GENERAL SITE NOTES:

- THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION. DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWING PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- . IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
- INSPECTION OF SITE WORK WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). CONTRACTOR SHALL PROVIDE ONE WEEK MINIMUM ADVANCE NOTIFICATION TO OWNER, FIELD ENGINEER AND ENGINEER OF PRE-CONSTRUCTION MEETINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHALL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES. PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
- PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL ADJACENT PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATIONAL WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
- TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF PROJECT.
- 12. CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC.
- 13. CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC., PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS GIVEN A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.

CITY OF PUYALLUP - GENERAL NOTES:

- 1. 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").
- 4. 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. 6. 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.
- 8. 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.
- 9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 10. 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.
- 11. 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 LICENSE PROFESSIONAL CIVIL ENGINEER.
- 12. 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.

- 13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- 14. 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.
- 15. 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.

SOILS REPORT NOTES:

1. THE FOLLOWING SOILS REPORT FOR THE SITE SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS:

GEOTECHNICAL ENGINEERING STUDY ARCO AMPM REFUELING STATION 1402 S MERIDIAN AVENUE PUYALLUP, WASHINGTON 98371 DATED MAY 6, 2022

KRAZAN & ASSOCIATES, INC. 825 CENTER STREET, STE A TACOMA, WASHINGTON 98409 PHONE: (253) 939-2500

- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, FOUNDATION, SLAB, DETENTION VAULT, AND PAVING
- ANY PROVISIONS OF THE SOILS REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRE FURTHER CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF BARGHAUSEN CONSULTING ENGINEERS, INC.
- A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS DOCUMENTING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATION OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL PROVISIONS FOR SOILS INSPECTIONS AS RECOMMENDED WITHIN THE SOILS REPORT. AT A MINIMUM, THIS INCLUDES THE OBSERVATIONS OF THE FOLLOWING BY A SOILS ENGINEER:
- A. OVER-EXCAVATION RECOMMENDATIONS B. PLACEMENT OF STRUCTURAL FILL MATERIAL BENEATH PAVEMENT SUBGRADE PREPARATION OF STRUCTURAL FOOTINGS D. EXCAVATION FOR UNDERGROUND STORAGE TANKS AND STORMWATER FACILITIES
- 5. THE CONTRACTOR SHALL QUALIFY ANY LIMITATIONS TO SOILS INSPECTIONS WITHIN BID PROPOSAL.

SHEET SET

ERIDIAN ST JOR ARTERIA

30' STORMWATER-SANITARY-WATERMAIN

EASEMENT AFN 9206040382

EASEMENT AFN 9206040384

-10' GAS PIPELINE EASEMENT

EXCEPTION NO. 30

EXCEPTION NO. 32

AFN 9203300111

EXCEPTION NO. 29

STREET IMPROVEMENTS

H 10' ELECTRIC EASEMENT

INGRESS/EGRESS AND UTILITIES

(TITLE PARCEL A2) AFN 2792268

COMMON ACCESS TRACT "A"

(TITLE PARCEL A1) SP NO.

EXCEPTION NO. 22

AFN 2667305

EXCEPTION NO. 25

EXCEPTION NO. 24

EASEMENT

77-315

TRAFFIC ENGINEER

12131 113TH AVE. NE, SUITE 203

VAULT STRUCTURAL

33801 1ST WAY SOUTH, SUITE 251

CONTACT: ANDY DERRICK, P.E., S.E.

-10' ELECTRIC EASEMENT

EXCEPTION NO. 25

TRANSPO GROUP

KIRKLAND, WA 98034

ENGINEER:

VISSER ENGINEERING

FEDERAL WAY, WA 98003

TEL: (253) 835-0810

(AFTER ROW DEDICATION)

LAND COVERAGE

TOTAL IMPERVIOUS:

TOTAL SITE AREA:

TOTAL SITE AREA:

XISTING PROJECT SITE SURFACE AREAS

PERVIOUS/LANDSCAPE AREA:

PROPOSED PROJECT SITE SURFACE AREAS

TOTAL IMPERVIOUS (ON-SITE):

PERVIOUS/LANDSCAPE AREA:

TEL: (425) 896-5238

CONTACT: CHRIS CAVALLO, P.E.

AFN 2792268

EASEMENT AFN 8706100397

C1.0 - COVER SHEET C2.0 - DEMOLITION PLAN C2.1 – TESC PLAN C2.2 - TESC DETAILS AND NOTES C2.3 - TESC DETAILS C3.0 – SITE PLAN C4.0 - GRADING PLAN - NORTH C4.1 - GRADING PLAN - SOUTH C4.2 - GRADING NOTES AND DETAILS C5.0 - DRAINAGE PLAN - NORTH C5.1 - DRAINAGE PLAN - SOUTH C5.2 - DETENTION VAULT PLAN C5.3 - DETENTION VAULT CROSS SECTIONS

C5.4 - DRAINAGE NOTES AND DETAILS C5.5 - DRAINAGE DETAILS C5.6 - DRAINAGE DETAILS

C5.7 – DRAINAGE DETAILS C5.8 - DRAINAGE PROFILE - CB #4 TO SDMH #1 C5.9 - DRAINAGE PROFILE - CB #3 TO SDMH #4 C6.0 - UTILITY PLAN - NORTH C6.1 - UTILITY PLAN - SOUTH

C6.2 - UTILITY NOTES AND DETAILS C6.3 - UTILITY DETAILS C6.4 - UTILITY DETAILS

C6.5 - UTILITY DETAILS C6.6 - SEWER PROFILE - BUILDING & TRASH ENCLOSURE C6.7 - SEWER PROFILE - CANOPY & CAR WASH C7.0 - CONSTRUCTION DETAILS

C7.1 - CONSTRUCTION DETAILS C7.2 - CONSTRUCTION DETAILS 30' STORMWATER-SANITARY-WATERMAIN C7.3 - CONSTRUCTION DETAILS C8.0 - S MERIDIAN ST. - PLAN OVER PROFILE

C8.1 - RIGHT-OF-WAY GRADING DETAILS C8.2 - 15TH AVE. SE - DRIVEWAY PLAN C8.3 - RIGHT-OF-WAY DETAILS

1 OF 2 - ALTA & NSPS LAND TITLE SURVEY 2 OF 2 - ALTA & NSPS LAND TITLE SURVEY

<u> ANDSCAPE:</u> L1 - LANDSCAPE PLAN L2 - LANDSCAPE NOTES AND PLANT SCHEDULE L3 - LANDSCAPE DETAILS L4 - IRRIGATION PLAN

APPLICANT/DEVELOPER

BP FUELS, NA P.O. BOX 696049

L5 - IRRIGATION DETAILS

L6 - IRRIGATION DETAILS

SAN ANTONIO, TX 78269-9931 CONTACT: RANDALL ARNOLD

ENGINEER/SURVEYOR

BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. SOUTH KENT, WA 98032

TEL: (425) 251-6222

FAX: (425) 251-8782 CONTACT: CHRIS JENSEN, P.E./BRIAN GILLOOLY, P.L.S.

ARCHITECT

BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. SOUTH KENT. WA 98032

TEL: (425) 251-6222 FAX: (425) 251-8782 CONTACT: DAN GOALWIN, R.A.

LANDSCAPE ARCHITECT

BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. SOUTH KENT, WA 98032 TEL: (425) 251-6222

FAX: (425) 251-8782 CONTACT: JEFF VARLEY, R.L.A.

GEOTECHNICAL ENGINEER

KRAZAN & ASSOCIATES, INC. 825 CENTER STREET, STE A TACOMA, WASHINGTON 98409 PHONE: (253) 939-2500 CONTACT: VIJAY CHAUDARY

9TH AVE SW **a** 10TH AVE SE BLUE RIBBON AVE 13TH AVE SE 14TH AVE SE SITE 15TH AVE SE **VICINITY MAP (N.T.S.)**

SURVEY INFORMATION

HORIZONTAL DATUM - BASIS OF BEARINGS:

NAD 83/2011 WASHINGTON STATE COORDINATE SYSTEM, SOUTH ZONE, ESTABLISHED BY GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK. THE BASIS OF BEARINGS IS N 00°33'46"E BETWEEN THE FOUND 2" BRASS DISK AT THE INTERSECTION OF S MERIDIAN ST. & 15TH AVE SW AND THE FOUND 2"IRON PIPE W/TACK IN MONUMENT CASE AT THE INTERSECTION OS S. MERIDIAN ST. & THE ON/OFF RAMP TO SR 512.

VERTICAL DATUM FOR THIS SURVEY IS NAVD88 ESTABLISHED FROM WSDOT MONUMENT ID NO. 247. ELEVATION = 80.449 (NAVD88)

LOT AREA 52,078± SF (1.20± AC)

1402 S. MERIDIAN, PUYALLUP, WA 98371

TAX PARCEL NUMBER

773000-028-1 & 773000-028-8: TITLE PARCEL A 773000-003-1 & 773000-002-1: TITLE PARCEL B

PIERCE COUNTY SHORT PLAT OF MERIDIAN CENTER - AFN 77-315 (1977) PLAT OF SOURWINE'S ACRE LOTS - VOL 8 PLATS, PAGE 10 (1905)

PIERCE COUNTY SHORT PLAT - AFN 8706010381 (1987) WSDOT SR 512 96TH ST TO JCT. SR 167, DATED MAY 23, 1968

DATE OF SURVEY:

THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON MARC 22, 2022. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THI PROJECT IN MARCH OF 2022.

FLOOD INFORMATION:

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INFORMATION: FIRM (FLOOD INSURANCE RATE MAP) MAP NO. 53053C0341E PANEL 341 OF 1375, DATED MARCH 7, 2017. THE SUBJECT PROPERTY IS IN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

ZONING INFORMATION:

(A ZONING REPORT WAS NOT FURNISHED FOR THIS SITE)

LEGAL DESCRIPTION (PER ABOVE REFERENCED TITLE REPORT)

PARCEL A: (773000-028-1 & 773000-028-8)

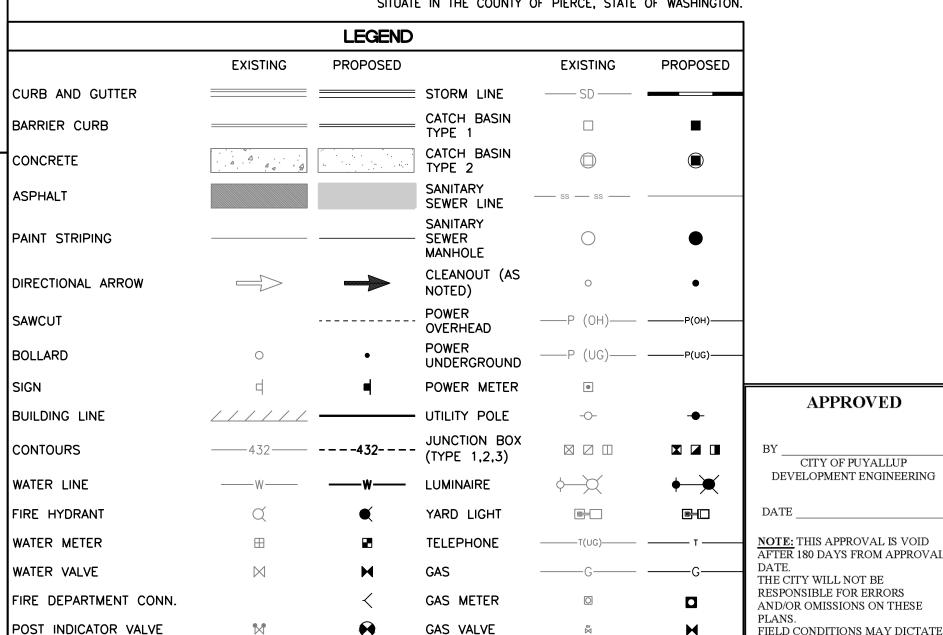
LOT 1 AND THE NORTH 15 FEET OF THE EAST 178.33 FEET OF "COMMON ACCESS TRACT A OF PIERCE COUNTY SHORT PLAT RECORDED UNDER RECORDING NO. 77-315, RECORDS OF PIERCE COUNTY WASHINGTON, FORMERLY BEING DESCRIBED AS THE NORTH 161.5 FEET OF THE WEST 178.33 FEET OF THE EAST 188.33 FEET OF LOT 20, SOURWINE'S ACRE LOTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 10, RECORDS OF PIERCE COUNTY, WASHINGTON; TOGETHER WITH THAT PORTION OF 14TH AVENUE SW, VACATED BY ORDINANCE NO. 2304

ABUTTING THEREON AND ATTACHED THERETO, RECORDED UNDER RECORDING NO. 920604038 RIGHTS TO USE THAT PORTION OF THE WITHIN DESCRIBED PROPERTY LYING WITHIN COMMON ACCESS TRACT "A" OF SIDE SHORT PLAT, FOR INGRESS, EGRESS, AND INSTALLATION AND MAINTENANCE OF UTILITIES, AS SET FORTH AND DELINEATED ON PIERCE COUNTY SHORT PLAT

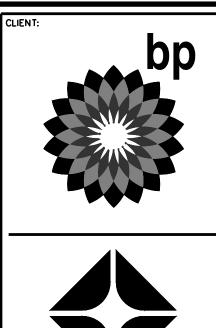
EXCEPT ANY PORTION LYING WITHIN PARCEL A ABOVE PARCEL A2:

AN EASEMENT FOR INGRESS AND EGRESS AS SET FORTH IN DOCUMENTS ENTITLED "STATUTORY WARRANTY DEED" AS RECORDED UNDER RECORDING NUMBERS 2741876 AND 2792268. PARCEL B: (773000-003-1 & 773000-002-1) LOT 2, SOURWINE'S ACRE LOTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 10, RECORDS OF PIERCE COUNTY, WASHINGTON; EXCEPT THAT PORTION LYING WITHIN STATE HIGHWAY NO. SR-512, 96TH STREET TO JUNCTION

TOGETHER WITH THAT PORTION OF 14TH AVENUE SW, VACATED BY ORDINANCE NO. 2304 ABUTTING THEREON AND ATTACHED THERETO, RECORDED UNDER RECORDING NO. 9206040385. SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.



PROPERTY LINE







Consulting Engineers, Inc

18215 72nd Avenue South Kent. WA 98032 425.251.6222 barghausen.com

	NO.	DATE	REVISION	DESCRIPTION
	2			
	3			
СН	4			
lIS	<u>\(\) \</u>			
	6			
	<i>∕</i> 7			
	8			
	9			
	10			
	\triangle			
	12			
	SEAL:			
, ,		بعد	EX WHI	•
		Je A	EX WHITE WASHI	E. C.
	1	1 (X)	A Silver	
]	5	FEIN	The
85.		200	21036777	

PEG/STERED LE 10/4/2

DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm FUEL CANOPY w/ 6 MPD's

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

SITE ADDRESS:

FACILITY #TBD

P REPM: LIANCE PM: 21730

COVER SHEET

HORIZONTAL CONTROL NOTE: CONTRACTOR SHALL HAVE ALL PROPERTY LINES, CURB, SIDEWALK, STRUCTURES, CONCRETE PADS AND ANY

OTHER ABOVE GROUND PERMANENT STRUCTURE DEPICTED ON THESE PLANS STAKED FOR CONSTRUCTION BY A LICENSED SURVEYOR. LICENSED SURVEYOR SHALL STAKE ALL ITEMS USING COORDINATE GEOMETRY (RECTIFIED TO SITE CONTROL) CONTAINED IN CAD DRAWING FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETRIEVE LATEST CAD FILES FROM BARGHAUSEN CONSULTING ENGINEERS INC., REFLECTING ANY ISSUED PLAN REVISIONS. BARGHAUSEN CONSULTING ENGINEERS SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

MONUMENT PROTECTION NOTE:

CONTRACTOR SHALL FIELD LOCATE ALL MONUMENTS WITHIN THE AREA OF DISTURBANCE PRIOR TO CONSTRUCTION AND PROTECT FROM DISTURBANCE/DESTRUCTION TO THE MAXIMUM EXTENT FEASIBLE. IF IT IS NECESSARY TO REMOVE OR REPLACE A MONUMENT DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION HAVING AUTHORITY (RCW 58.24.040) AND BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES PRIOR TO DISTURBANCE, DESTRUCTION, OR RELOCATION (WAC 332-120). APPLICATIONS MUST BE COMPLETED BY A REGISTERED LAND SURVEYOR AND MAY BE OBTAINED FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES:

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

- PUBLIC LAND SURVEY OFFICE 1111 WASHINGTON STREET S.E.
- P.O. BOX 47060

(206) 902-1190

OLYMPIA, WASHINGTON 98504-7060

UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED, OR DESTROYED THAT ARE ABLE TO BE REPLACED, SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENTS OF SAID MONUMENTATION SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITY PROTECTION NOTE:

APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THESE PLANS. CONTRACTOR TO COORDINATE WITH PURVEYOR AND USE EXTREME CAUTION WHEN EXCAVATING ON-SITE, UNTIL EXISTING GAS AND POWER SERVICE LOCATIONS ARE CONFIRMED. CONTRACTOR TO ORDER INDEPENDENT UTILITY LOCATES (INCLUDING GAS AND POWER) FOR THE FULL SCOPE OF WORK PRIOR TO CONSTRUCTION OR ANY GROUND DISTURBING ACTIVITIES.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR. THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. **Dial 81**′

AREA TO BE DISTURBED = 1.28 AC EARTHWORK CALCULATIONS SITE PREP: SITE PREP: 3,200 CY **UST EXCAVATION:** 1,000 CY VAULT EXCAVATION: 3,200 CY TOTAL: 7,400 CY

ESTIMATED EARTHWORK QUANTITIES:

CUT: 7,400 CY (EXPORT)

| FILL: 3,600 CY (IMPORT)

ESTIMATE FOR BIDDING.

3,600 CY 3,600 C TOTAL AREA EARTHWORK QUANTITIES ARE APPROXIMATE AND HIGHLY DEPENDENT ON SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION. TOTAL DOES NOT ASSUME RE-USE OF EXISTING SOILS. CONTRACTOR SHOULD PERFORM INDEPENDENT

15TH AVE SW

ROW CENTERLINE

COVER SHEET

ARCO ampm PUYALLUP

SEC. 33, TWN. 20 N, RGE. 4 E, W.M.

CITY OF PUYALLUP, PIERCE COUNTY

3400 ARCO

AM/PM

3.349 S.F.

ELECTRIC EASEMENT -

ૂંS15'56'20"W 3.7

S0'33'46"W 110.90'-

AFN 9207280564

EXCEPTION NO. 34

CANOPY W/ 6

24'x48'

CAR WASH

NO KNOWN ADDRESS

(LAND USE - GENERAL

COMMERCIAL)

AFN 2872449

BODY TALK, INC.

1420 S MERIDIAN, PUYALLUP

TAX PARCEL NO. 7730000310

(LAND USE - GENERAL

COMMERCIAL)

N89°58'03"W 1335.09'

ON-SITE (AFTER DEDICATION)

PROPOSED IMPERVIOUS SURFACES

- 30' INGRESS/EGRESS & UTILITY EASEMENT

1410 S MERIDIAN, PUYALLUP.

WA 98371

TAX PARCEL NO. 7730000300

(LAND USE - GENERAL

COMMERCIAL)

√N89°58'15"W 178.19

12' BUILDING SETBACK

SCALE: 1"=40'

N89'57'35"W 57.36"

30' STORMWATER-

EXCEPTION NO. 31

SANITARY-WATERMAIN

ELECTRIC EASEMENT

EASEMENT AFN 9206040383

MOTEL PUYALLÜF

TAX PARCEL NO. 7730000282

1412 S MERIDIAN, PUYALLUP

WA 98371

(LAND USE - GENERAL

COMMERCIAL)

AFN 2792268

10' ELEC. EASEMENT

EXCEPTION NO. 25

20' INGRESS/EGRESS

EXCEPTION NO. 26

TAX PARCEL NO

7730000283

NO KNOWN

ADDRESS

(LAND USE -

GENERAL

COMMERCIAL)

205-201 15TH

AVE SW,

PUYALLUP, WA

9837

LAND USE

GENERAL

COMMERCIAL)

TAX PARCEL I 7730000321

EASEMENT

AFN 2741876

AFN 9207280563

EXCEPTION NO. 33

ROOF CANOPY (COLLECTED) CURBS/ASPHALT/CONCRETE (COLLECTED) 26,620 SF (0.611 AC) 12,050 SF (0.277 AC) PROPOSED LANDSCAPING TOTAL AREA OFFSITE (ADJACENT PROPERTY) REPLACED ASPHALT DRIVEWAY SECTION (COLLECTED) 741 SF (0.017 AC) EXISTING IMPERVIOUS SURFACE (COLLECTED, BYPASS TRADE-OFF) 2,284 SF (0.052 AC) 3,025 SF (0.069 AC) NOTE: WWHM CALCS ONLY INCLUDE AREA REQUIRED TO PROVIDE BYPASS TRADE OFF **RIGHT-OF-WAY** (AFTER DEDICATION) ROADWAY/SIDEWALK/CURB & GUTTER (BYPASS) 1,591 SF (0.037 AC) REVERSE SLOPE SIDEWALK (COLLECTED) 1,824 SF (0.042 AC) DRIVEWAY (COLLECTED) 123 SF (0.003 AC) 2,521 SF (0.058 AC) PROPOSED LANDSCAPE 6,059 SF (0.139 AC)

STORMWATER IMPERVIOUS AREA TABLE 36,726 SF (0.843 AC) 10,106 SF (0.232 AC) 48,776± SF (1.12± AC) | SAWCUT

48,776 SF (1.12 AC)

45,936 SF (1.05 AC)

2,840 SF (0.065 AC)

48,776 SF (1.12 AC)

36,726 SF (0.843 AC)

12,050 SF (0.277 AC)

— × —

PEDESTRIAN ACCESS PATH

FENCE

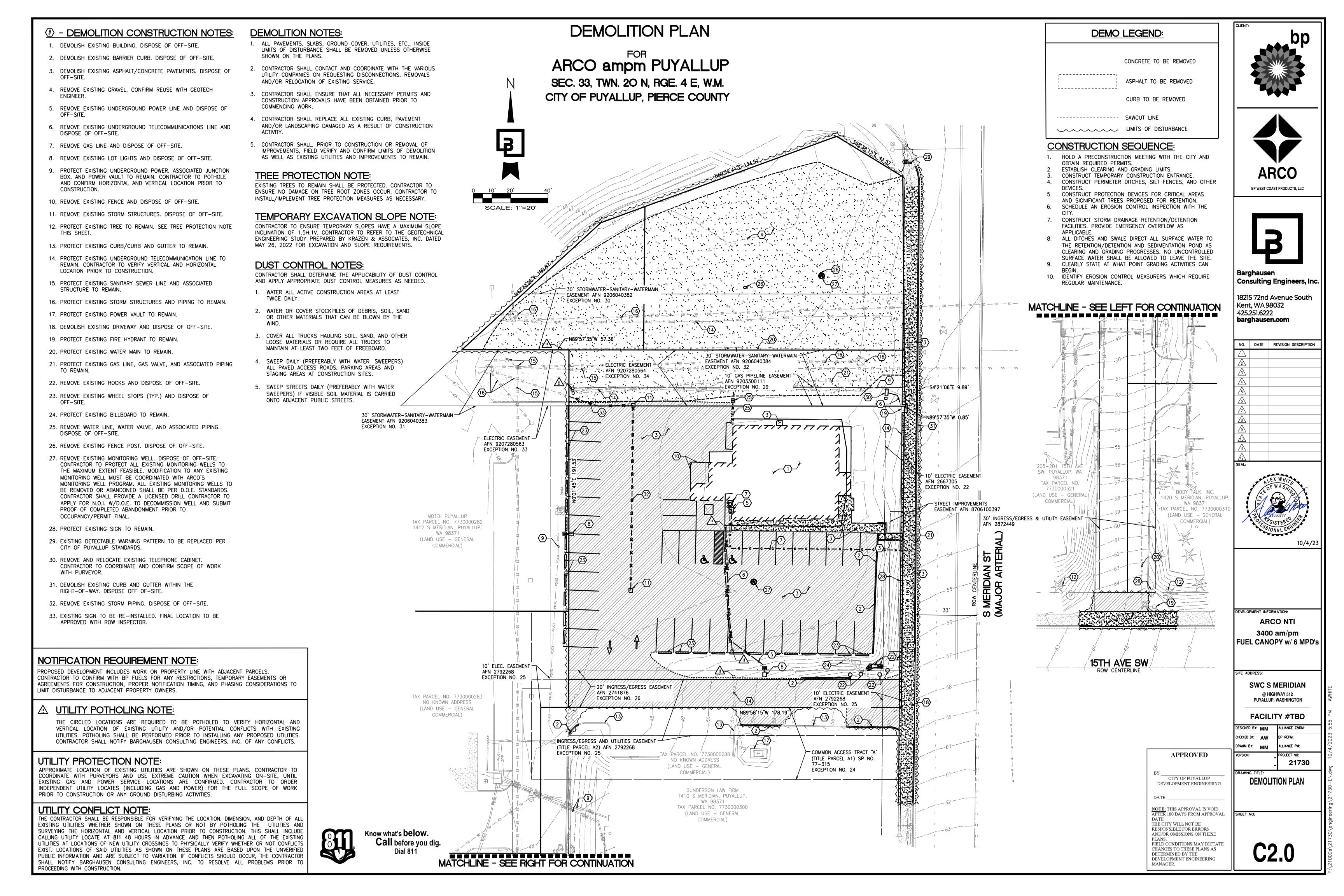
APPROVED CITY OF PUYALLUP DEVELOPMENT ENGINEERING NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

DETERMINED BY THE

MANAGER.



- TESC CONSTRUCTION NOTES: INSTALL SILTATION FENCE PER CITY OF PUYALLUP STANDARD DETAIL INSPECTOR. SEE DETAIL 5/C2.2.

- 02.03.02 AROUND PERIMETER OF SITE TO PREVENT SILT-LADEN RUNOFF FROM LEAVING SITE. ADJUST LOCATION AS DIRECTED BY THE CITY
- INSTALL CATCH BASIN INSERTS IN ALL CATCH BASINS LOCATED ON-SITE PER BMP C220-INLET PROTECTION OF THE 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (2019 SWMMWW). CONTRACTOR TO ALSO INSTALL CATCH BASIN INSERTS IN ANY CATCH BASIN LOCATED WITH 500' OF THE JOB SITE. SEE DETAIL 3/C2.3.
- APPROXIMATE LOCATION OF CONSTRUCTION STAGING AREA. CONTRACTOR TO USE THIS AREA FOR TEMPORARY STOCKPILE STORAGE AND CONCRETE WASHOUT PER 2019 SWMMWW BMP C154-CONCRETE WASHOUT AREA, SEE DETAIL 4/C2.3. ADJUST SIZE AND LOCATION OF AREA AS NEEDED DURING CONSTRUCTION.
- INSTALL CONSTRUCTION ENTRANCE PER CITY OF PUYALLUP STANDARD DETAIL 05.01.01. ADJUST LOCATION AS NEEDED OR AS DIRECTED BY THE CITY INSPECTOR. SEE DETAIL 2/C2.2.
- INSTALL TEMPORARY CONSTRUCTION FENCE AND SITE ACCESS GATE (6' HIGH-CHAIN LINK WITH LOCKING DEVICE) AT TEMPORARY CONSTRUCTION ENTRANCE. SEE DETAIL 1/C2.2.
- 6. APPROXIMATE LIMITS OF DISTURBANCE.
- APPROXIMATE LOCATION OF TEMPORARY SEDIMENT TRAP PER 2019 SWMMWW BMP C240. MINIMUM REQUIRED SURFACE AREA FOR SEDIMENT TRAP IS 1548 SF. CONTRACTOR TO ENSURE SEDIMENT TRAP LENGTH TO WIDTH RATIO OF 3:1. SEE DETAIL 1/C2.3. TOP ELEVATION: 44.7 BOTTOM ELEVATION: 47.7
- 8. APPROXIMATE LOCATION OF TEMPORARY "V" DITCH. SEE DETAIL 2/C2.2.
- 9. APPROXIMATE LOCATION OF TEMPORARY ROCK CHECK DAM, PER 2019 SWMMWW BMP C207. SEE DETAIL 2/C2.3.

TREE PROTECTION NOTE:

EXISTING TREES TO REMAIN SHALL BE PROTECTED. CONTRACTOR TO ENSURE NO DAMAGE ON TREE ROOT ZONES OCCUR. CONTRACTOR TO INSTALL/IMPLEMENT TREE PROTECTION MEASURES AS NECESSARY.

EROSION CONTROL NOTES:

- ALL NECESSARY EQUIPMENT AND MATERIALS SHALL BE AVAILABLE ON SITE TO FACILITATE RAPID INSTALLATION OF EROSION AND SEDIMENT CONTROL BMPS WHEN RAIN IS IMMINENT.
- 2. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
- ADEQUATE EROSION AND SEDIMENT CONTROL AND PERIMETER PROTECTION BEST MANAGEMENT PRACTICE MEASURES MUST BE INSTALLED AND MAINTAINED.
- CONTRACTOR TO IMPLEMENT SLOPE STABILIZATION MEASURES AS NECESSARY FOR EXPOSED SLOPES DURING CONSTRUCTION. MEASURES CAN INCLUDE TEMPORARY AND PERMANENT SEEDING PER

TEMPORARY EXCAVATION SLOPE NOTE:

CONTRACTOR TO ENSURE TEMPORARY SLOPES HAVE A MAXIMUM SLOPE INCLINATION OF 1.5H:1V. CONTRACTOR TO REFER TO THE GEOTECHNICAL ENGINEERING STUDY PREPARED BY KRAZEN & ASSOCIATES, INC. DATED MAY 26, 2022 FOR EXCAVATION AND SLOPE REQUIREMENTS.

DUST CONTROL NOTES:

CONTRACTOR SHALL DETERMINE THE APPLICABILITY OF DUST CONTROL AND APPLY APPROPRIATE DUST CONTROL MEASURES AS NEEDED.

- 1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- WATER OR COVER STOCKPILES OF DEBRIS, SOIL, SAND OR OTHER MATERIALS THAT CAN
- 3. BE BLOWN BY THE WIND.
- 4. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 5. SWEEP DAILY (PREFERABLY WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- 6. SWEEP STREETS DAILY (PREFERABLY WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.

___ UTILITY POTHOLING NOTE:

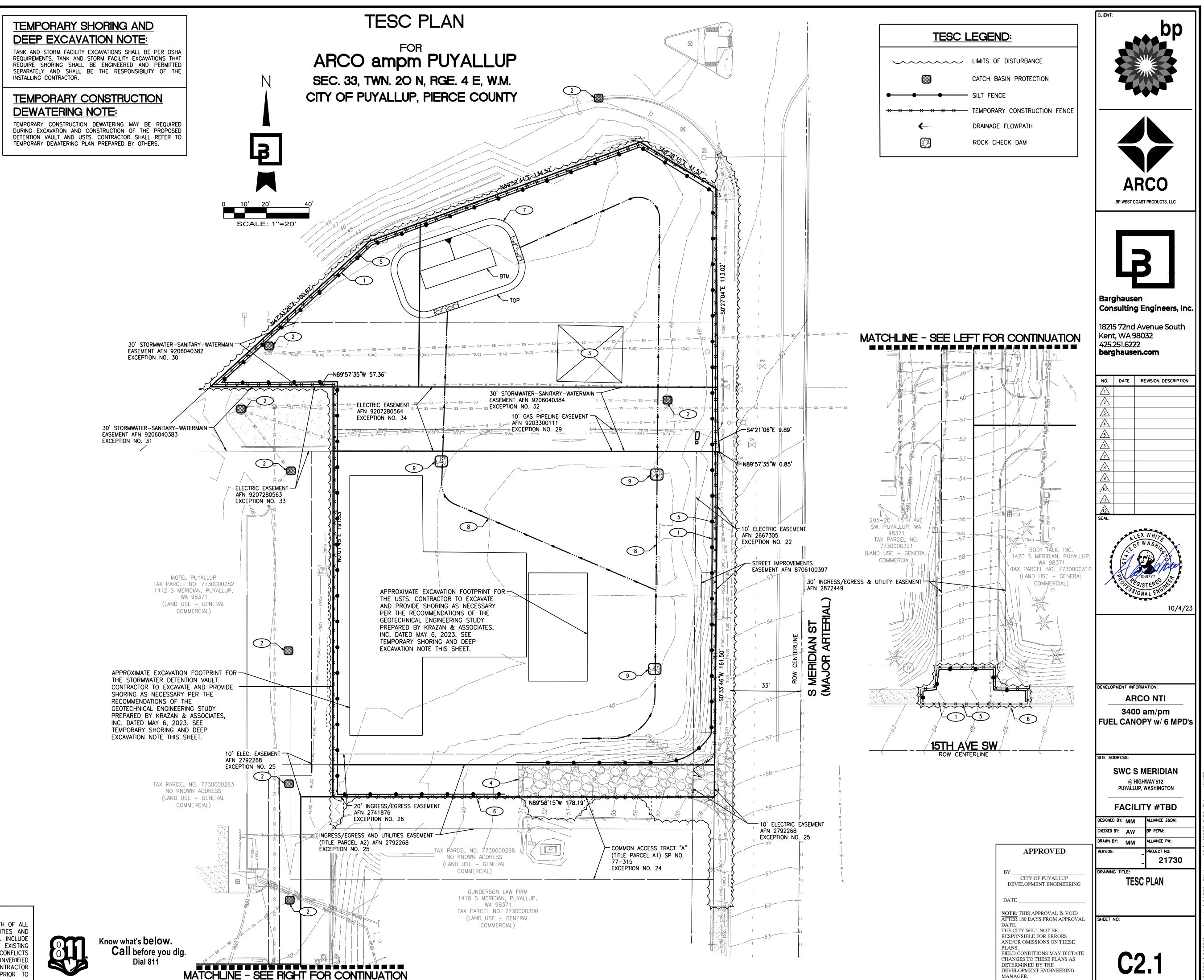
THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

UTILITY PROTECTION NOTE:

APPROXIMATE LOCATION OF EXISTING GAS SERVICE IS SHOWN ON THESE PLANS. CONTRACTOR TO COORDINATE WITH PURVEYOR AND USE EXTREME CAUTION WHEN EXCAVATING ON-SITE, UNTIL EXISTING GAS AND POWER SERVICE LOCATIONS ARE CONFIRMED. CONTRACTOR TO ORDER INDEPENDENT UTILITY LOCATES (INCLUDING GAS AND POWER) FOR THE FULL SCOPE OF WORK PRIOR TO CONSTRUCTION OR ANY GROUND DISTURBING ACTIVITIES.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST, LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

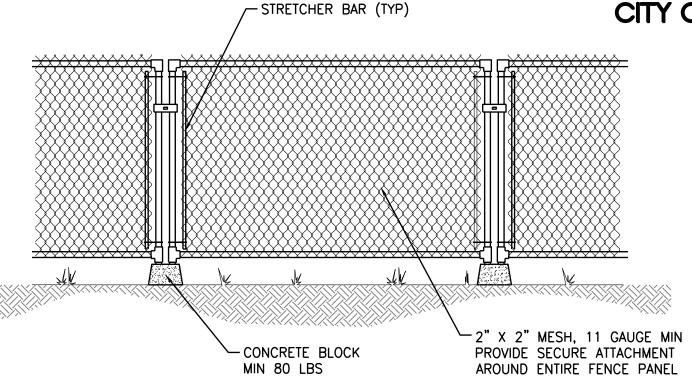


CITY OF PUYALLUP - GRADING, EROSION AND SEDIMENTATION CONTROL NOTES:

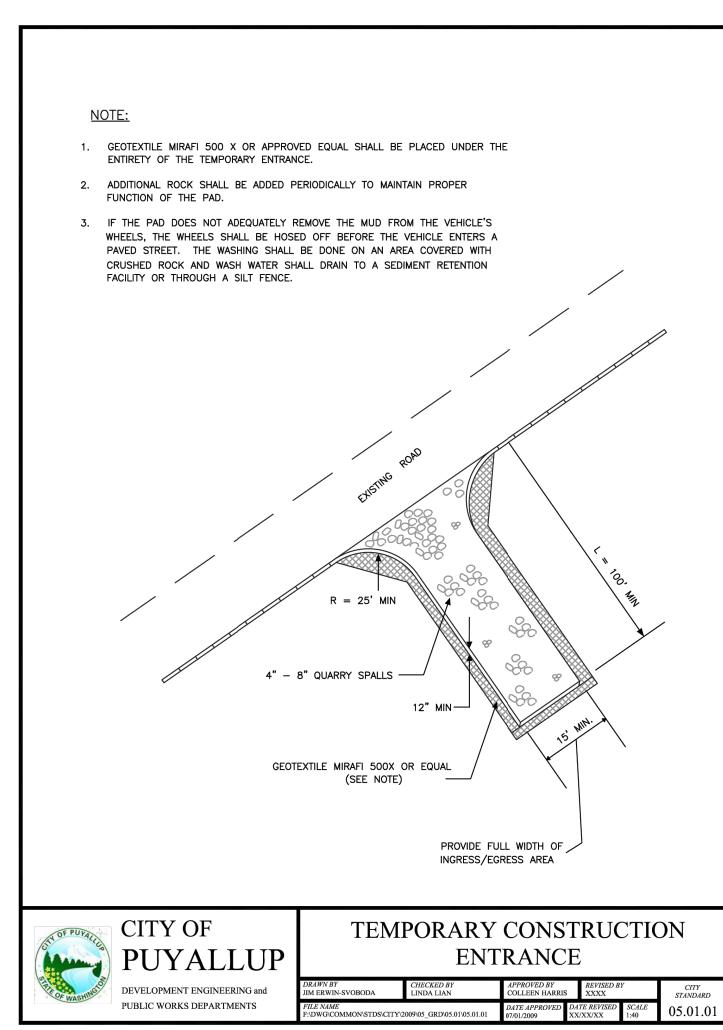
- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING 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.
- 2. 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.
- 3. 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").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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 RESPONSIBILITY OF THE PERMITTEE.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.

TESC DETAILS AND NOTES

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



1 TEMPORARY CONSTRUCTION FENCE C2.2 SCALE: NTS



2 STABILIZED CONSTRUCTION ACCESS
C2.2 SCALE: NTS

1. 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.

2. 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 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 PERMITEE.

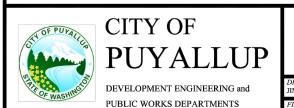
3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE 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.

