CITY OF KIRKLAND

WEST OF MARKET SEWERMAIN REHABILITATION PILOT PROJECT

FEBRUARY, 2025

JOB NO. 52-24-PW

SSC0771010

CITY OFFICIALS

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

CONTACT PERSONNEL

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CITY OF KIRKLAND	COK WATER & SEWER SUPERVISOR	425.587.3900
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CITY OF KIRKLAND	COK STREETS & GROUNDS MANAGER	425.587.3900
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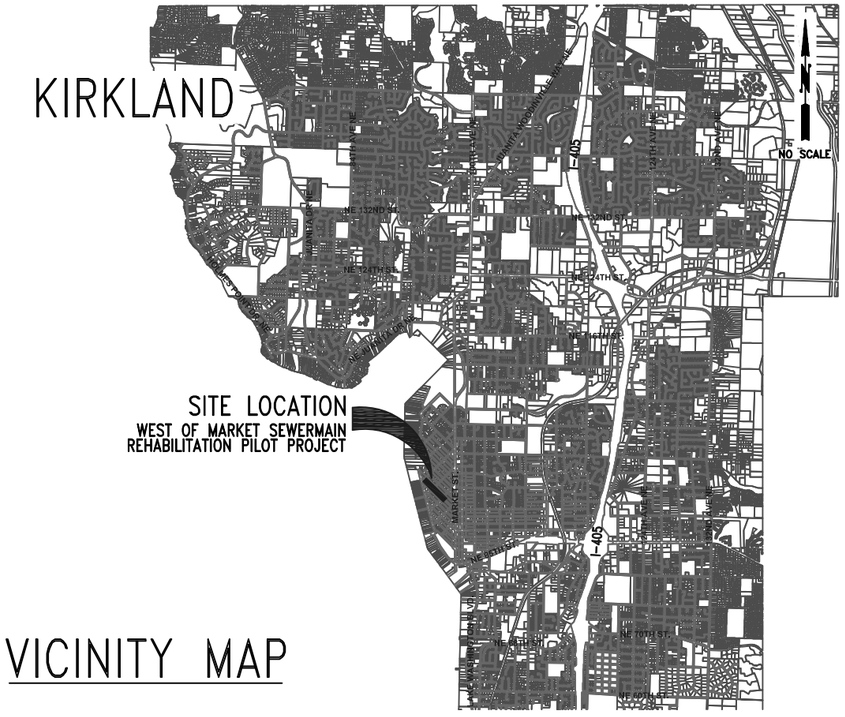
POLICE MAIN LINE	COK	425.587.3400
FIRE MAIN LINE	COK	425.864.3650
SPILL RESPONSE HOTLINE	COK	425.587.3900
ONE CALL UTILITY LOCATE		800.424.5555



VICINITY MAP

I-WEN YANG
STATE OF WASHINGTON
20108086
REGISTERED
PROFESSIONAL ENGINEER

INDEX OF DRAWINGS

LEGEND

PROPOSED EXISTING SANITARY SEWER PIPE TO CIPP LINE

APPROXIMATE SPOT REPAIR LOCATION

EXISTING SANITARY SEWER LATERAL PIPE (12 O'CLOCK ORIENTATION)

EXISTING SANITARY SEWER LATERAL PIPE

SS — EXISTING SANITARY SEWER PIPE

EXISTING SANITARY SEWER MANHOLE

SD — EXISTING STORM DRAIN PIPE

EXISTING STORM DRAIN CATCH BASIN

W — EXISTING WATER PIPE UTILITY

EXISTING WATER METER UTILITY

EXISTING FIRE HYDRANT

EXISTING WATER VALVE UTILITY

EXISTING RIGHT-OF-WAY LINE

PL — EXISTING PROPERTY LINE

GAS — EXISTING GAS UTILITY

EXISTING GAS METER UTILITY

X — SITE IMAGE REF., SEE NOTE X

ABBREVIATIONS

AC	ASPHALT CONCRETE PAVEMENT	ESD	ENTERING SIGHT DISTANCE	PVI	POINT OF VERTICAL INTERSECTION
AP	ANGLE POINT	ESMT.	EASEMENT	PUE	PUBLIC UTILITY EASEMENT
ATB	ASPHALT TREATED BASE	EVA	EMERGENCY VEHICLE ACESS	REQ'D	REQUIRED
AVE	AVENUE	EXIST.	EXISTING	ROW	RIGHT-OF-WAY
BCR	BEGIN CURB RETURN	FL	FLOW LINE	RT	RIGHT
BOC	BACK OF CURB	FL.	FLANGE	S	SOUTH
CL	CENTERLINE	FOC	FACE OF CURB	SD	STORM DRAIN
CB	CATCH BASIN	HORIZ	HORIZONTAL	SDCB	STORM DRAIN CATCH BASIN
CDF	CONTROLLED DENSITY FILL	IE	INVERT ELEVATION	SP	SPACE
CMP	CORRUGATED METAL PIPE	INT	INTERSECTION	SS	SANITARY SEWER
CONC.	CONCRETE	LCPE	LINE CORRUGATED POLYETHYLENE PIPE	SSD	STOPPING SIGHT DISTANCE
CONN.	CONNECTION	LF	LINEAL FEET	SSMH	SANITARY SEWER MANHOLE
CONT.	CONTINUOUS	LUI	LAND USE INSPECTOR	STA	STATION
COK	CITY OF KIRKLAND	MAX.	MAXIMUM	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
CIPP	CURED-IN-PLACE PIPE	MDRT	MAJOR DEVELOPMENT REVIEW TEAM		
CPP	CORRUGATED POLYETHYLENE PIPE	MH	MANHOLE	TOC	TOP OF CURB
CSBC	CRUSHED SURFACING BASE COURSE	MIN.	MINIMUM	TYP.	TYPICAL
CSTC	CRUSHED SURFACING TOP COURSE	MJ	MECHANICAL JOINT	TBW	TOP BACK OF WALK
DIA.	DIAMETER	N	NORTH	TOW	TOP OF WALL
DI	DUCTILE IRON	NIC	NOT IN CONTRACT	UNO	UNLESS NOTED
DW	DRIVEWAY	O.C.	ON CENTER	VERT.	VERTICAL
E	EAST	PC	POINT OF CURVATURE	WSDOT	WASHINGTON DEPT. OF TRANSPORTATION
ECR	END CURB RETURN	PE	PLAIN END		
EL.	ELEVATION	PI	POINT OF INTERSECTION	W/	WITH
EOP	EDGE OF PAVEMENT	PL	PLACE	W	WEST
ESC	EROSION AND SEDIMENT CONTROL	PT	POINT OF TANGENCY	WS	WATER SERVICE

