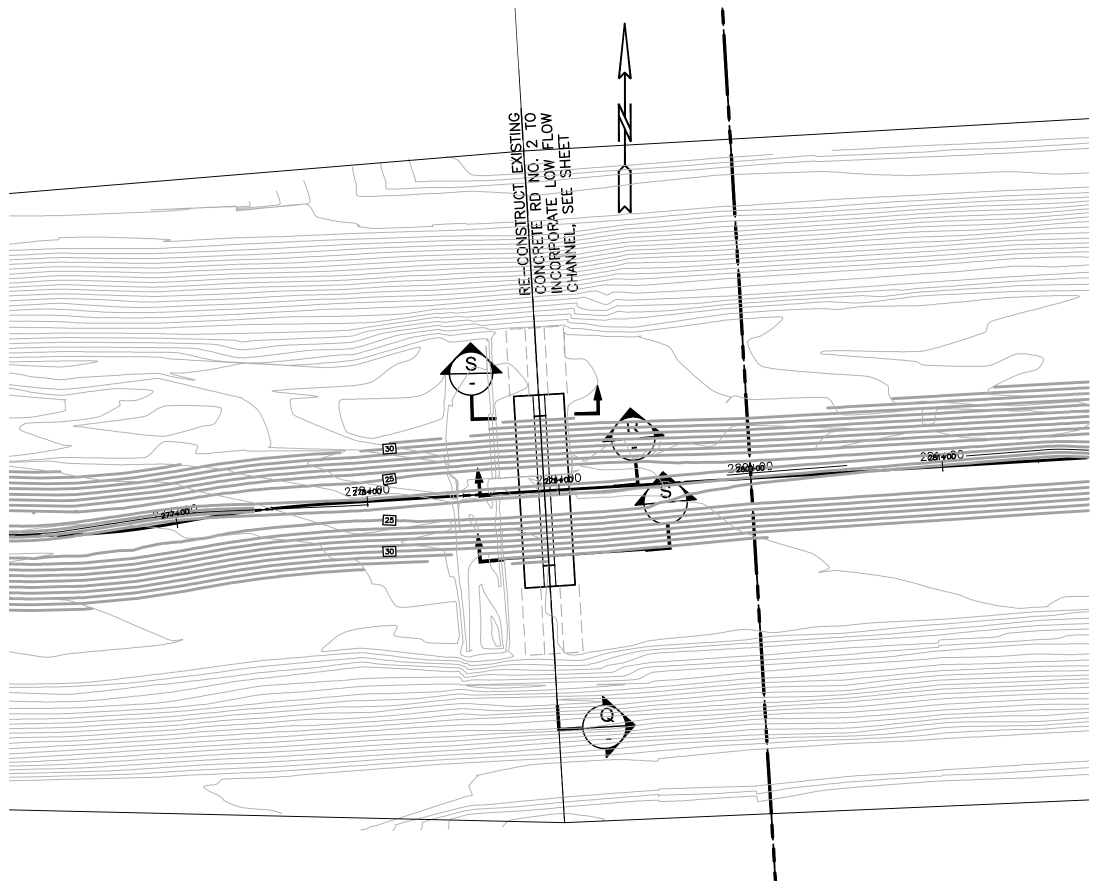
APPROVED
REGISTERED PROFESSIONAL ENGINEER
ENGINEER NAME
No. ####
Structural
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA
APPROVAL DATE:

QUESTA ENGINEERING CORP.
Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com
DRAWN: KT
CHECKED: ST
DESIGNED: ST
APPROVED: ST

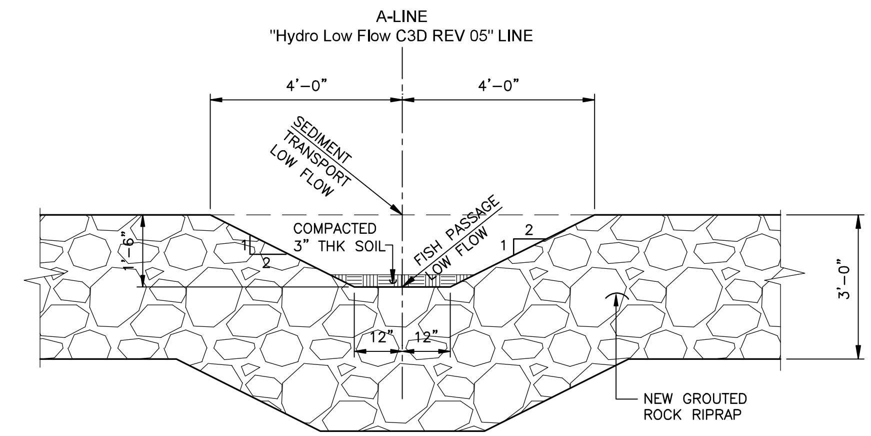
COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY
REVIEWED:
PROJECT ENGINEER NAME
REVIEWED:
MOSES TSANG
APPROVAL RECOMMENDED:
HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
**SEQUOIA BRIDGE PLAN, SECTIONS & DETAILS**

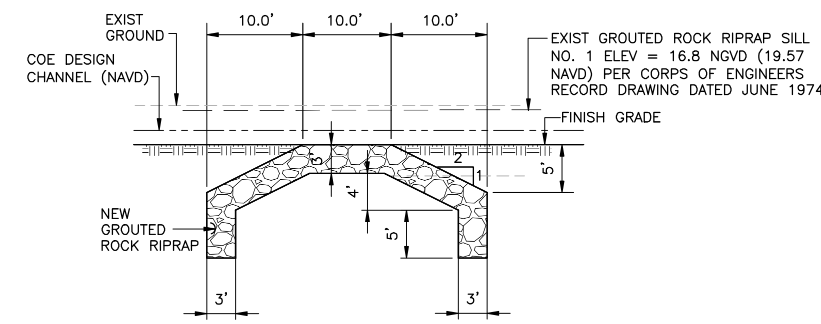
DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 46 OF 54
FILE NO. ----



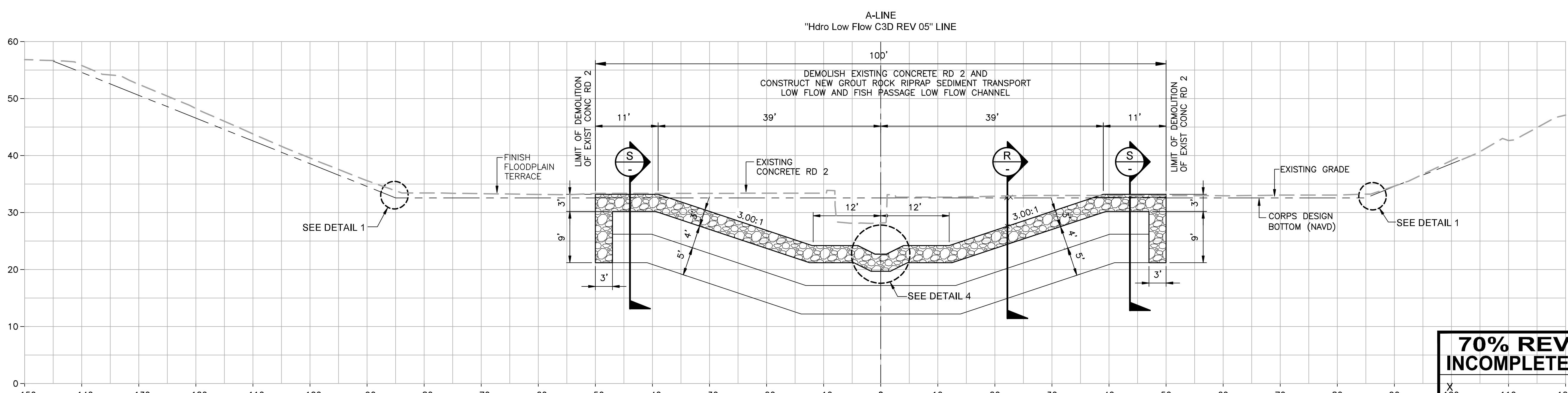

## PLAN
EXISTING GROUTED ROCK - RD NO 2
SCALE:1"=50'




**DETAIL 4**
SCALE 1"=2'




**SECTION R** (SILL NO. 1)
SCALE 1"=10'
(WITHIN 100 FT DEMOLITION LIMITS)




**SECTION Q** (RE-CONSTRUCT EXISTING CONCRETE RD NO. 2)
SCALE: 1"=10'
A-LINE STA 278+92.26

**70% REVIEW INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
|---|---|---|---|---|---|
| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|
| | | | | |

