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CITY OF BREMERTON

DEPARTMENT OF PUBLIC WORKS AND UTILITIES

KITSAP WAY CULVERT REPLACEMENT

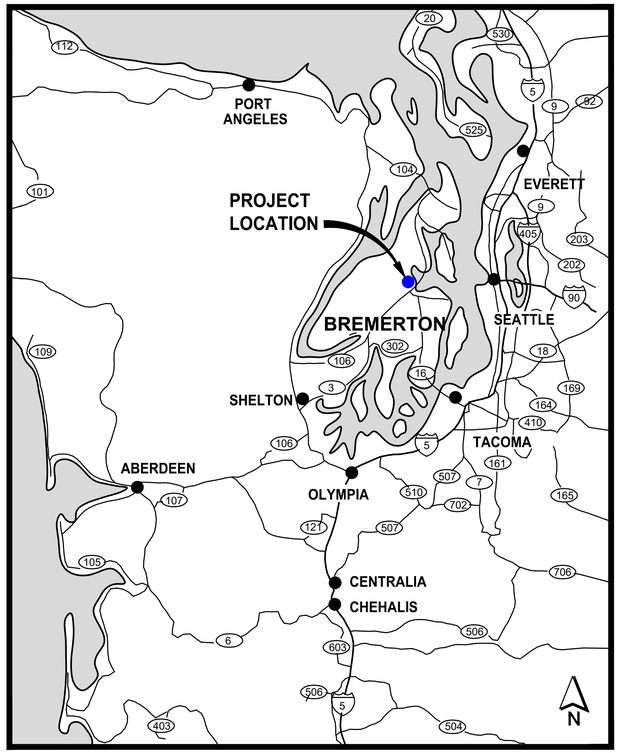
CITY OF BREMERTON PROJECT NO. 869

PUBLIC WORKS TRUST FUND (PWTF)

LOAN NO. PC18-96103-004

DECEMBER 2020

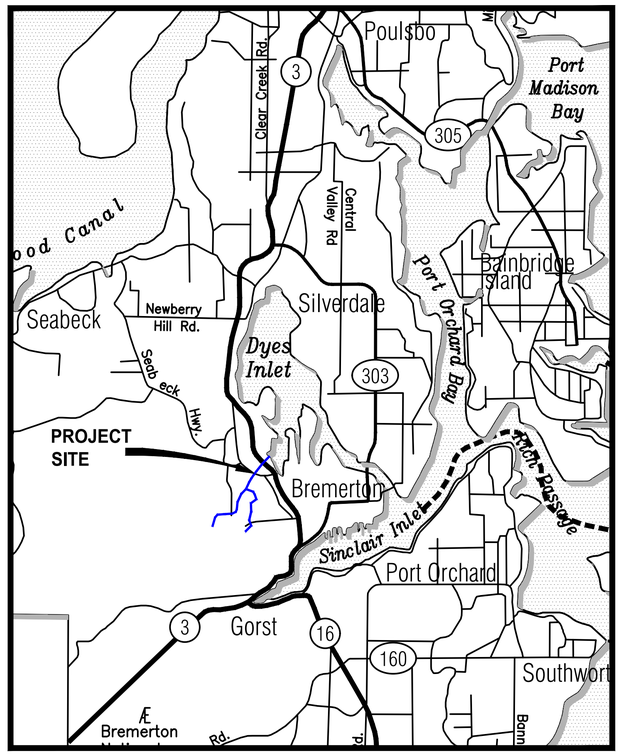
City of Bremerton
Engineering Division



VICINITY MAP
NO SCALE

INDEX TO DRAWINGS

SHT NO.	DWG NO.	SHEET TITLE
GENERAL		
1	G1	COVER SHEET
2	G2	GENERAL NOTES, LEGEND AND ABBREVIATIONS
3	G3	SURVEY CONTROL AND ROW PLAN
SITE PREPARATION		
4	SP1	SITE PREPARATION AND DEMOLITION
5	SP2	STREAM DIVERSION PLAN
CIVIL		
6	C1	STREAM PLAN AND PROFILE
7	C2	ROADWAY PLAN AND PROFILE
8	C3	FLOWLINE PLAN AND PROFILES
9	C4	ROADWAY DETAILS AND STREAM DETAILS AND DRAINAGE PROFILES
10	C5	CULVERT DETAILS
11	C6	MISCELLANEOUS DETAILS
12	D1	CITY OF BREMERTON STANDARD DETAILS
13	D2	CITY OF BREMERTON STANDARD DETAILS
UTILITY		
14	UT1	UTILITY PLAN
LANDSCAPING		
15	LS1	LANDSCAPE PLAN AND PLANTING SCHEDULE
TRAFFIC CONTROL		
16	TC1	TRAFFIC CONTROL - PHASE 1
17	TC2	TRAFFIC CONTROL - PHASE 2
18	TC3	TRAFFIC CONTROL SECTIONS



LOCATION MAP
NO SCALE

811 Know what's below. Call before you dig. 12/30/2020

2020.12.30 17:10:40-08'00'

APPROVED BY _____
GUNNAR FRIDRIKSSON, P.E.
STORMWATER PROJECT MANAGER

BID SET

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

DRAWN BY: *R. SAYLES* DATE: *12/30/2020*
DESIGN BY: *R. SAYLES* WASH. P.E. *#58086* DATE:*12/30/2020*
CHECKED BY: *D. DINKUHN* WASH. P.E. *#35814* DATE:*12/30/2020*

KITSAP WAY CULVERT REPLACEMENT

COVER SHEET

PN: 233-1896-153

DWG NO. **G1**
SHEET 1 OF 18

EXISTING LEGEND:

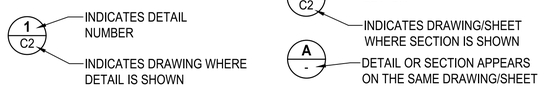
- SEWER CLEAN OUT
- MANHOLE SEWER
- SS SEWER LOCATES
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- W WATER LOCATES
- CATCH BASIN
- AREA BASIN
- CATCH BASIN SOLID
- SD STORM LOCATES
- DITCH CENTERLINE
- PROPERTY LINE
- TR TELEPHONE RISER
- CABLE TV RISER
- CABLE TV JUNCTION BOX
- T COMMUNICATIONS LOCATES
- MB MAIL BOX
- SIGN
- BIKE PAINT STENCIL
- CONIFER TREE
- DECIDUOUS TREE
- SHRUB
- HEDGE
- ROCKERY
- EDGE OF PAVEMENT
- P POWER

PROPOSED LEGEND:

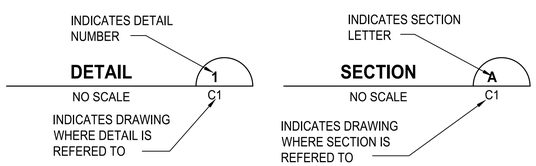
- CEMENT CONCRETE SIDEWALK
- HMA
- STREAMBED AGGREGATE
- RIPARIAN RESTORATION AREA
- UPLAND VEGETATION AREA
- HYDROSEED
- CEMENT CONC. CURB AND GUTTER
- SAWCUT
- EDGE OF ASPHALT
- EDGE OF SHOULDER
- 40 41 CONTOURS
- -----c-----c----- CUT
- —cg—cg—cg— CLEARING AND GRUBBING
- -----f-----f----- FILL
- WATER VALVE
- P POWER
- W WATER LINE

SECTION AND DETAIL DESIGNATIONS

DETAIL CALLOUT:



SECTION AND DETAIL DESIGNATION:

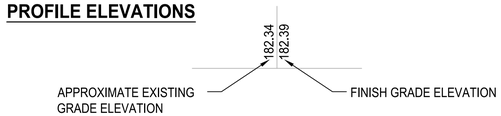


811 Know what's below. Call before you dig. 12/30/2020

ABBREVIATIONS

Δ	DELTA ANGLE
ALUM	ALUMINUM
AP	ANGLE POINT
B/W	BACK OF WALK
BLDG	BUILDING
C&G	CURB AND GUTTER
CB	CATCH BASIN
CI	CAST IRON
CIP	CAST IN PLACE
CL	CENTERLINE
CO	CLEAN OUT
COB	CITY OF BREMERTON
CONC	CONCRETE
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CULV	CULVERT
DEMO	DEMOLITION
DI	DUCTILE IRON
DIA	DIAMETER
DWG	DRAWING
E	EAST, EASTING
EA	EACH
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EX, EXIST	EXISTING
FL	FLOW LINE
FOC	FACE OF CURB
FT	FOOT, FEET
G	GAS
GA	GAUGE
GV	GATE VALVE
H, HORIZ	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
IE	INVERT ELEVATION
IN	INCH
L	LENGTH
LT	LEFT
LF	LINEAR FOOT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
N	NORTH, NORTHING
NE	NORTH EAST
NTS	NOT TO SCALE
NW	NORTH WEST
NTS	NOT TO SCALE
OC	ON CENTER
OHW	ORDINARY HIGH WATER
OP	OVERHEAD POWER
P	POWER
PC	POINT OF CURVATURE
PCC	PRE CAST CONCRETE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
PK	SURVEY NAIL
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY, POINT
R	RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FOOT, FEET
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
SW	SOUTH WEST
S/W	SIDEWALK
TBC	TOP BACK OF CURB
TYP	TYPICAL
V, VERT	VERTICAL
W	WIDTH, WATER, WEST
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

PROFILE ELEVATIONS



PLAN ELEVATIONS

GENERAL NOTES

1. THE CONTRACTOR SHALL CALL THE UTILITY LOCATION REQUEST CENTER PRIOR TO ANY EXCAVATION WORK. NO EXCAVATION SHALL BEGIN UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED.
2. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST EDITION, AND CITY OF BREMERTON STANDARDS.
3. THE CONTRACTOR SHALL MEET THE CONDITIONS OF ALL PROJECT PERMITS AND LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
4. THE CONTRACTOR SHALL LIMIT THE AREA OF CLEARING TO ONLY THAT WHICH IS SHOWN IN THE PLANS. ALL DISTURBED AREAS SHALL BE GRADED TO MATCH THE EXISTING GROUND AND PROMPTLY HYDROSEEDED.
5. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT. ALL MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY. SEE SPECIAL PROVISIONS SECTION 1-07.15.

SEDIMENT / EROSION CONTROL NOTES

1. PROTECT EXISTING STORM WATER INFRASTRUCTURE ON EXISTING ROADS NEAR CONSTRUCTION ENTRANCES FROM SEDIMENT-LADEN RUNOFF.
2. WHEN TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ARE NO LONGER NEEDED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THEM AND RESTORE OR FINISH THE AREAS UNLESS OTHERWISE DIRECTED BY THE CITY.
3. THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO ALL OTHER CONSTRUCTION.
4. WHERE POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
5. AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, THE EROSION CONTROL FACILITIES SHALL BE MAINTAINED AND/OR ALTERED AS REQUIRED BY THE ENGINEER TO INSURE CONTINUING EROSION/SEDIMENTATION CONTROL.
6. ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL AND THE POTENTIAL FOR EROSION HAS PASSED.
7. ALL DISTURBED LAND AREAS LEFT FOR 30 DAYS OR MORE SHALL BE SEEDED WITH A MIX AND BY A METHOD APPROVED BY THE CITY AND MAINTAINED UNTIL SEED GERMINATION IS ASSURED.
8. THE PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAN. TRACKING OF MUD AND DEBRIS FROM THE SITE ONTO THE PUBLIC RIGHT-OF-WAY WILL NOT BE ALLOWED. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED.
9. CLEANUP AND RESTORATION. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED IN CLEANING AND RESTORING THE CONSTRUCTION SITE:
   - A. STREET SHALL BE SWEPT EACH DAY AS NEEDED.
   - B. DISTURBED SOILS SHALL BE FINAL GRADED, SEEDED, AND MULCHED; OR SODDED AFTER THE INSTALLATION OF THE UTILITY.
   - C. DITCHES SHALL BE SEEDED, JUTE MATTED, NETTED, SODDED, OR ROCK LINED TO CONTROL EROSION.
   - D. ANY DEBRIS INCLUDING ROCKS, COBBLES, DIRT, AND SILT OF DOWNSTREAM DRAINAGE FACILITIES, WHETHER DITCHES OR PIPE AND CATCH BASINS, WHICH RESULTS FROM THE CONSTRUCTION, SHALL BE CLEANED OUT.

CONSTRUCTION NOTES

1. MAINTAIN CONVEYANCE OF STORM DRAINAGE, SEWAGE FLOWS, AND WATER SERVICE DURING THE CONSTRUCTION. WHEN AN OUTAGE IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY 72 HOURS AHEAD OF THE OUTAGE, THE OUTAGE SHALL NOT EXCEED 4 HOURS UNLESS APPROVED BY THE CITY.
2. ALL FLOWS FROM CUT UTILITIES SHALL BE BYPASSED. SUPPLY AND MAINTAIN ALL EQUIPMENT FOR BYPASSING STORMWATER AND WASTEWATER FLOW. ALL BYPASSING METHODS SHALL BE REVIEWED BY THE CITY PRIOR TO IMPLEMENTATION. ALL COSTS FOR BYPASSING FLOW SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS.
3. VERIFY LOCATIONS, ELEVATIONS, DIAMETERS, MATERIALS, STRUCTURE TYPES, AND OTHER PARAMETERS OF EXISTING FACILITIES TO WHICH NEW STRUCTURES/PIPING WILL CONNECT BEFORE ORDERING MATERIALS.
4. SURVEY AND FIELD STAKE ALL ALIGNMENTS PRIOR TO EXCAVATION. SUBMIT RECORD DRAWINGS BASED ON FIELD SURVEY UPON COMPLETED OF PROJECT.
5. HORIZONTAL DIMENSIONS AND STATION OFFSETS ON PLAN AND PROFILE SHEETS TO PIPELINES, MANHOLES, AND OTHER FACILITIES UNLESS SPECIFICALLY NOTED OTHERWISE. INVERT ELEVATIONS IN MANHOLES AND OTHER STRUCTURES IDENTIFIED IN THE PLANS REFERS TO THE ELEVATIONS AT THE INVERT OF THE PIPE.
6. MANHOLES AND STRUCTURES ARE SHOWN ON THE PLANS SYMBOLICALLY. CONSTRUCT MANHOLES AND STRUCTURES AS SHOWN ON THE DETAILED DRAWINGS AND AS SPECIFIED.
7. UTILITY CROSSINGS ARE GENERALLY SHOWN ON THE PLAN AND PROFILE DRAWINGS WHEN KNOWN. IF DEPTH IS NOT SHOWN, THE CITY MAY DIRECT THE CONTRACTOR TO POTHOLE THE UTILITY TO CONFIRM THE ELEVATION PRIOR TO CONSTRUCTION. POTHOLING IS PAID AS A UNIT BID ITEM.
8. WHERE KNOWN, RESIDENTIAL WATER SERVICE LINES ARE SHOWN ON THE PLAN AND PROFILE SHEETS. WATER SERVICE LINE DEPTHS AND LOCATIONS ARE NOT KNOWN WITH CERTAINTY. THE CONTRACTOR SHALL CAREFULLY WORK IN THE VICINITY OF WATER SERVICE LINES. NOTIFY THE CITY WHEN NEARING A WATER SERVICE LINE. THE CONTRACTOR WILL CUT AND RESTORE WATER SERVICES THAT INTERSECT THE TRENCH TO ALLOW FOR PIPE INSTALLATION.
9. WHERE KNOWN, SEWER LATERALS ARE SHOWN ON THE PLAN PROFILE SHEETS. DEPTH OF THE LATERAL AT THE NEW SEWER MAIN IS NOT KNOWN WITH CERTAINTY. THE CONTRACTOR SHALL CUT AND RESTORE SEWER LATERALS TO ALLOW FOR INSTALLATION OF THE PIPE. MAINTAIN A SUPPLY OF PVC PIPE AND FLEXIBLE COUPLINGS AT THE PROJECT SITE TO EXPEDITE RESTORATION OF LATERALS. THE SIZE AND MATERIAL TYPE OF EXISTING LATERALS VARIES.
10. USE EXTREME CAUTION WHEN EXCAVATING NEAR GAS MAINS. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE GAS COMPANY WHEN WORKING IN THE VICINITY OF GAS MAINS, WHICH MAY INCLUDE HAVING A REPRESENTATIVE FROM THE GAS COMPANY ON-SITE DURING CONSTRUCTION AND POTHOLING.
11. OVERHEAD UTILITY CABLES (E.G. POWER, CABLE, ETC.) ARE GENERALLY NOT SHOWN. DETERMINE THE EXTENT OF HAZARDS OR IMPACTS ON CONSTRUCTION ACTIVITIES DURING THE BIDDING PROCESS AND PRIOR TO MOBILIZATION. FOLLOW LAWFUL AND SAFE PROCEDURES DURING CONSTRUCTION FOR WORKING AROUND OVERHEAD POWER. COORDINATE WITH THE RESPECTIVE FRANCHISE UTILITY (I.E. GAS, CABLE, POWER, TELEPHONE) FOR LOCATING PIPING OR CONDUIT.
12. COORDINATE WITH UTILITY PROVIDERS AS NEEDED WHILE TRENCHING IN THE VICINITY OF UTILITY POLES OR BURIED UTILITIES TO ENSURE UTILITIES ARE NOT DAMAGED OR UNDERMINED DURING SUBSURFACE CONSTRUCTION.
13. PLACE AND MAINTAIN TEMPORARY PAVEMENT PATCHING (COLD MIX ASPHALT) IF FINAL PAVEMENT RESTORATION DOES NOT OCCUR IMMEDIATELY AFTER BACKFILLING.
14. MAXIMUM ALLOWABLE TRENCH LENGTH OPEN AT ANY TIME IS 100 FEET, UNLESS APPROVED OTHERWISE BY THE ENGINEER.
15. PRIOR TO FINAL SAWCUTTING IN PREPARATION FOR SURFACE RESTORATION, THE CONTRACTOR SHALL WALK AREAS DESIGNATED FOR RESTORATION WITH THE ENGINEER TO DETERMINE SAWCUT LINES.

