

UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

E.I.P. # 560



870 Emerald Bay Road, Suite 400  
South Lake Tahoe, CA 96150  
Tel: 530.543.5100 Fax: 530.543.5150



295 Highway 50, suite 1  
Zephyr Cove, NV 89448  
Tel: 775.588.9069

DETAILS

D-3

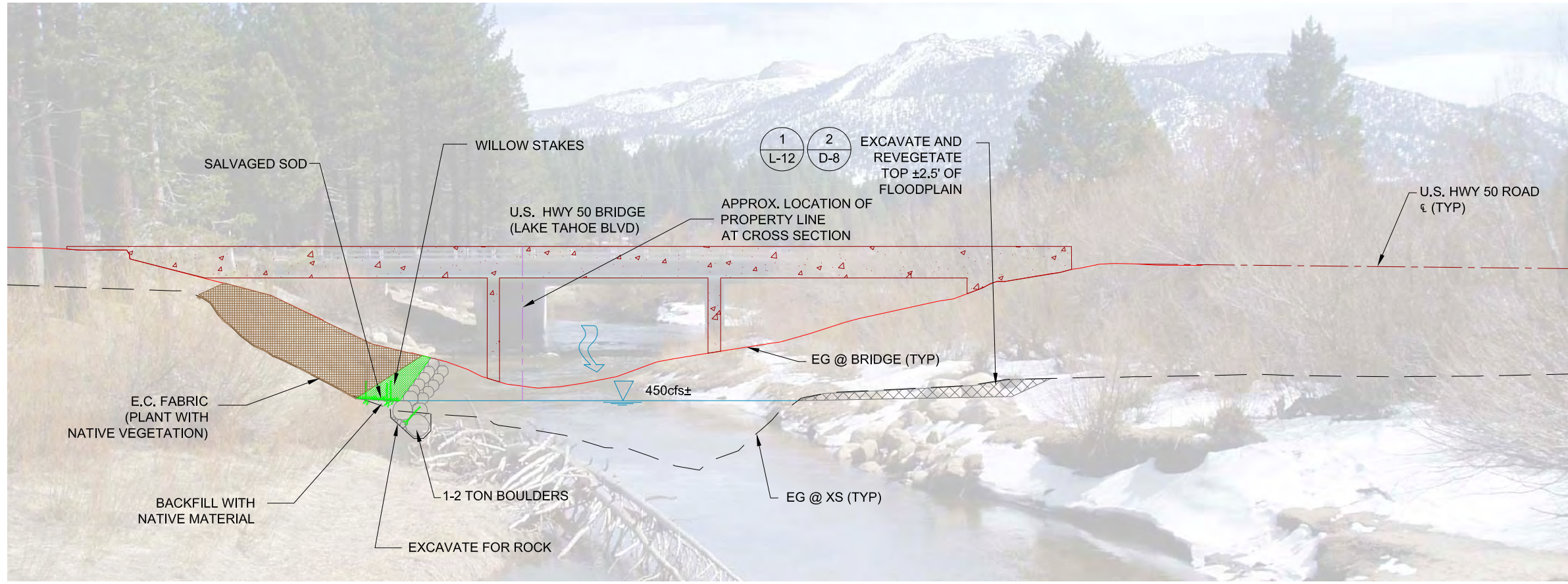
REVISIONS

#	description	date

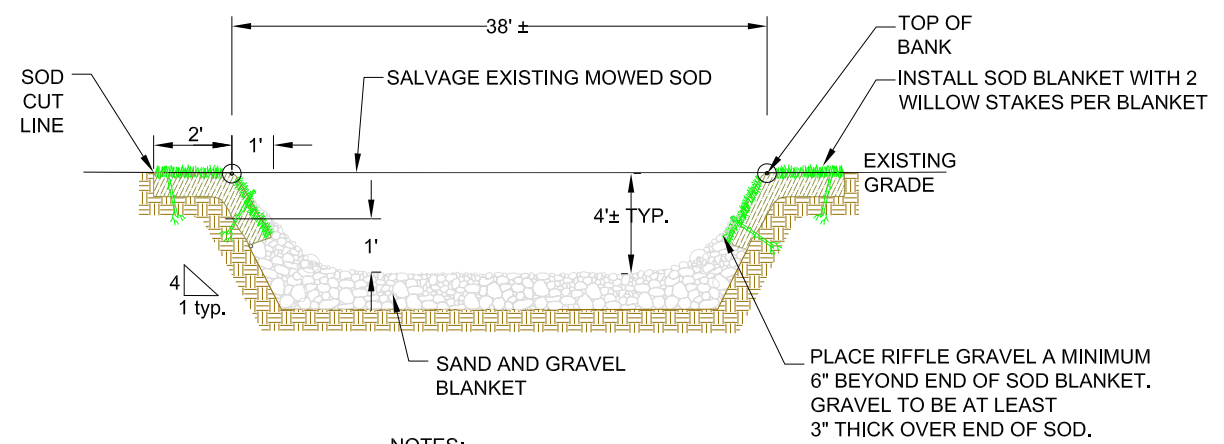
scale: AS SHOWN  
job no.: 00110066.04  
drawn by: CK  
checked by: CM

sheet no.: D-3

sheet 28 of 45  
date: 11/20/07

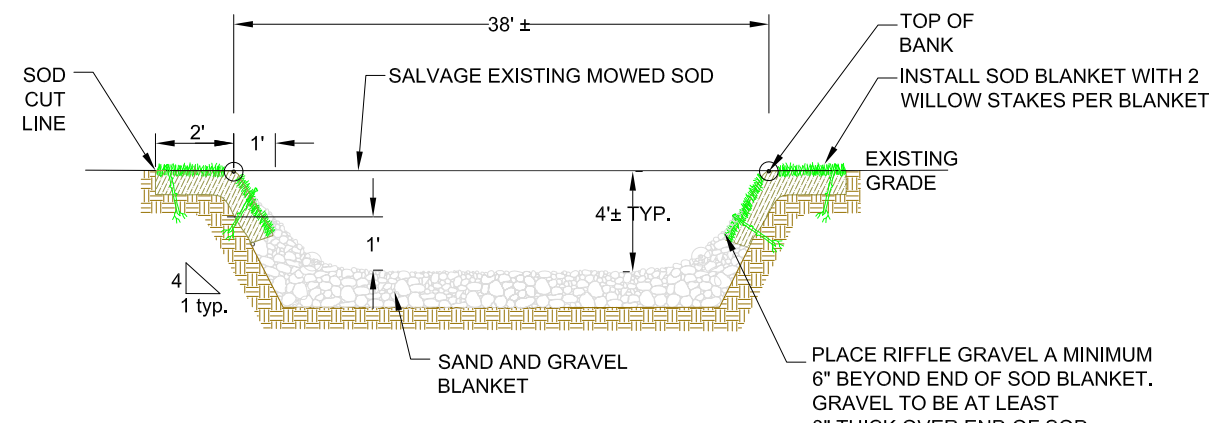


1 BANK PROTECTION - TYP. ALTERNATIVE 4  
D-3 SCALE 1"=10'



NOTES:  
1. TOP OF BANK LINE SHALL BE PAINTED PRIOR TO GRADING, BY THE ENGINEER.

2 PILOT CHANNEL TYP. CROSS-SECTION - ALTERNATIVE 3  
D-3 NTS



NOTES:  
1. TOP OF BANK LINE SHALL BE PAINTED PRIOR TO GRADING, BY THE ENGINEER.

