roject Detail	Input Form		
Date	e Requested: 12/18/2020	Field Order#:	Pending
Water Sy	ystem Name: Southwood	Start Date:	12/18/2020
DO	H System ID: 82844H	Est. Complete Date: (09/08/2021
Requested by:	Zera Cox	App. Manager Signature:	met -
BUDGET:	500-500-SPECIFIC (Funded/Capital)	500-NON-SP Non Specific (
TYPE PROJECT:	☐ Water Regulated ☐ Water Equipment ☐ Contributing Aid Project	Waste Water Non-Regulate	ed (Sewer)
District – Check l	ocation work is located	Construction – Check all th	nat apply
500 – Comp		▼ Asphalt/Paving	
	ffice (Gig Harbor)	✗ Flaggers	
	ffice (Olympia) ierce (Puyallup)	X Permits Required	
504 – Sequir	m Area	Contract Laborer Used Contractor Used (Name)	
505 – Mirro	rmont Area	Equipment Rental for Proj	ect Used
503 – Orcas 553 – Orcas	Island Island – (Sewer Nonregulated)		
Project Detail:			
Church. The pa		truction plan an hire their own und er will be responsible for the tie in	erground contractor to
Asset Location	– Site name, Well Source, Address, etc.		
Christ Commun	ity Baptist Church, 8016 176th Street E		
CIAC Billable Cu	ustomer Information		
Is Project Billable	e to a customer? 🗶 Yes 🗌 No		
Customer Nar	me: Dan Mulkey, Building Committee Chair	man, Christ Community Baptist Ch	nurch
Addr	ress 8016 176th St E		
City, State	ZIP Puyallup, WA 98375		

Project Justification:	Project Justification: (If project is \$100,000 or more please attach Detailed Project Justification)								
Relocatio	ndate		y Water Quality V Prevent Loss of Press						
Asset Retirement: (I	Asset Retirement: (List all information available, serial numbers, size, make, model, year, etc.)								
Cost Estimate – If a	pplicable. Please attach	anv cost estim	ate that have been done	e for project.					
2, 3, 3,	P P 			, , ,					
			Estimate						
		Material:	0						
		Labor:	7,800.00						
		Contractor:	600.00						
		TAX: -		•					
	CIAC	Projects Only _	20185.28	•					
		Total:	30,980	-					
Project Coding (Acco	unting to Complete)								
Project Name (If Wat	ter System Use ABBRV First):	SWS.20 Main	Ext_8016 176th StE (Chris	tCommunityChurch)					
Coding:			_	<u> </u>					
DEPT:	ACCT:	PROJ#:	AC ⁻	TV ID:					





WASHINGTON WATER SERVICE

14519 Peacock Hill Avenue • P.O. Box 336 Gig Harbor, WA 98335 *Tel*: (877) 408-4060

November 9, 2020

Dan Mulkey Building Committee Chairman Christ Community Baptist Church 8016 176th Street E Puyallup, WA 98375-2429

Re:

Southwood Water System, DOH ID# 82844H, Pierce County

Water Main Extension Agreement for 8016 176th St E

Parcel No. 0419321080

Dear Mr. Mulkey:

This Water Main Extension Agreement (the "Agreement") is between Washington Water Service Company (the "Washington Water") and Christ Community Baptist Church (the "Owner") to extend the existing water main line and installation of any other facilities needed to provide water utility service to the parcel(s) referenced above.

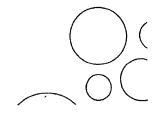
This Agreement sets forth the terms and conditions as well as our engineer's projected costs, enclosed as "Attachment A", to complete the tap of the extended watermain on 176th Street East. The projected cost of \$30,980 is exclusive to the time and materials necessary to provide fire flow service to your property. The final amount billed for completing this project is based on actual costs for engineering, materials, labor and other variables needed to complete the project, this amount may also vary from the projected costs provided due to unforeseen issues during the installation/tie-in of the extended water main and service line that are beyond the control of Washington Water.

Washington Water will allow the Owner to provide an engineered construction plan and hire his/her own underground contractor to install the watermain, and appurtenances for the intended propose of installing water service to the parcel listed above. This contractor must be approved by Washington Water, prior to beginning any underground work (a list of approved contractors can be provided upon request). The main extension is to be within the designated easement.

An engineered plan-set has been previously reviewed and approved by the Pierce County Fire Marshal's office. The current plan-set design is for the installation of an 8-inch watermain, this watermain can only support a fire-flow rate of 1,500 gpm. Any future increase of fire-flow will require the watermain to be upsized.

The improvements stated herein qualify as Contributed In Aid of Construction (CIAC). Pursuant to Section 118(b) of the Tax Cuts and Job Act of 2017, federal tax laws require CIAC funds to be federally taxed ensuring that the

Quality. Service. Value.



expansion of water service to new customers does not unfairly burden a utility's existing customers. Applicants should consult their tax advisors concerning the application of tax laws to their particular situations.

Terms & Conditions

The projected costs are for engineering, construction materials and labor only, unless otherwise specified in Attachment A. Upon execution of this Agreement and prior to commencement of engineering and construction, Washington Water requires a deposit payment of 50% of the projected costs outlined in this Agreement. All past due accounts will be charged 1.5% per month (18% per annum). The projected costs submitted in this Agreement is provided as preliminary information only and the figures and information contained herein are subject to the execution of this Agreement within 30-business days of the date the Agreement was issued.

Terms and conditions of this Agreement are subject to the review and approval of the Washington State Utilities and Transportation Commission (the "Commission"). Upon execution of this Agreement, Washington Water will submit the Agreement to the Commission for their approval. Upon the Commission's approval, plans will be prepared, and if required, submitted to the Washington State Department of Health for their approval. Once all necessary approvals have been obtained and the required payment received, Washington Water will schedule and cause construction to commence.

The Owner's land surveyor, or engineering firm will need to prepare a 20 foot wide easement description for the on-site water system mains and appurtenances using the Washington Water easement form after construction is complete. Once all signatures have been notarized on the easement document, it must be recorded with the Pierce County Auditor's office. This is necessary for Washington Water to maintain the on-site facilities on an on-going basis.

Upon completion of the main extension and any other requested facilities have been installed, pressure tested, bacteriological samples taken and tested with satisfactory results and a Certificate of Completion signed by a licensed engineer and all approvals received; the Owner is to provide Washington Water with a Bill of Sale transferring the ownership of these contributed facilities to Washington Water.

Washington Water requires that all construction be completed and remaining amounts be paid in full prior to the issuance a Certificate of Water Availability.

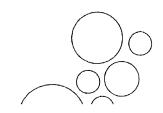
Neither this Agreement nor any of the rights, interests or obligations under this Agreement may be assigned or delegated, in whole or in part, by operation of law, or otherwise, by Owner without the prior written consent of Washington Water, and any such assignment without such prior written consent shall be invalid. Nothing expressed or referred to in this Agreement will be construed to give any person other than the parties to this Agreement any legal or equitable right, remedy, or claim under or with respect to this Agreement or any provision of this Agreement. This Agreement and all of its provisions and conditions are for the sole and exclusive benefit of the parties to this Agreement and their successors and assigns.

Upon execution of this Agreement, the Owner has 180-business days to coordinate with Washington Water for the engineering and construction to complete this project. This Agreement shall automatically become invalid unless the work authorized in this Agreement has commenced within 180-business days after execution. Once this Agreement has become invalid, the project will be closed and all project work will cease; a refund check will be issued to the Owner for pre-paid amounts received by Washington Water minus any billable work completed and non-refundable fees.

