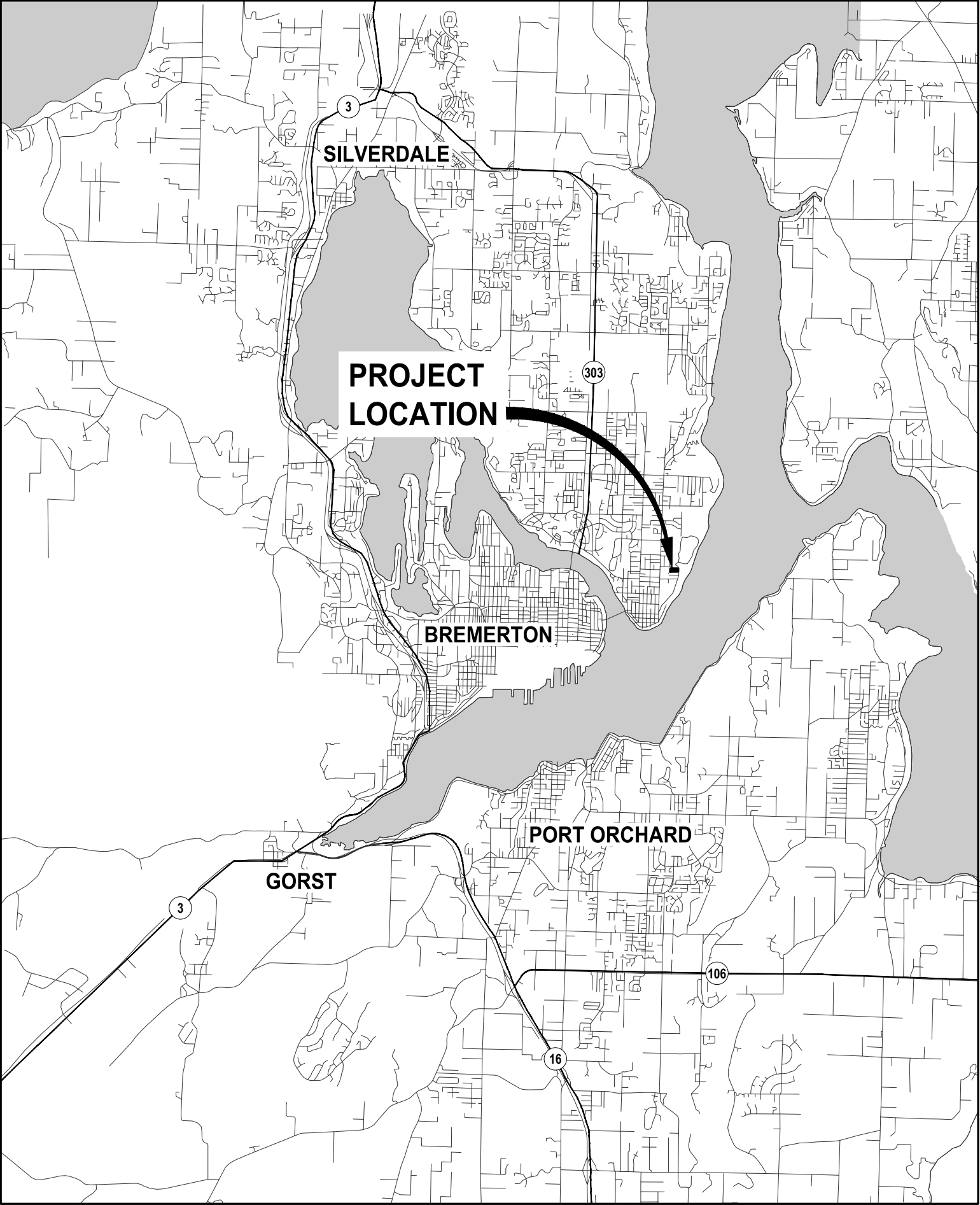


CASCADE TRAIL STORMWATER IMPROVEMENTS

PROJECT #85376
APRIL 2024



INDEX TO DRAWINGS			
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1 OF 5	G1	COVER SHEET	
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4 OF 5	TC1	TEMPORARY TRAFFIC CONTROL PLAN - PHASE 1	
5 OF 5	TC2	TEMPORARY TRAFFIC CONTROL PLAN - PHASE 2	

GENERAL NOTES

- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY BREMERTON'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF BREMERTON PRIOR TO ACCEPTANCE OF THE WORK.
- A COPY OF THESE APPROVED PLANS AND THE PROJECT'S SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER AND BREMERTON PRIOR TO IMPLEMENTATION IN THE FIELD.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- THE LOCATION OF KNOWN EXISTING UTILITIES SHOWN ARE APPROXIMATE; TAKEN FROM UTILITY LOCATE MARKINGS AND/OR AVAILABLE RECORD INFORMATION AT THE TIME OF DESIGN. EXACT LOCATION AND DEPTH OF UTILITIES ARE UNKNOWN AND SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DUE TO FAILURE TO LOCATE AND PRESERVE EXISTING UTILITIES.
- THE CONTRACTOR SHALL INSTALL, TEMPORARILY COVER, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION.
- RED-LINED MARKUPS MUST BE SUBMITTED PRIOR TO PROJECT ACCEPTANCE AND MAKING OF FINAL PAYMENT.
- ALL EXCAVATIONS ADJACENT TO POWER POLES OR OTHER RELATED FACILITIES (VAULTS, HANDHOLES ETC.) SHALL COMPLY WITH WAC 296-155, PART N, EXCAVATION, TRENCHING AND SHORING. POLE PROTECTION/SUPPORTING SYSTEMS USED WHILE EXCAVATING SHALL COMPLY WITH WAC 155-655 GENERAL PROTECTION REQUIREMENTS, ITEM (9) AND SHALL NOT AFFECT THE STRUCTURAL INTEGRITY OF POLES WHILE THE SYSTEMS ARE IN PLACE OR AFTER THE SYSTEMS HAVE BEEN REMOVED. WHERE CONSTRUCTION ACTIVITIES ARE IN CLOSE PROXIMITY TO POWER POLES, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE POWER UTILITY AT LEAST 48 HOURS IN ADVANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR FULL RESTORATION OF ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE INDICATED BY THE ENGINEER.
- CONTRACTOR IS REQUIRED TO PROVIDE A COMPETENT PERSON(S) TRAINED TO IDENTIFY EXISTING OR PREDICTING HAZARDS RELATED TO TRENCH SAFETY, SOIL CONDITIONS, AND SHORING REQUIREMENTS. IN ACCORDANCE WITH WAC 296-155 PART N. REPRESENTATIVES OF BREMERTON AND BHC SHALL NOT BE REQUIRED TO PERFORM THE ROLE OF COMPETENT PERSON FOR THE PROJECT. NO WORKERS SHALL ENTER A TRENCH OR OTHER EXCAVATION FOUR (4) FEET OR MORE IN DEPTH WITHOUT TRENCH SAFETY IN PLACE.
- THE CONTRACTOR SHALL MEET THE CONDITIONS OF ALL PROJECT PERMITS AND LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
- REFERENCES TO "CITY", "ENGINEER", "CITY ENGINEER", AND "OWNER" ARE USED INTERCHANGEABLY AND REFER TO THE CITY OF BREMERTON AND ITS AUTHORIZED REPRESENTATIVES. "PROPERTY OWNER" IS USED WHEN REFERRING TO OWNERS OF PRIVATE PROPERTY.