3 MEADOW REACH TYPICAL CROSS-SECTION - ALTS 1, 2, & 4  
D-3 NTS

SCHEMATIC DESIGN PLANS & DETAILS NOT FOR CONSTRUCTION

**DETAILS**

**D-4**

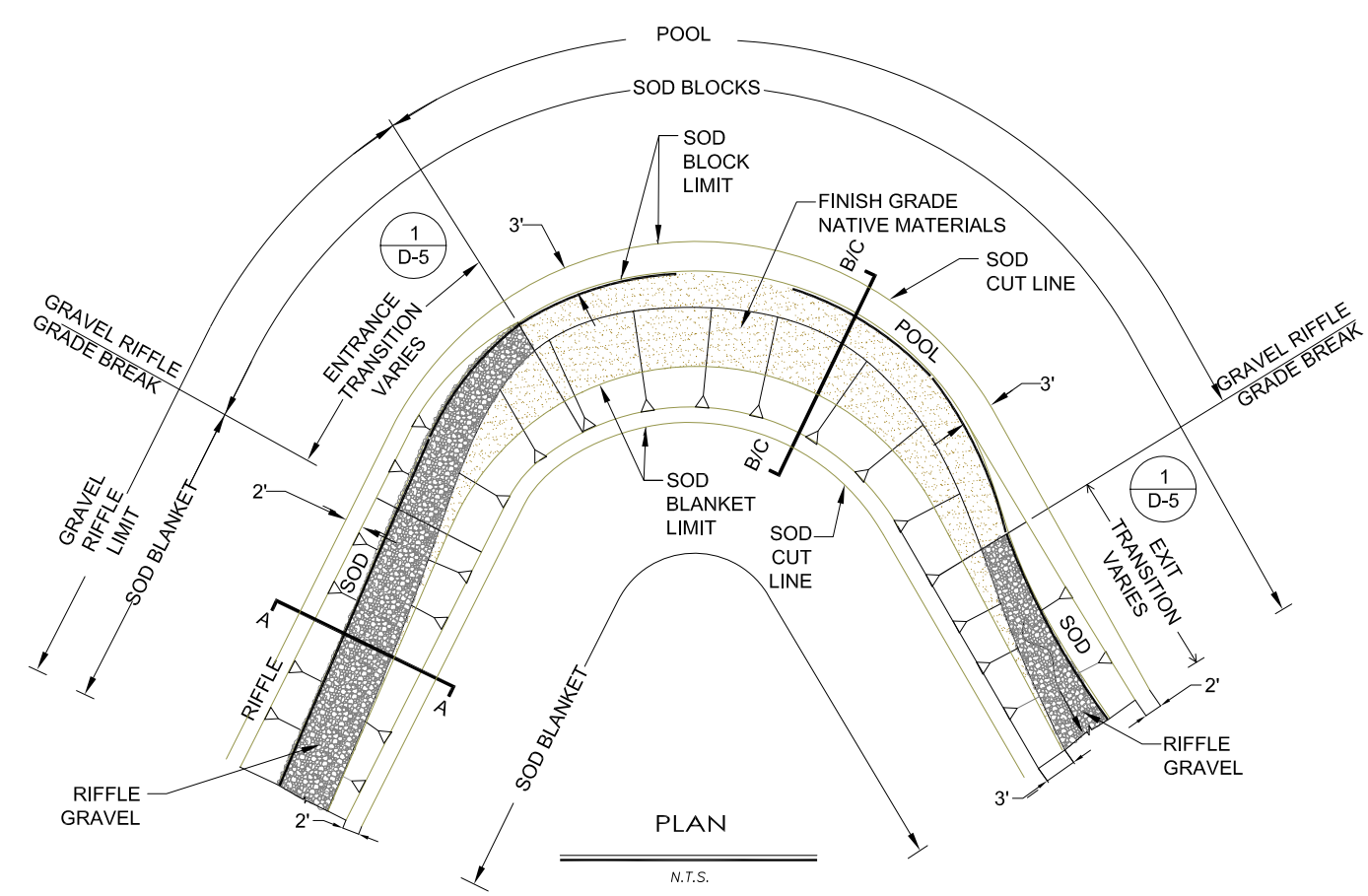
REVISIONS

#	description	date

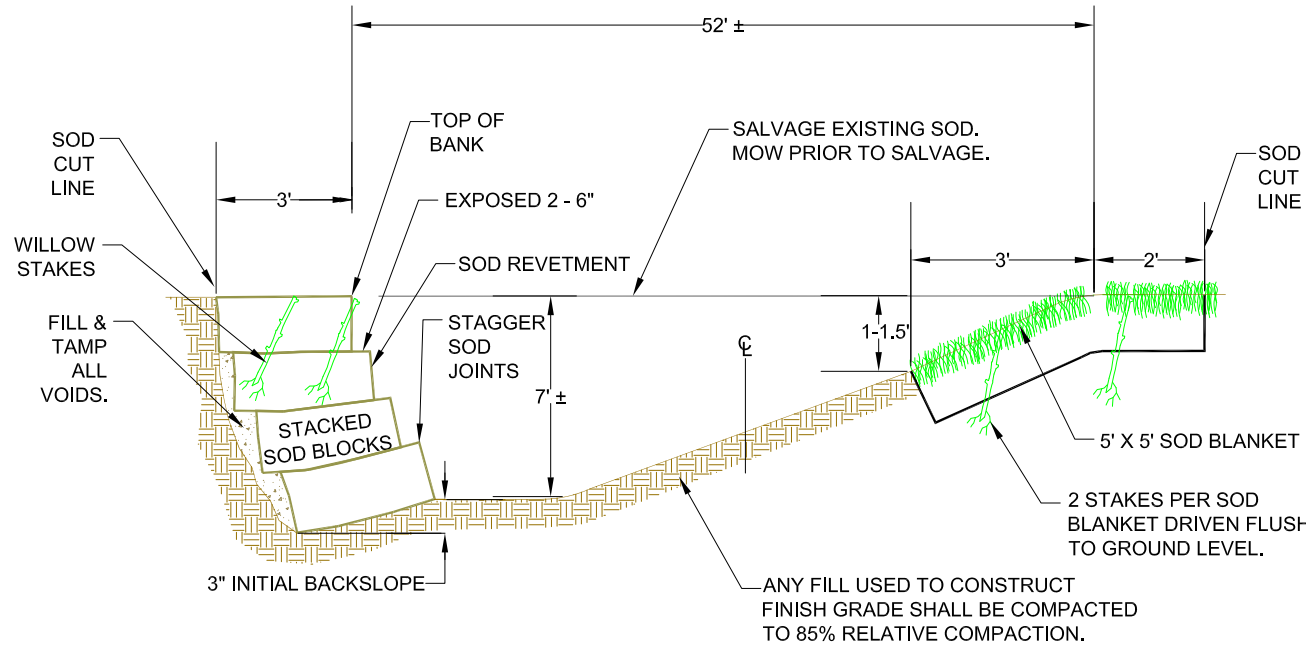
scale: AS SHOWN  
job no.: 00110066.04  
drawn by: CK  
checked by: CM

sheet no.: D-4

sheet 29 of 45  
date: 11/20/07



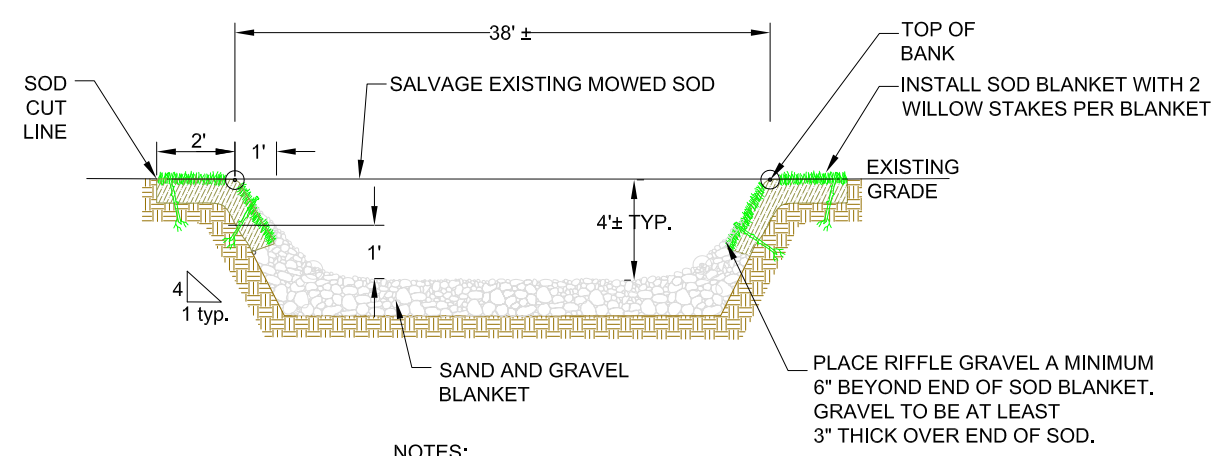
NOTES:  
1. RIFFLE AND SOD REVETMENT LENGTHS VARY.



NOTES:  
1. 0.75-1.5 INCH DIAMETER LIVE WILLOW 18-24" STAKES.  
2. 2"- 6" SET BACK ON SOD BLOCKS.  
3. SOD BLOCKS SHALL BE APPROXIMATELY 10"-14" THICK AND 3' WIDE X 5' LONG.  
4. SOD BLANKET SHALL BE A MINIMUM 5' WIDE X 5' LONG.  
5. COMPACT EACH LAYER OF SOD WITH LOADER BUCKET OR EQUAL.  
6. SOD CUT LINE AND TOP-OF-BANK LINE SHALL BE PAINTED, PRIOR TO GRADING, BY THE ENGINEER.

**SECTION B-B**

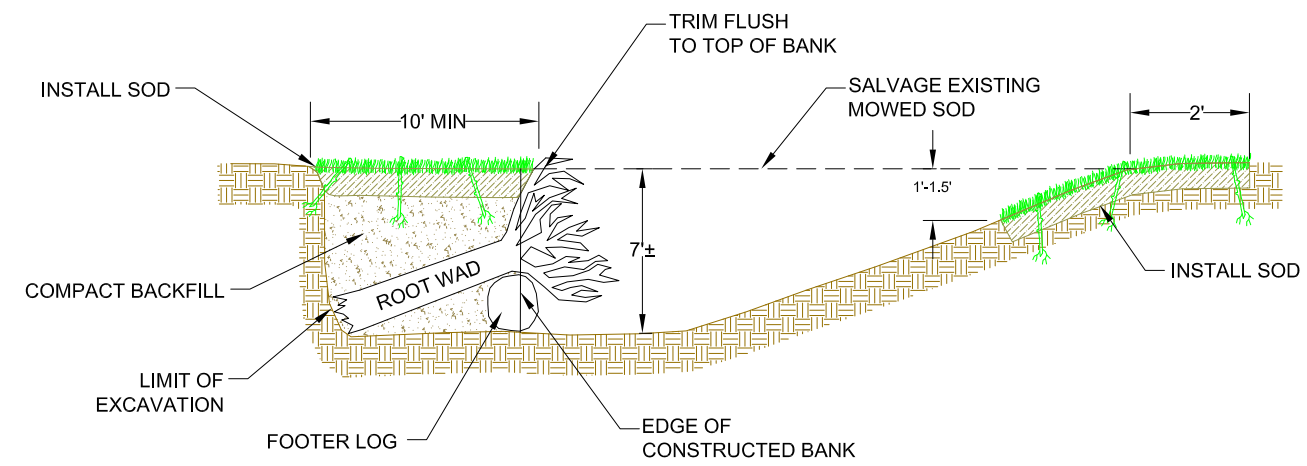
N.T.S.



NOTES:  
1. TOP OF BANK LINE SHALL BE PAINTED PRIOR TO GRADING, BY THE ENGINEER.

**SECTION A-A**

N.T.S.



NOTES:  
1. SEE SPECIFICATIONS FOR MATERIALS AND DIMENSIONS OF LOG REVETMENTS.  
2. ANY FILL USED TO CONSTRUCT FINISH GRADE SHALL BE COMPACTED TO 85% RELATIVE COMPACTION.

**SECTION C-C**

N.T.S.

**1 D-4 TYPICAL VALLEY REACH**

N.T.S.

SCHEMATIC DESIGN PLANS & DETAILS NOT FOR CONSTRUCTION

DETAILS

D-5

REVISIONS

#	description	date

scale: AS SHOWN

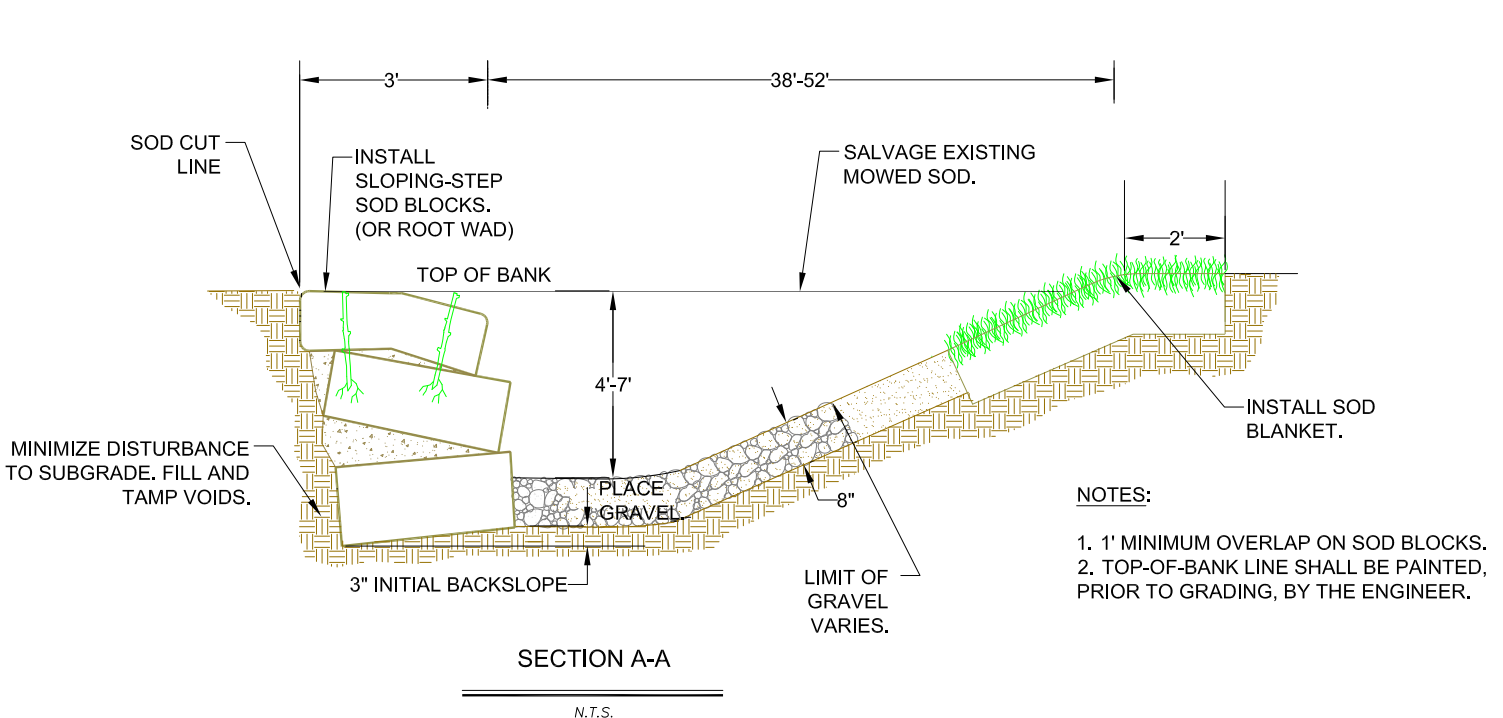
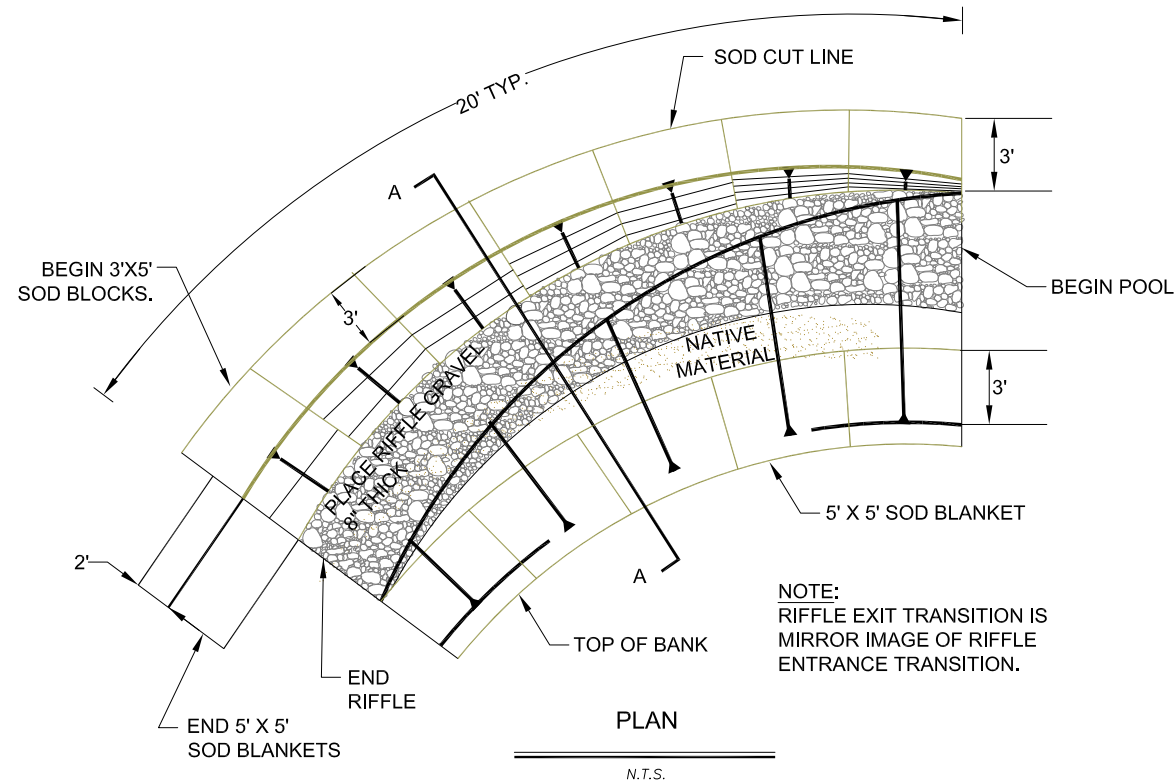
job no.: 00110066.04

