Addendum No. 1
To the Plans, Specifications, Proposal, and Contract Documents

City of Kirkland
5th/8th Watermain Replacement
Job No. 09-22-PW/CIP No. WAC1340000

Notice to All Plan Holders:

This Addendum No.1, containing the following revisions, additions, deletions, and/or clarifications is hereby made part of the Plan and Contract Documents for the above-named project. Bidders shall take this Addendum into consideration when preparing and submitting their bids. With issuance of this Addendum, it shall be incorporated into the Contract Documents.

Contractors shall acknowledge receipt of this Addendum in the place provided in the Bid Form. Failure to do so may disqualify the Bidder from consideration of its bid.

All other requirements of the contract documents remain in effect.

ISSUED THIS DATE: August 12th, 2022

GENERAL

Questions and Answers

Q1 The bid schedule does not have dollar values for some of the EST and FA unit items. Is this something the City will provide prior to the bid? The specific items are A-31 and A-45

A1: *Please see revised Bid Tab for changes to the units for A-31 changed from FA to EA and A-45 changed from EST to LS.*

Q2: Will the traffic control and detour plans need to be provided by the Contractor, and, if so, will they need to be prepared and stamped by a Professional Engineer?

A2: *From Transportation Engineer: The contractor should provide traffic control plans and any detour plans. They do not need to be stamped by a PE though.*

Q3: Where do I find the measure and payment for the hydrant assemblies?

A3: *The primary specifications for this project are the 2022 WSDOT Spec. Book. The Special Provisions only provide applicable supplemental or replacement provisions. In the absence of a Special Provision, WSDOT Specifications apply.*

Q4: Is the 6” pipe included in Bid Tab Item A-25, and is the mainline tee be with the DI pipe bid items?

A4: *WSDOT 7-14 does not list the 6IN DI pipe as included in the payment provision for the Hydrant Assembly. Therefore, the 6IN DI pipe will be paid under Item A-25. Also, per section 7-14.5, the mainline tee is to be paid as part of the DI pipe bid items.*

Q5: What part of the proposed storm drain system is paid under bid items A-19 thru A-22?

A5: *Storm drain system located in 8th ST S work is required to accommodate the new fire main, therefore this work is included in Bid Tab A.*

Q6: What part of the proposed storm drain system is paid under bid items B-13 thru B-16?
A6: *Bid Tab B is for the 5th AVE S Storm Drain, which is separate, and not a requirement of, the water main between 8th ST S and 6th ST S.*

Q7: Plan sheets 13 and 17 contain Construction Note 2 but no locations are shown on the plan sheets. Is Note 2 in reference to the details shown on Sheet 19 (which should be covered under Construction Note 1)? If so, please confirm. If note 2 is not in reference to the details shown on plan sheet 19, please provide revised drawings showing the planned item locations or confirm it is not used on those sheets.
A7: *Water Construction Note 2 on Sheet 13 and Sheet 17 shall be revised to read "NOT USED ON THIS SHEET."*

Q8: Plan sheet 20 contains Construction Notes 4 and 7 but no locations for either item is shown on the plan sheet. Please provide a revised drawing showing item locations or confirm they are not used on the sheet.
A8: *Storm Drainage Construction Note 4 on Sheet 20 shall be revised to read "NOT USED ON THIS SHEET." Storm Drainage Construction Note 7 on Sheets 20 through 23 shall be revised to read "INSTALL ETHAFOAM PAD BETWEEN UTILITIES WHERE UTILITY CROSSINGS ARE FOUR (4) INCHES OR LESS."*

Q9: Plan sheet 22 contains Construction Note 4 but no location is shown on the plan sheet. Please provide a revised drawing showing the item's location or confirm it is not used on the sheet.
A9: *Storm Drainage Construction Note 4 on Sheet 22 shall be revised to read "NOT USED ON THIS SHEET."*

Q10: On plan sheets 15 and 16, existing storm pipe is shown to be in direct conflict with the new watermain at the following locations:

Q11: between existing COK #8425 and new CB #8 at Sta 20+12,

Q12: between existing COK #8476 and new CB#11 at Sta 20+79,

Q13: between Sta 20+79 and Sta 21+39, and

Q14: between Sta 23+61 and Sta 24+17

Q15: The pipe crossings at Sta 20+12 and Sta 20+79 have no notes for pipe removal or CDF abandonment. The storm pipe runs between Sta 20+79 to Sta 21+39 and between Sta 23+61 to Sta 24+17 are noted to be abandoned and CDF backfilled. These pipe sections seem to be in direct conflict with the new watermain and will need to be removed to make room. Pipe removal is listed in the special provisions section 2-02.4 but has no pay item number in the schedule of values (SOV).

Please clarify under which bid item pipe removal is to be paid.

A15: *Answer to Questions 10 through 15: The contractor shall demolish, remove, and dispose of existing storm drain pipe as necessary to install the new watermain. Existing storm drain pipe removal shall be paid for under Bid Item No. A-27, Ductile Iron Pipe for 12 in. Diam, and Bid Item No. A-28, Ductile Iron Pipe for Watermain 16-in. Diam.*

Q16: The IE of the western pipe out of CB #8 is noted to be at 204.81 (top of pipe is calculated to be at 206.22) in the storm cross section on sheet 21. The elevation of the top of the same storm pipe is shown in the water cross section on Sheet 15 to be at approximately 205.00. In the same cross section, the bottom of the watermain pipe scales to be at just lower than 207.00. This could mean separation between the two pipes is 0.88' (10.5"). Please provide the IE of the water pipe at Sta 20+12, to confirm clearance and advise if ETHA foam will be needed between the storm pipe and watermain.

A16: *The elevation of the bottom of the 16-inch watermain pipe (i.e., the bottom of the outside of the pipe) is approximately 206.80. ETHA foam is expected to be used where utility crossings are four (4) inches or less.*

Q17: Construction Note 12 on Sheet 20 says to remove and dispose of AC pipe. The length of pipe shown on Sheet 20 is approximately 120 LF between CB#1 and CB#2. The SOVs in the special provisions lists 220 LF of pipe. Pothole #6 on sheet 9 notes AC pipe but there is no note for removal in the water or storm plan sheets. Please provide removal limits for the AC pipe.

A17: *The quantity for removing asbestos concrete pipe (Bid Item No. B-2) assumes that AC pipe removal may be necessary beyond CB #1 and CB #2, and at other locations on the project where AC pipe removal may be necessary to build the water main or storm drain.*

Q18: How is the cut and cap of the existing storm pipe at Sta 25+50, as shown in the cross section on plan sheet 16, to be measured and paid?

A18: *The cut and cap at STA 25+50 (shown on Sheet 16) shall be paid under Bid Item No. B-8, Controlled Density Fill.*

Q19: I quoted the fittings for connect to existing restrained joint per Note 18 on Sheet 3. Then I looked at Note 2 on the plans (General Notes) and thought, do all fittings/valves need to be restrained or just the connect to existing?

A19: Responses to Question 19 are the following:

i. *Water-Plan Note #4, Sheet 3: Concrete blocking for water mains shall be installed at all vertical and horizontal bends and fittings.*
ii. *Water-Plan Note #18, Sheet 3: Mega-Lugs shall be required on all fittings and valves for tie-ins or buildouts for tie-ins. Concrete blocking is also required in addition to Mega-Lugs.*
iii. *General Note #4 on Sheets 13 through 18: Ductile -iron fittings and sleeve-type couplings for ductile-iron pipe shall be restrained. See Water-Plan Note #18 on Sheet 3 for additional information.*
iv. *Water Connection Note #7: Ductile-iron fittings and sleeve-type couplings for ductile-iron pipe shall be restrained, EBBA Iron 1100 Mega-Lug, or equal. See Water-Plan Note 18 on Sheet 3 for additional requirements.*
v. *Water Plan and Profile Sheets 13 through 18: Fittings and thrust block symbols are shown on the drawings.*
vi. *Water Connection Details Sheet 19: Fittings and thrust block symbols are shown on the drawings.*
vii. *City Detail CK-W.02 on Sheet 29 provides thrust block size requirements.*

viii. City Detail CK-W.14 on Sheet 30 provides shackle rod restraint requirements and calls for thrust block at fire hydrant assemblies.
ix. WSDOT Spec 7-09.3(21): Concrete thrust blocking, as shown on the plans, shall be placed at bends, tees, dead ends, and crosses.

