

LAKE

TAHOE

EMERALD BAY

VICINITY MAP

N.T.S

MEYERS

U.S. HWY. 50° TO PLACERVILLE AND SACRAMENT

STATELINE

HWY. 89 TO MARKLEEVILLE

# CALIFORNIA DEPARTMENT OF GENERAL SERVICES



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REVEGETATION SECTION & PLANT LIST

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DOWNSTREAM BARTON BEACH



E.I.P. # 560



Reno, NV 89501 Tel: 775-227-9565



295 Highway 50, Suite 1 Zephyr Cove, NV 89448 Tel: 775.588,9069

### TITLE SHEET

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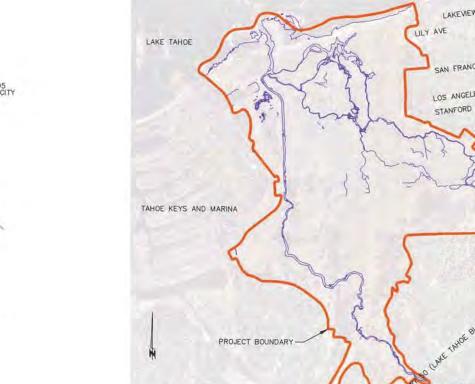
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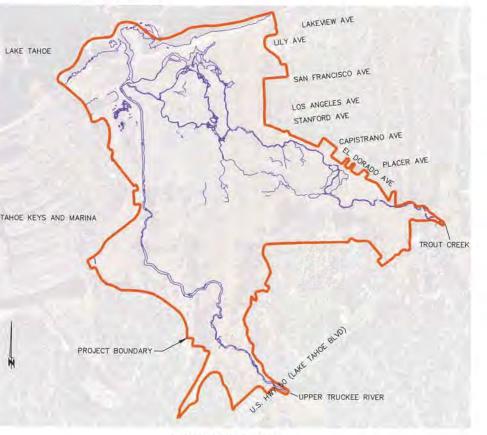
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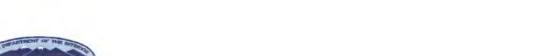
# CALIFORNIA TAHOE CONSERVANCY UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

PREFERRED ALTERNATIVE



LOCATION MAP SOUTH LAKE TAHOE, EL DORADO COUNTY, CA





- CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS
- THE LOCATIONS AND EXTENT OF EXISTING UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE EXISTING UTILITIES BASED UPON AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE EXISTING UTILITIES WITHIN THE WORK AREA BEFORE COMMENCING WORK. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT (800) 227-2600 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. SEE SPECIAL PROVISIONS FOR CONTRACTOR NOTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
- UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION
- THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION AND MUTCD
- THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTRACT AND STANDARD SPECIFICATIONS
- THERE SHALL BE NO GRADING OR LAND DISTURBANCE PERFORMED WITH RESPECT TO THE PROJECT BETWEEN OCTOBER 15 AND MAY 1 UNLESS A GRADING EXEMPTION IS OBTAINED FROM THE TAHOE REGIONAL PLANNING AGENCY (TRPA). APPROVALS FOR GRADING BETWEEN OCTOBER 15 AND MAY 1 MUST ALSO BE OBTAINED FROM THE REGIONAL WATER QUALITY CONTROL BOARD, LAHONTAN. IF REQUIRED, THE COUNTY SHALL OBTAIN THESE
- THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUPPLY TO THE AGENCIES A SET OF PLANS, MARKED UP TO THE SATISFACTION OF THE AGENCIES, REFLECTING THE AS-CONSTRUCTED
- ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE FACILITY SHOWN UNLESS OTHERWISE NOTED.
- 10. AT NO TIME SHALL THE CONTRACTOR UNDERTAKE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR SEWER SYSTEMS. WITHOUT PRIOR APPROVAL FROM THE SOUTH TAHOE PUBLIC UTILITY DISTRICT (STPUD). APPROVAL SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE TIME THAT THE INTERRUPTION OF THE EXISTING SYSTEM IS REQUIRED. ANY INTERRUPTION OF SERVICE TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS. WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD, IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, THE CONTRACTOR MUST ADVISE STPUD.
- 11. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK IS CONTROLLED IN CONFORMANCE WITH THE SPECIAL PROVISIONS, THE PROVISIONS THE STANDARD SPECIFICATIONS, COUNTY AND LOCAL ORDINANCES. SEE SPECIAL PROVISIONS REGARDING SWEEPING, DUST CONTROL AND TRACKING
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE DOT SHALL CONTACT TRPA PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY
- 13. CONSTRUCTION LIMITS SHOWN ON THE PLANS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS OUTSIDE THE COUNTY STREET RIGHT-OF-WAY. CONSTRUCTION LIMIT FENCING SHALL BE ERECTED ALONG THESE BOUNDARIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN THE CONSTRUCTION LIMITS. EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED. SEE SPECIAL PROVISIONS REGARDING PAYMENT
- 14. ALL REVEGETATION SHOWN ON THE PLANS IS TO BE COMPLETED BY OTHERS, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.
- 16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF BID PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK

- 17. ELEVATIONS SHOWN ON THE PLANS FOR PIPE INVERTS, TOPS OF GRATES, RIMS, CURBS, ETC., ARE BASED UPON THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY THE DGS OF ANY DISCREPANCIES, WHICH MIGHT AFFECT PROPER OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND AND PRIOR TO FACILITY INSTALLATION. THE DOT SHALL BE CONTACTED IN THE EVENT ELEVATIONS ARE INCORRECT SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO THE INSTALLATION OF THE FACILITIES, AS SET FORTH IN THE SPECIAL PROVISIONS
- 18. THE CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY DGS, AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK, SEE SPECIAL PROVISIONS
- 19. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR ALL SUBMITTALS REQUIRED FOR DGS REVIEW AND ACCEPTANCE
- 20. THE DGS WILL FURNISH THE CONSTRUCTION STAKING TO THE CONTRACTOR AS SET FORTH IN THE SPECIAL
- 21. CONTRACTOR SHALL NOTE THAT THE PLANS SHOW BOTH HORIZONTAL AND SLOPE (ACTUAL) LENGTHS FOR PIPE. SEE SPECIAL PROVISIONS FOR THE MAXIMUM ALLOWABLE DEFLECTION ANGLE AT EACH PIPE JOINT
- 22. THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS AND SPECIFICATIONS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS.
- 23. NO TREES OR WETLAND VEGETATION SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE PLANS, OR AS DIRECTLY SPECIFIED ON-SITE BY THE PROJECT MANAGEMENT STAFF. ALL TREES CONFLICTING WITH GRADING SHALL BE TRIMMED. NO GRADING SHALL TAKE PLACE WITHIN THE DRIP LINE OF TREES NOT TO BE REMOVED UNLESS OTHERWISE APPROVED.
- 24. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AND THE STATE OFFICE OF HISTORIC PRESERVATION AND A QUALIFIED ARCHEOLOGIST SHALL BE NOTIFIED IMMEDIATELY
- 25. PERMIT CONDITIONS MAY CONTAIN SPECIFIC REQUIREMENTS FOR THE CONTROL OF OFF-SITE TURBIDITY FROM PROJECT OPERATIONS. TURBIDITY WILL BE MONITORED ON A FREQUENT BASIS BY THE PROJECT MANAGEMENT AND INSPECTION STAFF ON-SITE. TURBIDITY AMOUNTS IN EXCESS OF THE PERMITTED AMOUNT AND/OR DURATIONS WILL CAUSE WORK TO BE STOPPED UNTIL IMPROVED PRACTICES ARE IN EFFECT AND THE PROBLEMS CONTROLLED. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ANY PROJECT DELAYS THAT OCCUR BY NATURE OF THIS FAILURE TO ADEQUATELY CONTAIN SEDIMENT ON-SITE
- 26. THE NEW CHANNEL ALIGNMENTS FOR THE PREFERRED ALTERNATIVE ARE DEPICTED ON THESE PLANS ARE APPROXIMATE AND ARE NOT INTENDED TO REPRESENT THE CONSTRUCTED ALIGNMENT

### **ABBREVIATIONS**

Α	ASPEN	FL	FLOWLINE
ABAND	ABANDONED	FS	FINISH SURFACE
AC	ASPHALT CONCRETE	G	GAS
APN	ASSESSOR'S PARCEL NUMBER	IE -	INVERT ELEVATION
BLVD	BOULEVARD	INST	INSTALL
CA	CALIFORNIA	IB	ISOLATION BARRIER
CALC'S	CALCULATIONS	LF	LINEAR FEET
CF	CUBIC FEET OR CURB FACE	LT	LEFT
CIR	CIRCLE	LT BLVD	LAKE TAHOE BLVD
CLF	CENTERLINE	MISC	MISCELLANEOUS
CLF	CONSTRUCTION LIMIT FENCE	N	NORTH
CLR	CLEAR	NTS	NOT TO SCALE
CO.	COUNTY	OH	OVERHEAD
CONC	CONCRETE	P	PINE
CONST	CONSTRUCT	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	PP	POWER/UTILITY POLE
CT	CALTRANS OR COURT	PROP	PROPOSED
CTC	CALIFORNIA TAHOE CONSERVANCY	PUE	PUBLIC UTILITY EASEMENT
CA.	CUBIC YARD	RD	ROAD
DET	DETAIL	REF	REFERENCE
DGS	DEPARTMENT OF GENERAL SERVICES	ROW	RIGHT-OF-WAY
DI	DRAINAGE INLET	RSP	ROCK SLOPE PROTECTION
DIA OR Ø	DIAMETER	RT	RIGHT
DISS	DISSIPATER	S	SOUTH OR SANITARY SEWER
DR	DRIVE	SD	STORM DRAIN
D/W	DRIVEWAY	SDMH	STORM DRAIN MANHOLE
E	EAST	SF	SQUARE FEET
EA	EACH	SHT	SHEET
EG	EXISTING GRADE	SS	SANITARY SEWER
ELEV	ELEVATION	ST	SEDIMENT TRAP OR STREET
ELEC	ELECTRIC	STA	STATION
EP	EDGE OF PAVEMENT	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
EX	EXISTING	TRPA	TAHOE REGIONAL PLANNING AGENCY
F	FIR	TYP	TYPICAL
FES	FLARED END SECTION	USFS	UNITED STATES FOREST SERVICE
FF	FILTER FENCE	W	WEST OR WATER
FG	FINISHED GRADE	W/	WITH
FH	FIRE HYDRANT	W/O	WITHOUT

UTILITIES

AT&T, (916) 453-6136

CHARTER COMMUNICATIONS, (775) 850-1290.

