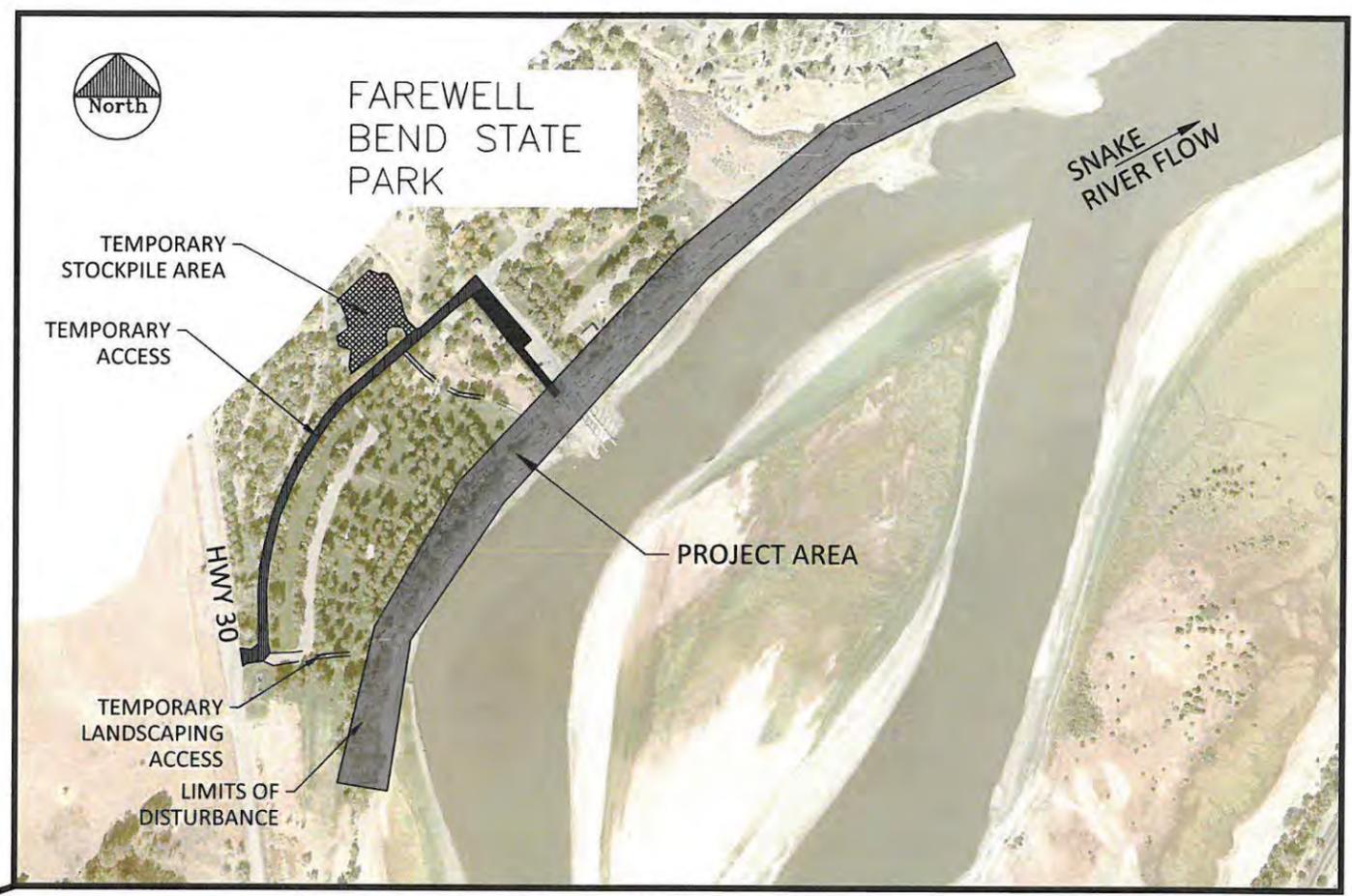




LOCATION MAP



SITE MAP

OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,



VICINITY MAP

NTS

SOURCE: GOOGLE MAPS

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WATERBODY: SNAKE RIVER  
 PROJECT LOCATION:  
 FAREWELL BEND STATE PARK  
 LATITUDE 44°18'20.73"N  
 LONGITUDE 117°13'24.95"W  
 3.9 MILE SOUTH OF HUNTINGTON  
 BAKER COUNTY, OR



Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM, RP	APPROVED 1 OF 32
REV. CH.	Four-0-0 ...-ACAD

**GENERAL PROJECT INFORMATION:**

PROJECT SITE SPANS PROPERTY OWNED BY OREGON PARKS AND RECREATION DEPARTMENT (OPRD) AND IDAHO POWER COMPANY (IPC).

THE ENTIRE PARK AND PROJECT SITE SHALL BE CONSIDERED TO BE CULTURALLY SIGNIFICANT. CONTRACTOR SHALL PROCEED WITH UTMOST CARE AND CAUTION TO NOT DISTURB CULTURAL RESOURCES. CONSTRUCTION DISTURBANCE SHALL REMAIN WITHIN THE DEFINED BOUNDARIES SPECIFIED ON THE PLANS. IPC WILL PROVIDE AN ARCHEOLOGIST TO MONITOR CONSTRUCTION. WORK MAY BE STOPPED AT ANY TIME AND FOR ANY DURATION DUE TO EVIDENCE OF DEPOSITS OF HISTORICAL OR ARCHEOLOGICAL SIGNIFICANCE, AT NO ADDITIONAL COST.

CONTRACTOR SHALL PROVIDE CONTINUOUS PUBLIC ACCESS TO THE PARK AND BOAT RAMP FACILITIES THROUGHOUT PROJECT DURATION.

**GENERAL**

THE CONTRACTOR SHALL ATTEND PRECONSTRUCTION CONFERENCES WITH IPC PRIOR TO BEGINNING CONSTRUCTION.

ALL WORK SHALL CONFORM TO THE CURRENT EDITIONS OF STANDARD PLANS AND SPECIFICATIONS OF THE OREGON STATE DEPARTMENT OF TRANSPORTATION (ODOT), UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL NOTIFY IPC 14 DAYS PRIOR TO MOBILIZING MATERIALS OR EQUIPMENT ON SITE.

NOT ALL EXISTING VEGETATION OR TREES ARE SHOWN ON THE PLANS. NO VEGETATION OR TREES SHALL BE DISTURBED OR REMOVED UNLESS APPROVED BY IPC.

HAZARD TREES TO BE REMOVED WILL IDENTIFIED BY OPRD AND IPC AND WILL BE INDICATED TO CONTRACTOR DURING PRE-BID TOUR.

**ODFW IN-WATER WORK PERIODS**

WORK SHALL OCCUR DURING THE PERMITTED IN-WATER WORK PERIOD.

**EXISTING DATA**

TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (FTUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.

**UTILITIES**

UNDERGROUND AND OVERHEAD UTILITIES ARE KNOWN TO EXIST IN THE AREA OF ACCESS AND CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND NOT COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY OWNERS FOR LOCATIONS AND TO FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE ONE-CALL NUMBER FOR UNDERGROUND UTILITIES IS 1-800-332-2344.

PARK UTILITIES ARE KNOWN TO INCLUDE IRRIGATION, ELECTRICAL, WATER, WASTE WATER AND SEPTIC. OTHER UTILITIES MAY EXIST. CONTRACTOR SHALL CONTACT OPRD STAFF FOR DESCRIPTION OF APPROXIMATE LOCATIONS. UNKNOWN UTILITIES AND LOCATIONS MAY EXIST ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING LOCATION, PROTECTING AND RESTORING ALL PARK UTILITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL RESTORE UTILITIES DAMAGED BY CONTRACTOR'S OPERATIONS TO PRE-PROJECT OR BETTER CONDITION AT NO ADDITIONAL COST.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROMPTLY NOTIFY IPC OF ANY CONFLICT WITH EXISTING UTILITIES.

ALL EXISTING FACILITIES, LANDSCAPE IMPROVEMENTS, UTILITIES AND VEGETATION NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL BE PROTECTED THROUGHOUT CONSTRUCTION OR RESTORED AT COMPLETION OF THE WORK.

**SOILS**

SURFACE AND SHALLOW (LESS THAN 12 INCH DEEP) SUBSURFACE CONDITIONS WERE EXPLORED AND SAMPLED BY LANDAU ASSOCIATES, INC. RESULTS INCLUDING SOIL CHARACTERIZATION RESULTS ARE SUMMARIZED IN THE PROJECT REPORT.

**CONSTRUCTION ACCESS/TRAFFIC CONTROL**

TO LIMIT IMPACT TO CULTURAL AND NATURAL RESOURCES, ACCESS ROUTES SHALL FOLLOW EXISTING ROADS, BOAT RAMP PARKING AREA AND REMAIN WITHIN AUTHORIZED LIMITS OF DISTURBANCE.

PUBLIC ACCESS TO BOAT RAMP AND PARK FACILITIES SHALL BE MAINTAINED UNINTERRUPTED FOR DURATION OF PROJECT.

THE CONTRACTOR SHALL PROVIDE AN ACCESS AND TRAFFIC CONTROL PLAN TO IPC FOR REVIEW. CONSTRUCTION SHALL NOT COMMENCE UNTIL APPROVAL. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTING REQUIRED TRAFFIC CONTROL AS REVIEWED AND APPROVED BY IPC.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ANY REQUIRED TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO, BARRICADES, SIGNAGE AND FLAGGERS.

ALL EQUIPMENT, MATERIALS AND PERSONNEL SHALL REMAIN WITHIN THE LIMITS OF DISTURBANCE UNLESS AUTHORIZED BY IPC.

THE CONTRACTOR SHALL AT ALL TIMES KEEP THE WORK AREAS IN A CLEAN AND NEAT CONDITION FREE OF DEBRIS AND LITTER FOR THE DURATION OF THE PROJECT.

ALL AFFECTED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST.

ALL DISTURBED AREAS OUTSIDE THE AUTHORIZED LIMITS OF DISTURBANCE SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST.

**CONSTRUCTION STAKING**

CONTRACTOR SHALL STAKE PROJECT LIMITS, GRADING, AND ELEVATION CONTROL POINTS FOR REVIEW AND APPROVAL BY IPC AND OPRD. SOME ADJUSTMENTS TO THE LINES AND GRADES MAY BE REQUIRED.

CONTRACTOR SHALL STAKE LIMITS OF DISTURBANCE FOR REVIEW AND APPROVAL BY IPC AND OPRD PRIOR TO MOBILIZATION OF EQUIPMENT OR MATERIALS ONTO THE SITE.

THE CONTRACTOR SHALL REPLACE DAMAGED OR DESTROYED CONSTRUCTION STAKES AT NO ADDITIONAL COST.

**CONSTRUCTION MATERIALS**

MATERIAL VOLUMES ARE APPROXIMATE ESTIMATES BASED ON IN-PLACE CONDITION DEFINED BY SURVEY OF EXISTING GRADE, SUB GRADE AND FINAL GRADE. ESTIMATED IN-PLACE VOLUMES DO NOT ACCOUNT FOR EXPANSION OF EXCAVATED MATERIALS OR COMPACTION OF PLACED MATERIALS.

ANY EXCESS MATERIALS SHALL BE STOCKPILED NEATLY WITHIN THE LIMITS OF DISTURBANCE OR OTHER APPROVED STOCKPILE AREA. MATERIAL NOT MEETING SPECIFICATION FOR SALVAGE AND REUSE SHALL BE REMOVED FROM THE SITE PRIOR TO THE COMPLETION OF WORK.

ALL MATERIALS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE AT AN APPROVED DISPOSAL SITE PROVIDED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES FOR LEGAL OFF SITE DISPOSAL.

**CONSTRUCTION DEWATERING**

CONTRACTOR SHALL PERFORM CONSTRUCTION DEWATERING IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND PERMIT REQUIREMENTS AND IN SUCH A MANNER AS TO AVOID THE RELEASE OF TURBID OR SEDIMENT-LADEN WATER AND THAT DOES NOT CAUSE CONTAMINATION OR INCREASE TURBIDITY OF SURFACE WATERS. A "DIRT-BAG" TYPE FILTRATION SYSTEM OR SEDIMENT RETENTION STRUCTURE MAY BE REQUIRED. DISCHARGING SEDIMENT LADEN WATER ONTO OVERLAND AREAS TO SHEET FLOW THROUGH EXISTING VEGETATION BEFORE INFILTRATING INTO THE GROUND IS NOT ALLOWED UNLESS APPROVED BY IPC IN WRITING.

**VEHICLE OPERATIONS AND STAGING**

CONTRACTOR SHALL PROVIDE A VEHICLE ROUTING AND MATERIALS SEQUENCING PLAN TO IPC FOR REVIEW AND APPROVAL PRIOR TO MOBILIZATION. LIMIT HIGHWAY HAUL TRUCKS TO CLEAN AREA OF STAGING AREA.

VEHICLES AND WORK AREAS SHALL BE MAINTAINED IN A CLEAN STATE UTILIZING BEST MANAGEMENT PRACTICES INCLUDED IN ODOT'S "EROSION CONTROL MANUAL" AND OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY'S "EROSION AND SEDIMENT CONTROL MANUAL" AS NECESSARY TO COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND PERMIT REQUIREMENTS AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL COMPLETE VEHICLE STAGING, CLEANING, MAINTENANCE, REFUELING, AND FUEL STORAGE IN VEHICLE STAGING AREA PLACED 100 FEET OR MORE FROM ANY STREAM, WATER BODY OR WETLAND.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SPILL CONTAINMENT AND CONTROL PLAN WITH NOTIFICATION PROCEDURES AND SPECIFIC CLEANUP AND DISPOSAL INSTRUCTIONS FOR DIFFERENT PRODUCTS. THE CONTRACTOR SHALL STAGE QUICK RESPONSE CONTAINMENT AND CLEANUP MEASURES ON THE SITE, ALONG WITH PERSONNEL TRAINED IN FINISHED METHODS FOR DISPOSAL OF SPILLED MATERIALS AND SPILL CONTAINMENT.

CONTRACTOR SHALL INSPECT ALL VEHICLES OPERATED WITHIN 100 FEET OF ANY STREAM, WATER BODY OR WETLAND DAILY FOR FLUID LEAKS BEFORE LEAVING THE VEHICLE STAGING AREA. REPAIR ANY LEAKS DETECTED IN THE VEHICLE STAGING AREA BEFORE THE VEHICLE RESUMES OPERATION. DOCUMENT INSPECTIONS IN A RECORD THAT IS AVAILABLE FOR REVIEW UPON REQUEST.

BEFORE OPERATIONS BEGIN AND AS OFTEN AS NECESSARY DURING OPERATION, PRESSURE WASH ALL EQUIPMENT THAT WILL BE USED BELOW ORDINARY HIGH WATER ELEVATION UNTIL ALL VISIBLE EXTERNAL OIL, GREASE, MUD, AND OTHER VISIBLE CONTAMINANTS ARE REMOVED.

THE CONTRACTOR SHALL DIAPER WITH OIL ABSORBENT MATERIALS ALL STATIONARY POWER EQUIPMENT (I.E. GENERATORS, PUMPS, CRANES) OPERATED WITHIN 100 FEET OF ANY STREAM, WATER BODY OR WETLAND TO PREVENT LEAKS, UNLESS SUITABLE CONTAINMENT IS PROVIDED TO PREVENT POTENTIAL SPILLS FROM ENTERING ANY STREAM OR WATER BODY.

WHEN TRUCKING SATURATED SOILS FROM THE SITE, WATERTIGHT TRUCKS MUST BE USED, OR LOADS SHALL BE DRAINED ON-SITE SO THAT WATER SEEPING FROM THE SOIL CANNOT DRAIN FROM THE VEHICLE. VEHICLES LEAVING THE SITE MAY BE REQUIRED TO HAVE TIRES CLEANED AT A TRUCK WASHING STATION AT NO ADDITIONAL COST.

**REGULATORY COMPLIANCE**

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL PERMIT CONDITIONS.

ANTICIPATED PERMITS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- SECTION 404 CLEAN WATER ACT/SECTION 10 RIVERS AND HARBOR ACT (USACE)
- SECTION 401 WATER QUALITY CERTIFICATION (DEQ)
- REMOVAL-FILL PERMIT (DSL)
- NPDES PERMIT (DEQ)
- ENDANGERED SPECIES ACT (ESA), SECTION 7 CONSULTATION
- OREGON STATE HISTORIC PRESERVATION OFFICE (SHPO)
- TRIBAL CONSULTATIONS

**AERIAL PHOTOGRAPHS**

THE AERIAL PHOTOGRAPHY USED FOR THESE PLANS WERE COLLECTED ON OCTOBER 2006 AND MAY NOT REFLECT ALL SITE CONDITIONS AND IMPROVEMENTS SINCE THAT DATE. THE CONTRACTOR SHALL REVIEW THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH CURRENT SITE CONDITIONS AND INCLUDE ANY CHANGES THAT MAY ALTER CONSTRUCTION IN THEIR BID PRICE.

THE WATER SURFACE AT THE TIME OF THE AERIAL FLIGHT WAS APPROXIMATELY 2055.0 FT (NAVD88). WATER SURFACE ELEVATIONS MAY RISE TO ELEVATION 2081.0 FT (NAVD88).

**ABBREVIATIONS**

IPC	IDAHO POWER COMPANY	CFS	CUBIC FEET PER SECOND
OPRD	OREGON PARKS & RECREATION DEPT.	GPM	GALLONS PER MINUTE
ODOT	OREGON DEPARTMENT OF TRANSPORTATION	LBS	POUNDS
TYP	TYPICAL	IN	INCHES
APPROX	APPROXIMATE	FT	FEET
MH	MANHOLE	LF	LINEAL FEET
FH	FIRE HYDRANT	SF	SQUARE FEET
WS	WATER SURFACE	SY	SQUARE YARDS
STA	STATION	CY	CUBIC YARDS
NTS	NOT TO SCALE	AC	ACRES
ELEV	ELEVATION	OC	ON CENTER
CL	CENTERLINE	PLS	PURE LIVE SEED
XS	CROSS SECTION	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
ST	STREET	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
AVE	AVENUE	CP	CONTROL POINT
MIN	MINIMUM		
MAX	MAXIMUM		
LWD	LARGE WOODY DEBRIS (LOGS)		
OHW	ORDINARY HIGH WATERLINE		
ESC	EROSION AND SEDIMENT CONTROL		



Expires: 12-31-16



Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM	APPROVED
DR. DM.RP	2 OF 32
REV. ch	Four-D-0 ...-ACAD

THE PROJECT AREA DRAINS TO THE SNAKE RIVER. THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE RECEIVING WATERS FROM DELETERIOUS EFFECTS OF CONSTRUCTION IN COMPLIANCE WITH ALL APPLICABLE RULES, REGULATIONS AND PERMIT REQUIREMENTS.

**EROSION AND SEDIMENT CONTROL**

EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH THE MORE STRINGENT OF: ODOT SPECIFICATION 00280; ODOT ROADWAY 01000 - EROSION CONTROL DRAWINGS; ODOT "EROSION CONTROL MANUAL"; AND, OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY "EROSION AND SEDIMENT CONTROL MANUAL".

A SUGGESTED MINIMUM EROSION AND SEDIMENT CONTROL PLAN IS PROVIDED ON SHEETS 31 AND 32. CONTRACTOR SHALL PREPARE OWN PLAN FOR SUBMITTAL TO IPC FOR REVIEW AND APPROVAL.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION, SEDIMENT, AND POLLUTION CONTROL MEASURES NECESSARY TO COMPLY WITH ALL APPLICABLE REGULATIONS. NOTICE TO PROCEED WILL NOT BE ISSUED UNTIL THE CONTRACTOR OBTAINS AN APPROVED ESC PLAN.

PUBLIC RIGHTS OF WAY ARE TO BE KEPT IN A CLEAN AND SERVICEABLE CONDITION AT ALL TIMES. IN THE EVENT MATERIALS ARE INADVERTENTLY DEPOSITED ON ROADWAYS IT SHALL BE REMOVED PROMPTLY. MATERIALS SHALL BE SWEEPED AND REMOVED FROM THE STREET PRIOR TO ANY STREET FLUSHING. PUBLIC AND PRIVATE DRAINAGE AND WATER WAYS ARE TO BE PROTECTED FROM POLLUTION.

THE CONTRACTOR SHALL ENSURE THAT MATERIALS FOR EMERGENCY EROSION CONTROL ARE ONSITE, INCLUDING BUT NOT LIMITED TO: SEDIMENT CONTROL MATERIALS (I.E. SILT FENCE, STRAW BALES, STRAW WATTLES, DIRT BAGS); AND OIL-ABSORBING, FLOATING BOOM WHENEVER FLOWING SURFACE WATER IS PRESENT.

THE CONTRACTOR SHALL IMPLEMENT MEASURES TO CONTROL AND MINIMIZE WIND-BLOWN DUST FROM THE SITE. MEASURES MAY INCLUDE, BUT NOT LIMITED TO: SPRINKLERS, MULCH, SLOWER VEHICLE SPEEDS, ETC.

THE CONTRACTOR SHALL SUBMIT NAME, ADDRESS AND 24-HOUR PHONE NUMBER OF PERSON RESPONSIBLE FOR EROSION PREVENTION AND SEDIMENT CONTROL MEASURES, AND SPILL CONTAINMENT.

THE IMPLEMENTATION OF EROSION, SEDIMENT, AND POLLUTION CONTROL MEASURES AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED, AND VEGETATION IS ESTABLISHED.

APPROVED BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN WILL BE FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION BY CONTRACTOR AND APPROVED BY IPC AND OP&D. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

EROSION, SEDIMENT, AND POLLUTION CONTROL MEASURES MUST BE IMPLEMENTED PRIOR TO ANY GROUND DISTURBING ACTIVITY ON THE PROJECT SITE, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE PROJECT SITE, ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.

DURING THE CONSTRUCTION PERIOD, EROSION, SEDIMENT, AND POLLUTION CONTROL MEASURES SHALL BE UPGRADED AS NEEDED FOR STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

DURING CONSTRUCTION, THE CONTRACTOR SHALL INSPECT FOR SIGNS OF INSTREAM TURBIDITY AND INSPECT ALL EROSION CONTROLS DAILY DURING THE RAINY SEASON AND WEEKLY DURING THE DRY SEASON, OR MORE OFTEN AS NECESSARY, TO ENSURE THE EROSION CONTROLS ARE WORKING ADEQUATELY. IF MONITORING OR INSPECTION SHOWS THAT THE EROSION CONTROLS ARE INEFFECTIVE, THE CONTRACTOR SHALL MOBILIZE WORK CREWS IMMEDIATELY TO MAKE REPAIRS, INSTALL REPLACEMENTS, OR INSTALL ADDITIONAL CONTROLS AS NECESSARY. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM EROSION CONTROLS ONCE IT HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE CONTROL.

**SEDIMENT CONTROLS**

SEDIMENT CONTROL BARRIERS INCLUDING SILT FENCE SHALL COMPLY WITH ODOT:

- STANDARD SPECIFICATION 00280 ([http://www.oregon.gov/ODOT/HWY/SPECS/docs/08book/08\\_00200.pdf](http://www.oregon.gov/ODOT/HWY/SPECS/docs/08book/08_00200.pdf))
- AND, ROADWAY DRAWING RD1040 ([http://www.oregon.gov/ODOT/HWY/ENGSERVICES/roadway\\_drawings.shtml#Rdwy\\_1000\\_\\_\\_\\_Erosion\\_Control](http://www.oregon.gov/ODOT/HWY/ENGSERVICES/roadway_drawings.shtml#Rdwy_1000____Erosion_Control))

THE DUFF LAYER, NATIVE TOP SOIL, AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. THE CONTRACTOR SHALL MARK ALL AREAS WHICH ARE NOT TO BE DISTURBED, INCLUDING SETBACKS, SENSITIVE/CRITICAL AREAS AND THEIR BUFFERS. TREES AND DRAINAGE COURSES NOT TO BE DISTURBED SHALL BE MARKED AND FLAGGED BEFORE CONSTRUCTION ACTIVITIES ARE INITIATED. THESE AREAS SHALL BE PROTECTED BY THE CONTRACTOR WITH BARRIER FENCING WHEN MEASURES UNDER THIS EROSION AND SEDIMENT CONTROL PLAN AND/OR CONSTRUCTION ACTIVITIES ARE INITIATED.

THE CONTRACTOR MAY ELECT TO CONSTRUCT TEMPORARY SEDIMENTATION PONDS, TANKS, OR OTHER FACILITIES AS NECESSARY TO CONTROL RUNOFF AND/OR TO FILTER DEWATERING DISCHARGE.

**CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN RECORD**

WEEKLY REPORTS SUMMARIZING THE SCOPE OF INSPECTIONS, THE PERSONNEL CONDUCTING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE CONTRACTORS PLAN, AND ACTIONS TAKEN AS A RESULT OF THESE INSPECTIONS SHALL BE PREPARED AND RETAINED ON SITE BY THE CONTRACTOR. IN ADDITION, A RECORD OF THE FOLLOWING DATES SHALL BE INCLUDED IN THE REPORTS:

- WHEN MAJOR GRADING ACTIVITIES OCCUR,
- DATES OF RAINFALL EVENTS EITHER EXCEEDING 2 HOURS DURATION OR MORE THAN 0.5 INCHES/24 HOURS,
- WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON SITE, OR ON A PORTION OF THE SITE,
- WHEN STABILIZATION MEASURES ARE INITIATED FOR PORTIONS OF THE SITE.

REPORTS SHALL BE MADE AVAILABLE TO IPC AND OWNER'S REPRESENTATIVE ON REQUEST AND SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO APPLICATION FOR PAYMENT.

**STABILIZE SOILS AND PROTECT SLOPES**

FROM MAY 1 THROUGH SEPTEMBER 30, ALL EXPOSED SOILS SHALL BE PROTECTED FROM EROSION BY MULCHING, PLASTIC SHEETING, HYDROSEED COVERING, OR OTHER APPROVED MEASURES WITHIN ONE WEEK OF GRADING. FROM OCTOBER 1 THROUGH APRIL 30, ALL EXPOSED SOILS MUST BE PROTECTED WITHIN 2 DAYS OF GRADING. SOILS SHALL BE STABILIZED BEFORE A WORK SHUTDOWN, HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES. HYDROSEED AS SOON AS PRACTICAL ALL DISTURBED AREAS NOT INDICATED IN THE CONTRACT DOCUMENTS FOR OTHER PERMANENT STABILIZATION MEASURES.

