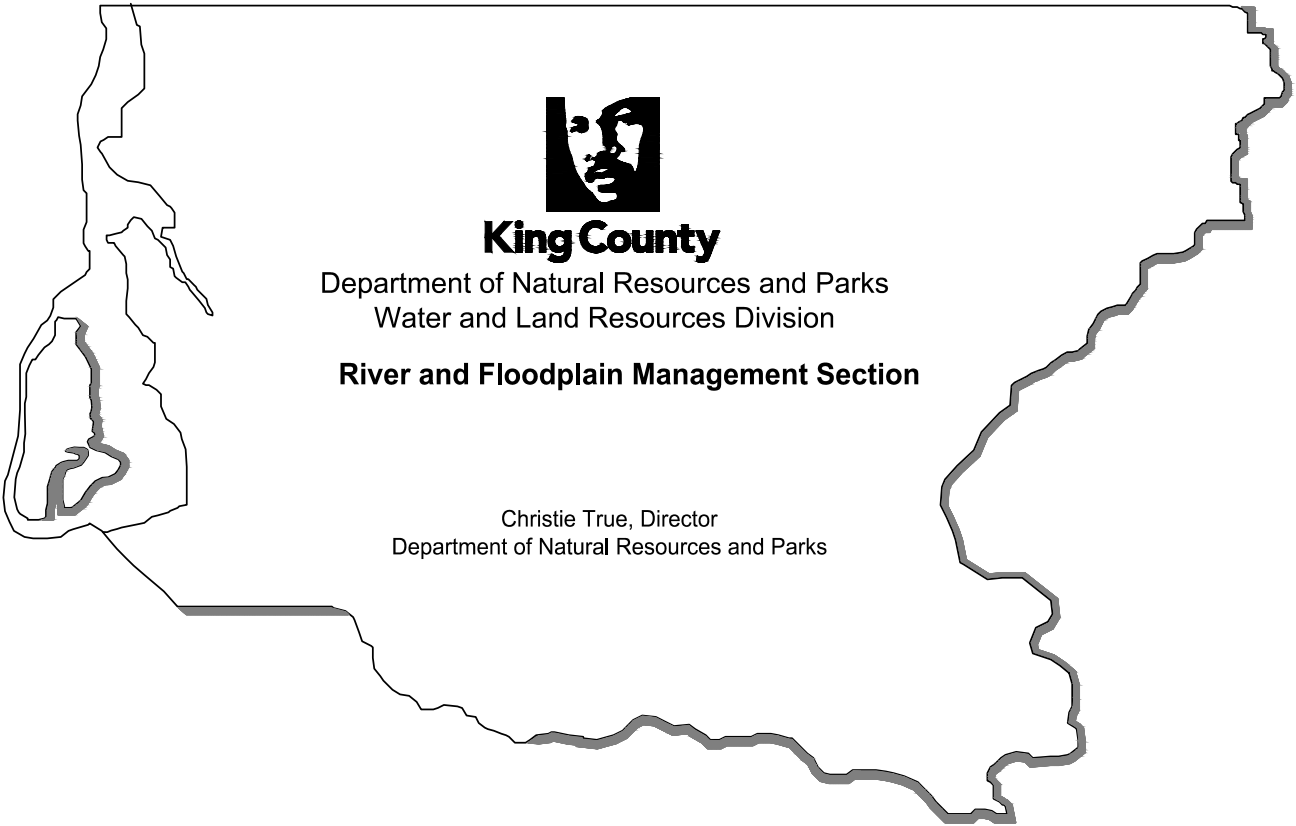
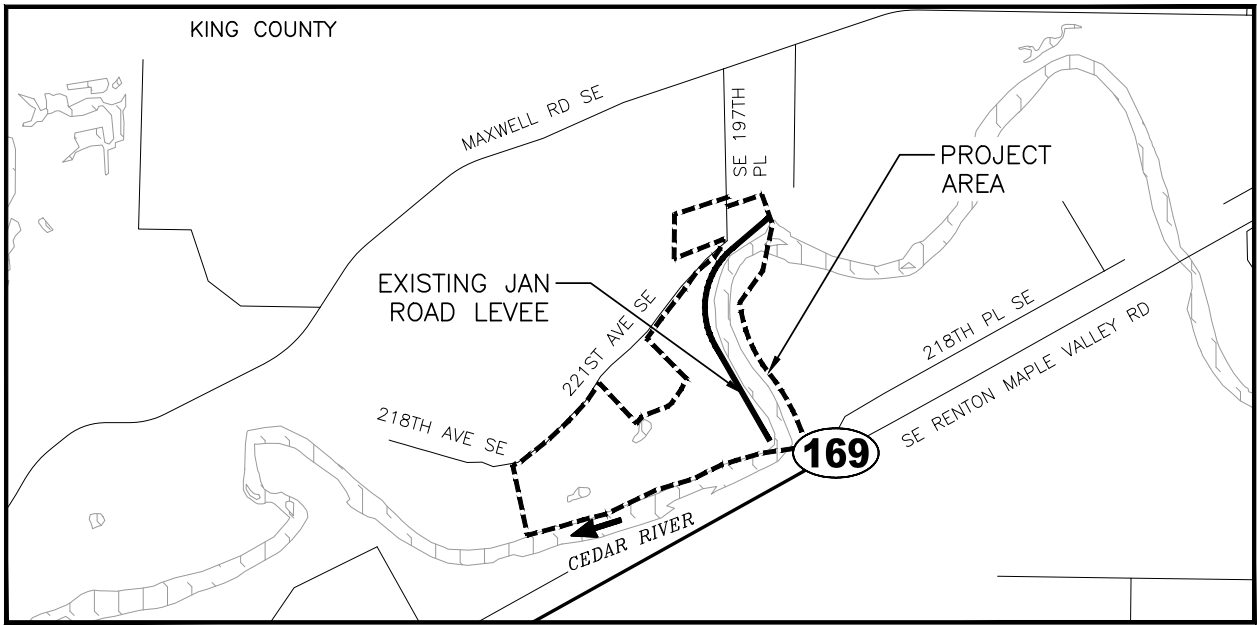
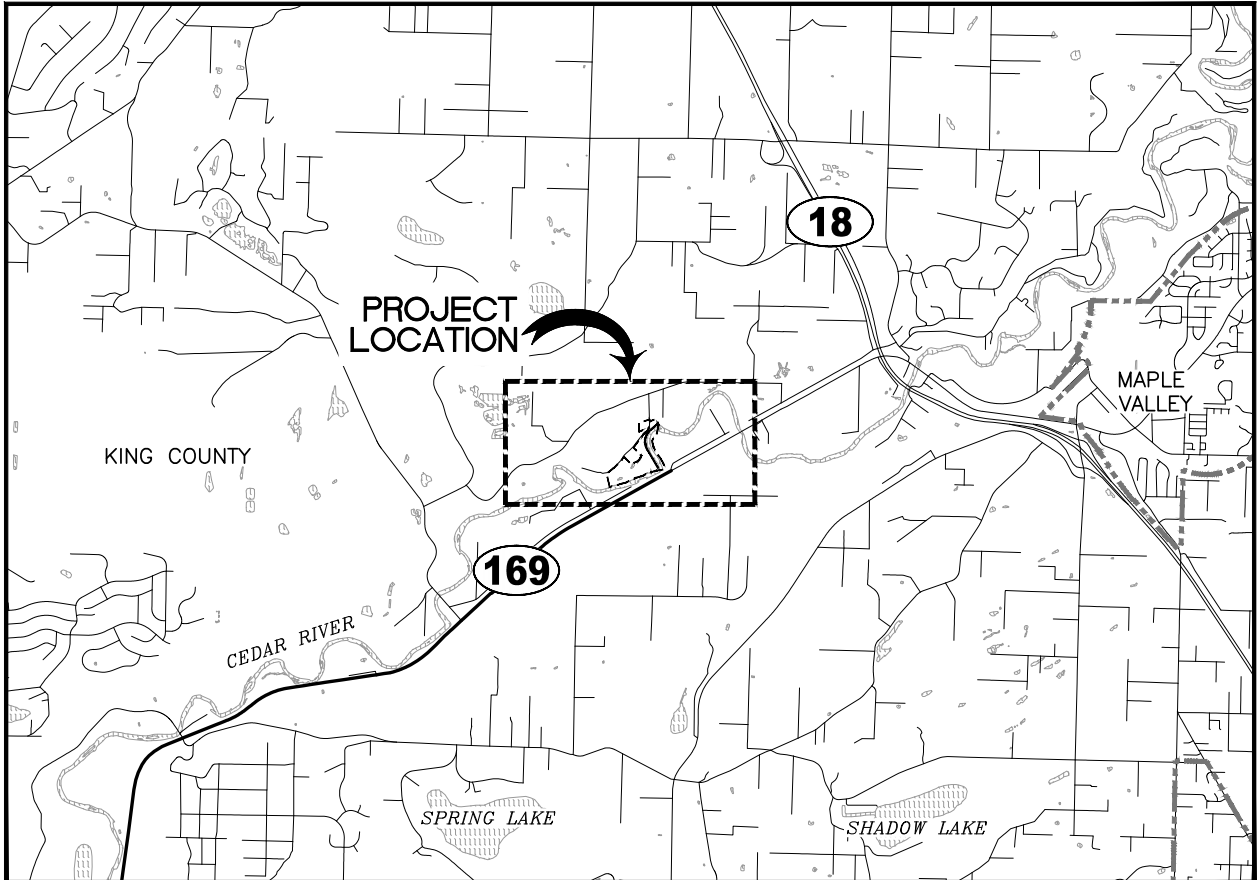


# VICINITY MAP



# JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT

## CEDAR RIVER, RIVER MILE 12.9 - 13.4

### 47.427 N. LAT., -122.050 W. LONG.



ONE INCH  
AT FULL SCALE  
IF NOT ONE INCH  
SCALE ACCORDINGLY



VERTICAL: NAVD 1988  
HORIZONTAL: NAD 1983/1991

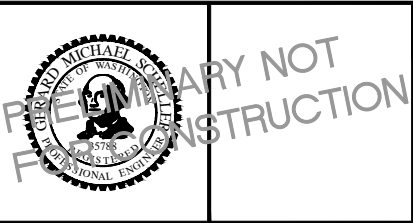
NUM.	REVISION	BY	DATE
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	RECORD CHANGES APPROVED		
NUM.	REVISION	BY	DATE

APPROVED:	CHRIS BRUMMER, PE
PROJECT MANAGER:	DAN HECKENDORF, PE
PROJECT ECOLOGIST:	THOMAS BANNISTER, PWS
DESIGNED:	JERRY SCHELLER, PE
REVIEWED:	KEVEN AXT, PE
CAD DESIGN:	ALEX BUESCHER, EIT

FUNDING SOURCE No.	---
PROJECT No.	1131550
CONTRACT No.	E00599E19

**TETRA TECH**

www.tetratech.com  
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**King County**

Department of Natural Resources and Parks  
Water and Land Resources Division  
River and Floodplain Management Section

