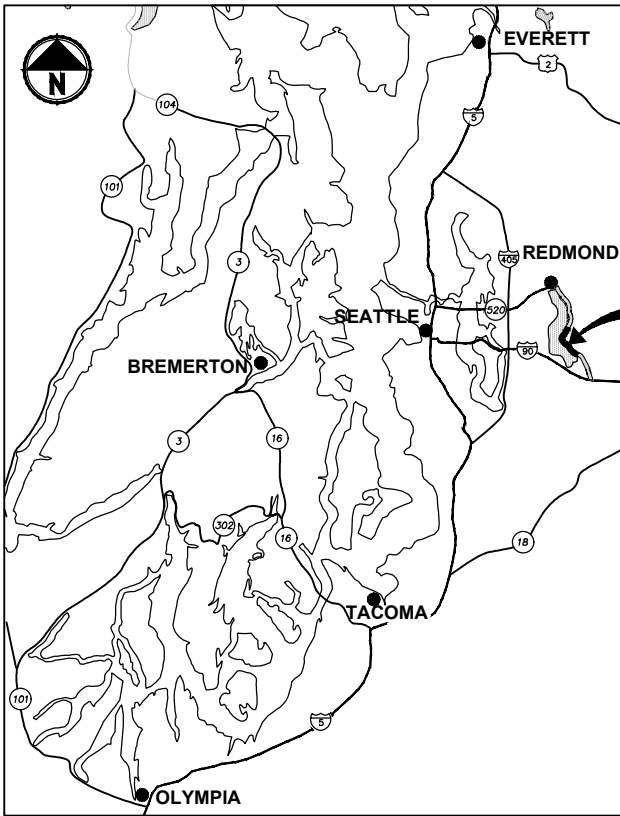


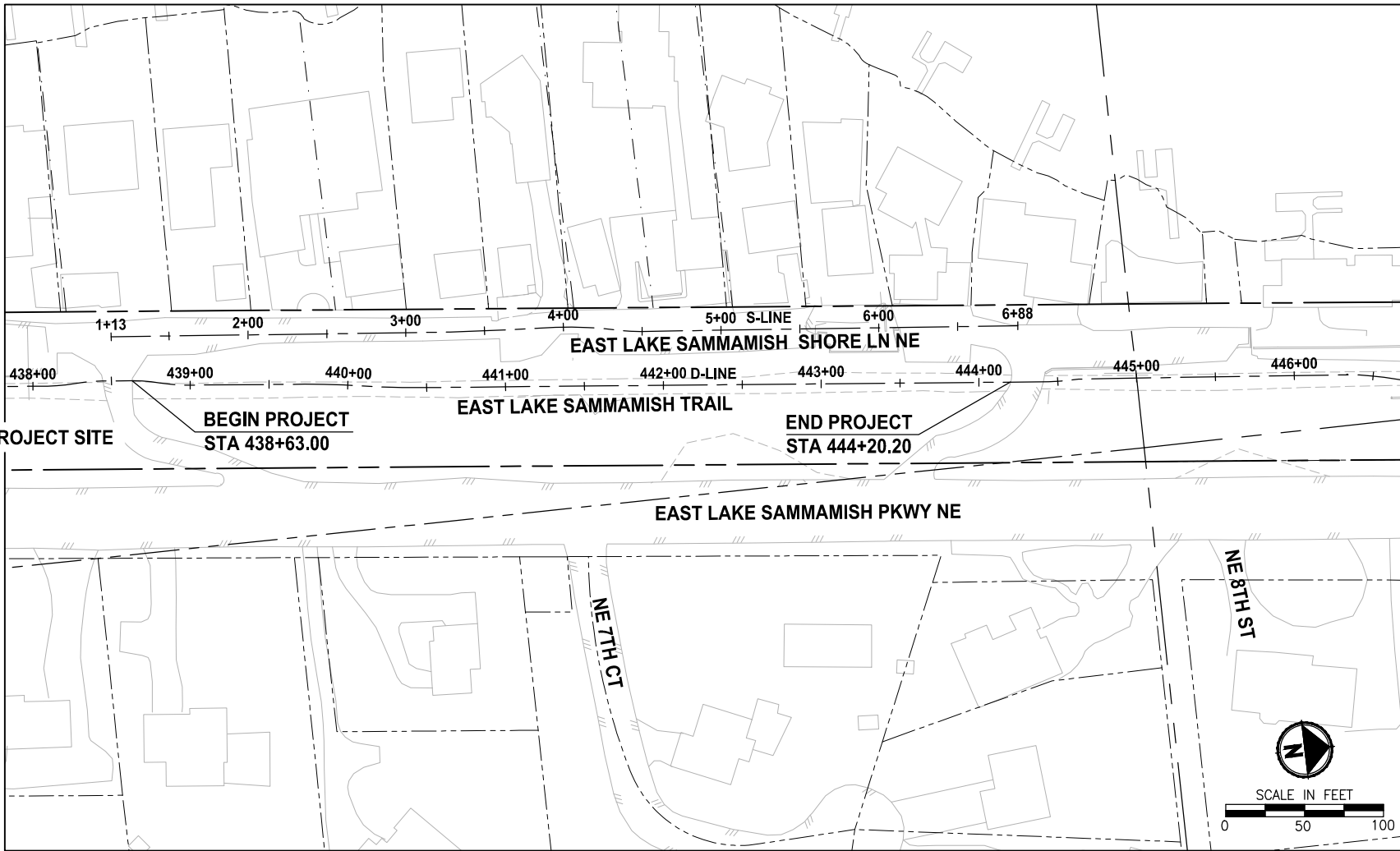
East Lake Sammamish Master Plan Trail, South Sammamish Segment B - Phase 2

Schedule C: George Davis Creek Culvert Replacements

King County, Washington



LOCATION MAP
NOT TO SCALE



VICINITY MAP

RIGHT OF WAY NOTE:

RIGHT OF WAY LINES SHOWN ARE BASED ON KING COUNTY MAP VAULT SURVEY OF EAST LAKE SAMMAMISH TRAIL, MAP NUMBER 311-99, DATED AUGUST 8TH, 1998, WITH SUBSEQUENT CONVEYANCES AND EASEMENTS BEING UPDATED ACCORDING TO AUDITOR DOCUMENTS OF RECORD.

PROPERTY INFORMATION:

PARCEL NUMBERS: 322506-9015 (13.79 ACRES)

PROJECT & SITE INFORMATION:

KING COUNTY PROPOSED FISH PASSAGE CULVERT REPLACEMENTS AND ASSOCIATED STREAM RESTORATION AS PART OF THE CRITICAL AREAS MITIGATION FOR THE EAST LAKE SAMMAMISH MASTER PLAN TRAIL PROJECT, LOCATED IN THE CITY OF SAMMAMISH NEAR THE INTERSECTION OF EAST LAKE SAMMAMISH PARKWAY NE AND NE 7TH CT.

DISTURBED AREA = 0.6 AC
EXISTING IMPERVIOUS AREA = 0.2 AC
PROPOSED IMPERVIOUS AREA = 0.5 AC
VOLUME OF ESTIMATED FILL = 749 CY
VOLUME OF ESTIMATED EXCAVATION = 1,100 CY

WRITTEN DESCRIPTION OF THE PROJECT:

THE EXISTING STREAM CULVERTS AT THE TRAIL AND EAST LAKE SAMMAMISH SHORE LANE NE CROSSINGS WILL BE REMOVED AND REPLACED WITH CONCRETE BOX CULVERTS.

THE PROPOSED IMPROVEMENTS INCLUDE PRECAST CONCRETE BOX CULVERTS AND ASSOCIATED WINGWALLS, STREAM GRADINGS, RELOCATING UNDERGROUND UTILITIES, TEMPORARY ACCESS IMPROVEMENTS, FENCE AND MITIGATION FOR IMPACTS TO STREAM BUFFERS.

SCHEDULE B WORK INCLUDES ALL WORK WITHIN KING COUNTY PROPERTY BOUNDARY.

EXISTING ZONE CLASSIFICATION:

COMMUNITY FACILITIES CF-F

EXISTING SHORELINE ENVIRONMENT DESIGNATION:

CITY OF SAMMAMISH DESIGNATION: SHORELINE RESIDENTIAL

GENERAL PURPOSE OF THIS PROJECT:

TO REMOVE AND REPLACE FISH PASSAGE BARRIER CULVERTS AND RESTORE STREAM CHANNEL AT EAST LAKE SAMMAMISH TRAIL AND EAST LAKE SAMMAMISH SHORE LANE NE.

CONTACT INFORMATION:

APPLICANT/OWNER:
KING COUNTY PARKS AND RECREATION DIVISION
201 S. JACKSON, 7TH FLR
SEATTLE, WA 98104
(206) 724-1296
CONTACT: GINA AULD

ENGINEER:
PARAMETRIX
719 2ND AVENUE
SUITE 200
SEATTLE, WA 98104
(206) 394-3700
CONTACT: CRAIG BUITRAGO, P.E.

UTILITY:
ONE-CALL 1 (800) 424-5555

SAMMAMISH PLATEAU WATER AND SEWER DISTRICT
(425) 295-3203
CONTACT: KYLE WONG

COMCAST CABLE
(425) 263-5348/(425) 319-4968
CONTACT: JOSEPH FORDON

FRONTIER COMMUNICATIONS NW INC.
(425) 261-6342/(425) 210-2870
CONTACT: THOMAS PACEY

PUGET SOUND ENERGY (POWER AND POLE)
(425) 417-9188
CONTACT: DENNIS BOOTH

PUGET SOUND ENERGY (GAS)
(425) 449-7410/(425) 463-6550
CONTACT: JEANNE COLEMAN

EASTSIDE FIRE/RESCUE
(425) 313-3203
CONTACT: GREG TRYON

SURVEYOR:
PARAMETRIX
719 2ND AVENUE
SUITE 200
SEATTLE, WA 98104
(206) 394-3700
CONTACT: ROBERT PUSEY

ARBORIST:
AMERICAN FOREST MANAGEMENT, INC
11415 NE 128TH ST SUITE 110
KIRKLAND, WA 98034
(425) 820-3420
CONTACT: BOB LAYTON

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

17 February 2022

CG2016-03470

SSDP2016-00415

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

CONFORMED DRAWINGS



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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

COVER SHEET

SHEET NO.
183 OF 213

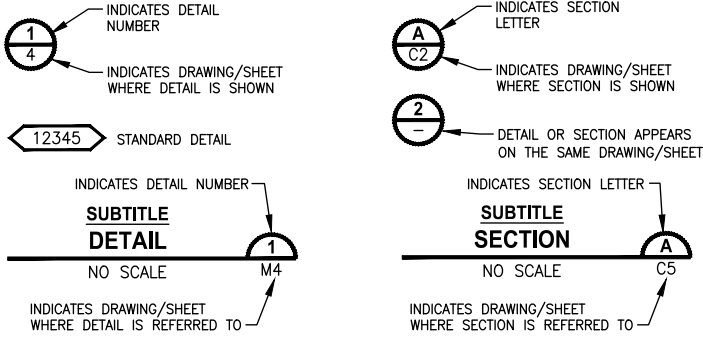
G1

LAYOUT: G2 PATH: U:\PSO\Projects\Clients\1521-075-ELST\995\cs\CADD\Phase 19\T03_Civil\Draw-GDC Phase2\ PLOTTED BY: purgabut DATE: Wednesday, June 16, 2021 10:30:31 AM

ABBREVIATIONS:

AC	ASBESTOS CEMENT PIPE	MIN	MINIMUM
ACP	ASPHALT CONCRETE PAVEMENT	MON	MONUMENT
ADS	ADVANCED DRAINAGE SYSTEMS	MPE	MEDIUM DENSITY POLYETHYLENE PIPE
APPROX	APPROXIMATE	N	NORTH, NORTHING
BOC	BACK OF CURB	N.I.C.	NOT IN CONTRACT
BTM	BOTTOM	NST	NOT STEEPER THAN
BOW	BOTTOM OF WALL	PC	POINT OF CURVE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PE, PEP	POLYETHYLENE PIPE
BVCS	BEGIN VERTICAL CURVE STATION	PT	POINT OF TANGENT
CB	CATCH BASIN	P/L	PROPERTY LINE
C&G	CURB AND GUTTER	PRO	PROPOSED
C/L, CL	CENTERLINE	PUD	PUBLIC UTILITY DISTRICT
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE PIPE
COM	COMMUNICATION	PVI	POINT OF VERTICAL INTERSECTION
CONC	CONCRETE	PWR	POWER
CORR	CORRUGATED	RCP	REINFORCED CONCRETE PIPE
COS	CITY OF SAMMAMISH	REINF	REINFORCED
CONST	CONSTRUCTION	ROW, R/W	RIGHT-OF-WAY
CMP	CORRUGATED METAL PIPE	RT	RIGHT
CP	CONCRETE PIPE	SD	STORM DRAIN
CSTC	CRUSHED SURFACING TOP COURSE	SDMH	STORMWATER MANHOLE
DIA	DIAMETER	SIM	SIMILAR
DI, DIP	DUCTILE IRON PIPE	SEW	STRUCTURAL EARTH RETAINING WALL
E	EAST, EASTING	SPECS	SPECIFICATIONS
EL	ELEVATION	SPWSD	SAMMAMISH PLATEAU WATER & SEWER DISTRICT
EOA	EDGE OF ASPHALT	SS	SANITARY SEWER
EVCE	END VERTICAL CURB ELEVATION	SSFM	SANITARY SEWER FORCE MAIN
EVCS	END VERTICAL CURB STATION	ST	STEEL
EOG	EDGE OF GRAVEL	STA	STATION
EOP	EDGE OF PAVEMENT	STD	STANDARD
EX, EXIST	EXISTING	TEL	TELEPHONE
FOC	FACE OF CURB	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
FL	FLANGE, FLOWLINE	TOW	TOP OF WALL
G	GAS	UD	UNDERDRAIN
GB	GRADE BREAK	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE PIPE	W, WTR	WATER
HMA	HOT MIX ASPHALT	WS	WATER SERVICE
IE	INVERT ELEVATION	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
LF	LINEAR FEET	WWM	WELDED WIRE MESH
LP	LOW POINT		
LT	LEFT		
ME	MATCH EXISTING		

DETAIL AND SECTION DESIGNATION



INDEX TO DRAWINGS		
DWG NO.	SHT NO.	SHEET TITLE
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EXISTING CONDITIONS 187	EX1	EXISTING CONDITIONS PLAN
TYPICAL CROSS SECTIONS 188	CS1	TYPICAL CROSS SECTIONS
SITE PREPARATION 189	SP1	SITE PREPARATION PLAN
TESC 190	TE1	TESC PLAN
TESC DETAILS 191	TD1	TESC DETAILS
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MISCELLANEOUS DETAILS 203 204 205 206 207	MD1 MD2 MD3 MD4 MD5	MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS
LANDSCAPE 208	LA1	LANDSCAPE PLAN
MITIGATION DETAILS AND NOTES 209 210 211	LD1 LD2 LD3	PLANTING DETAILS MITIGATION NOTES MITIGATION NOTES
PAVING 212	PV1	PAVING PLAN
TRAFFIC CONTROL 213	TC1	TRAFFIC CONTROL PLAN

CONFORMED DRAWINGS



REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN B. PURGANAN
			CHECKED Y. HO
			APPROVED J. BAILEY

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FILE NAME
BL1521075P19T03G-02_GDC

JOB No.
554-1521-075 P19 T03

DATE
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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

ABBREVIATIONS AND SHEET LIST

SHEET NO.
184 OF 213

G2

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**

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17 February 2022

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date























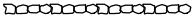












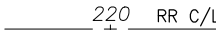
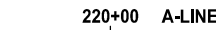
LEGEND

DESCRIPTION	PROPOSED	EXISTING
RIGHT OF WAY		
PROPERTY LINE		
RR LEASE LINE		
SECTION LINE		
QUARTER SECTION LINE		
FOUND MONUMENTS		
REBAR & CAP		
HUB & TACK		
PK NAIL		
FOUND MAG NAIL		
SET MAG NAIL		
PROPERTY CORNER		
EASEMENT LINE		
STREAM BUFFER		
STREAM		
EDGE OF WATER		
WETLAND FLAG		
WETLAND BUFFER		
ORDINARY HIGH WATER MARK		
FLOODWAY BOUNDARY		
SHORELINE		
50' SHORELINE SETBACK		
200' SHORELINE SETBACK		
DITCH		
JURISDICTIONAL DITCH CENTERLINE & EDGES		
TEMPORARY EXCAVATION LIMIT		
SOLID WALL PVC		
TEMPORARY DRAIN PIPE		
STORM DRAIN		
STORM DRAIN (PER RECORD INFO)		
CULVERT/STORM DRAIN PIPE		
QUARRY SPALL/RIP RAP		
CATCH BASIN, TYPE 1		
CATCH BASIN, TYPE 2		
CATCH BASIN W/ SOLID LID		
INLET PROTECTION		
SANITARY SEWER LINE		
SANITARY SEWER LINE (PER RECORD INFO)		
SANITARY SEWER MANHOLE		
SANITARY SEWER VALVE		
SANITARY SEWER VAULT		
CLEANOUT		
CONTOURS MAJOR		
CONTOURS MINOR		
HIGH VISIBILITY SILT FENCE		
HIGH VISIBILITY FENCE		
CLEARING AND GRUBBING LIMITS		
CLEARING LIMITS		
MITIGATION CLEARING		
FILL LINE		
CUT LINE		
SAWCUT		
PAVING/OVERLAY LIMIT		
ASPHALT EDGE		
CONCRETE LINE		
CURB AND GUTTER		
EDGE OF GRAVEL		

LEGEND

DESCRIPTION	PROPOSED	EXISTING
BARB WIRE FENCE		
SPLIT RAIL FENCE		
BOARD FENCE		
TWO-RAIL FENCE		
CHAIN LINK FENCE		
TEMPORARY SAFETY FENCE		
HOG WIRE FENCE		
WOOD GUARDRAIL		
GUY ANCHOR		
POWER POLE WITH LIGHT		
FLOOD LIGHT		
UTILITY POLE		
PP W/ UG DROP		
PP W/ UG DROP & XMFR		
PP W/ XMFR		
OVERHEAD POWER AND/OR TELECOM		
OVERHEAD POWER (PER RECORD INFO)		
POWER		
POWER (PER RECORD INFO)		
POWER VAULT		
POWER TRANSFORMER		
POWER MANHOLE		
POWER HANDHOLE		
POWER CABINET		
POWER RISER		
POWER METER		
SOLID LID J-BOX		
STAND PIPE / HOSE BIB		
LUMINAIRE		
TELEPHONE VAULT		
TELEPHONE RISER		
TELEPHONE MANHOLE		
TELEPHONE/COMMUNICATION		
TELEPHONE/COMMUNICATION (PER RECORD INFO)		
TV RISER		
TV		
GAS VALVE		
GAS METER		
GAS		
GAS (PER RECORD INFO)		
WATER LINE		
WATER LINE (PER RECORD INFO)		
FIRE HYDRANT		
WATER METER		
WATER VALVE		
WATER VAULT		
MONITORING WELL OR ARTESIAN WELL		
AREA DRAIN		
ROOF DRAIN		
WATER BLOW OFF VALVE		
WATER POST INDICATOR		
SPRINKLER HEAD ROT=90		
IRRIGATION CONTROL VALVE		
FLOW DIRECTION		
PROPERTY PARCEL NUMBER		

LEGEND

DESCRIPTION	PROPOSED	EXISTING
TRAFFIC SIGNAL POLE W/ LAMP		
TRAFFIC SIGNAL POLE		
TRAFFIC CONTROL LOOP (SQ)		
TRAFFIC CONTROL CABINET		
PEDESTRIAN POLE		
SAMPLE PLOT		
SURFACE POST		
SIGN		
SKIP LANE LINE		
SOLID LANE LINE		
FOG LINE		
LTO ARROW		
STO ARROW		
RTO ARROW		
MAILBOX		
DECIDUOUS TREE		
CONIFEROUS TREE		
WETLAND SYMBOL		
WETLAND BOUNDARY		
VEGETATION		
STRUCTURAL EARTH WALL		
SOLDIER PILE WALL		
ROCK WALL		
HANDICAPPED SYMBOL		
WHEELCHAIR RAMP		
BUILDING LINE		
CONCRETE STAIR LINE		
WOOD STAIRWAY		
REMOVE ASPHALT		
PATTERNED CONCRETE INTERSECTION		
SLOPE PROTECTION		
COFFERDAM		
CHECK DAM		
WATTLE CHECK DAM		
FORMER RAILROAD CENTERLINE		
CONSTRUCTION CENTERLINE		

CONFORMED DRAWINGS



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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

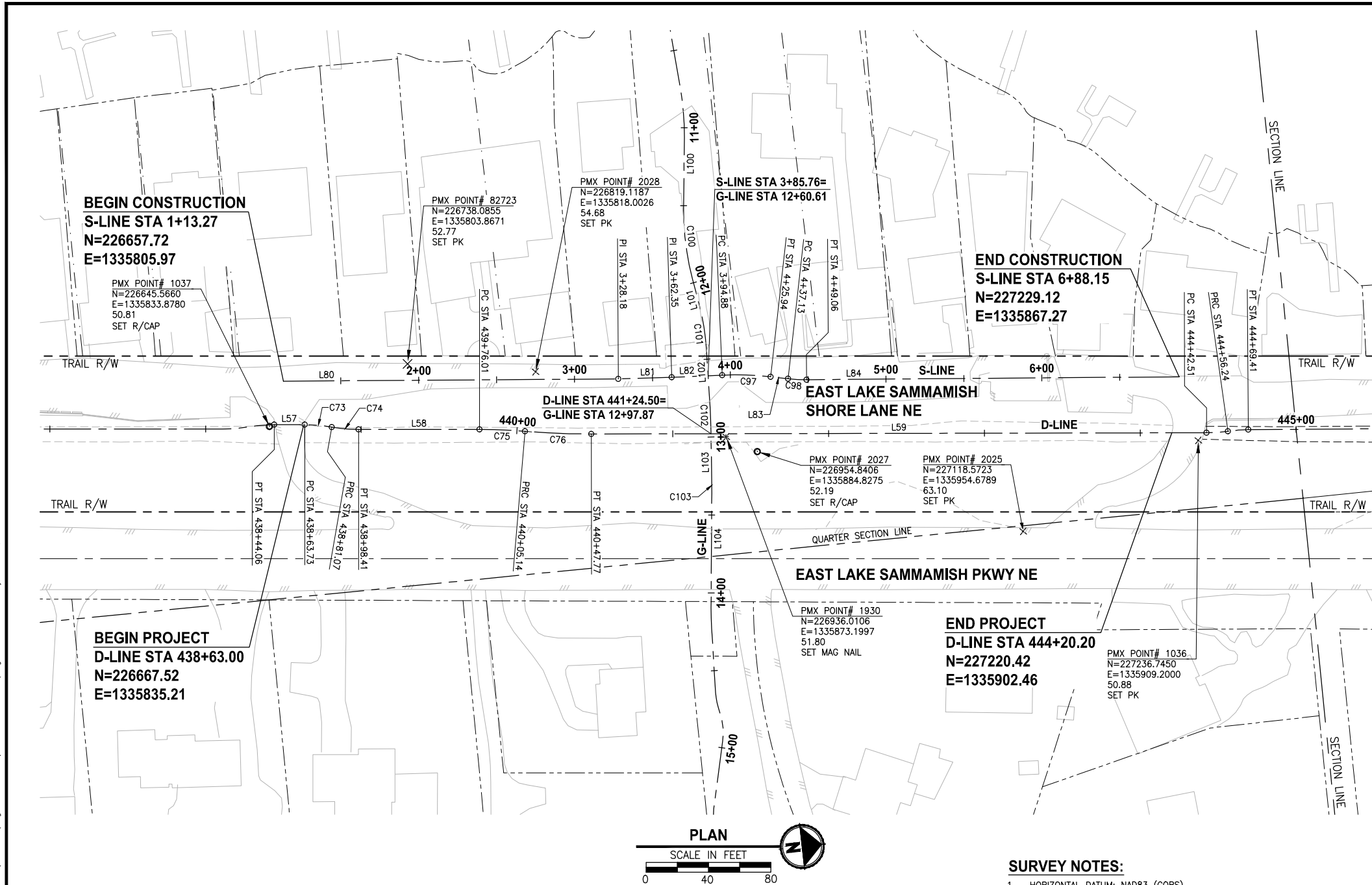
CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

LEGEND

SHEET NO.
185 OF 213

G3

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CONFORMED DRAWINGS



REVISIONS	DATE	BY	DESIGNED
			R. PUSEY
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03G-04_GDC
JOB No. 554-1521-075 P19 T03
DATE JUNE 2021

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PROJECT NAME

EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
Sammamish, WA

SURVEY CONTROL PLAN

G4

SHEET NO.
186 OF 213

G4

ALIGNMENT DATA

D-LINE LINE TABLE						
LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L57	19.67	N6° 24' 06"E	1335833.10	226648.70	1335835.29	226668.25
L58	77.60	N6° 24' 06"E	1335842.12	226702.21	1335850.77	226779.32
L59	394.74	N6° 17' 08"E	1335861.69	226850.23	1335904.91	227242.59

D-LINE CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C73	17.34	100.00	9°56'11"	1335835.29	226668.25	1335838.71	226685.23
C74	17.34	100.00	9°56'11"	1335838.71	226685.23	1335842.12	226702.21
C75	29.13	350.00	4°46'08"	1335850.77	226779.32	1335855.22	226808.11
C76	42.63	500.00	4°53'06"	1335855.22	226808.11	1335861.69	226850.23

S-LINE LINE TABLE						
LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L80	214.90	N6° 01' 37"E	1335805.97	226657.72	1335828.53	226871.44
L81	34.17	N4° 40' 47"E	1335828.53	226871.44	1335831.32	226905.50
L82	32.53	N3° 53' 40"E	1335831.32	226905.50	1335833.53	226937.95
L83	11.20	N12° 47' 30"E	1335838.03	226968.65	1335840.51	226979.57
L84	239.08	N5° 57' 29"E	1335842.45	226991.33	1335867.27	227229.12

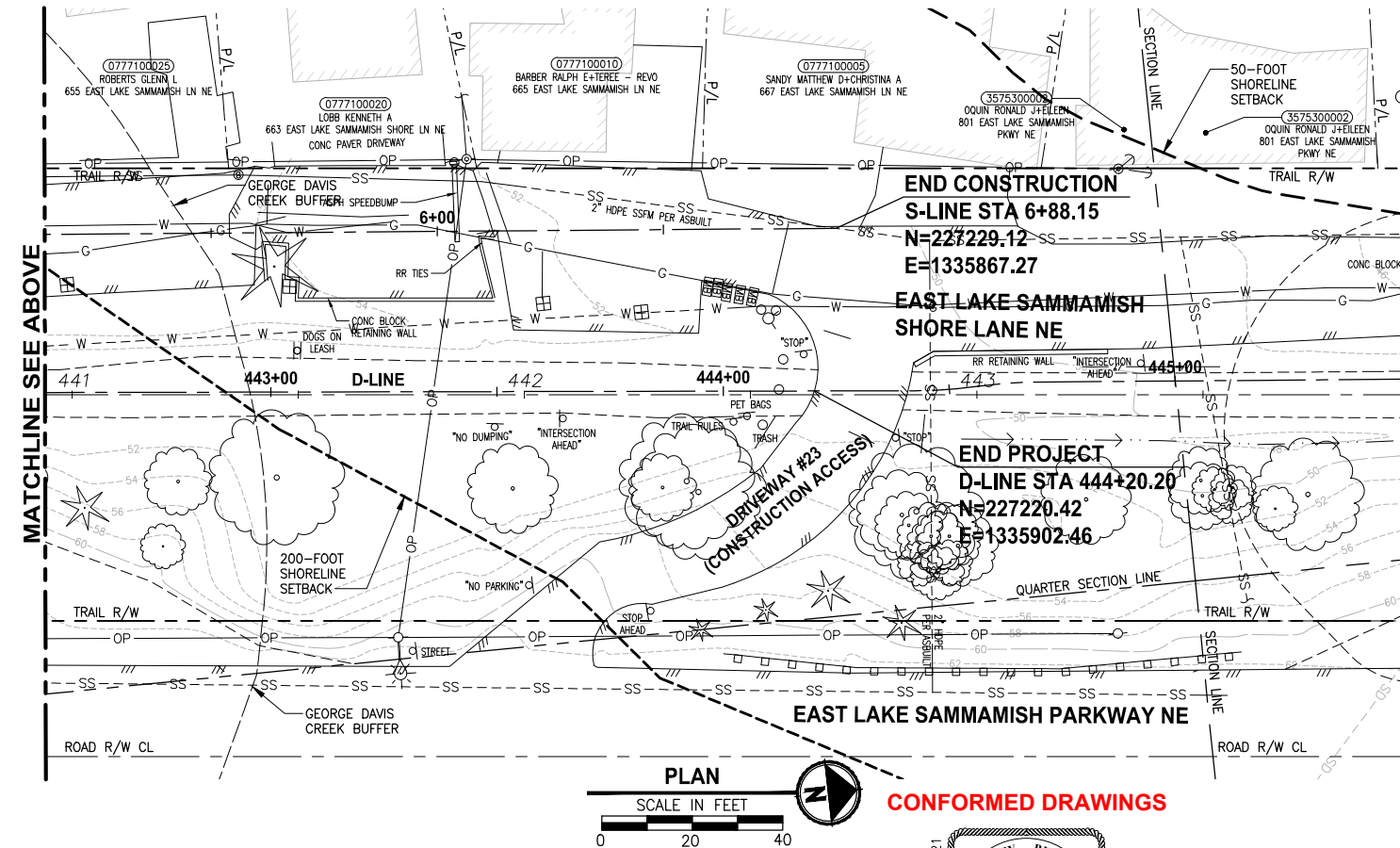
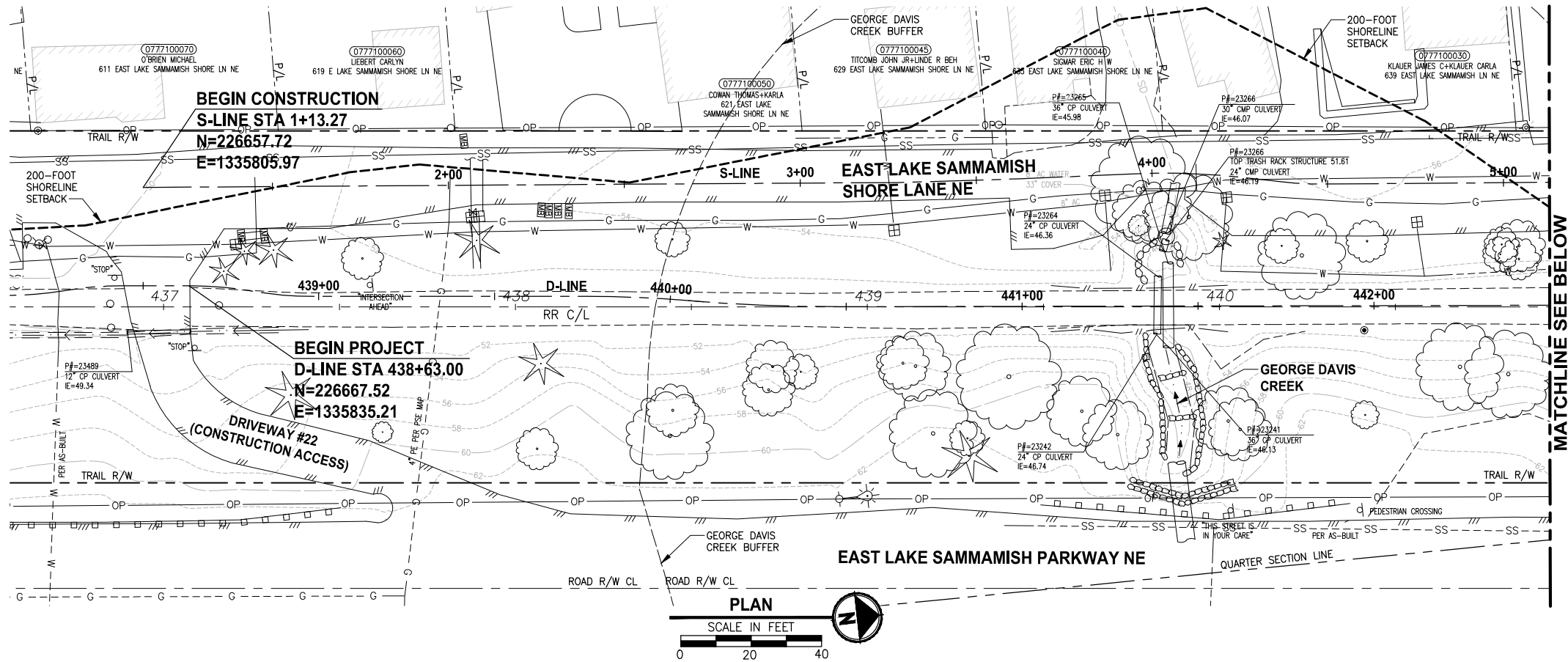
S-LINE CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C97	31.06	200.00	8°53'49"	1335833.53	226937.95	1335838.03	226968.65
C98	11.93	100.00	6°50'00"	1335840.51	226979.57	1335842.45	226991.33

G-LINE LINE TABLE						
LINE	LENGTH	BEARING	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
L100	45.07	S83° 02' 16"E	1335679.10	226930.75	1335723.84	226925.29
L101	17.19	N81° 44' 27"E	1335770.19	226925.81	1335787.20	226928.28
L102	37.91	S87° 16' 21"E	1335815.89	226929.67	1335853.76	226927.86
L103	35.39	S84° 39' 50"E	1335860.57	226927.38	1335895.80	226924.09
L104	73.27	S83° 14' 09"E	1335908.19	226922.78	1335980.95	226914.15

G-LINE CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	BEGIN EASTING	BEGIN NORTHING	END EASTING	END NORTHING
C100	46.49	175.00	15°13'17"	1335723.84	226925.29	1335770.19	226925.81
C101	28.76	150.00	10°59'12"	1335787.20	226928.28	1335815.89	226929.67
C102	6.83	150.00	2°36'31"	1335853.76	226927.86	1335860.57	226927.38
C103	12.46	500.00	1°25'41"	1335895.80	226924.09	1335908.19	226922.78

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

PATH: U:\P50\Projects\Clients\1521-KingCo\554-1521-075-ELST\99S\Set\CAD\Phase 19\T03 Civil\Draw-COC Phase2\ LAYOUT: EX1 PLOTTED BY: purgubut DATE: Sunday, June 13, 2021 4:36:31 PM



GENERAL NOTES:

- SEE SHEET G3 FOR SYMBOL AND LINE LEGEND.
- THE RAIL ROAD CENTERLINE (RR CL) & R/W LINES SHOWN IS BASED ON THE RIGHT OF WAY DRAWINGS PROVIDED BY KING COUNTY, DATED 1998, UNLESS OTHERWISE NOTED.
- OUTLINES FOR BUILDING STRUCTURES SHOWN ARE BASED ON GIS AND AERIAL PHOTOS, DATED 2016.
- NOT ALL HEDGES AND ARBORVITAE ARE INCLUDED IN THE SURVEY.
- UTILITY INFORMATION IS BASED ON AVAILABLE RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES. POTHOLING INFORMATION HAS NOT BEEN INCORPORATED.
- MODIFICATIONS WERE DONE TO THE RIGHT OF WAY LIMITS PER SUPPLEMENTAL RECORD DOCUMENTATION AS PROVIDED BY KC.
- PARCEL LINES WERE UPDATED PER GIS INFORMATION PROVIDED BY COUNTY, DATED 2016.