CITY OF SOUTH LAKE TAHOE, DPW (530) 542-6030

SOUTHWEST GAS CO., (775) 887-2872

LIBERTY ENERGY, (530) 541-2040

SOUTH TAHOE PUD, (530) 543-5247

CABLE TELEVISION

NATURAL GAS

SEWER & WATER

ELECTRIC

TELEPHONE

STORM DRAIN

# HORIZONTAL AND VERTICAL CONTROL/PROJECTION

VERTICAL CONTROL IS NAVD 88: HORIZONTAL CONTROL IS CALIFORNIA STATE PLANE, ZONE 2, NAD 83 (FEET):

04

TREE, DIAMETER AND TYPE

EXISTING CHANNEL ALIGNMENT

STATION NUMBER AND MARKER

SCHEMATIC DESIGN PLANS & DETAILS NOT FOR CONSTRUCTION

### LEGEND

NOTE: LEGEND PROVIDED ON SHEET SUPERCEDES THIS LEGEND EXISTING PROPOSED MAJOR CONTOUR FOOT TRAIL MINOR CONTOUR PIPE (MATERIAL AS NOTED) WATERS EDGE FILL STRUCTURE BOUNDARY CUT PROPERTY LINE BOULDER TOE PROTECTION FENCE LINE NEW FLOODPLAIN FOOT TRAIL SCOUR POOL WATER LINE POINT BAR SEWERLINE RESERVED ROCK DISSIPATER GAS LINE RESTORED DUNES STORM DRAIN STORMWATER TREATMENT AREA ELECTRIC LINE LILY LAGOON RESTORATION AREA ORDINARY HIGH MAJOR CONTOUR WATER LINE 6229' EXTENDING DOWN TO MINOR CONTOUR AN ELEVATION OF 6223' (BASED ON THE TAHOE YELLOW CRESS PROTECTED AREA LAKE TAHOE DATUM) BOARDWALK AC PAVEMENT BRIDGE WOODEN FOOT BRIDGE UTILITY EASEMENT GRADE CONTROL STRUCTURE POWER/UTILITY POLE UTILITY POLE & GUY ANCHOR NEW CHANNEL ALIGNMENT FIRE HYDRANT -DRAINAGE INLET RE-VEGETATION LIGHT POLE MANHOLE FISHING ACCESS UTILITY BOX

ADA ACCESSIBLE



**OBSERVATION AREA** 



SELF-SERVICE VISITORS CENTER



VIEWPOINT



DETAIL REFERENCE NUMBER SHEET NUMBER



UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

Reno, NV 89501 Tel: 775-227-9565



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

INDEX SHEET

# description date

scale: AS SHOWN job no. 00110066.04

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sheet no. ii

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sheet 2 of 25 date: 11/2015

### CONSTRUCTION PHASING PLAN

PREFERRED ALTERNATIVE CONSTRUCTION ACTIVITIES AND SCHEDULE

THE DRAFT EIR/EIS/EIS PRESENTS INFORMATION ABOUT THE LOCATION AND DURATION OF CONSTRUCTION ACTIVITIES THAT WOULD OCCUR YEARLY FOR EACH ACTION ALTERNATIVES IN TABLE 2-5AND ILLUSTRATES THE PROPOSED ACCESS LOCATIONS, PROPOSED HAUL ROUTES, AND POTENTIAL STORAGE/STAGING AREAS IN EXHIBITS 2-5 TO 2-8. FOR THE PREFERRED ALTERNATIVE, THE ANTICIPATED CONSTRUCTION ACTIVITIES THAT WOULD OCCUR EACH YEAR ARE DESCRIBED BELOW AND THE ACCESS LOCATIONS, PROPOSED HAUL ROUTES, AND POTENTIAL STORAGE/STAGING AREAS ARE SHOWN IN EXHIBIT 2-7. CONSTRUCTION ACTIVITIES WOULD OCCUR FROM 8:00 A.M. TO 6:30 P.M. PURSUANT TO SECTION 68.9 OF THE TRPA CODE OF ORDINANCES.

#### YEAR

YEAR 1 CONSTRUCTION ACTIVITIES WOULD COMMENCE WITH MOBILIZATION ACTIVITIES THAT WOULD TAKE UP TO 1 MONTH TO COMPLETE. THESE MOBILIZATION ACTIVITIES WOULD INCLUDE CONSTRUCTING STAGING AREAS AND HAUL ROADS, INSTALLING BMPS, AND PLACING SIGNAGE, EXPECTED ACTIVITIES WOULD INCLUDE DELIVERY AND STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS AND ESTABLISHING WORKER PARKING, PUBLIC ROADS WOULD BE USED TO ACCESS THE STAGING AREAS. ALL CONSTRUCTION EQUIPMENT AND HAUL TRUCKS WOULD OPERATE ON INTERNAL HAUL ROADS.

SUBSEQUENT ACTIVITIES WOULD INCLUDE MUCH OF THE EARTHWORK REQUIRED FOR THE RIVER AND FLOODPLAIN GRADING: LOWERING THE TERRACE SECTIONS AND RE-CONTOURING EXISTING SECONDARY CHANNELS (ON PRIVATE LANDS), AND CONSTRUCTING THE PILOT CHANNEL AND ITS VERTICAL GRADE CONTROL.. THESE ACTIVITIES WOULD REQUIRE 1-3 MONTHS TO COMPLETE.

SIGNIFICANT EXCAVATION AND SOIL MOVEMENT ACTIVITIES WOULD OCCUR ON-SITE IN YEAR 1. THE EXCAVATED MATERIAL THAT IS NOT REQUIRED FOR REUSE IN THE SAME YEAR WOULD BE EITHER STOCKPILED TEMPORARILY ON SITE AT ONE OF THE STORAGE AREAS PRIORITIZING THOSE OUTSIDE OF THE 100-YEAR FLOODPLAIN. THE EXCAVATED MATERIALS WOULD BE TRANSPORTED TO THE STAGING AREAS ON INTERNAL HAUL ROADS. THE MATERIALS WOULD BE TEMPORARILY STORED IN STOCKPILES WITH HEIGHTS RANGING BETWEEN 3 AND 8 FEET. AFTER EXCAVATION, PERMANENT REVEGETATION AND TEMPORARY IRRIGATION WOULD BE INSTALLED IN WORK AREAS AT FINAL GRADE, AS SOON AS POSSIBLE.

DURING CONSTRUCTION OF CHANNELS, IT IS POSSIBLE THAT DEWATERING OF EXCAVATIONS (I.E., REMOVAL OF COLLECTED WATER) MAY BE REQUIRED. TO MINIMIZE THE POTENTIAL FOR DEWATERING, CONSTRUCTION ACTIVITIES WITHIN THE LIVE CHANNEL WOULD BE AVOIDED WHENEVER POSSIBLE. WHEN CONSTRUCTION WITHIN THE LIVE CHANNEL IS REQUIRED, BARRIERS WOULD BE USED TO ISOLATE THE WORK AREAS FROM ANY FLOWING WATER. SEEPAGE INTO THE ISOLATED WORK AREAS WOULD BE PUMPED AND USED FOR IRRIGATION AND DUST CONTROL. IF THE QUANTITIES OF WATER WERE TO EXCEED THE DEMANDS FOR DUST CONTROL OR COULD RESULT IN IRRIGATION RUNOFF, TEMPORARY AND PORTABLE DETENTION BASINS WOULD BE CONSTRUCTED, THE BASINS WOULD BE CREATED USING PORTABLE CONTAINMENT BERMS AND USED TO STORE AND TREAT THE GROUNDWATER EFFLUENT. THE STORED WATER WOULD BE USED FOR IRRIGATION OR DUST CONTROL OR TREATED TO MEET SURFACE-WATER DISCHARGE REQUIREMENTS AND DISCHARGED BACK INTO THE LIVE CHANNEL.

#### YEAR 2

DURING YEAR 2, REVEGETATION AND IRRIGATION WORK WOULD CONTINUE ON THE PILOT CHANNEL, SECONDARY CHANNELS, AND LOWERED FLOODPLAIN MODIFICATIONS. PORTIONS OF BANK PROTECTION WOULD BE CONSTRUCTED. THE STREAMBED AND BANK STABILIZATION ON LOWER TROUT CREEK WOULD BE COMPLETED. VERTICAL GRADE CONTROLS WOULD BE CONSTRUCTED AT THE DOWNSTREAM END OF THE SITE (BY THE TROUT CREEK CONFLUENCE AND AT THE RIVER MOUTH). OVERFLOW CULVERTS WOULD BE INSTALLED UNDER U.S. 50 THROUGH THE EMBANKMENT FILL.

THROUGHOUT THE CONSTRUCTION SEASON, THE REVEGETATION TREATMENTS CONDUCTED DURING YEAR 1 WOULD BE IRRIGATED AND INSPECTED.

WORK RELATED TO THE MODIFICATION OF THE SAILING LAGOON AND DUNE RESTORATION WOULD OCCUR DURING YEAR 2. THE LAGOON WOULD BE ISOLATED FROM THE TAHOE KEYS MARINA BY INSTALLING THE BULKHEAD AND LEVEE ALONG AND EAST OF THE TAHOE KEYS MARINA CHANNEL AND PERFORMING SOME OF THE WATER QUALITY PROTECTIONS AND INVASIVE ORGANISM CONTROLS. THE ISOLATED LAGOON WOULD BE DRAINED, RECONTOURED, AND REVEGETATED. RECONTOURING OF THE SAILING LAGOON WOULD ENTAIL EXCAVATING SEDIMENT, SOME OF WHICH MAY BE HAULED OFF-SITE TO AN OUT-OF-BASIN STORAGE IF NOT SUITABLE FOR REUSE IN THE DUNE RECONSTRUCTION AND/OR CHANNEL BACKFILL. THE GENERAL HAUL ROUTE FOR THE OFF-SITE SEDIMENT TRANSPORT WOULD LIKELY BE FROM VENICE DRIVE TO TAHOE KEYS BOULEVARD AND THEN TO U.S. 50. THE SAILING LAGOON MODIFICATION ACTIVITIES COULD TAKE AS LONG AS 4 MONTHS TO COMPLETE.

### YEAR 3

CONSTRUCTION OF PROJECT FEATURES WOULD BE COMPLETED DURING YEAR 3, ALONG WITH CONTINUED INSPECTION AND IRRIGATION OF REVEGETATION TREATMENTS INSTALLED IN YEARS 1 AND 2.

LAGOON AND DUNE RESTORATION WOULD BE COMPLETED IN YEAR 3. THE EASTERN END OF THE SAILING LAGOON WOULD BE RECONTOURED, AND THE LAGOON WOULD BE CONNECTED TO THE RIVER. FILL WOULD BE REMOVED BEHIND EAST BARTON BEACH TO RESTORE AND REVEGETATE LAGOON HABITAT.

CONSTRUCTION OF THE PILOT CHANNEL CONNECTION AND CONFLUENCE, INSTALLATION OF THE VERTICAL AND LATERAL GRADE CONTROLS IN THE MAIN CHANNEL, AND. WATER WOULD BE PUMPED INTO FINISHED CHANNEL SEGMENTS AND DIRECTED ONTO THE EXISTING VEGETATED MARSH SURFACES. FILL WOULD BE PLACED IN THE ABANDONED CHANNEL SECTIONS AND BE RECONTOURED; THE MODIFIED STORMWATER TREATMENT AREAS WOULD BE CONSTRUCTED. PERMANENT REVEGETATION AND TEMPORARY IRRIGATION WOULD BE INSTALLED IN ALL WORK AREAS AT FINAL GRADE.

PUBLIC-ACCESS AND RECREATION INFRASTRUCTURE WOULD BE CONSTRUCTED DURING YEAR 3, INCLUDING CONSTRUCTION OF TRAILS, THE OBSERVATION AREA, VIEWPOINT, KIOSK, AND THE ADA-ACCESSIBLE FISHING PLATFORM.

### YEAR 4

CONSTRUCTION ACTIVITIES IN YEAR 4 WOULD BE LIMITED TO REVEGETATION AND IRRIGATION INSPECTION AND MAINTENANCE, AND PROJECT SHUTDOWN. ALTHOUGH SOME GROUND DISTURBANCE WOULD BE ASSOCIATED WITH THESE ACTIVITIES, CUT AND FILL OF MATERIALS WOULD NOT BE SUBSTANTIAL. ALL WORK IN YEAR 4 WOULD UTILIZE EITHER THE VENICE DRIVE OR STAGING AREAS.



UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

E.I.P. # 560



City Hall Tower, 16th Floor One East First St. Reno, NV 89501 Tel: 775-227-9565



Cardno Shaping the Future

295 Highway 50, Suite 1 Zephyr Cove, NV 89448 Tel: 775,588.9069

> CONSTRUCTION PHASING

> > iii

REVISIONS # description date

job no.: O0110066.04

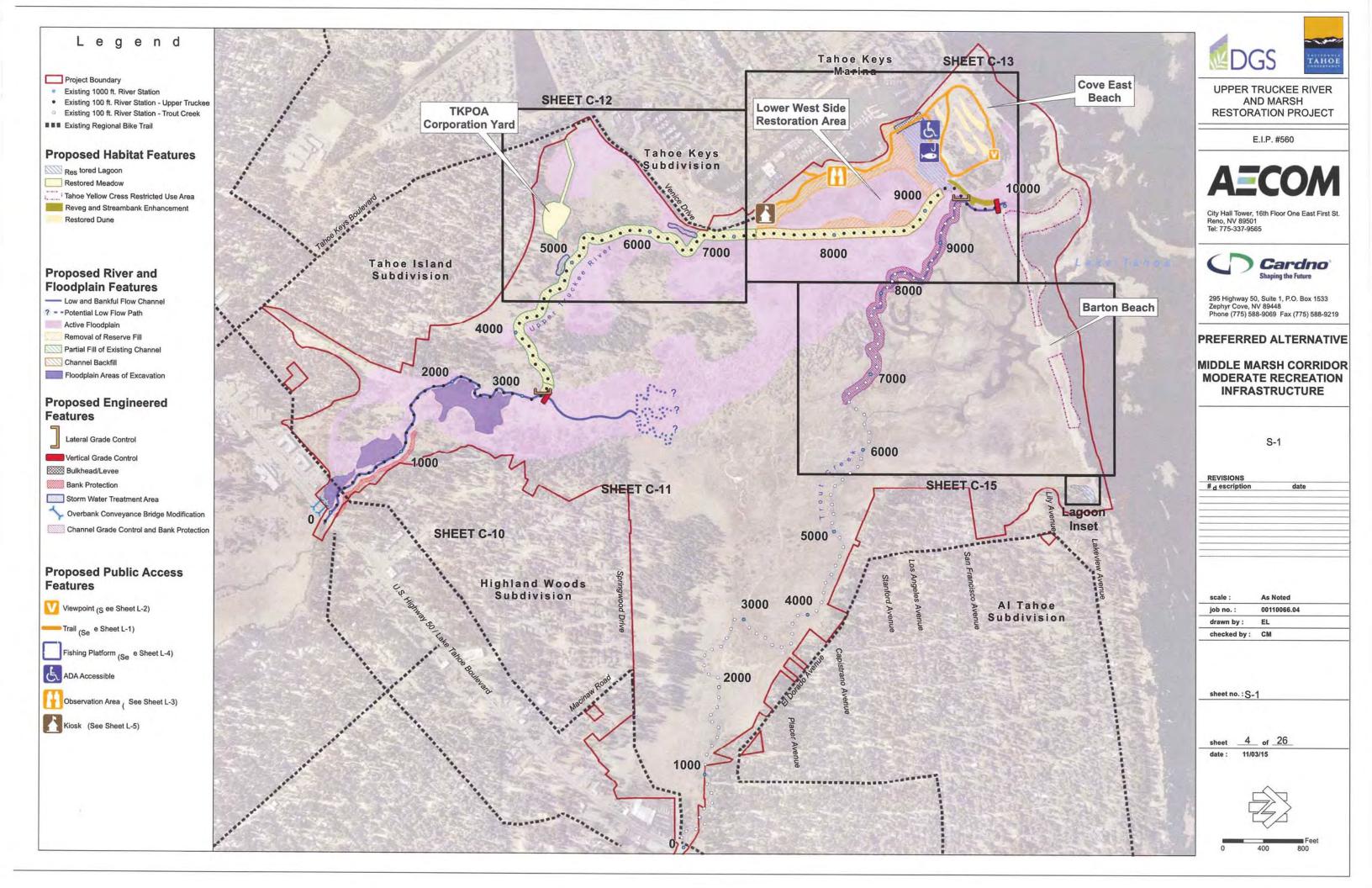
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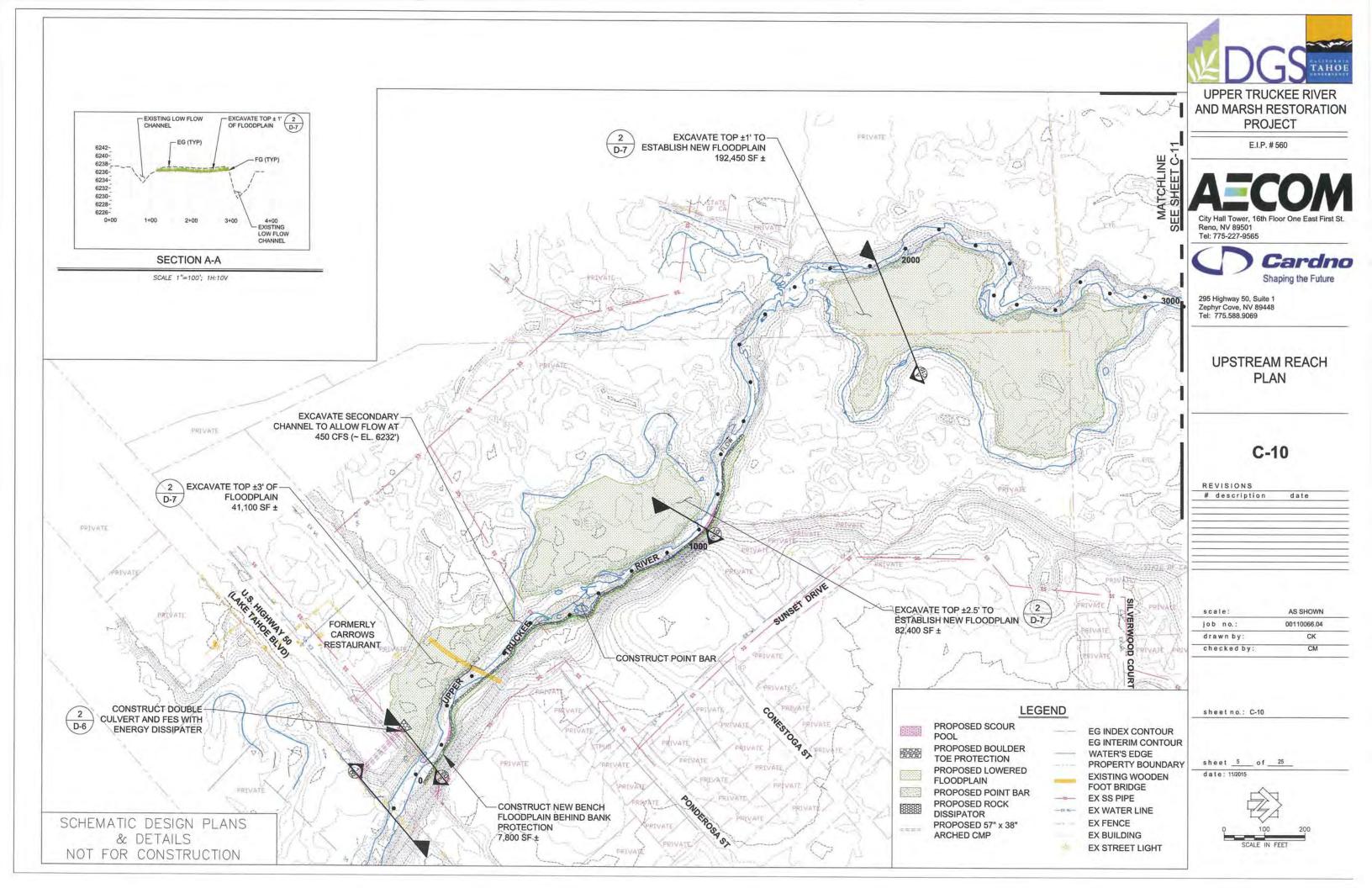
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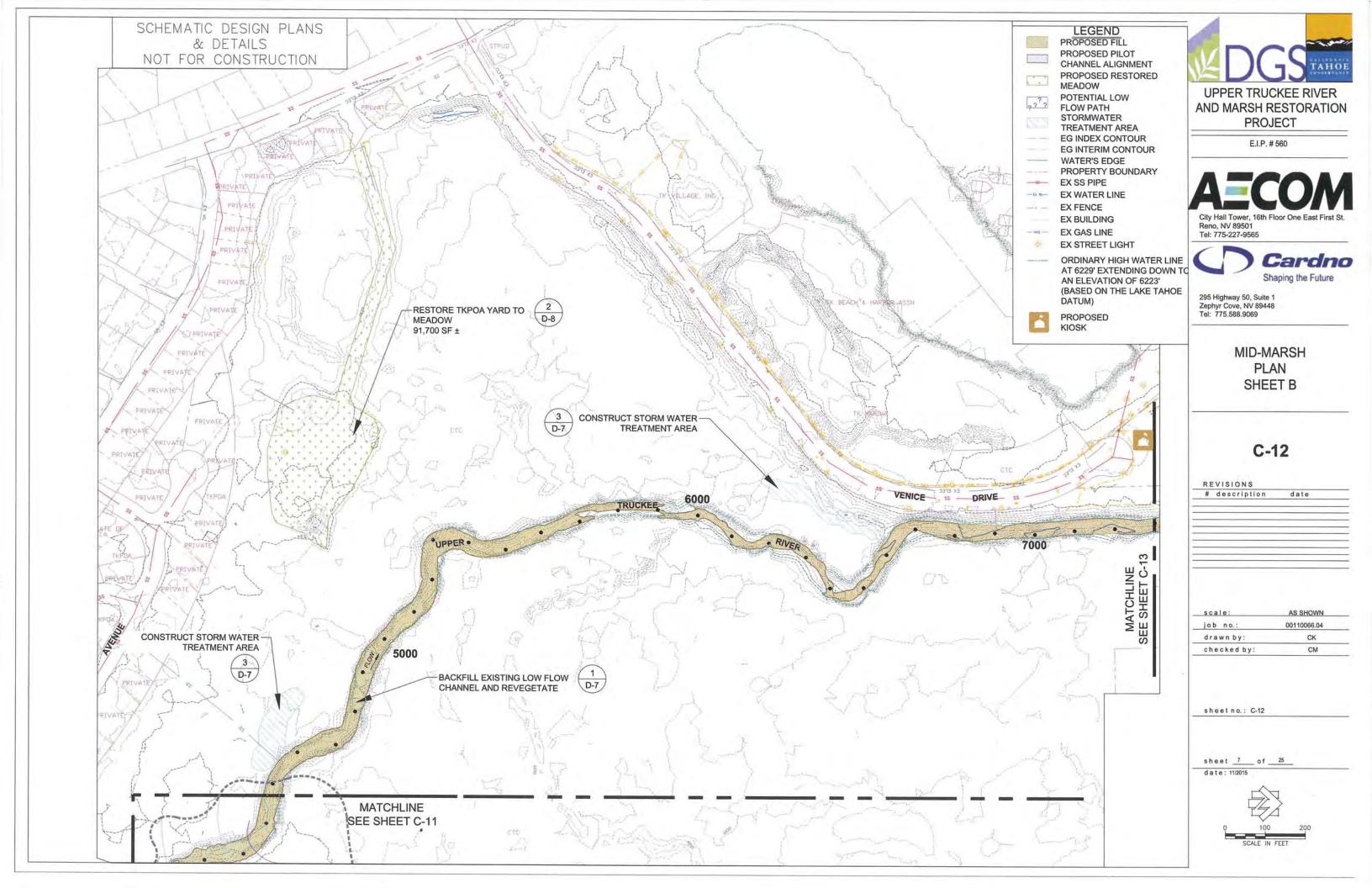
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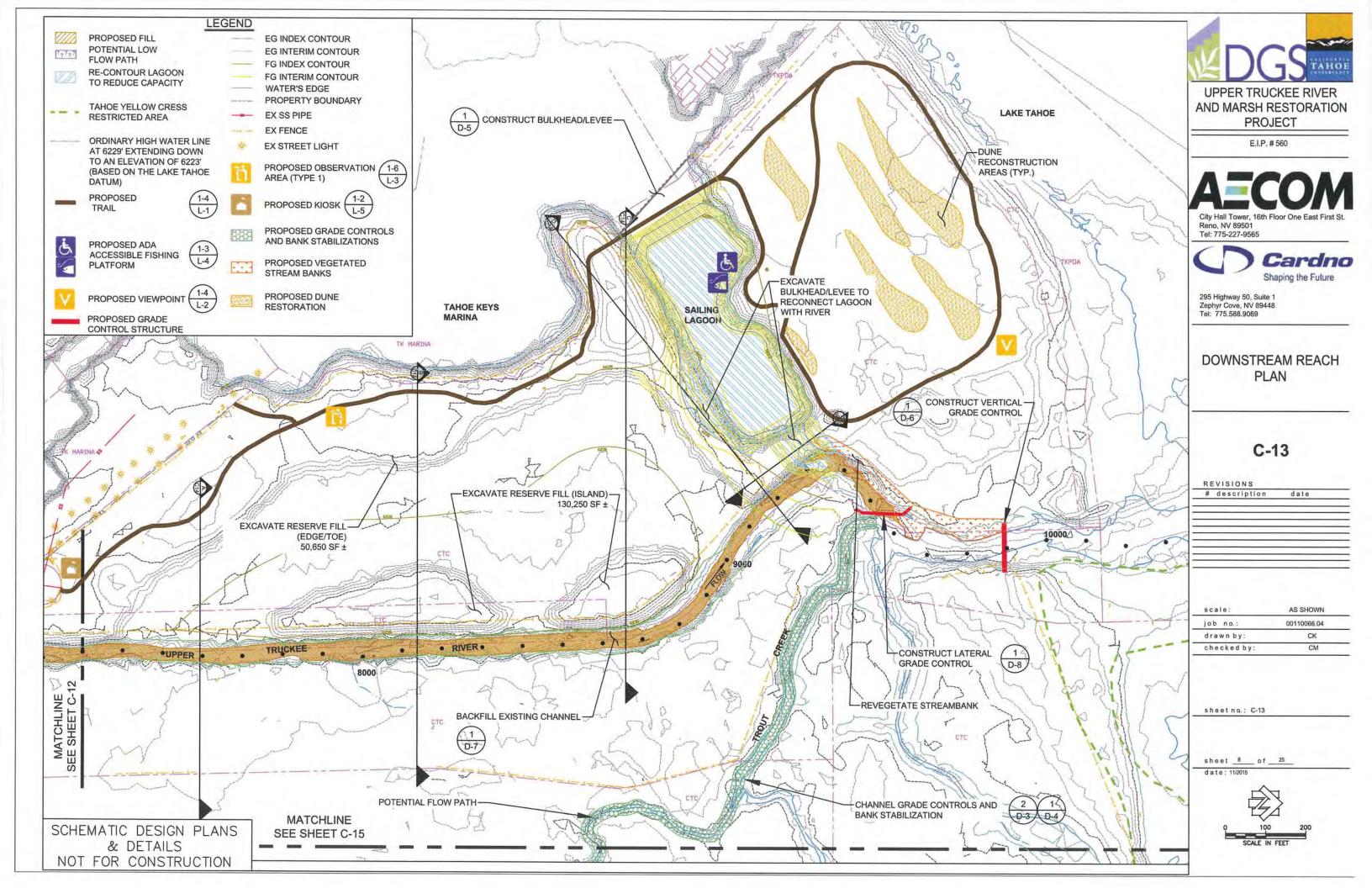
SCHEMATIC DESIGN PLANS
& DETAILS
NOT FOR CONSTRUCTION