Christie True, Director

JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT	SHEET 1 OF 22 SHEETS
COVER SHEET AND VICINITY MAP	GN1



GENERAL NOTES

1. ANY ORDINARY HIGH WATER MARKS AND WETLAND DELINEATIONS SHOWN ON THESE PLANS HAVE BEEN MARKED IN THE FIELD AND REVIEWED BY KING COUNTY PWS. THE FLAGGED LOCATIONS HAVE BEEN LOCATED BY PGS, INC.
2. CONTRACTOR SHALL VERIFY EXISTING SITE FEATURES AND DISCUSS POSSIBLE CONSTRUCTION CONFLICTS WITH PROJECT REPRESENTATIVE PRIOR TO START OF WORK.
3. CONTRACTOR SHALL SUBMIT FOR APPROVAL A CONSTRUCTION SEQUENCING PLAN 10 DAYS PRIOR TO SITE WORK.
4. EQUIPMENT AND MATERIAL STAGING AREAS TO BE LOCATED AS SHOWN ON THE SITE PLAN. EQUIPMENT AND MATERIAL SHALL NOT BE STORED OUTSIDE THE IDENTIFIED STAGING AREA EXTENTS, UNLESS APPROVED BY PROJECT REPRESENTATIVE.
5. CONTRACTOR SHALL LIMIT MACHINERY MOVEMENT AND DISTURBANCE TO STAGING AREAS OR TEMPORARY ACCESS CORRIDORS, AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE PROJECT REPRESENTATIVE.
6. CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE TO THE PROJECT REPRESENTATIVE PRIOR TO ANY REQUIRED INSPECTION.
7. FIELD VERIFY WITH PROJECT REPRESENTATIVE ALL ENGINEERED LOG JAM LOCATIONS, LENGTHS, WIDTHS, AND ELEVATIONS PRIOR TO EXCAVATION, ASSEMBLY, AND INSTALLATION OF EACH STRUCTURE.
8. CONTRACTOR SHALL SALVAGE ALL LIVING CONIFERS WITH A DBH OF 2 TO 6 INCHES WITH THE CONSTRUCTION LIMITS AND STAGE FOR REPLANTING. CONTRACTOR SHALL REPLANT CONIFERS WITHIN DISTURBED ELJ FOOTPRINT FOLLOWING COMPLETION OF ELJ CONSTRUCTION.
9. CONTRACTOR SHALL SALVAGE ALL TREES WITH DBH GREATER THAN 10 INCHES WITHIN CLEARED AREAS FOR USE IN ELJ STRUCTURES AS RACKING. SMALLER VEGETATED DEBRIS IN CLEARED AREA NOT CONTAINING NOXIOUS WEEDS OR INVASIVE PLANTS SHALL BE SALVAGED FOR USE IN ELJ STRUCTURES AS SLASH AS APPROVED BY THE PROJECT REPRESENTATIVE.
10. ALL EXISTING SITE FEATURES NOT SPECIFIED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
11. EXISTING UTILITIES SHOWN ON SHEET GN4.

SHEET INDEX

SHEET	PAGE	DESCRIPTION
1	GN1	COVER SHEET AND VICINITY MAP
2	GN2	NOTES AND SHEET INDEX
3	GN3	LEGEND AND ABBREVIATIONS
4	GN4	EXISTING SITE PLAN AND SURVEY CONTROL
5	SP1	SITE PLAN AND KEY SHEET
6	EC1	TESC AND ACCESS PLAN 1
7	EC2	TESC AND ACCESS PLAN 2
8	EC3	TESC AND WATER MANAGEMENT NOTES DETAILS
9	EC4	TESC NOTES
10	LR1	LEVEE EXCAVATION PLAN AND PROFILE 1
11	LR2	LEVEE EXCAVATION PLAN AND PROFILE 2
12	LS1	SITE PLAN AND PROFILE FOR SETBACK LEVEE AND ENGINEERED LOG STRUCTURES 1
13	LS2	SITE PLAN AND PROFILE FOR SETBACK LEVEE AND ENGINEERED LOG STRUCTURES 2
14	LS3	SITE PLAN AND PROFILE FOR SETBACK LEVEE AND ENGINEERED LOG STRUCTURES 3
15	LS7	SETBACK LEVEE DETAILS
16	SC1	PRIMARY SIDE CHANNEL PLAN AND PROFILE 1
17	SC2	PRIMARY SIDE CHANNEL PLAN AND PROFILE 2
18	SC3	SECONDARY SIDE CHANNEL PLAN AND PROFILE
19	C2	CULVERT PLAN AND PROFILE
20	EW12	WOOD DETAILS
21	L4	PLANTING PLAN 1
22	L5	PLANTING PLAN 2

SUGGESTED CONSTRUCTION SEQUENCE:

1. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES PRIOR TO CLEARING AND GRUBBING ACTIVITIES.
2. INSTALL HIGH-VISIBILITY FENCING.
3. ESTABLISH CLEARING LIMITS.
4. INSTALL TESC BMPS AS FEASIBLE. BE AWARE THAT SOME TESC BMPS WILL NOT BE POSSIBLE TO INSTALL UNTIL CERTAIN FEATURES ARE CONSTRUCTED.
5. PERFORM FLOODPLAIN CLEARING AND GRADING ACTIVITIES.

5.1. EXCAVATE THE EXISTING JAN ROAD LEVEE ABOVE THE OHWM. STOCKPILE EXISTING BANK ARMORING MATERIAL ONSITE AS APPROVED BY THE ENGINEER FOR REUSE AS SCOUR COUNTERMEASURES. STOCKPILE EXCAVATED LEVEE FILL MATERIAL ONSITE MEETING THE PROPOSED LEVEE FILL SPECIFICATIONS AND APPROVED BY THE ENGINEER FOR REUSE FOR LEVEE CONSTRUCTION.

5.2. EXCAVATE PRIMARY AND SECONDARY SIDE CHANNELS, INSTALL CHANNEL WOOD, AND STABILIZE CHANNEL SLOPES EXCEPT FOR A 20-FOOT SECTION AT THE UPSTREAM AND DOWNSTREAM CONNECTION TO THE CEDAR RIVER.

5.3. EXCAVATE AND INSTALL SCOUR COUNTERMEASURES AT THE TOE OF THE SETBACK LEVEE.

5.4. CONSTRUCT SETBACK LEVEE.
6. CONSTRUCT TEMPORARY RIVER CROSSING AT STATION LR 11+40 PERPENDICULAR TO RIVER CHANNEL.

6.1. ISOLATE WORK AREA WITH BULK BAG COFFERDAM.

6.2. ESTABLISH CLEARING LIMITS AND EROSION CONTROL BMPs.

6.3. CONSTRUCT BANK DEFLECTOR.

6.4. REMOVE EROSION CONTROL BMPs.

6.5. REMOVE BULK BAG COFFERDAM

6.6. REMOVE TEMPORARY RIVER CROSSING.
7. REMOVE RIPRAP FROM EXISTING LEVEE BELOW OHWM AT THE START OF THE IN-WATER WORK WINDOW.

7.1. INSTALL THE BULK BAG COFFERDAMS.

7.2. EXCAVATE THE UPSTREAM AND DOWNSTREAM SECTION OF THE PRIMARY CHANNEL. DIVERT RIVER FLOW INTO THE PRIMARY CHANNEL TO ISOLATE REMAINING EXCAVATION.

7.3. EXCAVATE THE ARMOR ROCK IN THE REMAINDER OF THE EXISTING LEVEE IN APPROXIMATELY 200 LF INCREMENTS BEGINNING FROM THE UPSTREAM END OF THE PROJECT.

7.4. RELOCATE BULK BAG COFFERDAMS AS NEEDED TO ISOLATE THE ARMOR ROCK REMOVAL WORK FROM THE CEDAR RIVER.

7.5. INSTALL LARGE WOOD STRUCTURES AT RM XX.X AND XX.X WHEN REACH IS DEWATERED FOR ARMOR ROCK REMOVAL.

7.6. REMOVE BULK BAG ISOLATION AFTER ARMOR ROCK REMOVAL IS COMPLETE.
8. REMOVE TESC BMPS.
9. REMOVE HIGH-VISIBILITY FENCING.
10. REMOVE STABILIZED CONSTRUCTION ENTRANCES AND REMAINING DRIVEWAY ASPHALT.
11. INSTALL PLANTINGS FOR SITE RESTORATION.

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Professional Engineer

Richard Michael Scheller

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PRELIMINARY NOT FOR CONSTRUCTION

King County

Department of Natural Resources and Parks

Water and Land Resources Division

River and Floodplain Management Section

Christie True, Director

JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT

NOTES AND SHEET INDEX

SHEET 2 OF 22 SHEETS

GN2



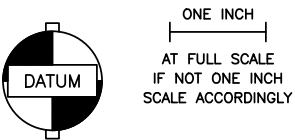
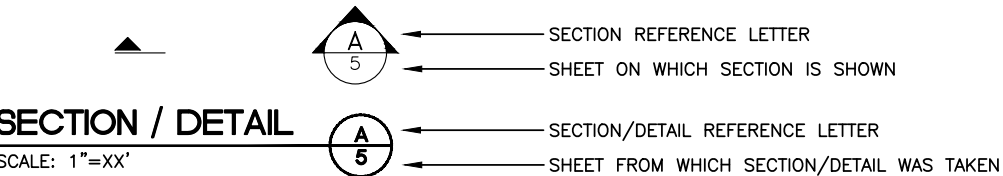
LEGEND

<b>EXISTING</b>		<b>LARGE WOOD</b>		<b>GAS/POWER/TELEPHONE</b>	
	EXISTING MAJOR CONTOUR			<b>SYMBOL</b>	<b>DESCRIPTION</b>
	EXISTING MINOR CONTOUR		BIOREVETMENT TYPE 1	EXIST.    CONSTRUCT	
	RIGHT OF WAY				POWER POLE
	PROPERTY LINE – ASSESSOR		BIOREVETMENT TYPE 2		
	PROPERTY LINE – SURVEYED			<b>SURVEY</b>	
	EXISTING RIP RAP			<b>SYMBOL</b>	<b>DESCRIPTION</b>
	EXISTING OVERHEAD POWER			EXIST.    CONSTRUCT	
<b>TESC</b>			BIOREVETMENT RIPRAP		SURVEY CONTROL POINT
	CLEARING AND GRUBBING LIMITS				RIVER 1/10TH MILE MARKER
	HIGH VISIBILITY FENCE				SOIL BORING
	BULK BAG ISOLATION DAM				MONITORING WELL
	COMPOST SOCK				TEST PIT
	ORDINARY HIGH WATER		ENGINEERED LOGJAM (ELJ) (TYPE 1)	<b>DRAINAGE</b>	
	SILT FENCE			<b>SYMBOL</b>	<b>DESCRIPTION</b>
	TURBIDITY CURTAIN		ENGINEERED LOGJAM (ELJ) (TYPE 2)	EXIST.    CONSTRUCT	
	REMOVE EXISTING FEATURE				STORM DRAIN CATCH BASIN (GRATE LID)
	WETLAND BOUNDARY		ENGINEERED LOGJAM (ELJ) (TYPE 3)		STORM PIPE
	WOOD SLASH MULCH BERM				STORM DRAIN CULVERT
	EROSION CONTROL BLANKET		ENGINEERED LOGJAM (ELJ) (TYPE 4)		
	EXISTING TREE TO BE PROTECTED				
	EXISTING TREE TO BE REMOVED		ENGINEERED LOGJAM (ELJ) (TYPE 5)		
	TEMPORARY PUMP BYPASS				
	SITE ACCESS CORRIDOR				
	TEMPORARY ACCESS CORRIDOR				
	TEMPORARY STAGING AND STOCKPILE AREA				
	CONSTRUCTION WARNING SIGN				
<b>NEW</b>					
	MAJOR CONTOUR				
	MINOR CONTOUR				
	CUT LINE				
	FILL LINE				
	LEVEE ACCESS GATE				
	CSBC (PLAN VIEW)				
	CULVERT				
	CSBC (SECTION VIEW)				
	TOPSOIL (SECTION VIEW)				
	SELECT FILL				
	CORE FILL				

