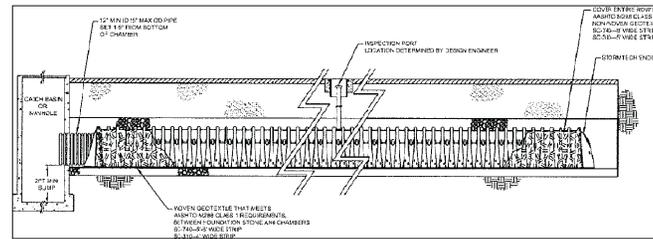


STORMTECH GENERAL NOTES

- STORMTECH LLC (STORMTECH™) REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
- OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEMS CONSTRUCTION. CALL 1-888-892-2694 TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
- STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 36 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 36 INCHES.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
- AASHTO M88 CLASS 2 NON-WOVEN GEOTEXTILE FILTER FABRIC MUST BE USED AS INDICATED IN THE PROJECT PLANS.
- STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
- THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
- STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT 1-888-892-2694 OR VISIT WWW.STORMTECH.COM.



STORMTECH INFILTRATION GALLERY (CONT.)

NIS

1
D-12

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: MBG

CHECKED: SP

ROAD NUMBER: N/A

DATE: 12/07

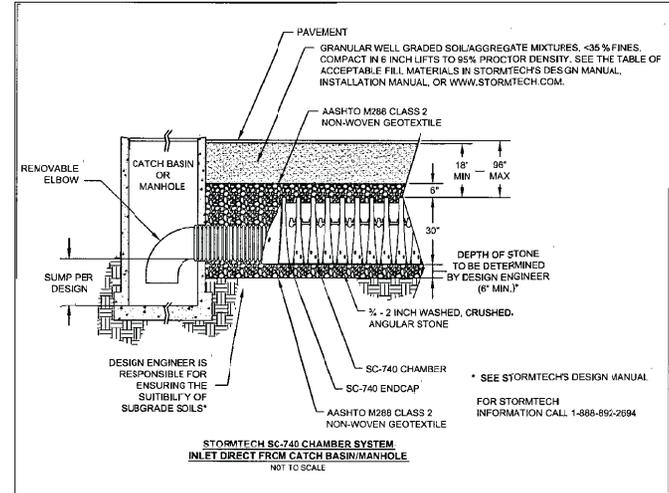
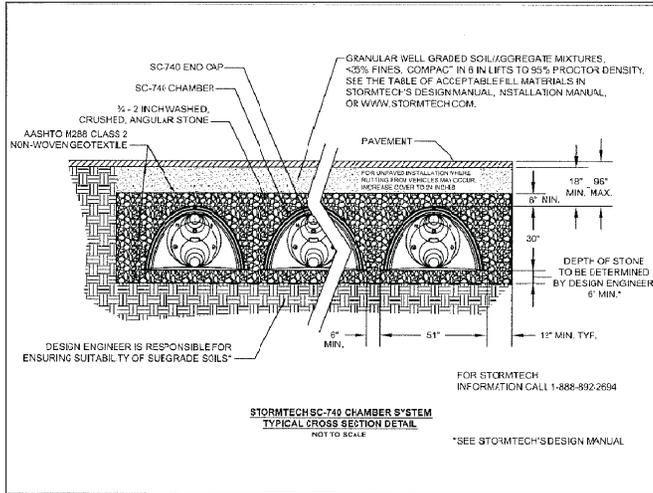


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS



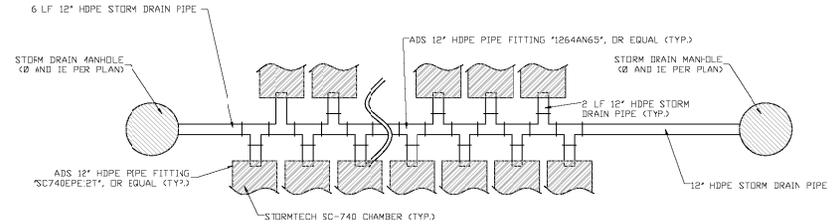
KINGS BEACH WATER QUALITY AND
SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY, CALIFORNIA

SHEET	D-12
PL. NO.	3128703



STORMTECH PRODUCT SPECIFICATIONS

- 1.0 GENERAL
- 1.1 STORMTECH CHAMBERS ARE DESIGNED TO CONTROL STORMWATER RUNOFF, AS A SUBSURFACE RETENTION SYSTEM. STORMTECH CHAMBERS RETAIN AND ALLOW EFFECTIVE INFILTRATION OF WATER INTO THE SOIL. AS A SUBSURFACE DETENTION SYSTEM, STORMTECH CHAMBERS SHOULD NOT ALLOW FOR THE DEFERRED FLOW OF WATER TO AN OUTFALL.
- 2.0 CHAMBER PARAMETERS
- 2.1 THE CHAMBERS SHALL BE INJECTION MOLDED OF POLYPROPYLENE RESIN TO BE INHERENTLY RESISTANT TO ENVIRONMENTAL STRESS CRACKING (ESC) AND TO MAINTAIN ADEQUATE STIFFNESS THROUGH HIGH-RATE TEMPERATURES EXPERIENCED DURING INSTALLATION AND SERVICE.
- 2.2 THE NOMINAL CHAMBER DIMENSIONS OF THE STORMTECH SC-740 SHALL BE 30.0 INCHES TALL, 81.0 INCHES WIDE AND 90.7 INCHES LONG. THE NOMINAL CHAMBER DIMENSIONS OF THE STORMTECH SC-318 SHALL BE 18.0 INCHES TALL, 14.0 INCHES WIDE AND 30.7 INCHES LONG. THE INSTALLED LENGTH OF A JOINED CHAMBER SHALL BE 88.4 INCHES.
- 2.3 THE CHAMBERS SHALL HAVE A CONTINUOUSLY CURVED SECTION PROFILE.
- 2.4 THE CHAMBERS SHALL BE OPEN-BOTTOMED.
- 2.5 THE CHAMBERS SHALL INCORPORATE AN OVERLAPPING CONJUGATION POINT DETAIL TO ALLOW CHAMBER JOINTS OF ALMOST ANY LENGTH TO BE CREATED. THE OVERLAPPING CONJUGATION POINT SYSTEM SHALL BE EFFECTIVE WHILE ALLOWING A CHAMBER TO BE FRAMED TO MATCH ITS OVERALL LENGTH.
- 2.6 THE NOMINAL STORAGE VOLUME OF A JOINED STORMTECH SC-740 CHAMBER SHALL BE 7.8 CUBIC FEET PER CHAMBER WHEN INSTALLED PER STORMTECH'S TYPICAL DETAILS (INCLUDES THE VOLUME OF CRUSHED ANGULAR STONE WITH AN ASSUMED 40% POROSITY). THIS EQUATES TO 2.2 CUBIC FEET OF STORAGE PER SQUARE FOOT OF BED. THE NOMINAL STORAGE VOLUME OF AN INSTALLED STORMTECH SC-318 CHAMBER SHALL BE 3.0 CUBIC FEET PER CHAMBER WHEN INSTALLED PER STORMTECH'S TYPICAL DETAILS (INCLUDES THE VOLUME OF CRUSHED ANGULAR STONE WITH AN ASSUMED 40% POROSITY). THIS EQUATES TO 1.3 CUBIC FEET OF STORAGE PER SQUARE FOOT OF BED.
- 2.7 THE CHAMBERS SHALL HAVE FORTY-EIGHT ORIFICES PENETRATING THE SIDEWALLS TO ALLOW FOR LATERAL CONVEYANCE OF WATER.
- 2.8 THE CHAMBER SHALL HAVE TWO ORIFICES NEAR ITS TOP TO ALLOW FOR EQUALIZATION OF AIR PRESSURE BETWEEN ITS INTERIOR AND EXTERIOR.
- 2.9 THE CHAMBER SHALL HAVE BOTH OF ITS ENDS OPEN TO ALLOW FOR UNIMPEDED HYDRAULIC FLOWS AND VISUAL INSPECTIONS DOWN A ROW'S ENTIRE LENGTH.
- 2.10 THE CHAMBER SHALL HAVE 14 CORRUGATIONS.
- 2.11 THE CHAMBER SHALL HAVE A CIRCULAR, INDENTED, FLAT SURFACE ON THE TOP OF THE CHAMBER FOR AN OPTIONAL 4-INCH INSPECTION PORT OR CLEANOUT.
- 2.12 THE CHAMBER SHALL BE AN AASHTO M286 DESIGNED USING AASHTO METHODS FOR THERMOPLASTIC CURVERS CONTAINED IN THE AASHTO BRIDGE DESIGN SPECIFICATIONS, 2ND EDITION, INCLUDING INTERIM SPECIFICATIONS THROUGH 2007. DESIGN LIVE LOAD SHALL BE THE AASHTO HE20 TRUCK. DESIGN SHALL CONSIDER EARLY AND LIVE LOADS AS APPROPRIATE FOR THE MINIMUM TO MAXIMUM SPECIFIED DEPTH OF FILL.
- 2.13 THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
- 3.0 END CAP PARAMETERS
- 3.1 THE END CAP SHALL BE INJECTION MOLDED OF POLYPROPYLENE RESIN TO BE INHERENTLY RESISTANT TO ENVIRONMENTAL STRESS CRACKING AND TO MAINTAIN ADEQUATE STIFFNESS THROUGH HIGH-TEMPERATURES EXPERIENCED DURING INSTALLATION AND SERVICE.
- 3.2 THE END CAP SHALL BE DESIGNED TO FIT INTO ANY CORRUGATION OF A CHAMBER, WHICH ALLOWS CAPPING A CHAMBER THAT HAS BEEN LENGTH TRIMMED, SEVERING ROWS TO STORAGE BASINS OF VARIOUS LENGTHS.
- 3.3 THE END CAP SHALL HAVE SAW GUIDES TO ALLOW EASY CUTTING FOR VARIOUS DIAMETERS OF PIPE THAT MAY BE USED TO INLET THE SYSTEM.
- 3.4 THE END CAP SHALL HAVE EXCESS STRUCTURAL ADEQUACIES TO ALLOW CUTTING AN ORIFICE OF ANY SIZE AT ANY INVERT ELEVATION.
- 3.5 THE PRIMARY FACE OF AN END CAP SHALL BE CURVED OUTWARD TO RESIST HORIZONTAL LOADS GENERATED NEAR THE EDGES OF BEDS.
- 3.6 THE END CAP SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.



STORMTECH INFILTRATION GALLERY (CONT.)

NIS

1
D-13

REVISION	NUMBER	DATE	DESCRIPTION	BY

DESIGNED:	MBG	DATE:	12/07
CHECKED:	SP	ROAD NUMBER:	N/A
PREPARED UNDER THE SUPERVISION OF:		REGISTERED CIVIL ENGINEER:	
		DATE:	

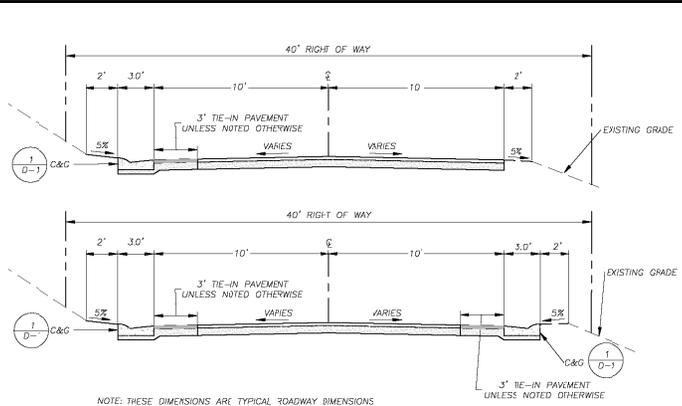


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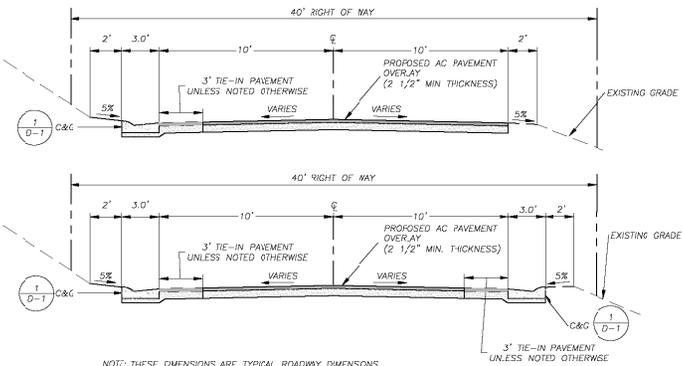
KINGS BEACH WATER QUALITY AND
SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY, CALIFORNIA

SHEET
D-13
JOB NO. 3128703



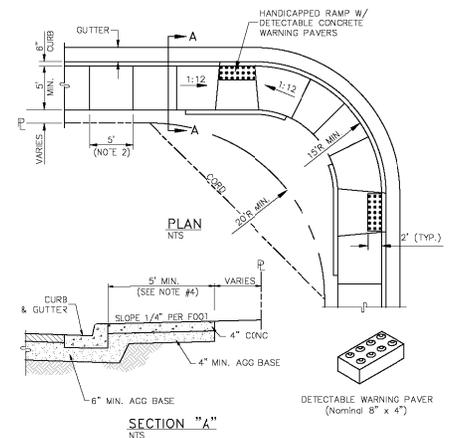
NOTE: THESE DIMENSIONS ARE TYPICAL ROADWAY DIMENSIONS