STRUCTURAL NOTES

1. PRECAST UNITS, FOOTING, AND WING WALLS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. CONCRETE FOR PRECAST UNITS, FOOTINGS, AND WING WALLS SHALL BE CLASS 4000 MIN.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617.
4. DESIGN LOADING SHALL BE HL-93 AND DESIGN METHOD SHALL BE IN ACCORDANCE WITH THE WSDOT GEOTECHNICAL DESIGN MANUAL AND AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (LATEST EDITIONS).
5. REFER TO PROJECT GEOTECHNICAL REPORT FOR SOIL AND GROUNDWATER INFORMATION, FOOTING ALLOWABLE BEARING PRESSURE, AND LATERAL LOADS.
6. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.

BID SET

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2" — TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE: HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

DRAWN BY: *R. SAYLES* DATE: *12/30/2020*

DESIGN BY: *R. SAYLES* WASH. P.E. *#58086* DATE: *12/30/2020*

CHECKED BY: *D. DINKUHN* WASH. P.E. *#35814* DATE: *12/30/2020*

KITSAP WAY CULVERT REPLACEMENT

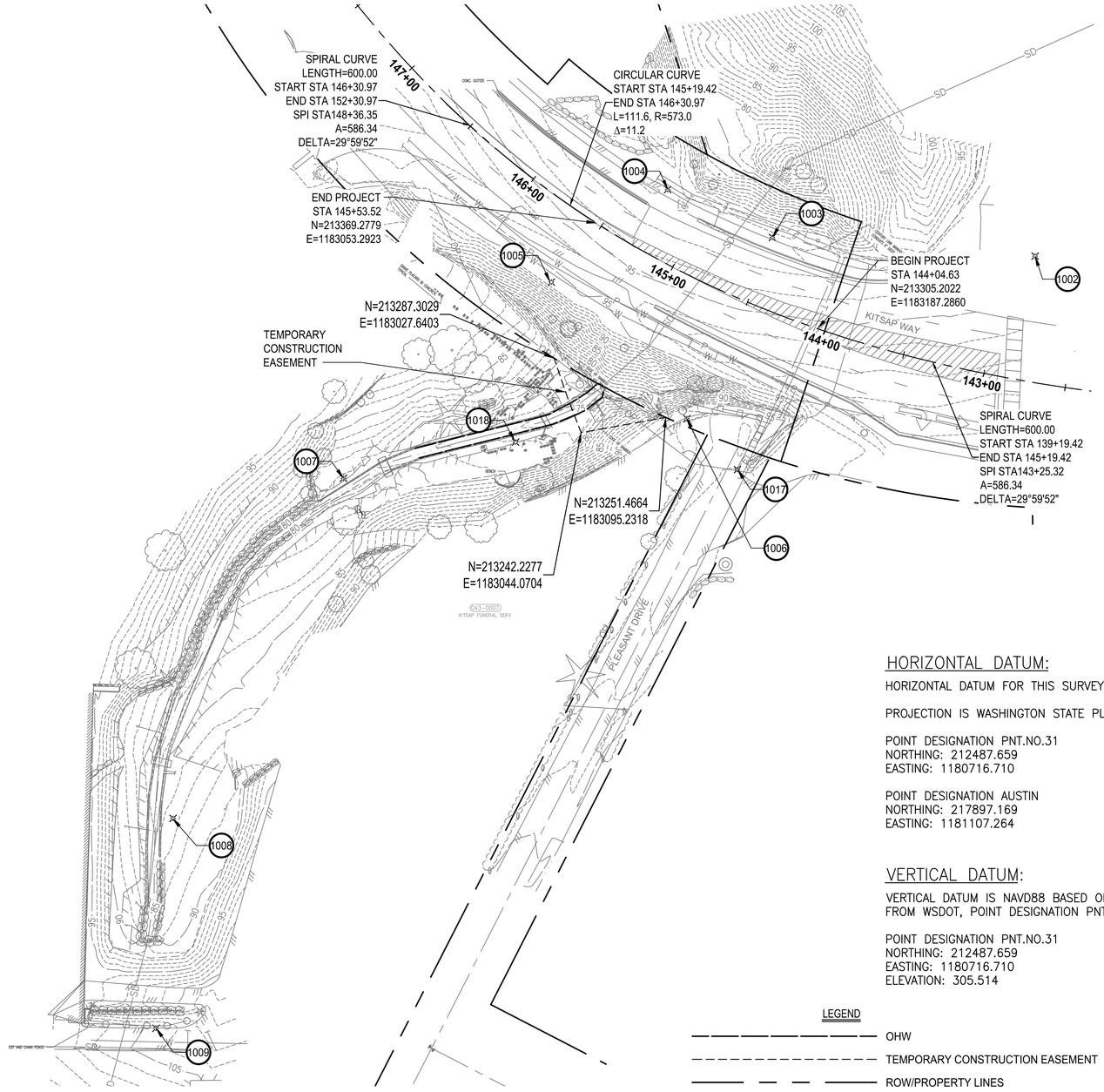
GENERAL NOTES, LEGENDS AND ABBREVIATIONS

PN: 233-1896-153

DWG NO. G2

SHEET 2 OF 18

FILE: PS1896153-G1 LAYOUT: G2 PATH: U:\PSO\Projects\Clients\1896-City0fBremerton\233-1896-153 Ostrich Creek Culvert\99Svcs\CADD\DWG\100% KITSAP WAY PLOTTED BY: OdegaCco DATE: Wednesday, December 30, 2020 10:54:06 AM



PARAMETRIX CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1002	213349.22	1183319.32	95.78	SET MAG NAIL
1003	213360.56	1183160.00	92.80	SET R/CAP
1004	213389.55	1183096.48	92.30	SET MAG NAIL
1005	213333.48	1183025.93	95.07	SET R/CAP
1007	213214.54	1182899.93	81.12	SET R/CAP
1008	213008.37	1182796.58	86.69	SET R/CAP
1009	212881.13	1182786.26	104.70	SET MAG NAIL
1017	213219.81	1183138.87	96.08	SET MAG NAIL
1018	213236.48	1183004.29	78.28	SET HUB & TACK

HORIZONTAL DATUM:

HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(91) BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATIONS PNT. NO. 31 AND AUSTIN.

PROJECTION IS WASHINGTON STATE PLANE NORTH ZONE, U.S. SURVEY FEET

POINT DESIGNATION PNT.NO.31
NORTHING: 212487.659
EASTING: 1180716.710

POINT DESIGNATION AUSTIN
NORTHING: 217897.169
EASTING: 1181107.264

VERTICAL DATUM:

VERTICAL DATUM IS NAVD88 BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION PNT.NO.31

POINT DESIGNATION PNT.NO.31
NORTHING: 212487.659
EASTING: 1180716.710
ELEVATION: 305.514

LEGEND

- OHW
- TEMPORARY CONSTRUCTION EASEMENT
- ROW/PROPERTY LINES
- TEMPORARY SURVEY BENCHMARK
- CENTERLINE

BID SET

12/30/2020

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NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
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KITSAP WAY CULVERT REPLACEMENT

SURVEY CONTROL AND ROW PLAN

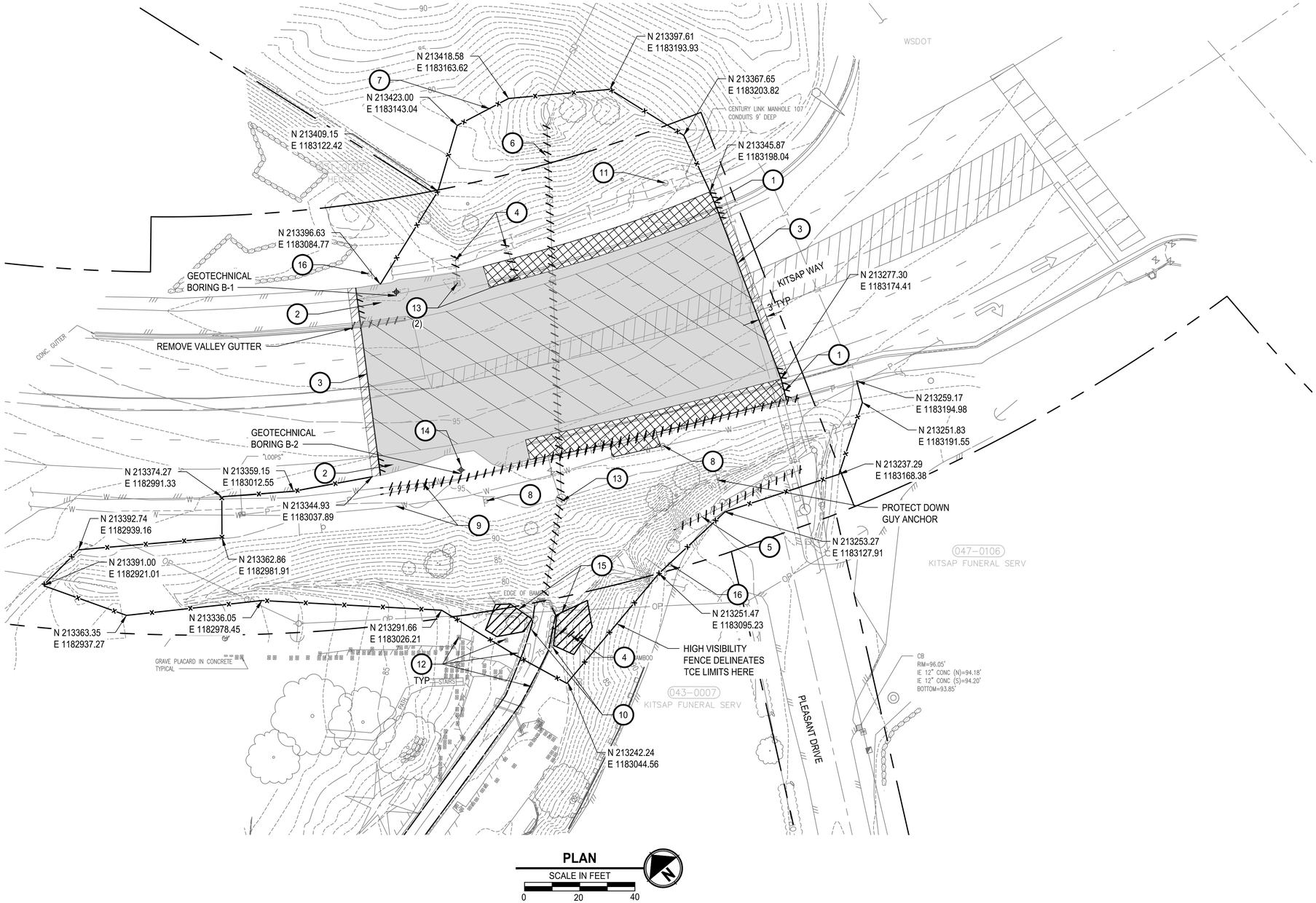
PN: 233-1896-153

DWG NO. **G3**
SHEET 3 OF 18

FILE: PS1896153-G1 LAYOUT: G3 PATH: U:\PSO\Projects\Clients\1896-City\OfBremerton\233-1896-153 Ostrich Creek Culvert\99Svcs\CADD\DWG\100% KITSAP WAY PLOTTED BY: OdegaCco DATE: Wednesday, December 30, 2020 10:54:14 AM

GENERAL NOTES:

1. COORDINATES SHOWN ARE FOR HIGH VISIBILITY FENCE. THIS FENCING DELINEATES CLEARING AND GRUBBING LIMITS.
2. ALL TREES, BRUSH, DOWN TIMBER, OR OTHER NATURAL MATERIAL IS TO BE REMOVED FROM THE CLEARING AND GRUBBING LIMITS.



PLAN

SCALE IN FEET

0 20 40

SITE PREPARATION & DEMOLITION NOTES

1. REMOVE SIDEWALK AT NEAREST JOINT
2. SAWCUT AND REMOVE ASPHALT PAVEMENT.
3. REMOVE ASPHALT OVER CONCRETE PAVEMENT AT NEAREST JOINT .
4. REMOVE STORM DRAIN.
5. REMOVE GUARDRAIL
6. REMOVE CONCRETE BOX CULVERT
7. HIGH VISIBILITY FENCE
8. REMOVE SIGN
9. REMOVE (1) AND REINSTALL (2) WATER MAINS. SEE UTILITY PLAN
10. REMOVE ROCK WALL
11. CONTRACTOR SHALL PROTECT AND SUSPEND FIBER OPTIC DUCT BANK IN PLACE DURING CONSTRUCTION. DUCT BANKS CONSIST OF 400 PAIRS COPPER CABLE AND 11-WAY DUCT BANK IN TRANSIT PIPE. APPROXIMATE LOCATION CENTURY LINK MANHOLE 107 SHOWN. DEPTH TO CONDUIT IN VAULT APPROXIMATELY 9'. COSTS FOR SUSPENDING THE DUCT BANK SHALL BE INCLUDED IN BID ITEM A5 PROTECTION AND SUPPORT OF EXISTING UTILITIES.
12. PROTECT INTERNMENTS, MARKERS, AND CONCRETE CHANNEL
13. REMOVE CATCH BASIN
14. DECOMMISSION PIEZOMETER PER ECOLOGY REGULATIONS
15. ENTIRELY REMOVE BAMBOO THICKETS, GRUB UNTIL ALL ROOTS HAVE BEEN REMOVED
16. PROTECT SIGN OR REMOVE AND REPLACE IN KIND

PAVEMENT REMOVAL NOTES:

1. SEE POTHOLE REPORT IN APPENDIX D. ASPHALT OVER CONCRETE PAVEMENT IS APPROXIMATELY 6" TO 11" THICK. CONCRETE PANELS ARE UP TO 12" THICK.
2. CONCRETE PAVEMENT JOINT LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
3. ACTUAL QUANTITIES OF ASPHALT PAVEMENT AND ASPHALT PAVEMENT OVER CONCRETE PAVEMENT REMOVAL SHALL BE BASED ON FIELD MEASUREMENTS.