QUESTA ENGINEERING CORP.
Civil, Environmental & Water Resources
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

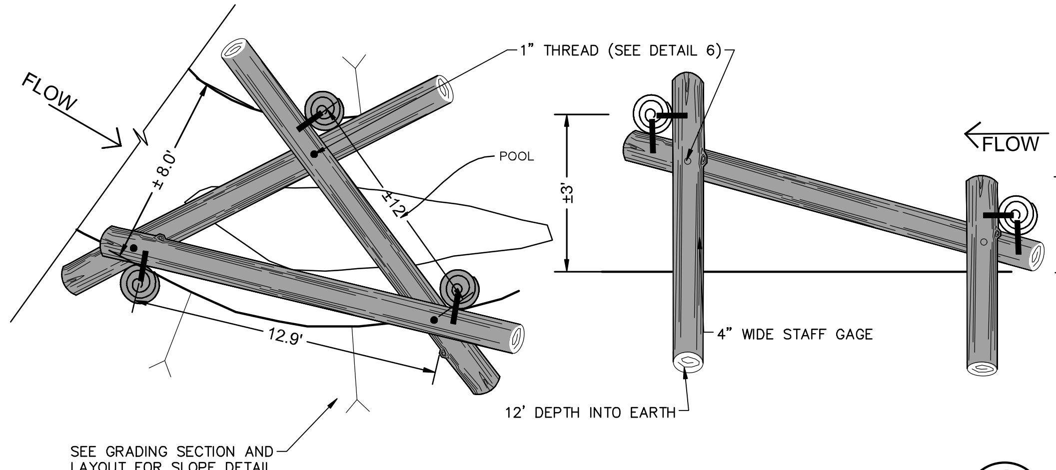
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
CONCRETE RD

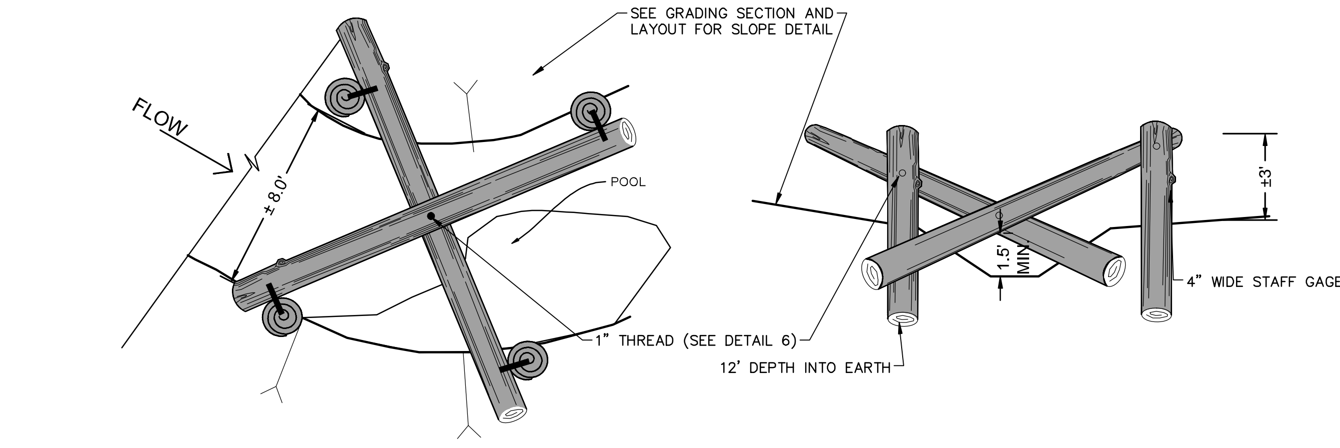
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 47 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3

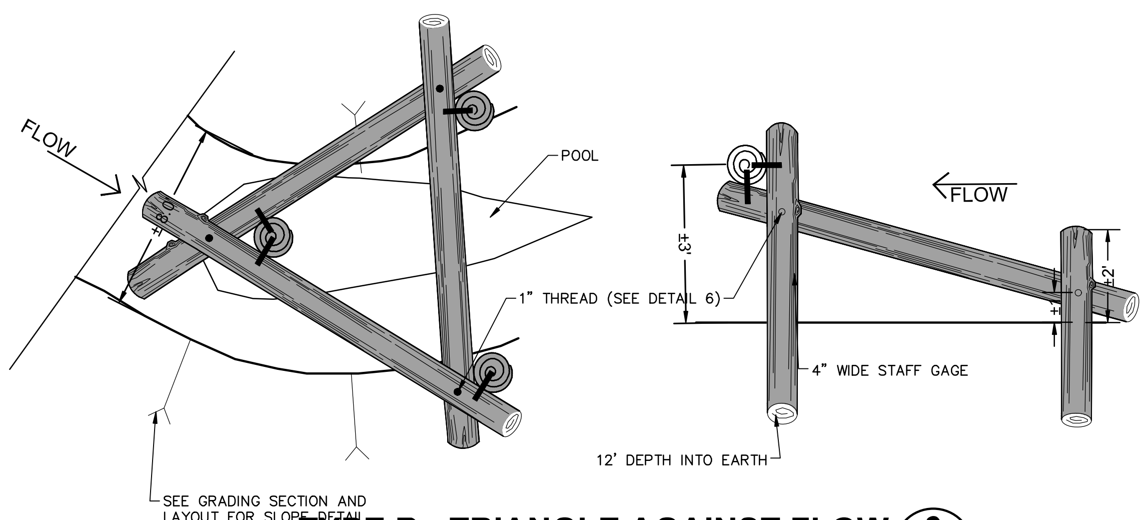
\\aelianus\project2\2021\2100035_alameda_creek_plan_set\CAD\Sheets\SHT 09 Typical Channel all.dwg 11-08-21 11:46:22 AM ktang