drawn by: CK

checked by: CM

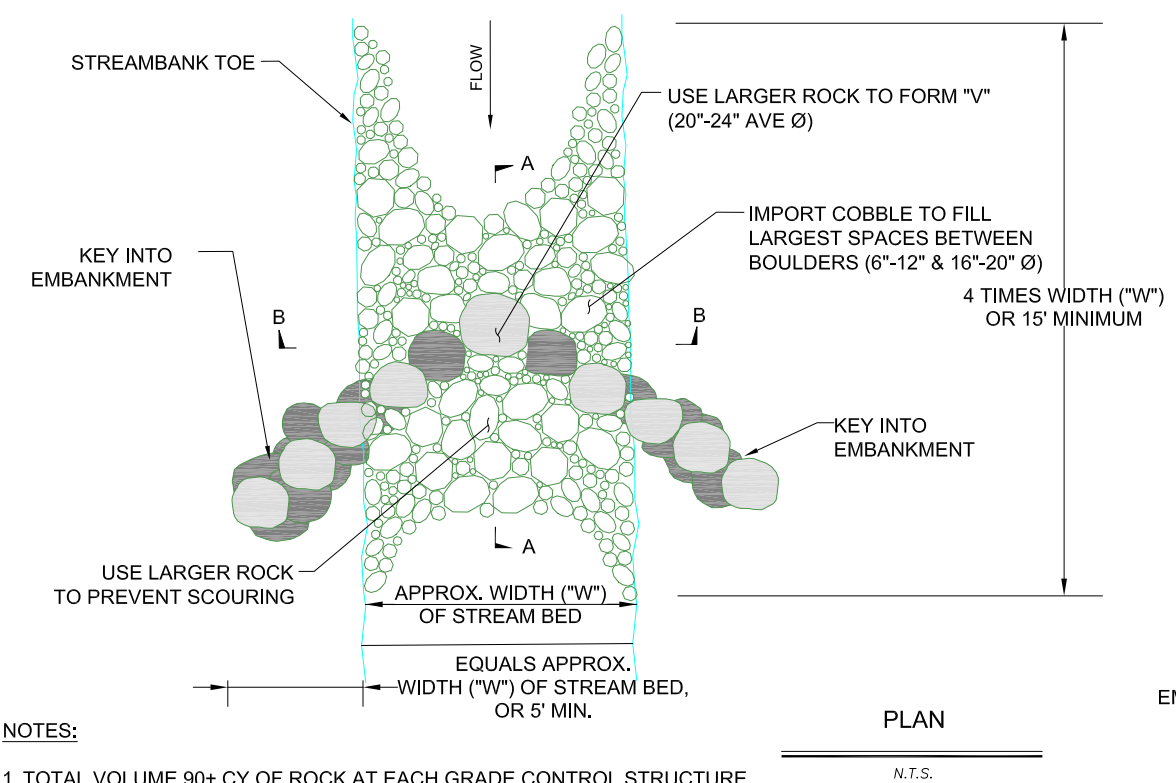
sheet no.: D-5

sheet 30 of 45  
date: 11/20/07



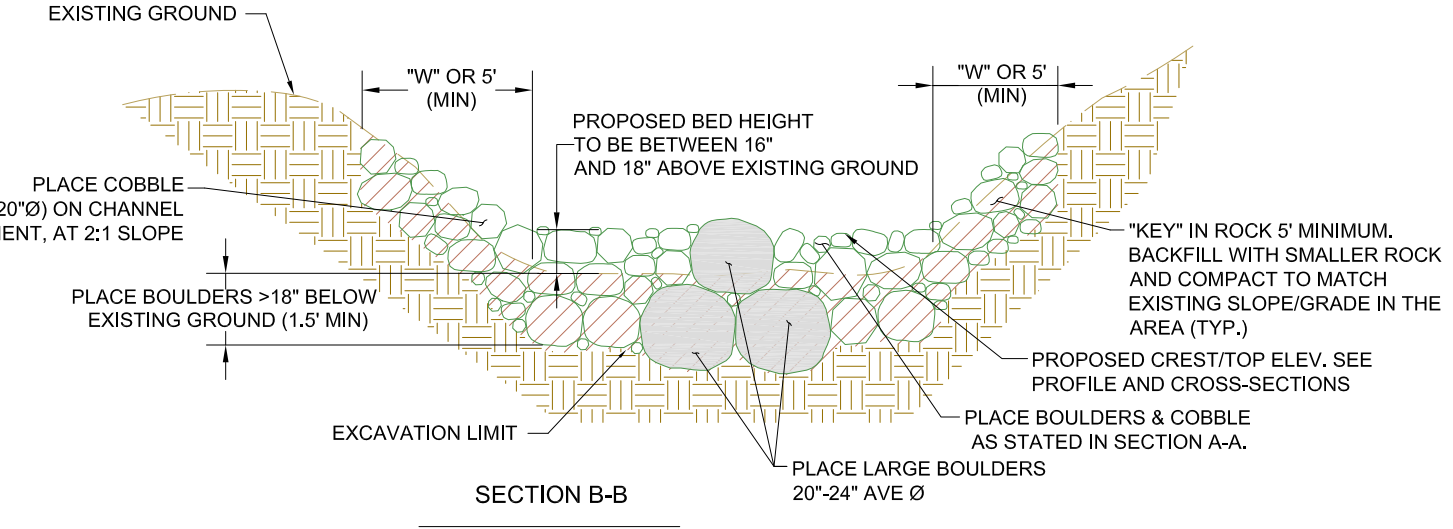
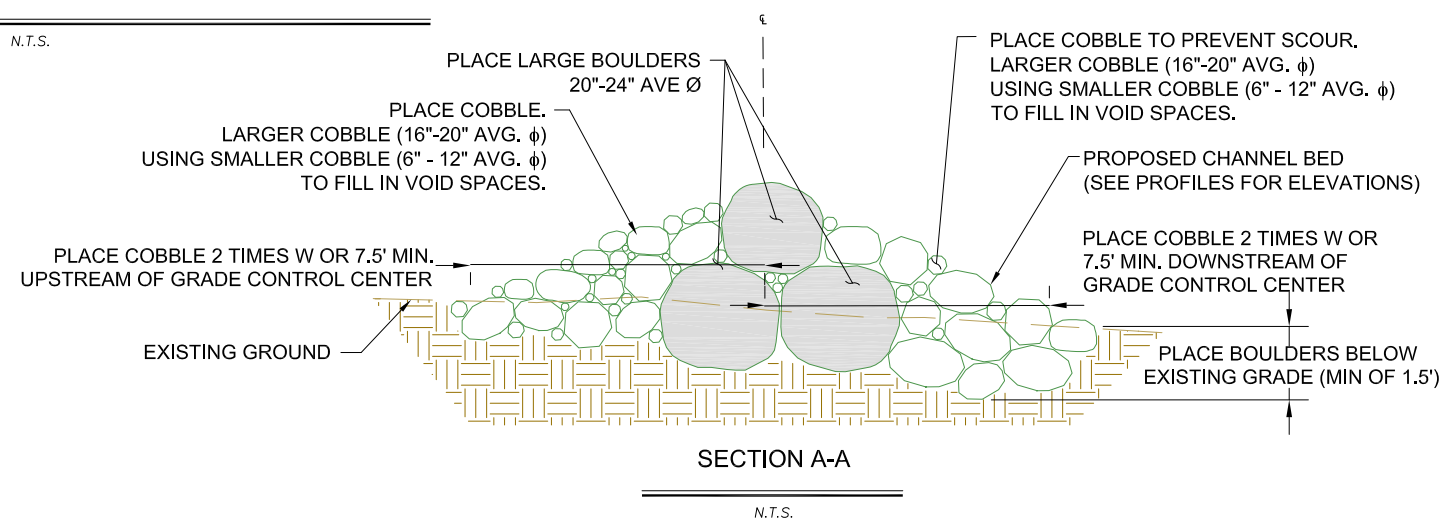
- NOTES:
- 1' MINIMUM OVERLAP ON SOD BLOCKS.
  - TOP-OF-BANK LINE SHALL BE PAINTED, PRIOR TO GRADING, BY THE ENGINEER.

1 TYPICAL NEW CHANNEL TRANSITION  
D-5 N.T.S.



- NOTES:
1. TOTAL VOLUME 90± CY OF ROCK AT EACH GRADE CONTROL STRUCTURE
  2. LARGE BOULDERS (20"-24" AVE Ø) PLACED TO FORM "V" IN GRADE CONTROL STRUCTURE SHALL BE PLACED (VERTICAL/ELEVATION) STARTING AT ε OF CHANNEL 16"-18" BELOW EXISTING GROUND.
  3. THE ELEVATION OF THE LARGE BOULDERS (20"-24" AVE Ø) SHALL INCREASE AT 2% ± GOING AWAY FROM THE CHANNEL ε AND INTO THE EMBANKMENT. THE BOTTOM OF THE ROCK IN THE CHANNEL ε SHALL BE APPROXIMATELY 0.25' LOWER THAN THE LAST ROCK PLACED (FURTHEST INTO EMBANKMENT).

