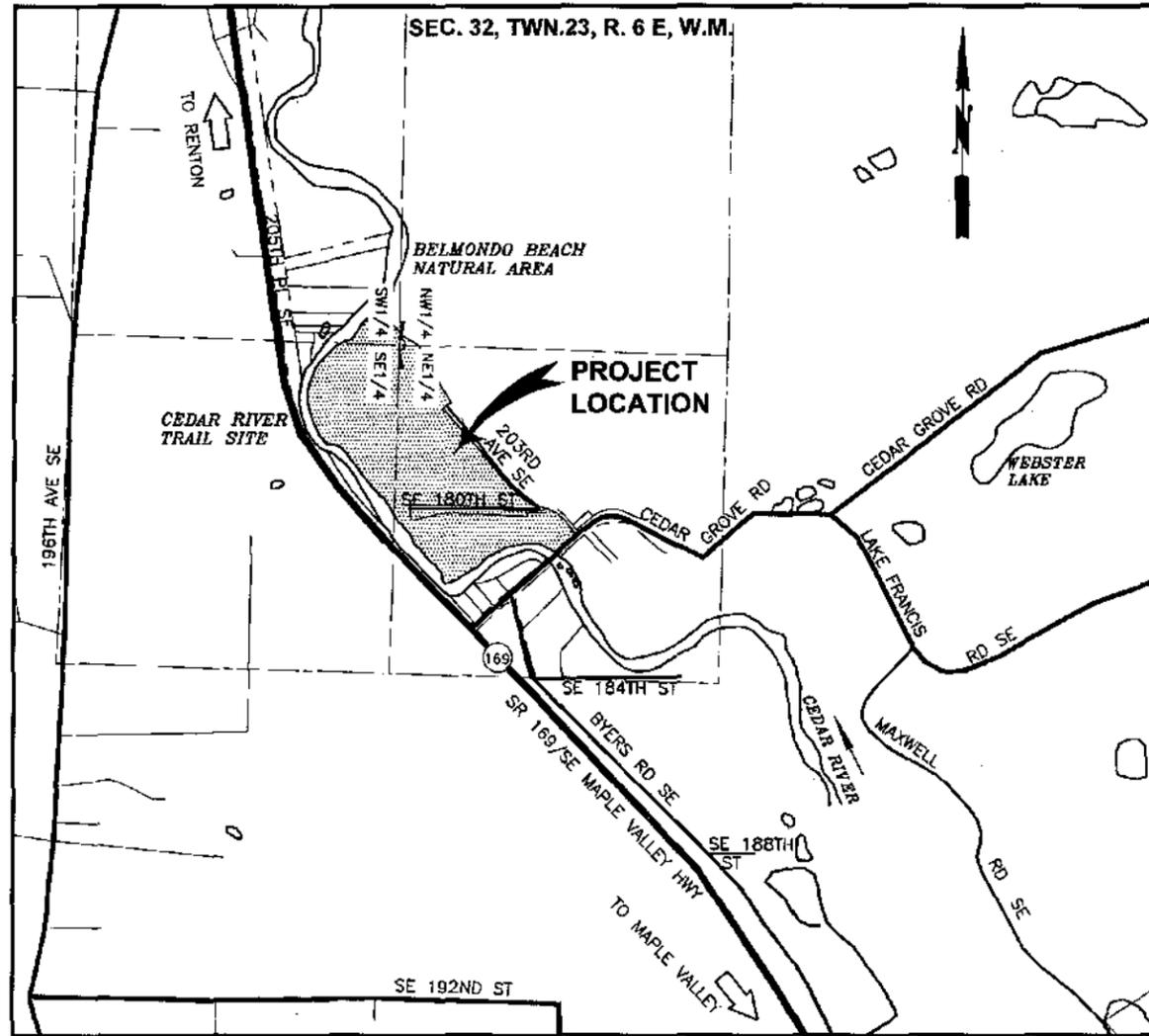
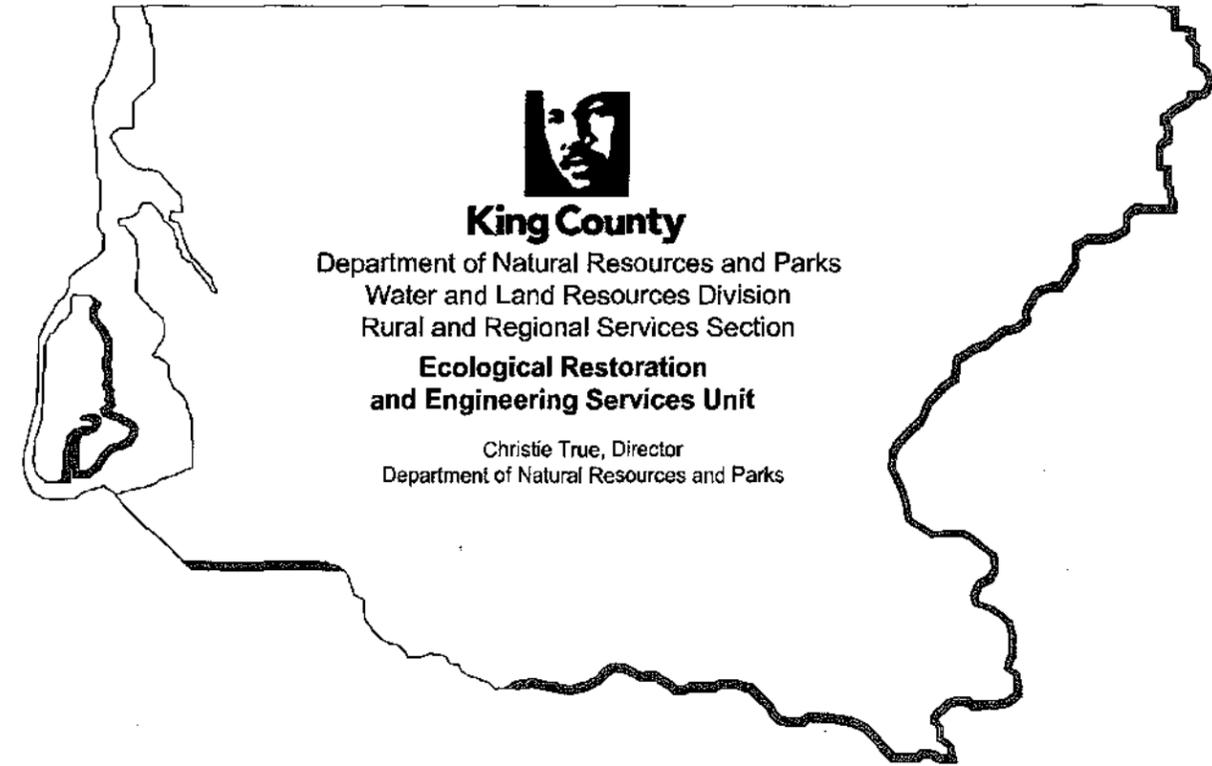


VICINITY MAP



NOT TO SCALE



King County

Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section

**Ecological Restoration
and Engineering Services Unit**

Christie True, Director
Department of Natural Resources and Parks

**RAINBOW BEND LEVEE REMOVAL
AND FLOODPLAIN RECONNECTION
AT INTERSECTION OF CEDAR GROVE RD. AND 203RD AVE SE**



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:	SURVEYED: K.C. LIDAR 03-2010	SURVEY BASE MAP: K.C. LIDAR 03-2010	CHECKED:	NUM.	REVISION	BY	DATE	APPROVED: WILL R. MANSFIELD, P.E.	05/2012	FUNDING SOURCE No.	101349	King County Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit Christie True, Director	RAINBOW BEND LEVEE REMOVAL AND FLOODPLAIN RECONNECTION VICINITY MAP AND SHEET INDEX	SHEET G1 OF 15 SHEETS
				NUM.	RECORD CHANGES APPROVED	BY	DATE	PROJECT MANAGER: JON HANSEN	05/2012	PROJECT No.	1044405			
				30% DISTRIBUTION SET 5/14/2012				DESIGNED: DAN EASTMAN	05/2012	CONTRACT No.	TBD			
								CAD DESIGN: L. TRAXINGER	05/2012					
														2006-27

DRAWING INDEX

GENERAL (G)

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G2	SHEET INDEX, CONSTRUCTION SEQUENCE LEGEND & ABBREVIATIONS

CIVIL (C)

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C2	DESIGN SITE PLAN
C3	LEVEE REMOVAL PLAN, PROFILE AND SECTIONS
C4	SIDE CHANNEL-GRADING PLAN AND PROFILE STA. 0+00 TO 13+00
C5	SIDE CHANNEL-GRADING PLAN AND PROFILE STA. 13+00 TO 26+80
C6	CUTOFF CHANNEL - GRADING PLAN AND PROFILE
C7	CROSS SECTIONS AND DETAILS
C8	WOOD PLACEMENT PLAN
C9	WOOD PLACEMENT DETAILS
C10	WOOD PLACEMENT DETAILS

STORMWATER POLLUTION PREVENTION PLAN (SWPP)

SWPP1	STORMWATER POLLUTION PREVENTION NOTES
SWPP2	STORMWATER POLLUTION PREVENTION PLAN
SWPP3	STORMWATER POLLUTION PREVENTION DETAILS

PLACEHOLDER (LS)

LEGEND

EXISTING DESCRIPTION

	BUILDING LINE
	EDGE OF PAVEMENT (EAC)
	GRAVEL PATH
	CREEK/DITCH CENTERLINE
	WETLAND PERIMETER (DELINEATED BY BIOLOGIST)
	O.H.W.M. (ORDINARY HIGH WATER MARK)
	EXISTING TREE CANOPY
	CONTOUR (INTERVAL)
	CONTOUR (INDEX)
	PROPERTY LINE
	RIGHT-OF-WAY
	SECTION LINE
	SURVEY NAIL
	REBAR & CAP
	WATER WELL
	GROUND WATER MONITORING WELL
	PUMP
	GAUGE

SYMBOLS

	DETAIL NO.		SECTION NO.
	SHEET NO.		SHEET NO.
	MERIDIAN W.S.L.G.N.Z.		NAVDB8

SWPP

	HIGH VISIBILITY FENCE
	SILT FENCE
	CLEARING AND GRADING LIMITS
	ORDINARY HIGH WATER
	SPOILS AREA
	SEDIMENT TRAP
	CHECK DAM

DESCRIPTION

CONSTRUCTION SEQUENCE:

1. REMOVE AND HAUL AWAY PAVEMENT SECTION ALONG 203RD AVE SE AND SE 180TH ST.
2. ROUTE TEMPORARY ACCESS FROM THE EXISTING ROADWAY LOCATIONS (SE 203RD AVE SE AND SE 180TH ST) AS SHOWN ON TESC SHEET.
3. CLEAR WORK AREAS AND INSTALL TESC MEASURES AS SHOWN ON TESC SHEETS.
4. EXCAVATE AND HAUL AWAY MATERIAL FOR BACKWATER GRADING AREA. GRADE TO ELEVATION AS SHOWN IN SHEET C3, C4 AND C5.
5. EXCAVATE AND HAUL AWAY TRENCH FOR BURIED REVETMENT AT END OF 203RD AVE SE.
6. EXCAVATE AND HAUL AWAY MATERIAL FOR SIDE CHANNELS AND CUT OFF CHANNELS. LEAVE CHANNEL EXCAVATION FOR SIDE CHANNEL WHERE IT CROSSES THE ROADWAY SECTION ON SE 180TH ST FOR LATER- THE ROADWAY NEEDS TO REMAIN DURING CONSTRUCTION TO PROVIDE ACCESS. GRADE TO ELEVATION AS SHOWN IN SHEET C3, C4 AND C5.
7. EXCAVATE AND HAUL AWAY LEVEE MATERIAL FOR ACCESS BENCH WHERE NECESSARY. SCREEN AND REUSE RIP RAP AND GRAVEL FOR THE BURIED REVETMENTS AND BANK PROTECTION STRUCTURES. HAUL AWAY REMAINING LEVEE AND REVETMENT REMOVAL MATERIAL.
8. INSTALL WATER DIVERSION AND WATER MANAGEMENT MEASURES AS NEEDED FOR LEVEE/REVETMENT REMOVAL.
9. EXCAVATE AND HAUL AWAY LEVEE AND REVETMENT MATERIAL AS SHOWN IN SHEET C4. SCREEN AND REUSE RIP RAP AND GRAVEL FOR THE BURIED REVETMENTS AND BANK PROTECTION STRUCTURES ON. HAUL AWAY REMAINING LEVEE AND REVETMENT REMOVAL MATERIAL.
10. INSTALL BURIED REVETMENT STRUCTURE AT UPSTREAM END OF EXISTING LEVEE AS SHOWN IN SHEET C7. REUSE RIPRAP FROM LEVEE REMOVAL AS AVAILABLE. IMPORT REMAINING RIP RAP AS NEEDED.
11. REMOVE WATER DIVERSION AND WATER MANAGEMENT MEASURES.
12. INSTALL LEFT BANK REVETMENT UPDATE STRUCTURES AS SHOWN IN SHEET C7. REUSE RIPRAP FROM LEVEE REMOVAL AS AVAILABLE. IMPORT REMAINING RIP RAP AS NEEDED.
13. INSTALL BURIED REVETMENT STRUCTURE AT END OF 203RD AVE SE AS SHOWN IN SHEET C7. REUSE RIPRAP FROM LEVEE REMOVAL AS AVAILABLE. IMPORT REMAINING RIP RAP AS NEEDED.
14. INSTALL RIGHT BANK PROTECTION FILL ALONG 203RD AVE SE USING LOGS, RIP RAP AND GRAVEL AS SHOWN IN SHEET C7.
15. EXCAVATE AND HAUL AWAY REMAINING SIDE CHANNEL MATERIAL WHERE CHANNEL CROSSES SE 180TH ST.
16. REMOVE TESC MEASURES AND RESTORE DISTURBED AREAS TO EXISTING CONDITIONS TO THE EXTENT POSSIBLE.