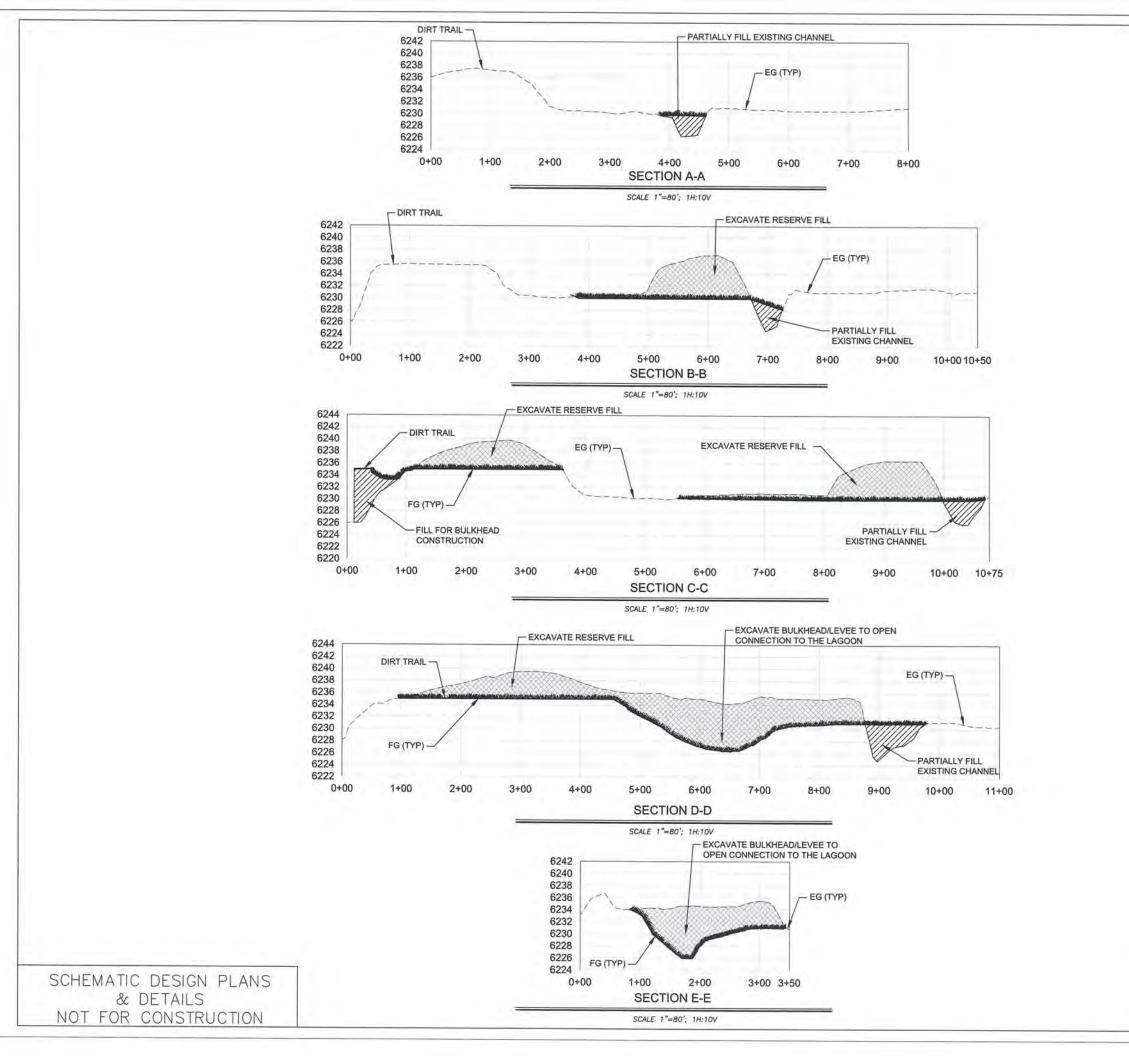




SCHEMATIC DESIGN PLANS & DETAILS NOT FOR CONSTRUCTION **UPPER TRUCKEE RIVER** AND MARSH RESTORATION **PROJECT** E.I.P. # 560 MATCHLINE SEE SHEET C-12 6234 City Hall Tower, 16th Floor One East First S Reno, NV 89501 Tel: 775-227-9565 6235, Cardno 4000 Shaping the Future BACKFILL EXISTING LOW FLOW CHANNEL AND REVEGETATE 295 Highway 50, Suite 1 Zephyr Cove, NV 89448 Tel: 775.588.9069 6235 MID-MARSH **PLAN** SHEET A 6235 CONSTRUCT LATERAL GRADE CONTROL D-8 6235 C-11 CONSTRUCT VERTICAL GRADE 1 D-4 CONTROL REVISIONS # description DO 3000 scale: AS SHOWN 00110066.04 job no.: 6234 CK drawn by: checked by: СМ POTENTIAL FLOW PATH-GRADING LIMITS (TYP.) sheet no.: C-11 **LEGEND** CONSTRUCT PILOT CHANNEL WITH FLARRED END (1,108 LF) PROPOSED FILL EG INDEX CONTOUR EG INTERIM CONTOUR PROPOSED PILOT sheet 6 of 25 WATER'S EDGE CHANNEL ALIGNMENT date: 11/2015 PROPERTY BOUNDARY POTENTIAL LOW FLOW PATH ORDINARY HIGH WATER D-1 D-5 D-3 LINE AT 6229' EXTENDING DOWN TO AN ELEVATION OF PROPOSED GRADE CONTROL STRUCTURE (BASED ON THE LAKE TAHOE DATUM) PROPOSED GRADING LIMITS









UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

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DOWNSTREAM REACH CROSS-SECTIONS