2 BOULDER VERTICAL GRADE CONTROL  
D-5 N.T.S.



SCHMATIC DESIGN PLANS & DETAILS  
NOT FOR CONSTRUCTION

**DETAILS**

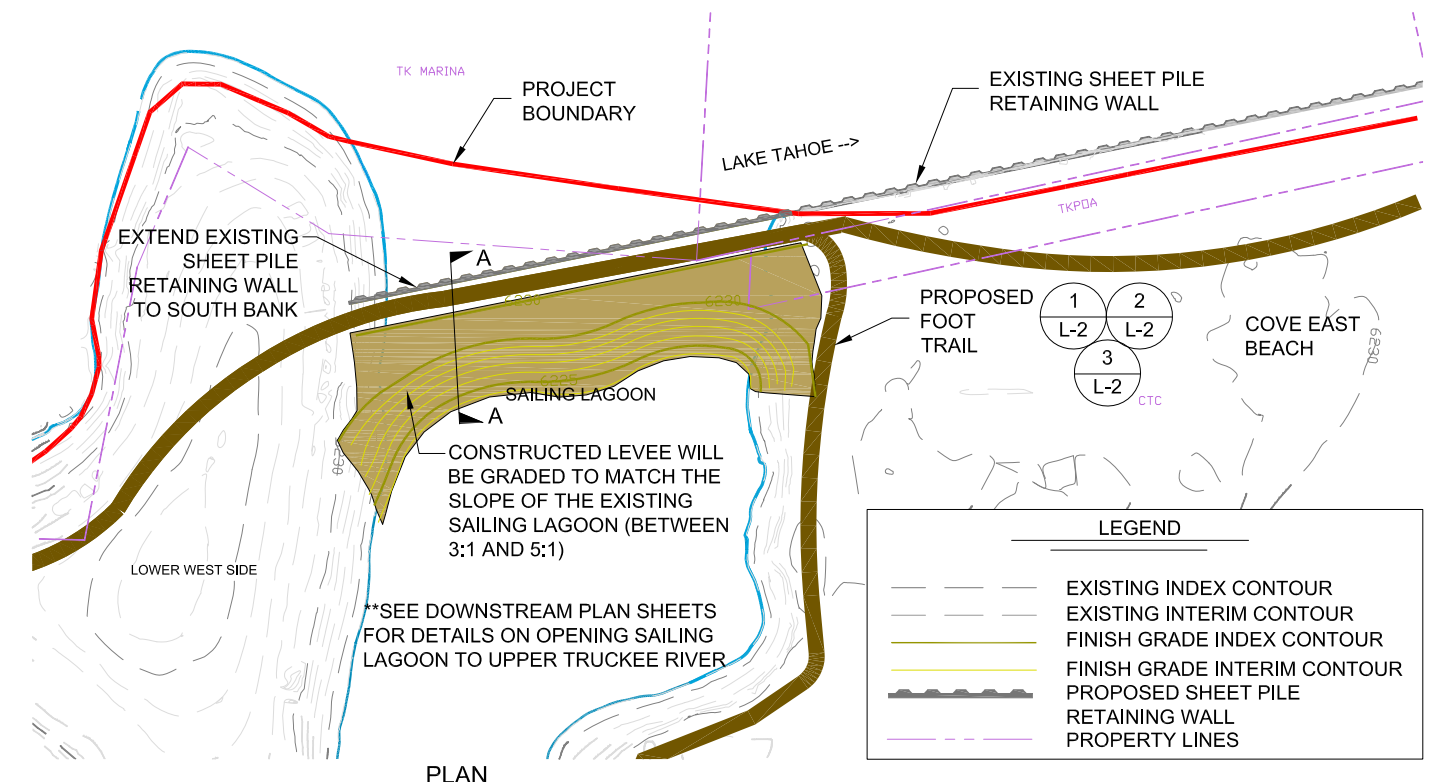
**D-6**

REVISIONS		
#	description	date

scale:	AS SHOWN
job no.:	00110066.04
drawn by:	CK
checked by:	CM

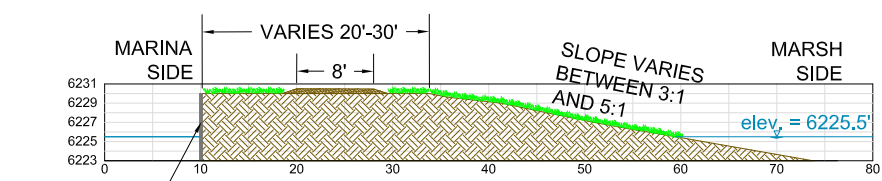
sheet no.: D-6

sheet 31 of 45  
date: 11/20/07



**LEGEND**

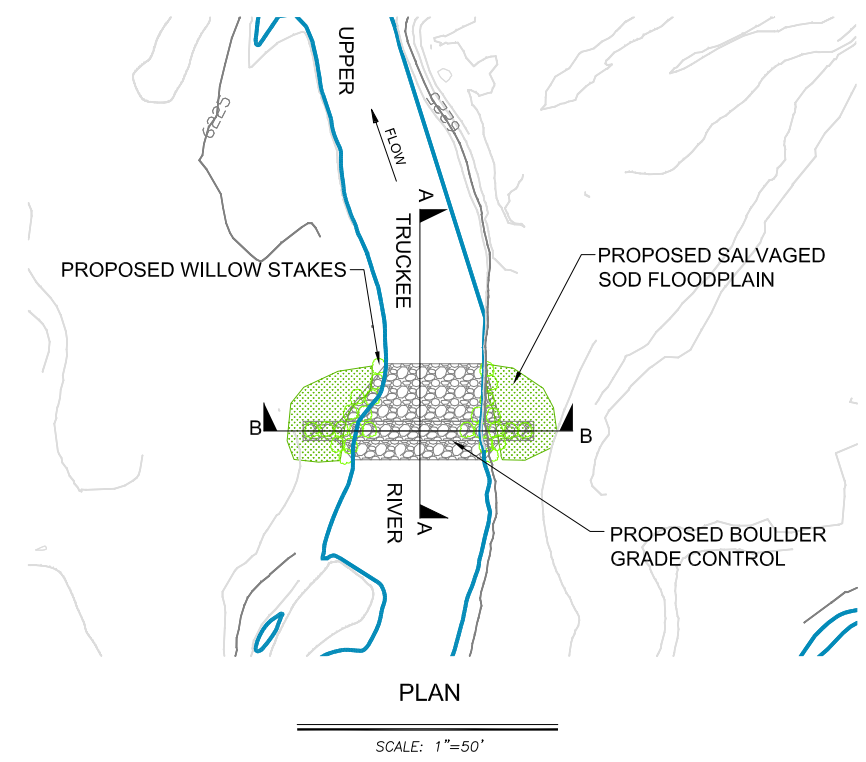
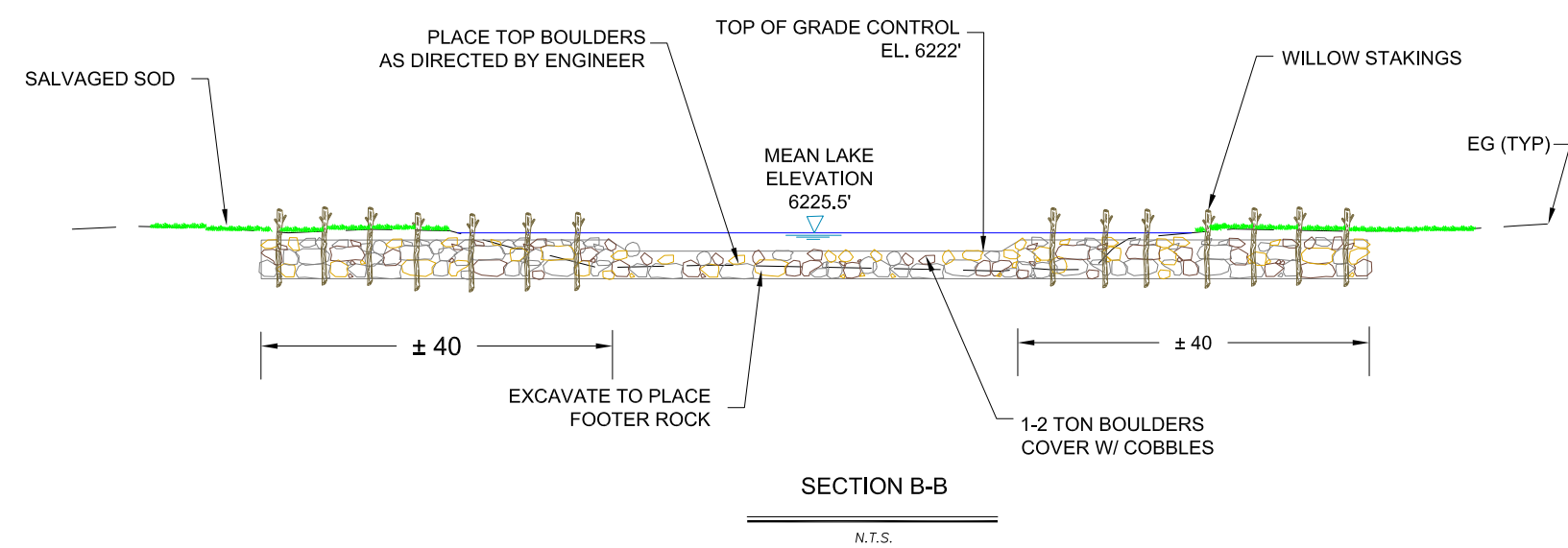
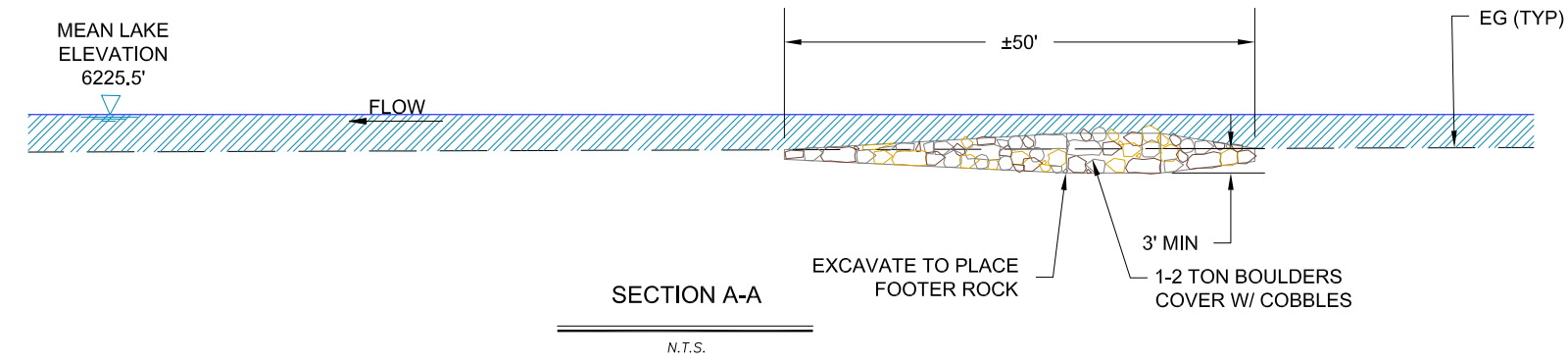
- EXISTING INDEX CONTOUR
- EXISTING INTERIM CONTOUR
- FINISH GRADE INDEX CONTOUR
- FINISH GRADE INTERIM CONTOUR
- PROPOSED SHEET PILE RETAINING WALL
- PROPERTY LINES



**RE-ESTABLISH THE RIVER-OVERFLOW LAGOON**

- NOTES:**
1. THE SURFACE WATER OF THE SAILING LAGOON IS PART OF THE TAHOE KEYS MARINA AND IS HYDRAULICALLY CONNECTED TO LAKE TAHOE, A RESULT OF PRIOR DREDGING AND FILL ACTIVITIES TO PROVIDE VARIOUS NAVIGATION ROUTES SINCE THE 1950'S.
  2. ALTERNATIVES 1, 2, AND 3 WILL RESTORE A LAGOON FEATURE ON THE UPPER TRUCKEE BY: 1) CONSTRUCTING A BULKHEAD AT THE EXISTING SAILING LAGOON TO BLOCK ITS OPEN CONNECTION WITH THE MARINA; AND 2) RE-EXCAVATING THE FILL BETWEEN THE SAILING LAGOON AND THE UPPER TRUCKEE SO THAT THE RIVER IS A SURFACE WATER SOURCE TO THE LAGOON.
  3. THE LOWER WEST SIDE PLAN SHEETS SHOW THE PROPOSED ALTERNATIVES FOR RECONNECTING THE SAILING LAGOON TO THE UPPER TRUCKEE RIVER.