CONSTRUCTION DESCRIPTION

	ORANGE SILT FENCE
	CENTERLINE
	CONTOUR (INTERVAL)
	CONTOUR (INDEX)
	CLEARING AND GRADING LIMIT
	TREE TOP WITH BRANCHES
	BURIED LOGS
	LANDSBURG WOOD (OWNER PROVIDED)
	LARGE FELLED TREE (ONSITE SALVAGE)
	LARGE DECIDUOUS WOOD
	SLASH
	BACKWATER WOOD CLUSTERS
	KEY LOGS
	ROOT WAD

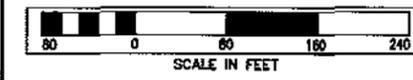
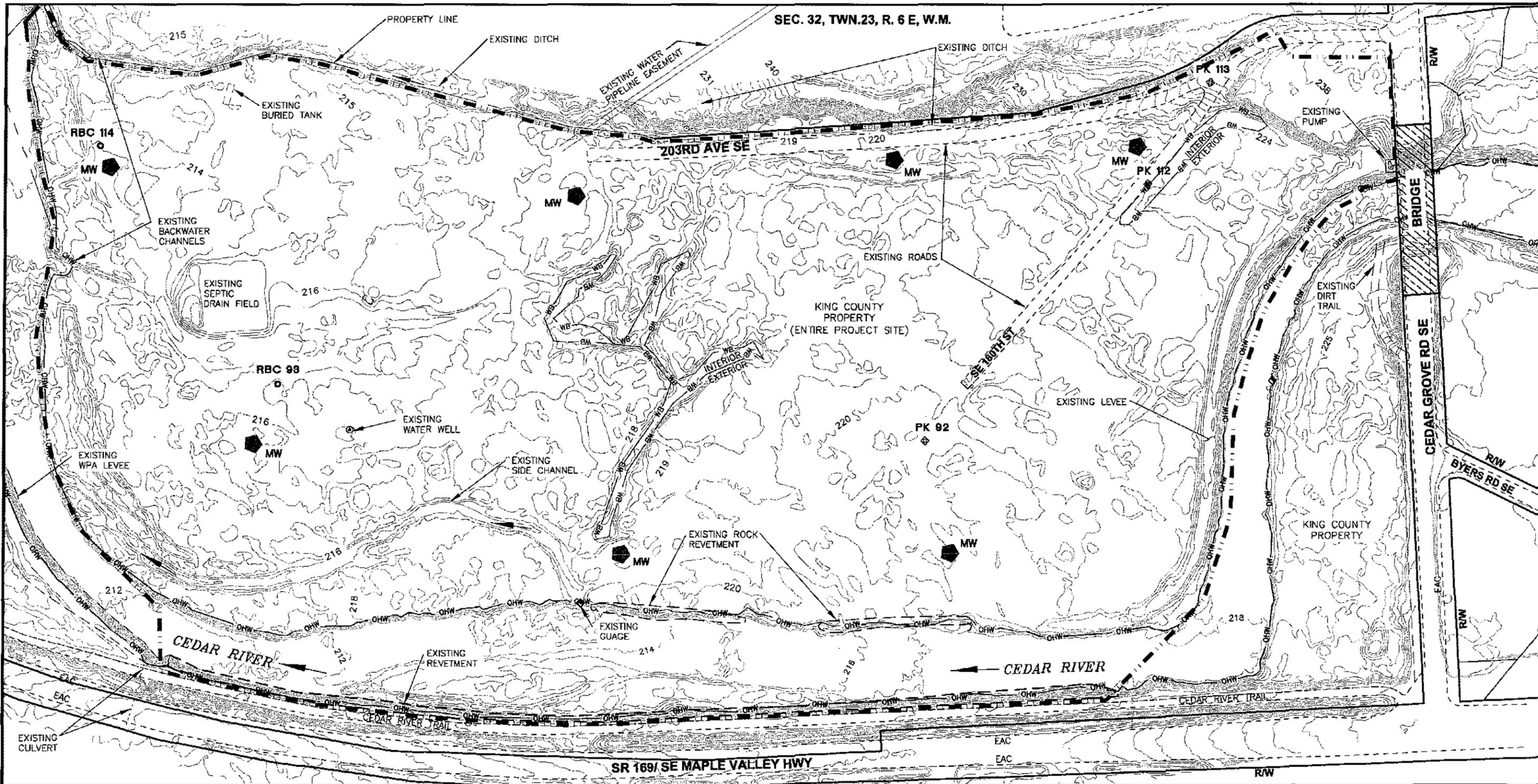
ABBREVIATIONS

ABAND	ABANDONED
APPROX.	APPROXIMATELY
AVE	AVENUE
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
BNSK	BERNSTEN NAIL
C	CENTERLINE
DIAM	DIAMETER
DWY	DRIVEWAY
EA	EACH
EAC	EDGE OF ASPHALT CONCRETE PAVEMENT
EL	ELEVATION
LWD	LARGE WOODY DEBRIS
MAX	MAXIMUM
MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DIVICES
NTS	NOT TO SCALE
P	PROPERTY LINE
R/W	RIGHT-OF-WAY
SPEC	SPECIAL
SPECS	SPECIFICATIONS
SR	STATE ROUTE
TYP	TYPICAL

CALL 2 WORKING DAYS
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:		NUM.	REVISION	BY	DATE	APPROVED: WILL R. MANSFIELD, P.E.	05/2012	FUNDING SOURCE No.	101349	<p>Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit Christie True, Director</p>	<p>RAINBOW BEND LEVEE REMOVAL AND FLOODPLAIN RECONNECTION</p> <p>SHEET INDEX, CONSTRUCTION SEQUENCE LEGEND AND ABBREVIATIONS</p>	<p>SHEET G2 OF 15 SHEETS 2006-27</p>
SURVEYED: K.C. LIDAR	03-2010	<p>30% DISTRIBUTION SET 5/14/2012</p>				PROJECT MANAGER: JON HANSEN	05/2012	PROJECT No.	1044405			
SURVEY BASE MAP: K.C. LIDAR	03-2010					DESIGNED: DAN EASTMAN	05/2012	CONTRACT No.	TBD			
CHECKED:		NUM.	RECORD CHANGES APPROVED	BY	DATE	TENZING THINLEY, WILL MANSFIELD	05/2012					
						CAD DESIGN: L. TRAXINGER	05/2012					



SURVEY CONTROL PTS	NORTHING	EASTING	ELEV.	DESC.
92	163243.87	1335017.88	220.54	AT-2 PK
93	164126.06	1334400.49	216.22	AT-3 RBC
112	163234.14	1335581.00	222.46	PK
113	163262.18	1335775.82	230.84	AT-1 PK
114	164605.70	1334512.26	213.02	AT-4 RBC

PROJECT LIMITS
 MONITORING WELLS

- NOTES:
1. BASIS OF BEARING IS THE WASHINGTON STATE PLANE COORDINATES SYSTEM, NORTH ZONE, N.A.D. 83/91, VERTICAL DATUM IS NGVD 88.
 2. CONTOURS SHOWN ARE BASED ON MARCH 2010 LIDAR SURVEY, AT 1 FT INTERVALS.
 3. EXISTING HOUSE, WELLS, UNDERGROUND TANKS, SEPTIC DRAINFIELD AND UTILITY POLES ON PROJECT SITE TO BE REMOVED UNDER A DIFFERENT PERMIT SET. THIS WILL BE DONE PRIOR TO THE PERMIT APPLICATION FOR THIS PROJECT

CALL 2 WORKING DAYS BEFORE YOU DIG
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

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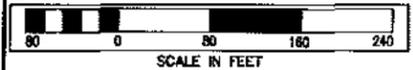
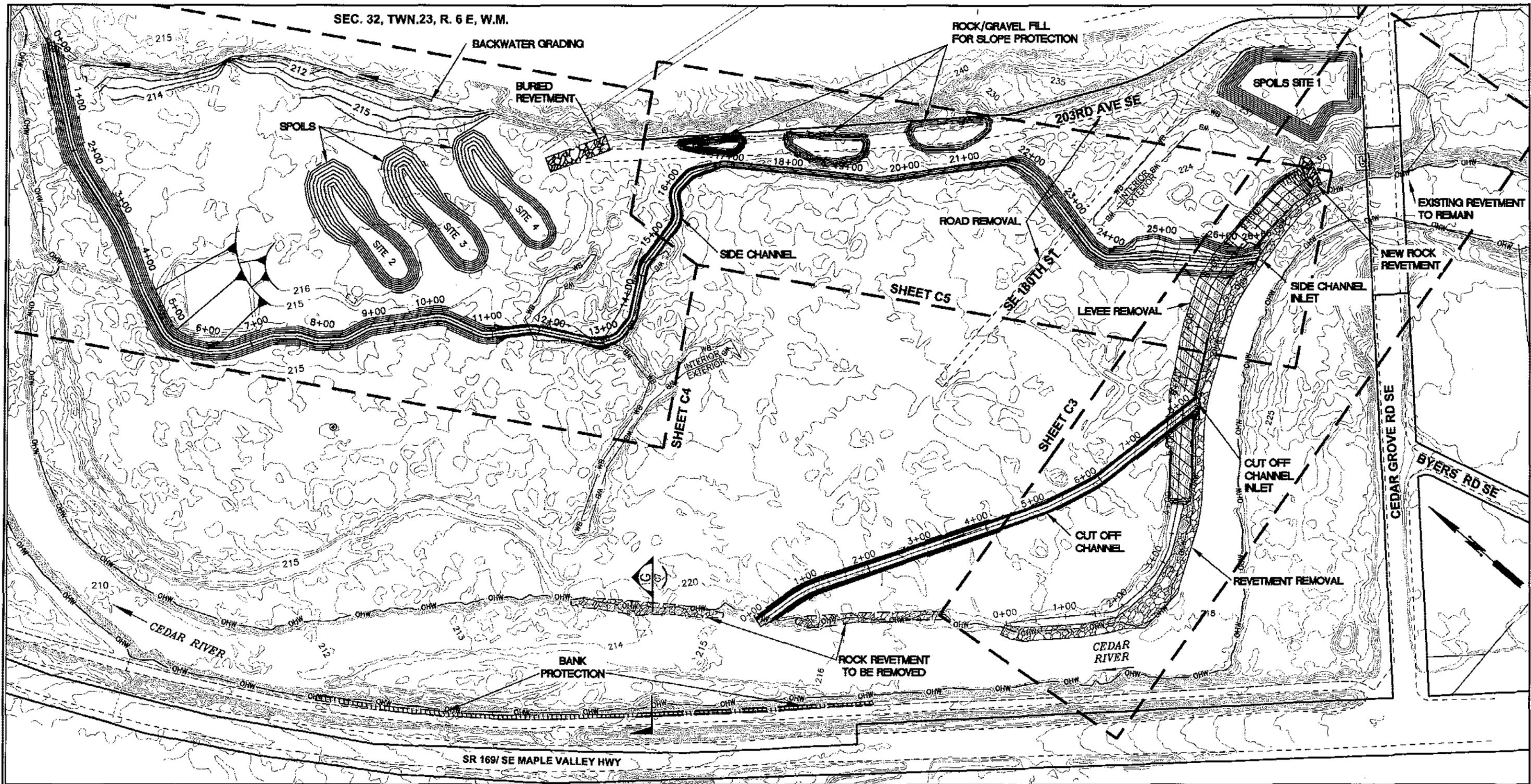
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DESIGNED: DAN EASTMAN	05/2012
TENZING THINLEY, WILL MANSFIELD	05/2012
CAD DESIGN: L. TRAXINGER	05/2012

FUNDING SOURCE No.	101349
PROJECT No.	1044405
CONTRACT No.	TBD



RAINBOW BEND LEVEE REMOVAL AND FLOODPLAIN RECONNECTION
EXISTING SITE CONDITIONS PLAN AND SURVEY CONTROL



- NOTES:**
- HAVE A COPY OF APPROVED PLANS AND ALL REGULATORY PERMITS ON SITE AT ALL TIMES.
 - IN WATER WORK SHALL ONLY TAKE PLACE FROM JULY 15 THROUGH AUGUST 31.
 - IF ARCHEOLOGICAL OR HISTORIC ARTIFACTS ARE ENCOUNTERED DURING EXCAVATION AND GRADING, IMMEDIATELY CEASE WORK AND NOTIFY THE ENGINEER.
 - REMOVE AND DISPOSE OF ANY TRASH IN WORK AREAS.
 - WORK TO BE PERFORMED BY OTHERS: REMOVAL OF EXISTING HOUSE, SEPTIC DRAINFIELD, WELLS, UTILITY POLES AND ON SITE TANKS.

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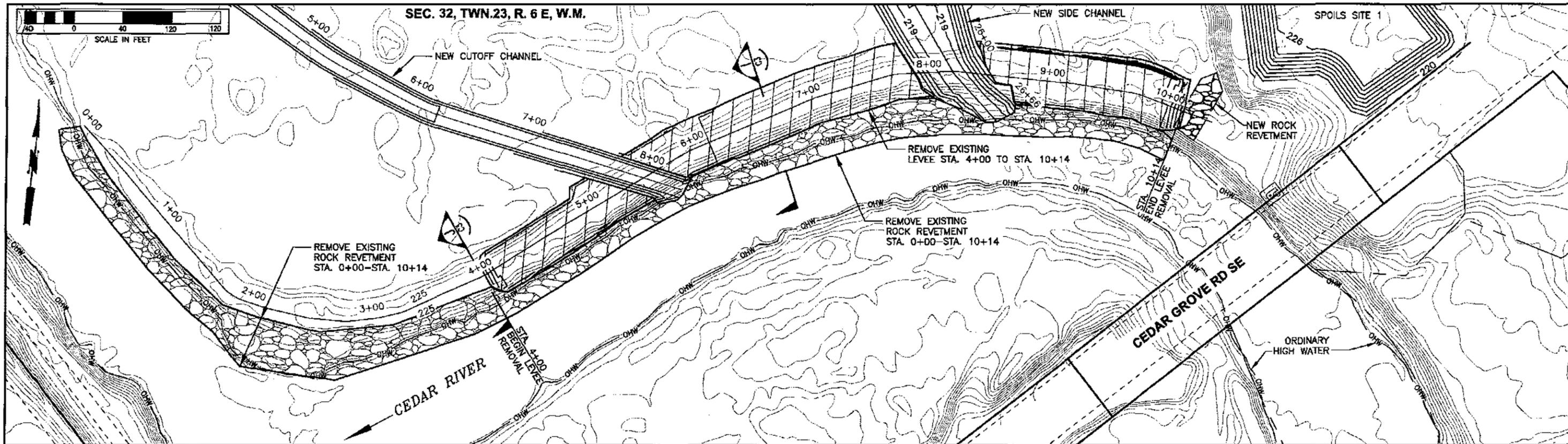
APPROVED:	WILL R. MANSFIELD, P.E.	05/2012
PROJECT MANAGER:	JON HANSEN	05/2012
DESIGNED:	DAN EASTMAN	05/2012
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King County
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 Water and Land Resources Division
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 Ecological Restoration and Engineering Services Unit
 Christie Trus, Director