C-14

# description date

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

sheet no.: C-14

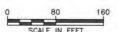
LEGEND

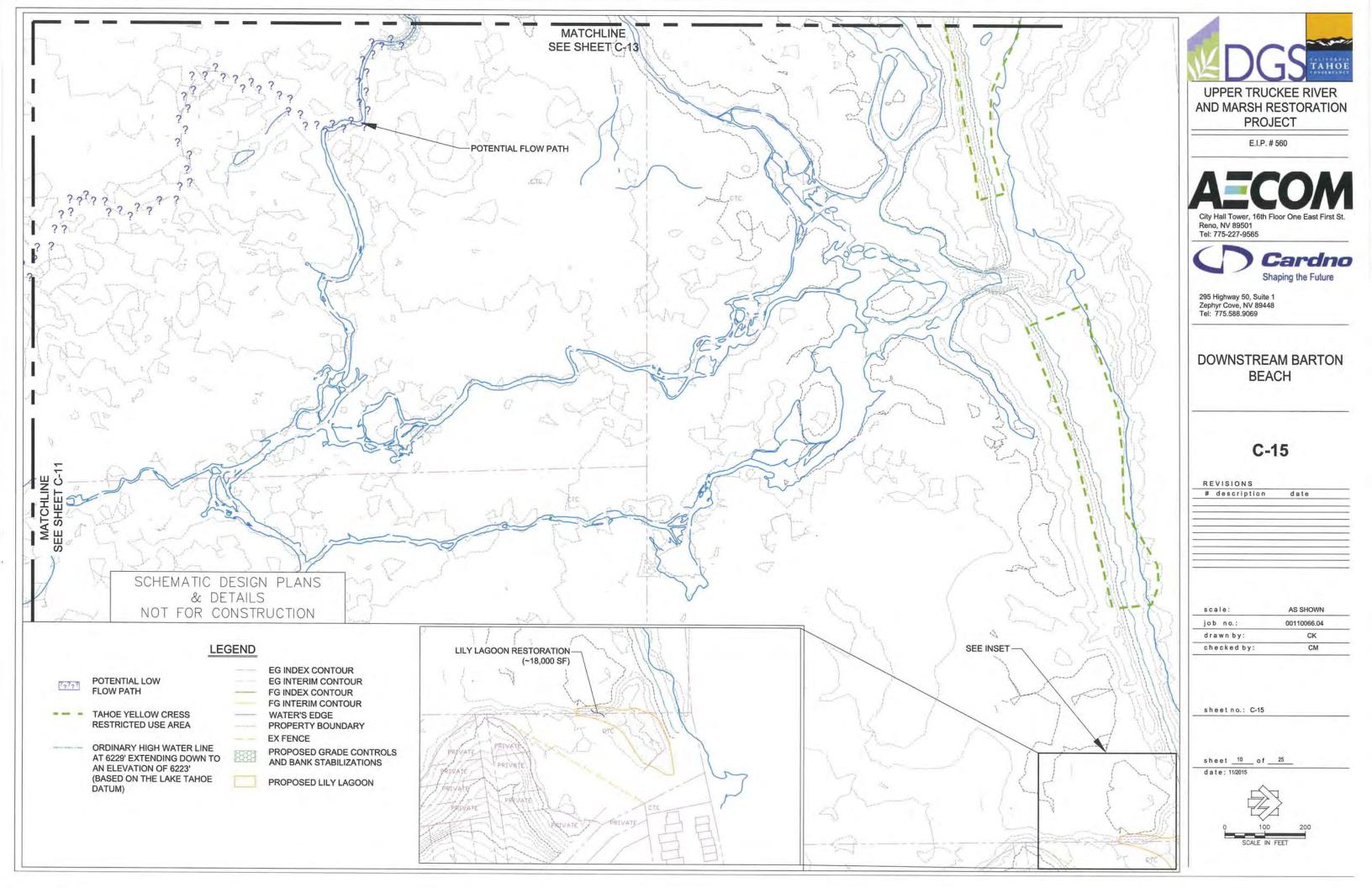
PROPOSED CUT

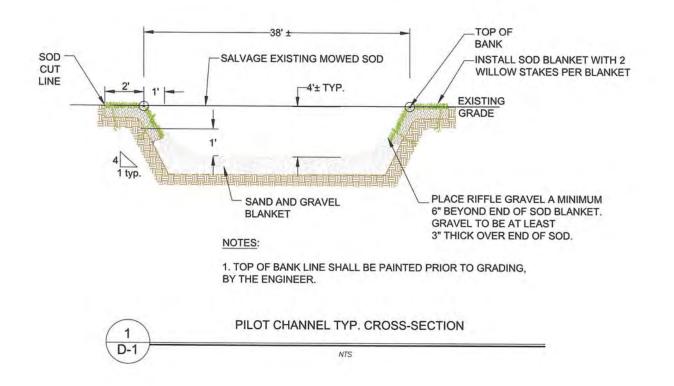
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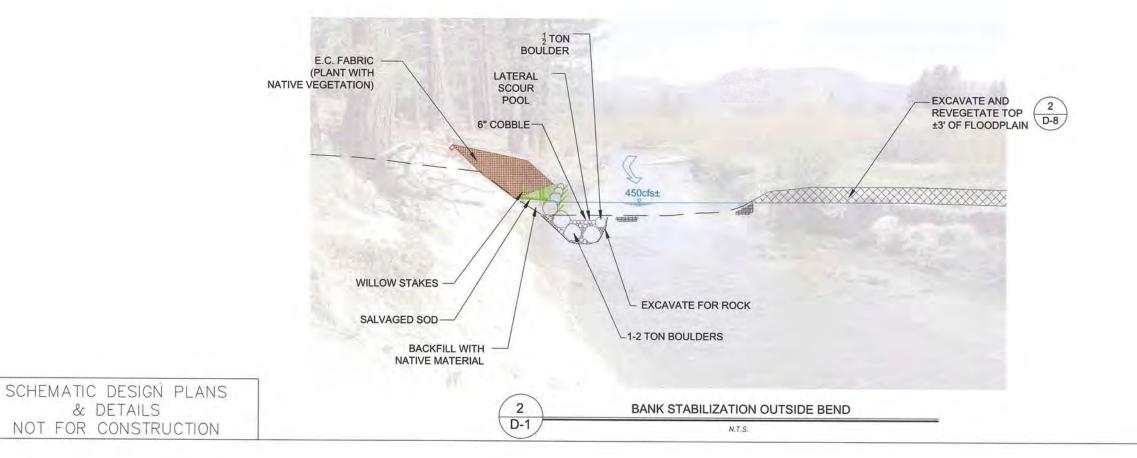
PROPOSED REVEGETATION

sheet 9 of 26 date: 04/2015









& DETAILS

UPPER TRUCKEE RIVER AND MARSH RESTORATION **PROJECT** 

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**DETAILS** 

D-1

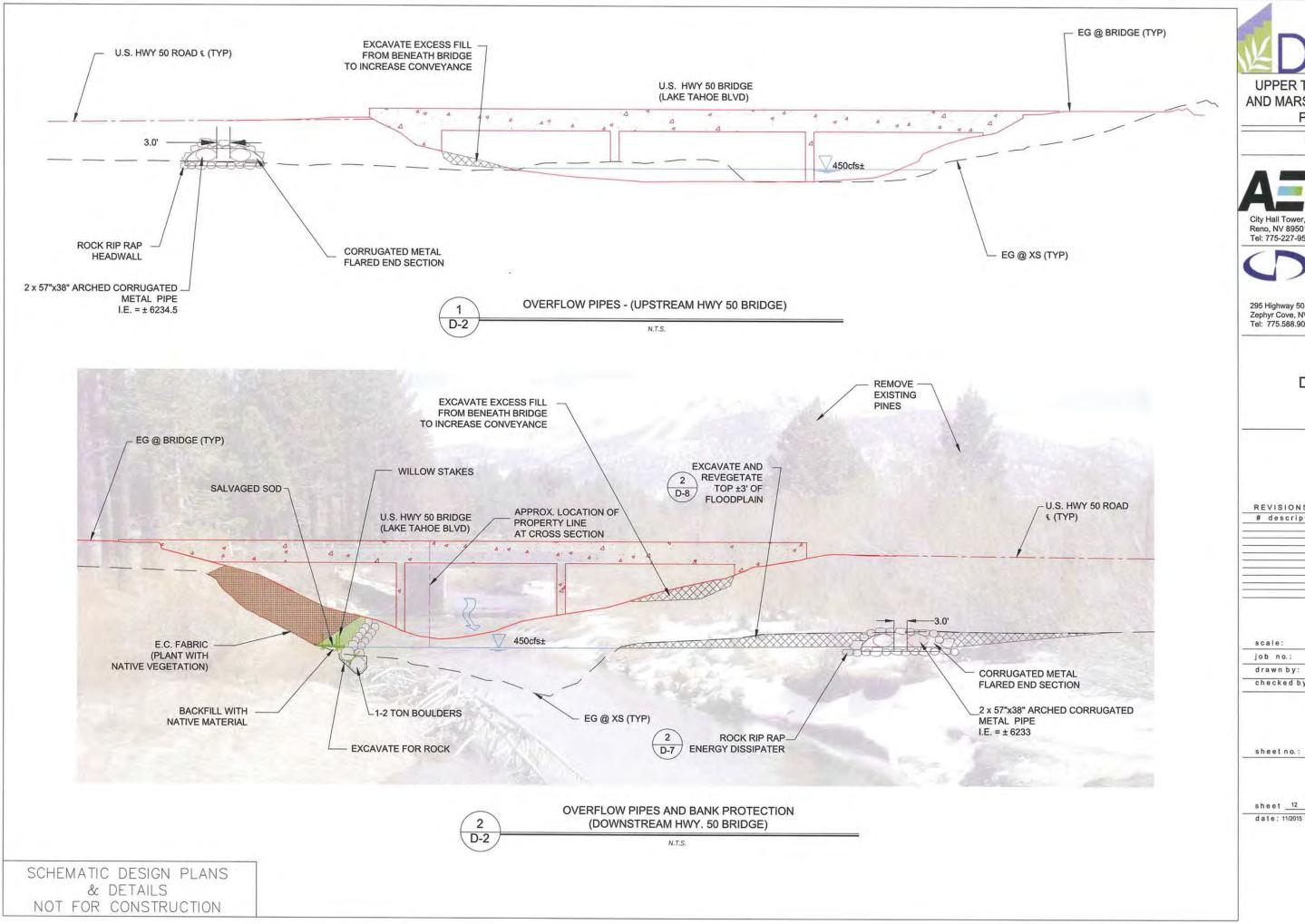
REVISIONS # description date

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

D-1 sheet no.:

sheet \_11 \_ of \_ 25

date: 11/2015





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**DETAILS** 

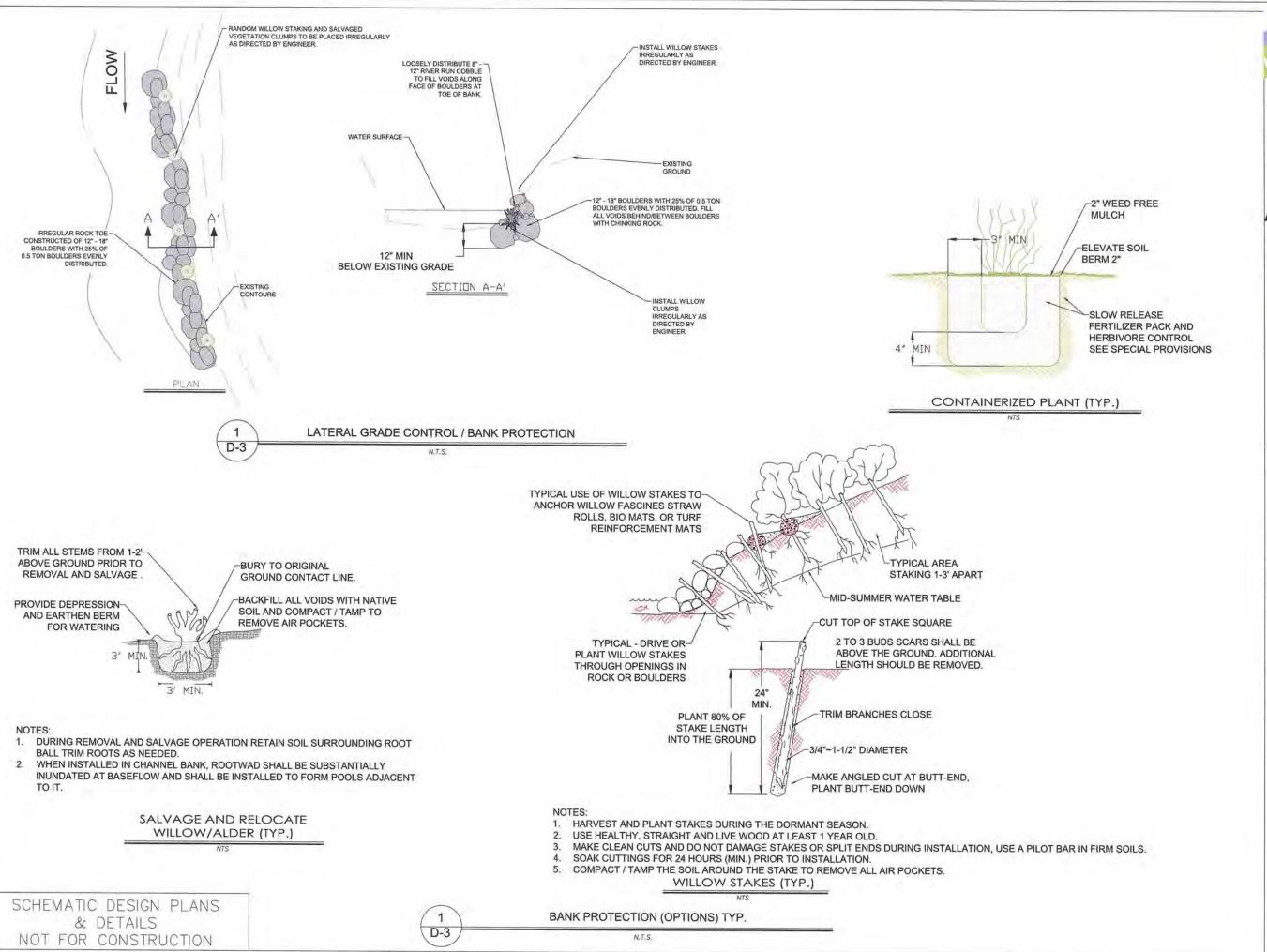
**D-2** 

REVISIONS # description date

AS SHOWN
00110066.04
СК
CM

D-2 sheet no.:

