

B1ST AVE SE & SE 24TH ST

DATUM

HORIZONTAL DATUM:
NAD 83/11 PER GPS HXGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND MONUMENT '8388'

VERTICAL DATUM:
NAVD 88 PER GPS HXGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND MONUMENT '8388'

ORIGINATING BENCHMARK:
CITY OF MERCER ISLAND MONUMENT '8388'. FOUND INVERTED NAIL IN CONC. MONUMENT IN CASE, 0.6' BELOW RIM, LOCATED AT THE INTERSECTION OF SE 24TH ST & B1ST AVE SE. ELEVATION: 99.72'

TEMPORARY BENCHMARKS

TBM 'A'
SET A RAILROAD SPIKE IN THE NORTHWEST FACE OF UTILITY POLE WITH UNDERGROUND CONDUIT LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF SE 24TH ST & B1ST AVE SE., 0.5' ABOVE GRADE. ELEVATION: 103.59'

TBM 'B'
AT NAIL IN CONCRETE IN MONUMENT CASE, 0.6' BELOW RIM, LOCATED AT THE INTERSECTION OF THE CENTERLINES FOR B1ST AVE SE & N. MERCER WAY. ELEVATION: 102.96'

SURVEY NOTES

GIS PARCEL NOTE:
PARCEL LINES AS SHOWN ARE FROM KING COUNTY GIS INFORMATION. NOTE THAT IT IS ONLY A SCHEMATIC REPRESENTATION FOR CONVENIENCE IN INTERPRETING THE TOPOGRAPHY. IT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED ON AS SUCH.

EQUIPMENT NOTES:
PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC TS16 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON SEPTEMBER 23, 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES. FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY DRAWINGS INDICATING REPORTED UTILITY INSTALLATIONS. OTHER UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN FOR VERIFICATION.

2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION.

THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.

B2ND AVE SE

DATUM

HORIZONTAL DATUM:
NAD 83/11 PER GPS HXGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND MONUMENT '8388'

VERTICAL DATUM:
NAVD 88 PER GPS HXGN SMARTNET AS VERIFIED TO CITY OF MERCER ISLAND MONUMENT '8388'

ORIGINATING BENCHMARK:
CITY OF MERCER ISLAND MONUMENT '8388'. FOUND INVERTED NAIL IN CONC. MONUMENT IN CASE, 0.6' BELOW RIM, LOCATED AT THE INTERSECTION OF SE 24TH ST & B1ST AVE SE. ELEVATION: 99.72'

TEMPORARY BENCHMARKS

TBM 'A'
SET A RAILROAD SPIKE IN THE NORTHWEST FACE OF UTILITY POLE WITH UNDERGROUND CONDUIT LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF SE 24TH ST & B1ST AVE SE., 0.5' ABOVE GRADE. ELEVATION: 103.59'

TBM 'B'
SET CHISELED SQUARE AT THE NORTHWEST CORNER CONCRETE PAD FOR POWER TRANSFORMER LOCATED ON THE EASTERLY SIDE OF B2ND AVE SE, ± AT THE NORTHWESTERLY CORNER OF PARCEL FOR HOUSE NO. 2060. ELEVATION: 165.41'

TBM 'C'
AT PUNCH IN 1/2" BRASS PLUG IN CONC. MONUMENT IN CASE, 1.0' BELOW RIM, LOCATED AT THE CENTER CUL-DE-SAC AT THE NORTH END OF B2ND AVE SE. ELEVATION: 135.14'

SURVEY NOTES

GIS PARCEL NOTE:
PARCEL LINES AS SHOWN ARE FROM KING COUNTY GIS INFORMATION. NOTE THAT IT IS ONLY A SCHEMATIC REPRESENTATION FOR CONVENIENCE IN INTERPRETING THE TOPOGRAPHY. IT IS NOT A BOUNDARY SURVEY AND SHOULD NOT BE RELIED ON AS SUCH.

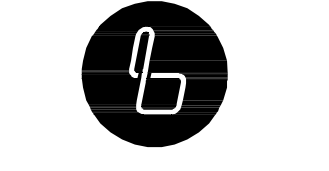
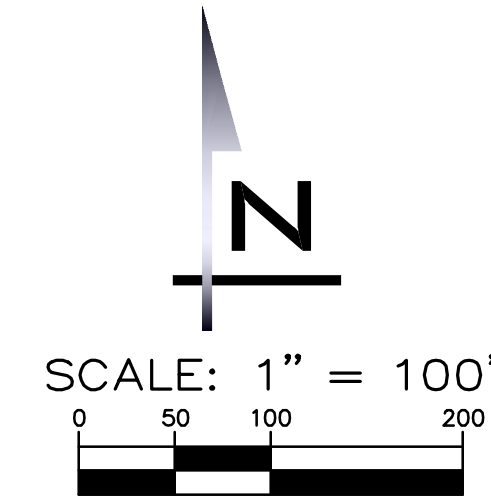
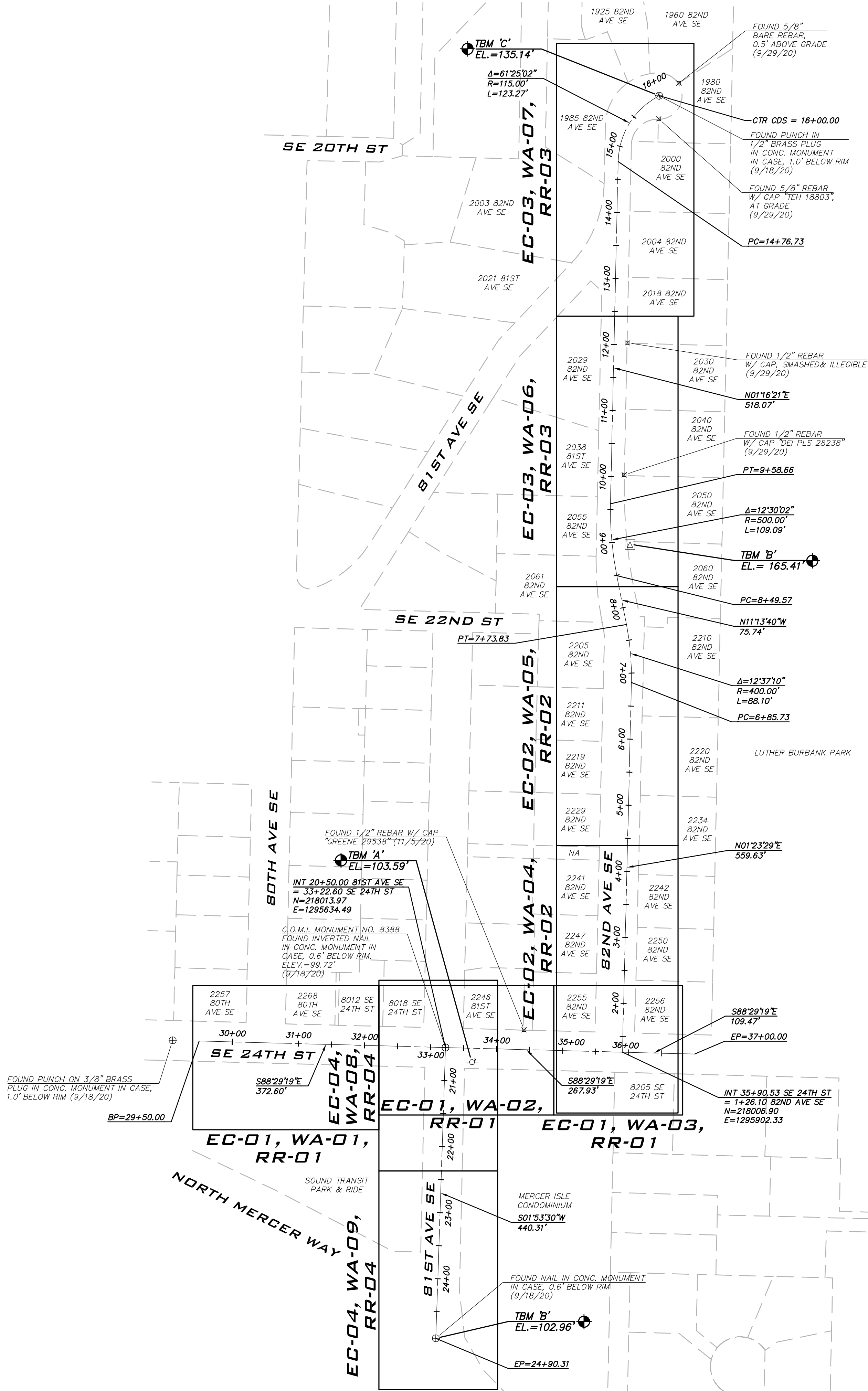
EQUIPMENT NOTES:
PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC TS16 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

NOTES:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON OCTOBER 7, 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES. FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY DRAWINGS INDICATING REPORTED UTILITY INSTALLATIONS. OTHER UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN FOR VERIFICATION.

2' CONTOURS INTERVAL DERIVED FROM DIRECT FIELD OBSERVATION.

THIS SURVEY MEETS UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR VERTICAL ACCURACY OF ONE HALF THE CONTOUR INTERVAL.



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
DEANNA L. MARTIN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
2/23/2021

NO	DATE	BY	REVISIONS

KEY MAP & ALIGNMENT PLAN
2021 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



2/23/21
JOB NUMBER:
20-286
SHEET NAME:
GN-01

SHT **2** OF **26**

SURVEY NOTATIONS

TBM = TEMPORARY BENCH MARK
AXIS SURVEY CONTROL POINTS ARE HEREBY PROVIDED AS A COURTESY ONLY. EACH POINT SHOULD BE SURVEYED AND VERIFIED INDEPENDENTLY BEFORE BEING UTILIZED FOR ANY REASON. NEITHER AXIS SURVEY OR BLUELINE MAKES ANY WARRANTY AS TO USEFULNESS OR ACCURACY RELATED TO THESE POINTS.

LEGEND			
PROPOSED FEATURES			
—	STORM DRAIN PIPE	□	METER AND/OR METER BOX
—	WATER MAIN	⊕	FIRE HYDRANT
■	TYPE I CB - STANDARD GRATE	⊕	AIR/VAC RELEASE VALVE
—	PIPE FLOW	⊕	BLOW OFF
>	CULVERT END	⊕	VERTICAL BEND
⊕	TEE W/ CONC BLOCKING	⊕	INTERIM CATCH BASIN PROTECTION (INSERT)
⊕	BEND W/ CONC BLOCKING	⊕	STRAW WATTLE
⊕	SLEEVE		
⊕	GATE VALVE		
EXISTING FEATURES			
---	PARCEL LINE	□	CATCH BASIN, TYPE I
---	RIGHT-OF-WAY	□	CATCH BASIN, TYPE II
---	CENTERLINE	△	SD PIPE FLOW
---	SURFACE FEATURES	△	YARD DRAIN
---	FLOWLINE	△	STORM CULVERT END
---	10' CONTOURS	⊕	FIRE HYDRANT
---	2' CONTOURS	⊕	WATER METER
---	SD - STORM DRAIN PIPE	⊕	GATE VALVE
---	SS - SEWER MAIN	⊕	WATER MANHOLE
---	FM - SEWER FORCE MAIN	⊕	WATER VAULT
---	W - WATER MAIN	⊕	IRRIGATION VALVE
---	AMP - AERIAL POWER LINE	⊕	WATER INDICATOR POST
---	P - BURIED POWER LINE	⊕	MONITOR WELL
---	G - GAS MAIN	⊕	UNKNOWN UTILITY MANHOLE
---	C - BURIED CABLE	⊕	TELECOMM RISER
---	T - BURIED TELEPHONE LINE	⊕	TELECOMM JUNCTION BOX
---	FO - BURIED FIBER OPTIC CABLE	⊕	TV RISER
---	X - FENCE	⊕	MAIL BOX
---	RETAINING WALL	⊕	SIGN
---	ROCKERY	⊕	CONIFEROUS TREE
---	EDGE OF LANDSCAPE	⊕	DECIDUOUS TREE
---	DRIP LINE	⊕	SHRUB
---	DITCH OR SWALE	⊕	ASPHALT
○	SEWER MANHOLE	⊕	CONCRETE
△	SS PIPE FLOW	⊕	GRAVEL
⊕	GUY ANCHOR	⊕	
⊕	STREET LIGHT	⊕	
⊕	POLE LIGHT	⊕	
⊕	POWER METER	⊕	
⊕	TRANSFORMER	⊕	
⊕	JUNCTION BOX	⊕	
⊕	POWER VAULT	⊕	
⊕	STREET LIGHT VAULT	⊕	
⊕	POWER POLE	⊕	
⊕	POWER POLE W/ TRANSFORMER	⊕	
⊕	POWER POLE W/ UNDERGROUND CONDUIT	⊕	
⊕	POWER POLE W/ TRANSFORMER & UNDERGROUND CONDUIT	⊕	

POTHOLE DATA

POTHOLE #	TARGET UTILITY	DEPTH TO TOP OF UTILITY (INCHES)	DEPTH TO BOTTOM OF UTILITY (INCHES)	PIPE CONDUIT SIZE (INCHES)	PIPE MATERIAL	PAVEMENT THICKNESS
1	GAS	42.5"	46.5"	4"	PE	9" ASPHALT
2	GAS	44"	48"	4"	PE	9.5" ASPHALT
3	GAS	36"	40"	4"	PE	N/A
4	GAS	33"	34 1/4"	1 1/4"	PE	7.5" ASPHALT
5	GAS	40"	44"	4"	PE	4" ASPHALT

GENERAL NOTES

- ALL MATERIALS AND WORK SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF MERCER ISLAND STANDARD PLANS AND SPECIFICATIONS IN CONJUNCTION WITH THE APPLICABLE SECTIONS OF THE 2019 EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
- A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, DRIVEWAYS, AND CURBS THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED AS REQUIRED BY THE CITY OF MERCER ISLAND INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE CITY 21 DAYS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE.
- ALL LOCATIONS OF EXISTING UTILITIES AND SERVICE CONNECTIONS SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY, G.I.S., OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (8-1-1) AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP OFF-SITE STREETS CLEAN AT ALL TIMES BY SWEEPING, WASHING OF THESE STREETS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF MERCER ISLAND.
- THE CONTRACTOR SHALL SECURE ALL LOADS PER RCW 46.61.655.
- PROTECT ALL LANDSCAPING AND TREES FROM DAMAGE UNLESS SPECIFICALLY CALLED OUT ON PLANS TO BE REMOVED. REPLACE ALL TREES, LANDSCAPING, AND LANDSCAPING IRRIGATION DAMAGED OR DESTROYED DURING CONSTRUCTION.
- TRIM OR REMOVE PLANTS, IF NEEDED, TO ACCOMMODATE THE RELOCATION OF HYDRANTS AND METER BOXES. PROVIDE LANDSCAPE RESTORATION TO MATCH EXISTING SURROUNDINGS.
- PROVIDE HYDROSEED FOR ALL UNPAVED AND NON-GRAVEL AREAS DISTURBED DURING CONSTRUCTION.
- NO EXPOSED EXCAVATION IS ALLOWED OVERNIGHT. STEEL PLATES MAY BE USED ONLY FOR PRE-DIGGING CONNECTIONS OR WHEN CDF IS REQUIRED AS BACKFILL. WHEN USING TEMPORARY STEEL PLATES, THEY SHALL BE RAMPED WITH TEMPORARY HOT MIX ASPHALT AND THE CONSTRUCTION AREA SHALL BE SIGNED AT THE END OF THE WORKING DAY. UNLESS USING STEEL PLATES, BACKFILL TO GRADE AND PROVIDE 2" TEMPORARY PATCH AT THE END OF EACH WORK DAY. ASPHALT GRINDINGS MAY BE USED AS TEMP PATCH MONDAY-THURSDAY, WITH 2" HMA PATCH PROVIDED ON FRIDAYS. IN THE EVENT OF INCLEMENT WEATHER, THE INSPECTOR MAY REQUIRE 2" HMA PATCH BE PROVIDED MORE FREQUENTLY.

TRAFFIC CONTROL NOTES

- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY OF MERCER ISLAND PRIOR TO BEGINNING CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF MERCER ISLAND.
- ALL TRAFFIC CONTROL DEVICES SHALL MEET THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES STANDARDS.
- CONTRACTOR SHALL NOTIFY KING COUNTY METRO AT 206-684-2732 SEVEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS.
- THE CONTRACTOR SHALL PROVIDE EMERGENCY VEHICLE ACCESS TO ALL PROPERTIES ADJACENT TO THE PROJECT AT ALL TIMES.

TESC NOTES

- THE CONTRACTOR SHALL HAVE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) MEASURES IN PLACE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM. AS CONSTRUCTION PROGRESSES AND UNEXPECTED (SEASONAL) CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED TO INSURE COMPLETE SILTATION CONTROL OF THE PROJECT. 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 THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
- THE CITY MAY DIRECT MAINTENANCE AND REPAIR OF TESC FACILITIES AS THE HIGHEST PRIORITY WORK AT ANY TIME. THE TESC FACILITIES DO NOT MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

GENERAL WATER NOTES

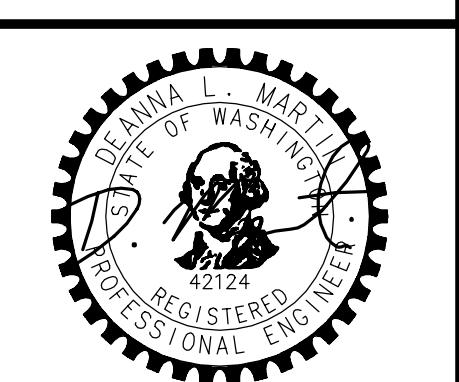
- LOCATIONS SHOWN FOR EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. UTILITIES HAVING NO RECORDED DEPTH ARE SHOWN AT THEIR STANDARD DEPTH. UTILITIES THAT APPEAR CLOSE TO THE PROPOSED WATER MAIN SHALL BE EXPLORED BY THE CONTRACTOR PRIOR TO LAYING THE WATER MAIN TO DETERMINE IF CHANGES ARE NEEDED.
- ALL MATERIAL FOR WATER DISTRIBUTION SHALL BE NEW.
- PIPE 4" AND LARGER SHALL BE D.I.P. CL. 52 CONFORMING TO AWWA C-151 WITH CEMENT MORTAR LINING CONFORMING TO AWWA C-104. UNLESS OTHERWISE NOTED, JOINTS SHALL BE MECHANICAL OR SLIP JOINT.
- ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C-110 AND C-111, OR AWWA C-153, AND SHALL BE CEMENT MORTAR LINED CONFORMING TO AWWA C-104. THRUST RESTRAINT REQUIRED AT ALL FITTINGS AND AT LOCATIONS INDICATED IN PLANS.
- PRIOR TO LAYING PIPE THE CONTRACTOR SHALL:
 - IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, EXPOSE THE EXISTING WATER MAIN TO DETERMINE ITS ELEVATION AND ALIGNMENT.
 - PROVIDE ALL STAKING REQUIRED TO DEFINE THE ALIGNMENT AND ELEVATIONS OF THE WATER MAIN IN CONFORMANCE WITH THE APPROVED PLAN. THE SURVEYS SHALL BE PERFORMED BY A SURVEYOR LICENSED BY THE STATE OF WASHINGTON. ALL REFERENCE MARKS SHALL BE PRESERVED DURING CONSTRUCTION. A GRADE SHEET, IN ACCEPTABLE FORMAT, SHALL BE PROVIDED PRIOR TO BEGINNING WORK.
 - THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES AT LEAST 500' AHEAD OF THE PIPE LAYING OPERATION TO ALLOW THE REQUIRED CLEARANCES TO BE ACHIEVED BY DEFLECTING THE WATER LINE AT THE JOINTS.
 - THE CONTRACTOR SHALL NOTIFY ALL OWNERS OF ALL AFFECTED UNDERGROUND UTILITIES A MINIMUM OF 2 BUSINESS DAYS BEFORE FIELD LOCATING THEIR UTILITIES. THE ONE CALL NOTIFICATION NUMBER IS 1-800-424-5555.
- CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS AND FORCE SEWER MAINS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL DUCTILE IRON PIPE IN PLACE OF ANY OTHER SANITARY SEWER PIPE MATERIAL WHERE SANITARY SEWERS ARE LOCATED ABOVE AND ANY CLOSER THAN 10 FEET, OR CROSS OVER ANY WATER LINE.
- ALL WATER MAINS SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ALL PRESSURE TESTING SHALL BE DONE IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR. THE CONTRACTOR IS TO PROVIDE PLUGS AND TEMPORARY BLOWOFF ASSEMBLIES FOR PRESSURE TESTING AND DISINFECTION. A SATISFACTORY LAB RESULT FOR THE WATER SAMPLES COLLECTED AFTER THE FLUSHING SHALL BE RECEIVED BY THE CITY PRIOR TO PUTTING THE MAIN INTO SERVICE.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS ISSUED FOR THIS PROJECT.
- THRUST BLOCKING SHALL BE PROVIDED FOR ALL TEES, BENDS, CAPS, DEAD-ENDS, AND CROSSES, AND SHALL COMPLY WITH CITY OF MERCER ISLAND STANDARD DETAIL W-5A. IF CONFLICTING UTILITIES PREVENT THE USE OF A THRUST BLOCK IN COMPLIANCE WITH THE STANDARD DETAIL, THE CONTRACTOR SHALL INSTALL ROMAC PIPE RESTRAINTERS AS APPROVED BY THE ENGINEER.
- WATER MAIN SHUT-OFF SHALL BE COORDINATED WITH THE CITY OF MERCER ISLAND. 21 DAYS ADVANCED NOTICE IS REQUIRED. REFER TO SPECIFICATION SECTIONS 7-09.3(19)A AND 7-09.3(19)B.
- ALL WATER SERVICE PIPING MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
- WATER SERVICE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF MERCER ISLAND SPECIFICATIONS SECTION 7-15, STANDARD DETAILS W-13, W-14, AND W-14A, AND APPLICABLE WSDOT STANDARDS.
- PROVIDE FITTINGS, BENDS, AND BLOCKING AS REQUIRED TO MAKE SERVICE CONNECTION.
- PROVIDE ALL GATE VALVES WITH WATER VALVE BOXES PER MERCER ISLAND STANDARD DETAILS W-7 AND W-8. IF REQUIRED, INSTALL WATER VALVE EXTENSIONS PER MERCER ISLAND STANDARD DETAIL W-9.
- FIRE HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF MERCER ISLAND SPECIFICATIONS SECTION 7-14 AND STANDARD DETAIL W-24. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THE REQUIRED HYDRANT BURIAL DEPTH TO INSTALL HYDRANTS WITHOUT USING VERTICAL BENDS. THIS POTHOLING SHALL BE DONE EARLY ENOUGH TO ALLOW PROPER DEPTH HYDRANTS TO BE ORDERED.
- A TEMPORARY HYDRANT METER AND BACKFLOW DEVICE ARE REQUIRED PER SPECIFICATION SECTION 7-00.1 WHEN USING CITY WATER FOR CONSTRUCTION, INCLUDING FLUSHING THE MAIN.
- WHEN FLUSHING THE MAIN, DISCHARGED WATER MUST BE DRAINED INTO THE SANITARY SEWER SYSTEM. THIS DISCHARGE MUST BE COORDINATED WITH THE CITY UTILITIES MANAGER.
- ANY REMOVED FIRE HYDRANTS, VALVES, SETTERS, AND OTHER METER HARDWARE SHALL BE RETURNED TO THE CITY STORAGE YARD AS SALVAGE. THE CITY WILL SUPPLY NEW METERS.
- ABANDON EXISTING WATER SERVICE IN PLACE WHERE NEW 1" THROUGH 2" SERVICE LINES ARE INSTALLED. TURN OFF CORP STOP TO ABANDON SERVICE AT METER. ROLL OVER ON SIDE AND BURY ABANDONED SERVICE.
- MAXIMUM PIPE DEFLECTION AT JOINTS SHALL BE HALF THE MANUFACTURER'S ALLOWABLE DEFLECTION UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ON SITE FOR CONSTRUCTION AROUND 4" DIAMETER AND LARGER AND/OR HIGH PRESSURE GAS MAIN. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
- CONTRACTOR SHALL POTHOLE AT ALL LOCATIONS WHERE PROPOSED WATER MAIN & FIRE HYDRANT LATERAL CROSS THE EXISTING WATER MAIN, STORM DRAIN OR SEWER MAIN & SERVICES TO VERIFY DEPTH OF EXISTING MAIN IN ACCORDANCE WITH SPECIFICATION SECTION 1-07.17(2). FIRE HYDRANT LATERALS SHALL BE INSTALLED ABOVE OR BELOW EXISTING MAIN, STORM DRAIN AND SEWER MAIN WITHOUT USING BENDS. CONTRACTOR IS REQUIRED TO DETERMINE IF NEW WATER MAIN NEEDS TO BE INSTALLED DEEPER TO ACCOMPLISH THIS.
- CONTRACTOR TO LOCATE AIR & VACUUM VALVE ASSEMBLY TEE AT HIGH POINT OF NEW MAIN. INSTALLATION OF AIR RELEASE ASSEMBLY MAY REQUIRE MORE THAN 3' OF COVER AT NEW MAIN. SEE CITY OF MERCER ISLAND STANDARD DETAIL W-25.
- ALL TEMPORARY BLOW-OFFS MUST BE LOCATED OUTSIDE OF THE ROADWAY. ALL PARTS USED IN SETTING THE TEMPORARY BLOW-OFF SHALL BE PER THE TEMPORARY BLOW-OFF DETAIL ON SHEET WD-01.
- ALL MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED BY A LICENSED SURVEYOR. CONTRACTOR SHALL NOTIFY SURVEYOR 1 WEEK IN ADVANCE OF DISTURBING MONUMENT SO SURVEY CAN BE IN THE MONUMENT AND FILE PAPERWORK WITH THE STATE PRIOR TO MONUMENT BEING DISTURBED.