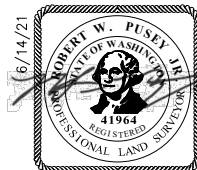
LEGEND:

FORMER RAILROAD CENTERLINE	220	RR C/L
CONSTRUCTION CENTERLINE	220+00	B-LINE

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

REVISIONS	DATE	BY	DESIGNED
			R. PUSEY
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY	
FILE NAME	BL1521075P19T03EX-01_GDC
JOB No.	554-1521-075 P19 T03
DATE	JUNE 2021



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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

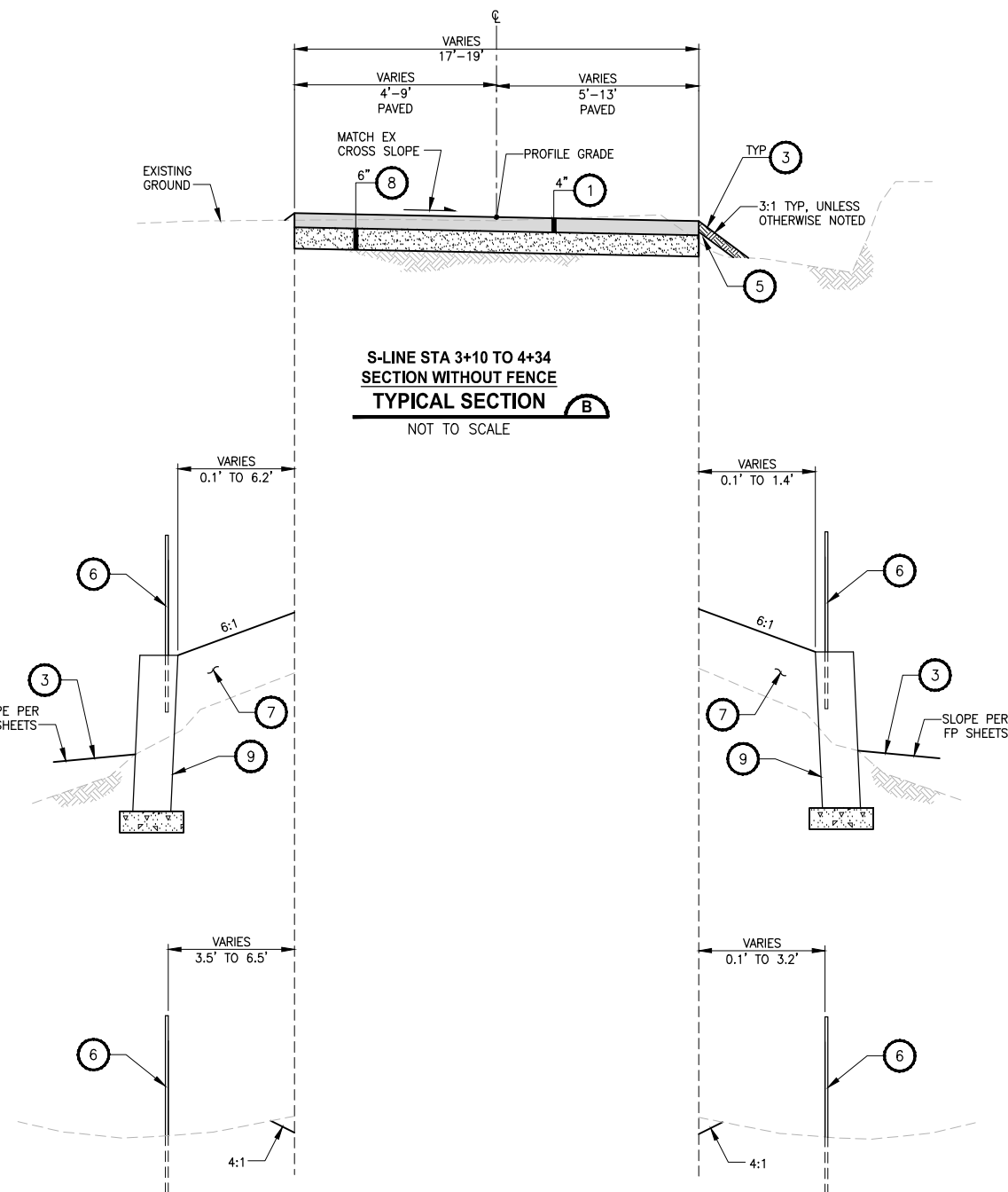
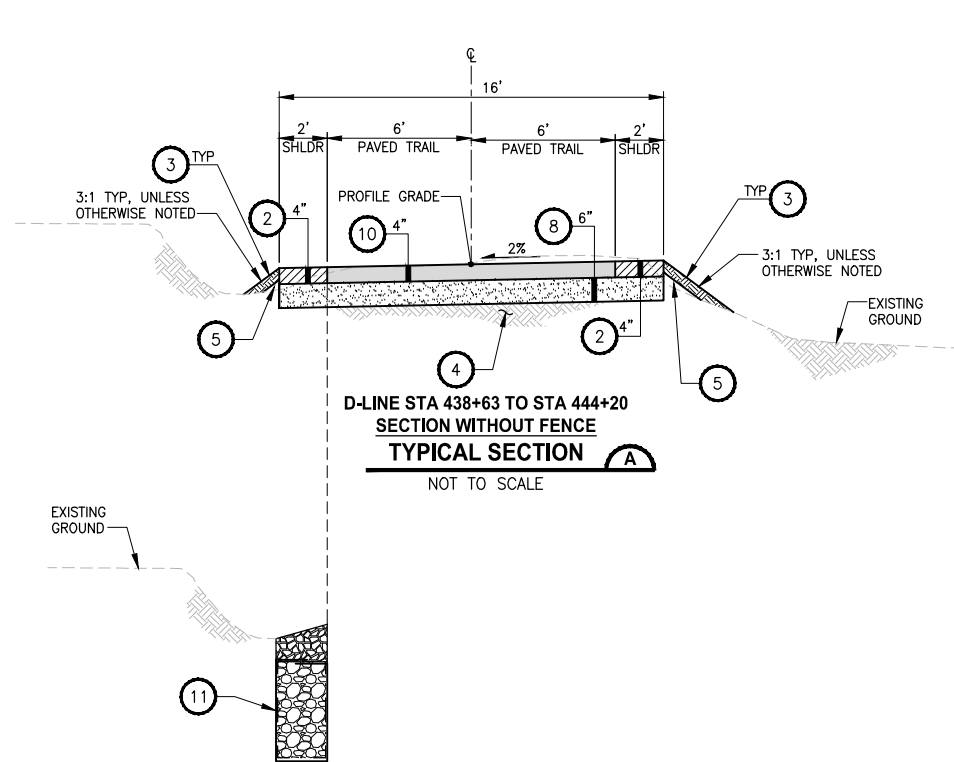
SAMMAMISH, WA

EXISTING CONDITIONS PLAN

SHEET NO.
187 OF 213

EX1

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CONSTRUCTION NOTES:

- 1 HMA CL. 1/2" PG 64-22.
- 2 5/8" MINUS CRUSHED LEDGE ROCK, 100% FRACTURED. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS.
- 3 SEE SLOPE RESTORATION DETAILS ON LA SHEETS.
- 4 EXISTING BALLAST BASE.
- 5 SELECT BORROW INCL. HAUL.
- 6 4-FOOT COATED CHAIN LINK FENCE. SEE AL PLANS FOR LOCATIONS AND SEE DETAILS ON SHEET MD1.
- 7 GRAVEL BACKFILL FOR WALL.
- 8 CRUSHED SURFACING BASE COURSE.
- 9 WING WALL, SEE FP SHEETS FOR PROFILE AND DETAILS.
- 10 HMA CL. 3/8" PG 64-22.
- 11 INFILTRATION TRENCH. SEE AL SHEETS FOR INFILTRATION TRENCH LOCATIONS AND DETAIL 3 ON SHEET MD4.

CONFORMED DRAWINGS



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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**
These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.
17 February 2022

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

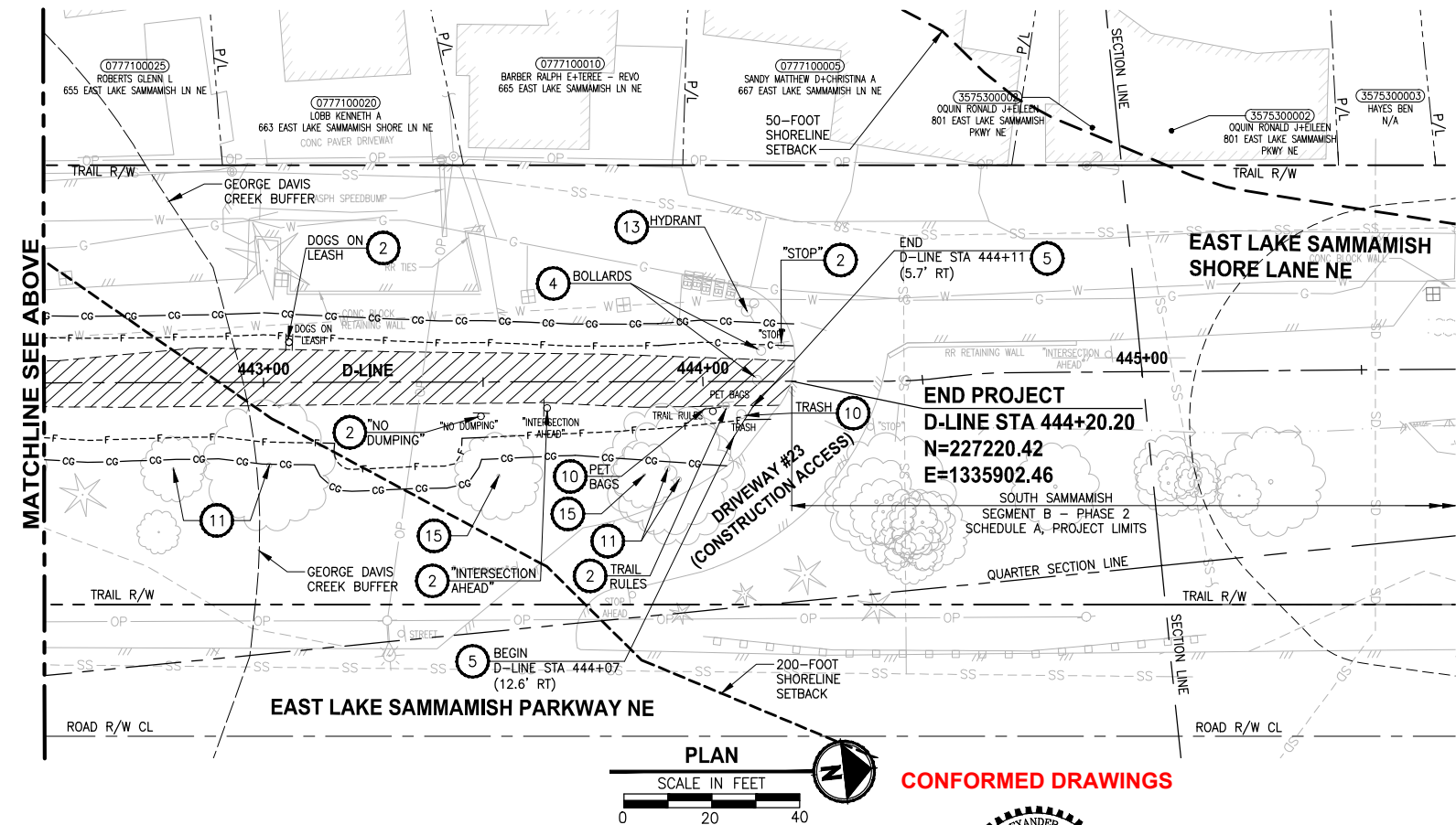
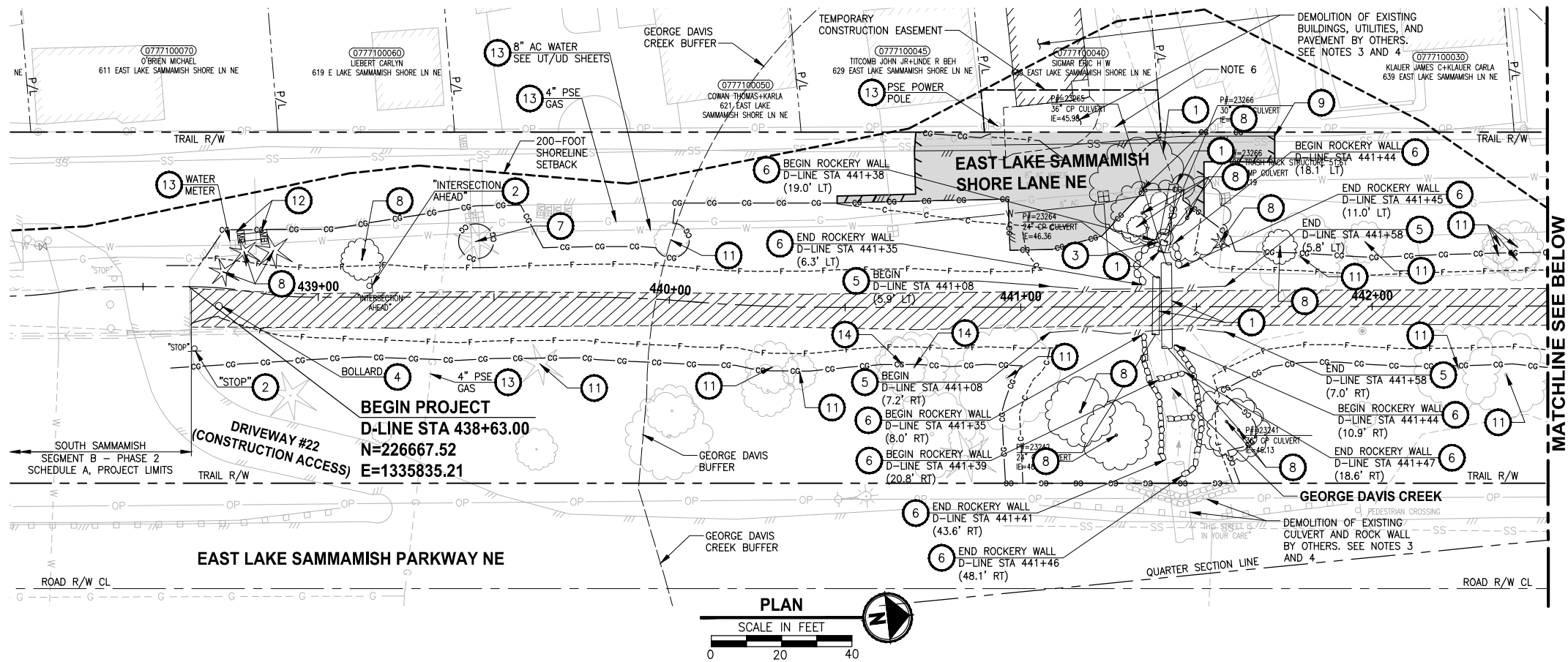
REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE.
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JOB No.
554-1521-075 P19 T03
DATE
JUNE 2021

TYPICAL CROSS SECTIONS

SHEET NO.
188 OF 213
CS1

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SITE PREPARATION NOTES:

- 1 REMOVE AND DISPOSE CULVERT PIPE.
- 2 REMOVE AND DISPOSE SIGN AND POST. SEE NEW SIGN LOCATIONS ON AL SHEETS.
- 3 REMOVE DRAINAGE STRUCTURE/MANHOLE.
- 4 REMOVAL OF STRUCTURE AND OBSTRUCTION.
- 5 REMOVE AND DISPOSE SPLIT RAIL FENCE.
- 6 REMOVAL OF ROCKERY WALL.
- 7 RETAIN TREE WITHIN CLEARING AND GRUBBING LIMITS PER ARBORISTS' ASSESSMENT.
- 8 REMOVE TREE WITHIN CLEARING AND GRUBBING LIMITS.
- 9 SAWCUT AND REMOVE PAVEMENT.
- 10 REMOVE AND SALVAGE TRASH BAG DISPENSER/TRASH CAN.
- 11 PRESERVE AND MONITOR TREE. IF TREE REMOVAL IS DEEMED NECESSARY BY THE PROJECT REPRESENTATIVE AND ARBORIST, TREE SHALL BE FLAGGED PRIOR TO REMOVAL.
- 12 RELOCATE MAILBOX. SEE AL SHEETS FOR NEW LOCATION.
- 13 PROTECT EXISTING UTILITY.
- 14 REMOVE ALL BRANCHES AND LEAVE 18' TALL TRUNK AS HABITAT SNAG.
- 15 REMOVE DEAD STEM.

GENERAL NOTES:

1. SEE UT SHEETS FOR EXISTING UTILITIES, UTILITY RELOCATION AND ADJUSTMENTS.
2. SEE TE SHEETS FOR EROSION CONTROL AND OTHER TEMPORARY CONSTRUCTION MEASURES.
3. CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHERS. SEE SHEET TE1 FOR CONSTRUCTION COORDINATION NOTES.
4. DEMOLITION AND STREAM CONSTRUCTION ON PARCEL 077100040 AND EAST LAKE SAMMAMISH PARKWAY CULVERT REPLACEMENT ARE BEING CONSTRUCTED BY CITY OF SAMMAMISH UNDER A SEPARATE PROJECT. CONTRACTOR SHALL CONFIRM THE HOUSE IS UNOCCUPIED PRIOR TO DISCONNECTING WATER SERVICE.
5. SEE PV SHEET FOR PAVEMENT PLAN AND FOR AREAS TO BE PLANED AND PAVED.
6. COORDINATE WITH PSE FOR TEMPORARY DE-ENERGIZATION OF THE OVERHEAD POWER LINE DURING CONSTRUCTION OF THE PRECAST CONCRETE CULVERT AND PRECAST WINGWALLS AT SHORE LANE NE.

LEGEND:

- REMOVE EXISTING GRAVEL SURFACE
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE PAVEMENT

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

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17 February 2022

CITY OF SAMMAMISH APPROVAL

City Engineer	Date
Community Development	Date

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

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IF NOT, SCALE ACCORDINGLY

FILE NAME
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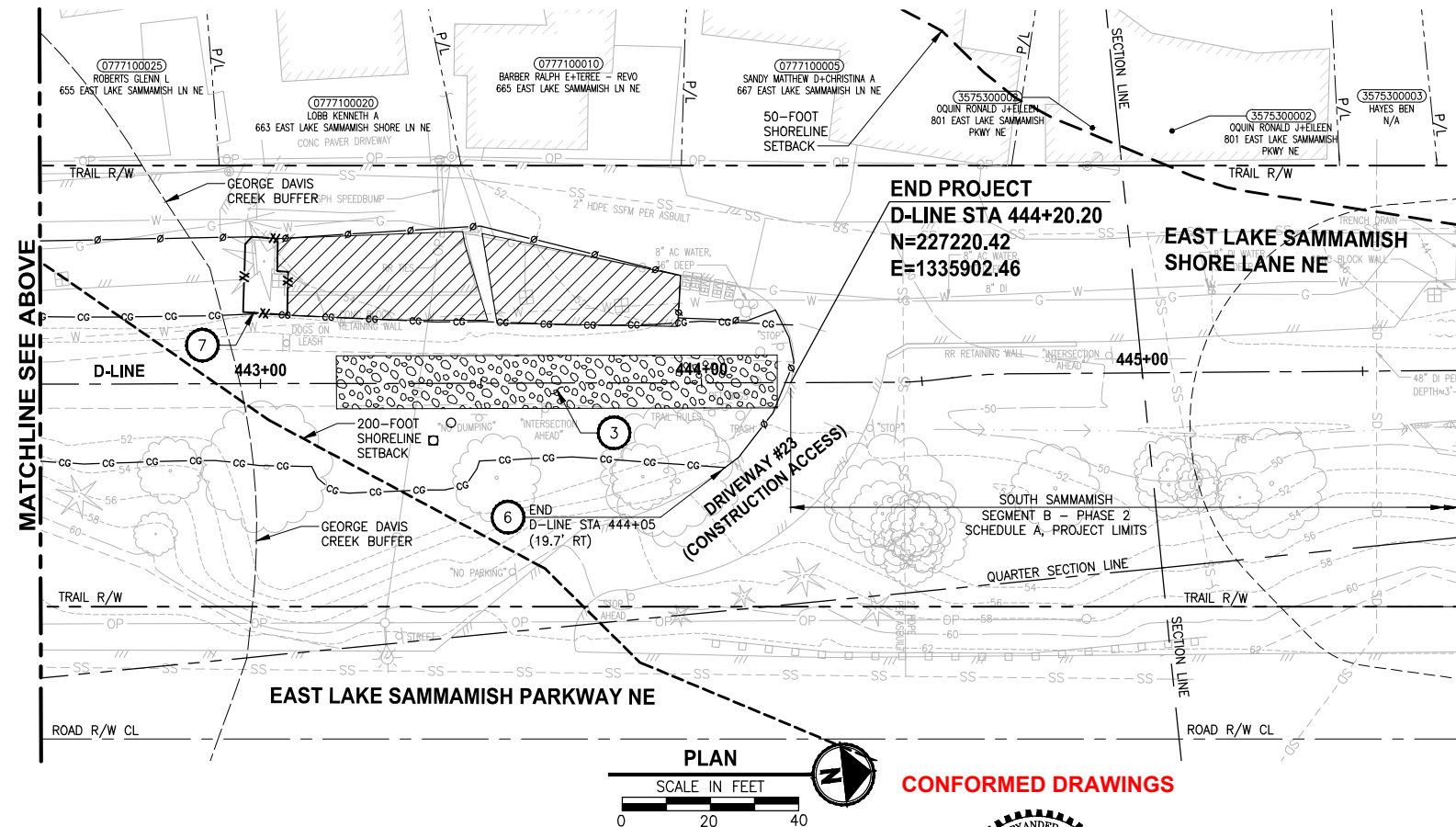
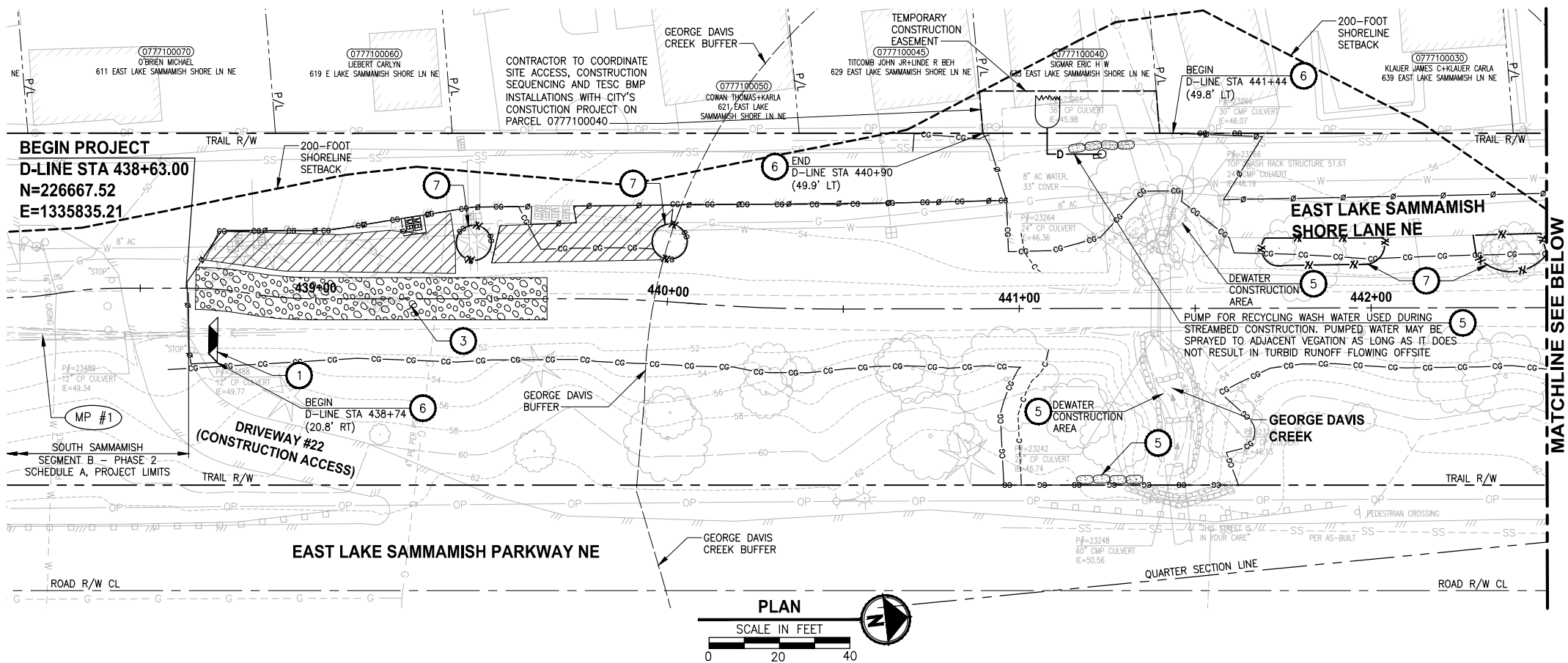
PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

SITE PREPARATION PLAN

SHEET NO.
189 OF 213

SP1

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CONSTRUCTION NOTES:

- 1 CHECK DAMS ON CHANNELS, PER WSDOT STD PLAN I-50.20-01 AND SEE APPENDIX B OF SPECS. USE BIODEGRADABLE CHECK DAMS.
- 2 NOT USED.
- 3 STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02 AND SEE APPENDIX B OF SPECS.
- 4 NOT USED.
- 5 INSTALL TEMPORARY STREAM DIVERSION. SEE SHEET TD1 AND SPECIAL PROVISIONS SECTION 7-06 FOR DETAILS.
- 6 TEMPORARY CHAIN LINK SECURITY FENCE, PER SPECIAL PROVISIONS SECTION 8-12.
- 7 HIGH VISIBILITY FENCE, PER WSDOT STD PLAN I-10.10-01 AND SEE APPENDIX B OF SPECS.
- 8 NOT USED.

LEGEND:

- CG CG CG CLEARING AND GRUBBING
- TEMPORARY CHAIN LINK SECURITY FENCE
- X X HIGH VISIBILITY FENCE
- WATTLE CHECK DAM
- PUMP
- PLASTIC SHEETING
- COFFERDAM
- TEMPORARY DRAIN PIPE
- STAGING AREA
- STABILIZED CONSTRUCTION ENTRANCE
- NPDES CONSTRUCTION STORMWATER DISCHARGE MONITORING POINT

GENERAL NOTES:

1. CONSTRUCTION METHODS SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE HPA PERMIT AND CSWGP. SEE CONTRACT DOCUMENTS FOR PROJECT PERMITS.
2. CONTRACTOR SHALL PERFORM CONSTRUCTION STORMWATER MONITORING AND SAMPLING FOR PARAMETERS AS SPECIFIED IN CSWGP.
3. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING DRAINAGE PATTERNS ARE MAINTAINED DURING AND AFTER CONSTRUCTION.
4. PRIVATE DRIVEWAYS ARE NOT AVAILABLE FOR CONSTRUCTION ACCESS.
5. SEE SPECIAL PROVISIONS FOR MAINTENANCE AND REMOVAL OF TESC BMPs.
6. SEE SP SHEETS FOR TREES TO BE REMOVED.
7. STAGING AREAS SHALL BE RESTORED TO EXISTING CONDITIONS. SEE CONSTRUCTION COORDINATION NOTES FOR ADDITIONAL NOTES REGARDING COORDINATION WITH CITY OF SAMMAMISH CONTRACTOR.

CONSTRUCTION COORDINATION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAMMAMISH CONTRACTOR. THE CITY CONTRACTOR IS PERFORMING STREAM CONSTRUCTION ON PARCEL 0777100040 TO THE WEST AND CULVERT REPLACEMENT AT EAST LAKE SAMMAMISH PARKWAY. COORDINATION SHALL AT MINIMUM INCLUDE SCHEDULING, WORK SEQUENCING, SHARED STAGING AREAS, SHARED SITE ACCESSSES, TEMPORARY STREAM DIVERSION AND STREAM COMMISSIONING TO ENSURE WORK IS COMPLETED AND ACCEPTED WITHIN THE IN-WATER WORK PERIOD APPROVED IN THE HPA.
2. THE CITY CONTRACTOR IS PERFORMING STREAM CONSTRUCTION ON PARCEL 0777100040 BEFORE WORK TO CONSTRUCT BOX CULVERT AT SHORE LANE NE SHALL BEGIN. WORK ON 0777100040 MAY BE COMPLETED OUTSIDE OF THE IN-WATER WORK WINDOW IN ACCORDANCE WITH THE APPROVED HPA.
3. THE CITY CONTRACTOR WILL PERFORM FISH EXCLUSION UPSTREAM AND DOWNSTREAM OF THE KING COUNTY PROJECT SITE, AND WILL INSTALL THE TEMPORARY STREAM BYPASS THAT WILL DIVERT FLOWS AROUND THE KING COUNTY PROJECT SITE.
4. CONTRACTOR SHALL NOT PERFORM IN WATER WORK UNTIL FISH EXCLUSION IS COMPLETED AND STREAM BYPASS IS FUNCTIONING BY CITY CONTRACTOR.
5. TEMPORARY STREAM DIVERSION ELEMENTS SUCH AS COFFERDAMS SHALL BE INSTALLED AT EAST AND WEST ENDS OF THE STREAM CONSTRUCTION TO MAINTAIN WORK ZONE SEPARATION WITH THE CITY CONTRACTOR. TEMPORARY STREAM DIVERSION ELEMENTS DISPLAYED IN PLANS REPRESENT PROPOSED STREAM ALIGNMENT FOR VISUAL REFERENCE. CONTRACTOR SHALL INSTALL THE TSD PLAN AS APPROVED BY THE ENGINEER, SEE SPECIAL PROVISIONS SECTION 7-06. SEE SHEET TD1 FOR TEMPORARY STREAM DIVERSION NOTES.
6. CONTRACTOR SHALL COMMISSION THE STREAM ON KING COUNTY PROPERTY AS APPROVED BY THE ENGINEER AS PART OF THE TEMPORARY STREAM DIVERSION PLAN. CONTRACTOR SHALL COORDINATE STREAM COMMISSIONING WITH THE CITY'S CONTRACTOR. STREAM COMMISSIONING SHALL BE COMPLETED WITHIN THE IN-WATER WORK WINDOW SET BY THE HPA PERMIT.

