NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE

VOLUME 1 OF 2, NORTH MERCER PUMP STATION AND LIFT STATION 11

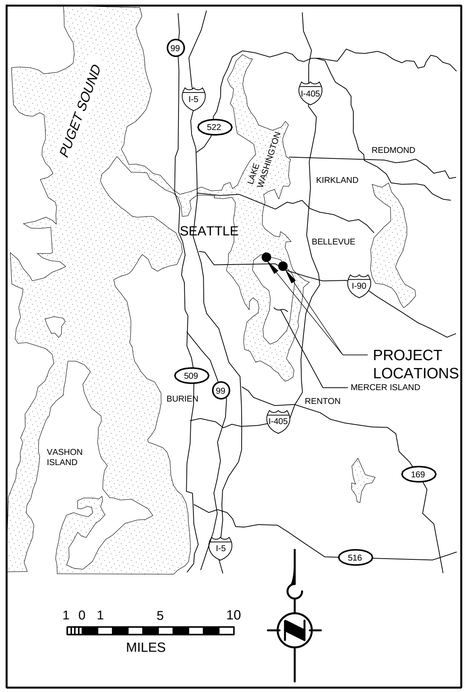
CONTRACT NUMBER: C01339C20

APPLICATION FOR CITY OF MERCER ISLAND CRITICAL AREAS LAND USE PERMIT PROJECT PLAN SET

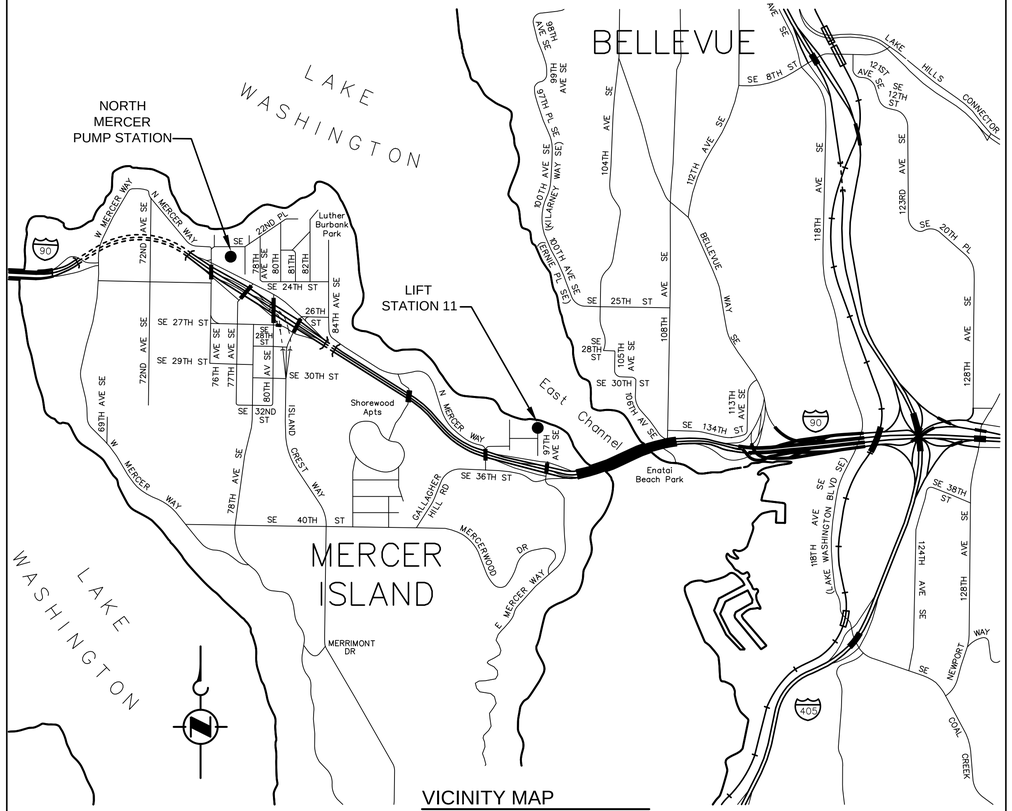
SEPTEMBER 2019

Updates: March 2020

KING COUNTY
Department of Natural Resources and Parks
Wastewater Treatment Division



LOCATION MAP
SCALE: AS SHOWN



VICINITY MAP
SCALE: NONE

NORTH MERCER PUMP STATION ADDRESS: 7631 SE 22ND STREET
MERCER ISLAND, WA 98040

LIFT STATION 11 ADDRESS: 3309 97TH AVENUE SE
MERCER ISLAND, WA 98040

FOR REFERENCE ONLY

CALL TWO
BUSINESS DAYS
BEFORE YOU DIG
811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
LOCATION AND VICINITY MAPS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G001**
SHT NO / TOTAL: 001 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\12539\135-12539-16001\CAD\SheetFiles\333-E00306E13G001.dwg
PLOT DATE: 4/27/2019 12:08 PM
PLOTTED BY: Schey, Eric

DRAWING INDEX

SHT#	DWG#	DRAWING TITLE
	GENERAL	
0		COVER
1	G001	LOCATION AND VICINITY MAPS
2	G002	DRAWING INDEX 1
3	G003	DRAWING INDEX 2
4	G004	GENERAL SYMBOLS AND REFERENCING
5	G005	CIVIL SYMBOLS
6	G006	GENERAL ABBREVIATIONS
7	G007	AREA CLASSIFICATION PLAN
8	G008	GENERAL NOTES
9	G009	LEGAL AND PROJECT DESCRIPTION, CODE SUMMARY
10	G010	GENERATOR BUILDING - CODE SUMMARY PLAN
11	G011	SURVEY CONTROL
12	G012	TOPOGRAPHIC SURVEY
13	G013	GEOTECHNICAL BOREHOLE AND INSTRUMENTATION PLAN
14	G014	GEOTECHNICAL INSTRUMENTATION DETAILS
	DEMOLITION	
15	D-G001	GENERAL DEMOLITION NOTES
16	D-A201	PUMP STATION CONTROL ROOM ARCHITECTURAL DEMOLITION
17	D-A202	PUMP STATION EQUIPMENT ROOM ARCHITECTURAL DEMOLITION
18	D-A203	PUMP STATION MOTOR ROOM ARCHITECTURAL DEMOLITION
19	D-A204	PUMP STATION PUMP ROOM ARCHITECTURAL DEMOLITION
20	D-A205	PUMP STATION ROOF DEMOLITION
21	D-A206	PUMP STATION ROOF DEMOLITION SECTIONS
22	D-C101	SITE CIVIL DEMOLITION PLAN
23	D-C102	SITE CIVIL DEMOLITION PLAN
24	D-C103	EXISTING TREE INVENTORY TABLE
25	D-M201	PUMP STATION CONTROL ROOM MECHANICAL DEMOLITION
26	D-M202	PUMP STATION EQUIPMENT ROOM MECHANICAL DEMOLITION
27	D-M203	PUMP STATION MOTOR ROOM MECHANICAL DEMOLITION
28	D-M204	PUMP STATION PUMP ROOM MECHANICAL DEMOLITION
29	D-M205	PUMP STATION CONTROL ROOM HVAC DEMOLITION
30	D-M206	PUMP STATION EQUIPMENT ROOM HVAC DEMOLITION
31	D-M207	PUMP STATION MOTOR ROOM HVAC DEMOLITION
32	D-M208	PUMP STATION PUMP ROOM HVAC DEMOLITION
33	D-M209	PUMP STATION CONTROL ROOM PLUMBING DEMOLITION
34	D-M210	PUMP STATION EQUIPMENT ROOM PLUMBING DEMOLITION
35	D-M211	PUMP STATION MOTOR ROOM PLUMBING DEMOLITION
36	D-M212	PUMP STATION PUMP ROOM PLUMBING DEMOLITION
37	D-M213	PUMP STATION RISER DIAGRAMS PLUMBING DEMOLITION
38	D-E001	ELECTRICAL ONE-LINE DIAGRAM DEMOLITION
39	D-E002	ELECTRICAL ONE-LINE DIAGRAM DEMOLITION
40	D-E003	ELECTRICAL ONE-LINE DIAGRAM DEMOLITION
41	D-E201	PUMP STATION CONTROL ROOM ELECTRICAL DEMOLITION
42	D-E202	PUMP STATION CONTROL RM ELEVATION ELEC DEMOLITION
43	D-E203	PUMP STATION EQUIPMENT ROOM LIGHTING DEMOLITION
44	D-E204	PUMP STATION MOTOR ROOM LIGHTING DEMOLITION
45	D-E205	PUMP STATION PUMP ROOM LIGHTING DEMOLITION
46	D-I201	MAIN CONTROL PANEL PANEL EXTERIOR DEMOLITION
47	D-I202	MAIN CONTROL PANEL INTERIOR DEMOLITION
48	D-I203	PUMP STATION MANOMETER DEMOLITION
49	D-I204	PUMP STATION LEVEL CONTROL DEMOLITION
50	D-I205	PUMP STATION SPEED CONTROL DEMOLITION
51	D-I206	PUMP STATION FIT & PIT DEMOLITION
52	D-I207	PUMP STATION LEL DEMOLITION
53	D-I208	PUMP STATION TEMPERATURE CONTROL DEMOLITION
54	D-I209	PUMP STATION PUMP 1 WIRING DEMOLITION
55	D-I210	PUMP STATION PUMP 2 WIRING DEMOLITION
56	D-I211	PUMP STATION PUMP 3 WIRING DEMOLITION
57	D-I212	PUMP STATION METROTEL DEMOLITION
	TEMPORARY	
58	T-C101	TEMPORARY FACILITIES CIVIL SITE PLAN
59	T-S901	TEMPORARY PUMP STATION STRUCTURAL DETAILS
60	T-P901	TEMPORARY PUMP STATION WET WELL P&ID 1
61	T-P902	TEMPORARY PUMP STATION WET WELL P&ID 2
62	T-P903	TEMPORARY PUMP STATION PUMP 1 CONTROL P&ID
63	T-P904	TEMPORARY PUMP STATION PUMP 2 CONTROL P&ID
64	T-P905	TEMPORARY PUMP STATION PUMP 3 CONTROL P&ID
65	T-P906	TEMPORARY PUMP STATION VAULTS P&ID
66	T-M901	TEMPORARY PUMP STATION MECHANICAL PLAN
67	T-M902	TEMPORARY PUMP STATION MECHANICAL SECTIONS
68	T-M903	TEMPORARY PUMP STATION MECHANICAL SECTIONS
69	T-M904	TEMPORARY PUMP STATION MECHANICAL DETAILS
70	T-M905	TEMPORARY PUMP STATION MECHANICAL DETAILS
71	T-E001	TEMPORARY PUMP STATION ONE-LINE DIAGRAM
72	T-E002	TEMPORARY PUMP STATION SCHEDULES
73	T-E003	TEMPORARY PUMP STATION SCHEDULES
74	T-E004	TEMPORARY PUMP STATION ELECTRICAL ELEVATON
75	T-E901	TEMPORARY PUMP STATION ELECTRICAL POWER PLAN
76	T-E902	TEMPORARY PUMP STATION ELECTRICAL LIGHTING PLAN
77	T-E903	TEMPORARY PUMP STATION CONTROLS PLAN
78	T-I901	TEMPORARY PUMP STATION CONTROL PANEL EXTERNAL LAYOUT
79	T-I902	TEMPORARY PUMP STATION CONTROL PANEL INTERIOR LAYOUT
80	T-I903	TEMPORARY PUMP STATION CONTROL PANEL AC POWER WIRING DIAGRAM
81	T-I904	TEMPORARY PUMP STATION CONTROL PANEL DC POWER WIRING DIAGRAM
82	T-I905	TEMPORARY PUMP STATION CONTROL PANEL CONTROL WIRING DIAGRAM 1
83	T-I906	TEMPORARY PUMP STATION CONTROL PANEL CONTROL WIRING DIAGRAM 2
84	T-I907	TEMPORARY PUMP STATION PUMP 1 CONTROL DIAGRAM
85	T-I908	TEMPORARY PUMP STATION PUMP 2 CONTROL DIAGRAM
86	T-I909	TEMPORARY PUMP STATION PUMP 3 CONTROL DIAGRAM
87	T-I910	TEMPORARY PUMP STATION LEVEL AND FLOW CONTROL DIAGRAMS
88	T-I911	TEMPORARY PUMP STATION PLC DISCRETE OUTPUT WIRING SCHEMATIC
89	T-I912	TEMPORARY PUMP STATION PLC DISCRETE INPUT WIRING SCHEMATIC 1
90	T-I913	TEMPORARY PUMP STATION PLC DISCRETE INPUT WIRING SCHEMATIC 2
91	T-I914	TEMPORARY PUMP STATION PLC ANALOG INPUT/OUTPUT WIRING SCHEMATIC
92	T-I915	TEMPORARY PUMP STATION METROTEL PANEL LAYOUT
93	T-I916	TEMPORARY PUMP STATION METROTEL PANEL WIRING DIAGRAM
94	T-I917	TEMPORARY PUMP STATION PUMP 1 & 2 LOOP DIAGRAM
95	T-I918	TEMPORARY PUMP STATION PUMP 3 LOOP DIAGRAM
	CIVIL	
96	C011	EROSION CONTROL GENERAL NOTES
97	C012	TESC DETAILS
98	C013	TESC DETAILS
99	C014	TESC DETAILS
100	C015	TESC DETAILS
101	C021	SEWER DETAILS
102	C022	SEWER DETAILS
103	C023	SEWER DETAILS
104	C031	STORM DRAINAGE DETAILS
105	C032	STORM DRAINAGE DETAILS
106	C033	STORM DRAINAGE DETAILS
107	C034	STORM DRAINAGE DETAILS
108	C035	STORM DRAINAGE DETAILS
109	C036	STORM DRAINAGE DETAILS
110	C041	WATER DETAILS
111	C051	ROAD SECTIONS AND SITE DETAILS
112	C052	SITE DETAILS
113	C053	SITE DETAILS
114	C061	MISC DETAILS
115	C101	TESC SURFACE RUNOFF MANAGEMENT PLAN
116	C121	NMPS FORCE MAIN PLAN
117	C122	NMPS FORCE MAIN PROFILE
118	C123	NMPS FORCE MAIN CREEK CROSSING
119	C124	STORM DRAINAGE PLAN
120	C125	STORM DRAINAGE PROFILES
121	C126	WATER UTILITY PLAN
122	C131	ACCESS ROAD CONTROL
123	C132	ACCESS ROAD PROFILES
124	C133	RETAINING WALL AND STEM WALL PLAN
125	C134	RETAINING WALL PROFILE
126	C135	SCB AND STEM WALL PROFILE
127	C141	GRADING AND PAVING PLAN
	LANDSCAPE	
128	L101	LANDSCAPE PLAN
129	L102	LANDSCAPE DETAILS
130	L103	LANDSCAPE DETAILS
131	L104	LANDSCAPE DETAILS
	ARCHITECTURAL	
132	A001	ARCHITECTURAL MATERIALS, SYMBOLS & LIFE SAFETY LEGEND
133	A002	ARCHITECTURAL SCHEDULES
134	A003	DOOR & LOUVER DETAILS
135	A100	ARCHITECTURAL SITE PLAN
136	A101	FACILITY SECTIONS & VIEWS
137	A102	FACILITY RENDERS
138	A103	SITE FENCING DETAILS
139	A201	PUMP STATION - CONTROL ROOM PLAN
140	A202	PUMP STATION - EQUIPMENT ROOM PLAN
141	A203	PUMP STATION - MOTOR ROOM PLAN
142	A204	PUMP STATION - PUMP ROOM PLAN
143	A206	PUMP STATION - EAST ELEVATION
144	A207	PUMP STATION - SOUTH ELEVATION
145	A208	PUMP STATION - WEST ELEVATION
146	A209	PUMP STATION - NORTH ELEVATION
147	A210	PUMP STATION - BUILDING SECTIONS
148	A211	PUMP STATION - BUILDING SECTIONS
149	A212	PUMP STATION - WALL DETAILS
150	A214	PUMP STATION - REFLECTED CEILING PLAN
151	A215	PUMP STATION - ROOF PLAN
152	A216	PUMP STATION - ROOF SECTIONS & DETAILS
153	A217	PUMP STATION - ROOF SECTIONS
154	A301	GENERATOR BUILDING - FLOOR PLAN
155	A302	GENERATOR BUILDING - ROOF PLAN
156	A303	GENERATOR BUILDING - REFLECTED CEILING PLAN
157	A304	GENERATOR BUILDING - NORTH ELEVATION
158	A305	GENERATOR BUILDING - SOUTH ELEVATION
159	A306	GENERATOR BUILDING - EAST ELEVATION
160	A307	GENERATOR BUILDING - WEST ELEVATION
161	A308	GENERATOR BUILDING - BUILDING SECTIONS
162	A309	GENERATOR BUILDING - BATHROOM DETAIL PLAN & ELEVATIONS
163	A310	GENERATOR BUILDING - WALL DETAILS
164	A311	GENERATOR BUILDING - WALL DETAILS
165	A312	GENERATOR BUILDING - ROOF DETAILS
166	A313	GENERATOR BUILDING - ROOF DETAILS
167	A314	GENERATOR BUILDING - MISC. DETAILS
	STRUCTURAL	
168	S001	STRUCTURAL GENERAL NOTES 1
169	S002	STRUCTURAL GENERAL NOTES 2
170	S003	STRUCTURAL GENERAL NOTES 3
171	S004	SPECIAL INSPECTION REQUIREMENTS 1
172	S005	SPECIAL INSPECTION REQUIREMENTS 2
173	S006	SPECIAL INSPECTION REQUIREMENTS 3
174	S007	SPECIAL INSPECTION REQUIREMENTS 4
175	S008	SPECIAL INSPECTION REQUIREMENTS 5
176	S101	RETAINING WALL DETAILS
177	S201	PUMP STATION ROOF FRAMING MODIFICATION PLAN
178	S202	PUMP STATION ROOF FRAMING MODIFICATION DETAILS
179	S203	PUMP STATION CONTROL ROOM PLAN & SECTIONS
180	S204	PUMP STATION PUMP ROOM PLAN & SECTIONS
181	S205	PUMP STATION WET WELL PLAN
182	S206	PUMP STATION WET WELL SECTIONS
183	S301	GENERATOR BUILDING FOUNDATION PLAN
184	S302	GENERATOR BUILDING ROOF PLAN
185	S303	GENERATOR BUILDING TRANSVERSE & LOGITUDINAL SECTIONS
186	S304	GENERATOR BUILDING WALL ELEVATIONS 1
187	S305	GENERATOR BUILDING WALL ELEVATIONS 2
188	S306	GENERATOR BUILDING SECTIONS & DETAILS 1
189	S307	GENERATOR BUILDING SECTIONS & DETAILS 2
190	S308	GENERATOR BUILDING SECTIONS & DETAILS 3
191	S401	CARBON VESSEL FOUNDATION
192	S402	CARBON VESSEL PLATFORM PLAN & DETAILS
193	S403	CARBON VESSEL PLATFORM SECTIONS & DETAILS
194	S501	BIOXIDE CONTAINMENT BASIN PLAN & SECTION

DRAWINGS NOT INCLUDED IN THE LAND USE SET HAVE BEEN SHADED RED, BUT HAVE BEEN LEFT ON THE INDEX TO PROVIDE CONTEXT FOR DRAWING CROSS-REFERENCES.

FOR REFERENCE ONLY

DRAWING NUMBERING LEGEND

0	GENERAL DETAILS
100	SITE
200	PUMP STATION (WET WELL/DRY WELL)
300	GENERATOR BUILDING
400	ODOR CONTROL-AIR PHASE
500	ODOR CONTROL-LIQUID PHASE
600	LIFT STATION 11
900	TEMPORARY PUMP STATION

CALL TWO BUSINESS DAYS BEFORE YOU DIG 811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
DRAWING INDEX 1

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G002**
SHT NO / TOTAL: 002 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\12539\135-12539-160011\CAD\SheetFiles\333-E00306E13G002.dwg
PLOT DATE: 5/1/2019 4:06 PM
PLOTTED BY: Thomasy, Bryan

DRAWING INDEX

SHT#	DWG#	DRAWING TITLE
		PROCESS
195	P001	PROCESS AND INSTRUMENTATION LEGEND AND SYMBOLS
196	P002	PROCESS EQUIPMENT SYMBOLS LEGEND
197	P003	PROCESS EQUIPMENT SYMBOLS LEGEND
198	P004	PROCESS AND INSTRUMENTATION LOGIC BLOCK LEGEND
199	P201	PUMP STATION WET WELL P&ID 1
200	P202	PUMP STATION WET WELL P&ID 2
201	P203	PUMP STATION PUMP 1 CONTROL P&ID
202	P204	PUMP STATION PUMP 2 CONTROL P&ID
203	P205	PUMP STATION PUMP 3 CONTROL P&ID
204	P206	PUMP STATION 16-INCH FORCE MAIN P&ID
205	P207	PUMP STATION 18-INCH FORCE MAIN P&ID
206	P208	PUMP STATION AIR SYSTEM P&ID
207	P209	PUMP STATION C2 WATER SYSTEM P&ID
208	P210	PUMP STATION SEAL WATER PUMPS P&ID
209	P211	PUMP STATION MISCELLANEOUS CONTROL P&ID
210	P212	PUMP STATION WET WELL GAS MONITORING P&ID
211	P213	PUMP STATION SUMP SYSTEM P&ID
212	P301	GENERATOR BUILDING GENERATOR & FUEL P&ID
213	P302	GENERATOR BUILDING MISCELLANEOUS CONTROL P&ID
214	P401	AIR PHASE ODOR CONTROL SYSTEM P&ID
215	P501	LIQUID PHASE ODOR CONTROL SYSTEM P&ID
		MECHANICAL
216	M001	MECHANICAL PIPING SYMBOLS
217	M002	MECHANICAL VALVE SYMBOLS
218	M003	MECHANICAL HVAC SYMBOLS
219	M004	MECHANICAL PLUMBING SYMBOLS
220	M005	PIPE GUIDES AND HANGER SUPPORT SYSTEM TABLES
221	M006	STANDARD STRUCTURAL ATTACHMENTS
222	M007	PIPE ANCHORS
223	M008	SEISMIC RESTRAINTS
224	M009	PIPE PENETRATIONS
225	M009A	PIPE PENETRATIONS
226	M010	MECHANICAL HVAC DETAILS
227	M011	UTILITY STATION STANDARD DETAILS
228	M012	MECHANICAL HVAC AND GENERATOR FUEL SYSTEM DETAILS
229	M013	MECHANICAL PLUMBING DETAILS
230	M014	MECHANICAL SCHEDULES
231	M015	PROCESS PIPING SCHEMATIC
232	M016	C2 AND SEAL WATER SYSTEM SCHEMATIC
233	M101	FINAL MECHANICAL SITE PLAN
234	M201	PUMP STATION CONTROL ROOM MECHANICAL PLAN
235	M202	PUMP STATION EQUIPMENT ROOM MECHANICAL PLAN
236	M203	PUMP STATION MOTOR ROOM MECHANICAL PLAN
237	M204	PUMP STATION PUMP ROOM MECHANICAL PLAN
238	M205	PUMP STATION CONTROL ROOM HVAC PLAN
239	M206	PUMP STATION EQUIPMENT ROOM HVAC PLAN
240	M207	PUMP STATION MOTOR ROOM HVAC PLAN
241	M208	PUMP STATION PUMP ROOM HVAC PLAN
242	M209	PUMP STATION CONTROL ROOM PLUMBING PLAN
243	M210	PUMP STATION EQUIPMENT ROOM PLUMBING PLAN
244	M211	PUMP STATION MOTOR ROOM PLUMBING PLAN
245	M212	PUMP STATION PUMP ROOM PLUMBING PLAN
246	M213	PUMP STATION MECHANICAL SECTIONS
247	M214	PUMP STATION MECHANICAL SECTIONS
248	M215	PUMP STATION WET WELL MECHANICAL SECTIONS
249	M216	PUMP STATION HVAC SECTIONS
250	M217	PUMP STATION PLUMBING SECTIONS
251	M218	PUMP STATION AIR GAP TANK PLAN & SECTIONS
252	M219	PUMP STATION EQUIPMENT ROOM ENLARGED PLAN
253	M220	PUMP STATION SURGE TANK PLAN & SECTIONS
254	M221	PUMP STATION PROCESS PIPING DETAILS
255	M222	PUMP STATION WET WELL LINING DETAILS
256	M223	PUMP STATION CATHODIC PROTECTION DETAILS
257	M224	PUMP STATION HVAC AIR FLOW DIAGRAM
258	M225	PUMP STATION INSTRUMENT AIR ISOMETRIC
259	M226	PUMP STATION WATER SYSTEM ISOMETRIC
260	M227	PUMP STATION WASH WATER ISOMETRICS
261	M228	PUMP STATION SEAL WATER ISOMETRICS
262	M301	GENERATOR BUILDING MECHANICAL PLAN
263	M302	GENERATOR BUILDING HVAC PLAN
264	M303	GENERATOR BUILDING PLUMBING PLAN
265	M304	GENERATOR BUILDING MECHANICAL SECTIONS
266	M305	GENERATOR BUILDING MECHANICAL DETAILS
267	M306	GENERATOR BUILDING HVAC SECTIONS
268	M307	GENERATOR BUILDING HVAC AIR FLOW DIAGRAM
269	M401	ODOR CONTROL AIR PHASE SECTIONS
270	M402	ODOR CONTROL AIR PHASE DETAILS
271	M501	ODOR CONTROL LIQUID PHASE PLAN & SECTIONS
		ELECTRICAL
272	E001	ELECTRICAL SYMBOLS & ABBREVIATIONS
273	E002	ELECTRICAL SYMBOLS & ABBREVIATIONS
274	E003	LOAD CALCULATIONS & PANEL SCHEDULES
275	E004	PANEL SCHEDULE
276	E005	MCC LOAD CALCULATION
277	E006	MCC LOAD CALCULATION & PRELIMINARY LOAD CALCULATION
278	E007	POWER CONDUIT SCHEDULE
279	E008	CONTROLS CONDUIT SCHEDULE
280	E009	ONE-LINE DIAGRAM 1
281	E010	ONE-LINE DIAGRAM 2
282	E011	ONE-LINE DIAGRAM 3
283	E012	ELECTRICAL MCC-ELEVATIONS
284	E013	ELECTRICAL LOAD BANK CONNECTION PANEL DETAIL
285	E014	FIRE ALARM PLAN
286	E015	ELECTRICAL NREC CALCULATIONS 1
287	E015A	ELECTRICAL NREC CALCULATIONS 2
288	E015B	ELECTRICAL NREC CALCULATIONS 3
289	E015C	ELECTRICAL NREC CALCULATIONS 4
290	E015D	LUMINAIRE SCHEDULE
291	E016	POWER BLOCK DIAGRAM
292	E017	CONTROL BLOCK DIAGRAM
293	E018	ELECTRICAL DETAILS
294	E019	ELECTRICAL DETAILS
295	E020	ELECTRICAL DETAILS
296	E021	ELECTRICAL DETAILS
297	E101	ELECTRICAL SITE PLAN
298	E201	PUMP STATION CONTROL ROOM POWER
299	E202	PUMP STATION CONTROL ROOM LIGHTING & GROUNDING
300	E203	PUMP STATION CONTROL ROOM CONTROLS
301	E204	PUMP STATION EQUIPMENT ROOM POWER
302	E205	PUMP STATION EQUIPMENT ROOM LIGHTING & GROUNDING
303	E206	PUMP STATION EQUIPMENT ROOM CONTROLS
304	E207	PUMP STATION MOTOR ROOM POWER
305	E208	PUMP STATION MOTOR ROOM LIGHTING & GROUNDING
306	E209	PUMP STATION MOTOR ROOM CONTROLS
307	E210	PUMP STATION PUMP ROOM POWER
308	E211	PUMP STATION PUMP ROOM LIGHTING & GROUNDING
309	E212	PUMP STATION PUMP ROOM CONTROLS
310	E301	GENERATOR BUILDING POWER
311	E302	GENERATOR BUILDING LIGHTING & GROUNDING
312	E303	GENERATOR BUILDING CONTROLS
313	E304	GENERATOR BUILDING ELECTRICAL ELEVATIONS
314	E310	GENERATOR WIRING DIAGRAM
315	E311	FIRE ALARM RISER DIAGRAM
		INSTRUMENTATION AND CONTROL
316	I001	LEGEND
317	I201	MAIN CONTROL PANEL ELEVATION
318	I202	MAIN CONTROL PANEL INTERIOR
319	I203	MAIN CONTROL PANEL DETAILS
320	I204	MAIN CONTROL PANEL PLC RACK, LAYOUT, POWER, AND COMMUNICATIONS
321	I205	MAIN CONTROL PANEL WIRING DIAGRAMS 1
322	I206	MAIN CONTROL PANEL WIRING DIAGRAMS 2
323	I207	MAIN CONTROL PANEL WIRING DIAGRAMS 3
324	I208	MAIN CONTROL PANEL WIRING DIAGRAMS 4
325	I209	MAIN CONTROL PANEL WIRING DIAGRAMS 5
326	I210	MAIN CONTROL PANEL WIRING DIAGRAM 6
327	I211	MAIN CONTROL PANEL WIRING DIAGRAM 7
328	I212	MAIN CONTROL PANEL WIRING DIAGRAM 8
329	I213	MAIN CONTROL PANEL WIRING DIAGRAM 9
330	I214	MAIN CONTROL PANEL WIRING DIAGRAM 10
331	I215	MAIN CONTROL PANEL WIRING DIAGRAM PUMP 1
332	I216	MAIN CONTROL PANEL WIRING DIAGRAM PUMP 2
333	I217	MAIN CONTROL PANEL WIRING DIAGRAM PUMP 3
334	I218	PUMP STATION ANALOG INPUT #1 OF 2
335	I219	PUMP STATION ANALOG INPUT #2 OF 2
336	I220	PUMP STATION DIGITAL INPUT #1 OF 4
337	I221	PUMP STATION DIGITAL INPUT #2 OF 4
338	I222	PUMP STATION DIGITAL INPUT #3 OF 4
339	I223	PUMP STATION DIGITAL INPUT #4 OF 4
340	I224	PUMP STATION ANALOG OUTPUT #1 OF 2
341	I225	PUMP STATION ANALOG OUTPUT #2 OF 2
342	I226	PUMP STATION RELAY OUTPUT #1 OF 2
343	I227	PUMP STATION RELAY OUTPUT #2 OF 2
344	I228	MAIN CONTROL PANEL LEVEL CONTROL LOOP DIAGRAMS
345	I229	MAIN CONTROL PANEL PUMP 1 & 2 LOOP DIAGRAMS
346	I230	MAIN CONTROL PANEL PUMP 3 LOOP DIAGRAMS
347	I231	MAIN CONTROL PANEL ANNUNCIATOR WIRING DIAGRAM 1
348	I232	MAIN CONTROL PANEL ANNUNCIATOR WIRING DIAGRAM 2
349	I233	MAIN CONTROL PANEL ANNUNCIATOR WIRING DIAGRAM 3
350	I234	MAIN CONTROL PANEL ANNUNCIATOR WIRING DIAGRAM 4
351	I235	MAIN CONTROL PANEL ANNUNCIATOR WIRING DIAGRAM 5
352	I236	WET WELL GAS MONITORING PANEL ARRANGEMENT
353	I237	GO/NO-GO PANEL ELEVATION AND SCHEDULE
354	I238	BUBBLER PANEL DIAGRAM
		LIFT STATION 11
355		LIFT STATION 11 COVER SHEET
356	G601	LIST STATION 11 GENERAL NOTES
357	G602	LIFT STATION 11 FORCE MAIN TOPOGRAPHIC SUREY
358	G603	LIFT STATION 11 FORCE MAIN TOPOGRAPHIC SUREY
359	D601	LIFT STATION 11 DEMOLITION PLAN AND NOTES
360	D602	LIFT STATION 11 DEMOLITION SECTIONS
361	D603	LIFT STATION 11 GENERATOR DEMOLITION
362	D604	LIFT STATION 11 GENERATOR VAULT DEMOLITION
363	C601	LIFT STATION 11 EXISTING SITE PLAN
364	C602	LIFT STATION 11 TESC PLAN AND NOTES
365	C603	LIFT STATION 11 CONSTRUCTION STAGING AND DIVERSION PUMPING PLAN 1 OF 2
366	C604	LIFT STATION 11 CONSTRUCTION STAGING AND DIVERSION PUMPING PLAN 2 OF 2
367	C605	LIFT STATION 11 FINAL SITE PLAN
368	C606	LIFT STATION 11 FORCEMAIN CONNECTION DETAILS 1 OF 2
369	C607	LIFT STATION 11 FORCEMAIN CONNECTION DETAILS 2 OF 2
370	C608	LIFT STATION 11 FORCE MAIN SITE PREPARATION
371	C609	LIFT STATION 11 FORCE MAIN SITE PREPARATION
372	C610	LIFT STATION 11 FORCE MAIN PLAN AND PROFILE
373	C611	LIFT STATION 11 FORCE MAIN PLAN AND PROFILE
374	C612	LIFT STATION 11 FORCE MAIN PLAN AND PROFILE SITE RESTORATION
375	C613	LIFT STATION 11 FORCE MAIN PLAN AND PROFILE SITE RESTORATION
376	M601	LIFT STATION 11 PLAN VIEW
377	M602	LIFT STATION 11 CROSS SECTIONS
378	S601	LIFT STATION 11 WET WELL LID DETAILS
379	S602	LIFT STATION 11 ELECTRICAL EQUIPMENT SLAB
380	E601	LIFT STATION 11 ONE-LINE DIAGRAM, MCC ELEVATION
381	E602	LIFT STATION 11 ELECTRICAL SITE PLAN
382	E603	LIFT STATION 11 WET WELL CONDUIT AND WIRE SCHEDULE
383	E604	LIFT STATION 11 LOOP DIAGRAM
384	E605	LIFT STATION 11 REDUCED VOLTAGE STARTER [RVSS] DIAGRAM
385	E606	LIFT STATION 11 DETAILS SHEET
386	L601	LIFT STATION 11 LANDSCAPE PLAN
387	L602	LIFT STATION 11 LANDSCAPE DETAILS
388	LS11-J 01	LIFT STATION NO 11 RTU CONTROL PANEL - PANEL LAYOUT - FOR REFERENCE
389	LS11-P 01	LIFT STATION NO 11 RTU CONTROL PANEL - AC/DC POWER DISTRIBUTION WIRNIG DIAGRAM - FOR REFERENCE
390	LS11-E 01	LIFT STATION NO 11 ANALOG INPUT MODULE - MODULE 1 - CONTROL WIRING DIAGRAM - FOR REFERENCE
391	LS11-E 02	LIFT STATION NO 11 DISCRETE I/O BASE - MODULE 2 - INPUT CONTROL WIRING DIAGRAM - FOR REFERENCE
392	LS11-E 03	LIFT STATION NO 11 DISCRETE I/O BASE - MODULE 2 - OUTPUT CONTROL WIRING DIAGRAM - FOR REFERENCE
393	LS11-E 04	LIFT STATION NO 11 DISCRETE I/O BASE - MODULE 3 - CONTROL WIRING DIAGRAM - FOR REFERENCE
394	LS11-E 05	LIFT STATION NO 11 WETWELL FLOAT CONTROL - CONTROL WIRING DIAGRAM - FOR REFERENCE

DRAWINGS NOT INCLUDED IN THE LAND USE SET HAVE BEEN SHADED RED, BUT HAVE BEEN LEFT ON THE INDEX TO PROVIDE CONTEXT FOR DRAWING CROSS-REFERENCES.

FOR REFERENCE ONLY

DRAWING NUMBERING LEGEND

0	GENERAL DETAILS
100	SITE
200	PUMP STATION (WET WELL/DRY WELL)
300	GENERATOR BUILDING
400	ODOR CONTROL-AIR PHASE
500	ODOR CONTROL-LIQUID PHASE
600	LIFT STATION 11
900	TEMPORARY PUMP STATION

CALL TWO BUSINESS DAYS BEFORE YOU DIG 811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
AUGUST 2019

ERIC N. SCHEY — STATE OF WASHINGTON — 46417 — REGISTERED PROFESSIONAL ENGINEER

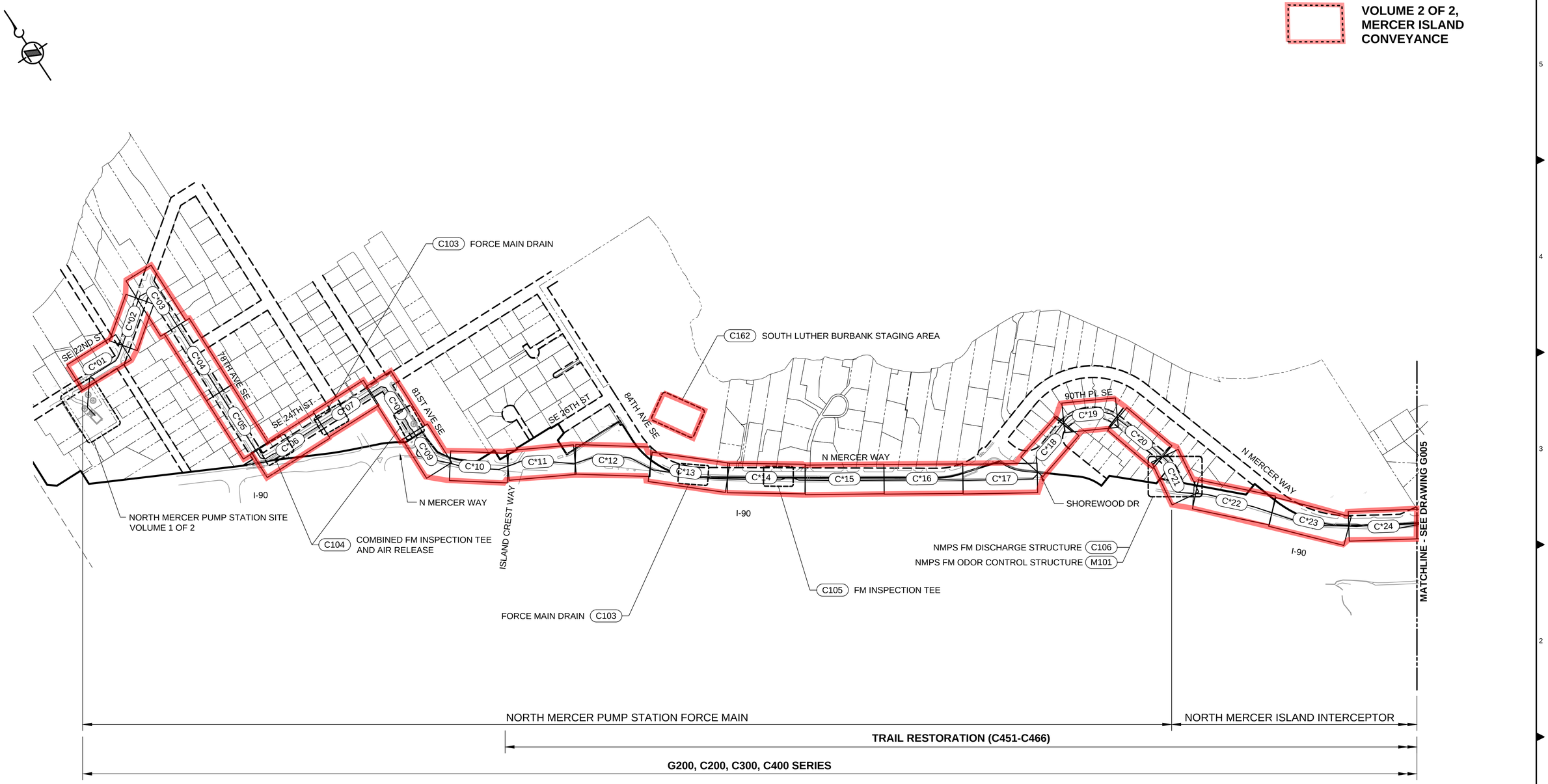
DESIGNED/DRAWN: E. SCHEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
DRAWING INDEX 2

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G003**
SHT NO / TOTAL: 003 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\125391\35-12539-16001\CAD\SheetFiles\333-E00306E13G003.dwg
PLOT DATE: 5/1/2019 4:06 PM
PLOTTED BY: Thomasy, Bryan



FOR REFERENCE ONLY

0 20 40 60
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: B. NELSON	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER:
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01340C20

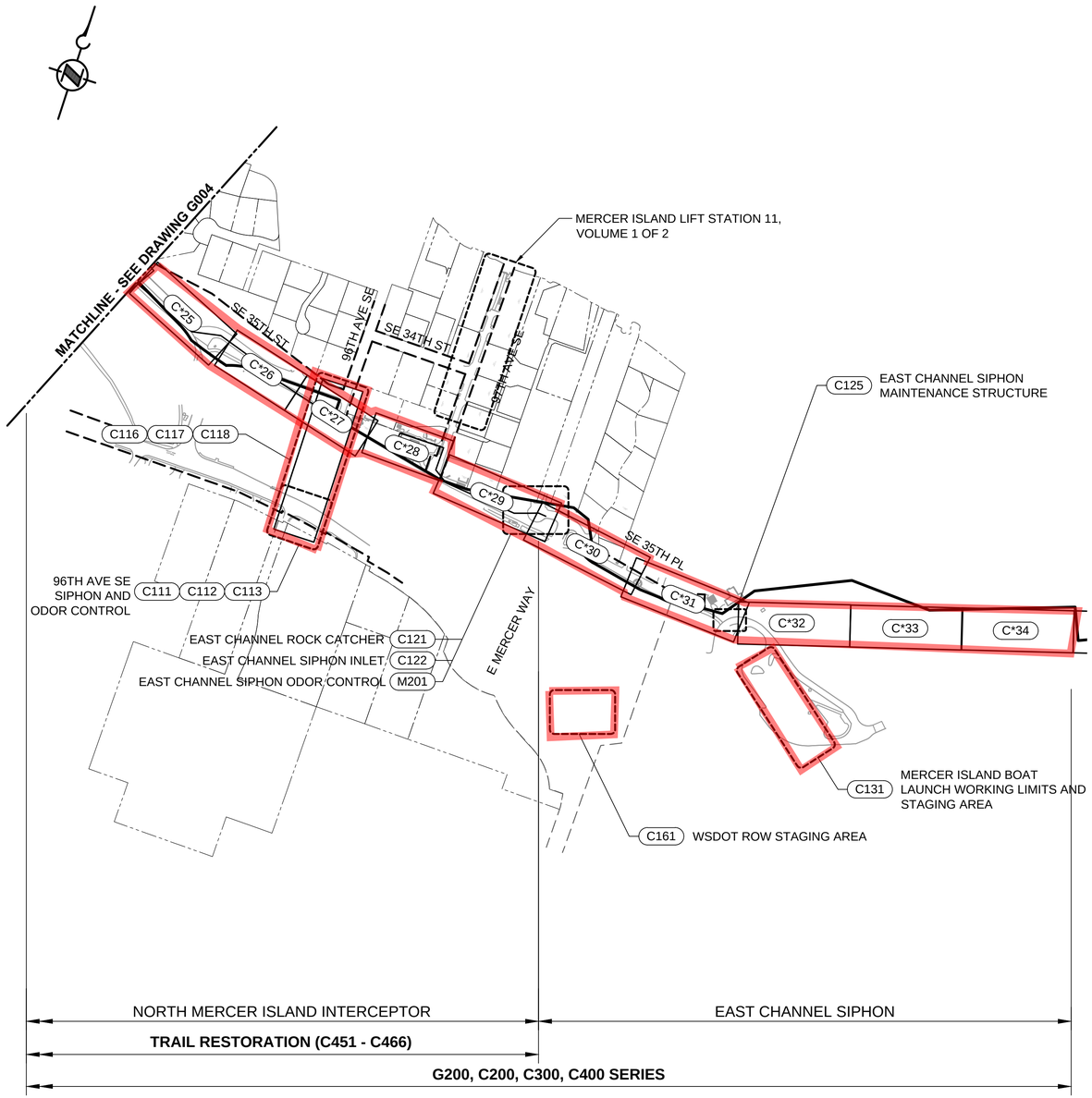
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND
ENATAI INTERCEPTOR UPGRADE - CONVEYANCE IMPROVEMENTS

KEY MAP
SHEET 1 OF 3

DCN:	TBD
DATE:	9/23/2019
PROJECT FILE NO:	TBD
DRAWING NO:	G004
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3K67200\700CADD\702CIVIL\Landuse Permit Drawings\Conveyance\E00306E13-PIPE-G004.dwg
PLOT DATE: 6/28/2019 12:54 PM
PLOTTED BY: D'Auria, Isaac



FOR REFERENCE ONLY

SCALE IN FEET 0 20 40 80

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: B. NELSON	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER:
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01340C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND
ENATAI INTERCEPTOR UPGRADE - CONVEYANCE IMPROVEMENTS
KEY MAP
SHEET 2 OF 3

DCN:	TBD
DATE:	9/23/2019
PROJECT FILE NO:	TBD
DRAWING NO:	G005
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\WJX67200\700CADD\702CIVIL\Landuse Permit Drawings\Conveyance\E00306E13-PIPE-G005.dwg
PLOT DATE: 6/28/2019 12:56 PM
PLOTTED BY: D'Auria, Isaac

GENERAL ABBREVIATIONS

A	AMPERE
AC	ASPHALTIC CONCRETE, ACOUSTIC
A/C	AIR CONDITIONING
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
ACC	AREA CONTROL CENTER
ACOU	ACOUSTIC
ACP	ASBESTOS CEMENT PIPE
ADD	ADDITION(AL)
ADF	AVERAGE DESIGN FLOW (AVERAGE DAY, PEAK MONTH)
ADPT	ADAPTER
AF	AIR FILTER
AFL	ABOVE FLOOR LEVEL
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMB	AMBIENT
AMD	AIR MONITORING DEVICE
ANC	ANCHOR
ANOD	ANODIZED
AP	ANCHOR POINT
APPX	APPROXIMATE(LY)
AR	AIR RETURN
ARCH	ARCHITECTURAL
AS	AIR SUPPLY
ASPH	ASPHALT
ASSY	ASSEMBLY
AUTO	AUTOMATIC
AV	ANGLE VALVE
AVE	AVENUE
B	BOTTOM
BAC	BACTERIOLOGICAL
BBE	BEVEL BOTH ENDS
BC	BIOFILTER CIRCULATION
BCOP	BARE COPPER
BCR	BEGINNING OF CURVE CENTER
BD	BOARD
BF	BLIND FLANGE
BGAT	BOOLEAN GATE
BHP	BRAKE HORSEPOWER
BKR	BREAKER
BLE	BEVEL LARGE END
BLDG	BUILDING
BLK	BLOCK
BM	BEAM, BENCHMARK
BO	BLOW OFF
BOD5	BIOCHEMICAL OXYGEN DEMAND, 5 DAY
BOP	BOTTOM OF PIPE, BACK OF PIPE
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRK	BREAK
BRZ	BRONZE
BSN	BAR SCREEN
BTU	BRITISH THERMAL UNIT
BULKHDS	BULKHEADS
BUV	BUTTERFLY VALVE
BV	BALL VALVE
C	CONDUIT, CRANE
CAB	DIRECT BURIAL CABLE, CABINET
CAF	COMBUSTION AIR FAN
CAP	CAPACITY
CB	CATCH BASIN
CC	COOLING COIL
C/C	CENTER TO CENTER
CCP	CONCRETE CYLINDER PIPE
CCSP	CONCRETE LINED AND COATED STEEL
CD	PIPE CEILING DIFFUSER, CHEMICAL DRAIN
CDF	CONTROL DENSITY FILL
CDR	CONDUCTOR
CDU	CONDENSING UNIT
CED	CEILING EXHAUST DIFFUSER
CER	CEILING EXHAUST REGISTER
CF	CUBIC FEET
CFG	CENTRIFUGE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFR	CODE OF FEDERAL REGULATIONS
CFS	CUBIC FEET PER SECOND
CH	CHANNEL
CHR	CHILLIER
CI	CAST IRON
CIP	CAST IRON PIPE, CAST IN PLACE
CJ	CONSTRUCTION JOINT
CK	CHECKER(ED)
CKPL	CHECKER PLATE
CKT	CIRCUIT
C/L	CENTERLINE
CL	CLEAR; CLEARANCE, CONDENSATE-LOW PRESSURE CLASS
CLG	CEILING, CHLORINE GAS
CLK	CLOCK
CLR	CLEAR
CM	MANUAL CONTROL STATION, CONDENSATE, MEDIUM PRESSURE
CMA	MANUAL-AUTO CONTROL STATION
CMC	CEMENT MORTAR COATED
CML	CEMENT MORTAR LINED
CMP	CORRUGATED METAL PIPE
CMPA	ASBESTOS PROTECTED CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CNTL	CONTROL
CO	CLEANOUT
CO 2	CARBON DIOXIDE
COF	COOLING AIR FAN
COL	COLUMN, COLLECTION
COM	COMMINUTOR, COMPACTOR
CON	CONVEYOR, CONNECTION
CONC	CONCRETE, CONCENTRIC
COND	CONDUCTOR, CONDENSATE, CONDITIONING
CONF	CONFERENCE
CONN	CONNECTION
CONT	CONTINUOUS, CONTINUATION
CONTD	CONTINUED
CONST	CONSTRUCTION
CP	COMPRESSOR, CENTER POINT, CONCRETE PIPE
CPEP	CORRUGATED POLYETHYLENE PIPE
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONDUIT RACK
CRF	CHEMICAL FEEDER
CREJ	CORRUGATED RUBBER EXPANSION JOINT
CSBC	CRUSHED SURFACING BASE COURSE
CSD	CEILING SUPPLY DIFFUSER
CSTC	CRUSHED SURFACING TOP COURSE
CTRL	CONTROL
CU	CONTROL UNIT, COPPER, CUBIC
CULV	CULVERT
CV	CONTROL VALVE
C/W	COMPLETE WITH
CW	COLD WATER (POTABLE)
CY	CUBIC YARD
D	DEGREE, DRYER, DEEP, DRAIN
DB	DUCT BANK, DOWEL BAR
DBH	DIAMETER AT BREAST HEIGHT
DCS	DISTRIBUTED CONTROL SYSTEM
DE	DENSITY METER
DEC	DECREASING
DEMO	DEMOLISH
DET	DETAIL
DF	DRINKING FOUNTAIN
DFD	DUCT FIRE DAMPER
DG	DOOR GRILLE
DI	DUCTILE IRON
DIAG	DIAGRAM
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DIS	DISPENSER
DISCH	DISCHARGE
DM	DAMPER MOTOR
DN	DOWN
DNR	DEPARTMENT OF NATURAL RESOURCES
DO	DISSOLVED OXYGEN, DITTO
DR	DRAIN ROCK, DRAINAGE, DOOR,DRIVE
DRG	DEGRATING
DT	DRIP TRAP, DRY TONS
DWF	DRY WEATHER FLOW
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
E	EAST, EMERGENCY
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EAU	ENGINE ALTERNATOR UNIT
EC	END OF CURVE
ECC	ECCENTRIC
ED	EXTRACTOR DAMPER, EQUIPMENT DRAIN
EE	EACH END, ENGINE EXHAUST
EF	EACH FACE,EXHAUST FAN
EFF	EFFLUENT
EG	EXHAUST GRILLE, EMERGENCY GENERATOR
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION, EXHAUST LOUVER
ELECT	ELECTRICAL
ELL	ELBOW
EMBD	EMBEDDED
EOL	ELBOLET
EOP	END OF PIPE, EDGE OF PAVEMENT
E/P	ELECTRIC/PNEUMATIC
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPR	EVAPORATOR
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EXISTING SURFACE, EQUALIZED SLUDGE
ESMT	EASEMENT
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EWT	ENTERING WATER TEMPERATURE
EWT&B	EACH WAY TOP AND BOTTOM
EX	EXTRA
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR
F	FAHRENHEIT, FACE, FUSE(D), FAN, FLOAT
FA	FOUL AIR
FAB	FABRICATE(D), FABRICATION
FAI	FRESH AIR INTAKE
FB	FLAT BAR, FLOOR BEAM
FC	FAIL CLOSED
FCL	FREE CHLORINE
FCO	FLOOR CLEANOUT
FCR	FINE CRUSHED ROCK
FD	FLOOR DRAIN, FOUNDATION DRAIN
FDC	FLEXIBLE DUCT CONNECTOR
FDR	FEEDER
FE	FLOWMETER
FF	FLAT FACE, FINISH FLOOR
F/F	FACE TO FACE
FG	FINISHED GRADE
FH	FIRE HYDRANT,FLATHEAD
FHD	FLATHEAD
FIN	FINISHED
FL	FLOOR, FLOW LINE
FLC	FLOCCULATOR
FLEX	FLEXIBLE
FLG('D)	FLANGE(D), FLAP GATE
FLP	FLUID POWER UNIT
FLR	FLOOR
FLT	FILTER, FILTRATE
FM	FORCE MAIN
FMH	FLEXIBLE METAL HOSE
FMX	FLASH MIXER
FND	FOUNDATION
FO	FAIL OPEN
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FILTER PRESS, FIRE PROTECTION
FPC	FLEXIBLE PIPE COUPLING
FPC-T	FPC TO TAKE TENSION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FRAME
FRP	FIBERGLASS REINFORCED PIPE
FS	FAR SIDE, FLOW SWITCH, FIRESTAT, FLOTATION SLUDGE
FT	FLASH TANK, FEET
FTG	FOOTING
FURRG	FURRING
FUT	FUTURE
FZS	FREEZESTAT
G	ACTUATED GATE, GUTTER ELEVATION
GA	GAGE, GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK, GRADE BEAM
GBV	GLOBE VALVE
GD	GUARD
GDR	GRINDER
GEN,GEN'L	GENERAL
GFI	GROUND FAULT INTERRUPTER
GI	GALVANIZED IRON
GL	GLASS
GND	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GRD	GRADE
GRT	GROUT
GRTG	GRATING
GSKT	GASKET
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GWT	GROUND WATER TABLE
GYP	GYPSUM
H	HIGH, HORIZONTAL, HOIST
H/A	HAND AUTO
HARDBD	HARDBOARD
HC	HEATING COIL, HANDICAP
HD	HEAVY DUTY
HDOT	HEAVY DUTY OILTIGHT
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HDWR	HARDWARE
HEX	HEXAGONAL, HEAT EXCHANGER
HG	MERCURY, HAND GRADE
HH	HANDHOLE
HM	HOLLOW METAL
HMA	HOT MIX ASPHALT
HOA	HAND-OFF-AUTO
HOR,HORIZ	HORIZONTAL
HP	HIGH PRESSURE, HIGH POINT, HORSEPOWER
HPEL	HIGHPOINT ELEVATION
HR	HANDRAIL, HEAT RESERVOIR, HOUR
HRB	HEAT RESERVOIR FLOW
HRS	HOURS, HEAT RESERVOIR SUPPLY
HRF	HEAT RESERVOIR FLOW
HSS	HIGH SIGNAL SELECT
HT	HEIGHT, HEAT TRACER TAPE
HTL	HALF TIDE LEVEL
HTR	HEATER
HTV	HIGH TEMPERATURE VENT
HV	HAND VALVE
H/V	HEATING AND VENTILATING
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HWTR	HIGH WATER
HYD	HYDRAULIC
HYDT	HYDRANT
IBC	INTERNATIONAL BUILDING CODE
ICN	INCINERATOR
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IL	INDICATING LAMP, INSTRUMENT LOOP
INF	INFLUENT
INSUL	INSULATE(D), INSULATION
INST	INSTANTANEOUS
INT	INTERIOR, INTERSECTION
INTER	INTERMEDIATE
INTLK	INTERLOCK
INV	INVERT, INVERT ELEVATION
INV EL	INVERT ELEVATION
I/O	INPUT/OUTPUT
IRRIG	IRRIGATION
IT	INSTRUMENT TAP
JB	JUNCTION BOX
JCT	JUNCTION
JST	JOIST
JT(S)	JOINT(S)
K	KIP (1,000 POUNDS)
KCDTRSD	KING COUNTY DEPT. OF TRANS. ROAD SERVICES DIV.
KCSWDM	KING COUNTY SURFACE WATER DESIGN MANUAL
KD	KNOCK OUT
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVAR
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE LATERAL, LATITUDE
LB(S)	POUND(S)
LEL	LOWER EXPLOSIVE LIMIT
LEV	LEVEL
LF	LINEAL FEET
LFBR	LINEAR FEET BASEBOARD
LG	LONG
LH	LEFT HAND
LJ	LAP JOINT
LLV	LONG LEG VERTICAL
LO	LUBRICATING OIL
LOS	LOCKOUT STOP
LP	LOW PRESSURE
LPEL	LOW POINT ELEVATION
LS	LIMIT SWITCH
LV	LOW VOLTAGE, LOUVER, LABORATORY-VACUUM
M	MENS, MOTOR, METER
MA	MILLIAMPERE
MAL,	MAINTENANCE
MALL	MALLEABLE
MAN	MANUAL
MAT'L	MATERIAL
MAX	MAXIMUM
MBH	THOUSAND BTUs PER HOUR
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILLS
MCU	MASTER CONTROL UNIT
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MEE	MISCELLANEOUS ELECTRICAL EQUIPMENT
MFR	MANUFACTURER
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MG/L	MILLIGRAMS PER LITER
MGR	MANAGER
MH	MAINTENANCE HOLE
MHHW	MEAN HIGH HIGH WATER
MI	MALLEABLE IRON
MIE	MISCELLANEOUS INSTRUMENTATION EQUIPMENT
MILSPC	MILITARY SPECIFICATION
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MILLILITER, MIXED LIQUOR
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MME	MISCELLANEOUS MECHANICAL EQUIPMENT
MO	MOTOR OPERATOR, MASONRY OPENING
MOD	MODULUS
MON	MONUMENT
MPH	MILES PER HOUR
MTL	METAL
MTR	MOTOR
MUL/DIV	MULTIPLY/DIVIDE
MV	MUD VALVE, MILLIVOLT
MXR	MIXER
N	NEUTRAL, NORTH
NA	NONAUTOMATIC, NOT APPLICABLE
NaOH	SODIUM HYDROXIDE
NC	NORMALLY CLOSED
NE	NORTHEAST
NEG	NEGATIVE
NF	NONFUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NOM	NOMINAL
NP	NAMEPLATE
NPSH	NET POSITIVE SUCTION HEAD
NPT	NATIONAL PIPE THREAD
NRS	NONRISING STEM
NS	NEAR SIDE
NU	NOT USED
NW	NORTHWEST
OA	OVERALL
OAI	OUTSIDE AIR INTAKE
OB	OPPOSED BLADE
OC	ON CENTER
OF	OUTSIDE FACE, OVERFLOW
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
OL	OVERLOAD
O/O	OUT TO OUT
OPNG	OPENING
ORF	ODOR REMOVAL FILTER
ORP	OXIDATION REDUCTION POTENTIAL
ORT	ODOR REMOVAL TOWER
OSA	OUTSIDE AIR
OSC	ODOR SCRUBBER
O 2	OXYGEN
P	PUMP, PAVEMENT ELEVATION, PAINT
PAR	PARALLEL, PARAGRAPH
PBE	PLAIN BOTH ENDS
PC	PIPE COUPLING, PRECAST, PIECE
	POINT OF CURVATURE
P/C	PLAIN CONCRETE (NO REINFORCING STEEL)
PCC	PLANT CONTROL CENTER
PCHV	PINCH VALVE
PCP	PLAIN CONCRETE PIPE
PCS	PIECES
PC-T	PIPE COUPLING TO TAKE TENSION
PCU	PHOTOELECTRIC CONTROL
PE	PLAIN END, POPULATION EQUIVALENT, PRIMARY EFFLUENT
P/E	PNEUMATIC/ELECTRIC
PEN	PENETRATION
PERF	PERFORATED
PF	POWER FACTOR, PRESSURIZATION FLOW
PG	PRESSURE GAGE
PH	PHASE
PJF	PREMOLDED JOINT
POC	POINT ON CURVE
POI	PROPORTIONAL PLUS INTEGRAL CONTROL, PRESSURE INDICATOR, POINT OF INTERSECTION (PI)
PID	PROPORTIONAL PLUS INTEGRAL PLUS DERIVATIVE CONTROL
PK	PEAK
PL	PLATE, PIPELINE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PLCS	PLACES
PLE	PLAIN LARGE END
PLY	PLYWOOD
PLWD	PLYWOOD
PO4	PHOSPHATE
POE	PLAIN ONE END
POP	PNEUMATIC OPERATOR
PP	POWER POLE
PPD	POUNDS PER DAY
PPH	POUNDS PER HOUR
PRD	PRESSURE RELIEF DAMPER
PRES	PRESSURE
PREFIN	PREFINISHED
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REGULATING (REDUCING) (RELIEF) VALVE
PS	PRESSURE SWITCH, PRESSURE SENSOR, PRIMARY SLUDGE
PSD	PERFORATED STORM DRAIN
PSE	PLAIN SMALL END
PSF	POUNDS PER SQUARE FOOT
PSH	PRESSURE SWITCH HIGH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PSL	PIPE SLEEVE, PRESSURE SWITCH LOW
PT	POINT, POINT OF TANGENCY
PV	PLUG VALVE, PROCESS VARIABLE
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVL	PRESSURE VESSEL
PVT	PAVEMENT
Q	RATE OF FLOW
QCPL	QUICK COUPLING
R	RADIUS, RISER
RA	RETURN AIR
RAD	RADIUS
RAF	ROLL TYPE AIR FILTER
R/C	REINFORCED CONCRETE
RCDR	RECORDER
RCP	REINFORCED CONCRETE PIPE
RCR	RECORDER
RD	ROOF DRAIN, ROAD
REC	RECEIVER, RECESSED
RECD	RECEIVED
RECEPT	RECEPTIONIST
RECIRC	RECIRCULATION
RECP	RECEPTACLE
RED	REDUCE(R)
REF	REFERENCE
REG	REGULATOR
REINF	REINFORCED (ING)
REL	RELAY
REM	REMOVABLE
REQ'D	REQUIRED
RESIL	RESILIENT
RE-STL	REINFORCING STEEL
REV	REVISED(ION)
RF	RAISED FACE
RG	RETURN GRILLE
RGS	RIGID GALVANIZED STEEL
RH	RIGHT HAND
RL	REDUCED LEVEL
RM	ROOM
RND	ROUND
RO	ROUGH OPENINGS
RP	RADIUS POINT
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RT	RIGHT
RTRP	REINFORCED THERMOSET PLASTIC
RTU	REMOTE TERMINAL UNIT
RV	RELIEF VALVE
R/W	RIGHT OF WAY
RWL	RAINWATER LEADER
RWP	RAINWATER PIPE
S	SOUTH, SOLENOID VALVE, SLOPE
	SILENCER
SA	SUPPLY AIR, SERVICE AIR
SB	SIGNAL BOX
SCB	SEGMENTAL CONCRETE BLOCK
SCD	SCRUBBER DRAIN
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCR'D	SCREWED
SD	SPLITTER DAMPER, SMOKE DETECTOR, SANITARY DRAIN
SE	SOUTHEAST, SECONDARY EFFLUENT,SPOT ELEVATION
SEC	SECOND, SECTION
SEP	SEPARATOR, SEPTAGE
SF	SQUARE FOOT, SUPPLY FILTER
SG	SUPPLY GRILLE, SLUICE GATE
SHT	SHEET
SI	SPEED INCREASER
SIM	SIMILAR
SL	SLOPE
SLG	SLIDE GATE
SN	SCREEN, SUPERNATANT
SO2	SULFUR DIOXIDE
SOL	SOCKOLET
SP	SPACE, SET POINT, STATIC PRESSURE, STOP, STAND PIPE
SO	SLIP-ON
SPCS	SPACES
SPD	SPEED
SPEC(S)	SPECIFICATION(S)
SPG	SPACING
SPL	SPLICE
SPT	SOUND POWERED TELEPHONE
SR	SPEED REDUCER
SRG	SPLIT-RANGING
SRT	SOLIDS RETENTION TIME
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL, SPEED SELECTOR, SUSPENDED SOLIDS, SECONDARY SLUDGE, SANITARY SEWER
SSC	SOLID STATE CONTROLLER, SECONDARY SCUM
SSFH	STAINLESS STEEL FLAT HEAD
SSFM	SANITARY SEWER FORCE MAIN
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	START, STREET, STRUCTURE
STA	STATION, STARTING AIR
STD	STANDARD, STORM DRAIN, STUD
STGA	STARTING AIR
STL	STEEL
STOR	STORAGE
STR	STRONG
STRUCT	STRUCTURAL
SUB	SUBSTITUTE, SUBSTATION
SUPERV	SUPERVISOR
SUPT	SUPPORT
SURF	SURFACE
SV	SOLENOID VALVE
SVI	SLUDGE VOLUME INDEX
SW	SOUTHWEST, SOCKETWELD, SEAL WATER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR, SWAGE
SWMMWW	STORM WATER MANAGEMENT MANUAL OF WESTERN WASHINGTON
SYM	SYMMETRICAL
T	TANGENT, TREAD, TANK, TELEPHONE
TB	TERMINAL BOX, TOP AND BOTTOM
T/B	TOP OF BANK
TBN	TURBINE
T/C	TOP OF CURB
TCL	TOTALLY CLOSED
TCP	TEMPERATURE CONTROL PANEL
TD	TIME DELAY RELAY, TANK DRAIN
TE	TOTALLY ENCLOSED,THICKENER EFFLUENT
TEMP	TEMPERED, TEMPORARY
TERR	TERRAZZO
TESCP	TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN
TFR	TRANSFORMER
TH	THERMOMETER
THD'D	THREADED
THRESH	THRESHOLD
THRU	THROUGH
TLE	THREAD LARGE END
TKN	TOTAL KJEHDAHL NITROGEN
TOA	TEST-OFF-AUTO
TOC	TOP OF CONCRETE (CURB)
TOE	THREADED ONE END
TOG	TOP OF GRATING
TOL	THREDOLET
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TANGENT POINT, TRAP PRIMER
TPD	TONS PER DAY
TPG	TOPPING
TPS	TEMPORARY PUMP STATION
TPLX	TRIPLEXED
TR	TIMING RELAY, STAIR TREAD
TRANS	TRANSFORMER,TRANSFER
TRM	TRANSMITTER
TRN	TRANSDUCER
TRS	TRANSFER SWITCH
TS	TEMPERATURE SWITCH, TUBE STEEL, TRANSFER SLUDGE, TOTAL SOLIDS
TSE	THREADED SMALL END
TSS	TOTAL SUSPENDED SOLIDS
TV	THERMOSTATIC VALVE
TW	THERMOWELL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UG	UNDERGROUND
UH	UNIT HEATER
UL	ULTIMATE LOAD
UON/UNO	UNLESS OTHERWISE NOTED
U/P	UTILITY POLE
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UTILITY STATION
U/S	UNDERSIDE
USS	UNIT SUBSTATION
UTIL	UTILITIES
UVB	ULTRAVIOLET LAMP BANK
V	VALVE, VENT, VOLTS, VERTICAL, VAULT
VAC	VACUUM, VOLTS ALTERNATING CURRENT
VAR	VARIES, VARIABLE
VB	VALVE BOX
VC	VERTICAL CURVE, CHEMICAL VENT
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VDC	VOLTS DIRECT CURRENT
VERT(S)	VERTICAL(S)
VFT	VACUUM FILTER
VP	VAPOR PRESSURE, VACUUM PUMP, PETROLEUM VENT
VPI	VERTICAL POINT OF INTERSECTION
VSC	VARIABLE SPEED COUPLING
VTR	VENT THROUGH ROOF
VV	VARIABLE VOLUME BOX
W	WEST, WIDE, WOOD, WOMENS, WASHER, WEST, WATER,WASTE
W/	WITH
WAS	WASTE ACTIVATED SLUDGE
WC	WATER COLUMN
WCO	WALL CLEANOUT
WEG	WALL EXHAUST GRILLE
WER	WALL EXHAUST REGISTER
WF	WIDE FLANGE
WG	WASTE GAS, WATER GAGE
WI	WROUGHT IRON
WL	WATER LINE
WM	WATER METER, WATER MAIN
W/O	WITHOUT
WOL	WELDOLET
WP	WORKING POINT
WPJ	WEAKENED PLANE JOINT
WN	WELD NECK
WNG	WASHINGTON NATURAL GAS
WR	WASHROOM
WS	WATER SURFACE, WATER STOP
WSDOT	WASHINGTON DEPT. OF TRANSPORTATION
WSP	WELDED STEEL PIPE
WSR	WALL SUPPLY REGISTER, WASHER
WSTP	WATERSTOP
WT	WATERTIGHT, WEIGHT
WWF	WELDED WIRE FABRIC, WET WEATHER FLOW
X	SPARE CONDUIT (SUFFIX LETTER), TIMES
XDCR	TRANSDUCER
XFMR	POWER TRANSFORMER
XMTR	TRANSMITTER
XLP	CROSS LINKED POLYETHYLENE
XP	EXPLOSION PROOF
YCO	YARD CLEANOUT
YR	YEAR
ZS	POSITION SWITCH
#	NUMBER, POUNDS
&	AND
@	AT
Ø	DIAMETER, PHASE
△	ANGLE OF DEFLECTION
%	PERCENT