GENERAL PROJECT NOTES

1. ALL WORKMANSHIP, METHODS AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO THE 2024 EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PRODUCED BY WSDOT AND THE WASHINGTON STATE CHAPTER OF THE APWA; APPLICABLE CITY OF KIRKLAND MUNICIPAL CODE AND PUBLIC WORKS AND DEVELOPMENT STANDARDS; APPLICABLE KING COUNTY CODE AND PUBLIC WORKS AND DEVELOPMENT STANDARDS; AND ANY SPECIAL PROVISIONS PROVIDED BY THESE PLANS OR OTHER CONTRACT DOCUMENTS FOR THE PROJECT.
2. EXISTING UTILITIES ARE SHOWN IN THESE PLANS PER THE LATEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES AND RELATED SURFACE FEATURES WITHIN THE PROJECT AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE PLAN INFORMATION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL, AT MINIMUM, CONTACT THE UNDERGROUND UTILITIES LOCATE CENTER (1-800-424-5555) TO HAVE UTILITIES VERIFIED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT THE UTILITY LOCATES ARE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGING ANY UTILITIES. IF CONFLICTS ARISE DURING CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE CITY CONSTRUCTION INSPECTOR. ANY REQUIRED CHANGES MUST BE APPROVED BY THE ENGINEER BEFORE PROCEEDING WITH THE RELATED WORK.
3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED, OR OTHERWISE STABILIZED, TO THE SATISFACTION OF THE CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS TO PREVENT ANY ON-SITE EROSION FOLLOWING THE COMPLETION OF THE PROJECT.
4. FOR STREETS DESIGNATED AS ARTERIALS OR COLLECTORS, BACKFILL FOR CROSSINGS SHALL BE CDF. CUTS INTO THE EXISTING ASPHALT SHOULD BE MADE WITH A NEAT, CONTINUOUS LINE USING A SAW OR JACKHAMMER. A TEMPORARY COLD MIX PATCH MUST BE APPLIED IMMEDIATELY AFTER BACKFILLING AND COMPACTION. A PERMANENT HOT MIX PATCH MUST BE INSTALLED WITHIN 30 DAYS, WITH A THICKNESS OF AT LEAST 1 INCH GREATER THAN THE ORIGINAL ASPHALT, AND A MINIMUM THICKNESS OF 2 INCHES.
5. WHEN REQUIRED, ALL PIPES, MANHOLES, CATCH BASINS, AND APPURTENANCES SHALL BE INSTALLED ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH THE CURRENT WSDOT STANDARD SPECIFICATIONS. THIS INCLUDES LEVELING THE TRENCH BOTTOM OR FOUNDATION MATERIAL, AND PLACING AND COMPACTING THE REQUIRED BEDDING MATERIAL TO ENSURE THE LENGTH OF THE PIPE IS SUPPORTED ON A UNIFORM, DENSE, AND STABLE BASE. OPEN CUT ROAD CROSSINGS FOR UTILITY TRENCHES SHALL BE BACKFILLED PER COK STANDARD PLAN CK-D.02 FOR STORM SEWER AND CK-S.01 FOR SANITARY SEWER. TRENCH BACKFILL SHALL BE COMPACTED TO 90% DENSITY IN ROADWAYS, SHOULDERS, ROADWAY PRISMS, AND DRIVEWAYS AND 85% DENSITY IN UNPAVED AREAS. PIPE COMPACTION SHALL BE 95%.
6. IF THE PAVEMENT, SIDEWALKS, CURB, OR GUTTER ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND TO MEET THE SAME STANDARDS AS THE NEW FACILITIES, WITH A SUITABLE, COMPACT FOUNDATION IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND PROJECT CONTRACT DOCUMENTS.
7. AT LEAST TWO COPIES OF THESE PLANS SHALL BE ON THE JOB SITE WHEN CONSTRUCTION IS IN PROGRESS. THE CONTRACTOR SHALL ALSO HAVE COPIES OF THE APPLICABLE REGULATORY AGENCY STANDARDS AVAILABLE AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS. ALL APPLICABLE PERMITS SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION ACTIVITY. ONE COMPLETE SET OF PROJECT PLANS WITH RECORDS OF AS-BUILT INFORMATION SHALL BE PROVIDED TO THE PROJECT ENGINEER AT THE END OF THE PROJECT.
8. THE CONTRACTOR SHALL COORDINATE ACTIVITIES OF ALL UTILITY PURVEYORS IMPACTED BY WORK FOR THIS PROJECT AND SHALL CONTACT THEM PRIOR TO CONSTRUCTION TO SCHEDULE WORK FOR PROVISIONS FOR AND BE RESPONSIBLE TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT AND KEEP IN SERVICE ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS DURING CONSTRUCTION.
9. UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO COMPLETE THE PROPOSED WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES. CUTTING AND PLUGGING OF LINES TO BE ABANDONED SHALL BE CONSIDERED INCIDENTAL TO OTHER WORK PERFORMED.
10. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A QUALIFIED SOILS ENGINEER AND/OR TESTING AGENCY TO PERFORM SUBGRADE/ BACKFILL DENSITY TESTS OR TO DIRECT THE REMOVAL AND REPLACEMENT OF ANY UNSUITABLE MATERIALS DURING CONSTRUCT/ON. A REPRESENTATIVE OF THE SOILS ENGINEER AND /OR TESTING AGENCY SHALL BE AVAILABLE TO OBSERVE AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS AS REQUIRED TO CERTIFY THE METHODS AND MATERIALS ARE IN ACCORDANCE WITH PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE THE APPROPRIATE SOILS INSPECTIONS AND TESTING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TRAFFIC CONTROL DURING CONSTRUCTION ADJACENT TO OR WITHIN ALL PUBLIC ROADWAYS. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY DISRUPT NORMAL TRAFFIC FLOW WILL REQUIRE A TRAFFIC CONTROL PLAN APPROVED BY THE CITY OF KIRKLAND. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS, TRAFFIC CONTOL REQUIREMENTS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. TRAFFIC CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.
12. ALL PIPE LENGTHS, STRUCTURE LOCATIONS, AND DEPTHS ARE MEASURED AT THE CENTER OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED.
13. THE CONTRACTOR SHALL PROMPTLY REPAIR ANY DAMAGE TO PUBLIC AND/ OR PRIVATE PROPERTY CAUSED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE CITY. REPAIRS MUST BE COMPLETED TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO PROJECT APPROVAL AND/ OR RELEASE OF THE PROJECT'S PERFORMANCE BOND.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, CONFINED SPACED PROTECTION, FLAGGERS, AND ANY OTHER NECESSARY MEASURES TO PROTECT THE HEALTH, SAFETY, AND WELL-BEING OF THE PUBLIC. IN ADDITION TO PROTECTING THE PROPERTY DURING THE PERFORMANCE OF THE WORK UNDER THE CONTRACT.
15. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE PROVIDED FOR REFERENCE. THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES DEPICTED ON THESE PLANS ARE BASED ON COK GIS DATA. THE CONTRACTOR MAY ENCOUNTER DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND THOSE SHOWN IN THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATIONS OF EXISTING UTILITIES, REGARDLESS OF WHETHER THEY ARE SHOWN ON THE PROJECT PLANS.
17. RECYCLED MATERIAL SHALL NOT BE USED FOR ANY TRENCH BACKFILL.