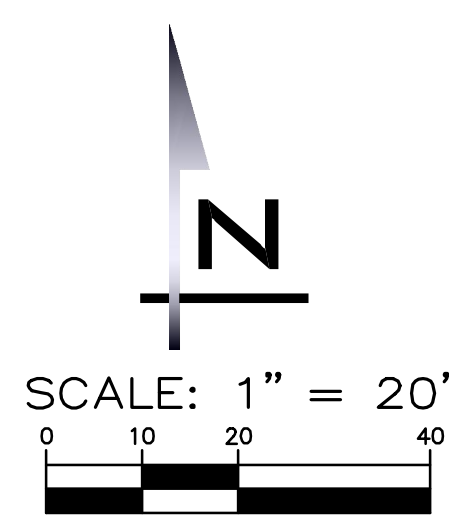
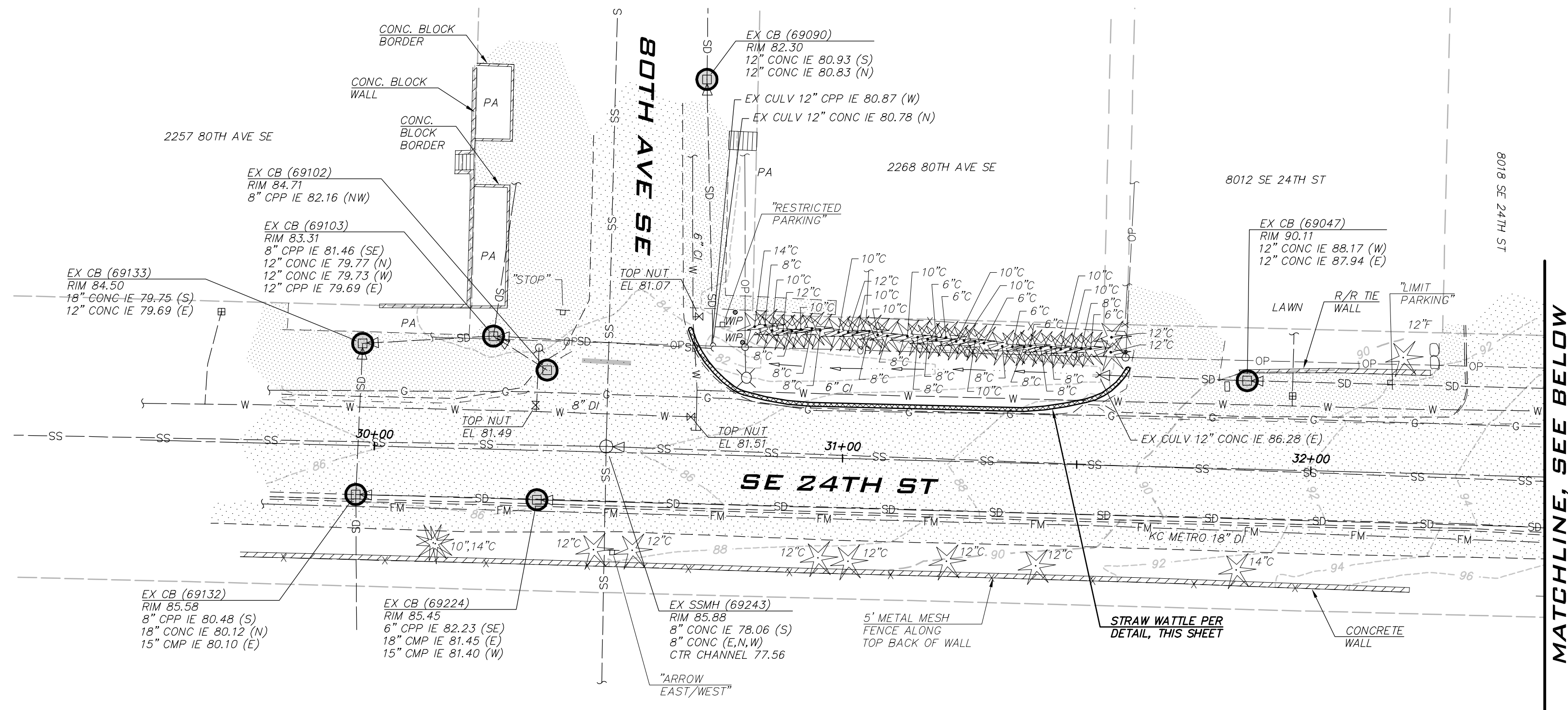
SCALE:
 AS NOTED
 PROJECT MANAGER:
 DEANNA L. MARTIN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, ET
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 2/23/2021

NO	DATE	BY	REVISIONS

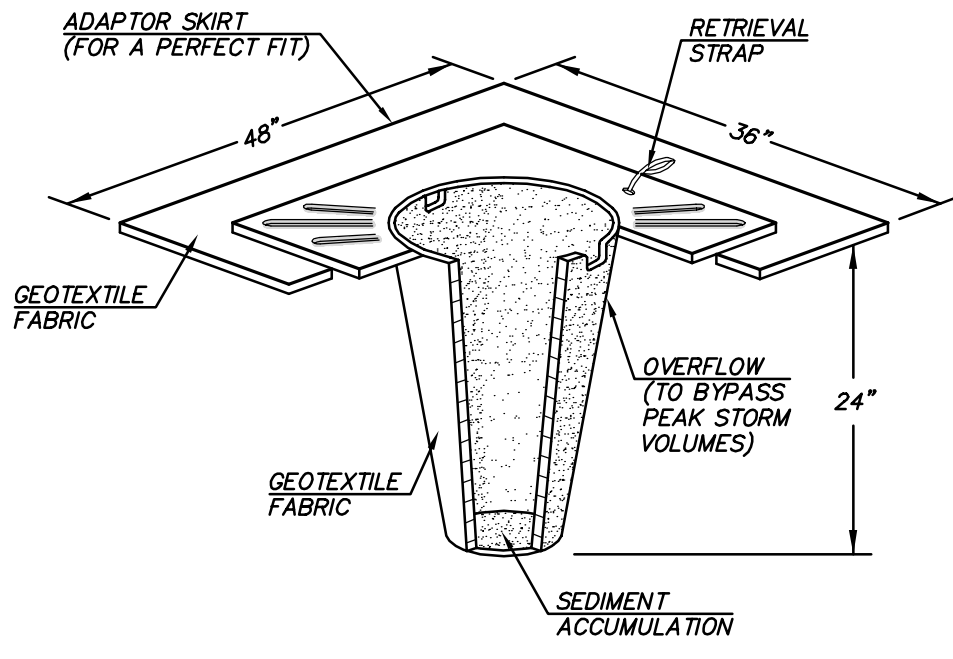
GENERAL NOTES & LEGEND
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



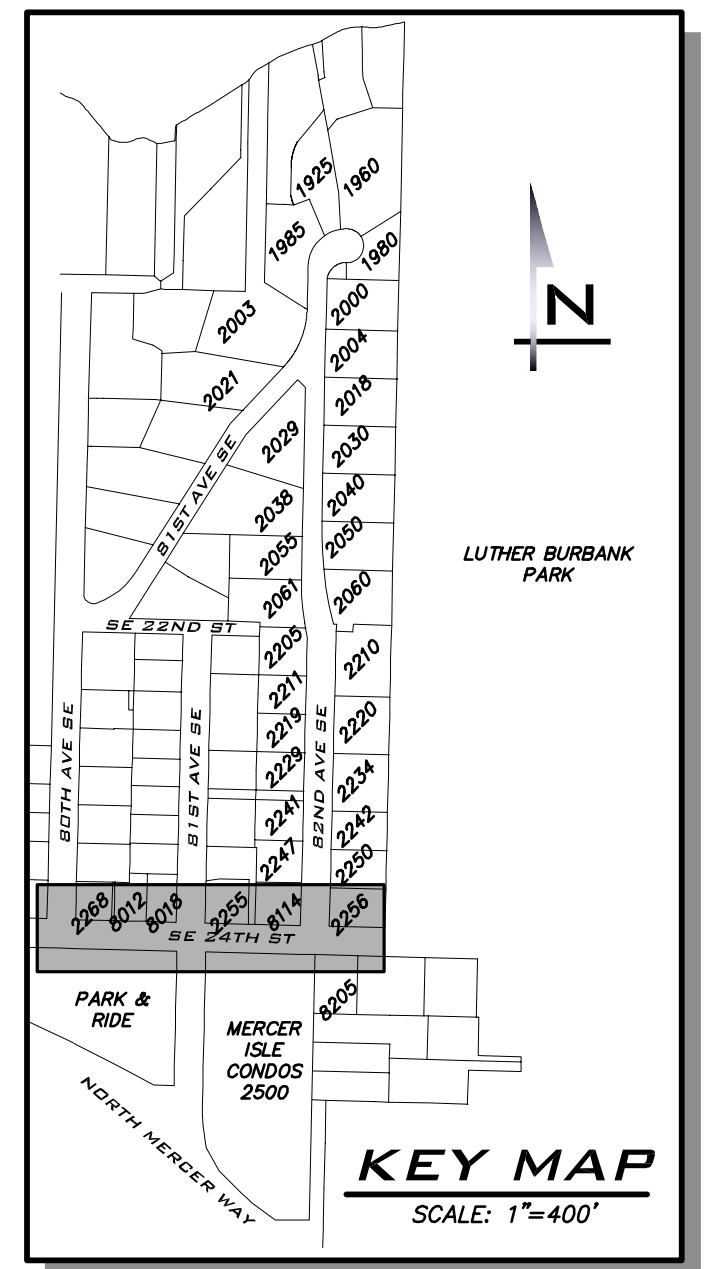
2/23/21
 JOB NUMBER:
 20-286
 SHEET NAME:
 GN-02
 SHT 3 OF 26



MATCHLINE, SEE BELOW

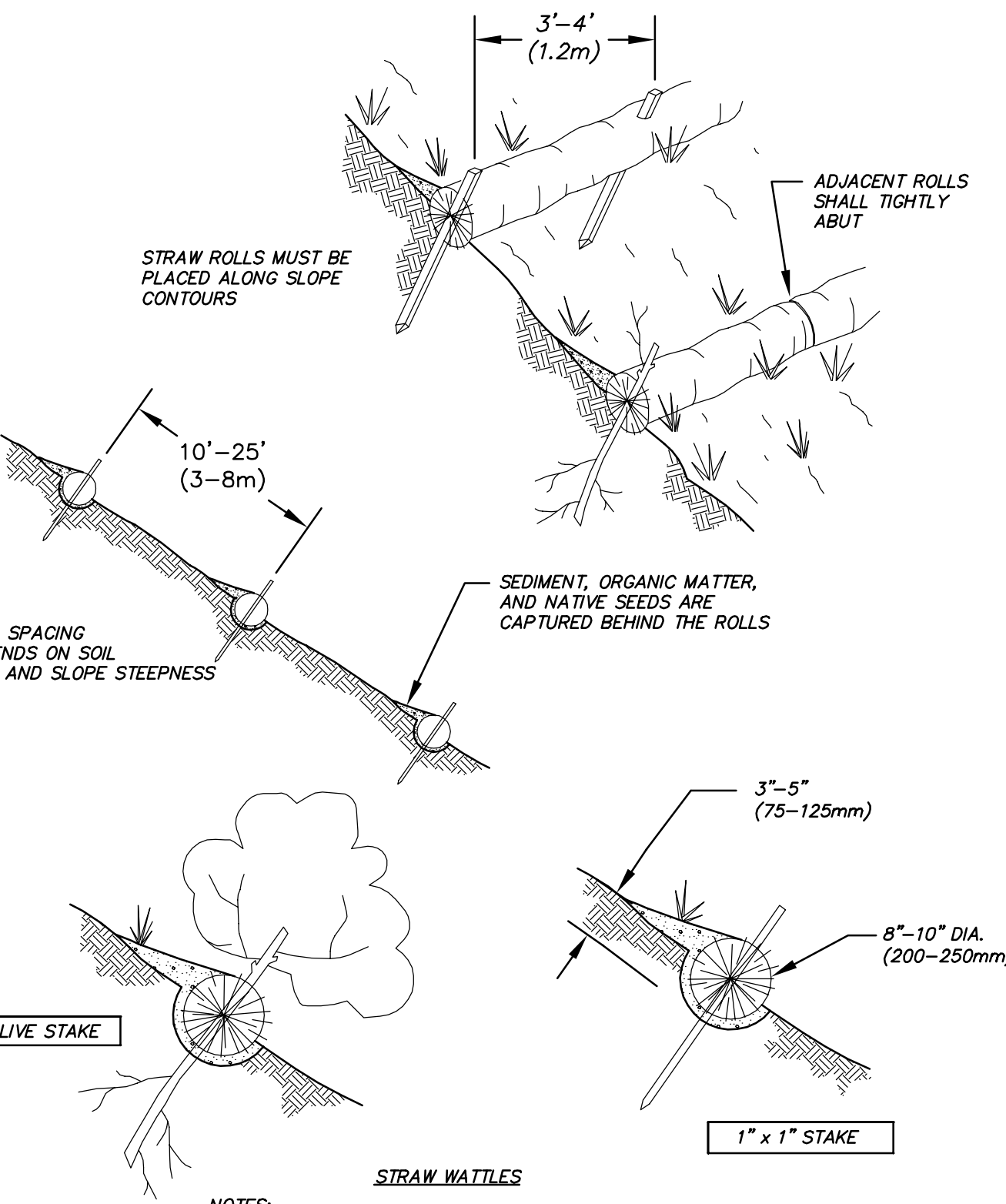
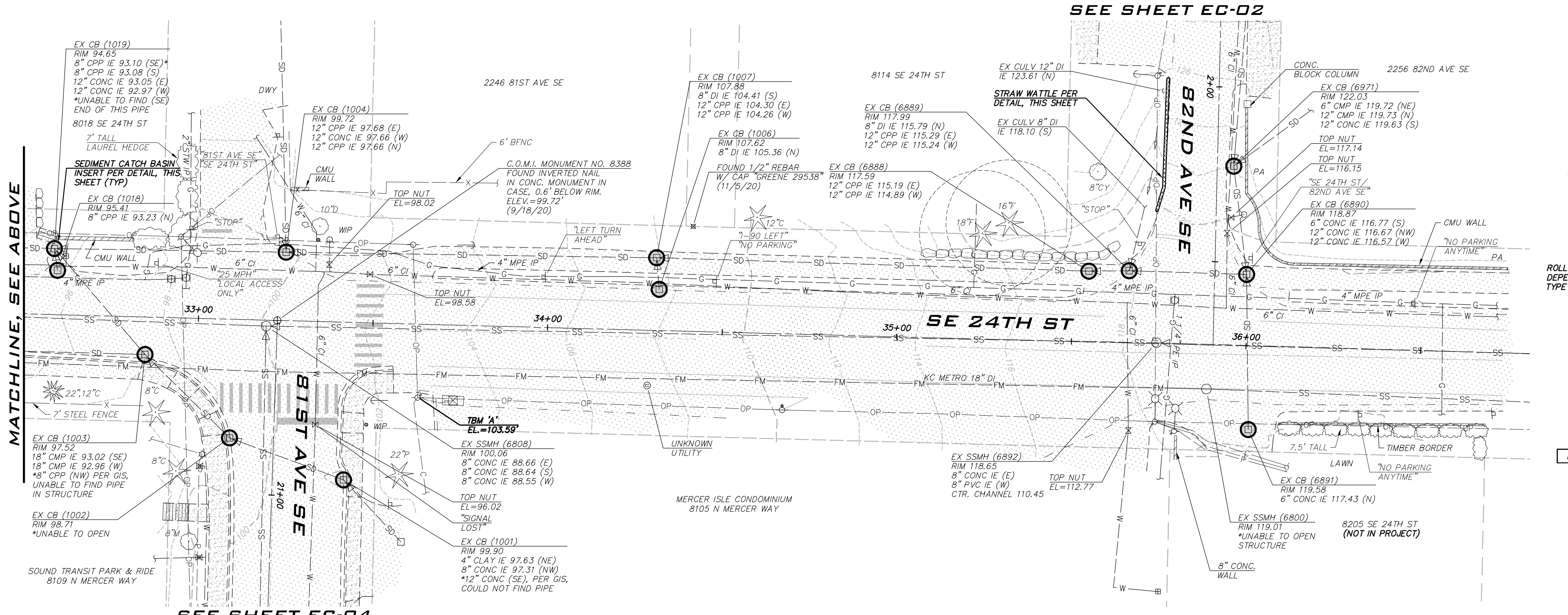


SEDIMENT CATCH BASIN INSERT NOT TO SCALE



SCALE: AS NOTED PROJECT MANAGER: DEANNA L. MARTIN, PE PROJECT ENGINEER: GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT ISSUE DATE: 2/23/2021

Table with columns: NO, DATE, BY, REVISIONS

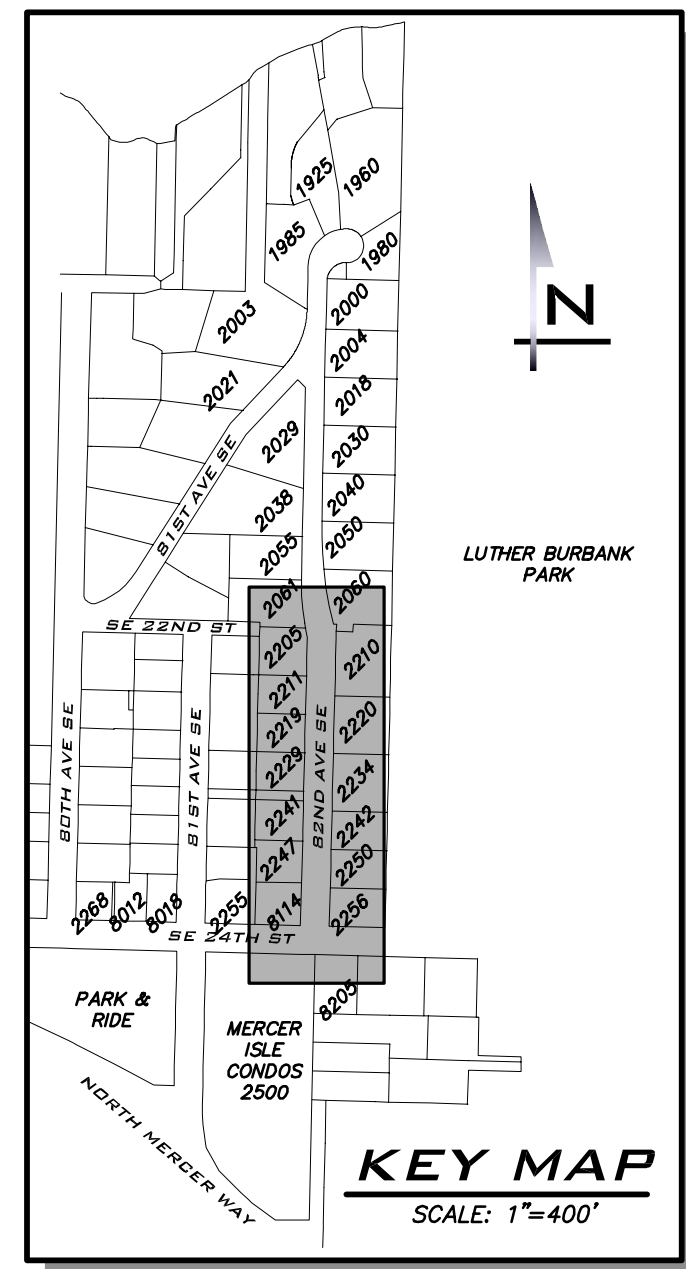
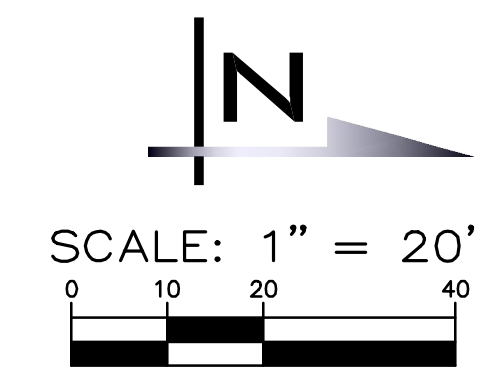


STRAW WATTLE NOT TO SCALE

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...

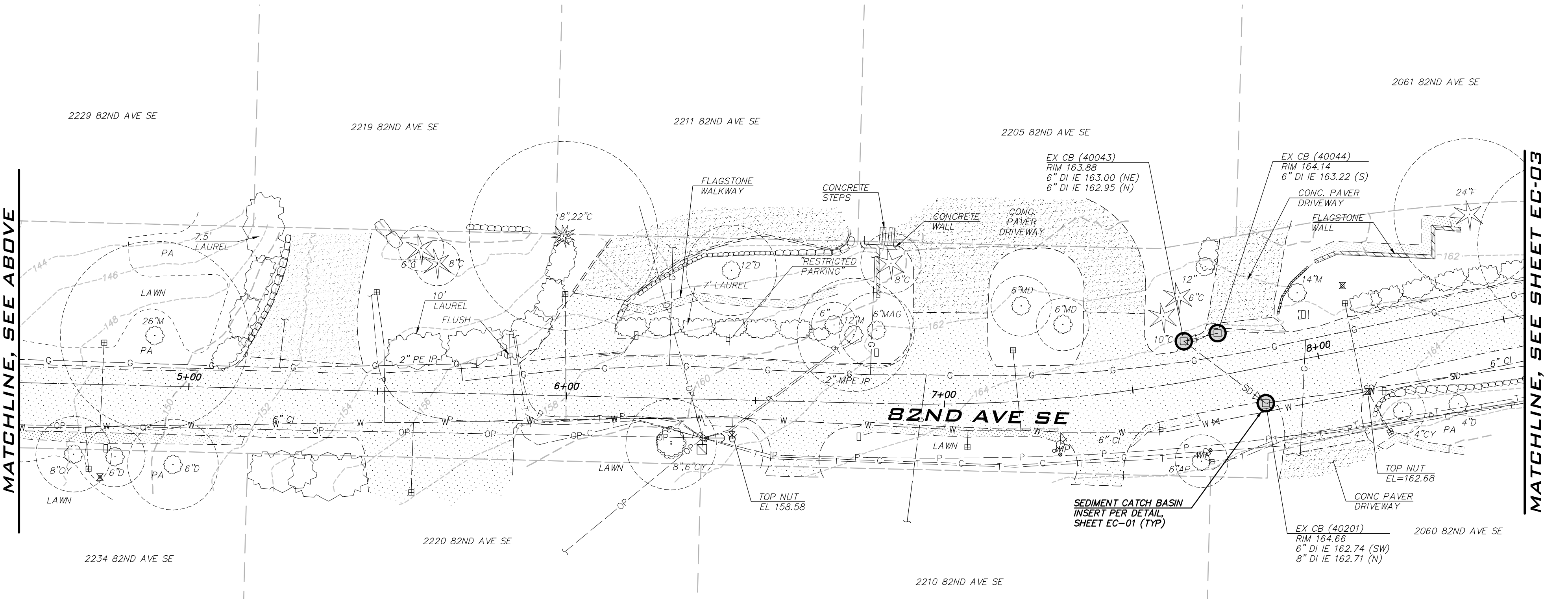
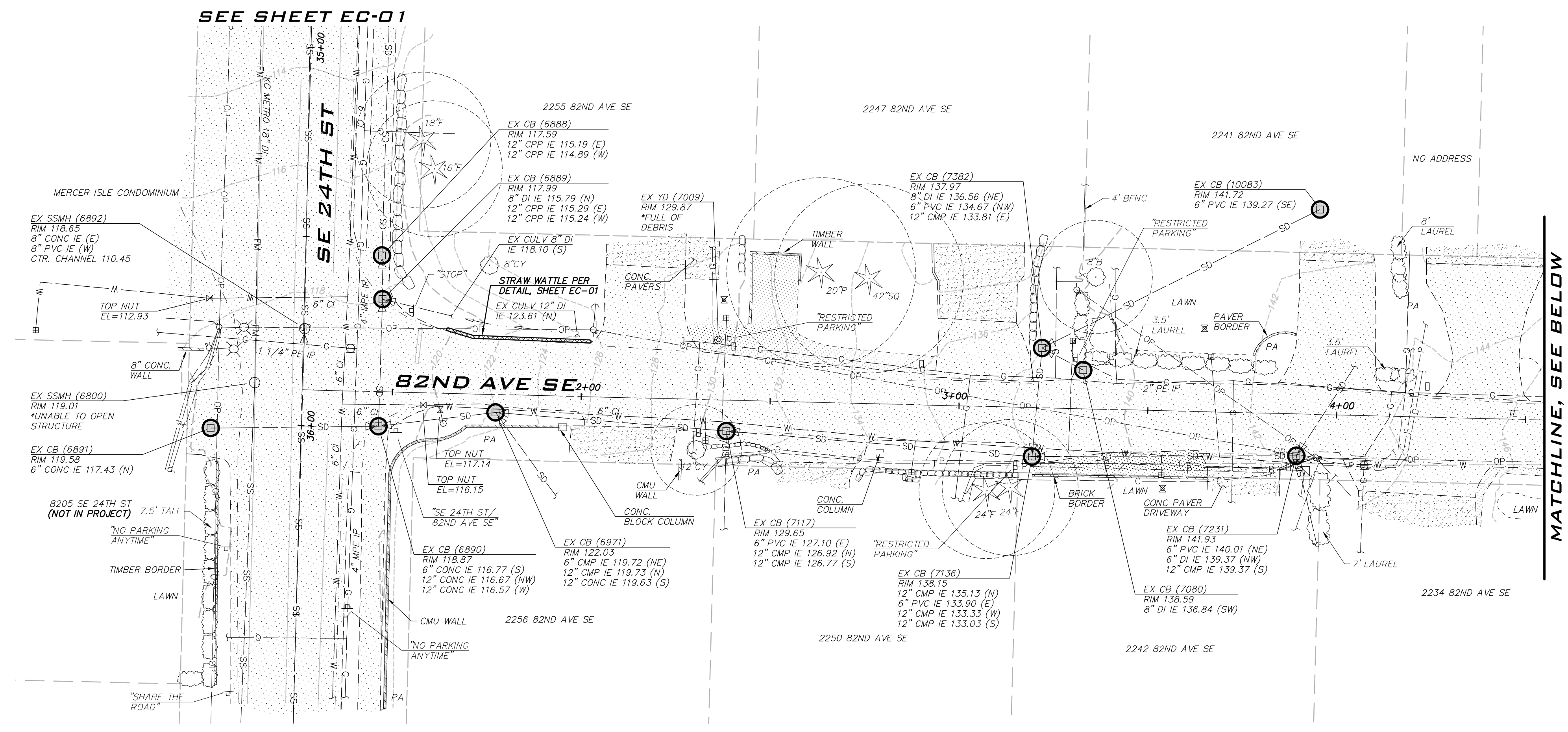
EXISTING CONDITIONS & TESC PLAN - SE 24TH ST 2021 WATER SYSTEM IMPROVEMENTS PROJECT CITY OF MERCER ISLAND WASHINGTON

Professional engineer seal for Deanna L. Martin, State of Washington, License No. 12124. Includes job number 20-286 and sheet name EC-01.



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE:
 AS NOTED
 PROJECT MANAGER:
 DEANNA L. MARTIN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 2/23/2021



2/23/21
 Feb 23, 2021 4:50pm User: cadoggett
 E:\Projects\2020\202010\Wm\82nd\82ndEC02-03.dwg

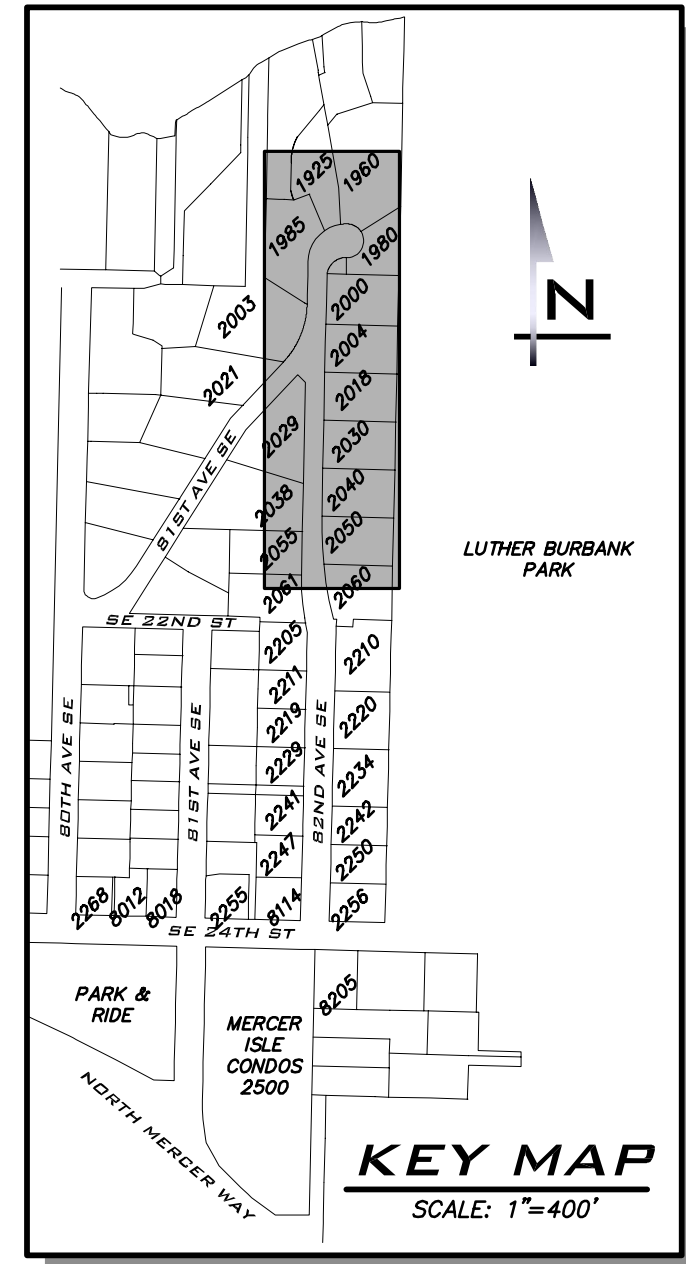
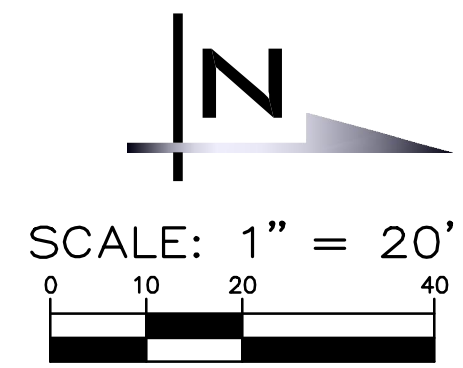
EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO 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.

