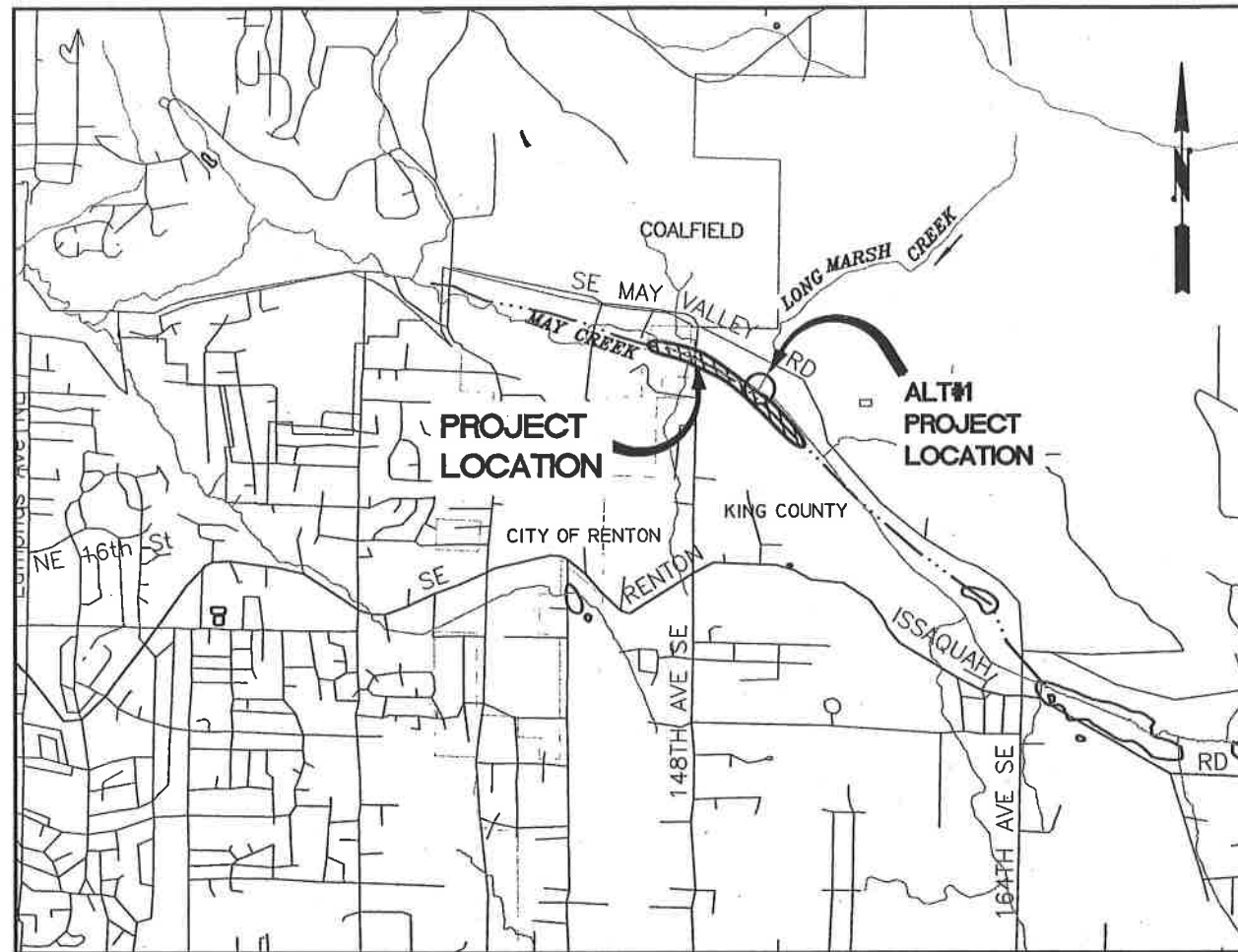


VICINITY MAP



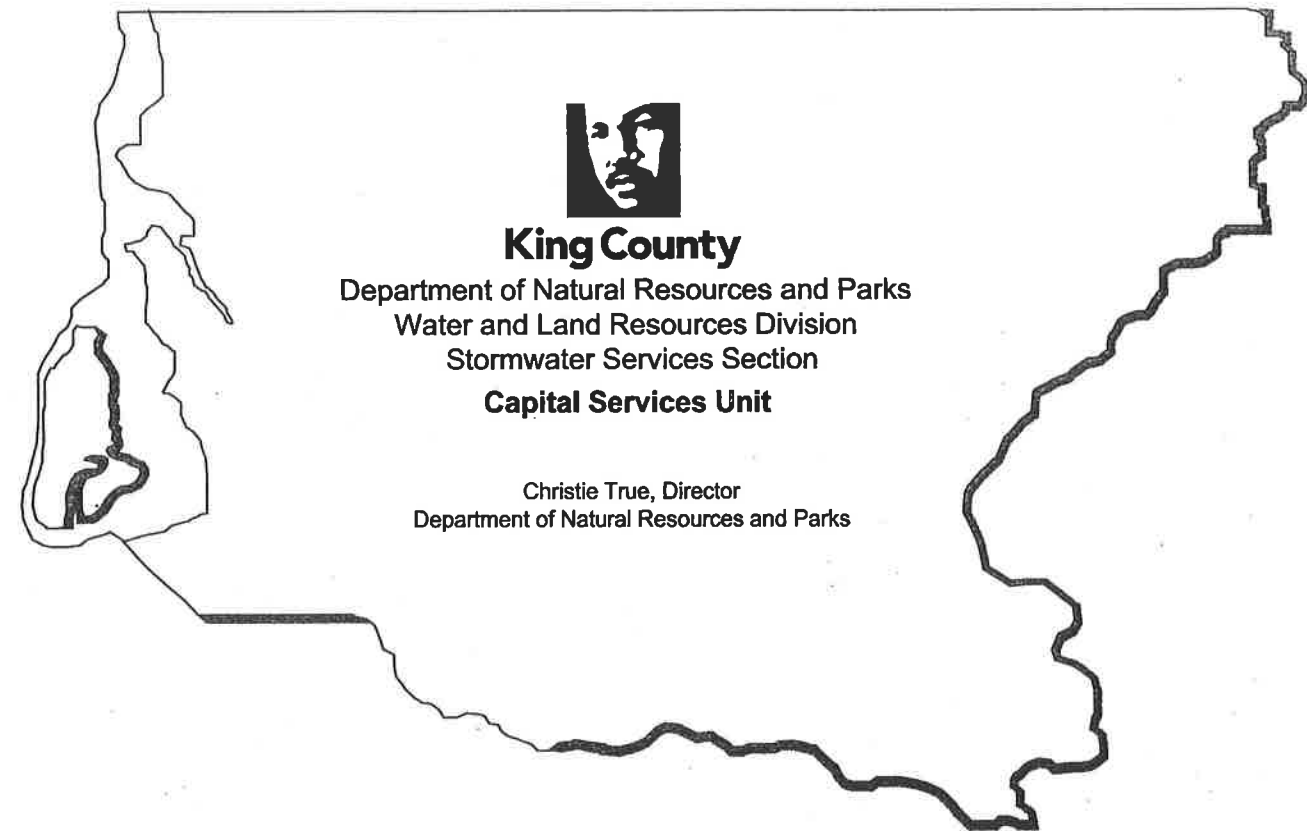
INDEX

SHEET DESCRIPTION

1. VICINITY MAP AND INDEX
2. LEGENDS AND ABBREVIATIONS
3. SUMMARY OF QUANTITIES
4. EXISTING CONDITIONS, SHEET KEY, LEGEND, CONSTRUCTION NOTES
5. TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AND LEGEND
6. TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
7. TESC SEDIMENT DISPOSAL AND TURBID WATER DISPERSION LOCATIONS
8. TEMPORARY EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
9. TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
10. PLAN AND PROFILE, STA. 0+00 TO STA. 8+00
11. PLAN AND PROFILE, STA. 8+00 TO STA. 16+20
12. PLAN AND PROFILE, STA. 16+20 TO STA. 24+00
13. PLAN AND PROFILE, STA. 24+00 TO STA. 29+00 END OF PROJECT
14. WETLAND AND RIPARIAN MITIGATION PLAN, STA. 0+00 TO STA. 7+00
15. CROSS SECTIONS AND HABITAT MITIGATION DETAILS
16. LOG PLACEMENT, LOG TABLE, ANCHORING NOTES, SNAG DETAIL AND NOTES
17. HABITAT MITIGATION DETAILS: FABRIC APPLICATION
18. HABITAT MITIGATION ENHANCEMENT: FENCE DETAILS
19. PLANTING TABLES AND NOTES (NIC)
20. PLANTING PLAN (NIC)

ALT#1 LONG MARSH CREEK SEDIMENT MANAGEMENT

21. EXISTING CONDITIONS PLAN, CHANNEL PROFILE, LEGEND AND ABBREVIATIONS
22. GRADING PLAN AND PROFILE - LONG MARSH CREEK-MAY CREEK SIDE CHANNEL
23. CROSS SECTIONS AND LOG DETAILS - LONG MARSH CREEK-MAY CREEK SIDE CHANNEL
24. TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AND NOTES
25. TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
26. PLANTING PLAN AND NOTES (NIC)
27. PLANTING SCHEDULE AND DETAILS (NIC)



King County

Department of Natural Resources and Parks
Water and Land Resources Division
Stormwater Services Section

Capital Services Unit

Christie True, Director
Department of Natural Resources and Parks

MAY CREEK DRAINAGE IMPROVEMENT SE MAY VALLEY RD. + 148TH AVE SE ALT#1 LONG MARSH CREEK SEDIMENT MANAGEMENT CONFLUENCE TO RIVER MILE 0.05

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

FIELD BOOK: 09056	01-2010					APPROVED: DON R. ALTHAUSER, P.E.	5-28-13 5/2013	CONTRACT No. C00905C14 C00849C13
SURVEYED: KING COUNTY	01-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	
SURVEY BASE MAP: KING COUNTY	02-2010					DESIGNED: DALE NELSON	5/2013	PROJECT No. 1048119 / 1048164
TREVOR CRAY, PLS	02-2010					W. KAMEDA, P.E.	5/2013	
CHECKED: DALE NELSON	02-2010					DESIGN ENTERED: M.R., K.K., L.T.	5/2013	MAINTENANCE DIVISION No. 2
		1.	UPDATE CONTRACT NO.		3/26/14			
		NUM.	REVISION	BY	DATE			



King County

Department of Natural Resources and Parks
Water and Land Resources Division
Stormwater Services Section
Capital Services Unit




























Christie True, Director

MAY CREEK DRAINAGE IMPROVEMENT
ALT#1 LONG MARSH CREEK
SEDIMENT MANAGEMENT
VICINITY MAP AND INDEX







SHEET
1
OF
27
SHEETS

2006-16

EXISTING

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	MONUMENT IN CASE (MIC)		EXISTING DRIVEWAY, EDGE OF ASPHALT
	HUB AND TACK		PROPERTY LINE
	REBAR AND CAP KING COUNTY		O.H.W.M. LINE
	BERNTSEN NAIL		FENCE- WIRE, BARBED WIRE, SPLIT RAIL
	FORMER FENCE POSTS, GATE POSTS		GUARDRAIL
	EXISTING LOGS		TOE OF CHANNEL -MAY, LONG MARSH, AND INDIAN MEADOW CREEKS
	UTILITY POLE WITH OR WITHOUT UNDERGROUND CONNECTIONS		ROCK RETAINING WALL AT TSEGAY CONSTRUCTION ENTRANCE
	GUY WIRE		EXISTING WETLAND BOUNDARY
	SIGN		EXISTING WETLAND BUFFER
	TELEPHONE RISER		EXISTING STREAM BUFFER
	WATER VALVE		100 YR. EXISTING FLOODPLAIN BOUNDARY
	LARGE ROCK/BOULDER		
	TREE DECIDUOUS		
	SNAG (DEAD TREE)		
	TREE BUSH/SHRUB		
	TREE EVERGREEN		


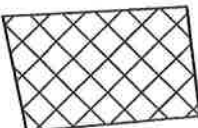
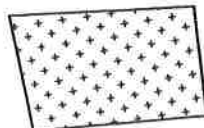
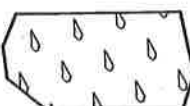



DESIGN LEGEND

	SEDIMENT REMOVAL AREA
	IN-STREAM WILLOW PRUNING AREA
	PLANTING MITIGATION LINE (15' BUFFER) and PROPOSED WETLAND NOTICE BOUNDARY
	3-RAIL CEDAR SPLIT RAIL CONSERVATION EASEMENT/PLANTING MITIGATION FENCING
	BARBED WIRE CONSERVATION EASEMENT LIVESTOCK RESTRICTIVE FENCING
	CLEARING LIMITS

ABBREVIATIONS

ABBREVIATION	DEFINITION
NIC	NOT IN CONTRACT
SEC	SECTION
TWN	TOWNSHIP
R. E	RANGE EAST
W.M.	WILLAMETTE MERIDIAN
STA.	STATION
R-O-W	RIGHT OF WAY
EL	ELEVATION


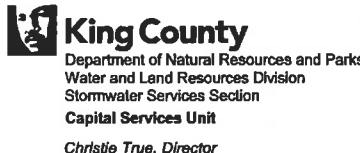
TEMPORARY EROSION SEDIMENTATION CONTROL

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CONSTRUCTION ACCESS ROAD		SPOILS AREA
	STAGING AREA		TURBID WATER DISPERSION AREA
	CLEARING LIMITS		
	FLOATING TURBIDITY CURTAIN		
	SILT FENCE		

- NOTES:
1. PARCEL LINES SHOWN ARE KING COUNTY GIS PARCEL LINES AND ARE SHOWN FOR VISUAL PURPOSES ONLY. THESE PARCEL LINES ARE NOT ACCURATE ENOUGH TO BE USED FOR PURPOSES OF SURVEYING, DEED TAKES, OR ANY OTHER LAND TRANSACTIONS OR DELINEATIONS.
 2. BASIS OF BEARING FOR THIS PROJECT IS N2°01'12"E, THE INVERSE BETWEEN KING COUNTY CONTROL POINTS 3871 (N188995.987, E1316685.925) AND 3705 (N191108.582, E1316760.441)(NAD 83/91 COORDINATE VALUES).
 3. BENCH MARK IS KING COUNTY CONTROL POINT NUMBER 3871, WITH A NAVD88 ELEVATION OF 405.42.



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09056	01-2010					APPROVED: DON R. ALTHAUSER, P.E.	5-28-13 5/2013	CONTRACT No. C00905C14 000849013			MAY CREEK DRAINAGE IMPROVEMENT ALTH LONG MARSH CREEK SEDIMENT MANAGEMENT LEGENDS AND ABBREVIATIONS	SHEET 2 OF 27 SHEETS 2006-16	
SURVEYED: KING COUNTY	01-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119 / 1048164					
SURVEY BASE MAP: KING COUNTY	02-2010					DESIGNED: DALE NELSON	5/2013						
TREVOR CRAY, PLS	02-2010					W. KAMEDA, P.E.	5/2013						
CHECKED: DALE NELSON	02-2010					DESIGN ENTERED: M.R., K.K., LT.	5/2013	MAINTENANCE DIVISION No. 2					
		1. UPDATE CONTRACT NO.		3/26/14									
		NUM.	REVISION	BY	DATE								



SUMMARY OF QUANTITIES

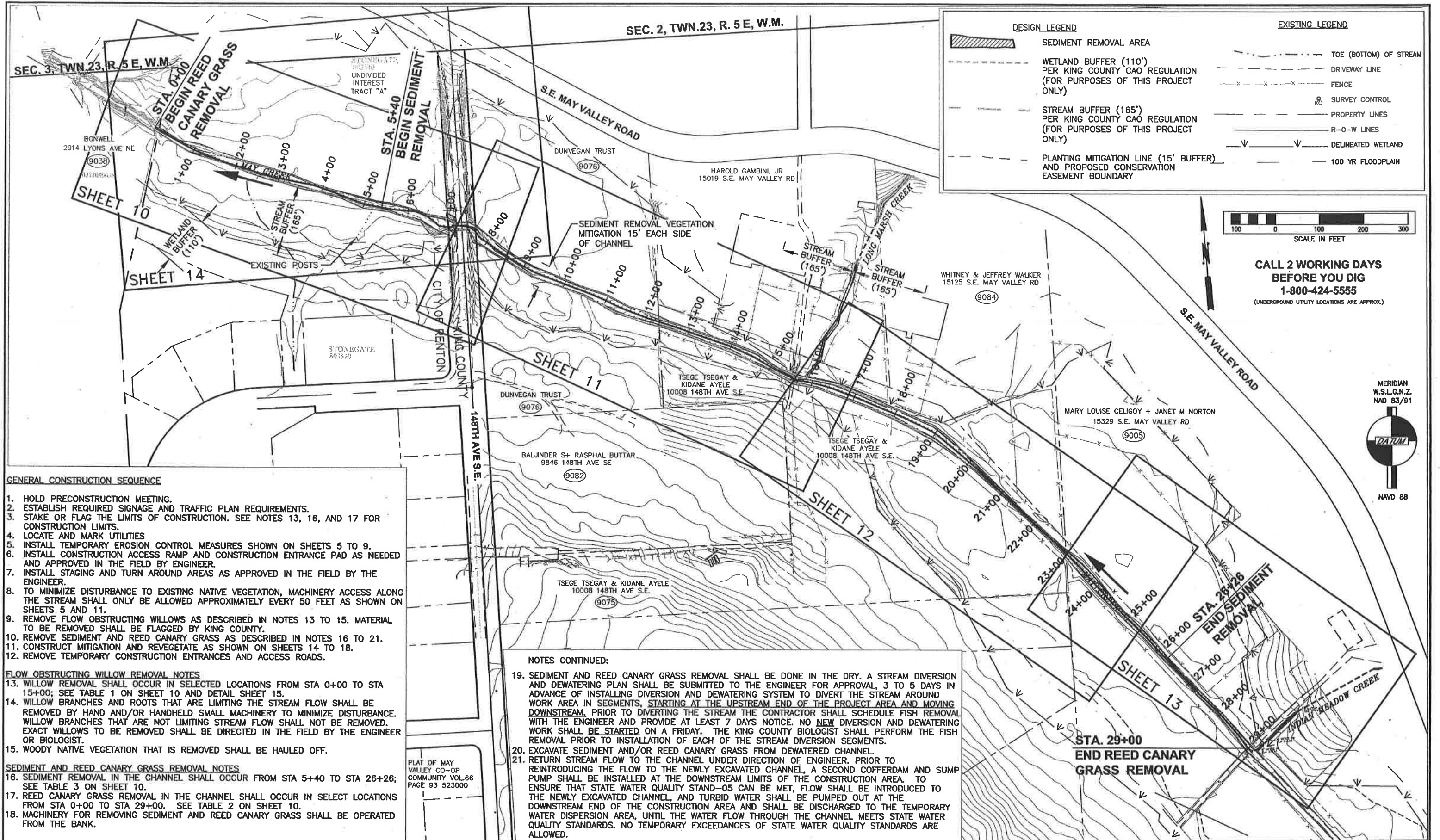
PROJECT LIMITS: LENGTH: —


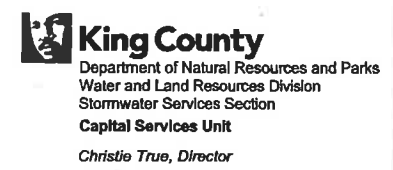
					PROJECT NUMBERS					AS-BUILT
ITEM NO.	TOTAL QUANTITY	UNIT	STD. ITEM NO.	ITEM	1048119	1048164				
BASE BID ITEMS PREPARATION										
1	LUMP SUM	L.S.	0001	MOBILIZATION	1					
2	LUMP SUM	L.S.		CLEARING AND PRUNING	1					
3	800	L.F.	800	REMOVING AND RELOCATING BARBED WIRE FENCE	800					
DRAINAGE										
4	5,170	C.Y.		STREAM EXCAVATION INCL. HAUL (CONTRACTING AGENCY PROVIDED WASTE SITE)	5,170					
5	138	TON	1093	STREAMBED SEDIMENT	138					
EROSION CONTROL AND ROADSIDE RESTORATION										
6	8,730	S.Y.	6455	BIODEGRADABLE EROSION CONTROL BLANKET	8,730					
7	735	S.Y.	6468	STABILIZED CONSTRUCTION ENTRANCE	735					
8	188	L.F.	6373	SILT FENCE	188					
9	\$5,000	EST.	6490	EROSION / WATER POLLUTION CONTROL	\$5,000					
10	LUMP SUM	L.S.		SEEDING	1					
11	LUMP SUM	L.S.		SOIL DRYING CONTAINMENT	1					
12	LUMP SUM	L.S.		STREAM DIVERSION AND DEWATERING SYSTEM	1					
13	30	EACH		HABITAT LOG AND ANCHORING 12"-14" DBH	30					
14	34	EACH		HABITAT LOG WITH ROOT WAD AND ANCHORING 12"-18" DBH	34					
15	5	EACH		HABITAT LOG WITH ROOT WAD AND ANCHORING 16"-18" DBH	5					
16	7	EACH		HABITAT LOG WITH ROOT WAD AND ANCHORING 18"-24" DBH	7					
17	170	L.F.		FLOATING TURBIDITY CURTAIN	170					
18	2	EACH		WILDLIFE SNAG	2					
TRAFFIC										
19	LUMP SUM	L.S.	6971	PROJECT TEMPORARY TRAFFIC CONTROL	1					
OTHER ITEMS										
20	\$15,000	CALC	7728	MINOR CHANGE	\$15,000					
21	LUMP SUM	L.S.	7736	SPCC PLAN	1					