EXISTING LANDSCAPE NOTES

1. ALL EXISTING TREES WITHIN OR ADJACENT TO THE WORK AREA SHALL REMAIN, UNLESS OTHERWISE NOTED ON PLANS OF APPROVED BY THE PROJECT ENGINEER FOR REMOVAL.
2. THE CONTRACTOR SHALL SEQUENCE AND EXECUTE WORK AND EMPLOY ALL REASONABLE PROTECTION MEASURES TO LIMIT AND MINIMIZE DISTURBANCE TO EXISTING LANDSCAPE AREAS AND VEGETATION IN OR IN PROXIMITY TO THE WORK ZONE(S). DISTURBANCE TO EXISTING LANDSCAPE AND VEGETATION SHALL BE LIMITED TO ONLY THAT NECESSARY TO COMPLETE THE WORK. DISTURBED LANDSCAPE SHALL BE REPLACED AND/ OR RESTORED IN-KIND OR BETTER CONDITION.

CURED-IN-PLACE PIPE (CIPP) LINING NOTES

THE MEANS, METHODS, AND MATERIALS USED BY THE CONTRACTOR TO SUCCESSFULLY EXECUTE AND COMPLETE CIPP WORK IN ACCORDANCE WITH THE CONTRACT PLANS, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS 7-20 SHALL INCLUDE AND CONSIDER THE FOLLOWING EFFORTS AS SEQUENCED:

1. MECHANICALLY CLEAR AND CLEAN EXISTING PIPES TO BE REPAIRED, INCLUDING BUT NOT LIMITED TO, REMOTE CUTTING OF ALL ROOTS AND/OR PROTRUDING PIPE MATERIAL WITHIN THE FULL INSIDE DIAMETER AND LENGTH OF EXISTING PIPE AND REMOVE ALL DEBRIS AND SEDIMENT FROM EXISTING PIPE AS REQUIRED TO FACILITATE SUCCESSFUL FACILITY VIDEO INSPECTION AND SUBSEQUENT SUCCESSFUL CIPP LINER WORK.
2. FIELD VERIFY LENGTH AND DIAMETER OF SEWER MAIN PIPE TO BE REPAIRED AND NOTIFY CITY OF KIRKLAND UTILITIES DEPARTMENT INSPECTOR OF ANY DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND FIELD MEASUREMENTS PRIOR TO FINAL PROCUREMENT AND SUCCESSFUL DELIVERY OF CIPP LINER MATERIALS TO THE SITE.
3. PRIOR TO INSTALLING CIPP LINER, THE CONTRACTOR SHALL IMPLEMENT TEMPORARY SEWER BYPASS PUMPING SYSTEM PER THE APPROVED PLAN SUBMITTED.
4. PRIOR TO INSTALLING CIPP LINER, THE CONTRACTOR SHALL PREPARE THE PIPE IN ACCORDANCE WITH SPECIFICATION SECTION 7-20.7(3)D.
5. PREPARE PRE-CONSTRUCTION CCTV REPORT AND PROVIDE TO CITY. REPORT SHALL SPECIFICALLY IDENTIFY LOCATIONS AND PROVIDE IMAGES OF SEGMENTS OF PIPE THAT ARE DAMAGED, DETERIORATED, OR JOINT OFFSET TO AN EXTENT THAT CIPP CANNOT BE INSTALLED SUCCESSFULLY WITHOUT PIPE SPOT REPAIR IN THE JUDGEMENT OF THE CONTRACTOR. PIPE SPOT REPAIRS MAY CONSIST OF PATCH OR WHOLE REPLACEMENT OF DAMAGED PIPE SEGMENTS. THE PLANS SHOW LOCATIONS OF POTENTIAL SPOT REPAIRS BASED ON PREVIOUS MAINTENANCE VIDEOS THAT REQUIRE CONFIRMATION BY THE CONTRACTOR IN THE CCTV REPORT.
6. THE CONTRACTOR SHALL CONFIRM LATERAL CONNECTION(S) PRIOR TO CIPP INSTALLATION PER CCTV INSPECTION VIDEOS. THE CCTV SHALL CONFIRM WHICH LATERAL(S) ARE ACTIVE OR INACTIVE.
7. CIPP INSTALLATION SHALL BE COMPLETED FROM EXISTING MANHOLES IN-LIEU OF EXCAVATED ENTRY AND INSERTION PITS WHERE PRACTICAL.
8. CIPP LINER SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT PLANS, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS. IN ADDITION TO MANUFACTURER'S RECOMMENDATIONS AND ACCEPTED INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY CONFLICTS BETWEEN THE PROVISIONS OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S RECOMMENDATIONS OR INDUSTRY STANDARDS PRIOR TO COMMENCING ANY WORK.
9. COMPLETE POST-CONSTRUCTION CCTV VIDEO INSPECTION FOR EACH CIPP INSTALLATION PER SPECIFICATION SECTION 7-20.7(6)B.
10. AFTER THE CIPP LINER HAS CURED, THE CONTRACTOR SHALL CUT OUT AND REMOVE THE LINER WITHIN THE MANHOLE STRUCTURES. AFTER THE LINER IS CUT, A WATER TIGHT SEAL, ALSO KNOWN AS A HYDROPHILIC END SEAL, SHALL BE INSTALLED BETWEEN THE LINER/ PIPE AND THE STRUCTURAL WALL.
11. IN THE EVENT OF A SPILL, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE COK 24 HOUR SPILL RESPONSE NUMBER: (425-587-3900), AND THE ECOLOGY SPILL RESPONSE HOTLINE NUMBER: (800-258-5990). ADDITIONALLY, THE CITY PROJECT ENGINEER IS TO BE NOTIFIED IMMEDIATELY.