NO	DATE	BY	REVISIONS

EXISTING CONDITIONS & TESC
 PLAN - 82ND AVE SE
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



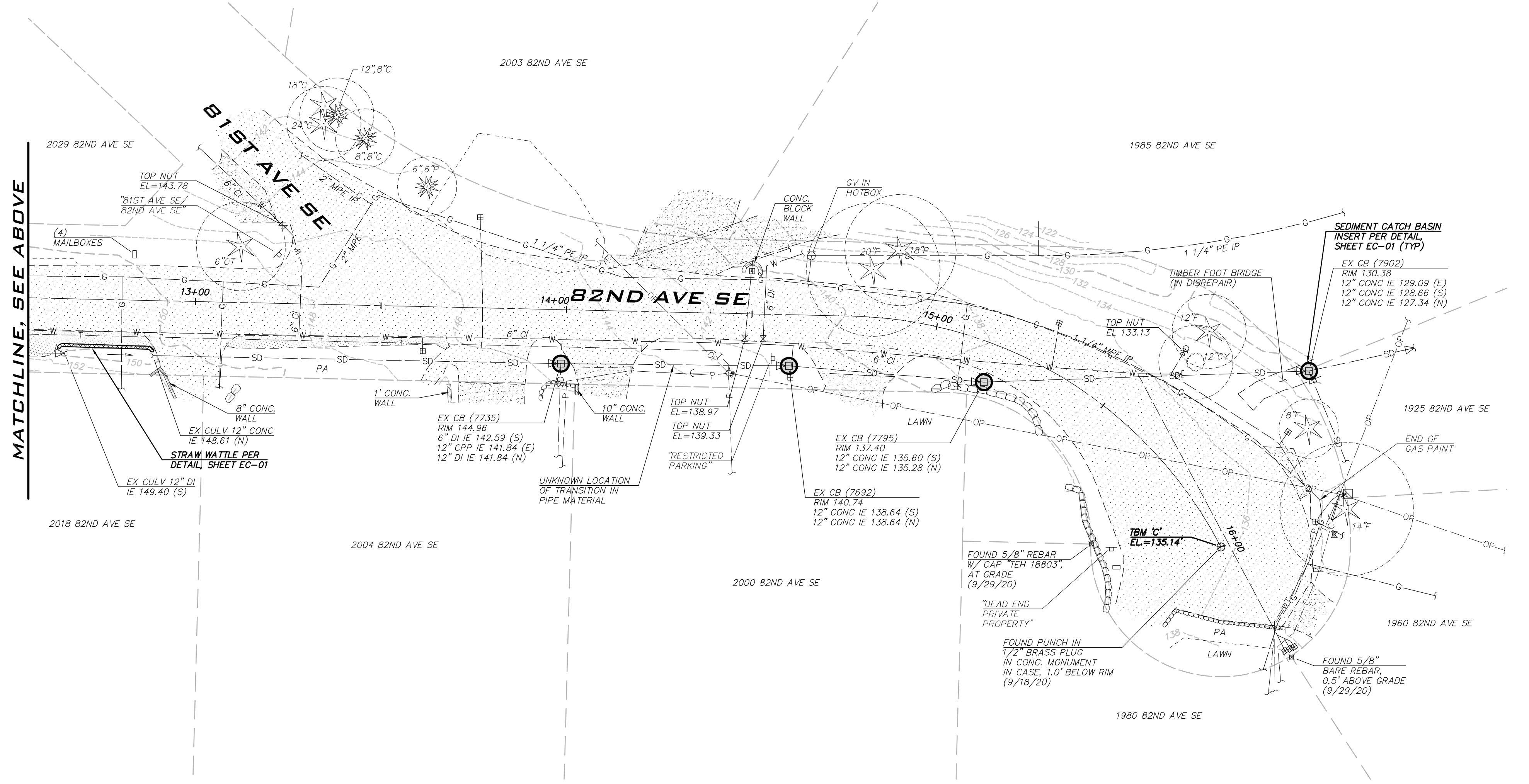
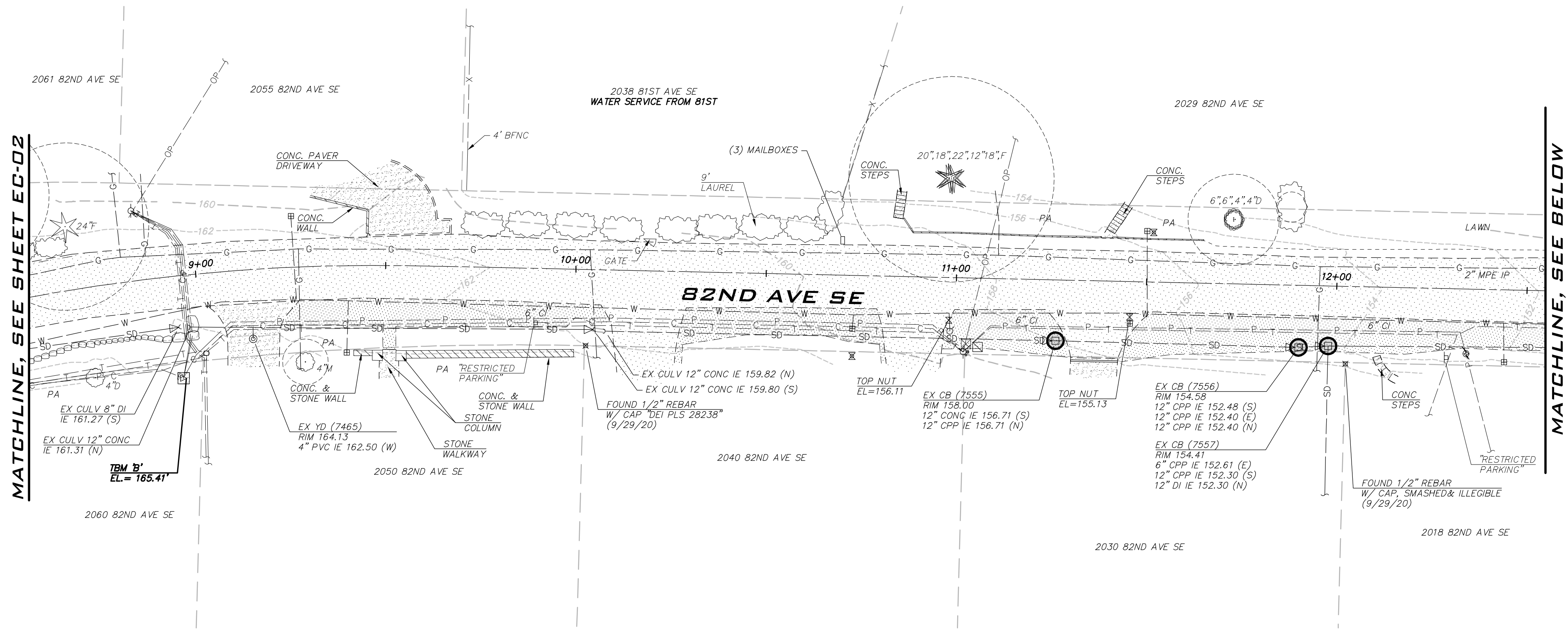
2/23/21
 JOB NUMBER:
20-286
 SHEET NAME:
EC-02
 SHT **6** OF **26**



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE:
 AS NOTED
 PROJECT MANAGER:
 DEANNA L. MARTIN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 2/23/2021

NO	DATE	BY	REVISIONS

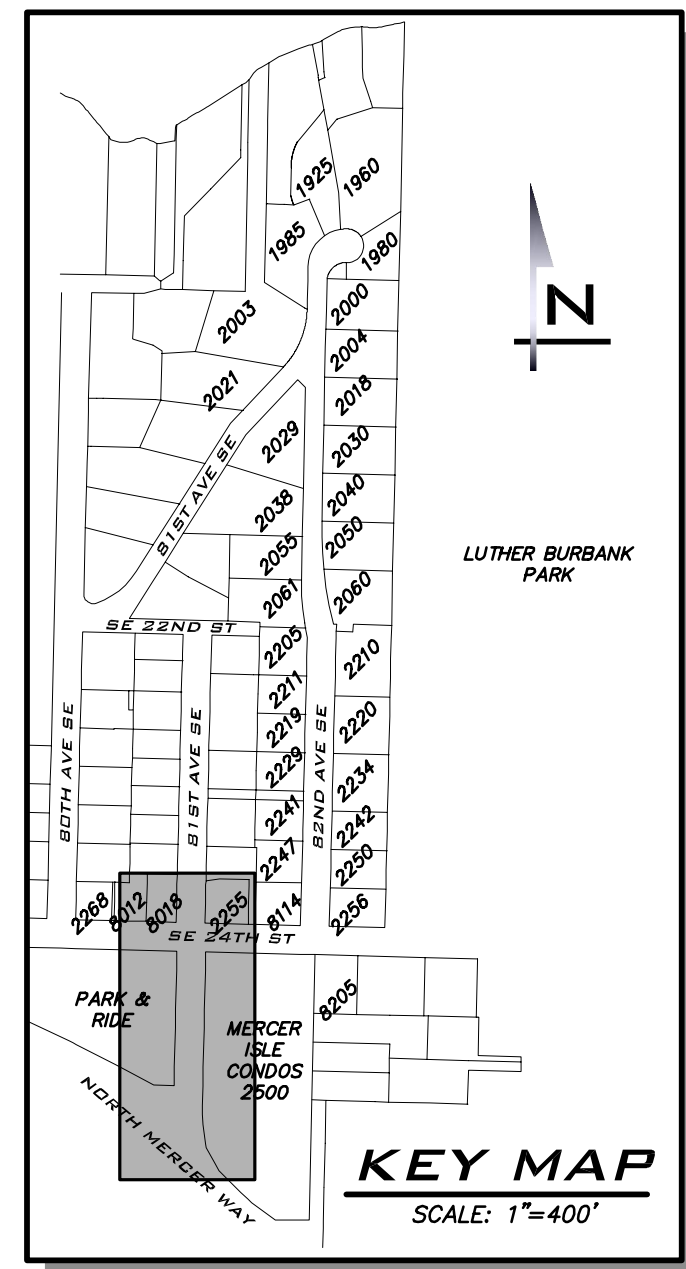
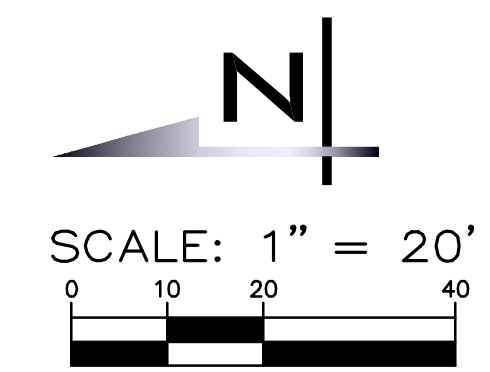


EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO 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.

EXISTING CONDITIONS & TESC
 PLAN - 82ND AVE SE
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



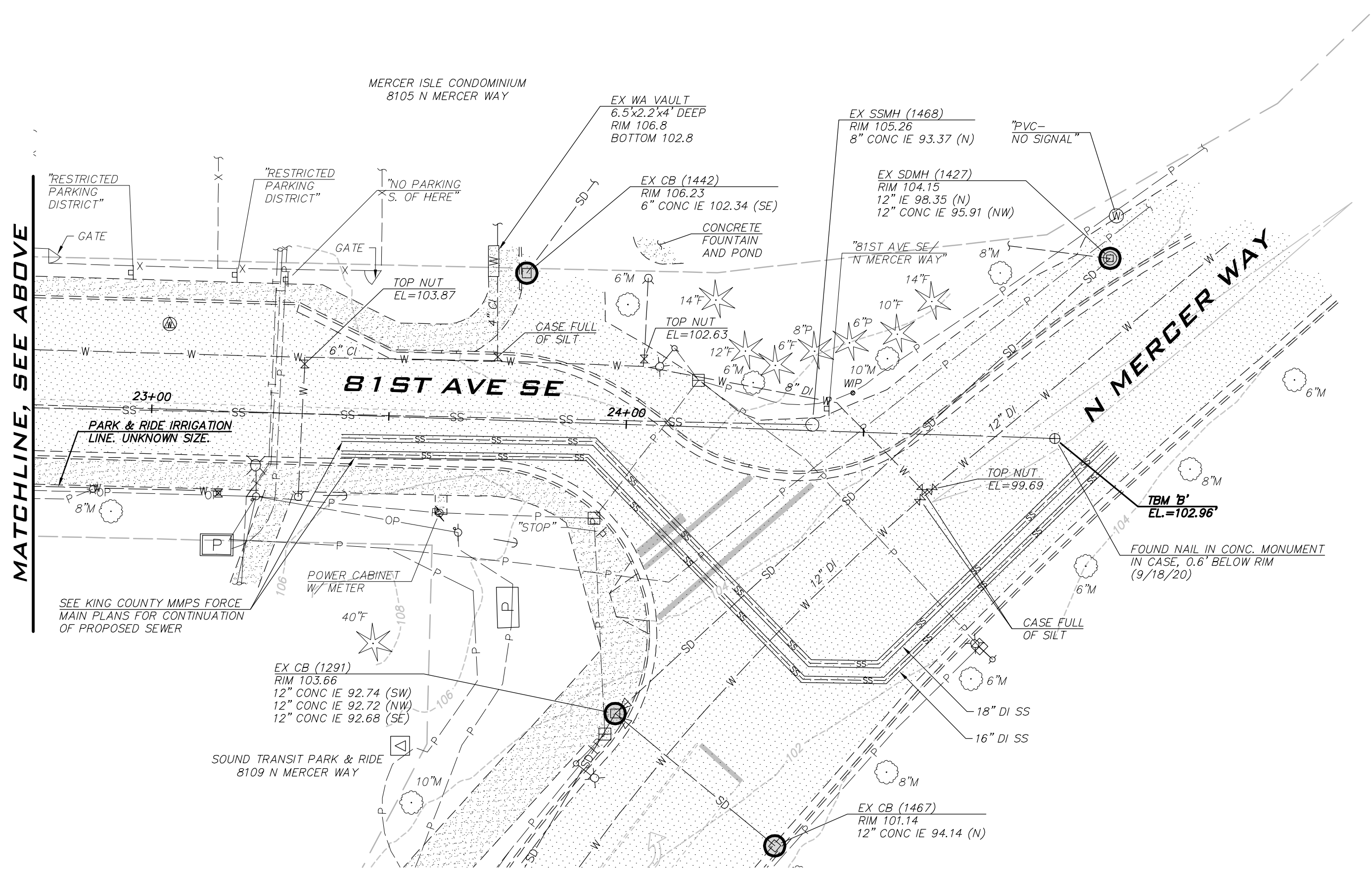
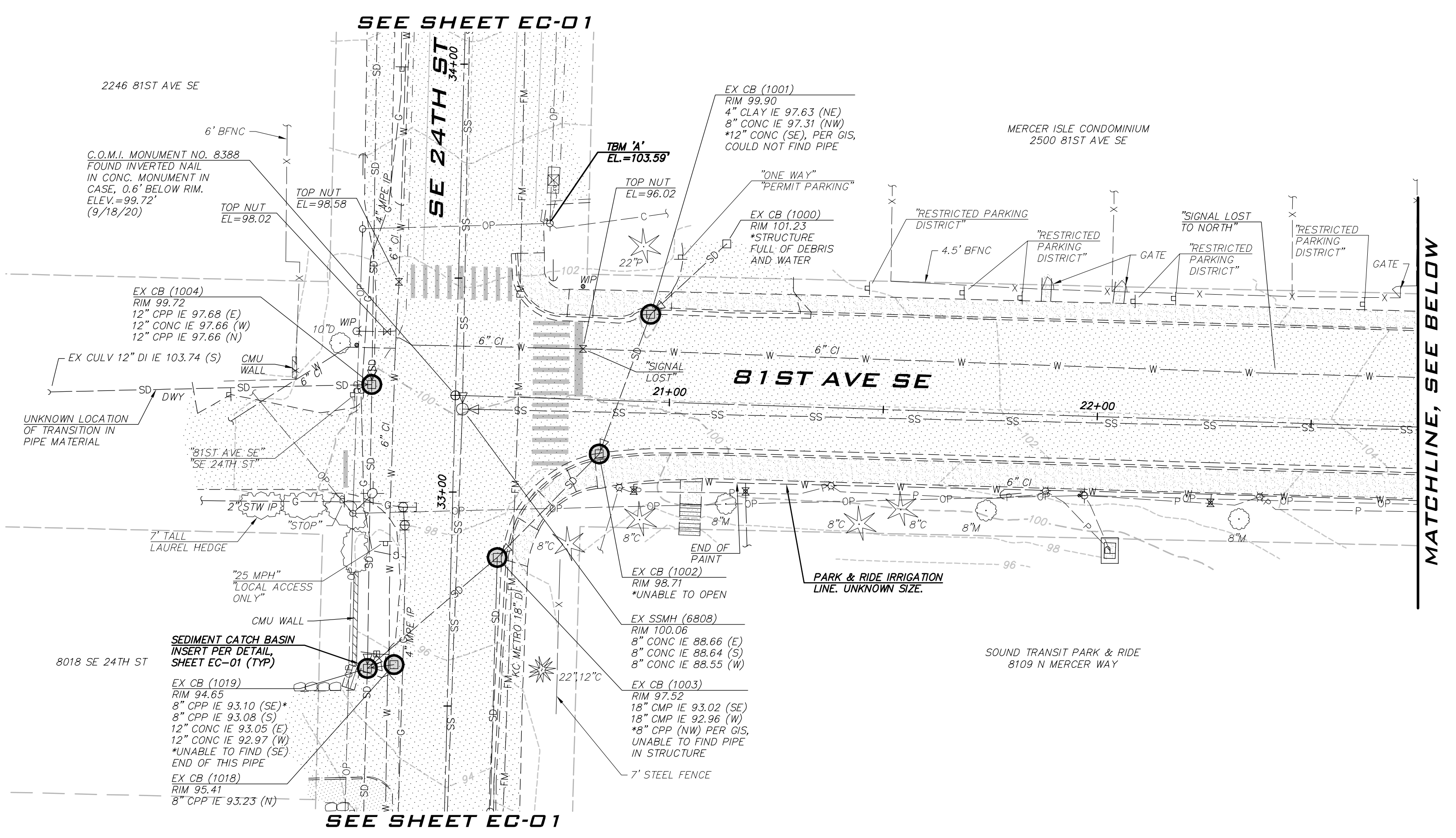
2/23/21
 JOB NUMBER:
20-286
 SHEET NAME:
EC-03
 SHT 7 OF 26



BLUELINE
25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

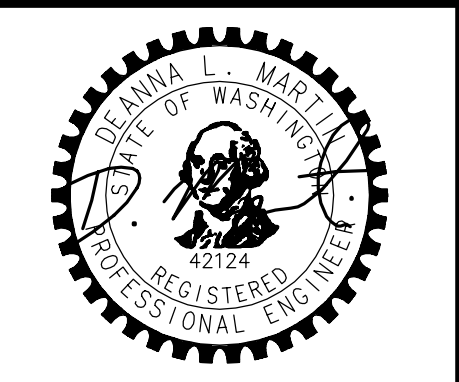
SCALE:
AS NOTED
PROJECT MANAGER:
DEANNA L. MARTIN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
2/23/2021

NO	DATE	BY	REVISIONS

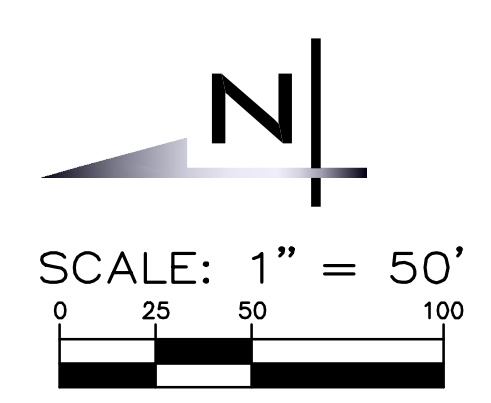
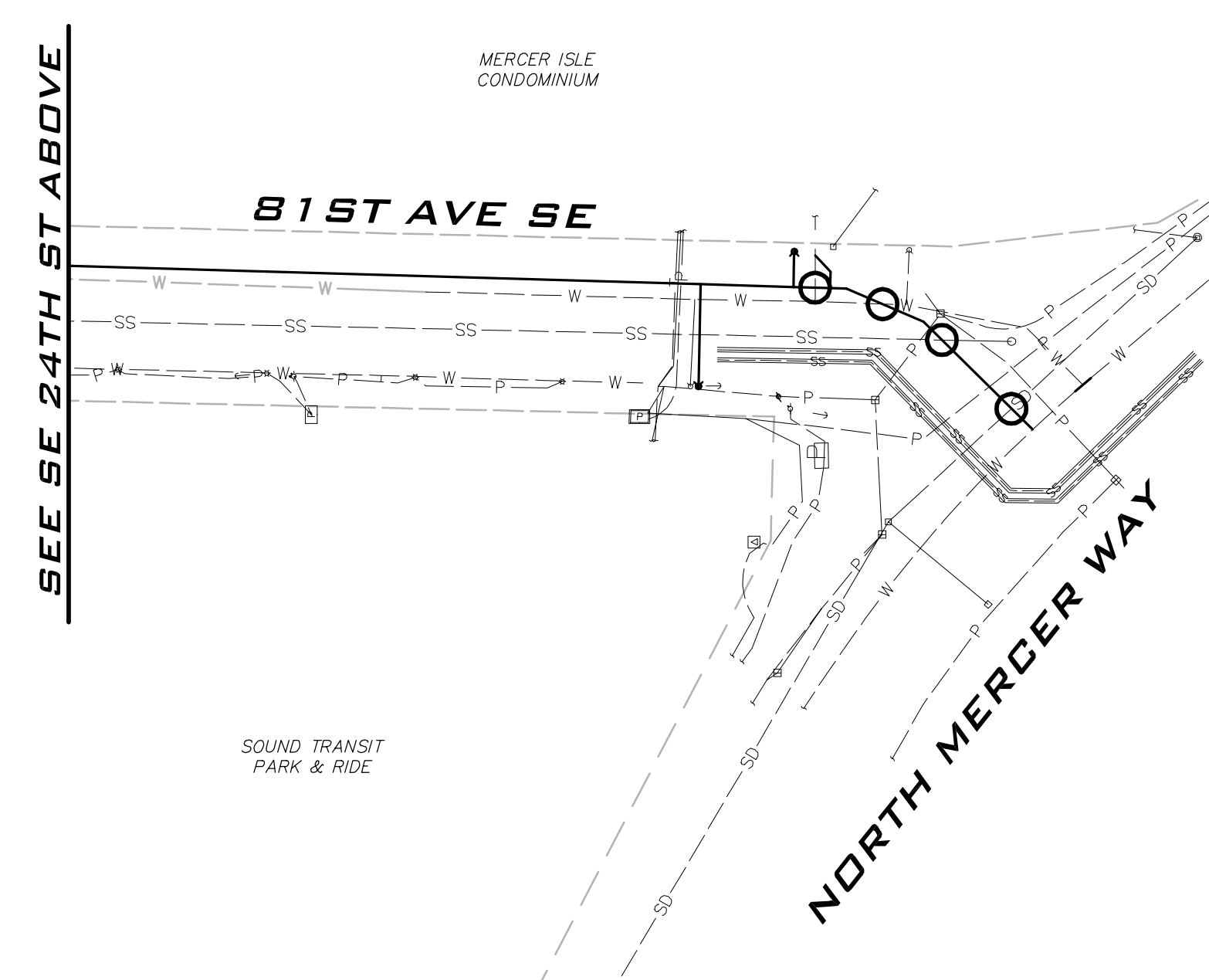
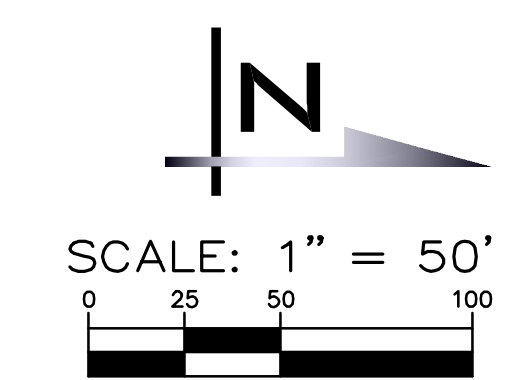
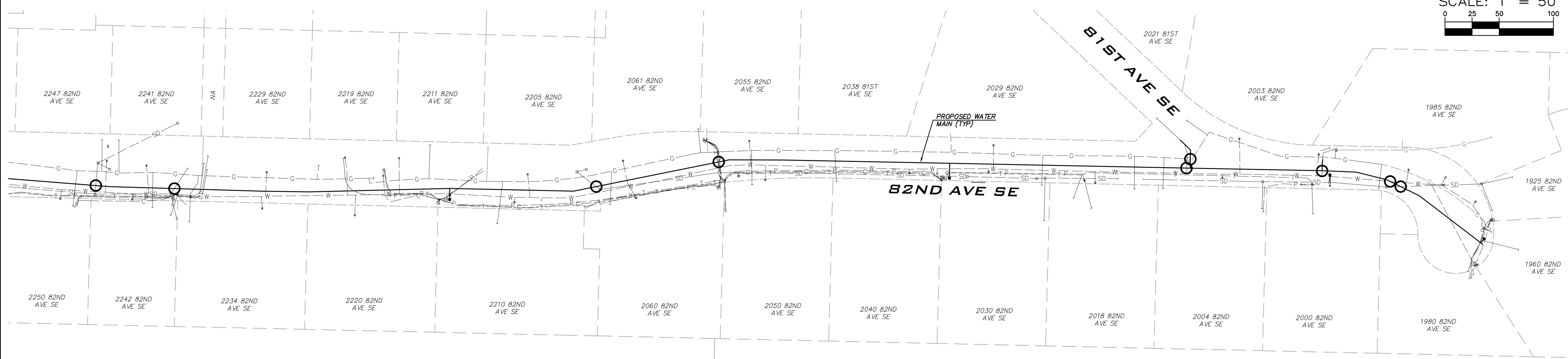
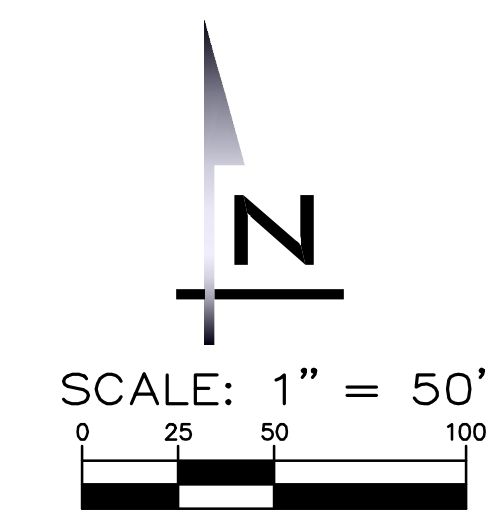
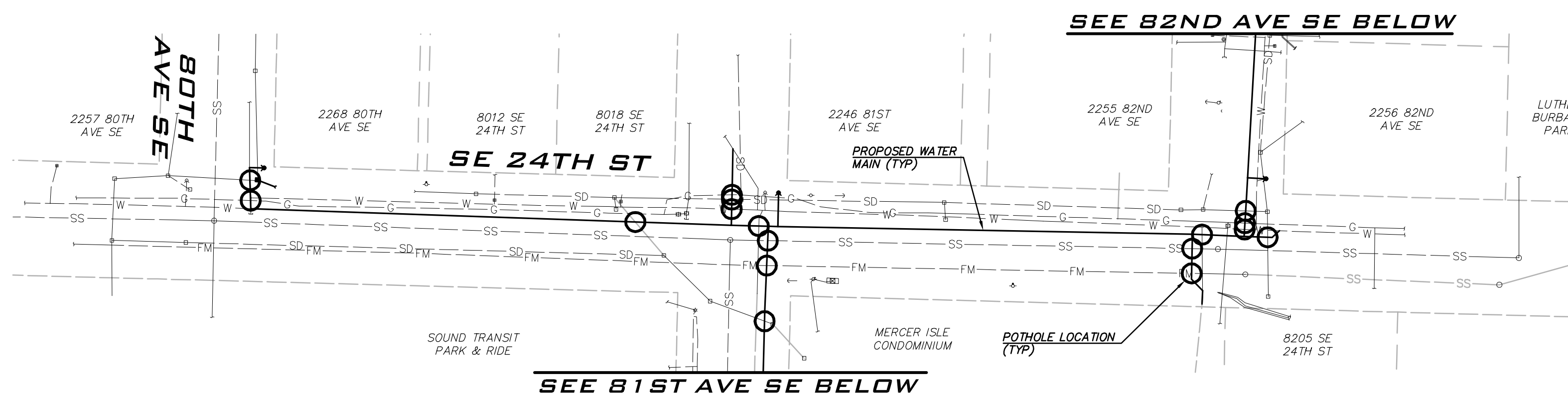


EXISTING UTILITY NOTE
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING 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.

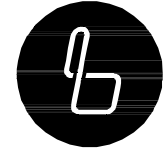
EXISTING CONDITIONS & TESC
PLAN - 81ST AVE SE
2021 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



2/23/21
JOB NUMBER:
20-286
SHEET NAME:
EC-04
SHT **8** OF **26**



POTHOLE NOTE
 CONTRACTOR TO POTHOLE LOCATIONS SHOWN. POTHOLING OF ALL SERVICES SHALL BE INCIDENTAL TO OTHER ITEMS. POTHOLING FOR PROPOSED FIRE HYDRANT LEAD UTILITY CROSSINGS, AIR/VAC AND BLOWOFFS (MANS OR SERVICES) SHALL BE INCIDENTAL TO INSTALLATION.


BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

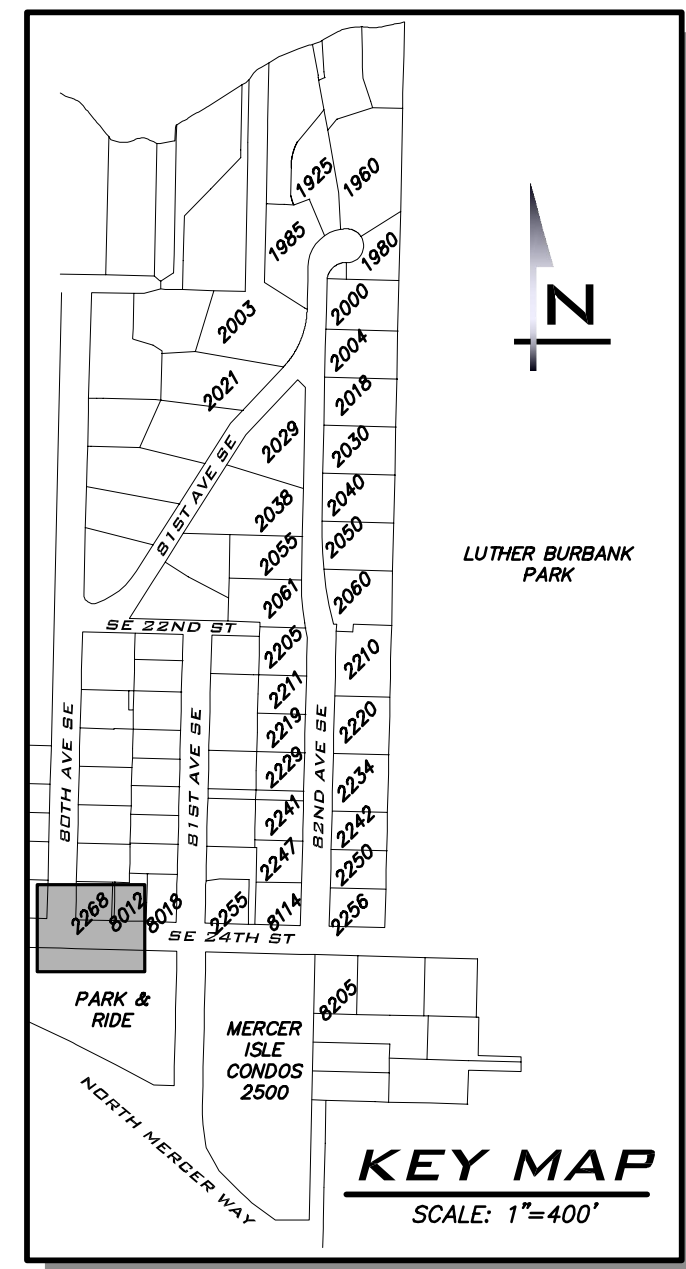
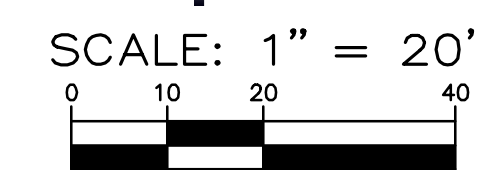
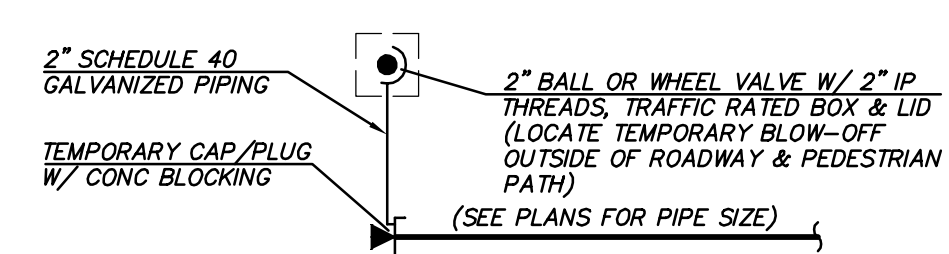
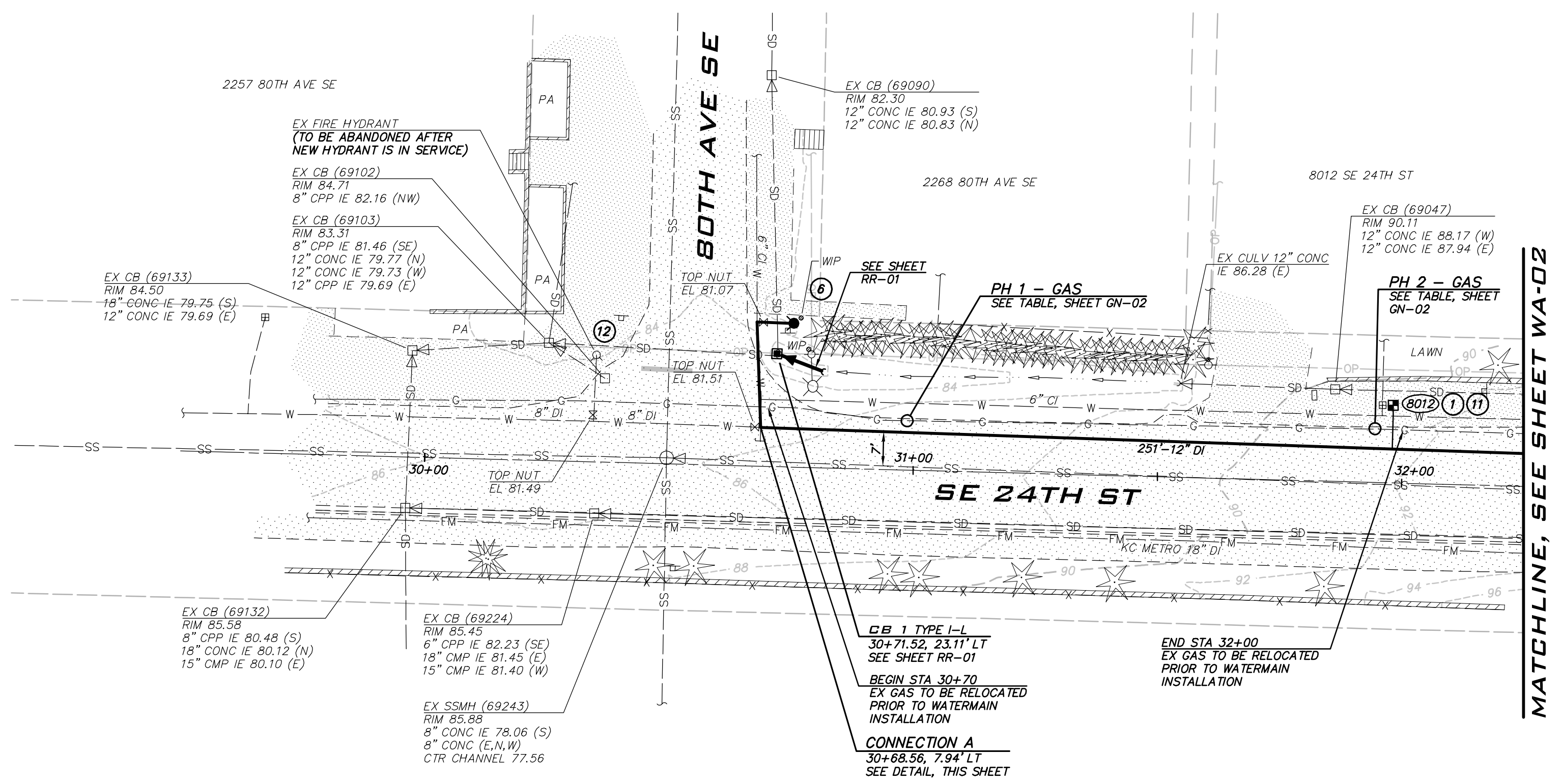
SCALE:
 AS NOTED
 PROJECT MANAGER:
 DEANNA L. MARTIN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 2/23/2021

NO	DATE	BY	REVISIONS

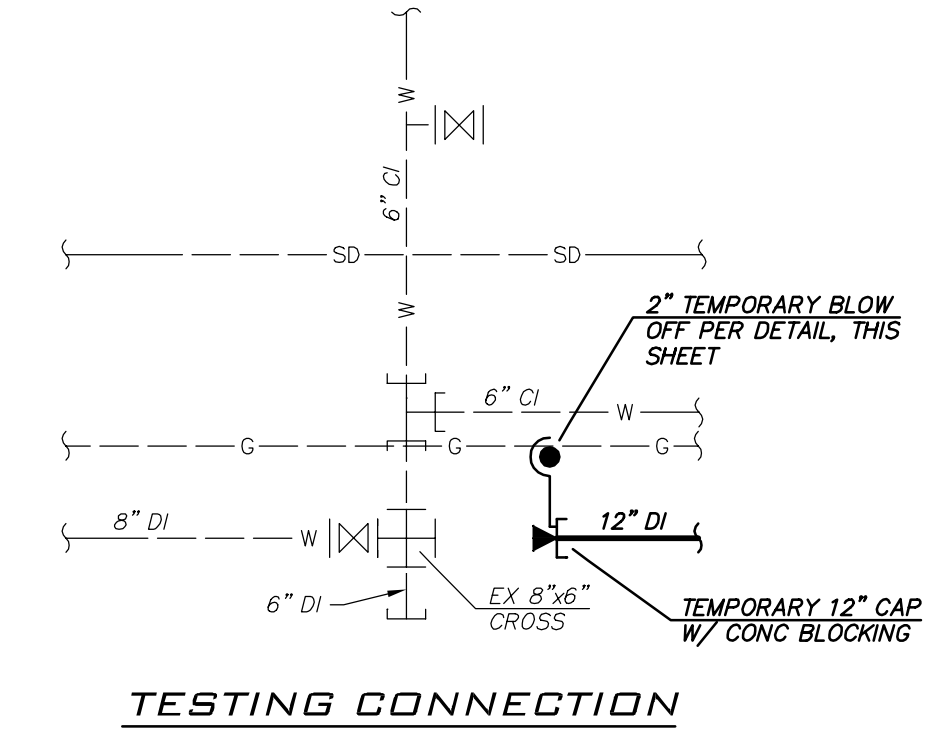
CONTRACTOR PAID
 POTHOLING PLAN
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



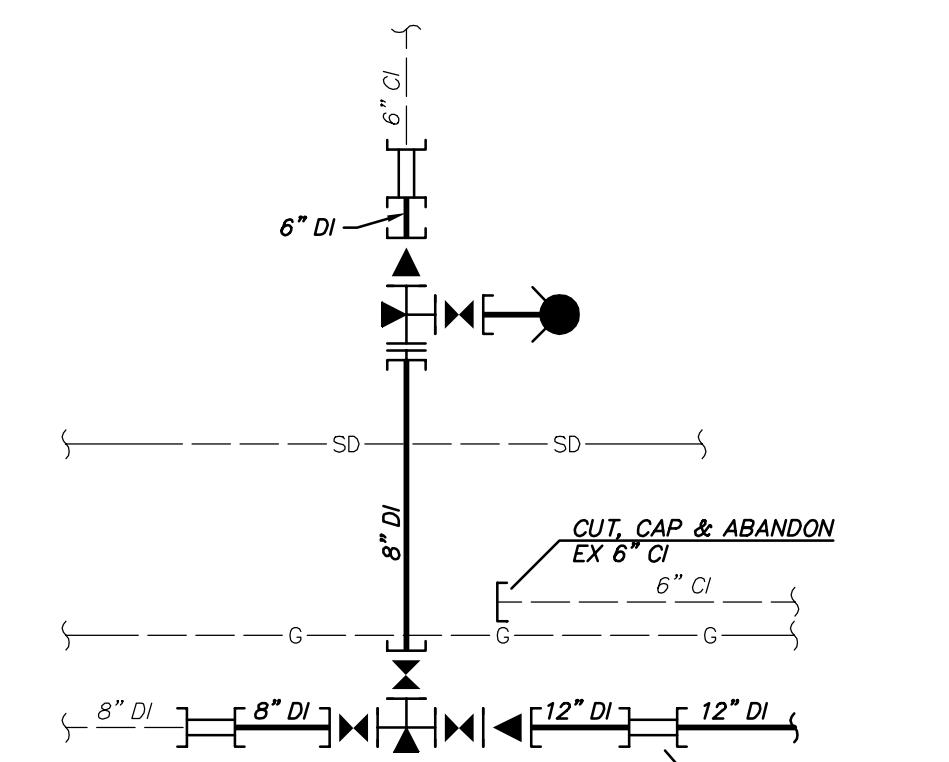
2/23/21
 JOB NUMBER:
 20-286
 SHEET NAME:
 PH-01



2" TEMPORARY BLOW-OFF
NOT TO SCALE



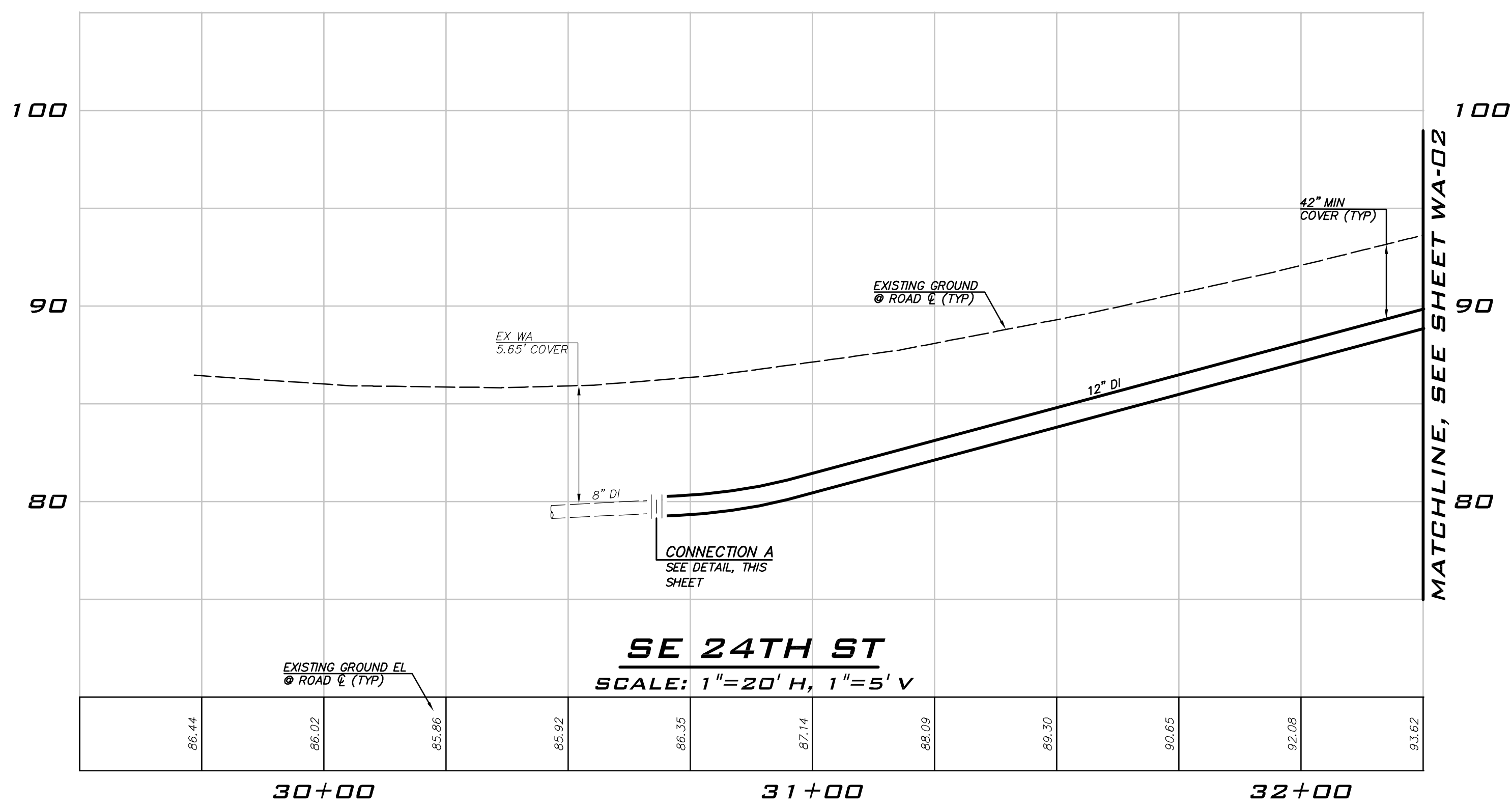
TESTING CONNECTION



FINAL CONNECTION CONNECTION A
NOT TO SCALE

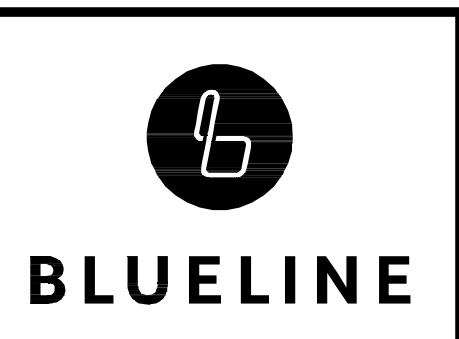
- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.



MATCHLINE, SEE SHEET WA-02

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.



25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
DEANNA L. MARTIN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

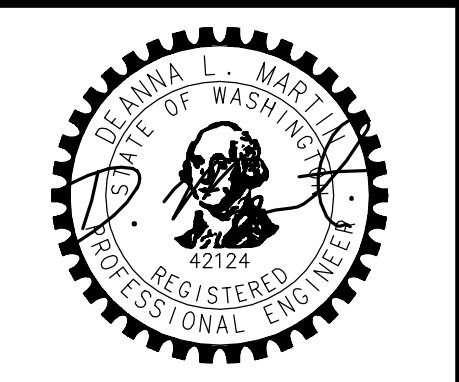
ISSUE DATE:
2/23/2021

NO	DATE	BY	REVISIONS

WATER PLAN - SE 24TH ST

2021 WATER SYSTEM IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON

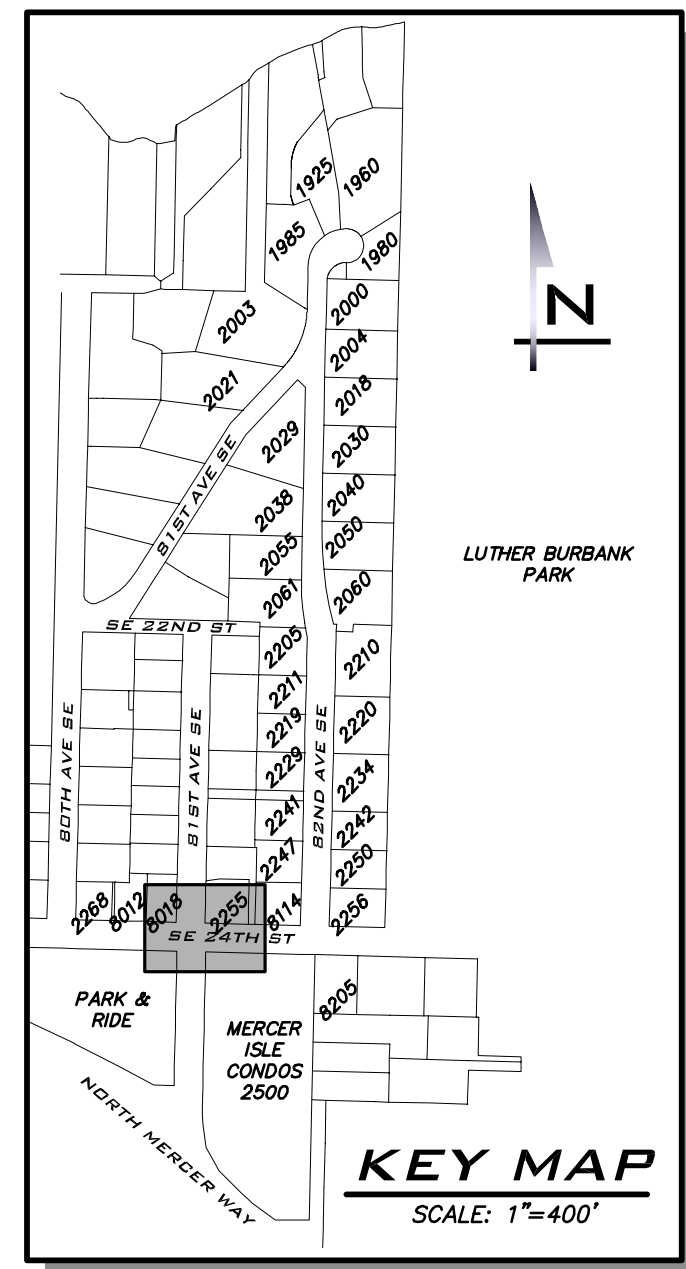
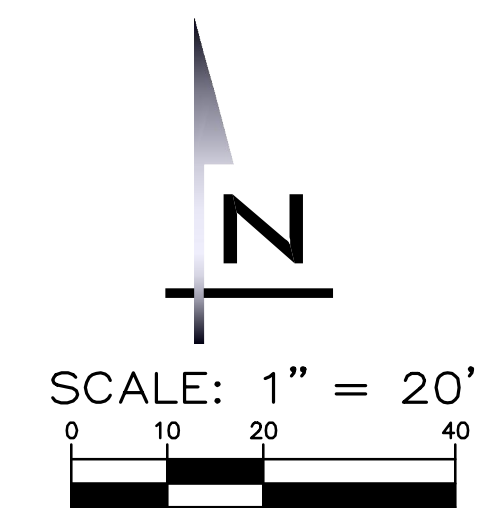


2/23/21

JOB NUMBER:
20-286

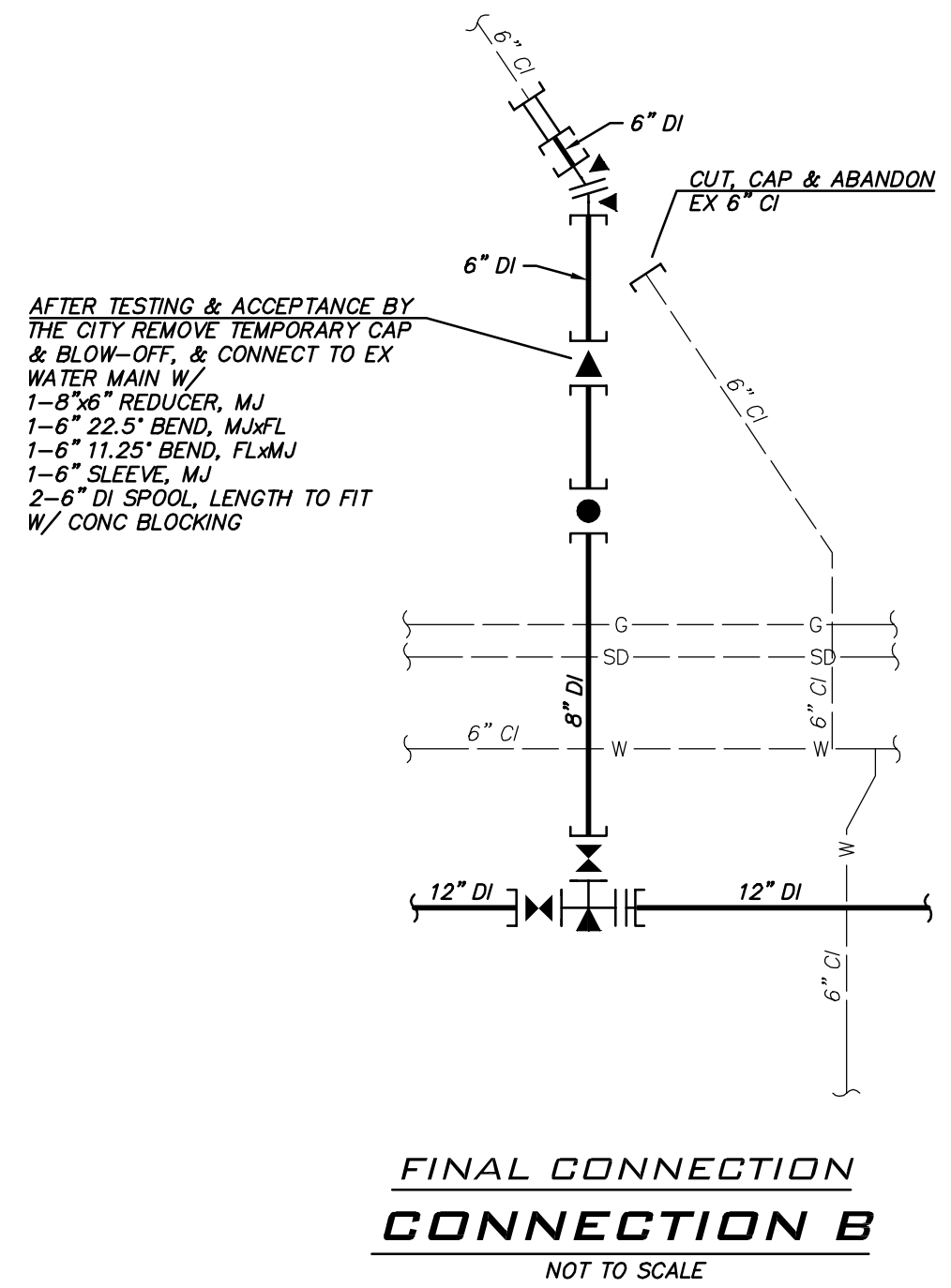
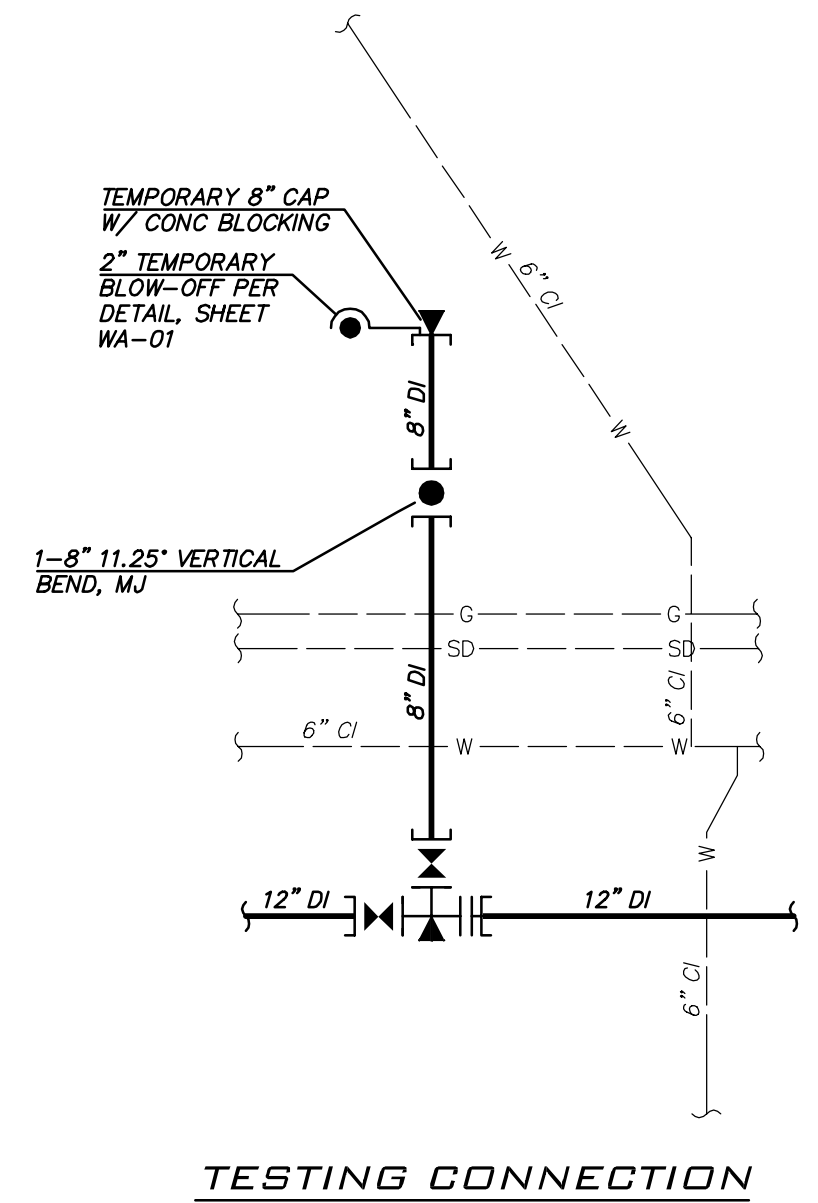
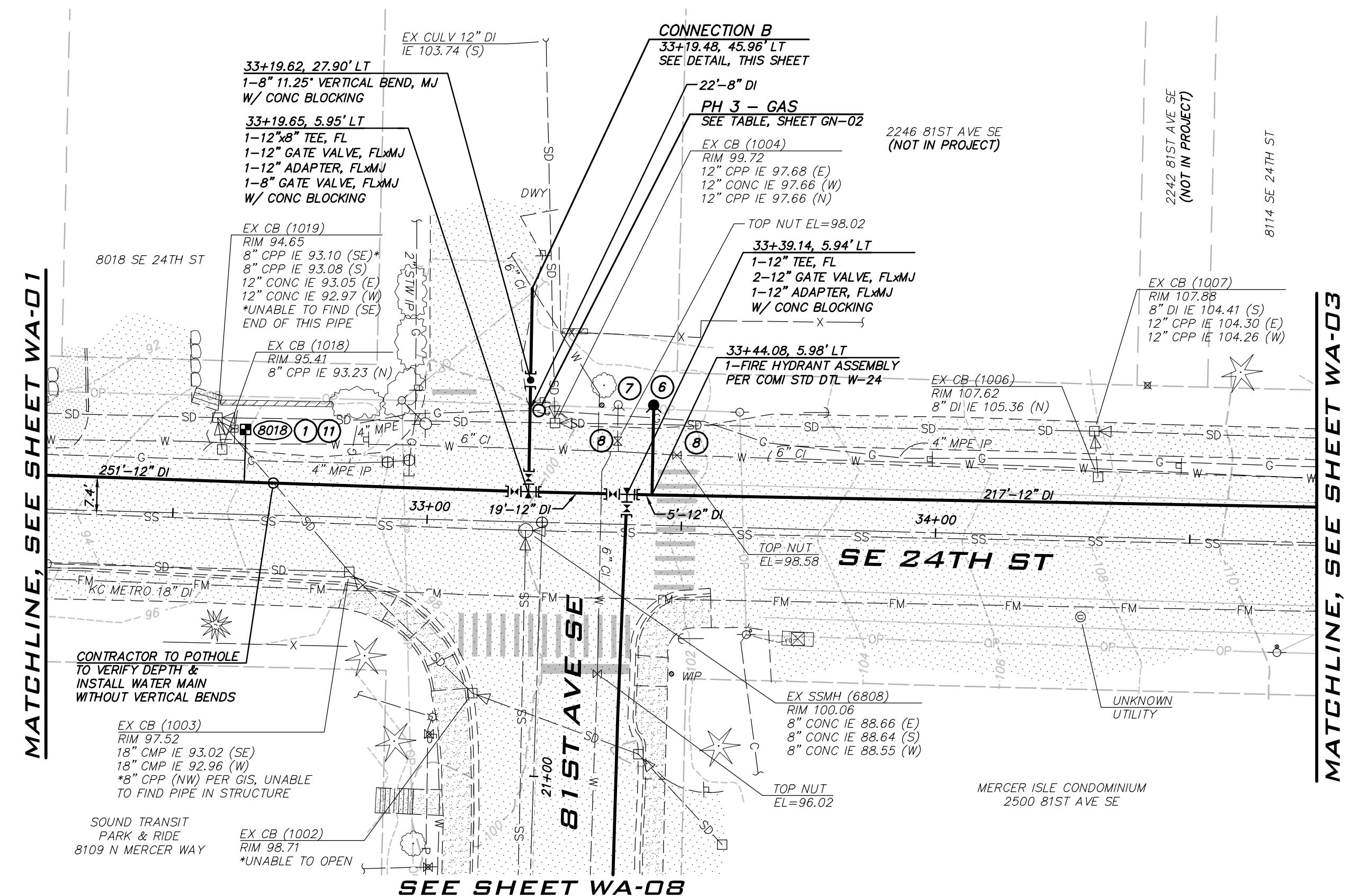
SHEET NAME:
WA-01

SHT **10** OF **26**



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P. 425.216.4051 F. 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED
 PROJECT MANAGER:
 DEANNA L. MARTIN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 2/23/2021

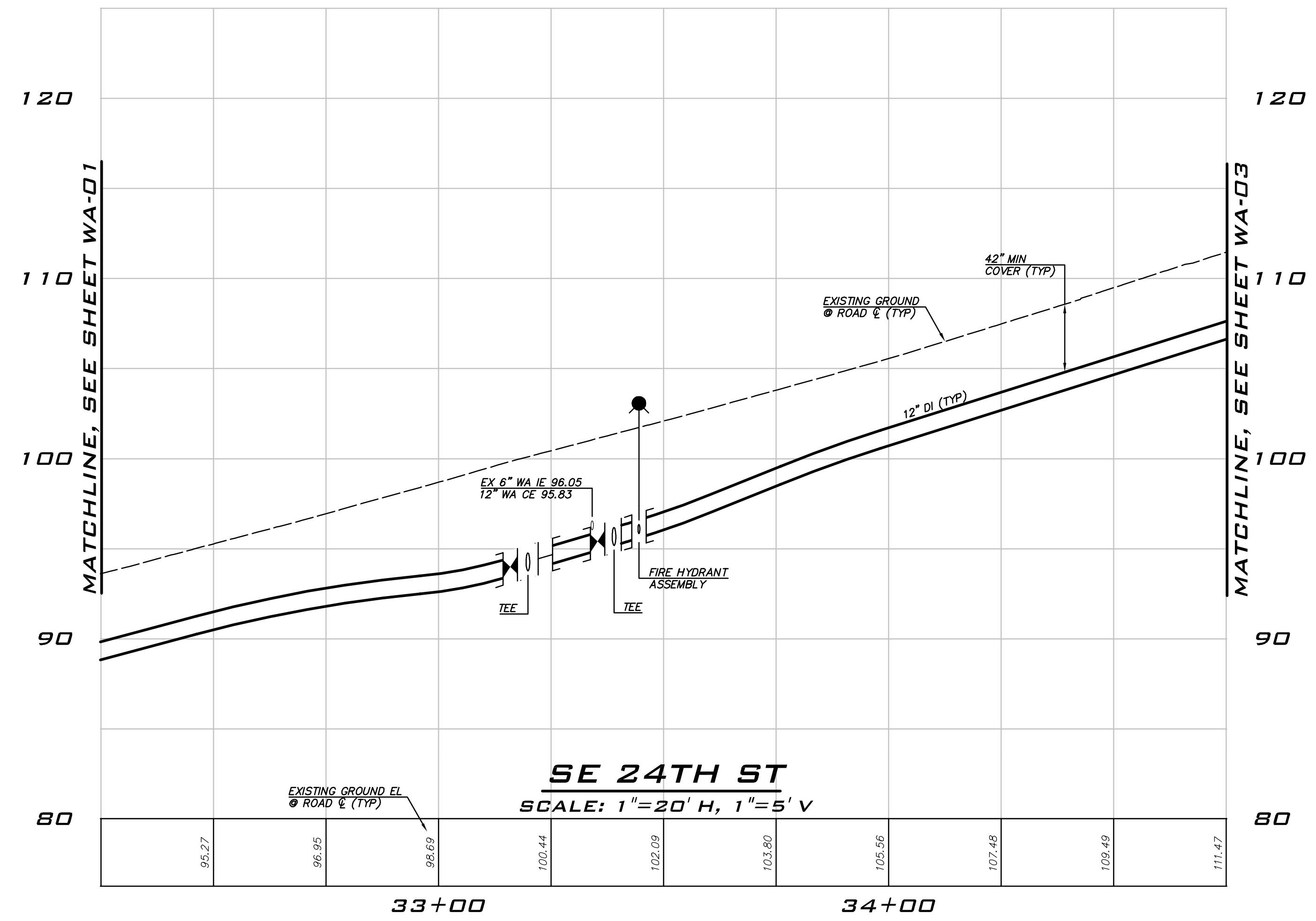


- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.

