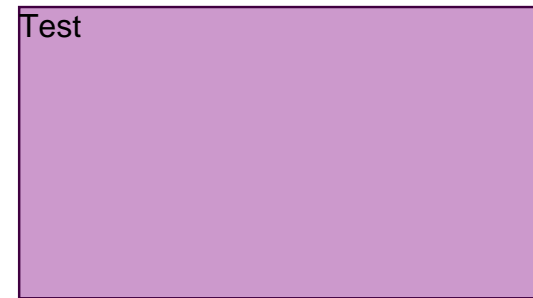


SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

PUYALLUP, WASHINGTON
 A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4 OF THE SE 1/4,
 SEC. 3, T. 19 N., R. 4 E.W.M. PIERCE COUNTY, WASHINGTON



Mark-up Legend	
Building Review	
Engineering Review	
Fire Review	
Planning Review	
Public Works Review	
Traffic Review	

E21-0913
 2nd ReviewMay

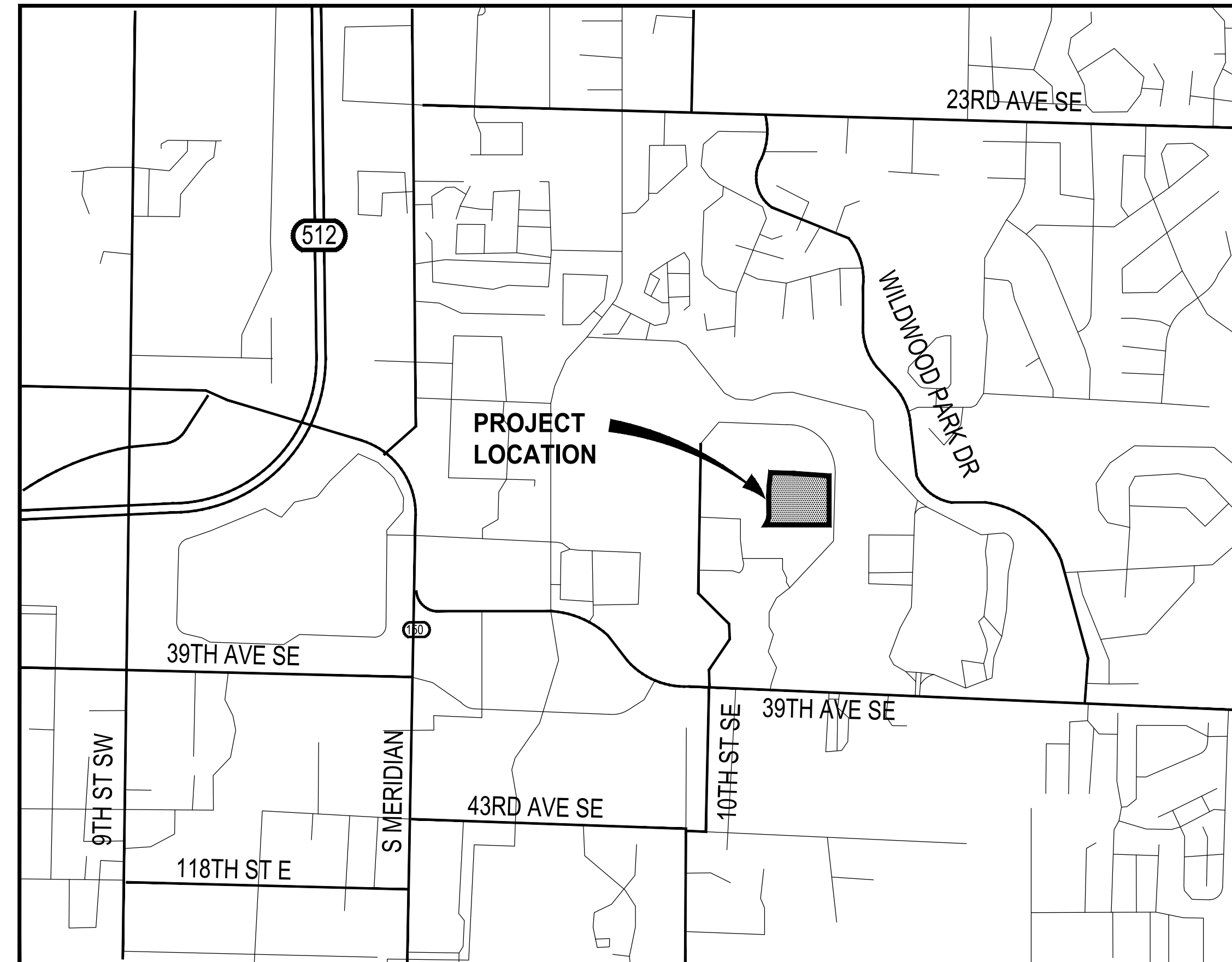


Know what's below.
 Call before you dig.

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
 Field conditions may dictate changes to these plans as determined by the City Engineer.

Use correct approval block. (Typ. All Sheets)(Plans, She G-0.1)

APPROVED
 BY: CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING
 DATE: _____
 NOTE:
 THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
 THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
 FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



SITE INFORMATION:

APPLICANT: THE BENAROYA COMPANY
 3600 136TH PLACE SE, SUITE 250
 BELLEVUE, WA 98006
 CONTACT: MARK JOHNSON

TAX PARCEL NUMBERS: 0419034038, 0419034036

PROJECT ADDRESS: 1015, 1019-1021 39TH AVE SE
 PUYALLUP, WA 98374
 T: 253.604.6600

ZONING: BUSINESS PARK

PROJECT REPRESENTATIVE: PARAMETRIX - PUYALLUP OFFICE
 1019 39TH AVE SE, SUITE 100
 PUYALLUP, WA 98374
 T: 253.604.6600
 PROJECT CONTACT: DARREN SANDENO

SERVICE PROVIDERS:

WATER: CITY OF PUYALLUP

SEWER: CITY OF PUYALLUP

POWER: PUGET SOUND ENERGY

FIRE PROTECTION: CENTRAL PIERCE FIRE & RESCUE

HORIZONTAL DATUM

NAD 83/96, WASHINGTON STATE PLANE COORDINATE SYSTEM SOUTH ZONE.
 ARRIVED BY USING WASHINGTON STATE REFERENCE NETWORK (WSRN).

VERTICAL DATUM

NAVD 88 PER WSRN. (SEE TABLE BELOW FOR SITE BENCH MARKS)

PARAMETRIX CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1001	671192.08	1197842.54	483.86	SET MAG NAIL
1003	670883.39	1197896.60	488.16	SET PK NAIL
9001	670710.15	1197894.27	489.72	SET MAG NAIL
10000	670497.91	1197893.61	490.02	SET MAG NAIL
10540	670535.80	1197896.50	490.48	SET MAG NAIL
20002	671206.88	1198144.42	512.84	SET 60d NAIL
20004	670465.74	1198200.14	520.42	SET HUB & MAGNAIL
20006	670241.18	1197960.17	495.55	SET MAG NAIL

EARTH WORK QUANTITIES

CUT= 34,932.19 CU. YD.
 FILL= 4,281.55 CU. YD.
 NET= 30,650.64 CU. YD (CUT)

UTILITIES LOCATE NOTE

THE LOCATION OF EXISTING UTILITIES SHOWN HEREON IS BASED ON INFORMATION OBTAINED FROM THE FIELD AND FROM RECORDS. PARAMETRIX ASSUMES NO RESPONSIBILITY FOR EXACT LOCATION OF EXISTING UTILITIES SHOWN OR NOT SHOWN HEREON. CONTRACTOR SHALL VERIFY THE EXACT SIZE, DEPTH, AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL FOR UNDERGROUND LOCATE AT 811 PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE RELOCATION OF EXISTING UNDERGROUND UTILITIES DEPICTED OR NOT DEPICTED ON THESE PLANS.



ONE INCH AT FULL SCALE.
 IF NOT, SCALE ACCORDINGLY

FILE NAME: Q1-P20731200C-CV
 JOB No. 217-7312-004
 DATE: MARCH 2022

Parametrix
 ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
 P 253.604.6600
 WWW.PARAMETRIX.COM

PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

COVER SHEET

DRAWING NO.
 01 OF 58
G-01

INDEX TO DRAWINGS		
SHT NO.	DWG NO.	SHEET TITLE
01	G-01	COVER SHEET
02	G-02	LEGEND & ABBREVIATIONS
03	G-03	GENERAL NOTES
04	TS-01	TYPICAL ROADWAY SECTIONS
05	EX-01	EXISTING SITE PLAN
06	HC-00	HORIZONTAL CONTROL PLAN COMPOSITE
07	HC-01	HORIZONTAL CONTROL PLAN
08	HC-02	HORIZONTAL CONTROL PLAN
09	HC-03	HORIZONTAL CONTROL PLAN
10	HC-04	HORIZONTAL CONTROL PLAN
11	HC-05	HORIZONTAL CONTROL PLAN
12	DM-00	DEMOLITION, TESC, CLEARING & GRUBBING COMPOSITE PLAN
13	DM-01	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
14	DM-02	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
15	DM-03	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
16	DM-04	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
17	DM-05	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
18	DM-06	DEMOLITION, TESC, CLEARING & GRUBBING DETAILS
19	SD-00	HARDSCAPE & STORM DRAINAGE PLAN COMPOSITE
20	SD-01	HARDSCAPE & STORM DRAINAGE PLAN
21	SD-02	HARDSCAPE & STORM DRAINAGE PLAN
22	SD-03	HARDSCAPE & STORM DRAINAGE PLAN
23	SD-04	HARDSCAPE & STORM DRAINAGE PLAN
24	SD-05	HARDSCAPE & STORM DRAINAGE PLAN
25	SD-06	HARDSCAPE STANDARD DETAILS
26	SD-07	STORM DRAINAGE STANDARD DETAILS
27	SD-08	STORM DRAINAGE STANDARD DETAILS
28	SD-09	STORM DRAINAGE STANDARD DETAILS
29	GR-00	GRADING PLAN COMPOSITE
30	GR-01	GRADING PLAN
31	GR-02	GRADING PLAN
32	GR-03	GRADING PLAN
33	GR-04	GRADING PLAN
34	GR-05	GRADING PLAN
35	GR-06	ALIGNMENT A PROFILE
36	GR-07	ALIGNMENT B, C & D PROFILES
37	GR-08	ALIGNMENT E PROFILE
38	GR-09	ALIGNMENT F & G PROFILES
39	GR-10	ALIGNMENT H PROFILE
40	GR-11	ALIGNMENT I PROFILE
41	GR-12	ALIGNMENT J PROFILE
42	GR-13	ALIGNMENT K & L PROFILE
43	GR-14	ALIGNMENT M PROFILE
44	GR-15	GRADING PLAN STAIR DETAILS
45	GR-16	GRADING POINT TABLES
46	GR-17	GRADING POINT TABLES
47	GR-18	GRADING POINT TABLES
48	GR-19	GRADING POINT TABLES
49	WA-01	WATER MAIN PLAN
50	WA-02	WATER MAIN DETAILS
51	IL-00	ILLUMINATION PLAN COMPOSITE
52	LS-00	LANDSCAPE PLAN COMPOSITE
53	LS-01	LANDSCAPE ENLARGEMENT PLAN
54	LS-02	LANDSCAPE ENLARGEMENT PLAN
55	LS-03	LANDSCAPE ENLARGEMENT PLAN
56	LS-04	LANDSCAPE ENLARGEMENT PLAN
57	LS-05	LANDSCAPE ENLARGEMENT PLAN
58	LS-06	LANDSCAPE NOTES, DETAILS & PLANT SCHEDULE

NOTE:
 SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

APPROVED

BY: _____
 CITY OF PUYALLUP
 ENGINEERING DEPARTMENT

DATE: _____

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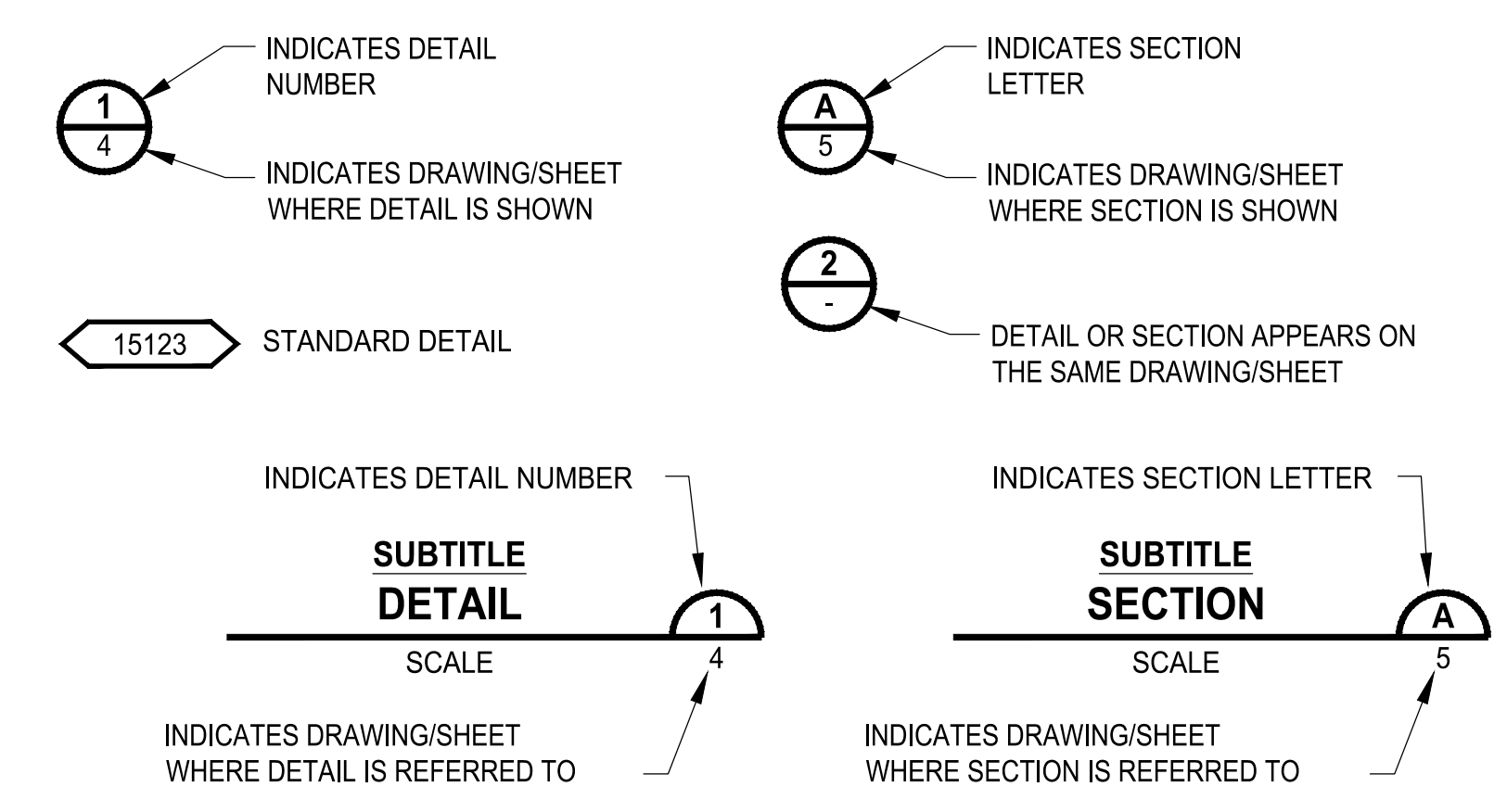
LEGEND - EXISTING

	BUILDING OUTLINE
	CATCH BASIN
	STORM MANHOLE
	GAS VALVE
	FIRE HYDRANT
	LUMINAIRE
	MAILBOX
	J-BOX
	POWER POLE ANCHOR
	POWER POLE
	POWER RISER
	POWER VAULT
	SANITARY CLEANOUT
	SANITARY SEWER MANHOLE
	SIGN
	SIGNAL LUMINAIRE
	SURVEY MONUMENT
	TELEPHONE MANHOLE
	TELEPHONE RISER
	WATER METER
	WATER VALVE
	ALIGNMENT RIGHT OF WAY LINE
	ASPHALT LINE
	DITCH CENTERLINE
	FENCE - WOOD
	EXISTING GRAVEL ROAD
	HIGH WATER MARK
	MINOR CONTOURS
	MAJOR CONTOURS
	SANITARY SEWER LINE
	STORM DRAIN LINE
	WATER BANK LINE
	WATER MAIN
	RIGHT-OF-WAY BOUNDARY
	PROPERTY BOUNDARY

LEGEND - PROPOSED

	ALIGNMENT CENTERLINE
	WATER MAIN CAP
	WATER PIPE FITTING
	WATER VALVE
	WATER MAIN
	FIRE HYDRANT
	WATER SERVICE W/METER
	PRESSURE RELIEF VALVE

DETAIL AND SECTION DESIGNATION



ABBREVIATIONS

ADDL	ADDITIONAL	LF	LINEAR FEET, LINEAR FOOT
ADJ	ADJUSTABLE	LG	LENGTH, LONG
AGG	AGGREGATE	LIN	LINEAR
ALLOW	ALLOWANCE, ALLOWABLE	LN	LANE
AMT	AMOUNT	LT	LEFT
ANG	ANGLE	LTG	LIGHTING
AP	ANGLE POINT	MAN	MANUAL
APPD	APPROVED	NATL	MATERIAL
APPROX	APPROXIMATE	MH	MANHOLE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	MIN	MINIMUM, MINUTE
ARV	AIR RELEASE VALVE	MISC	MISCELLANEOUS
ASPH	ASPHALT	MON	MONUMENT
ASSY	ASSEMBLY	MPH	MILES PER HOUR
ATB	ASPHALT TREATED BASE	MTL	METAL
AVE	AVENUE	MW	MONITORING WELL
AVG	AVERAGE	N	NORTH, NORTHING
BC	BEGINNING OF CURVE, BOLT CIRCLE	NIC	NOT IN CONTRACT
BCR	BEGINNING OF CURVE CENTER	NO	NUMBER
BF	BLIND FLANGE	NTS	NOT TO SCALE
BLDG	BUILDING	P	PUMP, POWER
BLVD	BOULEVARD	PC	POINT OF CURVATURE
BM	BEAM, BENCH MARK	PCC	PORTLAND CEMENT CONCRETE
BO	BLOW OFF	PCY	PRESSURE CONTROL VALVE
BOT	BOTTOM	PERF	PERFORATE, PERFORATED
BRG	BEARING	PH	PHASE
BVC	BEGIN VERTICAL CURVE	PI	POINT OF INTERSECTION, PRESSURE INDICATOR
CALC	CALCULATION	PIVC	POINT OF INTERSECTION FOR VERTICAL CURVE
CAP	CAPACITY	PP	POWER POLE
CB	CATCH BASIN	PRV	PRESSURE REGULATING VALVE, PRESSURE RELIEF VALVE, PRESSURE REDUCING VALVE
CCP	CONCRETE CYLINDER PIPE	PS	PRESSURE SWITCH
CCSP	CONCRETE LINED AND COATED STEEL PIPE	PSI	POUNDS PER SQUARE INCH
CEM	CEMENT	PT	POINT OF TANGENCY, POINT
CHV	CHECK VALVE	PV	PLUG VALVE
CI	CAST IRON	PVI	POINT OF VERTICAL INTERSECTION
CIP	CAST IN PLACE, CAST IRON PIPE	PVT	PAVEMENT, PAVING, PRIVATE
CLR	CLEAR, CLEARANCE	PWR	POWER
CND	CONDUIT	QTY	QUANTITY
CO	COUNTY, CLEANOUT	QUAL	QUALITY
CONC	CONCRETE	R	RISER
CONN	CONNECT, CONNECTION	RAD	RADIUS
CONST	CONSTRUCT, CONSTRUCTION	RCP	REINFORCED CONCRETE PIPE
CONT	CONTINUE, CONTINUOUS	RD	ROAD, ROOF DRAIN
CONTR	CONTRACTOR	RED	REDUCER
COORD	COORDINATE	REF	REFERENCE
CSBC	CRUSHED SURFACING BASE COURSE	REQD	REQUIRED
CSTC	CRUSHED SURFACING TOP COURSE	RET	RETAINING, RETURN
CTR	CENTER	REV	REVERSE, REVISE
CUFT	CUBIC FOOT, CUBIC FEET	ROT	ROTATE
CULV	CULVERT	ROW	RIGHT OF WAY
CV	CONTROL VALVE	RT	RIGHT
CY	CUBIC YARD	RV	RELIEF VALVE
D	DEPTH, DENSITY, DRAIN, DRAINAGE	RW	RIGHT OF WAY
DBL	DOUBLE	S	SOUTH
DEG	DEGREE	SCH	SCHEDULE
DEMO	DEMOLITION	SD	STORM DRAIN
DEPT	DEPARTMENT	SDMH	STORM DRAIN MANHOLE
DET	DETAIL	SE	SPOT EVALUATION
DI	DUCTILE IRON	SECT	SECTION
DIA	DIAMETER	SEG	SEGMENT
DIM	DIMENSION	SERV	SERVICE
DIP	DUCTILE IRON PIPE	SIG	SIGNAL
DIST	DISTANCE, DISTRICT	SL	SLOPE, RAW SLUDGE
DSGN	DESIGN	SPA	SPACE, SPACES
DWG	DRAWING	SPEC	SPECIFICATION
E	EAST, EASTING	SPG	SPACING
EA	EACH	SQ	SQUARE
EC	END OF CURVE	SOFT	SQUARE FOOT, SQUARE FEET
EL	ELEVATION	SQIN	SQUARE INCH, SQUARE INCHES
ELL	ELBOW	SQYD	SQUARE YARD, SQUARE YARDS
EOP	EDGE OF PAVEMENT	SS	SANITARY SEWER
EQUIP	EQUIPMENT	SSMH	SANITARY SEWER MANHOLE
EVC	END VERTICAL CURVE	ST	STREET
EXIST	EXISTING	STA	STATION
EXL	EXCAVATE	STD	STANDARD
FCR	FINE CRUSHED ROCK	SUR	SURFACE
FG	FINISH GRADE	SURV	SURVEY
FH	FIRE HYDRANT	SYS	SYSTEM
FIN	FINISH, FINISHED	TAN	TANGENT
FL	FLOW LINE	TEL	TELEPHONE
FLG	T FLANGE, FLANGED	TEMP	TEMPERATURE, TEMPORARY
FM	FORCE MAIN	THK	THICK, THICKNESS
G	GAS	THRU	THROUGH
GND	GROUND	TOB	TOP OF BANK
GR	GRADE	TOC	TOP OF CONCRETE, TOP OF CURB
GV	GATE VALVE	TOT	TOTAL
H	HIGH	TOW	TOP OF WALL
HORIZ	HORIZONTAL	TYP	TYPICAL
HT	HEIGHT	UG	UNDERGROUND
ID	INSIDE DIAMETER	UP	UTILITY POLE
IE	INVERT ELEVATION	UPR	UPPER
IN	INCH	V	VALVE, VENT, VOLT
INCL	INCLUDE, INCLUDING	VAR	VARIABLE, VARIATION
INSTL	INSTALL, INSTALLATION	VERT	VERTICAL
INT	INTERIOR, INTERSECTION	VOL	VOLUME
INV	INVERT	W	WATER, WATT, WEST, WIDTH
JB	JUNCTION BOX	WD	WIDE, WOOD
JCT	JUNCTION	WM	WATER METER
LAT	LATERAL, LATITUDE	WS	WATER SURFACE
LB	POUND	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
LBL	LABEL	WT	WEIGHT
		XFMR	TRANSFORMER
		XSECT	CROSS-SECTION
		YD	YARD
		YR	YEAR

LAYOUT: G-02 PATH: u:\p50\Projects\Clients\7312-Berroya\7312-004-SHBA\CParkingExpansion\995vca\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:39:06 AM

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			RLP
			CHECKED
			DMS
			APPROVED
			DMS

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FILE NAME: 01-P50731200C-CV
 JOB No. 217-7312-004
 DATE MARCH 2022



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 P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

LEGEND & ABBREVIATIONS

DRAWING NO.
02 OF 58

G-02

CITY OF PUYALLUP GENERAL NOTES

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'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 THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

Use complete City Std Notes (missing original Note 15) Plans: Shit G-03

CITY OF PUYALLUP STORMWATER NOTES

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A RECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'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 THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
- MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
- CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL), VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
 - THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
 - DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
 - POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3- FEET. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

CITY OF PUYALLUP WATER SYSTEM NOTES

Also shown on Sheet WA-02 Plans: Shit G-03

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING 253-841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'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 THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR. PRIOR TO ANY IMPLEMENTATION IN THE FIELD, THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS. CITY OF PUYALLUP - CITY STANDARDS WATER REVISED 11/2020 300-8
- PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.
- CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL, A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6-INCH TAP ON 8-INCH PIPE, THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.
- VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
- RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.
- PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
- WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
- TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
- ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT, THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND. CITY OF PUYALLUP - CITY STANDARDS WATER REVISED 11/2020 300-9
- WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.
- "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.
- WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09)
 - REPAIR WITHOUT DEPRESSURIZATION - SMALL LEAKS SHALL BE REPAIRED USING REPAIR BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER-EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR

SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE, (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF).

REPAIR/CUT-IN WITH DEPRESSURIZATION - TRENCH SHALL BE OVER EXCAVATED AND DEWATERED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR. IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER MAIN BREAK PROCEDURE."

26. NEW WATER MAIN INSTALLATION:

- EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED. NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIXTY-FIVE PERCENT (65%) CALCIUM HYPOCHLORITE SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA.

65% CALCIUM HYPOCHLORITE ADDITION PER PIPE SECTION					
PIPE DIAMETER (INCHES)	PIPE VOLUME PER 18 FEET (GAL)	5-GRAM TABLETS PER PIPE SECTION	HYPOCHLORITE GRANULES OUNCES PER 500 FEET	TEASPOONS PER 18 FEET	MAXIMUM FILL RATE (GPM)
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	6	15.1	1.4	350
16	141	6	27	2.5	600

- NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW WATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
- THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST IS COMPLETED. IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L. UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.
- PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE ON THE BACK SIDE OF THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.
- AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24) WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ONSITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT (WPCP) SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PREVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.
- SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.
- ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW OR REPLACED WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.



Know what's below. Call before you dig.

APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field conditions may dictate changes to these plans as determined by the City Engineer.

CITY OF PUYALLUP GRADING, EROSION AND SEDIMENTATION CONTROL NOTES

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING 253-841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'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 THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 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.
- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
- ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES, AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

GENERAL NOTES

DRAWING NO.
03 OF 58

G-03

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME:
01-P20731200C-CV

JOB No.
217-7312-004

DATE
MARCH 2022



Parametrix
ENGINEERING, PLANNING, ENVIRONMENTAL SCIENCES

1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
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WWW.PARAMETRIX.COM

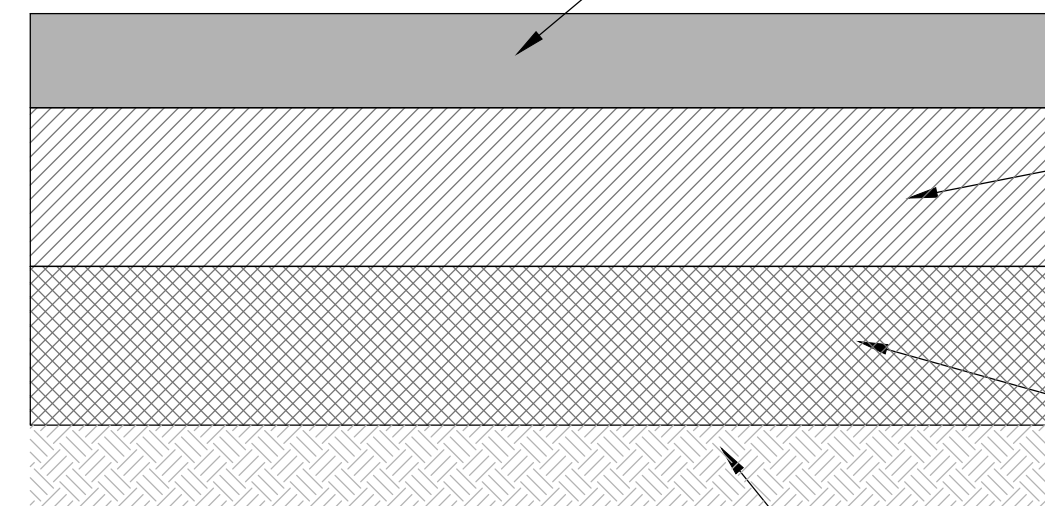
PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

PUYALLUP, WA

LAYOUT: TS-01
 PATH: u:\p\30\Projects\Clients\312-Benaroya\217-7312-004-SHIB&TParkingExpansion\985cva\CADD\DWG
 PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:35:14 AM

NOTE: ALL SUBGRADE PREPARATION SHALL BE DONE IN ACCORDANCE WITH THE "GEOTECHNICAL ENGINEERING EVALUATION" (FEBRUARY 5, 2021) PREPARED BY GEOENGINEERS.



ASPHALT DEPTH SECTION
NO SCALE

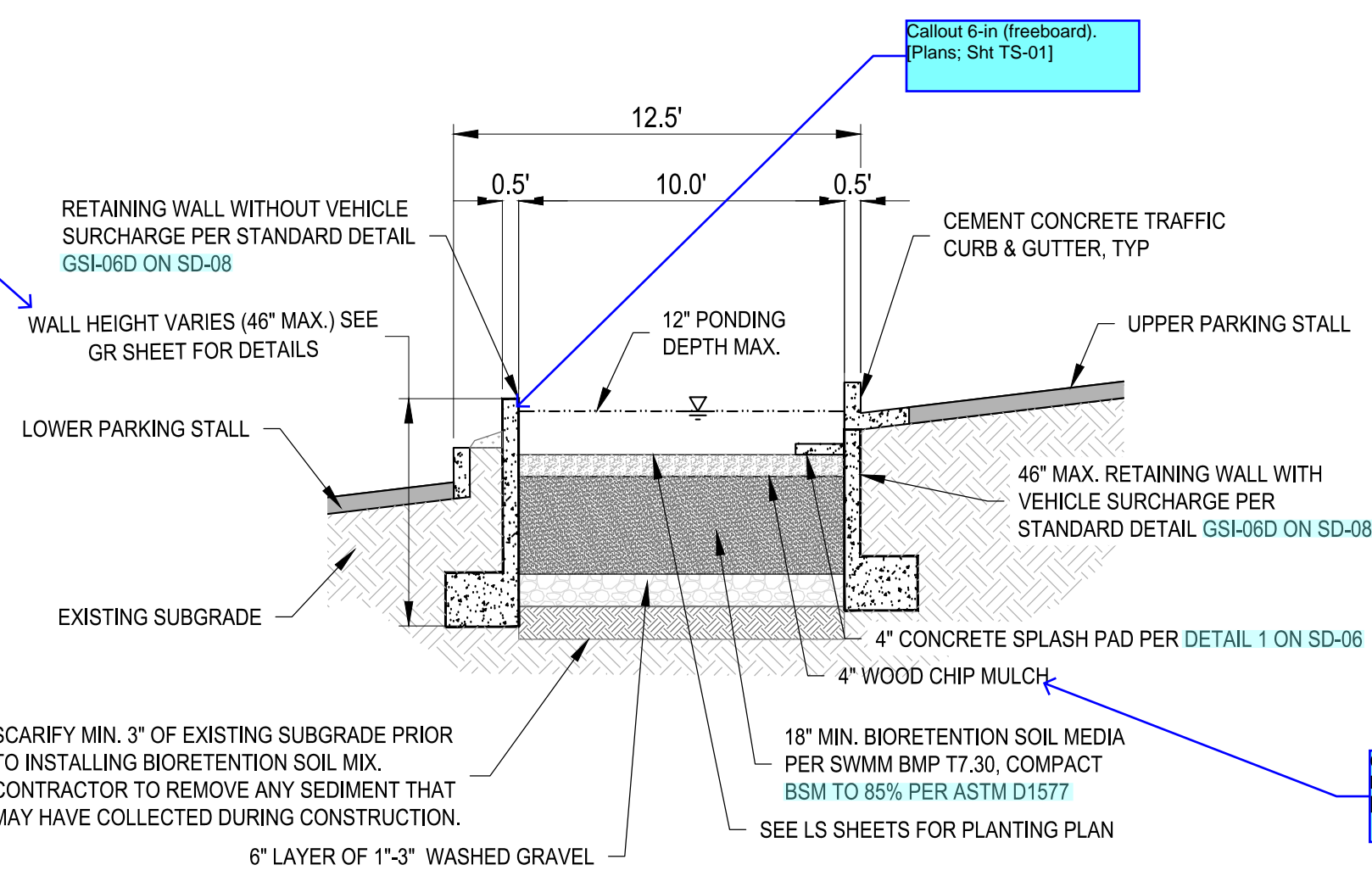
CLASS "B" ASPHALT CONCRETE 3" MIN. COMPACTED DEPTH. OPTIONAL VARIABLE IS TO HAVE THE PARKING STALL AREA ONLY BE 2" MIN FOR BASE COURSE PER THE GEOTECHNICAL REPORT.

CRUSHED SURFACING BASE COURSE 6" MIN. COMPACTED DEPTH. OPTIONAL VARIABLE IS TO HAVE THE PARKING STALL AREA ONLY BE 4" MIN FOR BASE COURSE PER THE GEOTECHNICAL REPORT.

SUBBASE GRAVEL BORROW 6" MIN. COMPACTED DEPTH. TO BE 12"-18" COMPACTED DEPTH IF CONSTRUCTED DURING WET WEATHER PER GEOTECHNICAL RECOMMENDATIONS.

SUBGRADE COMPACTED TO A MINIMUM OF 95% OF ITS MAXIMUM DRY DENSITY UNDER ROADWAYS (TYP).

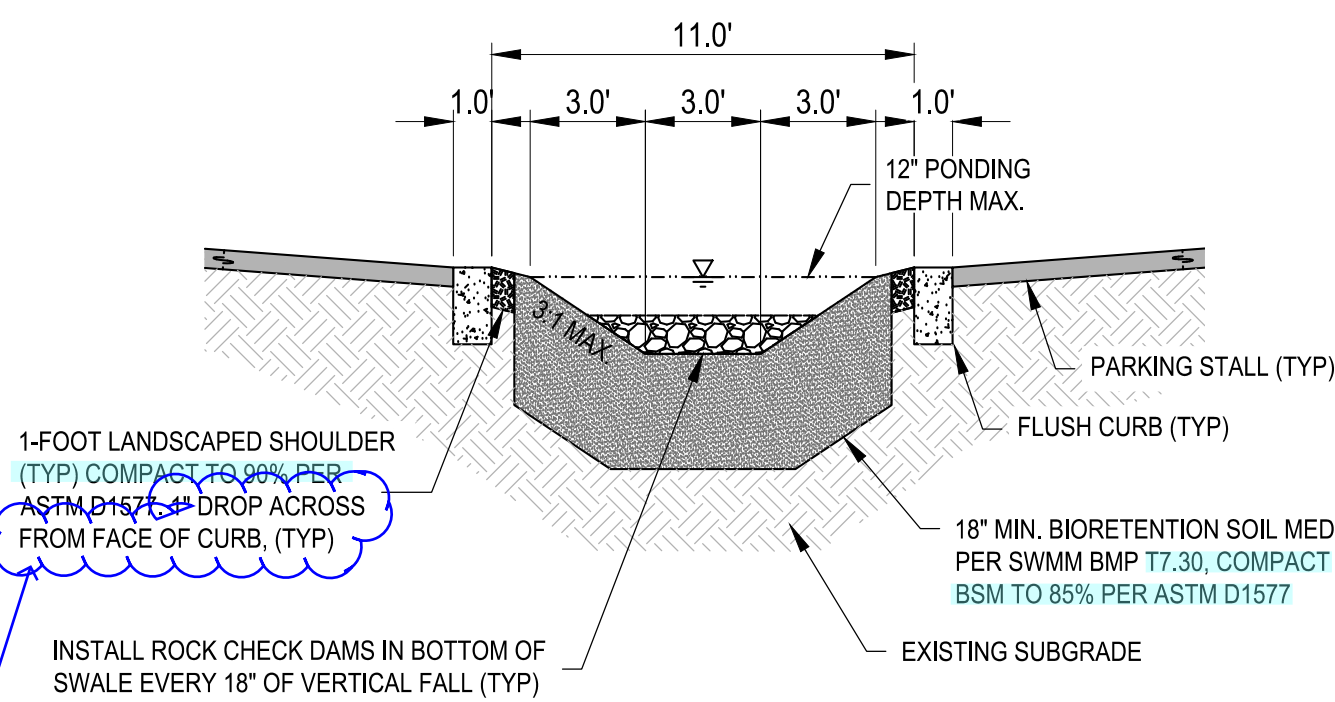
Verify 46-in max places bottom of footing exactly at bottom of biocell. (H=0.5*1.2+0.33*1+0.5 = 45.96inches) (Plans: SH TS-01)



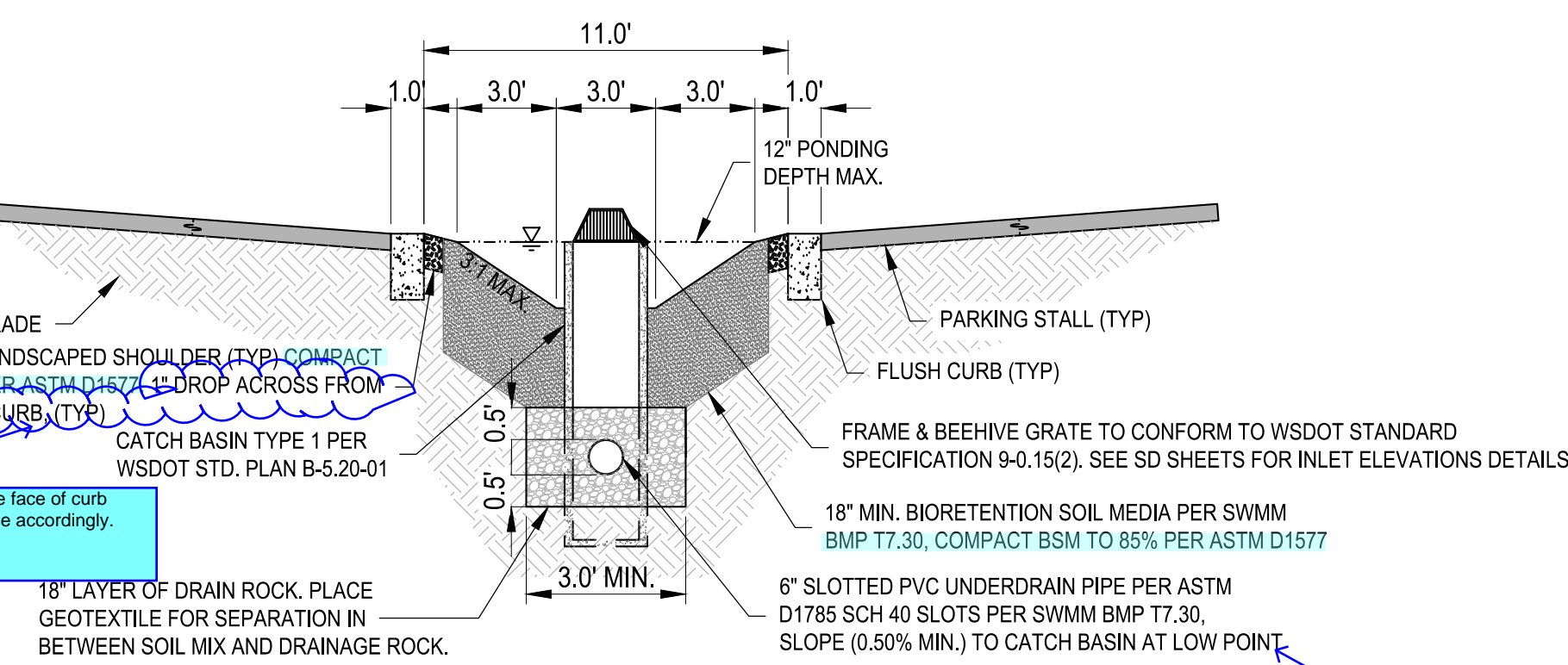
WALLED INFILTRATION PLANTER SECTION
NO SCALE

GENERAL NOTE

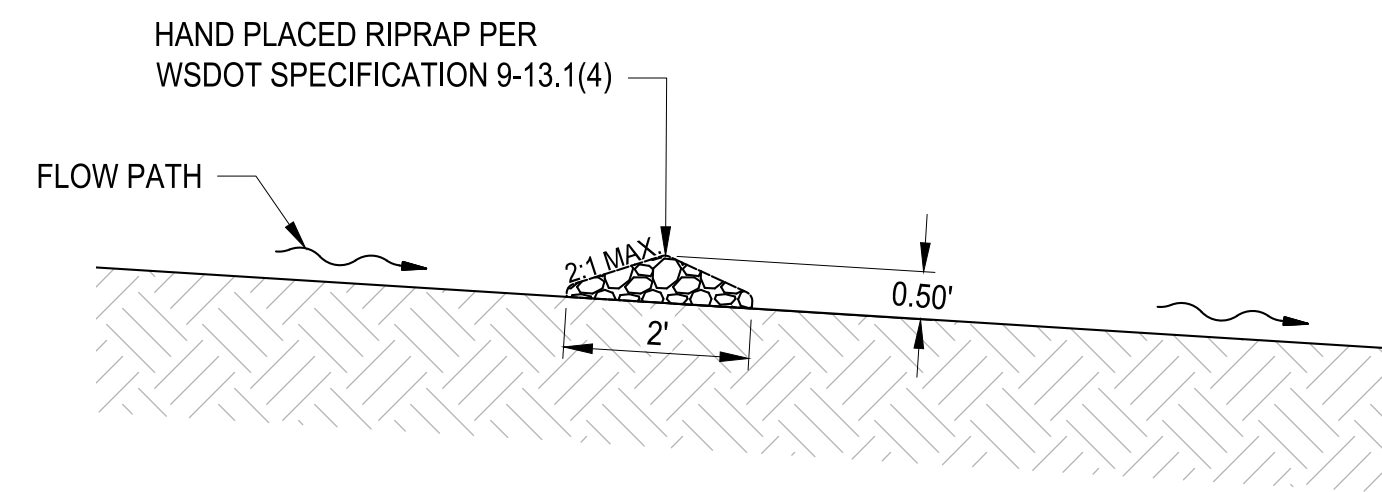
1. WALLS OVER 48-INCHES FROM BOTTOM OF FOOTING TO TOP OF WALL REQUIRE SEPARATE BUILDING PERMIT.



WATER QUALITY SWALE SECTION
NO SCALE



WATER QUALITY SWALE WITH UNDER DRAIN SECTION
NO SCALE



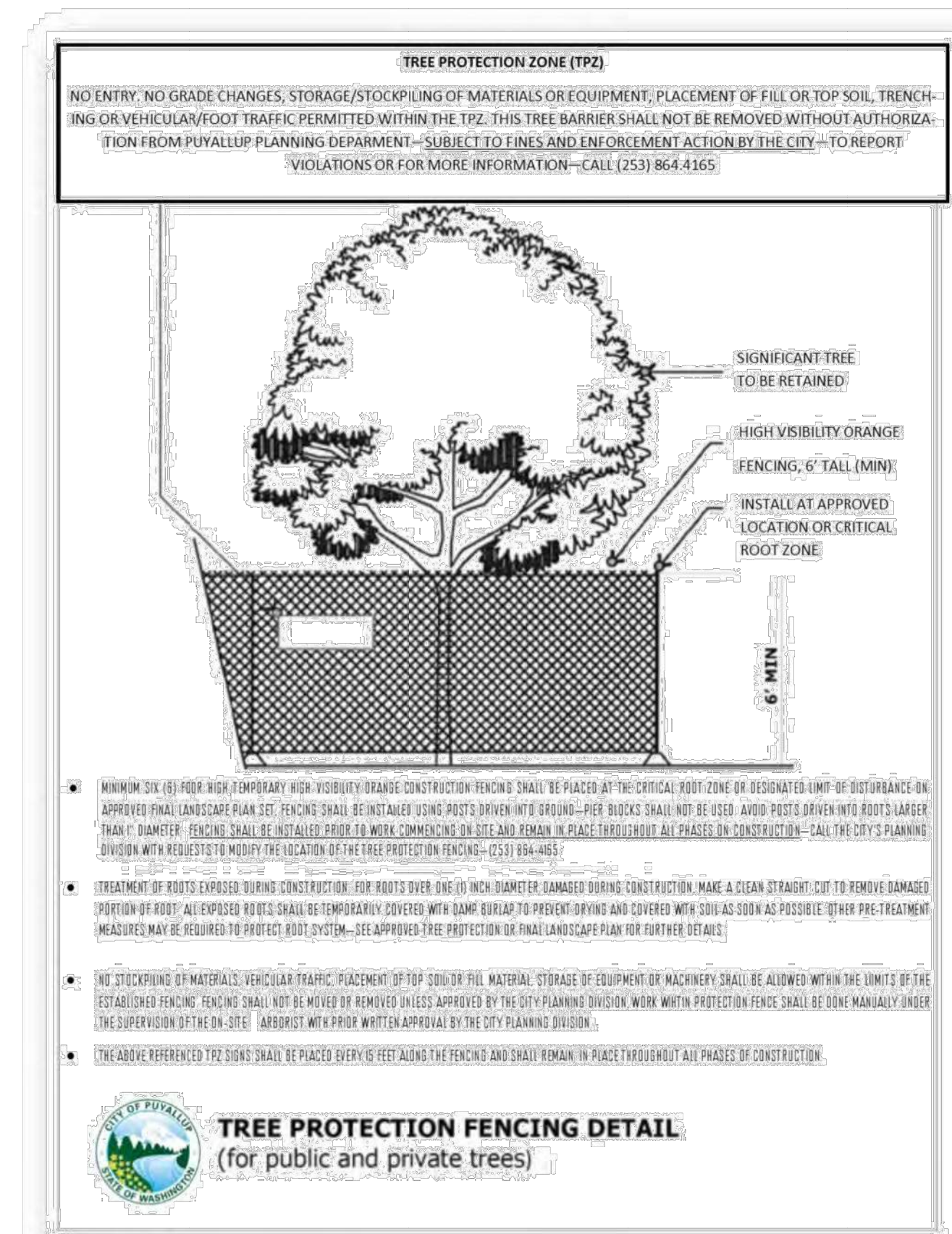
ROCK CHECK DAM SECTION
NO SCALE

Provide underdrain sizing calcs (length and perforations) in the storm report for Alignment H considering tributary area to bioswale and Ecology requirement to drain the BSM within 48 hours. (Plans: SH TS-01)



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APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
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TREE PROTECTION FENCING DETAIL
(for public and private trees)

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL



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 P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

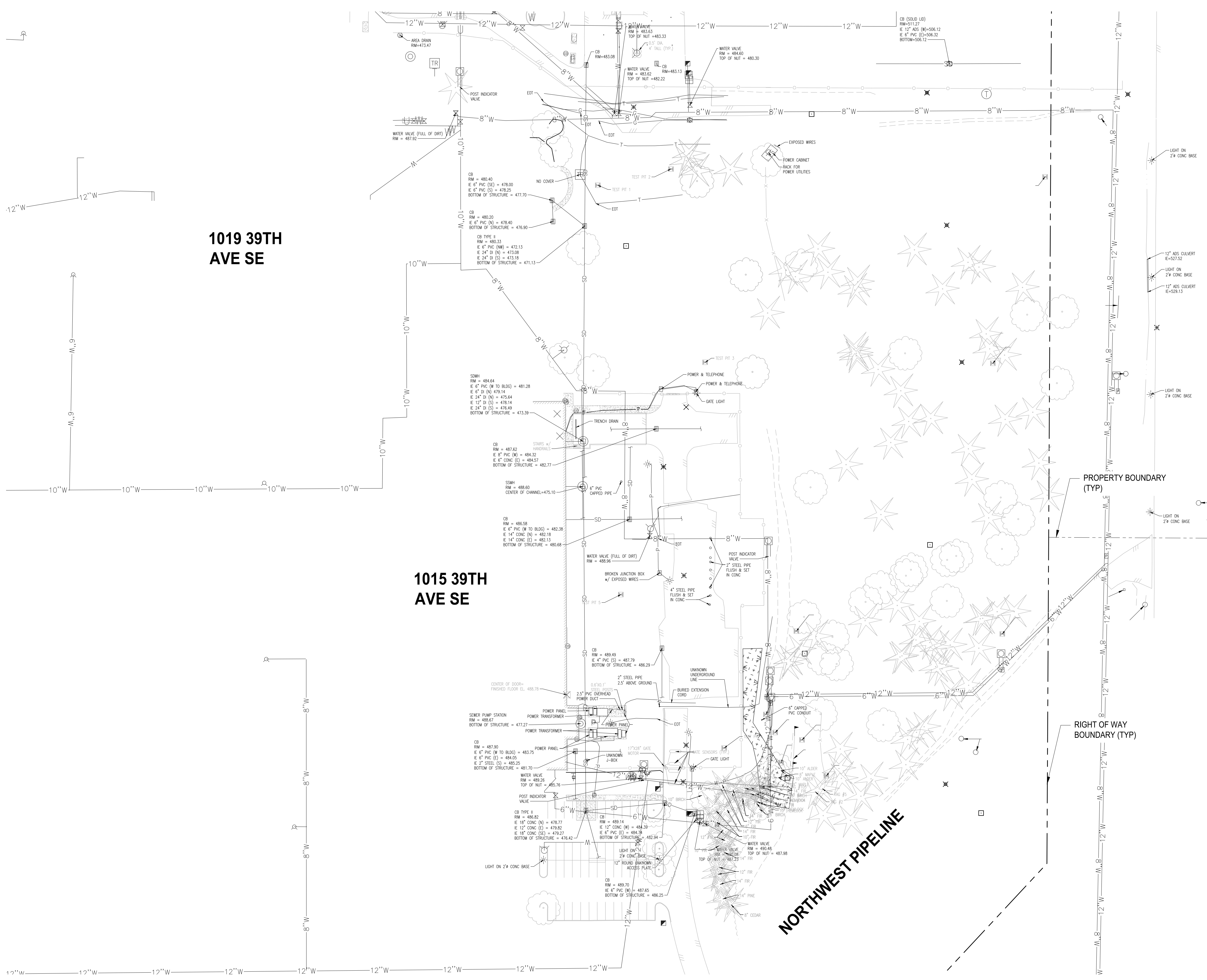
TYPICAL SECTIONS

DRAWING NO.
04 OF 58
TS-01

REVISIONS	DATE	BY	DESIGNED	CHECKED	APPROVED
			WZG	RLP	DMS

ONE INCH AT FULL SCALE.
 IF NOT, SCALE ACCORDINGLY
 FILE NAME: 01-PS0731200C-CV
 JOB No: 217-7312-004
 DATE: MARCH 2022

LAYOUT: EX-01
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 PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:38:17 AM



APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
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1019 39TH AVE SE

1015 39TH AVE SE

NORTHWEST PIPELINE

PROPERTY BOUNDARY (TYP)

RIGHT OF WAY BOUNDARY (TYP)

NOTE:
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

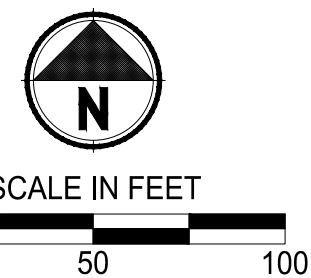
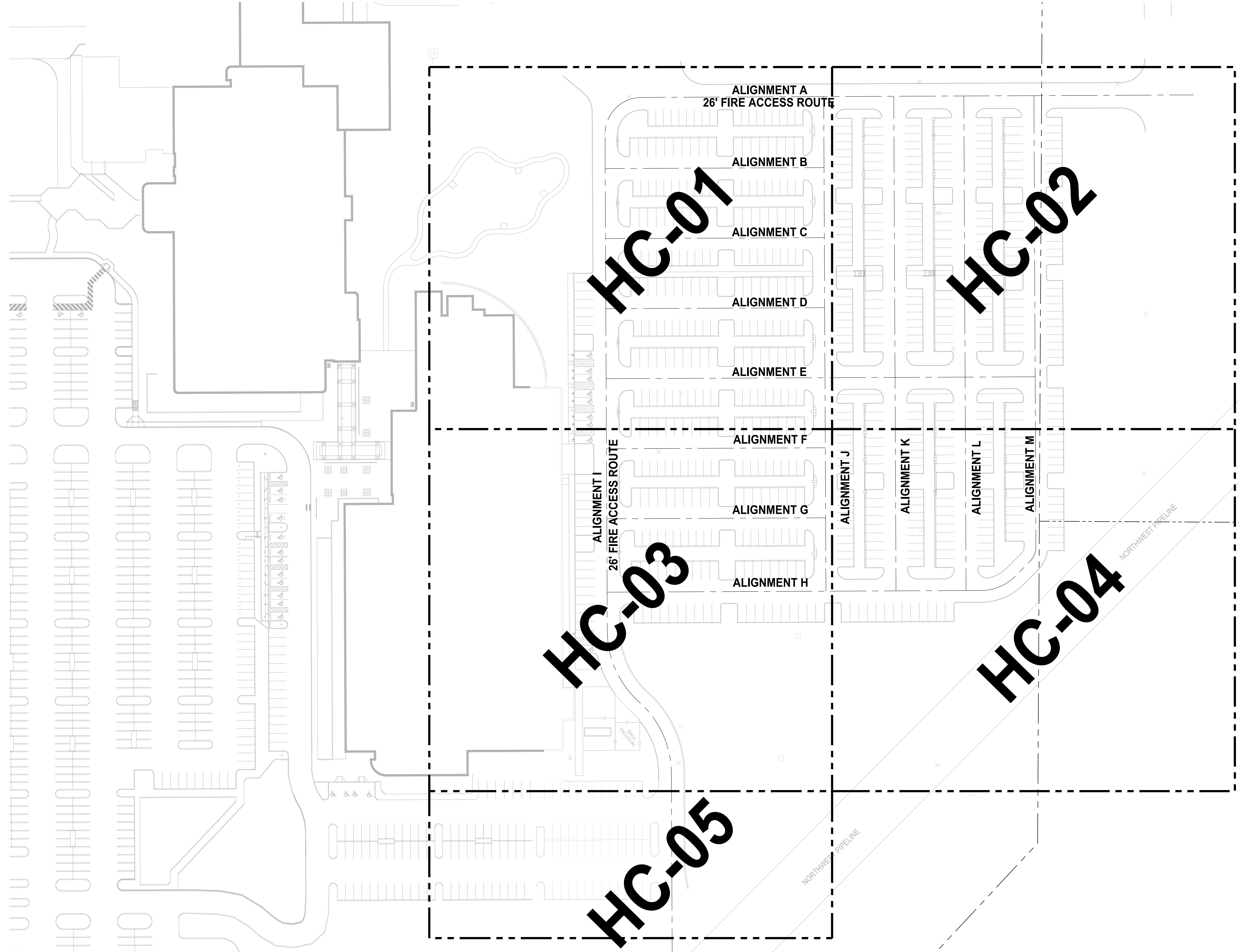
EXISTING SITE PLAN

DRAWING NO.
 05 OF 58
EX-01

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q1-PS0731200C-CV
 JOB No: 217-7312-004
 DATE: MARCH 2022

LAYOUT: HC-00 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_SIB&TParkingExpansion\988Seas\CAD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:38:49 AM



APPROVED
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 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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HORIZONTAL DATUM
 NAD 83/96, WASHINGTON STATE PLANE COORDINATE SYSTEM SOUTH ZONE.
 ARRIVED BY USING WASHINGTON STATE REFERENCE NETWORK (WSRN).