DESIGN, CONSTRUCT, AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. REDUCE SLOPE VELOCITIES ON DISTURBED SLOPES BY PROVIDING TEMPORARY BARRIERS. STORMWATER FROM OFF SITE SHOULD BE HANDLED SEPARATELY FROM STORMWATER GENERATED ON SITE.

**AFTER FINAL SITE STABILIZATION**

ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE OR INCORPORATED INTO FINISHED GRADING. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

**CONTROL POLLUTANTS**

CONTRACTOR MUST PREPARE AND SUBMIT TO IPC FOR APPROVAL A SPILL PREVENTION CONTROL AND COUNTER MEASURE (SPCC) PLAN AND IMPLEMENT REQUIRED MEASURES TO CONTROL POLLUTANTS. WORK SHALL NOT COMMENCE UNTIL APPROVAL BY IPC.

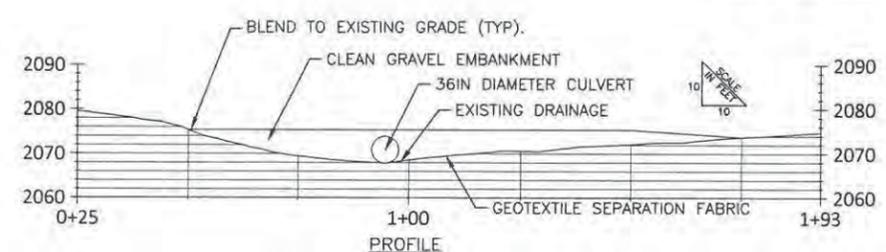
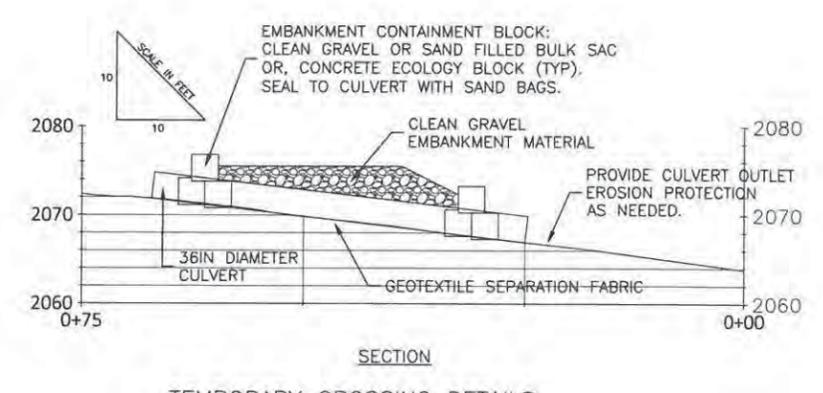
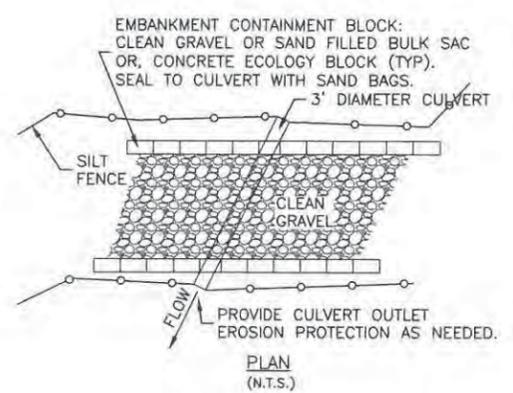
ALL POLLUTANT DISCHARGES OTHER THAN SEDIMENT THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER, GROUNDWATER, OR SOILS TO REMAIN ON SITE.

THE USE OF LIME, FLY ASH, OR OTHER SOIL AMENDMENTS THAT COULD ALTER THE PH OF DISCHARGE WATERS IS PROHIBITED.

**TEMPORARY CROSSING**

ACCESS CROSSING OF THE SWALE SOUTH OF BOAT RAMP SHALL BE PROTECTED BY INSTALLATION OF TEMPORARY CROSSING INCLUDING:

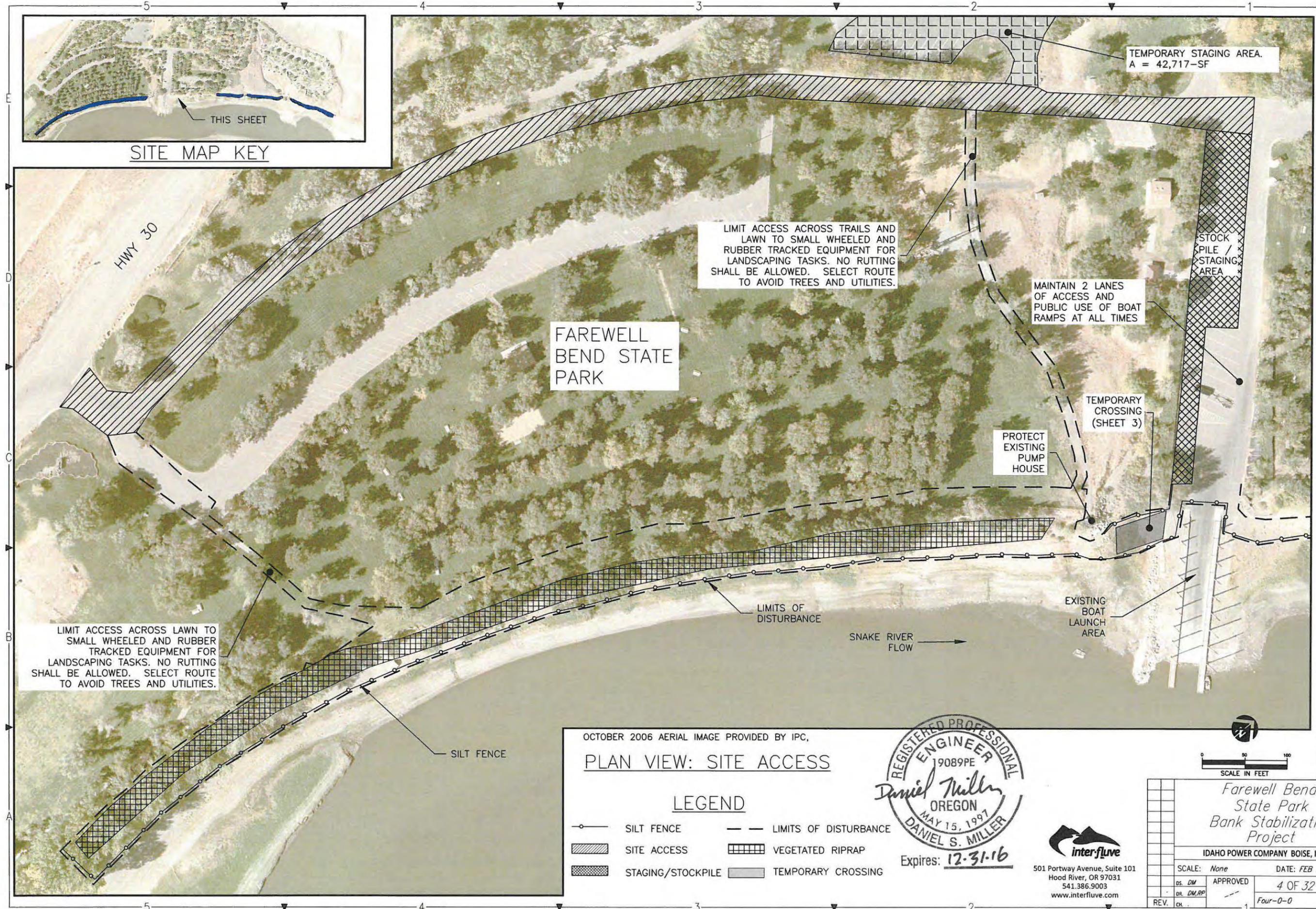
- PLACE SYNTHETIC GEOTEXTILE SEPARATION FABRIC ON EXISTING GROUND BELOW ALL PLACED MATERIALS. FABRIC SHALL BE GEOTEX 250ST, MIRAFI 600X, OR IPC APPROVED EQUAL.
- PLACE EMBANKMENT CONTAINMENT USING CLEAN GRAVEL FILLED BULK SACS OR ECOLOGY BLOCKS.
- PLACE 36INCH CULVERT WITH INLET AND OUTLET PROTECTION AS NEEDED TO PREVENT SCOUR.
- PLACE CLEAN GRAVEL OR COBBLE EMBANKMENT MATERIAL.
- MONITOR AND MAINTAIN CROSSING FOR DURATION OF PROJECT TO PROVIDE FLOW CONVEYANCE OF DRAINAGE, INTEGRITY OF CROSSING AND CLEAN SITE CONDITIONS.
- AT PROJECT COMPLETION ALL MATERIALS SHALL BE REMOVED. SITE SHALL BE RESTORED INCLUDING DECOMPACTION OF COMPACTED MATERIALS, RESTORATION TO PRE-PROJECT GRADE, MULCHING AND SEEDING.



Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DS: DM	APPROVED: 3 OF 32
DR: DM, RP	
REV. ch.	Four-0-0 ..-ACAD



SITE MAP KEY



TEMPORARY STAGING AREA.  
A = 42,717-SF

LIMIT ACCESS ACROSS TRAILS AND  
LAWN TO SMALL WHEELED AND  
RUBBER TRACKED EQUIPMENT FOR  
LANDSCAPING TASKS. NO RUTTING  
SHALL BE ALLOWED. SELECT ROUTE  
TO AVOID TREES AND UTILITIES.

MAINTAIN 2 LANES  
OF ACCESS AND  
PUBLIC USE OF BOAT  
RAMPS AT ALL TIMES

STOCK  
PILE /  
STAGING  
AREA

FAREWELL  
BEND STATE  
PARK

TEMPORARY  
CROSSING  
(SHEET 3)

PROTECT  
EXISTING  
PUMP  
HOUSE

LIMIT ACCESS ACROSS LAWN TO  
SMALL WHEELED AND RUBBER  
TRACKED EQUIPMENT FOR  
LANDSCAPING TASKS. NO RUTTING  
SHALL BE ALLOWED. SELECT ROUTE  
TO AVOID TREES AND UTILITIES.

LIMITS OF  
DISTURBANCE

→ SNAKE RIVER  
FLOW

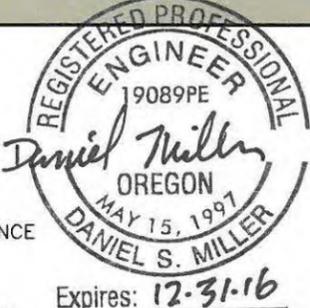
EXISTING  
BOAT  
LAUNCH  
AREA

SILT FENCE

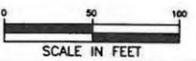
OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,  
**PLAN VIEW: SITE ACCESS**

**LEGEND**

- SILT FENCE
- SITE ACCESS
- STAGING/STOCKPILE
- LIMITS OF DISTURBANCE
- VEGETATED RIPRAP
- TEMPORARY CROSSING



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Farewell Bend State Park Bank Stabilization Project			
IDAHO POWER COMPANY BOISE, IDAHO			
SCALE: None	DATE: FEB 29, 2016		
DR. DM	APPROVED	4 OF 32	
DR. DM, RP			
REV. CH.	1	Four-0-0	..-ACAD

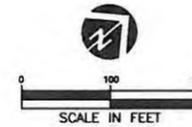


SITE MAP KEY

LEGEND

- SILT FENCE
- CP
- TEMPORARY CROSSING
- LIMITS OF DISTURBANCE
- ACCESS
- STAGING/STOCKPILE
- VEGETATED RIPRAP

NOTE:  
TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.



SURVEY CONTROL POINTS

Pt.	Northing	Easting	Elevation
BM99	1,172,944.93	1,189,391.54	2,081.69
CP 400 MAGNAIL	1,173,368.43	1,188,967.84	2,113.92
CP 300	1,173,127.44	1,189,187.62	2,102.77
CP 301	1,172,847.41	1,189,165.15	2,100.71
CP 302	1,172,767.32	1,189,157.25	2,101.32
CP 303	1,172,455.12	1,188,864.32	2,100.70
CP 304	1,172,177.70	1,188,734.30	2,092.94
CP 305	1,171,997.67	1,188,790.95	2,073.02
CP 306	1,171,763.23	1,188,791.91	2,069.98
CP 307	1,171,736.84	1,188,700.34	2,085.00
CP 401	1,172,651.98	1,189,173.38	2,068.93
CP 402	1,172,769.07	1,189,288.72	2,068.73
CP403	1,173,472.66	1,189,789.27	2,105.56



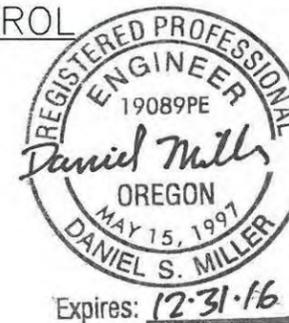
OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

PLAN VIEW: PROPOSED CONDITIONS/ SURVEY CONTROL

REFER TO SHEETS 2 AND 3 FOR GENERAL NOTES AND DETAILS  
REFER TO SHEETS 31 AND 32 FOR MINIMUM EROSION AND SEDIMENT CONTROL PLAN.

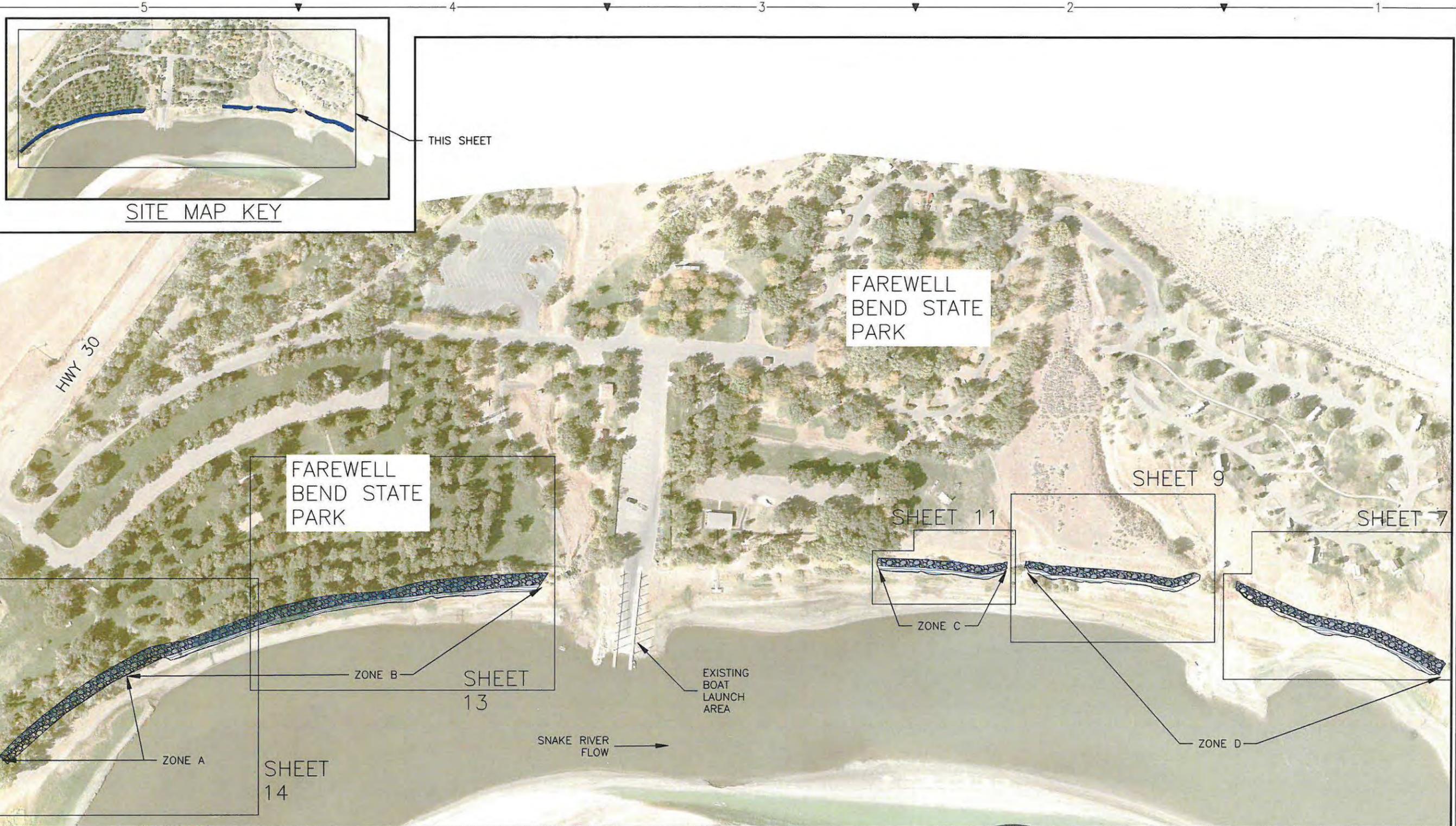
NOTES:

- PUBLIC ACCESS TO BOAT RAMP SHALL BE MAINTAINED AT ALL TIMES.
- SILT FENCE ALONG THE DOWNHILL LIMITS OF DISTURBANCE OF THE BOAT RAMP SHALL BE BACKED BY A BARRIER CONSTRUCTED OF CONTINUOUS ECOLOGY BLOCKS, JERSEY BARRIERS, CLEAN GRAVEL-COBBLE FILLED BULK SACS, OR OTHER APPROVED METHOD.



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Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM APPROVED	5 OF 32
REV. CH. 1	Four-0-0 ..-ACAD



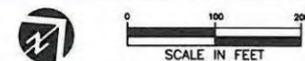
OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

PLAN VIEW: FINISHED CONDITIONS OVERVIEW

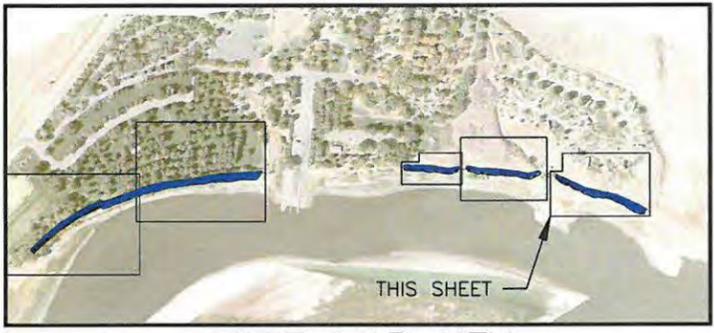
LEGEND

 VEGETATED RIPRAP

NOTE: SEE SHEETS 17 THROUGH 30 FOR LANDSCAPE DETAILS



FAREWELL BEND STATE PARK Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DS: DM	APPROVED: 6 OF 32
DR: DM, RP	Four-0-0
REV. CH.	1
	...ACAD

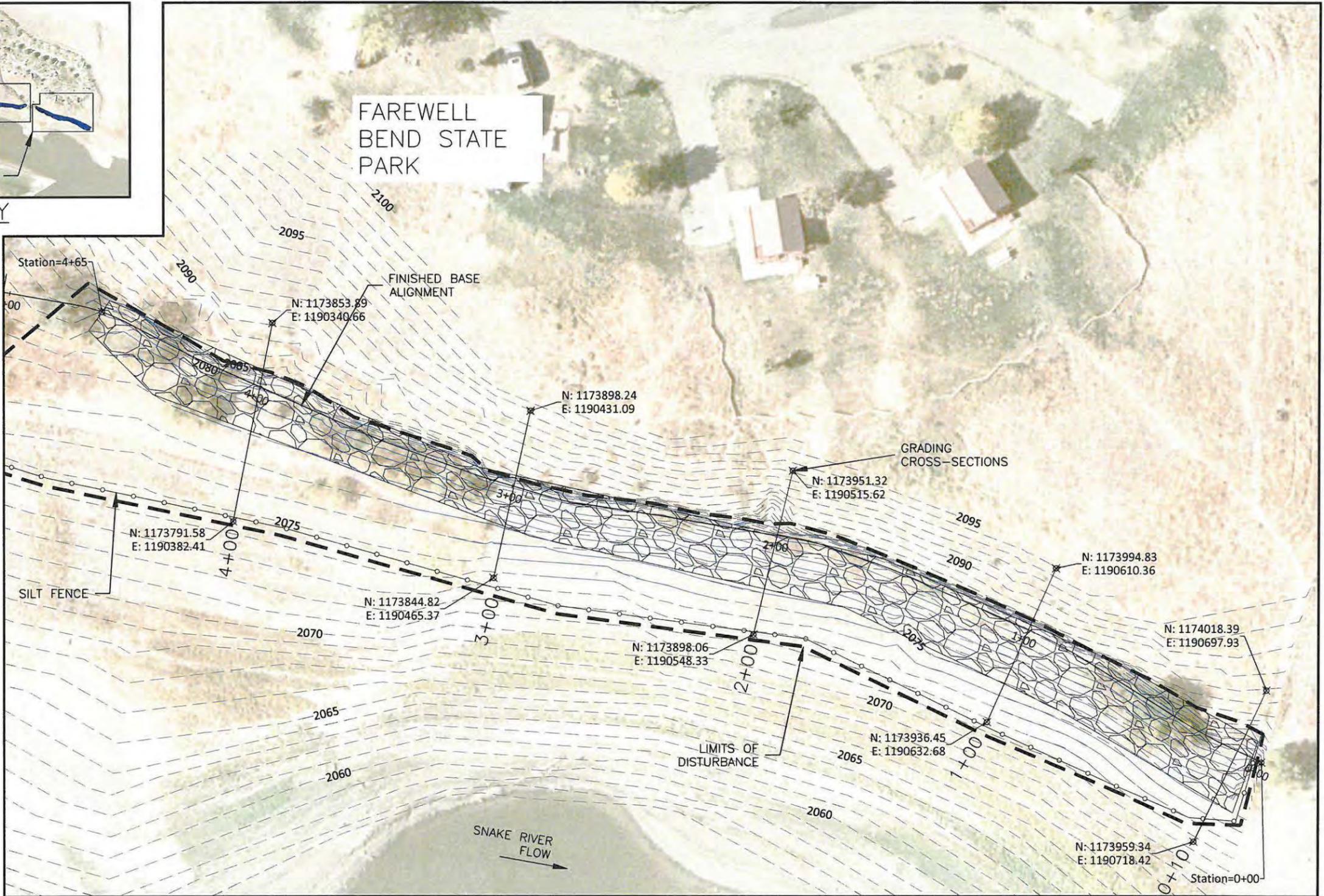


SITE MAP KEY

NOTE:  
 TOPOGRAPHIC INFORMATION WAS PROVIDED  
 BY: 1) IPC, 2) HANLEY ENGINEERING, INC.  
 AND 3) INTER-FLUVE INC. HORIZONTAL  
 SURVEY DATUM IS UTM NAD83/BLM 14N  
 (ftUS). ELEVATIONS ARE VERTICAL DATUM:  
 NAVD88.

LEGEND

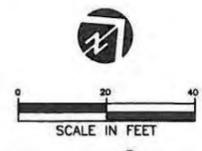
- SILT FENCE
- LIMITS OF DISTURBANCE
- ▨ VEGETATED RIPRAP
- 2+00 GRADING SECTION (SEE SHEET 8)
- - - EXISTING CONTOUR (1')
- PROPOSED CONTOUR (1')



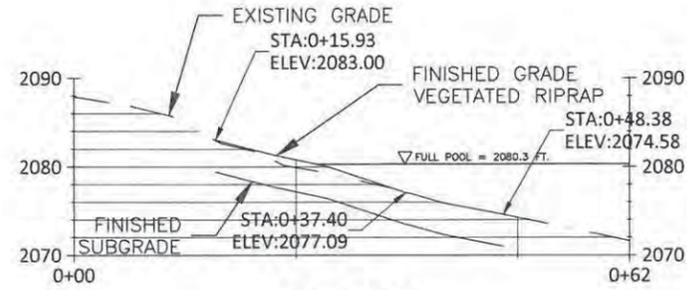
OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

PLAN VIEW: FINISHED CONDITIONS STA 0+00 TO 4+70

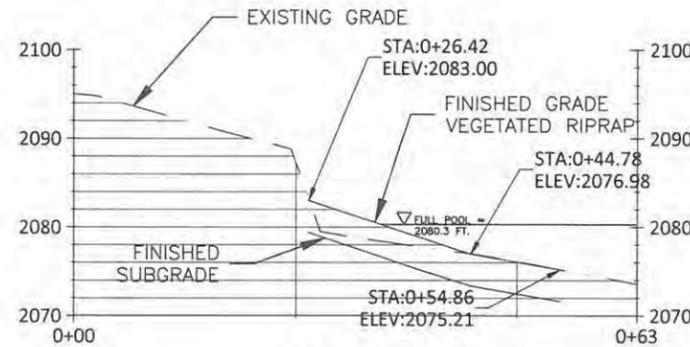
SEE SHEETS 17 THROUGH 30 FOR LANDSCAPE DETAILS  
 CONTOURS ARE APPROXIMATE



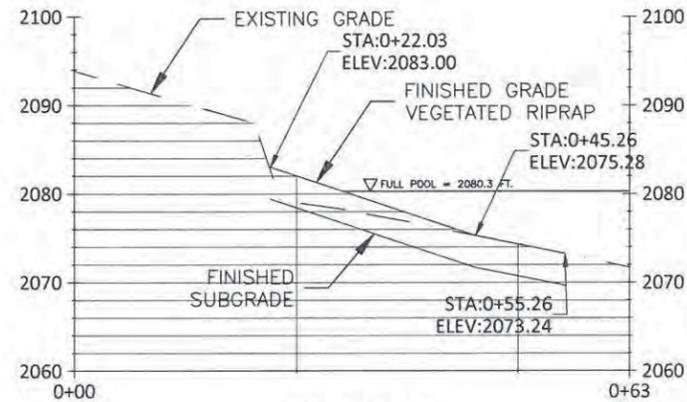
Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM, RP	APPROVED 7 OF 32
REV. CH.	Four-0-0 ...-ACAD



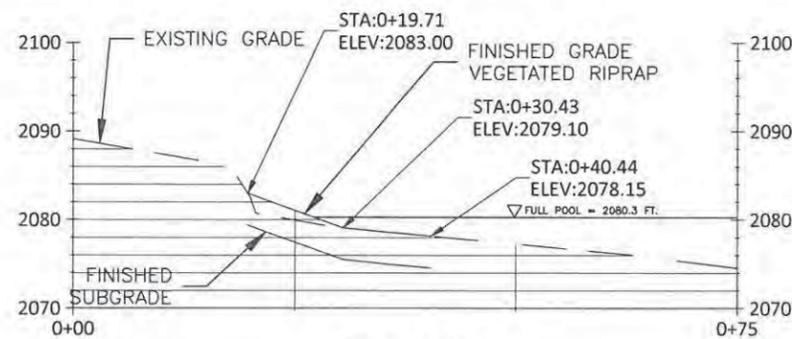
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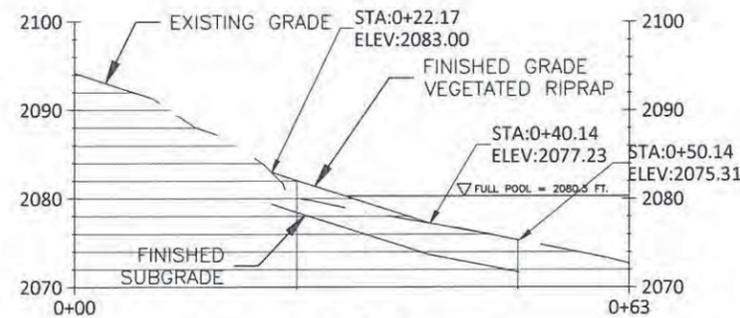
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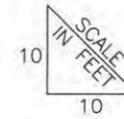
**XS 1+00**



**XS 4+00**



**XS 2+00**



NOTE:  
 TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.

