



CITY OF KIRKLAND

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT FINAL DESIGN

COK JOB NO. 47-23-PW
ATWELL JOB NO. BL23-113
CIP PROJECT NO. WAC-1370000

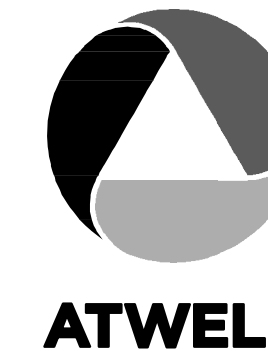
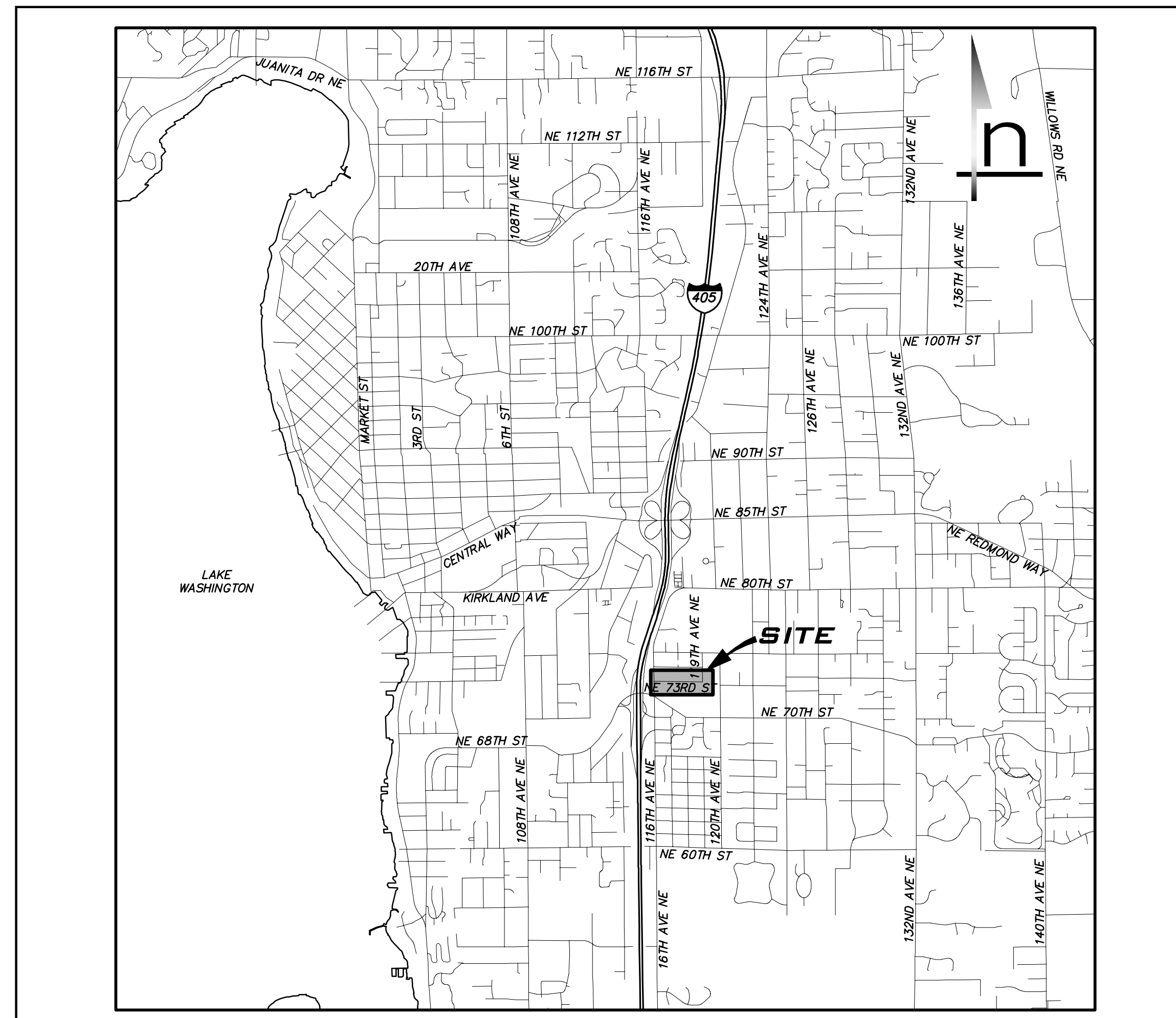
SEPTEMBER 2024

CITY OFFICIALS

KELLI CURTIS	MAYOR
JAY ARNOLD	DEPUTY MAYOR
NEAL BLACK	COUNCIL MEMBER
AMY FALCONE	COUNCIL MEMBER
JON PASCAL	COUNCIL MEMBER
PENNY SWEET	COUNCIL MEMBER
JOHN TYMCZYSZYN	COUNCIL MEMBER
KURT TRIPLETT	CITY MANAGER
TRUC DEVER	PUBLIC WORKS DIRECTOR
ROD STEITZER, PE	CAPITAL PROJECTS MANAGER

CONTACT PERSONNEL

NAME	AGENCY	PHONE
SCOTT GONSAR, PE	COK PROJECT ENGINEER	425.587.3830
CM INSPECTOR TBD	PROJECT INSPECTOR	TBD
STEVE HOOPES	COK FIELD REPRESENTATIVE	425.623.5086
RIK MAYER	COK FIELD REPRESENTATIVE	425.623.5086
EMERGENCY		911
NORCOM	COK POLICE MAINLINE	425.587.3400
NORCOM	COK FIRE MAINLINE	425.587.3650
SPILL RESPONSE HOTLINE	COK	425.587.3900
JEANNE COLEMAN	PUGET SOUND ENERGY GAS	425.563.6550
RICHARD COX	SEATTLE PUBLIC UTILITIES	206.684.8117
CONSTR. COORDINATOR	KING COUNTY METRO TRANSIT	206.684.2732
JOE FORDON	COMCAST	425.263.5348
BRAD LANDIS	VERIZON BUSINESS	425.201.0901
JAY SCHWAB	ZIPLY COMMUNICATIONS	425.263.4019
JASON ACCUARDI	ZAYO	206.456.2858
PHILLIP FISK	WAVE BROADBAND	425.988.3295
	ONE CALL LOCATES	811



ATWELL
25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
CONTACT: KAI POPE
425.250.7273
kpoppe@atwell.com

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	CV-01 COVER SHEET
2	GN-01 GENERAL NOTES & LEGEND
3	GN-02 GENERAL NOTES
4	GN-03 KEY MAP & SURVEY CONTROL
5	EC-01 EXISTING CONDITIONS - NE 73RD ST
6	EC-02 EXISTING CONDITIONS - NE 73RD ST
7	EC-03 EXISTING CONDITIONS - 119TH AVE NE
8	WA-01 WATER PLAN - NE 73RD ST
9	WA-02 WATER PLAN - NE 73RD ST
10	WA-03 WATER PLAN - NE 73RD ST
11	WA-04 WATER PLAN - 119TH AVE NE
12	WA-05 WATER PLAN - NE 74TH ST
13	CD-01 CONNECTION DETAILS
14	RP-01 RESTORATION PLAN - NE 73RD ST
15	RP-02 RESTORATION PLAN - NE 73RD ST
16	RP-03 RESTORATION PLAN - 119TH AVE NE
17	DT-01 STANDARD DETAILS
18	DT-02 STANDARD DETAILS
19	DT-03 STANDARD DETAILS

WATER NOTES

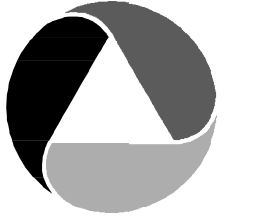
1. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
2. ALL WATER MAIN WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CURRENT AWWA, WSDOT, AND APWA STANDARD SPECIFICATIONS, AS AMENDED BY THE CITY OF KIRKLAND. ALL MATERIAL UTILIZED SHALL BE NEW, NO PARTS SHALL BE REUSED. ANY PART REMOVED FROM THE SYSTEM FOR ANY REASON MAY NOT BE REUSED AND SHALL BE REPLACED WITH A NEW PART. (E.G. A ROMAC WITH A BAD GASKET MUST BE REPLACED WITH AN ENTIRELY NEW ROMAC ASSEMBLY).
3. THE WATER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51-86 OR THE MOST RECENT REVISION. THE PIPE SHALL BE 1/16" CEMENT LINED AND SEALED IN ACCORDANCE WITH ANSI/AWWA C104/A21.4-90. THE CAST IRON OR DUCTILE IRON PIPE FITTINGS SHALL BE CLASS 250 AS PER ANSI/AWWA C110/A21.10-82. PIPE BEDDING SHALL BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. UNLESS IT IS NECESSARY TO CLEAR EXISTING UTILITIES, THE WATER MAIN SHOULD BE INSTALLED WITH UNDER 60° OF COVER BUT NEVER LESS THAN 36° OF COVER TO THE TOP OF THE PIPE. ANY DEVIATIONS FROM THIS SHALL BE APPROVED BY THE CITY OF KIRKLAND APPROVING AUTHORITY PRIOR TO START OF CONSTRUCTION ACTIVITIES.
4. CONCRETE BLOCKING FOR WATER MAINS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH AWWA AND CITY OF KIRKLAND SPECIFICATIONS AND SHALL BE INSTALLED AT ALL VERTICAL AND HORIZONTAL BENDS AND FITTINGS. PRIOR TO BLOCKING, THE FITTINGS SHALL BE WRAPPED WITH VISQUEEN.
5. ALL CONNECTIONS TO EXISTING MAINS AND ALL TESTING AND DISINFECTION SHALL BE PERFORMED UNDER THE SUPERVISION OF THE CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS INSPECTOR.
6. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN SO AS TO AVOID DAMAGE OR DISTURBANCE. THE UNDERGROUND UTILITY LOCATION SERVICE SHALL BE CONTACTED FOR FIELD LOCATION PRIOR TO ANY CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE CONTACTED IF A UTILITY CONFLICT EXISTS. FOR UTILITY LOCATION IN KING COUNTY, CALL 1-800-424-5555. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT UTILITY LOCATES ARE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
7. ALL CONTRACTORS WORKING WITH AC PIPE MUST BE STATE-CERTIFIED. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CLOTHING AND EQUIPMENT (COVERALLS, GLOVES, BOOTS, HEAD COVERING, GOGGLES, RESPIRATORS, ETC.) TO CREWS WORKING WITH ASBESTOS CEMENT PIPE IN ORDER TO ASSURE THE WORKER'S EXPOSURE TO ASBESTOS MATERIAL IS AT OR BELOW THE LIMITS PRESCRIBED IN WAC 296-62-07705.
8. AN APPROVED COPY OF THE WATER PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. A 5' MINIMUM HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER FACILITIES AND UNDERGROUND POWER AND TELEPHONE FACILITIES, UNLESS OTHERWISE APPROVED BY THE CITY OF KIRKLAND.
10. FOR WATER MAIN AND SEWER MAIN SEPARATION REQUIREMENTS, SEE ITEM VIII.C OF THE SANITARY SEWER - DESIGN CRITERIA SECTION AND DETAIL W.01.
11. PRESSURE AND PURITY TESTING SHALL BE DONE IN THE PRESENCE OF, AND UNDER THE SUPERVISION OF, A CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS INSPECTOR. THE CONTRACTOR SHALL PROVIDE ALL PLUGS AND TEMPORARY BLOWOUT ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION PRIOR TO FINAL TIE-IN. NO CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING MAINS UNTIL THE NEW PIPING HAS BEEN DISINFECTED, FLUSHED, AND PASSED BOTH PRESSURE AND PURITY TESTING. TEMPORARY PLUGS AND BLOCKING SHALL BE INSTALLED AT THE POINTS OF CONNECTION TO THE EXISTING SYSTEM FOR CONSTRUCTION OF NEW WATER MAIN, THE SERVICES, HYDRANTS ETC., WILL BE TESTED WITH THE MAIN PRESSURE TESTING WILL REQUIRE A MINIMUM OF 200 PSI FOR 15 MINUTES WITH NO PRESSURE DROP. UPON SATISFACTORY COMPLETION OF THE PRESSURE TEST, THE LINE SHALL BE DISINFECTED, FLUSHED, AND THEN A SAMPLE SHALL BE TAKEN FOR PURITY TESTING BY THE PUBLIC WORKS INSPECTOR.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF KIRKLAND INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING AS-BUILT DRAWINGS OF ALL CONSTRUCTION NOT INSTALLED ACCORDING TO THE APPROVED PLANS. (THIS DOES NOT GIVE APPROVAL FOR AS-BUILT CONSTRUCTION.)
13. THE CONTRACTOR SHALL CONTACT THE CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS FIVE (5) DAYS PRIOR TO ANY WORK REQUIRING THE SHUTDOWN OF EXISTING WATER MAINS. THE CONTRACTOR IS REQUIRED TO GIVE TWO (2) WORKING DAYS NOTICE TO ALL CUSTOMERS AFFECTED BY A WATER MAIN SHUTDOWN (NOTICES AND MAPS FOR THE SHUTDOWN WILL BE PROVIDED BY THE WATER DIVISION). SHUTDOWNS SHALL BE SCHEDULED FOR MONDAYS, TUESDAYS, WEDNESDAYS, AND THURSDAYS BETWEEN 8:30 AM AND 2 PM. SHUTDOWNS AFFECTING INSTITUTIONS SHALL BE SCHEDULED AT NIGHT. ONLY WATER DIVISION PERSONNEL OR A DESIGNATE OF THE WATER DIVISION MANAGER MAY OPERATE VALVES, AND/OR HYDRANTS, BLOW-OFFS, ETC. FOR FILLS, SHUT DOWNS, FLUSHING, OR RECHARGING OF WATER LINES. TWO (2) WORKING DAYS NOTICE TO THE WATER DIVISION IS REQUIRED TO SCHEDULE FILLS.
14. THERE SHALL BE NO WATER MAIN CONSTRUCTION ON A SATURDAY, SUNDAY, OR HOLIDAYS OBSERVED BY THE CITY OF KIRKLAND.
15. SHOULD THE WATER MAIN WORK NECESSITATE THE CLOSING OF CERTAIN GATE VALVES WITHIN THE EXISTING SYSTEM, THE CITY OF KIRKLAND MAINTENANCE DEPARTMENT SHALL BE RESPONSIBLE FOR THE OPERATION OF SUCH VALVES.
16. THE FIRE FLOW SYSTEM SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO ABOVE-GROUND COMBUSTIBLE CONSTRUCTION.
17. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT DENSITY IN ROADWAYS, ROADWAY SHOULDERS, ROADWAY PRISM AND DRIVEWAYS, AND 85 PERCENT DENSITY IN UNPAVED AREAS. ALL PIPE ZONE COMPACTION SHALL BE 95 PERCENT.
18. MEGA-LUGS (OR SIMILAR PRODUCT) SHALL BE REQUIRED ON ALL FITTINGS AND VALVES FOR TIE-INS, OR BUILDOUTS FOR TIE-INS PRIOR TO A FINAL CONNECTION TO THE EXISTING WATER MAIN. APPROPRIATE CONCRETE BLOCKING IS ALSO REQUIRED IN ADDITION TO MEGA-LUGS.
19. FOR THE DURATION OF ANY WATER MAIN INSTALLATION PROJECT, ALL EXISTING AND NEWLY INSTALLED VALVE CANS ARE TO REMAIN ACCESSIBLE TO WATER DIVISION PERSONNEL.
20. WHEN IT BECOMES NECESSARY TO RE-PLUMB THE CUSTOMER'S SIDE OF AN EXISTING WATER METER AS THE RESULT OF THE RELOCATION OF THE EXISTING SERVICE OR TO COMPLY WITH OTHER CITY OF KIRKLAND PUBLIC WORKS SPECIFICATIONS, THE CUSTOMER'S SIDE SHALL BE RECONNECTED WITH THE APPROPRIATE PLUMBING MATERIALS (AND RELATED FITTINGS) SUCH AS BRASS, COPPER, POLYETHYLENE WITH A 200 P.S.I. RATING, OR ALL PARTS, PIPE, AND/OR FITTINGS SHALL BE NEW FROM THE BACK SIDE OF THE METER TO THE CONNECTION POINT OF THE CUSTOMER'S SERVICE.
21. NO TIE-IN WILL BE ALLOWED INTO THE EXISTING TAILPIECE ON THE CUSTOMER'S SIDE OF THE METER. IF THE EXISTING METER DOES NOT HAVE A CHECK VALVE INSTALLED ON THE BACK SIDE OF THE METER (CUSTOMER'S SIDE), A CHECK VALVE CANNOT BE INSTALLED WHEN DOING THE TIE-IN.
22. IF A FITTING, EITHER DURING INSTALLATION OR AFTER, IS FOUND TO BE DEFECTIVE IN ANY WAY AS DETERMINED BY THE CITY, THE CONTRACTOR SHALL REPLACE THE ENTIRE FITTING AND NOT JUST THE DEFECTIVE COMPONENT.
23. BEGINNING JANUARY 1, 2014, ALL PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND PLUMBING FIXTURES USED FOR POTABLE WATER, MUST HAVE A MAXIMUM LEAD CONTENT NOT TO EXCEED 0.25% PER "LEAD FREE" STANDARDS AS DEFINED IN SECTION 9 OF NSF/ANSI STANDARD 61.

GENERAL NOTES

1. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING WITH THE CITY OF KIRKLAND TO BE ATTENDED BY ALL MAJOR CONTRACTORS AND REPRESENTATIVES OF INVOLVED UTILITIES. SEE SECTION 1-07.17 OF THE SPECIAL PROVISIONS FOR UTILITY CONTACT INFORMATION.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REQUEST A PUNCH LIST FROM THE CITY'S INSPECTOR PER SECTION 1-05.11 OF THE SPECIFICATIONS. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE PROJECT.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AT TIME OF BID, (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, UNLESS SUPERSEDED OR AMENDED BY THE PROJECT SPECIAL PROVISIONS OR CITY OF KIRKLAND PRE-APPROVED PLANS (CURRENT EDITION) (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS, SPECIFICATIONS, AND DETAILS, AND THE WSDOT STANDARD SPECIFICATIONS SHALL BE ONSITE DURING ALL CONSTRUCTION.
5. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND BEFORE WORK COMMENCES. CALL 8-1-1 AT LEAST 2 WORKING DAYS PRIOR TO ANY CONSTRUCTION.
6. CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4" DIAMETER AND LARGER AND/OR HIGH PRESSURE GAS MAINS.
7. THE CONTRACTOR SHALL PREPARE A SITE SPECIFIC TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MUTCD AND SHALL SUBMIT TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE TRAFFIC CONTROL PLAN.

WATER - CONSTRUCTION CRITERIA

1. UNLESS OTHERWISE SPECIFIED, THE MINIMUM NEW WATER SERVICE SIZE SHALL BE 1" POLY WITH A 1" ANGLE STOP. CRIMPING WILL NOT BE ALLOWED ON ANY NEW OR EXISTING SERVICE.
2. THIS NOTE INTENTIONALLY DELETED.
3. THIS NOTE INTENTIONALLY DELETED.
4. THIS NOTE INTENTIONALLY DELETED.
5. SIZE-ON-SIZE WET TAPS ARE ALLOWED AS LONG AS THE EXISTING PIPE IS OF AN ACCEPTABLE CONDITION. IF IT IS DETERMINED BY CITY STAFF THAT THE PIPE CANNOT ACCEPT A WET TAP, THE NEW VALVE WILL NEED TO BE CUT IN.
6. NEW MAIN INSTALLATIONS: ALL NEW WATER MAINS SHALL BE LAID STARTING AT THE EXISTING MAIN. ALL VALVES SHALL BE CUT IN FIRST, (DEPENDING ON THE REQUIREMENTS FOR THE NEW INSTALLATION) ALLOWING FOR A GAP FROM THE VALVE, (NO LESS THAN 3' LONG AND NO MORE THAN 10' LONG) WITH TEMPORARY BLOCKING PER CK-W.10. TYPICALLY A THREE-WAY VALVE CLUSTER IS REQUIRED AT THE CUT-IN TEE. DO NOT USE A WET TAP VALVE WITHOUT PRIOR AUTHORIZATION BY PUBLIC WORKS (DISCUSS WITH THE DEVELOPMENT ENGINEER). THE NEW MAIN SHALL BE LAID STARTING AT THIS POINT. AFTER INSPECTION OF THE NEW MAIN AND APPURTENANCES (SERVICES, HYDRANTS, AIR/VACS AND BLOW-OFFS, ETC.), THE MAIN SHALL BE FILLED PER CK-W.10, PRESSURE TESTED, FLUSHED AND A "SATISFACTORY" PURITY SAMPLE TAKEN PRIOR TO TIE-IN. THE CONTRACTOR WILL BE REQUIRED TO RENT A 2" HYDRANT METER FROM THE CITY PER CK-W.10 FOR FILLING AND FLUSHING OF THE NEW MAIN.
7. THIS NOTE INTENTIONALLY DELETED.
8. HYDRANTS INSTALLED WITH NEW MAIN EXTENSIONS SHALL BE TESTED WITH THE FOOT VALVE OPEN AND THE MAIN VALVE (HYDRANT) CLOSED. HYDRANT WILL THEN BE INSPECTED AND OPERATED DURING FLUSH.
9. HYDRANTS INSTALLED ON EXISTING MAINS SHALL BE SWABBED WITH CHLORINE, FLUSHED AND PRESSURE TESTED WITH THE FOOT VALVE CLOSED AND THE MAIN VALVE (HYDRANT) OPEN.
10. ALL NEW BUILDINGS SHALL HAVE A WATER SERVICE THAT MEETS THE CURRENT STANDARDS. ANY EXISTING SERVICES THAT NEED TO BE ABANDONED BECAUSE OF SIZE, MATERIAL, LOCATION OR OTHER CONDITIONS, MUST BE CUT AND CAPPED AT THE MAIN PER CURRENT PUBLIC WORKS SPECIFICATIONS. IF IT IS DETERMINED THAT THE EXISTING CORPORATION STOP IS A HAYES OR B-MACHINE, THE CORPORATION STOP SHALL BE REMOVED FROM THE MAIN AND A REPAIR BAND INSTALLED (SHALL USE ROMAC SS-1 (OR EQUAL) 12" LONG REPAIR BAND IF REQUIRED). NOTE: GALVANIZED, "BLUE-POLY", COPPER AND PVC ARE THE MOST COMMON TYPES OF EXISTING SERVICES THAT ARE FOUND IN THE CITY AND REQUIRED TO BE UPGRADED.
11. WATER SERVICES AND METERS SHALL NOT BE LOCATED IN DRIVEWAYS. IF AN EXISTING WATER METER IS LOCATED IN AN EXISTING DRIVEWAY AND THE SERVICE NEEDS TO BE UPGRADED, OR THE DRIVEWAY IS REMOVED AND REPLACED, THE EXISTING WATER SERVICE SHALL BE ABANDONED AT THE WATER MAIN AND A NEW WATER SERVICE SHALL BE INSTALLED OUTSIDE OF THE DRIVEWAY.
12. IF AN EXISTING WATER VALVE NEEDS TO BE ABANDONED, A SHUT DOWN SHALL BE SCHEDULED WITH THE WATER DEPARTMENT. THE VALVE MUST BE REMOVED AND A BLIND FLANGE INSTALLED ON THE TEE.
13. WHEN AN AC WATER MAIN IS TUNNELED UNDER TO INSTALL ANOTHER UTILITY, THE SECTION OF THE AC MAIN WITHIN THE TRENCH AND FOR 5 FEET ON EITHER SIDE OF THE TRENCH SHALL BE REPLACED WITH CLASS 52 DI PIPE. IT MAY REQUIRE ONE FULL STICK OF PIPE OR MORE TO INCLUDE REPLACING ANY EXPOSED COUPLINGS AND MILLS. ALL CONNECTIONS SHALL BE MADE WITH ROMAC COUPLINGS.
14. THE CONTRACTOR SHALL COORDINATE SHUT DOWNS, FILLS AND FLUSHES WITH THE CITY OF KIRKLAND INSPECTOR WHO WILL THEN COORDINATE DATES AND TIMES WITH THE WATER DIVISION. ALL VALVES, INCLUDING HYDRANTS, BLOW-OFFS, ETC., SHALL BE OPERATED BY CITY OF KIRKLAND WATER DEPARTMENT PERSONNEL. A MINIMUM OF TWO (2) WORKING DAYS NOTICE TO ALL AFFECTED PROPERTY OWNERS IS REQUIRED BEFORE A SHUT DOWN CAN OCCUR. A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED TO SCHEDULE FILLS. NOTE: SCHEDULING OF SHUT DOWNS WILL NOT BE ALLOWED TO OCCUR FOR DAYS IMMEDIATELY FOLLOWING HOLIDAYS OBSERVED BY THE CITY OF KIRKLAND.
15. IN GENERAL, FLUSHES ARE SCHEDULED FOR THE NEXT WORKING DAY AFTER THE NEW WATER SYSTEM IS FILLED. IT IS ASSUMED THAT THE PRESSURE TEST WILL ALSO BE PERFORMED ON THE DAY OF THE FILL. TO ADHERE TO THIS SCHEDULE, THE WATER DIVISION MUST BE NOTIFIED BY THE CITY INSPECTOR OR PROJECT MANAGER BY 1PM ON THE DAY OF THE FILL CONFIRMING THAT THE PRESSURE TEST WAS SUCCESSFUL IN ORDER TO RECEIVE THE FLUSH ON THE FOLLOWING WORKING DAY.



ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM

LEGEND

EXISTING FEATURES

- ADJACENT PLAT/PARCEL LINE
- ADJACENT RIGHT-OF-WAY
- CENTERLINE
- EASEMENT
- SURFACE FEATURES
- BUILDING FOOTPRINT
- 10' CONTOURS
- 2' CONTOURS
- SD - STORM DRAIN PIPE
- SS - SEWER MAIN
- W - WATER MAIN
- OP - AERIAL POWER LINE
- P - BURIED POWER LINE
- G - GAS MAIN
- T - BURIED TELECOMM LINE
- FO - BURIED FIBER OPTIC CABLE
- W - WIRE FENCE
- CHANNELIZATION
- EDGE OF LANDSCAPE
- TEMPORARY CONSTRUCTION EASEMENT
- RETAINING WALL
- ROCKERY
- CATCH BASIN, TYPE I
- CATCH BASIN, TYPE II
- SD PIPE FLOW
- SEWER MANHOLE
- SEWER CLEANOUT
- SS PIPE FLOW
- FIRE HYDRANT
- WATER METER
- GATE VALVE
- WATER VAULT
- IRRIGATION METER
- WATER INDICATOR POST
- IRRIGATION VALVE
- AIR-VAC

- BASKETBALL HOOP TO BE REMOVED
- BASKETBALL HOOP BASE (CONCRETE) TO BE REMOVED
- GUY ANCHOR
- UTILITY POLE W/ LIGHT
- UP W/ TRANSFORMER
- UP W/ TRANSFORMER & UNDERGROUND CONDUIT
- TRANSFORMER
- POWER METER
- JUNCTION BOX
- GAS VALVE
- TV RISER
- TELECOMM VAULT
- TELECOMM RISER
- TELECOMM JUNCTION BOX
- MAIL BOX
- SIGN
- HEDGE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- TREE TO BE REMOVED
- SHRUB TO BE REMOVED
- ASPHALT
- CONCRETE
- GRAVEL

LEGEND

PROPOSED SURFACE FEATURES

- FLOW & CURB
- CENTER LINE
- SAWCUT
- RETAINING WALL
- FENCE
- HMA PATCH
- CEMENT CONCRETE SIDEWALK
- GRAVEL
- LANDSCAPE RESTORATION
- CONIFEROUS TREE

PROPOSED WATER

- WATER MAIN
- WATER METER
- FIRE HYDRANT
- AIR/VAC RELEASE VALVE
- GATE VALVE
- VERTICAL BEND
- TEE W/ CONC BLOCKING
- BEND W/ CONC BLOCKING
- REDUCER
- SLEEVE
- COUPLING
- CROSS
- ADAPTER

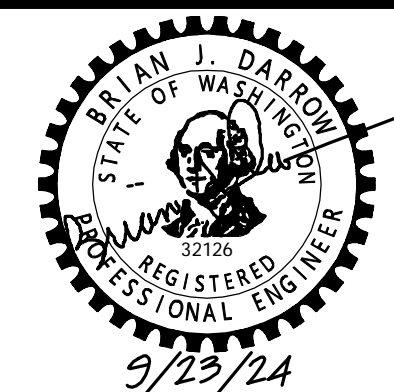
EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

ATWELL JOB # BL23-113

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



APPROVED BY: _____
DATE: _____

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

GENERAL NOTES & LEGEND

SHEET:
2 OF 19

SCALE:
AS SHOWN

FILENAME:
GN-01

Date: 23, 2024 1:10pm
 User: b.darrow
 File: BL23-113.dwg
 Plot: BL23-113.dwg
 Plot Date: 9/23/24 1:10:02 PM

EROSION/SEDIMENTATION CONTROL - PLAN NOTES

- 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 DOWNSTREAM AND AS DETERMINED BY THE CITY INSPECTOR. 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.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINANTS AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO THE MUNICIPAL STORM DRAIN SYSTEM. IF YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM, THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE PUBLIC STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED A FINE (KMC 1.12.200). THE MINIMUM PENALTY IS \$500. A FINE FOR REPEAT VIOLATION SHALL BE DETERMINED BY MULTIPLYING THE SURFACE WATER FINE BY THE NUMBER OF VIOLATIONS. A FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATION TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF YOUR PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP, AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND.
- CONSTRUCTION DETERMINING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-477-5300) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
- 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.
- 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.).
- 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.
- A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- THE LONG-TERM USE OF PLASTIC COVERING ON A SITE SHALL BE LIMITED TO ONE WET SEASON (OCTOBER 1 TO APRIL 30). AFTER THAT, THE SITE WILL BE REQUIRED TO HYDROSEED OR INSTALL OTHER TESC METHODS AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 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).
- WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
- 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.
- 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.
- 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.
- 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. RECYCLED CONCRETE SHALL NOT BE USED FOR EROSION PROTECTION, INCLUDING CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
- IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
- ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
- 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 IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPs. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 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.
- ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
- 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.

- 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.
- 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.
- IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).
- 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.
- 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.
- 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.
- RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.

ROADWAY - PLAN NOTES

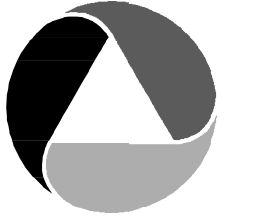
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- ALL ROADWAY WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT APWA AND CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
- THIS NOTE INTENTIONALLY DELETED.
- A COPY OF THE APPROVED ROADWAY PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- DENSITY TEST REPORTS WILL BE REQUIRED FOR ALL PUBLIC ROADWAYS AND ALL PRIVATE ROADWAYS WITHIN PLATS. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT DENSITY IN ROADWAYS, ROADWAY SHOULDERS, ROADWAY PRISM AND DRIVEWAYS, AND 85 PERCENT DENSITY IN UNPAVED AREAS. ALL PIPE ZONE COMPACTION SHALL BE 95 PERCENT.
- ALL COMMERCIAL AND RESIDENTIAL DRIVEWAYS MUST CONFORM TO THE CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS DRIVEWAY POLICY.
- ALL CONCRETE FOR SIDEWALKS AND CURB AND GUTTER MUST BE 4,000 PSI MINIMUM. (5-3/4 SACK MIX.)
- IN THE CASE OF NEW ROAD CONSTRUCTION OR RECONSTRUCTION REQUIRING MAILBOXES TO BE MOVED OR REARRANGED, THE DEVELOPER/CONTRACTOR SHALL COORDINATE WITH THE U.S. POSTAL SERVICE FOR THE NEW LOCATION OF THE MAILBOX STRUCTURE.
- ANY ROADWAY SIGNAGE OR STRIPING REMOVED OR TEMPORARILY MOVED BY THE CONTRACTOR SHALL BE RESTORED SO AS TO MEET THE CURRENT CITY OF KIRKLAND STANDARDS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL TO ENSURE TRAFFIC SAFETY DURING CONSTRUCTION ACTIVITIES. THEREFORE, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK IN THE RIGHT-OF-WAY. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) OR AS MODIFIED BY THE TRAFFIC ENGINEER.
- WHERE A SIDEWALK IS TO BE CONSTRUCTED ABOVE A SLOPE OR ADJACENT TO A ROCKERY OR RETAINING WALL WHERE THE LOWEST FINISHED ELEVATION OF THE SLOPE, ROCKERY, OR RETAINING WALL IS TO BE THIRTY INCHES (30") OR MORE BELOW THE FINISHED ELEVATION OF THE SIDEWALK, A SAFETY RAILING SHALL BE REQUIRED WHEN: (A) THE PLANE OF THE WALL FACE IS LESS THAN 4' IN HORIZONTAL DISTANCE FROM THE OUTSIDE EDGE OF THE SIDEWALK; (B) THE SLOPES ADJACENT TO THE SIDEWALK AVERAGE GREATER THAN TWO TO ONE.
- THE MAXIMUM GRADE FOR PRIVATE ROADWAYS SHALL BE TWENTY PERCENT (20%), OR FIFTEEN PERCENT (15%) IF USED FOR FIRE ACCESS. FOR PUBLIC ROADWAYS, THE MAXIMUM GRADE SHALL BE FIFTEEN PERCENT (15%).
- DEAD-END STREETS SHALL BE APPROPRIATELY SIGNED AND BARRICADED. SEE MOST CURRENT EDITION OF THE MUTCD.
- SIDEWALK AND CURB AND GUTTER CANNOT BE POURED MONOLITHICALLY. THERE MUST BE A COLD JOINT OR FULL-DEPTH EXPANSION JOINT BETWEEN THEM.
- MEASURES SHALL BE TAKEN BY THE DEVELOPER TO PROVIDE GROUND COVER IN AREAS WITHIN THE RIGHT-OF-WAY WHICH HAVE BEEN STRIPPED OF NATURAL VEGETATION OR HAVE A POTENTIAL FOR EROSION.
- THE CONTRACTOR SHALL COORDINATE WITH PUGET POWER FOR THE DESIGN AND INSTALLATION OF STREET LIGHTS ON ALL NEWLY-CREATED PUBLIC ROADWAYS AND EXISTING ROADWAYS.
- WHEN AN EXISTING ROADWAY IS TO RECEIVE A HALF-STREET OVERLAY, THE EXISTING ROADWAY MUST BE COLD PLANED AT THE EDGE OF THE GUTTER AND CENTERLINE. WHEN THE EXISTING ROADWAY IS TO RECEIVE A FULL-STREET OVERLAY, IT MUST BE COLD PLANED AT THE EDGE OF BOTH GUTTERS. SEE CITY OF KIRKLAND STANDARD DETAIL NO. R.13.
- ALL NEW SIGNS REQUIRED IN THE PUBLIC RIGHT-OF-WAY MUST BE PURCHASED FROM, AND INSTALLED BY, THE CITY OF KIRKLAND PUBLIC WORKS DEPARTMENT.
- WHEN INSTALLING NEW SIDEWALK, THE AREA BEHIND THE SIDEWALK MUST BE GRADED SO THAT THE YARD DRAINAGE DOES NOT DRAIN OVER THE SIDEWALK.
- ANY EXISTING PUBLIC IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO FINAL INSPECTION.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC STREETS FREE FROM MUD AND DEBRIS AT ALL TIMES. THE CONTRACTOR SHALL BE PREPARED TO USE POWER SWEEPERS OR OTHER PIECES OF EQUIPMENT NECESSARY TO KEEP THE ROADWAYS CLEAN.
- BACKFILL IN ALL STREET CUTS ON ARTERIALS WILL BE CONTROL DENSITY FILL (CDF). CONTRACTOR MUST PROVIDE STEEL PLATING NECESSARY TO ALLOW THE CDF TO CURE.
- WHEN CONSTRUCTING NEW CURB AND GUTTER WHICH DOES NOT ALIGN WITH THE EXISTING EDGE OF PAVEMENT, THE ROADWAY MUST BE TAPERED FROM THE ENDS OF THE NEW CURB AND GUTTER TO MATCH THE EXISTING PAVEMENT. THE ENTRY TAPER INTO THE NEW IMPROVEMENTS SHALL BE 5:1, AND LEAVING THE NEW IMPROVEMENTS SHALL BE 10:1.
- WHEN AN EXISTING ROADWAY IS TO BE WIDENED, THE EXISTING PAVEMENT MUST BE SAW CUT AT LEAST ONE FOOT FROM THE EDGE TO PROVIDE A PROPER MATCH BETWEEN NEW AND EXISTING ASPHALT. HOWEVER, WHEN THE EXISTING PAVEMENT CONTAINS ALLIGATORED AREAS, THOSE AREAS MUST BE REMOVED PRIOR TO WIDENING. ALL SAW CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE RIGHT-OF-WAY CENTERLINE.
- ALL ROCKERIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT GUIDELINES OF THE ASSOCIATION.

PSE NOTE

IF SERVICE IS DAMAGED DURING CONSTRUCTION CONTACT PSE:
 GAS SERVICES: (425) 882-4690
 POWER SERVICES: (425) 882-4449

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



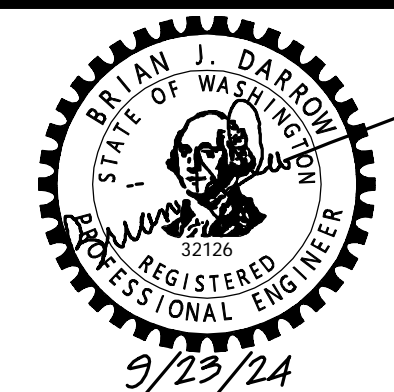
ATWELL

25 CENTRAL WAY, SUITE 400
 KIRKLAND, WA 98033
 P: 425.216.4051
 WWW.ATWELL.COM

ATWELL JOB # BL23-113

CITY OF KIRKLAND
 DEPARTMENT OF PUBLIC WORKS
 123 FIFTH AVENUE KIRKLAND, WA 98033
 (425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



APPROVED BY:

 DATE: 9/23/24

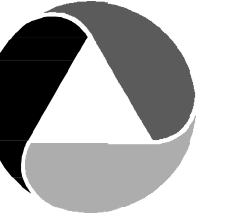
KAI POPE, EIT 9/2024
 DESIGNED BY: DATE
 CAROL DOGGETT 9/2024
 DRAWN BY: DATE
 BRIAN DARROW, PE 9/2024
 CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

GENERAL NOTES

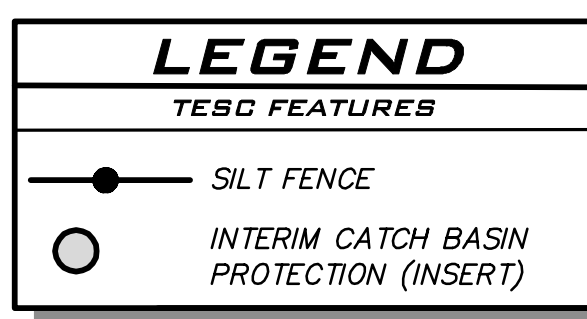
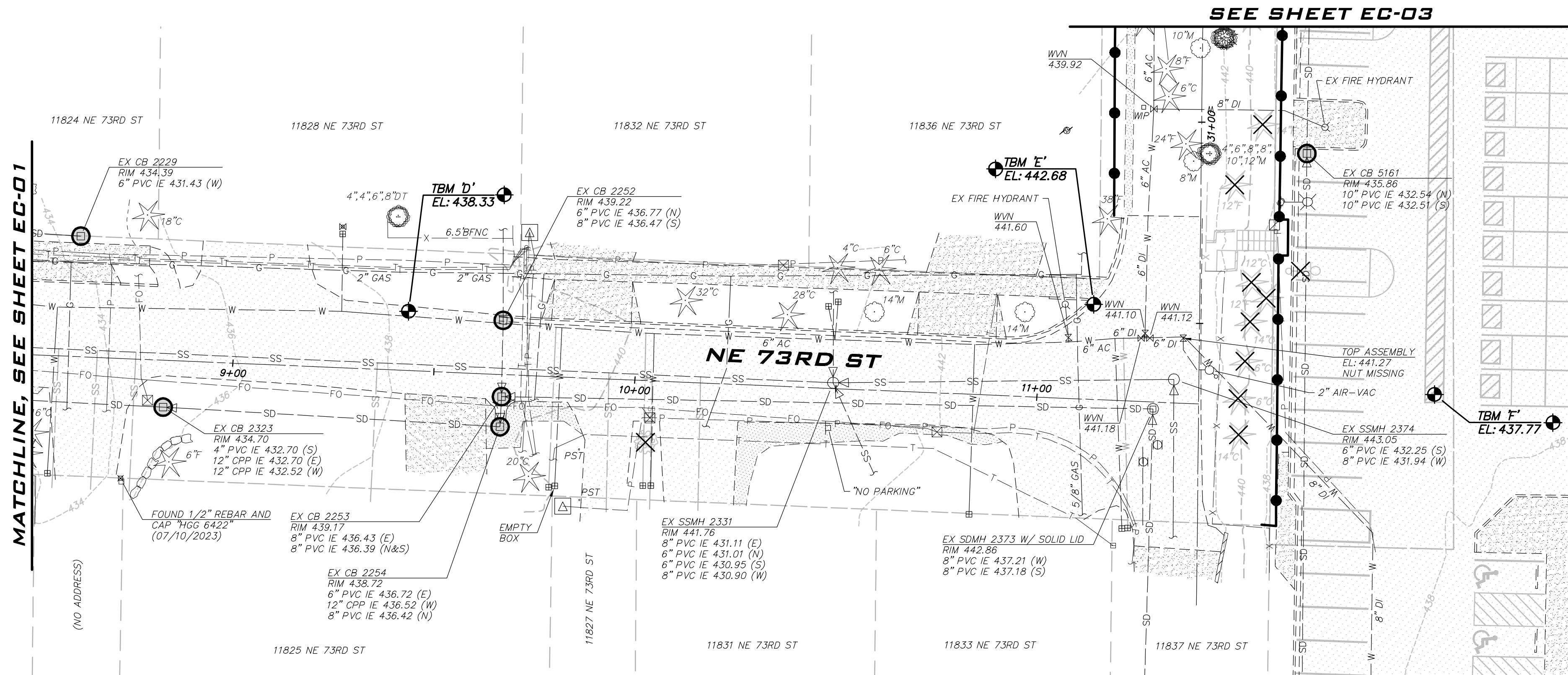
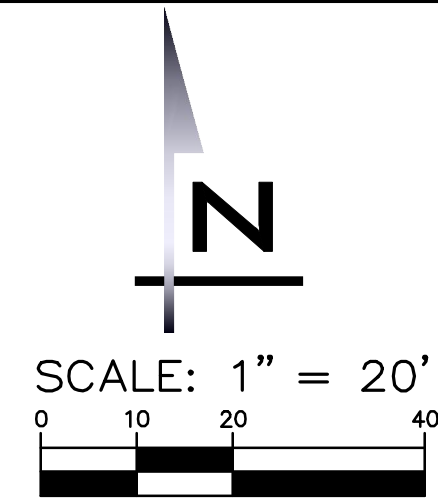
SHEET:
3 OF 19
 SCALE:
AS SHOWN
 FILENAME:
GN-02

Sep 23, 2024 1:03pm 0:06:11:09
 C:\Users\bl231131\Documents\BL23-113\0101-02.dwg



ATWELL

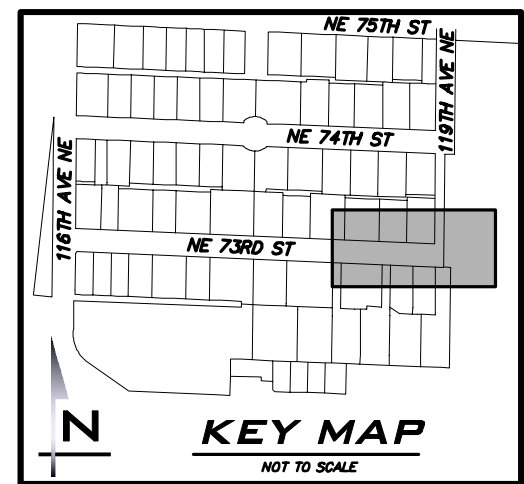
25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



- NOTES**
- SEE EROSION/SEDIMENTATION CONTROL PLAN NOTES, SHEET GN-02.
 - TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION. ROOTS SHALL BE PROTECTED OR REMOVED AS DESCRIBED IN SECTIONS 2-01, 2-02, AND 8-01 OF THE SPECIFICATIONS.
 - PRIOR TO ANY TRENCHING OR DISTURBANCE OF ANY IRRIGATION SYSTEM THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE PROPERTY OWNER TO HAVE THE EXISTING SYSTEM TURNED ON, TESTED, AND DOCUMENTED. DEFICIENCIES FOUND SHALL BE REPORTED TO THE ENGINEER PRIOR TO DISTURBANCE OF THE EXISTING SYSTEM.
 - SEE NOTES ON WA SHEETS FOR LOCATIONS TO POTHOLE PRIOR TO INSTALLING ANY WATER MAIN.

EXISTING UTILITY NOTE

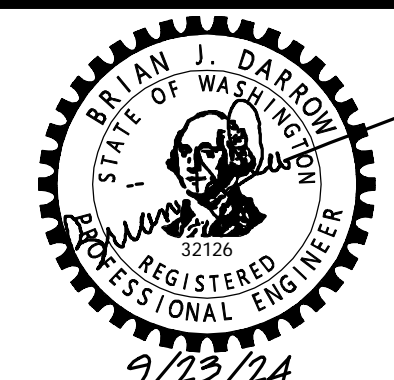
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



ATWELL JOB # BL23-113

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



APPROVED BY: _____
DATE: _____

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

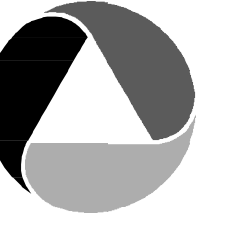
EXISTING CONDITIONS - NE 73RD ST

SHEET:
6 OF 19

SCALE:
AS SHOWN

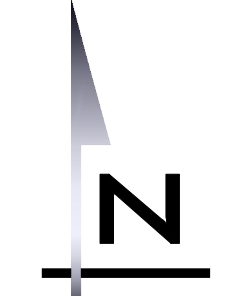
FILENAME:
EC-02

Date: 23, 2024 1:04pm 0:00:00 File: P:\Projects\2023\BL23-113\Drawings\EC-02.dwg



ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



SCALE: 1" = 20'
0 10 20 40

NOTES

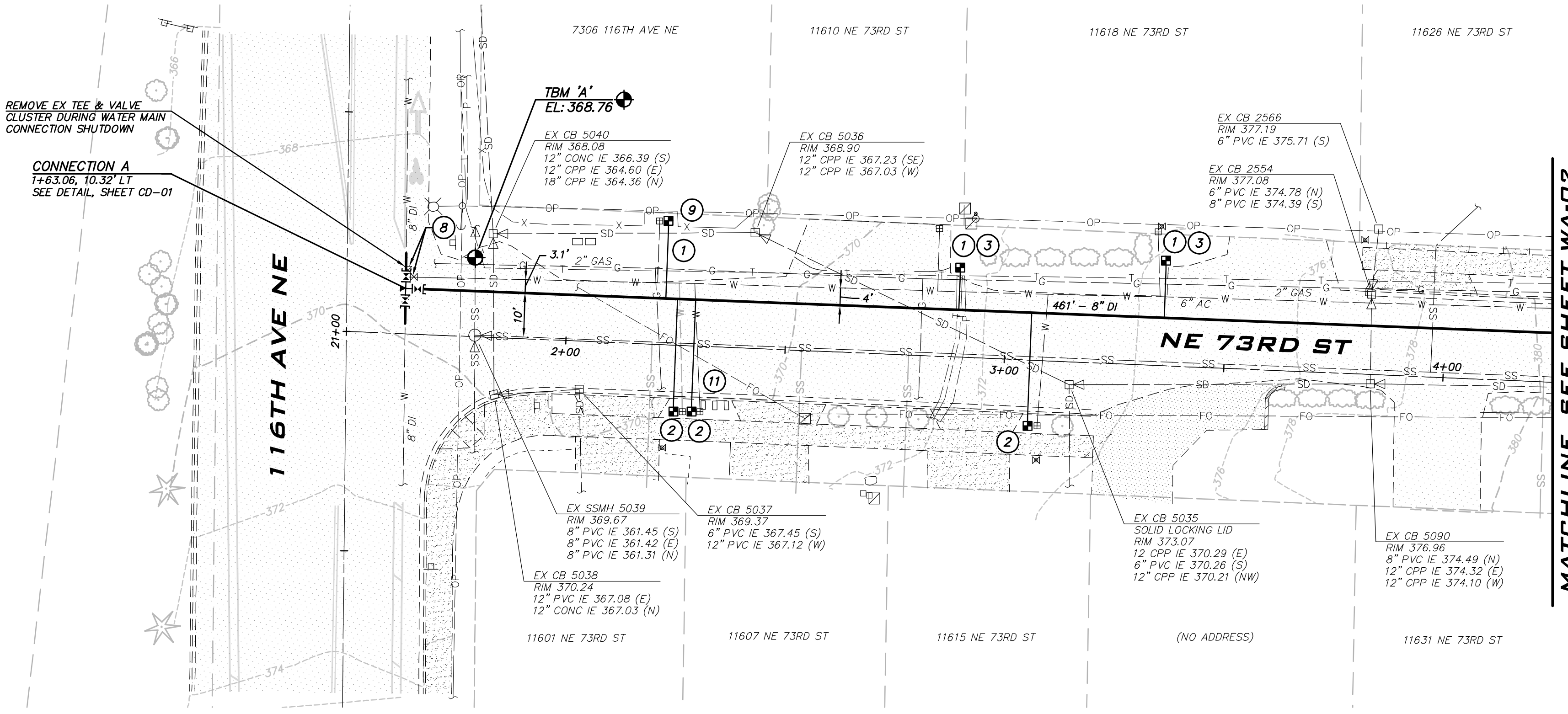
- INSTALL 1" SHORT SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
- INSTALL 1" LONG SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
- INSTALL TRAFFIC BEARING WATER METER TRAVEL BOX AND LID PER COK STD PLAN NO. CK-W.23.
- CONTRACTOR TO HAND DIG OR VACTOR EXCAVATE FOR WATER METER INSTALLATION AND BACKSIDE CONNECTION. EXERCISE CAUTION WHEN WORKING AROUND TREE ROOTS.
- CONTRACTOR TO POTHOLE TO LOCATE BACKSIDE SERVICE LINE AND MAKE BACKSIDE CONNECTION AS SHOWN. VERIFY ALIGNMENT WITH PROJECT INSPECTOR PRIOR TO POTHOLING.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANT WITHOUT USING VERTICAL BENDS.
- REMOVE EXISTING FIRE HYDRANT, VALVE CAN, AND CONCRETE PAD IF PRESENT. CAP OR PLUG THE VALVE AT THE MAIN AS DIRECTED BY THE CITY.
- ABANDON EXISTING GATE VALVE AND REMOVE EXISTING VALVE CAN. CONTRACTOR TO REMOVE VALVE OR CLOSE AND INSTALL BLIND FLANGE OR PLUG ON EXISTING VALVE AS DIRECTED BY THE CITY.
- PROTECT EXISTING FENCE. REMOVE AND REPLACE FENCE IN KIND AS NECESSARY. NOTIFY PROPERTY OWNER PRIOR TO REMOVAL.
- PROTECT ROCK LANDSCAPING. TEMPORARILY REMOVE AND REINSTALL LANDSCAPING AS NEEDED.
- PROTECT EXISTING MAILBOX.
- PROTECT EXISTING TREES, BUSHES AND/OR LANDSCAPING.
- CONTRACTOR TO POTHOLE PRIOR TO INSTALLING ANY WATER MAIN. IMMEDIATELY ALERT THE CITY TO POTHOLING RESULTS. REFER TO SP 7-09.3(6)A FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

