



King County
 Department of Permitting
 and Environmental Review
 35030 SE Douglas St., Suite 210
 Snoqualmie, WA 98065
www.kingcounty.gov/fire

KING COUNTY FIRE MARSHAL SERVICES
FIRE PERMIT CONDITIONS FOR INSPECTION

KING COUNTY FIRE MARSHAL SERVICES
REVIEW LETTER

PERMIT NUMBER: Fire 17-0335

ATTENTION FIRE PROTECTION CONTRACTOR

YOU MUST READ ALL CONDITIONS IN THIS APPROVED PERMIT PACKAGE AND ON THE APPROVED DRAWING.

AFTER REVIEWING THESE CORRECTIONS AND BEFORE ANY INSPECTIONS ARE REQUESTED YOU MUST SIGN AND PRINT YOUR NAME TO VERIFY THAT THE CONDITIONS HAVE BEEN READ

INSPECTION'S WILL NOT BE SCHEDULED WITHOUT THIS FORM BEING RETURNED TO THE DEPUTY FIRE MARSHAL

Name _____ Print _____

Date: _____

SCAN AND EMAIL THIS FORM BACK TO:

DEPUTY FIRE MARSHAL RIAN CUTHBERT AT rian.cuthbert@kingcounty.gov

DEPUTY FIRE MARSHAL TED ERB AT ted.erb@kingcounty.gov



Department of Permitting
and Environmental Review
35030 SE Douglas St., Ste. 210
Snoqualmie, WA 98065-9266
206-296-6600 TTY Relay: 711

King County **Permit Conditions**

**Applicant: KING COUNTY HOUSING
AUTHORITY
600 ANDOVER PARK WEST
SEATTLE, WA 98188**

**Application Number: FIRP17-0335
Application Date: 08/08/2017**

The Permit Conditions attached to this cover sheet apply to the permit referenced herein. These conditions must be complied with by the applicant and verified by DPER staff or this permit may become null and void.

**Site Address/Location: 235 SW 97TH PL 98106
Parcel Number: 2895801080
Permit Type: Fire/Fire Permit Systems/Hydrant/NA
Title: KC HOUSING AUTHORITY
Description: RESIDENTIAL DOMESTIC AND FIRE SERVICES.**

Valuation: \$0.00

Reviewed By:

2015 General Plan Review: Ted Erb, , ted.erb@kingcounty.gov

2015 HYDR-Mains-UG FDC: Ted Erb, , ted.erb@kingcounty.gov

SITE COPY



Department of Permitting
and Environmental Review
35030 SE Douglas St., Ste. 210
Snoqualmie, WA 98065-9266
206-296-6600 TTY Relay 711

FIRE PERMIT - SYSTEMS & EVENTS

Permit type, Subtype: Fire Permit Systems, Hydrant
Title: WIND ROSE SUBDIVISION FIRE SYSTEM PERMIT
Description: INSTALLATION OF WATERMAIN AND HYDRANT
FOR NEW PLAT (L03P0022, STRV15-0006)

Permit Number: FIRP17-0335
Date Issued: 11/27/2017
Expiration Date: 11/27/2018
Permit Status: Permit Issued

List of Parcels: 0623049296, 2895801080
Site Address: 301 SW ROXBURY ST 98106
Valuation: \$0.00
Applicant Name: KING COUNTY HOUSING AUTHORITY
Applicant Address: 600 ANDOVER PARK WEST SEATTLE,
WA 98188

Comments and Conditions

- 1. Work Subject to Approved Plans and Conditions.** Work Authorized by this permit is subject to the approved plans and corrections shown thereon and the attached conditions of permit approval. Failure to comply with all conditions once construction is begun may necessitate an immediate work stoppage until such time as compliance with the stipulated conditions is attained.
- 2. Posting on the job site.** This permit must be posted on the job site at all times in a visible and readily accessible location.
- 3. Permit Status & Inspections; Scheduling, Est. Arrival Times* & Results.** (*Building only)

Online: aca.accela.com/kingcounty

Inspection cutoff: 3:00 pm for next day inspections. Fire Inspection and land use requests will be confirmed and scheduled by a return phone call. Additional inspection information including IVR/Web info:
<http://www.kingcounty.gov/property/permits/info/inspections.aspx>. Written inspection results left at the job site will be phased out.

IVR: 1-888-546-7728 - Inspection Help: 206-296-6630

- 4. Expiration.** Please note the expiration date on this permit located in the upper right corner. Permits are valid for one year from date of issuance or date of extension. Work must be substantially commenced within two years of permit issuance. Extensions beyond the third year shall only be granted to allow completion of the structure.
- 5. Compliance with State and Federal laws and the Endangered Species Act.** The applicant is responsible for making a diligent inquiry regarding the need for concurrent state or federal permits to engage in the Work requested under this permit, and to obtain the required permits prior to issuance of this permit. It is understood that the granting of this permit shall not be construed as satisfying the requirements of other applicable Federal, State or Local laws or regulations. In addition this permit does not authorize the violation of regulations. In addition, the granting of this permit does not authorize the violation such "take" restrictions would be violated by work done pursuant to this permit, and is precluded by Federal law from undertaking work authorized by this permit if that work would violate the "take" restrictions set forth at 16 U.S.C. 8, 50 C.F.R. §17.21, 50 C.F.R. §223 and 50 C.F.R §224.



King County

Department of Permitting
and Environmental Review

35030 SE Douglas St., Ste. 210
Snoqualmie, WA 98065-9266

206-296-6600 TTY Relay 711

Permit: **FIRP17-0335**

Date Issued: 11/27/2017

Expiration Dat 11/27/2018

Permit Status: Permit Issued

FIRE INSPECTION REPORT CARD

New Construction Fire Inspection 24-Hour Request Line
New Construction Fire Inspection General Information

1-888-546-7728
206-296-6630

APPROVALS: (Followed by 3-digit inspection codes for use with the inspection Request Line)

- | | | | |
|---|--|--|---|
| 1. Placement - Tank (291)
By: _____ | 2. Device Placement (259)
By: _____ | 3. Nozzle/Head Placement (283)
By: _____ | 4. Flow/Trip Test (273)
By: _____ |
| 5. Device/Panel Test (261)
By: _____ | 6. Flush Test (274)
By: _____ | 7. Run Test (191)
By: _____ | 8. Pressure Test (168)
By: _____ |
| 9. Insulation Cover (280)
By: _____ | 10. Rack/Pile Inspection (298)
By: _____ | 11. Emergency Shut Off (067)
By: _____ | 12. Underground (235)
By: _____ |
| 13. Hydrant/Watermain (245)
By: _____ | 14. Other (134)
By: _____ | 15. Final Acceptance (077)
By: _____ | |

Notes:

ALL PERMITS:

- a) Responsibility for the building's compliance with the provisions of the applicable King County Codes and for maintenance of the building rests exclusively with the permit applicants and their agents and the property owners.
- b) King County inspection of the building and real property are spot checks designed to foster and encourage compliance with the applicable codes. Neither the approvals above nor the issuance of a Certificate of Occupancy guarantees or assures compliance with all applicable codes.
- c) The Owner/Applicant's copy of any applicable manufacturer's installation instructions, the approved set of plans, and the permit shall be available at the time of inspection.

Permit Conditions

Fire

2015 General Plan Review

1) **AA02 PLAN REVIEW CONTACT**

Questions requiring the FIRE REVIEW of these plans shall be directed to:

Ted Erb - Deputy Fire Marshal
206-263-1972
ted.erb@kingcounty.gov

2) **AA04 REQUIRED INSPECTIONS**

The following inspections are required:

168 - Hydrostatic Pressure Test.
273 - Flow/Trip Test.
274 - Flush Test
077 - Final Inspection

3) **AA06 ADDITIONAL FEES**

If additional inspections are required to obtain final approval of the FIRE PERMIT or the approved plans are not on site at the time of the inspection, a RE-INSPECTION FEE OF \$202.00 will be issued per inspection to the sprinkler contractor. Payment must be received by the D.P.E.R finance office before any additional inspections will be conducted.

The contractor is required to read and sign the review letter confirmation sheet. This confirmation sheet the contractor has read and reviewed the permit conditions which are attached to the approved plans.

4) **AA08 SAFEGUARD AGAINST ADDITIONAL FEES AND INSPECTIONS**

1) Incorporate any site specific conditions noted on the approved set of plans and attached permit review letter/conditions sheet.

2) Pre-test the system prior to calling for inspection. The contractor must have all required testing paperwork completed and available for the Deputy Fire Marshal at the time of the required inspection.

3) Be sure that necessary power and water supplies are available at the time of the inspection to allow for the flow/trip test.

5) **AB01 GENERAL FIRE CONDITIONS**

CONDITION SHEETS: The listing of permit conditions applied to this permit is requirements for construction installation.

FIELD CHANGES TO APPROVED PLANS: After plans are issued and approved, only minor changes, modifications or field revisions may be made to these plans. The field inspector has the latitude of allowing changes.

INSPECTION REQUEST: Requests for inspection can be made 24 hours a day, 7 days per week by either of the two following options.

1. Online: Go to <https://aca.accela.com/kingcounty/> for online scheduling of building and fire inspections for new construction. Be sure to have your permit number on hand.
2. By phone at 1-888-5-INSPECT (1-888-546-7728): Call this automated 24-hour inspection request line to schedule or cancel building inspections, fire inspections or preconstruction conferences. Fire inspection staff will then contact you to schedule a specific time to conduct the inspection. Please allow at least 2 to 4 days in advance.

6) **AB02 CONDITIONAL APPROVAL OF PLANS**

The approval of these plans and issuance of a permit is based on a review of the documents submitted by the applicant and those documents being representative of actual configuration, use, anticipated construction/existing construction and/or installation of equipment and/or devices. Errors or omissions in submitted documents do not constitute approval of any condition relating to those errors or omissions. Approval of plans does not condone or authorize any violation of any King County code/ordinance regulation.

7) **AB03 COPYING OF APPROVED PLANS**

If approved plans are copied for use as Job Site copies, such plans are not acceptable without all condition sheets (plan review requirements) being attached to the copied plans. Attached requirements (condition sheets) are part of the approved set of plans.

8) **XF400.1 FIRE LANE MARKINGS**

See fire lane markings locations on plans.