**1**  
**D-6** SAILING LAGOON BULKHEAD - ALTS. 1, 2, & 3



**2**  
**D-6** BIOENGINEERED GRADE CONTROL AT RIVER MOUTH - TYPE I

SCHEMATIC DESIGN PLANS & DETAILS  
NOT FOR CONSTRUCTION

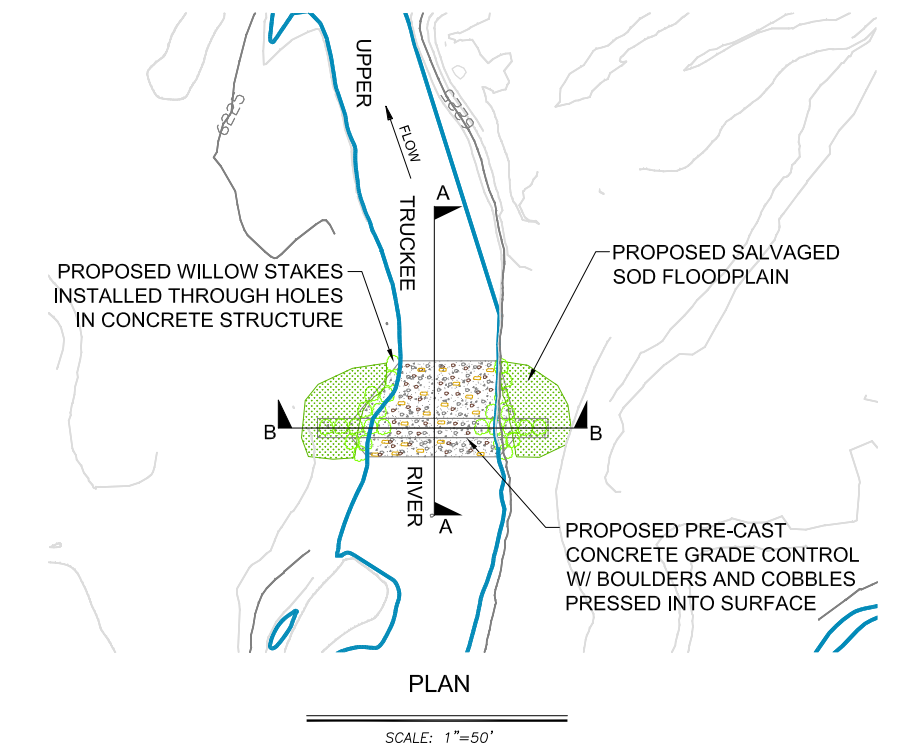
REVISIONS

#	description	date

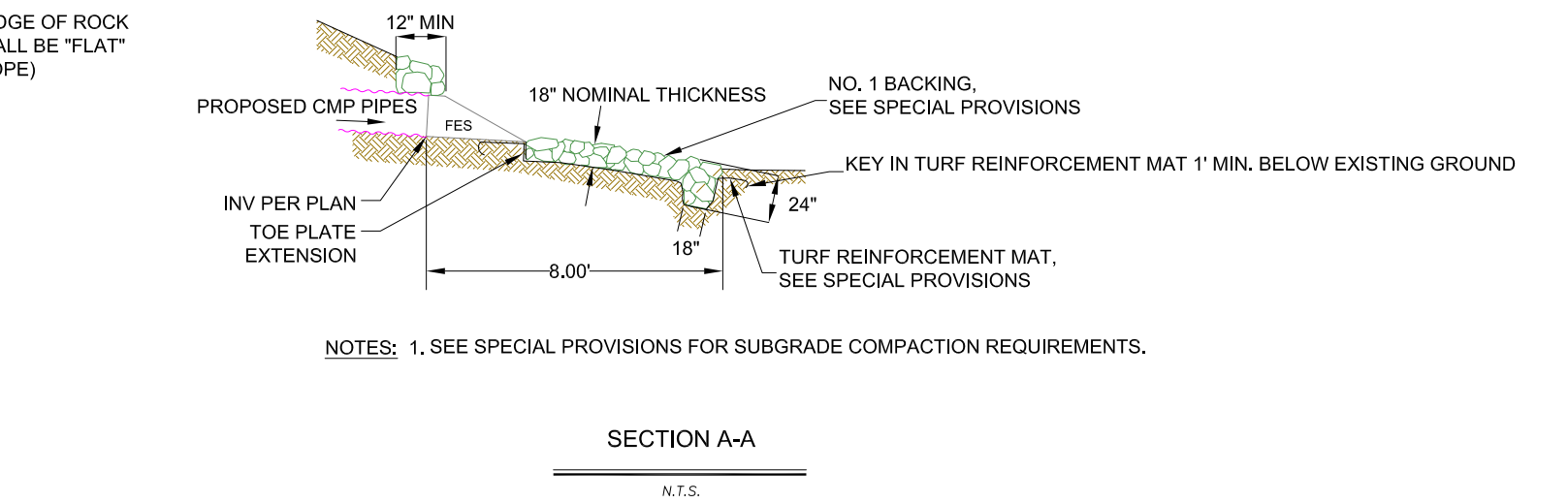
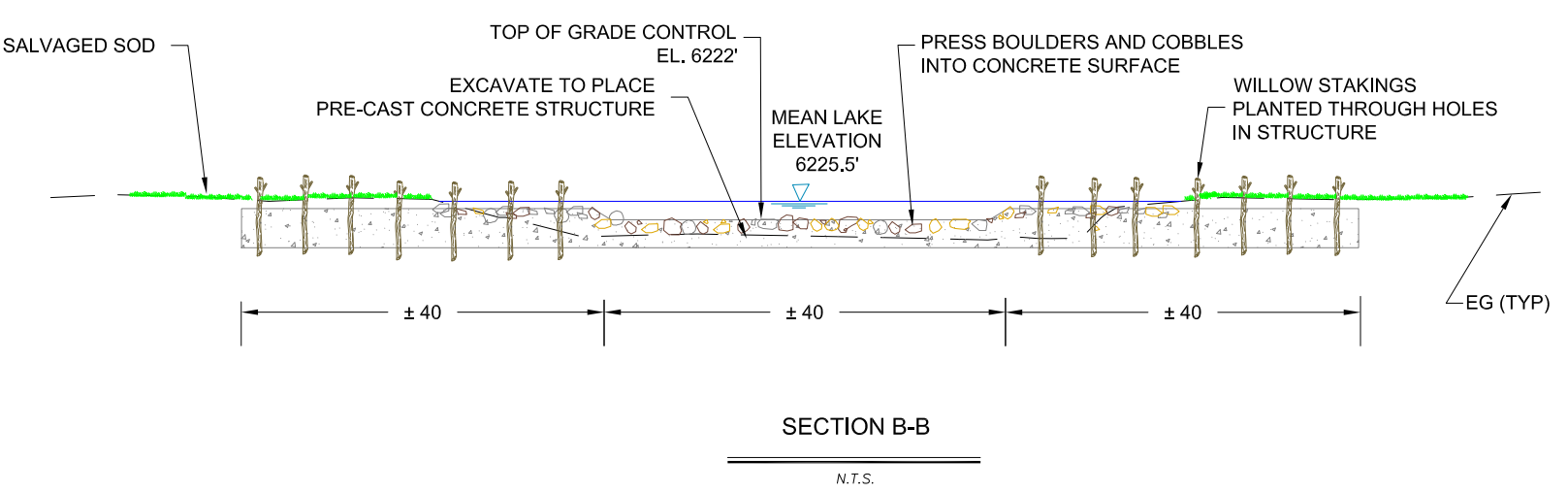
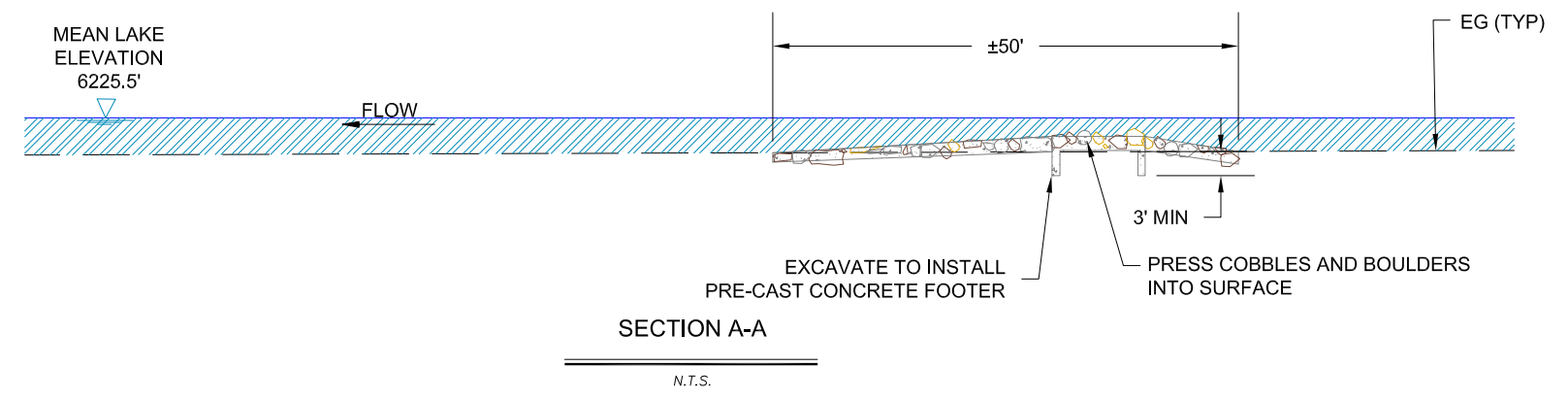
scale:	AS SHOWN
job no.:	00110066.04
drawn by:	CK
checked by:	CM

sheet no.: D-7

sheet 32 of 45  
date: 11/20/07

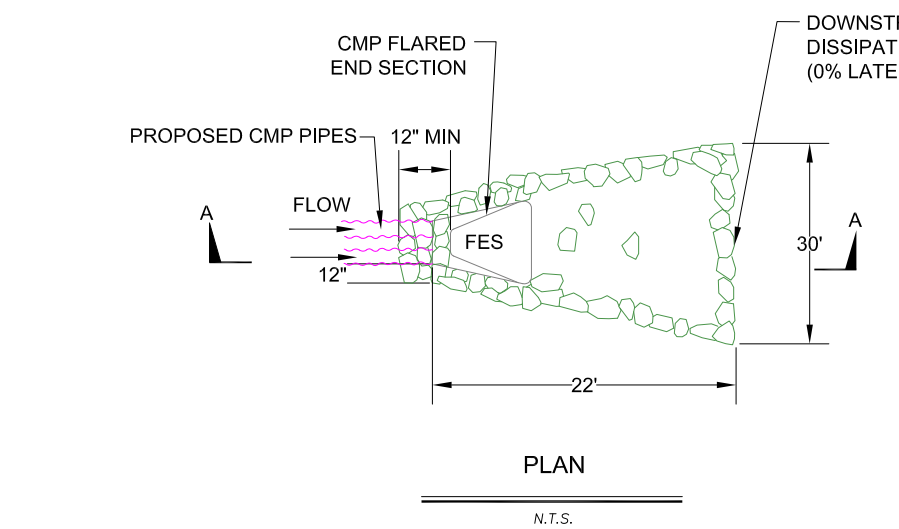


1  
D-7 BIOENGINEERED GRADE CONTROL AT RIVER MOUTH - TYPE II



NOTES: 1. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.