2 | Page

Quality. Service. Value.





(Initial

elect to hire my own qualified contractor to complete the installation under the conditions listed below:

- Remit a deposit of \$15,490 (50%) of the projected costs (\$30,980) for engineering, construction labor, materials, and county permits provided by Washington Water, as outlined in Attachment A.
- Prior to any underground work being started, the hired contractor must be pre-approved by Washington Water. A list of approved contractors can be provided upon request.
- Provide installing contractor's name and contact information, along with copies of their Contractor's
 License, and Certificate of Insurance (contractor must have a minimum insurance coverage of
 \$1,000,000 per occurrence, \$2,000,000 annual aggregate naming Washington Water Service
 Company as Additional Insured and Certificate Holder).
- Time required to complete this project may vary due to the size of the project, projects already scheduled and emergencies that may require our construction crew to leave project site.

BEFORE CONSTRUCTION BEGINS:

- The signed Agreement and the required payment must be received by Washington Water before any work will be scheduled, including the purchasing of materials.
- Washington Water Engineering to review and approve the final construction plan set as it pertains to water system assets.
- If required, Washington Water will be responsible for obtaining all necessary regulatory agency approvals, county/state permits and schedule with outside contractors.
- Provide names of any contractor(s) that may be working on-site.
- Schedule a pre-con meeting to review detailed plans and specifications with Washington Water's Engineer, and the Construction Superintendent or Construction Foreman.
- All contractor purchased materials must be on-site and inspected by Washington Water prior to installation.
- Washington Water will operate and lock-out existing gate valves to isolate the project site from the system.

DURING CONSTRUCTION:

- Washington Water will operate the valves for filling and flushing of the new water main and will do periodic inspections of the installation.
- Review status of project with Washington Water's Construction Superintendent.
- Coordinate inspections with Washington Water (either our Construction or Engineering Department)

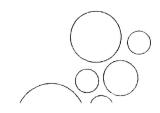
BEFORE TIE-IN/ACTIVATION OF NEW FACILITIES:

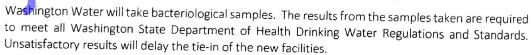
- Once construction is completed, Washington Water will witness the pressure test for the installed facilities, to be carried out by the Owner.
- A final inspection must be scheduled with the Construction Superintendent or Construction Foreman
 to review installed facilities and that the installed facilities have been installed in accordance with the
 specifications provided in the engineering plans.
- As-built drawings in accordance with Washington Water standards are required to be submitted and approved by the Engineering Department.
- If a fire hydrant is installed, Washington Water will be responsible for fire flow testing and county submittal.

3 | Page

Quality. Service. Value. wawater.com







- A backflow assembly (Double Check Valve-DCVA/Reduced Pressure Backflow-RPBA/Pressure Vacuum Breaker-PVB) is required whenever there is a possibility of a cross connection between the public water system and a non-potable water source. Examples include, but are not limited to, irrigation systems, fire sprinkler systems or other water-using equipment. The backflow assembly device must be installed on the customer side of the meter; a licensed plumber can install this device. Annual testing and repair of the device is the responsibility of the parcel owner.
- Final payment for the work completed as outlined in this Agreement must been received, and any remaining amounts due be paid in full prior to issuance of Certificate of Completion and Water Availability.

If the terms of this letter are acceptable, please initial your election to hire your own contractor to complete the extension project under the terms listed in the Agreement and then sign the letter below. Return both this letter and the agreed payment to our Gig Harbor Office at 14519 Peacock Hill Avenue NW, Gig Harbor, WA 98335 (Mailing Address: PO Box 336, Gig Harbor, WA 98332). If you have any questions, please give me a call directly in Gig Harbor at (253) 851-4060 or toll free at (877) 408-4060.

Sincerely,

Matthew D. Brown, P.E. General Manager

Accepted

By: Dan Mulby Bldg Chain
DAN MULKEY

DAN MULKE

253-691-6654

12-14-20 Date Accepted

Enclosure(s)

cc: Kanosi Chakweva, Accounting Manager Eric Williams, Construction Superintendent Sarah Castro, Customer Service Manager John Puccinelli, Engineering Manager Shawn O'Dell, Operations Manager (Gig Harbor/Olympia) Bob Blackman, Local Manager (East Pierce)

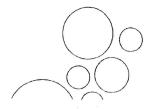
File1: Water System File2: EngFile# 3905

 $W: \Systems \\ Southwood\ ID82844H\ Pierce \\ Projects_Work\ Orders \\ SWS.20\ MainExt_Address\ (ChristCommunityChurch)\\ \\ \Contract \\ \SWS.20\ MainExt_Address\ (ChristCommunityChurch)\\ \\ \SWS.20\ MainExt_Address\ (ChristCommunit$ MainExt_8016 176th StE (ChristCommunityChurch).docx

4 | Page

Quality. Service. Value.





Washington Water Service Co. Engineering Department

Engineering Department 6800 Meridian Road SE Olympia, WA 98513

Engineer's Opinion of Probable Project Costs Summary Attachment "A"

Southwood Water System Christ Community Baptist Church Water Main Extension

November 4, 2020 (Projected Cost Good for 30-Days)

Engineering File # 9805

***	Construction	Materials	***

***************************************	TOTAL CONTROL OF THE					
Unit of Property		Quantity	Unit of Measure	Unit Cost		Total
103240	Construction Materials, Pipe, Valves, Fittings, Etc.		LS	\$ -	\$	-
	Construction Materials for Services	•	LS	\$ -	\$	-
103480	Construction Materials for Hydrants		LS	\$ -	\$	
					\$	-
					\$	-
		Sub-Total			\$	-
		Contingency		10%	\$	-
		Sales Tax		9.00%	\$	
		SUB Total - N	Materials		S	-
		Rounded Un	Value		•	50.00

*** Construction Labor ***

Unit of Property	Description	Quantity	Unit of Measure		Unit Cost		Total
103240	Construction Labor - Watermain	1	LS	\$	4,752.00	\$	4,752.00
103450	Construction Labor - Services	1	LS	\$	-	\$	-
103480	Construction Labor - Hydrants	1	LS	\$	-	\$	-
						\$	-
	WWSC Engineering	1	LS	\$	2,323.20	\$	2,323.20
	I.					\$	-
						\$	-
						\$	7,075.20
		Contingency			10%	\$	707.52
		Sub-Total - Co	onstruction l	abor		\$	7,782.72
		Rounded Up	Value				\$7,800.00

*** Outside Contractor ***

Unit of Property	Description	Quantity	Unit of Measure	Un	it Cost		Total
	County Permits (Encroachment)	1	LS	\$	462.00	\$	462.00
	DOH Review Fees		LS			\$	
	Hydrogeologist	1	LS			\$	-
	Geolechnical Engineer		LS			S	
	Engineering Consultant		LS			\$	-
	Land Surveyor		LS			\$	
	Land Cost	1	LS			3	
	Additional Insurance		LS			3	-
	Bonding		LS			\$	
	Sanitary Facility Rental (Portable Toilet)	1	LS	\$	-	S	-
	Paving Contractor - Pavement Restoration	1	LS			\$	-
	Traffic Control Contractor - Flaggers	1	LS	\$	_	\$	-
						\$	-
	44- 6000					5	~
						5	-
						\$	-
		SUB TOTAL				\$	462.00
		Contingency			10%	\$	46.20
		Sub-Total - O	utside Contr	actor		\$	508.20
		Rounded Up	Value				\$600.00
		Project Subto	lal =			\$	8,400.00
		Federal Tax p	er the TCJA	=		\$	2,232.91
		State B&O Ta	x =			\$	161.92
		Anticipated To	CJA Tax=			S	20,185.28
		Projected I	unds Re	quired	=		\$30,980

Assumptions:

- 1) This document is intended to forecast approximate construction costs based upon dument information and similar projects, and is not intended to accurately represent actual design or construction components or phose.
- 2) Totals are rounded to nearest \$100

5 | Page

Quality. Service. Value.