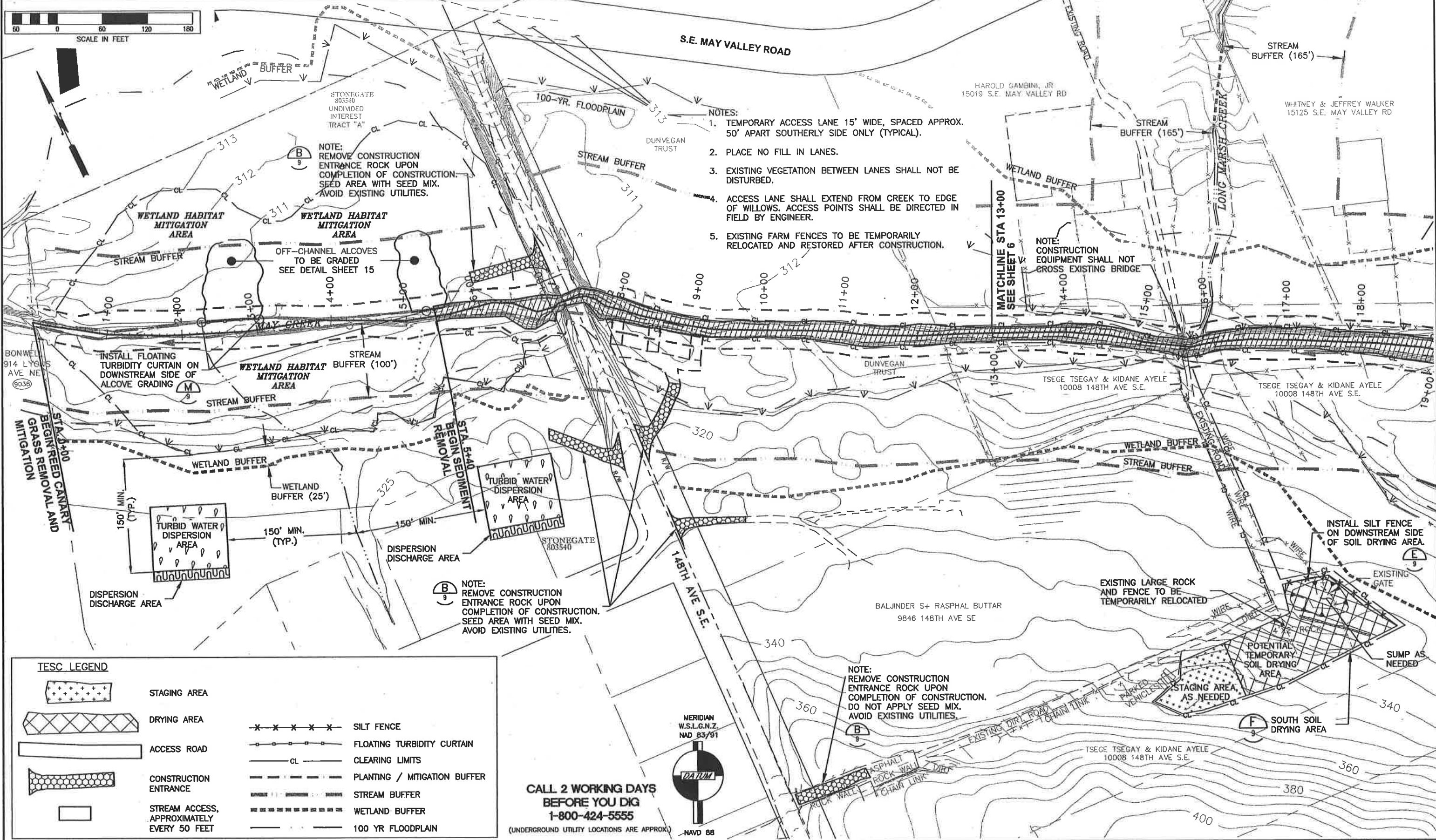
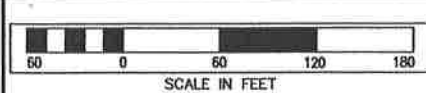
					PROJECT NUMBERS					AS-BUILT
ITEM NO.	TOTAL QUANTITY	UNIT	STD. ITEM NO.	ITEM	1048119	1048164				
ALTERNATE #1 PREPARATION										
22	LUMP SUM	L.S.	0035	CLEARING AND GRUBBING - ALT #1		1				
23	600	L.F.	0230	REMOVING WIRE FENCE - ALT #1		600				
DRAINAGE										
24	700	C.Y.		STREAM EXCAVATION INCL. HAUL - ALT #1		700				
25	80	TON		STREAMBED MIX - ALT #1		80				
26	170	EACH	1097	STREAMBED BOULDER THREE MAN - ALT #1		170				
EROSION CONTROL AND ROADSIDE RESTORATION										
27	100	S.Y.	6455	BIODEGRADABLE EROSION CONTROL BLANKET - ALT #1		100				
28	100	S.Y.	6468	STABILIZED CONSTRUCTION ENTRANCE - ALT #1		100				
29	120	L.F.	6373	SILT FENCE - ALT #1		120				
30	\$5,000	EST.	6490	EROSION / WATER POLLUTION CONTROL - ALT #1		\$5,000				
31	LUMP SUM	L.S.		SEEDING - ALT #1		1				
32	LUMP SUM	L.S.		STREAM DIVERSION AND DEWATERING SYSTEM - ALT #1		1				
33	30	EACH		HABITAT LOG WITH ROOT WAD 12"-18" DBH - ALT #1		30				
34	12	EACH		HABITAT LOG WITH ROOT WAD 18"-24" DBH - ALT #1		12				
35	150	L.F.		FLOATING TURBIDITY CURTAIN - ALT #1		150				
OTHER ITEMS										
36	600	L.F.	7111	WIRE FENCE TYPE 2 - ALT #1		600				
37	\$15,000	CALC	7728	MINOR CHANGE - ALT #1		\$15,000				

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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09056	01-2010	APPROVED: DON R. ALTHAUSER, P.E.	5-28-13 5/2013	CONTRACT No. C00905C14 C00849C13		 King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	MAY CREEK DRAINAGE IMPROVEMENT ALT#1 LONG MARSH CREEK SEDIMENT MANAGEMENT SUMMARY OF QUANTITIES	SHEET 3 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119 / 1048164				
SURVEY BASE MAP: KING COUNTY	02-2010	DESIGNED: DALE NELSON	5/2013					
TREVOR CRAY, PLS	02-2010	W. KAMEDA, P.E.	5/2013					
CHECKED: DALE NELSON	02-2010	DESIGN ENTERED: M.R., K.K., L.T.	5/2013	MAINTENANCE DIVISION No. 2				
1. UPDATE CONTRACT NO.	3/26/14	NUM. REVISION	BY DATE					



FIELD BOOK: 09056	01-2010	APPROVED: DON ALTHAUSER, P.E.	5-28-13 5/2013	C00905C14 CONTRACT No. C00840C13			MAY CREEK DRAINAGE IMPROVEMENT	SHEET 4 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119				
SURVEY BASE MAP: KING COUNTY	02-2010	DESIGNED: DALE NELSON	5/2013	MAINTENANCE DIVISION No. 2				
TREVOR CRAY, PLS	02-2010	DESIGN ENTERED: M.R., K.K., L.T.	5/2013					
CHECKED: DALE NELSON	02-2010	1. UPDATE CONTRACT NO.	3/26/14				EXISTING CONDITIONS, SHEET KEY, LEGEND, CONSTRUCTION NOTES	
NUM.	REVISION	BY	DATE					



TESC LEGEND	
	STAGING AREA
	DRYING AREA
	ACCESS ROAD
	CONSTRUCTION ENTRANCE
	STREAM ACCESS, APPROXIMATELY EVERY 50 FEET
	SILT FENCE
	FLOATING TURBIDITY CURTAIN
	CLEARING LIMITS
	PLANTING / MITIGATION BUFFER
	STREAM BUFFER
	WETLAND BUFFER
	100 YR FLOODPLAIN

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SURVEY BASE MAP: KING COUNTY	02-2010
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DESIGNED: DALE NELSON	5/2013
DESIGN ENTERED: M.R., K.K., L.T.	5/2013

CONTRACT No. C00905C14	000849613
PROJECT No. 1048119	
MAINTENANCE DIVISION No. 2	



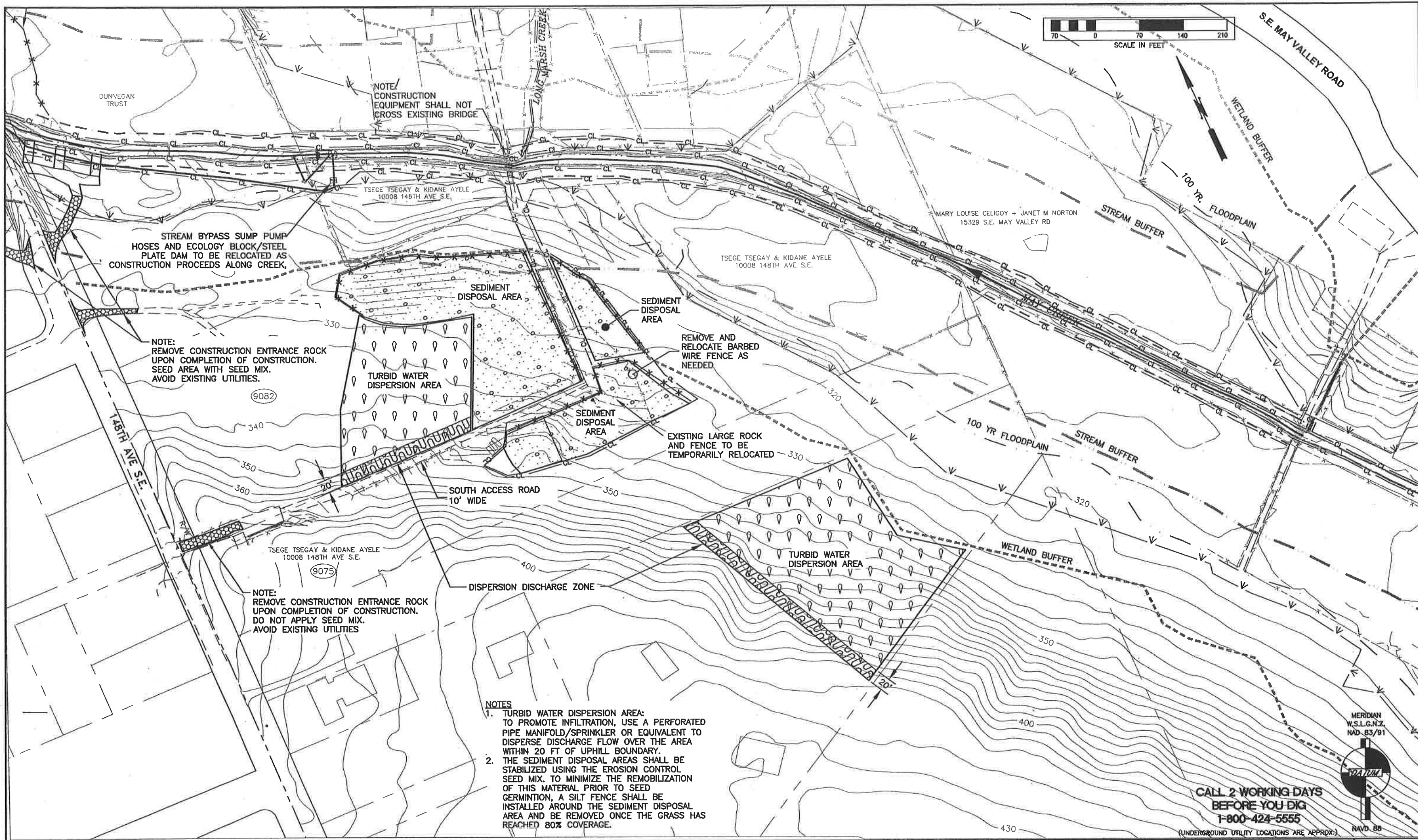
King County
Department of Natural Resources and Parks
Water and Land Resources Division
Stormwater Services Section
Capital Services Unit
Christie True, Director

