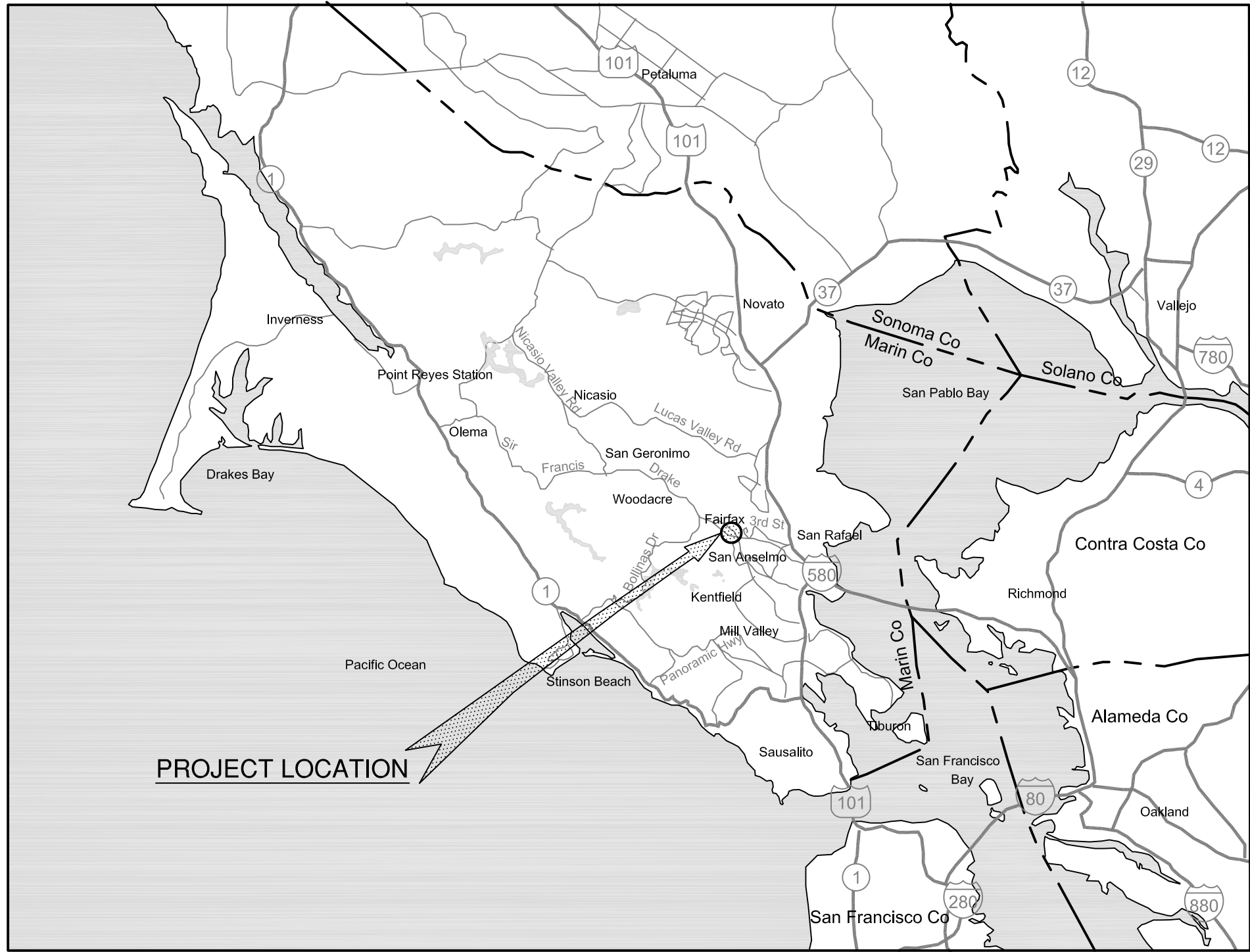
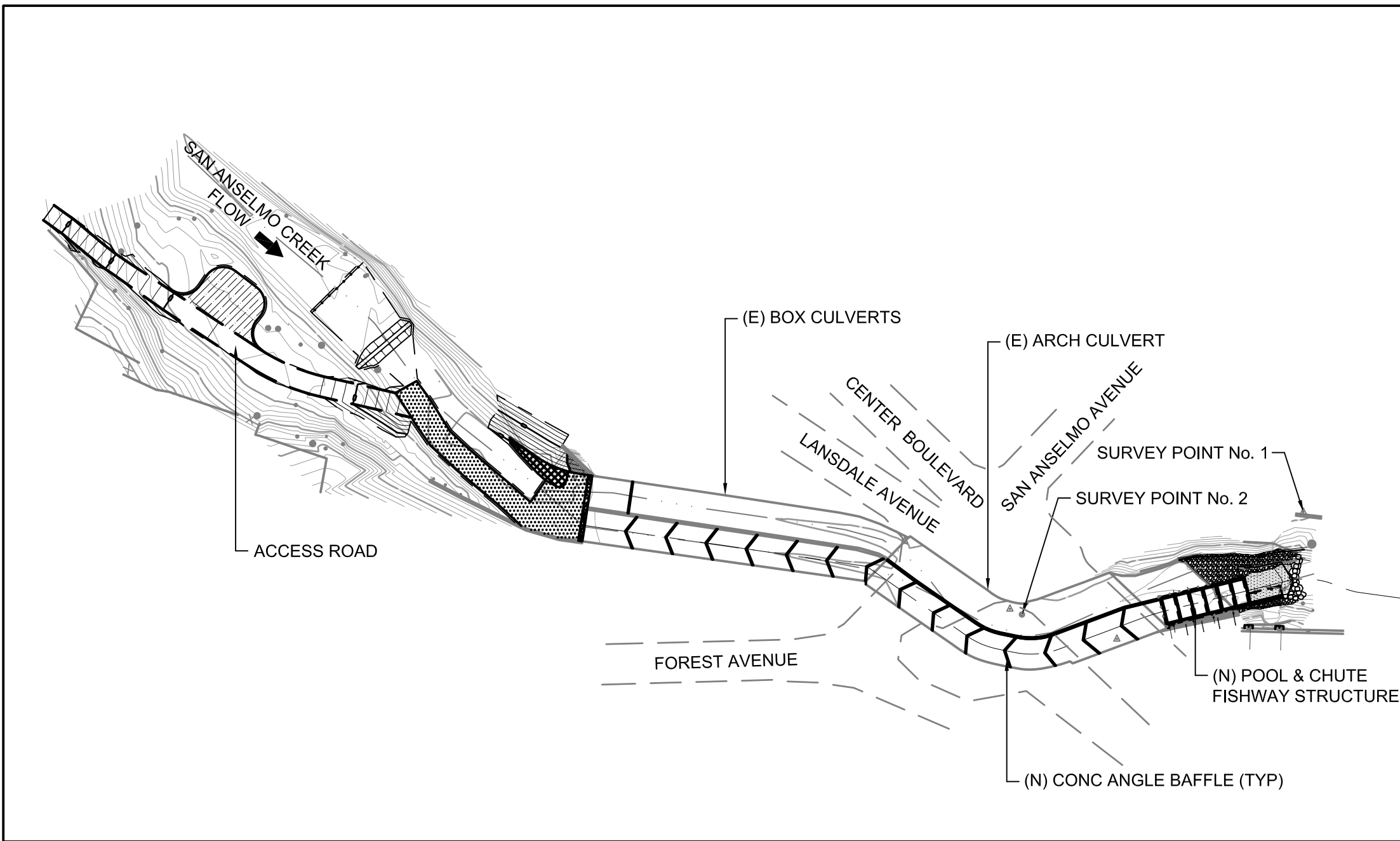


LANSDALE FISH PASSAGE PROJECT

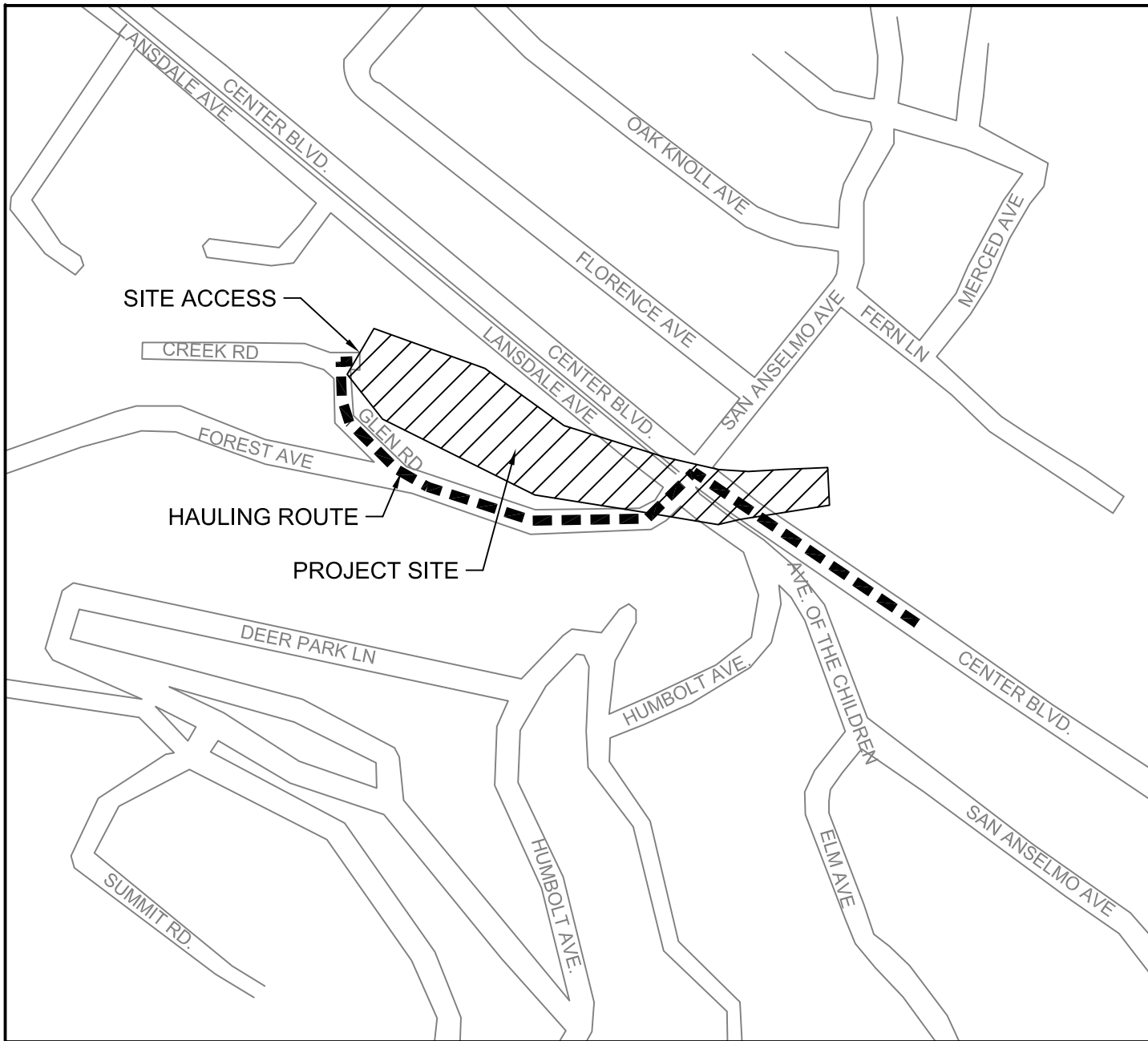
SAN ANSELMO CREEK AT LANSDALE AVENUE SAN ANSELMO, CA PREPARED FOR THE TOWN OF SAN ANSELMO



VICINITY MAP
Not to Scale



GENERAL PROJECT SITE MAP
1" = 60'-0"



LOCATION MAP
Not to Scale

SURVEY NOTES

- SITE TOPOGRAPHY SURVEY CONDUCTED BY WINZLER AND KELLY ON MAY 9, 2007. HORIZONTAL AND VERTICAL DATUM ASSUMED (HORIZ IS MAGNETIC).
- THE BASES OF ELEVATIONS AND HORIZONTAL ALIGNMENT FOR THIS DESIGN ARE REFERENCED FROM POINTS 1 & 2:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	5000.00	5000.00	500.00	SET X
2	4949.60	4861.52	511.84	FD MAG