EXISTING UTILITY NOTE

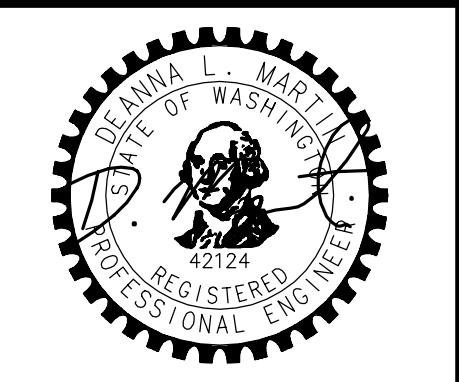
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION 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.



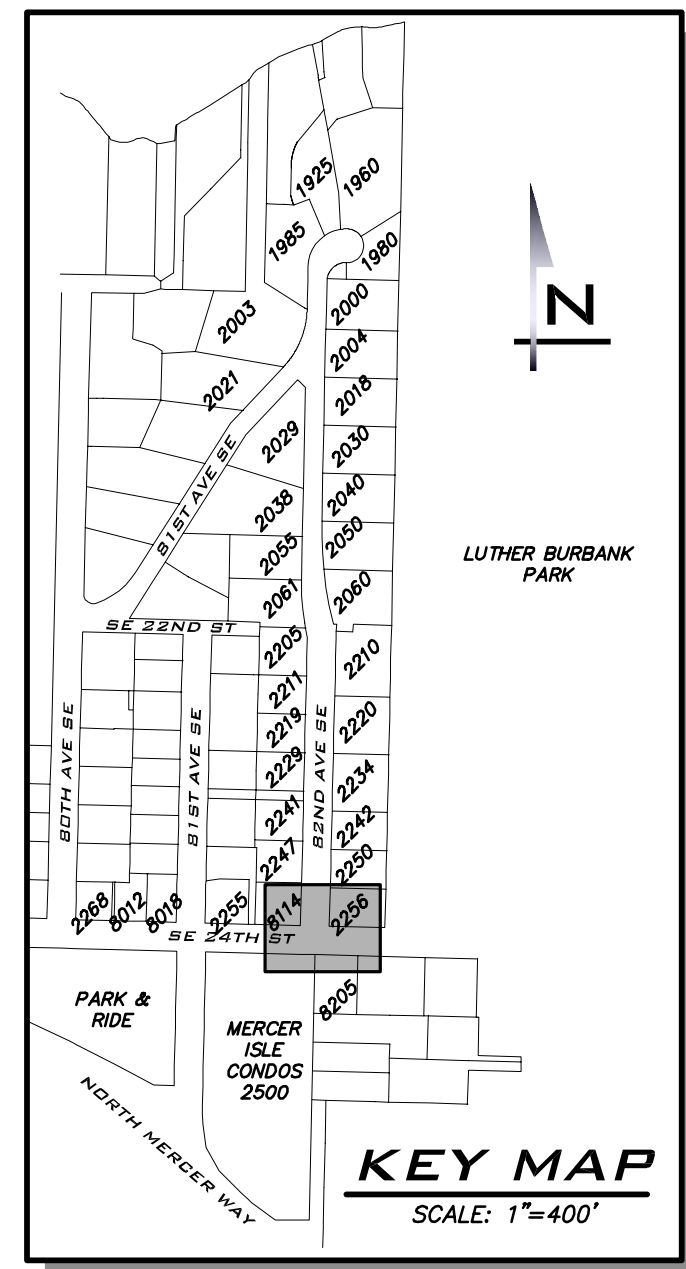
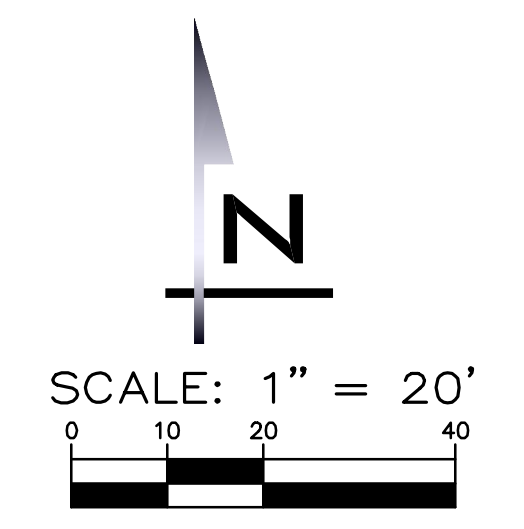
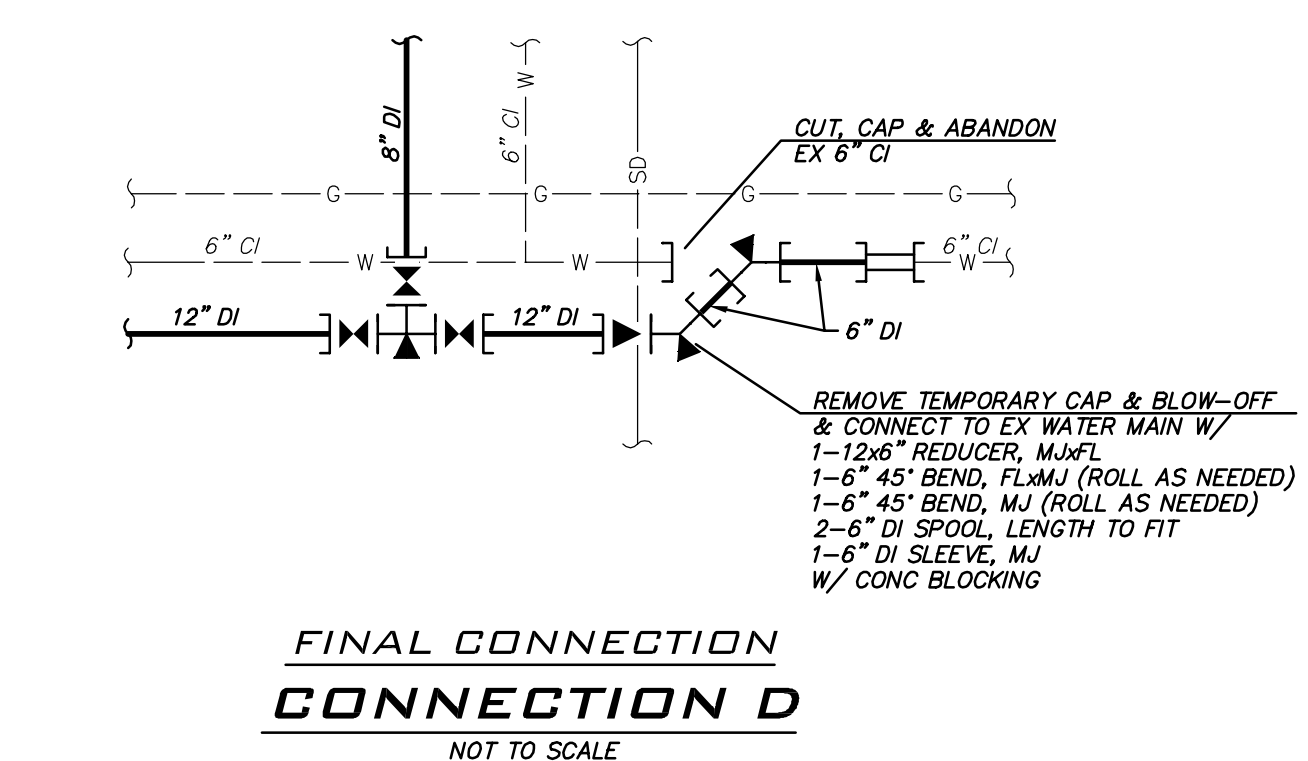
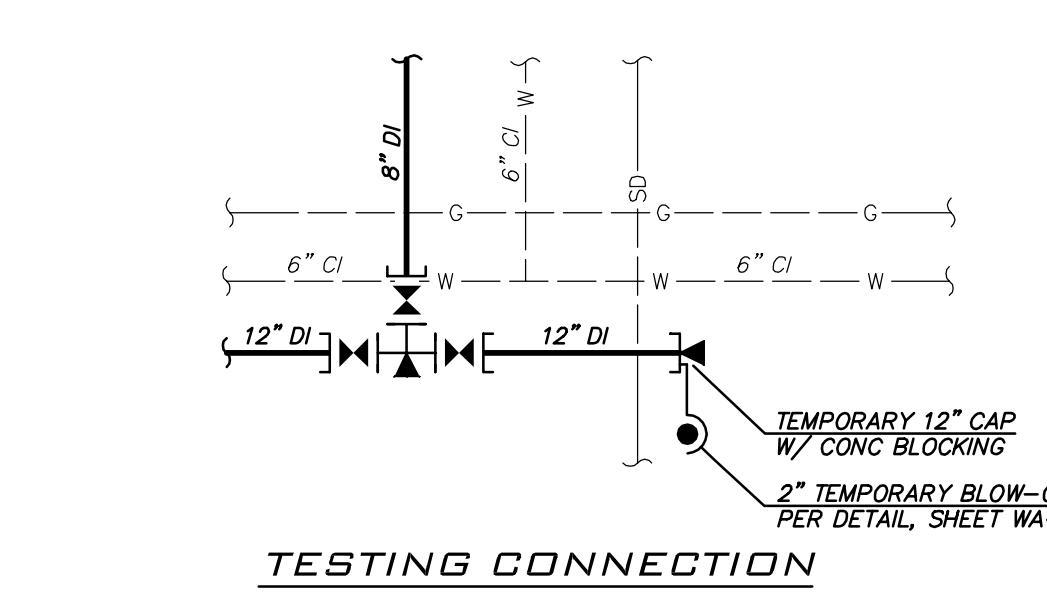
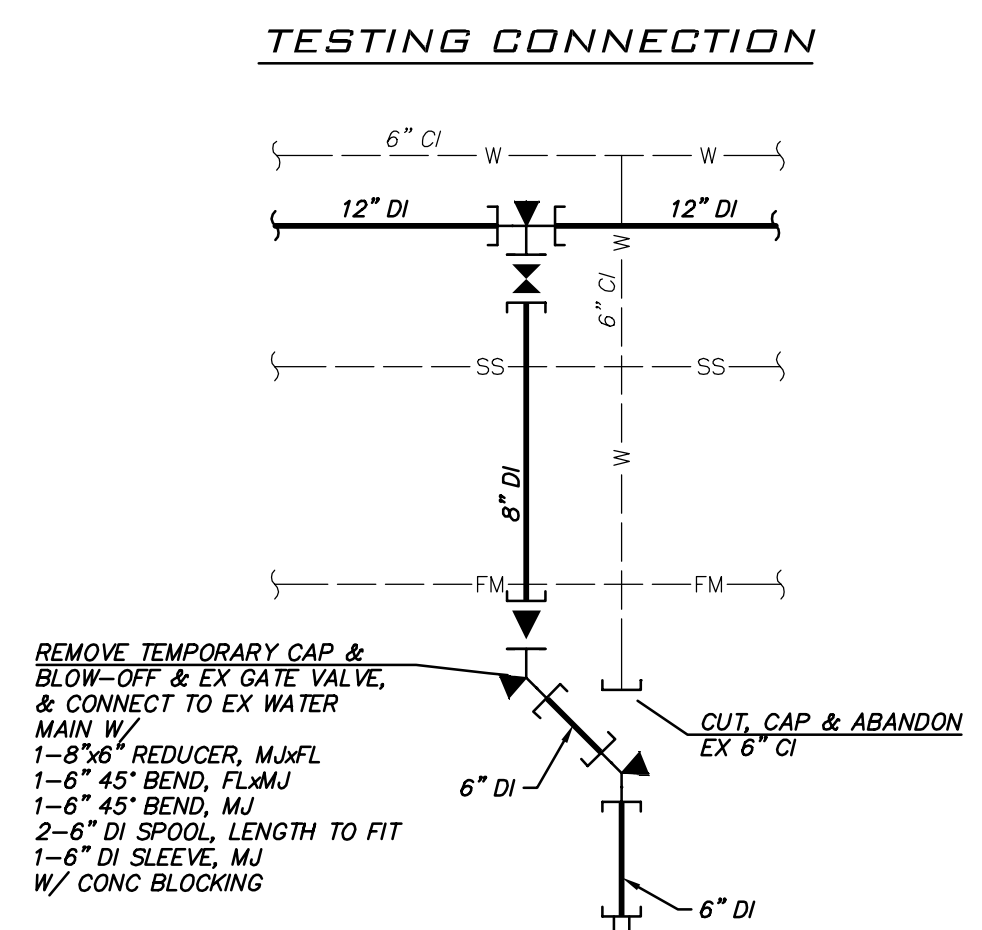
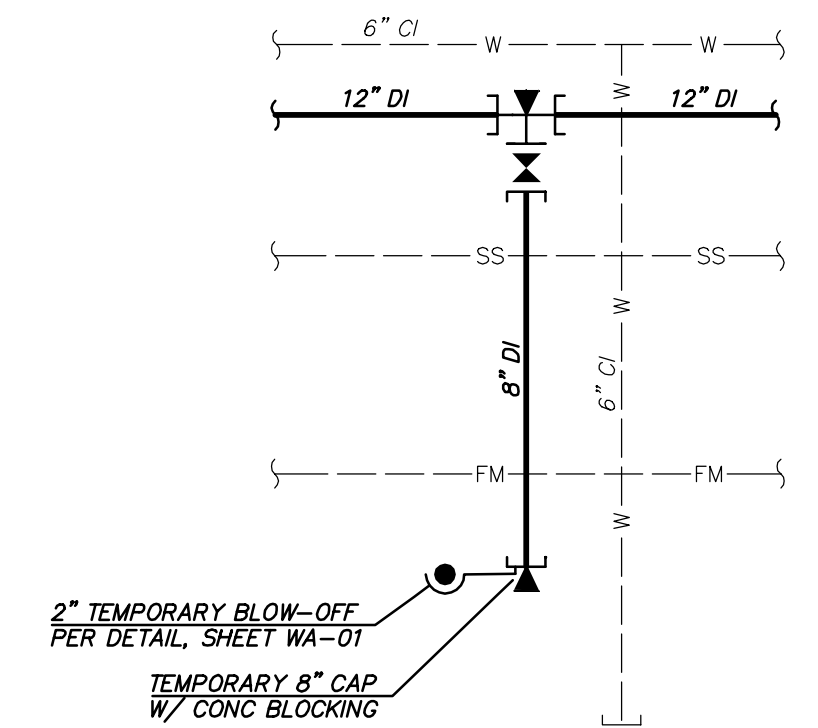
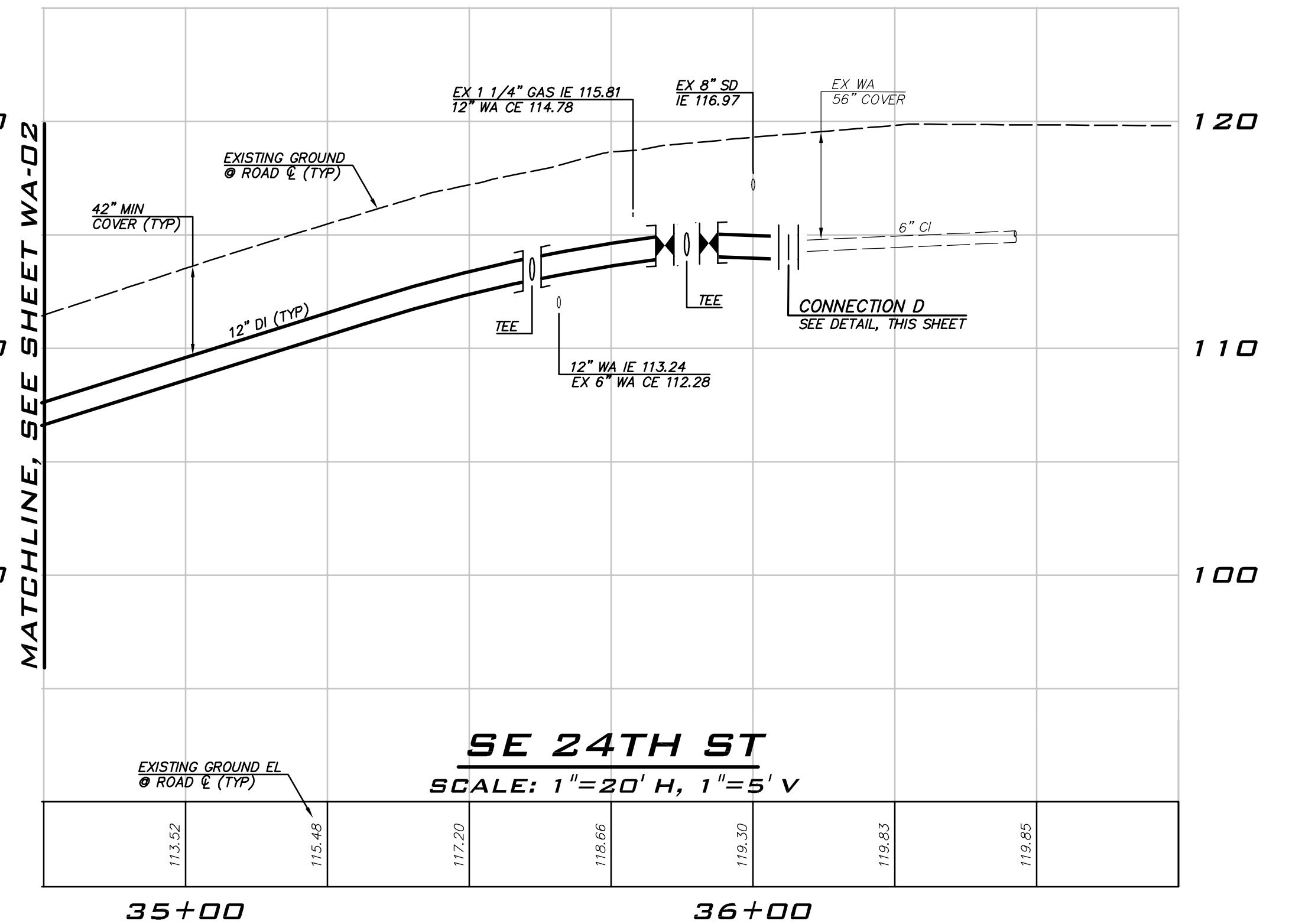
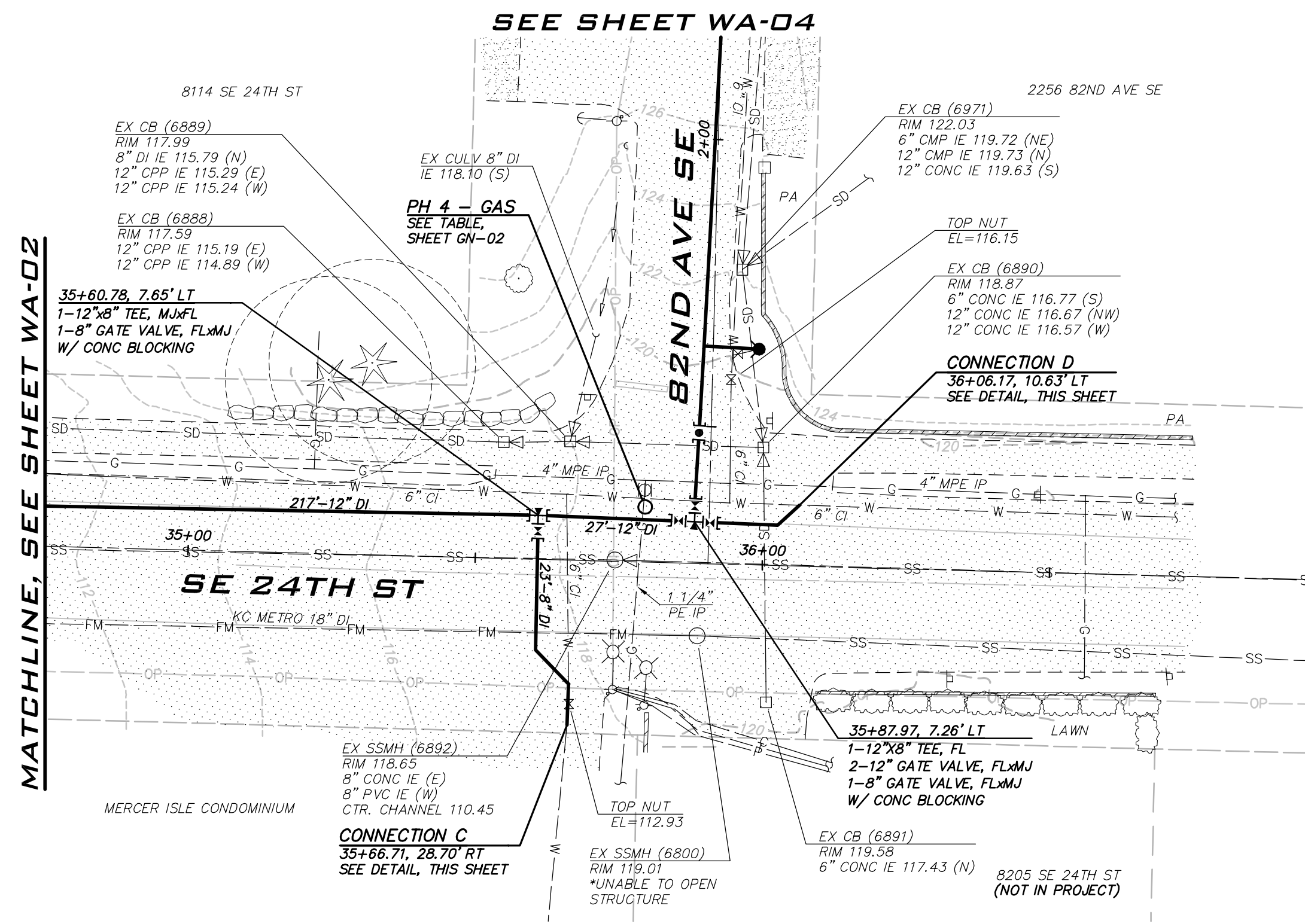
22-034
 Feb 23, 2021 4:51pm User: cdoggett
 C:\Projects\2020\2020-Water-Water-2020-WA-01-03.dwg

NO	DATE	BY	REVISIONS

WATER PLAN - SE 24TH ST
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



2/23/21
 JOB NUMBER:
 20-286
 SHEET NAME:
 WA-02
 SHT 11 OF 26



- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE 100' FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.

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.

BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
DEANNA L. MARTIN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
2/23/2021

NO	DATE	BY	REVISIONS

WATER PLAN - SE 24TH ST
2021 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



2/23/21

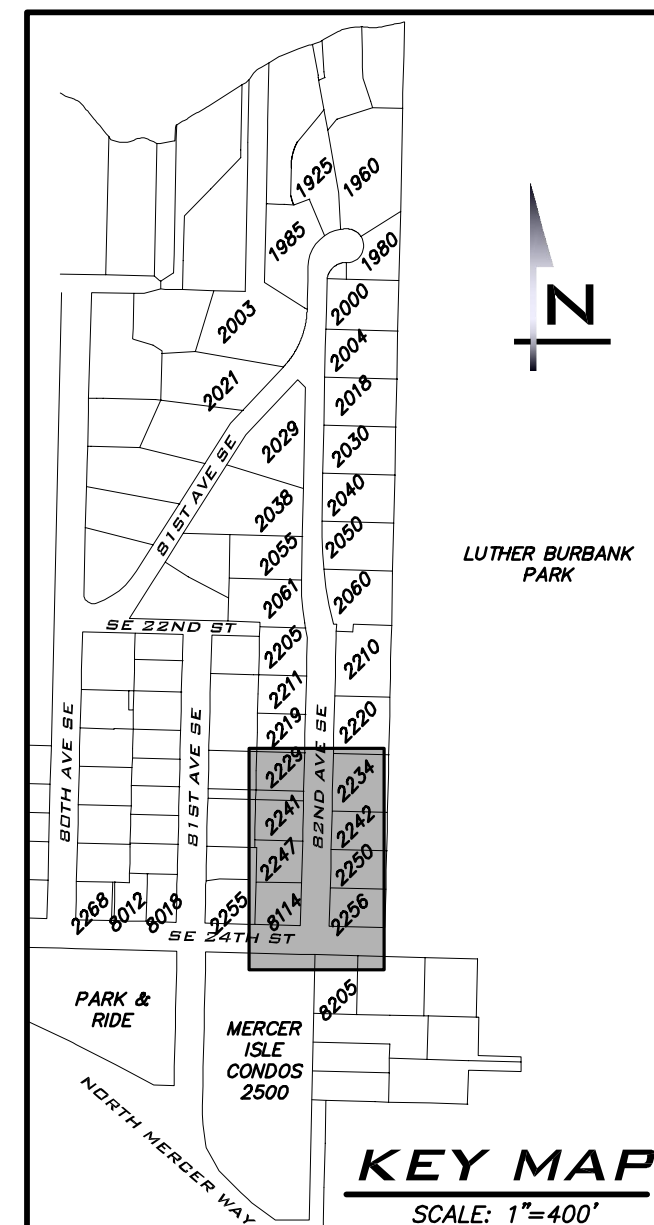
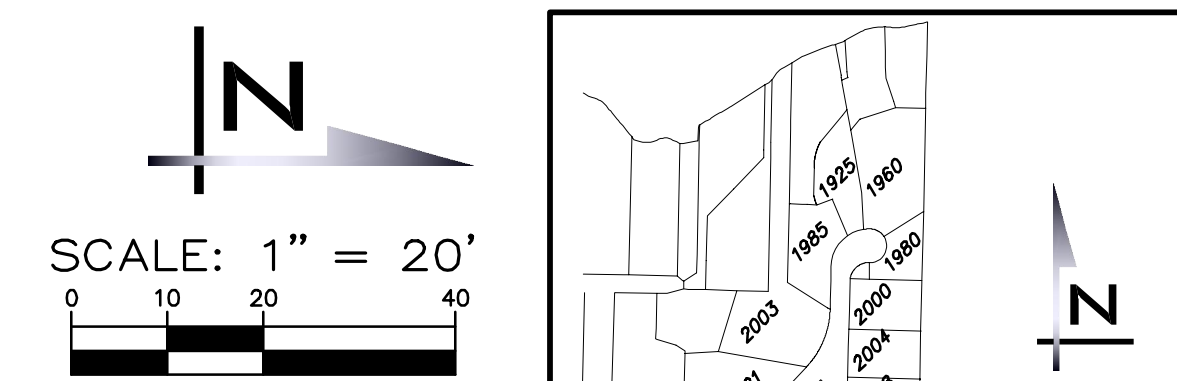
JOB NUMBER:
20-286

SHEET NAME:
WA-03

SHT **12** OF **26**

22-234
Feb 23, 2021 4:51pm User: cdoggett
E:\Projects\2020\2020-Water\2020-Water\03.dwg