MAY CREEK DRAINAGE IMPROVEMENT

TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, LEGEND

SHEET 5 OF 27 SHEETS

2006-16





FIELD BOOK: 09056	01-2010	APPROVED: DON ALTHAUSER, P.E.	5-28-13	CONTRACT No. C00905C14		King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	MAY CREEK DRAINAGE IMPROVEMENT TESC SEDIMENT DISPOSAL AND TURBID WATER DISPERSION LOCATIONS	SHEET 7 OF 27 SHEETS 2006-16
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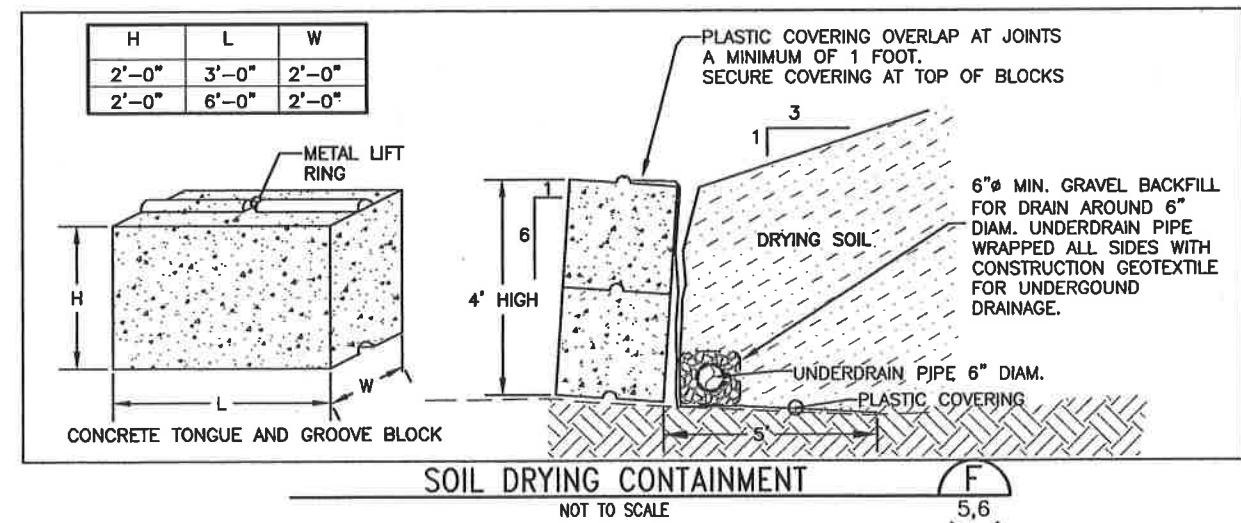
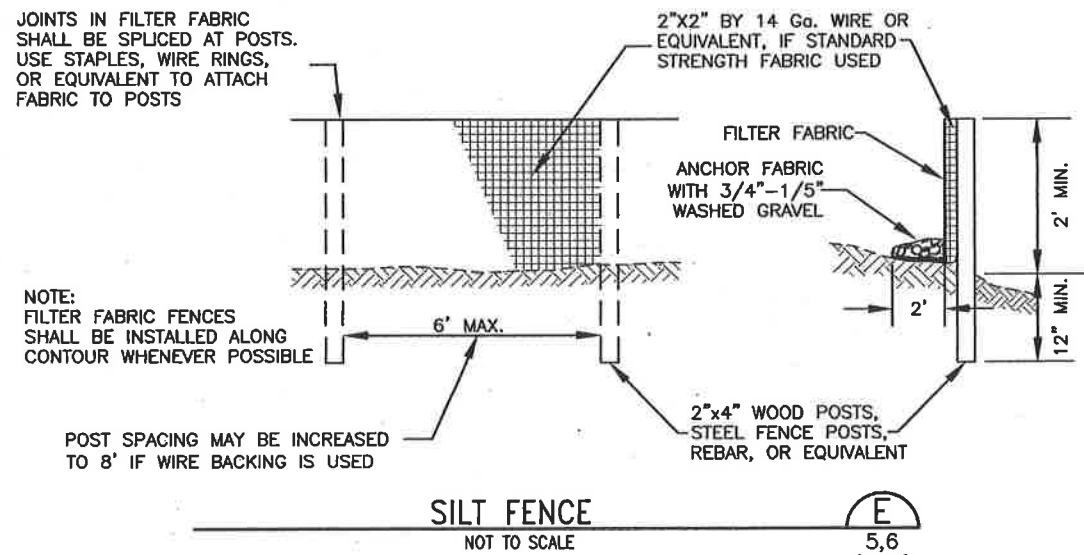
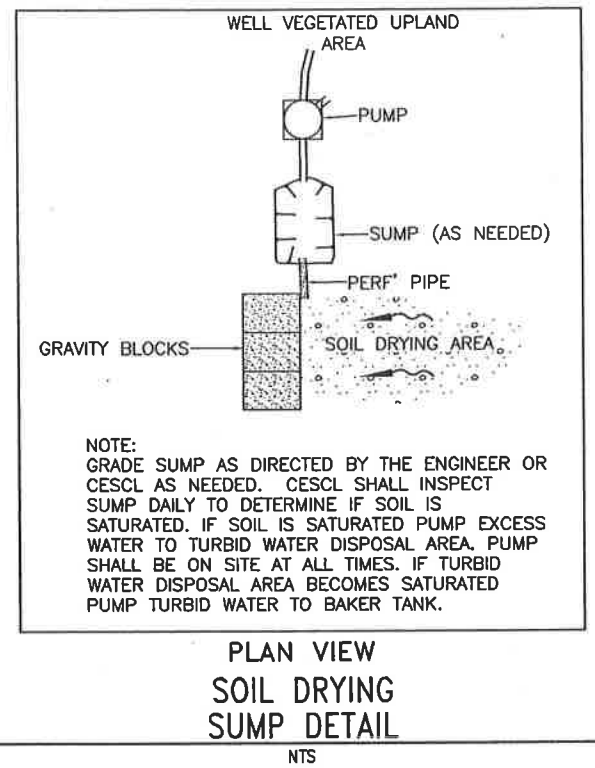
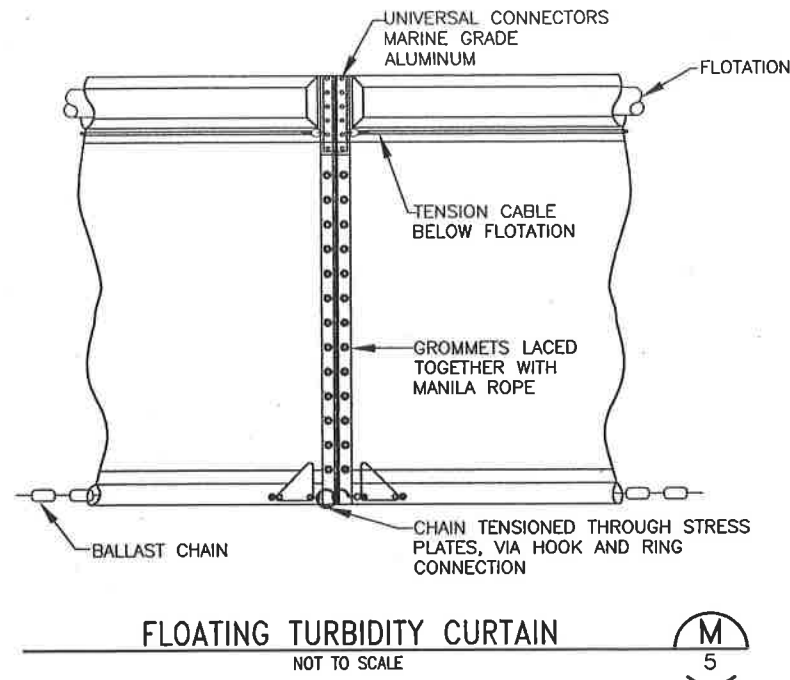
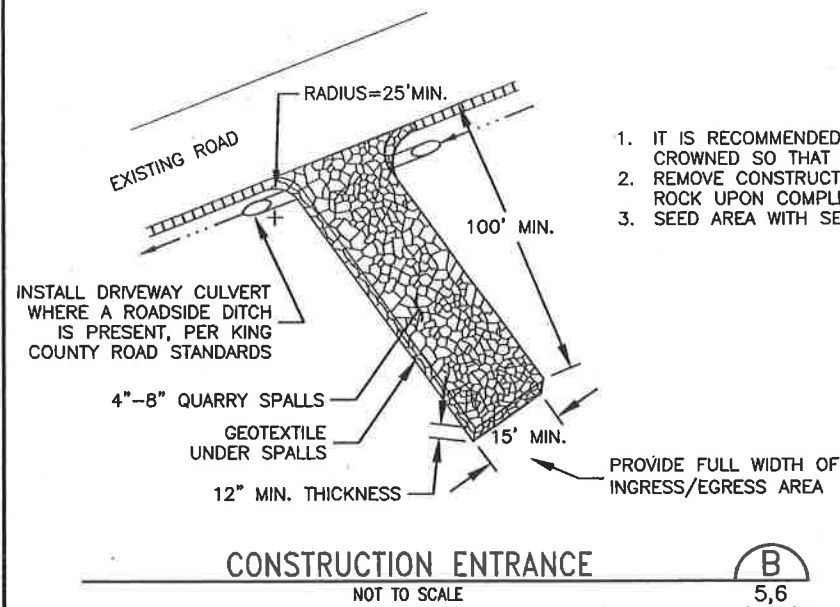
TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

1. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CERTIFIED EROSION SEDIMENT CONTROL LEAD (CESCL) UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, WHERE DETERMINED NECESSARY BY PROJECT ENGINEER, PRIOR TO CONSTRUCTION (2009 SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CERTIFIED EROSION SEDIMENT CONTROL LEAD FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS AND ADJACENT PROPERTIES IS MINIMIZED.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITION (e.g. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION, ETC.) AS DIRECTED BY THE PROJECT ENGINEER/ECOLOGIST.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CERTIFIED EROSION SEDIMENT CONTROL LEAD AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS OF DAILY ESC FACILITIES REVIEWS SHALL BE KEPT AND PROVIDED TO KING COUNTY.
6. WHERE APPROPRIATE, AREAS OF EXPOSED SOILS, INCLUDING EQUIPMENT ROUTES, THAT SHALL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (e.g., SEEDING, MULCHING, PLASTIC COVERING, ETC.)
7. TEMPORARY PATHS USED FOR EQUIPMENT ENTRANCE SHALL BE RESTORED ONCE CONSTRUCTION IS COMPLETED USING THE APPROPRIATE SEED MIX. ONLY TRACK VEHICLES OR APPROVED EQUIPMENT ARE ALLOWED BEYOND ENTRANCE, LANDINGS AND STAGING AREAS.
8. ISOLATE MAY CREEK FROM CONSTRUCTION AREA BY USING NON-EARTHEN COFFER DAM, AS DETERMINED FROM SITE CONDITIONS DURING CHANNEL EXCAVATION. INSTALL A CLEAN SUMP UPSTREAM OF COFFER DAM AND PUMP FROM SUMP TO SUITABLE LOCATION AS DETERMINED BY ENGINEER OR BIOLOGIST.
9. PRESERVE EXISTING NATIVE VEGETATION IN CLEARING AREA UNDER DIRECTION OF PROJECT ENGINEER.
10. SOFT, SATURATED, AND NON-BEARING SOILS ARE EXPECTED. THE CONTRACTOR SHALL USE THE APPROPRIATE EQUIPMENT.
11. THE ONLY IN-WATER WORK ALLOWED IS THE WORK REQUIRED TO INSTALL THE STREAM DIVERSION AND DEWATERING SYSTEM.
12. CONSTRUCTION EQUIPMENT SHALL BE OPERATED FROM THE STREAM BANK ONLY.
13. PRESERVE EXISTING NATIVE VEGETATION TO THE MAXIMUM EXTENT POSSIBLE UNDER THE DIRECTION OF THE ENGINEER.
14. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW FOREIGN MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED FEDERAL, STATE OR LOCAL STANDARDS. ANY PROPOSED ACTION THAT IS NOT DESIGNATED ON THESE PLANS MUST BE APPROVED BY THE APPLICABLE FEDERAL, STATE AND LOCAL AGENCIES PRIOR TO IMPLEMENTATION.

STREAM DIVERSION AND DEWATERING NOTES

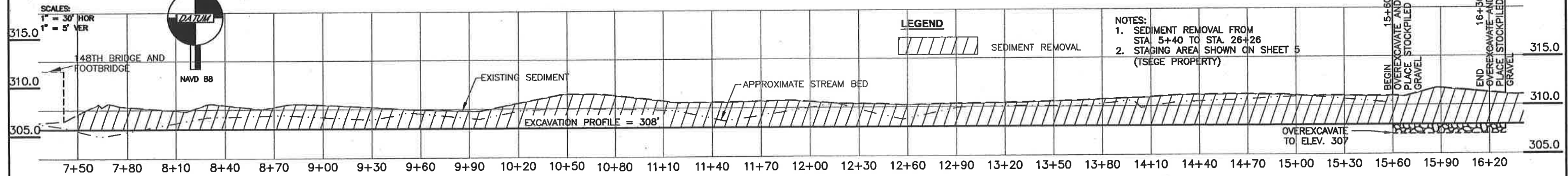
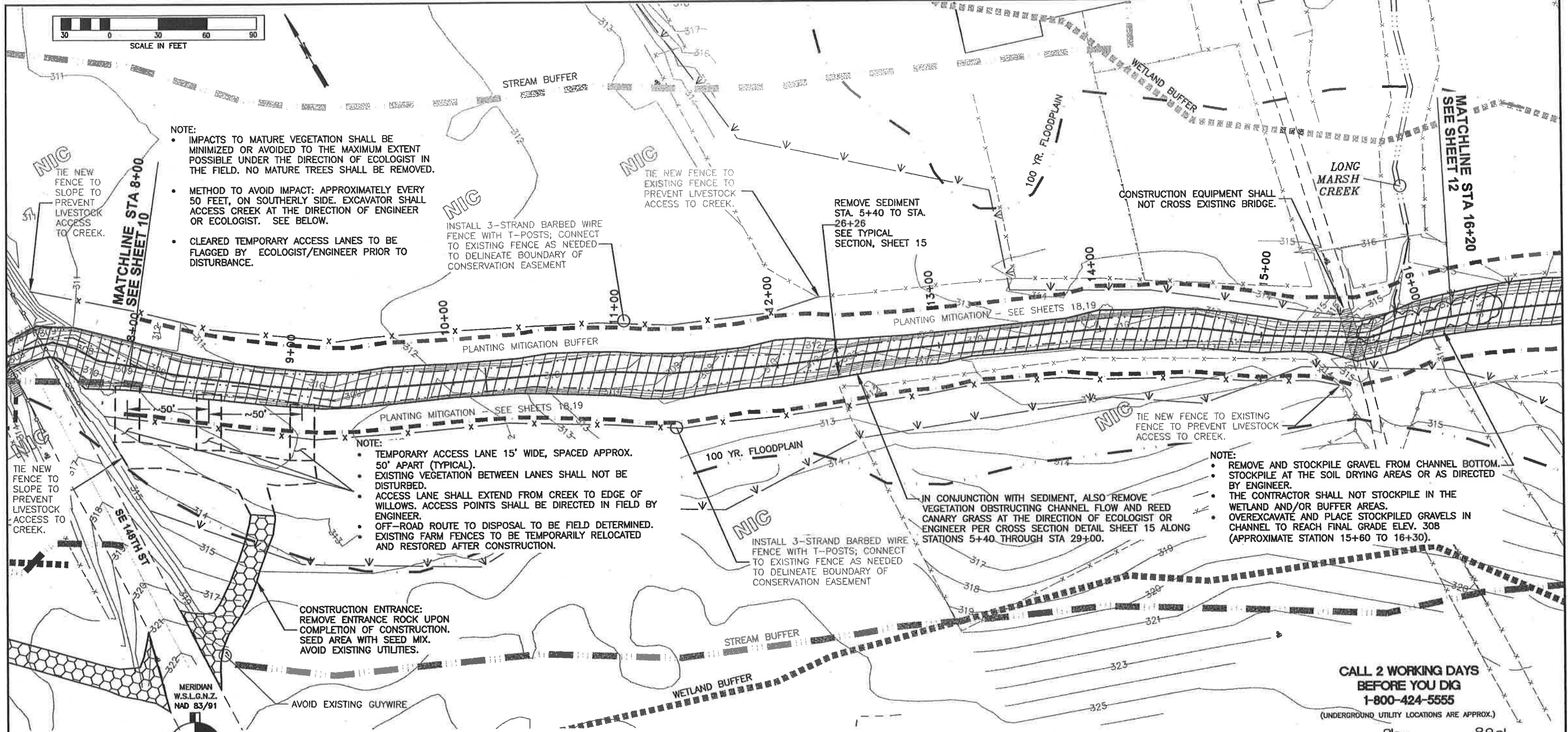
1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY STREAM DIVERSION AND DEWATERING SYSTEM PLAN TO DIVERT THE STREAM FLOWS AROUND THE WORK AREA IN SEGMENTS STARTING UPSTREAM OF THE PROJECT AREA. THE PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL APPROVAL 3 TO 5 DAYS IN ADVANCE OF INSTALLATION. SEE SECTION 8.01.3(1)F OF THE SPECIAL PROVISIONS.
2. THE STREAM DIVERSION EACH SHALL BE A MINIMUM OF 500' TYPICAL. TWO DEWATERING PUMPS WITH A MINIMUM CAPACITY OF 3 CFS EACH, SHALL BE ON SITE AT ALL TIMES FOR PROTECTION OF STREAM CHANNEL WORK AREA DURING DIVERSION.
3. PRIOR TO DIVERTING THE STREAM THE CONTRACTOR SHALL SCHEDULE A FISH REMOVAL WITH THE ENGINEER AND PROVIDE AT LEAST 7 DAYS NOTICE. NO NEW STREAM DIVERSION AND DEWATERING WORK SHALL BE STARTED ON A FRIDAY. THE KING COUNTY BIOLOGIST SHALL PERFORM THE FISH REMOVAL PRIOR TO INSTALLATION OF EACH OF THE STREAM DIVERSION SEGMENTS.
4. THE ONLY IN-WATER WORK ALLOWED IS THE WORK TO INSTALL THE STREAM DIVERSION AND DEWATERING SYSTEM.
5. IT IS LIKELY THAT GROUNDWATER SHALL BE ENCOUNTERED DURING EXCAVATION. ADDITIONAL PUMPS MAY BE REQUIRED TO REMOVE ANY WATER FROM THE WORK AREA AND TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE WORK SITE.
6. AT NO TIME SHALL WORK ACTIVITIES RESULT IN A VIOLATION OF STATE WATER QUALITY STANDARDS. THE BIOLOGIST SHALL MONITOR WATER QUALITY AT ALL TIMES DURING WORK ACTIVITIES. IF WATER QUALITY STANDARDS ARE VIOLATED WORK SHALL BE SUSPENDED UNTIL AN UPDATED PLAN TO PROTECT WATER QUALITY CAN BE IMPLEMENTED.



FIELD BOOK: 09056		01-2010								APPROVED: DON ALTHAUSER, P.E. <i>DAH</i> 5-28-13 5/2013		CONTRACT No. C00905C14 600849C13				 King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director		MAY CREEK DRAINAGE IMPROVEMENT		SHEET 8 OF 27 SHEETS 2006-16	
SURVEYED: KING COUNTY		01-2010						PROJECT MANAGER: DOUG CHIN, PMP 5/2013		PROJECT No. 1048119											
SURVEY BASE MAP: KING COUNTY		02-2010						DESIGNED: DALE NELSON 5/2013		MAINTENANCE DIVISION No. 2											
TREVOR CRAY, PLS		02-2010						DESIGN ENTERED: M.R., K.K., L.T. 5/2013													
CHECKED: DALE NELSON		02-2010																			
				1. UPDATE CONTRACT NO.		3/26/14															
				NUM.		REVISION		BY		DATE											

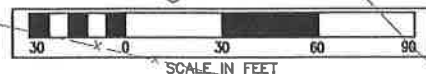


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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09056	01-2010	APPROVED: DON ALTHAUSER, P.E.	5-28-13 5/2013	CONTRACT No. C00905C14 C00849013		King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	MAY CREEK DRAINAGE IMPROVEMENT TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS	SHEET 9 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119				
SURVEY BASE MAP: KING COUNTY	02-2010	DESIGNED: DALE NELSON	5/2013	MAINTENANCE DIVISION No. 2				
TREVOR CRAY, PLS	02-2010	DESIGN ENTERED: M.R., K.K., L.T.	5/2013					
CHECKED: DALE NELSON	02-2010	1. UPDATE CONTRACT NO.	3/26/14					
		NUM.	REVISION	BY	DATE			



FIELD BOOK: 09056		01-2010		APPROVED: DON ALTHAUSER, P.E. <i>DAV</i> 5-28-13 5/2013		CONTRACT No. C00905C14 C00849C13				MAY CREEK DRAINAGE IMPROVEMENT	SHEET 11 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY		01-2010		PROJECT MANAGER: DOUG CHIN, PMP 5/2013		PROJECT No. 1048119					
SURVEY BASE MAP: KING COUNTY		02-2010		DESIGNED: DALE NELSON 5/2013		MAINTENANCE DIVISION No. 2					
CHECKED: DALE NELSON		02-2010		DESIGN ENTERED: M.R., K.K., L.T. 5/2013							
1. UPDATE CONTRACT NO.		3/26/14									
NUM.		REVISION		BY		DATE					



NOTE:

- IMPACTS TO MATURE VEGETATION SHALL BE MINIMIZED OR AVOIDED TO THE MAXIMUM EXTENT POSSIBLE UNDER THE DIRECTION OF ECOLOGIST IN THE FIELD. NO MATURE TREES SHALL BE REMOVED.
- METHOD TO AVOID IMPACT: APPROXIMATELY EVERY 50 FEET, ON SOUTHERLY SIDE, EXCAVATOR SHALL ACCESS CREEK AT THE DIRECTION OF ENGINEER OR ECOLOGIST. SEE SHEET 11.
- CLEARED TEMPORARY ACCESS LANES TO BE FLAGGED BY ECOLOGIST/ENGINEER PRIOR TO DISTURBANCE.

IN CONJUNCTION WITH SEDIMENT, ALSO REMOVE VEGETATION OBSTRUCTING CHANNEL FLOW AND REED CANARY GRASS AT THE DIRECTION OF ECOLOGIST OR ENGINEER PER CROSS SECTION DETAIL SHEET 15 ALONG STATIONS 5+40 THROUGH STA 26+26.

REMOVE SEDIMENT STA. 5+40 TO STA. 26+26 SEE TYPICAL SECTION AND NOTES, SHEET 15

INSTALL 3-STRAND BARBED WIRE FENCE WITH T-POSTS; CONNECT TO EXISTING FENCE AS NEEDED TO DELINEATE BOUNDARY OF CONSERVATION EASEMENT

STA. 26+26 END SEDIMENT REMOVAL

TIE NEW FENCE TO EXISTING FENCE TO PREVENT LIVESTOCK ACCESS TO CREEK.