TYPICAL 20' WIDE ROAD CROSS SECTION 1 D-14



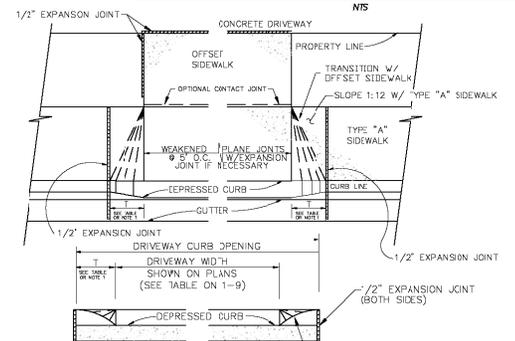
NOTE: THESE DIMENSIONS ARE TYPICAL ROADWAY DIMENSIONS

TYPICAL 20' WIDE ROAD CROSS SECTION (PROPOSED OVERLAY) 2 D-14



NOTE:

- MINIMUM CURB RETURN RADIUS SHALL BE 25 FEET.
- PORTLAND CEMENT CONC. (PCC) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN COMP STRENGTH AT 28 DAYS, MIN 4 BAGS OF CEMENT PER CU.YD. W/MAX WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6%±1.5% SLUMP 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SEC. 202. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

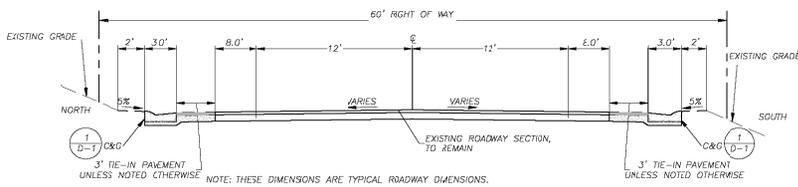


TAPER LENGTH FOR OFFSET SIDEWALK T (FT.)	CURB H.T.
2.5'	6"
3.0'	7"
4.0'	8"
4.5'	9"

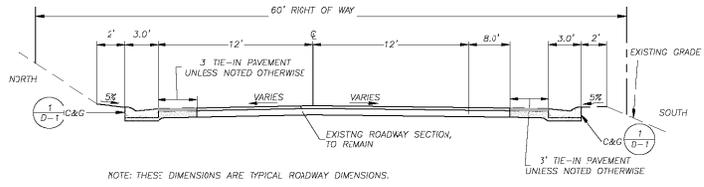
GENERAL NOTES:

- APRON SLOPE 1:50 AND TAPER LENGTH 5 FEET WITH TYPE "A" SIDEWALK.
- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE ENGINEER.
- CONCRETE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.
- COMMERCIAL DRIVEWAYS TO HAVE 6" X 6" 10/10 WIRE MESH EXTENDED INTO GUTTER PAN.
- IF EXPANSION JOINTS EXIST WITHIN 4 FEET OF DRIVEWAY, REMOVE SIDEWALK AND CURB AND GUTTER TO THAT JOINT.
- CONCRETE REMOVAL SHALL BE TO NEAT SAWCUT LINES.
- REMOVE CONCRETE WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXIST. DRIVEWAY TO BE MONOLITHIC TO A.C. LINE.

P.C.C. DRIVEWAY APRON 4 D-14



TYPICAL 40' WIDE ROAD CROSS SECTION (PARKING TWO SIDES) 5 D-14

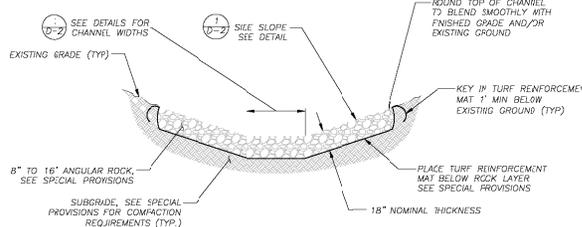
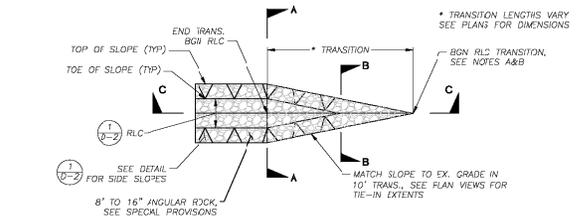


TYPICAL 32' WIDE ROAD CROSS SECTION (ONE SIDE PARKING) 6 D-14

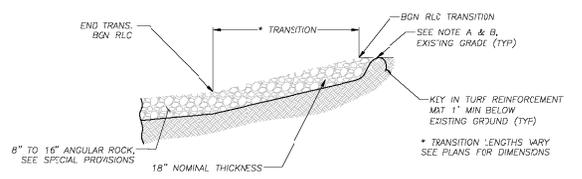
TYPICAL TYPE A SIDEWALK 3 D-14

REVISION	NUMBER	DATE	DESCRIPTION	BY

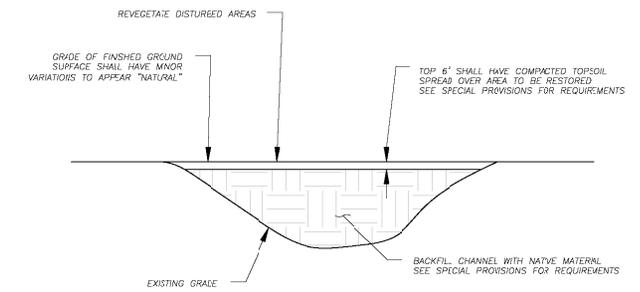
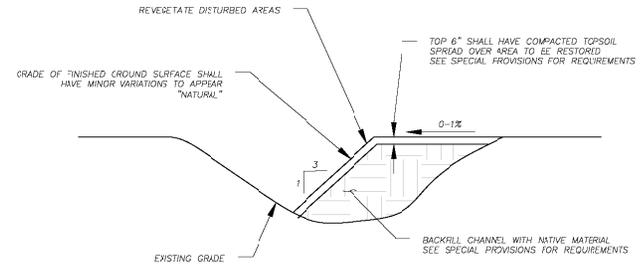
PREPARED UNDER THE SUPERVISION OF:	DESIGNED: MBG	DRAWN: MBG	<p>PLACER COUNTY DEPARTMENT OF PUBLIC WORKS</p>	<p>ENTRIX</p> <p>1048 St. Paul Boulevard South Lake Tahoe, CA 96150 (530) 542-0201 Main</p>	<p>SEIZ IMPROVEMENT PROJECT DETAIL SHEET PLACER COUNTY, CALIFORNIA</p>	
REGISTERED CIVIL ENGINEER	CHECKED: SP	DATE: 12/07				<p>SHEET D-14</p>
DATE:	ROAD NUMBER: N/A					<p>PL. NO. 3128703</p>



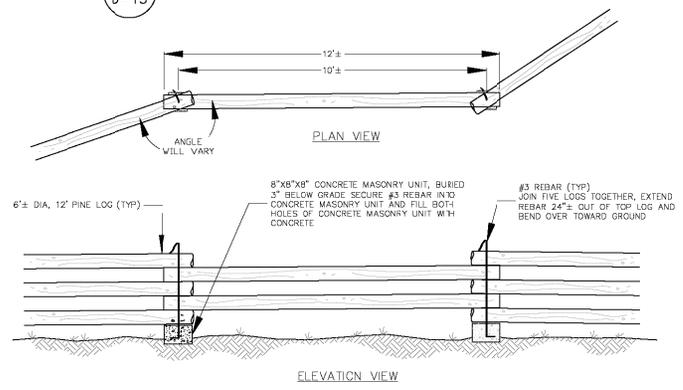
NOTES:
 A. BEGIN/END OF RLC TRANSITION CAN BE AT A SED TRAP (E WINDOW) WITH A END/BEGIN WIDTH OF THE WINDOW OPENING.
 B. BEGIN/END OF RLC TRANSITION CAN BE AT A ROCK INFILTRATION GALLERY. END WIDTH OF TRANSITION (AT GALLERY) SHALL BE A MINIMUM OF 4' WIDE.



BEGIN/END ROCK LINED CHANNEL TRANSITION
 NTS 1
D-15



TREAT AND RESTORE ABANDONED CHANNEL
 NTS 2
D-15



CTC STYLE FENCE (BUCK AND POLE)
 NTS 3
D-15

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: MBG
 DRAWN: MBG
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A

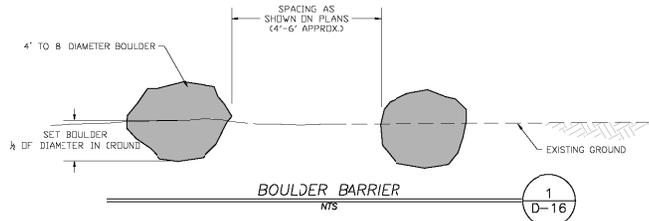


PLACER COUNTY
 DEPARTMENT OF PUBLIC WORKS

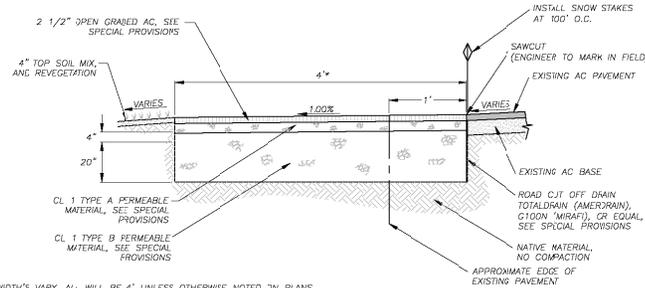
ENTRIX
 1048 St. Rita Boulevard
 South Lake Tahoe, CA 96150
 (530) 546-2251 Main

KINGS BEACH WATER QUALITY AND SEZ IMPROVEMENT PROJECT
DETAIL SHEET
 PLACER COUNTY, CALIFORNIA

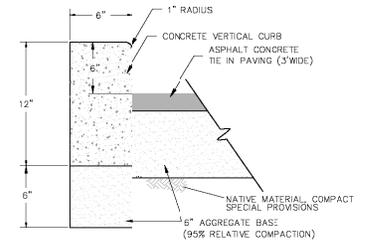
SHEET
 D-15
 R.C. No. 3128703



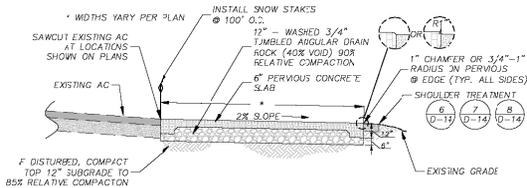
BOULDER BARRIER
NTS
1
D-16



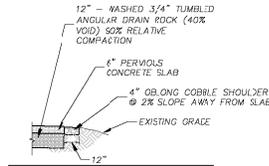
POROUS PAVEMENT (ROAD SHOULDER)
NTS
5
D-16



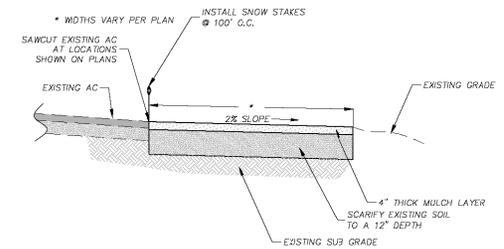
VERTICAL CURB DETAIL
NTS
8
D-16



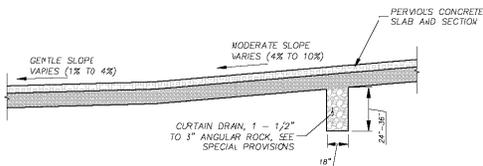
POROUS CONCRETE ROAD SHOULDER
NTS
2
D-16



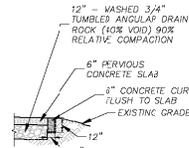
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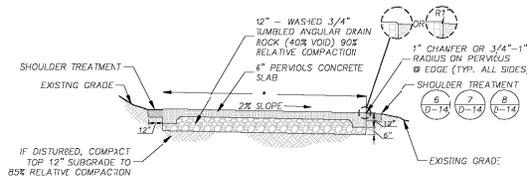
MULCH ROAD SHOULDER
NTS
9
D-16



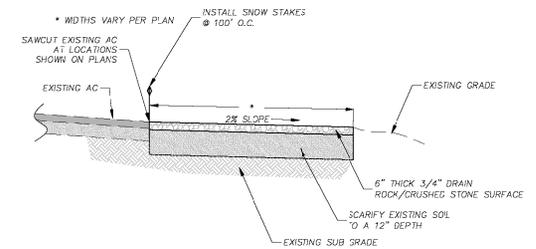
CURTAIN DRAIN
NTS
3
D-16



FLUSH CURB
NTS
7
D-16



FULL TURN DOWN FOOTING
NTS
4
D-16



ROCK/CRUSHED STONE ROAD SHOULDER
NTS
10
D-16

NOTE:
ROAD SHOULDER TREATMENTS ARE SHOWN ON THE PROJECT PLANS AS POROUS CONCRETE ROAD SHOULDER, DETAIL 2

ALL ROAD SHOULDERS CAN BE TREATED BY OTHER MEANS, SUCH AS THE FOLLOWING:

1. VERTICAL CURB 8 D-16
2. ROCK/CRUSH STONE ROAD SHOULDER 10 D-16
3. MULCH ROAD SHOULDER 9 D-16
4. POROUS PAVEMENT 5 D-16

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE: _____

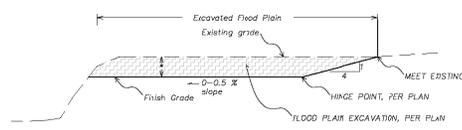
DESIGNED: MBG
DRAWN: MBG
CHECKED: SP
DATE: 12/07
ROAD NUMBER: N/A



PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

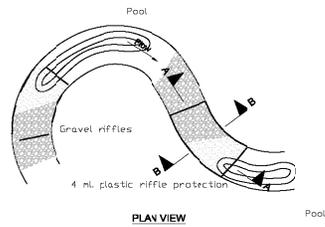
ENTRIX
1048 SH. ROAD BOULDER
SOUTH LAKE TAHOE, CA 96150
(530) 542-0201 Main

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SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY, CALIFORNIA



FLOODPLAIN EXCAVATION
NTS

1
D-17



PLAN VIEW



SECTION A-A

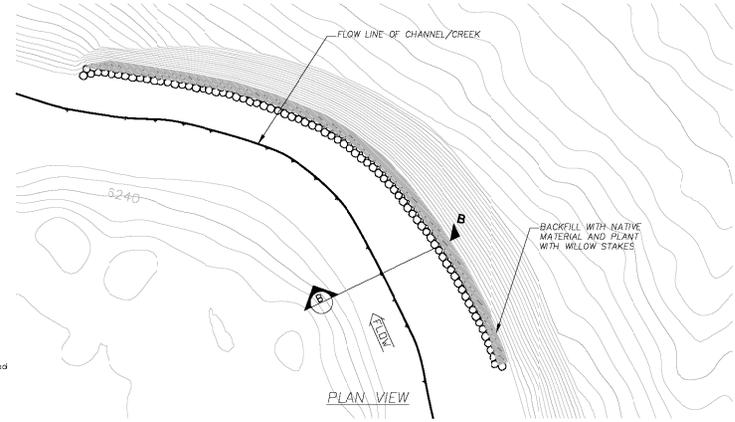
SECTION B-B

Notes: 1) Riffle protection plastic shall be 4 ml. except at jump outlet, where plastic shall be 8 ml.
2) Plastic shall be placed such that all pumped water flows on plastic at toes of riffles.