Summary of Changes to the Bid Tab:

1) Change to "units" for item A-31
2) Change to "units" for item A-45
3) Addition of Bid Tab Item A-58 for Asphalt Price Adjustment by Calculation; addition of payment specifications under Special Provisions Section 5-04

Attachments:

1) Revised Bid Tab
2) Special Provision to 5-04 for measure and payment of Asphalt Price Adjustment
3) Updated PSE design for gas main relocations

Sincerely,

Anne Reese, MPM
Senior Project Manager

Rod Steitzer, P.E.
Capital Projects Manager

Attachment 1
Revised Bid Tab

CITY OF KIRKLAND
BID SCHEDULE

5th/8th Watermain Replacement
Job No.: 09-22-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink. Unit prices, all extensions and the Schedule A subtotal **will not** include sales tax.

SCHEDULE A – Water Main Replacement

Item No.	Item Description	Spec Reference	Est. Qty.	Unit	Unit Price	Amount
A-1	Minor Change	1-04 (SP)	1	FA	$ 20,000	$ 20,000
A-2	Surveying	1-05	1	LS	$	$
A-3	Record Drawings (Min. Bid $2,000)	1-05 (SP)	1	LS	$	$
A-4	SPCC Plan	1-07	1	LS	$	$
A-5	Mobilization	1-09	1	LS	$	$
A-6	Project Temporary Traffic Control (Min. Bid $75,000)	1-10 (SP)	1	LS	$	$
A-7	Removing Cement Conc. Curb	2-02 (SP)	32	LF	$	$
A-8	Removing Cement Conc. Curb and Gutter	2-02 (SP)	276	LF	$	$
A-9	Removing Cement Conc. Sidewalk	2-02 (SP)	100	SY	$	$
A-10	Final Saw Cutting	2-02 (SP)	3,320	LF	$	$
A-11	Removing Hydrant Assembly	2-02 (SP)	3	EA	$	$
A-12	Controlled Density Fill	2-09 (SP)	170	LF	$	$
A-13	Crushed Surfacing Base Course	4-04	660	TON	$	$
A-14	Crushed Surfacing Top Course (For Trench Backfill)	4-04	290	TON	$	$
A-15	Planing Bituminous Pavement	5-04	2,600	SY	$	$
A-16	HMA Cl. 1/2 in. PG 58h-22	5-04 (SP)	1,300	TON	$	$
A-17	Remove And Replace HMA Speed Cushion	5-04 (SP)	2	EA	$	$
A-18	Potholing	7-04 (SP)	5	EA	$	$
A-19	Solid Wall PVC Storm Sewer Pipe 12 in. Diam.	7-04	280	LF	$	$
A-20	Catch Basin Type 1	7-05	3	EA	$	$

Item No.	Item Description	Spec Reference	Est. Qty.	Unit	Unit Price	Amount
A-21	Catch Basin Type 2-48 in. Diam.	7-05	2	EA	$	$
A-22	Connection To Drainage Structure	7-05	3	EA	$	$
A-23	Shoring or Extra Excavation Class B	7-08	2,100	SF	$	$
A-24	Comb. Air Release/Air Vacuum Valve Assembly 2 in.	7-09	2	EA	$	$
A-25	Ductile Iron Pipe For Water Main 6 in. Diam.	7-09	110	LF	$	$
A-26	Ductile Iron Pipe For Water Main 8 in. Diam.	7-09	40	LF	$	$
A-27	Ductile Iron Pipe For Water Main 12 in. Diam.	7-09	640	LF	$	$
A-28	Ductile Iron Pipe For Water Main 16 in. Diam.	7-09	1,550	LF	$	$
A-29	Additional Ductile Iron Fittings	7-09 (SP)	5,000	LB	$	$
A-30	Connection To Existing Main	7-09 (SP)	5	EA	$	$
A-31	Optional Temporary Water Main Connection	7-09 (SP)	1	EA	$	$
A-32	Removal and Replacement Of Unsuitable Material	7-09	200	CY	$	$
A-33	Gate Valve 6 in.	7-12	1	EA	$	$
A-34	Gate Valve 8 in.	7-12	2	EA	$	$
A-35	Gate Valve 12 in.	7-12	3	EA	$	$
A-36	Gate Valve 16 in.	7-12	6	EA	$	$
A-37	Hydrant Assembly	7-14	3	EA	$	$
A-38	Service Connection Up To 1 in. Diam.	7-15 (SP)	21	EA	$	$
A-39	Service Connection 2 in. Diam.	7-15 (SP)	1	EA	$	$
A-40	Ductile Iron Sewer Pipe 8 in. Diam.	7-17	20	LF	$	$
A-41	Inlet Protection	8-01	32	EA	$	$
A-42	Wattle	8-01	660	LF	$	$
A-43	Silt Fence	8-01	1,690	LF	$	$
A-44	High Visibility Fence	8-01	1,400	LF	$	$

Item No.	Item Description	Spec Reference	Est. Qty.	Unit	Unit Price	Amount
A-45	Erosion/Water Pollution Control	8-01	1	LS	$	$
A-46	Landscape Restoration	8-02 (SP)	1	LS	$	$
A-47	Cement Conc. Traffic Curb and Gutter	8-04	280	LF	$	$
A-48	Cement Conc. Traffic Curb	8-04	32	LF	$	$
A-49	Cement Conc. Pedestrian Curb	8-04	35	LF	$	$
A-50	Monument Case and Cover	8-13	1	EA	$	$
A-51	Cement Conc. Sidewalk	8-14	50	SY	$	$
A-52	Cement Conc. Curb Ramp Type Parallel	8-14	3	EA	$	$
A-53	Cement Conc. Driveway Entrance Type CK-R.21	8-14	22	SY	$	$
A-54	Paint Line	8-22	2,500	LF	$	$
A-55	Plastic Crosswalk Line	8-22	300	SF	$	$
A-56	Painted Stop Line	8-22	13	LF	$	$
A-57	Plastic Speed Cushion Symbol	8-22	5	EA	$	$
A-58	Asphalt Cost Bid Adjustment	5-04	1	CALC	$15,000	$15,000

SCHEDULE A SUBTOTAL BID PRICE (in figures): $_____

SALES TAX (10.2%) (in figures): $_____

SCHEDULE A TOTAL BID PRICE (in figures): $_____

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CITY OF KIRKLAND
BID SCHEDULE

5th/8th Watermain Replacement
Job No.: 09-22-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink. Unit prices, all extensions and the Schedule B total **must** include sales tax.

SCHEDULE B – Storm Drain Replacement

Item No.	Item Description	Spec Reference	Est. Qty.	Unit	Unit Price	Amount
B-1	Minor Change	1-04 (SP)	1	FA	$ 10,000	$ 10,000
B-2	Removing Asbestos Concrete Pipe	2-02 (SP)	220	LF	$	$
B-3	Removing Drainage Structure	2-02 (SP)	16	EA	$	$
B-4	Removing Cement Conc. Curb	2-02 (SP)	110	LF	$	$
B-5	Removing Cement Conc. Curb and Gutter	2-02 (SP)	75	LF	$	$
B-6	Removing Cement Conc. Sidewalk	2-02 (SP)	42	SY	$	$
B-7	Final Saw Cutting	2-02 (SP)	390	LF	$	$
B-8	Controlled Density Fill	2-09 (SP)	755	LF	$	$
B-9	Potholing	7-04 (SP)	5	EA	$	$
B-10	Crushed Surfacing Base Course	4-04	130	TON	$	$
B-11	Crushed Surfacing Top Course (For Trench Backfill)	4-04	770	TON	$	$
B-12	HMA Cl. 1/2 in. PG 58h-22	5-04 (SP)	170	TON	$	$
B-13	Solid Wall PVC Storm Sewer Pipe 12 in. Diam.	7-04	840	LF	$	$
B-14	Catch Basin Type 1	7-05	5	EA	$	$
B-15	Catch Basin Type 2-48 in. Diam.	7-05	7	EA	$	$
B-16	Connection To Drainage Structure	7-05	1	EA	$	$
B-17	Shoring or Extra Excavation Class B	7-08	5,400	SF	$	$
B-18	Removal and Replacement Of Unsuitable Material	7-09	130	CY	$	$
B-19	Cement Conc. Traffic Curb and Gutter	8-04	80	LF	$	$
B-20	Cement Conc. Traffic Curb	8-04	87	LF	$	$

Item No.	Item Description	Spec Reference	Est. Qty.	Unit	Unit Price	Amount
B-21	Cement Conc. Pedestrian Curb	8-04	24	LF	$	$
B-22	Cement Conc. Sidewalk	8-14	25	SY	$	$
B-23	Cement Conc. Curb Ramp Type Parallel	8-14	1	EA	$	$

SCHEDULE B TOTAL BID PRICE (in figures): $_____

SCHEDULE A AND SCHEDULE B TOTAL BID PRICE (in figures):

$_____

BID DEPOSIT

Herewith find deposit in the form of a cashier's check or certified check in the amount of $_____which amount is not less than five percent (5%) of the total bid.