LEGEND

- REMOVE ASPHALT PAVEMENT
- REMOVE ASPHALT OVER CONCRETE PAVEMENT
- REMOVE CONCRETE SIDEWALK, CURB, AND GUTTER
- PLANING BITUMINOUS PAVEMENT
- BAMBOO REMOVAL
- SAWCUT
- HIGH VISIBILITY FENCE (DELINEATES CLEARING AND GRUBBING LIMITS)
- REMOVE ITEM
- OHW
- TEMPORARY CONSTRUCTION EASEMENT

BID SET

12/30/2020

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

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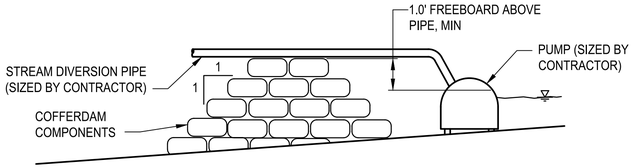
KITSAP WAY CULVERT REPLACEMENT

KITSAP WAY
SITE PREPARATION AND DEMOLITION

PN: 233-1896-153

DWG NO. **SP1**
SHEET 4 OF 18

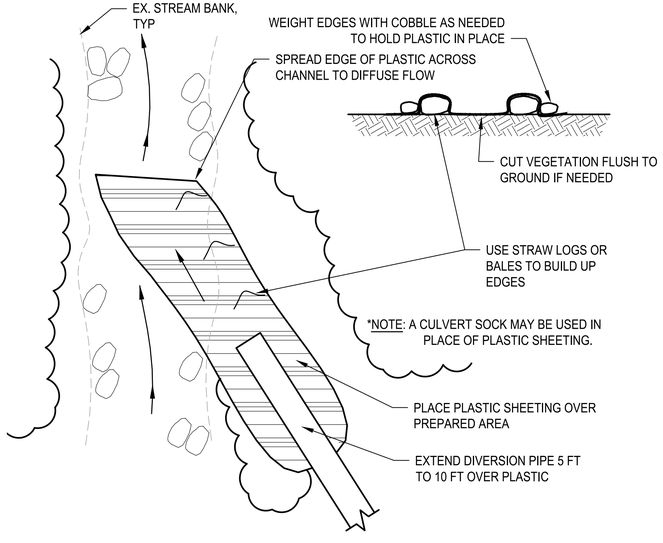


COFFERDAM NOTES:

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

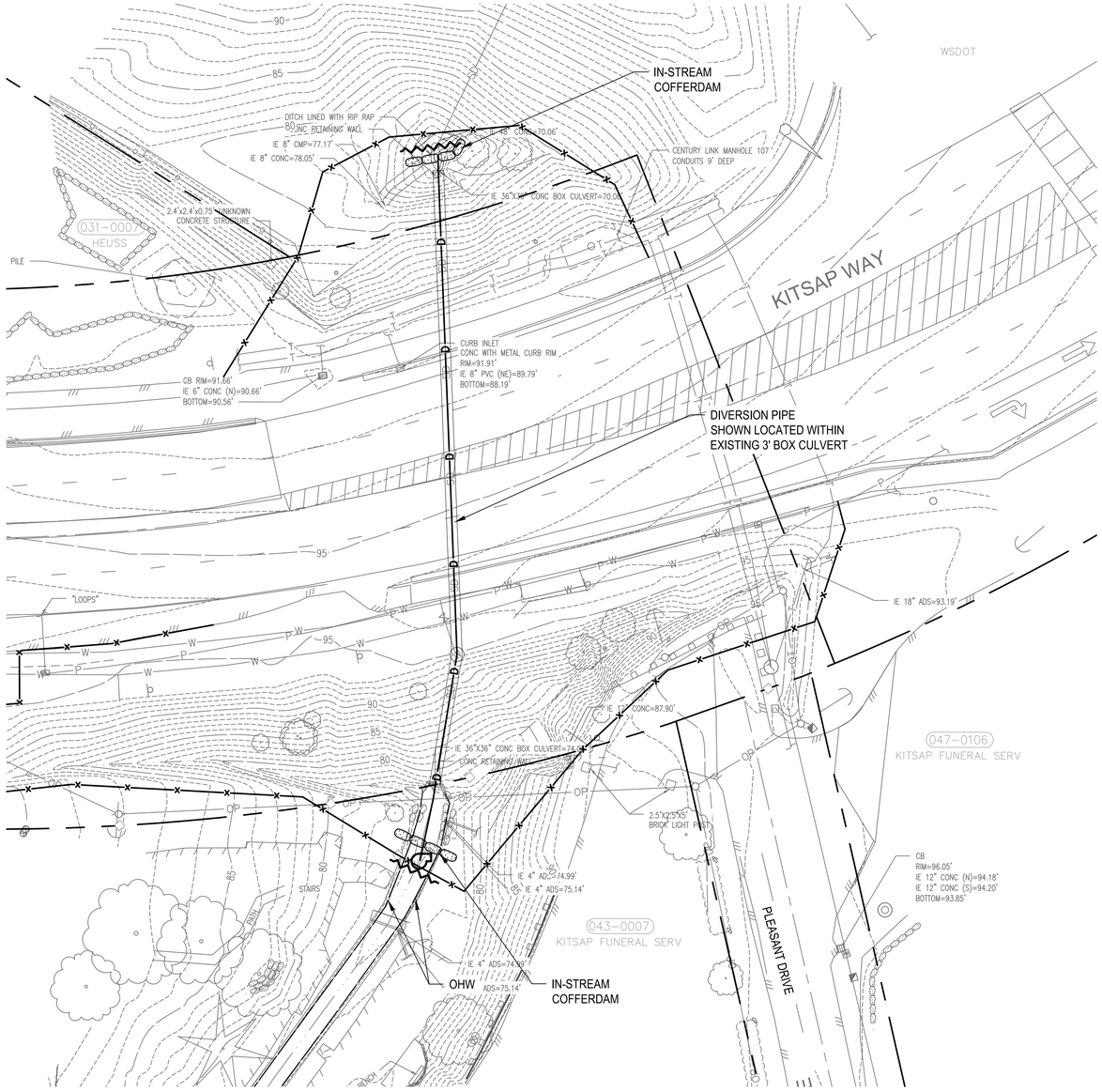
COFFERDAM DETAIL 1

NOT TO SCALE



PLASTIC SHEET OUTFALL PROTECTION DETAIL 2

NOT TO SCALE



PLAN

SCALE IN FEET

0 20 40

NOTES:

1. PROTECT BYPASS PIPE TO ALLOW VEHICLE ACCESS TO WORK AREA.
2. THE TEMPORARY STREAM DIVERSION SHOWN IS CONCEPTUAL. SEE SPECIAL PROVISIONS

FLOW CAPACITY NOTES:

1. STREAM DIVERSION SYSTEM SHALL BE CAPABLE OF CONVEYING 20 CFS, EQUIVALENT TO A 2-YEAR 24 HOUR STORM

TEMPORARY STREAM DIVERSION NOTES:

1. FISH EXCLUSION AND FISH REMOVAL SHALL BE PERFORMED BEFORE IN-WATER WORK IN ACCORDANCE WITH THE WASHINGTON DEPARTMENT OF FISH AND WILDLIFE HPA.
2. CONTRACTOR SHALL SUBMIT A TEMPORARY STREAM DIVERSION PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL WITHIN 7 DAYS OF NOTICE TO PROCEED. THE TEMPORARY DIVERSION SHOWN IN THIS PLAN IS SUGGESTED ONLY. SEE SPECIAL PROVISIONS, SECTION 6-20.
3. THE TEMPORARY STREAM DIVERSION SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
4. CONTRACTOR SHALL BE PREPARED TO PROTECT WORK SITE AND ADJACENT PROPERTIES DURING HIGHER FLOWS.
5. TEMPORARY STREAM DIVERSION PUMP WILL REQUIRE GENERATOR AND POWER. CONTRACTOR SHALL CONSIDER CONTACTING PUGET SOUND ENERGY FOR SERVICE.

LEGEND

- RIGHT-OF--WAY BOUNDARY
- EXISTING CULVERT
- OHW
- EXISTING EDGE OF PAVEMENT
- EXISTING CATCH BASIN
- SD — EXISTING STORM SEWER
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- HIGH VISIBILITY FENCE
- COFFERDAM
- FISH BLOCK NET
- STREAM DIVERSION PIPE
- STREAM DIVERSION PUMP
- TEMPORARY CONSTRUCTION EASEMENT
- OUTFALL PROTECTION

BID SET

12/30/2020

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE

HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

DRAWN BY: *R. SAYLES* DATE: *12/30/2020*

DESIGN BY: *R. SAYLES* WASH. P.E. #*58086* DATE:*12/30/2020*

CHECKED BY: *D. DINKUHN* WASH. P.E. #*35814* DATE:*12/30/2020*

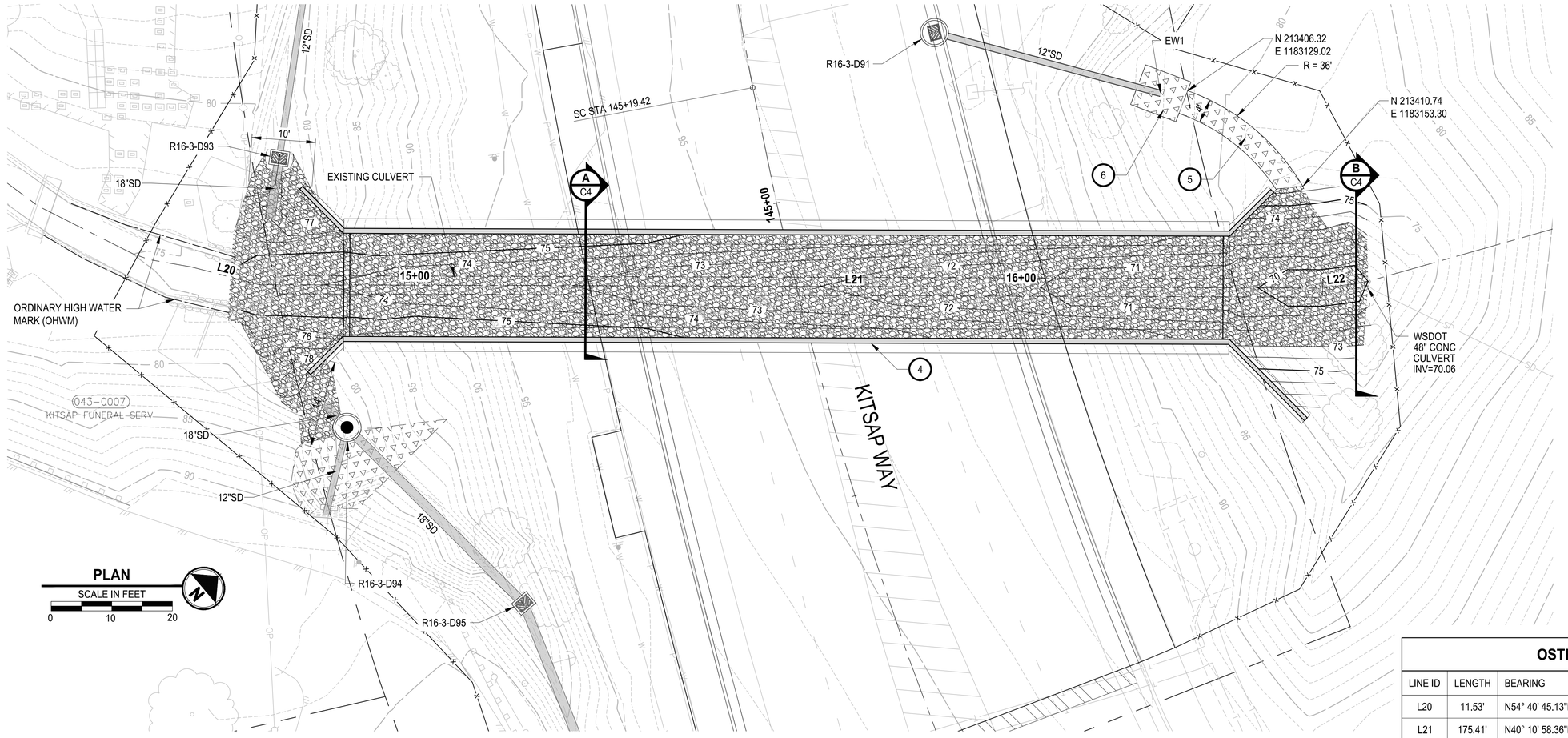
KITSAP WAY CULVERT REPLACEMENT

KITSAP WAY
STREAM DIVERSION PLAN

PN: 233-1896-153

DWG NO. **SP2**

SHEET 5 OF 18



PLAN
SCALE IN FEET
0 10 20

KEYNOTES:

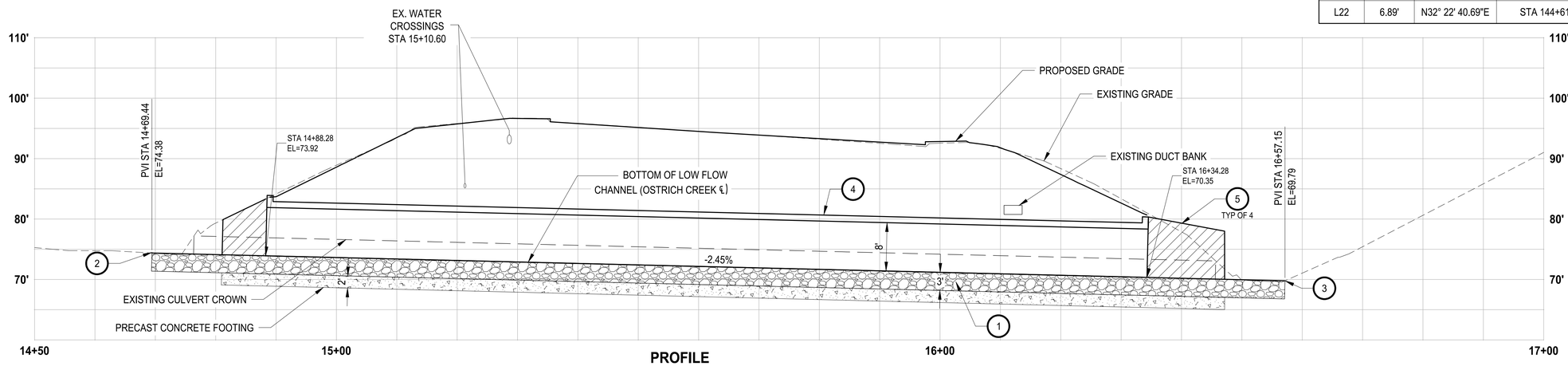
1. 3' STREAMBED AGGREGATE, SEE DETAILS A/C4 B/C4
2. BEGIN NEW STREAM CHANNEL, MATCH EXISTING
3. END NEW STREAM CHANNEL, MATCH EXISTING
4. 17' SPAN X 146' LONG X 11' RISE PRECAST CONCRETE CULVERT SEE DETAIL SHEET C5
5. 4' WIDE DRAINAGE SWALE, SEE DETAIL 1/C6
6. INLET/OUTLET PROTECTION, SEE DETAIL 6/C6

GENERAL NOTES:

1. CONSTRUCTION ACTIVITY FOR CULVERTS SHALL NOT OCCUR UNTIL FISH REMOVAL IS COMPLETED AND TEMPORARY STREAM BYPASS SYSTEM IS WORKING.
2. CULVERT AND STREAM WORK BELOW ORDINARY HIGH WATER LINE SHALL ONLY OCCUR BETWEEN JULY 15 AND OCTOBER 15 PER HPA APPROVAL CONDITIONS.

OSTRICH CREEK ℄ LINE TABLE

LINE ID	LENGTH	BEARING	START POINT STATION, OFFSET	END POINT STATION, OFFSET
L20	11.53'	N54° 40' 45.13"E	STA 145+09.25, 96.56'LT	STA 145+04.79, 86.25'LT
L21	175.41'	N40° 10' 58.36"E	STA 145+04.79, 86.25'LT	STA 144+61.36, 83.77'RT
L22	6.89'	N32° 22' 40.69"E	STA 144+61.36, 83.77'RT	STA 144+60.16, 91.13'RT



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

LEGEND:

- STREAMBED AGGREGATE
- QUARRY SPALLS
- TEMPORARY CONSTRUCTION EASEMENT

BID SET

12/30/2020

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY
SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK
DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

DRAWN BY: R. SAYLES DATE: 12/30/2020
DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE:12/30/2020
CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE:12/30/2020

KITSAP WAY CULVERT REPLACEMENT
KITSAP WAY
STREAM PLAN AND PROFILE

PN: 233-1896-153
DWG NO. C1
SHEET 6 OF 18

CONSTRUCTION NOTES:

1. BEGIN ROADWAY RESTORATION, MATCH EXISTING
2. END ROADWAY RESTORATION, MATCH EXISTING
3. 6' CEMENT CONCRETE SIDEWALK PER CITY OF BREMERTON STD DETAIL 3101
4. CEMENT CONCRETE CURB AND GUTTER TYPE A PER CITY OF BREMERTON STD DETAIL 3131
5. REPLACE STANDARD PAVEMENT MARKINGS PER CITY OF BREMERTON STD DETAIL 3265
6. CATCH BASIN WITH OIL WATER SEPARATOR PER CITY OF BREMERTON STD DETAIL 4006
7. CATCH BASIN TYPE 1 PER CITY OF BREMERTON STD DETAIL 4002
8. CULVERT PIPE BEVELED END SECTION AND TRASH RACK PER CITY OF BREMERTON STD DETAILS 4040 AND 4041
9. INSTALL SIGN PER CITY OF BREMERTON STD DETAIL 3251
10. HMA CLASS $\frac{1}{2}$ INCH PG 58H-22
11. 4' WIDE DRAINAGE SWALE, SEE DETAIL 1/C6
12. CEMENT CONCRETE CURB RAMP TYPE SINGLE DIRECTION A PER WSDOT STD PLAN F-40.16-03, SEE 2/C6 3/C6
13. CONNECT TO DRAINAGE STRUCTURE PER WSDOT STD PLAN B-60.20-02 WHERE APPLICABLE
14. CATCH BASIN TYPE 1L PER WSDOT STD PLAN B-5.40-02
15. CATCH BASIN TYPE 2 SLAB TOP PER WSDOT STD PLAN B-10.20-02
16. INLET/OUTLET PROTECTION, SEE DETAIL 6/C6