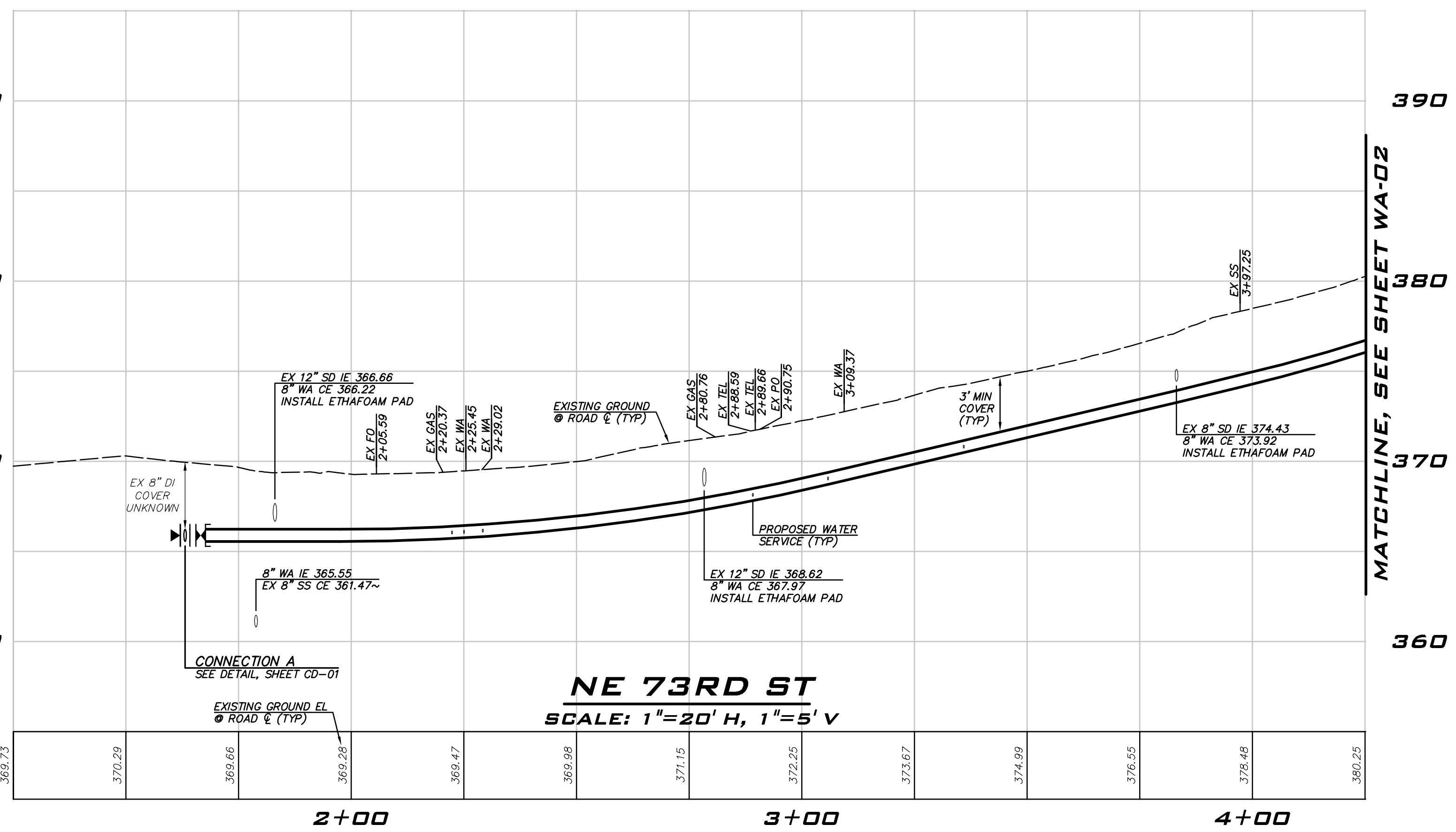
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS.
- CONTRACTOR SHALL POTHOLE EXISTING UTILITIES A MINIMUM OF 200 FEET AHEAD OF WATER MAIN CONSTRUCTION TO VERIFY DEPTHS AT CROSSINGS AND CONNECTIONS.
- COORDINATE WITH CITY TO ACCOMPLISH WATER MAIN CONNECTIONS TO EXISTING SYSTEM. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
- EXACT LOCATION OF WATER METER BOXES SHALL BE FIELD VERIFIED BY THE INSPECTOR PRIOR TO TAPPING THE WATER MAIN. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE MAIN.
- MAINTAIN 1 FOOT VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES UNLESS OTHERWISE SHOWN. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 1 FOOT.
- WHERE WATER MAIN PASSES UNDER EXISTING STORM OR SEWER, INSTALL WATER MAIN SO THAT THE PIPE ABOVE IS CENTERED BETWEEN WATER MAIN PIPE JOINTS.
- LOCATION OF EXISTING WATER MAINS AND OTHER UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE THEIR OWN POTHOLING WORK AS NECESSARY TO VERIFY ACTUAL LOCATIONS OF EXISTING WATER MAINS AND OTHER UTILITIES. CONTRACTOR SHALL MAKE ADJUSTMENTS TO DEPTH AND ALIGNMENT OF PROPOSED MAINS AS NECESSARY TO COMPLETE INSTALLATION. PAYMENT FOR CROSSING ANY EXISTING UTILITIES, INCLUDING ADJUSTMENTS TO DEPTH AND ALIGNMENT, SHALL BE INCIDENTAL TO THE WATER MAIN BID ITEMS.
- ALL POTHOLING WORK SHALL BE COMPLETED PRIOR TO ANY TRENCHING AND PIPE LAYING. CONTRACTOR SHALL POTHOLE THE EXISTING MAIN TO VERIFY THE SIZE, MATERIAL, DEPTH AND LOCATION OF THE EXISTING MAIN. FOR CONNECTIONS TO EXISTING AC WATER MAINS, CONTRACTOR IS TO POTHOLE UNTIL ROUGH BARREL AC IS EXPOSED FOR CONNECTION AND PROVIDE A MEASUREMENT OF THE OUTSIDE DIAMETER OF THE EXISTING AC PIPE TO THE PROJECT INSPECTOR. POTHOLING FOR CONNECTIONS IS PAID UNDER THE "POTHOLING OF CONNECTIONS AND UTILITY CROSSINGS" LINE ITEM IN THE CONTRACTOR'S BID.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4" DIA. AND LARGER AND/OR HIGH PRESSURE GAS MAINS. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
- PRIOR TO ANY TRENCHING OR DISTURBANCE OF ANY IRRIGATION SYSTEM THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE PROPERTY OWNER TO HAVE THE EXISTING SYSTEM TURNED ON, TESTED, AND DOCUMENTED. DEFICIENCIES FOUND SHALL BE REPORTED TO THE ENGINEER PRIOR TO DISTURBANCE OF THE EXISTING SYSTEM.
- CONTRACTOR SHALL CONNECT ALL WATER SERVICES TO THE NEW MAIN FROM CONNECTION A TO STA 6+50 ON THE SAME DAY CONNECTION A IS INSTALLED.

EXISTING UTILITY NOTE

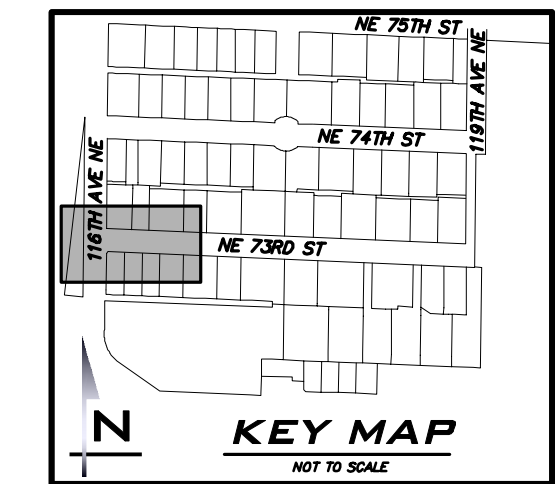
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



MATCHLINE, SEE SHEET WA-02



MATCHLINE, SEE SHEET WA-02

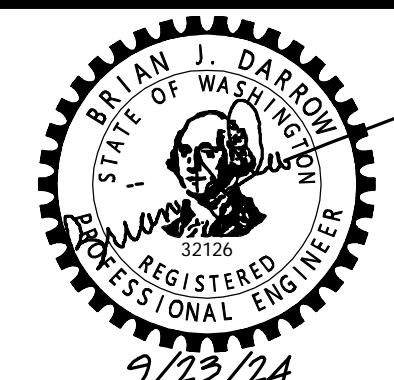


ATWELL JOB # BL23-113



CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



KAI POPE, EIT 9/2024
DESIGNED BY: DATE

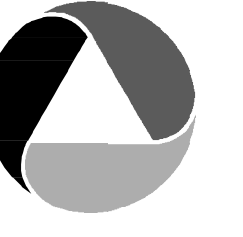
CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT
WATER PLAN - NE 73RD ST

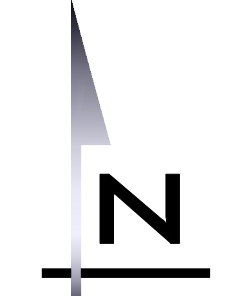
SHEET:
8 OF 19
SCALE:
AS SHOWN
FILENAME:
WA-01

09/23/24 10:56am 0.00 11/15/2024 10:56am 0.00 11/15/2024 10:56am 0.00 11/15/2024 10:56am 0.00

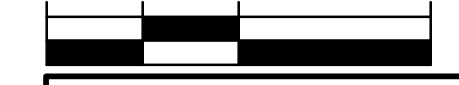


ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



SCALE: 1" = 20'



NOTES

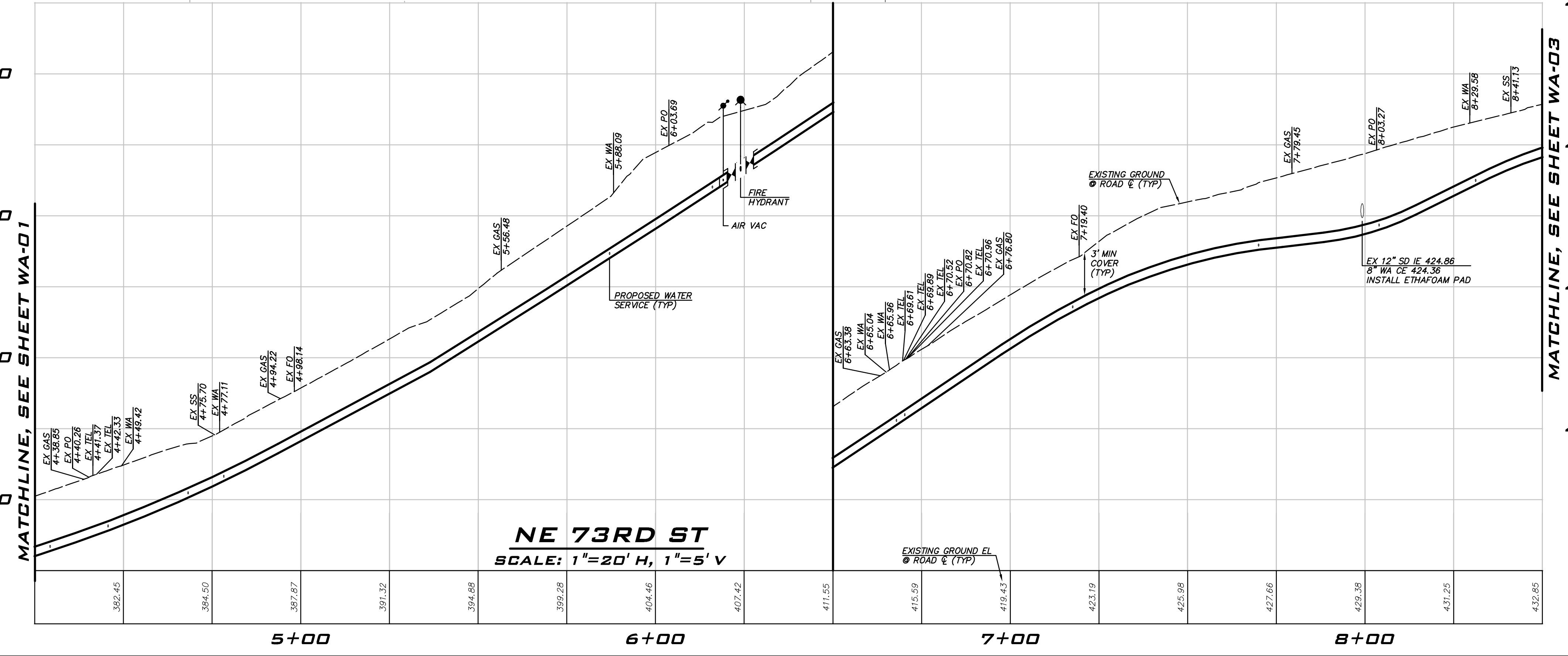
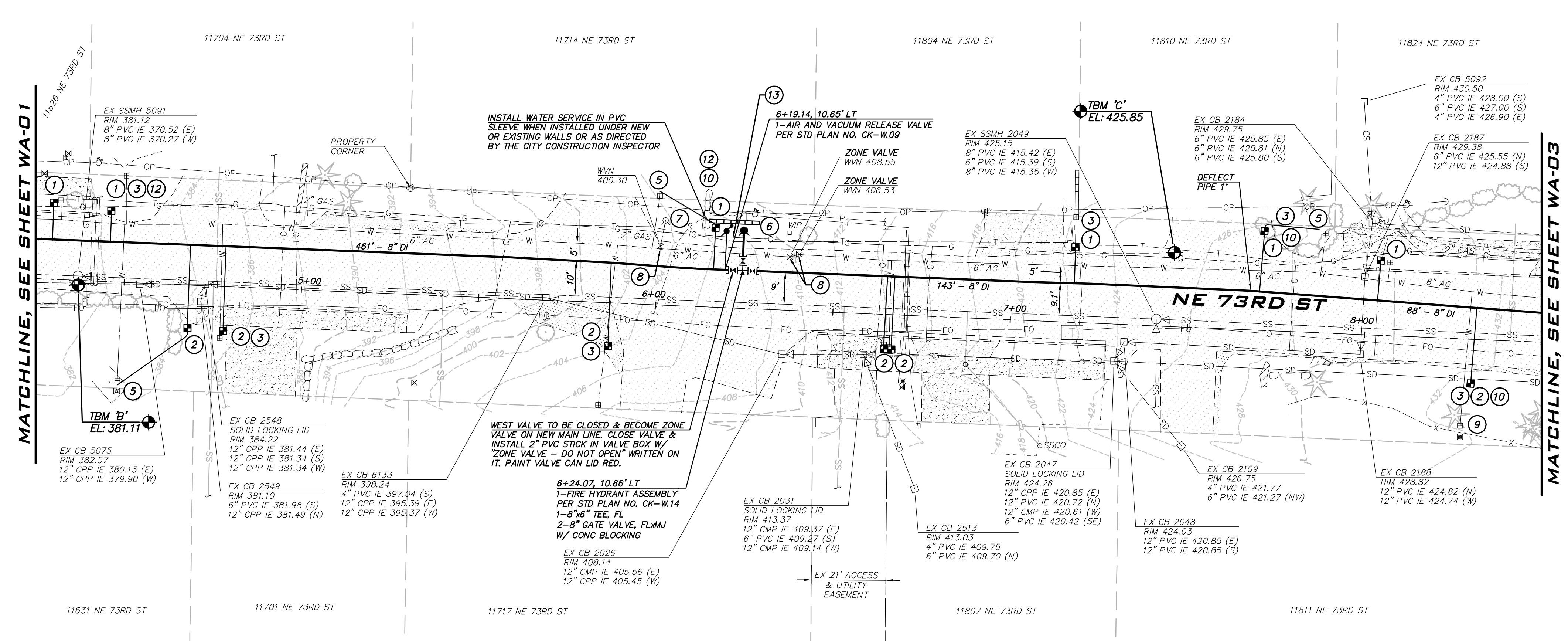
- INSTALL 1" SHORT SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
- INSTALL 1" LONG SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
- INSTALL TRAFFIC BEARING WATER METER TRAVEL BOX AND LID PER COK STD PLAN NO. CK-W.23.
- CONTRACTOR TO HAND DIG OR VACTOR EXCAVATE FOR WATER METER INSTALLATION AND BACKSIDE CONNECTION. EXERCISE CAUTION WHEN WORKING AROUND TREE ROOTS.
- CONTRACTOR TO POTHOLE TO LOCATE BACKSIDE SERVICE LINE AND MAKE BACKSIDE CONNECTION AS SHOWN. VERIFY ALIGNMENT WITH PROJECT INSPECTOR PRIOR TO POTHOLING.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANT WITHOUT USING VERTICAL BENDS.
- REMOVE EXISTING FIRE HYDRANT, VALVE CAN, AND CONCRETE PAD IF PRESENT. CAP OR PLUG THE VALVE AT THE MAIN AS DIRECTED BY THE CITY.
- ABANDON EXISTING GATE VALVE AND REMOVE EXISTING VALVE CAN. CONTRACTOR TO REMOVE VALVE OR CLOSE AND INSTALL BLIND FLANGE OR PLUG ON EXISTING VALVE AS DIRECTED BY THE CITY.
- PROTECT EXISTING FENCE. REMOVE AND REPLACE FENCE IN KIND AS NECESSARY. NOTIFY PROPERTY OWNER PRIOR TO REMOVAL.
- PROTECT ROCK LANDSCAPING. TEMPORARILY REMOVE AND REINSTALL LANDSCAPING AS NEEDED.
- PROTECT EXISTING MAILBOX.
- PROTECT EXISTING TREES, BUSHES AND/OR LANDSCAPING.
- CONTRACTOR TO POTHOLE PRIOR TO INSTALLING ANY WATER MAIN. IMMEDIATELY ALERT THE CITY TO POTHOLING RESULTS. REFER TO SP 7-09.3(6)A FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS.
- CONTRACTOR SHALL POTHOLE EXISTING UTILITIES A MINIMUM OF 200 FEET AHEAD OF WATER MAIN CONSTRUCTION TO VERIFY DEPTHS AT CROSSINGS AND CONNECTIONS.
- COORDINATE WITH CITY TO ACCOMPLISH WATER MAIN CONNECTIONS TO EXISTING SYSTEM. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
- EXACT LOCATION OF WATER METER BOXES SHALL BE FIELD VERIFIED BY THE INSPECTOR PRIOR TO TAPPING THE WATER MAIN. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE MAIN.
- MAINTAIN 1 FOOT VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES UNLESS OTHERWISE SHOWN. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 1 FOOT.
- WHERE WATER MAIN PASSES UNDER EXISTING STORM OR SEWER, INSTALL WATER MAIN SO THAT THE PIPE ABOVE IS CENTERED BETWEEN WATER MAIN PIPE JOINTS.
- LOCATION OF EXISTING WATER MAINS AND OTHER UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE THEIR OWN POTHOLING WORK AS NECESSARY TO VERIFY ACTUAL LOCATIONS OF EXISTING WATER MAINS AND OTHER UTILITIES. CONTRACTOR SHALL MAKE ADJUSTMENTS TO DEPTH AND ALIGNMENT OF PROPOSED MAINS AS NECESSARY TO COMPLETE INSTALLATION. PAYMENT FOR CROSSING ANY EXISTING UTILITIES, INCLUDING ADJUSTMENTS TO DEPTH AND ALIGNMENT, SHALL BE INCIDENTAL TO THE WATER MAIN BID ITEMS.
- ALL POTHOLING WORK SHALL BE COMPLETED PRIOR TO ANY TRENCHING AND PIPE LAYING. CONTRACTOR SHALL POTHOLE THE EXISTING MAIN TO VERIFY THE SIZE, MATERIAL, DEPTH AND LOCATION OF THE EXISTING MAIN. FOR CONNECTIONS TO EXISTING AC WATER MAINS, CONTRACTOR IS TO POTHOLE UNTIL ROUGH BARREL AC IS EXPOSED FOR CONNECTION AND PROVIDE A MEASUREMENT OF THE OUTSIDE DIAMETER OF THE EXISTING AC PIPE TO THE PROJECT INSPECTOR. POTHOLING FOR CONNECTIONS IS PAID UNDER THE "POTHOLING OF CONNECTIONS AND UTILITY CROSSINGS" LINE ITEM IN THE CONTRACTOR'S BID.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4" DIA. AND LARGER AND/OR HIGH PRESSURE GAS MAINS. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
- PRIOR TO ANY TRENCHING OR DISTURBANCE OF ANY IRRIGATION SYSTEM THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE PROPERTY OWNER TO HAVE THE EXISTING SYSTEM TURNED ON, TESTED, AND DOCUMENTED. DEFICIENCIES FOUND SHALL BE REPORTED TO THE ENGINEER PRIOR TO DISTURBANCE OF THE EXISTING SYSTEM.
- CONTRACTOR SHALL CONNECT ALL WATER SERVICES TO THE NEW MAIN FROM CONNECTION A TO STA 6+50 ON THE SAME DAY CONNECTION A IS INSTALLED.

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

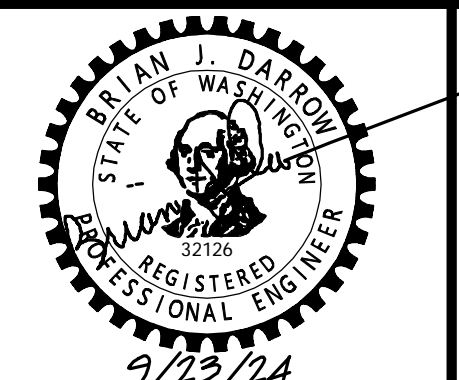


NE 73RD ST
SCALE: 1"=20' H, 1"=5' V

MATCHLINE, SEE SHEET WA-03

MATCHLINE, SEE SHEET WA-01

NO.	DATE	BY	APPR.	REVISION



KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

WATER PLAN - NE 73RD ST

SHEET: **9 OF 19**

SCALE: **AS SHOWN**

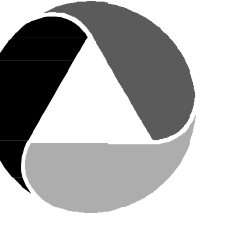
FILENAME: **WA-02**

ATWELL JOB # BL23-113

Date: 23_2024 10:56am 0:00 1:00pm 1:00pm 2:00pm 3:00pm 4:00pm 5:00pm 6:00pm 7:00pm 8:00pm 9:00pm 10:00pm 11:00pm 12:00am 1:00am 2:00am 3:00am 4:00am 5:00am 6:00am 7:00am 8:00am 9:00am 10:00am 11:00am 12:00pm 1:00pm 2:00pm 3:00pm 4:00pm 5:00pm 6:00pm 7:00pm 8:00pm 9:00pm 10:00pm 11:00pm 12:00am 1:00am 2:00am 3:00am 4:00am 5:00am 6:00am 7:00am 8:00am 9:00am 10:00am 11:00pm 12:00am

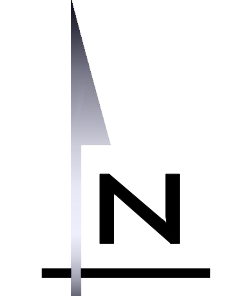


CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov



ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



SCALE: 1" = 20'

NOTES

- INSTALL 1" SHORT SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
- INSTALL 1" LONG SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
- INSTALL TRAFFIC BEARING WATER METER TRAVEL BOX AND LID PER COK STD PLAN NO. CK-W.23.
- CONTRACTOR TO HAND DIG OR VACTOR EXCAVATE FOR WATER METER INSTALLATION AND BACKSIDE CONNECTION. EXERCISE CAUTION WHEN WORKING AROUND TREE ROOTS.
- CONTRACTOR TO POTHOLE TO LOCATE BACKSIDE SERVICE LINE AND MAKE BACKSIDE CONNECTION AS SHOWN. VERIFY ALIGNMENT WITH PROJECT INSPECTOR PRIOR TO POTHOLING.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANT WITHOUT USING VERTICAL BENDS.
- REMOVE EXISTING FIRE HYDRANT, VALVE CAN, AND CONCRETE PAD IF PRESENT. CAP OR PLUG THE VALVE AT THE MAIN AS DIRECTED BY THE CITY.
- ABANDON EXISTING GATE VALVE AND REMOVE EXISTING VALVE CAN. CONTRACTOR TO REMOVE VALVE OR CLOSE AND INSTALL BLIND FLANGE OR PLUG ON EXISTING VALVE AS DIRECTED BY THE CITY.
- PROTECT EXISTING FENCE. REMOVE AND REPLACE FENCE IN KIND AS NECESSARY. NOTIFY PROPERTY OWNER PRIOR TO REMOVAL.
- PROTECT ROCK LANDSCAPING. TEMPORARILY REMOVE AND REINSTALL LANDSCAPING AS NEEDED.
- PROTECT EXISTING MAILBOX.
- PROTECT EXISTING TREES, BUSHES AND/OR LANDSCAPING.
- CONTRACTOR TO POTHOLE PRIOR TO INSTALLING ANY WATER MAIN. IMMEDIATELY ALERT THE CITY TO POTHOLING RESULTS. REFER TO SP 7-09.3(6)A FOR ADDITIONAL INFORMATION.