SEE SHEET WA-03



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUENELINEGROUP.COM

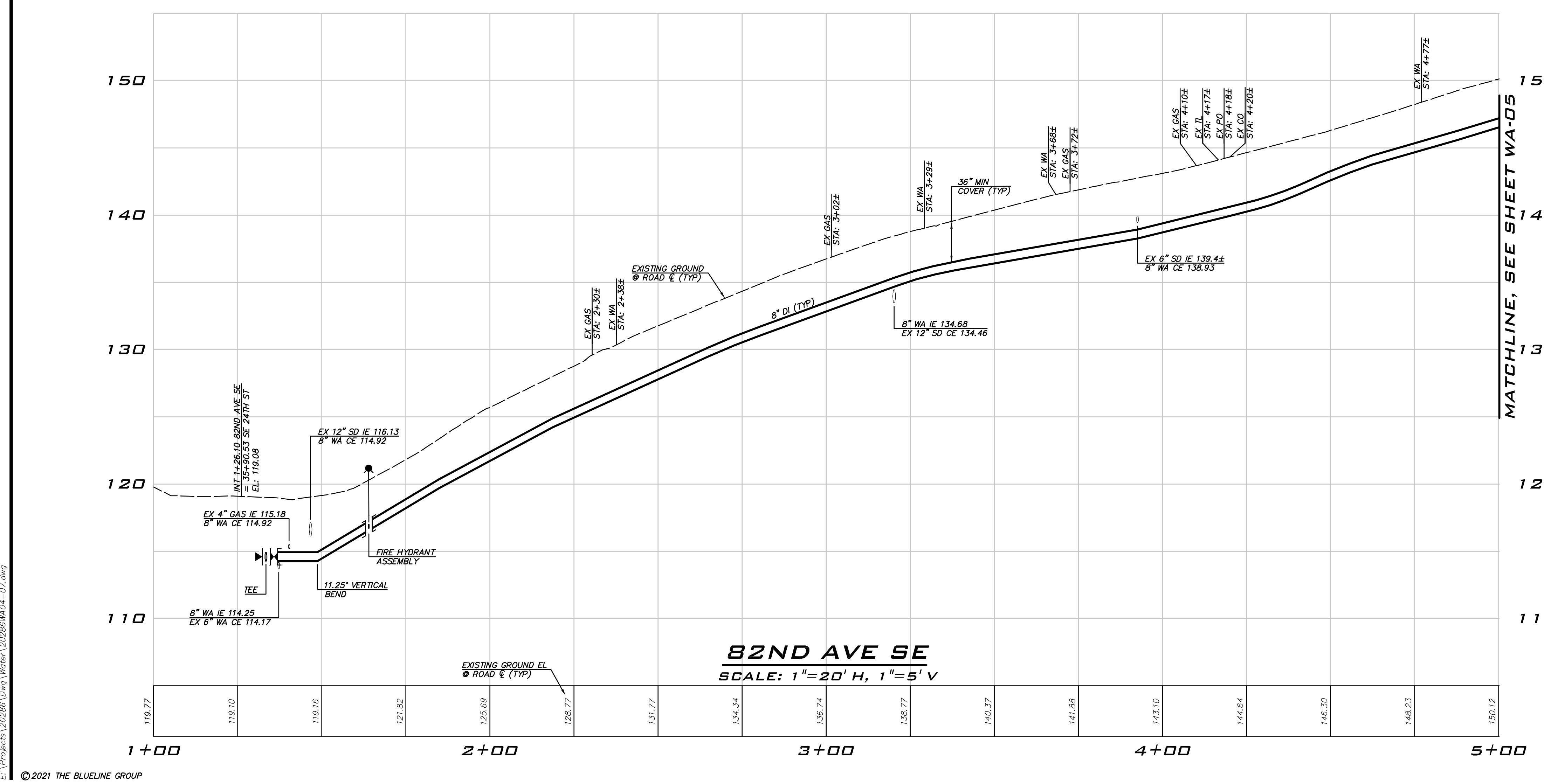
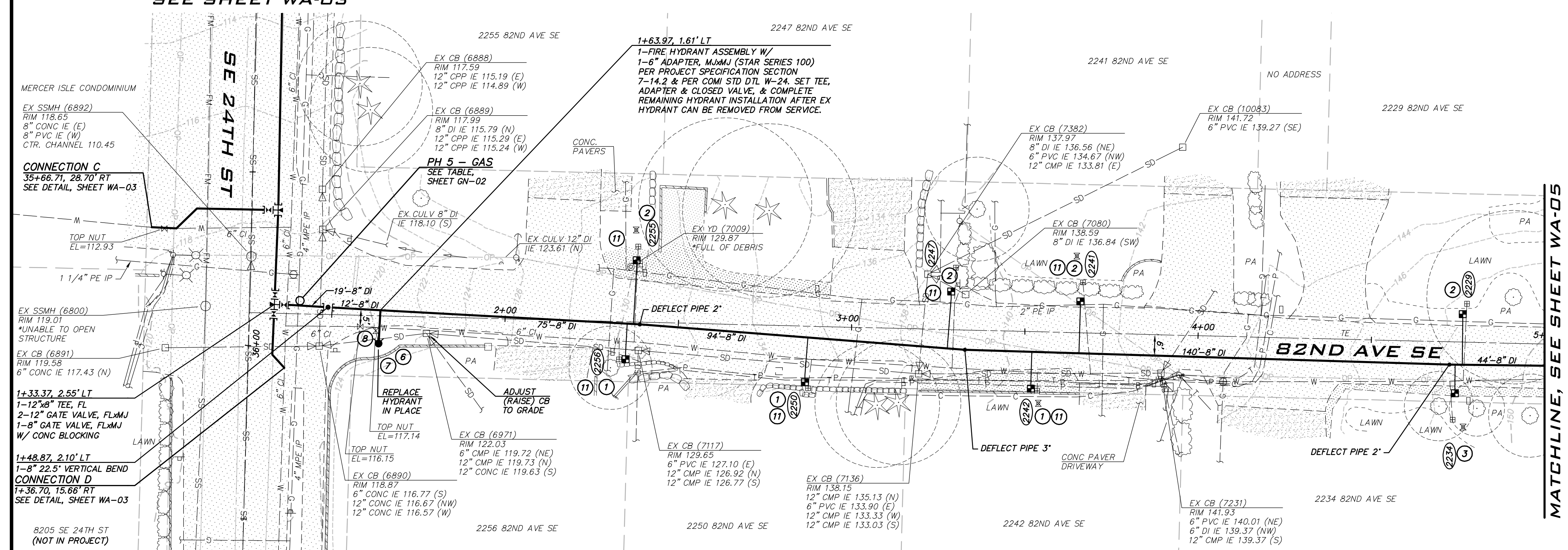
SCALE:
AS NOTED

PROJECT MANAGER:
DEANNA L. MARTIN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
2/23/2021



- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE. REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.

EXISTING UTILITY NOTE

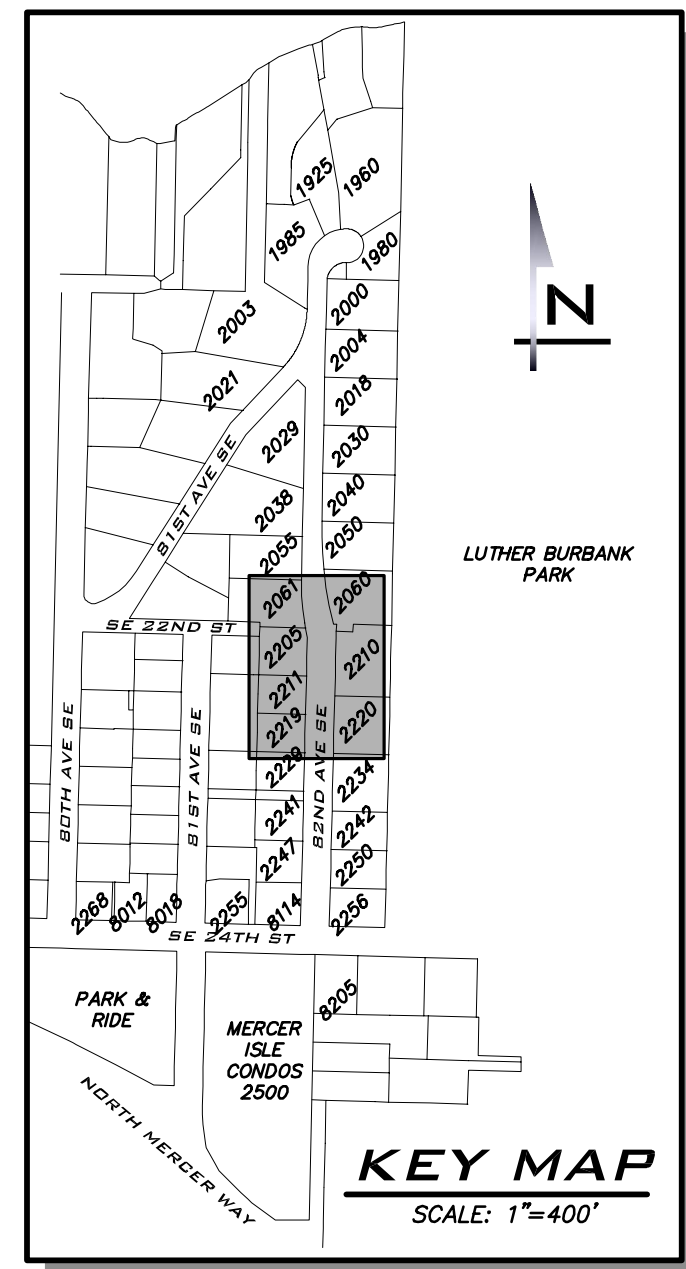
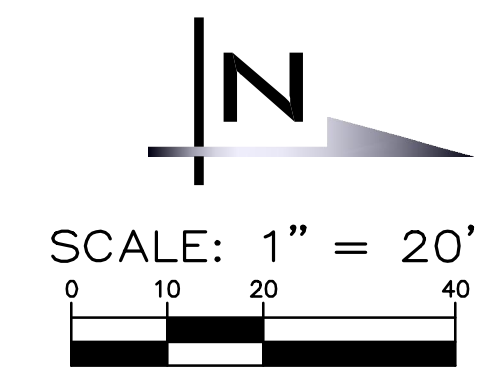
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION 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.

NO	DATE	BY

WATER PLAN - 82ND AVE SE
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



2/23/21
 JOB NUMBER:
20-286
 SHEET NAME:
WA-04
 SHT 13 OF 26



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
 WWW.THEBLUELINEGROUP.COM

SCALE:
 AS NOTED

PROJECT MANAGER:
 DEANNA L. MARTIN, PE

PROJECT ENGINEER:
 GRACE GARWIN, EIT

DESIGNER:
 CAROL DOGGETT

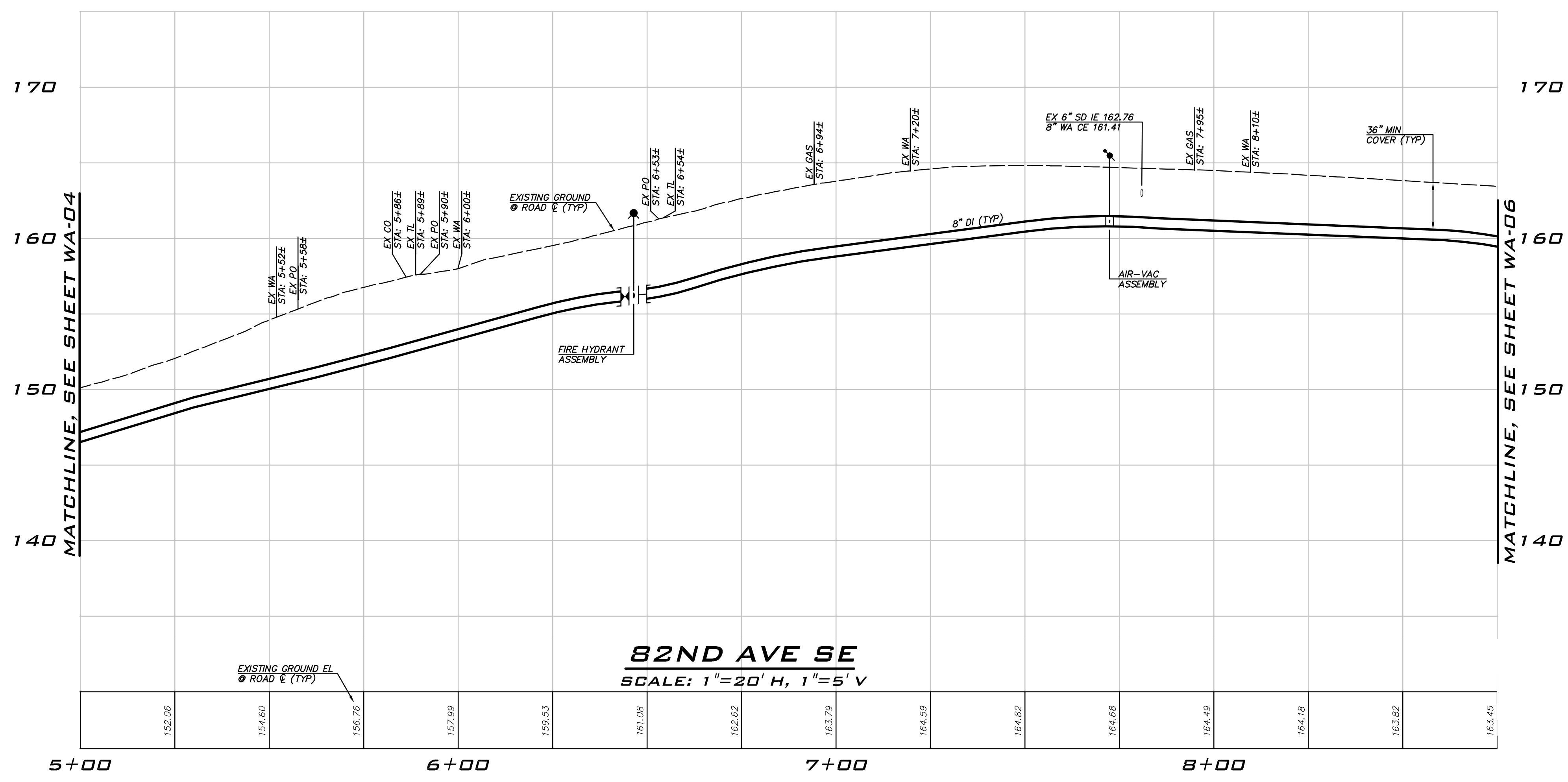
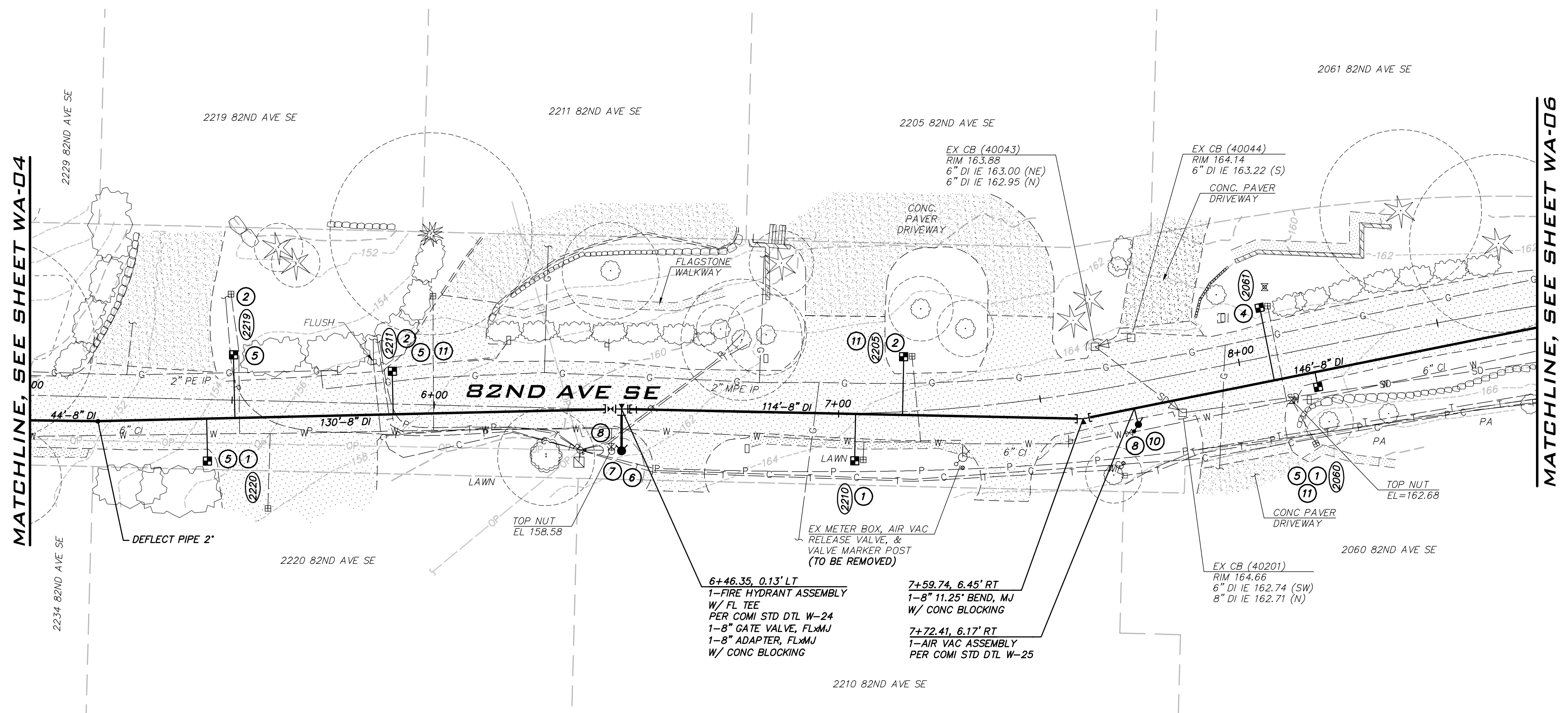
ISSUE DATE:
 2/23/2021

NO	DATE	BY	REVISIONS

WATER PLAN - 82ND AVE SE
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



2/23/21
 JOB NUMBER:
20-286
 SHEET NAME:
WA-05
 SHT 14 OF 26

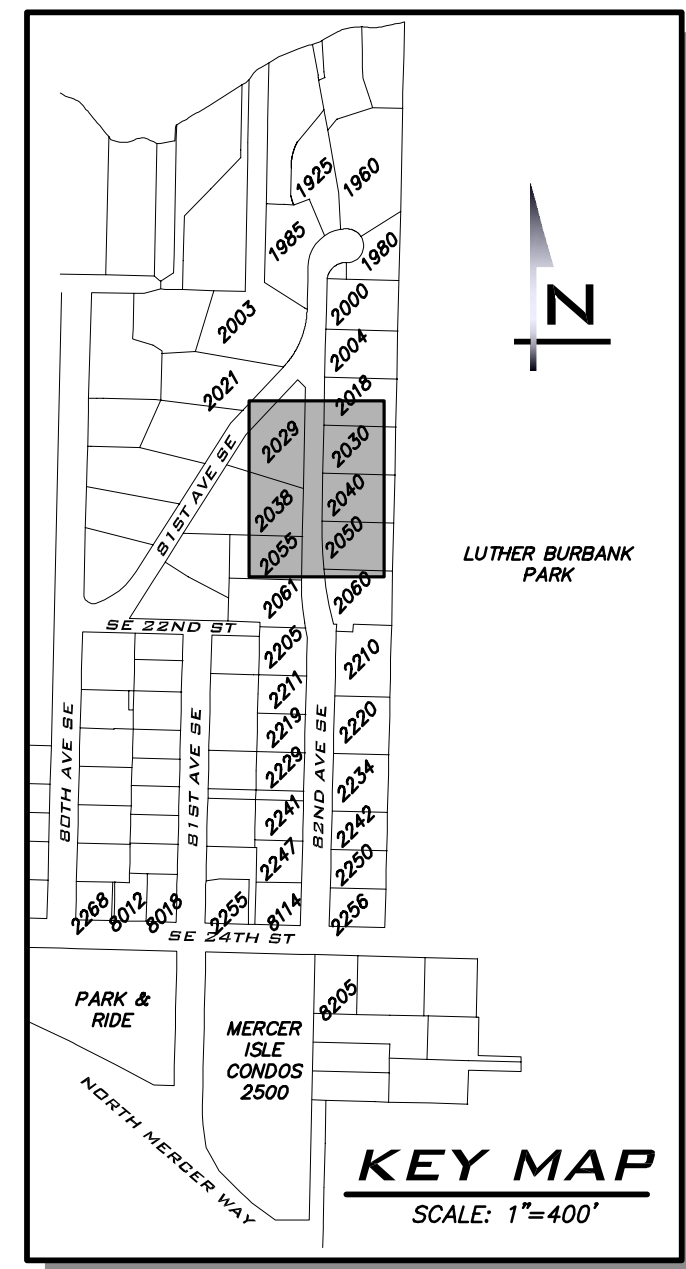
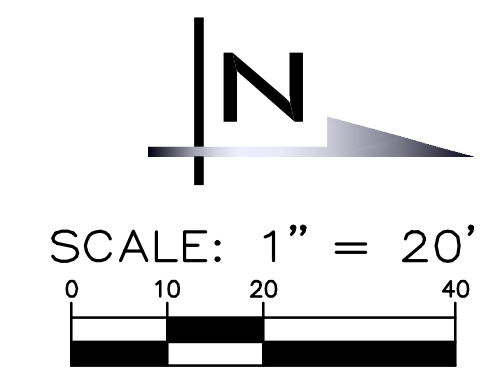


- CONSTRUCTION NOTES**
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

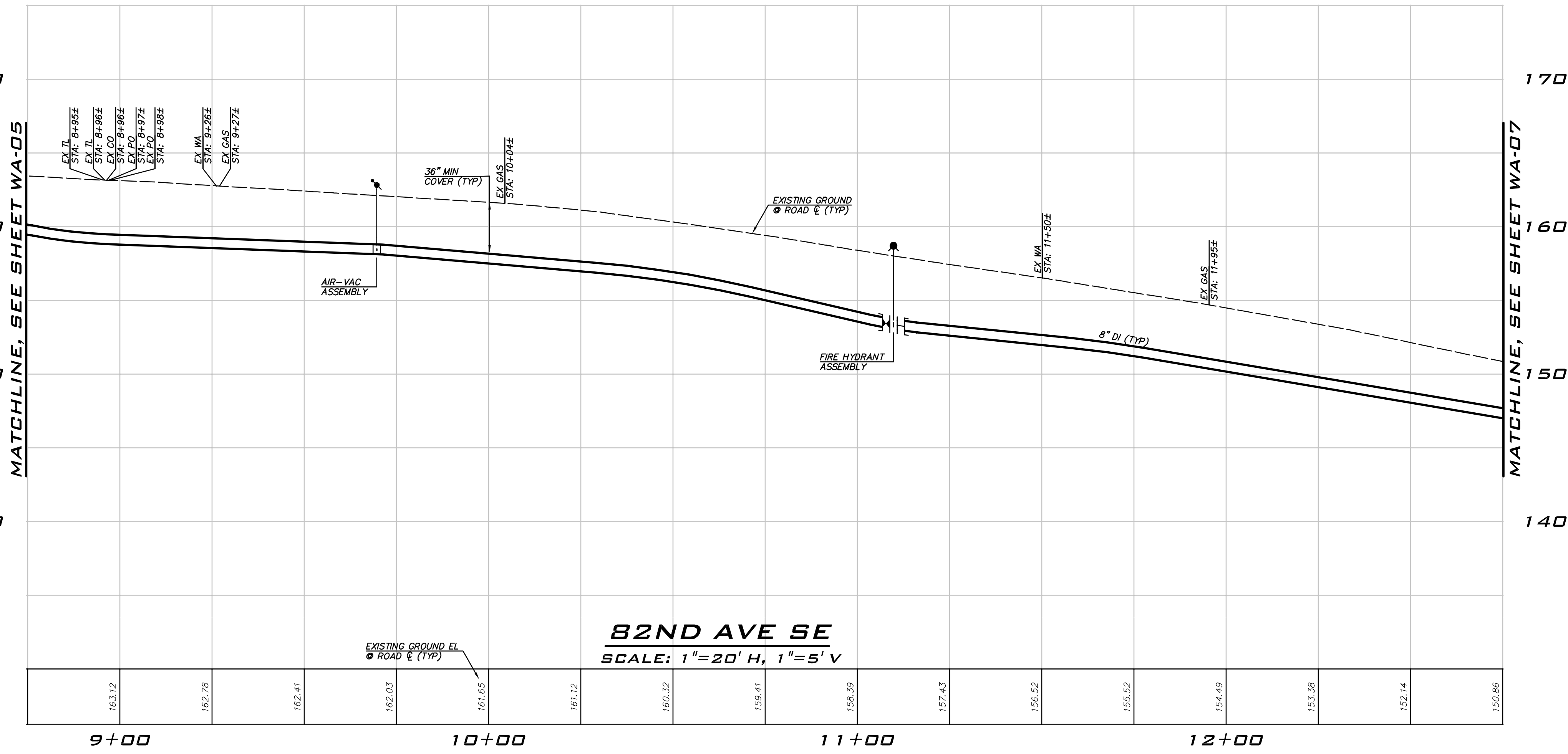
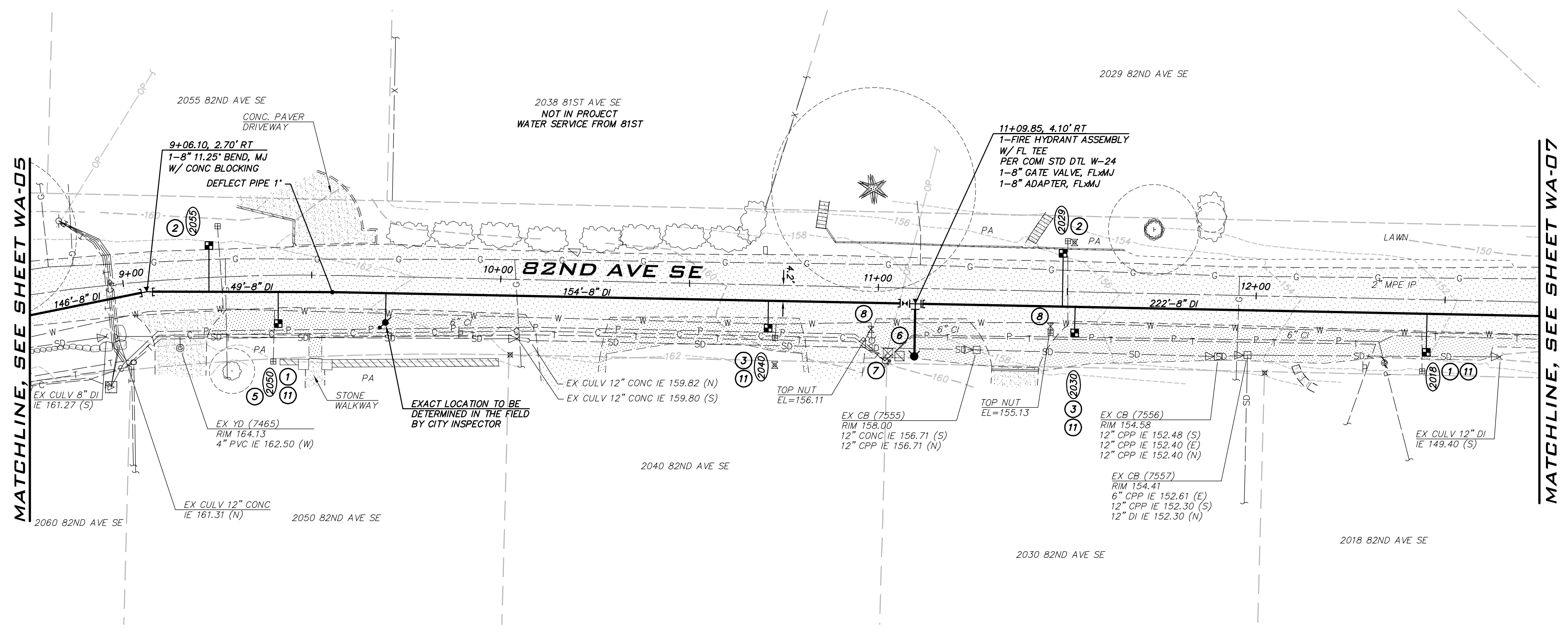
- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE. REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.

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.



SCALE: AS NOTED
 PROJECT MANAGER: DEANNA L. MARTIN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 2/23/2021



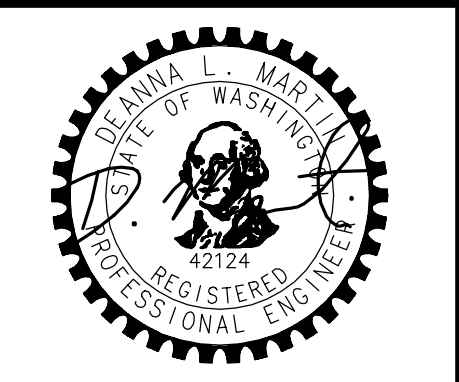
- ### CONSTRUCTION NOTES
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- ### NOTES
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE 100' FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE. REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.

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.