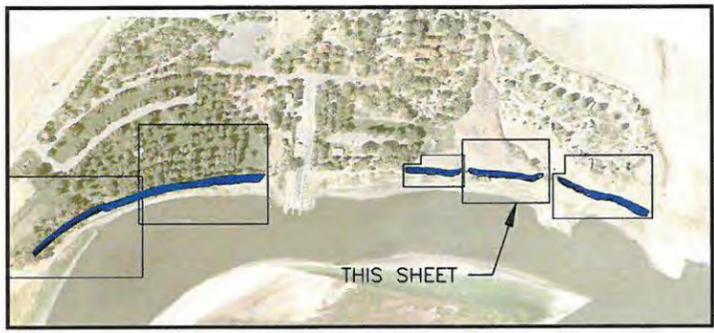
**GRADING SECTIONS - STA 0+00 TO 4+70**

SEE SHEET 16 FOR VEGETATED RIPRAP PLACEMENT DETAILS



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Farewell Bend State Park Bank Stabilization Project			
IDAHO POWER COMPANY BOISE, IDAHO			
SCALE: None	DATE: FEB 29, 2016		
DR. DM	APPROVED	8 OF 32	
REV. CH.		Four-0-0	..-ACAD

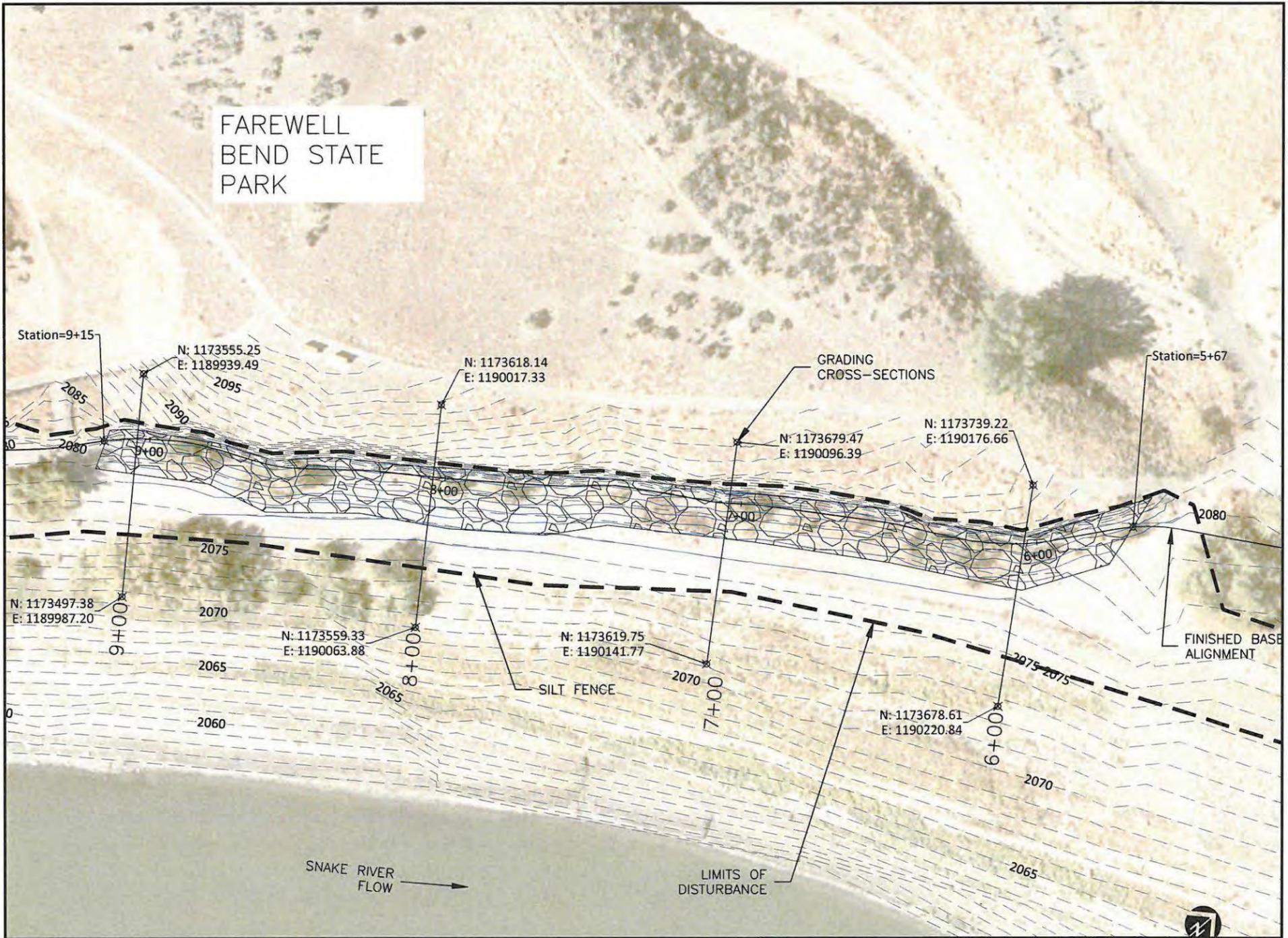


SITE MAP KEY

LEGEND

- SILT FENCE
- LIMITS OF DISTURBANCE
- ▨ VEGETATED RIPRAP
- 7+00 GRADING SECTION (SEE SHEET 10)
- - - EXISTING CONTOUR (1')
- PROPOSED CONTOUR (1')

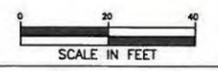
NOTE:  
 TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.



OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

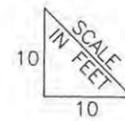
PLAN VIEW: FINISHED CONDITIONS STA 5+60 TO 9+15

SEE SHEETS 17 THROUGH 30 FOR LANDSCAPE DETAILS  
 CONTOURS ARE APPROXIMATE

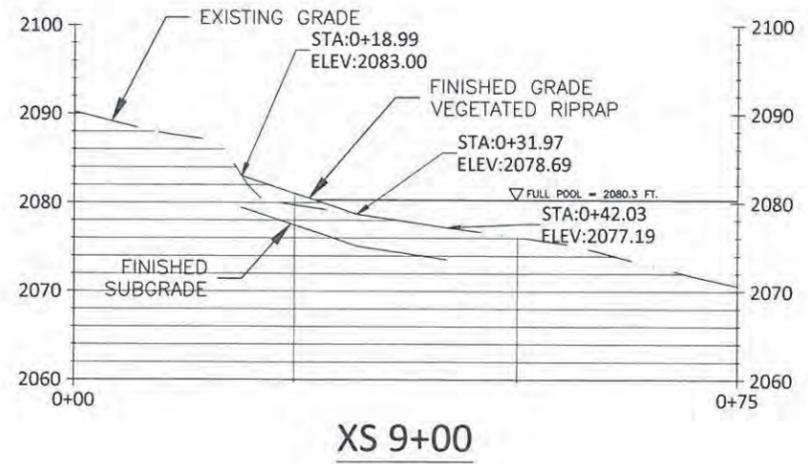
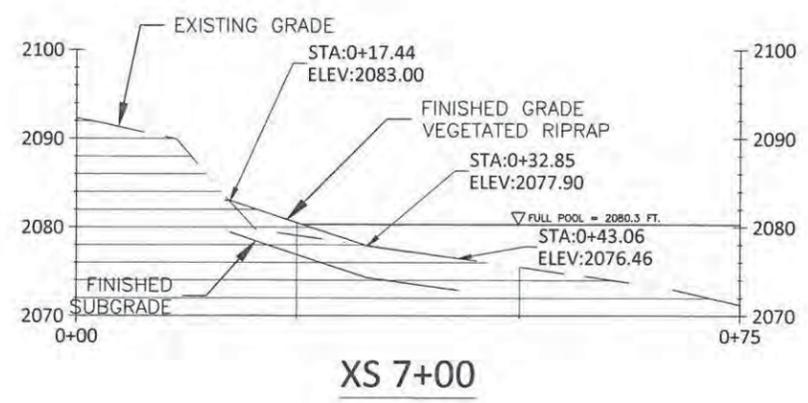
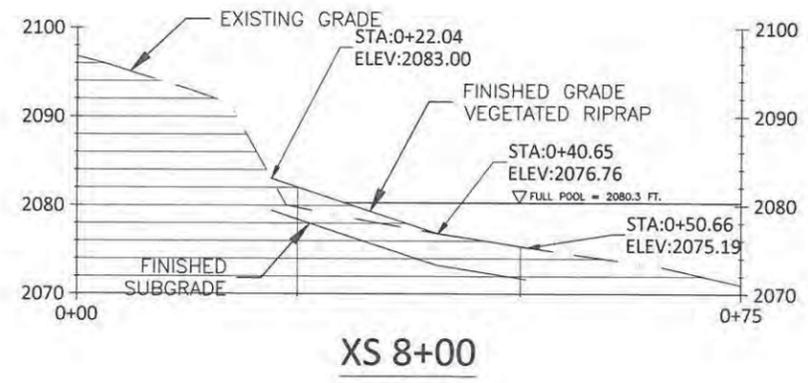
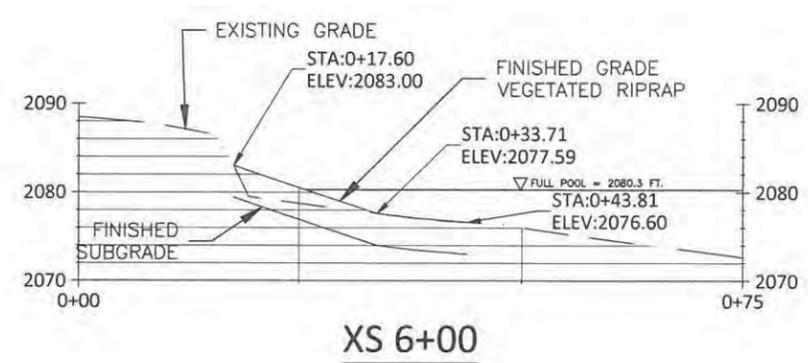


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Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM, RP	APPROVED 9 OF 32
REV. CH.	Four-0-0 ...-ACAD



NOTE:  
 TOPOGRAPHIC INFORMATION WAS PROVIDED  
 BY: 1) IPC, 2) HANLEY ENGINEERING, INC.  
 AND 3) INTER-FLUVE INC. HORIZONTAL  
 SURVEY DATUM IS UTM NAD83/BLM 14N  
 (ftUS). ELEVATIONS ARE VERTICAL DATUM:  
 NAVD88.

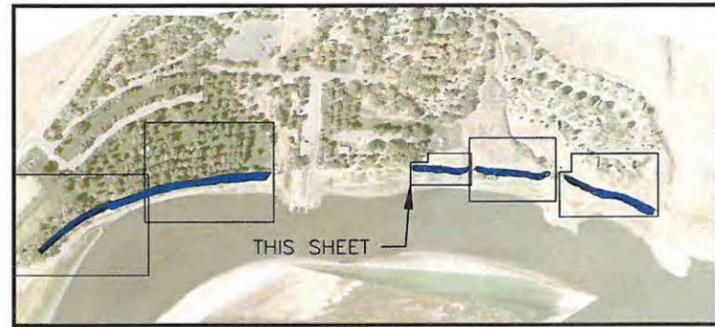


GRADING SECTIONS - STA 5+60 TO 9+15

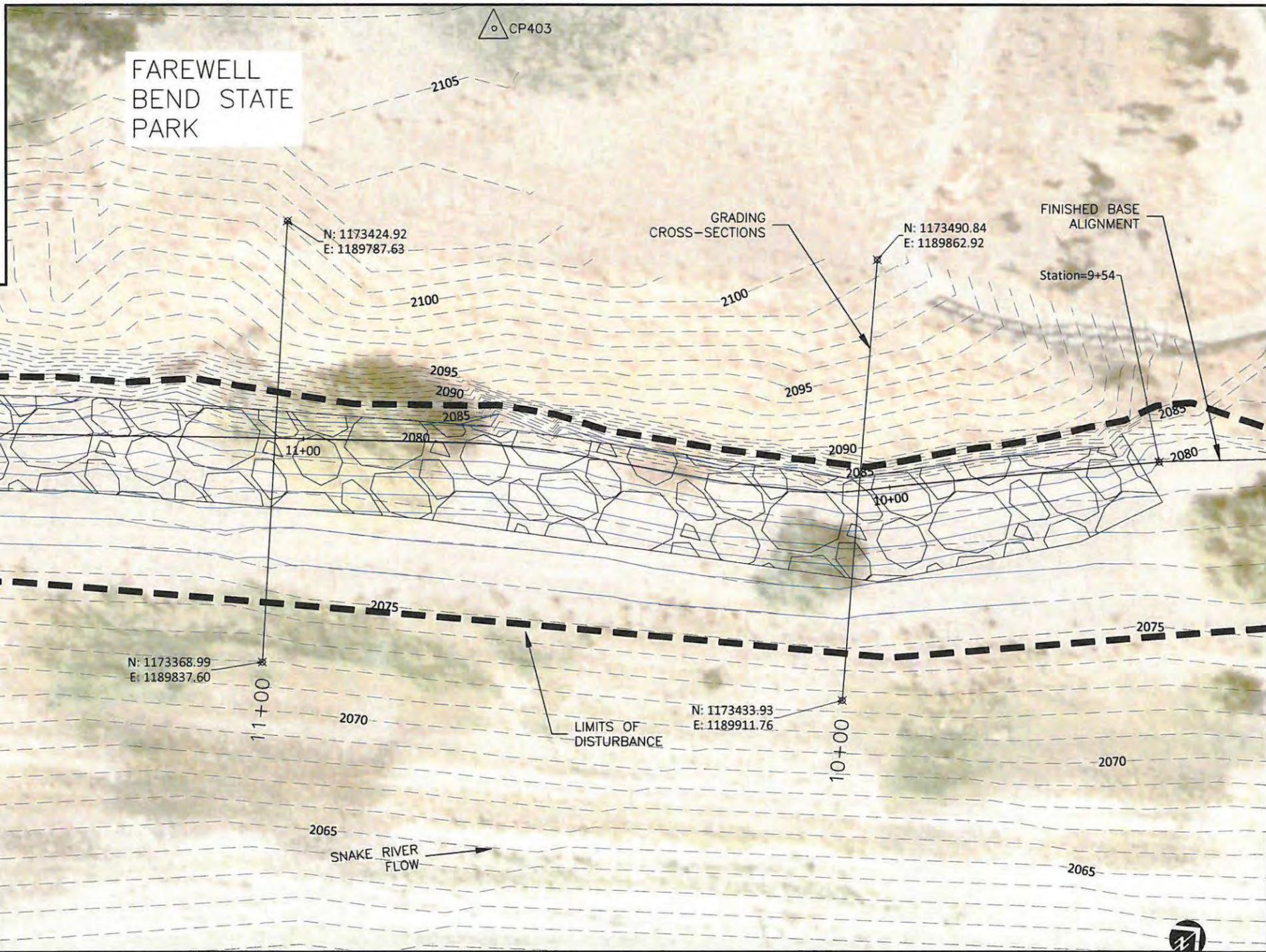
SEE SHEET 16 FOR VEGETATED RIPRAP PLACEMENT DETAILS



Farewell Bend State Park Bank Stabilization Project			
IDAHO POWER COMPANY BOISE, IDAHO			
SCALE: None	DATE: FEB 29, 2016		
DS: DM	APPROVED	10 OF 32	
DR: DM,RP			
REV. ch.	1	Four-0-0	..-ACAD



SITE MAP KEY



OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC, SEE SHEETS 17 THROUGH 30 FOR LANDSCAPE DETAILS CONTOURS ARE APPROXIMATE

NOTE: TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.

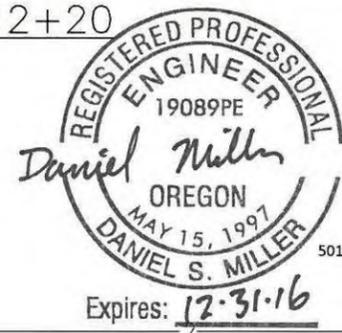
SURVEY CONTROL POINTS

Pt.	Easting	Northing	Elev
CP403	1,189,789.27	1,173,472.66	2105.56

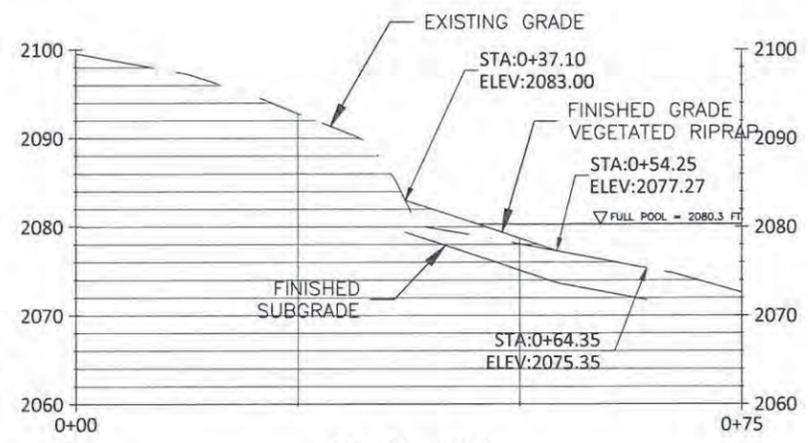
PLAN VIEW: FINISHED CONDITIONS STATION 9+55 TO 12+20

LEGEND

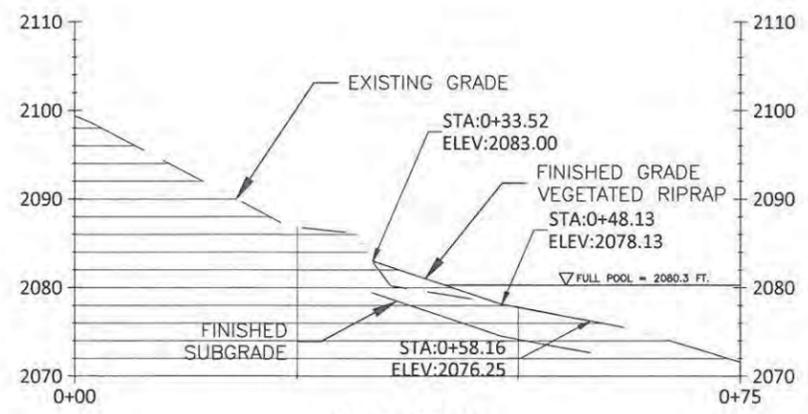
- CP
- SILT FENCE
- VEGETATED RIPRAP
- LIMITS OF DISTURBANCE
- 11+00 — GRADING SECTION (SEE SHEET 12)
- EXISTING CONTOUR (1')
- PROPOSED CONTOUR (1')



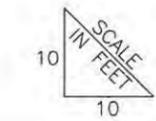
Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM	APPROVED 11 OF 32
DR. DM, RP	Four-0-0
REV. CH.	...-ACAD



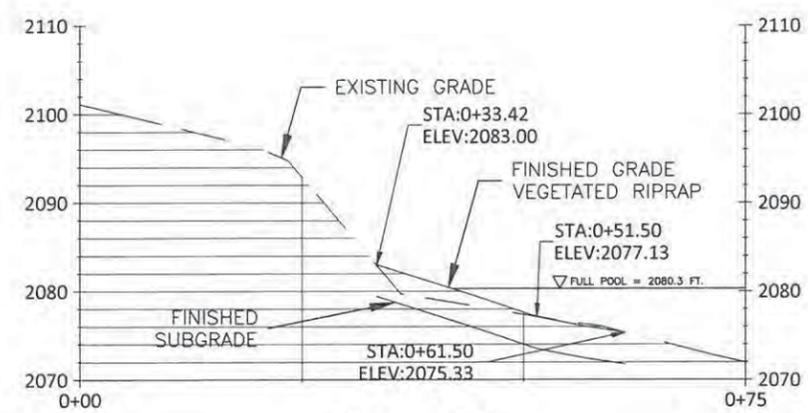
**XS 10+00**



**XS 12+00**



NOTE:  
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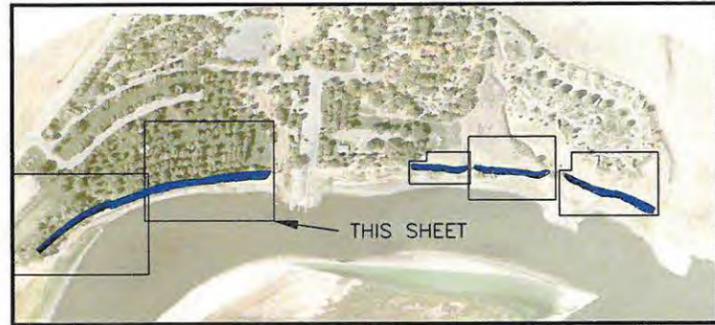
**XS 11+00**

**GRADING SECTIONS — STA 9+55 TO 12+20**

SEE SHEET 16 FOR VEGETATED RIPRAP PLACEMENT DETAILS



Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM	APPROVED 12 OF 32
DR. DM/PP	Four-0-0 ..-ACAD
REV. CH.	1



SITE MAP KEY

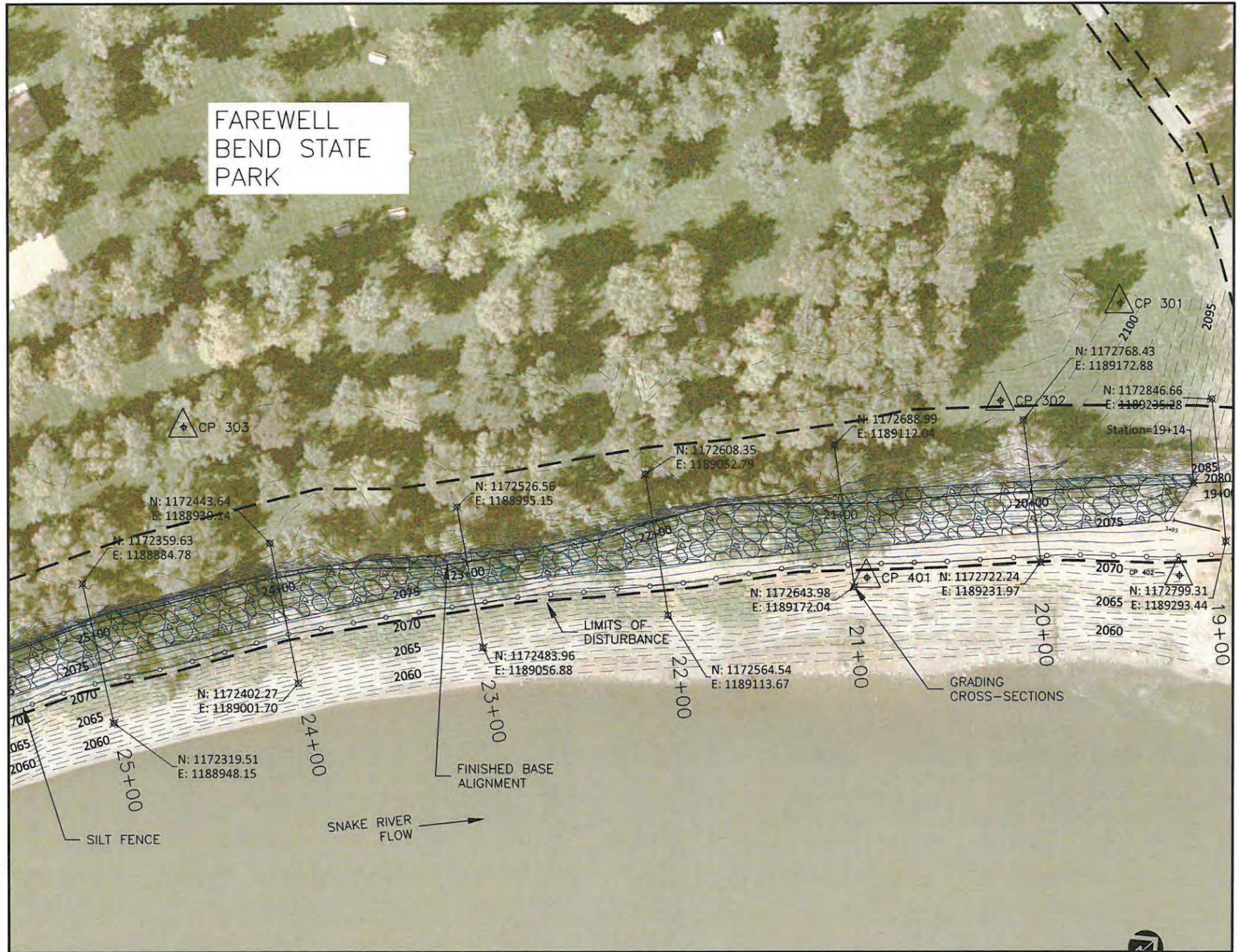
LEGEND

- SILT FENCE
- CP
- LIMITS OF DISTURBANCE
- VEGETATED RIPRAP
- FINISHED GRADING
- GRADING SECTION (SHEET 15)
- EXISTING CONTOUR (1')
- PROPOSED CONTOUR (1')

NOTE:  
TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.