SHEET INDEX

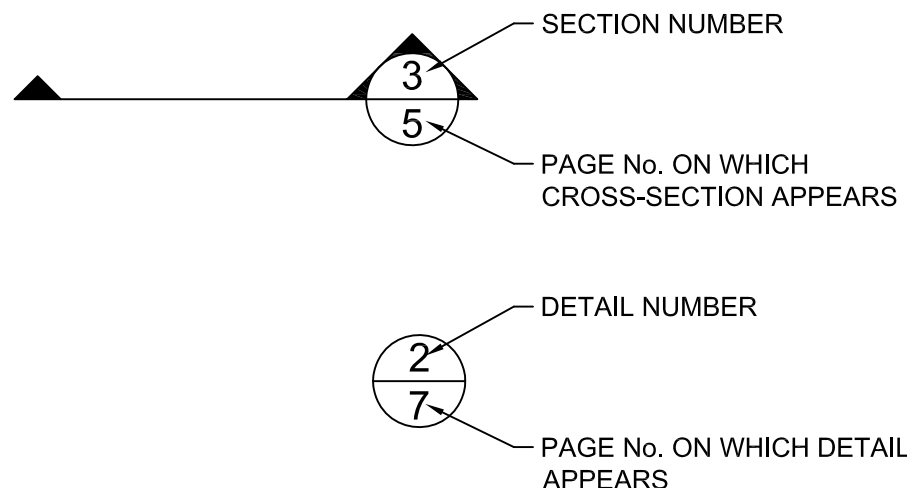
SHEET No.	DESCRIPTION
1	TITLE SHEET
2	PROJECT OVERVIEW
3	SITE ACCESS PLAN
4	SITE PLAN AND PROFILE FISHWAY CENTERLINE
5	CROSS-SECTIONS
6	POOL & CHUTE FISHWAY STRUCTURE PLAN VIEW, PROFILE AND TYPICAL CROSS-SECTIONS
7	TYPICALS AND DETAILS

100% SUBMITTAL

ABBREVIATIONS

APPROX	APPROXIMATELY
Ave	AVENUE
A.B	AGGREGATE BASE
Blvd	BOULEVARD
CA	CALIFORNIA
CL	CENTERLINE
CL	CENTERLINE
Co	COUNTY
CONC	CONCRETE
Ct	COURT
Ø	DIAMETER
Dr	DRIVE
E	EASTING
(E)	EXISTING
EL	ELEVATION
ELEV	ELEVATION
ESM	ENGINEERED STREAMBED MATERIAL
FD	FOUND
'	FEET
FT	FEET
H	HORIZONTAL
Hwy	HIGHWAY
"	INCHES
IN	INCHES
Lt	LINE
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
(N)	NEW
#	NUMBER
No.	NUMBER
O.C	ON CENTER
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
RC	RELATIVE COMPACTION
Rd	ROAD
RSP	ROCK SLOPE PROTECTION
St	STREET
STA	STATION
TYP	TYPICAL
V	VERTICAL
W/	WITH

DRAWING SYMBOLS



GENERAL NOTES

- ALL WORK SHOWN ON THESE PLANS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE COUNTY OF MARIN DATED JUNE, 1992, THE UNIFORM CONSTRUCTION STANDARDS OF THE CITIES OF SAN ANSELMO AND THE COUNTY OF MARIN DATED JUNE, 1979, CALTRANS STANDARD PLANS DATED MAY, 2006, AND THE CALTRANS STANDARD SPECIFICATIONS DATED MAY, 2006, (IN SO FAR AS THE SAME MAY APPLY) AS MODIFIED BY THE SPECIAL PROVISIONS FOR THIS PROJECT.
- THE LOCATION FOR UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH. THIS VERIFICATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY. CALL U.S.A. (UNDERGROUND SERVICE ALERT) FOR UTILITY LOCATION QUESTIONS AT LEAST 48 HOURS BEFORE DIGGING. PHONE (800) 642-2444.
- WHERE PARKING IS PERMITTED, THE CONTRACTOR SHALL POST "NO PARKING" SIGNS WITHIN THE AREA OF WORK. THE POSTING SHALL BE VERIFIED BY THE ENGINEER AND THE POLICE DEPARTMENT 72 HOURS PRIOR TO COMMENCING WORK. HOWEVER, IF THE INTENDED WORK DOES NOT COMMENCE WITHIN 24 HOURS OF THE SCHEDULED WORK, ALL "NO PARKING" SIGNS SHALL BE REMOVED.
- CONTRACTOR TO PROVIDE A 72 HOUR NOTICE TO PROPERTY OWNERS AND RESIDENTS PRIOR TO COMMENCING CONSTRUCTION WORK. NOTIFICATION TO BE BY LETTER AND SHALL BE APPROVED BY ENGINEER. THE ENGINEER SHALL PROVIDE THE LIST OF THE RESIDENCES TO BE SENT THE LETTER.
- CONTRACTOR SHALL COMPLY WITH ANY CONDITIONS AS STATED IN RIGHT OF WAY AGREEMENTS, OR PERMISSION TO ENTER PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT RESIDENTS AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE DEWATERING PLAN CONFORMING TO THE SPECIFICATIONS.
- CONTRACTOR TO COMPLY WITH ALL CONDITIONS OF ENVIRONMENTAL PERMITS AS PROVIDED BY THE COUNTY.

DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA, 94901
(415) 457-0701

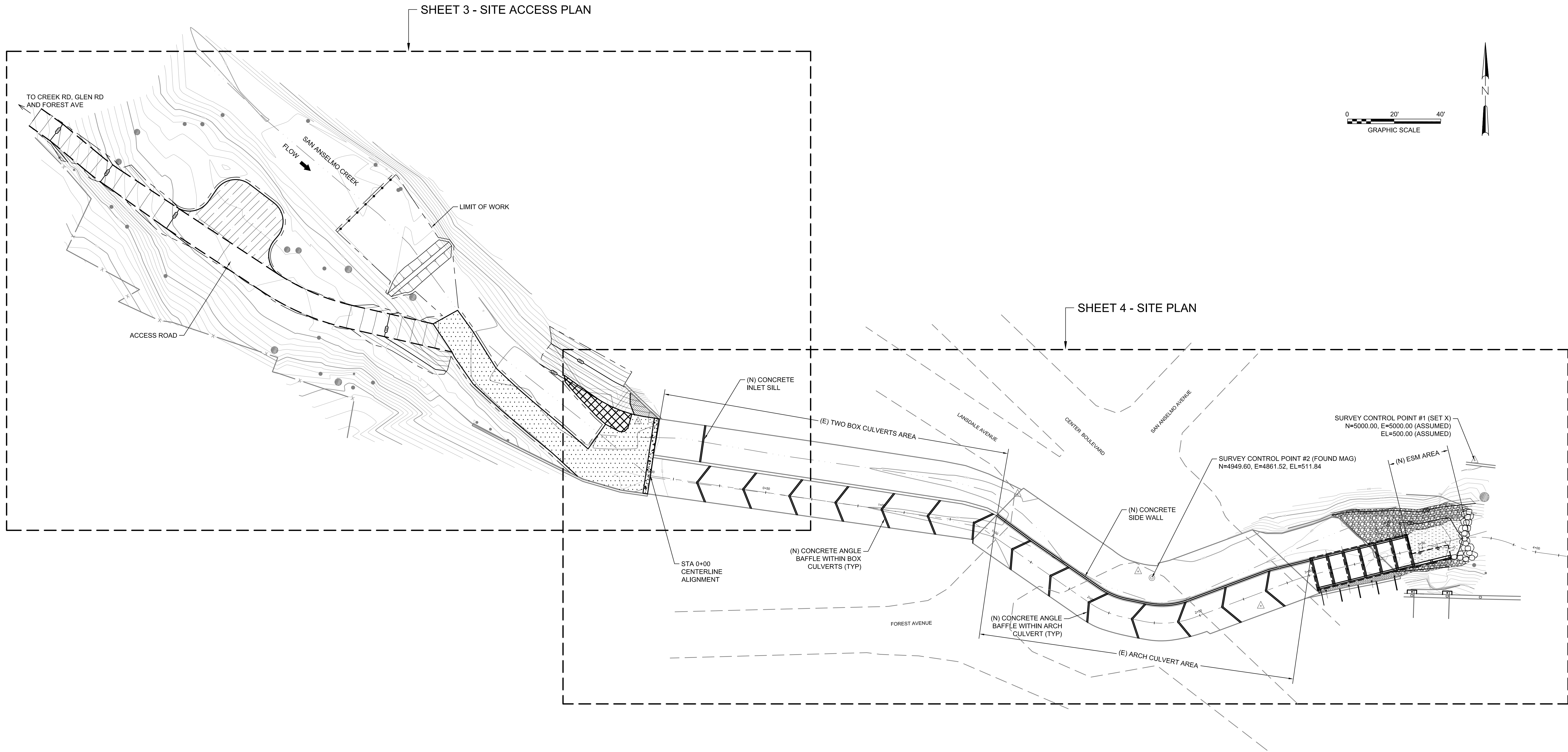


FISH PASSAGE PROJECT
SAN ANSELMO CREEK AT LANSDALE AVE

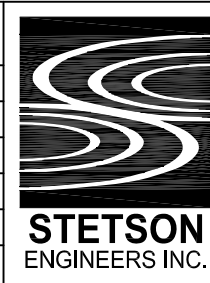
TITLE SHEET

DATE:	DECEMBER 9, 2010
SCALE:	AS INDICATED
PROJECT No.:	2128-002

SHEET
1 OF 7



DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA, 94901
(415) 457-0701

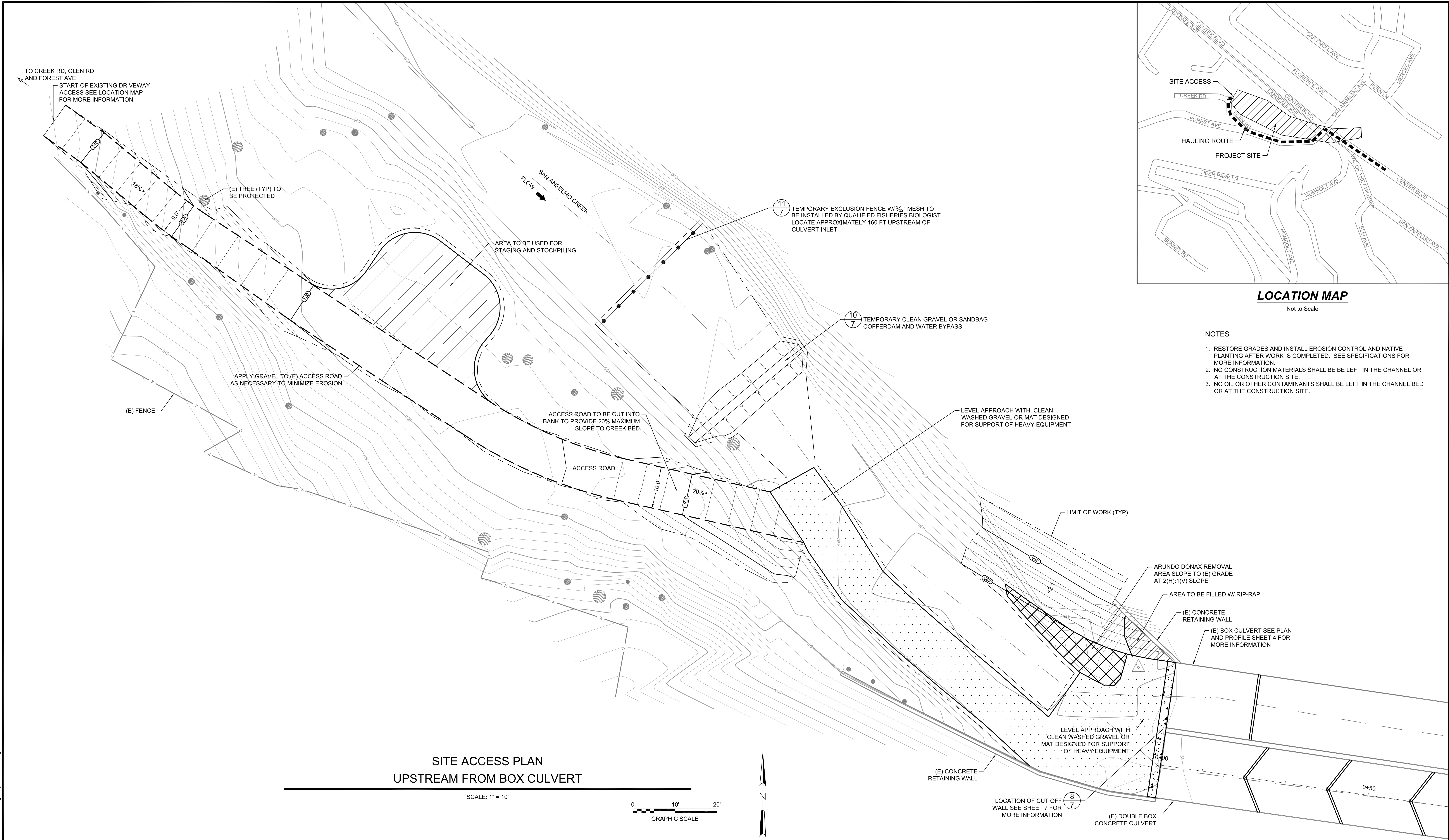


FISH PASSAGE PROJECT SAN ANSELMO CREEK AT LANSDALE AVE

PROJECT OVERVIEW

DATE:	DECEMBER 9, 2010
SCALE:	1" = 20'-0"
PROJECT No.:	2128-002

SHEET
2 OF 7

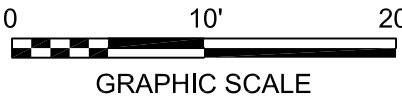


LOCATION MAP
Not to Scale

- NOTES
- 1. RESTORE GRADES AND INSTALL EROSION CONTROL AND NATIVE PLANTING AFTER WORK IS COMPLETED. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - 2. NO CONSTRUCTION MATERIALS SHALL BE LEFT IN THE CHANNEL OR AT THE CONSTRUCTION SITE.
 - 3. NO OIL OR OTHER CONTAMINANTS SHALL BE LEFT IN THE CHANNEL BED OR AT THE CONSTRUCTION SITE.