GENERAL NOTES:

1. ADDITIONAL ABBREVIATIONS ARE AS DEFINED IN THE NATIONAL CAD STANDARD MANUAL, VOLUME 2.

FOR REFERENCE ONLY

CALL TWO BUSINESS DAYS BEFORE YOU DIG 811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
GENERAL ABBREVIATIONS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G006**
SHT NO / TOTAL: 006 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\125309\135+125309-16001\CAD\SheetFiles\333-E00306E13C005.dwg
PLOT DATE: 4/27/2019 12:08 PM
PLOTTED BY: Schey, Eric

GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WASTEWATER TREATMENT DIVISION (KCWTD) AND THE CITY OF MERCER ISLAND.

2. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL CALL 811 PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND AVOIDING DAMAGE TO ALL UTILITIES.

3. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. ANY CHANGES REQUIRED SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE AND KCWTD PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT.

4. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION.

5. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CITY OF MERCER ISLAND, THE ENGINEER, KING COUNTY, AND THE CONTRACTOR.

6. A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.

8. LANDSLIDE APPLICATION REFERENCE: PAE 19-001, CAO 19-020.

FOR REFERENCE ONLY

CALL TWO
BUSINESS DAYS
BEFORE YOU DIG
811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: K. GOSS	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
GENERAL NOTES

DCN:	
DATE:	02/28/2020
PROJECT FILE NO:	
DRAWING NO:	**G008**
SHT NO / TOTAL	/ 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\125391\135-12539-16001\CAD\SheetFiles\333-E00306E13G007.dwg
PLOT DATE: 3/18/2020 2:40 PM
PLOTTED BY: Morris, Richard

SITE

PROJECT DESCRIPTION

NORTH MERCER PUMP STATION-THE NORTH MERCER PUMP STATION SERVES NORTH MERCER ISLAND, WITH FLOW CONTRIBUTIONS FROM THE CENTRAL BUSINESS AREA SOUTH OF INTERSTATE 90 (I-90) AND FROM RESIDENTIAL AREAS AROUND THE PUMP STATION AND ALONG THE LAKE WASHINGTON SHORELINE TO THE NORTH. THE PUMP STATION RECEIVES GRAVITY FLOW FROM THE WEST TRUNK AND DISCHARGES TO THE NORTH MERCER FORCE MAIN.

20-YEAR PEAK FLOWS HAVE BEEN PROJECTED TO EXCEED THE STATION'S FIRM CAPACITY OF 7 TO 8 MILLION GALLONS PER DAY (MGD) BY 2020. THE PROJECTED PEAK FLOW WILL EXCEED THE RATED THREE-PUMP CAPACITY OF 9 MGD BY 2040. THE UPGRADED PUMP STATION WILL INCLUDE THREE PUMPS WITH 200-HP MOTORS SITED WITHIN THE EXISTING PUMP STATION FOOTPRINT. A NEW BUILDING WILL HOST A NEW GENERATOR, BATHROOM, ASSOCIATED ELECTRICAL AND INSTRUMENTATION AND CONTROL EQUIPMENT.

CITY OF MERCER ISLAND LIFT STATION 11-THE CITY OF MERCER ISLAND'S LIFT STATION 11 DISCHARGES TO THE EAST TRUNK. LOCATED IN FRUITLAND LANDING PARK AT THE END OF 97TH AVENUE SE, THE STATION IS PART OF THE CITY OF MERCER ISLAND'S LAKE LINE SEWER.

FLOWS FROM LIFT STATION 11, LOCATED ALONG THE SHORELINE AT 97TH AVENUE SE, WILL BE DIRECTED TO THE NEW NORTH MERCER INTERCEPTOR ALONG THE I-90 TRAIL. SINCE FLOWS WILL BE DIRECTED UPHILL RATHER THAN TOWARD THE LAKE LINE, LIFT STATION 11 WILL REQUIRE INCREASED HEAD CAPACITY. RATHER THAN REPLACEING EXISTING DRY-PIT PUMPS, THE CITY HAS ELECTED TO CONVERT THE STATION TO SUBMERSIBLE PUMPS. THEREFORE WORK AT LIFT STATION 11 INCLUDES MODIFICATIONS TO CONVERT THE EXISTING DRY WELL TO A WET WELL AND ASSOCIATED STRUCTURAL, ELECTRICAL AND I&C MODIFICATIONS.

NORTH MERCER PUMP STATION DETAILED DESCRIPTION
PUMP STATION

MOST OF THE PROPOSED WORK INVOLVES REPLACEMENT OF PUMPING EQUIPMENT. THE OCCUPANCY CLASSIFICATION (UNDER INTERNATIONAL EXISTING BUILDING CODE (IEBC)) WILL REMAIN U-UTILITY, AND THE BUILDING WILL REMAIN PREDOMINANTLY UNOCCUPIED.

INDIVIDUAL PUMP CAPACITY REQUIREMENTS TO MEET THE DESIGN FLOW CRITERIA ARE AS FOLLOWS:

- WITH A 2060 5-YEAR PEAK FLOW OF 7.43 MGD, EACH PUMP MUST OPERATE AT A FLOW RATE OF 3.72 MGD IN ORDER FOR THE PUMP STATION TO MEET THE FIRM CAPACITY REQUIREMENT.
- WITH A 2060 20-YEAR PEAK FLOW OF 10.53 MGD, EACH PUMP MUST OPERATE AT A FLOW RATE OF 3.51 MGD IN ORDER FOR THE PUMP STATION TO MEET THE PEAK CAPACITY REQUIREMENT.

THE SELECTED DESIGN PUMP CAPACITY IS 3.72 MGD FOR EACH OF THE THREE NEW PUMPS TO BE INSTALLED. EACH WILL BE A 200-HP PUMP WITH A DESIGN HEAD OF 215 FEET.

WET WELL

ALONG WITH INSTALLATION OF NEW PUMP STATION SUCTION PIPING, AN OGEE RAMP, FILLETS AND OTHER NEW CONCRETE FILL WILL BE INSTALLED IN THE EXITING WET WELL TO FACILITATE PUMP OPERATION AND WET WELL CLEANING. THE EXISTING METAL ACCESS PLATFORM WILL BE REPLACED WITH AN FRP PLATFORM AND THE EXISTING CHEMICAL ODOR CONTROL SYSTEM WILL BE REPLACED WITH A CARBON VESSEL AND FAN LOCATED IN THE SERVICE YARD.

FORCE MAIN SYSTEM

NEW 18 AND 16 INCH FORCE MAINS EXIT THE NORTH SIDE OF THE EXISTING STATION AND DISCHARGE IN A STRUCTURE LOCATED IN THE CUL-DE-SAC AT THE END OF 90TH PLACE. PROVISIONS IN THE NEW STATION HEADER WILL ALLOW FOR THE LAUNCH OF PIGS TO CLEAN BOTH FORCE MAINS. THE DISCHARGE STRUCTURE WILL COMBINE BOTH FORCE MAIN PIPES INTO A SINGLE GRAVITY SEWER PIPE AND BE LINED TO PREVENT CORROSION. PROVISIONS WILL BE INSTALLED INSIDE THE STRUCTURE TO FACILITATE CAPTURE AND REMOVAL OF FORCE MAIN PIGS.

INFLUENT SYSTEM

THE EXISTING 48 AND 30 INCH INFLUENT SEWER WILL BE USED TO STORE AND DIVERT FLOWS DURING PUMP STATION IMPROVEMENTS.

LIFT STATION 11 DETAILED DESCRIPTION

LIFT STATION 11 WILL BE UPGRADED TO ACCOMMODATE THE HIGHER HEAD ASSOCIATED WITH PLANNED PIPELINE IMPROVEMENTS. THE EXISTING LIFT STATION FORCE MAIN WILL ALSO BE REHABILITATED WITH A CURED-IN-PLACE PIPE (CIPP) METHOD, AND THE FORCE MAIN WILL BE EXTENDED WITH A NEW 10-INCH DIAMETER PIPELINE ALONG 97TH AVE SE TO CONNECT TO THE NEW COUNTY INTERCEPTOR SYSTEM.

SUMMARY OF GOVERNING REGULATIONS

CODE ENFORCEMENT JURISDICTION:	CITY OF MERCER ISLAND, WA
ZONING JURISDICTION:	CITY OF MERCER ISLAND, WA

CODE:	TITLE:	EDITION:	ADOPTED:
BUILDING:	INTERNATIONAL BUILDING CODE	2015	-
ACCESSIBILITY:	INTERNATIONAL BUILDING CODE	2015	-
MECHANICAL:	INTERNATIONAL MECHANICAL CODE	LATEST	
ELECTRICAL:	UNIFORM ELECTRICAL CODE	LATEST	
PLUMBING:	UNIFORM PLUMBING CODE & IBC CH 29	LATEST	
FIRE PREVENTION:	INTERNATIONAL FIRE PREVENTION CODE	LATEST	
ZONING:	CITY OF MERCER ISLAND - TITLE 19	LATEST	
ENERGY:	WASHINGTON STATE ENERGY CODE	2015	

LEGAL DESCRIPTION

LOTS 11 AND 12, EXCEPT THE EAST 145.00 FEET THEREOF, BLOCK 24, MCGILVRA'S ISLAND ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE 58, RECORDS OF KING COUNTY, WASHINGTON

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

NOTE TO REVIEWER

COUNTY IS CURRENTLY WORKING ON LOT CONSOLIDATION WITH CITY OF MERCER ISLAND. WILL UPDATE LEGAL DESCRIPTION AND PARCEL NUMBERS ONCE CONSOLIDATION HAS BEEN APPROVED.

ASSESSORS PARCEL NUMBER 5315101946 & 531510945

TITLE

PROJECT ADDRESS:	7631 SE 22nd STREET, MERCER ISLAND, WA
TITLE VESTED IN:	MUNICIPALITY OF METROPOLITAN SEATTLE, A MUNICIPAL CORPORATION OF THE STATE OF WASHINGTON

RELATED PERMITS

PERMIT:		

1. FEDERAL
   a. U.S. ARMY CORPS OF ENGINEERS: SECTION 10/404 - NATIONWIDE PERMIT 12, UTILITY LINE ACTIVITIES
   b. ENDANGERED SPECIES ACT (ESA) COMPLIANCE
   c. TRIBAL COORDINATION - MUCKLESHOOT INDIAN TRIBE
   d. SECTION 106 OF THE NATIONAL HISTORIC PRESERVATION ACT (NHPA)
2. WASHINGTON STATE
   a. DEPARTMENT OF ECOLOGY - SECTION 401 WATER QUALITY CERTIFICATION (WQC)
   b. DEPARTMENT OF ECOLOGY - NPDES CONSTRUCTION STORMWATER GENERAL PERMIT
   c. DEPARTMENT OF ECOLOGY - COASTAL ZONE MANAGEMENT CONSISTENCY
   d. STATE ENVIRONMENTAL POLICY ACT (SEPA) REVIEW
   e. DEPARTMENT OF FISH AND WILDLIFE - HYDRAULIC PERMIT APPROVAL (HPA)
3. LOCAL AGENCIES
   a. KING COUNTY INDUSTRIAL WASTEWATER DISCHARGE AUTHORIZATION
   b. KING COUNTY EXECUTIVE PROCEDURES FOR THE TREATMENT OF CULTURAL RESOURCES
   c. RIGHT OF WAY PERMIT (ROW) - CITY OF MERCER ISLAND
   d. GRADING PERMIT - CITY OF MERCER ISLAND
   e. CRITICAL AREAS PERMIT - CITY OF MERCER ISLAND
   f. STORMWATER PERMIT - CITY OF MERCER ISLAND
   g. SHORELINE SUBSTANTIAL DEVELOPMENT PERMIT (SSDP) - CITY OF MERCER ISLAND
   h. SHORELINE CONDITIONAL USE PERMIT (CUP) - CITY OF MERCER ISLAND
   i. BUILDING PERMITS - CITY OF MERCER ISLAND
   j. TREE PERMIT - CITY OF MERCER ISLAND

NOTE TO REVIEWER

WILL UPDATE WITH PERMIT NUMBERS ONCE RECIEVED

BUILDING

LOCATION ON PROPERTY - TEXT

MINIMUM LOT SIZE: -
REQUIRED YARDS: -
MAXIMUM LOT COVERAGE: -
LANDSCAPING CATEGORY: -
SIGN CATEGORY: -
REQUIRED PARKING: -
-

IBC CHAPTER TWENTY NINE

PLUMBING SYSTEMS

NUMBER OF REQUIRED FIXTURES-
WATER CLOSETS REQUIRED: -
PROPOSED: -
LAVATORIES REQUIRED: -
PROPOSED: -
DRINKING FOUNTAIN REQUIRED: -
PROPOSED: -
SERVICE SINKS REQUIRED: -
PROPOSED: -

WASHINGTON STATE ENERGY CODE 2015 EDITION

ENERGY CODE

CONDITIONED SPACES: -
WET WELL: -
DRY WELL: -
DOORS: -
WINDOWS: -
EXTERIOR CMU WALLS: -
EXTERIOR METAL STUD WALLS: -
ROOF: -

WASHINGTON STATE WAC CHAPTER 173-60

ACOUSTIC

TABLE 173-60.040: MAXIMUM ENVIRONMENTAL NOISE LEVELS
SOURCE PROP=CBD ZONE CLASS C EDNA
RECEIVE PROP=CBC ZONE CLASS C EDNA
PROPOSED: PERMISSIBLE PROPERTY LINE LEVELS NTE
60 DBA DAYTIME AND 50 DBA NIGHTTIME

NOTE TO REVIEWER

WILL UPDATE CODE REFERENCES FOR 100%

FOR REFERENCE ONLY

CALL TWO
BUSINESS DAYS
BEFORE YOU DIG
811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LEGAL AND PROJECT DESCRIPTION, CODE SUMMARY

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G009**
SHT NO / TOTAL: 009 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\12539\135-12539-16001\CAD\SheetFiles\333-E003006E13C008.dwg
PLOT DATE: 5/1/2019 11:07 AM
PLOTTED BY: Schey, Eric

NOTES:

1. BASE MAP WAS PROVIDED BY 1 ALLIANCE GEOMATICS, LLC.
2. THIS SHEET IS FOR GENERAL INFORMATION AND REFERENCE FOR THE PROJECT SITE LOCATION.
3. PARCEL SIZE EQUALS 37,265 SQUARE F

SE 22ND STREET

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

1 ALLIANCE GEOMATICS SURVEYING & MAPPING
MBE/DBE

TETRA TECH
JACOBS

NO	REVISION DESCRIPTION	BY	APVD	DATE

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. VANBUSKIRK	SCALE: 1" = 20'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

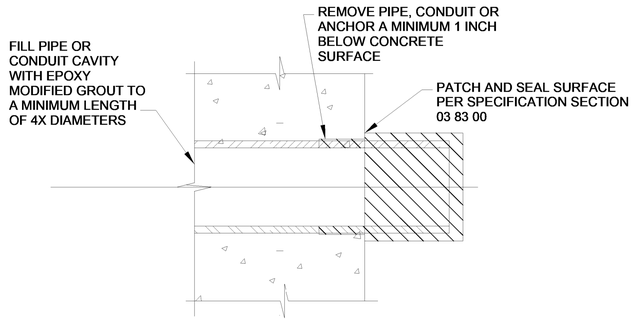
TOPOGRAPHIC SURVEY

DCN:
DATE: 03/9/2020
PROJECT FILE NO:
DRAWING NO: G012
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-G012.dwg
PLOT DATE: 9/26/2019 10:03 PM
PLOTTED BY: Aurio, Isaac

GENERAL DEMOLITION NOTES:

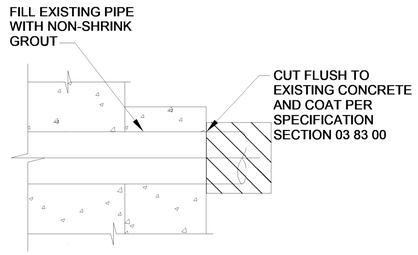
1. DEMOLITION DRAWINGS SHOW FINAL DEMOLITION OF EXISTING FEATURES. CONTRACTOR SHALL DEVELOP A CONSTRUCTION SEQUENCING SUBMITTAL REFLECTING PROPOSED SEQUENCING OF DEMOLITION THAT MAINTAINS EXISTING OPERATIONS AT THE SPECIFIED LEVEL OF SERVICE. SEE SECTION 01 88 00.
2. WHERE EQUIPMENT IS SHOWN TO BE REMOVED, ALSO REMOVE ASSOCIATED CONDUIT, PIPING AND MOUNTING HARDWARE, UNLESS SPECIFICALLY NOTED ELSEWHERE TO MAINTAIN THEM.
3. ALL CONDUIT, MOUNTING HARDWARE, AND PIPING LESS THAN FOUR INCHES SHALL BE REMOVED (CHIPPED AND CUT, OR BURNED) A MINIMUM OF 1" BELOW THE SURFACE OF THE CONCRETE AND PATCHED WITH EPOXY MODIFIED GROUT.
4. MAINTAIN EXISTING FIRE EXTINGUISHERS AND SAFETY EQUIPMENT THROUGHOUT CONSTRUCTION, UNTIL PROPOSED EQUIPMENT IS IN PLACE.
5. ROOM NAMES SHOWN ON DEMOLITION DRAWINGS REFLECT FINAL ROOM NAMES USED IN ALL DRAWINGS. IN SOME CASES ROOM NAME WILL NOT MATCH CURRENT USE OF THE SPACE BUT RATHER IDENTIFIES THE PROPOSED USE.



NOTE: FOR PENETRATIONS BETWEEN WET WELL AND DRY WELL, FILL ENTIRE VOID AND SEAL BOTH SIDES.

TYPICAL PENETRATION DEMOLITION
FOR PIPES AND CONDUITS SMALLER THAN 4"

DETAIL A
SCALE: NTS -



PENETRATION DEMOLITION
FOR EXISTING PIPING 4" AND LARGER

DETAIL B
SCALE: NTS -

FOR REFERENCE ONLY

CALL TWO
BUSINESS DAYS
BEFORE YOU DIG
811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: NTS
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1
DESIGN APROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

GENERAL DEMOLITION NOTES

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **D-G001**
SHT NO / TOTAL: 015 / 393
REV NO:

BORDER FILE: KCWTD-2017-Dsize-TB-Border
FILE LOCATION: BIM 360://North Mercer Pump Station/333-E00306E13-PS-D-2019.rvt
PLOT DATE: 4/29/2019 5:47:57 AM
PLOTTED BY: REVIT

TREE TO BE REMOVED BY OTHERS AS PART OF CONTRACT C01340C20

The existing trash rack on the SE 22nd Street box culvert will be replaced with a new trash rack. This new trash rack will double the available screening area, thus reducing head losses through the screen and increasing the overall capacity of the box culvert. The existing trash rack is comprised of approximately ½" bars, spaced at about 3.5 " O.C. It is set at the top of the 3' x 5' box culvert opening and splays out, following the wingwalls, about 45 degrees. It provides a gross area of 25.4 sq ft and a net area (open area between bars) of 22.4 sq ft. The new trash rack will be mounted near the top of the head wall and lay at about a 40 degree angle. The base will extend about 4' 7" from the opening but will still be within the existing concrete wingwalls and apron. The screen would be constructed of ½" x 3" bars, spaced at 6" O.C.. The gross area of this screen would be 49.5 sq ft and the net area would be 44.8 sq ft. No demolition of the concrete wingwall or base will be required for existing trash rack removal and replacement.

PROPERTY LINE, TYP

STREAM

TREE LOD, TYP.

N: 546941.73
E: 1622402.43
END 26

N: 546942.73
E: 1622402.46

N: 546942.28
E: 1622365.77
BEGIN 26

N: 546,943.74
E: 1622365.81

NOTES:

1. SEE DRAWING G012 FOR SITE SURVEY BASE INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
4. SEE DRAWING C101 FOR TESC INFORMATION AND COORDINATES OF CLEARING AND GRUBBING LIMITS.
5. TREES 10 INCHES OR GREATER IN SIZE HAVE BEEN TAGGED. SEE DRAWING D-C103 FOR EXISTING TREE INVENTORY TABLE.
6. INSTALLATION OF TESC MEASURES AND REMOVAL ITEMS WILL DEPEND UPON THE CONTRACTORS CONSTRUCTION SEQUENCE.
7. CLEARING AND GRUBBING LIMITS REFLECT THE TEMPORARY CONSTRUCTION EASEMENT (4 FEET WIDTH BY 86 FEET LENGTH) ALONG THE NORTH WEST PROPERTY BOUNDARY.

(#) KEY NOTES:

1. REMOVE ASPHALT PAVEMENT.
2. REMOVE CONCRETE CURB / CURB AND GUTTER.
3. REMOVE CATCH BASIN.
4. REMOVE 6" STORM DRAIN PIPE.
5. PLUG STORM DRAIN PIPE.
6. REMOVE UNDERGROUND ELECTRICAL LINES.
7. REMOVE LUMINAIRE POLE.
8. REMOVE 8" PERFORATED DRAIN PIPE.
9. REMOVE 1" WATER LINE.
10. REMOVE 2" WATER SERVICE LINE. SEE DRAWING C126 FOR NEW PIPING.
11. PLUG 6" SIDE SEWER LINE.
12. REMOVE 2" BIOXIDE REFILLING PIPING (PVC). SEE DRAWING M101 FOR NEW PIPING.
13. REMOVE 3.5" DIA GATE POST/BOLLARD AND CONCRETE FOOTING.
14. REMOVE 6" SIDE SEWER LINE.
15. TREE INVENTORY NUMBER. SEE DRAWING D-C103.
16. REMOVE YARD HYDRANT.
17. REMOVE 8" DIA DI STORM PIPE. SEE DRAWING C124 FOR NEW PIPING.
18. REMOVE BURIED STORM STRUCTURE. SEE DRAWING C124 FOR NEW STRUCTURE.
19. REMOVE 12" DIA CONCRETE STORM PIPE. SEE DRAWING C124 FOR NEW PIPING.
20. REMOVE BOLLARD POST FOUNDATION.
21. PROTECT 6" STORM DRAIN LINE.
22. SEWER STRUCTURE TO REMAIN. PROTECT IN PLACE.
23. SEWER LINE TO REMAIN. PROTECT IN PLACE.
24. REMOVE TREE.
25. CLEARING AND GRUBBING LIMITS. SEE DRAWING C101 INFORMATION.
26. SAWCUT LINE.
27. REMOVE AND RELOCATE BIOXIDE CABINET. SEE DRAWING M101 FOR NEW LOCATION.
28. EXCAVATION FOR ENHANCED PLANTING PREPARATION AREA. SEE DRAWING L101.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

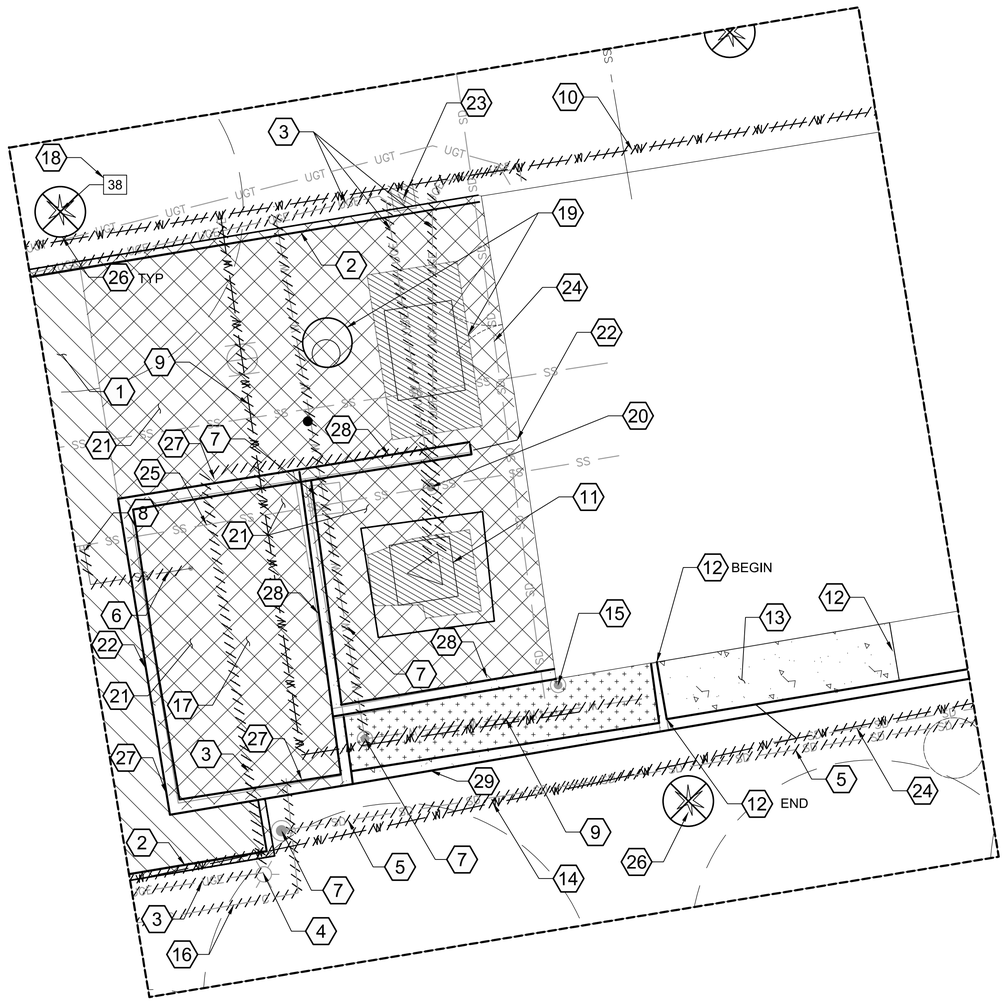
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

SITE CIVIL DEMOLITION PLAN

DCN:
DATE: 03/9/2020
PROJECT FILE NO:
DRAWING NO: D-C101
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-D-C101.dwg
PLOT DATE: 9/26/2019 9:36 PM
PLOTTED BY: D'Aurio, Isaac



ENLARGED AREA

DETAIL 1 / D-C101

SCALE: AS NOTED

NOTES:

1. SEE DRAWING G012 FOR SITE SURVEY BASE INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
5. TREES 10 INCHES OR GREATER IN SIZE HAVE BEEN TAGGED. SEE DRAWING D-C103 FOR EXISTING TREE INVENTORY TABLE.
6. SEE DRAWINGS M101, M201, AND M303 FOR WATER, STORM DRAIN, AND SANITARY SEWER BETWEEN PUMP STATION AND GENERATOR BUILDING. RESTORE CONCRETE SLAB AND WALL AS REQUIRED PER KEY NOTE 13.

KEY NOTES:

1. REMOVE ASPHALT PAVEMENT.
2. REMOVE CONCRETE CURB / CURB AND GUTTER.
3. REMOVE UNDERGROUND ELECTRICAL LINES.
4. REMOVE LUMINAIRE POLE.
5. REMOVE 8" PERFORATED DRAIN PIPE.
6. REMOVE 3" BIOXIDE DRAIN PIPE.
7. REMOVE CLEANOUT.
8. PLUG 3" DRAIN PIPE.
9. REMOVE ANY REMAINING IRRIGATION AND SPRINKLER LINES.
10. REMOVE 1" WATER LINE.
11. SEE DRAWING D-E201 FOR REMOVAL OF TRANSFORMER AND CONCRETE PAD / VAULT.
12. SAWCUT EXISTING CONCRETE WALL AND LOWERED WALKWAY.
13. REMOVE CONCRETE LOWERED CONCRETE WALKWAY, AS REQUIRED.
14. REMOVE 2" WATER SERVICE LINE. SEE DRAWING C126 FOR NEW PIPING.
15. REMOVE DOWNSPOUT PIPING. SEE DRAWING C124 FOR NEW PIPING.
16. REMOVE 2" BIOXIDE REFILLING PIPING (PVC). SEE DRAWING M101 FOR NEW PIPING.
17. RELOCATE BIOXIDE TANK (APPROXIMATELY 2500 GALLON, HORIZONTAL LEG, POLYETHYLENE TANK) AND REMOVE CONCRETE ENCLOSURE AND CHAIN LINK FENCE.
18. TREE INVENTORY NUMBER. SEE DRAWING D-C103.
19. REMOVE UNDERGROUND FUEL TANK AND APPURTENANCES. REMOVE EXISTING FUEL LINES AS NEEDED OR ABANDON IN PLACE.
20. PROTECT EXISTING SEWER CLEANOUT TO REMAIN.
21. REMOVE CONCRETE PAVEMENT.
22. REMOVE ACCESS GATE.
23. REMOVE YARD HYDRANT.
24. PROTECT 6" STORM DRAIN LINE.
25. SEWER LINE TO REMAIN. PROTECT IN PLACE.
26. REMOVE TREE.
27. REMOVE CONCRETE STEM WALL AND FENCING.
28. REMOVE CONCRETE STEM WALL WITH BRICK EXTENSION.
29. REMOVE CONCRETE STEM WALL (LANDSCAPING).

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 5'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWN	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

SITE CIVIL DEMOLITION PLAN

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	D-C102
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\WJX67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-D-C102.dwg
PLOT DATE: 6/28/2019 11:22 AM
PLOTTED BY: D'Auria, Isaac

TREE TAG	SPECIES	DBH (in.)	LOD (ft.)	DRIP-LINE (ft.)	DISPOSITION	EXCEPTIONAL
1	NORWAY MAPLE, *ACER PLATANOIDES*	14.0	9	20	REMOVE	NO
2	NORWAY MAPLE, *ACER PLATANOIDES*	17.2	11	24	REMOVE	NO
3	NORWAY MAPLE, *ACER PLATANOIDES*	10.5	7	15	REMOVE	NO
4	NORWAY MAPLE, *ACER PLATANOIDES*	15.0	10	15	REMOVE	NO
5	RED ALDER, *ALNUS RUBRA*	12.0	12	15	REMOVE	NO
6	WESTERN REDCEDAR, *THUJA PLICATA*	12.1	12	16	REMOVE	NO
7	NORWAY MAPLE, *ACER PLATANOIDES*	20.2	13	20	REMOVE	NO
8	PORTUGUESE LAUREL, *PRUNUS LUSITANICA*	14.0	9	10	REMOVE	NO
9	NORWAY MAPLE, *ACER PLATANOIDES*	15.5	10	18	REMOVE	NO
10	GRAND FIR, *ABIES GRANDIS*	19.5	13	15	REMOVE	NO
11	RED ALDER, *ALNUS RUBRA*	19.0	19	15	REMOVE	NO
12	RED ALDER, *ALNUS RUBRA*	13.4	13	12	REMOVE	NO
13	DOUGLAS-FIR, *PSEUDOTSUGA MENZIESII*	10.0	7	12	REMOVE	NO
14	RED ALDER, *ALNUS RUBRA*	12.0	12	14	REMOVE	NO
15	RED ALDER, *ALNUS RUBRA*	10.0	10	15	REMOVE	YES
16	RED ALDER, *ALNUS RUBRA*	15.5	16	25	REMOVE	NO
17	WESTERN REDCEDAR, *THUJA PLICATA*	17.0	11	15	PROTECT	NO
18	WESTERN REDCEDAR, *THUJA PLICATA*	11.5	12	13	NO IMPACT	NO
19	BIGLEAF MAPLE, *ACER MACROPHYLLUM*	18.2	12	20	NO IMPACT	NO
20	BIGLEAF MAPLE, *ACER MACROPHYLLUM*	25.5	17	30	PROTECT	NO
21	GRAND FIR, *ABIES GRANDIS*	18.2	12	12	PROTECT	NO
22	BIGLEAF MAPLE, *ACER MACROPHYLLUM*	19.8	13	20	NO IMPACT	NO
23	BIGLEAF MAPLE, *ACER MACROPHYLLUM*	14.0	9	20	NO IMPACT	NO
24	BIGLEAF MAPLE, *ACER MACROPHYLLUM**	18.1	12	20	NO IMPACT	NO
25	RED ALDER, *ALNUS RUBRA*	17.0	17	18	NO IMPACT	NO
26	RED ALDER, *ALNUS RUBRA*	17.0	17	20	NO IMPACT	NO
27	BLACK COTTONWOOD, *POPULUS TRICHOCARPA**	78.1	60	35	NO IMPACT	NO
28	GRAND FIR, *ABIES GRANDIS*	20.0	13	12	PROTECT	NO
29	RED ALDER, *ALNUS RUBRA*	19.0	19	40	NO IMPACT	NO
30	GRAND FIR, *ABIES GRANDIS*	16.1	11	12	PROTECT	NO
31	BIGLEAF MAPLE, *ACER MACROPHYLLUM**	10.5	7	30	NO IMPACT	NO
32	RED ALDER, *ALNUS RUBRA*	12.0	12	10	NO IMPACT	NO
33	RED ALDER, *ALNUS RUBRA*	17.6	18	30 TO W	NO IMPACT	NO
34	RED ALDER, *ALNUS RUBRA*	17.0	17	20	NO IMPACT	NO
35	RED ALDER, *ALNUS RUBRA*	17.1	17	25	NO IMPACT	NO
36	WESTERN REDCEDAR, *THUJA PLICATA**	11.8	12	15	NO IMPACT	NO
37	OREGON ASH, *FRAXINUS LATIFOLIA*	14.4	10	15	NO IMPACT	NO
38	GRAND FIR, *ABIES GRANDIS*	17.3	12	12	REMOVE	NO
39	RED ALDER, *ALNUS RUBRA*	14.8	15	25	NO IMPACT	NO
40	RED ALDER, *ALNUS RUBRA*	16.6	17	25	NO IMPACT	NO
41	RED ALDER, *ALNUS RUBRA*	16.6	17	20 TO E, 10 TO W	NO IMPACT	NO
42	RED ALDER, *ALNUS RUBRA*	13.1	13	15	NO IMPACT	NO
43	RED ALDER, *ALNUS RUBRA*	17.5	18	20	NO IMPACT	NO
44	RED ALDER, *ALNUS RUBRA*	19.1	19	30	PROTECT	NO
45	GRAND FIR, *ABIES GRANDIS*	18.7	12	15	REMOVE	NO
46	WESTERN REDCEDAR, *THUJA PLICATA*	18.0	12	20	PROTECT	NO
47	RED ALDER, *ALNUS RUBRA*	10.0	10	30 TO E	NO IMPACT	NO
48	RED ALDER, *ALNUS RUBRA*	13.0	13	30 TO E	NO IMPACT	NO
49	BLACK COTTONWOOD, *POPULUS TRICHOCARPA*	53.6	54	30	REMOVE	YES
50	BLACK COTTONWOOD, *POPULUS TRICHOCARPA*	0 (SEE #49)	N/A	N/A	0	N/A
51	RED ALDER, *ALNUS RUBRA*	12.0	12	20 TO W	REMOVE	YES
52	GRAND FIR, *ABIES GRANDIS*	26.5	18	20	REMOVE	YES
53	RED ALDER, *ALNUS RUBRA*	12.2	12	25 TO W	REMOVE	YES
54	RED ALDER, *ALNUS RUBRA*	10.3	10	15 TO N	REMOVE	YES
55	RED ALDER, *ALNUS RUBRA*	10.5	11	15 TO E	REMOVE	YES
56	WESTERN REDCEDAR, *THUJA PLICATA*	23.2	10	17	PROTECT	NO
57	WESTERN REDCEDAR, *THUJA PLICATA*	18.5	19	15	PROTECT	NO
58	GRAND FIR, *ABIES GRANDIS*	20.7	14	10	PROTECT	NO
59	BLACK COTTONWOOD, *POPULUS TRICHOCARPA*	23.0	10	15	PROTECT	NO

*SEE NOTE 4

NOTES:

1. TREES LISTED IN THE INVENTORY TABLE ARE SHOWN AND IDENTIFIED ON THE DWG. D-C101 AND D-C102.
2. SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
3. TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.
4. TREES #'S 24, 27, 31 AND 36 ARE LOCATED OUTSIDE OF THE VIEW SHOWN ON DWG D-C101, BUT ARE LOCATED A SUFFICIENT DISTANCE OUTSIDE OF CONSTRUCTION LIMITS TO AVOID BEING IMPACTED.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: L. FRENCH	SCALE: NTS
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

EXISTING TREE INVENTORY TABLE

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: D-C103
SHT NO / TOTAL: 23 / 347
REV NO:

BORDER FILE EDITION: KCWTD_2012_Dsize_TB_Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-D-C103.dwg
PLOT DATE: 8/1/2019 3:58 PM
PLOTTED BY: D'Auria, Isaac

SE 22ND STREET

STREAM DIVERSION DAM 3

STREAM DIVERSION STANDBY PUMPS 3

TEMPORARY GRAVITY DIVERSION PIPES (TYP) 3

STREAM DIVERSION DAM 3

16" SS PROP.

18" SS PROP.

16" SS TEMPORARY 2 3

18" SS EXIST.

CONNECTION TO EXIST. FORCEMAIN SEE DWG T-M901 6

EXIST. WATER AND TELECOM 1

D T-M903

EXISTING PUMP STATION

MH RO8H-02

16" SS RECIRCULATION LINE (ABOVE GRADE)

30" SS EXIST.

48" SS EXIST.

EXISTING UNDERGROUND POWER 1

PSE UTILITY POLE 1

PSE JUNCTION BOX (MH)

EXISTING WATER 1

SERVICE YARD

GENERATOR BUILDING

3 TPS MAINTENANCE HOLE (MH RO8G-24A)

4 CONTROL TRAILER

MOBILE ODOR CONTROL UNIT 4

BIOXIDE TOTES

TPS GENERATOR 3

TPS TRANSFORMER

MH RO8G-24

14" FA

ELECTRICAL TRAILER 3

TEMPORARY RETAINING WALL

TEMPORARY CONSTRUCTION EASEMENT 5

TPS METER VAULT 3

TPS VALVE VAULT 3

NOTES:

1. SEE DWG T-M901 AND T-M902 FOR TPS PLAN AND SECTIONS.
2. ITEMS SHOWN IN GRAY SHALL BE REMOVED FROM THE SITE UPON DECOMMISSIONING OF TPS. TEMPORARY ELECTRICAL, CONTROLS AND ODOR UNIT TRAILERS SHALL BE RETURNED TO KING COUNTY SOUTH PLANT.

KEY NOTES:

1. PROTECT EXISTING UTILITIES IN PLACE OR RELOCATE AS REQUIRED.
2. UPON DECOMMISSIONING OF TPS, REMOVE TEMPORARY FORCE MAIN.
3. CONTRACTOR PROVIDED TEMPORARY EQUIPMENT.
4. CONTRACTOR SHALL USE COUNTY PROVIDED MOBILE ODOR UNIT AND CONTROL TRAILER. CONTRACTOR RESPONSIBLE FOR MODIFYING THESE FACILITIES TO MEET THE TPS REQUIREMENTS.
5. TEMPORARY CONSTRUCTION EASEMENT IS 4' WIDE BY 86' LONG

NOTE TO REVIEWER

6. NEED TO CONFIRM WITH COUNTY HOW EXISTING FORCE MAIN SHOULD BE DECOMMISSIONED AT PUMP STATION TO ALLOW FUTURE INSPECTION AND ASSESSMENT

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. SCHEY	SCALE: 1"=10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

TEMPORARY FACILITIES CIVIL SITE PLAN

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: T-C101
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\12539\200-12539-18001\CAD\SheetFiles\Mercer Island-LUP\SheetFiles\333-E00306E13TC101.dwg
PLOT DATE: 9/26/2019 9:47 AM
PLOTTED BY: Morris, Richard

TEMPORARY EROSION/SEDIMENTATION CONTROL NOTES:

1. THE IMPLEMENTATION OF THESE EROSION & SEDIMENTATION CONTROL PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE EROSION & SEDIMENTATION CONTROL FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.

2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED (FLAGGED OR OTHER MARKING) IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE DESIGNATED CLEARING LIMITS SHALL BE PERMITTED, UNLESS OTHERWISE SPECIFIED. THE MARKED LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL DIRECTED BY THE PROJECT REPRESENTATIVE TO BE REMOVED.

3. THE EROSION & SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF SURFACE WATER QUALITY STANDARDS, GROUND WATER STANDARDS, SEDIMENT MANAGEMENT STANDARDS, AND HUMAN HEALTH-BASED CRITERIA IN THE NATIONAL TOXICS RULE (40 CFR PART 131.36).

4. THE EROSION & SEDIMENTATION CONTROL FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE EROSION & SEDIMENTATION CONTROL FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS AT NO ADDITIONAL COST TO THE COUNTY.

5. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 10 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED EROSION & SEDIMENTATION CONTROL METHODS (E.G. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).

6. ANY AREA NEEDING EROSION & SEDIMENTATION CONTROL MEASURES, NOT REQUIRING IMMEDIATE ATTENTION. SHALL BE ADDRESSED WITHIN TEN (10) DAYS.

7. AT NO TIME SHALL MORE THAN 6 INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN OR CATCH BASIN INSERT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

8. DURING THE TIME PERIOD OF NOVEMBER 1 THROUGH MARCH 31, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET, THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, COMPOST, OR PLASTIC COVERING.

9. APPROVAL OF THE EROSION AND SEDIMENT CONTROL (ESC) OR TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD AND/OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION BMPS, UTILITIES, ETC.) BUT IS AN APPROVAL OF ESC/TESC MEASURES ONLY.

10. THE CONTRACTOR SHALL MARKUP AND RESUBMIT FOR APPROVAL UPDATED TESC PLANS INDICATING LOCATIONS AND SEQUENCING OF MEASURES (FACILITIES AND BMPS) TO BE INSTALLED TO THE PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.

11. STABILIZED CONSTRUCTION ENTRANCES, RUMBLE PLATES AND/OR WHEEL WASH FACILITIES, SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

12. ESC/TESC MEASURES SHALL BE INSPECTED DAILY BY THE CONTRACTOR DURING ACTIVE WORK AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED PROPER FUNCTIONING.

13. THE CONTRACTOR SHALL MAINTAIN A FULLY STOCKED SPILL KIT ON SITE AT ALL TIMES.

14. THE CONTRACTOR SHALL DESIGNATE A PERSON TO BE TESC SUPERVISOR. THE TESC SUPERVISOR SHOULD HAVE THEIR CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) CERTIFICATION SINCE THE SITE IS LESS THAN ONE ACRE. THE TESC SUPERVISOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REVIEW OF ESC/TESC MEASURES AND FOR COMPLIANCE WITH ALL PERMIT CONDITIONS RELATING TO ESC/TESC. THE TESC SUPERVISOR MUST BE AVAILABLE FOR RAPID RESPONSE TO ESC/TESC PROBLEMS. THE CONTRACTOR SHALL PROVIDE THE NAME AND PHONE NUMBERS TO REACH THE TESC SUPERVISOR, AT ALL TIMES, TO THE PROJECT REPRESENTATIVE.

15. SHOULD ESC/TESC MEASURES NOT BE PROPERLY INSTALLED AND MAINTAINED, THE PROJECT REPRESENTATIVE MAY STOP ALL WORK NOT PERTAINING TO THE CORRECTION OF ESC/TESC PROBLEMS UNTIL ESC/TESC MEASURES ARE RETURNED TO THE PROPER OPERATION.

16. ALL ESC/TESC BMPS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.

17. THE PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAN. TRACKING OF MUD AND DEBRIS FROM THE SITE WILL NOT BE ALLOWED. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED UNTIL THE ISSUE IS CORRECTED, AT NO COST TO THE COUNTY.

18. SCRAPING AND SWEEPING OF STREETS, SIDEWALKS, AND FLOWLINES SHALL BE CONDUCTED AT THE END OF EACH WORK DAY WITH A VACUUM SWEEPER OR OTHER APPROVED MEANS. VACUUM/CLEAN UP SLURRY CREATED FROM SAW-CUTTING OF PAVEMENTS IMMEDIATELY AFTER OR CONCURRENT WITH CUTTING.

19. THE WASHINGTON STATE CLEAN AIR ACT REQUIRES THE USE OF ALL KNOWN, AVAILABLE, AND REASONABLE MEANS OF CONTROLLING AIR POLLUTION, INCLUDING DUST. DUST CAN BE CONTROLLED BY WETTING EXPOSED SOILS, WASHING TRUCK WHEELS BEFORE THEY LEAVE THE SITE, AND INSTALLING AND MAINTAINING ROCK CONSTRUCTION ENTRANCES. CONSTRUCTION VEHICLE TRACK-OUT IS A MAJOR SOURCE OF DUST AND ANY EVIDENCE OF TRACK-OUT CAN TRIGGER FINES FROM THE DEPARTMENT OF ECOLOGY OR THE PUGET SOUND AIR POLLUTION CONTROL AGENCY THAT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

20. THE CONTRACTOR SHALL IMPLEMENT LINEAR RUN-ON CONTROLS TO PREVENT WATER FROM ENTERING THE CONSTRUCTION AREA.

21. PORTABLE SANITARY FACILITIES SHALL BE LOCATED AT LEAST 25 FEET FROM ANY STORM WATER INLET OR WATER BODY AND SHALL BE SERVICED REGULARLY AS NEEDED.

22. STATIONARY EQUIPMENT (E.G., GENERATORS, LIGHT STANDS) CONTAINING ANY AMOUNT OF FUELS AND OR OILS SHALL BE EQUIPPED WITH SECONDARY CONTAINMENT.

23. CONTRACTORS USING BMPS BASED ON EQUIVALENT LEVEL OF POLLUTION PREVENTION, "DEMONSTRABLY EQUIVALENT", THAT ARE NOT LISTED IN THE ECOLOGY MANUAL SHALL SUBMIT SUPPORTING PERFORMANCE BMP DOCUMENTATION (SCIENTIFIC, TECHNICAL STUDIES, AND/OR MODELING) AND AN ASSESSMENT OF HOW THE SELECTED BMP WILL SATISFY AKART (ALL KNOWN, AVAILABLE AND REASONABLE METHODS OF PREVENTION, CONTROL AND TREATMENT) AND APPLICABLE FEDERAL TECHNOLOGY-BASED TREATMENT (40 CFR PART 125.3) REQUIREMENTS TO ECOLOGY AT LEAST 60 DAYS PRIOR TO USE OF BMP.