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

DATE	NO.	REVISION	BY
X/X/X	0	BID SET	

I-WEN YANG STATE OF WASHINGTON 23110 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY:

DATE:

I-WEN YANG, PE — DESIGNED BY — 2/6/2025 DATE

BEN MAHONY, EIT — DRAWN BY — 2/6/2025 DATE

GEORGE MINASSIAN, PE — REVIEWED BY — 2/6/2025 DATE

CITY OF KIRKLAND WASHINGTON

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

WEST OF MARKET SEWERMAIN REHABILTATION PILOT PROJECT

LEGEND, NOTES, AND ABBREVIATIONS

REFERENCE SHEET NO. C0.01

SHEET 2 OF 11

CITY OF KIRKLAND STANDARD PLAN NOTES

EROSION/ SEDIMENTATION CONTROL

1. THE APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
   a. CONDUCT PRE-CONSTRUCTION MEETING.
   b. FLAG OR FENCE CLEARING LIMITS.
   c. POST SIGN WITH NAME AND PHONE NUMBER OR 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. CONSTRUCTION SEDIMENT PONDS AND TRAPS.
   h. GRADE AND STABILIZE CONSTRUCTION ROADS.
   i. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
   j. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
   k. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
   l. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.
   m. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
   n. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
   o. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
2. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINANTS AT ALL TIMES AND FOR PREVENTING ALL 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 CHARGE ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED MONETARY PENALTIES (KMC 1,12,200). THE MINIMUM PENALTY IS $500. A FINE FOR A REPEAT VIOLATION SHALL BE MULTIPLIED 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.
3. CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORM WATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, ANT 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 (206-263-3000) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
4. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
5. 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.
6. 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.).
7. 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 IN PROGRESS.
8. A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. 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
10. 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.
11. 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 ANY ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
12. 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 THAT THEY 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 PASSSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 38 HOURS FOLLOWING A STORM EVENT.
14. 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.
15. 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.
16. 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).
17. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
18. 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.
19. 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.
20. 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.
21. 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%; 2" - 4" ROCK/ 30% - 40%; AND 1" - 2" ROCK/ 10% - 20% PASSING. RECYCLED CONCRETE SHALL NOT USED FOR EROSION PROTECTION, INCLUDING CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
22. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/ SEDIMENTATION CONTROL PLAN IS/ ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
23 ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
24 AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. AL 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.
25. 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.
26. ALL EROSION/ SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
27. 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.
28. PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
29. 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.
30. 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).
31. 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.
32. 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.
33. 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.
34. RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.

SANITARY SEWER

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 CONSTRUCTION AND MATERIALS SHALL CONFORM TO CITY OF KIRKLAND DEPARTMENT OF PUBLIC WORKS AND CURRENT WSDOT/APWA STANDARDS AND SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
3. 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 THEIR 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.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THEIR ACTIVITIES WITH LOCAL UTILITY COMPANIES TO ENSURE THAT ALL UTILITIES ARE INSTALLED ACCORDING TO THESE PLANS AND THE REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANIES.
5. PER COK PRE-APPROVED PLANS CK-S.16 AND CK-S.16A, ALL MANHOLES SHALL CONFORM TO WSDOT/APWA STANDARDS, ECCENTRIC CONES WITH MANUFACTURER-APPROVED GASKETS AND 1/2" POLYPROPYLENE-ENCAPSULATED SAFETY STEPS AND LADDERS. ALL MANHOLES SHALL HAVE CAST IRON RINGS AND DUCTILE IRON COVERS. LIDS SHALL CONFORM TO PRE-APPROVED PLANS CK-S.16 AND/ OR CK-S.16A.
6. ALL MAIN-LINE TRENCHES SHALL BE COMPACTED PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
7. PRESSURE TESTING OF GRAVITY SEWER MAINS SHALL CONFORM TO THE FOLLOWING STANDARDS: (1) AIR TESTING WILL REQUIRE A MINIMUM OF 4 PSI FOR 15 MINUTES WITH NO PRESSURE DROP; (2) WATER TESTING WILL REQUIRE A MINIMUM OF 10' OF HEAD IN A STANDPIPE AT THE TEST LOCATION FOR 15 MINUTES WITH NO DROP IN THE WATER LEVEL IN THE STANDPIPE. EITHER TEST IS ACCEPTABLE.
8. PRESSURE TESTING OF FORCE MAINS AND LATERALS WILL REQUIRE AN AIR TEST OF 25 PSI MINIMUM FOR 15 MINUTES WITH NO PRESSURE DROP.
9. NEW CONNECTIONS TO EXISTING MANHOLES OR SEWER LINES SHALL BE SEALED OFF UNTIL UPSTREAM CONSTRUCTION IS FINISHED, TESTED, CLEANED, AND ACCEPTED. ALL CONSTRUCTION DEBRIS AND WATER SHALL BE REMOVED PRIOR TO OPENING THE SEAL.
10. ALL PVC SEWER PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATIONS D-3034 FOR 4" TO 15" DIAMETER AND ASTM F679 FOR 18" TO 27" DIAMETER. PIPE SHALL BE SDR-35 AND SHALL CONFORM TO STANDARD SPECIFICATIONS. BEDDING AND BACKFILL SHALL MEET WSDOT AND APWA SPECIFICATIONS.
11. MINIMUM SLOPE FOR SIDE SEWERS SHALL BE TWO PERCENT (2%).
12. AN APPROVED COPY OF THE SEWER PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
13. PRIOR TO CONSTRUCTION OF SEWER LINES, THE NECESSARY LOT CORNERS MUST BE SET, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION OF PIPES, MANHOLES, AND INVERT ELEVATIONS.
14. PIPE ANCHORS, IF USED, SHALL BE INSTALLED: NOT OVER 36' CENTER TO CENTER ON GRADES FROM 20 PERCENT TO 35 PERCENT; NOT OVER 24' CENTER TO CENTER ON GRADES FROM 35 PERCENT TO 50 PERCENT; AND NOT OVER 16' CENTER TO CENTER ON GRADES 50 PERCENT AND GREATER.
15. ALL MANHOLES SHALL HAVE A MINIMUM OF 0.10' TO A MAXIMUM OF 1.00' DROP BETWEEN INVERT IN AND INVERT OUT.
16. PVC SEWER PIPE SHALL BE TESTED FOR DEFLECTION ACCORDING TO WSDOT/ APWA SPECIFICATIONS.
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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST ALL MANHOLE LIDS AND CLEANOUT LIDS TO MATCH FINAL ASPHALT ELEVATIONS IN ROADWAYS OR GROUND ELEVATIONS IN LANDSCAPED AREAS.
19. WHEN TYING INTO EXISTING MANHOLES THAT ARE BELOW MINIMUM STANDARDS, THE EXISTING MANHOLE MUST BE UPGRADED TO MEET CURRENT STANDARDS.
20. ALL NEW SEWER MAIN EXTENSIONS SHALL BE VIDEOED PRIOR TO FINAL ACCEPTANCE.
21. ALL FASTENERS (BOLTS, NUTS, WASHERS, ETC.) ON MANHOLE AND CATCH BASIN LIDS TO BE STANDARD SIZE. NO METRIC FASTENERS ALLOWED.