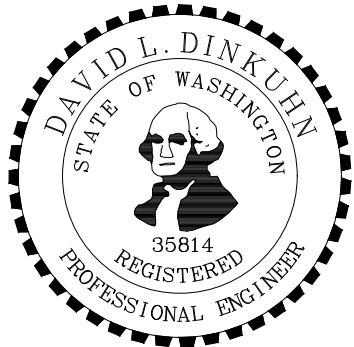
SEDIMENT / EROSION CONTROL NOTES:

- PROTECT EXISTING STORM WATER INFRASTRUCTURE ON EXISTING ROADS NEAR CONSTRUCTION ENTRANCES FROM SEDIMENT- LADEN RUNOFF.
- 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 OWNER.
- THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO ALL OTHER CONSTRUCTION.
- AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, THE EROSION CONTROL FACILITIES SHALL BE MAINTAINED AND/OR ALTERED AS REQUIRED BY THE CITY ENGINEER TO INSURE CONTINUING EROSION/SEDIMENTATION CONTROL.
- 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.
- 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.
- CLEANUP AND RESTORATION; THE FOLLOWING PROCEDURES SHALL BE FOLLOWED IN CLEANING AND RESTORING THE CONSTRUCTION SITE:
 - STREET SHALL BE SWEEPED FOR CONSTRUCTION DEBRIS AND DUST REMOVAL TWICE WEEKLY OR WHEN DIRECTED BY THE ENGINEER. IF THIS ACTIVITY IS NEGLECTED, THE CITY WILL CONTRACT WITH A SWEEPING COMPANY FOR THE WORK AND DEDUCT THE INVOICE AMOUNT PLUS 25% MARKUP FROM THE CONTRACTORS BILLING.
 - 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.
- TEMPORARY AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE LATEST EDITION OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SMMWW).

ABBREVIATIONS:

ABND	ABANDONED	MEF	MAXIMUM EXTENT FEASIBLE
ALUM	ALUMINUM	MID	MIDDLE, MIDPOINT
AP	ANGLE POINT	MIN	MINIMUM
B/W	BACK OF WALK	MISC	MISCELLANEOUS
BC	BOTTOM OF CURB	MJ	MECHANICAL JOINT
BOW	BACK OF WALK	MON	MONUMENT
C&G	CURB AND GUTTER	N	NORTH, NORTHING
CB	CATCH BASIN	NE	NORTHEAST
CI	CAST IRON	NO	NUMBER
CIP	CAST IN PLACE	NTS	NOT TO SCALE
CL	CENTERLINE	NW	NORTHWEST
CLR	CLEAR	OC	ON CENTER
CO	CLEANOUT	OCEW	ON CENTER EACH WAY
COB	CITY OF BREMERTON	OP,OHP	OVERHEAD POWER
CONC	CONCRETE	P	POWER, PROPOSED
CONT	CONTINUOUS	PC	POINT OF CURVATURE
CSBC	CRUSHED SURFACING BASE COURSE	PCC	PORTLAND CEMENT CONCRETE
CSTC	CRUSHED SURFACING TOP COURSE	PE	PLAIN END, POLYETHYLENE
CULV	CULVERT	PERP	PERPENDICULAR
DEMO	DEMOLISH, DEMOLITION	PI	POINT OF INTERSECTION
DI	DUCTILE IRON	PK	SURVEY NAIL
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PT	POINT OF TANGENCY, POINT
E	EAST, EASTING	PVC	POINT OF VERTICAL CURVATURE,
EA	EACH		POLYVINYL CHLORIDE
EG	EXISTING GROUND	PVI	POINT OF VERTICAL INTERSECTION
EL	ELEVATION	PVT	POINT OF VERTICAL TANGENCY, PRIVATE
EP	EDGE OF PAVEMENT	R	RADIUS
EQ	EQUAL	RT	RIGHT
EW	EACH WAY	ROW	RIGHT OF WAY
EWEF	EACH WAY EACH FACE	S	SOUTH
EX	EXISTING	SCH	SCHEDULE
FL	FLANGE, FLOW LINE	SD	STORM DRAIN
FOC	FACE OF CURB	SE	SOUTHEAST
FT	FOOT, FEET	SST	STAINLESS STEEL
FM	FORCE MAIN	ST	STREET
GV	GATE VALVE	STA	STATION
H, HORIZ	HORIZONTAL	STD	STANDARD
HDPE	HIGH DENSITY POLYETHYLENE	SW	SOUTHWEST
HMA	HOT MIX ASPHALT	T	TELEPHONE
HP	HIGH PRESSURE	TA	TOP OF ASPHALT
HT	HEIGHT	TBC	TOP BACK OF CURB
IE	INVERT ELEVATION	TC	TOP OF CURB
IN	INCH, INCHES	TYP	TYPICAL
L	LENGTH	V, VERT	VERTICAL
LF	LINEAR FEET, LINEAR FOOT	W	WATER, WIDTH, WEST
MAX	MAXIMUM	W/	WITH
MB	MAILBOX	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

60% Complete
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NO.	REVISIONS	DATE	BY

CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			
DESIGN BY: D. DINKUHN WA P.E.# 35814	DRAWN BY: M. BIGGS DATE: 3/2024	CHECKED BY: G. FRIDRICKSSON WA P.E.# 43786	DATE: 3/2024

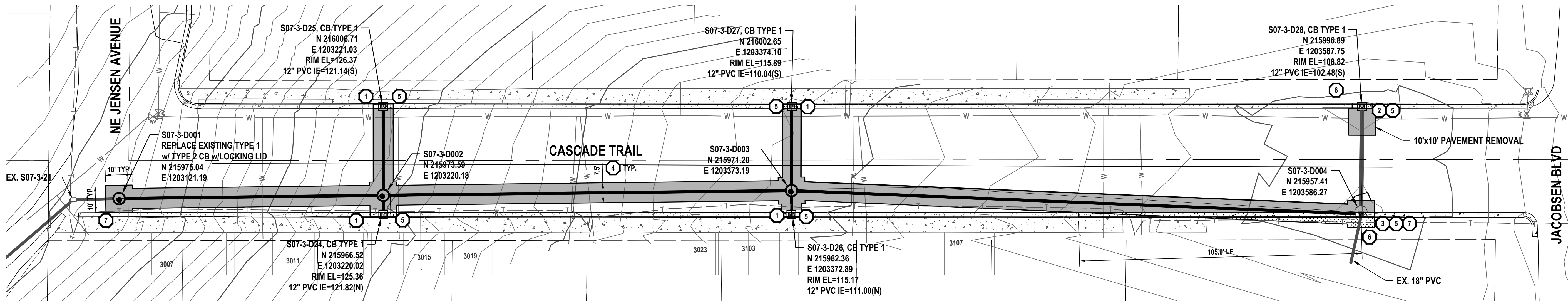
SECTION, TOWNSHIP, RANGE:
S07, T24N, R2E, W.M.
GRANT/LOAN INFORMATION

CASCADE TRAIL STORMWATER IMPROVEMENTS COVER SHEET

SHEET 1 OF 5
PN: 883
DWG G1



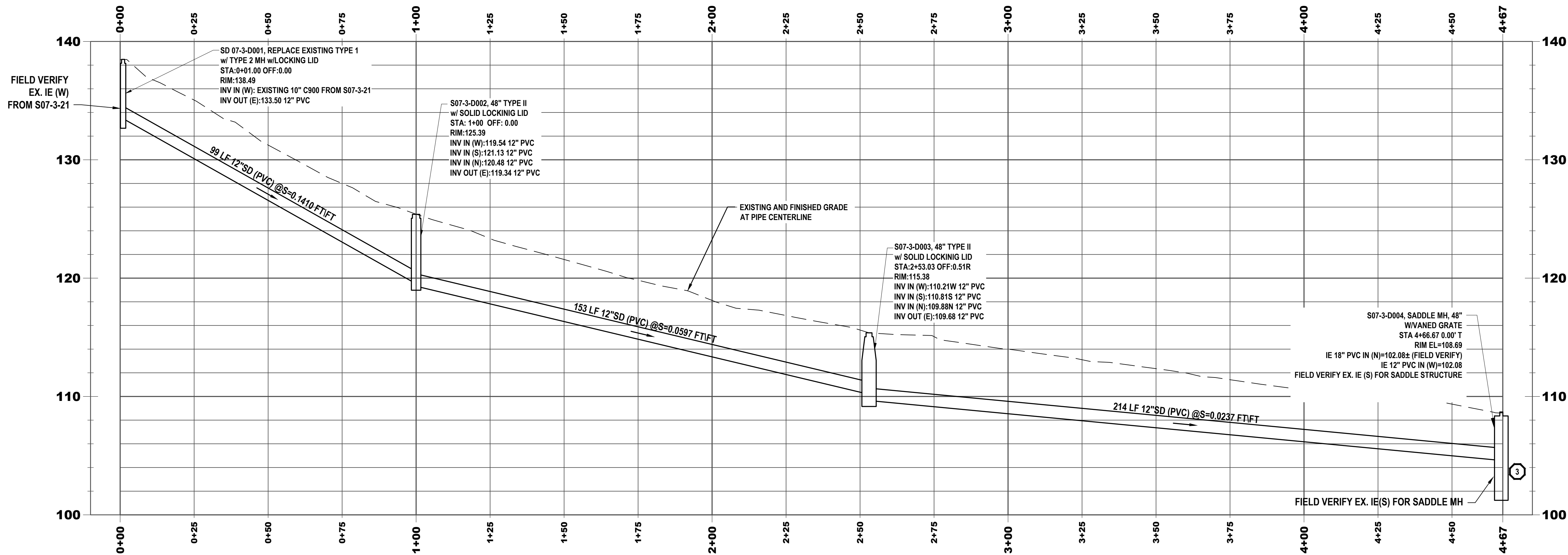
Know what's below.
Call before you dig.
Determina lo que esta bajo tierra.
Llama antes de excavar.



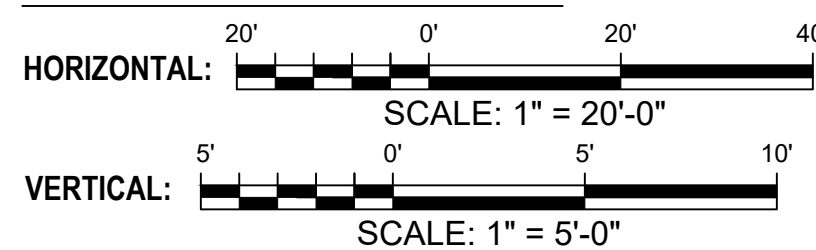
PLAN: CASCADE TRAIL

20' 0' 20' 40'

SCALE: 1" = 20'-0"



PROFILE: CASCADE TRAIL



GENERAL NOTES:

- COORDINATES SHOWN ARE TO CENTER OF STRUCTURE.
- STATIONS AND OFFSETS ARE REFERENCED TO THE PIPE CENTERLINE.
- CATCH BASINS AND VANED GRATES SHALL BE PER WSDOT STANDARD PLANS.
- SOLID LIDS FOR TYPE 2 CATCH BASINS SHALL BE PER CITY OF BREMERTON STANDARD DETAIL 4002, DECORATIVE STORM RING AND COVER.
- TYPE 1 CATCH BASINS SHALL BE PROVIDED WITH THRU CURB FRAME AND GRATE PER CITY OF BREMERTON STANDARD DETAIL 4010.