24. CONTRACTORS SHALL NOTIFY ECOLOGY OF CHANGES OF INFORMATION PROVIDED ON THE NOTICE OF INTENT (NOI) INCLUDING, BUT NO LIMITED TO, PERMITTEE'S MAILING ADDRESS, ON-SITE CONTACT PERSON INFORMATION, AND AREA/ACREAGE AFFECTED BY CONSTRUCTION ACTIVITY.

25. MONITORING REQUIREMENTS, BENCHMARKS, AND REPORTING TRIGGERS SHALL BE IN ACCORDANCE WITH SECTION S4 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP):

    A. SITES LESS THAN ONE ACRE THAT DISCHARGES STORMWATER TO SURFACE WATERS OF THE STATE IS RECOMMENDED TO HAVE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PERSON CONDUCTING SITE INSPECTIONS.

    B. SITES OF ONE ACRE OR LARGER THAT DISCHARGES STORMWATER TO SURFACE WATERS OF THE STATE SHALL HAVE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PERSON CONDUCTING SITE INSPECTIONS.

    C. CONTRACTOR SHALL PROVIDE WEEKLY INSPECTIONS AND SAMPLING, BASED ON SITE DISTURBANCE, AS SPECIFIED ON TABLE 3 OF SECTION S4.B.5 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP).

26. WHEN PROBLEMS ARE IDENTIFIED DURING INSPECTIONS, THE CONTRACTOR SHALL:

    A. IMMEDIATELY MAINTAIN APPROPRIATE SOURCE CONTROL AND/OR TREATMENT BMPS.

    B. START IMPLEMENTING APPROPRIATE BMP REVISIONS WITHIN 7 DAYS.

    C. HAVE THE PROBLEM RESOLVED WITHIN 10 DAYS OF THE INSPECTION. IF CORRECTION TO THE PROBLEM CANNOT BE IMPLEMENTED WITHIN 10 DAYS, THE CONTRACTOR SHALL SUBMIT AN EXTENSION REQUEST FORM TO ECOLOGY WITHIN THE INITIAL 10-DAY RESPONSE PERIOD.

27. REPORTING AND RECORD KEEPING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION S5 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP):

    A. IF HIGH TURBIDITY REPORTING LEVELS ARE REACHED, THE INSPECTOR SHALL EITHER CALL THE APPLICABLE ECOLOGY REGION'S ENVIRONMENTAL REPORT TRACKING SYSTEM NUMBER WITHIN 24-HOURS OF ANALYSIS OR SUBMIT AN ELECTRONIC REPORT THROUGH ECOLOGY'S WATER QUALITY PERMITTING PORTAL.

    B. DISCHARGE MONITORING REPORTS (DMRS) SHALL BE SUBMITTED USING ECOLOGY'S WATER QUALITY PERMITTING PORTAL. INSPECTORS UNABLE TO ACCESS THE PERMITTING PORTAL SHALL REQUEST A WAIVER AND OBTAIN INSTRUCTION FROM ECOLOGY.

    C. DMRS SHALL BE RECEIVED BY ECOLOGY WITHIN 15 DAYS FOLLOWING THE END OF EACH MONTH.

28. THE CONTRACTOR SHALL KEEP THE GENERAL PERMIT, THE PERMIT COVERAGE LETTER, THE STORMWATER POLLUTION PREVENTION PLAN, AND THE SITE LOG BOOK ON SITE OR WITHIN REASONABLE ACCESS TO THE SITE.

TESC CONSTRUCTION SEQUENCE:

1. ERECT FILTER FABRIC FENCE AND HIGH VISIBILITY FENCING ALONG THE PERIMETER AS SHOWN ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE.

2. INSTALL CATCH BASIN INSERTS IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS AND THE FIRST CATCH BASIN DOWNSTREAM OF THE PROJECT IF APPLICABLE.

3. INSTALL CULVERT INLET PROTECTION AND INSTALL CURB AND GUTTER BARRIER PROTECTION.

4. CLEAR AND GRUB AREA AS SHOWN ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE. PROTECT VEGETATION AND STRUCTURES AS NOTED ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE.

5. CONSTRUCT IMPROVEMENTS. INSTALL CATCH BASIN INSERTS ON ALL NEWLY INSTALLED CATCH BASINS.

6. PAVE AND PLANT AS SHOWN ON THE PLANS.

7. CLEAN CATCH BASINS AND CONVEYANCE SYSTEM. CONTRACTOR SHALL NOT FLUSH CLEANING WATER DOWNSTREAM.

8. REMOVE REMAINING TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES ONLY AFTER SITE HAS BEEN STABILIZED AND PROJECT REPRESENTATIVE HAS APPROVED REMOVAL.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: NONE
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

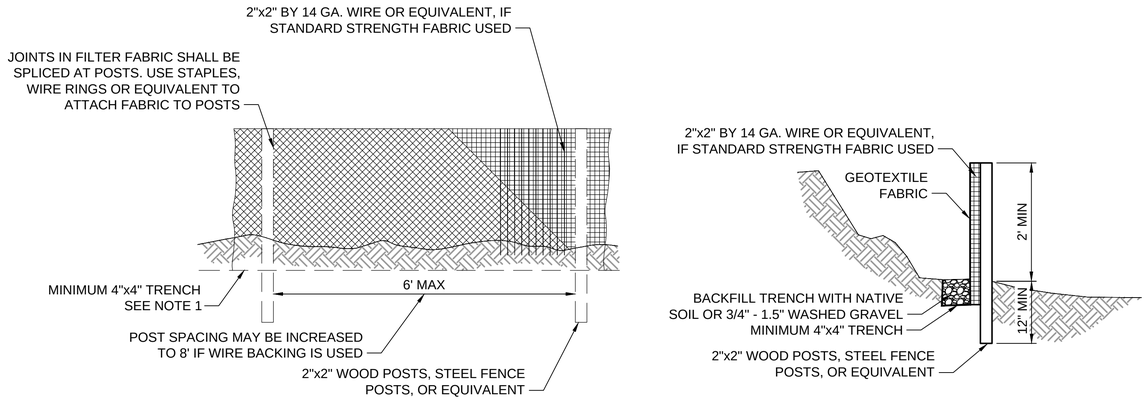
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

EROSION CONTROL GENERAL NOTES

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C011**
SHT NO / TOTAL: XXX /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C011.dwg
PLOT DATE: 8/1/2019 4:45 PM
PLOTTED BY:D'Aurio, Isaac



NOTES:

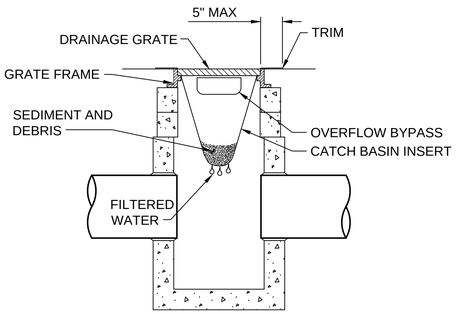
1. SILT FENCE LOCATED WITHIN A TREE PROTECTION ZONE TO UTILIZE SAND BAGS IN LIEU OF TRENCHING TO SECURE BOTTOM OF GEOTEXTILE FABRIC.
2. THE CONTRACTOR IS TO PLACE THE FENCE AS CLOSE AS PRACTICAL TO THE EDGE OF PAVEMENT WHEN SHOWN ON DRAWINGS.

SILT FENCE

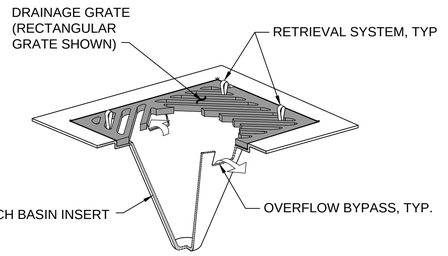
DETAIL 1 VAR

SCALE: NTS

SOURCE: AMENDED 2014 SWMMWW



SECTION VIEW



ISOMETRIC VIEW

NOTES:

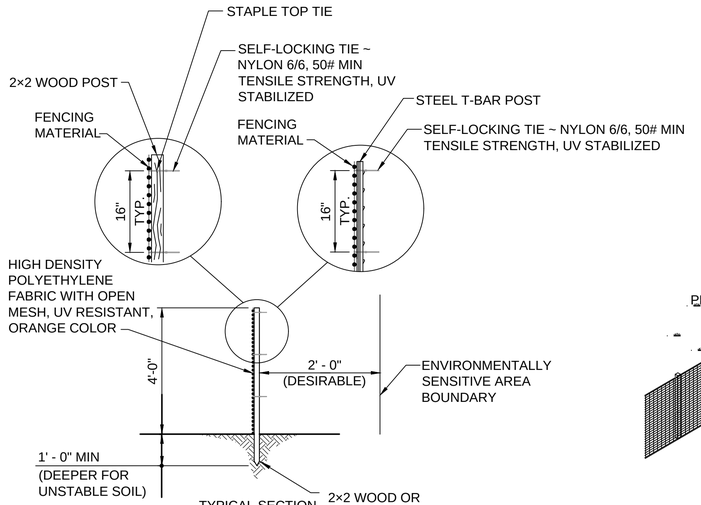
1. SIZE THE CATCH BASIN INSERT FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE CATCH BASIN INSERT SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE CATCH BASIN INSERT WITHOUT SPILLING THE COLLECTED MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).

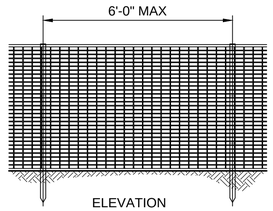
STORM DRAIN INLET PROTECTION

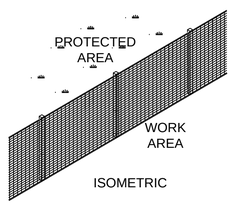
DETAIL 2 VAR

SCALE: NTS

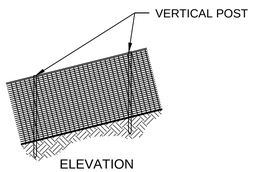
SOURCE: 2016 WSDOT







ISOMETRIC



ELEVATION
FENCE ON SLOPE

NOTES:

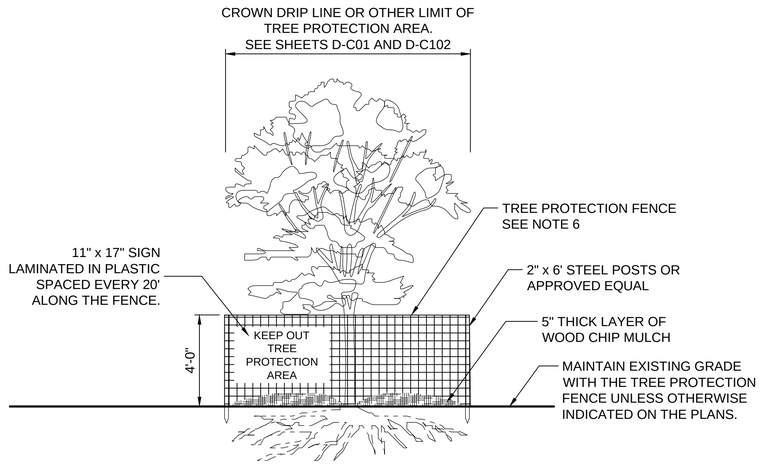
1. THE CONTRACTOR IS TO PLACE THE FENCE AS CLOSE AS PRACTICAL TO THE EDGE OF PAVEMENT WHEN SHOWN ON DRAWINGS.

HIGH VISIBILITY FENCE

DETAIL 3 VAR

SCALE: NTS

SOURCE: 2016 WSDOT



SECTION VIEW

NOTES:

1. NO PRUNING SHALL BE PERFORMED UNLESS UNDER THE DIRECTION OF AN ARBORIST.
2. NO EQUIPMENT SHALL BE STORED OR OPERATED INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
3. NO STORAGE OF MATERIALS SHALL OCCUR INSIDE THE PROTECTIVE FENCING.
4. UNAUTHORIZED ACTIVITIES IN TREE PROTECTION AREA SHALL REQUIRE EVALUATION BY ARBORIST TO IDENTIFY IMPACTS AND MITIGATION REQUIRED.
5. EXPOSED ROOTS: FOR ROOTS > 1" DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVED DAMAGED PORTION AND INFORM CITY ARBORIST.
6. TREE PROTECTION FENCE TO BE CHAINLINK, WIRE MESH, OR WOODEN FENCE, 4 TO 6 FEET IN HEIGHT.

TREE PROTECTION

DETAIL 4 VARIES

SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING

INFORMATION ONLY

DRAFT

MERCER ISLAND LAND USE SET

SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION

NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

TESC DETAILS

DCN:

DATE: 05/02/2019

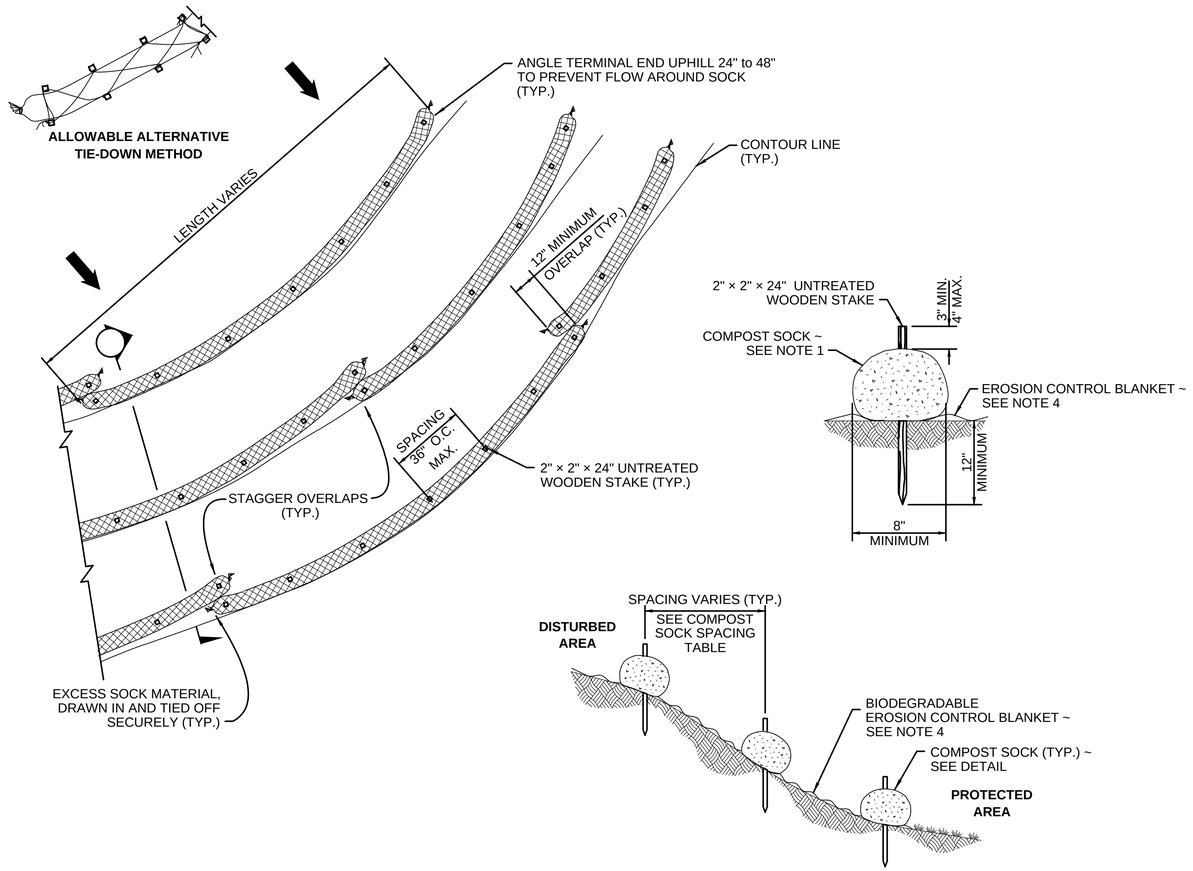
PROJECT FILE NO:

DRAWING NO: **C012**

SHT NO / TOTAL: /

REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C012.dwg
PLOT DATE: 6/28/2019 11:54 AM
PLOTTED BY: D'Aurio, Isaac

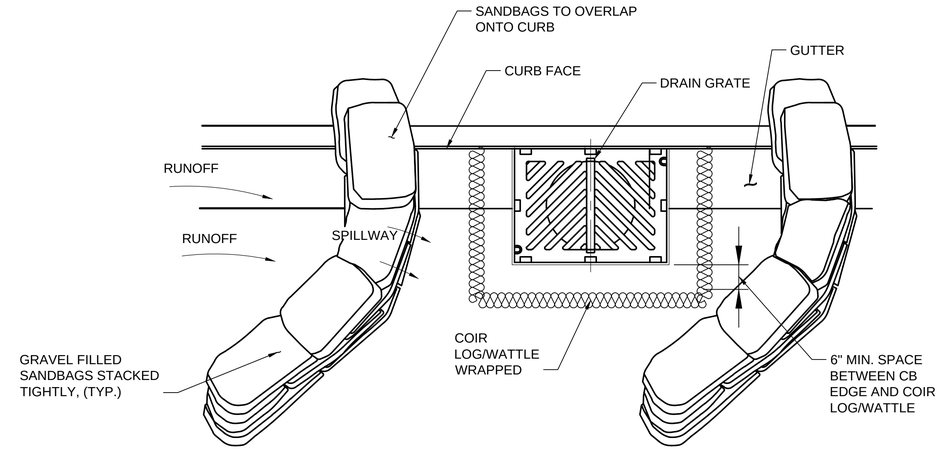


NOTES:

1. COMPOST SOCK SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 9-14.5(6).
2. SECURELY KNOT EACH END OF COMPOST SOCK. OVERLAP ADJACENT COMPOST SOCK ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
3. COMPOST TO BE DISPERSED ON SITE AS DETERMINED BY THE ENGINEER, WHEN VEGETATION COVERS THE SURFACE.
4. IF EROSION CONTROL BLANKET IS SPECIFIED, PLACE COMPOST SOCK ON TOP OF BLANKET. SEE WSDOT STANDARD PLAN I-60.10.
5. INSTALL COMPOST SOCK PERPENDICULAR TO FLOW, ALONG CONTOURS.
6. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.
7. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION8-01.3(15).
8. REFER TO WSDOT STANDARD SPECIFICATION 8-01.3(16) FOR REMOVAL.

8" DIAMETER COMPOST SOCK SPACING TABLE	
SLOPE	MAXIMUM SPACING
1H : 1V	10' - 0"
2H : 1V	20' - 0"
3H : 1V	30' - 0"
4H : 1V	40' - 0"

COMPOST SOCK
DETAIL 1 / C101
SCALE: NTS



PLAN VIEW

NOTES:

1. PLACE CURB-TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC SHALL BE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. LEAVE A ONE-SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BMP AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL SHALL BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB & GUTTER BARRIER PROTECTION
DETAIL 2 / C101
SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

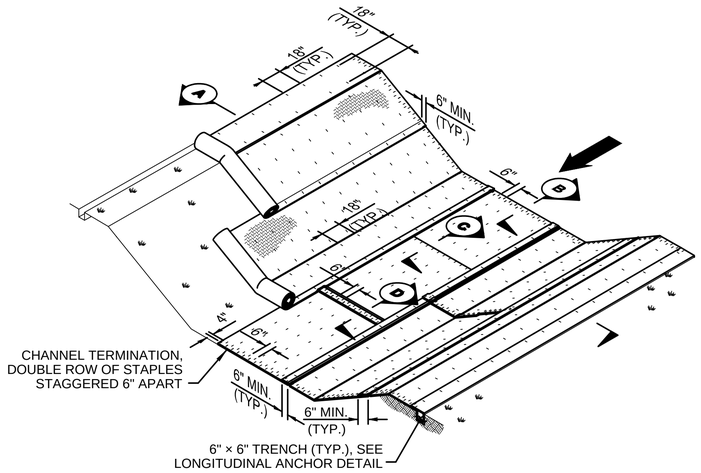
DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

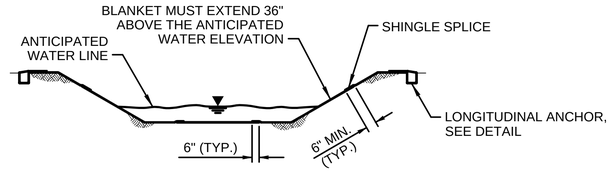
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
TESC DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C013**
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C013.dwg
PLOT DATE: 6/28/2019 11:54 AM
PLOTTED BY: D'Aurio, Isaac



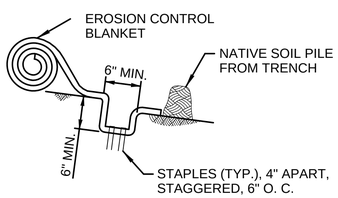
ISOMETRIC VIEW



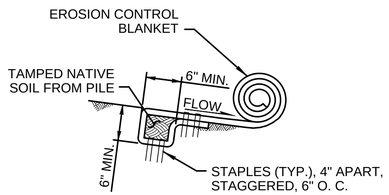
SECTION A-A

NOTES:

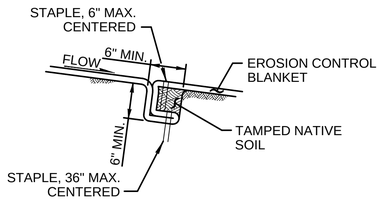
1. MORE THAN THE MINIMUM OF ONE FASTENER PER SQUARE YARD MAY BE REQUIRED DUE TO CONDITIONS SUCH AS BLANKET COMPOSITION, SOIL TYPE, SURFACE UNIFORMITY, AND FLOW VELOCITY.
2. INSTALL CHECK SLOTS PER MANUFACTURER'S RECOMMENDATIONS.
3. SEE WSDOT STANDARD SPECIFICATION 8-01.3(3) AND 9-14.5(2)
4. USE MANUFACTURER'S REQUIREMENTS. WHEN MANUFACTURER'S REQUIREMENTS ARE NOT PROVIDED, USE INSTALLATION REQUIREMENTS SHOWN ON STANDARD PLAN.
5. ADDITIONAL STAPLES MAY BE REQUIRED FOR HIGH FLOW EXPOSURE.
6. PREPARE SMOOTH SLOPE.
7. AMEND SOIL AND SEED, AS SPECIFIED.
8. DIG ANCHOR TRENCH. SET ASIDE NATIVE SOIL REMOVED FROM TRENCH.
9. SECURE BLANKET IN ANCHOR TRENCH, STAKING OR STAPLING BLANKET AS SHOWN.
10. REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
11. ROLL BLANKET PARALLEL TO THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH BLANKET.
12. STAKE OR STAPLE BLANKET AS SHOWN SO THERE ARE NO GAPS BETWEEN THE BLANKET AND THE SOIL. STAPLE WHILE UNROLLING BLANKET TO MINIMIZE WALKING ON BLANKET.



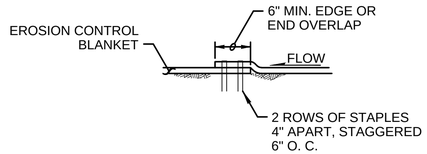
SECTION B-B



SECTION C-C

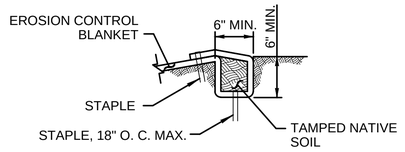


INTERMITTENT CHECK SLOT



SHINGLE SPLICE AT END OF ROLL SECTION

SECTION D-D



LONGITUDINAL ANCHOR DETAIL

BIODEGRADABLE EROSION CONTROL BLANKET

DETAIL 1 / C101

SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

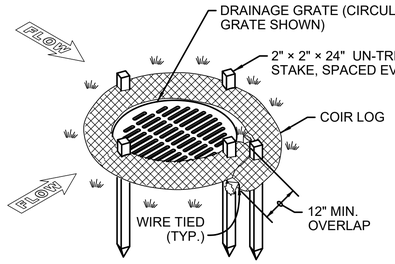
DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

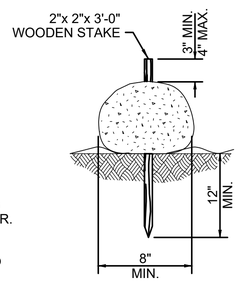
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
TESC DETAILS

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C014
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C014.dwg
PLOT DATE: 6/28/2019 11:53 AM
PLOTTED BY:D'Auria, Isaac





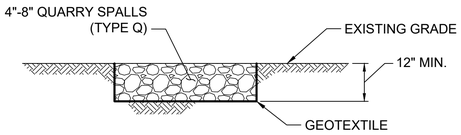
TYPICAL SECTION

NOTES:

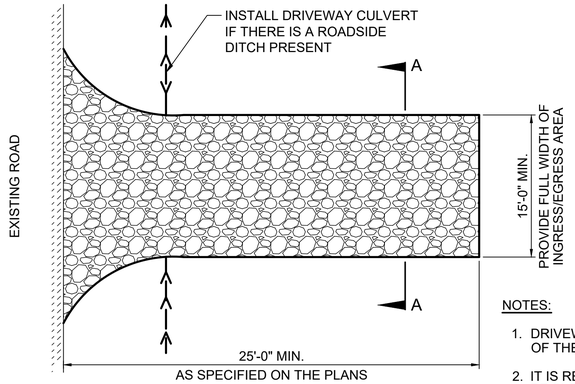
1. SECURELY KNOT EACH END OF LOG. OVERLAP ADJACENT LOG ENDS 12" BEHIND ONE-ANOTHER AND SECURELY TIE TOGETHER.
2. COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
3. LOG SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCED RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.

YARD INLET PROTECTION

DETAIL 1 / C101
SCALE: NTS



SECTION "A-A"

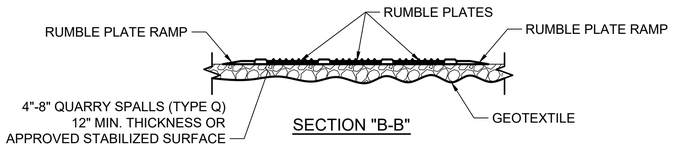


NOTES:

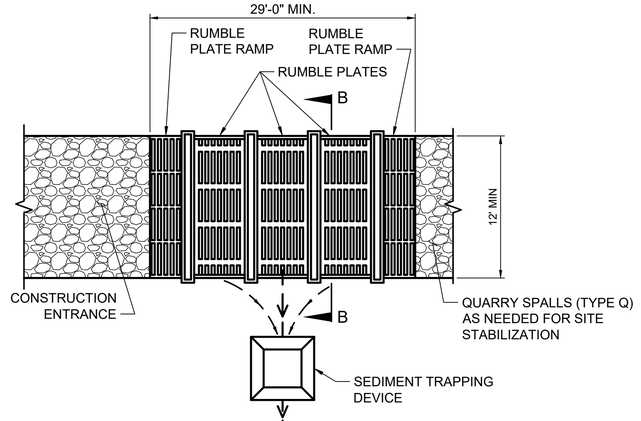
1. DRIVEWAY SHALL MEET THE REQUIREMENTS OF THE PERMITTING AGENCY.
2. IT IS RECOMMENDED THAT THE ENTRANCE BE SLOPED SO THAT THE RUNOFF DRAINS OFF THE PAD.

CONSTRUCTION ENTRANCE

DETAIL 2 / C101
SCALE: NTS



SECTION "B-B"



CORRUGATED STEEL RUMBLE PLATE

DETAIL 3 / C101
SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

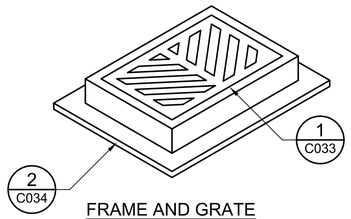
DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

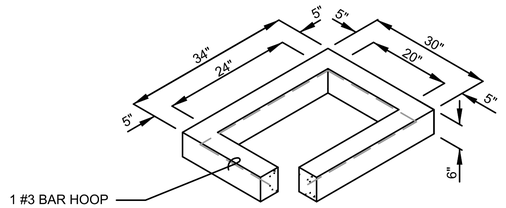
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
TESC DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C015**
SHT NO / TOTAL: 100 / 393
REV NO:

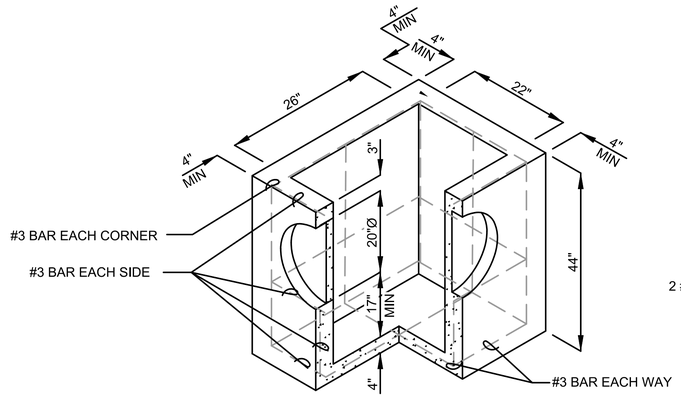
BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C015.dwg
PLOT DATE: 4/29/2019 2:50 PM
PLOTTED BY: Eulain, John



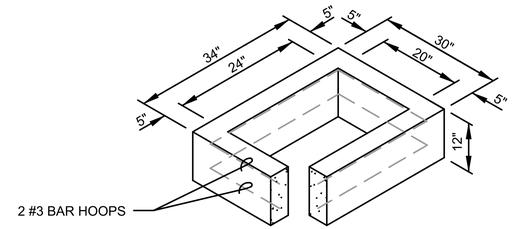
FRAME AND GRATE



6" RISER SECTION



PRECAST BASE SECTION
(MEASUREMENT AT THE TOP
OF THE BASE)



12" RISER SECTION

NOTES :

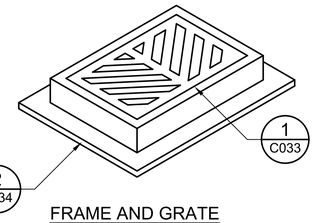
1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS.
6. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
7. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'.
8. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2 INCH PER FOOT.
9. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62IE. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
10. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
11. FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT/APWA STANDARD DRAWING B-5.60-01.
12. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
13. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

CATCH BASIN TYPE 1

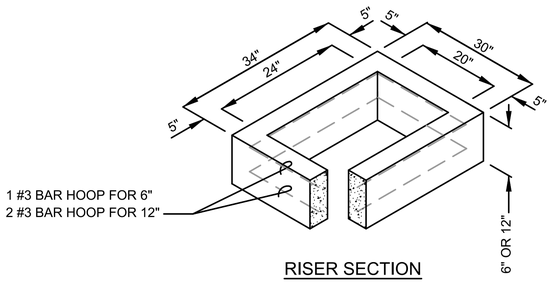
DETAIL 1 / C124

SCALE: NTS

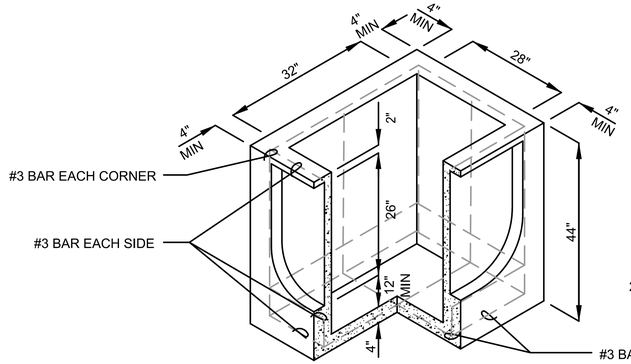
SOURCE: 2016 KCDTRSD



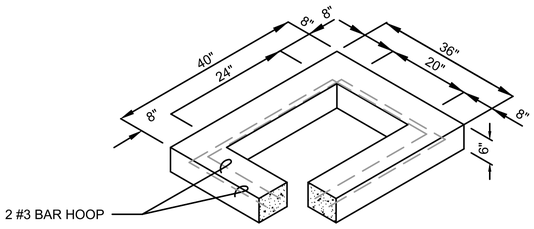
FRAME AND GRATE



RISER SECTION



PRECAST BASE SECTION
(MEASUREMENT AT THE TOP
OF THE BASE)



6" REDUCING SECTION

NOTES :

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS.
6. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
7. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2 INCH PER FOOT.
8. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62IE. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
9. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
10. THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'.
11. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
12. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

CATCH BASIN TYPE 1L

DETAIL 2 / C124

SCALE: NTS

SOURCE: 2016 KCDTRSD

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

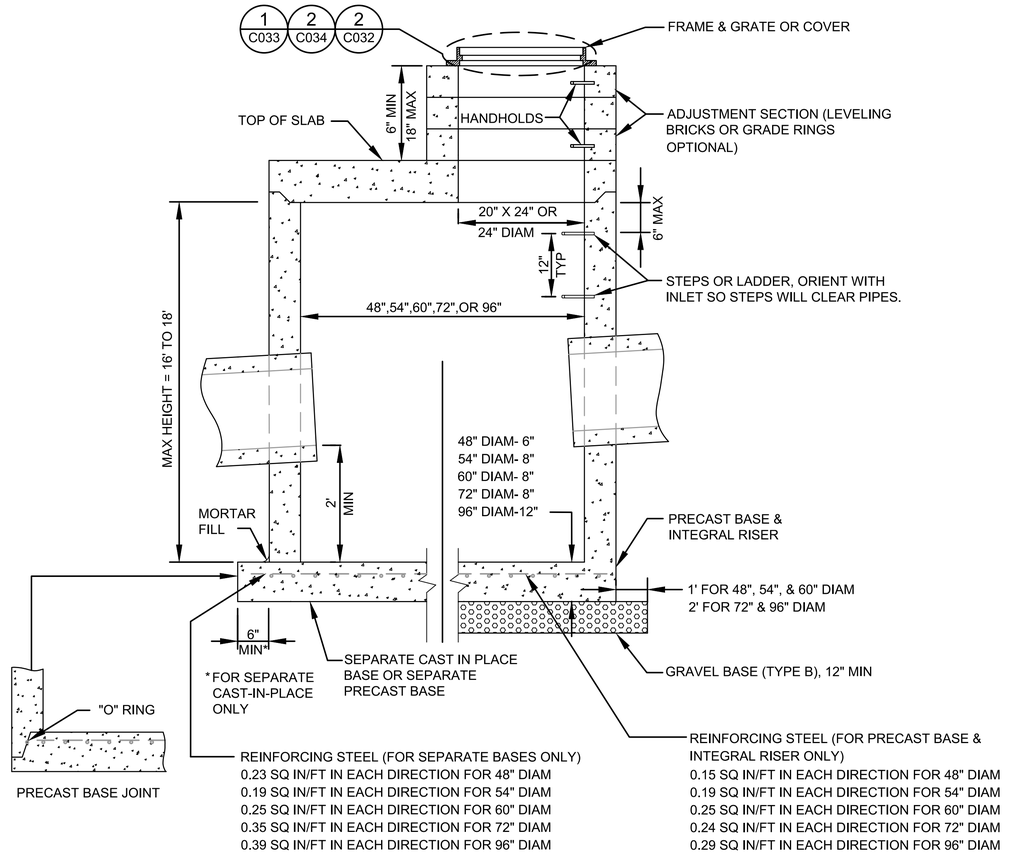
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR
UPGRADE - PUMP STATION IMPROVEMENTS

STORM DRAINAGE DETAILS

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C031
SHT NO / TOTAL	104 / 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\NMPS\E003006E13-NMPS-C031.dwg
PLOT DATE: 4/29/2019 2:55 PM
PLOTTED BY: Etulain, John

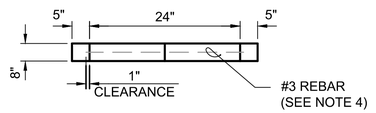


NOTES:

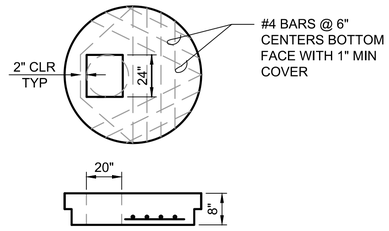
1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M199 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
2. HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MINIMUM CLEARANCE. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MINIMUM OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE MANHOLE.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2" MINIMUM. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE PROJECT REPRESENTATIVE.
5. KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL PIPE OUTER DIAMETER PLUS CATCH BASIN WALL THICKNESS. MAXIMUM HOLE SIZE SHALL BE 36" FOR 48" CATCH BASIN, 42" FOR 54" CATCH BASIN, 48" FOR 60" CATCH BASIN, 60" FOR 72" CATCH BASIN, 84" FOR 96" CATCH BASIN MINIMUM DISTANCE BETWEEN HOLES SHALL BE 8" FOR 48", 54", AND 60" CATCH BASIN; 12" FOR 72" AND 96" CATCH BASIN.
6. CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS, AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621E. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
7. ALL BASE REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MINIMUM CLEARANCE.
8. MINIMUM SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
9. FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS. SEE FIG. 7-006.
10. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SEC. 7-05.3 FOR JOINT REQUIREMENTS.
11. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

CATCH BASIN TYPE 2-48", 54", 60", 72", AND 96"

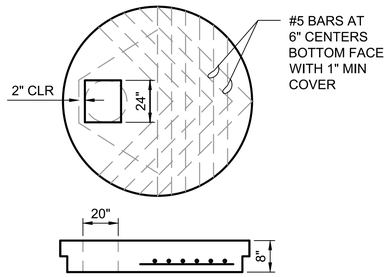
DETAIL 1 / C124
SCALE: NTS
SOURCE: 2017 KCDTRSD



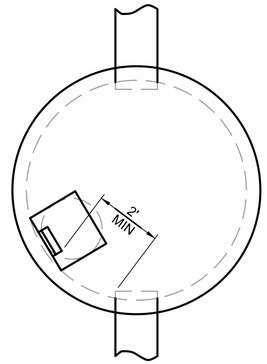
GRADE RING



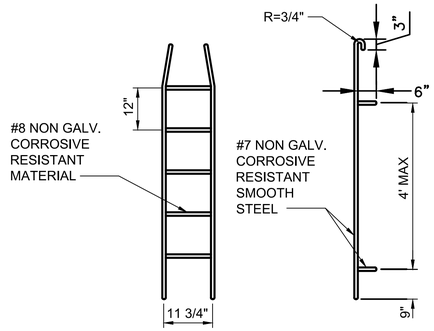
48", 54" & 60" TOP SLAB



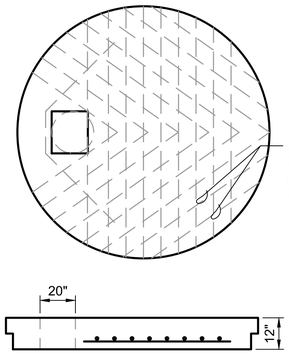
72" TOP SLAB



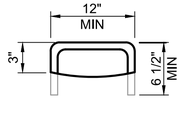
TYPICAL ORIENTATION FOR ACCESS AND STEPS



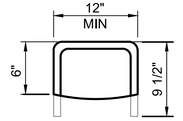
PREFABRICATED LADDER



96" TOP SLAB

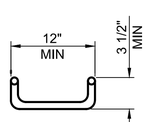


HANDHOLD

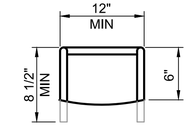


CATCH BASIN STEP

* ALL STEPS & RUNGS COPOLYMER PROPYLENE



ELEVATION



PLAN

DROP RUNG CATCH BASIN STEP

NOTES:

1. PROPRIETARY CATCH BASIN HANDHOLDS AND STEPS MAY BE ACCEPTABLE, PROVIDED THAT THEY CONFORM TO SEC. R, ASTM C478, AASHTO M-199 AND MEET ALL WISHA REQUIREMENTS.
2. CATCH BASIN STEP/HANDHOLD LEGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY CATCH BASIN SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A LEG IS PROHIBITED.
3. HANDHOLDS AND STEPS SHALL HAVE "DROP" RUNGS AS SHOWN ON DETAIL OR PROTUBERANCES TO PREVENT SIDEWAYS SLIP.
4. SLAB OPENING MAY BE 24" x 20" OR 24" DIAMETER.
5. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.012 SQUARE INCH PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497.
6. LADDERS OR STEPS SHALL EXTEND TO WITHIN 16" OF BOTTOM OF CATCH BASIN.
7. HANGING LADDERS SHALL BE PERMANENTLY FASTENED AT TOP BY HANGING ON STEP OR BY BOLTING OR EMBEDDING IN CONCRETE. EACH SHALL BE EMBEDDED AT BOTTOM IN BASE.
8. ADDITIONAL SAFETY FEATURES MAY BE REQUIRED IN VERY DEEP OR UNUSUAL STRUCTURES.
9. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

CATCH BASIN TYPE 2 DETAILS

DETAIL 2 / C124
SCALE: NTS
SOURCE: 2017 KCDTRSD

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

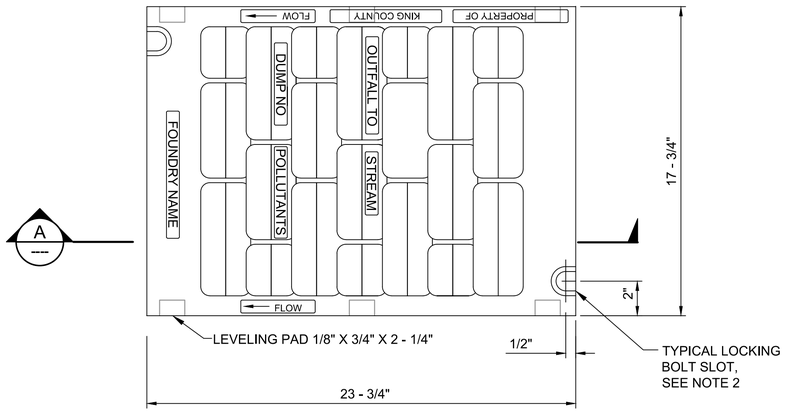
DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

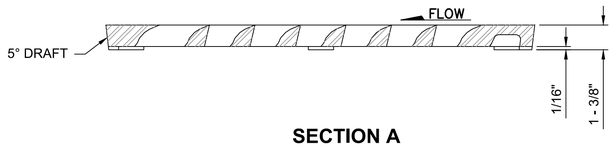
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
STORM DRAINAGE DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C032**
SHT NO / TOTAL: 105 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C032.dwg
PLOT DATE: 4/29/2019 2:55 PM
PLOTTED BY: Etuiain, John



PLAN



SECTION A

NOTES:

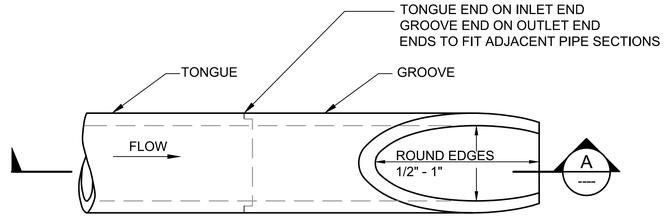
1. SELF-LOCK VANED GRATE MANUFACTURER SUBJECT TO APPROVAL BY PROJECT REPRESENTATIVE.
2. USE WITH TWO LOCKING BOLTS 5/8 INCH -11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 INCH LONG. SLOTS FORMED AND RECESSED TO FIT LOCKING BOLTS.
3. MATERIAL SHALL BE DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. THE WORDS "PROPERTY OF KING COUNTY" SHALL BE OMITTED IF GRATE IS ON PRIVATE SYSTEM.
6. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

VANED GRATE

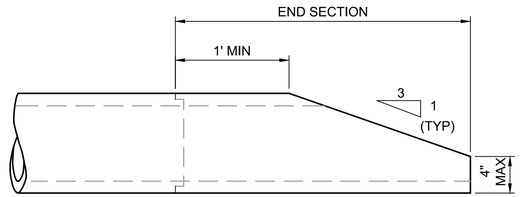
DETAIL 1 / VARIES

SCALE: NTS

SOURCE: 2017 KCDTRSD

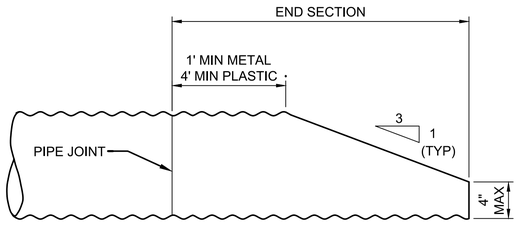


PLAN



SECTION A

CONCRETE PIPE



METAL & PLASTIC PIPE

NOTES:

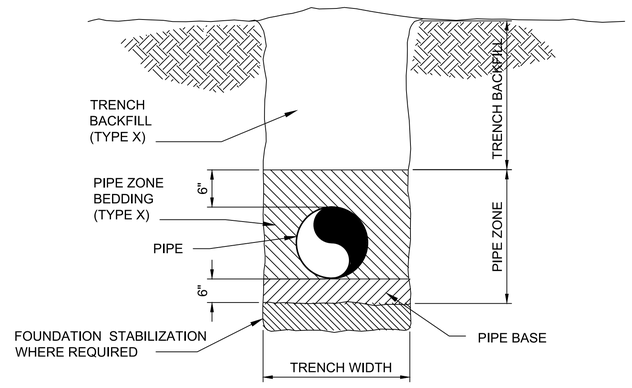
1. SIDE SLOPE SHALL BE GRADED TO MATCH THE BEVELED PIPE END.
2. PIPE SHALL BE BEVELED TO MATCH SLOPE IF SLOPE DIFFERS FROM 3:1.
3. PIPE SHALL BE ROTATED TO CONFORM TO SLOPE WHEN ON SKEW.

BEVELED END PIPE SECTION

DETAIL 2 / C124

SCALE: NTS

SOURCE: 2017 KCDTRSD



STORM DRAINAGE
PIPE ZONE BEDDING AND BACKFILL

DETAIL 3 / NOTES

SCALE: NTS

SOURCE: 2010 KCDNR&PWTD

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

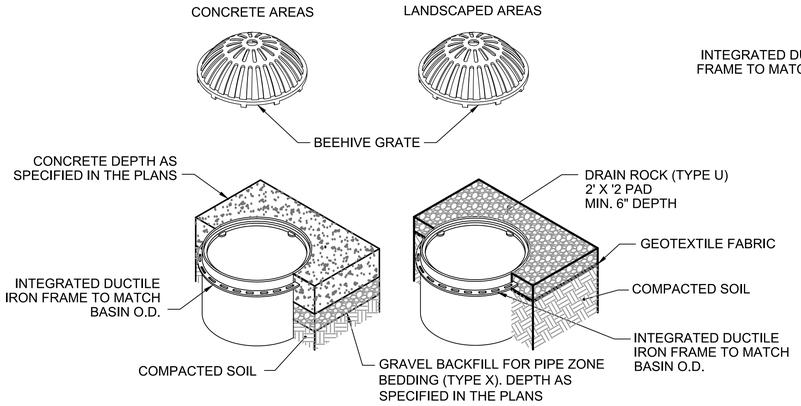
DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

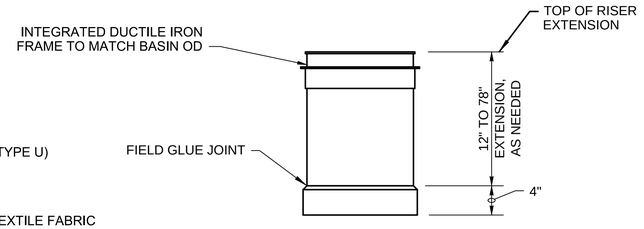
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR
UPGRADE - PUMP STATION IMPROVEMENTS
STORM DRAINAGE DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C033**
SHT NO / TOTAL: 106 / 393
REV NO:

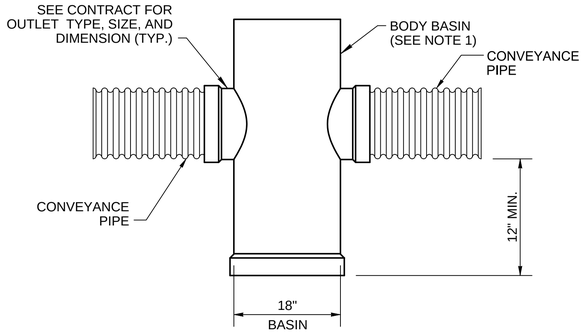
BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C033.dwg
PLOT DATE: 4/29/2019 2:55 PM
PLOTTED BY:Etuldin, John



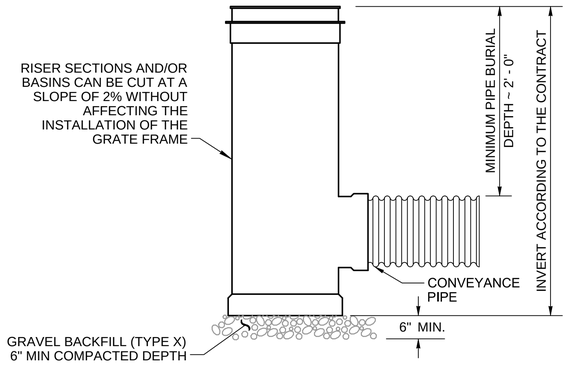
FRAME AND GRATE



RISER EXTENSION



BASIN BODY



ELEVATION VIEW

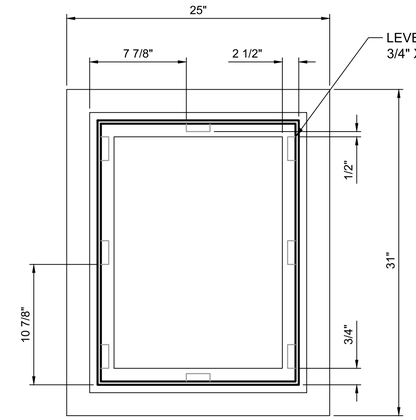
NOTES:

1. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. THE MAXIMUM DEPTH FROM FINISHED GRADE TO THE LOWEST INVERT SHALL BE 8'.
2. DRAINAGE CONNECTIONS SHALL UTILIZE FLEXABLE ELASTOMETRIC SEALS CONFORMING TO ASTM F477 AND SHALL MEET THE REQUIREMENTS OF ASTM D3212.
3. RISERS CAN BE TRIMMED DOWN TO 3" EXTENSION WITHOUT INTERFERING WITH THE INSTALLATION OF THE FRAME.
4. BASINS SHALL BE MANUFACTURED FROM PVC PIPE STOCK MEETING THE REQUIREMENTS OF ASTM D1784, CELL CLASSIFICATION 12454.
5. DUCTILE IRON CASTINGS FOR PVC CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A536, GRADE 70-50-05, AND SHALL MEET THE PROOF LOAD TESTING REQUIREMENTS OF AASHTO M 306.
6. BOLT-DOWN CAPABILITY IS REQUIRED ON ALL FRAMES, GRATES, AND COVERS, UNLESS SPECIFIED OTHERWISE IN THE CONTRACT. PROVIDE 2 HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE OR COVER SLOTS. THE FRAME SHALL ACCEPT THE 304 STAINLESS STEEL (SS) 5/8" - 11 NC × 2" ALLEN HEAD CAP SCREW BY BEING TAPPED, OR OTHER APPROVED MECHANISM. LOCATION OF BOLT-DOWN HOLES VARIES BY MANUFACTURER.

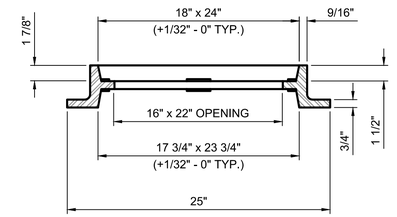
YARD DRAIN

DETAIL 1 / C124

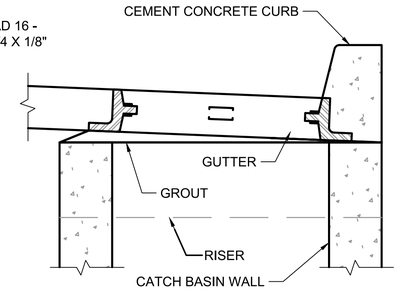
SCALE: NTS



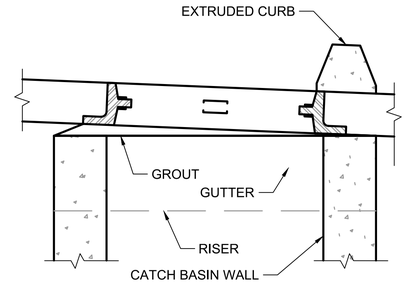
PLAN



SECTION



VERTICAL CURB



EXTRUDED CURB

NOTES:

1. DRILL AND TAP FOR, AND PROVIDE, TWO LOCKING BOLTS 5/8 IN.-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) CAP SCREWS 2 IN. LONG WHEN USED WITH SOLID COVER (FIG. 7-015) OR WHEN SPECIFIED BY PROJECT REPRESENTATIVE.
2. FRAME MATERIAL IS DUCTILE IRON PER ASTM A48 CLASS 30.
3. SET FRAME TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
4. SEE WSDOT/APWA STANDARD SPECIFICATIONS SECTION. 7.05.
5. SEE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

STANDARD FRAME WITH VERTICAL OR EXTRUDED CURB INSTALLATION

DETAIL 2 / VAR

SCALE: NTS

SOURCE: 2016 KCDTRSD

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWN	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

STORM DRAINAGE DETAILS

DCN:

DATE: 05/02/2019

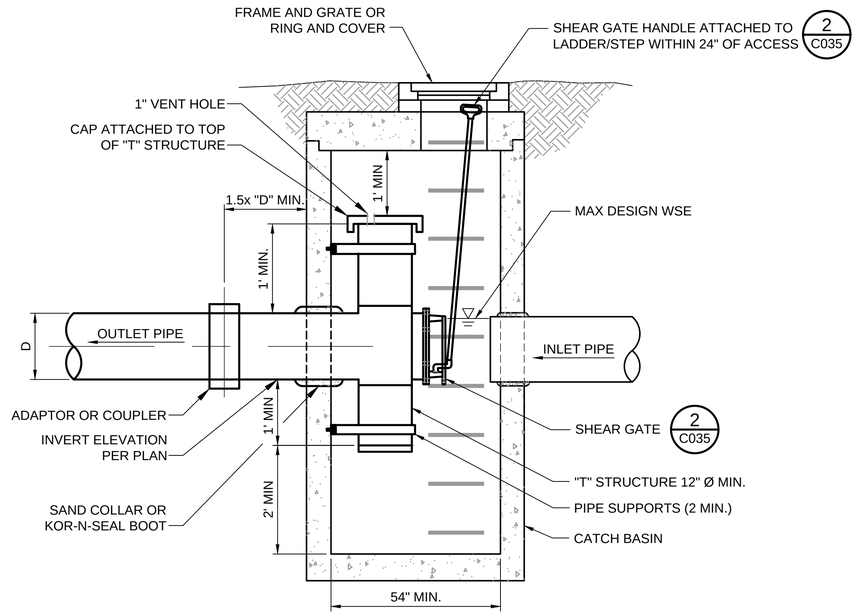
PROJECT FILE NO:

DRAWING NO: **C034**

SHT NO / TOTAL: 107 / 393

REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C034.dwg
PLOT DATE: 4/29/2019 2:56 PM
PLOTTED BY:Etuldin, John

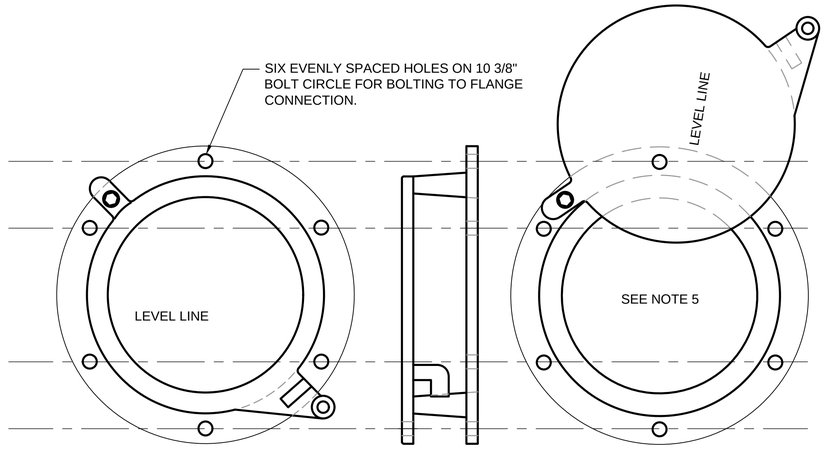


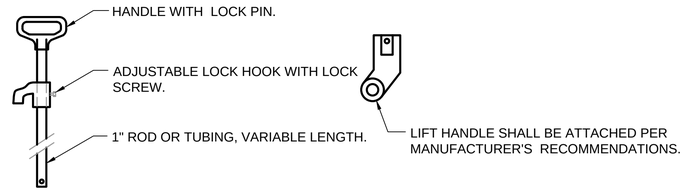
NOTES:

1. THE "T" STRUCTURE SHALL BE FABRICATED FROM 0.060" ALUMINUM, PVC, CPE, OR HDPE PIPE.
2. PIPE SUPPORTS SHALL BE STAINLESS STEEL STRAP WITH 5/8"Ø STAINLESS STEEL BOLTS. EITHER EXPANSION BOLTS OR EMBEDDED 2" INTO THE WALL.
3. THE VERTICAL RISER STEM OF THE "T" STRUCTURE SHALL BE THE SAME DIAMETER AS THE HORIZONTAL OUTLET PIPE AND ANGLED PLUMB VERTICALLY. HORIZONTAL SECTION SHALL MATCH OUTLET PIPE SLOPE.
4. OUTLET SHALL BE CONNECTED TO STORM DRAINAGE PIPE WITH SUITABLE GASKETED ADAPTOR, COUPLER, OR GROUTED INTO THE BELL IF CONCRETE PIPE IS USED.
5. APPLY NON-SHRINK GROUT INSIDE AND OUTSIDE OF ALL JOINTS, RINGS, RISERS, FRAMES, AND PIPE PENETRATIONS.