4. 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.

5. 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 INCLUSVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.

6. 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.

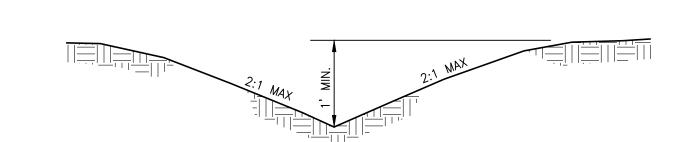
7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.



C2.2 / SCALE: NTS

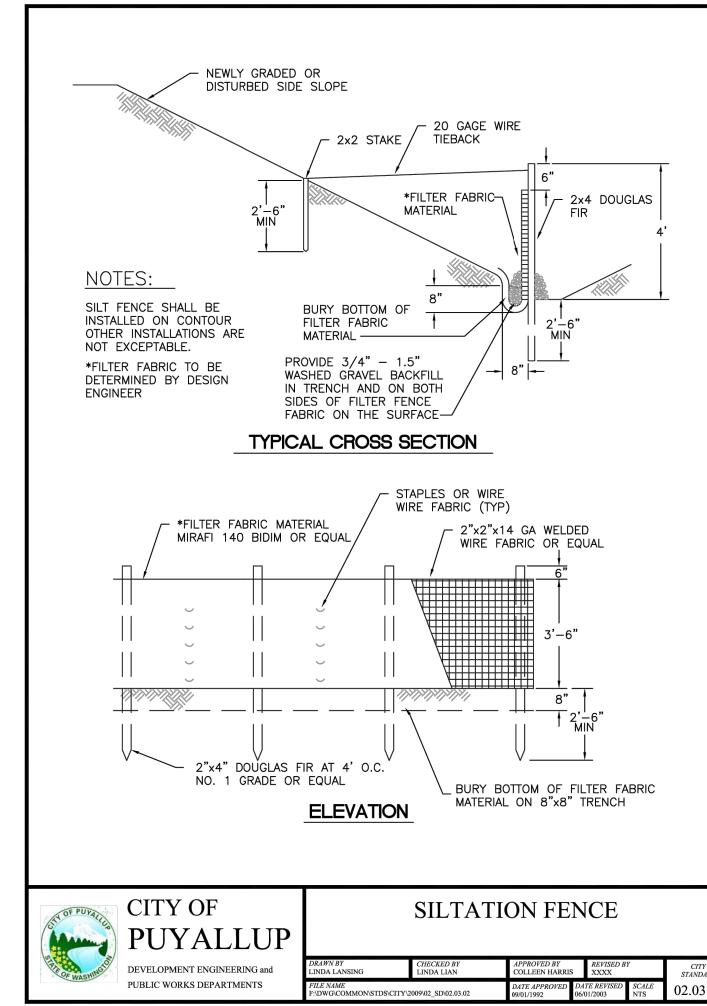
CITY OF GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES

BY CHECKED BY APPROVED BY COLLEEN HARRIS LINDA LIAN COLLEEN HARRIS LINDA LIAN MECOMMON\STDS\CITY\2009\05_GRD\05.01\05.02.01 DATE APPROVED 07/01/2009 DATE REVISED SCALE 11/18/2014 1:1



3 CITY OF PUYALLUP NOTES

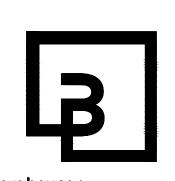
TEMPORARY "V" DITCH
C2.2 SCALE: NTS



5 SILTATION FENCE
C2.2 SCALE: NTS

client:





18215 72nd Avenue South Kent, WA 98032

425.251.6222

barghausen.com

 NO.
 DATE
 REVISION DESCRIPTION

 1\hlimits
 2\hlimits

 3\hlimits
 4\hlimits

 5\hlimits
 6\hlimits

 7\hlimits
 8\hlimits

 9\hlimits
 11\hlimits

 \$\frac{1}{2}\hlimits
 \$\frac{1}{2}\hlimits

 \$\frac{1}{2}\hlimits
 \$\frac{1}{2}\hlimits



10/4/2

ARCO NTI
3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN

PUYALLUP, WASHINGTON
FACILITY #TBD

@ HIGHWAY 512

ESIGNED BY: MM ALLIANCE Z&DM:
HECKED BY: AW BP REPM:
RAWN BY: MM ALLIANCE PM:
ERSION:
PROJECT NO:
21730

TESC DETAILS AND NOTES

SHEET NO:

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

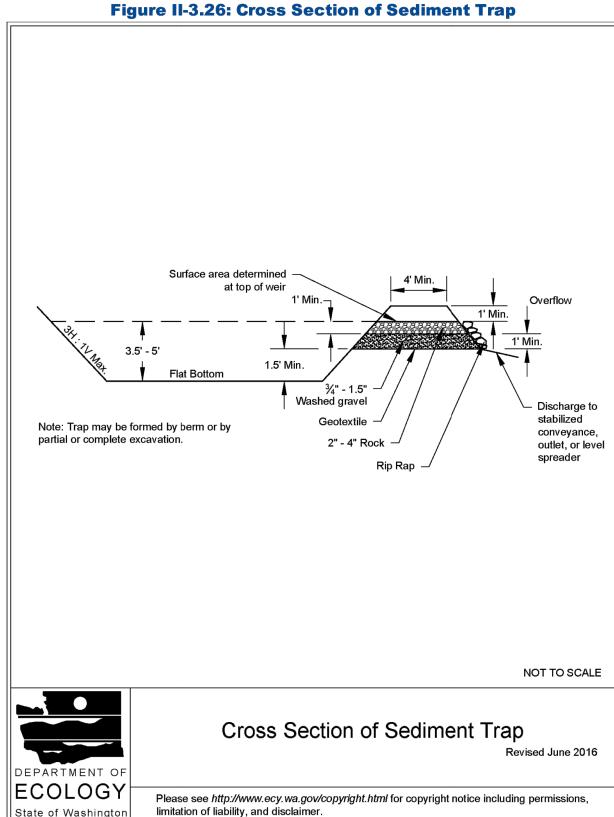
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

C2.2

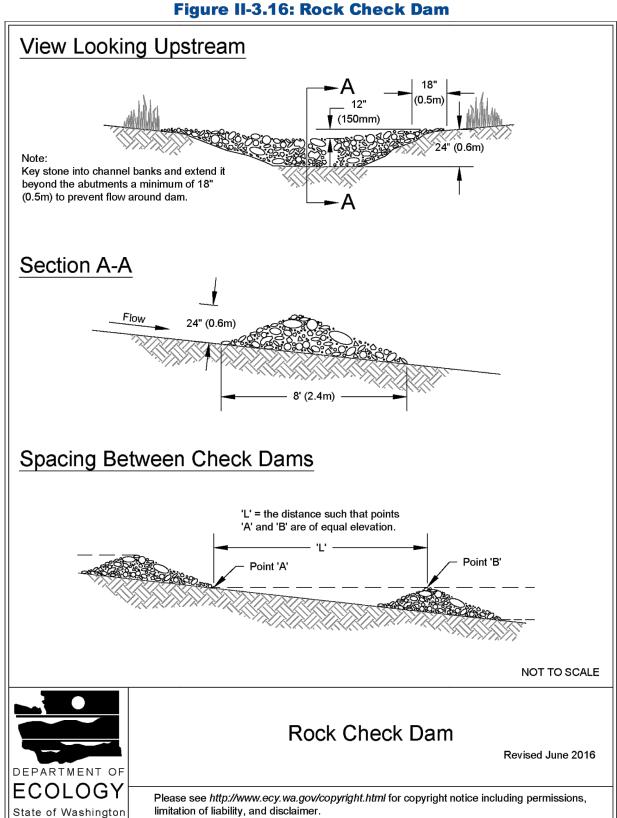
UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.





1 SEDIMENT TRAP C2.3 SCALE: NTS



ROCK CHECK DAM C2.3 SCALE: NTS

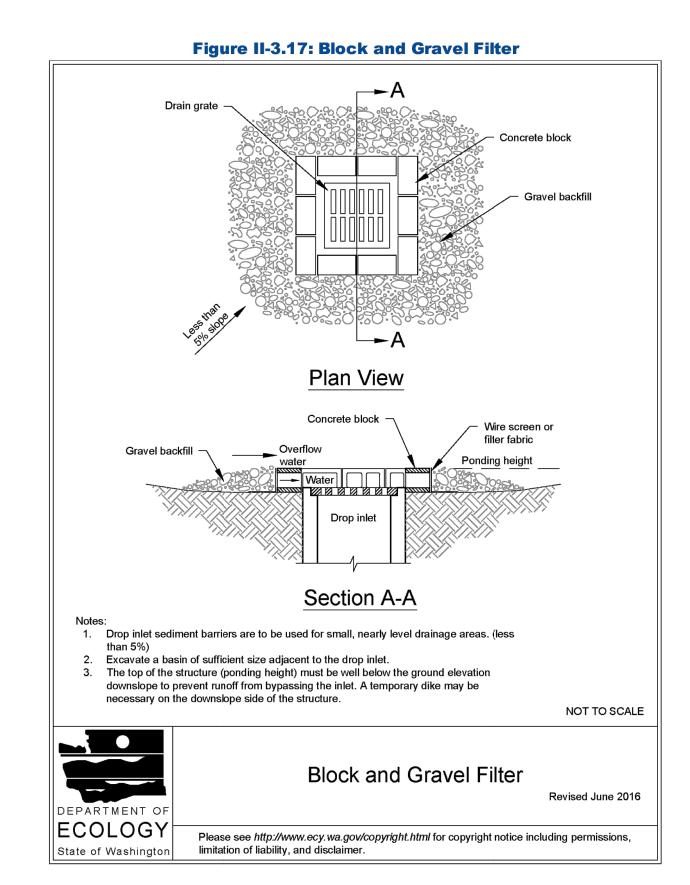
UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

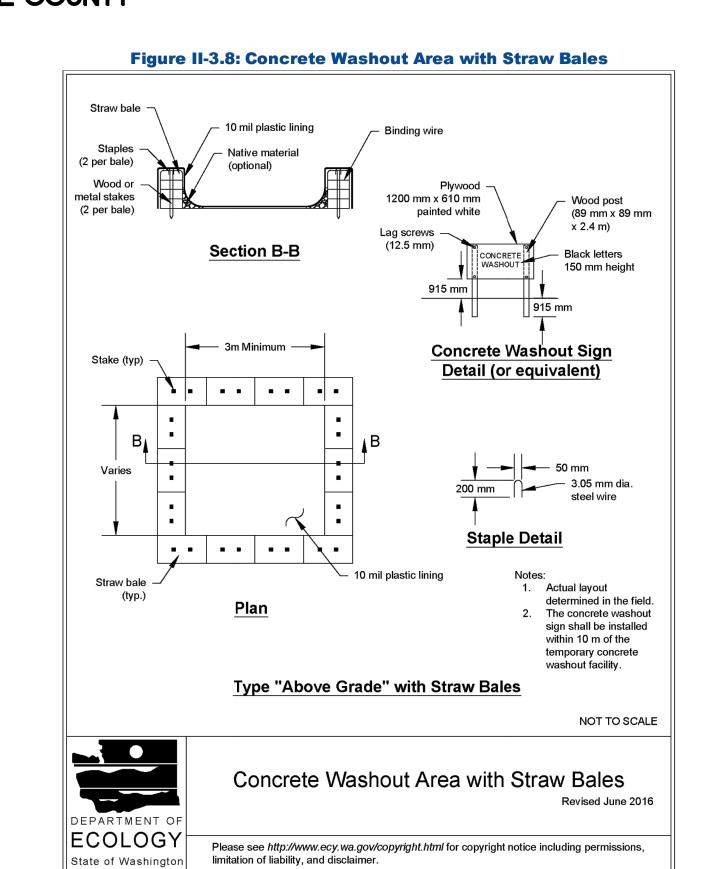


TESC DETAILS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



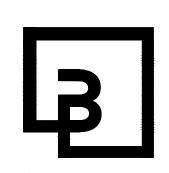
3 INLET PROTECTION



CONCRETE WASHOUT







Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
2		
3		
4		
5		
6		
<u> </u>		
8		
<u>\</u>		
10		
⟨ <u>=</u>		
12		
SEAL:		



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm FUEL CANOPY w/ 6 MPD's

> SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

_	TESC D	ETAII C
	DRAWING TITLE:	
	VERSION:	PROJECT NO: 21730
	DRAWN BY: MM	ALLIANCE PM:
	CHECKED BY: AW	BP REPM:

CITY OF PUYALLUP DEVELOPMENT ENGINEERING

APPROVED

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

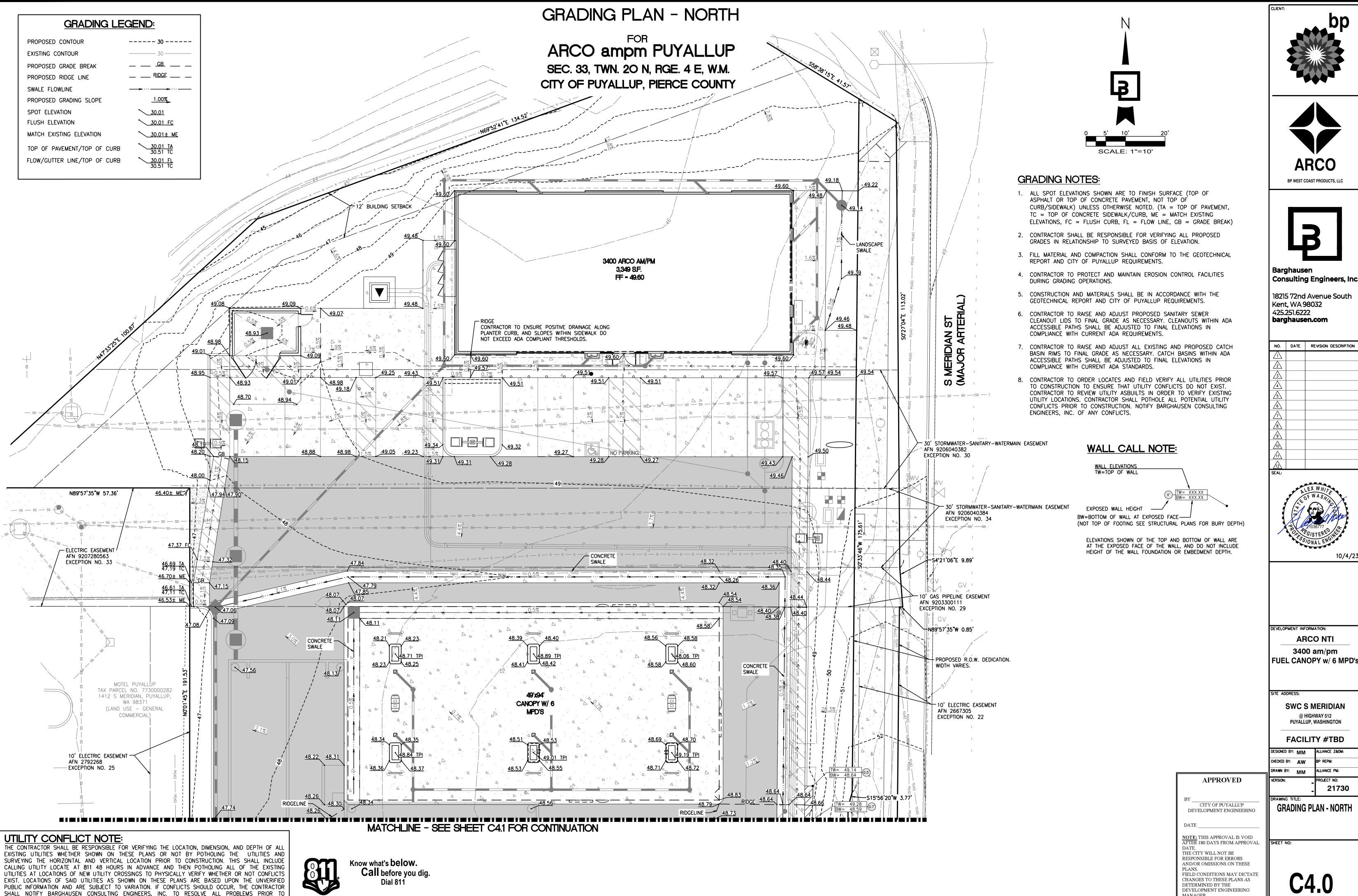
MANAGER.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

SITE ADDRESS:

1E2C DETAILS

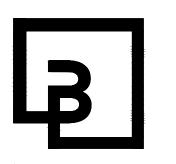
SITE PLAN **#** CONSTRUCTION NOTES: PROPOSED CONVENIENCE STORE. CONFIRM ALL DIMENSIONS WITH ARCHITECTURAL PLANS. SEE ARCHITECTURAL PLANS FOR DETAILS. (1) MEASUREMENT FROM NORTHWEST PROPERTY CORNER TO ARCO ampm PUYALLUP NORTHWEST CORNER OF C-STORE. C-STORE IS NOT PROPOSED CAR WASH, CONFIRM ALL DIMENSIONS WITH ARCHITECTURAL PARALLEL TO NORTHWEST PROPERTY LINE. DIMENSIONS PLANS. SEE ARCHITECTURAL PLANS FOR DETAILS. FROM NORTHWEST PROPERTY CORNER ARE ONLY ACCURATE TO BUILDING CORNERS AS SHOWN. PROPOSED LOCATION OF FUEL CANOPY. CONFIRM ALL DIMENSIONS SEC. 33, TWN. 20 N, RGE. 4 E, W.M. WITH THE ARCHITECTURAL AND FUEL PLANS. SEE ARCHITECTURAL (2) MEASUREMENT FROM NORTHWEST PROPERTY CORNER TO PLANS AND FUEL PLANS FOR DETAILS. CITY OF PUYALLUP, PIERCE COUNTY CENTER OF CANOPY COLUMNS. CANOPY IS NOT PARALLEL TO WEST PROPERTY LINE. DIMENSIONS FROM NORTHWEST . PROPOSED 25K AND 22K SPLIT UNDERGROUND STORAGE TANKS. SEE PROPERTY CORNER ARE ONLY ACCURATE TO CENTER OF FUEL PLANS FOR DETAILS. CANOPY COLUMNS AS SHOWN. 5. PROPOSED TRASH ENCLOSURE AND CONCRETE TRASH ENCLOSURE (3) MEASUREMENT FROM SOUTHWEST PROPERTY CORNER TO SLAB. SEE ARCHITECTURAL PLANS FOR DETAILS. FINISH FACE OF CAR WASH. CAR WASH IS NOT PARALLEL TO SOUTH PROPERTY LINE. DIMENSIONS FROM SOUTHWEST 6. PROPOSED ON-SITE ASPHALT PAVEMENT. SEE DETAIL 1/C7.0. PROPERTY CORNER ARE ONLY ACCURATE TO CAR WASH AS SHOWN. 7. PROPOSED ON-SITE CONCRETE PAVEMENT. SEE DETAIL 2/C7.0. PROVIDE EXPANSION AND CONTROL JOINTS PER SHEET C7.0. **ARCO** 8. PROPOSED BARRIER CURB. SEE DETAIL 4/C7.0. SCALE: 1"=20' 9. PROPOSED CURB AND GUTTER. SEE DETAIL 3/C7.0. BP WEST COAST PRODUCTS, LLC 10. PROPOSED CONCRETE SIDEWALK, WIDTH VARIES. SEE DETAIL 5/C7.0. 11. PROPOSED ACCESSIBLE PARKING STALL AND AISLE. SEE DETAIL 12. PROPOSED BOLLARD MOUNTED ACCESSIBLE PARKING STALL SIGNAGE. (1)3400 ARCO SEE DETAIL 2/C7.1. 13. PROPOSED PARKING STALL WITH 4" WIDE WHITE REFLECTIVE PAINT 3.349 S.F. STRIPE (TYP.). SEE DETAIL 4/C7.1. 14. PROPOSED BOLLARD (TYP.). SEE DETAIL 3/C7.2. Barghausen Consulting Engineers, Inc. 15. PROPOSED LOT LIGHT. SEE DETAIL ON-SITE PHOTOMETRIC PLANS FOR MORE DETAILS. COORDINATE ALL CONDUIT RUNS, WIRING REQUIREMENTS, ETC. WITH ELECTRICAL PLANS. SEE DETAIL 1/C7.2. 18215 72nd Avenue South Kent, WA 98032 MATCHLINE - SEE LEFT FOR CONTINUATION 16. PROPOSED AIR/WATER UNIT. SEE ARCHITECTURAL PLANS FOR DETAILS. 425.251.6222 30' STORMWATER-SANITARY-WATERMAIN barghausen.com 17. PROPOSED BICYCLE STORAGE. SEE DETAIL 4/C7.2. EASEMENT AFN 9206040382 EXCEPTION NO. 30 18. PROPOSED SEATING BENCH. SEE ARCHITECTURAL PLANS FOR DETAILS. PROPOSED R.O.W. NO. DATE REVISION DESCRIPTION DEDICATION. WIDTH 19. PROPOSED LANDSCAPING. SEE LANDSCAPE PLANS. N89'57'35"W 57.36' 30' STORMWATER-SANITARY-WATERMAIN -20. PROPOSED CONCRETE TANK FUEL SLAB. SEE FUEL PLANS FOR DESIGN. **EASEMENT AFN 9206040384** ELECTRIC EASEMENT EXCEPTION NO. 32 21. PROPOSED UNDER CANOPY CONCRETE SLAB. SEE ARCHITECTURAL AFN 9207280564 PLANS FOR DETAILS. EXCEPTION NO. 34 10' GAS PIPELINE EASEMENT **1**_35_ AFN 9203300111 EXCEPTION NO. 29 22. PROPOSED FUEL DISPENSERS WITH HOOP BOLLARDS (TYP.). SEE FUEL ₩S4°21'06"E 9.89' PLANS FOR DETAILS. 40 40.05 23. PAVEMENT MARKINGS - 4" WIDE WHITE PAINTED STRIPES @ 2' O.C/45° ANGLE. SEE DETAIL 5/C7.1. 34 30' STORMWATER-SANITARY-WATERMAIN ₩N89'57'35"W 0.85' EASEMENT AFN 9206040383 24. PROPOSED VACUUM UNIT. SEE ARCHITECTURAL PLANS FOR DETAILS. 30' INGRESS/EGRESS & UTILITY EASEMENT -EXCEPTION NO. 31 52.06' (2) AFN 2872449 ELECTRIC EASEMENT (3)49'x94' 25. PROPOSED FUTURE VAN ACCESSIBLE AND STANDARD EV CHARGING AFN 9207280563 STATION. FREEWIRE EV CHARGING STATION TO BE INSTALLED, SEE 34.07 EXCEPTION NO. 33 DETAIL 2/C7.2. 52.07'(2) 26. PROPOSED TRASH RECEPTACLE (TYP). 10' ELECTRIC EASEMENT SW, PUYALLUP, WA AFN 2667305 27. PROPOSED ACCESSIBLE PATH. REFER TO ACCESSIBLE PATH NOTE THIS EXCEPTION NO. 22 TAX PARCEL NO. 7730000321 BODY TALK, INC. 40.08 28. PROPOSED BLOCK RETAINING WALL. REFER TO STRUCTURAL (LAND USE - GENERAL 1420 S MERIDIAN, PUYALLUP ENGINEERING PLANS FOR DETAILS. S15'56'20"W 3.77' COMMERCIAL) STREET IMPROVEMENTS WA 98371 EASEMENT AFN 8706100397 TAX PARCEL NO. 77300003 29. PROPOSED ON-SITE MONUMENT SIGN. (LAND USE - GENERAL MOTEL PUYALLUP TAX PARCEL NO. 7730000282 COMMERCIAL) 30. PROPOSED TYPE 31 TIMBER POST GUARDRAIL WITH CASE 4 POST 1412 S MERIDIAN, PUYALLUP, INSTALLATION PER 1610.04(2) OF THE 2021 WSDOT DESIGN MANUAL. WA 98371 SEE DETAILS 1 AND 2/C7.3. LINETYPE DOES NOT DEPICT LOCATION OF (LAND USE - GENERAL 10/4/2 GUARDRAIL POST. FACE OF GUARDRAIL TO BE SETBACK 15-1/4" FROM COMMERCIAL) EDGE OF TRAVEL LANE. 31. PROPOSED DIRECTIONAL ARROWS. SEE DETAIL 6/C7.1. 32. PROPOSED BUS STOP BENCH PER PIERCE TRANSIT STANDARD BENCH. SEE DETAIL 6/C8.3. 33. EXISTING FIRE HYDRANT TO REMAIN. CONTRACTOR TO SAWCUT ASPHALT ON PROPERTY -LINE. PROPOSED WORK MAY ENCROACH ON 34. EXISTING ASPHALT TO REMAIN. ADJACENT PROPERTY. CONTRACTOR TO OBTAIN DEVELOPMENT INFORMATION: ALL NECESSARY PERMISSIONS OR TEMPORARY $-\stackrel{\sim}{\scriptstyle \sim}$ $\stackrel{\sim}{\scriptstyle \sim}$ $-\stackrel{\sim}{\scriptstyle \sim}$ $-\stackrel{\sim}{\scriptstyle \sim}$ $\stackrel{\sim}{\scriptstyle \sim}$ $\stackrel{\sim}{\scriptstyle \sim}$ $\stackrel{\sim}{\scriptstyle \sim}$ $\stackrel{\sim}{\scriptstyle \sim}$ 35. EXISTING GRAVEL TO REMAIN. CONSTRUCTION EASEMENTS WITH ADJACENT **ARCO NTI** PROPERTY OWNER PRIOR TO CONSTRUCTION. 36. EXISTING CURB TO REMAIN. 3400 am/pm 2 **24'x48'** - PROPOSED DRIVEWAY CAR WASH FUEL CANOPY w/ 6 MPD's EXISTING SIGN TO REMAIN 37. RESTORE GRAVEL SURFACE. RESTORATION. SEE SHEET C8.2 FOR DETAILS. 38. PROPOSED TRANSFORMER. 15TH AVE SW 10' ELEC. EASEMENT 39. EXISTING SIGN TO BE RE-SET. FINAL LOCATION TO BE APPROVED WITH AFN 2792268 SITE ADDRESS: ROW INSPECTOR. EXCEPTION NO. 25 <u>\</u>8 77.25 PROPOSED DRIVEWAY SWC S MERIDIAN 40. PROPOSED ON-SITE CONCRETE PER DETAIL 1/C5.4. 20' INGRESS/EGRESS EASEMENT RECONSTRUCTION. SEE AFN 2741876 @ HIGHWAY 512 SHEET C8.1 FOR DETAILS. TAX PARCEL NO. 7730000283 EXCEPTION NO. 26 PUYALLUP, WASHINGTON NO KNOWN ADDRESS (LAND USE - GENERAL _N89'58'15"W 178.19' COMMERCIAL) FACILITY #TBD 36 (3)101.13' · 10' ELECTRIC EASEMENT AFN 2792268 EXCEPTION NO. 25 LIANCE PM: INGRESS/EGRESS AND UTILITIES EASEMENT ACCESSIBLE PATH OF TRAVEL NOTE: TAX PARCEL "NO. 7730000288 COMMON ACCESS TRACT "A" (TITLE PARCEL A2) AFN 2792268 APPROVED NO KNOWN ADDRESS (TITLE PARCEL A1) SP NO. EXCEPTION NO. 25 WALKWAYS ALONG ACCESSIBLE ROUTES OF TRAVEL SHALL BE (LAND USE - GENERAL 21730 CONTINUOUSLY ACCESSIBLE, BE A MINIMUM OF 48" IN WIDTH (PER COMMERCIAL) EXCEPTION NO. 24 PAR REQUIREMENTS FOUND IN PROWAG), HAVE A MAXIMUM 2.0% CITY OF PUYALLUP SITE PLAN CROSS SLOPE, AND SHALL HAVE RAMPS COMPLYING WITH DEVELOPMENT ENGINEERING ACCESSIBILITY STANDARDS (SECTION 405) WHERE NECESSARY TO GUNDERSON LAW FIRM CHANGE ELEVATION AT A LONGITUDINAL SLOPE EXCEEDING 5% (1:20). 1410 S MERIDIAN, PUYALLUP. WA 98371 TAX PARCEL NO. 7730000300 NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL SHEET NO: UTILITY CONFLICT NOTE: (LAND USE - GENERAL THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL COMMERCIAL) THE CITY WILL NOT BE EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND RESPONSIBLE FOR ERRORS SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE Know what's **below**. AND/OR OMISSIONS ON THESE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING Call before you dig. UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED **Dial 811 U3.U** DETERMINED BY THE MATCHLINE - SEE RIGHT FOR CONTINUATION PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR DEVELOPMENT ENGINEERING SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO MANAGER. PROCEEDING WITH CONSTRUCTION.



PROCEEDING WITH CONSTRUCTION.



BP WEST COAST PRODUCTS, LLC



Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO. DATE REVISION DESCRIPTION



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

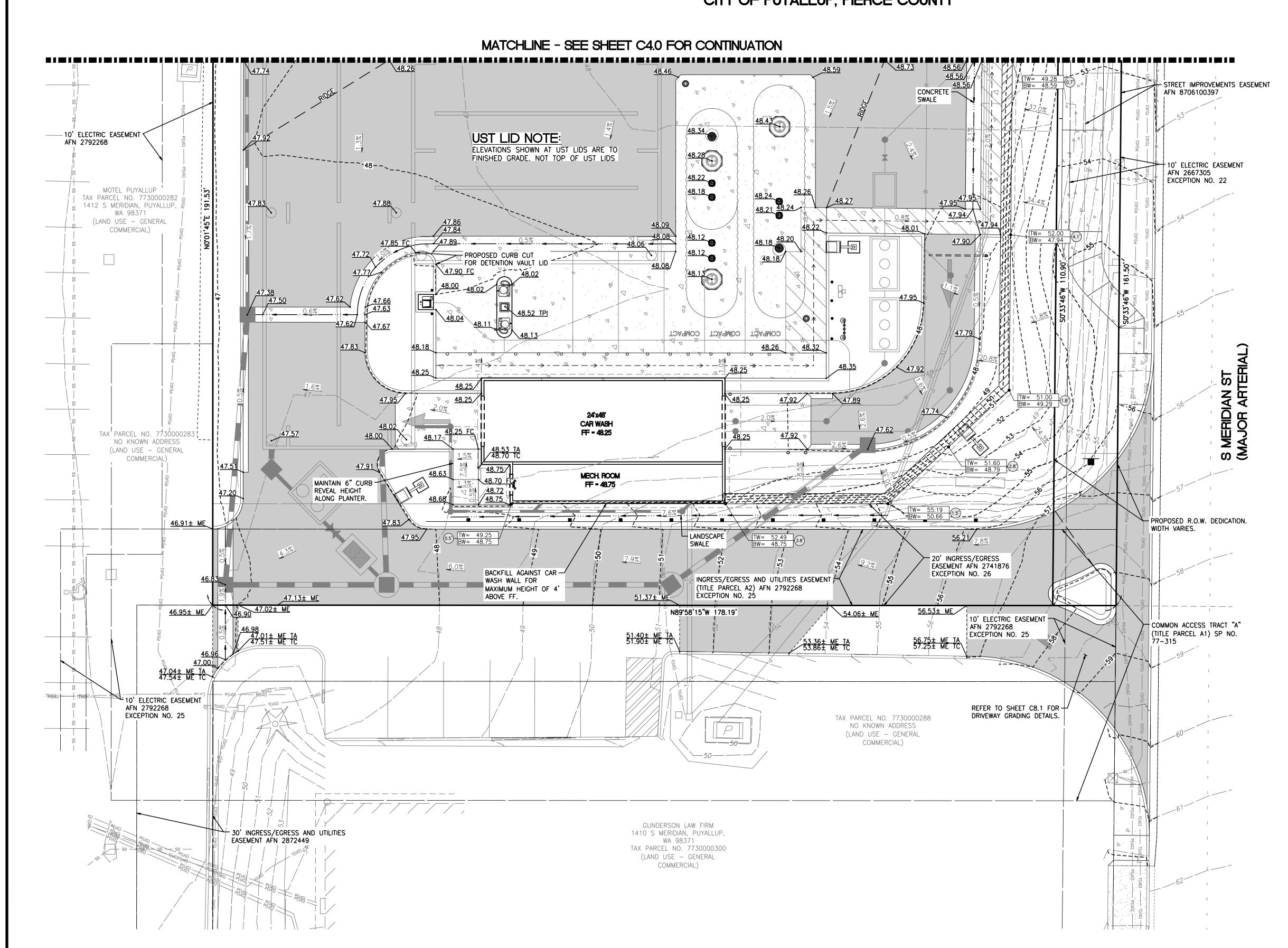
SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON FACILITY #TBD

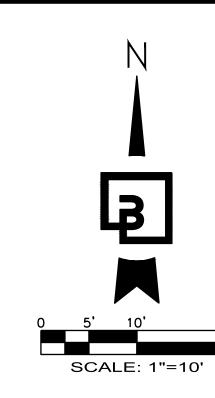
GNED BY:	MM	ALLIANCE Z&DM:
KED BY:	AW	BP REPM:
M BY:	ММ	ALLIANCE PM:
ION:	_	PROJECT NO:
	-	21730
MING TIT	LE:	

GRADING PLAN - NORTH

MANAGER.

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



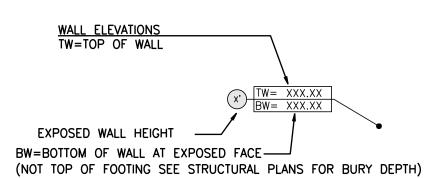


GRADING LE	GEND:
PROPOSED CONTOUR	30
EXISTING CONTOUR	30
PROPOSED GRADE BREAK	<u>GB</u>
PROPOSED RIDGE LINE	RIDGE
SWALE FLOWLINE	
PROPOSED GRADING SLOPE	1.00%
SPOT ELEVATION	30.01
FLUSH ELEVATION	30.01 FC
MATCH EXISTING ELEVATION	30.01± ME
TOP OF PAVEMENT/TOP OF CURB	30.01 TA 30.51 TC
FLOW/GUTTER LINE/TOP OF CURB	30.01 FL 30.51 TC

GRADING NOTES:

- 1. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED. (TA = TOP OF PAVEMENT TC = TOP OF CONCRETE SIDEWALK/CURB, ME = MATCH EXISTING ELEVATIONS, FC = FLUSH CURB, FL = FLOW LINE, GB = GRADE BREAK)
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PROPOSED GRADES IN RELATIONSHIP TO SURVEYED BASIS OF ELEVATION.
- 3. FILL MATERIAL AND COMPACTION SHALL CONFORM TO THE GEOTECHNICA REPORT AND CITY OF PUYALLUP REQUIREMENTS.
- 4. CONTRACTOR TO PROTECT AND MAINTAIN EROSION CONTROL FACILITIES DURING GRADING OPERATIONS.
- 5. CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND CITY OF PUYALLUP REQUIREMENTS.
- 6. CONTRACTOR TO RAISE AND ADJUST PROPOSED SANITARY SEWER CLEANOUT LIDS TO FINAL GRADE AS NECESSARY. CLEANOUTS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS.
- 7. CONTRACTOR TO RAISE AND ADJUST ALL EXISTING AND PROPOSED CATCH BASIN RIMS TO FINAL GRADE AS NECESSARY, CATCH BASINS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA STANDARDS.
- 8. CONTRACTOR TO ORDER LOCATES AND FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION TO ENSURE THAT UTILITY CONFLICTS DO NOT EXIST. CONTRACTOR TO REVIEW UTILITY ASBUILTS IN ORDER TO VERIFY EXISTING UTILITY LOCATIONS. CONTRACTOR SHALL POTHOLE ALL POTENTIAL UTILITY CONFLICTS PRIOR TO CONSTRUCTION. NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

WALL CALL NOTE:



ELEVATIONS SHOWN OF THE TOP AND BOTTOM OF WALL ARE AT THE EXPOSED FACE OF THE WALL, AND DO NOT INCLUDE HEIGHT OF THE WALL FOUNDATION OR EMBEDMENT DEPTH.

CITY OF PUYALLUP

MANAGER.

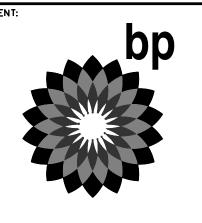
AND/OR OMISSIONS ON THESE

APPROVED

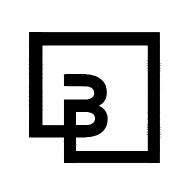
DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID
AFTER 180 DAYS FROM APPROVAL
SHEET NO: THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING







BP WEST COAST PRODUCTS, LLC

Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO. DATE REVISION DESCRIPTION





10/4/2

DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: **SWC S MERIDIAN** @ HIGHWAY 512

PUYALLUP, WASHINGTON FACILITY #TBD

LIANCE PM: 21730

GRADING PLAN - SOUTH

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



GEOTECHNICAL RECOMMENDATIONS

THE FOLLOWING NOTES HAVE BEEN REFERENCED FROM THE REPORT TITLED "GEOTECHNICAL ENGINEERING" INVESTIGATION" DATED MAY 6, 2022, PREPARED BY KRAZAN & ASSOCIATES, INC. REFER TO THE COMPLETE REPORT FOR ALL EARTHWORK REQUIREMENTS.

GENERAL SITE CLEARING SHOULD INCLUDE REMOVAL OF TOPSOIL MATERIAL, ASPHALTIC CONCRETE, ABANDONED UTILITIES, AND STRUCTURES INCLUDING FOUNDATIONS, SLABS, RUBBLE, AND TRASH, DOWN TO NATIVE SUITABLE SOILS. IN ADDITION, ANY BURIED STRUCTURES, SUCH AS GREASE TRAPS, SEPTIC TANKS, UNDERGROUND STORAGE TANKS, DEBRIS PITS, CESSPOOLS, OR SIMILAR STRUCTURES, SHOULD BE COMPLETELY REMOVED AND BACKFILLED WITH STRUCTURAL FILL. THE UNDOCUMENTED FILL AND THE NATIVE VERY LOOSE SANDS AND VERY SOFT TO MEDIUM STIFF ORGANIC SILT/PEAT, CLAY, AND SANDY OR CLAYEY SILT ENCOUNTERED IN OUR FIELD EXPLORATIONS ARE CONSIDERED UNSUITABLE FOR SUPPORT OF THE AM/PM BUILDING, FUEL CANOPY STRUCTURE, CAR WASH STRUCTURE, FLOOR SLABS AND EXTERIOR SLABS-ON-GRADE, AND PAVEMENT LOADS.