Christ Community Baptist Chur 80 16 176th St E Puyallup, WA 98375 253-846-3000	U.S. BANK PARKLAND BRANCH 19-10/1250 19-10/1250	12/16/2020		
Washington Water Service ORDER OF Fifteen Thousand Four Hundred Ninety and 00/	100************************************	\$**15,490.00		
Washington Water Service PO Box 35006 Seattle, WA 987124-3406	VALD VI MID VALUE MARROWS ALL DE VALUE VAL	DOLLA DOLLA		
IEMO	AUTHORIZED SIGNATURE	Market and the second s		
IEMO	1983 173 S. Francisco Communication Communic			

60210 · Building Fund Expense

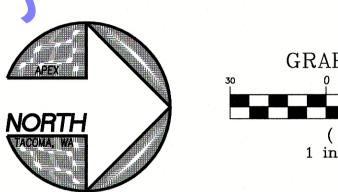
Water Main

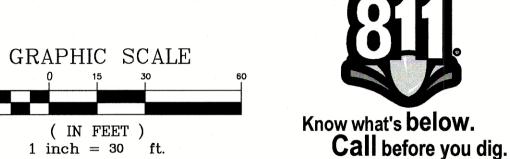
15,490.00

General Operating Fu

15,490.00

WASHINGTON WATER SERVICE WASHINGTON WATER SERVICE WASHINGTON WATER SERVICE WATER Availability Request Processing 1 (Nov 1 Carefold Service) 1 (Nov 1 Carefold Service) WATER Availability Request Processing 1 (Nov 1 Carefold Service) PARCE Conset STOCKE Service Ser	RECEIVED IAN 22, 2021 WA UT	& TRANS COMM ORIGINAL I	IW-210047
Water Availability Request Processing	WASHINGTON WATER SERVICE	INGHENOS TITTI I	/ LA LANG.
PARCE CAMPAGE Analog A	Water Availability Request Processing	ACCTNO. LEGAL DESCRIPTION	
PACE CONST.	Ep et Q		
PASS OWN			
Processor	WAI ROST ROVD APP-FEE REVIEWED	VAL-CERT HOLD/CMPLTD	
Page 18			
PARSEN NO.			
Construction	SiteAddress:		
WALROUSTAPPLATION RESPONSING PS COMMUNICATION RECONSTRUCTS RECONSTRUCTS CONTROLLED CONTROLLED COMMUNICATION CONTROLLED	PARCEL NO: #CONNS: WELLC	NPROPERTY(→ENGRVW)	
WALROUSTAPPLATION RESPONSING PS COMMUNICATION RECONSTRUCTS RECONSTRUCTS CONTROLLED CONTROLLED COMMUNICATION CONTROLLED	WATERSYSTEM! CNTY: BASEN	AP#:	
Corporation Continue Contin		NOTES	
Comparison: National Valence National Valence National	WALREQUESTAPPLICATION RESIDENTIAL (0-2) L. RESIDENTIAL (0-2) L	LI COMM/PLATDEVE	
DISORDETINE REPORT REPOR			
RESIDENTIALINA RESI			
Description		The state of the s	
	1		
ServiceConnection:			
DRIVET MANUFORMAN		→ENGR/w)	
DATE-MUTERNITY PREFEDOX**Discholar PART DISPUSION		Land A Friedrich	
DENDERLETTER: CVERNUED GIS November Sent oct	The state of the s		
Current Cooks Act Area Salah Act Act A	LINCILOW , LINCILOW	ELOPIVIEINI (E.S.A.II)	
Current Curr	SADED ETTER CONTROL OF (MMSOrSougher)	Sent-Date	
PARCELLOCATION	☐ LENDERLETTER: ☐ CNFRMED GIS (WVIROYSARWOAREA)		
SERVICELOCATION/Binsharis: DESTING CHESTRACTORIC TAP/PUSH CIOCOSING MAINEXT/OTHER Foreithind CONNECTION/AUALARE: DYS (FOORBURD) NOI-PREADWOOD ARCAS CONNECTION/SUMMARY: DYS (FOORBURD) NOI-PREADWOOD ACTA RESIDENTIALIP? RESIDENTIALIP? VERIPS SIVELOCATION (SECTION/BONNER)	CURRENTSERVICE: CC&B(ACCT PREMISE) SATIN (ACCT NOTES) WALCERT (HOC	KUPFEE DUE)	
CONNECTIONALANABLE: YES 4-contests No! + Preserved ATMA			
APPLIANT SANCONNEED NO HORANT PEDDING CANAPTONIO	 	AINEXT/OTHER(→ENGRW)	
CONNECTIONSUMMARY: YES (ACRIMINAL) PENDING (CONNECTION)		Arme	
RESIDENTIALIP? VEREY/SRVCLOCATION (EASING/UP/IP/OHRE)	APPROVED CONVINIED	ALIIVE	
VERIFYSRVCLOCATION DASSENULIPETONNES SOFT ONS	CONNECTIONSUMMARY: ☐ YES (\$\frac{1}{2}\continue}) ☐ NO (\$\to\$engraw) ☐ PENDING (Committosray)		
VERIFYSRVCLOCATION DASSENULIPETONNES SOFT ONS	RESIDENTIAI (0-2)		
→FIELDORS: FIELDORDER VERIFYLOC		Sent-Ops	
CHARGE CODES FOR TIME COLOTION VERIFIED (CORRIGGRACKONER) PROCESSING DROCKONS 1318		(F/ORDR#)	
DOCATION VERIFIED (COMENGENCPOWNER) ROSO IS	(DEPT)		
□ DirectConn □ ChsSRvCDBL TAP/PUSH PARCROSSING □ OTHER(+ENGRAW) → APPLICANT: □ APPFORWATERSERVICE □ CFRMSRVC PARCCONNES: \$664 \$5036.50 \$PRENCUEPRE) □ FACILITYCHEG □ DISCLAIMER PARCICIOSONO □ H-DORANT (\$13.684) → CSRVC: □ SRVCCONNEE/APP-WITESRVC □ CREATE CC&B ACCT/PREMISE □ DISCLAIMER RECORDED □ FIELD PROPER INSTALLSRVC □ CREATE CC&B ACCT/PREMISE □ DISCLAIMER RECORDED □ FIELD SINCTAL-PASSINCITAR-PASSI		, '	_
→APPLICANT: □ APPFORWATERSERVICE □ CFRMSRVC [SINCCONFEE: 3654] \$301650 \$PREVIOUSPAD) □ FACILITYCHRG (5) □ DISCLAIMER (PINELEOCERIC) □ HORANT (\$11,684) □ → CSRVC: □ SRVCCONNFEE/APP-WITSRVC □ CREATE CC&B ACCT/PREMISE □ DISCLAIMER (PINELEOCERIC) □ FIELDORDER INSTALLSRVC □ SRVCCONNFEE/APP-WITSRVC □ CREATE CC&B ACCT/PREMISE □ DISCLAIMER (PINELEOCERIC) □ → ACCT; (THERT: TAP DISSINCTION-PLANISECUTORS) □ (PINELEOCH) (PINELEOCH) □ NSTALLSRVC (DRECT CMC PROSECT) (DIPT) (ACCTIN) (PINELEOCH) □ INSTALLSRVC (DRECT CMC PROSECT) (DIPT) (ACCTIN) (PINELEOCH) □ INSTALLSRVC (DRECT CMC PROSECT) (DIPT) (ACCTIN) (PINELEOCH) □ INSTALLSRVC (DRECT CMC PROSECT) (DIPT) (ACCTIN) (PINELEOCH) □ INSTALLSRVC (DRECT CMC PROSECT) (DIPT) (ACCTIN) (PINELEOCH) □ INSTALLSRVC (DRECT CMC PROSECT) (PINELEOCH) (PINELEOCH) □ INSTALLSRVC (DRECT CMANISCHIE) (PINELEOCH) (PINELEOCH) □ INSTALLSRVC (DRECT CMANISCHIED NONLALIZIONE) (DIPT) (ACCTIN) □ INSTALLSRVC (DREAD CONTRACTOR) (PINELEOCEN) (PINELEOCEN)			