SITE ACCESS PLAN
UPSTREAM FROM BOX CULVERT

SCALE: 1" = 10'



DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

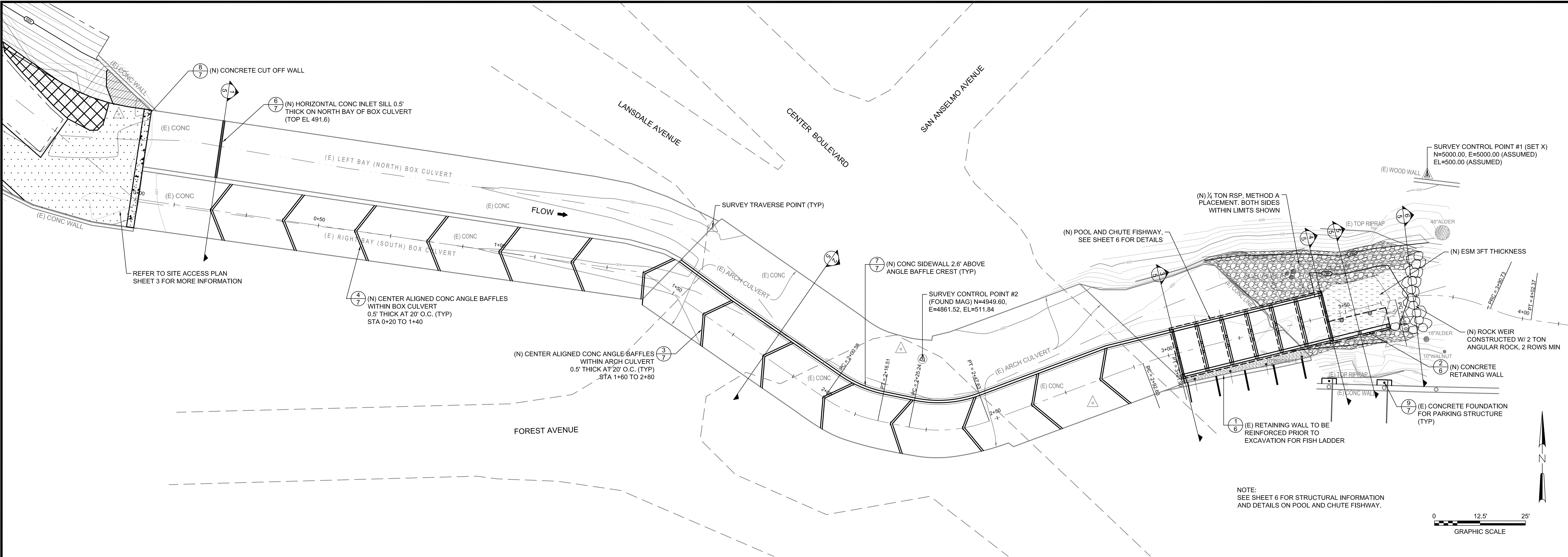


FISH PASSAGE PROJECT
SAN ANSELMO CREEK AT LANSDALE AVE

SITE ACCESS PLAN

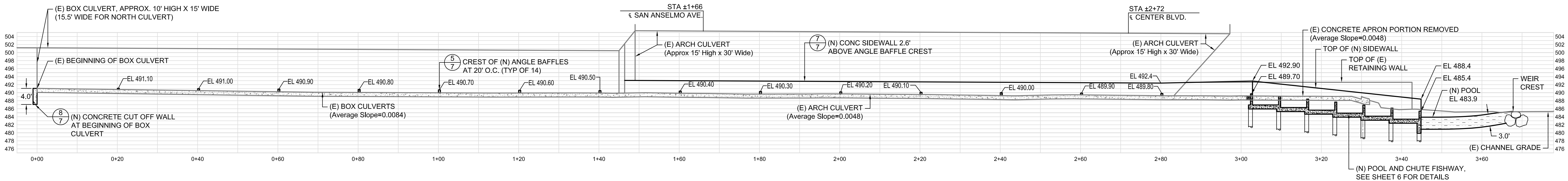
DATE:	DECEMBER 9, 2010
SCALE:	1" = 10'-0"
PROJECT No.:	2128-002

SHEET
3 OF 7



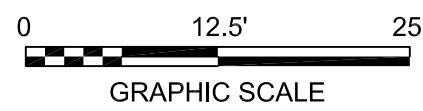
SAN ANSELMO - CREEK PLAN VIEW
CENTERLINE OF FISH PASSAGE

SCALE: 1" = 12.5'



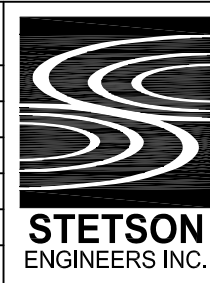
SAN ANSELMO - CREEK PROFILE
CENTERLINE OF FISH PASSAGE

SCALE: 1" = 12.5'



NOTE:
SEE SHEET 6 FOR STRUCTURAL INFORMATION
AND DETAILS ON POOL AND CHUTE FISHWAY.

DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					



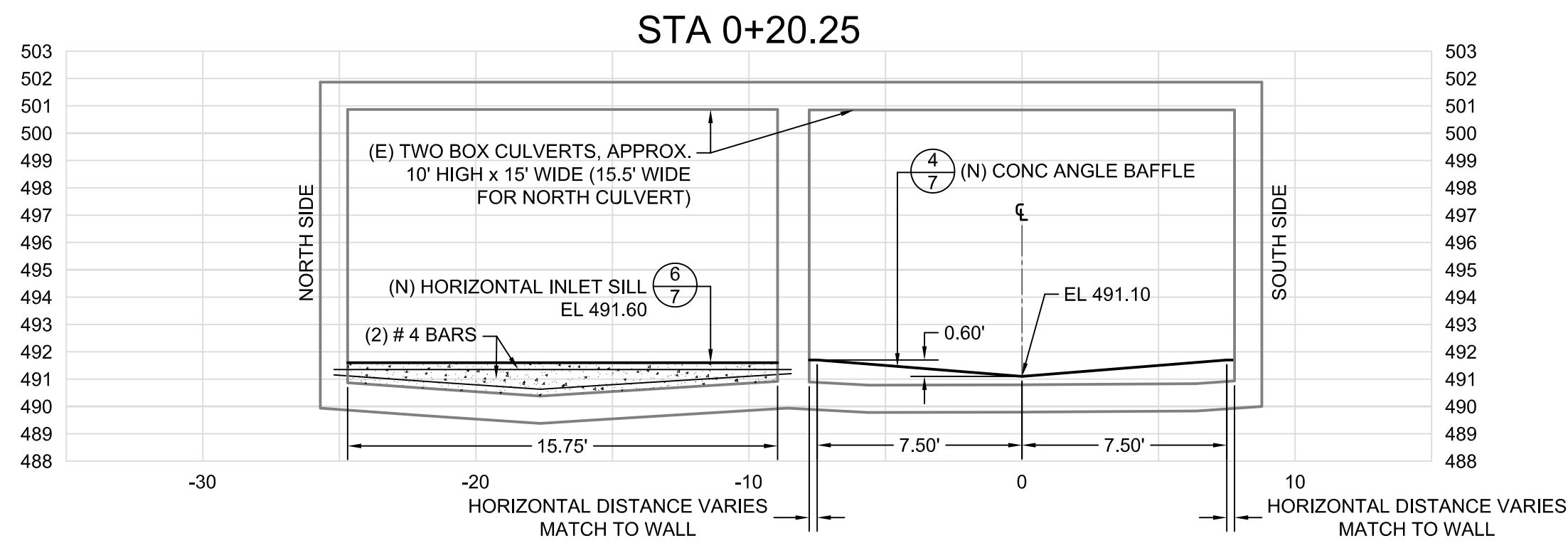
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