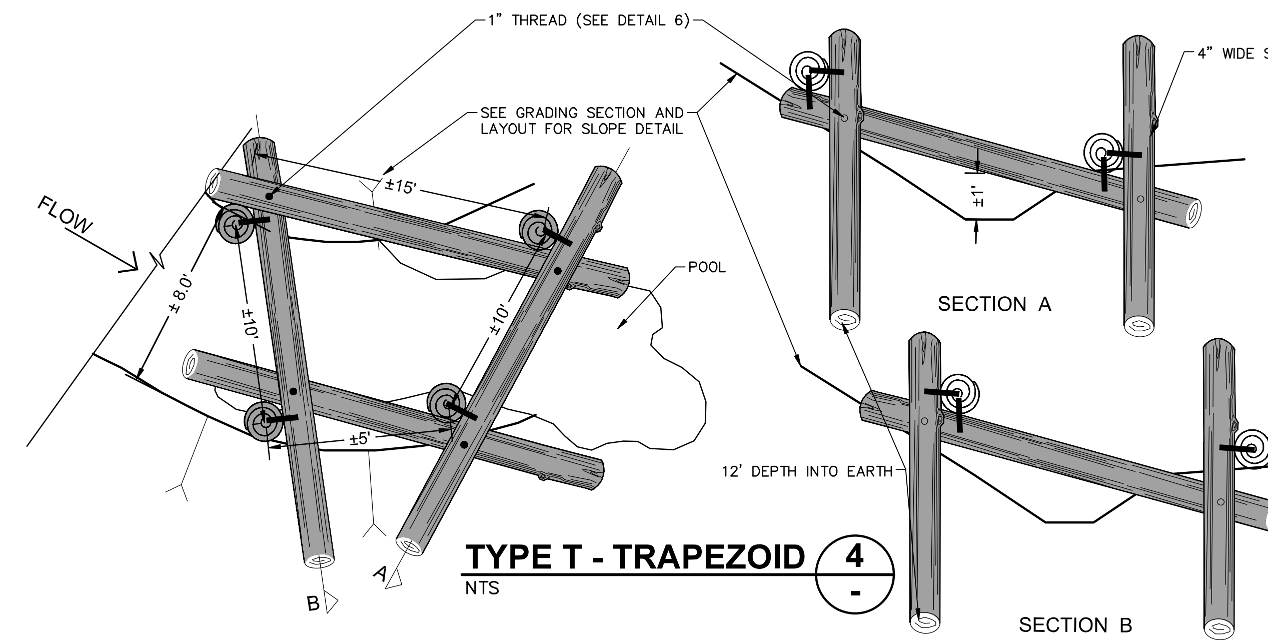

## TYPE A - TRIANGLE PARALLEL TO BANK 1 -
NTS



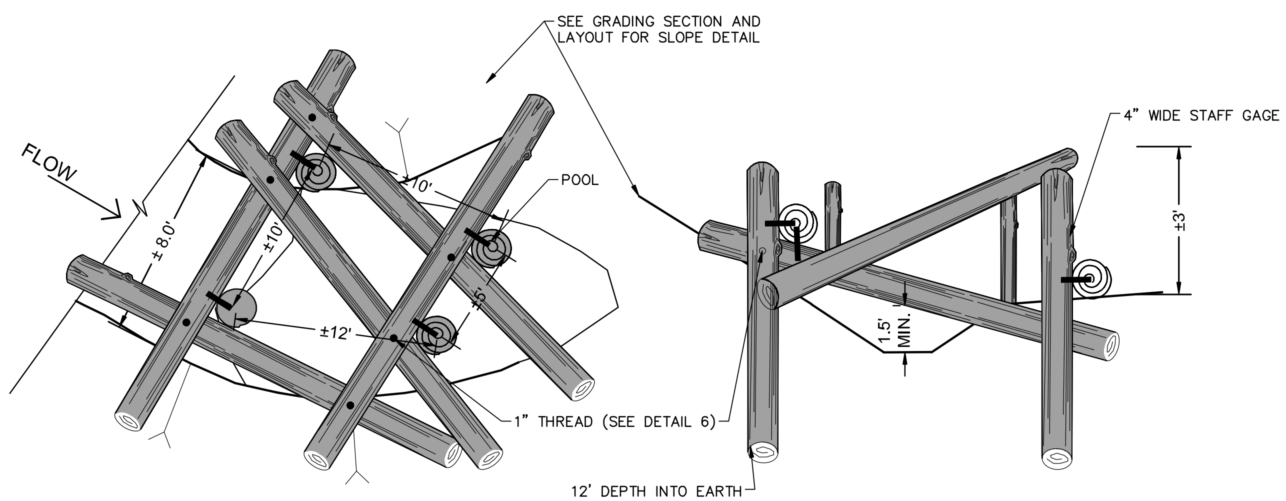

## TYPE X - CROSS 2 -
NTS




## TYPE B - TRIANGLE AGAINST FLOW 3 -
NTS

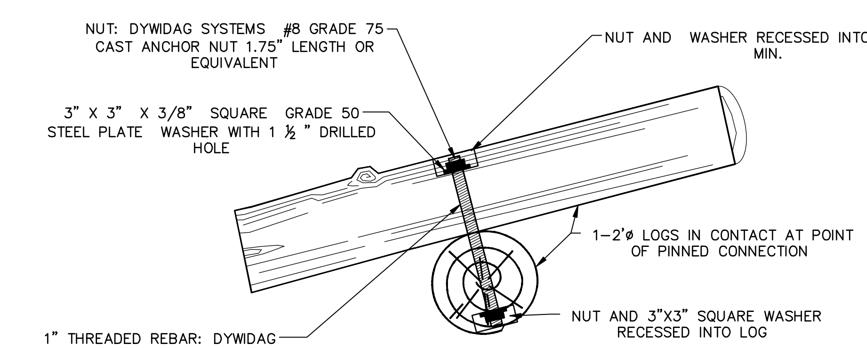



## TYPE T - TRAPEZOID 4 -
NTS




## TYPE LJ - LOG JAM 5 -
NTS

*NUT AND THREAD CORRESPOND TO SYMBOL AND IN DETAIL 1 - 5.




## LOG - LOG ANCHORING 6 -
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| REVIEWED BY: | DATE: |
| CONSTRUCTION | SURVEY |
| MAINTENANCE | TRAFFIC |
| REAL ESTATE | ENVIRONMENTAL |

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**70% REVIEW**
**INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
REVIEWED BY DATE
DEPARTMENT

QUESTA ENGINEERING CORP.
Civil Environmental & Water Resources
(510) 236-6114 FAX (510) 236-2423 questa@questaec.com
P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807

REGISTERED PROFESSIONAL ENGINEER — ENGINEER NAME — No. Structural #### — No. ##### — CIVIL-GEOTECHNICAL — STATE OF CALIFORNIA
APPROVED
APPROVAL DATE:
INSERT APPROPRIATE STAMP

DRAWN: KT
DESIGNED: ST
CHECKED: ST
APPROVED: ST

REVIEWED:
PROJECT ENGINEER NAME
REVIEWED:
MOSES TSANG
APPROVAL RECOMMENDED:
HANK ACKERMAN

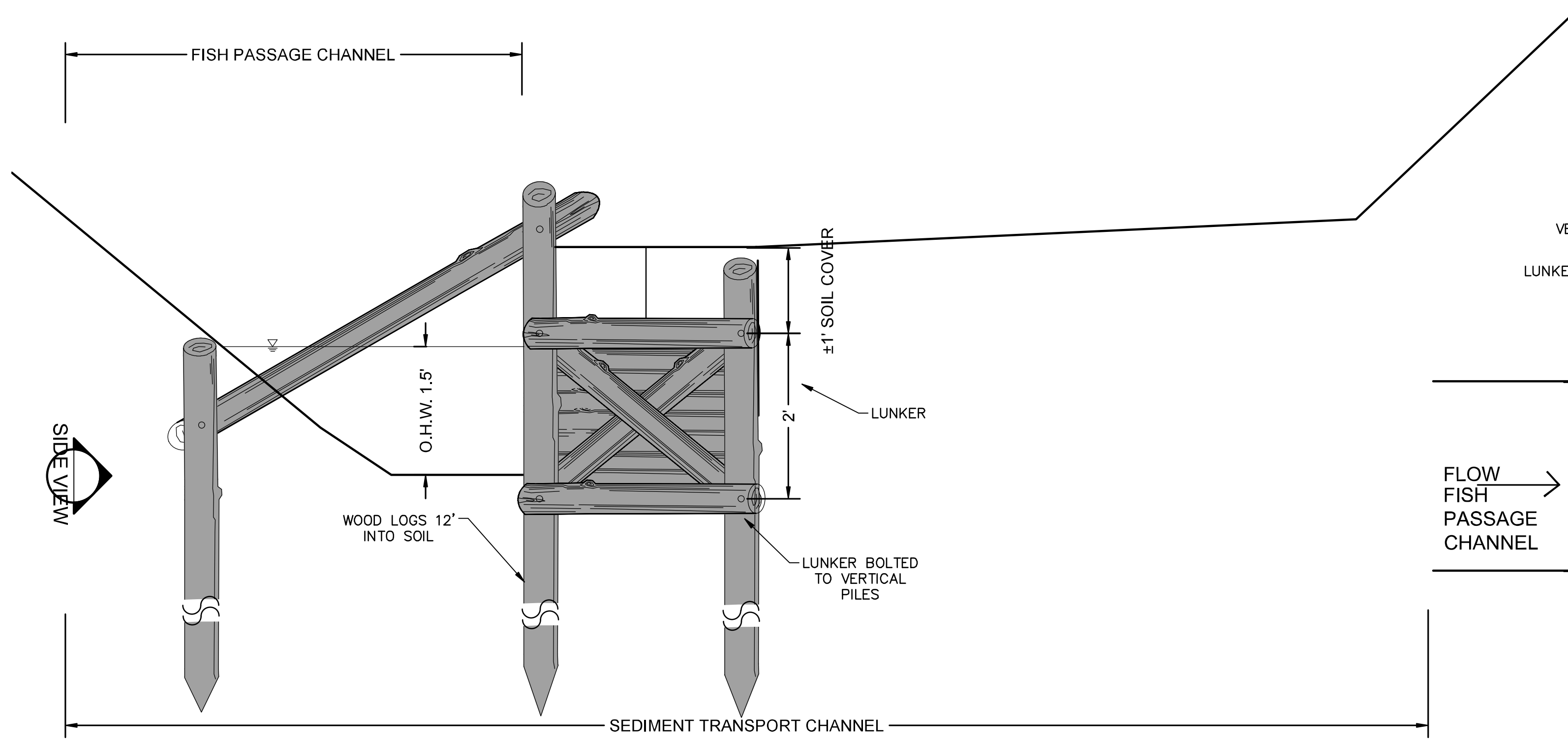
**COUNTY OF ALAMEDA ☆ PUBLIC WORKS AGENCY**