ABBREVIATIONS:

AVE	AVENUE	N	NORTH / NORTHING
BLDG	BUILDING	NAD83	NORTH AMERICAN DATUM, 1983
BMP(s)	BEST MANAGEMENT PRACTICE(S)	NAV88	NORTH AMERICAN VERTICAL DATUM, 1988
CLV	CULVERT	O.C.	ON CENTER
CSBC	CRUSHED SURFACING BASE COURSE	OHWM	ORDINARY HIGH WATER MARK
CSS	CHANNEL SPANNING STRUCTURE	PGS	PACIFIC GEOMATIC SERVICES
CSWPPP	CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN	PSC	PRIMARY SIDE CHANNEL
DBH	DIAMETER BREAST HEIGHT	R	RADIUS
E	EAST / EASTING	S.R.	STATE ROUTE
ELEV	ELEVATION	SE	SOUTHEAST
ELJ	ENGINEERED LOG JAM	SSC	SECONDARY SIDE CHANNEL
FG	FINISHED GRADE	STA	STATION
FT	FEET	TBD	TO BE DETERMINED
GAL	GALLON	TESC	TEMPORARY EROSION AND SEDIMENT
HPA	HYDRAULIC PROJECT APPROVAL	CONTROL	TYP
IE	INVERT ELEVATION	TYP	TYP
INTX	INTERSECTION	U.S.	UNITED STATES
INC	INCORPORATED	WAC	WASHINGTON ADMINISTRATIVE CODE
KCRDCS	KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS	WDFW	WASHINGTON DEPARTMENT OF FISH AND WILDLIFE
KCSWDM	KING COUNTY SURFACE WATER DESIGN MANUAL	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
LF	LINEAR FEET	WSEL	WATER SURFACE ELEVATION
LR	LEVEE EXCAVATION	YR	YEAR
LS	SETBACK LEVEE		
MEG	MATCH EXISTING GRADE		

DRAWING REFERENCE:



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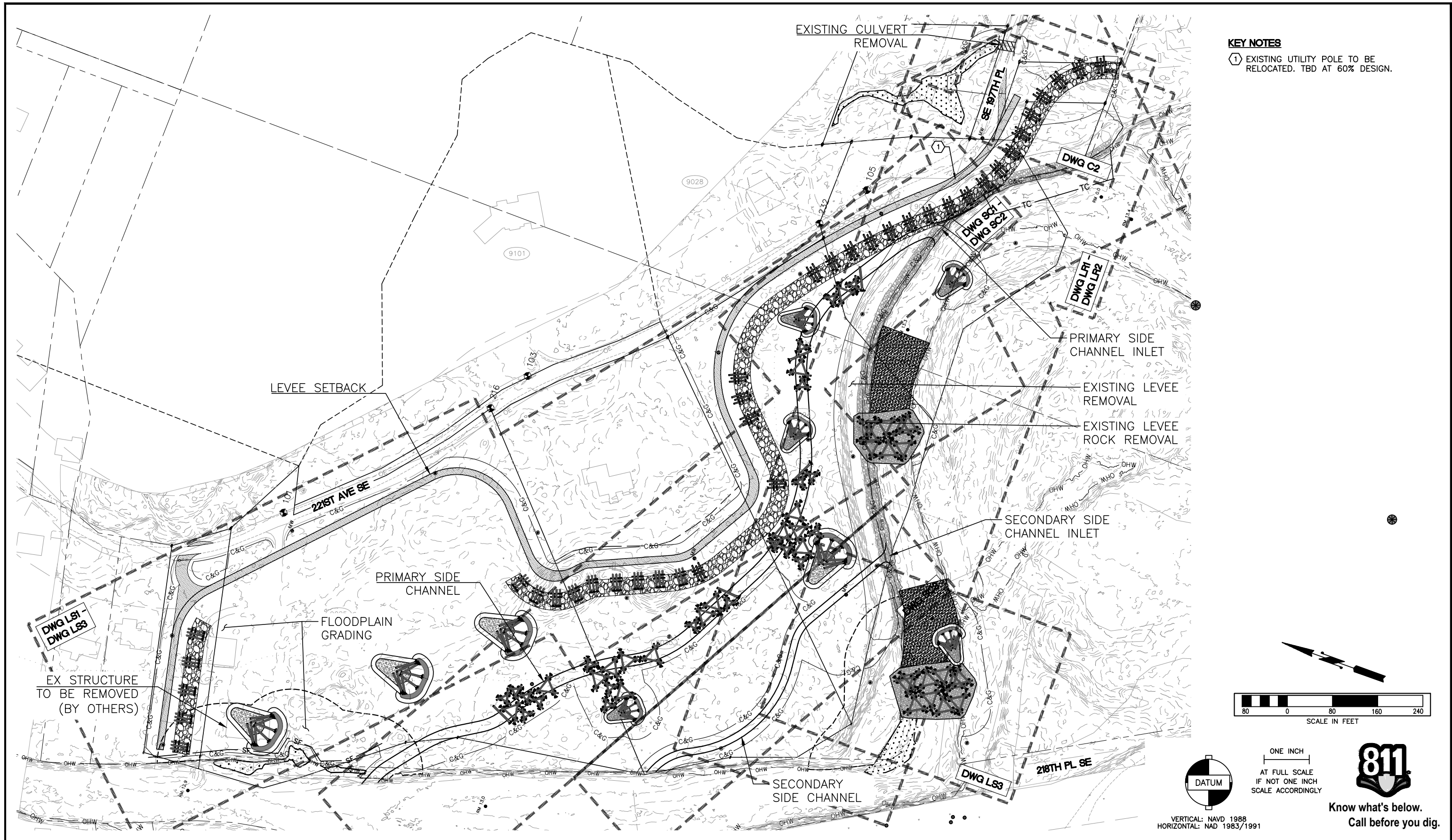
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NUM.		REVISION		BY		DATE		APPROVED: CHRIS BRUMMER, PE		FUNDING		 <b>TETRA TECH</b> www.tetrattech.com 1420 Fifth Avenue, Suite 650 Seattle, Washington 98101 Phone: 206-883-9300 Fax: 206-883-9301				 <b>King County</b> Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section  Christie True, Director		JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT		SHEET <b>3</b> OF <b>22</b> SHEETS	
						PROJECT MANAGER: DAN HECKENDORF, PE		SOURCE No. ---													
						PROJECT ECOLOGIST: THOMAS BANNISTER, PWS		PROJECT No. 1131550													
						DESIGNED: JERRY SCHELLER, PE		CONTRACT No. E00599E19													
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					PROJECT ECOLOGIST: THOMAS BANNISTER, PWS		CONTRACT No. E00599E19		OF							
					DESIGNED: JERRY SCHELLER, PE				22							
							REVIEWED: KEVEN AXT, PE						SITE PLAN AND KEY SHEET		SHEETS	
							CAD DESIGN: ALEX BUESCHER, EIT									
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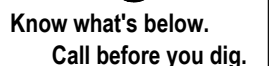










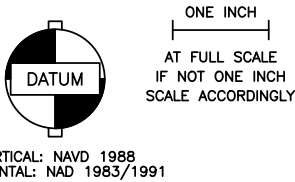





TESC AND ACCESS NOTES

1. ALL TESC MEASURES SHALL COMPLY WITH THE KING COUNTY SWDM, SWPPP, AND WQMP.
2. THE TESC FACILITIES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED CHANGING SITE CONDITIONS.
3. THE IMPLEMENTATION OF TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS FINISHED AND THE CONSTRUCTION SITE IS STABILIZED.
4. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. THE TESC FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING, GRUBBING, AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
6. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CSWPPP SUPERVISOR AND MAINTAINED AS NECESSARY FOR PROPER FUNCTION.
7. ALL IN-RIVER WATER WORK SHALL COMPLY WITH THE WDFW HPA CONDITIONS AND OTHER PERMIT CONDITIONS. THE CONTRACTOR SHALL MAINTAIN WATER QUALITY STANDARDS AT ALL TIME.
8. EQUIPMENT USED FOR THE PROJECT SHALL BE FREE OF EXTERNAL PETROLEUM-BASED PRODUCTS WHILE WORKING NEAR ANY SURFACE WATER OR WETLANDS. ACCUMULATION OF SOILS OR DEBRIS SHALL BE REMOVED FROM THE DRIVE MECHANISMS (WHEELS, TRACKS, TIRES, ETC.) AND UNDERCARRIAGE OR EQUIPMENT PRIOR TO ITS WORKING BELOW THE BANKFULL WATER ELEVATION.
9. EQUIPMENT SHALL BE CHECKED DAILY FOR LEAKS, AND ANY NECESSARY REPAIRS SHALL BE COMPLETED PRIOR TO COMMENCING WORK ACTIVITIES. SPILL KITS SHALL BE ACCESSIBLE AT ALL TIMES TO EQUIPMENT OPERATORS.
10. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, SEDIMENTS, SEDIMENT-LADEN WATER, CHEMICALS, OR ANY OTHER TOXIC OR DELETERIOUS MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO THE RIVER, GROUNDWATER, OR WETLANDS.
11. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTE PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
12. IF AT ANY TIME, AS A RESULT OF PROJECT ACTIVITIES, FISH ARE OBSERVED IN DISTRESS, A FISH KILL OCCURS, OR WATER QUALITY PROBLEMS DEVELOP (INCLUDING EQUIPMENT LEAKS OR SPILLS), OPERATIONS SHALL CEASE AND THE PROJECT REPRESENTATIVE NOTIFIED IMMEDIATELY. WASHINGTON DEPARTMENT OF FISH AND WILDLIFE AND WASHINGTON DEPARTMENT OF ECOLOGY SHALL BE CONTACTED IMMEDIATELY BY THE PROJECT REPRESENTATIVE OR BY HIS/HER DESIGNEE. WORK SHALL NOT RESUME UNTIL FURTHER APPROVAL BY THE PROJECT REPRESENTATIVE.
13. EROSION CONTROL METHODS SHALL BE USED TO PROTECT WATERS OF THE STATE. MEASURES SHOWN ON THE DRAWINGS ARE INITIAL AND ADDITIONAL MEASURES MAY BE REQUIRED BASED ON MEANS AND METHODS.
14. ALTERATION OR DISTURBANCE OF THE BANK AND BANK VEGETATION SHALL BE MINIMIZED TO THAT NECESSARY FOR THE PROJECT.
15. IF HIGH FLOW CONDITIONS THAT MAY CAUSE SILTATION OR EROSION ARE ENCOUNTERED DURING CONSTRUCTION, WORK SHALL STOP UNTIL THE FLOW SUBSIDES.
16. CONTRACTOR SHALL INSTALL WORK AREA ISOLATION INCLUDING BUT NOT LIMITED TO BULKBAGS, BLADDER DAMS, TURBIDITY CURTAIN OR APPROVED EQUAL PRIOR TO ANY INWATER WORK. CONTRACTOR SHALL NOTIFY PROJECT REPRESENTATIVE TWO WORKING DAYS PRIOR TO ANY WORK AREA ISOLATION TO ALLOW OWNER FISH RESCUE CREWS TO MOBILIZE AND PERFORM FISH RESCUE FROM ISOLATED AREAS. CONTRACTOR SHALL ANTICIPATE UP TO 32 HOURS OF FISH RESCUE FOR ISOLATED AREAS.
17. EXCAVATIONS THAT HAVE THE POTENTIAL TO IMPACT THE WETTED CHANNEL OF THE CEDAR RIVER SHALL BE ISOLATED FROM THE ACTIVE CHANNEL DURING CONSTRUCTION. ISOLATION MEANS SHALL CONSIST OF TURBIDITY CURTAINS, BULK BAGS, BLADDER DAMS OR APPROVED EQUAL AS NECESSARY TO PREVENT IMPACTS TO WATER QUALITY.
18. CONTRACTOR SHALL LOCALLY GRADE RIVER BANK AS NEEDED FOR ACCESS. CONTRACTOR SHALL RESTORE ALL GRADES AND SEED DISTURBED AREAS AS PART OF SITE RESTORATION.
19. CONTRACTOR SHALL ENSURE EXCAVATOR BUCKET IS CLEAN/FREE OF SILTY OR CLAYEY SEDIMENT PRIOR TO INWATER WORK.
20. ALL STOCKPILED MATERIAL SHALL BE STAGED AND MAINTAINED WITH THE CONSTRUCTION LIMITS SHOWN ON THE PLANS.
21. EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN CONSECUTIVE DAYS SHALL BE IMMEDIATELY STABILIZED WITH ESC MEASURES (E.G. SEEDING, MULCHING, PLASTIC COVERING).

22. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH AREAS CAN BE SEEDED IN PREPARATION FOR WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.
23. ESC FACILITIES SHALL BE INSPECTED AND MAINTAINED WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
24. AT COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL BACKBLADE TO MATCH EXISTING GRADE AND REPAIR SOFT SPOTS BY REPLACING SUITABLE NATIVE MATERIAL.
25. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
26. ALL TREES NOT SPECIFIED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.

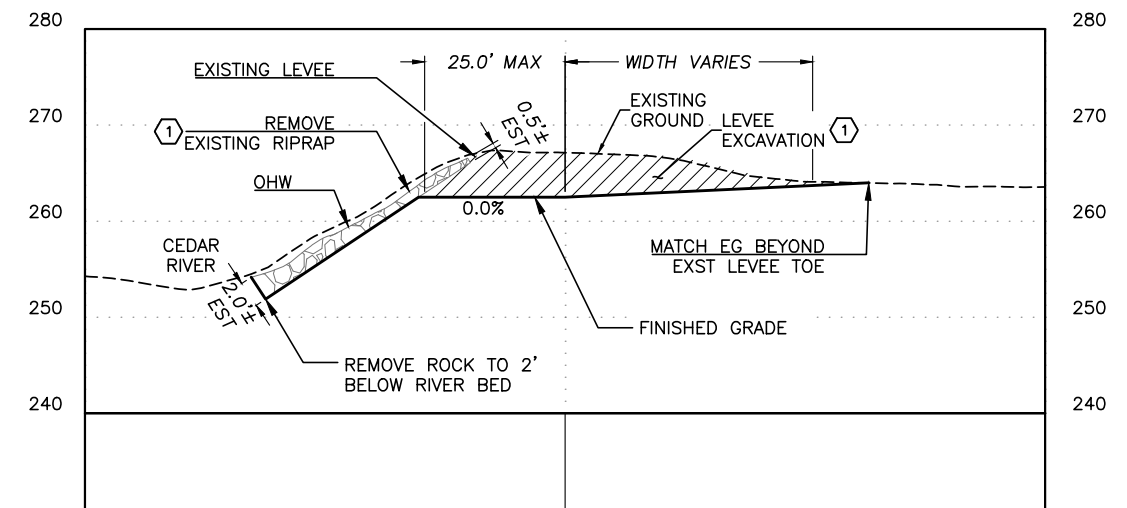


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				PROJECT No. 1131550								
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NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: KEVEN AXT, PE							TESC NOTES	<b>EC4</b>
				CAD DESIGN: ALEX BUESCHER, EIT								



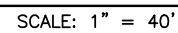




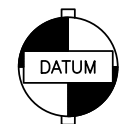


## KEY NOTES

- 1 HAUL EXCAVATED MATERIAL TO STOCKPILE.
- 2 SEE SHEET SP1 FOR SHEET LAYOUT.






SCALE: HORIZ. 1" = 40', VERT. 1" = 10'



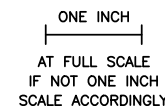
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NUM.      REVISION <div style="text-align: center;"> <b>30% PROGRESS COPY 3/31/2021</b> </div>		BY      DATE      	APPROVED: CHRIS BRUMMER, PE PROJECT MANAGER: DAN HECKENDORF, PE PROJECT ECOLOGIST: THOMAS BANNISTER, PWS DESIGNED: JERRY SCHELLER, PE  REVIEWED: KEVEN AXT, PE CAD DESIGN: ALEX BUESCHER, EIT	FUNDING SOURCE No.      -- PROJECT No.      1131550 CONTRACT No.      E00599E19	<div style="text-align: center;">  <b>TETRA TECH</b>  <a href="http://www.tetrattech.com">www.tetrattech.com</a>          1420 Fifth Avenue, Suite 650          Seattle, Washington 98101          Phone: 206-883-8300 Fax: 206-883-8301       </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;">  <b>King County</b>          Department of Natural Resources and Parks          Water and Land Resources Division          River and Floodplain Management Section    <i>Christie True, Director</i> </div>	<div style="text-align: center;"> <b>JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT</b>    <b>LEVEE EXCAVATION PLAN AND PROFILE 2</b> </div>	SHEET <div style="text-align: center;"> <b>11</b> OF <b>22</b> SHEETS         </div>	<div style="text-align: center;"> <b>LR2</b> </div>
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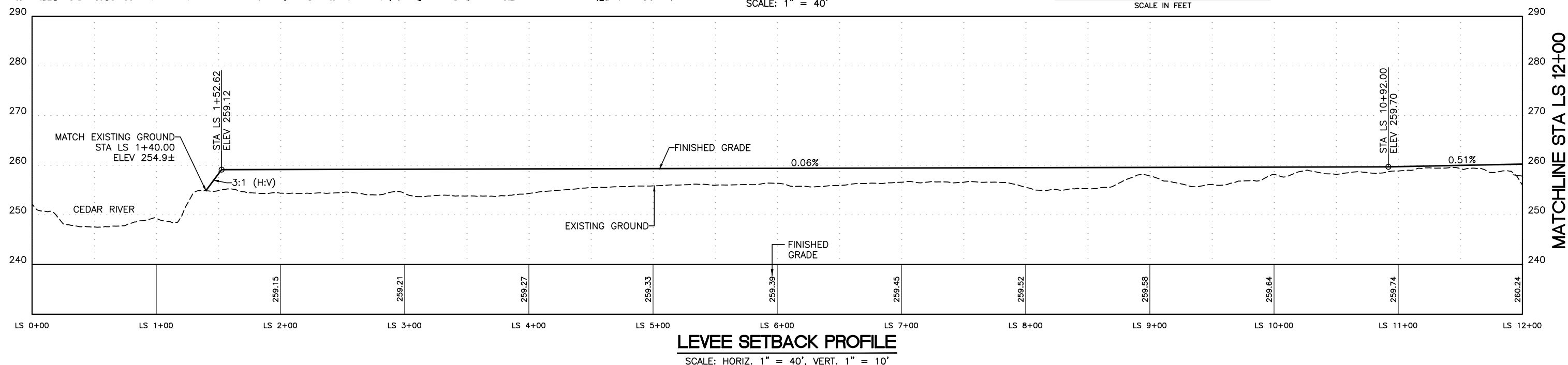
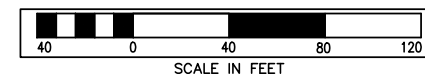







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## KEY NOTES

- 1 PROTECT EXISTING UTILITY POLE
- 2 INSTALL LEVEE ACCESS GATE (PROVIDED WITH 60% SUBMITTAL)
- 3 LEVEE ACCESS ROAD SHALL BE 8" CRUSHED SURFACING BASE COURSE. SEE SECTION A, SHEET LS7.
- 4 GRADE TO MATCH EXISTING GRADE AT A FLAT SLOPE (MATCH ELEVATION 254.00)
- 5 SEE SHEET SP1 FOR SHEET LAYOUT.