Signs to be spaced 150 feet or portion thereof apart and posted on or immediately next to the curb. Signs shall be placed at a maximum center-to-center spacing of 150 feet on both sides of the fire lane or put an additional sign beneath the fire lane sign lettered as "both sides." Signs must be a type "R8-31" or equivalent reflective sign no less than 12" x 18" in size, with a white background and the wording NO PARKING FIRE LANE in red letters. The number and spacing of sign maybe modified by the King County Fire Marshal as needed.

Signs posted at a minimum height of 7' measured from the street or sidewalk to the top of the sign

2015 HYDR-Mains-UG FDC

9) **FH 500 WHERE REQUIRED**

Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 400 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official.

Ref: IFC.507.5.1, 2015 Ed.

10) **FH502 FIRE HYDRANT STANDARDS AND DESIGN**

A. Fire hydrants shall have a minimum six (6) inch barrel, shall have a minimum of two 2 1/2 inch outlets and one 4 inch minimum inside diameter pumper port.

B. All hydrant connections shall have threads compatible with those used by the local fire department.

- C. Fire hydrants shall be self-draining and frost-free.
 - D. Fire hydrants shall meet American Water works Association standards and any additional specifications required by the local water purveyor.
 - E. Fire hydrants shall be provided with an auxiliary gate valve, installed to permit the repair and/or replacement of the fire hydrant without disruption of water service.
 - F. Flush-type hydrants are prohibited, except upon specific approval of the Fire Marshal.
 - G. All hydrants shall be subject to testing by the local fire department and the Fire Marshal. The water purveyor shall be notified prior to any such testing. Testing shall be done in cooperation with such purveyors. Fire hydrants shall meet American Water works Association standards and any additional specifications required by the local water purveyor.
- Ref. K.C.C. Title 17, 17.08.020

11) FH504 FIRE HYDRANT INSTALLATION

Where fire apparatus access roads or water supplies for fire protection are required to be installed, such protection shall be installed and made serviceable prior to and during the time of construction except when approved alternative methods of protection are provided. Temporary street signs shall be installed at each street intersection where construction of new roadways allows passage by vehicles in accordance with Section 505.2.

Ref: IFC 501.4, 2015 Ed.

12) FH506 INSTALLATION CRITERIA

- A. Fire hydrants and water mains shall be installed to meet sound engineering practices as specified by the Fire Marshal based on applicable circumstances. The Fire Marshal shall make applications and plans available for comment by the local fire department. Fire hydrants shall be accessible to fire department pumpers over roads capable of supporting such vehicles.
 - B. Fire hydrants shall stand plumb and be set to the finished grade. The bottom of the lowest outlet of the fire hydrants shall be not less than eighteen (18) inches above finished grade. There shall be thirty-six (36) inches of clear area around the hydrant to allow for operation of a hydrant wrench on the outlets and on the control valve.
 - C. The pumper port shall face the street. Where the street cannot be clearly defined or recognized, the port shall face the most likely route of approach and location of the fire apparatus while pumping, as determined by the Fire Marshal.
 - D. Fire hydrants shall be located a minimum of fifty (50) feet from buildings, from the buildings to be protected except upon specific approval of the Fire Marshal.
 - E. All hydrants shall be located between 18 and 120 inches from the edge of the roadway surface, unless specifically approved otherwise by the Fire Marshal. Hydrants located in areas subject to commercial or industrial motor traffic shall be protected against vehicular damage by curbs, space separation, grade-level changes, guard ports or other means approved by the Fire Marshal.
 - F. Hydrants shall not be obstructed by any structure or vegetation nor shall the visibility of the hydrant be impaired for a distance of fifty (50) feet in the direction of vehicular approach to the fire hydrant.
 - G. Fire hydrants shall, when possible, be located at street intersections.
 - H. The location and design of all water mains, fire hydrants, and valves to be installed shall be properly and accurately marked on identifiable plans or drawings, two copies of which shall be attached to the building plans for Fire Marshal approval.
- Ref: K.C.C Title 17, 17.08.030

13) FH508 FIRE HYDRANTS

Permit Number: FIRP17-0335

Coordinate the installation of: FIRE HYDRANTS with the local water district. Verify requirements for backflow protection, types of material, depth of bury, etc., with local water district. Any revisions made to these approved plans to satisfy local water district requirements shall be submitted to the King County Fire Marshal's Office, Fire Engineering Unit for review and approval. INSPECTION OF SYSTEM IS REQUIRED.

Ref. K.C.C. Title 17, 17.08.020

14) FH510 Number of Fire Hydrants

A. All buildings having a gross ground floor area of twenty thousand (20,000) square feet or more, or requiring a fire flow of three thousand (3,000) gallons per minute or more, shall have fire hydrants located on all sides, spaced three hundred (300) feet on center, unless otherwise approved by the Fire Marshal.

B. All buildings which have a gross ground floor area of less than twenty thousand (20,000) square feet and a fire flow of less than three thousand (3,000) gallons per minute may have fire hydrants located on one side only.

C. All fire hydrants required pursuant to this section shall be located within one hundred and fifty (150) feet of the building, unless otherwise approved by the Fire Marshal.

D. All buildings having automatic sprinklers and/or standpipe system(s) shall have one fire hydrant located within one hundred and fifty (150) feet of each fire department pumper connection or group of fire department pumper connections.

E. If the required fire flow for a structure or use exceeds 1250 gallons per minute; the minimum number of fire hydrants shall be not less than the required flow divided by one thousand two hundred fifty (1250), rounded off to the nearest whole number. In no case shall the fire flow be reduced below that required by these rules and regulations as a result of this computation.

Ref: K.C.C. Title 17, 17-08.040

15) FH512 FIRE HYDRANT SPACING

Fire hydrants shall be located as noted on the approved site plan.

A. Residential

1. 700 feet maximum spacing.
2. Not more than 350 feet from each lot.

B. Commercial

1. 300 feet maximum spacing.
2. Located no closer than 50 feet to the building, and not further than 150 feet from the building.
3. Buildings in excess of 20,000 square feet (gross ground floor) or requiring a fire flow of 3,000 gallons or more shall have fire hydrants located on all sides.

Ref: K.C.C. Title 17, 17.08.040

16) FH514 MINIMUM NUMBER OF HYDRANTS AND SPACING FOR A BUILDING

The number of fire hydrants available to a building shall be not less than the minimum specified in Table C102.1.

Specify number and spacing here based on fire flow.
IFC Appendix "C" Table C102.1, 2015 Ed.

17) FH516 FLUSH TYPE FIRE HYDRANTS

Flush-type hydrants are prohibited, except upon specific approval of the Fire Protection Engineering Unit.

Permit Number: FIRP17-0335

Ref. K.C.C. Title 17, 17.08.020(F)

18) FH518 FIRE HYDRANT TESTING

All hydrants shall be subject to testing by the King County Fire Inspector.

The fire code official shall be notified prior to the water supply test. Water supply tests shall be witnessed by the fire code official or approved documentation of the test shall be provided to the fire code official prior to final approval of the

Ref: IFC 507.5.1, 2015 Ed.

19) FH520 FIRE HYDRANT CONNECTION THREADS

All hydrant connections shall have threads compatible with those used by the local fire department.

20) FH522 FIRE HYDRANT PROXIMITY TO ROAD

All hydrants shall be located between 18 and 120 inches from the edge of the roadway surface, unless specifically approved otherwise by the Fire Protection Engineer. Where fire hydrants are subject to impact by a motor vehicle, guard posts or other approved means shall comply with Section 312.

Ref: K.C.C. Title 17; IFC 507.5.6, 2015 Ed.

21) FH524 FIRE HYDRANT OBSTRUCTIONS

Unobstructed access to fire hydrants shall be maintained at all times. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.

Ref: IFC 507.5.4, 2015 Ed.

22) FH526 BLUE REFLECTIVE HYDRANT MARKERS

In accordance with International Fire Code Section 509.1 install blue-colored reflective hydrant markers on the finished street surface. Markers shall be located on the hydrant side of the centerline of the street and in direct line with the hydrant. Where hydrants are installed and operational prior to the final hard surfacing of the street, marker installation may be deferred until final surfacing is done. If marker installation is not completed at the time of final inspection of this permit, the fire inspector shall obtain written confirmation from the permit applicant agreeing to install required markers following final street surfacing.

Ref: IFC 509, 2015 Ed.

23) FH528 FIRE HYDRANT HEIGHT/CLEARANCE

Fire hydrants shall stand plumb and be set to the finished grade. The bottom of the lowest outlet of the fire hydrants shall be not less than eighteen (18) inches above finished grade. There shall be thirty-six (36) inches of clear area around the hydrant to allow for operation of a hydrant wrench on the outlets and on the control valve.

Ref: K.C.C. Title 17, IFC 507.5.5 2015 Ed.

24) FH536 HYDROSTATIC TEST OF PIPING

All piping and attached appurtenances subjected to system working pressure shall be hydrostatically tested at 200 psi (13.8 bar) or 50 psi (3.5 bar) in excess of the system working pressure, whichever is greater, and shall maintain that pressure at ± 5 psi (0.35 bar) for 2 hours.

Ref: NFPA 13, 24, 10.10.2.2 2013 Ed.

The installation or modification of any underground water main, public or private, supplying a water-based fire protection system shall be in accordance with NFPA 24 and chapter 18.130 RCW.

Permit Number: FIRP17-0335

Piping and appurtenances downstream of the first control valve on the lateral or fire service line from the distribution main to one-foot above the finished floor shall be approved by the fire code official. Such underground piping shall be installed by a fire sprinkler system contractor licensed in accordance with chapter 18.160 RCW and holding either a level U or a Level 3 license. For underground piping supplying systems installed in accordance with section 903.3.1.2, a level 2, 3 or U licensed contractor is acceptable.

Ref: IFC 903.3.5.3, 2015 Ed.

25) FH538 FLUSHING OF UNDERGROUND MAINS AND LEAD-IN CONNECTIONS

Underground piping, from the water supply to the system riser, and lead-in connection to the system riser shall be completely flushed before connection is made to downstream fire protection system piping.

The flushing operation shall be continued for a sufficient time to ensure thorough cleaning.

The minimum rate of flow shall be not less than one of the following:

- (1) Hydraulically calculated water demand rate of the system, including any hose requirements
- (2) Flow in accordance with Table 10.10.2.1.3
- (3) Maximum flow rate available to the system under fire conditions

Ref: NFPA 13, 24, 10.10.2.1.1 2013 Ed.