ROADWAY

1. ALL ROADWAY WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CURRENT APWA AND CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
2. ALL PUBLIC ROADWAYS SHALL BE CONSTRUCTED OF 2" CLASS "B" AC PAVING ON 4" ASPHALT-TREATED BASE (ATB), UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
3. A COPY OF THE APPROVED ROADWAY PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4. 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.
5. ANY ROADWAY SIGNAGE OR STRIPING REMOVED OR TEMPORARILY MOVED BY THE CONTRACTOR SHALL BE RESTORED TO MEET THE CURRENT CITY OF KIRKLAND STANDARDS.
6. 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.
7. 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.
8. ANY EXISTING PUBLIC IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO FINAL INSPECTION.
9. 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.
10. 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.
11. ALL ROCKERIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE MOST CURRENT GUIDELINES OF THE ASSOCIATION.

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

DATE	NO.	REVISION	BY
X/X/X	0	BID SET	

L-WEN YANG STATE OF WASHINGTON 23100256 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY:

DATE:

L-WEN YANG, PE DESIGNED BY	2/6/2025 DATE
BEN MAHONY, EIT DRAWN BY	2/6/2025 DATE
GEORGE MINASSIAN, PE REVIEWED BY	2/6/2025 DATE

CITY OF KIRKLAND WASHINGTON

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

WEST OF MARKET SEWERMAIN REHABILTATION PILOT PROJECT

CITY OF KIRKLAND STANDARD PLAN NOTES

REFERENCE SHEET NO. C0.02

SCALE IN FEET

200 100 0 200 400

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

DATE	NO.	REVISION	BY
X/X/X	0	BID SET	

I-WEN YANG STATE OF WASHINGTON 21800256 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY:

DATE:

I-WEN YANG, PE DESIGNED BY	2/6/2025 DATE
BEN MAHONY, EIT DRAWN BY	2/6/2025 DATE
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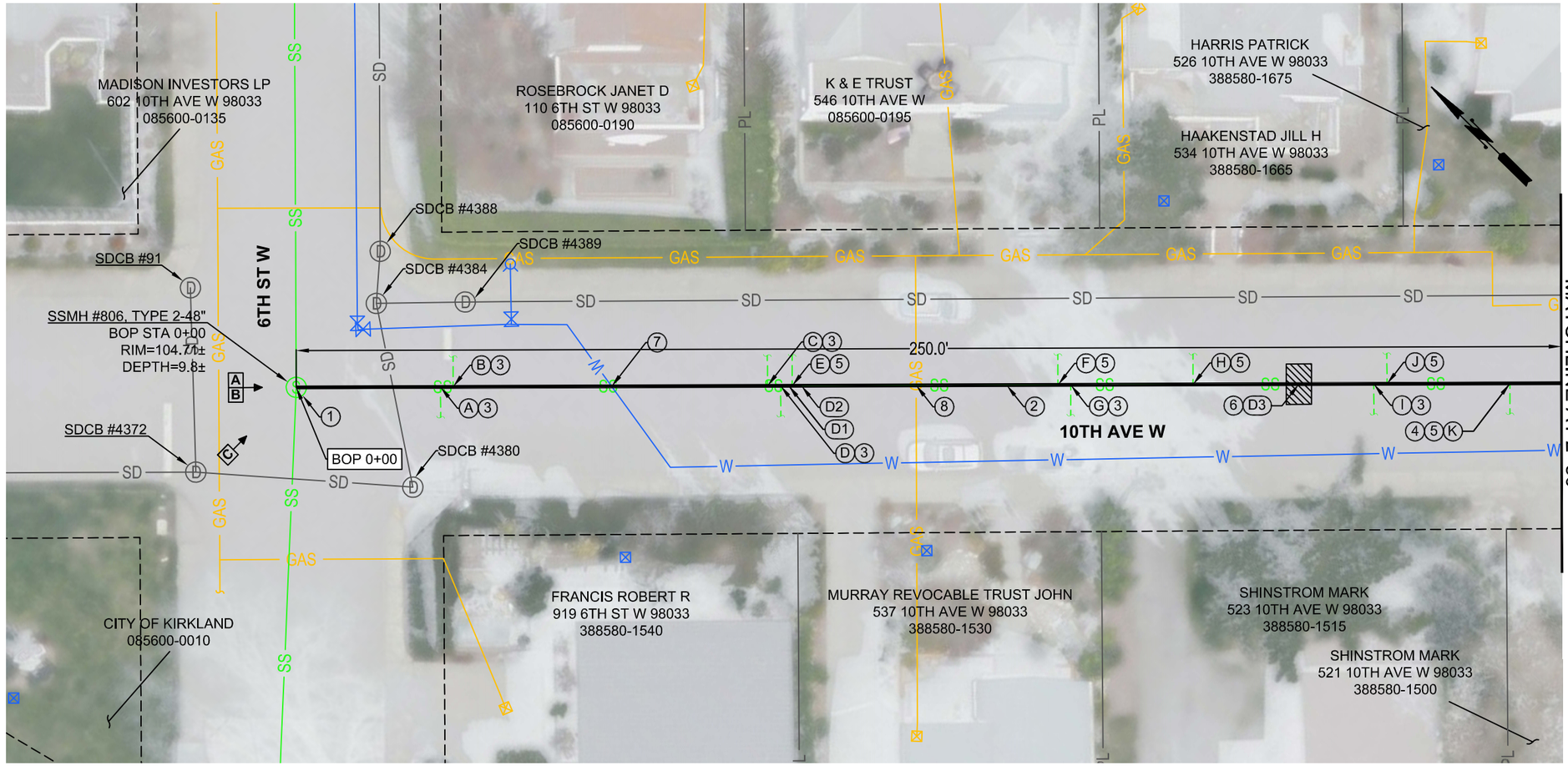
WEST OF MARKET SEWERMAIN REHABILTATION PILOT PROJECT