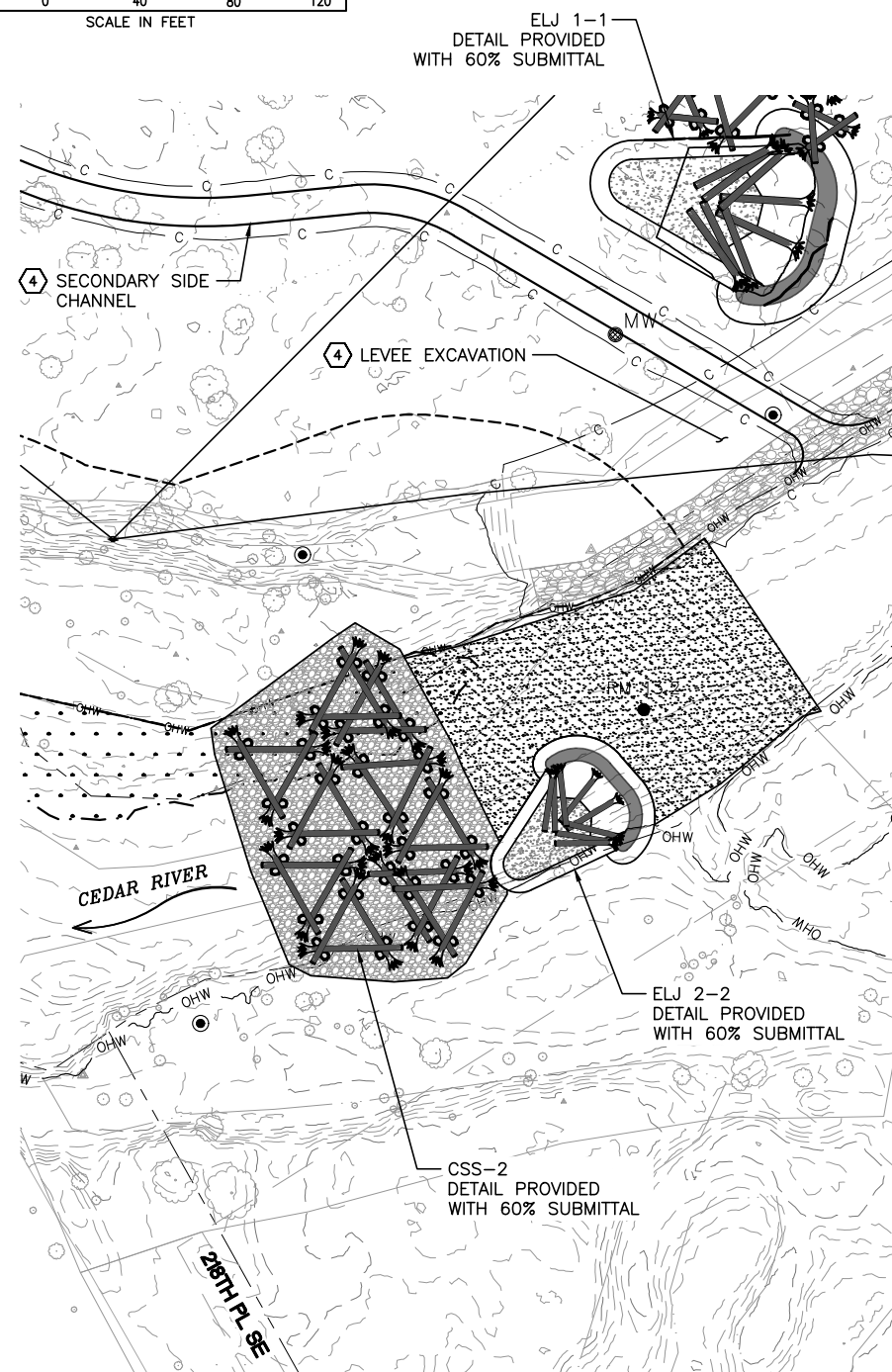
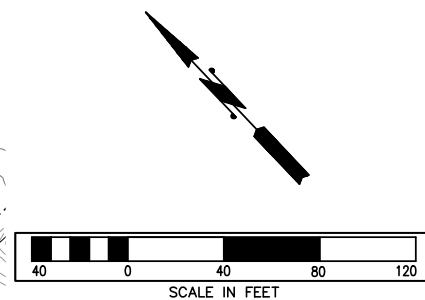
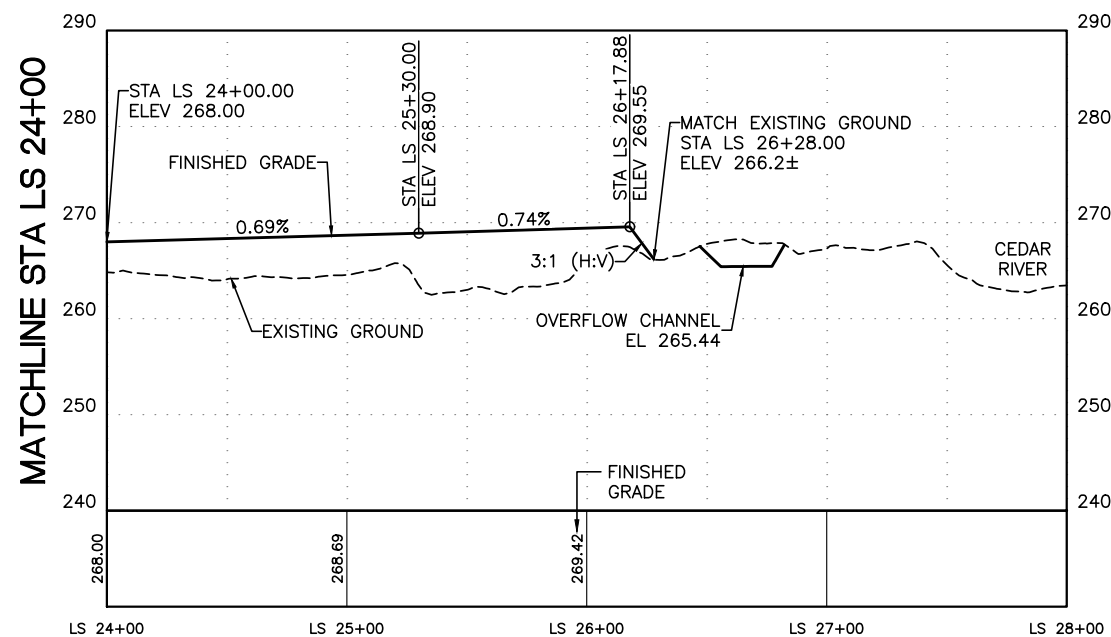
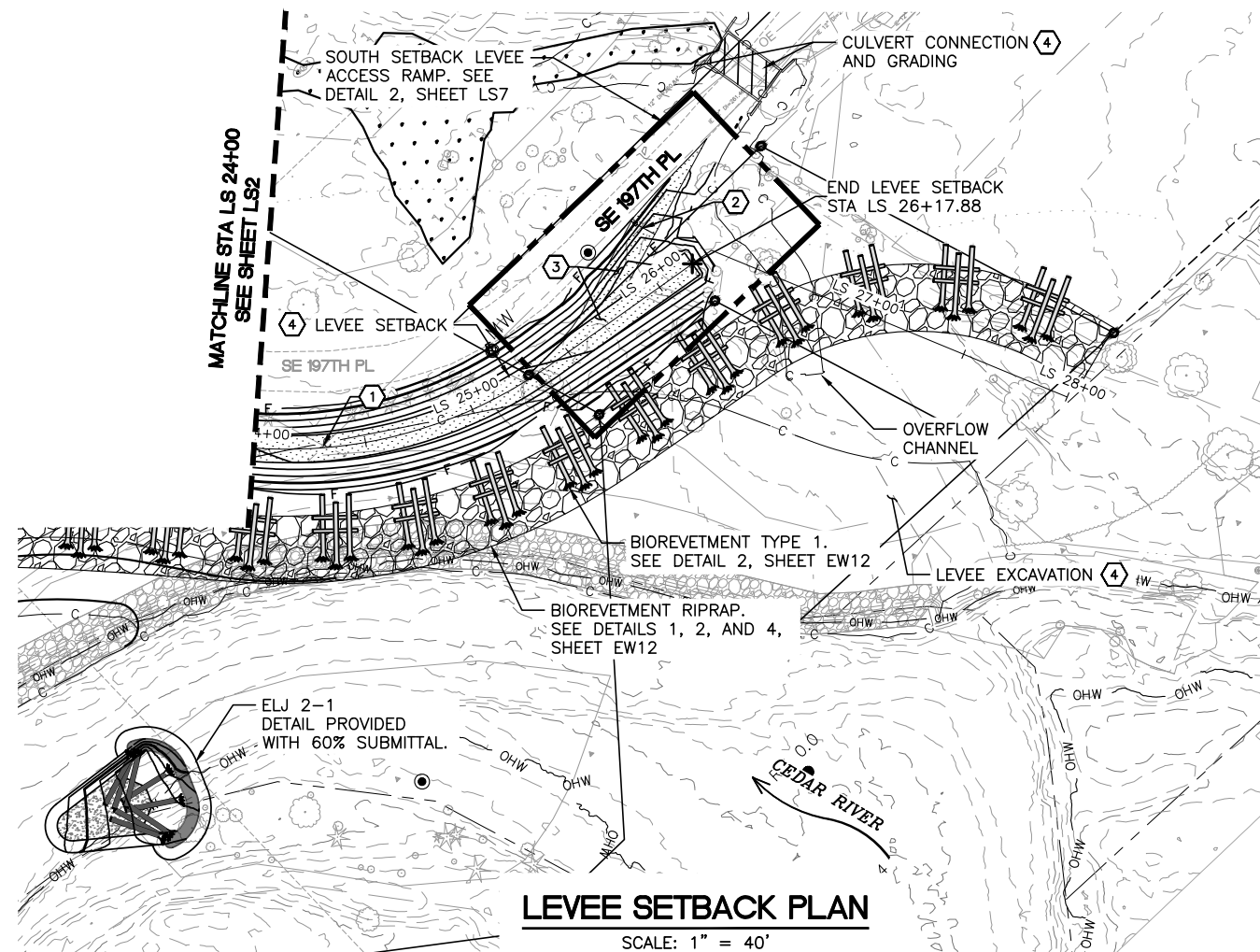


NUM.	REVISION	BY	DATE	APPROVED: CHRIS BRUMMER, PE	FUNDING SOURCE No. --	 <div>TETRA TECH</div> <div>www.tetratech.com</div> <div>1420 Fifth Avenue, Suite 650</div> <div>Seattle, Washington 98101</div> <div>Phone: 206-883-9300 Fax: 206-883-9301</div>	 <div>PRELIMINARY NOT FOR CONSTRUCTION</div>	 <div>King County</div> <div>Department of Natural Resources and Parks</div> <div>Water and Land Resources Division</div> <div>River and Floodplain Management Section</div> <div>Christie True, Director</div>	JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT	SHEET 12 OF 22 SHEETS
30% PROGRESS COPY 3/31/2021				PROJECT MANAGER: DAN HECKENDORF, PE	PROJECT No. 1131550					
				PROJECT ECOLOGIST: THOMAS BANNISTER, PWS						
				DESIGNED: JERRY SCHELLER, PE	CONTRACT No. E00599E19					
NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: KEVEN AXT, PE						
				CAD DESIGN: ALEX BUESCHER, EIT						LS1









## KEY NOTES

- ① EXISTING UTILITY POLE TO BE RELOCATED. DETAIL PROVIDED WITH 60% SUBMITTAL.
- ② SETBACK LEVEE ACCESS ROAD SHALL BE 8" CURSHED SURFACING BASE COURSE. SEE SECTION A, SHEET LS7.
- ③ INSTALL LEVEE ACCESS GATE. DETAIL PROVIDED WITH 60% SUBMITTAL.
- ④ SEE SHEET SP1 FOR SHEET LAYOUT.