SERVICE SPACELYCHRG (5 DISCLAIMER (PAREDICIOSERS) HYDRANT (511,884)	· · · · · · · · · · · · · · · · · · ·	CONTRACTOR	
CSRVC: SRVCCONNFEE/APP-WTRSRVC CREATE CC&B ACCT/PREMIS DISCIAIMER/RECORRED) FIELDORDER INSTALLSRVC (SISSED-DRIT)	(SENT-DATE)		
SERVICE INSTALLATION (TAREF RATE) (BALSTATUSLIFOTPOWNER) (REGEDATE)			
→ ACCT: (TARRET TAP-DELSANC TAP-PLUSH SANCUTRINED) (PROJECT) SERVICE INSTALLATION (TARRET RATE) ((SENT DATE)		
SERVICE INSTALLATION (TARRERATE) (EMISTALUSUPOTPOWNER) (F/ORCRIP) □ INSTALLSRVC (DRECT CAC PROJECT) (DEPT) (ACCTINO) (PROJE) (INSTALLCAPLIDT) □ FIRE FLOW AVAILABLE (+BIGRAW) □ NOTRORD □ YES □ NO □ HYDRANT □ (GPM) PSI DARGEN HESMOLDENNER(FI) HESMOLDENNER(FI) HESMOLDENNER(FI) □ RESIDENTIAL (3+) □ FIREFLOW □ HYDRANT □ COMMERCIAL /PLAT/BLA (PROJPLANS/DRAWNES) □ OTHER SRVCLOC → ENGADM: □ HYDRANT □ TRELEASELTR DATE SENT → AGMADM: □ ISSUECNSTAGRLTR (MARKET] HESMOLD (DEPT) (ACCTINO) DATE SENT → APPLICANT: □ AGRS (GNED / DEPOSIT □ APP—WTR SRVC □ APP—WTR SRVC: □ APP—WTR SRVC □ CREATE CC&B ACCT / PREMISE □ DISCLAIM (ER/DECONDED) □ INSTALLSRVC (MANACTERSIONS/HORMANI/OTHER/SIGNEM/MEROLENERS) (F/ORCRIP)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(ROST-DATE)	
SERVICE INSTALLSRVC DRECT CIAC PROJECT DEPT (ACCTNO) (PROJET) (INSTALLSRVC DRECT CIAC PROJECT) DURATION HICHWRIDGIANQ(F) HICHWRIDGIANQ(F) HICHWRIDGIANQ(F) HICHWRIDGIANQ(F) FIRE FLOW AVAILABLE(+ENGRW) NOTRORD YES NO HYDRANT (ROST-DATE) (GPM)		(E/Oppd#)	
INSTALLSRVC DRELT GREATHURELT 103000	(Drord (AcctAlo) (DrostA)		
FIRE FLOW AVAILABLE**-CISSINN* NOTRORD YES NO HYDRANT		(MOTALLINELIUI)	
Common	□ FIRE FLOW AVAILABLE (→ENGRAW) □ NOTRORD □ YES □ NO □ HYDRANT	(ROST-DATE)	
RESIDENTIAL®+ FIREFLOW HYDRANT COMMERCIAL/PLAT/BLA(PROIPLANS/DRAWINGS) OTHERSRVCLOC		HYDRANI(#)	
RESIDENTIAL®+ FIREFLOW HYDRANT COMMERCIAL/PLAT/BLA(PROIPLANS/DRAWINGS) OTHERSRVCLOC			
→ENGADM: HYDRANTLTR MOULTR Devel/PlatLtr ReleaseLtr Date Sent →GMADM: IssueCnstAgrLtr Mankett Hydrantl Otherimprov) Date Sent →APPLICANT: AGRSIGNED/Deposit APP-WTRSRVC Date Recemed →ACCT: (Iciac Project-Contracted Installations) (Dept) (Acctino) (Project) (InstallCmp1:Dt) →CSRVC: APP-WTRSRVC CREATE CC&B Acct/Premise Disclaimer(Recorded) (Sent-Date) InstallSrvc (Manketensions/Hydranti/Others/stemim/provements) (F/Ordatf)	ENGINEERING (EMISTATUSUPDTPOWNER)	SENT/TEAMS-ENG	
→ CINGADM. □ ISSUECNSTAGRLTR (MANEXT HYDRANT OTHERIMPROV) DATE SENT → APPLICANT: □ AGRSIGNED/DEPOSIT □ APP-WTRSRVC DATE RECEMED → ACCT: (CIAC PROJECT-CONTRACTED INSTALLATIONS) (DEPT) (ACCTNO) (PROJET) (INSTALLCMPLTDT) → CSRVC: □ APP-WTRSRVC □ CREATE CC&B ACCT/PREMISE □ DISCLAIMER(RECORDED) □ (SENT-DATE) □ INSTALLSRVC (MANEXTENSIONS/HYDRANT/OTHERS/STEMIM/PROVEMENTS)	☐ RESIDENTIAL ⁽³⁺⁾ ☐ FIREFLOW☐ HYDRANT☐COMMERCIAL/PLAT/BLA(PROJPLANS/DRAWING	OTHERSRVCLOC	
→ APPLICANT: □ AGRSIGNED/DEPOSIT □ APP-WTRSRVC □ DATE RECEIVED → ACCT: (CIAC PROJECT-CONTRACTED INSTALLATIONS) □ (DEPT) □ (ACCTNO) □ (INSTALLATIONS) □ (INSTALLATIONS) □ (DEPT) □ (ACCTNO) □ (INSTALLATIONS) □ (INSTALLAT			
→ACCT: (CIAC PROJECT-CONTRACTED INSTALLATIONS) (DEPT) (ACCTINO) (PROJ#) (INSTALLCMPLTDT) →CSRVC: APP-WTrSRvc □ Create CC&B Acct/Premise □ Disclaimer(Recorded) [SENT-DATE] □ INSTALLSRvc (MainExtensions/Hydrant/Others/steminimprovements) (F/Order#)			
→ ACCT: (LIAC MODECI CONTRACTED INSTALLATIONS) 103000 → CSRVC: APP-WTRSRVC □ CREATE CC&B ACCT/PREMISE □ DISCLAIMER(RECORDED) [SENT-DATE] □ INSTALLSRVC (MAINEXTENSIONS/HORANT/OTHERSISTEMIMIRROVEMENTS) (F/ORD#)			
(SENT-DATE) INSTALLSRVC (MainExtensions/Hydrant/OtherSystemImprovements) (F/Ord#)	→ A CCT・(UAC-PROJECT-CONTRACTED INSTALLATIONS)	(INSTALLAMPLIDI)	
☐ INSTALLSRYC (Wearestersoung interests territories)			
CERT OF WATER AVAILABILITY (New Reissue)	(SENT-DATE) INSTALLSRVC (MainExtensions/Hydrant/OthersystemImprovements)	(F/Ordr#)	
COLITION WATER WATER WATER WATER A STATE OF THE STATE OF	CERT OF WATER AVAILARILITY (New Ressue)	DATE SENT	
	— SERI OF WATER WAS INSIGNATION		_





1 - 8" x 6" TEE -

FIRE HYDRANT ASS'Y

- SAMPLING STATION

THRUST BLOCKING



- 8" 45° BEND

THRUST BLOCK

2 - 8" 45° BEND

THRUST BLOCK

WASHINGTON WATER SERVICE

— 1 – 8" X 6" TEE

APPROX. LOCATION -

OF EX. 6" SEWER

CLEAN OUT (TYP.)