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

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17 February 2022

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
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			J. BAILEY

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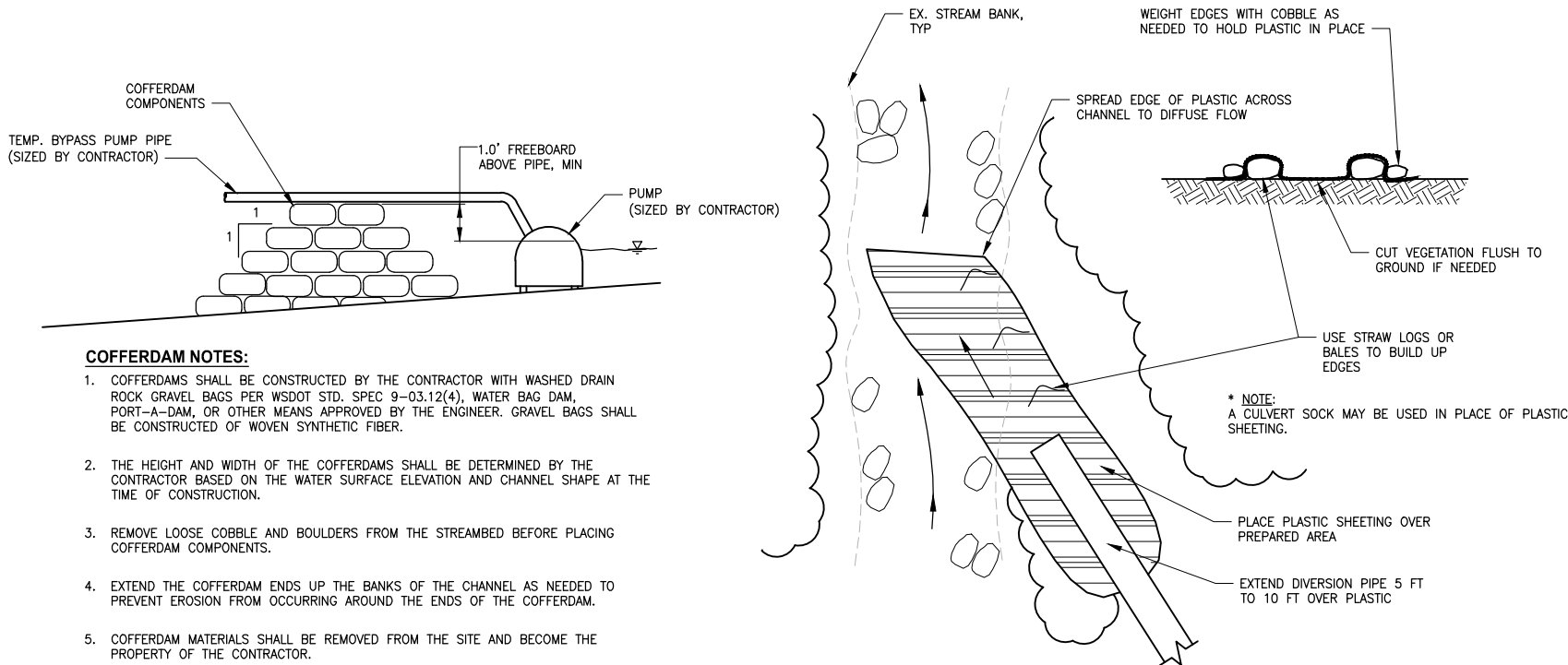
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PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

TESC PLAN

SHEET NO.
190 OF 213
TE1

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COFFERDAM NOTES:

1. COFFERDAMS SHALL BE CONSTRUCTED BY THE CONTRACTOR WITH WASHED DRAIN ROCK GRAVEL BAGS PER WSDOT STD. SPEC 9-03.12(4), WATER BAG DAM, PORT-A-DAM, OR OTHER MEANS APPROVED BY THE ENGINEER. GRAVEL BAGS SHALL BE CONSTRUCTED OF WOVEN SYNTHETIC FIBER.
2. THE HEIGHT AND WIDTH OF THE COFFERDAMS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE WATER SURFACE ELEVATION AND CHANNEL SHAPE AT THE TIME OF CONSTRUCTION.
3. REMOVE LOOSE COBBLE AND BOULDERS FROM THE STREAMBED BEFORE PLACING COFFERDAM COMPONENTS.
4. EXTEND THE COFFERDAM ENDS UP THE BANKS OF THE CHANNEL AS NEEDED TO PREVENT EROSION FROM OCCURRING AROUND THE ENDS OF THE COFFERDAM.
5. COFFERDAM MATERIALS SHALL BE REMOVED FROM THE SITE AND BECOME THE PROPERTY OF THE CONTRACTOR.

COFFERDAM
DETAIL

NOT TO SCALE

PLASTIC SHEET DIVERSION
DETAIL

NOT TO SCALE

DEWATER CONSTRUCTION AREA NOTES:

1. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR THE ENTIRE PROJECT TO THE ENGINEER FOR REVIEW AND APPROVAL WITH THE TEMPORARY STREAM DIVERSION PLAN, PER SPECIAL PROVISIONS SECTION 7-06.
2. THE DEWATERING PLAN SHALL INCLUDE LOCATION FOR PUMPED WATER DISPOSAL. PUMPED WATER MAY BE SPRAYED OVER EXISTING VEGETATION OR CONNECTED TO TEMPORARY BYPASS (STREAM OR STORM DRAIN), HOWEVER IF PUMPED TO SURFACE WATER, SITE DISCHARGE WATER SHALL MEET TURBIDITY REQUIREMENTS OF THE CONSTRUCTION STORMWATER GENERAL PERMIT.
3. THE DEWATERING SYSTEM SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
4. DEWATERING COSTS FOR STREAM CONSTRUCTION SHALL BE INCIDENTAL TO BID ITEM TEMPORARY STREAM DIVERSION.

TEMPORARY STREAM DIVERSION NOTES:

1. CONTRACTOR SHALL SUBMIT THE TEMPORARY STREAM DIVERSION (TSD) PLAN TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE PER SPECIAL PROVISIONS SECTION 7-06.
2. CONTRACTOR SHALL COORDINATE TEMPORARY STREAM DIVERSION WITH THE STREAM BYPASS SYSTEM IMPLEMENTED BY THE CITY OF SAMMAMISH CONTRACTOR COMPLETING THE CULVERT REPLACEMENT AND STREAM CONSTRUCTION BOTH ON THE DOWNSTREAM PARCEL (0777100040) AND AT THE EAST LAKE SAMMAMISH PARKWAY.
3. THE CITY CONTRACTOR WILL PERFORM FISH EXCLUSION UPSTREAM AND DOWNSTREAM OF THE KING COUNTY PROJECT SITE, AND WILL INSTALL THE TEMPORARY STREAM BYPASS THAT WILL USE THE EMERGENCY OVERFLOW CONVEYANCE SYSTEM THAT DIVERTS FLOWS UPSTREAM OF EAST LAKE SAMMAMISH PARKWAY AND OUTFALLS TO THE LAKE NORTH OF THE KING COUNTY PROJECT SITE.
4. THE CONTRACTOR SHALL FURNISH WATER NEEDED DURING STREAMBED CONSTRUCTION FOR WASHING STREAMBED SEDIMENTS INTO EACH LIFT OF STREAMBED MATERIAL PLACED TO SEAL THE BED, SEE FP SHEETS FOR DETAILS.
5. METHODS FOR STREAM (REWATERING) COMMISSIONING SHALL BE DETAILED IN THE TEMPORARY STREAM DIVERSION PLAN, PER SPECIAL PROVISION 7-06. BECAUSE THE STREAM BYPASS BY THE CITY'S CONTRACTOR WILL DIRECT FLOW AWAY FROM THE PROJECT SITE, THE CONTRACTOR SHALL FURNISH WATER NEEDED DURING STREAMBED CONSTRUCTION PER CONSTRUCTION NOTES IN FP SHEETS. WATER MAY BE RE-USED OR RECYCLED DURING STREAMBED CONSTRUCTION, BUT WATER EXCEEDING BACKGROUND STREAM TURBIDITY BENCHMARKS MAY NOT BE DISCHARGED DOWNSTREAM, PER THE TSD PLAN AND APPROVED HPA.
6. STREAM COMMISSIONING SHALL BE COORDINATED WITH THE CITY'S CONTRACTOR AT LEAST 10 DAYS BEFORE THAT WORK ELEMENT IS TO BEGIN. THE PLAN SHALL BE DISCUSSED AT A CONSTRUCTION MEETING WITH THE PROJECT REPRESENTATIVE.
7. THE CONTRACTOR SHALL COMPLETE ALL WORK BELOW GEORGE DAVIS CREEK ORDINARY HIGH WATER MARK BY SEPTEMBER 30, IN ACCORDANCE WITH THE APPROVED HPA.
8. STREAM FLOW RATES ARE INCLUDED IN A TABLE BELOW AS REFERENCE TO THE CONTRACTOR, BUT A PUMP FOR THE LOW FLOW OR OTHER MAY NOT BE NECESSARY BECAUSE THE CITY'S PROJECT WILL INSTALL A TEMPORARY STREAM BYPASS THAT WILL DIVERT FLOWS AROUND THE PROJECT SITE. ALL IN WATER STREAM WORK MUCH BE COMPLETE WITHIN THE DATES ESTABLISHED IN THE APPROVED HPA.

TEMPORARY BYPASS FLOW RATES * FISH PASSAGE CULVERTS			
STA	STREAM	LOW FLOW (CFS)	FLOW (GPM)
441+40	GEORGE DAVIS CREEK	11.0	4,937

* SEE NOTE 8

CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW

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CITY OF SAMMAMISH APPROVAL

City Engineer	Date
Community Development	Date

CONFORMED DRAWINGS



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PROJECT NAME

EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2

SAMMAMISH, WA

TESC DETAILS

SHEET NO.
191 OF 213

TD1

REVISIONS	DATE	BY	DESIGNED C. BUITRAGO
			DRAWN B. PURGANAN
			CHECKED Y. HO
			APPROVED J. BAILEY

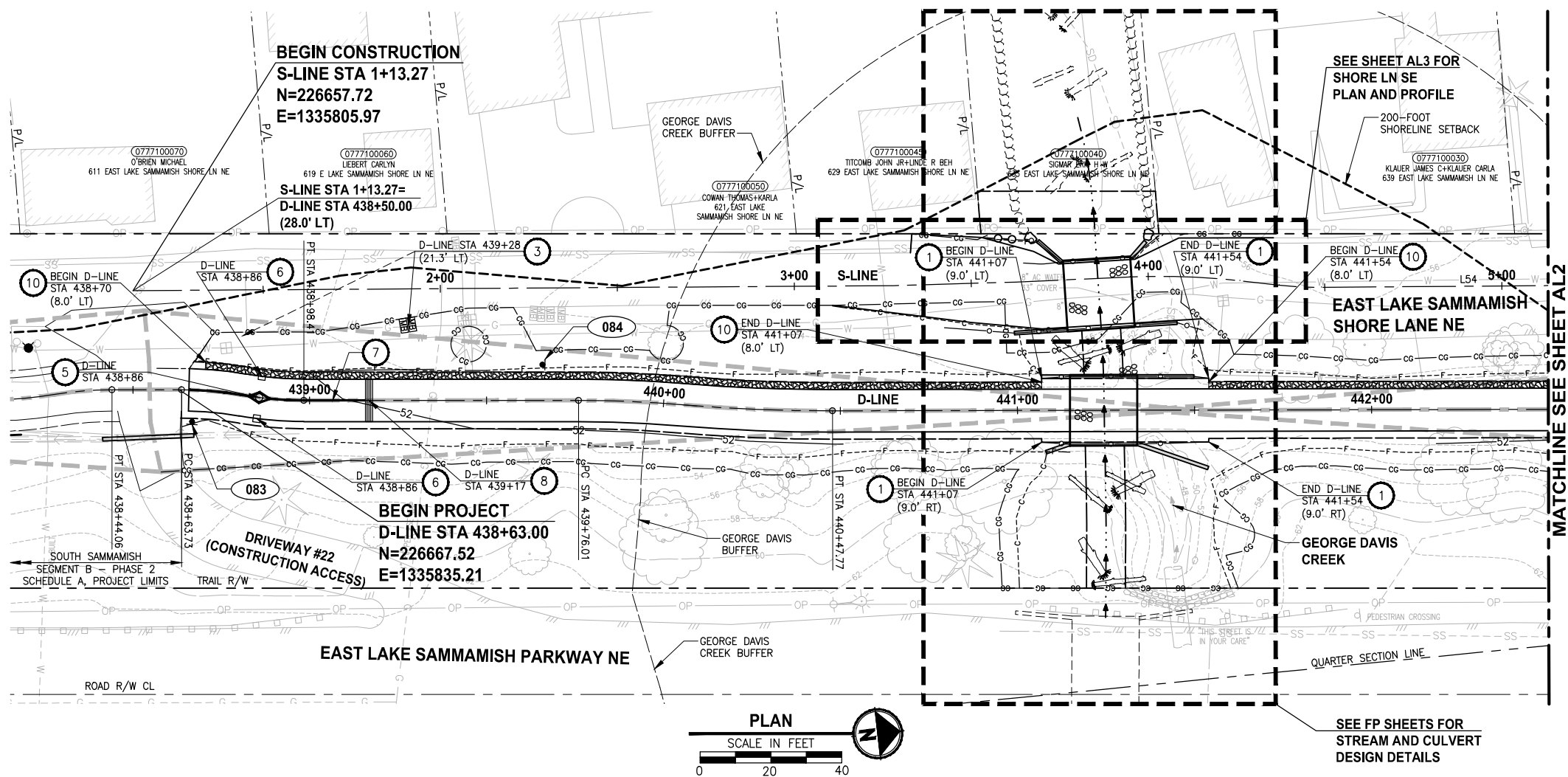
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CIVIL CONSTRUCTION NOTES:

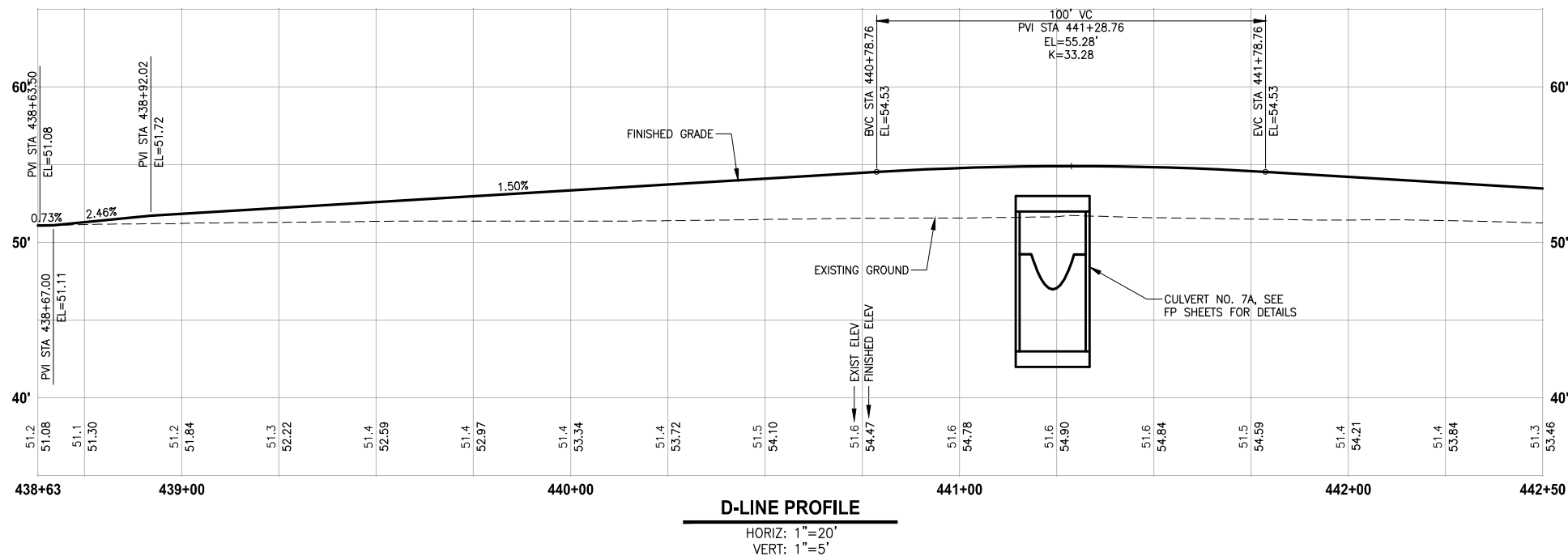
1. INSTALL 4-FOOT COATED CHAIN LINK FENCE. SEE DETAILS ON SHEET MD1.
2. INSTALL 4-FOOT COATED CHAIN LINK SINGLE (SWING) GATE PER WSDOT STD PLAN L-30.10-02.
3. INSTALL SALVAGED MAILBOX ON NEW POST PER WSDOT STANDARD PLAN H-70.20-01. NOTIFY AND COORDINATE POSTMASTER.
4. INSTALL PET WASTE STATION. SEE APPENDIX B OF SPECIFICATIONS FOR DETAILS.
5. INSTALL TOP LOCKING REMOVABLE BOLLARD PER DETAILS ON SHEET MD3.
6. INSTALL FIXED BOLLARDS PER DETAILS ON SHEET MD4.
7. INSTALL BOLLARD STRIPING PER DETAIL 1 MD5 2 MD5
8. CONCRETE WARNING BAND PER DETAIL 3 MD5
9. INSTALL TRASH RECEPTACLE, SEE APPENDIX B OF SPECIFICATIONS.
10. INFILTRATION TRENCH, PER DETAIL 3 MD4

LEGEND:

- CHAIN LINK FENCE
- SIGN, SEE SHEET AL2 FOR SIGN SCHEDULE.
- 14.5' X 295' SIGHT DISTANCE TRIANGLE FOR STOP CONTROLLED INTERSECTION ON DRIVEWAYS PER COS STD FIG 02-19A

GENERAL NOTES:

1. SEE UT SHEETS FOR UTILITY RELOCATION/ADJUSTMENTS.
2. EXISTING FEATURES/TREES CALLED OUT TO BE REMOVED ON SP SHEETS ARE NOT SHOWN ON AL SHEETS FOR CLARITY PURPOSES.
3. SEE LA SHEETS FOR RESTORATION ALONG TRAIL SIDE OR ALONG BOTTOM OF WALLS.
4. FOR SIGN REMOVAL, SEE SP SHEETS.
5. STATION CALLOUTS ARE MEASURED TO THE CENTER OF WARNING BAND AND BOLLARDS.



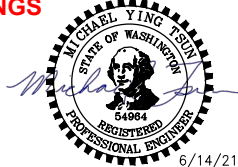
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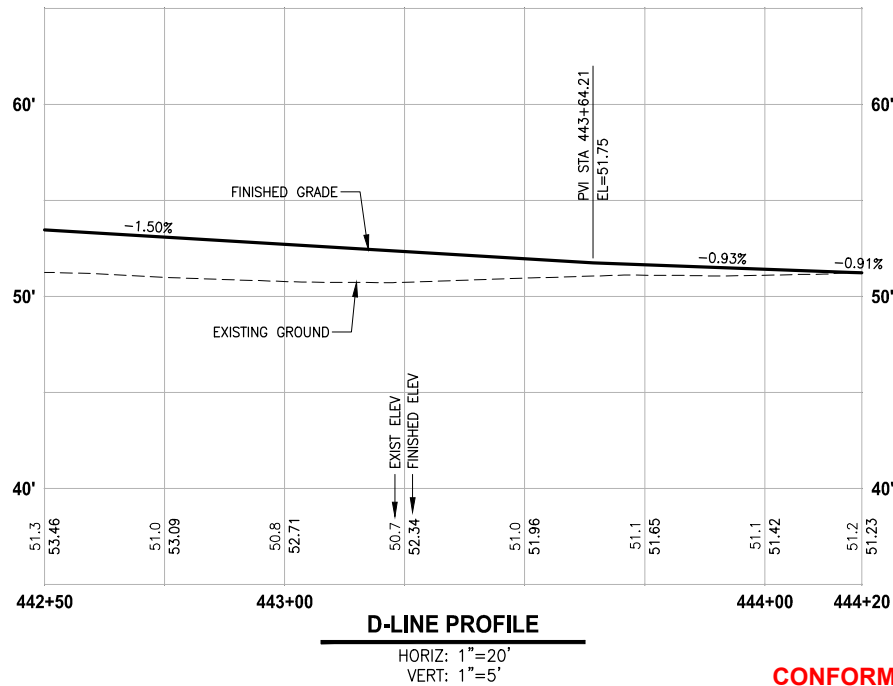
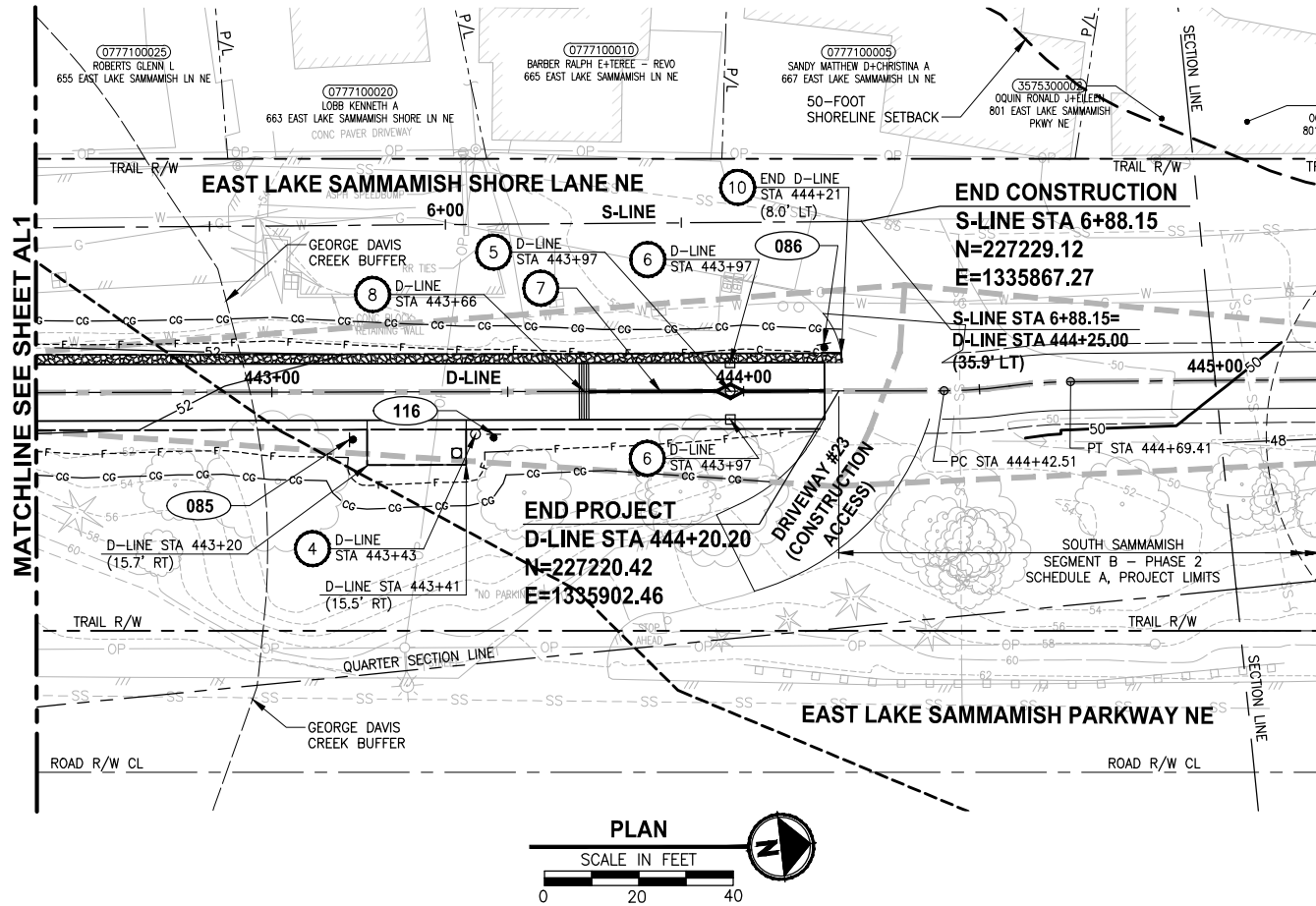
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

TRAIL PLAN AND PROFILE

SHEET NO.
192 OF 213

AL1

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CONFORMED DRAWINGS

CIVIL CONSTRUCTION NOTES:

1. INSTALL 4-FOOT COATED CHAIN LINK FENCE. SEE DETAILS ON SHEET MD1.
2. INSTALL 4-FOOT COATED CHAIN LINK SINGLE (SWING) GATE PER WSDOT STD PLAN L-30.10-02.
3. INSTALL SALVAGED MAILBOX ON NEW POST PER WSDOT STANDARD PLAN H-70.20-01. NOTIFY AND COORDINATE POSTMASTER.
4. INSTALL PET WASTE STATION. SEE APPENDIX B OF SPECIFICATIONS FOR DETAILS.
5. INSTALL TOP LOCKING REMOVABLE BOLLARD PER DETAILS ON SHEET MD3.
6. INSTALL FIXED BOLLARDS PER DETAILS ON SHEET MD4.
7. INSTALL BOLLARD STRIPING PER DETAIL
8. CONCRETE WARNING BAND PER DETAIL
9. INSTALL TRASH RECEPTACLE, SEE APPENDIX B OF SPECIFICATIONS.
10. INFILTRATION TRENCH, PER DETAIL

LEGEND:

- CHAIN LINK FENCE
- SIGN, SEE SHEET AL2 FOR SIGN SCHEDULE.
- 14.5' X 295' SIGHT DISTANCE TRIANGLE FOR STOP CONTROLLED INTERSECTION ON DRIVEWAYS PER COS STD FIG 02-19A

GENERAL NOTES:

1. SEE UT SHEETS FOR UTILITY RELOCATION/ADJUSTMENTS.
2. EXISTING FEATURES/TREES CALLED OUT TO BE REMOVED ON SP SHEETS ARE NOT SHOWN ON AL SHEETS FOR CLARITY PURPOSES.
3. SEE LA SHEETS FOR RESTORATION ALONG TRAIL SIDE OR ALONG BOTTOM OF WALLS.
4. FOR SIGN REMOVAL, SEE SP SHEETS.
5. STATION CALLOUTS ARE MEASURED TO THE CENTER OF WARNING BAND AND BOLLARDS.

SIGN SCHEDULE

SIGN NUMBER	LOCATION			DESCRIPTION	MUTCD SIGN	SIGN SIZE	POST SIZE/TYPE	REMARK
	LINE	STATION	OFFSET					
083	D-LINE	438+67	9.0' RT	STOP	R1-1	30" X 30"	2" STEEL SQUARE*	NEW SIGN AND POST
084	D-LINE	439+66	10.1' LT	INTERSECTION WARNING SYMBOL	W2-1	18" X 18"	2" STEEL SQUARE*	NEW SIGN AND POST
085	D-LINE	443+17	10.1' RT	INTERSECTION WARNING SYMBOL	W2-1	18" X 18"	2" STEEL SQUARE*	NEW SIGN AND POST
086	D-LINE	444+17	9.25' LT	STOP	R1-1	30" X 30"	2" STEEL SQUARE*	NEW SIGN AND POST
116	D-LINE	443+47	9.75' RT	ELST TRAIL RULES	CUSTOM	N/A	2" STEEL SQUARE*	NEW SIGN AND POST. SIGN TO BE PROVIDED BY THE OWNER.

* SEE SHEET MD1 FOR SIGN POST DETAILS.

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

17 February 2022

CITY OF SAMMAMISH APPROVAL

City Engineer	Date
Community Development	Date

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03AL-01_GCD

JOB No.
554-1521-075 P19 T03

DATE
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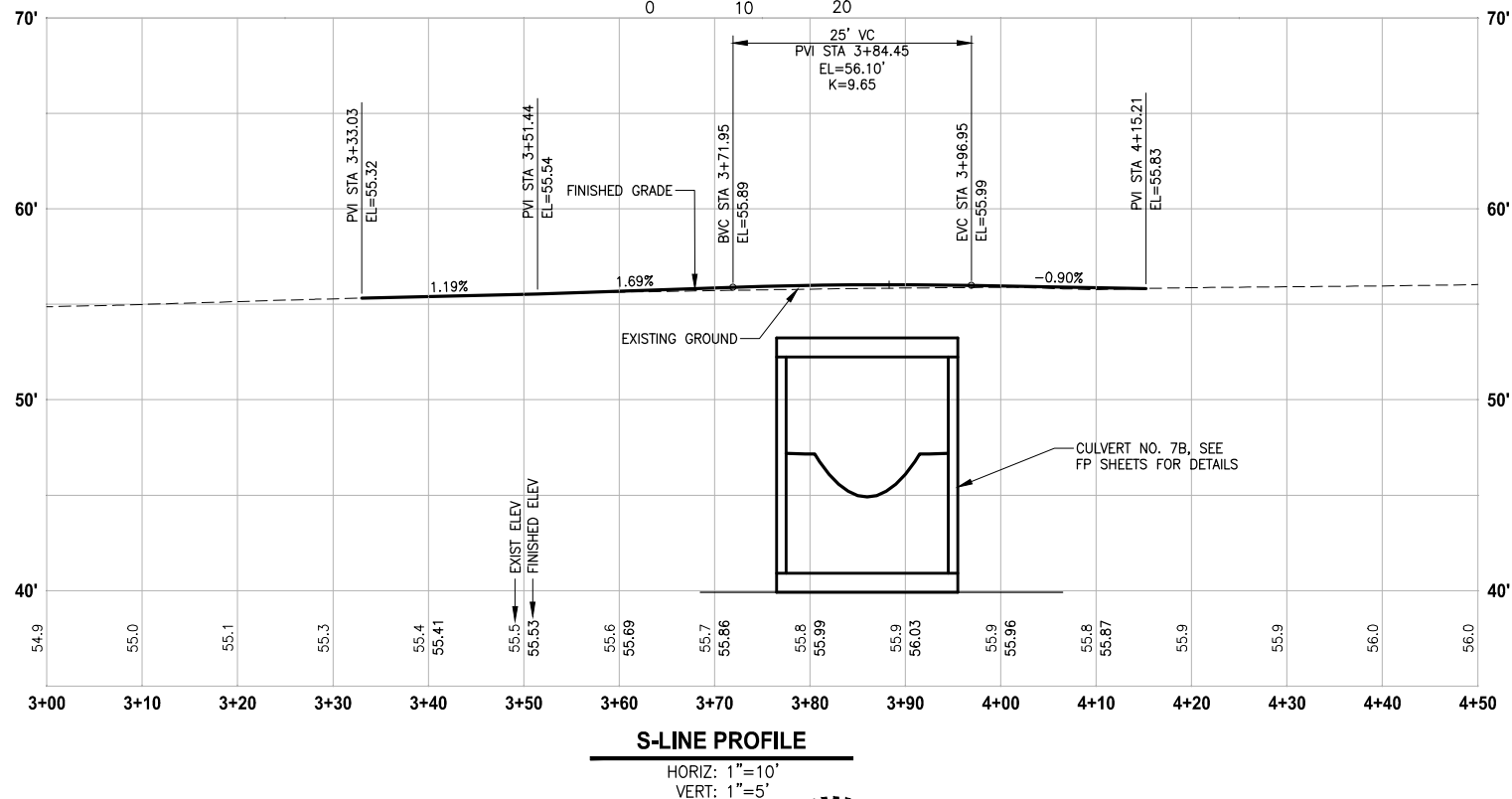
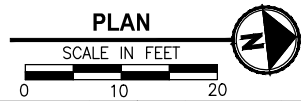
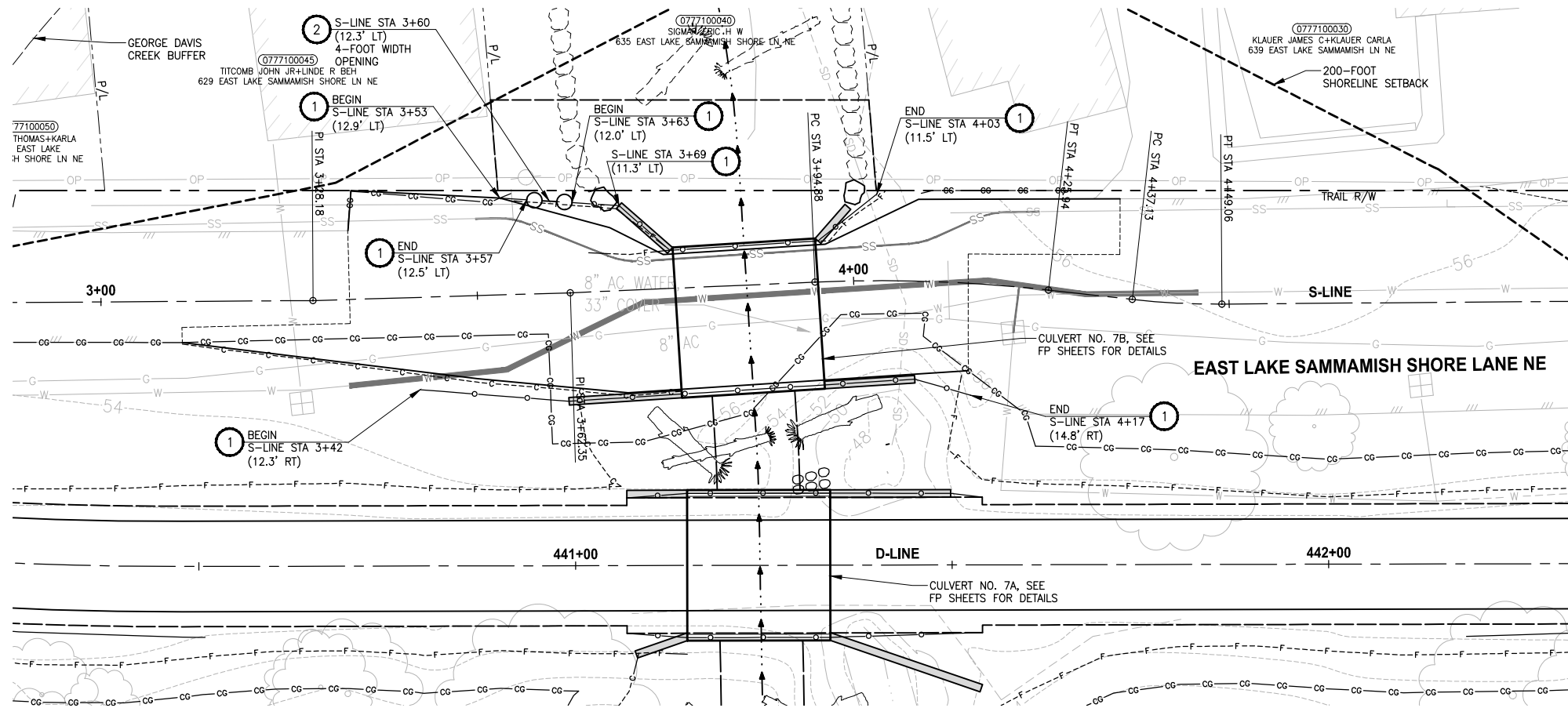
PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

TRAIL PLAN AND PROFILE

SHEET NO.
193 OF 213

AL2

PATH: U:\P50\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Sect\CADD\Phase 19\T03_Civil\Draw-COC Phase2\ PLOTTED BY: purgabut DATE: Sunday, June 13, 2021 4:40:57 PM LAYOUT: AL3



CONFORMED DRAWINGS

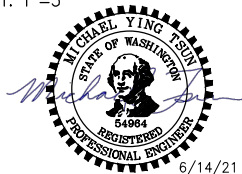
REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

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FILE NAME
BL1521075P19T03AL-03_GD

JOB No.
554-1521-075 P19 T03

DATE
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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

ROAD PLAN AND PROFILE

SHEET NO.
194 OF 213

AL3

CIVIL CONSTRUCTION NOTES:

1. INSTALL 4-FOOT COATED CHAIN LINK FENCE. SEE DETAILS ON SHEET MD1.
2. INSTALL 4-FOOT COATED CHAIN LINK SINGLE (SWING) GATE PER WSDOT STD PLAN L-30.10-02.
3. INSTALL SALVAGED MAILBOX ON NEW POST PER WSDOT STANDARD PLAN H-70.20-01. LOCATION TO BE REVIEWED BY POSTMASTER.
4. INSTALL PET WASTE STATION. SEE APPENDIX B OF SPECIFICATIONS FOR DETAILS.
5. INSTALL TOP LOCKING REMOVABLE BOLLARD PER DETAILS ON SHEET MD3.
6. INSTALL FIXED BOLLARDS PER DETAILS ON SHEET MD4.