ONE INCH  
AT FULL SCALE  
IF NOT ONE INCH  
SCALE ACCORDINGLY



**Know what's below.  
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VERTICAL: NAVD 1988  
HORIZONTAL: NAD 1983/1991

NUM.		REVISION		BY	DATE	APPROVED: CHRIS BRUMMER, PE		FUNDING SOURCE No. --		 <b>TETRA TECH</b> www.tetratech.com 1420 Fifth Avenue, Suite 650 Seattle, Washington 98101 Phone: 206-883-9300 Fax: 206-883-9301		 PRELIMINARY NOT FOR CONSTRUCTION		 <b>King County</b> Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section  Christie True, Director		<b>JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT</b>		SHEET	
NUM.		RECORD CHANGES APPROVED		BY	DATE	PROJECT MANAGER: DAN HECKENDORF, PE		PROJECT No. 1131550										14 OF	
NUM.		RECORD CHANGES APPROVED		BY	DATE	PROJECT ECOLOGIST: THOMAS BANNISTER, PWS		PROJECT No. 1131550										22 SHEETS	
NUM.		RECORD CHANGES APPROVED		BY	DATE	DESIGNED: JERRY SCHELLER, PE		CONTRACT No. E00599E19										LS3	
NUM.		RECORD CHANGES APPROVED		BY	DATE	REVIEWED: KEVEN AXT, PE		CONTRACT No. E00599E19											
NUM.		RECORD CHANGES APPROVED		BY	DATE	CAD DESIGN: ALEX BUESCHER, EIT													

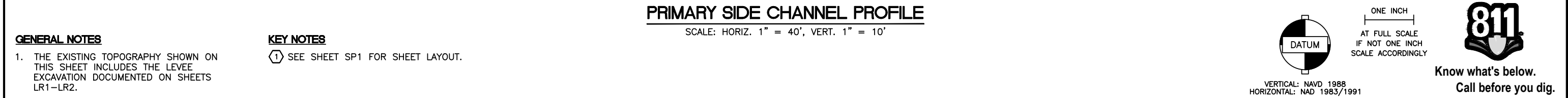
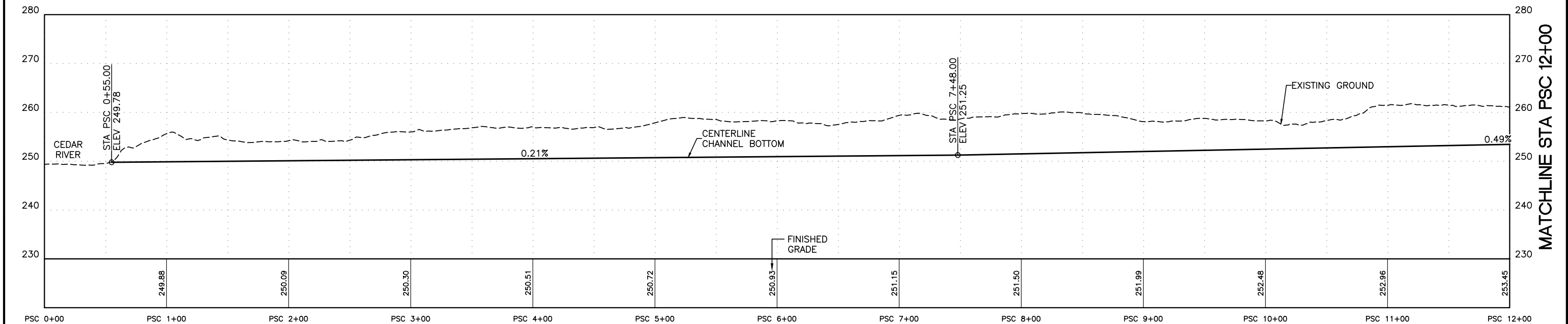
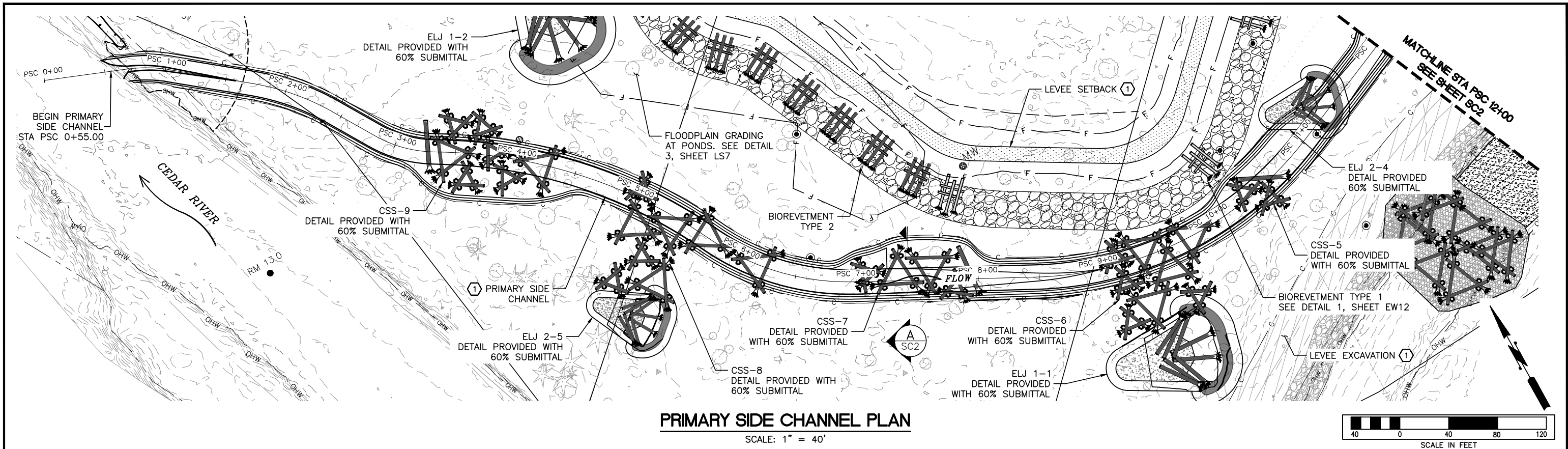
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3/31/2021


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3/31/2021



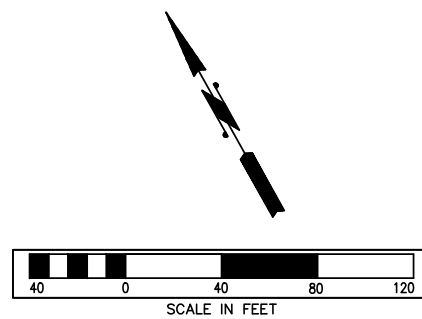




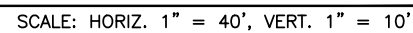


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				PROJECT MANAGER: DAN HECKENDORF, PE	PROJECT No. 1131550						
				DESIGNED: JERRY SCHELLER, PE	CONTRACT No. E00599E19						
NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: KEVEN AXT, PE							
				CAD DESIGN: ALEX BUESCHER, EIT							



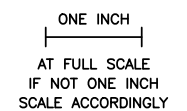
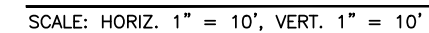


SCALE: 1" = 40'






1. THE EXISTING TOPOGRAPHY SHOWN ON THIS SHEET INCLUDES THE LEVEE EXCAVATION DOCUMENTED ON SHEETS LR1-LR2.

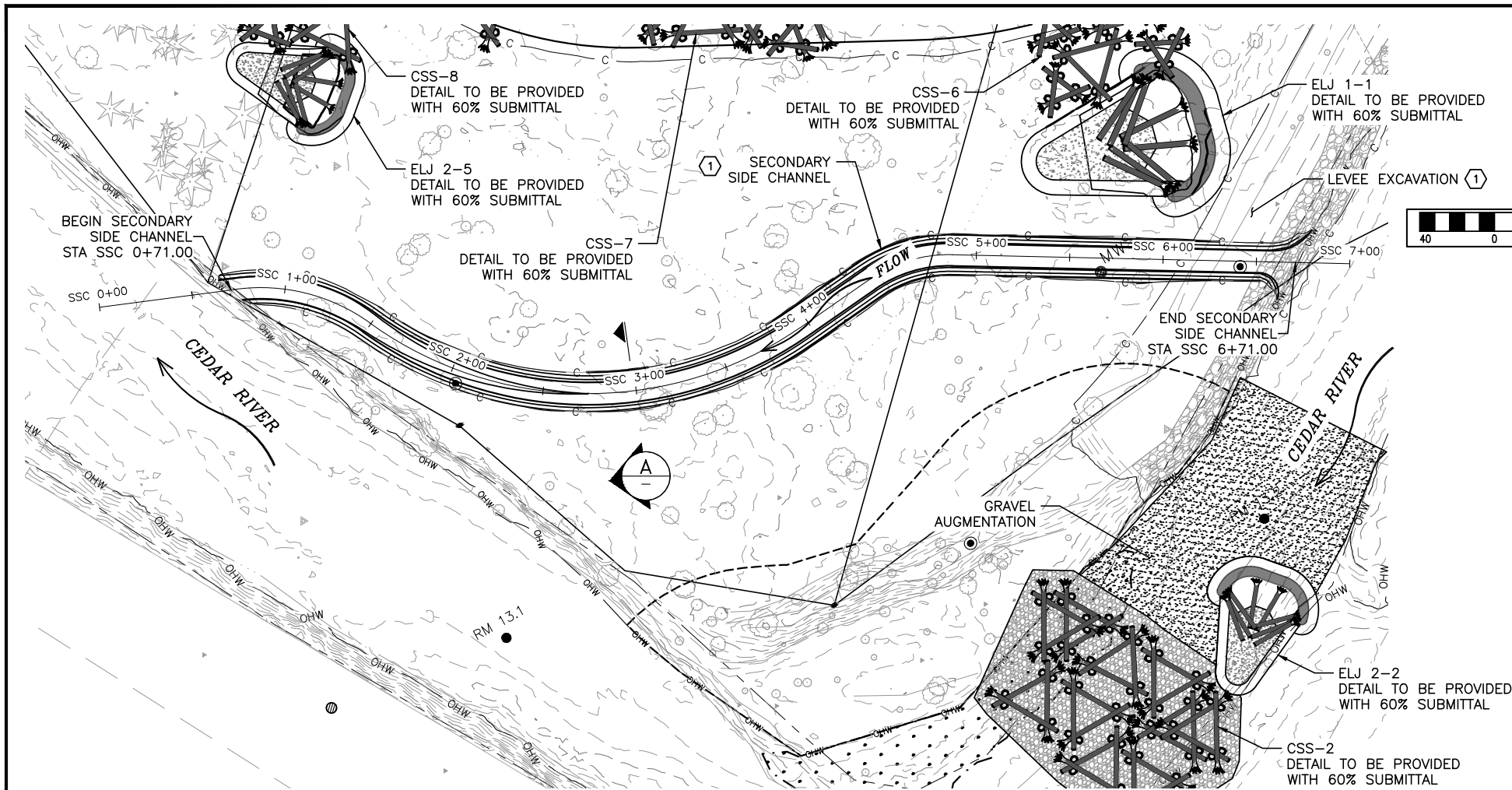
① SEE SHEET SP1 FOR SHEET LAYOUT.