SURVEY CONTROL POINTS

Pt.	Easting	Northing	Elev
CP 301	1,189,165.15	1,172,847.41	2100.71
CP 302	1,189,157.25	1,172,767.32	2101.32
CP 303	1,188,864.32	1,172,455.12	2100.70
CP 401	1,189,173.38	1,172,651.98	2068.93
CP 402	1,189,288.72	1,172,769.07	2068.73



OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

PLAN VIEW: FINISHED CONDITIONS STATION 19+15 TO 25+50

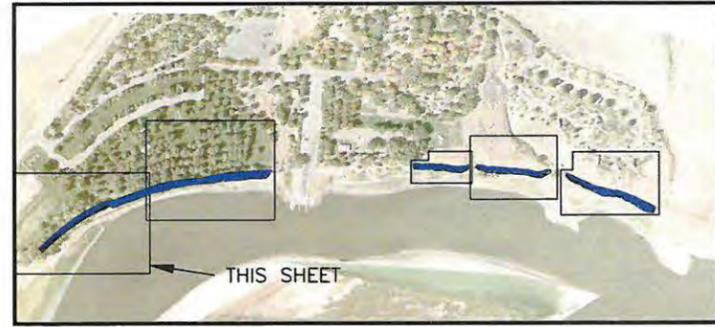
SEE SHEETS 17 THROUGH 30 FOR LANDSCAPE DETAILS

CONTOURS ARE APPROXIMATE

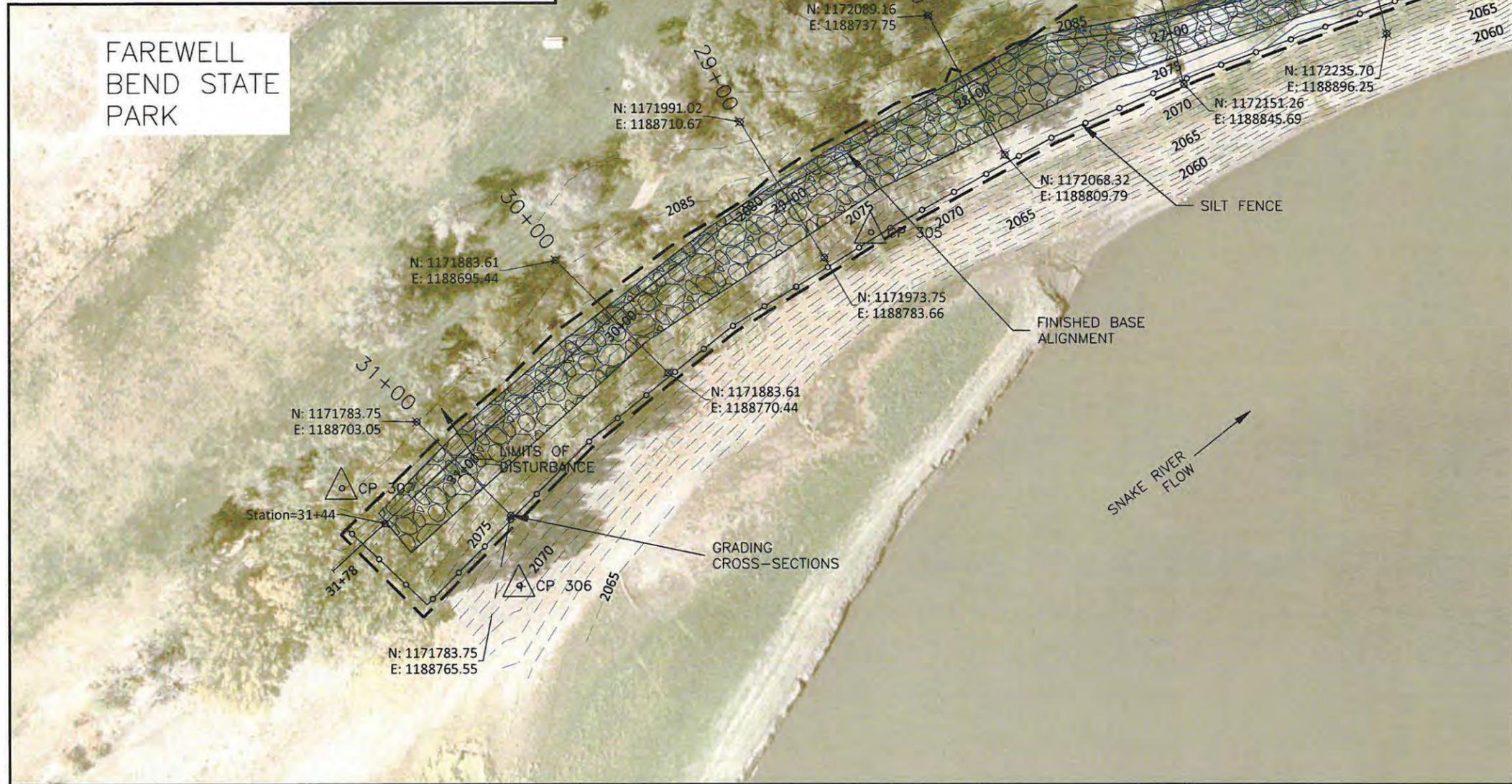


Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM	APPROVED 13 OF 32
DR. DM, RP	Four-0-0 ..-ACAD
REV. CH.	1

REVISION



SITE MAP KEY



OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

SEE SHEETS 17 THROUGH 30 FOR LANDSCAPE DETAILS

CONTOURS ARE APPROXIMATE

PLAN VIEW: FINISHED CONDITIONS 25+50 TO 31+45

LEGEND

- CP
- 11+00 — GRADING SECTION (SEE SHEET 12)
- EXISTING CONTOUR (1')
- SILT FENCE
- VEGETATED RIPRAP
- PROPOSED CONTOUR (1')
- LIMITS OF DISTURBANCE

SURVEY CONTROL POINTS

Pt.	Easting	Northing	Elev
CP 304	1,188,734.30	1,172,177.70	2092.94
CP 305	1,188,790.95	1,171,997.67	2073.02
CP 306	1,188,791.91	1,171,763.23	2069.98
CP 307	1,188,700.34	1,171,736.84	2085.00



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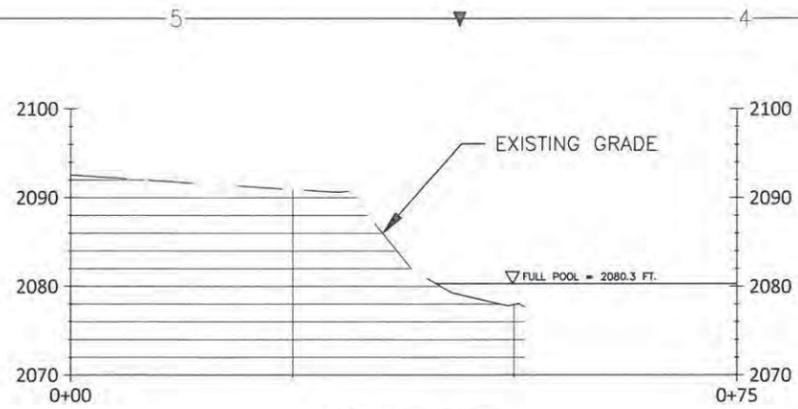
Farewell Bend State Park Bank Stabilization Project

IDAHO POWER COMPANY BOISE, IDAHO

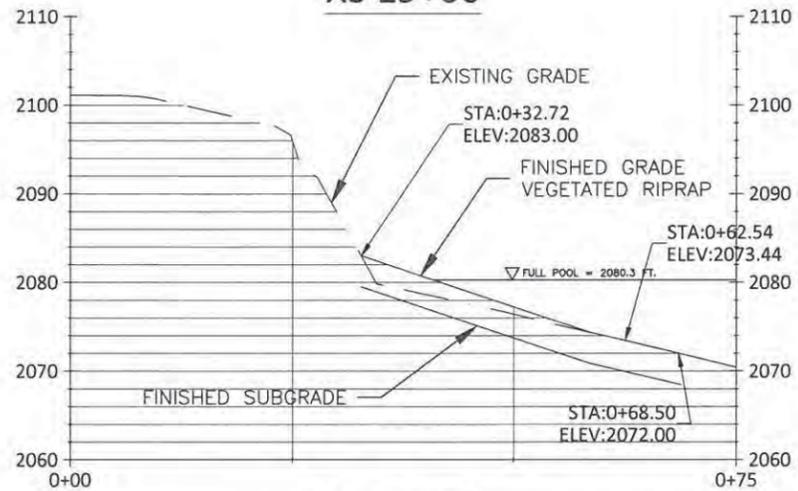
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APPROVED 14 OF 32

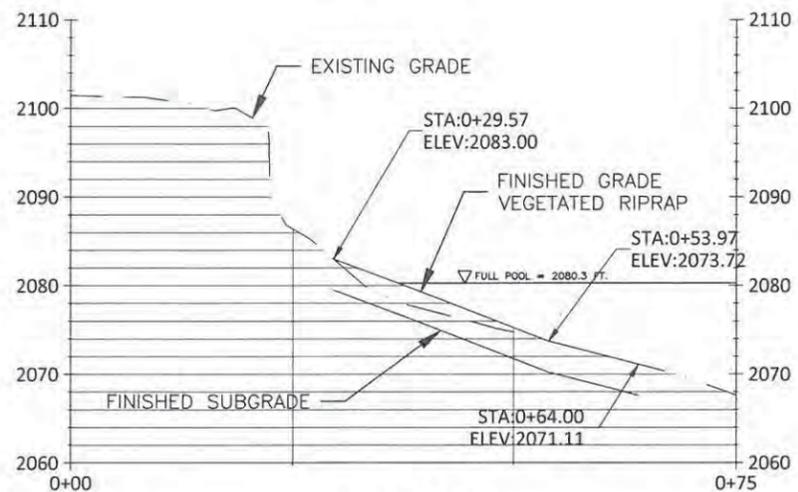
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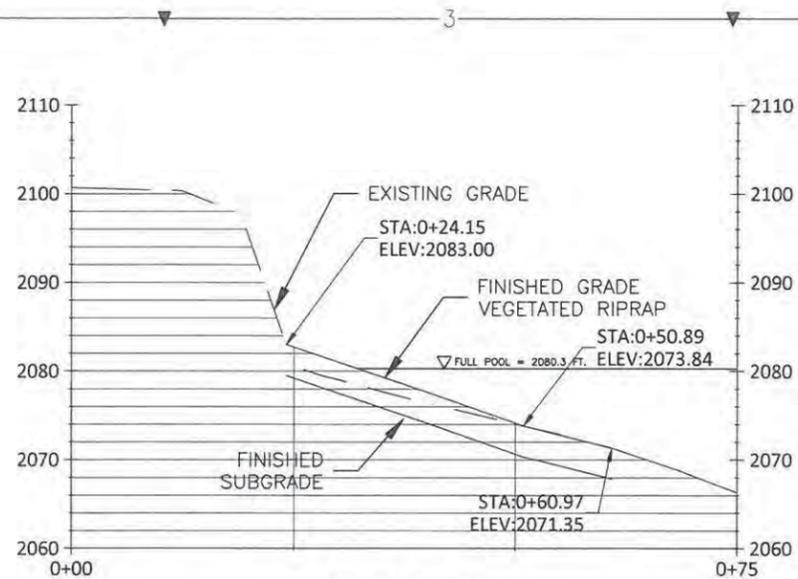
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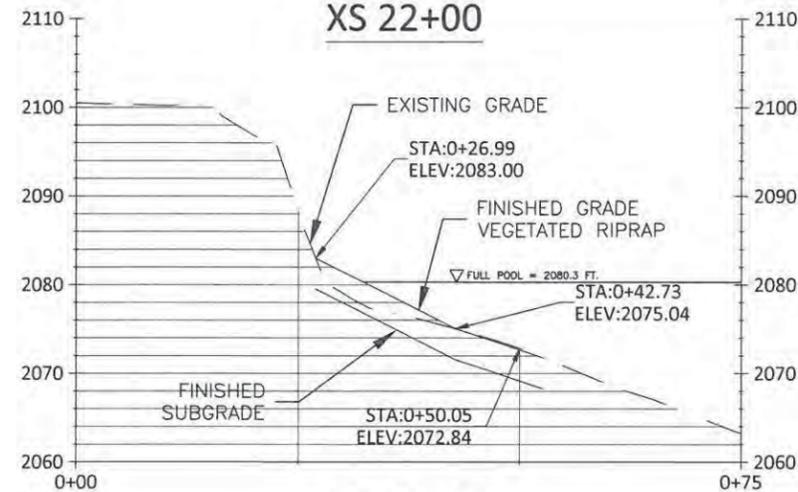
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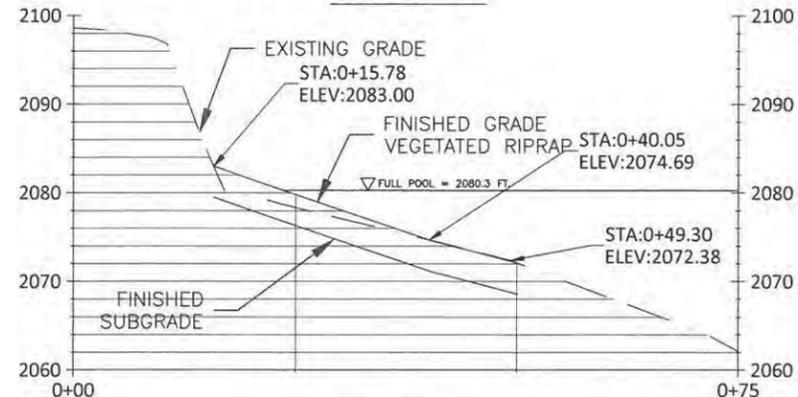
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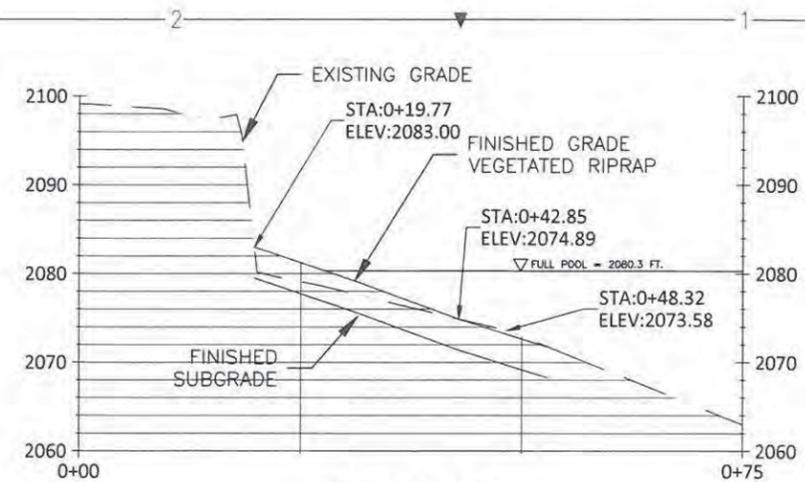
XS 22+00



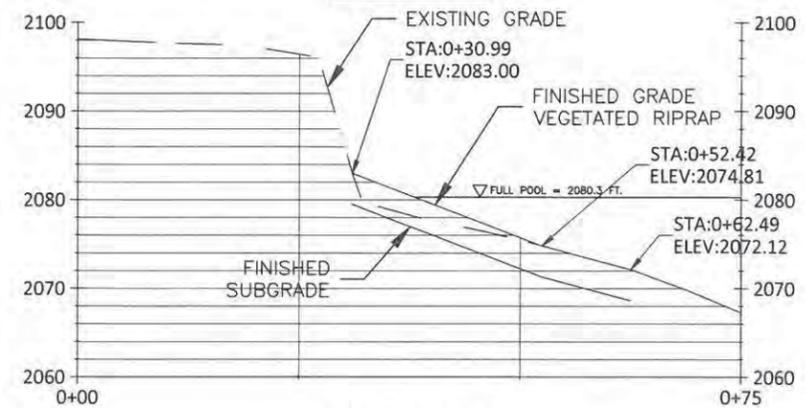
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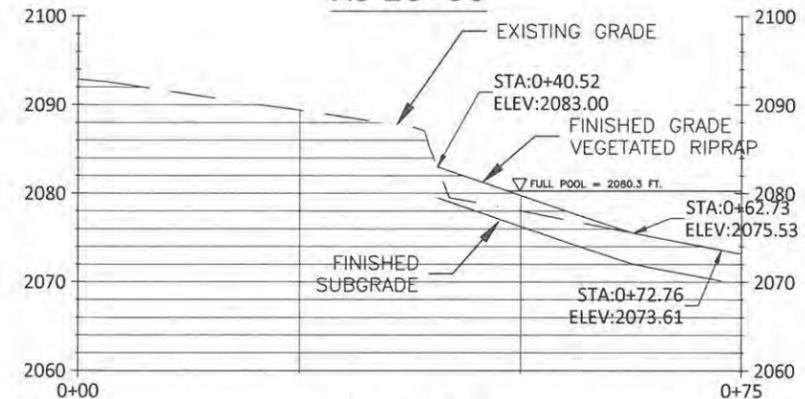
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XS 25+00



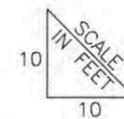
XS 26+00



XS 27+00

GRADING SECTIONS - STA 19+00 TO 27+00

SEE SHEET 16 FOR VEGETATED RIPRAP PLACEMENT DETAILS

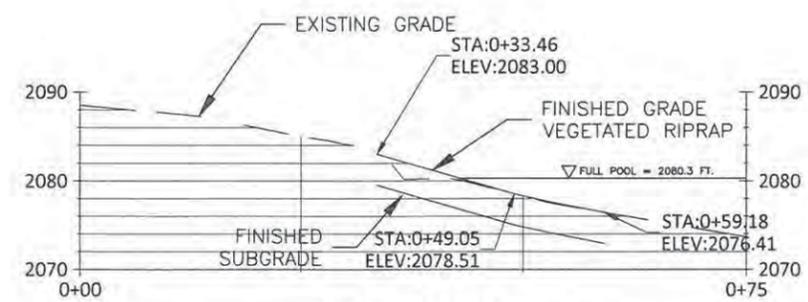


NOTE:  
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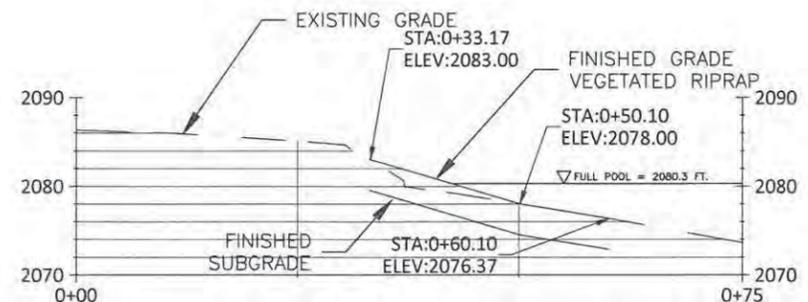


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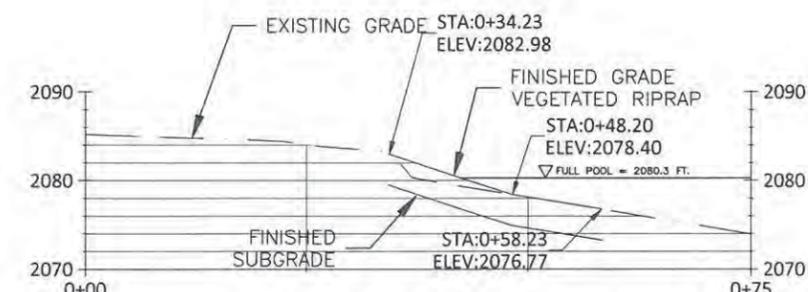
Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: None	DATE: FEB 29, 2016
DR. DM	APPROVED 15 OF 32
DR. DM/PP	
REV. CH.	Four-0-0 ...-ACAD



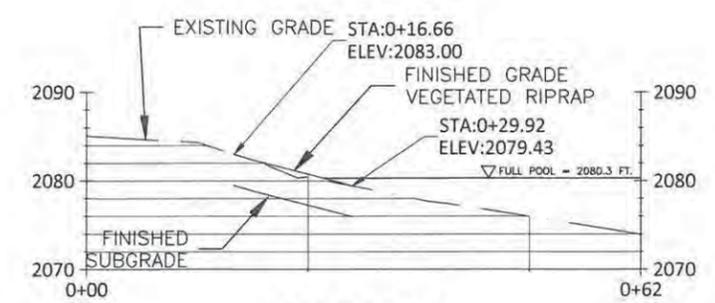
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**XS 29+00**

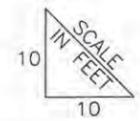


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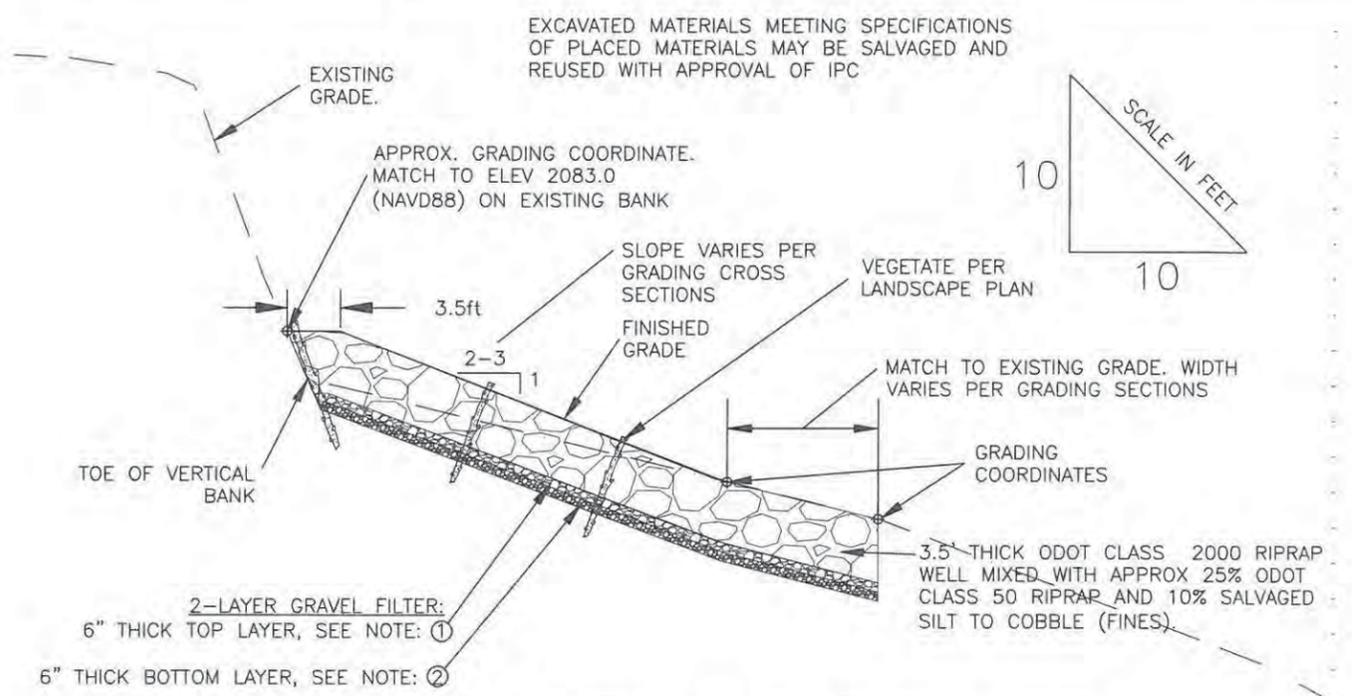


**XS 31+00**

**GRADING SECTIONS - STA 28+00 TO 31+00**



NOTE:  
TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.



- ① TOP FILTER LAYER GRADATION:
  - D100 < 3"
  - D85 > 2.25"
  - D50 > 1.0"
  - 0.25" < D15 < 2.25"
- ② BOTTOM FILTER LAYER GRADATION:
  - D100 < 0.75"
  - D85 > 0.5"
  - D50 > 0.1"
  - 0.1" < D15 < 0.5"

**SECTION VIEW: VEGETATED RIPRAP**

Item	Est. Quantity	Units
General excavation	9580	C.Y.
Filter blanket - 6in bottom layer	1270	C.Y.
Filter blanket - 6in top layer	1270	C.Y.
ODOT Class 2000 riprap 3.5ft thick	9100	C.Y.
- Fill voids: 20% ODOT Class 50 riprap; approx.	1820	C.Y.
- Fill voids: 10% salvaged silt-cobble; approx.	910	C.Y.