VERTICAL DATUM
 NAVD 88 PER WSRN: (SEE TABLE BELOW FOR SITE BENCH MARKS)

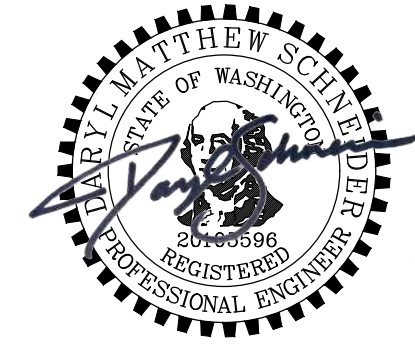
PARAMETRIX CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1001	671192.08	1197842.54	483.86	SET MAG NAIL
1003	670883.39	1197896.60	488.16	SET PK NAIL
9001	670710.15	1197894.27	489.72	SET MAG NAIL
10000	670497.91	1197893.61	490.02	SET MAG NAIL
10540	670535.60	1197896.50	490.48	SET MAG NAIL
20002	671206.88	1198144.42	512.84	SET 60d NAIL
20004	670465.74	1198200.14	520.42	SET HUB & MAGNAIL
20006	670241.18	1197960.17	495.55	SET MAG NAIL

HC-01
 HC-02
 HC-03
 HC-04
 HC-05

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

REVISIONS	DATE	BY	DESIGNED	CHECKED	APPROVED
			WZG	RLP	DMS
					DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: 02-PS0731200C-HC
 JOB No.: 217-7312-004
 DATE: MARCH 2022



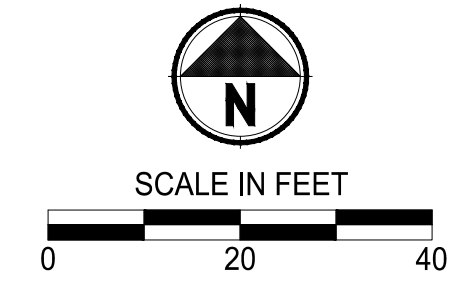
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HORIZONTAL CONTROL PLAN COMPOSITE

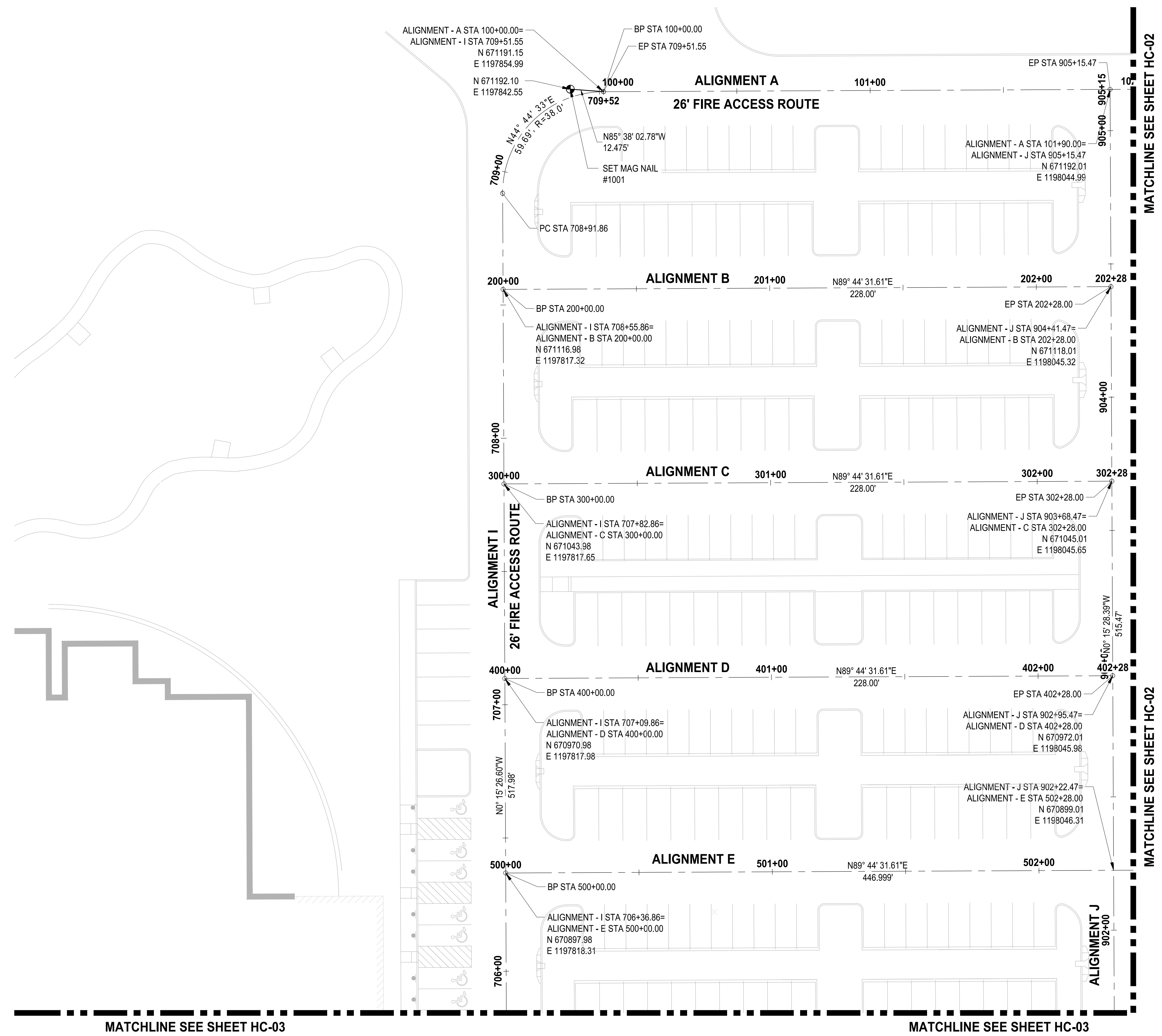
DRAWING NO.
 06 OF 58
HC-00

LAYOUT: HC-01
 PATH: U:\P50\Projects\Clients\7312-Berkeley\217-7312-004_SHB&TCParkingExpansion\985\svs\CADD\DWG_PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:39:53 AM



APPROVED

BY _____ CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE _____
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MATCHLINE SEE SHEET HC-03

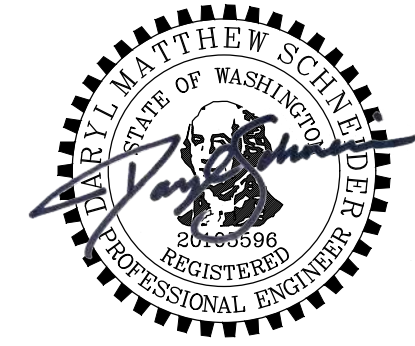
MATCHLINE SEE SHEET HC-03

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

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 IF NOT, SCALE ACCORDINGLY**
 FILE NAME:
 02-PS0731200C-HC
 JOB No.
 217-7312-004
 DATE
 MARCH 2022



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PROJECT NAME
**SOUTH HILL BUSINESS &
 TECHNOLOGY CENTER
 PARKING EXPANSION**
 PUYALLUP, WA

HORIZONTAL CONTROL PLAN

DRAWING NO.
 07 OF 58
HC-01

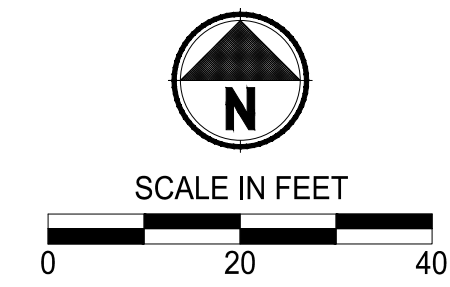
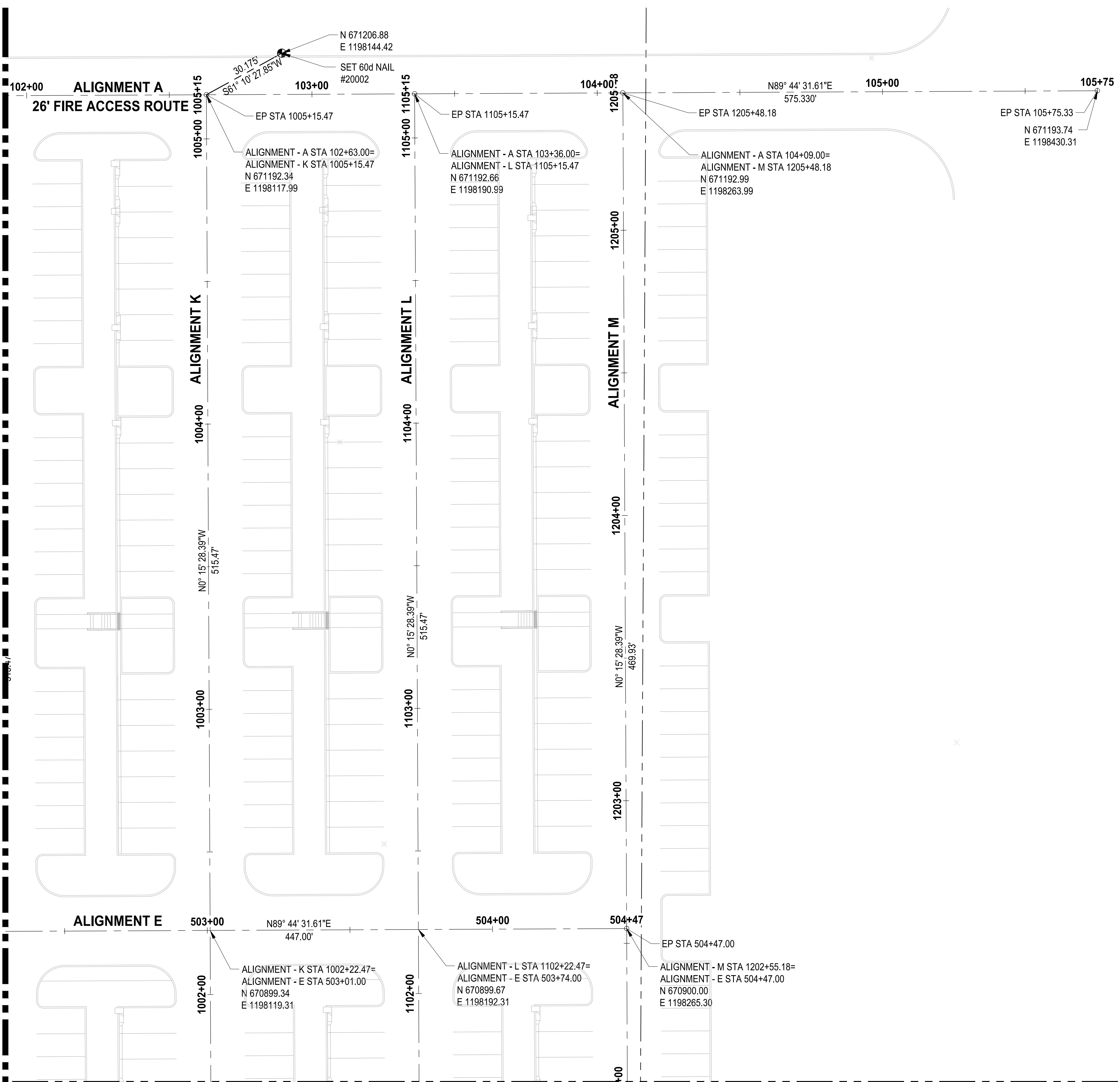
LAYOUT: HC-02 PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004-SIB&TParkingExpansion\988Seas\CADD\DWG PLOTTED BY: pettinus DATE: Friday, March 4, 2022 10:38:57 AM

MATCHLINE SEE SHEET HC-01

MATCHLINE SEE SHEET HC-01

MATCHLINE SEE SHEET HC-04

MATCHLINE SEE SHEET HC-04



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BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT

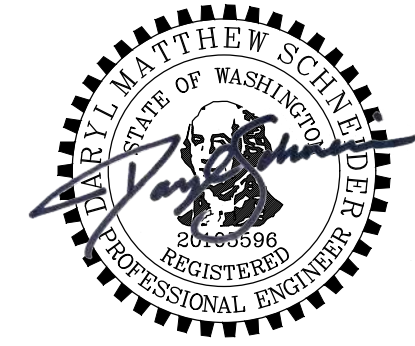
DATE: _____

NOTE:
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REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

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FILE NAME: 02-PS0731200C-HC
 JOB No: 217-7312-004
 DATE: MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

NOTE: SYMBOLS NOT TO SCALE

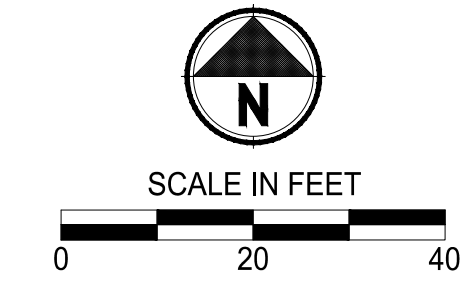
100% REVIEW SUBMITTAL

HORIZONTAL CONTROL PLAN

DRAWING NO. 08 OF 58
HC-02

MATCHLINE SEE SHEET HC-01

MATCHLINE SEE SHEET HC-01



Know what's below.
Call before you dig.

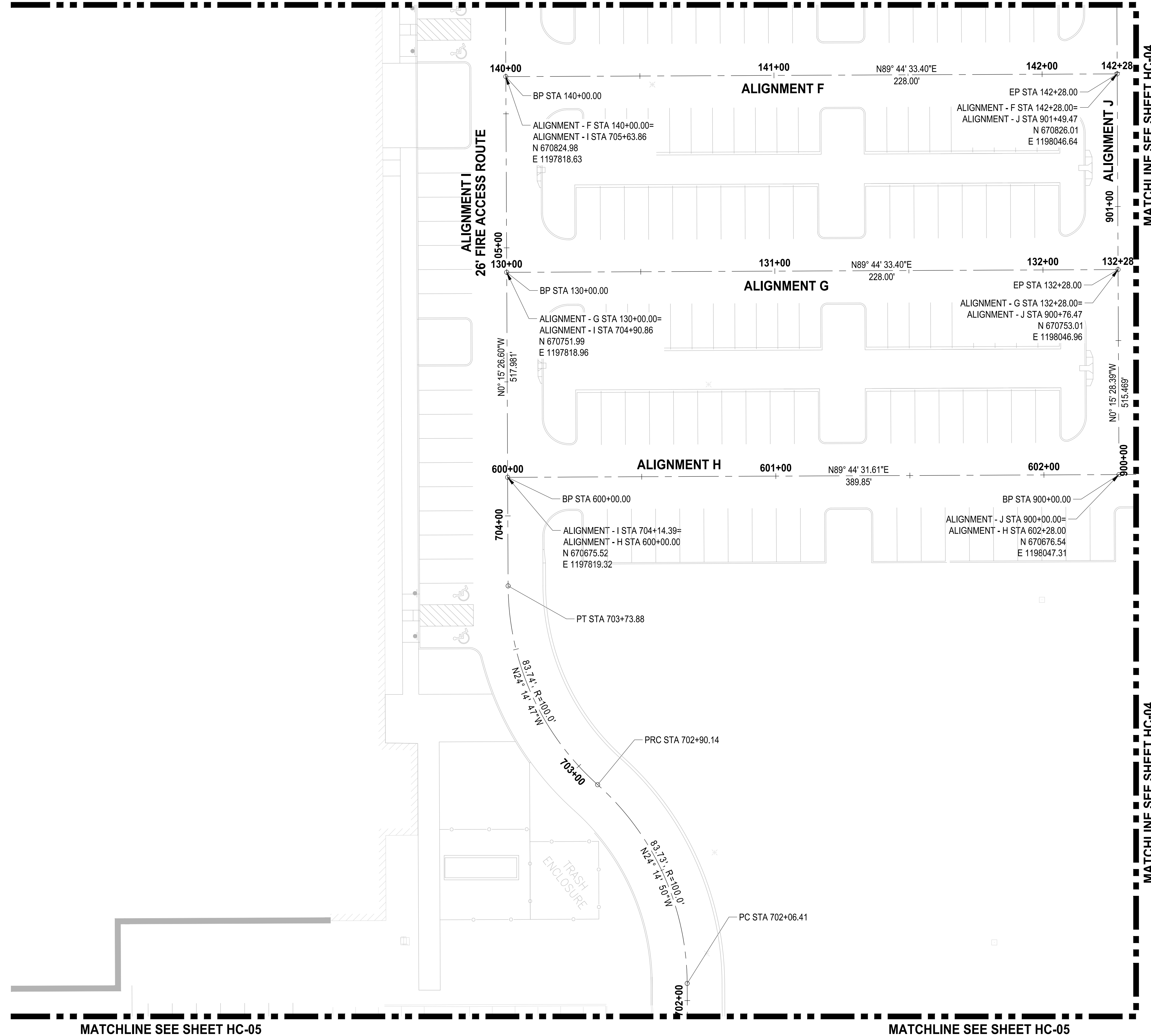
APPROVED

BY _____
CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE _____

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engineer.



MATCHLINE SEE SHEET HC-05

MATCHLINE SEE SHEET HC-05

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LAYOUT: HC-03 PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004-SH&T\PC\parking\expansion\985\Drawings\CAD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:46:00 AM

REVISIONS	DATE	BY	DESIGNED WZG

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FILE NAME
02-PS0731200C-HC

JOB No.
217-7312-004

DATE
MARCH 2022



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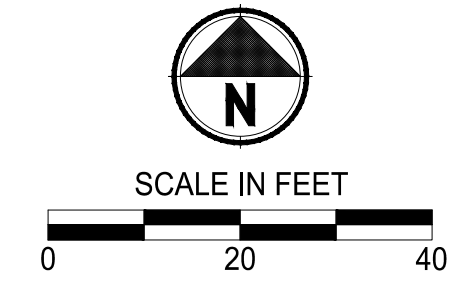
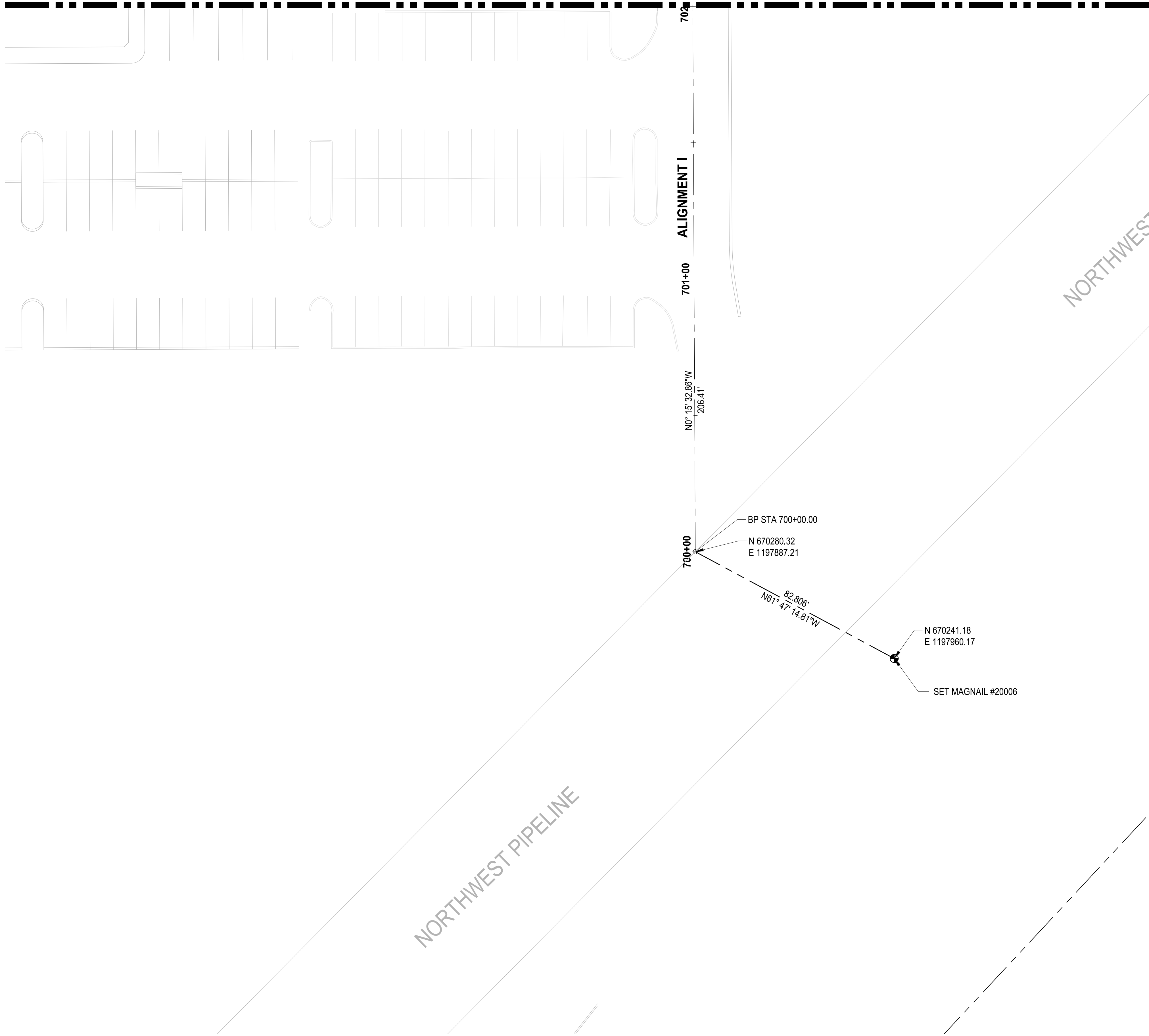
PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

HORIZONTAL CONTROL PLAN

DRAWING NO.
09 OF 58
HC-03

MATCHLINE SEE SHEET HC-03

MATCHLINE SEE SHEET HC-03



APPROVED

BY _____
CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE _____

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LAYOUT: HC-05 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TCParkingExpansion\988Sev\Cad\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:46:07 AM

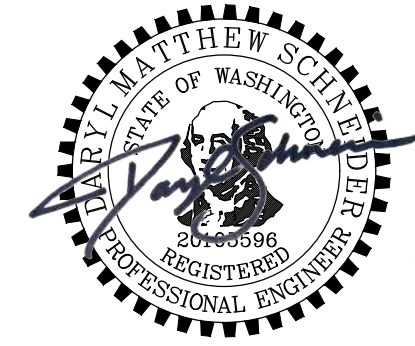
REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			RLP
			CHECKED
			DMS
			APPROVED
			DMS

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FILE NAME
02-PS0731200C-HC

JOB No.
217-7312-004

DATE
MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

NOTE: SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

HORIZONTAL CONTROL PLAN

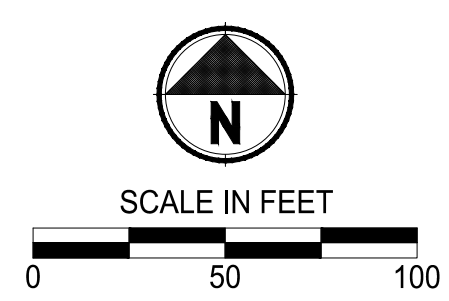
DRAWING NO.
11 OF 58
HC-05

APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

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LEGEND:

- HIGH VISIBILITY FENCE
- SILTATION FENCE
- TREE PROTECTION FENCING
- SAWCUT LINE
- DEMOLITION AND REMOVAL
- TEMPORARY INTERCEPTOR SWALE
- STORM DRAIN/INLET BARRIER PROTECTION
- EXISTING STORMWATER FLOW
- EXISTING GRAVEL AREA
- CLEARING AND GRUBBING AREA
- REMOVE EXISTING ASPHALT/CONCRETE
- TEMPORARY SEDIMENT TRAP

GENERAL NOTES:

1. ALL DISTURBED AREAS TO BE STABILIZED TO PRE-CONSTRUCTION CONDITION OR BETTER.
2. EXISTING PAVEMENT TO BE REMOVED AND MAY BE PULVERIZED AND USED AS BASE MATERIAL IF APPROVED BY GEOTECH AND CITY INSPECTOR.
3. CONTRACTOR TO POTHOLE ALL UTILITY LOCATIONS BEFORE PROPOSED CONNECTIONS ARE MADE.
4. EXISTING BUILDINGS TO BE PROTECTED AT ALL POINTS OF CONSTRUCTION.
5. BIORETENTION AREAS ARE TO BE PROTECTED FROM CONSTRUCTION SEDIMENT ENTERING AND COLLECTING DEBRIS FOLLOWING INITIAL GRADING.
6. HEAVY MACHINERY AND EXCAVATION IS TO BE LIMITED NEAR BIORETENTION AREAS TO PREVENT SOIL COMPACTION. HIGH VISIBILITY FENCING OR BUFFER ZONES MAY BE NECESSARY TO MARK CONSTRUCTION LIMITS.
7. AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR THE OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.
8. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
9. SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
10. ANY PERMANENT INFILTRATION SYSTEM SHALL NOT BE UTILIZED FOR TESC RUNOFF.

CONSTRUCTION NOTES:

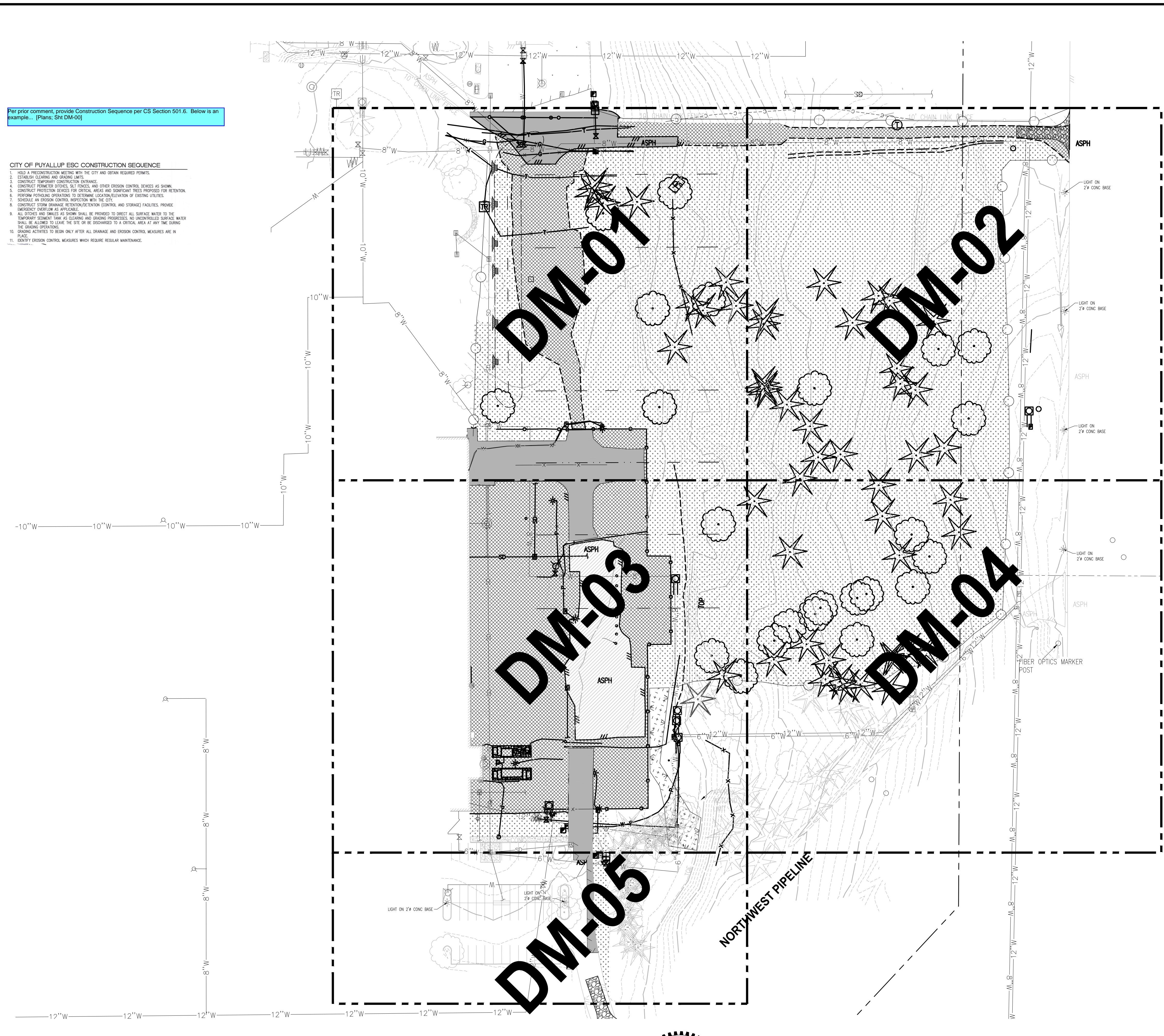
- 1 MAINTAIN AND PROTECT EXISTING UTILITIES.
- 2 PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
- 3 PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
- 4 ADJUST EXISTING UTILITY TO FINISHED GRADE.
- 5 REMOVE SITE FEATURE.
- 6 INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
- 7 INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
- 8 EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
- 9 INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
- 10 INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

Per prior comment, provide Construction Sequence per CS Section 501.6. Below is an example... (Plans, Sht DM-00)

- CITY OF PUYALLUP ESC CONSTRUCTION SEQUENCE**
1. HOLD A PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
 2. ESTABLISH CLEARING AND GRUBBING LIMITS.
 3. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE.
 4. CONSTRUCT PERMITS DITCHES, SILT FENCES, AND OTHER EROSION CONTROL DEVICES AS SHOWN.
 5. CONSTRUCT PROTECTION DEVICES FOR CRITICAL AREAS AND SOILWORK (SEE PROPOSED) FOR RETENTION.
 6. PERFORM POTHOLE OPERATIONS TO DETERMINE LOCATION/ELEVATION OF EXISTING UTILITIES.
 7. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
 8. CONSTRUCT STORM DRAINAGE RETENTION/DETENTION (CONTROL AND STORAGE) FACILITIES. PROVIDE EMERGENCY OVERFLOW AS APPLICABLE.
 9. ALL DITCHES AND SWALES AS SHOWN SHALL BE PROVIDED TO DRAIN ALL SURFACE WATER TO THE TEMPORARY SEDIMENT TANK AS CLEARING AND GRUBBING PROCEEDS. NO UNCONTROLLED SURFACE WATER SHALL BE ALLOWED TO LEAVE THE SITE OR BE DISCHARGED TO A CRITICAL AREA AT ANY TIME DURING THE GRUBBING OPERATIONS.
 10. GRUBBING ACTIVITIES TO BEGIN ONLY AFTER ALL DRAINAGE AND EROSION CONTROL MEASURES ARE IN PLACE.
 11. IDENTIFY EROSION CONTROL MEASURES WHICH REQUIRE REGULAR MAINTENANCE.



LAYOUT: DM-00 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_Site&TParkingExpansion\98Sves\CAADD\DWG PLOTTED BY: peltrus DATE: Friday, March 4, 2022 10:40:35 AM

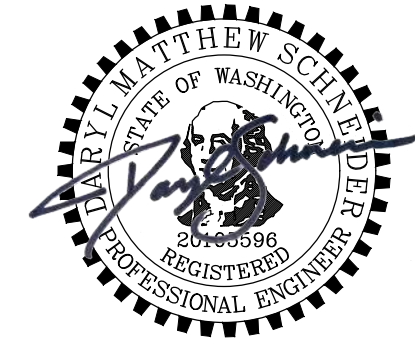
REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			FLP
			CHECKED
			DMS
			APPROVED
			DMS

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FILE NAME
03-PSO731200C-DM

JOB No.
217-7312-004

DATE
MARCH 2022



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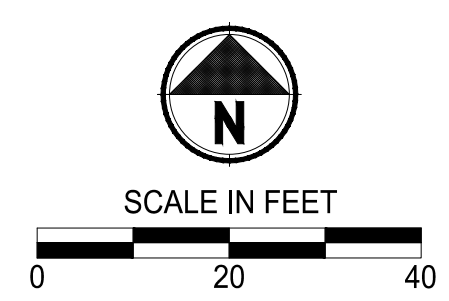
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P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

DEMOLITION, TESC, CLEARING & GRUBBING COMPOSITE PLAN

DRAWING NO.
12 OF 58
DM-00

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
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LEGEND:

- HIGH VISIBILITY FENCE
- SILTATION FENCE
- TREE PROTECTION FENCING
- SAWCUT LINE
- DEMOLITION AND REMOVAL
- TEMPORARY INTERCEPTOR SWALE
- STORM DRAIN/INLET BARRIER PROTECTION
- EXISTING STORMWATER FLOW
- EXISTING GRAVEL AREA
- CLEARING AND GRUBBING AREA
- REMOVE EXISTING ASPHALT/CONCRETE
- TEMPORARY SEDIMENT TRAP

GENERAL NOTES:

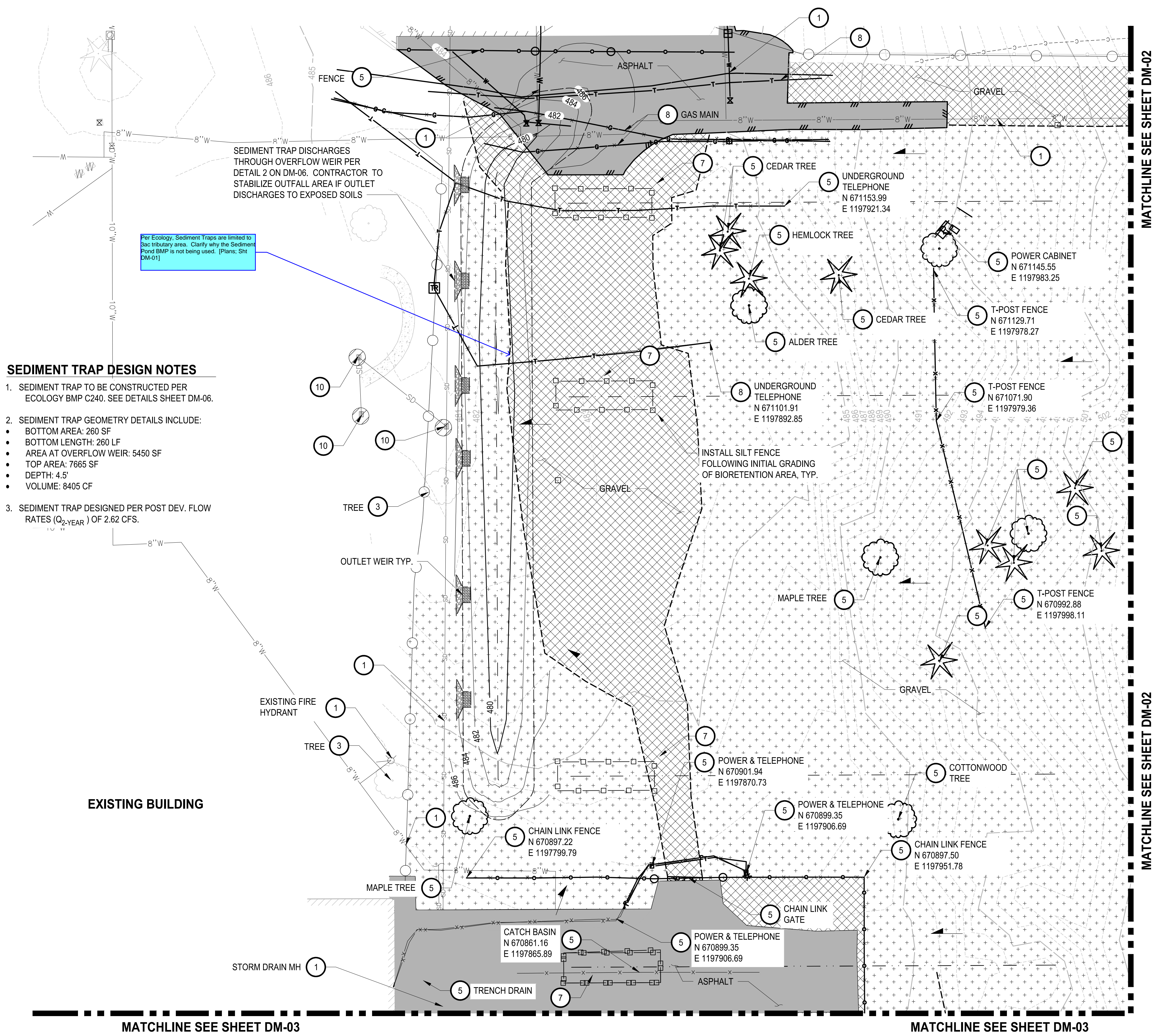
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8. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
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CONSTRUCTION NOTES:

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- 2 PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
- 3 PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
- 4 ADJUST EXISTING UTILITY TO FINISHED GRADE.
- 5 REMOVE SITE FEATURE.
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- 7 INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
- 8 EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
- 9 INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
- 10 INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE:
 SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL



SEDIMENT TRAP DISCHARGES THROUGH OVERFLOW WEIR PER DETAIL 2 ON DM-06. CONTRACTOR TO STABILIZE OUTFALL AREA IF OUTFLET DISCHARGES TO EXPOSED SOILS

Per Ecology, Sediment Traps are limited to Sac tributary area. Clarify why the Sediment Pond BMP is not being used. (Plans: Sht DM-01)

SEDIMENT TRAP DESIGN NOTES

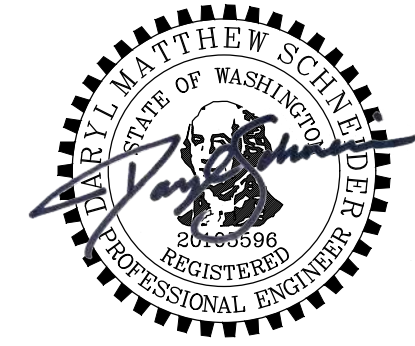
1. SEDIMENT TRAP TO BE CONSTRUCTED PER ECOLOGY BMP C240. SEE DETAILS SHEET DM-06.
2. SEDIMENT TRAP GEOMETRY DETAILS INCLUDE:
 - BOTTOM AREA: 260 SF
 - BOTTOM LENGTH: 260 LF
 - AREA AT OVERFLOW WEIR: 5450 SF
 - TOP AREA: 7665 SF
 - DEPTH: 4.5'
 - VOLUME: 8405 CF
3. SEDIMENT TRAP DESIGNED PER POST DEV. FLOW RATES (Q_{2-YEAR}) OF 2.62 CFS.

EXISTING BUILDING

LAYOUT: DM-01 | PATH: U:\PDSO\Projects\Clients\7312-Benaroya\217-7312-004_SIB&TCParkingExpansion\985\CAADD\DWG | PLOTTED BY: petrus | DATE: Friday, March 4, 2022 10:40:39 AM

NO.	REVISIONS	DATE	BY	DESIGNED	CHECKED	APPROVED
				WZG	RLP	DMS

ONE INCH AT FULL SCALE.
 IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q3-P30731200C-DM
 JOB No: 217-7312-004
 DATE: MARCH 2022



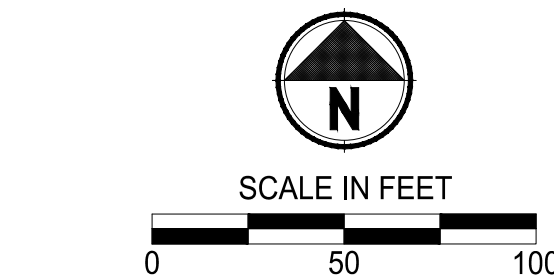
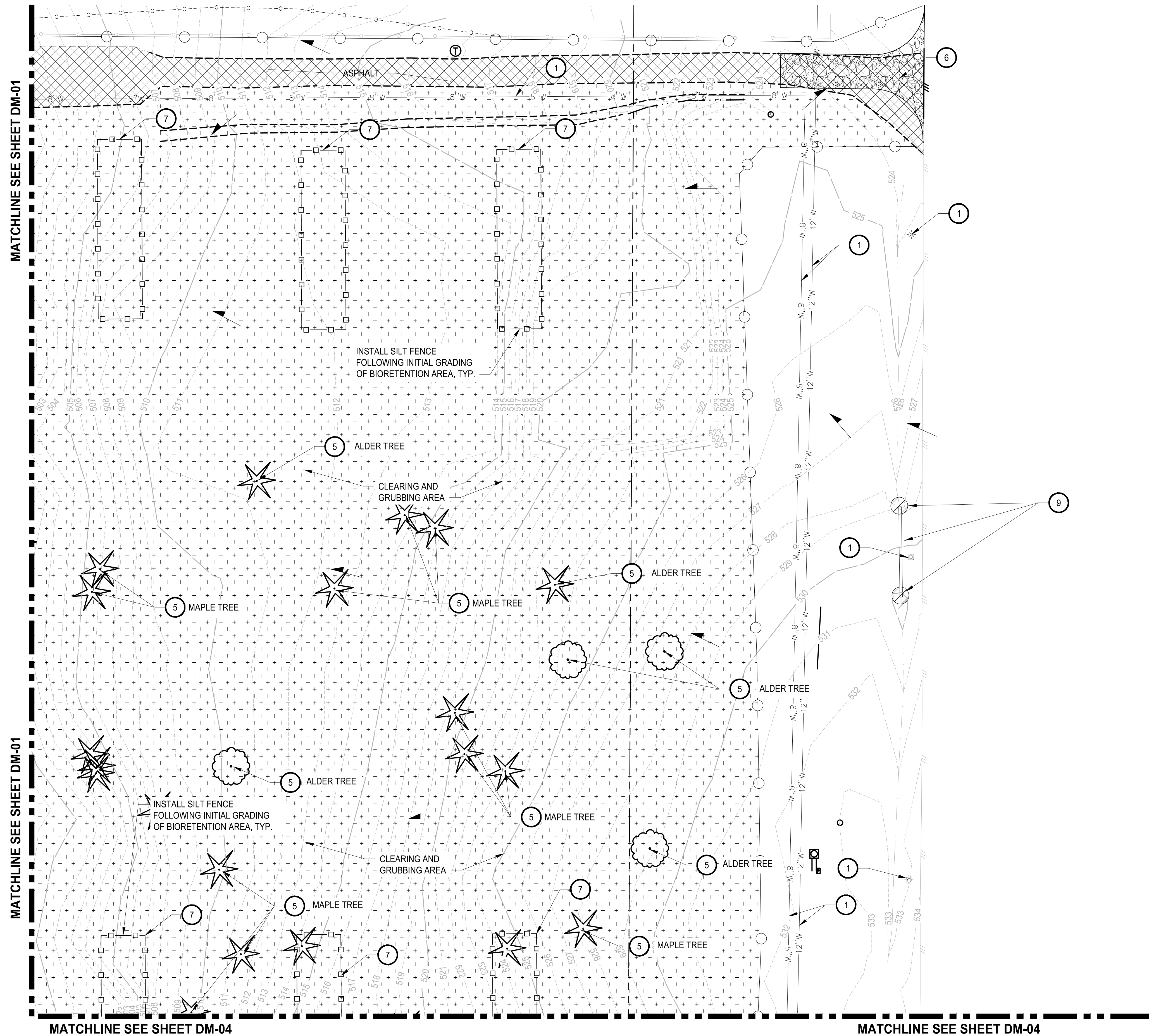
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

DEMOLITION, TESC, CLEARING & GRUBBING PLAN

DRAWING NO.
DM-01
 13 OF 58

LAYOUT: DM-02 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_Site&TParkingExpansion\985\Drawings\CAAD\DWG PLOTTED BY: peltrus DATE: Friday, March 4, 2022 10:40:44 AM



APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
 Field conditions may dictate changes to these plans as determined by the City Engineer.

- LEGEND:**
- HIGH VISIBILITY FENCE
 - SILTATION FENCE
 - TREE PROTECTION FENCING
 - SAWCUT LINE
 - DEMOLITION AND REMOVAL
 - TEMPORARY INTERCEPTOR SWALE
 - STORM DRAIN/INLET BARRIER PROTECTION
 - EXISTING STORMWATER FLOW
 - EXISTING GRAVEL AREA
 - CLEARING AND GRUBBING AREA
 - REMOVE EXISTING ASPHALT/CONCRETE
 - TEMPORARY SEDIMENT TRAP

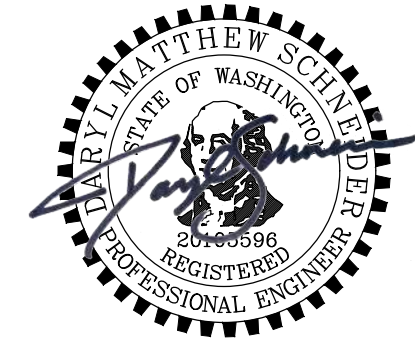
- GENERAL NOTES:**
1. ALL DISTURBED AREAS TO BE STABILIZED TO PRE-CONSTRUCTION CONDITION OR BETTER.
 2. EXISTING PAVEMENT TO BE REMOVED AND MAY BE PULVERIZED AND USED AS BASE MATERIAL IF APPROVED BY GEOTECH AND CITY INSPECTOR.
 3. CONTRACTOR TO POT-HOLE ALL UTILITY LOCATIONS BEFORE PROPOSED CONNECTIONS ARE MADE.
 4. EXISTING BUILDINGS TO BE PROTECTED AT ALL POINTS OF CONSTRUCTION.
 5. BIORETENTION AREAS ARE TO BE PROTECTED FROM CONSTRUCTION SEDIMENT ENTERING AND COLLECTING DEBRIS FOLLOWING INITIAL GRADING.
 6. HEAVY MACHINERY AND EXCAVATION IS TO BE LIMITED NEAR BIORETENTION AREAS TO PREVENT SOIL COMPACTION. HIGH VISIBILITY FENCING OR BUFFER ZONES MAY BE NECESSARY TO MARK CONSTRUCTION LIMITS.
 7. AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR THE OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.
 8. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
 9. SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
 10. ANY PERMANENT INFILTRATION SYSTEM SHALL NOT BE UTILIZED FOR TESC RUNOFF.

- CONSTRUCTION NOTES:**
1. MAINTAIN AND PROTECT EXISTING UTILITIES.
 2. PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
 3. PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
 4. ADJUST EXISTING UTILITY TO FINISHED GRADE.
 5. REMOVE SITE FEATURE.
 6. INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
 7. INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
 8. EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
 9. INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
 10. INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	SLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: 03-PS0731200C-DM
 JOB No: 217-7312-004
 DATE: MARCH 2022



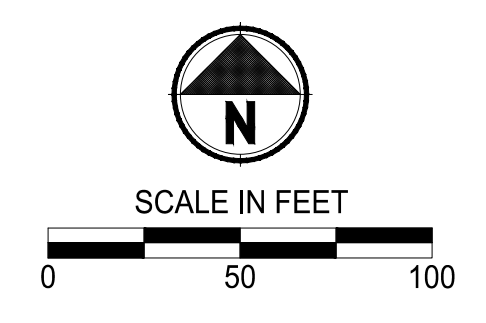
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

DEMOLITION, TESC, CLEARING & GRUBBING PLAN

DRAWING NO.
 14 OF 58
DM-02

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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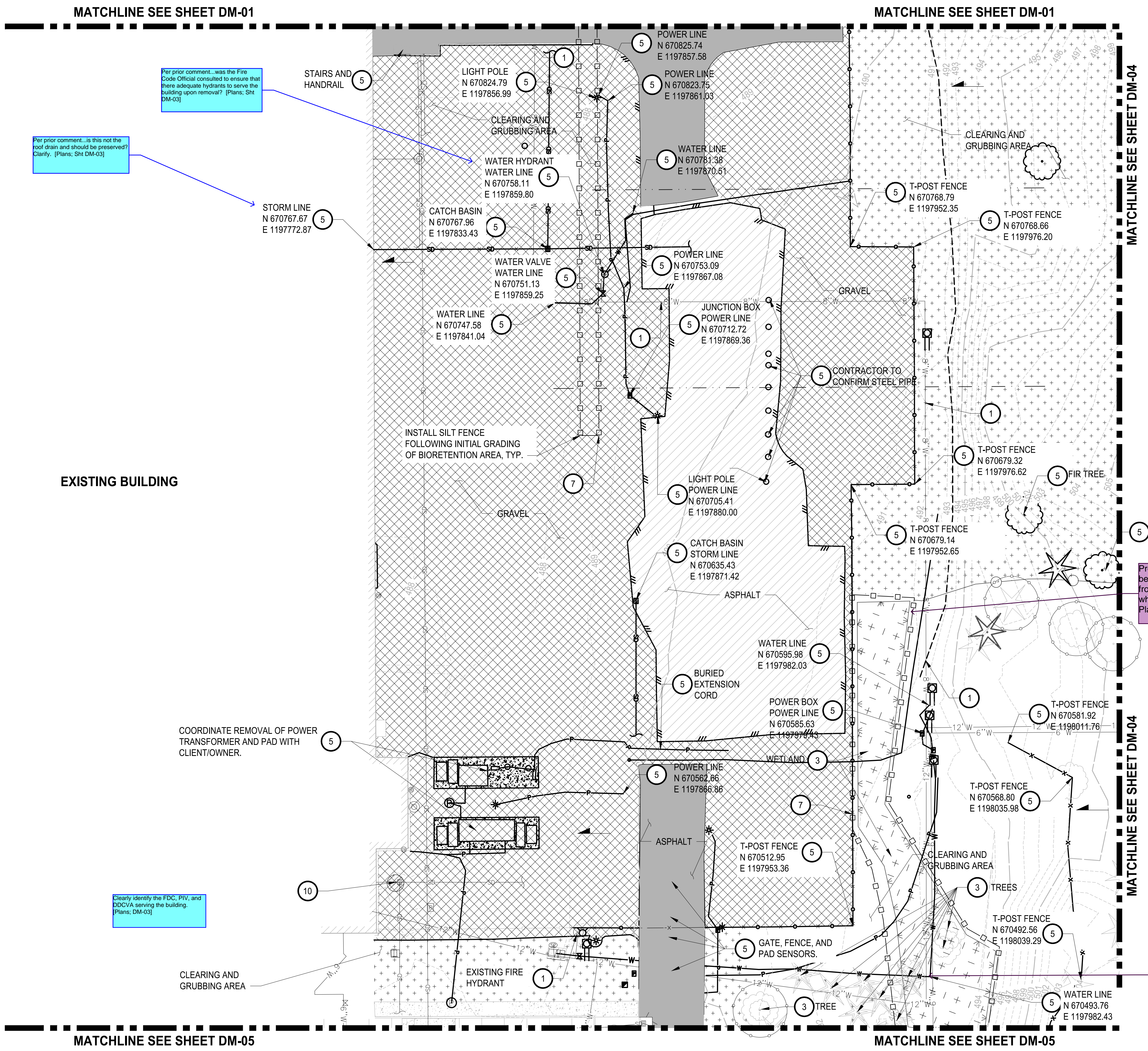


- LEGEND:**
- HIGH VISIBILITY FENCE
 - SILTATION FENCE
 - TREE PROTECTION FENCING
 - SAWCUT LINE
 - DEMOLITION AND REMOVAL
 - TEMPORARY INTERCEPTOR SWALE
 - STORM DRAIN/INLET BARRIER PROTECTION
 - EXISTING STORMWATER FLOW
 - EXISTING GRAVEL AREA
 - CLEARING AND GRUBBING AREA
 - REMOVE EXISTING ASPHALT/CONCRETE
 - TEMPORARY SEDIMENT TRAP

- GENERAL NOTES:**
1. ALL DISTURBED AREAS TO BE STABILIZED TO PRE-CONSTRUCTION CONDITION OR BETTER.
 2. EXISTING PAVEMENT TO BE REMOVED AND MAY BE PULVERIZED AND USED AS BASE MATERIAL IF APPROVED BY GEOTECH AND CITY INSPECTOR.
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 6. HEAVY MACHINERY AND EXCAVATION IS TO BE LIMITED NEAR BIORETENTION AREAS TO PREVENT SOIL COMPACTION. HIGH VISIBILITY FENCING OR BUFFER ZONES MAY BE NECESSARY TO MARK CONSTRUCTION LIMITS.
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 8. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
 9. SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
 10. ANY PERMANENT INFILTRATION SYSTEM SHALL NOT BE UTILIZED FOR TESC RUNOFF.

- CONSTRUCTION NOTES:**
- 1 MAINTAIN AND PROTECT EXISTING UTILITIES.
 - 2 PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
 - 3 PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
 - 4 ADJUST EXISTING UTILITY TO FINISHED GRADE.
 - 5 REMOVE SITE FEATURE.
 - 6 INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
 - 7 INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
 - 8 EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
 - 9 INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
 - 10 INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**



Per prior comment... was the Fire Code Official consulted to ensure that there adequate hydrants to serve the building upon removal? (Plans; Sht DM-03)

Per prior comment... is this not the roof drain and should be preserved? Clarify. (Plans; Sht DM-03)

Clearly identify the FDC, PIV, and DDCVA serving the building. (Plans; DM-03)

Protective fence should be set back 10' from wetland edge where possible. (Civil Plan, DM-03)

Please clarify how water line is being removed from under wetland (Civil Plan, DM-03)

LAYOUT: DM-03 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_Site&TParkingExpansion\98\Sev\CAAD\DWG PLOTTED BY: peltrus DATE: Friday, March 4, 2022 10:40:47 AM

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q3-PSO731200C-DM
 JOB No: 217-7312-004
 DATE: MARCH 2022



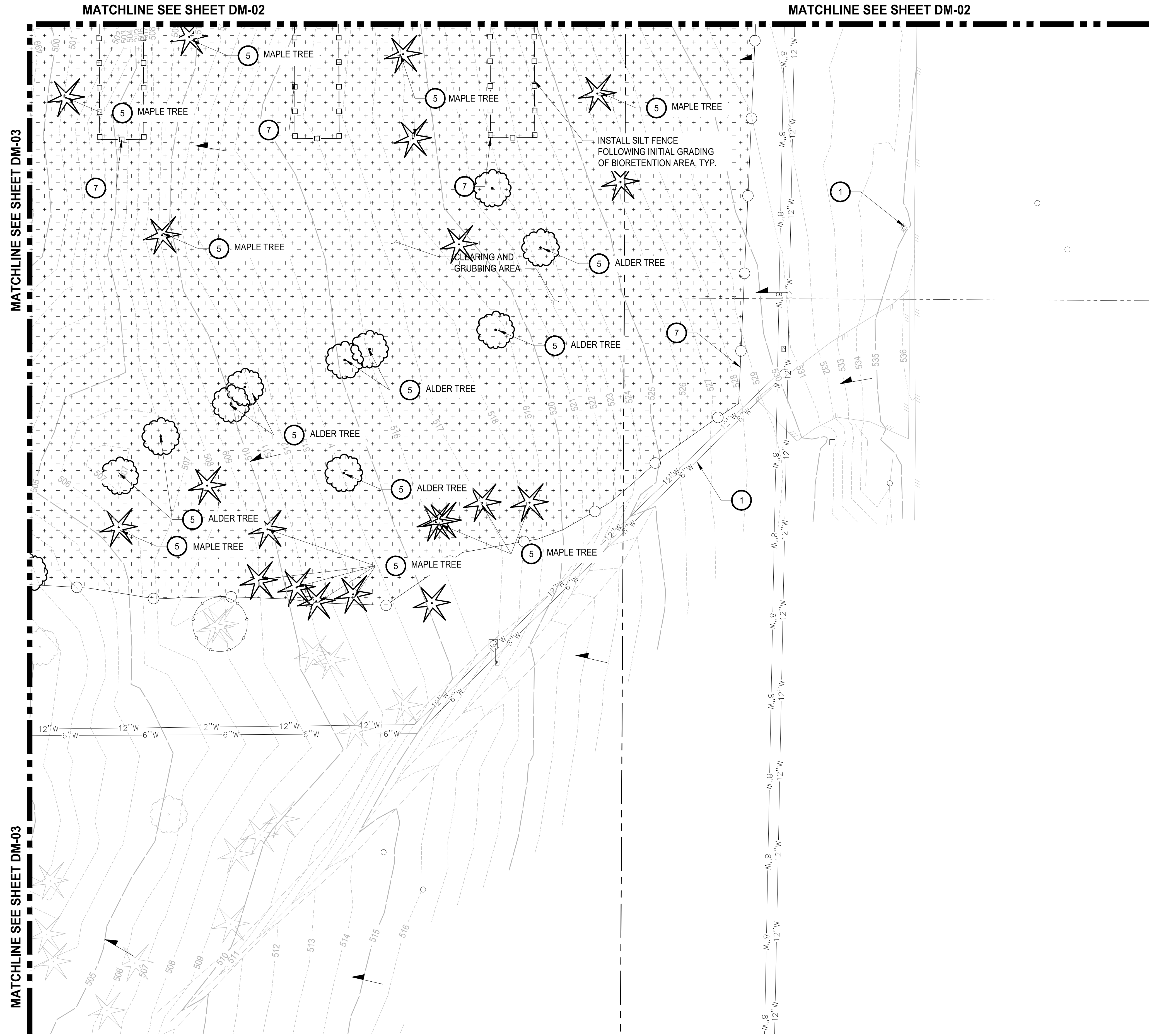
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

DEMOLITION, TESC, CLEARING & GRUBBING PLAN

DRAWING NO.
DM-03
 15 OF 58

LAYOUT: DM-04 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_Site&TParkingExpansion\985\Drawings\CAD\DWG PLOTTED BY: peltrus DATE: Friday, March 4, 2022 10:46:52 AM



APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field conditions may dictate changes to these plans as determined by the City Engineer.