26) FH540 TEST CERTIFICATION

Within 10 days after final inspection of the installation, provide the following to King County Fire Marshal's Office, Fire Inspection Unit for FDC lines, private fire hydrants and sprinkler system lead in:

Contractor's material and test certificate; and/or all inspection, testing and maintenance criteria form[s] for water based fire protection systems as required in conformance to the requirements of NFPA 25; 2014 Ed. NFPA 13, 2013 Ed, NFPA 24, 2013

All required forms shall be provided by the installing contractor and/or testing or maintenance contractor.

Ref: IFC 901.5, 2015 ed. and NFPA 13, 2013 Ed.

For public fire hydrants or water supply and fire hydrants on private property:

The fire code official shall be notified prior to the water supply test. Water supply tests shall be witnessed by the fire code official or approved documentation of the test shall be provided to the fire code official prior to final approval of the water supply system.

Ref: IFC 507.5.1, 2015

27) UG546 DEPTH OF COVER

The depth of cover over water pipes shall be determined by the maximum depth of frost penetration in the locality where the pipe is laid.

The top of the pipe shall be buried not less than 1 ft. (0.3 m) below the frost line for the locality.

Ref: NFPA 13, 24, 10.4.1 2013 Ed.

28) UG548 PIPE UNDER DRIVEWAY/ROADWAYS

Permit Number: FIRP17-0335

Pipe under driveways shall be buried a minimum of 3 ft.
Ref: NFPA 13, 24, 10.4.4 2013 Ed.

29) UG550 PROTECTION AGAINST DAMAGE

Pipe shall not run under buildings, where pipe must run under buildings, special precautions shall be taken, including the following:

- (1) Arching the foundation walls over the pipe
- (2) Running pipe in covered trenches
- (3) Providing valves to isolate sections of pipe under buildings

Ref: NFPA 13, 24, 10.6.2 2013 Ed.

30) UG554 PIPE JOINTS

Pipe joints shall not be located under foundation footings.

Ref: NFPA 13, 24, 10.6.4 2013 Ed.

31) UG556 RESTRAINTS

All tees, plugs, caps, bends, reducers, valves, and hydrant branches shall be restrained against movement by using thrust blocks in accordance with 10.8.2 or restrained joint systems in accordance with 10.8.3.

Ref: NFPA 13, 24, 10.8.1.1 2013 Ed.

32) UG558 THRUST BLOCKING

Thrust blocks shall be placed between undisturbed earth and the fitting to be restrained and shall be capable of resisting the calculated thrust forces

Ref: NFPA 13, 24, 10.8.2.3 2013 Ed.

33) UG560 CORROSION RESISTANCE

After installation, pipe, rods, nuts, bolts, washers, clamps, and other restraining devices shall be cleaned and thoroughly coated with a bituminous or other acceptable corrosion-retarding material.

Ref: NFPA 13, 24, 10.8.3.5 2013 Ed.

34) UG562 BACKFILLING

Backfill shall be tamped in layers or puddled under and around pipes to prevent settlement or lateral movement and shall contain no ashes, cinders, refuse, organic matter, or other corrosive materials.

Rocks shall not be placed in trenches.

Frozen earth shall not be used for backfilling.

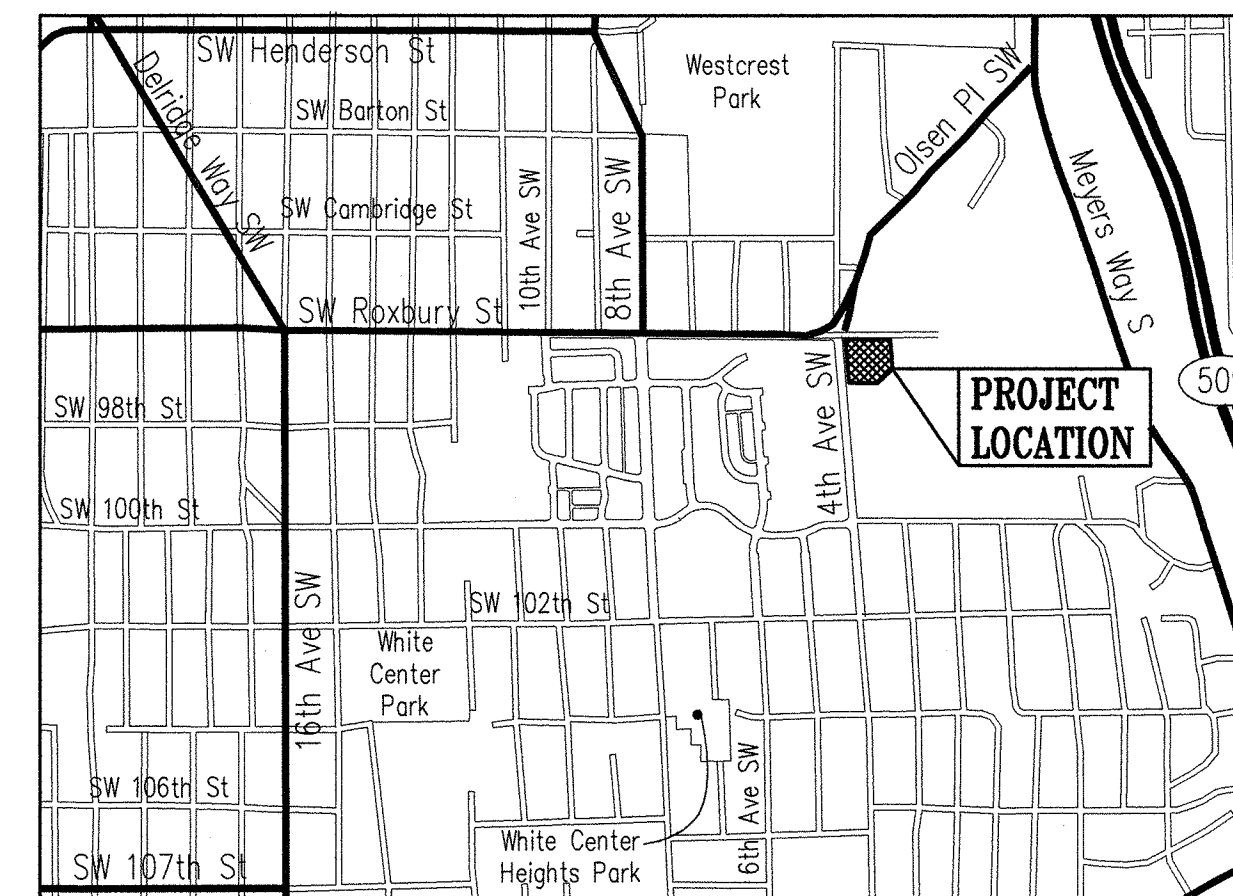
WIND ROSE FIRE PERMIT APPLICATION

SEC. 6, T.23 N., R.4E., W.M.

King County, Washington

JULY 2017

PERMIT SUBMITTAL



VICINITY MAP
N.T.S.



DRAWING INDEX	
SHEET	DRAWING TITLE
CVR	COVER SHEET
EX	FIRE HYDRANT COVERAGE EXHIBIT
1	SPU COVER SHEET
2	SW 97TH PLACE WATER PLAN & PROFILE
3	SW 97TH PLACE WATER PLAN & PROFILE
4	WATER PLAN & PROFILE
5	SW ROXBURY ST WATER PLAN & PROFILE
6	WATER DETAILS

APPROVED

SITE COPY

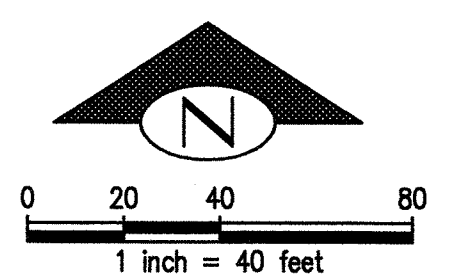
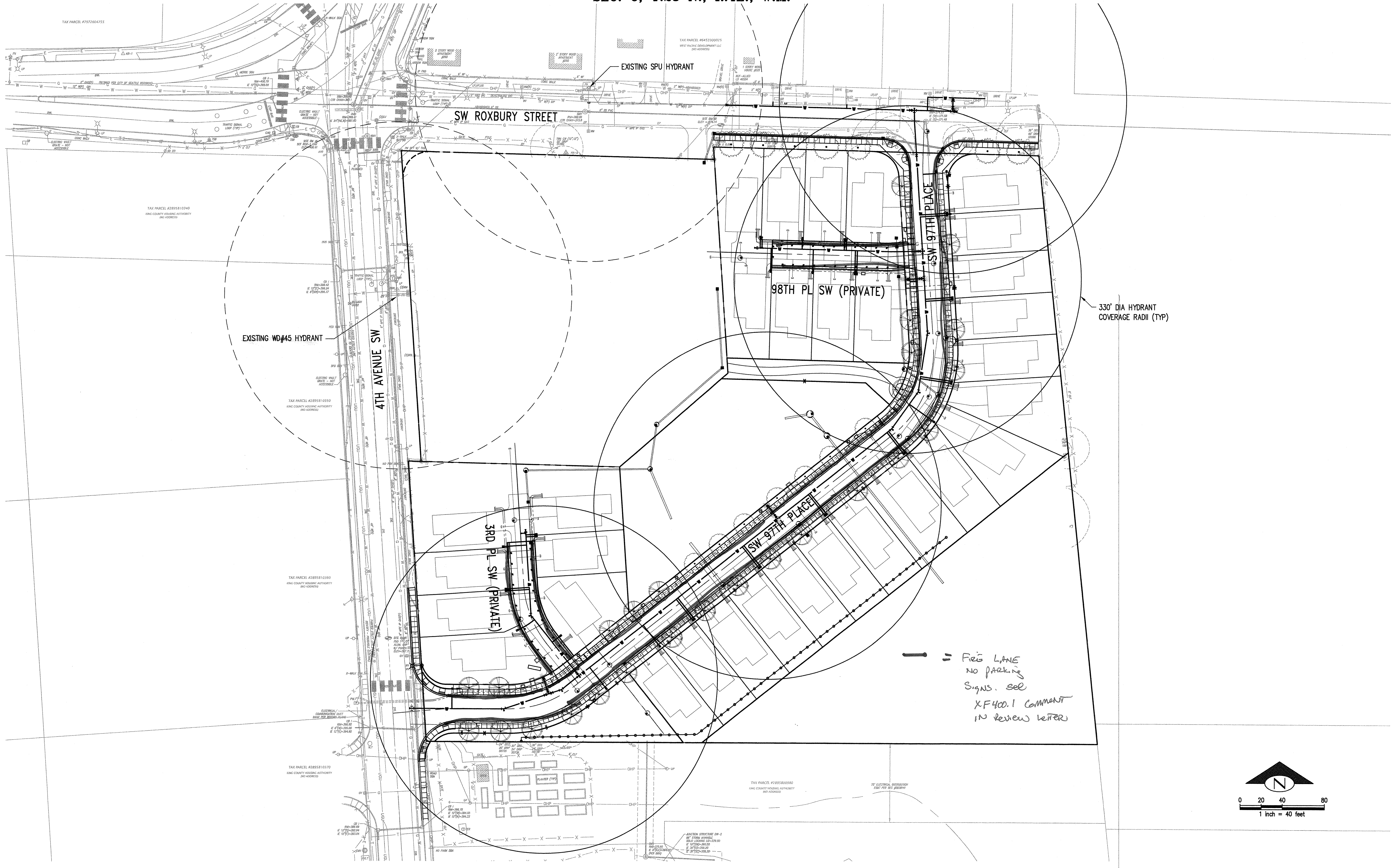
AUG 29 2017
KING COUNTY
FIRE ENGINEERING