2  
D-7 ROCK RIP-RAP ENERGY DISSIPATOR



SCHEMATIC DESIGN PLANS & DETAILS  
NOT FOR CONSTRUCTION

DETAILS

D-8

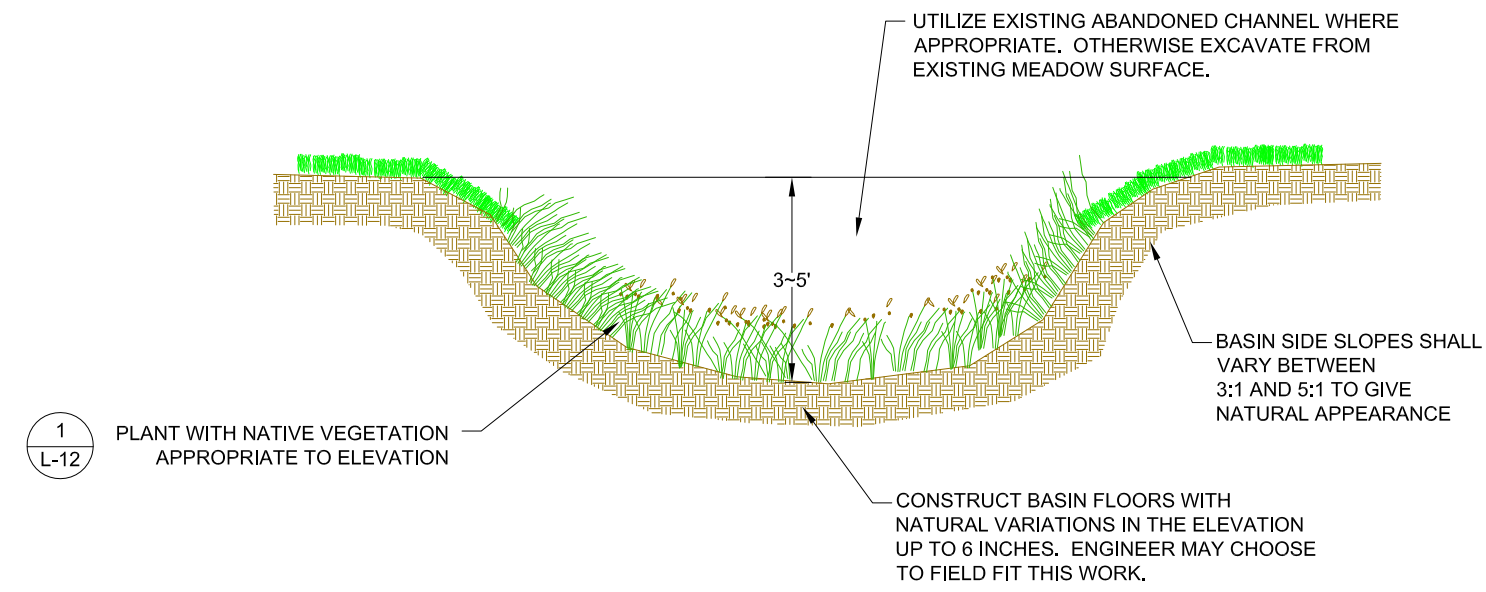
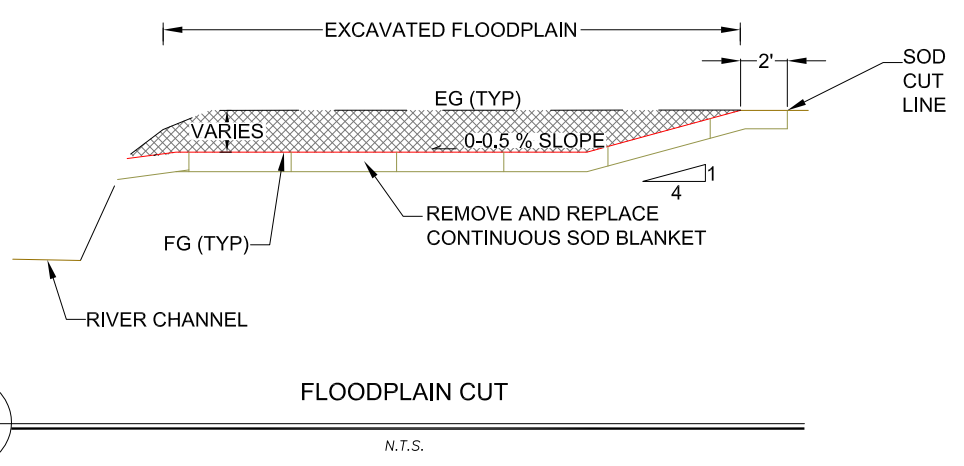
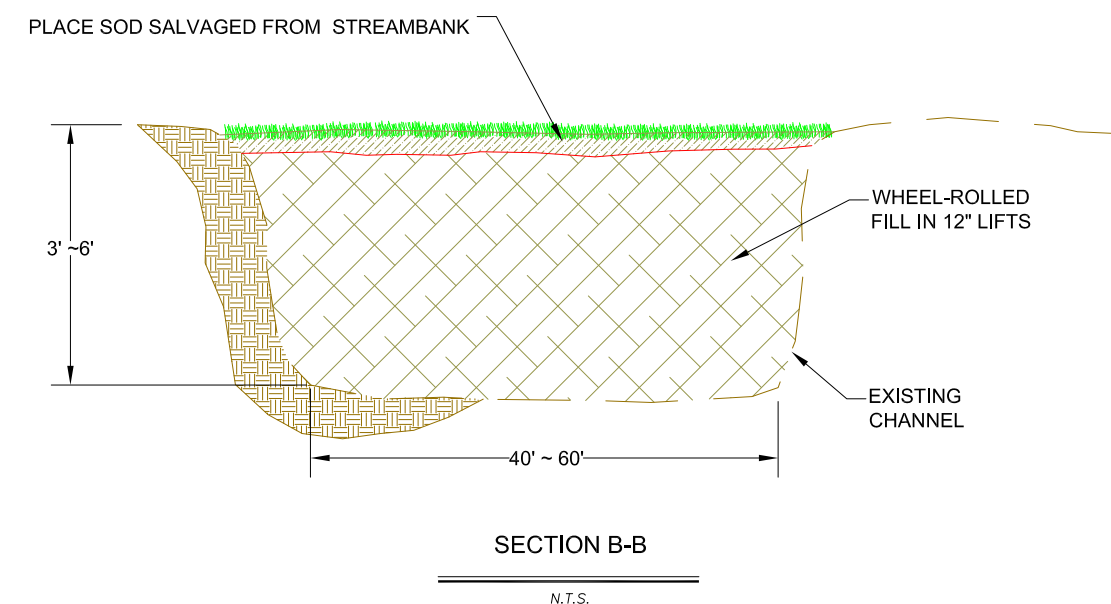
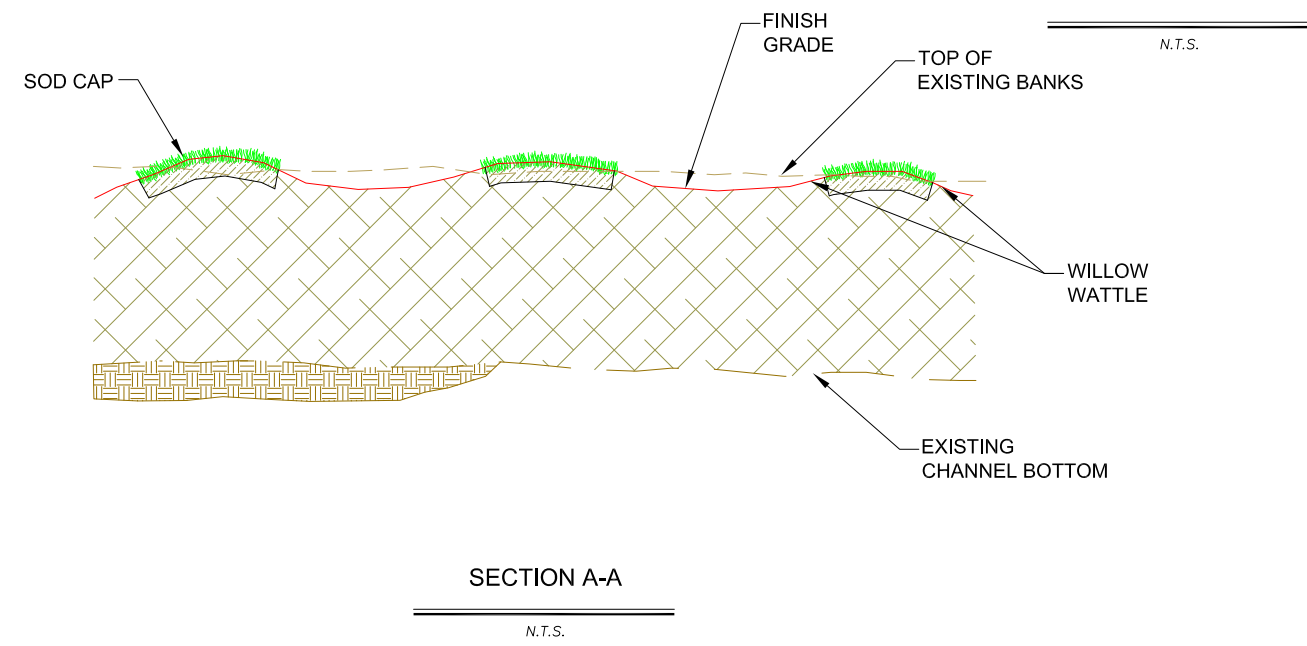
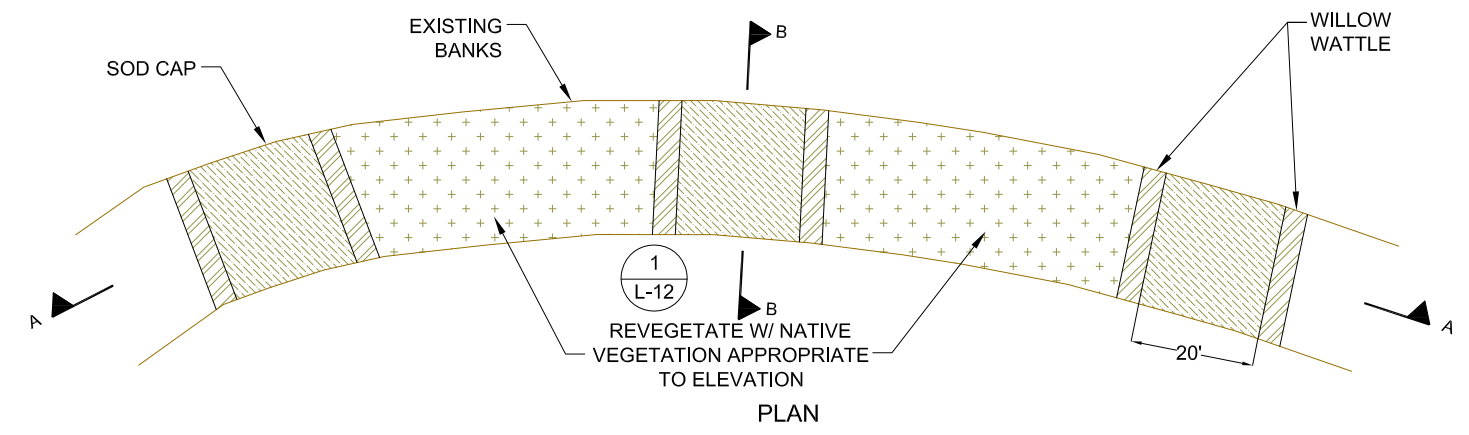
REVISIONS