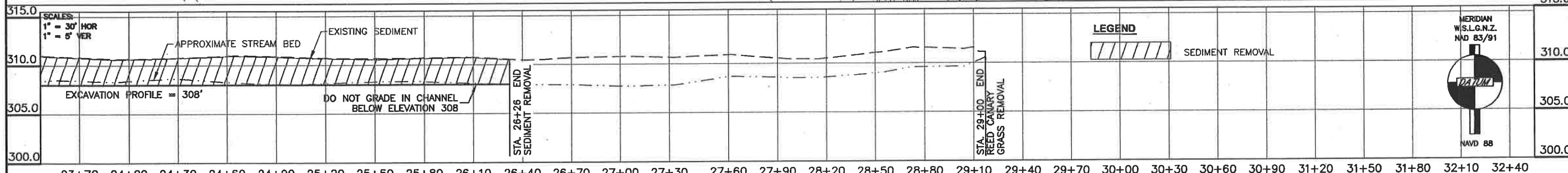
STA. 29+00 END REED CANARY GRASS REMOVAL

NOTE: CONSTRUCTION EQUIPMENT SHALL NOT CROSS EXISTING BRIDGE

REMOVE VEGETATION AND REED CANARY GRASS OBSTRUCTING CHANNEL ALONG STA. 26+26 THROUGH STA. 29+00

NOTE:

- STAGING AREA SHOWN ON SHEET 5, (TSEGAY PROPERTY)



FIELD BOOK: 09056 01-2010
SURVEYED: KING COUNTY 01-2010
SURVEY BASE MAP: KING COUNTY 02-2010
TREVOR CRAY, PLS 02-2010
CHECKED: DALE NELSON 02-2010

1. UPDATE CONTRACT NO. 3/26/14
NUM. REVISION BY DATE

APPROVED: DON ALTHAUSER, P.E. 5-28-13 5/2013
PROJECT MANAGER: DOUG CHIN, PMP 5/2013
DESIGNED: DALE NELSON 5/2013
DESIGN ENTERED: M.R., K.K., L.T. 5/2013

CONTRACT No. C00905C14
PROJECT No. 1048119
MAINTENANCE DIVISION No. 2



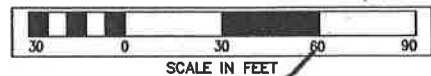
King County
Department of Natural Resources and Parks
Water and Land Resources Division
Stormwater Services Section
Capital Services Unit
Christie True, Director

MAY CREEK DRAINAGE IMPROVEMENT

PLAN AND PROFILE
STA 24+00 TO STA 29+00 END OF PROJECT

SHEET
13
OF
27
SHEETS
2006-16

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NOTE:
LOG PLACEMENT TO BE DIRECTED IN THE FIELD BY THE ENGINEER/BIOLOGIST.
SEE LOG TABLE AND MITIGATION CONSTRUCTION NOTES SHEET 16. LOG
LOCATIONS SHOWN ON THIS SHEET ARE CONCEPTUAL ONLY.

WETLAND BUFFER (25')

INSTALL 3-RAIL CEDAR SPLIT RAIL
FENCE. CONNECT TO EXISTING
FENCE ALONG RIGHT-OF-WAY TO
THE EAST AND PROPERTY FENCE
TO THE WEST. TO BE FIELD
ADJUSTED AS DIRECTED TO MATCH
MITIGATION AREA.

ALCOVES NOTE:
ALCOVE GRADING TO BE DIRECTED IN FIELD BY ENGINEER/BIOLOGIST.
LONGITUDINAL SLOPES ARE 1.5% FROM MAY CREEK TO 15' LANDWARD;
SLOPE VARIES TO CATCH EXISTING GROUND. SIDE SLOPES VARY
CATCHING AT EXISTING GROUND.

ALCOVE GRADING SEE SHEET 15
AND WOOD INSTALLATION SEE SHEET 16
STA 2+33 TO 3+04
STA 5+09 TO 5+33.

ALCOVE PLANTING PLAN SEE SHEET 20

WETLAND AND RIPARIAN NOTES

1. TREES TO BE PRESERVED SHALL BE FLAGGED IN THE FIELD BY THE ECOLOGIST.
2. INSTALL SILT FENCES WHERE DESIGNATED ON THE PLANS. INSTALL ANY OTHER EROSION AND SEDIMENT CONTROL MEASURES AS REQUESTED BY THE ENGINEER
3. ELEVATIONS SHOWN ARE FINAL GRADE. 6 INCHES OF OVER-EXCAVATION SHALL OCCUR AND BE BACKFILLED WITH STREAMBED SEDIMENT IN ALCOVES PER DETAIL SHEET 15.
4. EXCAVATION OF ALCOVES ADJACENT TO THE STREAM CHANNEL SHALL TAKE PLACE ONLY DURING THE FISH WINDOWS AS DESIGNATED IN THE PERMITS.
5. IF ANY GROUNDWATER IS ENCOUNTERED DURING EXCAVATION, DEWATER BY PUMPING AND BROADCASTING TURBID WATER THROUGH PERFORATED PIPE MANIFOLD OR EQUIVALENT AND DISSIPATED OVER VEGETATED STRIP IN UPLAND AREAS OF THE SITE. IF GROUND BECOMES SATURATED A BAKER TANK SHALL BE USED.
6. ELEVATIONS ASSOCIATED WITH CONTOURING ALCOVE AND FLOODPLAIN AREAS ARE TO BE DIRECTED BY ECOLOGIST IN THE FIELD.
7. PARTIALLY BURY AND PLACE LOGS IN THE EXCAVATED ALCOVE, LOG PLACEMENT SHOWN IN THE PLANS ARE SCHEMATIC; ACTUAL PLACEMENT AND ARRANGEMENT TO BE DETERMINED BY THE ECOLOGIST IN THE FIELD. ANCHOR AS SHOWN IN PLAN DETAILS.
8. PLACE 6 INCHES OF STREAMBED SEDIMENT WITHIN THE ALCOVE AREA, PER TYPICAL SECTION, SHEET 15.
9. REMOVE TEMPORARY STABILIZED CONSTRUCTION ENTRANCES AND ANY OTHER EROSION CONTROL MEASURES STILL INSTALLED AT THE SITE.
10. NIC PLANT EMERGENTS AND SHRUBS IN ALCOVES ACCORDING TO PLANTING PLAN.

CONSTRUCTION ENTRANCE:
REMOVE ENTRANCE ROCK UPON
COMPLETION OF CONSTRUCTION.
SEED AREA WITH SEED MIX.
AVOID EXISTING UTILITIES.

MATCHLINE TO PLANTING
8+00 STA 8+00
SEE SHEET 20

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

MERIDIAN
W.S.L.G.N.Z.
NAD 83/91



NAVD 88

FIELD BOOK:	09056	01-2010			
SURVEYED:	KING COUNTY	01-2010			
SURVEY BASE MAP:	KING COUNTY	02-2010			
TREVOR CRAY, PLS	02-2010				
CHECKED:	DALE NELSON	02-2010			
NUM.	REVISION	BY	DATE		
1.	UPDATE CONTRACT NO.		3/26/14		

APPROVED:	DON ALTHAUSER, P.E.	5-28-13	5/2013
PROJECT MANAGER:	DOUG CHIN, PMP	5/2013	
DESIGNED:	DALE NELSON	5/2013	
DESIGN ENTERED:	M.R., K.K., L.T.	5/2013	

CONTRACT No.	C00905C14
PROJECT No.	1048119
MAINTENANCE DIVISION No.	2

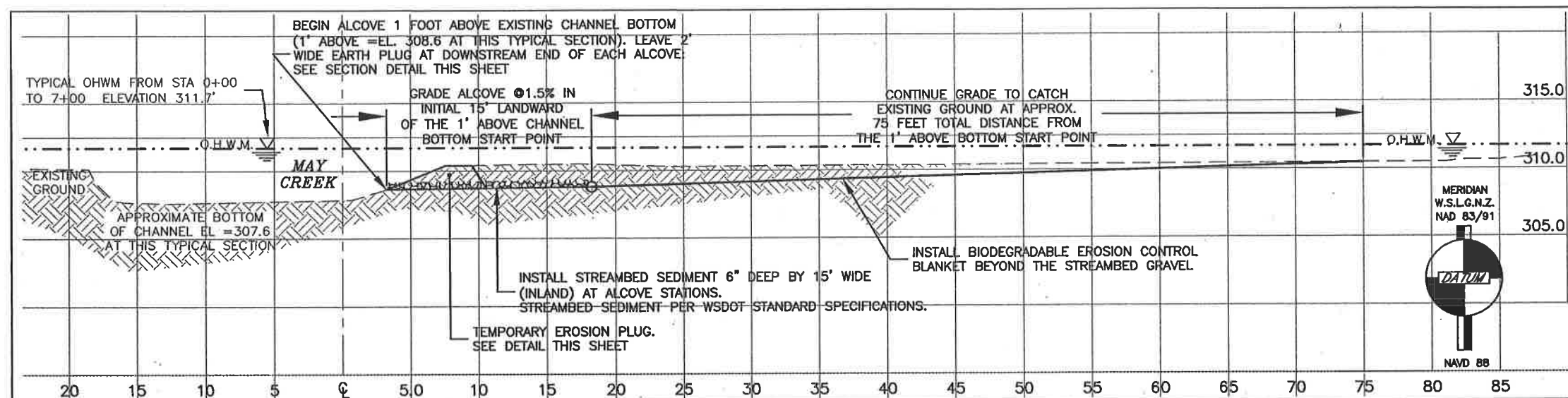
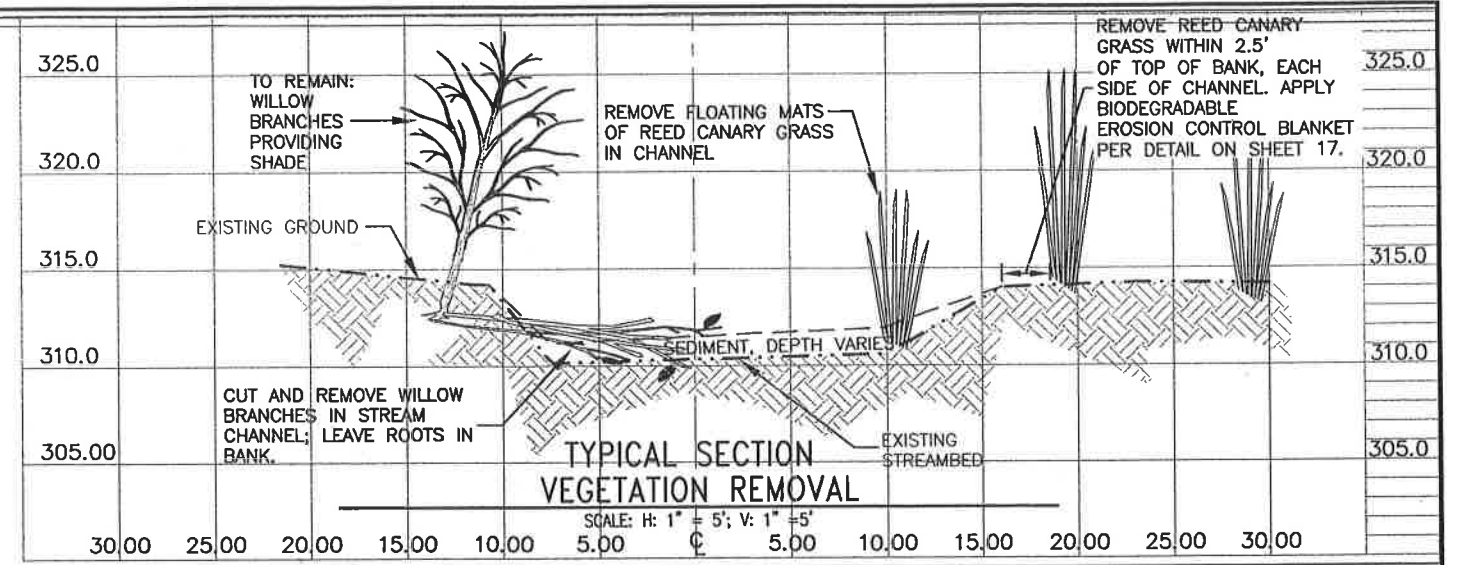
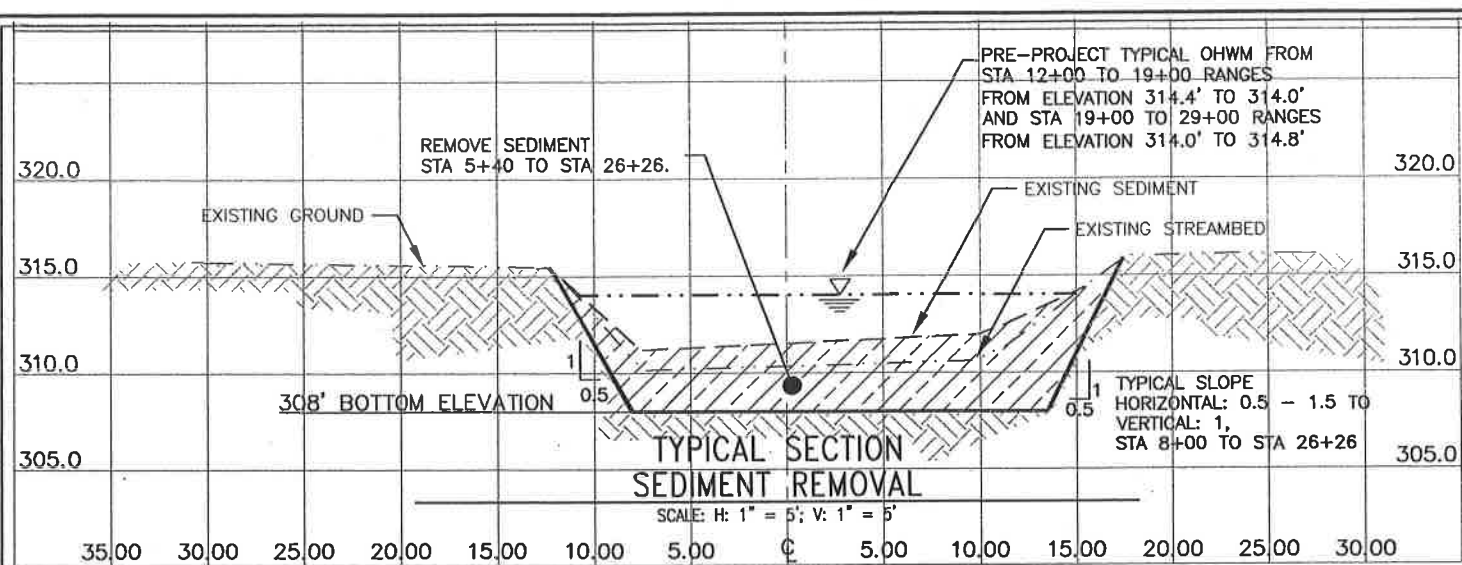


King County
Department of Natural Resources and Parks
Water and Land Resources Division
Stormwater Services Section
Capital Services Unit
Christie True, Director

MAY CREEK DRAINAGE IMPROVEMENT

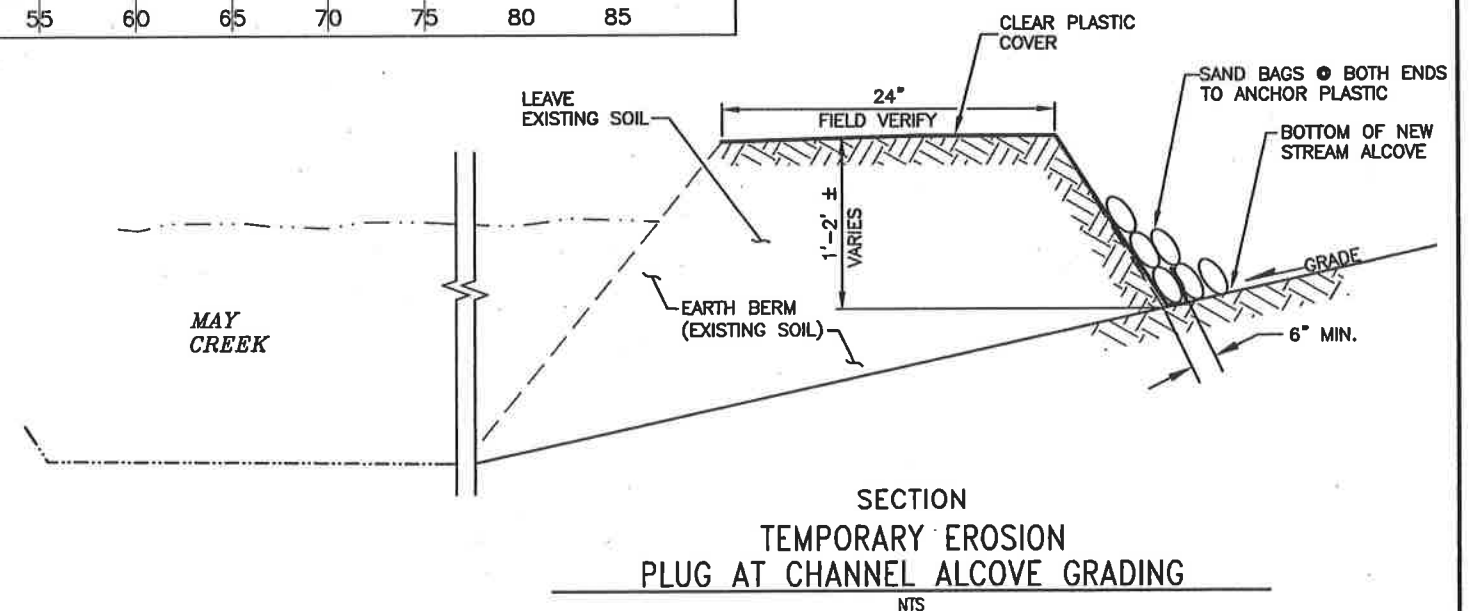
WETLAND AND RIPARIAN MITIGATION PLAN
STA 0+00 TO STA 7+00

SHEET
14
OF
27
SHEETS
2006-16




**TYPICAL SECTION
HABITAT MITIGATION ALCOVE GRADING
STATIONS 2+33 TO 3+04 AND 5+09 TO 5+53**
SCALE: H: 1"=10', V: 1"=10'

OHWM NOTE:
OLSON, P. AND E. STOCKDALE. 2010. DETERMINING THE ORDINARY HIGH WATER MARK ON STREAMS IN WASHINGTON STATE. SECOND REVIEW DRAFT. WASHINGTON STATE DEPARTMENT OF ECOLOGY, SHORELANDS 7 ENVIRONMENTAL ASSISTANCE PROGRAM, LACEY, WA. ECOLOGY PUBLICATION #08-08-001.
FIELD STAKED BY KING COUNTY ENGINEER III, ENVIRONMENTAL UNIT MARCH 2011.