SIGN HERE_____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held and firmly bound unto the City of Kirkland, as Obligee, in the penal sum of _____ _____ dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for

_____ _____
Project Name Job Number

according to the terms of the proposal or bid made by the Principal therefor, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for faithful performance thereof, with Surety or Sureties approved by the Obligee; or if the Principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS _____ DAY OF _____, 20_____.

PRINCIPAL: SURETY:

Note: If a Bid Bond is provided, it must be accompanied by a power of attorney which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this Bid Bond.

CITY OF KIRKLAND
NONCOLLUSION AFFIDAVIT

5th Ave S – 8th St S Water Main Project
CIP NO. WAC1340000
JOB NO. 09-22-PW

STATE OF WASHINGTON)
) SS
COUNTY OF KING)

The undersigned, being duly sworn, on oath deposes and says that the person(s), firm, association, partnership or corporation herein named has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

_____ _____
Firm Name Authorized Signature

_____
Type Name

_____
Title

Sworn to before me, this _____ day of _____, 20_____.

_____
Notary Public in and for the State of Washington

Residing at _____

My Commission Expires _____

NOTICE TO ALL BIDDERS

To report bid rigging activities call: 1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., ET. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

CITY OF KIRKLAND
STATEMENT OF BIDDER'S QUALIFICATIONS

Contractor Name: _____ Contact: _____

Business Address: _____

Business phone: _____ Fax: _____

Number of years the Contractor has been engaged in the construction business under the present firm name: _____

Describe the general character of work performed by your company: _____

_____

List five projects of a similar nature which Contractor has completed within the last 10 years. Include contract amount and contact information for references:

Project Name	Amount	Owner/Agency	Contact	Phone	Year Completed

List major equipment anticipated to be used on this project; indicate whether Contractor-owned

or to be leased from others: _____

_____

_____

_____

Bank reference(s): _____

Washington State Contractor Registration No.: _____

Uniform Business Identification No.: _____

I certify that other contracts now in progress or hereafter obtained will not interfere with timely performance of the City of Kirkland project should I become the successful bidder.

Authorized Signature: _____

Print Name: _____ Title: _____

CITY OF KIRKLAND
SUBCONTRACTOR IDENTIFICATION FOR CONTRACTS ESTIMATED TO BE IN EXCESS OF ONE MILLION DOLLARS ($1,000,000.00)

RCW 39.30.060 requires the following:

> "Every invitation to bid on a prime contract that is **expected** to cost one million dollars or more for the construction, alteration, or repair of any public building or public work of the state or a state agency or municipality as defined under RCW 39.04.010 … shall require each prime contract bidder to submit as part of the bid, or within one hour after the published bid submittal time *[see note below]*, the names of the subcontractors with whom the bidder, if awarded the contract, will subcontract for performance of the work of: HVAC (heating, ventilation, and air conditioning); plumbing as described in chapter 18.106 RCW; and electrical as described in chapter 19.28 RCW, or to name itself for the work. The prime contract bidder shall not list more than one subcontractor for each category of work identified, unless subcontractors vary with bid alternates, in which case the prime contract bidder must indicate which subcontractor will be used for which alternate. Failure of the prime contract bidder to submit as part of the bid the names of such subcontractors or to name itself to perform such work or the naming of two or more subcontractors to perform the same work shall render the prime contract bidder's bid non-responsive and, therefore, void."

NOTE: The City of Kirkland has elected <u>not</u> to allow bidders to submit the information required by RCW 39.30.060 after the published bid submittal time. A proposal will be considered irregular and will be rejected if the bidder does not provide the above list as part of its proposal when submitting its bid.

Each bidder shall submit a list of:

1. HVAC, plumbing, and electrical subcontractors; and

2. The specific items of work those subcontractors will perform on the contract; and

3. The specific items of work that will be performed by the bidder on the contract.

CITY OF KIRKLAND
SUBCONTRACTOR IDENTIFICATION LIST

*REQUIRED IF ESTIMATE AMOUNT EXCEEDS $1,000,000 (*Reference RCW 39.30.060 RCW*)

Proposed Subcontractors and items of work to be performed:

Subcontractor Name: _____
Item Numbers: _____

Subcontractor Name: _____
Item Numbers: _____

Subcontractor Name: _____
Item Numbers: _____

Subcontractor Name: _____
Item Numbers: _____

- make additional pages if necessary -

Work to be performed by Prime Contractor:

Item Numbers: _____

CITY OF KIRKLAND
BIDDER'S CHECKLIST

1. Have you reviewed the Bidder Responsibility and Subcontractor Responsibility Criteria?
2. Have you enclosed a bid bond or certified check with your bid? (Must be at least 5% of the total amount bid)
3. Have you entered a bid amount for all items and all schedules?
4. Do the written amounts of the proposal agree with the amounts shown in the figures?
5. Have you acknowledged receipt of addenda?
6. Has the proposal been properly completed and signed?
7. Have you completed the Statement of Bidder's Qualifications?
8. Have you completed the City of Kirkland Non-collusion Affidavit?
9. Have you completed the Subcontractor Identification List? (This is to be completed for HVAC, plumbing, and electrical subcontractors if the estimate amount exceeds $1,000,000.)
10. Bid proposal to be submitted in a sealed envelope marked "Bid Enclosed" for:

Attachment 2
Special Provision to 5-04 for Measure and Payment of Asphalt Price Adjustment

(******)
Asphalt Cost Price Adjustment

The Contracting Agency will make an Asphalt Cost Price Adjustment, either a credit or a payment, for qualifying changes in the reference cost of asphalt binder. The adjustment will be applied to partial payments made according to Section 1-09.9 for the following bid items when they are included in the proposal:

"HMA Cl. ___ PG ___"

The adjustment is not a guarantee of full compensation for changes in the cost of asphalt binder. The Contracting Agency does not guarantee that asphalt binder will be available at the reference cost.

The Contracting Agency will establish the asphalt binder reference cost twice each month and post the information on the Agency website at:

http://www.wsdot.wa.gov/Business/Construction/EscalationClauses.htm

The reference cost will be determined using posted prices furnished by Poten & Partners, Inc. If the selected price source ceases to be available for any reason, then the Contracting Agency will select a substitute price source to establish the reference cost.

The base cost established for this contract is the reference cost posted on the Agency website for the period immediately preceding the bid opening date.

Adjustments will be based on the most current reference cost for Western Washington or Eastern Washington as posted on the Agency website, depending on where the work is performed. For work completed after all authorized working days are used, the adjustment will be based on the posted reference cost during which contract time was exhausted. The adjustment will be calculated as follows:

No adjustment will be made if the reference cost is within 5% of the base cost.

If the reference cost is greater than or equal to 105% of the base cost, then

Adjustment = (Current Reference Cost – (1.05 x Base Cost)) x (Q x 0.056).

If the reference cost is less than or equal to 95% of the base cost, then

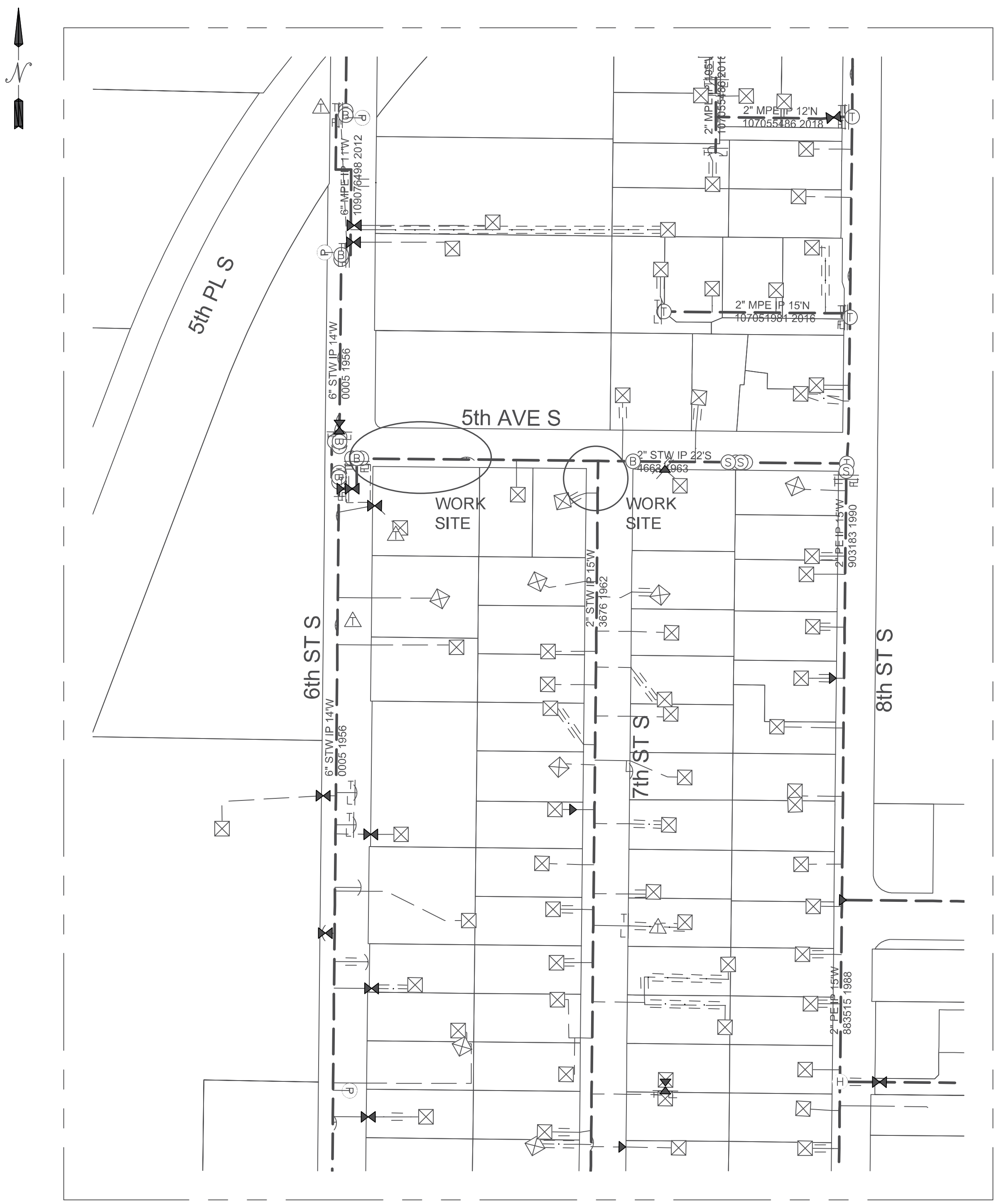
Adjustment = (Current Reference Cost – (0.95 x Base Cost)) x (Q x 0.056).