SPILL CONTROL

DETAIL 1 / C124
SCALE: NTS





LIFT HANDLE

NOTES:

1. SHEAR GATE SHALL BE ALUMINUM ALLOY PER ASTM B-26-ZG-32A OR CAST IRON ASTM A48 CLASS 30B AS REQUIRED.
2. GATE SHALL BE 8 IN. DIAM. UNLESS OTHERWISE SPECIFIED.
3. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.
4. LIFT ROD: AS SPECIFIED BY MFR. WITH HANDLE EXTENDING TO WITHIN ONE FOOT OF COVER AND ADJUSTABLE HOOK LOCK FASTENED TO FRAME OR UPPER HANDHOLD.
5. GATE SHALL NOT OPEN BEYOND THE CLEAR OPENING BY LIMITED HINGE MOVEMENT, STOP TAB, OR SOME OTHER DEVICE.
6. NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE.
7. MATING SURFACES OF LID AND BODY TO BE MACHINED FOR PROPER FIT.
8. FLANGE MOUNTING BOLTS SHALL BE 3/8 IN. DIAM. STAINLESS STEEL.
9. ALTERNATE CLEANOUT/SHEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE, PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT, 10 3/8 IN. BOLT CIRCLE FOR BOLTING TO THE FLANGE CONNECTION.
10. SEE THE WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9-05.15 FOR METAL CASTINGS REQUIREMENTS.

TEE SECTION SHEAR GATE

DETAIL 2 / C035
SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWN	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

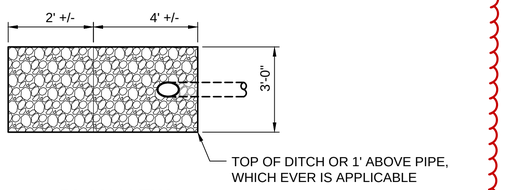
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
STORM DRAINAGE DETAILS

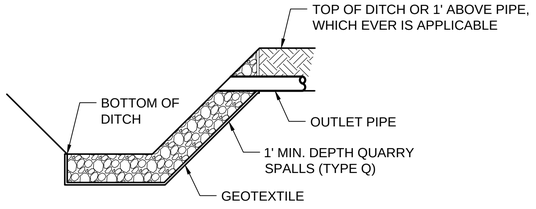
DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: C035
SHT NO / TOTAL: 108 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C035.dwg
PLOT DATE: 4/29/2019 2:56 PM
PLOTTED BY: Etuldin, John

THIS DETAIL HAS BEEN REMOVED AS THE RIP RAP SWALE ON C133 HAS BEEN REPLACED WITH A PIPED SYSTEM.



PLAN VIEW

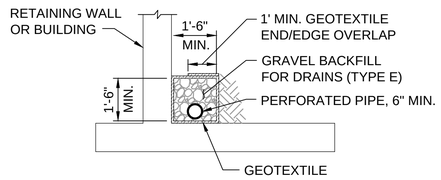


ELEVATION VIEW

ENERGY DISSIPATION PAD

DETAIL 1 / C124

SCALE: NTS

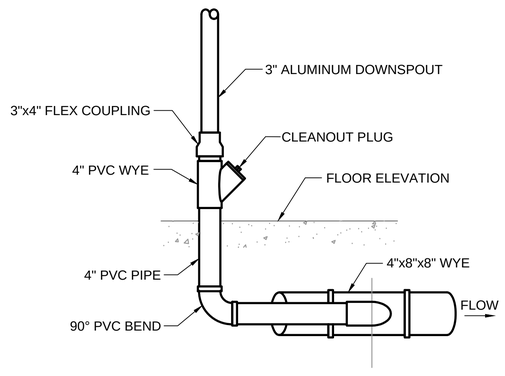


ELEVATION VIEW

FOOTING DRAIN

DETAIL 3 / C124

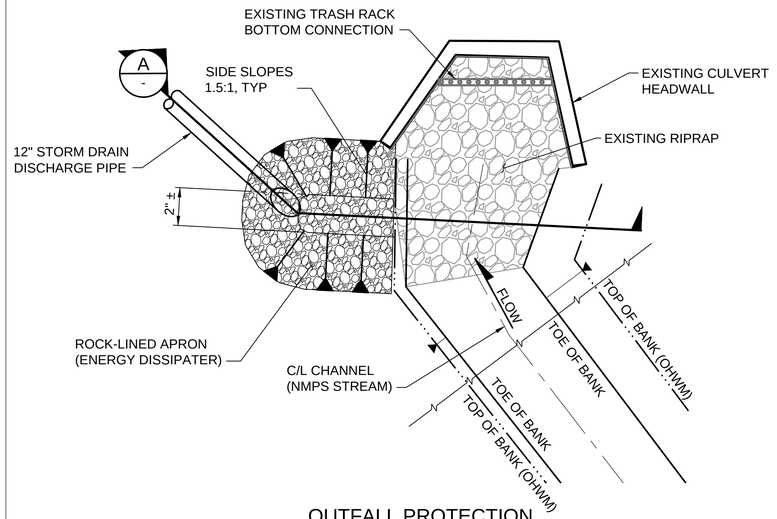
SCALE: NTS



DOWNSPOUT TRANSITION

DETAIL 4 / C124

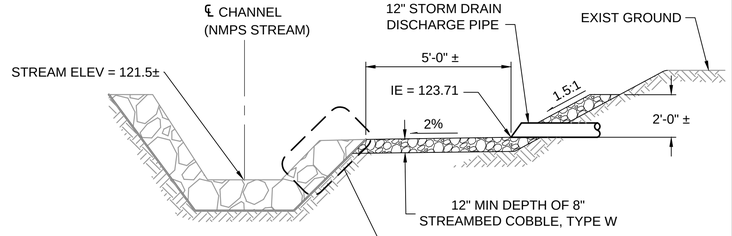
SCALE: NTS



OUTFALL PROTECTION

DETAIL 2 / C124

SCALE: NTS



OUTFALL PROTECTION

SECTION A / -

SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING

INFORMATION ONLY

DRAFT

MERCER ISLAND LAND USE SET

SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWN	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION

NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

STORM DRAINAGE DETAILS

DCN:

DATE: 03/9/2020

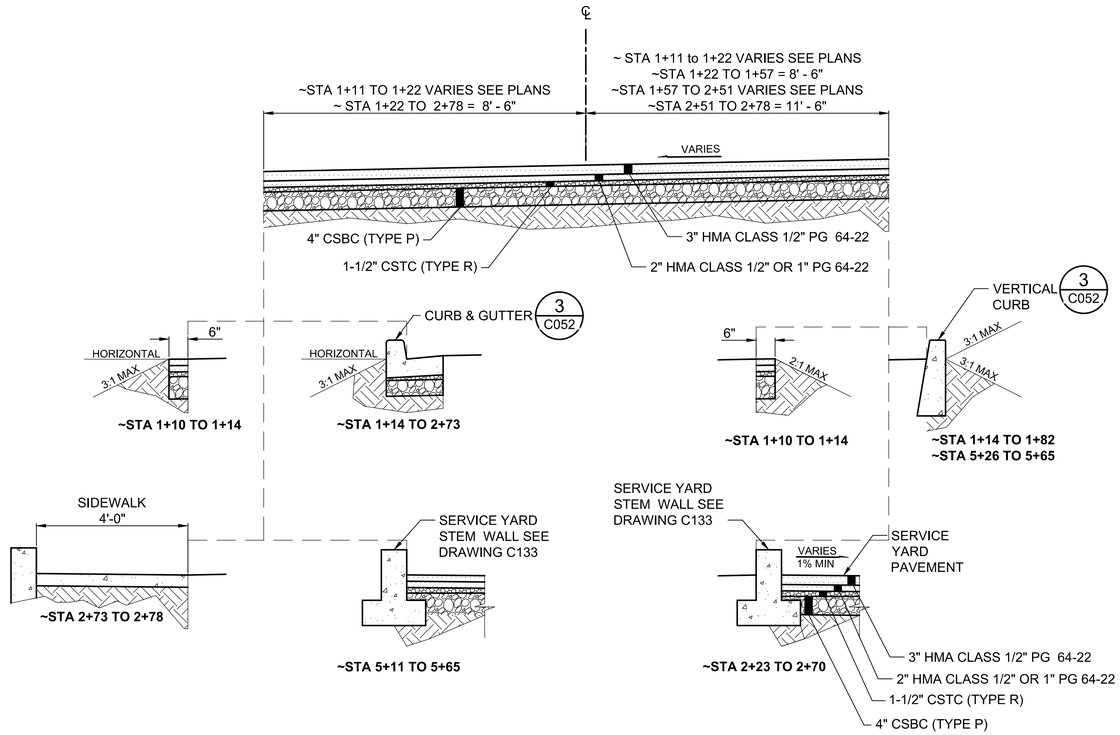
PROJECT FILE NO:

DRAWING NO: **C036**

SHT NO / TOTAL: /

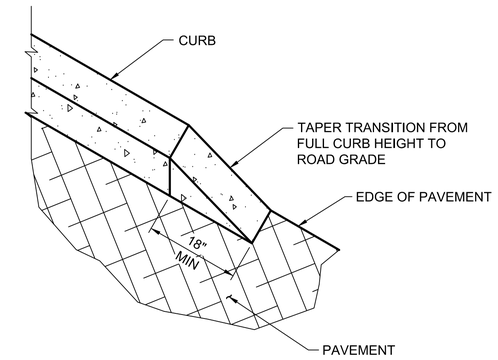
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C036.dwg
PLOT DATE: 9/26/2019 3:01 PM
PLOTTED BY: Aurio Isaac



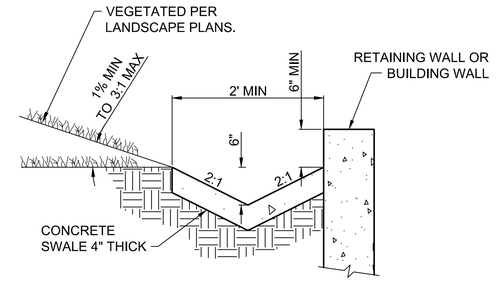
TYPICAL ROADWAY SECTIONS

DETAIL 1 VAR
SCALE: NTS



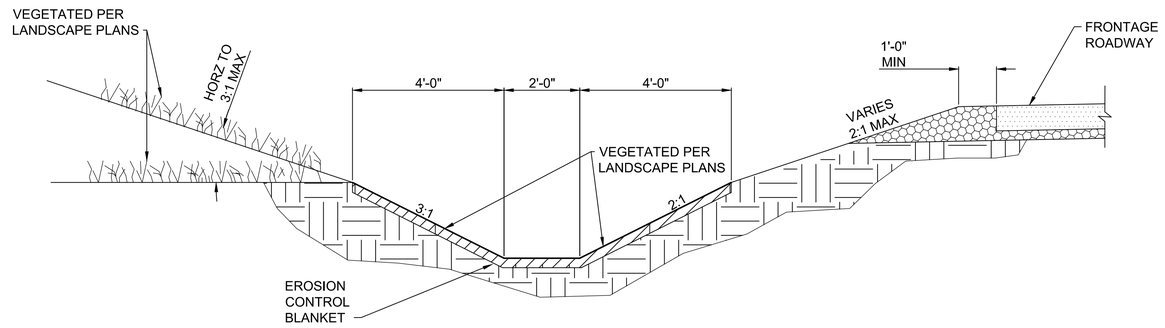
CURB TRANSITION

DETAIL 2 C141
SCALE: NTS



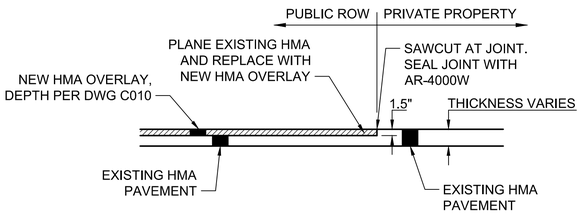
CONCRETE SWALE

DETAIL 3 VAR
SCALE: NTS



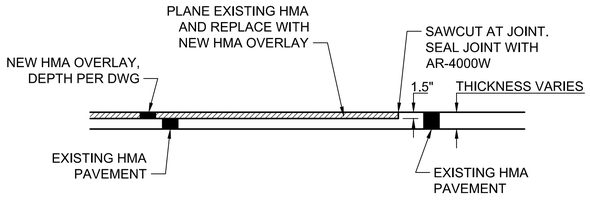
FRONTAGE SWALE

DETAIL 4 C141
SCALE: NTS



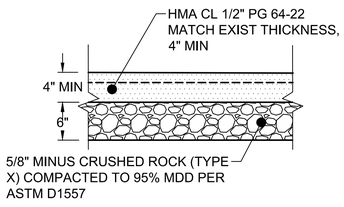
HMA DRIVEWAY

DETAIL 5 -
SCALE: NTS



BUTT JOINT

DETAIL 6 -
SCALE: NTS



CITY OF MERCER ISLAND ROADWAY

DETAIL 7 -
SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

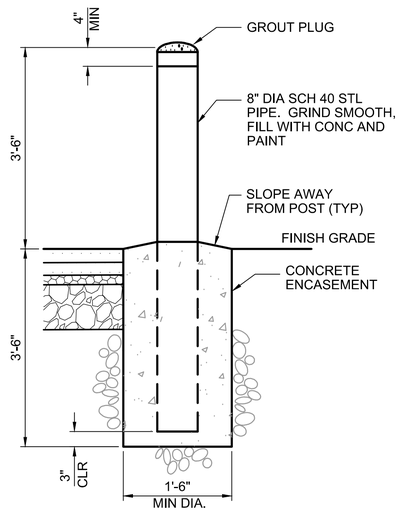
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR
UPGRADE - PUMP STATION IMPROVEMENTS

ROAD SECTIONS AND SITE DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C051**
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C051.dwg
PLOT DATE: 8/1/2019 4:41 PM
PLOTTED BY: D'Auria, Isaac



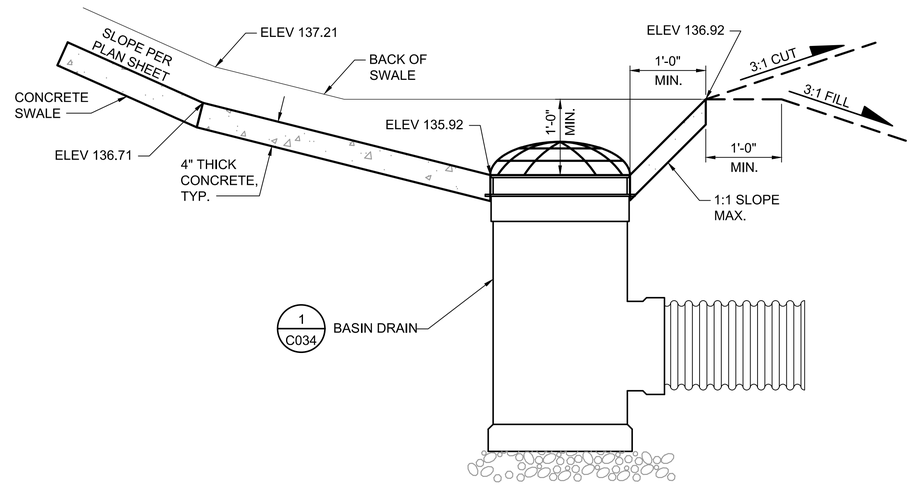
BOLLARDS

DETAIL 1/C141

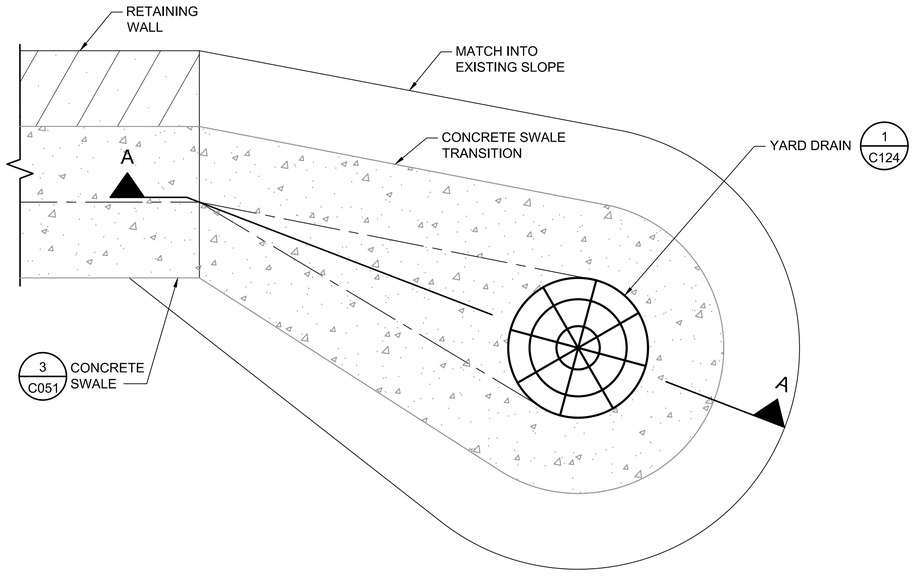
SCALE: NTS

NOTE:

1. BOLLARDS TO BE PLACED AS SHOWN ON DRAWINGS OR AS DIRECTED BY PROJECT REPRESENTATIVE.
2. REFER TO PSE ELECTRIC SERVICE HANDBOOK, JUNE 2017, FOR BOLLARD SPACING GUIDELINES.



SECTION A-A

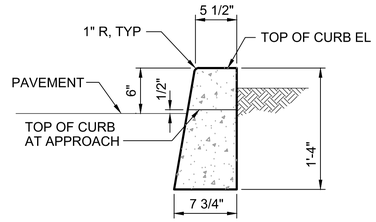


PLAN

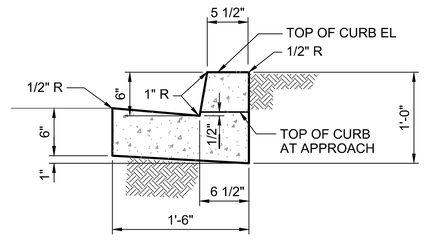
SWALE DRAIN

DETAIL 2/C141

SCALE: NTS



CEMENT CONCRETE VERTICAL CURB



CEMENT CONCRETE CURB AND GUTTER

CURB & GUTTER

DETAIL 3/C051

SCALE: NTS

NOTE:

GUTTER SHALL BE SLOPED THE SAME AS ADJACENT PAVEMENT WHEN THE PAVEMENT SLOPES AWAY FROM THE GUTTER.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

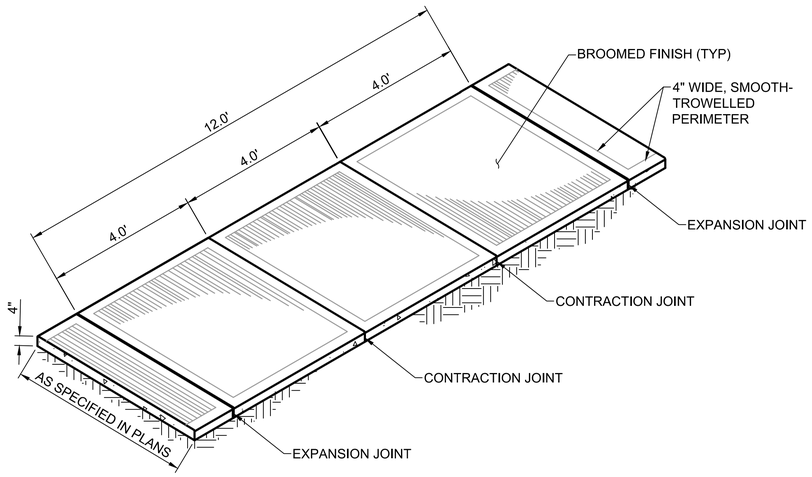
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

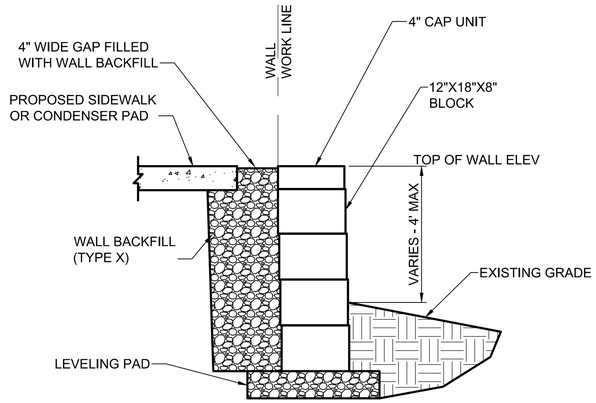
SITE DETAILS

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C052
SHT NO / TOTAL	/
REV NO:	

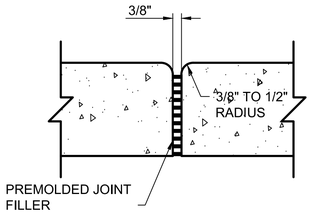
BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C052.dwg
PLOT DATE: 8/1/2019 4:40 PM
PLOTTED BY: D'Auria, Isaac



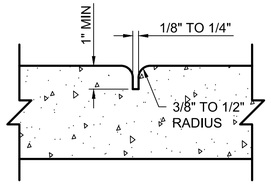
ISOMETRIC VIEW
JOINT AND FINISH
DETAIL



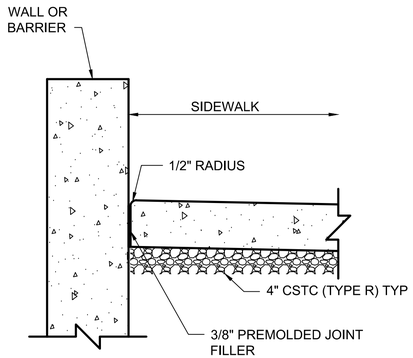
TYPICAL WALL SECTION



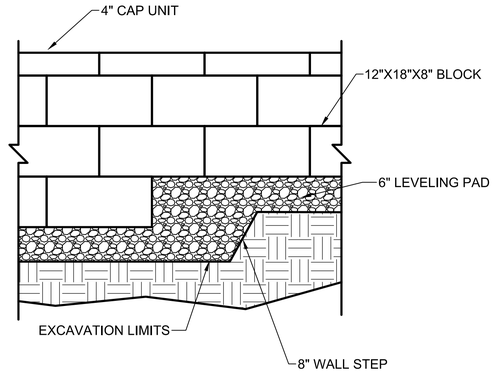
EXPANSION JOINT



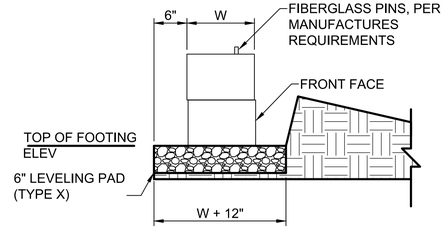
CONTRACTION JOINT



SIDEWALK ADJACENT TO WALL OR BUILDING DETAIL



WALL ELEVATION



LEVELING PAD DETAIL

CONCRETE SIDEWALK
DETAIL 1 / C141
SCALE: NTS

SEGMENTAL CONCRETE BLOCK WALL
DETAIL 2 / C133
SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

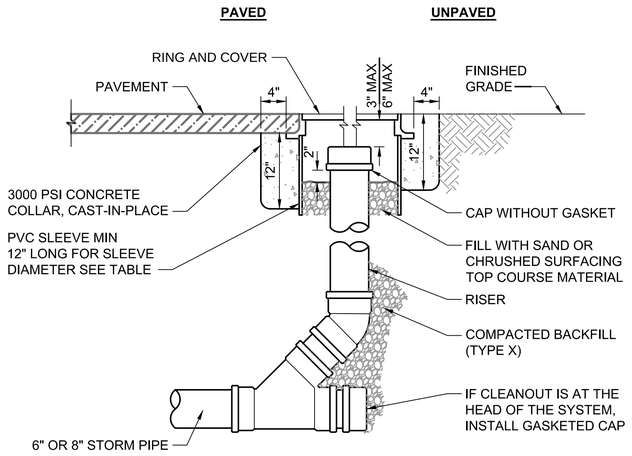
DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
SITE DETAILS

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C053
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C053.dwg
PLOT DATE: 8/1/2019 4:39 PM
PLOTTED BY: D'Auria, Isaac



CO PIPE DIAMETER	RING AND COVER DIAMETER	PVC SLEEVE DIAMETER
4"	12"	12"
6"	14"	15"
8"	14"	15"

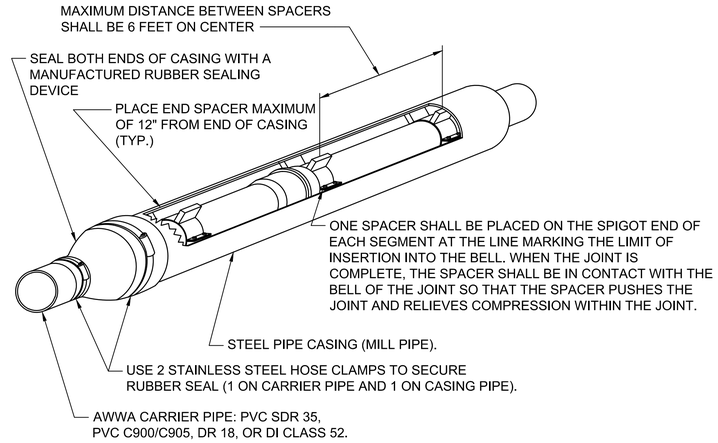
NOTES:

1. BOLT-LOCKING CAST IRON RING AND COVER SHALL BE USED IN PAVED AREAS AND MUST BE RATED HS-20.
2. CAST IRON COVER SHALL READ "DRAIN".
3. LOCKING BOLTS SHALL BE 5/8" - 11 N.C. 304 STAINLESS STEEL SOCKET (ALLEN) HEAD, 2" LONG.

CLEANOUT TO GRADE

DETAIL 1 / VAR

SCALE: NTS



CARRIER PIPE DIAMETER	6"	12"	16"	18"
CASING DIAMETER	12"	20"	24"	30"
STEEL CASING THICKNESS	0.25"	0.25"	0.375"	0.50"
SPACER BAND WIDTH	8"	8"	8"	8"

NOTES:

1. CASING SPACERS SHALL BE "CENTER POSITIONING" TYPE.
2. FOR CASING SPACER INFORMATION, SEE SPEC 33 05 07.24 SECTION 2.03.
3. MINIMUM RUNNER WIDTH SHALL BE 2 INCHES.
4. RUNNER HEIGHT SHALL BE SIZED TO PROVIDE:
   A. MINIMUM 0.75" BETWEEN CARRIER PIPE BELL AND CASING PIPE WALL AT ALL TIMES.
   B. MINIMUM 1" CLEARANCE BETWEEN RUNNERS AND TOP OF CASING WALL TO PREVENT JAMMING DURING INSTALLATION.
5. STEEL CASING DIAMETERS ARE "OUTSIDE DIAMETER" FOR 16" AND LARGER.
6. SPACER BAND WIDTH SHALL BE 12" FOR CARRIER PIPES THAT ARE 36" DIAMETER OR GREATER.
7. BEDDING SHALL BE PER DETAIL 3 OF DRAWING 1/C123.
8. ANNULAR SPACE TO BE FILLED WITH MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS.

CASING INSTALLATION

DETAIL 2 / C123

SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	0 REFERENCE 1"
DESIGN APPROVAL: R. BROWN	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

MISC DETAILS

DCN:

DATE: 05/02/2019

PROJECT FILE NO:

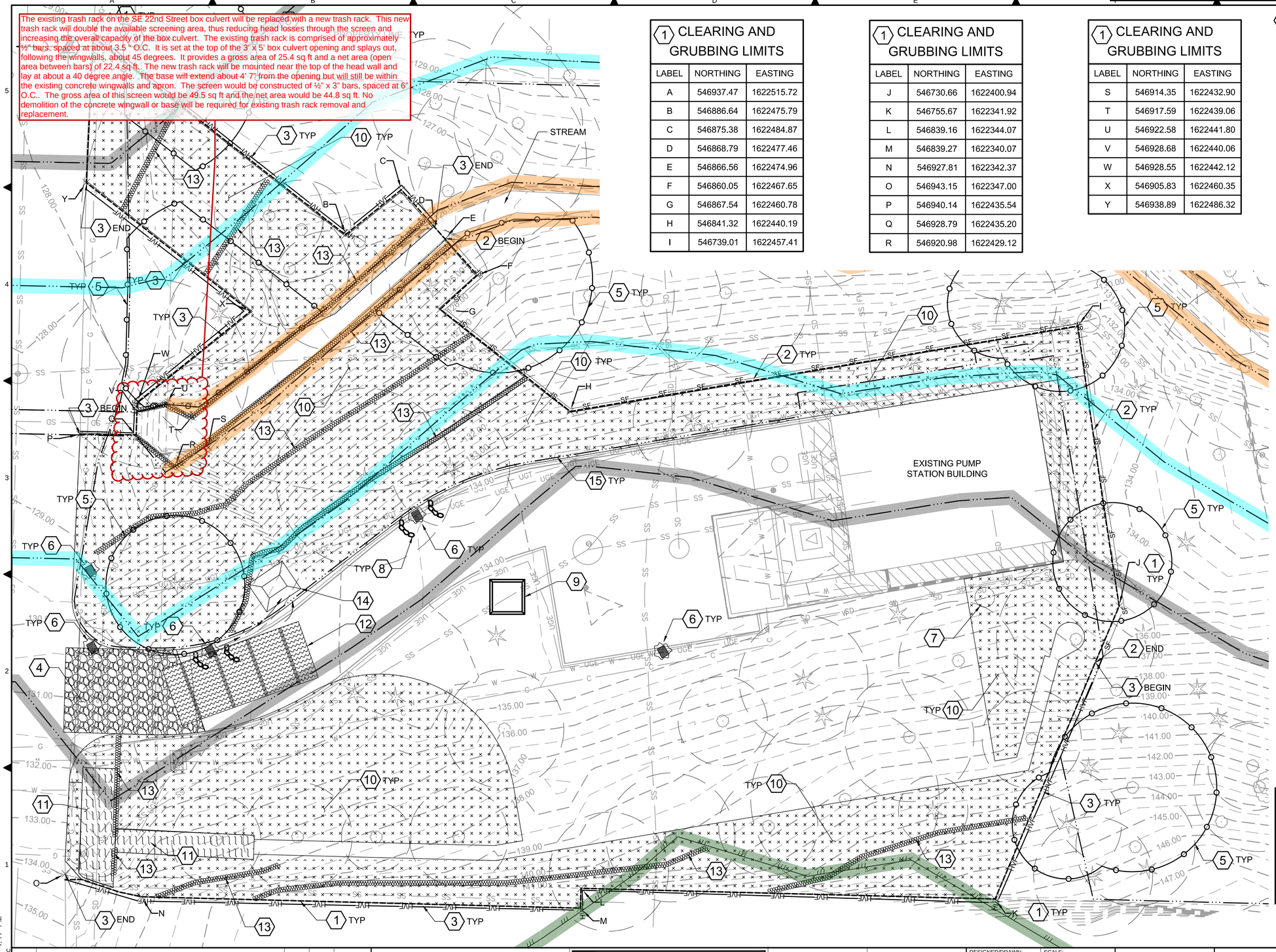
DRAWING NO: C061

SHT NO / TOTAL: /

REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C061.dwg
PLOT DATE: 8/1/2019 4:39 PM
PLOTTED BY:D'Auria, Isaac

The existing trash rack on the SE 22nd Street box culvert will be replaced with a new trash rack. This new trash rack will double the available screening area, thus reducing head losses through the screen and increasing the overall capacity of the box culvert. The existing trash rack is comprised of approximately ½" bars, spaced at about 3.5 " O.C. It is set at the top of the 3' x 5' box culvert opening and splays out, following the wingwalls, about 45 degrees. It provides a gross area of 25.4 sq ft and a net area (open area between bars) of 22.4 sq ft. The new trash rack will be mounted near the top of the head wall and lay at about a 40 degree angle. The base will extend about 4' 7" from the opening but will still be within the existing concrete wingwalls and apron. The screen would be constructed of ½" x 3" bars, spaced at 6" O.C.. The gross area of this screen would be 49.5 sq ft and the net area would be 44.8 sq ft. No demolition of the concrete wingwall or base will be required for existing trash rack removal and replacement.



1 CLEARING AND GRUBBING LIMITS

LABEL	NORTHING	EASTING
A	546937.47	1622515.72
B	546886.64	1622475.79
C	546875.38	1622484.87
D	546868.79	1622477.46
E	546866.56	1622474.96
F	546860.05	1622467.65
G	546867.54	1622460.78
H	546841.32	1622440.19
I	546739.01	1622457.41

1 CLEARING AND GRUBBING LIMITS

LABEL	NORTHING	EASTING
J	546730.66	1622400.94
K	546755.67	1622341.92
L	546839.16	1622344.07
M	546839.27	1622340.07
N	546927.81	1622342.37
O	546943.15	1622347.00
P	546940.14	1622435.54
Q	546928.79	1622435.20
R	546920.98	1622429.12

1 CLEARING AND GRUBBING LIMITS

LABEL	NORTHING	EASTING
S	546914.35	1622432.90
T	546917.59	1622439.06
U	546922.58	1622441.80
V	546928.68	1622440.06
W	546928.55	1622442.12
X	546905.83	1622460.35
Y	546938.89	1622486.32

KEY NOTES:

1. PROJECT SITE CLEARING AND GRUBBING LIMITS.
2. SILT FENCE, SEE DETAIL 1/C012.
3. HIGH VISIBILITY FENCE, SEE DETAIL 3/C012.
4. CONSTRUCTION ENTRANCE, SEE DETAIL 2/C015.
5. TREE PROTECTION, SEE DRAWING D-C101 AND DETAIL 4/C012.
6. STORM DRAIN INLET PROTECTION ON ALL NEW AND EXISTING CB'S, SEE DETAIL 2/C012.
7. YARD DRAIN INLET PROTECTION, SEE DETAIL 1/C015.
8. CURB & GUTTER BARRIER PROTECTION, SEE DETAIL 2/C013.
9. CONCRETE WASHOUT BASIN/STRUCTURE.
10. COMPOST COVER, SEE NOTE 2.
11. EROSION CONTROL BLANKET, SEE DETAIL 1/C014.
12. CORRUGATED STEEL RUMBLE PLATE, SEE DETAIL 3/C015.
13. COMPOST SOCK, SEE DETAIL 1/C013.
14. SEDIMENT TRAP AS REQUIRED TO CONTAIN WASHOUT OF RUMBLE PLATE, SEE DETAIL 3/C014.
15. STREAM BUFFER LINE.

NOTES:

1. SELECTIVE CLEARING IS PROPOSED OUTSIDE OF LIMITS SHOWN. SEE DRAWING L101.
2. COMPOST COVER SHALL BE ORGANIC AMENDMENT, SPREAD TO A 3" UNIFORM DEPTH IN THE AREAS SHOWN IN THE PLANS.
3. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
4. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

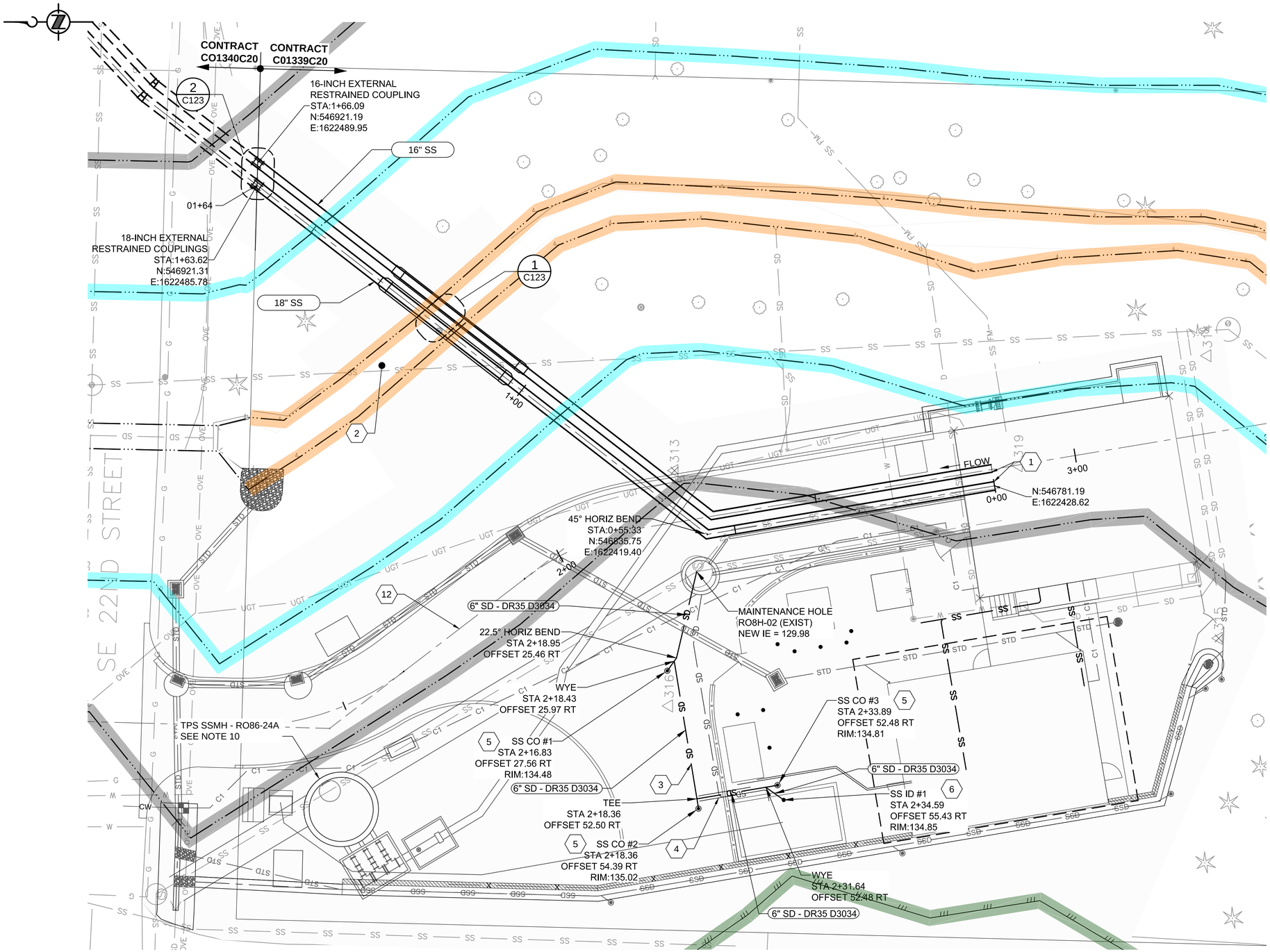
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

TESC SURFACE RUNOFF MANAGMENT PLAN

DCN:
DATE: 03/9/2020
PROJECT FILE NO:
DRAWING NO: C101
SHT NO / TOTAL: XXX /
REV NO:

BORDER FILE EDITION: KCWTD_2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C101.dwg
PLOT DATE: 9/26/2019 4:17 PM
PLOTTED BY: D'Auria, Isaac



KEY NOTES:

1. STATION 0+00 CORRESPONDS TO THE OUTSIDE FACE OF THE WALL PENETRATION INTO THE EXISTING PUMP STATION BUILDING. SEE DRAWING M202 FOR FORCE MAIN CONTINUATION.
2. FOR TEMPORARY STREAM DIVERSION INFORMATION, SEE DRAWING T-C101.
3. 6" SD BIOXIDE TANK SUMP DRAIN, SEE PROFILE DRAWING C122.
4. 10 LF CASING, SEE DETAIL 2/C061.
5. 6" CLEANOUT, SEE DETAIL 5/M013.
6. 6" INLINE DRAIN AND P-TRAP, SEE DETAIL 1/C022.

NOTES:

1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
3. PROTECT EXISTING UTILITIES AND UTILITY POLES WHERE CLOSE TO ALIGNMENT.
4. DEFLECT SS AS NECESSARY TO 80% OF MANUFACTURER'S MAX ALLOWABLE DEFLECTION.
5. 16 INCH AND 18 INCH SS WILL BE CL 52 DI UNLESS OTHERWISE NOTED. CL MAY BE INCREASED AS NEEDED FOR FITTINGS, SPOOLS AND APPURTENANCES PER MANUFACTURER REQUIREMENTS OR RECOMMENDATIONS. THE PIPELINES SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.
6. UNLESS OTHERWISE SHOWN, AT BENDS PROVIDE THE SAME TYPE FITTINGS FOR THE 16 INCH SS AS ARE SHOWN FOR THE 18 INCH SS AND LOCATE PER THE TRENCH SECTION SHOWN IN THE PROFILE ON DRAWING C122.
7. PIPE BEDDING AND BACKFILL INFORMATION SEE DETAIL 3/C021.
8. SEE M101 FOR SEWER LINES BETWEEN GENERATOR BUILDING AND PUMP STATION BUILDING.
9. SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
10. TEMPORARY MANHOLE, PUMPING STATION AND PIPELINE INFORMATION, SEE DRAWING T-C101.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

BORDER FILE EDITION: KCWTD_2012_Dsize_TB_Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13_NMPS_C121.dwg
PLOT DATE: 9/26/2019 4:20 PM
PLOTTED BY:D'Auria, Isaac

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

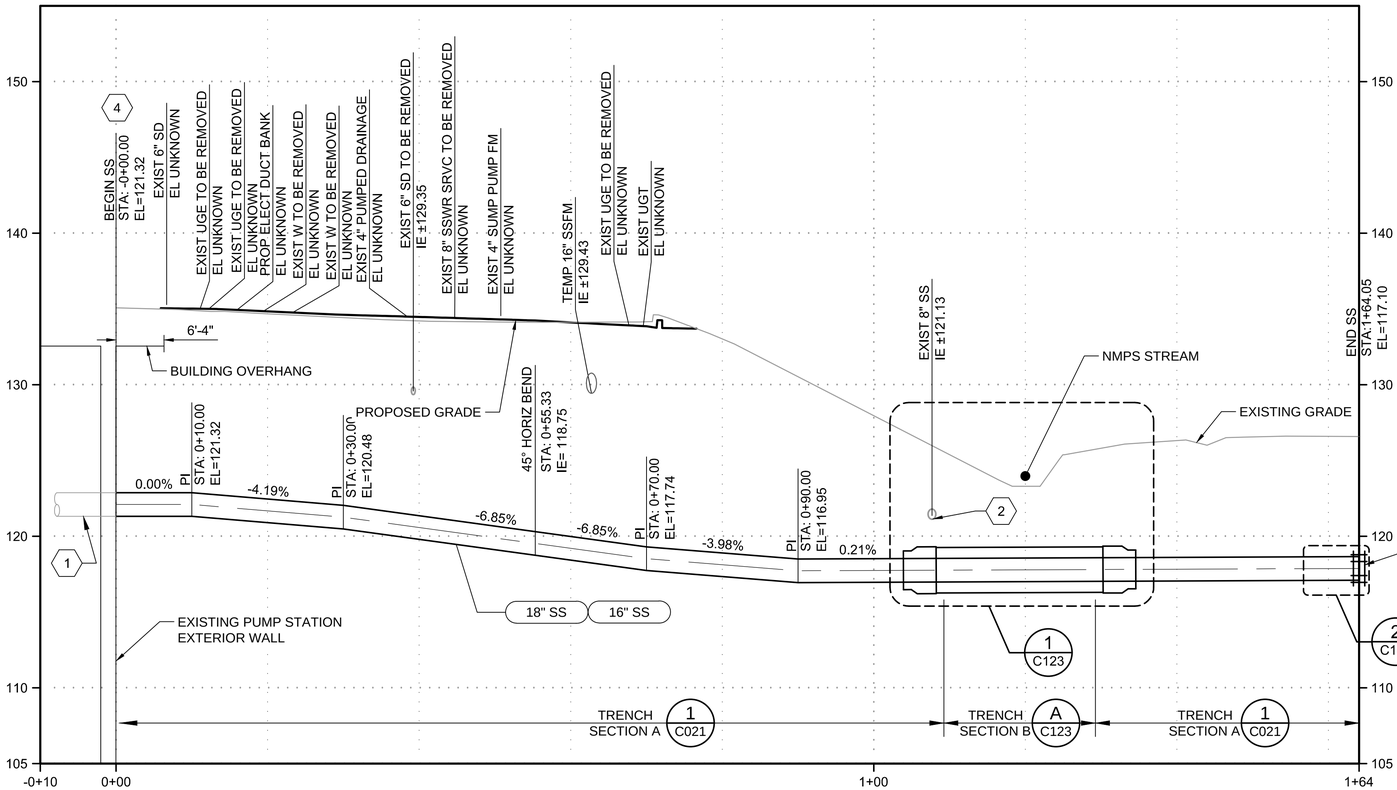
DESIGNED/DRAWN: B. NELSON	SCALE: 1:10
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

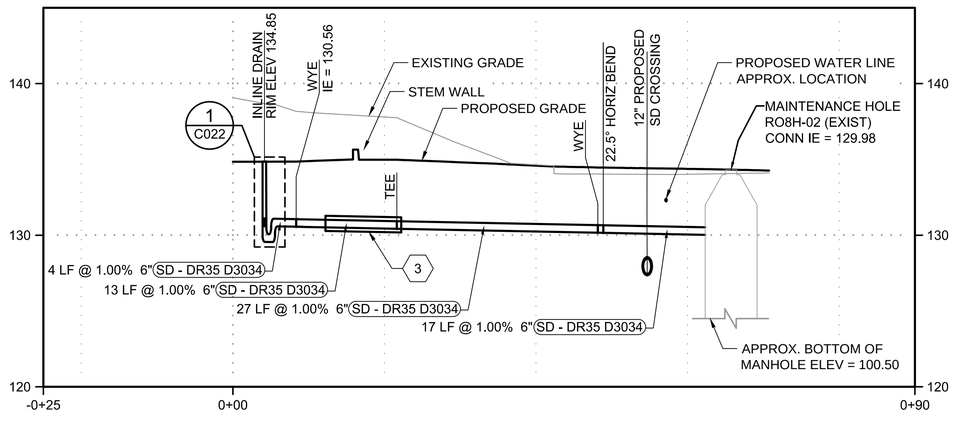
SEWER PLAN

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C121**
SHT NO / TOTAL: /
REV NO:



FORCE MAIN PROFILE

SCALE: HORZ - 1" = 10'
VERT - 1" = 5'



BIOXIDE TANK SUMP DRAIN PROFILE

SCALE: HORZ - 1" = 10'
VERT - 1" = 5'

KEY NOTES:

1. SEE DRAWING M202 FOR FORCE MAIN CONTINUATION.
2. PROVIDE SUPPORT FOR EXIST SS PIPE WHERE EXPOSED DURING TRENCH EXCAVATION.
3. 10 LF CASING, SEE DETAIL 2/C061.
4. INVERT ELEVATION SHOWN IS FOR THE 18" SS PIPELINE. THE INVERT ELEVATION FOR THE 16" SS PIPELINE AT THIS LOCATIONS IS 121.41. MAINTAIN THIS PIPE ELEVATION TO STATION 0+10 AND THEN TRANSITION 16" PIPELINE INVERT TO MATCH THAT OF THE 18" PIPELINE ELEVATION.

NOTES:

1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
3. PROTECT EXISTING UTILITIES AND UTILITY POLES WHERE CLOSE TO ALIGNMENT.
4. DEFLECT FM AS NECESSARY TO 80% OF MANUFACTURER'S MAX ALLOWABLE DEFLECTION.
5. 16 INCH AND 18 INCH SS WILL BE CL 52 DI UNLESS OTHERWISE NOTED. CL MAY BE INCREASED AS NEEDED FOR FITTINGS, SPOOLS AND APPURTENANCES PER MANUFACTURER REQUIREMENTS OR RECOMMENDATIONS. THE PIPELINES SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.
6. UNLESS OTHERWISE SHOWN, AT BENDS PROVIDE THE SAME TYPE FITTINGS FOR THE 16 INCH SS AS ARE SHOWN FOR THE 18 INCH SS AND LOCATE PER THE TRENCH SECTION SHOWN ON DWG C021.
7. REFER TO DRAWING M223 FOR PIPE BONDING DETAILS.

FOR REFERENCE ONLY

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C122.dwg
PLOT DATE: 6/28/2019 11:47 AM
PLOTTED BY: D'Aurio, Isaac

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

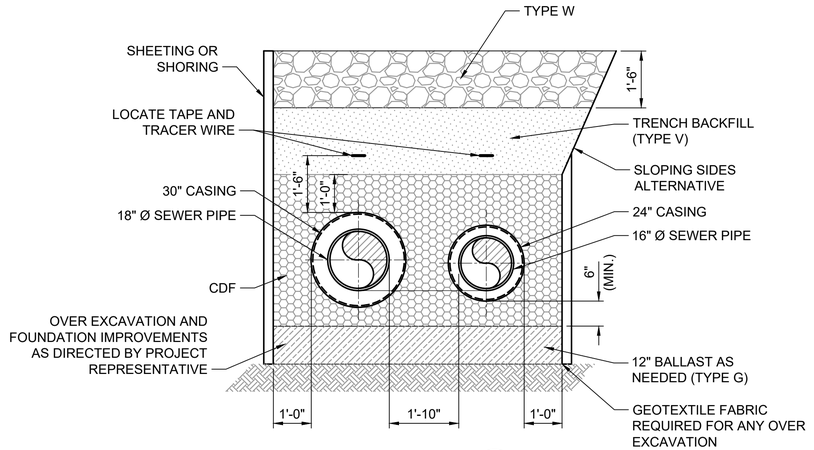
PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: B. NELSON	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

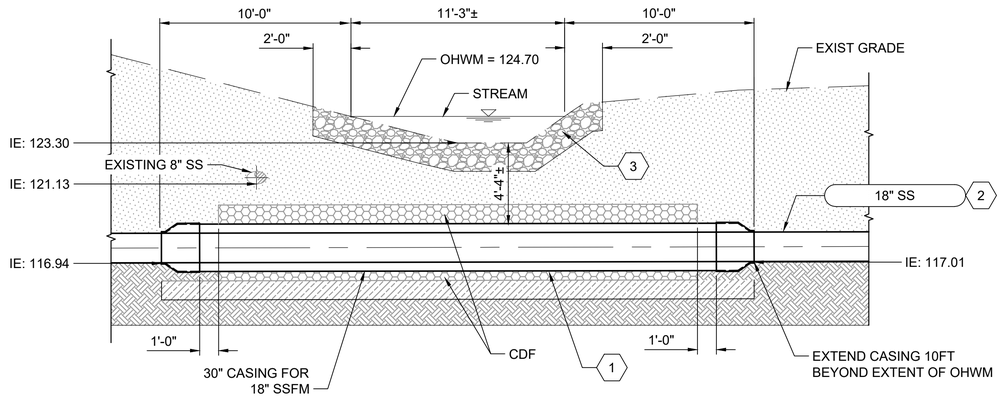
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
SEWER PROFILE

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C122
SHT NO / TOTAL	/
REV NO:	



SECTION A
SCALE: 1/2" = 1'-0"



SECTION B
SCALE: 1/4" = 1'-0"

CRITICAL AREAS LEGEND

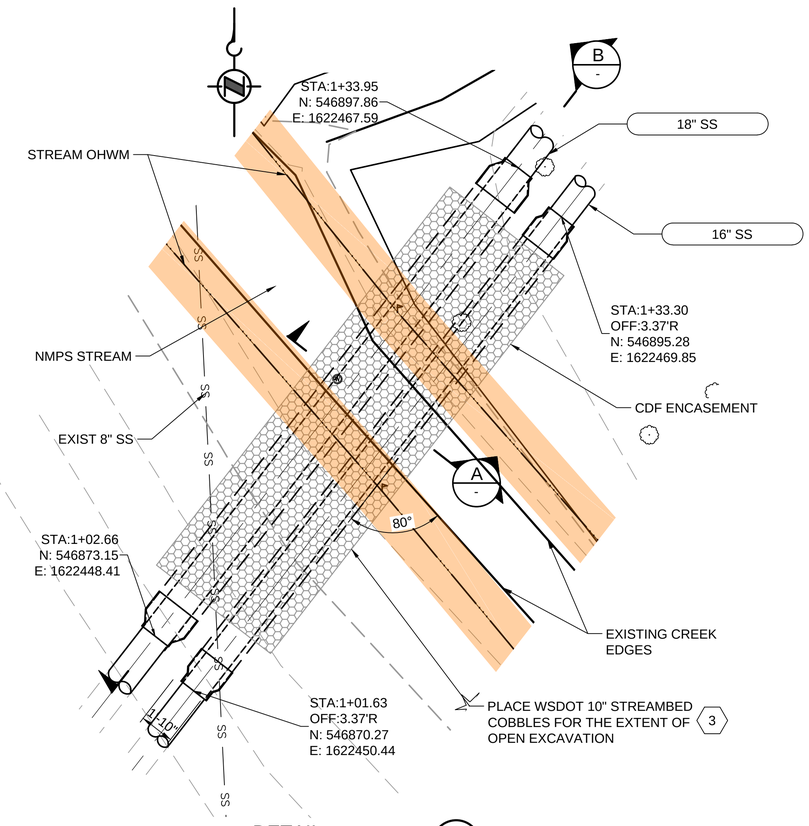
- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

KEY NOTES:

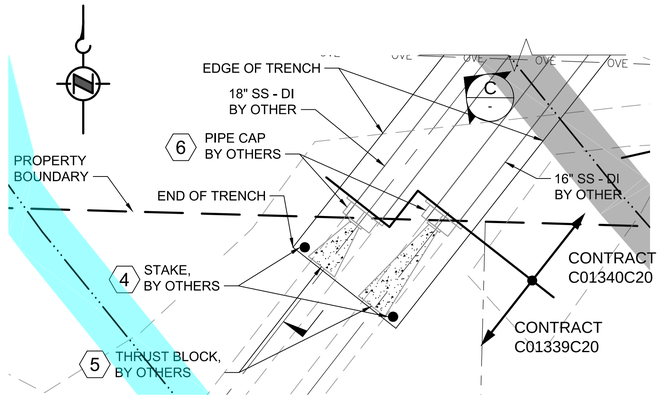
1. REFER TO DETAIL 2 ON SHEET C061 FOR CASING INSTALLATION DETAILS.
2. THE 16" SS INVERTS TO MATCH 18" SS INVERTS.
3. REINSTATE TOP 1.5 FT OF CREEK PROFILE WITH WSDOT STREAMBED COBBLES -10" (TYPE W) MATERIAL. EXTEND THE STREAMBED COBBLES 2 FT HORIZONTALLY BEYOND THE OHWM.
4. STAKE POSITIONED AT THE EDGE OF THE TRENCH TO BE REMOVED BY THIS CONTRACTOR.
5. CONCRETE THRUST BLOCKS TO BE REMOVED BY THIS CONTRACTOR.
6. PIPE CAPS TO BE REMOVED BY THIS CONTRACTOR.
7. LOCATE TAPE AND TRACER WIRE FOR BURIED PIPE IN ACCORDANCE WITH THE SPECIFICATIONS. CONNECT TRACER WIRE OF BOTH CONTRACTS.

NOTES:

1. CONTRACTOR TO PROVIDE A TEMPORARY DIVERSION ARRANGEMENT FOR THE FLOW RATES AND REQUIREMENTS NOTED IN SPECIFICATIONS.
2. THE FORCEMAINS NORTH OF THE PROPERTY LINE TO BE CONSTRUCTED AS PART OF CONTRACT C01340C20 AND INCLUDE PLAIN END PIPES WITH CAPS AND THRUST BLOCKS . THIS WORK TO BE COMPLETED PRIOR TO THE COMMENCEMENT OF CONTRACT C01339C20. INTERIM CONDITION TO REFLECT COMPLETION OF CONTRACT C01340C20.
3. CONTRACTOR TO FIELD VERIFY THE LOCATION PRIOR TO TRENCH EXCAVATION. FINAL CONNECTION TO BE MADE WITH EXTERNAL RESTRAINT COUPLINGS FOLLOWING PRESSURE TESTING OF CONTRACT C01340C20. THE CATHODIC PROTECTION CONNECTION TO THE NORTH SANITARY SEWER FORCEMAIN TO BE MADE BY THE CONTRACTOR.