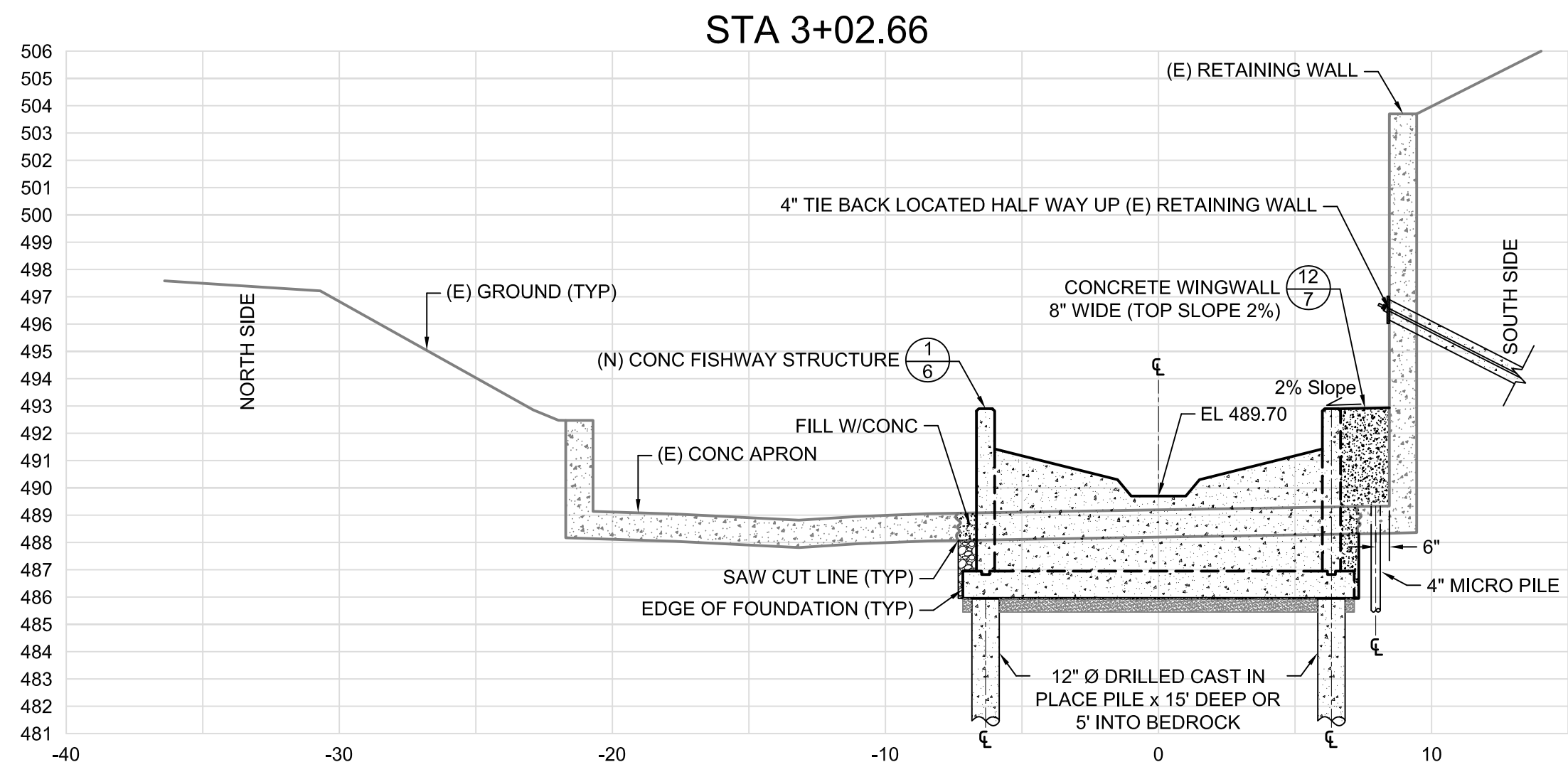
FISH PASSAGE PROJECT SAN ANSELMO CREEK AT LANSDALE AVE

SITE PLAN AND PROFILE FISHWAY CENTERLINE

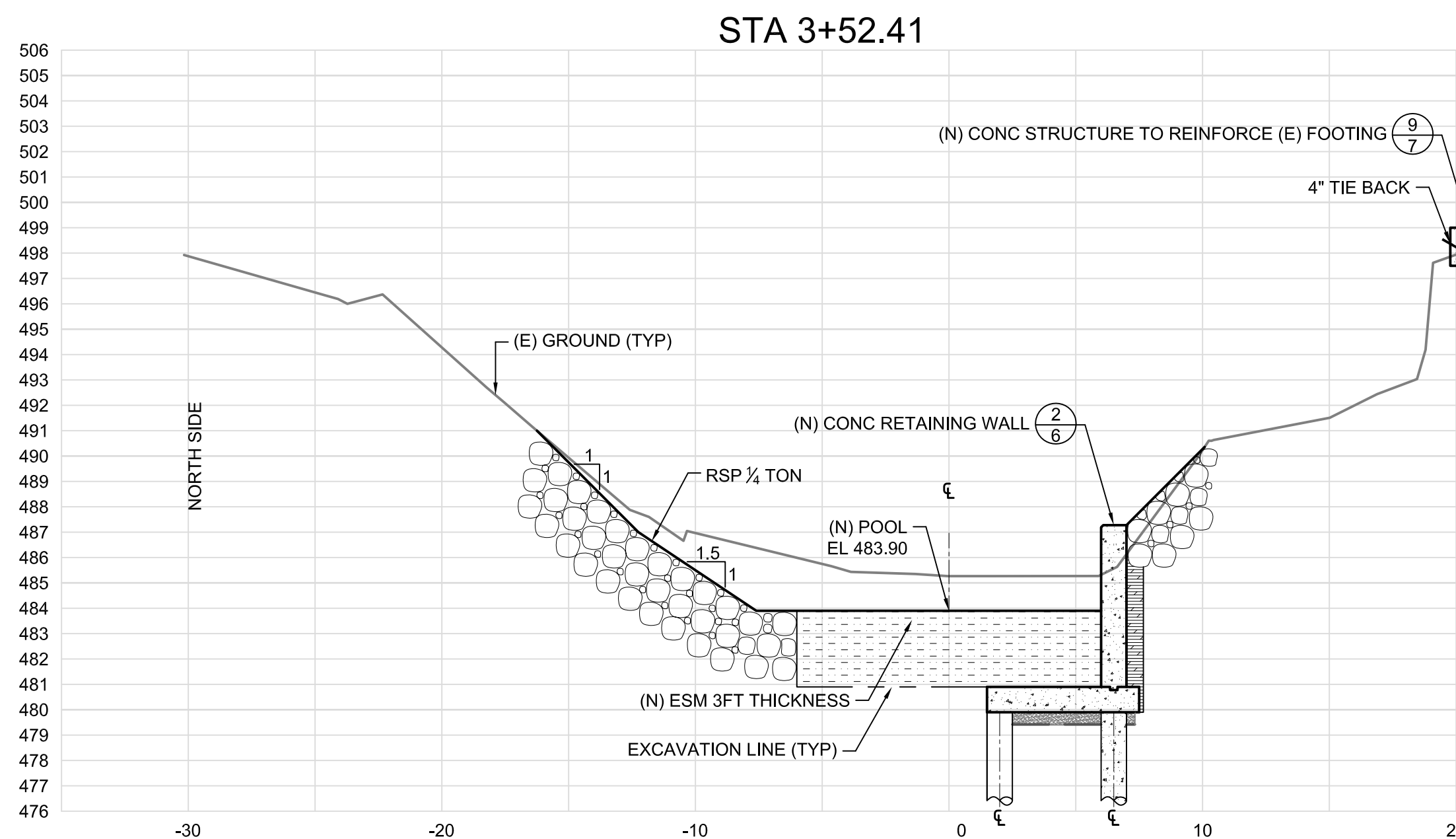
DATE:	DECEMBER 9, 2010
SCALE:	1" = 12'-6"
PROJECT No.:	2128-002



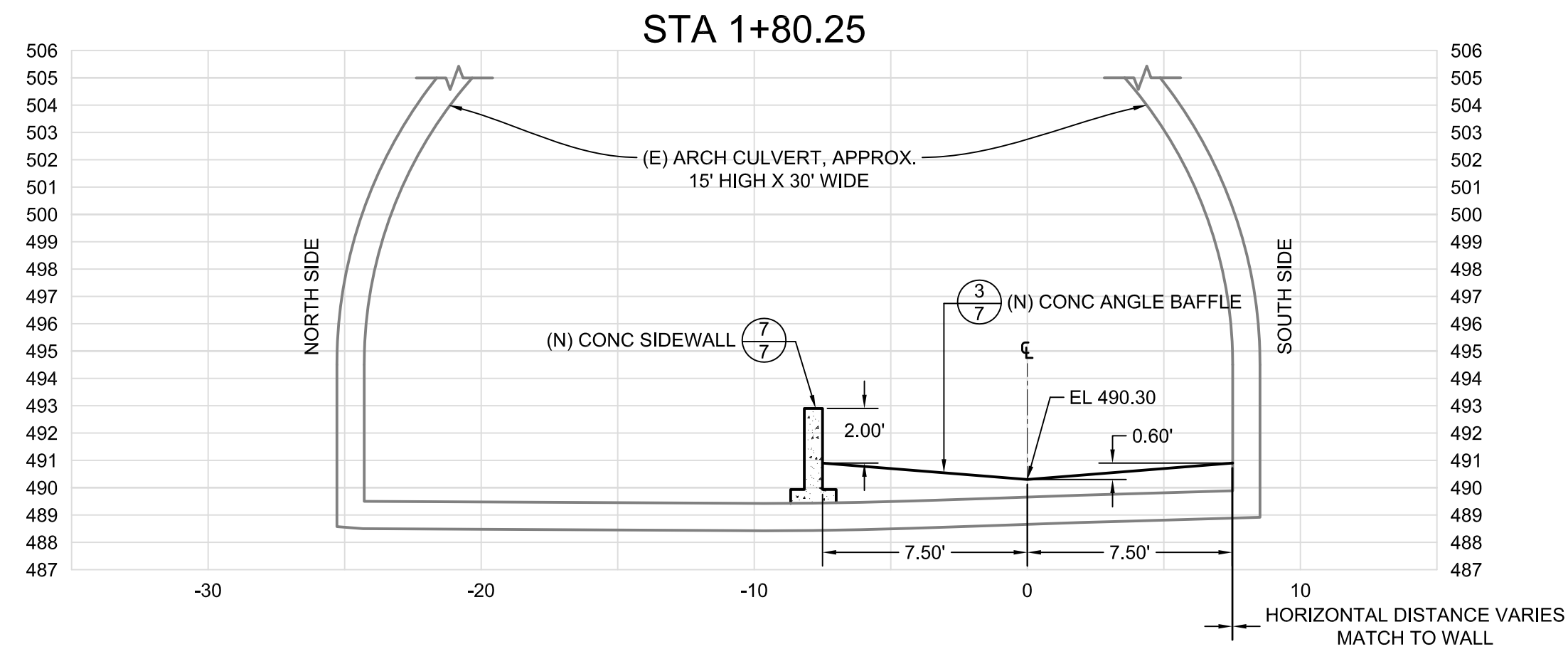
1 CROSS-SECTION - INSIDE (E) TWO BOX CULVERTS
5 Scale: 1" = 5'



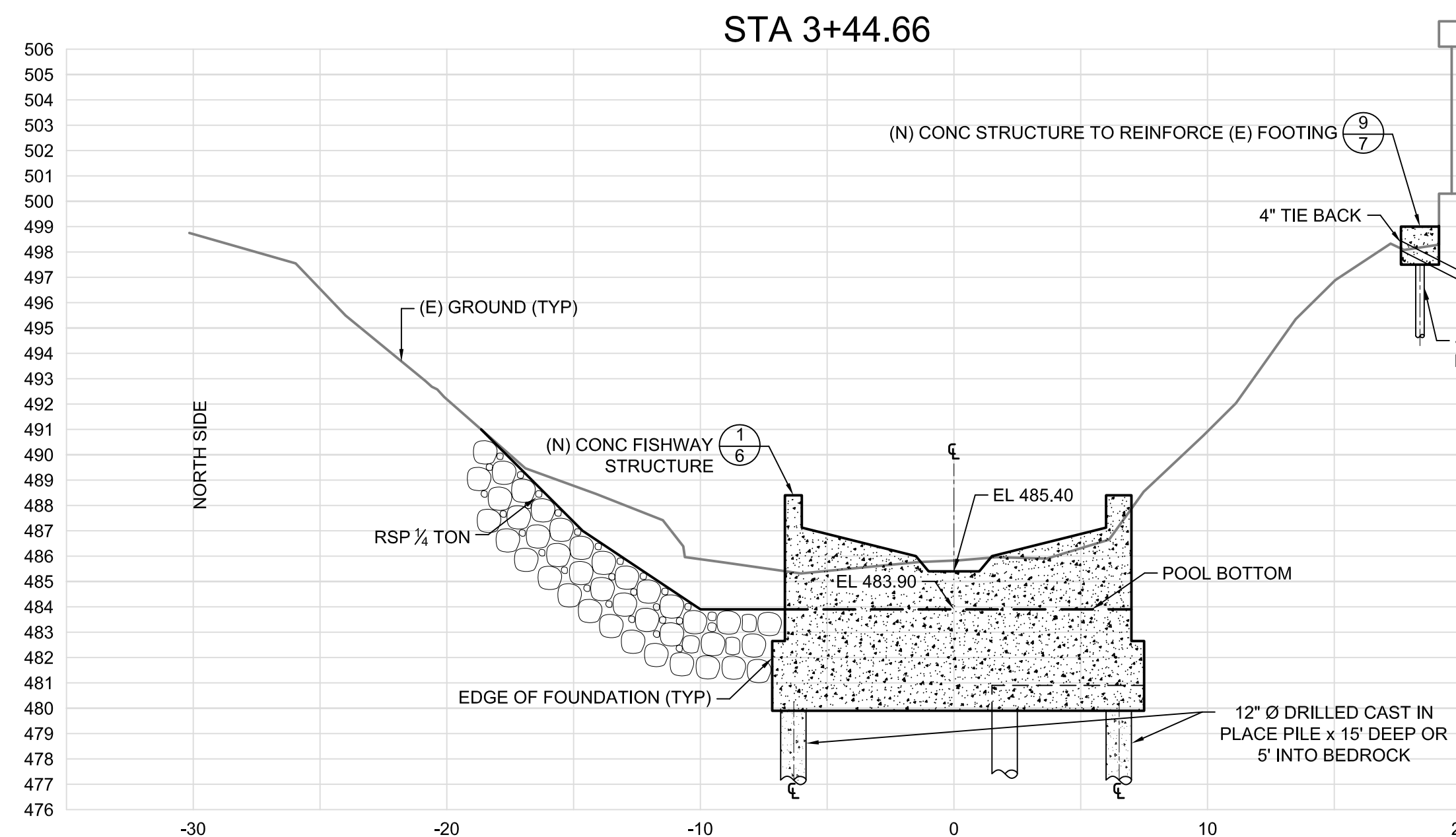
3 CROSS-SECTION - AT FISHWAY UPPER WEIR
5 Scale: 1" = 5'