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09056	01-2010	APPROVED: DON ALTHAUSER, P.E. <i>DAK</i>	5-28-13 5/2013	CONTRACT No. C00905C14 C00849C13		King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	MAY CREEK DRAINAGE IMPROVEMENT CROSS-SECTIONS AND HABITAT MITIGATION DETAILS	SHEET 15 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119				
SURVEY BASE MAP: KING COUNTY	02-2010	DESIGNED: DALE NELSON	5/2013	MAINTENANCE DIVISION No. 2				
TREVOR CRAY, PLS	02-2010	DESIGN ENTERED: M.R., K.K., L.T.	5/2013					
CHECKED: DALE NELSON	02-2010	1. UPDATE CONTRACT NO.	3/26/14					
		NUM.	REVISION	BY	DATE			

LWD INSTALLATION NOTES:

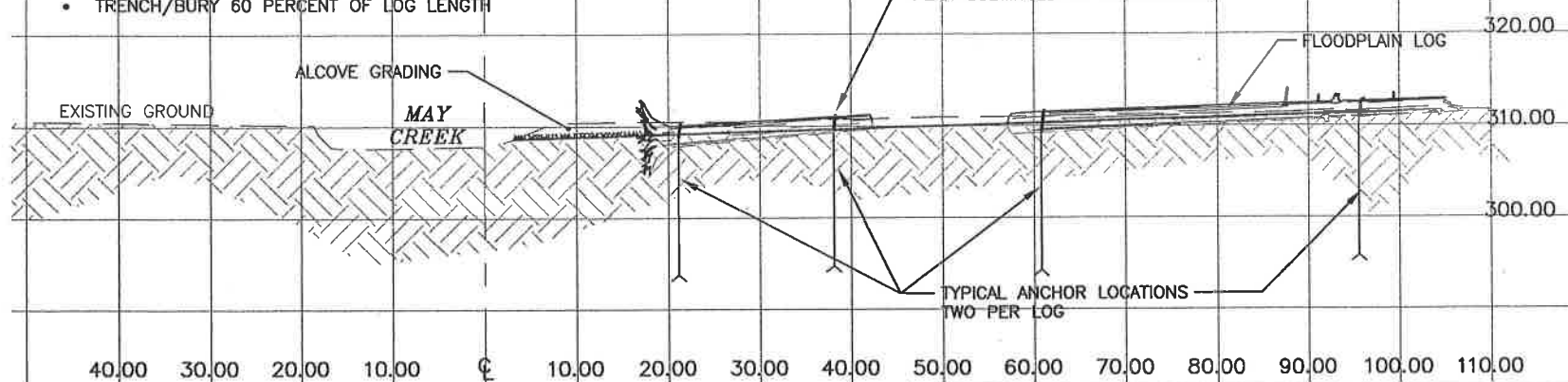
THE FOLLOWING METHODS OR COMBINATIONS SHALL BE USED TO REDUCE MOBILITY OF LWD:

- ANCHORS PER THE APPROVED ANCHORING PLAN SUBMITTED BY THE CONTRACTOR.
- EMBEDMENT OF 50 PERCENT SURFACE AREA OF LOGS
- TRENCH/BURY 60 PERCENT OF LOG LENGTH

ALCOVE LOG EMBEDDED

30 FOOT LOG, MIN. 12" DBH.

ANCHOR AS SHOWN IN THE APPROVED ANCHORING PLAN SUBMITTED BY CONTRACTOR.

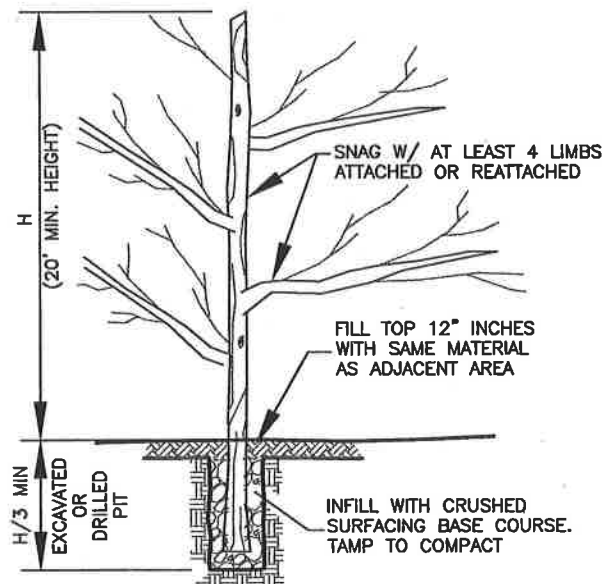


TYPICAL SECTION - HABITAT MITIGATION LOG PLACEMENT
HABITAT FLOODPLAIN AREA AND
ALCOVE STATIONS 2+33 TO 3+04 AND 5+09 TO 5+53

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

LOG TABLE

# of LOGS	LOG SIZE	LOG LENGTH	ROOTWAD OR WITHOUT (W/OUT)
ALCOVE AREAS			
7	18"-24" DBH, (LARGE)	30'	ROOTWADS
5	16"-18" DBH, (MEDIUM)	30'	ROOTWADS
4	12"-18" DBH, (SMALL)	30'	ROOTWADS
16 TOTAL			
FLOODPLAIN ROUGHNESS			
30	12"-14" DBH, (SMALLER)	30'	W/OUT
30	12"-18" DBH, (SMALL)	30'	ROOTWADS
60 TOTAL			
2		27'min	SNAGS
78 TOTAL			



SNAG DETAIL

NTS



ANCHORING NOTES:

1. HABITAT LOGS SHALL BE SECURED WITH A 5/16 INCH NON-GALVANIZED CHAIN, DOUBLE WRAPPED AROUND THE LOG ATTACHED TO AN EARTH ANCHOR OR EQUIVALENT THAT IS SIZED FOR THE COMBINED REQUIRED ANCHOR HOLDING STRENGTH BASED ON THE FOLLOWING: LARGE HABITAT LOG: 4,805 LB/EACH LOG; MEDIUM HABITAT LOG: 3,324 LB/EACH LOG; SMALL HABITAT LOG: 3,324 LB/EACH LOG. CHAIN JOINED WITH A LOK-A-LOY 10 CONNECTING LINK OR EQUIVALENT AND BALL PEEN THREAD TO LOCK NUT. CHAIN SHALL BE PLACED A MINIMUM DISTANCE FROM THE END OF THE LOG EQUAL TO 1/3 OF THE LOG LENGTH. SCORE LOGS TO A DEPTH OF 2 INCHES TO RECESS CHAIN. SLACK AT SURFACE SHALL BE 2 FEET LENGTH. EMBED ANCHORS A MINIMUM OF 15 FEET DEEP BELOW FINISH ELEVATION.
2. THE CONTRACTOR SHALL SUBMIT AN ANCHORING PLAN FOR REVIEW AND APPROVAL, 15 CALENDAR DAYS PRIOR TO PLACEMENT.
3. ANCHOR SETTINGS SHALL BE FIELD TESTED BY AN APPROVED METHOD TO CONFIRM THAT THE REQUIRED ANCHOR HOLDING STRENGTH IS MET.
4. THE CONTRACTOR SHALL INFORM THE ENGINEER A MINIMUM OF ONE DAY PRIOR TO ANCHOR INSTALLATION AND TESTING.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ONCE INSTALLATION IS COMPLETE. LOCATIONS OF THE HABITAT LOGS STRUCTURES TO BE STAKED IN THE FIELD BY KING COUNTY SURVEY.
6. IF REJECTION OR REFUSAL OF AN ANCHOR, AN ALTERNATIVE LOCATION SHALL BE IDENTIFIED BY THE ENGINEER.

SNAG NOTES:

1. WILDLIFE SNAGS TO BE PLACED AS DIRECTED BY ENGINEER OR BIOLOGIST.
2. ALL SNAGS SHALL BE WESTERN RED CEDAR OR DOUGLAS-FIR TREES WITH A SUBSTANTIAL PORTION OF THEIR LIMBS LEFT INTACT. DO NOT TRIM TOPS, AS DAMAGED OR BROKEN TOPS ARE PREFERRED. PROVIDE LOGS WITH NUMEROUS UNTRIMMED LIMBS, WITH A MINIMUM OF 6 LIMBS. LOGS USED FOR SNAGS MAY BE PARTIALLY HOLLOW AND CONTAIN CAVITIES AS LONG AS THEY ARE GENERALLY SOUND AND INTACT.
3. SNAGS SHALL BE A MINIMUM OF 10 INCHES IN DIAMETER AT BREAST HEIGHT (DBH) WHEN INSTALLED AND SHALL BE PLACED INTO THE GROUND TO A DEPTH EQUAL TO 1/3 OF TREE HEIGHT BELOW GROUND.
4. SNAGS WITH SUBSTANTIAL ROOT MASSES ATTACHED MAY BE PLACED TO THE DEPTH INDICATED AND BACKFILLED WITH QUARRY SPALLS AND SOIL ONLY UPON APPROVAL BY THE ENGINEER.

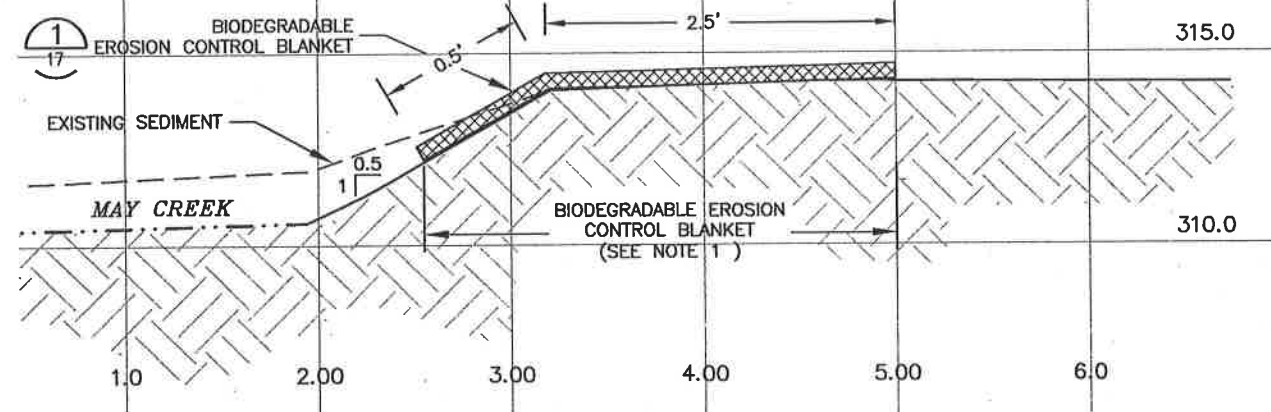
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09056	01-2010	APPROVED: DON ALTHAUSER, P.E. <i>DAH</i>	5-28-13 5/2013	CONTRACT No. C00905C14 C00849C13		King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	MAY CREEK DRAINAGE IMPROVEMENT LOG PLACEMENT, LOG TABLE, ANCHORING NOTES, SNAG DETAIL AND NOTES	SHEET 16 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119				
SURVEY BASE MAP: KING COUNTY	02-2010	DESIGNED: DALE NELSON	5/2013					
TREVOR CRAY, PLS	02-2010	DESIGN ENTERED: M.R., K.K., L.T.	5/2013	MAINTENANCE DIVISION No. 2				
CHECKED: DALE NELSON	02-2010	1. UPDATE CONTRACT NO.	3/26/14					
		NUM. REVISION	BY DATE					

NOTES:

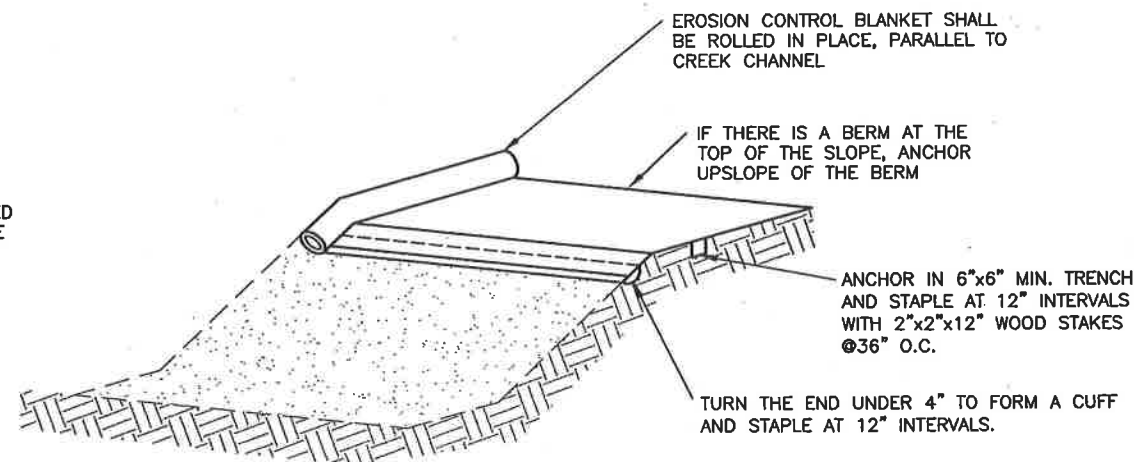
1. APPLY BIODEGRADABLE EROSION CONTROL BLANKET TO EXPOSED SOIL LANDWARD OF TOP OF SLOPE, IN REED CANARY GRASS REMOVAL AREAS, STA. 0+00 TO 29+00, AND A MAXIMUM 6" DOWN CUT SLOPE.



TYPICAL SECTION
FABRIC APPLICATION

NTS

1. NOTES:
SLOPE SURFACE SHALL BE SMOOTH BEFORE PLACEMENT FOR PROPER SOIL CONTACT.
2. STAPLING PATTERN AS PER MANUFACTURER'S RECOMMENDATIONS.
3. WOOD STAKES PATTERN AS SPECIFIED.
4. DO NOT STRETCH COCONUT FIBER MATTING TIGHT - ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES.
5. FOR SLOPES LESS THAN 3H:1V, ROLLS MAY BE PLACED IN HORIZONTAL STRIPS WITH THE OVERLAP DOWNSLOPE AND DOWNSTREAM. ANCHORING SHALL BE SIMILAR.
6. SEED BEFORE MATTING INSTALLATION. PLANTING OF SHRUBS, TREES, ETC. SHOULD OCCUR AFTER INSTALLATION.



BIODEGRADABLE EROSION CONTROL BLANKET

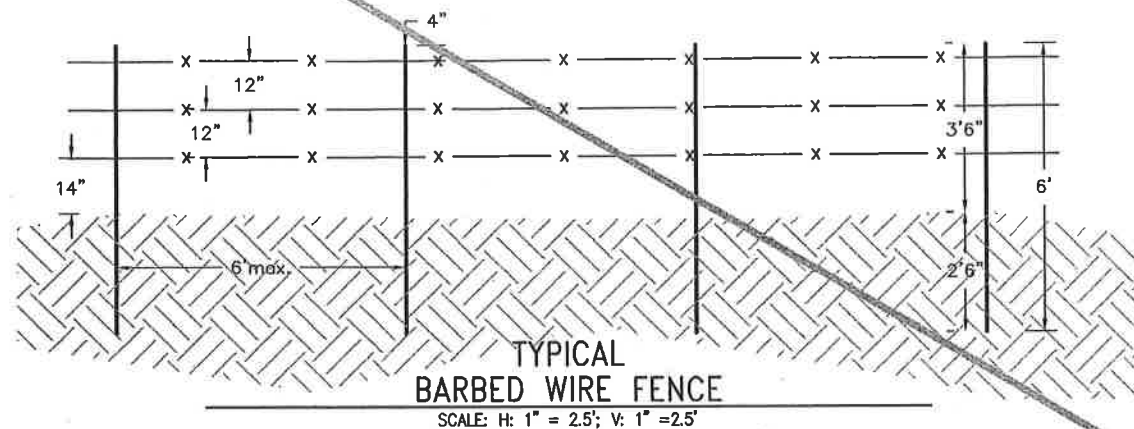
NTS

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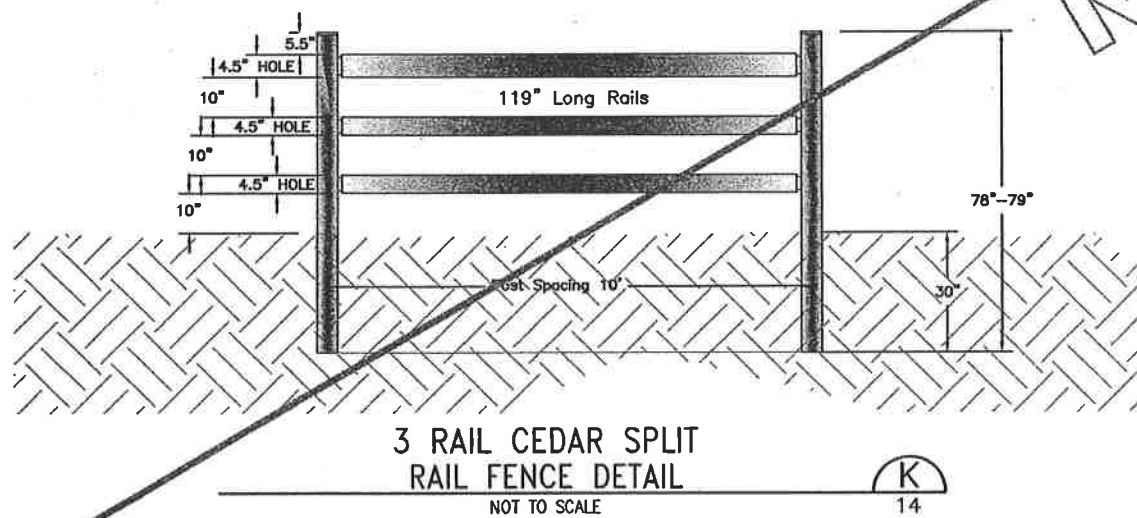
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FIELD BOOK: 09056	01-2010					APPROVED: DON ALTHAUSER, P.E.	5-28-13 5/2013	CONTRACT No. C00905C14 000849013			King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	MAY CREEK DRAINAGE IMPROVEMENT HABITAT MITIGATION DETAILS FABRIC APPLICATION	SHEET 17 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119					
SURVEY BASE MAP: KING COUNTY	02-2010					DESIGNED: DALE NELSON	5/2013						
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CHECKED: DALE NELSON	02-2010					1. UPDATE CONTRACT NO.	3/26/14						
		NUM.	REVISION	BY	DATE								



- BARBED WIRE FENCE INSTALLATION NOTES:
1. INSTALL ON PERIMETER OF CONSERVATION EASEMENT,
BOTH BANKS, FROM STATION 7+50 TO STATION 29+00.
2. USE EXISTING PROPERTY FENCING WHERE AVAILABLE.



- 3-RAIL CEDAR SPLIT RAIL FENCE INSTALLATION NOTE:
1. INSTALL ON PERIMETER OF WETLAND MITIGATION
AREA PER SHEET 14.