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LEGEND:

- HIGH VISIBILITY FENCE
- SILTATION FENCE
- TREE PROTECTION FENCING
- SAWCUT LINE
- DEMOLITION AND REMOVAL
- TEMPORARY INTERCEPTOR SWALE
- STORM DRAIN/INLET BARRIER PROTECTION
- EXISTING STORMWATER FLOW
- EXISTING GRAVEL AREA
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- REMOVE EXISTING ASPHALT/CONCRETE
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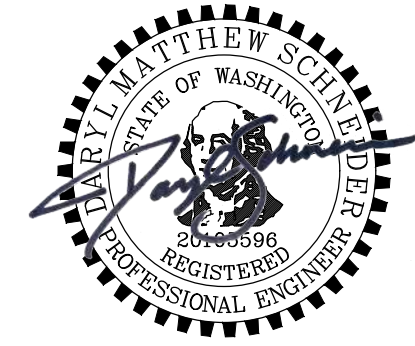
- CONSTRUCTION NOTES:**
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 - 2 PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
 - 3 PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
 - 4 ADJUST EXISTING UTILITY TO FINISHED GRADE.
 - 5 REMOVE SITE FEATURE.
 - 6 INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
 - 7 INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
 - 8 EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
 - 9 INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
 - 10 INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	SLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: 03-PS0731200C-DM
JOB No: 217-7312-004
DATE: MARCH 2022



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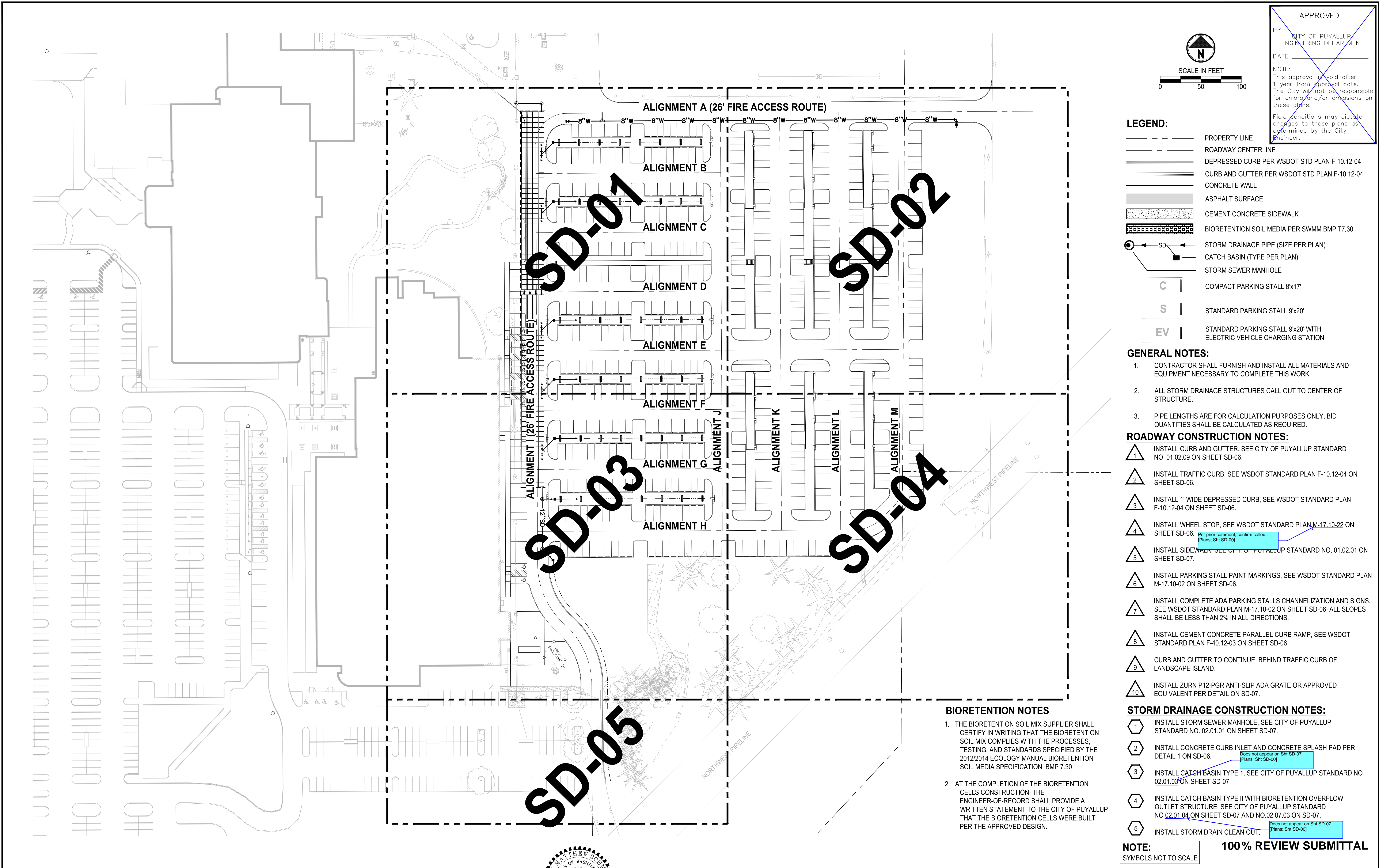
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

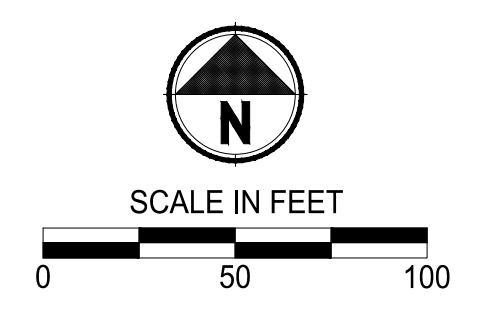
DEMOLITION, TESC, CLEARING & GRUBBING PLAN

DRAWING NO.
16 OF 58
DM-04

LAYOUT: SD-00 PATH: U:\PSD\Projects\Cheris\7312-Beraroys\217-7312-004_SIB&TParkingExpansion\985\CAADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:41:55 AM



APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
 Field conditions may dictate changes to these plans as determined by the City Engineer.



- LEGEND:**
- PROPERTY LINE
 - ROADWAY CENTERLINE
 - DEPRESSED CURB PER WSDOT STD PLAN F-10.12-04
 - CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04
 - CONCRETE WALL
 - ASPHALT SURFACE
 - CEMENT CONCRETE SIDEWALK
 - BIORETENTION SOIL MEDIA PER SWMM BMP T7.30
 - SD --- STORM DRAINAGE PIPE (SIZE PER PLAN)
 - CATCH BASIN (TYPE PER PLAN)
 - STORM SEWER MANHOLE
 - C COMPACT PARKING STALL 8'x17'
 - S STANDARD PARKING STALL 9'x20'
 - EV STANDARD PARKING STALL 9'x20' WITH ELECTRIC VEHICLE CHARGING STATION

- GENERAL NOTES:**
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 - ALL STORM DRAINAGE STRUCTURES CALL OUT TO CENTER OF STRUCTURE.
 - PIPE LENGTHS ARE FOR CALCULATION PURPOSES ONLY. BID QUANTITIES SHALL BE CALCULATED AS REQUIRED.

- ROADWAY CONSTRUCTION NOTES:**
- INSTALL CURB AND GUTTER. SEE CITY OF PUYALLUP STANDARD NO. 01.02.09 ON SHEET SD-06.
 - INSTALL TRAFFIC CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL 1' WIDE DEPRESSED CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL WHEEL STOP, SEE WSDOT STANDARD PLAN M-17.10-22 ON SHEET SD-06. *Per prior comment, confirm callout. (Plans: Sht SD-00)*
 - INSTALL SIDEWALK, SEE CITY OF PUYALLUP STANDARD NO. 01.02.01 ON SHEET SD-07.
 - INSTALL PARKING STALL PAINT MARKINGS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06.
 - INSTALL COMPLETE ADA PARKING STALLS CHANNELIZATION AND SIGNS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06. ALL SLOPES SHALL BE LESS THAN 2% IN ALL DIRECTIONS.
 - INSTALL CEMENT CONCRETE PARALLEL CURB RAMP, SEE WSDOT STANDARD PLAN F-40.12-03 ON SHEET SD-06.
 - CURB AND GUTTER TO CONTINUE BEHIND TRAFFIC CURB OF LANDSCAPE ISLAND.
 - INSTALL ZURN P12-PGR ANTI-SLIP ADA GRATE OR APPROVED EQUIVALENT PER DETAIL ON SD-07.

- BIORETENTION NOTES**
- THE BIORETENTION SOIL MIX SUPPLIER SHALL CERTIFY IN WRITING THAT THE BIORETENTION SOIL MIX COMPLIES WITH THE PROCESSES, TESTING, AND STANDARDS SPECIFIED BY THE 2012/2014 ECOLOGY MANUAL BIORETENTION SOIL MEDIA SPECIFICATION, BMP 7.30
 - AT THE COMPLETION OF THE BIORETENTION CELLS CONSTRUCTION, THE ENGINEER-OF-RECORD SHALL PROVIDE A WRITTEN STATEMENT TO THE CITY OF PUYALLUP THAT THE BIORETENTION CELLS WERE BUILT PER THE APPROVED DESIGN.

- STORM DRAINAGE CONSTRUCTION NOTES:**
- INSTALL STORM SEWER MANHOLE, SEE CITY OF PUYALLUP STANDARD NO. 02.01.01 ON SHEET SD-07.
 - INSTALL CONCRETE CURB INLET AND CONCRETE SPLASH PAD PER DETAIL 1 ON SD-06. *Does not appear on Sht SD-07. (Plans: Sht SD-00)*
 - INSTALL CATCH BASIN TYPE 1, SEE CITY OF PUYALLUP STANDARD NO 02.01.03 ON SHEET SD-07.
 - INSTALL CATCH BASIN TYPE II WITH BIORETENTION OVERFLOW OUTLET STRUCTURE, SEE CITY OF PUYALLUP STANDARD NO 02.01.04 ON SHEET SD-07 AND NO.02.07.03 ON SD-07.
 - INSTALL STORM DRAIN CLEAN OUT. *Does not appear on Sht SD-07. (Plans: Sht SD-00)*

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			RLP
			CHECKED
			DCS
			APPROVED
			DCS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: 04-PS0731200C-SD-HS
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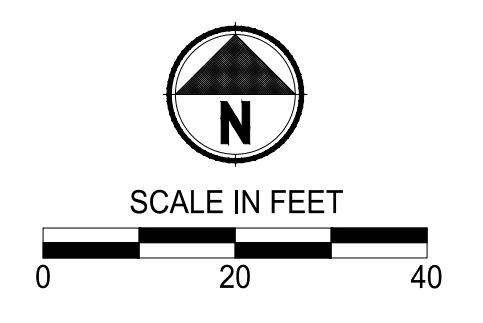
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN COMPOSITE

DRAWING NO.
 19 OF 58
SD-00

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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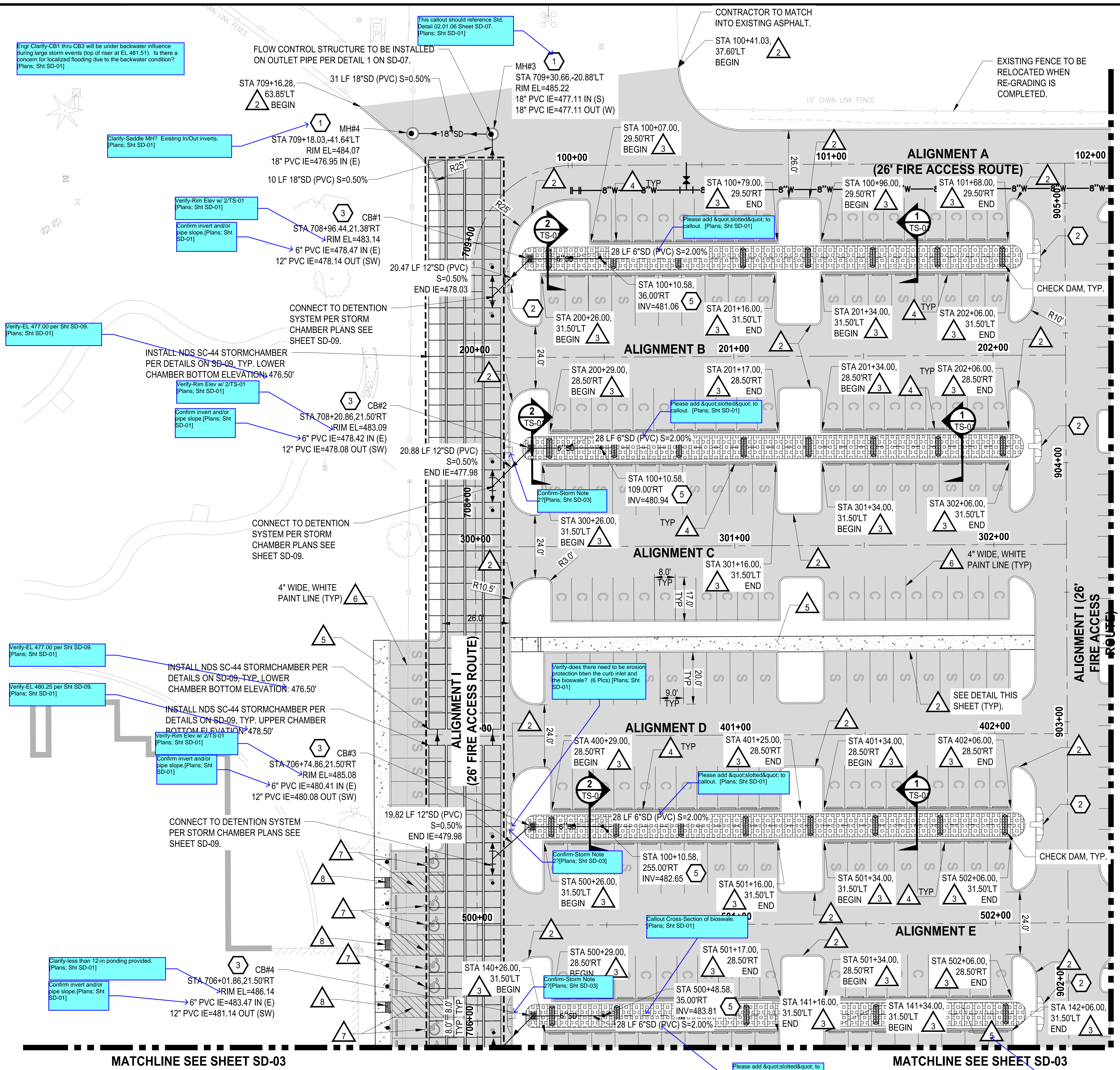
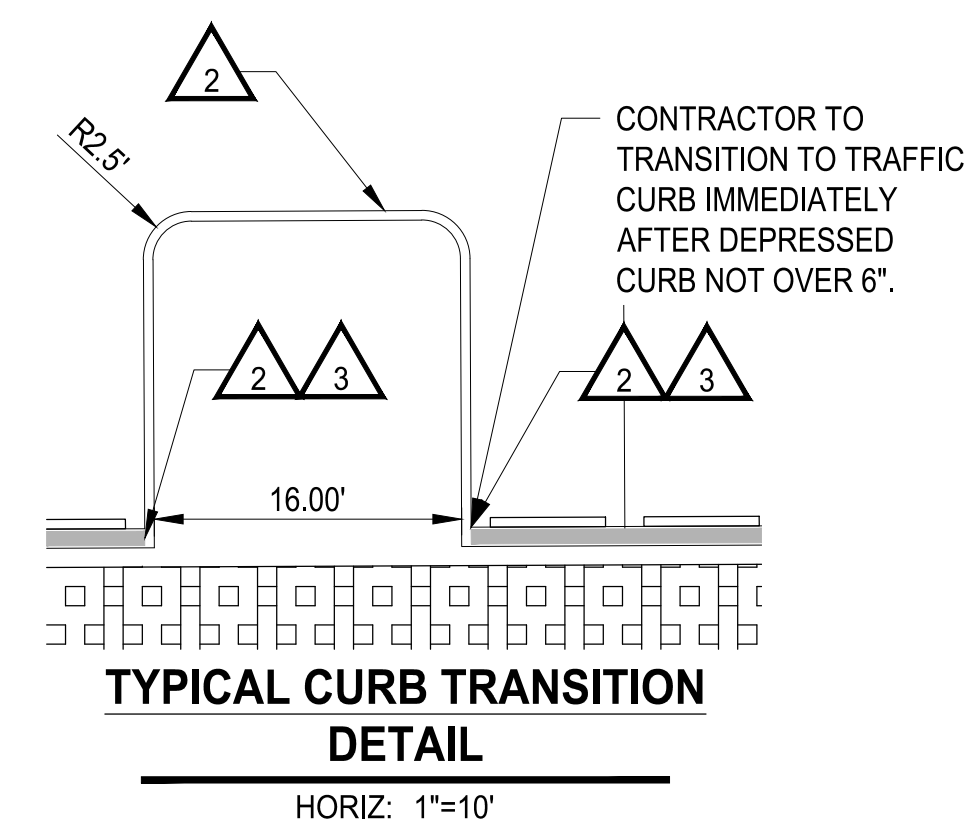
- LEGEND:**
- PROPERTY LINE
 - ROADWAY CENTERLINE
 - DEPRESSED CURB PER WSDOT STD PLAN F-10.12-04
 - CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04
 - CONCRETE WALL
 - ASPHALT SURFACE
 - CEMENT CONCRETE SIDEWALK
 - BIORETENTION SOIL MEDIA PER SWMM BMP 7.30
 - SD --- STORM DRAINAGE PIPE (SIZE PER PLAN)
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 - COMPACT PARKING STALL 8'x17'
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 - INSTALL TRAFFIC CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL 1' WIDE DEPRESSED CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL WHEEL STOP, SEE WSDOT STANDARD PLAN M-17.10-22 ON SHEET SD-06.
 - INSTALL SIDEWALK, SEE CITY OF PUYALLUP STANDARD NO. 01.02.01 ON SHEET SD-07.
 - INSTALL PARKING STALL PAINT MARKINGS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06.
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 - INSTALL CEMENT CONCRETE PARALLEL CURB RAMP, SEE WSDOT STANDARD PLAN F-40.12-03 ON SHEET SD-06.
 - CURB AND GUTTER TO CONTINUE BEHIND TRAFFIC CURB OF LANDSCAPE ISLAND.
 - INSTALL ZURN P12-PGR ANTI-SLIP ADA GRATE OR APPROVED EQUIVALENT PER DETAIL ON SD-07.

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- INSTALL STORM SEWER MANHOLE, SEE CITY OF PUYALLUP STANDARD NO. 02.01.01 ON SHEET SD-07.
 - INSTALL CONCRETE CURB INLET AND CONCRETE SPLASH PAD PER DETAIL 1 ON SD-06.
 - INSTALL CATCH BASIN TYPE 1, SEE CITY OF PUYALLUP STANDARD NO 02.01.03 ON SHEET SD-07.
 - INSTALL CATCH BASIN TYPE II WITH BIORETENTION OVERFLOW OUTLET STRUCTURE, SEE CITY OF PUYALLUP STANDARD NO 02.01.04 ON SHEET SD-07 AND NO.02.07.03 ON SD-07.
 - INSTALL STORM DRAIN CLEAN OUT.

NOTE: 100% REVIEW SUBMITTAL
 SYMBOLS NOT TO SCALE



- BIORETENTION NOTES**
- THE BIORETENTION SOIL MIX SUPPLIER SHALL CERTIFY IN WRITING THAT THE BIORETENTION SOIL MIX COMPLIES WITH THE PROCESSES, TESTING, AND STANDARDS SPECIFIED BY THE 2012/2014 ECOLOGY MANUAL BIORETENTION SOIL MEDIA SPECIFICATION, BMP 7.30
 - AT THE COMPLETION OF THE BIORETENTION CELLS CONSTRUCTION, THE ENGINEER-OF-RECORD SHALL PROVIDE A WRITTEN STATEMENT TO THE CITY OF PUYALLUP THAT THE BIORETENTION CELLS WERE BUILT PER THE APPROVED DESIGN.

LAYOUT: SD-01
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 PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:42:04 AM

NO.	REVISIONS	DATE	BY	DESIGNED	WZG

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: 04-1-PS0731200C-SD-HS
 JOB No: 217-7312-004
 DATE: MARCH 2022

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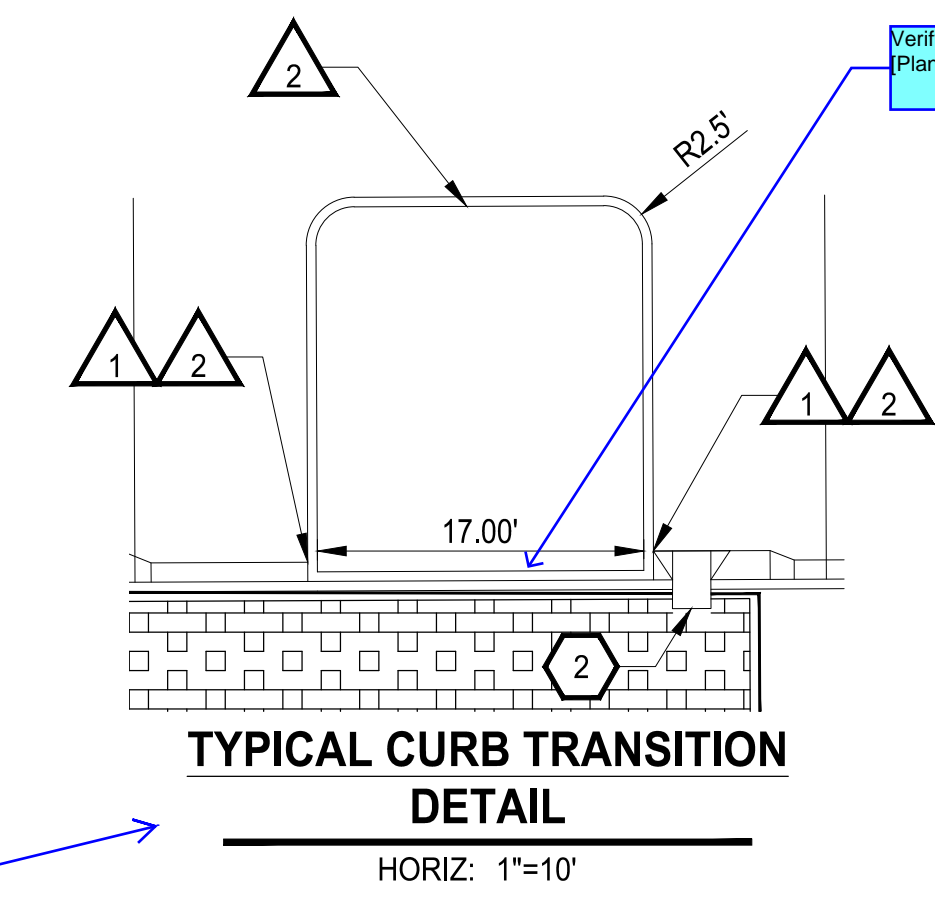
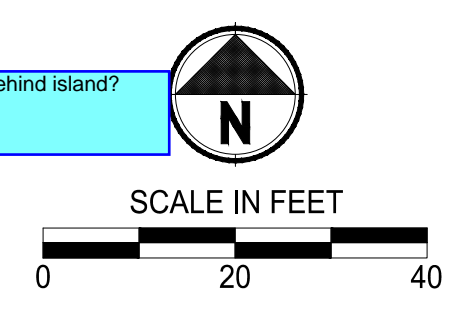
1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
 P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
SD-01
 20 OF 58

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
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- LEGEND:**
- PROPERTY LINE
 - ROADWAY CENTERLINE
 - DEPRESSED CURB PER WSDOT STD PLAN F-10.12-04
 - CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04
 - CONCRETE WALL
 - ASPHALT SURFACE
 - CEMENT CONCRETE SIDEWALK
 - BIORETENTION SOIL MEDIA PER SWMM BMP 7.30
 - SD --- STORM DRAINAGE PIPE (SIZE PER PLAN)
 - CATCH BASIN (TYPE PER PLAN)
 - STORM SEWER MANHOLE
 - C --- COMPACT PARKING STALL 8'x17'
 - S --- STANDARD PARKING STALL 9'x20'
 - EV --- STANDARD PARKING STALL 9'x20' WITH ELECTRIC VEHICLE CHARGING STATION

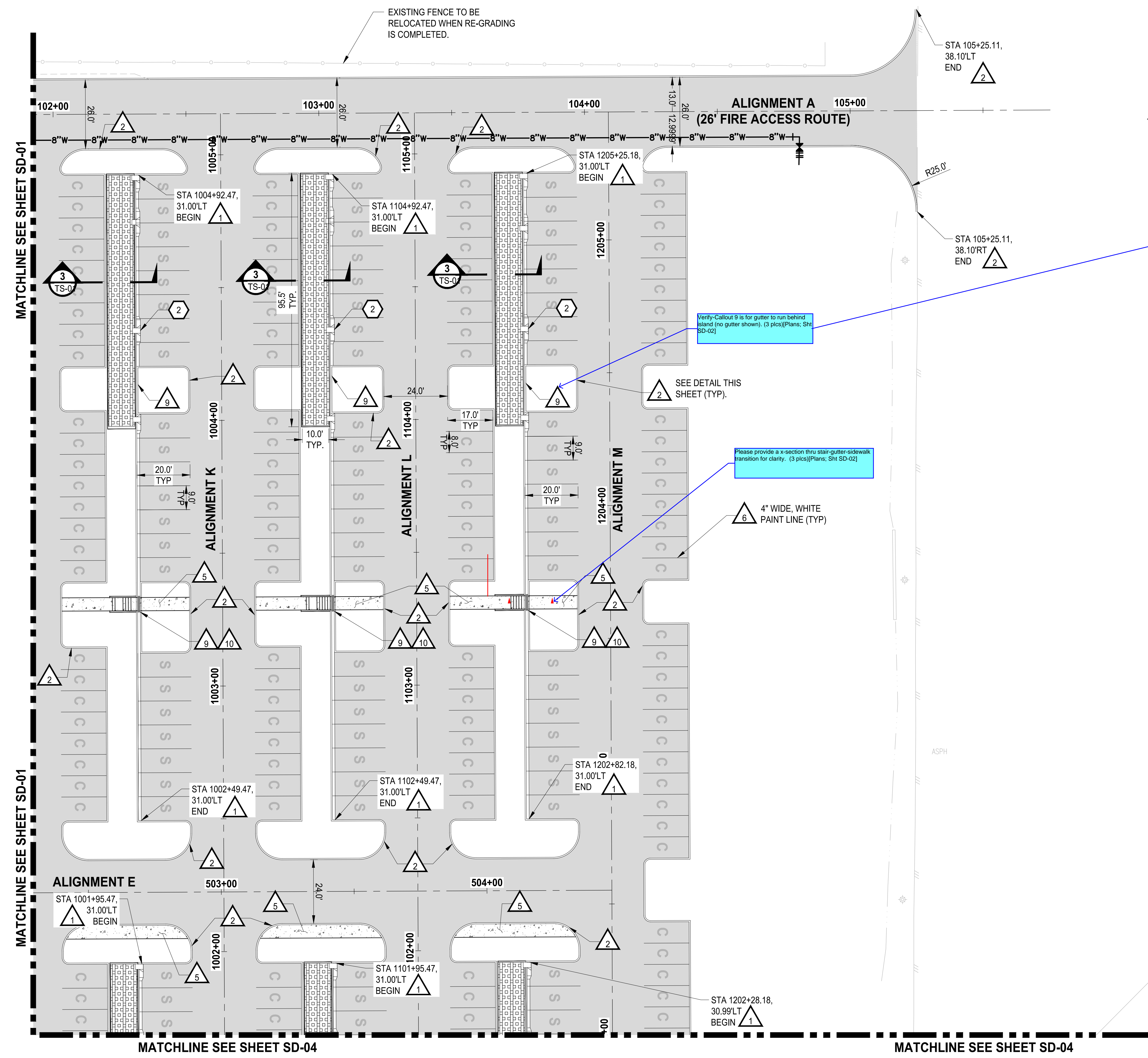
- GENERAL NOTES:**
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 - ALL STORM DRAINAGE STRUCTURES CALL OUT TO CENTER OF STRUCTURE.
 - PIPE LENGTHS ARE FOR CALCULATION PURPOSES ONLY. BID QUANTITIES SHALL BE CALCULATED AS REQUIRED.

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 - INSTALL TRAFFIC CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL 1' WIDE DEPRESSED CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL WHEEL STOP, SEE WSDOT STANDARD PLAN M-17.10-22 ON SHEET SD-06.
 - INSTALL SIDEWALK, SEE CITY OF PUYALLUP STANDARD NO. 01.02.01 ON SHEET SD-07.
 - INSTALL PARKING STALL PAINT MARKINGS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06.
 - INSTALL COMPLETE ADA PARKING STALLS CHANNELIZATION AND SIGNS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06. ALL SLOPES SHALL BE LESS THAN 2% IN ALL DIRECTIONS.
 - INSTALL CEMENT CONCRETE PARALLEL CURB RAMP, SEE WSDOT STANDARD PLAN F-40.12-03 ON SHEET SD-06.
 - CURB AND GUTTER TO CONTINUE BEHIND TRAFFIC CURB OF LANDSCAPE ISLAND.
 - INSTALL ZURN P12-PGR ANTI-SLIP ADA GRATE OR APPROVED EQUIVALENT PER DETAIL ON SD-07.

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 - INSTALL STORM DRAIN CLEAN OUT.

NOTE: 100% REVIEW SUBMITTAL
 SYMBOLS NOT TO SCALE



LAYOUT: SD-02 PATH: U:\P\SD\Projects\Chertis\7312-Benaraya\217-7312-004_SIB&TParkingExpansion\985\CA\DD\DWG PLOTTED BY: petritus DATE: Friday, March 4, 2022 10:42:13 AM

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				WZG	RLP	DCS	DCS

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FILE NAME: Q4-P\SD\731200C-SD-HS
 JOB No: 217-7312-004
 DATE: MARCH 2022

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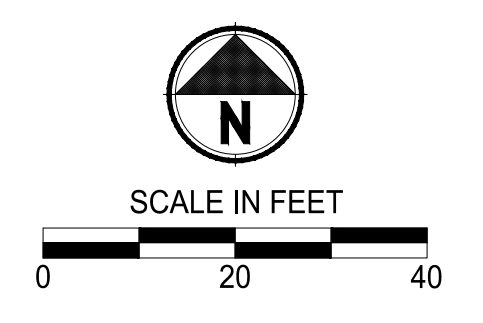
1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
 P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
SD-02
 21 OF 58

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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LEGEND:

- PROPERTY LINE
- ROADWAY CENTERLINE
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- CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04
- CONCRETE WALL
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- SD --- STORM DRAINAGE PIPE (SIZE PER PLAN)
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GENERAL NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
2. ALL STORM DRAINAGE STRUCTURES CALL OUT TO CENTER OF STRUCTURE.
3. PIPE LENGTHS ARE FOR CALCULATION PURPOSES ONLY. BID QUANTITIES SHALL BE CALCULATED AS REQUIRED.

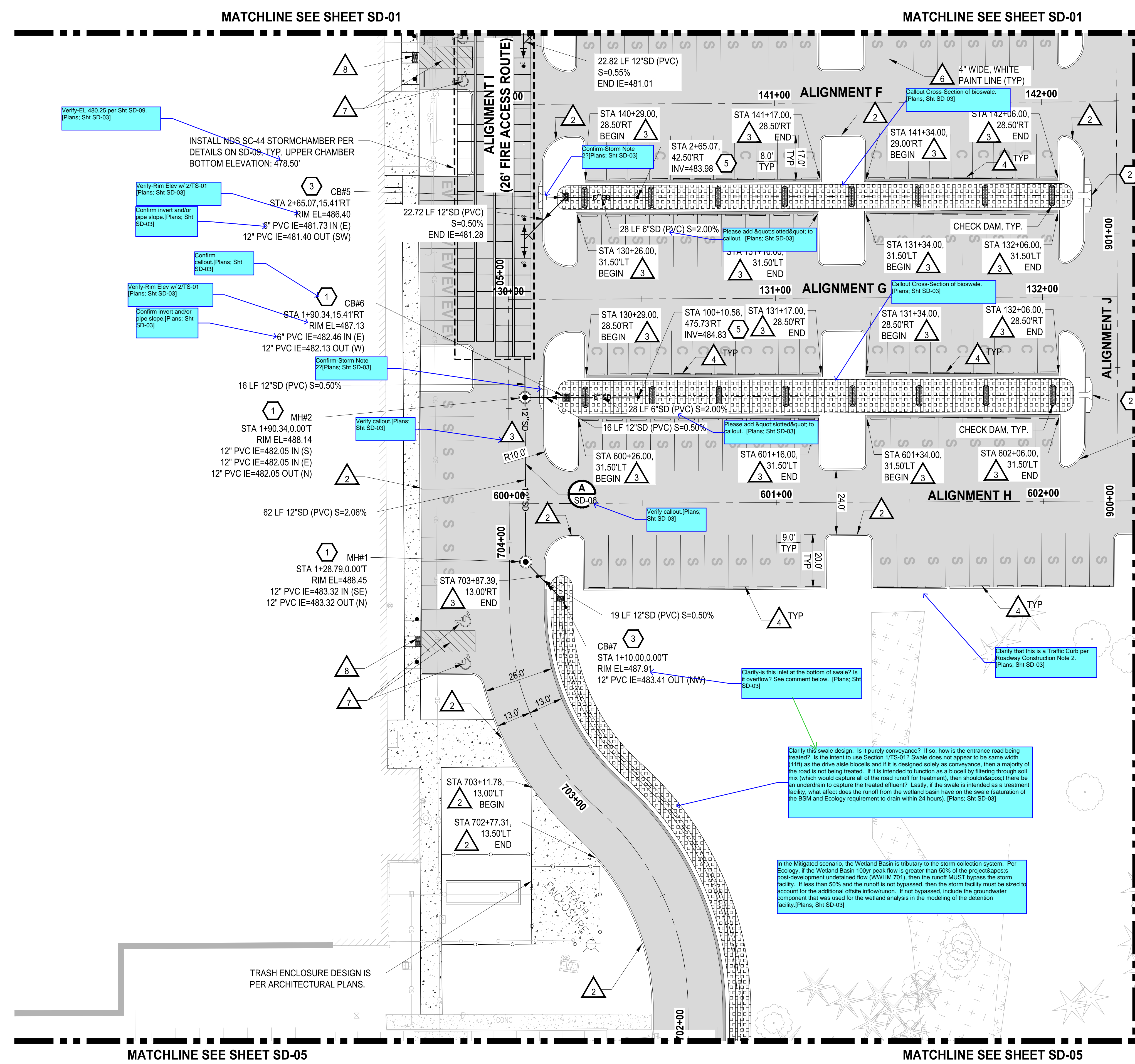
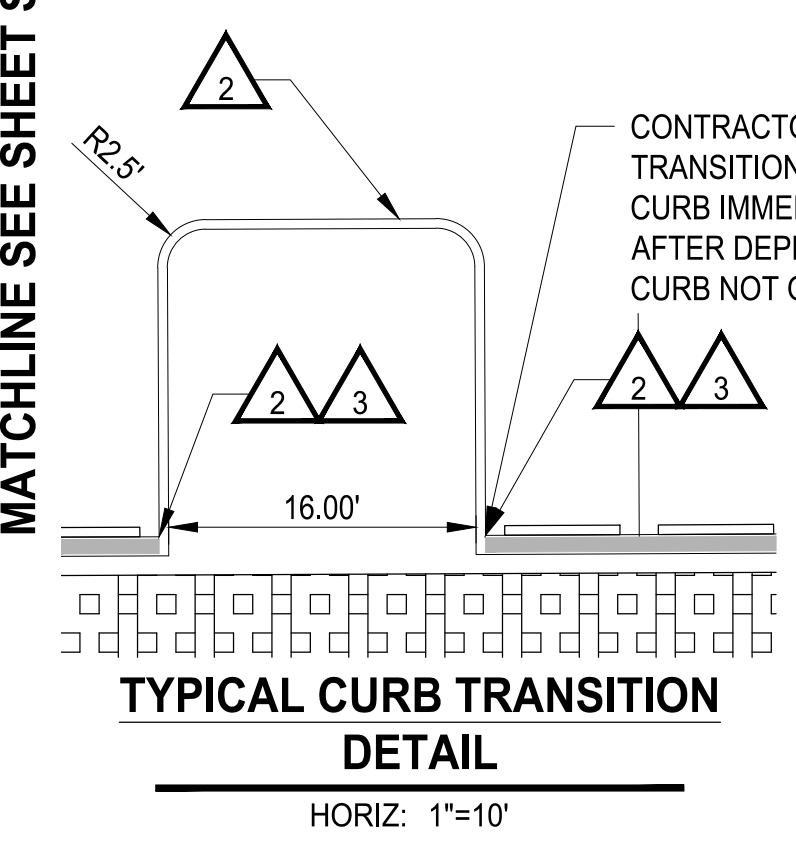
ROADWAY CONSTRUCTION NOTES:

1. INSTALL CURB AND GUTTER. SEE CITY OF PUYALLUP STANDARD NO. 01.02.09 ON SHEET SD-06.
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9. CURB AND GUTTER TO CONTINUE BEHIND TRAFFIC CURB OF LANDSCAPE ISLAND.
10. INSTALL ZURN P12-PGR ANTI-SLIP ADA GRATE OR APPROVED EQUIVALENT PER DETAIL ON SD-07.

STORM DRAINAGE CONSTRUCTION NOTES:

1. INSTALL STORM SEWER MANHOLE, SEE CITY OF PUYALLUP STANDARD NO. 02.01.01 ON SHEET SD-07.
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NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**



BIORETENTION NOTES

1. THE BIORETENTION SOIL MIX SUPPLIER SHALL CERTIFY IN WRITING THAT THE BIORETENTION SOIL MIX COMPLIES WITH THE PROCESSES, TESTING, AND STANDARDS SPECIFIED BY THE 2012/2014 ECOLOGY MANUAL BIORETENTION SOIL MEDIA SPECIFICATION, BMP 7.30
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN
 SD-03

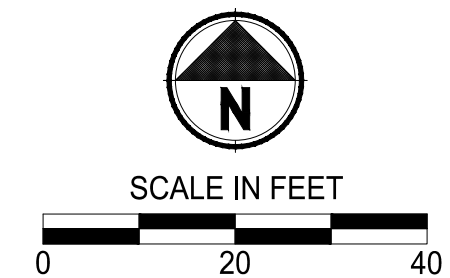
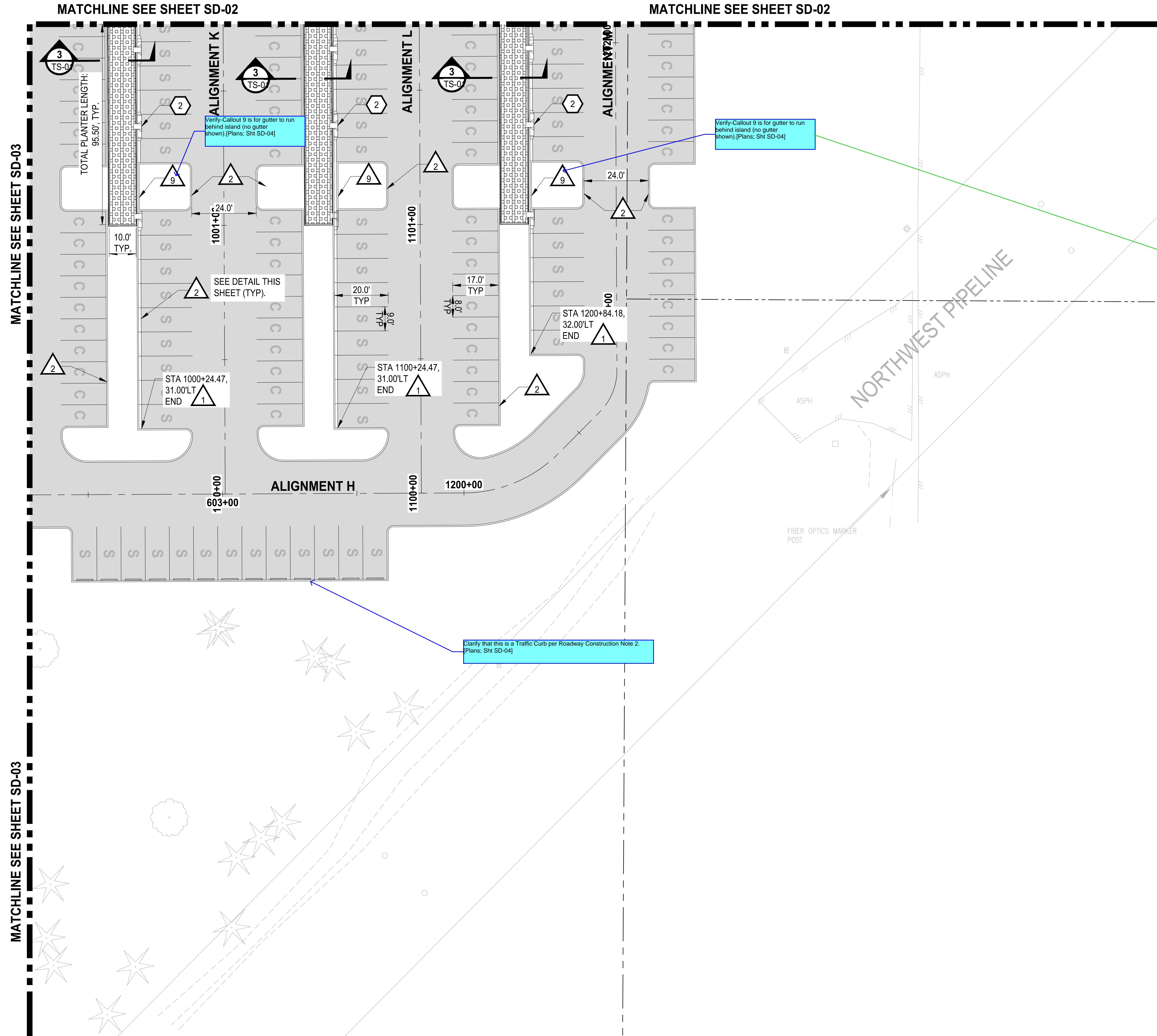
DRAWING NO.
 22 OF 58

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q4-PS0731200C-SD-HS
 JOB No. 217-7312-004
 DATE: MARCH 2022

REVISIONS	DATE	BY	DESIGNED	WZG

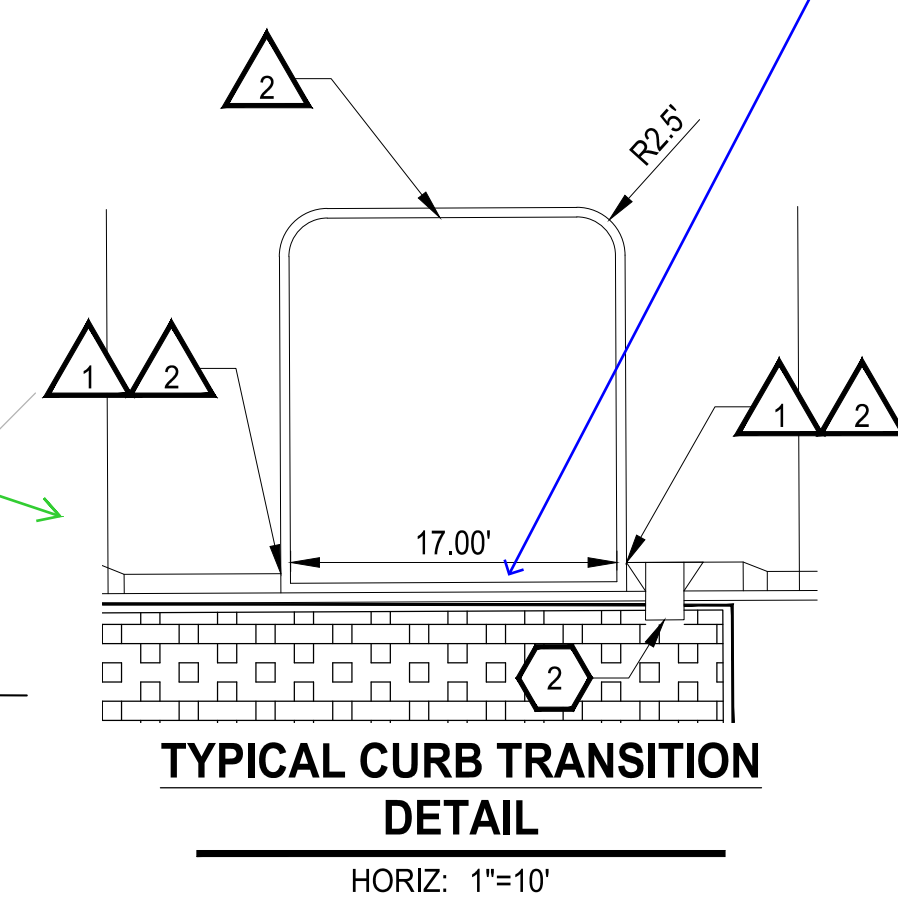
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APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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 - INSTALL STORM DRAIN CLEAN OUT.

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

NO.	REVISIONS	DATE	BY	DESIGNED	CHECKED	APPROVED
				WZG		
				RLP		
				DCS		
				DCS		

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 FILE NAME: Q4-PS0731200C-SD-HS
 JOB No.: 217-7312-004
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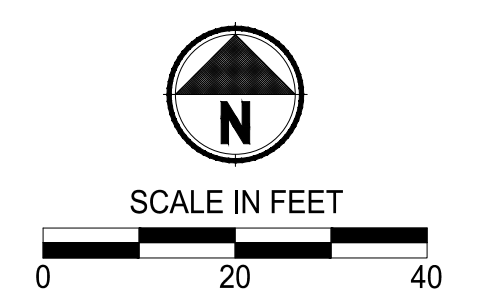
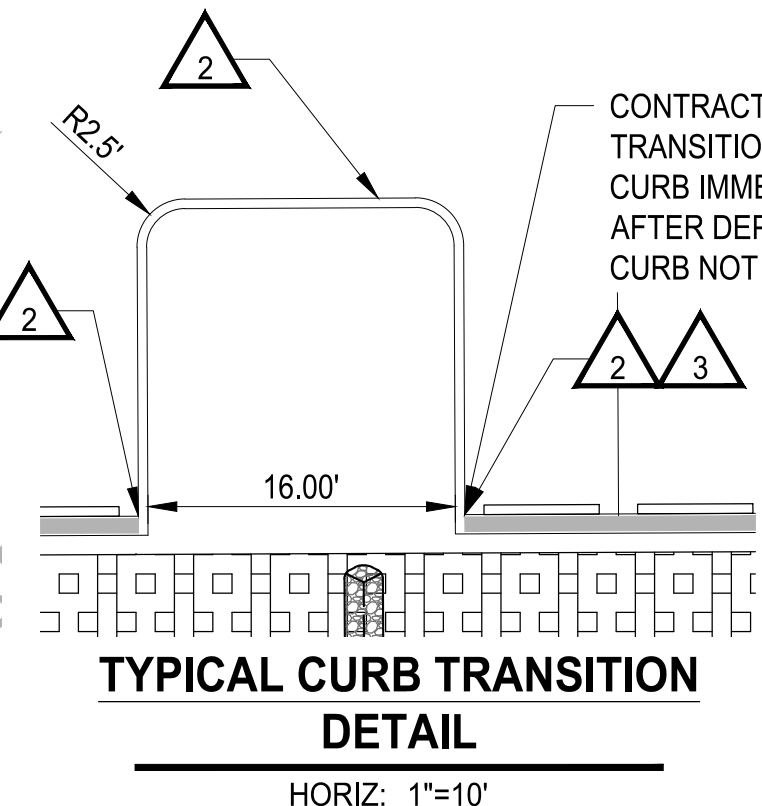
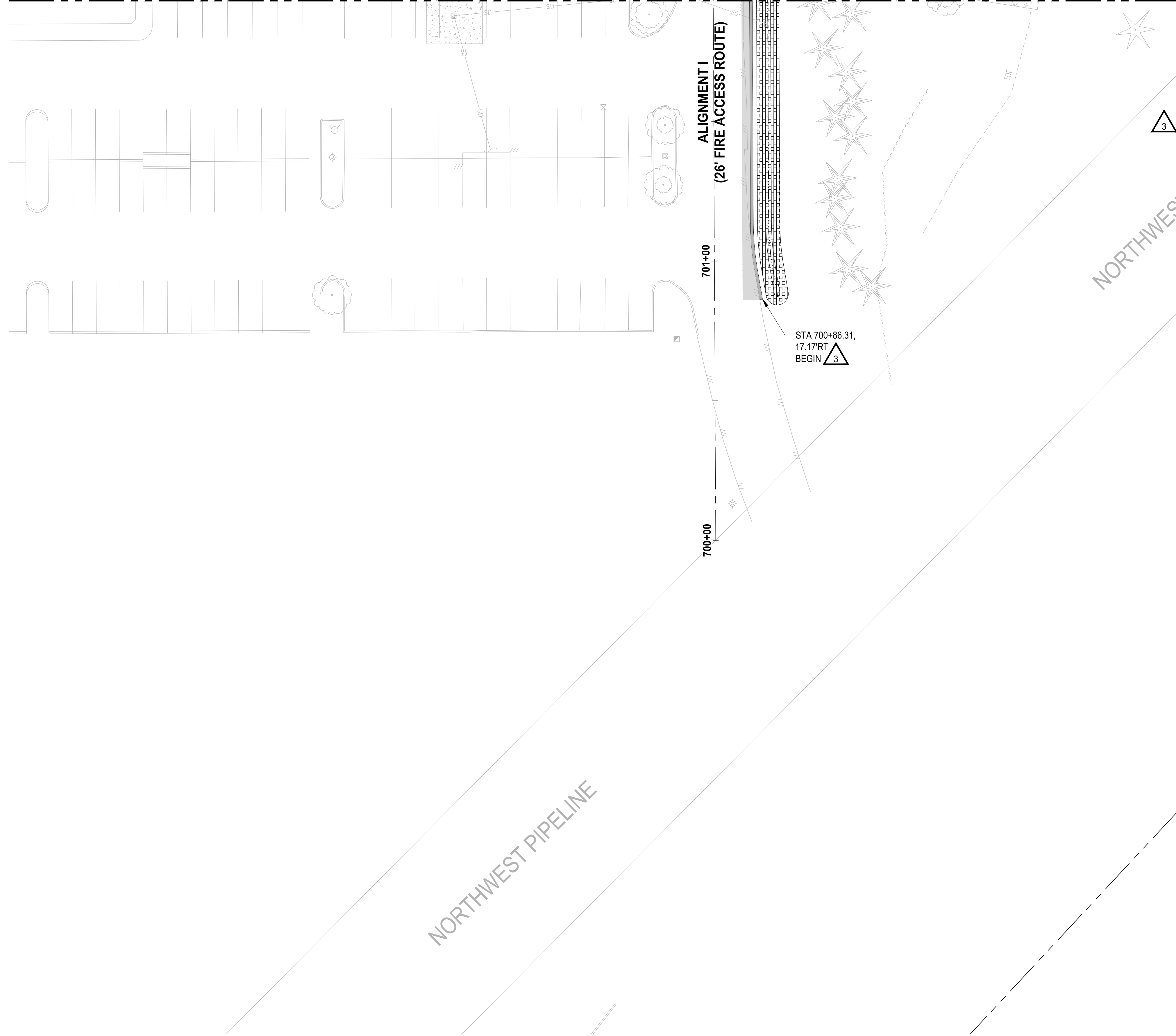
PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
SD-04
 23 OF 58

LAYOUT: SD-05 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004_SIB&TCParkingExpansion\985\es\CAADD\DWG PLOTTED BY: petritus DATE: Friday, March 4, 2022 10:42:39 AM

MATCHLINE SEE SHEET SD-03



APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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- PROPERTY LINE
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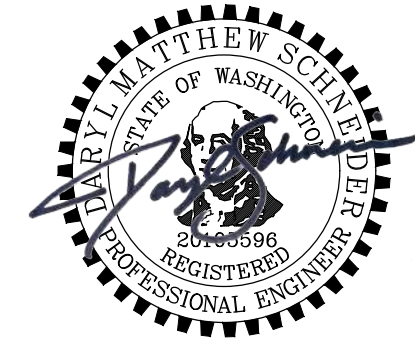
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 - INSTALL STORM DRAIN CLEAN OUT.