 $RIM = 488.9 \pm$

 $IE = 483.7 \pm$

- 1 - 8" 45° BEND

THRUST BLOCK

1 - 6" GATE VALVE

1 - 6" DETECTOR CHECK VALVE

FOR 6" FIRE LINE (BY OTHERS)

CHRIST COMMUNITY BAPTIST CHURCH - WATER MAIN EXTENSION - PLAN

A PORTION OF SEC. 32, TWP. 19 N., RGE 4 E., W.M. PIERCE COUNTY, WASHINGTON

DESIGN APPROVAL, DATE WASHINGTON WATER SERVICE DESIGN FIRE FLOW = 1,500 GPM. / 2 HRS.

/≥1 - 8" x 6" TEE

1 - 6" GATE VALVE

THRUST BLOCKING

1 - 8" x 6" TEE

THRUST BLOCKING INSTALL TEMPORARY

1 - 6" GATE VALVE

BLOW OFF AND SAMPLE

TAP. BLOW OFF AND

MADE FOLLOWING THE

SAMPLE TAP WILL BE

≥ REMOVED AND FINAL CONNECTION WILL BE

COMPLETION OF

DISINFECTING AND

NEW MAIN.

≥ PRESSURE TESTING THE

APPROX. LOCATION OF EX. -

IE 6" IN (W) = $469.24\pm$

 $IE 8" IN (W,E) = 469.17\pm$

 $1E 8" OUT (N) = 469.11 \pm$

1 - 8" 45° BEND

THRUST BLOCK

EX. FIRE HYDRANT

TO BE RELOCATED

RELOCATED EX. -

CONNECT TO EXISTING WATER MAIN

PER WWS DIRECTION. CONTRACTOR TO

VERIFY THE LOCATION AND DEPTH OF

THE EXISTING MAIN AND THE FITTINGS

REQUIRED FOR CONNECTION PRIOR TO

FIRE HYDRANT \ \ \ /18 L

EX. 6" LINE TO BE REMOVED

1 - 8"x 6" REDUCER

2 LF 6"

1 - 6" 45" BEND

THRUST BLOCKING

CONSTRUCTION.

OF EX. 6" SEWER

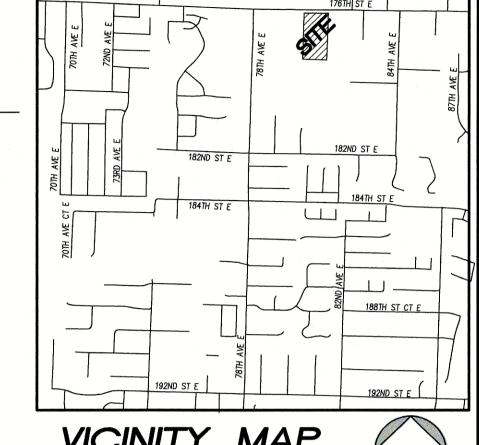
20' PROPOSED

EX. FIRE HYDRANT

EX. 8" WATER

WATER EASEMENT

SSMH#399610-01 $RIM = 485.69 \pm$



VICINITY MAP SCALE: 1"=1/4 MILE

GENERAL NOTES:

- CONSTRUCTION METHODS FOR PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH DIVISIONS 7 AND 9 OF THE LATEST EDITION OF THE STANDARD PLANS AND STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA) EXCEPT ALL REFERENCES TO ENGINEER SHALL BE CHANGED TO OWNER.
- 2. PIPE MATERIAL SHALL BE CLASS 52 DUCTILE IRON PIPE.
- 3. BLOW-OFF ASSEMBLIES SHALL BE INSTALLED WHERE SHOWN ON THE
- 4. AIR RELEASE VACUUM VALVES SHALL BE INSTALLED WHERE SHOWN ON THE PLANS AND ALL SYSTEM HIGH POINTS.
- 5. SAMPLING STATIONS SHALL BE INSTALLED APPROXIMATELY WHERE SHOWN ON THE PLANS OR ADDED PER WWS DIRECTION. FINAL LOCATION(S) TO BE DETERMINED IN THE FIELD BY WWS.
- 6. PIPE SHALL HAVE A MINIMUM OF 36 INCHES OF COVER. EXACT DEPTH OF PIPE SHALL BE DETERMINED IN THE FIELD TO GENERALLY CONFORM TO TOPOGRAPHY. PIPE SHALL MAINTAIN POSITIVE SLOPE BETWEEN BLOW-OFFS AND AIR RELEASE VALVES.
- 7. PRESSURE TESTING AND DISINFECTION SHALL BE IN ACCORDANCE WITH DIVISION 7 OF THE ABOVE REFERENCED SPECIFICATION.
- 8. SOME UTILITIES SHOWN ARE BASED UPON AS-BUILT PLANS, THE LOCATIONS ARE APPROXIMATE ONLY. NOT ALL EXISTING UTILITIES AND SERVICES HAVE BEEN LOCATED OR SHOWN. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE ONE-CALL NUMBER IS 1-800-424-5555. NOT ALL UTILITY OWNERS OR OPERATORS SUBSCRIBE TO THE ONE-CALL
- 9. EASEMENTS, FRANCHISES AND PERMITS SHALL BE OBTAINED FOR ALL WATER LINE CONSTRUCTION. MINIMUM EASEMENT WIDTHS SHOULD BE 15
- 10. THE OWNER, HIS REPRESENTATIVE, OR THE CONTRACTOR SHALL BE REQUIRED TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE FOR ALL WATER CONSTRUCTION SHOWN ON THESE PLANS. THE CONFERENCE SHOULD BE SCHEDULED BY CALLING (253) 537-6634 TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.