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SURVEYED: KING COUNTY	01-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119					
SURVEY BASE MAP: KING COUNTY	02-2010					DESIGNED: DALE NELSON	5/2013	MAINTENANCE DIVISION No. 2					
TREVOR CRAY, PLS	02-2010					DESIGN ENTERED: M.R., K.K., L.T.	5/2013						
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May Creek Riparian Buffer Planting-
Seasonally Saturated Areas,
Stations 0+00 to 7+00, 13+50 to 19+00

Latin Name	Common Name	Size/Specifications	Quantity
Trees			
<i>Alnus rubra</i>	Red alder	6-8' Height Plant 9' O.C.	105
<i>Picea sitchensis</i>	Sitka spruce	5 gal., 5-6' Height Full Dense Foliage Plant 9' O.C.	105
<i>Populus balsamifera</i> spp. <i>trichocarpa</i>	Black cottonwood	6' stake, top on, 1" diameter Plant 9' O.C.	105
<i>Thuja plicata</i>	Western red cedar	5 gal., 5-6' Height Full Dense Foliage Plant 9' O.C.	105
Shrubs/Willows			
<i>Cornus sericea</i>	Red-osier dogwood	Live Stakes, 3' Long, 1/2"-1" Diameter Plant 3' O.C.	1100
<i>Salix lasiandra</i>	Pacific willow	Live Stakes, 6' Long, 1/2-1" Diameter Plant 3' O.C.	1100
<i>Salix sitchensis</i>	Sitka willow	Live Stakes, 6' Long, 1/2-1" Diameter Plant 3' O.C.	1100

May Creek Riparian Buffer Planting-
Permanently Saturated Areas,
Stations 7+00 to 13+50, 19+00 to 29+00

Latin Name	Common Name	Size/Specifications	Quantity
TREES			
<i>Fraxinus latifolia</i>	Oregon Ash	5'-6' height Plant 9' O.C	625
SHRUBS			
<i>Cornus sericea</i>	Red-osier dogwood	Live Stakes 3' long, 1/2"-1" diameter. Plant 3' O.C.	1,700
<i>Salix lasiandra</i>	Pacific willow	Live Stakes, 6' Long, 1/2-1" Diameter Plant 3' O.C.	1,700
<i>Salix sitchensis</i>	Sitka willow	Live Stakes, 6' Long, 1/2-1" Diameter Plant 3' O.C.	1,700

May Creek Alcoves Planting Plan -
west of 148th Avenue SE

Latin Name	Common Name	Size/Specifications	Quantity
Emergents - for alcoves near stream			
<i>Scirpus acutus</i>	Hardstem bulrush	Plug (Plant 12" O.C.)	500
<i>Eleocharis palustris</i>	Common spike-rush	Plug (Plant 12" O.C.)	500
<i>Carex stipata</i>	Sawbeak sedge	Plug (Plant 12" O.C.)	500
Shrubs/Willows			
<i>Cornus sericea</i>	Red-osier dogwood	Bare root, mi. 12" long Plant 3' O.C.	175
<i>Physocarpus capitatus</i>	Pacific ninebark	Bare root, mi. 12" long Plant 3' O.C.	150
<i>Rosa pisocarpa</i>	Pea fruited rose	Bare root, mi. 12" long Plant 3' O.C.	250
<i>Rubus spectabilis</i>	Salmonberry	Bare root, mi. 12" long Plant 3' O.C.	150
<i>Salix sitchensis</i>	Sitka willow	Live Stakes Minimum 6' Long 3/4-1" Diameter Plant 3' O.C.	300
<i>Salix lasiandra</i>	Pacific willow	Live stakes Minimum 6' long Minimum 3/4" -1" diameter Plant 3' O.C.	300
<i>Populus trichocarpa</i>	Black Cottonwood	Live pole cutting Minimum 6' long Minimum 3/4"-1" diameter Plant 3' O.C.	250

May Creek Wetland Enhancement Planting *
Plan - west of 148th Ave SE

Total Area: Approximately 130,680 square feet (3 acres)			
Latin Name	Common Name	Size/Specifications	Quantity
<i>Populus trichocarpa</i>	Black Cottonwood	6' stake, top on, 1" diameter Plant 9' O.C	7,000
<i>Cornus sericea</i>	Red-osier dogwood	Bare root, Minimum 12" Long Plant 3' O.C.	300
<i>Salix lasiandra</i>	Pacific willow	Live Stakes, 6' Long, 1/2-1" Diameter Plant 3' O.C.	8,000
<i>Salix sitchensis</i>	Sitka willow	Live Stakes, 6' Long, 1/2-1" Diameter Plant 3' O.C.	8,000

*PLANTS WILL BE INSTALLED THROUGH PROPEX (OR EQUIVALENT). SEE
NOTES ON SHEET 16.



MITIGATION PLAN NOTES

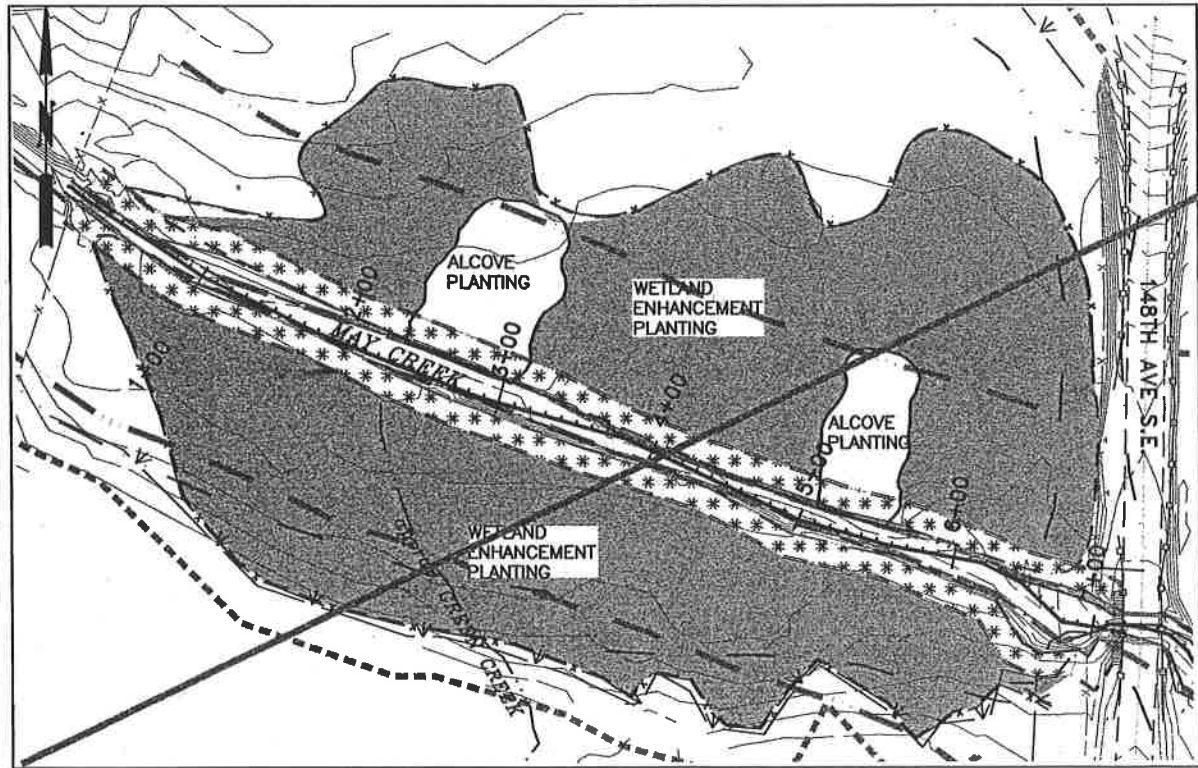
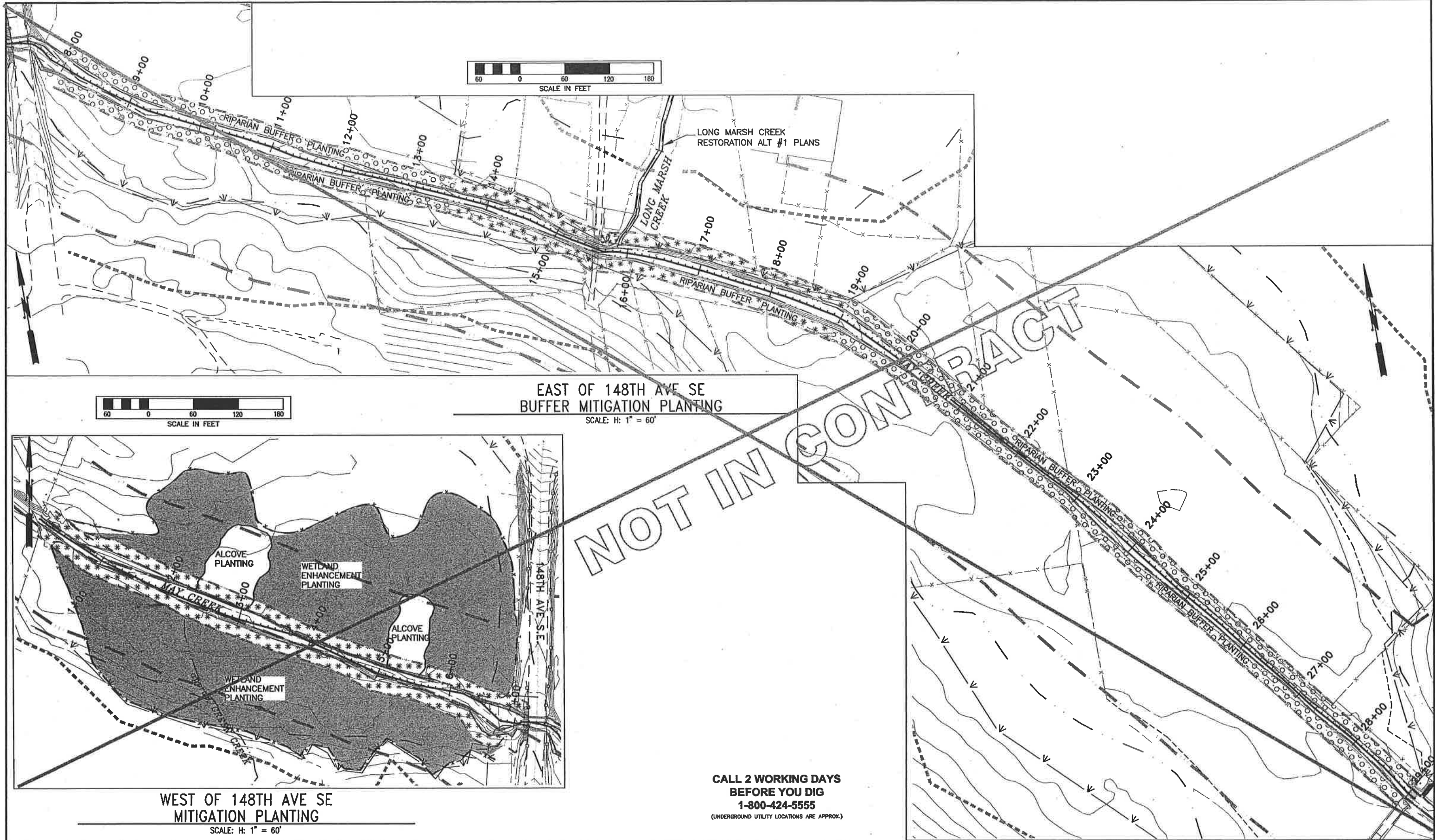
PLANTING NOTES

- MITIGATION PLANTING PLANS REPRESENT A CONCEPTUAL PLANT LAYOUT. ALL MITIGATION PLANTING PREPARATION WILL BE DIRECTED IN THE FIELD BY THE ECOLOGIST.
- PLANTING SHALL TAKE PLACE DURING THE DORMANT SEASON (OCTOBER 15TH THROUGH MARCH 31ST). PLANTING MAY BE ALLOWED AT OTHER TIMES AFTER REVIEW AND WRITTEN APPROVAL BY THE ECOLOGIST.
- APPLY SHEET MULCH AS DIRECTED BY ECOLOGIST WITHIN THE FLOODPLAIN EXCAVATION AREAS AND ALL PLANTING AREAS.
- IN ALL PLANTING AREAS WHERE REED CANARY GRASS IS PRESENT, COVER REED CANARY GRASS WITH SHEET MULCH (OR A SIMILAR BARRIER MATERIAL AS APPROVED BY THE ECOLOGIST) AS NEEDED AND DIRECTED BY ECOLOGIST. STAKE IN PLACE USING LIVE STAKES.
- PLANT STAKES AND TREES AS DIRECTED BY THE ECOLOGIST THROUGH THE SHEET MULCH (OR EQUIVALENT).
- NO TACKIFIER, HERBICIDE, OR FERTILIZER SHALL BE USED IN THE PLANTING AREAS.

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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09058	01-2010					APPROVED: DON ALTHAUSER, P.E. <i>DAH</i>	5-25-13 5/2013	CONTRACT No. C00905C14 C00849C13			 King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit <i>Christie True, Director</i>	MAY CREEK DRAINAGE IMPROVEMENT PLANTING TABLES AND NOTES (NIC)	SHEET 19 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010				PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119						
SURVEY BASE MAP: KING COUNTY	02-2010				DESIGNED: DALE NELSON	5/2013							
TREVOR CRAY, PLS	02-2010				DESIGN ENTERED: M.R., K.K., L.T.	5/2013	MAINTENANCE DIVISION No. 2						
CHECKED: DALE NELSON	02-2010												
		1.	UPDATE CONTRACT NO.		3/26/14								
		NUM.	REVISION	BY	DATE								




WEST OF 148TH AVE SE
MITIGATION PLANTING

SCALE: H: 1" = 60'

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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 09056	01-2010					APPROVED: DON ALTHAUSER, P.E. <i>DA</i>	5-28-13 5/2013	CONTRACT No. C00905C14 C00849613			King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie Trus, Director	MAY CREEK DRAINAGE IMPROVEMENT PLANTING PLAN (NIC)	SHEET 20 OF 27 SHEETS 2006-16
SURVEYED: KING COUNTY	01-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048119					
SURVEY BASE MAP: KING COUNTY	02-2010					DESIGNED: DALE NELSON	5/2013						
TREVOR CRAY, PLS	02-2010					DESIGN ENTERED: M.R., K.K., L.T.	5/2013	MAINTENANCE DIVISION No. 2					
CHECKED: DALE NELSON	02-2010												
		1.	UPDATE CONTRACT NO.		3/26/14								
		NUM.	REVISION	BY	DATE								

SEC. 22, TWN.25N, R. 5 E, W.M.

CONSTRUCTION SEQUENCE:

1. HOLD PRE-CONSTRUCTION MEETING AND NOTIFY PERMIT AUTHORITIES OF THE PROJECT START DATE.
2. KING COUNTY SURVEYORS WILL FLAG THE CLEARING AND GRADING LIMITS AS SHOWN ON THE PLANS.
3. TREES TO BE PRESERVED SHALL BE FLAGGED BY THE KING COUNTY ECOLOGIST.
4. INSTALL SILT FENCES WHERE DESIGNATED ON THE PLANS. IMPLEMENT THE TESC PLAN. PREVENT SEDIMENT FROM ENTERING THE WATER AT ALL TIMES. INSTALL ADDITIONAL TESC MEASURES TO SUIT THE CONDITIONS AT THE TIME OF CONSTRUCTION AND AS REQUESTED BY THE KING COUNTY ENGINEER OR ECOLOGIST.
5. DIVERT LONG MARSH CREEK FLOWS PER THE STREAM DIVERSION AND DEWATERING PLAN. SEE NOTE 3, SHEET 24.
6. EXCAVATION WITHIN THE STREAM CHANNEL SHALL TAKE PLACE ONLY DURING THE FISH WINDOW AS DESIGNATED IN THE HPA.
7. FINAL GRADE/STREAM CHANNEL ELEVATIONS ARE SHOWN ON THE PLAN. OVEREXCAVATION OF ROUGHLY 6 INCHES AND BACKFILLING WITH STREAMBED MIX IS REQUIRED WITHIN THE LONG MARSH LOW FLOW CHANNEL AND THE MAY CREEK SIDE CHANNEL. EXISTING ONSITE STREAMBED MIX MAY BE REUSED.
8. WHILE EXCAVATING THE SIDE CHANNEL IN MAY CREEK, AN EARTH PLUG SHALL BE LEFT BETWEEN THE EXISTING STREAM CHANNEL AND THE EXCAVATION. A FLOATING TURBIDITY CURTAIN SHALL BE DEPLOYED PRIOR TO REMOVAL OF THE EARTH PLUG PER TESC NOTE NO. 7 SHEET 24.
9. CHANNEL/BENCH WIDTHS AND LARGE WOOD PLACEMENT ARE TO BE ADJUSTED IN THE FIELD BY THE KING COUNTY ENGINEER OR ECOLOGIST.
10. OVEREXCAVATE AND EMBED AT LEAST HALF OF THE LENGTH OF THE LARGE WOOD PIECES UNDER BACKFILL AND BOULDERS.
11. REMOVE THE TESC MEASURES AND FLAGGING.
12. RESTORE AND/OR RESEED ANY AREAS THAT WERE DISTURBED BY THE CONSTRUCTION.

NOTES:

1. FOR CLARITY, NOT ALL NEW LARGE WOOD IS SHOWN ON PLAN VIEW.
2. FOR CLARITY, EXISTING TREES ARE NOT SHOWN ON PLAN VIEW.

STATIONING:

- BEGIN SIDE CHANNEL STA. 15+81
- END SIDE CHANNEL STA. 16+56.97
- STA. EQUATION STA. 0+42.07 MAY CREEK SIDE CHANNEL = STA. 0+00 LONG MARSH CREEK NEW LOW FLOW CHANNEL

CONSTRUCTION DETAILS:

- FOR CONSTRUCTION ACCESS REMOVE EXISTING FENCE ALONG TOP OF BANK. REPLACE WITH WIRE FENCE TYPE 2, WSDOT STD PLAN L-10.10-02.
- REMOVE EXISTING FENCE FOR CONSTRUCTION ACCESS ALONG TOP OF BANK. REPLACE WITH WIRE FENCE TYPE 2, WSDOT STD PLAN L-10.10-02.
- NEW LOW FLOW CHANNEL
- EXISTING LONG MARSH CREEK
- LOW FLOW CHANNEL WIDTH 7'
- LOG AND BOULDER DETAIL
- PROVIDE ROUNDED BOULDERS, COBBLES AND GRAVEL FOR PROTECTION AT THE CULVERT OUTLET. OUTLET PROTECTION SHALL EXTEND 14 FT. DOWNSTREAM OF THE CULVERT AND BE 10 FT. WIDE BY 2 FT. DEEP.
- EXIST 42" Ø CULVERT
- PROPERTY LINE
- MAY CREEK - MAIN STEM
- MAY CREEK SIDE CHANNEL
- LONG MARSH CREEK
- MAY VALLEY RD SE

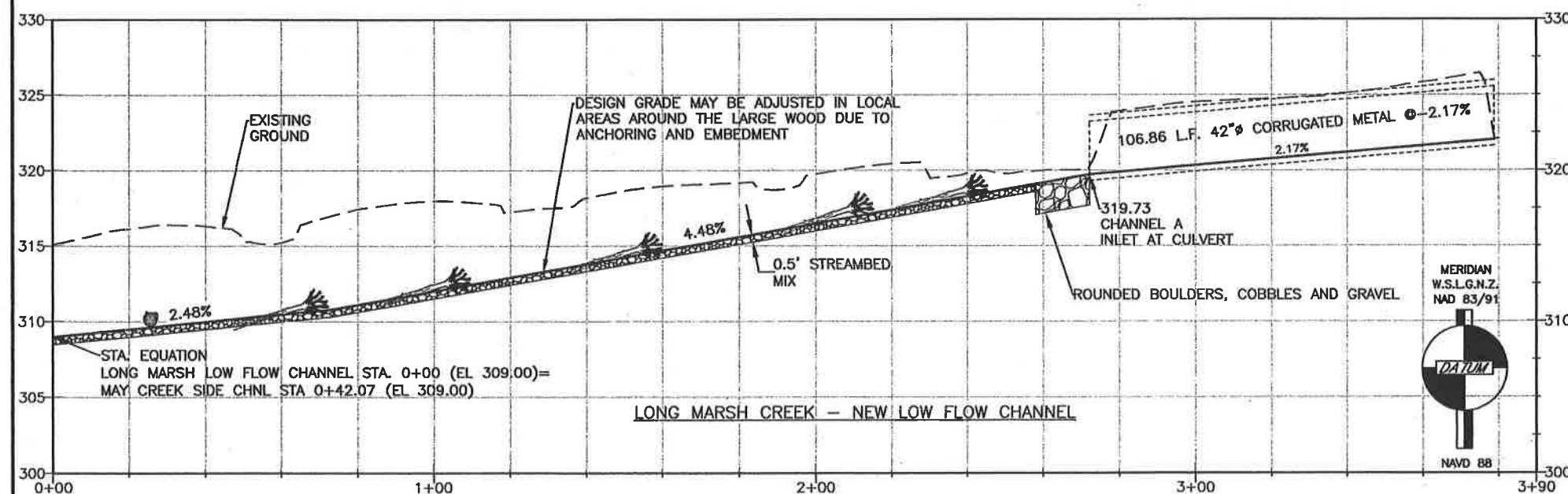
SCALE:

SCALE IN FEET
CONTOUR INTERVAL = 2 FT.