See comment on Sht SD-00. Plans: Sht SD-05

Revise Notes per comments on Sht SD-00. Plans: Sht SD-05

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 SYMBOLS NOT TO SCALE



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

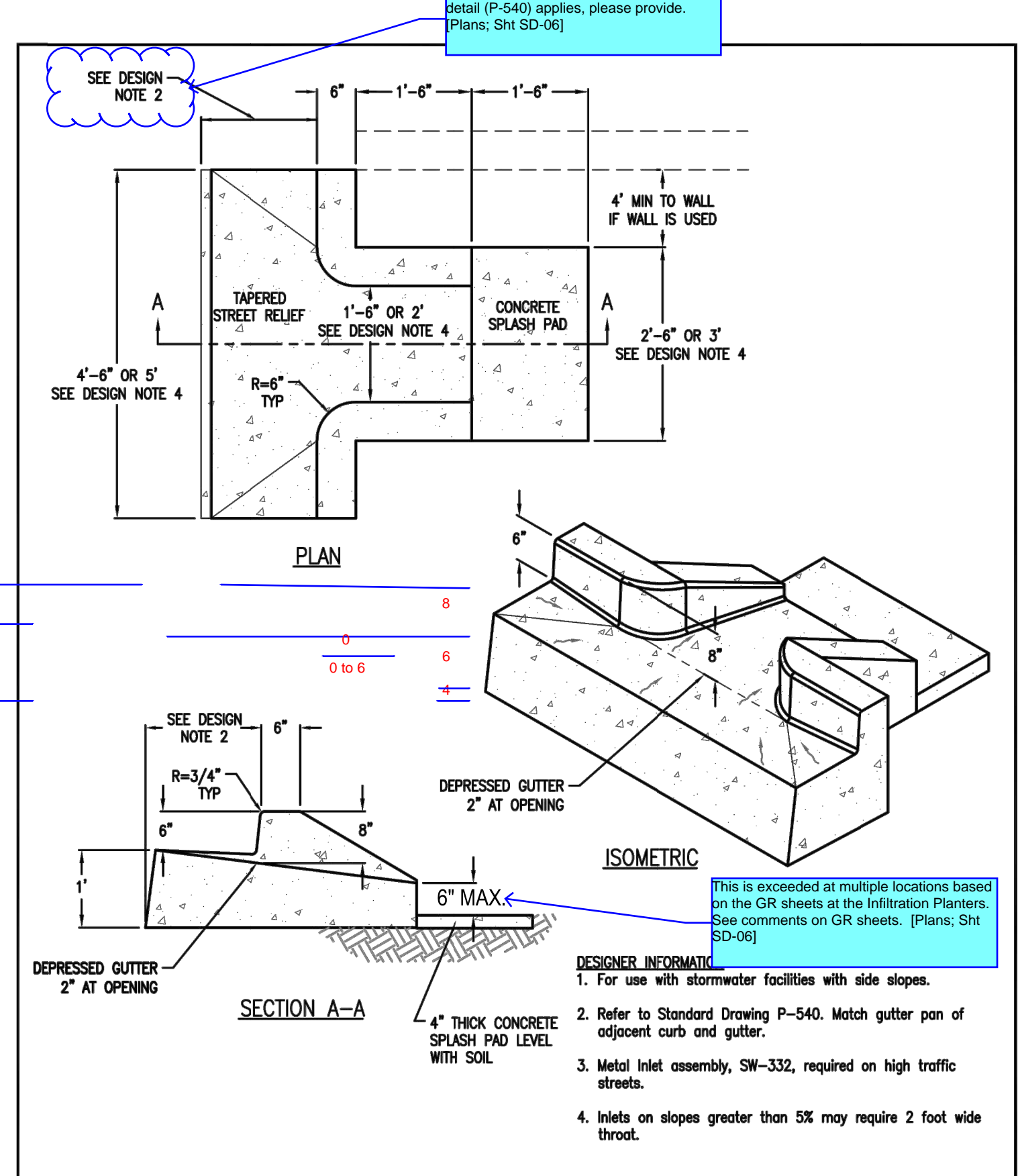
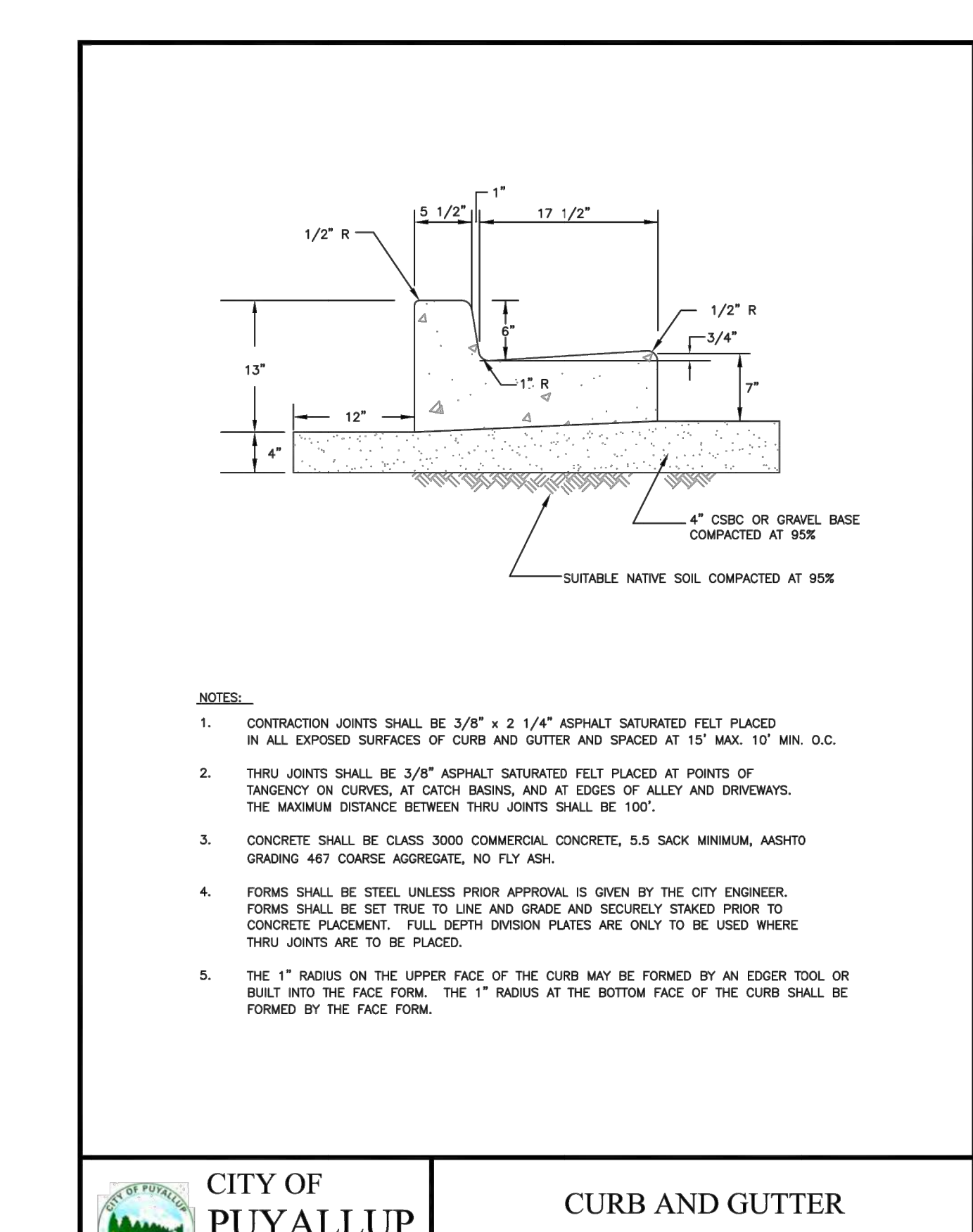
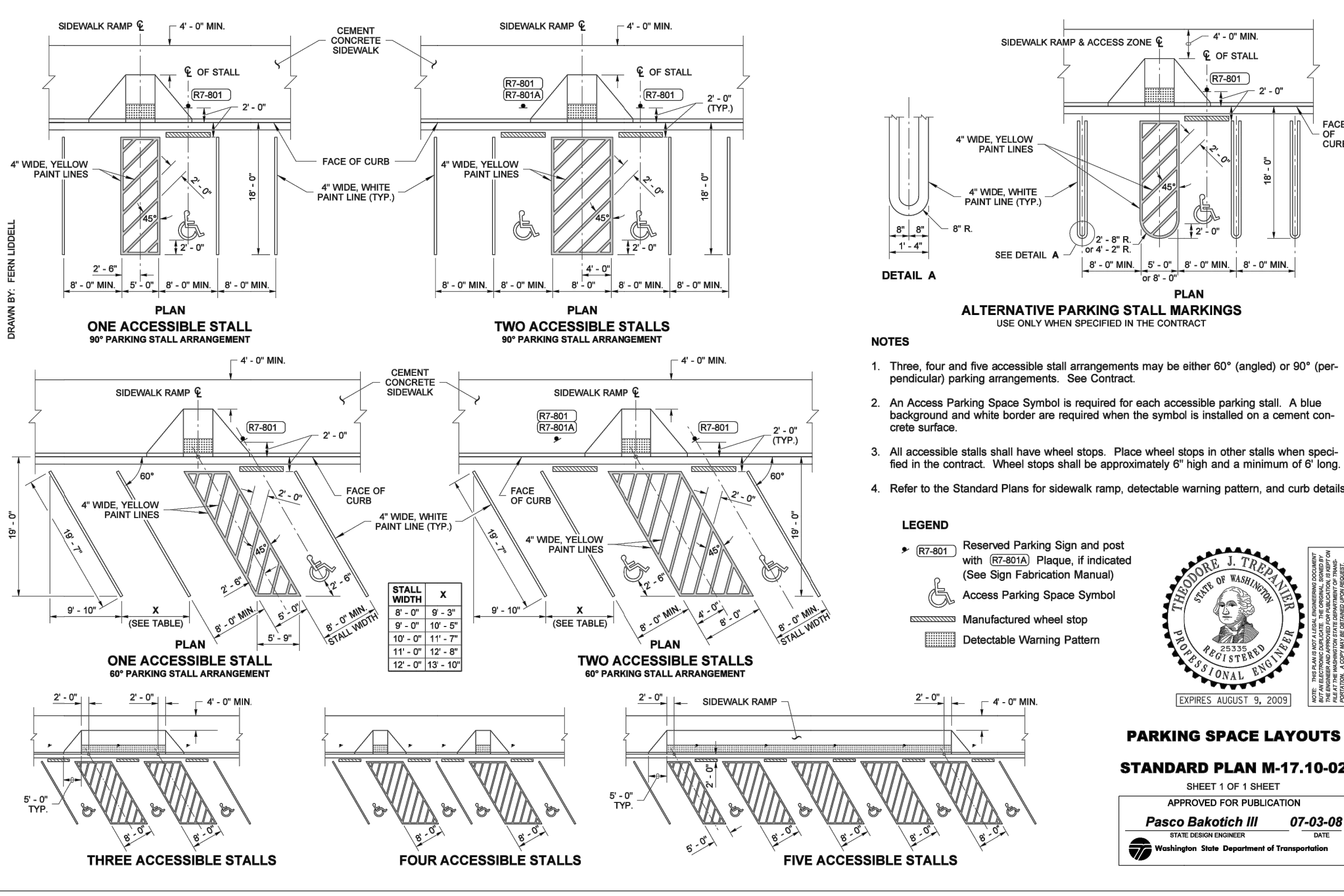
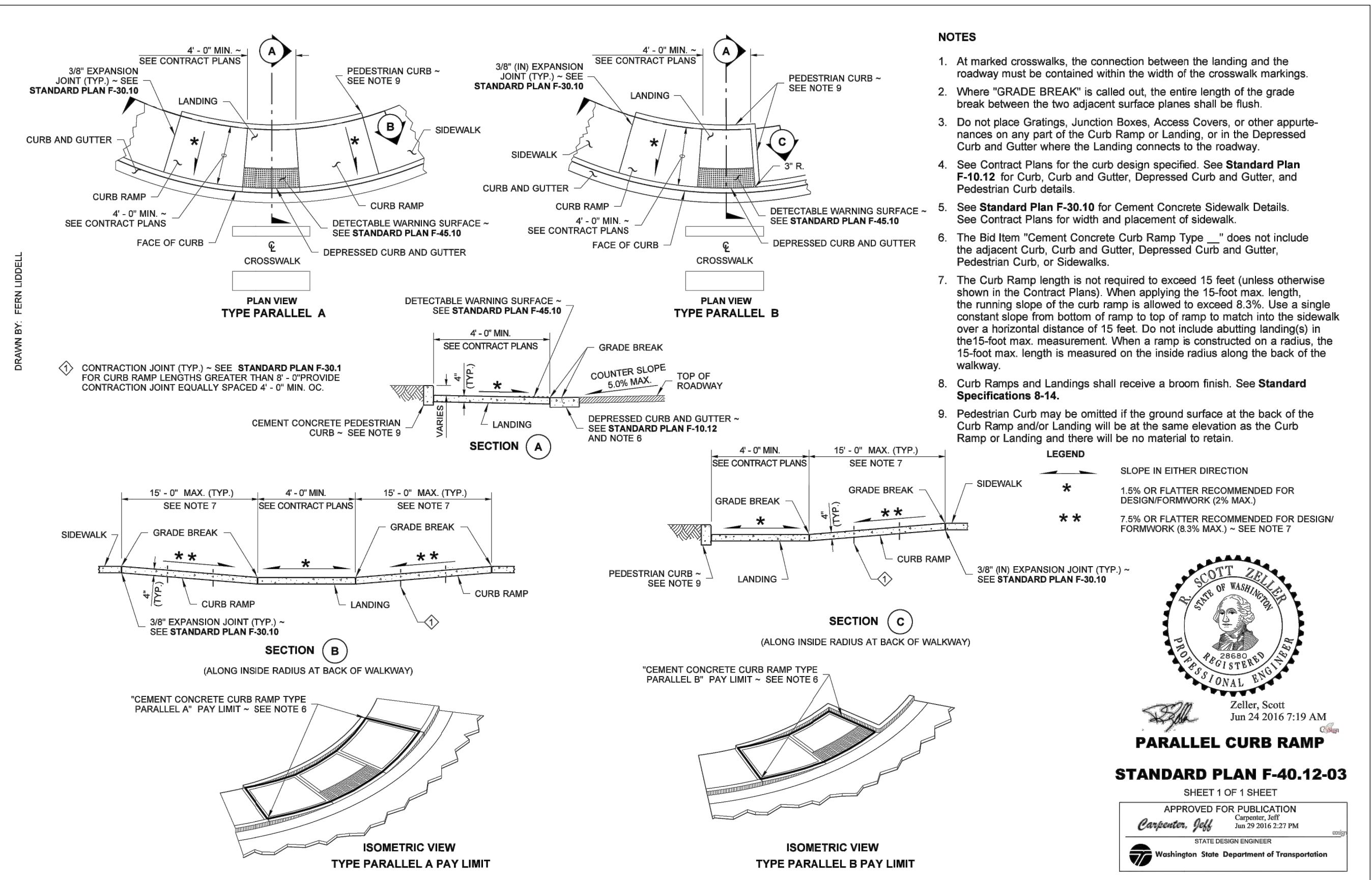
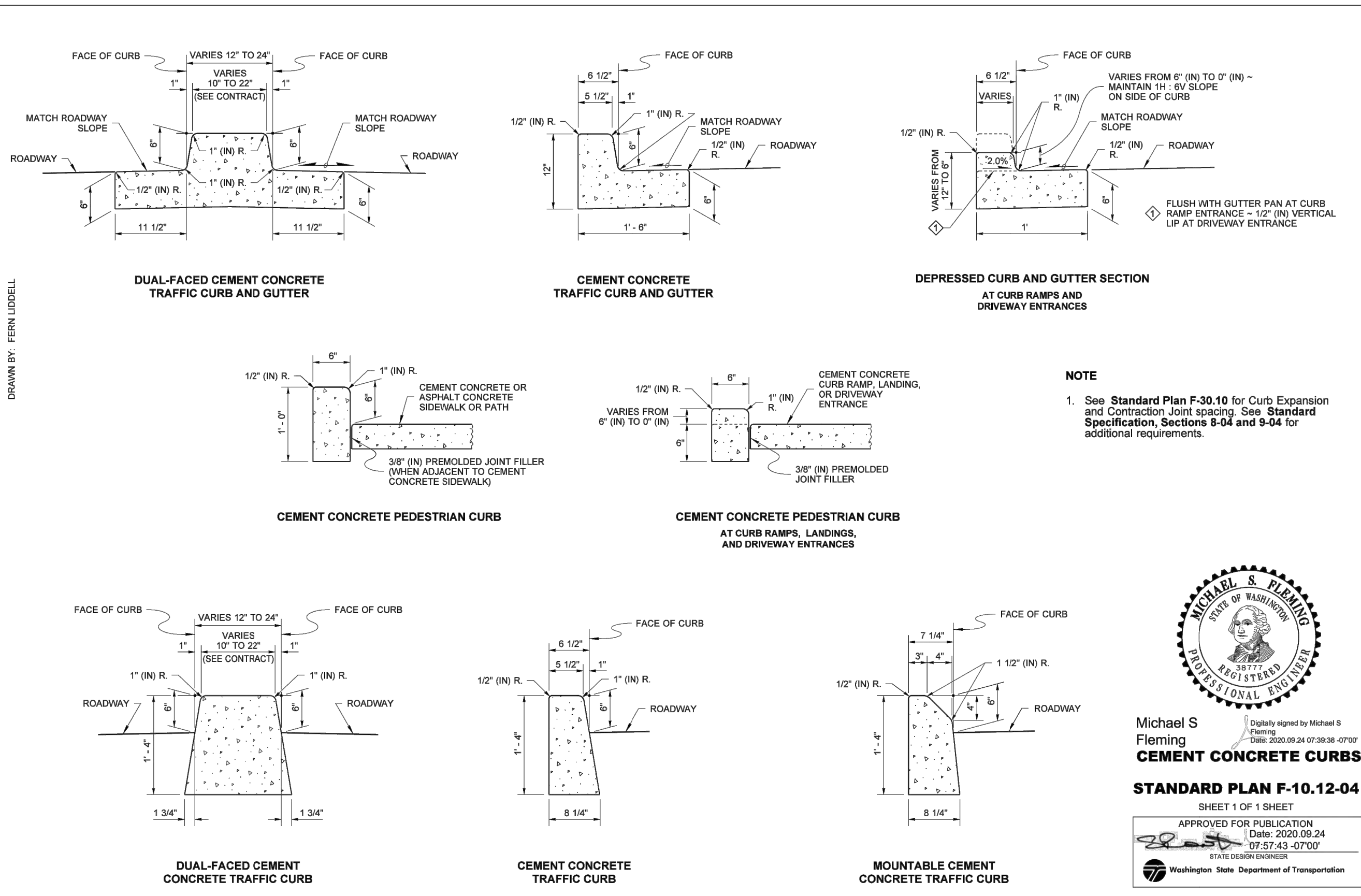
HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
24 OF 58
SD-05

REVISIONS	DATE	BY	DESIGNED
			WZG
			RLP
			DCS
			DCS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q4-PS0731200C-SD-HS
 JOB No: 217-7312-004
 DATE: MARCH 2022

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
 Field conditions may dictate changes to these plans as determined by the City Engineer.



LAYOUT: SD-06 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_SIB&TCParkingExpansion\985\CA-004\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:42:42 AM

NO.	REVISIONS	DATE	BY	DESIGNED	CHECKED	APPROVED
1	WZG					
2	CLP					
3	DCS					
4	DCS					

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q4-PSO731200C-SD-HS
 JOB No.: 217-7312-004
 DATE: MARCH 2022
 PROJECT NO.: 217-7312-004
 DATE APPROVED: 07-03-08
 PASCO BAKOTICH III
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

Parametrix
 ENGINEERING, PLANNING, ENVIRONMENTAL SCIENCES
 1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
 P 253.604.6600
 WWW.PARAMETRIX.COM

PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

HARDSCAPE STANDARD DETAILS
 SD-06
 DRAWING NO. 25 OF 58

APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

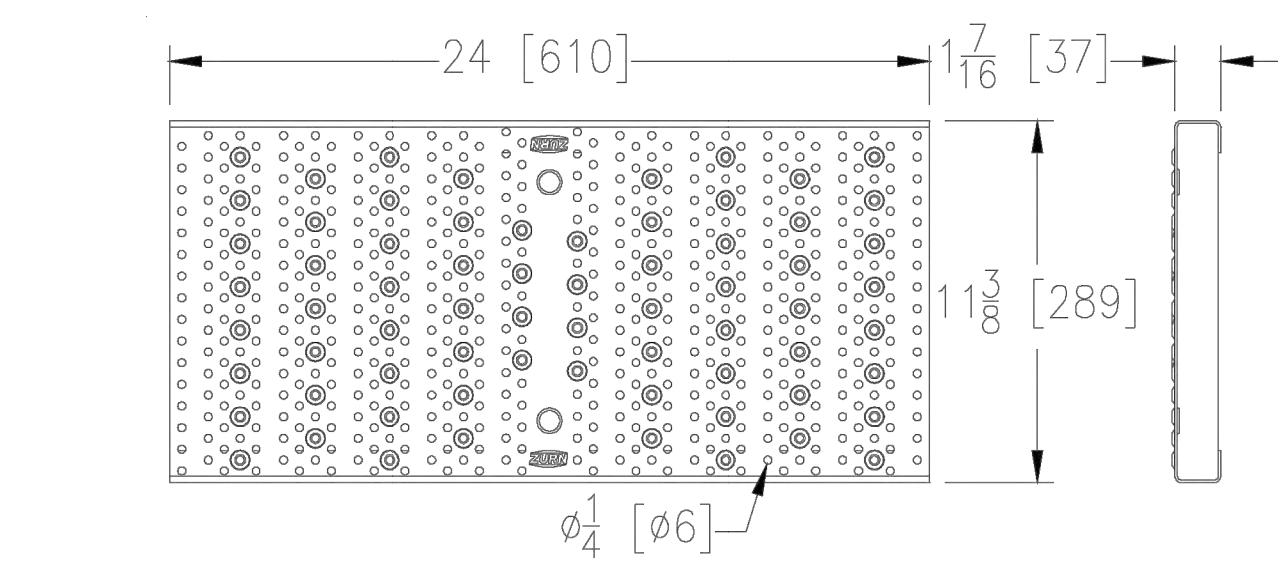
NOTE:
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ZURN P12-PGR
12 [305] Wide Galvanized Steel Raised Perforated Anti-Slip ADA Grade

Dimensional data (Imperial and Metric) are subject to manufacturing tolerances and change without notice. Linear (in/mm), area (in²/m²)

Item No.	Part Number	Item I.D.
31	300572	P12-PGR



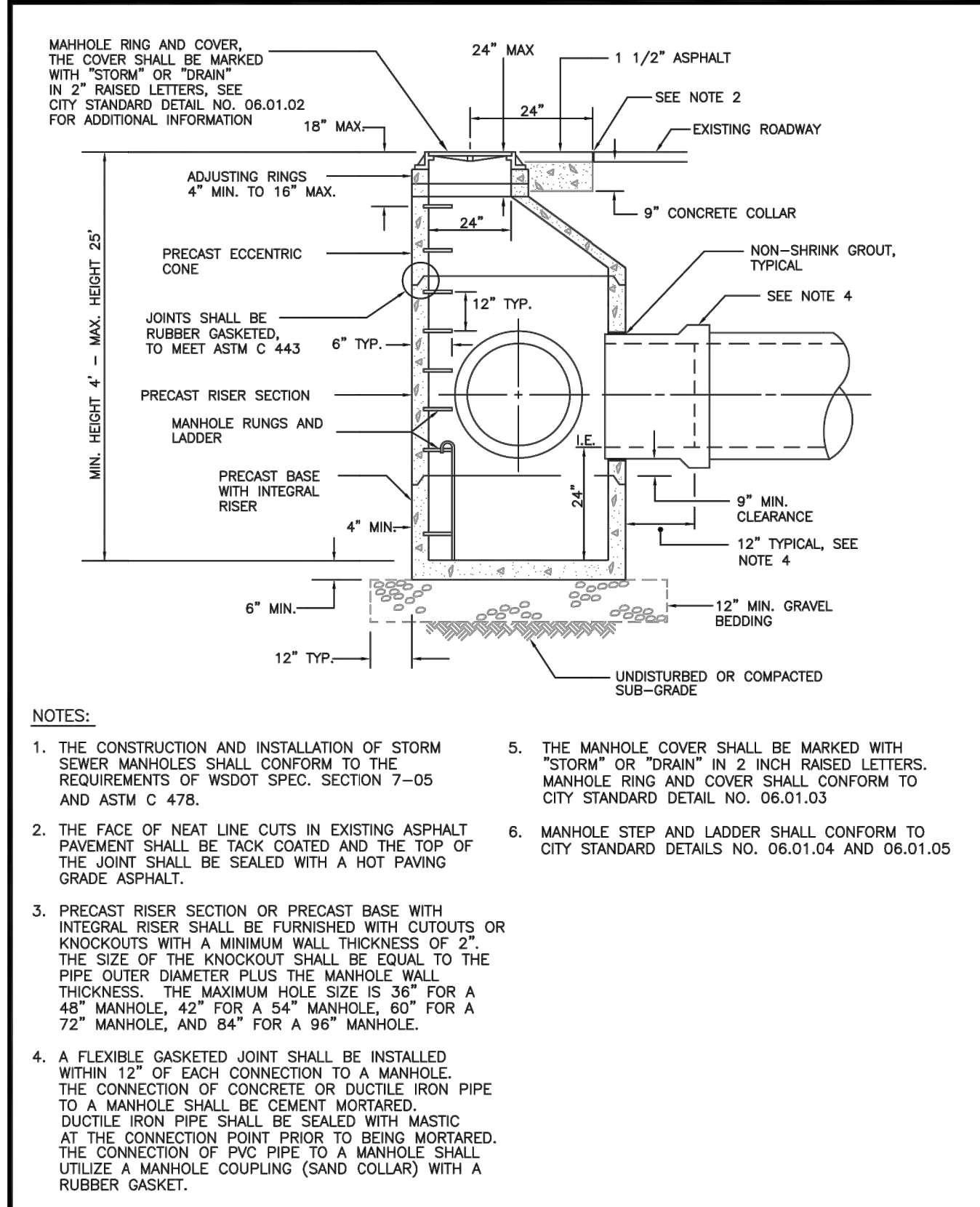
PGR GRATE ENGINEERING SPECIFICATION: The Zurn P12-PGR Galvanized Steel Raised Perforated Grate, is 11-3/8" [289mm] wide X 24" [610mm] long, weighing 7 lbs per linear foot [10kg/m]. The grate has an open area of 14.9 in² per linear foot [315 cm²/m], DIN Rating of A, ANSI Rating of Light-Duty, and ADA Compliant. Galvanized steel conforms to ASTM A36. Galvanized Sheet conforms to ASTM Specification A653, Galvanized Coating designation G60, minimum spangle.

PGR - Raised Perforated	
Material:	Galvanized Steel
DIN Rating:	Class A
Weight:	7.0 lbs/ft. [10 kg/m]
Open Area:	14.9 in²/ft. [315 cm²/m]
ANSI Rating:	Light-Duty
Application:	Heel-Proof & Pedestrian
Slot Width/Hole Size:	1/4 [6]
ADA:	Yes
H-20:	No
FAA:	No

Zurn Industries, LLC | Light Commercial Plumbing Products
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 • Ph. 855-663-9976, Fax 814-454-7929
In Canada: Zurn Industries Limited
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 • Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. AA
Date: 01/11/16
C.N. No. 133793
Form # FT649

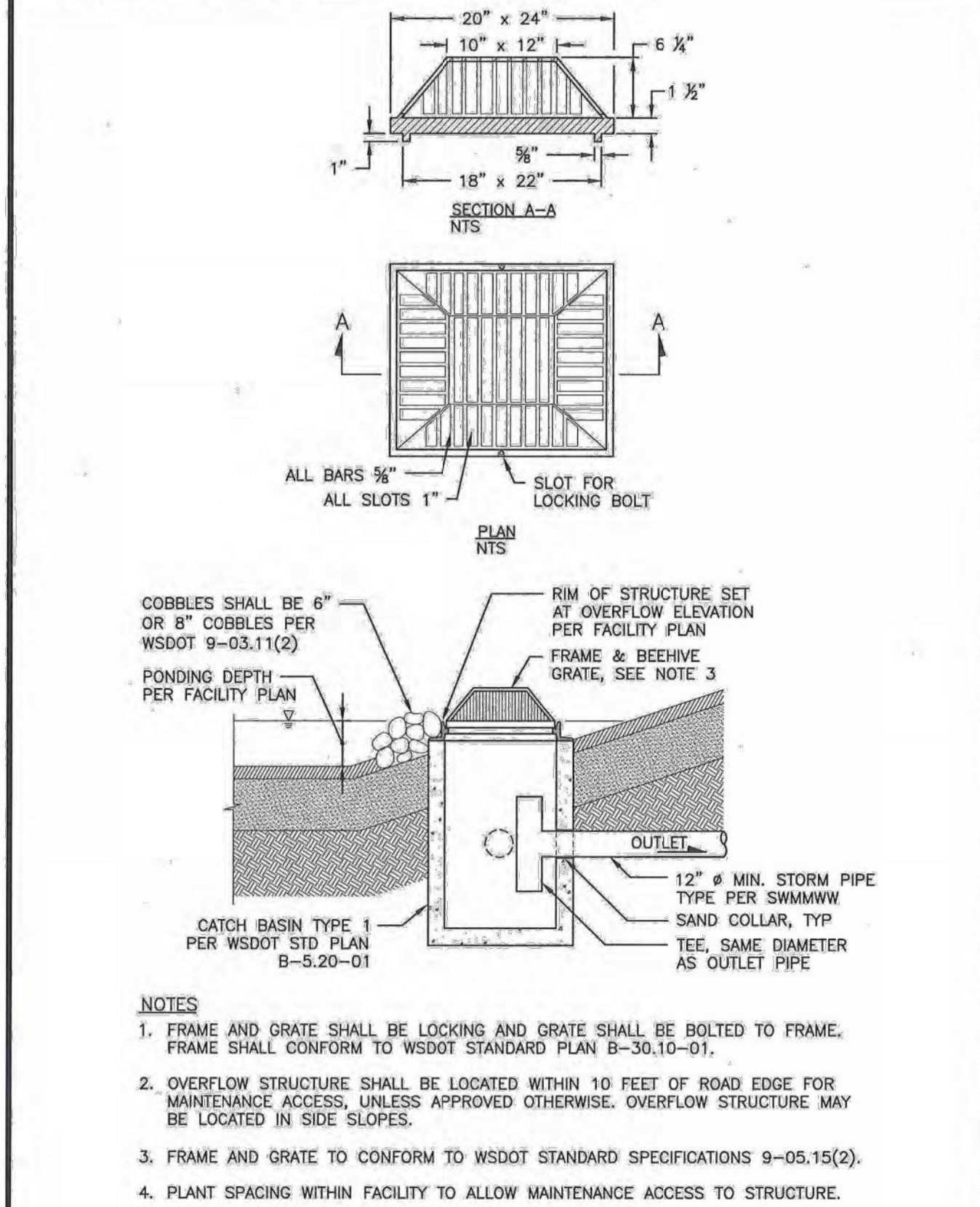
Sheet 31 of 46



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM SEWER MANHOLE

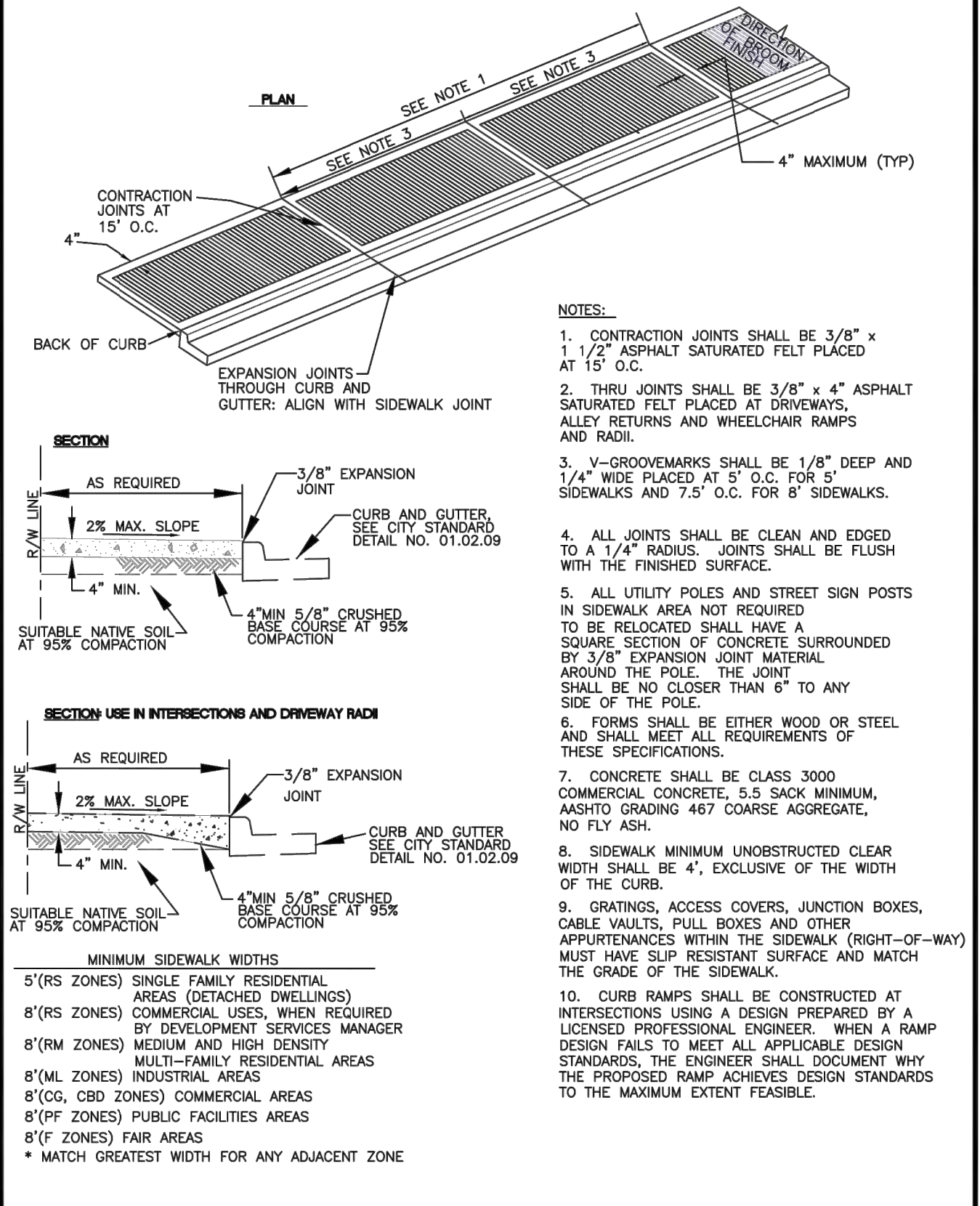
DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE	CITY STANDARD
DM/RYN/SV/BOB/DA	LINDA LIAN	LINDA LIAN	02/01/06	AS SHOWN	02.01.01



CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

BIORETENTION OVERFLOW OUTLET STRUCTURE

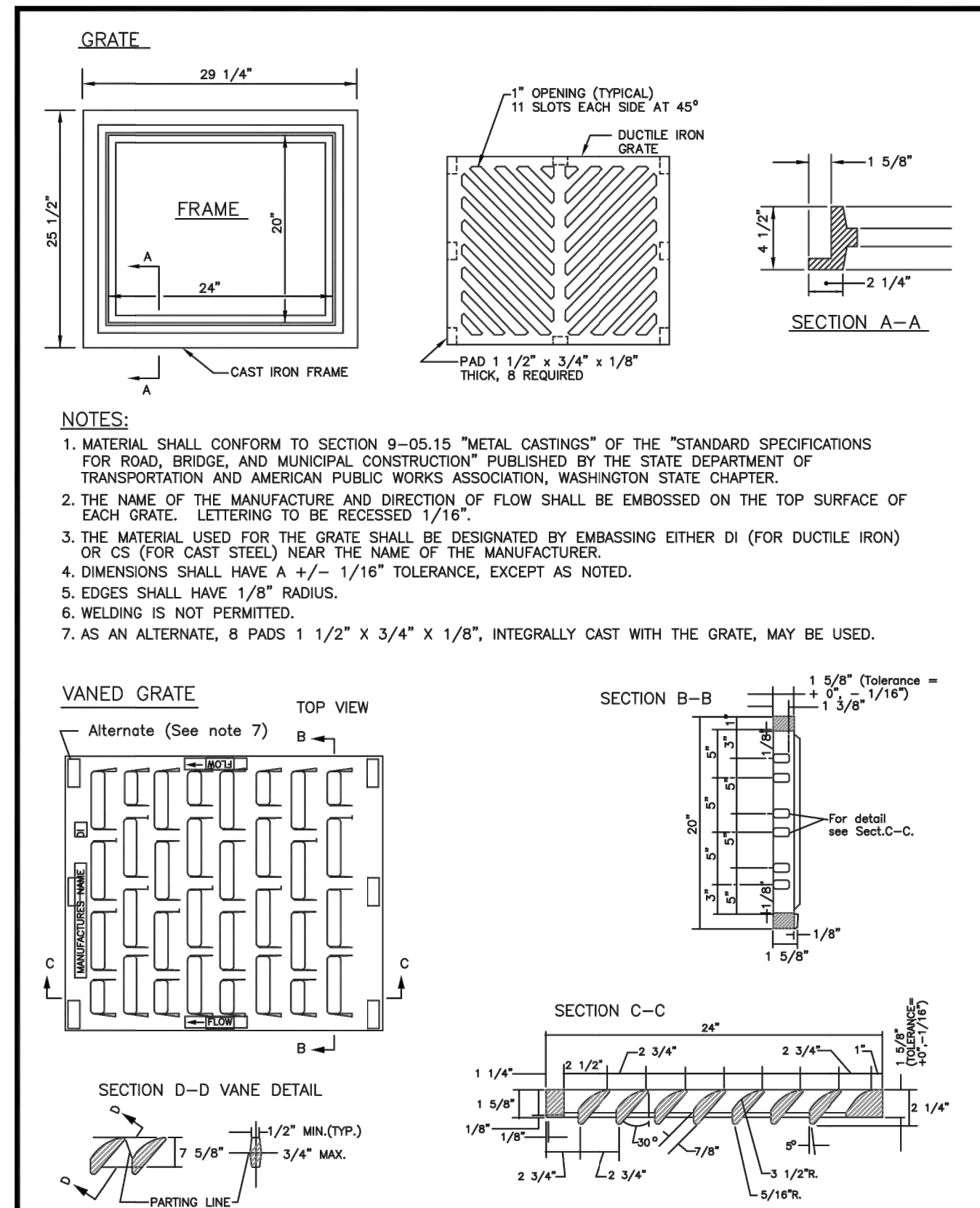
DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE	CITY STANDARD
DM/RYN/SV/BOB/DA	LINDA LIAN	LINDA LIAN	02/01/06	AS SHOWN	02.01.03



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SIDEWALK WITHOUT PLANTING STRIP

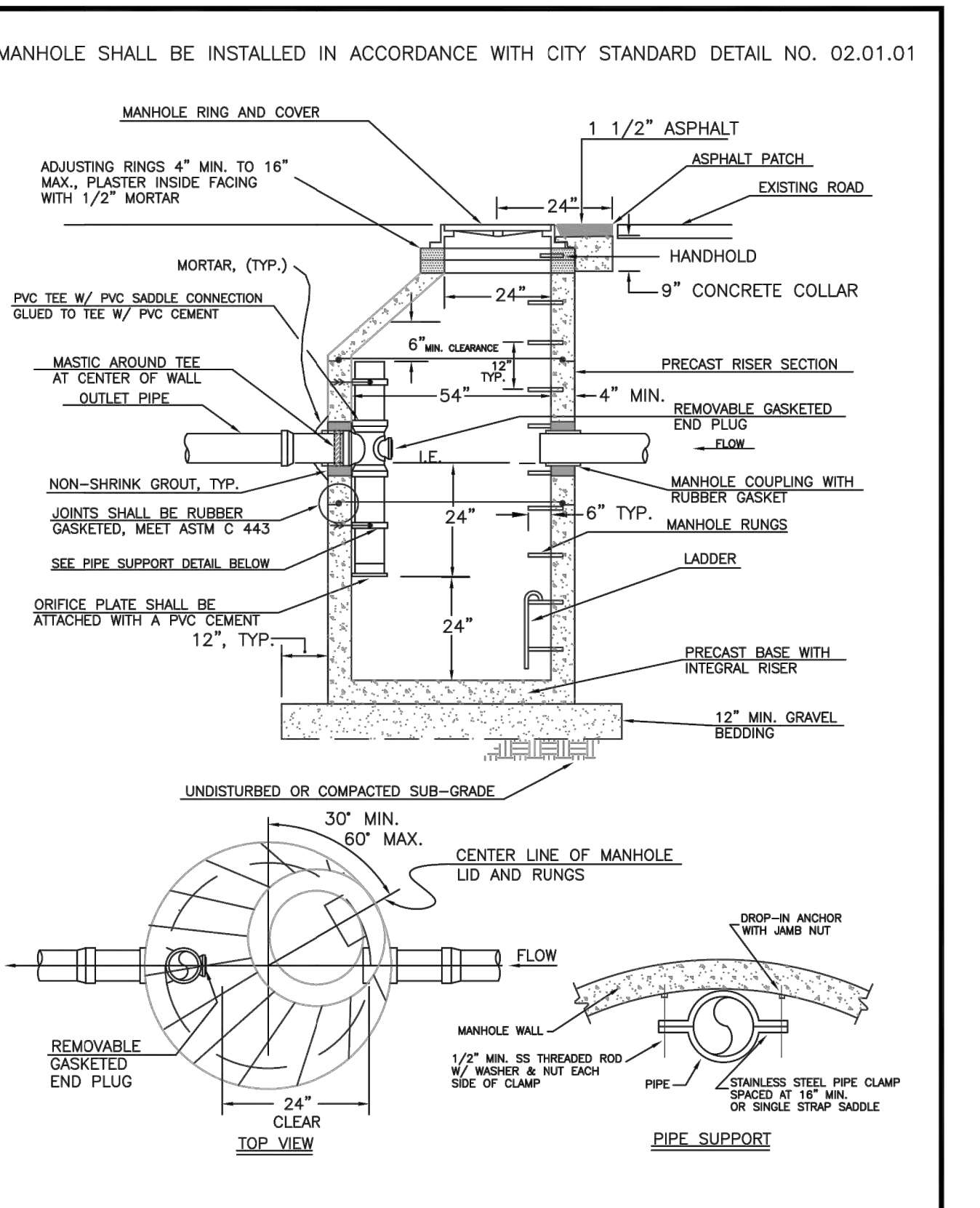
DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE	CITY STANDARD
DM/RYN/SV/BOB/DA	LINDA LIAN	LINDA LIAN	02/01/06	AS SHOWN	01.02.01



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

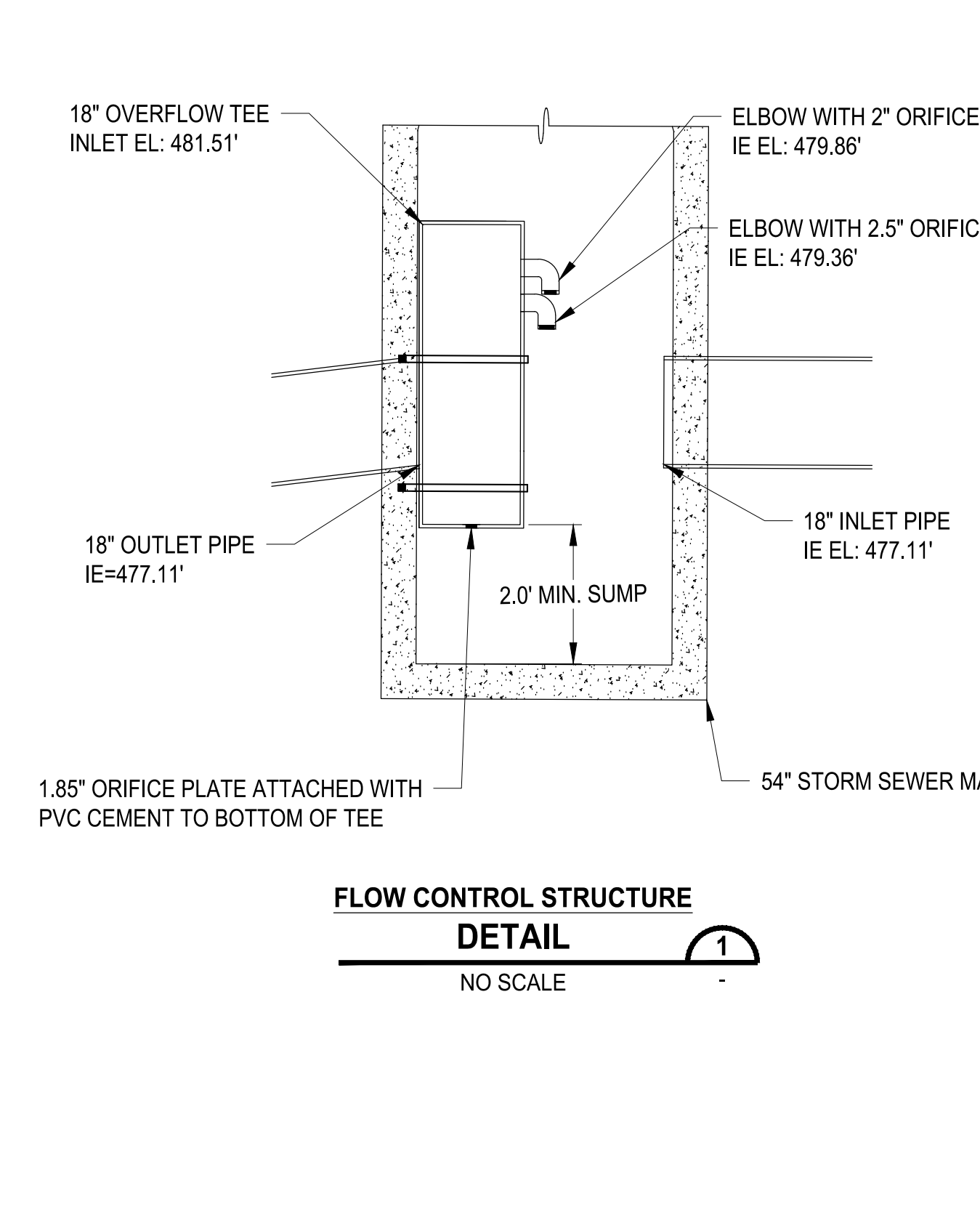
DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE	CITY STANDARD
DM/RYN/SV/BOB/DA	LINDA LIAN	LINDA LIAN	02/01/06	AS SHOWN	02.01.05



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

FLOW CONTROL MANHOLE WITH CONE SECTION

DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE	CITY STANDARD
DM/RYN/SV/BOB/DA	LINDA LIAN	LINDA LIAN	02/01/06	AS SHOWN	02.01.06



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

FLOW CONTROL STRUCTURE DETAIL

DESIGNED BY	CHECKED BY	APPROVED BY	DATE	SCALE	CITY STANDARD
DM/RYN/SV/BOB/DA	LINDA LIAN	LINDA LIAN	02/01/06	NO SCALE	02.01.06

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DCS	DCS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: 04-PS0731200C-SD-HS
JOB No.: 217-7312-004
DATE: MARCH 2022

ATTHEW SCHNEIDER
REGISTERED PROFESSIONAL ENGINEER

Parametrix
ENGINEERING, PLANNING, ENVIRONMENTAL SCIENCES

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PROJECT NAME:
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

NOTE:
SYMBOLS NOT TO SCALE

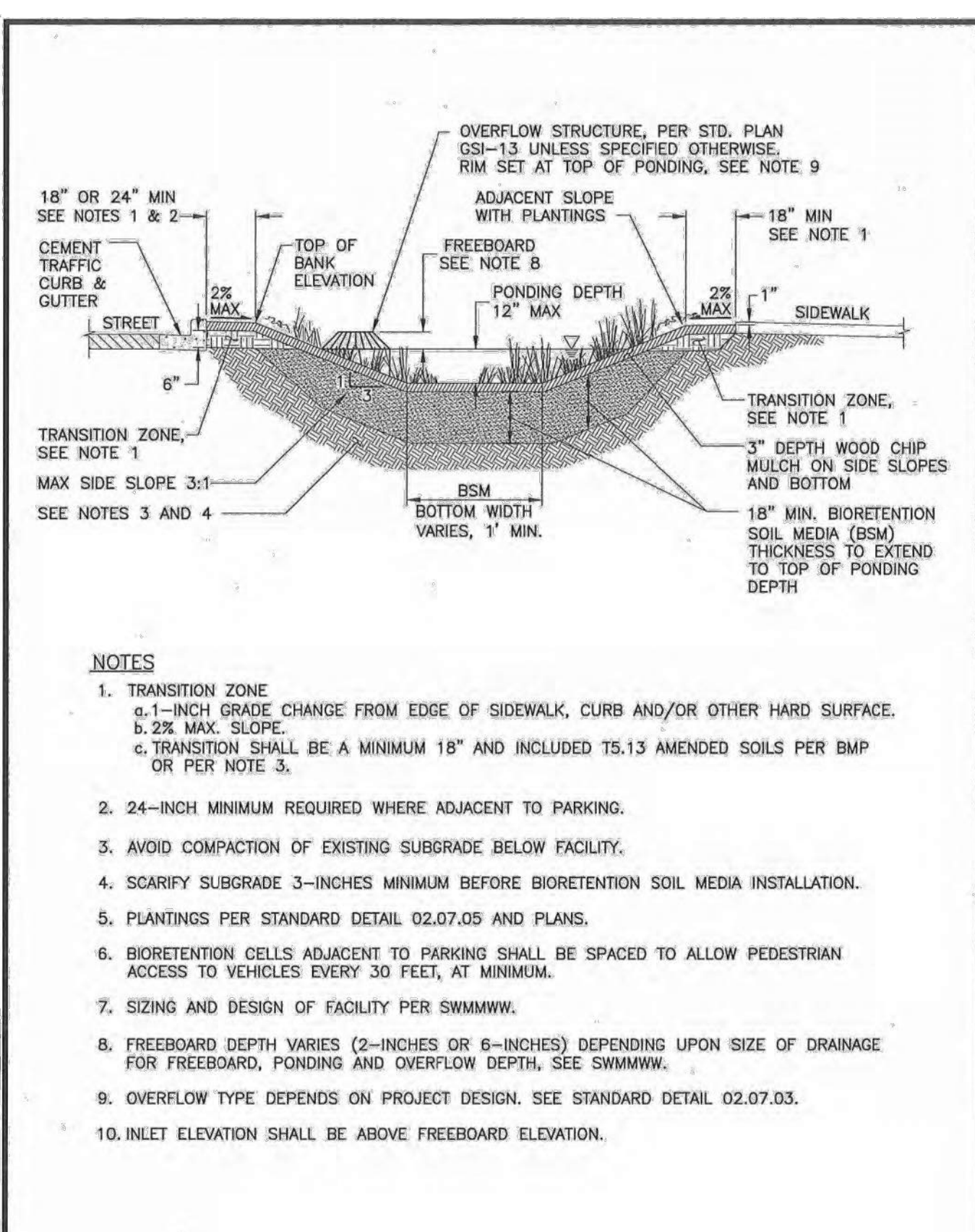
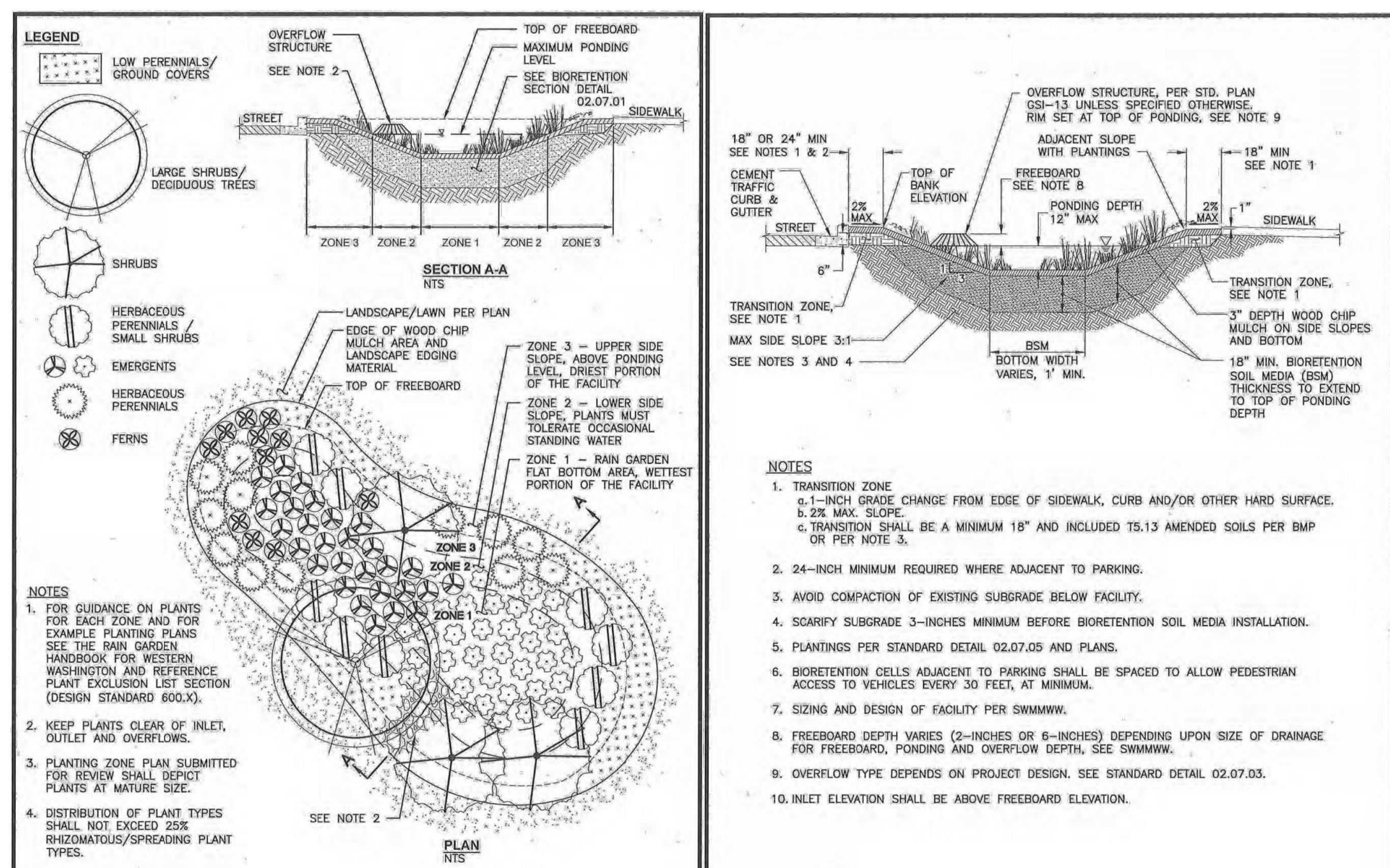
100% REVIEW SUBMITTAL

DRAWING NO. 26 OF 58
SD-07

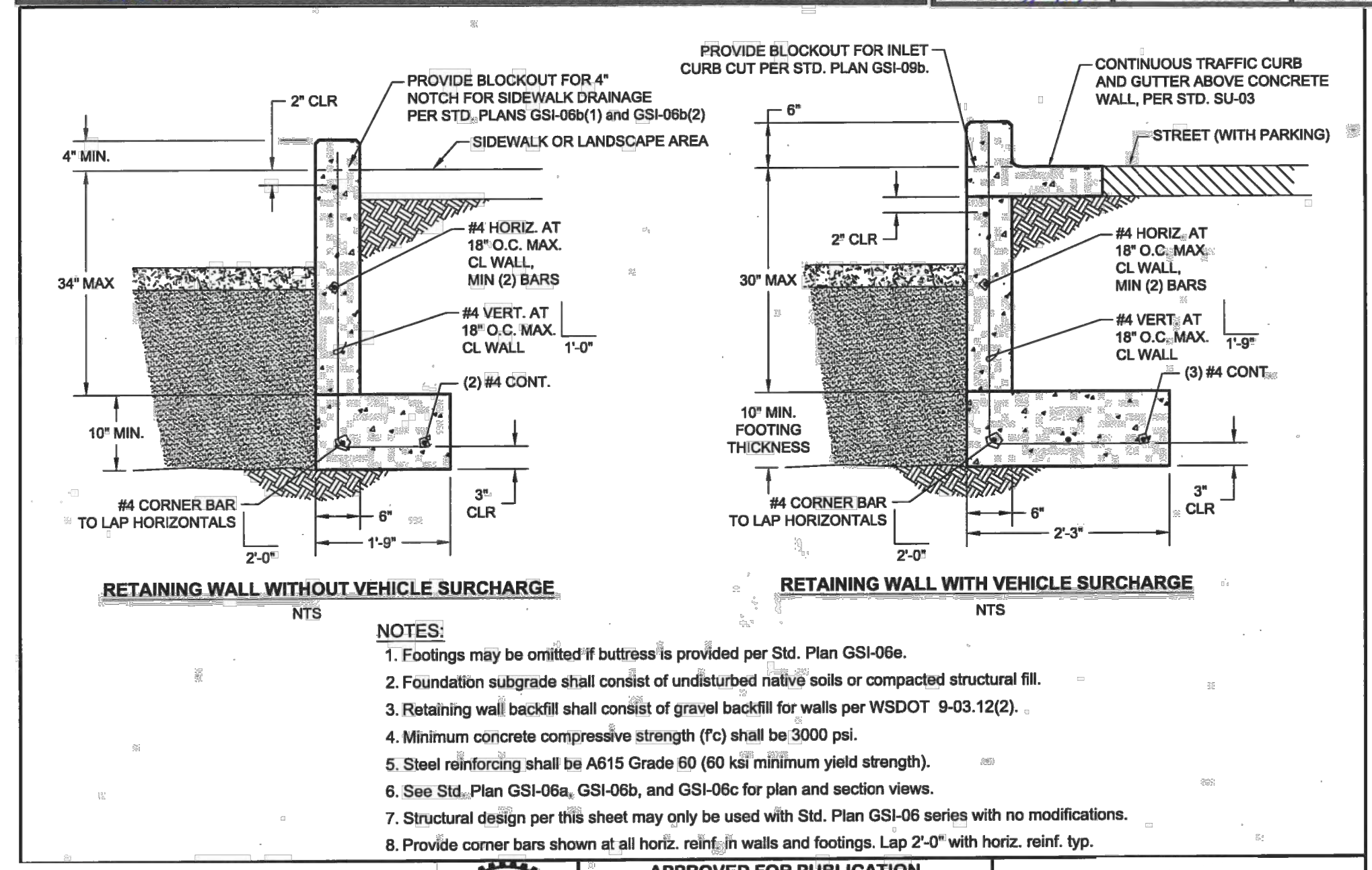
STORM DRAINAGE STANDARD DETAILS

LAYOUT: SD-07 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004_SIB&TParkingExpansion\989\Draws\CAD\DD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:42:49 AM

APPROVED
 BY _____ CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE _____
 NOTE:
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CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER		BIORETENTION PLANTING ZONES		CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER		BIORETENTION SECTION	
DESIGNED BY WZG	CHECKED BY CLP	APPROVED BY [Signature]	DATE 02.07.05	DESIGNED BY WZG	CHECKED BY CLP	APPROVED BY [Signature]	DATE 02.07.01



APPROVED FOR PUBLICATION
 [Signature]
 CITY ENGINEER DATE
 WALLED BIORETENTION WALLS AND STRUCTURAL FOOTING
 STANDARD PLAN NO. GSI-06d

GENERAL NOTE

- WALLS OVER 48-INCHES FROM BOTTOM OF FOOTING TO SEPARATE WALL REQUIRE SEPARATE BUILDING PERMIT.