PROJECT DEVELOPER

KING COUNTY HOUSING AUTHORITY
600 ANDOVER PARK WEST
SEATTLE, WA. 98188-3326
TELEPHONE: (206) 574-1196
CONTACT PERSON : JOHN ELIASON



SEC. 6, T.23 N., R.4E., W.M.



Z:\11400-11400\114137 (Wind Rose KCHA)\CADD\Design\Exhibits\2017-07-19 WR HD COVER.dwg
Brent
Jul 26, 2017 - 1:28pm

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY BJB
DESIGNED BY BJB
CHECKED BY
APPROVED BY
DATE
JULY 19, 2017
JOB No. : 114137.30

811 Call 811
two business days
before you dig

SCALE:
AS NOTED

kpff
1601 5th Avenue, Suite 1500
Seattle, WA 98101
206.622.5822
www.kpff.com

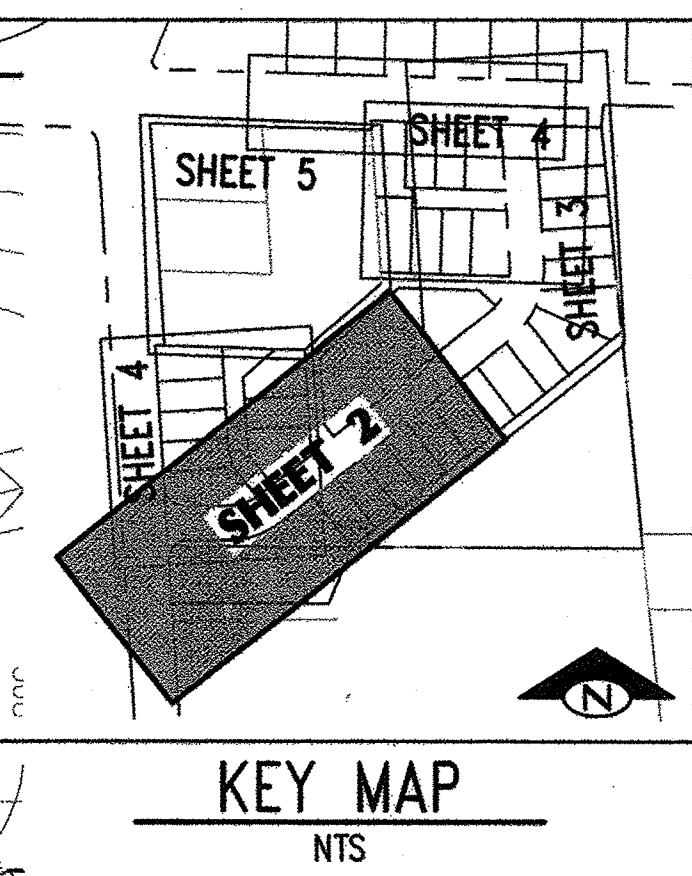
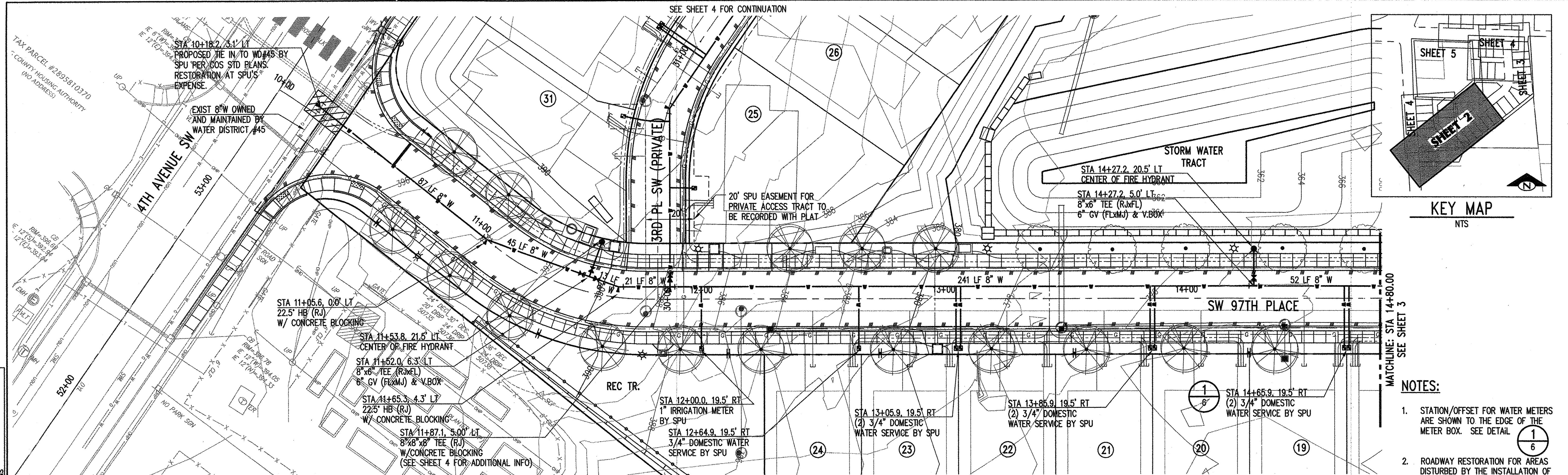
**King County
Housing
Authority**



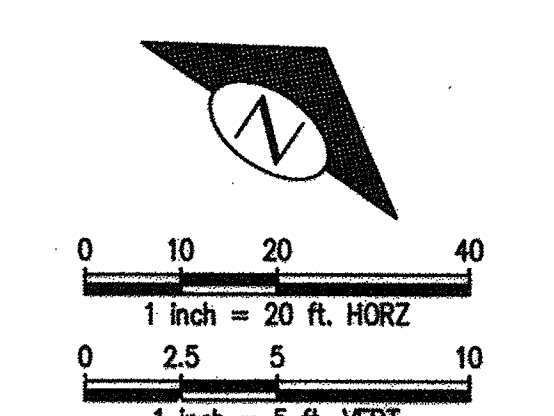
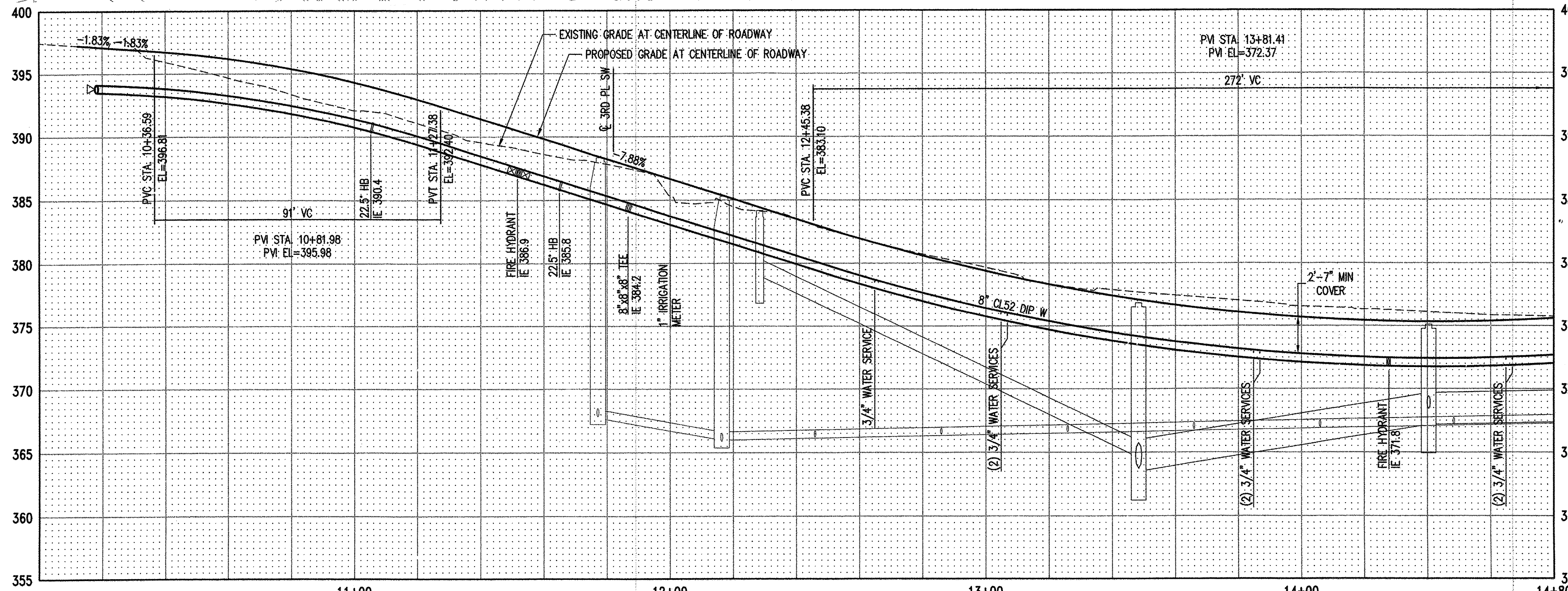
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

WIND ROSE
FIRE HYDRANT COVERAGE EXHIBIT

SHEET
EX



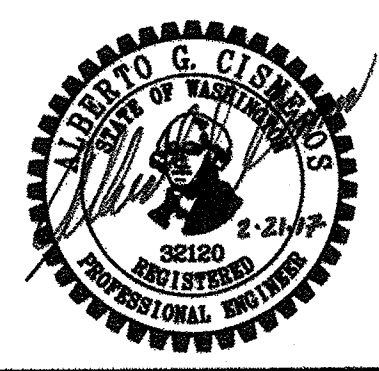
- NOTES:**
- STATION/OFFSET FOR WATER METERS ARE SHOWN TO THE EDGE OF THE METER BOX. SEE DETAIL 1/6
 - ROADWAY RESTORATION FOR AREAS DISTURBED BY THE INSTALLATION OF THE WATER MAIN IN 4TH AVE SW IS COVERED UNDER A SEPARATE KING COUNTY RIGHT OF WAY USE PERMIT BY SPU AT SPU'S EXPENSE.