BASED ON THE SHALLOW GROUNDWATER LEVELS ENCOUNTERED IN OUR EXPLORATIONS CONDUCTED IN MARCH 2022, TEMPORARY DEWATERING MEASURES WILL LIKELY BE REQUIRED TO CONDUCT THE OVER-EXCAVATION OF UNSUITABLE SOILS. ESPECIALLY IF CONSTRUCTION TAKES PLACE DURING THE "WET WEATHER" SEASON

KRAZAN & ASSOCIATES RECOMMEND THE UNDOCUMENTED FILL AND UNSUITABLE NATIVE SOILS BE OVER-EXCAVATED TO A DEPTH OF AT LEAST 2 FEET BELOW THE FOOTING BEARING LEVEL FOR SHALLOW FOUNDATIONS OR THE PLANNED SUBGRADE ELEVATION FOR SLABS-ON-GRADE OR PAVEMENTS. DEEPER EXCAVATIONS MAY BE REQUIRED IF SOFT AND YIELDING SOIL CONDITIONS ARE EXPOSED AT THE BOTTOM OF THE OVER-EXCAVATION. A LAYER OF ROCK SPALLS SHOULD BE PLACED ON THE EXCAVATION BOTTOM AND TAMPED IN-PLACE TO PROVIDE A STABLE WORKING SURFACE FOR PLACEMENT OF STRUCTURAL FILL. KRAZAN & ASSOCIATES RECOMMEND A HIGH-STRENGTH GEOTEXTILE SEPARATION FABRIC, SUCH AS MIRAFI 600X OR EQUIVALENT, THEN BE PLACED OVER THE ROCK SPALLS. AFTER THE FABRIC IS PLACED, THE AREA SHOULD BE FILLED TO THE PLANNED PAVEMENT SUBGRADE ELEVATION WITH STRUCTURAL FILL. THE STRUCTURAL FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D1557) AND TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. IN-PLACE DENSITY TESTS SHOULD BE PERFORMED TO VERIFY PROPER MOISTURE CONTENT AND ADEQUATE COMPACTION LEVELS ARE ACHIEVED IN THE STRUCTURAL FILL. AN EXISTING RESTAURANT BUILDING IS LOCATED WITHIN THE EASTERN CENTRAL PORTION OF THE PROPERTY WHERE THE CANOPY AND FUEL PUMPS ARE PLANNED, AND EXTENDS INTO PART OF THE PROPOSED AREA OF THE FUTURE USTS. THE DEBRIS FROM DEMOLITION OF THE EXISTING BUILDING SHOULD BE HAULED OFF-SITE. AS-BUILT RECORDS FOR THE EXISTING BUILDING WERE NOT AVAILABLE AT THE TIME OF THIS REPORT. ASSUMING THE RESTAURANT IS SUPPORTED ON A SHALLOW FOUNDATION SYSTEM. THEN EXISTING CONCRETE FOOTINGS SHOULD BE COMPLETELY REMOVED WITHIN THE FOOTPRINT OF THE CANOPY STRUCTURE, AND TO A DEPTH OF AT LEAST 1-FOOT BELOW THE PLANNED SUBGRADE ELEVATION IN NEW PAVEMENT OR EXTERIOR SLAB-ON-GRADE AREAS. IF THE EXISTING BUILDING IS PILE SUPPORTED, THE TYPE AND LOCATION OF THE PILES WILL NEED TO BE EVALUATED PRIOR TO OR DURING CONSTRUCTION AS INFORMATION BECOMES AVAILABLE TO DETERMINE IF THE PILES SHOULD BE LEFT IN-PLACE, OR PARTIALLY OR COMPLETELY REMOVED. KRAZAN & ASSOCIATES SHOULD BE ONSITE FULL-TIME DURING THE DEMOLITION ACTIVITIES TO DOCUMENT THAT ALL BELOW-GRADE STRUCTURES HAVE BEEN PROPERLY REMOVED AND BACKFILLED WITH PROPERLY PLACED AND COMPACTED STRUCTURAL FILL, AND THAT THE RESULTING DEBRIS FROM THE DEMOLITION ACTIVITIES

DURING WET WEATHER CONDITIONS. SUBGRADE STABILITY PROBLEMS AND GRADING DIFFICULTIES MAY DEVELOP DUE TO THE EXCESS MOISTURE, DISTURBANCE OF SENSITIVE SOILS, SHALLOW GROUNDWATER LEVELS, AND/OR THE PRESENCE OF PERCHED GROUNDWATER. CONSTRUCTION DURING EXTENDED PERIODS OF WET WEATHER COULD RESULT IN THE NEED TO REMOVE WET DISTURBED SOILS IF THEY CANNOT BE SUITABLY COMPACTED DUE TO ELEVATED MOISTURE CONTENTS. THE PREPARED SUBGRADE SHOULD BE PROTECTED FROM CONSTRUCTION TRAFFIC AND SURFACE WATER SHOULD BE DIVERTED AROUND THE PREPARED SUBGRADE. SOILS THAT HAVE BECOME UNSTABLE MAY REQUIRE OVER-EXCAVATION, OR DRYING AND RECOMPACTION. SELECTIVE DRYING MAY BE ACCOMPLISHED BY SCARIFYING OR WINDROWING SURFICIAL MATERIAL DURING EXTENDED PERIODS OF DRY, WARM WEATHER (TYPICALLY DURING THE SUMMER MONTHS). IF THE SOILS CANNOT BE DRIED BACK TO A WORKABLE MOISTURE CONDITION, REMOVAL OF THE UNSTABLE SOILS OR THE USE OF REMEDIAL MEASURES MAY BE REQUIRED. THESE REMEDIAL MEASURES COULD INCLUDE PLACEMENT OF A BLANKET OF ROCK SPALLS TO PROTECT THE EXPOSED SUBGRADE AND CONSTRUCTION TRAFFIC AREAS. THE LATERAL EXTENT AND DEPTH OF ROCK SPALLS, IF REQUIRED, SHOULD BE DETERMINED BASED ON EVALUATION OF THE NEAR SURFACE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. GENERAL PROJECT SITE WINTERIZATION SHOULD CONSIST OF THE PLACEMENT OF AGGREGATE BASE AND THE PROTECTION OF EXPOSED SOILS DURING THE CONSTRUCTION PHASE.

HAS BEEN HAULED OFF-SITE AND NOT RE-USED AS FILL AT ANY LOCATION ON THE PROPERTY.

POREWATER PRESSURE DISSIPATION TESTS CONDUCTED ON MARCH 30, 2022 IN THE CPTS INDICATED A GROUNDWATER LEVEL RANGING BETWEEN 1.2 TO 3.7 FEET BGS. SHALLOW GROUNDWATER WAS ALSO ENCOUNTERED IN THE TEST PITS: HOWEVER, AFTER WAITING 3 HOURS THE WATER LEVEL WAS STILL RISING SO THE TEST PITS WERE BACKFILLED FOR SAFETY REASONS. TWO MONITORING WELLS INSTALLED BY OTHERS, ONE NEAR CPT-1 AND THE OTHER NEAR CPT-4. INDICATED WATER LEVELS AT 4.6 AND 1.5 FEET BGS. A MANHOLE COVER FOR THE COMMUNICATIONS LINE AT THE NORTHEAST SIDE OF THE SITE WAS REMOVED DURING OUR MARCH 28, 2022 SITE VISIT AND THE WATER LEVEL WAS MEASURED AT A DEPTH OF ABOUT 5.5 FEET BG.

SUMP PIT AND PUMPING METHODS MAY BE ABLE TO HANDLE GROUNDWATER ENCOUNTERED IN SHALLOW EXCAVATIONS DEPENDING ON THE TIME OF YEAR CONSTRUCTION TAKES PLACE. THE PLANNED EXCAVATION DEPTH, AND THE SOILS ENCOUNTERED WITHIN THE EXCAVATION. THE TEST PITS CONDUCTED FOR THIS EXPLORATION ENCOUNTERED GROUNDWATER AS SHALLOW AS 1.5 FEET BGS, AND CAVE-IN OF THE PIT SIDEWALLS OCCURRED IN THE VERY LOOSE TO LOOSE SOILS AT ABOUT THE LEVEL GROUNDWATER WAS ENCOUNTERED. DEEPER EXCAVATIONS, SUCH AS FOR INSTALLATION OF THE USTS, WILL REQUIRE MORE A MORE AGGRESSIVE DEWATERING METHOD, SUCH AS WELL POINTS. TO MAINTAIN THE STABILITY OF THE EXCAVATION BOTTOM, GROUNDWATER LEVELS SHOULD BE DRAWN DOWN A MINIMUM OF 2 FEET BELOW THE LOWEST PORTION OF THE EXCAVATION. THE GROUNDWATER LEVEL SHOULD BE MAINTAINED BELOW THE RECOMMENDED LEVEL UNTIL THE BACKFILL HAS BEEN PLACED AND COMPACTED.

THE ONSITE SOILS HAVE VARIABLE FRICTION AND COHESION STRENGTHS, THEREFORE THE SAFE ANGLES TO WHICH THESE MATERIALS MAY BE CUT FOR TEMPORARY EXCAVATIONS IS VARIABLE. AS THE SOILS MAY BE PRONE TO CAVING AND SLOPE FAILURES IN TEMPORARY EXCAVATIONS DEEPER THAN ABOUT 2 FEET OR AT THE LEVEL WHERE GROUNDWATER IS ENCOUNTERED. TEMPORARY EXCAVATIONS IN THE FILL MATERIAL AND UNDERLYING NATIVE SOILS SHOULD BE SLOPED NO STEEPER THAN 2H:1V (HORIZONTAL TO VERTICAL) WHERE ROOM PERMITS. DEPENDING ON SITE SOIL AND GROUNDWATER CONDITIONS, IT MAY BE NECESSARY TO FLATTEN THE SIDE SLOPES OF THE EXCAVATION AND LOWER THE GROUNDWATER LEVEL AS NECESSARY TO ACHIEVE STABLE CONDITIONS. SLOPE CUTS INTO EXCAVATIONS GREATER THAN 20 FEET IN DEPTH SHOULD BE DESIGNED BY A PROFESSIONAL ENGINEER FOR THE CONTRACTOR.

THE ONSITE UNDOCUMENTED FILL AND NATIVE SOILS ARE CONSIDERED UNSUITABLE FOR RE-USE AS TRENCH BACKFILL, STRUCTURAL FILL SHOULD BE USED AS BACKFILL. TRENCH BACKFILL LIFTS SHOULD BE PLACED IN EQUAL MEASURES ON EACH SIDE OF THE UTILITY PIPE TO THE TOP OF THE PIPE. TRENCH BACKFILL LIFTS SHOULD NOT EXCEED 8 INCHES IN LOOSE THICKNESS PRIOR TO COMPACTION, WITH THE EXCEPTION THAT THE FIRST LIFT PLACED OVER THE PIPE MAY BE UP TO 14 INCHES IN LOOSE THICKNESS. EACH LIFT OF TRENCH BACKFILL SHOULD BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF ITS OPTIMUM MOISTURE CONTENT AND COMPACTED TO THE REQUIRED RELATIVE DENSITY PRIOR TO PLACEMENT OF ADDITIONAL FILL LIFTS. A FIRM AND UNYIELDING SUBGRADE (I.E. BEARING SOILS AT BOTTOM OF TRENCH) SHOULD ALLOW FOR THE PROPER PLACEMENT OF SUBSURFACE UTILITIES. IF UNSTABLE SOILS ARE ENCOUNTERED AT THE UTILITY TRENCH BOTTOM, WE RECOMMEND PLACEMENT OF GEOTEXTILE AND QUARRY ROCK (ROCK SPALLS) ON THE BOTTOM OF UTILITY TRENCHES PRIOR TO PLACEMENT OF PIPE BEDDING TO PROVIDE A STABLE SUBGRADE FOR PLACEMENT OF THE PIPE BEDDING UTILITY, AND TRENCH BACKFILL. THE THICKNESS OF THE ROCK SPALL LAYER WILL DEPEND ON THE INSTABILITY OF THE SUBGRADE SOILS AT THE TIME OF EXCAVATION. PIPE BEDDING SHOULD BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATION.

BASED ON THE FIELD EXPLORATION, THE UNDOCUMENTED FILL AND NATIVE SOIL THAT WILL BE ENCOUNTERED WITHIN ROUGHLY THE UPPER 10 FEET DURING SITE DEVELOPMENT ARE CONSIDERED UNSUITABLE FOR RE-USE AS STRUCTURAL FILL MATERIAL DUE TO THEIR HIGH FINES CONTENT (PERCENT SILT AND/OR CLAY MATERIAL PASSING THE NO. 200 SIEVE), AS WELL AS ORGANIC CONTENT FOR THE SHALCAR MUCK ENCOUNTERED IN OUR EXPLORATIONS. THESE SOILS ARE CONSIDERED EXTREMELY MOISTURE-SENSITIVE AND WILL LIKELY DISTURB EASILY IN WET CONDITION.

IMPORTED FILL MATERIAL SHOULD BE ALL-WEATHER STRUCTURAL FILL CONSISTING OF WELL-GRADED GRAVEL OR A SAND AND GRAVEL MIXTURE WITH A MAXIMUM GRAIN SIZE OF 3 INCHES AND LESS THAN 5 PERCENT FINES (MATERIAL PASSING THE U.S. STANDARD NO. 200 SIEVE). STRUCTURAL FILL MAY ALSO CONSIST OF CRUSHED ROCK, ROCK SPALLS, OR CONTROLLED DENSITY FILL (CDF).

ALL STRUCTURAL FILL MATERIAL SHOULD BE SUBMITTED FOR APPROVAL TO THE GEOTECHNICAL ENGINEER AT LEAST 48 HOURS PRIOR TO DELIVERY TO THE SITE. FILL SOILS SHOULD BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES LOOSE THICKNESS, MOISTURE-CONDITIONED AS NECESSARY (MOISTURE CONTENT OF SOIL SHALL NOT VARY BY MORE THAN ±2 PERCENT OF ITS OPTIMUM MOISTURE CONTENT). AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY BASED ON ASTM TEST METHOD D1557 (MODIFIED PROCTOR). IN-PLACE DENSITY TESTS SHOULD BE PERFORMED ON ALL STRUCTURAL FILL TO DOCUMENT

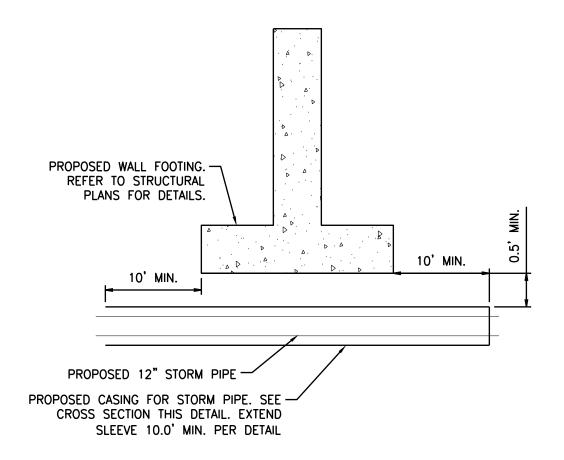
PROPER MOISTURE CONTENT AND ADEQUATE COMPACTION LEVELS HAVE BEEN ATTAINED. ADDITIONAL FILL LIFTS SHOULD NOT BE PLACED IF THE PREVIOUS LIFT DID NOT MEET THE COMPACTION REQUIREMENTS OR IF SOIL CONDITIONS ARE NOT CONSIDERED STABLE. PLACING SEVERAL LIFTS OF FILL AND THEN POTHOLING DOWN TO EACH LIFT TO CONDUCT COMPACTION TESTING IS NOT ACCEPTABLE, AND WILL REQUIRE COMPLETE REMOVAL OF THE FILL DOWN TO THE FIRST LIFT. PONDING OR JETTING THE SOIL IS NOT AN APPROVED METHOD OF SOIL COMPACTION

TW EL = ± 53.56 FINISHED GRADE PER PLAN-TW ELEVATION PER PLAN > LANDSCAPE SWALE $EL = \pm 53.48$ FLOW ARROW BLOCK WALL PER STRUCTURAL AND -CONCRETE CURB GEOTECHNICAL RECOMMENDATIONS. PER CIVIL DRAWINGS $EL = \pm 53.57$ **HARDSCAPE** FINISHES PER PLAN EXPOSED WALL HEIGHT PER PLAN -ELEVATIONS VARY PER PLAN -FILL PER OWNER BW EL = $\pm 49.52 -$ APPOINTED GEOTECHNICAL **ELEVATIONS VARY PER PLAN-**ENGINEER'S REPORT $EL = \pm 48.49 \, \neg$ PROPOSED GRADE - $EL = \pm 47.99 \, \neg$ HARDSCAPE FINISHES ~ PER PLAN PROVIDE 4"Ø PERFORATED DRAIN PIPE. - OVER EXCAVATE AND PREPARE SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS. 16" DI CASING, 0.375' MIN. WALL THICKNESS. PROPOSED CASING FOR STORM 12" STORM PIPE, CENTERED -- FILL ANNULAR SPACE WITH PIPE. SEE CROSS SECTION THIS AND RESTRAINED. AIR BLOWN SAND DETAIL. EXTEND SLEEVE 10.0' MIN. PIPE CASING CROSS SECTION PROPOSED CASING FOR STORM PIPE. SEE CROSS SECTION THIS DETAIL. EXTEND SLEEVE 10.0' MIN.

ELEVATIONS VARY PER PLAN-

1 BLOCK WALL

C4.2 | SCALE: 1/2"=1'-0"



3 DUCTILE IRON PIPE CASING C4.2 / SCALE: NTS

APPROVED

CITY OF PUYALLUP DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL SHEET NO: THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

MANAGER.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

ARCO

BP WEST COAST PRODUCTS, LLC

Consulting Engineers, Inc.

18215 72nd Avenue South

NO. DATE REVISION DESCRIPTION

Kent. WA 98032

barghausen.com

DEVELOPMENT INFORMATION:

SITE ADDRESS:

ARCO NTI

3400 am/pm FUEL CANOPY w/ 6 MPD's

SWC S MERIDIAN

@ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

GRADING NOTES AND DETAILS

LIANCE PM:

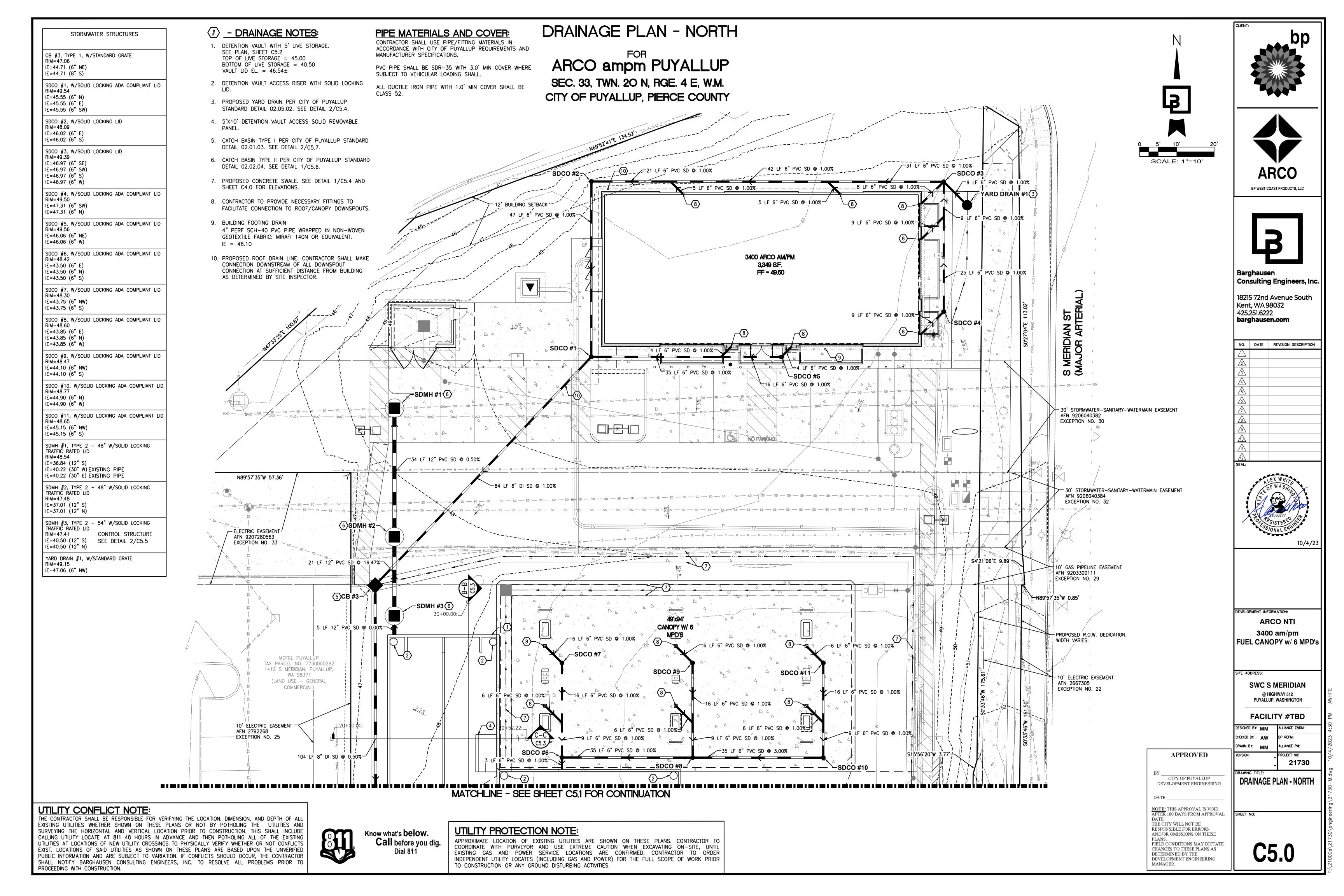
21730

425.251.6222

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.





DRAINAGE PLAN - SOUTH

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

PIPE MATERIALS AND COVER:

CONTRACTOR SHALL USE PIPE/FITTING MATERIALS IN ACCORDANCE WITH CITY OF PUYALLUP REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.

PVC PIPE SHALL BE SDR-35 WITH 3.0' MIN COVER WHERE SUBJECT TO VEHICULAR LOADING SHALL.

ALL DUCTILE IRON PIPE WITH 1.0' MIN COVER SHALL BE CLASS 52.

SCALE: 1"=10'

VAULT LID EL. = 47.50-48.582. DETENTION VAULT ACCESS RISER WITH SOLID LOCKING LID.

3. BUILDING FOOTING DRAIN 4" PERF SCH-40 PVC PIPE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC: MIRAFI 140N OR EQUIVALENT.

(#) - DRAINAGE NOTES:

1. DETENTION VAULT WITH 5' LIVE STORAGE. SEE PLAN, SHEET C5.2

BOTTOM OF LIVE STORAGE = 40.50

TOP OF LIVE STORAGE = 45.00

4. PROPOSED OIL/WATER SEPARATOR (OLDCASTLE PRECAST 577-CPS OR APPROVED EQUAL) SEE DETAIL 1/C5.7 RIM: 47.53 IE: 44.48 (IN 8" SE) IE: 45.00 (OUT 8" NW)

5. 8" EMERGENCY SHUT OFF VALVE W/ RISER & VALVE BOX. VALVE SHALL BE INSTALLED IN TRAFFIC RATED BOX.

6. CONTECH MODULAR WETLAND: MWS-L-8-8-V SEE DETAIL 2/C5.6 RIM: 47.57 IE: 44.97 (IN 8" SE)

7. CATCH BASIN TYPE I PER CITY OF PUYALLUP STANDARD DETAIL 02.01.03. SEE DETAIL 2/C5.7.

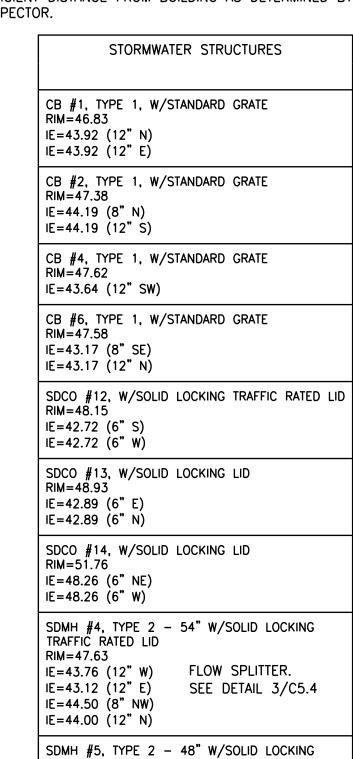
8. CATCH BASIN TYPE II PER CITY OF PUYALLUP STANDARD DETAIL 02.01.04. SEE DETAIL 1/C5.6.

9. CONTRACTOR TO PROVIDE NECESSARY FITTINGS TO FACILITATE CONNECTION TO ROOF/CANOPY DOWNSPOUTS.

10. PROPOSED CONCRETE SWALE. SEE DETAIL 1/C5.4 AND SHEET C4.1 FOR ELEVATIONS.

11. PROPOSED PIPE CASING, SEE WALL DETAIL 1/C4.2. CONTRACTOR TO ENSURE 0.5' SEPARATION BETWEEN TOP OF PIPE AND BOTTOM OF WALL FOOTING FOR 10' ON EITHER SIDE OF INTERSECTION.

12. PROPOSED ROOF DRAIN LINE. CONTRACTOR SHALL MAKE CONNECTION DOWNSTREAM OF ALL DOWNSPOUT CONNECTION AT SUFFICIENT DISTANCE FROM BUILDING AS DETERMINED BY SITE INSPECTOR.

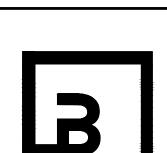


TRAFFIC RATED LID

IE=43.40 (12" NE) IE=43.40 (12" W)

RIM=51.19





BP WEST COAST PRODUCTS, LLC

Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
<u></u>		
12		
SEAL:		



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: **SWC S MERIDIAN**

> @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

RSION:	- -	PROJECT NO: 21730
RAWN BY:	ММ	ALLIANCE PM:
ECKED BY:	AW	BP REPM:
SIGNED BY:	MM	ALLIANCE Z&DM:

DRAINAGE PLAN - SOUTH

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

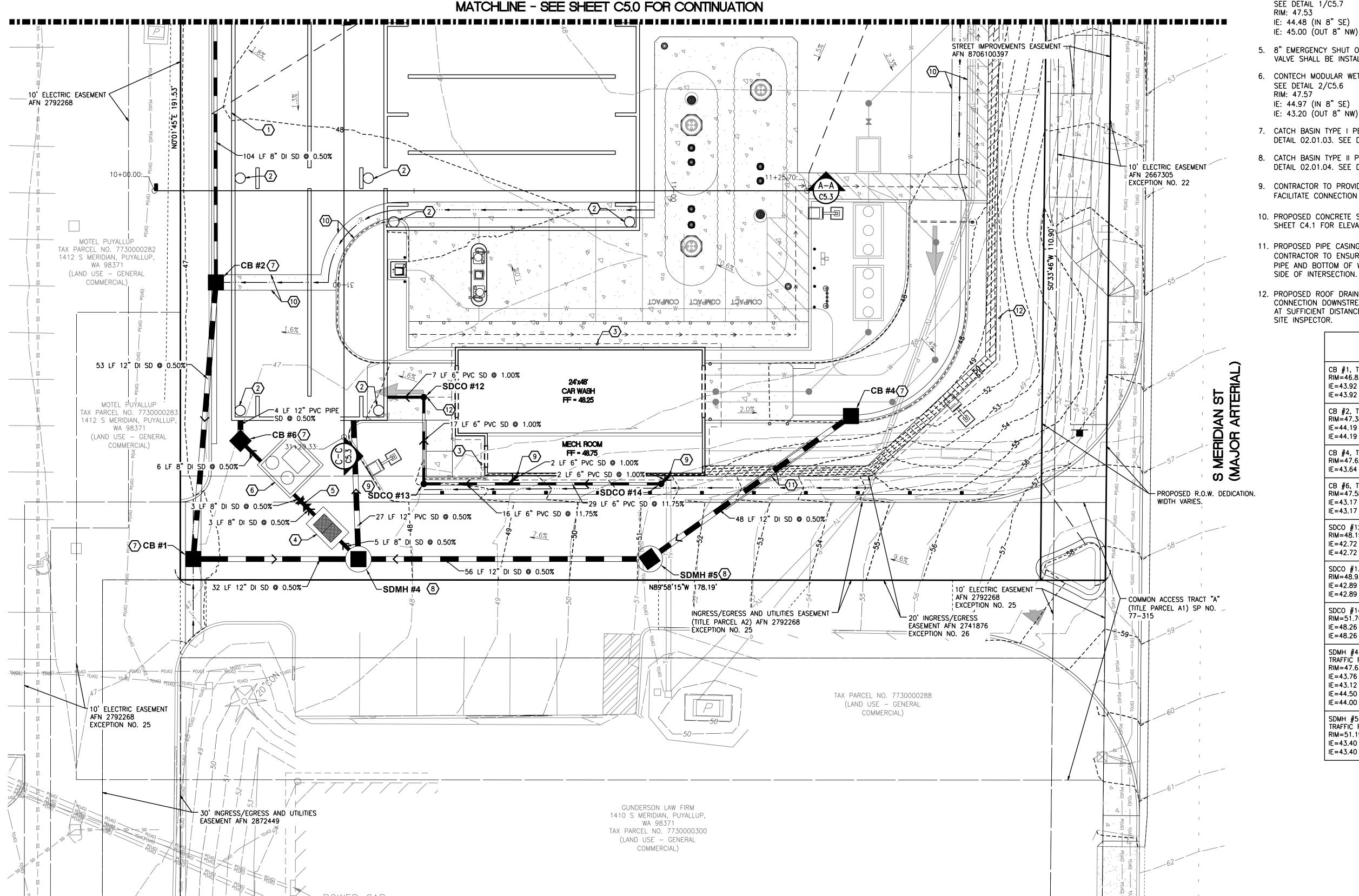
DETERMINED BY THE

MANAGER.

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS



UTILITY CONFLICT NOTE:

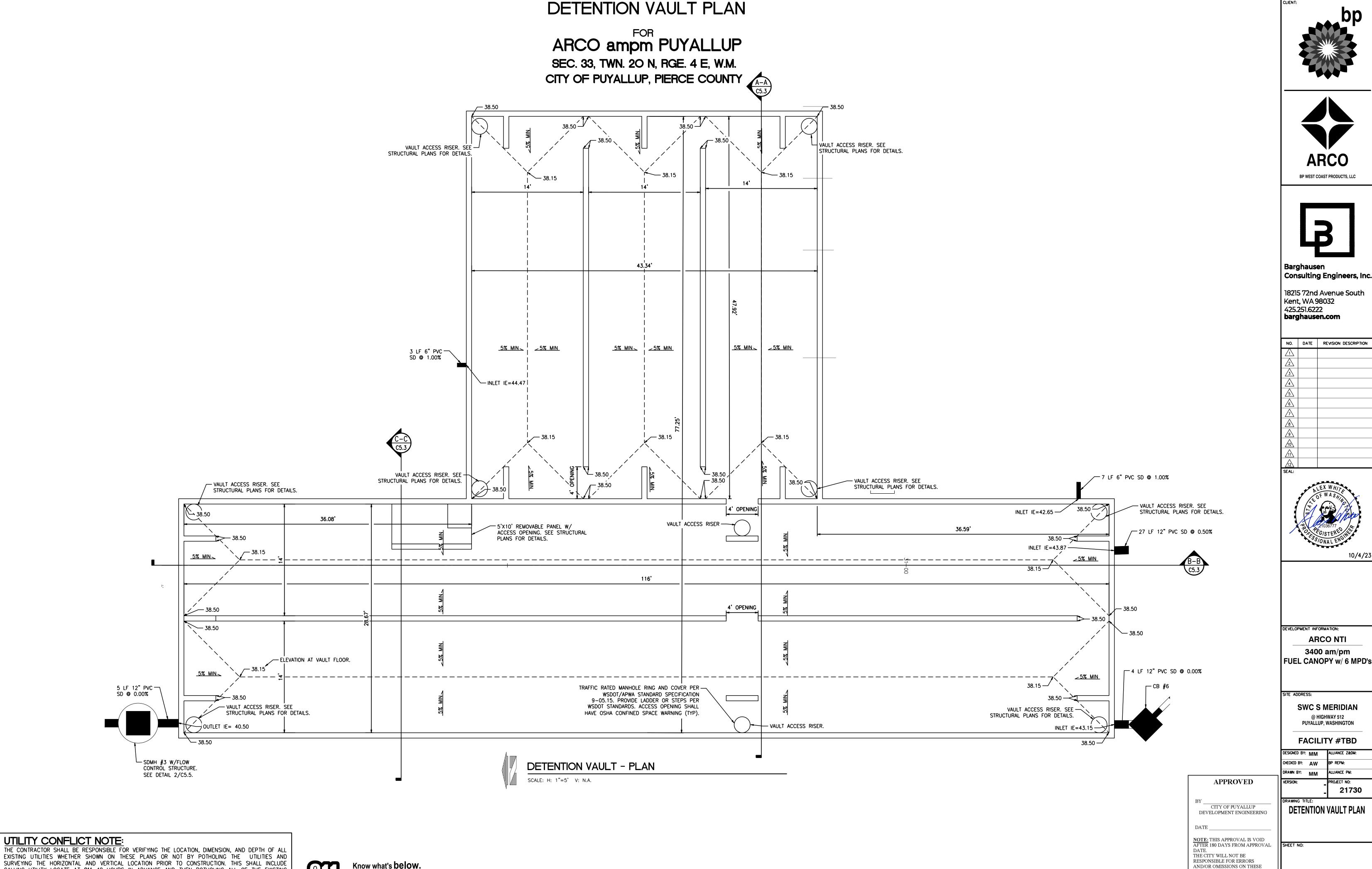
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR T PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. **Dial 811**

UTILITY PROTECTION NOTE:

APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THESE PLANS. CONTRACTOR TO COORDINATE WITH PURVEYOR AND USE EXTREME CAUTION WHEN EXCAVATING ON-SITE, UNTIL EXISTING GAS AND POWER SERVICE LOCATIONS ARE CONFIRMED. CONTRACTOR TO ORDER INDEPENDENT UTILITY LOCATES (INCLUDING GAS AND POWER) FOR THE FULL SCOPE OF WORK PRIOR TO CONSTRUCTION OR ANY GROUND DISTURBING ACTIVITIES.



FACILITY #TBD

LLIANCE PM: 21730

DETENTION VAULT PLAN

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

DETERMINED BY THE

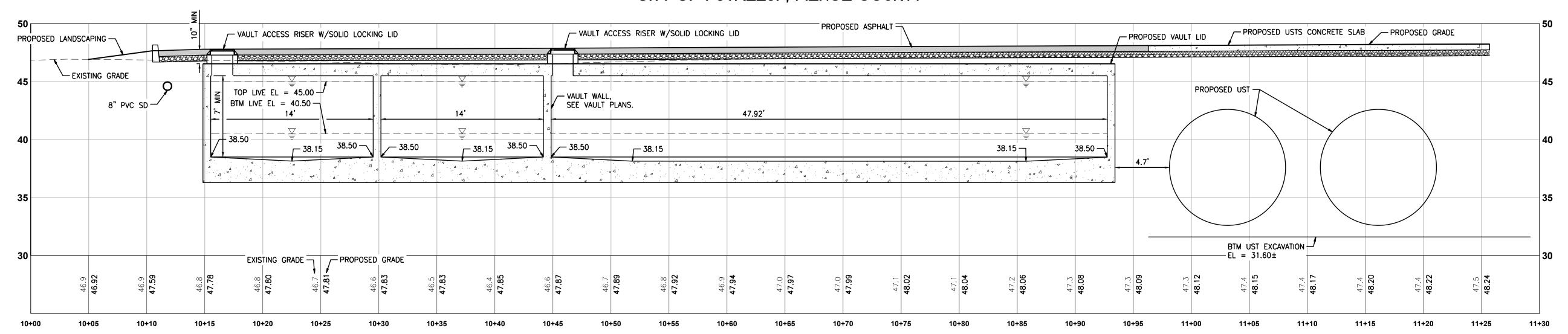
MANAGER.

CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

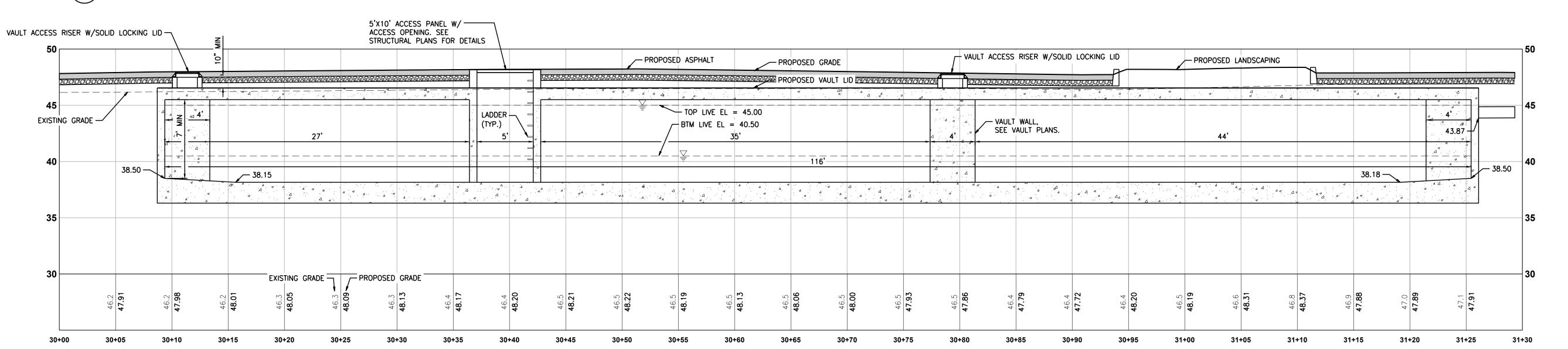


DETENTION VAULT CROSS SECTIONS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

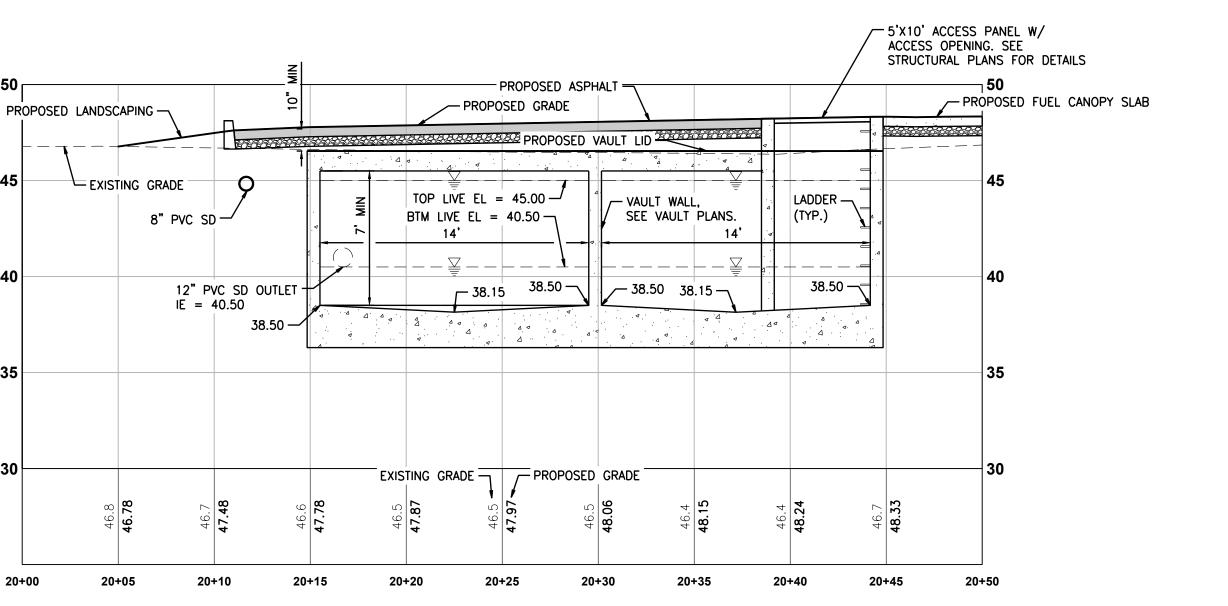


C5.3 SCALE: H: 1" = 5', V: 1" = 5'



B-B VAULT SECTION C-C - LOOKING EAST

C5.3 SCALE: H: 1" = 5', V: 1" = 5'



UTILITY CONFLICT NOTE:

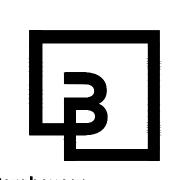
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. Dial 811

C-C VAULT SECTION B-B - LOOKING NORTH C5.3 | SCALE: H: 1" = 5', V: 1" = 5'





Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
<u> </u>		
6		
7		
8		
<u></u>		
10		
11		
12		
SEAL:		



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm FUEL CANOPY w/ 6 MPD's

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

> FACILITY #TBD LLIANCE PM:

21730 **DETENTION VAULT CROSS**

CITY OF PUYALLUP DEVELOPMENT ENGINEERING **SECTIONS**

APPROVED

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

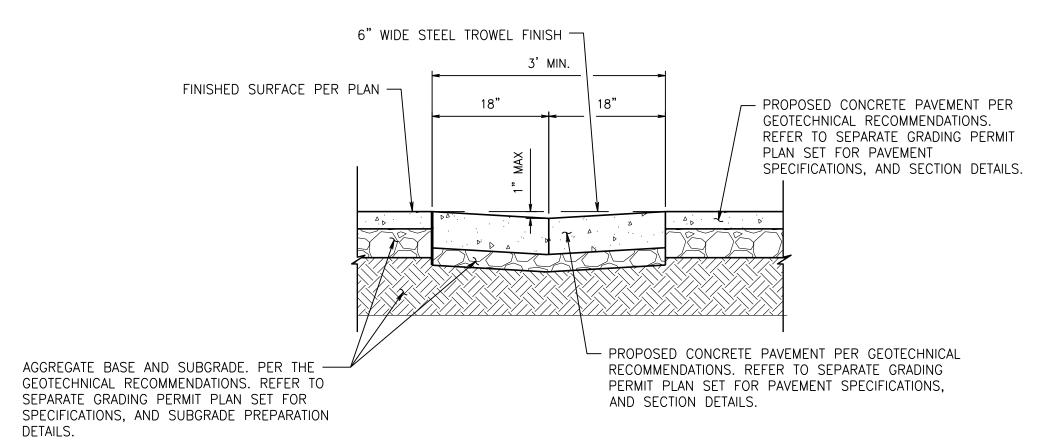
FIELD CONDITIONS MAY DICTATE

CITY OF PUYALLUP - STORMWATER NOTES:

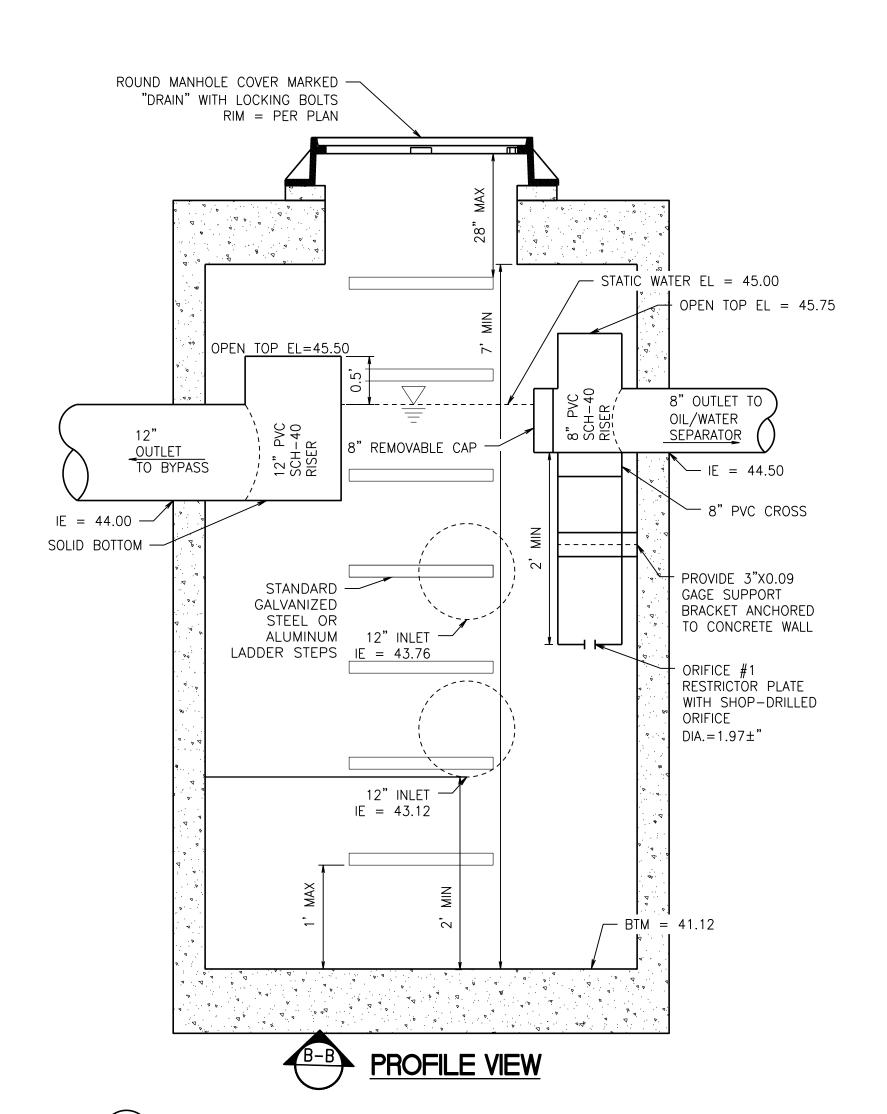
- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING. THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, 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
- 2. 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.
- 3. 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").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. 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.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- 9. 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.
- 10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- 11. 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
- 12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD 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.
- 13. 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).
- 14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE. A. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION. B. 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. C. 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. D. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT. E. 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.
- 15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- 16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 17. 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.
- 18. 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.

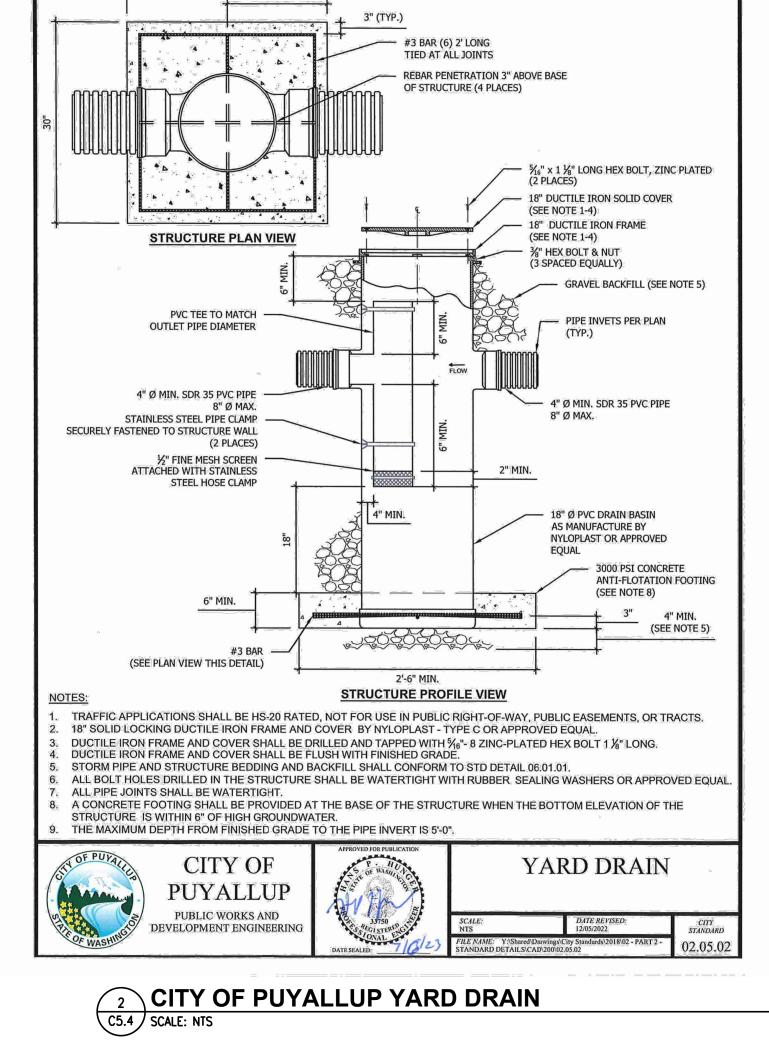
DRAINAGE NOTES AND DETAILS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

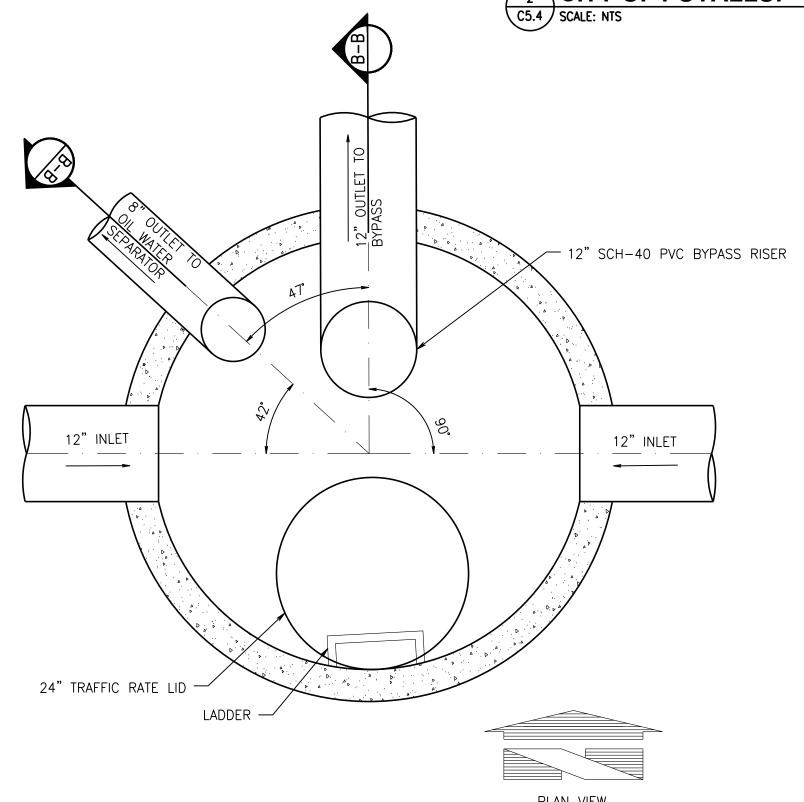


∖CONCRETE DRAINAGE SWALE C5.4 / SCALE: NTS





15"



UTILITY CONFLICT NOTE:

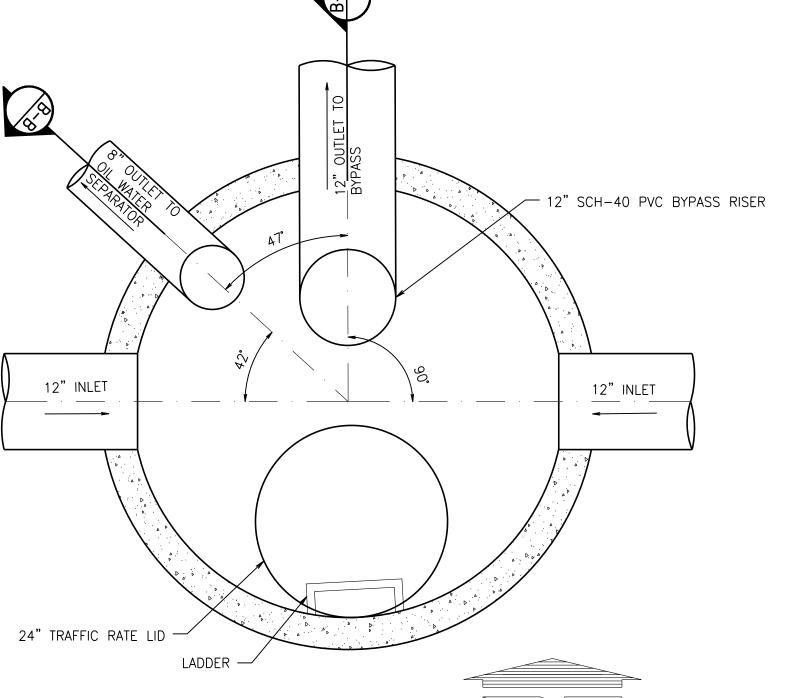
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's below. Call before you dig. **Dial 811**

C5.4 SCALE: NTS

3 SDMH #4 - TYPE 2 - 54" FLOW SPLITTER



APPROVED

CITY OF PUYALLUP DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

MANAGER.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

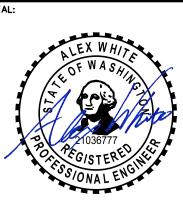




Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
<u></u>		
<u>6</u>		
$\overline{\mathcal{A}}$		
8		
<u></u>		
10		
<u></u>		
12		
SEAL:		
	نع.	EYWU



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD LIANCE PM: 21730

DRAINAGE NOTES AND DETAILS

- STANDARD GALVANIZED STEEL OR

RISER TOP -

RECTANGLE NOTCH

PROVIDE 3"X0.09 GAGE

ANCHORED TO CONCRETE

PROVIDE 3"X0.09 GAGE SUPPORT

RESTRICTOR PLATE WITH SHOP -DRILLED ORIFICE 0.497"ø

BRACKET ANCHORED TO

CONCRETE WALL

EL = 38.50

SUPPORT BRACKET

1.41' x 0.01'

____12" PVC

IE = 40.50

IE = 45.00

4 4 4 4 4 4

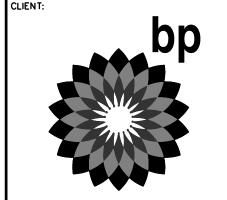
ALUMINUM LADDER STEPS

- ROUND LOCKING ACCESS LID

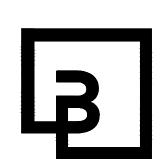
WITH STEPS OR LADDER

W/HANDHOLD

PLAN VIEW







Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

- ROUND SOLID COVER MARKED

RIM = 47.41

"DRAIN" WITH LOCKING BOLTS.

12<u>"</u> INLET

IE = 40.50

DESIGN W.S. EL=40.50

12" RISER TO BE ALUMINUM

MEETING WSDOT/APWA

STANDARDS

PROFILE VIEW

CMP OR ALUMINUM STEEL CMP

- REMOVABLE GASKET

END PLUG.





DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: SWC S MERIDIAN @ HIGHWAY 512

> PUYALLUP, WASHINGTON FACILITY #TBD

LLIANCE PM: 21730 DRAINAGE DETAILS

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE

APPROVED

CITY OF PUYALLUP

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

DETERMINED BY THE

MANAGER.

C5.5

NOTES FOR FLOW CONTROL MANHOLE:

1 1/2" ASPHALT PATCH

- HANDHOLD

└─_9" CONCRETE COLLAR

PRECAST RISER SECTION

REMOVABLE GASKETED END PLUG

PRECAST BASE WITH NTEGRAL RISER

12" MIN. OF 1 1/4" MINUS GRAVEL BEDDING

DROP-IN ANCHOR

WITH JAMB NUT

STAINLESS STEEL PIPE CLAMP

02.01.07

PIPE SUPPORT

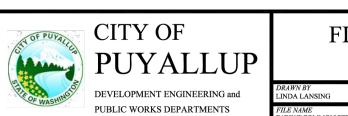
FLOW CONTROL MANHOLE WITH FLAT TOP

FLOW

CENTER LINE OF MANHOLE LID AND RUNGS

1/2" MIN. SS THREADED ROD W/ WASHER & NUT EACH SIDE OF CLAMP

- 1. NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- 2. FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
- MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (ASSHTO M-199) AND MEET ALL WISHA REQUIREMENTS. MANHOLE RUNGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A RUNG LEG IS PROHIBITED. SEE MANHOLE STEP AND LADDER DETAIL, CITY STANDARD DETAIL NO. 06.01.04.
- 4. PRECAST RISER SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF TWO (2) INCHES MINIMUM. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MINIMUM DISTANCE BETWEEN HOLES IS EIGHT (8) INCHES.
- 5. PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
- 6. FLEXIBLE JOINTS SHALL BE RUBBER GASKETED IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS. MORTARED, DRY-PACKED, OR CAST-IN-PLACE JOINTS WILL BE PERMITTED FOR CONNECTIONS TO OR THROUGH MANHOLES. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO OR THROUGH SAID MANHOLES. CONNECTIONS TO MANHOLE WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.
- 7. THE COVER ON THE MANHOLE SHALL BE MARKED WITH "STORM" OR "DRAIN" IN TWO (2) INCH RAISED LETTERS. SEE MANHOLE RING AND COVER DETAIL, CITY STANDARDS DETAIL NO. 06.01.02 AND 06.01.03.
- 8. STAINLESS STEEL PIPE CLAMP WITH 1/2" DIAMETER STAINLESS STEEL THREADED ROD WITH WASHER AND NUT EACH SIDE OF CLAMP. PROVIDE 1/2" DIAMETER DROP-IN ANCHOR WITH JAMB NUT AT WALL. PIPE CLAMPS SHALL BE PLACED AT SIXTEEN (16) INCHES ON CENTER.
- FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.



FLOW CONTROL MANHOLE **NOTES**

CITY OF PUYALLUP FLOW CONTROL DETAIL C5.5 SCALE: NTS

MANHOLE RING AND COVER

CAST IRON FRAME

AND COVER SEE CITY STANDARD DETAIL NO. 404

6" PVC SLEEVE

ADJUSTING RINGS 4" MIN. TO 16" MAX., PLASTER INSIDE FACING WITH 1/2" MORTAR

MASTIC AROUND TEE
AT CENTER OF WALL

OUTLET PIPE

NON-SHRINK GROUT, TYP.

JOINTS SHALL BE RUBBER
GASKETED, MEET ASTM C 443

SEE PIPE SUPPORT DETAIL BELOW

12", TYP.,

UNDISTURBED OR COMPACTED SUB-GRADE

CLEAR TOP VIEW

ORIFICE PLATE SHALL BE ATTACHED WITH A PVC CEMENT

REMOVABLE GASKETED END PLUG

CITY OF

PUBLIC WORKS DEPARTMENTS

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR T PROCEEDING WITH CONSTRUCTION.

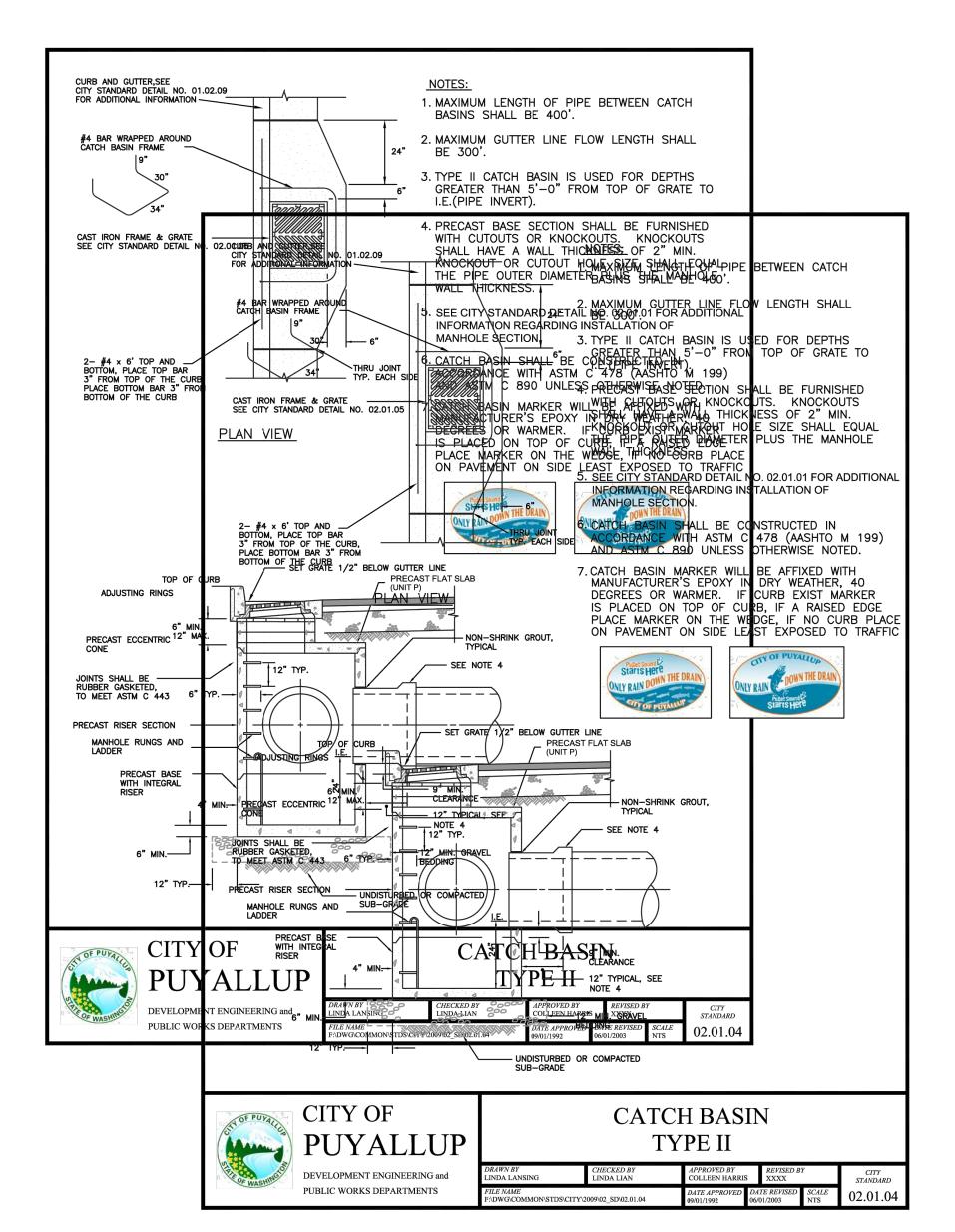


Know what's **below**. Call before you dig.

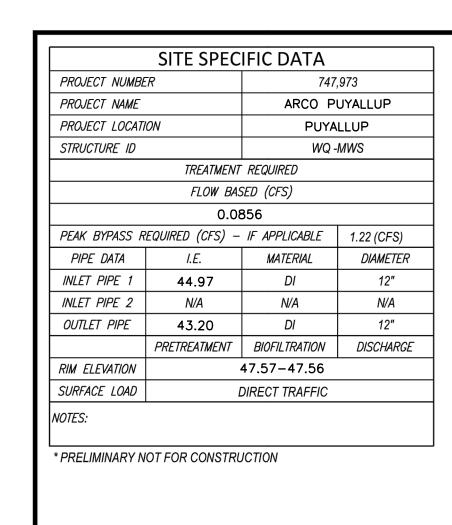
SDMH #2 - FLOW CONTROL MANHOLE - TYPE II-54" C5.5 SCALE: NTS Dial 811

DRAINAGE DETAILS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



1 TYPE 2 CATCH BASIN C5.6 SCALE: NTS



CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND

UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER

PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF

OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S

CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS,

MANHOLES, AND HATCHES. CONTRACTOR TO USE GROUT AND/OR BRICKS TO MATCH COVERS WITH FINISHED SURFACE UNLESS SPECIFIED

VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH

VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND

CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER

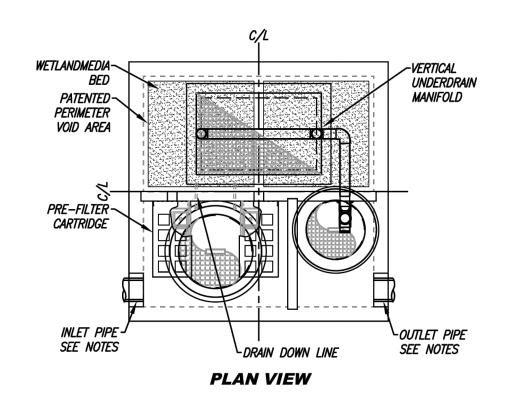
MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.

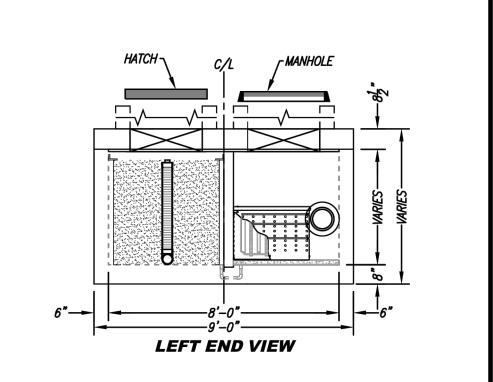
ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO

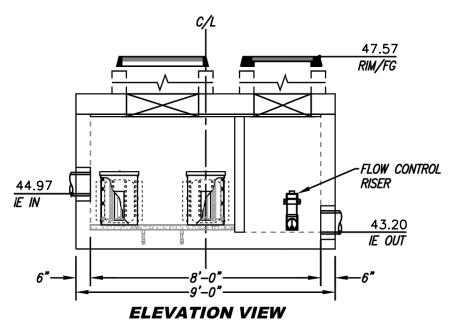
CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS

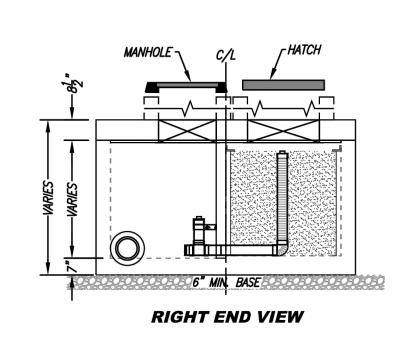
INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN

RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING









OPERATING HEAD (FT)	2.1
PRETREATMENT LOADING RATE (GPM/SF) WETLAND MEDIA LOADING RATE (GPM/SF)	1.3
N/IN/S_1_8_8_1/_I	,,,,



IVI VV S-L-8-8-V-UG STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL



ACTIVATION BY A CONTECH REPRESENTATIVE.

AND ACCESSORIES PLEASE CONTACT CONTECH.

INSTALLATION NOTES

MANUFACTURER'S CONTRACT.

STANDARD CONNECTION DETAIL.

OTHERWISE.

GENERAL NOTES

INSTALLED BY OTHERS.

APPROVED

BY _____CITY OF PUYALLUP DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

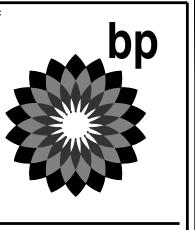
AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. Dial 811







Consulting Engineers, Inc. 18215 72nd Avenue South Kent, WA 98032 425.251.6222

barghausen.com





DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

DESIGNED BY: MM ALLIANCE Z&DM:

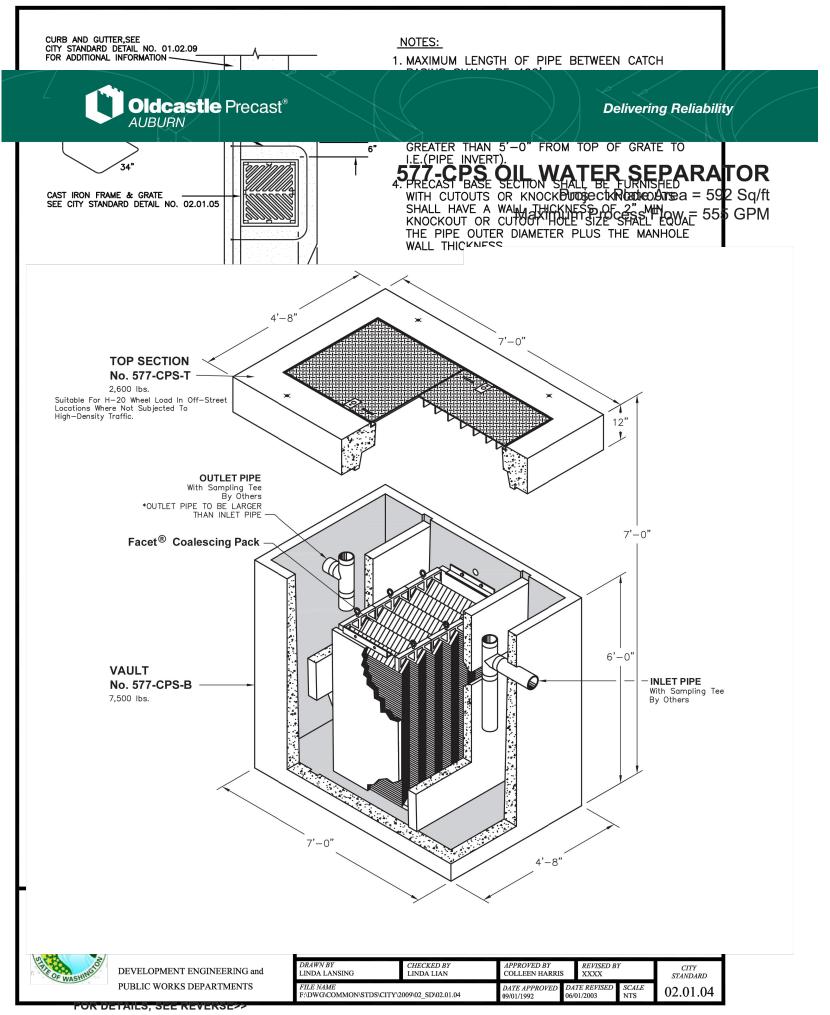
	CHECKED BY: AW	BP REPM:
	DRAWN BY: MM	ALLIANCE PM:
	VERSION:	PROJECT NO:
	_	21730
	DRAWING TITLE:	
- 1	D D A IN I A O	E DETAIL O

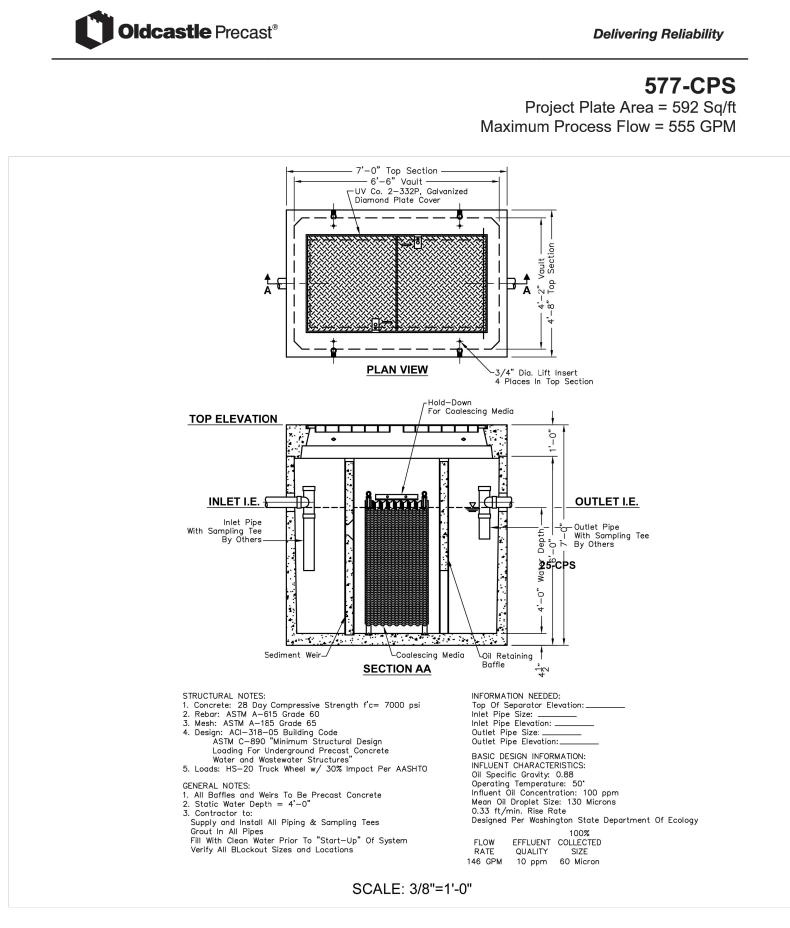
DRAINAGE DETAILS

DRAINAGE DETAILS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

© 1995-2016 Oldcastle Precast, Inc.





142.1

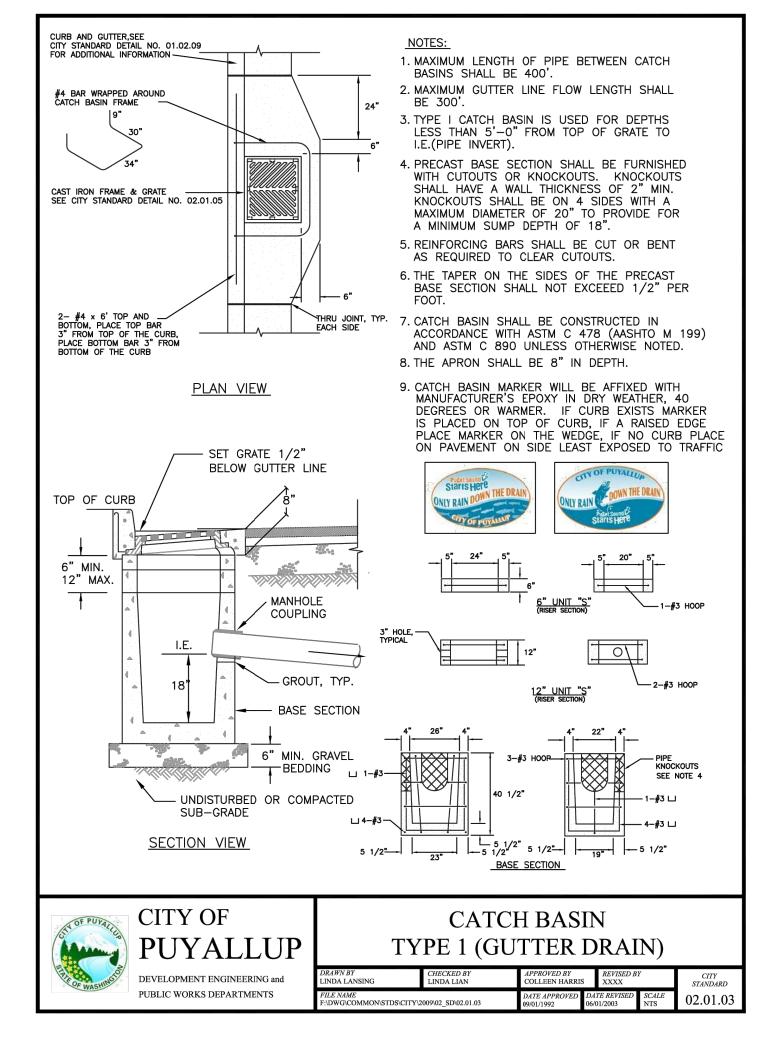
OLDCASTLE PRECAST 577-CPS

SCALE: NTS

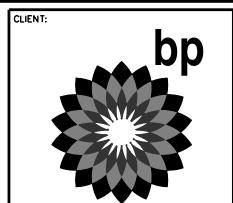
opauburn.com

© 1995-2016 Oldcastle Precast, Inc.

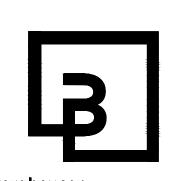
opauburn.com











Barghausen
Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 **barghausen.com**

NO.	DATE	REVISION DESCRIPTION
$\overline{\Box}$		
2		
3		
4		
<u></u>		
6		
<u>^</u>		
8		
9		
10		
<u></u>		
12		
SEAL:	•	



10/4

ARCO NTI

3400 am/pm
FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN
@ HIGHWAY 512
PUYALLUP, WASHINGTON

FACILITY #TBD

		IVIIVI	
	CHECKED BY:	AW	BP REPM:
7	DRAWN BY:	ММ	ALLIANCE PM:
l	VERSION:		PROJECT NO:
		-	21730

DRAINAGE DETAILS

BY ______ CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

MANAGER.