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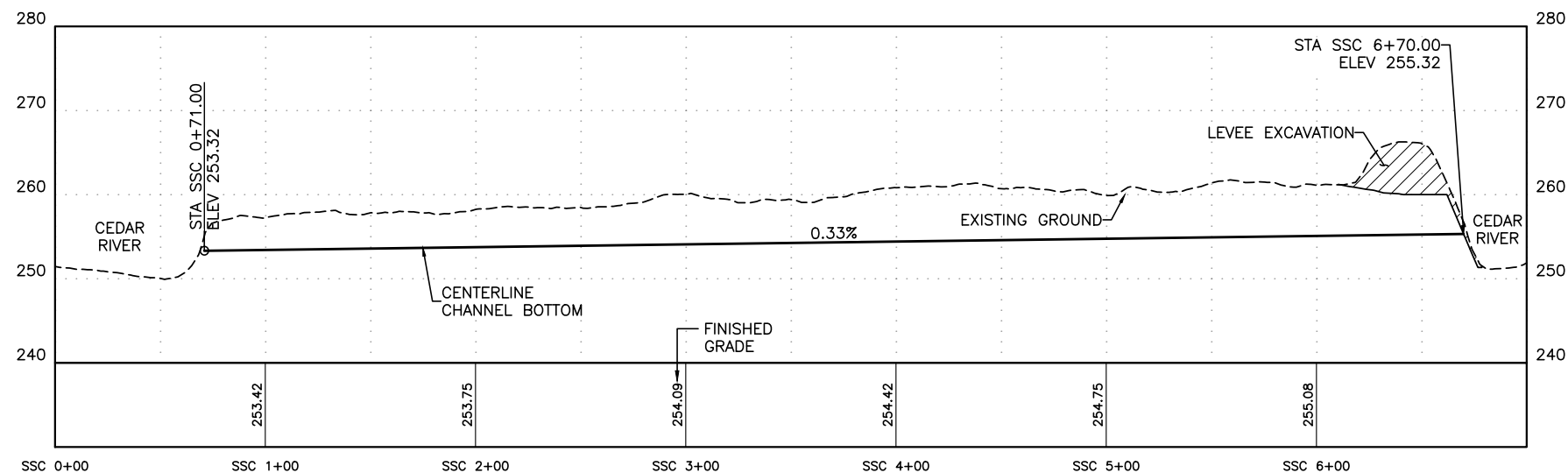
NUM.		REVISION		BY	DATE	APPROVED: CHRIS BRUMMER, PE		FUNDING SOURCE No. --		 <b>TETRA TECH</b> www.tetrastech.com 1420 Fifth Avenue, Suite 650 Seattle, Washington 98101 Phone: 206-883-9300 Fax: 206-883-9301				 <b>King County</b> Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section Christie True, Director		<b>JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT</b>		SHEET <b>17</b> OF <b>22</b> SHEETS	
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		PROJECT ECOLOGIST: THOMAS BANNISTER, PWS		CONTRACT No. E00599E19															
		DESIGNED: JERRY SCHELLER, PE																	
NUM.		RECORD CHANGES APPROVED		BY	DATE	REVIEWED: KEVEN AXT, PE													
						CAD DESIGN: ALEX BUESCHER, EIT												<b>SC2</b>	





## SECONDARY SIDE CHANNEL PLAN

SCALE: 1" = 40'



## SECONDARY SIDE CHANNEL PROFILE

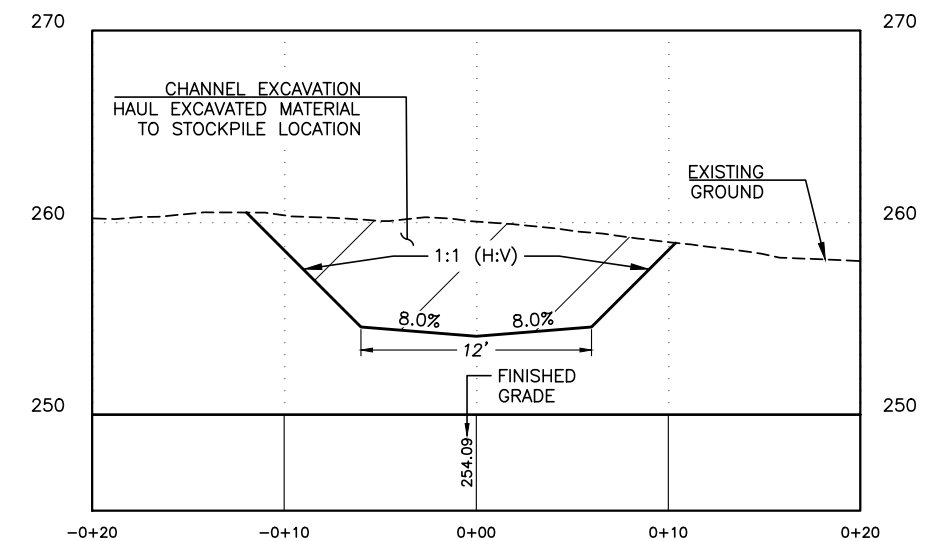
SCALE: HORIZ. 1" = 40', VERT. 1" = 10'

### GENERAL NOTES

1. THE EXISTING TOPOGRAPHY SHOWN ON THIS SHEET INCLUDES THE LEVEE EXCAVATION DOCUMENTED ON SHEETS LR1-LR2.

### KEY NOTES

- 1 SEE SHEET SP1 FOR SHEET LAYOUT.



## TYPICAL SECTION - SECONDARY SIDE CHANNEL

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



ONE INCH  
AT FULL SCALE  
IF NOT ONE INCH  
SCALE ACCORDINGLY

VERTICAL: NAVD 1988  
HORIZONTAL: NAD 1983/1991



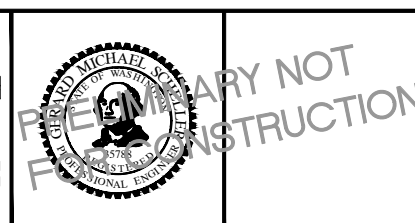
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PROJECT ECOLOGIST:	THOMAS BANNISTER, PWS
DESIGNED:	JERRY SCHELLER, PE
REVIEWED:	KEVEN AXT, PE
CAD DESIGN:	ALEX BUESCHER, EIT

FUNDING	---
SOURCE No.	
PROJECT No.	1131550
CONTRACT No.	E00599E19

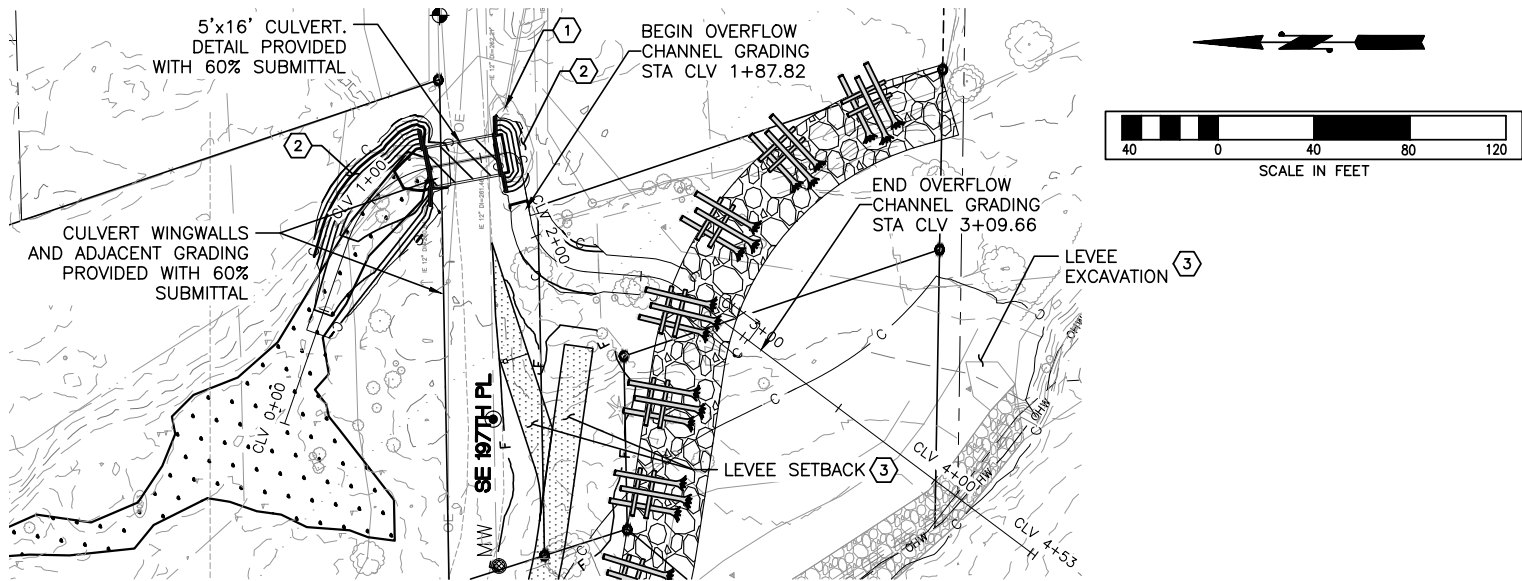
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1420 Fifth Avenue, Suite 650  
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**King County**  
Department of Natural Resources and Parks  
Water and Land Resources Division  
River and Floodplain Management Section  
Christie True, Director

JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT	SHEET
	18
	OF
	22
SECONDARY SIDE CHANNEL PLAN AND PROFILE	SHEETS
	SC3



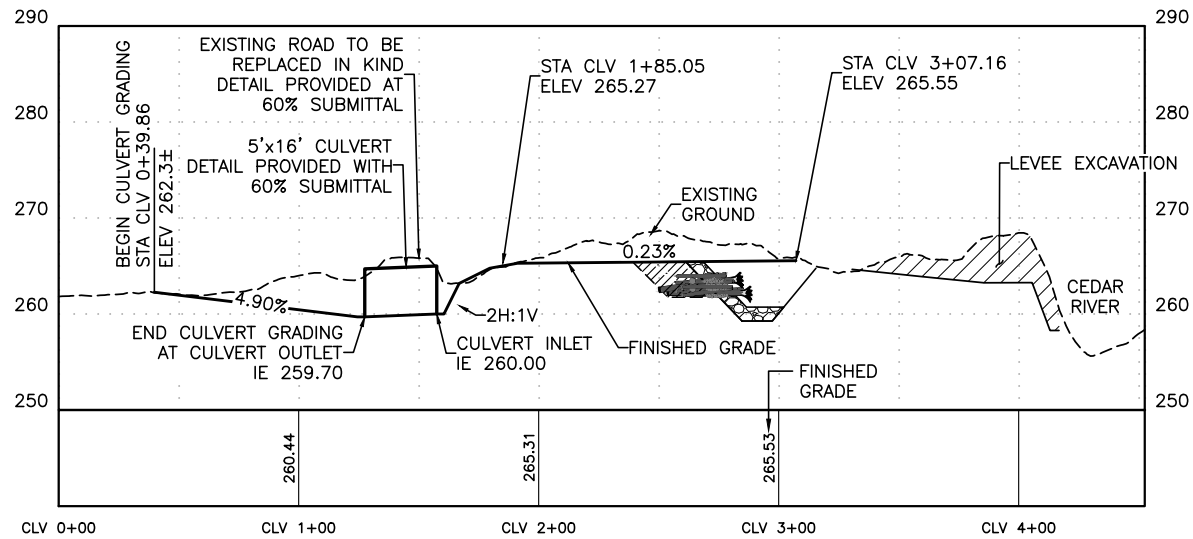


### CULVERT PLAN

SCALE: 1" = 40'

#### KEY NOTES

- 1 EXISTING CULVERT TO BE REMOVED
- 2 GRADE TO EXISTING GROUND AT 2H:1V
- 3 SEE SHEET SP1 FOR SHEET LAYOUT.