WASHINGTON WATER SERVICE NOTES

- ANY REQUIRED SPECIFICATIONS NOT INDICATED WILL FOLLOW MOST CURRENT "STANDARD SPECIFICATIONS FOR WASHINGTON WATER SERVICE" AND AWWA STANDARDS.
- 2. ALL PIPING TO BE BEDDED 4" MINIMUM UNDER PIPE AND 6" MINIMUM OVER PIPE. BEDDING UNDER PIPE TO BE PLACED IN TRENCH PRIOR TO INSTALLING WATER MAIN.
- 3. USE 14 GAUGE LOCATE (TRACER) WIRE, ATTACHED TO WATER MAIN AND ALL FACILITIES. LOOP TO TOP OF ALL VALVE BOXES AND BLOW OFF
- 4. DETECTION TAPE TO BE 18" TO 24" BELOW FINISH GRADE, RUN DETECTION TAPE OVER MAINS AND SERVICE LINES.
- 5. ALL VALVE RISERS TO BE CAST IRON.
- 6. ALL FIRE HYDRANTS TO BE "IOWA", "M & H", OR "MUELLER CENTURION" TYPE ONLY. ALL HYDRANTS TO BE EQUIPPED WITH 5" STORZ ADAPTORS.
- 7. ALL HYDRANTS TO BE SECURED WITH SHACKLE (TIE) RODS OR MEGA-LUG CONSTRUCTION.
- 8. ALL BLOW-OFFS, AIR RELEASE/VACUUM VALVES, AND SAMPLING STATIONS TO MEET WWS APPROVAL PRIOR TO INSTALLATION.
- 9. ALL BLOW-OFFS TO BE INSTALLED WITHIN CONCRETE BLOW-OFF/METER BOX, SET TO FINISH GRADE AND MEETING HS-20 LOADING STANDARDS.
- 10. ALL BENDS, CAPS, TEES, WYES AND FITTINGS TO BE THRUST BLOCKED.

NOTE:

THE LOCATIONS OF THE WATER METERS SHOWN ARE APPROXIMATE ONLY. METERS SHALL TYPICALLY BE LOCATED WITHIN R.O.W. OR UTILITY EASEMENT AT PROPERTY LINES. METER LOCATIONS IN QUESTION SHALL BE DETERMINED BY THE RVWC FIELD SUPERVISOR. MAINTAIN MINIMUM REQUIRED SEPARATION BETWEEN WATER MAINS/SERVICE LINES, AND SANITARY SEWER MAIN LINES AND STU

SOME EXISTING UTILITIES SHOWN ARE BASED UPON AS-BUILT PLANS, THE LOCATIONS ARE APPROXIMATE ONLY. NOT ALL EXISTING UTILITIES **\{ \}** AND SERVICES HAVE BEEN LOCATED OR SHOWN.THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

THE BOUNDARY AND SITE LAYOUT INFORMATION SHOWN HEREON WAS TAKEN FROM THE ARCHITECT'S DESIGN BY ARCHITECTURAL SERVICES, INC. RECEIVED 02/06/2020.

DATE SEALED 108/202



PROJECT MANAGER KIM A SAVAGE, P.E.

DATE <u>02-19-2020</u>

DESIGN DRAWN CHECKED K8 SEC 32 T 19 N R 4 E FILE NO 34877-WAWRK.DWG

SCALE 1" - 30' SHEET 1 OF 3 FILE NO

PAPEX ENGINEERING LLC 2020

LEGEND: ♠ FIRE HYDRANT ★ FIRE DEP. CONNECTION (FDC) ■ WATER METER BLOW-OFF VALVE GATE VALVE → TV DETECTOR CHECK VALVE ____ AIR VACUUM RELEASE VALVE SAMPLING STATION **▼** TAPPING TEE PROPOSED WATER LINE

REMOVE EX. CAP OR PLUG AND CONNECT — TO 8" EXISTING WATER MAIN PER WWS DIRECTION. CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF THE EXISTING MAIN AND THE FITTINGS REQUIRED FOR CONNECTION PRIOR TO CONSTRUCTION. 1 - 8" GATE VALVE (TO REMAIN CLOSED DURING CONSTRUCTION)

166 LF 8"

NO PARKING

20' PROPOSED

WATER EASEMENT

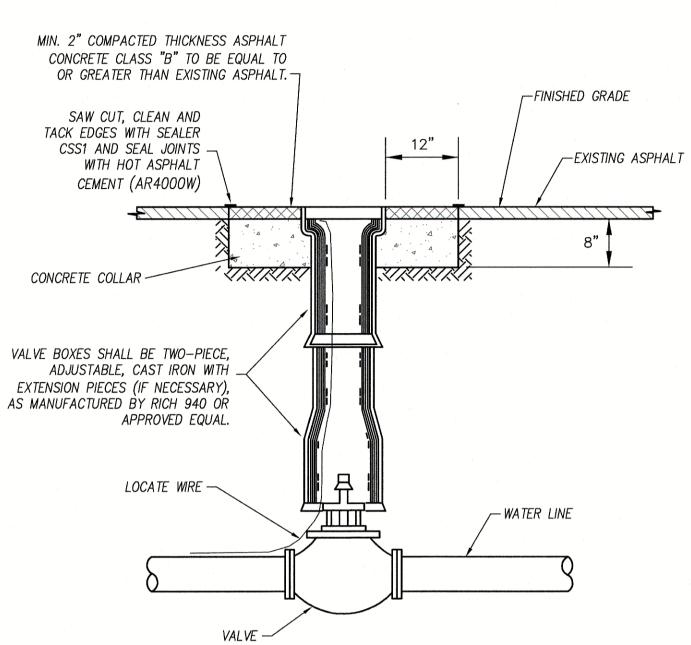
-----F----- PROPOSED FIRE LINE

---W----W- EXIST WATER LINE

WASHINGTON WATER SERVICE

CHRIST COMMUNITY BAPTIST CHURCH - WATER MAIN EXTENSION - PLAN

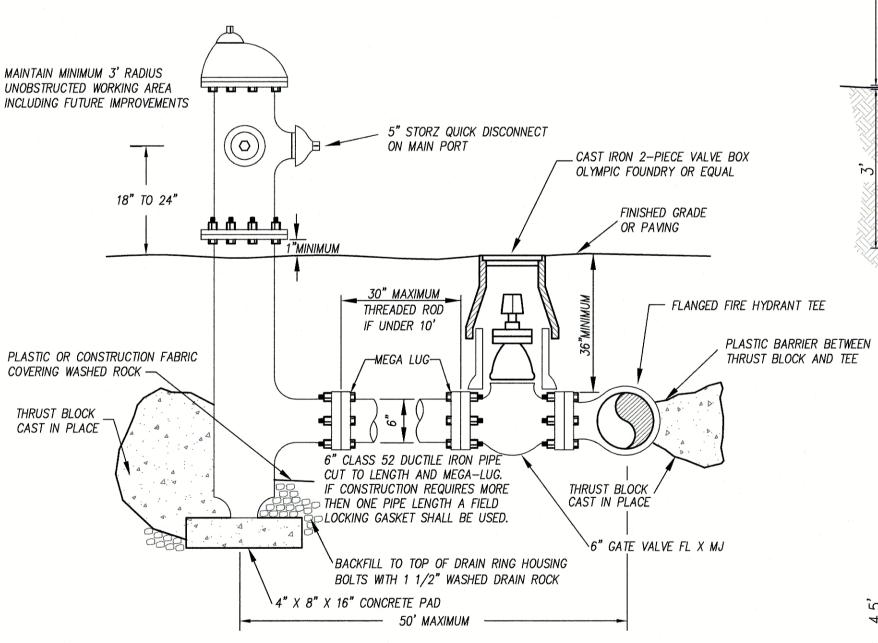
A PORTION OF SEC. 32, TWP. 19 N., RGE 4 E., W.M. PIERCE COUNTY, WASHINGTON



- 1. VALVE BOXES TO HAVE TABS TURNED IN THE DIRECTION OF THE WATER MAIN INSTALLED ON, AND CENTERED OVER OPERATING NUT ON VALVE.
- 2. ALL EXISTING CAST IRON VALVE BOXES SHALL BE ADJUSTED TO GRADE WITH CAST IRON
- 3. ALIGNMENTS OF THE VALVE BOX SHALL BE THE DEVELOPERS RESPONSIBILITY AND CARE SHALL BE TAKEN TO ENSURE THAT THE VALVE MAY BE OPERATED.
- 4. LOCATE WIRE TO EXTEND MINIMUM OF 12" BEYOND TOP OF VALVE BOX.