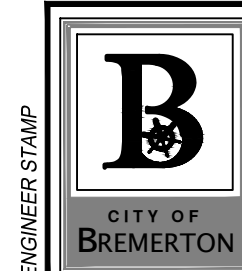
KEY NOTES:

- INSTALL TYPE 1 CATCH BASIN WITH VANED GRATE IN GUTTER LINE. REMOVE AND REPLACE CURB AND GUTTER TO NEAREST JOINT. SEE PROFILES ON SHEET C2.
- REMOVE EXISTING CATCH BASIN IN ASPHALT, INSTALL TYPE 1 CATCH BASIN WITH VANED GRATE IN GUTTER LINE. REMOVE AND REPLACE CURB AND GUTTER TO NEAREST JOINT. NEW CURB AND GUTTER AND ASPHALT TO SLOPE TO NEW CB. SEE PROFILE ON SHEET C2.
- INSTALL TYPE 2 CATCH BASIN WITH VANED GRATE IN GUTTER LINE. SEE PROFILE ON SHEET C2.
- TRENCH RESTORATION, SEE DETAIL 1 ON SHEET C2.
- CEMENT CONCRETE CURB AND GUTTER PER COB STANDARD DETAIL 3101.
- TRIMMING AND CLEANUP
- CONNECT TO DRAINAGE STRUCTURE

LEGEND:

- HMA REMOVAL AND RESTORATION LIMITS
- CEMENT CONCRETE CURB AND GUTTER
- ROW/PROPERTY BOUNDARY (GIS)

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NO.	REVISIONS	DATE	BY

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DESIGN BY: D. DINKUHN
WA P.E.# 35814 DATE: 3/2024

DRAWN BY: M. BIGGS
DATE: 3/2024

CHECKED BY: G. FRIDRICKSSON
WA P.E.# 43786 DATE: 3/2024

SECTION, TOWNSHIP, RANGE:
S07, T24N, R2E, W.M.