**ALAMEDA CREEK RESTORATION PROJECT**
**CORPS STA 355+11.13 TO 518+50.09**

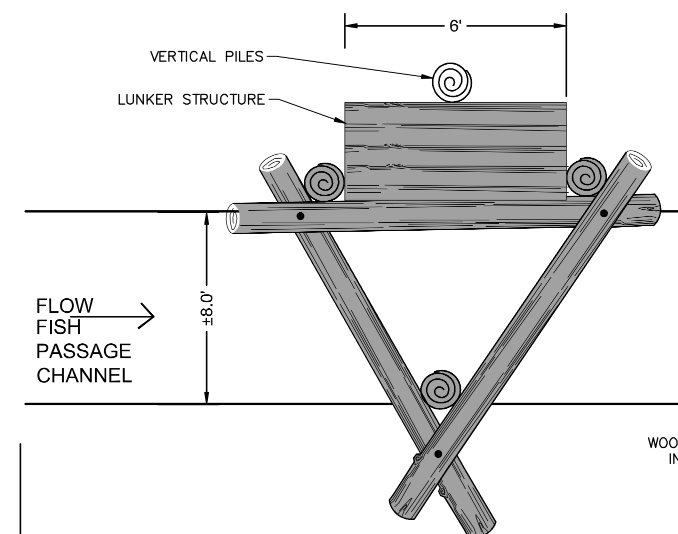
**GRADING DETAILS**

DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 48 OF 54
FILE NO. ----

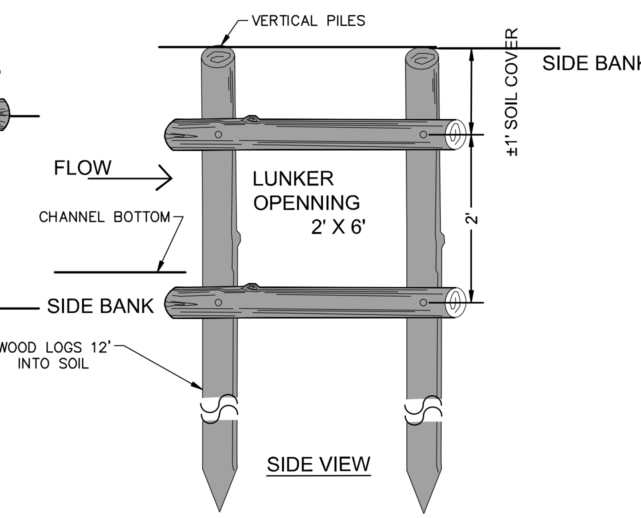
FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3




SECTION VIEW



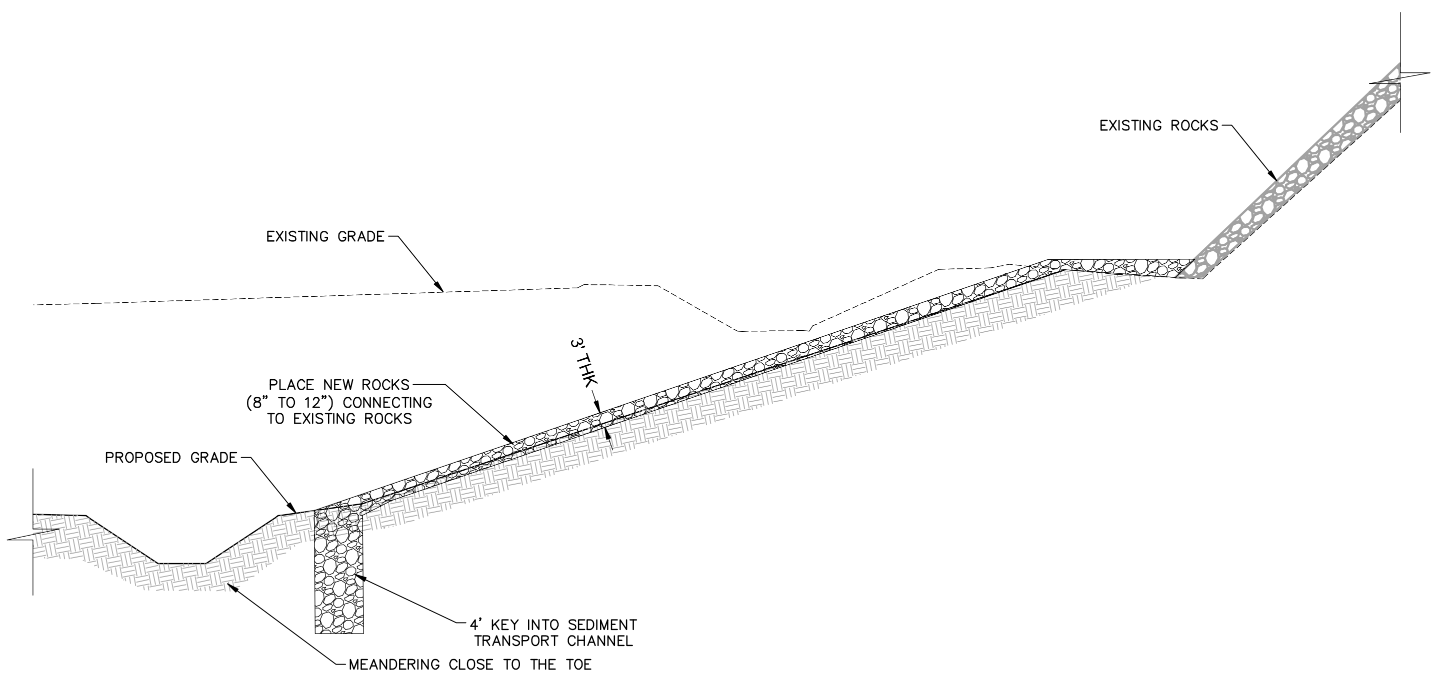

PLAN VIEW




SIDE VIEW

## LUNKER BOX 1 / -

NTS




## RIP RAP CONNECTION TO EXISTING ROCKS 2 / -

NTS

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY DATE

DEPARTMENT

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES

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REVIEWED BY: DATE: CONSTRUCTION MAINTENANCE REAL ESTATE

REVIEWED BY: DATE: SURVEY TRAFFIC ENVIRONMENTAL

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REVISIONS

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DRAWN: KT CHECKED: ST DESIGNED: ST APPROVED: ST

APPROVED: APPROVAL DATE:

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED: PROJECT ENGINEER NAME

REVIEWED: MOSES TSANG

APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT CORPS STA 355+11.13 TO 518+50.09