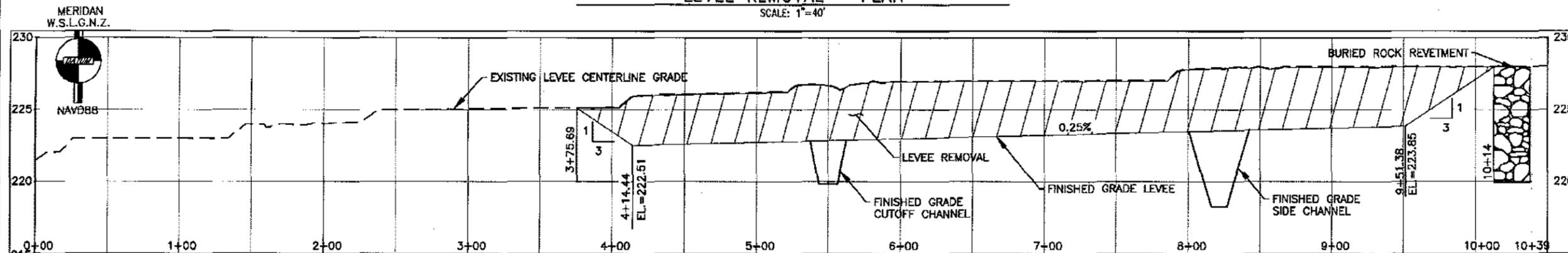
**RAINBOW BEND
 LEVEE REMOVAL AND
 FLOODPLAIN RECONNECTION
 DESIGN SITE PLAN**

SHEET
C2
 OF
15
 SHEETS
2006-27



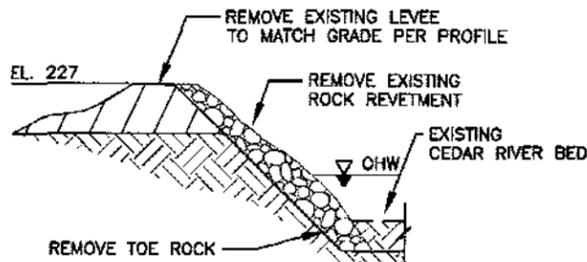
LEVEE REMOVAL - PLAN

SCALE: 1"=40'



LEVEE REMOVAL - PROFILE

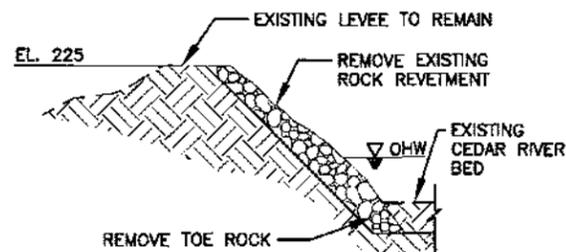
HORIZ. SCALE: 1"=40', VERT. SCALE: 1"=5'



LEVEE REMOVAL SECTION-TYPICAL
STA. 4+00 TO 10+14

SCALE: 1"=20' HORIZ., 1"=10' VERT.

I
C3



LEVEE REVETMENT REMOVAL-TYPICAL
STA. 0+00 TO 4+00

SCALE: 1"=20' HORIZ., 1"=10' VERT.

J
C7

CONSTRUCTION SEQUENCE/GENERAL NOTES:

1. CONSTRUCT ACCESS ROAD TO LEVEE AND REVETMENT REMOVAL LOCATIONS.
2. REMOVE VEGETATION AND TREES LOCATED WITHIN THE CLEARING LIMITS. AVOID TREES MARKED TO BE SAVED. ALL REMOVED TREES TO BE SALVAGED ON SITE.
3. INSTALL WATER DIVERSION MEASURES AS PER TESC SHEETS.
4. FISH REMOVAL TO BE COMPLETED UNDER THE DIRECTION OF THE ONSITE ECOLOGISTS BEFORE IN-WATER WORK BEGINS. NO IN-WATER WORK UNTIL GIVEN BY APPROVAL BY ONSITE ECOLOGIST ON A DAILY BASIS.
5. CONSTRUCT ACCESS BENCH AS NECESSARY FOR LEVEE AND REVETMENT REMOVAL. INSTALL ACCESS PLATES IF NECESSARY.
6. REMOVE LEVEE MATERIAL AND TRENCH FOR THE UPSTREAM BURIED REVETMENT. HALL TO SPOILS LOCATIONS AS PER SHEET C2.
7. REMOVE ROCK REVETMENT INCLUDING ALL TOE ROCK AND HAUL TO FILL LOCATION ON RIGHT BANK AND REVETMENT IMPROVEMENTS ALONG THE CEDAR RIVER TRAIL.
8. REMOVE MATERIAL WITHIN LEVEE PRISM FOR THE NEW SIDE CHANNEL AND GRADE PER PLANS. HAUL MATERIAL TO SPOILS AREA.
9. GRADE REMOVAL AREAS TO ELEVATIONS AS PER SHEET C3.
10. REMOVE WATER DIVERSION MEASURES.

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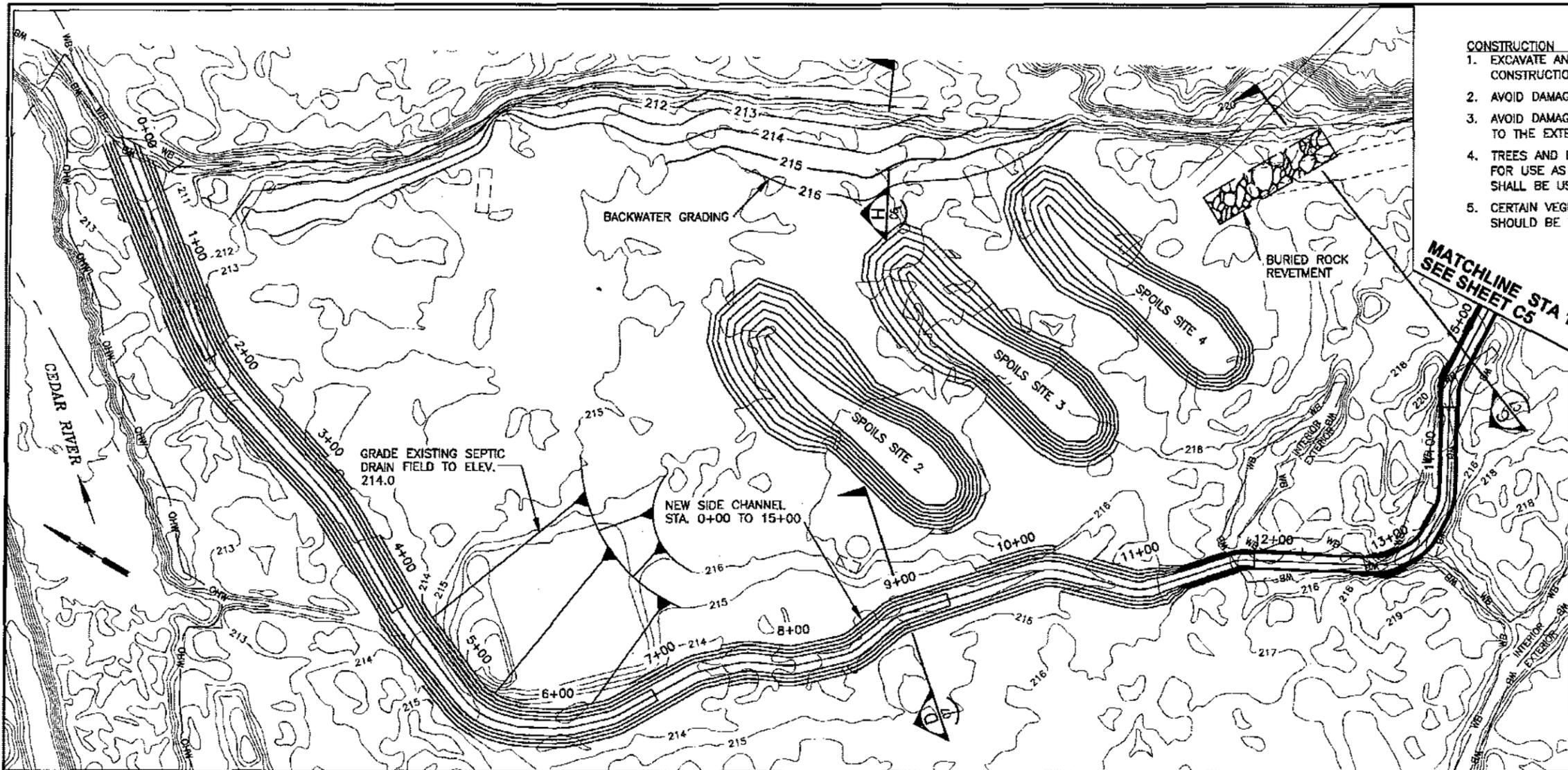
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					CAD DESIGN: L. TRAXINGER	05/2012		

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration
and Engineering Services Unit
Christie True, Director

**RAINBOW BEND
LEVEE REMOVAL AND
FLOODPLAIN RECONNECTION
LEVEE REMOVAL PLAN, PROFILE AND SECTIONS**

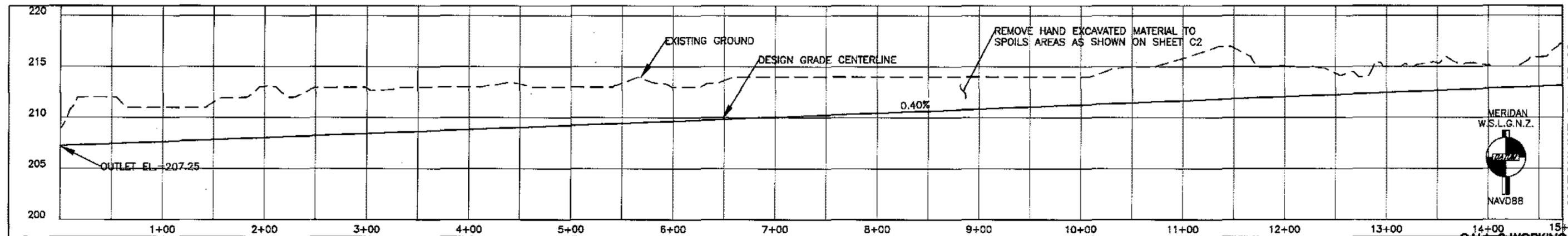
SHEET
C3
OF
15
SHEETS
2006-27



- CONSTRUCTION NOTES:**
1. EXCAVATE AND DISPOSE ON SITE, MATERIAL FOR SIDE CHANNEL CONSTRUCTION.
 2. AVOID DAMAGE TO TREES OUTSIDE THE CLEARING AND GRUBBING LIMITS.
 3. AVOID DAMAGE TO TREES WITHIN THE CLEARING AND GRUBBING LIMITS TO THE EXTENT POSSIBLE.
 4. TREES AND BRUSH REMOVED FOR CONSTRUCTION SHALL BE STOCKPILED FOR USE AS RACKING LOGS AND SLASH MATERIAL AGAINST TREES AND SHALL BE USED IN FLOODPLAIN AREAS TO CREATE ROUGHENING.
 5. CERTAIN VEGETATION MAY BE FLAGGED BY THE ECOLOGIST AND CARE SHOULD BE TAKEN TO PROTECT THOSE PLANTS.

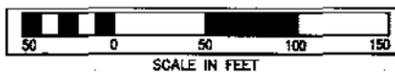
SIDE CHANNEL - PLAN
STA. 0+00 TO STA. 15+00

SCALE: 1"=50' HORIZ., 1"=5' VERT.



SIDE CHANNEL - PROFILE
STA. 0+00 TO STA. 15+00

SCALE: 1"=50' HORIZ., 1"=5' VERT.



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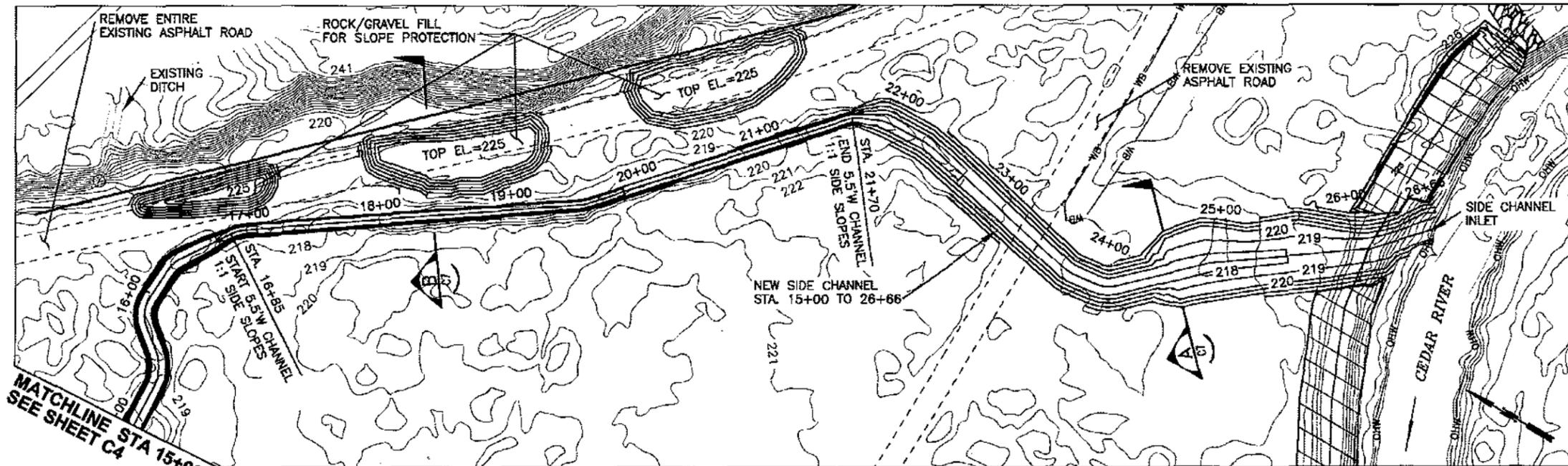
King County
Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration and Engineering Services Unit
Christie True, Director

RAINBOW BEND
LEVEE REMOVAL AND
FLOODPLAIN RECONNECTION
SIDE CHANNEL - GRADING PLAN AND PROFILE
STA. 0+00 TO STA. 15+00

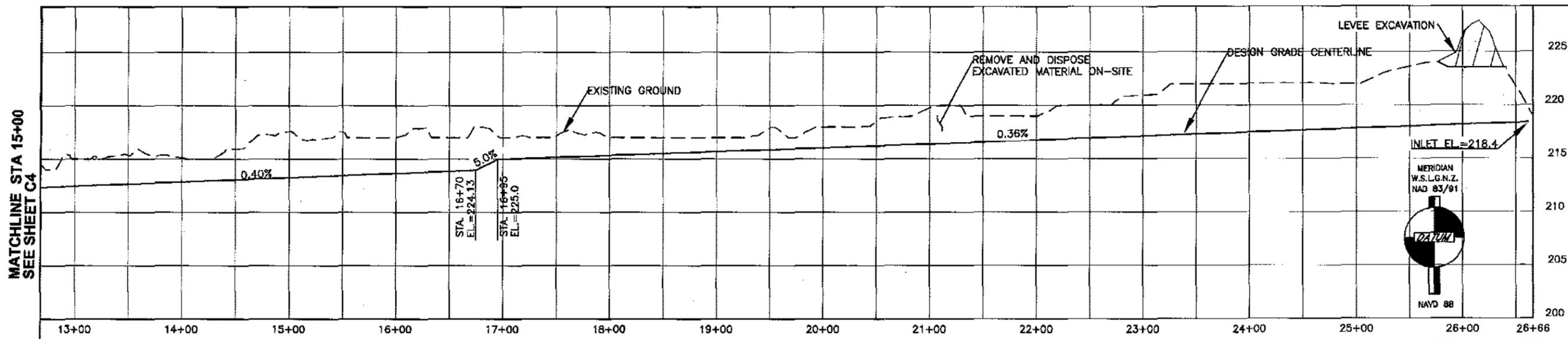
SHEET
C4
OF
15
SHEETS
2006-27

CONSTRUCTION NOTES:

1. EXCAVATE MATERIAL FOR SIDE CHANNEL CONSTRUCTION AND DISPOSE ONSITE.
2. AVOID DAMAGE TO TREES OUTSIDE THE CLEARING AND GRUBBING LIMITS.
3. AVOID DAMAGE TO TREES WITHIN THE CLEARING AND GRUBBING LIMITS TO THE EXTENT POSSIBLE.
4. TREES AND BRUSH REMOVED FOR CONSTRUCTION SHALL BE STOCKPILED FOR USE AS RACKING LOGS AND SLASH MATERIAL AGAINST TREES AND SHALL BE USED IN FLOODPLAIN AREAS TO CREATE ROUGHENING.
5. CERTAIN VEGETATION MAY BE FLAGGED BY THE ECOLOGIST AND CARE SHOULD BE TAKEN TO PROTECT THOSE PLANTS.