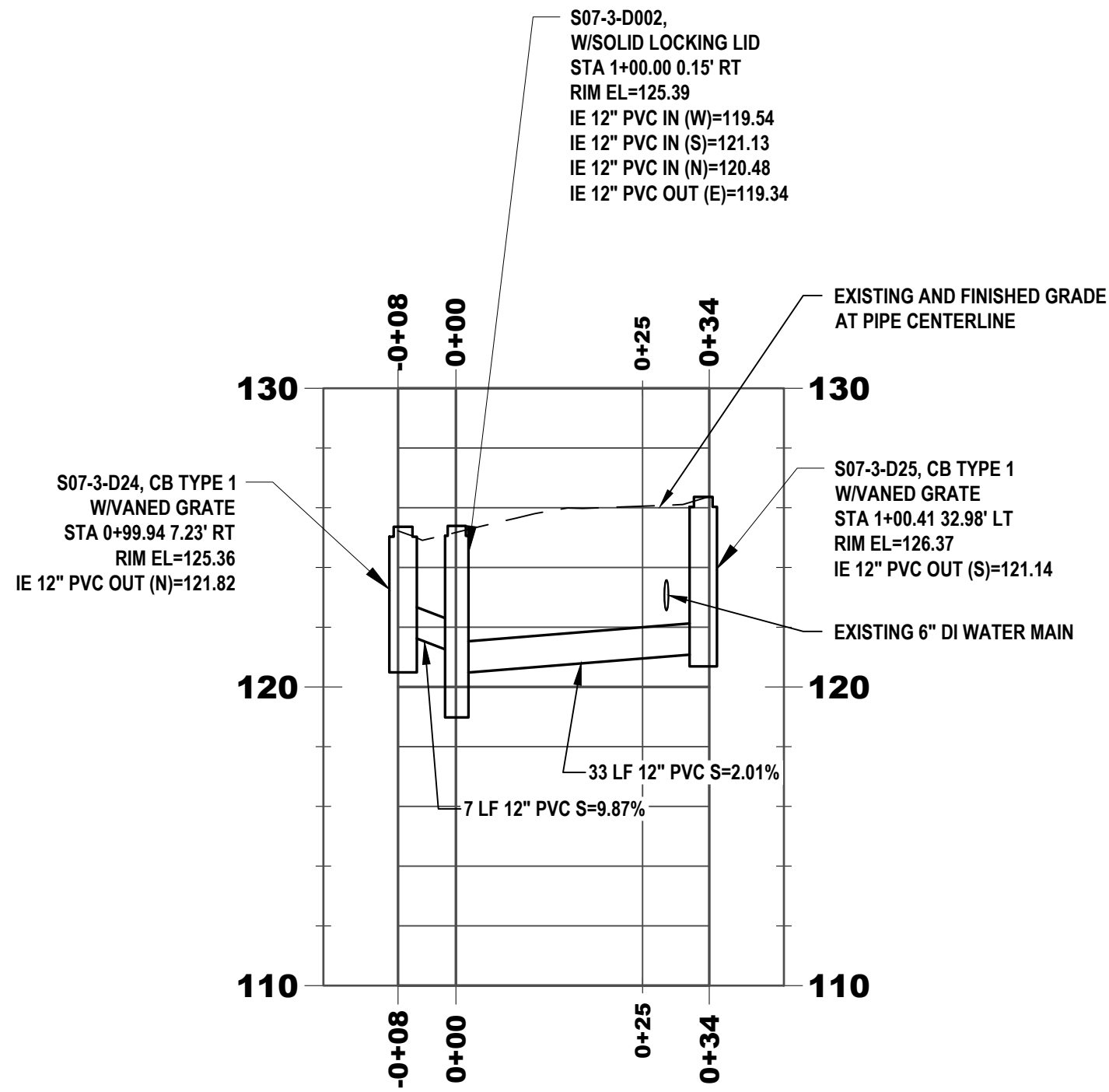
GRANT/LOAN INFORMATION

CASCADE TRAIL STORMWATER IMPROVEMENTS
COVER SHEET

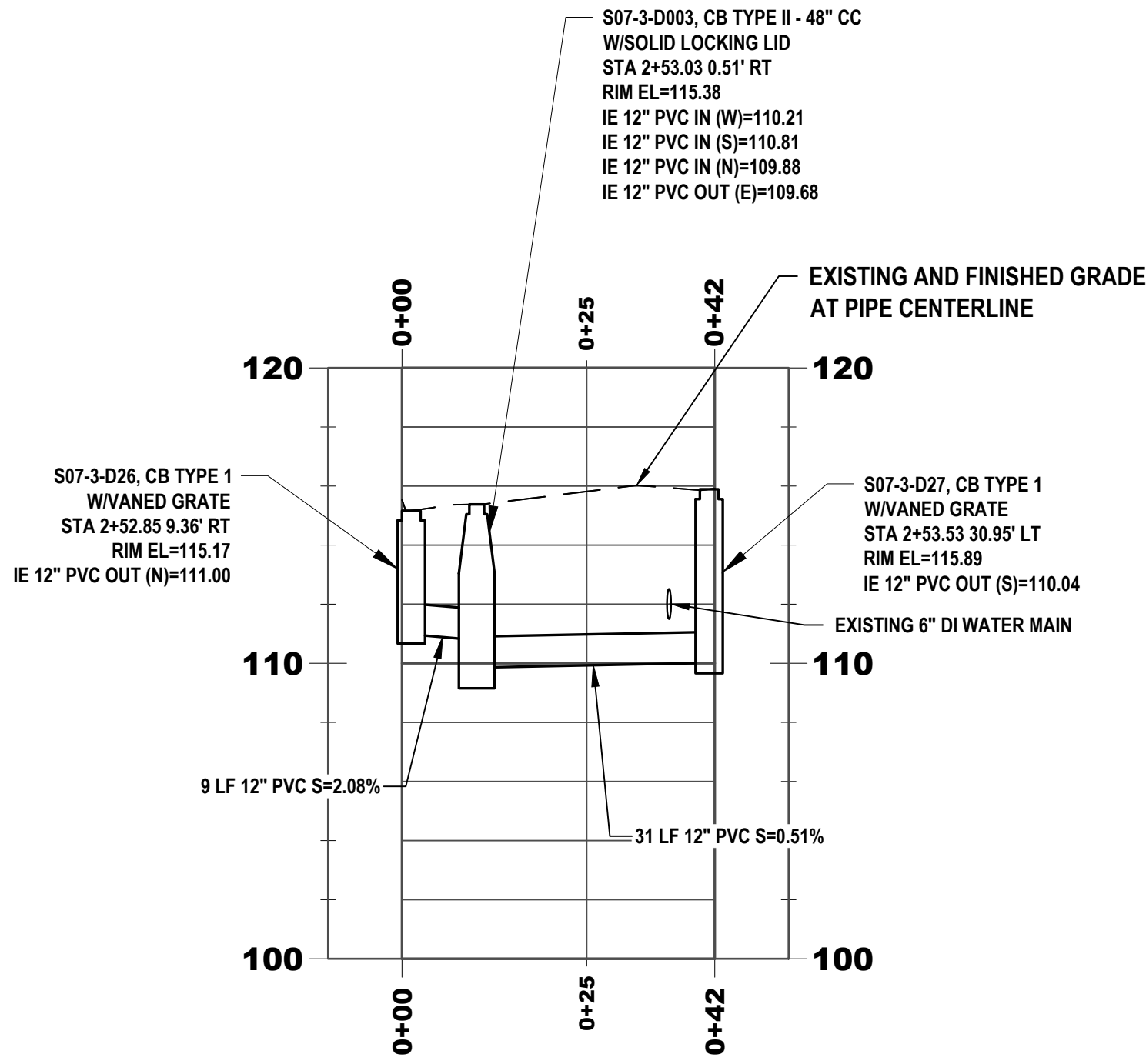
SHEET
2 OF 5

PN: 883

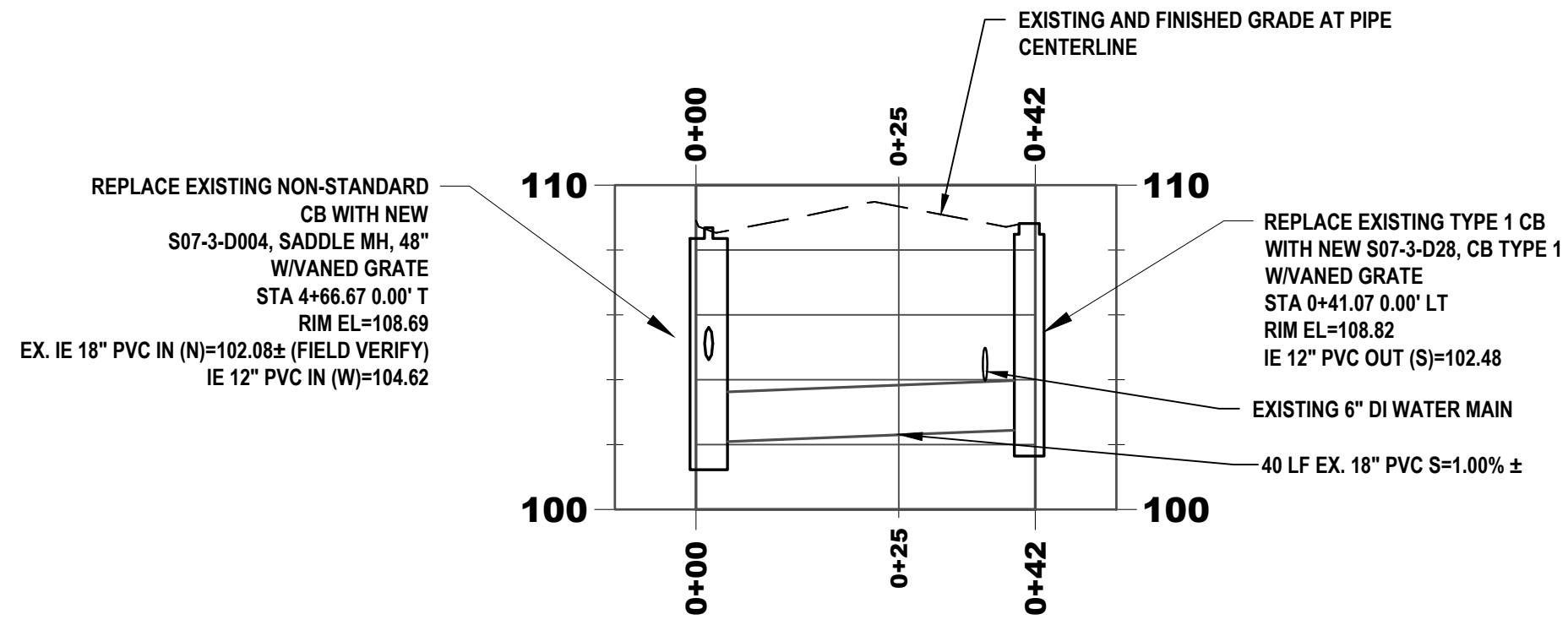
DWG
C1



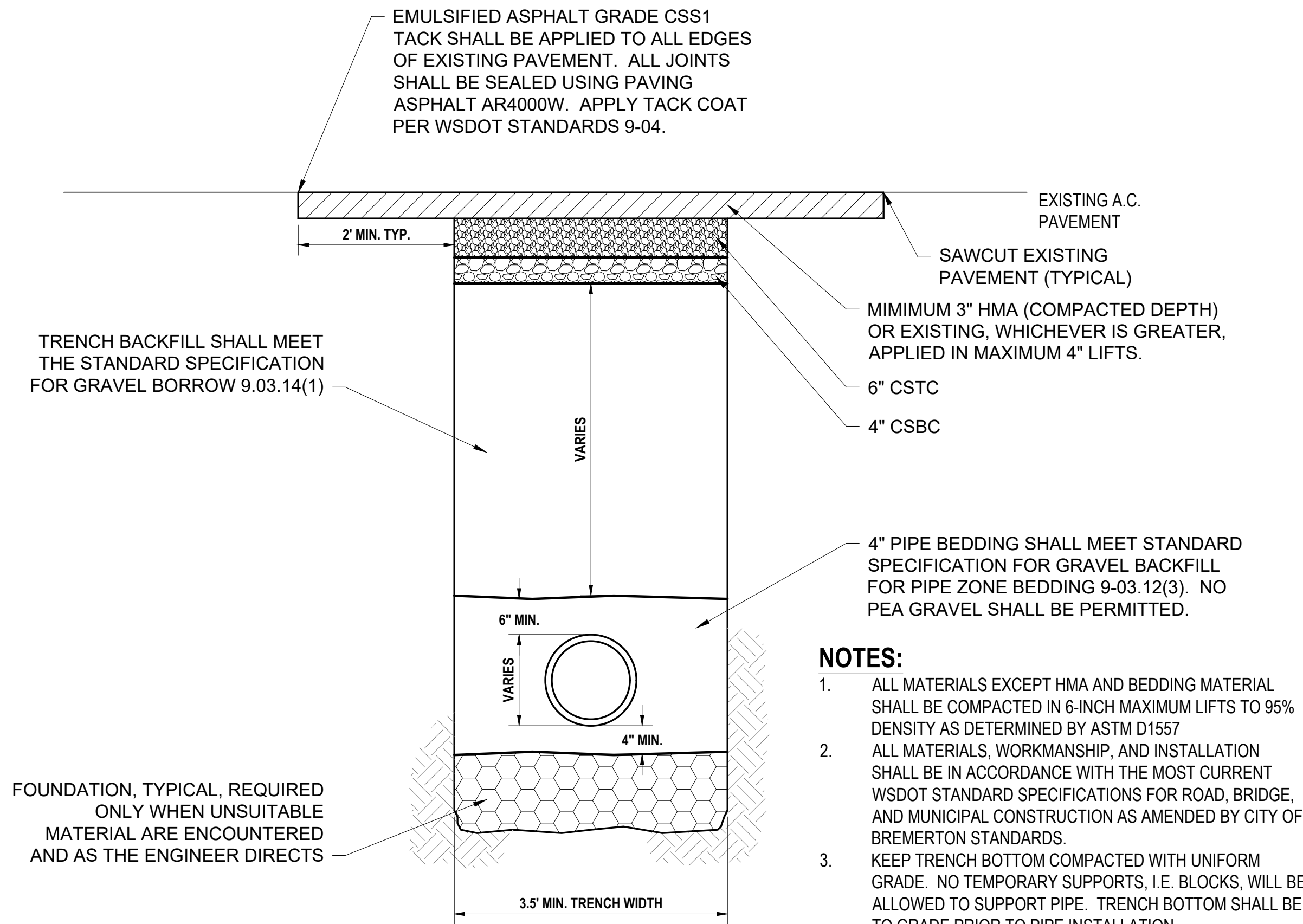
PROFILE: CASCADE TRAIL UPPER CATCHBASINS



PROFILE: CASCADE TRAIL MIDDLE CATCHBASINS



PROFILE: CASCADE TRAIL LOWER CATCHBASINS



- NOTES:**
- ALL MATERIALS EXCEPT HMA AND BEDDING MATERIAL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO 95% DENSITY AS DETERMINED BY ASTM D1557
 - ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF BREMERTON STANDARDS.
 - KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.

TRENCH RESTORATION
DETAIL
NOT TO SCALE



PHOTO 1

REPLACE EXISTING BUBBLE-UP
CB WITH NEW SDMH S07-3-D001



PHOTO 2

APPROXIMATE LOCATION OF
NEW CB S07-3-D28. REMOVE
AND REPLACE CURB AND
GUTTER TO NEAREST JOINT.
NEW CURB AND GUTTER AND
ASPHALT PATCH TO SLOPE TO
NEW CB S07-3-D28.