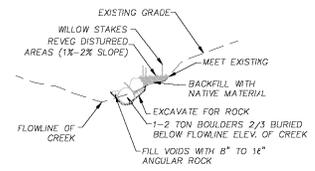
NOT TO SCALE

RIFLE PROTECTION
NTS

3
D-17



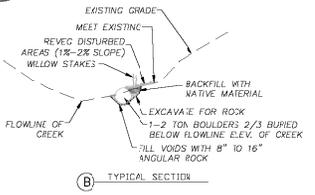
PLAN VIEW



TYPICAL SECTION

BANK TOE PROTECTION
NTS

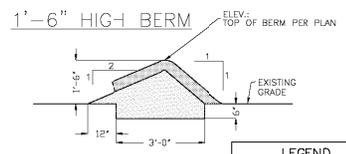
4
D-17



TYPICAL SECTION

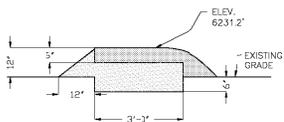
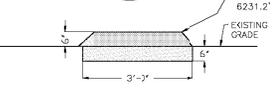
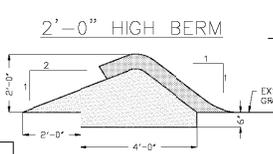
BOULDER PLACEMENT AT BANK BEND
NTS

6
D-17



LEGEND
IMPORT FILL @ 90%
SOD BLANKET

NOTE: Revegetate all denuded areas of berms and cap per revegetation specification.



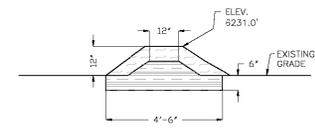
EARTHEN BERMS
NTS

5
D-17

LEGEND

- IMPORT FILL @ 90%
- SOD BLANKET

NOTE: Revegetate all denuded areas of berms and cap per revegetation specification.



EARTH BERM TABLE

HEIGHT	BASE
12"	4'-0"
1'-6"	5'-6"
2'-0"	7'-0"

NOTE: Revegetate all denuded areas of berms and cap per revegetation specification.

LEGEND

- CLAY PLUG @ 90%
- SALVAGED TOP SOIL (SEE REVEGETATION SPECIFICATIONS)

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE: _____

DESIGNED: MBG
DRAWN: MBG
CHECKED: SP
DATE: 12/07
ROAD NUMBER: N/A

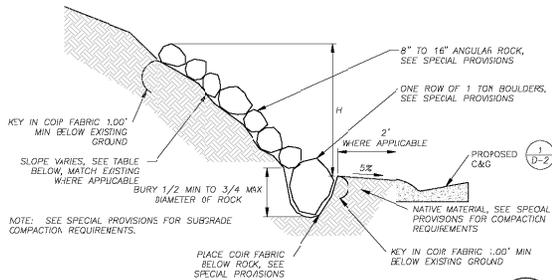


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DEPARTMENT OF PUBLIC WORKS

ENTRIX
1048 St. Paul Boulevard
South Lake Tahoe, CA 96150
(930) 542-0201 Main

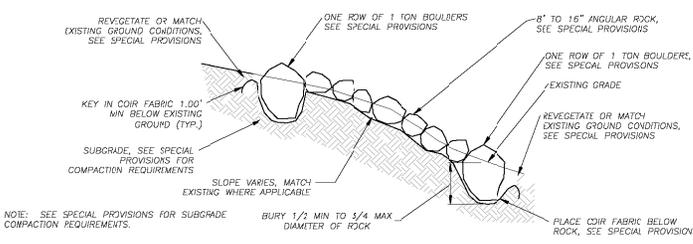
KINGS BEACH WATER QUALITY AND SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY, CALIFORNIA

SHEET
D-17
PLOT No. 3128703



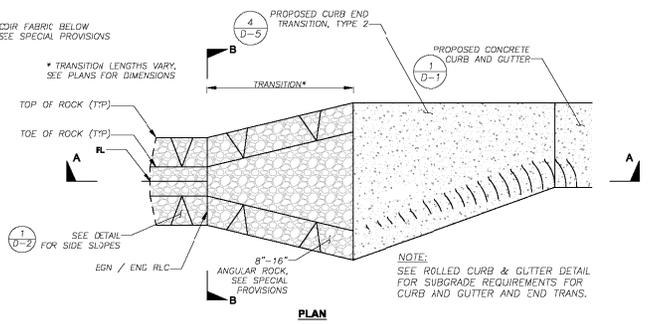
ROCK SLOPE PROTECTION

1
D-18



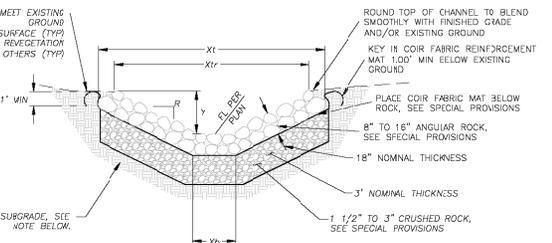
ROCK PROTECTION

2
D-18



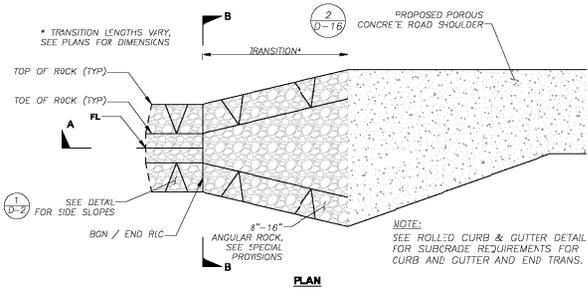
PLAN

4
D-5



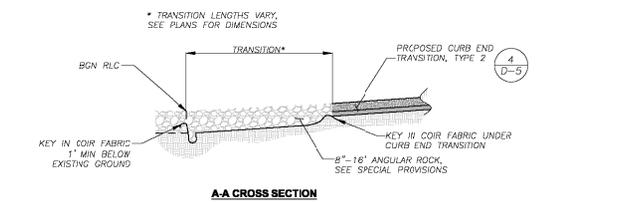
ROCK LINED CHANNEL W/ INFILTRATION GALLERY

3
D-18



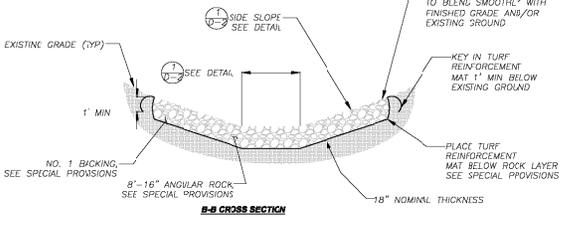
A-A CROSS SECTION

2
D-18



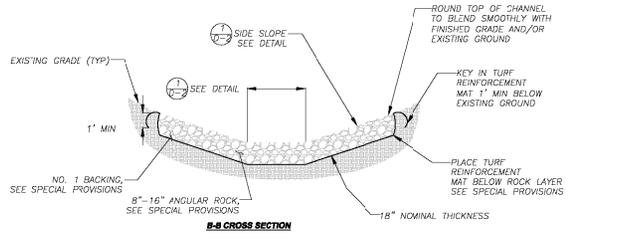
A-A CROSS SECTION

4
D-5



B-B CROSS SECTION

1
D-2



B-B CROSS SECTION

1
D-2

STREET AND STATION**	WIDTH X ^a (EXCAVATION)	WIDTH X _r (ROCK)	WIDTH X _b (EXCAVATION)	DEPTH Y ^a	SLOPE RATIO, R

NOTES:
 1. "X^a" DEPICTS MIN. REQ'D DEPTH OF CHANNEL. "X_r" DEPICTS MIN. REQ'D WIDTH OF CHANNEL AND R DEPICTS SIDE SLOPE. HEIGHT/RATIO MAY VARY DEPENDING ON EXISTING TERRAIN, TO MAINTAIN A 2" SHOULDER AT ROADWAYS. SEE PLAN VIEWS AND CROSS-SECTIONS FOR GRADING LIMITS. ACTUAL DIMENSIONS ARE AS SHOWN ON PLAN AND CROSS-SECTION VIEWS.
 2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
 3. THE DIMENSIONS DEPICTED IN THIS TABLE ARE MINIMUM DIMENSIONS. ACTUAL DIMENSIONS ARE AS SHOWN ON THE PLANS AND CROSS-SECTIONS.

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED: MBG
 DRAWN: MBG
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A

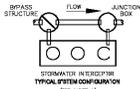
PLACER COUNTY
 DEPARTMENT OF PUBLIC WORKS

ENTRIX
 1048 St. Paul Boulevard
 South Lake Tahoe, CA 96150
 (530) 542-0201 Main

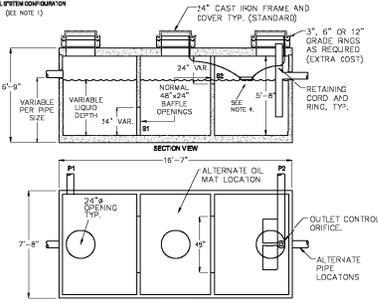
KINGS BEACH WATER QUALITY AND SEZ IMPROVEMENT PROJECT
DETAIL SHEET
 PLACER COUNTY, CALIFORNIA

SHEET
 D-18
 PLOT NO. 3128703

JPHV-20000 HIGH VELOCITY STORMWATER INTERCEPTOR

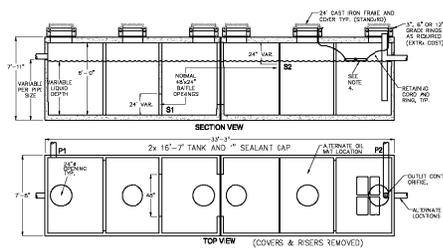


JPHV-4000 HIGH VELOCITY STORMWATER INTERCEPTOR

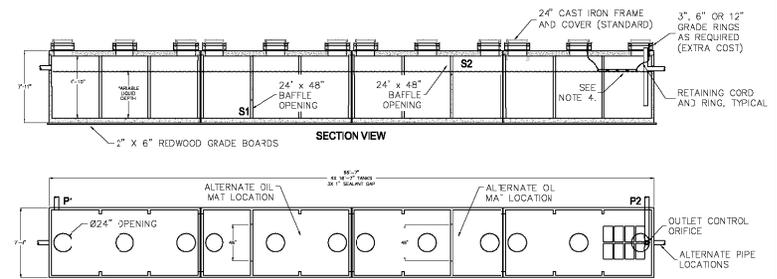


SECTION	TOTAL TANK CAPACITY	MAXIMUM TREATMENT FLOW (G/S)	RECOMMENDED TREATMENT FLOW (G/S)	RECOMMENDED OUTLET BOX SIZE	RECOMMENDED MIN. NO. OF SORBENT MATS	TANK ACCESS COVERS REQUIRED
2xJPHV4000	1,590 GAL.	3.18	2.60	60"Ø ROUND	4	6

JPHV-10000 HIGH VELOCITY STORMWATER INTERCEPTOR



SECTION	TOTAL TANK CAPACITY	MAXIMUM TREATMENT FLOW (G/S)	RECOMMENDED TREATMENT FLOW (G/S)	RECOMMENDED OUTLET BOX SIZE	RECOMMENDED MIN. NO. OF SORBENT MATS	TANK ACCESS COVERS REQUIRED
4xJPHV10000	23,249 GAL.	6.37	5.20	60"Ø ROUND	8	12



SECTION	TOTAL TANK CAPACITY	MAXIMUM TREATMENT FLOW (G/S)	RECOMMENDED TREATMENT FLOW (G/S)	RECOMMENDED OUTLET BOX SIZE	RECOMMENDED MIN. NO. OF SORBENT MATS	TANK ACCESS COVERS REQUIRED
4xJPHV20000	23,249 GAL.	6.37	5.20	60"Ø ROUND	8	12

NOTES:

1. BYPASS STRUCTURE AND JUNCTION BOX SHALL BE SIZED ACCORDING TO PIPE SIZES AND FLOW. ALTERNATIVE CONFIGURATIONS AVAILABLE. CONTACT JENSEN PRECAST FOR MORE INFORMATION.
2. BAFFLE OPENINGS (S1 & S2) SHALL BE SIZED ACCORDING TO FLOW.
3. ALL EXTERNAL PIPING TO BE SUPPLIED BY OTHERS.
4. OIL SORBENT MATS TO BE EQUIPPED WITH RETAINING CORD AND RING, SECURED TO OR UNDER FRAME AND COVER, FOR HAND ACCESS BY OTHERS.
5. DESIGN LOAD: 11-20 TRAFFIC FROM 1" TO 6" OF COVER. FOR OTHER DEPTHS, SPECIAL LOADINGS, AND COMPLETE DESIGN INFORMATION, CONTACT JENSEN PRECAST.
6. MINIMUM GROSS TREATMENT HAZEN'S SURFACE AREA LOADING RATE (SALR) SHALL NOT BE GREATER THAN SIX (6) GALLONS PER MINUTE PER SQUARE FOOT. THE SALR SHALL BE CALCULATED BY DIVIDING THE TREATMENT FREE SURFACE AREA IN SQUARE FEET BY THE DESIGN FLOW RATE IN GALLONS PER MINUTE. NO EXCEPTIONS SHALL BE ALLOWED.