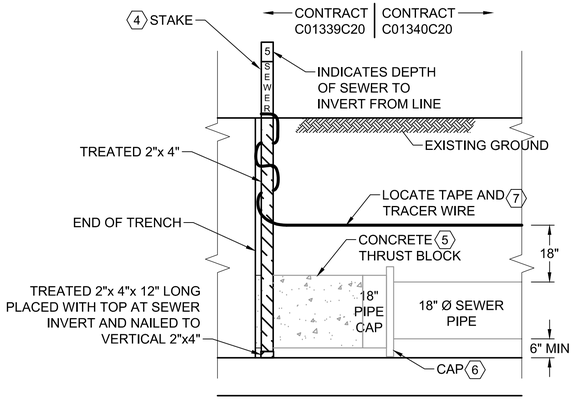


DETAIL 1
SCALE: 1/4" = 1'-0"
C121,C122



SEWER FORCEMAIN CONNECTION - PLAN
(INTERIM CONDITION)

DETAIL 2
SCALE: 1 1/2"=1'-0"
C121,C122



SEWER FORCEMAIN CONNECTION
(INTERIM CONDITION)

SECTION C
SCALE: 1/2"=1'-0"

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: B. NELSON	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

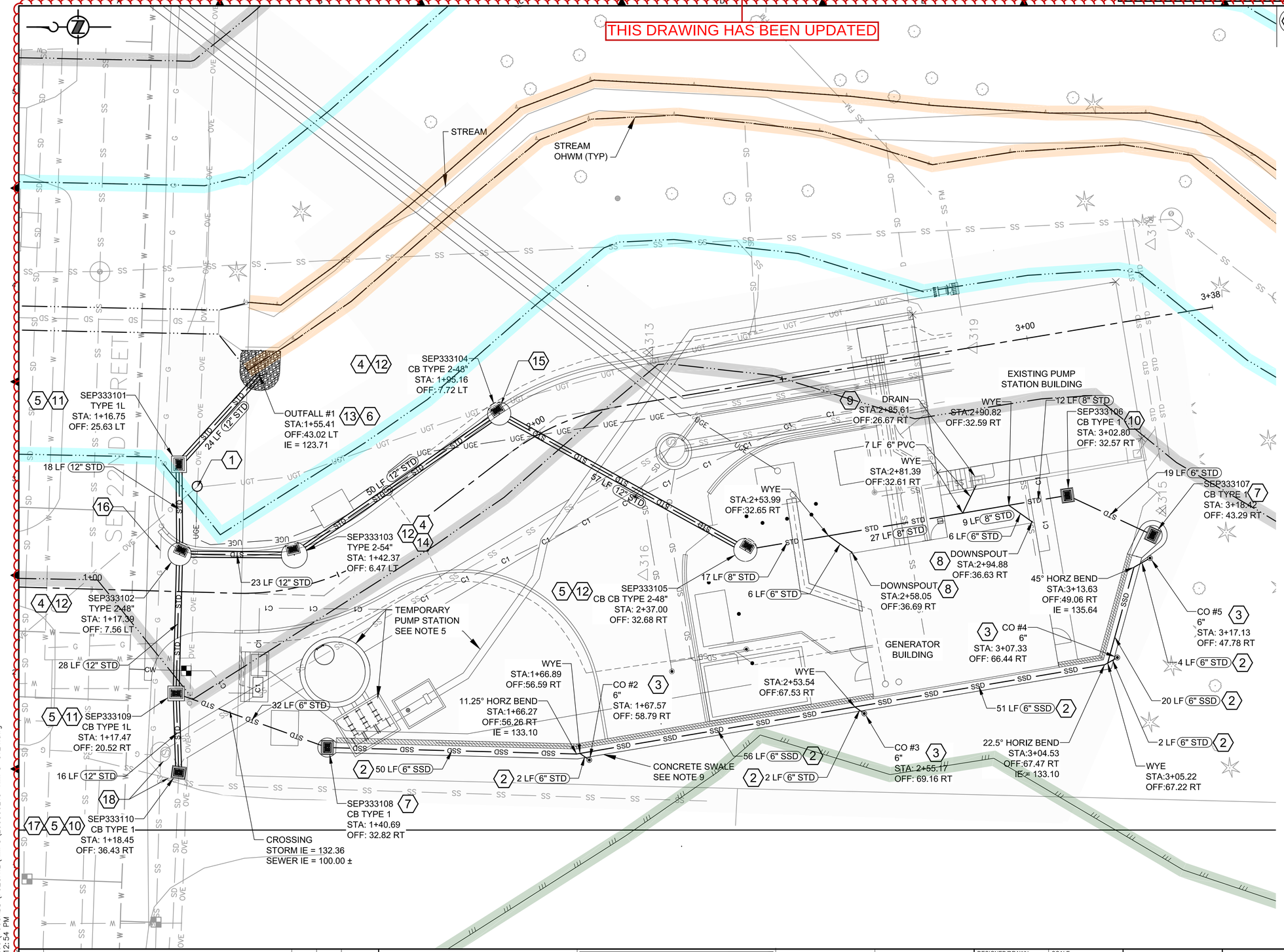
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
NMPS FORCE MAIN CREEK CROSSING

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C123
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Conduse Permit Drawings\Station\E003066I3-NMPS-C123.dwg
PLOT DATE: 9/26/2019 6:30 PM
PLOTTED BY: D'Auria, Isaac

THIS DRAWING HAS BEEN UPDATED



KEY NOTES:

1. PROVIDE SUPPORT FOR UTILITY POLE. COORDINATE WITH UTILITY COMPANY.
2. 6" SUBSURFACE DRAIN (WALL UNDERDRAIN), SEE DETAIL 3/C036 AND DRAWING C134 FOR PROFILE.
3. 6" CLEANOUT, SEE DETAIL 1/C061.
4. VANED GRATE, SEE DETAIL 1/C033.
5. HERRINGBONE GRATE. SEE DETAIL 1/C033
6. OUTFALL PROTECTION, SEE DETAIL 2/C036.
7. SWALE DRAIN. SEE DETAIL 2/C052.
8. DOWNSPOUT, SEE DETAIL 4/C036.
9. REPLACE EXISTING FLOOR DRAIN WITH INLINE DRAIN, SEE DETAIL 1/C022. SEE DRAWING D-M209 FOR ADDITIONAL RELOCATION INFO. CONNECT TO STORM DRAIN.
10. TYPE 1 CB, SEE DETAIL 1/C031.
11. TYPE 1L CB, SEE DETAIL 2/C031.
12. TYPE 2 CB, SEE DETAIL 1/C032.
13. BEVELED END PIPE SECTION, SEE DETAIL 2/C033.
14. SPILL CONTROL ON OUTLET PIPE, SEE DETAIL 1/C035.
15. PROTECT IN PLACE UNDERGROUND TELEPHONE LINE DURING CONSTRUCTION.
16. PROTECT IN PLACE UNDERGROUND GAS LINE DURING CONSTRUCTION.
17. CUT AND REMOVE EXISTING 12" CMP CULVERT AS NECESSARY TO CONNECT CB TO EXISTING PIPE. IF REQUIRED TO AVOID CONFLICT WITH EXISTING UTILITIES, EXTEND CULVERT AND SHIFT CB ACCORDINGLY.
18. PROTECT EXISTING SANITARY SEWER AND MAINTENANCE HOLE IN PLACE DURING CONSTRUCTION.

NOTES:

1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
3. PIPE BEDDING AND BACKFILL INFORMATION PER DETAIL 3/C033.
4. SEE DRAWING C131 FOR ACCESS ROAD ALIGNMENT INFORMATION.
5. TEMPORARY PUMP STATION TO BE REMOVED AND SHOWN FOR REFERENCE PURPOSES ONLY. SEE DRAWING T-C101 FOR TEMPORARY PUMP STATION AND PIPING LOCATIONS.
6. SEE DRAWING C125 FOR STORM DRAINAGE PROFILE INFORMATION.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: J. ETULAIN	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: C.SCHAUMBERG	CONTRACT NO: C01339C20

King County

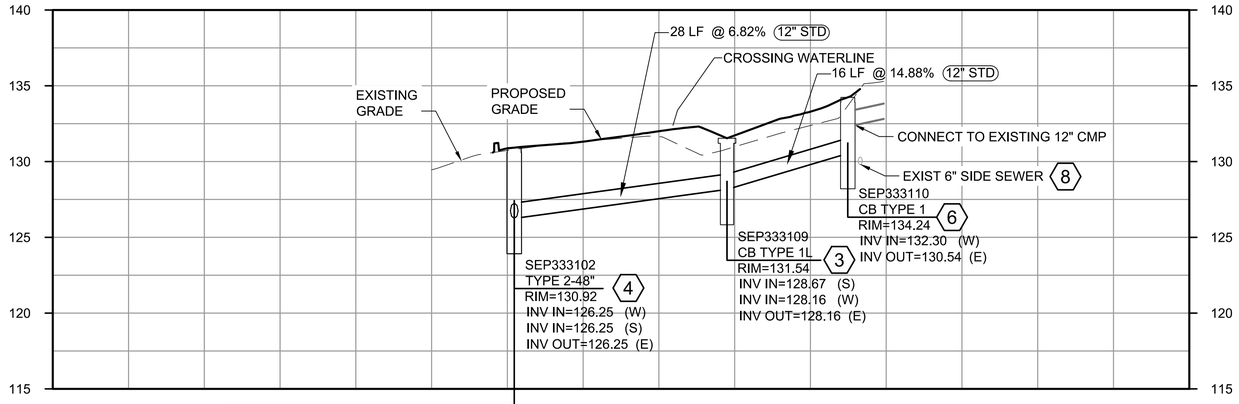
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

STORM DRAINAGE PLAN

DCN:
DATE: 03/9/2020
PROJECT FILE NO: 20-1116800
DRAWING NO: C124
SHT NO / TOTAL: /
REV NO:

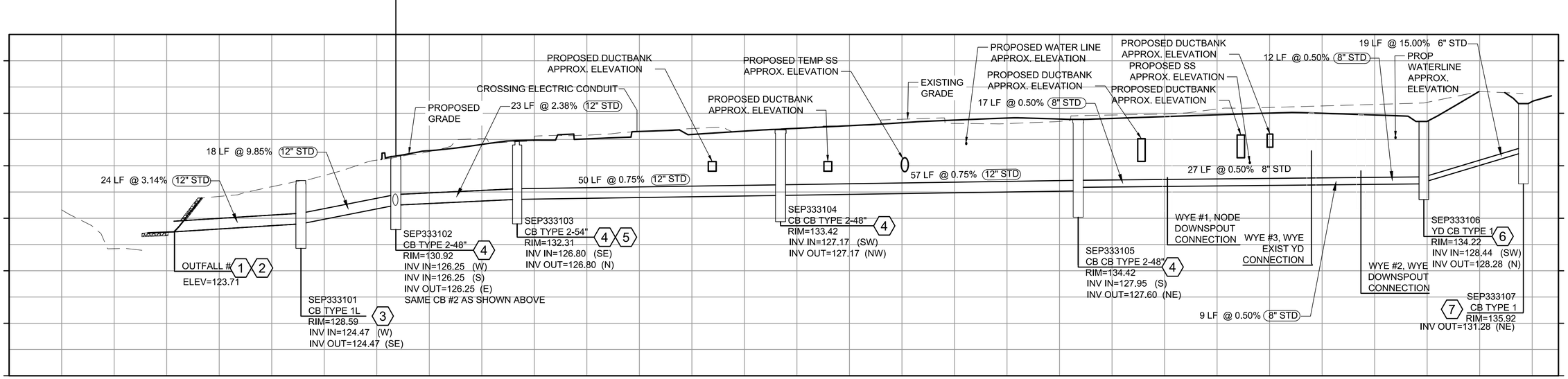
BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\NMPS\E003066E13-NMPS-C124.dwg
PLOT DATE: 3/4/2020 12:54 PM
PLOTTED BY: Edward Tetrault

THIS DRAWING HAS BEEN UPDATED



CB #2 TO EXISTING CULVERT PROFILE

SCALE: HORZ - 1" = 10'
VERT - 1" = 5'



OUTFALL TO YD #1
PROFILE

SCALE: HORZ - 1" = 10'
VERT - 1" = 5'

KEY NOTES:

1. OUTFALL PROTECTION, SEE DETAIL 2/C036.
2. BEVELED END PIPE SECTION, SEE DETAIL 2/C033.
3. TYPE 1L CB, SEE DETAIL 2/C031.
4. TYPE 2 CB, SEE DETAIL 1/C032.
5. SPILL CONTROL ON OUTLET PIPE, SEE DETAIL 1/C035.
6. TYPE 1 CB, SEE DETAIL 1/C031.
7. SWALE DRAIN, SEE DETAIL 2/C052.
8. SIDE SEWER ELEVATION NOT SURVEYED. INVERT BASED ON CITY OF MERCER ISLAND STANDARD DETAIL S-17 TYPICAL DEPTHS. SIDE SEWER TO BE PROTECTED IN PLACE DURING CONSTRUCTION.

NOTES:

1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
3. PIPE BEDDING AND BACKFILL INFORMATION PER DETAIL 3/C033.
4. SEE DRAWING C124 FOR STORM DRAINAGE PLAN.
5. CROSSINGS WITH OTHER UTILITIES SHALL HAVE MINIMUM 12" CLEARANCE.
6. SEE MECHANICAL DRAWING M303 FOR SS BETWEEN PUMP BUILDING AND GENERATOR BUILDING.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

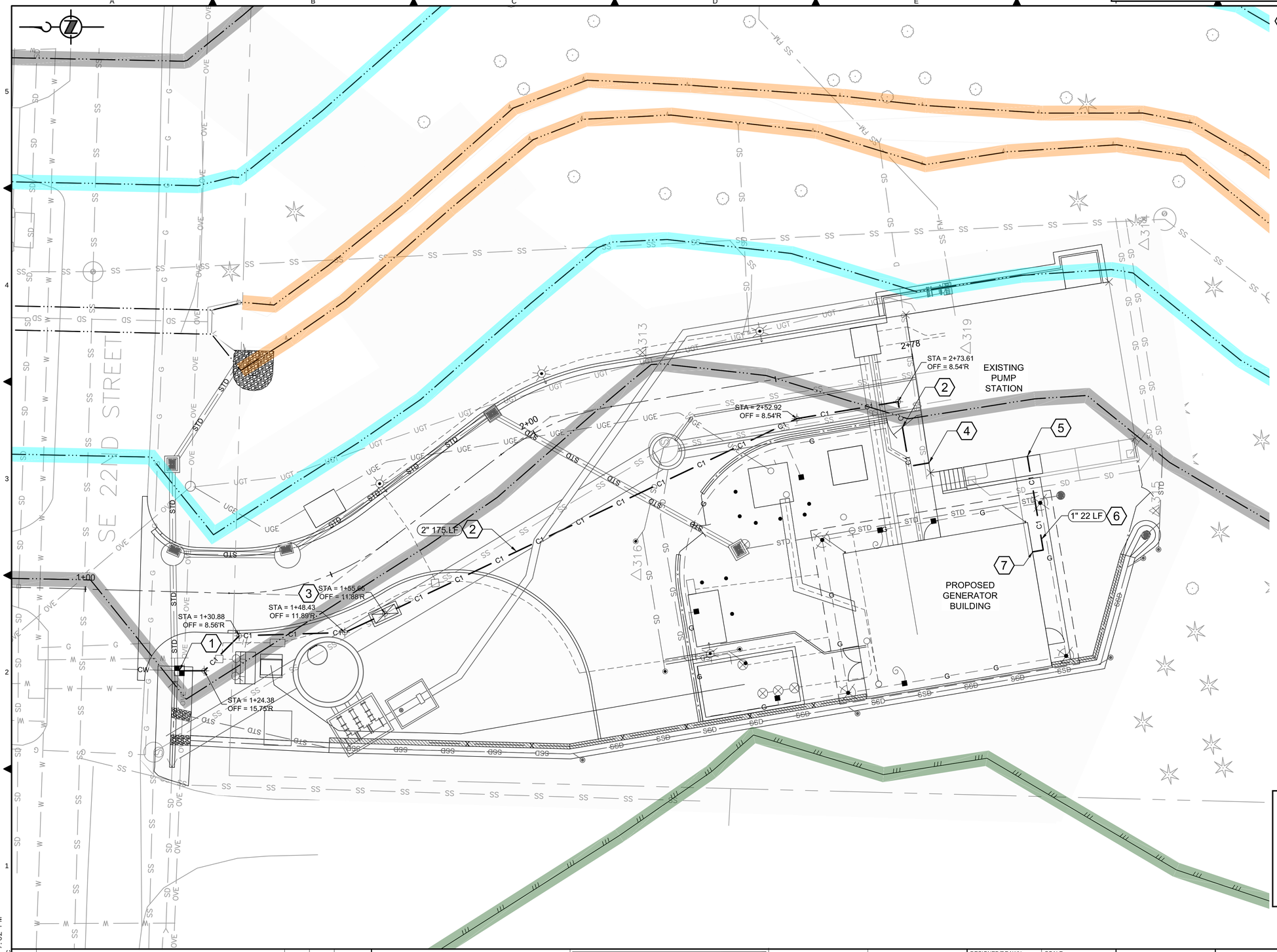
DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: C.SCHAUMBERG	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
STORM DRAINAGE PROFILES

DCN:
DATE: 03/9/2020
PROJECT FILE NO: 20-1116800
DRAWING NO: **C125**
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\NMPS\E00306E13-NMPS-C125.dwg
PLOT DATE: 2/20/2020 10:49 AM
PLOTTED BY: Ludwig, Rose



KEY NOTES:

1. 2" WATER METER INSTALLED BY OTHERS.
2. WATER SERVICE LINE, SEE DETAIL 1/C041.
3. PRESSURE REDUCER BACKFLOW ASSEMBLY, SEE DETAIL 4/M011.
4. 2" WATER LINE TO ENTER THE BUILDING, SEE DRAWING M226.
5. 1" WATERLINE TO EXIT THE BUILDING, SEE DRAWING M226.
6. 1" WATER LINE, SEE DETAIL 1/C041.
7. 1" WATER LINE TO ENTER THE BUILDING, SEE DRAWING M226.

NOTES:

1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
3. SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
4. WATER SERVICE LINE ALIGNMENT IS APPROXIMATE. CONTRACTOR TO FIELD LOCATE AS REQUIRED.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

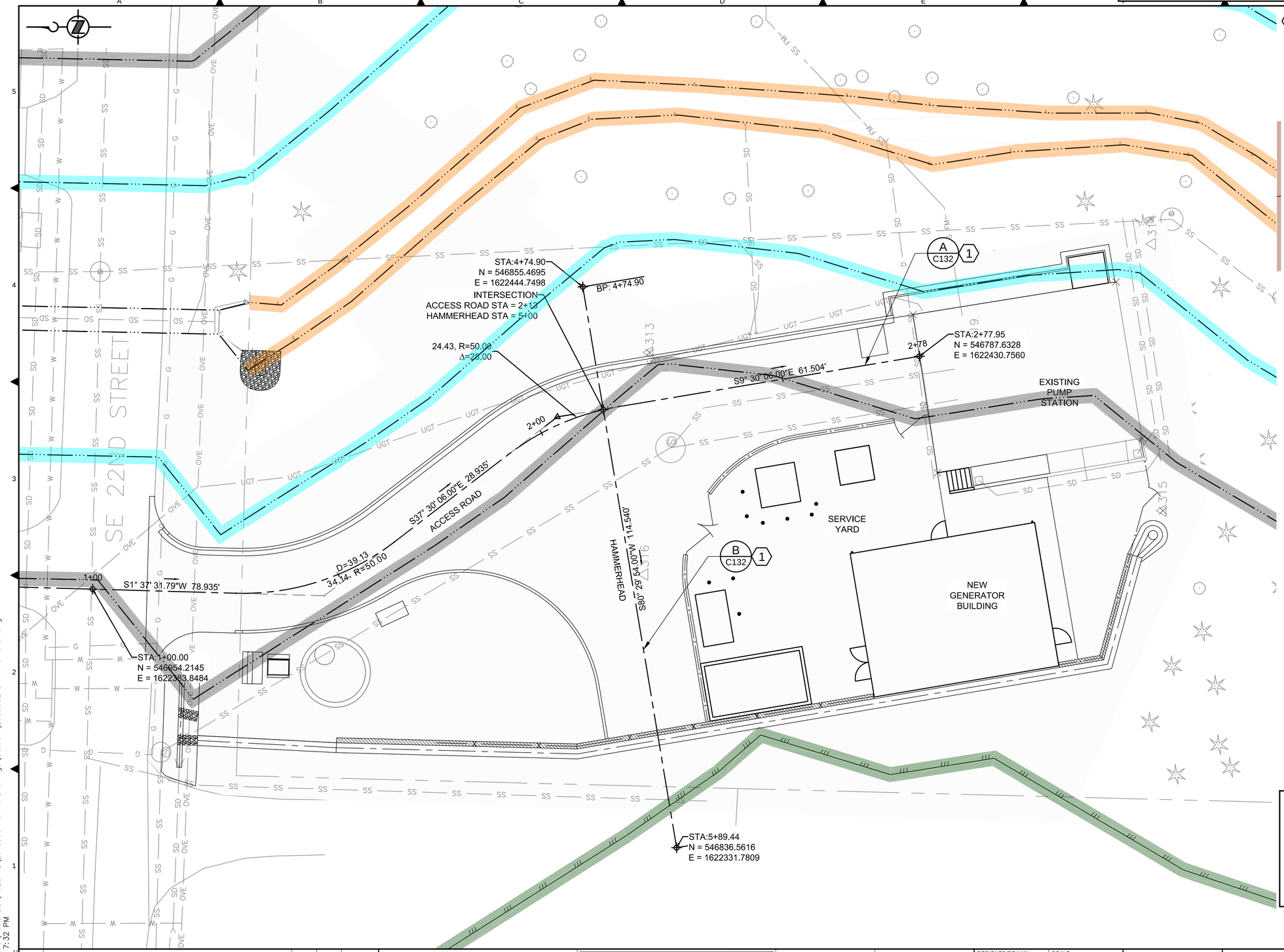
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

WATER UTILITY PLAN

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C126**
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C126.dwg
PLOT DATE: 9/26/2019 7:02 PM
PLOTTED BY: D'Auria, Isaac



KEY NOTES:

1. ACCESS ROAD. SEE DETAIL 1/C051 FOR TYPICAL ROADWAY SECTIONS.

NOTES:

1. SEE DRAWING C141 FOR CURB RETURN INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

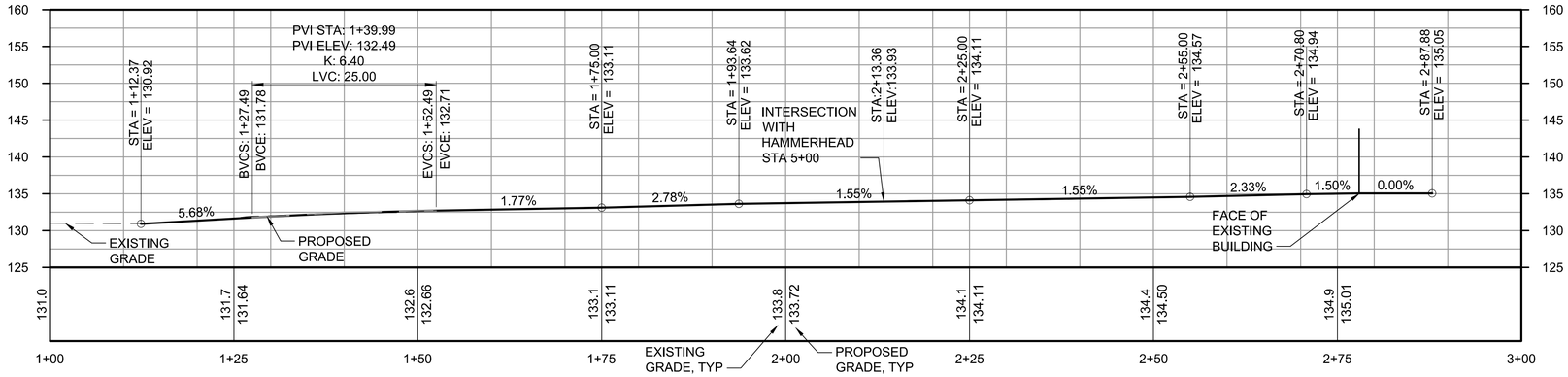
ACCESS ROAD CONTROL

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C131**
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C131.dwg
PLOT DATE: 9/26/2019 7:32 PM
PLOTTED BY: D'Aurio, Isaac

NOTES:

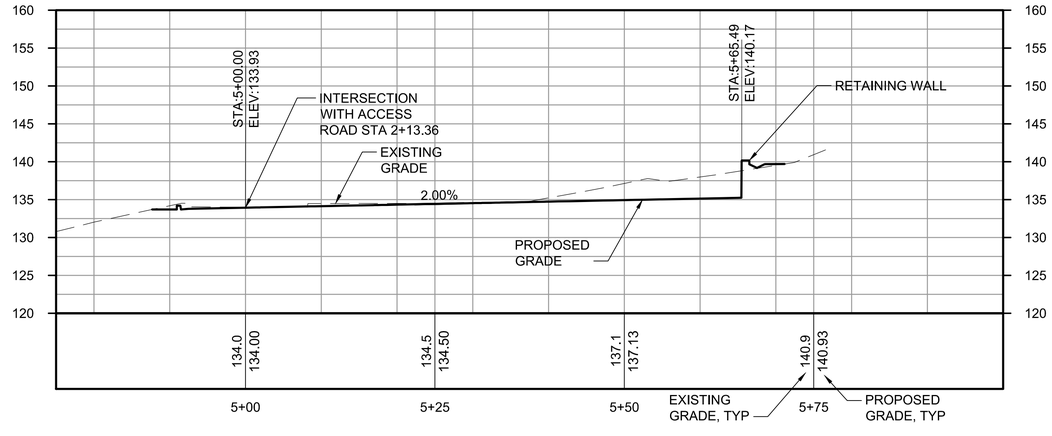
1. ELEVATIONS SHOWN ARE TOP OF PROPOSED GRADE.



ACCESS ROAD

PROFILE (A) C131

SCALE: HORZ - 1" = 10'
VERT - 1" = 10'



HAMMERHEAD

PROFILE (B) C131

SCALE: HORZ - 1" = 10'
VERT - 1" = 10'

ABBREVIATIONS:

LVC - LENGTH OF VERTICAL CURVE

PVI - POINT OF VERTICAL INTERSECTION

BVCS - BEGIN VERTICAL CURVE STATIONING

BVCE - BEGIN VERTICAL CURVE ELEVATION

EVCS - END VERTICAL CURVE STATIONING

EVCE - END VERTICAL CURVE ELEVATION

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR
UPGRADE - PUMP STATION IMPROVEMENTS

ACCESS ROAD PROFILES

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C132
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C132.dwg
PLOT DATE: 6/28/2019 11:33 AM
PLOTTED BY:D'Auria, Isaac

CONCRETE SLAB TABLE 1		
LOCATION	STATION	OFFSET
1-NW	3+10.70	-8.29 LT
1-NE	3+10.70	-13.39 LT
1-SE	3+15.93	-13.40 LT
1-SW	3+15.93	-8.28 LT

CONCRETE SLAB TABLE 2		
LOCATION	STATION	OFFSET
2-NW	2+57.97	23.01 RT
2-NE	2+57.96	16.01 RT
2-SE	2+64.96	16.00 RT
2-SW	2+64.97	23.00 RT

CONCRETE SLAB TABLE 3		
LOCATION	STATION	OFFSET
3-NW	2+43.04	24.90 RT
3-NE	2+43.03	16.90 RT
3-SE	2+49.53	16.89 RT
3-SW	2+49.54	24.89 RT

CONCRETE SLAB TABLE 4		
LOCATION	STATION	OFFSET
4-NW	2+25.46	50.57 RT
4-NE	2+25.44	39.94 RT
4-SE	2+31.56	39.93 RT
4-SW	2+31.75	50.56 RT

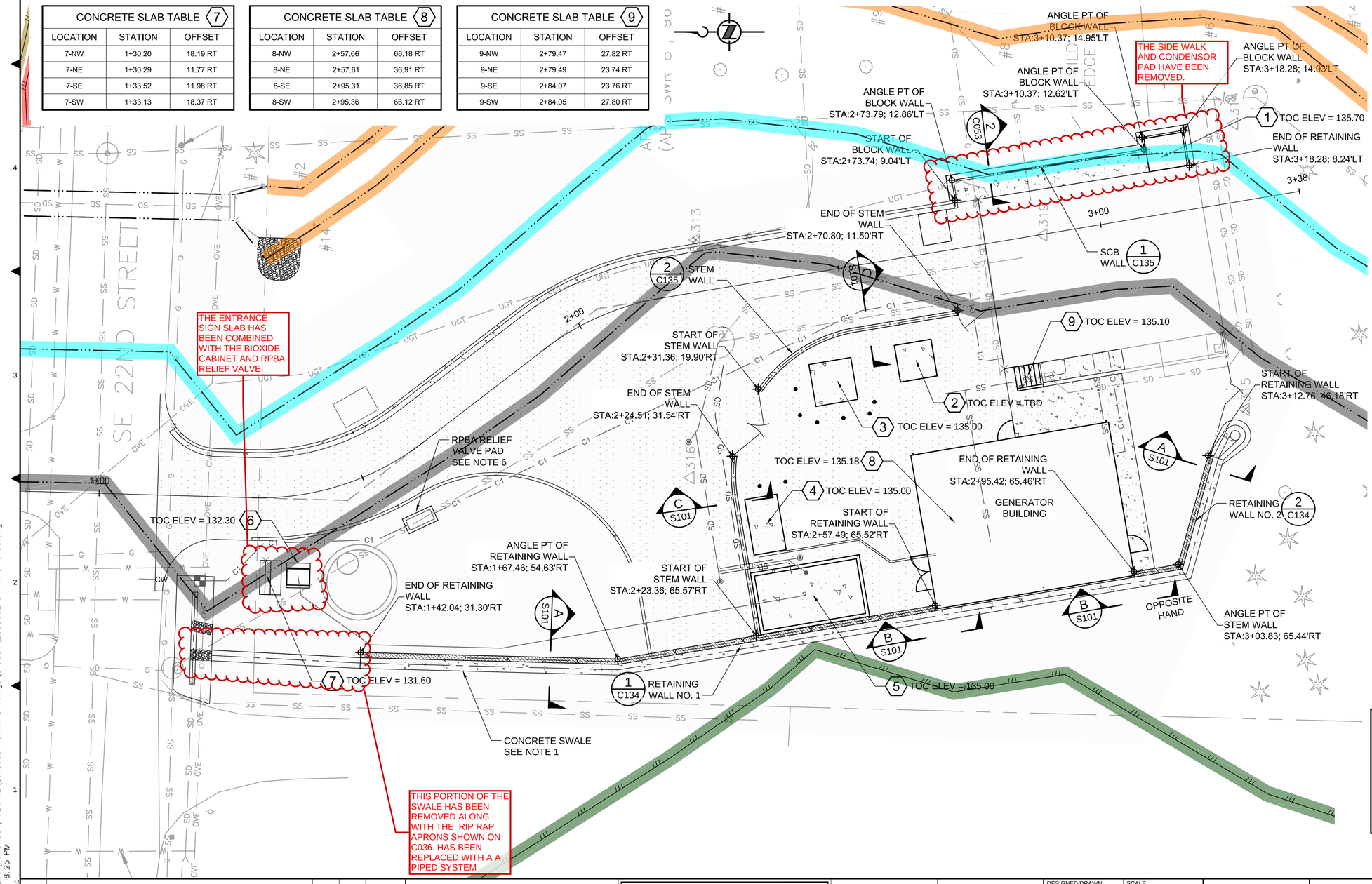
CONCRETE SLAB TABLE 5		
LOCATION	STATION	OFFSET
5-NW	2+24.23	65.53 RT
5-NE	2+24.21	53.78 RT
5-SE	2+44.96	53.75 RT
5-SW	2+44.98	65.50 RT

CONCRETE SLAB TABLE 6		
LOCATION	STATION	OFFSET
6-NW	1+53.61	12.75 RT
6-NE	1+53.66	10.76 RT
6-SE	1+57.76	11.12 RT
6-SW	1+57.57	13.11 RT

CONCRETE SLAB TABLE 7		
LOCATION	STATION	OFFSET
7-NW	1+30.20	18.19 RT
7-NE	1+30.29	11.77 RT
7-SE	1+33.52	11.98 RT
7-SW	1+33.13	18.37 RT

CONCRETE SLAB TABLE 8		
LOCATION	STATION	OFFSET
8-NW	2+57.66	66.18 RT
8-NE	2+57.61	36.91 RT
8-SE	2+95.31	36.85 RT
8-SW	2+95.36	66.12 RT

CONCRETE SLAB TABLE 9		
LOCATION	STATION	OFFSET
9-NW	2+79.47	27.82 RT
9-NE	2+79.49	23.74 RT
9-SE	2+84.07	23.76 RT
9-SW	2+84.05	27.80 RT



KEY NOTES:

1. CONDENSER UNIT PAD (7'-3"x6'-4"), SEE DRAWING S003.
2. CARBON VESSEL FOUNDATION, SEE DRAWING S401. SEE DRAWING S402 FOR PLATFORM BASE FOOTING INFORMATION AND LOCATIONS.
3. PADMOUNT TRANSFORMER VAULT (8'X8'), SEE DRAWING S003.
4. DIESEL TANK PAD.
5. BIOXIDE CONTAINMENT BASIN, SEE DRAWING S501.
6. BIOXIDE FILING CABINET PAD, SEE S003.
7. FACILITY SIGN, SEE DRAWING A314.
8. GENERATOR BUILDING SLAB AND GENERATOR PAD, SEE DRAWING S301.
9. CONCRETE STAIRS, SEE DRAWING A314.

NOTES:

1. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
2. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.SEE DRAWING C141 FOR CONCRETE SWALE INFORMATION.
3. SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.
4. SEE DRAWING C141 FOR SIDEWALK, EQUIPMENT PAD, CONCRETE SWALE, AND STEM WALL CURB RETURN INFORMATION.
5. RETAINING WALL TO BE CONSTRUCTED IN TWO PHASES, SEE DRAWING T-C101.
6. SEE DRAWING C126 FOR HOTBOX PAD LOCATION.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

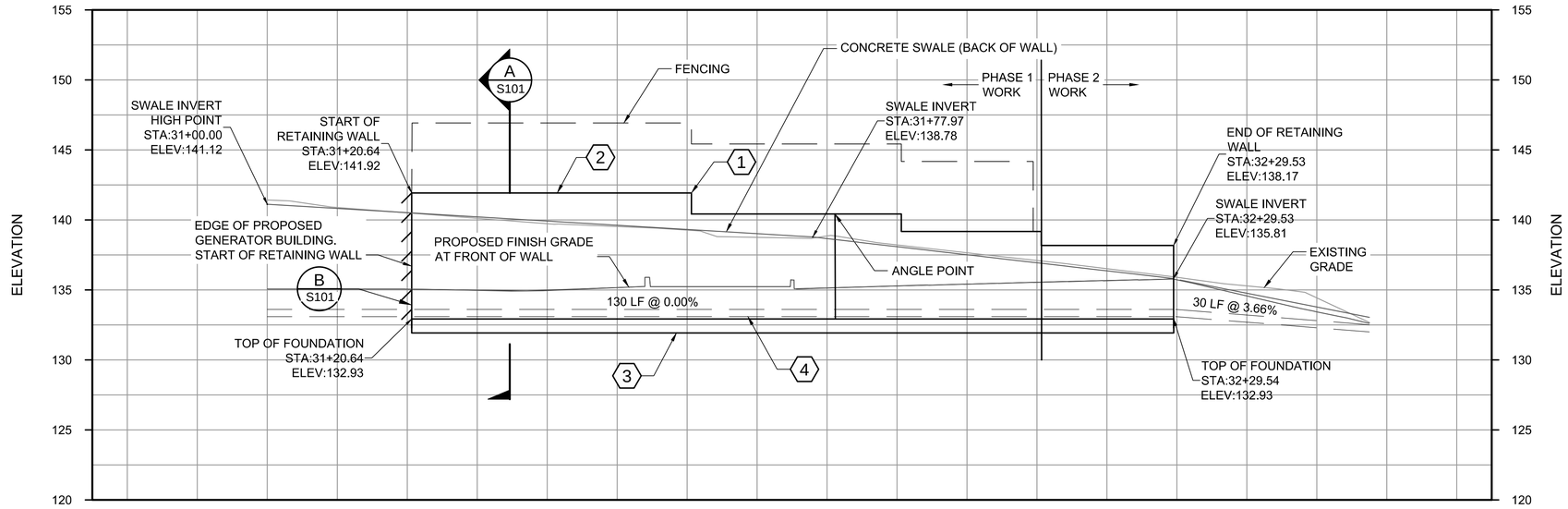
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

WALL PADS AND FOOTINGS PLAN

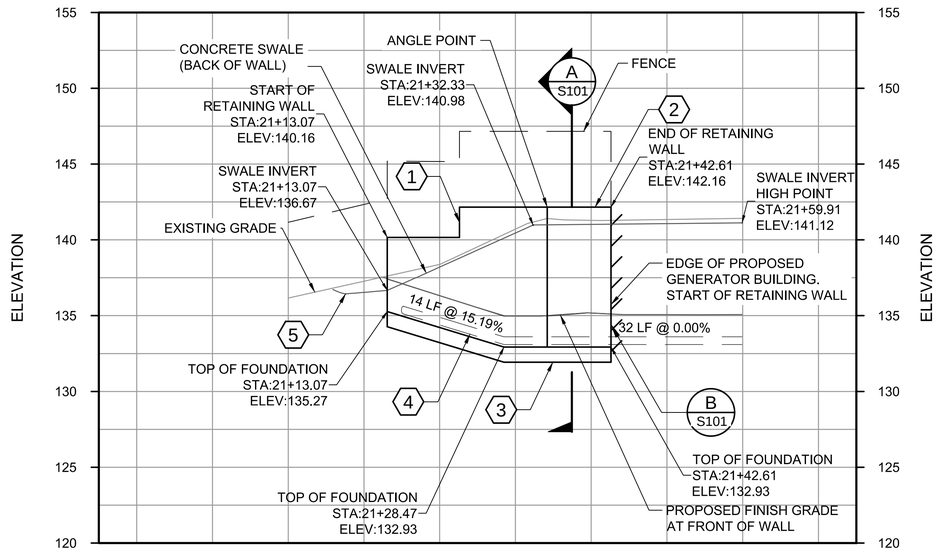
DCN:
DATE: 03/9/2020
PROJECT FILE NO:
DRAWING NO: C133
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C133.dwg
PLOT DATE: 9/26/2019 8:25 PM
PLOTTED BY: Aurio, Isaac



WALL NO. 1 PROFILE (1 / C133)

SCALE: H - 1" = 10'
V - 1" = 5'



WALL NO. 2 PROFILE (2 / C133)

SCALE: H - 1" = 10'
V - 1" = 5'

KEY NOTES:

1. ELEVATION DROP LOCATIONS AND DISTANCE OF DROP AS REQUIRED FOR FENCING.
2. 6" MIN WALL HEIGHT REQUIRED ABOVE RETAINING WALL SWALE, SEE DETAIL 3/C051.
3. APPROXIMATE LOCATION OF BOTTOM OF FOOTING.
4. FOOTING WALL DRAIN, SEE DETAIL 3/C036.
5. YARD DRAIN, SEE DETAIL 1/C034.

NOTES:

1. SEE C133 FOR WALL ALIGNMENT INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
4. REFER TO C141 FOR ADDITIONAL STEM WALL LOCATION INFORMATION.
5. RETAINING WALL TO BE CONSTRUCTED IN TWO PHASES, SEE TC101.
6. SEE DRAWING A306 FOR FENCE INFORMATION.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

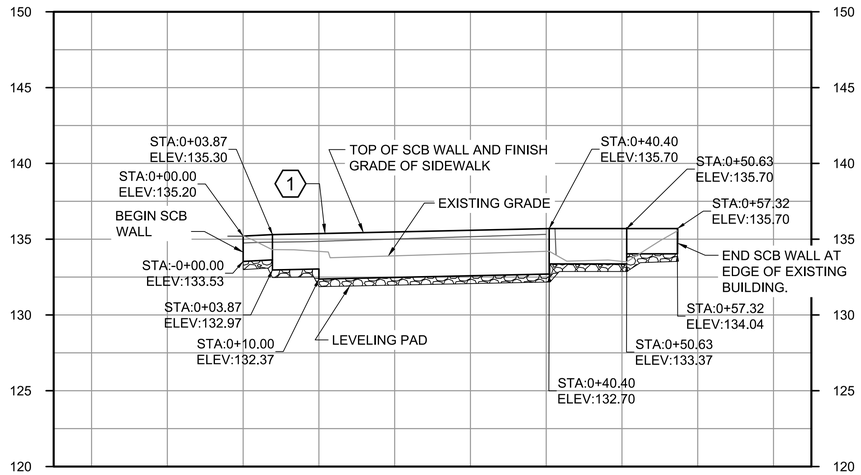
DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
RETAINING WALL PROFILE

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **C134**
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Conduse Permit Drawings\Station\E00306E13-NMPS-C134.dwg
PLOT DATE: 6/28/2019 11:29 AM
PLOTTED BY: D'Aurio, Isaac



SCB WALL PROFILE (1 / C133)

SCALE: H - 1" = 10'
V - 1" = 5'

STEM WALL PROFILE (2 / C133)

SCALE: H - 1" = 10'
V - 1" = 5'

KEY NOTES:

1. SEGMENTAL CONCRETE BLOCK (SCB) WALL, SEE DETAIL 2/C053.
2. SERVICE YARD STEM WALL, SEE SECTION C/S101.

NOTES:

1. SEE C131 FOR ALIGNMENT INFORMATION.
2. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM A COMPILATION OF PUBLIC RECORDS, VISIBLE FIELD EVIDENCE, AND UTILITY LOCATE SURFACE MARKS.
3. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO AND/OR DURING CONSTRUCTION.
4. ELEVATIONS ON PROFILE REPRESENT THE TOP OF WALL AND TOP OF FOOTING FOR THE SCB WALL AND TOP OF WALL AND BOTTOM OF FOOTING FOR STEM WALL.
5. SEE DRAWING A306 FOR FENCE INFORMATION.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR
UPGRADE - PUMP STATION IMPROVEMENTS

SCB AND STEM WALL PROFILES

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C135
SHT NO / TOTAL	126 / 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\NMPS\E003306E13-NMPS-C135.dwg
PLOT DATE: 4/29/2019 3:11 PM
PLOTTED BY: Etuloin, John

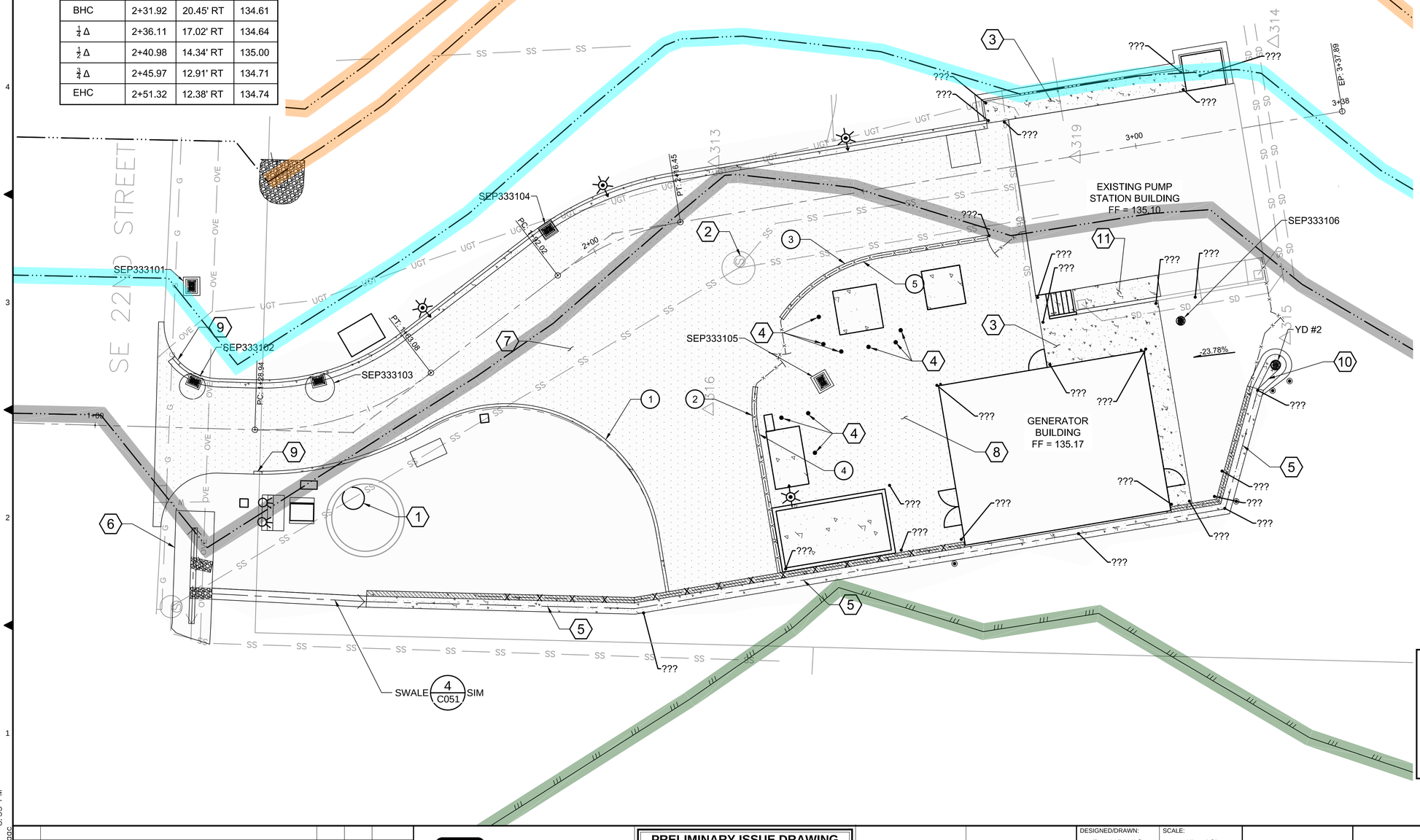
CURB RETURN FLOW LINE TABLE 1			
LOCATION	STA	OFFSET	ELEV
BHC	1+57.45	7.51' RT	133.00
¼ Δ	1+69.27	11.84' RT	133.47
½ Δ	1+78.25	21.91' RT	133.99
¾ Δ	1+81.47	35.01' RT	134.51
EHC	1+78.20	48.10' RT	135.02
Δ = 111° 32' 57" R = 28.00' L = 54.51'			

CURB RETURN FLOW LINE TABLE 2			
LOCATION	STA	OFFSET	ELEV
BHC	2+23.31	39.50' RT	134.72
¼ Δ	2+23.43	37.48' RT	134.66
½ Δ	2+23.65	35.48' RT	134.60
¾ Δ	2+24.01	33.49' RT	134.54
EHC	2+24.51	31.54' RT	134.52
Δ = 16° 30' 48" R = 28.00' L = 8.07'			

CURB RETURN FLOW LINE TABLE 3			
LOCATION	STA	OFFSET	ELEV
BHC	2+31.36	19.90' RT	134.61
¼ Δ	2+35.61	16.31' RT	134.64
½ Δ	2+40.51	13.69' RT	134.68
¾ Δ	2+45.83	12.05' RT	134.71
EHC	2+51.36	11.50' RT	134.74
Δ = 45° 34' 37" R = 28.00' L = 22.27'			

CURB RETURN FLOW LINE TABLE 4			
LOCATION	STA	OFFSET	ELEV
BHC	2+24.19	39.50' RT	134.72
¼ Δ	2+24.26	37.54' RT	134.66
½ Δ	2+24.47	35.60' RT	134.60
¾ Δ	2+24.82	33.67' RT	134.54
EHC	2+25.31	31.78' RT	134.52

CURB RETURN FLOW LINE TABLE 5			
LOCATION	STA	OFFSET	ELEV
BHC	2+31.92	20.45' RT	134.61
¼ Δ	2+36.11	17.02' RT	134.64
½ Δ	2+40.98	14.34' RT	135.00
¾ Δ	2+45.97	12.91' RT	134.71
EHC	2+51.32	12.38' RT	134.74



KEY NOTES:

1. ADJUST MANHOLE RIM TO FINISH GRADE, SEE DETAIL 1/T-M904.
2. ADJUST MANHOLE RIM TO FINISH GRADE
3. CONCRETE SIDEWALK, SEE DETAIL 1/C053.
4. BOLLARD TYPE 1, SEE DETAIL 1/C052.
5. CONCRETE SWALE, SEE DETAIL 3/C051.
6. FRONTAGE SWALE, SEE DETAIL 4/C051.
7. VEHICLE ACCESS ROAD HMA PAVEMENT, SEE DETAIL 1/C051.
8. SERVICE YARD HMA PAVEMENT, SEE DETAIL 1/C051.
9. CONCRETE CURB TRANSITION, SEE DETAIL 2/C051.
10. SWALE YARD DRAIN, SEE DETAIL 2/C052.
11. REPAIR CONCRETE SLAB AND WALL AS REQUIRED FOR UTILITY INSTALLATION.

NOTES:

1. ELEVATIONS SHOWN ARE TO TOP OF FINISHED GRADE.
2. SEE DRAWING C133 FOR RETAINING WALL, STEM WALL AND SEGMENTAL CONCRETE BLOCK WALL INFORMATION.
3. SEE DRAWING A307 FOR FENCE INFORMATION.
4. SEE DRAWING A103 FOR GATE INFORMATION.
5. SEE DRAWING C131 FOR STATION ALIGNMENT INFORMATION.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. LUDWIG	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
GRADING & PAVING PLAN

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C141
SHT NO / TOTAL	XXX /
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\WJX67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-C141.dwg
PLOT DATE: 9/26/2019 8:53 PM
PLOTTED BY: D'Auria, Isaac

THIS DRAWING HAS BEEN UPDATED

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

NOTES:

1. SEE DWG L102 FOR PLANTING NOTES, SCHEDULE AND SETBACKS.
2. SEE DWG L103 FOR PLANTING DETAILS.
3. SEE DWG L104 FOR PLANT MIX LAYOUT AND DESCRIPTIONS.
4. PLANT MIXES A, B, C AND PORTIONS OF D ARE DEFINED AS BUFFER ENHANCEMENT AREAS. WORK SHALL BE PERFORMED AS STATED IN SPECIFICATION SECTION 32 76 00. THE PORTION OF MIX D BETWEEN THE WESTERN RETAINING WALL AND WESTERN PROPERTY BOUNDARY FALLS OUTSIDE OF THE STREAM BUFFER ENHANCEMENT AREA.
5. WORK PERFORMED IN THE L.O.D OF PROTECTED TREES SHALL BE DONE IN ACCORDANCE WITH THE APPROVED TREE PROTECTION PLAN.

(X) KEY NOTES:

1. PLANTING BY OTHERS.
2. CONCRETE-LINED DITCH, SEE CIVIL DRAWINGS.
3. ENTRANCE SIGN WALL, SEE DETAIL ON SHEET A314.
4. ENHANCED PLANTING PREPARATION AREA SHALL RECEIVE A 3 FT DEPTH OF PLANTING SOIL MIX. SEE SHEET C141 FOR FINAL GRADES.

LEGEND:

- MIX A
- MIX B
- MIX C
- MIX D
- MIX E
- MIX F
- STREAM BED MATERIAL, SEE DWG. C123
- SELECTIVE CLEARING
- ENHANCED PLANTING PREPARATION AREA
- STREAM BUFFER
- CRUSHED GRAVEL

- LEGACY SUGAR MAPLE
- CHINESE FRINGE TREE
- VANESSA PERSIAN IRONWOOD
- WESTERN REDCEDAR
- INCENSE CEDAR
- EXCELSA WESTERN REDCEDAR
- EVERGREEN HUCKLEBERRY
- ARTHUR MENZIES HYBRID MAHONIA

SE 22ND STREET

EXISTING PUMP STATION BUILDING

PSE TRANSFORMER PAD

BIOXIDE FILLING STATION AND RPBA PAD

SEE SHEET M101 FOR LOCATION OF TEMPORARY IRRIGATION POINT OF CONNECTION

GENERATOR BUILDING

ENHANCED PLANTING PREPARATION AREA

PROPERTY BOUNDARY

RESTORE TO EDGE OF NEIGHBOR'S DRIVEWAY

2 C036

0 10 FEET 1"

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\715LAND\E00306E13-NMPS-L101.dwg
PLOT DATE: 3/4/2020 3:21 PM
PLOTTED BY: DAVID JONES

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: L. FRENCH	SCALE: 1" = 10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LANDSCAPE PLAN

DCN:	
DATE:	3/9/2020
PROJECT FILE NO:	
DRAWING NO:	L101
SHT NO / TOTAL	122 / 347
REV NO:	

THIS DRAWING HAS BEEN UPDATED

PLANT SCHEDULE

TYPE	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT CONDITION	SIZE	REMARKS
TREE	3	ACER SACCHARUM 'LEGACY'	LEGACY MAPLE	B&B	2 INCH CAL.	STREET TREE GRADE
TREE	8	CALOCEDRUS DECURRENS	INCENSE CEDAR	4 INCH CAL.	12-14 FT.	NATURAL FORM; SINGLE LEADER
TREE	3	CHIONANTHUS RETUSUS	CHINESE FRINGE TREE	2 INCH CAL.	2 INCH CAL.	STREET TREE GRADE
TREE	3	PARROTIA PERSICA 'VANESSA'	PERSIAN IRONWOOD	2 INCH CAL.	2 INCH CAL.	STREET TREE GRADE
TREE	35	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	#1 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
TREE	21	RHAMNUS PURSHIANA	CASCARA	#1 CONT.	18 INCH	MIN. 5 BRANCHES
TREE	2	THUJA PLICATA	WESTERN REDCEDAR	4 INCH CAL.	12-14 FT.	NATURAL FORM; SINGLE LEADER
TREE	56	THUJA PLICATA	WESTERN REDCEDAR	#1 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
TREE	16	THUJA PLICATA 'EXCELSA'	EXCELSA WESTERN REDCEDAR	4 INCH CAL.	12-14 FT.	NATURAL FORM; SINGLE LEADER
TREE	37	TSUGA HETEROPHYLLA	WESTERN HEMLOCK	#1 CONT.	18 INCH	NATURAL FORM; SINGLE LEADER
LARGE SHRUB	218	ACER CIRCINATUM	VINE MAPLE	#1 CONT.	12 INCH	MIN. 3 BRANCHES
LARGE SHRUB	102	CORNUS SERICEA	RED TWIG DOGWOOD	LIVE STAKE	24 INCH	SEE DETAIL L103
LARGE SHRUB	77	MAHONIA AQUIFOLIUM	TALL OREGON-GRAPE	#1 CONT.	12 INCH	MIN. 3 CANES
LARGE SHRUB	290	MYRICA CALIFORNICA	PACIFIC WAX MYRTLE	#1 CONT.	12 INCH	MIN. 3 CANES
LARGE SHRUB	159	OEMLERIA CERASIFORMIS	INDIAN PLUM	#1 CONT.	12 INCH	MIN. 3 BRANCHES
LARGE SHRUB	238	SALIX SITCHENSIS	SITKA WILLOW	LIVE STAKE	24 INCH	SEE DETAIL L103
LARGE SHRUB	12	MAHONIA X. MEDIA 'ARTHUR MENZIES'	ARTHUR MENZIES HYBRID MAHONIA	#5 CONT.	30 INCH	MIN. 5 BRANCHES
SHRUB	230	ROSA GYMNOCARPA	BALDHIP ROSE	#1 CONT.	12 INCH	MIN. 3 CANES
SHRUB	12	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	#5 CONT.	24 INCH	MIN. 5 BRANCHES
GROUNDCOVER	373	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	#1 CONT.		
GROUNDCOVER	561	EPIMEDIUM X PERRALCHICHUM 'FROHNLEITEN'	BARRENWORT 'FROHNLEITEN'	#1 CONT.	9 INCH	
GROUNDCOVER	767	GAULTHERIA SHALLON	SALAL	#1 CONT.	6 INCH	
GROUNDCOVER	410	MAHONIA NERVOSA	LOW OREGON GRAPE	#1 CONT.	6 INCH	
GROUNDCOVER	1456	MAHONIA REPENS	CREEPING MAHONIA	#1 CONT.	6 INCH	
GROUNDCOVER	178	ASARUM CAUDATUM	WESTERN WILD GINGER	#1 CONT.		
EMERGENT	263	CAREX OBNUPTA	SLOUGH SEDGE	PLUGS	20 CU. IN.	
EMERGENT	262	JUNCUS EFFUSUS	COMMON RUSH	PLUGS	20 CU. IN.	
FERN	1218	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1 CONT.	-	MIN. 3 FRONDS

PLANT SCHEDULE NOTES:

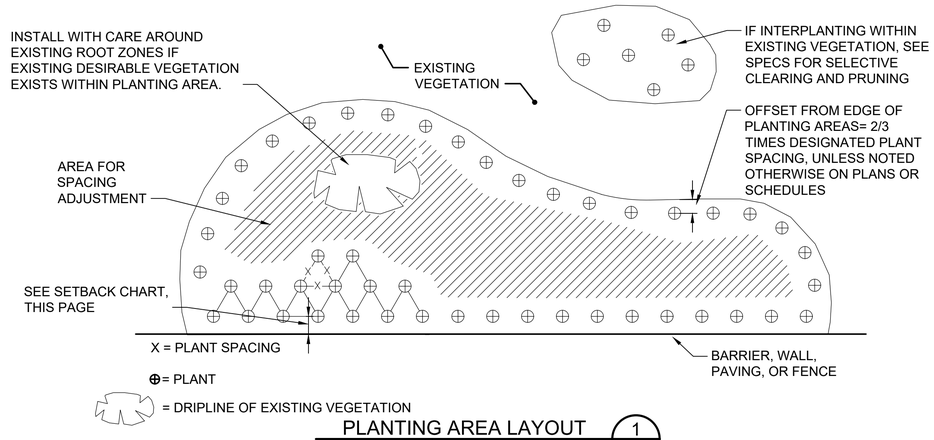
1. ALL PLANT MATERIAL SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM REQUIREMENTS, AND ARE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK". IF A CONFLICT OCCURS BETWEEN THESE SPECIFICATIONS AND THE "A.S.N.S.", THESE SPECIFICATIONS SHALL APPLY.
2. ALL CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH FULLY FILL THE CONTAINER WITHOUT HAVING ROOTS THAT CIRCLE THE POT. CONTAINERIZED AND B&B TREES SHALL NOT HAVE TAP ROOTS THAT FORM A "J" SHAPE.
3. IMMEDIATELY BEFORE INSTALLATION, PLANT'S ROOTS THAT ARE BROKEN, DAMAGED, OR TWISTED SHALL BE PRUNED. MATTED OR CIRCLING ROOTS OF CONTAINERIZED PLANTS MUST BE PRUNED OR STRAIGHTENED AND THE SIDES OF THE ROOTBALL SHALL BE ROUGHENED FROM TOP TO BOTTOM TO A DEPTH OF APPROXIMATELY ONE HALF INCH IN TWO TO FOUR PLACES.
4. WHILE INSTALLING NEW PLANTINGS, USE CARE TO PROTECT ROOTS OF EXISTING TREES.
5. STREET TREE GRADE- TRUNK FREE OF BRANCHES TO 5 -7 FOOT HEIGHT, STREET TREES SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING,
6. CONIFERS SHALL HAVE A NATURAL FORM (NO SHEARING) AND A SINGLE LEADER.
7. TYPICAL SETBACKS FOR PLANT MATERIAL UNLESS OTHERWISE ADJUSTED BY THE PROJECT REPRESENTATIVE DURING LAYOUT AND STAKING OF PLANT LOCATIONS.