sheet \_12 \_ of \_ 25



UPPER TRUCKEE RIVER

AND MARSH RESTORATION **PROJECT** 

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**DETAILS** 

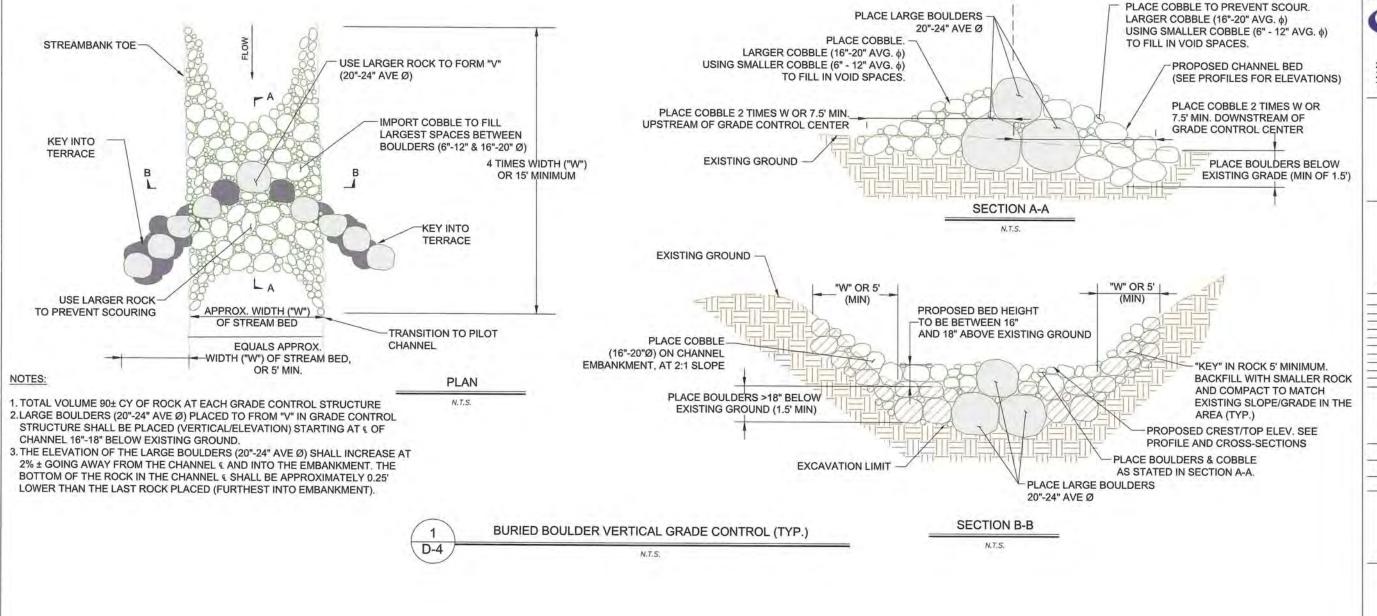
D-3

REVISIONS # description date

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

D-3 sheet no :

sheet 13 of 25 date: 11/2015



& DETAILS

NOT FOR CONSTRUCTION



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**DETAILS** 

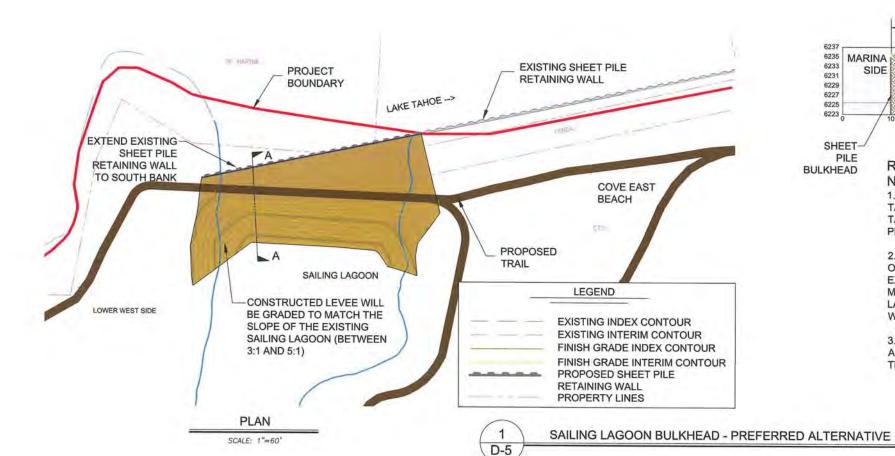
D-4

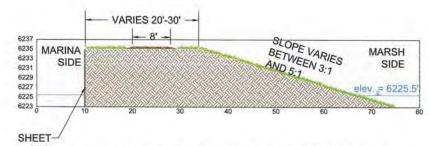
REVISIONS # description date

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

sheet no.: D-4

sheet 14 of 25 date: 11/2015





# BULKHEAD 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. THE PREFERRED ALTERNATIVE 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.