6/14/05
JPHV10000_C.dwg
© 2005 Jensen Precast

NOTE:
SEDIMENT VAULTS SHOWN ON THIS SHEET ARE AS MANUFACTURED BY JENSEN PRECAST, AS AN EXAMPLE ONLY. SEDIMENT VAULTS MAY BE CONSTRUCTED BY AN EQUIVALENT MANUFACTURER, TO THE SAME STANDARDS, SIZES, SPECIFICATIONS AND MATERIAL PORTRAYED IN THESE DETAILS.

SEDIMENT VAULTS
NTS

1
0-19

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:

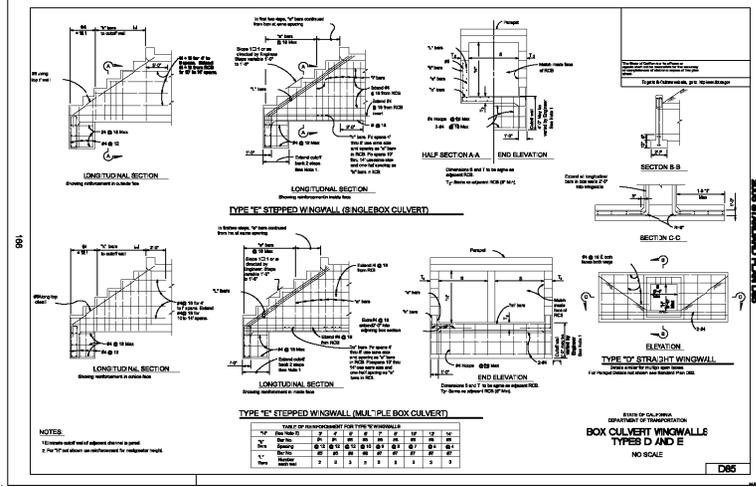
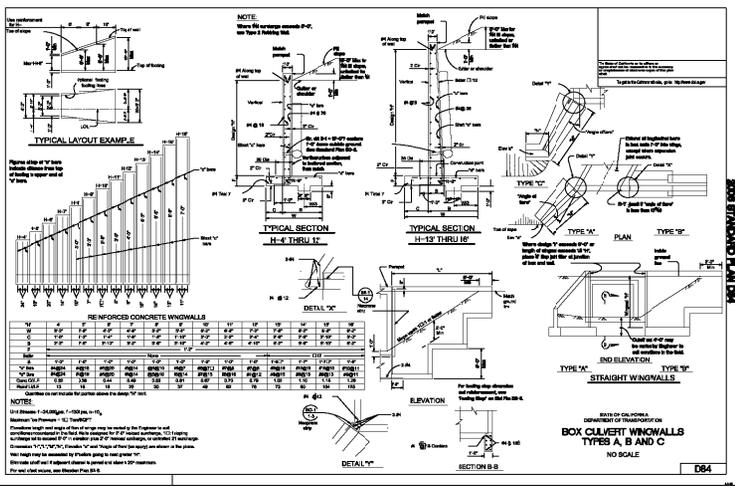
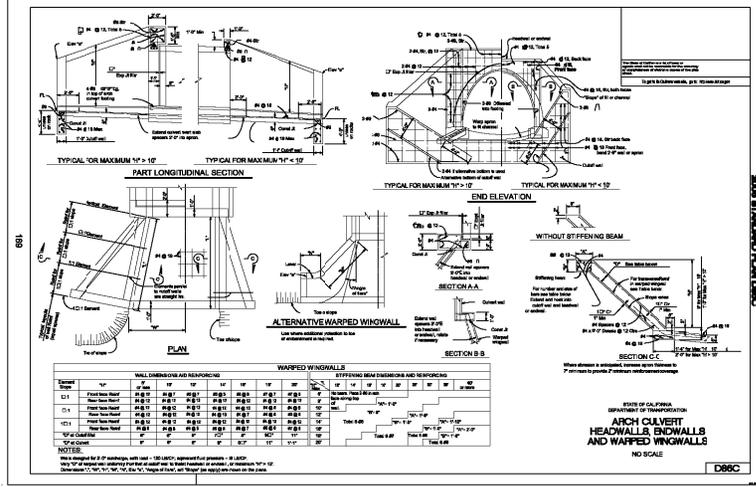
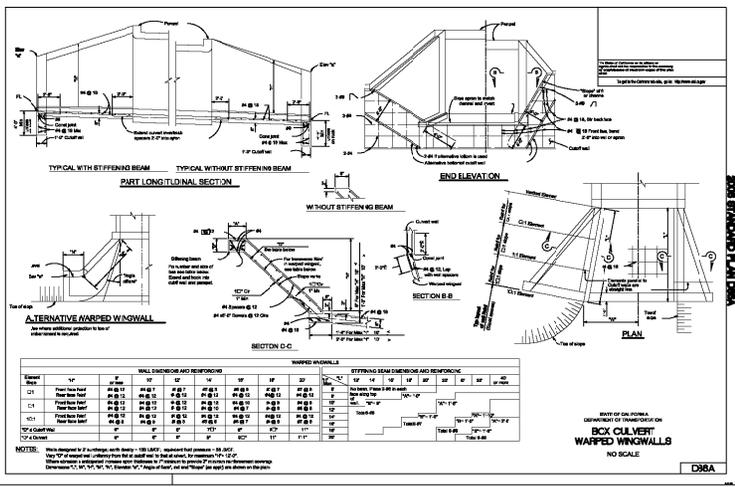
DESIGNED: MBG
CHECKED: SP
DATE: 12/07
ROAD NUMBER: N/A

PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

KINGS BEACH WATER QUALITY AND
SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY, CALIFORNIA

ENTRIX
1048 St. Paul Boulevard
South Lake Tahoe, CA 96150
(530) 542-0201 Main

SHEET
D-19
SHEET NO. 3128703



BOX CULVERT HEADWALL, ENDWALLS & WINGWALLS
1
D-20

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE: _____

DESIGNED: MBG
DRAWN: MBG
CHECKED: SP
DATE: 12/07
ROAD NUMBER: N/A

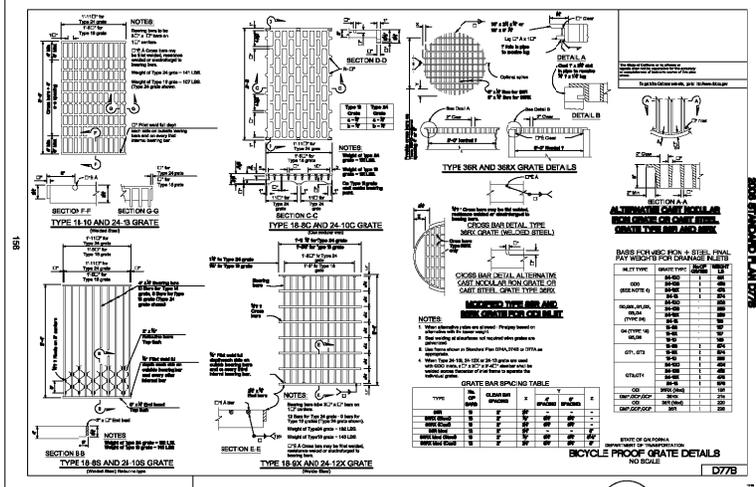


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

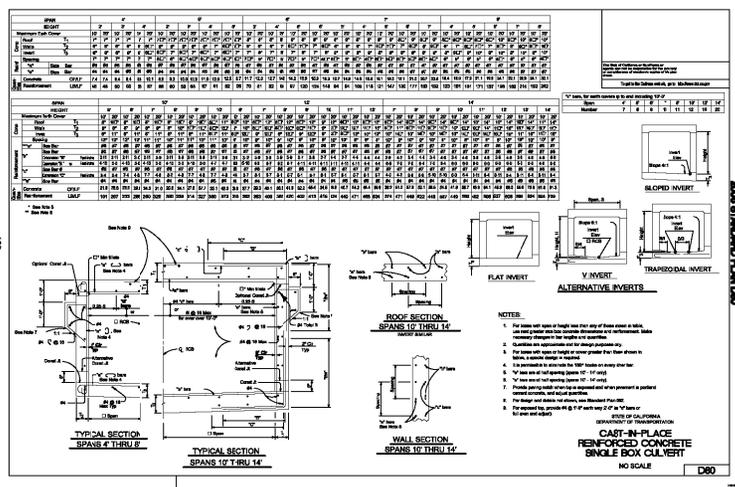
ENTRIX
1048 Elk Run Boulevard
South Lake Tahoe, CA 96150
(530) 542-0251 Main

KINGS BEACH WATER QUALITY AND SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY CALIFORNIA

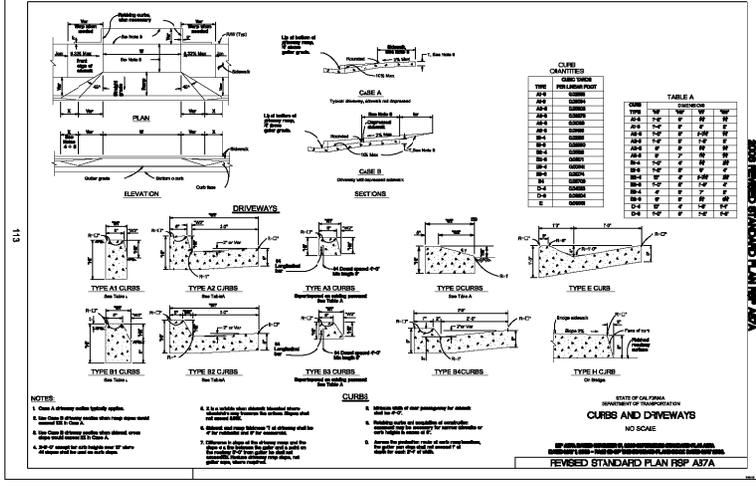
SHEET D-20
KPL No. 3128703



CALTRANS STANDARD BICYCLE PROOF GRATE
NTS
1
D-21



CALTRANS STANDARD CIP REINFORCED BOX CULVERT
NTS
2
D-21



CALTRANS STANDARD CURBS AND DRIVEWAYS
NTS
3
D-21

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE: _____

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CHECKED: SP
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ROAD NUMBER: N/A

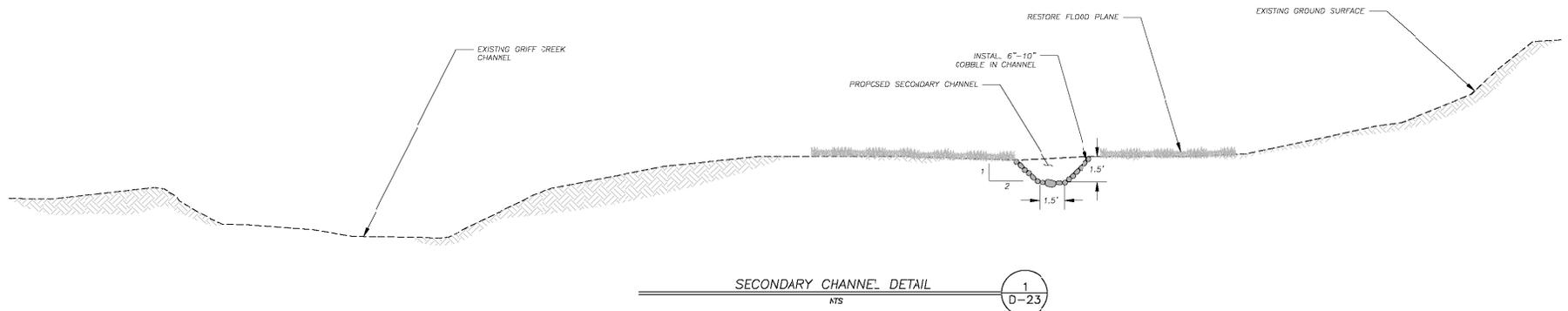


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS



KINGS BEACH WATER QUALITY AND
SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY CALIFORNIA

SHEET
D-21
PROJECT NO. 3128703



SECONDARY CHANNEL DETAIL

NTS

1
D-23

REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:

REGISTERED CIVIL ENGINEER

DATE: _____

DESIGNED:	MBG	DRAWN:	MBG
CHECKED:	SP	DATE:	12/07
ROAD NUMBER:	N/A		

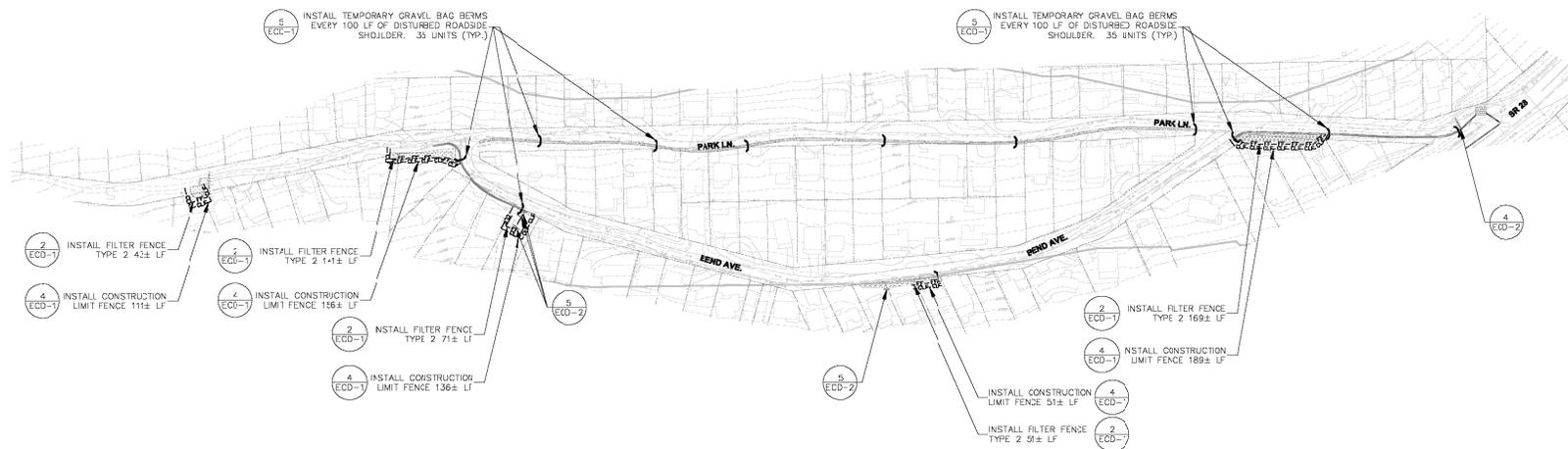


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

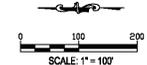


KINGS BEACH WATER QUALITY AND
SEZ IMPROVEMENT PROJECT
DETAIL SHEET
PLACER COUNTY, CALIFORNIA

SHEET
D-23
PLOT No. 3128703



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NOT FOR CONSTRUCTION



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PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: LKR
 DRAWN: LKR
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A