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

APPROVED

RESPONSIBLE FOR ERRORS
AND/OR OMISSIONS ON THESE
PLANS.
FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
DEVELOPMENT ENGINEERING

UTILITY CONFLICT NOTE:

Items Shown Are Subject To Change Without Notice

Fax: 253-735-4201

Email: opauburn@oldcastle.com

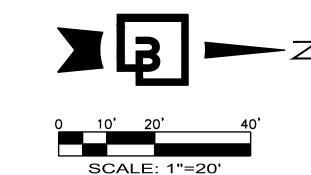
Issue Date: April 2016

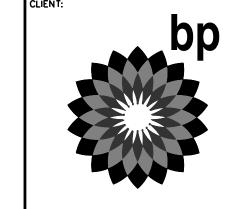
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



DRAINAGE PROFILE - CB #4 TO SDMH #1

ARCO ampm PUYALLUP
SEC. 33, TWN. 20 N, RGE. 4 E, W.M.
CITY OF PUYALLUP, PIERCE COUNTY









Consulting Engineers, Inc.
18215 72nd Avenue South

Kent, WA 98032 425.251.6222 barghausen.com





10/4/2

DEVELOPMENT INFORMATION:

ARCO NTI

3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN

@ HIGHWAY 512
PUYALLUP, WASHINGTON

FACILITY #TBD

DESIGNED BY:	MM	ALLIANCE Z&DM:
CHECKED BY:	AW	BP REPM:
RAWN BY:	MAKA	ALLIANCE PM:
ERSION:	_	PROJECT NO:
	-	21730
DAMMAC TIT	I F.	

DRAINAGE PROFILE - CB #4 TO
SDMH #1

DEVELOPMENT ENGINEERING
SDMH #1
DATE _____

APPROVED

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

BY _____CITY OF PUYALLUP

DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

DETERMINED BY THE

MANAGER.

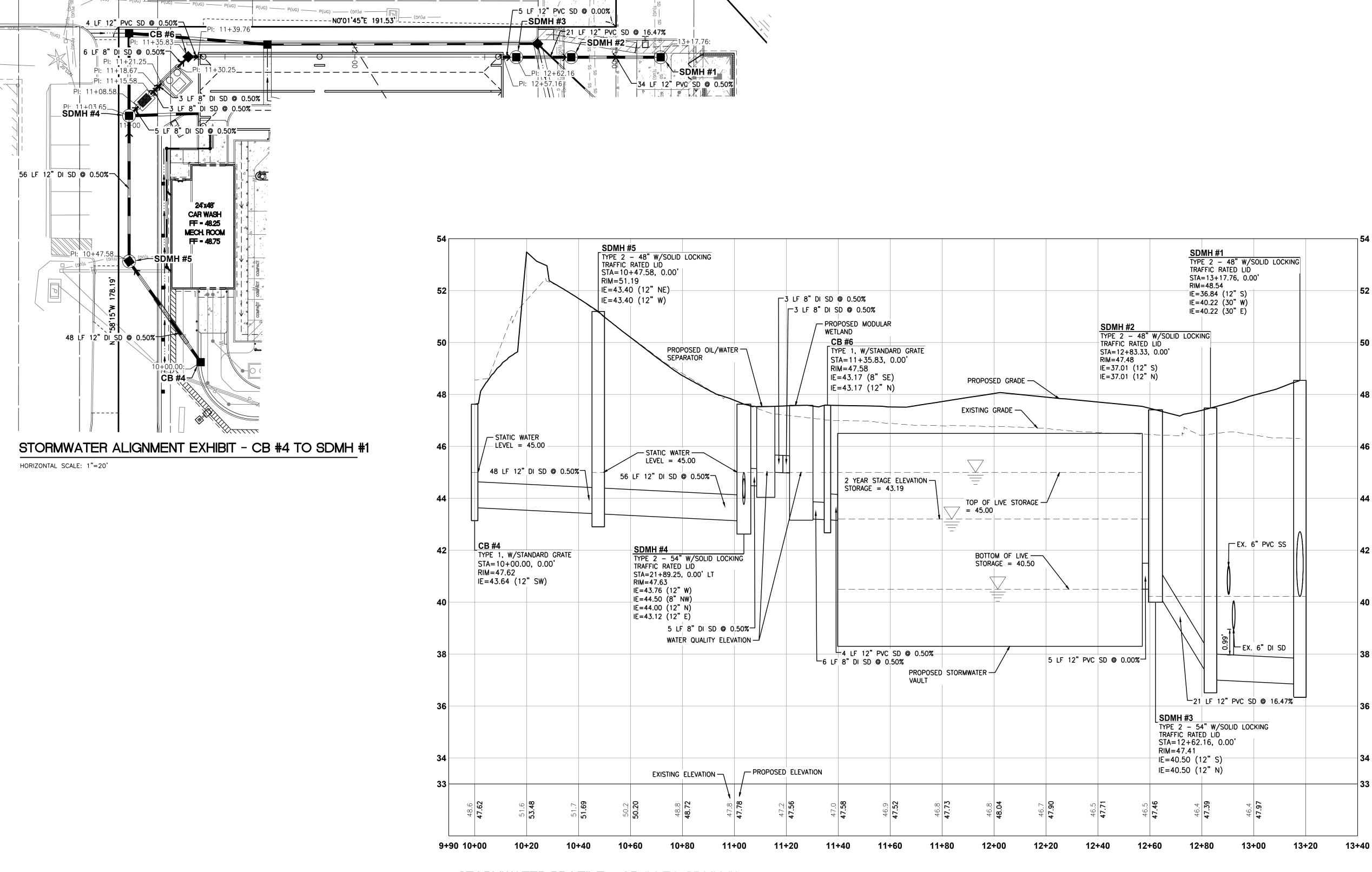
AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

SHEET NO:

C5.8



STORMWATER PROFILE - CB #4 TO SDMH #1

HORIZONTAL SCALE: 1"=20", VERTICAL SCALE: 1" = 2'

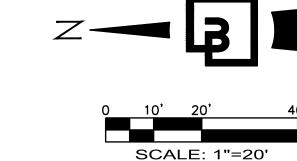
UTILITY CONFLICT NOTE:

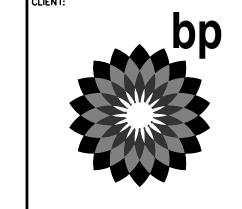
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

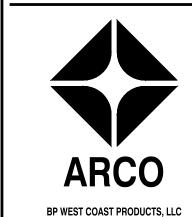


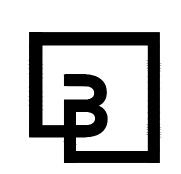
DRAINAGE PROFILE - CB #3 TO SDMH #4

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY









Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
5		
6		
<u> </u>		
8		
9		
10		
<u></u>		
12		
SEAL:		



DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD DESIGNED BY: MM ALLIANCE Z&DM:

HECKED BY:	AW	BP REPM:
RAWN BY:	ММ	ALLIANCE PM:
ersion:		PROJECT NO:
	-	21730
RAWING T	ITLE:	

DRAINAGE PROFILE - CB #3 TO SDMH #4

APPROVED

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

CITY OF PUYALLUP

DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

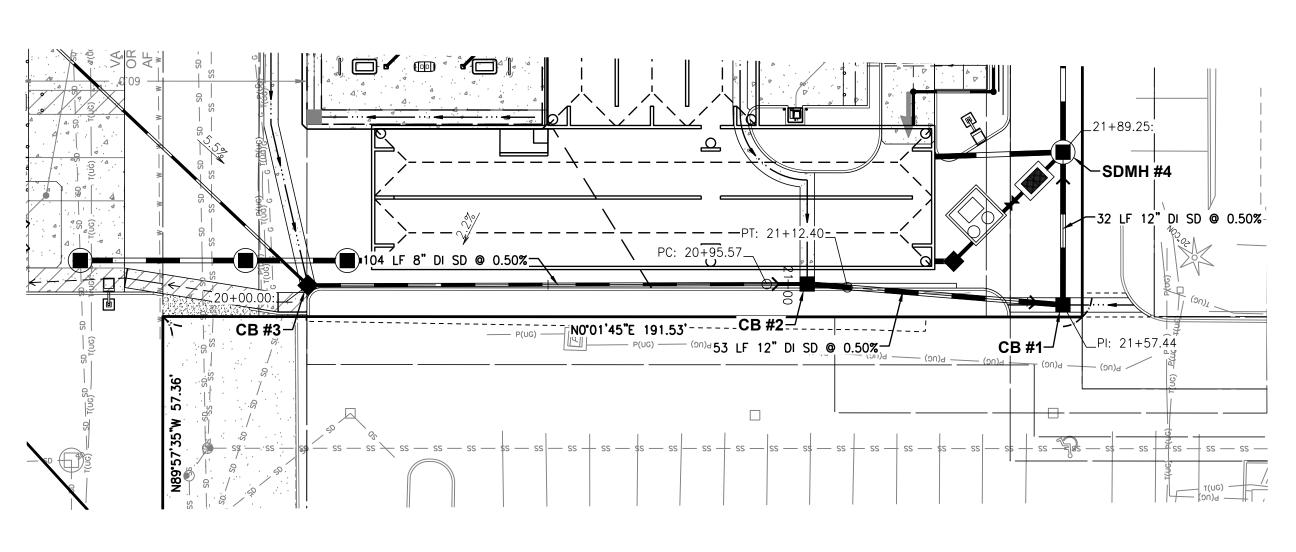
DETERMINED BY THE

MANAGER.

AND/OR OMISSIONS ON THESE

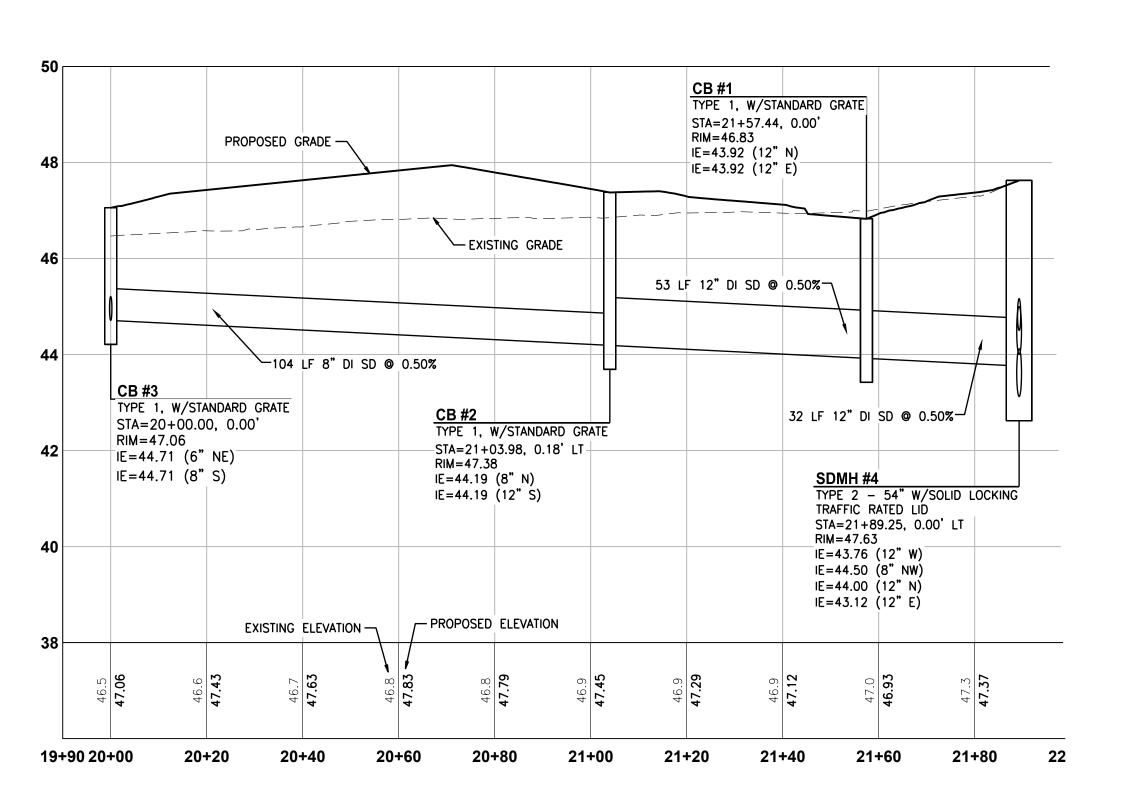
DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS



STORMWATER ALIGNMENT EXHIBIT - CB #3 TO SDMH #4

HORIZONTAL SCALE: 1"=20"



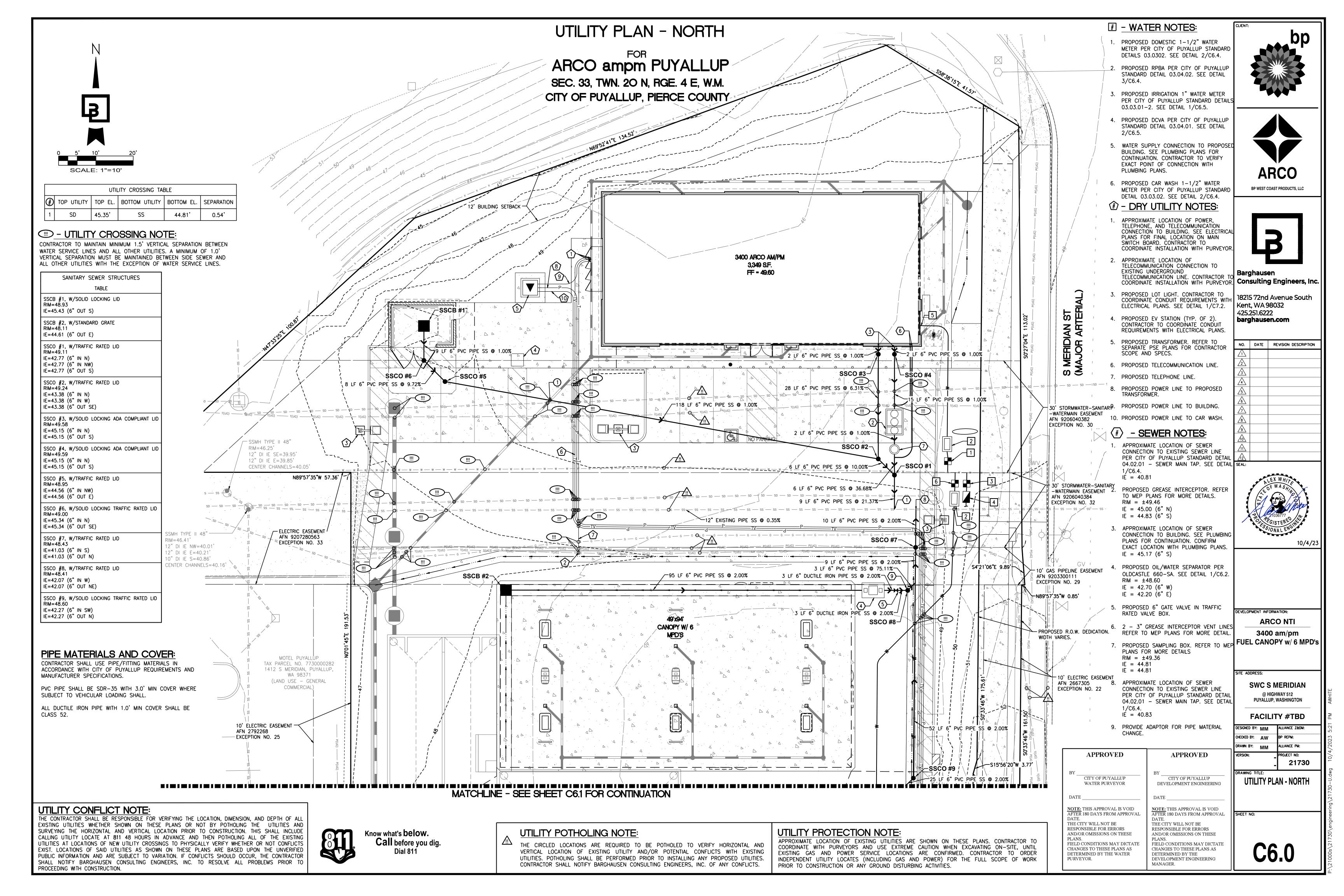
STORMWATER PROFILE - CB #3 TO SDMH #4

HORIZONTAL SCALE: 1"=20", VERTICAL SCALE: 1" = 2'

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.







BP WEST COAST PRODUCTS, LLC

Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO. DATE REVISION DESCRIPTION



10/4/2

DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: **SWC S MERIDIAN** @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

LIANCE PM: 21730

UTILITY PLAN - SOUTH

APPROVED

CITY OF PUYALLUP

CITY OF PUYALLUP - WATER SYSTEM NOTES:

- 1. 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 24. SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR 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.
- 3. 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").
- 4. 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.
- 6. 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.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. 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 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.
- 10. 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.
- 11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEF AND TAPPING VALVE AND SHALL BE MADE 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.
- 12. 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
- 13. 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.
- 14. 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.
- 15. 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.
- 16. PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFIRMING TO AWWA SPECIFICATION C111-72.
- 17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 26.c. 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINES, 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.
- 19. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- 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.
- 21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- 22. HYDRAULIC FIRE FLOW MODELING SHALL BE REQUIRED FOR FORMAL PLATS WITHIN OR TO BE ANNEXED INTO THE CITY OF PUYALLUP'S WATER SERVICE AREA. THE DEVELOPER SHALL BE RESPONSIBLE TO APPLY FOR A HYDRAULIC MODEL PERMIT PRIOR TO PLAT REVIEW. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED WATER

- DEMAND WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH (PSI) 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 ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.
- 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.
- 25. 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.)

25.a. <u>REPAIR WITHOUT DEPRESSURIZATION</u>-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 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)
- 25.b. <u>REPAIR/CUT-IN WITH DEPRESSURIZATION</u>-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 EXIST HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINE IN THE "WATER MAIN BREAK PROCEDURE."

26. NEW WATER MAIN INSTALLATION:

26.o. 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

AKEA	ARLA.						
65%	CALCIUM	HYPOCHLORITE	ADDITION	PER	PIPE	SECTION	

0070 O/1L	63% CAEGON THE CONCORDE ABBITION TEXT IN E. SECTION					
	PIPE	5-GRAM		HLORITE IULES		
PIPE DIAMETER (INCHES)	VOLUME PER 18 FEET (GAL)	TABLETS PER PIPE SECTION	OUNCES PER 500 FEET	TEASPOO NS 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	

- 26.b. NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SOT THAT AS THE WATER MAIN IS FILLED, THE CHLORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SOT HAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOFICAL TESTS SHALL BE COMPETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW WATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
- THE CHOLRINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM 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 CIRCUMSTANCES SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SITE WITHIN A NEW WATER MAIN FOR MORE THAN
- 20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, 26.d. 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 ABACK SIDE OF THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TEST <u>AT ALL TIMES</u>. 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.
 - 26.e. AFTER SUCCESSFUL PRESSURING 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

UTILITY CONFLICT NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI

EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



UTILITY NOTES AND DETAILS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

(FPS). ALL FLUSHED WATER SHALL BE DECHOLRIINATED 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 ON-SITE 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 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

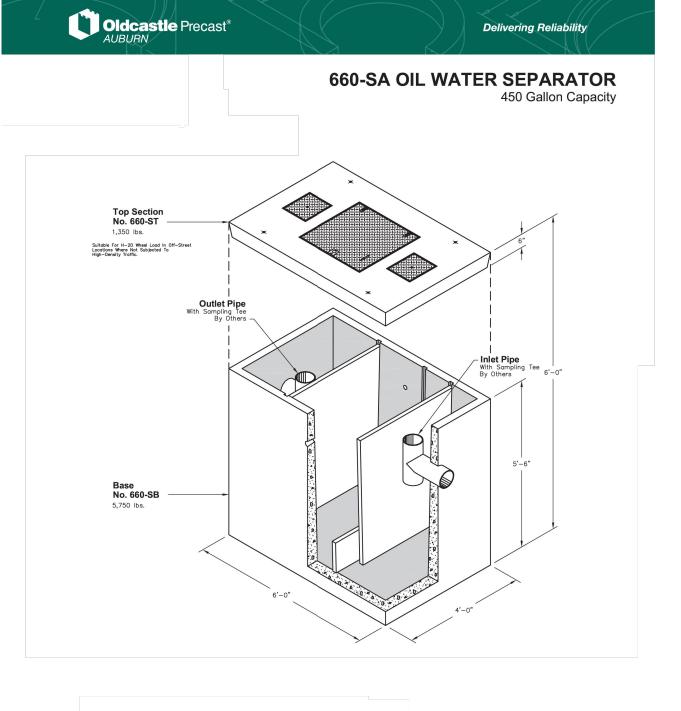
- PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF
- 26.g. ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY 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.

CITY OF PUYALLUP - SANITARY SEWER 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.
- 3. 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")
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. 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.
- 6. 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.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
- 9. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
- 10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR35 FOR PIE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM EPOXY LINING OR EQUIVALENT, UNLESS OTHERWISE NOTED. 12-INCH THROUGH 30-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. 36-INCH THROUGH 60-INCH PP PIPE SHALL BE TRIPLE WALLED AND MEET WSDOT 9-05.24(2) IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PII WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417. TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 06.01.01. MINIMUM COVER ON PVC AND PP PIE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- 11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
- 12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04, ALL MANHOLES SHALL BE CHANNELED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.03.
- 13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES WITH THE EXCEPTION OF SIDE SEWERS THAT PROVIDE SERVICE TO A SINGLE-FAMILY RESIDENCE. AT THE DISCRETION OF THE REVIEW ENGINEER, A LICENSE PROFESSIONAL ENGINEER WILL BE REQUIRED TO STAMP THE DESIGN TO ACCOUNT FOR DEPTH OR PROXIMITY TO FOUNDATION, STEEP SLOPES, OR OTHER FACTORS.
- 14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED

ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.

- 15. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM
- 16. ONCE SEWER AND ALL OTHER UTILITY CONSTRUCTION IS COMPLETED, ALL SANITARY SEWER MAINS AND SIDE SEWERS SHALL BE TESTED PER SECTION 406 OF THE CITY STANDARDS



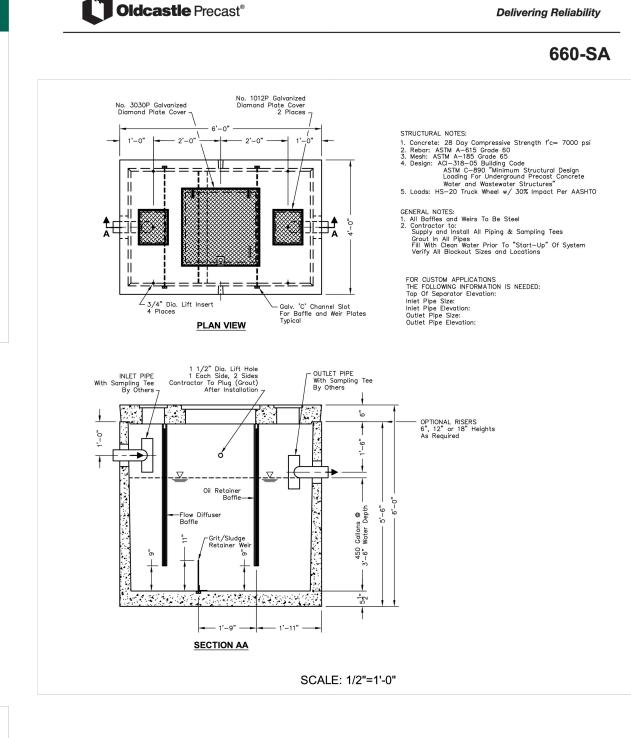
Non Skid Covers Available

FOR DETAILS, SEE REVERSE>

 Mailing Address
 Phone: 800-892-1538

 PO Box 588
 Fax: 253-735-4201

 Auburn, WA 98071
 Email: opauburn@oldcastle.com



APPROVED

CITY OF PUYALLUP

WATER PURVEYOR

NOTE: THIS APPROVAL IS VOID

THE CITY WILL NOT BE

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DETERMINED BY THE WATER

FIELD CONDITIONS MAY DICTATE

AFTER 180 DAYS FROM APPROVAL

© 1976-2016 Oldcastle Precast, Inc. © 1976-2016 Oldcastle Precast, Inc. opauburn.com opauburn.com

OLDCASTLE 660-SA OIL/WATER SEPARATOR C6.2 / SCALE: NTS







Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent. WA 98032 425,251,6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
<u></u>		
6		
<u>^</u>		
8		
9		
10		
<u></u>		
12		
SEAL:		
	A STAN	EX WHITE



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

SITE ADDRESS: **SWC S MERIDIAN** @ HIGHWAY 512

FUEL CANOPY w/ 6 MPD's

PUYALLUP, WASHINGTON **FACILITY #TBD**

DESIGNED BY: MM	ALLIANCE Z&DM:
CHECKED BY: AW	BP REPM:
PRAWN BY: MM	ALLIANCE PM:
/ERSION:	PROJECT NO:
-	21730
RAWING TITLE:	·

UTILITY NOTES AND DETAILS

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE

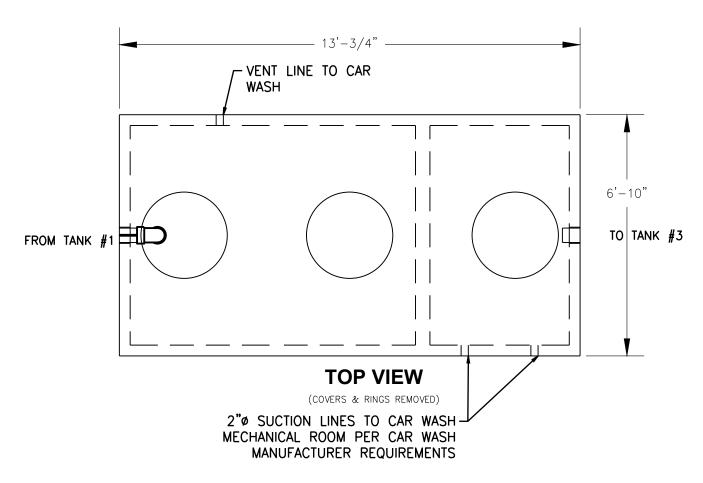
AFTER 180 DAYS FROM APPROVAL

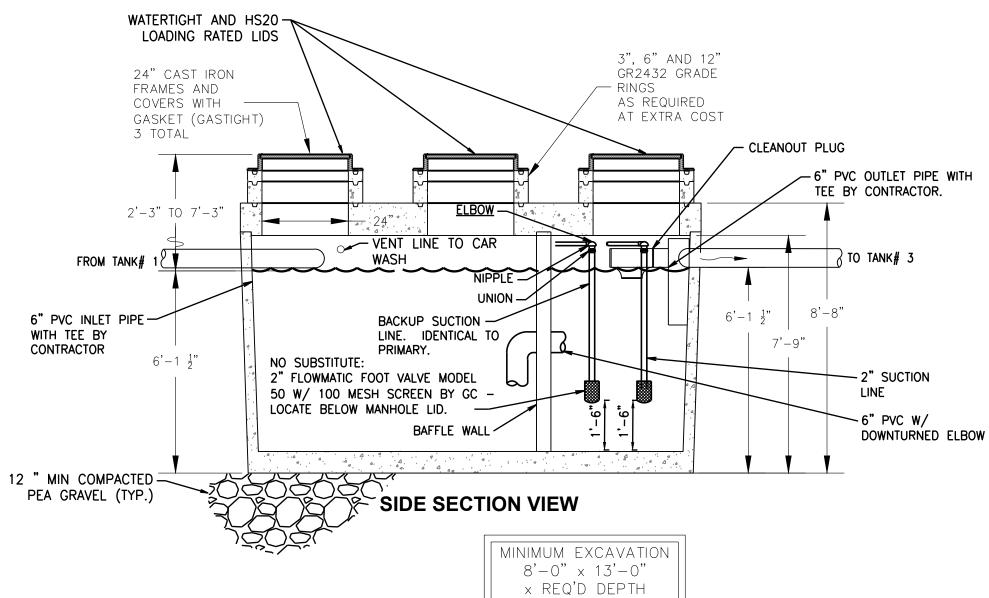
UTILITY DETAILS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

SPECIFICATIONS:

- 1. CONCRETE: DESIGN STRENGTH OF 5500 PSI AT 28 DAYS.
- 2. STEEL REINFORCEMENT: ASTM A-615 GRADE 60.
- 3. LOADING: DESIGNED FOR HS-20 LOADING.
- 4. C.I. CASTINGS: ASTM A-48 CLASS 30/35.





OPERATING CAPACITY: 1,500 GALLONS.

DESIGN LOAD: H-20 TRAFFIC WITH DRY SOIL CONDITIONS (WATER LEVEL BELOW TANK) AND 1'-6' EARTH COVER.

SUITABLE SUB-BASE BEDDED WITH GRANULAR MATERIAL SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT OLDCASTLE PRECAST.

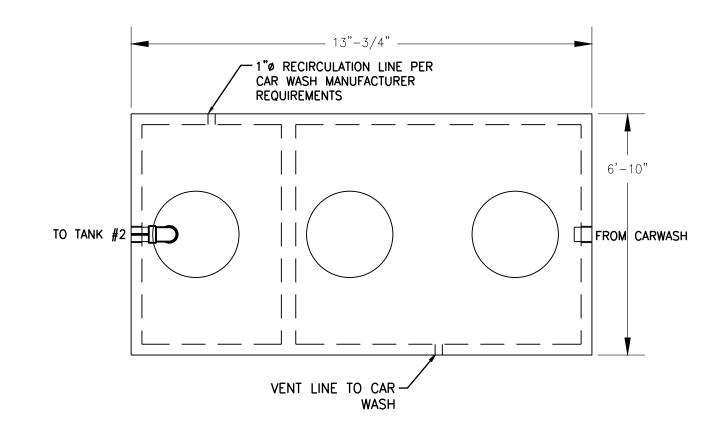
MODIFIED OLDCASTLE PRECAST 1500 GALLON

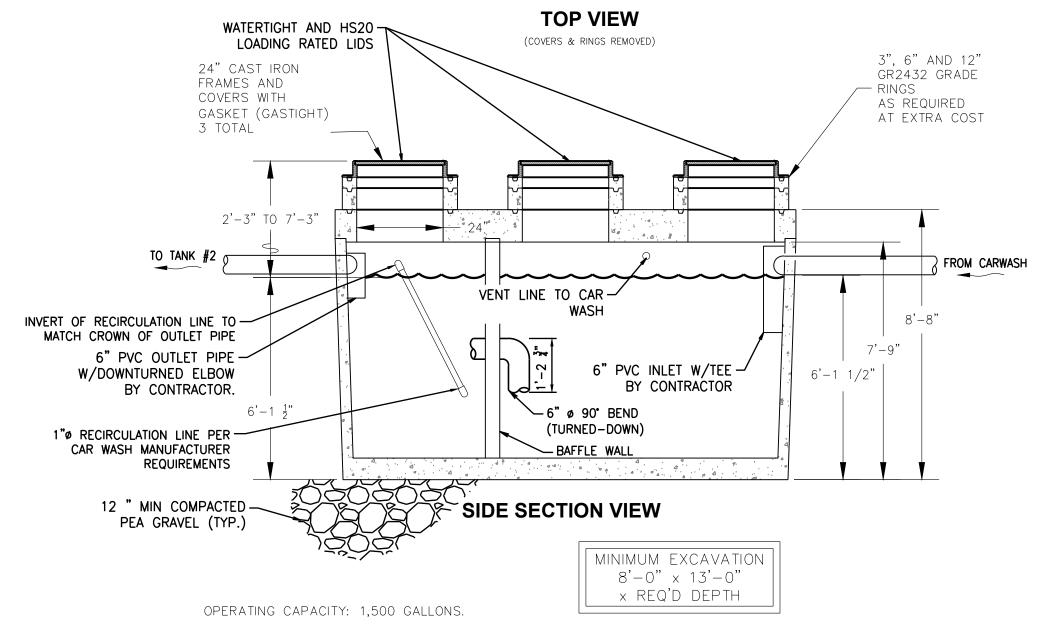
NOT TO SCALE MODEL NO. GT-1500

RECLAIM TANK #2 C6.3 | SCALE: NTS

SPECIFICATIONS:

- CONCRETE: DESIGN STRENGTH OF 5500 PSI AT 28 DAYS.
- 2. STEEL REINFORCEMENT: ASTM A-615 GRADE 60.
- 3. LOADING: DESIGNED FOR HS-20 LOADING.
- 4. C.I. CASTINGS: ASTM A-48 CLASS 30/35.





DESIGN LOAD: H-20 TRAFFIC WITH DRY SOIL CONDITIONS

(WATER LEVEL BELOW TANK) AND 1'-6' EARTH COVER. SUITABLE SUB-BASE BEDDED WITH GRANULAR MATERIAL SHALL BE PREPARED TO

HANDLE ANTICIPATED LOADS.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT OLDCASTLE PRECAST.

MODIFIED OLDCASTLE PRECAST 1500 GALLON

NOT TO SCALE MODEL NO. GT-1500

RECLAIM TANK #1 C6.3 SCALE: NTS

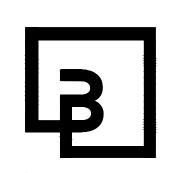
UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. Dial 811





Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
<u></u>		
6		
7		
8		
<u></u>		
10		
11		
12		
$\frac{2}{\Delta}$		



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

DESIGNED BY:	MM	ALLIANCE Z&DM:
CHECKED BY:	AW	BP REPM:
DRAWN BY:	ММ	ALLIANCE PM:
VERSION:	_	PROJECT NO:
	-	21730
DRAWING TIT	1 C -	•

UTILITY DETAILS

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

DETERMINED BY THE

MANAGER.

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

APPROVED

CITY OF PUYALLUP

WATER PURVEYOR

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

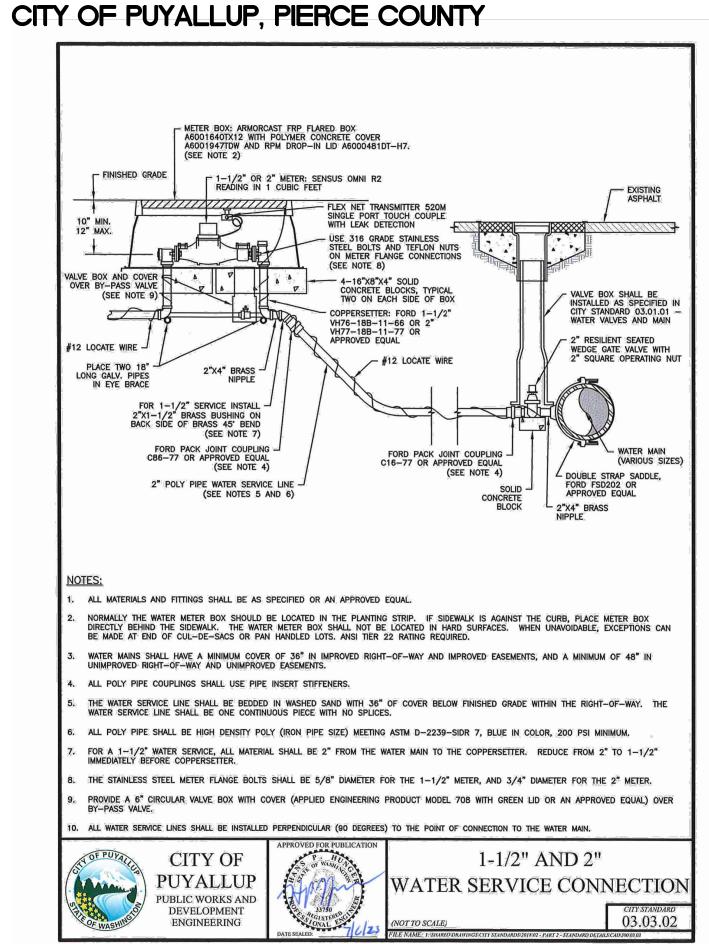
AND/OR OMISSIONS ON THESE

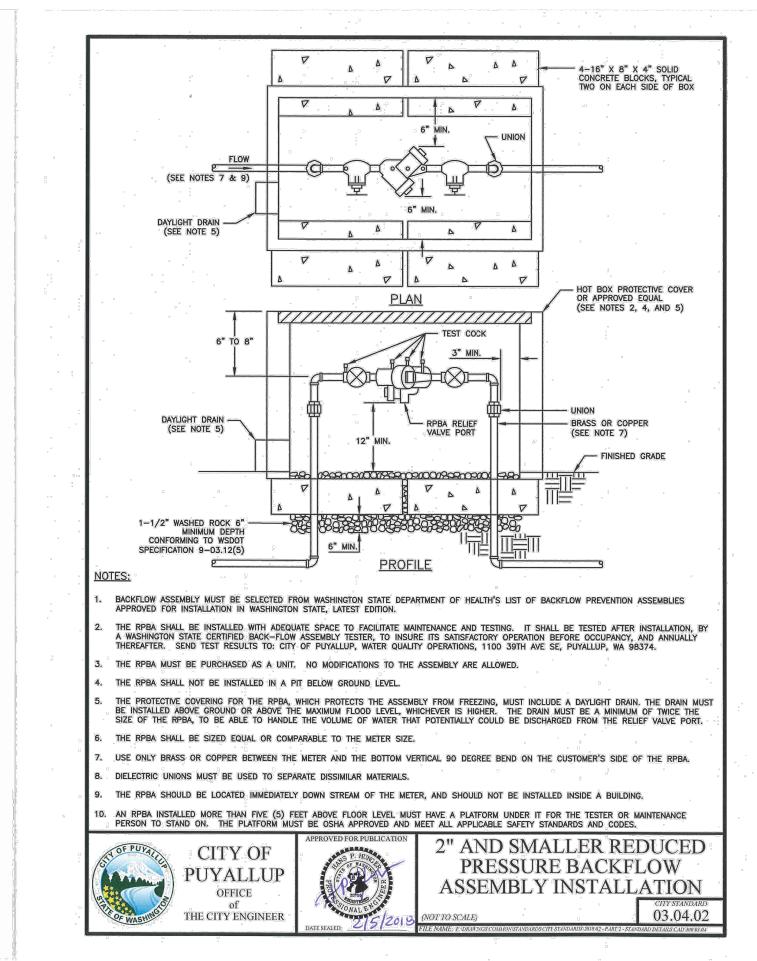
CHANGES TO THESE PLANS AS

DETERMINED BY THE WATER

FIELD CONDITIONS MAY DICTATE

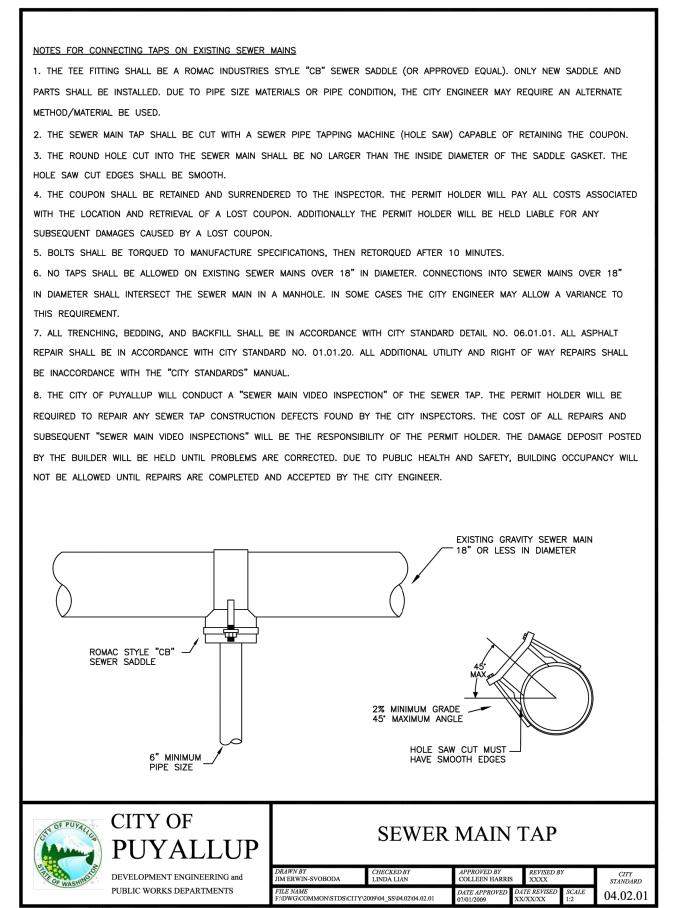
ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M.