#	description	date

scale: AS SHOWN  
job no.: 00110066.04  
drawn by: CK  
checked by: CM

sheet no.: D-8

sheet 33 of 45  
date: 11/20/07



SCHEMATIC DESIGN PLANS & DETAILS NOT FOR CONSTRUCTION

UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

E.I.P. # 560



870 Emerald Bay Road, Suite 400  
South Lake Tahoe, CA 96150  
Tel: 530.543.5100 Fax: 530.543.5150



295 Highway 50, suite 1  
Zephyr Cove, NV 89448  
Tel: 775.588.9069

DETAILS

D-9

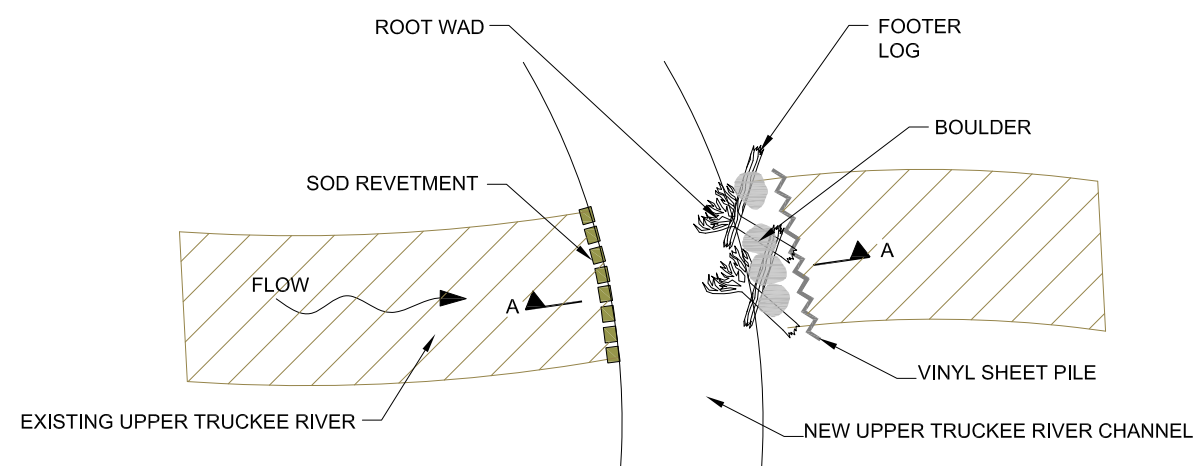
REVISIONS  
# description date

#	description	date

scale: AS SHOWN  
job no.: 00110066.04  
drawn by: CK  
checked by: CM

sheet no.: D-9

sheet 34 of 45  
date: 11/20/07

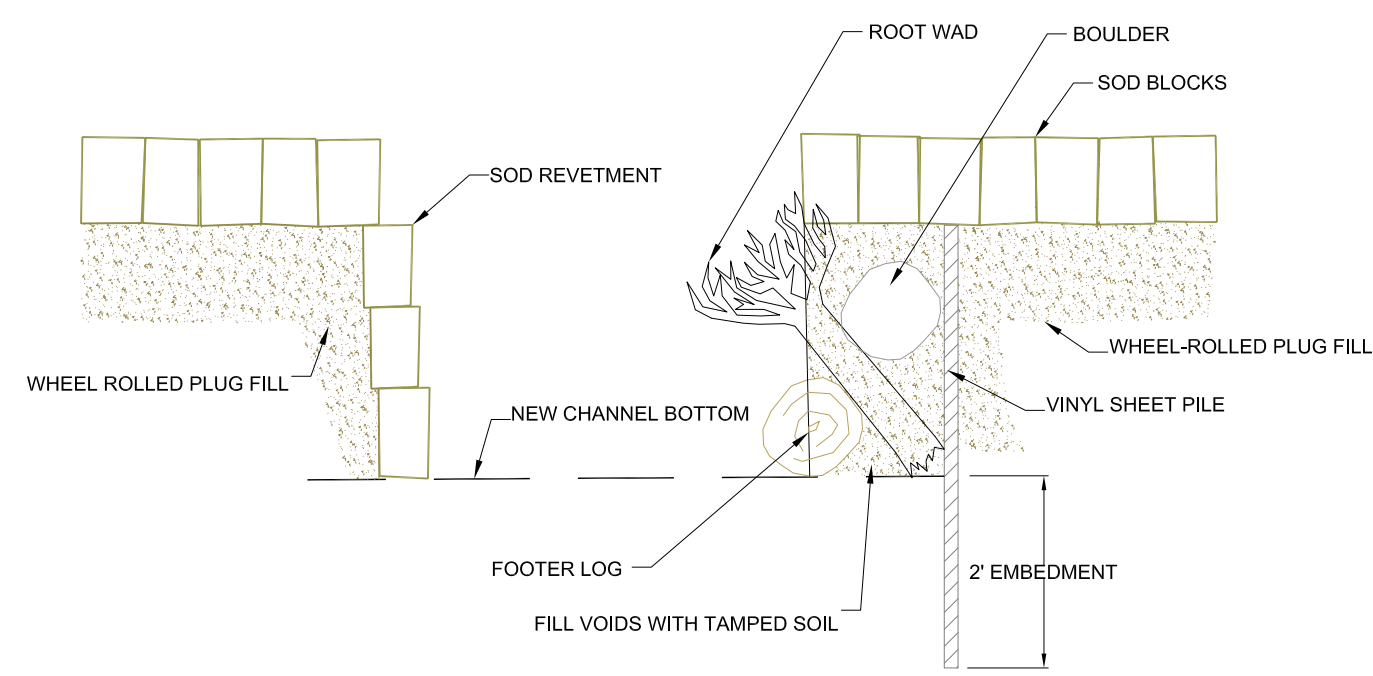


NOTES:

1. BOULDERS SHALL BE ¼ TO ½ TONS EACH.
2. FOOTER LOGS SHALL BE 8-12 INCHES IN DIAMETER AND 10-16 FEET IN LENGTH.
3. ROOTWADS SHALL HAVE A BOLE DIAMETER OF 8-16 INCHES AND A LENGTH OF 10-15 FEET.
4. ANGLES AND ELEVATIONS OF ROOT WADS SHALL VARY.
5. ROOT FANS SHALL BE 3-5 FEET IN DIAMETER.
6. FOOTER LOG SHALL EXTEND 4 FEET PERPENDICULARLY ON EITHER SIDE OF THE ROOT WAD.

PLAN

N.T.S.



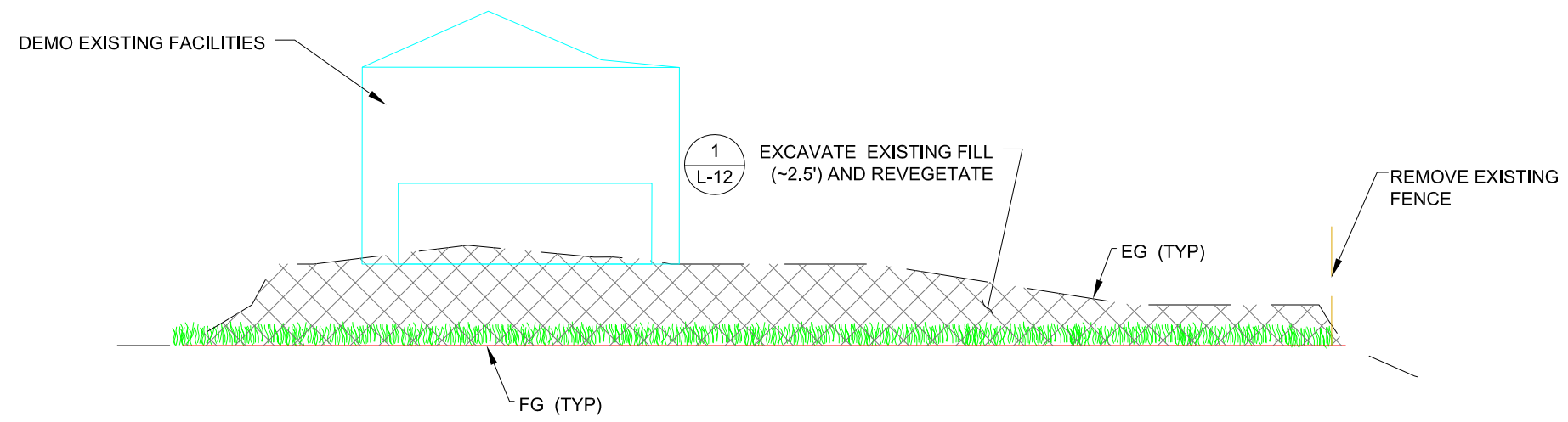
SECTION A-A

N.T.S.



LATERAL GRADE CONTROL

N.T.S.



TKPOA YARD RESTORATION

N.T.S.



SCHEMATIC DESIGN PLANS & DETAILS  
NOT FOR CONSTRUCTION

SCHEMATIC DESIGN PLANS  
& DETAILS  
NOT FOR CONSTRUCTION

NOTES:  
MIN. = MINIMUM RECREATION INFRASTRUCTURE  
MOD. = MODERATE RECREATION INFRASTRUCTURE  
MAX. = MAXIMUM RECREATION INFRASTRUCTURE

NOTE: WHERE TITLED "BIKE TRAIL" SHALL MEAN THE SAME AS "BIKE PATH".



UPPER TRUCKEE RIVER  
AND MARSH RESTORATION  
PROJECT

E.I.P. # 560

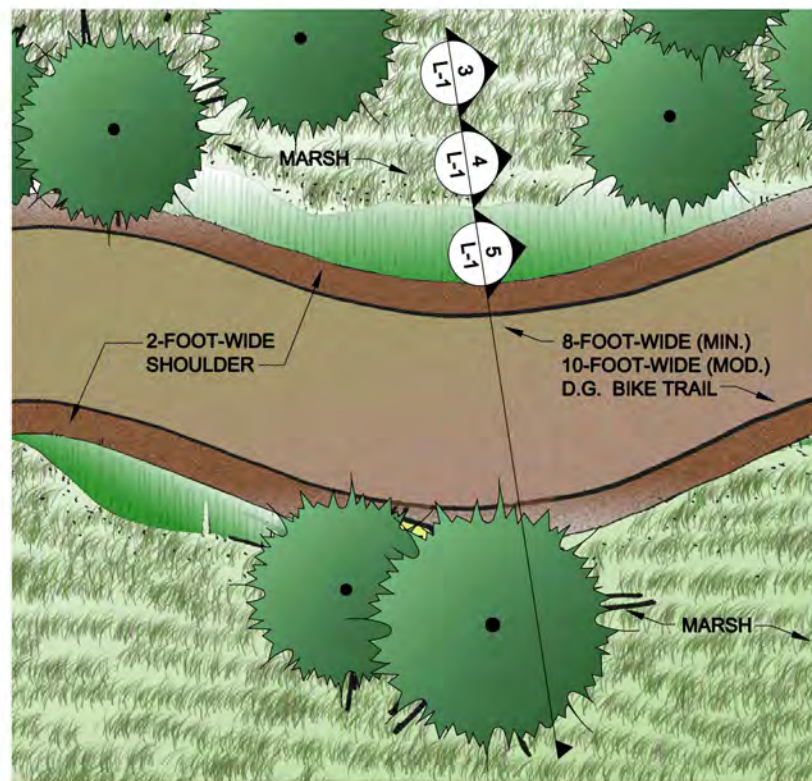


870 Emerald Bay Road, Suite 400  
South Lake Tahoe, CA 96150  
Tel: 530.543.5100 Fax: 530.543.5150

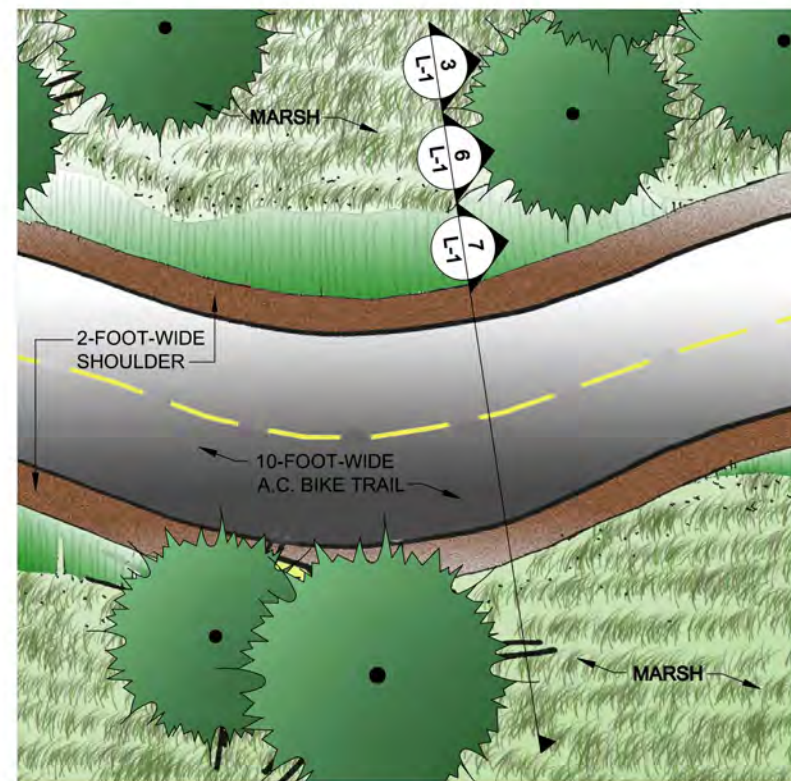


1048 Ski Run Blvd.  
South Lake Tahoe, CA 96150  
Tel: 530.542.0201 Fax: 530.542.4401

BIKE TRAIL



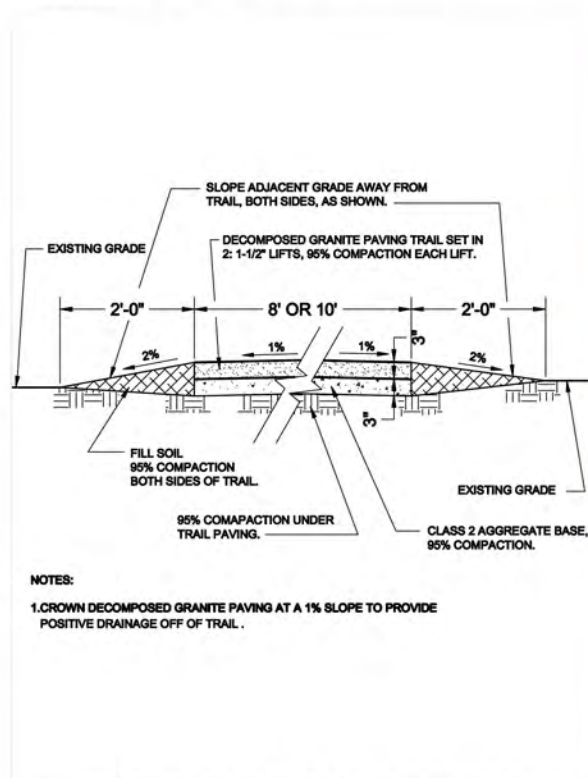
1 D.G. BIKE TRAIL (MIN./MOD.)  
L-1 SCALE: NTS PLAN VIEW