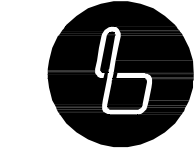
NO	DATE	BY	REVISIONS

WATER PLAN - 82ND AVE SE
 2021 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



2/23/21
 JOB NUMBER: 20-286
 SHEET NAME: WA-06
 SHT 15 OF 26

22-234
 Feb 23, 2021 4:52pm User: cadoggett
 E:\Projects\2020\20-286\WSP\Water\2020\82ndAve-07.dwg
 ©2021 THE BLUeline GROUP

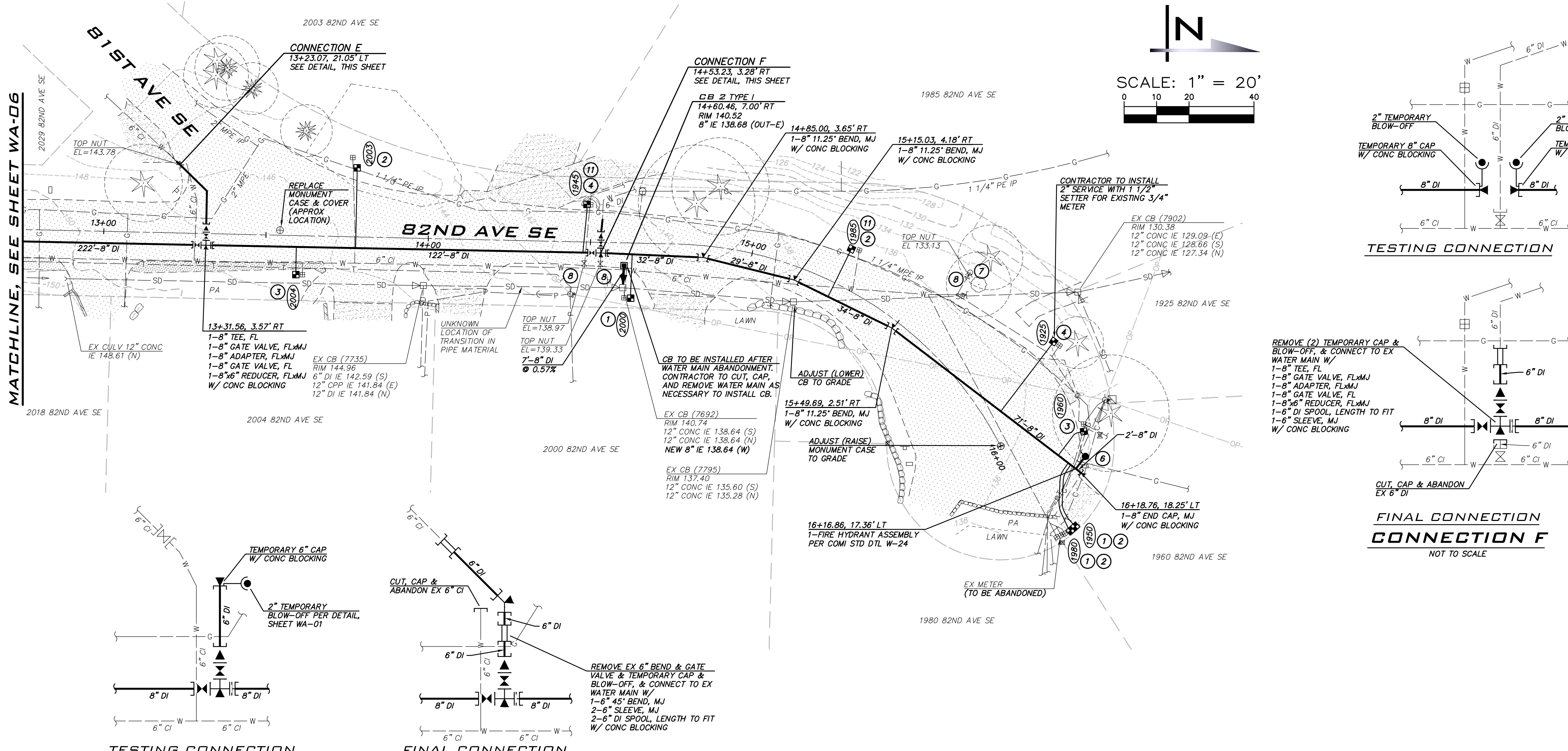


BLUELINE

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

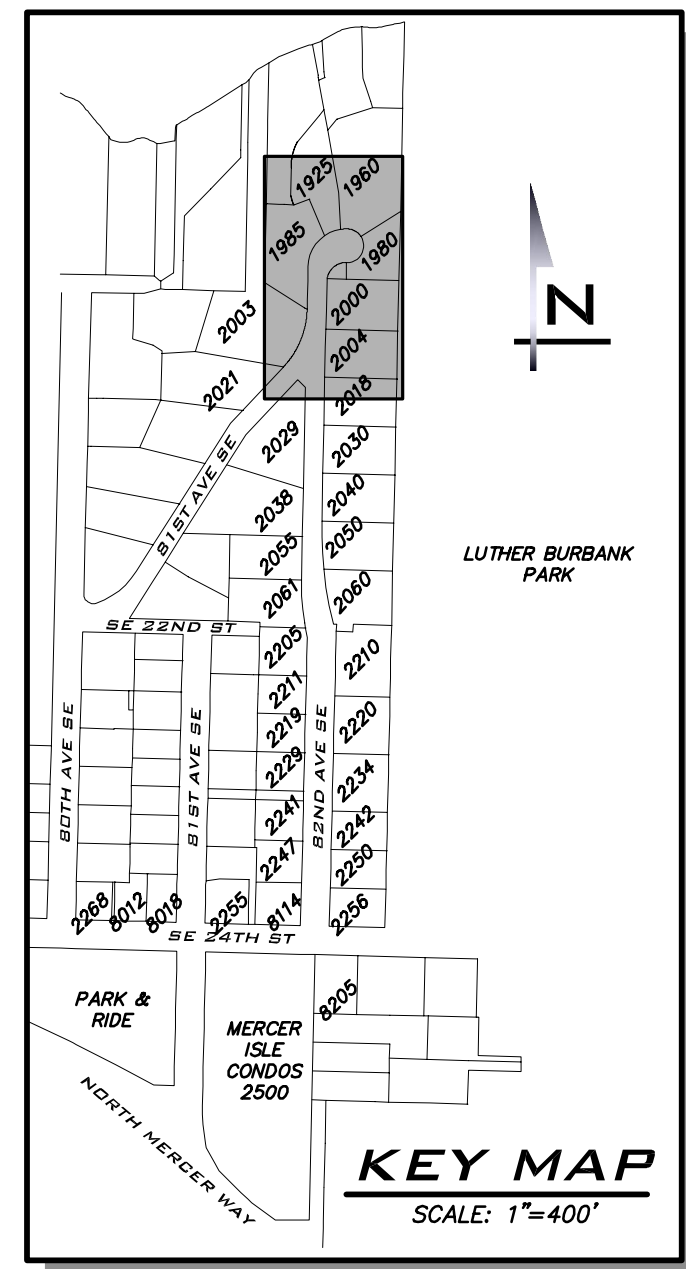
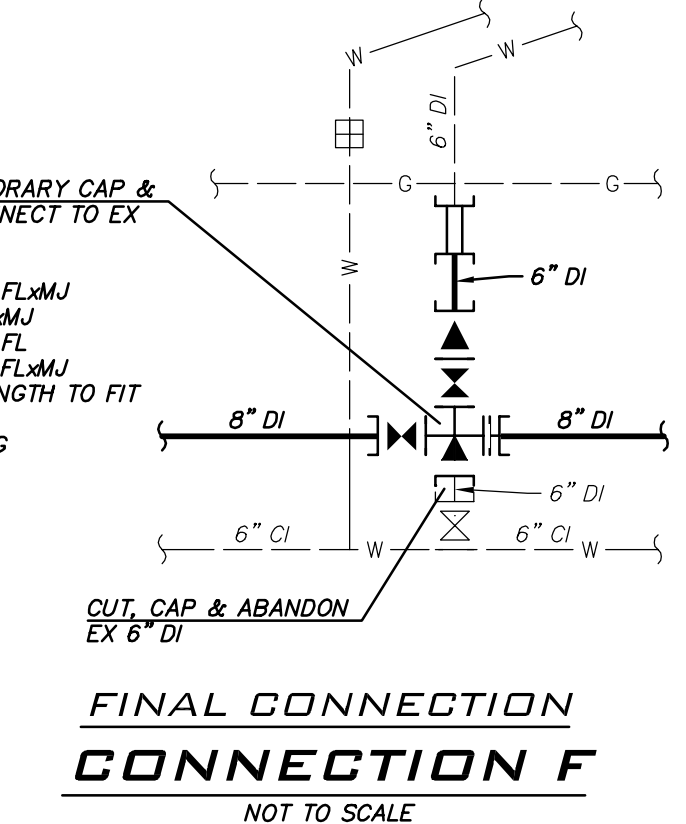
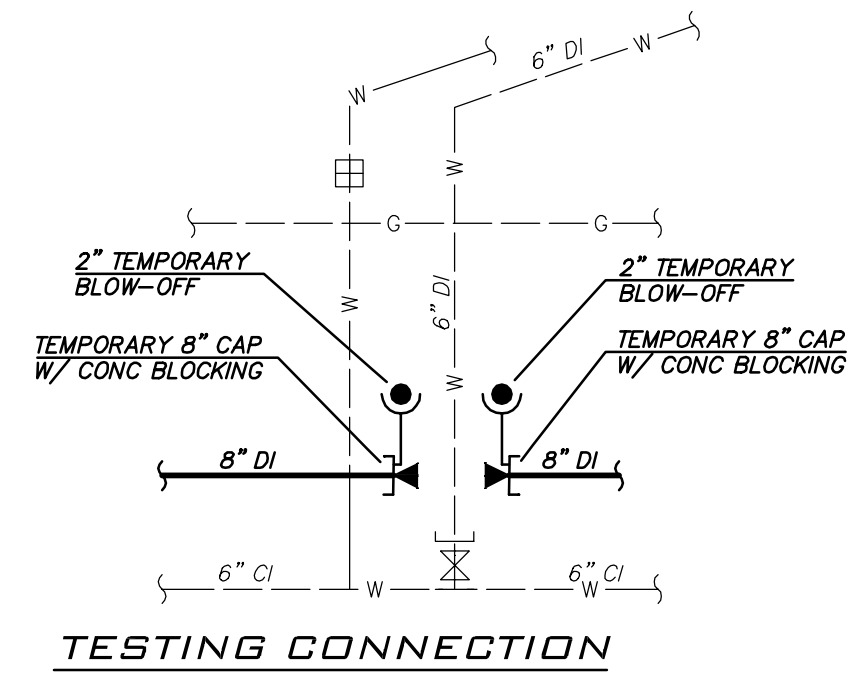
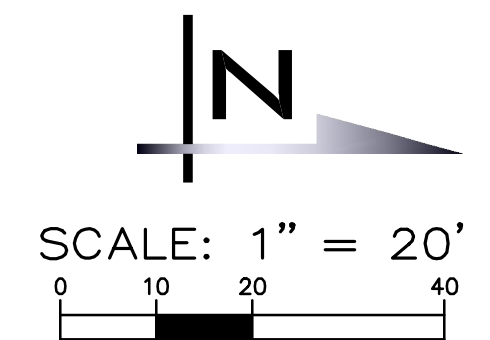
SCALE: AS NOTED
PROJECT MANAGER: DEANNA L. MARTIN, PE
PROJECT ENGINEER: GRACE GARWIN, EIT
DESIGNER: CAROL DOGGETT
ISSUE DATE: 2/23/2021

NO	DATE	BY	REVISIONS



MATCHLINE, SEE SHEET WA-06

MATCHLINE, SEE SHEET WA-06



CONSTRUCTION NOTES

- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
- MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
- COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
- LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

NOTES

- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE 100" FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
- REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
- EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
- METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
- EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
- REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
- REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.

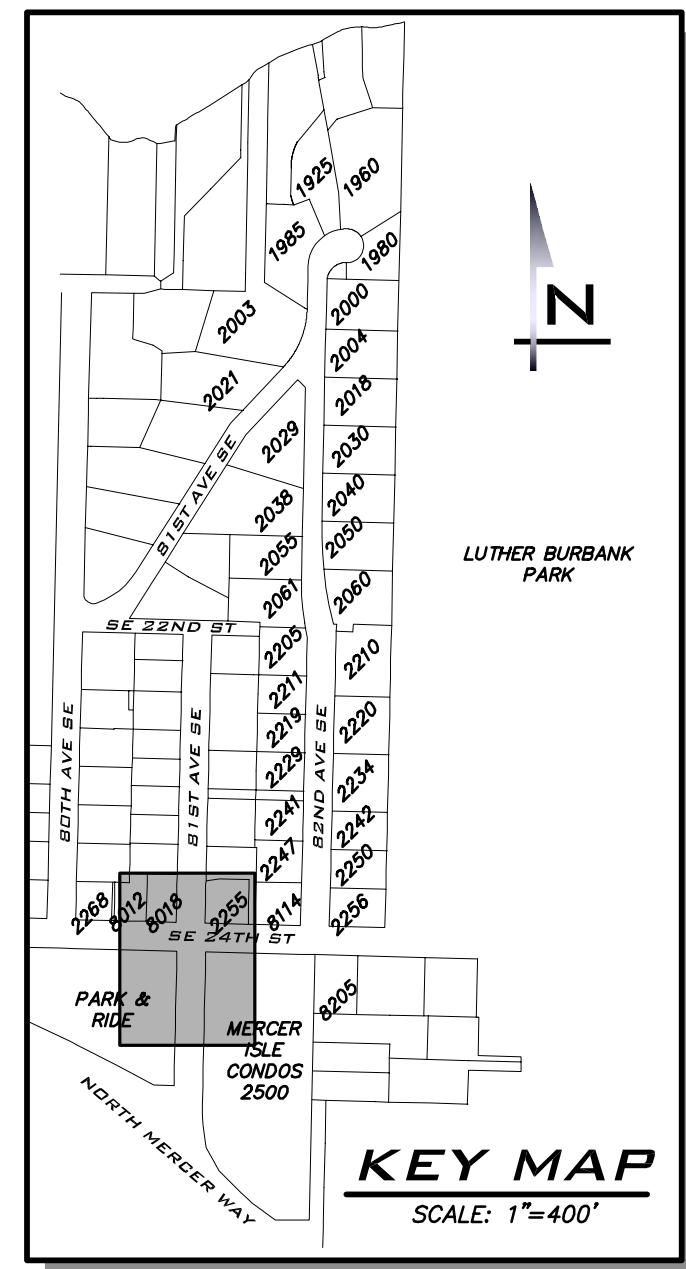
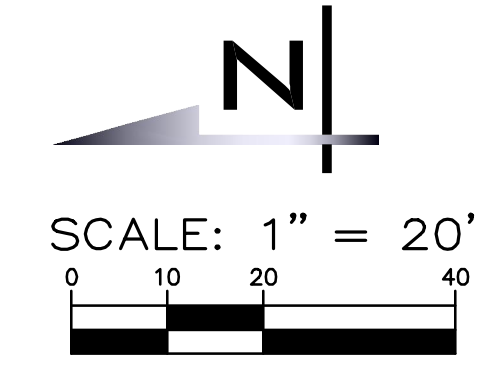
EXISTING UTILITY NOTE

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 (WASHINGTON@11.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

WATER PLAN - 82ND AVE SE
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

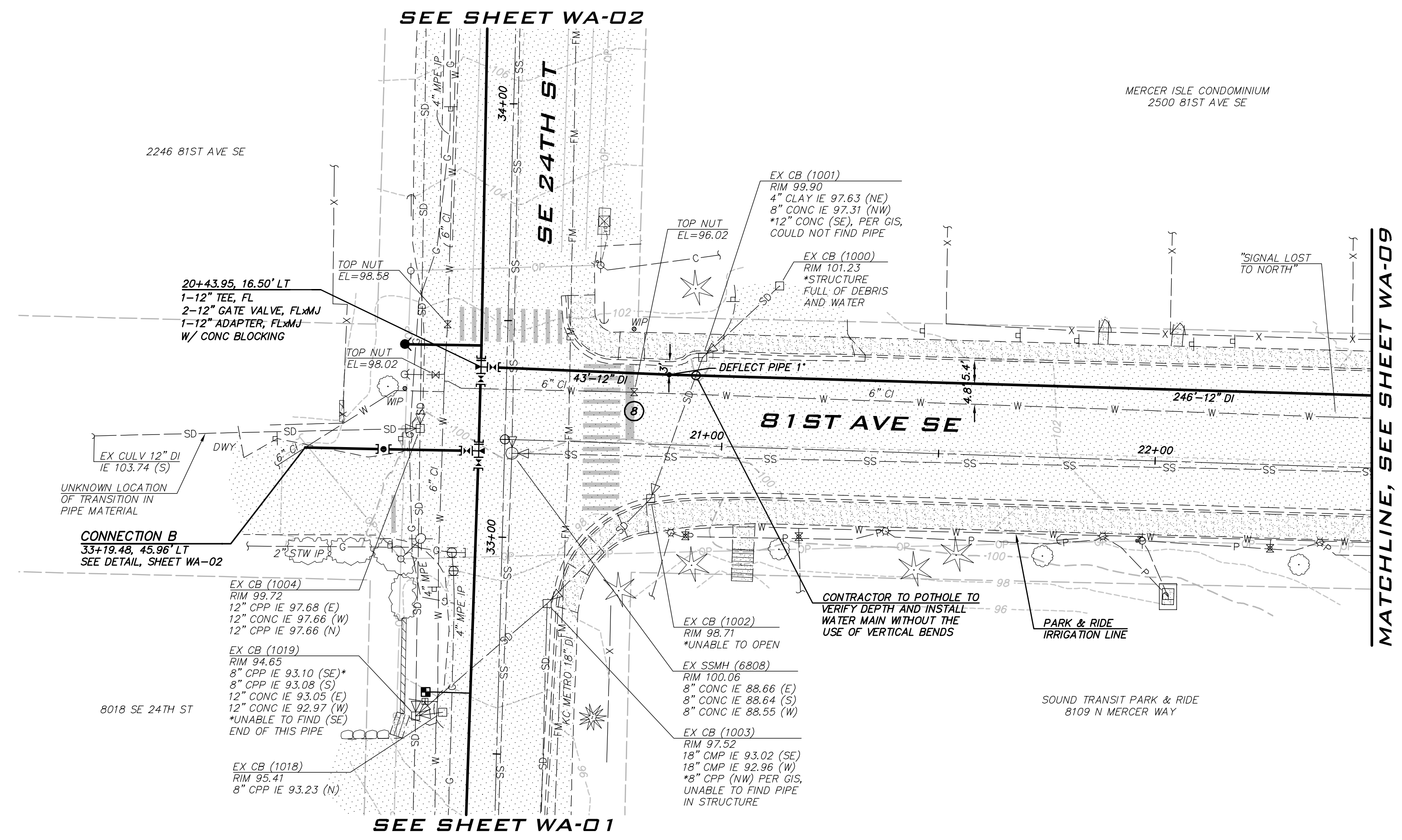


2/23/21
JOB NUMBER:
20-286
SHEET NAME:
WA-07
SHT 16 OF 26



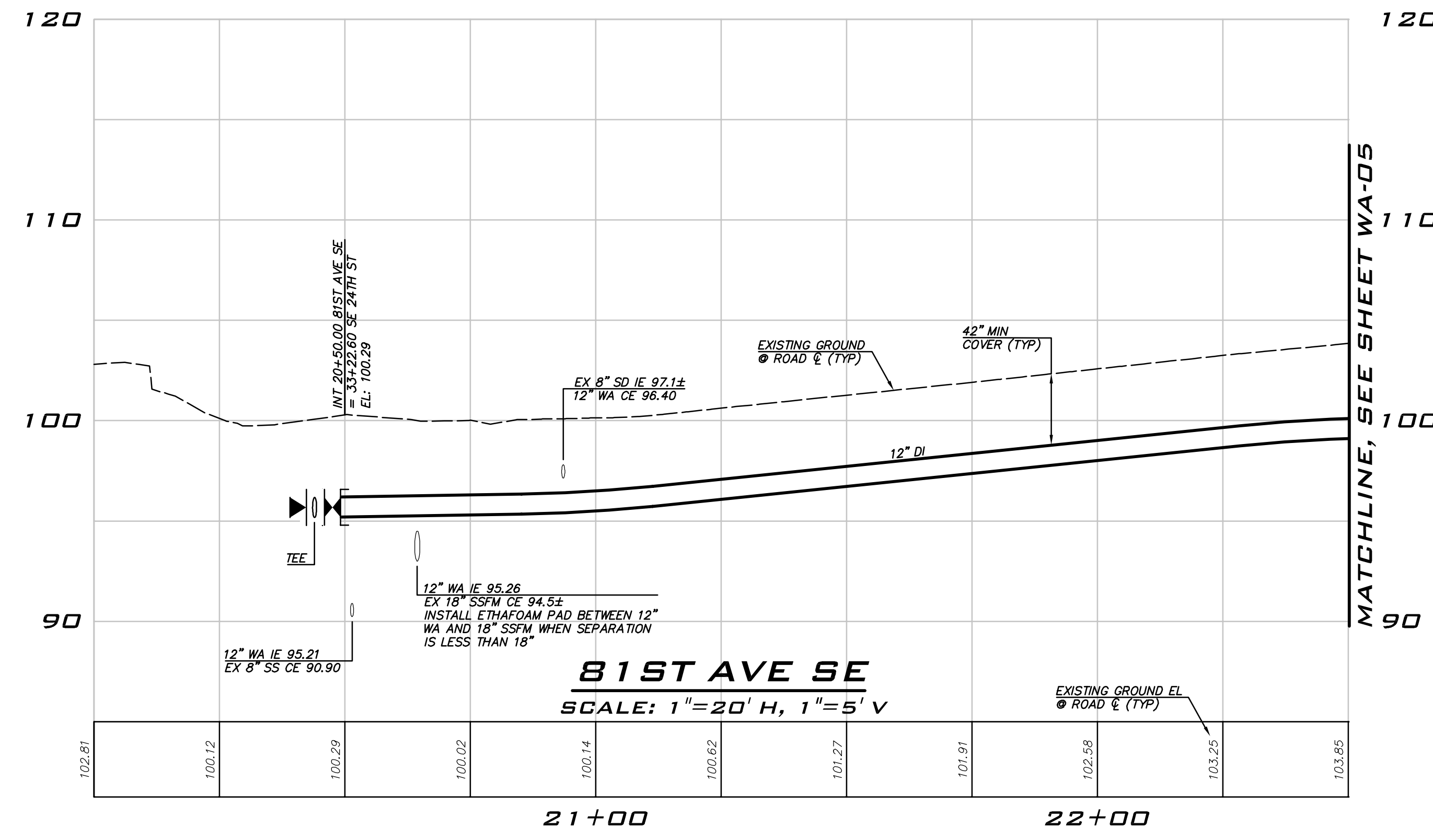
SCALE: AS NOTED
 PROJECT MANAGER: DEANNA L. MARTIN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 2/23/2021

NO	DATE	BY	REVISIONS



- ### CONSTRUCTION NOTES
- ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED WITH MEGALUGS. FIELD LOK GASKETS SHALL ONLY BE INSTALLED AT PIPE JOINTS IN FIRE HYDRANT LEADS LONGER THAN ONE PIPE SEGMENT OR WHERE SPECIFICALLY CALLED OUT IN PROFILE.
 - MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES. INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON WATER MAIN WHERE SEPARATION IS LESS THAN 6".
 - COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
 - LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE DATA AT THE TIME OF DESIGN. CONTRACTORS SHALL POT HOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION TO VERIFY DEPTHS AND HORIZONTAL ALIGNMENT AT CROSSINGS AND CONNECTIONS.

- ### NOTES
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - CONTRACTOR TO POT HOLE TO LOCATE CUSTOMER SIDE SERVICE ON CORRESPONDING PROPERTY. HOLE 100' FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE WITHIN SERVED PROPERTY.
 - CONTRACTOR TO POT HOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT. CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE. REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - REMOVE EXISTING FIRE HYDRANT, VALVE AND VALVE CAN. CAP THE TEE AT THE MAIN AS DIRECTED BY THE CITY. ALL REMOVED ITEMS SHALL BE RETURNED TO THE CITY OF MERCER ISLAND.



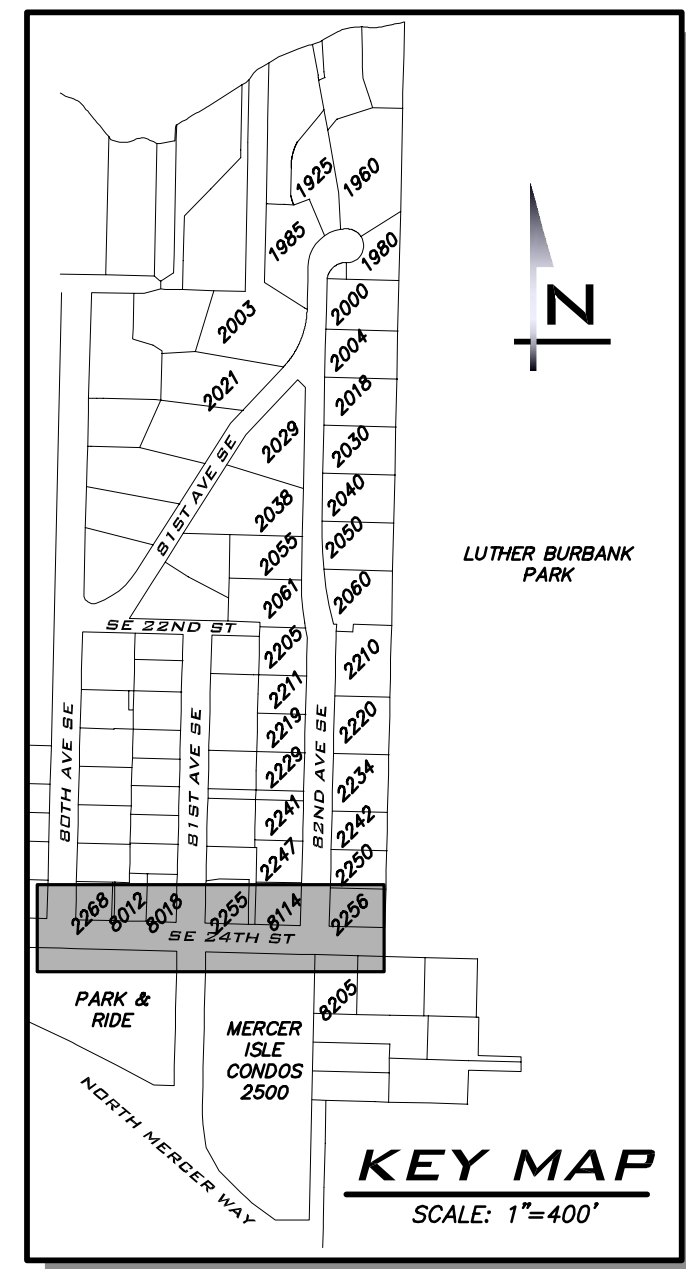
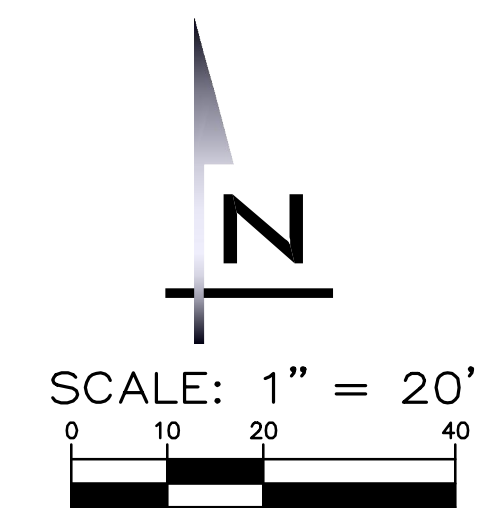
EXISTING UTILITY NOTE

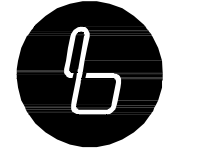
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION 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.