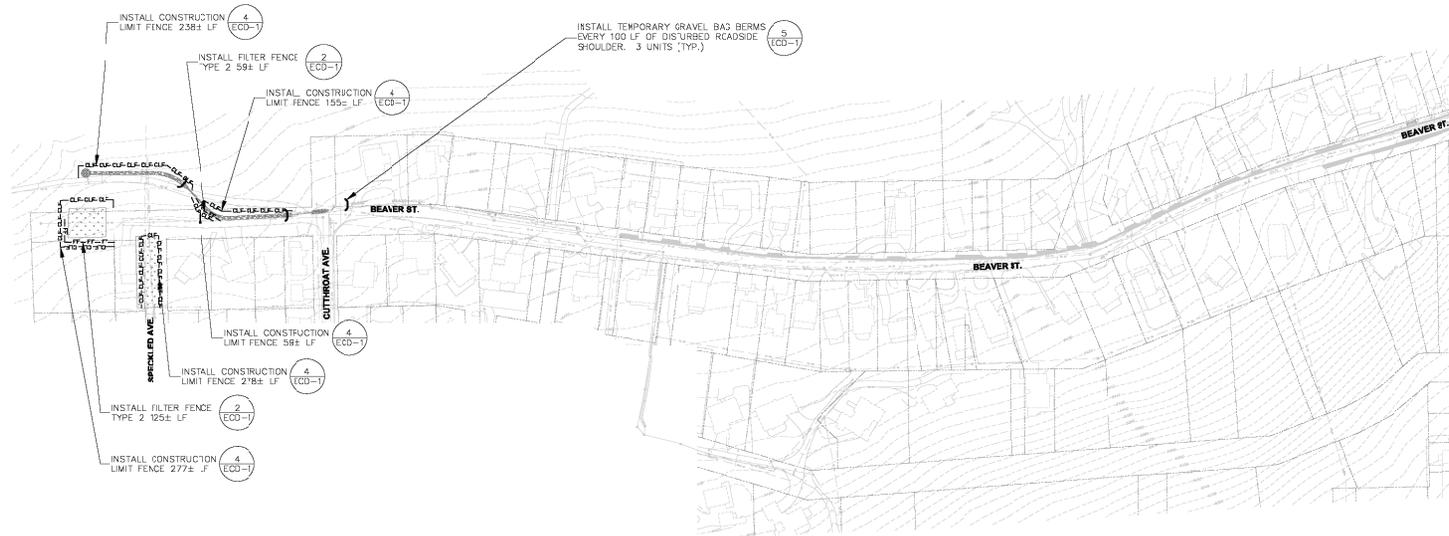


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

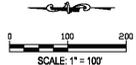
ENTRIX
 1048 8th Street
 South Lake Tahoe, CA 96150
 (530) 542-0201 Main

KINGS BEACH WATER QUALITY AND SEZ IMPROVEMENT
 PROJECT
 TEMPORARY EROSION CONTROL - PARK WATERSHED
 PLACER COUNTY, CALIFORNIA

SHEET
 EC-P1
 PLOT No. 3128703



25% DESIGN PLANS
NOT FOR CONSTRUCTION



REVISION	NUMBER	DATE	DESCRIPTION	BY

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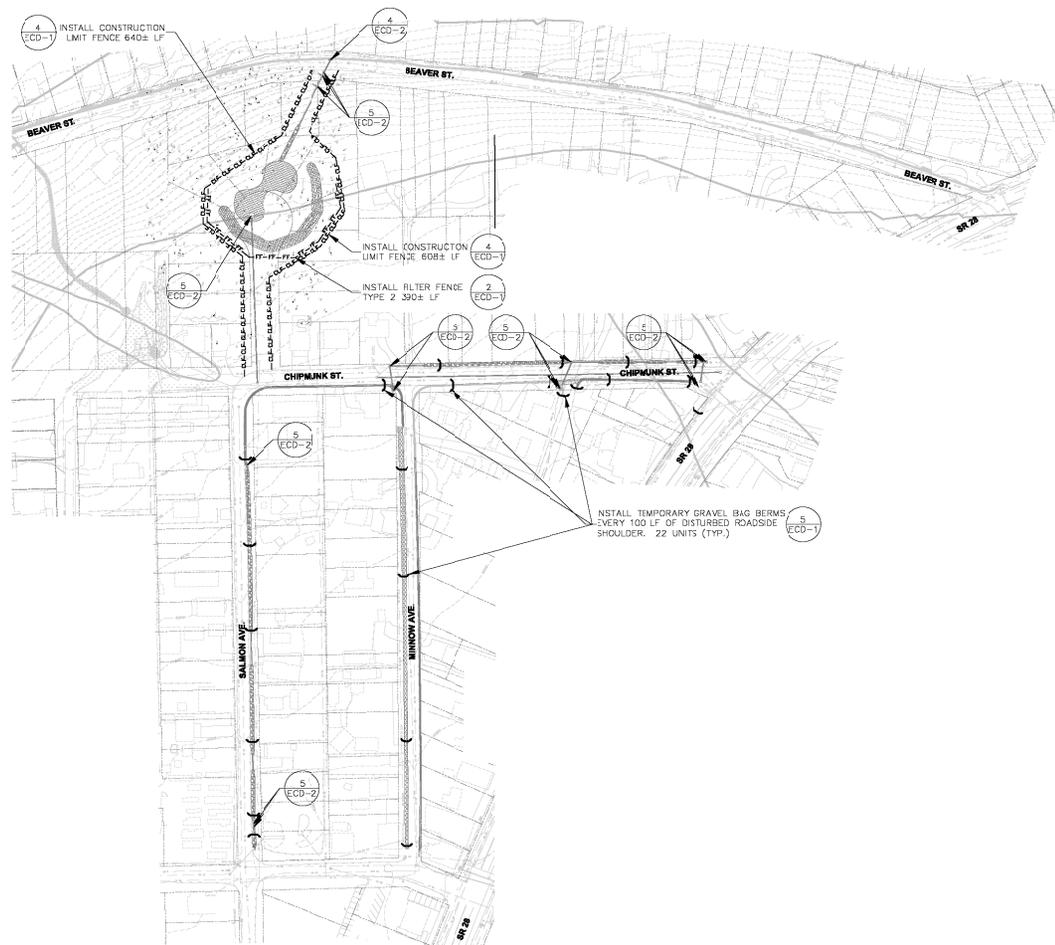


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

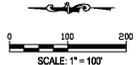
ENTRIX
 1048 BR. RAIL BOULEVARD
 SOUTH LAKESIDE, CALIFORNIA 95676
 (916) 543-6001 Main

KINGS BEACH
 WATERSHED IMPROVEMENT PROJECT
 TEMPORARY EROSION CONTROL - CHIPMUNK WATERSHED
 PLACER COUNTY, CALIFORNIA

SHEET
 EC-CH1
 P.O. No. 3128703



25% DESIGN PLANS
NOT FOR CONSTRUCTION



REVISION	NUMBER	DATE	DESCRIPTION	BY

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REGISTERED CIVIL ENGINEER
DATE: _____

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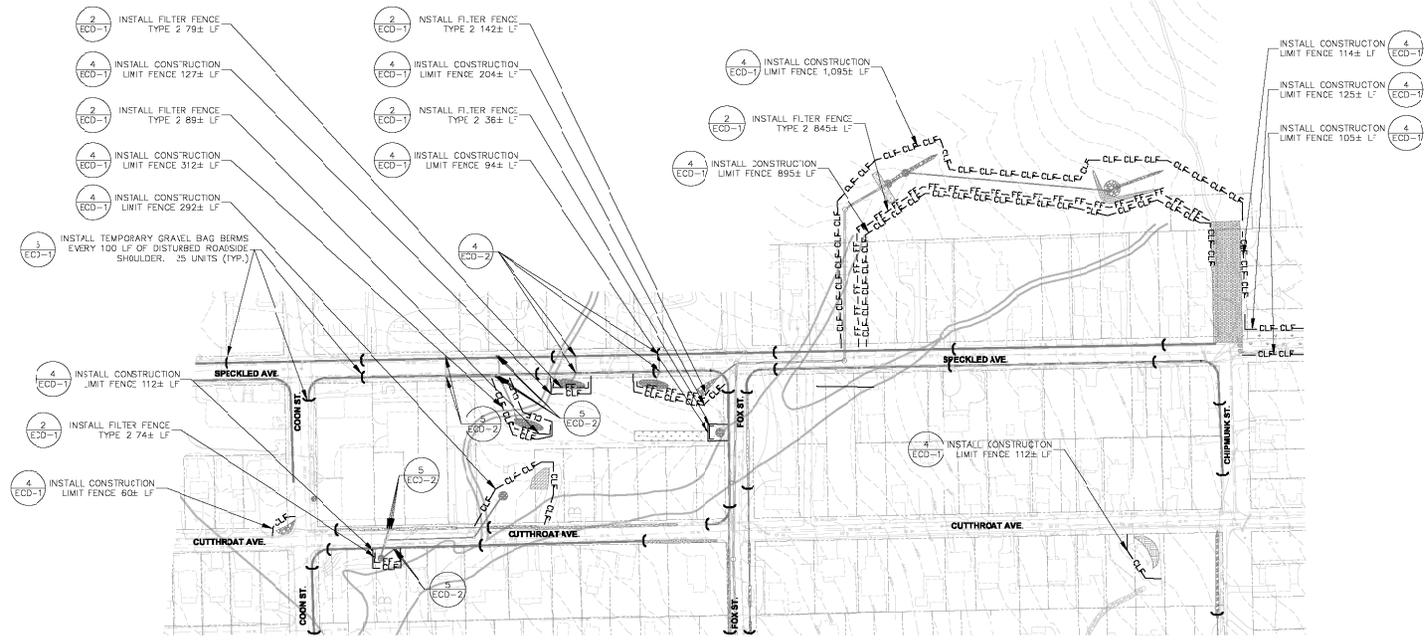


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

ENTRIX
1048 St. Paul Boulevard
South Lake Tahoe, CA 96150
(530) 542-6201 Main

KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - CHIPMUNK WATERSHED
PLACER COUNTY, CALIFORNIA

SHEET
EC-CH2
SHEET No. 3128703



25% DESIGN PLANS
NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY

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 DATE: _____

DESIGNED: LKR
 DRAWN: LKR
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A

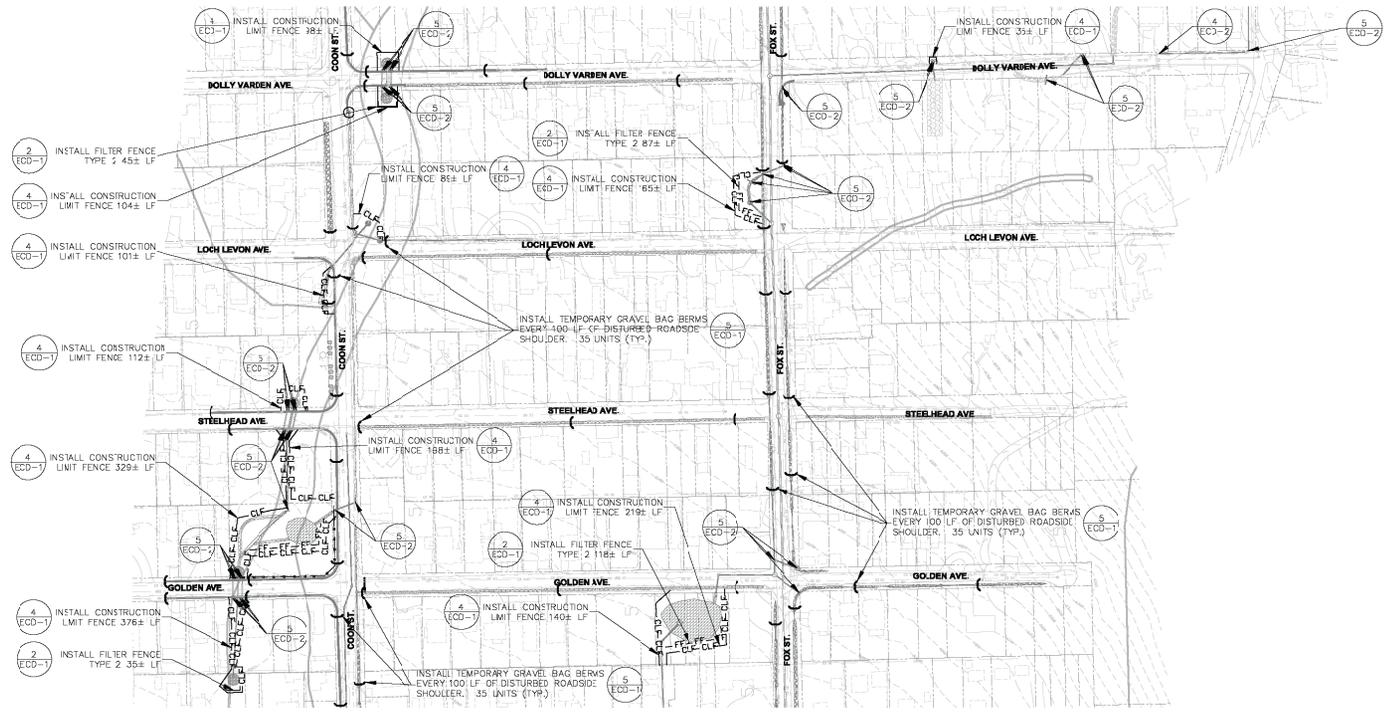


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

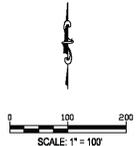
ENTRIX
 1048 St. Rose Boulevard
 South Lake Tahoe, CA 96150
 (930) 542-0201 Main