PLANT MATERIAL SETBACK CHART

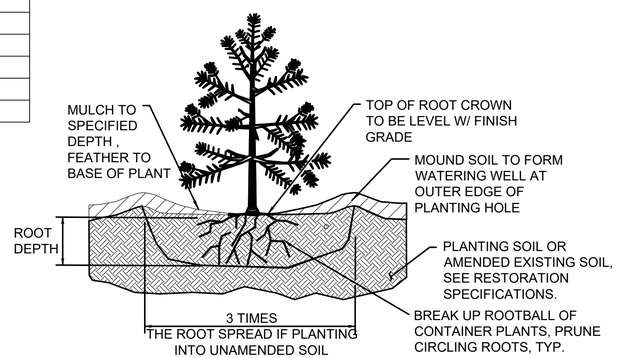
	BACK OF CURB	EDGE OF PAVEMENT	WALL	FENCE	LIGHT POLE	OVERHEAD POWER CENTERLINE	DRAINAGE STRUCTURE	UNDERGROUND SEWER/WATER LINE
GROUNDCOVER	1'	2'	0.5'	0.5'	0.5'	-	-	-
SMALL SHRUB/FERN (< 3 FT TALL)	1.3'	3.7'	3'	3'	3'	-	2.5'	2.5'
MEDIUM SHRUB (4-8 FT TALL)	2.8'	5'	5'	3'	5'	-	2.5'	2.5'
TALL SHRUB (9-15 FT TALL)	5'	5'	5'	5'	12'	-	5'	5'
TREE	per plan	per plan	per plan	per plan	15'	20'	5'	5'

SETBACK NOTES:

1. THE SETBACKS ABOVE ARE MINIMUM SETBACKS FROM CENTER OF PLANT MATERIAL (TRUNK OR STEM) TO FEATURE LISTED IN EACH COLUMN.
2. IN AREAS WHERE SMALL SHRUBS AND GROUNDCOVERS ARE SHOWN ON PLANTING PLAN, BUT THEY CANNOT BE PLANTED WITH REQUIRED SETBACKS, A MIN. OF ONE ROW OF PLANTS SHALL BE PLANTED AT THE SPECIFIED SPACING CENTERED IN THE MIDDLE OF PLANTING AREA.
3. TREE LOCATIONS SHOWN ON PLANTING PLANS ARE APPROXIMATE; IF FIELD ADJUSTMENTS ARE NECESSARY, THE SETBACKS ABOVE SHALL APPLY. PROJECT REPRESENTATIVE WILL APPROVE FINAL LOCATION.



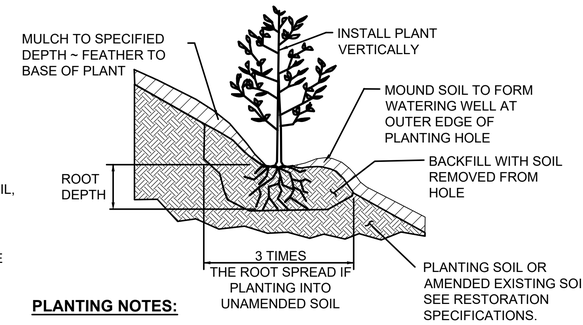
PLANTING AREA LAYOUT — 1 VAR
SCALE: NTS



PLANTING NOTES:

1. ADD MANUFACTURER-RECOMMENDED AMOUNT OF MYCORRIZAL INOCULANT.
2. DETAIL APPLIES TO ALL CONTAINERIZED PLANTS

PLANTING DETAIL — 2 VAR
SCALE: NTS



PLANTING NOTES:

1. ADD MANUFACTURER-RECOMMENDED AMOUNT OF MYCORRIZAL INOCULANT.
2. DETAIL APPLIES TO ALL CONTAINERIZED PLANTS

PLANTING ON SLOPES — 3 VAR
SCALE: NTS

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: L. FRENCH	SCALE: NTS
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

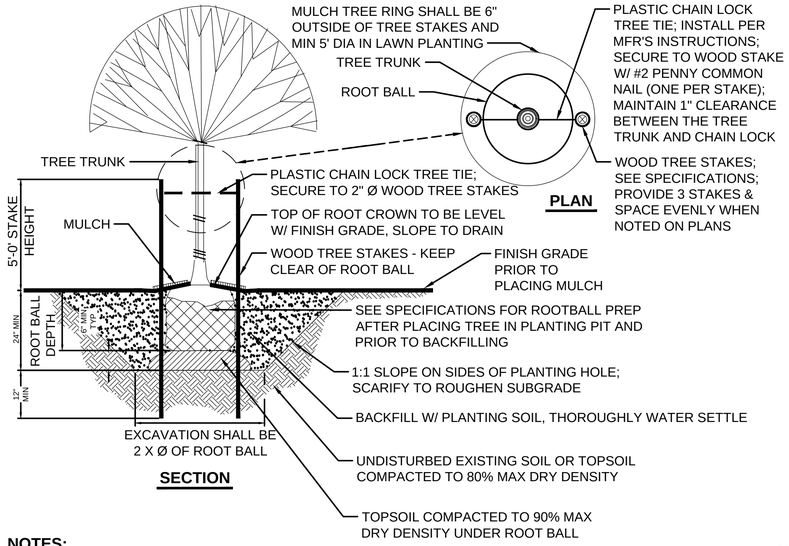
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LANDSCAPE DETAILS

DCN:	
DATE:	03/9/2020
PROJECT FILE NO:	
DRAWING NO:	L102
SHT NO / TOTAL	123 / 347
REV NO:	

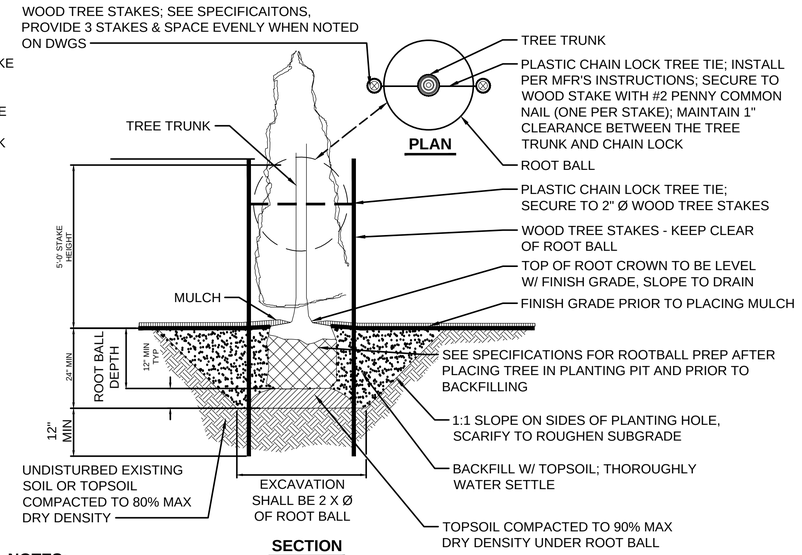
BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: \\SEAFIL01\Pro\W3X67200\700CADD\715LAND\E00306E13-NMPS-L102.dwg
PLOT DATE: 2/12/2020 7:05 PM
PLOTTED BY: French, Lacon



NOTES:

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
2. PROVIDE 24" MIN DEPTH OF TOPSOIL AT DECIDUOUS TREE EXCAVATION.
3. ROTATE TREES IN PLANTING AREAS ADJACENT TO VEHICULAR ZONES SO THAT THE DOMINANT BRANCHES ALIGN PARALLEL TO THE VEHICULAR ZONES.

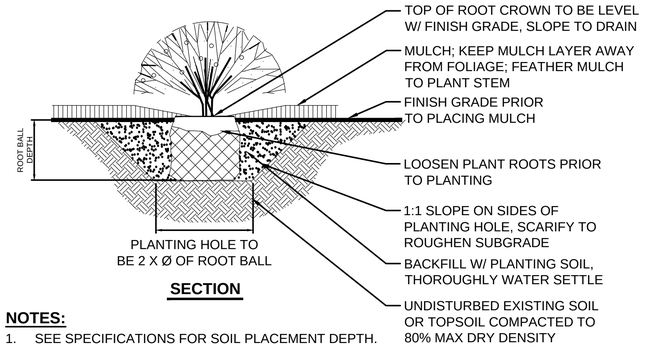
DECIDUOUS TREE PLANTING — 1 VAR
SCALE: NTS



NOTES:

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
2. PROVIDE 24" MIN DEPTH OF TOPSOIL AT CONIFER TREE EXCAVATION.
3. FOR CONIFER TREES LESS THAN 6' IN HEIGHT, ONE TREE STAKE AT AN ANGLE IS ACCEPTABLE.

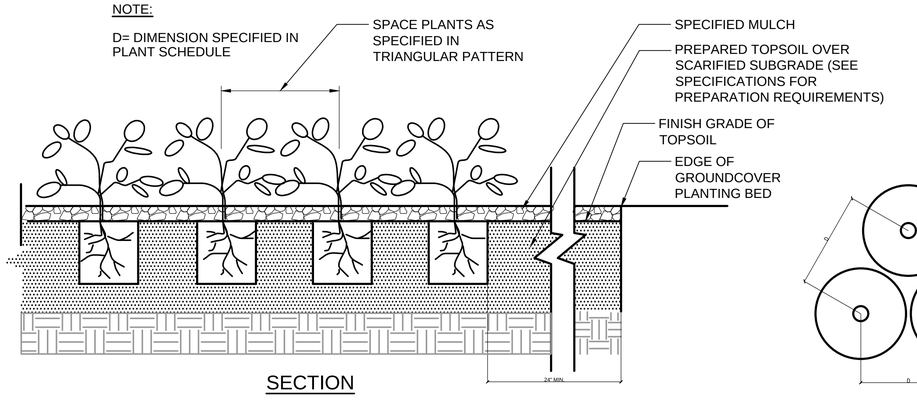
CONIFER TREE PLANTING — 2 VAR
SCALE: NTS



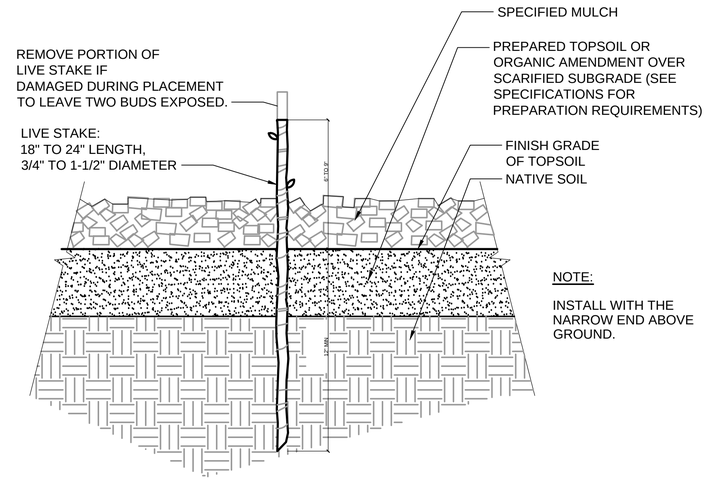
NOTES:

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.

SHRUB PLANTING — 3 VAR
SCALE: NTS



GROUNDCOVER PLANTING — 4 VAR
SCALE: NTS



LIVE STAKE INSTALLATION — 4 VAR
SCALE: NTS

FOR REFERENCE ONLY

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-NMPS-L103.dwg
PLOT DATE: 8/1/2019 3:54 PM
PLOTTED BY: Aurio, Isaac

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

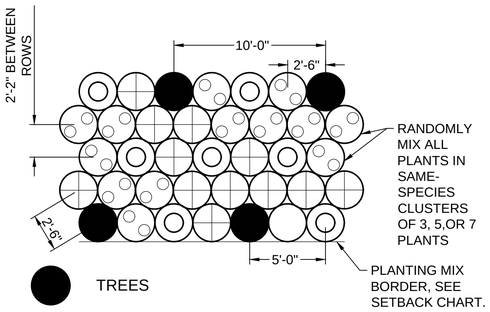
DESIGNED/DRAWN: L. FRENCH	SCALE: NTS
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LANDSCAPE DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **L103**
SHT NO 124 / TOTAL 347
REV NO:



TREES

LARGE SHRUBS

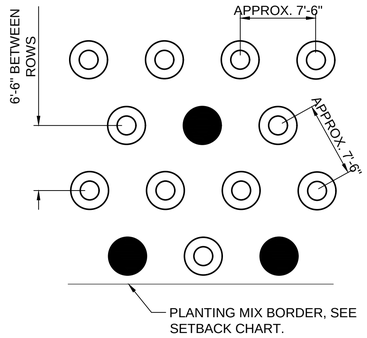
SMALL SHRUBS / FERNS

SMALL SHRUBS / FERNS, 2 PLANTS PER LOCATION (20" O.C. AROUND STAKED PLANTING LOCATION)

NOTES:

1. SEE SETBACK CHART ON L102 FOR MINIMUM SETBACK DISTANCE FROM EXISTING DESIRABLE VEGETATION.

PLANTING MIX A		
COMMON NAME	**SPACING**	**QTY.**
TREES		
CASCARA	10 FT. O.C.	18
DOUGLAS-FIR	10 FT. O.C.	35
WESTERN HEMLOCK	10 FT. O.C.	18
WESTERN REDCEDAR	10 FT. O.C.	35
LARGE SHRUBS		
INDIAN PLUM	5 FT O.C.	89
PACIFIC WAX MYRTLE	5 FT. O.C.	212
VINE MAPLE	5 FT. O.C.	141
SMALL SHRUBS / FERNS- 2.5 FT. O.C.		
BALDHIP ROSE	2.5 FT. O.C.	230
CREEPING MAHONIA	2 PER SPOT	636
WESTERN SWORDFERN	2 PER SPOT	706
SALAL	2 PER SPOT	636



TREES

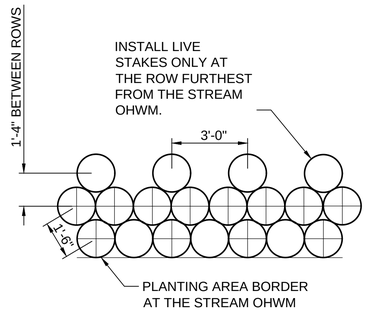
LARGE SHRUBS

NOTES:

1. SEE SETBACK CHART ON L102 FOR MINIMUM SETBACK DISTANCE FROM EXISTING DESIRABLE VEGETATION.
2. BREAK FROM GRID WHEN NECESSARY TO ACCOMMODATE QUANTITIES INDICATED IN THE PLANS.

PLANTING MIX B		
COMMON NAME	**SPACING***	**QTY.**
TREES		
CASCARA	14 FT. O.C.	3
WESTERN HEMLOCK	14 FT. O.C.	19
WESTERN REDCEDAR	14 FT. O.C.	21
LARGE SHRUBS		
INDIAN PLUM	7 FT O.C.	31
PACIFIC WAX MYRTLE	7 FT O.C.	33
TALL OREGON-GRAPE	7 FT O.C.	34
VINE MAPLE	7 FT O.C.	31

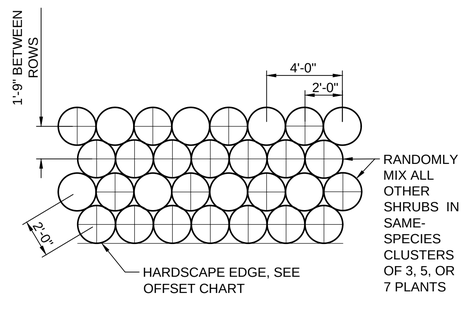
* SPACING IS APPROXIMATE. ACTUAL SPACING WILL DEPEND ON THE DENSITY OF EXISTING VEGETATION WITHIN THE INFILL PLANTING AREA.



LIVE STAKES

SLOUGH SEDGE

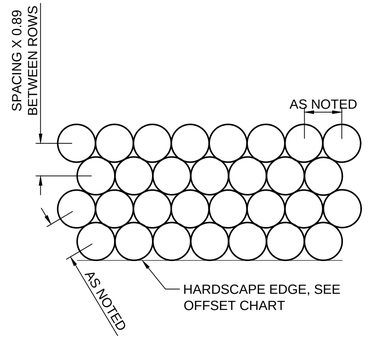
PLANTING MIX C		
COMMON NAME	**SPACING**	**QTY.**
SHRUBS (LIVE STAKES)		
RED-TWIG DOGWOOD	3 FT O.C.	68
SCOULER'S WILLOW	3 FT. O.C.	68
SITKA WILLOW	3 FT O.C.	204
GROUNDCOVERS		
SLOUGH SEDGE	1.5 FT O.C.	525



WESTERN SWORD FERN AND LARGE SHRUBS

ALL OTHER SHRUBS

PLANTING MIX D		
COMMON NAME	**SPACING**	**QTY.**
LARGE SHRUBS		
EVERGREEN HUCKLEBERRY	PER PLAN	**14**
TALL OREGON-GRAPE	PER PLAN	**14**
SHRUBS / FERNS		
CREEPING MAHONIA	2 FT. O.C.	783
LOW OREGON-GRAPE	2 FT. O.C.	392
SALAL	2 FT. O.C.	294
WESTERN SWORDFERN	4 FT. O.C.	489



GROUNDCOVER

PLANTING MIX E		
COMMON NAME	**SPACING**	**QTY.**
GROUNDCOVER		
BARRENWORT 'FROHNLEITEN'	1.5 FT. O.C.	532

PLANTING MIX F		
COMMON NAME	**SPACING**	**QTY.**
GROUNDCOVER		
BIG BLUE LILYTURF	1.5 FT. O.C.	400

PLANTING MIX G		
COMMON NAME	**SPACING**	**QTY.**
GROUNDCOVER		
COMMON RUSH	1 FT. O.C	159
SLOUGH SEDGE	1 FT. O.C.	106

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: L. FRENCH	SCALE: NTS
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

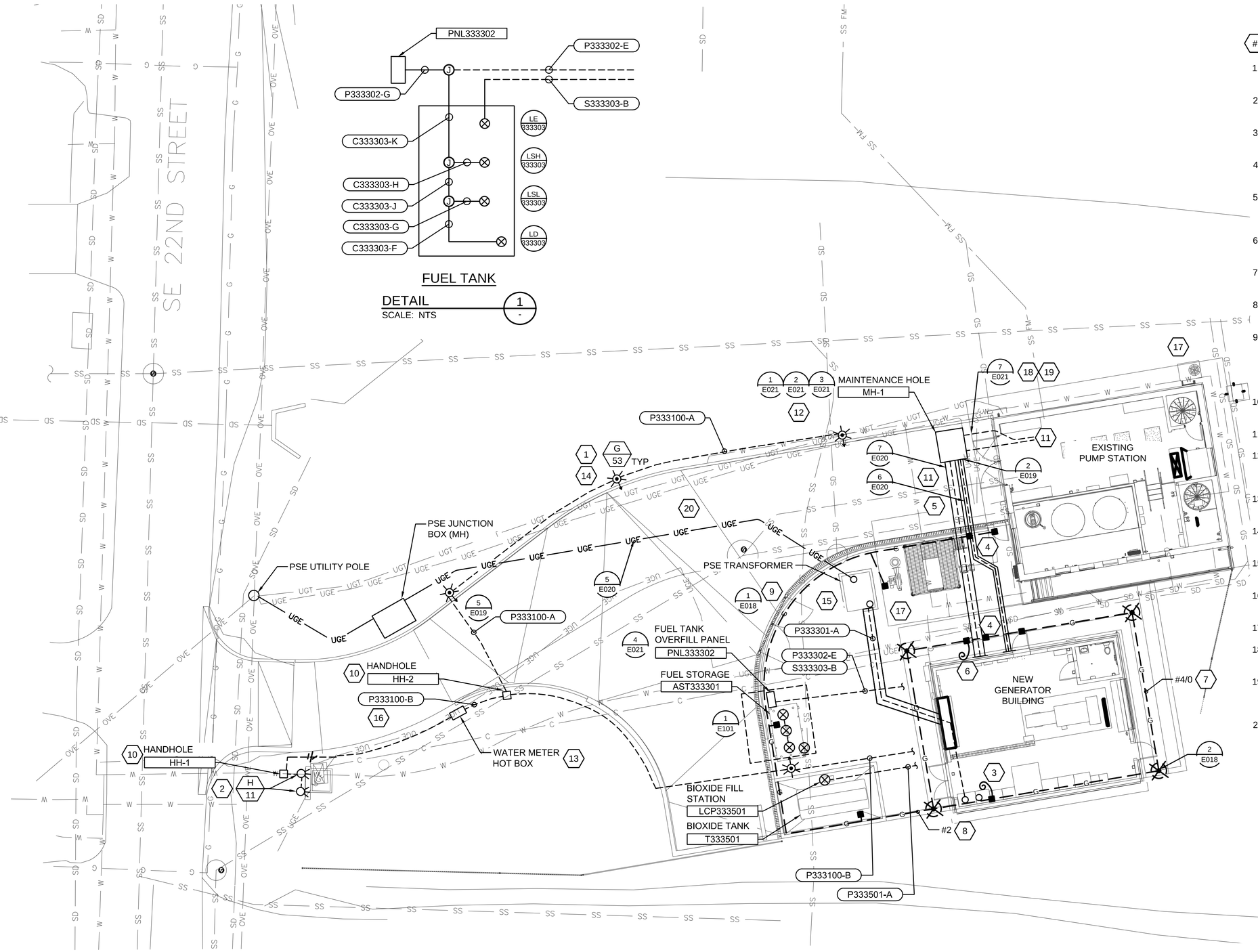
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LANDSCAPE DETAILS

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **L104**
SHT NO / TOTAL: 131 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: \\SEAFIL01\Pro\W3X67200\700CADD\715LAND\E00306E13-NMPS-L104.dwg
PLOT DATE: 4/25/2019 4:31 PM
PLOTTED BY: Li, Shaotian



KEY NOTES:

1. MAXIMUM OVERALL HEIGHT OF POLE BASE, POLE, AND LUMINARIE SHALL NOT EXCEED 16 FEET AFG.
2. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS FOR SIGN LIGHTING.
3. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO TIE INTO NEUTRAL BUS AT SWBD333301
4. BOND GROUNDING LOOP CONDUCTOR TO BOTH ENCASED DUCTBANK GROUND CONDUCTORS.
5. LOCATE EXISTING BUILDING GROUNDING ELECTRODE SYSTEM AND BOND TO BOTH DUCTBANK GROUND CONDUCTORS.
6. PROVIDE CONNECTION TO GROUND FOR SEPARATELY DERIVED SOURCE TFR333301.
7. PROVIDE #4/0 AWG GROUND LOOP BETWEEN GROUND RODS.
8. PROVIDE #2 AWG BONDING CONDUCTOR BETWEEN GROUND LOOP AND ALL YARD EQUIPMENT AND FENCE.
9. PROVIDE MECHANICAL /BOLTED BONDING CONNECTIONS TO THE FENCE AND GATE SYSTEM. BOND FENCE TO GROUNDING STUD OR ANCHORING BOLTS AT EACH SECTION OF FENCE. AT GATE PROVIDE TINNED COPPER BONDING BRAID RATE 150A FOR EACH GATE SECTION.
10. PROVIDE HANDHOLE WITH NOMINAL DIMENSIONS 25"x16"X12" DEEP, WITH COMPOSITE COVER
11. SLOPE ALL CONDUIT TO MAINTENANCE HOLE TO DRAIN.
12. PROVIDE MAINTENANCE HOLE (MH-1) AS UTILITY VAULT 507-LA, WITH 42" DIAMETER CAST IRON LID, WITH "ELECTRICAL" CAST INTO LID.
13. COORDINATE WITH CIVIL AND MECHANICAL FOR FINAL LOCATION.
14. BOND LIGHT POLE & BASE TO EQUIPMENT GROUNDING CONDUCTOR.
15. COORDINATE WITH CIVIL FOR BOLLARDS AROUND PSE'S TRANSFORMER.
16. THIS ROUTING MUST BE TAKEN FOR PROPER OPERATION GFEP CIRCUIT BREAKER.
17. ADDITIONAL WORK IN THIS AREA. SEE SHEET E-201.
18. PROVIDE PROTECTIVE CONCRETE CAP BETWEEN MH-1 AND THE NORTH WALL OF THE CONTROL ROOM.
19. TRANSITION CONDUITS FROM MH-1 TO NORTH WALL PENETRATION AS NECESSARY TO CONFORM TO DETAIL 5, SHEET E021.
20. COORDINATE WITH CIVIL AND DEMO DRAWINGS FOR NEW AND EXISTING UNDERGROUND UTILITIES.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: R. FRITCH	SCALE: 1"=10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: 333
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

ELECTRICAL SITE PLAN

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	E101
SHT NO / TOTAL	297 / 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: O:\Projects\Seattle\125391\35-12539-1600\CAD\SheetFiles\333-E003006E13E101.dwg
PLOT DATE: 4/25/2019 1:42 PM
PLOTTED BY: Melling, Vickie

GENERAL NOTES

1. A COPY OF THESE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE KEPT ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THESE DOCUMENTS SHALL BE KEPT UP TO DATE BY THE CONTRACTOR TO REFLECT THE CURRENT STATUS OF THE PROJECT AND ANY/ALL REVISIONS, DELETIONS, CHANGE ORDERS, ETC.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION AND EROSION CONTROL FACILITIES AND BEST MANAGEMENT PRACTICES (BMP'S), TO ENSURE THAT EROSION OF THE SITE DOES NOT OCCUR AND THAT WATER CONTAINING SEDIMENT DOES NOT LEAVE THE SITE. FACILITIES AND BMP'S SHALL BE ADJUSTED AS SEASONAL CHANGES OCCUR AND AS SITE CONDITIONS CHANGE.
3. THE CONTRACTOR SHALL PROVIDE CONTINUAL MAINTENANCE AND CLEANING OF THE WORK AREAS, THE ROADS AND FACILITIES USED BY THE CONTRACTOR AND SUBCONTRACTORS, AND THOSE PORTIONS OF THE CONTRACTOR'S YARD AND THE LAY-DOWN AREA USED BY THE CONTRACTOR AND SUBCONTRACTORS. STREETS AND RESIDENTIAL DRIVEWAYS SHALL BE KEPT CLEAR AND CLEAN THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL PREVENT CONSTRUCTION DEBRIS OR OTHER OBJECTIONABLE MATERIAL FROM ENTERING NEARBY WATERWAYS AND WETLAND AREAS. CONSTRUCTION EQUIPMENT SHALL NOT ENTER THE WATERS OF STREAMS OR WETLANDS.
5. CONSTRUCTION EQUIPMENT SHALL BE CONTINUOUSLY MAINTAINED IN WORKING ORDER AND FREE FROM LEAKING FLUIDS. EQUIPMENT WHICH, IN THE SOLE OPINION OF THE PROJECT REPRESENTATIVE, IS IN POOR OPERATING CONDITION, SHALL BE REMOVED FROM THE SITE TO THE SATISFACTION OF THE PROJECT REPRESENTATIVE. SPILL CONTAINMENT AND CLEANUP MATERIAL SHALL BE MAINTAINED AT ALL ACTIVE CONSTRUCTION SITES.
6. CONSTRUCTION EQUIPMENT SHALL BE SERVICED AND MAINTAINED ONLY WITHIN AREAS APPROVED FOR THAT PURPOSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARD, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF ITS WORKERS, PUBLIC, AND EVERYONE WITHIN THE PROJECT VICINITY, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
8. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE A TRAFFIC CONTROL PLAN.

CONSTRUCTION SEQUENCING NOTES

NOTE: THIS IS A POSSIBLE SEQUENCE. FINAL SEQUENCE SHALL BE DEVELOPED BY CONTRACTOR, AND SUBJECT TO REVIEW BY PROJECT REPRESENTATIVE.

1. ATTEND PRE-CONSTRUCTION MEETING WITH KING COUNTY.
2. OBTAIN PROJECT REPRESENTATIVE APPROVAL AND ALL REQUIRED PERMITS DOCUMENTED IN THE SPECIFICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION BEYOND THOSE PROVIDED BY KING COUNTY AND ANY NECESSARY AGREEMENTS WITH PROPERTY OWNERS PRIOR TO COMMENCING WORK.
3. NOTIFY PROJECT REPRESENTATIVE A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR WRITTEN NOTICE TO PROCEED BY PROJECT REPRESENTATIVE.
4. CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROLS AND TEMPORARY STORMWATER TREATMENT FACILITIES.
5. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND THESE PLANS AND SPECIFICATIONS THROUGHOUT PROJECT.
6. INSTALL TEMPORARY DIVERSION PUMP SYSTEM PER DIVERSION PLAN. CONTRACTOR SHALL ENSURE EXISTING SANITARY SEWER LINES REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION.
7. REHABILITATE EXISTING LS11 FORCE MAIN (CIPP) AND INSTALL NEW FORCE MAIN EXTENSION.
8. REMOVE EXISTING LIFT STATION COMPONENTS PER DEMOLITION PLAN.
9. INSTALL COATINGS IN EXISTING DRY WELL.
10. INSTALL ALL LIFT STATION MODIFICATIONS AND COMPONENTS.
11. REPAIR AND FILL/CHANNEL EXISTING WET WELL AND INSTALL DROP CONNECTION. INSTALL COATINGS.
12. PERFORM TESTING AND START-UP FOR STATION.
13. REMOVE TEMPORARY DIVERSION PUMPING SYSTEM PER DIVERSION PLAN.
14. COMPLETE ALL SITE RESTORATION.
15. REMOVE TEMPORARY BMPS ONLY AFTER ALL DANGER OF EROSION HAS PASSED AND AFTER APPROVAL BY PROJECT REPRESENTATIVE.

UTILITY NOTES

1. UTILITIES ENCOUNTERED DURING EXCAVATION SHALL BE TRACED OUT AND REMOVED AND REPLACED OR SUPPORTED AS REQUIRED DURING CONSTRUCTION. INTERRUPTION OF A UTILITY SERVICE TO BUSINESSES OR RESIDENCES SHALL NOT OCCUR WITHOUT WRITTEN APPROVAL FROM THE PROJECT REPRESENTATIVE.
2. ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PROJECT. NOTIFY PROJECT REPRESENTATIVE OF ANY CONFLICTS PRIOR TO PROCEEDING WITH THE WORK. UTILITY VERIFICATION POTHOLING SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. WHEN UTILITY SERVICES OCCUPY THE SAME SPACE AS THE PROPOSED FORCE MAIN OR GRAVITY SEWERS, THE CONTRACTOR SHALL DO ALL NECESSARY EXCAVATION TO FULLY EXPOSE SUCH SERVICES. THE CONTRACTOR SHALL PROTECT SAID SERVICES AND WORK AROUND THEM DURING EXCAVATING AND PIPE LAYING OPERATIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE SERVICES DUE TO THE CONTRACTOR'S OPERATION AND SHALL IMMEDIATELY NOTIFY THE PROJECT REPRESENTATIVE AND ARRANGE FOR REPLACEMENT OF ALL DAMAGED SERVICES.
4. IN THE EVENT OF CONFLICT, THE CONTRACTOR SHALL REMOVE AND RESTORE EXISTING CATCH BASIN CONNECTIONS, INLET CONNECTIONS, DRAINS, SIDE SEWERS, INLETS, AND OTHER SEWAGE, DRAINAGE AND WATER FACILITIES. ALL SEWERAGE AND DRAINAGE RESTORATION SHALL BE CONSTRUCTED TO CURRENT CITY OF MERCER ISLAND OR WSDOT STANDARDS AS APPROPRIATE. MAINLINE WATER LINE, SEWERS AND STORM DRAINS SHALL NOT BE DAMAGED, REMOVED OR RELOCATED EXCEPT AS NOTED, WITHOUT WRITTEN APPROVAL OF THE PROJECT REPRESENTATIVE.
5. ALL ABANDONED PIPES SHALL BE REMOVED AND/OR FILLED WITH CDF AND PLUGGED PER THE LOCAL AGENCY REQUIREMENTS, AND AS SHOWN IN THE DRAWINGS. WHERE ABANDONED IN PLACE, MARK END LOCATIONS ON REDLINES FOR CONSTRUCTION RECORD DRAWINGS.
6. OVERHEAD ELECTRICAL, TELEPHONE, AND CABLE LINES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD LINES IN ALL AREAS AND FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAWS AND REGULATIONS, UTILITY OWNER, AND SAFE CONSTRUCTION PRACTICES.
7. WHERE CLEARANCE BETWEEN EXISTING OR REPLACED UTILITIES IS 12 INCHES OR LESS, PLACE POLYETHYLENE FOAM BLOCKING ON TOP OF THE LOWEST UTILITY.
8. A MINIMUM COVER OF 3 FT HAS BEEN ADOPTED FROM EXISTING SURFACE LEVEL TO THE CROWN OF THE NEW FORCE MAINS AND GRAVITY MAINS.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL UTILITY RELOCATION REQUIREMENTS.

SITE PREPARATION NOTES

1. ALL CLEARING & GRADING CONSTRUCTION MUST BE IN ACCORDANCE WITH CITY OF MERCER ISLAND (COMI) REQUIREMENTS. VARIANCE FROM ADOPTED EROSION CONTROL STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE COMI LAND USE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
2. THE AREA TO BE CLEARED AND GRADED SHALL BE FLAGGED BY THE CONTRACTOR AND APPROVED BY THE CLEARING AND GRADING INSPECTOR PRIOR TO BEGINNING ANY WORK ON THE SITE.
3. A SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH DWGS C011 AND C012, VOLUME 2 AND SHALL BE LOCATED AS SHOWN ON THE APPROVED PLANS OR PER THE PROJECT REPRESENTATIVE.
4. A STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED PER DWG C011, VOLUME 2. THIS PAD MUST REMAIN IN PLACE UNTIL PAVING IS INSTALLED.
5. CLEARING SHALL BE LIMITED TO THE AREAS WITHIN THE APPROVED DISTURBANCE LIMITS AS SHOWN ON THE CLEARING AND GRADING PERMIT OR PER THE CLEARING AND GRADING INSPECTOR. EXPOSED SOILS SHALL BE COVERED AT THE END OF EACH WORKING DAY WHEN WORKING FROM OCTOBER 1ST THROUGH APRIL 30TH. COVER EXPOSED SOILS FROM MAY 1ST THROUGH 30TH SEPTEMBER AT THE END OF EACH CONSTRUCTION COVER EXPOSED SOILS WEEK AND ALSO AT THE THREAT OF RAIN.
6. ANY EXCAVATED MATERIAL REMOVED FROM THE CONSTRUCTION SITE AND DEPOSITED ON PROPERTY WITHIN THE CITY LIMITS SHALL BE DONE IN COMPLIANCE WITH A VALID CLEARING & GRADING PERMIT. LOCATIONS FOR THE MOBILIZATION AREA AND STOCKPILED MATERIAL SHALL BE APPROVED BY THE CLEARING AND GRADING INSPECTOR AT LEAST 24 HOURS IN ADVANCE OF ANY STOCKPILING.
7. THE CONTRACTOR MUST MAINTAIN A SWEEPER ON SITE DURING EARTHWORK AND IMMEDIATELY REMOVE SOIL THAT HAS BEEN TRACKED ONTO PAVED AREAS AS RESULT OF CONSTRUCTION.

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

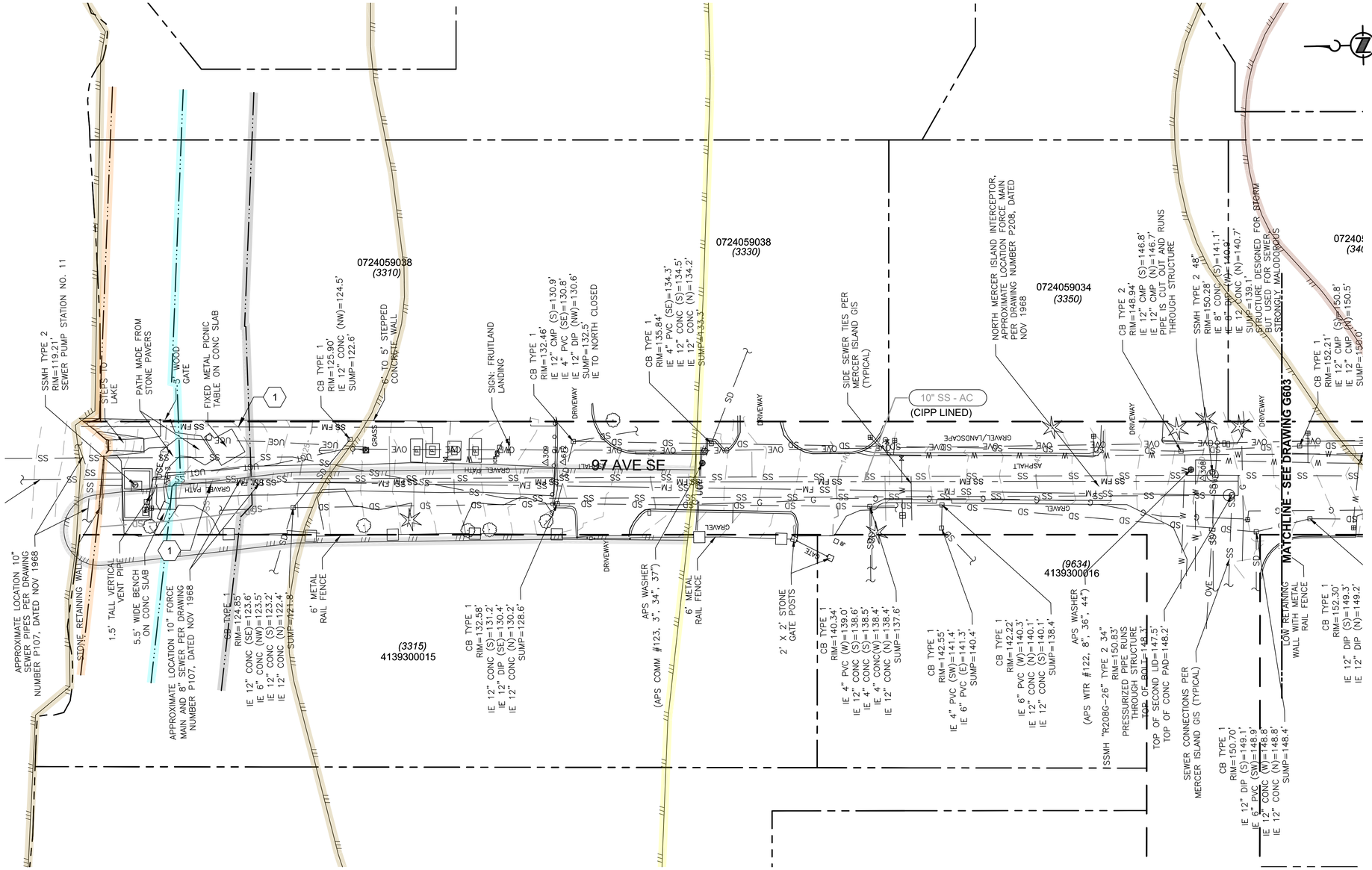
DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
LIFT STATION 11
GENERAL NOTES

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G601**
SHT NO 2 / TOTAL / REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-G601.dwg
PLOT DATE: 8/2/2019 7:44 AM
PLOTTED BY: D'Auria, Isaac



THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

NOTES:

1. THE INTENT OF THIS DRAWING IS TO PRESENT THE LOCATION OF THE EXISTING SURVEYED INFORMATION.
2. PIPE DIAMETERS SHOWN FOR EXISTING UTILITIES ARE NOMINAL. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE DIAMETER PRIOR TO MANUFACTURE OR ORDER OF SPECIFIC LINERS, FITTINGS, OR APPURTENANCES THAT ARE DIAMETER DEPENDENT.
3. BASEMAP WAS PROVIDED BY 1 ALLIANCE GEOMETRIC, LLC.

(#) KEY NOTES:

1. LINE NOT SURVEYED.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60
SCALE IN FEET

1 ALLIANCE GEOMATICS SURVEYING & MAPPING
MBE/DBE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. VANBUSKIRK	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

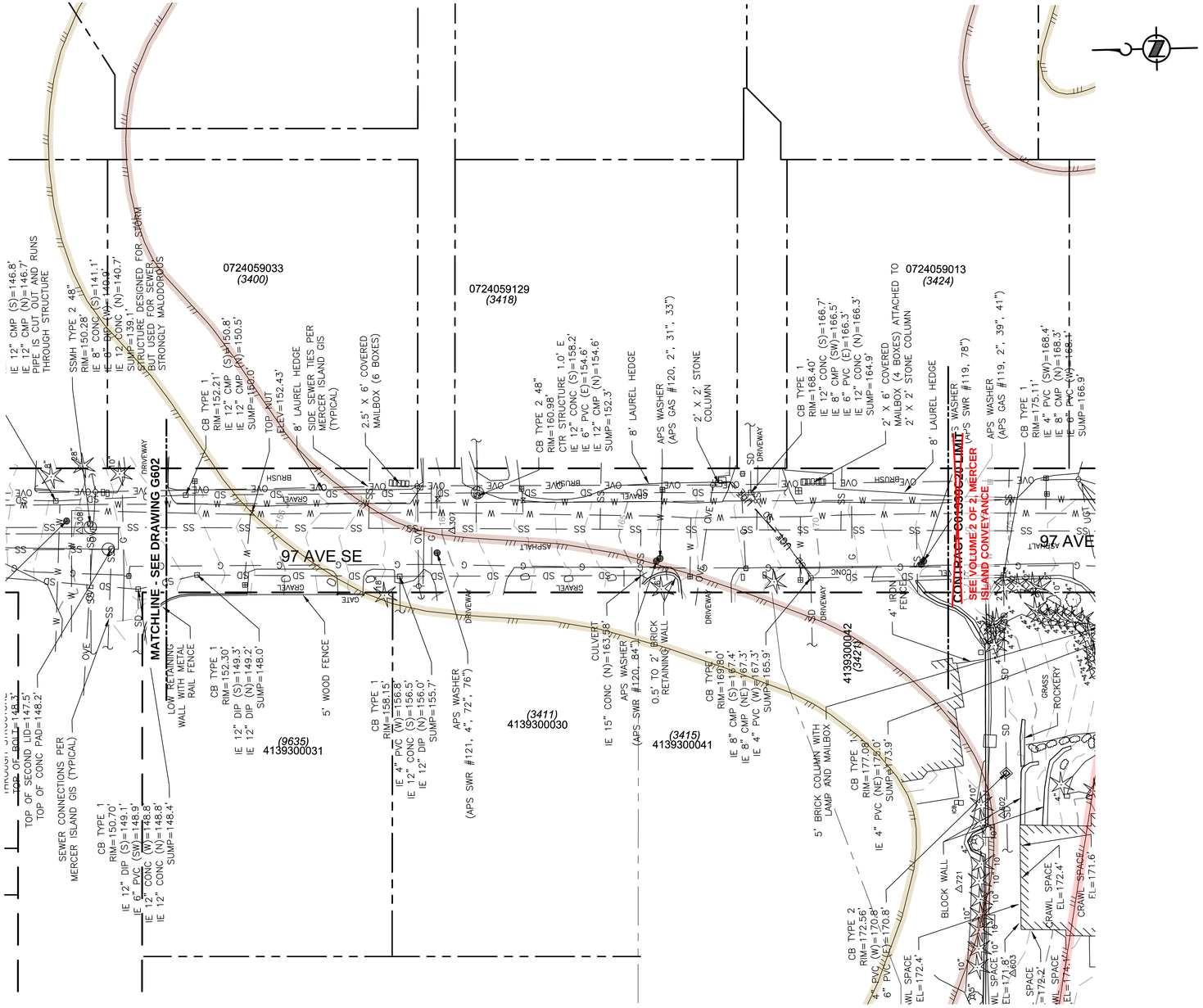
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN TOPOGRAPHIC SURVEY STA 0+00 TO STA 3+64

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: G602
SHT NO / TOTAL: G602 /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Conduse Permit Drawings\Station\E00306E13-LS11-G602.dwg
PLOT DATE: 9/27/2019 9:34 AM
PLOTTED BY: D'Auria, Isaac



NOTES:

1. THE INTENT OF THIS DRAWING IS TO PRESENT THE LOCATION OF THE EXISTING SURVEYED INFORMATION.
2. PIPE DIAMETERS SHOWN FOR EXISTING UTILITIES ARE NOMINAL. CONTRACTOR SHALL FIELD VERIFY EXACT PIPE DIAMETER PRIOR TO MANUFACTURE OR ORDER OF SPECIFIC LINERS, FITTINGS, OR APPURTENANCES THAT ARE DIAMETER DEPENDENT.
3. BASEMAP WAS PROVIDED BY 1 ALLIANCE GEOMETRIC, LLC.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60
SCALE IN FEET

1 ALLIANCE GEOMATICS SURVEYING & MAPPING
MBE/DBE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

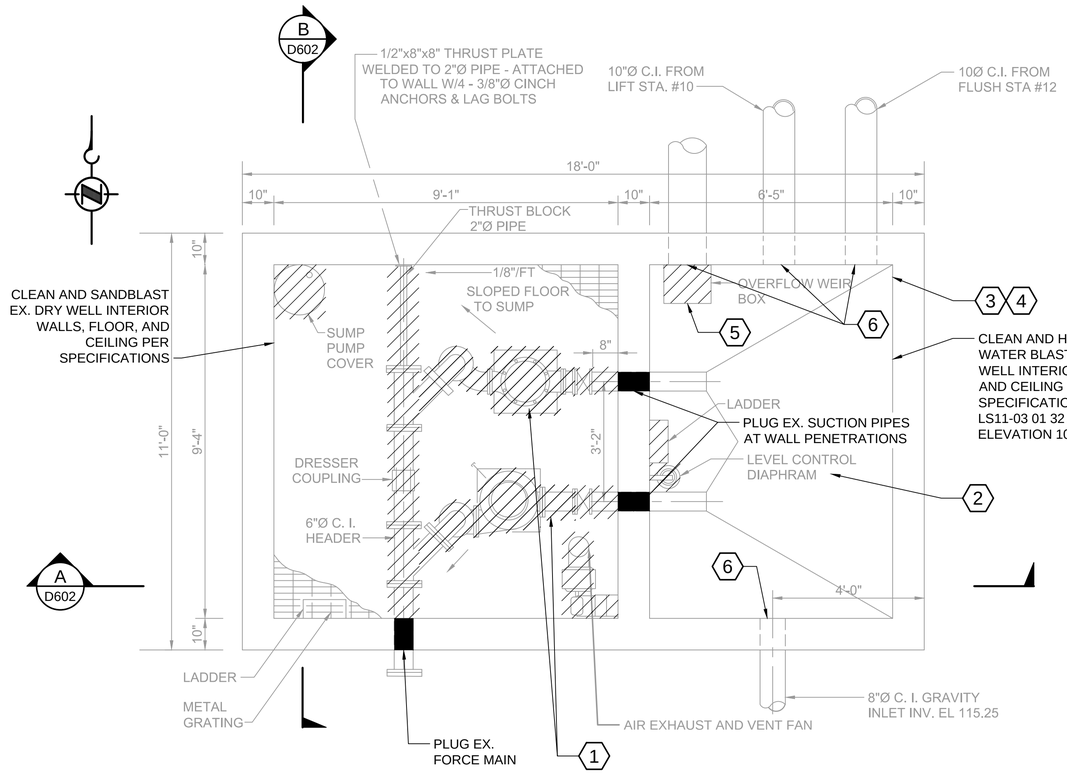
DESIGNED/DRAWN: E. VANBUSKIRK	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

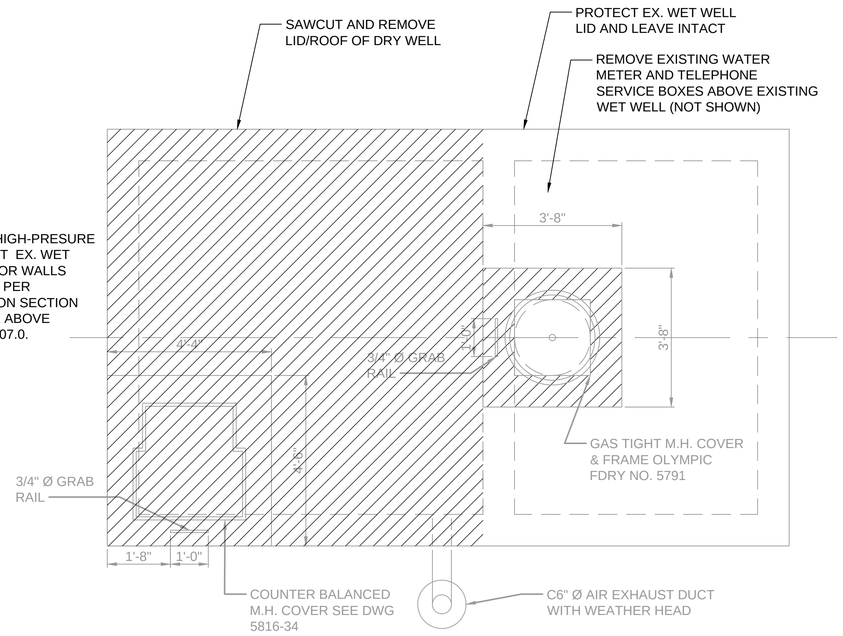
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
LIFT STATION 11 FORCE MAIN TOPOGRAPHIC SURVEY STA 3+64 TO STA 6+16

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **G603**
SHT NO / TOTAL: G603 /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-G603.dwg
PLOT DATE: 8/1/2019 4:47 PM
PLOTTED BY: D'Auria, Isaac



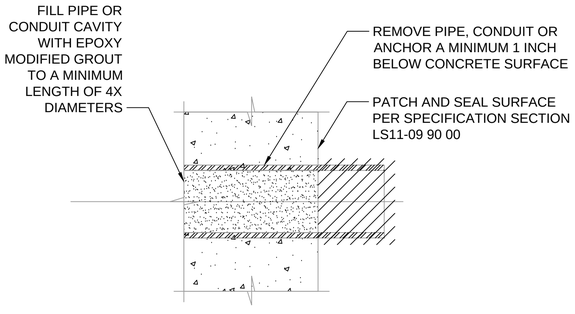
EXISTING FLOOR PLAN



EXISTING ROOF PLAN

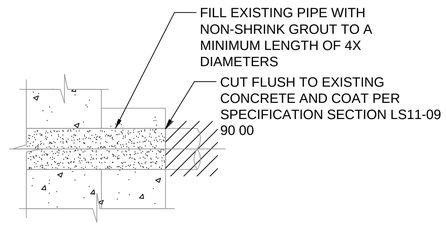
EXISTING STATION PLAN

DETAIL 1 / D601
SCALE: NTS



TYPICAL PENETRATION DEMOLITION FOR PIPES AND CONSUITS SMALLER THAN 4"

DETAIL A / -
SCALE: NTS



PENETRATION DEMOLITION FOR EXISTING PIPING 4" AND LARGER

DETAIL B / -
SCALE: NTS

NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING STATION COMPONENTS AND SALVAGE OR RECYCLE/DISPOSE OF THEM AS REQUIRED AND APPROVED BY THE PROJECT REPRESENTATIVE.
2. ALL MATERIALS IDENTIFIED FOR REMOVAL AND NOT TO BE SALVAGED TO CITY SHALL BE HAULED OFFSITE AND RECYCLED OR DISPOSED OF PER SPECIFICATIONS AT AN APPROVED WASTE DISPOSAL SITE SELECTED BY CONTRACTOR.
3. INTERIOR WALL/ROOF/FLOOR DEFORMATIONS/DAMAGE CAUSED BY REMOVAL OF EQUIPMENT, BRACKETS, AND BOLTS SHALL BE FILLED WITH NON-SHRINK GROUT AND FINISHED FLUSH WITH WALL FACES.
4. FILL ALL ABANDONED/UNUSED PIPE/CONDUIT PENETRATIONS WITH NON-SHRINK GROUT PER DETAILS A AND B THIS SHEET.
5. COORDINATE WITH PROJECT REPRESENTATIVE FOR DEACTIVATING AND LOCKING OUT POWER TO EXISTING FACILITIES PRIOR TO DEMOLITION. REMOVE AND DISPOSE OF ALL EXPOSED CONDUIT AND CABLE WITHIN EX. WET WELL AND DRY WELL. REMOVE AND DISPOSE BURIED CONDUIT AND CABLE TO BE ABANDONED THAT IS EXPOSED DURING WORK, OTHERWISE ABANDON IN PLACE.
6. SEE SHEET C602 FOR DEMOLITION OF EX. PARK BENCH CONCRETE SLAB (NOT SHOWN THIS SHEET).

(X) KEY NOTES:

1. EXISTING DRY WELL: REMOVE SEWAGE PUMPS, MOTORS, VALVES, AND ASSOCIATED PIPING WITHIN EX. DRY WELL. REMOVE SUMP PUMP, COVER, PIPING, VENT FAN, AIR DUCT AND HOOD, MISC. PIPING, LEVEL CONTROL SYSTEM, AND RELATED APPURTENANCES. SALVAGE PUMPS, MOTORS, TSI CONTROL/TELEMETRY PANEL, ELECTRICAL DISCONNECT, FUSE PANEL, FUSES AND EQUIPMENT TROLLEY HOIST/BEAM (NOT SHOWN) TO CITY MAINTENANCE SHOP AND RECYCLE/DISPOSE OF OTHER ITEMS.
2. EXISTING WET WELL: PREVIOUS LEVEL CONTROL SYSTEM WAS REPLACED WITH A SUBMERSIBLE LEVEL TRANSDUCER AND FLOATS IN EX. WET WELL. SALVAGE EXISTING LEVEL TRANSDUCER FOR USE IN NEW WET WELL. PULL AND KEEP EXISTING TRANSDUCER CABLE INTACT, CLEAN/DISINFECT TRANSDUCER AND CABLE PRIOR TO RE-USE. REMOVE AND RECYCLE/DISPOSE EXISTING FLOATS AND ANY REMAINING COMPONENTS OF PREVIOUS LEVEL CONTROL SYSTEM IN EX. WET WELL.
3. EXISTING WET WELL: REMOVE AND RECYCLE/DISPOSE OF ALL INTERIOR COMPONENTS, EXCEPT AS DESCRIBED IN NOTE 2.
4. EXISTING CONCRETE LID AND WALLS IN EX. WET WELL HAVE HYDROGEN SULFIDE DAMAGE. CLEAN EX. WET WELL INTERIOR WALLS AND HIGH-PRESSURE WATER BLAST TO REMOVE LOOSE, AND DAMAGED CONCRETE, TO EXPOSED REBAR AS NEEDED. SEE SPECIFICATION SECTION 01 13 00, VOLUME 1, FOR REFERENCE TO MEMO SUMMARIZING OBSERVATIONS OF EXISTING WET WELL CONDITIONS AND PHOTOS.
5. REMOVE EXISTING WEIR BOX FROM EX. WET WELL. LEAVE OUTGOING PIPE INTACT.
6. PROTECT EXISTING PIPE DURING CLEANING AND WATER BLASTING OPERATIONS TO PREVENT DAMAGE AND SEDIMENTATION.