MADE	CHK'D	REV'D
NATURE	DATE	MARK
REVISIONS		

2114000-11400114137 (Mod. Rese. KCHA) (CAD) (Design) (SPU) (SPU) 02.18.17
 2114000-11400114137 (Mod. Rese. KCHA) (CAD) (Design) (SPU) (SPU) 02.18.17

kpff
 1601 5th Avenue, Suite 1600
 Seattle, WA 98101
 206.622.5822
 www.kpff.com



APPROVED FOR CONSTRUCTION
 BY SEATTLE PUBLIC UTILITIES
 SEATTLE, WASHINGTON
 2/27 2017
 BY: *[Signature]*; PE

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED: BB 02-21-17	REVIEWED: DES. CONST.
CHECKED: AC 02-21-17	SDOT PROJ. MGR.
DRAWN: TD/BB 02-21-17	RECEIVED
CHECKED: BB/AC 02-21-17	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.

Seattle Public Utilities
 City of Seattle
 Ray Hoffman, Director
 ORDNANCE NO. APPROVED
 FUND: INSPECTOR'S BOOK
 SCALE: H.= 20' V.= 5'

KCHA WME PROJECT
 9606 4TH AVE SW
 SW 97TH PLACE
 WATER PLAN & PROFILE

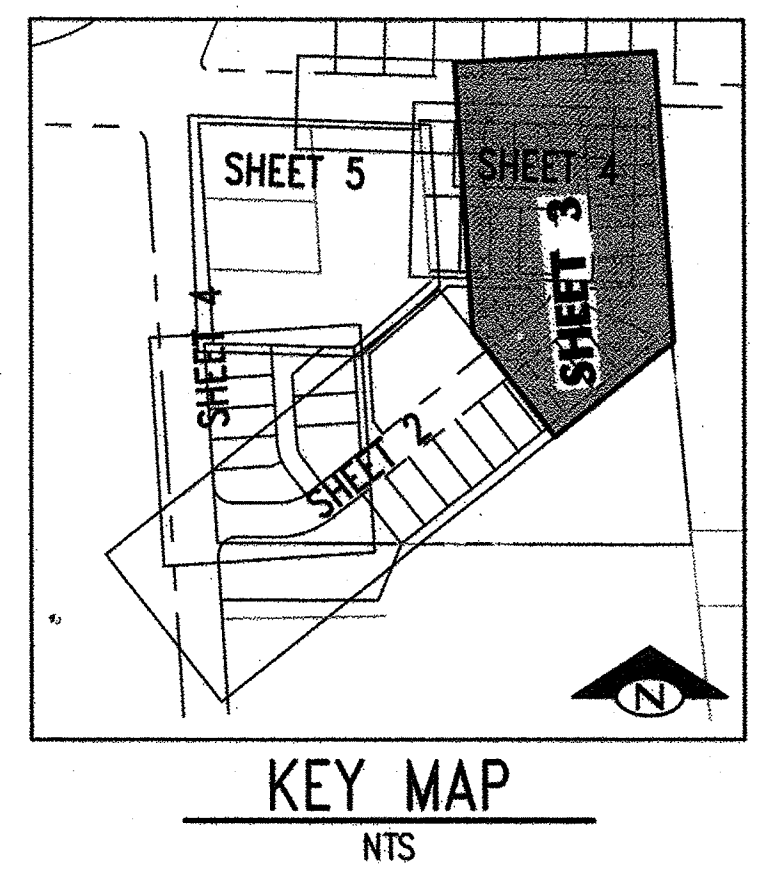
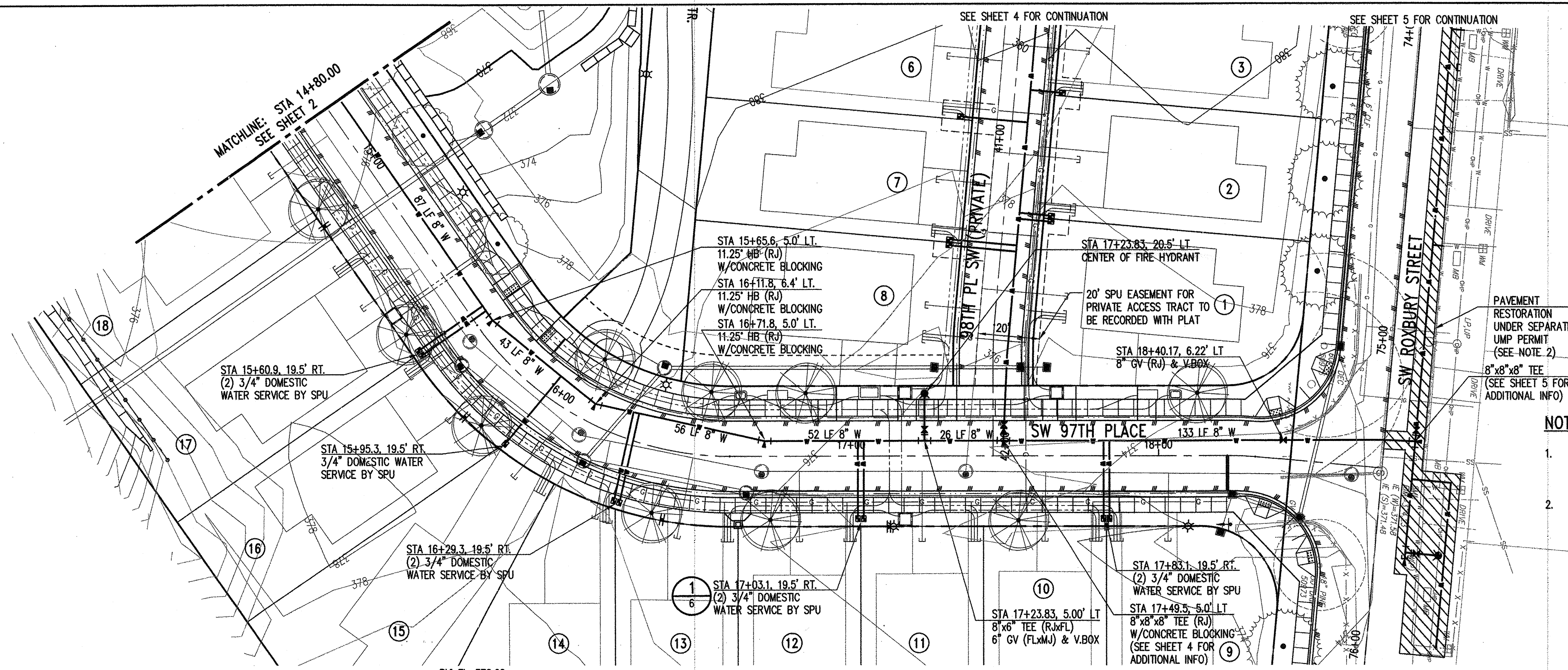
SERIAL NO. 36956

JOB NO.	R/W
VAULT PLAN NO.	CO
776-439	
SHEET 2 OF 6	

MADE/CHK'D	REV'D
NATURE	REVISIONS
DATE	MARK
VAULT SERIAL NO.	