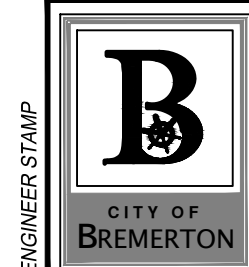
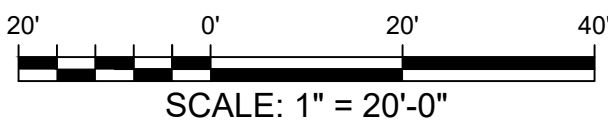
REMOVE EXISTING CB IN ROAD



PHOTO 3

REPLACE EXISTING
NON-STANDARD CB WITH NEW
SADDLE MH CB S07-3-D004

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ENGINEERING DIVISION

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CHECKED BY: G. FRIDRICKSSON
WA P.E.# 43786 DATE: 3/2024

SECTION, TOWNSHIP, RANGE:
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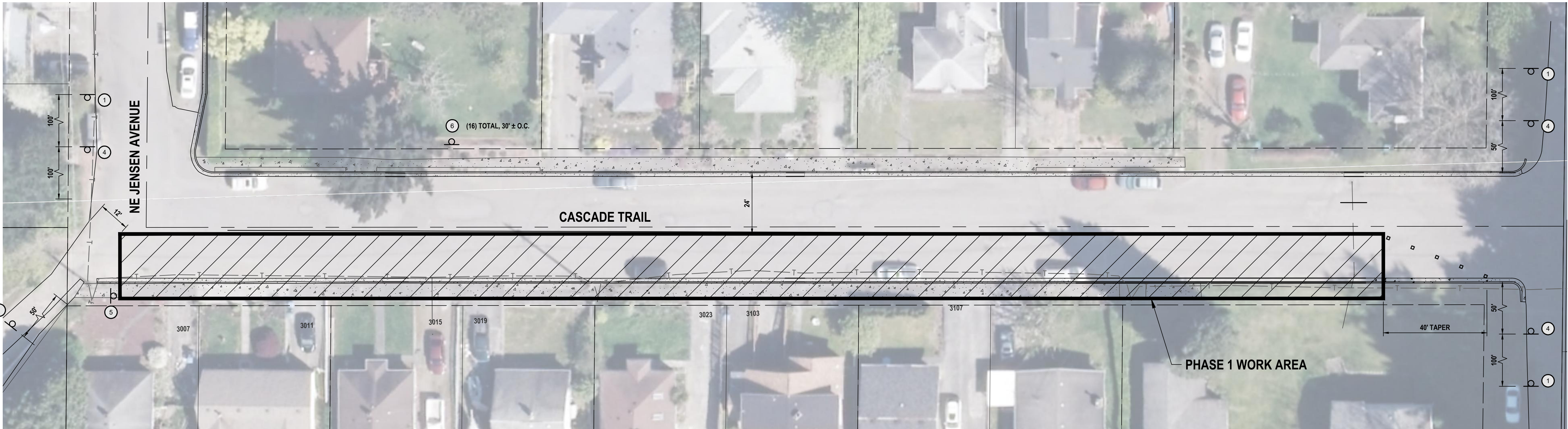
GRANT/LOAN INFORMATION

CASCADE TRAIL STORMWATER IMPROVEMENTS
PROFILES AND DETAILS

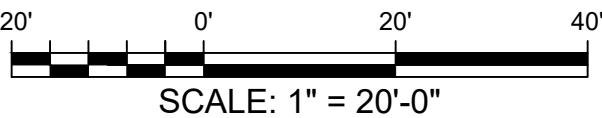
SHEET
3 OF 5

PN: 883

DWG
C2



PLAN: CASCADE TRAIL PHASE 1 WORK AREA



PHASE 1 TRAFFIC CONTROL REQUIREMENTS:
NO PARKING SIGNS ON NORTH SIDE OF STREET. NO FLAGGERS REQUIRED,
(2) 12-FOOT LANES ON THE NORTH SIDE OF CASCADE TRAIL. PRESERVE
ACCESS FOR RESIDENTIAL DRIVEWAYS WITH STEEL PLATES AS REQUIRED.

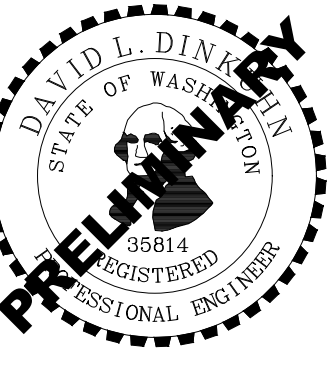
PHASE 2 TRAFFIC CONTROL REQUIREMENTS:
NO PARKING SIGNS ON SOUTH SIDE OF STREET. (2) FLAGGERS REQUIRED,
(1) 11-FOOT LANE AROUND WORK ZONE ON THE SOUTH SIDE OF CASCADE
TRAIL. PRESERVE ACCESS FOR RESIDENTIAL DRIVEWAYS WITH STEEL
PLATES AS REQUIRED.

- GENERAL NOTES:**
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR
APPROVAL, MEETING THE REQUIREMENTS OF THE MANUAL ON
UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE MINIMUM
REQUIREMENTS SHOWN HERE.
 - MAINTAIN PEDESTRIAN AND DRIVEWAY ACCESS AT ALL TIMES.
4-HOUR MAXIMUM DRIVEWAY CLOSURES SHALL BE ALLOWED
BETWEEN 8:00AM AND 4:00PM, WITH 48 HOURS NOTICE TO THE
AFFECTED HOMEOWNER.
 - DELINEATE WORK AREAS WITH CHANNELIZING DEVICES FOR NIGHTTIME
USE SPACED 20' ON CENTER MAX.
 - ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED OR
COVERED WITH A STEEL PLATE AT THE END OF EACH WORK SHIFT.

- LEGEND:**
- PHASE 1 WORK AREA
 - PHASE 2 WORK AREA
 - SIGN
 - CHANNELIZATION DEVICE FOR
NIGHTTIME USE (20' O.C. MAX.)
 - FLAGGER

- SIGN KEY**
- -
 -
 -
 -
 -
 -

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NO.	REVISIONS	DATE	BY

CITY OF BREMERTON
DEPARTMENT OF PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