VALVE BOX

(REVISED 2013)



TYPICAL FIRE HYDRANT DETAIL

- 1. ALL HYDRANTS WILL BE DRY BARREL
- A MINIMUM OF 4.5 FEET IN LENGTH. 2. MECHANICAL JOINT INLET, 5 1/4"

MAIN VALVE WITH 6" INLET.

2. CLOW "MEDALLION" 3. M&H 929 "RELIANT"

5. AVK

4. WATEROUS "PACER MODEL"

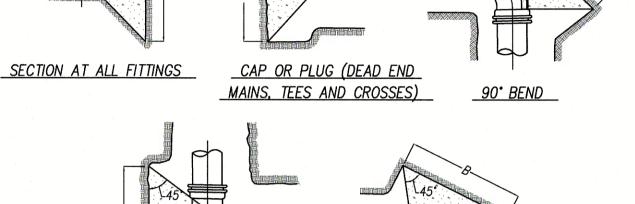
HYDRANT BOLLARD DETAIL (REVISED 2013)

ASSEMBLY

PROFILE VIEW

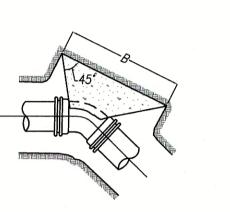
-HYDRANT

ASSEMBLY (TYP)



TEES AND WYES

- 1. THRUST BLOCKS ARE REQUIRED ON ALL FITTINGS FOR PRESSURE PIPE WITH PUSH-ON OR MECHANICAL TYPE JOINTS.
- 2. ALL CONCRETE BLOCKING SHALL BE POURED AGAINST DRY, UNDISTURBED SUBGRADE. THE TABLE IS BASED UPON 2000 LBS. S.F. ALLOWABLE SOIL BEARING. WEAKER SOIL WILL REQUIRE INCREASED BEARING AREA. SQUARE FOOTAGE IN TABLE IS DETERMINED FOR TEST



45; 22-1/2; AND 11-1/4° BENDS

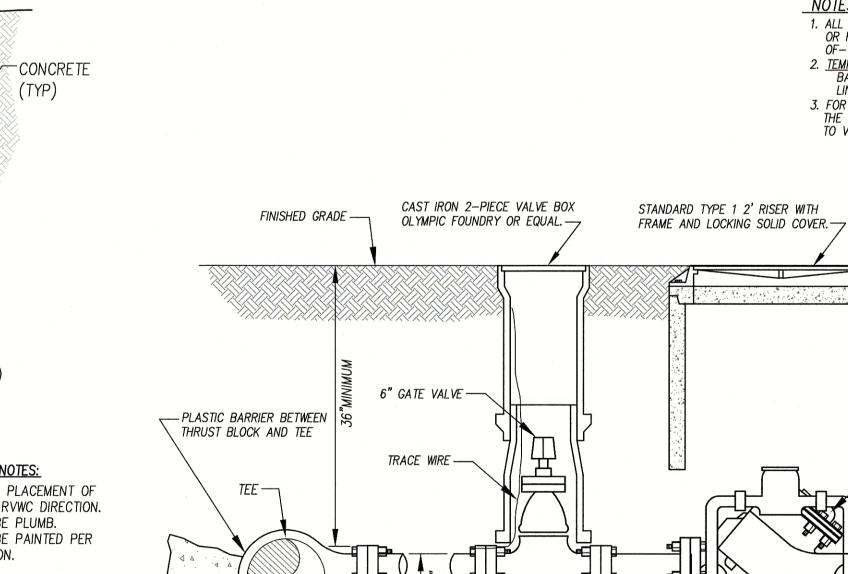
$A \times B =$	BEARING	AREA REG	Q'D IN SQ.	FT. (SEE	NOTE 2)
SIZE	CAP,PLUG OR TEE	90°BEND	45°BEND	22–1/2° BEND	11–1/4° BEND
<6" 8"	4.5	6.0	3.5	2.0	1.0
	7.5	10.5	6.0	3.0	1.5
10"	11	15.5	8.5	4.5	2.5
12"	15.5	22.0	12.0	6.0	3.5
14"	21.0	29.5	16.0	8.5	4.5
16"	27.0	38.0	20.5	10.5	5.5

THRUST BLOCK DETAIL

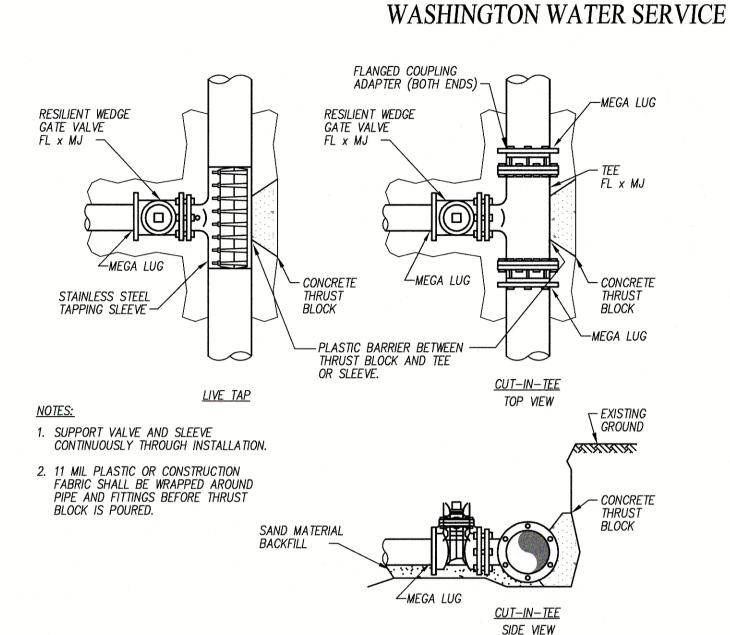
(REVISED 2013)

BARRIER POST

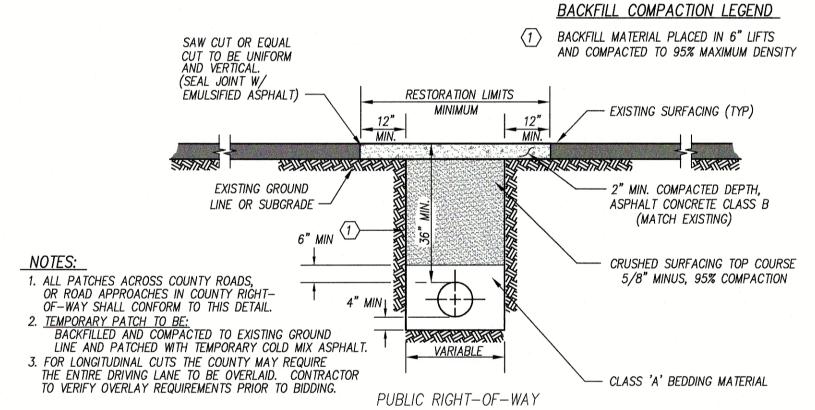
-FINISH GRADE



(REVISED 2013)



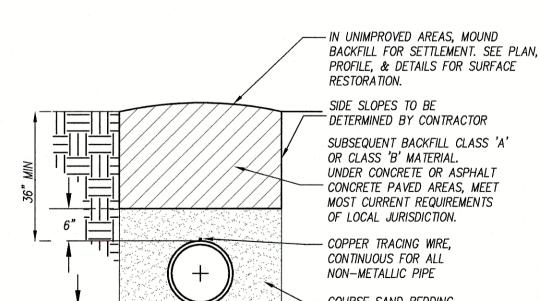
CONNECTION TO EXISTING MAIN DETAIL N.T.S. (REVISED 2013)



UTILITY PATCH DETAIL

(REVISED 2013)

DESIGN APPROVAL, DATE



TYPICAL TRENCH DETAIL

COURSE SAND BEDDING

FOUNDATION STABILIZATION WHERE SHOWN OR AS DIRECTED, CLASS 'D' OR 'E' MATERIAL

SEC 32 T 19 N R 4 E FILE NO 34877-WAWRK.DWG DATE <u>02-19-2020</u> SCALE AS NOTED

DESIGN RB

CHECKED KS

DRAWN

SHEET 2 OF 3 FILE NO 9 APEX ENGINEERING LLC 2020

PROJECT MANAGER

KIM A SAVAGE, P.E.