SECTION A-A

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

SCHEMATIC DESIGN PLANS
& DETAILS
NOT FOR CONSTRUCTION

UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

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**DETAILS** 

**D-5** 

# description date

scale: AS SHOWN

job no.: 00110066.04

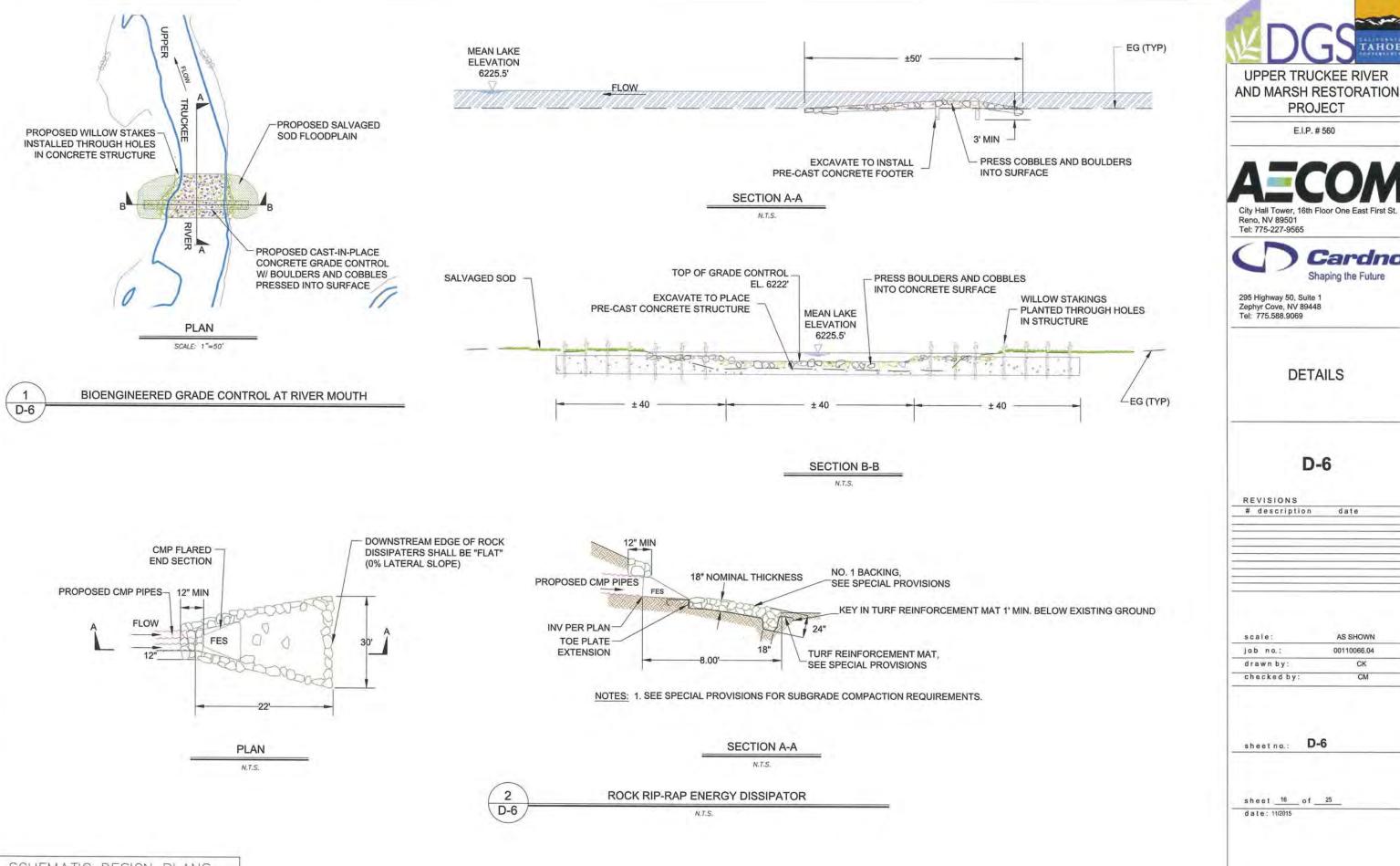
drawn by: CK

checked by: CM

sheet no.: D-5

sheet \_15 of \_25

date: 11/2015



checked by D-6

PROJECT

E.I.P. # 560

Cardno

Shaping the Future

**DETAILS** 

D-6

date

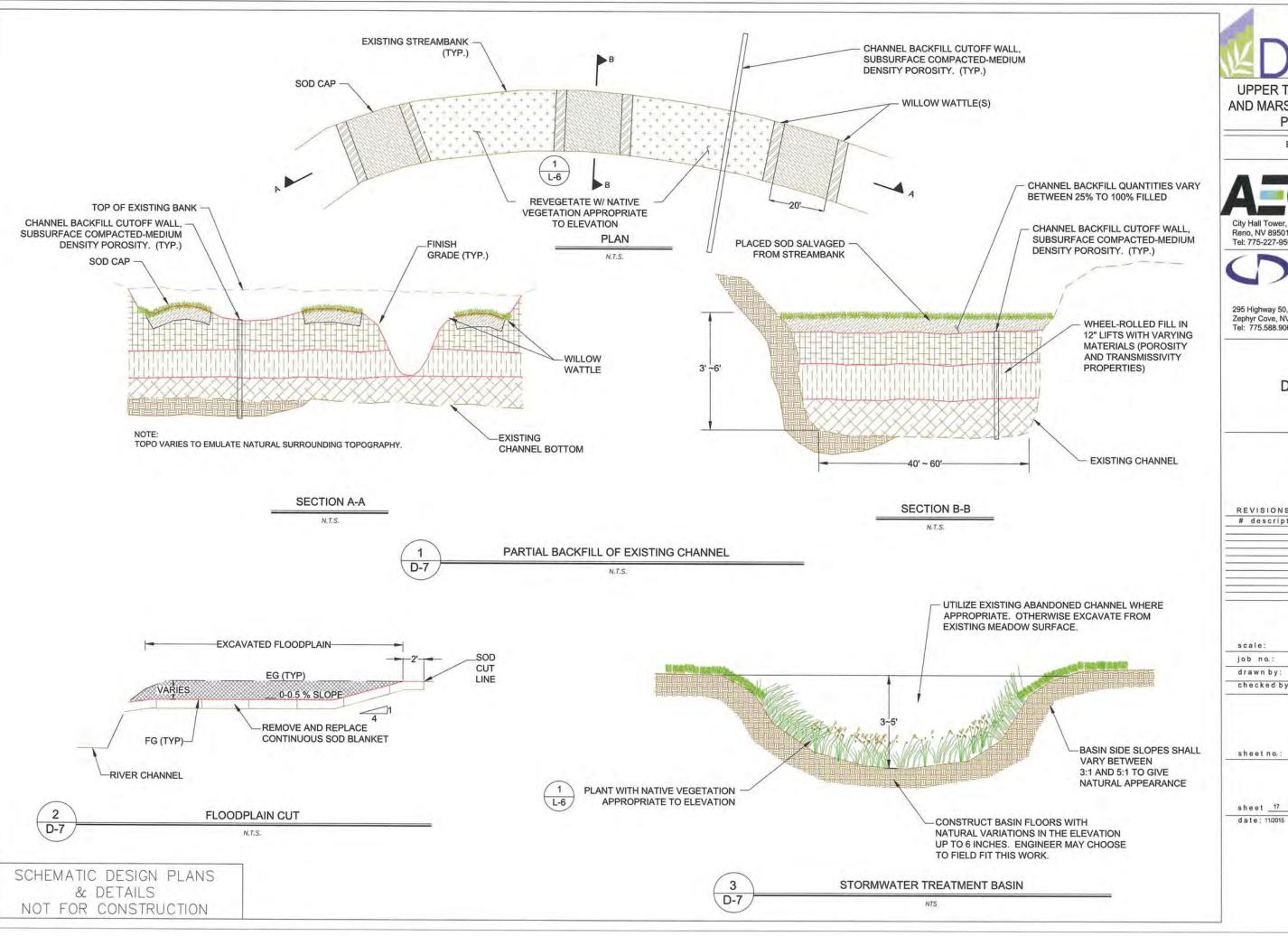
AS SHOWN

CK

00110066.04

sheet 16 of 25 date: 11/2015

SCHEMATIC DESIGN PLANS & DETAILS NOT FOR CONSTRUCTION





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**DETAILS** 

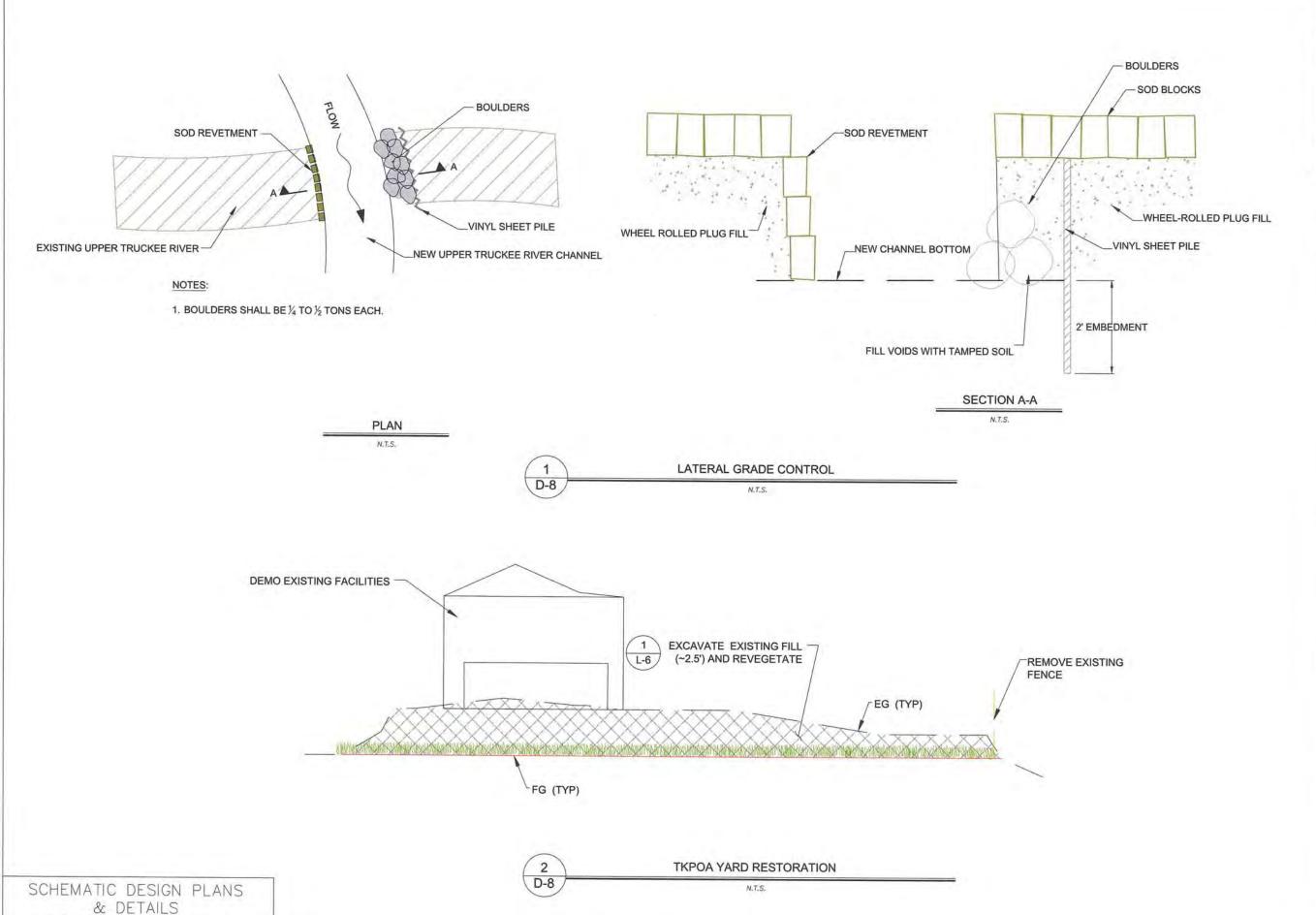
D-7

REVISIONS # description date

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

> D-7 sheet no.:

sheet \_17 of \_25



NOT FOR CONSTRUCTION



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**DETAILS** 

**D-8** 

REVISIONS
# description date

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

sheet no.: D-8

sheet 18 of 25 date: 11/2015

**LEGEND** 

WATER'S EDGE

PROPERTY BOUNDARY

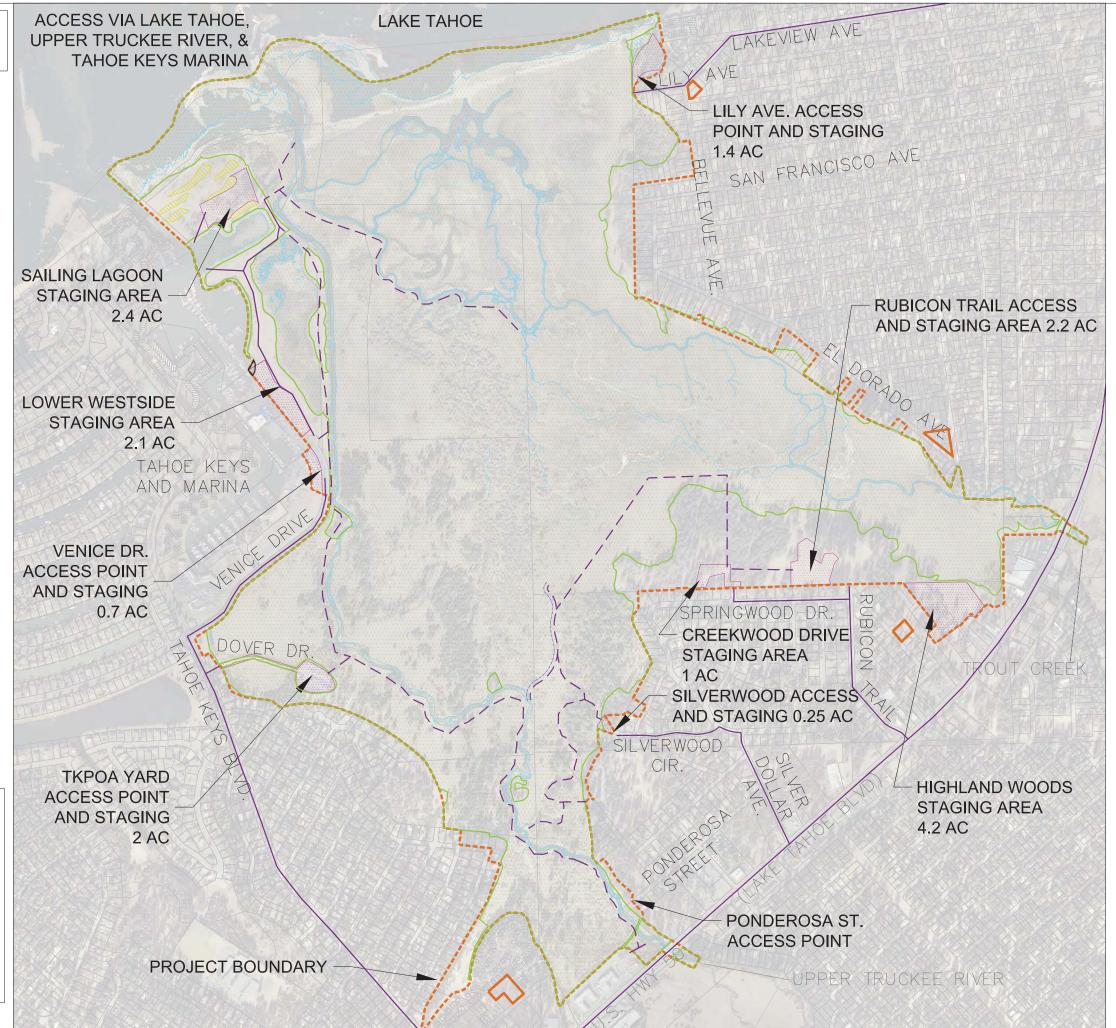
WETLAND DELINEATION

LILY LAGOON AREA

**DUNE RESTORATION AREAS** 

PROPOSED CHANNEL ALIGNMENT PROPOSED INTERNAL HAUL ROUTES PROPOSED EXTERNAL HAUL ROUTES POTENTIAL STORAGE/STAGING ROUTE

PROJECT BOUNDARY





E.I.P. # 560

# **AECOM**

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# STORAGE STAGING AND ACCESS PLAN

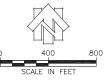
# SS-1

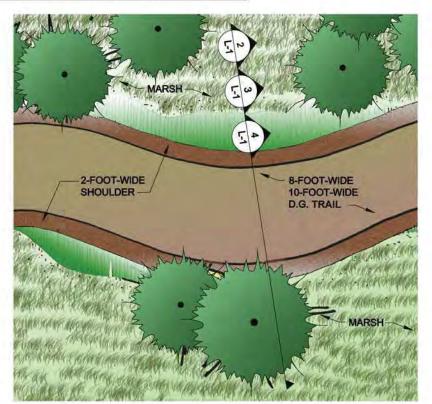
REVISIONS
# description date

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

sheet no.: SS-1

sheet \_\_\_\_\_\_ of \_\_\_\_\_ 25 date: 11/2015





8' OR 10'