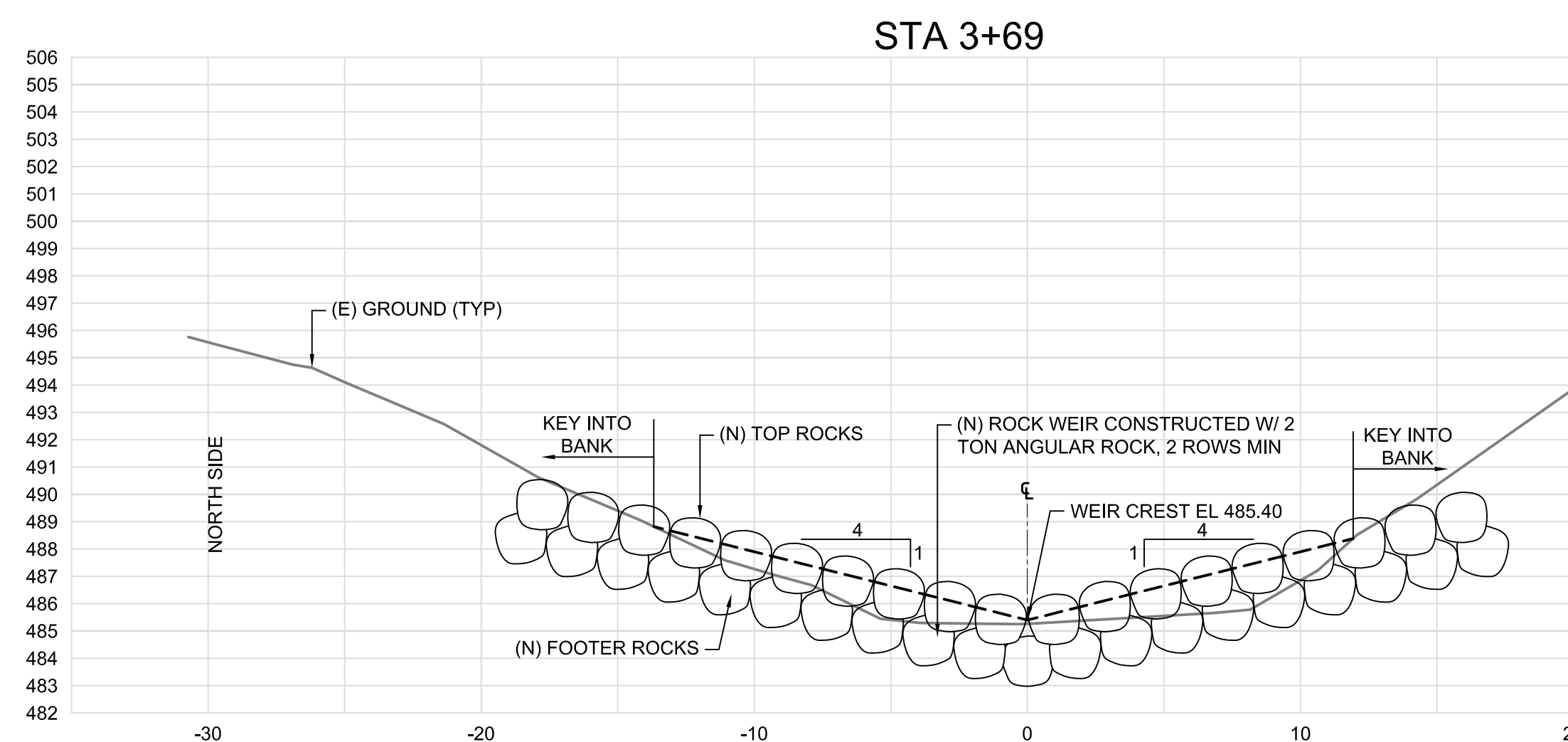
5 CROSS-SECTION - AT CONCRETE RETAINING WALL
5 Scale: 1" = 5'



2 CROSS-SECTION - INSIDE (E) ARCH CULVERT
5 Scale: 1" = 5'



4 CROSS-SECTION - AT FISHWAY LOWER WEIR
5 Scale: 1" = 5'



6 CROSS-SECTION - AT ROCK WEIR STRUCTURE
5 Scale: 1" = 5'

DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

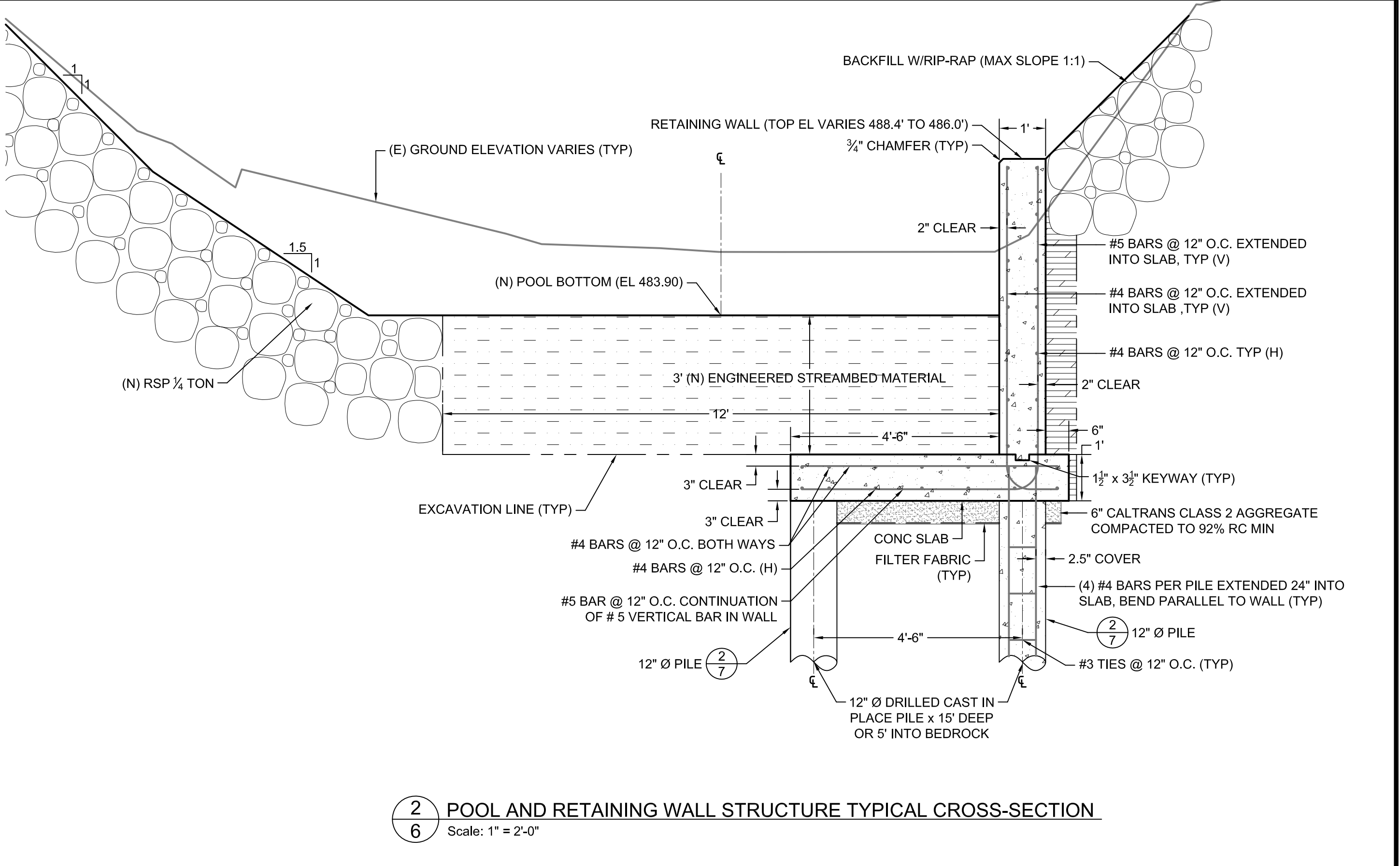
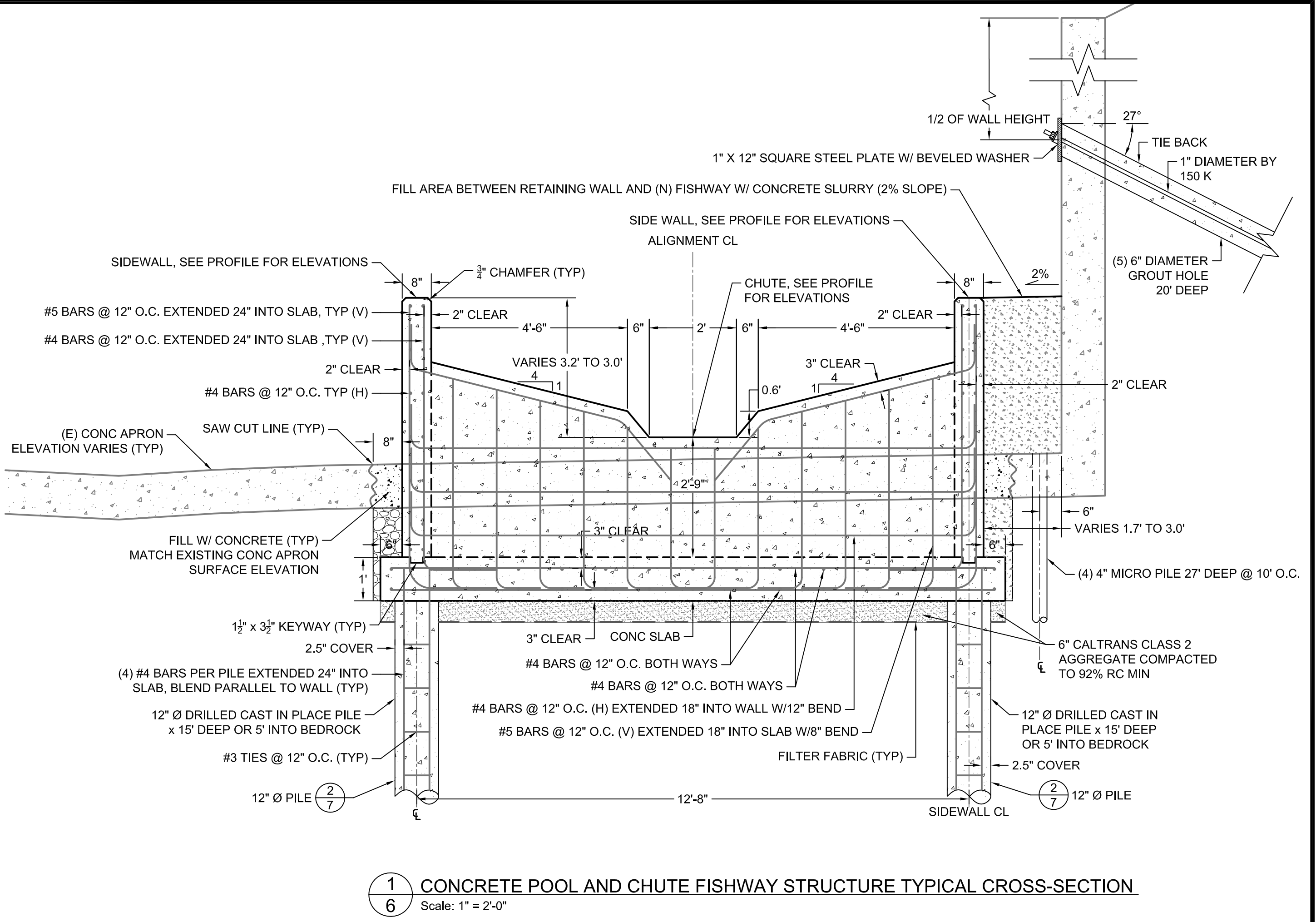
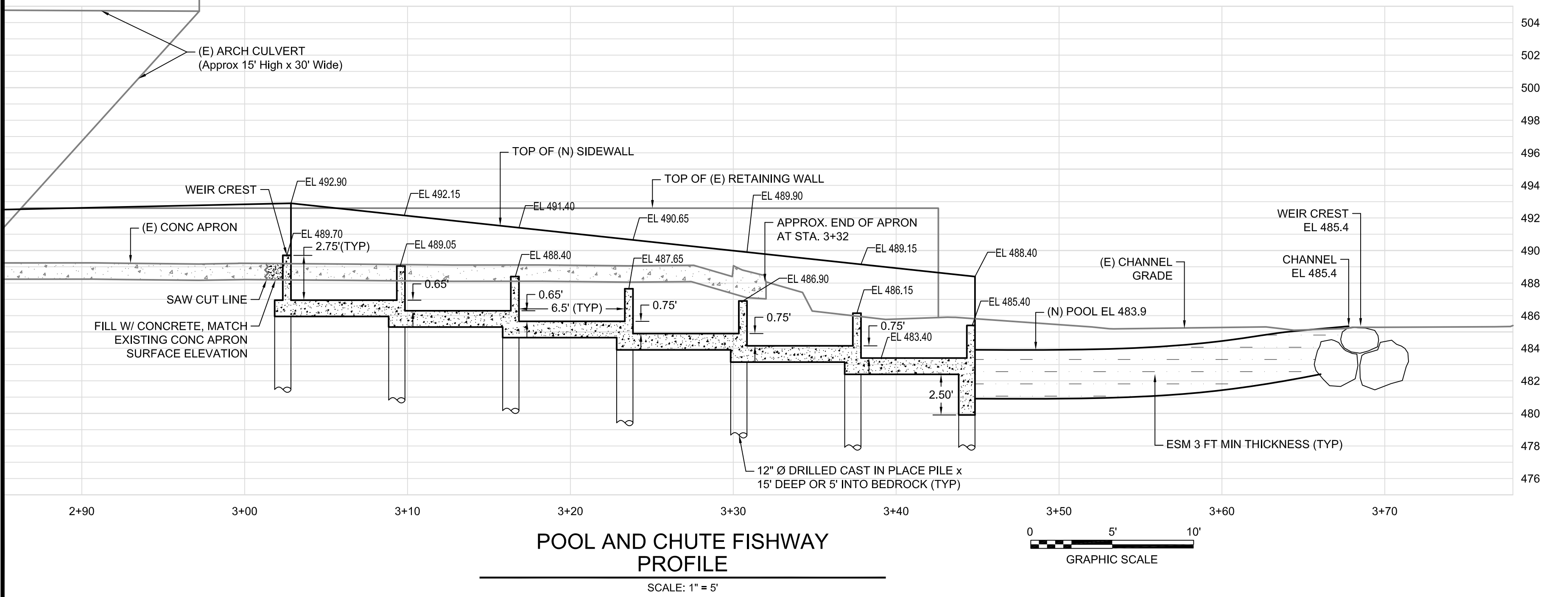
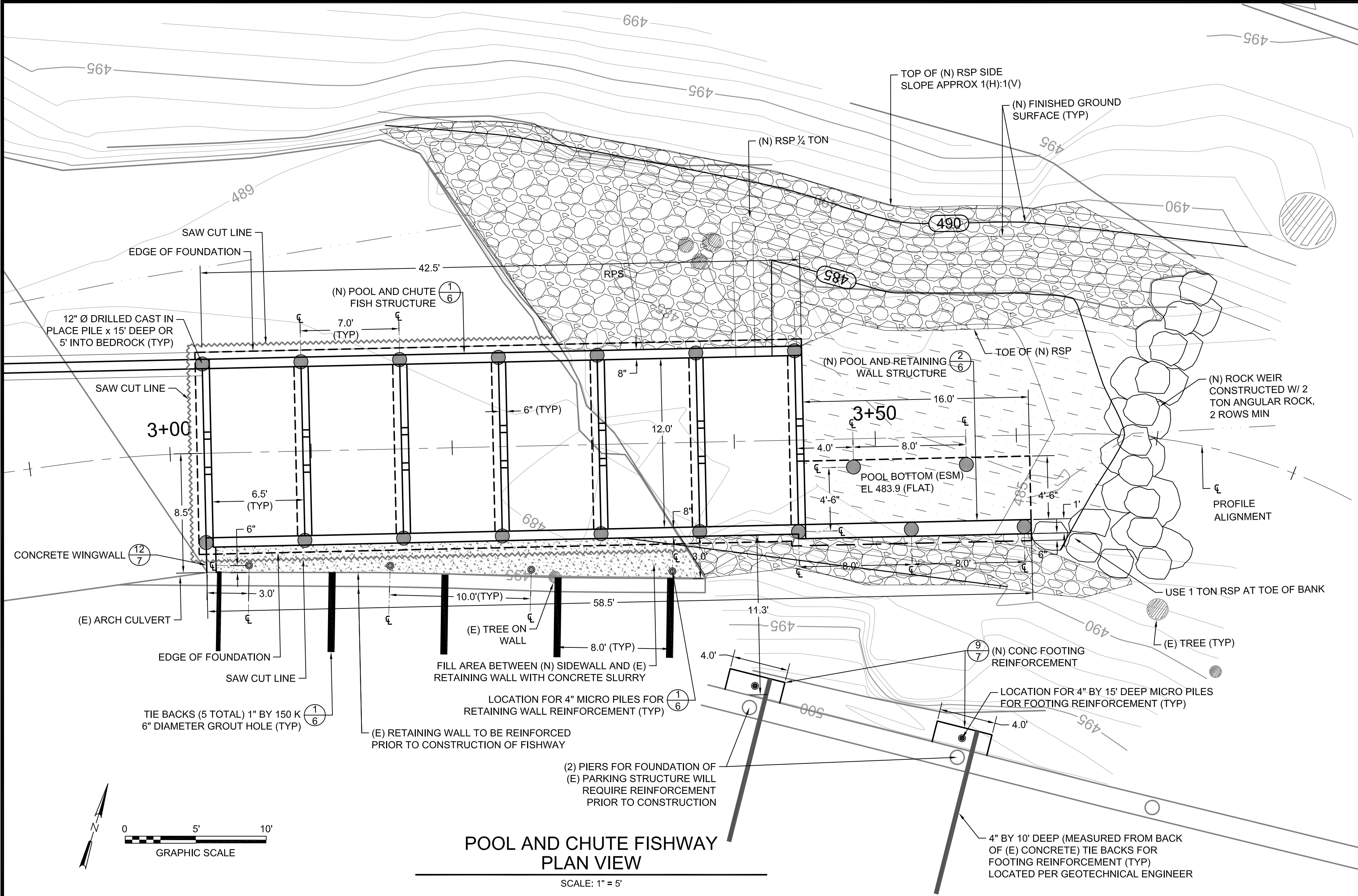