FOR REFERENCE ONLY

1' 0' 1' 2' 3' 4' 5'
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

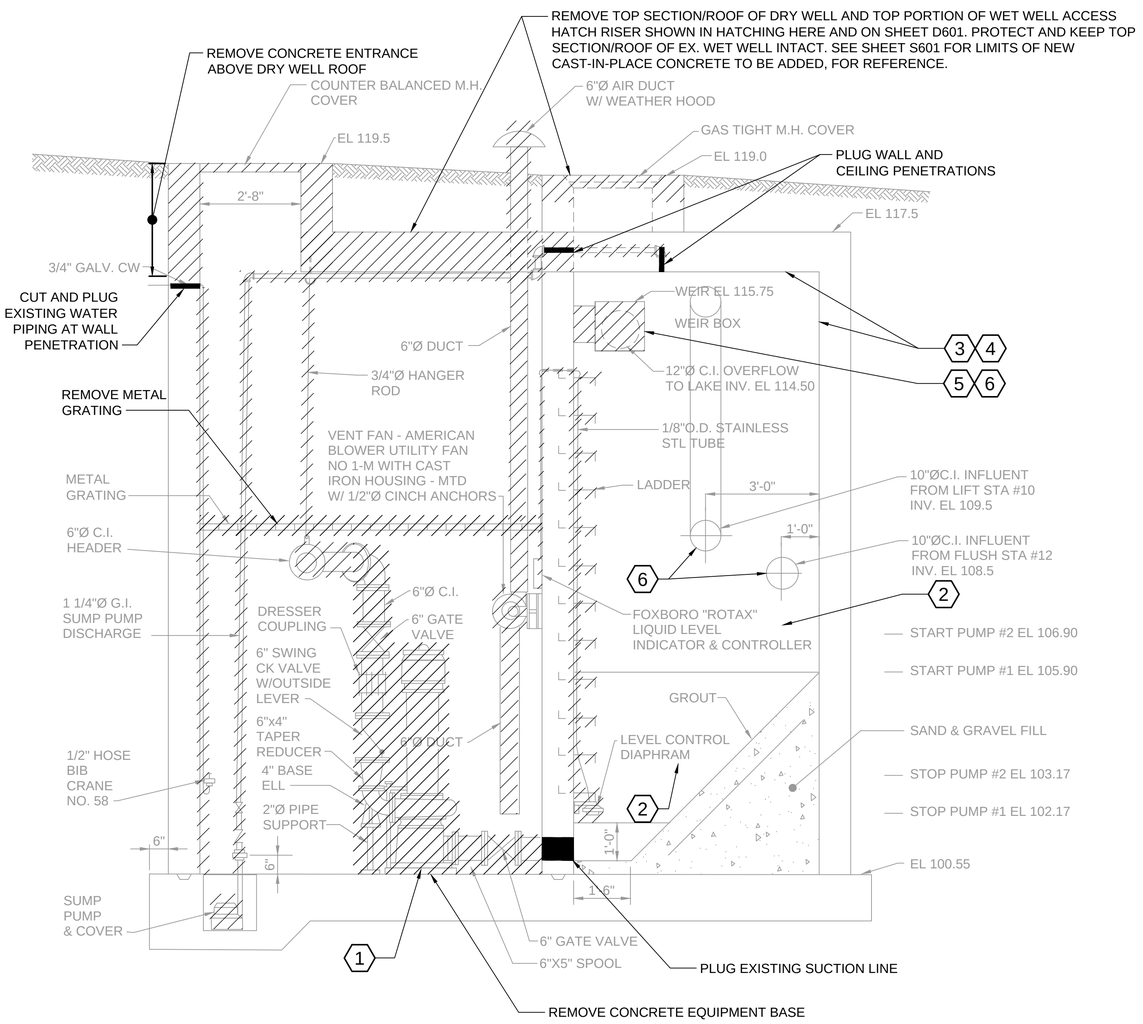
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

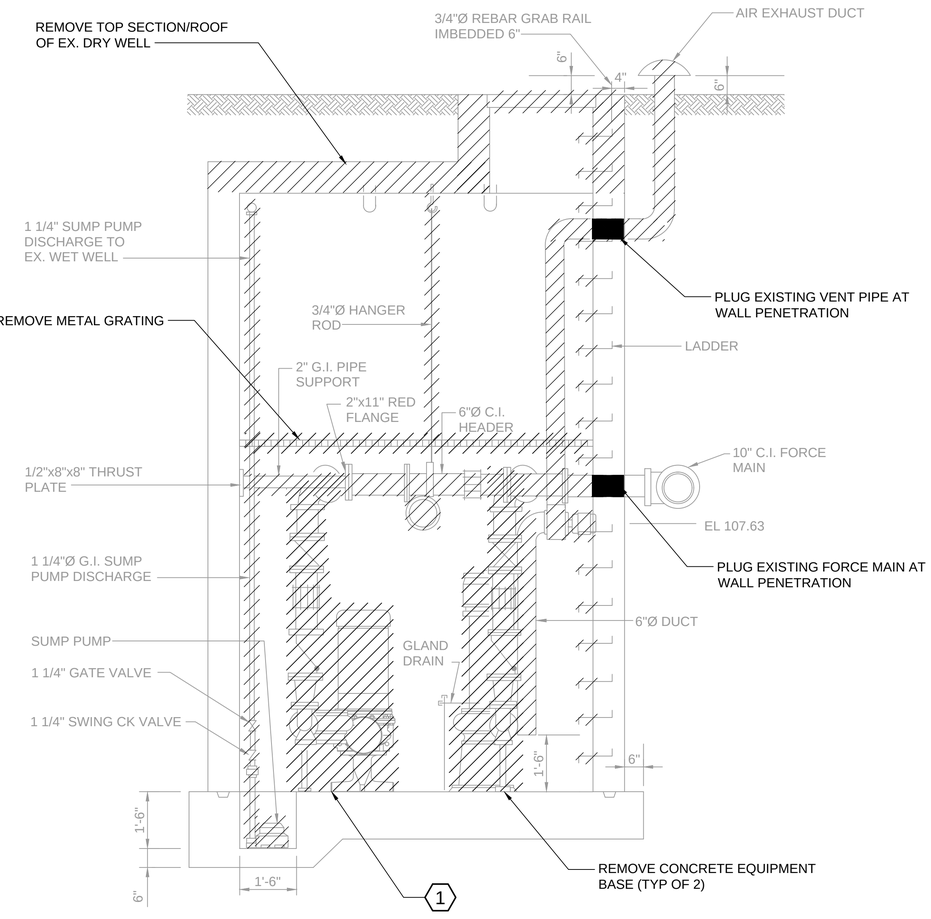
LIFT STATION 11 DEMOLITION PLAN AND NOTES

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: D601
SHT NO / TOTAL: 358 / 393
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize+TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\LS 11\E00306E13-LS11-D601.dwg
PLOT DATE: 4/26/2019 10:44 AM
PLOTTED BY: Danielson, Janet



SECTION A D601
SCALE: NTS



SECTION B D601
SCALE: NTS

X KEY NOTES:

1. EXISTING DRY WELL: REMOVE SEWAGE PUMPS, MOTORS, VALVES, AND ASSOCIATED PIPING WITHIN EX. DRY WELL. REMOVE SUMP PUMP, COVER, PIPING, VENT FAN, AIR DUCT AND HOOD, MISC. PIPING, LEVEL CONTROL SYSTEM, AND RELATED APPURTENANCES. SALVAGE PUMPS, MOTORS, TSI CONTROL/TELEMETRY PANEL, ELECTRICAL DISCONNECT, FUSE PANEL, FUSES AND EQUIPMENT TROLLEY HOIST/BEAM (NOT SHOWN) TO CITY MAINTENANCE SHOP AND RECYCLE/DISPOSE OF OTHER ITEMS.
2. EXISTING WET WELL: PREVIOUS LEVEL CONTROL SYSTEM WAS REPLACED WITH A SUBMERSIBLE LEVEL TRANSDUCER AND FLOATS IN EX. WET WELL. SALVAGE EXISTING LEVEL TRANSDUCER FOR USE IN NEW WET WELL. PULL AND KEEP EXISTING TRANSDUCER CABLE INTACT, CLEAN/DISINFECT TRANSDUCER AND CABLE PRIOR TO RE-USE. REMOVE AND RECYCLE/DISPOSE EXISTING FLOATS AND ANY REMAINING COMPONENTS OF PREVIOUS LEVEL CONTROL SYSTEM IN EX. WET WELL.
3. EXISTING WET WELL: REMOVE AND RECYCLE/DISPOSE OF ALL INTERIOR COMPONENTS, EXCEPT AS DESCRIBED IN NOTE 2.
4. EXISTING CONCRETE LID AND WALLS IN EX. WET WELL HAVE HYDROGEN SULFIDE DAMAGE. CLEAN EX. WET WELL INTERIOR WALLS AND HIGH-PRESSURE WATER BLAST TO REMOVE LOOSE, AND DAMAGED CONCRETE, TO EXPOSED REBAR AS NEEDED. SEE SPECIFICATION SECTION 01 13 00, VOLUME 1, FOR REFERENCE TO MEMO SUMMARIZING OBSERVATIONS OF EXISTING WET WELL CONDITIONS AND PHOTOS.
5. REMOVE EXISTING WEIR BOX FROM EX. WET WELL. LEAVE OUTGOING PIPE INTACT.
6. PROTECT EXISTING PIPE DURING CLEANING AND WATER BLASTING OPERATIONS TO PREVENT DAMAGE AND SEDIMENTATION.

FOR REFERENCE ONLY

1' 0' 1' 2' 3' 4' 5'
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

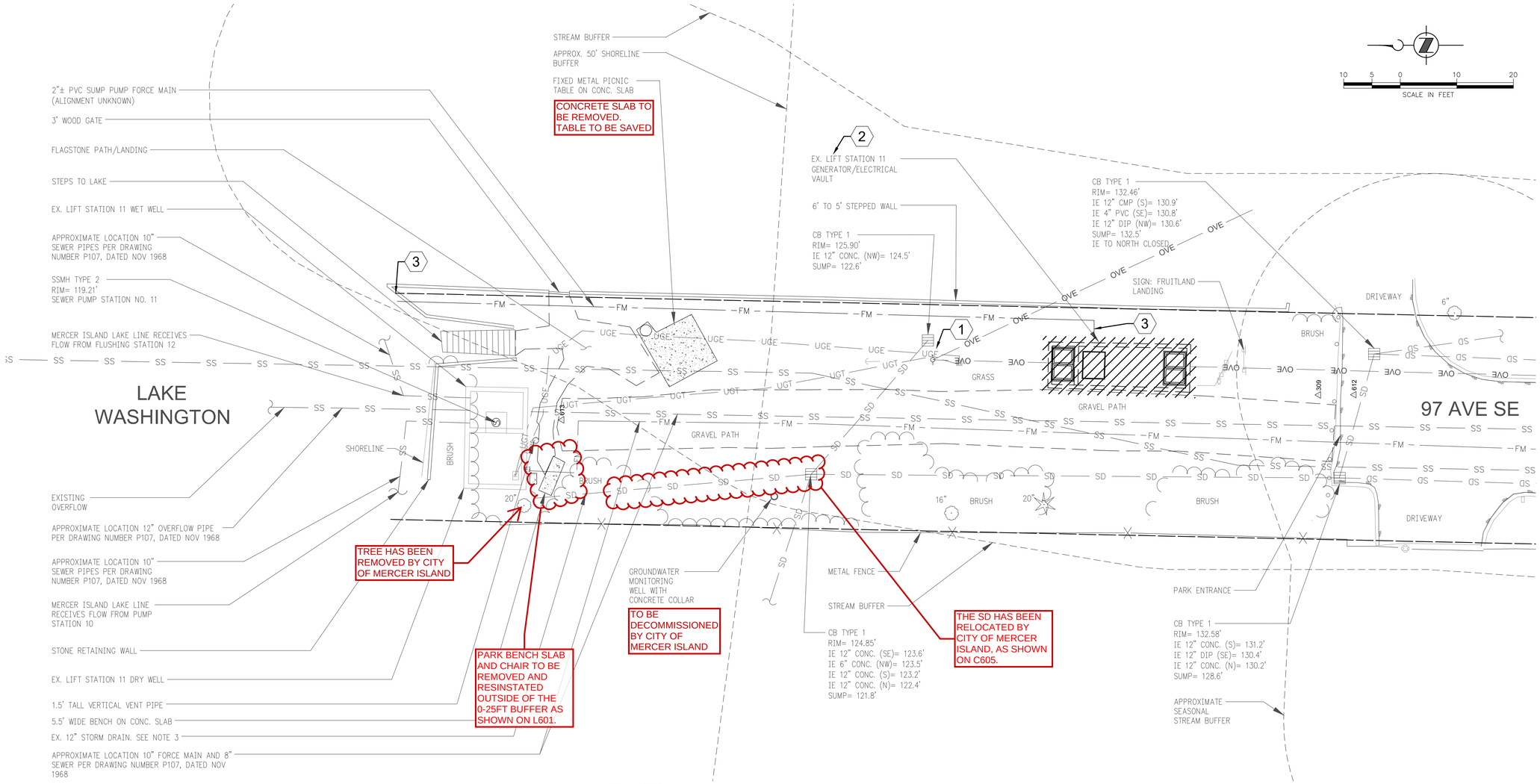
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 DEMOLITION SECTIONS

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	D602
SHT NO / TOTAL	359 / 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\LS111E00306E13-LS111-D602.dwg
PLOT DATE: 4/26/2019 10:44 AM
PLOTTED BY: Danielson, Janet



NOTES:

1. NOT ALL EXISTING UTILITIES SHOWN.
2. EXISTING SITE CONDITIONS SHOWN PER BASE MAP PROVIDED BY KING COUNTY/JACOBS TO CITY AND CHS ENGINEERS ON FEB, 18 2019.
3. LOCATION OF EXISTING 12" CONCRETE SD AS DETERMINED BY CITY OPERATIONS CREW FEB 27, 2019, DEPTH OF COVER=16"±.

KEY NOTES:

1. COORDINATE WITH PROJECT REPRESENTATIVE TO HAVE PROVIDERS DISCONNECT EX. POWER AND COMMUNICATION SERVICE TO LIFT STATION, NO SOONER THAN TEN BUSINESS DAYS FOLLOWING TESTING, COMMISSIONING AND STARTUP OF MODIFIED LIFT STATION 11. REMOVE ELECTRICAL METER BASE, DISCONNECT, EQUIPMENT POST AND MOUNTING BOARD, CONDUITS, CONDUCTORS AND HARDWARE, ALL TO 24-INCHES BELOW GRADE. CAP CONDUITS BELOW GRADE AND BACKFILL VOIDS WITH TOPSOIL.
2. REMOVE EX. STANDBY POWER FACILITY PER DETAILS, DRAWING NO. D604. BACKFILL VOIDS TO 24-INCHES BELOW GROUND ELEVATION WITH GRAVEL BORROW PER WSDOT STANDARD SPECIFICATIONS 9-03.14(1), COMPACTED PER WSDOT STANDARD SPECIFICATIONS 2-03.3(14)C. BACKFILL TO GROUND LEVEL WITH TOPSOIL COMPACTED TO 85% MAXIMUM DRY DENSITY. COMPLETE SURFACE RESTORATION AND LANDSCAPING PER DRAWING NO. L601 AND L602.
3. AT SHORELINE, CUT EX. 2" +/- PVC FORCE MAIN AS CLOSE TO ROCKERY AS FEASIBLE AND CAP. AT GENERATOR VAULT, CAP PIPE OUTSIDE LIMITS OF VAULT.

RODNEY C. LANGER JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER

CHS ENGINEERS, LLC
12507 NE BEL RED RD STE 101
BELLEVUE, WA 98005
(425) 637-3693
chsengineers.com
801903

ROBERT J. CASNE STATE OF WASHINGTON 12218 REGISTERED PROFESSIONAL ENGINEER

RJC ENGINEERING, PLLC
437 TILLICUM WAY
CAMANO ISLAND, WA 98282
(425) 941-6005
rjcasne@wavecable.com

NOTE TO REVIEWER:

KEY NOTE 2 TO BE COORDINATED WITH THE EARTHWORKS SPECIFICATION, AS NEEDED, AFTER 90% REVIEW.

FOR REFERENCE ONLY

CALL TWO BUSINESS DAYS BEFORE YOU DIG 811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN:	CHS ENGINEERS, LLC
PROJECT ENGINEER:	J. CHAE
DESIGN APPROVAL:	R. BROWNE
PROJECT ACCEPTANCE:	S. YILDIZ
SCALE:	1"=10'
REFERENCE	0 1"
FACILITY NUMBER:	N/A
CONTRACT NO:	C01339C20

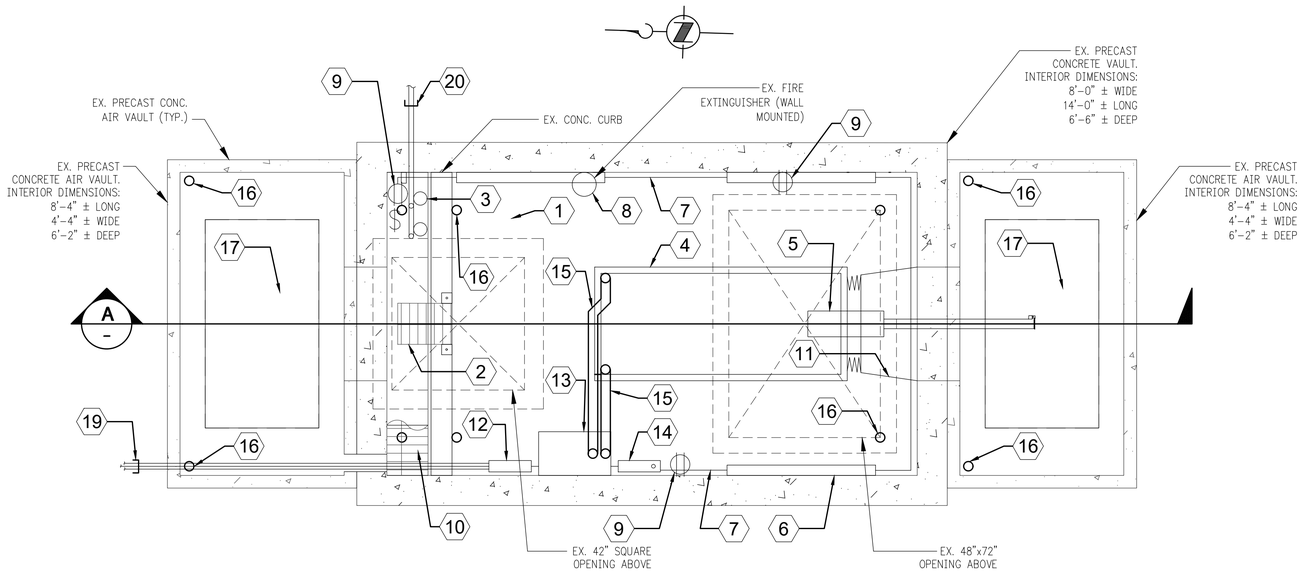
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 GENERATOR DEMOLITION

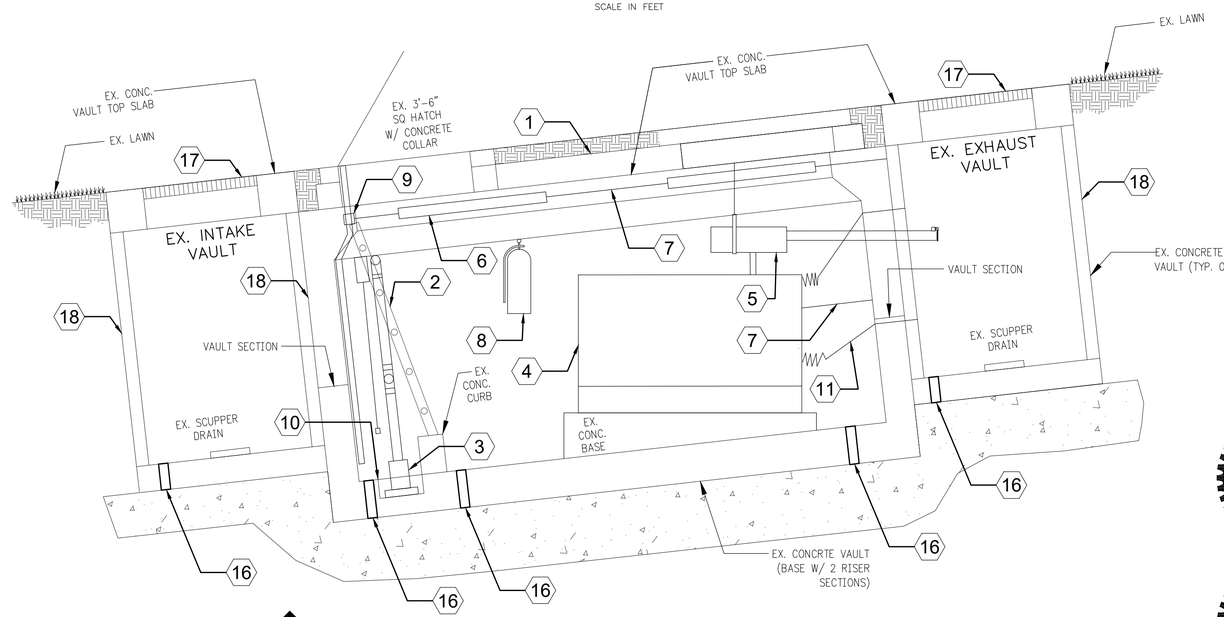
DCN:	
DATE:	03/9/2020
PROJECT FILE NO:	
DRAWING NO:	D603
SHT NO / TOTAL	360 / 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: K:\80-Misc Mun\801903 - Mercer Island LS #11 Generator\CAD\801903 - BASE - Jacobs TB.dwg
PLOT DATE: 4/22/2019 2:36 PM
PLOTTED BY: Scott Sticherbinine



PLAN - LS #11 EXISTING GENERATOR VAULT

SCALE IN FEET



SECTION - LS #11 EXISTING GENERATOR VAULT

SCALE IN FEET

KEY NOTES:

1. REMOVE EX. TOP SLAB INCLUDING REMOVABLE PANEL AND ACCESS HATCH AND COLLAR. SLAB MAY BE BROKEN INTO SMALLER SECTIONS TO FACILITATE REMOVAL FROM VAULT OR SITE.
2. REMOVE EX. LADDER.
3. REMOVE AND SALVAGE TWO EX. SUMP PUMPS, ASSOCIATED PIPING AND APPURTENANCES TO CITY MAINTENANCE SHOP AT 9601 SE 36TH ST. MERCER ISLAND, WA WITHIN ONE WEEK OF REMOVAL.
4. DRAIN ALL COOLANT, OIL AND FUEL. RECYCLE, OR DISPOSE ALL FUEL AND FLUIDS TO THE APPROPRIATE LOCATIONS. REMOVE BATTERIES AND BATTERY CHARGER, AND ALL GENERATOR APPURTENANCES AND HARDWARE. SALVAGE EX. GENERATOR WITH FUEL TANK TO CITY MAINTENANCE SHOP WITHIN ONE WEEK OF REMOVAL. COVER EQUIPMENT UNTIL DELIVERED.
5. REMOVE EX. MUFFLER, EXHAUST PIPE, AND SUPPORTS. SALVAGE MUFFLER TO CITY MAINTENANCE SHOP WITHIN ONE WEEK OF REMOVAL.
6. REMOVE EX. LIGHTING (TYP OF THREE).
7. REMOVE EX. POWER CONDUIT (TYP).
8. REMOVE EX. FIRE EXTINGUISHER.
9. REMOVE EX. LIGHT SWITCH AND RECEPTACLE (TYP).
10. REMOVE EX SUMP GRATING.
11. REMOVE EX. GENERATOR AIR DUCT.
12. REMOVE EX. MAIN BREAKER BOX.
13. REMOVE EX. AUTOMATIC TRANSFER SWITCH (ATS).
14. REMOVE EX. POWER PANEL.
15. REMOVE EX. CONDUIT AND WIRE FROM GENERATOR TO ATS.
16. CORE DRILL TEN HOLES THROUGH VAULT FLOOR (TYP). BORE HOLES SHALL BE FULL FLOOR DEPTH AND A MINIMUM OF THREE INCHES IN DIAMETER. FILL WITH CRUSHED SURFACING TOP COURSE.
17. REMOVE EX. INLET AND OUTLET VAULT GRATED HATCHES AND COLLARS.
18. DEMOLISH EXISTING GENERATOR, INTAKE, AND EXHAUST VAULTS TO A MINIMUM OF FOUR FEET BELOW GRADE. CONTRACTOR MAY CHOOSE TO REMOVE FULL TOP HALF SECTION OF VAULT. BACKFILL GENERATOR VAULT, INLET, AND EXHAUST VAULT PER FLAG NOTE 2 - SHEET D603.
19. CAP EXISTING CONDUITS OUTSIDE LIMITS OF VAULT.
20. SEE FLAG NOTE 3 - SHEET D603.

CHS ENGINEERS, LLC
12507 NE BEL RED RD STE 101
BELLEVUE, WA 98005
(425) 637-3693
chsengineers.com
801903

RODNEY C. LANGERT JR. STATE OF WASHINGTON 30046 REGISTERED PROFESSIONAL ENGINEER

RJC ENGINEERING, PLLC
437 TILLICUM WAY
CAMANO ISLAND, WA 98282
(425) 941-6005
rjcasne@wavecable.com

ROBERT J. CASNE STATE OF WASHINGTON 12218 REGISTERED PROFESSIONAL ENGINEER

FOR REFERENCE ONLY

CALL TWO BUSINESS DAYS BEFORE YOU DIG 811

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: CHS ENGINEERS, LLC	SCALE: 1"=10'
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

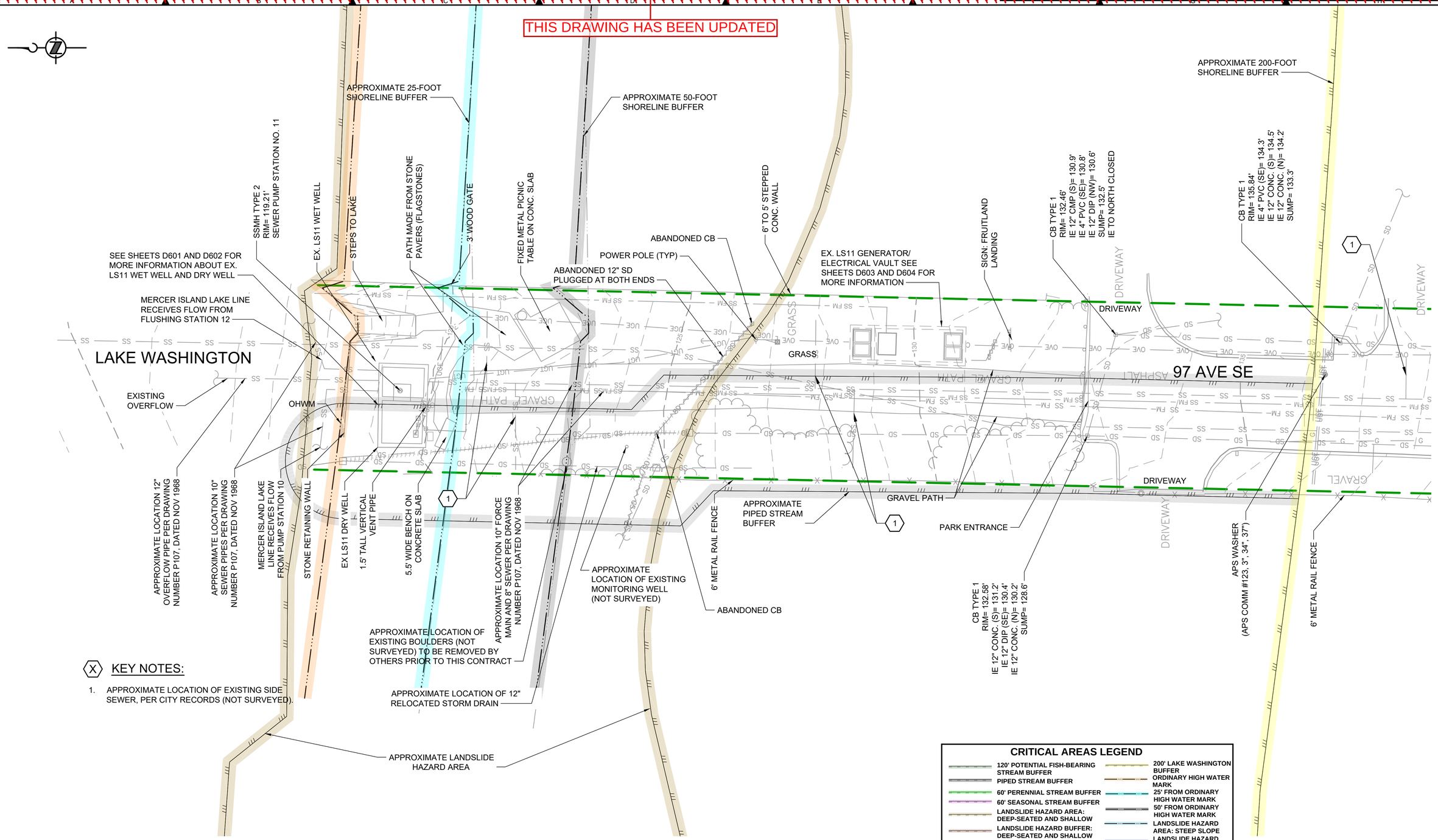
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 GENERATOR DEMOLITION

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	D604
SHT NO / TOTAL	361 / 393
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:K:\80-Misc Muni\801903 - Mercer Island LS #11 Generator\CAD\801903 - BASE - Jacobs TB.dwg
PLOT DATE: 4/22/2019 2:37 PM
PLOTTED BY: Scott Stcherbinine

THIS DRAWING HAS BEEN UPDATED



KEY NOTES:

1. APPROXIMATE LOCATION OF EXISTING SIDE SEWER, PER CITY RECORDS (NOT SURVEYED).

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 10 20 30
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

King County

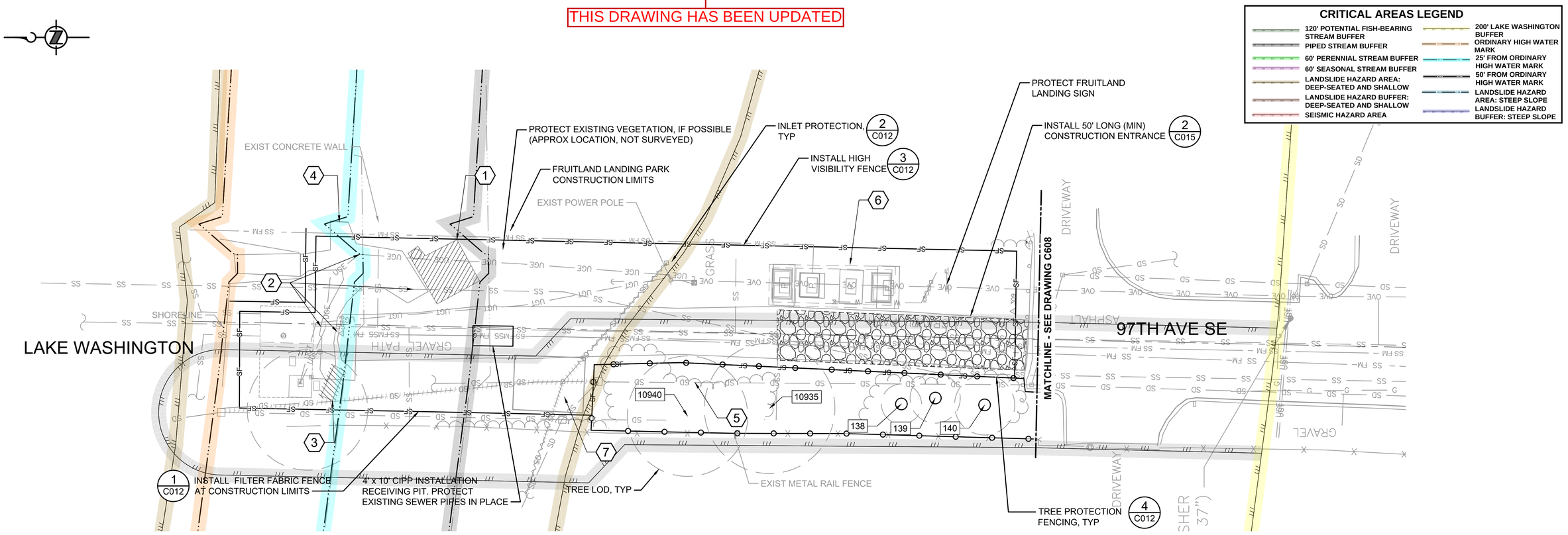
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 EXISTING SITE PLAN

DCN:	
DATE:	03/9/2020
PROJECT FILE NO:	20-1116800
DRAWING NO:	C601
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\LS11\E003006E13-LS11-C601.dwg
PLOT DATE: 3/4/2020 1:09 PM
PLOTTED BY: Brian Chan

THIS DRAWING HAS BEEN UPDATED



NOTES:

1. FRUITLAND LANDING PARK TO BE CLOSED FOR THE DURATION OF CONSTRUCTION.
2. FOR TESC GENERAL NOTES, SEE DRAWING C011.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND IMPLEMENTING AN APPROPRIATE PLAN FOR EXCAVATIONS. PLAN SHALL BE IN ACCORDANCE WITH APPLICABLE GEOTECHNICAL RECOMMENDATIONS FOR THE SITE. CONTRACTOR SHALL DISCHARGE PUMPED GROUNDWATER IN SUCH A MANNER THAT ALL SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS. ALL DEWATERING EFFLUENT SHALL BE DISCHARGED WITHIN AN EXISTING NATURAL DRAINAGE COURSE OR TO AN EXISTING STORM DRAIN (OR POTENTIALLY THE NEW WET WELL) AND SHALL MEET CURRENT WATER QUALITY STANDARDS FOR SAID DISCHARGES. REFER TO DEWATERING SPECIFICATION. CONTRACTOR SHALL APPLY FOR AND OBTAIN ANY ADDITIONAL REQUIRED PERMIT(S) TO PERFORM THIS WORK.
4. ALL EXCAVATION WORK SHALL BE DONE IN SUCH A MANNER AS TO NOT IMPACT PROPERTY AND STRUCTURES OUTSIDE THE PARK PROPERTY OR RIGHT-OF-WAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY SHORING THAT MAY BE REQUIRED FOR THE EXCAVATION. CONTRACTOR SHALL SUBMIT NECESSARY PLANS AND CALCULATIONS COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL SITE SAFETY, INCLUDING PROPER EXCAVATION AND SHORING METHODS, AND PROTECTION OF ADJACENT PROPERTIES. EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH APPLICABLE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT FOR THE SITE.
5. CONTRACTOR SHALL PROVIDE ALL DEWATERING ACTIVITIES ASSOCIATED WITH REMOVING ANY ADDITIONAL WATER WHICH ENTERS EXCAVATIONS THROUGH AND/OR RESULTING FROM THE EXISTING FORCE MAIN REHABILITATION, INSTALLATION OF THE NEW FORCE MAIN, AND TRENCHES UPSTREAM OF THE EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING WATER AND LIMITING DISCHARGE TO DOWNSTREAM EXCAVATIONS.
6. SEE SHEET C608 AND 609 FOR ADDITIONAL TREES TO PROTECT.
7. SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
8. TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.

(X) KEY NOTES:

1. CITY WILL TEMPORARILY REMOVE EXISTING PICNIC TABLE TO A SECURE STORAGE AREA PRIOR TO CONSTRUCTION. REMOVE AND RECYCLE EXISTING CONCRETE SLAB. CITY TO REINSTALL TABLE AFTER LIFT STATION IMPROVEMENTS.
2. REMOVE, PROTECT, AND DELIVER TO CITY EXISTING FLAGSTONES BETWEEN BENCH SLAB AND PICNIC TABLE SLAB.
3. CITY WILL TEMPORARILY REMOVE EXISTING PARK BENCH TO A SECURE STORAGE AREA PRIOR TO CONSTRUCTION. DEMOLISH EXISTING CONCRETE SLAB.
4. CONTRACTOR SHALL LOCK THE GATE FOR CONTRACT DURATION.
5. VEGETATION EXTENT (NOT TREES) BEYOND THE TREE PROTECTION FENCING EXTENT SHOWN IS TO BE TRIMMED PRIOR TO FENCING PLACEMENT.
6. AFTER EXISTING GENERATOR SET NO LONGER NEEDED, TEMPORARY SEDIMENTATION TANK COULD POTENTIALLY BE PLACED ABOVE THE VAULTS IN THIS LOCATION.
7. PROTECT CONCRETE SLAB AND GENERATOR SET (TO BE INSTALLED BY CITY PRIOR TO THIS CONTRACT).

TREE INVENTORY TABLE:

TREE ID	SCIENTIFIC NAME	COMMON NAME	LOD (ft.)	DBH (in.)	DISPOSITION	EXCEPTIONAL
138	ACER PALMATUM	JAPANESE MAPLE	4	6.7	PROTECT	NO
139	PRUNUS EMARGINATA	BITTER CHERRY	5	8.2	PROTECT	NO
140	ACER PALMATUM	JAPANESE MAPLE	6	9.5	PROTECT	NO
10935	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	13	19.3	PROTECT	NO
10940	KOELREUTERIA PANICULATA	GOLDEN RAINTREE	12	17.3	PROTECT	NO

SCALE IN FEET: 0 10 20 30

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

King County

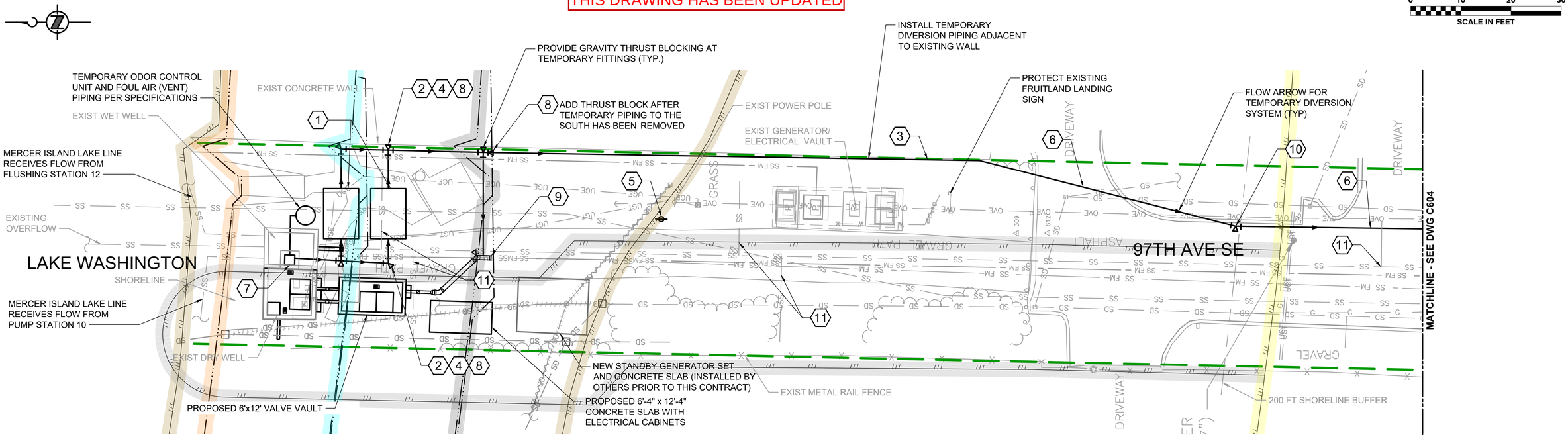
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11
TESC PLAN AND NOTES

DCN:
DATE: 03/9/2020
PROJECT FILE NO: 20-1116800
DRAWING NO: C602
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\LS11\E00306E13-LS11-C602.dwg
PLOT DATE: 3/4/2020 1:18 PM
PLOTTED BY: Javier Jeres

THIS DRAWING HAS BEEN UPDATED



NOTES:

1. FRUITLAND LANDING PARK TO BE CLOSED FOR THE DURATION OF CONSTRUCTION.
2. COORDINATE WORK AND SEQUENCING WITH LS11 FORCE MAIN REHABILITATION AND EXTENSION.
3. CONTRACTOR SHALL SCHEDULE A MEETING WITH PROJECT REPRESENTATIVE TO DISCUSS PROPOSED DIVERSION PUMPING PLAN PRIOR TO PREPARING THE DIVERSION SYSTEM SUBMITTAL.
4. IN AN EFFORT TO MINIMIZE THE LENGTH OF TIME THAT THE LIFT STATION IS OFF LINE AND OPERATING ON DIVERSION PUMPING, ALL OF THE NEW MATERIALS AND EQUIPMENT MUST BE ON SITE, OR HAVE A CONFIRMED DELIVERY DATE, PRIOR TO INITIATING THE DIVERSION PUMPING OPERATION.
5. ALL OF THE CONNECTIONS TO THE EXISTING SYSTEM INVOLVE POTENTIAL EXPOSURE TO RAW SEWAGE. CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS ASSOCIATED WITH WORKING AROUND RAW SEWAGE, SEWAGE GAS, AND COMPLYING WITH ALL ASSOCIATED SAFETY REGULATIONS.
6. EXISTING GRAVITY SEWER MAINS SHALL BE PROTECTED AND KEPT IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THIS PLAN.
7. CONTRACTOR SHALL PROVIDE A LEVEL CONTROL SYSTEM, INTEGRAL TO EACH TEMPORARY DIVERSION PUMP, WITH LEVEL SETTINGS SUBJECT TO REVIEW BY PROJECT REPRESENTATIVE. CONTRACTOR SHALL PROVIDE SUBMITTAL AND OBTAIN ACCEPTANCE FROM PROJECT REPRESENTATIVE PRIOR TO INSTALLATION OF DIVERSION PUMPING SYSTEM.
8. DURING DIVERSION OPERATIONS, CONTRACTOR SHALL PROVIDE TWO ABOVE-GRADE SILENCED SELF-PRIMING PUMPS, EACH CAPABLE OF PUMPING 540 GPM @ 35' OF TDH. THE PRIMARY PUMP SHALL BE ELECTRIC-DRIVE AND CONNECTED TO THE TEMPORARY POWER FOR THE SITE, THE OTHER SHALL BE CRITICALLY SILENCED DIESEL-DRIVE PUMP AS BACKUP. CONTRACTOR SHALL PROVIDE INTEGRATED LEVEL FLOAT SYSTEM TO CONTROL EACH PUMP, AND AN AUTO-DIALER. THE LEAD PUMP DRIVEN BY THE TEMP POWER SHALL PUMP NORMAL FLOWS. THE BACKUP DIESEL DRIVEN PUMP SHALL AUTOMATICALLY ACTIVATE IN THE EVENT THAT THE LEAD PUMP FAILS OR THE SEWAGE LEVEL RISES TO THE ALARM LEVEL. CONTRACTOR SHALL PROVIDE SUCTION PIPING, AND DISCHARGE PIPING MANIFOLDED TOGETHER FOR A SINGLE DISCHARGE CONNECTED TO THE DIVERSION PUMPING CONNECTION, THROUGHOUT THE TEMPORARY DIVERSION OPERATIONS, WHICH ARE ANTICIPATED TO LAST SEVERAL MONTHS.

DIVERSION SYSTEM CONSTRUCTION SEQUENCE:

NOTE: THIS IS A POSSIBLE SEQUENCE. FINAL SEQUENCE SHALL BE DEVELOPED BY CONTRACTOR, AND IS SUBJECT TO REVIEW BY PROJECT REPRESENTATIVE.

1. INSTALL TEMP. PUMPS, CONTROLS, POWER, VALVES, SUCTION AND DISCHARGE PIPING AND TEMPORARY ODOR CONTROL SYSTEM. CONNECT DISCHARGE PIPING TO EXISTING CITY SSMH R208G-26. CONTRACTOR SHALL COORDINATE WITH PSE AND BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER DURING CONSTRUCTION, FROM EXISTING POWER POLE. PROVIDE PUMPING EQUIPMENT COMPATIBLE WITH AVAILABLE POWER VOLTAGE, ETC. FROM PSE.
2. TEST TEMPORARY DIVERSION SYSTEM. OBTAIN AUTHORIZATION FROM PROJECT REPRESENTATIVE THAT DIVERSION SYSTEM IS ACCEPTABLE BEFORE REMOVING EXISTING STATION COMPONENTS AND AFTER 10 DAYS OF CONTINUOUS SUCCESSFUL DIVERSION OPERATION.
3. REHABILITATE EXISTING FORCE MAIN AND COMPLETE PRESSURE TESTING.
4. REROUTE DIVERSION PUMPS TO CONNECT TO UPSTREAM END OF REHABILITATED FORCE MAIN. REMOVE ALL TEMPORARY DIVERSION PIPING SOUTH OF CONNECTION TO REHABILITATED FORCE MAIN. SEE SUGGESTED CONSTRUCTION SEQUENCING ON C606 AND C607 FOR ADDITIONAL INFORMATION.
5. CLOSE ISOLATION VALVE ON PUMP SUCTION LINE IN DRY WELL. COORDINATE WITH PROJECT REPRESENTATIVE TO TEMPORARILY DEACTIVATE UPSTREAM FLUSHING STATIONS. PUMP EXIST WET WELL AS LOW AS POSSIBLE USING DIVERSION PUMP (SUPPLEMENTED BY VACTOR TRUCK AS NEEDED) AND INSTALL TEMPORARY DAM (SANDBAGS, ETC.) TO ACCESS SUCTION PIPING. INSTALL MECHANICAL PLUGS IN SUCTION LINES IN EXIST WET WELL.
6. DEMO EXIST DRY WELL EQUIPMENT, CLEAN AND SANDBLAST INTERIOR. REPLACE EXIST DRY WELL LID. REPAIR INTERIOR, ADD FILLETS AND COATINGS. CONVERT EXIST DRY WELL TO NEW WET WELL AND INSTALL PUMPS, LEVEL CONTROLS, AND ASSOCIATED APPURTENANCES.
7. TEST ALL FACILITIES WITH POTABLE WATER. SEWAGE WILL NOT BE ALLOWED TO FLOW INTO NEW WET WELL UNTIL ALL SYSTEMS HAVE BEEN THOROUGHLY TESTED AND ACCEPTED BY THE PROJECT REPRESENTATIVE.
8. MOVE DIVERSION PUMP SUCTION PIPING TO NEW WET WELL. INSTALL TEMPORARY DIVERSION AND GRAVITY PIPING FOR EACH INCOMING PIPE IN EXIST WET WELL, AND MANIFOLD TOGETHER TO DISCHARGE INTO NEW WET WELL. ALTERNATIVELY, PUMP THROUGH COMPLETED NEW WET WELL, VALVE VAULT AND PERMANENT FORCE MAIN IF APPROVED FOR USE PRIOR TO CONVERTING EXIST WET WELL TO MH.
9. CLEAN, WATER BLAST, AND REPAIR EXISTING WET WELL PER D601. FILL AND CHANNEL EXIST WET WELL AND INSTALL COATINGS AND NEW ACCESS LID. COMPLETE CONVERSION TO MH PER M601 AND M602.
10. COORDINATE WITH PROJECT REPRESENTATIVE TO NOTIFY RESIDENTS OF SHUT-DOWN (SEE SHEET C604). DIVERT SEWAGE IN 8" GRAVITY AND INSTALL DROP CONNECTION IN EX. WET WELL.
11. INSTALL ALL OTHER LIFT STATION IMPROVEMENTS.
12. BEFORE BRINGING NEW FACILITIES ON LINE, OBTAIN PERMISSION FROM PROJECT REPRESENTATIVE.
13. TEST NEW FACILITIES AND OBTAIN WRITTEN AUTHORIZATION FROM PROJECT REPRESENTATIVE THAT NEW FACILITIES ARE ACCEPTABLE FOR PERMANENT SERVICE AFTER 10 DAYS OF CONTINUOUS SUCCESSFUL OPERATION.
14. REMOVE/ ABANDON TEMPORARY FACILITIES NOT ASSOCIATED WITH PERMANENT STATION.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

(X) KEY NOTES:

1. REDUNDANT TEMPORARY DIVERSION PUMPS PLACED ON 4" THICK LAYER OF COMPACTED CSBC.
2. MANIFOLD SUCTION AND DISCHARGE PIPING.
3. 8" MINIMUM ID HDPE DR17 TEMPORARY DIVERSION PIPING. PIPE SHALL BE LAID ON SURFACE UNLESS OTHERWISE CALLED OUT.
4. IF ANY PORTION OF ABOVE GROUND DIVERSION PIPING WILL BE OPERATED IN WINTER MONTHS, PROVIDE INSULATION AND HEAT TRACING TO PREVENT FREEZING.
5. PROVIDE TEMPORARY CONSTRUCTION POWER SERVICE.
6. INSTALL TEMPORARY RAMPS FOR BYPASS PIPING AT DRIVEWAYS PER SPECIFICATIONS, MINIMUM 12' WIDE UNLESS OTHERWISE APPROVED BY PROJECT REPRESENTATIVE.
7. 6" MINIMUM ID HDPE SUCTION PIPE TO BE INSTALLED USING EXISTING WET WELL ACCESS. REMOVE AND STORE EXISTING GAS TIGHT MH COVER. CONSTRUCT LID THAT WILL SEAL ON EXISTING MH FRAME TO MANAGE SEWER GAS AND ALLOW SUCTION PIPING TO BE INSTALLED IN EXIST WET WELL.
8. WHERE THRUST RESTRAINTS SHOWN FOR ABOVE-GRADE TEMPORARY PIPING, STRAP PIPING (WIRE OR CABLE THAT MIGHT CUT INTO THE PIPE IS NOT ACCEPTABLE) TO ECOLOGY BLOCKS TO RESTRAIN. (TYP.)
9. AFTER FORCE MAIN REHABILITATION, REROUTE DIVERTED SEWAGE TO UPSTREAM END OF REHABILITATED FORCE MAIN, OR ALTERNATIVELY BY CONNECTING TO DIVERSION PUMPING PORT IN VALVE VAULT WHEN AVAILABLE. ROUTE EAST-WEST SECTION OF DIVERSION PIPING BELOW GRADE (BY ROTATING TEE AND BEND AT CONNECTION POINTS) AND PROTECT PIPING AS NEEDED FOR SITE ACCESS. PROVIDE FLANGED HDPE CONNECTION WITH BACKUP RING TO DI BEND.
10. ANCHOR FORCE MAIN AS NEEDED. PROTECT EXISTING IRRIGATION SYSTEM. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
11. APPROX. LOCATION OF EXISTING SIDE SEWER, PER CITY RECORDS (NOT SURVEYED).

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

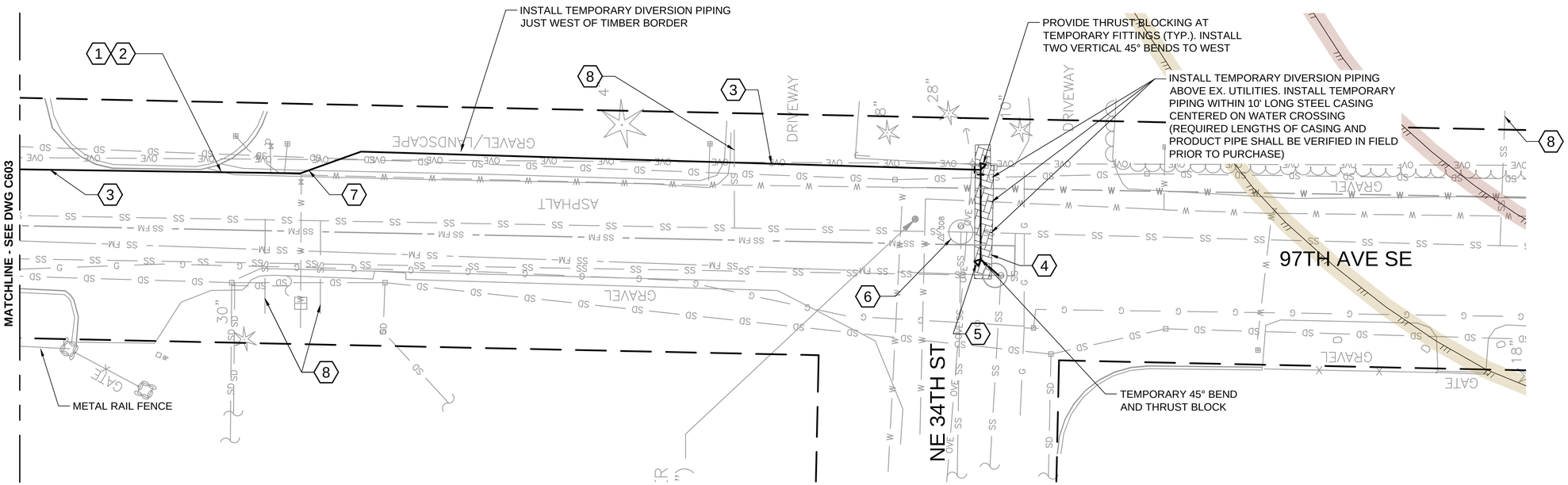
King County

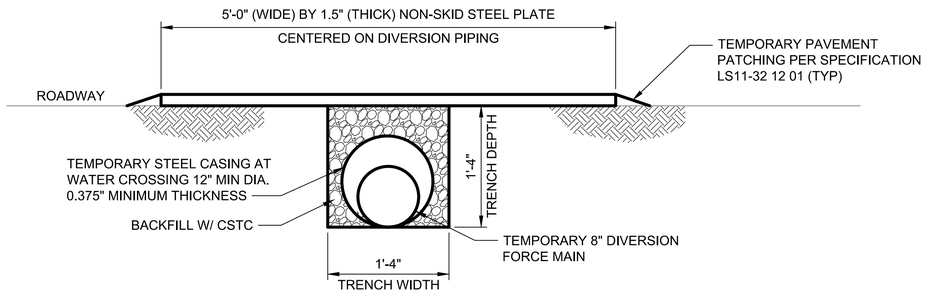
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 CONSTRUCTION STAGING AND DIVERSION PUMPING PLAN 1 of 2

DCN:	
DATE:	03/9/2020
PROJECT FILE NO:	20-1116800
DRAWING NO:	C603
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\LS11\E00306E13-LS11-C603.dwg
PLOT DATE: 3/4/2020 1:19 PM
PLOTTED BY: Alvin Isaac





TEMOPRARY DIVERSION PIPE TRENCH

DETAIL 1 / SCALE: NTS

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

KEY NOTES:

1. 8" MINIMUM ID HDPE TEMPORARY DIVERSION PIPING. PIPE TO BE LAID ON SURFACE UNLESS OTHERWISE CALLED OUT.
2. IF ANY PORTION OF ABOVE GROUND DIVERSION PIPING WILL BE OPERATED IN WINTER MONTHS, PROVIDE INSULATION AND HEAT TRACING SUITABLE FOR HDPE PIPE TO PREVENT FREEZING.
3. INSTALL TEMP. RAMPS FOR BYPASS PIPING AT DRIVEWAYS PER SPECIFICATIONS, MINIMUM 10' WIDE.
4. INSTALL TEMPORARY DIVERSION PIPE BELOW GRADE WHEN MAKING CONNECTION TO EXISTING MH AND PROVIDE STEEL PLATES PER DETAIL 1 THIS SHEET. CONNECT TO EX. SSMH R208G-26" BELOW GRADE (SEE SHEET C607), CORE DRILL MH BELOW CONE. AFTER DIVERSION WORK IS COMPLETE, REMOVE PIPE, REPAIR MH, AND PROVIDE PERMANENT TRENCH PATCH.
5. WHERE THRUST RESTRAINTS SHOWN FOR ABOVE-GRADE TEMPORARY PIPING, STRAP PIPING TO ECOLOGY BLOCKS TO RESTRAIN. (TYP.)
6. PRIOR TO INSTALLATION OF NEW DROP CONNECTION IN EXISTING LS11 WET WELL, PROVIDE SHUT DOWN NOTICE TO DOWNSTREAM PROPERTY OWNERS, PER SPECIFICATIONS. INSTALL TEMPORARY DIVERSION PUMPING TO ROUTE SEWAGE TO ADJACENT MH TO SOUTHWEST. INSTALL MECHANICAL PLUG IN 8" SEWER MAIN TO NORTH. LIMIT THIS OPERATION TO 8 HOURS IN A SINGLE DAY (TUESDAY, WEDNESDAY, OR THURSDAY ONLY).
7. ANCHOR FORCE MAIN AS NEEDED. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
8. APPROXIMATE LOCATION OF EXISTING SIDE SEWER, PER CITY RECORDS (NOT SURVEYED).

0 10 20 30 SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 CONSTRUCTION STAGING AND DIVERSION PUMPING PLAN 2 of 2

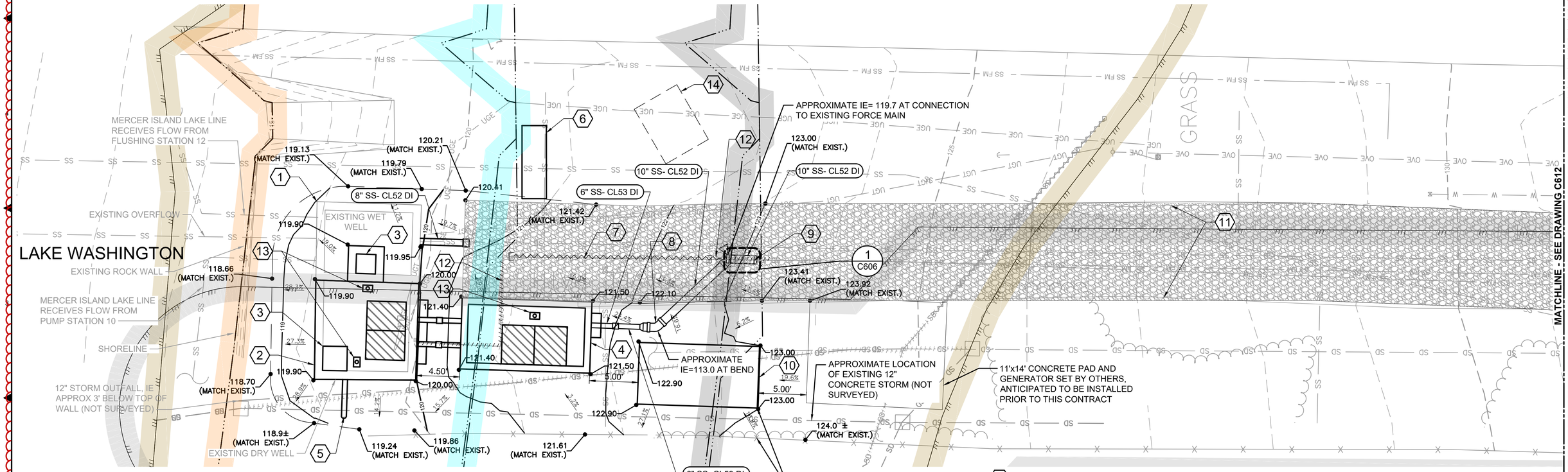
DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C604
SHT NO / TOTAL	---- /
REV NO:	0

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-C604.dwg
PLOT DATE: 8/2/2019 8:02 AM
PLOTTED BY: D'Auria, Isaac

THIS DRAWING HAS BEEN UPDATED

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE



NOTES:

1. NEW FORCE MAIN SHOWN ON THIS DRAWING SHALL BE CERAMIC EPOXY-LINED DI. RESTRAIN ALL BURIED DI PIPE JOINTS AND MJ FITTINGS UNLESS OTHERWISE NOTED.