2-FOOT-WIDE SHOULDER

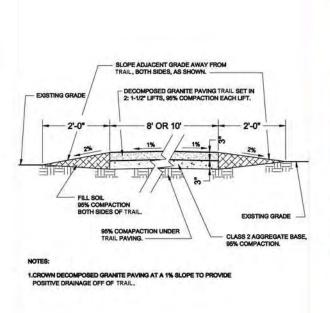
2-FOOT-WIDE SHOULDER

D.G. TRAIL L-1 SCALE: NTS

PLAN VIEW

D.G./A.C.TRAIL L-1 SCALE: NTS

**ELEVATION** 



D.G. TRAIL
L-1 SCALE: NTS



4 D.G. TRAIL L-1 SCALE: NTS

SECTION

REPRESENTATIVE EXAMPLE



UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

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TRAIL

L-1

REVISIONS # description date

 scale:
 NOT TO SCALE

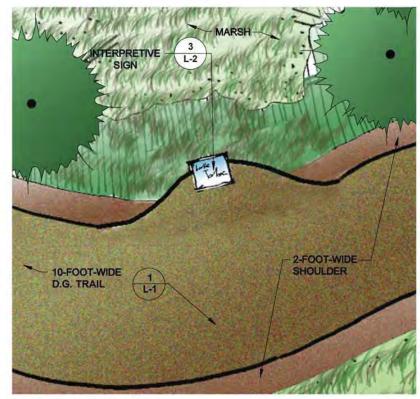
 job no.:
 00110066.04

 drawn by:
 ML

 checked by:
 JZ

sheet no.: L-1

sheet \_\_20\_ of \_\_25\_ date: \_\_11/2015



1 VIEW POINT L-2 SCALE: NTS

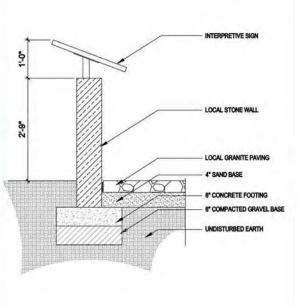
**PLAN VIEW** 



VIEW POINT
L-2 SCALE: NTS ELEVATION



3 VIEW POINT
L-2 SCALE: NTS REPRESENTATIVE EXAMPLE



VIEW POINT
L-2 SCALE: NTS SECTION

DGS

## UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

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VIEW POINT

L-2

REVISIONS
# description date

scale: NOT TO SCALE

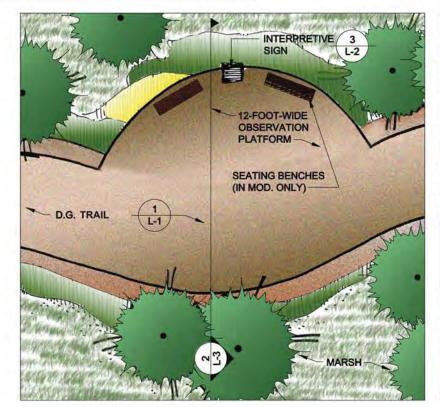
job no.: 00110066.04

drawn by: ML

checked by: JZ

sheet no.: L-2

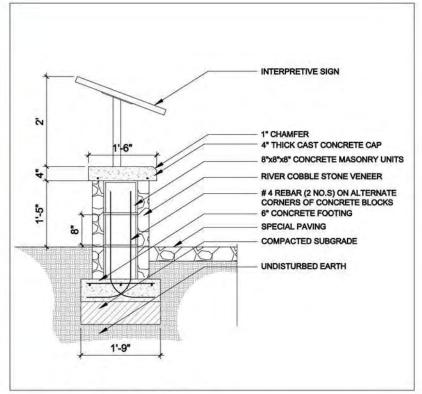
sheet 21 of 25 date: 11/2015



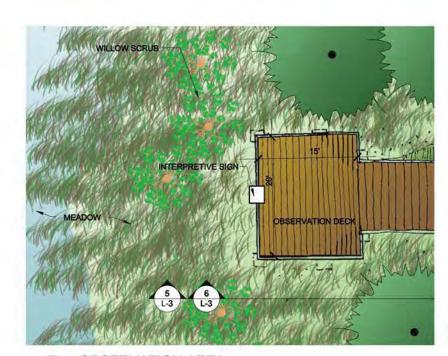
OBSERVATION AREA
L-3 SCALE: NTS PLAN VIEW



OBSERVATION AREA
L-3 SCALE: NTS PLAN VIEW



OBSERVATION AREA
L-3 SCALE: NTS ELEVATION



4 OBSERVATION AREA
L-3 SCALE: NTS ELEVATION



5 OBSERVATION AREA
L-3 SCALE: NTS



6 OBSERVATION AREA
L-3 SCALE: NTS

SECTION

REPRESENTATIVE EXAMPLE

DGS CALLORNIA TAHOE CONGENIANCE

UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

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OBSERVATION AREA TYPE 1

L-3

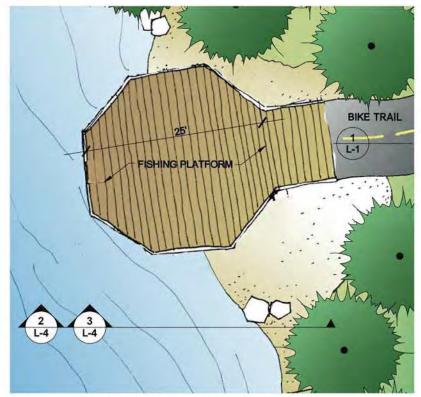
REVISIONS # description date

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

sheet no.: L-3

sheet 22 of 25 date: 11/2015

L-4



1 FISHING PLATFORM SCALE: NTS



FISHING PLATFORM

SCALE: NTS ELEVATION



3 FISHING PLATFORM
L-4 SCALE: NTS REPRESENTATIVE EXAMPLE

DGS TALLOBATIA
COMPERANANCE

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FISHING PLATFORM

L-4

REVISIONS
# description date

 scale:
 NOT TO SCALE

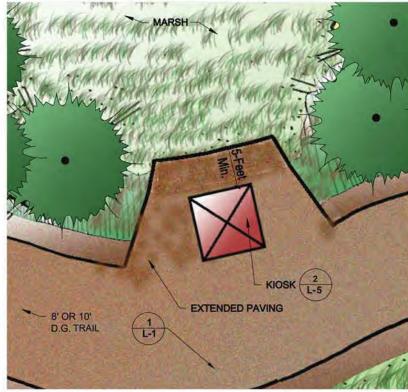
 job no.:
 00110066.04

 drawn by:
 ML

 checked by:
 JZ

sheet no.: L-4

sheet 23 of 25 date: 11/2015



1 L-5

KIOSK SCALE: NTS

**PLAN VIEW** 



2 L-5

KIOSK SCALE: NTS

REPRESENTATIVE EXAMPLE



## UPPER TRUCKEE RIVER AND MARSH RESTORATION PROJECT

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KIOSK

L-5

REVISIONS
# description date

scale: NOT TO SCALE

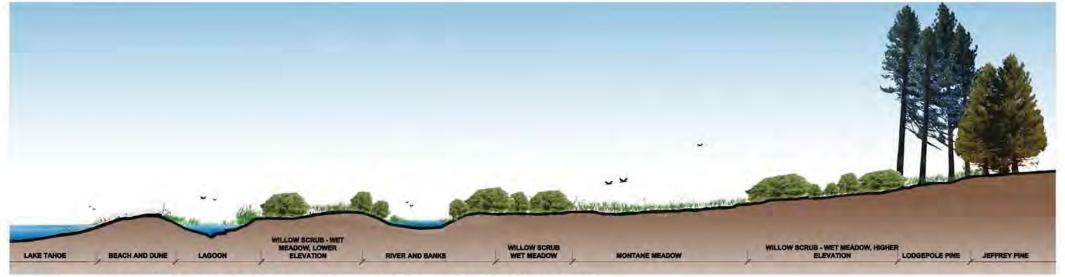
job no.: 00110066.04

drawn by: ML

checked by: JZ

sheet no.: L-5

sheet <u>24</u> of <u>25</u> date: 11/2015



1 REVEGETATION AND HABITAT RELATIONSHIPS
SECTION
SECTION

PLANT LIST

Scientific Name	Common Name	Growth Form	Beach and	Lagoon	Willow Scrub-Wet Meadow, Lower Elevation	Riverbanks	Willow Scrub-Wet Meadow, Higher Elevation	Montane Meadow	Lodgepole Pine	Jeffrey
Scirpus acutus	Tule	P	Dune	X	CHIVALOII	MALINGING	Livration	INVECTOR	raio	Luie
Sparganium emersum ssp. emersum	Emersed bur-reed	P	1	X			1	+	+	1
Typha angustifolium	Cattail	P		X				+		
Achnetherum occidentalis	Western needlegrass	G		^		1		+	X	X
Agrostis exarata	Spike bentgrass	G				X				^
Alopecurus aequalis	Short-awn foxtail	G		X	X	_ ^				
Bromus carinatus	California brome	G								X
Carex aquatilis	Water Sedge	G	X	X	X		X			- "
Carex athrostachya	Blister sedge	G					X	X		
Carex nebraskensis	Nebraska sedge	G	X		X	X	X	X	Х	X
Carex utriculata	Beaked sedge	G	-	X	X		X	X	-	, A
Deschampsia cespitosa var. cespitosa	Tufted hairgrass	G					x	x		
Deschampsia danthonoides	Annual hairgrass	G	X						-	
Eleocharis macrostachya	Common spikerush	G	- 11	x	X	X				
Elymus glaucus	Blue wildrye	G					X	1	X	
Elymus trachycaulus var. intermedia	Intermediate Wheatgrass	G						X		
Festuca rubra	Red fescue	G						X		
Glyceria elata	Fowl mannagrass	G		X	X	X				
Hordeum brachyantherum	Meadow barley	G	X	100	- Y			X		
Hordeum jubatum	Foxtail barley	G	X		-					
Juncus balticus	Wiregrass, Baltic rush	G	X	X	X	X	X			
Juncus effusus	Common rush	G		X	X	X	X			
Juncus ensifolius	Sword-leaved rush	G				X	X			
Juncus nevadensis	Nevada rush	G	X					X		
Juncus orthophyllus	Straight-leaved rush	G						X		
Leymus triticoides	Creeping wildrye	G	X						X	X
Poa secunda var. nevadensis	Bluegrass	G						X	X	X
Scirpus micropus	Small Fruited Bulrush	G				X				
Achillea millefolium	Yarrow	P	X					X	X	X
Arnica charnossonis var. foliosa	Amica	P	X					X	X	
Aster occidentalis	Western mountain aster	P	Х	4				X	X	X
Fragaria virginlana	Mountain strawberry	P	X					X	X	1
Linum lewisii	Flax	P						X		
Lupinus breweri	Brewer's lupine	P		-						X
Lupinus lepidus var. confertus	Clustered tidy lupine	Р	X							X
Lupinus polyphyllus	Big lupine	P					X	X	X	
Oenothera elata var. hookeri	Evening primrose	P	X			4		-	-	

PLANT LIST CONTINUED

Scientific Name	Common Name	Growth	Beach and	Lagoon	Willow Scrub-Wet Meadow, Lower Elevation	Riverbanks	Willow Scrub-Wet Meadow, Higher Elevation	Montane Meadow	Lodgepole Pine	Jeffrey Pine
Penstemon rydbergii var. oreocharis	Meadow beardtongue	Р						X	X	X
Phacelia hastata	Silverleaf phacelia	P								X
Polygonum bistortoides	Western bisort	P					х	X		
Potentilla glandulosa	Cinquefoll	P					X	X	X	
Potentilla gracilis	Cinquefoil	P	X				X	X	X	
Sidalcea oregana ssp. spicata	Checker mallow	P		,		X	X	X	X	
Smilacina stellata	False Solomon's seal	P					1		X	
Stachys ajugoides var. rigida	Hedge nettle	P					X		X	X
Trifolium longipes	Long-stalked clover	P					х	X	X	
Nuphar luteum var. polysepalum	Yellow pond-lily	P		X						
Polygonum amphibium	Water smartweed	Р		X	X					
Polygonum hydropiperoides	Waterpepper	Р		X	X					
Rumex salicifolius	Willow-leaved dock	Р		X	X	X				
Amelanchier alnifolia	Serviceberry	S							X	
Arctostaphylos patula	Greenleaf Manzanita	S								X
Artemisia tridentata var. vaseyana	Mountain sagebrush	S	1911						X	X
Berberis aquifolium var. repens	Oregon grape	S		,						X
Ceanothus prostratus	Squaw carpet	S								X
Chrysothamnus nauseosus	Rubber rabbitbrush	S								X
Lonicera conjugalis	Double honeysuckle	S						1 11 11 11 11		X
Ribes cereum	Wax current	S								X
Ribes lacustre	Swamp current	S					X		X	X
Ribes roezlii var. roezlii	Sierra currant	S								X
Rosa woodsii var. ultramontana	Interior rose	S							X	X
Salix exigua	Narrow-leaved willow	S	X			X				
Pinus contorta var. murrayana	Lodgepole pine	T							X	X
Pinus jeffreyl	Jeffrey pine	T								X
Salix geyeriana	Geyer's willow	T		X	X					
Salix lemmonii	Lemmon's willow	T	X	X	X	X	X		Х	
Salix lucida var. lasiandra	Shining willow	T		Х	X	X				
Salix scouleriana	Scouler's willow	T		1			х		X	
Total Number of Species			17.0	15.0	14.0	13.0	19.0	22.0	24.0	24.0

(EY

G-GRASS P-PERENNIAL S-SHRUB T-TREE



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> REVEGETATION SECTION AND PLANT LIST

> > L-6

REVISIONS # description date

 scale:
 NOT TO SCALE

 job no.:
 00110066.04

 drawn by:
 ML

 checked by:
 JZ

sheet no.: L-6

sheet \_\_25\_ of \_\_25\_\_ date: \_\_11/2015