**KINGS BEACH
 WATERSHED IMPROVEMENT PROJECT
 TEMPORARY EROSION CONTROL - COON WATERSHED
 PLACER COUNTY, CALIFORNIA**

SHEET
EC-C1
 PLOT No. 3128703



25% DESIGN PLANS
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REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE:

DESIGNED: LKR
DRAWN: LKR
CHECKED: SP
DATE: 12/07
ROAD NUMBER: N/A

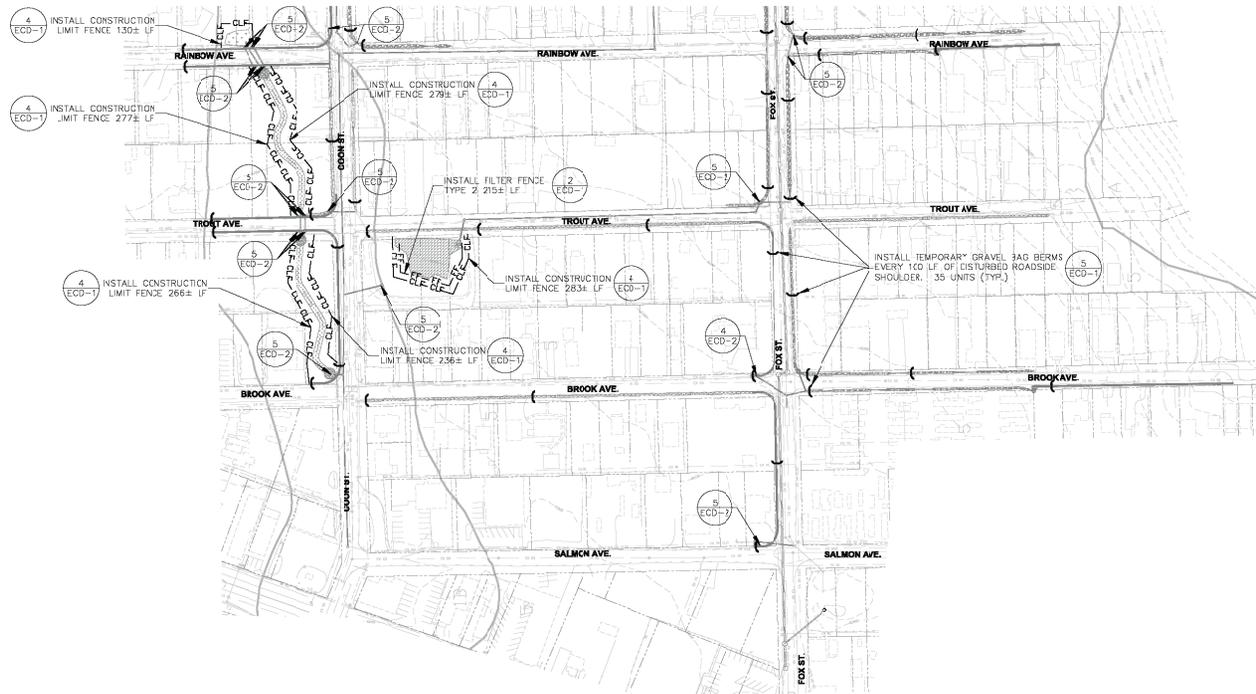


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

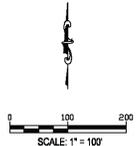
ENTRIX
1048 BR. RAIL BOULEVARD
SOUTH LAKESIDE, CALIFORNIA 95676
(916) 542-6001 Main

**KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - COON WATERSHED
PLACER COUNTY, CALIFORNIA**

SHEET
EC-C2
SHEET No. 3128703



25% DESIGN PLANS
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REVISION	NUMBER	DATE	DESCRIPTION	BY

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REGISTERED CIVIL ENGINEER
DATE: _____

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DRAWN: LKR
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DATE: 12/07
ROAD NUMBER: N/A

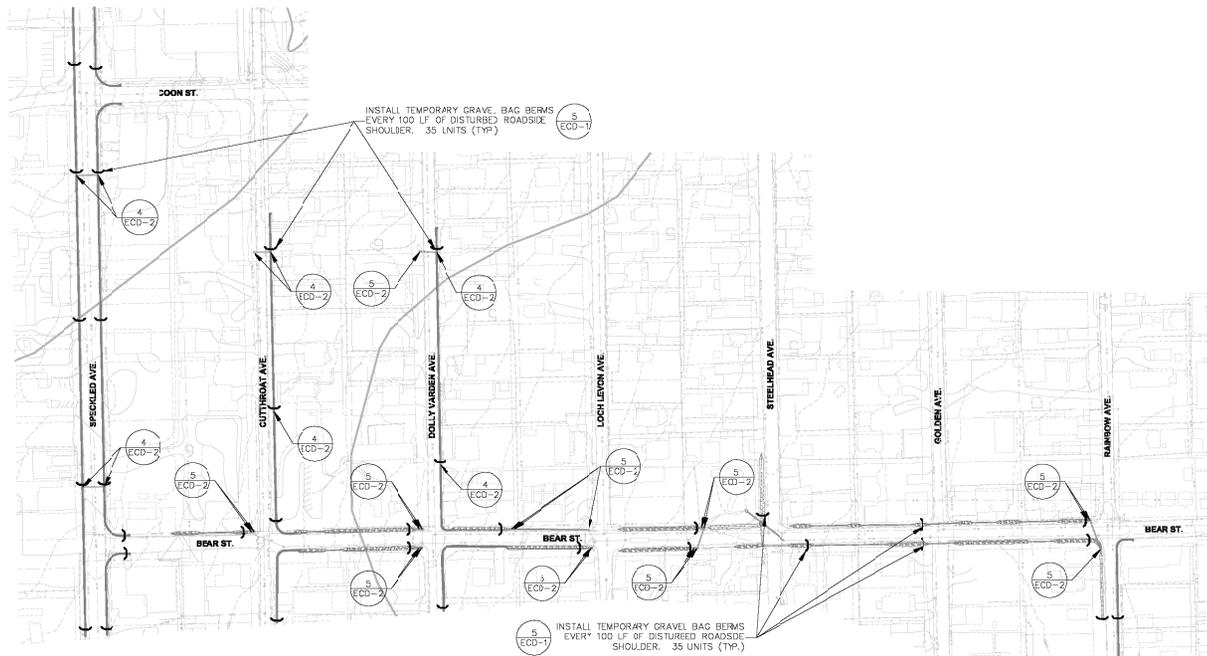


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

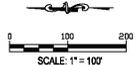
ENTRIX
1048 8th Row Boulevard
South Lake Tahoe, CA 96150
(930) 542-6001 Main

**KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - COON WATERSHED
PLACER COUNTY, CALIFORNIA**

SHEET
EC-C3
SHEET No. 3128703



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REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
REGISTERED CIVIL ENGINEER
DATE: _____

DESIGNED: LKR
DRAWN: LKR
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DATE: 12/07
ROAD NUMBER: N/A

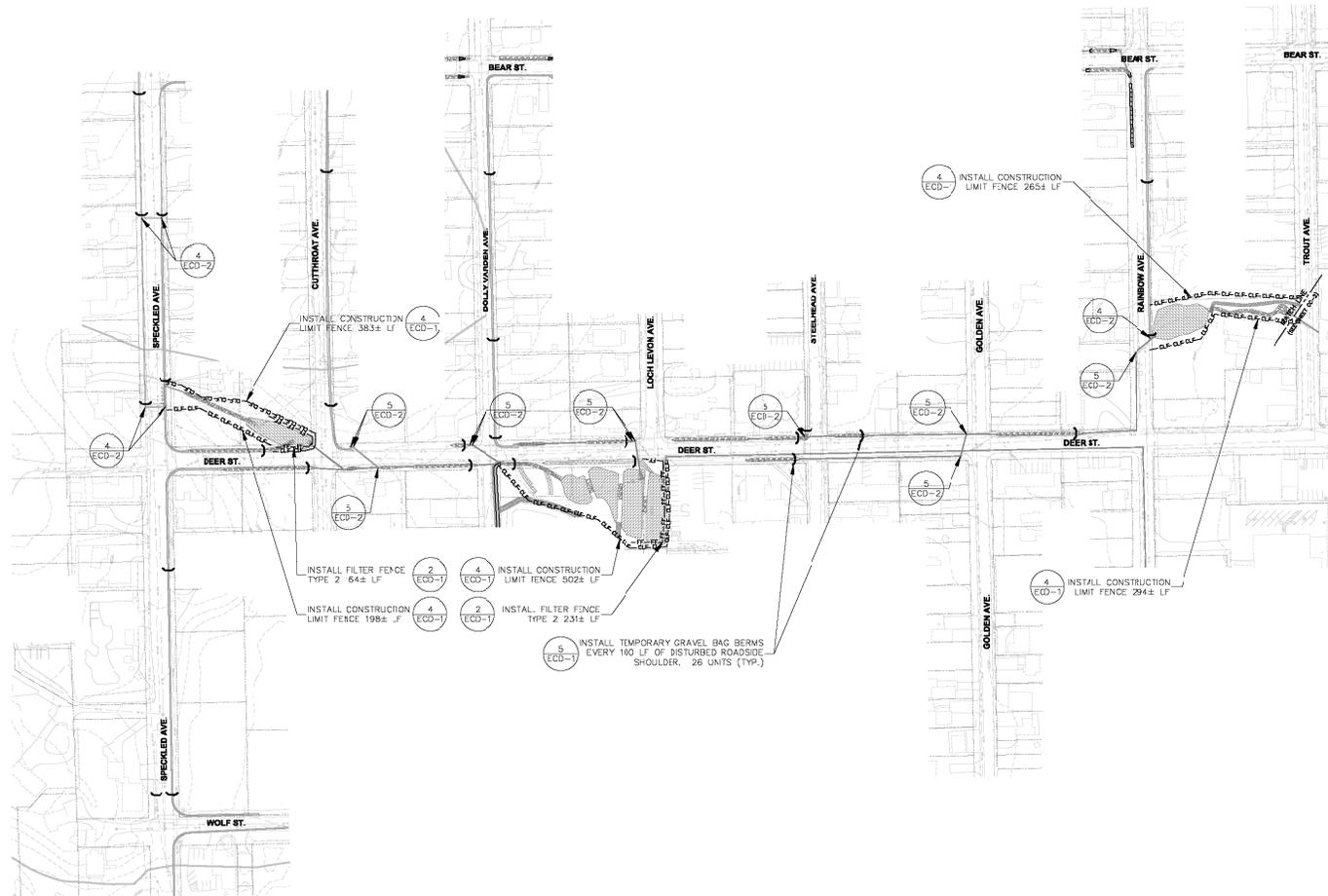


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

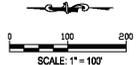
ENTRIX
1048 8th St. Sacramento
South Lake Tahoe, CA 96150
(930) 543-6001 Main

**KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - BEAR WATERSHED
PLACER COUNTY, CALIFORNIA**

SHEET
EC-B1
P.O. No. 3128703



25% DESIGN PLANS
NOT FOR CONSTRUCTION



REVISION	NUMBER	DATE	DESCRIPTION	BY

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REGISTERED CIVIL ENGINEER
DATE: _____

DESIGNED: LKR
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DATE: 12/07
ROAD NUMBER: N/A