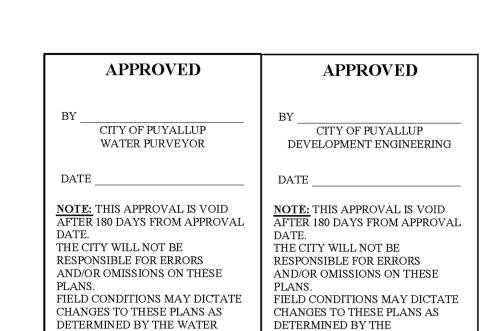




CITY OF PUYALLUP 2" AND SMALLER RPBA

CITY OF PUYALLUP 1-1/2" AND 2" WATER SERVICE CONNECTION SCALE: NTS



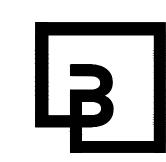


DEVELOPMENT ENGINEERING

MANAGER.

bp





Barghausen
Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 **barghausen.com**

NO.	DATE	REVISION DESCRIPTION
\triangle		
2		
$\sqrt{3}$		
4		
<u>5</u>		
<u>6</u>		
<u>^</u>		
8		
<u></u>		
<u> 100</u>		
<u> </u>		
12		
SEAL:		



10/4

DEVELOPMENT INFORMATION:

ARCO NTI

3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN
@ HIGHWAY 512
PUYALLUP, WASHINGTON

FACILITY #TBD
SIGNED BY: MM ALLIANCE Z&DM:

BP REPM:

RAWN BY: MM ALLIANCE PM:

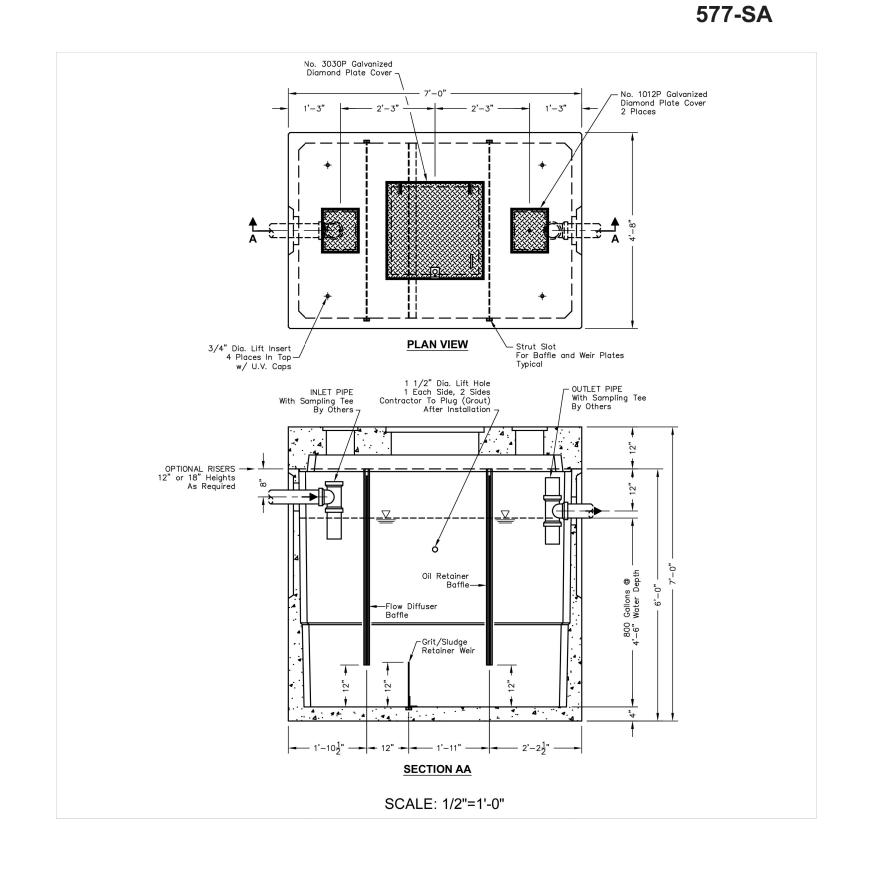
RSION:

PROJECT NO:

21730

UTILITY DETAILS

C6.4



opauburn.com

Oldcastle Precast®

OIL/WATER SEPARATOR TANK #3 MODIFIED OLDCASTLE PRECAST 800 GALLON

MODEL NO. 577-SA-800 NOT TO SCALE

1 RECLAIM TANK #3 SCALE: NTS

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



© 1995-2016 Oldcastle Precast, Inc.

Delivering Reliability

Know what's **below. Call** before you dig.

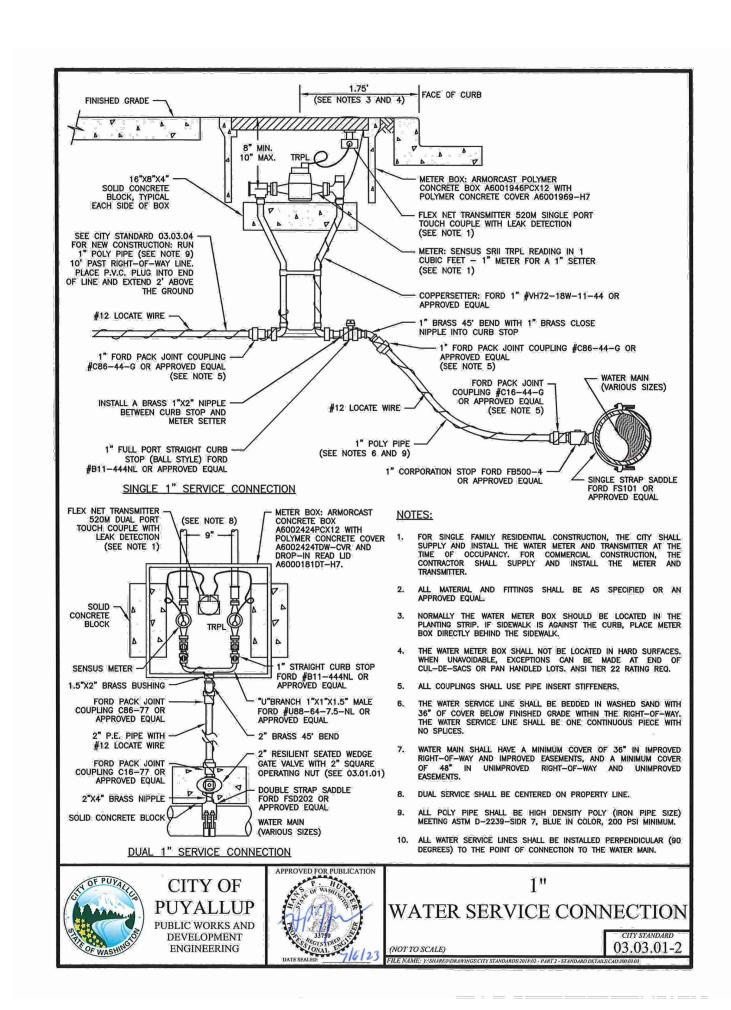
Dial 811

4 CITY OF PUYALLUP SEWER MAIN TAP

C6.4 SCALE: NTS

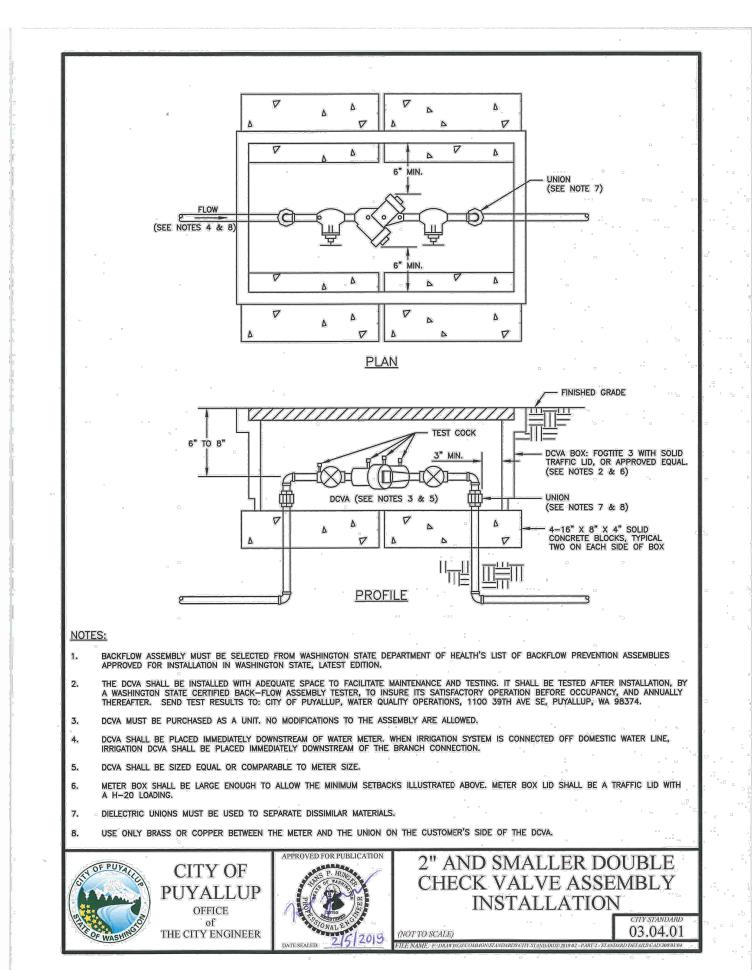
UTILITY DETAILS

ARCO ampm PUYALLUP
SEC. 33, TWN. 20 N, RGE. 4 E, W.M.
CITY OF PUYALLUP, PIERCE COUNTY



CITY OF PUYALLUP 1" WATER SERVICE CONNECTION

C6.5 SCALE: NTS



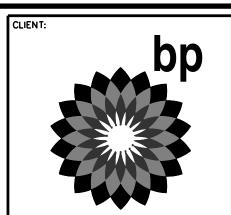
2 CITY OF PUYALLUP 2" AND SMALLER DCVA
C6.5 SCALE: NTS

UTILITY CONFLICT NOTE:

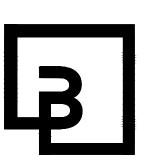
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's **below**. **Call** before you dig.







Barghausen
Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 **barghausen.com**

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
<u>/11</u>		
12		
SEAL:		



10/4

ARCO NTI

3400 am/pm
FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN

@ HIGHWAY 512
PUYALLUP, WASHINGTON

FACILITY #TBD

CHECKED BY:	AW	BP REPM:
DRAWN BY:	ММ	ALLIANCE PM:
VERSION:		PROJECT NO:
		_ 217
DRAWING TI	TLE:	

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

DATE.
THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

APPROVED

CITY OF PUYALLUP

WATER PURVEYOR

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DETERMINED BY THE WATER

FIELD CONDITIONS MAY DICTATE

DATE

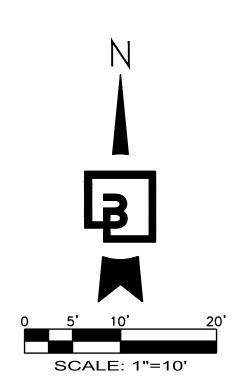
UTILITY DETAILS

SHEET NO:

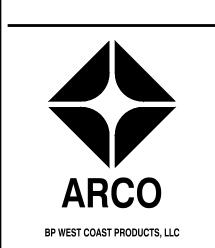
C6.5

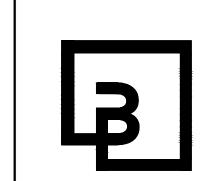
730\engineering\21730-U.dwg 10/4/2023 5:21 PM

SEWER PROFILE - BUILDING + TRASH ENCLOSURE



ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY





Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
$\sqrt{3}$		
4		
<u></u> 5		
<u>6</u>		
<u> </u>		
8		
<u></u>		
<u>/10\</u>		
<u></u>		
12		
SEAL:		



DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

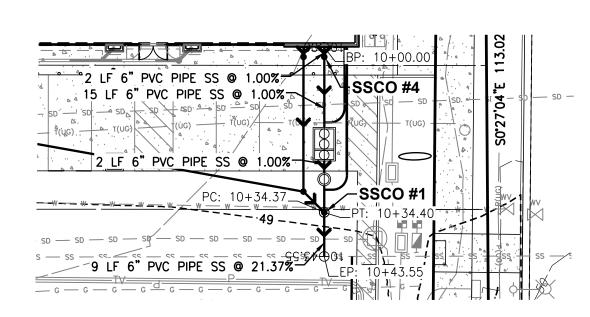
SITE ADDRESS: SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FUEL CANOPY w/ 6 MPD's

FACILITY #TBD

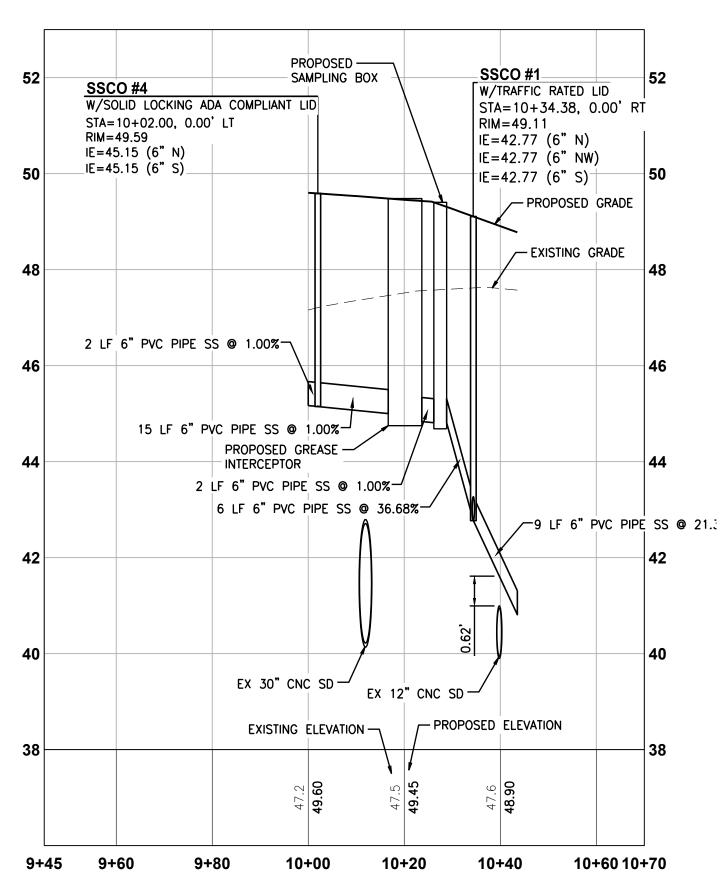
21730

SEWER PROFILE - BUILDING & TRASH ENCLOSURE



SANITARY SEWER BUILDING ALIGNMENT EXHIBIT - 10+00.00 - 10+43.55

HORIZONTAL SCALE: 1"=20'



HORIZONTAL SCALE: 1"=20", VERTICAL SCALE: 1" = 2'

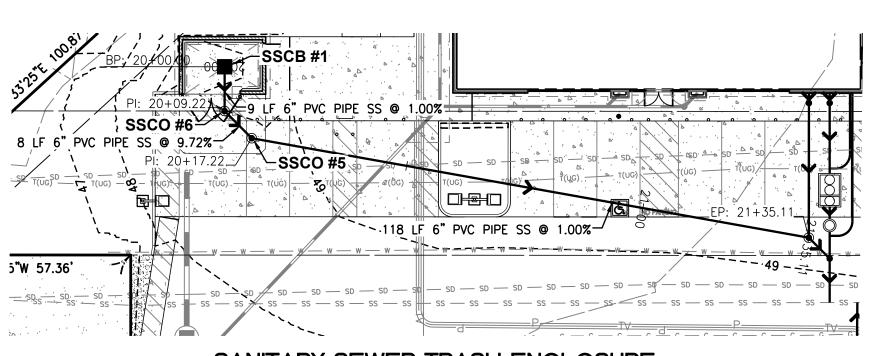


UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

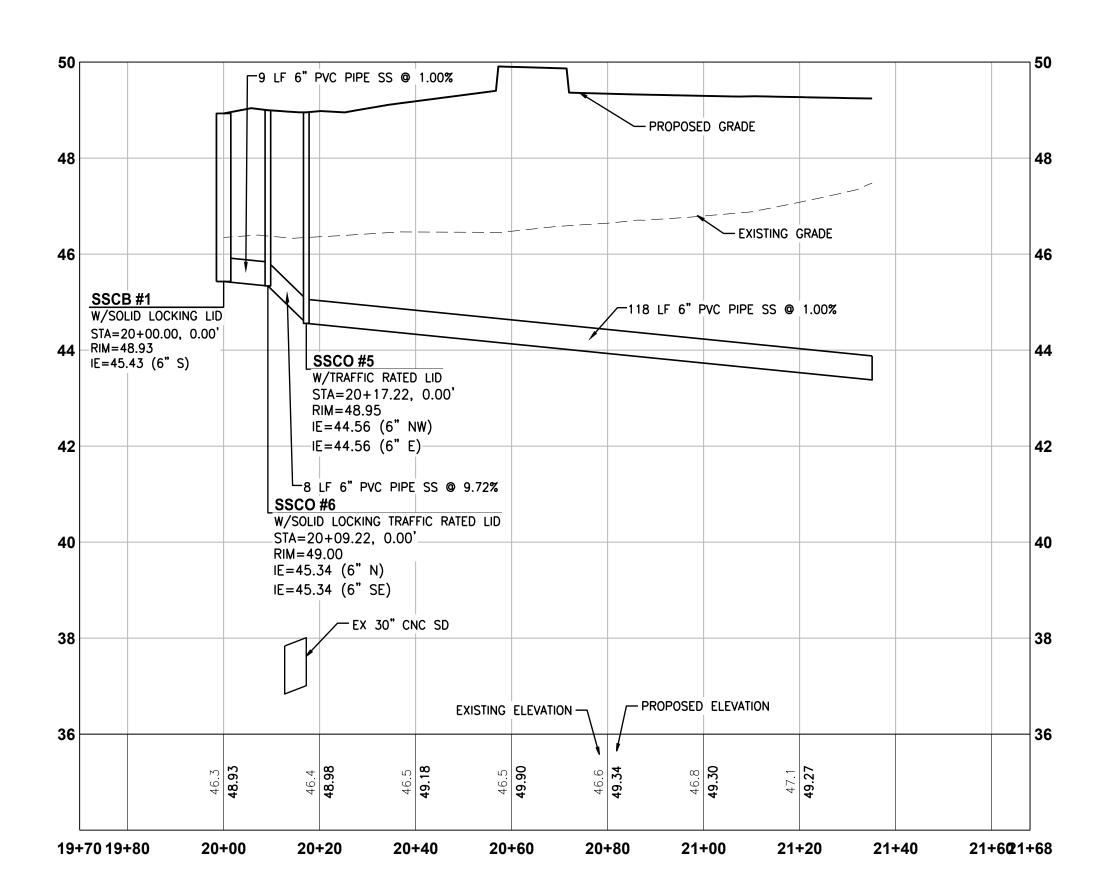


Know what's **below**. Call before you dig. **Dial 811**



SANITARY SEWER TRASH ENCLOSURE ALIGNMENT EXHIBIT - 20+00.00 - 21+66.27

HORIZONTAL SCALE: 1"=20"



SANITARY SEWER TRASH ENCLOSURE PROFILE - 20+00.00 - 21+66.27

HORIZONTAL SCALE: 1"=20", VERTICAL SCALE: 1" = 2"

APPROVED	APPROVED
BY CITY OF PUYALLUP WATER PURVEYOR	BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE	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	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

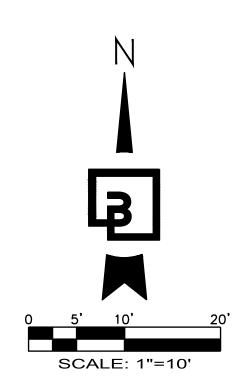
DETERMINED BY THE

MANAGER.

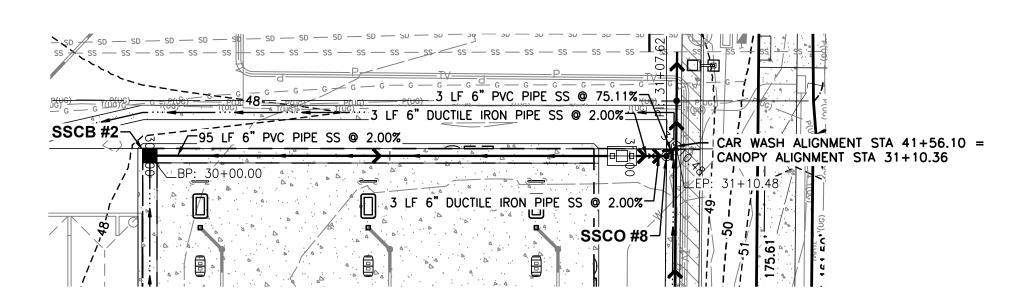
DEVELOPMENT ENGINEERING

DETERMINED BY THE WATER

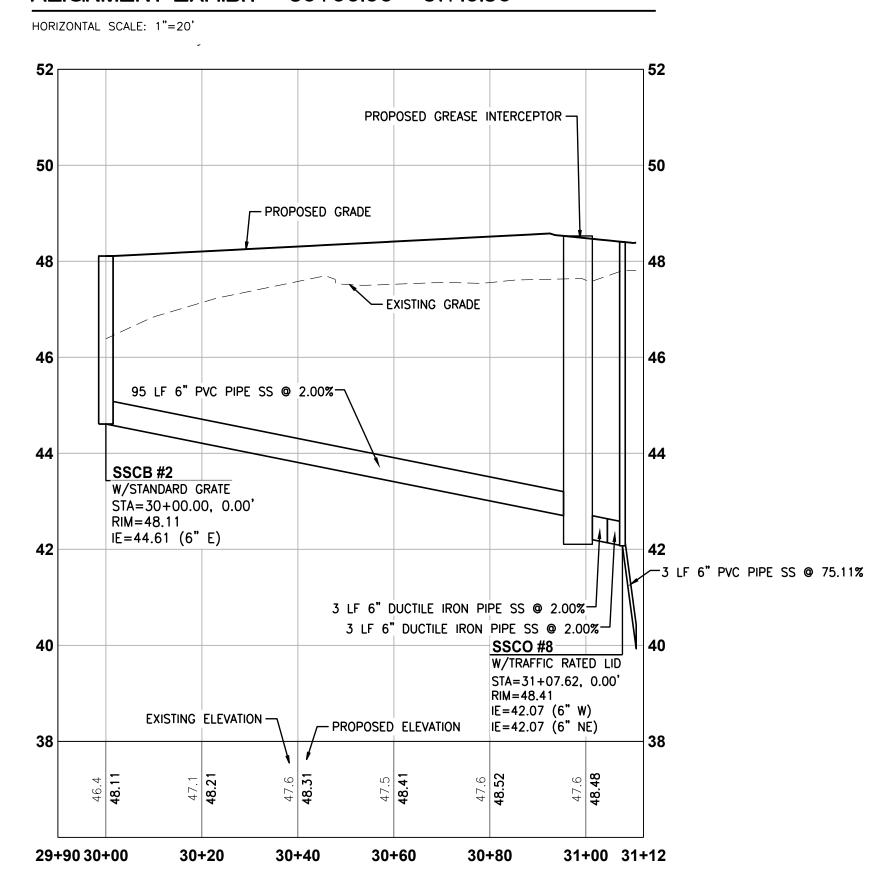
SEWER PROFILE - CANOPY + CAR WASH



ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



SANITARY SEWER CANOPY ALIGNMENT EXHIBIT - 30+00.00 - 31+10.36



SANITARY SEWER

CANOPY PROFILE - 30+00.00 - 31+10.36

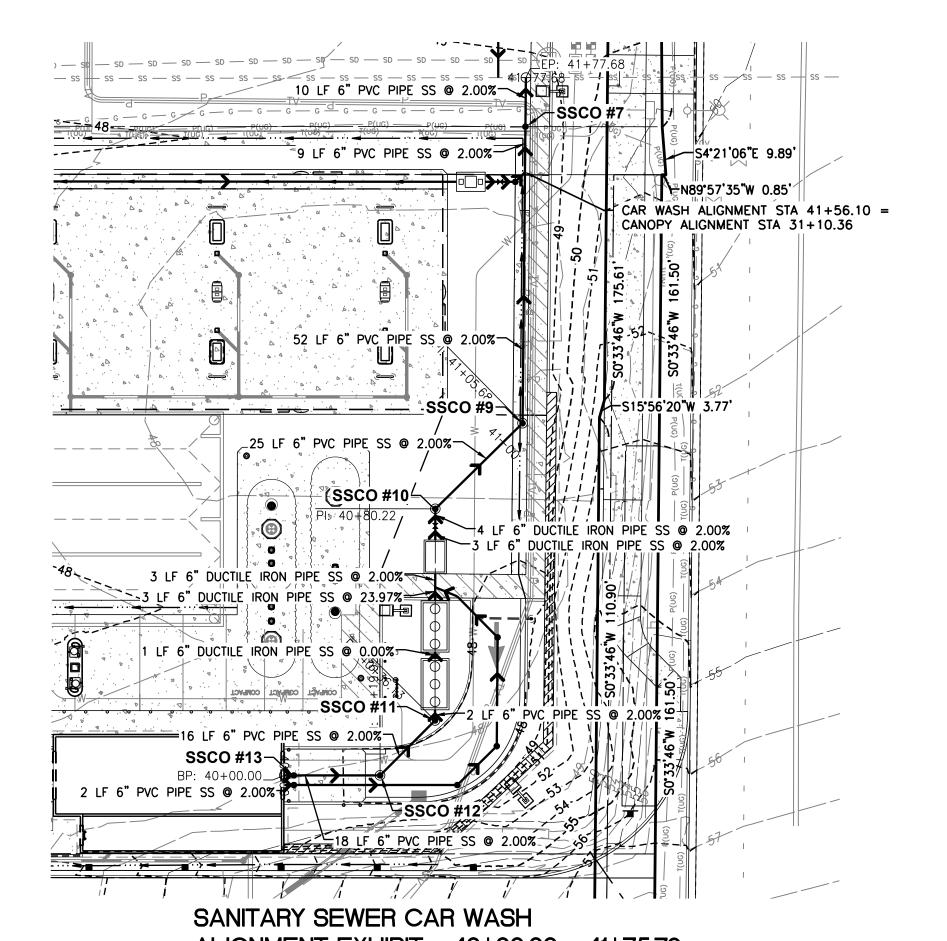
HORIZONTAL SCALE: 1"=20", VERTICAL SCALE: 1" = 2"

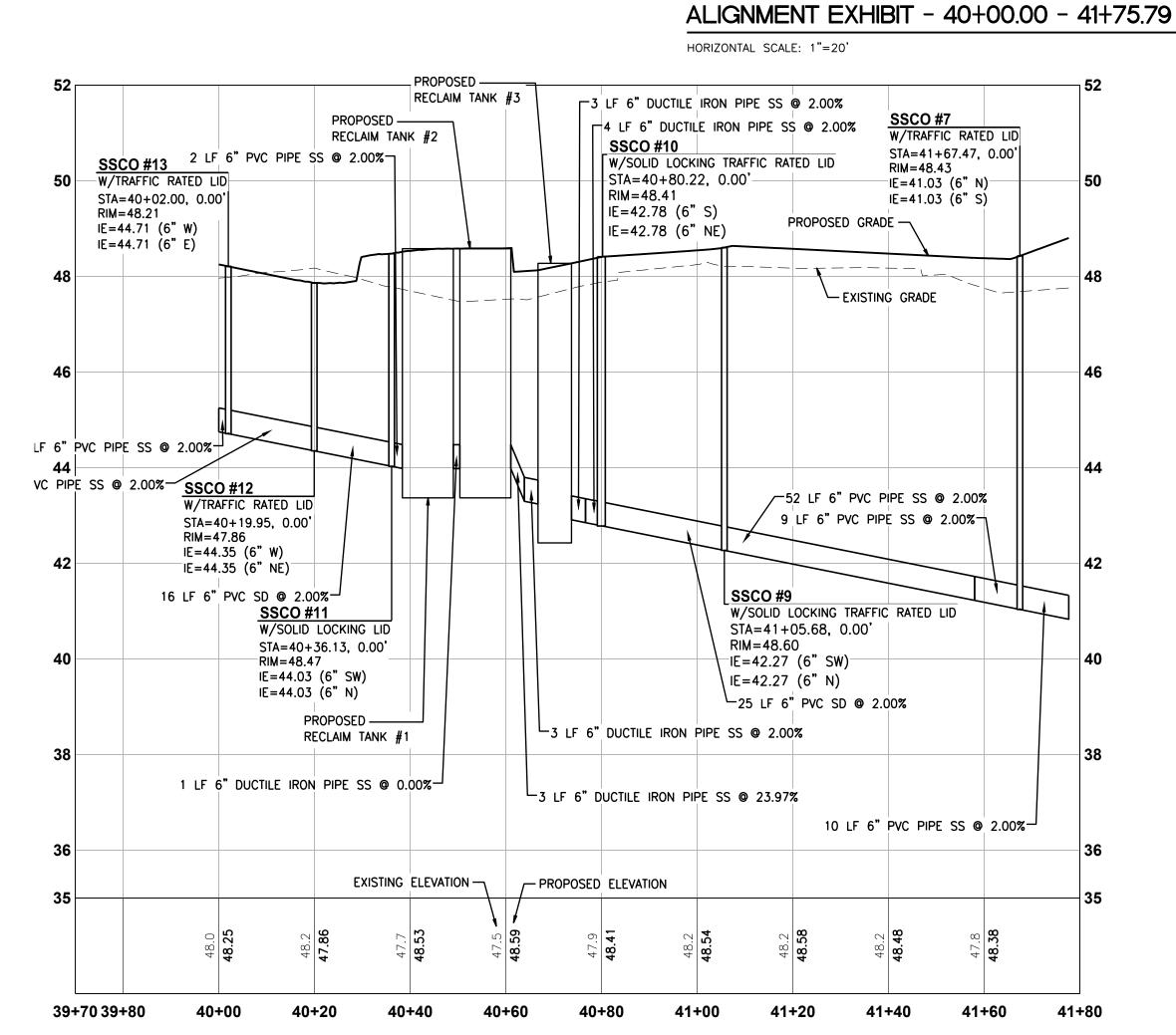
UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



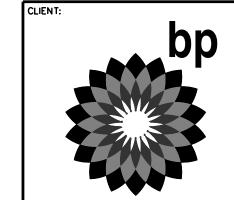
Know what's **below**. Call before you dig.



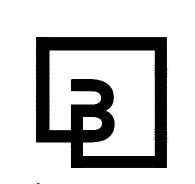


SANITARY SEWER CAR WASH PROFILE - 40+00.00 - 41+75.79

HORIZONTAL SCALE: 1"=20", VERTICAL SCALE: 1" = 2'







Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION		
2				
3				
4				
5				
6				
<i>^</i>				
8				
9				
10				
Î				
12				
SEAL:				



DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

LLIANCE PM: 21730

SEWER PROFILE - CANOPY & CAR WASH

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

DETERMINED BY THE

MANAGER.

APPROVED

CITY OF PUYALLUP

WATER PURVEYOR

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

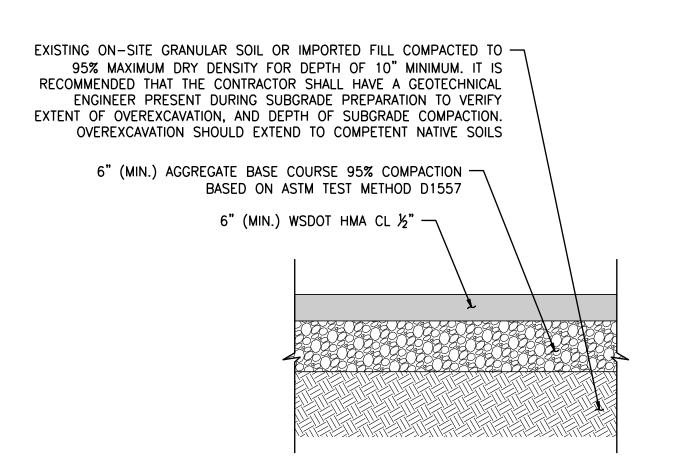
AND/OR OMISSIONS ON THESE

DETERMINED BY THE WATER

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M.

CITY OF PUYALLUP, PIERCE COUNTY



4" MIN. (COMPACTED DEPTH) PORTLAND -CEMENT CONCRETE PAVEMENT (PCC).

4" MIN. (COMPACTED DEPTH) CLASS —

6"x6"x6 GAUGE WELDED WIRE FABRIC -

TYPICAL SECTION

IN LAWN AREAS

1/2" EXPANSION JOINT —

(SEE NOTE #1)

SEATED AND SECURED ON STANDS

SUBGRADE SHOULD BE 12" THICK LIME-TREATED -

2 AGGREGATE BASE (AB)

NATIVE SOILS BROUGHT TO AT LEAST THE

SMOOTH TOOLED FINISH —

AROUND ALL EDGES (TYP)

OPTIMUM MOISTURE CONTENT AND UNIFORMLY COMPACTED PER THE GEOTECH REPORT

WITH 6X6 - W1.4XW1.4 W.W.F.

TOPSOIL (TYPICAL LANDSCAPE -

AREA) SLOPE TO 2" BELOW

THE TOP OF SIDEWALK

1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL ENGINEERING STUDY PREPARED BY KRAZAN & ASSOCIATES, INC. DATED MAY 6, 2022 FOR PAVEMENT, AGGREGATE, OVER-EXCAVATION AND SUBGRADE REQUIREMENTS.

6" DIA. BOLLARD ALONG SIDEWALK -

SEE SITE PLAN FOR WIDTH

SLOPE 0.5% MIN.

TYPICAL SECTION ADJACENT TO DRIVES

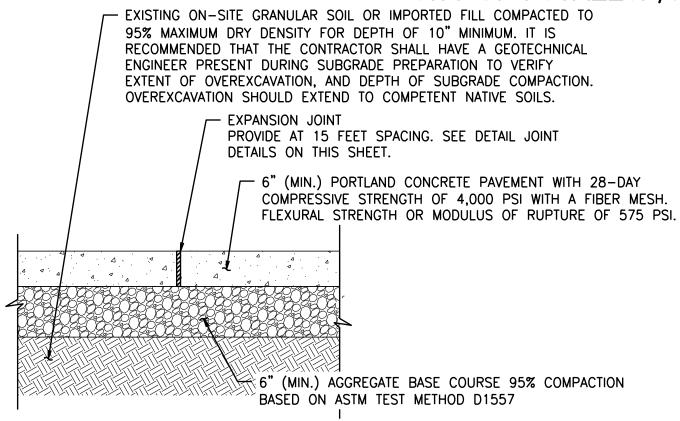
TOOLED JOINT >

1.5% MAX.

IF ADJACENT TO PARKING, REFER

TO DETAIL 4/CSD6.

1 ON-SITE ASPHALT SECTION C7.0 / SCALE: NTS



- CONSTRUCTION JOINT

SEE SITE PLAN

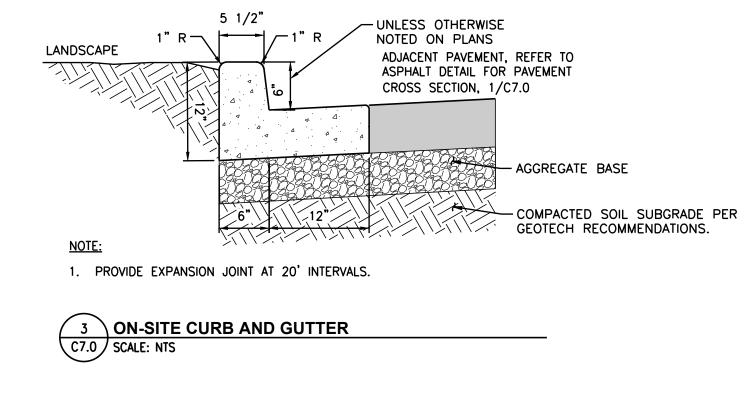
-1/2" CONTRACTION JOINT

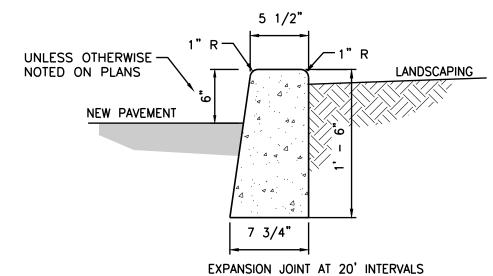
(SEE NOTE #1)

ADJACENT SURFACE.

1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL ENGINEERING STUDY PREPARED BY KRAZAN & ASSOCIATES, INC. DATED MAY 6, 2022 FOR PAVEMENT, AGGREGATE, OVER-EXCAVATION AND SUBGRADE REQUIREMENTS.

2 ON-SITE CONCRETE SECTION **C7.0** / SCALE: NTS





- INSTALL "SNAP CAP" OR EQUAL, REMOVE

AFTER CONCRETE HAS CURED AND FILL

1/2" EXPANSION JOINT MATERIAL

JOINT FILLER CAST IN PLACE

SHALL COMPLY WITH ASTM D1751.