2 A.C. BIKE TRAIL (MAX.)  
L-1 SCALE: NTS PLAN VIEW



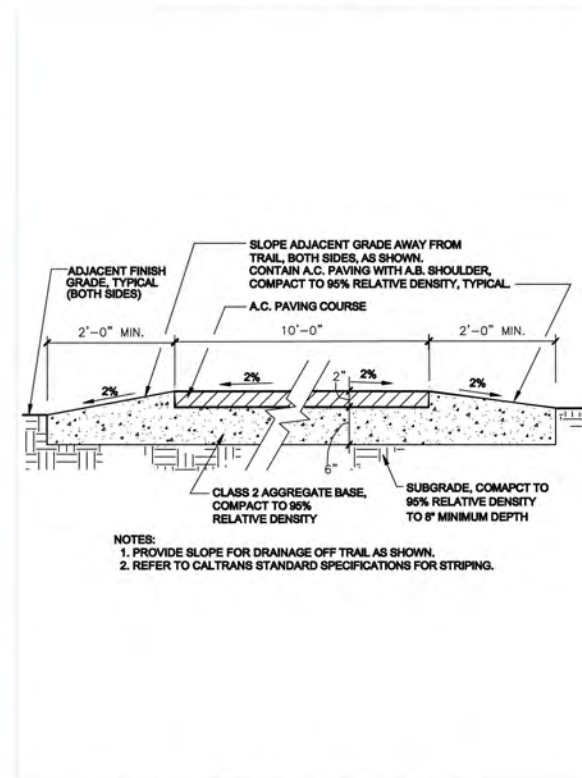
3 D.G./A.C. BIKE TRAIL (MIN./MOD./MAX.)  
L-1 SCALE: NTS ELEVATION



4 D.G. BIKE TRAIL (MIN./MOD.)  
L-1 SCALE: NTS SECTION



5 D.G. BIKE TRAIL (MIN./MOD.)  
L-1 SCALE: NTS REPRESENTATIVE EXAMPLE



6 A.C. BIKE TRAIL (MAX.)  
L-1 SCALE: NTS SECTION



7 A.C. BIKE TRAIL (MAX.)  
L-1 SCALE: NTS REPRESENTATIVE EXAMPLE

REVISIONS		
#	description	date

scale: NOT TO SCALE  
job no.: 00110066.04  
drawn by: ML  
checked by: JZ

sheet no.: L-1

sheet 35 of 45  
date: 05/02/12

P:\2000\00110066.04 Upper Truckee River & Wetlands Restoration\Schematic Design\Plans\Graphics\UTR&M Landscape Plans\cod\Conceptual Landscape Details\0071205.dwg



P:\2000\00110066.04 Upper Truckee River & Wetlands Restoration\Schematic Design Plans\Graphics\UTR&M Landscape Plans\cod\Conceptual Landscape Details\20071205.dwg

**SCHEMATIC DESIGN PLANS  
& DETAILS  
NOT FOR CONSTRUCTION**

**NOTES:**  
MIN. = MINIMUM RECREATION INFRASTRUCTURE  
MOD. = MODERATE RECREATION INFRASTRUCTURE  
MAX. = MAXIMUM RECREATION INFRASTRUCTURE



**UPPER TRUCKEE RIVER  
AND MARSH RESTORATION  
PROJECT**

E.I.P. # 560



870 Emerald Bay Road, Suite 400  
South Lake Tahoe, CA 96150  
Tel: 530.543.5100 Fax: 530.543.5150



1048 Ski Run Blvd.  
South Lake Tahoe, CA 96150  
Tel: 530.542.0201 Fax: 530.542.4401

**FOOT TRAIL**

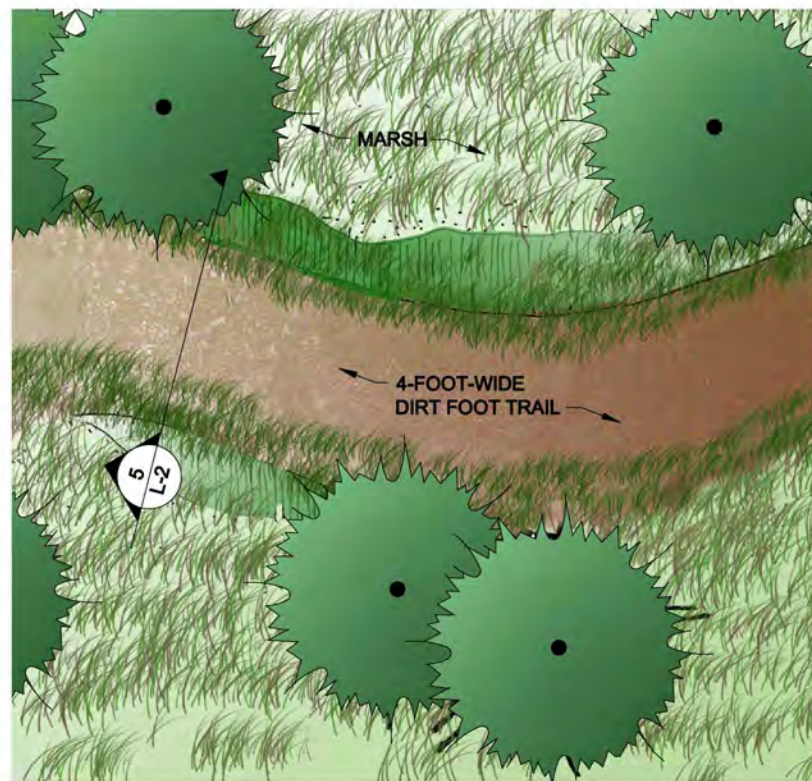
**L-2**

REVISIONS		
#	description	date

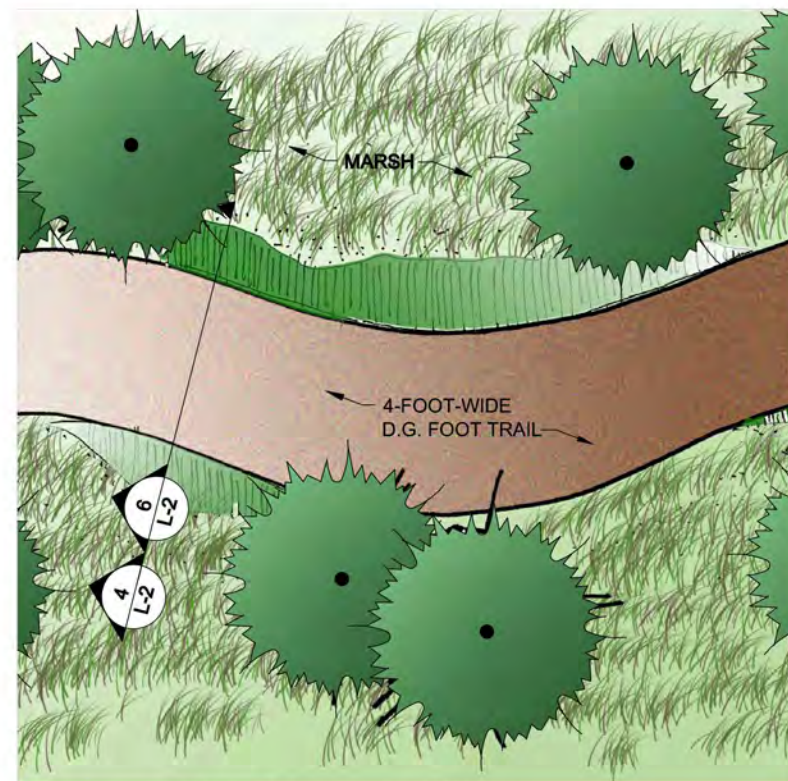
scale: NOT TO SCALE  
job no.: 00110066.04  
drawn by: ML  
checked by: JZ

sheet no.: L-2

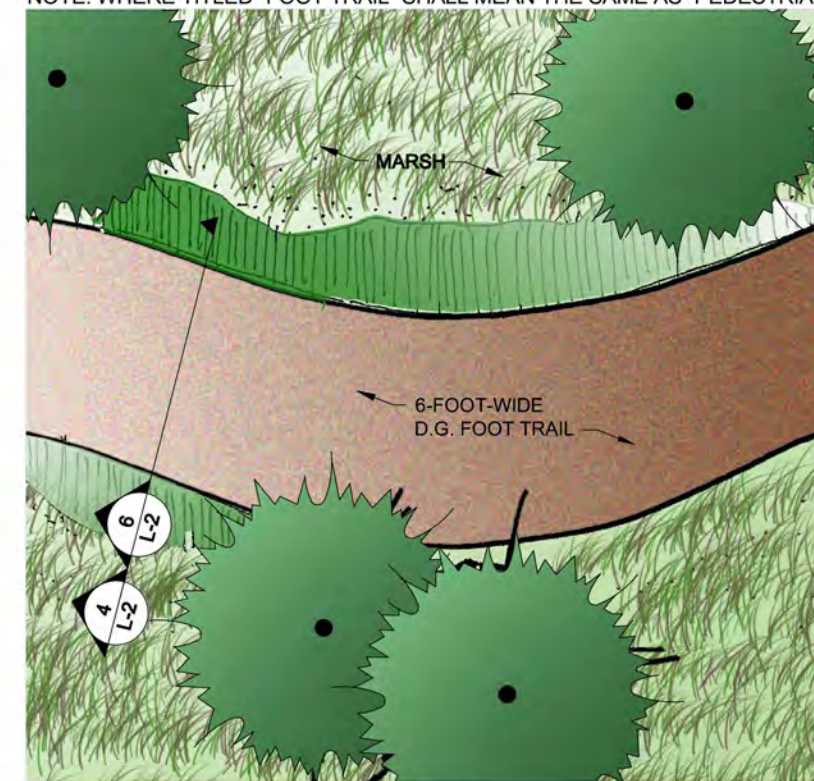
sheet 36 of 45  
date: 05/02/12



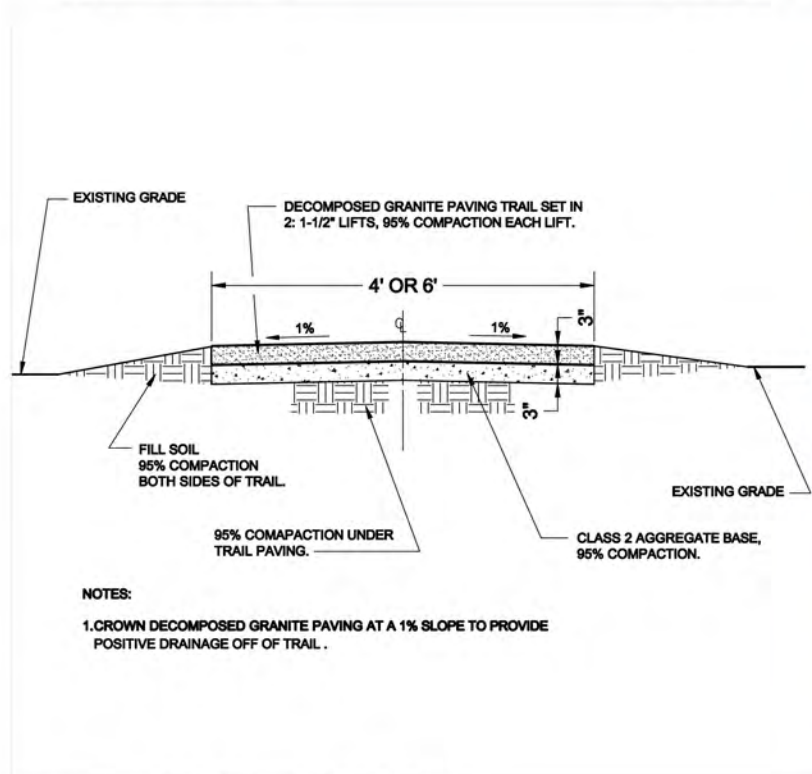
**1 FOOT TRAIL (MIN.)**  
SCALE: NTS PLAN VIEW



**2 FOOT TRAIL (MOD.)**  
SCALE: NTS PLAN VIEW



**3 FOOT TRAIL (MAX.)**  
SCALE: NTS PLAN VIEW



**4 FOOT TRAIL (MAX.)**  
SCALE: NTS SECTION



**5 FOOT TRAIL (MIN.)**  
SCALE: NTS REPRESENTATIVE EXAMPLE



**6 FOOT TRAIL (MOD./MAX.)**  
SCALE: NTS REPRESENTATIVE EXAMPLE