PAINT EDGE LINE NORTH					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT STATION, OFFSET	END POINT STATION, OFFSET
C15	588.44	142.55	N66° 43' 10.45"W	STA 144+04.50, 31.03'RT	STA 145+53.71, 25.36'RT

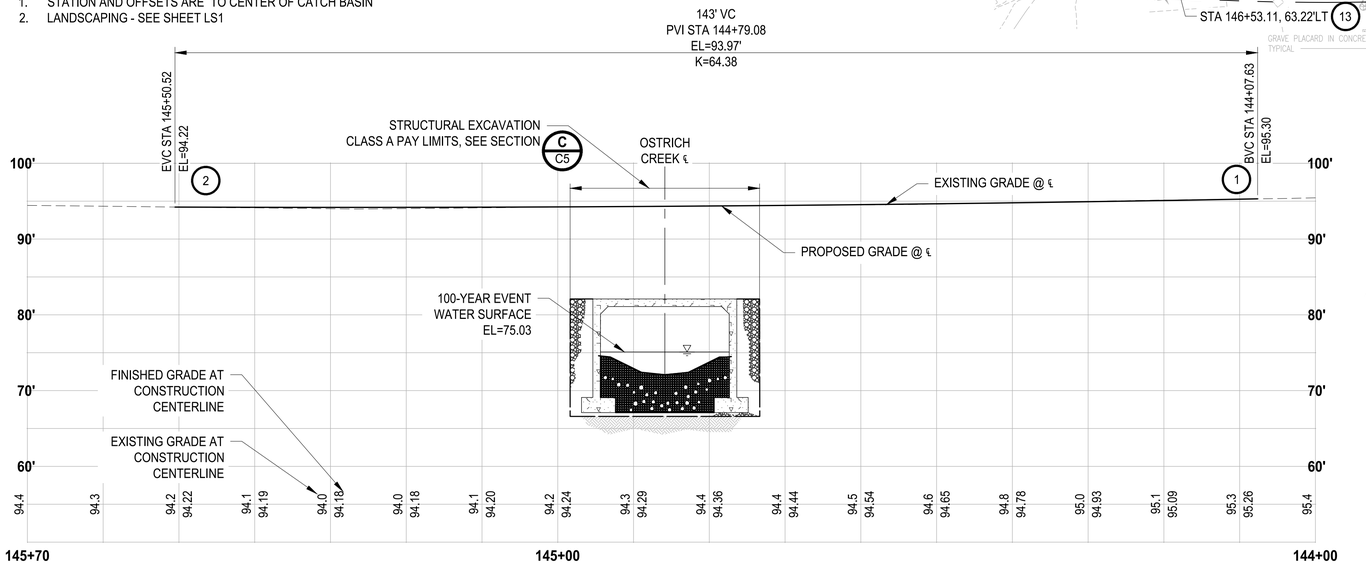
PAINT EDGE LINE SOUTH					
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT STATION, OFFSET	END POINT STATION, OFFSET
C16	1054.14	154.24	N62° 41' 56.61"W	STA 144+04.74, 26.46'LT	STA 145+53.38, 21.76'LT

SIGNING LEGEND:

OM4-1 18"X18" 1 | OM4-2 18"X18" 2 | OM4-3 18"X18" 3

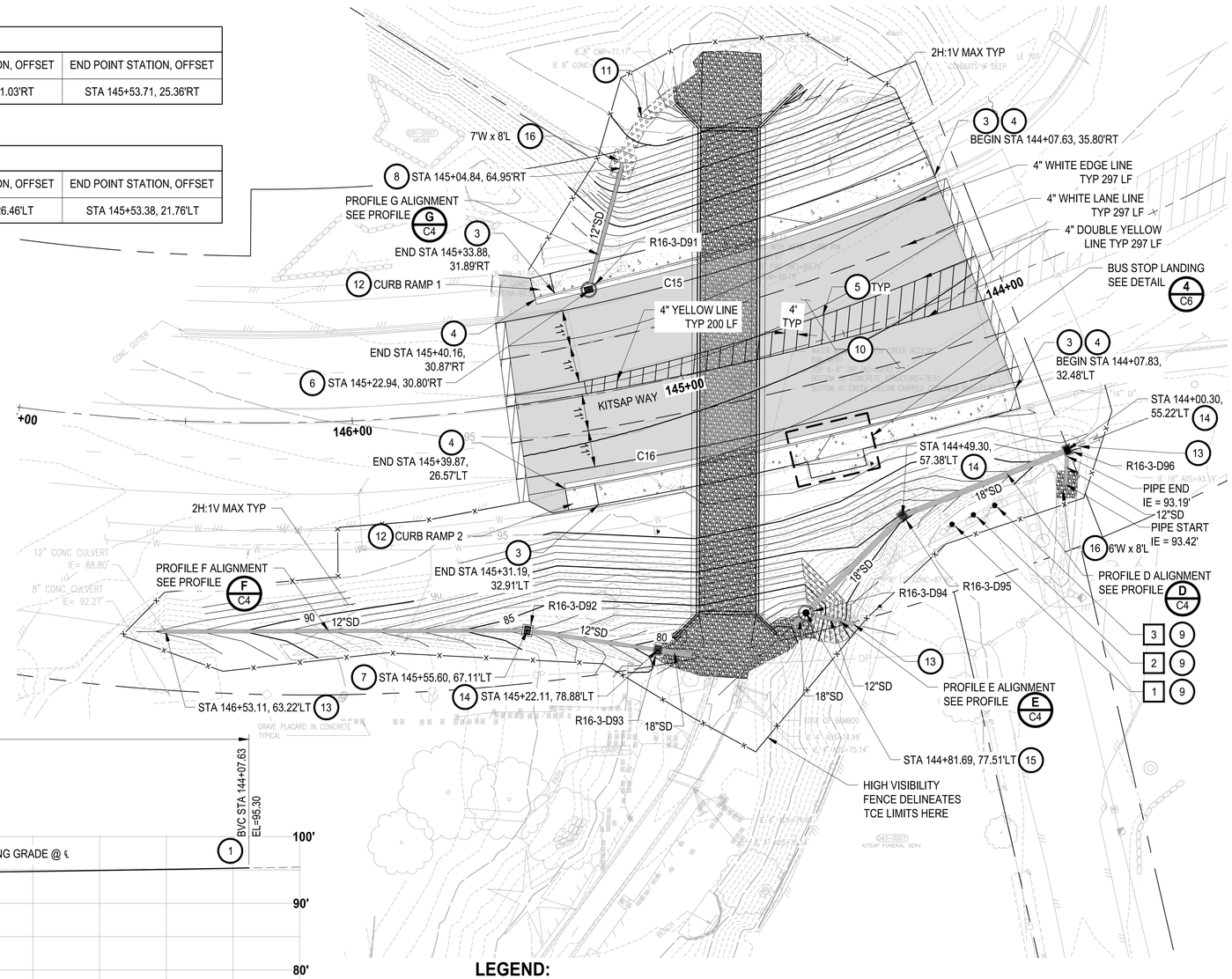
GENERAL NOTES:

1. STATION AND OFFSETS ARE TO CENTER OF CATCH BASIN
2. LANDSCAPING - SEE SHEET LS1



KITSAP WAY PROFILE

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



LEGEND:

- HMA CLASS ½" PG 58H-22
- CEMENT CONCRETE
- STREAMBED AGGREGATE
- 2" OVERLAY
- QUARRY SPALLS
- PAINT LINE
- TEMPORARY CONSTRUCTION EASEMENT

PLAN

SCALE IN FEET
0 20 40

BID SET

12/30/2020

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

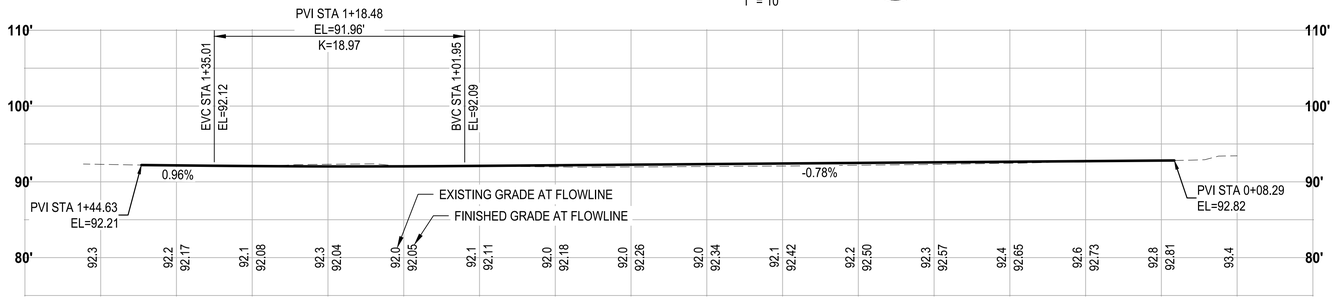
DRAWN BY: R. SAYLES DATE: 12/30/2020
DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE:12/30/2020
CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE:12/30/2020

KITSAP WAY CULVERT REPLACEMENT
KITSAP WAY
ROADWAY PLAN AND PROFILE

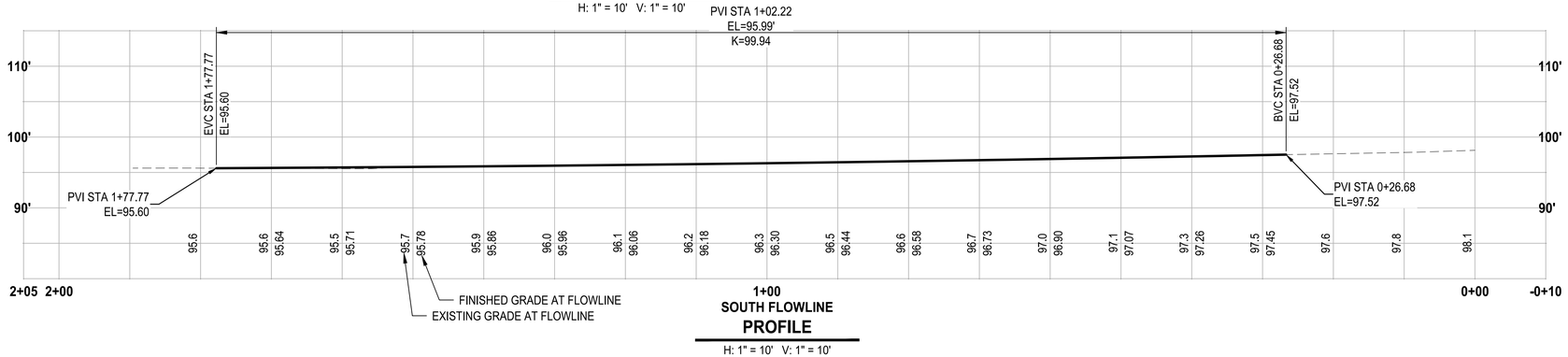
PN: 233-1896-153

DWG NO. C2
SHEET 7 OF 18

FLOWLINES
PLAN
1" = 10'



NORTH FLOWLINE
PROFILE
H: 1" = 10' V: 1" = 10'



SOUTH FLOWLINE
PROFILE
H: 1" = 10' V: 1" = 10'

FLOWLINE NORTH						
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT STATION, OFFSET	MIDPOINT STATION, OFFSET	END POINT STATION, OFFSET
C13	582.27	98.00	N68° 42' 23.14"W	143+97.93, 35.59'RT	144+49.55, 34.19'RT	145+00.82, 33.02'RT
L20		54.29	N63° 53' 05.61"W	145+00.82, 33.02'RT	145+30.07, 31.67'RT	145+58.59, 28.98'RT

FLOWLINE SOUTH						
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START POINT STATION, OFFSET	MIDPOINT STATION, OFFSET	END POINT STATION, OFFSET
L19		45.03	N64° 56' 57.93"W	143+80.81, 35.42'LT	144+02.15, 32.61'LT	144+34.89, 29.58'LT
C12	1369.88	144.54	N61° 55' 36.19"W	144+34.89, 29.58'LT	144+92.70, 26.65'LT	145+61.78, 27.30'LT

BID SET

12/30/2020

DAVID L. DINKUHN
STATE OF WASHINGTON
35814
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

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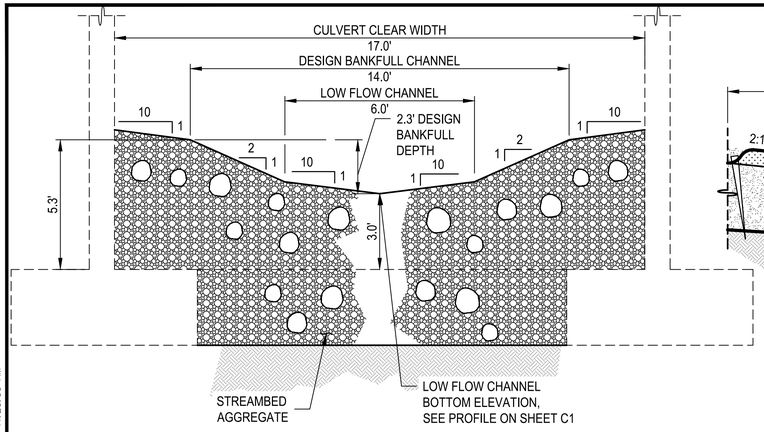
CHECKED BY: *D. DINKUHN* WASH. P.E. *#35814* DATE:*12/30/2020*

KITSAP WAY CULVERT REPLACEMENT

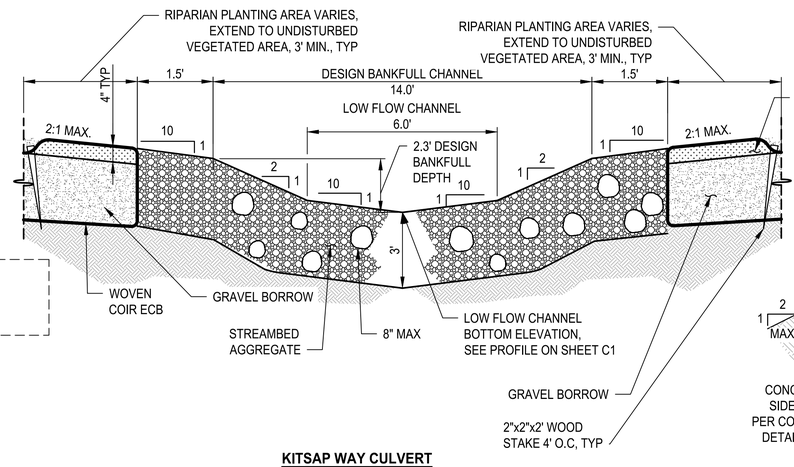
FLOWLINE PLAN AND PROFILES

PN: 233-1896-153

DWG NO. **C3**
SHEET 8 OF 18



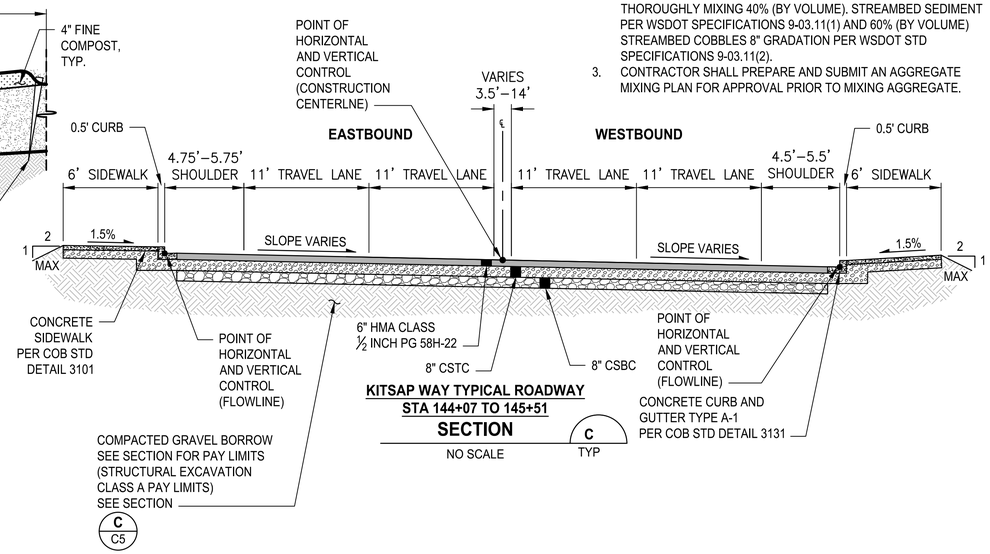
KITSAP WAY CULVERT IN CULVERT STREAM
SECTION A
NO SCALE C1



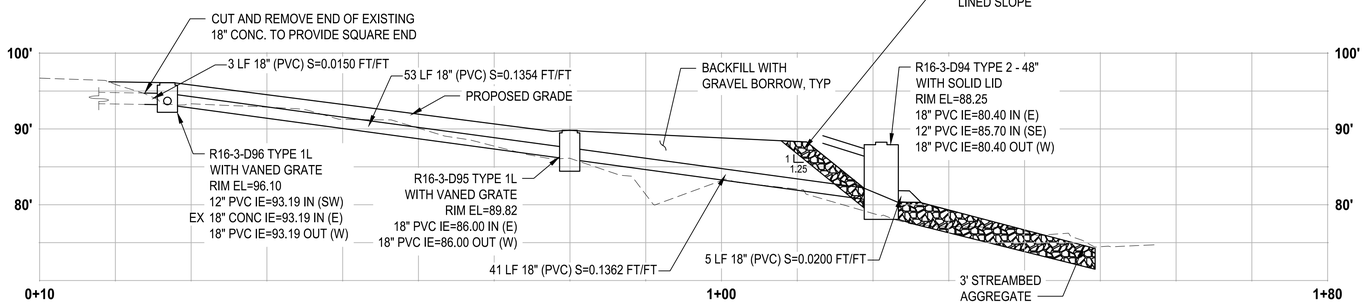
KITSAP WAY CULVERT TYPICAL STREAM
SECTION B
NO SCALE C1

STREAM AND CULVERT DETAIL NOTES:

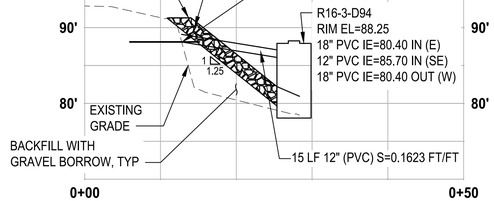
1. BURY EDGE OF COIR ECB & STAKE WITH WOOD STAKES AT 3' O.C.
2. STREAMBED AGGREGATE SHALL BE MANUFACTURED BY THOROUGHLY MIXING 40% (BY VOLUME), STREAMBED SEDIMENT PER WSDOT SPECIFICATIONS 9-03.11(1) AND 60% (BY VOLUME) STREAMBED COBBLES 8" GRADATION PER WSDOT STD SPECIFICATIONS 9-03.11(2).
3. CONTRACTOR SHALL PREPARE AND SUBMIT AN AGGREGATE MIXING PLAN FOR APPROVAL PRIOR TO MIXING AGGREGATE.