**CONSTRUCTION DETAILS**

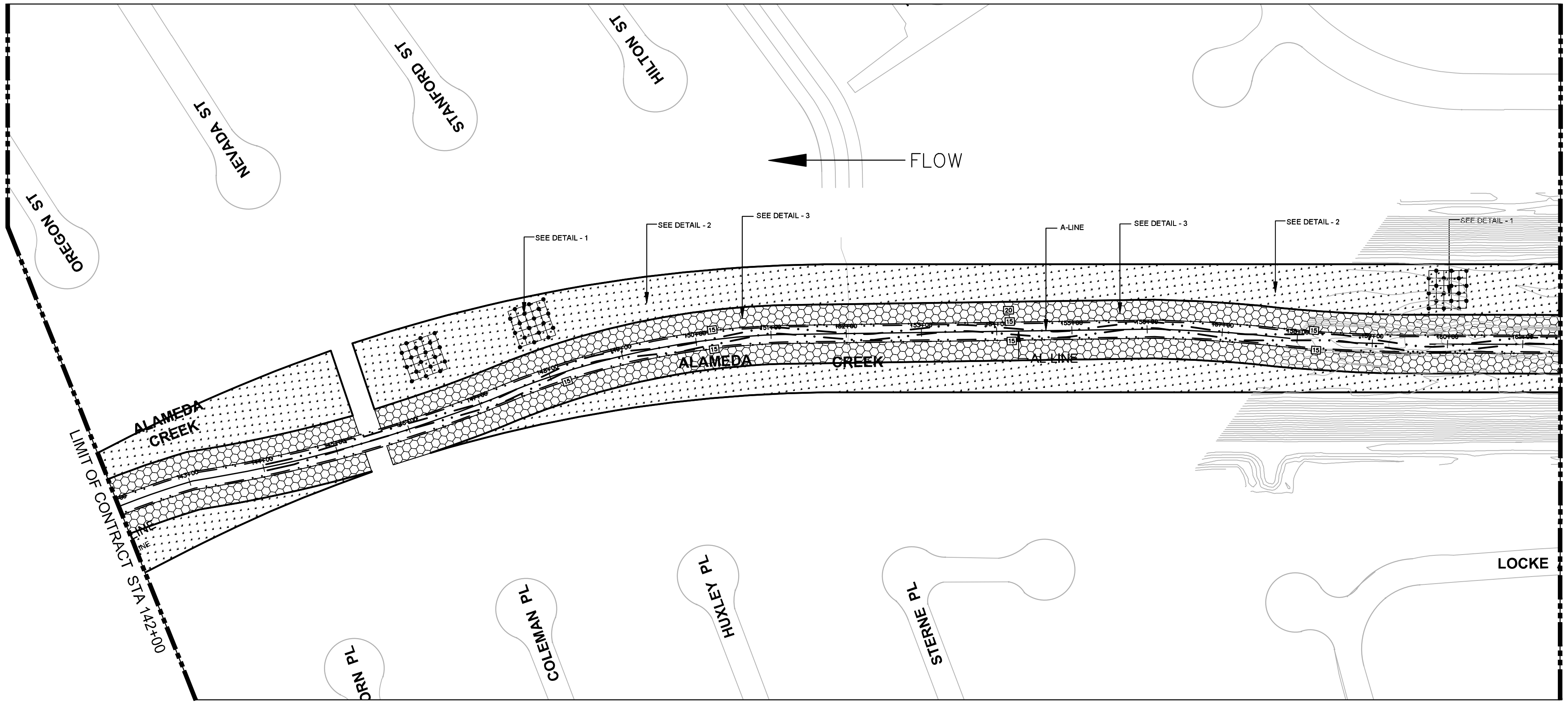
DATE SCALE

WORK ORDER NO. 2100035

SPECIFICATION NO. ----

SHEET NO. 49 OF 54

FILE NO. ----




## PLAN

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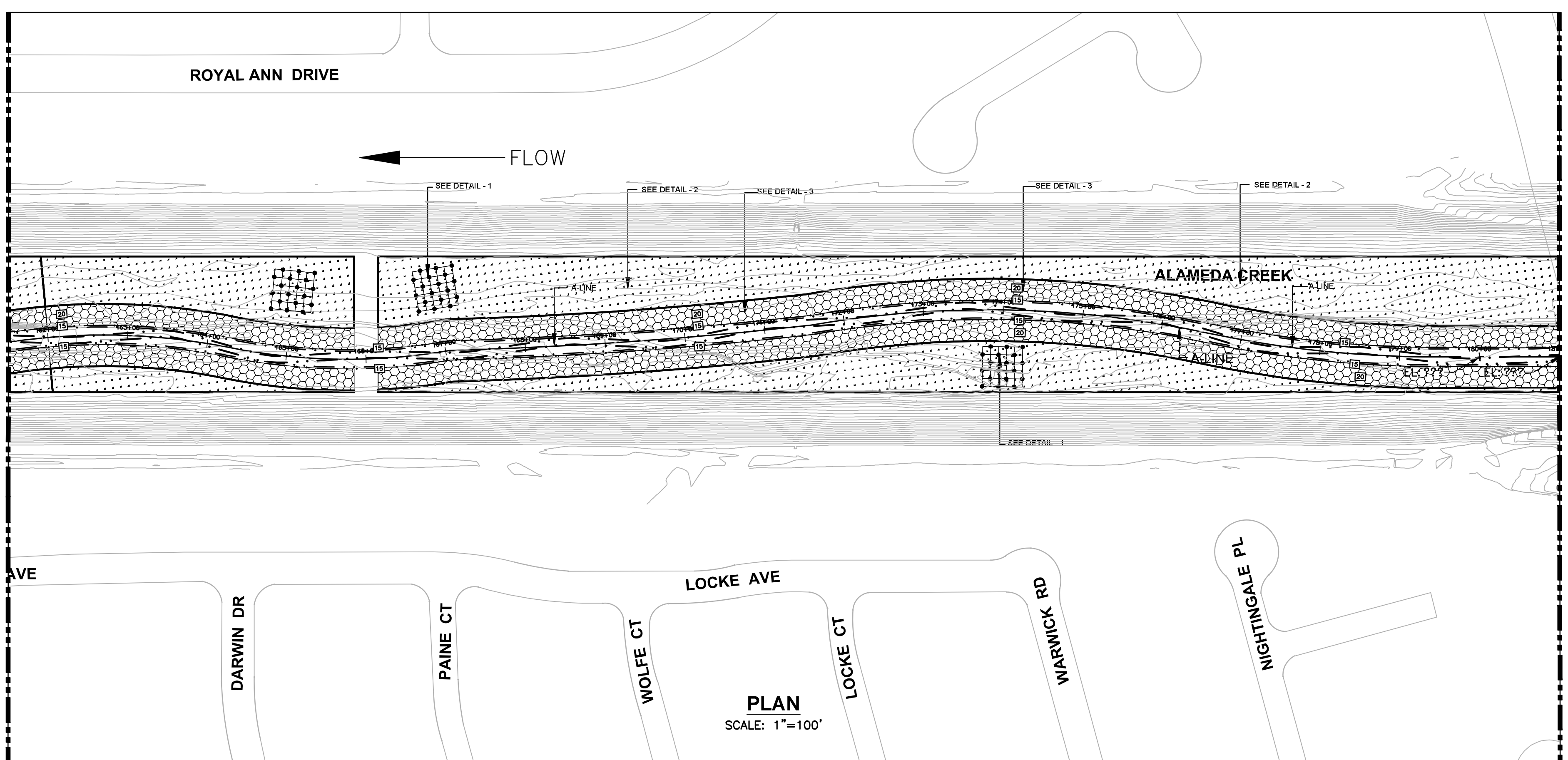


## PLAN

SCALE: 1"=100'

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY DATE

DEPARTMENT

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
|---|---|---|---|---|
| | | | | |

REGISTERED PROFESSIONAL ENGINEER NAME No. Structural #### No. #### CIVIL-GEOTECHNICAL STATE OF CALIFORNIA

APPROVED

APPROVAL DATE:

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ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED: PROJECT ENGINEER NAME

REVIEWED: MOSES TSANG

APPROVAL RECOMMENDED: HANK ACKERMAN

ALAMEDA CREEK RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09

**PLANTING PLAN (STA 142-181)**

DATE | SCALE

WORK ORDER NO. 2100035

SPECIFICATION NO. ----

SHEET NO. 50 OF 54

FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

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PLAN
SCALE: 1"=100'

| CONSTRUCTION | REVIEWED BY: | DATE: | SURVEY | REVIEWED BY: | DATE: |
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| MAINTENANCE | | | TRAFFIC | | |
| REAL ESTATE | | | ENVIRONMENTAL | | |

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REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
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REGISTERED PROFESSIONAL ENGINEER
ENGINEER NAME
No. Structural ####
No. #####
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

APPROVED:
APPROVAL DATE:
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ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED:
PROJECT ENGINEER NAME
REVIEWED:
MOSES TSANG
APPROVAL RECOMMENDED:
HANK ACKERMAN

ALAMEDA CREEK
RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09

PLANTING PLAN (STA 181-220)