SIDE CHANNEL - PLAN
STA. 15+00 TO STA. 26+66
 SCALE: 1"=50' HORIZ., 1"=5' VERT.

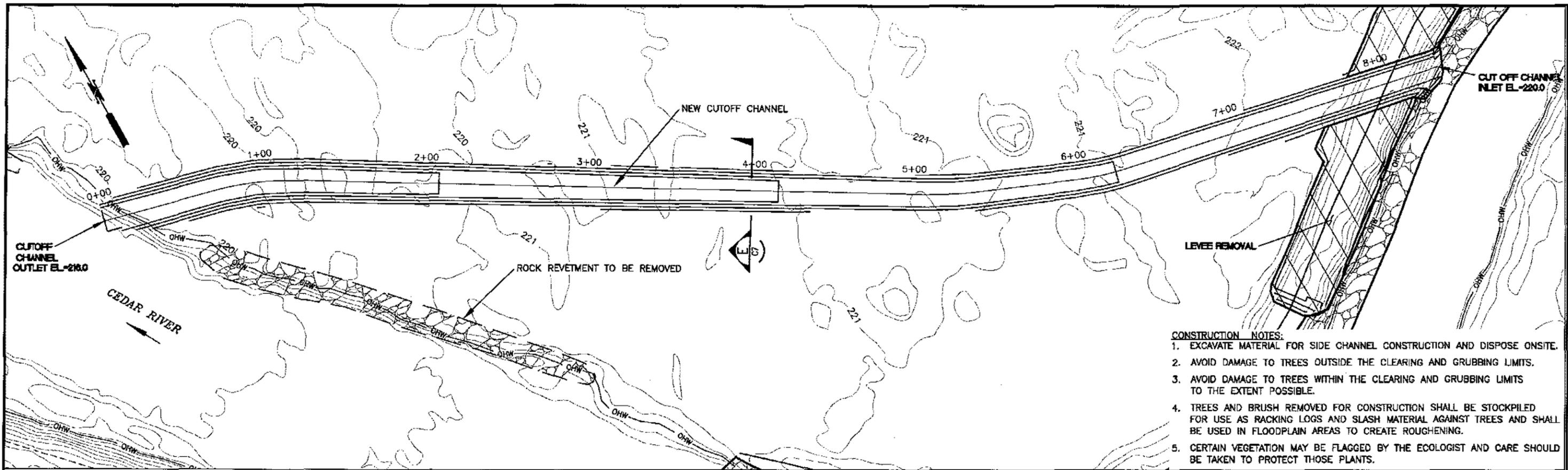


SIDE CHANNEL - PROFILE
STA. 15+00 TO STA. 26+66
 SCALE: 1"=50' HORIZ., 1"=5' VERT.

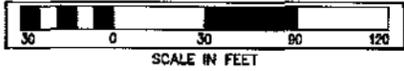
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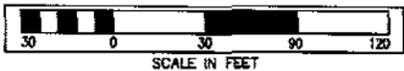
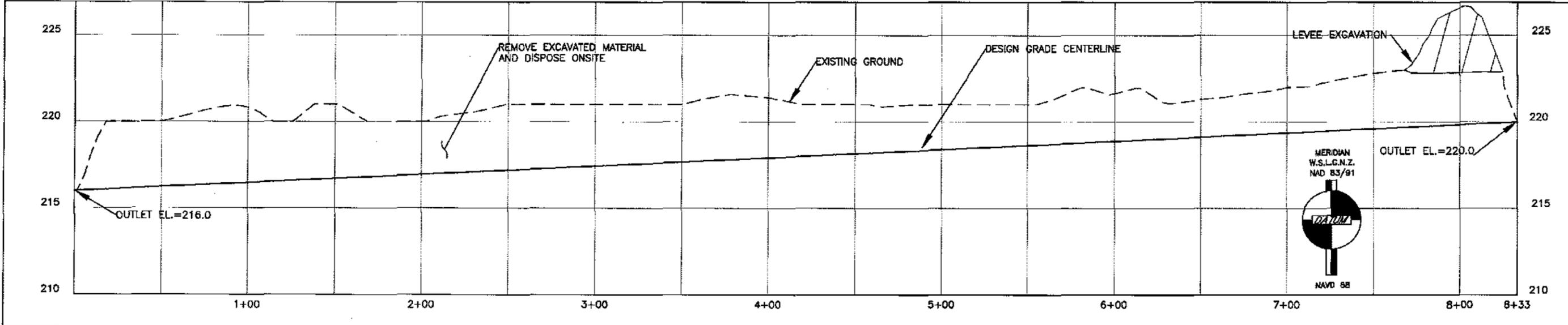
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			30% DISTRIBUTION SET 5/14/2012	NUM.	RECORD CHANGES APPROVED	BY	DATE	DESIGNED: DAN EASTMAN 05/2012	PROJECT No. 1044405					



- CONSTRUCTION NOTES:**
1. EXCAVATE MATERIAL FOR SIDE CHANNEL CONSTRUCTION AND DISPOSE ONSITE.
 2. AVOID DAMAGE TO TREES OUTSIDE THE CLEARING AND GRUBBING LIMITS.
 3. AVOID DAMAGE TO TREES WITHIN THE CLEARING AND GRUBBING LIMITS TO THE EXTENT POSSIBLE.
 4. TREES AND BRUSH REMOVED FOR CONSTRUCTION SHALL BE STOCKPILED FOR USE AS RACKING LOGS AND SLASH MATERIAL AGAINST TREES AND SHALL BE USED IN FLOODPLAIN AREAS TO CREATE ROUGHENING.
 5. CERTAIN VEGETATION MAY BE FLAGGED BY THE ECOLOGIST AND CARE SHOULD BE TAKEN TO PROTECT THOSE PLANTS.



CUTOFF CHANNEL - PLAN
 STA. 0+00 TO 8+33
 SCALE: 1"=30' HORIZ.



CUTOFF CHANNEL - PROFILE
 STA. 0+00 TO 8+33
 SCALE: 1"=30' HORIZ., 1"=5' VERT.

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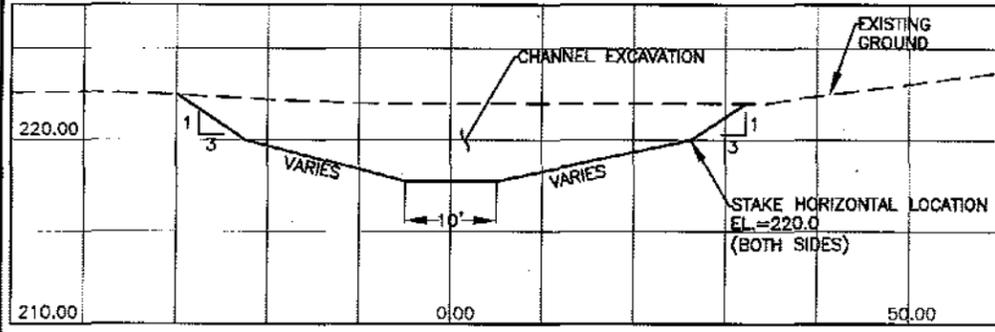
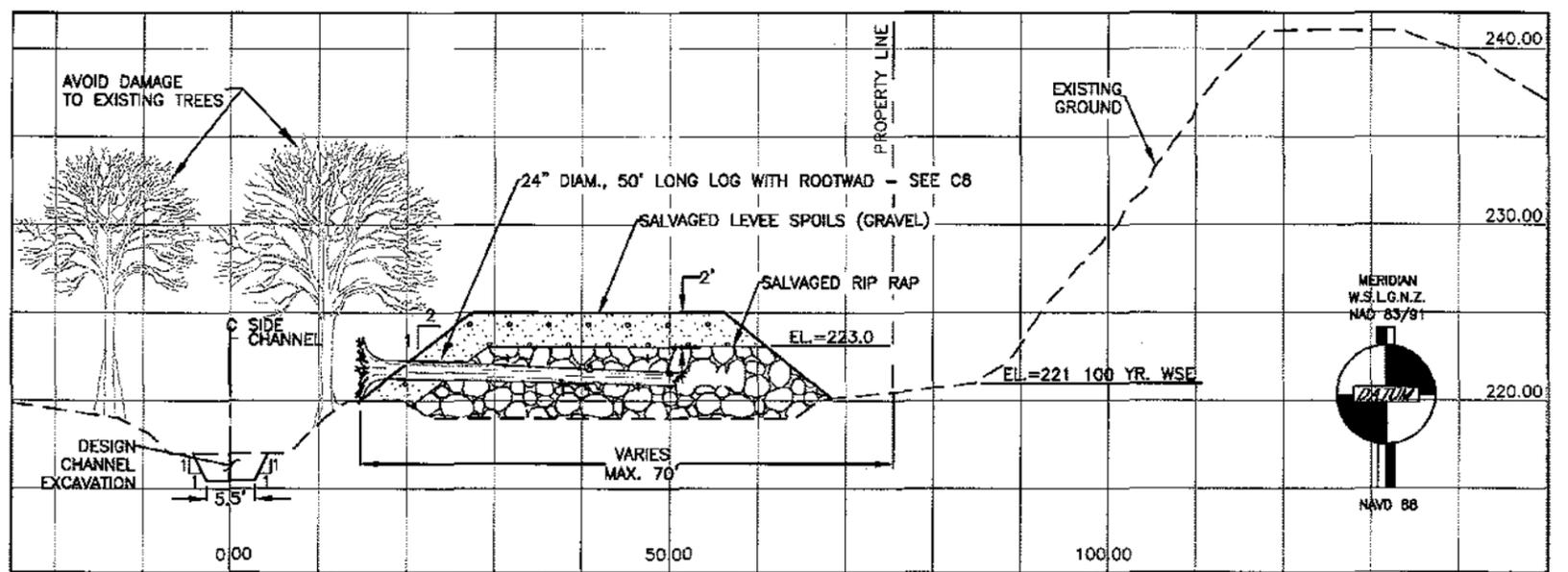
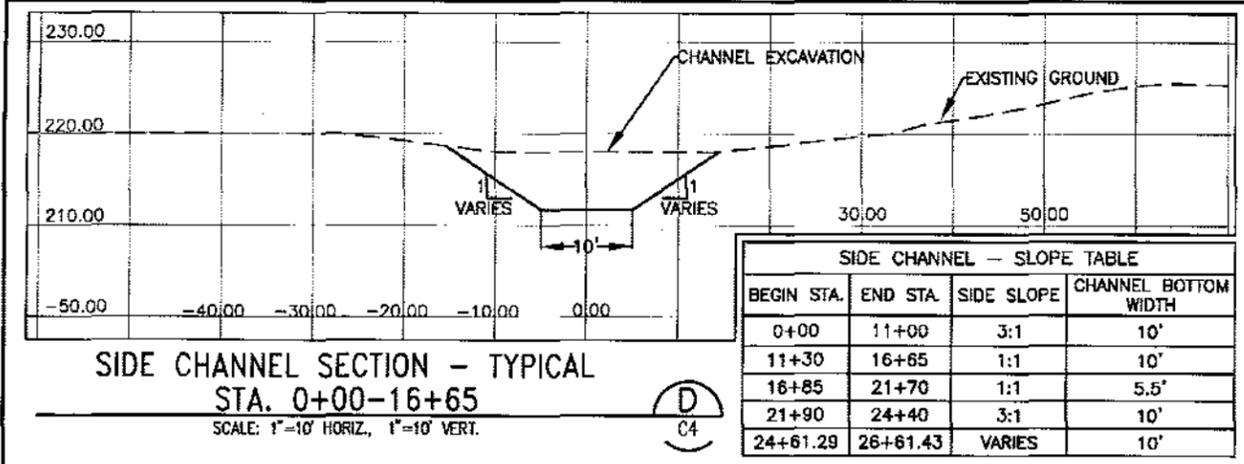
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	TENZING THINLEY, WILL MANSFIELD	05/2012
CAD DESIGN:	L. TRAXINGER	05/2012