MASTER KEY PLAN

REFERENCE SHEET NO.
C1.01

SHEET 4 OF 11



SCALE IN FEET

25 12.5 0 25 50

LATERALS / PIPE DEFECTS TABLE:

LATERAL / PIPE DEFECT LABEL:	APPROXIMATE DISTANCE FROM SSMH #806, (LF):	DIRECTION / ORIENTATION OF SS LATERAL:		SS LATERAL PIPE DIAMETER:	SS LATERAL INTRUDING LENGTH:	SS LATERAL ACTIVITY STATUS:	PIPE SEGMENT DEFECT:
A	28.5	RIGHT (SW)	2 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
B	31.0	LEFT (NE)	11 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
C	93.1	LEFT (NE)	11 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
D	95.7	RIGHT (SW)	3 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
D1	97.3	-	-	-	-	-	MATERIAL CHANGE / JOINT OFFSET
E	98.0	LEFT (NE)	10 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
D2	99.8	-	-	-	-	-	MATERIAL CHANGE / JOINT OFFSET
F	150.5	LEFT (NE)	11 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
G	153.0	RIGHT (SW)	2 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
H	177.2	LEFT (NE)	10 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
D3	198.1	-	-	-	-	-	MEDIUM JOINT OFFSET
I	212.9	RIGHT (SW)	3 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
J	215.5	LEFT (NE)	11 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
K	239.8	RIGHT (SW)	1 O'CLOCK	4 - INCH	2 - INCH	ACTIVE	-

A SSMH #806 - VIEW SE
NOT TO SCALE

B SSMH #806 - VIEW SE
NOT TO SCALE

C SSMH #806 - VIEW E
NOT TO SCALE

CONSTRUCTION NOTES:

1. EXISTING MANHOLE STRUCTURE, FRAME, AND GRATE TO REMAIN.
2. CIPP EXISTING SANITARY SEWER PIPE, NOMINAL SIZE PIPE AND APPROX. LENGTH PER PLAN; SEE CIPP NOTES ON SHEET C0.01.
3. EXISTING INACTIVE SS LATERAL TO REMAIN AS IS.
4. PROTRUDING AND EXISTING SS LATERAL TO BE CUT FLUSH WITH EXISTING SS MAIN PIPE PRIOR CIPP LINING.
5. ACTIVE LATERAL TO BE REINSTATED AFTER THE COMPLETION OF CIPP LINING OF THE SS MAIN PIPE.
6. SPOT REPAIR, SEE SPEC 7-20.7(3)E FOR CONSTRUCTION REQUIREMENT. IF A LATERAL RECONNECTION IS NEEDED, CUT AND SECTION THE PIPE AND INSTALL A TEE/WYE AND NIPPLE(S) WITH ROMAC RX5001 COUPLING OR EQUIVALENT. RECONNECT ALL MAIN PIPE JOINTS USING RIGID COUPLINGS, SUCH AS MAXADAPTOR MAX SERIES-MAX 6 OVERSIZE OR EQUIVALENT.
7. PROTECT EXISTING BURIED UTILITY, SEE NOTE 1.
8. PROTECT EXISTING BURIED POWER AND /OR FRANCHISE UTILITY, SEE NOTE 1.

GENERAL NOTES:

1. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE GIS, FIELD OBSERVATIONS, AND UTILITY LOCATES. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.
2. SEWER STRUCTURE DATA AND LOCATIONS SHOWN ARE APPROXIMATE BASED ON AVAILABLE CITY GIS AND AS-BUILT RECORDS. THE CONTRACTOR SHALL CONDUCT PIPE AND SITE VERIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION.
3. CITY SHALL COORDINATE AND SECURE ANY NECESSARY AGREEMENTS AND/ OR EASEMENT WITH PROPERTY PRIOR TO ANY WORK ON PRIVATE PROPERTY. NO WORK SHALL BE PERFORMED OUTSIDE OF THE RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION BY THE ENGINEER.
4. IF DISTURBED, HMA PAVEMENT SECTION SHALL BE REPLACED PER PRE-APPROVED PLAN NO. CK-R.12.
5. SITE AND SEWER STRUCTURE IMAGES PROVIDED WITH THESE PLANS AND APPENDIX A OF THE SPECIAL PROVISIONS ARE FOR REFERENCE ONLY AND ARE INTENDED TO ILLUSTRATE EXISTING SITE CONDITIONS AT SPECIFIC LOCATIONS OF THE PROJECT TO AID THE CONTRACTOR IN WORK PLANNING EFFORTS. THEY DO NOT REPRESENT ALL SITE CONDITIONS AFFECTING THE WORK OR REQUIRING CONSIDERATION BY THE CONTRACTOR AND SHOULD NOT BE RELIED UPON FOR BIDDING PURPOSES.
6. THE CONTRACTOR SHALL IMPLEMENT AND INSTALL TESC AS REQUIRED FOR THE WORK TO COMPLY WITH CITY STANDARDS AND PROJECT SPECIFICATIONS FOR EROSION AND WATER CONTROL. WHEN REQUIRED THE CONTRACTOR SHALL IMPLEMENT AND INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND TYPICAL BMP FACILITIES (TESC) INCLUDING, BUT NOT LIMITED TO THE CITY STANDARD PLAN NOTES ON SHEET C0.02 AND PRE-APPROVED PLANS ARE INCIDENTAL TO THE WORK.
7. THE LOCATION OF THE ACTIVE SEWER LATERAL(S) SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE CITY AND THE ENGINEER FOR APPROVAL AT A MINIMUM OF TWO WEEKS PRIOR TO BEGINNING THE WORK.
2. ACCESS TO ANY EXISTING DRIVEWAYS AND PEDESTRIAN ROUTES/ FACILITIES SHALL BE MAINTAINED AT ALL TIMES.