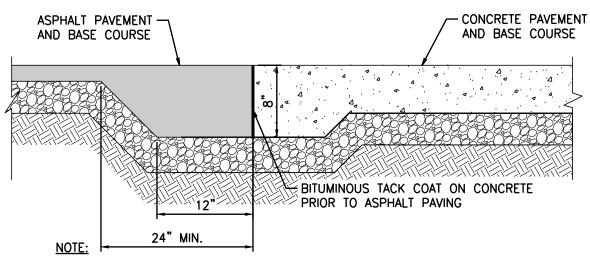
JOINT WITH SEALANT

NEW CONCRETE PAVEMENT

- 1/4" RADIUS (TYP.)

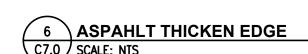
1. EXPANSION JOINT AT 20' INTERVALS.

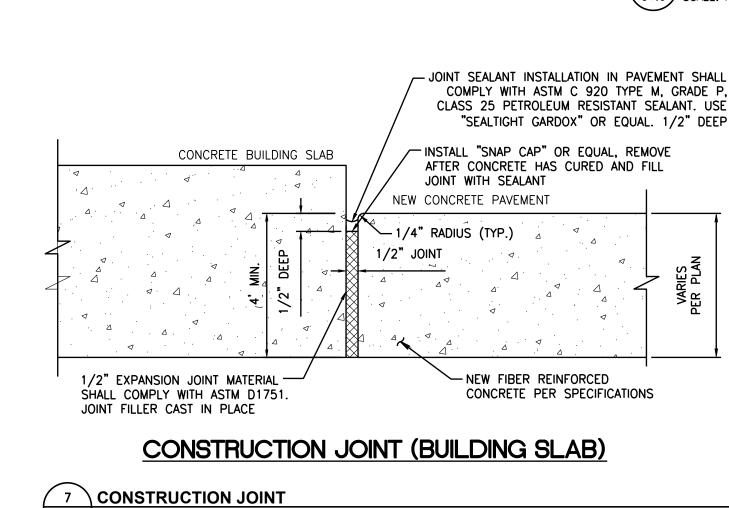
√ 4 \ ON-SITE BARRIER CURB C7.0 | SCALE: NTS



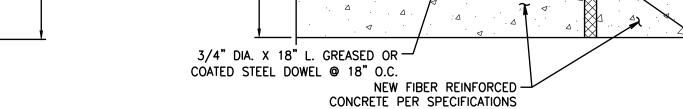
1. ASPHALT THICKEN EDGE IS REQUIRED AT ALL JUNCTIONS WITH WITH CONCRETE.

2. REFER TO ASPHALT AND CONCRETE DETAIL FOR REQUIRED PAVEMENT





C7.0 | SCALE: NTS



JOINT SEALANT INSTALLATION IN PAVEMENT SHALL -

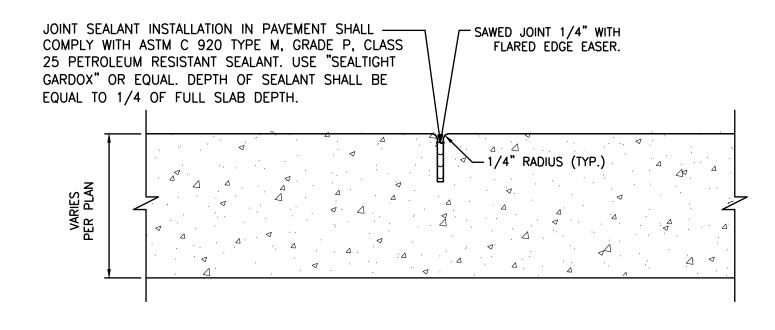
COMPLY WITH ASTM C 920 TYPE M, GRADE P,

"SEALTIGHT GARDOX" OR EQUAL. 1/2" DEEP

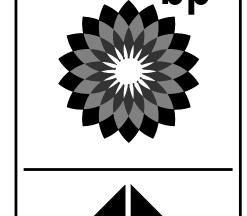
NEW CONCRETE PAVEMENT

CLASS 25 PETROLEUM RESISTANT SEALANT. USE

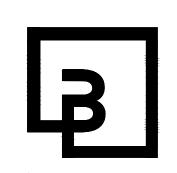
8 \ CONSTRUCTION JOINT C7.0 / SCALE: NTS



9 EXPANSION JOINT C7.0 SCALE: NTS

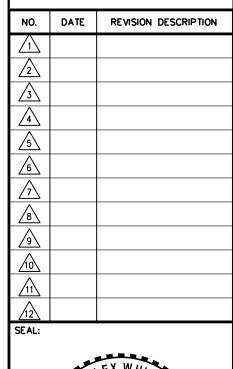






Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com





DEVELOPMENT INFORMATION:

ARCO NTI 3400 am/pm |FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

LIANCE PM: 21730

CONSTRUCTION **DETAILS**

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

DETERMINED BY THE

MANAGER.

1. SIDEWALKS VARY IN WIDTH. CONTROL JOINTS TO BE PLACED AT SPACING EQUAL TO SIDEWALK WIDTH.

VARIES, SEE NOTE 1

2. PROVIDE EXPANSION JOINTS AT 28' TO 30' O.C. MAXIMUM.

3. WHEN WALK IS ADJACENT TO THE BUILDING PROVIDE 3/8" X 4" IMPREGNATED FIBERBOARD.

4. ALL PORTLAND CEMENT CONCRETE PAVEMENT (PCC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT.

5. EDGES OF SIDEWALKS ADJACENT TO THE BUILDING SHOULD BE THICKENED TO AT LEAST TWICE THE SLAB THICKNESS (8 INCHES) FOR A HORIZONTAL DISTANCE OF 8"

5 \ ON-SITE CONCRETE SIDEWALK C7.0 SCALE: NTS

LIGHT BROOM FINISH (PERPENDICULAR -TO TRAVEL PATH). CONCRETE SURFACE

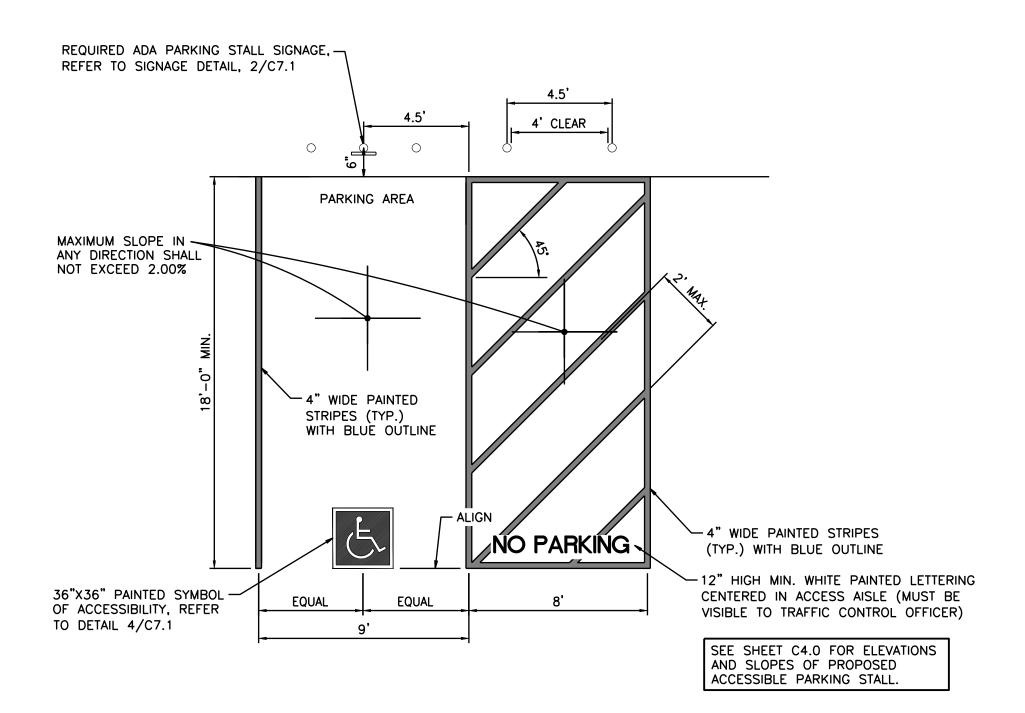
AREA INSIDE OF TOOLED EDGE TO CREATE PICTURE FRAME EFFECT

UTILITY CONFLICT NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

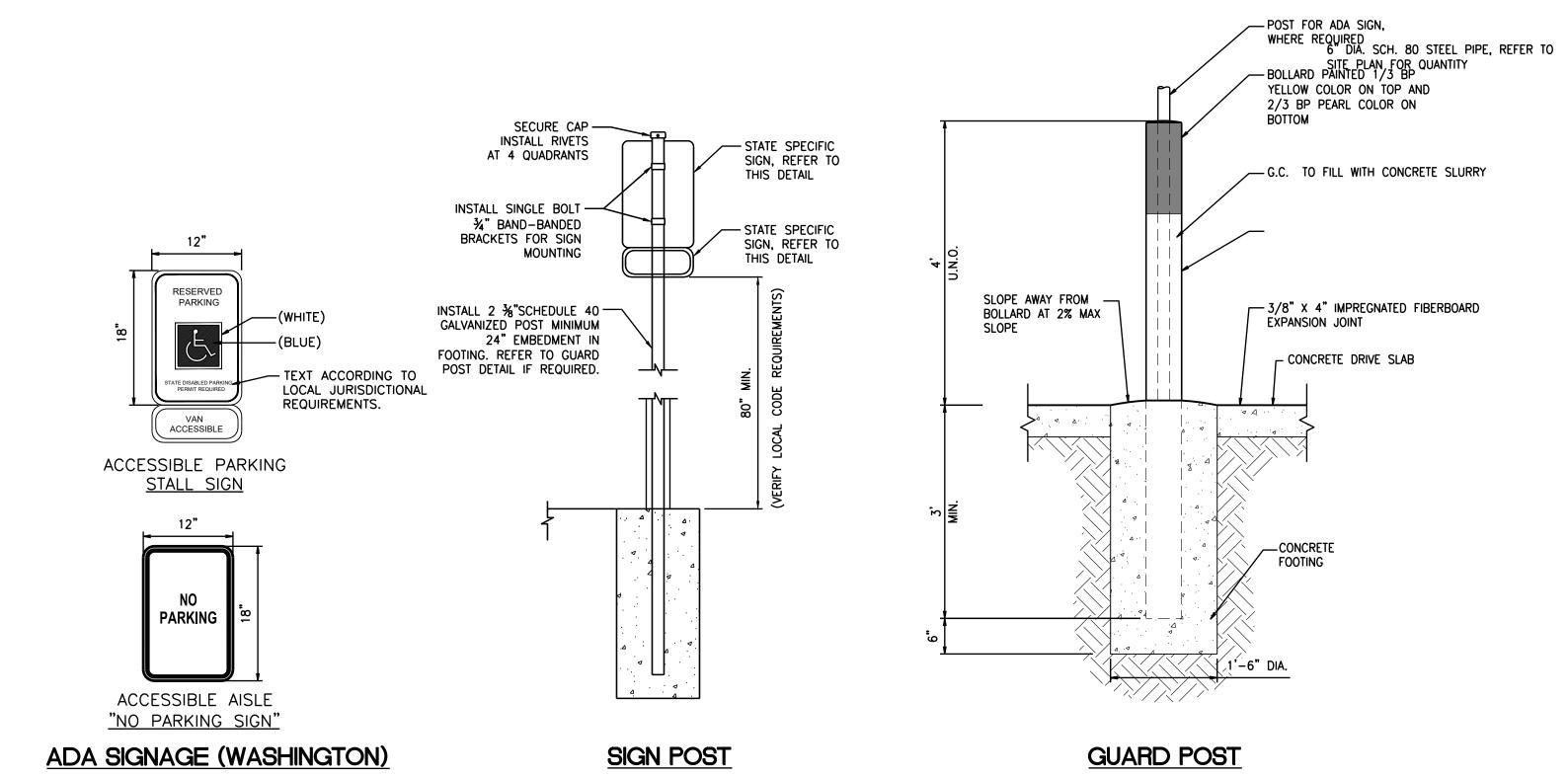


ARCO ampm PUYALLUP

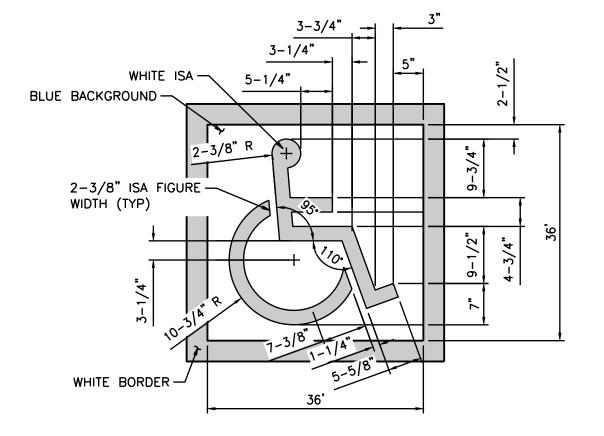
SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



1 ADA PARKING STALL AND AISLE REQUIREMENTS C7.1 SCALE: NTS



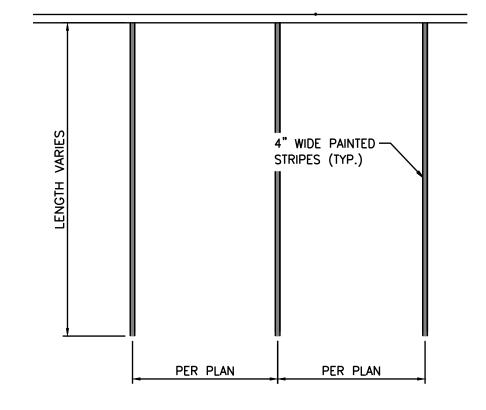
2 ADA SIGNAGE REQUIREMENTS
C7.1 SCALE: NTS



PROCEEDING WITH CONSTRUCTION.

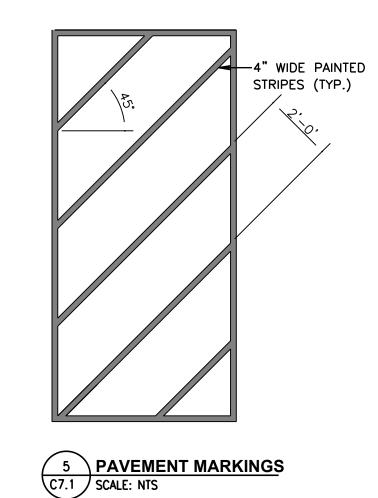
- SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL.
 BOTTOM OF SYMBOL TO BE LOCATED FLUSH WITH ACCESS DRIVE,
- CENTERED ON PARKING SPACE. 3. SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND.





2 COATS ALKYD TRAFFIC PAINT MARKING PAINT. COLOR: WHITE FOR PARKING STRIPES. 3. SEE SITE PLAN FOR WIDTH.





24" 24" **DETAIL NOTES:**

PER ARCO STANDARDS OR AS REQUIRED BY CITY CODE.

APPLY 2 COATS OF CHLORINATED RUBBER-TYPE TRAFFIC-LANE MARKING PAINT OVER

CLEANED PAVING SURFACE ACCORDING TO LAYOUT SHOWN ON THE SITE PLAN. PAINT

6 DIRECTIONAL ARROW C7.1 SCALE: NTS

APPROVED

BY ______CITY OF PUYALLUP

MANAGER.

DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

DEVELOPMENT ENGINEERING

ARCO

BP WEST COAST PRODUCTS, LLC

Consulting Engineers, Inc.

18215 72nd Avenue South

NO. DATE REVISION DESCRIPTION

Kent, WA 98032

barghausen.com

DEVELOPMENT INFORMATION:

SITE ADDRESS:

ARCO NTI

3400 am/pm

FUEL CANOPY w/ 6 MPD's

SWC S MERIDIAN

@ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

CONSTRUCTION **DETAILS**

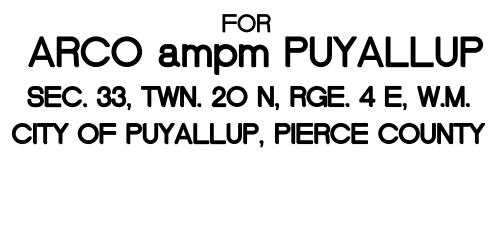
21730

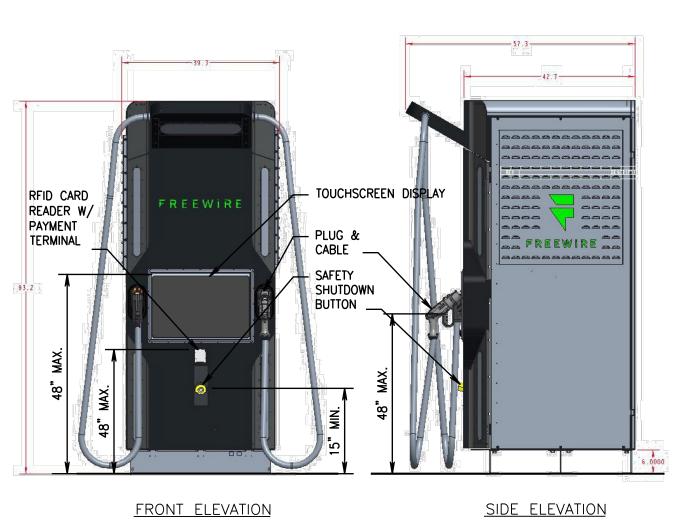
425.251.6222

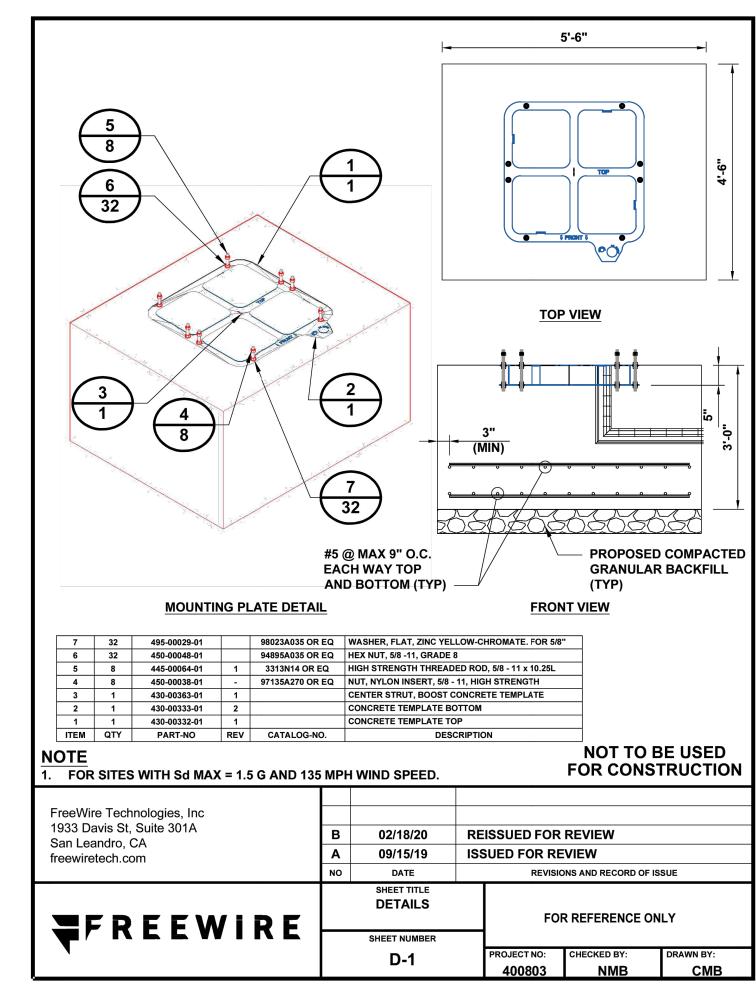
DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE

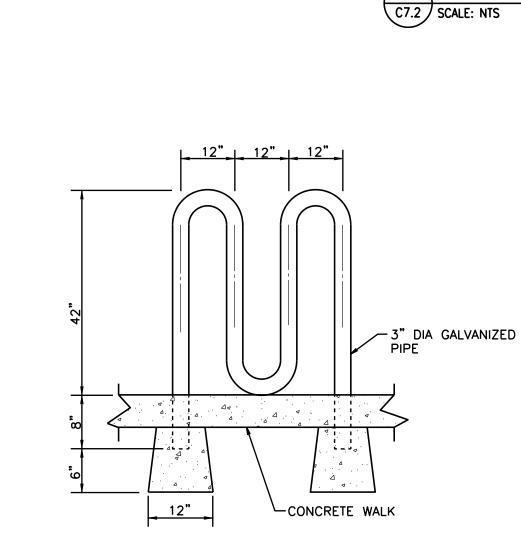
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED DUBLIC INFORMATION AND ARE SUBJECT TO VARIATION IF CONFLICTS SHOULD OCCUR. THE CONTRACTOR PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO



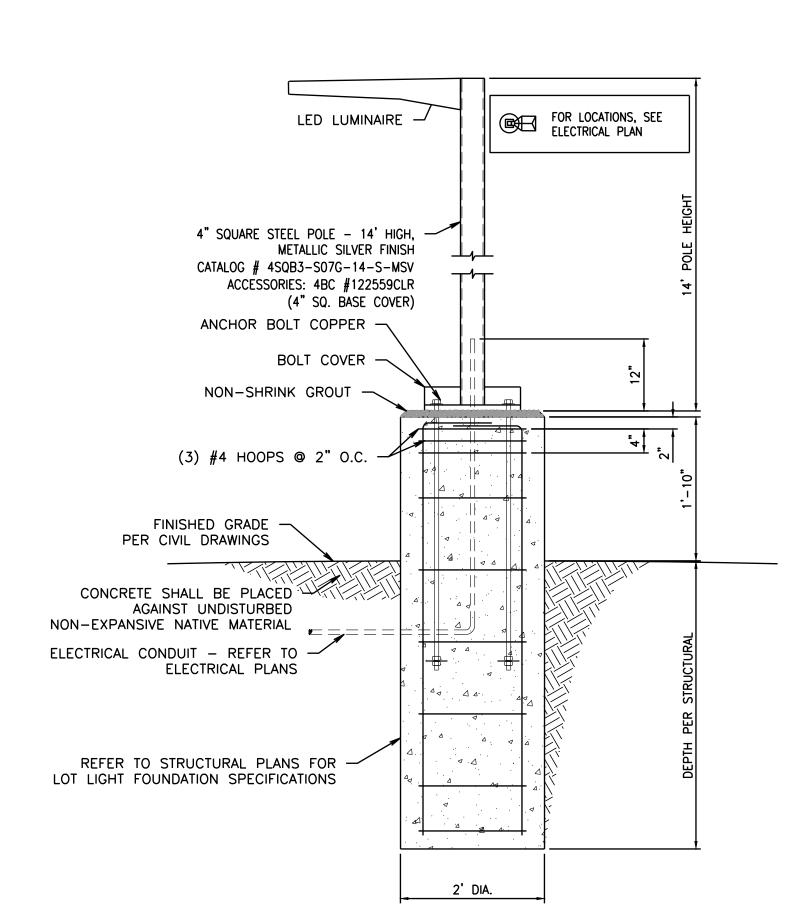




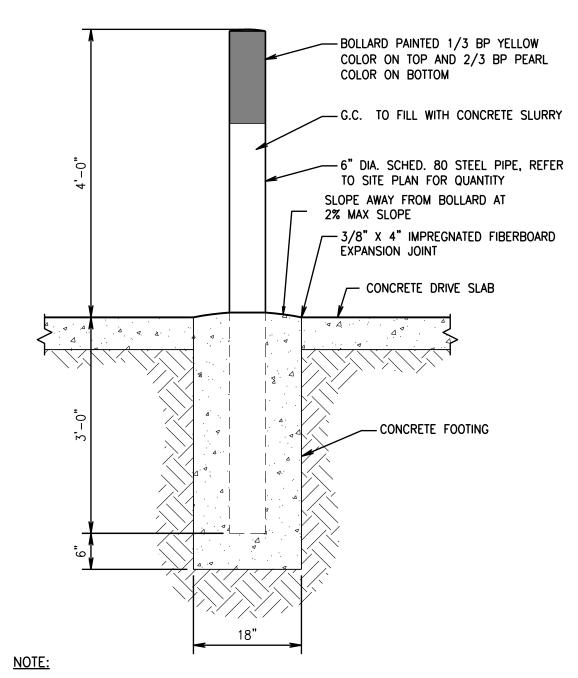
2 FREEWIRE EV CHARGING STATION



4 BIKE STORAGE C7.2 SCALE: NTS







1. REFER TO FUEL PLANS FOR HOOP BOLLARD PROTECTION DETAIL.



UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. Dial 811

FACILITY #TBD

APPROVED

MANAGER.

SITE ADDRESS:

DEVELOPMENT INFORMATION:

ARCO NTI

3400 am/pm FUEL CANOPY w/ 6 MPD's

> SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

ARCO

BP WEST COAST PRODUCTS, LLC

Consulting Engineers, Inc.

18215 72nd Avenue South

NO. DATE REVISION DESCRIPTION

Kent, WA 98032

barghausen.com

425.251.6222

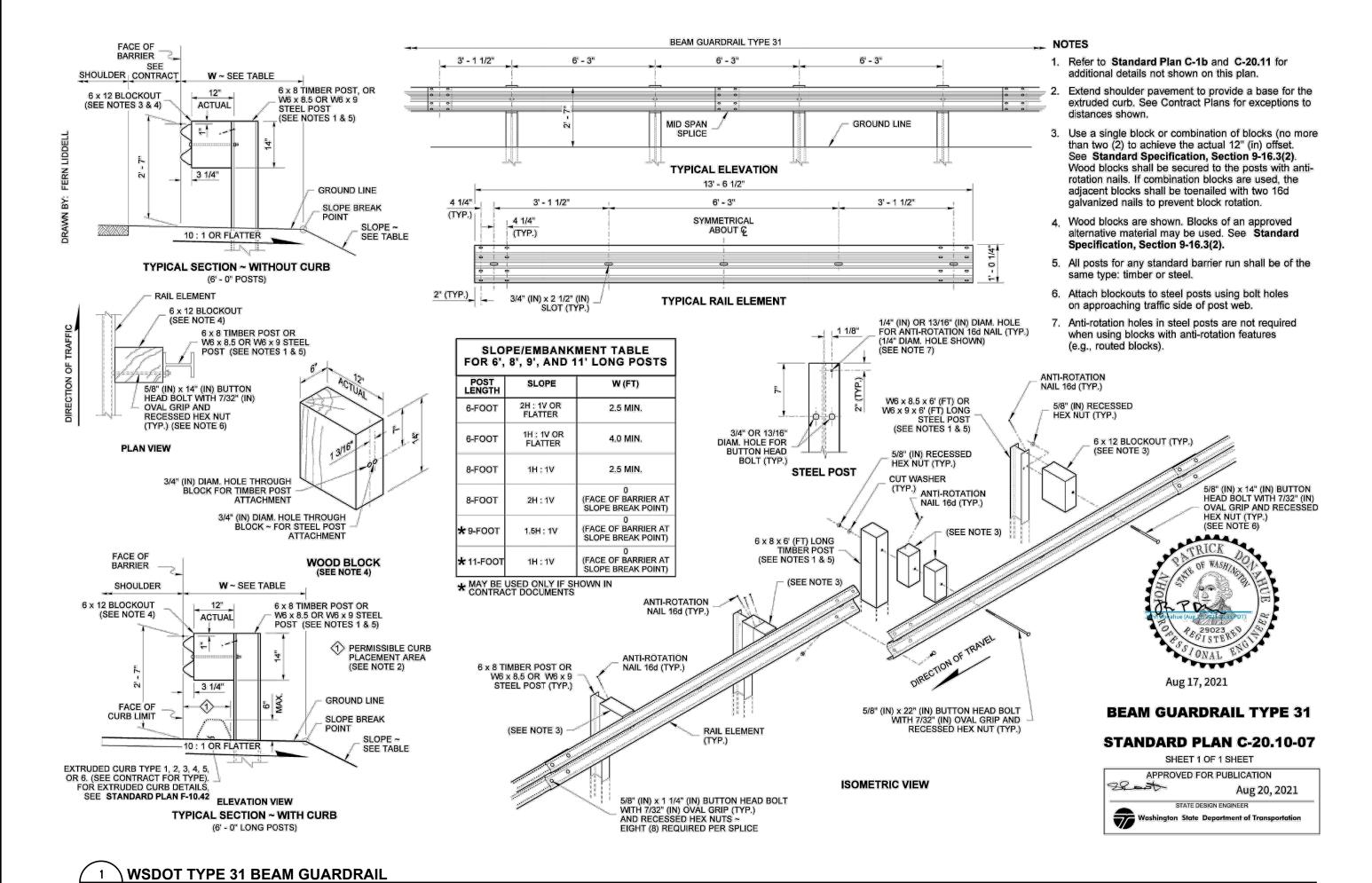
CITY OF PUYALLUP DEVELOPMENT ENGINEERING CONSTRUCTION **DETAILS** NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

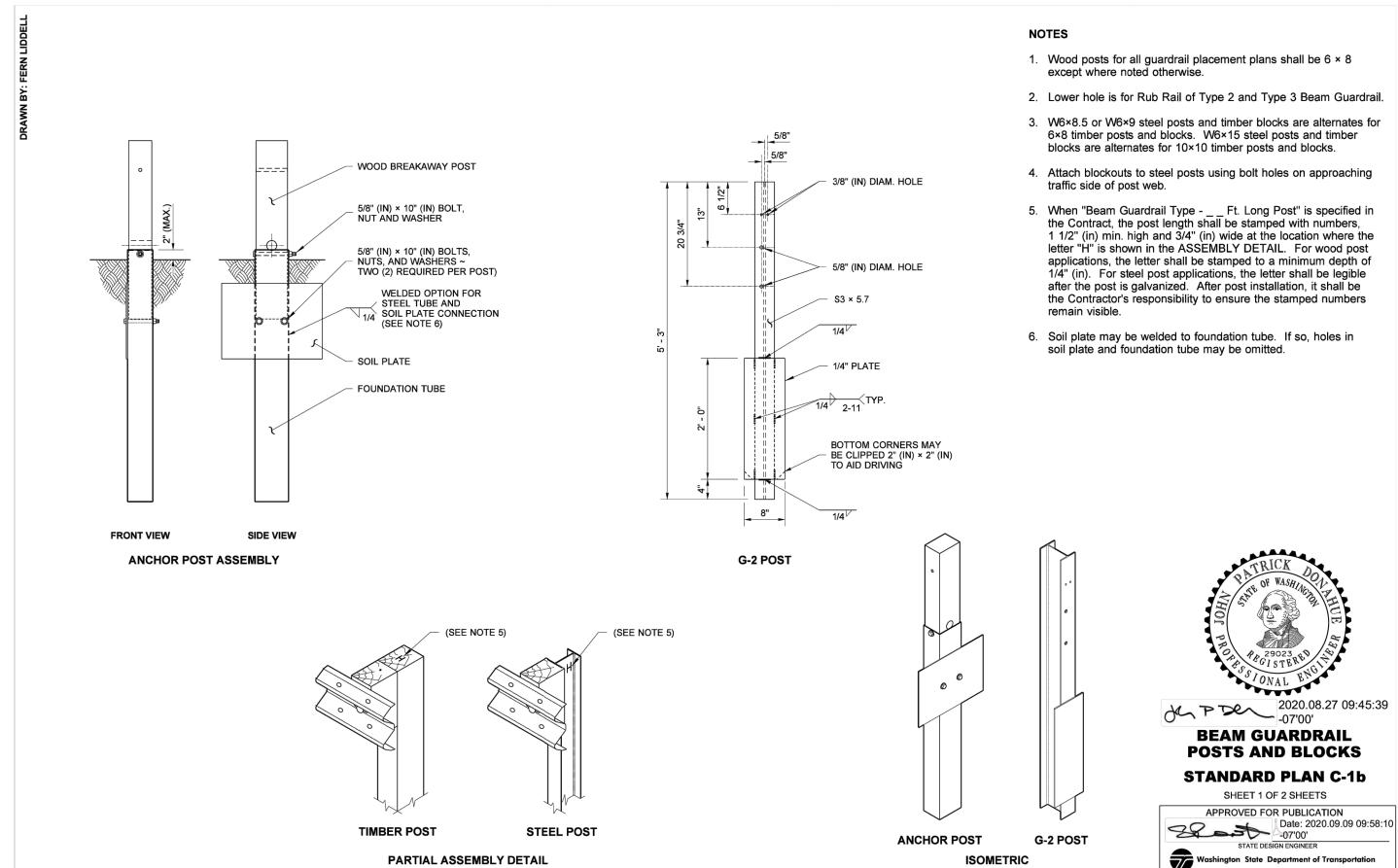
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

21730

LLIANCE PM:

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY





2 WSDOT BEAM GUARDRAIL POST AND BLOCKS
C7.3 SCALE: NTS

UTILITY CONFLICT NOTE:

C7.3 SCALE: NTS

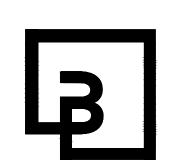
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



Know what's **below**. Call before you dig. Dial 811



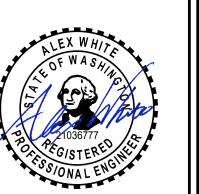
BP WEST COAST PRODUCTS, LLC



Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		
<u></u>		
6		
<u> </u>		
8		
9		
10		
<u> </u>		
12		
SEAL:		



10/4/2

DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS:

SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

DESIGNED BY:	MM	ALLIANCE ZOUM:
CHECKED BY:	AW	BP REPM:
RAWN BY:	ММ	ALLIANCE PM:
ERSION:	_	PROJECT NO:
	-	21730
RAWING TIT	LE:	

APPROVED

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

BY _____CITY OF PUYALLUP

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

CONSTRUCTION **DETAILS**

- ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE (TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED. (TA = TOP OF PAVEMENT, TC = TOP OF CONCRETE SIDEWALK/CURB, ME = MATCH EXISTING ELEVATIONS, FC = FLUSH CURB, FL = FLOW LINE, GB = GRADE BREAK)
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PROPOSED GRADES IN RELATIONSHIP TO SURVEYED BASIS OF ELEVATION.
- 3. FILL MATERIAL AND COMPACTION SHALL CONFORM TO THE GEOTECHNICAL REPORT AND CITY OF PUYALLUP REQUIREMENTS.
- 4. CONTRACTOR TO PROTECT AND MAINTAIN EROSION CONTROL FACILITIES DURING GRADING OPERATIONS.
- CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND CITY OF PUYALLUP REQUIREMENTS.
- CONTRACTOR TO RAISE AND ADJUST PROPOSED SANITARY SEWER CLEANOUT LIDS TO FINAL GRADE AS NECESSARY. CLEANOUTS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS.
- CONTRACTOR TO RAISE AND ADJUST ALL EXISTING AND PROPOSED CATCH BASIN RIMS TO FINAL GRADE AS NECESSARY. CATCH BASINS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA STANDARDS.
- CONTRACTOR TO ORDER LOCATES AND FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION TO ENSURE THAT UTILITY CONFLICTS DO NOT EXIST. CONTRACTOR TO REVIEW UTILITY ASBUILTS IN ORDER TO VERIFY EXISTING UTILITY LOCATIONS. CONTRACTOR SHALL POTHOLE ALL POTENTIAL UTILITY CONFLICTS PRIOR TO CONSTRUCTION. NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

® CONSTRUCTION NOTES:

- PROPOSED COMMERCIAL APPROACH PER THE CITY OF PUYALLUP STANDARD DETAIL 1.02.16. SEE DETAIL 3/C8.3. REFER TO DETAIL 1/C8.1 FOR THE PROPOSED ELEVATIONS AND SLOPES. ASPHALT WITHIN ROW SHALL CONFORM TO THE CITY OF PUYALLUP STANDARD DETAIL 1.01.01. SEE DETAIL 5/C8.3. ASPHALT WITHIN PRIVATE PROPERTY SHALL CONFORM WITH DETAIL 1/C7.0.
- PROPOSED CURB AND GUTTER PER THE CITY OF PUYALLUP STANDARD DETAIL 1.02.09. SEE DETAIL 2/C8.3.
- 3. PROPOSED REVERSED SLOPE SIDE WALK PER THE CITY OF PUYALLUP STANDARD DETAIL 1.02.01. SEE DETAIL 1/C8.3.
- 4. PROPOSED COMMERCIAL APPROACH RAMP PER THE CITY OF PUYALLUP STANDARD DETAIL 1.02.19. SEE DETAIL 4/C8.3.
- 5. PROPOSED SAWCUT (TYP.), CONTRACTOR SAWCUT AT THE EDGE OF THE EXISTING GUTTER.
- 6. PROTECT EXISTING STREET LIGHT TO REMAIN.
- 7. PROTECT EXISTING J-BOX TO REMAIN. ADJUST TO FINAL GRADE AS NEEDED.
- 8. PROTECT EXISTING FIRE HYDRANT TO REMAIN.
- RELOCATED EXISTING TELEPHONE CABINET TO THE PROPOSED PLANTER. CONTRACTOR TO COORDINATE RELOCATION OF CABINET WITH THE PURVEYOR.
- 10. PROTECT EXISTING UNDERGROUND POWER. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING THE
- 11. PROTECT EXISTING UNDERGROUND TELEPHONE. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING THE CONDUIT.
- 12. PROTECT EXISTING GAS. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING THE CONDUIT.
- 13. PROTECT EXISTING WATER MAIN. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING MAIN.
- 14. PROTECT EXISTING SEWER MAIN. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING MAIN.
- 15. PROTECT EXISTING STORM MAIN. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING MAIN.
- 16. PROPOSED MOUNTABLE CURB ISLAND. REFER TO DETAIL 1/C8.1 FOR THE PROPOSED ELEVATIONS AND SLOPES.
- 17. EXISTING SIGN TO REMAIN.
- 18. PROPOSED BUS STOP BENCH PER PIERCE COUNTY TRANSIT STANDARDS. SEE DETAIL 6/C8.3.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALI EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

S MERIDIAN ST. - PLAN OVER PROFILE

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY

CONTRACTOR TO ENSURE

SIDEWALK IS REVERSED SLOPED.