NOTE: SYMBOLS NOT TO SCALE
 100% REVIEW SUBMITTAL

LAYOUT: SD-08
 PATH: U:\PSD\Projects\217-7312-004_SIB&TCParkingExpansion\989Seas\CA\DD\DWG
 PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:42:54 AM

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	CLP	DCS	DCS

ONE INCH AT FULL SCALE.
 IF NOT, SCALE ACCORDINGLY
 FILE NAME
 04-PS0731200C-SD-HS
 JOB No.
 217-7312-004
 DATE
 MARCH 2022



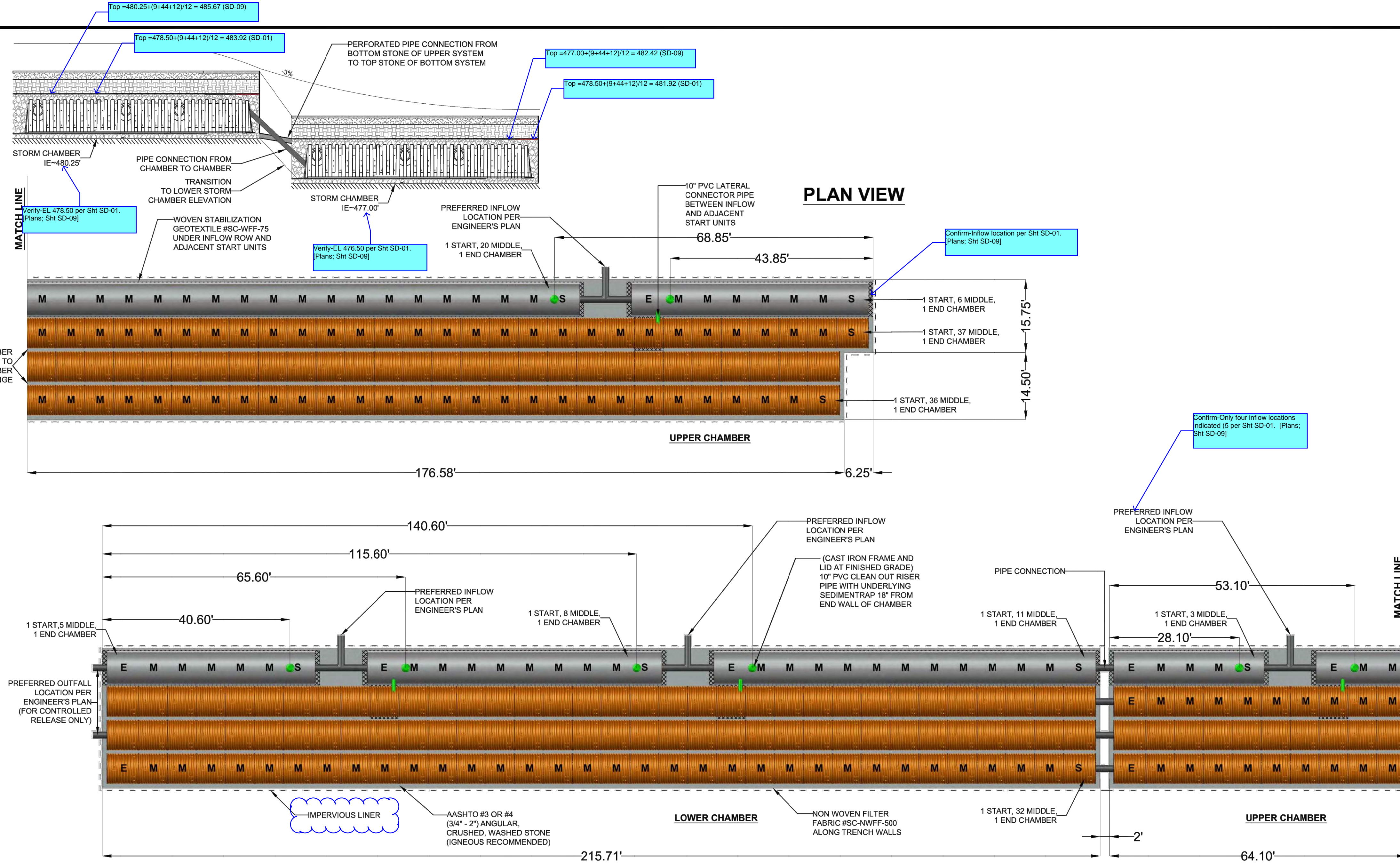
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 1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
 P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

STORM DRAINAGE STANDARD DETAILS

DRAWING NO.
 27 OF 58
SD-08

LAYOUT: SD-09 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004_Shib&TCParkingExpansion\98\Sves\CAD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:45:00 AM

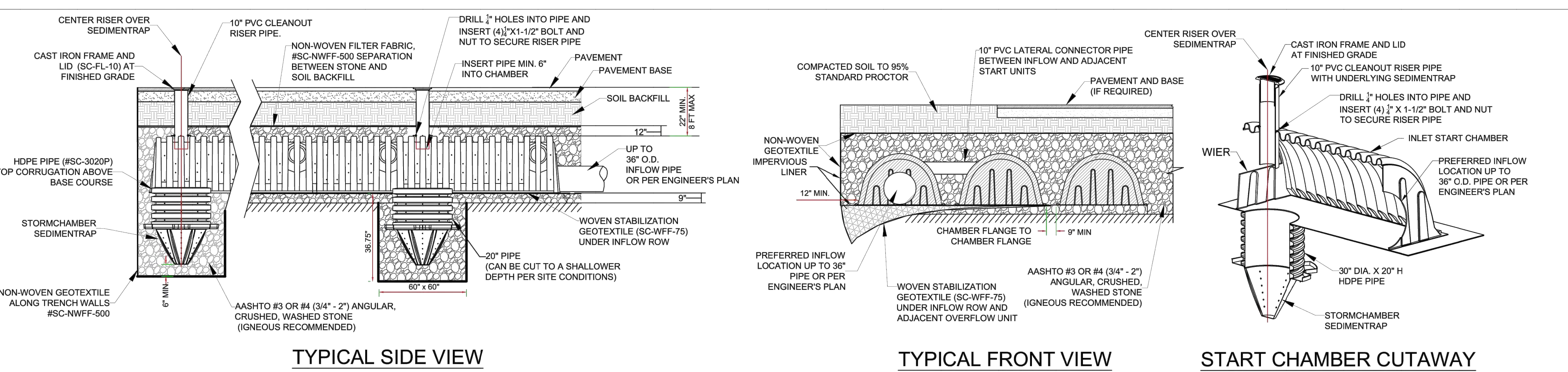
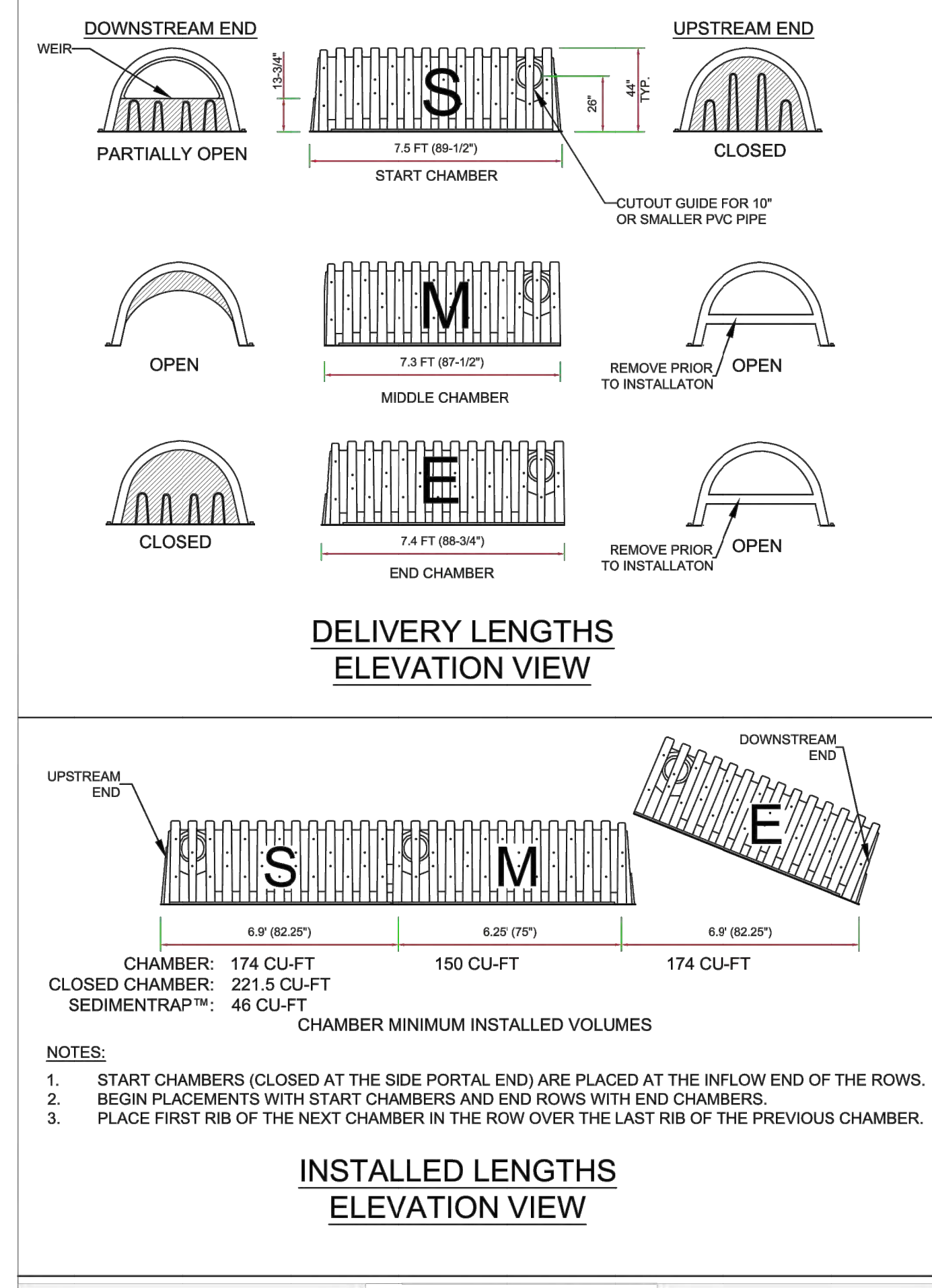


APPROVED

BY: _____
 CITY OF PUYALLUP
 ENGINEERING DEPARTMENT

DATE: _____

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MATERIAL LIST

DESCRIPTION	STOCK CODE	QTY	UNITS
CHAMBERS AND ACCESSORIES:			
START CHAMBER	SC-44105-S-O	12	EACH
MIDDLE CHAMBER	SC-44105-M-O	258	EACH
END CHAMBER	SC-44105-E-O	12	EACH
CLOSED CHAMBER	SC-44105-C-O	N/A	EACH
SEDIMENTRAP™	SC-ST	8	EACH
NON-WOVEN GEOTEXTILE	SC-NWFF-500	17	SQ FT
WOVEN STABILIZATION GEOTEXTILE	SC-WFF-75	6	SQ FT
30" X 20" HDPE PIPE FOR SEDIMENTRAP™	SC-3020P	8	EACH
10" CAST IRON FRAME AND LID	SC-FL-10	8	EACH
MATERIALS BY OTHERS:			
10" DIAMETER RISER PIPE	OTHERS	8	EACH
10" DIAMETER LATERAL PIPE	OTHERS	4	EACH
IN-PLACE EXCAVATION (NO BULKING FACTOR)	OTHERS	2694.26	CU YD
STONE BACKFILL	OTHERS	1736.62	CU YD
1/4" X 1-1/2" NUT AND BOLT	OTHERS	32	EACH
3" SCREWS	OTHERS	32	EACH
IMPERVIOUS LINER	OTHERS	2655.15	SQ YD

PROJECT NAME : PUYALLUP, WA OFFICE PARK
 PROJECT LOCATION : PUYALLUP, WA

PROJECT # 1362
 DATE: 3/17/2021
 DRAWN BY: ARH



SC-44105 STORMCHAMBER LAYOUT
 MEETS OR EXCEEDS ASTM F2922 AND ASTM F2787

NOTE:
 SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DCS	DCS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: Q4-PS0731200C-SD-HS
 JOB No: 217-7312-004
 DATE: MARCH 2022

Parametrix
 ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

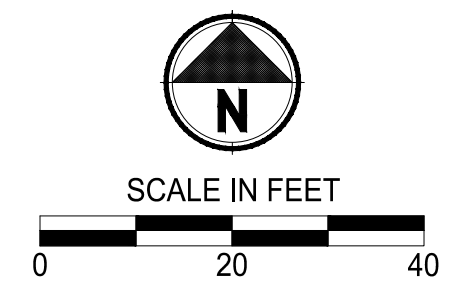
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 P 253.604.6600
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

STORM DRAINAGE STANDARD DETAILS

DRAWING NO.
SD-09
 28 OF 58

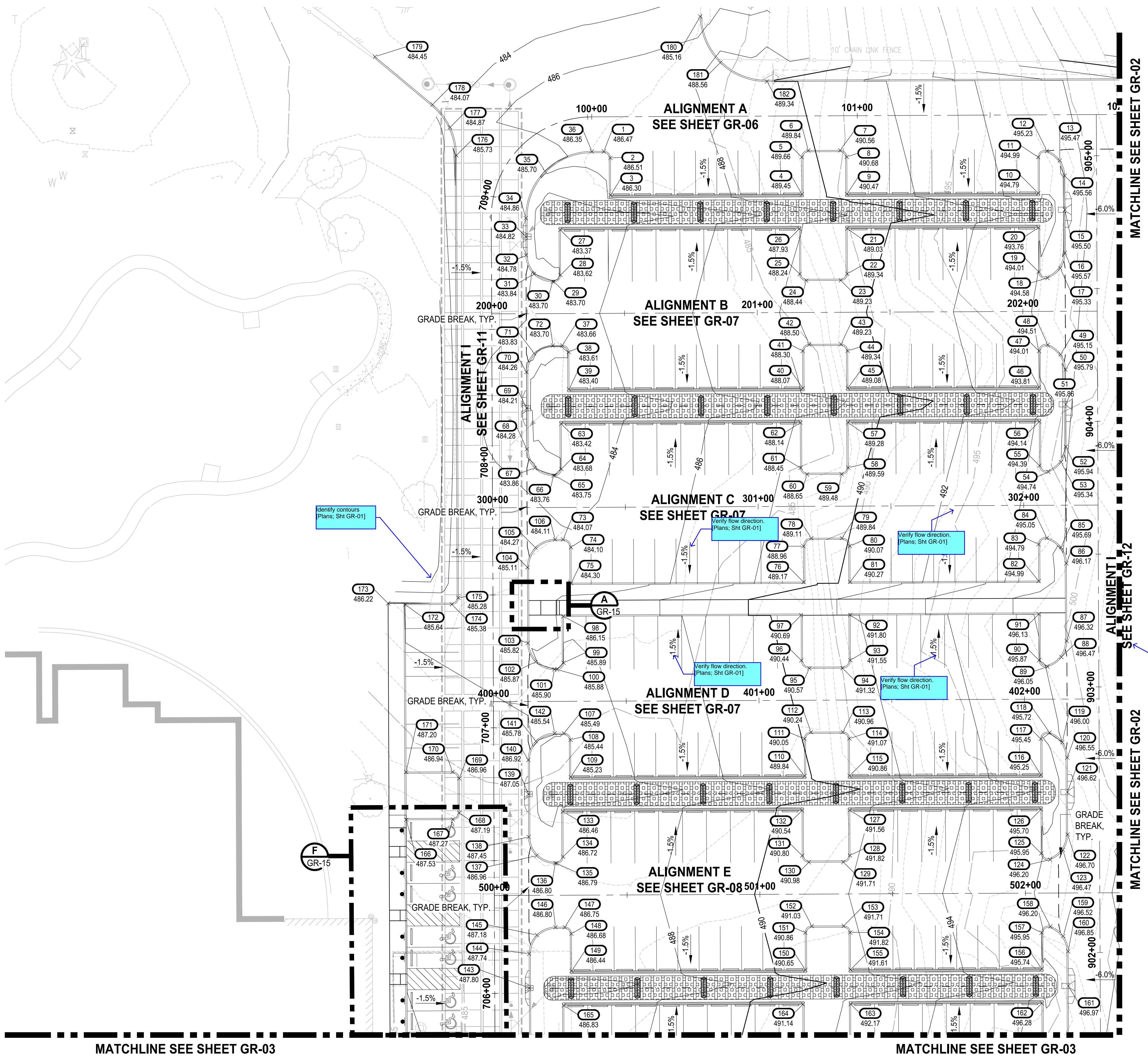
APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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- LEGEND:**
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - ROADWAY CENTERLINE
 - PROPERTY BOUNDARY
 - - - - - CUT LIMITS
 - - - - - FILL LIMITS

- GENERAL NOTE:**
1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 2. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS AND GRADES.
 3. TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
 4. GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
 5. INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

- CONSTRUCTION NOTE:**
- 1 SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
 - 2 CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.



NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

LAYOUT: GR-01 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TParkingExpansion\995\scs\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:44:07 AM

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

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FILE NAME: Q3-PS0731200C-GR
 JOB No. 217-7312-004
 DATE: MARCH 2022



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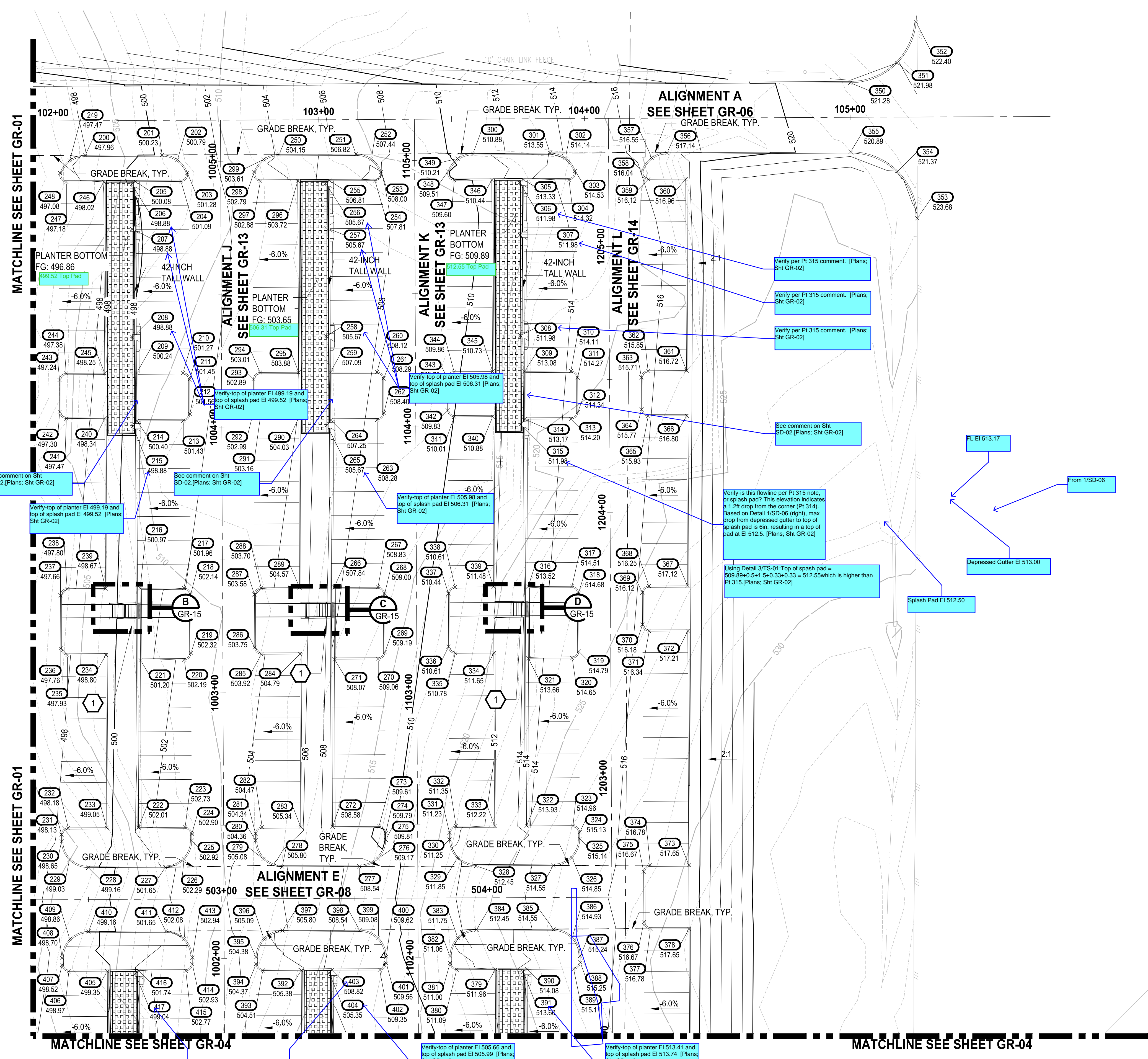
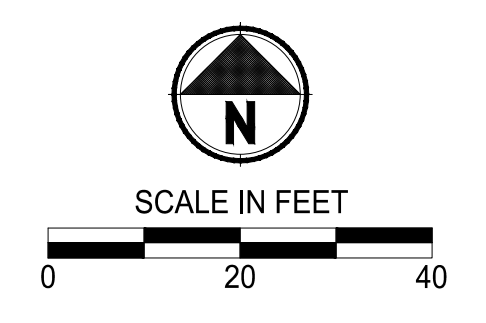
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 P 253.604.6600
 WWW.PARAMETRIX.COM

PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

GRADING PLAN

DRAWING NO.
GR-01
 30 OF 58

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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- LEGEND:**
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - ROADWAY CENTERLINE
 - PROPERTY BOUNDARY
 - CUT LIMITS
 - FILL LIMITS

- GENERAL NOTE:**
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- 1 SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
 - 2 CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

NOTE: SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

LAYOUT: GR-02 PATH: U:\P\50\Projects\Cheris\7312-7312-004_SIB&TParkingExpansion\98\Drawings\CA\00\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:44:15 AM

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	FLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: Q3-P-20731200C-GR
 JOB No: 217-7312-004
 DATE: MARCH 2022



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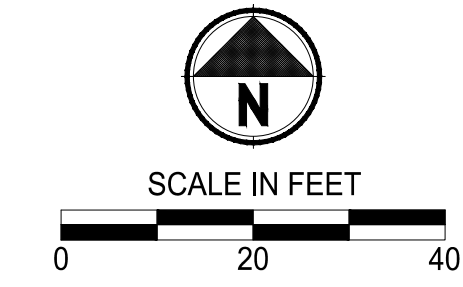
PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

GRADING PLAN

DRAWING NO.
GR-02
 31 OF 58

MATCHLINE SEE SHEET GR-01

MATCHLINE SEE SHEET GR-01

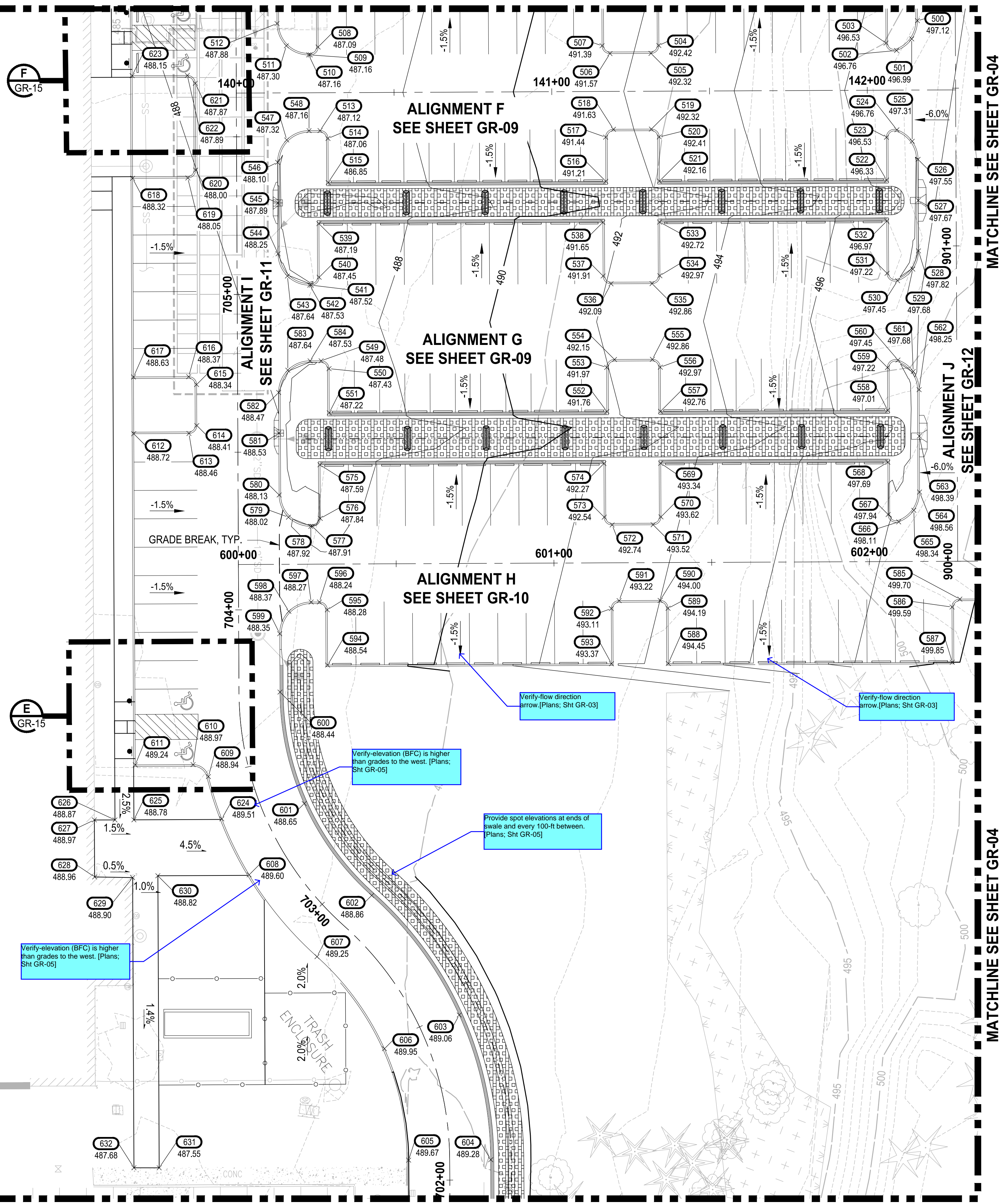


APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

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LEGEND:

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- ROADWAY CENTERLINE
- PROPERTY BOUNDARY
- C---C CUT LIMITS
- F---F FILL LIMITS

GENERAL NOTE:

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
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CONSTRUCTION NOTE:

- 1 SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
- 2 CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

MATCHLINE SEE SHEET GR-05

MATCHLINE SEE SHEET GR-05

NOTE: SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

LAYOUT: GR-03 PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004 SH&T\CParkingExpansion\98\SWs\CADD\DWG PLOTTED BY: pelitrus DATE: Friday, March 4, 2022 10:44:23 AM

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME: Q3-P50731200C-GR
JOB No: 217-7312-004
DATE: MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

GRADING PLAN

DRAWING NO.
GR-03
32 OF 58

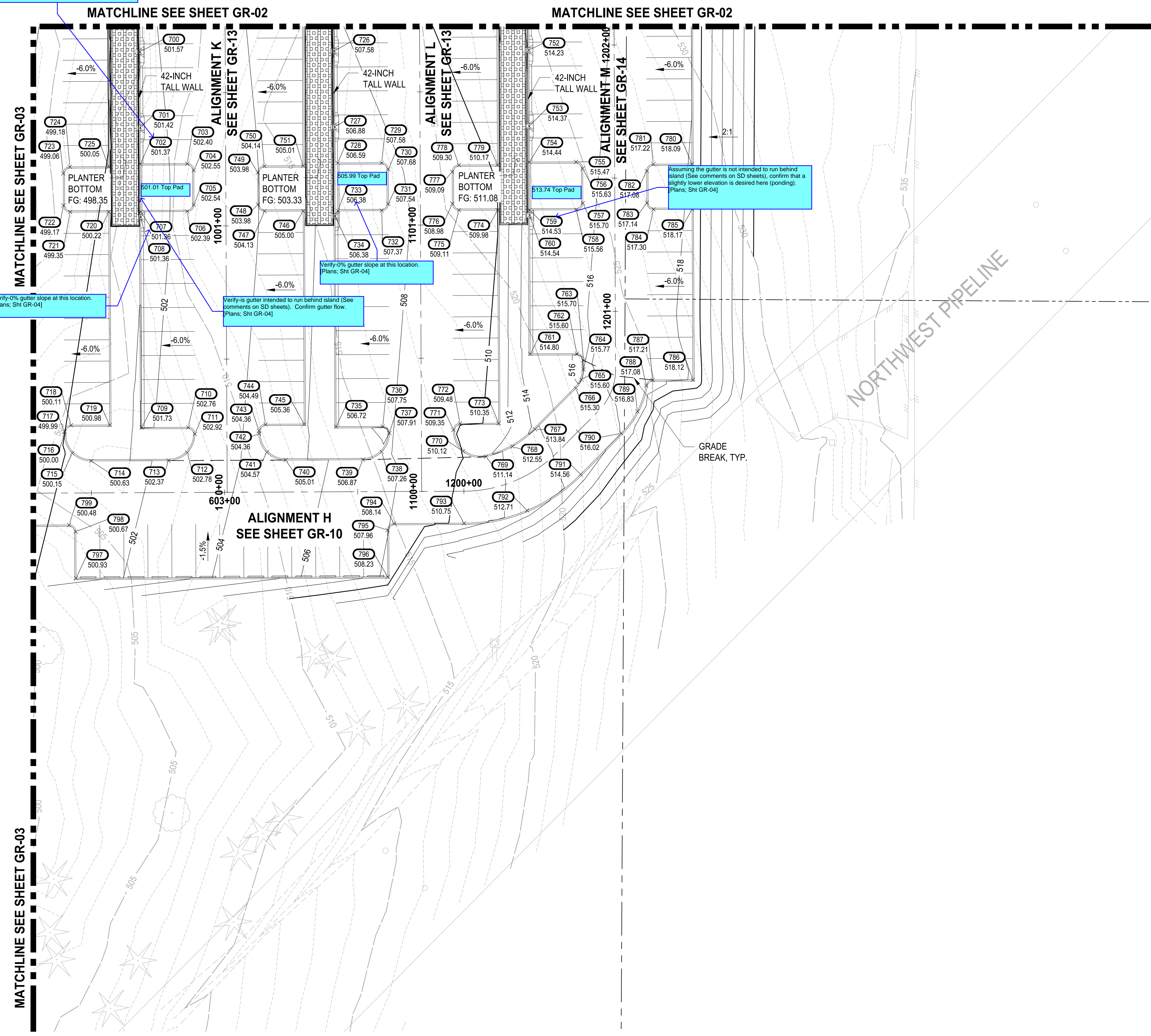
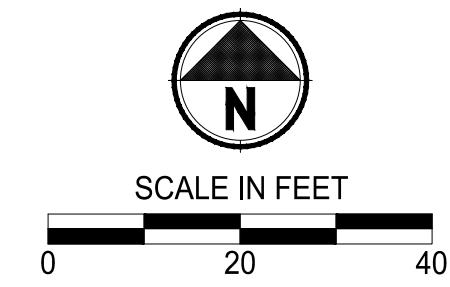
Verify if gutter does not run past, ponding at this location.
Plans: Sht GR-04

APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

NOTE:
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LEGEND:

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- ROADWAY CENTERLINE
- PROPERTY BOUNDARY
- - - - - CUT LIMITS
- - - - - FILL LIMITS

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5. INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

CONSTRUCTION NOTE:

1. SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
2. CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

LAYOUT: GR-04 P:\150\Projects\217-7312-004_SIB&TParkingExpansion\98\Sves\CADD\DWG PLOTTED BY: peltrius DATE: Friday, March 4, 2022 10:44:29 AM

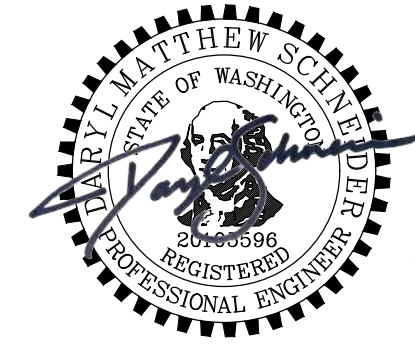
REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			RLP
			CHECKED
			DMS
			APPROVED
			DMS

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

FILE NAME
Q3-PS0731200C-GR

JOB No.
217-7312-004

DATE
MARCH 2022



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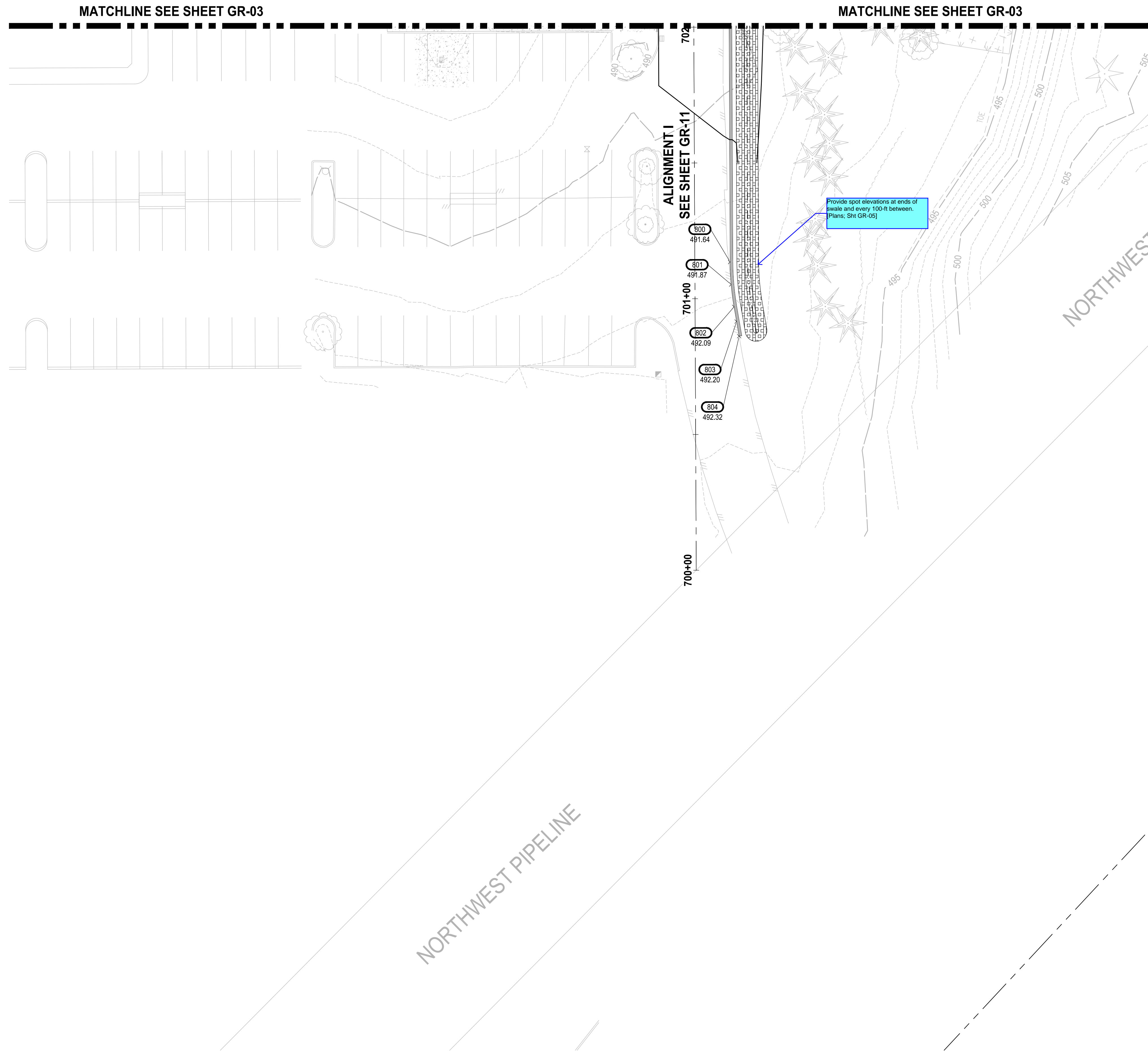
1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
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PROJECT NAME
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PUYALLUP, WA

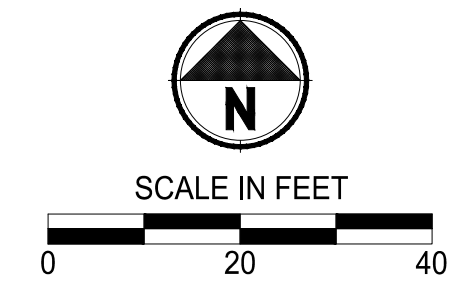
GRADING PLAN

DRAWING NO.
33 OF 58
GR-04

LAYOUT: GR-05 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TCParkingExpansion\98Sves\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:44:33 AM



Provide spot elevations at ends of swale and every 100-ft between. (Plans, Sh# GR-05)



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 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
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- LEGEND:**
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - ROADWAY CENTERLINE
 - PROPERTY BOUNDARY
 - C----- CUT LIMITS
 - F----- FILL LIMITS

- GENERAL NOTE:**
1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 2. CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS AND GRADES.
 3. TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
 4. GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
 5. INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

- CONSTRUCTION NOTE:**
1. SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
 2. CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**



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GRADING PLAN

REVISIONS	DATE	BY	DESIGNED WZG

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 FILE NAME: 05-PS0731200C-GR
 JOB No.: 217-7312-004
 DATE: MARCH 2022

DRAWING NO.
 34 OF 58
GR-05



Know what's below.
Call before you dig.

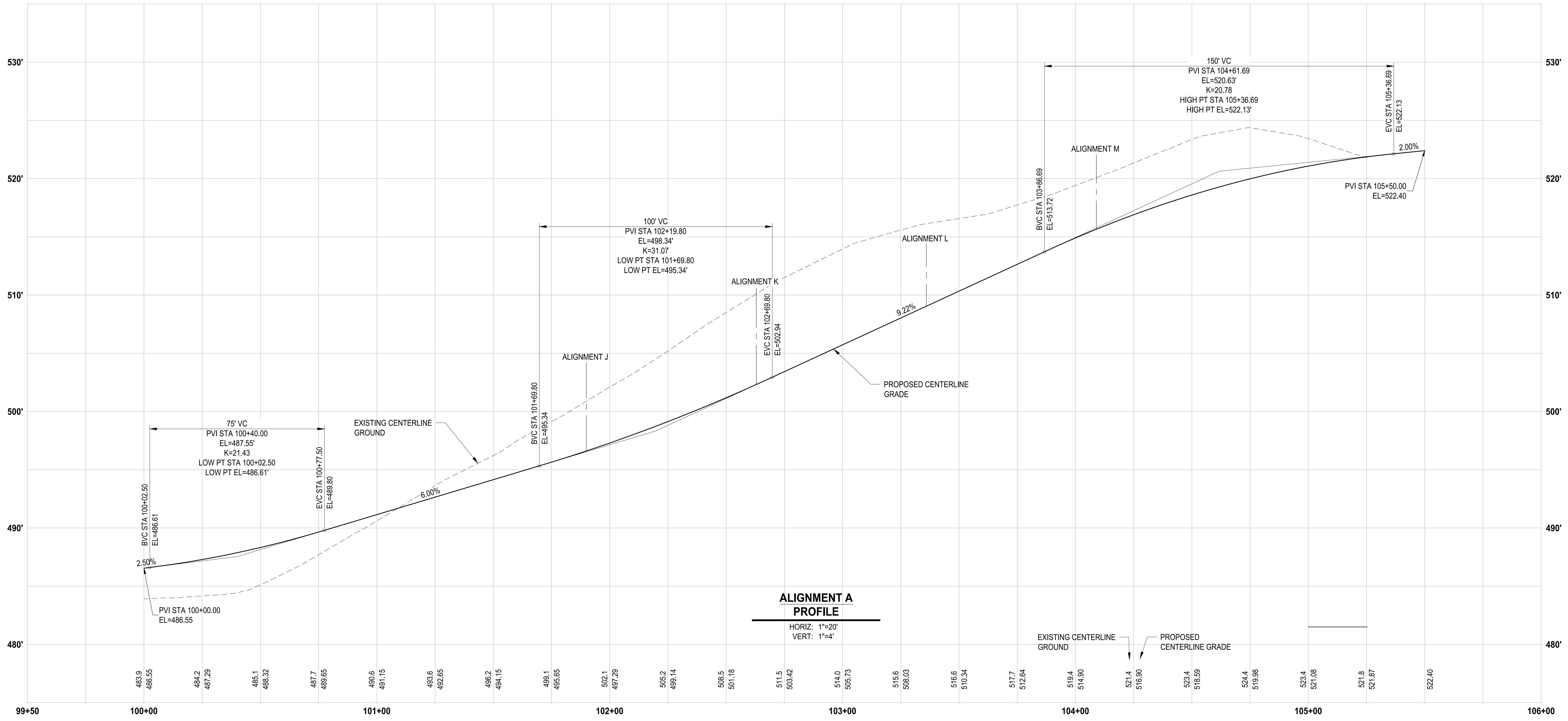
APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

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ALIGNMENT A PROFILE
 HORIZ: 1"=20'
 VERT: 1"=4'

NOTE: SYMBOLS NOT TO SCALE

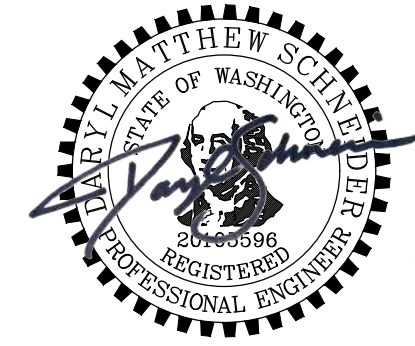
100% REVIEW SUBMITTAL

LAYOUT: GR-06 PATH: U:\PSO\Projects\17-7312-004 SH&T\TParkingExpansion\98\Sves\CADD\DWG PLOTTED BY: peltrus DATE: Friday, March 4, 2022 10:44:38 AM

REVISIONS	DATE	BY	DESIGNED
			WZG
			FLP
			DMS
			DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: OS-PS0731200C-GR
 JOB No: 17-7312-004
 DATE: MARCH 2022



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ALIGNMENT A PROFILE

DRAWING NO.
35 OF 58

GR-06



Know what's below.
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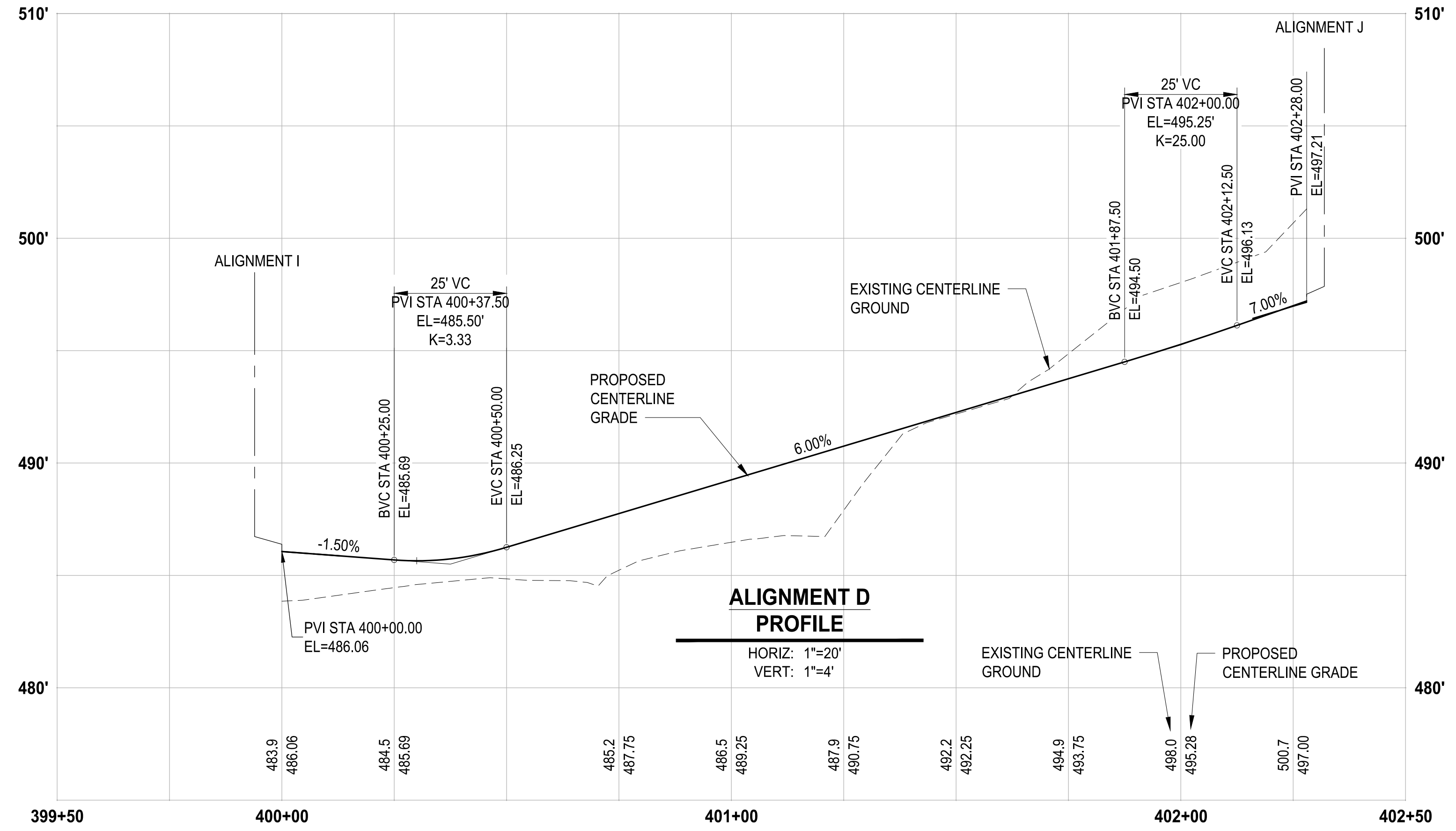
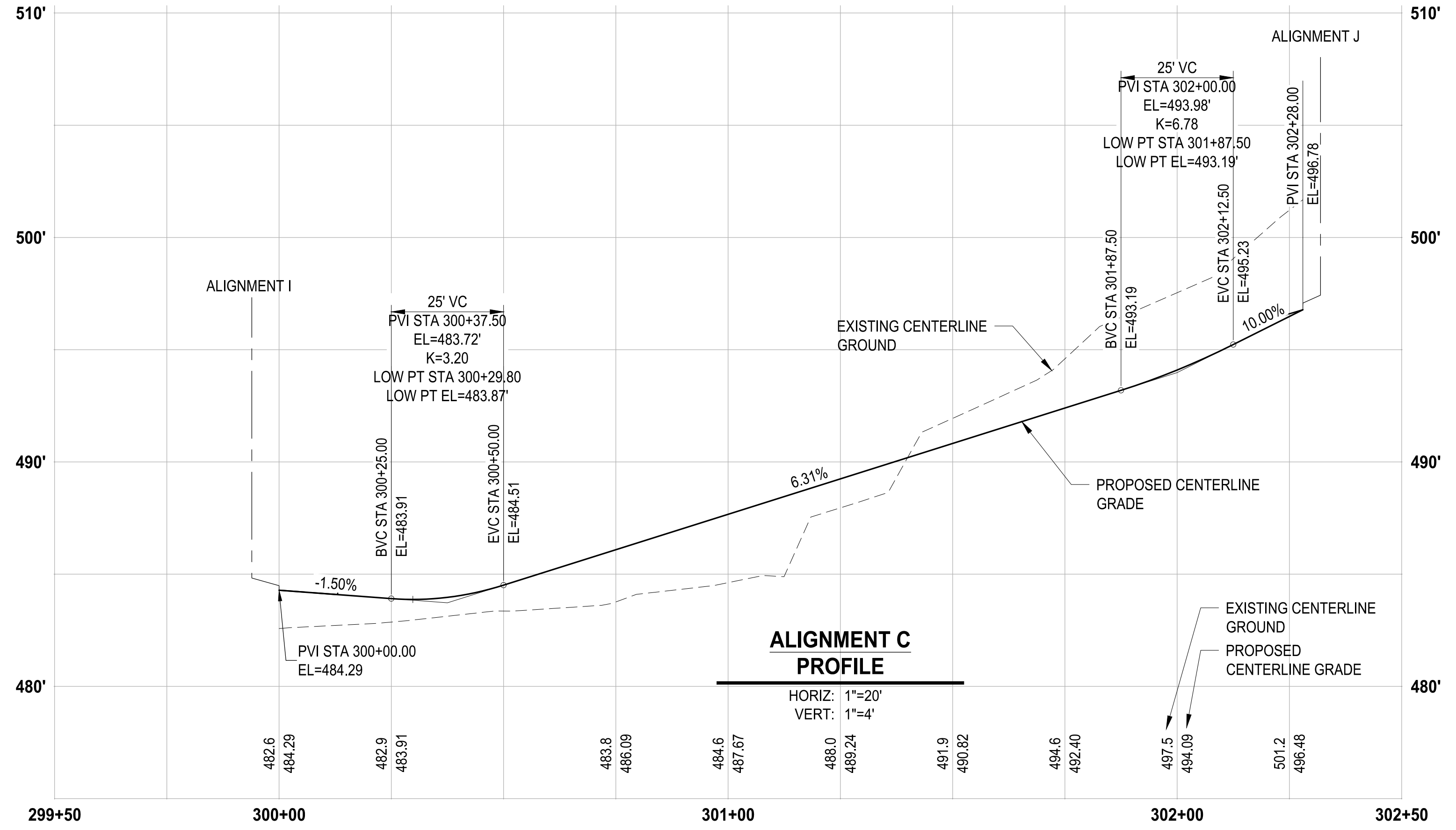
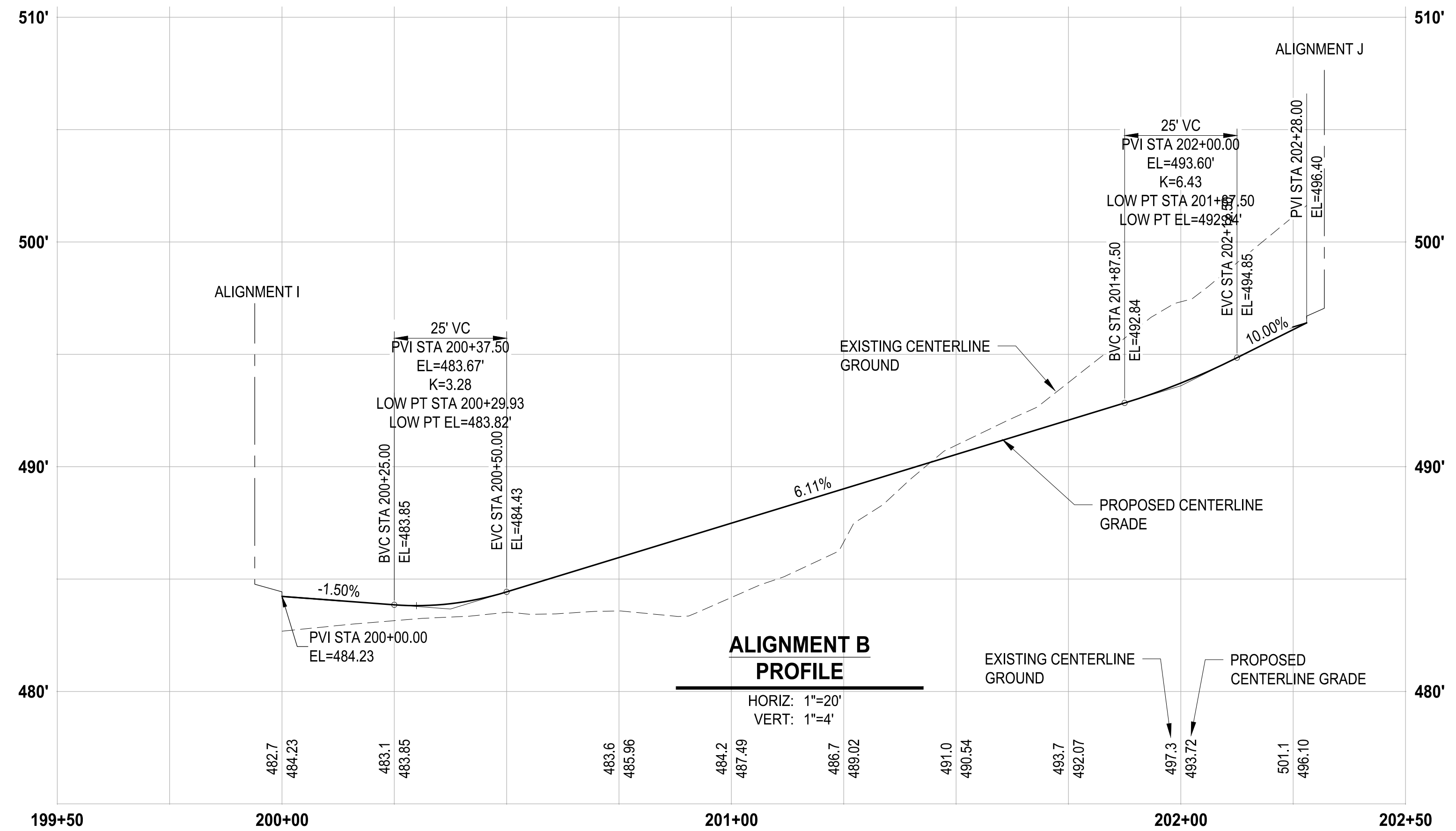
APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

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NOTE: SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

LAYOUT: GR-07 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004 SH&T\ParkingExpansion\98\Sves\CADD\DWG PLOTTED BY: pelitrus DATE: Friday, March 4, 2022 10:44:42 AM

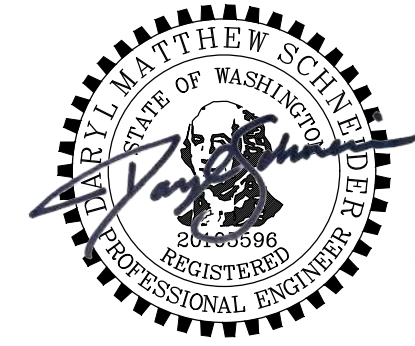
REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			RLP
			CHECKED
			DMS
			APPROVED
			DMS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME: D:\3-PSO\731200C-GR

JOB No: 217-7312-004

DATE: MARCH 2022



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ALIGNMENT B, C & D PROFILES

DRAWING NO.
36 OF 58
GR-07



Know what's below.
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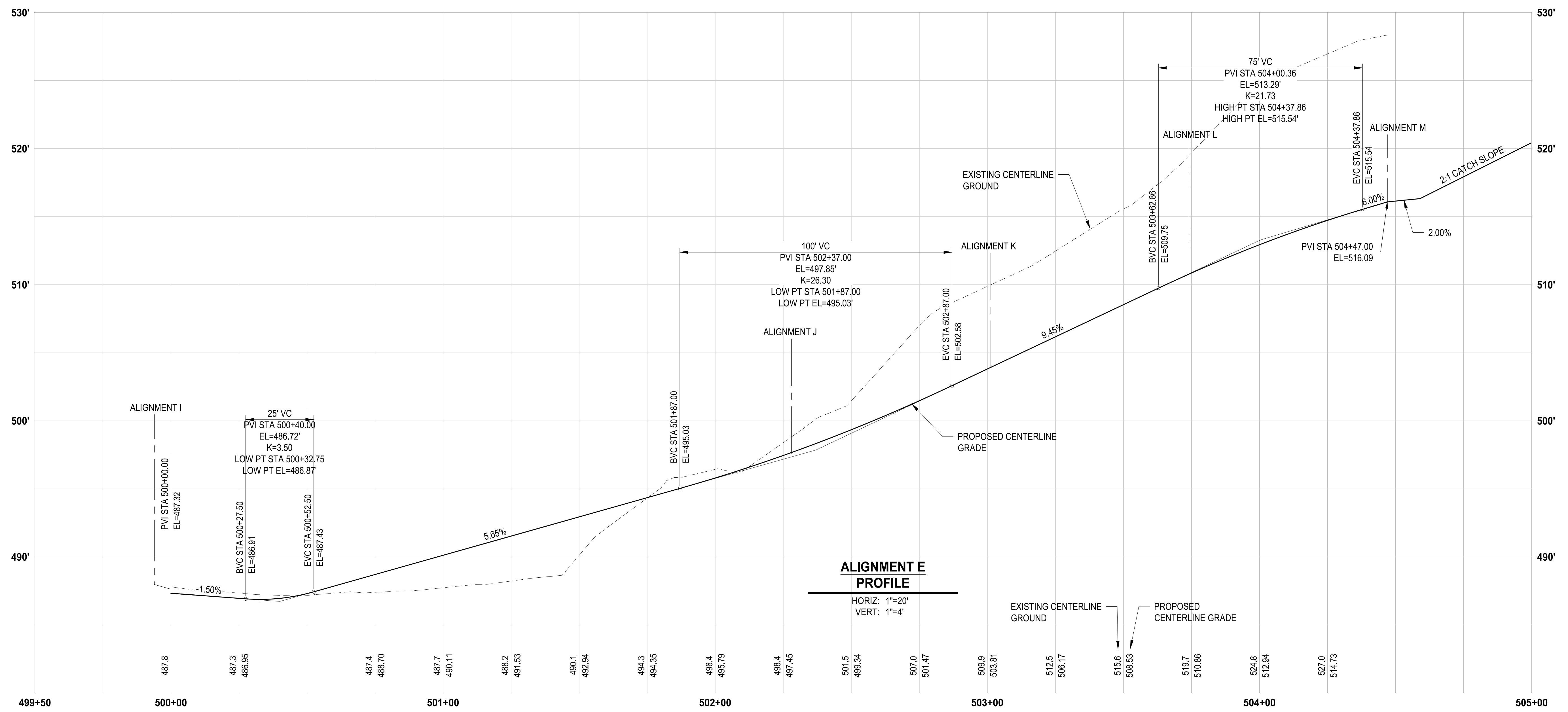
APPROVED

BY: _____
CITY OF PUYALLUP
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DATE: _____

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engineer.



NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

LAYOUT: GR-08 PATH: U:\P50\Projects\Cheris\7312-Benaroya\217-7312-004 SHB&TParkingExpansion\98\Sves\CA00\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:44:46 AM

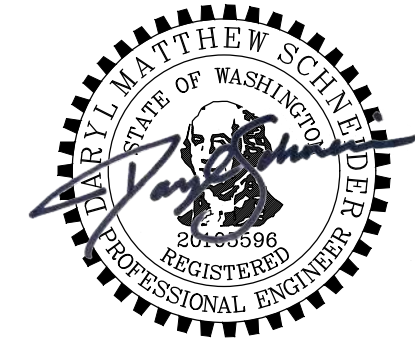
REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED

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FILE NAME
03-P50731200C-GR

JOB No.
217-7312-004

DATE
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PUYALLUP, WA

ALIGNMENT E PROFILE

DRAWING NO.
37 OF 58

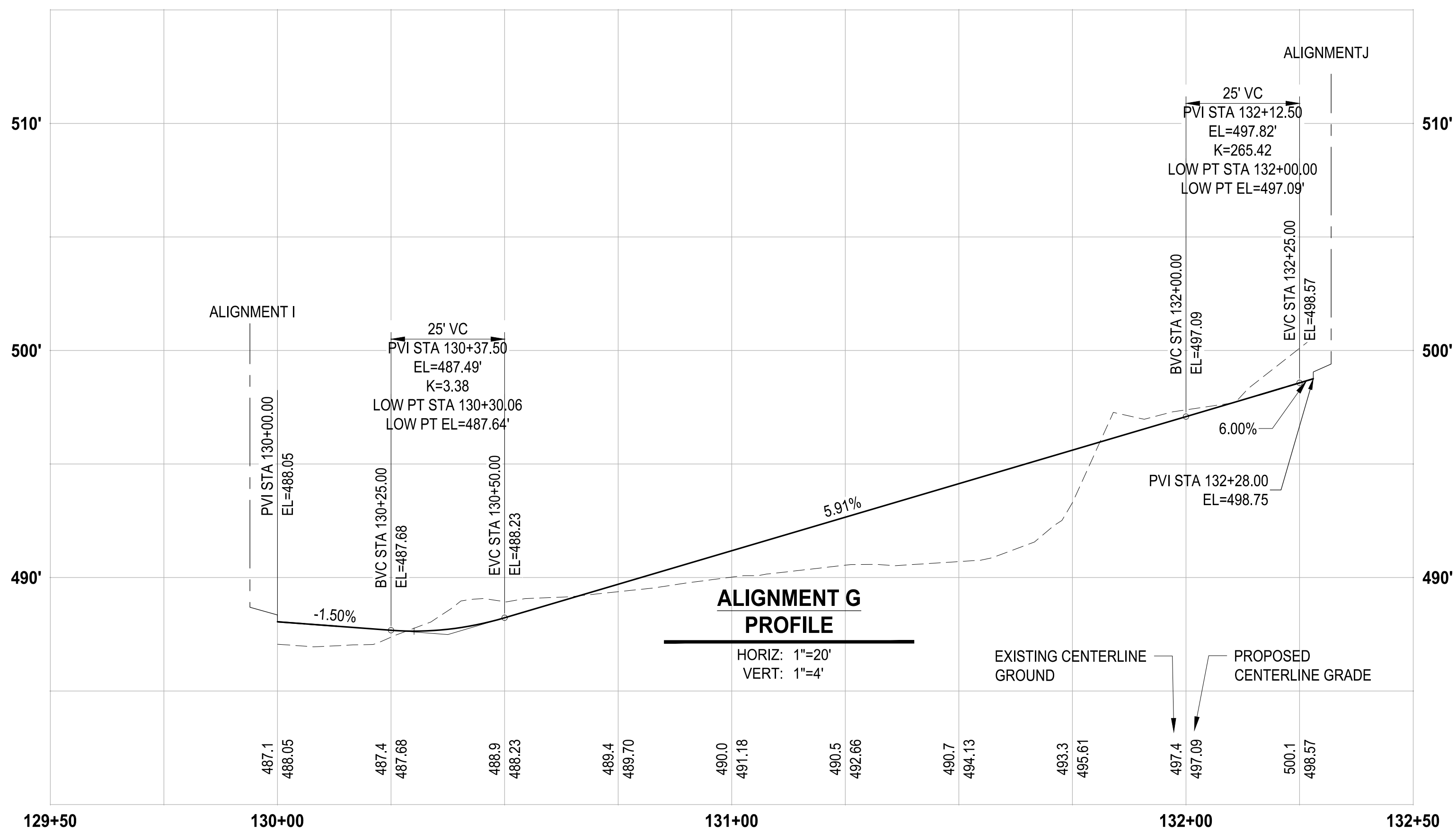
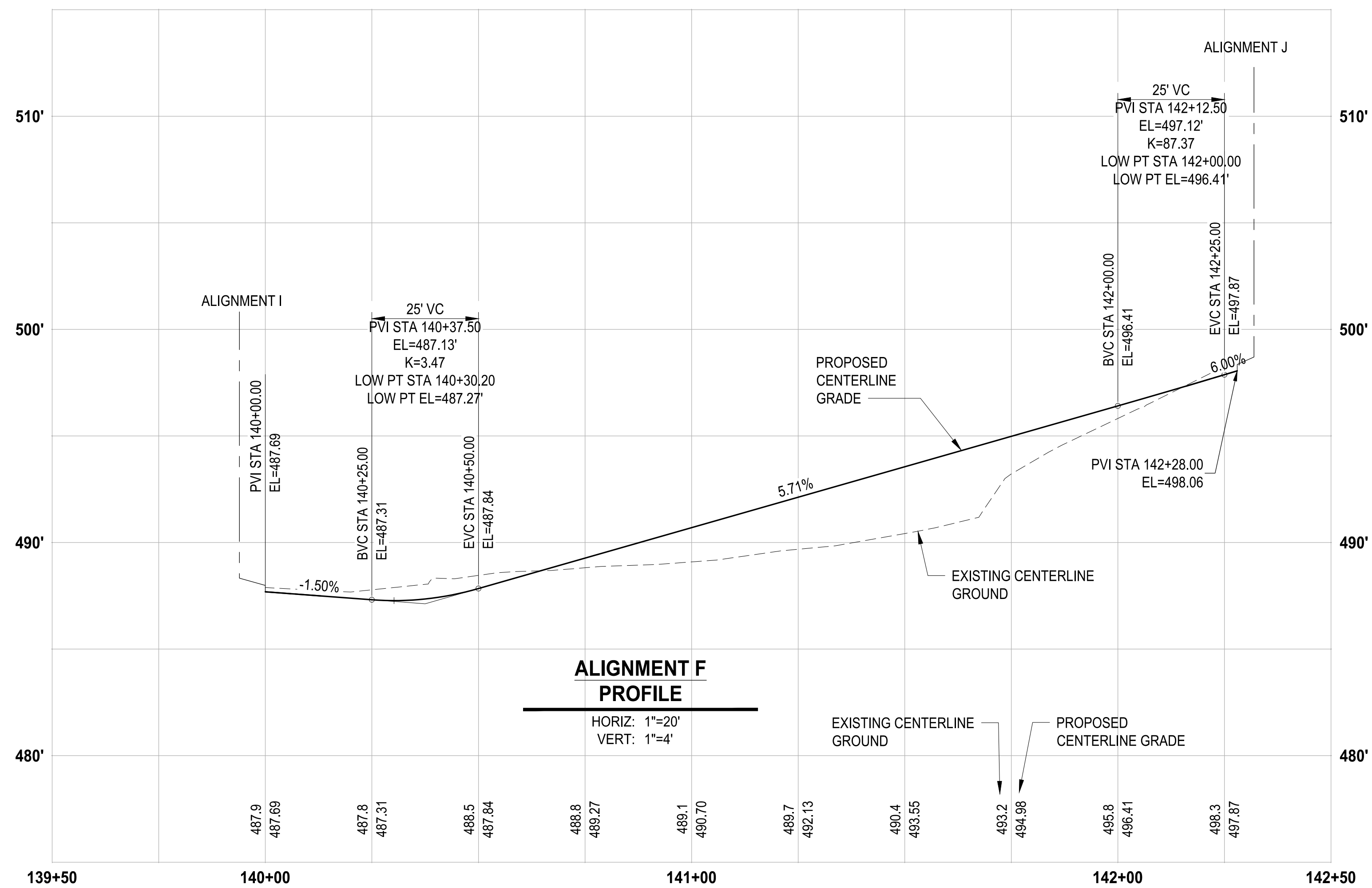
GR-08

LAYOUT: GR-09 PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TCParkingExpansion\98\Sves\CADD\DWG PLOTTED BY: peltrius DATE: Friday, March 4, 2022 10:44:49 AM



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NOTE:
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ALIGNMENT F & G PROFILES

DRAWING NO.
38 OF 58
GR-09

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: OS-PS0731200C-GR
JOB No: 217-7312-004
DATE: MARCH 2022



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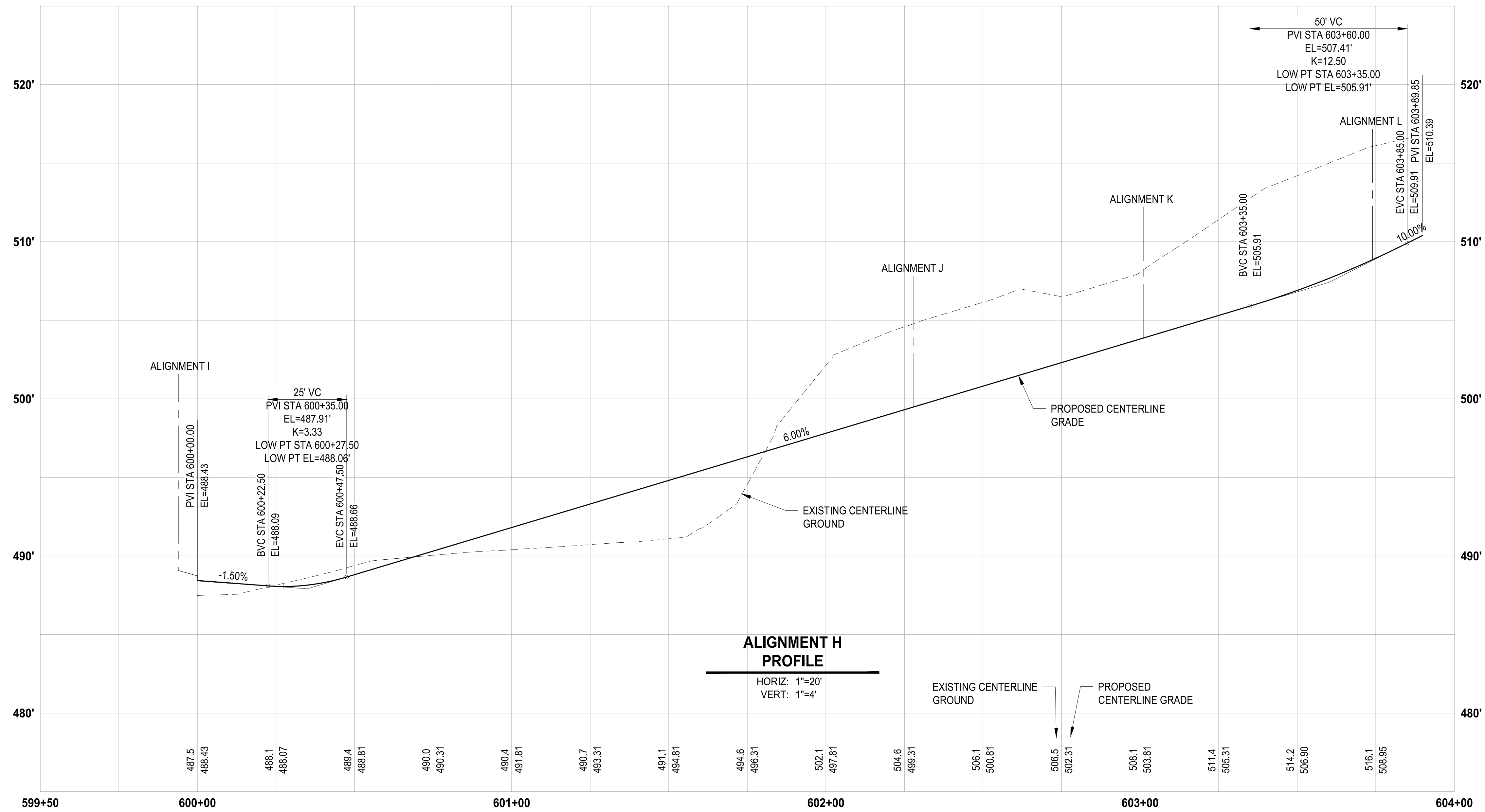
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BY: _____
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ENGINEERING DEPARTMENT

DATE: _____

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NOTE:
SYMBOLS NOT TO SCALE

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LAYOUT: GR-10 P:\P\Projects\Projects\7312-7312-004 SHB&T\ParkingExpansion\995\scs\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:44:54 AM

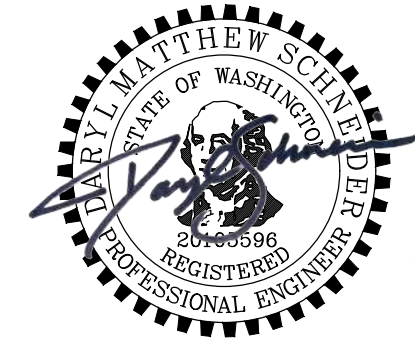
REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

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FILE NAME
03-P\30731200C-GR

JOB No.
217-7312-004

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PUYALLUP, WA

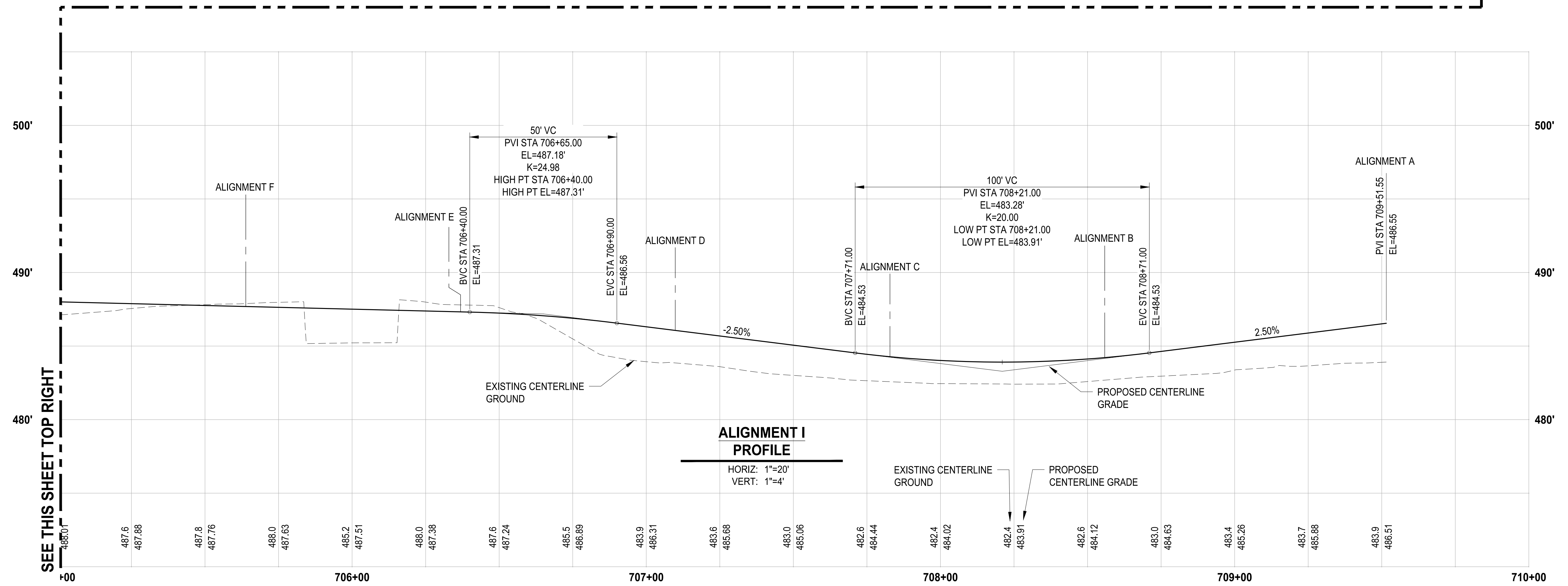
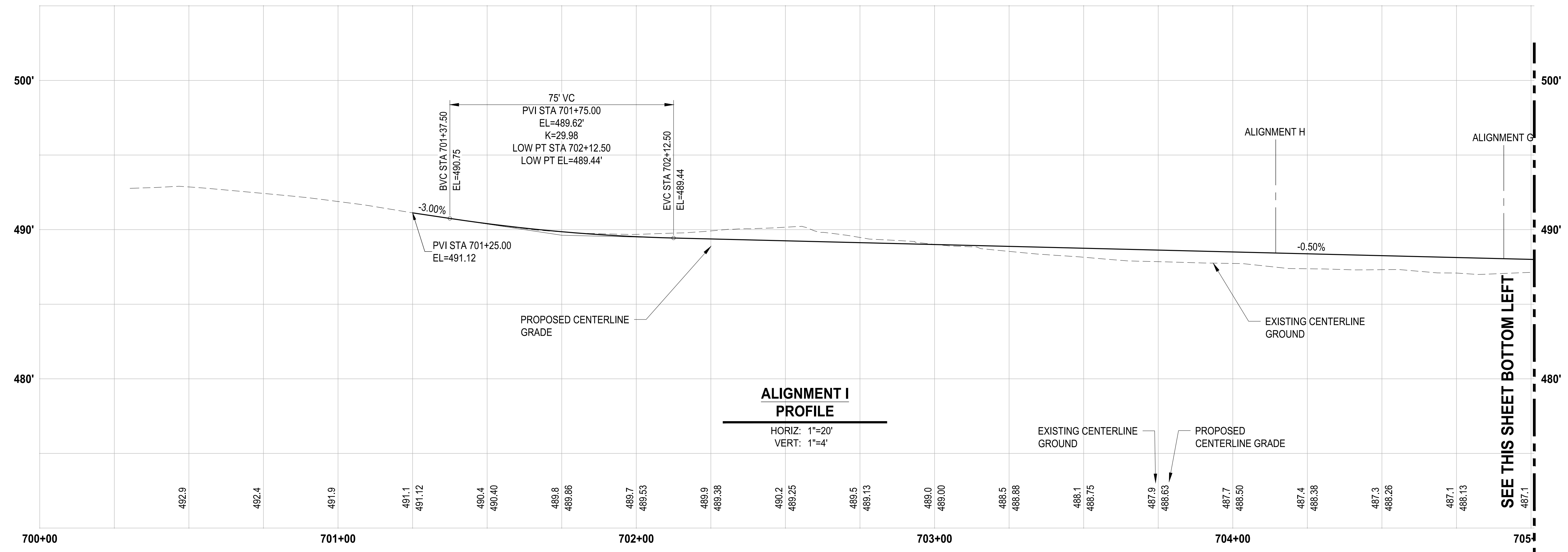
ALIGNMENT H PROFILE

DRAWING NO.
39 OF 58
GR-10

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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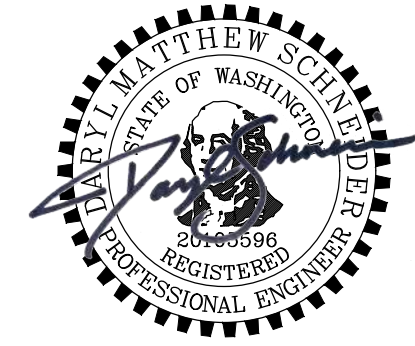


NOTE: SYMBOLS NOT TO SCALE
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PATH: u:\p30\Projects\Clients\7312-Beneroya\217-7312-004-SH&T\ParkingExpansion\985vca\CADD\DWG... PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:45:03 AM
 LAYOUT: GR-11

REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			FLP
			CHECKED
			DMS
			APPROVED
			DMS

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 FILE NAME: OS-P30731200C-GR
 JOB No: 217-7312-004
 DATE: MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

ALIGNMENT I PROFILE

DRAWING NO.
 40 OF 58
GR-11



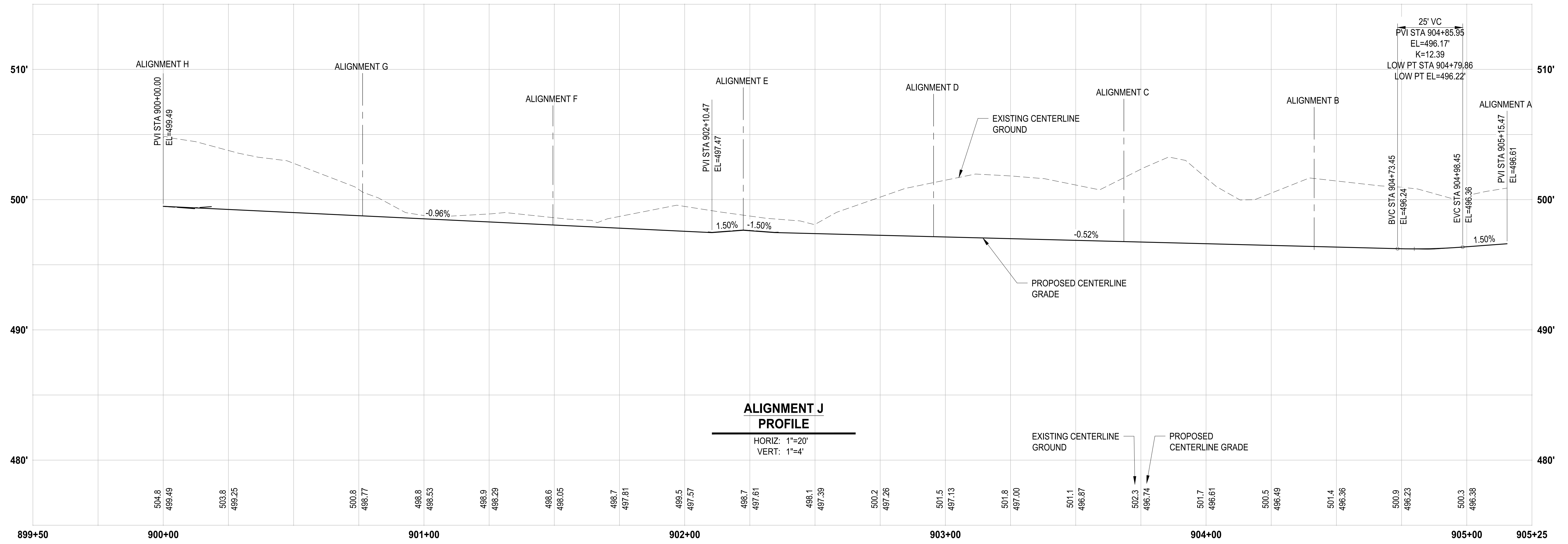
Know what's below.
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APPROVED

BY: _____
CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

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NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

LAYOUT: GR-12 P:\TH: U:\PSD\Projects\Clients\7312-Berkeley\217-7312-004 SH&T\CD\ParkingExpansion\995\cadd\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:45:07 AM

REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			RLP
			CHECKED
			DMS
			APPROVED
			DMS

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY

FILE NAME: 05-PS0731200C-CR
JOB No: 217-7312-004
DATE: MARCH 2022



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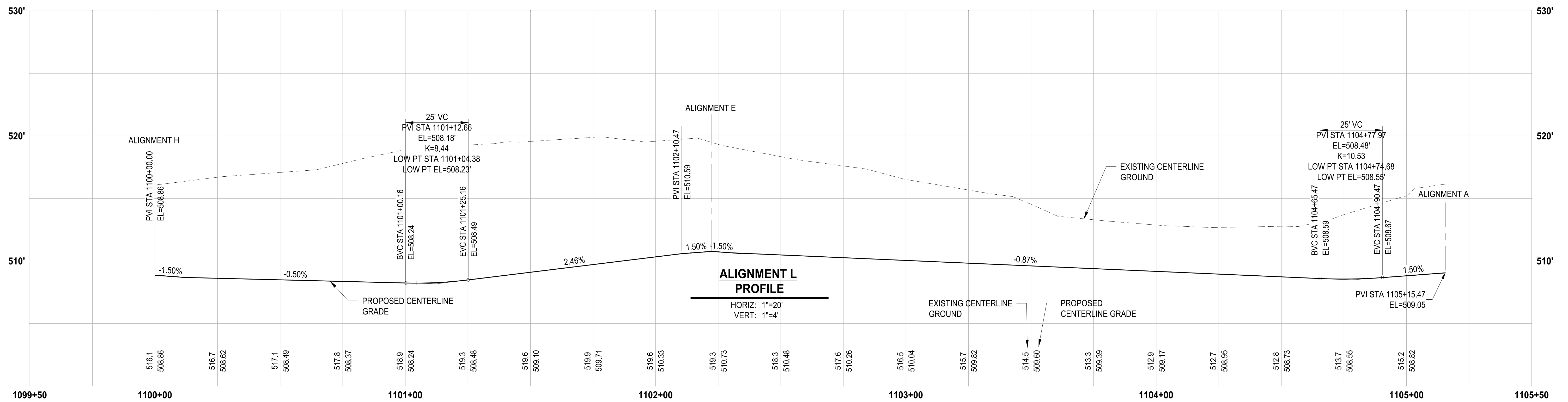
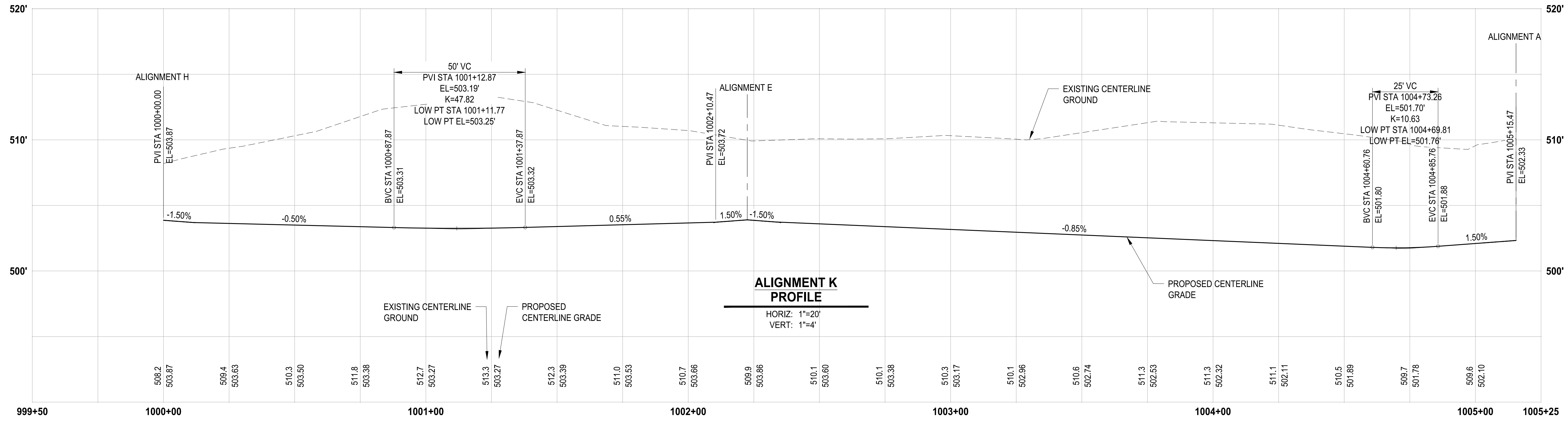
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

ALIGNMENT J PROFILE

DRAWING NO.
41 OF 58
GR-12

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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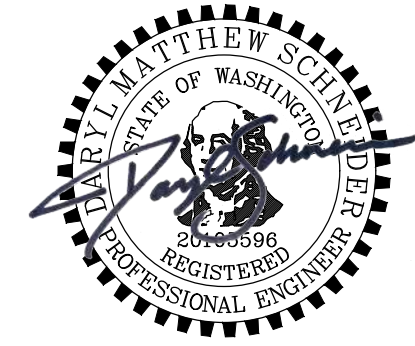


NOTE: SYMBOLS NOT TO SCALE
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LAYOUT: GR-13 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TC Parking Expansion\9985\CAADD\DWG - PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:45:12 AM

REVISIONS	DATE	BY	DESIGNED WZG

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 IF NOT, SCALE ACCORDINGLY
 FILE NAME: OS-PS0731200C-GR
 JOB No: 217-7312-004
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 PUYALLUP, WA

ALIGNMENT K & L PROFILES

DRAWING NO.
 42 OF 58
GR-13



Know what's below.
Call before you dig.

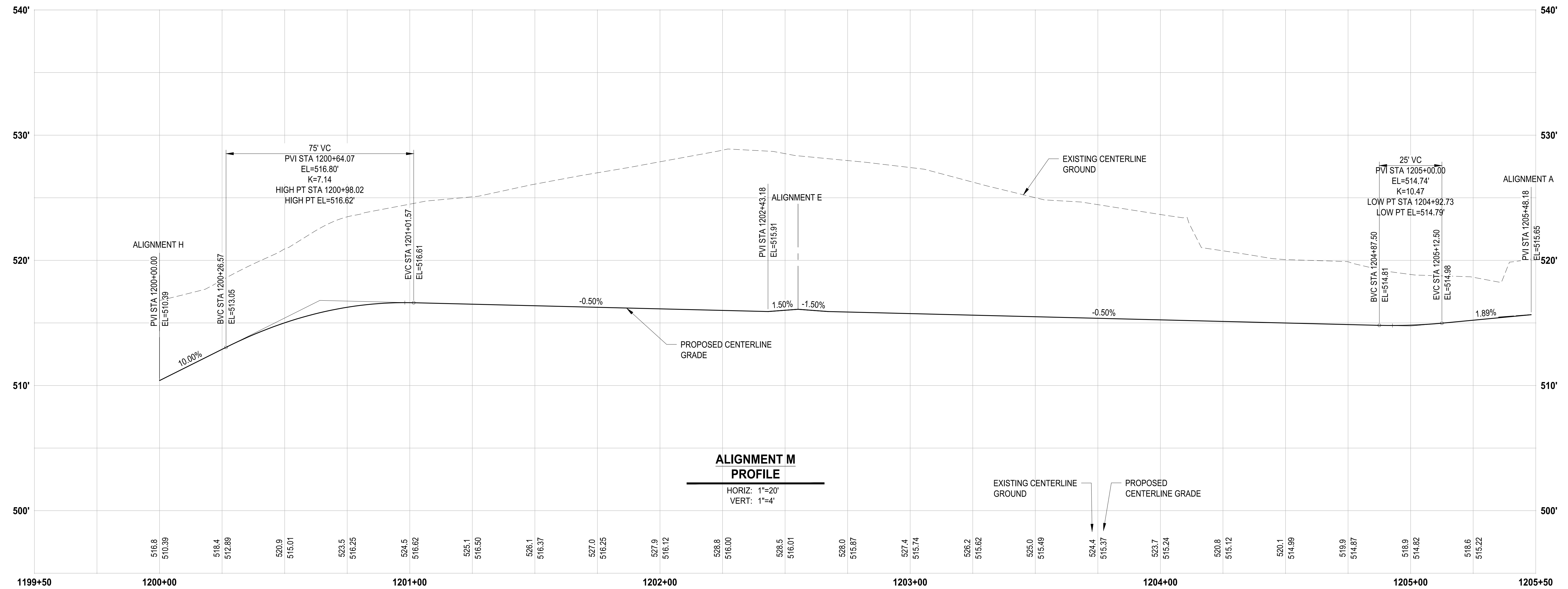
APPROVED

BY: _____ CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

NOTE:
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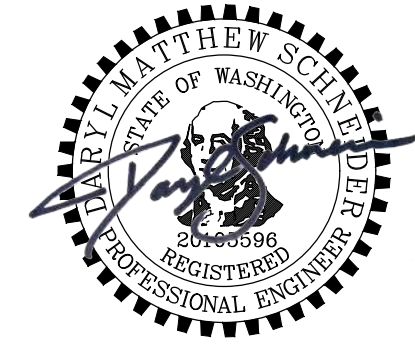


LAYOUT: GR-14 PATH: U:\PSD\Projects\Clients\7312-004-SHB&T\ParkingExpansion\995\cadd\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:45:17 AM

REVISIONS	DATE	BY	DESIGNED
			WZG
			DRAWN
			FLP
			CHECKED
			DMS
			APPROVED
			DMS

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FILE NAME: OS-PS0731200C-GR
JOB No: 217-7312-004
DATE: MARCH 2022



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PUYALLUP, WA

NOTE: SYMBOLS NOT TO SCALE

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ALIGNMENT M PROFILE

DRAWING NO. 43 OF 58
GR-14

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
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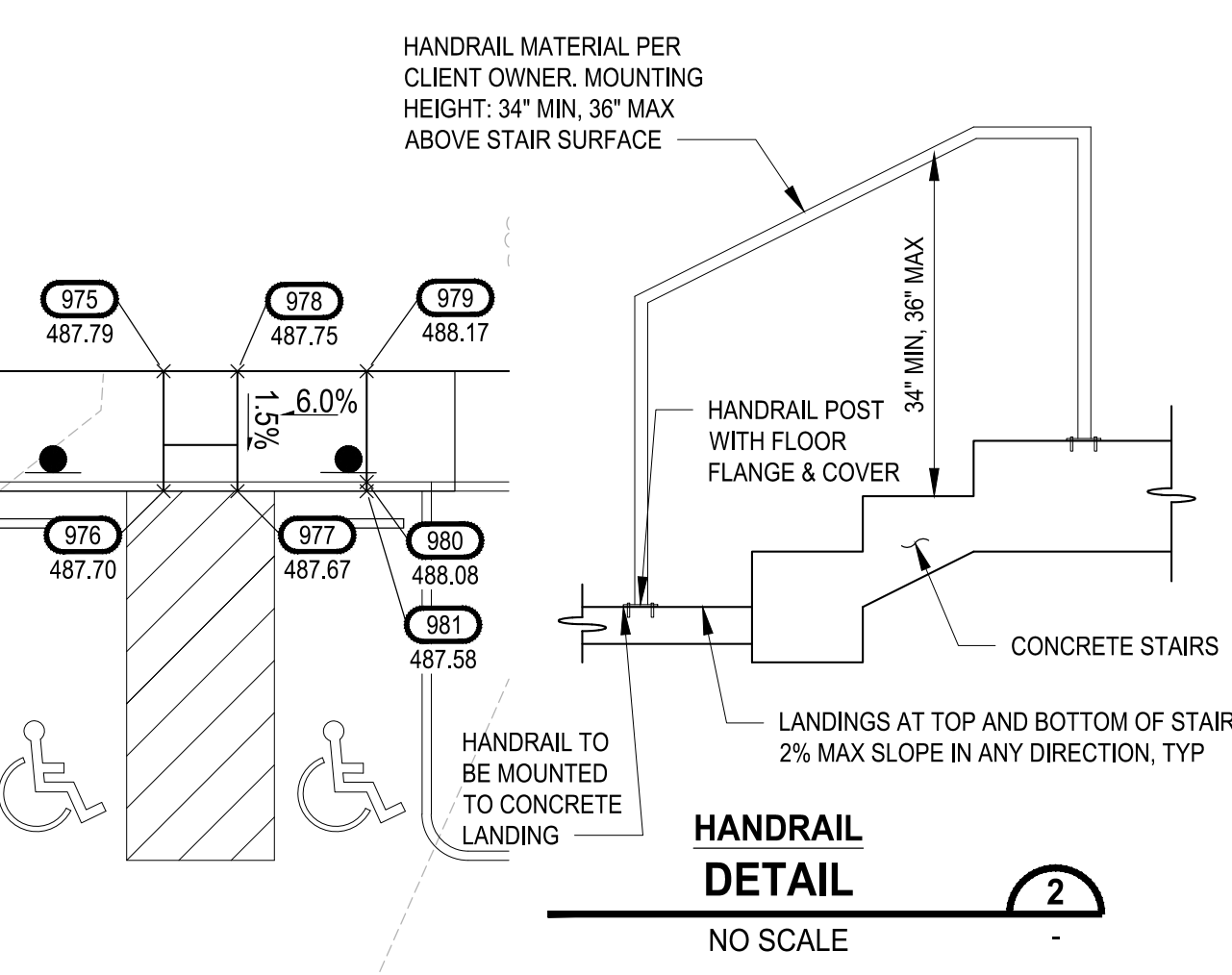
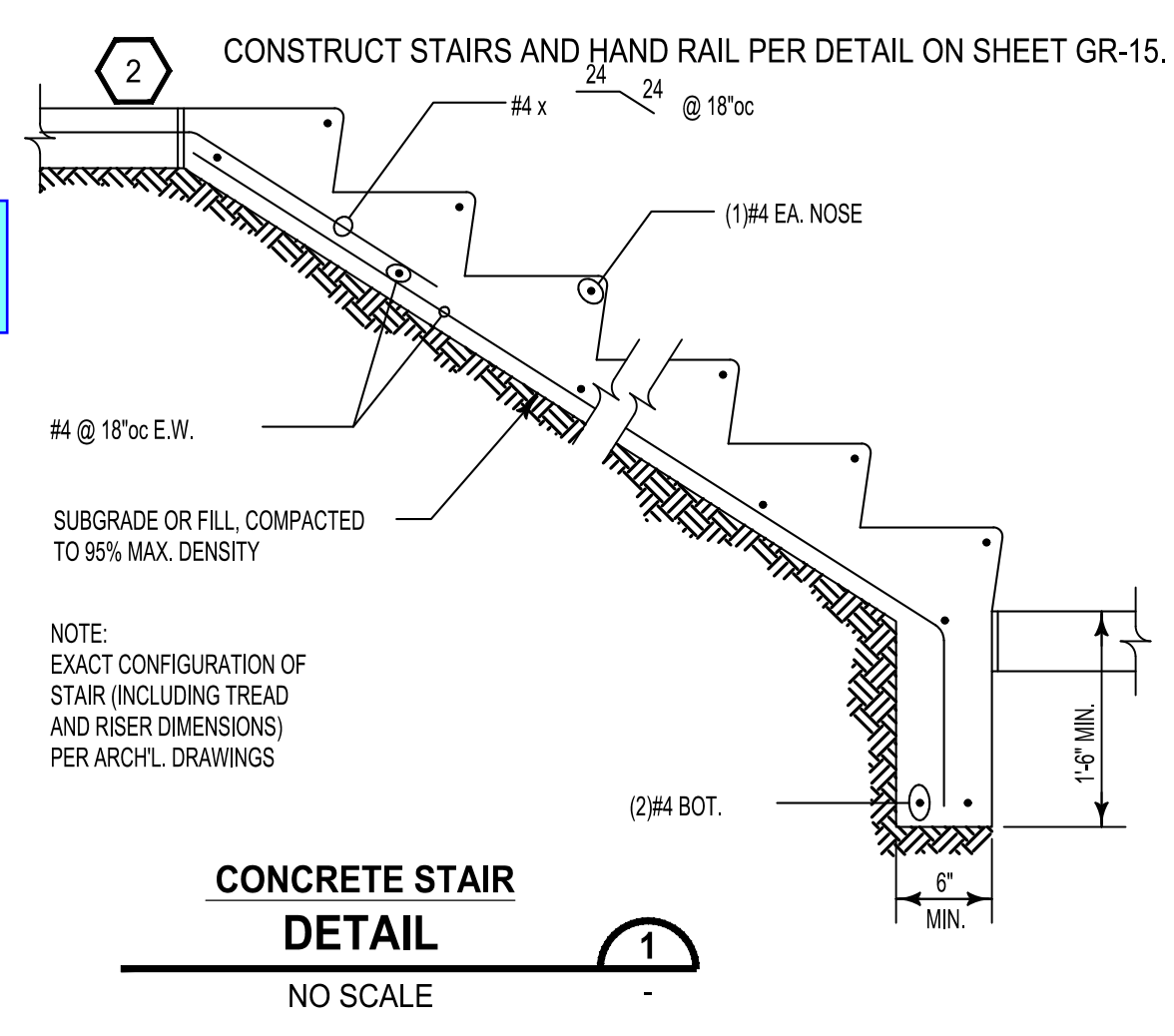


- LEGEND:**
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - - - - - PROPOSED MINOR CONTOUR LINE
 - ROADWAY CENTERLINE
 - - - - - PROPERTY BOUNDARY
 - - - - - CUT LIMITS
 - - - - - FILL LIMITS

- GENERAL NOTE:**
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 - CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS AND GRADES.
 - TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
 - GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
 - INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

CONSTRUCTION NOTE:

1 SEE SHEET GR-15 FOR STAIR GRADING DETAILS.



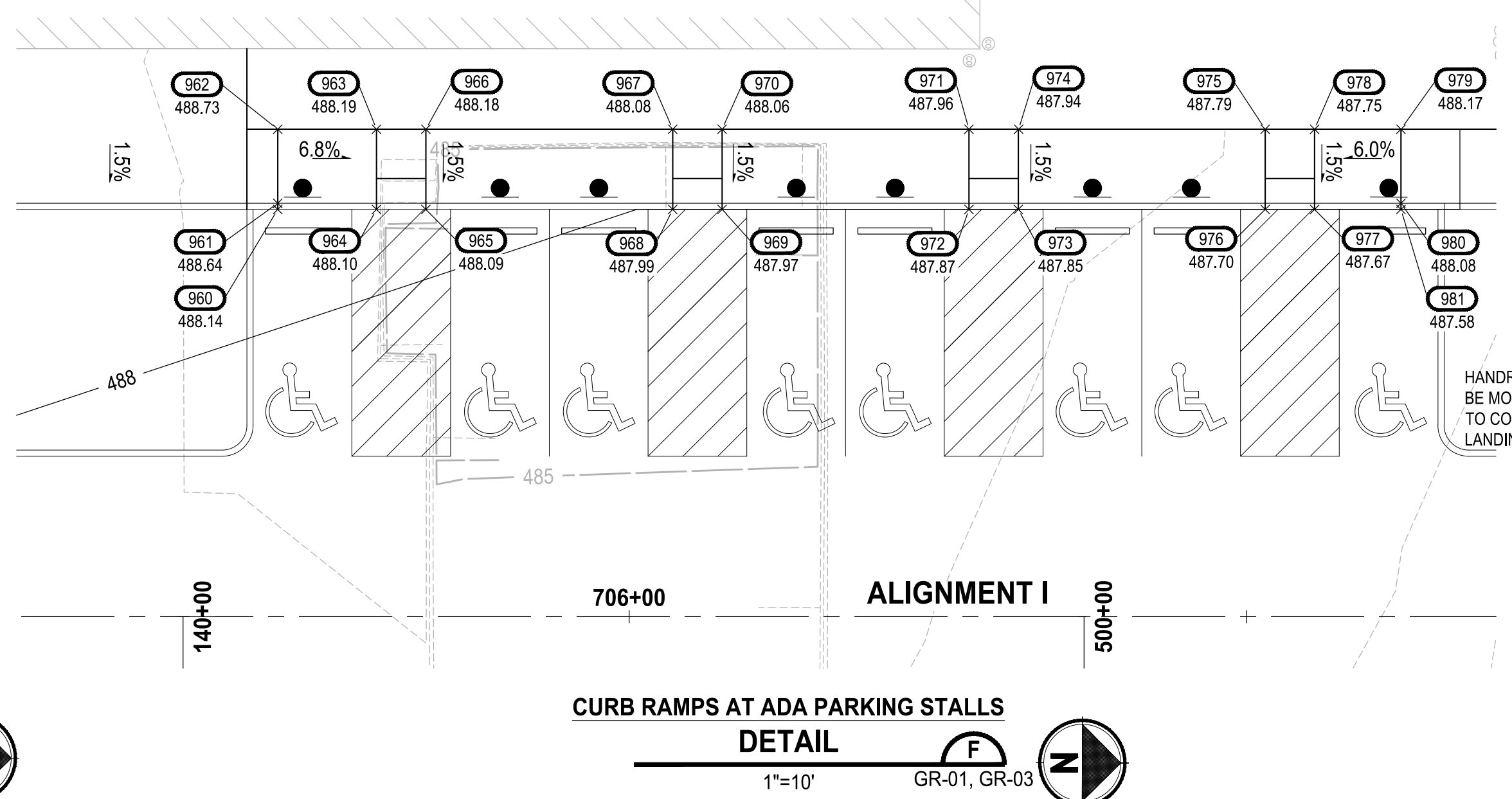
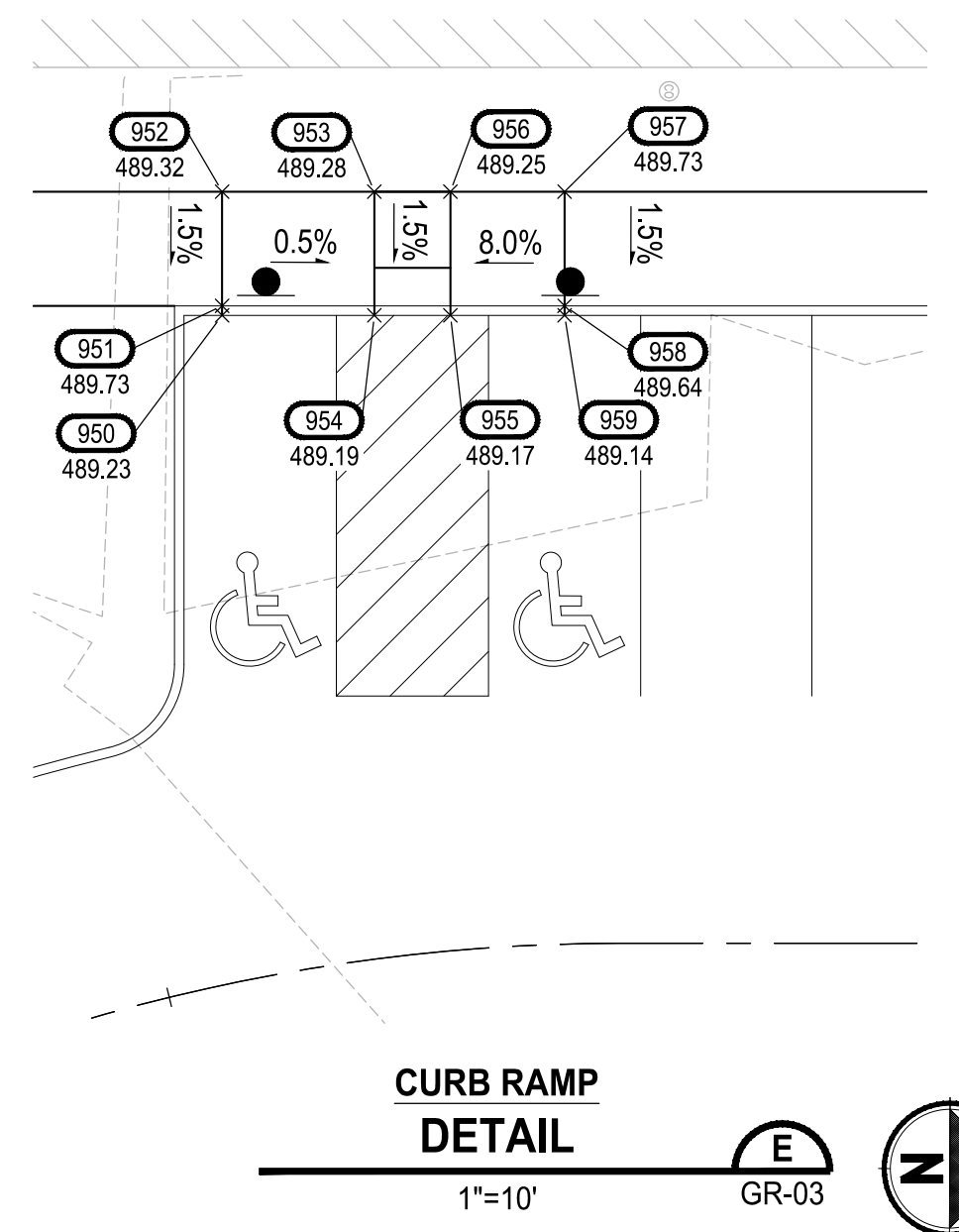
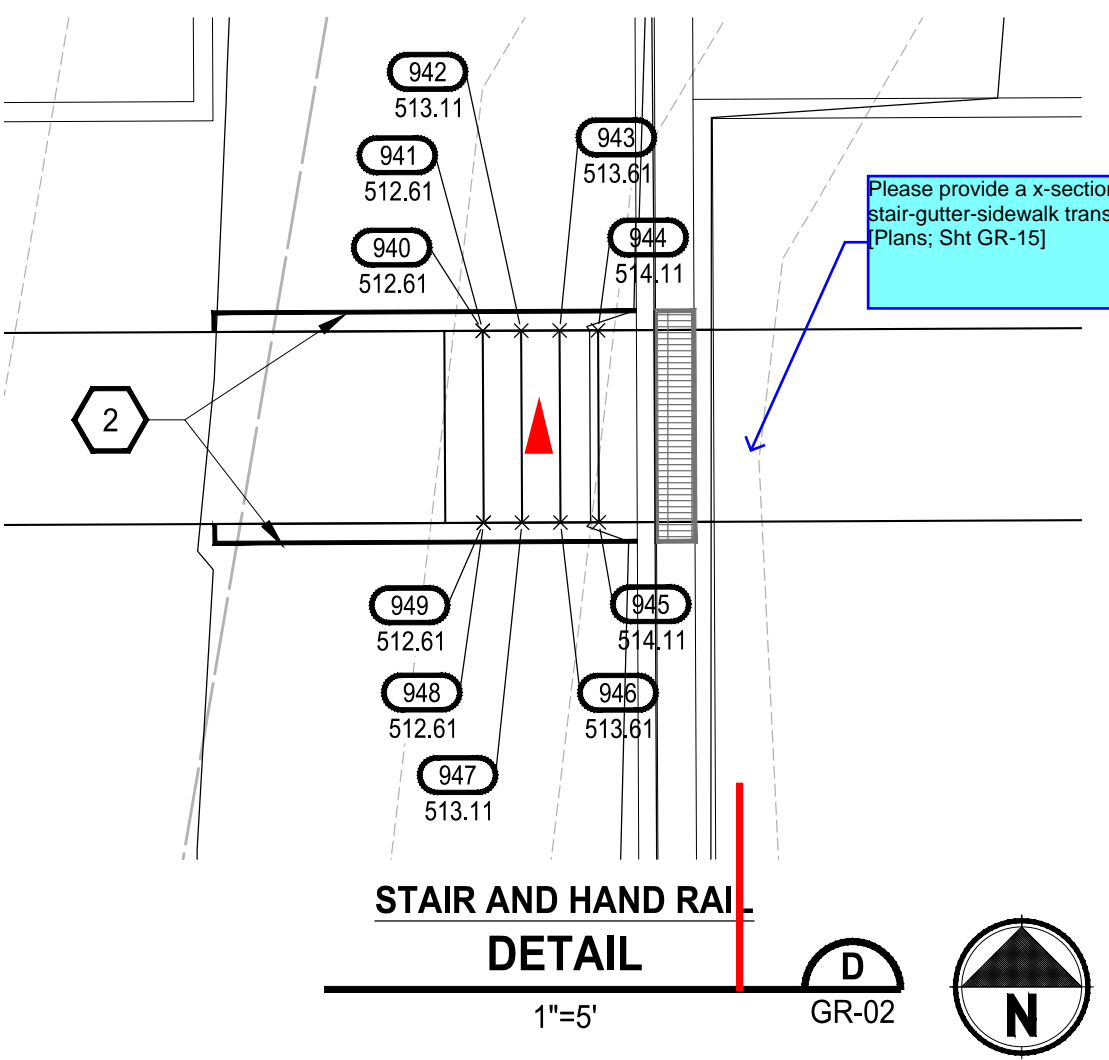
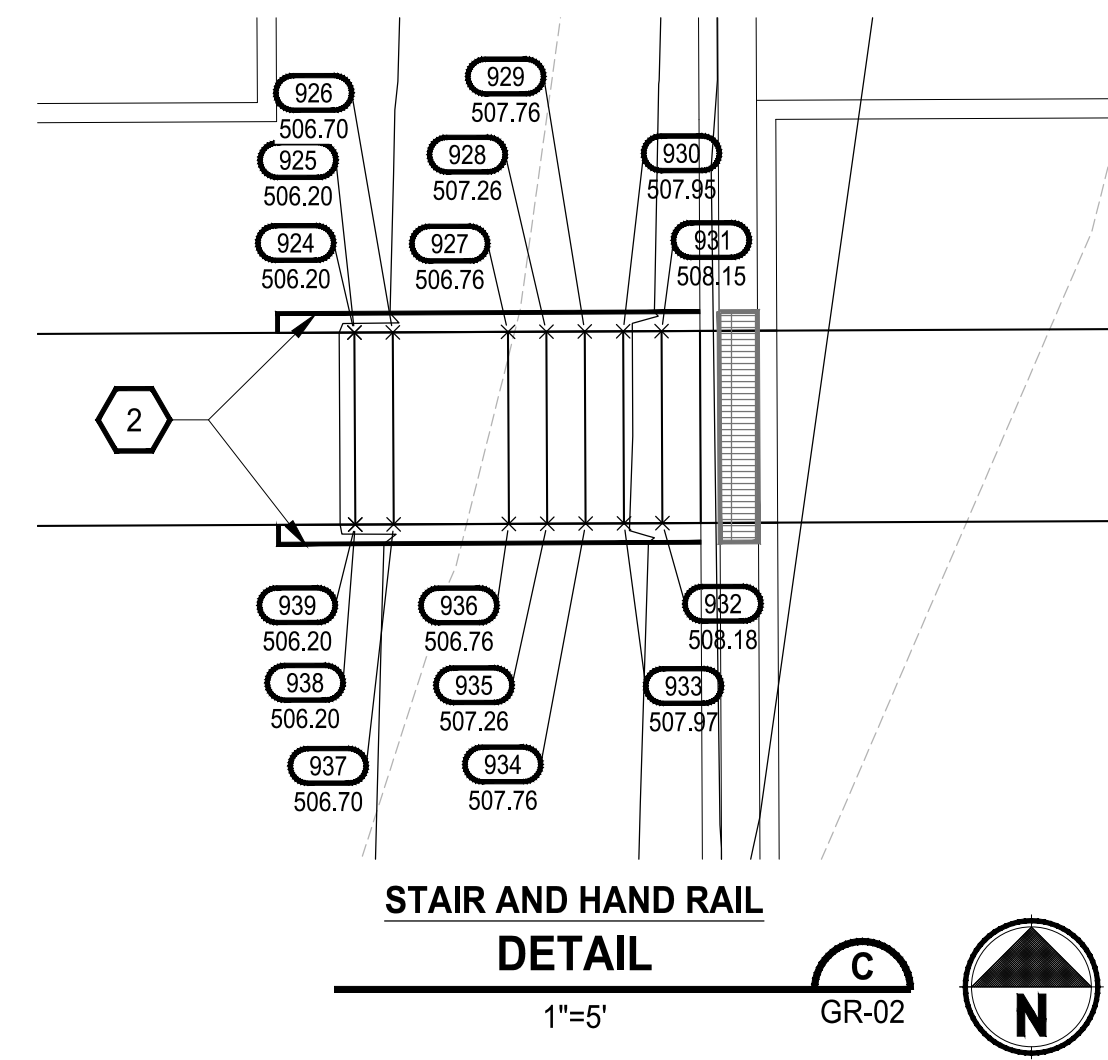
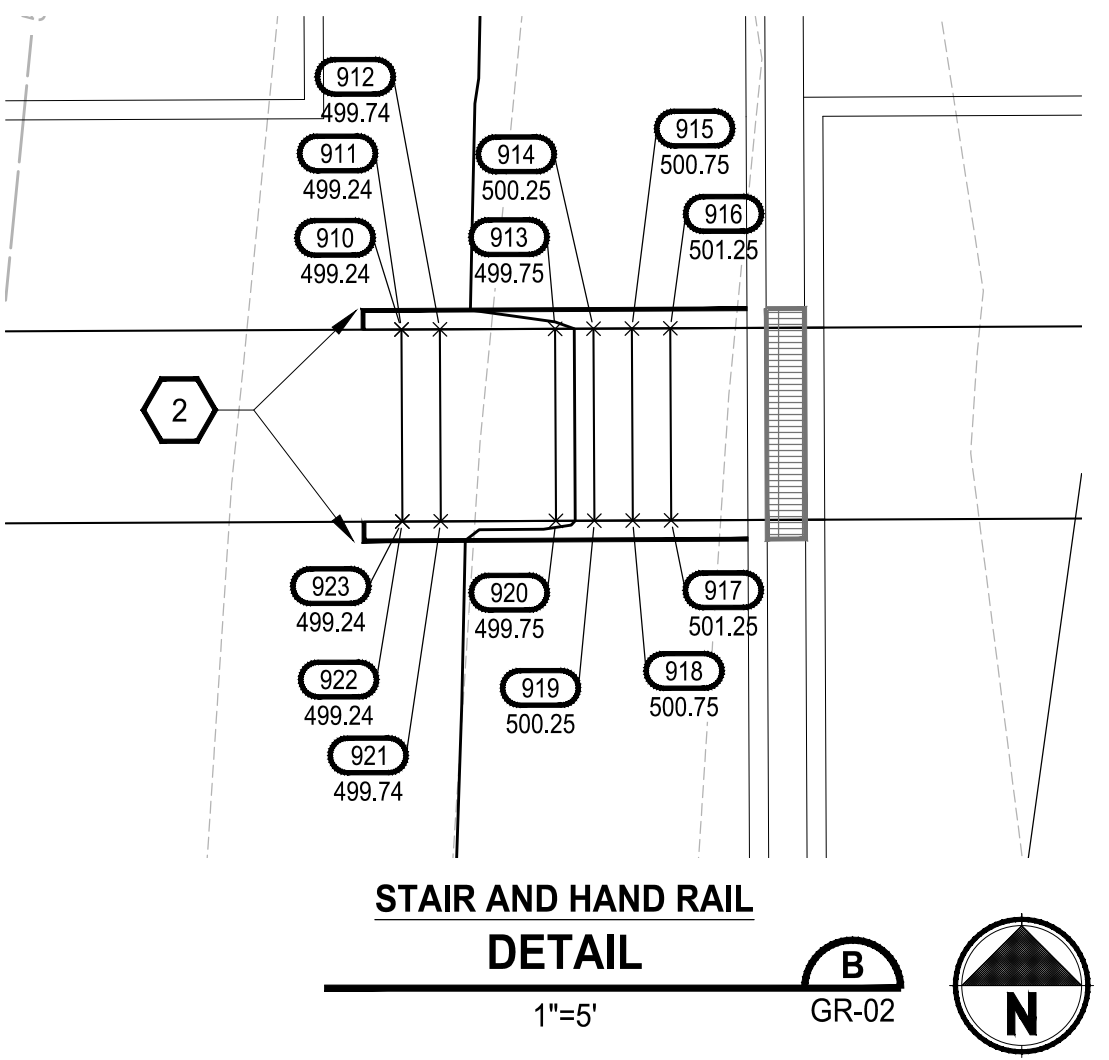
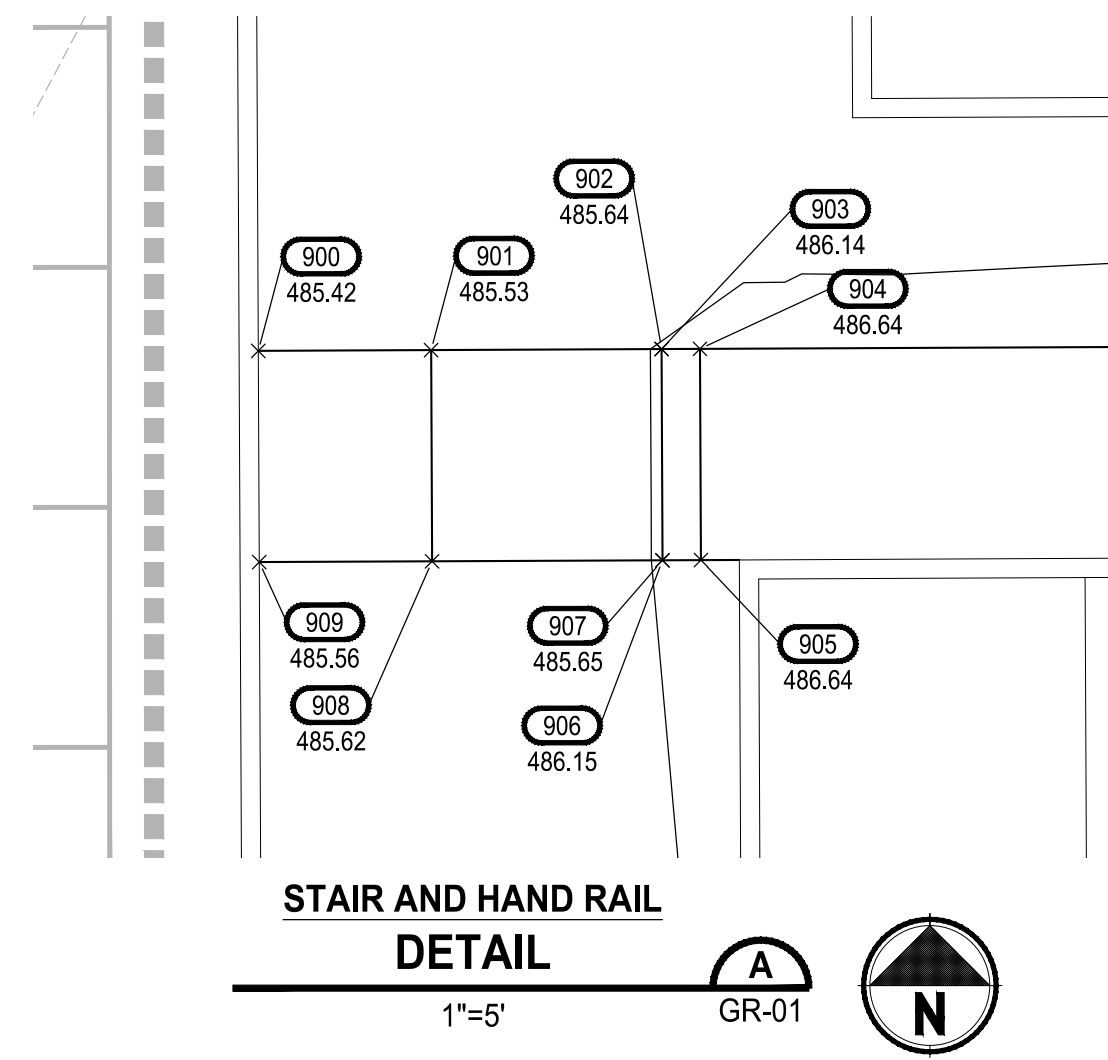
POINT TABLE FOR GR-15				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
900	485.42	671009.04	1197831.31	TBC, ES
901	485.53	671009.06	1197835.81	ES
902	485.64	671009.09	1197841.81	BS
903	486.14	671009.09	1197841.81	TS
904	486.64	671009.09	1197842.81	TS
905	486.64	671003.59	1197842.83	TS
906	486.15	671003.59	1197841.83	TS
907	485.65	671003.59	1197841.83	BS
908	485.62	671003.56	1197835.83	ES
909	485.56	671003.54	1197831.33	TBC, ES
910	499.24	671010.15	1198077.31	BS
911	499.24	671010.15	1198077.31	TS
912	499.74	671010.15	1198078.31	TS
913	499.75	671010.17	1198081.31	TS
914	500.25	671010.17	1198082.31	TS
915	500.75	671010.18	1198083.31	TS
916	501.25	671010.18	1198084.31	TS
917	501.25	671005.18	1198084.33	TS
918	500.75	671005.18	1198083.33	TS
919	500.25	671005.17	1198082.33	TS
920	499.75	671005.17	1198081.33	TS
921	499.74	671005.15	1198078.33	TS
922	499.24	671005.15	1198077.33	TS
923	499.24	671005.15	1198077.33	BS
924	506.20	671010.48	1198150.31	BS
925	506.20	671010.48	1198150.31	TS
926	506.70	671010.48	1198151.31	TS
927	506.76	671010.50	1198154.31	TS
928	507.26	671010.50	1198155.31	TS
929	507.76	671010.51	1198156.31	TS
930	507.95	671010.51	1198157.31	TS
931	508.15	671010.51	1198158.31	TS
932	508.18	671005.52	1198158.33	TS
933	507.97	671005.51	1198157.33	TS
934	507.76	671005.51	1198156.33	TS
935	507.26	671005.50	1198155.33	TS
936	506.76	671005.50	1198154.33	TS
937	506.70	671005.48	1198151.33	TS
938	506.20	671005.48	1198150.33	TS
939	506.20	671005.48	1198150.33	BS
940	512.61	671010.83	1198228.31	BS
941	512.61	671010.83	1198228.31	TS
942	513.11	671010.83	1198229.31	TS
943	513.61	671010.84	1198230.31	TS
944	514.11	671010.84	1198231.31	TS
945	514.11	671005.84	1198231.33	TS
946	513.61	671005.84	1198230.33	TS
947	513.11	671005.83	1198229.33	TS
948	512.61	671005.83	1198228.33	TS
949	512.61	671005.83	1198228.33	BS
950	489.23	670613.98	1197786.59	BFC
951	489.73	670613.98	1197786.09	TBC