NOTES:  
1) ESTIMATED QUANTITIES ARE IN PLACE CONDITION. DOES NOT INCLUDE EXPANSION OF EXCVATED MATERIAL OR COMPACTION OF PLACED MATERIAL  
2) QUANTITIES ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL QUANTITIES

**EARTHWORK QUANTITIES ESTIMATE**



**interfluve**  
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Hood River, OR 97031  
541.386.9003  
www.interfluve.com

*Farewell Bend State Park Bank Stabilization Project*

IDAHO POWER COMPANY BOISE, IDAHO

SCALE: None      DATE: FEB 29, 2016

DR. DM      APPROVED      16 OF 32

DR. DM, RP

REV. ch.      1      Four-0-0      ...-ACAD

# IRRIGATION LEGEND

## IRRIGATION HEADS

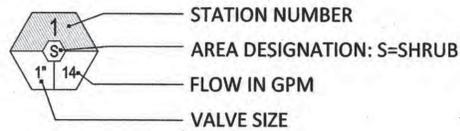
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	PSI	RAD.	GPM
	MAXI-PAW ROTOR	RAINBIRD	2045.PJ-90-HT	25	22'	1.5

## IRRIGATION EQUIPMENT

### SYMBOL DESCRIPTION

- BATTERY OPERATED CONTROL VALVE - RAINBIRD 150-PESB (DIRTY WATER VALVE)
- GATE VALVE
- IRRIGATION LATERAL LINE
- IRRIGATION MAIN LINE - COORDINATE CONNECTION TO EXISTING MAIN LINE WITH OPRD REPRESENTATIVE. SIZE AS SHOWN ON PLANS.
- EXISTING MAIN LINE
- EXISTING QUICK COUPLER VALVE

## CONTROL VALVE TARGET



# GENERAL NOTES

## IRRIGATION PLAN NOTES

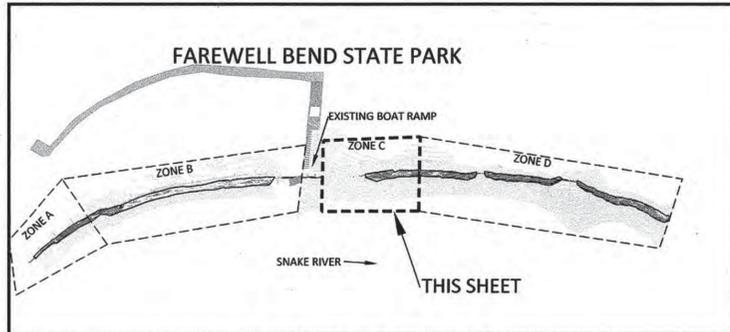
- ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS PROVIDED AS PART OF THE CONSTRUCTION DOCUMENT PACKAGE.
- CALL UTILITIES TO LOCATE EXISTING SERVICES PRIOR TO EXCAVATION.
- SYSTEM OPERATION AND DESIGN IS BASED ON 60 POUNDS OF PRESSURE AND 300 GALLONS PER MINUTE AT THE SHUTOFF VALVE. THE CONTRACTOR SHALL VERIFY THE DESIGN PRESSURE AND VOLUME BEFORE INSTALLATION AND NOTIFY OWNER IF THERE IS A DISCREPANCY.
- CONTRACTOR SHALL REFERENCE PLANTING PLAN(S) PRIOR TO INSTALLATION OF VALVES. LOCATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
- VALVE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE OPRD REPRESENTATIVE PRIOR TO INSTALLATION OF NEW IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LAYOUT OF ALL NEW PLANTING AND LAWN AREAS ON SITE BEFORE STARTING WORK AND IMMEDIATELY NOTIFY OWNER OF ANY DEVIATIONS FROM PLAN.
- NEW TREE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE OPRD REPRESENTATIVE PRIOR TO INSTALLATION OF NEW IRRIGATION SYSTEM.
- MAIN AND LATERAL LINES MAY BE SHOWN DIAGRAMMATICALLY FOR CLARITY. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE BEFORE MAKING CHANGES IN ROUTING OF PIPE OR LOCATION OF VALVES.
- THE CONTRACTOR SHALL COORDINATE CONNECTION OF BATTERY OPERATED VALVES TO EXISTING OPRD IRRIGATION SYSTEM WITH OPRD REPRESENTATIVE
- IF EXISTING IRRIGATION LINE IS PVC PIPE, PROVIDE CONNECTION TO NEW IRRIGATION SYSTEM USING STANDARD PVC FITTINGS. IF EXISTING IRRIGATION LINE IS POLYETHYLENE (PE) TUBE, PROVIDE CONNECTION USING STANDARD PVC T-FITTINGS WITH PE MALE ADAPTOR AND STAINLESS STEEL HOSE CLAMP. SEE DETAIL 2/SHEET 28.
- CONTRACTOR TO LOCATE MAIN DRAIN VALVE AT LOW POINT IN IRRIGATION ZONE TO ENSURE PROPER DRAINAGE.
- IRRIGATION SYSTEM, OTHER THAN MAIN LINE, ARE TO BE A TEMPORARY SYSTEM FOR USE DURING THE PLANT ESTABLISHMENT PERIOD. COORDINATE WITH OPRD REPRESENTATIVE PRIOR TO REMOVING. REMOVAL SHALL NOT DISRUPT FUNCTION OF EXISTING IRRIGATION SYSTEM.

REVISION



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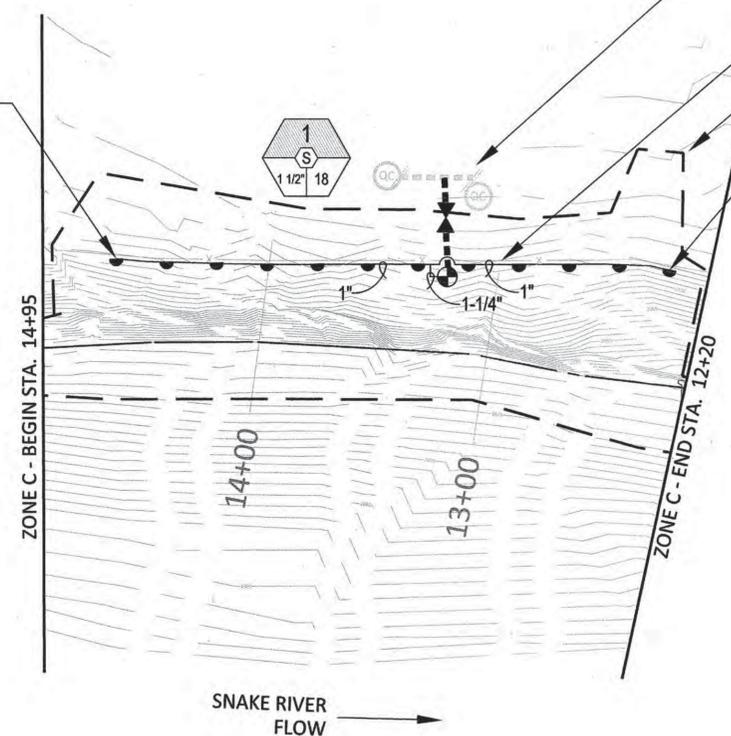
Farewell Bend State Park Bank Stabilization Project		VAILT NO. - 0-0 A
IDAHO POWER COMPANY BOISE, IDAHO		
SCALE: NONE	DATE: February 29, 2016	
DS. . . . .	APPROVED	17 OF 32
DR. . . . .		
REV. CH. . . . .	1	Four-0-0 ..-ACAD



**SITE MAP KEY**

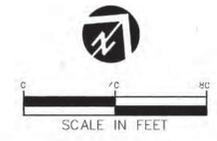
POINT OF CONNECTION - CONNECT TO EXISTING 1-1/2" MAIN LINE LOCATED NEAR PARK OFFICE. VERIFY LOCATION IN FIELD. PROVIDE NEW 1-1/2" MAINLINE WITH GATE VALVE AT CONNECTION POINT. COORDINATE WITH OPRD REPRESENTATIVE FOR SPECIFIC CONNECTION POINT.

END OF IRRIGATION LATERAL AT STA. 14+65



EXISTING FENCE  
LIMIT OF DISTURBANCE, ACCESS THROUGH OFFICE PARKING AREA  
END OF IRRIGATION LATERAL AT STA. 12+25

**ZONE C TEMPORARY IRRIGATION PLAN - STA. 12+20 TO STA. 14+95**

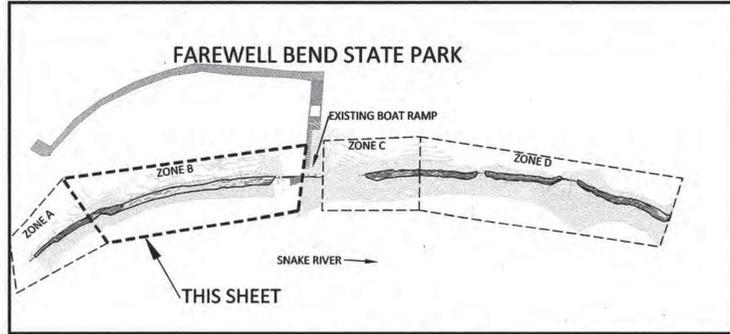


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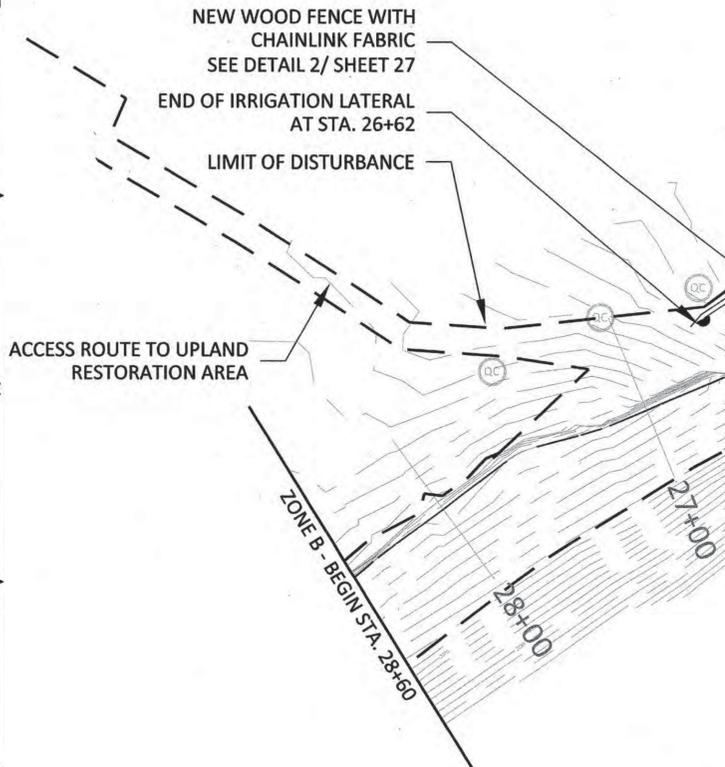
Farewell Bend State Park Bank Stabilization Project		IDAHO POWER COMPANY BOISE, IDAHO	
		SCALE: 1"=40'	DATE: February 29, 2016
DS. . .	APPROVED	18 OF 32	
DR. . .	[Signature]	Four-0-0 ..-ACAD	
REV. CH. . .	1	..-ACAD	

POINT OF CONNECTION - CONNECT TO EXISTING 4" MAIN LINE LOCATED NEAR PUMP HOUSE. VERIFY LOCATION IN FIELD. PROVIDE NEW 4" MAINLINE WITH GATE VALVE AT CONNECTION POINT. COORDINATE WITH OPRD REPRESENTATIVE FOR SPECIFIC CONNECTION POINT.

MAIN LINE AND VALVES SHOWN ARE DRAWN DIAGRAMMATICALLY FOR GRAPHIC CLARITY. INSTALL MAIN LINE AND VALVES ADJACENT TO LATERAL LINES ON EAST SIDE OF NEW FENCE.



SITE MAP KEY



ZONE B TEMPORARY IRRIGATION PLAN - STA. 20+29 TO STA. 28+60

SNAKE RIVER FLOW

ACCESS ROUTE TO UPLAND RESTORATION AREA  
END OF IRRIGATION LATERAL AT STA. 18+77

ZONE B - END STA. 18+75

ZONE B - BEGIN STA. 28+60



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FAREWELL BEND STATE PARK Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: 1"=40'	DATE: February 29, 2016
DR. APPROVED	19 OF 32
REV. CH.	Four-0-0 ...-ACAD

Vault No. A-1

# MASTER PLANT LIST

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY.
<b>DECIDUOUS TREES</b>				
ALNUS INCANA SSP.TENUIFOLIA	THINLEAF ALDER	1-1/2" CAL., B & B	AS SHOWN	9
ALNUS RHOMBIFOLIA	WHITE ALDER	5'-7' HT., B & B	AS SHOWN	16
BETULA OCCIDENTALIS	WATER BIRCH	5'-7' HT., B & B	AS SHOWN	10
POPULUS BALSAMIFERA SSP. TRICHOCARPA	BLACK COTTONWOOD	1-1/2" CAL., B & B	AS SHOWN	6
SALIX AMYGDALOIDES	PEACHLEAF WILLOW	5'-7' HT., B & B	AS SHOWN	16
			TOTAL:	57
<b>SHRUBS / GROUNDCOVER</b>				
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	1 GAL. CONT.	AS SHOWN	330
ROSA WOODSII	WOODS' ROSE	1 GAL. CONT.	AS SHOWN	384
HOLODISCUS DISCOLOR	OCEAN SPRAY	1 GAL. CONT.	AS SHOWN	152
SYMPHORICARPUS ALBUS	SNOWBERRY	1 GAL. CONT.	AS SHOWN	349
			TOTAL:	1215
BOTANICAL NAME	COMMON NAME	SIZE	PERCENTAGE	QTY.
<b>LARGE CUTTINGS MIX</b>				
SALIX BEBBIANA	BEWB WILLOW	6' MIN., 1-1/2" - 3-1/2" DIA	17%	380
SALIX BOOTHII	BOOTH WILLOW	6' MIN., 1-1/2" - 3-1/2" DIA	16%	356
SALIX EXIGUA SSP. EXIGUA	COYOTE WILLOW	6' MIN., 1-1/2" - 3-1/2" DIA	50%	1117
SALIX LUCIDA SSP. LASIANDRA	PACIFIC WILLOW	6' MIN., 1-1/2" - 3-1/2" DIA	17%	380
			TOTAL:	2233
<b>SMALL CUTTINGS MIX</b>				
CORNUS SERICEA	RED OSIER DOGWOOD	18" MIN., 3/4" DIA.	11%	267
SALIX BEBBIANA	BEWB WILLOW	18" MIN., 3/4" DIA.	22%	532
SALIX BOOTHII	BOOTH WILLOW	18" MIN., 3/4" DIA.	17%	411
SALIX EXIGUA SSP. EXIGUA	COYOTE WILLOW	18" MIN., 3/4" DIA.	22%	532
SALIX LASIOLEPIS	ARROYO WILLOW	18" MIN., 3/4" DIA.	11%	267
SALIX LUCIDA SSP. LASIANDRA	PACIFIC WILLOW	18" MIN., 3/4" DIA.	17%	411
			TOTAL:	2420
FASCINE BUNDLES	SEE DETAIL 3/SHEET 29		AS SHOWN	36
FASCINE BAG BUNDLES	SEE DETAIL 1/SHEET 30		AS SHOWN	1074

	APPLICATION RATE	QTY.
RESTORATION SEEDING	SEE SPECIFICATIONS	5,275 SQ.FT.

## BANK STABILIZATION PLANT COMMUNITIES

- 
**UPLAND RESTORATION** (TOTAL OF 23,941 SF)  
 PLANT THE FOLLOWING SHRUBS/ GRASSES/ GROUNDCOVERS PER PLANTING DETAILS ON SHEET 25 & 26.
- 
**RIPARIAN REVEGETATION** (TOTAL OF 4,335 SF)  
 PLANT THE FOLLOWING TREES AND SHRUBS PER PLANTING DETAIL ON SHEET 25.
- 
**VEGETATED RIP RAP** (TOTAL OF 30,195 SF)  
 PLANT THE FOLLOWING SHRUBS PER PLANTING DETAILS ON SHEET 24 & 26.

## GENERAL NOTES

- ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS PROVIDED AS PART OF THE CONSTRUCTION DOCUMENT PACKAGE.
- SEED ALL ADDITIONAL DISTURBED AREAS AS SPECIFIED.
- CONTRACTOR SHALL TAKE MEASURES AS INDICATED ON PLANS AND SPECIFICATIONS, AND AS NECESSARY IN ORDER TO PROTECT PLANTING FROM DAMAGE BY WILDLIFE TO ACHIEVE 100% TREE ESTABLISHMENT IN UPLAND RESTORATION AREAS, 85% TREE ESTABLISHMENT IN RIPARIAN REVEGETATION AREA, 80% SHRUB AND GROUNDCOVER ESTABLISHMENT, AND 50% LARGE AND SMALL CUTTINGS ESTABLISHMENT IN VEGETATED RIP RAP AND RIPARIAN REVEGETATION AREAS ACROSS ENTIRE SITE FOR TWO YEARS AS REQUIRED. INSTALL BROWSE PROTECTION PER DETAIL 7/SHEET 29 AND AS SPECIFIED.
- QUANTITIES ARE LISTED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED BY THE CONTRACTOR. IN CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED ON THE LEGEND.

REVISION



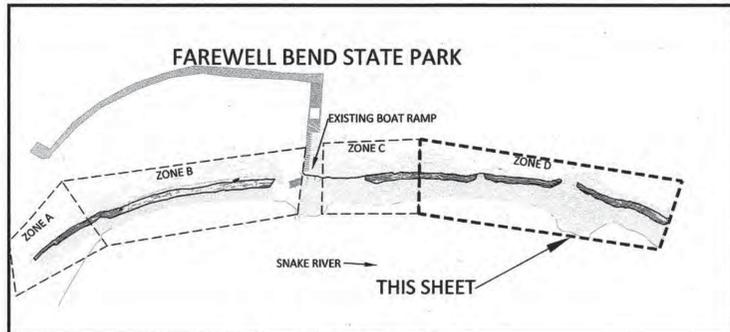
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*Farewell Bend  
 State Park  
 Bank Stabilization  
 Project*

IDAHO POWER COMPANY BOISE, IDAHO

SCALE: NONE DATE: February 29, 2016

DS.	APPROVED	20 OF 32
DR.		
REV.	ch.	Four-0-0 ..-ACAD



**SITE MAP KEY**

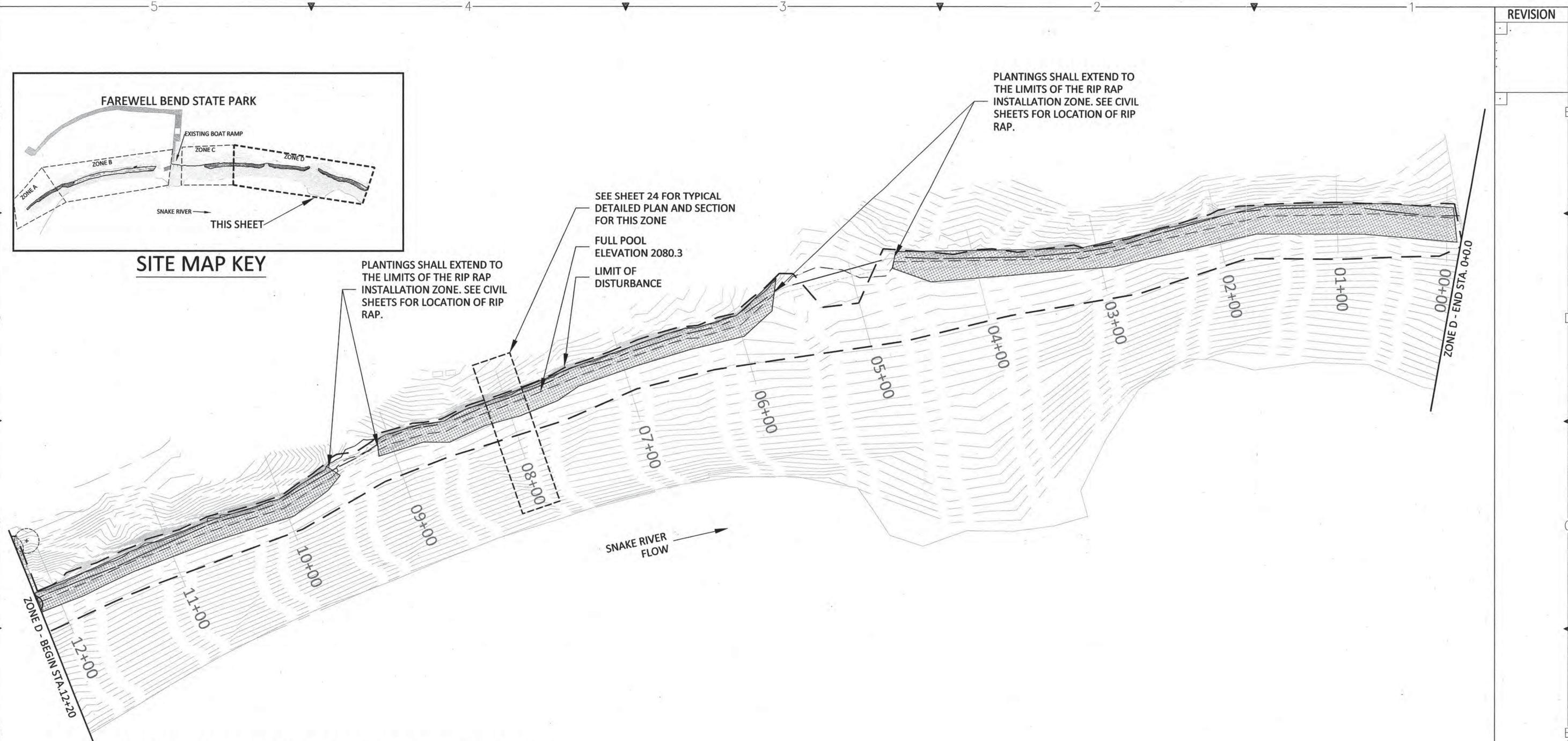
PLANTINGS SHALL EXTEND TO THE LIMITS OF THE RIP RAP INSTALLATION ZONE. SEE CIVIL SHEETS FOR LOCATION OF RIP RAP.

SEE SHEET 24 FOR TYPICAL DETAILED PLAN AND SECTION FOR THIS ZONE

FULL POOL ELEVATION 2080.3

LIMIT OF DISTURBANCE

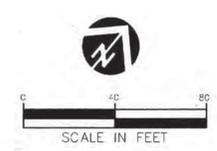
PLANTINGS SHALL EXTEND TO THE LIMITS OF THE RIP RAP INSTALLATION ZONE. SEE CIVIL SHEETS FOR LOCATION OF RIP RAP.



**ZONE D LANDSCAPE PLAN - STA. 0+00 TO STA. 12+20**

**BANK STABILIZATION PLANT COMMUNITIES**

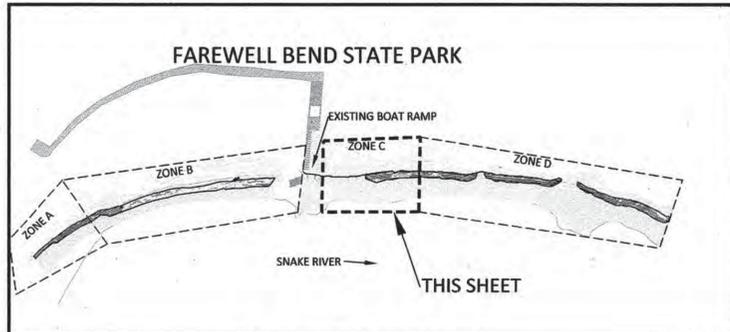
**VEGETATED RIPRAP**  
 PLANT THE FOLLOWING CUTTINGS PER PLANTING DETAILS ON SHEET 24. SEE SPECIFICATIONS FOR SEQUENCE OF PLANTING AND TEMPORARY IRRIGATION.



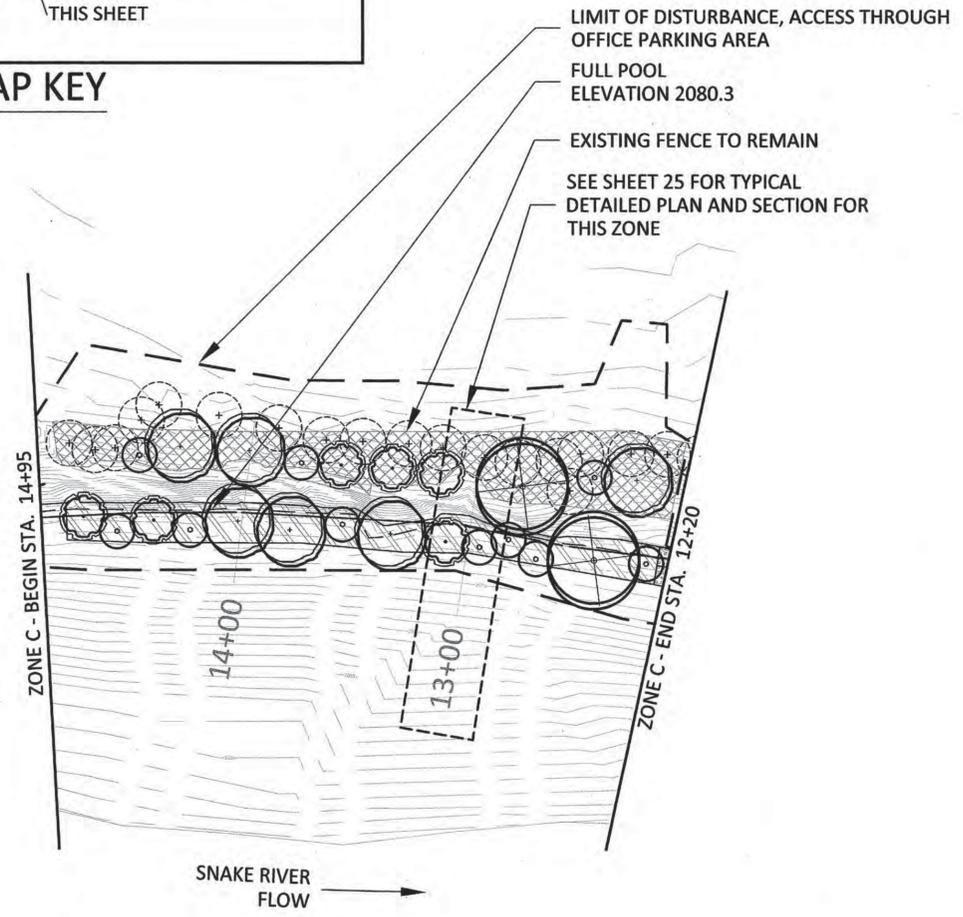
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Farewell Bend State Park Bank Stabilization Project	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: 1"=40'	DATE: February 29, 2016
DS. . . . .	APPROVED 21 of 32
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REV. . . . .	..-ACAD

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**SITE MAP KEY**



**ZONE C LANDSCAPE PLAN - STA. 12+20 TO STA. 14+95**

**BANK STABILIZATION PLANT COMMUNITIES**

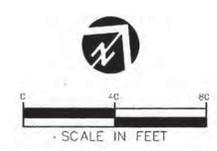
- UPLAND RESTORATION**  
PLANT THE FOLLOWING SHRUBS/ GRASSES/ GROUNDCOVERS PER PLANTING DETAILS ON SHEET 25.
- RIPARIAN REVEGETATION**  
PLANT THE FOLLOWING TREES AND SHRUBS PER PLANTING DETAIL ON SHEET 25. SEE SPECIFICATIONS FOR SEQUENCE OF PLANTING AND TEMPORARY IRRIGATION.