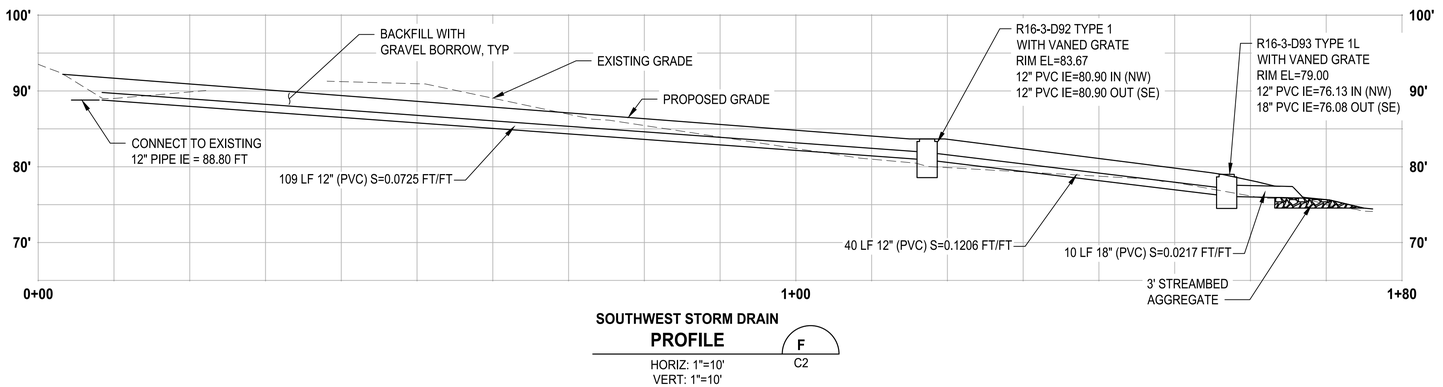
KITSAP WAY TYPICAL ROADWAY STA 144+07 TO 145+51
SECTION C
NO SCALE TYP



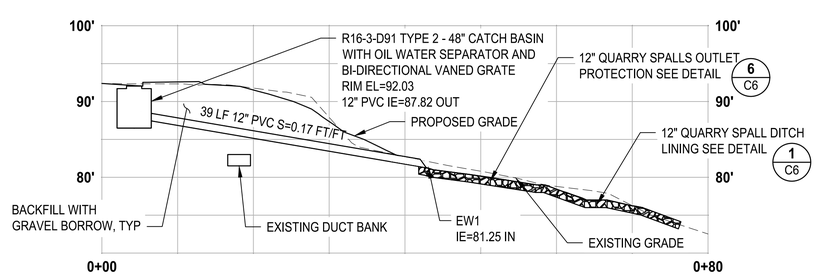
SOUTHEAST STORM DRAIN
PROFILE D
HORIZ: 1"=10'
VERT: 1"=10' C2



SOUTHEAST STORM DRAIN
PROFILE E
HORIZ: 1"=10'
VERT: 1"=10' C2



SOUTHWEST STORM DRAIN
PROFILE F
HORIZ: 1"=10'
VERT: 1"=10' C2



NORHWEST STORM DRAIN
PROFILE G
HORIZ: 1"=10'
VERT: 1"=10' C2

BID SET

12/30/2020

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

DRAWN BY: *R. SAYLES* DATE: *12/30/2020*
DESIGN BY: *R. SAYLES* WASH. P.E. *#58086* DATE:*12/30/2020*
CHECKED BY: *D. DINKUHN* WASH. P.E. *#35814* DATE:*12/30/2020*

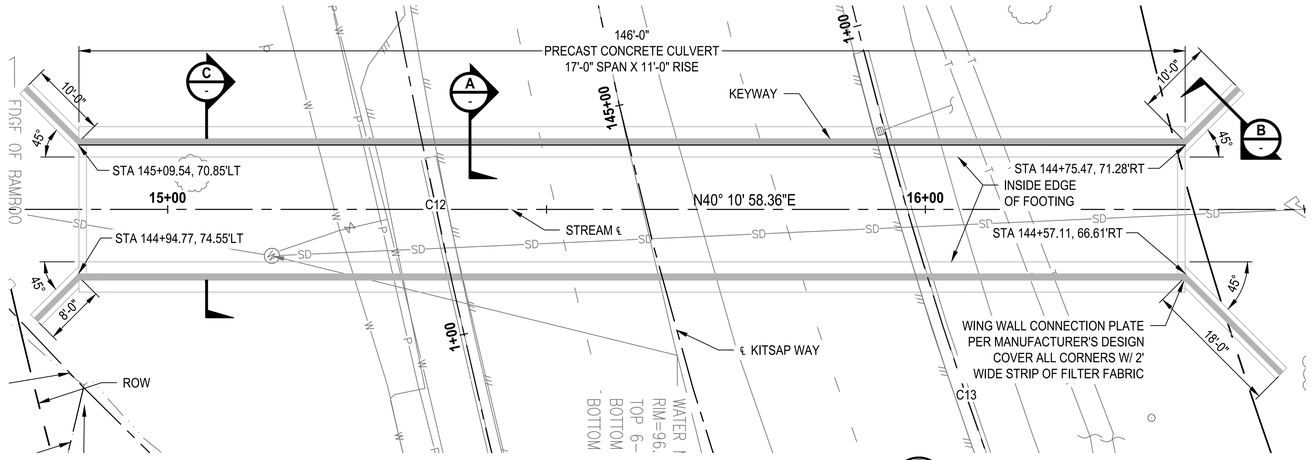
KITSAP WAY CULVERT REPLACEMENT

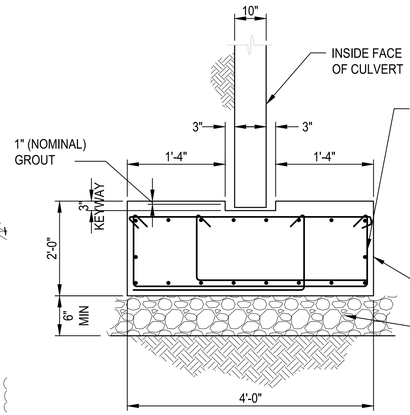
ROADWAY DETAILS, STREAM DETAILS, AND DRAINAGE PROFILES

PN: 233-1896-153

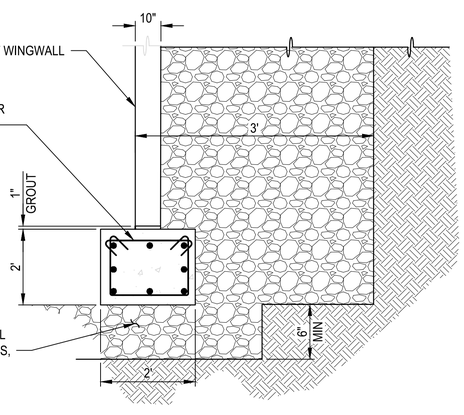
DWG NO. **C4**
SHEET 9 OF 18

FILE: P51896153-C3 LAYOUT: C4 PATH: U:\PSO\Projects\Client\1896-City of Bremerton\233-1896-153 Ostrich Creek Culvert\99Svcs\CADD\DWG\100% KITSAP WAY PLOTTED BY: OdegaardCco DATE: Wednesday, December 30, 2020 11:20:00 AM

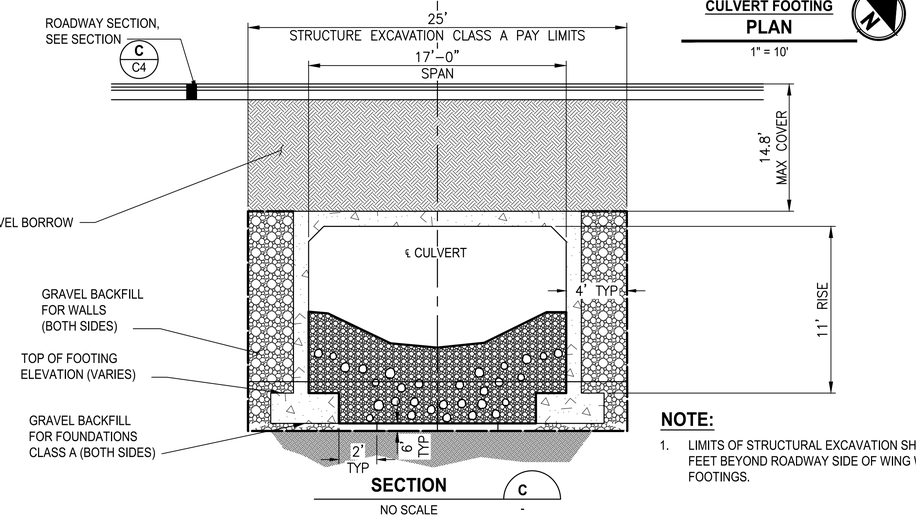




CULVERT FOOTING
SECTION A
NO SCALE



CULVERT WINGWALL FOOTINGS
SECTION B
NO SCALE

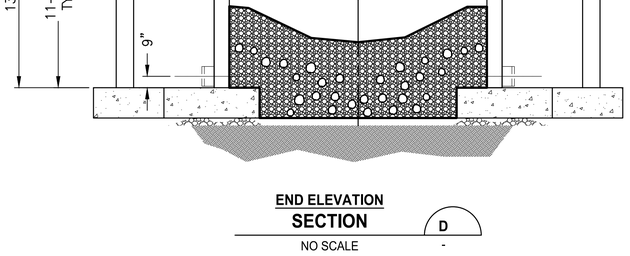


CULVERT FOOTING
PLAN
1" = 10'

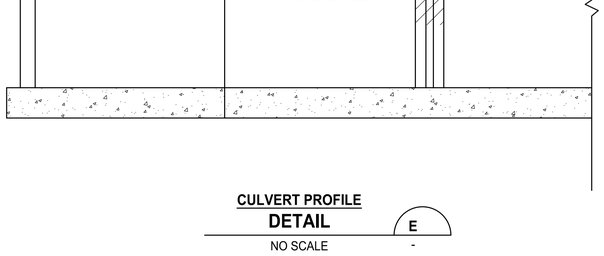
SECTION C
NO SCALE

NOTE:

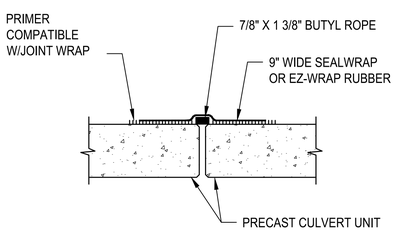
1. LIMITS OF STRUCTURAL EXCAVATION SHALL BE 3 FEET BEYOND ROADWAY SIDE OF WING WALL FOOTINGS.



END ELEVATION
SECTION D
NO SCALE



CULVERT PROFILE
DETAIL E
NO SCALE



JOINT SEAL
DETAIL F
NO SCALE

GENERAL NOTES:

1. REFER TO STRUCTURAL NOTES ON SHEET 2 FOR DESIGN, MATERIALS, AND CONSTRUCTION REQUIREMENTS.
2. ALL BACKFILL SHALL BE IMPORTED MATERIALS MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND SPECIAL USE PROVISIONS. USE OF NATIVE MATERIALS FOR BACKFILL SHALL NOT BE ALLOWED.

BID SET

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER
12/30/2020

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

DRAWN BY: *R. SAYLES* DATE: *12/30/2020*
DESIGN BY: *R. SAYLES* WASH. P.E. *#58086* DATE:*12/30/2020*
CHECKED BY: *D. DINKUHN* WASH. P.E. *#35814* DATE:*12/30/2020*

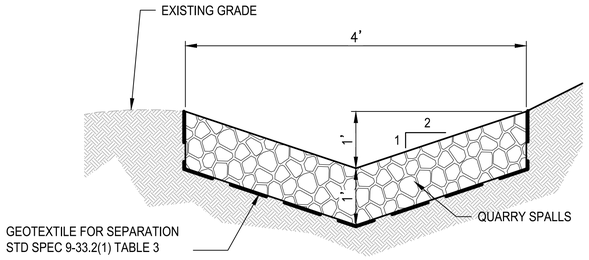
KITSAP WAY CULVERT REPLACEMENT

CULVERT DETAILS

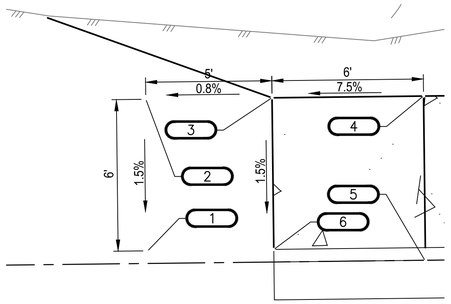
PN: 233-1896-153

DWG NO. **C5**
SHEET 10 OF 18

FILE: PS1896153-C3 LAYOUT: C5 PATH: U:\PSO\Projects\Clients\1896-CityOfBremerton\233-1896-153 Ostrich Creek Culvert\995vcs\CADD\DWG\100E KITSAP WAY PLOTTED BY: OdegaCco DATE: Wednesday, December 30, 2020 11:20:05 AM



DRAINAGE SWALE
DETAIL 1
NO SCALE — C1, C2



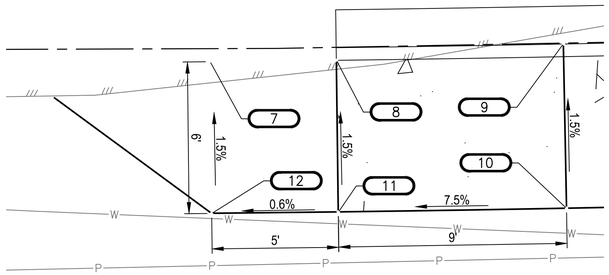
CURB RAMP 1

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
1	145+45.47	30.89' RT	92.16	FOL, TA
2	145+46.12	36.86' RT	92.25	TA, FOL
3	145+40.80	37.34' RT	92.21	FOR, TA
4	145+34.40	37.87' RT	92.66	BOR, BOW
5	145+33.84	31.39' RT	92.07	FL
6	145+40.21	31.37' RT	92.12	FOR, FOL, TA