70% REVIEW
INCOMPLETE PLAN

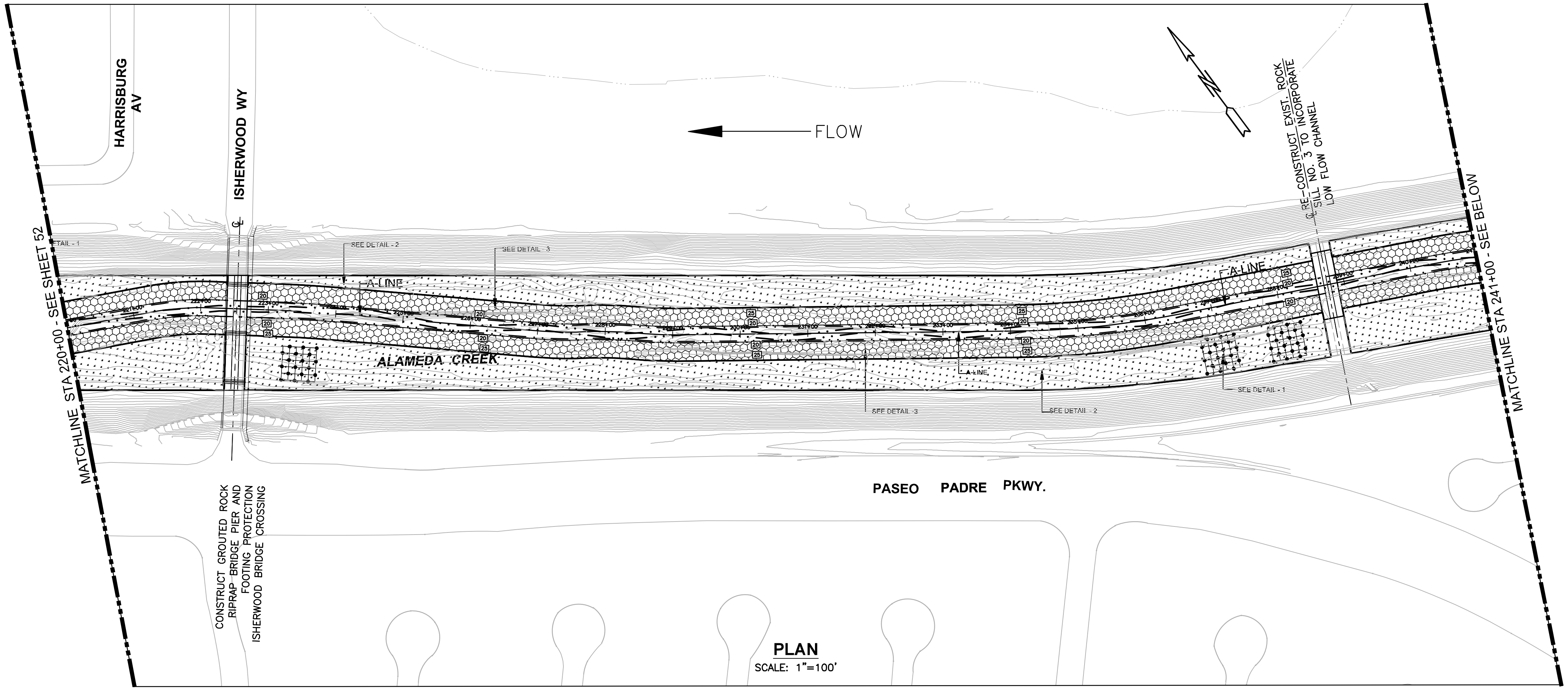
X
PROJECT DESIGN ENGINEER

REVIEWED BY DATE

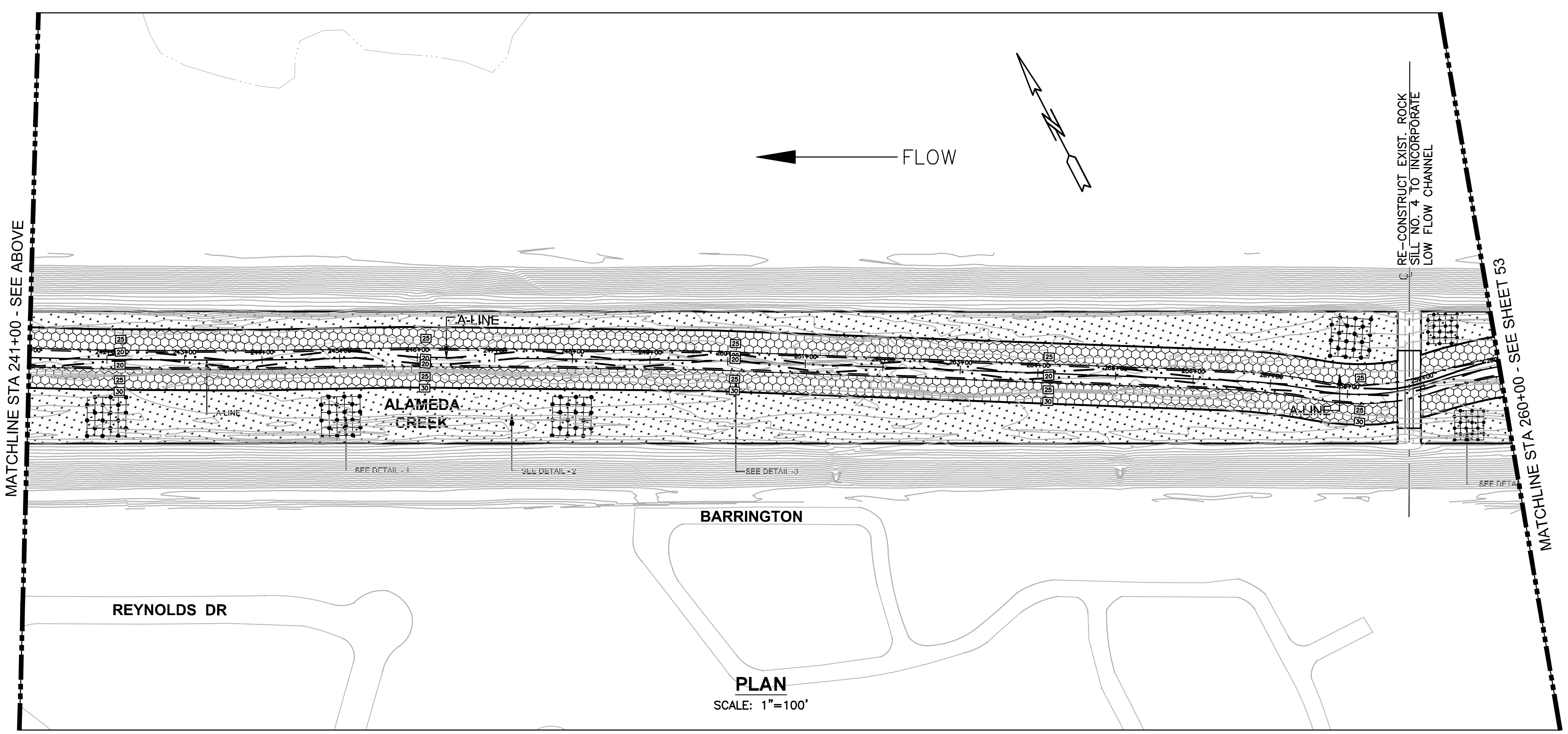
DEPARTMENT

DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 51 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES
0 1 2 3




PLAN
SCALE: 1"=100'




PLAN
SCALE: 1"=100'

| REVIEWED BY: | DATE: | REVIEWED BY: | DATE: |
|---|---|---|---|
| CONSTRUCTION | | SURVEY | |
| MAINTENANCE | | TRAFFIC | |
| REAL ESTATE | | ENVIRONMENTAL | |

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**70% REVIEW**
**INCOMPLETE PLAN**

X
PROJECT DESIGN ENGINEER
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DEPARTMENT