**TREE LEGEND**

BOTANICAL NAME	COMMON NAME
EXISTING TREE TO REMAIN	
ALNUS INCANA SSP. TENUIFOLIA	THINLEAF ALDER
ALNUS RHOMBIFOLIA	WHITE ALDER
BETULA OCCIDENTALIS	WATER BIRCH
POPULUS BALSAMIFERA SSP. TRICHOCARPA	BLACK COTTONWOOD
SALIX AMYGDALOIDES	PEACHLEAF WILLOW

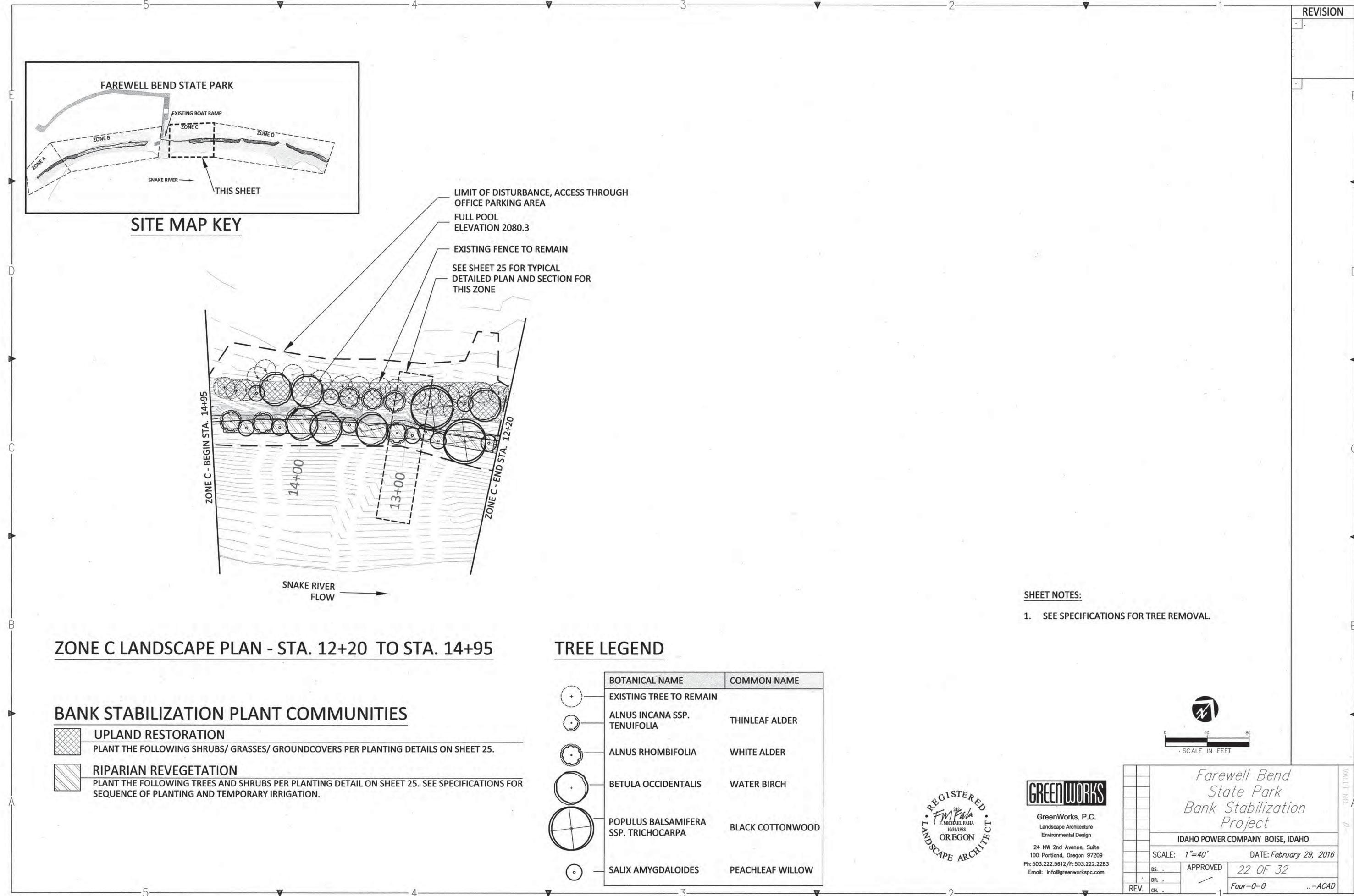
**SHEET NOTES:**

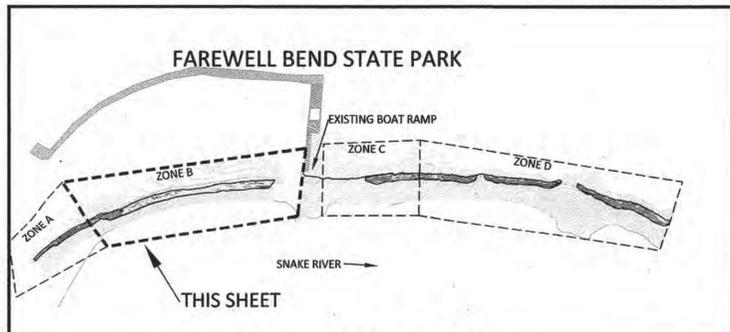
1. SEE SPECIFICATIONS FOR TREE REMOVAL.



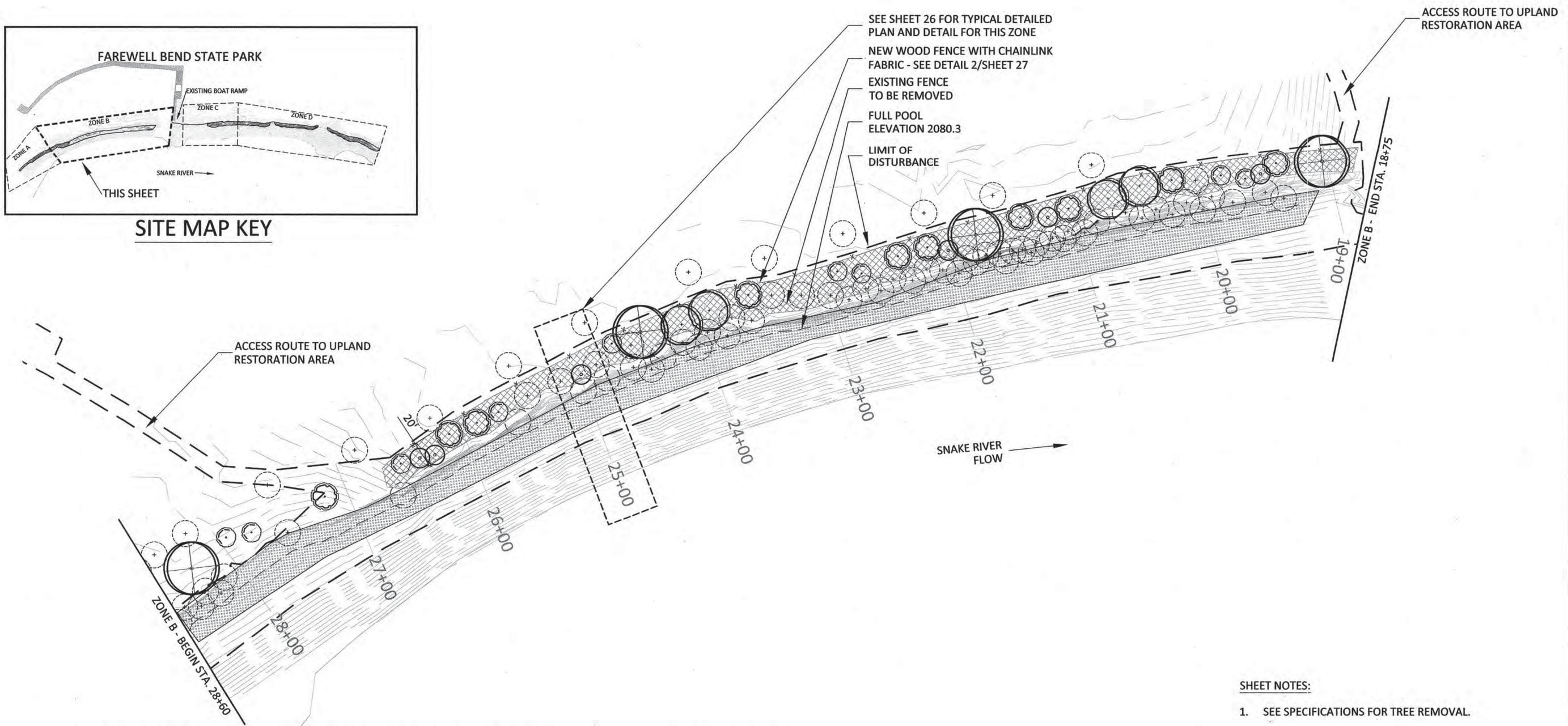
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<i>Farewell Bend State Park Bank Stabilization Project</i>	
IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: 1"=40'	DATE: February 29, 2016
DS. . . . .	APPROVED <i>[Signature]</i> 22 OF 32
DR. . . . .	
REV. CH. . . . .	Four-0-0 ..-ACAD





**SITE MAP KEY**



**ZONE B LANDSCAPE PLAN - STA. 20+29 TO STA. 28+60**

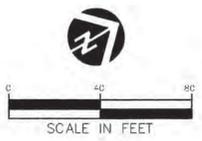
**BANK STABILIZATION PLANT COMMUNITIES**

- UPLAND RESTORATION**  
PLANT THE FOLLOWING SHRUBS/ GRASSES/ GROUNDCOVERS PER PLANTING DETAILS ON SHEET 26.
- VEGETATED RIPRAP**  
PLANT THE FOLLOWING CUTTINGS PER PLANTING DETAILS ON SHEET 26. SEE SPECIFICATIONS FOR SEQUENCE OF PLANTING AND TEMPORARY IRRIGATION.

**TREE LEGEND**

BOTANICAL NAME	COMMON NAME
EXISTING TREE TO REMAIN	
ALNUS INCANA SSP. TENUIFOLIA	THINLEAF ALDER
ALNUS RHOMBIFOLIA	WHITE ALDER
BETULA OCCIDENTALIS	WATER BIRCH
POPULUS BALSAMIFERA SSP. TRICHOCARPA	BLACK COTTONWOOD
SALIX AMYGDALOIDES	PEACHLEAF WILLOW

- SHEET NOTES:**
- SEE SPECIFICATIONS FOR TREE REMOVAL.



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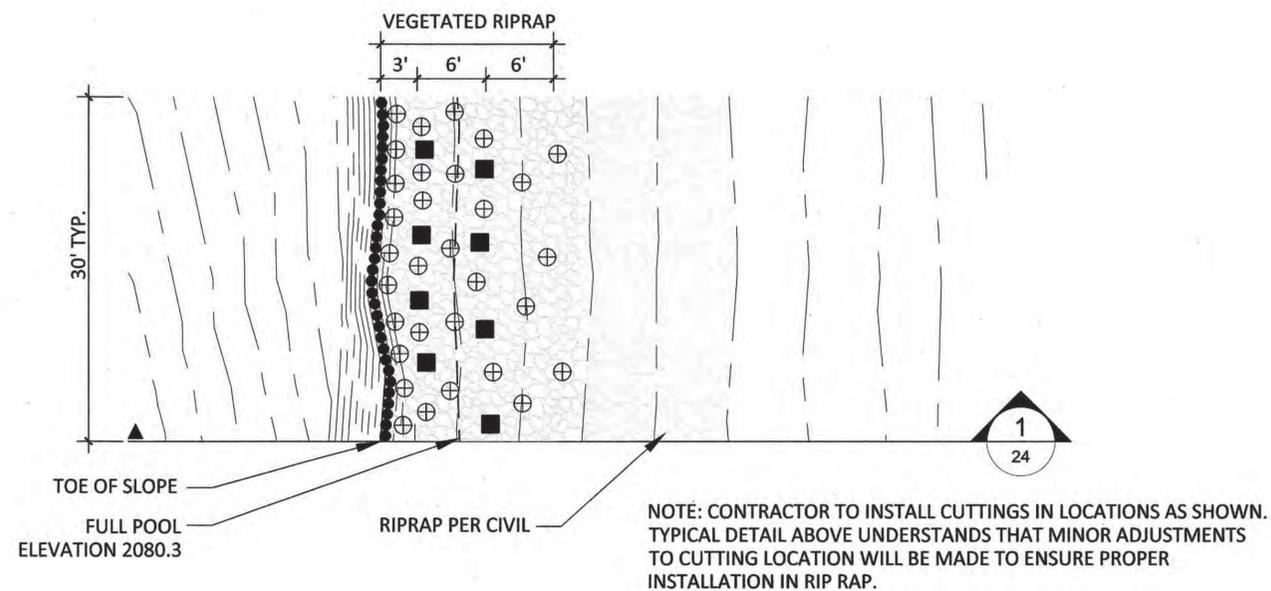
*Farewell Bend State Park Bank Stabilization Project*

IDAHO POWER COMPANY BOISE, IDAHO

SCALE: 1"=40'      DATE: February 29, 2016

DS. . . . .	APPROVED	23 OF 32
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VAULT NO. D-1



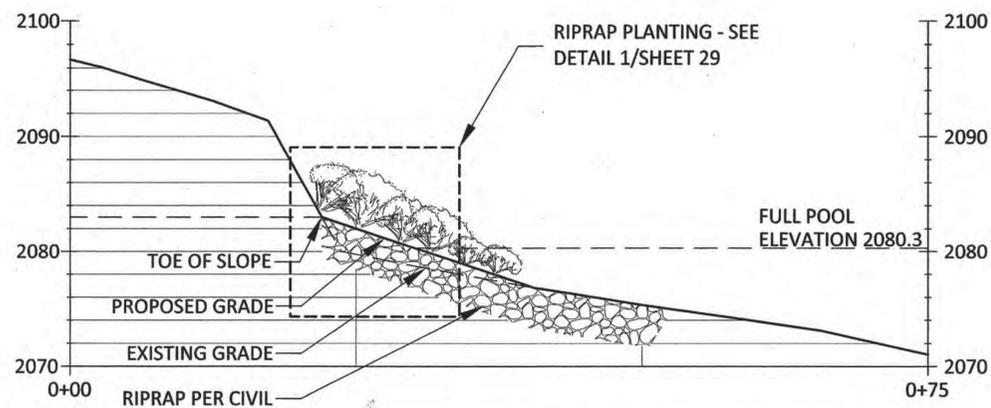
### PLANTING LEGEND

\*QUANTITY BASED ON 30' LINEAR FEET OF SHORELINE. ZONE D IS APPROX. 1,083 FEET LONG.

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY. *
<b>VEGETATED RIPRAP</b>				
⊕	LARGE CUTTINGS	SEE MASTER PLANT LIST FOR SPECIES MIX	6' MIN., 1-1/2" - 3-1/2" DIA.	AS SHOWN
●	SMALL CUTTINGS	SEE MASTER PLANT LIST FOR SPECIES MIX	18" MIN., 3/4" DIA.	AS SHOWN
■	FASCINE BAG	SEE MASTER PLANT LIST FOR SPECIES MIX	SEE DETAIL	AS SHOWN

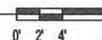
### NOTES:

1. INSTALL PLANTS AS SHOWN PER DETAIL AND SECTION
2. CONTRACTOR SHALL INSTALL LARGE AND SMALL CUTTINGS SPECIES IN RANDOM ORDER TO PROVIDE AN EVEN DISTRIBUTION OF PLANT SPECIES ALONG ENTIRE LENGTH OF PLANTING ZONE. TO ENSURE DIVERSITY CONTRACTOR SHALL INSTALL NO MORE THAN 3 SIMILAR SPECIES IN A ROW.



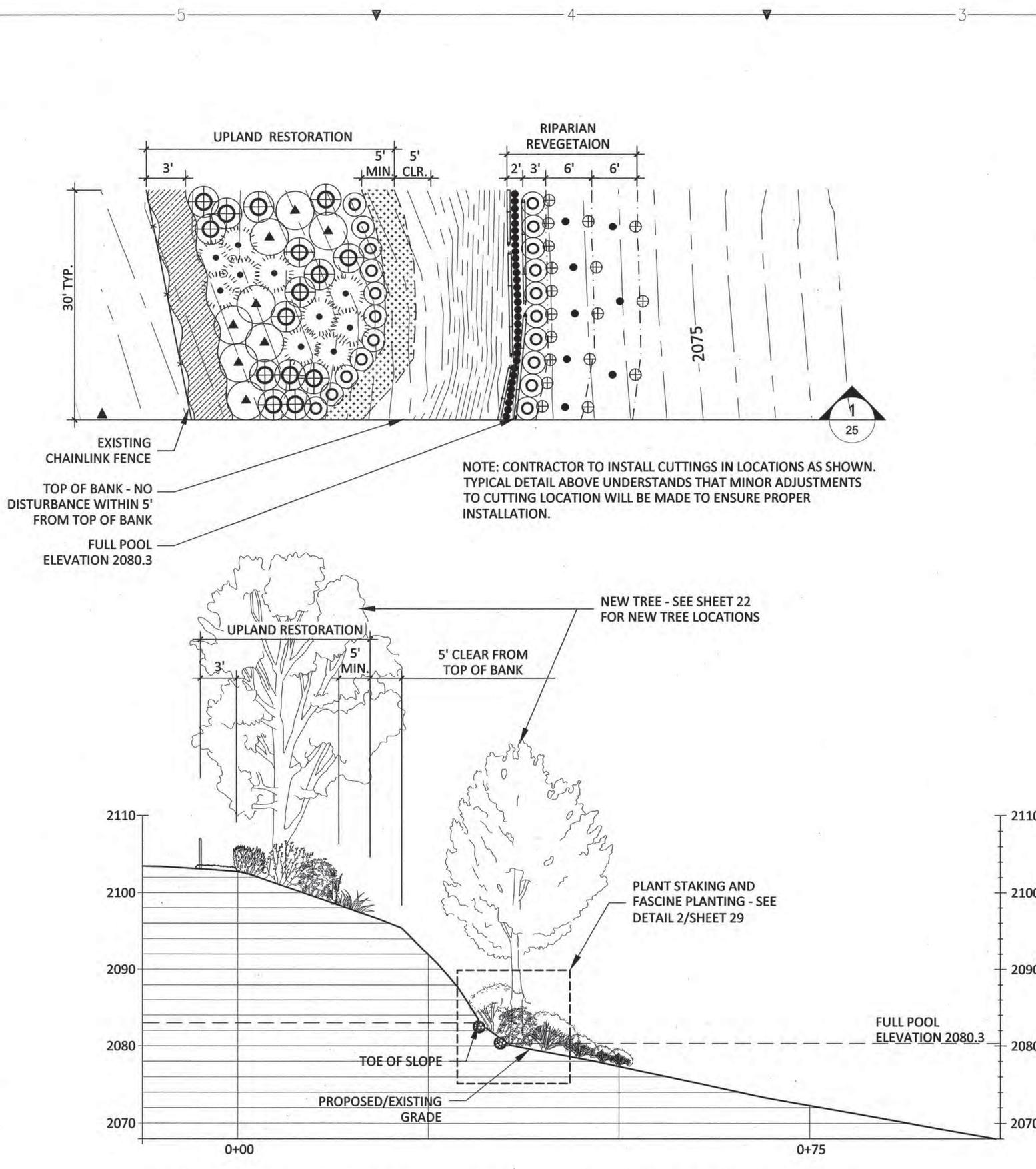
**1** TYPICAL PLANTING DETAIL - ZONE D (STA. 00+00 TO STA. 12+20)

PLAN AND SECTION



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IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: NONE	DATE: February 29, 2016
DS. . . . .	APPROVED 24 OF 32
DR. . . . .	
REV. CH. . . . .	Four-0-0 ..-ACAD



### PLANTING LEGEND

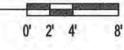
\*QUANTITY BASED ON 30' LINEAR FEET OF SHORELINE. ZONE C IS APPROX. 255' LONG.

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY. *
<b>UPLAND RESTORATION</b>				
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	1 GAL. CONT.	AS SHOWN	10
ROSA WOODSII	WOODS' ROSE	1 GAL. CONT.	AS SHOWN	10
HOLODISCUS DISCOLOR	OCEAN SPRAY	1 GAL. CONT.	AS SHOWN	8
SYMPHORICARPUS ALBUS	SNOWBERRY	1 GAL. CONT.	AS SHOWN	15
MULCH AS SPECIFIED			AS SPECIFIED	
RESTORATION SEEDING			AS SPECIFIED 1,275 SF	
<b>RIPARIAN REVEGETATION</b>				
ROSA WOODSII	WOODS' ROSE	1 GAL. CONT.	AS SHOWN	10
LARGE CUTTINGS	SEE MASTER PLANT LIST FOR SPECIES MIX	6' MIN., 1-1/2" - 3-1/2" DIA.	AS SHOWN	18
SMALL CUTTINGS	SEE MASTER PLANT LIST FOR SPECIES MIX	18" MIN., 3/4" DIA.	AS SHOWN	40
FASCINE	SEE DETAIL 3/SHEET 29	SEE DETAIL 3/SHEET 29	AS SHOWN	4

### NOTES:

- INSTALL PLANTS AS SHOWN PER DETAIL AND SECTION
- CONTRACTOR SHALL INSTALL LARGE AND SMALL CUTTINGS SPECIES IN RANDOM ORDER TO PROVIDE AN EVEN DISTRIBUTION OF PLANT SPECIES ALONG ENTIRE LENGTH OF PLANTING ZONE. TO ENSURE DIVERSITY CONTRACTOR SHALL INSTALL NO MORE THAN 3 SIMILAR SPECIES IN A ROW.