Where Q = total tons of all classes of HMA paid in the current month's progress payment.

"Asphalt Cost Price Adjustment", by calculation.

"Asphalt Cost Price Adjustment" will be calculated and paid for as described in this section. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount in the proposal to become a part of the total bid by the Contractor.

Attachment 3 - Updated PSE Design for Gas Main Relocations



GAS SYSTEM PLAN
SCALE: 1" = 100'-0"

STANDARD IP & LP GAS REPLACEMENT CONSTRUCTION NOTES

1. NOTIFY GAS CUSTOMERS, OR DISTRIBUTE FLYER #1443 A MINIMUM OF TWO WORKING DAYS PRIOR TO A PLANNED OUTAGE.
2. INSTALL ONE POUND ANODE FOR EVERY 1000' OF LOCATING WIRE. INSTALL ANODE AND TEST LEAD WIRES PER PSE GAS OPERATING STANDARD 2525.2300.
3. MAINTAIN CATHODIC PROTECTION FOR STEEL MAINS BY THE USE OF CONTINUITY BONDS OR OTHER MEANS DETERMINED BY THE PSE CORROSION ENGINEER PER PSE GAS OPERATING STANDARD 2600.1300.
4. INSTALL ANODES AND TEST LEAD WIRES AS REQUIRED PER PSE GAS FIELD PROCEDURES 4515.1000 AND 4515.1020 AND PSE GAS OPERATING STANDARD 2600.1200. TEST LEAD WIRES ARE REQUIRED ON ALL TRANSITION FITTINGS.
5. INSTALL CURB VALVE AT PROPERTY LINE OR 5/8" PE WHIP AT MAIN (AS REQUIRED) ON NEW AND EXISTING SERVICES PER PSE GAS OPERATING STANDARD 2550.1600.
6. REFER TO PSE GAS OPERATING STANDARD 2525.1700 FOR MAIN AND SERVICE COVER REQUIREMENTS.
7. MAINS AND SERVICES SHALL BE TESTED AND PURGED PER PSE GAS OPERATING STANDARDS 2525.3300 AND 2525.3400 AND PSE GAS FIELD PROCEDURE 4700.1500.
8. PROJECT MANAGER TO MAKE AN ACTIVE SERVICE RUN IMMEDIATELY PRIOR TO STARTING CONSTRUCTION.
9. INSTALL REPLACEMENT MAINS PER PSE GAS OPERATING STANDARD 2525.2100.
10. PLUG ENDS OF DEACTIVATED OR INSERTED MAINS AND SERVICES IN ACCORDANCE WITH PSE GAS OPERATING STANDARDS 2525.2100 AND 2525.3600.
11. REMOVE OR RENDER INOPERABLE DEACTIVATED VALVES ON CASING WHERE MPE PIPE IS INSERTED.
12. INSIDE METER SETS SHALL BE MOVED OUTSIDE WHENEVER POSSIBLE OR SET REGULATORS AND VENTS OUTSIDE PER PSE GAS OPERATING STANDARDS 2575.2300 AND 2550.1700.
13. REPLACE EXISTING ACTIVE SERVICES PER PSE GAS OPERATING STANDARDS 2525.2100 AND 2575.2300.
14. REPLACE ALL "NO RECORD" SERVICES AND 1-1/8" PE SERVICES INSTALLED PRIOR TO 1985.
15. ACTIVE SERVICES TO BE REPLACED DENOTED BY: ###
16. MAINS AND SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH 2525.1200.
17. PIPE SQUEEZING SHALL BE DONE IN ACCORDANCE WITH GOS 2525.1200 AND GAS FIELD PROCEDURES 4700.1300 AND 4700.1310.
18. WHEN INSTALLING, DEACTIVATING, REPAIRING, OR OTHERWISE MODIFYING A PIPELINE THAT IS LOCATED WITHIN 200 FEET OF ANY ACTIVE REGULATING STATION, PRESSURE RELIEF AND LIMITING DEVICE, OR SINGLE SERVICE FARM TAP WHERE GAS SYSTEM ENGINEERING REVIEW AND APPROVAL IS REQUIRED PER GAS OPERATING STANDARDS. SEE REVIEW DOCUMENTS, PROVIDED BY ENGINEERING.
19. FIELD TO VERIFY THAT ALL PROPER SERVICE ACTIONS (FOLLOWING THE KEY TO SERVICE ACTION LEGEND) HAVE BEEN ACCOUNTED FOR PER THE "SERVICE CHECKLIST". IF A RISER IS FOUND IN THE FIELD AND WASN'T ACCOUNTED FOR, FIELD PERSONNEL SHALL CONFIRM WHETHER THE RISER IS AN ABANDONED OR IDLE RISER:
    - 19.1 IF IT IS AN ABANDONED RISER, CONTACT THE POINT DESK TO REQUEST GFR TO REMOVE IT.
    - 19.2 IF IT IS AN IDLE RISER, REPORT THE RISER TO THE PROJECT MANAGER SO THAT THE PROJECT MANAGER MAY CONFIRM WITH THE CUSTOMER WHETHER THEY WOULD LIKE TO KEEP THE SERVICE AND RISER. THE PROJECT MANAGER MAY INSTRUCT TO TEST AND TIE THE SERVICE IF THE CUSTOMER WANTS GAS OR DOESN'T PROVIDE PSE A RESPONSE IN A TIMELY MANNER.

STANDARD GAS CONSTRUCTION NOTES:

1. FIELD LOCATE ALL UNDERGROUND UTILITIES. EXCAVATOR TO CALL "ONE-CALL" TWO WORKING DAYS PRIOR TO CONSTRUCTION, IN WESTERN WASHINGTON CALL: 1-800-424-5555. OR CALL NATIONWIDE: 811
2. NOTIFY APPROPRIATE PERMITTING AGENCY PRIOR TO JOB START (SEE PERMIT REQUIREMENTS).
3. ALL CONSTRUCTION IS TO CONFORM TO PSE GAS OPERATING STANDARDS AND GAS FIELD PROCEDURES.
4. EROSION AND SEDIMENT CONTROL SHALL BE PER PSE STANDARD PRACTICE 0150.3200 TECHNIQUES FOR TEMPORARY EROSION AND SEDIMENT CONTROL AND ANY ADDITIONAL LOCAL JURISDICTION REQUIREMENTS.
5. NOTIFY PROPERTY OWNERS ADJACENT TO PROPOSED CONSTRUCTION ACTIVITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION. USE iSi TO DISTRIBUTE FLYERS IF JOB IS LARGE, OTHERWISE HAND DELIVER FLYERS BE SURE TO INCLUDE THE LIST OF FREQUENTLY ASKED QUESTIONS AND INFORMATION ABOUT THE OPPORTUNITY TO PURCHASE AN EXCESS FLOW VALVE WHEN THEIR SERVICE IS INSTALLED OR REPLACED PER GAS OPERATING STANDARD 2550.1600. ALLOW ADEQUATE TIME FOR CUSTOMER DECISION AND RESPONSE.
6. ANY CHANGE IN ROUTE, PIPE SIZE/TYPE, TIE-IN METHOD OR ADDITIONAL MAIN FOOTAGE MUST BE APPROVED BY THE APPROPRIATE PSE ENGINEER OR PSE REPRESENTATIVE.
7. COMPLETE "PIPE CONDITION REPORT" ON ALL METALLIC PSE FACILITIES. CHECK BOX ON REPORT FOR WIRE BOX (TEST LEAD) INSTALLATION.
8. PIPELINE MARKERS AND WARNING SIGNS SHALL BE INSTALLED AND RECORDED BY THE CONTRACTOR PER PSE GAS OPERATING STANDARD 2525.2500.
9. INSTALL MAIN VALVES OUT OF TRAFFIC WHERE POSSIBLE. VALVE MARKERS SHALL BE INSTALLED AND RECORDED BY THE CONTRACTOR PER PSE GAS OPERATING STANDARD 2525.2600 FOR ALL HP VALVES IF THE LOCATION IS NOT READILY ACCESSIBLE, AND FOR ALL VALVES WHERE PERSISTENT SNOWFALL MAY OBSCURE THE VALVE BOX.
10. TO PREVENT ACCIDENTAL OVERPRESSURE OF ADJOINING SYSTEMS, NO TWO MAINS SHALL BE CONNECTED EXCEPT AS SHOWN ON THIS DESIGN UNLESS APPROVED BY APPROPRIATE PSE ENGINEER OR PSE REPRESENTATIVE.
11. SYSTEM MAOP DENOTED BY: SYSTEM MAOP = 45 PSIG
12. GAUGE AND MONITOR USE OF ALL STOPPERS TO ENSURE ADEQUATE FEED.
13. RESTORE ALL DRIVEWAYS SUBJECT TO OPEN CUT TO ORIGINAL OR BETTER CONDITION.
14. PURGE POINTS TO BE INSTALLED PER PSE GAS OPERATING STANDARDS 2525.3400.
15. MAINS AND SERVICES SHALL BE TESTED AND PURGED PER PSE GAS OPERATING STANDARDS 2525.3300 AND 2525.3400.
16. IF METALLIC PIPE IS INVOLVED, COORDINATE INSTALLATION WITH CP TECH. MIKE COWIN, PHONE 206-571-8517.
17. NOTE ALL ACTUAL FOOTAGE, LOCATION AND MATERIAL CHANGES ON THE AS-BUILT IN RED. (') DENOTES FOOTAGE BETWEEN FITTINGS.
18. EXCESS FLOW VALVE TO BE INSTALLED ON ALL NEW RESIDENTIAL SERVICES PER GOS 2500.2200. (RECORD ALL INFORMATION ON D-4 CARD)

HOLE HOG TABLE

CALLOUT		LOCATION	DEPTH	LENGTH
BP1	START			
BP2	END			
BP3	START			
BP4	END			
BP5	START			
BP6	END			
BP7	START			
BP8	END			
BP9	START			
BP10	END			

SAP BATCH YEAR & FOOTAGE

SIZE OF RETIRED MAIN	MATERIAL RETIRED	ORIGINAL JOB	ORIGINAL YEAR	PROPOSED LENGTH OF RETIREMENT	ACTUAL LENGTH OF RETIREMENT
2"	STW	3676	1962	186'	

GASSED UP PIPELINE

PIPE SEGMENT	FOREMAN'S NAME	DATE

Verify Testing Requirements, Chart vs Gauge
GOS 2525.3300 sec. 5, Table 5-1 and sec. 5.5

GAS MAIN PRESSURE & TESTING

TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
☐ TESTED BY PSE PRESSURE CONTROL, SEE FORM 1928				
DESIGN PRESS	60	SYS MAOP	45	
2023 02/08				

SR. CONSTRUCTION MANAGER
MIKE NIKOLAS
PH#: (206) 678-7579

FITTER'S CHECKLIST (CHECK BOX TO CONFIRM COMPLETION)

- ☐ Inspected Steel and PE pipe per GOS 2450.1400 and 2450.1500
- ☐ Reviewed and complied with all construction notes.
- ☐ Recorded all required information on the as-built per GOS 2500.1700.
- ☐ Completed post installation inspection per GOS 2525.1200 and 2525.2700.
- ☐ Left the work area in a clean and safe condition.

Foreman's Signature ____________________

Foreman's Name (printed) ____________________

Company: ____________________ Date ____________

4680 06/11

GAS MAIN INSTALLATION/RETIREMENT

Type/Work	Pipe Size	Type	Est Length	Act Lgth	Manufacturer
INSTALL	2"	STW	203'		
RETIRE	2"	STW	186'		

GASSED UP PIPELINE

PIPE SEGMENT	FOREMAN'S NAME	DATE

Verify Testing Requirements, Chart vs Gauge
GOS 2525.3300 sec. 5, Table 5-1 and sec. 5.5

GAS MAIN PRESSURE & TESTING

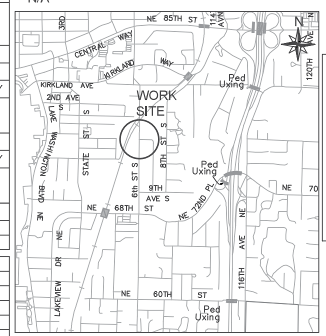
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
☐ TESTED BY PSE PRESSURE CONTROL, SEE FORM 1928				
DESIGN PRESS	60	SYS MAOP	45	
2023 02/18				

PROJECT PHASE		Notification #	Order #
GAS	SAP Superior	11856033	109142730
	Service/Meter		
	Service/Meter		
	Service/Meter		
	Service/Meter		
	Ind. Service		
	Ind. MSA		
	Dis. Reg. / FT		
	HP Svc/MSA		
	Relocate		
	Retirement		108635662

Project Manager Contact Information:
Manager: KIARA SKYE
Cell Phone: 425-213-9205
E-Mail: kiara.skye@pse.com

"Locates Required" Yes ☐ No ☐
"Flagging Required" Yes ☐ No ☐

Vicinity Map
N/A



109142730

Owner / Developer Contact Info
N/A
N/A
N/A
ATTN: N/A N/A office

For contacts below dial 1-888-CALL PSE (225-5773)

CALL 811 AT LEAST 2 BUSINESS DAYS BEFORE YOU DIG

THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

REAL ESTATE/EASEMENT	PERMIT
N/A	KIRKLAND

REV#	DATE	BY	DESCRIPTION
3			
2			
1			

FUNCTION	CONTACT	PHONE NO	DATE
PROJECT MGR	K.SKYE	425-213-9205	
ENGR - GAS			
DRAWN BY	J.MOSS	425-748-6345	4-29-22
CHECKED BY	C.WESTHOFF	425-748-6323	4-29-22
APPROVED BY	K.SKYE	425-213-9205	
CP APPROVAL	M.COWIN	206-571-8517	4-21-22
PC APPROVAL	.	.	.
MAPPING			