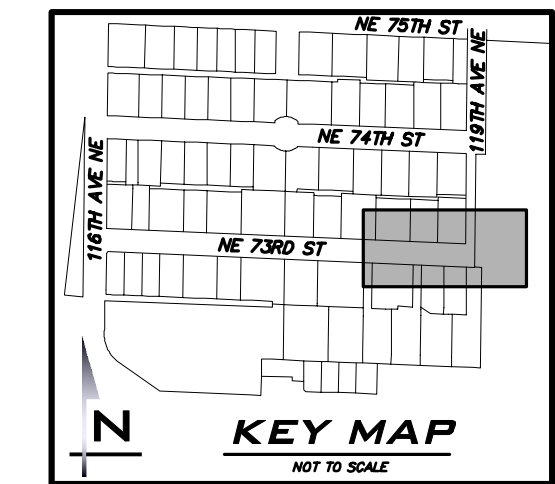
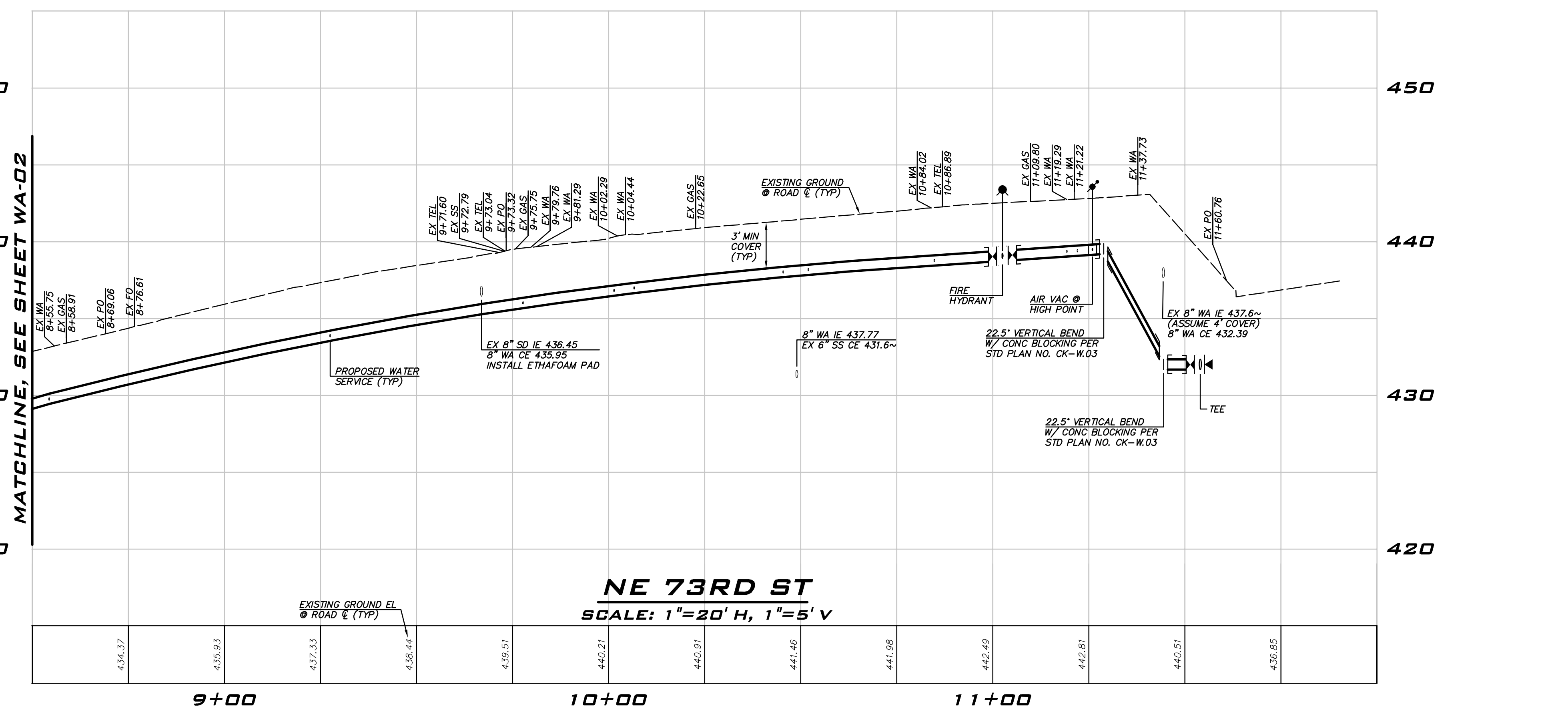
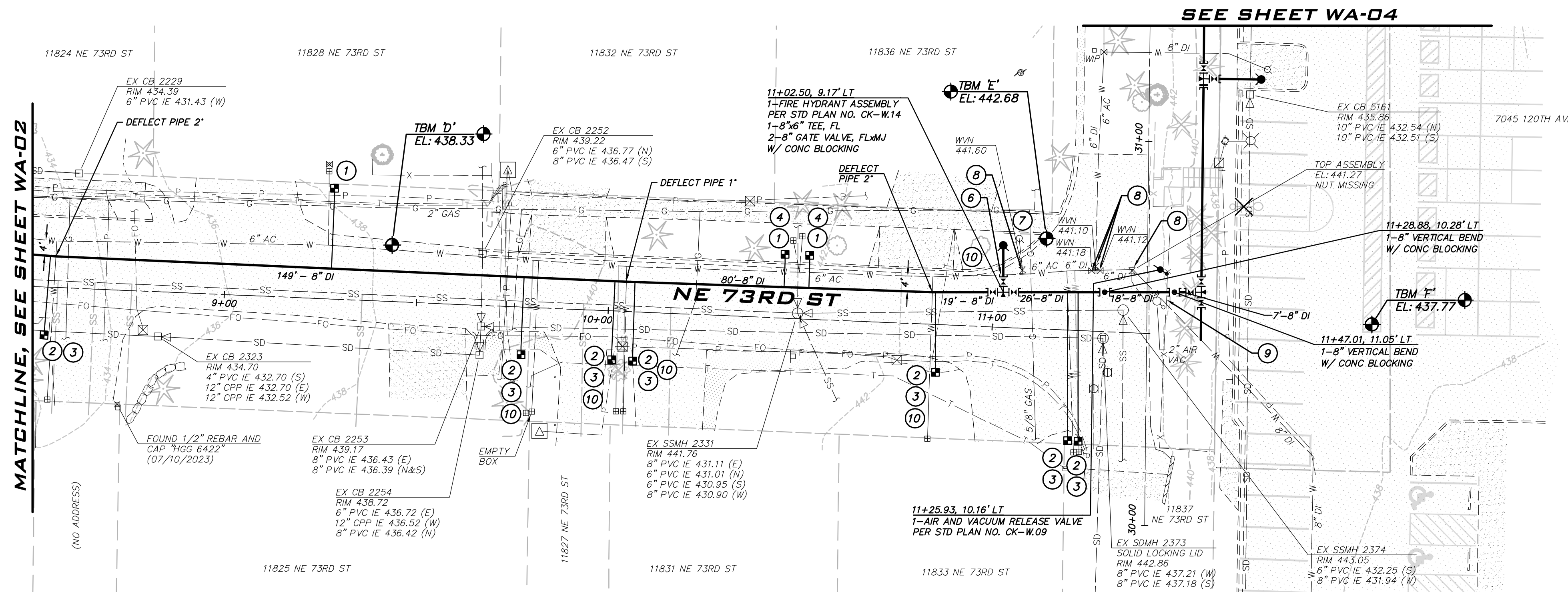
CONSTRUCTION NOTES

- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS.
- CONTRACTOR SHALL POTHOLE EXISTING UTILITIES A MINIMUM OF 200 FEET AHEAD OF WATER MAIN CONSTRUCTION TO VERIFY DEPTHS AT CROSSINGS AND CONNECTIONS.
- COORDINATE WITH CITY TO ACCOMPLISH WATER MAIN CONNECTIONS TO EXISTING SYSTEM. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
- EXACT LOCATION OF WATER METER BOXES SHALL BE FIELD VERIFIED BY THE INSPECTOR PRIOR TO TAPPING THE WATER MAIN. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE MAIN.
- MAINTAIN 1 FOOT VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES UNLESS OTHERWISE SHOWN. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 1 FOOT.
- WHERE WATER MAIN PASSES UNDER EXISTING STORM OR SEWER, INSTALL WATER MAIN SO THAT THE PIPE ABOVE IS CENTERED BETWEEN WATER MAIN PIPE JOINTS.
- LOCATION OF EXISTING WATER MAINS AND OTHER UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE THEIR OWN POTHOLING WORK AS NECESSARY TO VERIFY ACTUAL LOCATIONS OF EXISTING WATER MAINS AND OTHER UTILITIES. CONTRACTOR SHALL MAKE ADJUSTMENTS TO DEPTH AND ALIGNMENT OF PROPOSED MAINS AS NECESSARY TO COMPLETE INSTALLATION. PAYMENT FOR CROSSING ANY EXISTING UTILITIES, INCLUDING ADJUSTMENTS TO DEPTH AND ALIGNMENT, SHALL BE INCIDENTAL TO THE WATER MAIN BID ITEMS.
- ALL POTHOLING WORK SHALL BE COMPLETED PRIOR TO ANY TRENCHING AND PIPE LAYING. CONTRACTOR SHALL POTHOLE THE EXISTING MAIN TO VERIFY THE SIZE, MATERIAL, DEPTH AND LOCATION OF THE EXISTING MAIN. FOR CONNECTIONS TO EXISTING AC WATER MAINS, CONTRACTOR IS TO POTHOLE UNTIL ROUGH BARREL AC IS EXPOSED FOR CONNECTION AND PROVIDE A MEASUREMENT OF THE OUTSIDE DIAMETER OF THE EXISTING AC PIPE TO THE PROJECT INSPECTOR. POTHOLING FOR CONNECTIONS IS PAID UNDER THE "POTHOLING OF CONNECTIONS AND UTILITY CROSSINGS" LINE ITEM IN THE CONTRACTOR'S BID.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4" DIA. AND LARGER AND/OR HIGH PRESSURE GAS MAINS. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
- PRIOR TO ANY TRENCHING OR DISTURBANCE OF ANY IRRIGATION SYSTEM THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE PROPERTY OWNER TO HAVE THE EXISTING SYSTEM TURNED ON, TESTED, AND DOCUMENTED. DEFICIENCIES FOUND SHALL BE REPORTED TO THE ENGINEER PRIOR TO DISTURBANCE OF THE EXISTING SYSTEM.
- CONTRACTOR SHALL CONNECT ALL WATER SERVICES TO THE NEW MAIN FROM CONNECTION A TO STA 6+50 ON THE SAME DAY CONNECTION A IS INSTALLED.

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

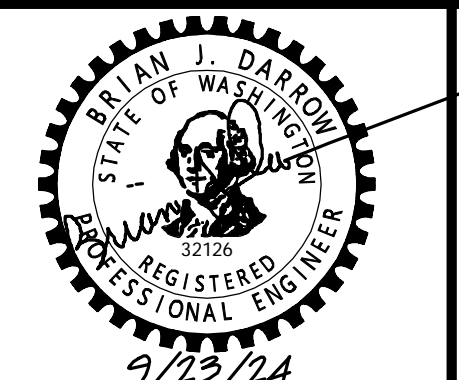
SEE SHEET WA-04



ATWELL JOB # BL23-113

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

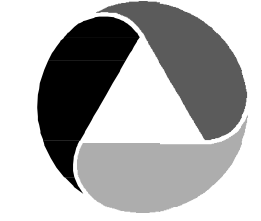
NO.	DATE	BY	APPR.	REVISION



KAI POPE, EIT	9/2024
DESIGNED BY:	DATE
CAROL DOGGETT	9/2024
DRAWN BY:	DATE
BRIAN DARROW, PE	9/2024
CHECKED BY:	DATE

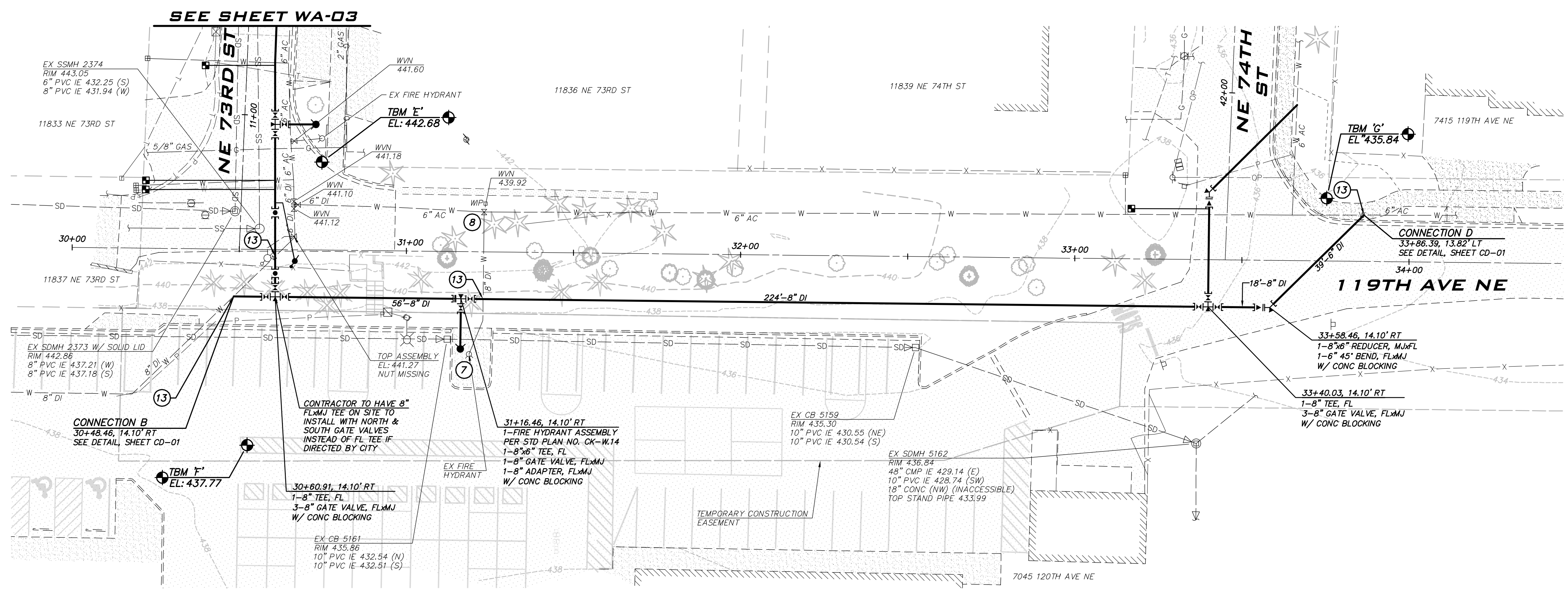
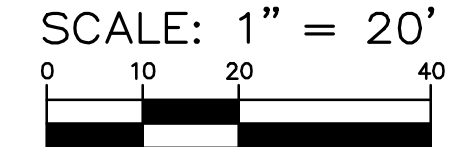
NE 73RD ST WATER MAIN IMPROVEMENT PROJECT
WATER PLAN - NE 73RD ST

SHEET:	10 OF 19
SCALE:	AS SHOWN
FILENAME:	WA-03



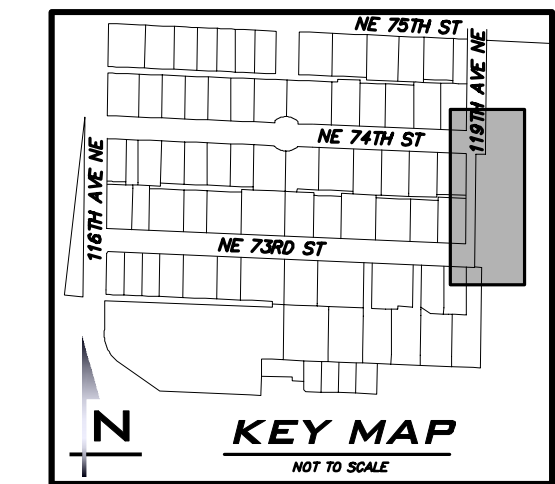
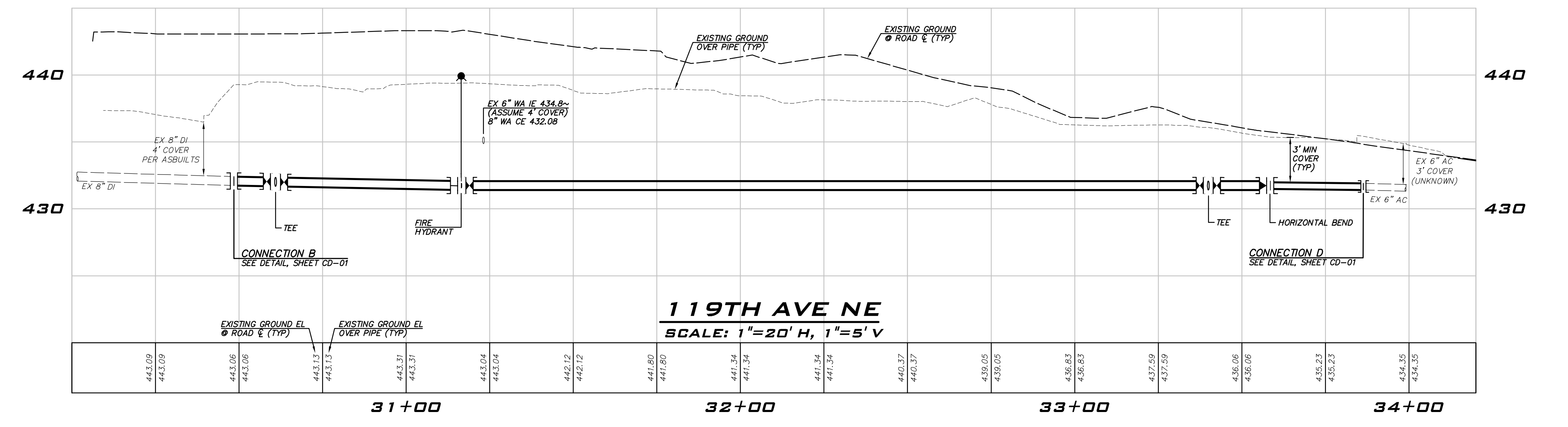
ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
 - INSTALL 1" LONG SIDE WATER SERVICE INCLUDING ADAPTER FOR 3/4" METER AS NECESSARY PER STD DETAIL CK-W.18.
 - INSTALL TRAFFIC BEARING WATER METER TRAVEL BOX AND LID PER COK STD PLAN NO. CK-W.23.
 - CONTRACTOR TO HAND DIG OR VACTOR EXCAVATE FOR WATER METER INSTALLATION AND BACKSIDE CONNECTION. EXERCISE CAUTION WHEN WORKING AROUND TREE ROOTS.
 - CONTRACTOR TO POTHOLE TO LOCATE BACKSIDE SERVICE LINE AND MAKE BACKSIDE CONNECTION AS SHOWN. VERIFY ALIGNMENT WITH PROJECT INSPECTOR PRIOR TO POTHOLING.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANT WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT, VALVE CAN, AND CONCRETE PAD IF PRESENT. CAP OR PLUG THE VALVE AT THE MAIN AS DIRECTED BY THE CITY.
 - ABANDON EXISTING GATE VALVE AND REMOVE EXISTING VALVE CAN. CONTRACTOR TO REMOVE VALVE OR CLOSE AND INSTALL BLIND FLANGE OR PLUG ON EXISTING VALVE AS DIRECTED BY THE CITY.
 - PROTECT EXISTING FENCE. REMOVE AND REPLACE FENCE IN KIND AS NECESSARY. NOTIFY PROPERTY OWNER PRIOR TO REMOVAL.
 - PROTECT ROCK LANDSCAPING. TEMPORARILY REMOVE AND REINSTALL LANDSCAPING AS NEEDED.
 - PROTECT EXISTING MAILBOX.
 - PROTECT EXISTING TREES, BUSHES AND/OR LANDSCAPING.
 - CONTRACTOR TO POTHOLE PRIOR TO INSTALLING ANY WATER MAIN. IMMEDIATELY ALERT THE CITY TO POTHOLING RESULTS. REFER TO SP 7-09.3(6)A FOR ADDITIONAL INFORMATION.

- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS.
 - CONTRACTOR SHALL POTHOLE EXISTING UTILITIES A MINIMUM OF 200 FEET AHEAD OF WATER MAIN CONSTRUCTION TO VERIFY DEPTHS AT CROSSINGS AND CONNECTIONS.
 - COORDINATE WITH CITY TO ACCOMPLISH WATER MAIN CONNECTIONS TO EXISTING SYSTEM. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - EXACT LOCATION OF WATER METER BOXES SHALL BE FIELD VERIFIED BY THE INSPECTOR PRIOR TO TAPPING THE WATER MAIN. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE MAIN.
 - MAINTAIN 1 FOOT VERTICAL SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES UNLESS OTHERWISE SHOWN. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 1 FOOT.
 - WHERE WATER MAIN PASSES UNDER EXISTING STORM OR SEWER, INSTALL WATER MAIN SO THAT THE PIPE ABOVE IS CENTERED BETWEEN WATER MAIN PIPE JOINTS.
 - LOCATION OF EXISTING WATER MAINS AND OTHER UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE THEIR OWN POTHOLING WORK AS NECESSARY TO VERIFY ACTUAL LOCATIONS OF EXISTING WATER MAINS AND OTHER UTILITIES. CONTRACTOR SHALL MAKE ADJUSTMENTS TO DEPTH AND ALIGNMENT OF PROPOSED MAINS AS NECESSARY TO COMPLETE INSTALLATION. PAYMENT FOR CROSSING ANY EXISTING UTILITIES, INCLUDING ADJUSTMENTS TO DEPTH AND ALIGNMENT, SHALL BE INCIDENTAL TO THE WATER MAIN BID ITEMS.
 - ALL POTHOLING WORK SHALL BE COMPLETED PRIOR TO ANY TRENCHING AND PIPE LAYING. CONTRACTOR SHALL POTHOLE THE EXISTING MAIN TO VERIFY THE SIZE, MATERIAL, DEPTH AND LOCATION OF THE EXISTING MAIN. FOR CONNECTIONS TO EXISTING AC WATER MAINS, CONTRACTOR IS TO POTHOLE UNTIL ROUGH BARREL AC IS EXPOSED FOR CONNECTION AND PROVIDE A MEASUREMENT OF THE OUTSIDE DIAMETER OF THE EXISTING AC PIPE TO THE PROJECT INSPECTOR. POTHOLING FOR CONNECTIONS IS PAID UNDER THE "POTHOLING OF CONNECTIONS AND UTILITY CROSSINGS" LINE ITEM IN THE CONTRACTOR'S BID.
 - CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4" DIA. AND LARGER AND/OR HIGH PRESSURE GAS MAINS. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
 - PRIOR TO ANY TRENCHING OR DISTURBANCE OF ANY IRRIGATION SYSTEM THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE PROPERTY OWNER TO HAVE THE EXISTING SYSTEM TURNED ON, TESTED, AND DOCUMENTED. DEFICIENCIES FOUND SHALL BE REPORTED TO THE ENGINEER PRIOR TO DISTURBANCE OF THE EXISTING SYSTEM.
 - CONTRACTOR SHALL CONNECT ALL WATER SERVICES TO THE NEW MAIN FROM CONNECTION A TO STA 6+50 ON THE SAME DAY CONNECTION A IS INSTALLED.



EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

ATWELL JOB # BL23-113

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



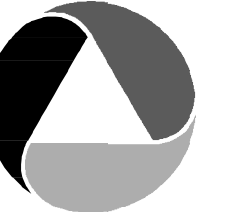
KAI POPE, EIT	9/2024
DESIGNED BY:	DATE
CAROL DOGGETT	9/2024
DRAWN BY:	DATE
BRIAN DARROW, PE	9/2024
CHECKED BY:	DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

WATER PLAN - 119TH AVE NE

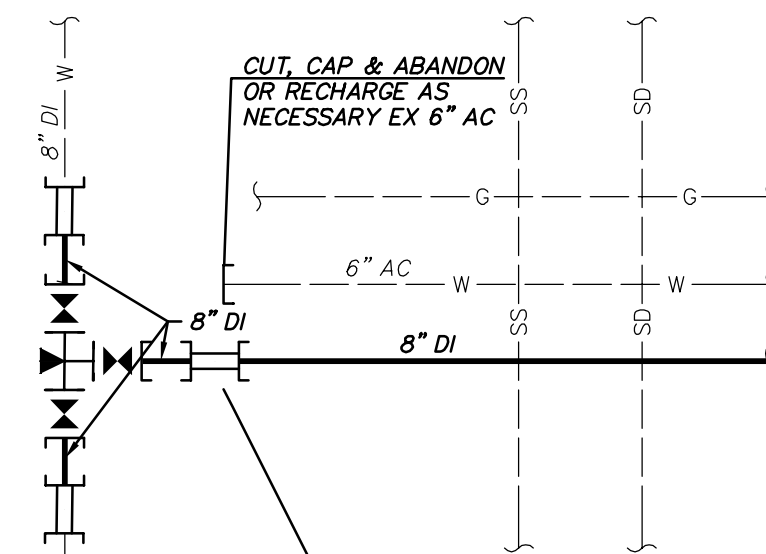
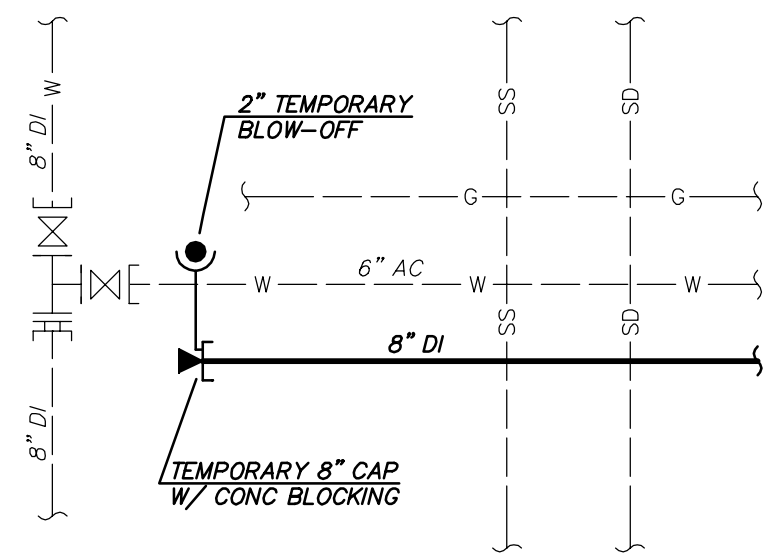
SHEET: **11 OF 19**
SCALE: **AS SHOWN**
FILENAME: **WA-04**

09/23/24 10:09am 0:00 119th Ave NE Water Main Improvement Project - 119th Ave NE.dwg



ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



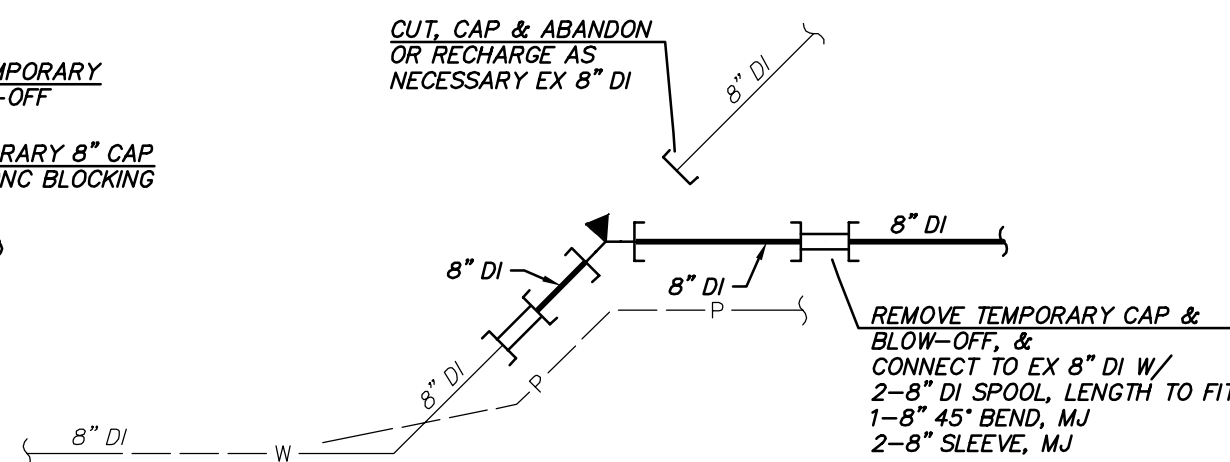
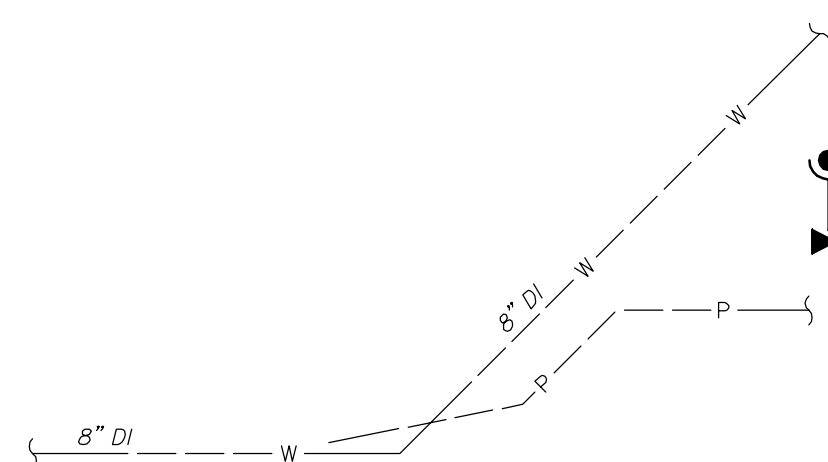
REMOVE TEMPORARY CAP & BLOW-OFF, & EX TEE & VALVES, & CONNECT TO EX 8" DI W/
1-8" TEE, FL
3-8" GATE VALVE, FL & MJ
3-8" DI SPOOL, LENGTH TO FIT
3-8" SLEEVE, MJ
W/ CONC BLOCKING

TESTING CONNECTION

FINAL CONNECTION

CONNECTION A

NOT TO SCALE
(SEE SHEET WA-01)



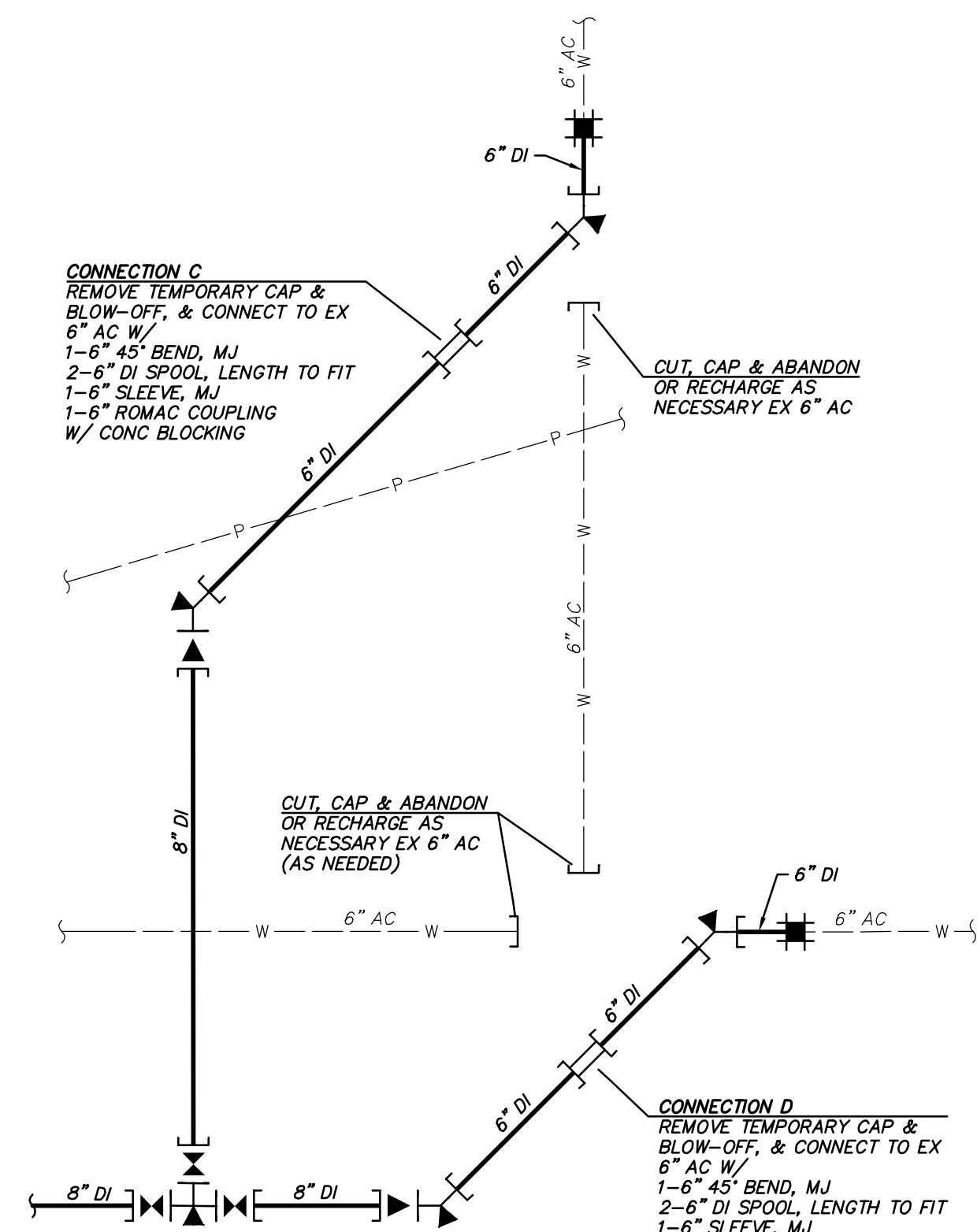
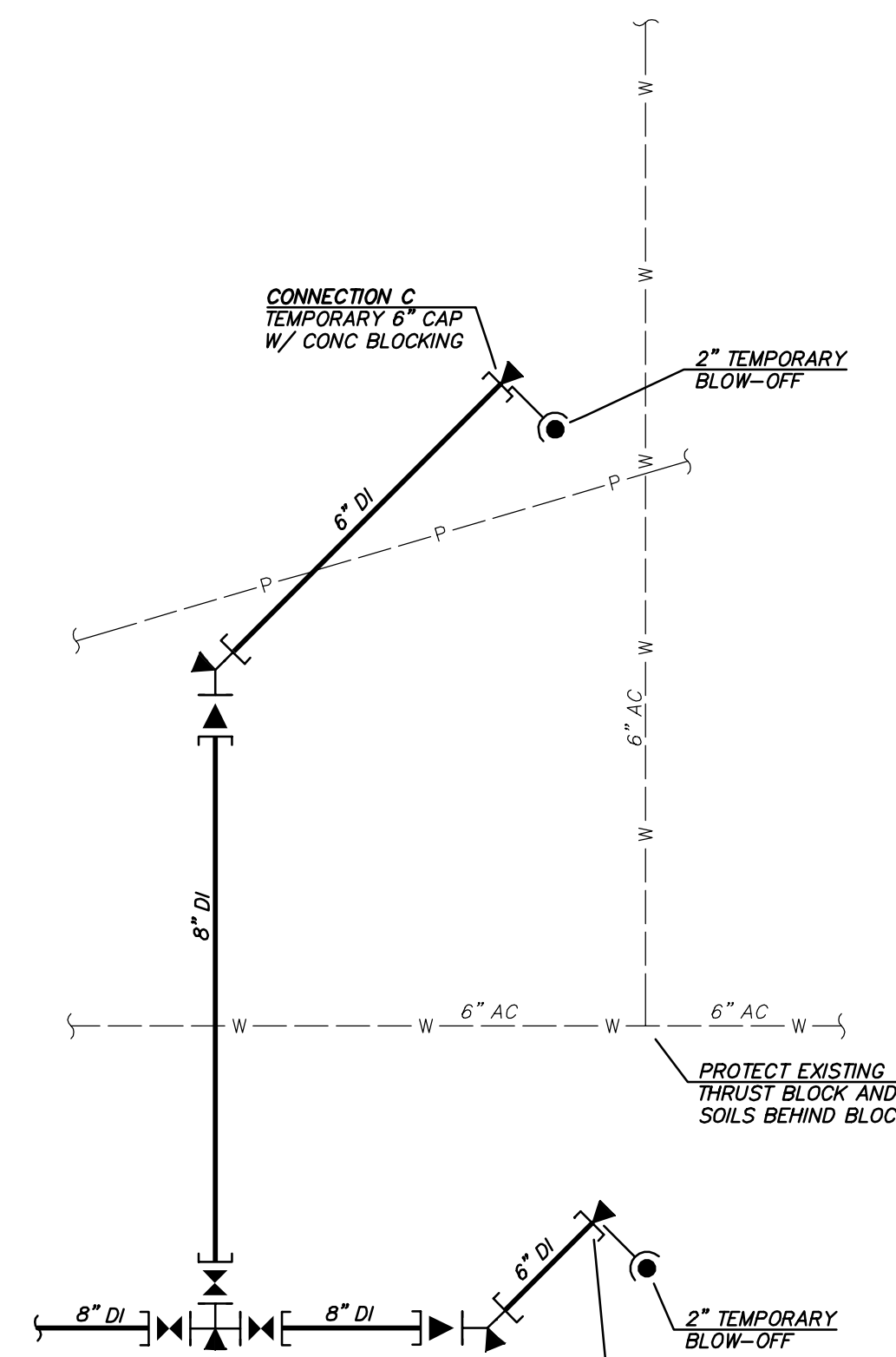
REMOVE TEMPORARY CAP & BLOW-OFF, & CONNECT TO EX 8" DI W/
2-8" DI SPOOL, LENGTH TO FIT
1-8" 45° BEND, MJ
2-8" SLEEVE, MJ

TESTING CONNECTION

FINAL CONNECTION

CONNECTION B

NOT TO SCALE
(SEE SHEET WA-04)



REMOVE TEMPORARY CAP & BLOW-OFF, & CONNECT TO EX 6" AC W/
1-6" 45° BEND, MJ
2-6" DI SPOOL, LENGTH TO FIT
1-6" SLEEVE, MJ
1-6" ROMAC COUPLING
W/ CONC BLOCKING

CUT, CAP & ABANDON OR RECHARGE AS NECESSARY EX 6" AC (AS NEEDED)

REMOVE TEMPORARY CAP & BLOW-OFF, & CONNECT TO EX 6" AC W/
1-6" 45° BEND, MJ
2-6" DI SPOOL, LENGTH TO FIT
1-6" SLEEVE, MJ
1-6" ROMAC COUPLING
W/ CONC BLOCKING

CONNECTION D
TEMPORARY 6" CAP
W/ CONC BLOCKING

TESTING CONNECTION

FINAL CONNECTION

CONNECTIONS C & D

NOT TO SCALE
(SEE SHEETS WA-04 & WA-05)

NO.	DATE	BY	APPR.	REVISION



APPROVED BY:

DATE:

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

CONNECTION DETAILS

SHEET:
13 OF 19

SCALE:
AS SHOWN

FILENAME:
CD-01

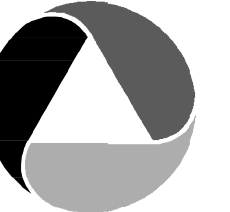
ATWELL JOB # BL23-113

CITY OF KIRKLAND

DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

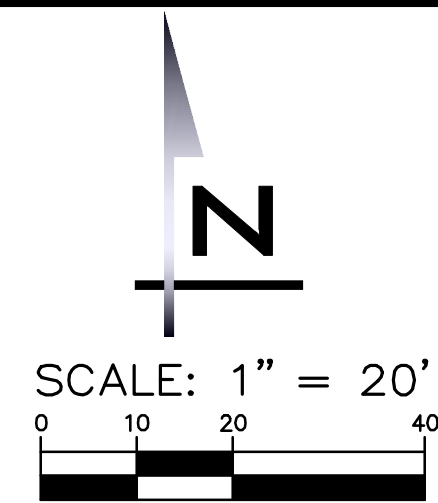


9/23/24 10:07am 0.00 11/15/2024 10:07am 0.00 11/15/2024 10:07am 0.00



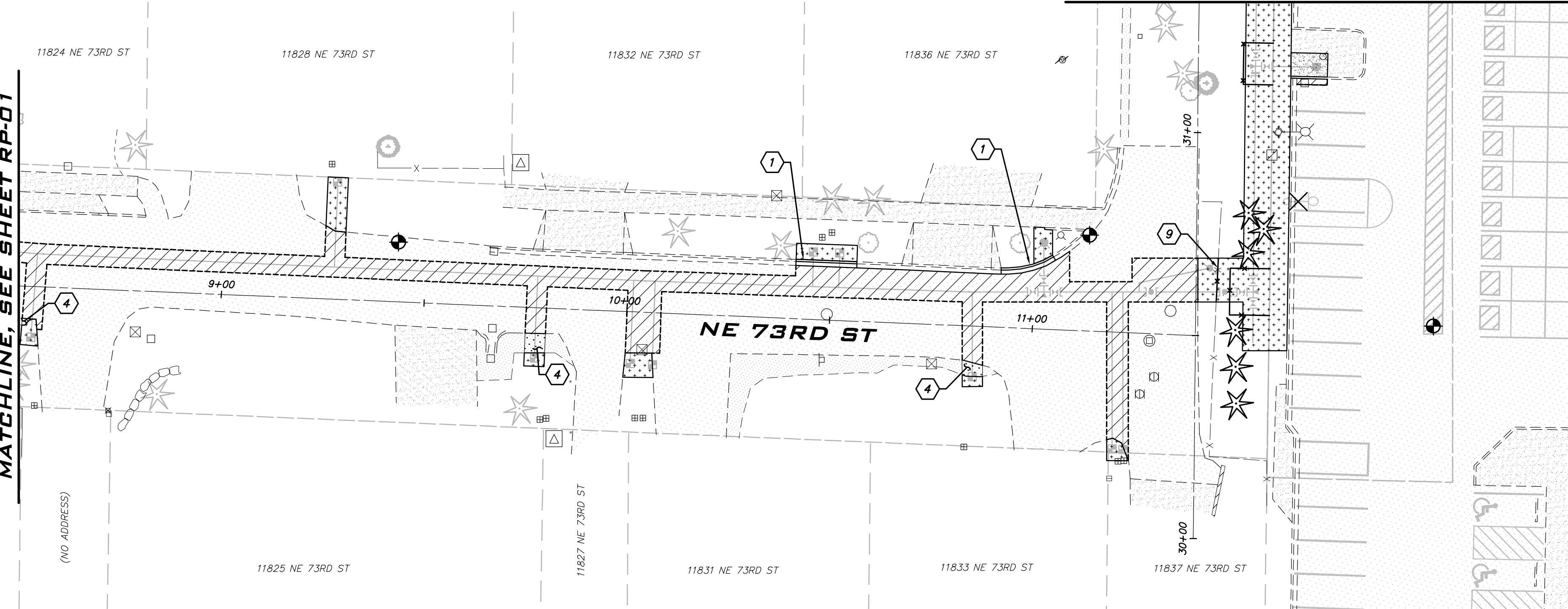
ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



SEE SHEET RP-03

MATCHLINE, SEE SHEET RP-01



NOTES

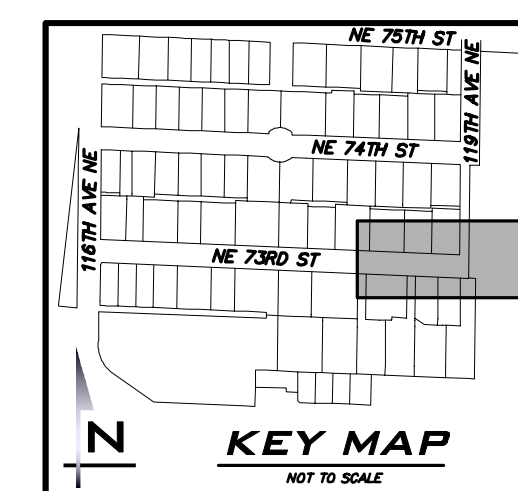
- 1 CEMENT CONCRETE CURB & GUTTER TYPE A PER COK STD PLAN CK-R.17. REPLACE TO THE NEAREST JOINT. MINIMUM 2" WIDE HMA PATCH.
- 2 CEMENT CONCRETE SIDEWALK PER COK STD PLAN CK-R.23. REPLACE TO THE NEAREST JOINT.
- 3 CEMENT CONCRETE CURB TYPE E-2 PER COK STD PLAN CK-R.18. REPLACE TO THE NEAREST JOINT. CURB TO BE PAINTED TO MATCH ORIGINAL CONDITIONS. CONTRACTOR TO VERIFY & RECORD EXISTING PAINT MARKINGS PRIOR TO REMOVAL.
- 4 REPLACE EXISTING GRAVEL TO ORIGINAL CONDITION.
- 5 REPLACE STORM MANHOLE CASTING PER COK STD PLAN CK-D.18.A.
- 6 ADJUST EXISTING CATCH BASIN OR MANHOLE TO GRADE PER COK STD PLAN CK-D.11.
- 7 RESTORE PAVEMENT MARKINGS IN ORIGINAL LOCATION. CONTRACTOR TO FIELD VERIFY & RECORD ORIGINAL TYPE AND LOCATION OF MARKINGS PRIOR TO REMOVAL.
- 8 INSTALL GRAVITY BLOCK WALL PER DETAIL SHOWN ON SHEET DT-03. INSTALL UNDERDRAIN DAYLIGHT AT END OF WALL IF DIRECTED BY CITY INSPECTOR. CITY INSPECTOR TO DETERMINE HEIGHT OF WALL REQUIRED IN THE FIELD.
- 9 PROTECT EXISTING FENCE. REMOVE AND REPLACE FENCE PER COK STD PLAN CK-R.51A ONLY AS NECESSARY TO INSTALL IMPROVEMENTS. IF APPLICABLE, NOTIFY PROPERTY OWNER PRIOR TO REMOVAL.
- 10 INSTALL 5' TALL BLACK CHAIN LINK FENCE PER COK STD PLAN CK-5.51A. FENCE SHALL HAVE BLACK SLATS INSTALLED. ALIGN EASTERN POSTS FOR FUTURE FENCE INSTALLATION.
- 11 TREE TO BE REPLACED IN KIND. CITY FIELD INSPECTOR TO DETERMINE FINAL LOCATION.

RESTORATION NOTES

1. THE LOCATION OF THE PAVEMENT RESTORATION SHOWN IS APPROXIMATE ONLY AND THE EXACT LOCATION SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION INSPECTOR DURING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR BARRICADES AND SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE VEHICLES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.
3. ADJUST ALL NEW AND EXISTING CASTINGS WITHIN ASPHALT PATCHES TO GRADE PER CITY STANDARD DETAILS.
4. CONTRACTOR TO SAWCUT TRENCHES PRIOR TO EXCAVATION. MAKE SEPARATE SAWCUT MIN. 1' WIDTH PATCHING ALONG TRENCH PER COK STD PLAN CK-R.12.
5. LIMIT IMPACTS TO LANDSCAPING. RESTORATION LIMITS SHOWN ARE APPROXIMATE AND WILL BE INCREASED TO CAPTURE ALL LOCATIONS IMPACTED BY CONTRACTOR ACTIVITY. RESTORE DISTURBED VEGETATIVE AREAS AND GRADE SLOPE TO MATCH ADJACENT SLOPE. PLACE MINIMUM 2" TOPSOIL AND SEED UNLESS OTHERWISE NOTED ON THE PROJECT PLANS.
6. CONTRACTOR TO STAKE THE WEST PROPERTY LINE OF THE HOLY FAMILY CHURCH AFTER RESTORATION HAS BEEN COMPLETED. REFER TO SP 1-05.4(1) FOR ADDITIONAL INFORMATION.

LEGEND

- HMA PATCH PLACED IN MAX 3" LIFTS OVER 4" CSTC COMPACTED TO 95% HMA THICKNESS PER COK STD PLAN CK-R.12.
- CEMENT CONCRETE SIDEWALK OVER 4" CSTC
- GRAVEL
- LANDSCAPE RESTORATION



ATWELL JOB # BL23-113



CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



APPROVED BY:

DATE:

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN
IMPROVEMENT PROJECT
RESTORATION PLAN -
NE 73RD ST

SHEET:

15 OF 19

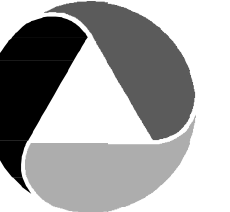
SCALE:

AS SHOWN

FILENAME:

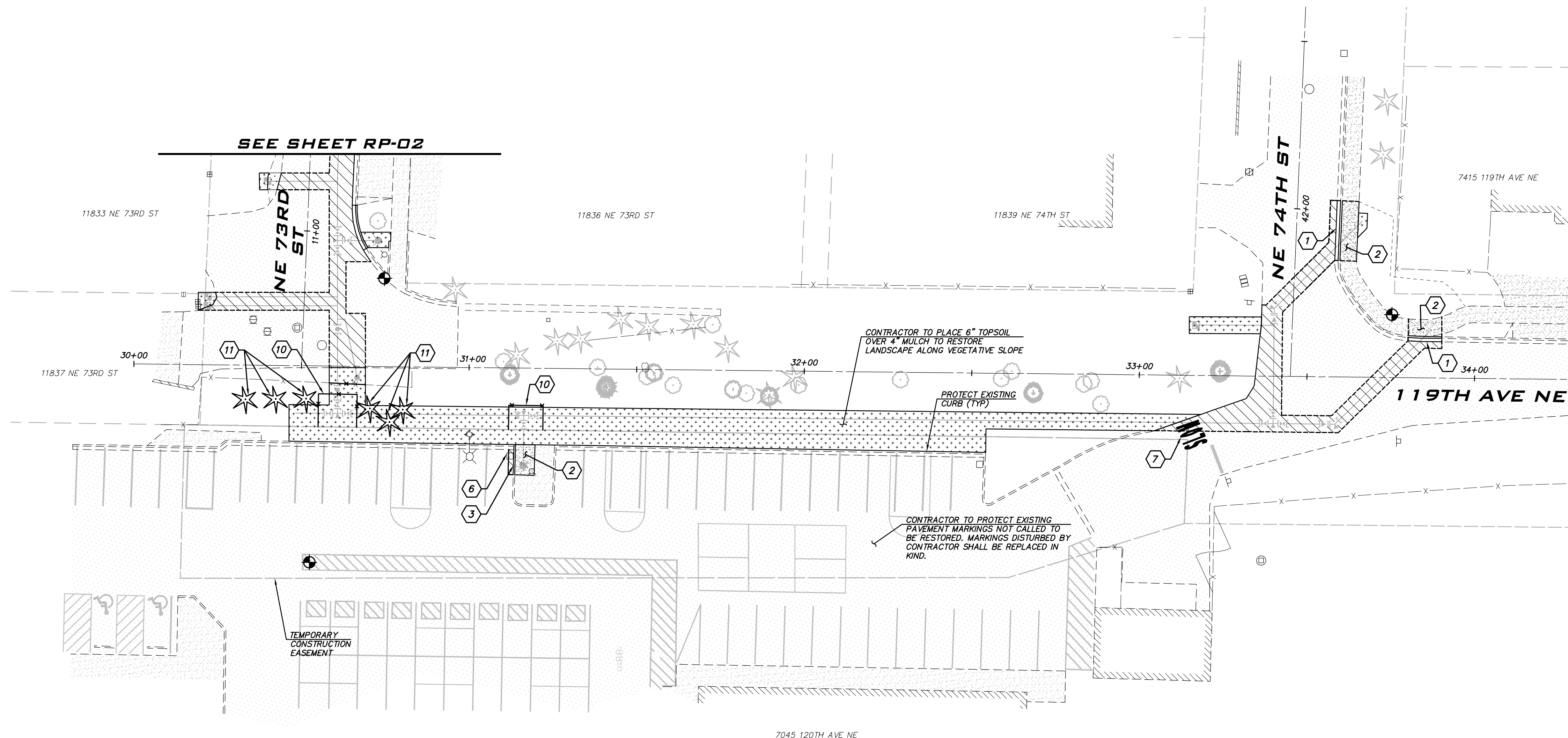
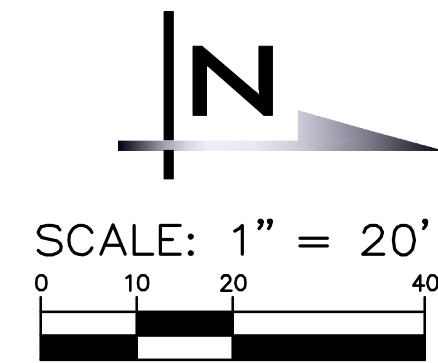
RP-02

S:\23_2024\10966_06\10966_06.dwg 9/23/24 10:02 AM



ATWELL

25 CENTRAL WAY, SUITE 400
KIRKLAND, WA 98033
P: 425.216.4051
WWW.ATWELL.COM



NOTES

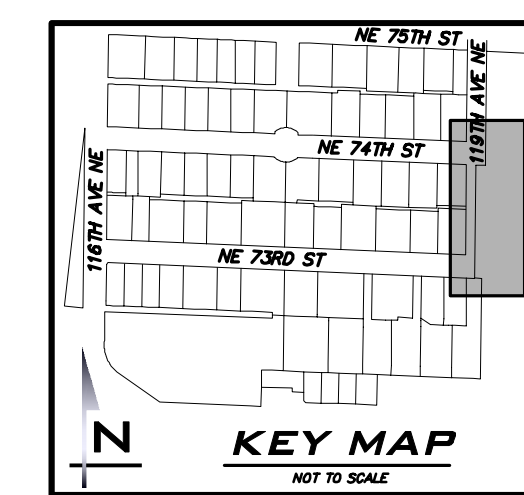
- 1 CEMENT CONCRETE CURB & GUTTER TYPE A PER COK STD PLAN CK-R.17. REPLACE TO THE NEAREST JOINT. MINIMUM 2" WIDE HMA PATCH.
- 2 CEMENT CONCRETE SIDEWALK PER COK STD PLAN CK-R.23. REPLACE TO THE NEAREST JOINT.
- 3 CEMENT CONCRETE CURB TYPE E-2 PER COK STD PLAN CK-R.18. REPLACE TO THE NEAREST JOINT. CURB TO BE PAINTED TO MATCH ORIGINAL CONDITIONS. CONTRACTOR TO VERIFY & RECORD EXISTING PAINT MARKINGS PRIOR TO REMOVAL.
- 4 REPLACE EXISTING GRAVEL TO ORIGINAL CONDITION.
- 5 REPLACE STORM MANHOLE CASTING PER COK STD PLAN CK-D.18.A.
- 6 ADJUST EXISTING CATCH BASIN OR MANHOLE TO GRADE PER COK STD PLAN CK-D.11.
- 7 RESTORE PAVEMENT MARKINGS IN ORIGINAL LOCATION. CONTRACTOR TO FIELD VERIFY & RECORD ORIGINAL TYPE AND LOCATION OF MARKINGS PRIOR TO REMOVAL.
- 8 INSTALL GRAVITY BLOCK WALL PER DETAIL SHOWN ON SHEET DT-03. INSTALL UNDERDRAIN DAYLIGHT AT END OF WALL IF DIRECTED BY CITY INSPECTOR. CITY INSPECTOR TO DETERMINE HEIGHT OF WALL REQUIRED IN THE FIELD.
- 9 PROTECT EXISTING FENCE. REMOVE AND REPLACE FENCE PER COK STD PLAN CK-R.51A ONLY AS NECESSARY TO INSTALL IMPROVEMENTS. IF APPLICABLE, NOTIFY PROPERTY OWNER PRIOR TO REMOVAL.
- 10 INSTALL 5' TALL BLACK CHAIN LINK FENCE PER COK STD PLAN CK-5.51A. FENCE SHALL HAVE BLACK SLATS INSTALLED. ALIGN EASTERN POSTS FOR FUTURE FENCE INSTALLATION.
- 11 TREE TO BE REPLACED IN KIND. CITY FIELD INSPECTOR TO DETERMINE FINAL LOCATION.