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES
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REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
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APPROVED
REGISTERED PROFESSIONAL ENGINEER
ENGINEER NAME
No. ####
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STATE OF CALIFORNIA
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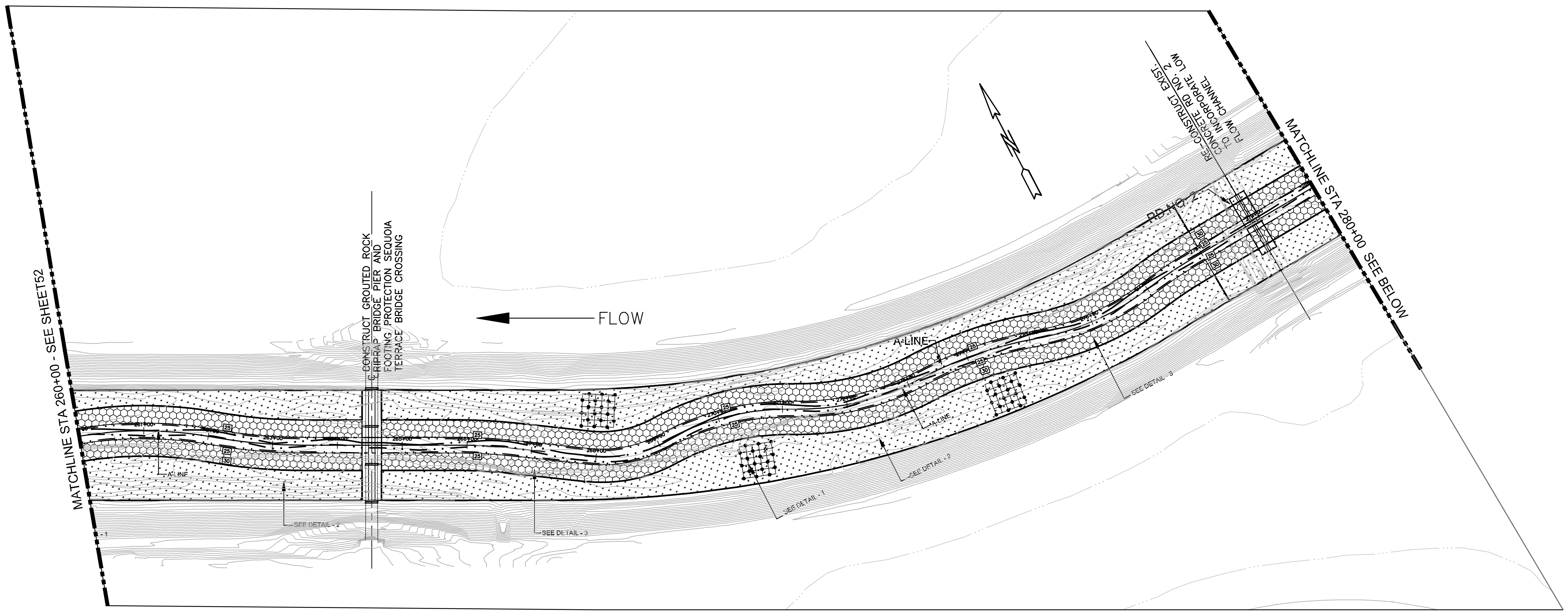
PROJECT ENGINEER NAME
REVIEWED:
MOSES TSANG
APPROVAL RECOMMENDED:
HANK ACKERMAN

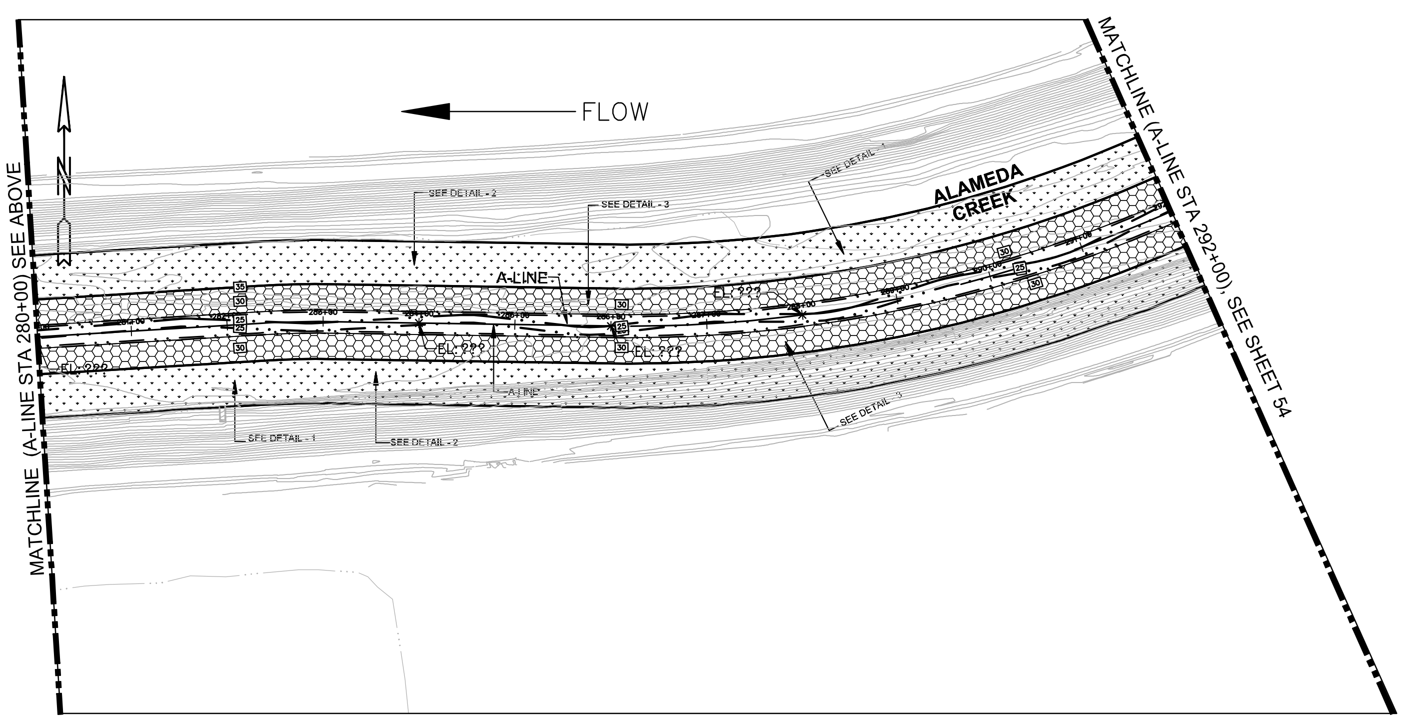
ALAMEDA CREEK
RESTORATION PROJECT
CORPS STA 355+11.13 TO 518+50.09
**PLANTING PLAN (STA 220-260)**

DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 52 OF 54
FILE NO. ----

| REVIEWED BY: | DATE: | | REVIEWED BY: | DATE: |
|---|---|---|---|---|
| CONSTRUCTION | | SURVEY | | |
| MAINTENANCE | | TRAFFIC | | |
| REAL ESTATE | | ENVIRONMENTAL | | |




**PLAN**
SCALE: 1"=100'




**PLAN**
SCALE: 1"=100'

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DEPARTMENT

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APPROVAL DATE

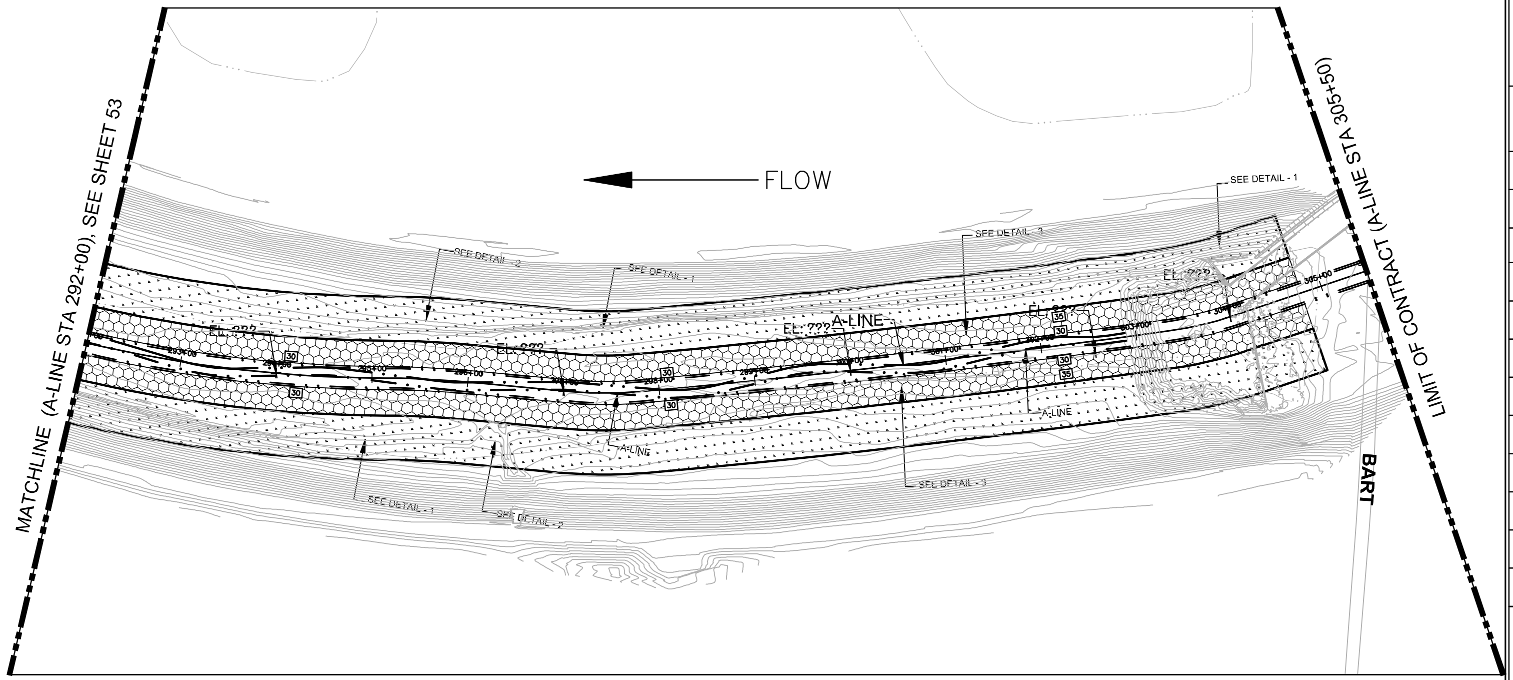
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