POINT TABLE FOR GR-15				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
952	489.32	670613.96	1197780.09	BW, TR
953	489.28	670621.96	1197780.05	BW, BR
954	489.19	670621.98	1197786.55	BFC
955	489.17	670625.98	1197786.54	BFC
956	489.25	670625.96	1197780.04	BW, BR
957	489.73	670631.96	1197780.01	BW, TR
958	489.64	670631.98	1197786.01	TBC
959	489.14	670631.98	1197786.51	BFC
960	488.14	670832.51	1197785.81	BFC
961	488.64	670832.51	1197785.11	TBC
962	488.73	670832.48	1197779.11	BW, TR
963	488.19	670840.48	1197779.07	BW, BR
964	488.10	670840.51	1197785.57	BFC
965	488.09	670844.51	1197785.55	BFC
966	488.18	670844.48	1197779.05	BW
967	488.08	670864.48	1197778.96	BW
968	487.99	670864.51	1197785.46	BFC
969	487.97	670868.51	1197785.44	BFC
970	488.06	670868.48	1197778.94	BW
971	487.96	670888.48	1197778.85	BW
972	487.87	670888.51	1197785.35	BFC
973	487.85	670892.51	1197785.34	BFC
974	487.94	670892.51	1197778.84	BW
975	487.79	670912.48	1197778.75	BW
976	487.70	670912.51	1197785.25	BFC
977	487.67	670916.51	1197785.23	BFC
978	487.75	670916.48	1197778.73	BW, BR
979	488.17	670923.48	1197778.70	BW, TR
980	488.08	670923.51	1197784.70	TBC
981	487.58	670923.51	1197785.20	BFC

ABBREVIATION TABLE

AP	ANGLE POINT
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BACK OF WALK
CC	CURB CUT
CVF	CONTRACTOR TO VERIFY IN FIELD
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ES	EDGE OF SIDEWALK
FL	FLOW LINE
MC	MIDDLE OF CURVE
ME	MATCH EXISTING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALL
TR	TOP OF RAMP
TS	TOP OF STAIR

NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**



REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q3-PS0731200C-GR
 JOB No. 217-7312-004
 DATE MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

GRADING PLAN STAIR DETAILS

DRAWING NO.
44 OF 58
GR-15

LAYOUT: GR-15 PATH: U:\PSD\Projects\clients\7312-Berkeley\217-7312-004-SHB&TParkingExpansion\985\CA\DD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:45:45 AM

LAYOUT: GR-16 PATH: U:\PSD\Projects\Chertea\7312-004-SHB&CParkingExpansion\985\CA\DWG PLOTTED BY: petritrus DATE: Friday, March 4, 2022 10:45:52 AM

POINT TABLE FOR GR-01

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	486.47	671178.17	1197859.55	BFC, PC
2	486.51	671175.68	1197862.06	BFC, PT
3	486.30	671161.68	1197862.12	BFC, AP
4	489.45	671162.01	1197934.12	BFC, AP
5	489.66	671176.01	1197934.06	BFC, PC
6	489.84	671178.52	1197936.55	BFC, PT
7	490.56	671178.57	1197948.55	BFC, PC
8	490.68	671176.08	1197951.06	BFC, PT
9	490.47	671162.08	1197951.12	BFC, AP
10	494.79	671162.41	1198023.12	BFC, AP
11	494.99	671175.98	1198023.06	BFC, PC
12	495.23	671178.35	1198026.38	BFC, PCC
13	495.47	671174.72	1198031.23	BFC, MC
14	495.56	671168.95	1198033.09	BFC, PT
15	495.50	671156.18	1198033.15	FL, CC
16	495.57	671139.95	1198033.22	BFC, PC
17	495.33	671134.17	1198031.41	BFC, MC
18	494.58	671130.50	1198026.60	BFC, PCC
19	494.01	671132.84	1198023.25	BFC, PT
20	493.76	671149.41	1198023.18	BFC, AP
21	489.03	671149.08	1197951.18	BFC, AP
22	489.34	671132.08	1197951.26	BFC, PC
23	489.23	671129.57	1197948.77	BFC, PT
24	488.44	671129.51	1197935.77	BFC, PC
25	488.24	671132.00	1197933.26	BFC, PT
26	487.93	671149.00	1197933.18	BFC, AP
27	483.37	671148.60	1197843.18	BFC, AP
28	483.62	671131.60	1197843.26	BFC, PC
29	483.70	671129.09	1197840.77	BFC, PT
30	483.70	671129.08	1197840.27	BFC, PC
31	483.84	671131.98	1197833.18	BFC, MC
32	484.78	671139.04	1197830.22	BFC, PT
33	484.82	671146.04	1197830.19	FL, CC
34	484.86	671153.04	1197830.16	BFC, PC
35	485.70	671170.75	1197837.40	BFC, MC
36	486.35	671178.15	1197855.05	BFC, PT
37	483.66	671105.10	1197843.88	BFC, PC
38	483.61	671102.61	1197846.39	BFC, PT
39	483.40	671088.61	1197846.45	BFC, AP
40	488.07	671089.01	1197934.45	BFC, AP
41	488.30	671103.01	1197934.39	BFC, PC
42	488.50	671105.52	1197936.88	BFC, PT
43	489.23	671105.57	1197948.88	BFC, PC
44	489.34	671103.08	1197951.39	BFC, PT
45	489.08	671089.08	1197951.45	BFC, AP
46	493.81	671089.41	1198023.45	BFC, AP
47	494.01	671102.98	1198023.39	BFC, PC
48	494.51	671105.35	1198026.71	BFC, PCC
49	495.15	671101.72	1198031.56	BFC, MC
50	495.79	671095.95	1198033.42	BFC, PT
51	495.86	671082.93	1198033.48	FL, CC
52	495.94	671066.95	1198033.55	BFC, PC
53	495.34	671061.17	1198031.74	BFC, MC
54	494.74	671057.50	1198026.93	BFC, PCC
55	494.39	671059.84	1198023.58	BFC, PT
56	494.14	671076.41	1198023.51	BFC, AP
57	489.28	671076.08	1197951.51	BFC, AP
58	489.59	671059.09	1197951.59	BFC, PC
59	489.48	671056.57	1197949.10	BFC, PT
60	488.65	671056.52	1197936.10	BFC, PC
61	488.45	671059.00	1197933.59	BFC, PT

POINT TABLE FOR GR-01

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
62	488.14	671076.00	1197933.51	BFC, AP
63	483.42	671075.60	1197843.51	BFC, AP
64	483.68	671058.60	1197843.59	BFC, PC
65	483.75	671056.09	1197841.10	BFC, PT
66	483.76	671056.09	1197840.60	BFC, PC
67	483.86	671058.98	1197833.51	BFC, MC
68	484.28	671066.04	1197830.55	BFC, PT
69	484.21	671081.46	1197830.48	FL, CC
70	484.26	671095.04	1197830.42	BFC, PC
71	483.83	671102.12	1197833.32	BFC, MC
72	483.70	671105.08	1197840.38	BFC, PT
73	484.07	671032.10	1197844.21	BFC, PC
74	484.10	671029.11	1197847.22	BFC, PT
75	484.30	671015.62	1197847.28	BFC, AP
76	489.17	671016.01	1197934.78	BFC, AP
77	488.96	671029.51	1197934.72	BFC, PC
78	489.11	671032.52	1197937.70	BFC, PT
79	489.84	671032.57	1197949.20	BFC, PC
80	490.07	671029.59	1197952.22	BFC, PT
81	490.27	671016.09	1197952.28	BFC, AP
82	494.99	671016.41	1198023.28	BFC, AP
83	494.79	671030.26	1198023.22	BFC, PC
84	495.05	671032.68	1198026.37	BFC, PCC
85	495.69	671029.12	1198031.68	BFC, MC
86	496.17	671023.07	1198033.75	BFC, PT
87	496.32	670993.83	1198033.88	BFC, PC
88	496.47	670987.77	1198031.87	BFC, MC
89	496.05	670984.16	1198026.59	BFC, PCC
90	495.87	670986.56	1198023.41	BFC, PT
91	496.13	671003.91	1198023.33	BFC, AP
92	491.80	671003.59	1197952.33	BFC, AP
93	491.55	670986.59	1197952.41	BFC, PC
94	491.32	670983.57	1197949.42	BFC, PT
95	490.57	670983.52	1197936.93	BFC, PC
96	490.44	670986.50	1197933.91	BFC, PT
97	490.69	671003.50	1197933.84	BFC, AP
98	486.15	671003.10	1197844.34	BFC, AP
99	485.89	670985.60	1197844.41	BFC, PC
100	485.88	670983.09	1197841.93	BFC, PT
101	485.90	670983.09	1197840.93	BFC, PC
102	485.87	670985.98	1197833.84	BFC, MC
103	485.82	670993.04	1197830.88	BFC, PT
104	485.11	671021.54	1197830.75	BFC, PC
105	484.27	671028.98	1197833.80	BFC, MC
106	484.11	671032.09	1197841.21	BFC, PT
107	485.49	670959.10	1197844.53	BFC, PC
108	485.44	670956.61	1197847.05	BFC, PT
109	485.23	670942.61	1197847.11	BFC, AP
110	489.84	670943.01	1197935.11	BFC, AP
111	490.05	670957.01	1197935.04	BFC, PC
112	490.24	670959.52	1197937.53	BFC, PT
113	490.96	670959.57	1197949.53	BFC, PC
114	491.07	670957.09	1197952.04	BFC, PT
115	490.86	670943.09	1197952.11	BFC, AP
116	495.25	670943.41	1198024.11	BFC, AP
117	495.45	670956.98	1198024.05	BFC, PC
118	495.72	670959.35	1198027.37	BFC, PCC
119	496.00	670955.72	1198032.22	BFC, MC
120	496.55	670949.96	1198034.08	BFC, PT
121	496.62	670936.94	1198034.14	FL, CC
122	496.70	670920.96	1198034.21	BFC, PC

POINT TABLE FOR GR-01

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
123	496.47	670915.17	1198032.40	BFC, MC
124	496.20	670911.50	1198027.58	BFC, PCC
125	495.95	670913.84	1198024.24	BFC, PT
126	495.70	670930.41	1198024.17	BFC, AP
127	491.56	670930.09	1197952.17	BFC, AP
128	491.82	670913.09	1197952.24	BFC, PC
129	491.71	670910.58	1197949.75	BFC, PT
130	490.98	670910.52	1197936.75	BFC, PC
131	490.80	670913.01	1197934.24	BFC, PT
132	490.54	670930.01	1197934.17	BFC, AP
133	486.46	670929.60	1197844.17	BFC, AP
134	486.72	670912.60	1197844.24	BFC, PC
135	486.79	670910.09	1197841.75	BFC, PT
136	486.80	670910.09	1197841.26	BFC, PC
137	486.96	670912.98	1197834.17	BFC, MC
138	487.45	670920.04	1197831.21	BFC, PT
139	487.05	670936.16	1197831.14	FL, CC
140	486.92	670949.04	1197831.08	BFC, PC
141	485.78	670956.13	1197833.98	BFC, MC
142	485.54	670959.09	1197841.03	BFC, PT
143	487.80	670863.16	1197831.47	FL, CC
144	487.74	670876.04	1197831.41	BFC, PC
145	487.18	670883.13	1197834.31	BFC, MC
146	486.80	670886.09	1197841.36	BFC, PT
147	486.75	670886.10	1197844.86	BFC, PC
148	486.68	670883.61	1197847.37	BFC, PT
149	486.44	670869.61	1197847.44	BFC, AP
150	490.65	670870.01	1197935.44	BFC, AP
151	490.86	670884.01	1197935.37	BFC, PC
152	491.03	670886.52	1197937.86	BFC, PT
153	491.71	670886.58	1197949.86	BFC, PC
154	491.82	670884.09	1197952.37	BFC, PT
155	491.61	670870.09	1197952.44	BFC, AP
156	495.74	670870.41	1198024.44	BFC, AP
157	495.95	670883.98	1198024.37	BFC, PC
158	496.20	670886.35	1198027.70	BFC, PCC
159	496.52	670882.72	1198032.54	BFC, MC
160	496.85	670876.96	1198034.41	BFC, PT
161	496.97	670863.94	1198034.46	FL, CC
162	496.28	670857.41	1198024.49	BFC, AP
163	492.17	670857.09	1197952.49	BFC, AP
164	491.14	670857.01	1197934.49	BFC, AP
165	486.83	670856.60	1197844.50	BFC, AP
166	487.53	670926.51	119785.18	BFC, AP
167	487.27	670926.59	1197802.68	BFC, PC
168	487.19	670929.10	1197805.17	BFC, PT
169	486.96	670942.10	1197805.12	BFC, PC
170	486.94	670944.59	1197802.60	BFC, PT
171	487.20	670944.51	1197785.10	BFC, AP
172	485.64	671007.51	1197784.82	BFC, AP
173	486.22	671007.96	1197778.32	BW
174	485.38	671007.59	1197802.32	BFC, PC
175	485.28	671010.10	1197804.81	BFC, PT
176	485.73	671176.68	1197804.05	BFC, PC
177	484.87	671187.23	1197801.67	BFC, MC
178	484.07	671195.78	1197795.05	BFC, PT
179	484.45	671213.83	1197773.36	BFC, ME
180	485.16	671228.93	1197895.85	BFC, PC, ME
181	488.56	671211.55	1197903.39	BFC, MC
182	489.34	671204.45	1197920.96	BFC, PT



Know what's below.
Call before you dig.

APPROVED
BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT
DATE: _____
NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field conditions may dictate changes to these plans as determined by the City Engineer.

ABBREVIATION TABLE	
AP	ANGLE POINT
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BACK OF WALK
CC	CURB CUT
CVF	CONTRACTOR TO VERIFY IN FIELD
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ES	EDGE OF SIDEWALK
FL	FLOW LINE
MC	MIDDLE OF CURVE
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TBC	TOP BACK OF CURB
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TS	TOP OF STAIR

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
 Field conditions may dictate changes to these plans as determined by the City Engineer.



POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
200	497.96	671179.11	1198067.05	BFC, PT
201	500.23	671179.24	1198096.05	BFC, PC
202	500.79	671177.43	1198101.83	BFC, MC
203	501.28	671172.61	1198105.50	BFC, PCC
204	501.09	671169.27	1198103.16	BFC, PT
205	500.08	671169.19	1198086.10	BFC, AP
206	498.88	671168.19	1198084.60	FL, CC
207	498.88	671151.45	1198084.67	FL, CC
208	498.88	671101.68	1198084.87	FL, CC
209	500.24	671097.19	1198086.41	BFC, AP
210	501.27	671097.27	1198103.16	Verify-top of planter EI 499.19 and top of splash pad EI 499.52 (Plans: Sht GR-17)
211	501.45	671094.78	1198106.48	BFC, PC
212	501.56	671081.78	1198106.48	BFC, PC
213	501.43	671079.27	1198104.00	BFC, PT
214	500.40	671079.19	1198086.50	BFC, AP
215	498.88	671077.20	1198085.01	FL, CC
216	500.97	671016.20	1198087.78	BFC, AP
217	501.96	671016.27	1198104.28	BFC, PC
218	502.14	671013.78	1198106.79	BFC, PT
219	502.32	670991.78	1198106.89	BFC, PC
220	502.19	670989.27	1198104.40	BFC, PT
221	501.20	670989.20	1198087.90	BFC, AP
222	502.01	670926.19	1198087.18	BFC, AP
223	502.73	670926.27	1198104.68	BFC, PC
224	502.90	670923.78	1198107.20	BFC, PT
225	502.92	670921.28	1198107.21	BFC, PC
226	502.29	670914.20	1198104.31	BFC, MC
227	501.65	670911.24	1198097.25	BFC, PT
228	499.16	670911.11	1198068.25	BFC, PC
229	499.03	670914.01	1198061.17	BFC, MC
230	498.65	670921.06	1198058.21	BFC, PT
231	498.13	670923.56	1198058.20	BFC, PC
232	498.18	670926.07	1198060.68	BFC, PT
233	499.05	670926.14	1198075.18	BFC, AP
234	498.80	670991.14	1198074.89	BFC, AP
235	497.93	670991.07	1198060.39	BFC, PC
236	497.76	670993.56	1198057.88	BFC, PT
237	497.66	671013.56	1198057.79	BFC, PC
238	497.80	671016.07	1198060.28	BFC, PT
239	498.67	671016.14	1198074.78	BFC, AP
240	498.34	671080.14	1198074.49	BFC, AP
241	497.47	671080.07	1198059.99	BFC, PC
242	497.30	671082.56	1198057.48	BFC, PT
243	497.24	671094.56	1198057.43	BFC, PC
244	497.38	671097.07	1198059.92	BFC, PT
245	498.25	671097.14	1198074.42	BFC, AP
246	498.02	671169.14	1198074.09	BFC, AP
247	497.18	671169.07	1198060.02	BFC, PC
248	497.08	671172.40	1198057.65	BFC, PCC
249	497.47	671177.24	1198061.28	BFC, MC
250	504.15	671179.43	1198140.05	BFC, PT
251	506.82	671179.57	1198169.05	BFC, PC
252	507.44	671177.76	1198174.83	BFC, MC
253	508.00	671172.94	1198178.50	BFC, PCC
254	507.81	671169.60	1198176.16	BFC, PT
255	506.81	671169.53	1198159.10	BFC, AP
256	505.67	671168.52	1198157.59	FL, CC
257	505.67	671151.91	1198157.67	FL, CC
258	505.67	671111.01	1198157.87	FL, CC
259	507.09	671097.52	1198159.41	BFC, AP

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
260	508.12	671097.60	1198176.91	BFC, PC
261	508.29	671095.11	1198179.43	BFC, PT
262	508.40	671082.11	1198179.48	BFC, PC
263	508.28	671079.60	1198177.00	BFC, PT
264	507.25	671079.52	1198159.50	BFC, AP
265	505.67	671077.53	1198158.00	FL, CC
266	507.84	671046.53	1198160.78	BFC, AP
267	508.83	671016.60	1198177.28	Verify-top of planter EI 505.98 and top of splash pad EI 506.31 (Plans: Sht GR-17)
268	509.00	671014.11	1198179.79	BFC, PC
269	509.19	670992.11	1198179.89	BFC, PC
270	509.06	670989.60	1198177.40	BFC, PT
271	508.07	670989.53	1198160.90	BFC, AP
272	508.58	670926.52	1198160.18	BFC, AP
273	509.61	670926.60	1198177.68	BFC, PC
274	509.79	670924.11	1198180.19	BFC, PT
275	509.81	670921.61	1198180.21	BFC, PC
276	509.17	670914.53	1198177.31	BFC, MC
277	508.54	670911.57	1198170.25	BFC, PT
278	505.80	670911.44	1198141.25	BFC, PC
279	505.08	670914.33	1198134.17	BFC, MC
280	504.36	670921.39	1198131.21	BFC, PT
281	504.34	670923.89	1198131.20	BFC, PC
282	504.47	670926.40	1198133.68	BFC, PT
283	505.34	670926.47	1198148.18	BFC, AP
284	504.79	670991.47	1198147.89	BFC, AP
285	503.92	670991.40	1198133.39	BFC, PC
286	503.75	670993.89	1198130.88	BFC, PT
287	503.58	671013.89	1198130.79	BFC, PC
288	503.70	671016.40	1198133.28	BFC, PT
289	504.57	671016.47	1198147.78	BFC, AP
290	504.03	671080.47	1198147.49	BFC, AP
291	503.16	671080.40	1198132.99	BFC, PC
292	502.99	671082.89	1198130.48	BFC, PT
293	502.89	671094.89	1198130.43	BFC, PC
294	503.01	671097.40	1198132.91	BFC, PT
295	503.88	671097.47	1198147.41	BFC, AP
296	503.72	671169.47	1198147.09	BFC, AP
297	502.88	671169.40	1198133.02	BFC, PC
298	502.79	671172.73	1198130.65	BFC, PCC
299	503.61	671177.57	1198134.28	BFC, MC
300	510.88	671179.76	1198213.04	BFC, PT
301	513.55	671179.89	1198242.04	BFC, PC
302	514.14	671178.08	1198247.83	BFC, MC
303	514.53	671173.27	1198251.50	BFC, PCC
304	514.32	671169.93	1198249.16	BFC, PT
305	513.33	671169.86	1198232.10	BFC, AP
306	511.98	671168.86	1198230.59	FL, CC
307	511.98	671111.35	1198230.87	FL, CC
308	511.98	671111.35	1198230.87	FL, CC
309	513.06	671097.93	1198249.91	BFC, PC
310	514.11	671097.93	1198249.91	BFC, PC
311	514.27	671097.93	1198249.91	BFC, PT
312	514.34	671082.44	1198252.48	BFC, PC
313	514.20	671079.93	1198249.99	BFC, PT
314	513.17	671079.85	1198232.49	BFC, AP
315	511.98	671077.86	1198231.00	FL, CC
316	513.52	671016.85	1198233.78	BFC, AP
317	514.51	671016.93	1198250.28	BFC, PC
318	514.68	671014.44	1198252.79	BFC, PT
319	514.79	670992.44	1198252.89	BFC, PC

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
320	514.65	670989.93	1198250.40	BFC, PT
321	513.66	670989.85	1198233.90	BFC, AP
322	513.93	670926.85	1198233.18	BFC, AP
323	514.96	670926.93	1198250.68	BFC, PC
324	515.13	670924.44	1198253.19	BFC, PT
325	515.14	670921.94	1198253.21	BFC, PC
326	514.85	670914.86	1198250.31	BFC, MC
327	514.55	670911.90	1198243.25	BFC, PT
328	512.45	670911.77	1198214.25	BFC, PC
329	511.85	670914.66	1198207.17	BFC, MC
330	511.25	670921.72	1198204.21	BFC, PT
331	511.23	670924.22	1198204.19	BFC, PC
332	511.35	670926.73	1198206.68	BFC, PT
333	512.22	670926.80	1198221.18	BFC, AP
334	511.65	670991.80	1198220.85	BFC, AP
335	510.78	670991.73	1198206.35	BFC, PC
336	510.61	670994.22	1198203.84	BFC, PT
337	510.44	671014.22	1198203.79	BFC, PC
338	510.61	671016.73	1198206.28	BFC, PT
339	511.48	671016.80	1198220.78	BFC, AP
340	510.88	671080.73	1198220.49	BFC, AP
341	510.01	671080.73	1198205.99	BFC, PC
342	509.83	671083.22	1198203.48	BFC, PT
343	509.73	671095.22	1198203.43	BFC, PC
344	509.86	671097.73	1198205.91	BFC, PT
345	510.73	671097.80	1198220.41	BFC, AP
346	510.44	671169.79	1198220.09	BFC, AP
347	509.60	671169.73	1198206.02	BFC, PC
348	509.51	671173.05	1198203.65	BFC, PCC
349	510.21	671177.90	1198207.28	BFC, MC
350	521.28	671206.40	1198355.04	BFC, PC
351	521.98	671213.84	1198372.72	BFC, MC
352	522.40	671229.15	1198379.82	BFC, ME
353	523.68	671155.42	1198380.27	BFC, PC, ME
354	521.37	671173.12	1198372.90	BFC, MC
355	520.89	671180.40	1198355.16	BFC, PT
356	517.14	671180.09	1198286.04	BFC, PC
357	516.55	671178.23	1198280.28	BFC, MC
358	516.04	671173.38	1198276.65	BFC, PCC
359	516.12	671170.06	1198279.02	BFC, PT
360	516.96	671170.12	1198293.09	BFC, AP
361	516.72	671098.12	1198293.41	BFC, AP
362	515.85	671098.06	1198278.91	BFC, PC
363	515.71	671095.55	1198276.42	BFC, PT
364	515.77	671083.55	1198276.48	BFC, PC
365	515.93	671081.06	1198278.99	BFC, PT
366	516.80	671081.12	1198293.49	BFC, AP
367	517.12	671017.12	1198293.78	BFC, AP
368	516.25	671017.06	1198279.28	BFC, PC
369	516.12	671014.55	1198276.79	BFC, PT
370	516.18	671002.55	1198276.84	BFC, PC
371	516.34	671000.06	1198279.35	BFC, PT
372	517.21	671000.12	1198293.85	BFC, AP
373	517.65	670912.13	1198294.25	BFC, AP
374	516.78	670912.13	1198279.75	BFC, PC
375	516.67	670909.55	1198277.26	BFC, PT
376	516.67	670890.55	1198277.35	BFC, PC
377	516.78	670888.06	1198279.86	BFC, PT
378	517.65	670888.13	1198294.36	BFC, AP
379	511.96	670872.80	1198221.43	BFC, AP

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
380	511.09	670872.73	1198206.93	BFC, PC
381	511.00	670875.22	1198204.42	BFC, PT
382	511.06	670877.72	1198204.40	BFC, PC
383	511.75	670884.81	1198207.30	BFC, MC
384	512.45	670887.77	1198214.36	BFC, PT
385	514.55	670887.90	1198243.36	BFC, PC
386	514.93	670885.00	1198250.44	BFC, MC
387	515.24	670877.94	1198253.40	BFC, PT
388	515.25	670875.44	1198253.41	BFC, PC
389	515.11	670872.93	1198250.93	BFC, PT
390	514.08	670872.85	1198233.43	BFC, AP
39				

LAYOUT: GR-18 P:\TH: U:\PSD\Projects\Clients\7312-004-SHB&T\ParkingExpansion\995\scs\CADD\DWG PLOTED BY: petrus DATE: Friday, March 4, 2022 10:46:02 AM

POINT TABLE FOR GR-03

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
500	497.12	670847.96	1198034.54	BFC, PC
501	496.99	670842.17	1198032.73	BFC, MC
502	496.76	670838.50	1198027.91	BFC, PCC
503	496.53	670840.84	1198024.57	BFC, PT
504	492.42	670840.09	1197952.57	BFC, PC
505	492.32	670837.58	1197950.08	BFC, PT
506	491.57	670837.52	1197937.08	BFC, PC
507	491.39	670840.01	1197934.57	BFC, PT
508	487.09	670839.60	1197844.57	BFC, PC
509	487.16	670837.09	1197842.08	BFC, PT
510	487.16	670837.09	1197841.58	BFC, PC
511	487.30	670839.98	1197834.50	BFC, MC
512	487.88	670847.04	1197831.54	BFC, PT
513	487.12	670813.10	1197845.19	BFC, PC
514	487.06	670810.61	1197847.70	BFC, PT
515	486.85	670796.62	1197847.77	BFC, AP
516	491.21	670797.01	1197935.76	BFC, AP
517	491.44	670811.01	1197935.70	BFC, PC
518	491.63	670813.52	1197938.19	BFC, PT
519	492.32	670813.58	1197950.19	BFC, PC
520	492.41	670811.09	1197952.70	BFC, PT
521	492.16	670797.09	1197952.76	BFC, AP
522	496.33	670797.41	1198024.76	BFC, AP
523	496.53	670810.98	1198024.70	BFC, PC
524	496.76	670813.35	1198028.03	BFC, PCC
525	497.31	670809.72	1198032.87	BFC, MC
526	497.55	670803.96	1198034.73	BFC, PT
527	497.67	670790.94	1198034.79	FL, CC
528	497.82	670774.96	1198034.86	BFC, PC
529	497.88	670769.18	1198033.06	BFC, MC
530	497.45	670765.50	1198028.24	BFC, PCC
531	497.22	670767.84	1198024.90	BFC, PT
532	496.97	670784.41	1198024.82	BFC, AP
533	492.72	670784.09	1197952.82	BFC, AP
534	492.97	670767.09	1197952.90	BFC, PC
535	492.86	670764.58	1197950.41	BFC, PT
536	492.09	670764.52	1197937.41	BFC, PC
537	491.91	670767.01	1197934.90	BFC, PT
538	491.65	670784.01	1197934.82	BFC, AP
539	487.19	670783.60	1197844.82	BFC, AP
540	487.45	670766.60	1197844.90	BFC, PC
541	487.52	670764.09	1197842.41	BFC, PT
542	487.53	670764.09	1197841.91	BFC, PC
543	487.64	670766.99	1197834.83	BFC, MC
544	488.25	670774.04	1197831.87	BFC, PT
545	487.89	670790.16	1197831.80	FL, CC
546	488.10	670803.04	1197831.74	BFC, PC
547	487.32	670810.13	1197834.63	BFC, MC
548	487.16	670813.09	1197841.69	BFC, PT
549	487.48	670740.10	1197845.52	BFC, PC
550	487.43	670737.62	1197848.03	BFC, PT
551	487.22	670723.62	1197848.09	BFC, AP
552	491.76	670724.01	1197936.09	BFC, AP
553	491.97	670738.01	1197936.03	BFC, PC
554	492.15	670740.52	1197938.52	BFC, PT
555	492.86	670740.58	1197950.52	BFC, PC
556	492.97	670738.09	1197953.03	BFC, PT
557	492.76	670724.09	1197953.09	BFC, AP
558	497.01	670724.41	1198025.09	BFC, AP
559	497.22	670737.98	1198025.03	BFC, PC

POINT TABLE FOR GR-03

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
560	497.45	670740.36	1198028.35	BC, PCC
561	497.68	670736.72	1198033.20	BFC, MC
562	498.25	670730.96	1198035.06	BFC, PT
563	498.39	670716.23	1198035.13	FL, CC
564	498.56	670698.49	1198035.21	BFC, PC
565	498.34	670692.71	1198033.40	BFC, MC
566	498.11	670689.03	1198028.58	BFC, PCC
567	497.94	670691.37	1198025.24	BFC, PT
568	497.69	670707.94	1198025.17	BFC, AP
569	493.34	670707.62	1197953.17	BFC, AP
570	493.62	670690.62	1197953.24	BFC, PC
571	493.52	670688.11	1197950.75	BFC, PT
572	492.74	670688.05	1197937.75	BFC, PC
573	492.54	670690.54	1197935.24	BFC, PT
574	492.27	670707.54	1197935.17	BFC, AP
575	487.59	670707.13	1197845.17	BFC, AP
576	487.84	670690.13	1197845.24	BFC, PC
577	487.91	670687.62	1197842.76	BFC, PT
578	487.92	670687.62	1197842.26	BFC, PC
579	488.02	670690.52	1197835.17	BFC, MC
580	488.13	670697.56	1197832.21	BFC, PT
581	488.53	670717.16	1197832.12	FL, CC
582	488.47	670730.04	1197832.07	BFC, PC
583	487.64	670737.13	1197834.96	BFC, MC
584	487.53	670740.09	1197842.02	BFC, PT
585	499.70	670664.55	1198047.98	BFC, PC
586	499.59	670662.03	1198045.49	BFC, PT
587	499.85	670644.53	1198045.57	BFC, AP
588	494.45	670644.13	1197955.57	BFC, AP
589	494.19	670661.63	1197955.49	BFC, PC
590	494.00	670664.12	1197952.98	BFC, PT
591	493.22	670664.06	1197939.98	BFC, PC
592	493.11	670661.55	1197937.49	BFC, PT
593	493.37	670644.05	1197937.57	BFC, AP
594	488.54	670643.64	1197847.57	BFC, AP
595	488.28	670661.14	1197847.49	BFC, PC
596	488.24	670663.63	1197844.98	BFC, PT
597	488.27	670663.63	1197842.36	BFC, PC
598	488.37	670660.66	1197835.31	BFC, MC
599	488.35	670653.57	1197832.41	BFC, PT
600	488.44	670635.06	1197832.49	BFC, PC
601	488.65	670599.73	1197840.16	BFC, MC
602	488.86	670570.56	1197861.54	BFC, PRC
603	489.06	670532.69	1197889.30	BFC, MC
604	489.28	670486.80	1197899.28	BFC, PT
605	489.67	670486.66	1197873.27	BFC, PC
606	489.95	670522.00	1197865.60	BFC, MC
607	489.25	670551.17	1197844.22	BFC, PRC
608	489.60	670577.12	1197822.71	BFC, MC
609	488.94	670608.27	1197809.81	BFC, PRC
610	488.97	670612.07	1197804.93	BFC, PT
611	489.24	670611.98	1197786.60	BFC, AP
612	488.72	670716.98	1197786.13	BFC, AP
613	488.46	670717.06	1197803.63	BFC, PC
614	488.41	670719.57	1197806.12	BFC, PT
615	488.34	670732.57	1197806.06	BFC, PC
616	488.37	670735.06	1197803.55	BFC, PT
617	488.63	670734.98	1197786.05	BFC, AP
618	488.32	670797.98	1197785.76	BFC, AP
619	488.05	670798.06	1197803.26	BFC, PC

POINT TABLE FOR GR-03

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
620	488.00	670800.57	1197805.75	BFC, PT
621	487.87	670828.10	1197805.63	BFC, PC
622	487.89	670830.59	1197803.12	BFC, PT
623	488.15	670830.51	1197785.62	BFC, AP
624	489.54	670594.87	1197814.03	BFC
625	488.78	670594.56	1197786.18	ES
626	488.87	670594.54	1197780.18	ES
627	488.97	670594.54	1197773.65	BW
628	488.96	670576.45	1197773.73	BW
629	488.90	670576.24	1197785.78	BW
630	488.82	670576.82	1197793.77	ES
631	487.55	670484.22	1197794.19	ES, ME
632	487.68	670484.24	1197786.19	ES, ME

Verify-see comment Sheet GR-05.
(Plans, Sht GR-18)

Verify-see comment Sheet GR-05.
(Plans, Sht GR-18)



Know what's below.
Call before you dig.

APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

NOTE:
This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.

Field conditions may dictate changes to these plans as determined by the City Engineer.

ABBREVIATION TABLE	
AP	ANGLE POINT
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BACK OF WALK
CC	CURB CUT
CVF	CONTRACTOR TO VERIFY IN FIELD
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ES	EDGE OF SIDEWALK
FL	FLOW LINE
MC	MIDDLE OF CURVE
ME	MATCH EXISTING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALL
TR	TOP OF RAMP
TS	TOP OF STAIR

NOTE:
SYMBOLS NOT TO SCALE

100% REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED WZG

DRAWN RUP
CHECKED DMS
APPROVED DMS

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

FILE NAME
03-PS0731200C-GR
JOB No.
217-7312-004
DATE
MARCH 2022



Parametrix
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

GRADING POINT TABLES

DRAWING NO.
47 OF 58
GR-18

LAYOUT: GR-19 P:\Th: U:\PSD\Projects\clients\7312-Berkeley\217-7312-004-SHB&TParkingExpansion\995\scs\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 10:46:07 AM

POINT TABLE FOR GR-04				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
700	501.57	670842.20	1198087.56	FL, CC
701	501.42	670813.69	1198087.69	FL, CC
702	501.37	670800.20	1198087.75	BFC, AP
703	502.40	670800.27	1198105.29	BFC, PC
704	502.55	670797.79	1198107.80	BFC, PT
705	502.54	670784.79	1198107.82	BFC, PC
706	502.39	670782.27	1198105.33	BFC, PT
707	501.36	670782.20	1198087.83	BFC, AP
708	501.36	670780.21	1198087.84	FL, CC
709	501.73	670701.20	1198088.20	BFC, AP
710	502.76	670701.28	1198105.70	BFC, PC
711	502.92	670698.79	1198108.21	BFC, PCC
712	502.78	670691.73	1198105.31	BFC, MC
713	502.37	670688.77	1198098.25	BFC, PT
714	500.63	670688.64	1198069.25	BFC, PC
715	500.15	670691.54	1198062.17	BFC, MC
716	500.00	670698.60	1198059.21	BFC, PT
717	499.99	670699.57	1198059.20	BFC, PC
718	500.11	670702.08	1198061.69	BFC, PT
719	500.98	670702.14	1198076.19	BFC, AP
720	500.22	670782.14	1198075.83	BFC, AP
721	499.35	670782.08	1198061.33	BFC, PC
722	499.17	670784.56	1198058.82	BFC, PT
723	499.06	670796.56	1198058.77	BFC, PC
724	499.18	670799.08	1198061.26	BFC, PT
725	500.05	670799.14	1198075.76	BFC, AP
726	507.58	670842.53	1198160.56	FL, CC
727	506.88	670814.02	1198160.69	FL, CC
728	506.59	670800.53	1198161.79	BFC, AP
729	507.58	670800.60	1198178.29	BFC, PC
730	507.68	670798.11	1198180.80	BFC, PT
731	507.54	670785.11	1198180.82	BFC, PC
732	507.37	670782.60	1198178.33	BFC, PT
733	506.38	670782.53	1198161.83	BFC, AP
734	506.38	670780.54	1198160.84	FL, CC
735	506.72	670701.52	1198161.20	BFC, AP
736	507.75	670701.60	1198178.70	BFC, PC
737	507.91	670699.10	1198181.21	BFC, PCC
738	507.26	670692.05	1198178.30	BFC, MC
739	506.87	670689.10	1198171.25	BFC, PT
740	505.01	670688.97	1198142.25	BFC, PC
741	504.57	670691.87	1198135.17	BFC, MC
742	504.36	670698.93	1198132.21	BFC, PT
743	504.36	670699.89	1198132.20	BFC, PC
744	504.49	670702.41	1198134.69	BFC, PT
745	505.36	670702.47	1198149.19	BFC, AP
746	505.00	670782.47	1198148.83	BFC, AP
747	504.13	670782.40	1198134.33	BFC, PC
748	503.98	670784.89	1198131.82	BFC, PT
749	503.98	670796.89	1198131.77	BFC, PC
750	504.14	670799.40	1198134.26	BFC, PT
751	505.01	670799.47	1198148.76	BFC, AP
752	514.23	670842.86	1198233.56	FL, CC
753	514.37	670814.35	1198233.69	FL, CC
754	514.44	670800.85	1198233.75	BFC, AP
755	515.47	670800.93	1198251.25	BFC, PC
756	515.63	670798.44	1198253.76	BFC, PT
757	515.70	670785.44	1198253.82	BFC, PC
758	515.56	670782.93	1198251.33	BFC, PT
759	514.53	670782.85	1198233.83	BFC, AP

POINT TABLE FOR GR-0				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
760	514.54	670780.86	1198233.84	FL, CC
761	514.80	670728.85	1198234.07	BFC, AP
762	515.60	670728.93	1198251.57	BFC, PC
763	515.70	670726.44	1198254.09	BFC, PT
764	515.77	670723.01	1198254.10	BFC, PC
765	515.60	670719.18	1198253.36	BFC, MC
766	515.30	670715.93	1198251.20	BFC, PT
767	513.84	670700.51	1198235.92	BFC, PC
768	512.55	670694.06	1198227.41	BFC, MC
769	511.14	670690.24	1198217.44	BFC, PCC
770	510.12	670692.26	1198208.84	BFC, MC
771	509.35	670700.32	1198205.21	BFC, PCC
772	509.48	670702.73	1198207.70	BFC, PT
773	509.48	670702.80	1198222.19	BFC, AP
774	509.98	670782.80	1198221.83	BFC, AP
775	509.11	670782.73	1198207.33	BFC, PC
776	508.98	670785.22	1198204.82	BFC, PT
777	509.09	670797.22	1198204.77	BFC, PC
778	509.30	670799.73	1198207.26	BFC, PT
779	510.17	670799.80	1198221.75	BFC, AP
780	518.09	670800.13	1198294.75	BFC, AP
781	517.22	670800.06	1198280.25	BFC, PC
782	517.08	670797.55	1198277.77	BFC, PT
783	517.14	670785.55	1198277.82	BFC, PC
784	517.30	670783.06	1198280.33	BFC, PT
785	518.17	670783.13	1198294.83	BFC, AP
786	518.12	670719.13	1198295.12	BFC, AP
787	517.21	670719.06	1198280.02	BFC, PC
788	517.08	670717.00	1198277.57	BFC, PCC
789	516.83	670707.30	1198274.28	BFC, MC
790	516.02	670699.03	1198268.24	BFC, PT
791	514.56	670683.61	1198252.96	BFC, PC
792	512.71	670670.09	1198232.91	BFC, MC
793	510.75	670665.27	1198209.21	BFC, PT
794	508.14	670665.15	1198182.98	BFC, PC
795	507.96	670662.64	1198180.49	BFC, PT
796	508.23	670645.14	1198180.57	BFC, AP
797	500.93	670644.62	1198063.57	BFC, AP
798	500.67	670662.12	1198063.49	BFC, PC
799	500.48	670664.60	1198060.98	BFC, PT

POINT TABLE FOR GR-05				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
800	491.64	670393.85	1197899.69	BFC, PT, ME
801	491.87	670385.56	1197900.08	BFC, MC, ME
802	492.09	670377.32	1197901.15	BFC, PC, ME
803	492.20	670371.93	1197902.07	BFC, ME
804	492.32	670366.54	1197903.00	BFC, PT, ME

Verify (Plans: Sht GR-19)

Verify 0% gutter slope at this location. (Plans: Sht GR-19)

Verify 0% gutter slope at this location. (Plans: Sht GR-19)

See comment Sht GR-04. (Plans: Sht GR-19)



Know what's below. Call before you dig.

APPROVED
 BY: CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTE:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
 Field conditions may dictate changes to these plans as determined by the City Engineer.

ABBREVIATION TABLE	
AP	ANGLE POINT
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BACK OF WALK
CC	CURB CUT
CVF	CONTRACTOR TO VERIFY IN FIELD
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ES	EDGE OF SIDEWALK
FL	FLOW LINE
MC	MIDDLE OF CURVE
ME	MATCH EXISTING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALL
TR	TOP OF RAMP
TS	TOP OF STAIR

NOTE: SYMBOLS NOT TO SCALE 100% REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED	DRAWN	CHECKED	APPROVED
			WZG	RLP	DMS	DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
 FILE NAME: Q3-PS0731200C-GR
 JOB No: 217-7312-004
 DATE: MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

GRADING POINT TABLES

DRAWING NO.
GR-19
 48 OF 58

APPROVED
 BY: _____
 CITY OF PUYALLUP
 ENGINEERING DEPARTMENT
 DATE: _____
 NOTES:
 This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
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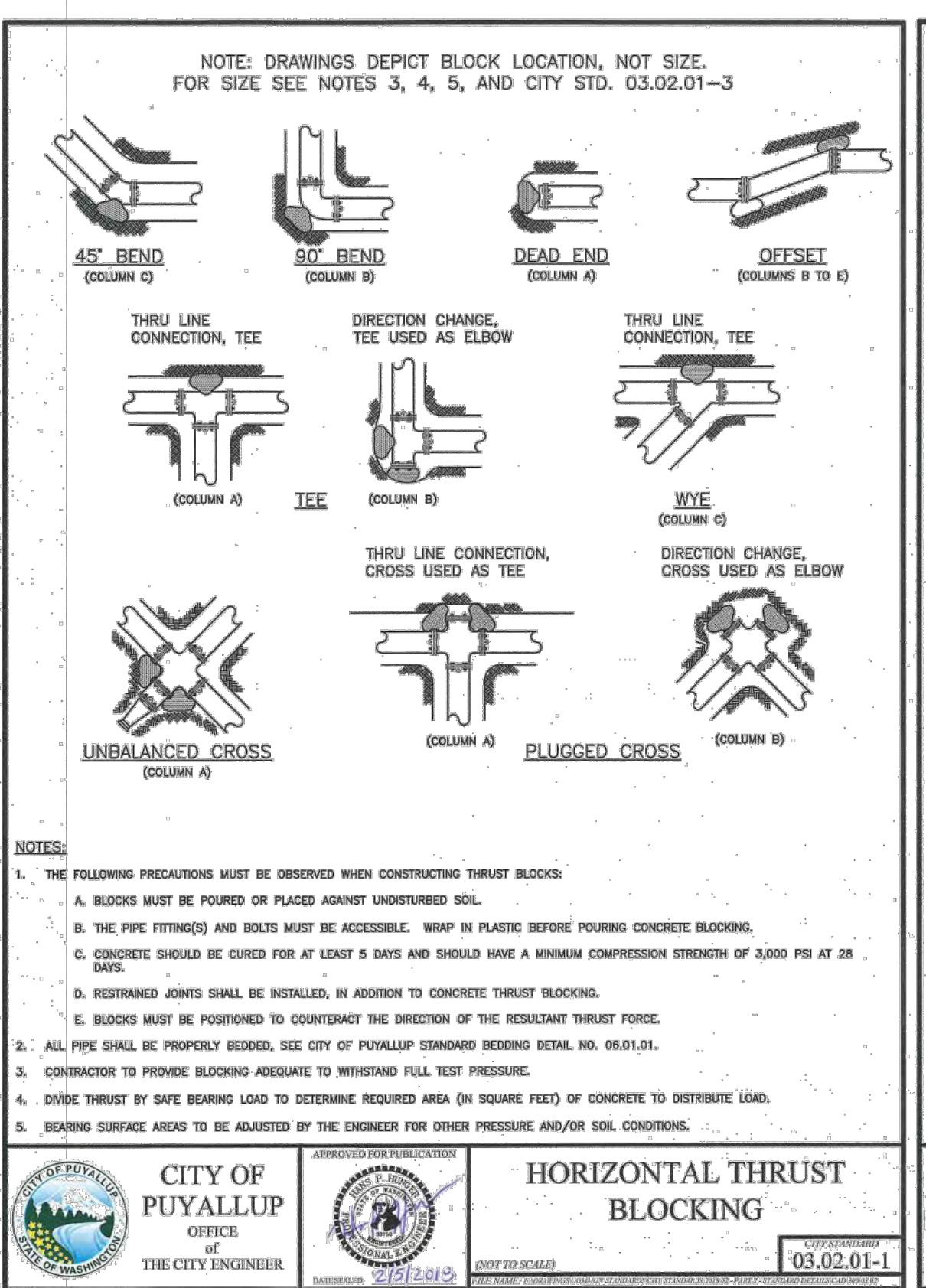
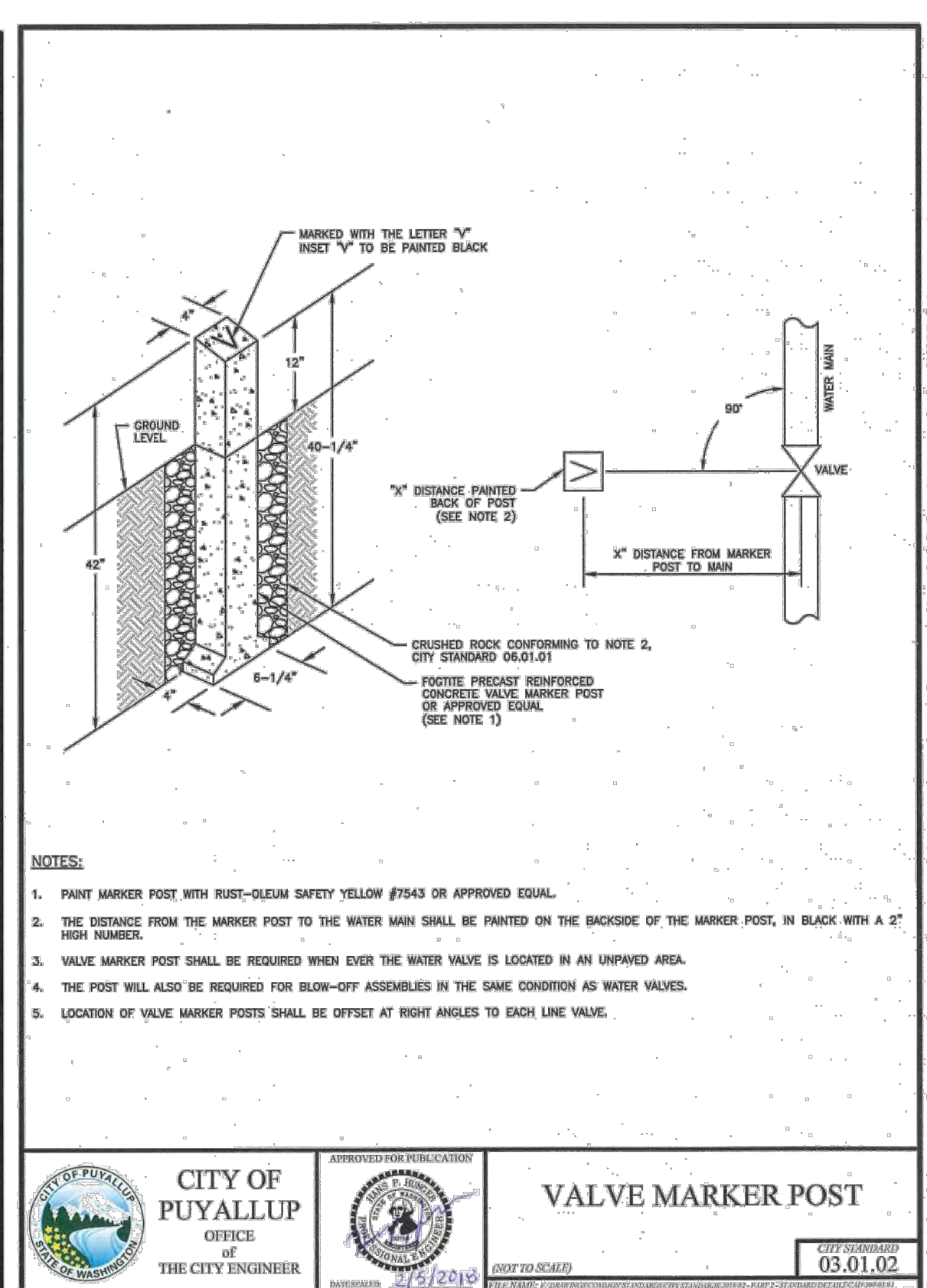
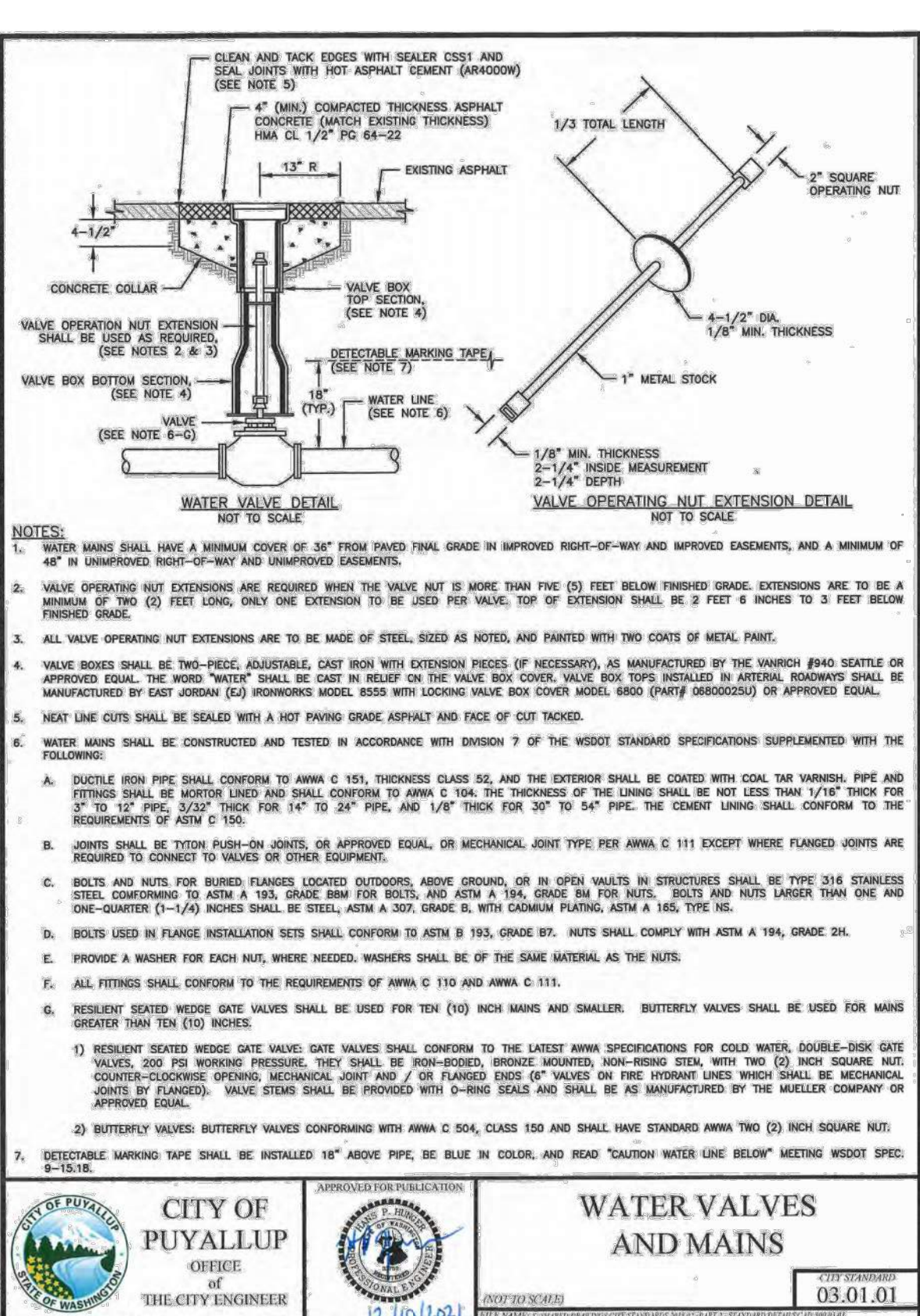


TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIAMETER (INCHES)	TEST PRESSURE (PSI)	BEND ANGLE (DEG)	CONCRETE VOLUME (CY)	CURB SIZE (INCHES)	CHAIN SIZE (INCHES)	CHAIN EMBEDMENT (INCHES)
4"	200	11.25°	4	1.8	3/8"	17"
		22.5°	12	2.3		
		45°	22	2.8		
6"	200	11.25°	14	2.4	3/8"	17"
		22.5°	27	3.0		
		45°	50	3.7		
8"	200	11.25°	25	2.9	3/8"	17"
		22.5°	48	3.6		
		45°	89	4.5		
10"	200	11.25°	36	3.4	3/8"	17"
		22.5°	70	4.2		
		45°	128	5.2		
12"	200	11.25°	55	3.8	3/8"	17"
		22.5°	108	4.8		
		45°	200	5.8		
14"	200	11.25°	75	4.2	3/8"	17"
		22.5°	147	5.3		
		45°	272	6.5		
16"	200	11.25°	98	4.6	3/8"	17"
		22.5°	192	5.8		
		45°	355	7.1		

ALL NOTES ON CITY STANDARD 03.02.01-1 SHALL APPLY TO THIS DETAIL.
 SEE CITY STANDARD 03.02.01-3 FOR ADDITIONAL INFORMATION.