COUNTY	Emer Sect	GAS WK CTR
KING	469A	CSPFGPI
1/4 SEC	**OP MAP**	**PLAT MAP**
NE 8-25-5	180,080	182,083

JOINT FACILITIES ARRANGEMENTS

UTILITIES	N/A	N/A	N/A	N/A
CONTACT	N/A	N/A	N/A	N/A
PHONE#	N/A	N/A	N/A	N/A

PUGET SOUND ENERGY

5th & 8th WATER MAIN REPLACEMENT
2" STW IP MAIN RELOCATION
512 5th AVE S, KIRKLAND, WA 98033

DESIGNED BY PSE

SAP Sup Order Nbr 109142730
Drawing Number

SCALE	PAGE
AS NOTED	1 of 4

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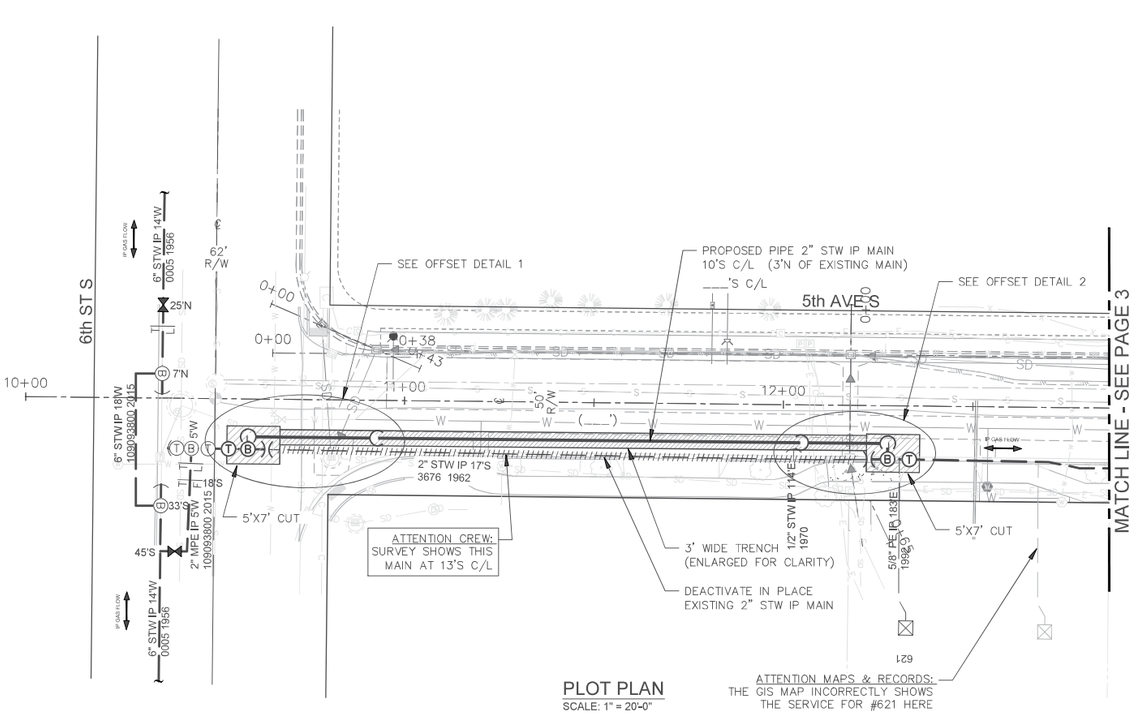
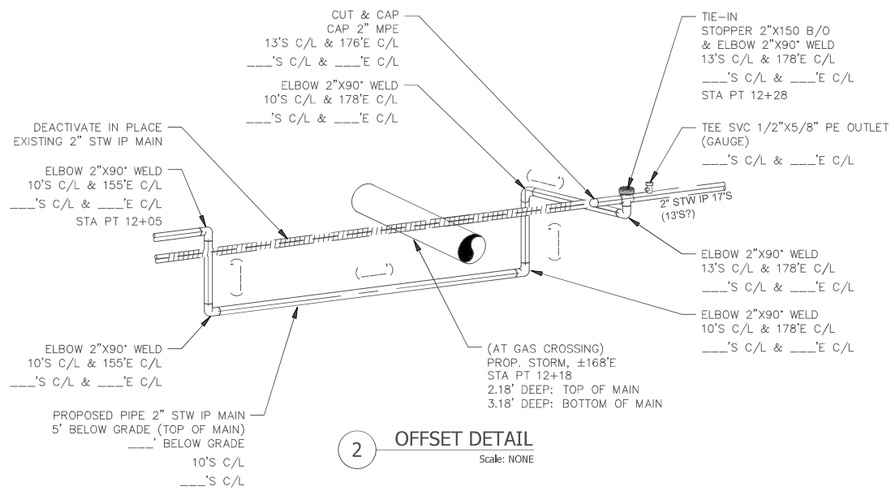
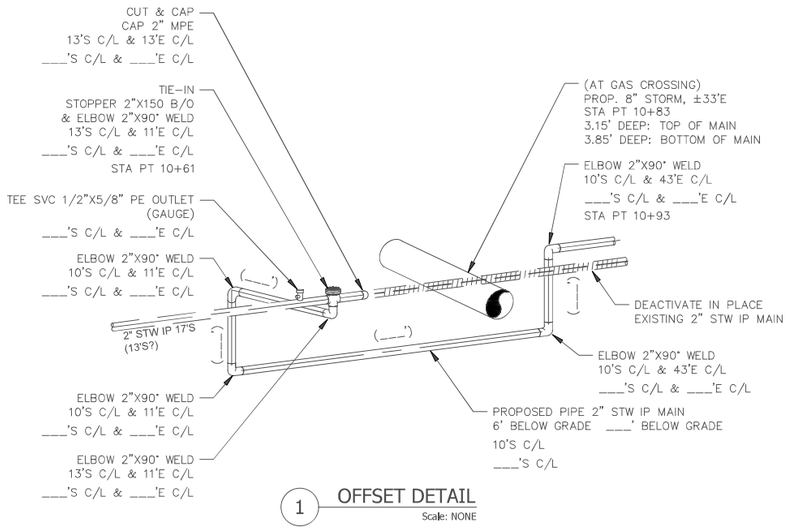


PLOT PLAN
SCALE: 1" = 20'-0"



2 OFFSET DETAIL
Scale: NONE



1 OFFSET DETAIL
Scale: NONE

ALL SURFACE CUTS ARE SHOWN
ENLARGED FOR CLARITY. DO NOT SCALE.

GAUGE TEES TO BE MONITORED
DURING ALL ACTIVITIES WHERE FLOW
OF GAS WILL BE INTERRUPTED

FITTER'S CHECKLIST (CHECK BOX TO CONFIRM COMPLETION)

- ☐ Inspected Steel and PE pipe per GOS 2450,1400 and 2450,1500
- ☐ Reviewed and complied with all construction notes.
- ☐ Recorded all required information on the as-built per GOS 2500,1700.
- ☐ Completed post installation inspection per GOS 2525,1200 and 2525,2700.
- ☐ Left the work area in a clean and safe condition.

Foreman's Signature_____

Foreman's Name (printed) _____

Company: _____ Date _____

4680 06/11

REV#	DATE	BY	DESCRIPTION	REAL ESTATE/EASEMENT N/A		PERMIT KIRKLAND	
				FUNCTION	CONTACT	PHONE NO	DATE
3				PROJECT MGR	K.SKYE	425-213-9205	
2				ENGR - GAS			
1				DRAWN BY	J.MOSS	425-748-6345	4-29-22
				CHECKED BY	C.WESTHOFF	425-748-6323	4-29-22
				APPROVED BY	K.SKYE	425-213-9205	
				CP APPROVAL	M.COWIN	206-571-8517	4-21-22
				PC APPROVAL	.	.	.
				MAPPING			

COUNTY	Emer Sect	GAS WK CTR	
KING	469A	CSPFGPI	
1/4 SEC	OP MAP	PLAT MAP	
NE 8-25-5	180,080	182,083	

JOINT FACILITIES ARRANGEMENTS

UTILITIES	N/A	N/A	N/A	N/A
CONTACT	N/A	N/A	N/A	N/A
PHONE#	N/A	N/A	N/A	N/A

PUGET SOUND ENERGY

5th & 8th WATER MAIN REPLACEMENT
2" STW IP MAIN RELOCATION
512 5th AVE S, KIRKLAND, WA 98033

DESIGNED BY PSE

SAP Sup Order Nbr 109142730
Drawing Number
SCALE 1"=20'
PAGE 2 of 4

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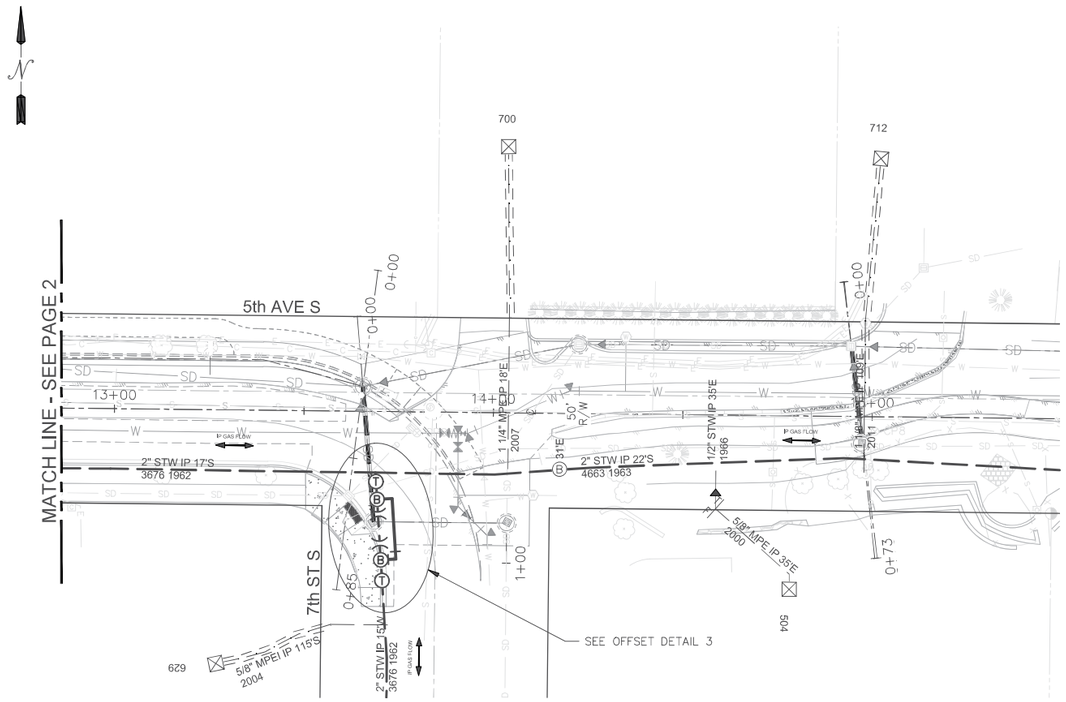
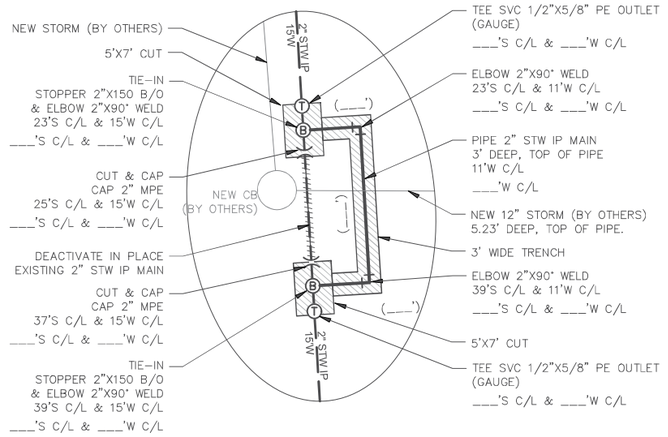