LEGEND:

- CHAIN LINK FENCE
- RETAINING WALL

GENERAL NOTES:

1. SEE UT SHEETS FOR UTILITY IMPROVEMENTS.
2. EXISTING FEATURES/TREES CALLED OUT TO BE REMOVED ON SP SHEETS ARE NOT SHOWN ON AL SHEETS FOR CLARITY PURPOSES.
3. SEE LA SHEETS FOR RESTORATION ALONG TRAIL SIDE OR ALONG BOTTOM OF WALLS.
4. SEE TE SHEETS FOR CUT WALL BACK SLOPE RESTORATION TREATMENT.
5. FOR SIGN REMOVAL, SEE SP SHEETS.
6. STATION CALLOUTS ARE MEASURED TO THE CENTER OF WARNING BAND AND BOLLARDS.
7. SEE PV SHEET FOR PAVING PLAN.

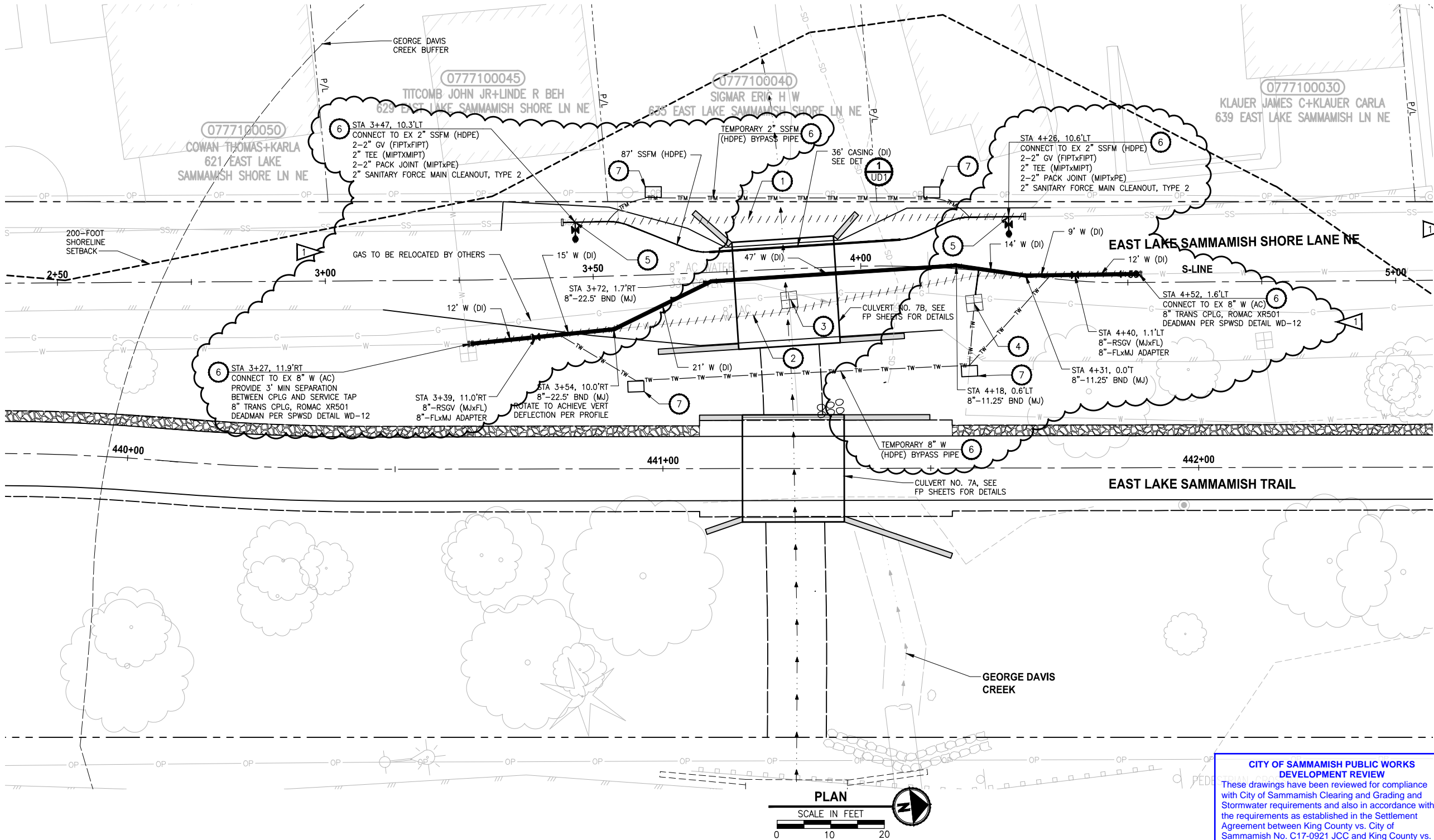
CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

17 February 2022

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

PATH: U:\P50\Projects\Clients\1521-075-ELST\98Sect\CADD\Phase 19\T03 Ch1\Draw-CDC Phase2\LAYOUT: UT1 PLOTTED BY: purgabut DATE: Sunday, November 14, 2021 12:53:58 PM



CONSTRUCTION NOTES:

- 1 REMOVE 2" SSFM (HDPE)
- 2 REMOVE EX 8" W (AC)
- 3 WATER METER TO BE ABANDONED PRIOR TO CONSTRUCTION.
- 4 ADJUST WATER METER TO FINISHED GRADE. WATER SERVICE LINE ASSUMED TO BE FROM WATER MAIN TO THE EAST. CONTRACTOR TO VERIFY IN FIELD. IF SERVICE LINE IS FROM PIPE TO BE REMOVED, NEW SERVICE LINE SHALL BE CONSTRUCTED FROM NEW TEMPORARY AND PERMANENT 8" WATER TO EXISTING WATER METER.
- 5 FORCE MAIN TRACER WIRE LOCATE STATION PER SPWSD STANDARD SEWER DETAILS.
- 6 SEE CONNECTION DETAILS SHEET UD2.
- 7 PROVIDE TEMPORARY THRUST RESTRAINT FOR BENDS ON ABOVE-GRADE TEMPORARY PIPING. SEE DETAIL 2, SHEET UD2.

GENERAL NOTES:

1. CONTRACTOR SHALL CONTACT SAMMAMISH PLATEAU WATER AND SEWER DISTRICT (SPWSD) PRIOR TO WORK ON WATER OR LOW PRESSURE SEWER MAIN. CONTRACTOR SHALL SUBMIT TEMPORARY BYPASS PLANS FOR WATER AND SEWER WITHIN 3 WEEKS OF NOTICE TO PROCEED. TEMPORARY BYPASSES FOR THE WATER AND SEWER SHALL BE SUBMITTED AND APPROVED BY SPWSD AT LEAST 3 WEEKS PRIOR TO IMPLEMENTATION OF THE BYPASS. CONTRACTOR SHALL CONTACT SPWSD 7 BUSINESS DAYS BEFORE PERFORMING WORK ON WATER LINE AND LOW PRESSURE SEWER MAIN. SEE SHEET UD2 FOR SSFM AND WATER CONNECTION DETAILS.
2. ALL WORK ON WATER LINE AND LOW PRESSURE SEWER MAIN, INCLUDING TEMPORARY BYPASS LINES, SHALL MEET THE STANDARDS OF THE SPWSD TECHNICAL SPECIFICATIONS (SEE APPENDIX F). NO WORK SHALL BE ALLOWED WITHOUT APPROVAL FROM THE SPWSD ENGINEER.
3. LOW PRESSURE SANITARY SEWER FORCE MAIN SHALL BE 2" HDPE, SDR 11 PIPE WITH TRACER WIRE PER SPWSD TECHNICAL SPECIFICATIONS. PIPE TRENCH SHALL BE IN ACCORDANCE WITH SPWSD STANDARD SEWER DETAILS - SANITARY SEWER TRENCH SECTION, PROVIDED IN APPENDIX F.
4. WATER MAIN SHALL BE 8" ZINC COATED, CLASS 52 DUCTILE IRON PIPE WRAPPED WITH V-BIO POLYWRAP PER SPWSD TECHNICAL SPECIFICATIONS. PIPE TRENCH SHALL BE IN ACCORDANCE WITH SPWSD STANDARD WATER DETAILS - WATER MAIN TRENCH SECTION, PROVIDED IN APPENDIX F.
5. ALL WATER PIPE FITTINGS AND JOINTS SHALL BE RESTRAINED AND PROVIDED WITH THRUST BLOCKS IN ACCORDANCE WITH SPWSD STANDARD WATER DETAILS - CONCRETE BLOCKS, PROVIDED IN APPENDIX F.
6. CONTRACTOR SHALL POTHOLE AND VERIFY DEPTH OF EXISTING UTILITIES AT CONNECTION POINTS PRIOR TO CONSTRUCTION.
7. APPROXIMATE LOCATION OF THE EXISTING 8" AC WATER MAIN IS SHOWN IN THE PLANS. THE CONTRACTOR SHALL REMOVE THE EXISTING AC WATER MAIN PER SPECIAL PROVISIONS SECTION 2-02.
8. SEE SHEETS UD1 AND UD2 FOR SSFM AND WATER PIPE PROFILES AND CONNECTION DETAILS.
9. CONTRACTOR SHALL PROTECT TEMPORARY ABOVE GROUND INSTALLATIONS FROM DAMAGE, VANDALISM, AND FREEZING.

CONTACT INFORMATION:

SAMMAMISH PLATEAU WATER AND SEWER DISTRICT
OFFICE: (425) 392-6256
DIRECT: (425) 295-3203
CONTACT: KYLE WONG

PUGET SOUND ENERGY (GAS)
(425) 449-7410
CONTACT: JEANNE COLEMAN

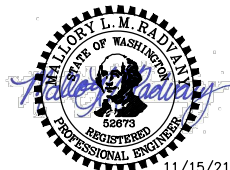
PUGET SOUND ENERGY (POWER)
(425) 458-4542
CONTACT: JOSHUA GRENNER

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

Addendum 2

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW
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17 February 2022

CONFORMED DRAWINGS



REVISIONS	DATE	BY	DESIGNED
1	ADDENDUM 2	11/15/21	JA
			M. RADVANY
			R. MCCABE
			Y. HO
			APPROVED J. BAILEY

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JOB No.: 554-1521-075 P19 T03
DATE: JUNE 2021

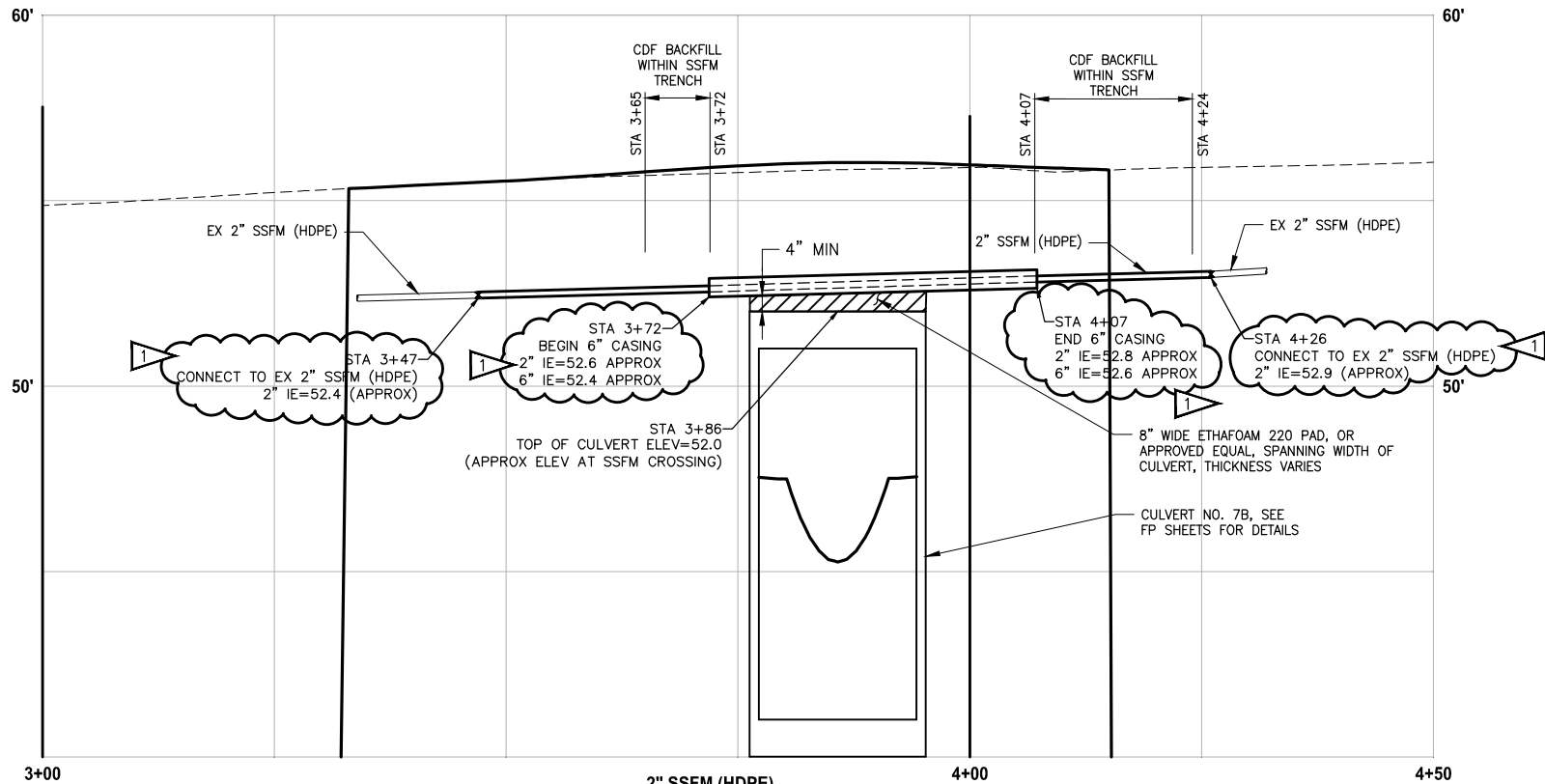
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PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

UTILITY PLAN
Addendum 2

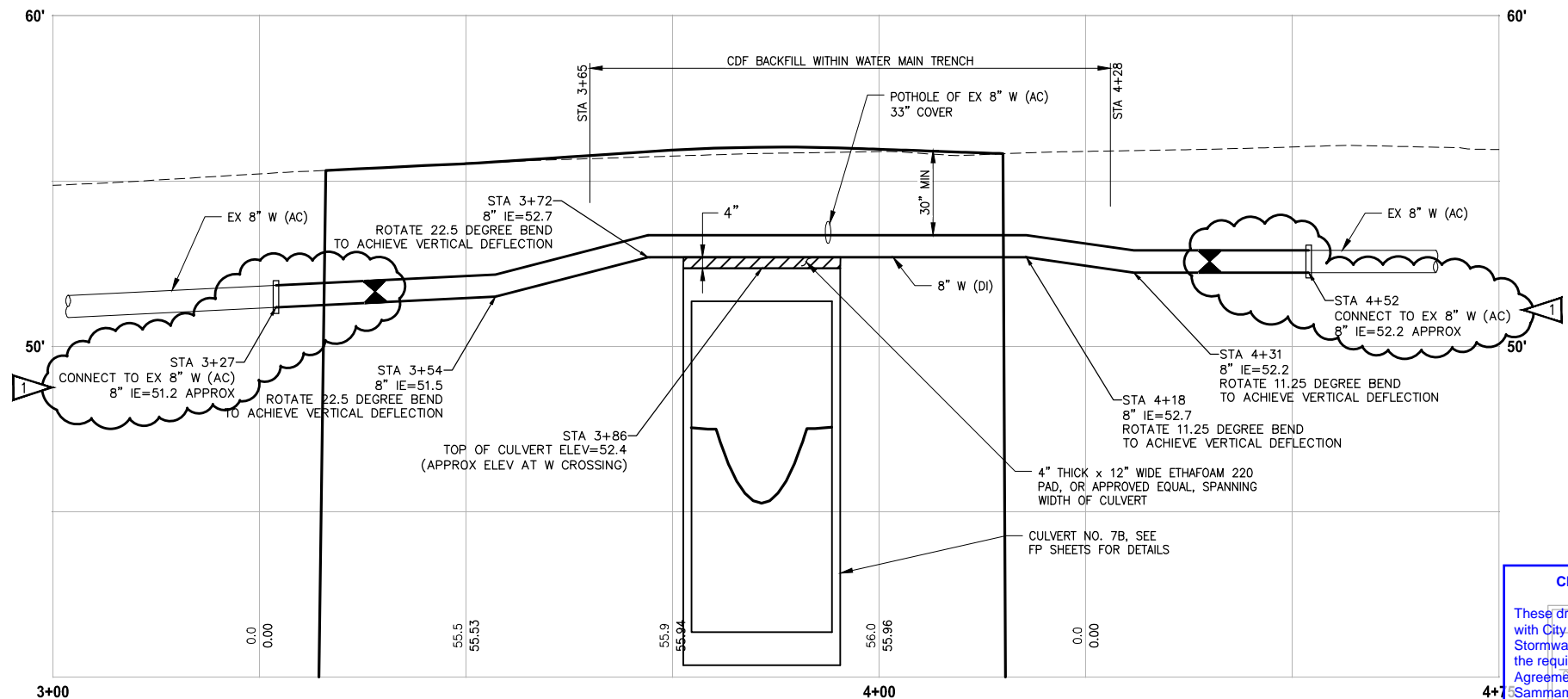
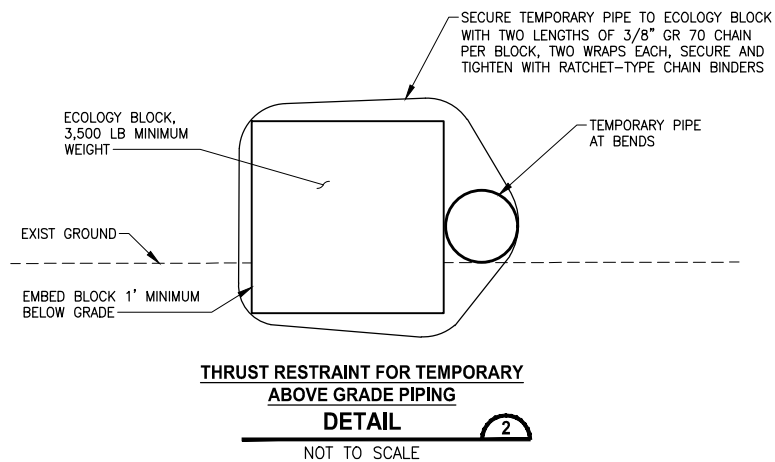
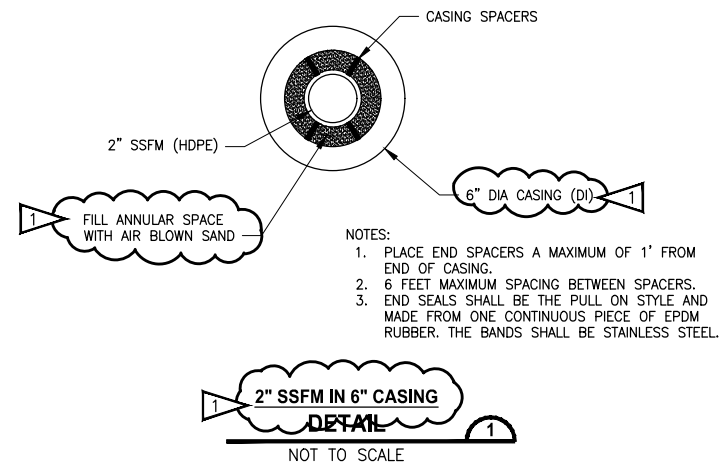
SHEET NO.
195 OF 213
UT1

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**2" SSFM (HDPE)
PROFILE**

HORIZ: 1"=10'
VERT: 1"=2.5'



**8" WATER (DI)
PROFILE**

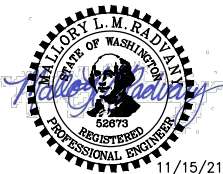
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VERT: 1"=2.5'

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed **ACCEPTABLE**. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

Notes: 2
17 February 2022

CONFORMED DRAWINGS



REVISIONS	DATE	BY	DESIGNED
1	ADDENDUM 2	11/15/21	JA
			M. RADVANY
			R. MCCABE
			Y. HO
			J. BAILEY

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JOB No. 554-1521-075 P19 T03
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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

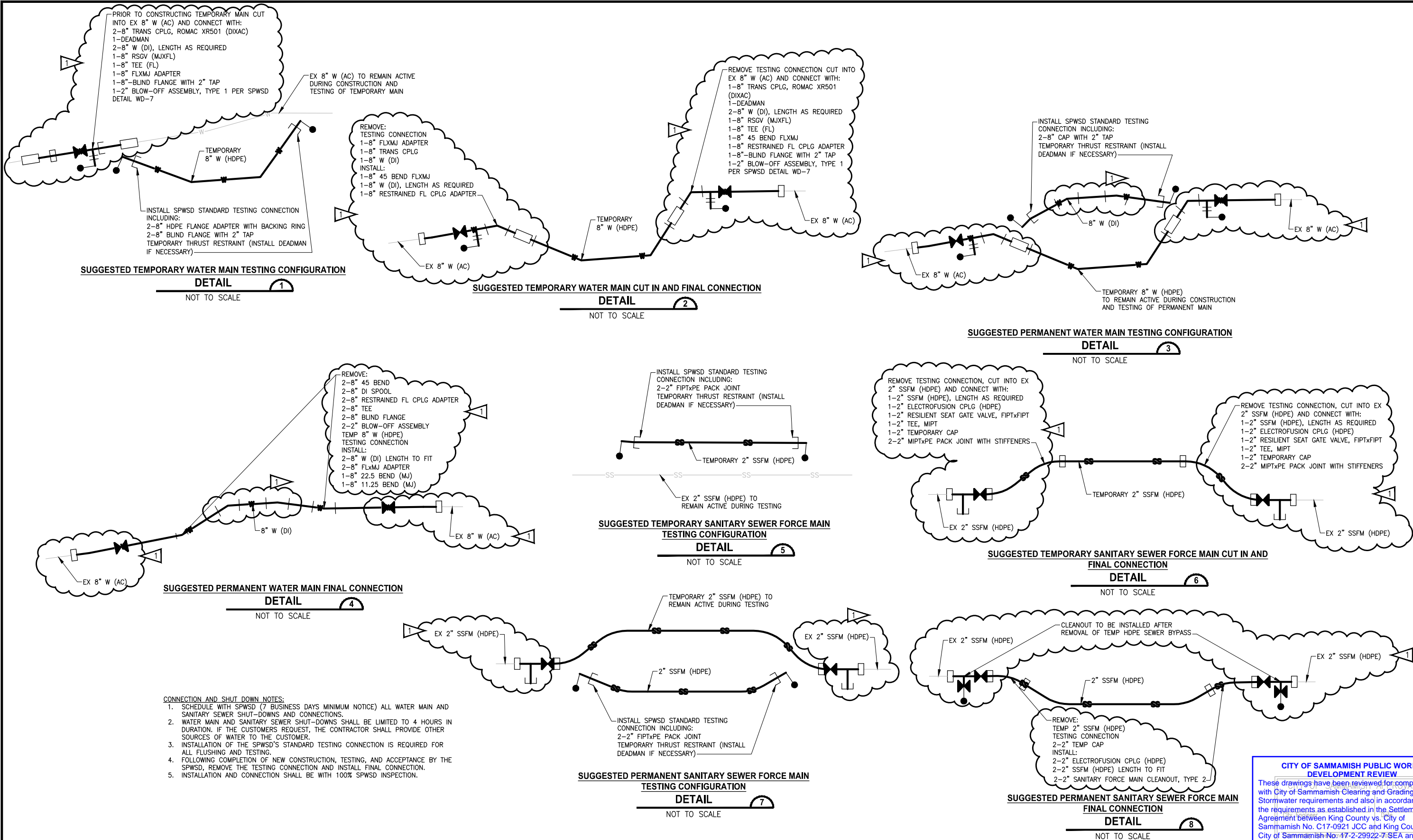
SAMMAMISH, WA

**UTILITY DETAILS
Addendum 2**

SHEET NO.
196 OF 213

UD1

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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

UTILITY DETAILS
Addendum 2

SHEET NO.
197 OF 213

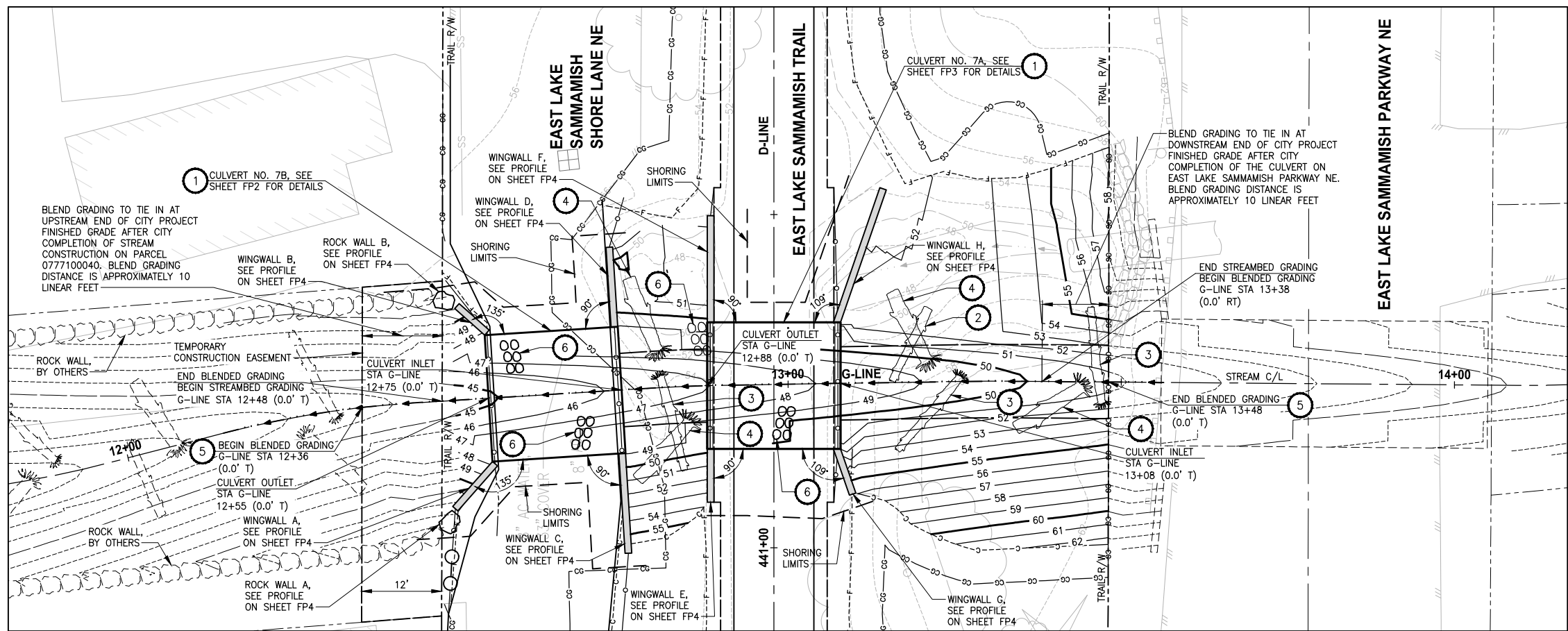
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**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**

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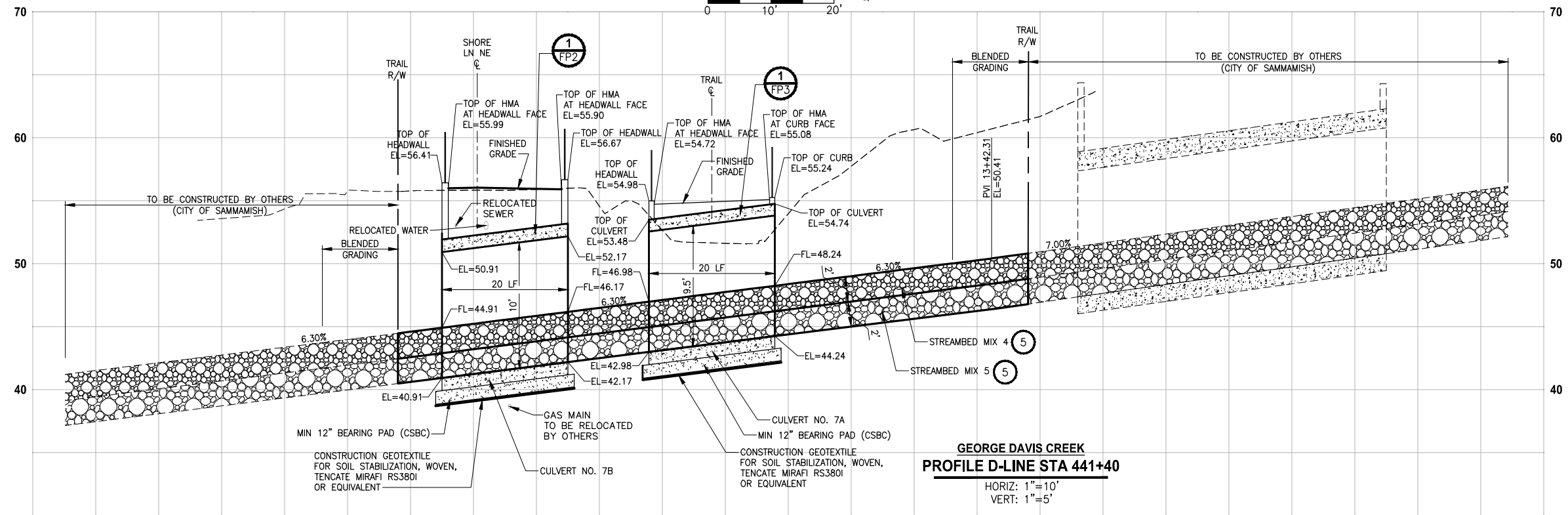
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GEORGE DAVIS CREEK

PLAN

SCALE IN FEET



GEORGE DAVIS CREEK

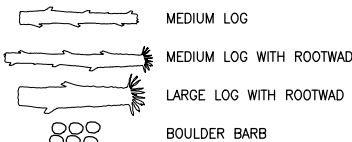
PROFILE D-LINE STA 441+40

HORIZ: 1"=10'
VERT: 1"=5'

STREAM CONSTRUCTION NOTES:

1. CONTRACTOR DESIGNED BURIED STRUCTURE SHALL BE PRECAST CONCRETE SPLIT BOX CULVERT PER WSDOT SPECIFICATION 6-20.3 AND INCLUDE ASSOCIATED WINGWALLS AND HEADWALLS.
2. MEDIUM LOG, SEE DETAILS ON SHEET FP5.
3. MEDIUM LOG WITH ROOTWAD, SEE DETAILS ON SHEET FP5.
4. LARGE LOG WITH ROOTWAD, SEE DETAILS ON SHEET FP5.
5. CONSTRUCT STREAMBED PER SPECIAL PROVISIONS SECTION 8-32. SEE SHEET FP5 FOR STREAMBED MIX 4 AND STREAMBED MIX 5 DETAILS AND CHANNEL SECTION DETAILS.
6. BOULDER BARB, PER SPECIAL PROVISIONS, SECTION 8-32. SEE STREAMBED BOULDER SIZING TABLE ON SHEET FP5.