TABLE 2: THRUST AT FITTINGS AT 200 PSI

SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		A	B	C	D	E
4"	200	3,140	4,440	2,405	1,225	815
6"	200	7,070	9,995	5,410	2,760	1,585
8"	200	12,565	17,770	9,620	4,905	2,485
10"	200	18,835	27,770	15,030	7,680	3,850
12"	200	26,275	39,985	21,640	11,030	5,540
14"	200	35,485	54,425	29,455	15,015	7,545
16"	200	46,265	71,095	38,470	19,815	9,955

TABLE 3: BEARING VALUE OF SOIL

SOIL TYPE	SAFE BEARING LOAD (PSF)
MUCK, PEAT, ETC.	0
SOFT CLAY/ALLUVIAL SOIL	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL, CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2, FOR ADDITIONAL INFORMATION.

NOTES:

- TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
 EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI.
 $39,985 \times \frac{300}{200} = 59,978 \text{ LBS}$
- TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):
 SEE TABLE 3, BEARING VALUE OF SOIL.
 EXAMPLE: FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF.
 $59,978 \text{ LBS} \div 3,000 \text{ LBS/SF} = 20 \text{ SF OF AREA}$
- CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
- AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
- NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M-J) PLUG OR CAP.

WATER SYSTEM NOTES:

- All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
- After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City'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 the City prior to acceptance of the water system and provision of sanitary sewer service.
- All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards"), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.
- A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
- Any revisions made to these plans must be reviewed and approved by the developer's engineer, the Engineering Services Staff, and the FMWC, VW or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
- 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.
- Any structure and/or obstruction which requires removal or relocation relating to this project shall be done so at the developer's expense.
- Bacteriological (Coliform and Iron Bacteria) test samples will be taken by the City (or FMWC, VW or TCW when served by that purveyor) and paid for by the contractor, except for Capital Improvement Projects (CIP) which shall be paid for by the City.
- Water mains shall have a minimum cover of 36 inches from paved final grade in improved right-of-way and improved easements, and a minimum of 48 inches in unimproved right-of-way and unimproved easements.

- Pipe for water mains shall be ductile iron conforming to Section 7-09 of the Standard Specifications, Class 52 with tyton or approved equal joints. Pipe shall be cement lined in accordance with A.S.A. Specification A 214.4-1964.
- Connections to existing water mains typically shall be wet taps through a tapping tee and tapping valve and shall be made by a city approved contractor. The tapping sleeve shall be Romac SST all stainless steel tapping sleeve or approved equal. A two-piece epoxy coated or ductile iron tapping sleeve may be used on ductile iron pipe, when the tap is smaller than the water main size i.e. 6-inch tap on 8-inch pipe. The City (or FMWC, VW or TCW when served by that purveyor) shall approve the time and location for these connections.
- All water mains and appurtenances shall be hydrostatically tested at 200 psi in accordance with Standard Specification 7-09.3(23). Pressure testing shall not be performed until satisfactory purity samples have been received, except when new water mains are installed independently from the water system piping.
- Fire hydrants shall be installed in accordance with City Standard Detail 03.05.01 and as directed by the City of Puyallup Fire Code Official.
- Valve marker posts shall be installed where valve boxes are hidden from view or in unpaed areas. The installation shall be in accordance with City Standard Detail 03.01.02.
- Resilient seated wedge gate valves shall be used for 10-inch mains and smaller. Butterfly valves shall be used for mains greater than 10 inches.
- Pipe fitting for water mains shall be ductile iron and shall be mechanical joint conforming to AWWA Specification C111-72.
- Water main pipe and service connections shall be a minimum of 10 feet away from building foundations and/or roof lines.
- Where a water main crosses the Northwest Gas pipeline, the water line shall be cased with PVC pipe a minimum of 10 feet beyond each side of the gas line easement. Contact Williams Northwest Pipeline before the crossing is made.
- Trenching, bedding, and backfill for water mains shall be installed in accordance with City Standard Detail 06.01.01.
- All commercial and industrial developments, irrigation systems, and multi-family water service connections shall be protected by a double check valve assembly or a reduced pressure backflow assembly as directed by the City (or FMWC, VW or TCW when served by that purveyor) conforming to City Standard Details 03.04.01, 03.04.02, and 03.04.03.
- Any lead joint fitting disturbed during construction shall be replaced with a mechanical joint fitting at the contractor's expense.
- When hydraulic fire flow modeling is required for a project, the City will issue a permit. The hydraulic modeling criteria is based on the projected 2030 water demand, while maintaining a minimum system pressure of 20 pounds per square inch and a maximum velocity of 10 feet per second.

- When using a fire hydrant for non-firefighting purposes, a city hydrant meter must be used. Coordinate the acquisition of the hydrant meter with the City's Utility Billing Division at Puyallup City Hall. A city approved backflow protection assembly shall be installed by the person requesting use of a fire hydrant. The assembly shall be accompanied by a current backflow assembly test report. The test report shall be available at the site for the duration of the hydrant use.
- Should a break occur on any City water main, the Contractor shall follow the City's adopted "Water Main Break Procedure" issued to them at the Pre-Construction Meeting and notify those connected to the system in the impacted area as outlined in the Procedure.
- Water Main Repairs (References: AWWA C651-14 and WSDOT Standard Specification Section 7-09)
 (Note: A planned water main repair shall be approved by the City Inspector and/or Water Division Supervisor prior to commencing work.)
 - Repair without depressurization** - Small leaks shall be repaired using repair bands while maintaining positive pressure in the water main. Valves surrounding the leak will be partially shut by the City Water Department to reduce the flow and pressure to the area. Blowoffs and hydrants in the reduced pressure area may be opened as needed to further reduce the pressure. The water main trench shall be over-excavated to allow water in the trench to be pumped out and maintained below the level of the water main. The repair shall be completed with the water main pressure remaining positive. After the repair is made, the system shall be fully pressurized and a visual leak inspection will be completed. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from valve opened for flushing to the exit hydrant or blowoff).
 - Repair/cut-in with depressurization** - Trench shall be over excavated and dewatered below the water main. Flush water from pipe from each direction until it runs clear. Immediately prior to installation of a new pipe section for repair or cut in tee, all new fittings and pipe spools shall be swabbed with a five percent (5%) chlorine solution (minimum). The interior of the existing pipe shall be swabbed with a five percent (5%) chlorine solution at least 6 feet in each direction from exposed cut ends. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from the valve opened for flushing to the exit hydrant or blowoff). Customers shall be notified after the water main is flushed and repairs have been completed, as outlined in the "Water Main Break Procedure."
- New Water Main Installation:
 - Each new water main section shall be delivered, stacked and stored onsite with ends plugged. The plugs shall remain in the pipe until each particular section is installed. National Sanitation Foundation (NSF) approved sixty-five percent (65%) calcium hypochlorite shall be added to the upstream end of each pipe section, and at each hydrant tie in the amount given in the table below (or per approved manufacturer specifications). The minimum amount of calcium hypochlorite added should be sufficient to achieve a 50 mg/L concentration within the impacted area.

65% Calcium Hypochlorite Addition per Pipe Section

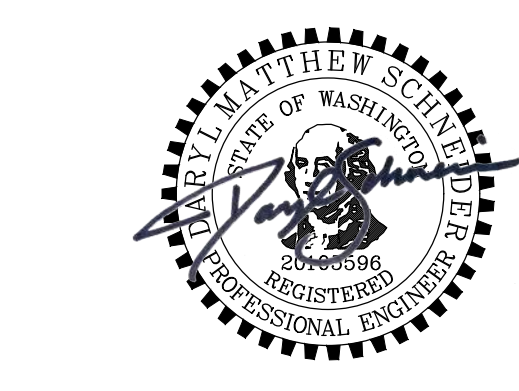
Pipe Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules Ounces per 500 feet	Teaspoons per 18 feet	Maximum Fill Rate (gpm)
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	2.5	600

- New water mains shall be filled using an approved backflow prevention assembly. The water main shall be filled from the lower elevation end so that as the water main is filled, the chlorine is contacted, dissolved and spread relatively uniform through the length of the new water main. The fill rate shall be minimized so that the velocity of the water is less than 1 ft/sec (see table above). Successful pressure test and bacteriological tests shall be completed and provided to the City prior to any new water main connection to the existing water system.
- The chlorinated water will be allowed to remain in contact with the new water main system for 24 to 72 hours. After 24 hours, water may be added to the water main for the purposes of pressure testing. The water in the main used for pressure testing must remain in the water main until pressure test is completed. If necessary, liquid chlorine shall be injected into the water main with fill water to maintain a concentration in the water main above 50 mg/L. Under no circumstance shall "super" chlorinated water be allowed to sit within a new water main for more than 5 days.
- Pressure testing includes testing against new valves and hydrants. Each valve shall be tested by closing each in turn and reducing the pressure beyond the valve. The pressure on the back side of the valve should not be eliminated. Care must be taken that, during this process, positive pressure remains throughout the system being tested at all times. All hydrant foot valves shall be open during pressure testing so that the pressure test is against the hydrant valve. Pressure testing will not be allowed against any existing valves.
- After successful pressure testing, the water main shall be thoroughly flushed to remove all "super" chlorinated water from the new water main. Flushing of new or extended water mains shall be conducted per WSDOT Specification 7-09.3(24)A with a minimum velocity developed within the pipe while flushing of 2.5 feet per second (fps). All flushed water shall be dechlorinated prior to disposal. The Contractor shall be responsible for disposal of all chlorinated water flushed from mains. **The City shall approve the disposal method prior to implementation in the field.** The Contractor shall utilize onsite disposal methods, if available. Disposal of flush water to the sanitary sewer system shall not be allowed without written permission from the Water Pollution Control Plant (WPCP) Supervisor. Any planned discharge to a stormwater system shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted (if necessary) to be between 6.5 and 8.5, and volumetrically and velocity controlled to prevent any resuspension of sediments. The City will require independent testing throughout the water discharge process to ensure compliance of these standards are met.
- Samples for bacteriological analysis shall be collected after flushing and again 24 hours after the first set of samples.
- All closure/final connection fittings shall be sprayed clean and then swabbed with a five percent (5%) chlorine solution immediately prior to installation per AWWA Standard C651. Additional samples for bacteriological analysis shall be collected from the immediate vicinity of the new or replaced water main and analyzed after the final connections are made. If necessary, additional flushing shall be conducted and additional samples shall be collected until satisfactory results are obtained.

REVISIONS	DATE	BY	DESIGNED	CHECKED	APPROVED
			WZG	RLP	DMS
					DMS

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

FILE NAME: 04-P20731200C-WA
 JOB No: 217-7312-004
 DATE: MARCH 2022



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

WATER MAIN DETAILS

DRAWING NO.
 50 OF 58
WA-02

NOTE: SYMBOLS NOT TO SCALE
100% REVIEW SUBMITTAL

LAYOUT: WA-02
 PLOTTED BY: peltrus DATE: Friday, March 4, 2022 10:46:57 AM
 PATH: U:\PSO\Projects\Clients\7312-Benaroya\217-7312-004_SIB&TCP\expansion\98\Draws\CA\00\VDWG



Catalog #: _____ Project: _____
 Prepared By: _____ Date: _____ Type: _____

Mirada Post Top (MPP)

Outdoor LED Post Top



OVERVIEW	
Lumen Output Range	10,000 - 25,000
Wattage Range	67 - 191
Efficacy Range (LPW)	131 - 164
CCT (K)	3000, 4000, 5000
Controls	Standalone, Wireless
Weight lbs (kg) - AL14	55 (25)

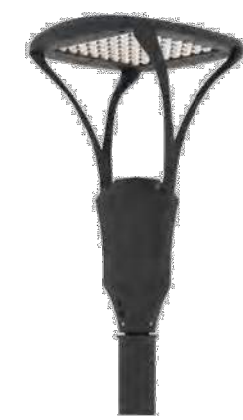
QUICK LINKS

[Ordering Guide](#) | [Performance](#) | [Photometrics](#) | [Dimensions](#)

FEATURES & SPECIFICATIONS

- Construction**
- Rugged die-cast aluminum optical housing, cage, and fitter. Fitter contains factory pre-wired drivers and optional controls.
 - Complete die-cast aluminum construction for maximum quality and surface finish.
 - 1-PC die-cast aluminum cage with wire passages allows for IP66 full luminaire rating to protect integral components from harsh environments.
 - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
 - Shipping weight: 55 lbs in carton.
- Optical System**
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket.
 - Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT.
 - Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
 - Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
 - Minimum CRI of 70
 - Integral louver (IL) and house-side shield (HS) options available for improved back-light control without sacrificing street side performance. See page 7 for more details.
- Electrical**
- High-performance programmable driver features over-voltage, undervoltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
 - 0-10V dimming (10% - 100%) standard.
 - Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
 - L92 Calculated Life: >100K Hours (See Lumen Maintenance on Page 3)
 - Total harmonic distortion: <20%
 - Operating temperature: -40°C to +50°C (-40°F to +122°F). 72L Package is limited to 40°C.
 - Power factor: >.90
 - Input power stays constant over life.
 - Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
 - High-efficiency LEDs mounted to metal-core circuit board to maximize heat dissipation
 - Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards.
 - Internal power supplies and controls can be serviced via (2) integral fitter removable power trays.
- Installation**
- Designed to mount to 2-3/8"-3" OD x 3" to 4-1/2" tall tenon.
 - Secures to tenon with 8 stainless steel set screws.
 - 6' wire leads with strain relief zip-ties are provided in fitter for ease of wiring.
- Warranty**
- LSI luminaires carry a 5-year limited warranty. Refer to website for details.
- Listings**
- Listed to UL 1598 and UL 8750.
 - Title 24 Compliant; see local ordinance for qualification information.
 - Suitable for wet Locations
 - IP66 rated Luminaire per IEC 60598.
 - 3G rated for ANSI C136.31 High vibration applications.
 - DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/GPL to confirm which versions are qualified.
- Specifications and dimensions subject to change without notice.*

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Know what's below.
Call before you dig.



SCALE IN FEET
0 50 100

LEGEND:

- STREET LIGHT (TYPE A, 29 TOTAL)
- STREET LIGHT (TYPE B, 4 TOTAL)

GENERAL NOTE:

- TYPE A STREETLIGHTS SHALL BE LSI INDUSTRIES MIRADA POST TOP OUTDOOR LED POST TOP, TYPE 5 (MPP-LED-10L-SIL-5WW-40-70CRI) WITH THE FOLLOWING SPECIFICATIONS:
 - DELIVERED LUMENS: 9,619
 - WATTAGE: 73
 - COLOR TEMP: 4000 KELVIN, 70 CRI
- TYPE B LUMINAIRES SHALL BE LSI INDUSTRIES MIRADA POST TOP OUTDOOR LED POST TOP, TYPE 4 (MPP-LED-10L-SIL-FT-40-70CRI) WITH THE FOLLOWING SPECIFICATIONS:
 - DELIVERED LUMENS: 10,197
 - WATTAGE: 73
 - COLOR TEMP: 4000 KELVIN, 70 CRI

CONSTRUCTION NOTE:

- CONSTRUCT LIGHT STANDARD FOUNDATION TYPE A PER WSDOT STANDARD PLAN J-28.30-03. INSTALL LIGHT STANDARD AND 8' LUMINAIRE ON FOUNDATION.

LIGHTING CONTOURS =0.50 FC
 LIGHTING CONTOURS =0.25 FC

LIGHTING CONTOURS =0.50 FC
 LIGHTING CONTOURS =0.25 FC

LIGHTING CONTOURS =0.50 FC
 LIGHTING CONTOURS =0.25 FC

NOTE TO REVIEWER:

PARKING LOT ILLUMINATION IS BASED ON IES RP-8-18, TABLE 17-2), WHICH RECOMMENDS A 0.46 FOOTCANDLE MINIMUM AND 15:1 (MAX:MIN) OR BETTER UNIFORMITY. THE PARKING LOT ILLUMINATION DESIGN SHOWN ON THIS SHEET HAS A 0.49 FOOTCANDLE MINIMUM AND 11:1 (MAX:MIN) UNIFORMITY.

POLES ARE 20' TALL AND ARE POST MOUNTED.

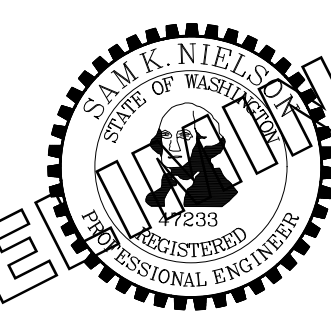
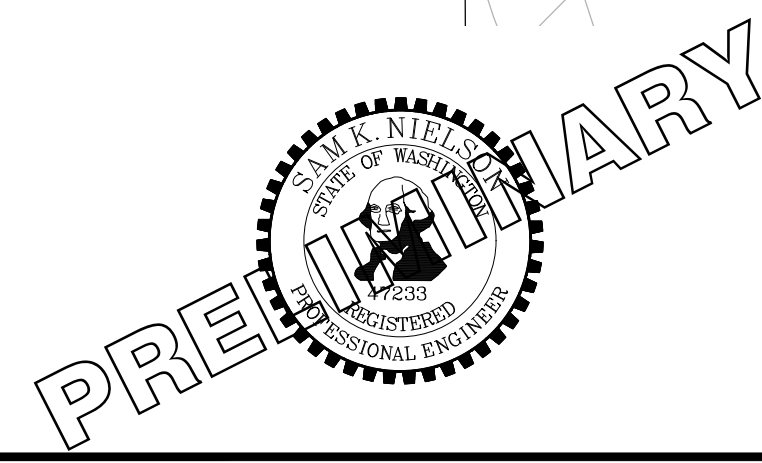
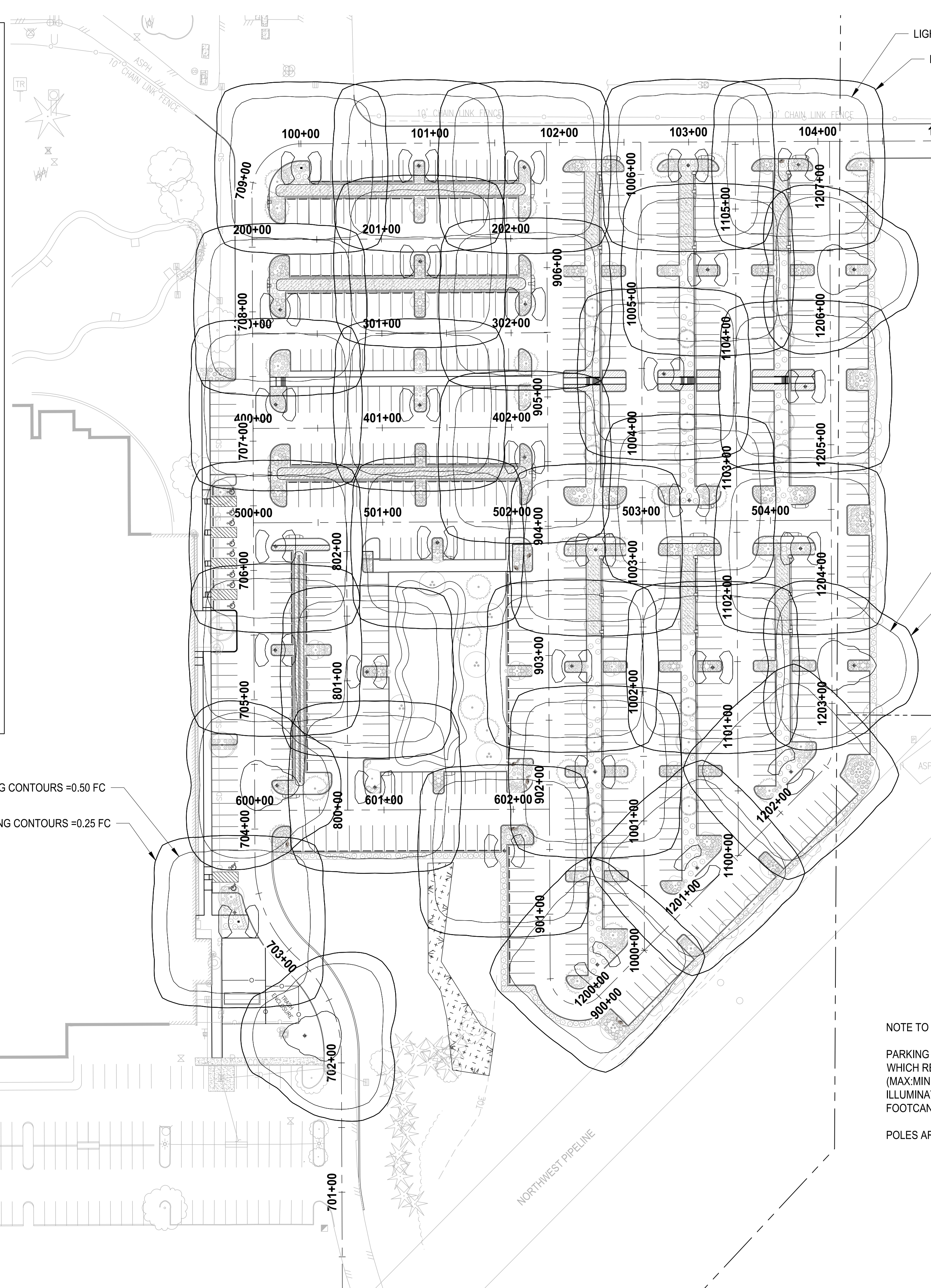
NOTE:
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NOT FOR CONSTRUCTION

ILLUMINATION PLAN
COMPOSITE

DRAWING NO.
51 OF 70

IL-00



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PROJECT NAME

SOUTH HILL BUILDING & TECHNOLOGY CENTER PARKING EXPANSION
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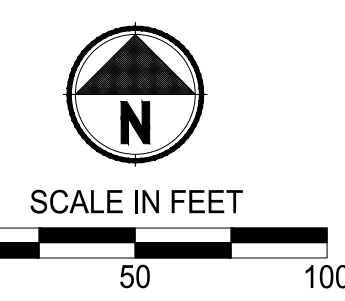
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FILE NAME
00-PS0731200C-ILL
JOB No.
217-7312-004
DATE
MAY 2021

LAYOUT: IL-00 PATH: U:\PS0\Projects\Clients\7312-004-SHIB&C\Forking\Expansion\9956va_CADD\DWG PLOTTED BY: jettifus DATE: Tuesday, May 18, 2021 11:46:47 AM

Remove Approval Block from Landscape Plans. Typ: all landscape sheets [Plans; Sht LS-00]



APPROVED

BY: CITY OF PUYALLUP
ENGINEERING DEPARTMENT

DATE: _____

NOTE:
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LANDSCAPE LEGEND:

- RIVER BIRCH
- INCENSE CEDAR
- EUROPEAN HORNBEAM
- KOUZA DOGWOOD
- HONEYWOOD SERVICEBERRY
- PERSIAN PARROTIA
- BOULEVARD AMERICAN LINDEN
- WESTERN RED CEDAR
- EMERALD GREEN ARBORVITAE
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- DAVID VIBURNUM
- CHERRY BOMB BARBERRY
- ADAGIO GRASS
- SNOWBERRY
- GOLDFLAME SPIREA
- OCEANSPRAY

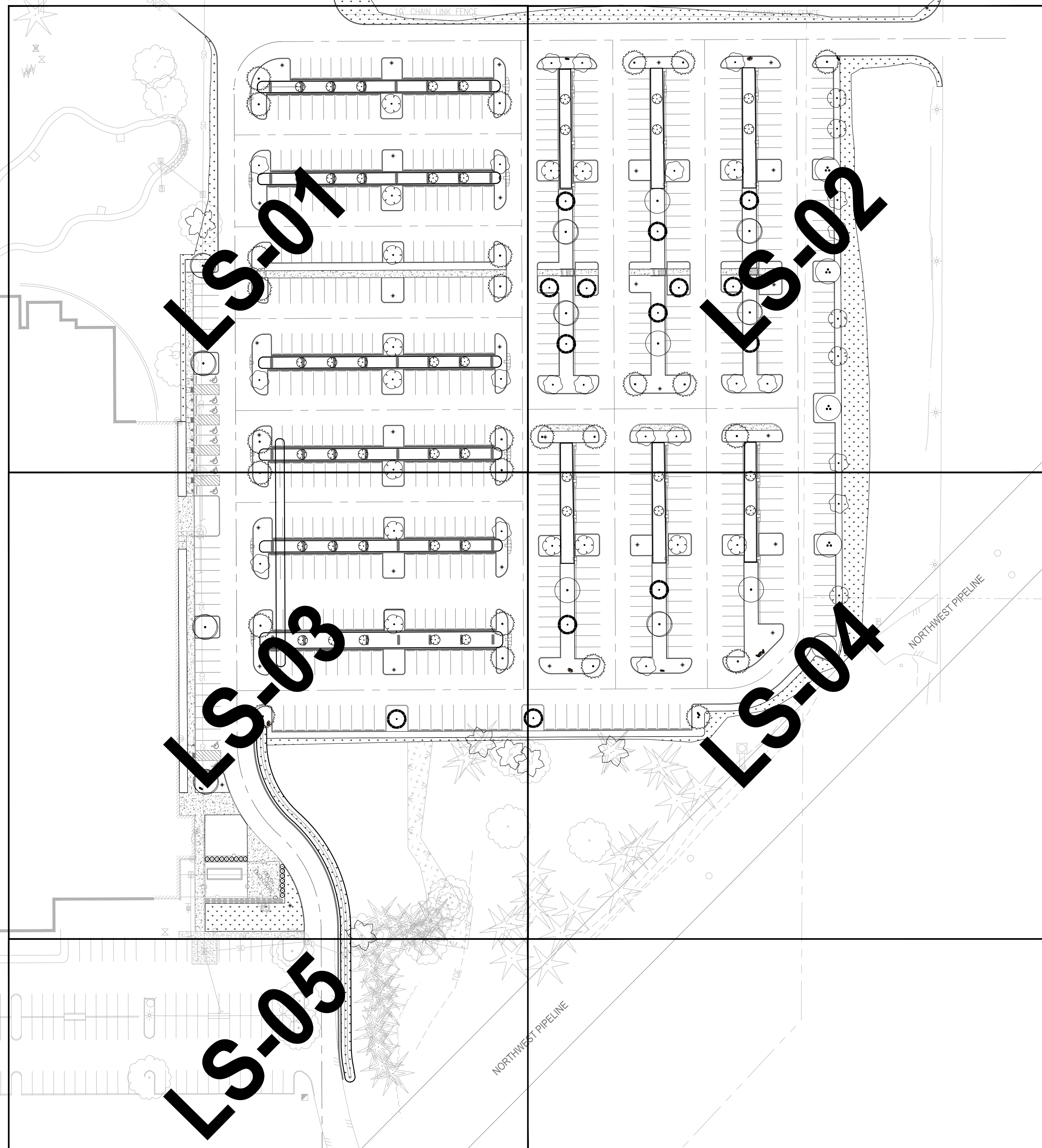
- STORMWATER PLANTING
- MEDITERRANEAN HEATH
- STELLA DE ORO DAYLILY
- MOUNT VERNON ENGLISH LAUREL
- TURF GRASS HYDROSEED RESTORATION

NOTES:

1. SEE SHEET LS-06 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
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NOTE:
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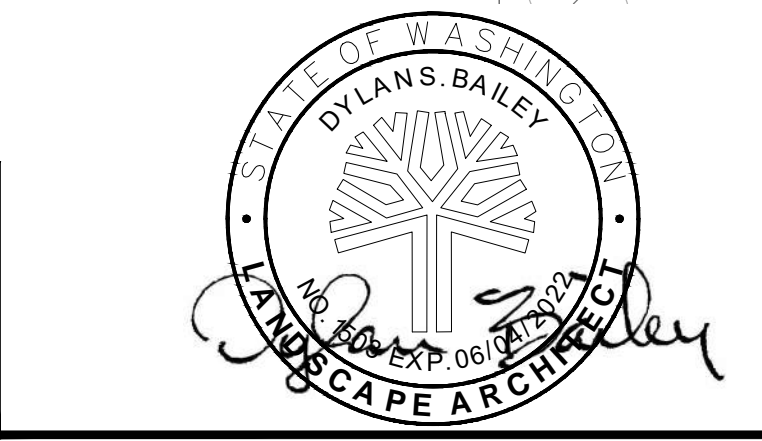
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FILE NAME
07-PS0731200C-LS

JOB No.
217-7312-004

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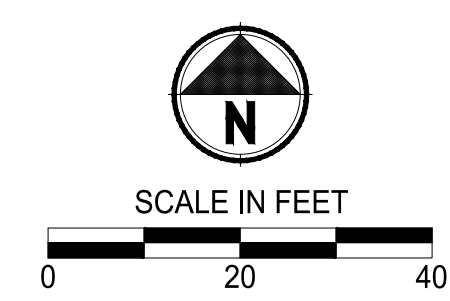
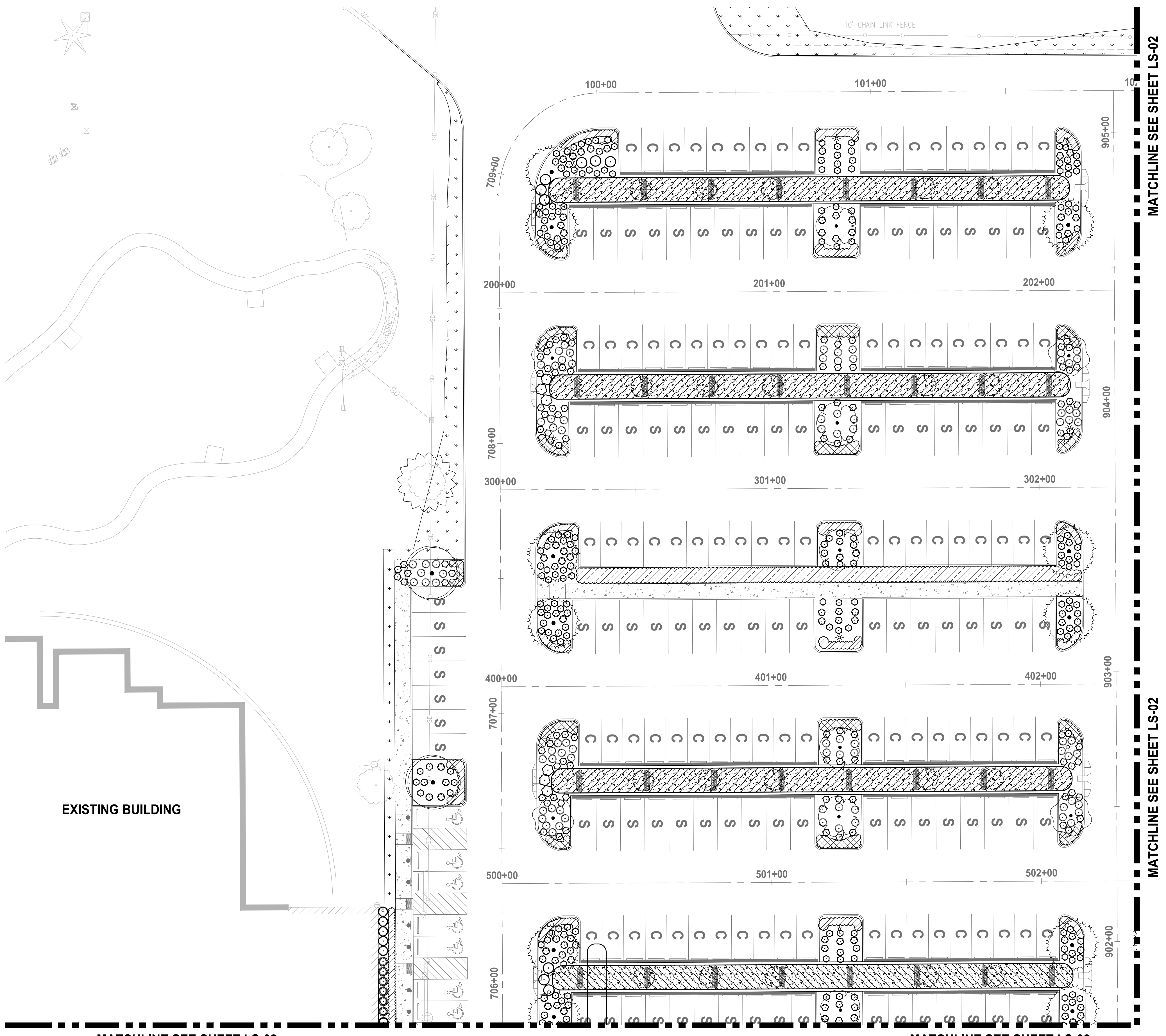
PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

LANDSCAPE PLAN COMPOSITE

DRAWING NO.
52 OF 58

LS-00

PATH: u:\p\30\Projects\Clients\7312-Beneroya\217-7312-004-SH&T\ParkingExpansion\995vcs\CAD00.DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 11:23:22 AM LAYOUT: LS-01



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NOTE: SYMBOLS NOT TO SCALE **100% REVIEW SUBMITTAL**

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			DSB
			DRAWN
			DSB
			CHECKED
			DMS
			APPROVED
			DMS

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 FILE NAME: Q7-PS0731200C-LS
 JOB No. 217-7312-004
 DATE: MARCH 2022



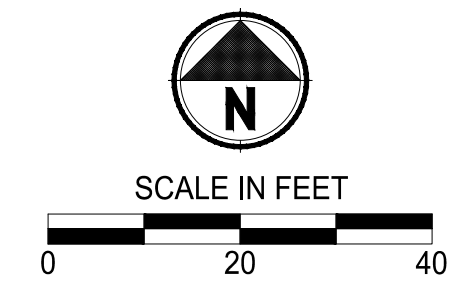
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

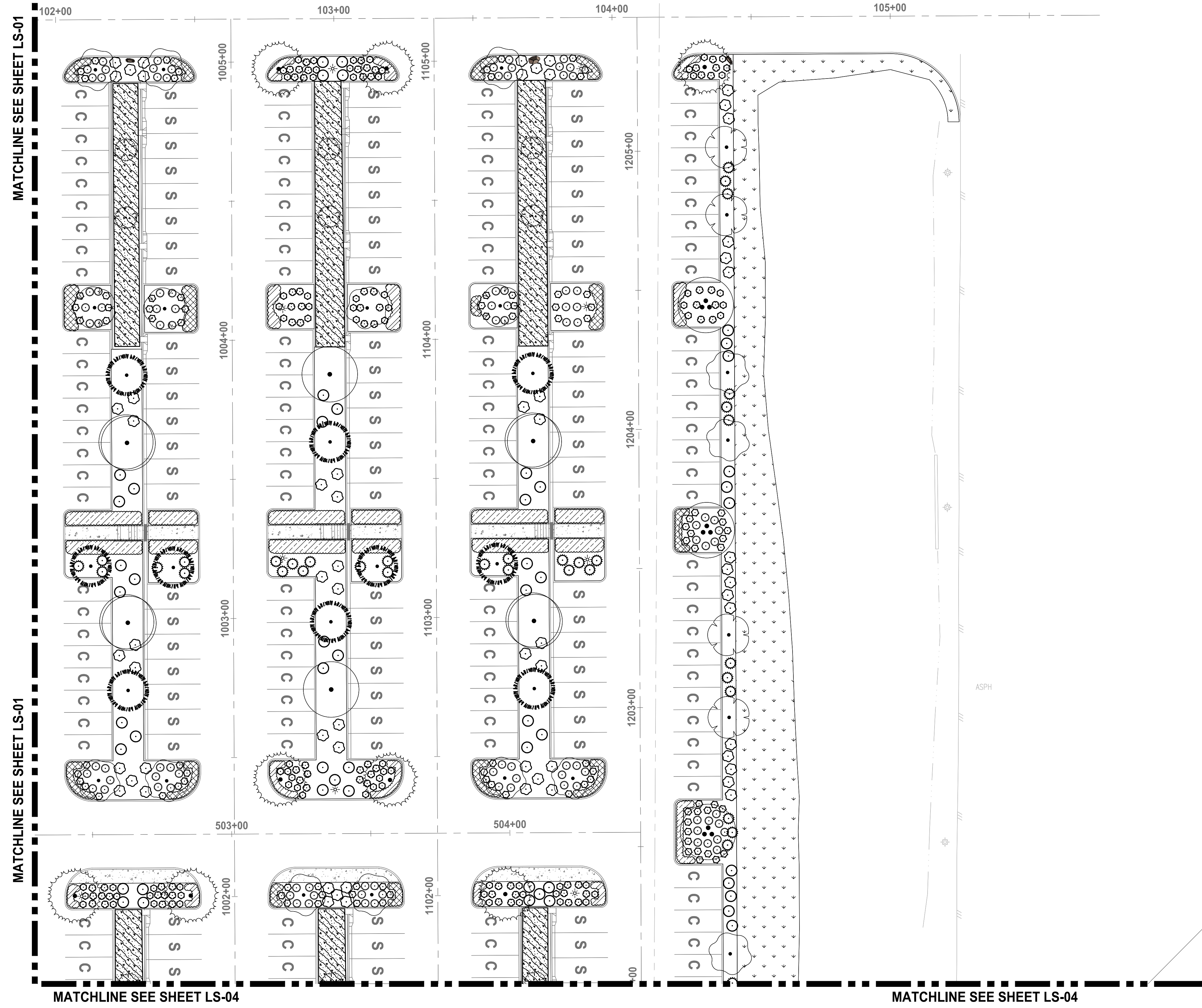
LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
 53 OF 58
LS-01

LAYOUT: LS-02 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004-SH&T\ParkingExpansion\985\scs\CADD\DWG PLOTTED BY: petritrus DATE: Friday, March 4, 2022 11:23:31 AM



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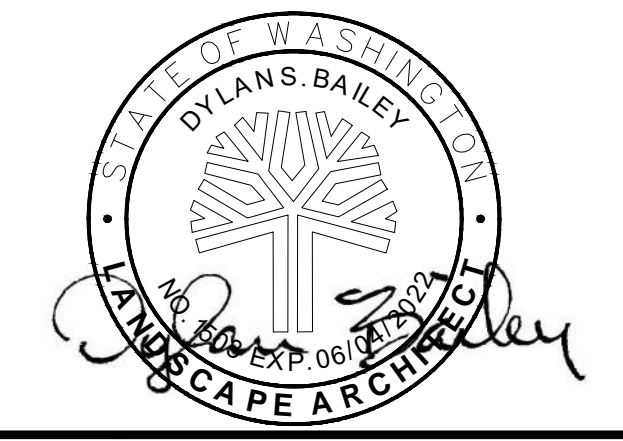
- LANDSCAPE LEGEND:**
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 - MOUNT VERNON ENGLISH LAUREL
 - TURF GRASS HYDROSEED RESTORATION

- NOTES:**
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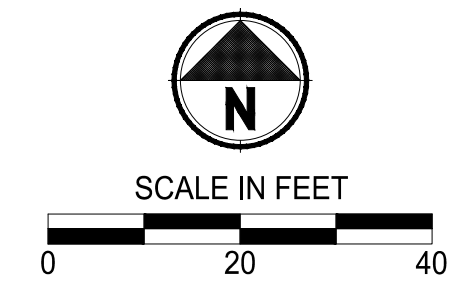
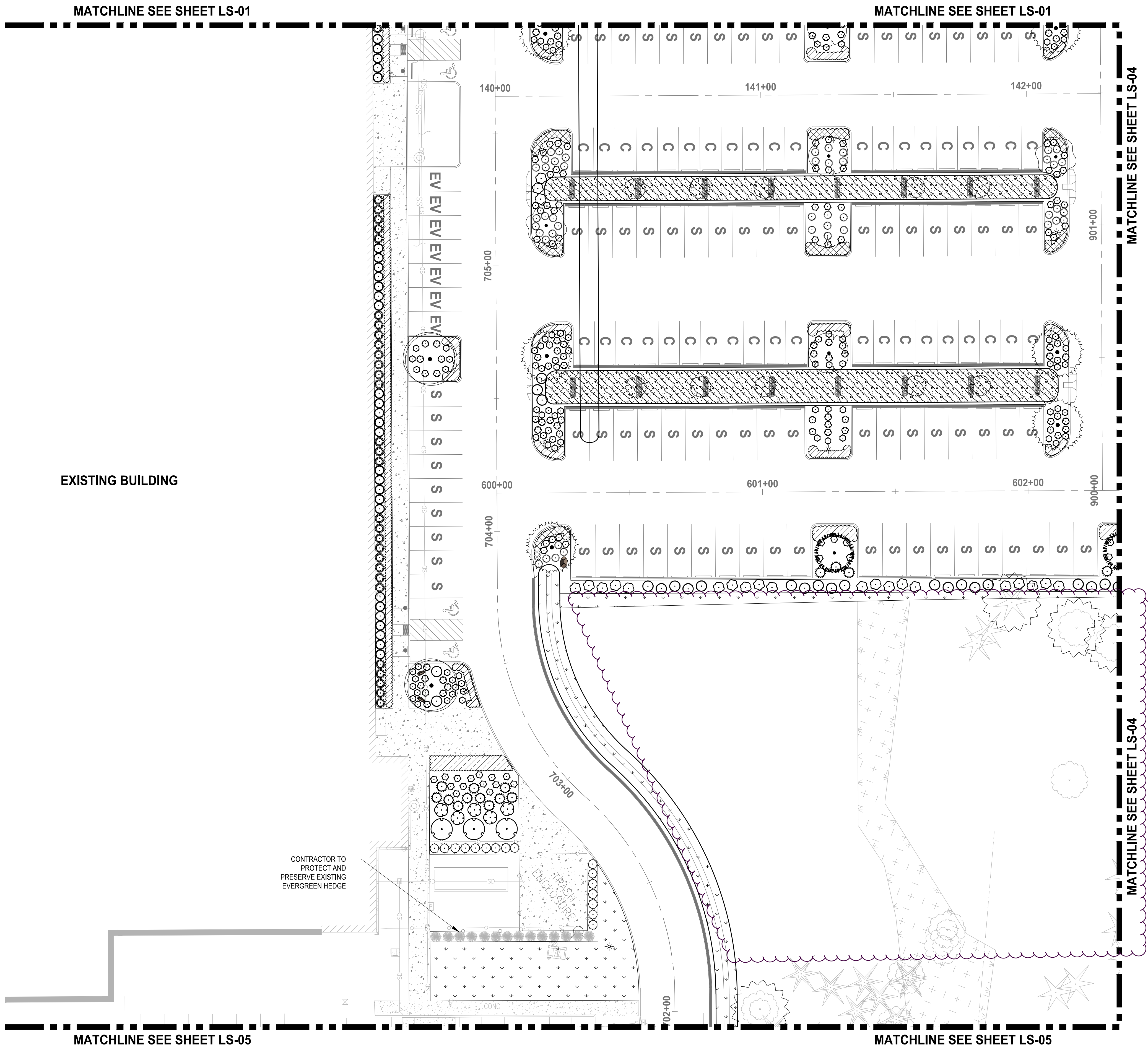
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
54 OF 58
LS-02

LAYOUT: LS-03 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004-SHB&T\ParkingExpansion\985\cs\CAD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 11:23:37 AM



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LANDSCAPE LEGEND:

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- MOUNT VERNON ENGLISH LAUREL
- TURF GRASS HYDROSEED RESTORATION

NOTES:

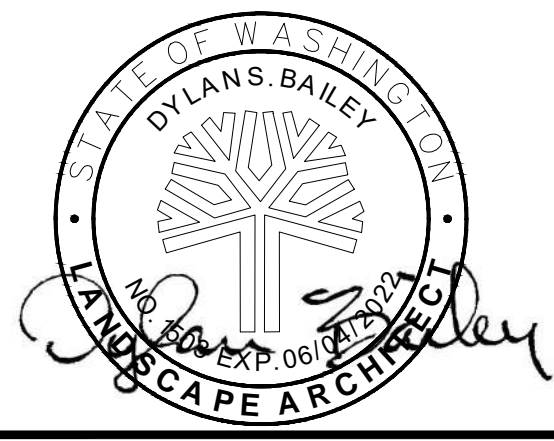
1. SEE SHEET LS-06 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
2. LOCATE TREES NO CLOSER THAN 10' MINIMUM FROM UTILITY PIPES AT BIORETENTION CELLS.
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NOTE:
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 DATE: MARCH 2022



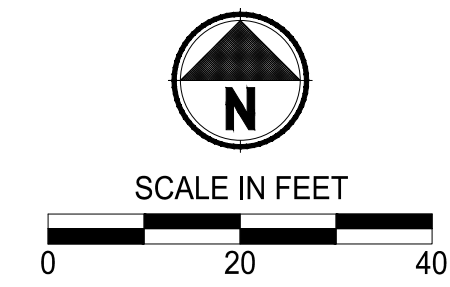
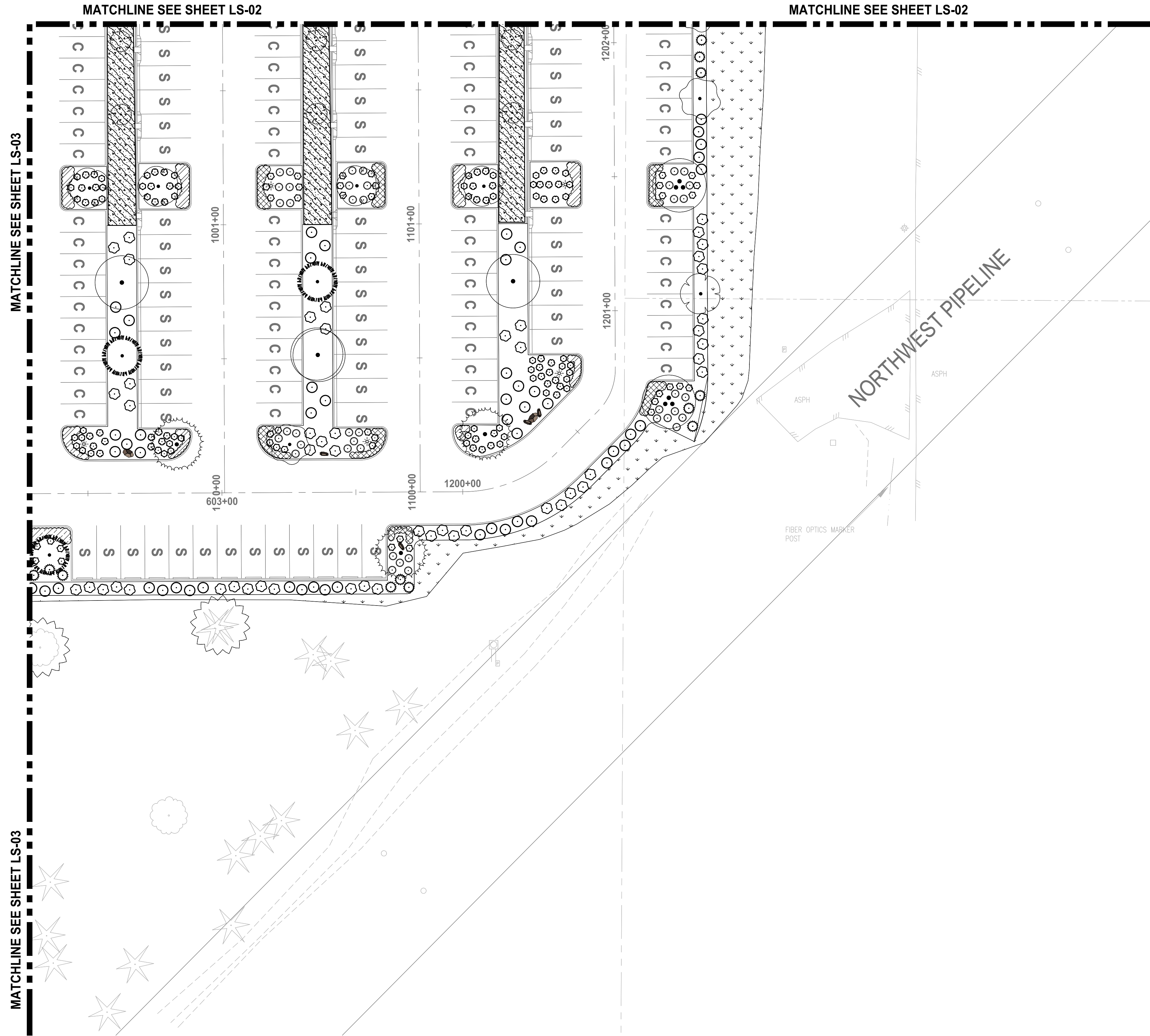
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PROJECT NAME
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 PUYALLUP, WA

LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
 55 OF 58
LS-03

LAYOUT: LS-04 PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004-SH&T\ParkingExpansion\985\scs\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 11:23:45 AM



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NOTES:

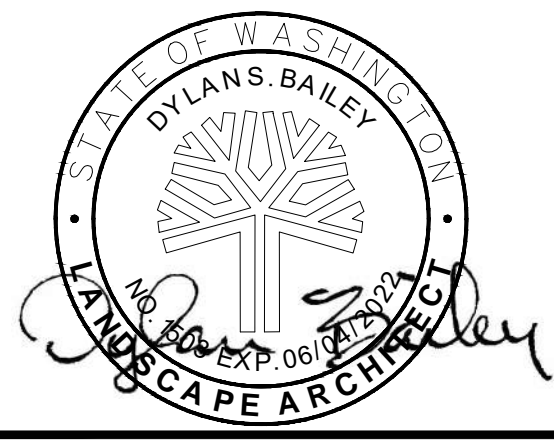
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PUYALLUP, WA

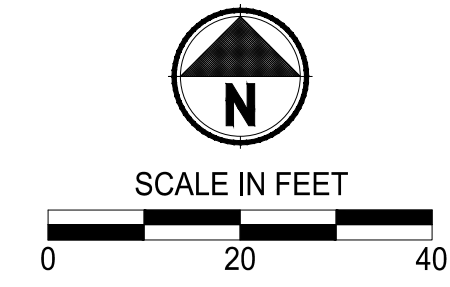
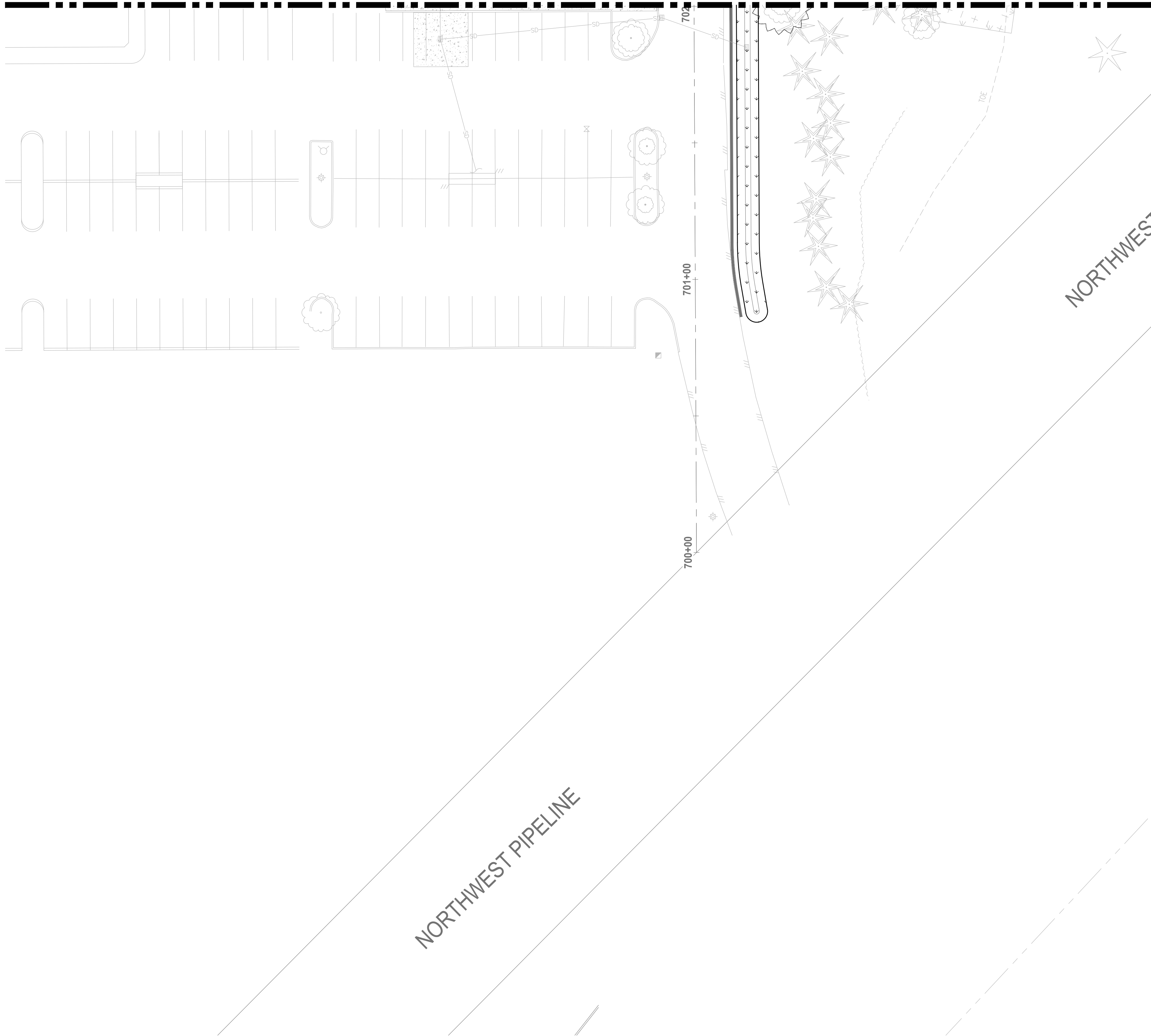
LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
56 OF 58
LS-04

PATH: U:\PSD\Projects\Clients\7312-Benaroya\217-7312-004-SHB&T\ParkingExpansion\985\cs\CADD\DWG PLOTTED BY: petrus DATE: Friday, March 4, 2022 11:23:50 AM LAYOUT: LS-05

MATCHLINE SEE SHEET LS-03

MATCHLINE SEE SHEET LS-03



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LANDSCAPE LEGEND:

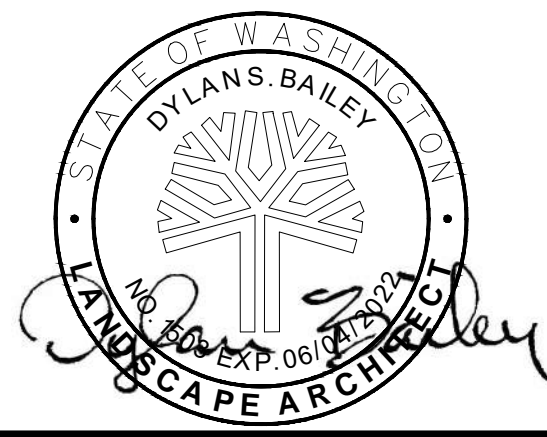
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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
 PUYALLUP, WA

LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
 57 OF 58
LS-05

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