PLOT PLAN
SCALE: 1" = 20'-0"



3 OFFSET DETAIL
Scale: NONE

ALL SURFACE CUTS ARE SHOWN
ENLARGED FOR CLARITY. DO NOT SCALE.

GAUGE TEES TO BE MONITORED
DURING ALL ACTIVITIES WHERE FLOW
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FITTER'S CHECKLIST (CHECK BOX TO CONFIRM COMPLETION)

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- ☐ Left the work area in a clean and safe condition.

Foreman's Signature_____

Foreman's Name (printed) _____

Company: _____ Date _____

4680 06/11

REAL ESTATE/EASEMENT				PERMIT	
N/A				KIRKLAND	
REV#	DATE	BY	DESCRIPTION	FUNCTION	CONTACT	PHONE NO	DATE
3				PROJECT MGR	K.SKYE	425-213-9205	
2				ENGR - GAS			
1				DRAWN BY	J.MOSS	425-748-6345	4-29-22
				CHECKED BY	C.WESTHOFF	425-748-6323	4-29-22
				APPROVED BY	K.SKYE	425-213-9205	
				CP APPROVAL	M.COWIN	206-571-8517	4-21-22
				PC APPROVAL	.	.	.
				MAPPING			

COUNTY	Emer Sect	GAS WK CTR	1/4 SEC	OP MAP	PLAT MAP
KING	469A	CSPFGPI	NE 8-25-5	180,080	182,083

JOINT FACILITIES ARRANGEMENTS				
UTILITIES	N/A	N/A	N/A	N/A
CONTACT	N/A	N/A	N/A	N/A
PHONE#	N/A	N/A	N/A	N/A

PUGET SOUND ENERGY

5th & 8th WATER MAIN REPLACEMENT

2" STW IP MAIN RELOCATION

512 5th AVE S, KIRKLAND, WA 98033

DESIGNED BY PSE

SAP Sup Order Nbr 109142730

Drawing Number

SCALE 1"=20'

PAGE 3 of 4

EROSION/SEDIMENTATION CONTROL – PLAN NOTES

1. The approved Construction Sequence shall be as follows:

   a. Conduct pre–construction meeting.
   b. Flag or fence clearing limits.
   c. Post sign with name and phone number of TESC supervisor.
   d. Install catch basin protection if required.
   e. Grade and install construction entrance(s).
   f. Install perimeter protection (silt fence, brush barrier, etc.).
   g. Construct sediment ponds and traps.
   h. Grade and stabilize construction roads.
   i. Construct surface water controls (interceptor dikes, pipe slope drains, etc.) simultaneously with clearing and grading for project development.
   j. Maintain erosion control measure in accordance with City of Kirkland Standards and manufacturer's recommendations.
   k. Relocate erosion control measures or install new measures so that as site conditions change, the erosion and sediment control is always in accordance with the City TESC minimum requirements.
   l. Cover all areas within the specified time frame with straw, wood fiber mulch, compost, plastic sheeting, crushed rock or equivalent.
   m. Stabilize all areas that reach final grade within 7 days.
   n. Seed or sod any areas to remain unworked for more than 30 days.
   o. Upon completion of the project, all disturbed areas must be stabilized and best management practices removed if appropriate.

2. Approval of this erosion/sedimentation control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).

3. The implementation of this ESC plan and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the Permittee/Contractor until all construction is approved.

4. The boundaries of the clearing limits shown on this plan shall be set by survey and clearly flagged in the field by a clearing control fence prior to construction. During the construction period, no disturbance or removal of any ground cover beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the Permittee/Contractor for the duration of construction.

5. The ESC facilities shown on this plan must be constructed prior to or in conjunction with all clearing and grading activities in such a manner as to ensure that sediment–laden water does not enter the drainage system or violate applicable water standards. Wherever possible, maintain natural vegetation for silt control.

6. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded (e.g., additional sumps, relocation of ditches and silt fences, etc.) as needed for unexpected storm events. Additionally, more ESC facilities may be required to ensure complete siltation control. Therefore, during the course of construction it shall be the obligation and responsibility of the Contractor 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.

7. The ESC facilities shall be inspected by the Permittee/Contractor daily during non–rainfall periods, every hour (daylight) during a rainfall event, and at the end of every rainfall, and maintained as necessary to ensure their continued functioning. In addition, temporary siltation ponds and all temporary siltation controls shall be maintained in a satisfactory condition until such time that clearing and/or construction is completed, permanent drainage facilities are operational, and the potential for erosion has passed. Written records shall be kept documenting the reviews of the ESC facilities.

8. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within 48 hours following a storm event.

9. All denuded soils must be stabilized with an approved TESC method (e.g. seeding, mulching, plastic covering, crushed rock) within the following timelines:

May 1 to September 30 – soils must be stabilized within 7 days of grading.
October 1 to April 30 – soils must be stabilized within 2 days of grading.
Stabilize soils at the end of the workday prior to a weekend, holiday, or predicted rain event.

10. At no time shall more than 1' of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment–laden water into the downstream system.

11. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.

12. Any permanent retention/detention facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity. If the permanent facility is to function ultimately as an infiltration or dispersion system, the facility shall not be used as a temporary settling basin. No underground detention tank, detention vault, or system which backs under or into a pond shall be used as a temporary settling basin.

13. Where seeding for temporary erosion control is required, fast germinating grasses shall be applied at an appropriate rate (example: annual or perennial rye applied at approximately 80 pounds per acre).

14. Where straw mulch is required for temporary erosion control, it shall be applied at a minimum thickness of 2".

15. All erosion/sedimentation control ponds with a dead storage depth exceeding 6" must have a perimeter fence with a minimum height of 3'.

16. All work and materials shall be in accordance with City of Kirkland standards and specifications.

17. The ESC facilities shall be constructed in accordance with the details on the approved plans. Locations may be moved to suit field conditions, subject to approval by the Engineer and the City of Kirkland Inspector.

18. A copy of the approved erosion control plans must be on the job site whenever construction is in progress.

19. All lots adjoining or having any native growth protection easements (NGPE) shall have a 6' high temporary construction fence (chain link with pier blocks) separating the lot (or buildable portions of the lot) from the area restricted by the NGPE and shall be installed prior to any grading or clearing and remain in place until the Planning Department authorizes removal.

20. Clearing limits shall be delineated with a clearing control fence. The clearing control fence shall consist of a 6–ft. high chain link fence adjacent the drip line of trees to be saved, wetland or stream buffers, and sensitive slopes. Clearing control fences along wetland or stream buffers or upslope of sensitive slopes shall be accompanied by an erosion control fence. If approved by the City, a four–foot high orange mesh clearing control fence may be used to delineate clearing limits in all other areas.

21. Off–site streets must be kept clean at all times. If dirt is deposited on the public street system, the street shall be immediately cleaned with power sweeper or other equipment. All vehicles shall leave the site by way of the construction entrance and shall be cleaned of all dirt that would be deposited on the public streets.

22. Any catch basins collecting runoff from the site, whether they are on or off the site, shall have adequate protection from sediment. Catch basins directly downstream of the construction entrance or any other catch basin as determined by the City Inspector shall be protected with a "storm drain protection insert" or equivalent.