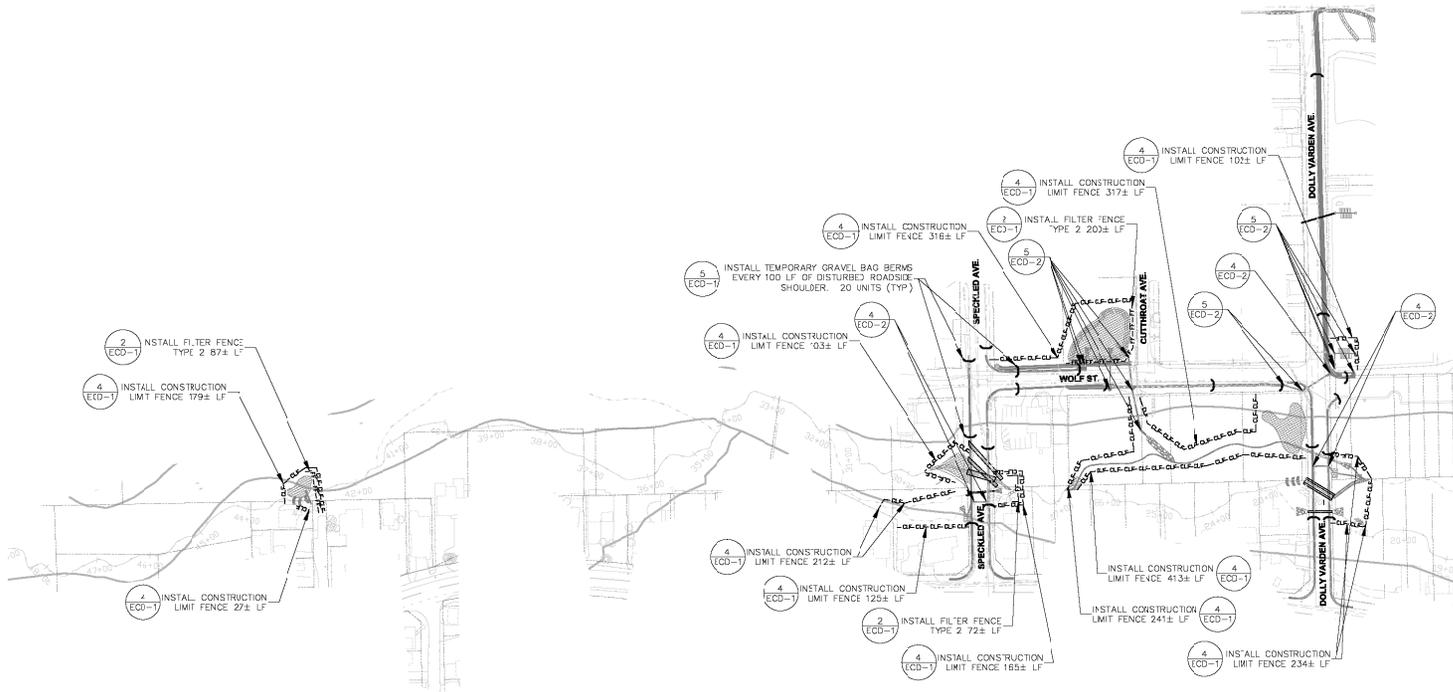


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

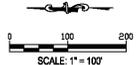
ENTRIX
1048 BR. RISE BOULEVARD
SOUTH LAKELAND, CALIFORNIA 95150
(916) 542-0201 Main

**KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - DEER WATERSHED
PLACER COUNTY, CALIFORNIA**

SHEET
EC-DE1
SHEET No. 3128703



25% DESIGN PLANS
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REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: LKR
 DRAWN: LKR
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A

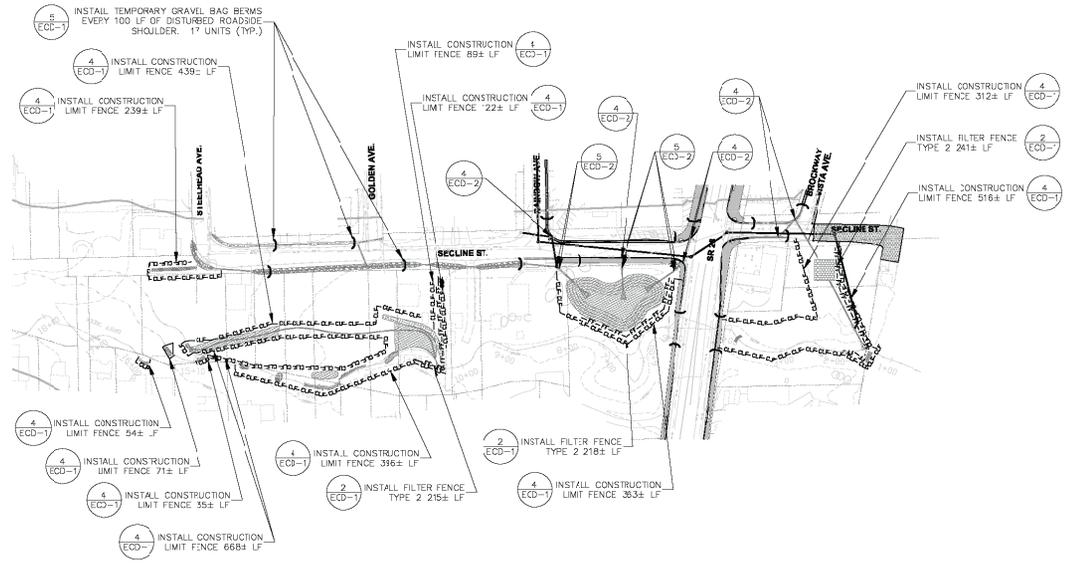


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

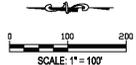
ENTRIX
 1048 BR. Run Boulevard
 South Lake Tahoe, CA 96150
 (930) 542-0201 Main

KINGS BEACH
 WATERSHED IMPROVEMENT PROJECT
 TEMPORARY EROSION CONTROL - GRIFF WATERSHED
 PLACER COUNTY, CALIFORNIA

SHEET
 EC-G1
 PLOT No. 3128703



25% DESIGN PLANS
NOT FOR CONSTRUCTION



REVISION	NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: LKR
 DRAWN: LKR
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A



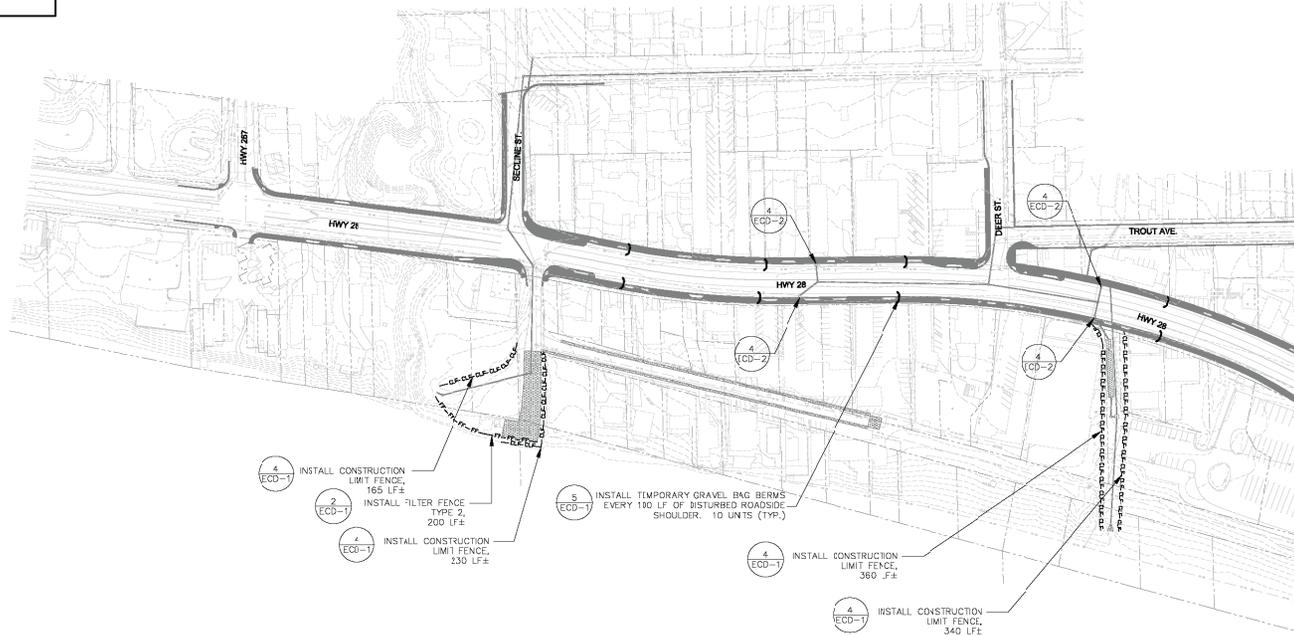
PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS



KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - GRIFF WATERSHED
PLACER COUNTY, CALIFORNIA

SHEET
EC-G2
P.O. No. 3128703

25% DESIGN PLANS
NOT FOR CONSTRUCTION

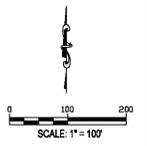


- 4 ECD-1 INSTALL CONSTRUCTION LIMIT FENCE, 165 LF±
- 2 ECD-1 INSTALL FILTER FENCE TYPE 2, 200 LF±
- 4 ECD-1 INSTALL CONSTRUCTION LIMIT FENCE, 230 LF±

- 5 ECD-1 INSTALL TEMPORARY GRAVEL BAG BERM'S EVERY 100 LF OF DISTURBED ROADSIDE SHOULDER, 10 UNITS (TYP.)

- 4 ECD-1 INSTALL CONSTRUCTION LIMIT FENCE, 360 F±

- 4 ECD-1 INSTALL CONSTRUCTION LIMIT FENCE, 340 LF±



REVISION	NUMBER	DATE	DESCRIPTION	BY

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 REGISTERED CIVIL ENGINEER
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 DRAWN: LKR
 CHECKED: SP
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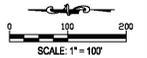
PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

ENTRIX
 1048 St. Paul Boulevard
 South Lake Tahoe, CA 96150
 (930) 543-0201 Main

KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - COMMERCIAL CORE
PLACER COUNTY, CALIFORNIA

SHEET
EC-CC1
 S.C. No. 3128703

25% DESIGN PLANS
NOT FOR CONSTRUCTION



REVISION				
NUMBER	DATE	DESCRIPTION	BY	

PREPARED UNDER THE SUPERVISION OF:
 REGISTERED CIVIL ENGINEER
 DATE: _____

DESIGNED: LKR
 DRAWN: LKR
 CHECKED: SP
 DATE: 12/07
 ROAD NUMBER: N/A



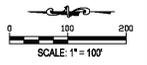
PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

ENTRIX
 1048 St. Paul Boulevard
 South Lake Tahoe, CA 96150
 (530) 542-0201 Main

KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - COMMERCIAL CORE
PLACER COUNTY, CALIFORNIA

SHEET
EC-CC2
 PLOT No. 3128703

25% DESIGN PLANS
NOT FOR CONSTRUCTION



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PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

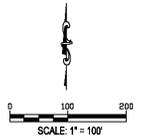
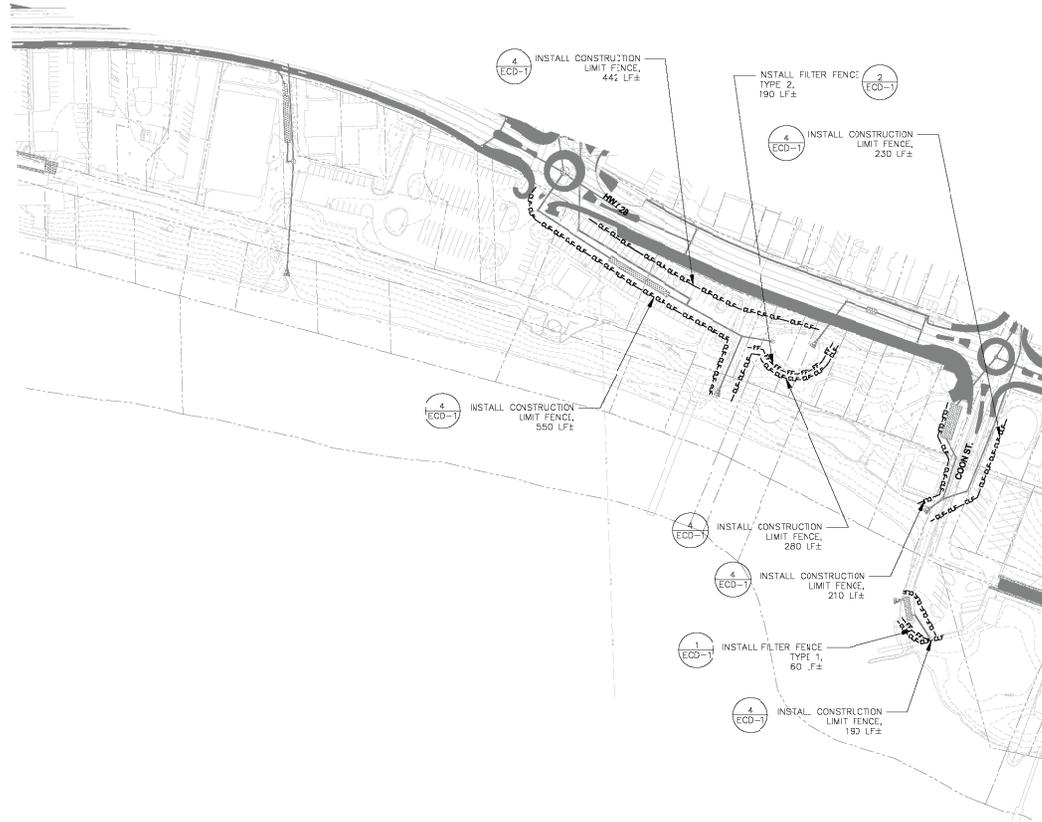
ENTRIX

1048 St. Paul Boulevard
South Lake Tahoe, CA 96150
(930) 543-6201 Main

KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - COMMERCIAL CORE
PLACER COUNTY, CALIFORNIA

SHEET
EC-CC3
SHEET No. 3128703

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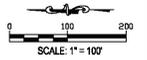
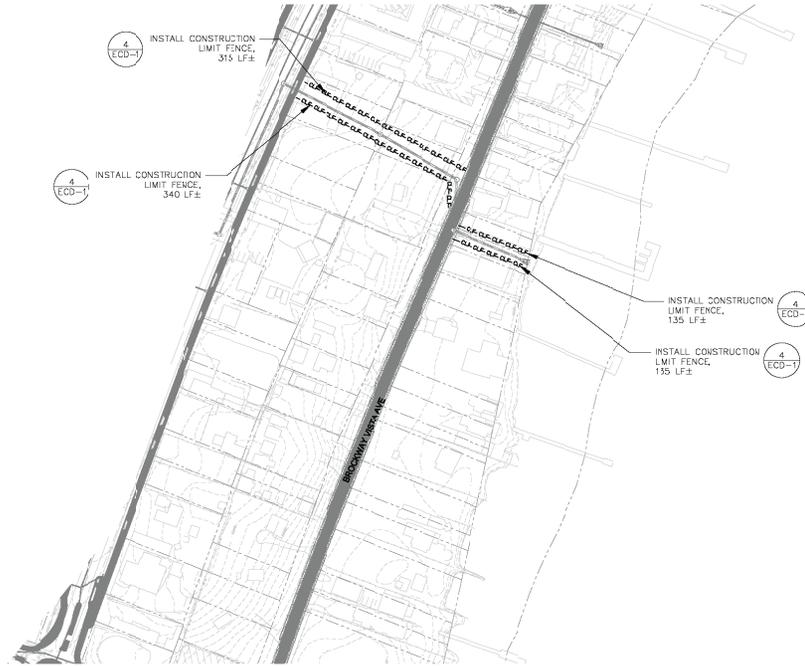
PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