FUNDING SOURCE No.	101349
PROJECT No.	1044405
CONTRACT No.	TBD

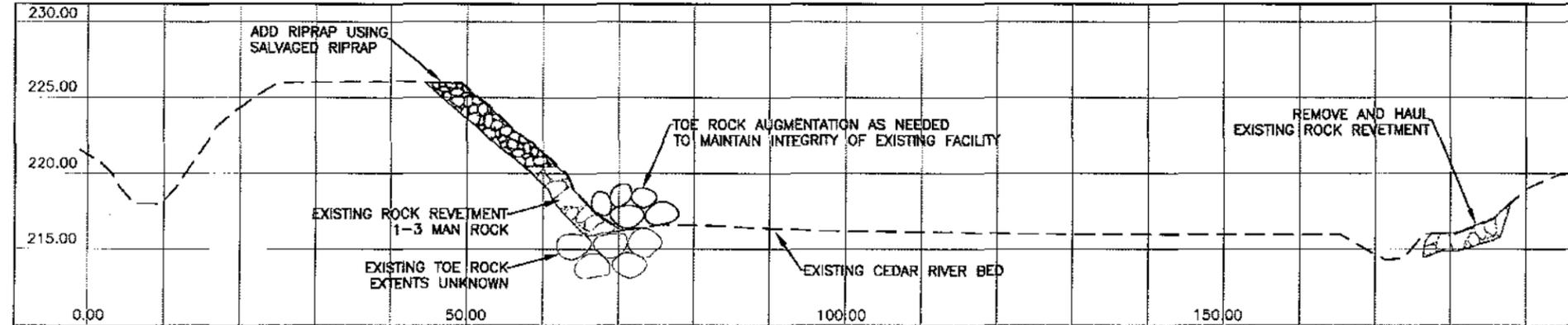
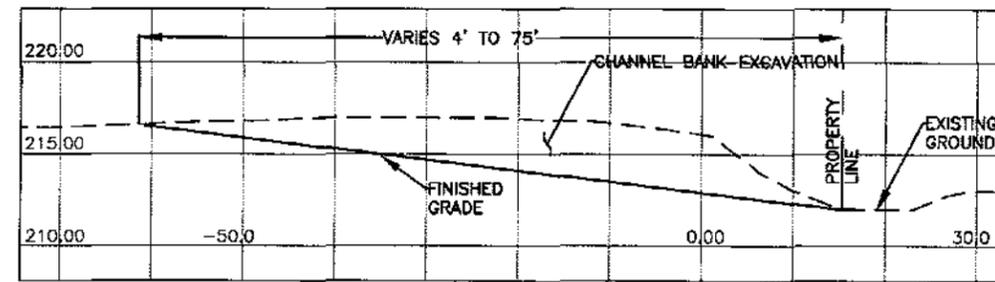
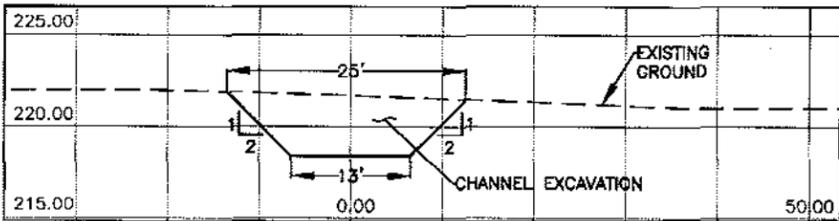
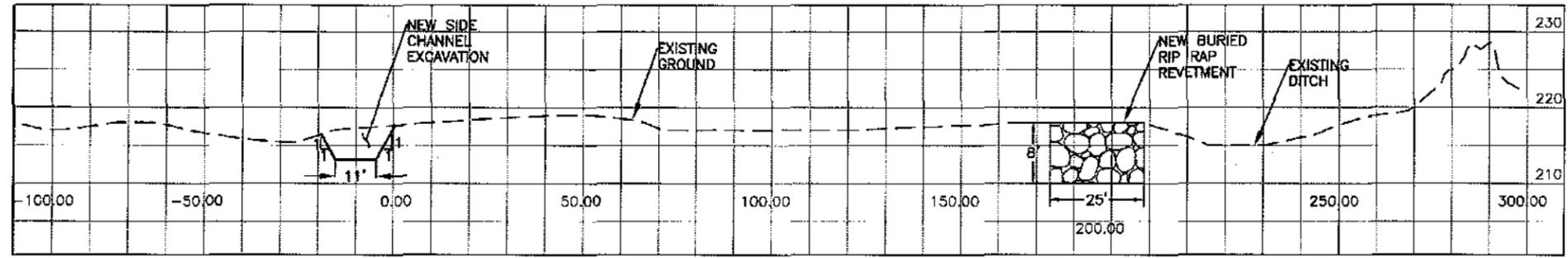


RAINBOW BEND
LEVEE REMOVAL AND
FLOODPLAIN RECONNECTION
CUTOFF CHANNEL
GRADING PLAN AND PROFILE

SHEET
C6
 OF
15
 SHEETS
2006-27

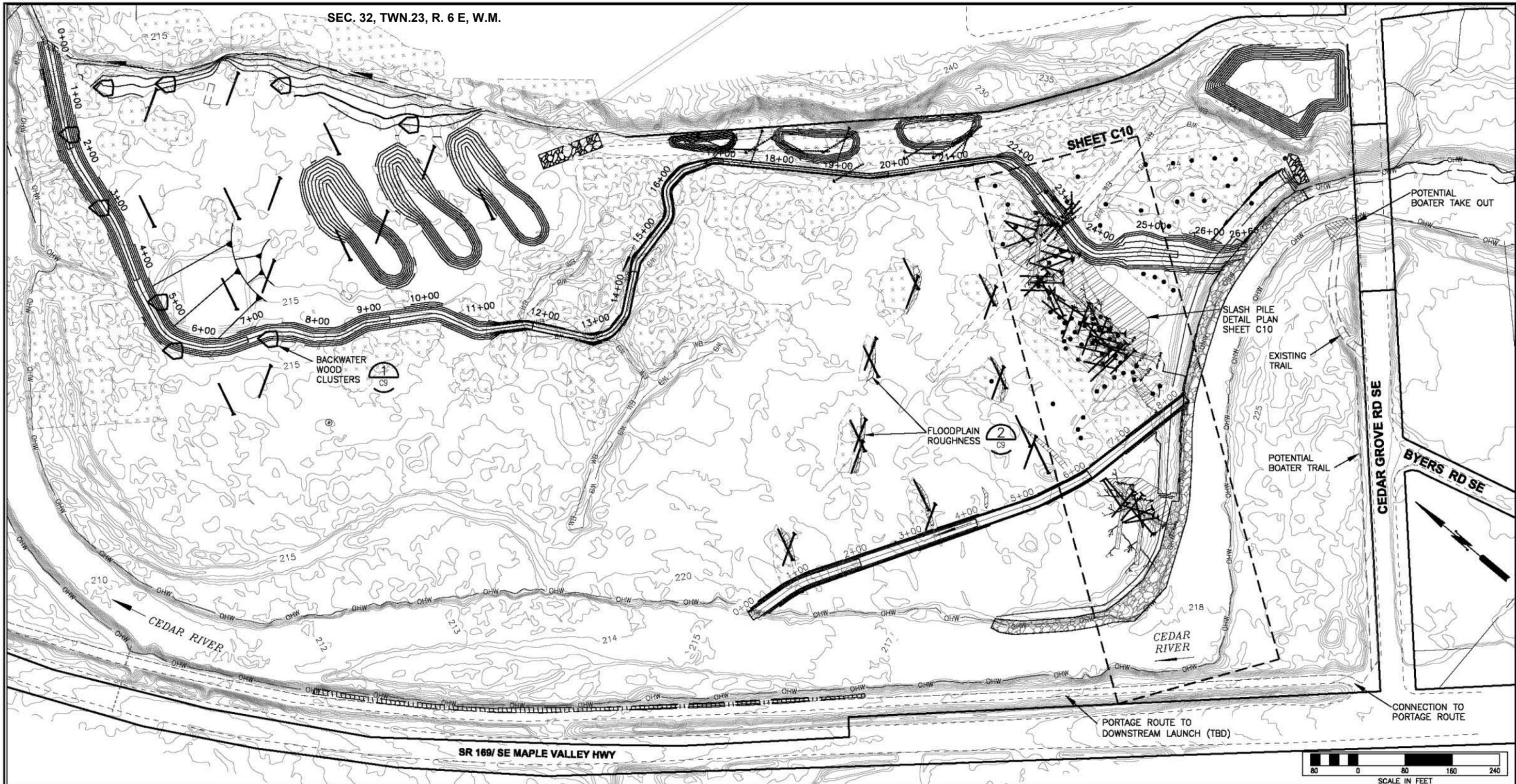


NOTE:
ALL SECTION VIEWS LOOK DOWNSTREAM



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FIELD BOOK: SURVEYED: K.C. LIDAR 03-2010 SURVEY BASE MAP: K.C. LIDAR 03-2010 CHECKED:	NUM. REVISION 30% DISTRIBUTION SET 5/14/2012	APPROVED: WILL R. MANSFIELD, P.E. 05/2012 PROJECT MANAGER: JON HANSEN 05/2012 DESIGNED: DAN EASTMAN 05/2012 TENZING THINLEY, WILL MANSFIELD 05/2012 CAD DESIGN: L. TRAXINGER 05/2012	FUNDING SOURCE No. 101349 PROJECT No. 1044405 CONTRACT No. TBD	King County Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit Christia True, Director	RAINBOW BEND LEVEE REMOVAL AND FLOODPLAIN RECONNECTION CROSS SECTIONS AND DETAILS	SHEET C7 OF 15 SHEETS 2006-27
	NUM. RECORD CHANGES APPROVED BY DATE	NUM. DATE	NUM. DATE			
	NUM. DATE	NUM. DATE	NUM. DATE			
	NUM. DATE	NUM. DATE	NUM. DATE			



WOOD LEGEND

- LARGE DECIDUOUS WOOD
- BURIED LOG
- SIGNIFICANT TREES
- LARGE FELLED TREE
- LANDSBURG WOOD
- BACKWATER WOOD CLUSTERS
- SLASH PILE
- EXISTING DENSE VEGETATION

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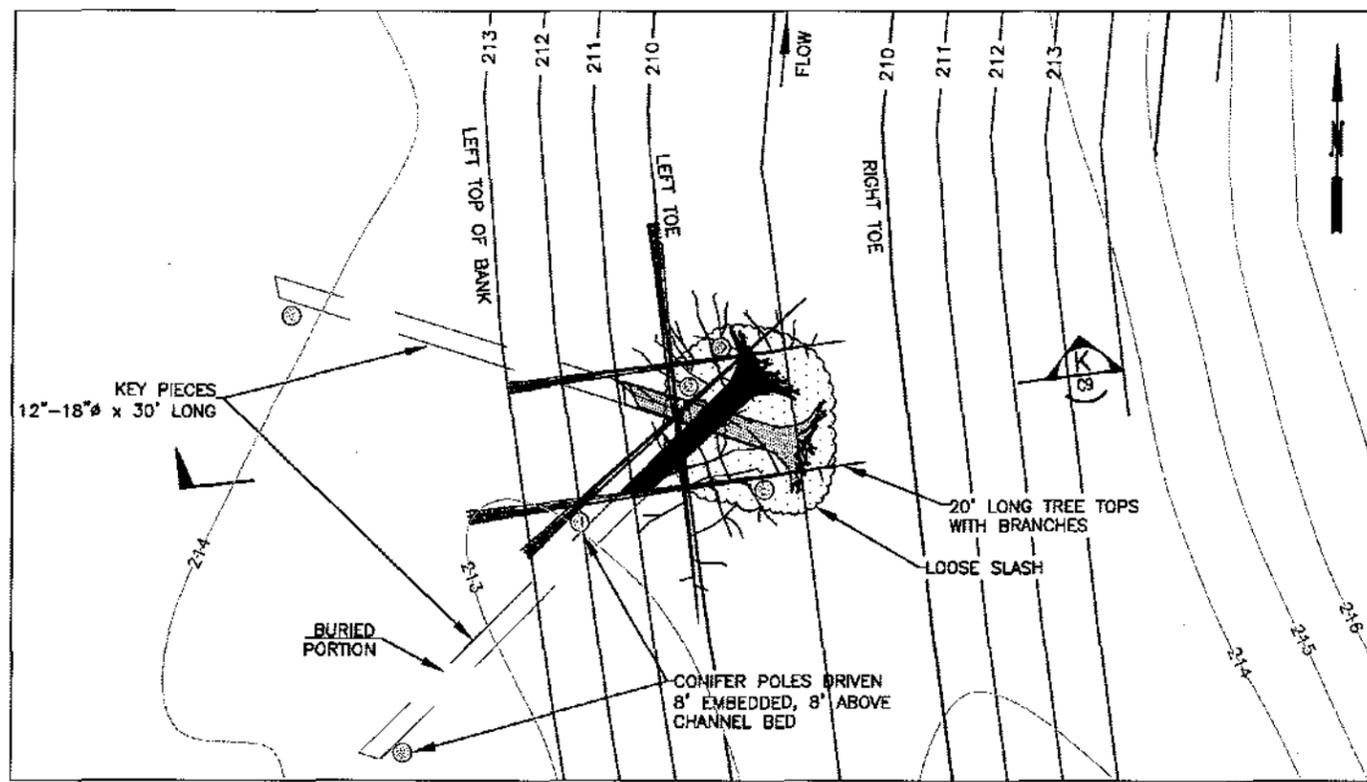
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King County
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Water and Land Resources Division
Rural and Regional Services Section
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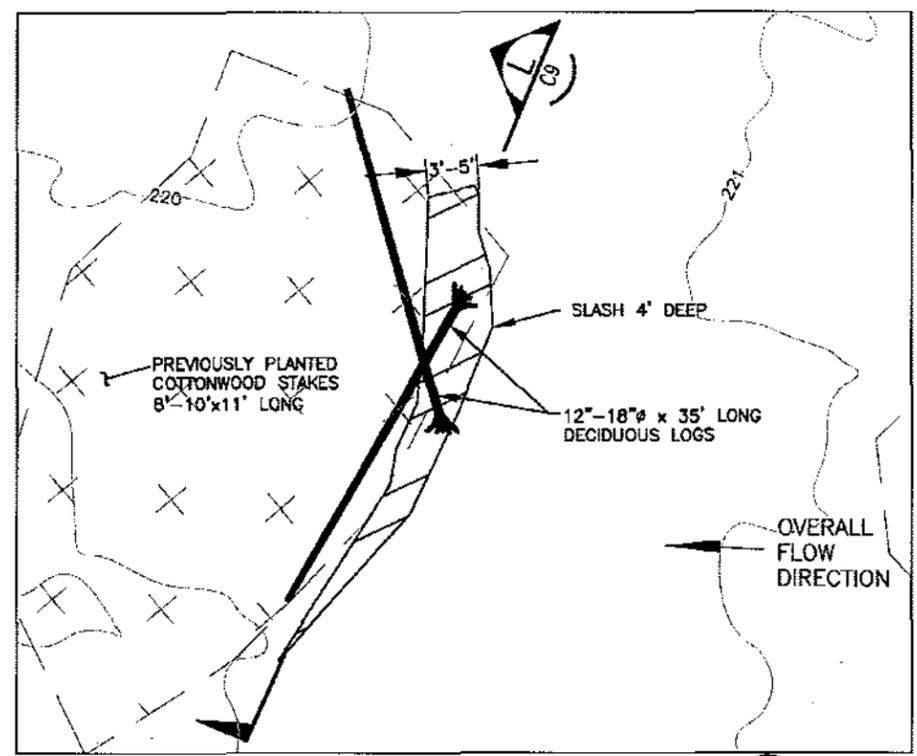
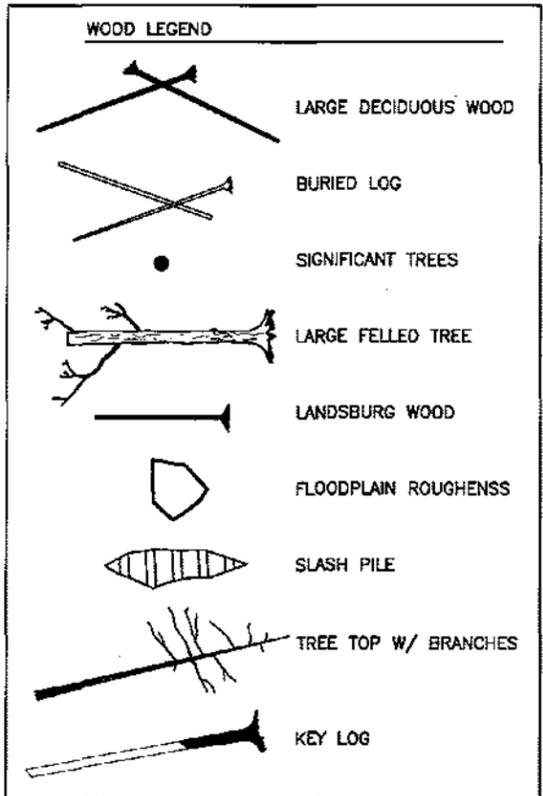
**RAINBOW BEND
LEVEE REMOVAL AND
FLOODPLAIN RECONNECTION
WOOD PLACEMENT PLAN**