CURB RAMP 1
DETAIL 2
NO SCALE — TYP

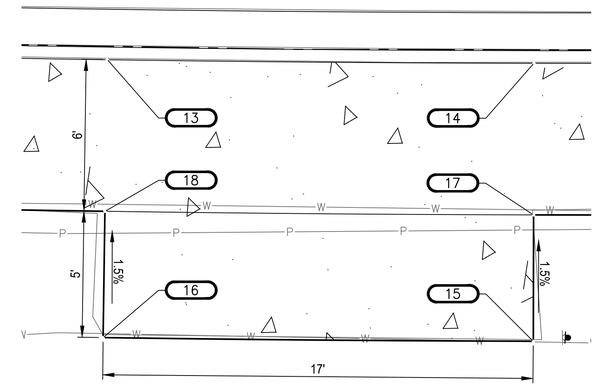
ABBREVIATIONS:

AP	ANGLE POINT
BC	BOTTOM OF CURB
BF	BEGIN FLARE
BOL	BACK OF LANDING
BOR	BACK OF RAMP
BOW	BACK OF SIDEWALK
FL	FLOWLINE
FOL	FRONT OF LANDING
FOR	FRONT OF RAMP
EX	MATCH EXISTING
TA	TOP OF ASPHALT
TC	TOP OF CURB



POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
7	145+44.63	27.18' LT	95.61	FOL, TA
8	145+39.86	27.07' LT	95.64	FOL, FOR, TA
9	145+31.27	26.41' LT	95.71	FL
10	145+31.19	32.91' LT	96.23	BOR, BOW
11	145+39.74	33.07' LT	95.73	BOL, FOR, TA
12	145+44.47	33.19' LT	95.70	BOL, TA

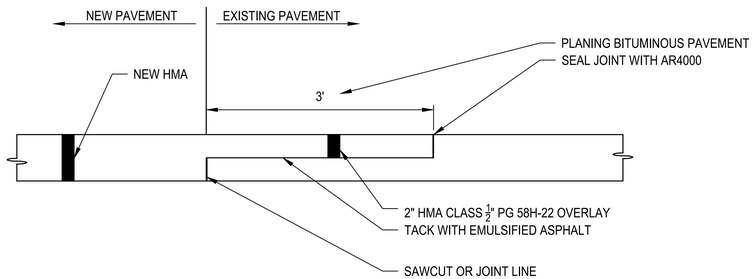
CURB RAMP 2
DETAIL 3
NO SCALE — TYP



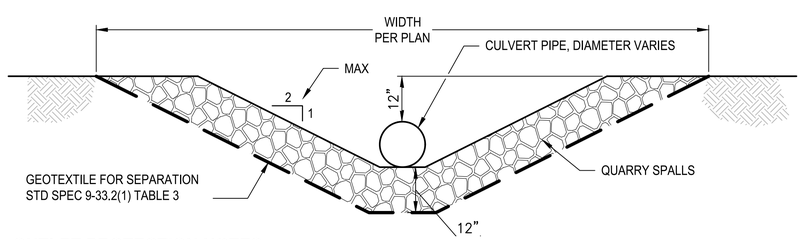
BUS STOP LANDING

POINT #	STATION	OFFSET	ELEVATION
13	144+70.33	27.94' LT	96.88
14	144+54.18	28.79' LT	97.13
15	144+54.77	39.77' LT	97.30
16	144+70.78	38.93' LT	97.04
17	144+54.50	34.78' LT	97.22
18	144+70.58	33.94' LT	96.97

BUS STOP LANDING
DETAIL 4
NO SCALE — TYP



HMA BUTT JOINT
DETAIL 5
NO SCALE — TYP



OUTLET PROTECTION NOTES:

1. TRIM PIPE END TO 45 DEGREE ANGLE
2. PLACE QUARRY SPALLS TO 12" ABOVE CROWN.

INLET/OUTLET PROTECTION
DETAIL 6
NO SCALE — C1, C2

BID SET

12/30/2020

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

DRAWN BY: *R. SAYLES*
DATE: *12/30/2020*

DESIGN BY: *R. SAYLES*
WASH. P.E. *#58086* DATE:*12/30/2020*

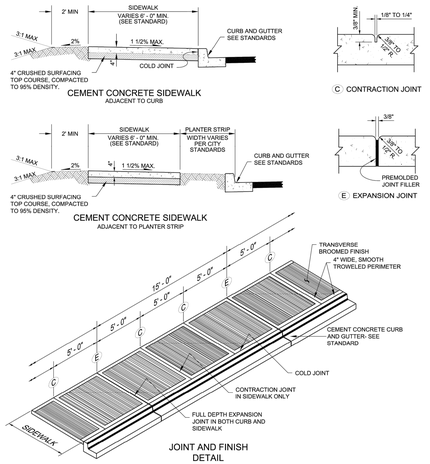
CHECKED BY: *D. DINKUHN*
WASH. P.E. *#35814* DATE:*12/30/2020*

KITSAP WAY CULVERT REPLACEMENT

MISCELLANEOUS DETAILS

PN: 233-1896-153

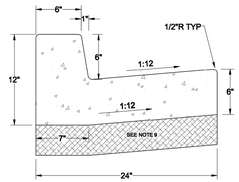
DWG NO. **C6**
SHEET 11 OF 18



NOTES:

1. SIDEWALKS THROUGH CONCRETE DRIVEWAYS SHALL BE 6" THICK.
2. SIDEWALKS SHALL BE CLASS 3000 CEMENT CONCRETE. MINIMUM SIDEWALK WIDTH IS 5.0'.
3. SEE STANDARD DRAWING 3102 FOR SPECIFIC SIDEWALK REQUIREMENTS IN DOWNTOWN ZONE.
4. FORM AND SUBGRADE INSPECTION IS REQUIRED BEFORE PLACING CONCRETE.
5. CONCRETE SIDEWALKS SHALL BE CURED FOR 72 HRS. MIN.

City of Bremerton	CONCRETE SIDEWALK DETAIL	3101
PUBLIC WORKS	NON-DOWNTOWN LOCATIONS	Revision Date
ENGINEERING DIVISION	Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.	3/3/16

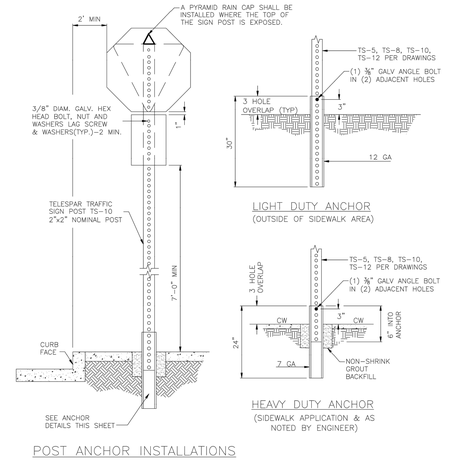


TYPICAL SECTION

NOTES

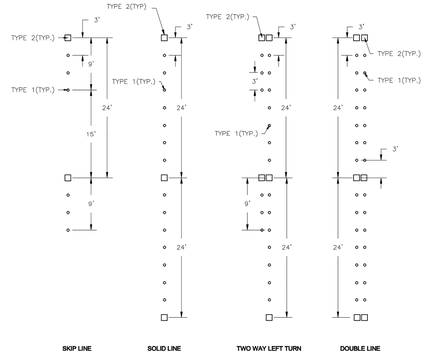
1. FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED.
2. FULL DEPTH EXPANSION JOINTS SHALL BE PLACED ON 10 FOOT CENTERS.
3. THRU JOINTS SHALL BE PLACED ADJACENT TO CATCH BASINS, INLETS AND AT POINTS OF TANGENCY ON STREETS, ALLEY AND DRIVEWAY RETURNS. MAXIMUM SPACING SHALL BE 20 FT. PRE-MOLDED JOINT FILLER SHALL BE 1/2" WIDE AND CONFORM TO AASHTO DESIGN M213.
4. ALL JOINTS SHALL BE CLEAN AND EDGED.
5. CONCRETE SHALL BE CEMENT CONCRETE, CLASS 3000.
6. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
7. FINISH SHALL BE LIGHT BROOM FINISH.
8. THE FINISHED CURB SHALL BE SPRAYED WITH A TRANSPARENT CURING COMPOUND AND COVERED BY WATERPROOF PAPER OR PLASTIC MEMBRANE IN THE EVENT OF RAIN OR OTHER UNSUITABLE WEATHER. CURING TIME SHALL BE A MINIMUM OF 72 HOURS.
9. ALL CURB AND GUTTER SHALL BE PLACED ON A MIN OF 4" COMPACTED CRUSHED SURFACING TOP COURSE.

City of Bremerton	CEMENT CONCRETE CURB AND GUTTER TYPE A	3131
PUBLIC WORKS	Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.	Revision Date
ENGINEERING DIVISION		8/15/08



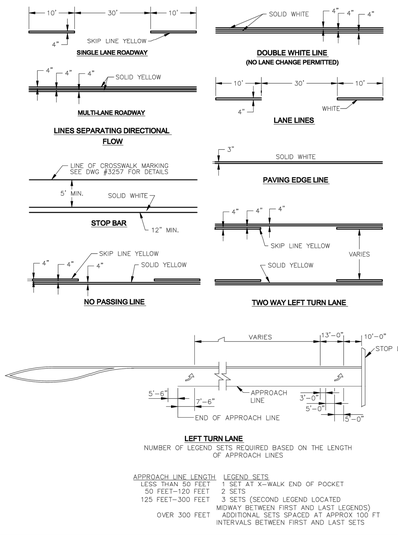
POST ANCHOR INSTALLATIONS

City of Bremerton	TYPICAL SIGN INSTALLATION	3251
PUBLIC WORKS	Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.	Revision Date
ENGINEERING DIVISION		10/12/12

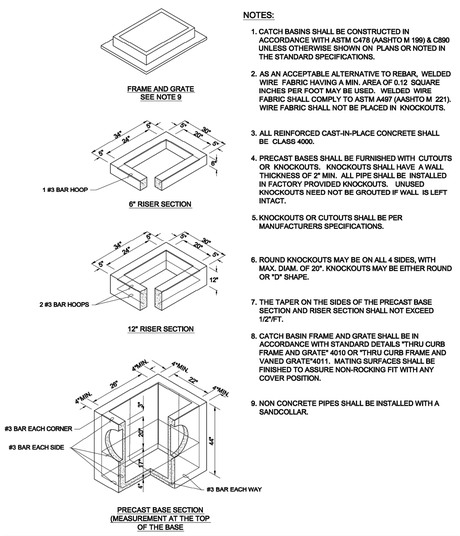


RAISED PAVEMENT MARKER LINE
N.T.S.

City of Bremerton	RAISED PAVEMENT MARK LINE CLASSIFICATION	3262
PUBLIC WORKS	Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.	Revision Date
COMMUNITY DEVELOPMENT		10-12-12



City of Bremerton	STANDARD PAVEMENT MARKINGS	3265
PUBLIC WORKS	Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.	Revision Date
COMMUNITY DEVELOPMENT		10/12/12



NOTES:

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. 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" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
5. KNOCKOUTS OR CUTOUTS SHALL BE PER MANUFACTURERS SPECIFICATIONS.
6. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIAM. 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"/FT.
8. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD DETAILS "THRU CURB FRAME AND GRATE" 4010 OR "THRU CURB FRAME AND VANED GRATE"4011. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
9. NON CONCRETE PIPES SHALL BE INSTALLED WITH A SANDCOLLAR.

City of Bremerton	CATCH BASIN TYPE I	4002
PUBLIC WORKS	Alteration of this drawing is prohibited. Any approval of an altered drawing is unauthorized and void.	Revision Date
DESIGN/CONSTRUCTION STANDARDS		3/2/07

BID SET

12/30/2020

DAVID L. DINKUHN
STATE OF WASHINGTON
35814
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

DRAWN BY: *R. SAYLES*
DATE: *12/30/2020*

DESIGN BY: *R. SAYLES*
WASH. P.E. *#58086* DATE:*12/30/2020*

CHECKED BY: *D. DINKUHN*
WASH. P.E. *#35814* DATE:*12/30/2020*

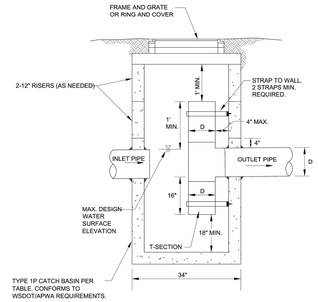
KITSAP WAY CULVERT REPLACEMENT

CITY OF BREMERTON STANDARD DETAILS

P/N: 233-1896-153

DWG NO.
D1
SHEET
12
OF
18

FILE: PS1896153-D1 LAYOUT: D1 PATH: U:\PSO\Projects\Clients\1896-City\OfBremerton\233-1896-153 Ostrich Creek Culvert\99Svcs\CADD\DWG\100% KITSAP WAY PLOTTED BY: OdegoCoo DATE: Wednesday, December 30, 2020 4:13:06 PM



NOTES:

1. MIN. OUTLET PIPE DIAMETER IS 12".
2. ALL METAL PARTS AND SURFACES MUST BE MADE OF CORROSION RESISTANT MATERIAL OR GALVANIZED.
3. DIMENSION "D" IS NOMINAL DIAMETER OF OUTLET PIPE.

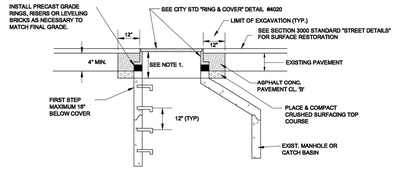
OUTLET PIPE DIAM.	STRUCTURE TYPE
≤ 12"	TYPE 2 CB-48"
≤ 18"	TYPE 2 CB-54"

City of Bremerton — PUBLIC WORKS — DESIGN/CONSTRUCTION STANDARDS

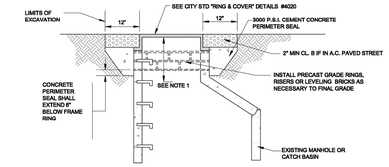
CATCH BASIN WITH OIL/WATER SEPARATOR

4006

Revision Date 12/22/15



PAVED AREAS
NTS



UNPAVED AREAS
NTS

NOTES:

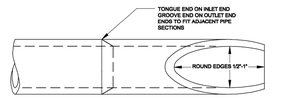
1. WHERE DEPTH OF NECK EXCEEDS 24 INCHES, ADJUST MANHOLE/CATCH BASIN TO GRADE BY INSERTING NEW CONCRETE RISER SECTION(S) BETWEEN THE CONE/SLAB AND EXISTING BARREL.
2. RISER SECTIONS AND BRICK SHALL BE CONCRETE, GROUTED WITH 3/4" THICK NON-SHRINK GROUT SMOOTH INSIDE AND OUT.
3. STEPS OR HAND HOLDS SHALL BE ADDED AS NEEDED.
4. PRECAST GRADE RINGS AND RISERS MUST BE CAST WITH GROOVE TO ALLOW FIELD INSTALLATION OF SAFETY STEP.
5. REPLACE EXISTING RING AND COVER IF NON-STANDARD.

City of Bremerton — PUBLIC WORKS — DESIGN/CONSTRUCTION STANDARDS

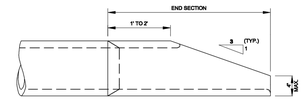
RING AND COVER INSTALLATION

4021

Revision Date 2/5/07

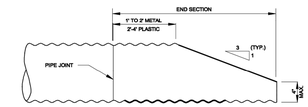


PLAN
NTS



ELEVATION
NTS

CONCRETE PIPE



ELEVATION
NTS

METAL & THERMO-PLASTIC PIPE

NOTE:

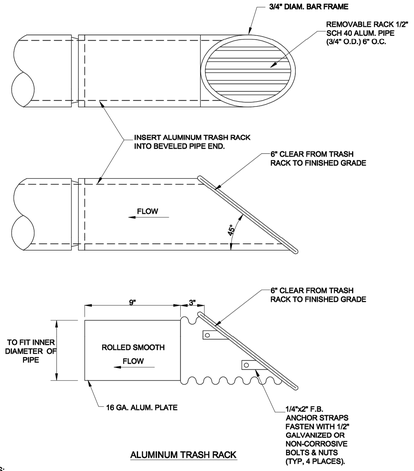
SIDE SLOPE SHALL BE WARPED TO MATCH THE BEVELED PIPE END. WHEN CULVERT IS ON SKEW, BEVELED END SHALL BE ROTATED TO CONFORM TO SLOPE. IF SLOPE DIFFERS FROM 3:1, PIPE SHALL BE BEVELED TO MATCH SLOPE.

City of Bremerton — PUBLIC WORKS — DESIGN/CONSTRUCTION STANDARDS

CULVERT PIPE BEVELED END SECTION

4040

Revision Date 7/9/07



ALUMINUM TRASH RACK

NOTES:

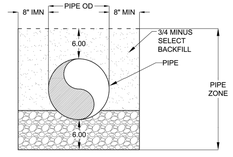
1. ALL STEEL PARTS MUST BE GALVANIZED & ASPHALT COATED (TREATMENT 1 OR BETTER).
2. CONTRACTOR TO VERIFY DIMENSIONS.