RESTORATION NOTES

- 1. THE LOCATION OF THE PAVEMENT RESTORATION SHOWN IS APPROXIMATE ONLY AND THE EXACT LOCATION SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION INSPECTOR DURING CONSTRUCTION.
- 2. CONTRACTOR IS RESPONSIBLE FOR BARRICADES AND SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE VEHICLES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.
- 3. ADJUST ALL NEW AND EXISTING CASTINGS WITHIN ASPHALT PATCHES TO GRADE PER CITY STANDARD DETAILS.
- 4. CONTRACTOR TO SAWCUT TRENCHES PRIOR TO EXCAVATION. MAKE SEPARATE SAWCUT MIN. 1' WIDTH PATCHING ALONG TRENCH PER COK STD PLAN CK-R.12.
- 5. LIMIT IMPACTS TO LANDSCAPING. RESTORATION LIMITS SHOWN ARE APPROXIMATE AND WILL BE INCREASED TO CAPTURE ALL LOCATIONS IMPACTED BY CONTRACTOR ACTIVITY. RESTORE DISTURBED VEGETATIVE AREAS AND GRADE SLOPE TO MATCH ADJACENT SLOPE. PLACE MINIMUM 2" TOPSOIL AND SEED UNLESS OTHERWISE NOTED ON THE PROJECT PLANS.
- 6. CONTRACTOR TO STAKE THE WEST PROPERTY LINE OF THE HOLY FAMILY CHURCH AFTER RESTORATION HAS BEEN COMPLETED. REFER TO SP 1-05.4(1) FOR ADDITIONAL INFORMATION.

LEGEND

- HMA PATCH PLACED IN MAX 3" LIFTS OVER 4" CSTC COMPACTED TO 95% HMA THICKNESS PER COK STD PLAN CK-R.12.
- CEMENT CONCRETE SIDEWALK OVER 4" CSTC
- GRAVEL
- LANDSCAPE RESTORATION



ATWELL JOB # BL23-113



CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION



APPROVED BY: _____
DATE: _____

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

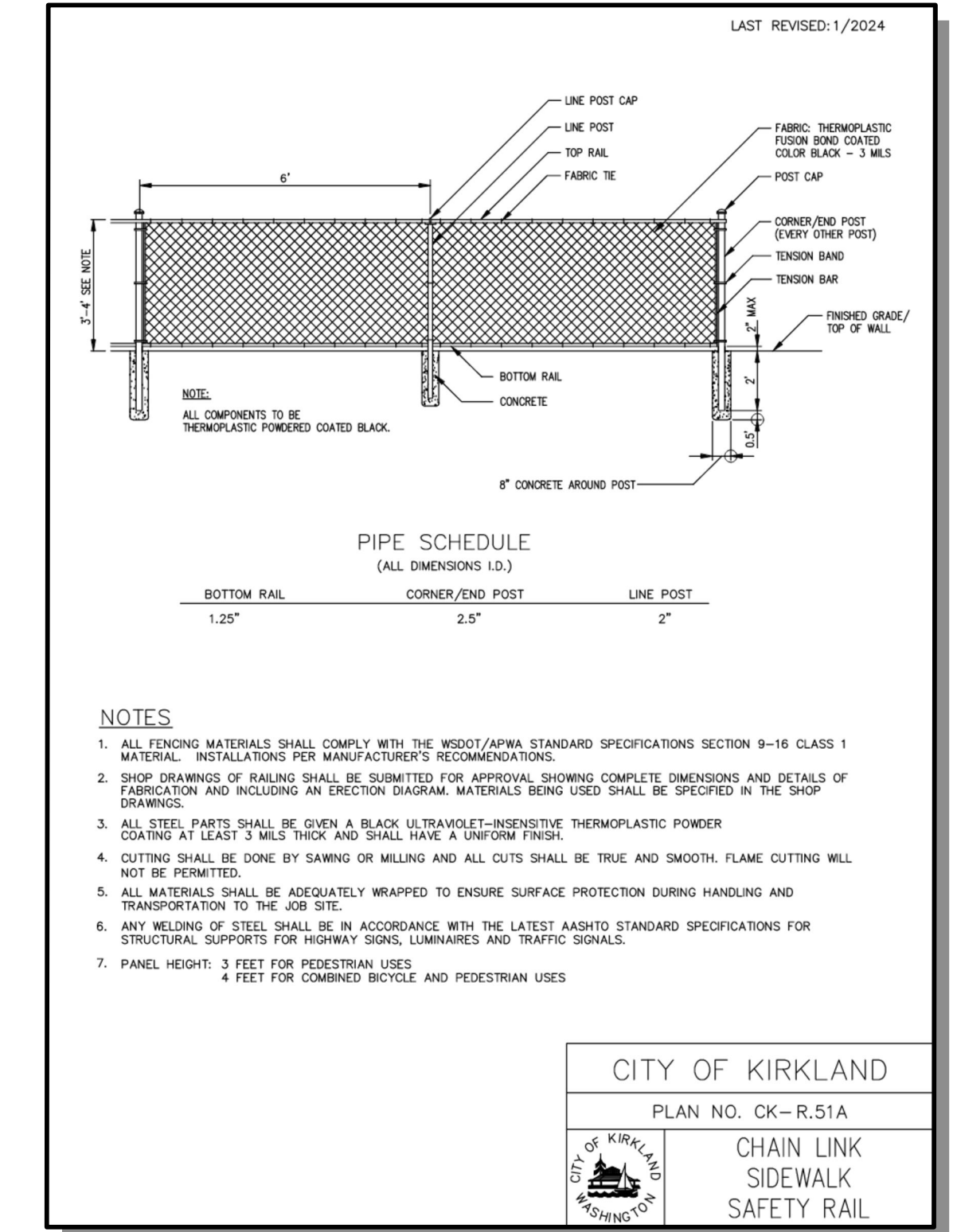
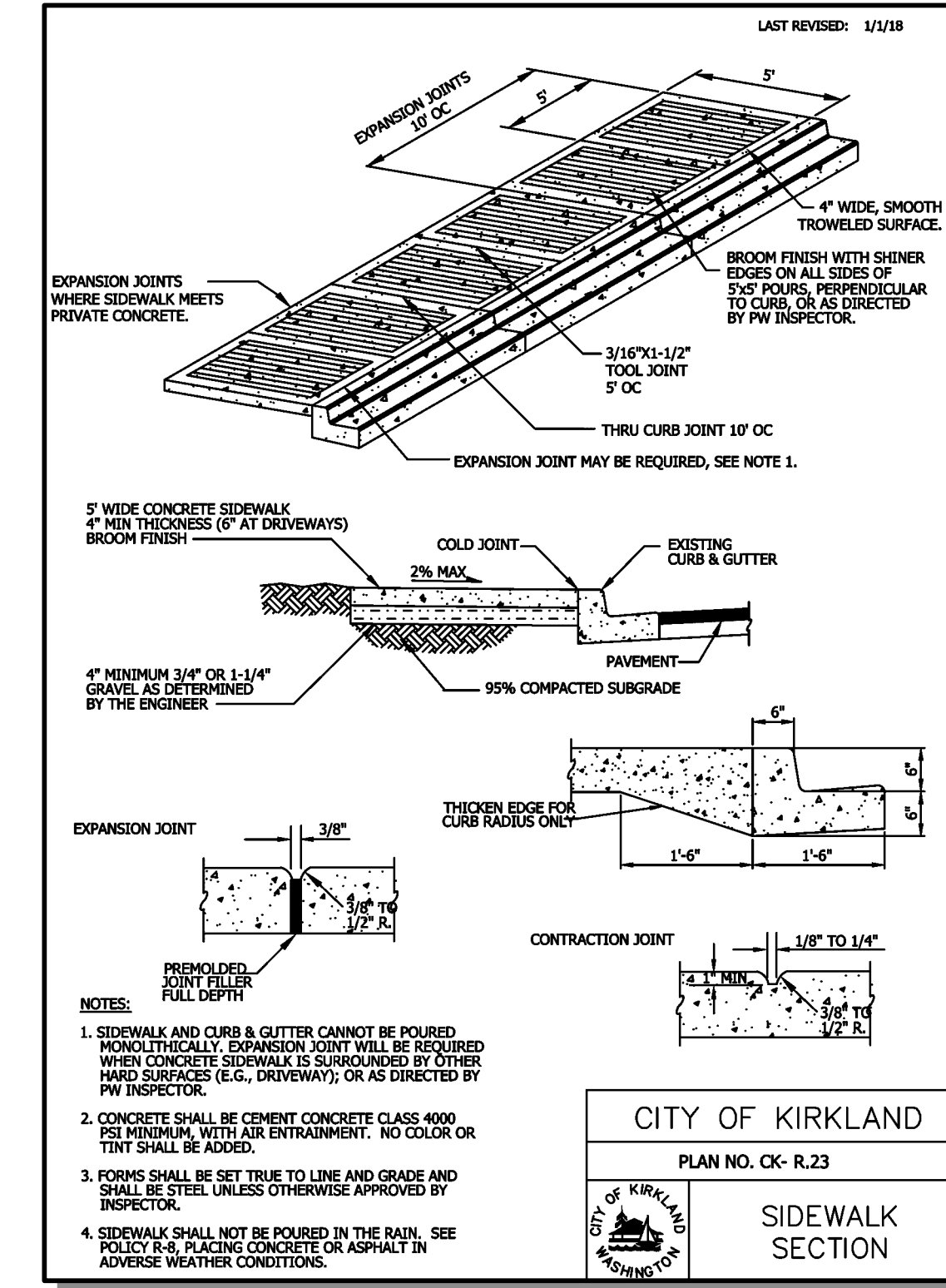
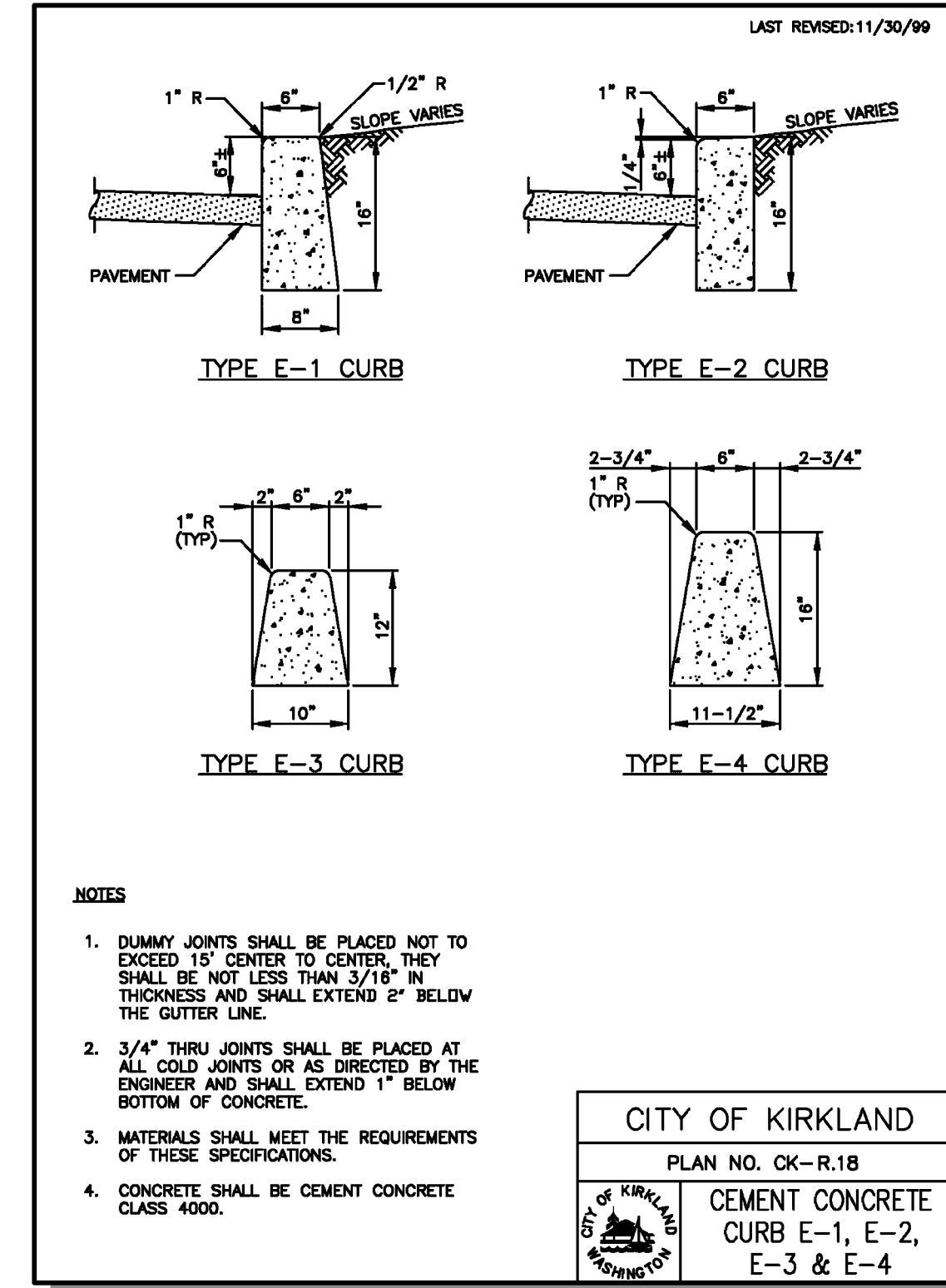
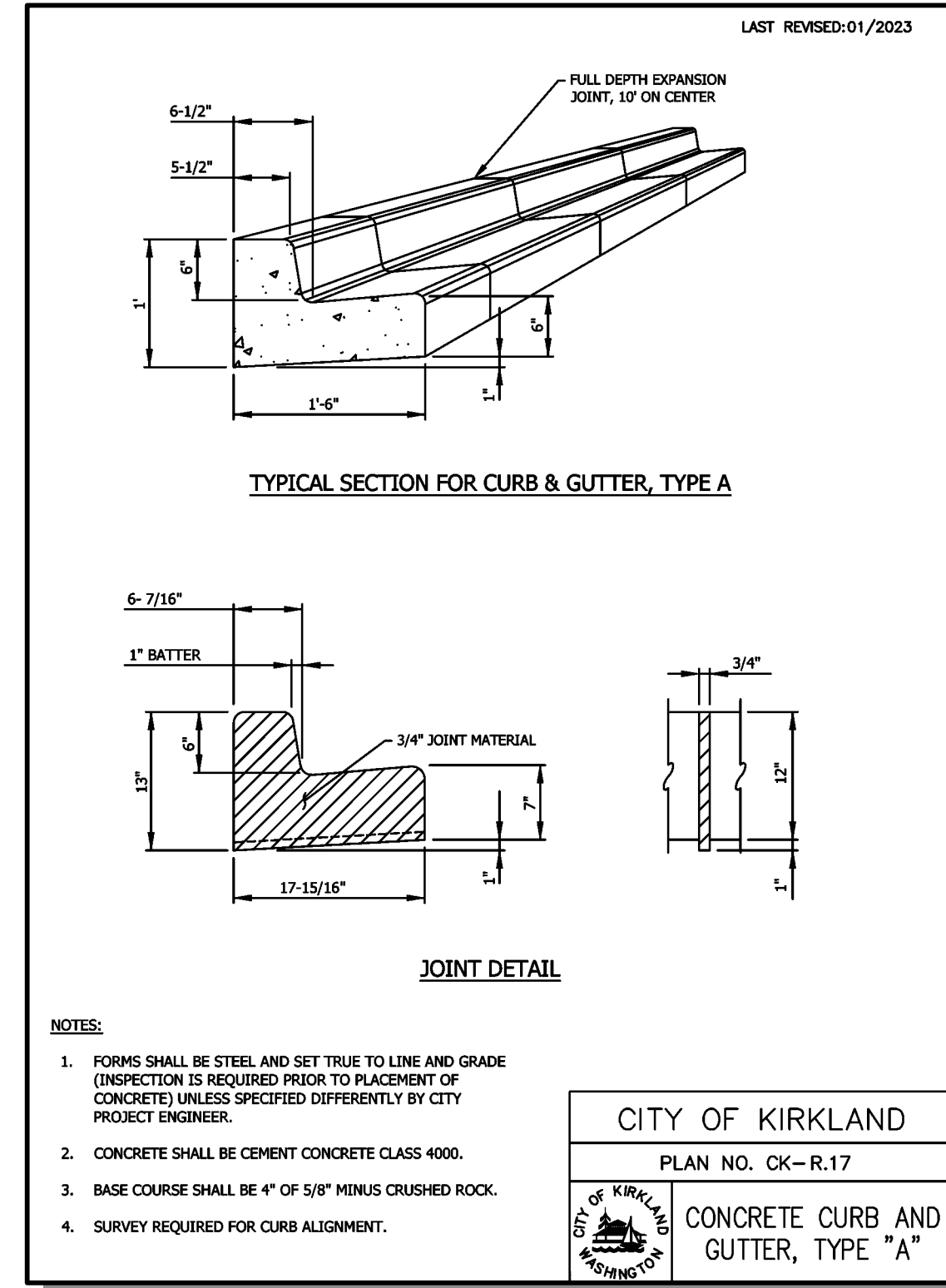
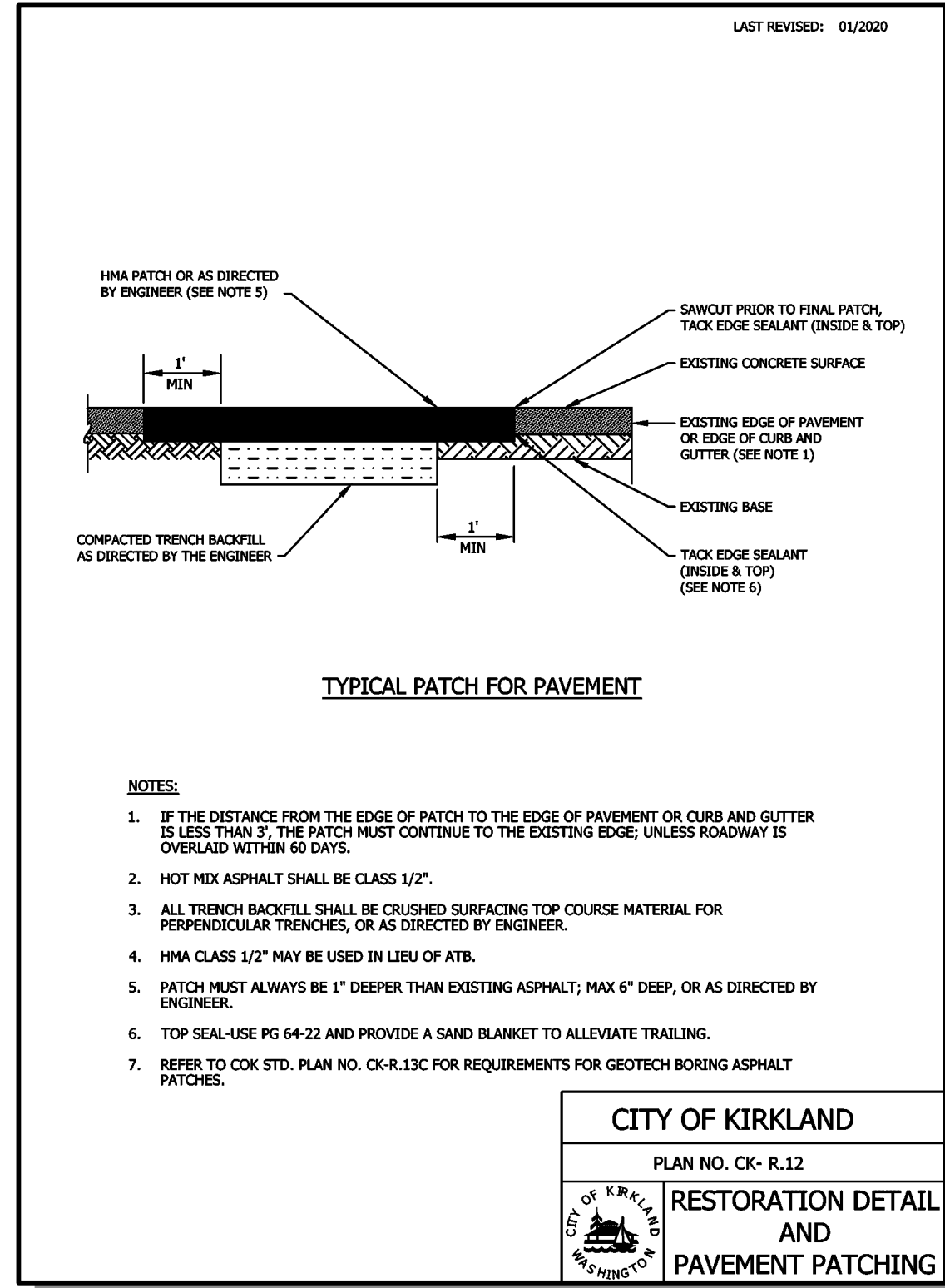
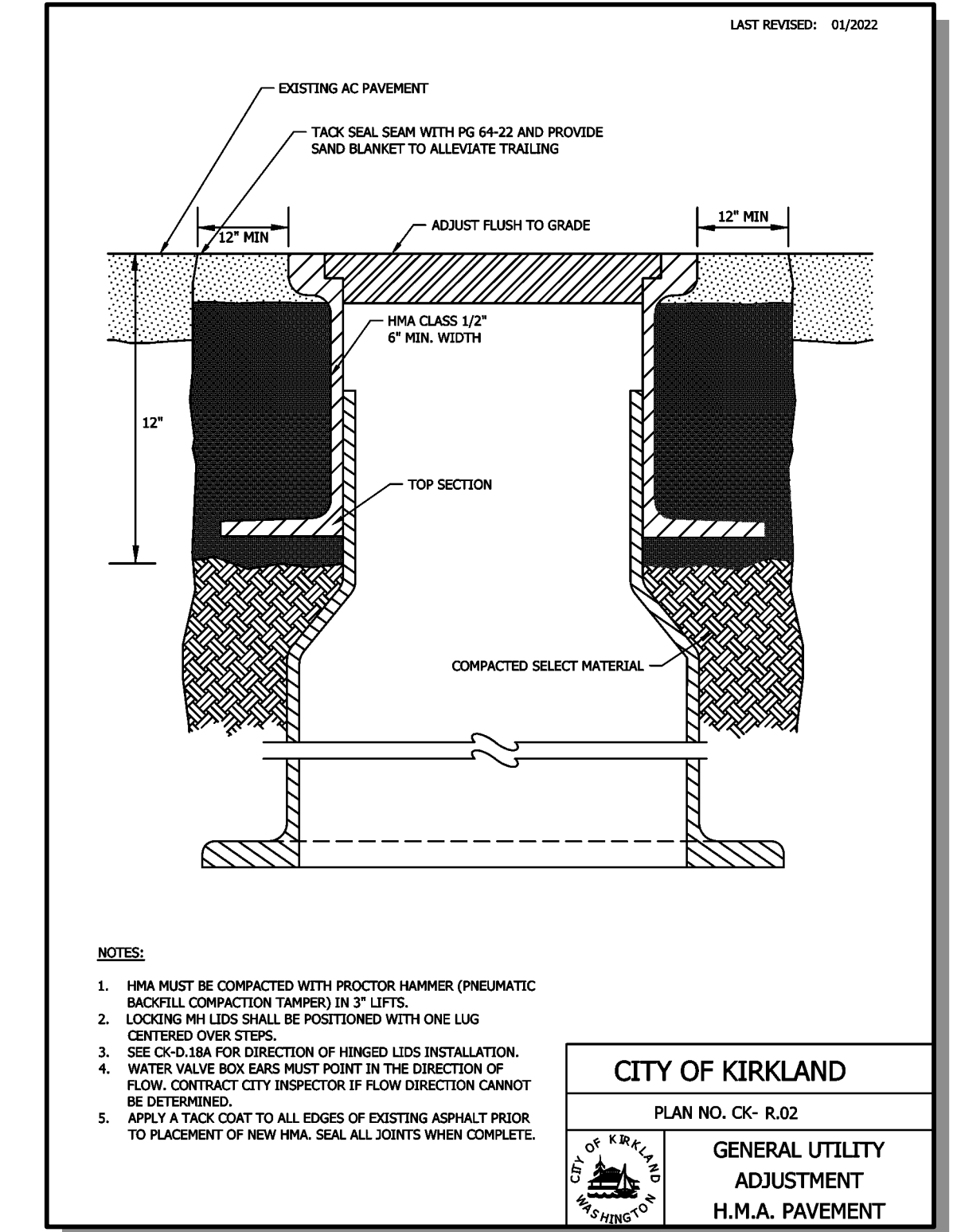
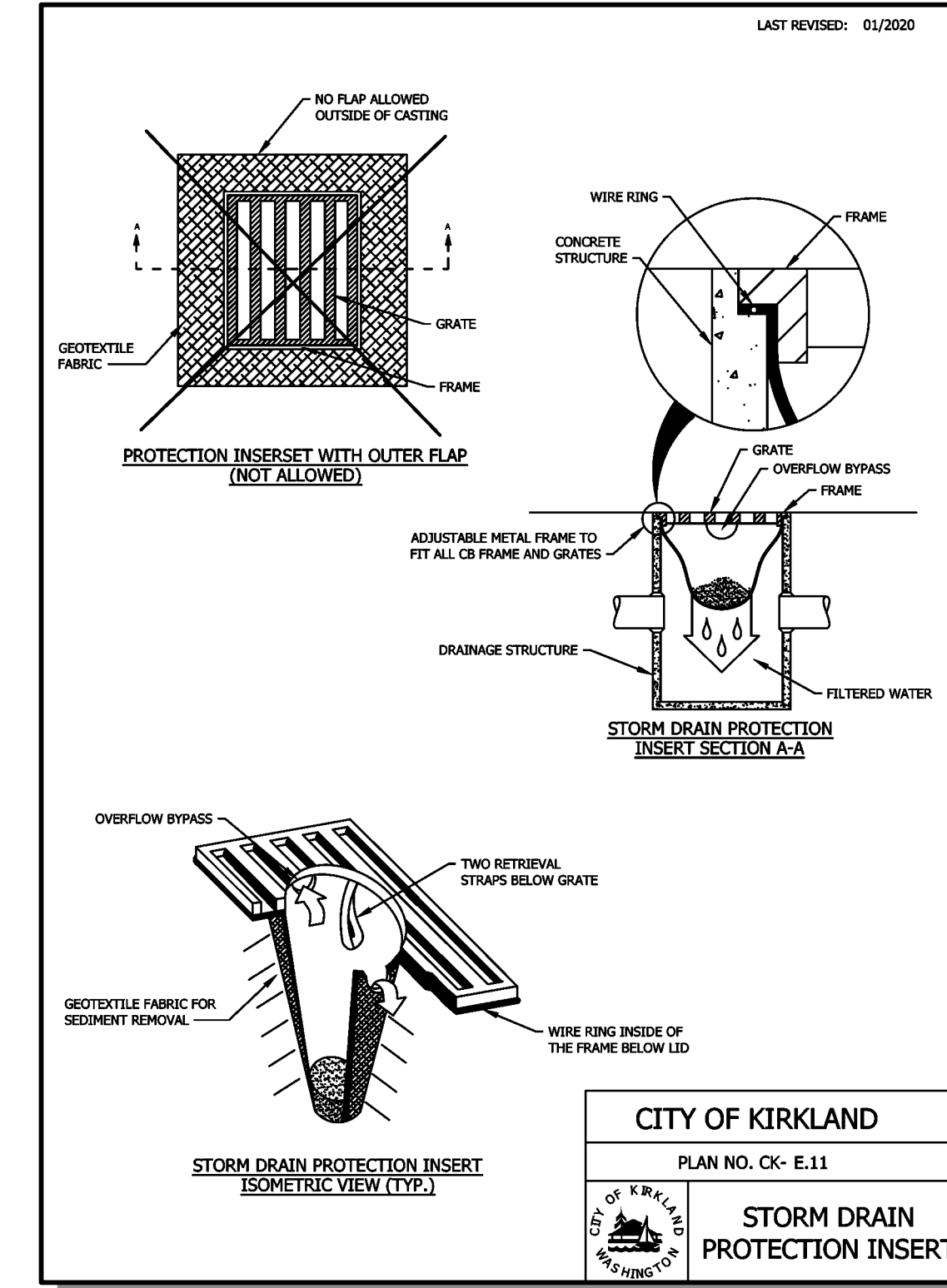
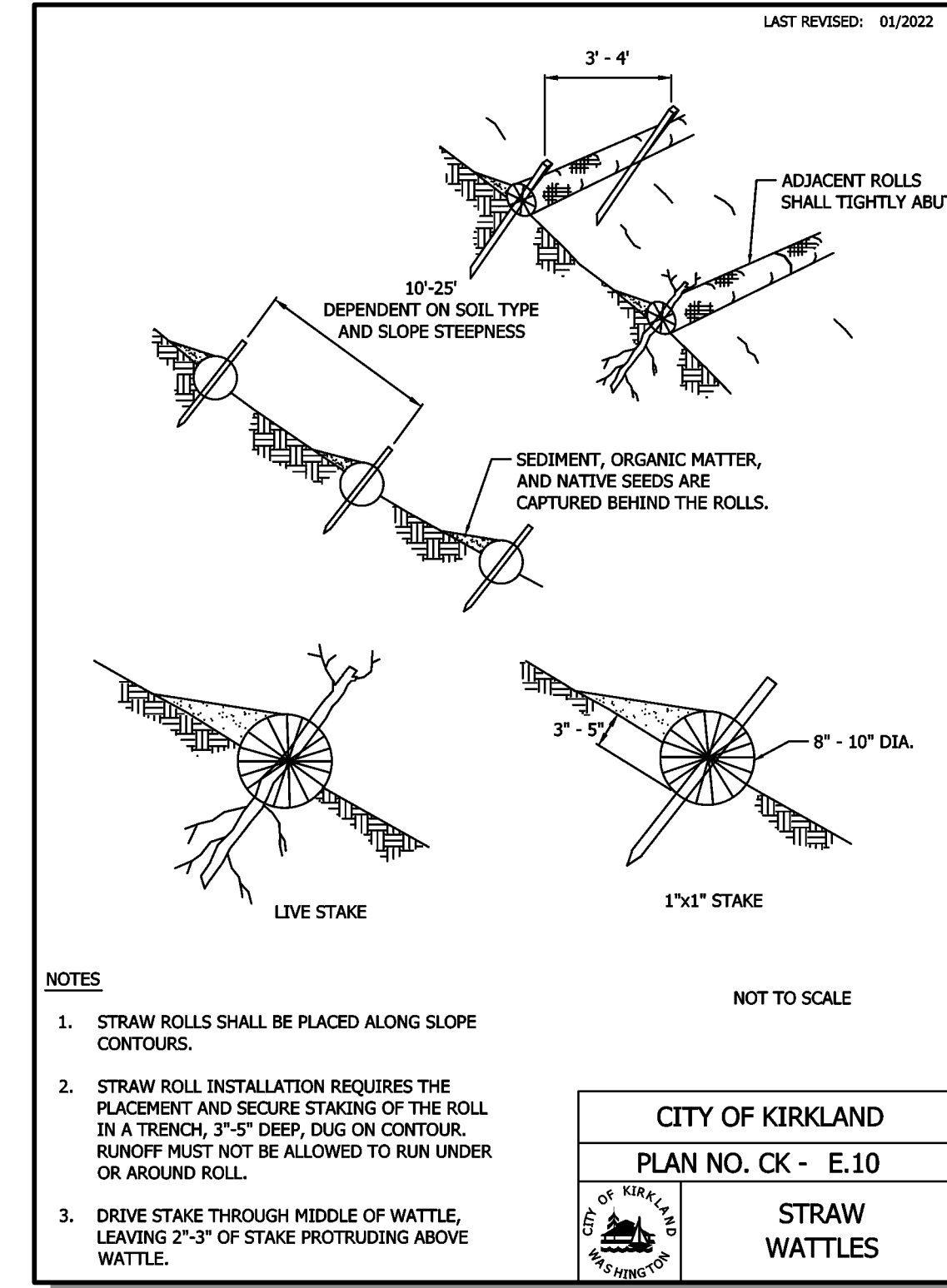
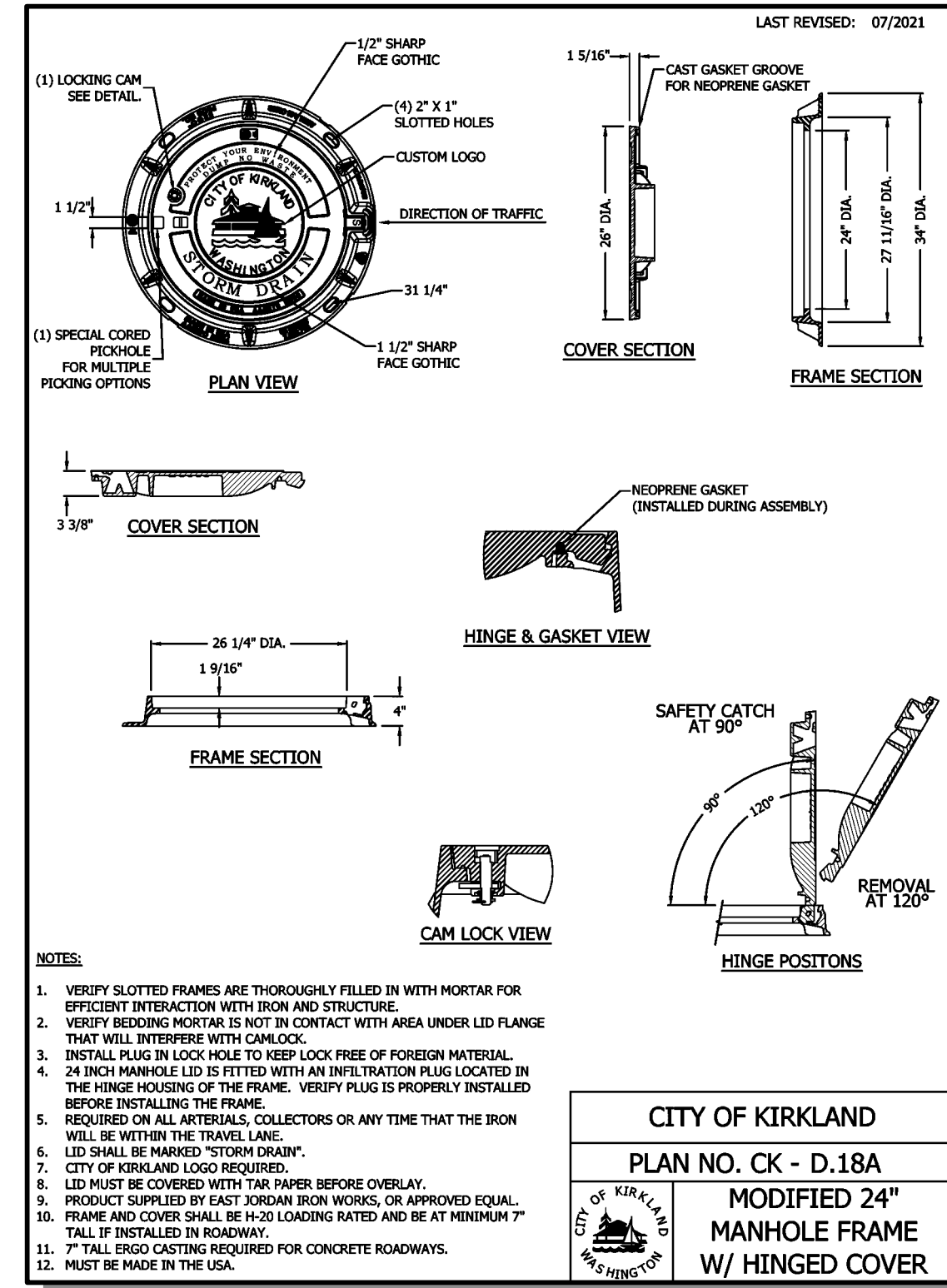
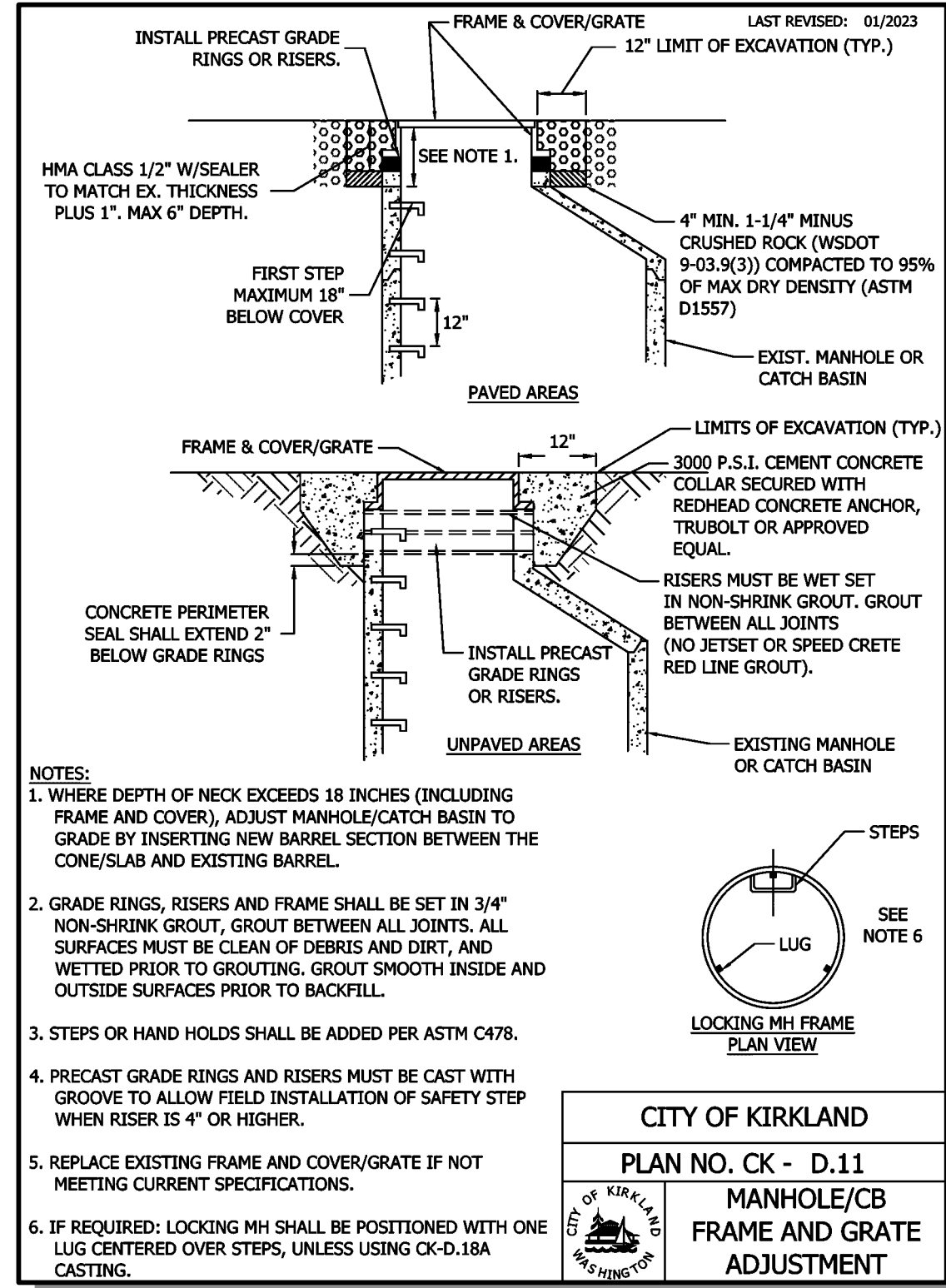
CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT
RESTORATION PLAN - 119TH AVE NE