SHEET
C8
OF
15
SHEETS

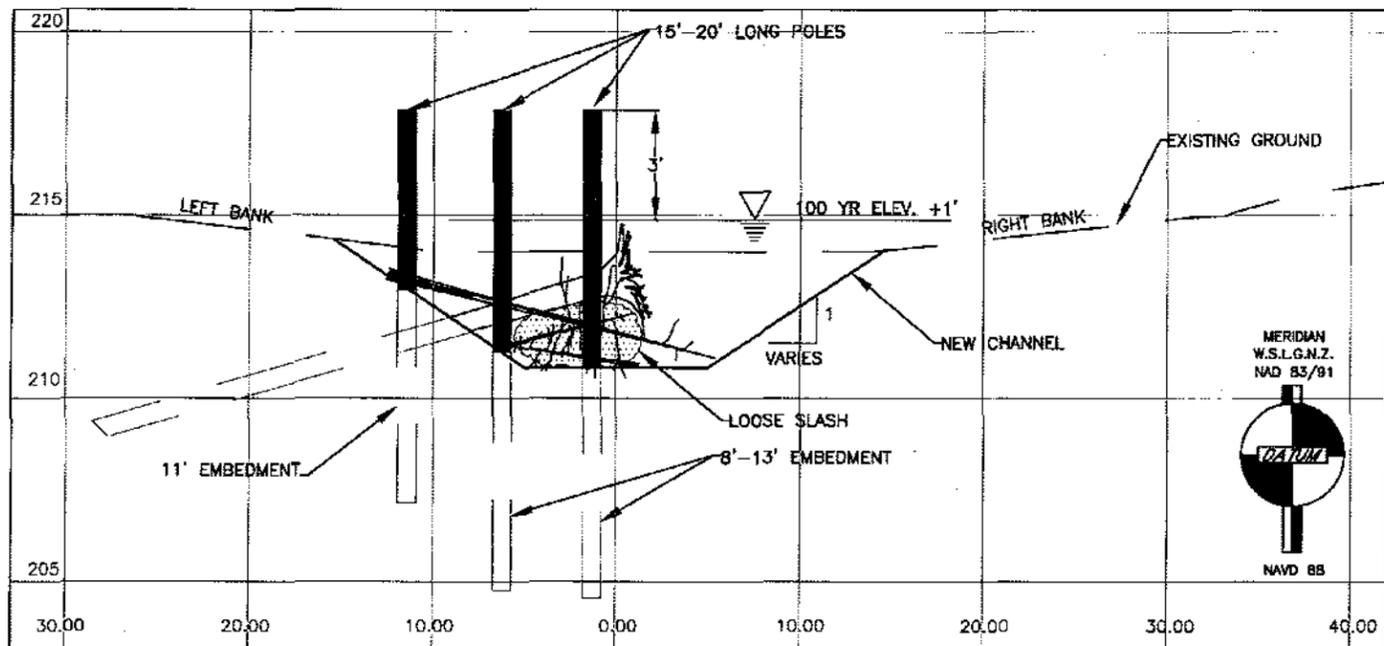
2006-27



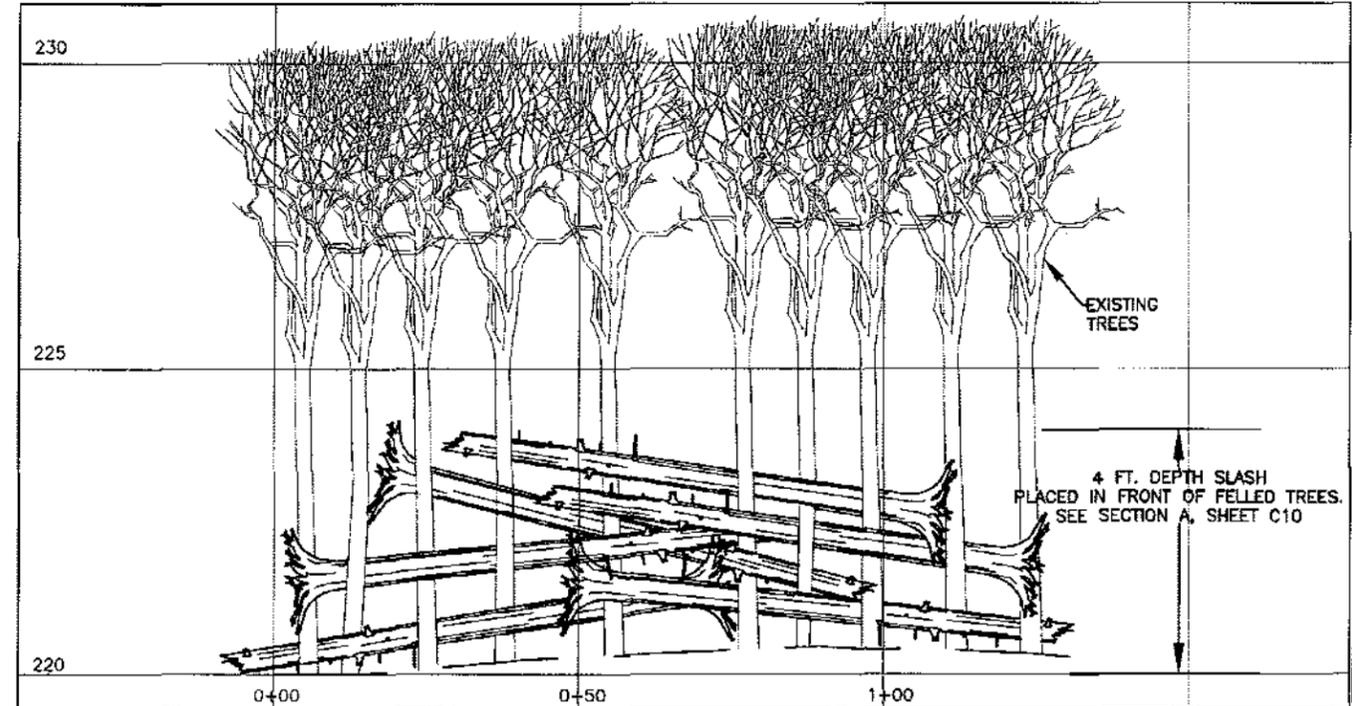
BACKWATER WOOD CLUSTERS-PLAN VIEW (1) C8
SCALE: 1"=5'



FLOODPLAIN ROUGHNESS - PLAN VIEW (2) C8
SCALE: 1"=15'



BACKWATER WOOD CLUSTERS-SECTION VIEW (TYPICAL) (K) C9
SCALE: 1"=5' HORIZ, 1"=2.5' VERT.



FLOODPLAIN ROUGHNESS-SECTION VIEW (TYPICAL) (L) C9
SCALE: 1"=15' HORIZ, 1"=1.5' VERT.

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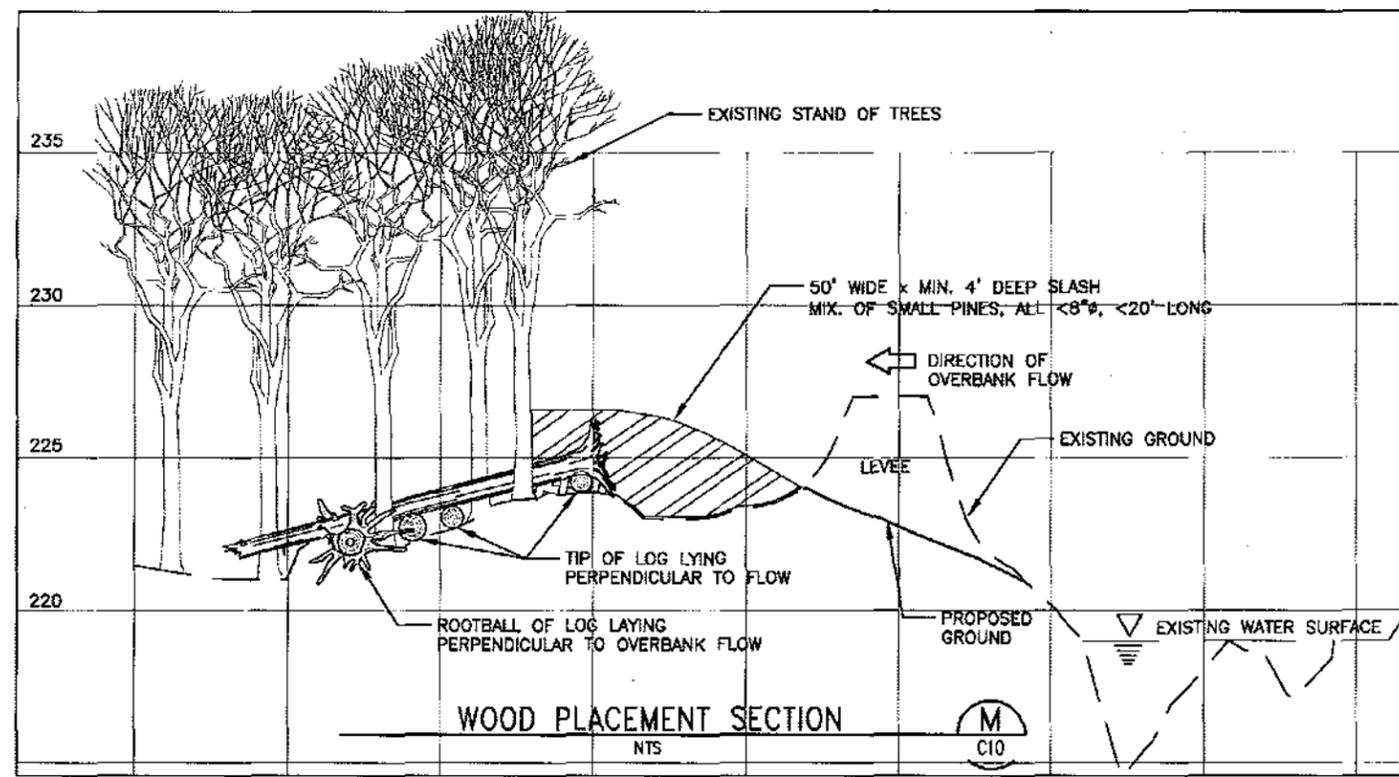
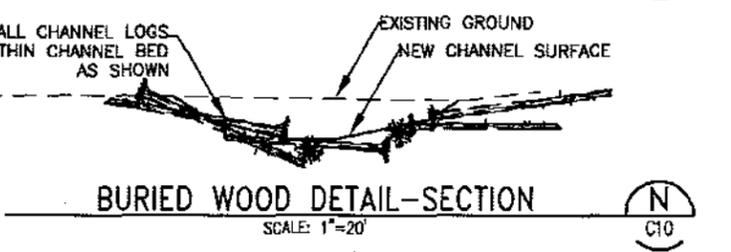
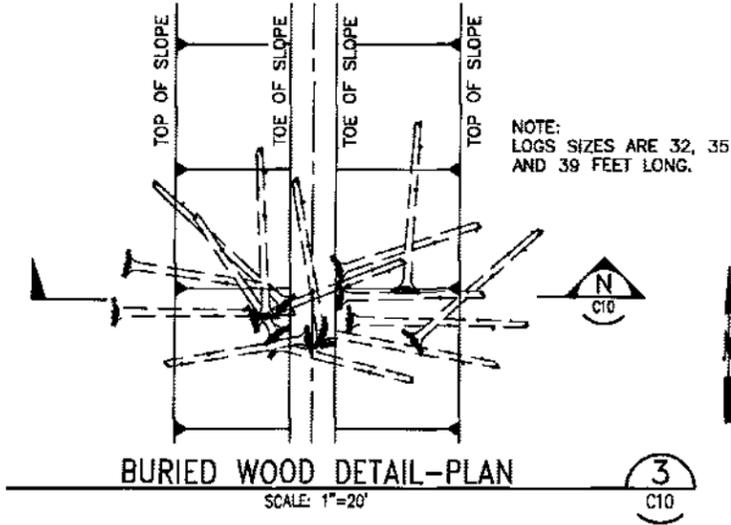
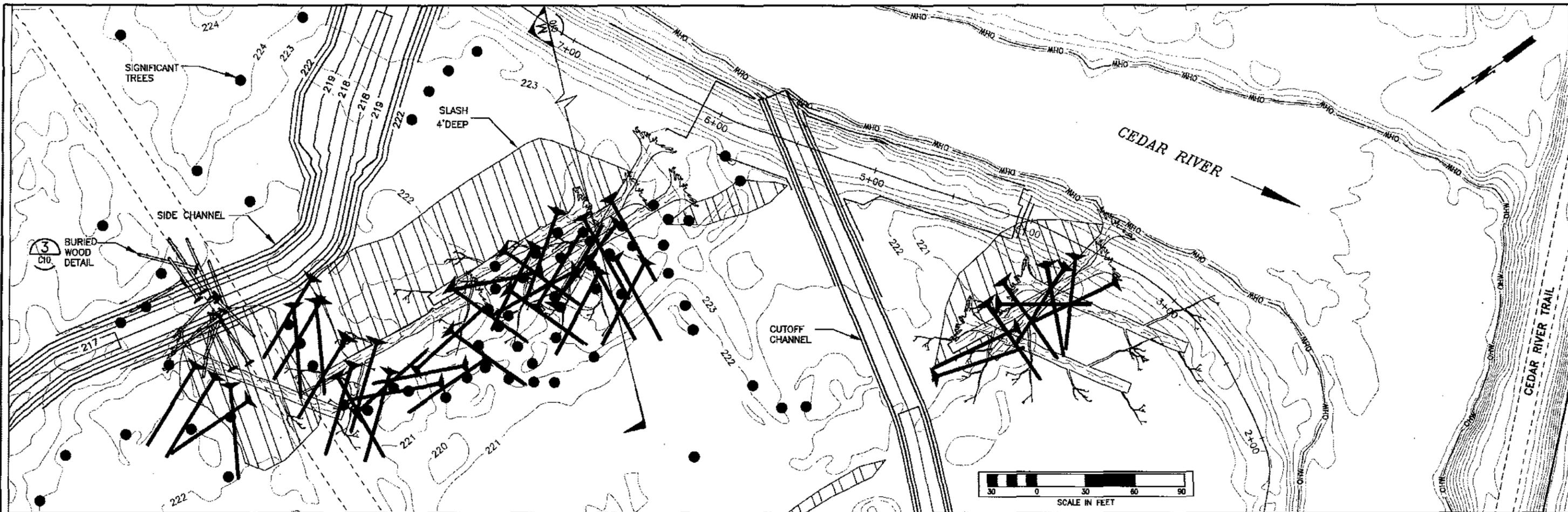
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Christie True, Director