City of Bremerton — PUBLIC WORKS — DESIGN/CONSTRUCTION STANDARDS

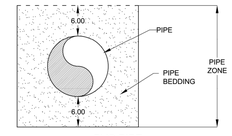
TRASH RACK

4041

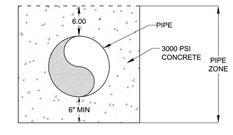
Revision Date 3/2/07



CONCRETE & DUCTILE PIPE



PVC PIPE



CONCRETE ENCASEMENT

NOTE:

1) CONCRETE PIPE SHALL BE BEDDED TO SPRING LINE.

2) PIPE SHALL BE BEDDED AND INSTALLED PER WSDOT STANDARD SPECIFICATIONS SECTION 7-08.

PIPE BEDDING

WHEN PIPE BEDDING IS REQUIRED, REFERENCE WSDOT 9-03.12.3

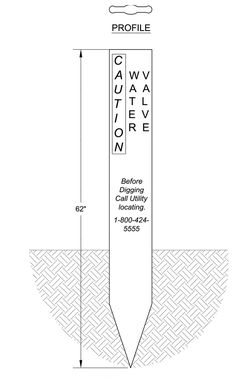
COMPACTION IN PIPE ZONE SHALL BE 90% OF MAXIMUM DENSITY. LOOSE LAYERS OF 6" OR LESS SHALL BE CAREFULLY COMPACTED. BACKFILL SHALL BE BROUGHT UP SIMULTANEOUSLY ON EACH SIDE OF PIPE TO TOP OF PIPE ZONE.

City of Bremerton — PUBLIC WORKS — DESIGN/CONSTRUCTION STANDARDS

STORMWATER PIPE ZONE DETAIL

4081

Revision Date 10/06/15



VALVE MARKER POST
N.T.S.

NOTES:

1. VALVE MARKER POST TO BE 62" BLUE CARSONITE STYLE UTILITY MARKER, JMI-375 OR APPROVED EQUAL WITH CUSTOM DECAL AS SHOWN.
2. VALVE MARKER POST SHALL FACE THE VALVE.
3. VALVE MARKER POST WILL BE USED FOR ALL VALVES OUTSIDE PAVED AREA
4. SOIL ANCHORS WITH HARDWARE MAY BE REQUIRED ON SOME APPLICATIONS.

City of Bremerton — PUBLIC WORKS — DESIGN/CONSTRUCTION STANDARDS

VALVE MARKER POST

5082

Revision Date 9/15/14

BID SET

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

12/30/2020

REVISIONS NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

DRAWN BY: R. SAYLES DATE: 12/30/2020

DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE: 12/30/2020

CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE: 12/30/2020

KITSAP WAY CULVERT REPLACEMENT

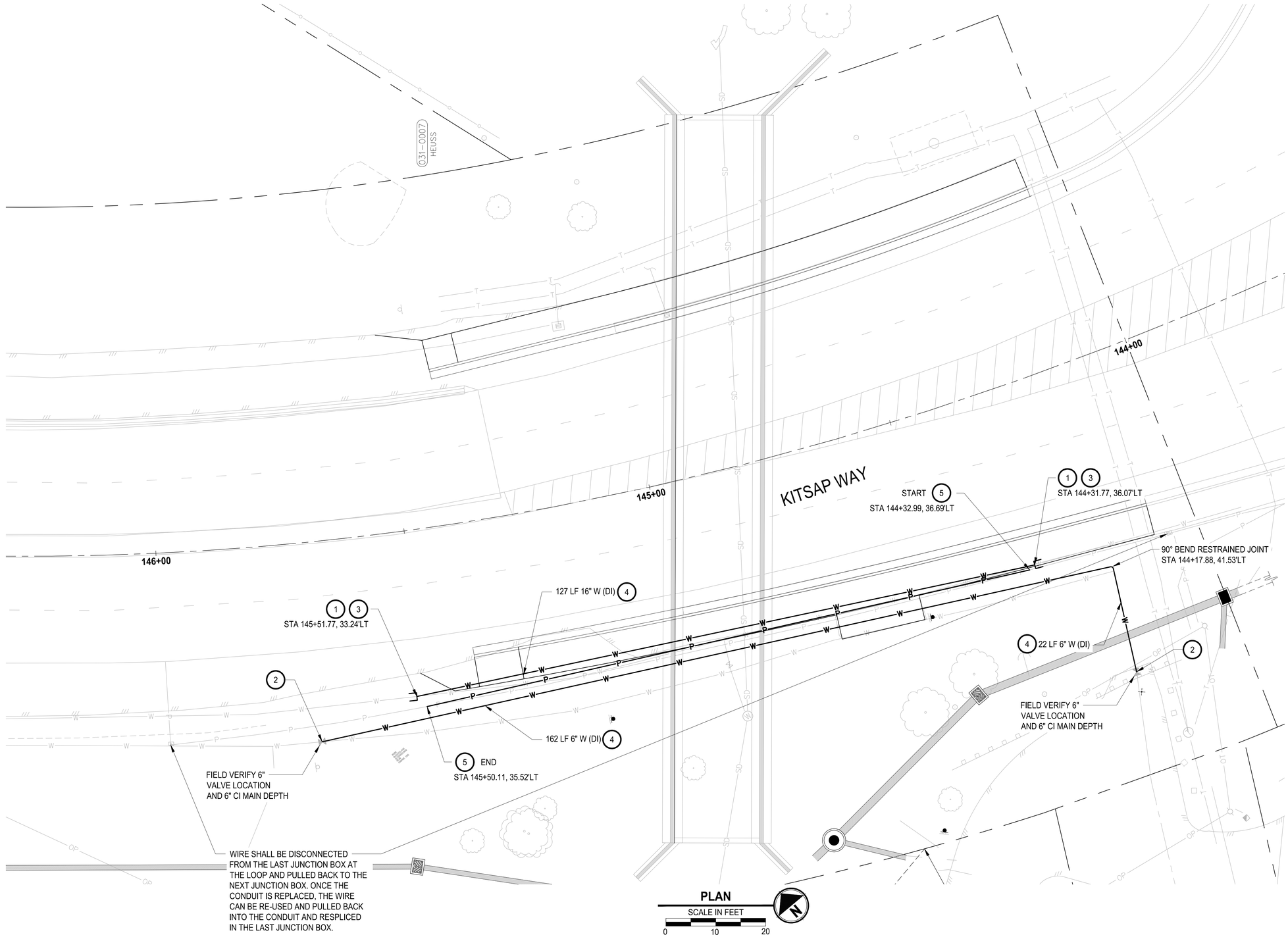
CITY OF BREMERTON STANDARD DETAILS

PN: 233-1896-153

DWG NO. D2

SHEET 13 OF 18

FILE: PS1896153-D1 LAYOUT: D2 PATH: U:\PSO\Projects\Clients\1896-City\OfBremerton\233-1896-153 Ostrich Creek Culvert\99Svcs\CADD\DWG\100% KITSAP WAY PLOTTED BY: OdegoCco DATE: Wednesday, December 30, 2020 4:13:50 PM



PLAN

SCALE IN FEET

0 10 20

CONSTRUCTION NOTES:

1. 16"x2" DI RESTRAINED CAP WITH 2" BRASS BALL VALVE AND 15' VENT HOSE TO SURFACE. PROTECT VENT HOSE
2. VALVE MARKER POST PER COB STANDARD DETAIL 5082
3. INSTALL TEMPORARY TIE BACK THRUST BLOCK USING ECOLOGY BLOCKS OR SIMILAR
4. CLASS 52 DUCTILE IRON WATER MAIN RESTRAINED JOINT
5. 1 1/2" SCHED 40 PVC CONDUIT

GENERAL NOTES:

1. CONTRACTOR SHALL CONTACT CITY OF BREMERTON WATER PUBLIC WORKS PRIOR TO WORK ON WATER MAIN
2. ALL WORK ON WATER MAIN SHALL MEET CITY OF BREMERTON STANDARDS AND NO WORK SHALL BE ALLOWED WITHOUT APPROVAL FROM THE ENGINEER.
3. WATER LINE PIPE TRENCH SHALL BE IN ACCORDANCE WITH CITY OF BREMERTON STANDARD DETAILS.
4. CONTRACTOR SHALL POTHOLE AND VERIFY DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. POTHOLES TO BE PAID UNDER BID ITEM.

CONSTRUCTION SEQUENCE:

1. CLOSE EXISTING 16" DI VALVES AT AUTOCENTER WAY AND LAKE HURST DRIVE.
2. DRAIN USING EXISTING 4" AIR GAP VALVE. CONTRACTOR SHALL BE AWARE THAT DRAIN DOWN MAY TAKE MULTIPLE DAYS.
3. CUT AND CAP 16" DI. CONTRACTOR SHALL ALLOW ACCESS AND ALL NEEDED TIME FOR CITY TO CHECK 16" VALVES FOR LEAKAGE.
4. INSTALL 16" DI WATER MAIN AND 6" DI WATER MAIN AND FOLLOW DISINFECTION PROCEDURES PER SPECIAL PROVISIONS.

BID SET

12/30/2020

DAVID L. DINKUHN
STATE OF WASHINGTON
35814
REGISTERED
PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON
CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

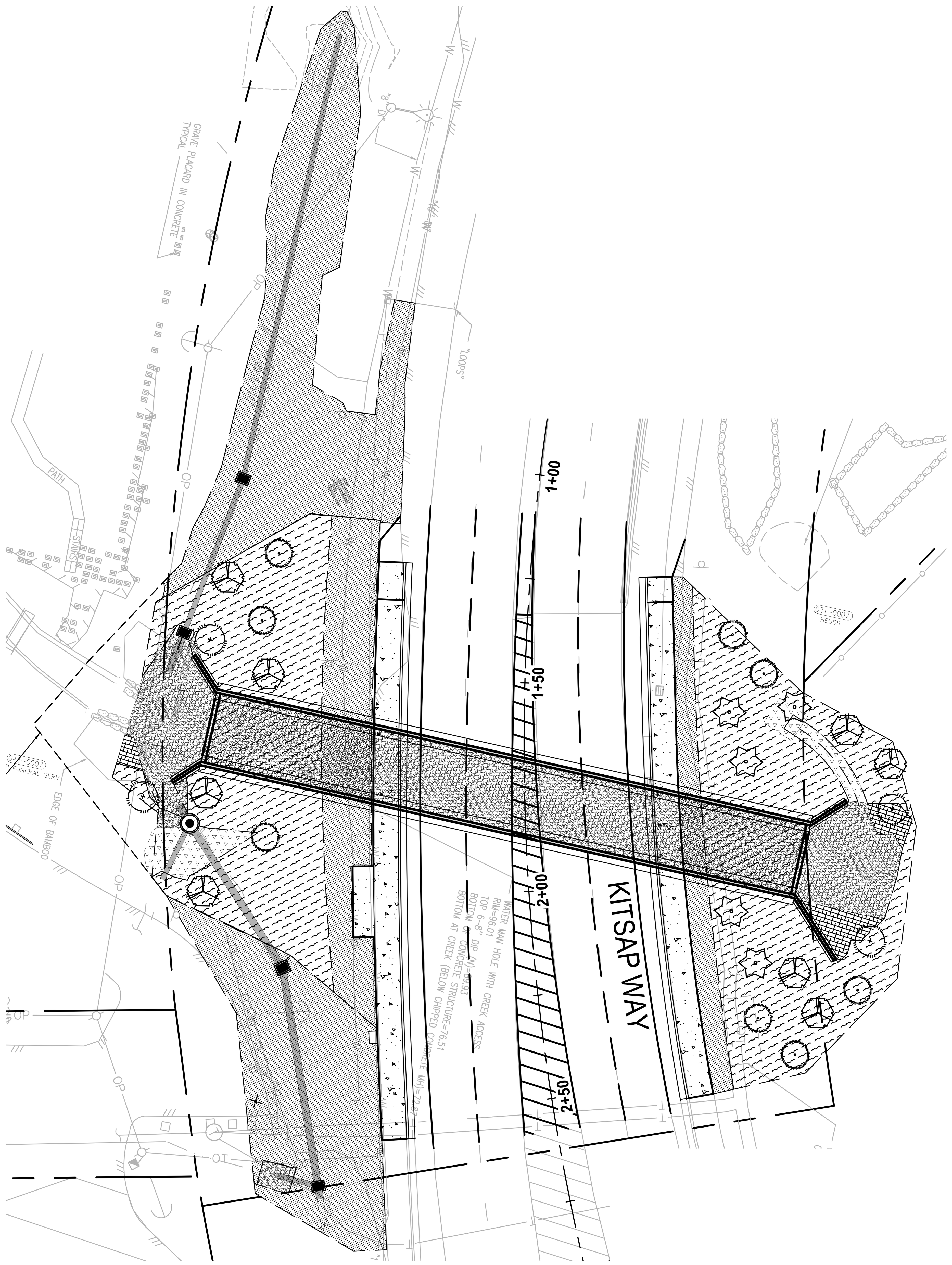
DRAWN BY: R. SAYLES DATE: 12/30/2020
DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE:12/30/2020
CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE:12/30/2020

KITSAP WAY CULVERT REPLACEMENT
KITSAP WAY
UTILITY PLAN

PN: 233-1896-153

DWG NO.
UT1
SHEET 14 OF 18

FILE: PS1896153-UT LAYOUT: UT1 PATH: U:\PSO\Projects\Clients\1896-CityOfBremerton\233-1896-153 Ostrich Creek Culvert\99scs\CADD\DWG\100% KITSAP WAY PLOTTED BY: OdegaCoo DATE: Wednesday, December 30, 2020 11:30:49 AM



PLAN

SCALE IN FEET

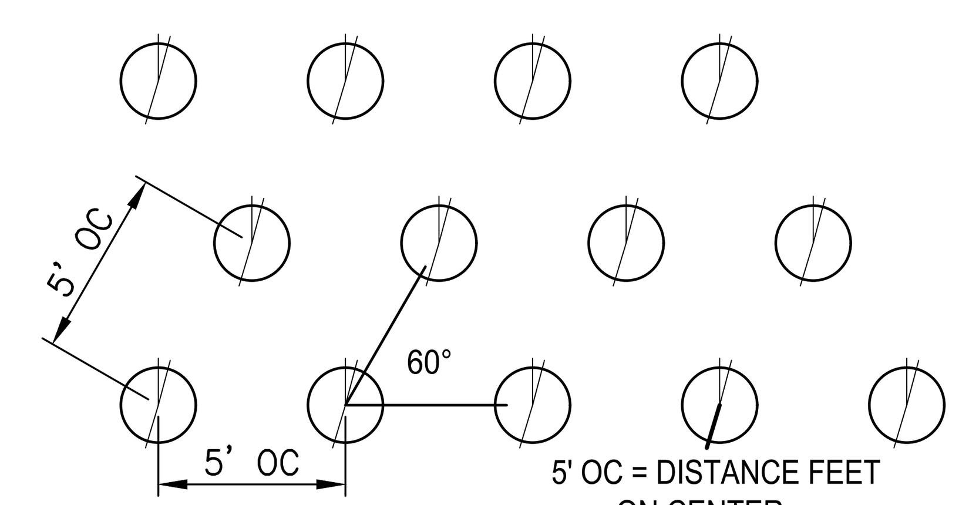
0 20 40

KITSAP WAY PLANTING SCHEDULE:

	BOTANICAL NAME	COMMON NAME	QTY	SIZE & CONDITION	SPACING
TREE					
	ACER MACROPHYLLUM	BIG LEAF MAPLE	8	5 GAL. CONT. OR B&B	PER PLAN
	FRANGULA PURSHIANA	CASCARA	8	5 GAL. CONT. OR B&B	PER PLAN
	PINUS CONTORTA VAR CONTORTA	SHORE PINE	5	5 GAL. CONT. OR B&B	PER PLAN
	SALIX SCOULERIANA	SCOULERS WILLOW	4	5 GAL. CONT. OR B&B	PER PLAN
RIPARIAN BUFFER PLANTING AREA SHRUBS - SEE SPACING DETAIL THIS SHEET					
	CORNUS SERICEA	RED-OSIER DOGWOOD	8	1 GAL.	5' O.C.
	ROSA NUTKANA	NOOTKA ROSE	8	1 GAL.	5' O.C.
	SYMPHORICARPOS ALBUS	SNOWBERRY	8	1 GAL.	5' O.C.
UPLAND BUFFER PLANTING AREA SHRUBS - SEE SPACING DETAIL THIS SHEET					
	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	108	1 GAL.	5' O.C.
	ROSA NUTKANA	NOOTKA ROSE	107	1 GAL.	5' O.C.
	SYMPHORICARPOS ALBUS	SNOWBERRY	108	1 GAL.	5' O.C.
	HYDROSEED				