LEGEND:



GENERAL NOTES:

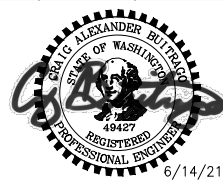
1. BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JULY 1 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX A OF THE SPECIAL PROVISIONS.
2. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL FISH REMOVAL (BY THE CITY) IS COMPLETED AND TEMPORARY STREAM DIVERSION IS WORKING.
3. LARGE WOODY DEBRIS FEATURES, ONE-MAN BOULDERS, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD AT THE DIRECTION OF THE ENGINEER. SEE SPECIAL PROVISIONS SECTIONS 8-02.
4. STREAMBED TO BE CONSTRUCTED PER PLANS AS PROVIDED IN FP SHEETS AND IN SPECIAL PROVISIONS SECTION 8-32.
5. SEE TEMPORARY STREAM DIVERSION NOTES IN SHEET TD1 FOR STREAM CONSTRUCTION AND COMMISSIONING NOTES.

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

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CONFORMED DRAWINGS



6/14/21

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PROJECT NAME

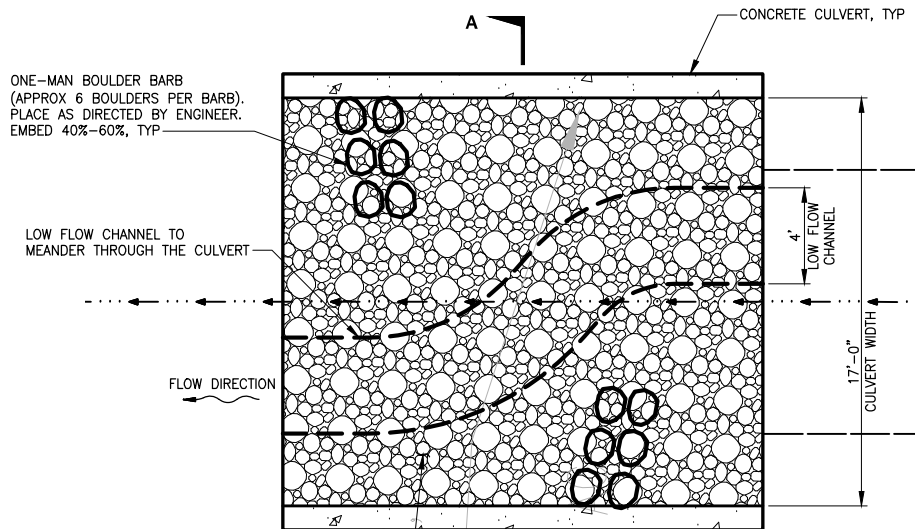
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

FISH PASSAGE CULVERTS
STREAM PLAN AND PROFILE

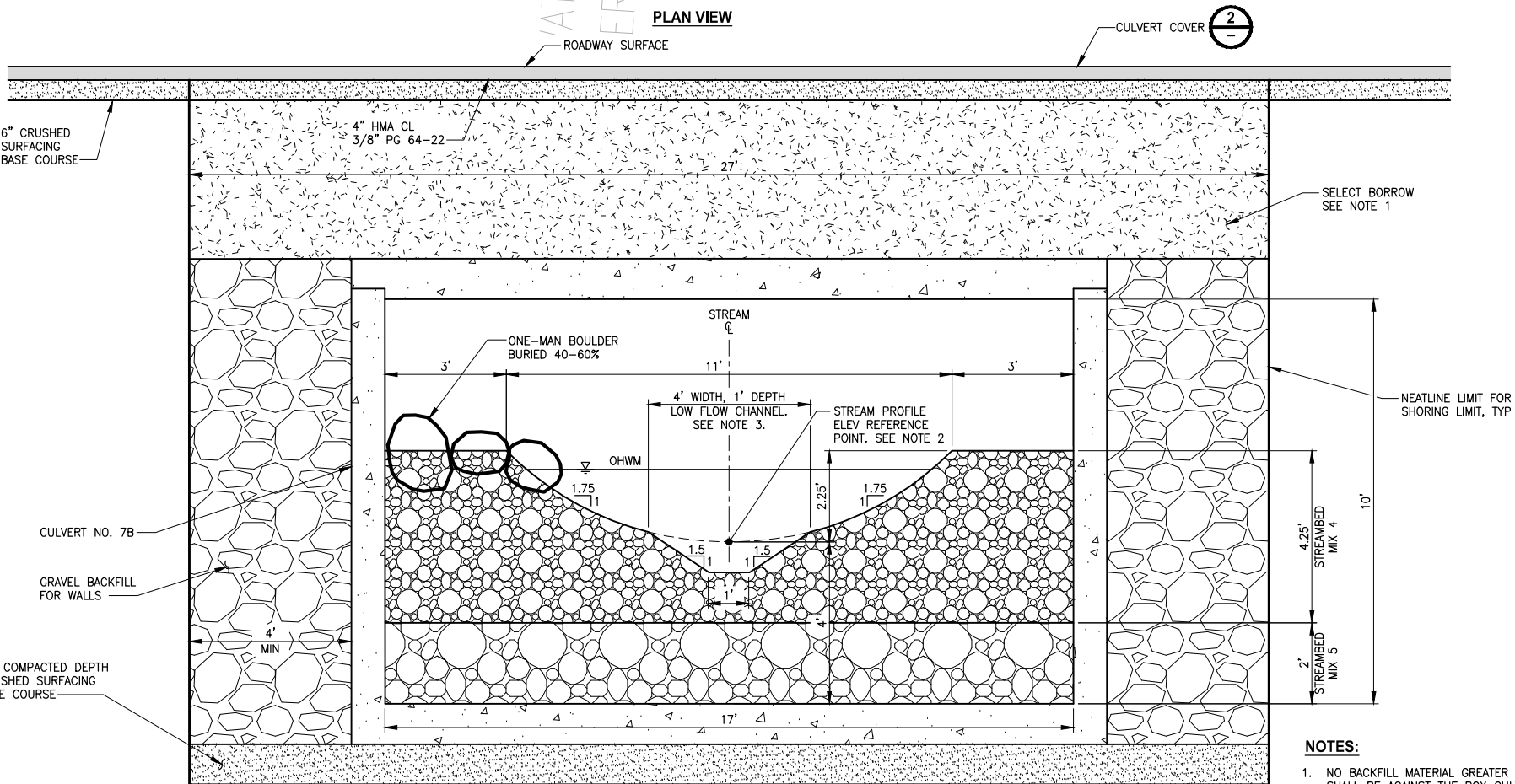
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FP1

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PLAN VIEW



SECTION A-A

GEORGE DAVIS CREEK-SHORE LANE NE
(CONTRACTOR DESIGNED BURIED STRUCTURE NO. 7B)

DETAIL

NOT TO SCALE



CONFORMED DRAWINGS

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			T. PRINCE
			APPROVED
			J. BAILEY

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FILE NAME
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PROJECT NAME

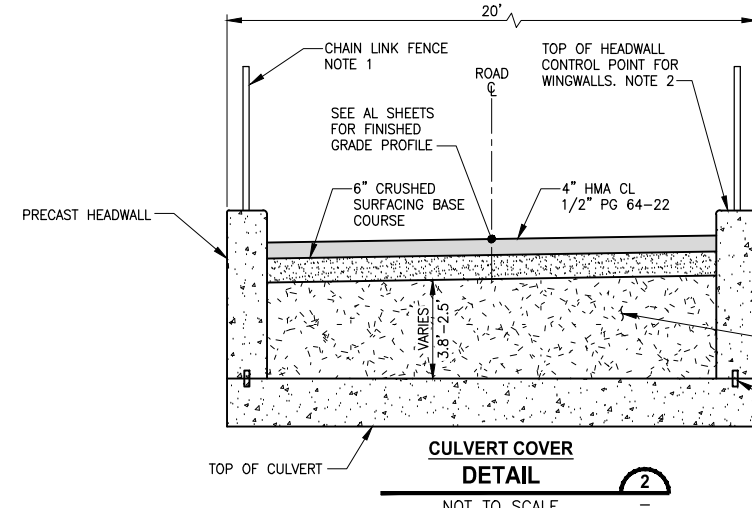
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

**FISH PASSAGE CULVERTS
SHORE LANE NE CULVERT
DETAILS**

SHEET NO.
199 OF 213

FP2

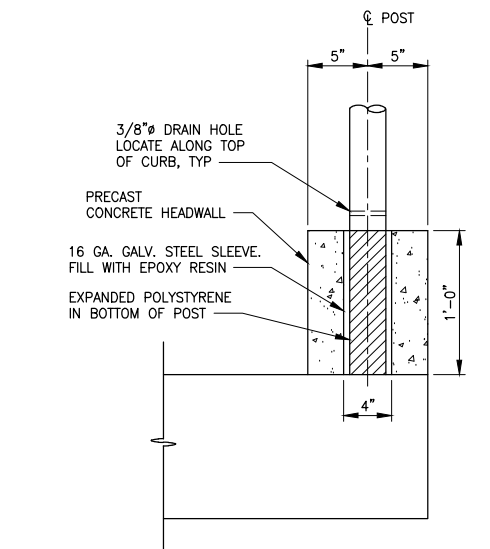


CULVERT COVER
DETAIL

NOT TO SCALE

NOTES:

- CHAIN LINK FENCE SHALL BE IN LINE WITH PRECAST HEADWALLS. IF FENCE SECTION CANNOT SPAN THE CULVERT, THEN POST SHALL BE MOUNTED TO CONCRETE HEADWALL. SEE DETAIL 3 THIS SHEET.
- WINGWALLS SHALL BE PRECAST AND PLACED TO MATCH THE TOP ELEVATION OF HEADWALLS.



CHAIN LINK FENCE HEADWALL AND WINGWALL MOUNT
DETAIL

NOT TO SCALE

GENERAL NOTES:

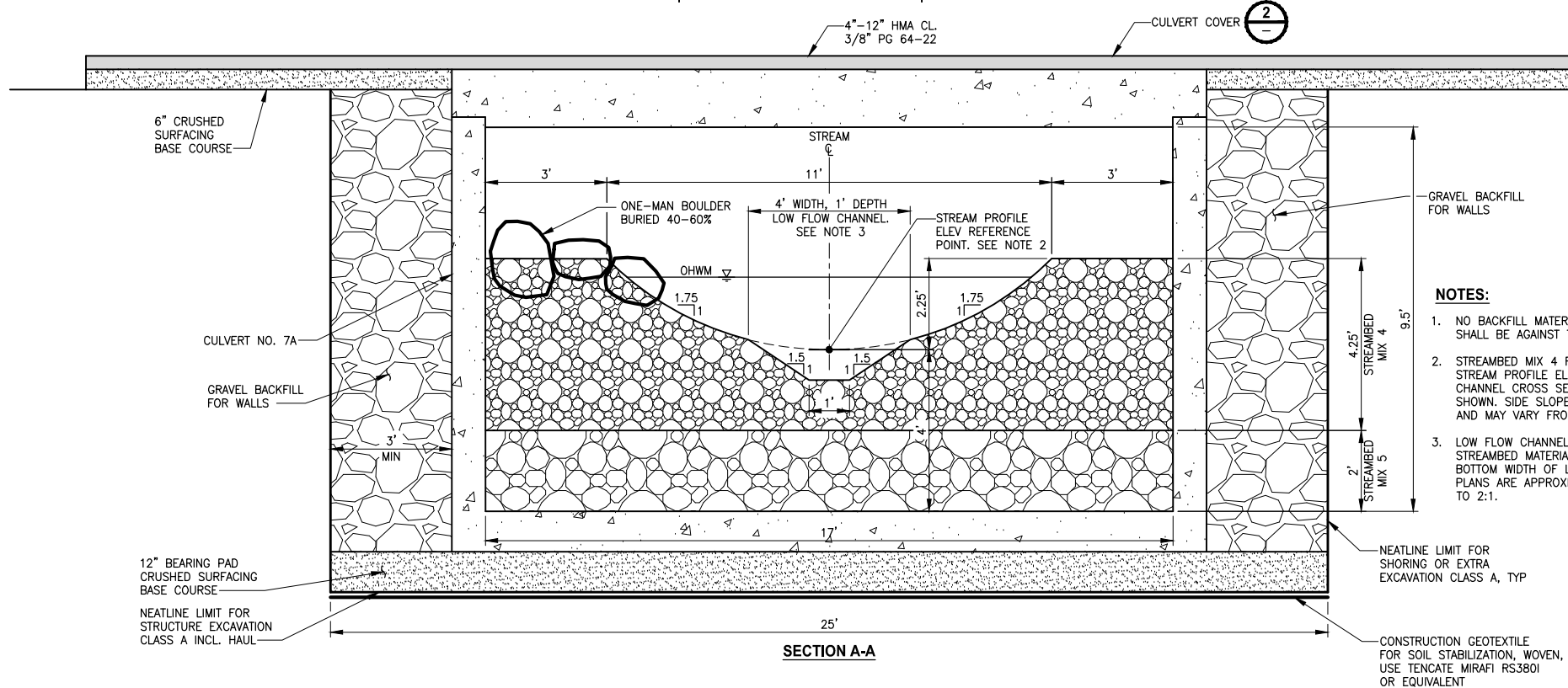
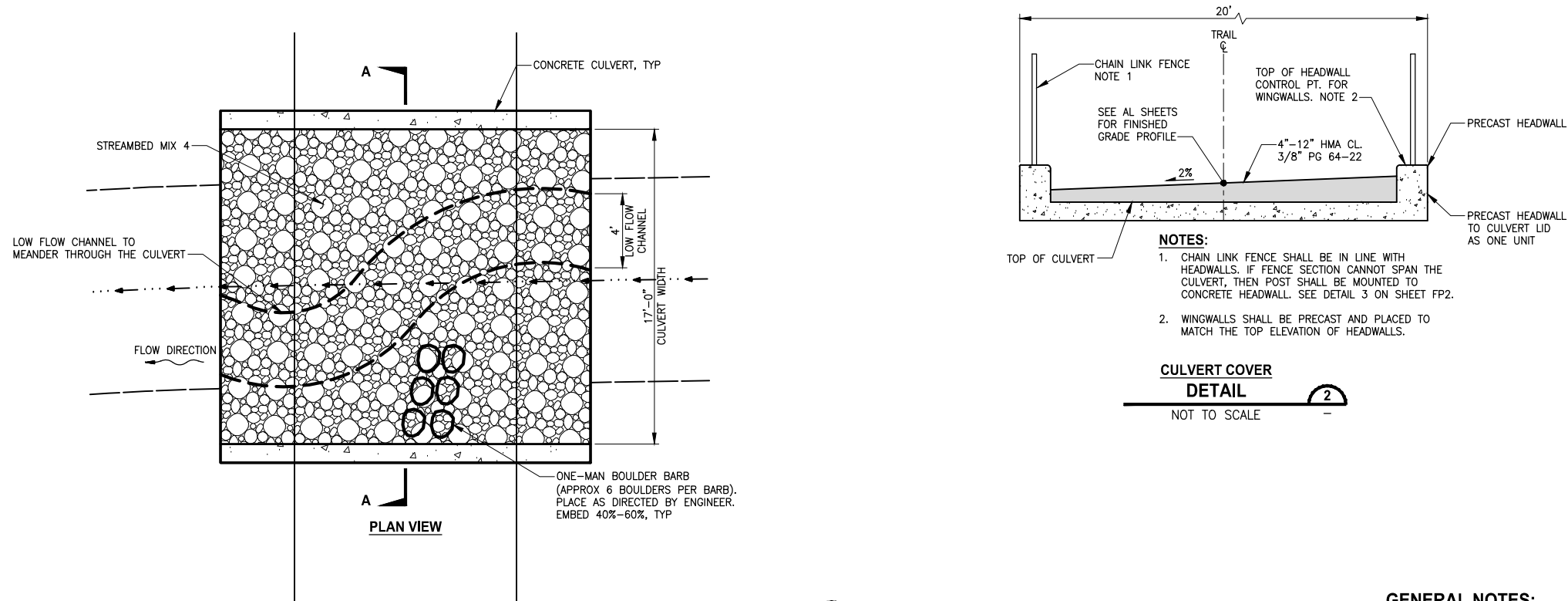
- CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL AFTER STRUCTURAL ENGINEERING APPROVAL IS OBTAINED.
- BOX CULVERTS AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JULY 1 AND SEPTEMBER 30 PER HPA APPROVAL CONDITIONS IN APPENDIX A OF THE SPECIAL PROVISIONS.
- LARGE WOODY DEBRIS FEATURES, ONE-MAN BOULDERS, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD BY THE ENGINEER.
- STREAMBED MIX 4: THREE PARTS 12" COBBLES SHALL BE MIXED THOROUGHLY WITH TWO PARTS STREAMBED SEDIMENT.
- STREAMBED MIX 5: ONE PART ONE-MAN AND ONE PART TWO-MAN STREAMBED BOULDERS SHALL BE MIXED THOROUGHLY WITH STREAMBED SEDIMENT WASHED INTO THE BOULDER MATRIX.
- STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM, NON-POROUS BED.

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**

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GEORGE DAVIS CREEK-KC TRAIL
(CONTRACTOR DESIGNED BURIED STRUCTURE NO. 7A)
DETAIL 1
NOT TO SCALE

CONFORMED DRAWINGS



PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

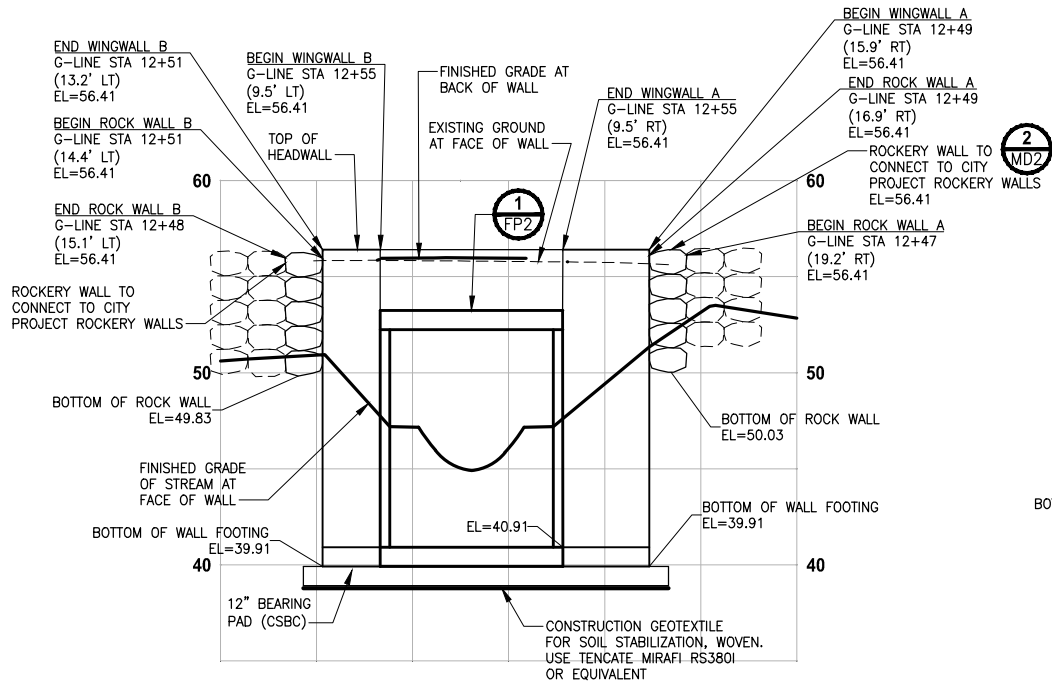
**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**
These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.
17 February 2022

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

FISH PASSAGE CULVERTS
ELST CULVERT DETAILS

SHEET NO.
200 OF 213
FP3

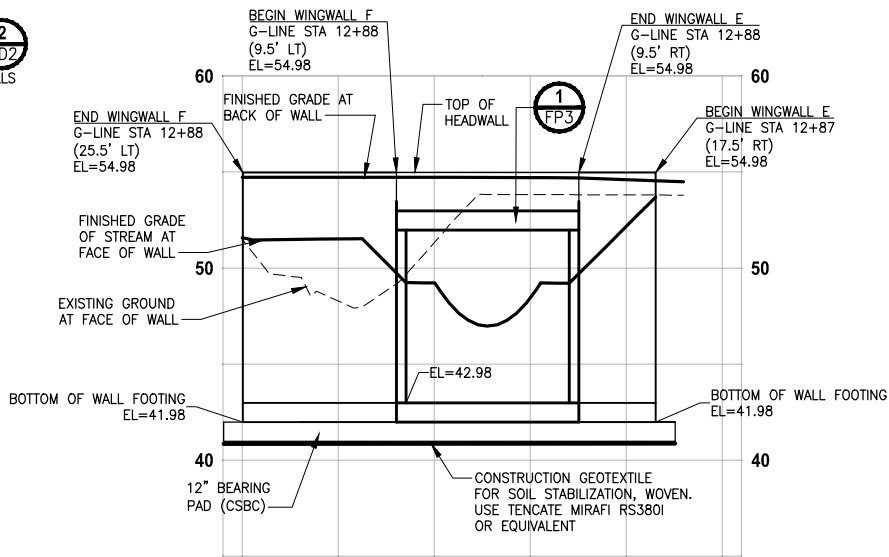
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GEORGE DAVIS CREEK
PROFILE CULVERT 7B WINGWALLS A & B

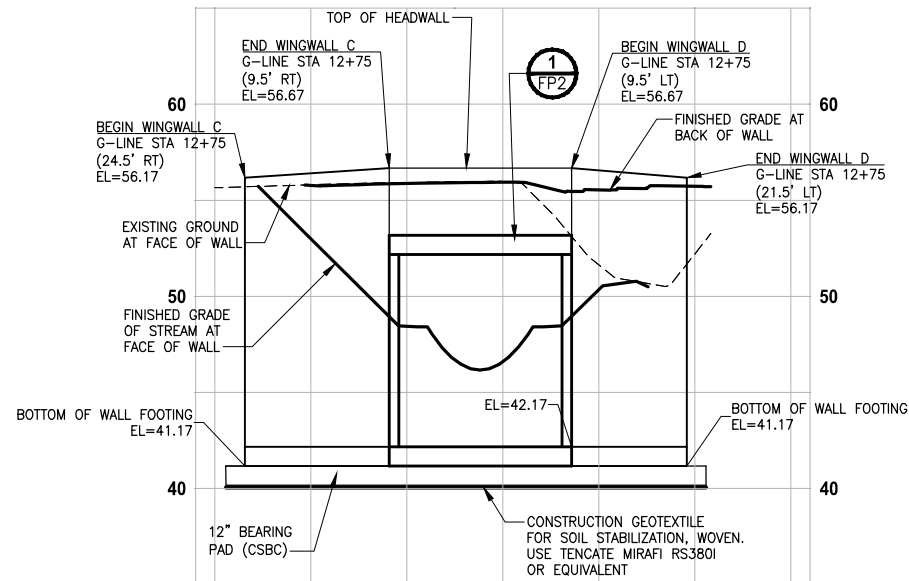
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VERT: 1"=5'

2
MD2



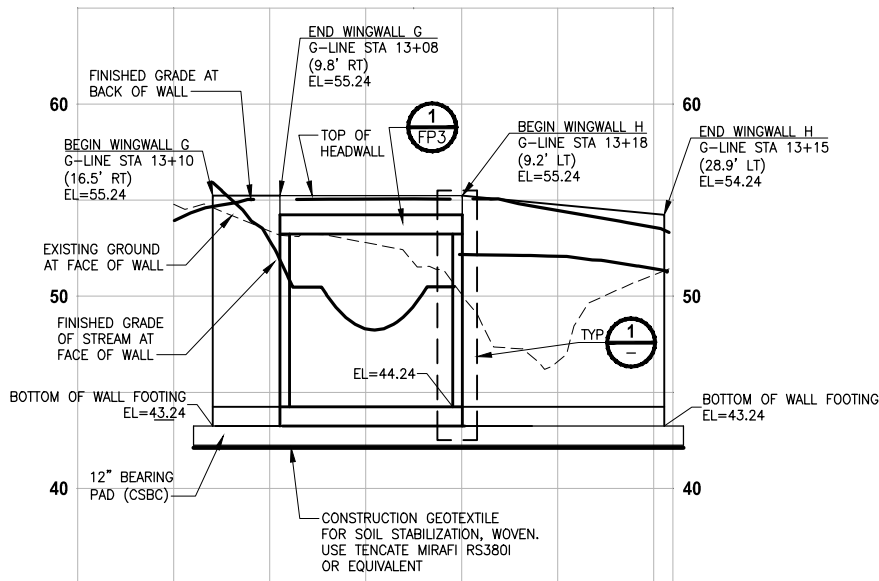
GEORGE DAVIS CREEK
PROFILE CULVERT 7A WINGWALLS E & F

HORIZ: 1"=10'
VERT: 1"=5'



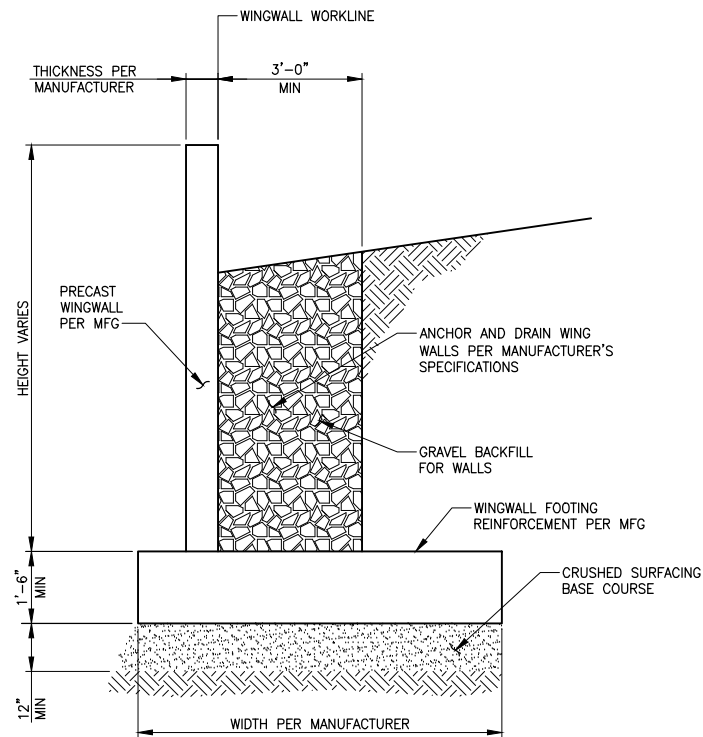
GEORGE DAVIS CREEK
PROFILE CULVERT 7B WINGWALLS C & D

HORIZ: 1"=10'
VERT: 1"=5'

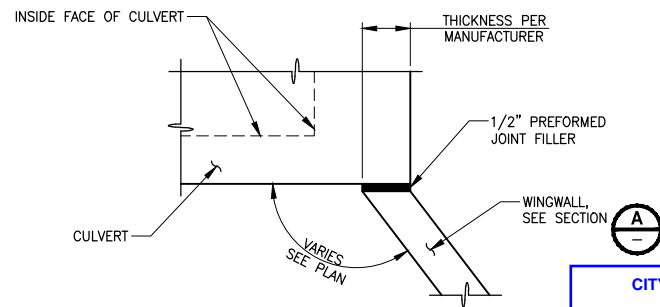


GEORGE DAVIS CREEK
PROFILE CULVERT 7A WINGWALLS G & H

HORIZ: 1"=10'
VERT: 1"=5'



WINGWALL
TYPICAL SECTION A
NOT TO SCALE



CULVERT AND WINGWALL JOINT
DETAIL
NOT TO SCALE

STRUCTURAL NOTES:

1. PRECAST WINGWALLS, HEADWALLS AND FOOTINGS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, SEE SPECIAL PROVISIONS SECTION 6-20.
2. CONCRETE FOR PRECAST UNITS AND FOOTINGS SHALL BE CLASS 4000 MIN.
3. DESIGN LOADING SHALL BE HL-93 AND DESIGN METHOD SHALL BE IN ACCORDANCE WITH THE WSDOT GEOTECHNICAL DESIGN MANUAL AND AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (LATEST EDITIONS).
4. SEE PROJECT GEOTECHNICAL REPORT FOR ALLOWABLE BEARING PRESSURES.