RAINBOW BEND LEVEE REMOVAL AND FLOODPLAIN RECONNECTION
WOOD PLACEMENT DETAILS

SHEET **C9** OF **15** SHEETS
2006-27



WOOD LEGEND

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- BURIED LOG
- SIGNIFICANT TREES
- LARGE FELLED TREE
- LANDSBURG WOOD
- FLOODPLAIN ROUGHNESS
- SLASH PILE
- ROOT WAD

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**RAINBOW BEND
LEVEE REMOVAL AND
FLOODPLAIN RECONNECTION
WOOD PLACEMENT DETAILS**

SHEET
C10
OF
15
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**STORMWATER POLLUTION PREVENTION PLAN NOTES (SWPPP)
IN COMPLIANCE WITH THE STORMWATER MANAGEMENT MANUAL FOR PUGET SOUND (2001)**

ACKNOWLEDGEMENT:

THIS PROJECT EXCEEDS THE MINIMUM THRESHOLD REQUIREMENT UNDER THE STORMWATER MANAGEMENT MANUAL FOR PUGET SOUND (SMMPs) FOR "REDEVELOPMENT" AND IS SUBJECT TO MEETING THE MINIMUM REQUIREMENTS #1- #10 FOR NEW IMPERVIOUS SURFACES AND CONVERTED PERVIOUS SURFACES. ADDITIONALLY, FOR ROAD RELATED PROJECTS, RUNOFF FROM THE "REPLACED AND NEW IMPERVIOUS SURFACES" (INCLUDING SHOULDERS, CURBS AND SIDEWALKS) SHALL MEET ALL OF THE MINIMUM REQUIREMENTS IF THE NEW IMPERVIOUS SURFACES TOTAL 5,000 SQUARE FEET OR MORE AND TOTAL 50% OR MORE OF THE EXISTING IMPERVIOUS SURFACES WITHIN THE PROJECT LIMITS (DEFINED AS LENGTH AND WIDTH OF THE RIGHT-OF-WAY).

MINIMUM REQUIREMENTS (1-10)

MINIMUM REQUIREMENT #1 - PREPARATION OF STORMWATER SITE PLANS

THIS PROJECT REQUIRES THE PREPARATION OF A STORMWATER SITE PLAN BECAUSE IT MEETS THE THRESHOLD IN SECTION 2.4 OF VOLUME I OF THE SMMPs. THE "REDEVELOPMENT" THRESHOLD REQUIREMENTS TRIGGERING COMPLIANCE WITH MINIMUM REQUIREMENTS #1-#10 INCLUDE:

- > ADDING 5,000 SQUARE FEET OF MORE OR NEW IMPERVIOUS SURFACES;
- > CONVERTS 3/4 ACRES OR MORE OF NATIVE VEGETATION TO LAWN OR LANDSCAPE;
- > CONVERTS 2.5 ACRES OR MORE OF NATIVE VEGETATION TO PASTURE.

THIS STORMWATER SITE PLAN WAS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 3 IN VOLUME II OF THE SMMPs.

MINIMUM REQUIREMENT #2 - CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

ELEMENT REQUIREMENTS	BEST MANAGEMENT PRACTICES - (BMP's)
ELEMENT #1 "DELINEATE CLEARING AND GRADING LIMITS"	(PRESERVE NATURAL VEGETATION; BUFFER ZONES; HIGH VISIBILITY FENCE) - SURVEY AND STAKE ALL "CUT & FILL" SLOPES. INDIVIDUAL TREES TO BE PRESERVED WITHIN THE CONSTRUCTION AREA SHALL BE MARKED.
ELEMENT #2 "ESTABLISH CONSTRUCTION ACCESS"	(STABILIZED CONSTRUCTION ENTRANCE, CONSTRUCTION ROAD STABILIZATION) - CONSTRUCTION VEHICLE ACCESS AND EXIT TO STAGING AREAS, STOCKPILING AND GRADED AREAS, SHALL BE IMPLEMENTED TO LIMITED TWO DEFINED ACCESS POINTS TO ACCOMMODATE LARGE EQUIPMENT MANEUVERING. ACCESS POINTS SHALL TYPICALLY BE STABILIZED AND MAINTAINED WITH QUARRY SPALLS OR CRUSHED ROCK TO MINIMIZE THE TRANSPORT OF SEDIMENT ON TO PAVED SURFACES. WHEEL WASH OR TIRE BATHS SHOULD BE LOCATED ON SITE AS FEASIBLE AND APPLICABLE. SEDIMENT SHALL BE REMOVED FROM ROADWAYS BY SHOVELING OR PICKUP SWEEPING AND DEPOSITED IN A SEDIMENT DISPOSAL AREA. CONSTRUCTION ACCESS RESTORATION SHALL BE EQUAL TO OR BETTER THAN ITS PRE-CONSTRUCTION STATE.
ELEMENT #3 "CONTROL FLOW RATES"	(SEDIMENT TRAP; CHECK DAMS; INTERCEPTOR DIKE & SWALE) - DOWNSTREAM PROPERTIES AND WATERWAYS SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOWS FROM CONSTRUCTION SITE STORMWATER RUNOFF. TEMPORARY STORMWATER FACILITIES SHALL BE BUILT AND OPERATIONAL AS PART OF THE FIRST STAGE OF GRADING OPERATIONS.
ELEMENT #4 "INSTALL SEDIMENT CONTROLS"	(BRUSH BARRIER; GRAVEL FILTER BERM; COMPOST BERM; SILT FENCE; VEGETATED STRIP; STRAW WATTLES, COIR LOGS; SEDIMENT TRAP; SEDIMENT POND) - PRIOR TO THE RELEASE OF STORMWATER FROM DISTURBED AREAS, IT SHALL PASS THROUGH A SEDIMENT POND, TRAP, BIOSWALE, SEDIMENT BAG OR OTHER APPROPRIATE SEDIMENT REMOVAL BMP.
ELEMENT #5 "STABILIZE SOILS"	(TEMPORARY & PERMANENT SEEDING; STRAW AND WOOD CHIP MULCHING; EROSION CONTROL BLANKETS, MATTING AND NETS); PLASTIC COVERING; SODDING; TOPSOILING; COMPOST; PAW'S; SURFACE ROUGHENING; GRADIENT TERRACES; DUST CONTROL) - BETWEEN OCTOBER 1 AND APRIL 30, SOILS (INCLUDING STOCKPILES) SHALL NOT REMAIN EXPOSED MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. SELECTED SOIL STABILIZATION MEASURES SHALL BE IMPLEMENTED MAINTAINED AND APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, EXPOSURE & ORIENTATION, DURATION OF USE AND IMPACTS TO WATER QUALITY AND GROUND WATER.
ELEMENT #6 "PROTECT SLOPES"	(TEMPORARY & PERMANENT SEEDING; PRESERVE VEGETATION; PHASED GRADING; SURFACE ROUGHENING; EROSION CONTROL BLANKETS, MATTING & NETS; PLASTIC COVERING; GRADIENT TERRACES; INTERCEPTOR DIKE & SWALE; GRASS LINED CHANNELS; PIPE SLOPE DRAINS; SUBSURFACE DRAINS; LEVEL SPREADER; CHECK DAMS; TRIANGULAR SILT DIKE) - PHASE GRADING TO MINIMIZE EXPOSED CUT & FILL SLOPES; REDUCE RUNOFF VELOCITIES BY TERRACING CUT SLOPES & DIVERSIONS AND SURFACE ROUGHEN. USE AND MAINTAIN APPROPRIATE "COVER MEASURES" TO PROTECT SLOPES FROM EROSION AND AS A DUST CONTROL DIVERT UPSLOPE DRAINAGE AT TOP OF SLOPES AWAY FROM GRADING OPERATIONS. SEGREGATE OFF-SITE STORMWATER FROM ON-SITE STORMWATER AND BYPASS AS NEEDED.

NOTE:

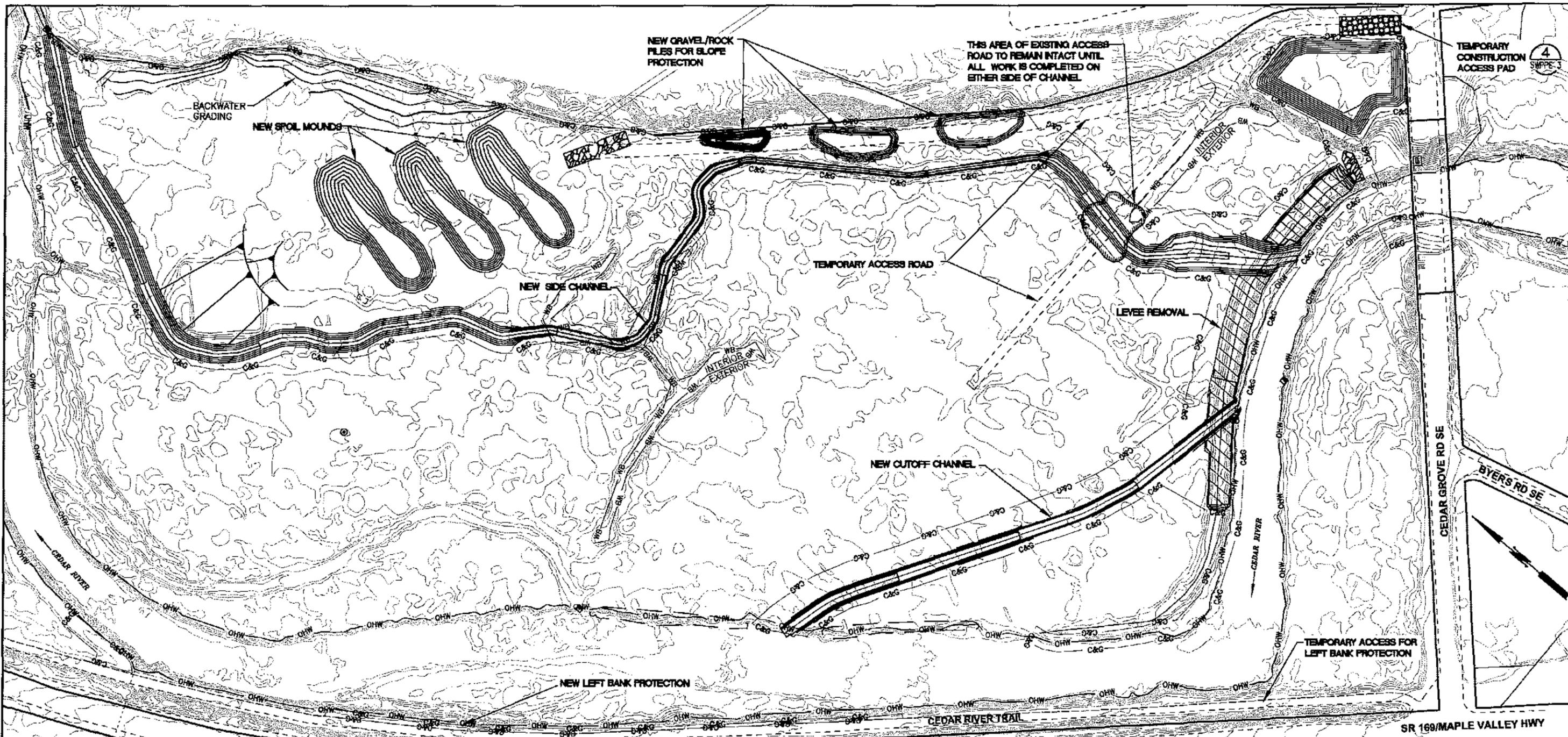
1. BIODEGRADABLE HYDRAULIC FLUID AND DIESEL FUEL WILL BE USED IN ALL EQUIPMENT OPERATING IN CRITICAL AREAS AND THEIR BUFFER.
2. NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED WITHIN THE LIMITS OF THE ORDINARY HIGH WATER OF A STREAM, AS ESTABLISHED BY THE ENGINEER, ON ANY STREAM (NEW OR EXISTING) IN THE PROJECT AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