−\$0°33'46"W 161.50^{°2}

- STREET IMPROVEMENTS

EASEMENT AFN 8706100397

14+00

__N89*57'35"W 0.85'

20' INGRESS/EGRESS EASEMENT

AFN 2741876

OFF: 33.00'LT

— EXISTING SLOPE

- PROPOSED SLOPE ALONG FLOWLINE.

STA:13+17.61

END COMMERCIAL APPROACH

ELEV:55.27-

PROPOSED GRADE —

EXISTING GRADE -

ALONG FLOWLINE

ALONG FLOWLINE

ALONG CENTERLINE.

DRIVEWAY APPROACH. SEE DETAIL 1/C8.1. -

FOR THE PROPOSED ELEVATIONS AND

S. MERIDIAN ST., NO'33'46"E 1059.04' 13+00

EXCEPTION NO. 26

UTILITY PROTECTION NOTE:

APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THESE PLANS. CONTRACTOR TO COORDINATE WITH PURVEYOR AND USE EXTREME CAUTION WHEN EXCAVATING ON-SITE, UNTIL EXISTING GAS AND POWER SERVICE LOCATIONS ARE CONFIRMED. CONTRACTOR TO ORDER INDEPENDENT UTILITY LOCATES (INCLUDING GAS AND POWER) FOR THE FULL SCOPE OF WORK PRIOR TO CONSTRUCTION OR ANY GROUND DISTURBING ACTIVITIES.

MUTILITY POTHOLING NOTE:

S0°27'04"E 113.02'

15+00

— FOFF: 33.00'LT

STA: 14+46.24

OFF: 33.00'LT

=\$4'21'06"E 9.89'

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

S. MERIDIAN ST BUS STOP AND RAMP

CONNECTION. SEE DETAIL 2/C8.1. FOR

STA:15+49.40

ELEV:48.68=

15+40

START TAPER

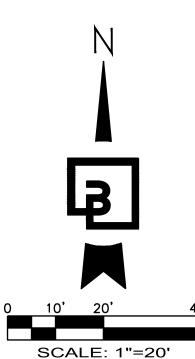
STA:15+58.18

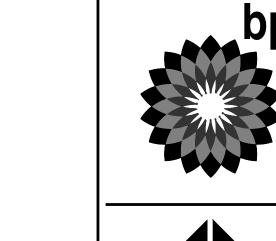
END OF FRONTAGE IMPROVEMENTS

ELEV:48.63

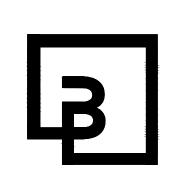
END TAPER

THE PROPOSED ELEVATIONS AND SLOPES.









Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent. WA 98032 425.251.6222 barghausen.com





DEVELOPMENT INFORMATION: **ARCO NTI** 3400 am/pm

| FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: **SWC S MERIDIAN** @ HIGHWAY 512

FACILITY #TBD DESIGNED BY: MM

PUYALLUP, WASHINGTON

CHECKED BY: AW	BP REPM:		
DRAWN BY: MM	ALLIANCE PM:		
VERSION:	PROJECT NO:		
	21730		
DRAWING TITLE:			
S MERIDIAN ST PLAN OVER			

DEVELOPMENT ENGINEERING **PROFILE** NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL SHEET NO:

APPROVED

CITY OF PUYALLUP

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

S. MERIDIAN ST. PROFILE

12+40

12+20

INGRESS/EGRESS AND UTILITIES EASEMENT

GUNDERSON LAW FIRM

1410 S MERIDIAN, PUYALLUP,

TAX PARCEL NO. 7730000300

(LAND USE - GENERAL

COMMERCIAL)

AFN 2792268

EXCEPTION NO. 25

10' ELECTRIC EASEMENT -

COMMON ACCESS TRACT "A"

EXCEPTION NO. 24

(TITLE PARCEL A1) SP NO. 77-315

STA: 12+16.58

OFF: 32.90'LT

FOUND 2" SURFACE BRASS DISK

AVE SW & S MERIDIAN

(MARCH 2022)

START FRONTAGE IMPROVEMENTS

W/PUNCH, IN 12" ROUND CUTOUT IN ASPHALT, INTERSECTION OF 15TH

> STA:12+16.58 ELEV:61.64

START TAPER

STA:12+17.63

ELEV:61.57-END TAPER

- STA: \12+17.63

OFF: 33.00'LT

STA: 12+22.58

OFF: 33.00'L

(TITLE PARCEL A2) AFN 2792268

EXCEPTION NO. 25

TAX PARCEL NO. 773000

STA:12+22.58

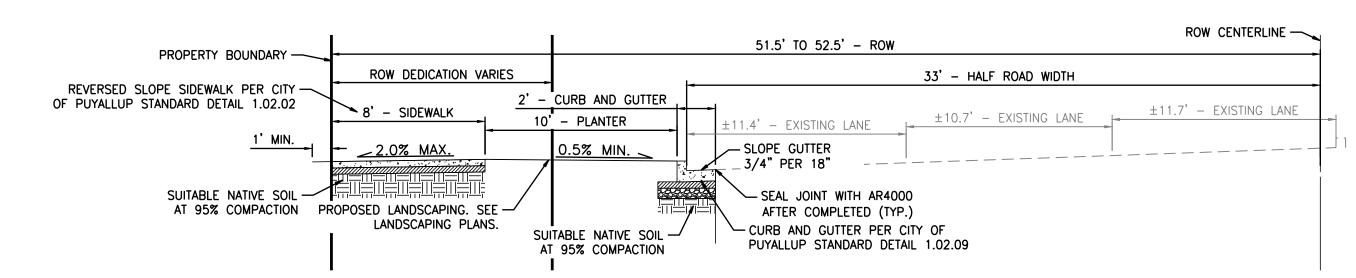
-START COMMERCIAL APPROACH

`_ELEV:61.19

NO KNOWN ADDRESS

(LAND USE - GENERAL

HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=2'



14+20

14+40

PROPOSED ELEVATION

14+00

STA:14+46.24 ELEV:49.74

START BUS STOP

STA:14+54.25

END BUS STOP

─ELEV:49.59

14+60

14+80

15+00

15+20

Know what's **below**. Call before you dig. **Dial 811**

13+00

13+20

13+40

S. MERIDIAN ST. SECTION LOOKING NORTH

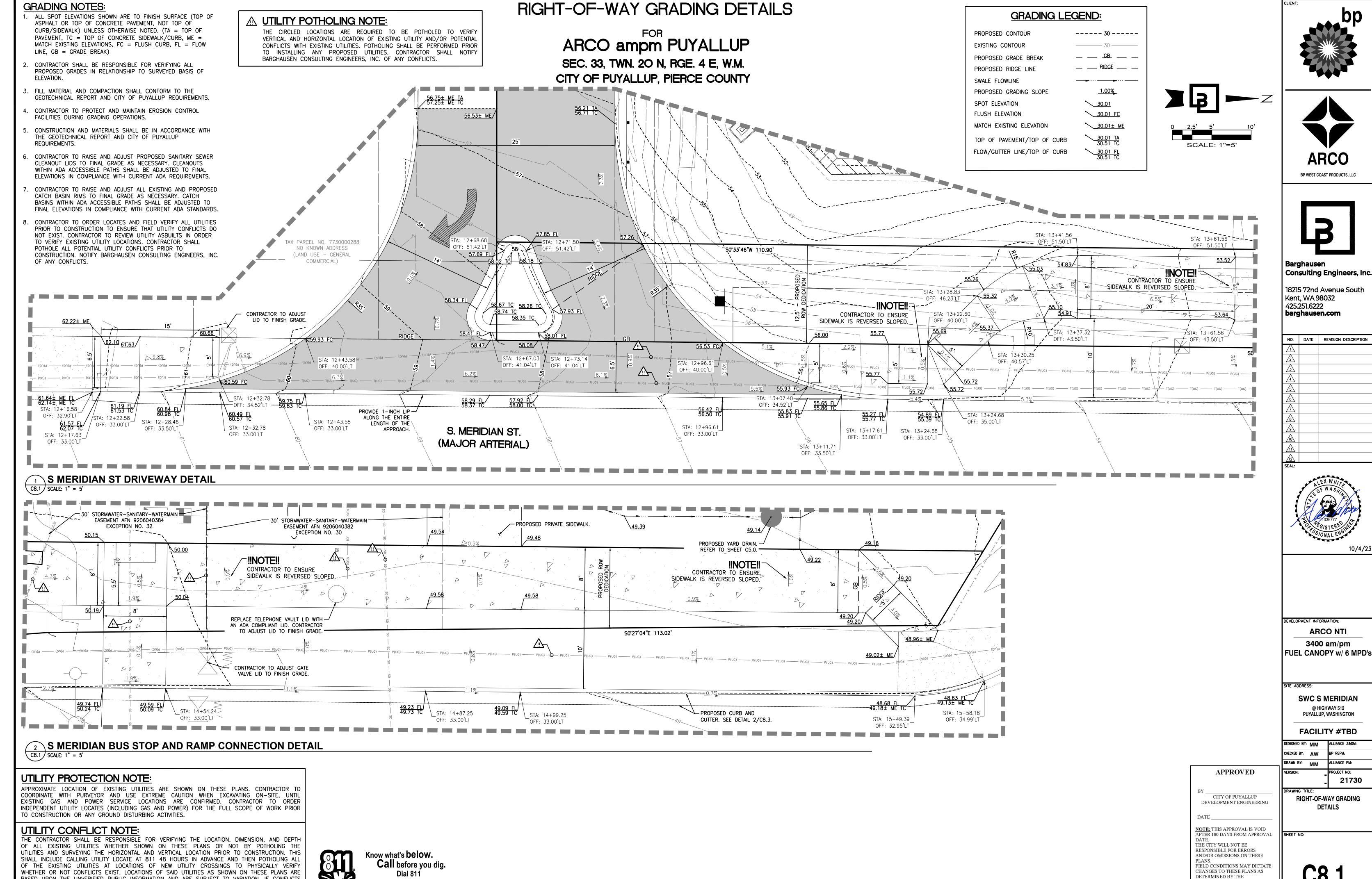
- EXISTING GRADE

EXISTING ELEVATION —

13+60

13+80

ALONG CENTERLINE.



BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS

SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO

RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



DEVELOPMENT ENGINEERING

MANAGER.

GRADING NOTES:

- 1. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED. (TA = TOP OF PAVEMENT, TC = TOP OF CONCRETE SIDEWALK/CURB, ME = MATCH EXISTING ELEVATIONS, FC = FLUSH CURB, FL = FLOW LINE, GB = GRADE BREAK)
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PROPOSED GRADES IN RELATIONSHIP TO SURVEYED BASIS OF ELEVATION.
- FILL MATERIAL AND COMPACTION SHALL CONFORM TO THE GEOTECHNICAL REPORT AND CITY OF PUYALLUP REQUIREMENTS.
- CONTRACTOR TO PROTECT AND MAINTAIN EROSION CONTROL FACILITIES DURING GRADING OPERATIONS.
- CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND CITY OF PUYALLUP REQUIREMENTS.
- CONTRACTOR TO RAISE AND ADJUST PROPOSED SANITARY SEWER CLEANOUT LIDS TO FINAL GRADE AS NECESSARY. CLEANOUTS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS
- CONTRACTOR TO RAISE AND ADJUST ALL EXISTING AND PROPOSED CATCH BASIN RIMS TO FINAL GRADE AS NECESSARY. CATCH BASINS WITHIN ADA ACCESSIBLE PATHS SHALL BE ADJUSTED TO FINAL ELEVATIONS IN COMPLIANCE WITH CURRENT ADA STANDARDS.
- CONTRACTOR TO ORDER LOCATES AND FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION TO ENSURE THAT UTILITY CONFLICTS DO NOT EXIST. CONTRACTOR TO REVIEW UTILITY ASBUILTS IN ORDER TO VERIFY EXISTING UTILITY LOCATIONS. CONTRACTOR SHALL POTHOLE ALL POTENTIAL UTILITY CONFLICTS PRIOR TO CONSTRUCTION. NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

(#) CONSTRUCTION NOTES:

- 1. PROPOSED URBAN COMMERCIAL APPROACH PER CITY OF PUYALLUP STANDARD 01.02.18. SEE DETAIL 1/C8.2.
- PROPOSED CURB AND GUTTER PER THE CITY OF PUYALLUP STANDARD DETAIL 1.02.09. SEE DETAIL 2/C8.3. CONTRACTOR TO MATCH EXISTING GUTTER WIDTH.
- 3. PROPOSED SIDEWALK PER THE CITY OF PUYALLUP STANDARD DETAIL 1.02.01. SEE DETAIL 1/C8.3.
- 4. PROPOSED ASPHALT PAVEMENT. SEE DETAIL SEE DETAIL 1/C7.0.
- 5. PROPOSED SAWCUT (TYP.). CONTRACTOR SAWCUT AT THE EDGE OF THE EXISTING GUTTER.
- 6. PROTECT EXISTING WATER GATE VALVE TO REMAIN.
- 7. PROTECT EXISTING FIRE HYDRANT TO REMAIN.
- 8. PROTECT EXISTING SITE SIGN TO REMAIN.
- 9. EXISTING ASPHALT TO REMAIN.
- 10. PROTECT EXISTING WATER MAIN. CONTRACTOR TO POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING MAIN.
- 11. SAWCUT SIDEWALK AT NEAREST COLD JOINT.

GRADING LEGEND:

<u> </u>
30
30
<u>GB</u>
RIDGE
····
1.00%
30.01
30.01 FC
30.01± ME
30.01 TA 30.51 TC
30.01 FL 30.51 TC

15TH AVE. SE - DRIVEWAY PLAN

ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M.



CEMENT AND CONCRETE BARRIER CURB AND GUTTER

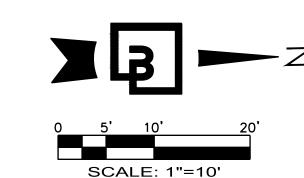
CEMENT AND CONCRETE BARRIER CURB AND GUTTER

DROP APPROACH

DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

C8.2 SCALE: NTS

\ CITY OF PUYALLUP COMERCIAL APPROACH



6" CONCRETE

SCALE: 1" = 2"

- 4" CRUSHED SURFACING

SCALE: 1" = 10'

SPLIT APPROACH SECTION (B)

SPLIT APPROACH

URBAN COMMERCIAL

APPROACH ALTERNATE 2

TOP OF ADJACENT SIDEWALK

2% MAX.

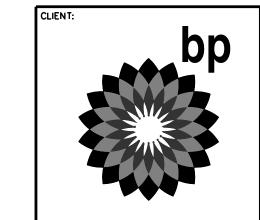
SECTION (A)

1. TO BE USED AS AN OPTION TO THE URBAN APPROACH WHEN GRADES ARE CREATING A SITE CONSTRAINT.
2. JOINTS IN PAVING SLAB SHALL NOT EXTEND INTO DRIVEWAY. ALL JOINTS SHALL BE CLEAN AND EDGED.
3. CONCRETE SHALL BE COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADIING 467 COARSE AGGREGATE, NO FLY ASH.

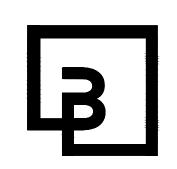
* 30 FEET MINIMUM WIDTH FOR TWO WAY TRAFFIC. MAXIMUM WIDTH DEPENDANT ON VEHICLE VOLUME AND DESIGN VEHICLE TYPE.

4. DROP APPROACH RAMPS SHALL NOT EXCEED 8.3%, AS MEASURED WITH A SMART LEVEL, UNLESS RAMP LENGTH IS EXTENDED TO 15.

- 4" CRUSHED







Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com





DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm

FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: SWC S MERIDIAN @ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD

DESIGNED BY:	ММ	ALLIANCE Z&DM:
CHECKED BY:	AW	BP REPM:
DRAWN BY:	ММ	ALLIANCE PM:
VERSION:	_	PROJECT NO:
	_	21730
	-	21700
DRAWING TIT	LE:	

15TH AVE. SE - DRIVEWAY PLAN

NOTE: THIS APPROVAL IS VOID
AFTER 180 DAYS FROM APPROVAL

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

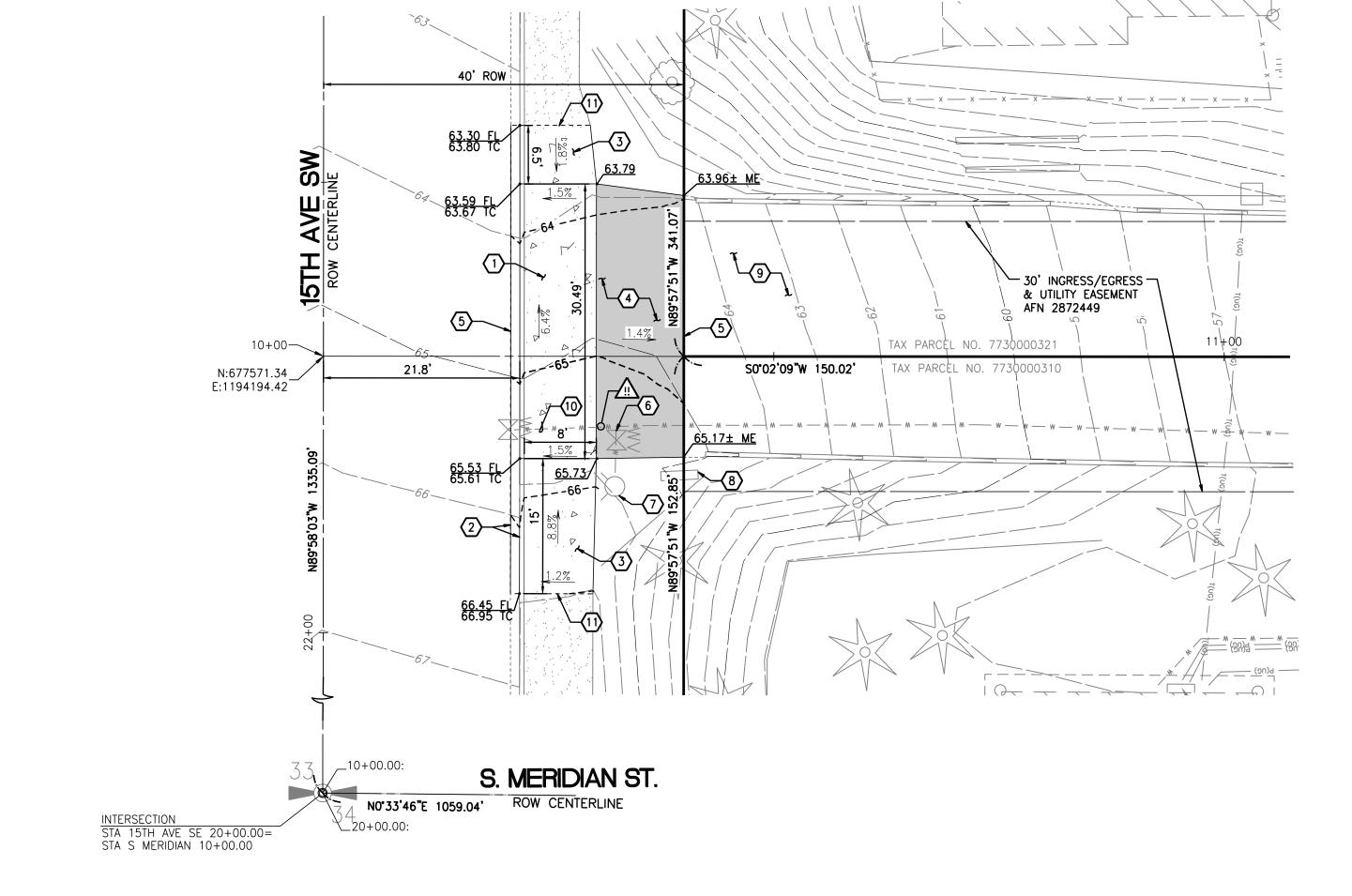
DETERMINED BY THE

MANAGER.

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS



MUTILITY POTHOLING NOTE:

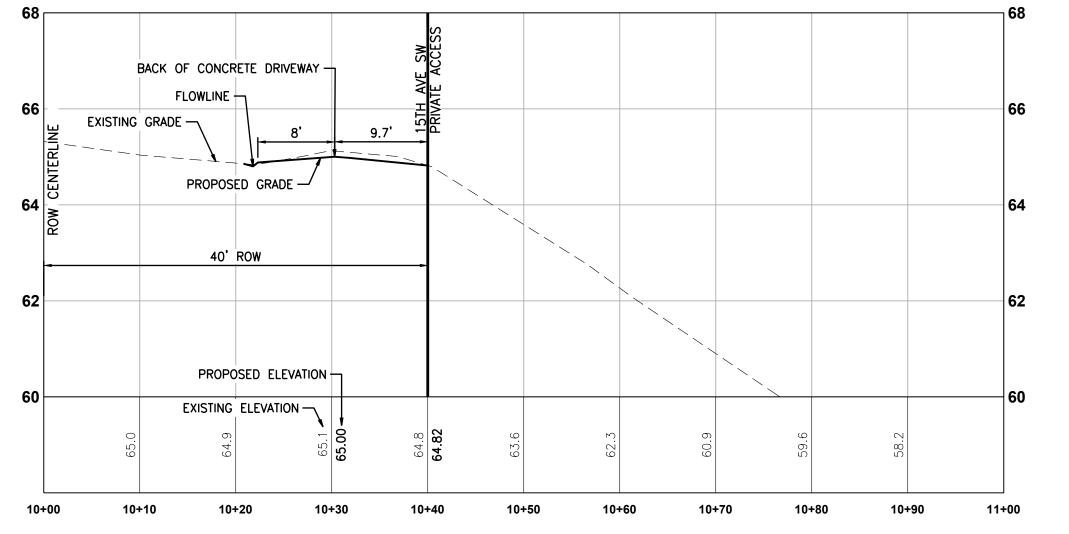
THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

UTILITY PROTECTION NOTE:

APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THESE PLANS. CONTRACTOR TO COORDINATE WITH PURVEYOR AND USE EXTREME CAUTION WHEN EXCAVATING ON-SITE, UNTIL EXISTING GAS AND POWER SERVICE LOCATIONS ARE CONFIRMED. CONTRACTOR TO ORDER INDEPENDENT UTILITY LOCATES (INCLUDING GAS AND POWER) FOR THE FULL SCOPE OF WORK PRIOR TO CONSTRUCTION OR ANY GROUND DISTURBING ACTIVITIES.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 811 48 HOURS IN ADVANCE AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



SOUTH DRIVEWAY PROFILE

HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=2'



CITY OF DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

MINIMUM SIDEWALK WIDTHS

8'(RS ZONES) COMMERCIAL USES, WHEN REQUIRED

* MATCH GREATEST WIDTH FOR ANY ADJACENT ZONE

AREAS (DETACHED DWELLINGS)

MULTI-FAMILY RESIDENTIAL AREAS

BY DEVELOPMENT SERVICES MANAGER

5'(RS ZONES) SINGLE FAMILY RESIDENTIAL

8'(RM ZONES) MEDIUM AND HIGH DENSITY

8'(CG, CBD ZONES) COMMERCIAL AREAS

8'(PF ZONES) PUBLIC FACILITIES AREAS

8'(ML ZONES) INDUSTRIAL AREAS

8'(F ZONES) FAIR AREAS

SIDEWALK WITHOUT PLANTING STRIP

TO THE MAXIMUM EXTENT FEASIBLE.

THE GRADE OF THE SIDEWALK.

8. SIDEWALK MINIMUM UNOBSTRUCTED CLEAR

WIDTH SHALL BE 4', EXCLUSIVE OF THE WIDTH

10. CURB RAMPS SHALL BE CONSTRUCTED AT

INTERSECTIONS USING A DESIGN PREPARED BY A

DESIGN FAILS TO MEET ALL APPLICABLE DESIGN

STANDARDS. THE ENGINEER SHALL DOCUMENT WHY

LICENSED PROFESSIONAL ENGINEER. WHEN A RAMP

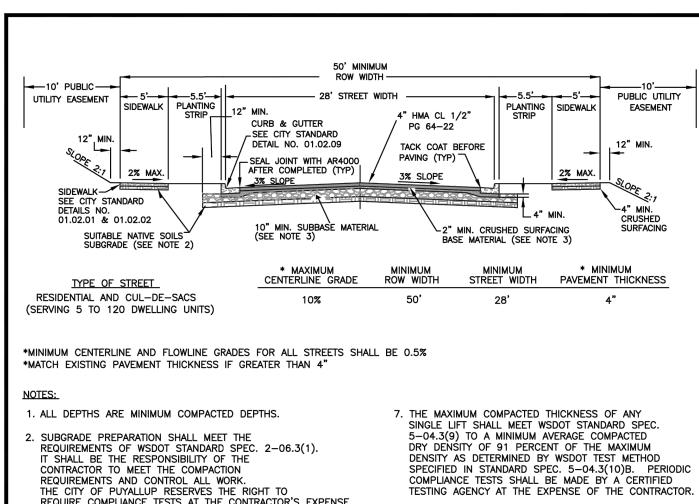
THE PROPOSED RAMP ACHIEVES DESIGN STANDARDS

9. GRATINGS, ACCESS COVERS, JUNCTION BOXES,

CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK (RIGHT-OF-WAY) MUST HAVE SLIP RESISTANT SURFACE AND MATCH

1 Em (m (o o m)						
DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY APPROVED BY REVISED BY LINDA LIAN COLLEEN HARRIS LINDA LIAN				CITY STANDARD	
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.01		DATE APPROVED 07/01/2009	DATE REVISED 03/21/11	SCALE 1:8	01.02.01	

1 \ CITY OF PUYALLUP CONCRETE SIDEWALK (MODIFIED) C8.3 | SCALE: NTS



REQUIREMENTS AND CONTROL ALL WORK.
THE CITY OF PUYALLUP RESERVES THE RIGHT TO
REQUIRE COMPLIANCE TESTS AT THE CONTRACTOR'S EXPENSE. 3. SUBBASE MATERIAL SHALL BE GRAVEL BORROW MEETING THE REQUIREMENTS OF WSDOT STANDARD SPEC.

9-03.14(1) OR CRUSHED BALLAST MEETING THE REQUIREMENTS OF WSDOT STANDARD SPEC. 9-03.9(1). CRUSHED SURFACING SHALL MEET THE GRADATION REQUIREMENTS OF WSDOT STANDARD SPEC. 9-03.9(3). THE SUBBASE AND BASE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPEC. 4-04.

4. SOIL STABILIZATION FABRIC MAY BE REQUIRED BY THE DEVELOPMENT REVIEW ENGINEER TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE MATERIAL. WHEN REQUIRED, THE CONTRACTOR SHALL PLACE A GEOTEXTILE FABRIC OVER THE PREPARED SUBGRADE WITH A TWO FOOT MINIMUM OVERLAP. THE FABRIC SHALL BE INSTALLED PER MANUFACTURER

5. ASPHALT CONCRETE PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD . 5-04. DESIGN ENGINEER SHALL SUBMIT A STATE APPROVED HMA MIX FOR APPROVAL.

TEMPERATURE SHALL NOT EXCEED 325°F AT DISCHARGE OF THE PLANT NOR BE LESS THAN 185°F

C8.3 | SCALE: NTS

LEAVING THE SPREADER BOX.

28' PUBLIC ROADWAY CITY OF

CROSS SECTION 01.01.01

8. THE FACE OF THE GUTTER LIP AND EDGES OF

WHEN SUCCESSIVE LIFTS OF ASPHALT ARE

UNIFORMLY OVER THE PREVIOUS LIFT AT A

AT A TEMPERATURE OF 100° F AND SHALL BE ALLOWED TO SET TO A TACKY STATE PRIOR

SHALL BE UNIFORM AND VERTICAL. THE MEET

LINES SHALL BE CLEANED AND TACK COATED.

10. ANY CHANGES TO THE STANDARD PAVEMENT SECTION

DESIGN WITH CALCULATIONS SHALL BE REQUIRED.

MONUMENT COVERS SHALL BE INSTALLED AFTER PLACEMENT OF ASPHALT. IF MORE THAN ONE LIFT

12. A UTILITY EASEMENT OF 10' SHALL BE PROVIDED ON

13. PLANTING STRIP SHALL BE PLANTED AS DIRECTED BY CITY

IS NECESSARY, FRAMES AND LIDS WILL BE ADJUSTED TO FINISH GRADE AT FIRST LIFT AS DIRECTED BY

SHALL REQUIRE APPROVAL BY THE DEVELOPMENT REVIEW ENGINEER. A STRUCTURAL PAVEMENT CROSS SECTION

TO THE PLACEMENT OF THE NEXT LIFT.

9. ALL MEET LINES BETWEEN LIFTS OF ASPHALT

11. ALL MANHOLE FRAMES, VALVE FRAMES AND

EXISTING ASPHALT MEET LINES SHALL BE TACK COATED PRIOR TO PAVEMENT PLACEMENT.

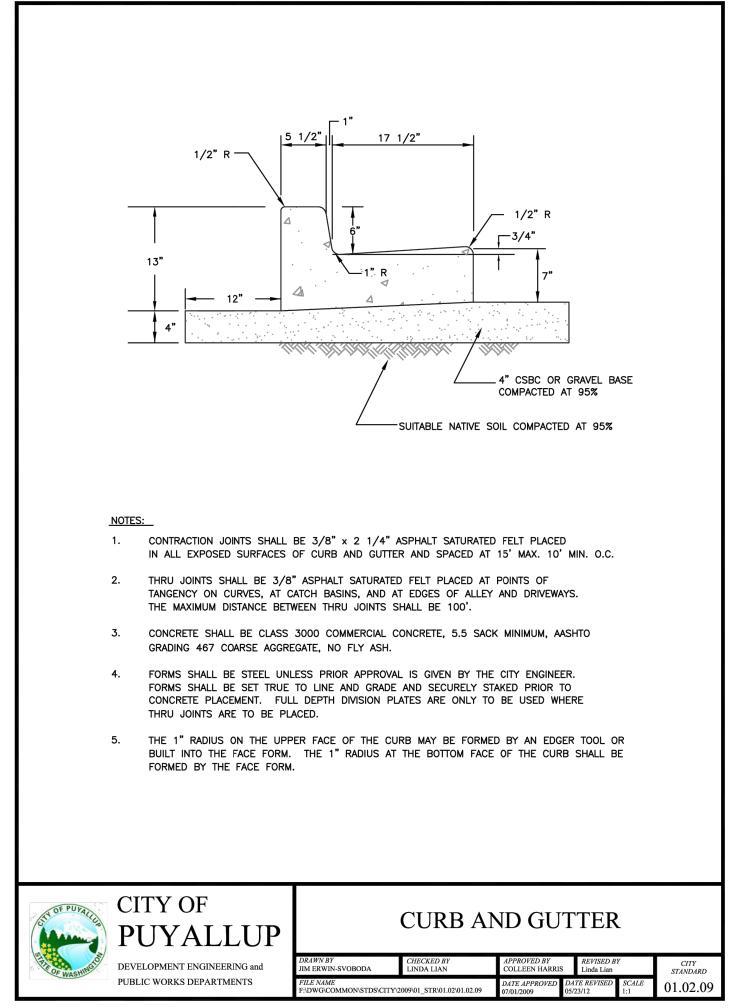
REQUIRED. A TACK COAT SHALL BE DISTRIBUTED

RATE OF 0.06-0.08 GALLONS PER SQUARE YARD

DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS ∫ CITY OF PUYALLUP ASPHALT PAVEMENT

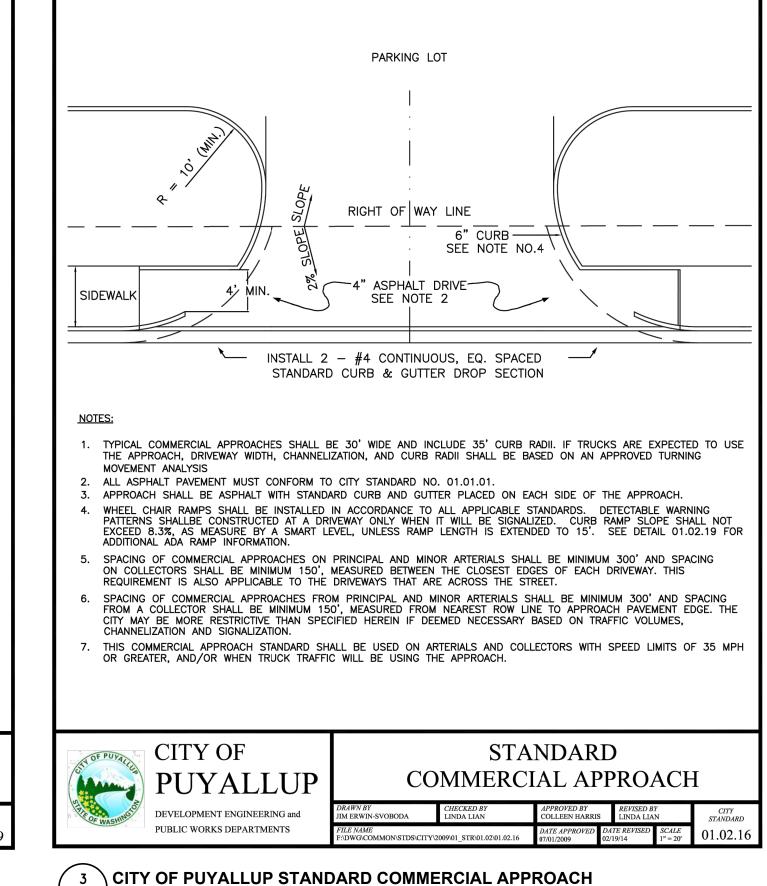
RIGHT-OF-WAY DETAILS

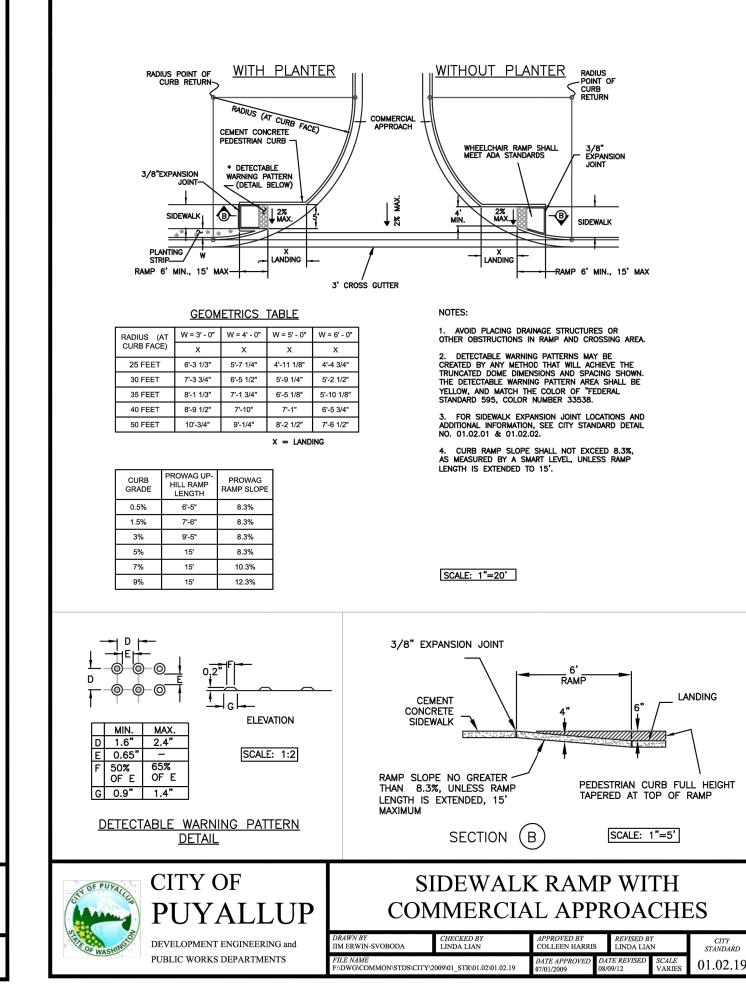
ARCO ampm PUYALLUP SEC. 33, TWN. 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY



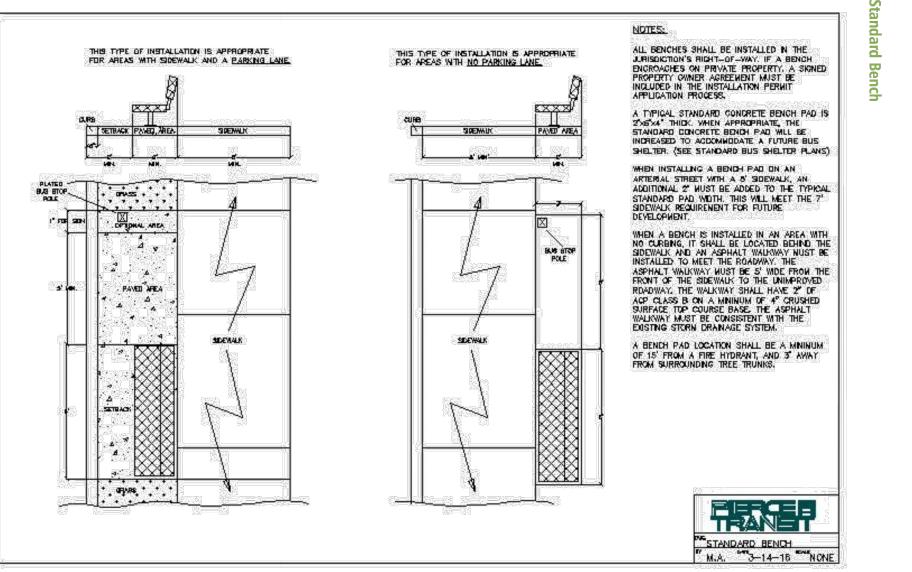
CITY OF PUYALLUP CURB AND GUTTER

C8.3 / SCALE: NTS









6 \ PIERCE COUNTY TRANSIT BENCH C8.3 SCALE: NTS

APPROVED

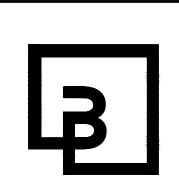
CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE

RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

MANAGER.





BP WEST COAST PRODUCTS, LLC

Barghausen Consulting Engineers, Inc.

18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com





10/4/2

DEVELOPMENT INFORMATION: **ARCO NTI**

3400 am/pm FUEL CANOPY w/ 6 MPD's

SITE ADDRESS: SWC S MERIDIAN

@ HIGHWAY 512 PUYALLUP, WASHINGTON

FACILITY #TBD CHECKED BY: AW P REPM: LIANCE PM:

21730 **RIGHT-OF-WAY DETAILS**