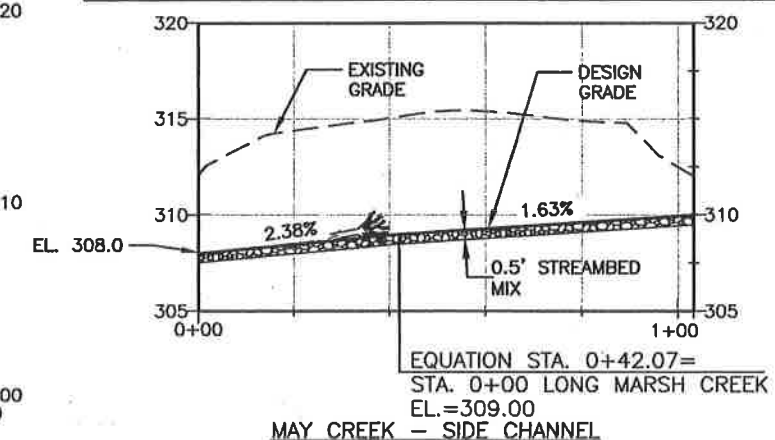
ADDITIONAL INFORMATION:

- HAROLD GAMBINI, JR
15019 S.E. MAY VALLEY RD
(9091)
- WHITNEY & JEFFREY WALKER
15125 S.E. MAY VALLEY RD
(9084)

1. HOLD PRE-CONSTRUCTION MEETING AND NOTIFY PERMIT AUTHORITY OF THE PROJECT START DATE.
2. KING COUNTY SURVEYORS WILL FLAG THE CLEARING AND GRADING LIMITS AS SHOWN ON THE PLANS.
3. TREES TO BE PRESERVED SHALL BE FLAGGED BY THE KING COUNTY ECOLOGIST.
4. INSTALL SILT FENCES WHERE DESIGNATED ON THE PLANS. IMPLEMENT THE TESC PLAN. PREVENT SEDIMENT FROM ENTERING THE WATER AT ALL TIMES. INSTALL ADDITIONAL TESC MEASURES TO SUIT THE CONDITIONS AT THE TIME OF CONSTRUCTION AND AS REQUESTED BY THE KING COUNTY ENGINEER OR ECOLOGIST.
5. DIVERT LONG MARSH CREEK FLOWS PER THE STREAM DIVERSION AND DEWATERING PLAN. SEE NOTE 3, SHEET 24.
6. EXCAVATION WITHIN THE STREAM CHANNEL SHALL TAKE PLACE ONLY DURING THE FISH WINDOW AS DESIGNATED IN THE HPA.
7. FINAL GRADE/STREAM CHANNEL ELEVATIONS ARE SHOWN ON THE PLAN. OVEREXCAVATION OF ROUGHLY 6 INCHES AND BACKFILLING WITH STREAMBED MIX IS REQUIRED WITHIN THE LONG MARSH LOW FLOW CHANNEL AND THE MAY CREEK SIDE CHANNEL. EXISTING ONSITE STREAMBED MIX MAY BE REUSED.
8. WHILE EXCAVATING THE SIDE CHANNEL IN MAY CREEK, AN EARTH PLUG SHALL BE LEFT BETWEEN THE EXISTING STREAM CHANNEL AND THE EXCAVATION. A FLOATING TURBIDITY CURTAIN SHALL BE DEPLOYED PRIOR TO REMOVAL OF THE EARTH PLUG PER TESC NOTE NO. 7 SHEET 24.
9. CHANNEL/BENCH WIDTHS AND LARGE WOOD PLACEMENT ARE TO BE ADJUSTED IN THE FIELD BY THE KING COUNTY ENGINEER OR ECOLOGIST.
10. OVEREXCAVATE AND EMBED AT LEAST HALF OF THE LENGTH OF THE LARGE WOOD PIECES UNDER BACKFILL AND BOULDERS.
11. REMOVE THE TESC MEASURES AND FLAGGING.
12. RESTORE AND/OR RESEED ANY AREAS THAT WERE DISTURBED BY THE CONSTRUCTION.



LOCATION	KEY (LARGE) LWD PIECES 18"-24" DBH, 20'-25' LONG	SMALL & MEDIUM LWD 12"-18" DBH, 20'-25' LONG
LONG MARSH CREEK CHANNEL	9	25
MAY CREEK SIDE CHANNEL	3	5
TOTAL	12	30



**CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555**
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2010-2	9-2010					APPROVED: DON ALTHAUER, P.E.	5-28-13 5/2013	CONTRACT No. C00905C14 C00049013
SURVEYED: GOULET, RADELLA	8-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048164
SURVEY BASE MAP: RADELLA	9-2010					DESIGNED: WES KAMEDA, P.E.	5/2013	
CHECKED: DALE NELSON	9-2010					JULIA TURNEY, L.G.	5/2013	
		1.	UPDATE CONTRACT NO.		3/26/14	DESIGN ENTERED: L. TRAXINGER, K. KITAMURA	5/2013	MAINTENANCE DIVISION No. 2
		NUM.	REVISION	BY	DATE			



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 Stormwater Services Section
Capital Services Unit
Christie True, Director

LONG MARSH CREEK SEDIMENT MANAGEMENT
CONFLUENCE TO R.M. 0.05

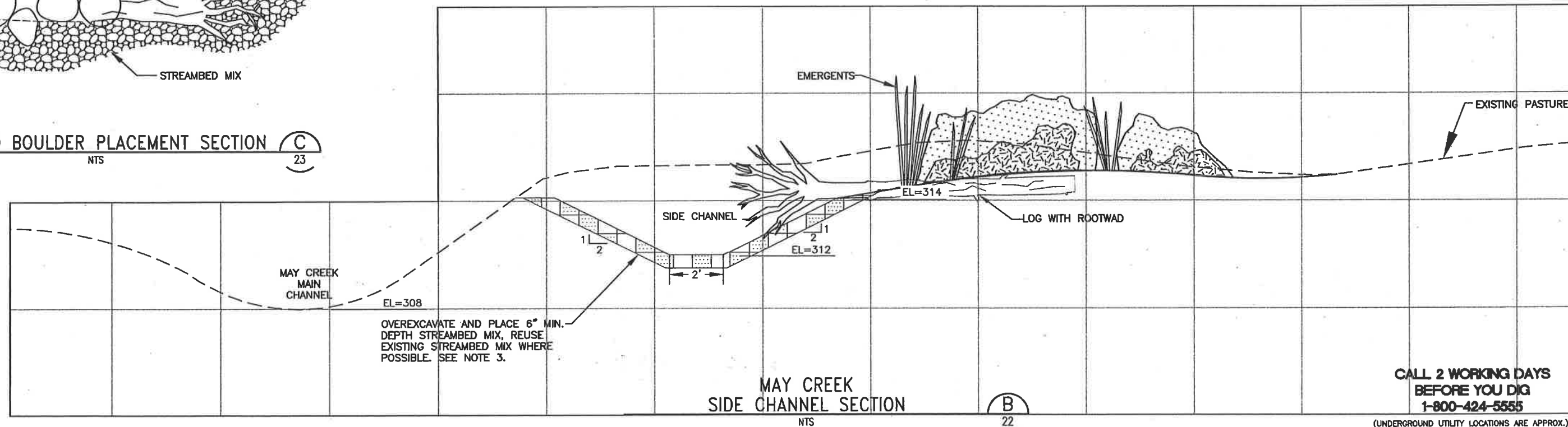
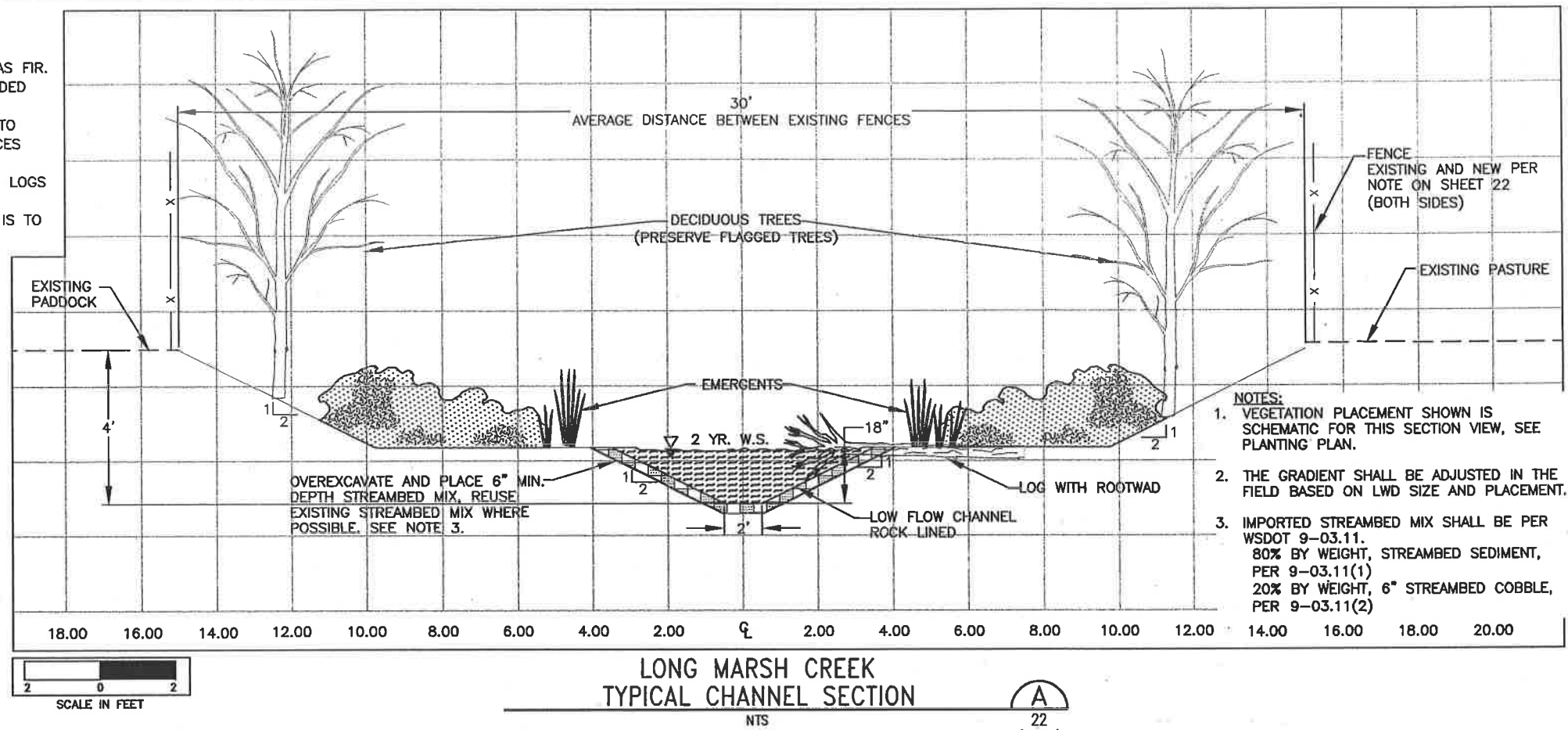
GRADING PLAN AND PROFILE
LONG MARSH CREEK-MAY CREEK SIDE CHANNEL
(ALTERNATE #1)

2

SHEET
22
OF
27
SHEETS

006-42

1. USE LOGS WITH ROOT WAD ATTACHED.
2. LOGS SHALL BE WESTERN RED CEDAR OR DOUGLAS FIR.
3. BOULDERS SHALL BE GLACIALLY WORN AND ROUNDED AND 28-INCHES TO 38-INCHES IN DIAMETER.
4. LOGS SHALL BE EXCAVATED OR INCORPORATED INTO THE SURROUNDING BANK CONTOURING OR TERRACES PLACED PER DETAIL.
5. BOULDERS SHALL BE USED TO AID IN ANCHORING LOGS AND TO INCREASE HABITAT COMPLEXITY.
6. THE EXACT PLACEMENT OF LOGS AND BOULDERS IS TO BE DIRECTED BY THE ENGINEER IN THE FIELD.



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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2010-2		9-2010					APPROVED: DON ALTHAUER, P.E.	5-28-13 5/2013
SURVEYED: GOULET, RADELLA		8-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013
SURVEY BASE MAP: RADELLA		9-2010					DESIGNED: WES KAMEDA, P.E.	5/2013
CHECKED: DALE NELSON		9-2010					JULIA TURNEY, L.G.	5/2013
							DESIGN ENTERED: L. TRAXINGER, K. KITAMURA	5/2013
		1.	UPDATE CONTRACT NO.		3/26/14			
		NUM.	REVISION	BY	DATE			

C00905C14
CONTRACT No. ~~C00849C13~~
PROJECT No. 1048164
MAINTENANCE
DIVISION No. 2



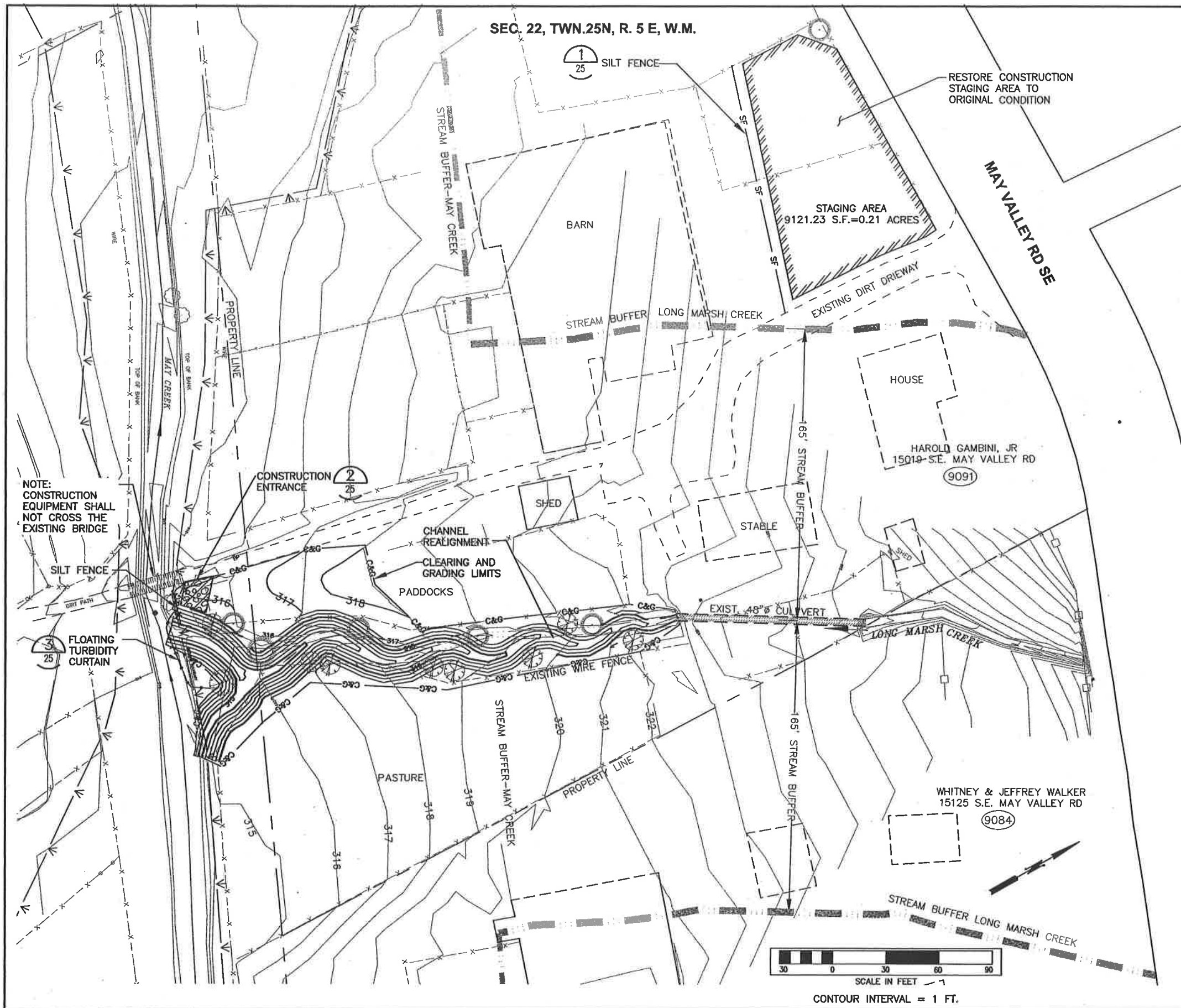
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 Stormwater Services Section
Capital Services Unit
Christie True, Director

LONG MARSH CREEK SEDIMENT MANAGEMENT
CONFLUENCE TO R.M. 0.05

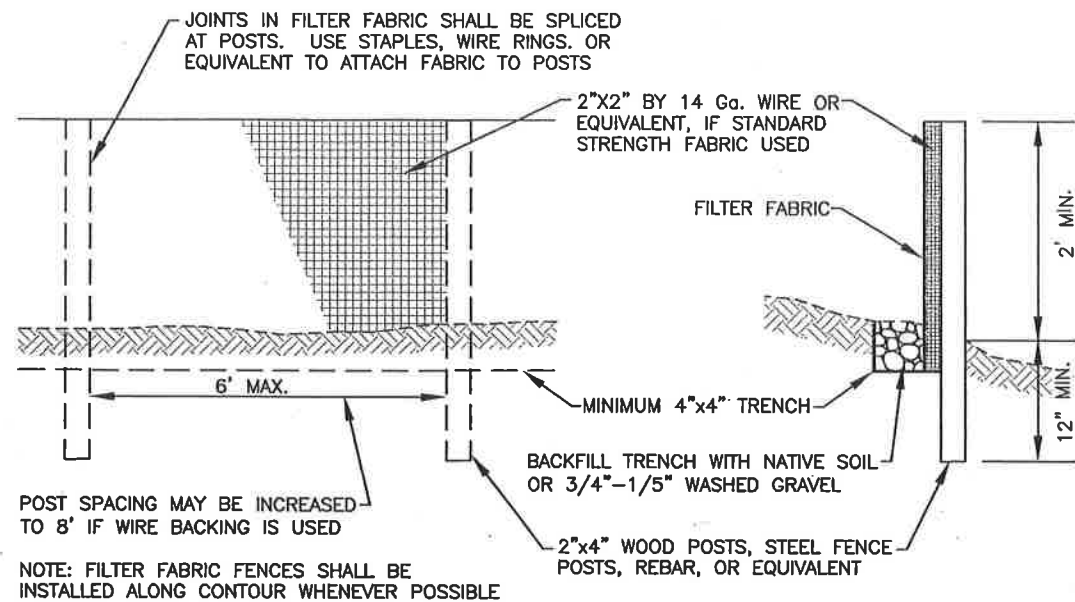
CROSS SECTIONS AND LOG DETAILS
LONG MARSH CREEK-MAY CREEK SIDE CHANNEL
(ALTERNATE #1)