ELEMENT REQUIREMENTS	BEST MANAGEMENT PRACTICES - (BMP's)
ELEMENT #7 "PROTECT DRAIN INLETS"	(STORMDRAIN INLET PROTECTION, INTERCEPTOR DIKE & SWALE) - ALL OPERABLE INLETS SHALL BE PROTECTED AND MAINTAINED WITH A SEDIMENT FILTERING DEVICE. SEDIMENT AND STREET WASH WATER SHALL NOT ENTER STORM DRAIN INLETS WITHOUT PRIOR TREATMENT UNLESS THE STORM DRAIN DISCHARGES TO A SEDIMENT TREATMENT FACILITY (DETENTION POND, BIOSWALE, ETC.) PRIOR TO RELEASE TO WATERS OF THE STATE. WHENEVER FEASIBLE, DIVERT STORMWATER RUNOFF AWAY FROM INLETS TO SWALES, DITCHES, TRAPS, ETC.
ELEMENT #8 "STABILIZE CHANNELS AND OUTLETS"	(CHANNEL LINING; OUTLET PROTECTION; EROSION CONTROL BLANKETS, MATTING & NETS; SODDING AND/OR PERMANENT SEEDING) - TEMPORARY ON SITE CONVEYANCE CHANNELS SHALL BE CONSTRUCTED, STABILIZED AND MAINTAINED TO PREVENT EROSION FROM THE EXPECTED 2 YEAR, 24-HOUR FREQUENCY STORM. STABILIZATION INCLUDING ARMORING MATERIAL ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAMBANKS, SLOPES AND DOWNSTREAM REACHES, SHALL BE PROVIDED AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS.
ELEMENT #9 "CONTROL POLLUTANTS"	(CONCRETE HANDLING; SAWCUTTING AND SURFACE POLLUTION PREVENTION; FUGITIVE DUST CONTROL) - ALL POLLUTANTS INCLUDING WASTE MATERIALS, DEMOLITION DEBRIS WHEEL WASH WATER, SHALL HANDLED AND DISPOSED OF IN A MANNER TO PREVENT STORMWATER CONTAMINATION. COVER, CONTAINMENT AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL EQUIPMENT, CHEMICALS, LIQUID, PETROLEUM AND INERT WASTES. ADEQUATE BMP'S SHALL BE IMPLEMENTED FOR PH MODIFYING SOURCES TO ENSURE STORMWATER DISCHARGES DO NOT CAUSE A VIOLATION OF THE WATER QUALITY STANDARD FOR PH. THESE SOURCES INCLUDE BULK CEMENT, KILN DUSTS, FLY ASH, NEW CONCRETE WASHING & CURING, CONCRETE GRINDING AND SAW CUTTING WASTE STREAMS, CONCRETE PUMPING AND MIXER WASHOUT, ETC.
ELEMENT #10 "CONTROL DE-WATERING"	(SEDIMENT TRAP; SEDIMENT BAG; SANITARY SEWER DISCHARGE W/ DISTRICT APPROVAL; TRANSPORT OFF SITE, VEGETATED FILTER STRIP; INFILTRATION) - FOUNDATION, VAULT, PILLING, TRENCH DE-WATERING AND WHEEL WASH WATER SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM PRIOR TO DISCHARGE TO A SEDIMENT POND, CLEAN, NON-TURBID DEWATERING WATER SUCH AS WELL-POINT SOURCEGROUND WATER, MAY BE DISCHARGED TO VEGETATED FILTER STRIPS OR TRIBUTARIES, PROVIDED THE DE-WATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS. CLEAN WATERS, SHOULD NOT BE ROUTED THROUGH STORMWATER SEDIMENT POND. ACCEPTABLE DISPOSAL OPTIONS INCLUDE INFILTRATION, OFF-SITE TRANSPORT, SANITARY SEWER DISCHARGE WITH DISTRICT APPROVAL, SEDIMENTATION BAG WITH OUTFALL TO VEGETATED DITCH OR SWALE FOR SMALL VOLUMES OF LOCALIZED DE-WATERING. ON SITE CHEMICAL TREATMENT OR OTHER SUITABLE TECHNOLOGIES AS D.O.E. APPROVED
ELEMENT #11 "MAINTAIN BMP'S"	TEMPORARY AND PERMANENT TESC AND POLLUTANT BMP'S SHALL BE INSTALLED PER THE PROJECT PLANS, SPECIFICATIONS AND CONTRACTING AGENCY DIRECTION. THEY SHALL BE "MAINTAINED & REPAIRED" AS NEEDED TO ENSURE THEIR CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SEDIMENT CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER A RUNOFF PRODUCING STORM EVENT DURING THE DRY SEASON AND DAILY DURING THE WET SEASON. BMP'S SHALL ONLY BE REMOVED 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED AS DIRECTED BY THE CONTRACTING AGENCY. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM THE REMOVAL OF BMP'S OR VEGETATION SHALL BE PERMANENTLY STABILIZED. A PROJECT RECORD OR LOG SHALL BE KEPT OF ALL BMP MEASURES IMPLEMENTED WITH DATES OF INSTALLATION, MAINTENANCE, STORM EVENTS, REQUIRED WATER QUALITY SAMPLING, REPAIR AND ACTION TAKEN TO PREVENT AND/OR CORRECT IMPACTS.
ELEMENT #12 "MANAGE THE PROJECT"	(PHASE CONSTRUCTION; SEASONAL WORK LIMITATIONS) - CONSTRUCTION SHALL BE PHASED WHERE FEASIBLE TO THE MAXIMUM EXTENT PRACTICABLE, THE TRANSPORT OF SEDIMENT FROM CLEARING & GRUBBING AND GRADING OPERATIONS. STABILIZATION AND MAINTENANCE SHALL BE AN INTEGRAL PART OF EACH CONSTRUCTION PHASE. THE CONTRACTING AGENCY MAY IMPOSE SEASONAL LIMITATIONS DURING THE WET SEASON (OCTOBER 1 - APRIL 30) ON CLEARING, GRUBBING AND GRADING OPERATIONS BASED ON SOILS, SLOPES, VEGETATIVE COVER, WEATHER, ETC. TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DESIGNATE THEIR CERTIFIED EROSION & SEDIMENT CONTROL PROFESSIONAL(S) WHOM SHALL BE ON-SITE OR, ON CALL AT ALL TIMES WITH AUTHORITY TO TAKE QUICK ACTION TO CORRECT AND/OR IMPLEMENT EFFECTIVE BMP'S. WHENEVER INSPECTION, MONITORING AND SAMPLING REVEALS THAT BMP'S IDENTIFIED IN THE SWPPP ARE INADEQUATE, DUE TO THE ACTUAL OR POTENTIAL DISCHARGE OF SIGNIFICANT AMOUNTS OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED AS DIRECTED BY THE CONTRACTING AGENCY. THE SWPPP SHALL BE RETAINED ON-SITE AND MODIFIED AND DOCUMENTED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE PROJECT DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE OF ANY BMP.

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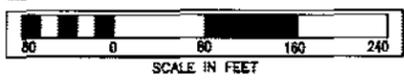
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TEMPORARY CONSTRUCTION ACCESS PAD
4
SWPP2

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES :

1. ALL WORK ON PRIVATE PROPERTY WILL BE CONSTRUCTED USING A TEMPORARY CONSTRUCTION EASEMENT. THE DRAINAGE SYSTEM ON PRIVATE PROPERTY WILL NOT BE MAINTAINED BY KING COUNTY AFTER COMPLETION OF THE PROJECT.
2. THE ESC FACILITIES MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. (KCC 9.04.020 AA, KCRS 7.09 D).
3. THE PROJECT SHALL BE SCHEDULED FOR CONSTRUCTION IN DRY CONDITIONS. IN THE EVENT OF RAINFALL, STORM WATER WILL BE PUMPED AROUND THE CONSTRUCTION AREA.
4. ALL WORK SHALL COMPLY WITH THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE HYDRAULIC PERMIT APPROVAL CONDITIONS.
5. ALL DISTURBED AREAS SHALL BE MULCHED AND SEEDDED. ALL DISTURBED AREAS ON STEEP SLOPES SHALL BE SEEDDED THEN COVERED AND STAKED IN PLACE WITH COIR FABRIC.
6. BIODEGRADABLE HYDRAULIC FLUID AND DIESEL FUEL WILL BE USED IN ALL EQUIPMENT OPERATING IN CRITICAL AREAS AND THEIR BUFFER.



SWPP LEGEND

- v — v — HIGH VISIBILITY FENCE
- SF — SF — SILT FENCE
- C&G — C&G — CLEARING AND GRADING LIMITS
- [Symbol] — STAGING/SPOILS AREA
- [Symbol] — SILT FENCE
- [Symbol] — LSSWP3

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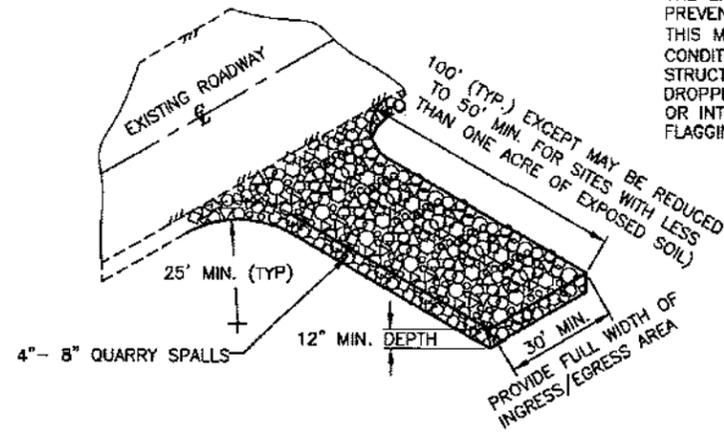
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**RAINBOW BEND
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STORMWATER POLLUTION PREVENTION PLAN
TEMPORARY EROSION AND SEDIMENT CONTROL

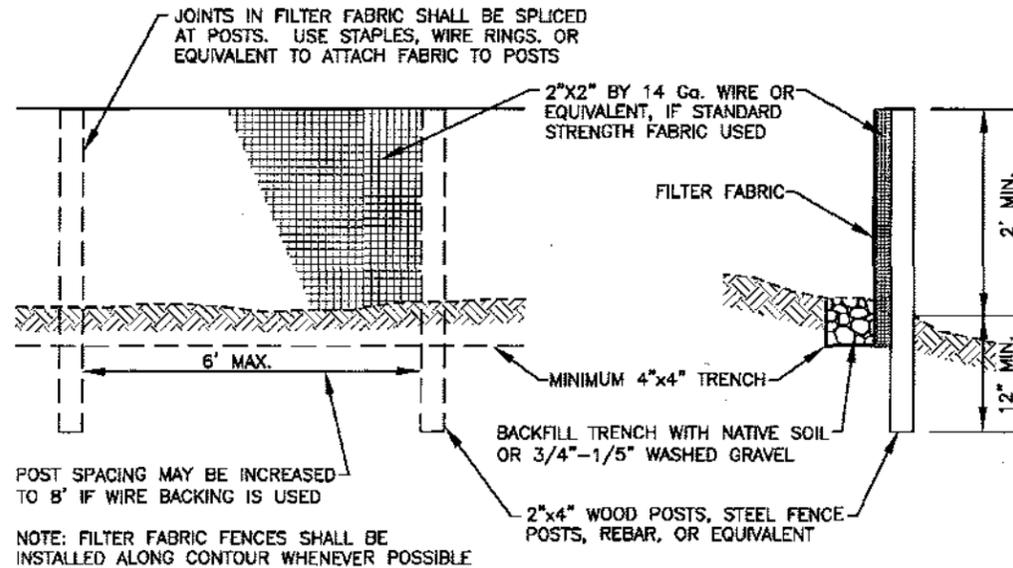
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2006-27

NOTE:
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USE TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. PROVIDE FLAGGING FOR CONSTRUCTION VEHICLES ENTERING AND LEAVING SITE.



TEMPORARY CONSTRUCTION ACCESS

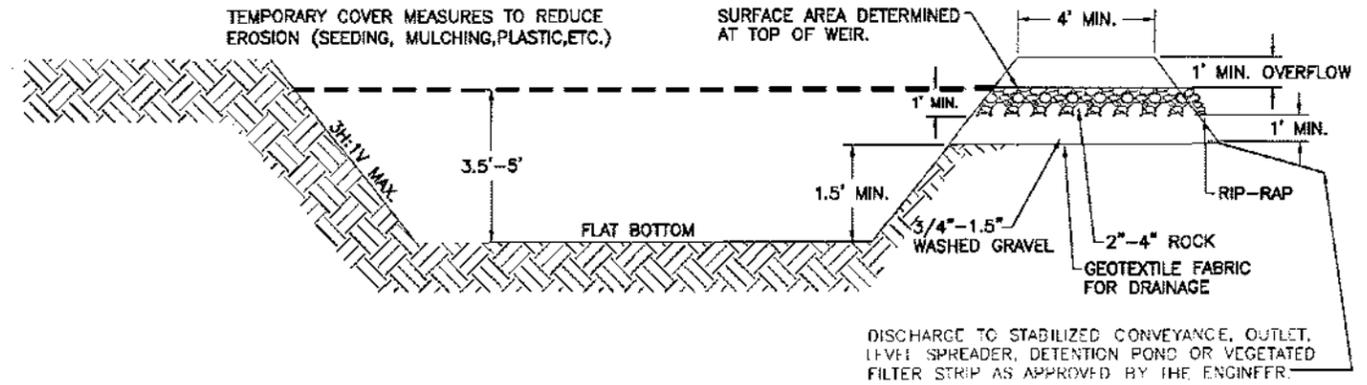
4
SWPP2



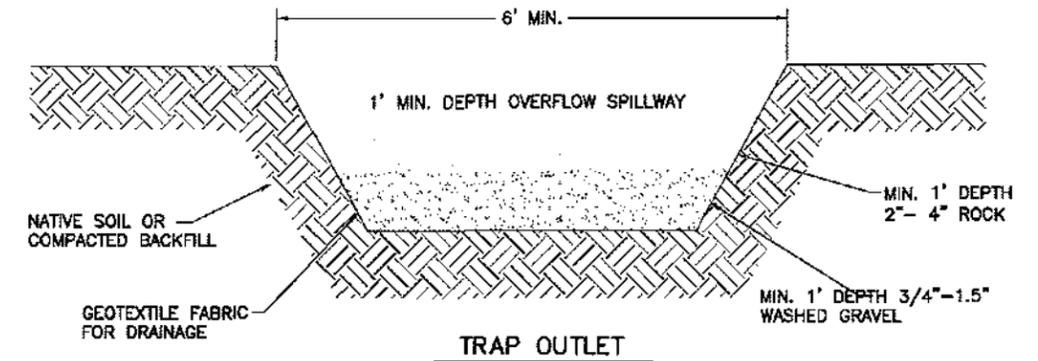
SILT FENCE DETAIL

X
SWPP2

1. MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM TOE OF SLOPE AS POSSIBLE WITHOUT ENCROACHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATIONS 8.01.3(9)A AND 8.01.3(15).
5. BIODEGRADABLE HYDRAULIC FLUID AND DIESEL FUEL WILL BE USED IN ALL EQUIPMENT OPERATING IN CRITICAL AREAS AND THEIR BUFFER.
6. NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED WITHIN THE LIMITS OF THE ORDINARY HIGH WATER OF A STREAM, AS ESTABLISHED BY THE ENGINEER, ON ANY STREAM (NEW OR EXISTING) IN THE PROJECT AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER.



CROSS SECTION



TRAP OUTLET

NTS

X
SWPP2

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:	NUM.	REVISION	BY	DATE	APPROVED: WILL R. MANSFIELD, P.E.	05/2012	FUNDING SOURCE No. 101349	PROJECT No. 1044405	CONTRACT No. TBD	King County Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit Christie True, Director	RAINBOW BEND LEVEE REMOVAL AND FLOODPLAIN RECONNECTION STORMWATER POLLUTION PREVENTION DETAILS	SHEET SWPP3 OF 15 SHEETS
	SURVEYED: K.C. LIDAR	03-2010										
SURVEY BASE MAP: K.C. LIDAR	03-2010				DESIGNED: DAN EASTMAN	05/2012						
CHECKED:					TENZING THINLEY, WILL MANSFIELD	05/2012						
	NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: L. TRAXINGER	05/2012						