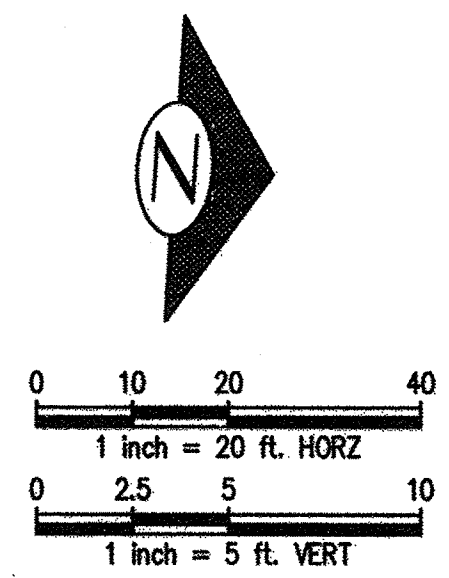
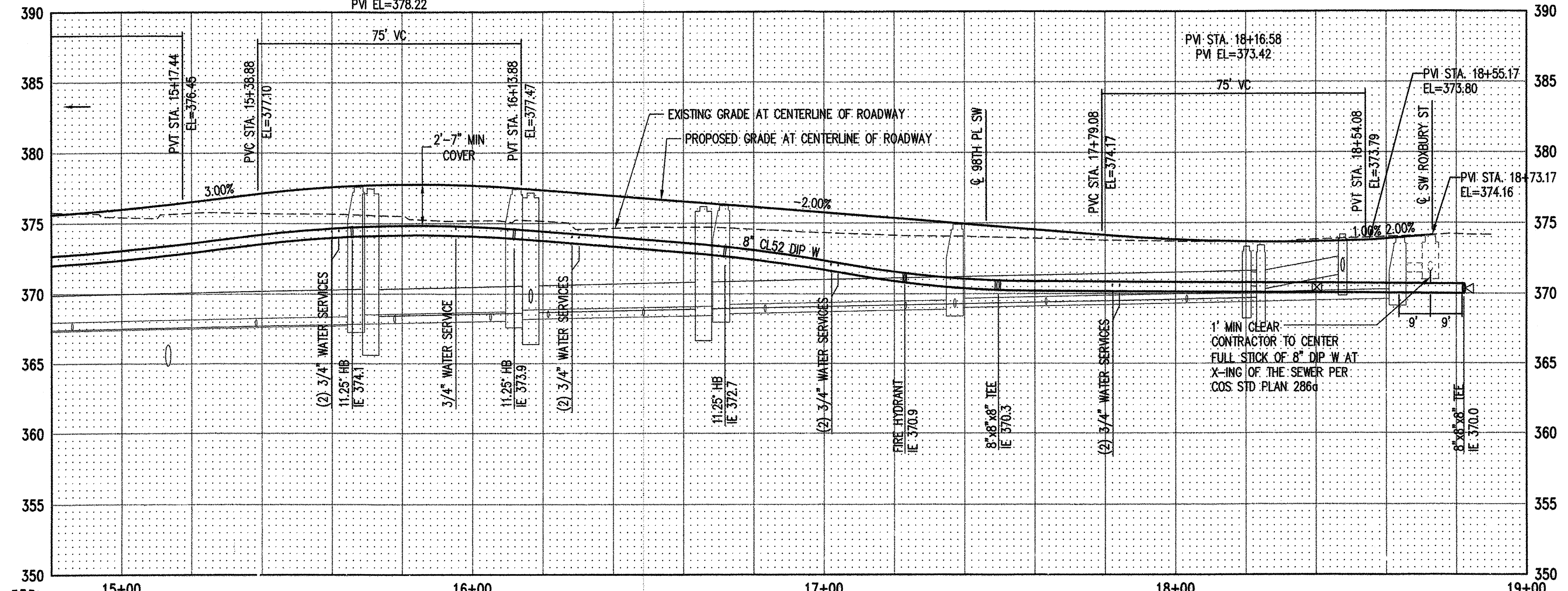
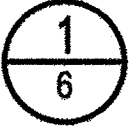
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NOTES:

- STATION/OFFSET FOR WATER METERS ARE SHOWN TO THE EDGE OF THE METER BOX. SEE DETAIL.
- ROADWAY RESTORATION FOR AREAS DISTURBED BY THE INSTALLATION OF THE WATER MAIN AND SERVICES NORTH OF THE CENTERLINE IN SW ROXBURY ST IS COVERED UNDER SEPARATE CITY OF SEATTLE UTILITY MAJOR PERMIT. (UMP)



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SEATTLE, WASHINGTON
2/27 2017
By: *[Signature]*, P.E.