### CULVERT PROFILE

SCALE: HORIZ. 1" = 40', VERT. 1" = 10'






VERTICAL: NAVD 1988  
HORIZONTAL: NAD 1983/1991

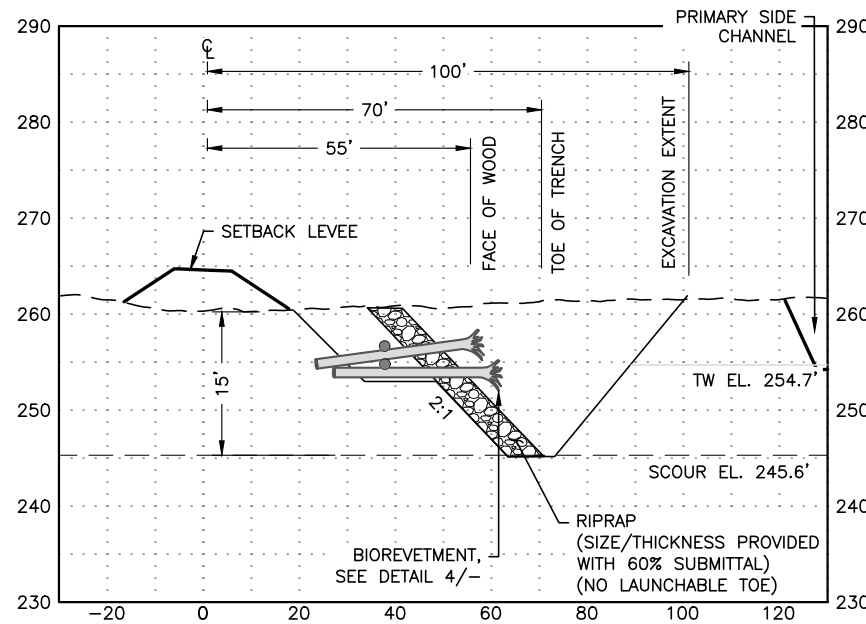
ONE INCH  
AT FULL SCALE  
IF NOT ONE INCH  
SCALE ACCORDINGLY



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NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED:	CONTRACT							19
NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN:	1131550							OF
NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN:	E00599E19							22
												SHEETS
												C2

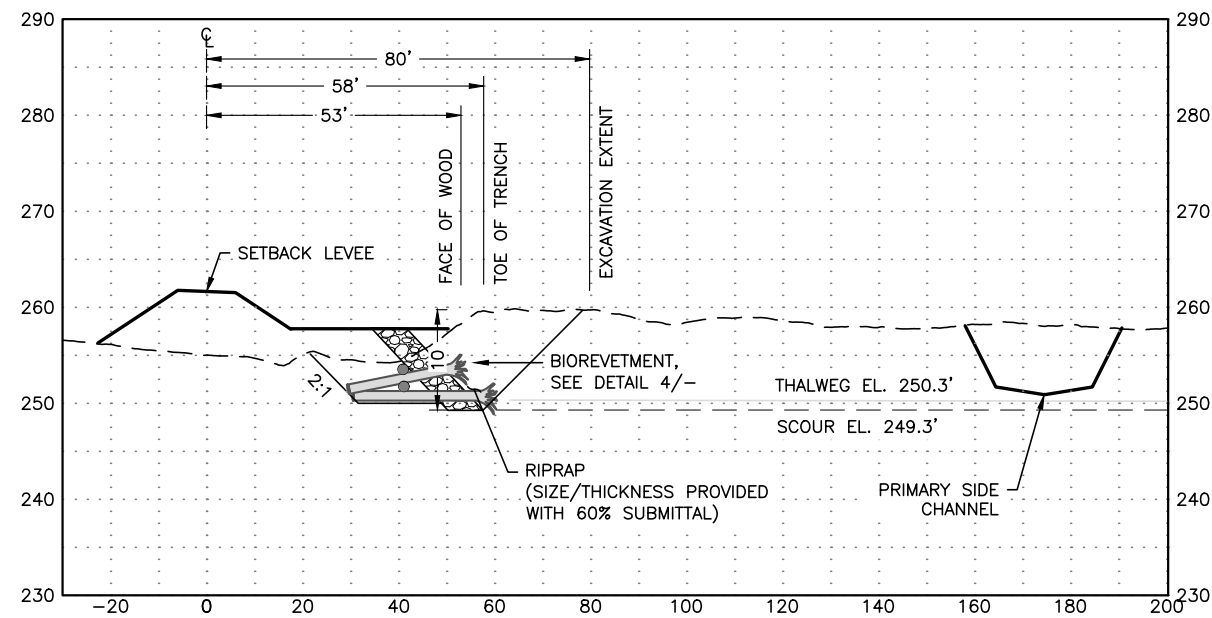




**BIORETVETMENT TYPE 1  
(LAUNCHABLE TOE OPTIONAL)**

NOTE: SCOUR ELEVATION VARIES BY STATION

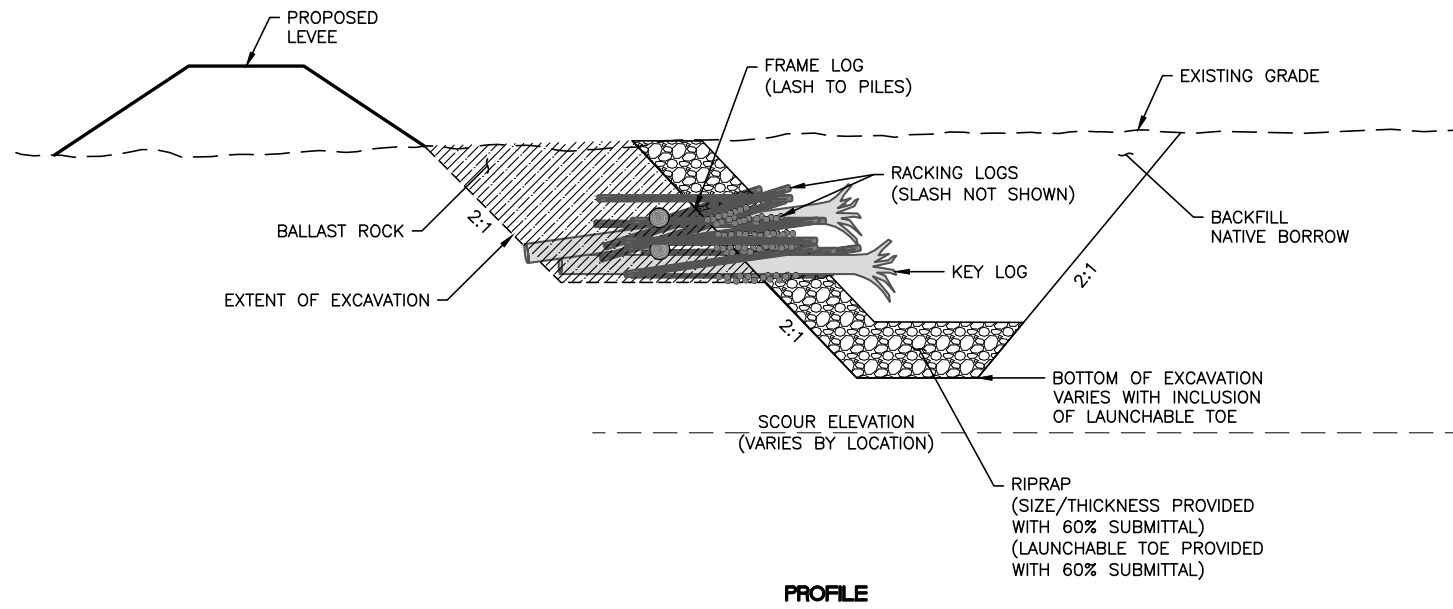
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LS2



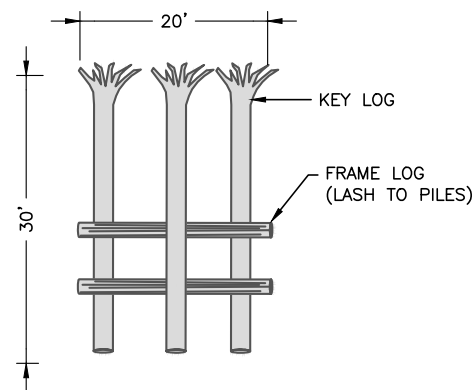
**BIORETVETMENT TYPE 2**

NOTE: SCOUR ELEVATION VARIES BY STATION

2  
LS1



**PROFILE**



**PLAN**

**TYPICAL BIORETVETMENT  
TYPE 1 AND TYPE 2**

4  
—



ONE INCH  
AT FULL SCALE  
IF NOT ONE INCH  
SCALE ACCORDINGLY

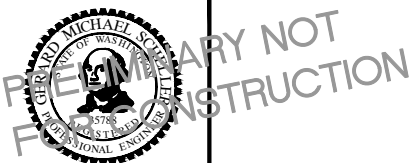


VERTICAL: NAVD 1988  
HORIZONTAL: NAD 1983/1991

NUM.	REVISION	BY	DATE
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NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED:	CHRIS BRUMMER, PE
PROJECT MANAGER:	DAN HECKENDORF, PE
PROJECT ECOLOGIST:	THOMAS BANNISTER, PWS
DESIGNED:	JERRY SCHELLER, PE
REVIEWED:	KEVEN AXT, PE
CAD DESIGN:	ALEX BUESCHER, EIT

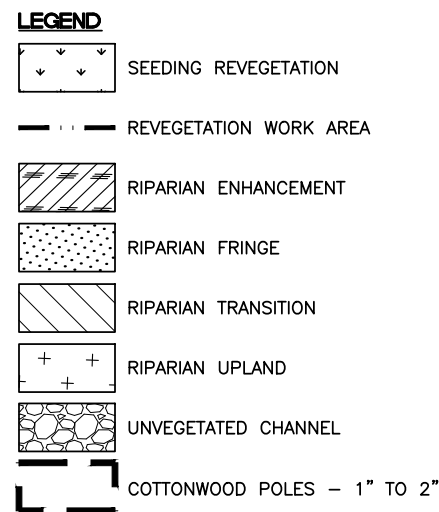
FUNDING SOURCE No.	---
PROJECT No.	1131550
CONTRACT No.	E00599E19



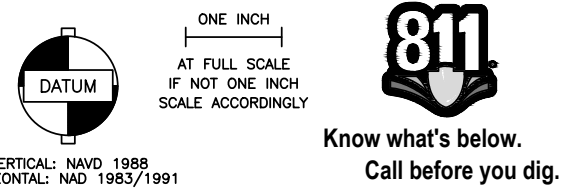
<b>JAN ROAD NEIGHBORHOOD IMPROVEMENT PROJECT</b>
<b>WOOD DETAILS</b>

SHEET <b>20</b> OF <b>22</b> SHEETS
<b>EW12</b>





PLANTING DENSITIES BY ZONE & FORM					
ZONE	ZONE NAME	ALPS	TREE STEMS PER ACRE	SHRUB STEMS PER ACRE	HERB STEMS PER ACRE
6	COTTONWOOD POLES 3-5	VARIABLE	850		
5	COTTONWOOD POLE 1-2	VARIABLE	850		
4	RIPARIAN ENVIRONMENT	VARIABLE	436	3112	1723
3	RIPARIAN PLAND	429	456	3112	1723
2	RIPARIAN FRANKS FORN	50 10	550	3112	1723
1	RIPARIAN FRINGE	66-50	1742	2822	

NOTES: SMALL TREE SPECIES; MEDIUM-LARGE SHRUB SPECIES

SHEET  
**21**  
OF  
**22**  
SHEETS

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**L4**