PLANTING NOTES:

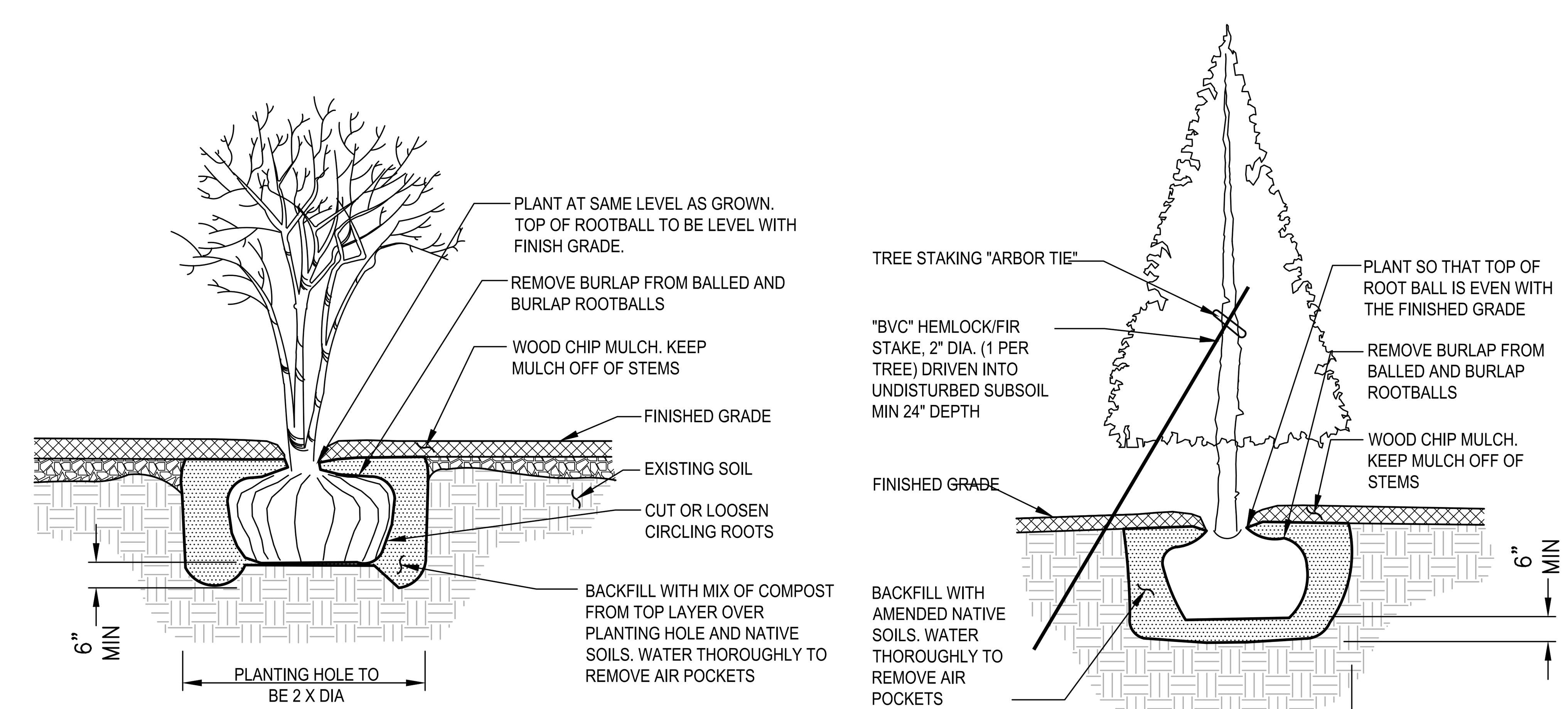
1. CONTRACTOR SHALL ARRANGE TO MEET ON SITE WITH THE ENGINEER TO DISCUSS LIMITS OF WORK AND METHODS. CONSTRUCTION ACTIVITIES SHALL NOT COMMENCE UNTIL ACCESS, LIMITS OF WORK, AND METHODS ARE APPROVED. ALL SAFETY FENCING AND TESC MEASURES MUST BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
2. PLANTING PLANS REPRESENT A CONCEPTUAL PLANT LAYOUT. FINAL PLANT LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO PLANTING.
3. AMEND ALL PLANTING AREA SOILS AND HYDROSEED AREAS WITH 3" SOIL AMENDMENT. TILL SOIL AMENDMENT 10" INTO GRADE. SOIL AMENDMENT SHALL BE FINE COMPOST.
4. ALL PLANTS SHALL BE NURSERY GROWN A MINIMUM OF ONE YEAR. PLANT MATERIAL IS TO BE SUPPLIED BY COMMERCIAL NURSERIES. PLANT SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND EXCESS SOIL OCCASIONED BY THIS PROJECT.
6. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
7. ALL DIMENSIONS FOR LISTED HEIGHT, LENGTH AND CONTAINER SIZE ARE MINIMUM REQUIREMENTS.
8. EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AND SEEDED.
9. DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH EFFECTED WORK.
10. STAKE ALL TREES THAT ARE 3' AND TALLER.
11. PLACE 3" DEPTH WOOD CHIP MULCH OVER ALL PLANTING AREAS ABOVE OHW AND AREAS WITHIN THE CG LIMITS WHERE PLANTING IS SHOWN.
12. HYDROSEED LANDSCAPING SEED MIX WITH 70 PERCENT PERENNIAL RYE BLEND AND 30 PERCENT CHEWINGS AND RED FESCUE BLEND APPLIED AT A RATE OF 180 POUNDS PER ACRE. MULCH SHALL BE APPLIED AT A RATE OF 1,500 POUNDS PER ACRE WITH 3 PERCENT TACKIFIER.



TYPICAL PLANT SPACING

DETAIL 2

NO SCALE -

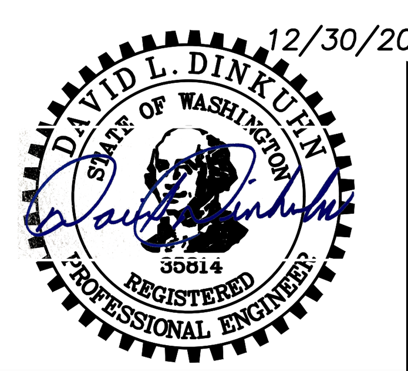


TREE & SHRUB PLANTING

DETAIL 1

NO SCALE -

BID SET



12/30/2020

NO	REVISIONS DESCRIPTION	DATE	BY

0 1" 2"

TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE

HORIZ. *AS NOTED* VERT. *AS NOTED*

FIELD BOOK

DRAWING NO.

CITY OF BREMERTON

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

DRAWN BY: *R. SAYLES*
DATE: *12/30/2020*

DESIGN BY: *R. SAYLES*
WASH. P.E. *#58086* DATE:*12/30/2020*

CHECKED BY: *D. DINKUHN*
WASH. P.E. *#35814* DATE:*12/30/2020*

KITSAP WAY CULVERT REPLACEMENT

KITSAP WAY

LANDSCAPE PLAN AND PLANTING SCHEDULE

PN: 233-1896-153

DWG NO. **LS1**

SHEET 15 OF 18

12/30/2020

NOTES:

1. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL MEETING THE MINIMUM REQUIREMENTS SHOWN HERE. SEE SPECIAL PROVISIONS.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS AT ALL TIMES.
3. CHANNELIZATION DEVICE SPACING SHALL BE 15 FT O.C. MAX.
4. TEMPORARY PEDESTRIAN PATHS SHALL BE COMPACTED CSTC, MIN 5' WIDE, AND HAVE A MAX CROSS SLOPE OF 1.5%
5. PCMS USAGE WILL BEGIN TWO WEEKS PRIOR TO LANE CLOSURES AND REMAIN IN OPERATION UNTIL PHYSICAL COMPLETION. MESSAGES NEED TO BE COORDINATED WITH AND APPROVED BY THE ENGINEER

SYMBOL LEGEND:

- DIRECTION OF TRAVEL
- TEMPORARY RETAINING BLOCK WALL WITH CONCRETE TRAFFIC BARRIER
- WORK AREA
- TRAFFIC CONTROL DRUM FOR NIGHT TIME USE, 15' OC SPACING
- SIGN
- TEMPORARY TYPE 2 CONCRETE BARRIER
- TEMPORARY RRFB SEE SPECIAL PROVISIONS
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY 4" PAINT LINE
- TEMPORARY RPMS SOLID LINE
- TYPE 3 BARRICADE
- TEMPORARY PEDESTRIAN CROSSWALK MARKINGS PER CITY OF BREMERTON STD DETAIL 3257

SIGN KEY:

1. ROAD WORK AHEAD — W20-1 48"x48"
2. W21-1 48"x48"
3. RIGHT LANE CLOSED AHEAD — W20-5R 48"X48"
4. END CONSTRUCTION — G20-2 60"x24"
5. W4-2 48"x48"
6. W1-4 48"x48"
7. SIDEWALK CLOSED AHEAD — CUSTOM 24"x12"
8. SIDEWALK CLOSED AHEAD CROSS HERE — R9-11L 24"x12"
9. SIDEWALK CLOSED — R9-11 24"x12"
10. SIDEWALK CLOSED AHEAD CROSS HERE — R9-11R 24"x12"
11. SEQUENTIAL ARROW BOARD TYPE B
12. NEW TRAFFIC PATTERN AHEAD — W23-2 48"X48"
13. LEFT LANE CLOSED AHEAD — W20-5L 48"X48"
14. 35 M.P.H. — W13-P 24"x24"

N

SCALE IN FEET
0 50 100

BID SET

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK

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CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

DRAWN BY: R. SAYLES DATE: 12/30/2020
DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE:12/30/2020
CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE:12/30/2020

KITSAP WAY CULVERT REPLACEMENT

PROPOSED TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

PN: 233-1896-153

DWG NO. TC1

SHEET 16 OF 18

NOTES:

1. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL MEETING THE MINIMUM REQUIREMENTS SHOWN HERE. SEE SPECIAL PROVISIONS.
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SYMBOL LEGEND:

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- WORK AREA
- TRAFFIC CONTROL DRUM FOR NIGHT TIME USE, 15' OC SPACING
- SIGN
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SCALE IN FEET
0 50 100

BID SET

12/30/2020

DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK

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CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

Parametrix

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DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE:12/30/2020
CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE:12/30/2020

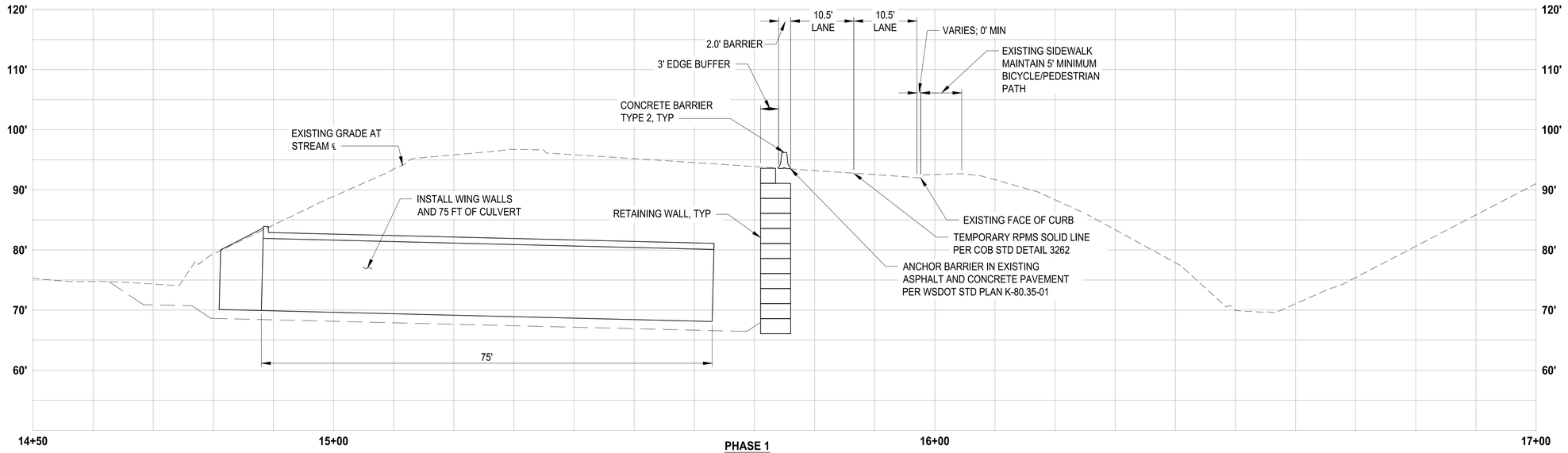
KITSAP WAY CULVERT REPLACEMENT

PROPOSED TEMPORARY TRAFFIC CONTROL PLAN PHASE 2

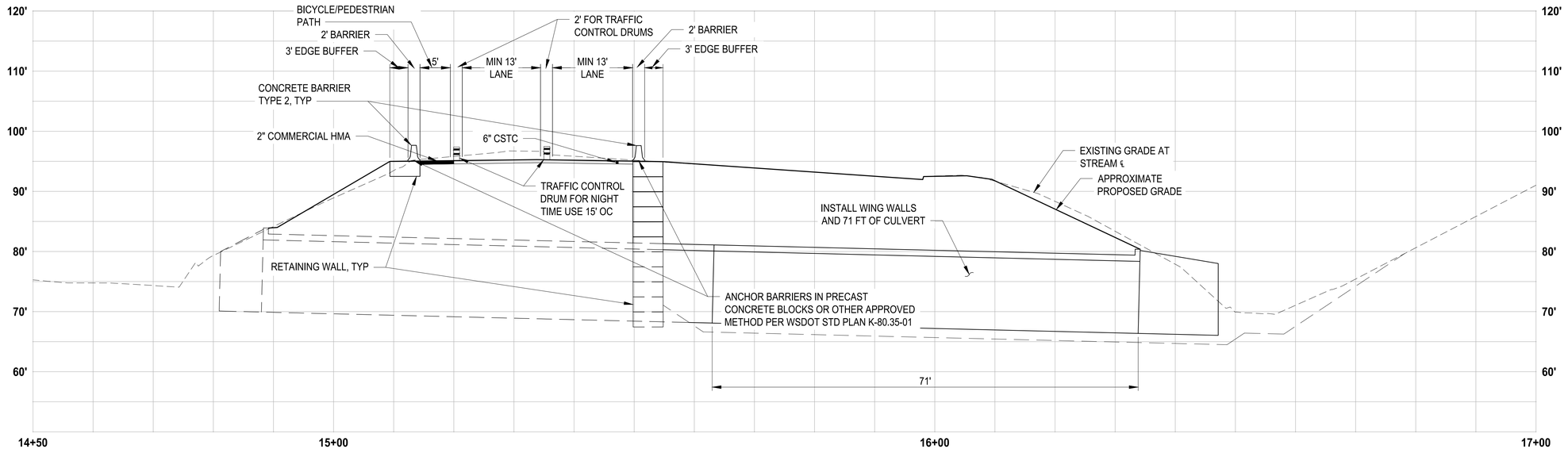
PN. 233-1896-153

DWG NO. TC2

SHEET 17 OF 18



PHASE 1
PROPOSED TEMPORARY BYPASS ROAD
PROFILE A
1"=10'



PHASE 2
PROPOSED TEMPORARY BYPASS ROAD
PROFILE B
1"=10'

GENERAL NOTES:

1. DESIGN OF TEMPORARY RETAINING WALLS, BARRIER ANCHORING SYSTEM, OR OTHER TYPES OF SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL ACCOUNT FOR PEDESTRIAN AND VEHICLE SURCHARGE LOADS.
2. BARRIER ANCHORING SYSTEM AND TEMPORARY SHORING DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
3. PROVIDE 3' BETWEEN EDGE OF DROP OFF AND BACK OF BARRIER FOR TYPE 2 CONCRETE BARRIERS NOT LOCATED ON RETAINING WALLS

BID SET

12/30/2020
DAVID L. DINKUHN — STATE OF WASHINGTON — 35814 — REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO	DESCRIPTION	DATE	BY

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY
SCALE
HORIZ. AS NOTED VERT. AS NOTED

FIELD BOOK
DRAWING NO.

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION
Parametrix

DRAWN BY: R. SAYLES DATE: 12/30/2020
DESIGN BY: R. SAYLES WASH. P.E. #58086 DATE:12/30/2020
CHECKED BY: D. DINKUHN WASH. P.E. #35814 DATE:12/30/2020

KITSAP WAY CULVERT REPLACEMENT
PROPOSED TEMPORARY BYPASS ROAD SECTIONS PHASE 1 AND 2

PN: 233-1696-153

DWG NO. TC3
SHEET 18 OF 18