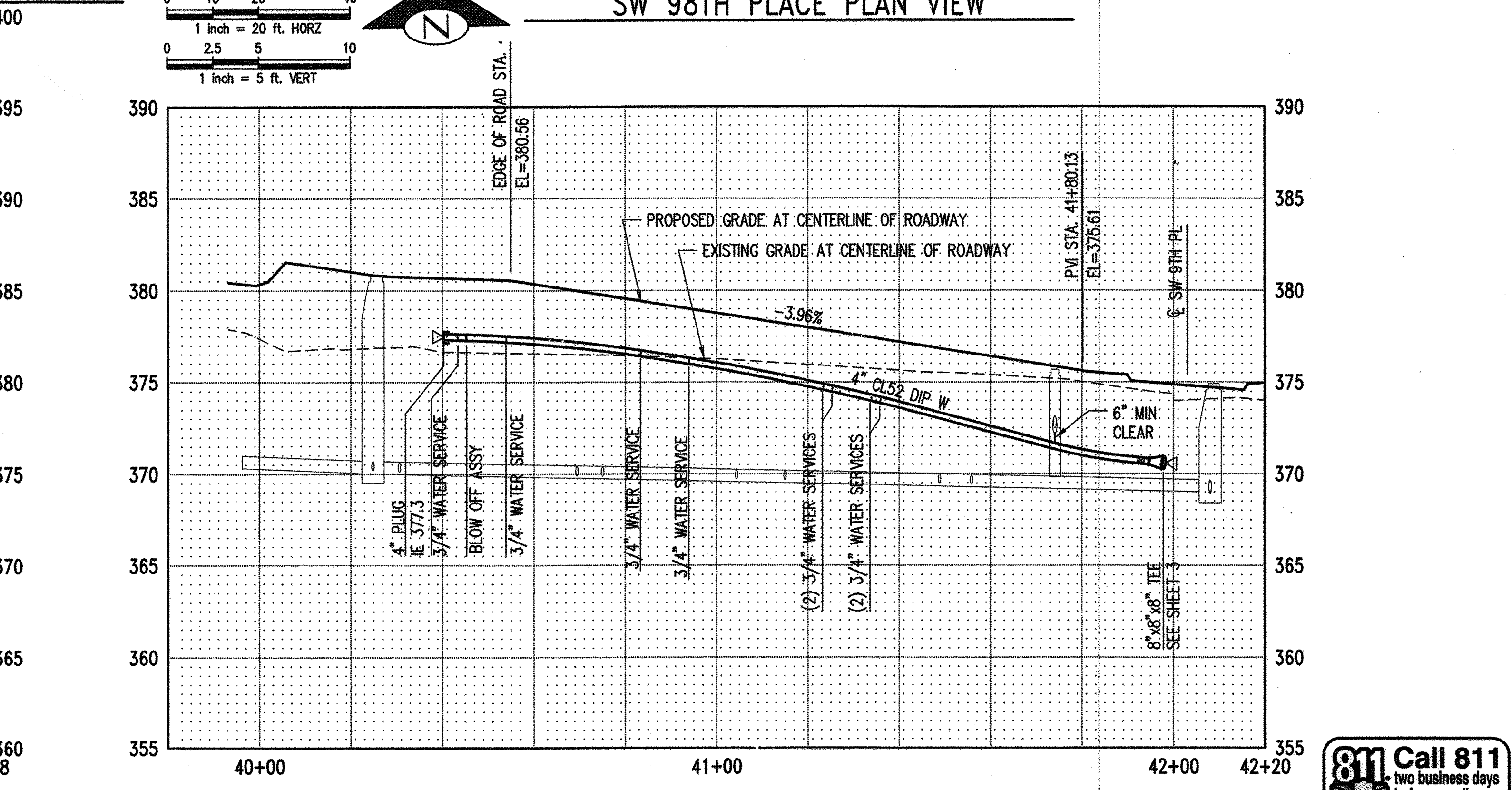
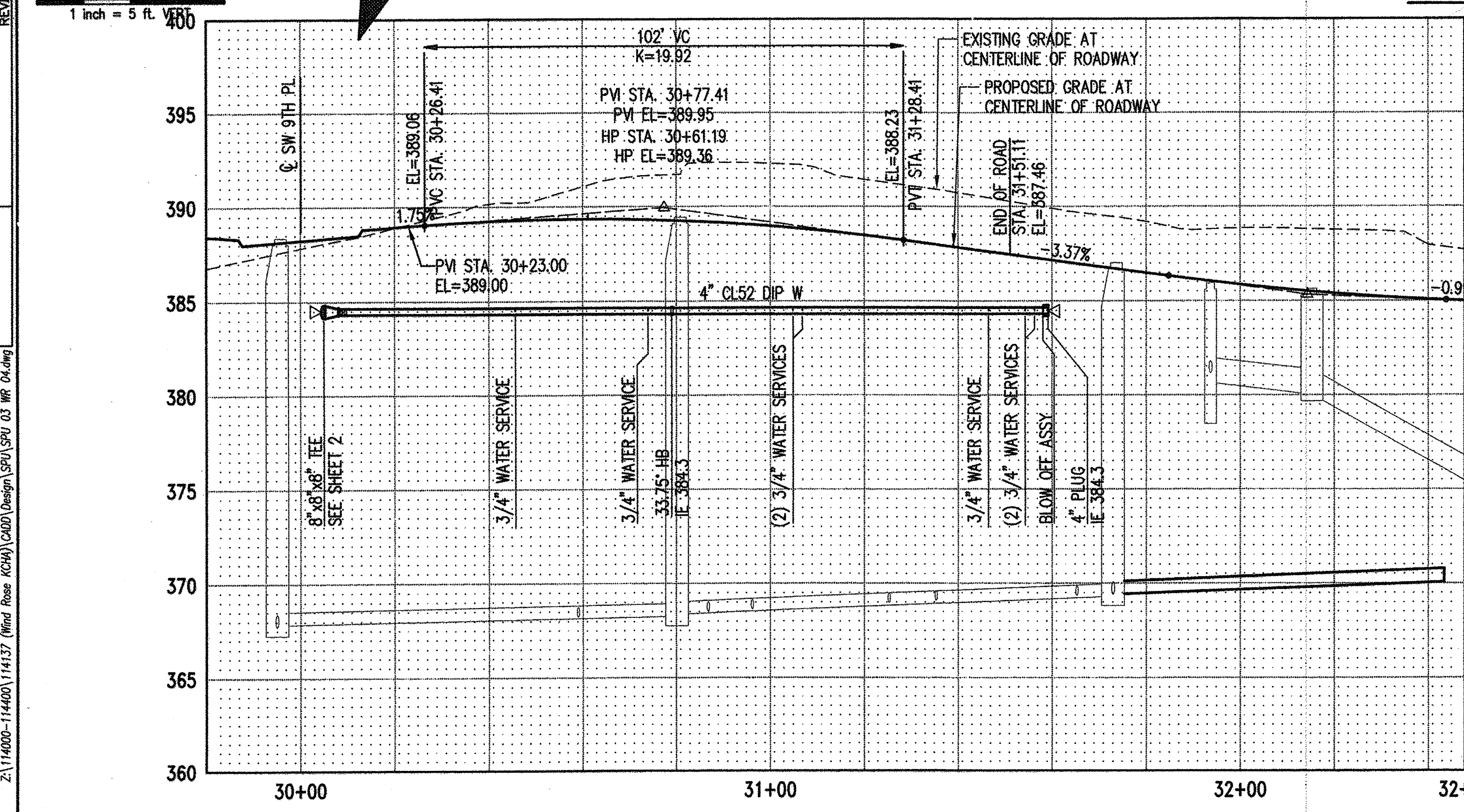
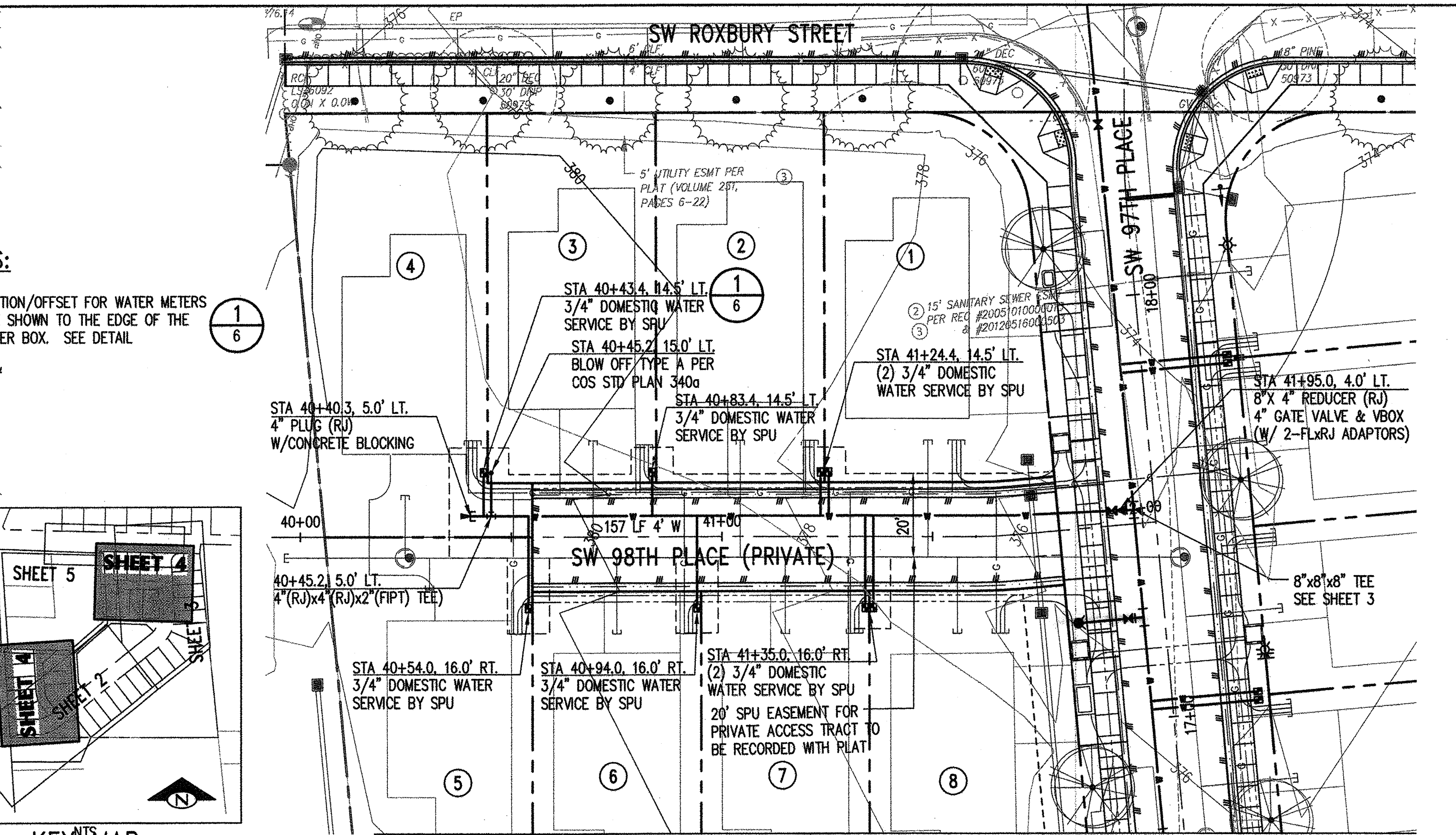
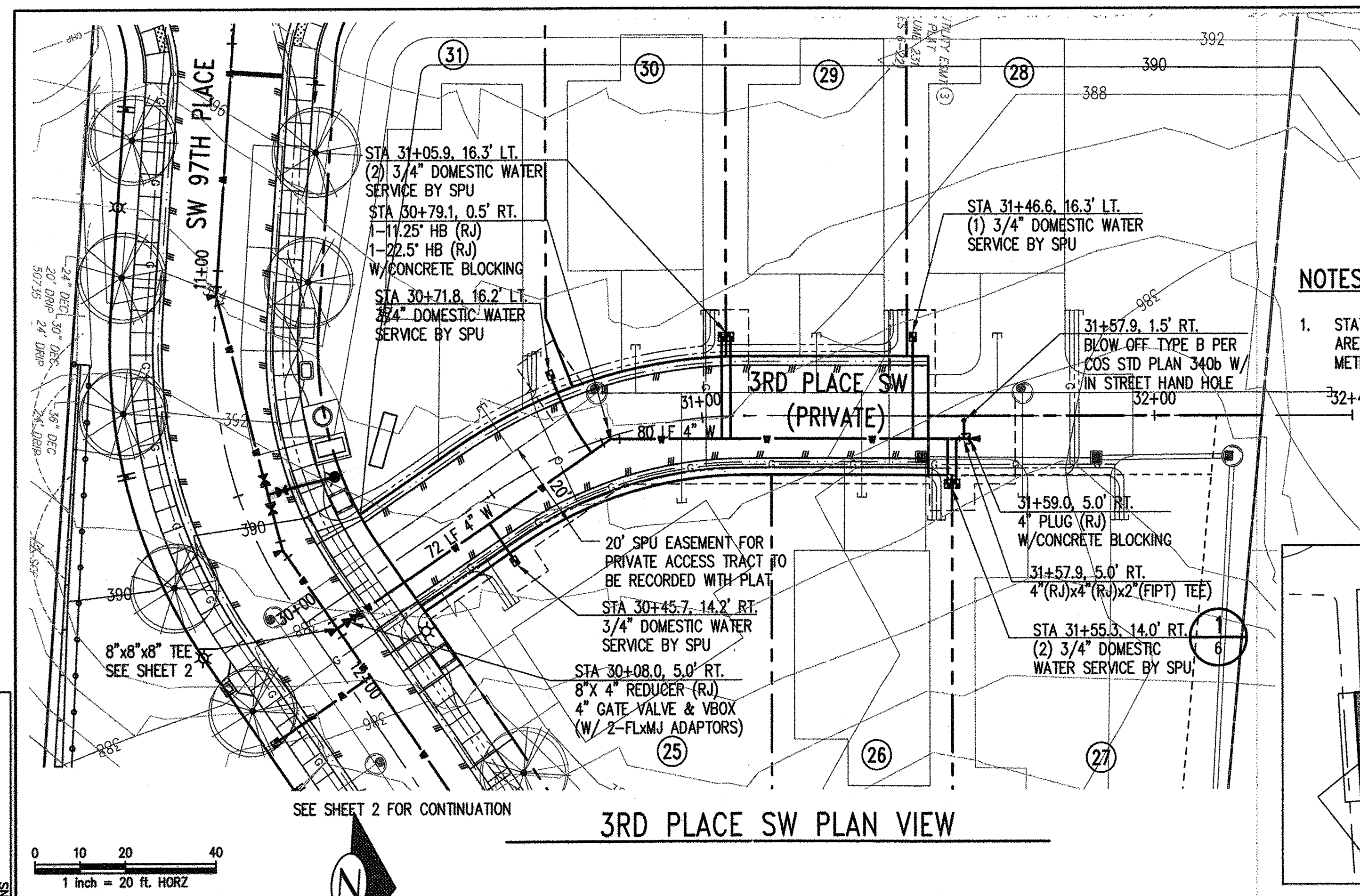
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Seattle Public Utilities City of Seattle
Ray Hoffman, Director
ORDINANCE NO. APPROVED
FUND:
SCALE: H= 20' V= 5' INSPECTOR'S BOOK

KCHA WME PROJECT
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SW 97TH PLACE
WATER PLAN & PROFILE

SERIAL NO. 36956
LOG NO. R/W CO
VAULT PLAN NO. 776-439
SHEET 3 OF 6

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Seattle Public Utilities
City of Seattle
 Ray Hoffman, Director