FISH PASSAGE PROJECT
SAN ANSELMO CREEK AT LANSDALE AVE

CROSS-SECTIONS

DATE:	DECEMBER 9, 2010
SCALE:	1" = 5'-0"
PROJECT No.:	2128-002

SHEET
5 OF 7



DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					

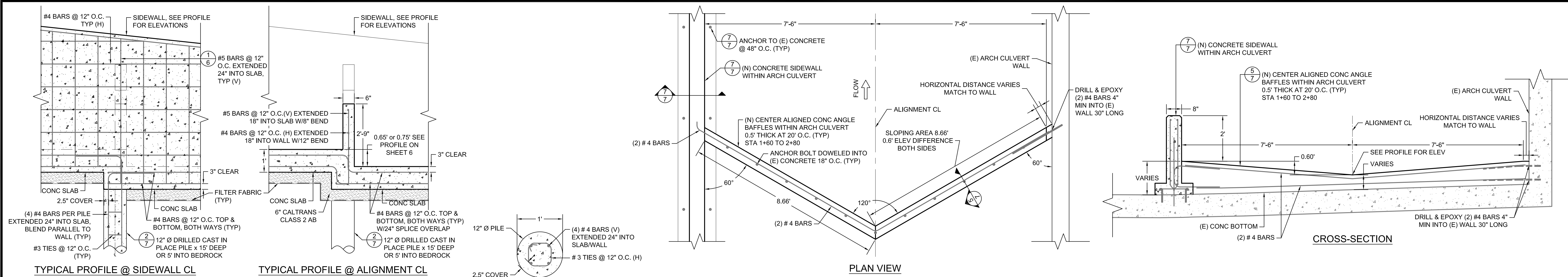
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA, 94901
(415) 457-0701

Michael Love & Associates
Hydrologic Solutions
PO Box 4477 • Arcata, CA 95521 • (707) 476-8938

FISH PASSAGE PROJECT
SAN ANSELMO CREEK AT LANSDALE AVE

POOL & CHUTE FISHWAY STRUCTURE
PLAN VIEW, PROFILE AND
TYPICAL CROSS-SECTIONS

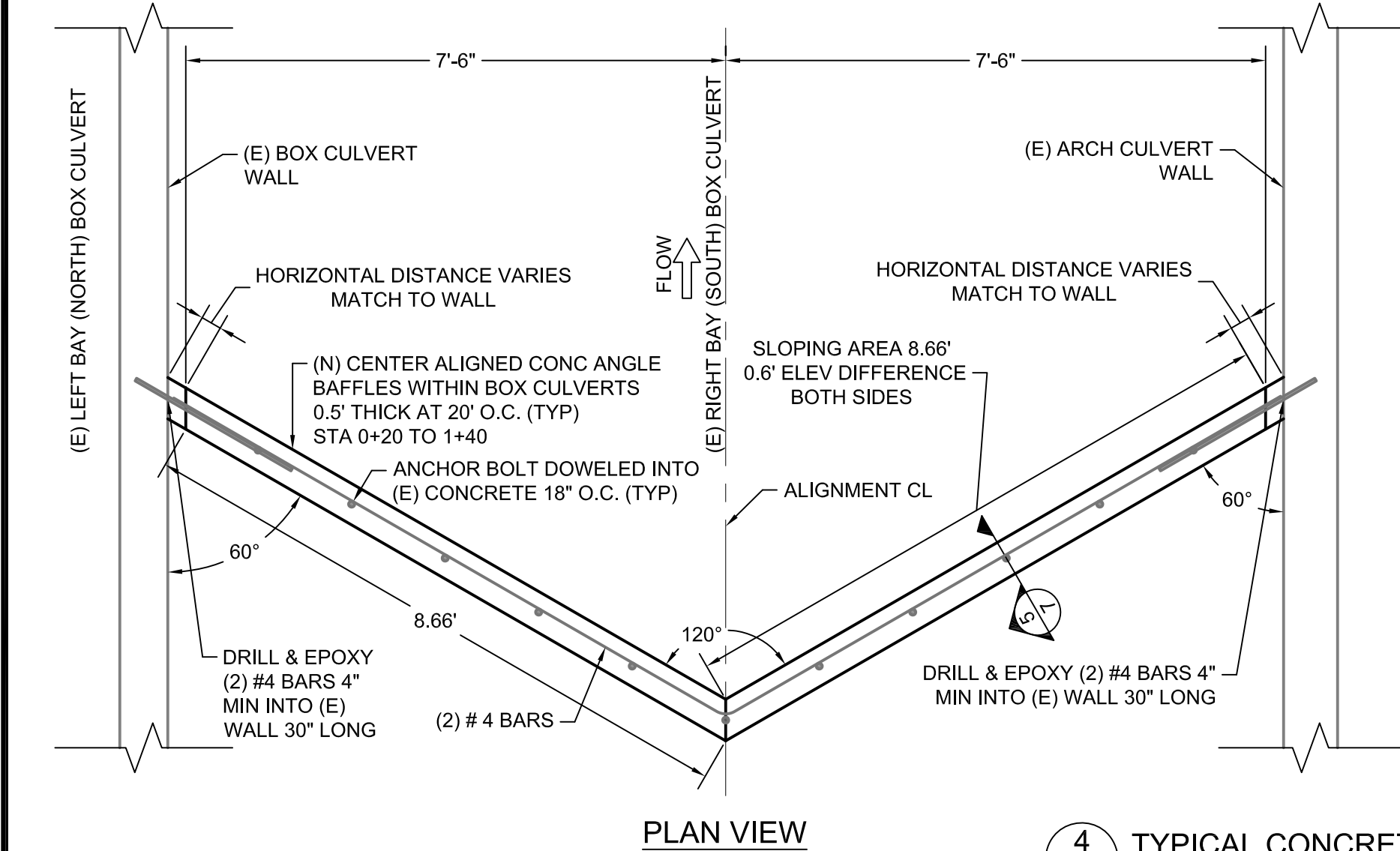
DATE:	DECEMBER 9, 2010
SCALE:	AS INDICATED
PROJECT No.:	2128-002