SHEET
23
OF
27
SHEETS

2006-42



FIELD BOOK: 2010-2	9-2010	APPROVED: DON ALTHAUSER, P.E. <i>DAH</i> 5-28-13	5/2013	CONTRACT No. C00905C14			King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	LONG MARSH CREEK SEDIMENT MANAGEMENT CONFLUENCE TO R.M. 0.05 TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AND NOTES (ALTERNATE #1)	SHEET 24 OF 27 SHEETS 2006-42
SURVEYED: GOULET, RADELLA	8-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048164					
SURVEY BASE MAP: RADELLA	9-2010	DESIGNED: WES KAMEDA, P.E.	5/2013	MAINTENANCE DIVISION No. 2					
CHECKED: DALE NELSON	9-2010	JULIA TURNEY, L.G.	5/2013						
1. UPDATE CONTRACT NO.		3/26/14	DESIGN ENTERED: L. TRAXINGER, K. KITAMURA	5/2013					
NUM.	REVISION	BY	DATE						

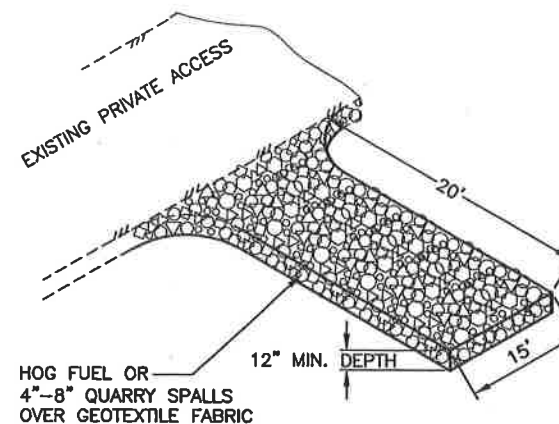


SILT FENCE DETAIL

NTS

1

24



TEMPORARY CONSTRUCTION ENTRANCE

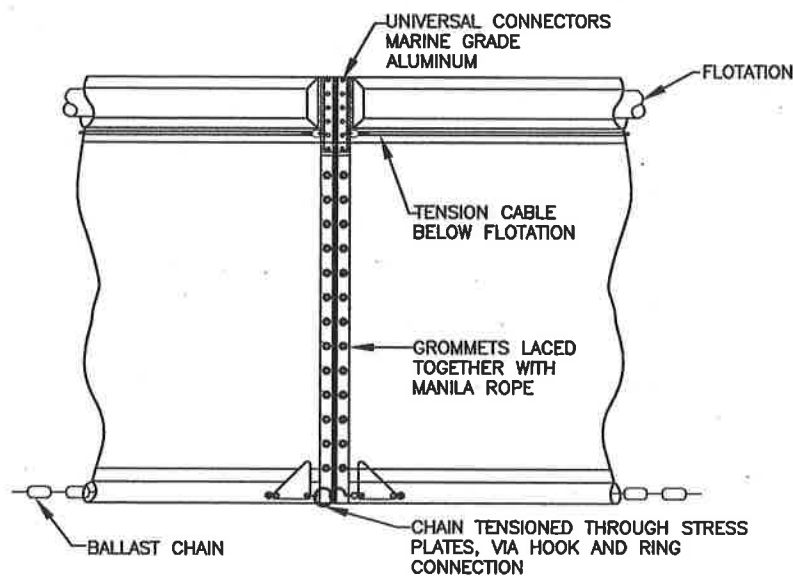
NTS

2

24

CONSTRUCTION ENTRANCE NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL 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.
2. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. PROVIDE TRAFFIC CONTROL AND ROAD SIGNAGE FOR CONSTRUCTION VEHICLES ENTERING AND LEAVING SITE.
4. COORDINATE WITH THE PROPERTY OWNER REGARDING THE EXACT SIZE AND LOCATION OF THE TEMPORARY CONSTRUCTION ENTRANCE TO AVOID DISRUPTION OF THE HORSE BOARDING ACTIVITY ON THIS PROPERTY. THE CONTRACTOR SHALL REMOVE THE QUARRY SPALLS AFTER CONSTRUCTION.
5. HOG FUEL MAY BE SUBSTITUTED FOR THE QUARRY SPALLS DEPENDING ON WEATHER CONDITIONS, AS DIRECTED BY ENGINEER.



FLOATING TURBIDITY CURTAIN (TYPICAL)

NOT TO SCALE

3

24

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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2010-2	9-2010					APPROVED: DON ALTHAUSER, P.E. <i>DJA</i> 5-28-13 5/2013	CONTRACT No. C00905C14 000049013		King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie Trus, Director	LONG MARSH CREEK SEDIMENT MANAGEMENT CONFLUENCE TO R.M. 0.05 TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS (ALTERNATE #1)	SHEET 25 OF 27 SHEETS 2006-42
SURVEYED: GOULET, RADELLA	8-2010					PROJECT MANAGER: DOUG CHIN, PMP 5/2013	PROJECT No. 1048164				
SURVEY BASE MAP: RADELLA	9-2010					DESIGNED: WES KAMEDA, P.E. 5/2013 JULIA TURNEY, L.G. 5/2013	MAINTENANCE DIVISION No. 2				
CHECKED: DALE NELSON	9-2010					DESIGN ENTERED: L. TRAXINGER, K. KITAMURA 5/2013					
		1.	UPDATE CONTRACT NO.		3/26/14						
		NUM.	REVISION	BY	DATE						

SEC. 22, TWN.25N, R. 5 E, W.M.

HAROLD GAMBINI, JR
15019 S.E. MAY VALLEY RD
(9091)

MAY VALLEY RD SE

INSTALL NEW FENCE
ALONG PROJECT LIMITS
AS NEEDED

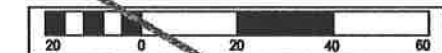
CLEARING AND GRADING LIMITS

INSTALL NEW FENCE
ALONG PROJECT LIMITS
AS NEEDED

NOTE:
PLANT LOCATIONS SHALL BE
ADJUSTED TO ACCOMMODATE LARGE
WOODY DEBRIS PLACEMENT

PLANTING NOTES:


1. PRIOR TO MITIGATION CONSTRUCTION, CLEARING LIMITS SHALL BE CLEARLY IDENTIFIED WITH ORANGE PLASTIC FENCING. KING COUNTY'S BIOLOGIST SHALL VERIFY AND APPROVE FENCE LOCATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ARRANGE TO MEET ON SITE WITH ENGINEER AND BIOLOGIST PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO DISCUSS ACCESS, LIMITS OF WORK AND METHODS.
3. MITIGATION PLANTING PLANS REPRESENT A CONCEPTUAL PLANT LAYOUT. FINAL PLANT LOCATIONS SHALL BE DETERMINED AT THE TIME OF PLANTING BY THE BIOLOGIST.
4. WITHIN ALL DISTURBED AREAS TO BE PLANTED OR SEEDED, PROVIDE AND INSTALL FOUR (4) INCH DEPTH OF COMPOST ROTOTILLED TO A TWELVE (12) INCH MINIMUM DEPTH.
5. ALL PLANTS SHALL BE NURSERY GROWN A MINIMUM OF ONE YEAR. PLANT MATERIAL IS TO BE SUPPLIED BY COMMERCIAL NURSERIES THAT SPECIALIZE IN PLANTS NATIVE TO THE PUGET SOUND REGION OF THE PACIFIC NORTHWEST. PLANT SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY KING COUNTY'S BIOLOGIST.
6. PLANTING SHALL TAKE PLACE DURING THE PLANT DORMANCY PERIOD (NOVEMBER 1ST TO MARCH 1ST), OR AS DIRECTED BY KING COUNTY'S BIOLOGIST.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND EXCESS SOIL EXCAVATED BY THIS PROJECT.
8. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
9. EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AND SEEDED, AS DIRECTED BY THE ENGINEER.
10. DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND BIOLOGIST PRIOR TO PROCEEDING.
11. NO TACKIFIER, HERBICIDE OR FERTILIZER SHALL BE USED IN THE STREAM PLANTING AREAS.



CONTOUR INTERVAL = 1 FT.

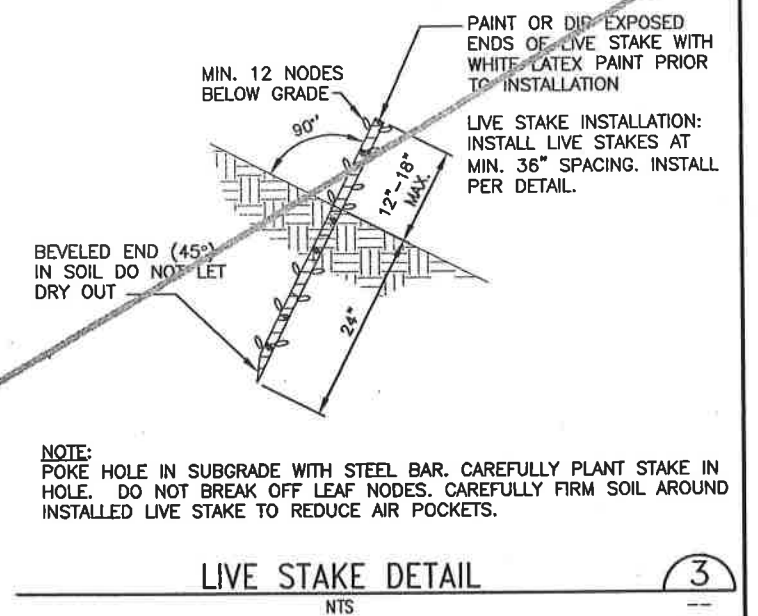
CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2010-2	9-2010					APPROVED: DON ALTHAUSER, P.E. <i>DALE</i>	5-28-13 5/2013	CONTRACT No. C00905C14 000849013			King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	LONG MARSH CREEK SEDIMENT MANAGEMENT CONFLUENCE TO R.M. 0.05 PLANTING PLAN AND NOTES (NIC) (ALTERNATE #1)	SHEET 26 OF 27 SHEETS 2006-42
SURVEYED: GOULET, RADELLA	8-2010					PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048164					
SURVEY BASE MAP: RADELLA	9-2010					PLANTING DESIGN: JULIA TURNEY, L.G.	5/2013						
CHECKED: DALE NELSON	9-2010					LINDSEY MILLER	5/2013						
		1.	UPDATE CONTRACT NO.		3/26/14	DESIGN ENTERED: LTRAXINGER, K. KITAMURA	5/2013	MAINTENANCE DIVISION No. 2					
		NUM.	REVISION		BY	DATE							

Scientific Name	Common Name	Quantity	Size Conditions	Plant Spacing
Long Marsh Creek				
Thuja plicata	Western Red Cedar	10	Container min 18" ht, full, dense foliage, symmetrical crown	High flow channel, slope edge locate in cluster of willows
Betula papyrifera	Paper Birch	9	B&B 5-6' ht, full, dense foliage, symmetrical crown	High flow channel within 50 feet of May Creek
Fraxinus latifolia	Oregon Ash	10	B&B 5-6' ht, full, dense foliage, symmetrical crown	High flow channel, base of slope
Cornus sericea	Red Osier Dogwood	27	Container 18" -21" ht and spread, min two stems	Clusters of three on high flow channel
Acer circiatum	Vine Maple	30	Container 18" -21" ht and spread, min two stems	Clusters of three on high flow channel
Salix lasiandra	Pacific Willow	55	Live stake, min 36" long at 1/2" to 3/4" diameter, min 12 lateral buds per stake	3'oc staggered. Stakes driven into high flow channel distributed along creek
Salix sitchensis	Sitka Willow	55	Live stake, min 36" long at 1/2" to 3/4" diameter, min 12 lateral buds per stake	3'oc staggered Stakes driven into high flow channel distributed along creek
Rubus spectabilis	Salmonberry	30	Container 18" -21" ht and 15" spread, dense, multiple stems	Clusters of three on high flow channel
Symphoricarpos albus	Snowberry	30	Container 15"-18" ht spread, full	Clusters of three on upper bank of high flow channel
Rosa nutkana	Nootka Rose	30	Container 15"-18" ht spread, full	Clusters of three on upper bank of high flow channel
Polystichum munitum	Western Sword Fern	40	1 Gallon container min 3 fronds	Distributed
Achillea millefolium	Yarrow	40	10 cubic inch Plugs or 4" pot	Distributed
Aruncus dioicus	Goat's Beard	40	10 cubic inch Plugs or 4" pot	Distributed
Tellima grandiflora	Fringecup	40	10 cubic inch Plugs or 4" pot	Distributed
Carex lenticularis	Shore Sedge	30	10 cubic inch plugs	Clusters adjacent to low flow channel
Scripus microcarpus	Small-fruited Bulrush	30	10 cubic inch plugs	Clusters adjacent to low flow channel
Oxalis oregano	Wood-sorrel	50	4 "pot	Distributed

May Creek Side Channel					
Thuja plicata	Western Red Cedar	3	Container min 18" ht, full, dense foliage, symmetrical crown	"Island" between main and side channel	
Cornus sericea	Red Osier Dogwood	3	1 gal Container min two stems	"Island" between main and side channel	
Symphoricarpos albus	Snowberry	6	1 gal Container min two stems	"Island" between main and side channel	
Carex lenticularis	Shore Sedge	6	10 cubic inch plugs	Low bank along island between main and side channel	
Scripus microcarpus	Small-fruited Bulrush	6	10 cubic inch plugs	Low bank along island between main and side channel	
Salix lasiandra	Pacific Willow	20	Live stake, min 36" long at 1/2" to 3/4" diameter, min 12 lateral buds per stake	3'oc staggered. Stakes driven into banks distributed along island between May Creek main and side channel	
Salix sitchensis	Sitka Willow	20	Live stake, min 36" long at 1/2" to 3/4" diameter, min 12 lateral buds per stake	3'oc staggered Stakes driven into banks distributed along creek	



TREE STAKING "ARBOR TIE" OR APPROVED SUBSTITUTE

8'-0" "BVC" LODGE POLE PINE STAKE, 2" DIA. 1" PER TREE DRIVEN INTO UNDISTURBED DIAGONALLY SUBSOIL MIN. 24" DEPTH

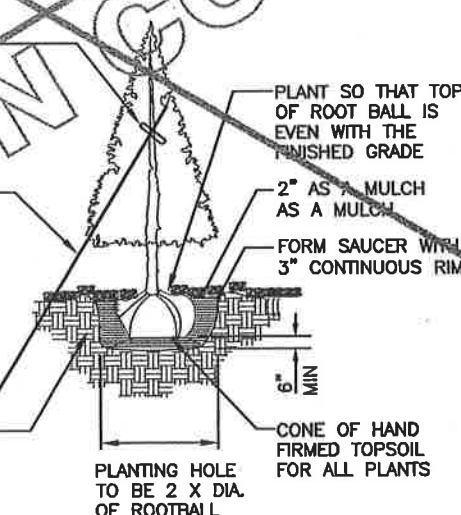
NOTE: STAKE ALL TREES 4' AND TALLER.

BACKFILL WITH MIXTURE OF 1/3 COMPOST AND 2/3 NATIVE SOILS. WATER AND TAMP TO REMOVE AIR POCKETS. SCARIFY SIDES OF PLANTING PITS PRIOR TO BACKFILLING.

NOTE: DECIDUOUS TREES SHALL HAVE TWO STAKES FOR SUPPORT. INSTALLED PERPENDICULARLY PER U.S. HORT. STANDS.

CONIFEROUS TREE PLANTING

NTS



2" DEPTH AS A MULCH. KEEP MULCH AWAY FROM MAIN STEM

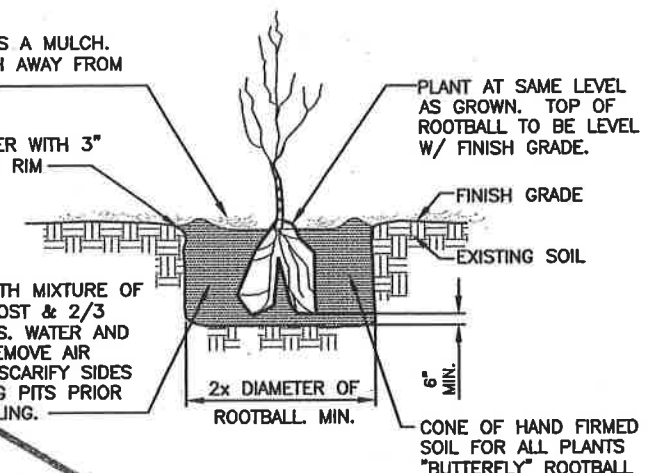
FORM SAUCER WITH 3" CONTINUOUS RIM

BACKFILL WITH MIXTURE OF 1/3 COMPOST & 2/3 NATIVE SOILS. WATER AND TAMP TO REMOVE AIR POCKETS. SCARIFY SIDES OF PLANTING PITS PRIOR TO BACKFILLING.

NOTE: PRUNE DEAD OR BROKEN ROOTS. SLICE THROUGH ROOTS CIRCLING THE BALL. SPREAD ("BUTTERFLY") ROOTS ON BARE ROOT & CONTAINERIZED MATERIAL

SMALL TREE, SHRUB AND GROUND COVER PLANTING

NTS



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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2010-2	9-2010	APPROVED: DON ALTHAUSER, P.E.	5/21-13	5/2013	CONTRACT No. C00905C14	1048164		King County Department of Natural Resources and Parks Water and Land Resources Division Stormwater Services Section Capital Services Unit Christie True, Director	LONG MARSH CREEK SEDIMENT MANAGEMENT CONFLUENCE TO R.M. 0.05 PLANTING SCHEDULE AND DETAILS (NIC) (ALTERNATE #1)	SHEET 27 OF 27 SHEETS 2006-42
SURVEYED: GOULET, RADELLA	8-2010	PROJECT MANAGER: DOUG CHIN, PMP	5/2013	PROJECT No. 1048164						
SURVEY BASE MAP: RADELLA	9-2010	PLANTING DESIGN: JULIA TURNEY, L.G.	5/2013							
CHECKED: DALE NELSON	9-2010	DESIGN ENTERED: LTRAXINGER, K. KITAMURA	5/2013							
1. UPDATE CONTRACT NO.		3/26/14		MAINTENANCE DIVISION No. 2						
NUM.	REVISION	BY	DATE							