PROJECT ENGINEER NAME
MOSES TEANG
HANK ACKERMAN

**ALAMEDA CREEK RESTORATION PROJECT**
**CORPS STA 355+11.13 TO 518+50.09**
**PLANTING PLAN (STA 260-292)**

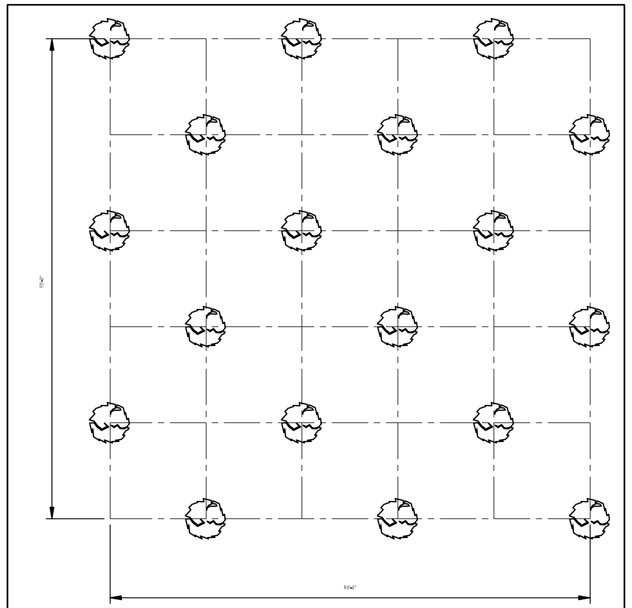
DATE
SCALE
WORK ORDER NO. 2100035
SPECIFICATION NO. ----
SHEET NO. 53 OF 54
FILE NO. ----

FOR REDUCED ENGLISH PLANS ORIGINAL SCALE IS IN INCHES
0 1 2 3




**PLAN**

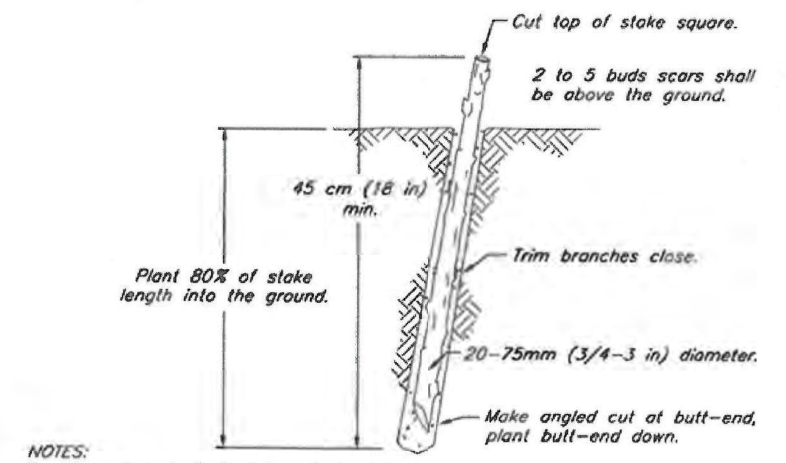
SCALE: 1"=100'



**DETAIL - 1**

18" CUTTINGS BACCHARIS SALICIFOLIA (MULEFAT)

NO SCALE




NOTES:
1. Harvest and plant stakes during the dormant season.
2. Use healthy, straight and live wood at least 1 year old.
3. Make clean cuts and do not damage stakes or split ends during installation, use a pilot bar in firm soils.
4. Soak cuttings for 24 hours (min.) prior to installation.
5. Tamp the soil around the stake.

**CUTTING DETAIL**

NO SCALE

## 1. LOW FLOW CHANNEL BANKS (approx. 80 ft. wide, establish by Hydroseed or Broadcast seed)

| BIOLOGICAL NAME/COMMON NAME | Lbs./ac | %Germ |
|---|---|---|
| ELYMUS TRITICOIDES / CREEPING WILDRYE | 20 | 60 |
| BROMUS CARINATUS / CALIFORNIA BROME | 5 | 60 |
| DANTHONIA CALIFORNICA | 5 | 60 |
| HORDEUM BRACHYANTHERUM / MEADOW BARLEY | 20 | 60 |
| DESCHAMPSIA CAESPITOSA / TUFTED HAIRGRASS | 5 | 60 |
| SCHOENOPLECTUS CALIFORNICA / BULRUSH | 5 | 50 |
| BOLBOSCHOENUS ROBUSTUS / ALKALI BULRUSH | 3 | 50 |
| JUNCUS BALTICUS / BALTIC RUSH | 3 | 50 |
| COTULA CORONOPIFOLIA / BRASS–BUTTONS | 2 | 50 |
| JJUNCUS PATENS / BLUE RUSH | 3 | 50 |
| BACCHARIS GLUTINOSA / MARSH BACCHARIS | 2 | 50 |
| ELEOCHARIS MACROSTACHYA / IRIS LEAF SPIKE RUSH | 2 | 50 |

## 2. FLOODPLAIN TERRACE (120 ft. wide, establish by Hydroseed or Broadcast seed)

| BIOLOGICAL NAME/COMMON NAME | Lbs./ac | %Germ |
|---|---|---|
| ELYMUS GLAUCUS / BLUE WILDRYE | 20 | 60 |
| BROMUS CARINATUS / CALIFORNIA BROME | 10 | 60 |
| HORDEUM BRACHYANTHERUM / MEADOW BARLEY | 20 | 60 |
| DESCHAMPSIA CAESPITOSA / TUFTED HAIRGRASS | 5 | 60 |
| CAREX BARBARAE / BARBARY SEDGE | 5 | 50 |
| ESCHSCHOLZIA CALIFORNICA / CALIFORNIA POOPY | 3 | 50 |
| STIPA PULCHRA / PURPLE NEEDLE GRASS | 5 | 60 |
| LUPINUS BICOLOR / DOVE IUPINE | 3 | 50 |
| CASTILLEJA EXSERTA / PURPLE OWL'S CLOVER | 2 | 50 |
| ACHILLEA MILIFOLIUM / YARROW | 2 | 50 |

## 3. HERBACEOUS/WOODY PLANTING BLOCKS (establish by cutting or small container seedings 3–5 ft spc.)

TBD

| BIOLOGICAL NAME/COMMON NAME |
|---|
| BACCHARIS SALIFCIFOLIA / MULEFAT |
| LUPINUS SUCCULENTUS / ARROYO IUPINE |
| CORNUS GLABRATA / BROWN TWIG DOGWOOD |
| MUHLENBERGIA RIGENS / DEER GRASS |

**70% REVIEW INCOMPLETE PLAN**

X

PROJECT DESIGN ENGINEER

REVIEWED BY DATE

DEPARTMENT

| REVIEWED BY: | DATE: | | REVIEWED BY: | DATE: |
|---|---|---|---|---|
| CONSTRUCTION | | SURVEY | | |
| MAINTENANCE | | TRAFFIC | | |
| REAL ESTATE | | ENVIRONMENTAL | | |

REVISIONS

| NO. | DESCRIPTION | BY | DATE | APPV'D |
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REGISTERED PROFESSIONAL ENGINEER — ENGINEER NAME — No. Structural ##### — CIVIL–GEOTECHNICAL — STATE OF CALIFORNIA

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DESIGNED: ST

APPROVED: ST

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REVIEWED: PROJECT ENGINEER NAME

REVIEWED: MOSES TEANG

APPROVAL RECOMMENDED: HANK ACKERMAN

**ALAMEDA CREEK RESTORATION PROJECT**

**CORPS STA 355+11.13 TO 518+50.09**

**PLANTING PLAN (STA 292-305) & DETAILS**

DATE

SCALE

WORK ORDER NO. 2100035

SPECIFICATION NO. ––––

SHEET NO. 54 OF 54

FILE NO. ––––

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