SHEET:
16 OF 19
SCALE:
AS SHOWN
FILENAME:
RP-03

Date: 9/23/2024 1:08pm Location: C:\Users\jldarrows\OneDrive\Documents\BL23-113\Drawings\RP-03.dwg



ATWELL JOB # BL23-113

CITY OF KIRKLAND
WASHINGTON

DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033

NO.	DATE	BY	APPR.	REVISION

APPROVED BY:

DATE:

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN
IMPROVEMENT PROJECT

STANDARD DETAILS

SHEET:
17 OF 19

SCALE:
AS SHOWN

FILENAME:
DT-01

09/23/24 1:10pm
 2:10pm
 3:10pm
 4:10pm
 5:10pm
 6:10pm
 7:10pm
 8:10pm
 9:10pm
 10:10pm
 11:10pm
 12:10pm
 1:10pm
 2:10pm
 3:10pm
 4:10pm
 5:10pm
 6:10pm
 7:10pm
 8:10pm
 9:10pm
 10:10pm
 11:10pm
 12:10pm

LAST REVISED: 11/30/99

PARALLEL CONSTRUCTION

TABLE 1
WATER MAIN STANDARD PIPE MATERIAL

AWWA STANDARD			
TYPE OF PIPE	PIPE	JOINT	FITTINGS
DUCTILE IRON	C 152	C 111	C 110
CONCRETE CYLINDER	C 303		

NOTES:
1. TO BE USED WHEN 10' MINIMUM SEPARATION CANNOT BE OBTAINED.

CITY OF KIRKLAND
PLAN NO. CK-W.01
WATER AND SEWER SPACING AND CLEARANCE

LAST REVISED: 1/1/18

THRUST BLOCK TABLE
(Block sizes based on 200 psi test pressure)

PIPE SIZE	A	B	C	D	E	x (ft)	d (ft)
4"	3	2	2	1	1	None	1
6"	5	4	4	2	2	None	1.25
8"	9	6	5	3	2	4	1.5
10"	13	10	7	4	3	5	2
12"	19	13	11	6	4	6	2.25
14"	26	19	14	7	4	9	2.75
16"	27	25	19	10	6	12	2.75
18"	42	30	23	12	6	15	3.25
20"	52	37	28	15	9	19	3.75
24"	74	53	41	21	11	27	4.25

Notes:
For different test pressure multiply bearing area by (actual test pressure ÷ 200)

Diagram showing gate valve thrust blocking with labels: 90° BEND, TEE, CAP, 45° BEND, 22 1/2° BEND, 11 1/4° BEND.

NOTE: ADDITIONAL BLOCKING MUST BE PROVIDED IF GATE VALVE IS AT END OF LINE DURING TESTING.

1. SQUARE FEET OF CONCRETE THRUST BLOCK AREA BASED ON SAFE BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1/4" SQUARE FOOT BEARING AGAINST THE FITTING.

4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. IN CLAY OR FINE SILT, MULTIPLY BLOCK BEARING AREA BY 2.
7. IN MUCK OR PEAT, ALL THRUSTS SHALL BE RESTRAINED BY PILES OR ROADS TO SOLID FOUNDATIONS OR BY REMOVAL OF MUCK OR PEAT AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUST.

CITY OF KIRKLAND
PLAN NO. CK-W.02
CONCRETE THRUST BLOCKING

LAST REVISED: 02/04/10

VERTICAL BLOCKING
FOR 11 1/4", 22 1/2", 30" BENDS

PIPE SIZE	V	B	CU FT	A	D	L
4"	11 1/4"	8	2.0	5/8"	1.5	2.0
	22 1/2"	11	2.2			
	30"	17	2.6			
6"	11 1/4"	11	2.2	5/8"	2.0	
	22 1/2"	25	2.9			
	30"	41	3.5			
8"	11 1/4"	16	2.5	5/8"	2.0	
	22 1/2"	47	3.6			
	30"	70	4.1	3/4"	2.5	
12"	11 1/4"	32	3.2	3/4"	2.0	
	22 1/2"	88	4.5	7/8"	3.0	
	30"	132	5.1			
16"	11 1/4"	70	4.1	7/8"	3.0	
	22 1/2"	184	5.7	1 1/8"	4.0	
	30"	275	6.5	1 1/4"		
20"	11 1/4"	91	4.5	7/8"	3.0	
	22 1/2"	225	6.1	1 1/4"	4.0	
	30"	330	6.9	1 1/2"	4.5	
24"	11 1/4"	128	5.0	1"	3.5	
	22 1/2"	320	6.8	1 3/8"	4.5	
	30"	480	7.9	1 5/8"	5.5	

VERTICAL BLOCKING FOR 45° BENDS

PIPE SIZE	V	B	CU FT	A	D	L
4"	45°	3.1	1.1	5/8"	2.0	
6"		6.8	4.1			
8"		12.3	5.0			
12"		23.2	6.1	3/4"	2.5	
16"		43.8	7.8	1 1/8"	4.0	
20"		56.0	8.2	1 1/4"		
24"		82.0	9.4	1 3/8"	4.5	

NOTES:
1. CONCRETE BLOCKING BASED ON 200 PSI TEST PRESSURE AND 3000 PSI CONCRETE.

Diagram showing vertical blocking for 90° and 45° bends with labels: TURNBUCKLE, GALVANIZED RODS, UNDISTURBED EARTH, VERT. BEND.

CITY OF KIRKLAND
PLAN NO. CK-W.03
VERTICAL THRUST BLOCKING

LAST REVISED: 1/10/2011

EXTENSION DETAIL

Diagram showing valve extension detail with labels: FINISHED GRADE, STD CAST IRON VALVE BOX (RICH OR EQUAL #940), 2" SQUARE OPERATING NUT W/ 1/4" THICK ROUND PLATE WELDED TO NUT AND EXTENSION STEM, 1" DIA MILD STEEL OR DOUBLE EXTRA STRONG PIPE EXTENSION STEM, 2" SQUARE NUT SOCKET MADE FROM 1/4" STEEL PLATE, VALVE ASSEMBLY.

NOTE:
1. VALVE EXTENSIONS ARE ONLY REQUIRED IF DEPTH FROM FINISHED GRADE TO TOP OF OPERATING NUT IS GREATER THAN 5 FEET.
2. WHEN AN EXTENSION IS USED, THE DEPTH FROM EXTENSION OPERATING NUT TO FINISHED GRADE SHALL NOT BE LESS THAN 3 FEET.

Diagram showing extension detail with labels: 1/4" STEEL PLATE, 2" DIA. VALVE BOX, VALVE BOX, VALVE ASSEMBLY, 2" DIA. VALVE BOX, VALVE BOX, VALVE ASSEMBLY.

CITY OF KIRKLAND
PLAN NO. CK-W.05
WATER VALVE EXTENSION

LAST REVISED: 1/23/17

2" AIR AND VACUUM RELEASE VALVE ASSEMBLY

Diagram showing air and vacuum release valve assembly with labels: 2" AIR AND VACUUM RELEASE VALVE ASSEMBLY, 2" DIA. VALVE BOX, VALVE BOX, VALVE ASSEMBLY, 2" DIA. VALVE BOX, VALVE BOX, VALVE ASSEMBLY.

NOTE: WHERE MAIN TO SERVICE METER MUST BE INSTALLED IN ALL INSTALLATIONS, WIRE MUST BE WRAPPED AROUND STOP AND THE CORPORATION STOP, WITH LAST 8" STRIPPED.

CITY OF KIRKLAND
PLAN NO. CK-W.09
2" AIR AND VACUUM RELEASE VALVE ASSEMBLY

LAST REVISED: 02/01/10

FILLING NEW WATER MAINS

Diagram showing filling new water mains with labels: 2-1/2" CONTROL VALVE, 2" HYDRANT METER RENTED FROM CITY, DOUBLE CHECK VALVE ASSEMBLY, SUPPLY HOSE, NEW HYDRANT BLOW-OFF ASSEMBLY, OR TEMPORARY FLUSHING CONNECTION, HOSE BIBB SAMPLE, NEW WATER MAIN, TEMPORARY CAP OR PLUG, EXISTING WATER MAIN WITH NEW VALVE(S) CUT IN OR WET TAPPED, DISCHARGE/FLUSHING.

NOTES:
1. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED BETWEEN THE EXISTING AND NEW WATER LINES DURING DISINFECTION AND FLUSHING OF NEW WATERMAIN.
2. THE BACKFLOW PREVENTION ASSEMBLY AND SUPPLY HOSE MUST BE DISCONNECTED DURING HYDROSTATIC PRESSURE TESTING OF THE NEW MAIN.
3. THE NEW WATERMAIN SHALL BE CONNECTED TO THE EXISTING SYSTEM ONLY AFTER NEW MAIN IS FLUSHED, DISINFECTED AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE OBTAINED.
4. THE INTERIORS OF ALL PIPES AND FITTINGS TO BE USED IN FINAL CONNECTION MUST BE SWABBED OR SPRAYED WITH A 1% AVAILABLE CHLORINE SOLUTION.
5. 2" HYDRANT METER SHALL BE OBTAINED FROM THE CITY OF KIRKLAND PUBLIC WORKS DEPARTMENT.
6. DISCHARGE FLUSHING TO SEWER ONLY. PROVIDE AIR GAP AT DISCHARGE.