**1 TYPICAL PLANTING DETAIL - ZONE C (STA. 12+20 TO STA. 14+75)**  
 PLAN AND SECTION



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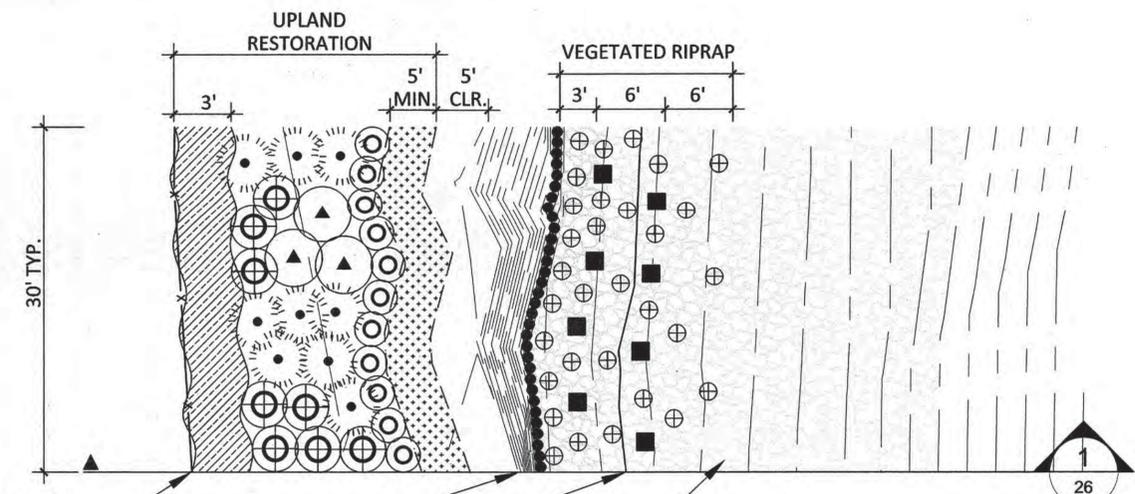
Farewell Bend State Park  
 Bank Stabilization Project

IDAHO POWER COMPANY BOISE, IDAHO

SCALE: NONE DATE: February 29, 2016

APPROVED 25 OF 32

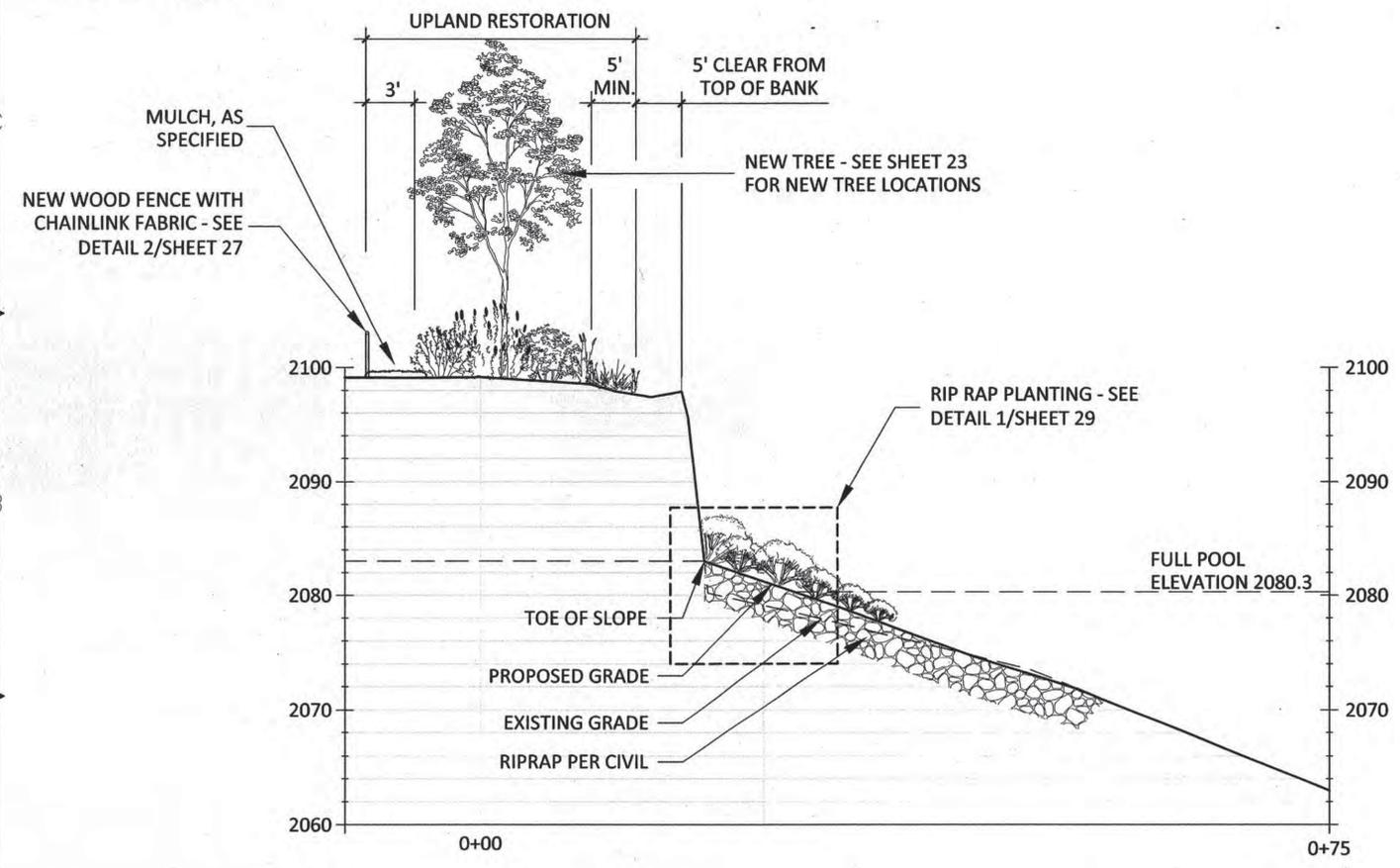
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NEW WOOD FENCE WITH CHAINLINK FABRIC - SEE DETAIL 2/SHEET 27  
 TOP OF BANK - NO DISTURBANCE WITHIN 5' FROM TOP OF BANK  
 FULL POOL ELEVATION 2080.3

RIPRAP PER CIVIL

NOTE: CONTRACTOR TO INSTALL CUTTINGS IN LOCATIONS AS SHOWN. TYPICAL DETAIL ABOVE UNDERSTANDS THAT MINOR ADJUSTMENTS TO CUTTING LOCATION WILL BE MADE TO ENSURE PROPER INSTALLATION IN RIPRAP.



1 TYPICAL PLANTING DETAIL - ZONE B (STA. 18+75 TO STA. 28+60)  
 PLAN AND SECTION



### PLANTING LEGEND

\*QUANTITY BASED ON 30' LINEAR FEET OF SHORELINE. ZONE B UPLAND RESTORATION IS APPROX. 800' LONG.  
 ZONE B VEGETATED RIP RAP IS APPROX. 930' LONG.

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY. *
<b>UPLAND RESTORATION</b>				
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	1 GAL. CONT.	AS SHOWN	9
ROSA WOODSII	WOODS' ROSE	1 GAL. CONT.	AS SHOWN	11
SPIREA DOUGLASII	DOUGLAS SPIREA	1 GAL. CONT.	AS SHOWN	3
SYMPHORICARPUS ALBUS	SNOWBERRY	1 GAL. CONT.	AS SHOWN	8
MULCH		AS SPECIFIED		
RESTORATION SEEDING		AS SPECIFIED		4,000 SF
<b>VEGETATED RIP RAP</b>				
⊕	LARGE CUTTINGS	SEE MASTER PLANT LIST FOR SPECIES MIX	6' MIN., 1-1/2" - 3-1/2" DIA.	AS SHOWN 31
●	SMALL CUTTINGS	SEE MASTER PLANT LIST FOR SPECIES MIX	18" MIN., 3/4" DIA.	AS SHOWN 31
■	FASCINE BAG	SEE MASTER PLANT LIST FOR SPECIES MIX	SEE DETAIL	AS SHOWN 8

### NOTES:

- INSTALL PLANTS AS SHOWN PER DETAIL AND SECTION
- CONTRACTOR SHALL INSTALL LARGE AND SMALL CUTTINGS SPECIES IN RANDOM ORDER TO PROVIDE AN EVEN DISTRIBUTION OF PLANT SPECIES ALONG ENTIRE LENGTH OF PLANTING ZONE. TO ENSURE DIVERSITY CONTRACTOR SHALL INSTALL NO MORE THAN 3 SIMILAR SPECIES IN A ROW.



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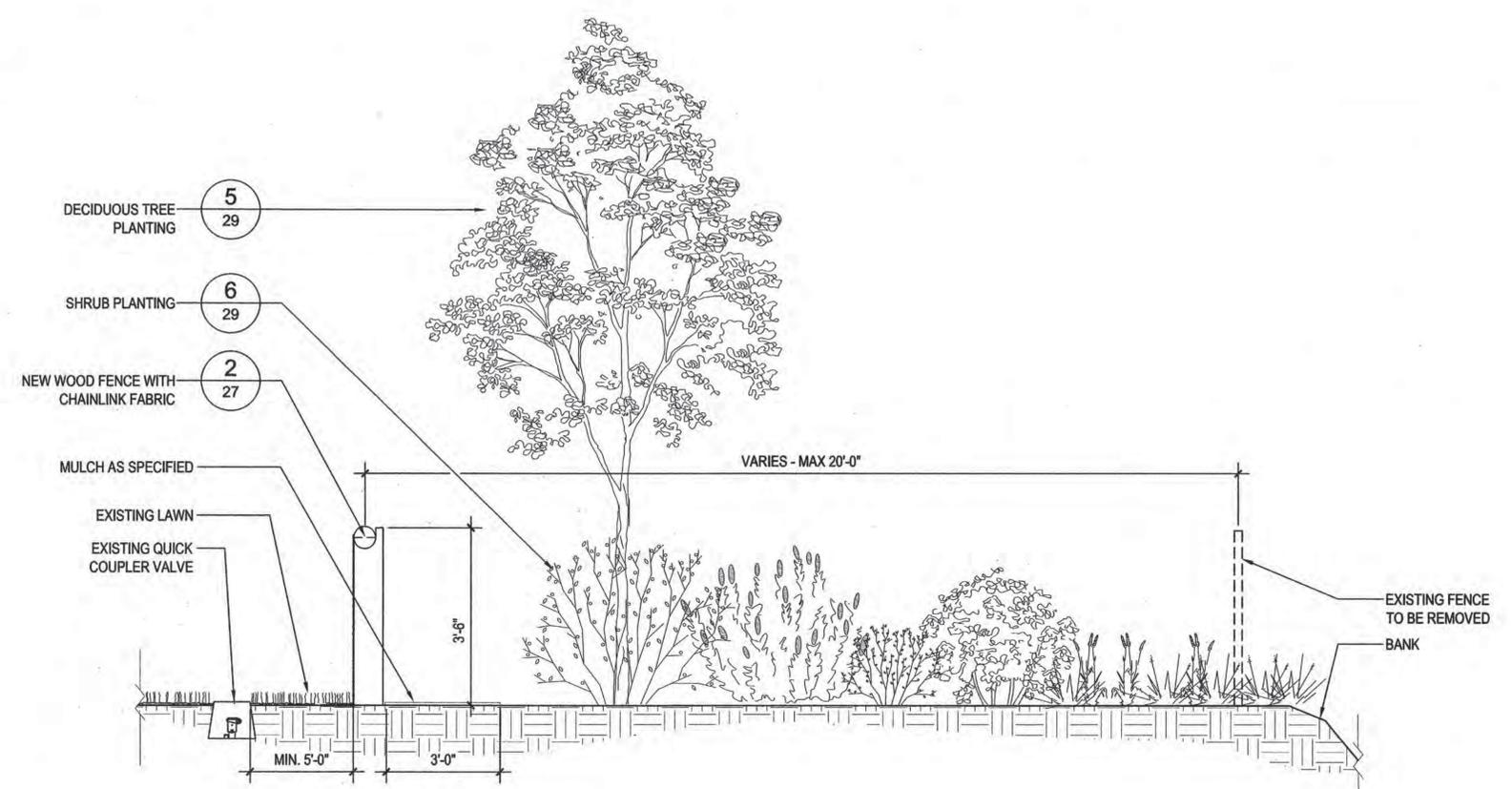
IDAHO POWER COMPANY BOISE, IDAHO

SCALE: NONE DATE: February 29, 2016

DR. APPROVED 26 OF 32

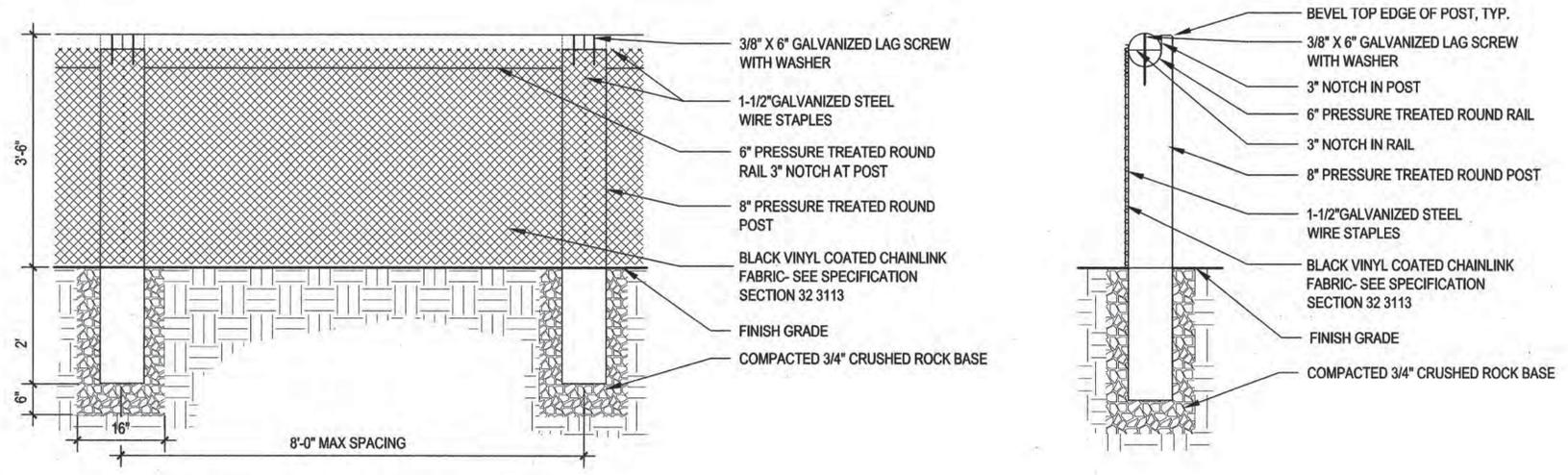
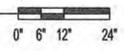
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VAULT NO. D-1



**1 CHAINLINK FENCE LOCATION DETAIL**

ELEVATION



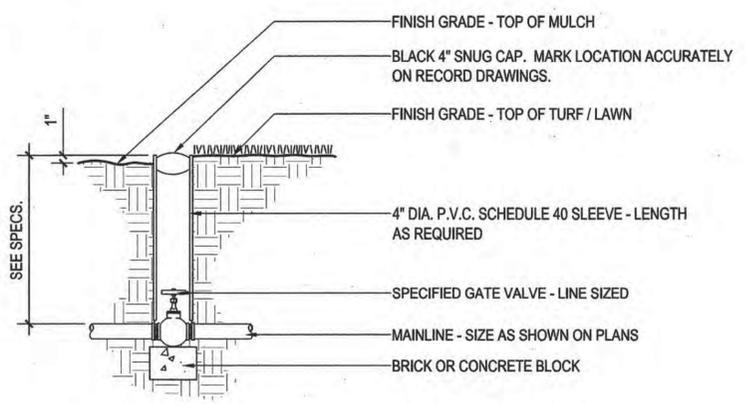
**2 WOOD FENCE WITH CHAINLINK FABRIC**

SECTION ELEVATION

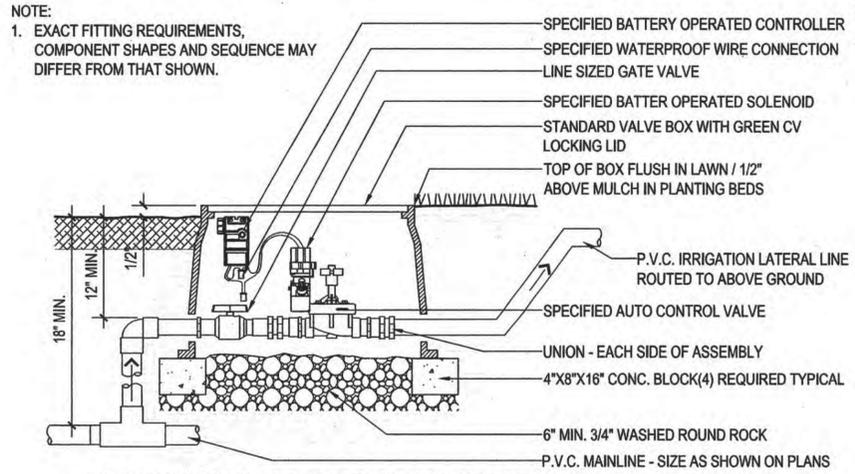


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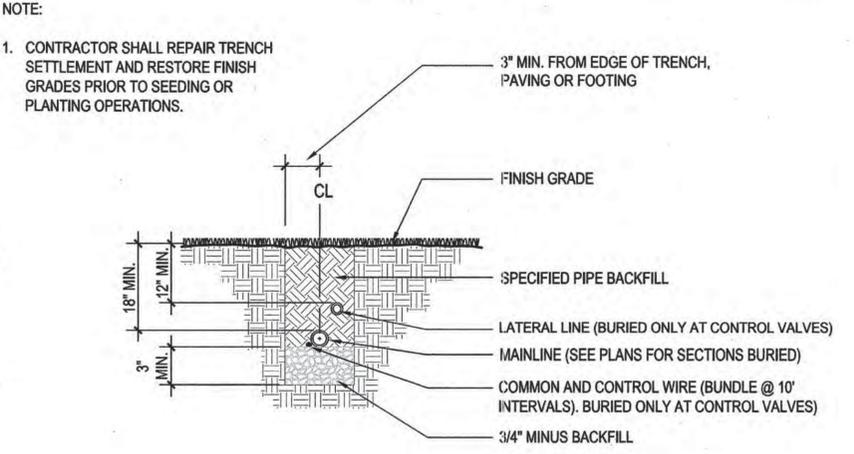
Farewell Bend State Park Bank Stabilization Project		IDAHO POWER COMPANY BOISE, IDAHO	
		SCALE: 1"=40'	DATE: February 29, 2016
DS. . .	APPROVED	27 OF 32	
DR. . .	[Signature]	Four-0-0 ..-ACAD	
REV. . .	CH. . .	1	1



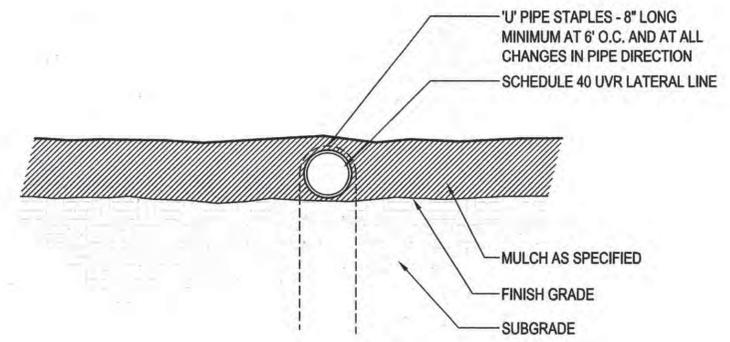
**1 GATE VALVE ASSEMBLY**  
SECTION NOT TO SCALE



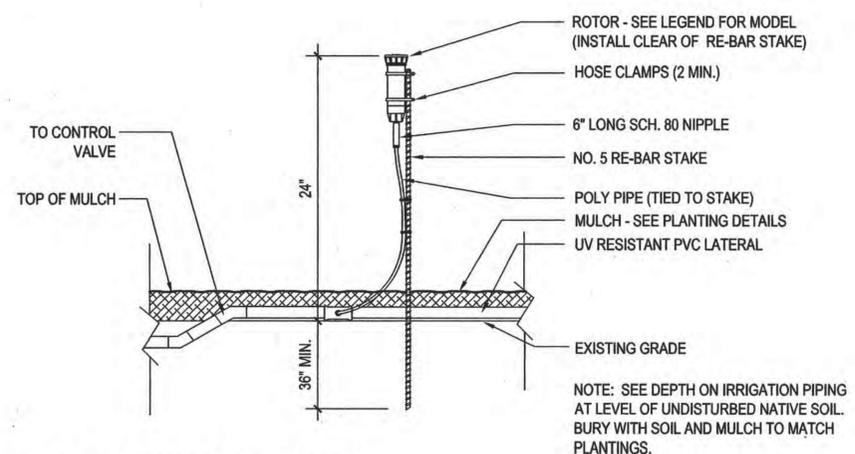
**2 BATTERY OPERATED CONTROLLER / AUTOMATIC CONTROL VALVE ASSEMBLY**  
SECTION NOT TO SCALE



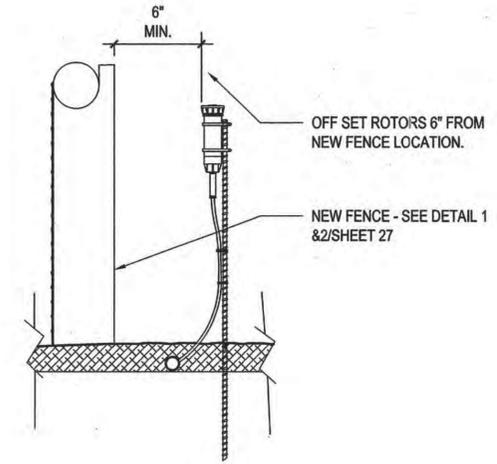
**3 TRENCHING IN PLANTING AREA**  
SECTION NOT TO SCALE



**4 ABOVE GROUND PIPE (SURFACE)**  
SECTION NOT TO SCALE



**5 TEMPORARY IRRIGATION**  
SECTION NOT TO SCALE

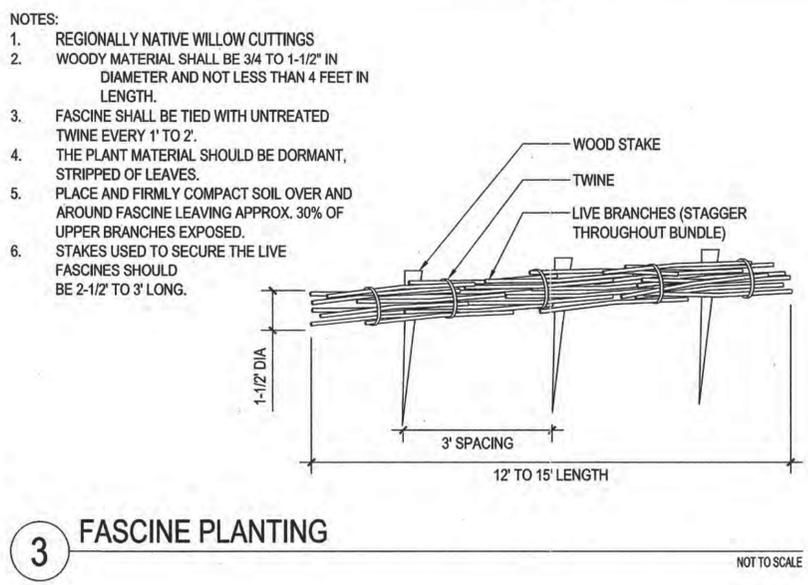
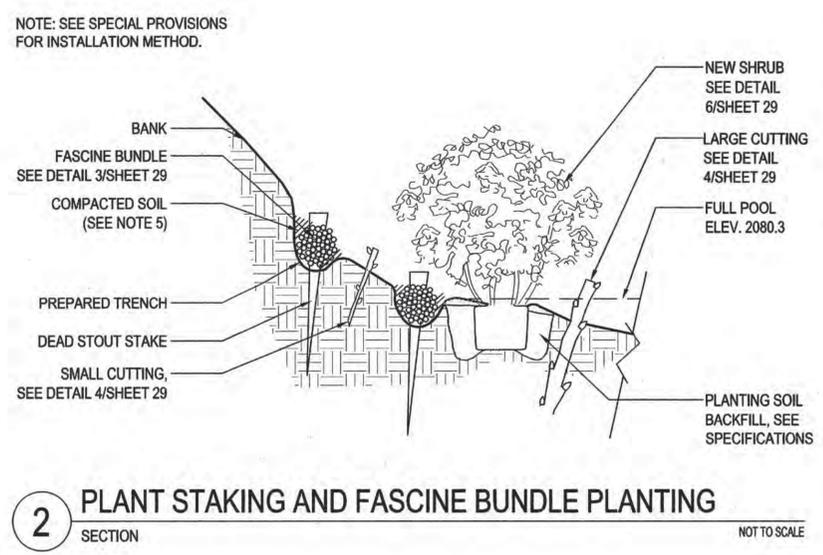
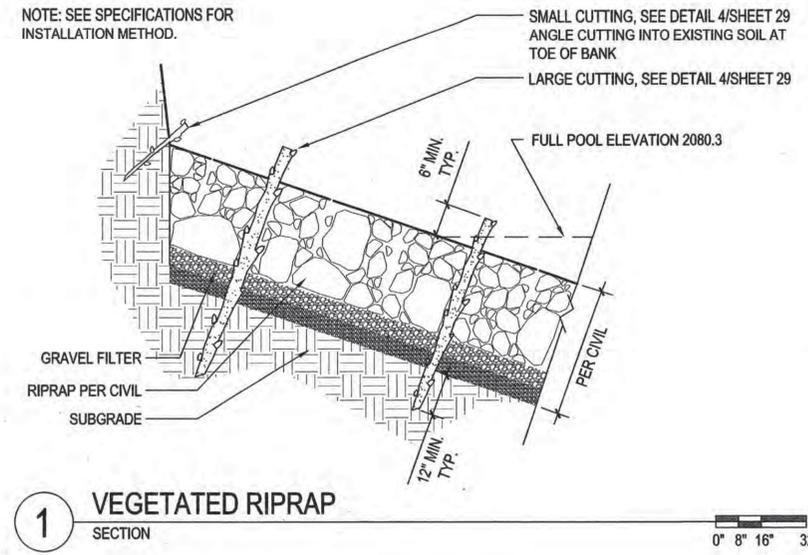


**6 OFF SET ROTORS**  
SECTION NOT TO SCALE



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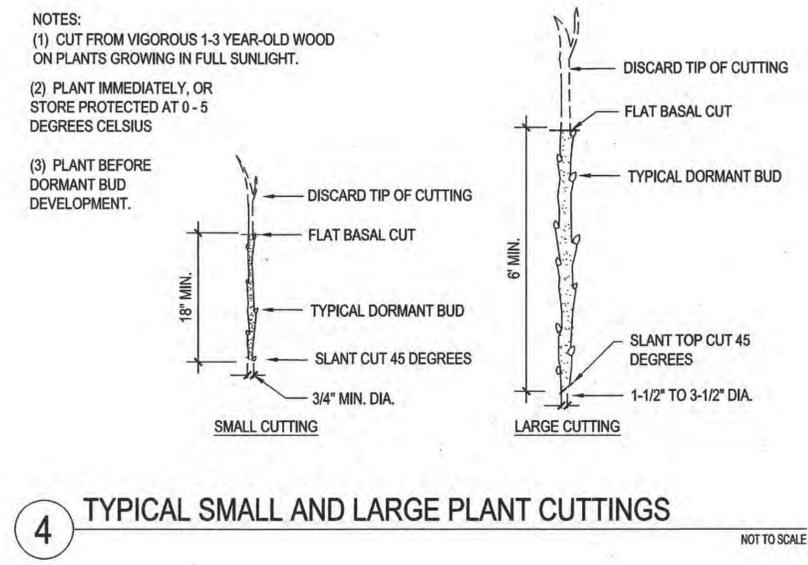


- NOTES:
1. REGIONALLY NATIVE WILLOW CUTTINGS
  2. WOODY MATERIAL SHALL BE 3/4 TO 1-1/2" IN DIAMETER AND NOT LESS THAN 4 FEET IN LENGTH.
  3. FASCINE SHALL BE TIED WITH UNTREATED TWINE EVERY 1' TO 2'.
  4. THE PLANT MATERIAL SHOULD BE DORMANT, STRIPPED OF LEAVES.
  5. PLACE AND FIRMLY COMPACT SOIL OVER AND AROUND FASCINE LEAVING APPROX. 30% OF UPPER BRANCHES EXPOSED.
  6. STAKES USED TO SECURE THE LIVE FASCINES SHOULD BE 2-1/2' TO 3' LONG.