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

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17 February 2022

CONFORMED DRAWINGS



ONE INCH AT FULL SCALE.
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FILE NAME
BL1521075P19T03FP-01_GDD
JOB No.
554-1521-075 P19 T03
DATE
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PROJECT NAME

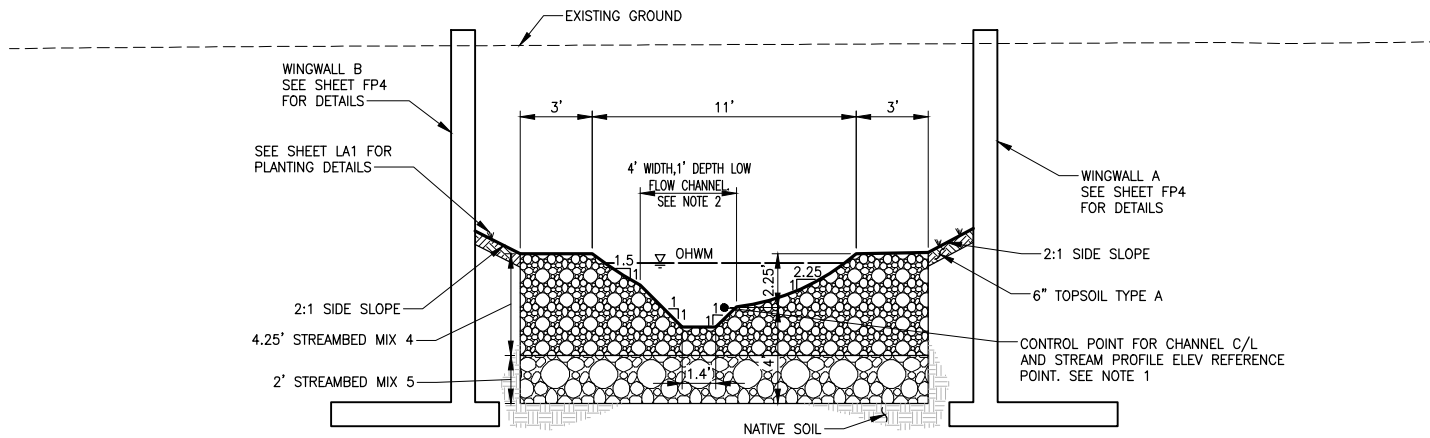
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

FISH PASSAGE CULVERTS
WINGWALL PROFILES AND DETAILS

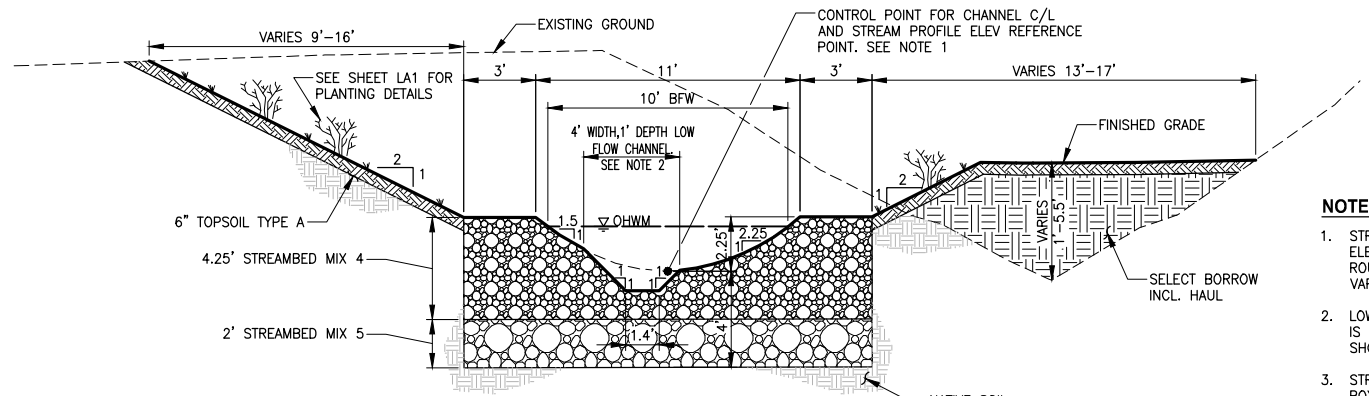
SHEET NO.
201 OF 213

FP4

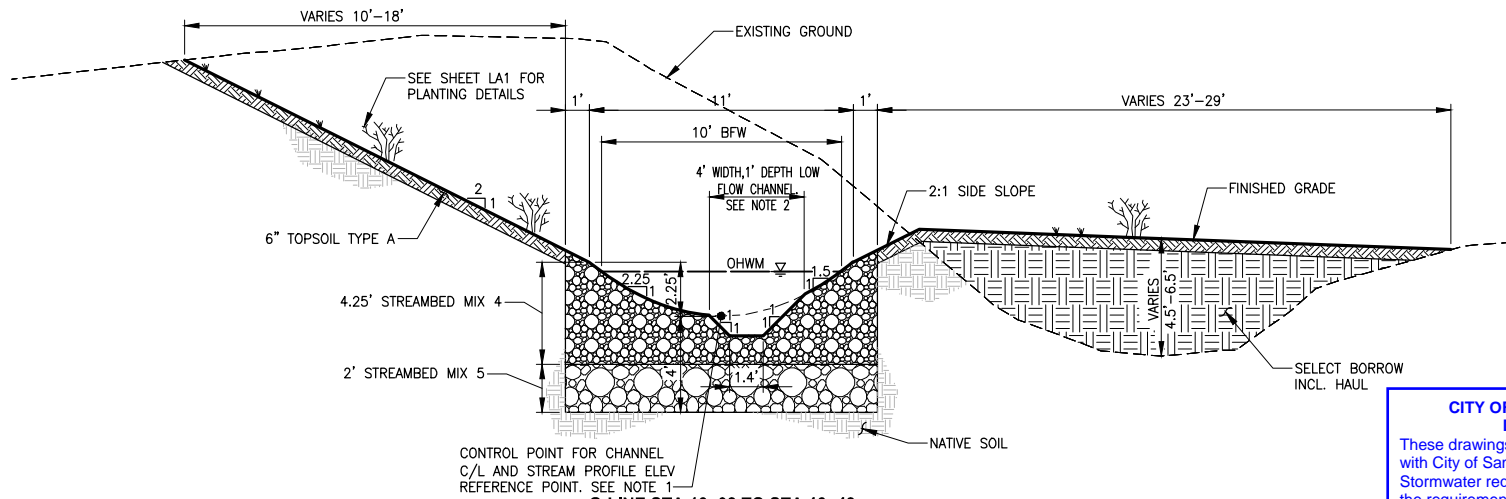
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G-LINE STA 12+48 TO STA 12+55

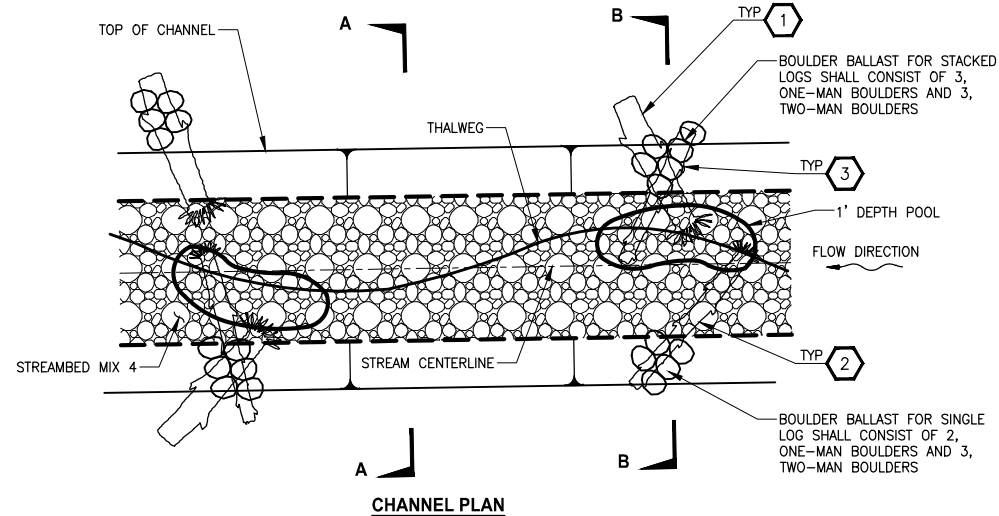


G-LINE STA 12+75 TO STA 12+88



G-LINE STA 13+08 TO STA 13+48
GEORGE DAVIS CREEK
TYPICAL SECTION A

NOT TO SCALE
SEE NOTES 3 AND 4



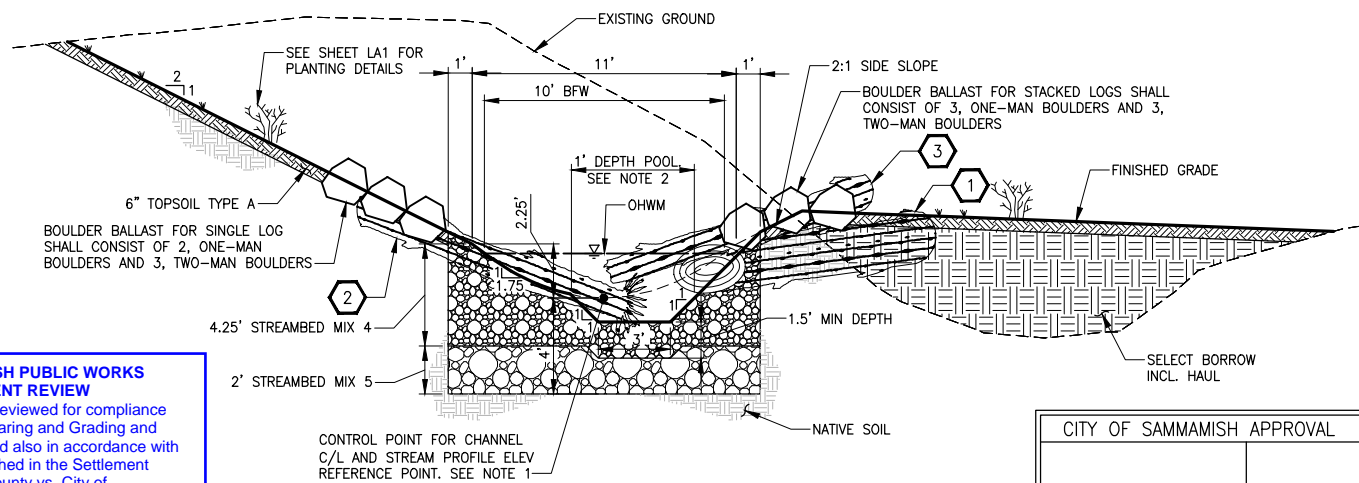
CHANNEL PLAN

NOTES:

- STREAMBED MIX 4 FINISHED GRADE SHALL MATCH STREAM PROFILE ELEVATION REFERENCE POINT. CHANNEL CROSS SECTIONS SHALL BE ROUNDED AS SHOWN. SIDE SLOPES SHOWN ARE APPROXIMATE AND MAY VARY FROM 1:1 TO 2.25:1.
- LOW FLOW CHANNEL SHALL BE EXCAVATED AFTER STREAMBED MATERIAL IS PLACED. SIDE SLOPES AND BOTTOM WIDTH OF LOW FLOW CHANNEL SHOWN IN PLANS ARE APPROXIMATE AND MAY VARY FROM 1:1 TO 2:1.
- STREAM CHANNEL CROSS SECTIONS THROUGH PRECAST CONCRETE SPLIT BOX CULVERTS ARE PROVIDED ON SHEETS FP2 AND FP3.
- CROSS SECTIONS DRAWN LOOKING DOWNSTREAM.

LOG SCHEDULE						
LOG #	LOG NAME	LOG LENGTH (FT)	LOG DIAMETER (FT)	ROOTWAD LENGTH (FT)	ROOTWAD DIAMETER (FT)	VOLUME (FT ³)
1*	LARGE LOG WITH ROOTWAD	12	2	2	3.5	37.7
2	MEDIUM LOG WITH ROOTWAD	15	1.25	2	3	18.4
3	MEDIUM LOG	12	1.25	-	-	14.7

* KEY LOG (VOLUME>35 FT³)



SECTION WITH LARGE WOODY DEBRIS
SEE NOTE 4
TYPICAL SECTION B

NOT TO SCALE

GENERAL NOTES:

- LARGE WOODY MATERIAL FEATURES, BOULDER BALLAST, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD BY ENGINEERS. SEE SPECIAL PROVISIONS SECTIONS 8-32 AND 8-33.
- STREAMBED MIX 4: THREE PARTS 12" COBBLES SHALL BE MIXED THOROUGHLY WITH TWO PARTS STREAMBED SEDIMENT. SEE SPECIAL PROVISIONS SECTIONS 8-32.
- STREAMBED MIX 5: ONE PART ONE-MAN AND ONE PART TWO-MAN STREAMBED BOULDERS SHALL BE MIXED THOROUGHLY WITH STREAMBED SEDIMENT WASHED INTO THE BOULDER MATRIX. SEE SPECIAL PROVISIONS SECTIONS 8-32.
- STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM, NON-POROUS BED.

STREAMBED BOULDER SIZING	
ROCK SIZE	APPROXIMATE SIZE
ONE-MAN	12" - 18"
TWO-MAN	18" - 28"

12" STREAMBED COBBLES GRADATION	
APPROXIMATE SIZE	% PASSING
12"	99 - 100
10"	70 - 90
5"	30 - 60
3/4"	10 MAX

STREAMBED SEDIMENT	
SIEVE SIZE	% PASSING
2 1/2"	99 - 100
2"	85 - 100
1"	50 - 82
1/2"	26 - 68
NO. 40	10 - 20
NO. 200	5 - 10

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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

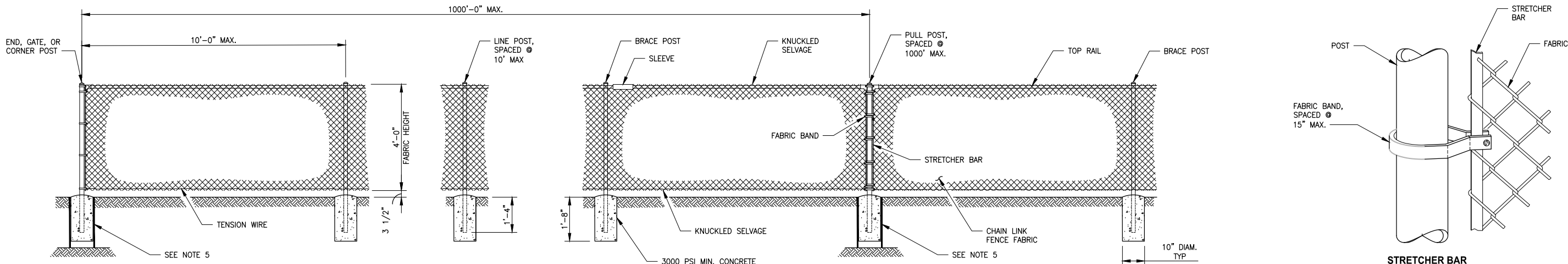
**FISH PASSAGE CULVERTS
STREAM SECTIONS AND DETAILS**

SHEET NO.
202 OF 213
FP5

REVISIONS	DATE	BY	DESIGNED
			C. BUITRAGO
			DRAWN
			B. PURGANAN
			CHECKED
			T. PRINCE
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03FP-01_GDC
JOB No.
554-1521-075 P19 T03
DATE
JUNE 2021

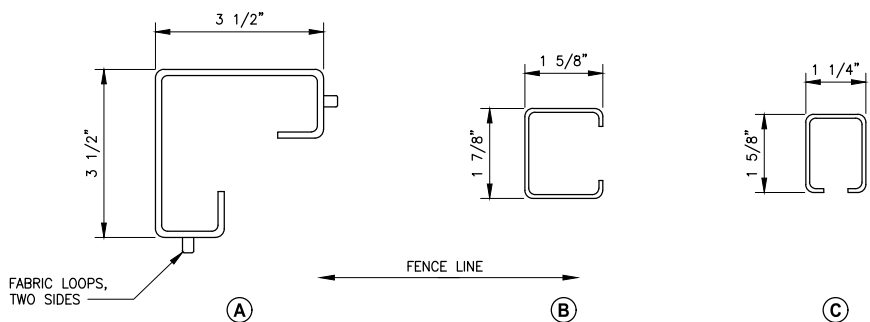
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4 FOOT CHAIN LINK FENCE (ELEVATION)

DETAIL

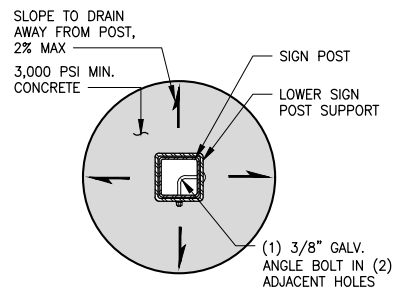
NOT TO SCALE



ISOMETRIC LOWER SIGN POST SUPPORT ASSEMBLY

DETAIL

NOT TO SCALE



PLAN VIEW SIGN SUPPORT BASE

DETAIL

NOT TO SCALE

STRETCHER BAR

DETAIL

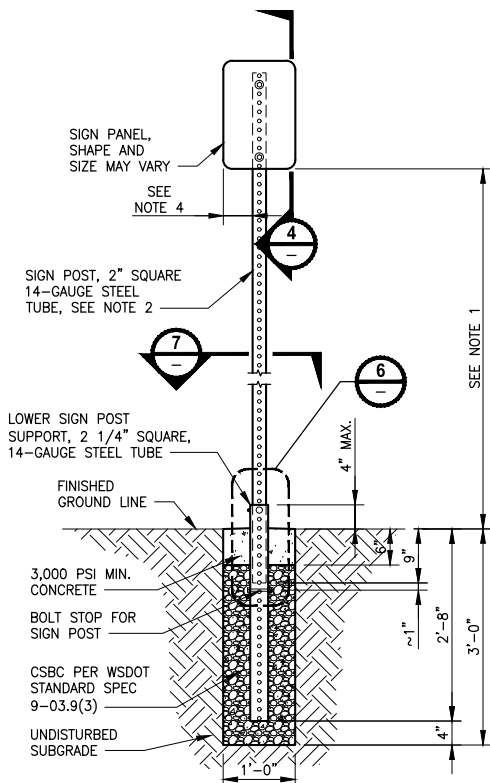
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POST AND RAIL SPECIFICATIONS

MEMBER	PIPE	CONC.	
	NOM. SIZE (SCH 40)	SECTION	WEIGHT (LB/FT)
END, CORNER, OR PULL POST	2 1/2" DIAM.	(A)	5.10
LINE OR BRACE POST	2" DIAM.	(B)	2.40
BRACE OR TOP RAIL	1 1/4" DIAM.	(C)	1.35
GATE POST	3 1/2" DIAM.		

NOTES:

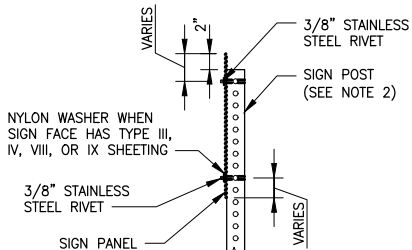
- CHAIN LINK FENCE FABRIC SHALL BE HOT-DIP GALVANIZED WITH A MINIMUM OF 0.8 OUNCE PER SQUARE FOOT OF SURFACE AREA.
- FENCING MATERIAL SHALL BE COATED WITH AN ULTRAVIOLET-SENSITIVE PLASTIC OR OTHER INERT MATERIAL AT LEAST 2 MILS IN THICKNESS. ANY PRETREATMENT OR COATING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE COLOR SHALL MATCH FEDERAL STANDARD NUMBER *** 595 B 27038 BLACK ***, OR BE AS APPROVED BY THE ENGINEER.
- TENSION WIRE SHALL BE PLACED WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
- DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.
- SONOTUBE OR EQUIVALENT SHALL ONLY BE USED IN SLOPE PROTECTION OR STEEPER SLOPED AREAS AS NOTED ON THE CS SHEETS. SONOTUBES SHALL BE INSTALLED AT EVERY OTHER POST LOCATION PER PLAN LENGTH SHOWN ON THE AL SHEETS.



ELEVATION CONCRETE SIGN SUPPORT

DETAIL

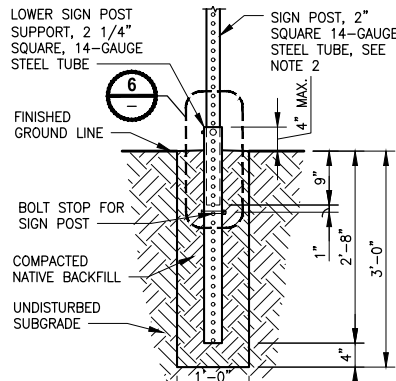
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ELEVATION SIGN PANEL ATTACHMENT

DETAIL

NOT TO SCALE

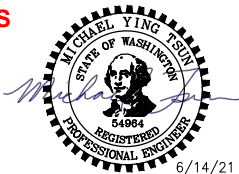


ELEVATION NATIVE BACKFILL SIGN SUPPORT

DETAIL

NOT TO SCALE

CONFORMED DRAWINGS



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PROJECT NAME

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MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
203 OF 213

MD1

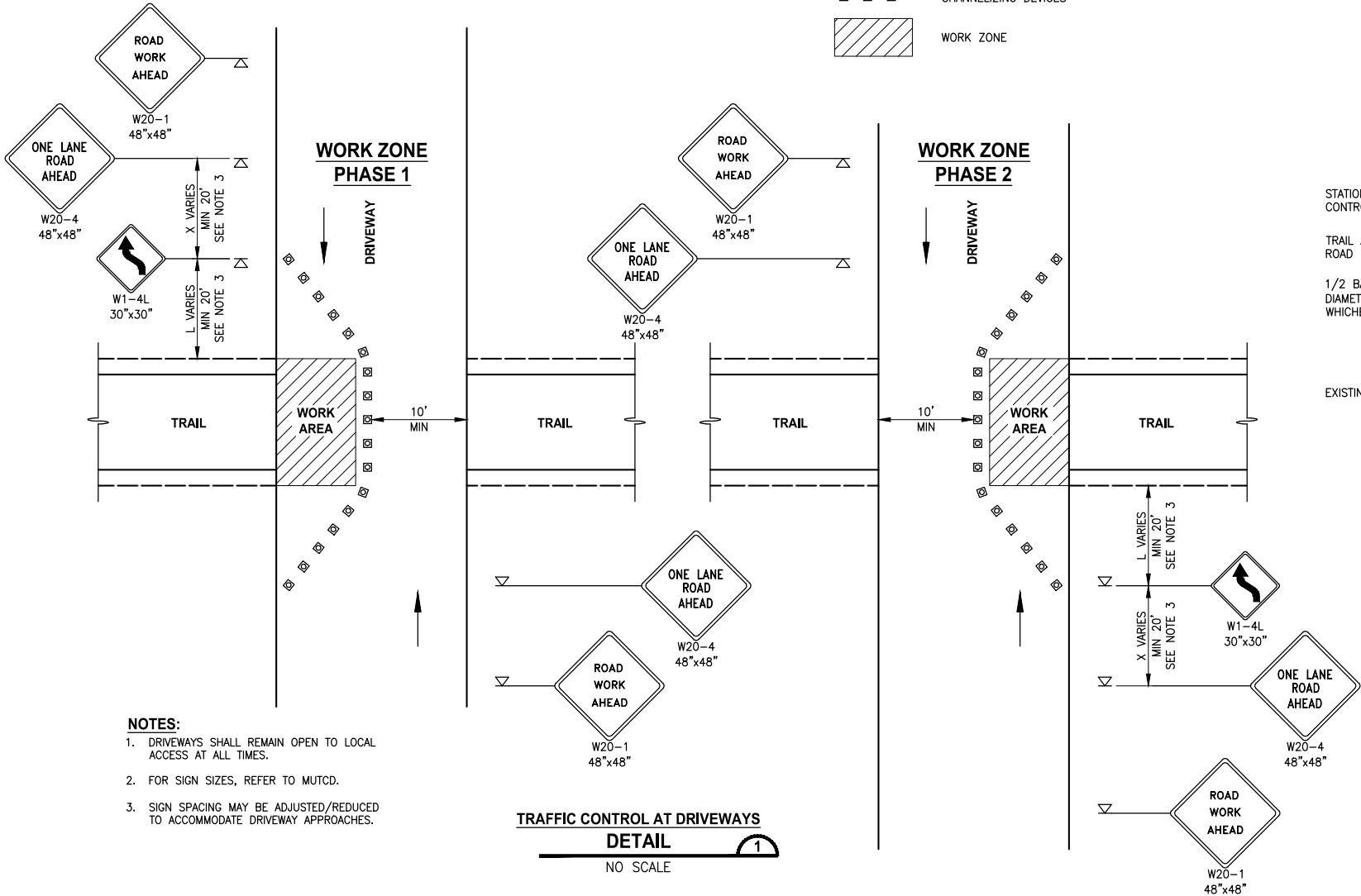
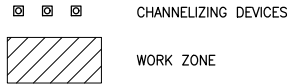
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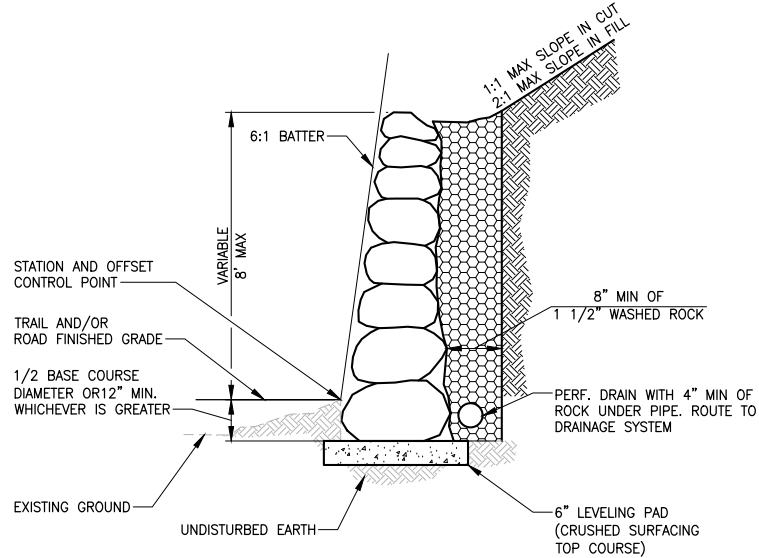
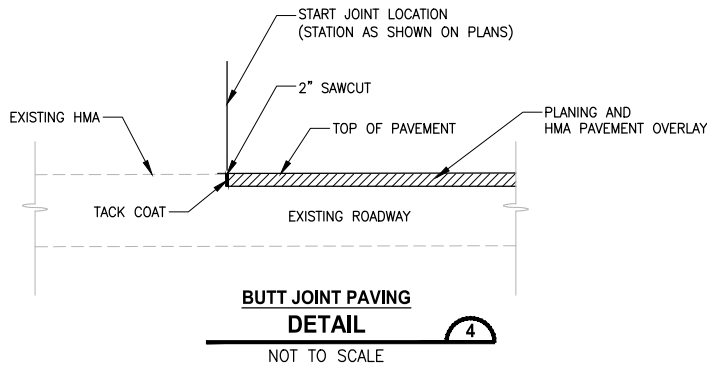
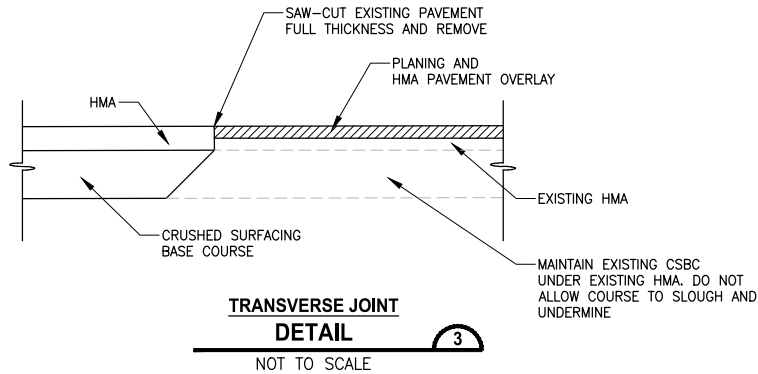
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LEGEND:

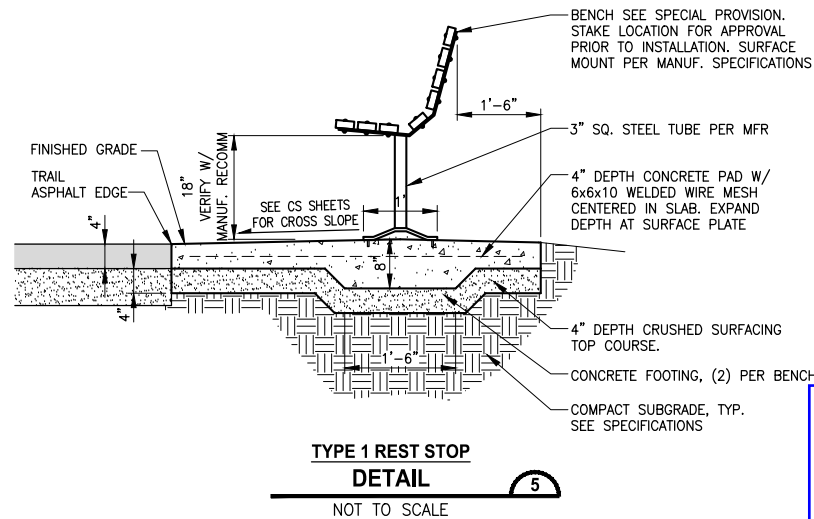
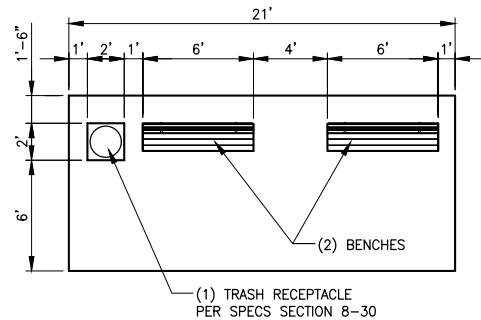


- NOTES:
1. DRIVEWAYS SHALL REMAIN OPEN TO LOCAL ACCESS AT ALL TIMES.
 2. FOR SIGN SIZES, REFER TO MUTCD.
 3. SIGN SPACING MAY BE ADJUSTED/REDUCED TO ACCOMMODATE DRIVEWAY APPROACHES.

TRAFFIC CONTROL AT DRIVEWAYS
DETAIL 1
NO SCALE



- NOTES:
1. ROCKERIES HIGHER THAN 5' SHALL BE CONSTRUCTED OF ROCKS OF GRADUATED SIZES FROM 5-MAN TO 2-MAN FROM BOTTOM TO TOP. ROCKERIES OF 5' OR LOWER SHALL BE CONSTRUCTED OF 3-MAN TO 2-MAN FROM BOTTOM TO TOP. ROCK SIZE CATEGORIES SHALL INCLUDE:
TWO-MAN ROCKS (300 TO 600 POUNDS), 13 INCHES IN LEAST DIMENSION;
THREE-MAN ROCKS (800 TO 1200 POUNDS), 16 INCHES IN LEAST DIMENSION;
FOUR-MAN ROCKS (1500 TO 2200 POUNDS), 18 INCHES IN LEAST DIMENSION;
FIVE-MAN ROCKS (2400 TO 3400 POUNDS), 24 INCHES IN LEAST DIMENSION;
 2. THE ROCKERY SHALL BE INSTALLED WITH A SMOOTH FACE.
 3. THE LONG DIMENSION OF THE ROCKS SHALL EXTEND INTO THE EARTH TO PROVIDE MAXIMUM STABILITY.
 4. THE ROCK SHALL BE PLACED SO AS TO LOCK INTO TWO ROCKS IN THE LOWER TIER.
 5. CALL FOR INSPECTION PRIOR TO BASE COURSE BEING PLACED (FOR VERIFICATION OF ROCKERY HEIGHT, FOUNDATION MATERIAL AND ROCK SIZE).



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PROJECT NAME

EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
204 OF 213

MD2

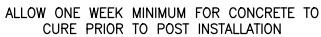
REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

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IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03MD-01_GD

JOB NO.
554-1521-075 P19 T03

DATE
JUNE 2021



REMOVABLE BOLLARD (ELEVATION)
DETAIL



CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

NOTES:

1. REMOVABLE BOLLARD ASSEMBLY AND BASE SLEEVE ASSEMBLY PARTS ARE DESIGNED, MANUFACTURED AND PROVIDED BY KING COUNTY PARKS OPERATIONS.
2. PVC DRAIN PIPES ARE TO BE PROVIDED BY THE CONTRACTOR. INSTALLATION OF ALL PARTS SHALL BE PERFORMED BY THE CONTRACTOR.
3. GRAVEL BACKFILL FOR DRAINS SHALL CONFORM TO WSDOT STD. SPEC. 9-03.12(4).
4. CONCRETE SHALL ACHIEVE A 28-DAY STRENGTH OF 3000 PSI MINIMUM.
5. ALL WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4. WELDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS QUALIFIED FOR WELDS USING THE APPROVED ELECTRODES.