DATE SEALED 10/08/2020

(REVISED 2013)

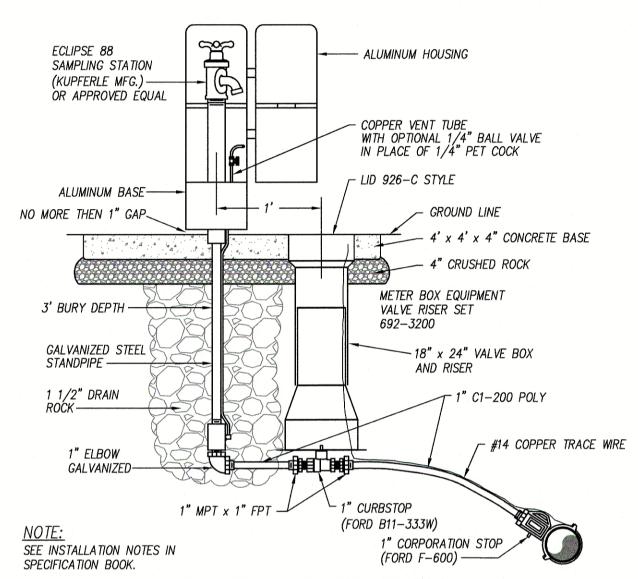
CONSTRUCTION NOTES: -6" DETECTOR CHECK VALVE 1. QUANTITY & PLACEMENT OF WITH METER (FEBCO MODEL POSTS PER RVWC DIRECTION. 800 SERIES OR APPROVED POSTS TO BE PLUMB. POSTS TO BE PAINTED PER SPECIFICATION. BARRIER POST (REVISED 2013) (TYP) **ACCEPTABLE HYDRANTS:** PLAN VIEW FIRE LINE DETECTOR CHECK VALVE DETAIL 1. MUELLER "SUPER CENTURION 250"

WASHINGTON WATER SERVICE

CHRIST COMMUNITY BAPTIST CHURCH - WATER MAIN EXTENSION - PLAN

A PORTION OF SEC. 32, TWP. 19 N., RGE 4 E., W.M. PIERCE COUNTY, WASHINGTON

DESIGN APPROVAL, DATE WASHINGTON WATER SERVICE



SAMPLING STATION N.T.S.

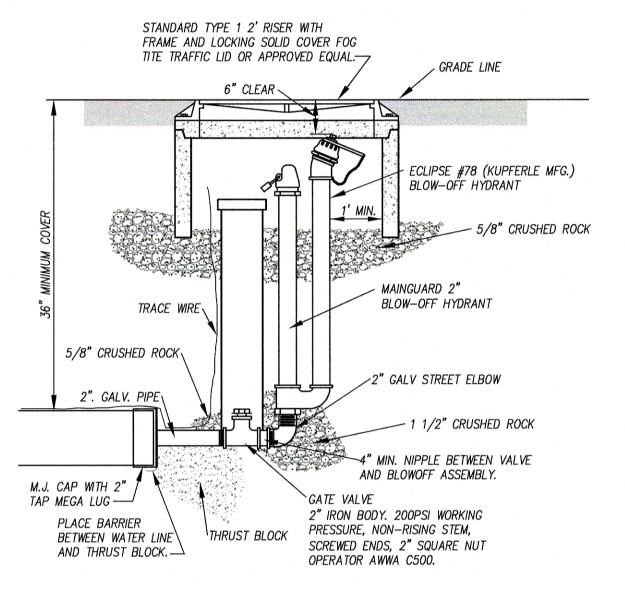
(REVISED 2013)

INSTALLATION NOTES:

- 1. SAMPLING STATIONS SHALL BE 3' BURY, WITH A 1" FIP INLET, AND A (1" HOSE OR UNTHREADED) NOZZLE.
- 2. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE, ALUMINUM—CAST HOUSING.
- 3. WHEN OPENED. THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY.
- 4. ALL WORKING PARTS WILL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. EXTERIOR PIPING SHALL BE GALVANIZED STEEL (BRASS PIPE ALSO
- 5. A COPPER VENT TUBE WILL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIA GROWTH.

BACK FILL MATERIAL:

POLY PIPE WILL BE BEDDED IN SAND A MINIMUM OF 4" BELOW AND 6" ABOVE. A MINIMUM OF 4: CRUSHED ROCK AND 24" OF 1 1/2" DRAIN ROCK WILL BE PLACED AROUND THE STATION. A 4'x4'x4' CONCRETE SLAB WILL BE POURED AROUND STATION TO GRADE WITH SURROUNDING AREA WITH NO MORE THAT A 1" GAP AT THE BASE OF STATION AND SLAB.



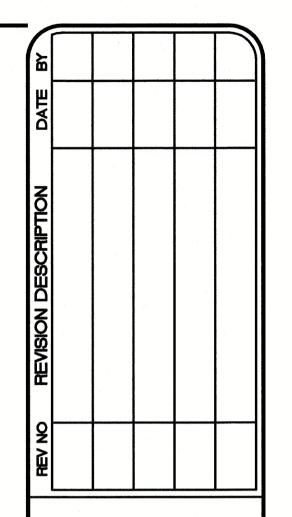
BLOW-OFF ASSEMBLY DETAIL

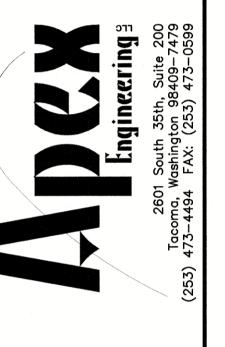
N.T.S. (REVISED 2013)

INSTALLATION NOTE:

1. BLOW-OFF WILL EXTEND FORM END OF MAINLINE.

- 2. THRUST BLOCK WILL BE POURED AS NOT IMPEDE THE DRAINING
- 3. A MINIMUM OF 18" OF 1 1/2" DRAIN ROCK WILL BE PLACED AT THE BOTTOM OF TRENCH WITH THE REMAINDER OF TRENCH BACKFILLED WITH 5/8" CRUSHED ROCK TO THE BASE OF THE
- 4. #14 TRACE WIRE WILL BE RUN UP AND INTO THE BLOW-OFF BOX.





DATE SEALED 10/08/2020

		ONAL
ET NO.	PROJECT M	MANAGER SAVAGE, P.E.
3 PERMIT	DESIGN !	RB

DRAWN RB CHECKED KS__ SEC 32 T 19 N R 4 E FILE NO 34877-WAWRK.DWG DATE 02-19-2020 SCALE AS NOTED

SHEET 3 OF 3 © APEX ENGINEERING LLC 2020