23. The washed gravel backfill adjacent to the filter fabric fence shall be replaced and the filter fabric cleaned if it is nonfunctional by excessive silt accumulation as determined by the City of Kirkland. Also, all interceptor swales shall be cleaned if silt accumulation exceeds one–quarter depth.

24. Rock for erosion protection of roadway ditches, where required, must be of sound quarry rock, placed to a depth of 1' and must meet the following specifications: 4"–8" rock/40%–70% passing; 2"–4" rock/30%–40% passing; and 1"–2" rock/10%–20% passing.

25. If any part(s) of the clearing limit boundary or temporary erosion/sedimentation control plan is/are damaged, it shall be repaired immediately.

26. All properties adjacent to the project site shall be protected from sediment deposition and runoff.

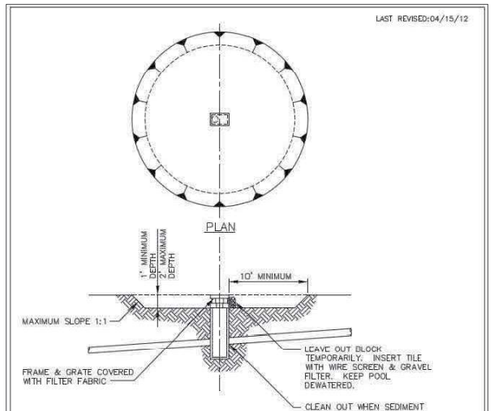
27. Do not flush concrete by–products or trucks near or into the storm drainage system. If exposed aggregate is flushed into the storm system, it could mean re–cleaning the entire downstream storm system, or possibly re–laying the storm line.

28. Prior to the October 1 of each year (the beginning of the wet season), all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. The identified disturbed area shall be seeded within one week after October 1. A site plan depicting the areas to be seeded and the areas to remain uncovered shall be submitted to the Public Works Construction Inspector. The Inspector can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities.

29. If a sediment pond is not proposed, a baker tank or other temporary ground and/or surface water storage tank may be required during construction, depending on weather conditions.

30. Any area to be used for infiltration or pervious pavement (including a 5–foot buffer) must be surrounded by silt fence prior to construction and until final stabilization of the site to prevent soil compaction and siltation by construction activities.

LAST REVISED:04/15/12

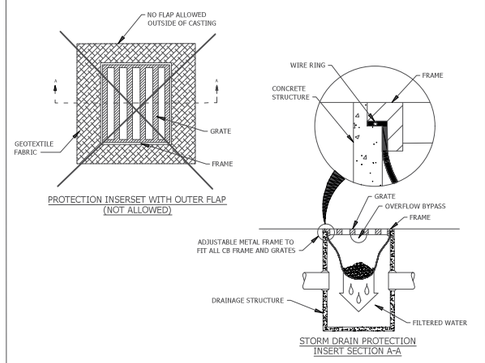


NOTES

1. PROTECT INLETS DURING CONSTRUCTION. KEEP SEDIMENT OUT OF THE STORM DRAINAGE SYSTEM. USE HALF–CIRCLE BEHIND CURB INLETS DURING STREET CONSTRUCTION. MODIFY PROTECTION AS CONSTRUCTION PROGRESSES.
2. CIRCULAR SHAPE IS NOT ESSENTIAL; VARY SHAPE TO FIT DRAINAGE AREA AND TERRAIN. OBSERVE TO CHECK TRAP EFFICENCY AND MODIFY AS NECESSARY TO INSURE SATISFACTORY TRAPPING OF SEDIMENT. CAN BE ADAPTED TO THRU–CURB INLET.
3. ALLOW 2' MINIMUM OVERHANG OR FILTER FABRIC. FILTER FABRIC OVERHANG MUST BE COVERED WITH 1–1/4" CRUSHED ROCK.
4. FILTER FENCE MAY BE REQUIRED AROUND PERIMETER OF BASIN.

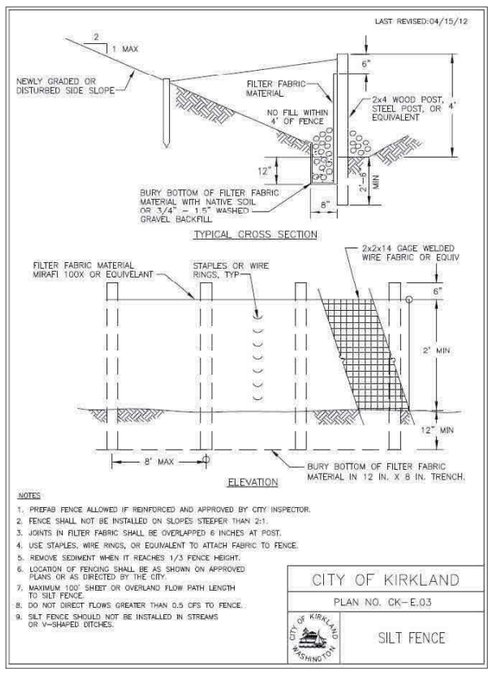
CITY OF KIRKLAND
PLAN NO. CK–E.08
CATCH BASIN/INLET SEDIMENTATION TRAP

LAST REVISED: 01/2020



CITY OF KIRKLAND
PLAN NO. CK– E.11
STORM DRAIN PROTECTION INSERT

LAST REVISED:04/15/12

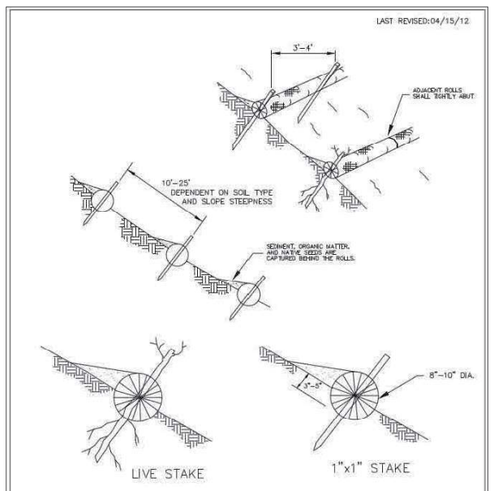


NOTES

1. PREFAB FENCE ALLOWED IF REINFORCED AND APPROVED BY CITY INSPECTOR.
2. FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2:1.
3. JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
4. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO FENCE.
5. REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.
6. LOCATION OF FENCING SHALL BE AS SHOWN ON APPROVED PLANS OR AS DIRECTED BY THE CITY.
7. MAXIMUM 100' SHEET OR OVERLAND FLOW PATH LENGTH TO SILT FENCE.
8. DO NOT DIRECT FLOWS GREATER THAN 0.5 CFS TO FENCE.
9. SILT FENCE SHOULD NOT BE INSTALLED IN STREAMS OR V–SHAPED DITCHES.

CITY OF KIRKLAND
PLAN NO. CK–E.03
SILT FENCE

LAST REVISED:04/15/12



NOTES

1. STRAW ROLES SHALL BE PLACED ALONG SLOPE CONTOURS.
2. STRAW ROLL INSTALLATION REQUIRES TIE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"–5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
3. DRIVE STAKE THROUGH MIDDLE OF WATTLE, LEAVING 2"–3" OF STAKE PORTRUDING ABOVE WATTLE.

NOT TO SCALE

CITY OF KIRKLAND
PLAN NO. CK–E.10
STRAW WATTLES

				REAL ESTATE/EASEMENT		PERMIT	
				N/A		KIRKLAND	
REV#	DATE	BY	DESCRIPTION	FUNCTION	CONTACT	PHONE NO	DATE
3				PROJECT MGR	K.SKYE	425-213-9205	
2				ENGR - GAS			
1				DRAWN BY	J.MOSS	425-748-6345	4-29-22
				CHECKED BY	C.WESTHOFF	425-748-6323	4-29-22
COUNTY: KING	Emer Sect: 469A	GAS WK CTR: CSPFGPI		APPROVED BY	K.SKYE	425-213-9205	
1/4 SEC: NE 8-25-5	QP MAP: 180.080	PLAT MAP: 182.083		CP APPROVAL	M.COWIN	206-571-8517	4-21-22
				PC APPROVAL	.	.	.
				MAPPING			

JOINT FACILITIES ARRANGEMENTS				
UTILITIES	N/A	N/A	N/A	N/A
CONTACT	N/A	N/A	N/A	N/A
PHONE#	N/A	N/A	N/A	N/A

PUGET SOUND ENERGY

5th & 8th WATER MAIN REPLACEMENT

2" STW IP MAIN RELOCATION
512 5th AVE S, KIRKLAND, WA 98033

DESIGNED BY PSE

SAP Sup Order Nbr 109142730
Drawing Number
SCALE: NONE
PAGE: 4 of 4