LEGEND:

- PROPOSED EXISTING SANITARY SEWER PIPE TO CIPP LINE
- APPROXIMATE SPOT REPAIR LOCATION
- EXISTING SANITARY SEWER LATERAL PIPE (12 O'CLOCK ORIENTATION)
- EXISTING SANITARY SEWER LATERAL PIPE
- SS — EXISTING SANITARY SEWER PIPE
- EXISTING SANITARY SEWER MANHOLE
- SD — EXISTING STORM DRAIN PIPE
- EXISTING STORM DRAIN CATCH BASIN
- W — EXISTING WATER PIPE UTILITY
- EXISTING WATER METER UTILITY
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE UTILITY
- EXISTING RIGHT-OF-WAY LINE
- PL — EXISTING PROPERTY LINE
- GAS — EXISTING GAS UTILITY
- EXISTING GAS METER UTILITY
- X — SITE IMAGE REF., SEE NOTE X

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

DATE	NO.	REVISION	BY
X/X/X	0	BID SET	

L-WEN YANG STATE OF WASHINGTON 21800236 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY:

DATE:

I-WEN YANG, PE DESIGNED BY	2/6/2025 DATE
BEN MAHONY, EIT DRAWN BY	2/6/2025 DATE
GEORGE MINASSIAN, PE REVIEWED BY	2/6/2025 DATE

CITY OF KIRKLAND WASHINGTON

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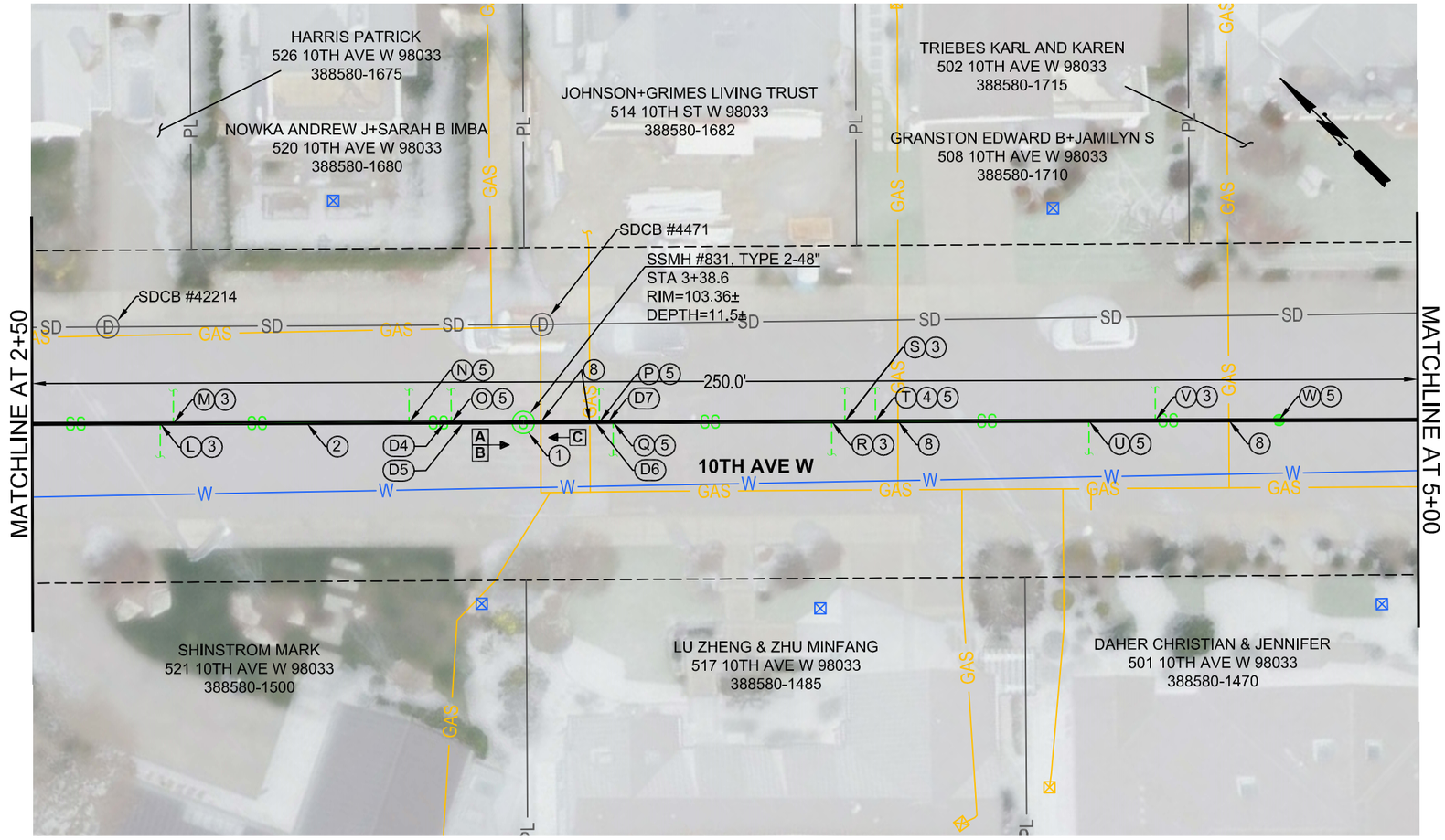
WEST OF MARKET SEWERMAIN REHABILTATION PILOT PROJECT

BOP STA 0+00 TO STA 2+50

REFERENCE SHEET NO. C1.02

SHEET 5 OF 11



SCALE IN FEET

25 12.5 0 25 50

LATERALS / PIPE DEFECTS TABLE:

LATERAL / PIPE DEFECT LABEL:	APPROXIMATE DISTANCE FROM SSMH #806, (LF):	DIRECTION / ORIENTATION OF SS LATERAL:		SS LATERAL PIPE DIAMETER:	SS LATERAL INTRUDING LENGTH:	SS LATERAL ACTIVITY STATUS:	PIPE SEGMENT DEFECT:
L	273.1	RIGHT (SW)	2 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
M	275.5	LEFT (NE)	1 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
N	318.0	LEFT (NE)	10 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
D4	324.4	-	-	-	-	-	MATERIAL CHANGE / JOINT OFFSET
O	325.6	LEFT (NE)	9 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
D5	326.8	-	-	-	-	-	MATERIAL CHANGE / JOINT OFFSET

LATERAL / PIPE DEFECT LABEL:	APPROXIMATE DISTANCE FROM SSMH #831, (LF):	DIRECTION / ORIENTATION OF SS LATERAL:		SS LATERAL PIPE DIAMETER:	SS LATERAL INTRUDING LENGTH:	SS LATERAL ACTIVITY STATUS:	PIPE SEGMENT DEFECT:
D6	12.9	-	-	-	-	-	MATERIAL CHANGE / JOINT OFFSET
P	13.7	LEFT (NE)	9 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
D7	15.3	-	-	-	-	-	MATERIAL CHANGE / JOINT OFFSET
Q	16.2	RIGHT (SW)	1 O'CLOCK	4 - INCH	0 - INCH	ACTIVE	-
R	55.6	RIGHT (SW)	3 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
S	58.0	LEFT (NE)	11 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
T	63.5	LEFT (NE)	10 O'CLOCK	4 - INCH	3 - INCH	ACTIVE	-
U	102.0	RIGHT (SW)	1 O'CLOCK	6 - INCH	0 - INCH	ACTIVE	-
V	114.0	LEFT (NE)	11 O'CLOCK	6 - INCH	0 - INCH	INACTIVE / CAPPED	-
W	136.3	CENTER	12 O'CLOCK	4 - INCH	0 - INCH	ACTIVE	-