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**

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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

MISCELLANEOUS DETAILS

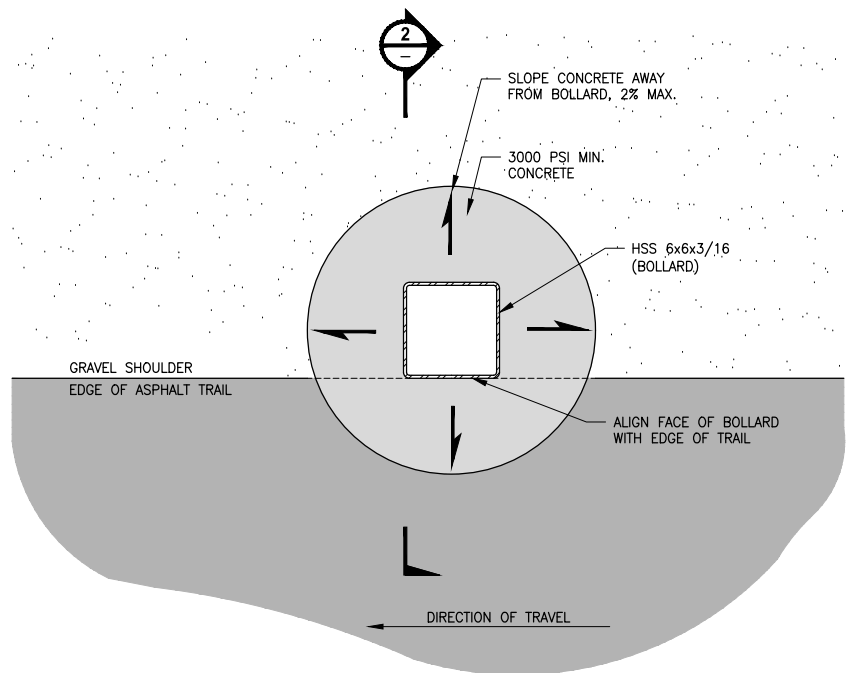
SHEET NO.
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MD3

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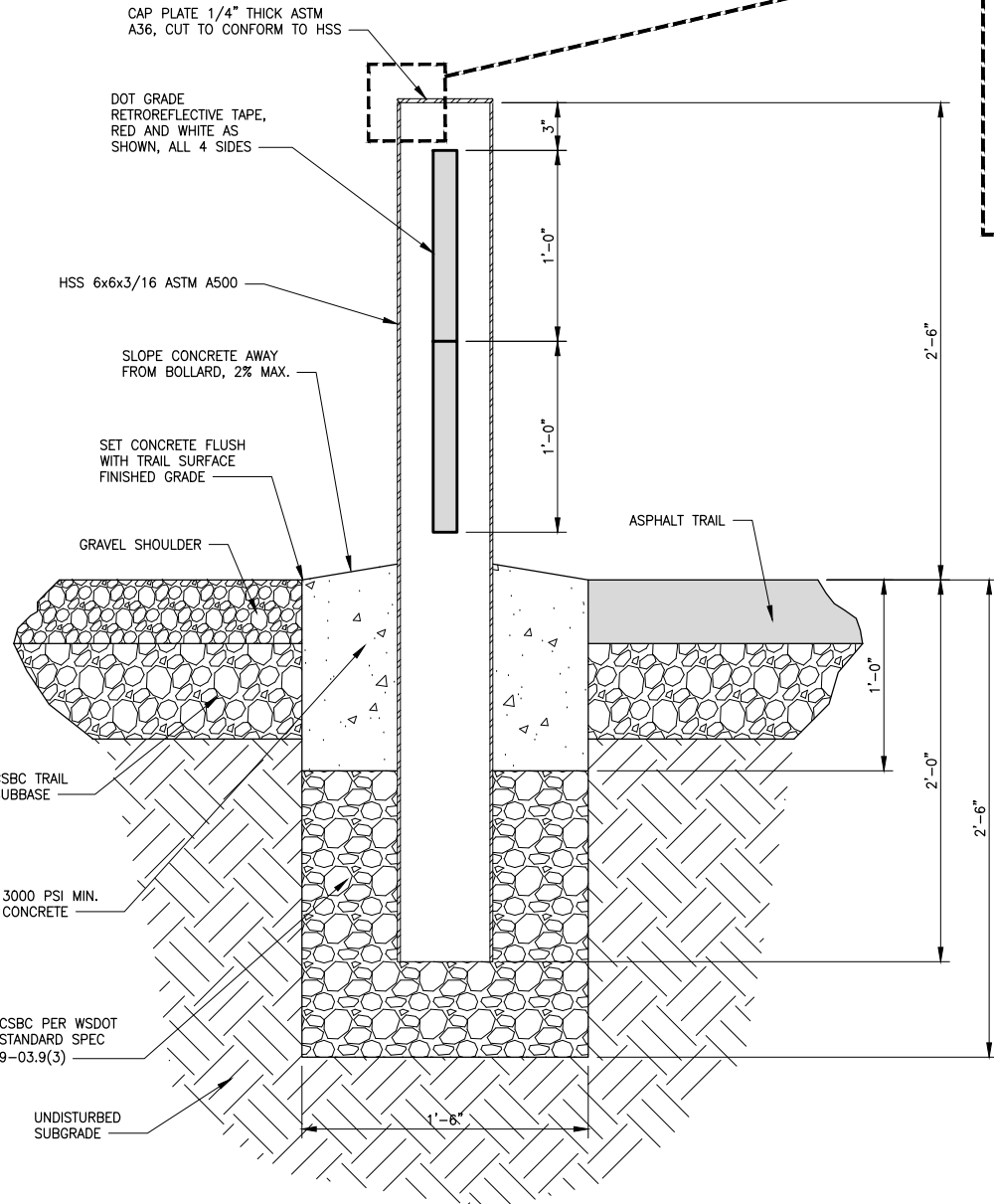
NOTES:

- BOLLARD ASSEMBLY SHALL BE POWDER COATED WHITE AFTER WELDING.
- APPLY RETROREFLECTIVE TAPE PER PLAN AFTER POWDER COATING.
- CONCRETE SHALL ACHIEVE A 28-DAY STRENGTH OF 3,000 PSI MINIMUM.
- ALL WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4. WLDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS QUALIFIED FOR WELDS USING THE APPROVED ELECTRODES.



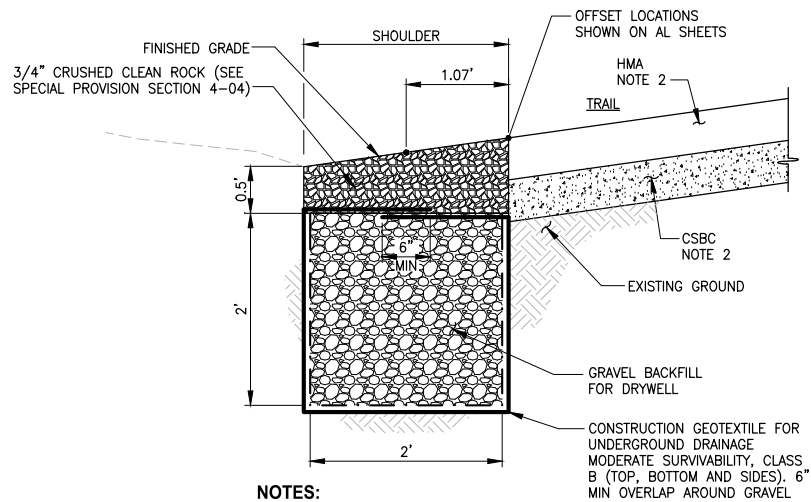
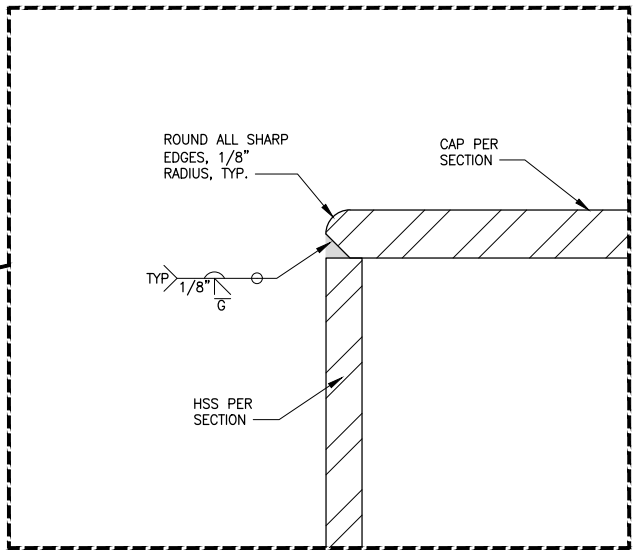
FIXED STEEL BOLLARD (PLAN VIEW)
DETAIL

NOT TO SCALE



FIXED STEEL BOLLARD (ELEVATION)
DETAIL

NOT TO SCALE



NOTES:

- PROTECT INFILTRATION TRENCH AREAS. SEE SPECIAL PROVISIONS FOR DETAILS.
- SEE SHEET CS1 FOR TRAIL HMA AND CRUSHED ROCK BASE THICKNESS.

INFILTRATION TRENCH
DETAIL

NOT TO SCALE

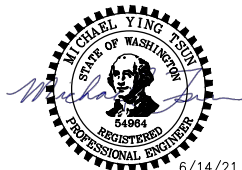
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CITY OF SAMMAMISH APPROVAL

City Engineer	Date
Community Development	Date

CONFORMED DRAWINGS



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PROJECT NAME

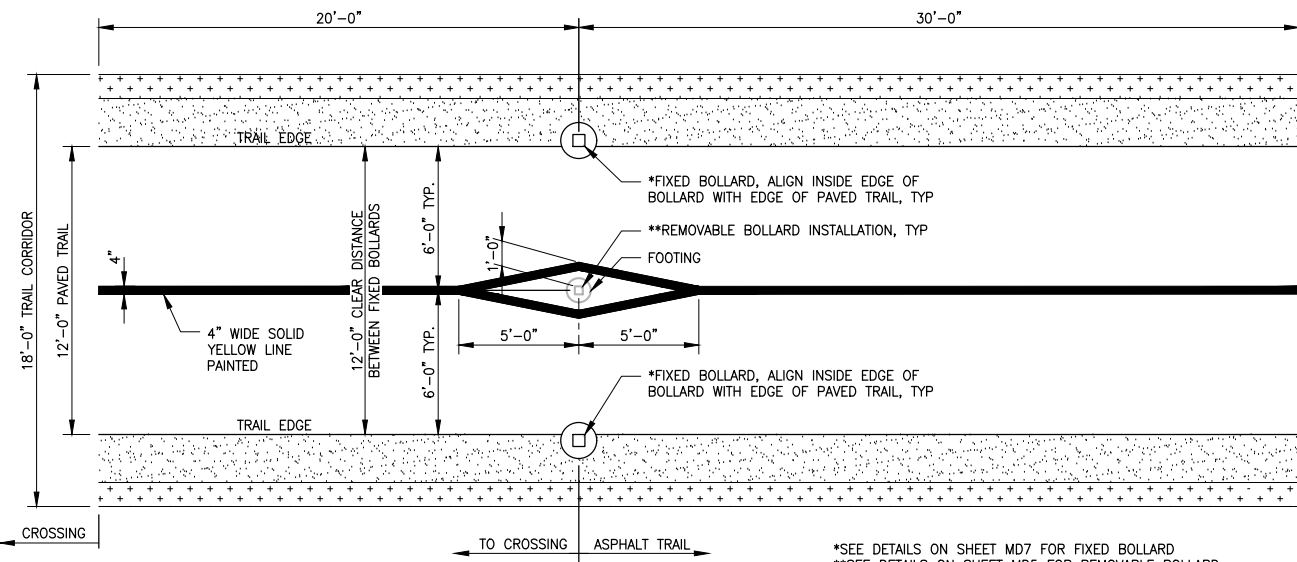
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

MISCELLANEOUS DETAILS

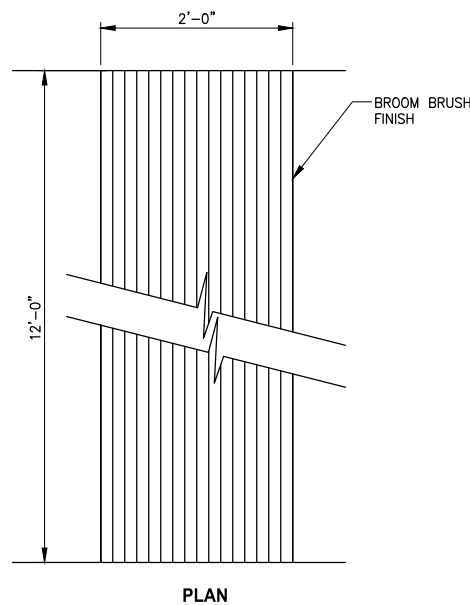
SHEET NO.
206 OF 213

MD4

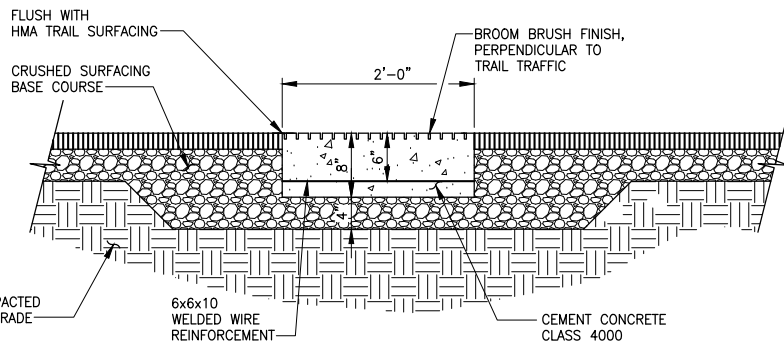
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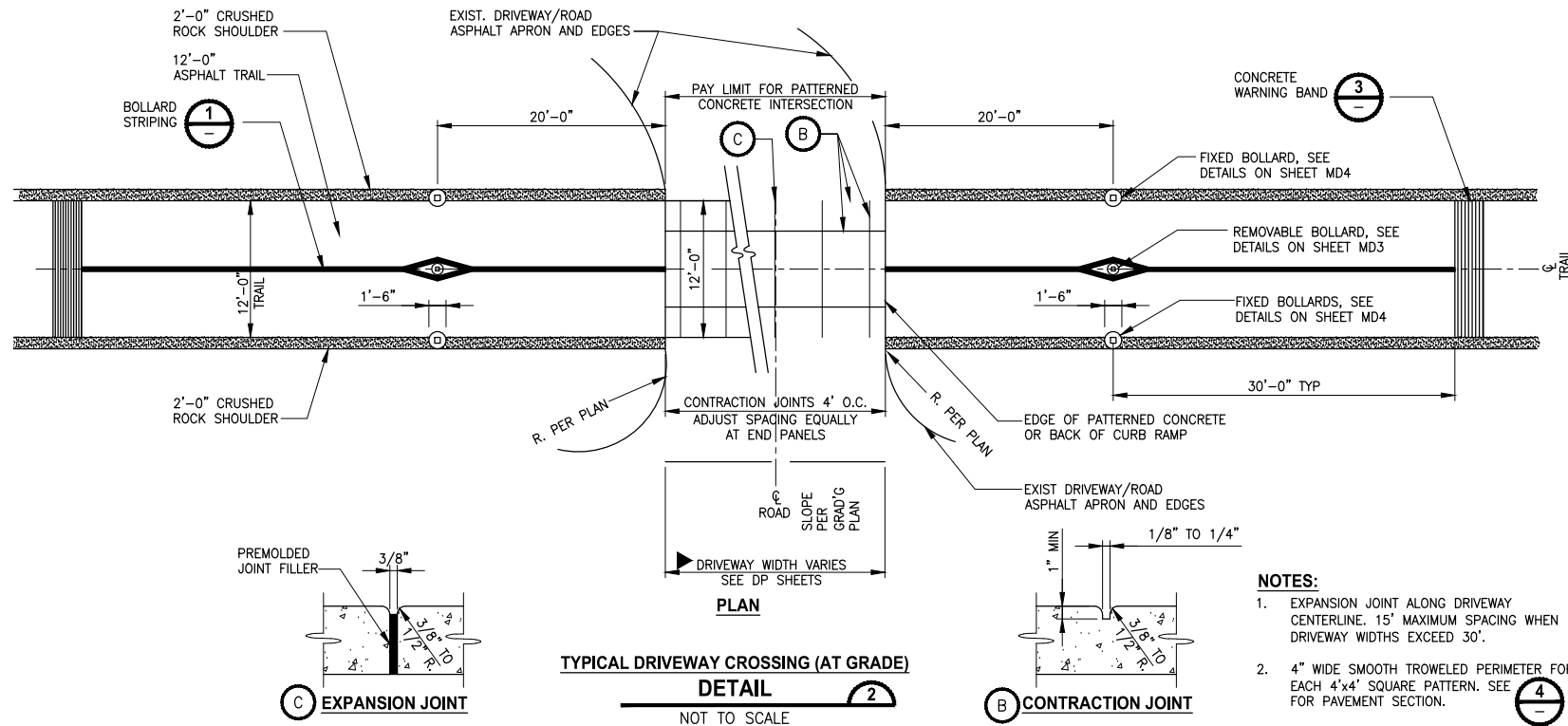
BOLLARD LAYOUT AND STRIPING (PLAN)
DETAIL 1
NOT TO SCALE



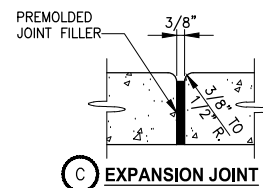
CONCRETE WARNING BAND
DETAIL 3
NOT TO SCALE



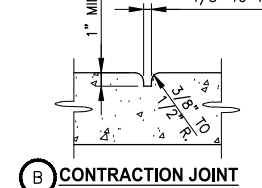
SECTION



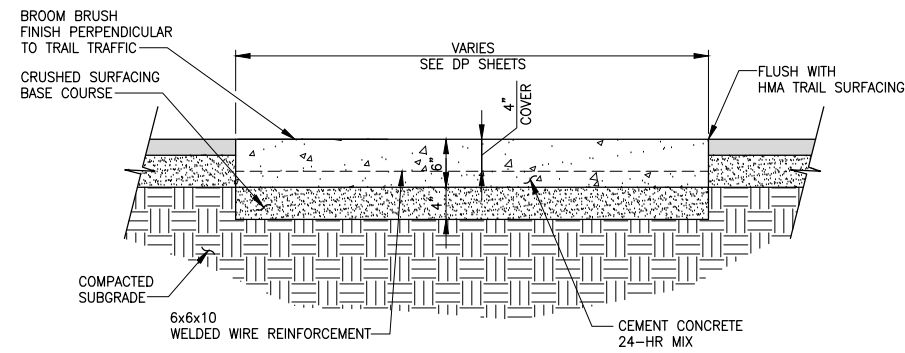
TYPICAL DRIVEWAY CROSSING (AT GRADE)
DETAIL 2
NOT TO SCALE



EXPANSION JOINT



CONTRACTION JOINT



PATTERNED CONCRETE DRIVEWAY SECTION
DETAIL 4
NOT TO SCALE

CONFORMED DRAWINGS



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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

MISCELLANEOUS DETAILS

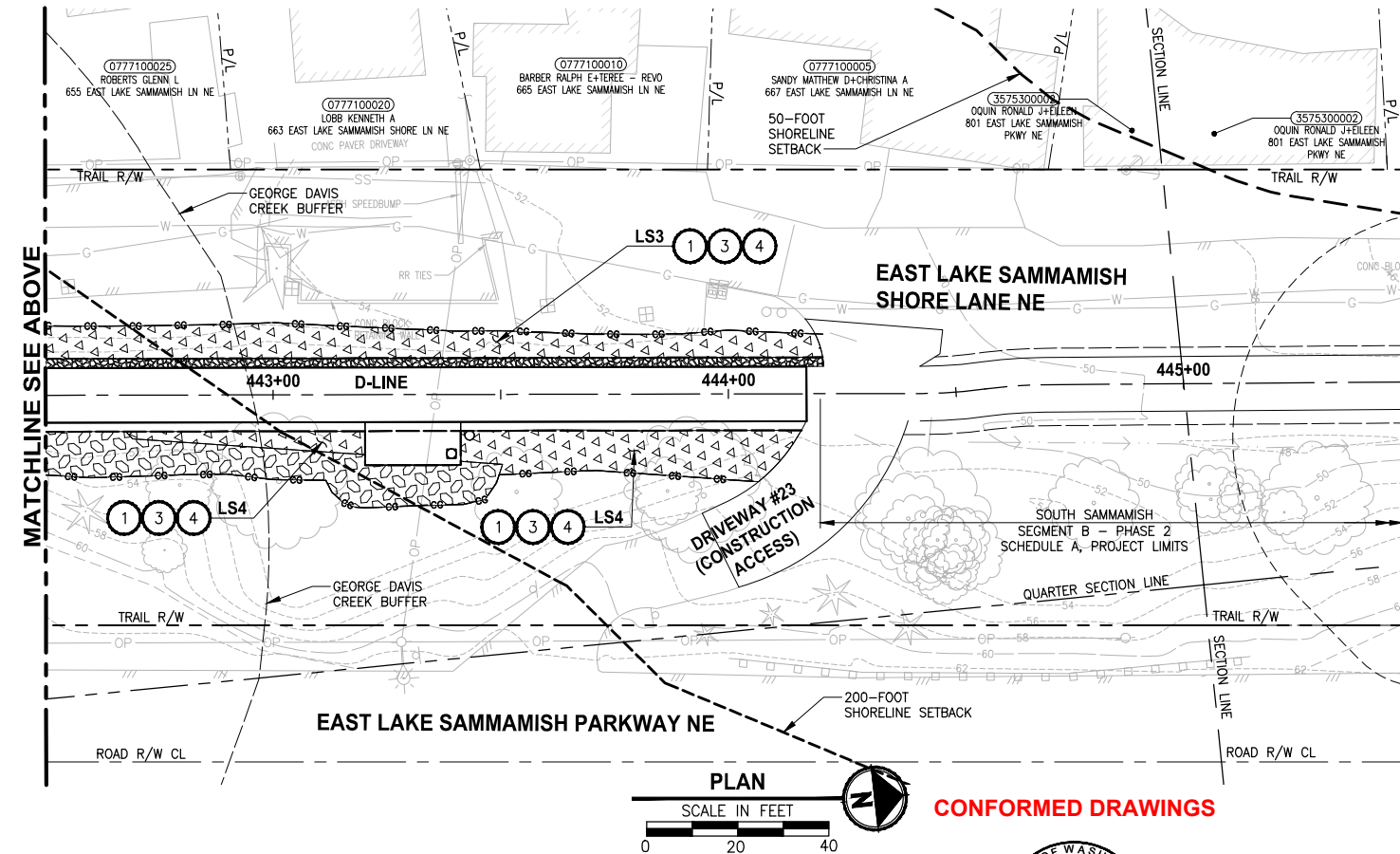
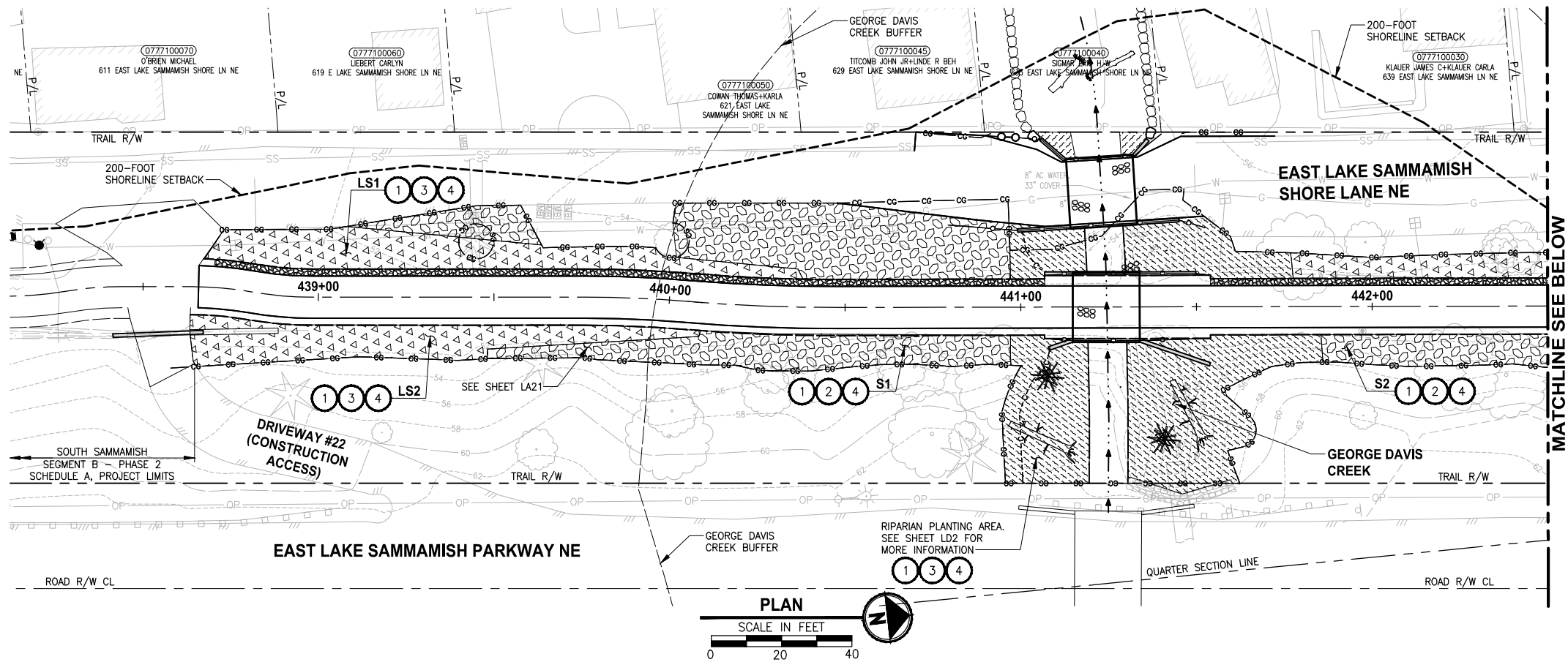
SHEET NO.
207 OF 213
MD5

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**
These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.
17 February 2022

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03MD-01_GD
JOB No.
554-1521-075 P19 T03
DATE
JUNE 2021

PATH: U:\P50\Projects\Clients\1521-075-ELST\99\Sub\CAD\Phase 19\T03 Clr\DWG-GDC Phase2\ PLOTTED BY: purgabut DATE: Sunday, June 13, 2021 4:48:45 PM LAYOUT: LA1



LANDSCAPE CONSTRUCTION NOTES:

1. SOIL AMENDMENT. PLACE 3" SOIL AMENDMENT AND TILL INTO SOIL TO A DEPTH OF 10" THROUGHOUT ENTIRE PLANTING AREA. SEE DETAIL 6 ON SHEET LD1.
2. TOPSOIL A. PLACE 12" LAYER TOPSOIL OVER THE ENTIRE SURFACE OF PLANTING AREA.
3. TOPSOIL A. PLACE 6" LAYER TOPSOIL OVER THE ENTIRE SURFACE OF PLANTING AREA.
4. WOOD CHIP MULCH. PLACE 3" LAYER WOOD CHIP MULCH OVER THE ENTIRE SURFACE OF THE AREA PLANTED.

GENERAL NOTES:

1. SEE SHEETS LD1 FOR ADDITIONAL PLANTING NOTES, DETAILS AND REQUIREMENTS. SEE SHEETS LD2 AND LD3 FOR MITIGATION AREA REQUIREMENTS.
2. CONTRACTOR SHALL SETBACK PLANTINGS FROM OTHER OBJECTS AS PROVIDED IN THE PLANT MATERIAL SETBACK CHART ON SHEET LD1.
3. PLACE 4" TOPSOIL AND SEED ALL DISTURBED AREAS NOT OTHERWISE DESIGNATED FOR PLANTING AND OUTSIDE OF WETLANDS WITH WILDFLOWER SEED MIX. WETLAND AREAS WHICH ARE TEMPORARY DISTURBED SHALL BE RESTORED WITH WET NATIVE SEED OR AS DIRECTED BY OWNERS REPRESENTATIVE.

LEGEND:

- LOW SHRUB PLANTING AREA
- SHRUB PLANTING AREA
- RIPARIAN PLANTING AREA
- HABITAT BRUSH PILE
- HABITAT LOG

QUANTITY TAB -FOR SHEET LA1-

	QTY BY AREA							
	LS1	LS2	LS3	LS4	S1	S2	S3	
AREA SF	1287	1146	1571	850	1126	2097	1388	
Trees								
BIG LEAF MAPLE	0	0	0	0	0	0	0	
DOUGLAS FIR	0	0	0	0	0	0	0	
PACIFIC WILLOW	0	0	0	0	0	0	0	
WESTERN RED CEDAR	0	0	0	0	0	0	0	
JAPANESE FLOWERING CHERRY	0	0	0	0	0	0	3	
THUJA PLICATA 'EXCELSA'	0	0	0	0	0	6	0	
Medium and Large Shrubs								
VINE MAPLE	0	0	0	0	5	8	6	
WESTERN SERVICEBERRY	0	0	0	0	6	8	8	
RED-TWIG DOGWOOD	0	0	0	0	0	0	0	
WESTERN HAZEL	0	0	0	0	0	0	0	
BLACK TWINBERRY	0	0	0	0	0	0	0	
TALL OREGON GRAPE	0	0	0	0	5	10	6	
OSO BERRY	0	0	0	0	0	0	0	
PACIFIC NINEBARK	0	0	0	0	5	8	6	
RED FLOWERING CURRANT	0	0	0	0	5	8	6	
SITKA WILLOW	0	0	0	0	0	0	0	
SNOWBERRY	0	0	0	0	6	10	8	
Low Plants								
SALAL	48	42	58	31	21	39	19	
MAHONIA REPENS	71	64	87	55	42	77	38	
SWORD FERN	48	42	58	39	21	39	19	
KELSEY DWARF DOGWOOD	24	21	29	16	0	0	0	
DAYLILY	24	21	29	8	0	0	0	
VBURNUM DAMDII	24	11	29	8	0	0	0	
Other Items								
SOIL AMENDMENT - ACRES	0.03	0.026	0.036	0.02	0.026	0.048	0.032	
TOPSOIL TYPE A - 6" DEPTH - CY	24	21	29	16	21	39	26	
WOOD CHIP MULCH - CY	12	11	15	8	10	19	13	
HABITAT BRUSH PILE - EACH	0	0	0	0	0	0	0	

CITY OF SAMMAMISH APPROVAL

City Engineer	Date
Community Development	Date

REVISIONS	DATE	BY	DESIGNED
			J. SWENSON
			B. PURGANAN
			Y. HO
			J. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL1521075P19T03LA-01_GDC

JOB No.
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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

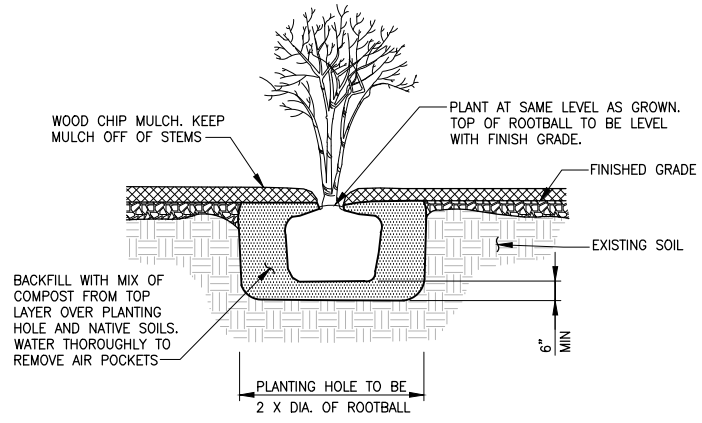
SAMMAMISH, WA

LANDSCAPE PLAN

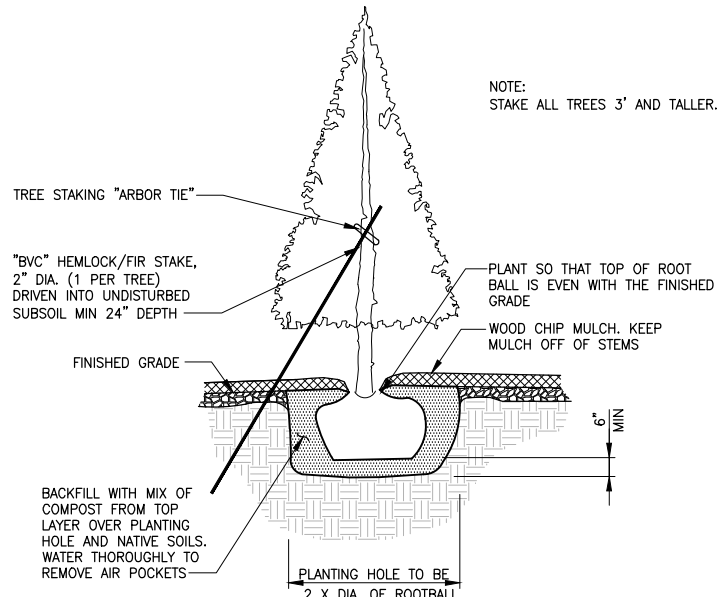
SHEET NO.
208 OF 213

LA1

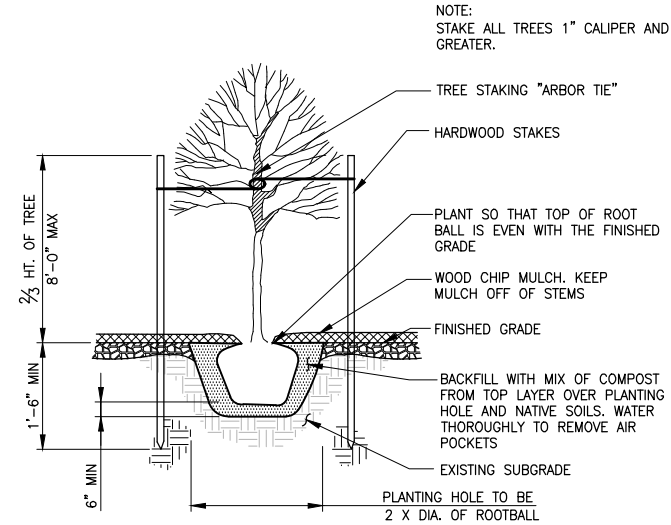
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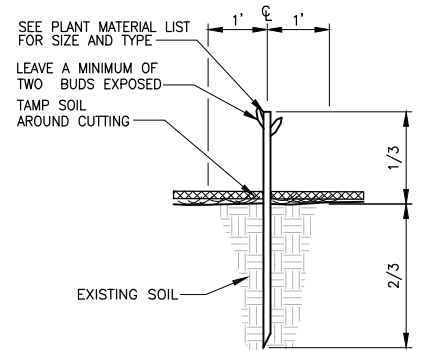
SHRUB AND SMALL TREE PLANTING
DETAIL
NO SCALE