CITY OF KIRKLAND
PLAN NO. CK-W.10
FILLING NEW WATER MAINS

LAST REVISED: 01/11/18

FIRE HYDRANT ASSEMBLY

Diagram showing fire hydrant assembly with labels: PUMPER PORT TO BACK OF SIDEWALK SHALL BE MINIMUM OF 1' OR AS DIRECTED BY FIRE DEPARTMENT, CONCRETE PAD 2" DIA. x 4" THICK (ONLY IN NON-PAVED AREAS), SEE STANDARD DETAIL CK-W.05, 6" D.I. TEE M X M X F, MAIN, 1/2 YARD WASHED DRAIN ROCK (3" TO 3/8") MIN. 1" ABOVE BOOT FLANGE, PLACE 3 MIL POLYETHYLENE FILM AROUND TOP AND SIDES OF GRAVEL AND VALVE.

NOTES:
1. FIRE HYDRANT EXTENSION, IF REQUIRED.
2. FIRE HYDRANT TO BE PAINTED WITH TWO COATS OF HIGH GLOSS ORANGE SAFETY YELLOW ENAMEL PAINT.
3. INSTALL BLUE TYPE 3 R.F.M. ON STREET SURFACE ADJACENT TO MAIN PORT.

CITY OF KIRKLAND
PLAN NO. CK-W.14
FIRE HYDRANT ASSEMBLY

LAST REVISED: 1/20/23

WATER METER PLACEMENT DETAILS

Diagram showing water meter placement details with labels: WITH OR WITHOUT SIDEWALK, PLANTER STRIP, CURB & GUTTER, APPROVED METER BOX ASSEMBLY (PER PLAN NO. CK-W.21 OR W.22), INSTALLATION IN PLANTER STRIP 3' OR WIDER, SIDEWALK, CURB & GUTTER, APPROVED METER BOX ASSEMBLY (PER PLAN NO. CK-W.23 OR W.25 AS APPLICABLE TO SERVICE SIZE), INSTALLATION BEHIND SIDEWALK, EXPANSION JOINT MATERIAL, CURB & GUTTER, APPROVED METER BOX (PER PLAN NO. CK-W.23 OR W.25 AS APPLICABLE TO SERVICE SIZE) WITH SOLID METAL TRAFFIC LID SET FLUSH WITH SIDEWALK SURFACE, INSTALLATION IN SIDEWALK, METER BOX TO BE INSTALLED IN SIDEWALK COMPLETELY 6" FROM EDGE.

NOTES:
WATER METERS MUST BE LOCATED ALONG THE FRONTAGE THAT THE PROPERTY IS ADDRESSED FROM UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DEPARTMENT.

CITY OF KIRKLAND
PLAN NO. CK-W.17
WATER METER PLACEMENT DETAILS

LAST REVISED: 10/15/19

WATER METER SERVICE INSTALLATION

Diagram showing water meter service installation with labels: 6"-10", 36" MIN, METER LENGTH 5/8"x3/4" 7-1/2" 10-3/4", NOT TO BE INSTALLED WHEN REPLACING AN EXISTING SERVICE TO A BUILDING THAT DID NOT HAVE ONE INSTALLED PREVIOUSLY (SEE STANDARD 11) NOT TO SCALE.

DESCRIPTION	MAKER OR TYPE	1"
1. SINGLE STRAP SADDLE	STAINLESS 304/316 OR EQUAL	101 LPT FB1101-4-G-NL
2. CORP STOP	FORD OR EQUAL	BA63-44W-G-NL
3. ANGLE STOP	FORD OR EQUAL	#72 STAINLESS STEEL
4. INSERTS	FORD OR EQUAL	IPS-SOR-(PEMWR)
5. POLY PIPE	POLYETHYLENE ASH D2299	CK-W.21 (OR W.23 W/APPROVAL)
6. METER BOX	CHISON OR EQUAL	14 GAUGE
7. TRACER WIRE	CU SOLID WIRE	CITY TO INSTALL*
8. CHECK VALVE		CITY TO INSTALL UNLESS A CIP PROJECT
9. METER	FORD OR EQUAL #94H	
10. 1" x 3/4" METER ADAPTOR (FOR 5/8 x 3/4" MTR)	FORD OR EQUAL #424	
11. 1" METER 3/4" METER	FORD OR EQUAL L31-44	

NOTES:
1. ALL FITTINGS MUST BE FORD OR EQUAL.
2. TRACER WIRE FROM MAIN TO SERVICE METER MUST BE INSTALLED IN ALL INSTALLATIONS. WIRE MUST BE WRAPPED AROUND ANGLE STOP AND THE CORPORATION STOP, WITH LAST 8" STRIPPED.
3. POLY SERVICE LINE IS TO BE CONTINUOUS FROM MAIN TO METER AND SPICES OF ANY KIND.
4. POLY PIPE TO BE 1" FROM MAIN TO METER.
5. METERS SHALL NOT BE LOCATED IN CONCRETE OR ASPHALT PAVING UNLESS UNAVOIDABLE.
6. THE ANGLE STOP SHALL BE IN A POSITION THAT RESULTS IN THE METER BEING CENTERED DIRECTLY BENEATH THE METER READING LID.

CITY OF KIRKLAND
PLAN NO. CK-W.18
5/8"x3/4" & 1" WATER METER SERVICE INSTALLATION

LAST REVISED: 02/01/10

3/4" x 4" WATER METER SERVICE PLACED IN PLANTER

Diagram showing water meter service placed in planter with labels: 19-3/4", 13-1/2", 1-3/4", BOLT DOWN, 21-1/2", 15", 18-3/4", 25-3/4", 3" x 4" KNOCK OUTS (OPPOSITE SIDES), ANCHOR TABS (4 PLACES).

NOTES:
1. USE - CARSON MODEL 1220-12 WITH METER READING COVER OR EQUAL.
2. COVER MUST DISPLAY "WM" OR EQUAL.
3. METER READING FLIP-UP LID SHALL BE PLASTIC.

CITY OF KIRKLAND
PLAN NO. CK-W.21
3/4" x 4" WATER METER SERVICE PLACED IN PLANTER

ATWELL JOB # BL23-113

CITY OF KIRKLAND
WASHINGTON

DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033

NO.	DATE	BY	APPR.	REVISION

APPROVED BY:

DATE: 9/23/24

KAI POPE, EIT 9/2024
DESIGNED BY: DATE

CAROL DOGGETT 9/2024
DRAWN BY: DATE

BRIAN DARROW, PE 9/2024
CHECKED BY: DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

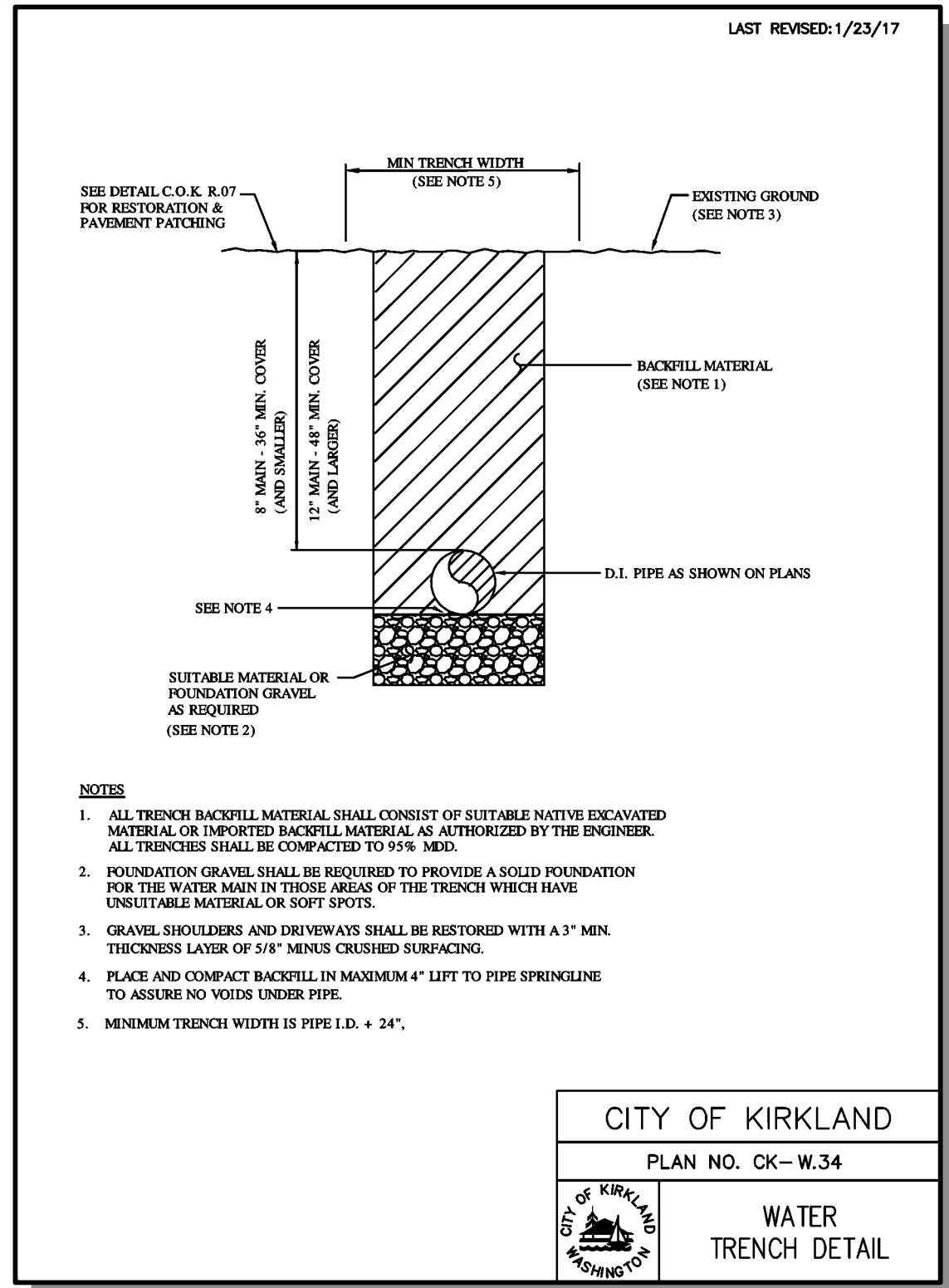
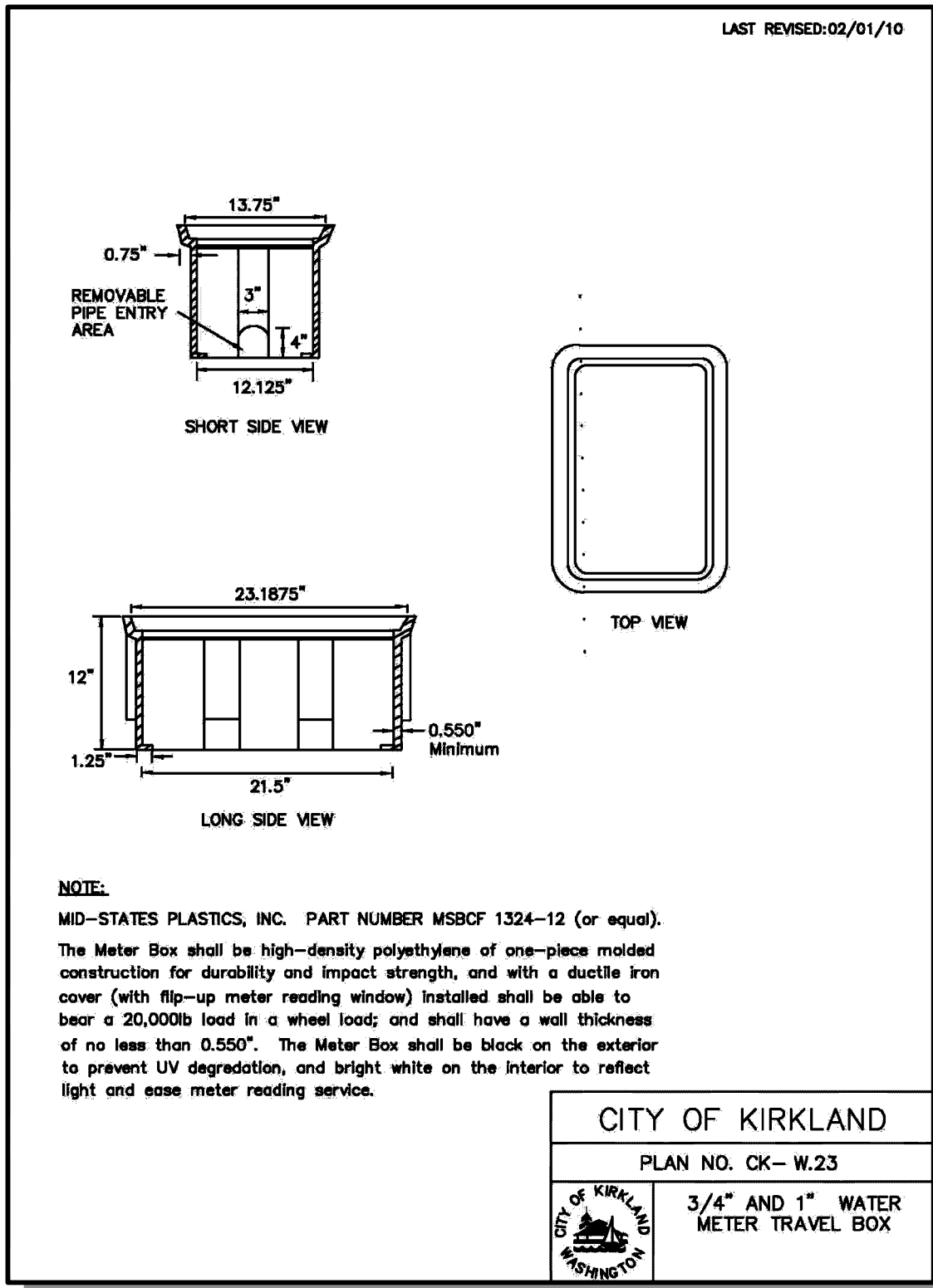
STANDARD DETAILS

SHEET: 18 OF 19

SCALE: AS SHOWN

FILENAME: DT-02

Sep 23, 2024 1:09pm
 C:\Users\jdoyle\OneDrive\Documents\Projects\BL23-113\DWG\DT-02.dwg

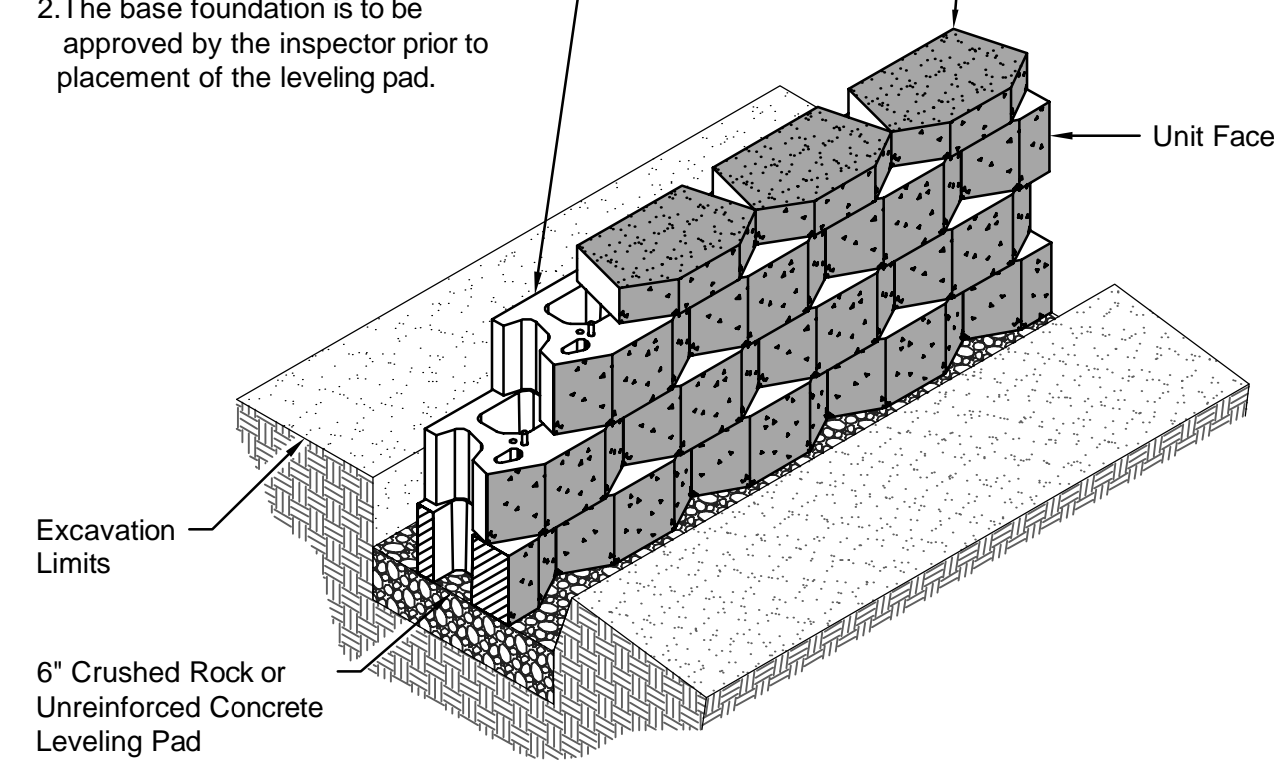


Base Leveling Pad Notes:

- The leveling pad is to be constructed of crushed stone or 2,000 psi± unreinforced concrete
- The base foundation is to be approved by the inspector prior to placement of the leveling pad.

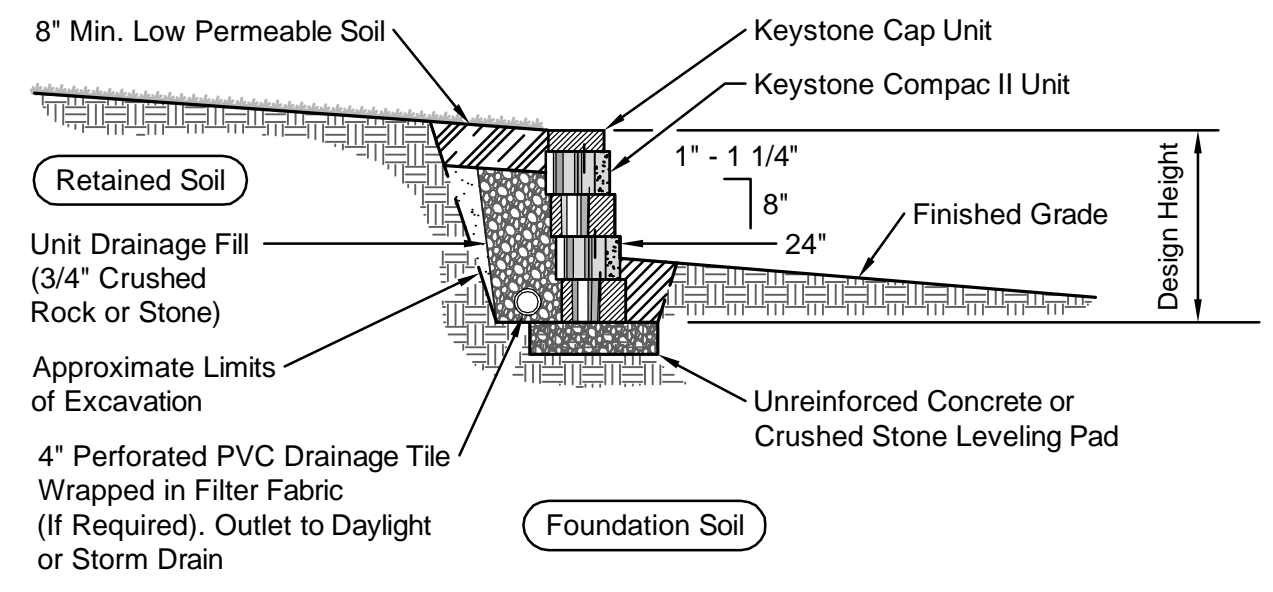
Compac II Unit	
Width:	18"
*Depth:	12"
Height:	8"
*Weight:	82 lbs

Cap Unit	
Width:	18"
*Depth:	10 1/2"
Height:	4"
*Weight:	45 lbs



Compac II Unit/Base Pad Isometric Section View

* Dimensions & Weight May Vary by Region

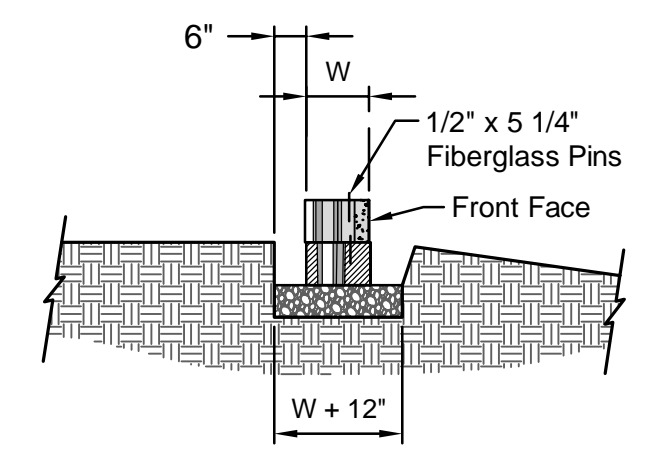


Typical Gravity Wall Section

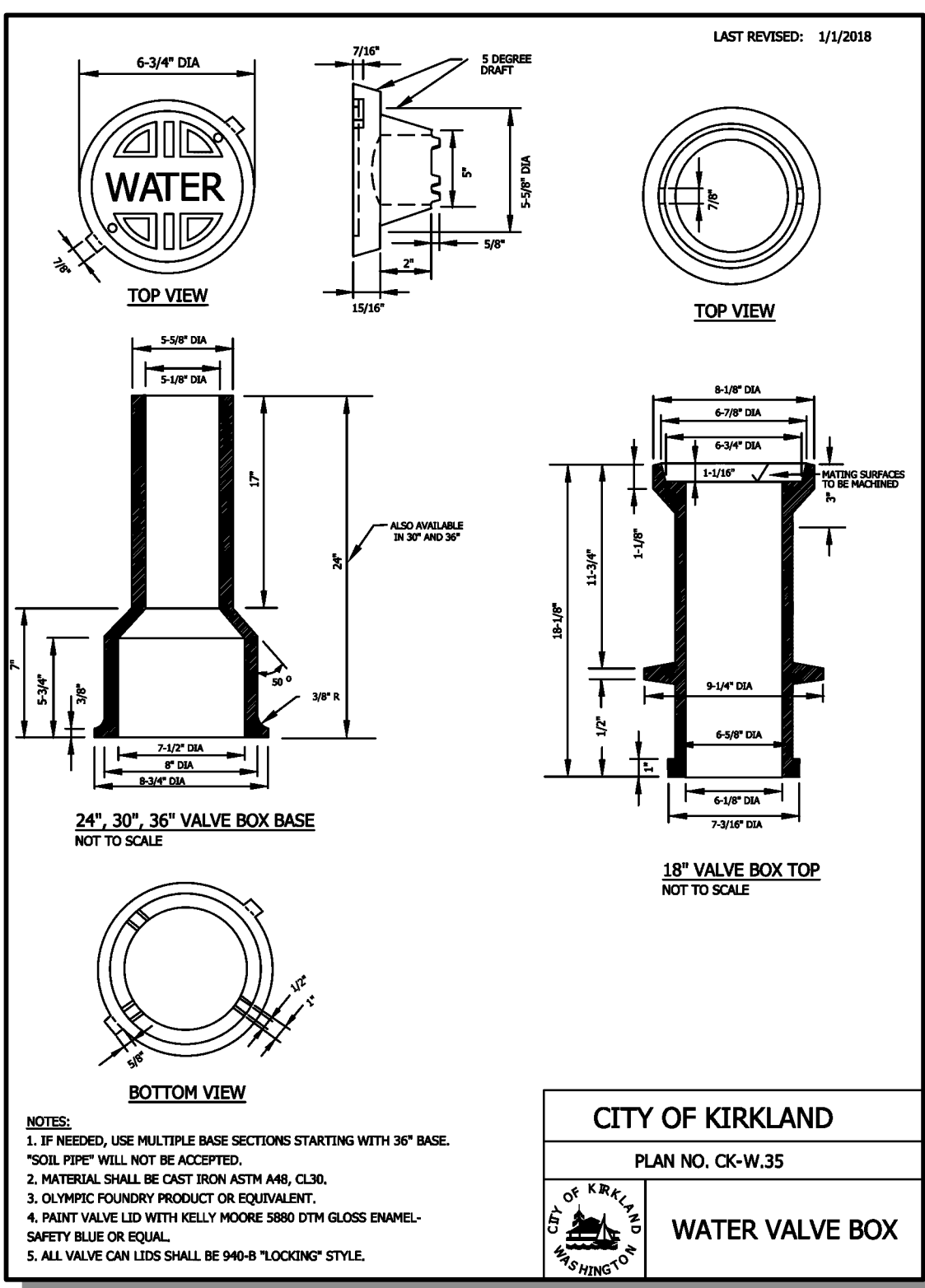
Compac II Unit - 1" Setback

Notes:

- The leveling pad is to be constructed of crushed stone or 2000 psi± unreinforced concrete.
- Leveling pad shall be compacted to minimum 95% of proctor density



Section Leveling Pad Detail



ATWELL JOB # BL23-113

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033

NO.	DATE	BY	APPR.	REVISION



APPROVED BY: _____
DATE: 9/23/24

KAI POPE, EIT 9/2024
DESIGNED BY: _____ DATE
CAROL DOGGETT 9/2024
DRAWN BY: _____ DATE
BRIAN DARROW, PE 9/2024
CHECKED BY: _____ DATE

NE 73RD ST WATER MAIN IMPROVEMENT PROJECT

STANDARD DETAILS

SHEET: 19 OF 19
SCALE: AS SHOWN
FILENAME: DT-03