DESIGN BY: D. DINKUHN
WA P.E.# 35814 DATE: 3/2024

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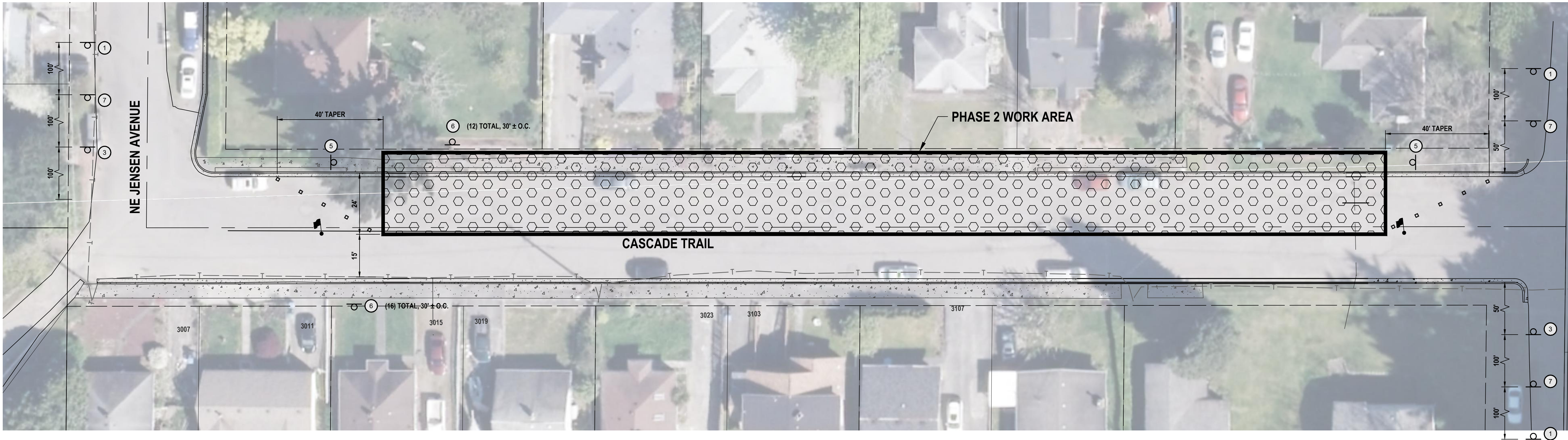
SECTION, TOWNSHIP, RANGE: S07, T24N, R2E, W.M.
GRANT/LOAN INFORMATION

CASCADE TRAIL STORMWATER IMPROVEMENTS
TEMPORARY TRAFFIC CONTROL PLAN
PHASE 1

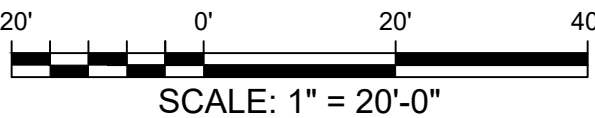
SHEET
4 OF 5

PN: 883

DWG
TC1



PLAN: CASCADE TRAIL PHASE 2 WORK AREA

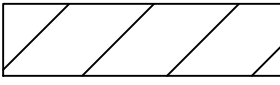
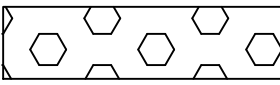





PHASE 1 TRAFFIC CONTROL REQUIREMENTS:
NO PARKING SIGNS ON NORTH SIDE OF STREET. NO FLAGGERS REQUIRED,
(2) 12-FOOT LANES ON THE NORTH SIDE OF CASCADE TRAIL. PRESERVE
ACCESS FOR RESIDENTIAL DRIVEWAYS WITH STEEL PLATES AS REQUIRED.



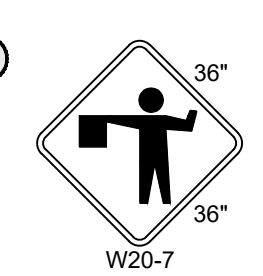

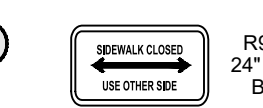


PHASE 2 TRAFFIC CONTROL REQUIREMENTS:
NO PARKING SIGNS ON BOTH SIDES OF STREET. (2) FLAGGERS REQUIRED,
(1) 11-FOOT LANE AROUND WORK ZONE ON THE SOUTH SIDE OF CASCADE
TRAIL. PRESERVE ACCESS FOR RESIDENTIAL DRIVEWAYS WITH STEEL
PLATES AS REQUIRED.

- GENERAL NOTES:**
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR
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REQUIREMENTS SHOWN HERE.
 - MAINTAIN PEDESTRIAN AND DRIVEWAY ACCESS AT ALL TIMES.
4-HOUR MAXIMUM DRIVEWAY CLOSURES SHALL BE ALLOWED
BETWEEN 8:00AM AND 4:00PM, WITH 48 HOURS NOTICE TO THE
AFFECTED HOMEOWNER.
 - DELINEATE WORK AREAS WITH CHANNELIZING DEVICES FOR NIGHTTIME
USE SPACED 20' ON CENTER MAX.
 - ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED OR
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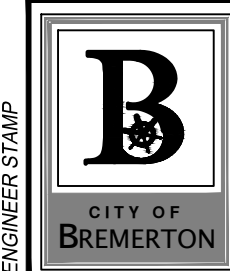
LEGEND:

-  PHASE 1 WORK AREA
-  PHASE 2 WORK AREA
-  SIGN
-  CHANNELIZATION DEVICE FOR
NIGHTTIME USE (20' O.C. MAX.)
-  FLAGGER

SIGN KEY

-  36"
36"
W20-1
-  36"
36"
W8-24 (AS NEEDED)
-  36"
36"
W20-7
-  36"
36"
W21-1
-  R9-10
24" x 12"
B/W
-  R7-1
12" x 18"
B/W
-  36"
36"
W20-4

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NO.	REVISIONS	DATE	BY

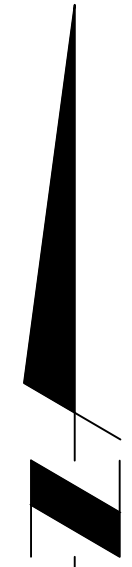
CITY OF BREMERTON DEPARTMENT OF PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			
DESIGN BY: D. DINKUHN WA P.E.# 35814 DATE: 3/2024	DRAWN BY: M. BIGGS DATE: 3/2024	CHECKED BY: G. FRIDRICKSSON WA P.E.# 43786 DATE: 3/2024	

SECTION, TOWNSHIP, RANGE:
S07, T24N, R2E, W.M.
GRANT/LOAN INFORMATION

CASCADE TRAIL STORMWATER IMPROVEMENTS TEMPORARY TRAFFIC CONTROL PLAN PHASE 2
--

SHEET 5 OF 5
PN: 883
DWG TC2

JACOBSEN BLVD



NGVD 88