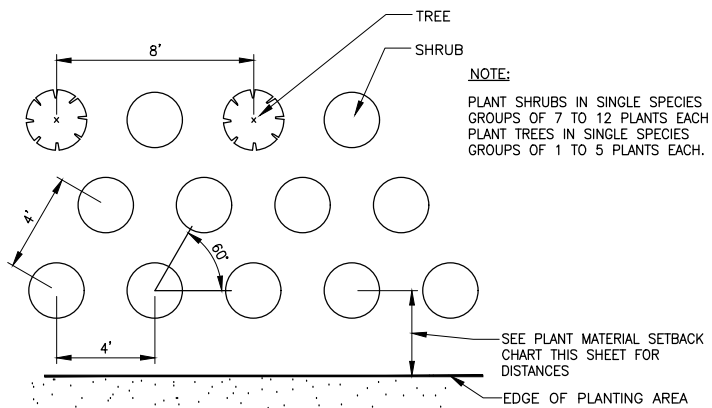
CONIFEROUS TREE PLANTING
DETAIL
NO SCALE



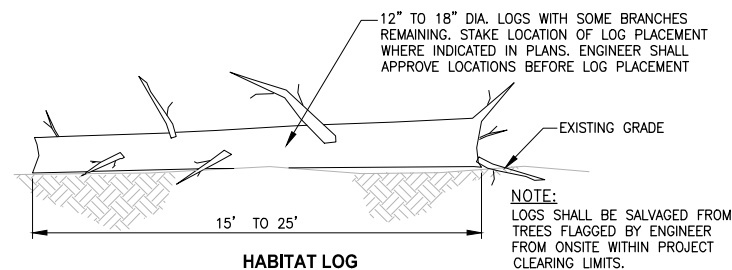
DECIDUOUS TREE PLANTING
DETAIL
NO SCALE



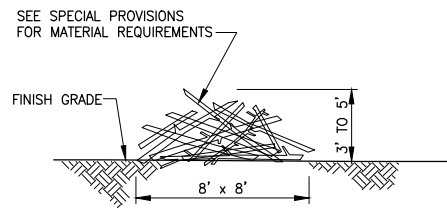
LIVE STAKE INSTALLATION
DETAIL
NO SCALE



TYPICAL TREE AND SHRUB SPACING
DETAIL
NO SCALE



HABITAT LOG
DETAIL
NO SCALE

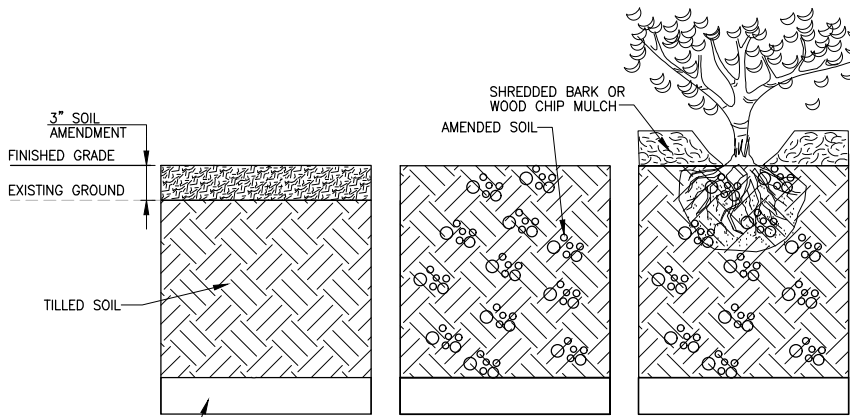


HABITAT BRUSH PILE
DETAIL
NO SCALE

PLANT MATERIAL SETBACK CHART

	GUARDRAIL BARRIER	EDGE OF ROADWAY	PATHS, TRAILS	WALL	FENCE	SIGNS	EXISTING TREE, TRUNK	EXISTING VEGETATION MASS
EVERGREEN TREE	15'	15'	15'	8'	8'	15'	10'	-
ORNAMENTAL/NATIVE DECIDUOUS TREE	6'	6'	15'	8'	8'	15'	10'	-
MEDIUM AND LARGE SHRUBS - GREATER THAN 3' TALL	5'	5'	10'	3'	3'	6'	5'	5'
SMALL SHRUB - LESS THAN 3' TALL	3'	5'	3'	2'	3'	2'	5'	5'

TYPICAL MINIMUM DISTANCE SETBACKS ARE TO THE CENTER STEM OR TRUNK OF PLANT MATERIAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER DURING LAYOUT AND STAKING OF PLANT LOCATIONS.



PLANTING AREA SOIL AMENDMENT-
SEQUENCE OF WORK
DETAIL
NO SCALE

- STEP 1**
TILL, DISC OR RIP SOIL IN PLANTING AREAS TO 10" DEPTH. PLACE 3" OF SOIL AMENDMENT OVER SOIL SURFACE.
- STEP 2**
TILL SOIL AMENDMENT INTO TOP 10" OF ENTIRE PLANTING ZONES. NATIVE SOIL AFTER CLEARING AND GRUBBING.
- STEP 3**
INSTALL PLANTS FOLLOWED BY 3" WOOD CHIP MULCH.

CONFORMED DRAWINGS



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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**
SAMMAMISH, WA

PLANTING DETAILS

SHEET NO.
209 OF 213
LD1

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

REVISIONS	DATE	BY	DESIGNED
			J. SWENSON
			B. PURGANAN
			Y. HO
			J. BAILEY

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1.1 Restoration Goals, Objectives, and Performance Standards

The overall goal for the George Davis Creek fish passage improvement project is to improve instream habitat and replace habitats and functions of riparian conditions lost as a result of the project. The proposed stream restoration of George Davis Creek (Type F stream) will occur both upstream and downstream of the trail by installing fish passable culverts, improving instream habitat through re-routing and regrading portions the stream to address steep topography, physical constraints around the stream, and sediment loads within the stream, and daylighting the stream in the trail right of way. The existing twin culverts beneath the trail will be replaced with a new 20-foot-long, 17-foot-span, 9.5-foot-rise concrete box culvert that is fish passable. The proposed new structure at the East Lake Sammamish Shore Lane NE crossing will be a 20-foot long, 17-foot span, 10-foot rise concrete box culvert. Restoration of the riparian stream buffer vegetation involves enhancement of 4,525 sf or 0.104 acre of buffer adjacent to George Davis Creek with native woody shrubs. Specific goals and objectives formulated to achieve this result are presented below.

The new crossings will be coordinated with two projects being conducted by the City of Sammamish including the replacement of the culvert beneath East Lake Sammamish Parkway and daylighting George Davis Creek downstream of East Lake Sammamish Shore Lane NE. The City will be responsible for monitoring their project areas; however, the existing alignment of George Davis Creek will need to be re-aligned so that both the King County's and the City of Sammamish fish passage improvement projects will align with one another. In effect the existing stream channel between East Lake Sammamish Trail and the Interim Use Trail will be filled and a new channel established just south of the existing channel.

1.1.1 Restoration Goals

The restoration goals are:

- Replace two fish barrier culverts on George Davis Creek with fish passable culverts.
- Establish/restore 0.104 acre of forested stream buffer. Achievement of these goals is expected to provide the following improvements to stream and stream buffer functions:
- Provide additional fish habitat by removing fish barriers, increasing open stream channel, and opening up available upstream habitat.
- Increase the production of organic matter by planting trees and shrubs in the established/restored stream buffer.
- Increase fish and wildlife habitat and improve biological diversity by planting with a variety of native buffer plant species and by installing habitat features (habitat logs and brush piles).

1.1.2 Restoration Objectives and Performance Standards

1.1.2.1 Streams

Instream Habitat

- Objective 1: Replace existing fish barrier culverts at the George Davis Creek trail crossing and East Lake Sammamish Shore Lane NE with fish passage culverts to open up available upstream habitat.**
- Performance Standards:**

- Year 1, 3, and 5
- Constructed habitat elements including the new fish passable culverts, regraded channels, and streambed material will remain in place as constructed at the two culvert replacement sites. An individual culvert monitoring plans has been developed for the George Davis Creek culverts that will guide monitoring at these culverts.

1.1.2.2 Stream Buffers Areas

- Objective 2: Establish/Restore a minimum of 0.104-acre of forested stream buffer.**
- Performance Standards:**

- Year 1
- Survival of planted woody species in increased/enhanced wetland buffer and enhanced stream buffer areas will be at least 80 percent.
- Year 2
- Record percent cover of native woody species in increased/enhanced wetland buffer and enhanced stream buffer areas to establish a baseline for areal cover.
- Year 3
- Native woody species will achieve a minimum of 25 percent areal cover in the restored stream buffer area.
- Year 5
- Native woody species will achieve a minimum of 50 percent areal cover in the restored stream buffer area.

1.1.2.3 Invasive Species

- Objective 4: Limit invasive non-native species throughout the restoration site planting areas.**
- Performance Standards:**
- Year 1, 2, 3, 5
- Himalayan blackberry, cutleaf blackberry, Scotch broom, English ivy, reed canarygrass, and hedge false bindweed will not exceed 20 percent areal cover in all planting areas.

1.1.2.4 Wildlife Habitat

- Objective 5: Provide wildlife habitat.**
- Performance Standards:**
- Year 1, 2, 3, 5
- Increase in areal cover of native woody species in all restoration areas, as measured in Objectives 1 and 2to be used as a surrogate to indicate increasing habitat functions.
- Year 1, 3, 5
- Increase in species richness of native species over preexisting conditions in all restoration areas, as measured in Objectives 1
- Year 1, 2, 3, 5
- Installed habitat features are present and functional.

1.1.2.5 Anthropogenic Disturbance

- Objective 6: Protect the restoration site from anthropogenic disturbance.**
- Performance Standards:**
- Year 1 through 5
- Conduct qualitative monitoring to assess the status of the site yearly during the 5-year monitoring period to monitor for human disturbance, including but not limited to filling, trash, and vandalism.
- Year 1 through 5
- Install and maintain fences and appropriate signs along the trail adjacent to each site to identify their protected status.

1.2 Record Drawings

Record drawings and/or a report documenting the as-built or installed conditions will be prepared after construction and plantings are complete. The report will include the following components: (1) drawings that clearly identify the boundaries of the restoration areas; (2) locations of the sampling and monitoring sites (including photo-point locations); (3) locations of hydrology monitoring stations; (4) photographs of the restoration sites; and (5) an analysis of any changes to the restoration plan that occurred during construction. A copy of the record drawing report will be sent to the City and USACE within 60 days of completion of construction and planting.

1.3 Monitoring

The restoration areas will be monitored during and after construction. During construction, monitoring will ensure that the BMPs are observed to minimize impacts, and the on-site construction work (including grading and planting) will be coordinated to ensure that the sites are constructed as designed.

After construction is completed, long-term monitoring will be performed annually to ensure that the goals and objectives of the restoration are being met. Monitoring of the restoration areas will be performed over a 5-year period by a qualified professional (SMC 21A.50.145). A combination of quantitative and qualitative monitoring activities will be used to assess the management objectives and associated performance standards described in the restoration plan. Activities will include site visits to monitor unnatural site disturbance, photographs to document site development, and data collection for the quantitative evaluation of performance standards. The results of the monitoring will be submitted to the permitting agencies.

Appropriate contingency measures will be developed, as needed, by a qualified professional to ensure that the sites develop healthy vegetation that meets the obligations described in this restoration plan and the associated permits.

1.3.1 Quantitative Monitoring

The following bulleted items describe the methods to be used for the quantitative monitoring, monitoring schedule, and report deadlines.

- The planting sites will be assessed by an appropriate quantitative vegetative field assessment methodology. The line intercept method will be used for determining percent areal cover for woody and invasive species.
- Quantitative vegetation assessments will follow the same method in each consecutive monitoring year.
- Quantitative vegetation assessments will be performed between June 15 and September 15 of each monitoring year.
- Monitoring reports will be sent to agencies requiring monitoring reports by October 31 of each monitoring year.
- Permanent photographic stations will be established to monitor the development of the sites. Photographs will be taken along transect lines and from vantage points that capture the general restoration area. All photographs will be labeled to identify locations.

CONFORMED DRAWINGS



REVISIONS	DATE	BY	DESIGNED
			J. SWENSON
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

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JOB No. 554-1521-075 P19 T03
DATE JUNE 2021

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PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B - PHASE 2 SAMMAMISH, WA

MITIGATION NOTES

SHEET NO. 210 OF 213
LD2

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

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1.3.2 Qualitative Monitoring

Qualitative monitoring will be conducted as follows:

- A qualified professional will qualitatively assess the constructed habitat elements including the new fish passable culverts, regraded channels, and streambed material for the first 3 years.
- Qualitative assessment will be performed yearly to visually assess the health of plants and identify areas that may need control of non-native invasive species or other maintenance activities.
- During all qualitative monitoring years, photographic documentation of the site will occur from permanent photograph stations.

1.4 Maintenance

The proposed restoration is intended to achieve the performance standards with minimal ongoing maintenance. However, King County will manage and maintain the site for 5 years, or until all performance standards are met and the site is closed with the approval of permitting agencies.

As mentioned previously, King County Parks has a formal maintenance program for its trail mitigation and restoration projects. The County understands that regular maintenance is necessary to achieve its mitigation and restoration commitments in public trail corridors.

Planted vegetation species are adapted to varying site conditions in the Puget Sound lowland, although supplemental irrigation may be needed during the first two growing seasons after installation to ensure the long-term survival of the plants. The need for irrigation will be evaluated based on the conditions observed during the establishment period.

To ensure rapid establishment of the plant community, trees and shrubs will be planted closer together than would generally occur in natural mature stands. Some natural mortality is expected to occur during the monitoring period. All dead and downed woody material will be left in place to provide microhabitats for wildlife. Plants will be replaced as needed to meet performance standards.

Maintenance to control nuisance species in the restoration areas will likely be necessary. During the monitoring period, if it becomes evident that invasive species are impeding establishment of desirable native plants, measures will be implemented to control nuisance species. A progressively aggressive approach will be used to control nuisance species. Control measures will first include hand cutting and/or grubbing and removal; if this fails, an environmentally sensitive herbicide (e.g., Rodeo or equivalent) may be applied.

A project specific Vegetation Management Plan (VMP) will identify the practices, policies, and procedures for addressing hazard trees, maintaining vegetation at intersections within sight distance triangles and along the trail corridor, addressing noxious weeds, and maintaining drainage features (ditches, pipes, culverts). King County is currently redesigning drainage to comply with the most current stormwater regulations. King County will provide a segment specific update to the Vegetation Management Plan, including a maintenance schedule.

There are some specific instances where care needs to be taken when conducting regularly scheduled maintenance activities. This is directly related to management activities within restoration sites as well as for the protection of existing critical area features such as streams that are adjacent to the alignment and are detailed further below.

1.4.1 Ditch Maintenance Activities

Care needs to be taken when conducting maintenance on ditches that drain to streams or those that are associated with wetlands. Activities such as removal of accumulated sediment can alter flow patterns, alter the hydroperiod of wetlands, and encourage growth of invasive and noxious plant species. It is recommended that accumulated sediment removal from ditches be limited only to that necessary to maintain flow within the ditch (top 1 to 2 inches of accumulated sediment). In addition, over-excavation can also result in removal of native vegetation and may interfere with the success of restoration areas in meeting their specific identified performance standards during regularly scheduled maintenance activities.

1.4.2 Vegetation Maintenance

Care should be taken when maintaining vegetation along the trail alignment, particularly within trailside wetlands, restoration areas and along streams. It is recommended that these areas be clearly marked and differentiated from landscaping areas so that each area specific maintenance needs are met. Vegetation in restoration areas should never be mowed. Instead vegetation should only be trimmed to the extent that the trail remains unobstructed and to maintain adequate flow conveyance through ditch systems along the trail. This will ensure that restoration areas meet their target performance standards during regularly scheduled monitoring.

1.5 Contingency Measures

Adaptive management is driven by the monitoring results and the performance standards. If the performance standards are not met, adaptive management activities will be implemented to achieve the desired condition. Management activities may include implementation of contingencies described in Table 5-5, or other appropriate measures. Site conditions will be evaluated to determine the cause of the problem and the most appropriate countermeasure.

Table 5-5. Contingency Measures for the Restoration Site

Problem	Contingency Measure
Less than 80% of planted woody species survive in Year 1	King County biologists (or other qualified biologist) will assess the site to determine what conditions are preventing the plants from thriving. Appropriate measures will be taken to correct any conditions that are limiting growth. Plants will be replaced with appropriate native species to achieve the Year 1 standard. Additional measures (such as providing additional protection) will be considered if necessary.
Percent cover for woody species not met during Years 3, 5	King County biologists (or other qualified biologist) will assess the site to determine what conditions are preventing the plants from thriving. Appropriate measures, such as increased weed control or extra plantings, will be taken to correct any conditions that are limiting growth.
Invasive species exceed percent cover threshold	Implement/revise invasive species control plan.
Performance standards not met at Year 5	Continue the monitoring regime for 1 additional year. The site will continue to be evaluated every year until each site has met the stated performance standards associated with management objectives. Other contingency measures may be implemented during this period.

Information from the annual monitoring program will be used to identify any maintenance and/or corrective actions. If problems are identified in monitoring, King County biologists will determine the

cause of the problem and implement proper maintenance or corrective activities. These activities will be discussed in the annual monitoring report.

1.6 Performance Security/Financial Assurance

This restoration project will be sponsored by King County. The County will implement a suitable mechanism to ensure that the project is implemented successfully and monitored for a minimum of 5 years, or until the project restoration is deemed a success by achieving its performance standards.

1.7 Site Protection

The County owns the property underlying the restoration site. They will protect the restoration site in perpetuity through a legal mechanism that permits maintenance and monitoring of the restoration area. This mechanism shall be retained by the County and may be submitted to the USACE after permit issuance, if required. In addition, permanent fencing and/or signs indicating that the area is a natural or sensitive or critical area to be protected from disturbance will be posted along the boundaries of each restoration area.

1.8 Long-term Management Plan

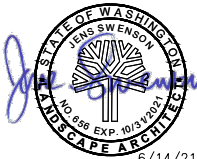
The restoration site is located on King County property. After attainment of performance standards and acceptance of the restoration project by the USACE, the County will implement a long-term management plan for the sites as part of trail operations, if required.

Site management activities will include noxious weed control, damage repair from vandalism, trash removal, and signage maintenance.

Monitoring reports or technical memoranda will document annual management activities and identify key issues and actions needed for the following year. Reports are anticipated to be submitted every year to the USACE, by the end of the calendar year, for the first 5 years following attainment of performance standards.

The County will issue a letter of assurance to cover long-term management costs of the restoration site to the USACE ensuring the County's compliance with the long-term management plan.

CONFORMED DRAWINGS



6/14/21

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P 206.394.3700
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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

MITIGATION NOTES

SHEET NO.
211 OF 213

LD3

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date



REVISIONS	DATE	BY	DESIGNED
			J. SWENSON
			DRAWN B. PURGANAN
			CHECKED Y. HO
			APPROVED J. BAILEY

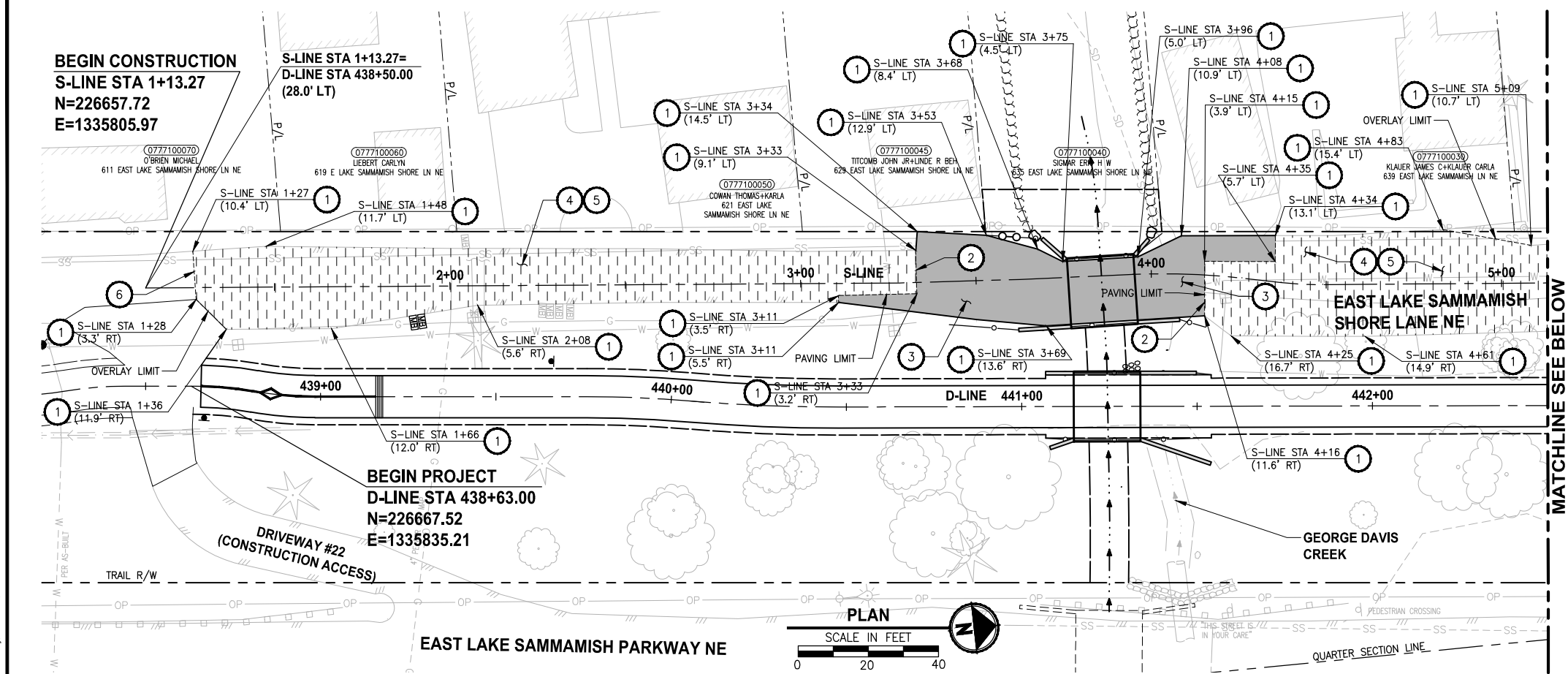
**ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY**

FILE NAME
BL1521075P19T03LD-01_GDC

JOB No.
554-1521-075 P19 T03

DATE
JUNE 2021

PATH: U:\P50\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Sect\CADD\Phase 19\T03 CHA\Draw-CDC Phase2\ LAYOUT: PV1
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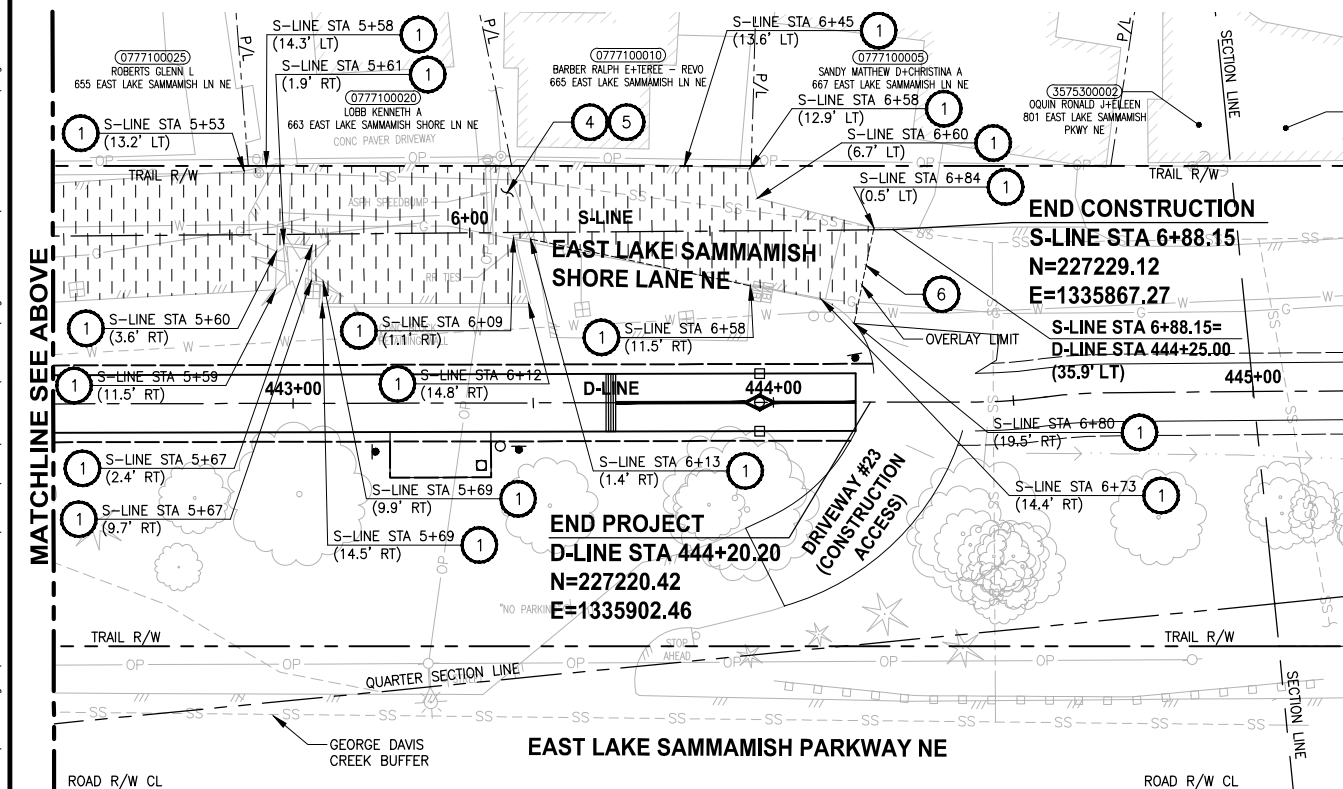


PAVING CONSTRUCTION NOTES:

- 1 EDGE OF PAVEMENT.
- 2 TRANSVERSE JOINT, SEE DETAIL 3 ON SHEET MD2.
- 3 HMA CL 1/2" PG 64-22.
- 4 HMA CL 1/2" PG 64-22 FOR OVERLAY.
- 5 PLANING BITUMINOUS PAVEMENT 2 INCH DEPTH.
- 6 BUTT JOINT, SEE DETAIL 4 ON SHEET MD2.

LEGEND:

- HMA LIMIT
- ===== PLANING AND 2" HMA PAVEMENT OVERLAY
- ===== HMA PAVING



CONFORMED DRAWINGS



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PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2**

SAMMAMISH, WA

**CITY OF SAMMAMISH PUBLIC WORKS
DEVELOPMENT REVIEW**

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed **ACCEPTABLE**. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

17 February 2022

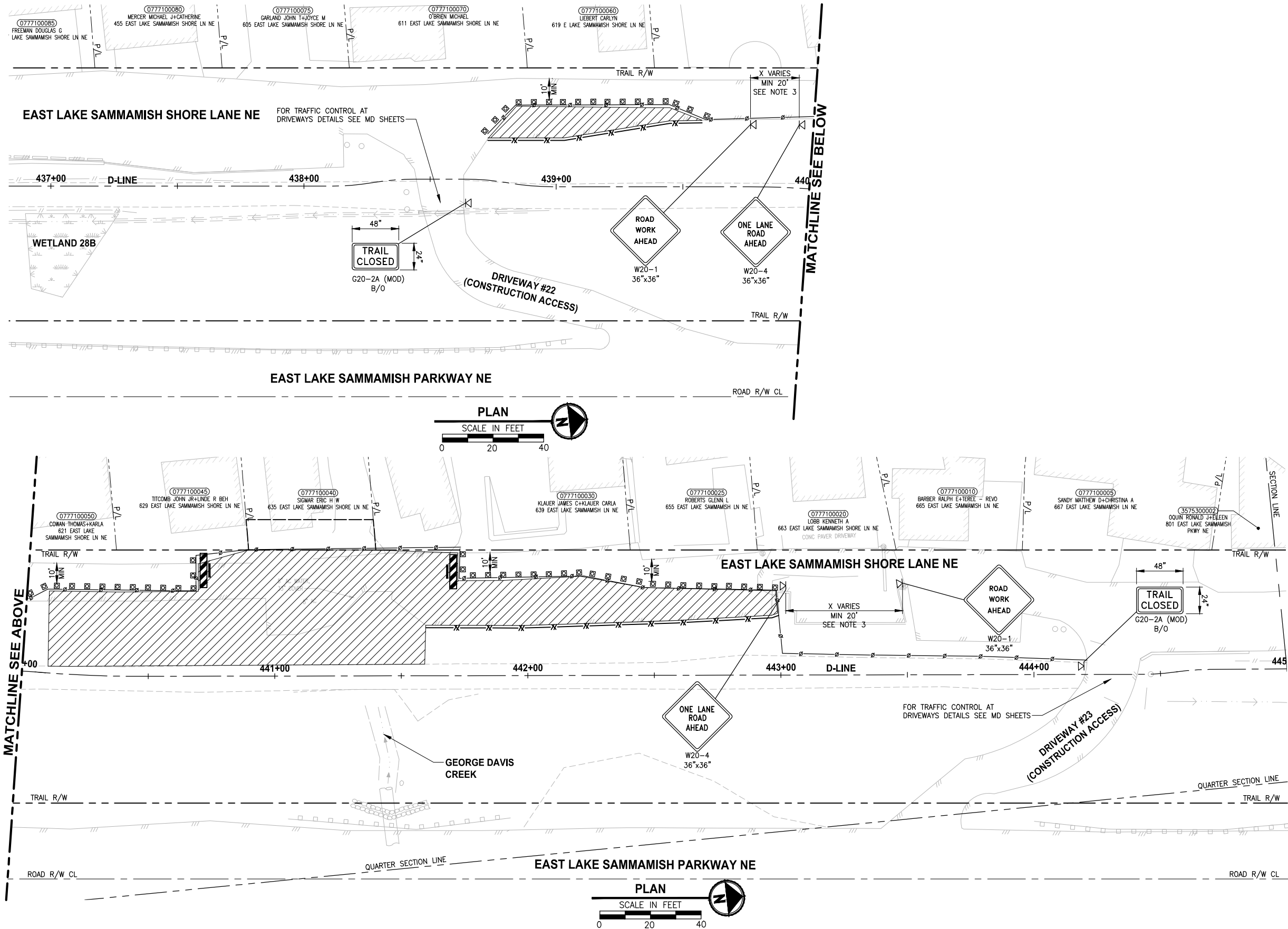
CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

PAVING PLAN

SHEET NO.
212 OF 213

PV1

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NOTES:

1. DRIVEWAYS SHALL REMAIN OPEN TO LOCAL ACCESS AT ALL TIMES.
2. FOR SIGN SIZES, REFER TO MUTCD.
3. SIGN SPACING MAY BE ADJUSTED/REDUCED TO ACCOMMODATE DRIVEWAY APPROACHES.

LEGEND:

- Channelizing Devices
- Work Zone
- Type III Barricade. See Appendix B in Specifications.
- Temporary Sign Location

CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW

These drawings have been reviewed for compliance with City of Sammamish Clearing and Grading and Stormwater requirements and also in accordance with the requirements as established in the Settlement Agreement between King County vs. City of Sammamish No. C17-0921 JCC and King County vs. City of Sammamish No. 17-2-29922-7 SEA and have been deemed ACCEPTABLE. The reviewer accepts no responsibility for any errors and/or omissions made by the preparer of these drawings.

17 February 2022

CONFORMED DRAWINGS



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PROJECT NAME
EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B - PHASE 2
SAMMAMISH, WA

TRAFFIC CONTROL PLAN

SHEET NO.
213 OF 213

TC1

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03TC-01_GDC
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