A SSMH #831 - VIEW SE
NOT TO SCALE

B SSMH #831 - VIEW SE
NOT TO SCALE

C SSMH #831 - VIEW NW
NOT TO SCALE

CONSTRUCTION NOTES:

1. EXISTING MANHOLE STRUCTURE, FRAME, AND GRATE TO REMAIN.
2. CIPP EXISTING SANITARY SEWER PIPE, NOMINAL SIZE PIPE AND APPROX. LENGTH PER PLAN; SEE CIPP NOTES ON SHEET C0.01.
3. EXISTING INACTIVE SS LATERAL TO REMAIN AS IS.
4. PROTRUDING AND EXISTING SS LATERAL TO BE CUT FLUSH WITH EXISTING SS MAIN PIPE PRIOR CIPP LINING.
5. ACTIVE LATERAL TO BE REINSTATED AFTER THE COMPLETION OF CIPP LINING OF THE SS MAIN PIPE.
6. SPOT REPAIR, SEE SPEC 7-20.7(3)E FOR CONSTRUCTION REQUIREMENT. IF A LATERAL RECONNECTION IS NEEDED, CUT AND SECTION THE PIPE AND INSTALL A TEE/WYE AND NIPPLE(S) WITH ROMAC RX5001 COUPLING OR EQUIVALENT. RECONNECT ALL MAIN PIPE JOINTS USING RIGID COUPLINGS, SUCH AS MAXADAPTOR MAX SERIES-MAX 6 OVERSIZE OR EQUIVALENT.
7. PROTECT EXISTING BURIED UTILITY, SEE NOTE 1.
8. PROTECT EXISTING BURIED POWER AND /OR FRANCHISE UTILITY, SEE NOTE 1.

GENERAL NOTES:

1. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE GIS, FIELD OBSERVATIONS, AND UTILITY LOCATES. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION.
2. SEWER STRUCTURE DATA AND LOCATIONS SHOWN ARE APPROXIMATE BASED ON AVAILABLE CITY GIS AND AS-BUILT RECORDS. THE CONTRACTOR SHALL CONDUCT PIPE AND SITE VERIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION.
3. CITY SHALL COORDINATE AND SECURE ANY NECESSARY AGREEMENTS AND/ OR EASEMENT WITH PROPERTY PRIOR TO ANY WORK ON PRIVATE PROPERTY. NO WORK SHALL BE PERFORMED OUTSIDE OF THE RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION BY THE ENGINEER.
4. IF DISTURBED, HMA PAVEMENT SECTION SHALL BE REPLACED PER PRE-APPROVED PLAN NO. CK-R.12.
5. SITE AND SEWER STRUCTURE IMAGES PROVIDED WITH THESE PLANS AND APPENDIX A OF THE SPECIAL PROVISIONS ARE FOR REFERENCE ONLY AND ARE INTENDED TO ILLUSTRATE EXISTING SITE CONDITIONS AT SPECIFIC LOCATIONS OF THE PROJECT TO AID THE CONTRACTOR IN WORK PLANNING EFFORTS. THEY DO NOT REPRESENT ALL SITE CONDITIONS AFFECTING THE WORK OR REQUIRING CONSIDERATION BY THE CONTRACTOR AND SHOULD NOT BE RELIED UPON FOR BIDDING PURPOSES.
6. THE CONTRACTOR SHALL IMPLEMENT AND INSTALL TESC AS REQUIRED FOR THE WORK TO COMPLY WITH CITY STANDARDS AND PROJECT SPECIFICATIONS FOR EROSION AND WATER CONTROL. WHEN REQUIRED THE CONTRACTOR SHALL IMPLEMENT AND INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND TYPICAL BMP FACILITIES (TESC) INCLUDING, BUT NOT LIMITED TO THE CITY STANDARD PLAN NOTES ON SHEET C0.02 AND PRE-APPROVED PLANS ARE INCIDENTAL TO THE WORK.
7. THE LOCATION OF THE ACTIVE SEWER LATERAL(S) SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE CITY AND THE ENGINEER FOR APPROVAL AT A MINIMUM OF TWO WEEKS PRIOR TO BEGINNING THE WORK.
2. ACCESS TO ANY EXISTING DRIVEWAYS AND PEDESTRIAN ROUTES/ FACILITIES SHALL BE MAINTAINED AT ALL TIMES.

LEGEND:

- PROPOSED EXISTING SANITARY SEWER PIPE TO CIPP LINE
- APPROXIMATE SPOT REPAIR LOCATION
- EXISTING SANITARY SEWER LATERAL PIPE (12 O'CLOCK ORIENTATION)
- EXISTING SANITARY SEWER LATERAL PIPE
- SS — EXISTING SANITARY SEWER PIPE
- EXISTING SANITARY SEWER MANHOLE
- SD — EXISTING STORM DRAIN PIPE
- EXISTING STORM DRAIN CATCH BASIN
- W — EXISTING WATER PIPE UTILITY
- EXISTING WATER METER UTILITY
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE UTILITY
- EXISTING RIGHT-OF-WAY LINE
- PL — EXISTING PROPERTY LINE
- GAS — EXISTING GAS UTILITY
- EXISTING GAS METER UTILITY
- X — SITE IMAGE REF., SEE NOTE X

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

DATE	NO.	REVISION	BY
X/X/X	0	BID SET	

I-WEN YANG STATE OF WASHINGTON 21800295 REGISTERED PROFESSIONAL ENGINEER

APPROVED BY:

DATE:

I-WEN YANG, PE — DESIGNED BY — 2/6/2025 DATE
BEN MAHONY, EIT — DRAWN BY — 2/6/2025 DATE
GEORGE MINASSIAN, PE — REVIEWED BY — 2/6/2025 DATE

CITY OF KIRKLAND WASHINGTON

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

WEST OF MARKET SEWERMAIN REHABILTATION PILOT PROJECT

STA 2+50 TO STA 5+00

REFERENCE SHEET NO. C1.03

SHEET 6 OF 11