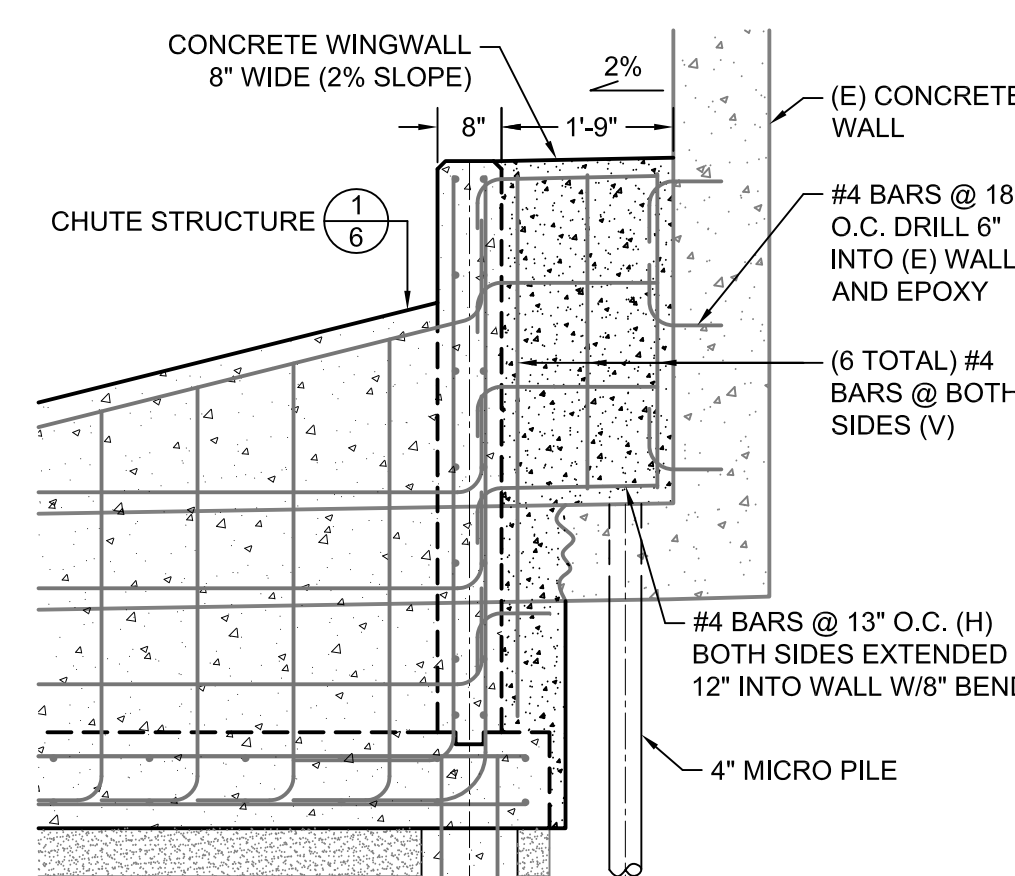
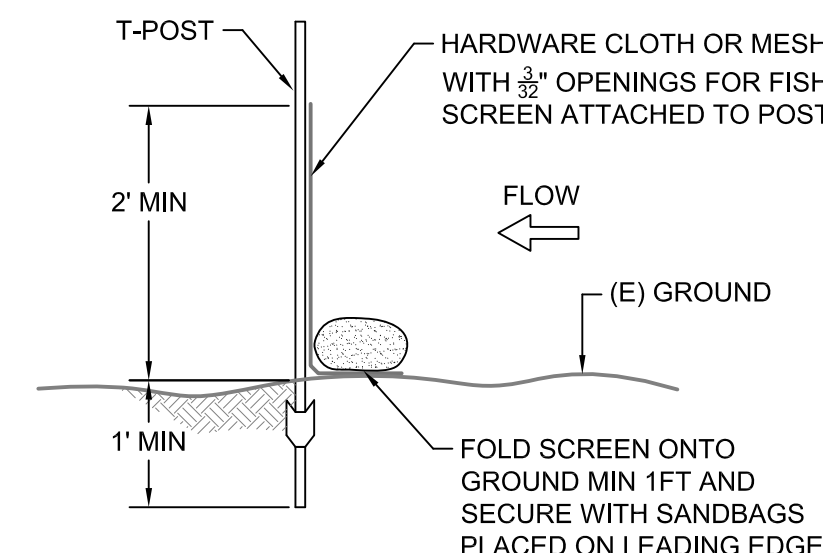
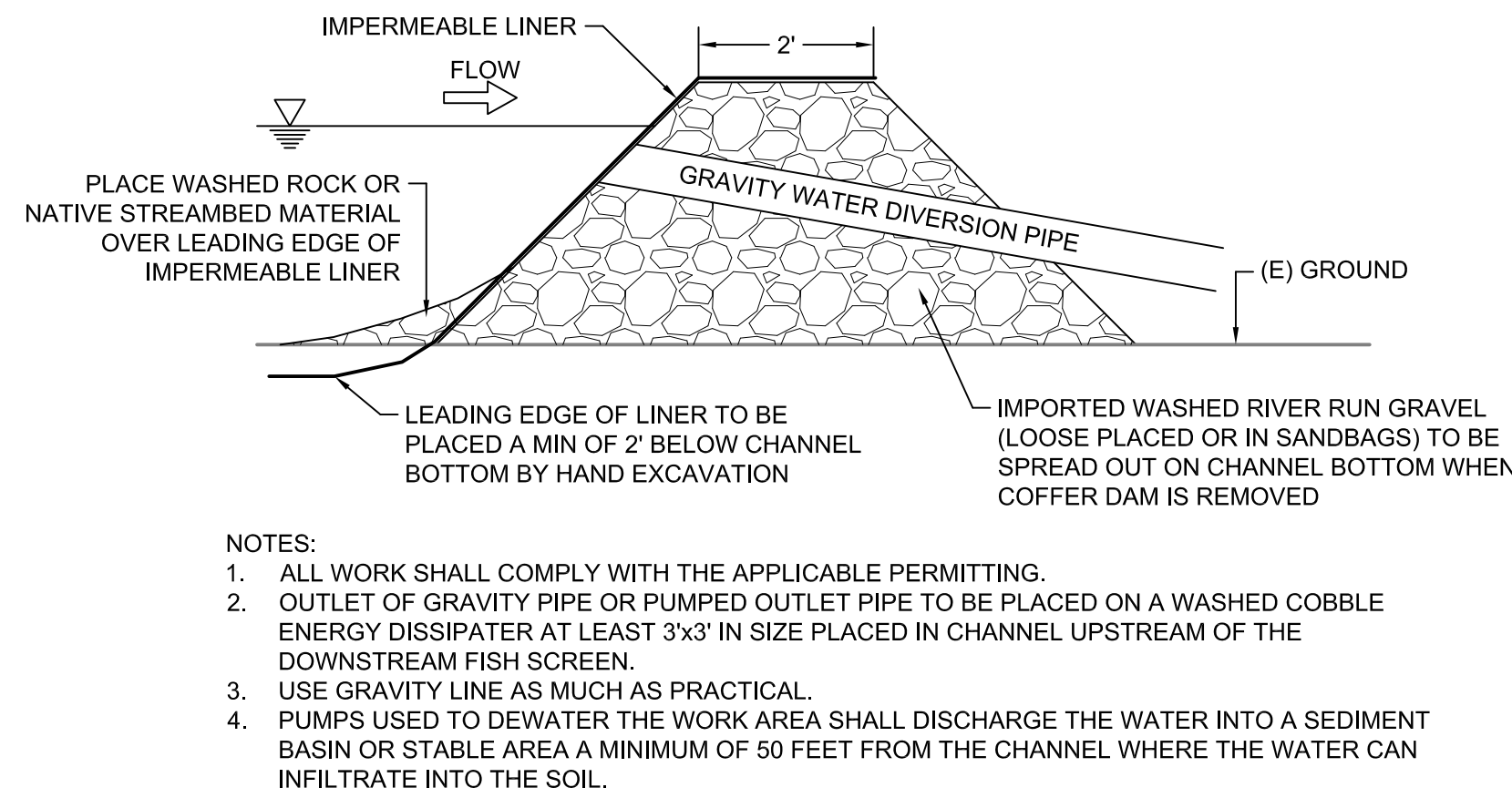
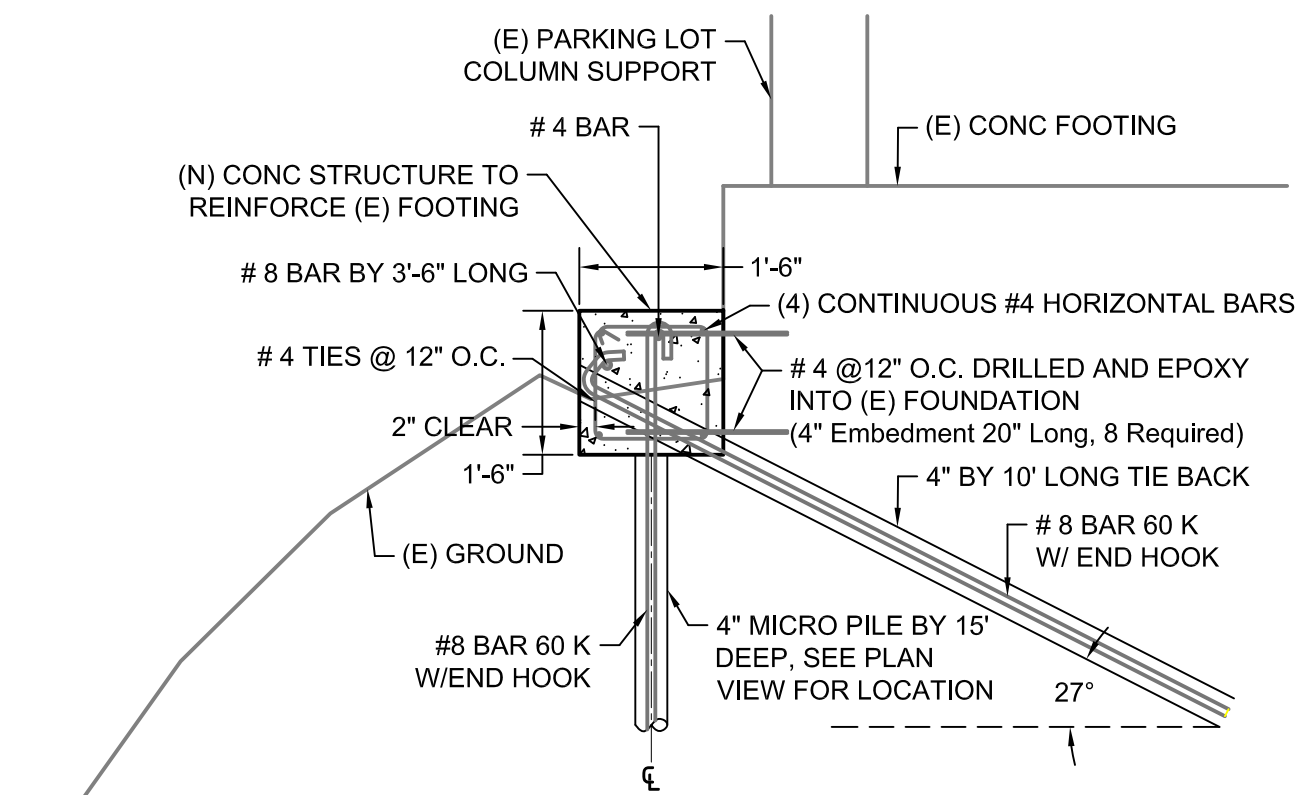
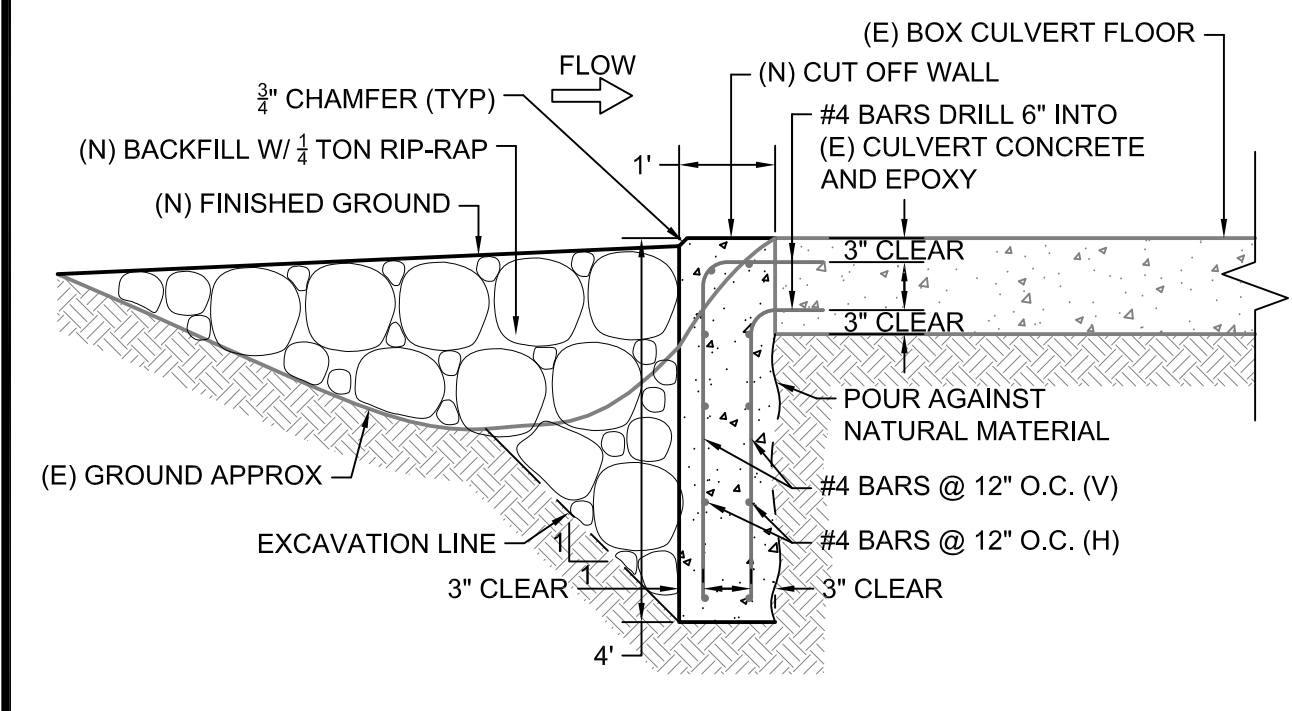
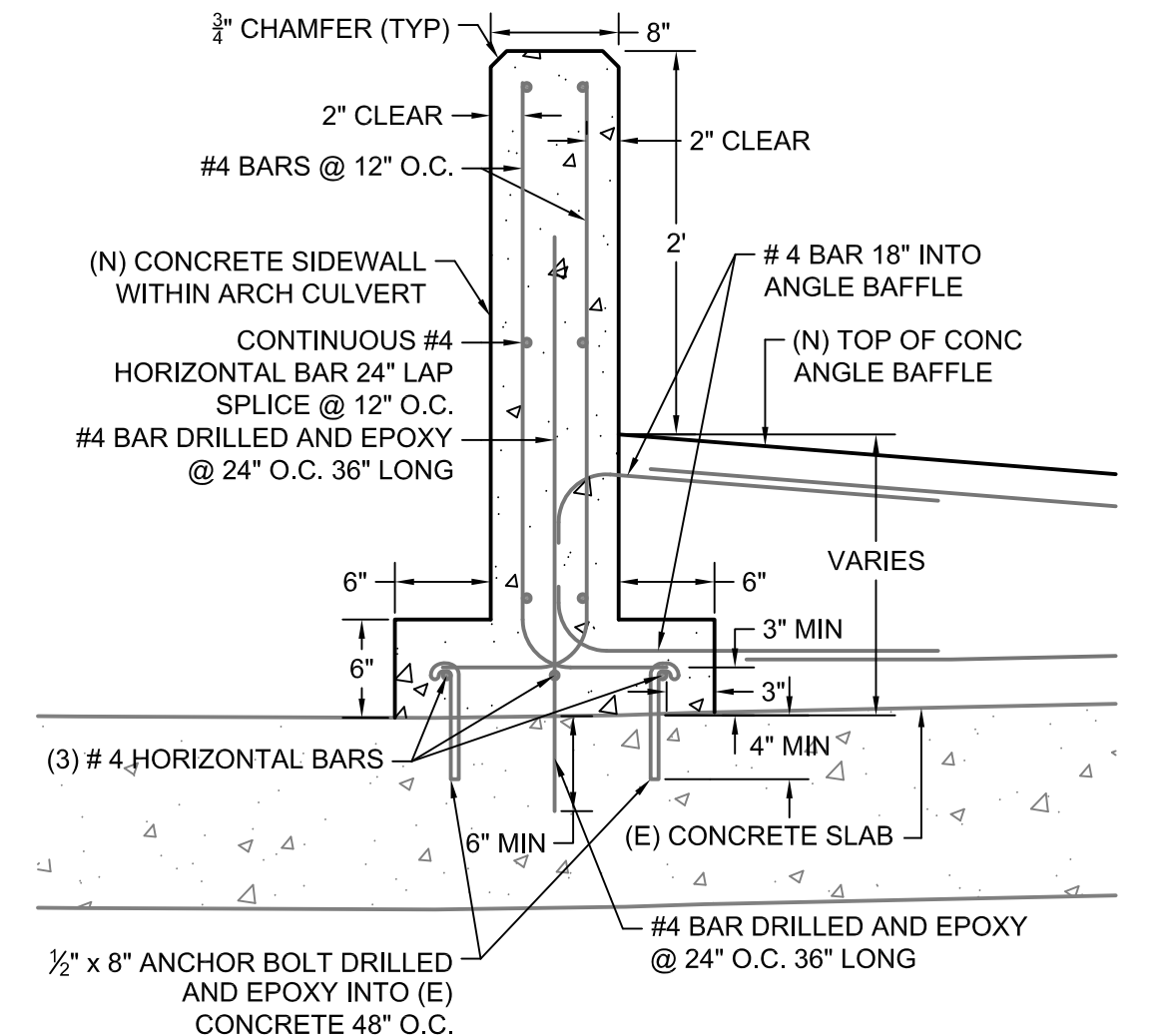
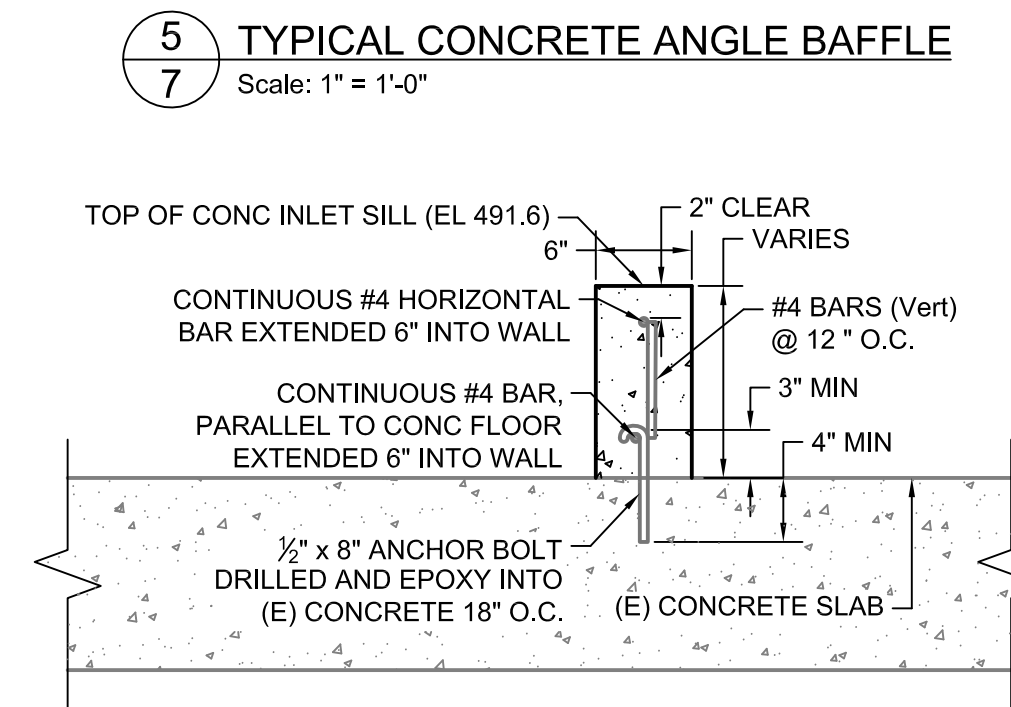
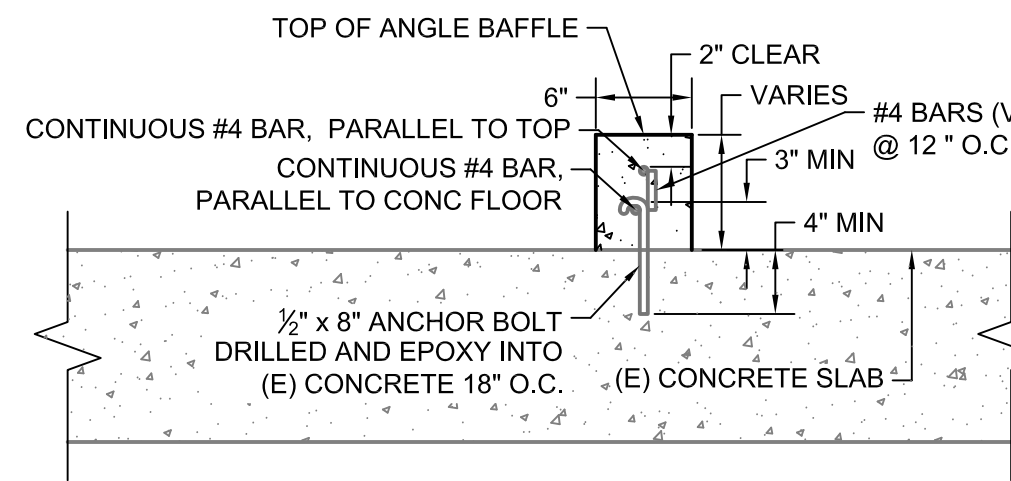
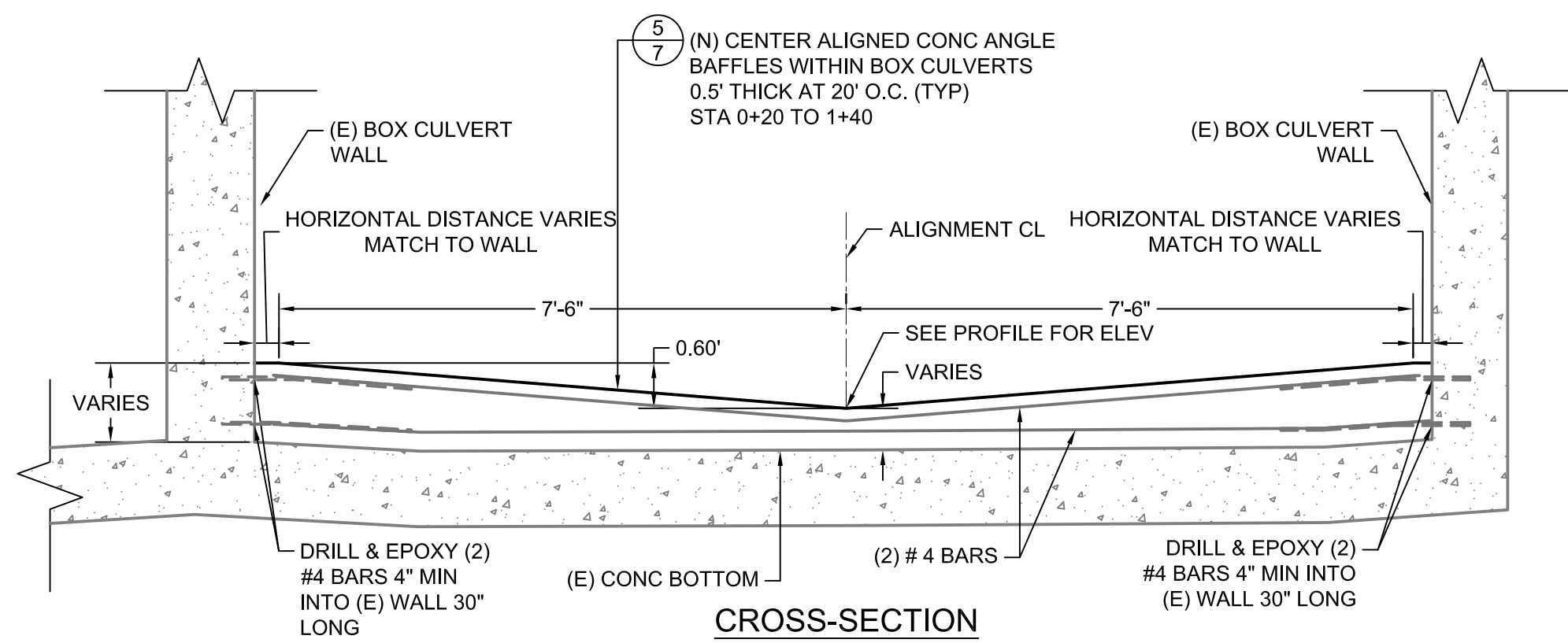
1
7 POOL AND CHUTE STRUCTURE - TYPICAL PROFILES
Scale: 1" = 2'-0"

2
7 12" Ø PILE REINFORCEMENT DETAIL
Scale: 1" = 1'-0"

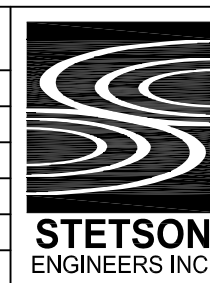
3
7 TYPICAL CONCRETE ANGLE BAFFLE WITHIN ARCH CULVERT
Scale: 1" = 2'-0"



4
7 TYPICAL CONCRETE ANGLE BAFFLE WITHIN BOX CULVERT
Scale: 1" = 2'-0"



DESIGNED:	G.T. M.L.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. D.H.					
CHECKED:	J.D.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



FISH PASSAGE PROJECT
SAN ANSELMO CREEK AT LANSDALE AVE

TYPICALS AND DETAILS

DATE:	DECEMBER 9, 2010
SCALE:	AS INDICATED
PROJECT No.:	2128-002

SHEET
7 OF 7