ENTRIX
 1048 BK: Rut Boulevard
 South Lake Tahoe, CA 96150
 (930) 542-6001 Main

KINGS BEACH
 WATERSHED IMPROVEMENT PROJECT
 TEMPORARY EROSION CONTROL - OUTFALL WATERSHED
 PLACER COUNTY, CALIFORNIA

SHEET
 EC-01
 REC. No. 3128703

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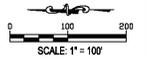
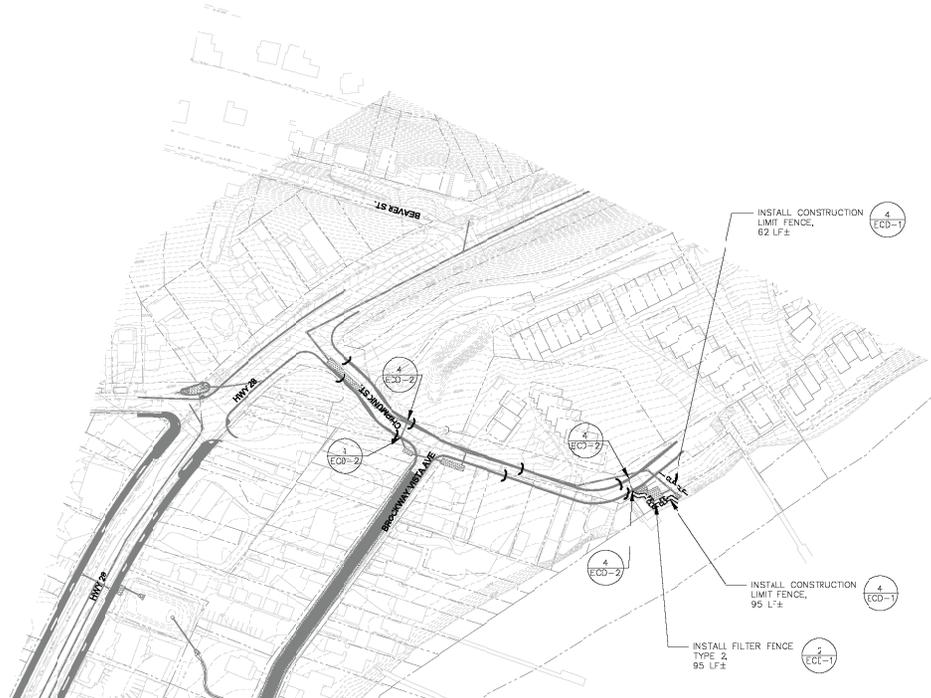
PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

ENTRIX
 1048 BR. RISE BOULEVARD
 SOUTH LAKE TAHOE, CA 96150
 (530) 543-6201 Main

KINGS BEACH
 WATERSHED IMPROVEMENT PROJECT
 TEMPORARY EROSION CONTROL - OUTFALL WATERSHED
 PLACER COUNTY, CALIFORNIA

SHEET
 EC-02
 PLOT No. 3128703

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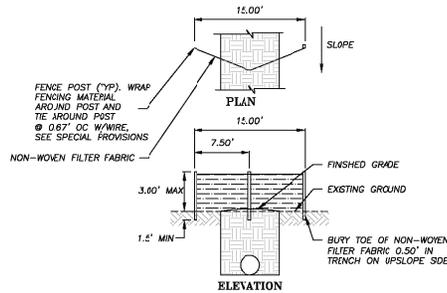


PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

ENTRIX
1048 SE. 7th Boulevard
South Lake Tahoe, CA 96150
(930) 542-6201 Main

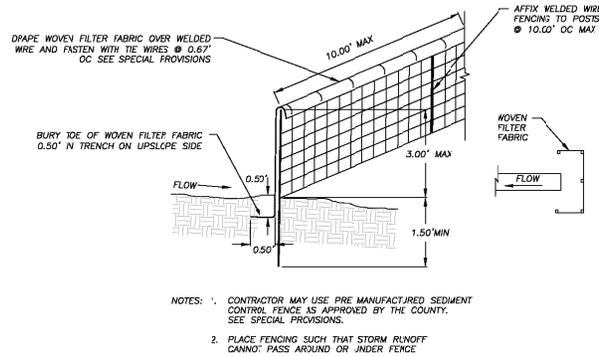
KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - OUTFALL WATERSHED
PLACER COUNTY, CALIFORNIA

SHEET
EC-03
W.C. No. 3128703



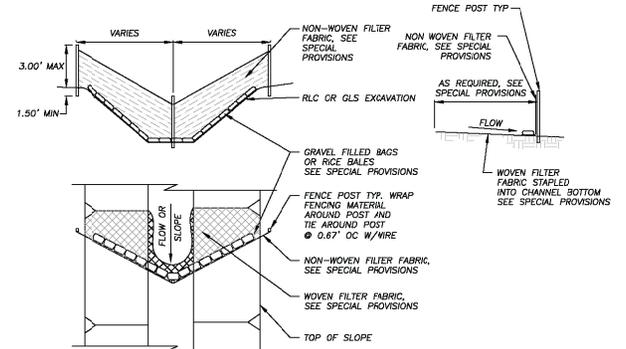
TYPICAL FILTER FENCE TYPE 1 PLACEMENT AT STORM DRAIN PIPE IN BACKFILL

1
ECD-1



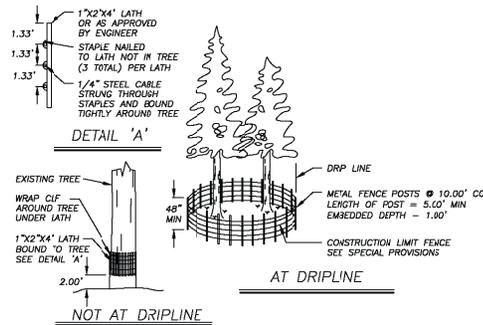
TYPICAL FILTER FENCE TYPE 2 AT DOWNHILL EDGE OF CUT AND FILL AREAS (FF) & CULVERT INLETS

2
ECD-1



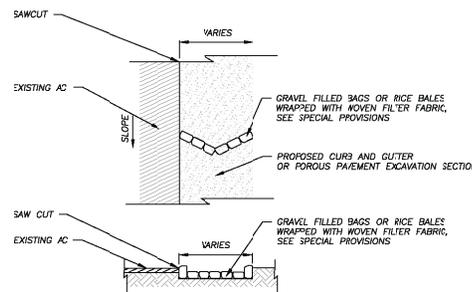
TYPICAL FILTER FENCE TYPE 3 AT RLC OR GLS

3
ECD-1



TYPICAL TREE PROTECTION AND CONSTRUCTION LIMIT FENCE (CLF)

4
ECD-1



TYPICAL C&G, AC DIKE, AC SWALE, & POROUS PAVEMENT EXCAVATION SEDIMENT CONTROL

5
ECD-1

SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING FILTER FABRIC, GRAVEL BAGS, RICE FIBER FOLLS, RICE BALES AND FENCE POSTS.
SPACING INTERVALS FOR TYPE 1 FILTER FENCE, AND C&G SEDIMENT CONTROL SHALL BE AT 50' OC FOR SLOPES GREATER THAN 5% AND AT 100' OC FOR SLOPES LESS THAN OR EQUAL TO 5%.
LOCATIONS AND LF OF TYPE 2 FILTER FENCE REQUIRED FOR THE STAGING AREAS ARE NOT SHOWN. THE CONTRACTOR IS TO INCLUDE THESE AREAS IN HIS TEMPORARY EROSION CONTROL PLAN SUBMITTAL.
DIMENSION LIMITS OF FILTER FENCE AND CONSTRUCTION LIMIT FENCE DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING TO BE PER DETAIL THIS SHEET AND/OR AS DETERMINED IN THE FIELD.

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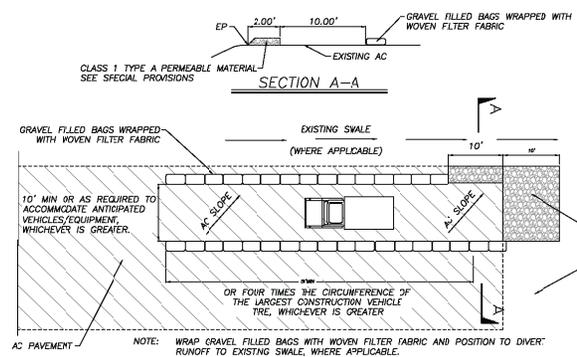
PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS



KINGS BEACH
WATERSHED IMPROVEMENT PROJECT
TEMPORARY EROSION CONTROL - DETAILS
PLACER COUNTY, CALIFORNIA

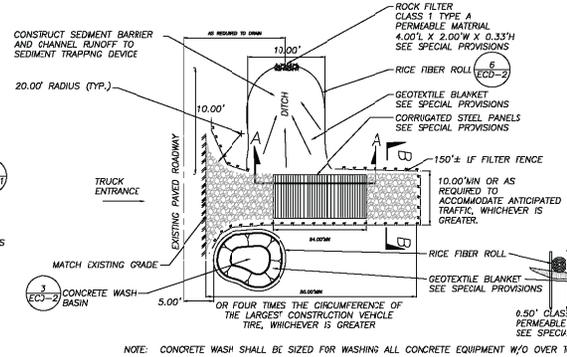
SHEET
ECD-1
PROJECT No. 3128703

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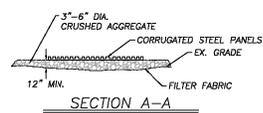
TYPICAL TIRE WASH AREA TYPE 1 (ON PAVEMENT)
NTS

1
ECD-2

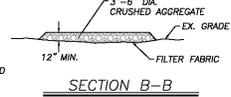


TYPICAL CONCRETE EQUIPMENT WASH
NTS

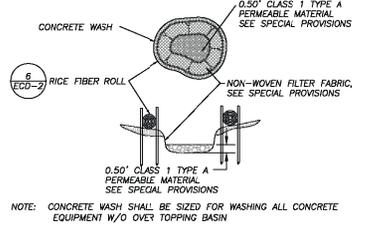
2
ECD-2



SECTION A-A

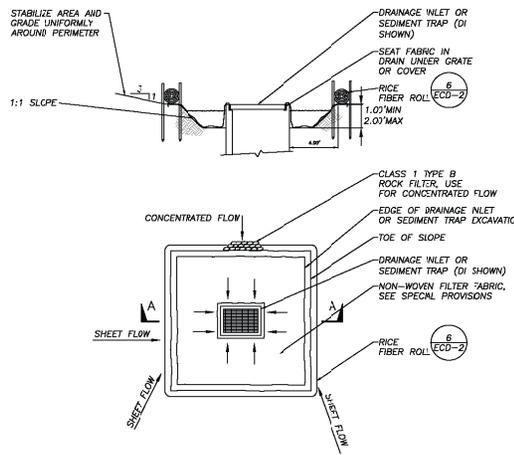


SECTION B-B



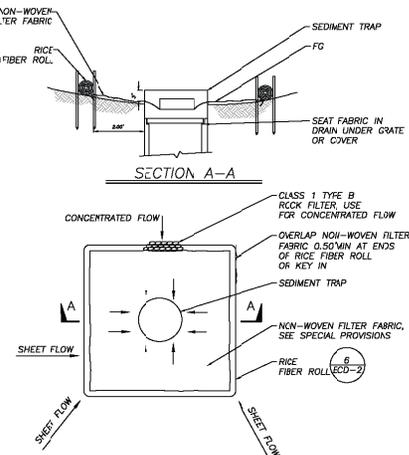
CONCRETE WASH BASIN
NTS

3
ECD-2



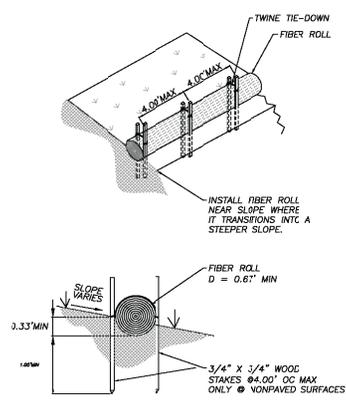
TYPICAL DRAINAGE INLET PROTECTION - TYPE 1
NTS

4
ECD-2



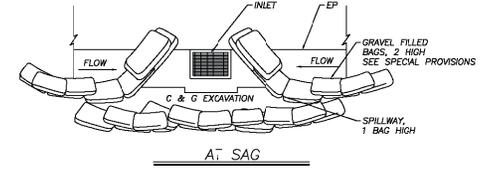
TYPICAL SEDIMENT TRAP INLET PROTECTION - TYPE 2
NTS

5
ECD-2

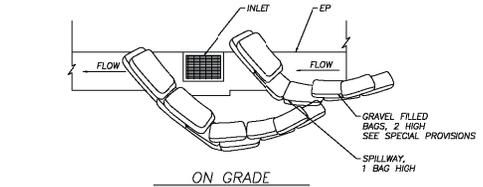


TYPICAL FIBER ROLL INSTALLATION
NTS

6
ECD-2



AT SAG



ON GRADE

- NOTES:
1. INTENDED FOR SHORT-TERM USE ONLY.
 2. USE TO INHIBIT NON-STORMWATER SUCH AS DUST CONTROL WATERING FLOW.
 3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
 4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.

TYPICAL DRAINAGE INLET PROTECTION - TYPE 3
NTS

7
ECD-2

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