KEY NOTES:

1. CONVERT EXISTING WET WELL TO MAINTENANCE HOLE (MH), PER SHEETS M601 & M602.
2. CONVERT EXISTING DRY WELL TO NEW WET WELL, INSTALL NEW ACCESS LID AND HATCH, PER SHEETS M602 AND S601.
3. INSTALL ACCESS HATCH.
4. PROPOSED VALVE VAULT, PER SHEETS M601 & M602.
5. INSTALL NEW AIR VENT PER SHEETS M601 & M602.
6. INSTALL NEW CONCRETE SLAB FOR PARK BENCH HERE, MATCH DIMENSIONS OF EX. CONCRETE SLAB.
7. ABANDON-IN-PLACE EXISTING ASBESTOS CEMENT FORCE MAIN AS INDICATED. FILL WITH CDF AND CAP/ PLUG CUT ENDS.
8. 6"x10" REDUCER (FLxFL) AND 10" 45 DEG BEND (FLxMJ). ROTATE BEND AS NEEDED TO MATCH VERTICAL ALIGNMENT AT DOWNSTREAM FORCE MAIN CONNECTION. INSTALL FLXPE SPOOLS IN SIZES SHOWN ON PLANS TO NORTH AND SOUTHEAST OF BEND/REDUCER.
9. CONNECT TO REHABILITATED 10"Ø ASBESTOS CEMENT FORCE MAIN WITH 10" 45 DEG BEND (MJ) WITH THRUST BLOCKING AS SHOWN ON SHEET C606. ROTATE BEND AS NEEDED TO MATCH VERTICAL ALIGNMENT OF FORCE MAIN FROM UPSTREAM VALVE VAULT.
10. CONCRETE SLAB FOR ELECTRICAL/ CONTROL CABINET PER ELECTRICAL DRAWINGS AND SHEET S602.
11. RESTORE 10' WIDTH OF EXISTING GRAVEL FROM PAVEMENT AT PARK ENTRANCE TO NORTHERN END OF ACCESS ROAD WITH TYPE R AGGREGATE PER SPECIFICATIONS.
12. REMOVE EXISTING 10" ASBESTOS CEMENT FORCE MAIN TO CAP.
13. INSTALL FLUSH-MOUNT RETRIEVAL HOIST SLEEVE PER SHEET M601.
14. APPROXIMATE LOCATION FOR REINSTALLATION OF EXISTING PICNIC TABLE (TO BE INSTALLED BY CITY AFTER THIS CONTRACT IS COMPLETE).

0 5 10 15
SCALE IN FEET

MATCHLINE - SEE DRAWING C612

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: E. BRODAHL	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

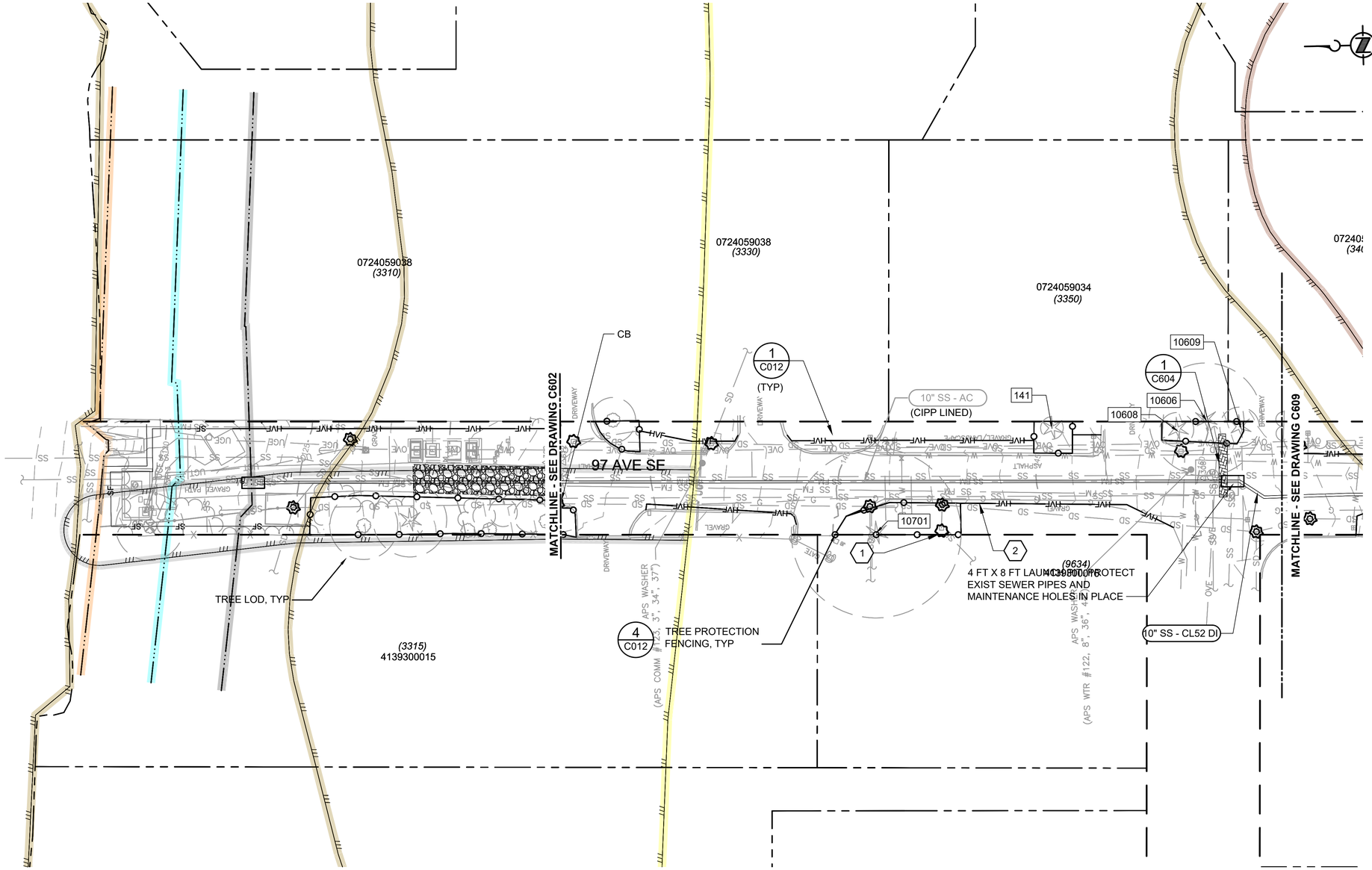
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11
FINAL SITE PLAN

DCN:
DATE: 3/9/2020
20-1116800
DRAWING NO: C605
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3K67200\700CADD\702CIVIL\LS11\E00306E13-LS11-C605.dwg
PLOT DATE: 3/4/2020 1:47 PM
PLOTTED BY: Brodahl, Eric



NOTES:

1. SEE DRAWING C612 FOR STANDARD SITE PREPARATION NOTES AND DETAILS. REFER TO DRAWINGS G004 & G005 FOR MATERIAL SYMBOLS.
2. PROTECT EXISTING TREES EXCEPT WHERE INDICATED TO BE REMOVED.
3. CONTRACTOR SHALL OBTAIN APPROVAL FROM PROJECT REPRESENTATIVE FOR ANY TREE TRIMMING OR REMOVAL OF TREES NOT SHOWN AS BEING REMOVED.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
5. UNLESS OTHERWISE SHOWN, CONSTRUCTION LIMITED TO WITHIN ROW.
6. REMOVE AND STORE EXISTING SIGNS WITHIN CONTRACTOR LIMITS OF DISTURBANCE AS NEEDED.
7. THE PROPOSED FORCE MAIN AND ASSOCIATED STRUCTURE IS SHOWN SCREENED BACK FOR REFERENCE. SEE C610 AND C611 FOR PIPE WORK.
8. USE COIR WATTLE AT DRIVEWAYS AND SILT FENCES AT EXCAVATION FRONTS AS NEEDED.
9. SEE SHEETS C602, C609 FOR ADDITIONAL TREES TO PROTECT.
10. SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
11. TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.

(#) KEY NOTES:

1. STORM DRAIN INLET PROTECTION, TYPICAL. REFER TO DETAIL 2/C012.
2. INSTALL HVF OR TREE PROTECTION FENCING AT EDGE OF PAVEMENT, TYPICAL.

TREE INVENTORY TABLE:

TREE ID	SCIENTIFIC NAME	COMMON NAME	LOD (ft.)	DBH (in.)	DISPOSITION	EXCEPTIONAL
141	TSUGA MERTENSIANA	MOUNTAIN HEMLOCK	4	6.0	PROTECT	NO
10606	CEDRUS DEODARA	DEODAR CEDAR	20	29.9	PROTECT	NO
10608	CEDRUS DEODARA	DEODAR CEDAR	6	9.0	PROTECT	NO
10609	SEQUOIADENDRON GIGANTEUM	WEEPING REDWOOD	7	10.1	PROTECT	NO
10701	THUJA PLICATA	WESTERN REDCEDAR	30	30.0	PROTECT	NO

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

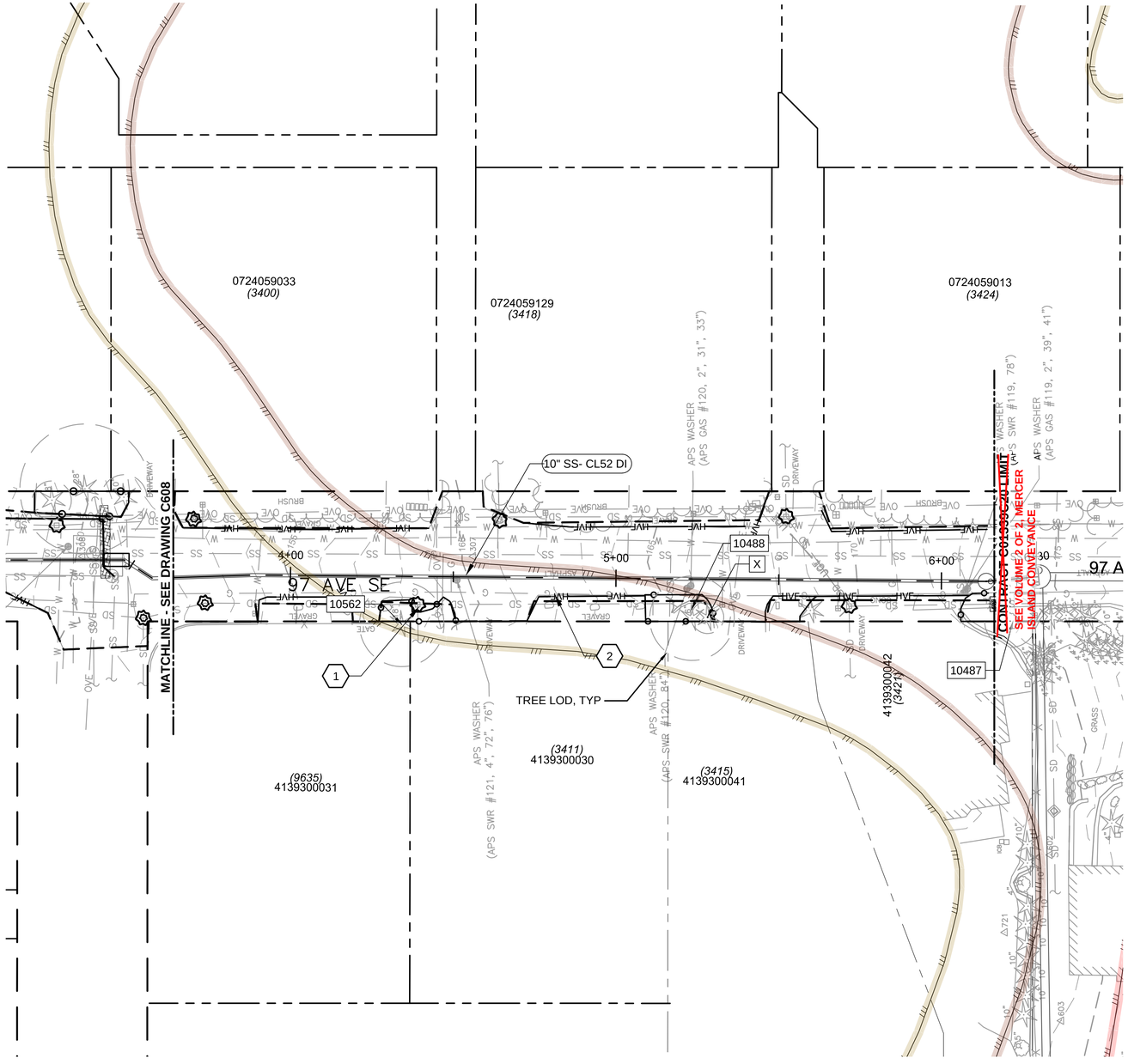
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN SITE PREPARATION STA 0+00 TO STA 3+64

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: C608
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\WJX67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-C608.dwg
PLOT DATE: 9/27/2019 9:44 AM
PLOTTED BY: D'Auria, Isaac



NOTES:

1. SEE DRAWING C612 FOR STANDARD SITE PREPARATION NOTES AND DETAILS. REFER TO DRAWINGS G004 & G005 FOR MATERIAL SYMBOLS.
2. PROTECT EXISTING TREES EXCEPT WHERE INDICATED TO BE REMOVED.
3. CONTRACTOR SHALL OBTAIN APPROVAL FROM PROJECT REPRESENTATIVE FOR ANY TREE TRIMMING OR REMOVAL OF TREES NOT SHOWN AS BEING REMOVED.
4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
5. UNLESS OTHERWISE SHOWN, CONSTRUCTION LIMITED TO WITHIN ROW.
6. REMOVE AND STORE EXISTING SIGNS WITHIN CONTRACTOR LIMITS OF DISTURBANCE AS NEEDED.
7. THE PROPOSED FORCE MAIN AND ASSOCIATED STRUCTURE IS SHOWN SCREENED BACK FOR REFERENCE. SEE C610 AND C611 FOR PIPE WORK.
8. USE COIR WATTLE AT DRIVEWAYS AND SILT FENCES AT EXCAVATION FRONTS AS NEEDED.
9. SEE SHEETS C602, C608 FOR ADDITIONAL TREES TO PROTECT.
10. SEE TREE MANAGEMENT SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS WHEN WORKING WITHIN THE LOD (LIMITS OF DISTURBANCE).
11. TREE HEALTH SHALL BE MONITORED BY THE PROJECT ARBORIST DURING AND AFTER CONSTRUCTION, UNTIL SUBSTANTIAL COMPLETION AS STATED IN THE TREE MANAGEMENT SPECIFICATIONS.

(#) KEY NOTES:

1. STORM DRAIN INLET PROTECTION, TYPICAL. REFER TO DETAIL 2/C012.
2. INSTALL HVF OR TREE PROTECTION FENCING AT EDGE OF PAVEMENT.

TREE INVENTORY TABLE:

TREE ID	SCIENTIFIC NAME	COMMON NAME	LOD (ft.)	DBH (in.)	DISPOSITION	EXCEPTIONAL
10487	PRUNUS SERRULATA	FLOWERING CHERRY	8	11.6	PROTECT	NO
10488	CEDRUS DEODARA	DEODAR CEDAR	13	20.0	PROTECT	NO
10562	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	13	20.2	PROTECT	NO
X	CHAMAECYPARIS LAWSONIANA	PORT ORFORD CEDAR	5	8	PROTECT	NO

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY
SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE
REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE
FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ
CONTRACT NO: C01339C20

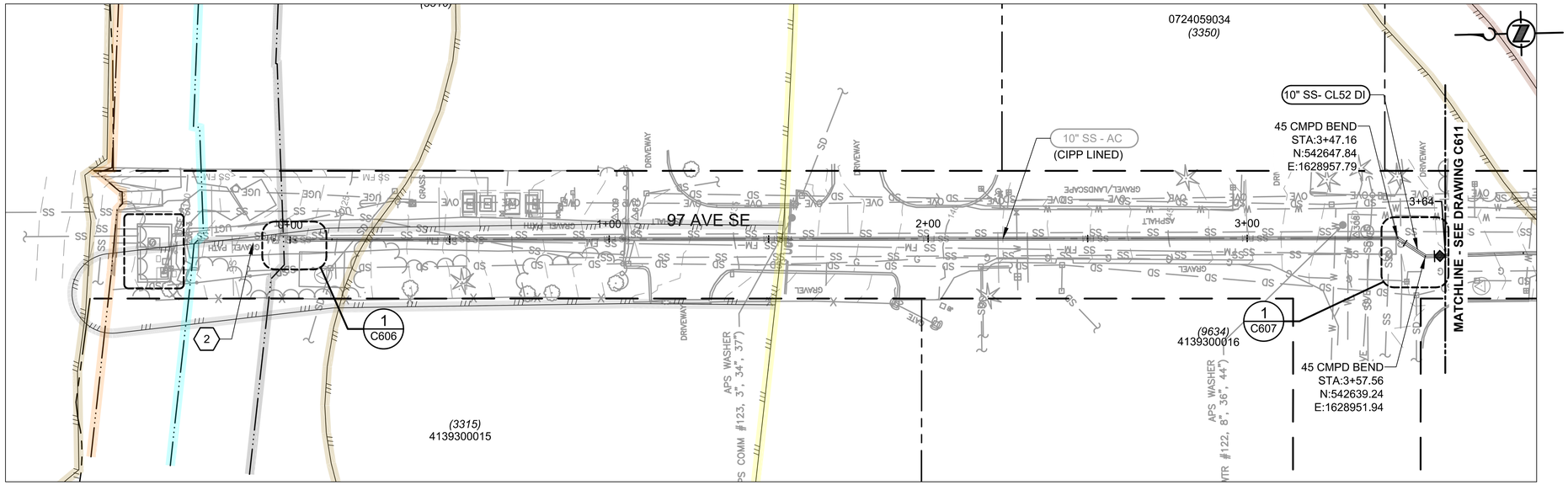
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN SITE PREPARATION STA 3+64 TO STA 6+16

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: C609
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-C609.dwg
PLOT DATE: 8/2/2019 7:57 AM
PLOTTED BY:D'Auria, Isaac



THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

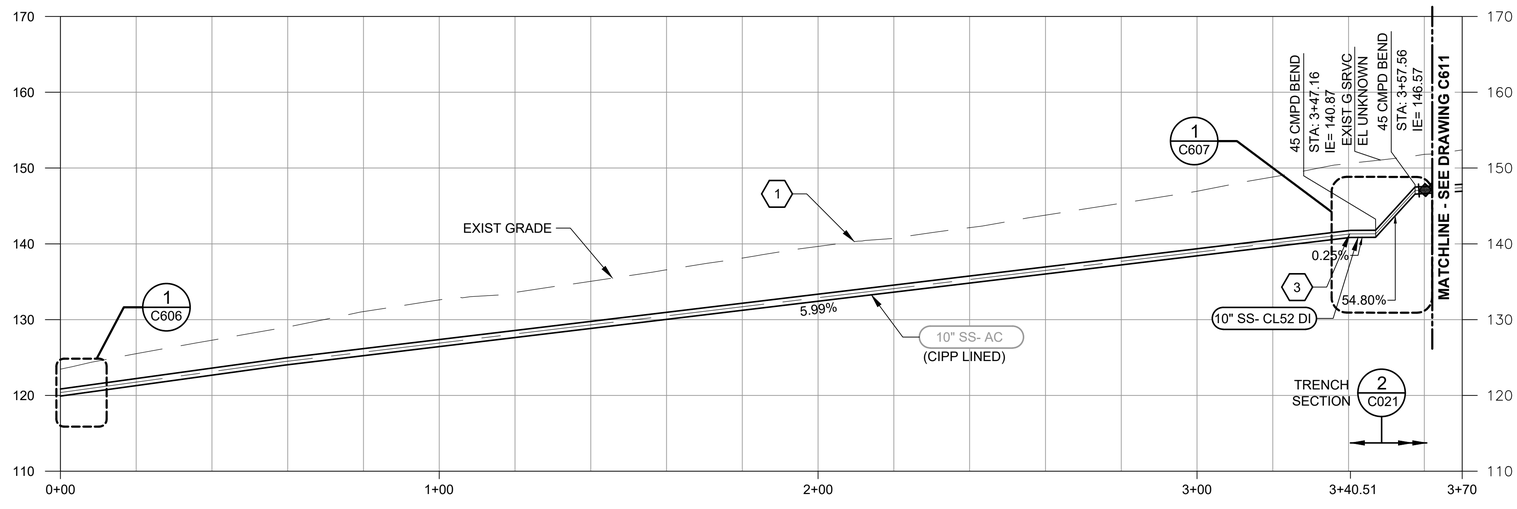
PLAN
SCALE: 1" = 20'

NOTES:

1. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
2. 10-INCH SSFM WILL BE CL 52 DI UNLESS OTHERWISE NOTED. THE PIPELINE SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.
3. THE PROFILE OF THE EXISTING FORCE MAIN IS INFERRED FROM AS-BUILT INFORMATION. THE CONTRACTOR SHALL POTHOLE TO CONFIRM THE INSTALLED LOCATION.
4. FOR TEMPORARY SEWER DIVERSION SYSTEM REFER TO DRAWINGS C603 AND C604.

(#) KEY NOTES:

1. EXISTING UTILITIES CROSSING THE EXISTING 10-INCH SSFM HAVE NOT BEEN SHOWN AS THIS IS A REHABILITATION OF AN EXISTING MAIN AND HAVE NOT BEEN FIELD LOCATED.
2. THE EXISTING AC MAIN IS TO BE ABANDONED IN PLACE AND GROUT FILLED NORTH OF THE NEW PIPING.
3. CONTRACTOR TO SITE VERIFY THE EXISTING 10-INCH AC SSFM AT THE PROPOSED CONNECTION POINT TO CONFIRM THE ELEVATION PRIOR TO PROCURING PIPE MATERIALS AND PROVIDEATION. AS-BUILT INFORMATION REFERENCE TWO DIFFERENT ELEVATIONS. THE DEEPEST PROFILE AND CONNECTION DETAIL HAS BEEN SHOWN.



PROFILE
SCALE: HORIZ 1" = 20'
VERT 1" = 10'

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

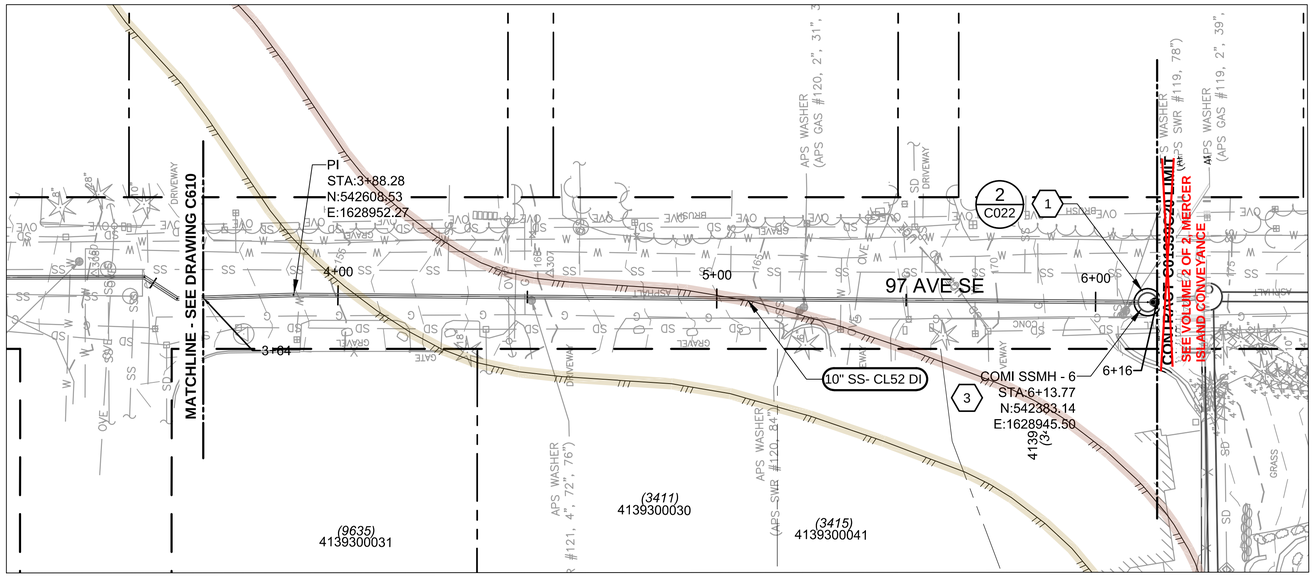
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN PLAN AND PROFILE STA 0+00 TO STA 3+64

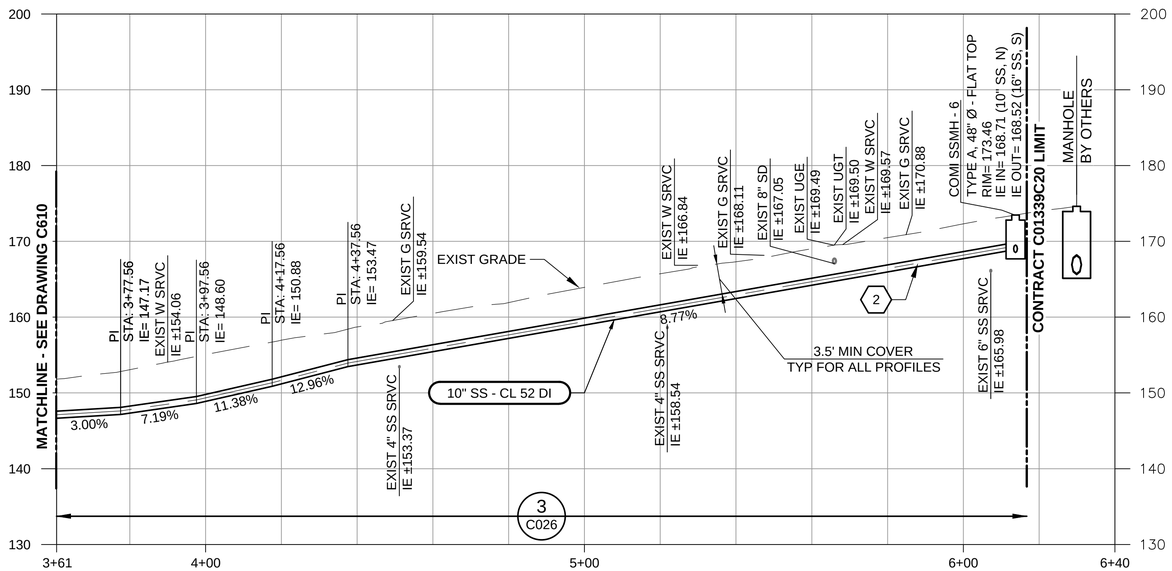
DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C610
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-C610.dwg
PLOT DATE: 9/27/2019 9:16 AM
PLOTTED BY:D'Auria, Isaac



PLAN

SCALE: 1" = 20'



PROFILE

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

NOTES:

1. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ELEVATIONS IN ADVANCE OF WORK.
2. DEFLECT FM AS NECESSARY TO 80% OF MANUFACTURER'S MAXIMUM ALLOWABLE DEFLECTION.
3. 10-INCH SSFM WILL BE CL 52 DI UNLESS OTHERWISE NOTED. THE PIPELINE SHALL BE FULLY RESTRAINED AT ALL JOINTS AND FITTINGS.

(#) KEY NOTES:

1. CONNECTION OF THE GRAVITY PIPE TO THE NEW COMI SSMH-6 WILL BE MADE BY CONTRACT C01340C20.
2. PROVIDE A MINIMUM OF 20 LF OF DI EPOXY LINED PIPE UPSTREAM FROM COMI SSMH-6.
3. FOR FLEXIBILITY, PROVIDE TWO JOINTS, ONE 2 FT AND THE SECOND 7 FT UPSTREAM FROM THE MH. THE JOINTS ARE TO BE THE SAME RESTRAINED JOINTS USED FOR THE NEW DI PIPE.

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60

SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

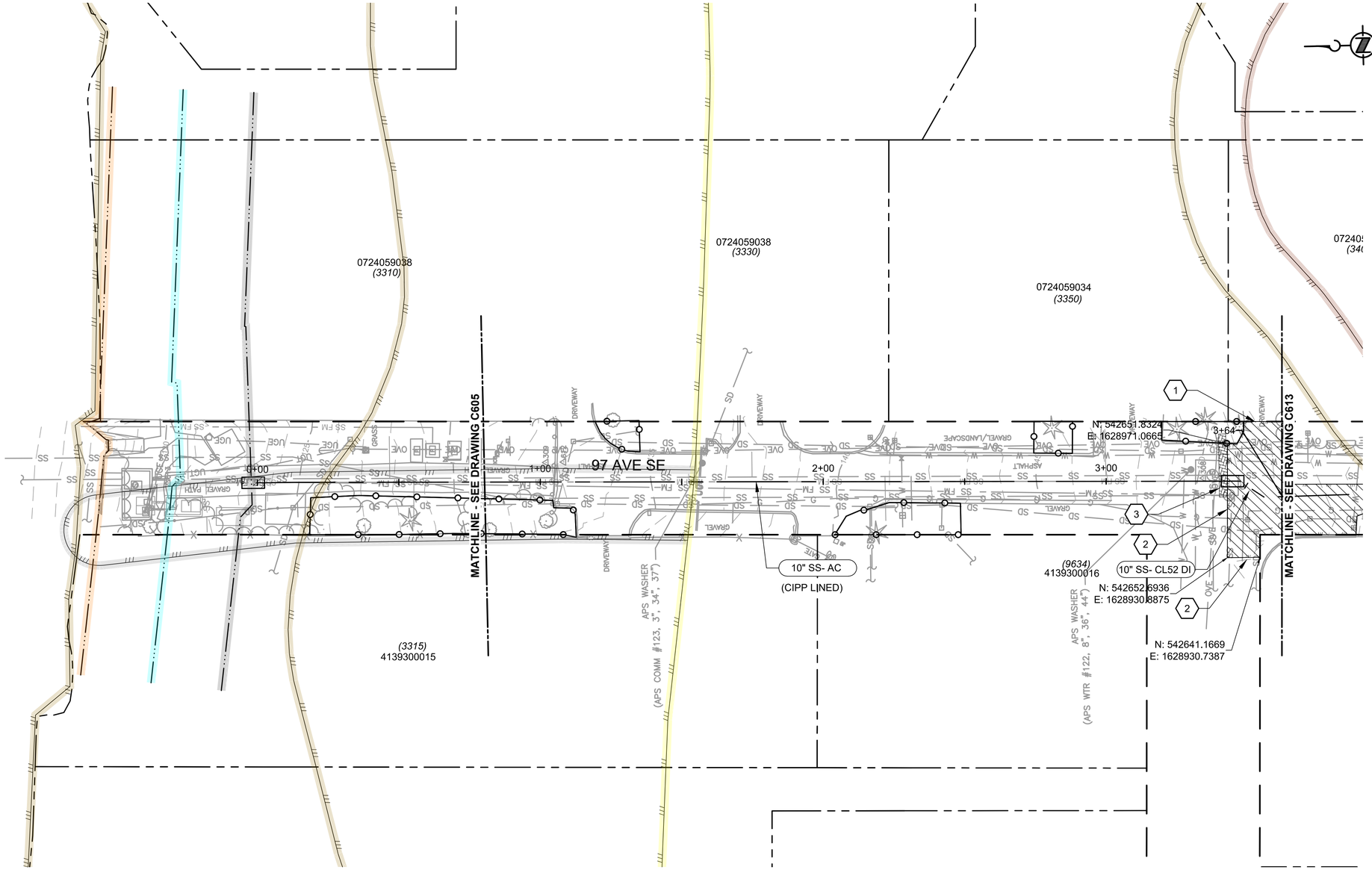
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN PLAN AND PROFILE STA 3+64 TO STA 6+16

DCN:	
DATE:	05/02/2019
PROJECT FILE NO:	
DRAWING NO:	C611
SHT NO / TOTAL	/
REV NO:	

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-C611.dwg
PLOT DATE: 8/2/2019 7:52 AM
PLOTTED BY: DAuria, Isaac



THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

NOTES:

1. SEE DETAIL 7/C051 FOR STANDARD PAVEMENT AND RESTORATION DETAILS.
2. REPAIR ANY IRRIGATION DAMAGED DURING CONSTRUCTION. CONTRACTOR TO DEMONSTRATE TO PROJECT REPRESENTATIVE THAT SYSTEM HAS BEEN REPAIRED TO EXISTING CONDITION.
3. RESTORE ROADWAY PAVEMENTS, CHANNELIZATIONS, STRIPING, AND ROADWAY MARKERS PER CITY OF MERCER ISLAND REQUIREMENTS.
4. REPROVIDE ANY MAILBOXES REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. REMOVE TEMPORARY MAILBOXES. NEW POSTS TO BE USED IF ORIGINAL POSTS ARE DAMAGED DURING REMOVAL.
5. REPROVIDE ANY SIGNS REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. NEW POSTS TO BE USED IF ORIGINAL POSTS DAMAGED DURING REMOVAL.
6. NOT USED
7. CONTRACTOR SHALL REPLACE UNANTICIPATED LANDSCAPE IMPACTS TO MATCH EXISTING CONDITIONS.
8. FOR EXTENTS OF FULL DEPTH TRENCH PAVEMENT REPLACEMENT SEE PLAN AND PROFILE DRAWINGS AND TRENCH SECTION DETAILS.
9. FOR TEMPORARY DIVERSION PIPING RESTORATION WITHIN FRUITLAND LANDING REFER TO C603.

(#) KEY NOTES:

1. SAW CUT PAVEMENT AT ROW. SEE DETAIL 5/C051.
2. SAW CUT EXISTING EDGE OF PAVEMENT AT LOCATIONS INDICATED. SEE DETAIL 6/C051.
3. REFER TO DETAIL 7/C051 FOR FULL PAVEMENT RESTORATION DETAIL.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

SCALE IN FEET: 0 20 40 60

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

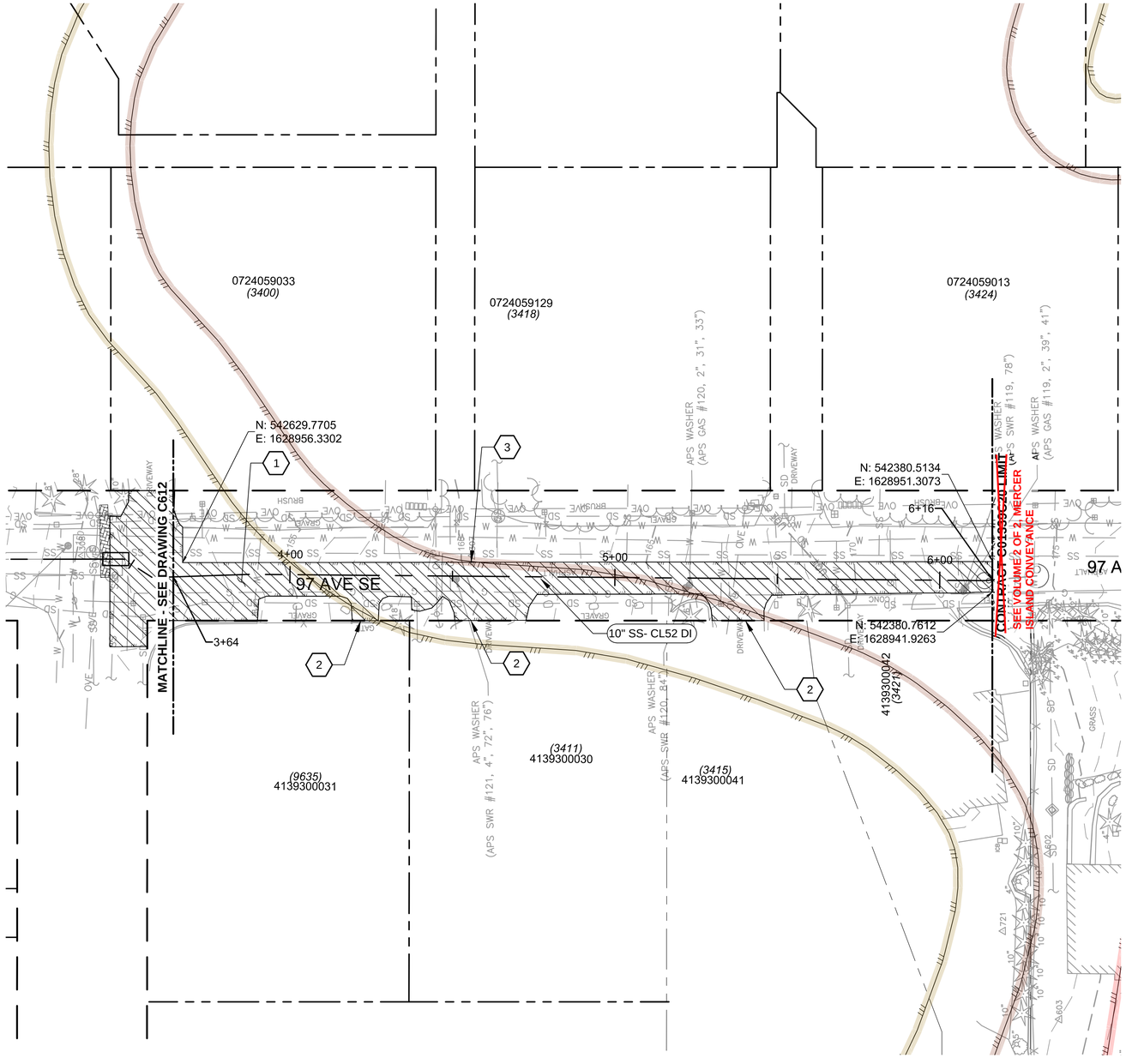
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN SITE RESTORATION STA 00+00 TO 3+64

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: C612
SHT NO / TOTAL: /
REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\702CIVIL\Conduse Permit Drawings\Station\E00306E13-LS11-C612.dwg
PLOT DATE: 9/27/2019 9:14 AM
PLOTTED BY: D'Auria, Isaac



NOTES:

1. SEE DETAIL 7/C051 FOR STANDARD PAVEMENT AND RESTORATION DETAILS.
2. REPAIR ANY IRRIGATION DAMAGED DURING CONSTRUCTION. CONTRACTOR TO DEMONSTRATE TO PROJECT REPRESENTATIVE THAT SYSTEM HAS BEEN REPAIRED TO EXISTING CONDITION.
3. RESTORE ROADWAY PAVEMENTS, CHANNELIZATIONS, STRIPING, AND ROADWAY MARKERS PER CITY OF MERCER ISLAND REQUIREMENTS.
4. REPROVIDE ANY MAILBOXES REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. REMOVE TEMPORARY MAILBOXES. NEW POSTS TO BE USED IF ORIGINAL POSTS ARE DAMAGED DURING REMOVAL.
5. REPROVIDE ANY SIGNS REMOVED AND STORED DURING CONSTRUCTION IN THE ORIGINAL LOCATION AND ORIENTATION. NEW POSTS TO BE USED IF ORIGINAL DAMAGED DURING REMOVAL.
6. NOT USED
7. CONTRACTOR SHALL REPLACE UNANTICIPATED LANDSCAPE IMPACTS TO MATCH EXISTING CONDITIONS.
8. FOR EXTENTS OF FULL DEPTH TRENCH PAVEMENT REPLACEMENT SEE PLAN AND PROFILE DRAWINGS AND TRENCH SECTION DETAILS.

(#) KEY NOTES:

1. PAVEMENT OVERLAY WIDTH (EXCLUDING DRIVEWAYS) VARIES. AVERAGE WIDTH APPROXIMATELY 10.5 FT.
2. SAW CUT PAVEMENT AT ROW. SEE DETAIL 5/C051.
3. SAW CUT EXISTING EDGE OF PAVEMENT AT LOCATIONS INDICATED. SEE DETAIL 6/C051.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 20 40 60
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: M. TOOLEY	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

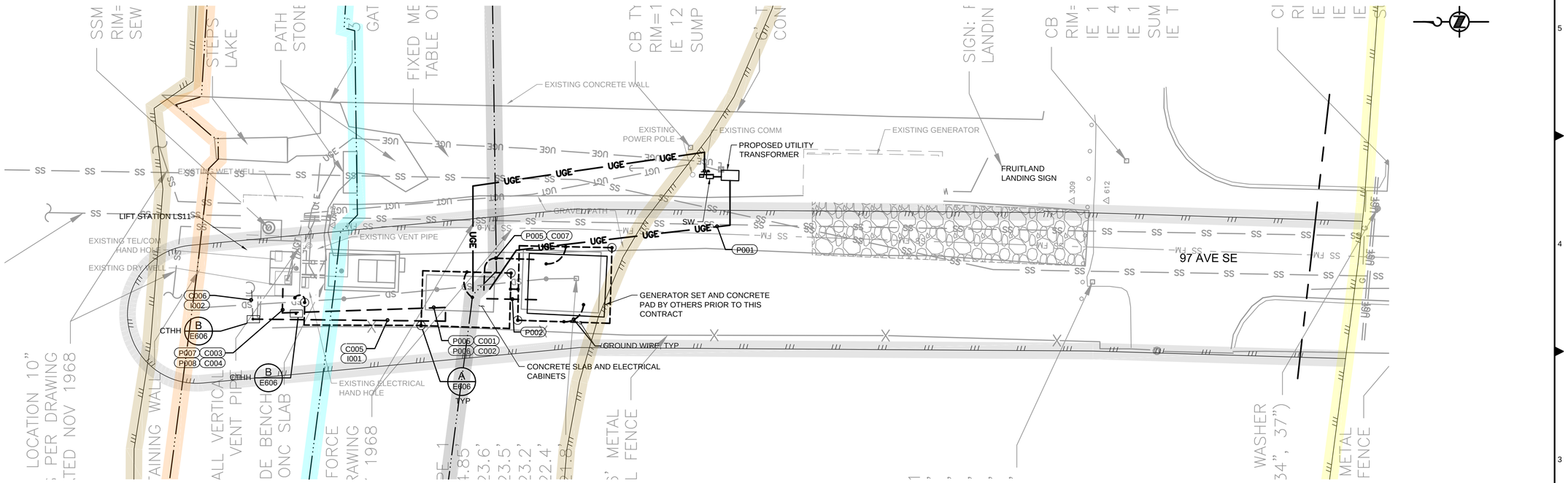
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 FORCE MAIN SITE RESTORATION STA 3+64 TO STA 6+16

DCN:	
DATE: 05/02/2019	
PROJECT FILE NO:	
DRAWING NO: C613	
SHT NO / TOTAL: /	REV NO:

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION:P:\W3X67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-C613.dwg
PLOT DATE: 8/2/2019 7:47 AM
PLOTTED BY: D'Auria, Isaac



ELECTRICAL SITE PLAN

SCALE: 1" = 10'-0"

THE PIPED STREAM HAS BEEN RELOCATED BY THE CITY OF MERCER ISLAND. RELOCATED ALIGNMENT AND SUBSEQUENT BUFFER WILL BE UPDATED AS SOON AS INFORMATION BECOMES AVAILABLE.

CRITICAL AREAS LEGEND

- 120' POTENTIAL FISH-BEARING STREAM BUFFER
- PIPED STREAM BUFFER
- 60' PERENNIAL STREAM BUFFER
- 60' SEASONAL STREAM BUFFER
- LANDSLIDE HAZARD AREA: DEEP-SEATED AND SHALLOW
- LANDSLIDE HAZARD BUFFER: DEEP-SEATED AND SHALLOW
- SEISMIC HAZARD AREA
- 200' LAKE WASHINGTON BUFFER
- ORDINARY HIGH WATER MARK
- 25' FROM ORDINARY HIGH WATER MARK
- 50' FROM ORDINARY HIGH WATER MARK
- LANDSLIDE HAZARD AREA: STEEP SLOPE
- LANDSLIDE HAZARD BUFFER: STEEP SLOPE

0 10 20 30
SCALE IN FEET

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
SEPTEMBER 2019

DESIGNED/DRAWN: MOLINARI/KOP	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: R. BROWNE	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: S. YILDIZ	CONTRACT NO: C01339C20

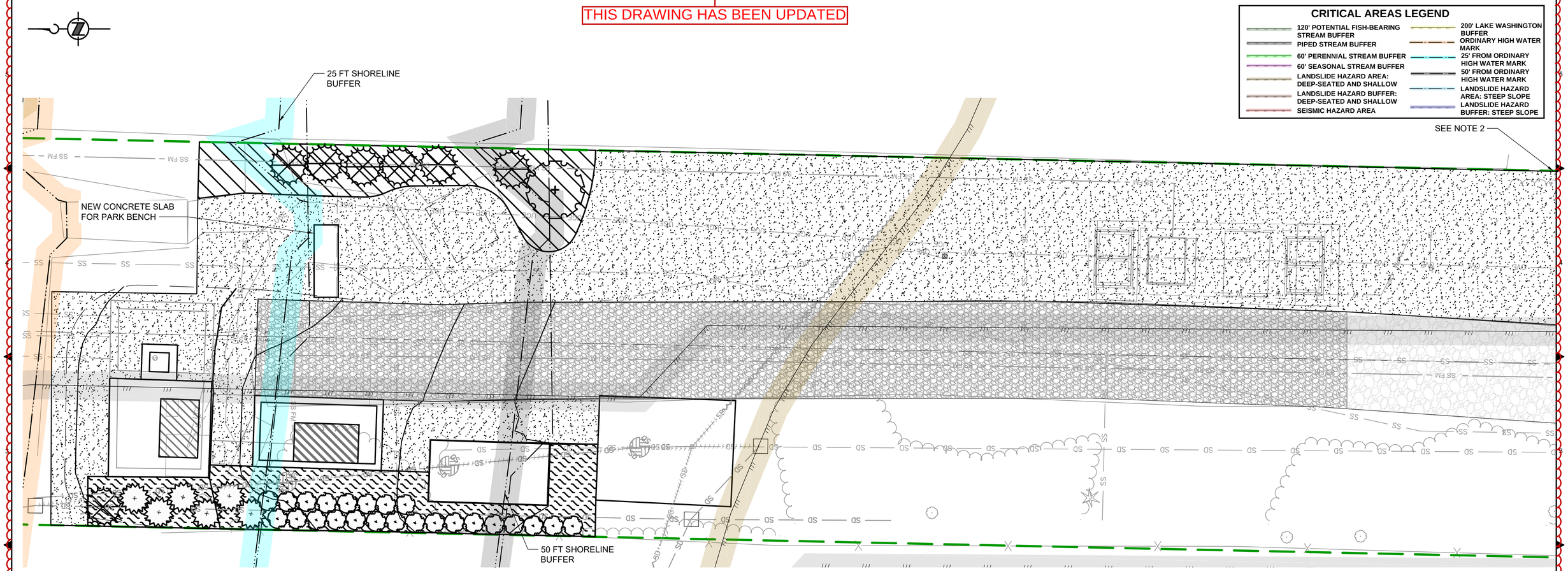
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS
LIFT STATION 11
ELECTRICAL SITE PLAN

DCN:
DATE: 05/02/2019
PROJECT FILE NO:
DRAWING NO: **E602**
SHT NO 22 / TOTAL /
REV NO: **0**

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3K67200\700CADD\702CIVIL\Landuse Permit Drawings\Station\E00306E13-LS11-E602.dwg
PLOT DATE: 9/27/2019 7:58 AM
PLOTTED BY: D'Auria, Isaac

THIS DRAWING HAS BEEN UPDATED



LEGEND:

- VINE MAPLE
- MAHONIA 'WINTER SUN'
- EVERGREEN HUCKLEBERRY
- WESTERN SWORD FERN
- WESTERN SWORDFERN
- CRANESBILL GERANIUM
- LAWN SEED

NOTES:

1. SEE DWG L602 FOR PLANTING NOTES, SCHEDULE AND PLANTING DETAILS.
2. LAWN SEEDING EXTENT IS APPROXIMATE AND MAY EXTEND BEYOND THE LIMITS OF THIS DRAWING. TOTAL AREA OF LAWN SEEDING SHOWN IS 2,267 SQ. FT.

0 10' 20'

HORIZONTAL SCALE

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: L. FRENCH	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 LANDSCAPE PLAN

DCN:

DATE: 03/9/2020
PROJECT FILE NO: 20-1116800
DRAWING NO: L601
SHT NO 28 / TOTAL /
REV NO: 0

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: P:\W3X67200\700CADD\715LAND\E00306E13-LS11-L601.dwg
PLOT DATE: 3/4/2020 3:00 PM
PLOTTED BY: Charlie Cowan

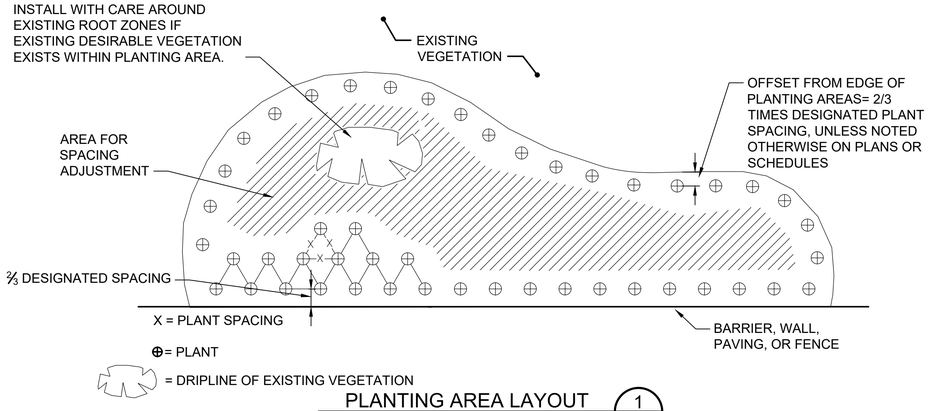
THIS DRAWING HAS BEEN UPDATED

PLANT SCHEDULE

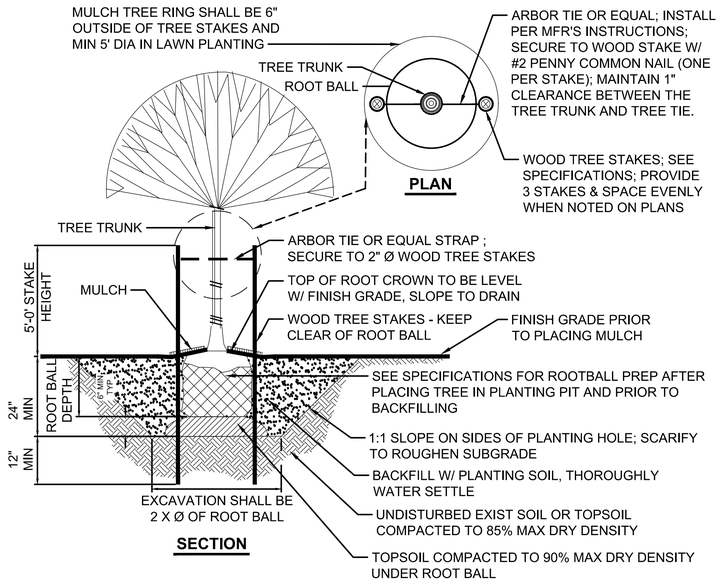
COMMON NAME	BOTANICAL NAME	SPACING	QTY.	ROOT CONDITION	SIZE
TREES					
VINE MAPLE	ACER CIRCINATUM	AS SHOWN	1	1.5 IN. CAL.	> 6 FT. HEIGHT
SHRUBS AND GROUNDCOVERS					
MAHONIA 'WINTER SUN'	MAHONIA X MEDIA 'WINTER SUN'	AS SHOWN	7	#5 CONT.	24 IN. HEIGHT
EVERGREEN HUCKLEBERRY	VACCINIUM OVATUM	AS SHOWN	6	#5 CONT.	24 IN. HEIGHT
WESTERN SWORDFERN	POLYSTICHUM MUNITUM	AS SHOWN	24	#1 CONT.	12 IN. HEIGHT
WESTERN SWORDFERN	POLYSTICHUM MUNITUM	2 FT. O.C.	61	#1 CONT.	12 IN. HEIGHT
CRANESBILL GERANIUM	GERANIUM MACRORRHIZUM	1.5 FT O.C.	121	#1 CONT.	12 IN HEIGHT

NOTES:

1. ALL PLANT MATERIAL SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM REQUIREMENTS, AND ARE IN ACCORDANCE WITH THE CURRENT EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK". IF A CONFLICT OCCURS BETWEEN THESE SPECIFICATIONS AND THE "A.S.N.S.", THESE SPECIFICATIONS SHALL APPLY.
2. ALL CONTAINERIZED PLANTS SHALL HAVE ROOT SYSTEMS WHICH FULLY FILL THE CONTAINER WITHOUT HAVING ROOTS THAT CIRCLE THE POT. CONTAINERIZED AND B&B TREES SHALL NOT HAVE TAP ROOTS THAT FORM A "J" SHAPE.
3. IMMEDIATELY BEFORE INSTALLATION, PLANT'S ROOTS THAT ARE BROKEN, DAMAGED, OR TWISTED SHALL BE PRUNED. MATTED OR CIRCLING ROOTS OF CONTAINERIZED PLANTS MUST BE PRUNED OR STRAIGHTENED AND THE SIDES OF THE ROOT BALL SHALL BE ROUGHENED FROM TOP TO BOTTOM TO A DEPTH OF APPROXIMATELY ONE HALF INCH IN TWO TO FOUR PLACES.
4. CONTRACTOR IS ADVISED THAT A GROWING CONTRACT MAY BE NECESSARY TO OBTAIN THE AMOUNTS AND CONTAINER SIZES OF PLANTS SPECIFIED.
5. WHILE INSTALLING NEW PLANTINGS, USE CARE TO PROTECT ROOTS OF EXISTING TREES. .



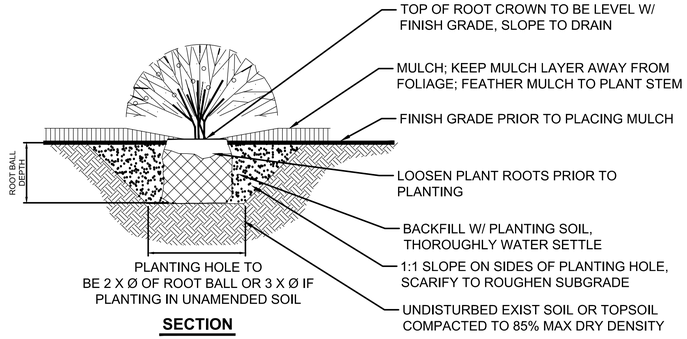
PLANTING AREA LAYOUT — SCALE: NTS — 1 VAR



NOTES:

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
2. PROVIDE 24" MIN DEPTH OF TOPSOIL AT DECIDUOUS TREE EXCAVATION.
3. ROTATE TREES IN PLANTING AREAS ADJACENT TO VEHICULAR ZONES SO THAT THE DOMINANT BRANCHES ALIGN PARALLEL TO THE VEHICULAR ZONES.
4. ADD MANUFACTURER-RECOMMENDED AMOUNT OF MYCORRHIZAL INOCULANT

TREE PLANTING — SCALE: NTS — 2 VAR



NOTES:

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
2. ADD MANUFACTURER-RECOMMENDED AMOUNT OF MYCORRHIZAL INOCULANT

SHRUB PLANTING — SCALE: NTS — 3 VAR

FOR REFERENCE ONLY

NO	REVISION DESCRIPTION	BY	APVD	DATE

TETRA TECH
JACOBS

PRELIMINARY ISSUE DRAWING
INFORMATION ONLY
DRAFT
MERCER ISLAND LAND USE SET
MARCH 2020

DESIGNED/DRAWN: L.FRENCH	SCALE: AS NOTED
PROJECT ENGINEER: J. CHAE	REFERENCE 0 1"
DESIGN APPROVAL: J. COLLINS	FACILITY NUMBER: N/A
PROJECT ACCEPTANCE: C. SCHAUMBERG	CONTRACT NO: C01339C20

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
NORTH MERCER ISLAND INTERCEPTOR AND ENATAI INTERCEPTOR UPGRADE - PUMP STATION IMPROVEMENTS

LIFT STATION 11 LANDSCAPE DETAILS

DCN:	
DATE:	03/9/2020
PROJECT FILE NO:	20-1116800
DRAWING NO:	L602
SHT NO / TOTAL	29 /
REV NO:	0

BORDER FILE EDITION: KCWTD-2012-Dsize-TB-Border
FILE LOCATION: \\SEAFIL01\Pro\W3X67200\700CADD\715LAND\E00306E13-LS11-L602.dwg
PLOT DATE: 2/13/2020 2:11 PM
PLOTTED BY: Travis Jones