1 VEGETATED RIPRAP SECTION 0" 8" 16" 32" NOT TO SCALE

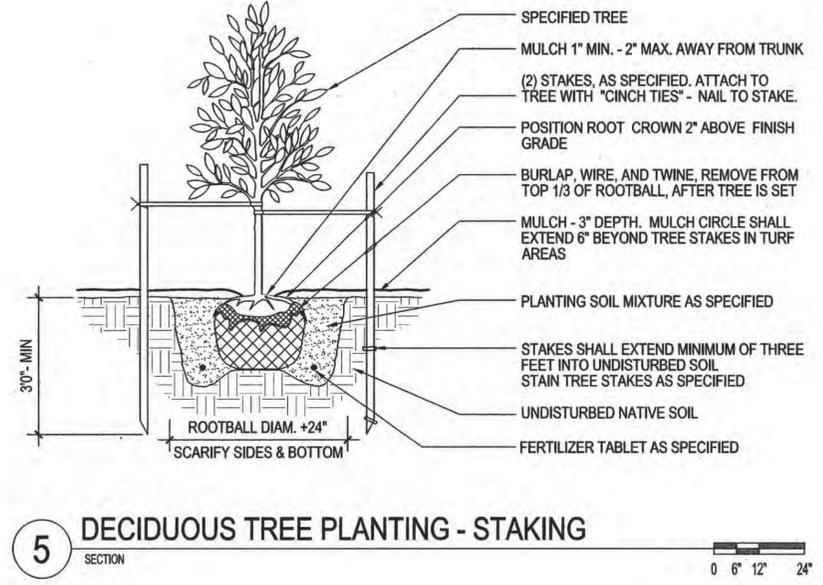
2 PLANT STAKING AND FASCINE BUNDLE PLANTING SECTION NOT TO SCALE

3 FASCINE BUNDLE PLANTING NOT TO SCALE

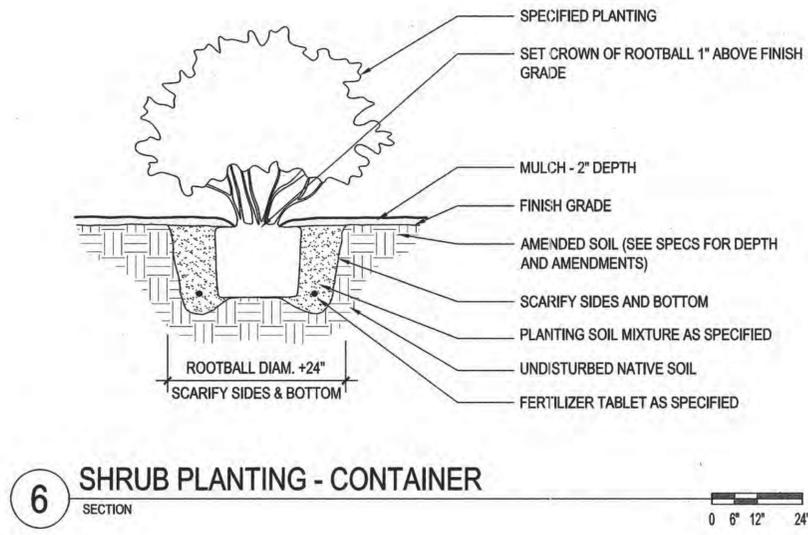


- NOTES:
- (1) CUT FROM VIGOROUS 1-3 YEAR-OLD WOOD ON PLANTS GROWING IN FULL SUNLIGHT.
  - (2) PLANT IMMEDIATELY, OR STORE PROTECTED AT 0 - 5 DEGREES CELSIUS
  - (3) PLANT BEFORE DORMANT BUD DEVELOPMENT.

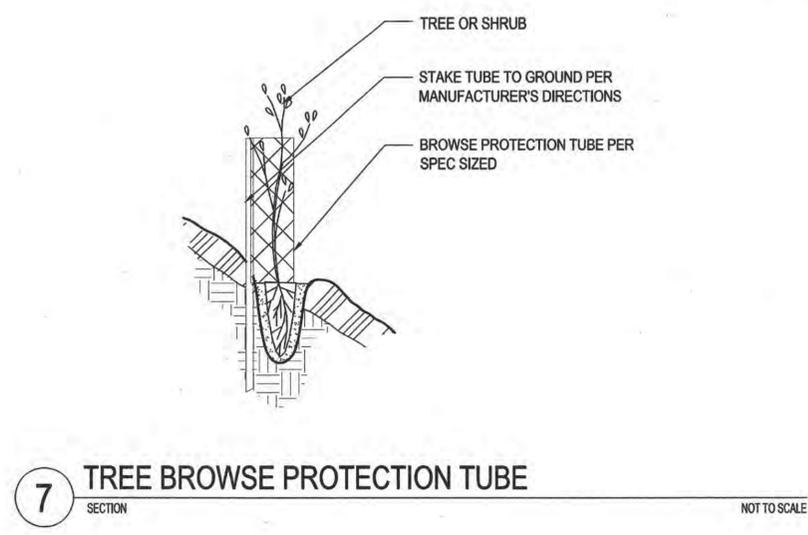
4 TYPICAL SMALL AND LARGE PLANT CUTTINGS NOT TO SCALE



5 DECIDUOUS TREE PLANTING - STAKING 0" 6" 12" 24" NOT TO SCALE



6 SHRUB PLANTING - CONTAINER 0" 6" 12" 24" NOT TO SCALE

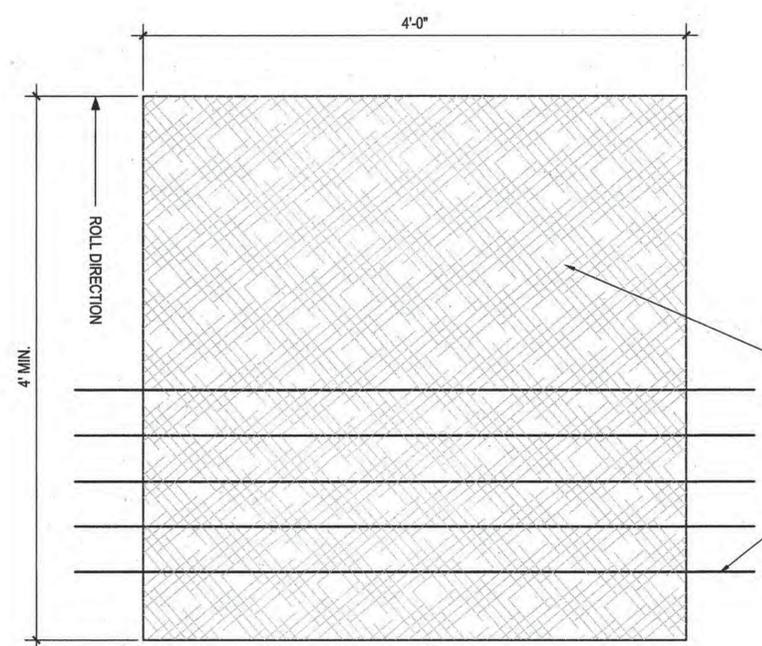


7 TREE BROWSE PROTECTION TUBE SECTION NOT TO SCALE



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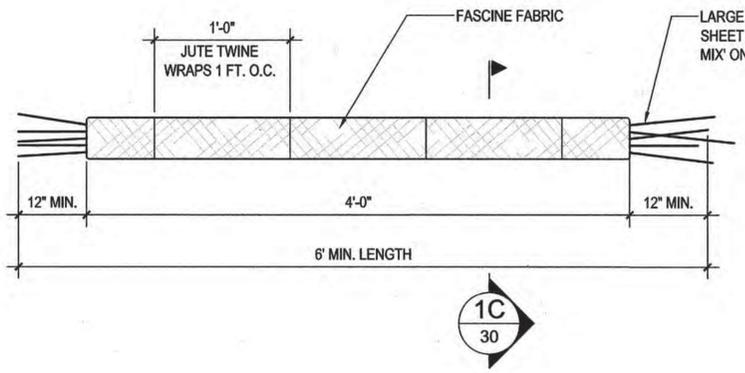
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IDAHO POWER COMPANY BOISE, IDAHO	
SCALE: NONE	DATE: February 29, 2016
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DR. / CH.	Four-0-0 ..-ACAD



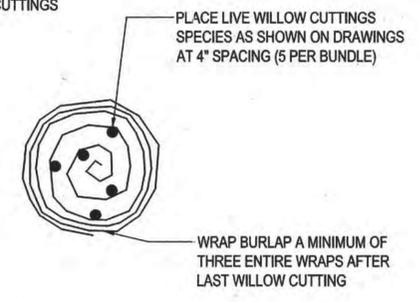
A - PLAN VIEW

FASCINE FABRIC. LEAVE 2 FT. MIN. OF FASCINE FABRIC FREE OF WILLOWS FOR A MIN. OF THREE WRAPS AFTER ROLLED UP

PLACE LIVE WILLOW CUTTINGS SPECIES AS SHOWN ON DRAWINGS AT 4" SPACING (5 PER BUNDLE)



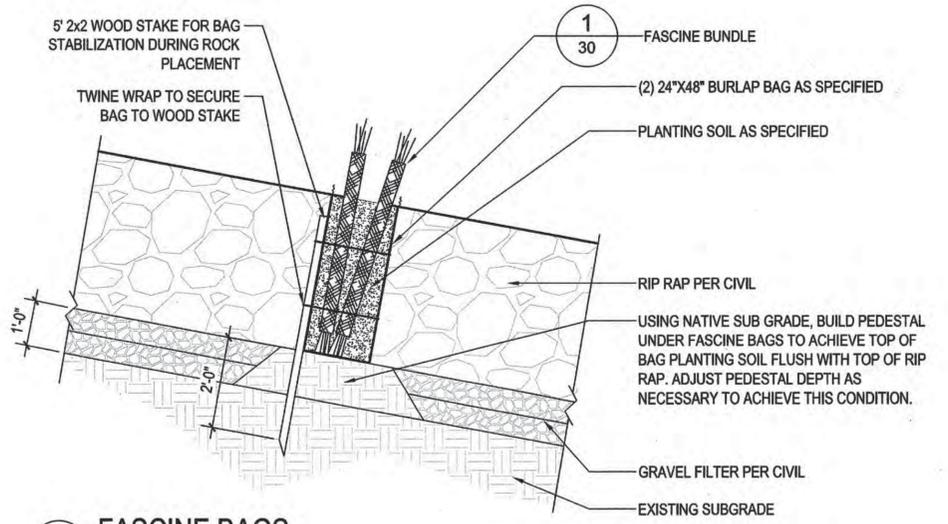
B - ELEVATION VIEW



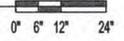
C - SECTION

**1 FASCINE BAG BUNDLE**

NOT TO SCALE



**2 FASCINE BAGS SECTION**



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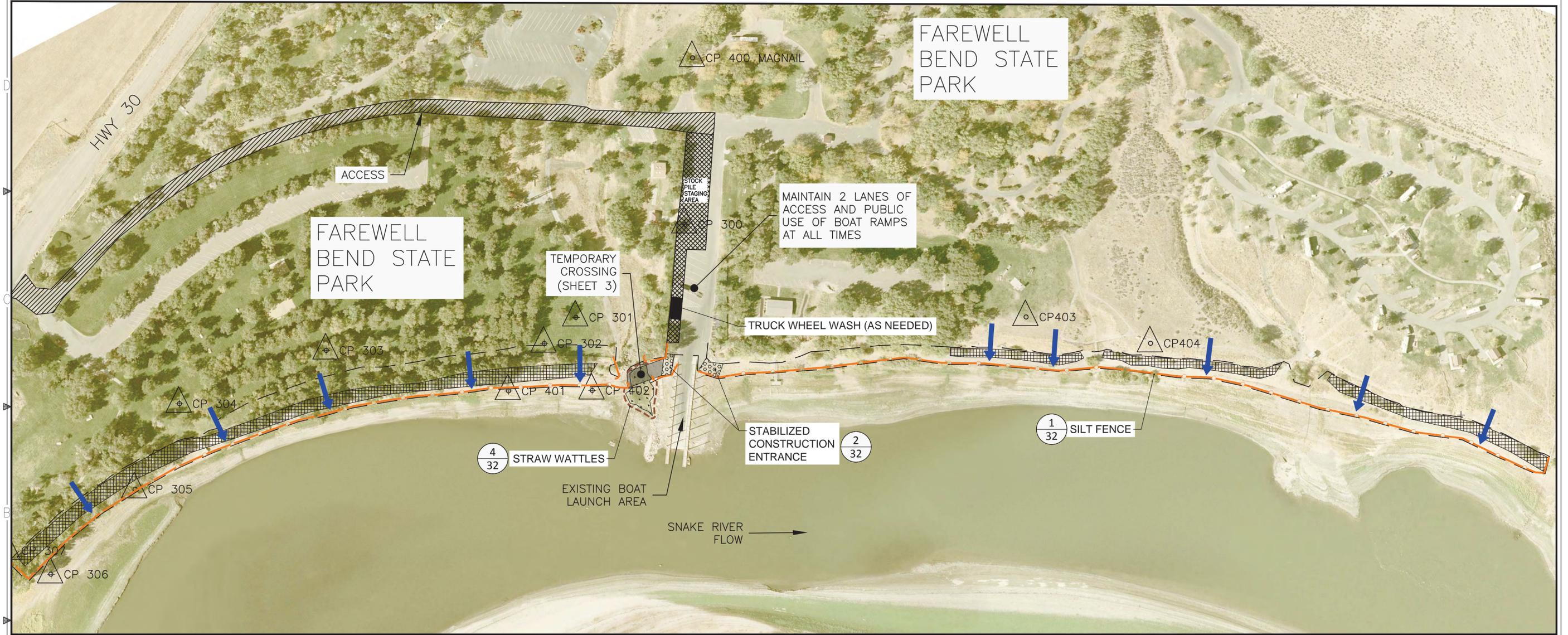
SURVEY CONTROL POINTS			
Pt.	Easting	Northing	Elev
CP 300	1,189,187.62	1,173,127.44	2102.77
CP 301	1,189,165.15	1,172,847.41	2100.71
CP 302	1,189,157.25	1,172,767.32	2101.32
CP 303	1,188,864.32	1,172,455.12	2100.70
CP 304	1,188,734.30	1,172,177.70	2092.94
CP 305	1,188,790.95	1,171,997.67	2073.02
CP 306	1,188,791.91	1,171,763.23	2069.98
CP 307	1,188,700.34	1,171,736.84	2085.00
CP 401	1,189,173.38	1,172,651.98	2068.93
CP 402	1,189,288.72	1,172,769.07	2068.73
CP403	1,189,789.27	1,173,472.66	2105.56

**LEGEND**

- LIMITS OF DISTURBANCE
- ▨ ACCESS
- ▨ STAGING/STOCKPILE (3/32)
- ▨ VEGETATED RIPRAP
- ➡ STORMWATER FLOW
- SILT FENCE (1/32)
- △ CP
- ▨ TEMPORARY CROSSING
- ▨ STABILIZED CONSTRUCTION ENTRANCE (2/32)
- - - STRAW WATTLES (4/32)



SITE MAP KEY



OCTOBER 2006 AERIAL IMAGE PROVIDED BY IPC,

**EROSION AND SEDIMENT CONTROL PLAN – SITE MAP**

REFER TO SHEET 32 FOR GENERAL NOTES AND DETAILS

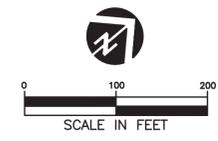
**NOTES:**

- PUBLIC ACCESS TO BOAT RAMP SHALL BE MAINTAINED AT ALL TIMES.
- SILT FENCE ALONG THE DOWNHILL LIMITS OF DISTURBANCE OF THE BOAT RAMP SHALL BE BACKED BY A BARRIER CONSTRUCTED OF CONTINUOUS ECOLOGY BLOCKS, JERSEY BARRIERS, CLEAN GRAVEL-COBBLE FILLED BULK SACS, OR OTHER APPROVED METHOD.

**NOTE:**  
 TOPOGRAPHIC INFORMATION WAS PROVIDED BY: 1) IPC, 2) HANLEY ENGINEERING, INC. AND 3) INTER-FLUVE INC. HORIZONTAL SURVEY DATUM IS UTM NAD83/BLM 14N (ftUS). ELEVATIONS ARE VERTICAL DATUM: NAVD88.



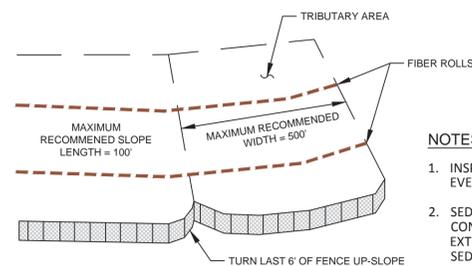
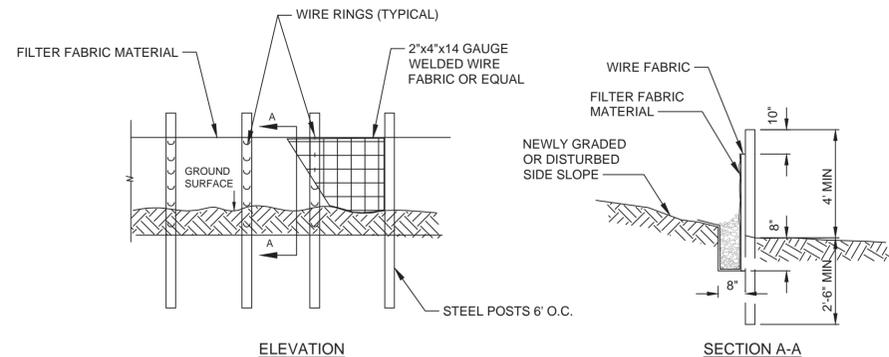
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SCALE: AS NOTED	DATE: FEB 16, 2016
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REV. CH.	Four-0-0 ..-ACAD

**ESCP BEST MANAGEMENT PRACTICES (BMPs):**

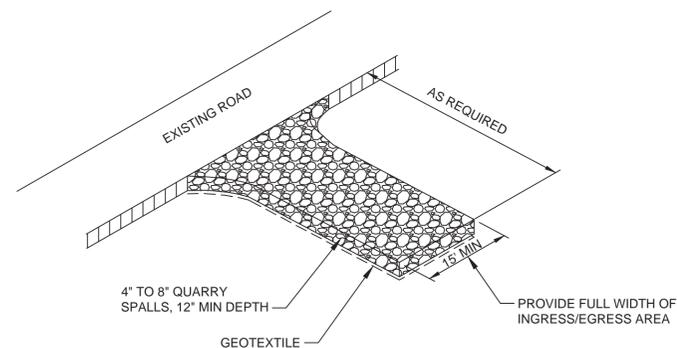
1. PRESERVE EXISTING VEGETATION TO THE EXTENT PRACTICAL. AVOID COMPACTION AND GRADING NEAR TREES AND INSTALL ORANGE PLASTIC FENCING AROUND AREAS WHICH ARE NOT TO BE DISTURBED.
2. REESTABLISH VEGETATIVE COVER OR INSTALL EROSION CONTROL MATS IN ALL AREAS OF DISTURBANCE INCLUDING AREAS NOT DESIGNATED FOR BANK STABILIZATION.
3. ALL IMPERVIOUS AREAS WITHIN THE PROJECT AREA SHALL REMAIN FREE OF CONSTRUCTION DEBRIS AND SEDIMENT TRACKED FROM ACTIVE WORK ZONE. SWEEPING SHALL BE DONE WEEKLY AND PRIOR TO KNOWN STORM EVENTS.
4. SILT FENCES SHALL BE INSTALLED ON SLOPE CONTOURS TO THE EXTENT PRACTICAL WITH TIEBACKS OR TURN UPS TO ALLOW FOR COMPARTIZING OF RUNOFF AND LIMIT FAILURES AT CRITICAL LOW POINTS. IMPLEMENT USE OF J-HOOKS FOR FENCES INSTALLED PARALLEL TO THE SLOPE. SEE DETAIL 1-31.
5. STABILIZED CONSTRUCTION ENTRANCE AND EXIT SHALL BE INSTALLED AT BOTH ENTRANCES NEAR THE BOAT DOCK TO LIMIT SEDIMENT TRACKING ON IMPERVIOUS PARKING LOTS AND ROADS. SEE DETAIL 2-31.
6. STOCKPILES SHALL BE COVERED AT ALL TIMES UNLESS IN ACTIVE USE. IMPERMEABLE BARRIER MUST BE PLACED UNDERNEATH STOCKPILE AND STRAW WATTLES OR COMPOST SOCKS MAY BE INSTALLED AROUND STOCKPILE TO LIMIT SEDIMENT WASH OUT WHILE UNCOVERED DURING ACTIVE LOADING. SEE DETAIL 3-31.
7. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS, WASH PADS, OR INCREASED SWEEPING FREQUENCY MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
8. DUE TO THE PROXIMITY OF SURFACE WATER, ADDITIONAL ESCP MEASURES ARE REQUIRED AT CRITICAL POINTS. LOW POINTS ALONG SILT FENCE SHOULD BE REINFORCED WITH HAY BALES TO LIMIT FAILURE. SLOPES GREATER THAN 4:1, ADDITIONAL STRAW WATTLES SHALL BE INSTALLED ON 10 FOOT INTERVALS FROM SILT FENCE UNTIL THE EXTENT PRACTICAL WITH ACTIVE WORK AREA. SEE DETAIL 4-31.
9. WETLAND AREAS SHALL BE SURROUNDED BY FIBER ROLLS TO THE EXTENT PRACTICAL. SILT FENCE SHALL BE INSTALLED WITH J-HOOKS AROUND THE TEMPORARY CROSSING AND WETLAND AREA TO LIMIT RUNOFF DIRECTLY ENTERING THE WETLAND.
10. ALL BMPs SHALL BE INSTALLED ACCORDING TO THE DEQ CONSTRUCTION BEST MANAGEMENT PRACTICES MANUAL.



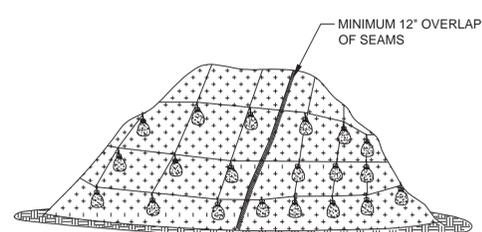
**NOTES**

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. SEDIMENT FENCE SHALL BE INSTALLED ON SLOPE CONTOURS AND 1-2 FEET OFF TOE OF SLOPE TO EXTENT PRACTICAL TO MAXIMIZE PONDING AND SEDIMENT ACCUMULATION EFFICIENCY.

**1 SILT FENCE DETAIL**  
NO SCALE



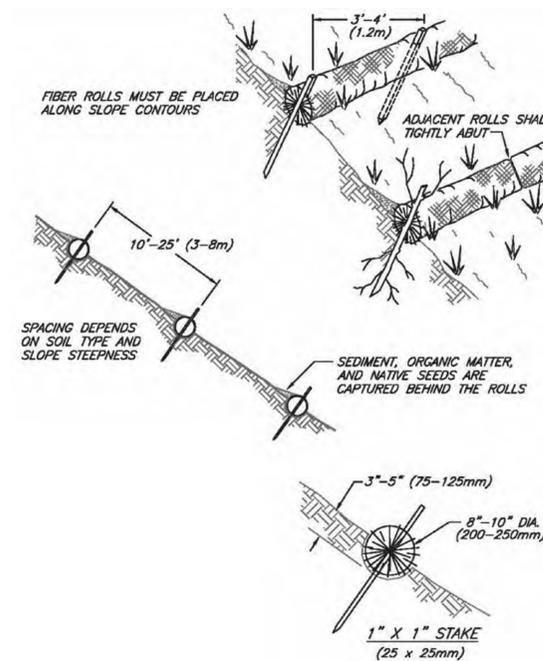
**2 STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
NO SCALE



**NOTES**

1. STOCKPILE SOIL WILL BE COVERED AND SECURED FROM WIND, RAIN, AND OTHER DISTURBANCES AT ALL TIMES EXCEPT DURING ACTIVE SOIL LOADING AND UNLOADING.
2. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED, WITH SEAMS SECURED WITH CONTINUOUS ROWS OF SANDBAGS.
3. IMPERMEABLE BARRIER REQUIRED AT TOE OF STOCKPILE.
4. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.
5. NO STOCKPILING OF MATERIALS ALLOWED IN RIGHT-OF-WAY.

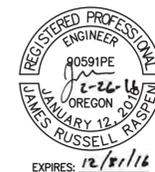
**3 STOCKPILE COVER**  
NO SCALE



**4 STRAW WATTLES DETAIL**  
NO SCALE

**ESCP GENERAL NOTES:**

1. THE IMPLEMENTATION OF THESE FACILITIES DEFINED IN THE ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESCP FACILITIES IS THE RESPONSIBILITY OF THE ESCP CERTIFIED SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE ESCP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY OR ACTIVITY IN WHICH LAND IS DISTURBED SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS IS MINIMIZED. ADDITIONAL ESCP MEASURES MAY BE IMPLEMENTED DURING CONSTRUCTION AS NEEDED.
3. THE ESCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, RELOCATION OF SILT FENCES, INSTALLATION OF STRAW WATTLES FOR SLOPE PROTECTION, TEMPORARY EROSION CONTROL MATS, ADDITIONAL PERIMETER PROTECTION ETC.).
4. THE ESCP FACILITIES SHALL BE INSPECTED DAILY BY THE ESCP INSPECTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESCP FACILITIES.
5. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESCP COVER METHODS (E.G., SEEDING, MULCHING, ETC.).
6. ANY AREA NEEDING ESCP MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
7. THE ESCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
8. AT NO TIME SHALL SEDIMENT ACCUMULATE MORE THAN 1/3 OF THE ABOVE GROUND HEIGHT OF SILT FENCE BE ALLOWED. SEDIMENT SHALL BE REMOVED FREQUENTLY AND REPLACED EVERY SIX (6) MONTHS IF EXPOSED TO CLAYEY SOILS.
9. THE CONTRACTOR SHALL MAINTAIN A FULLY STOCKED SPILL KIT ON SITE AT ALL TIMES.



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<p>IDAHO POWER COMPANY BOISE, IDAHO</p>	
SCALE: AS NOTED	DATE: FEB 16, 2016
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DR. . . . .	32 OF 32
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**EROSION AND SEDIMENT CONTROL PLAN – DETAILS**