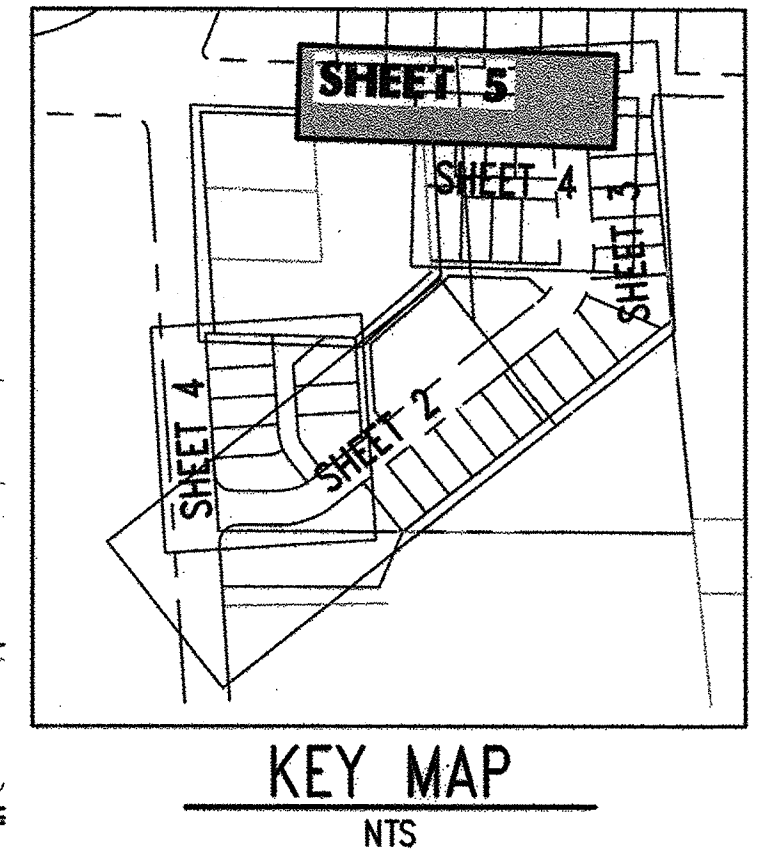
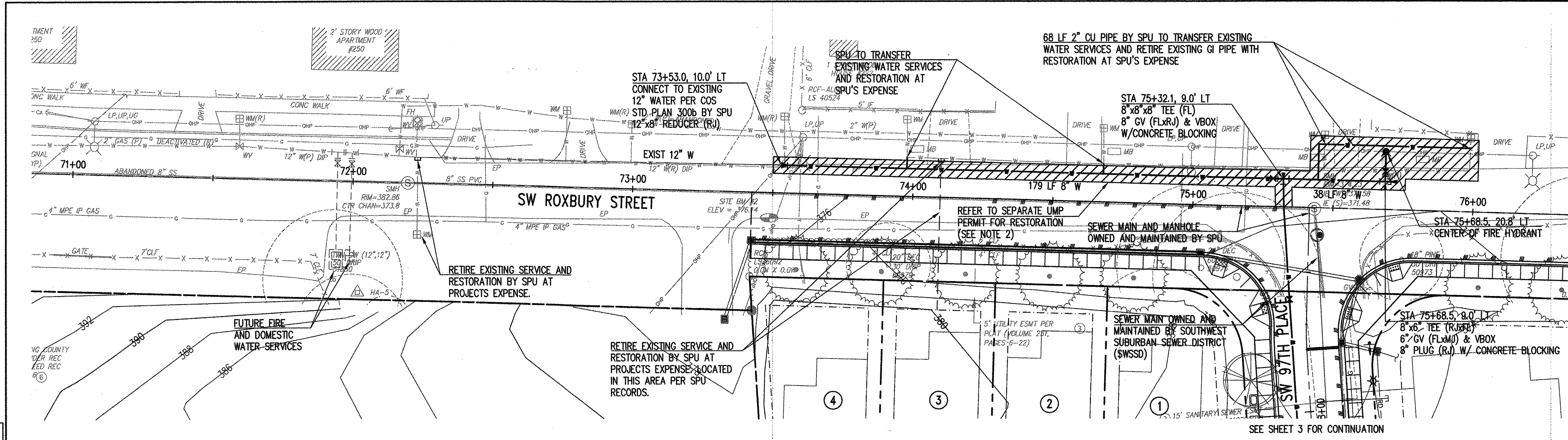
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KCHA WME PROJECT
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WATER PLAN & PROFILE

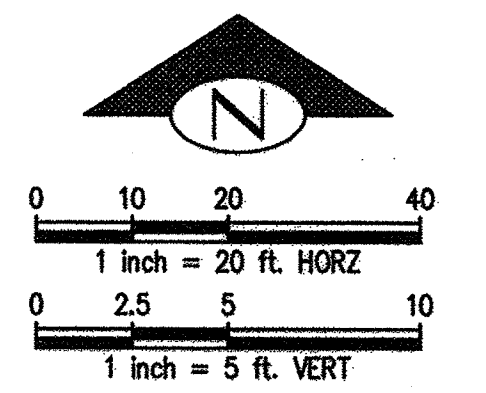
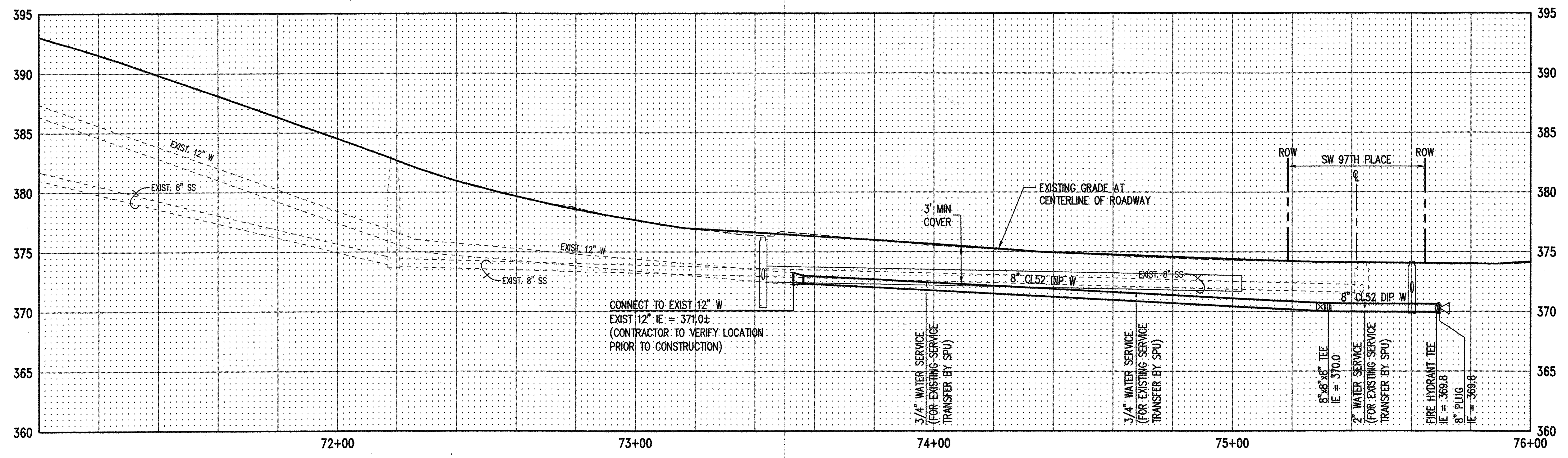
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JOB NO.	R/W CO
VAULT PLAN NO.	776-439
SHEET 4 OF 6	



- NOTES:
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VAULT SERIAL NO.	DATE	MARK	NATURE	REVISIONS

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City of Seattle
Ray Hoffman, Director

ORDINANCE NO. APPROVED
FUND: INSPECTOR'S BOOK
SCALE: H. = 20' V. = 5'

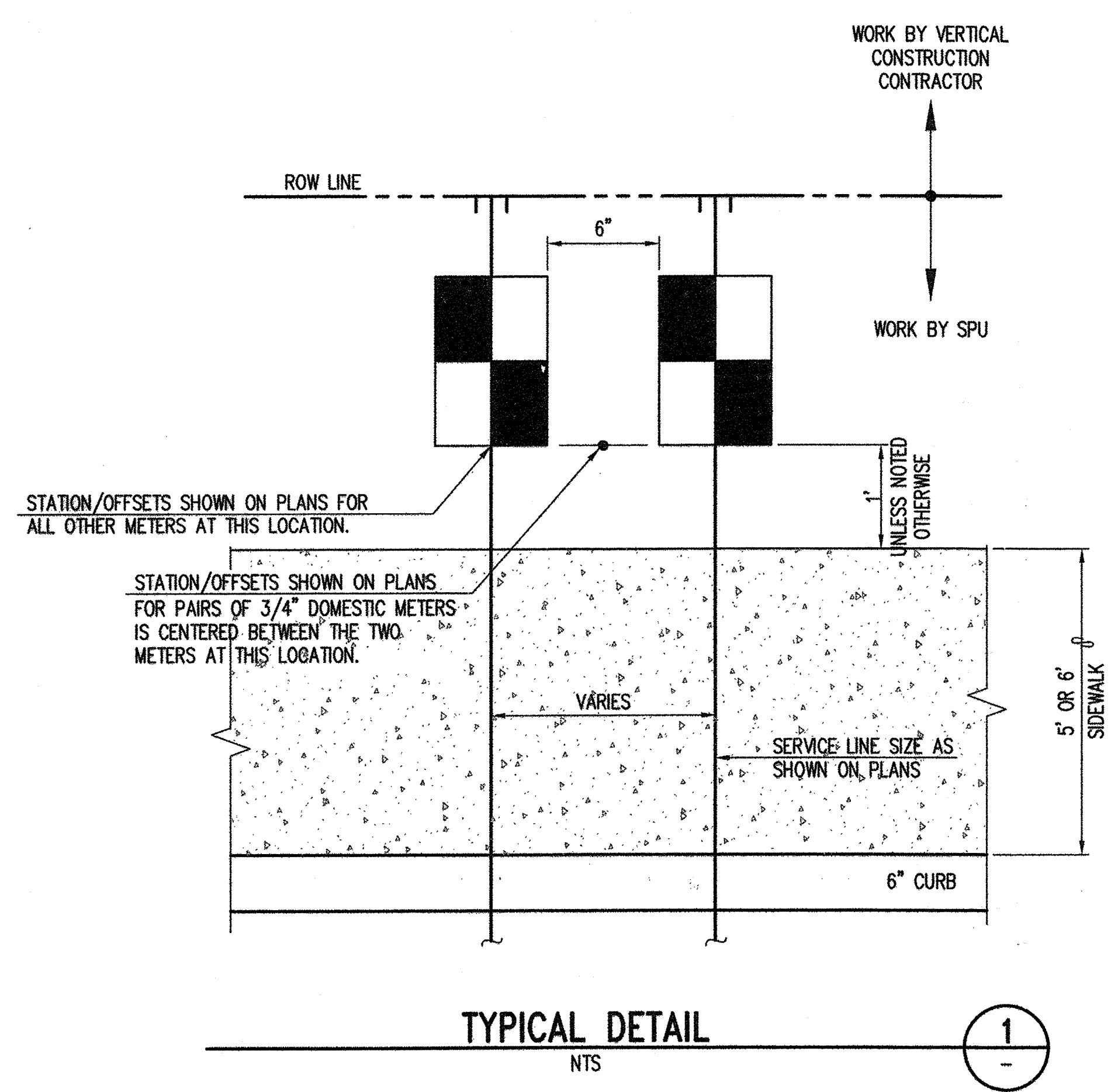
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SW ROXBURY STREET
WATER PLAN & PROFILE

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NO.	R/W
03	CO
VAULT PLAN NO. 776-439	
SHEET 5 OF 6	

VAULT SERIAL NO.	DATE	MARK	NATURE	MADE CHKD	REV'D



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		SDOT	PROJ. MGR.
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 SCALE: AS NOTED

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KCHA WME PROJECT
 9606 4TH AVE SW
 WATER DETAILS

SERIAL NO. 36956

2	R/W
3	CO
VAULT PLAN NO. 776-439	
SHEET 6 OF 6	