WATER PLAN - 81ST AVE SE
 2021 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



2/23/21
 JOB NUMBER: 20-286
 SHEET NAME: WA-08
 SHT 17 OF 26





BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

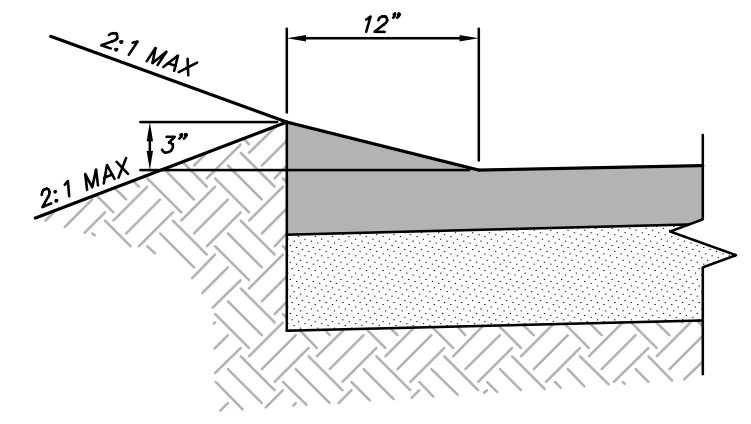
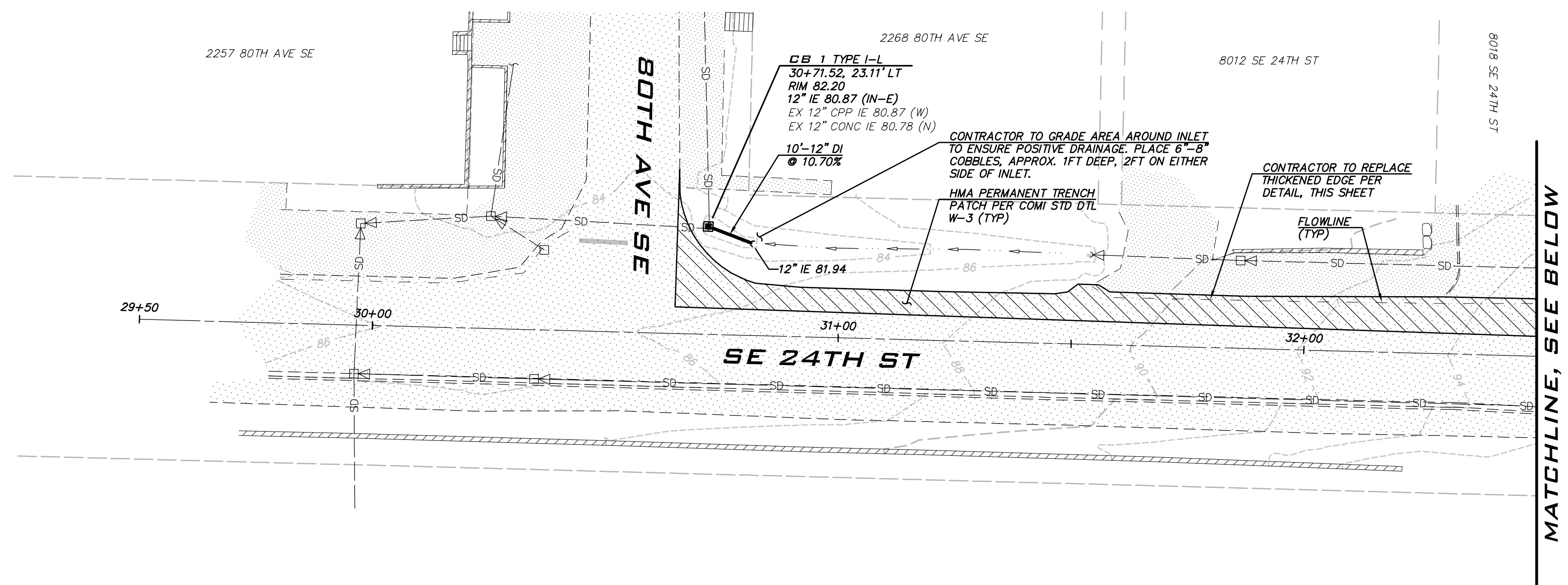
SCALE:
AS NOTED

PROJECT MANAGER:
DEANNA L. MARTIN, PE

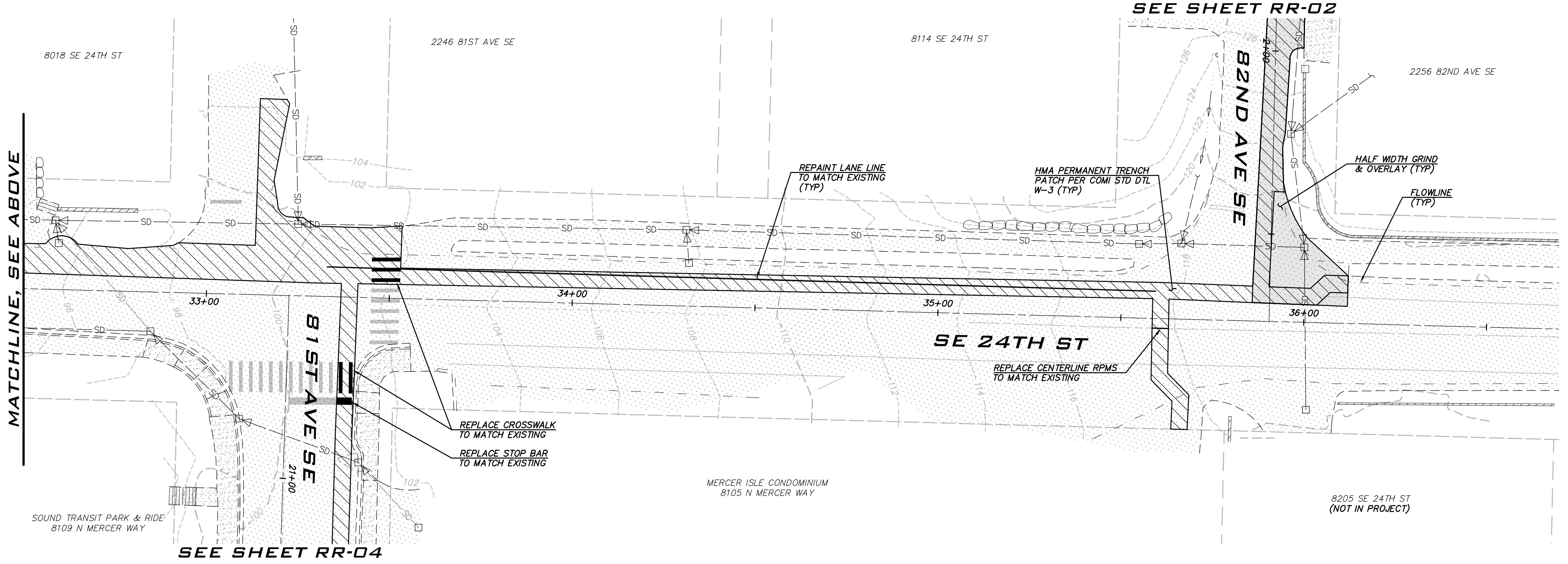
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

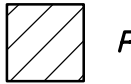

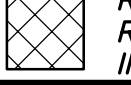
ISSUE DATE:
2/23/2021



ASPHALT THICKENED EDGE
NOT TO SCALE



LEGEND

	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	HALF WIDTH GRIND AND OVERLAY WITH 2" GRIND AND 2" OVERLAY
	ROADWAY RECONSTRUCTION AREA TO INCLUDE FULL DEPTH ASPHALT REMOVAL, PRELEVELING WITH CSTC, 4" MINIMUM COMPACTED HMA PLACED IN 2 LIFTS TO ACHIEVE 2% MINIMUM CROSS SLOPE.

- NOTES**
- 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.
 - CONTRACTOR IS RESPONSIBLE FOR BARRICADES & SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE AUTOMOBILES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.

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.

NO.	DATE	BY	REVISIONS

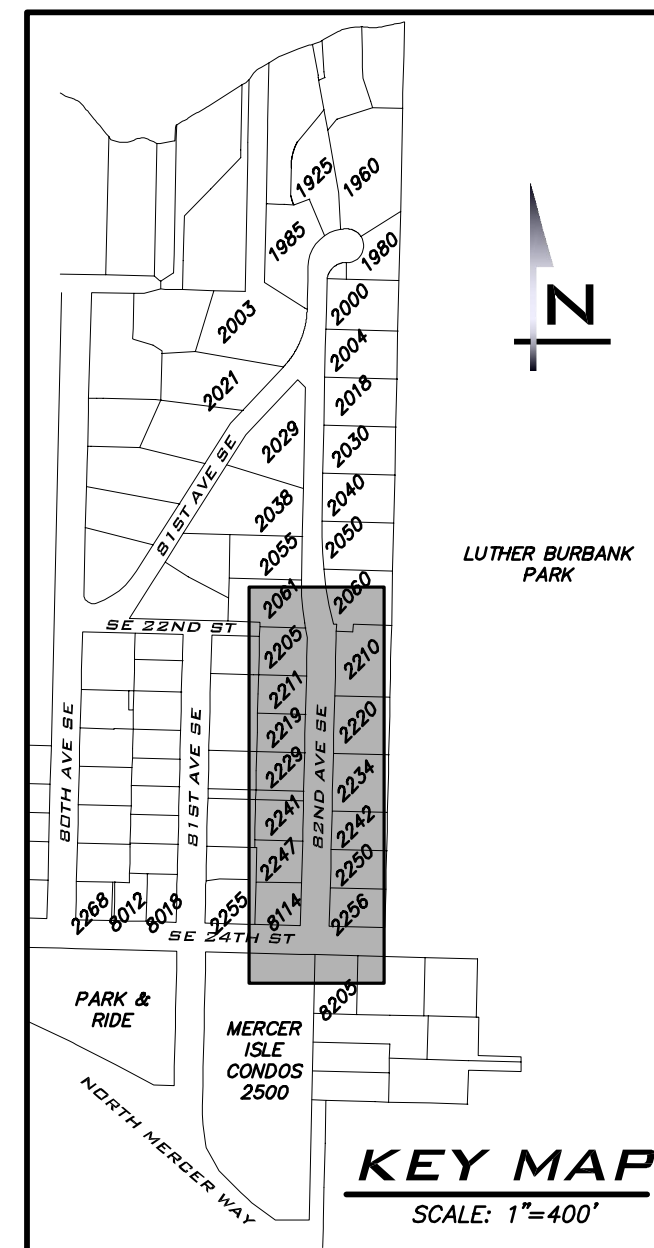
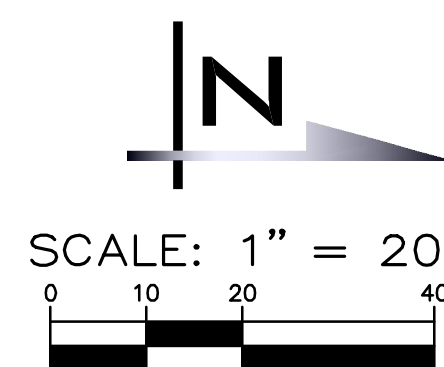
ROAD RESTORATION PLAN - SE 24TH ST
2021 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



JOB NUMBER:
20-286

SHEET NAME:
RR-01

SHT **19** OF **26**



BLUELINE

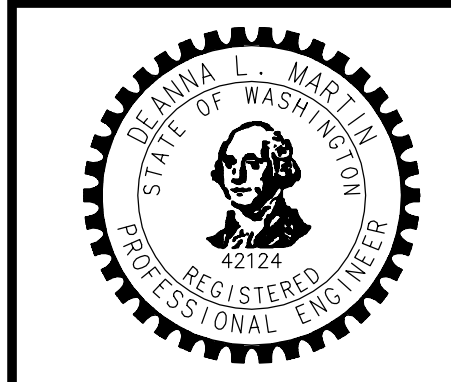
25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED
PROJECT MANAGER:
DEANNA L. MARTIN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
2/23/2021

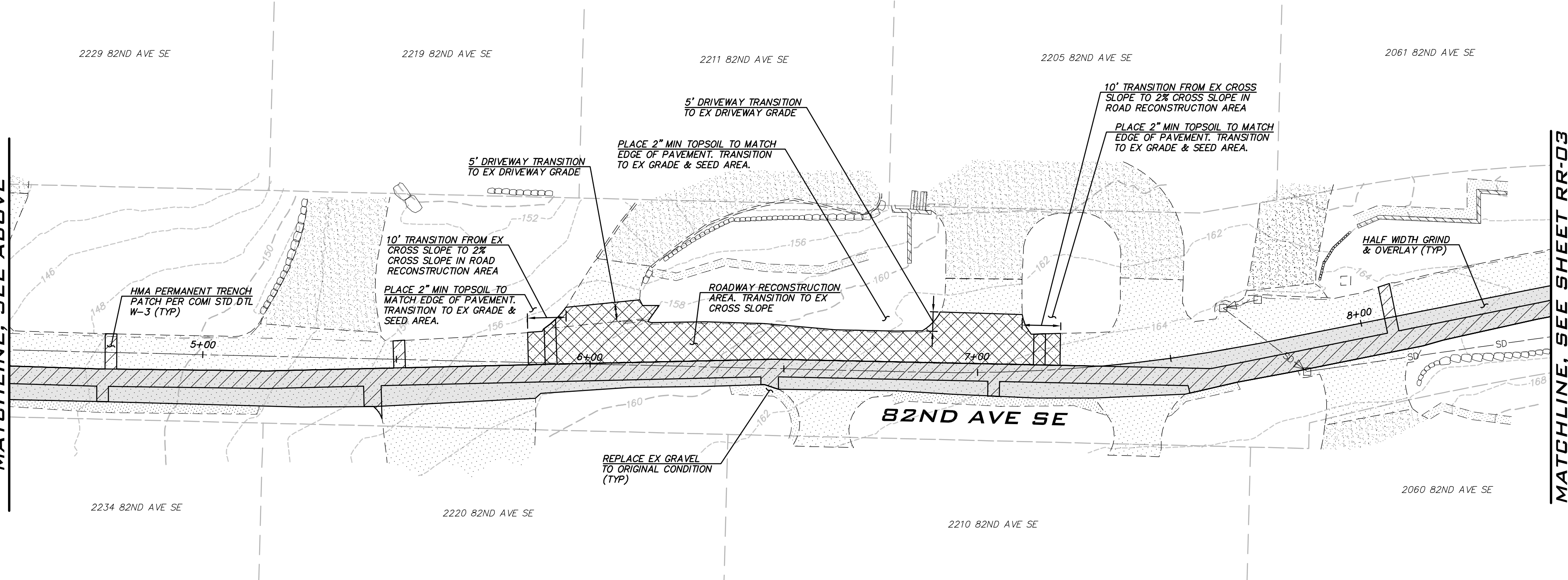
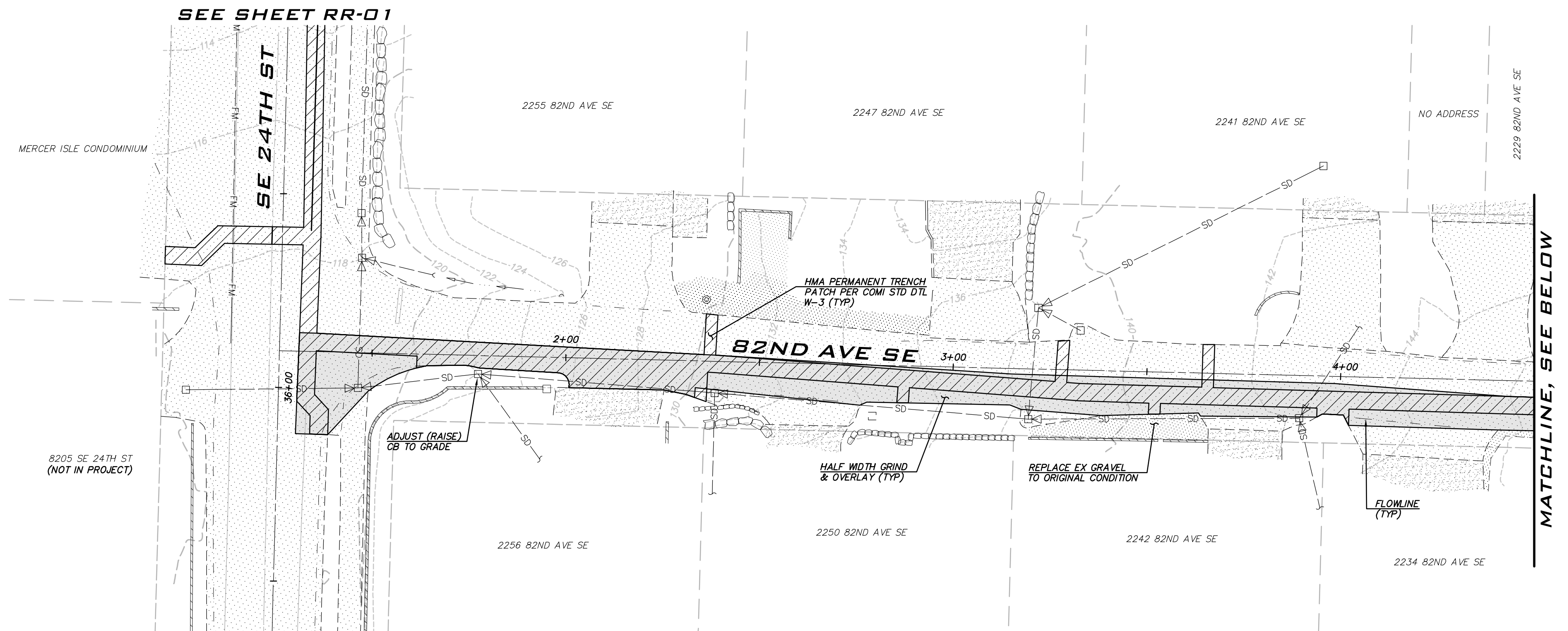
NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
82ND AVE SE
2021 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON



JOB NUMBER:
20-286
SHEET NAME:
RR-02
SHT **20** OF **26**



LEGEND

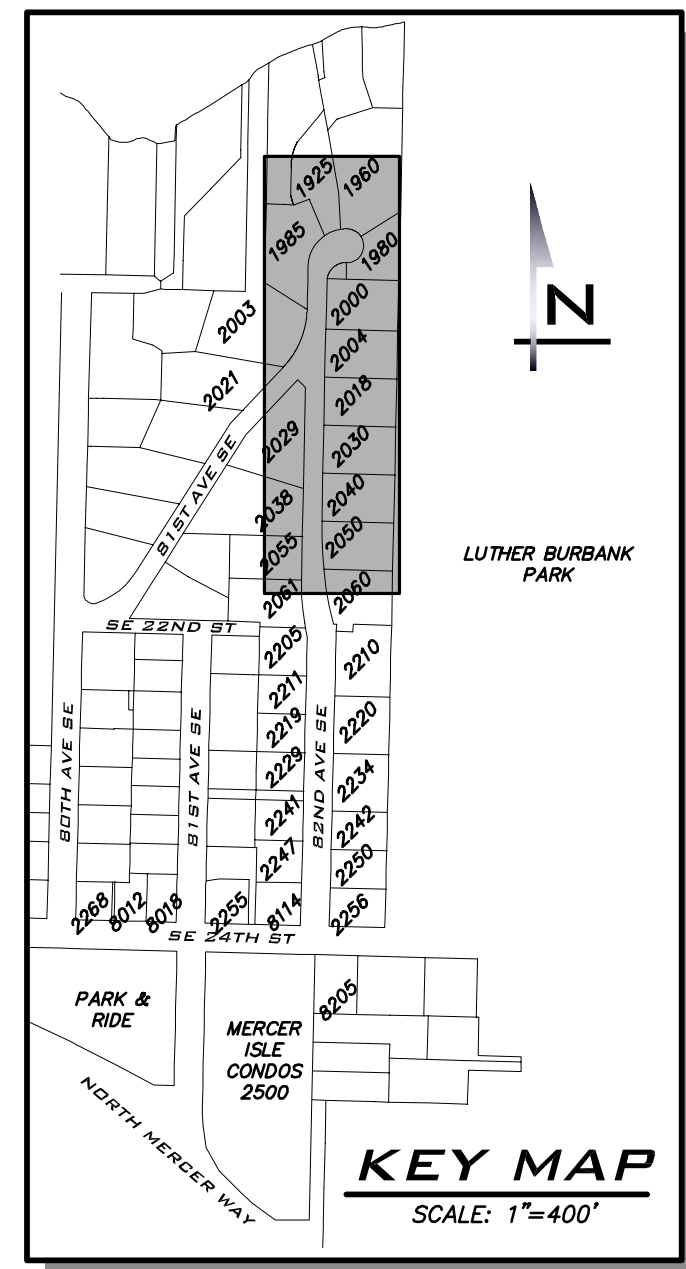
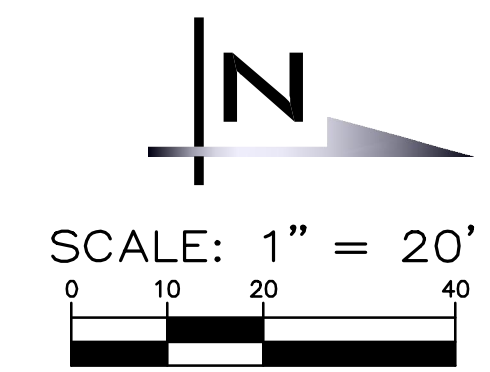
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- HALF WIDTH GRIND AND OVERLAY WITH 2" GRIND AND 2" OVERLAY
- ROADWAY RECONSTRUCTION AREA TO INCLUDE FULL DEPTH ASPHALT REMOVAL, PRELEVELING WITH CSTC, 4" MINIMUM COMPACTED HMA PLACED IN 2 LIFTS TO ACHIEVE 2% MINIMUM CROSS SLOPE.

NOTES

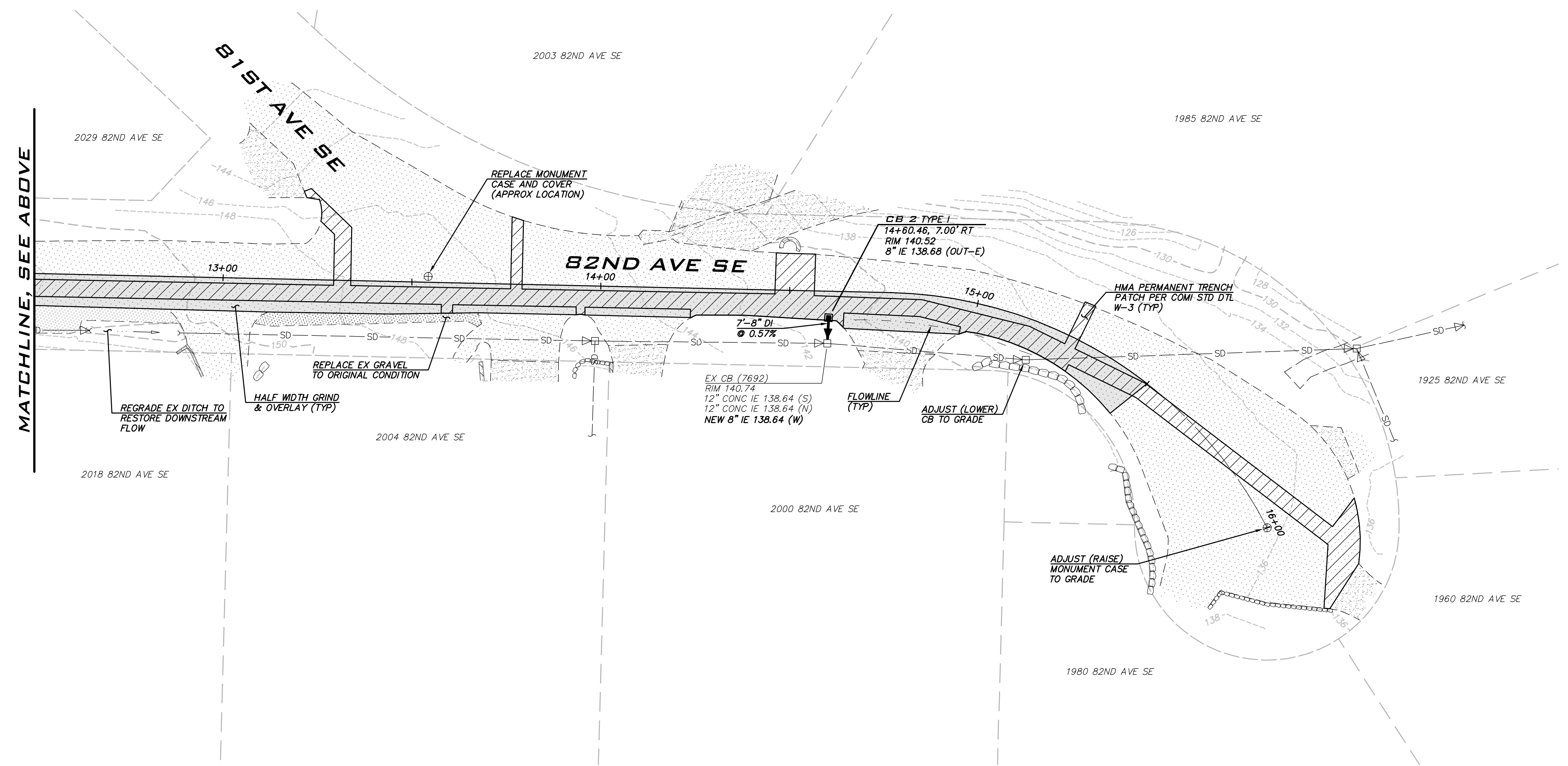
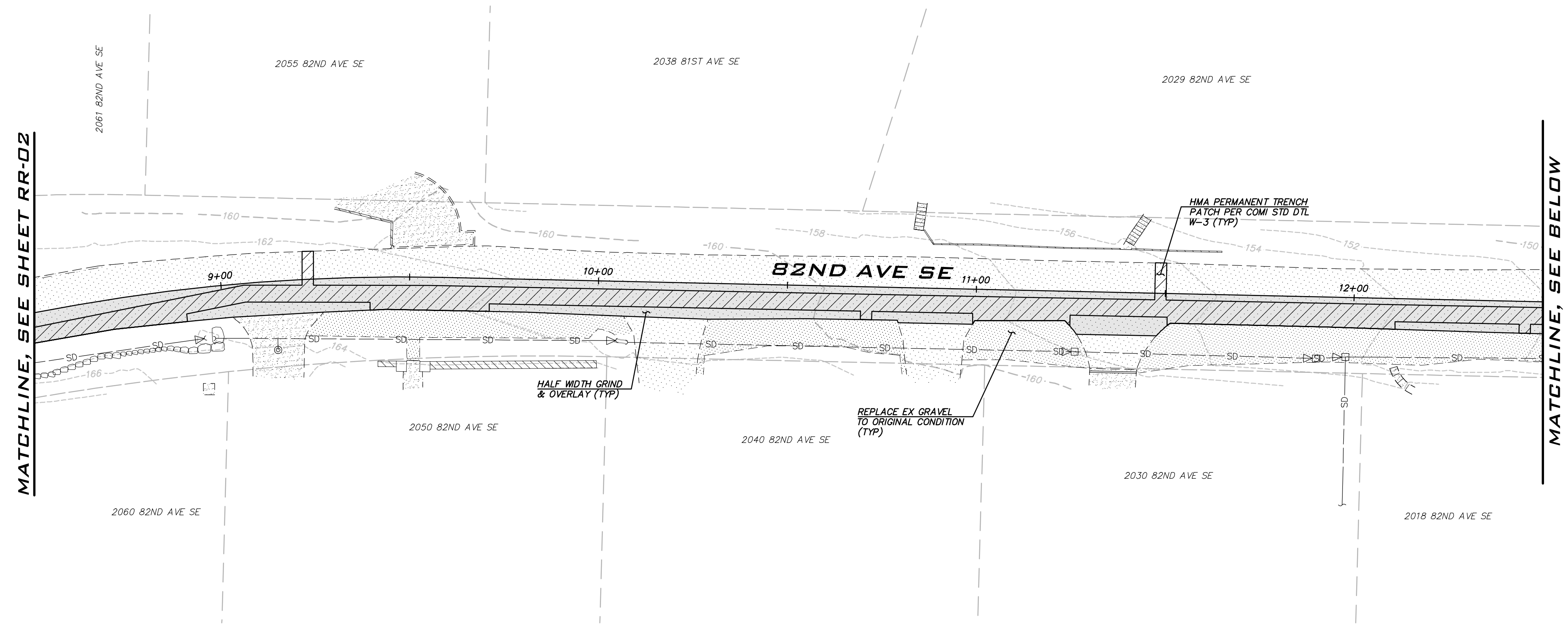
1. THE LOCATION OF THE PAVEMENT RESTORATION SHOWN IS APPROXIMATE ONLY AND THE EXACT LOCATION SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION INSPECTOR DURING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR BARRICADES & SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE AUTOMOBILES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.

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.



SCALE: AS NOTED
 PROJECT MANAGER: DEANNA L. MARTIN, PE
 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
 ISSUE DATE: 2/23/2021



LEGEND

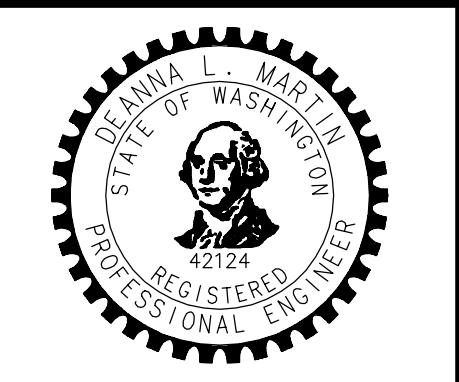
	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	HALF WIDTH GRIND AND OVERLAY WITH 2" GRIND AND 2" OVERLAY
	ROADWAY RECONSTRUCTION AREA TO INCLUDE FULL DEPTH ASPHALT REMOVAL, PRELEVELING WITH CSTC, 4" MINIMUM COMPACTED HMA PLACED IN 2 LIFTS TO ACHIEVE 2% MINIMUM CROSS SLOPE.

- 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 & SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE AUTOMOBILES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.

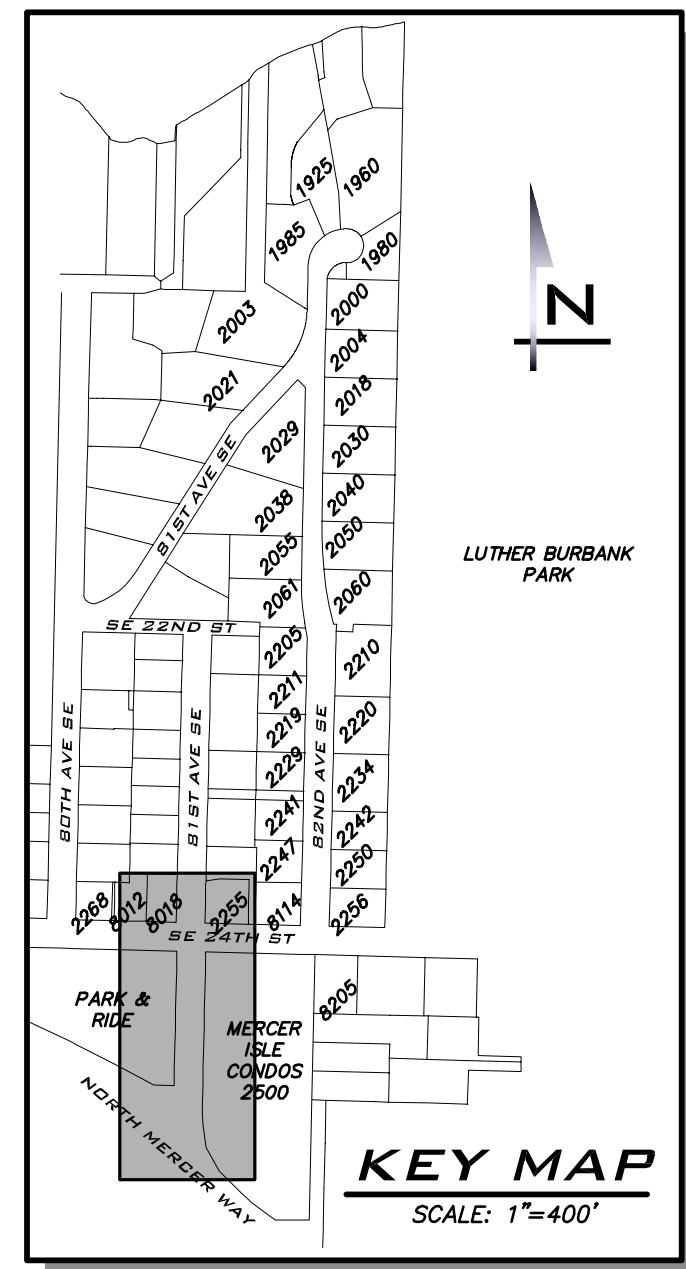
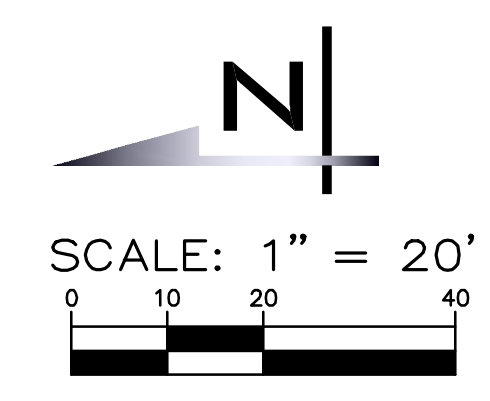
EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO 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.

NO	DATE	BY	REVISIONS

ROAD RESTORATION PLAN - 82ND AVE SE
 2021 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



JOB NUMBER: 20-286
 SHEET NAME: RR-03
 SHT 21 OF 26



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

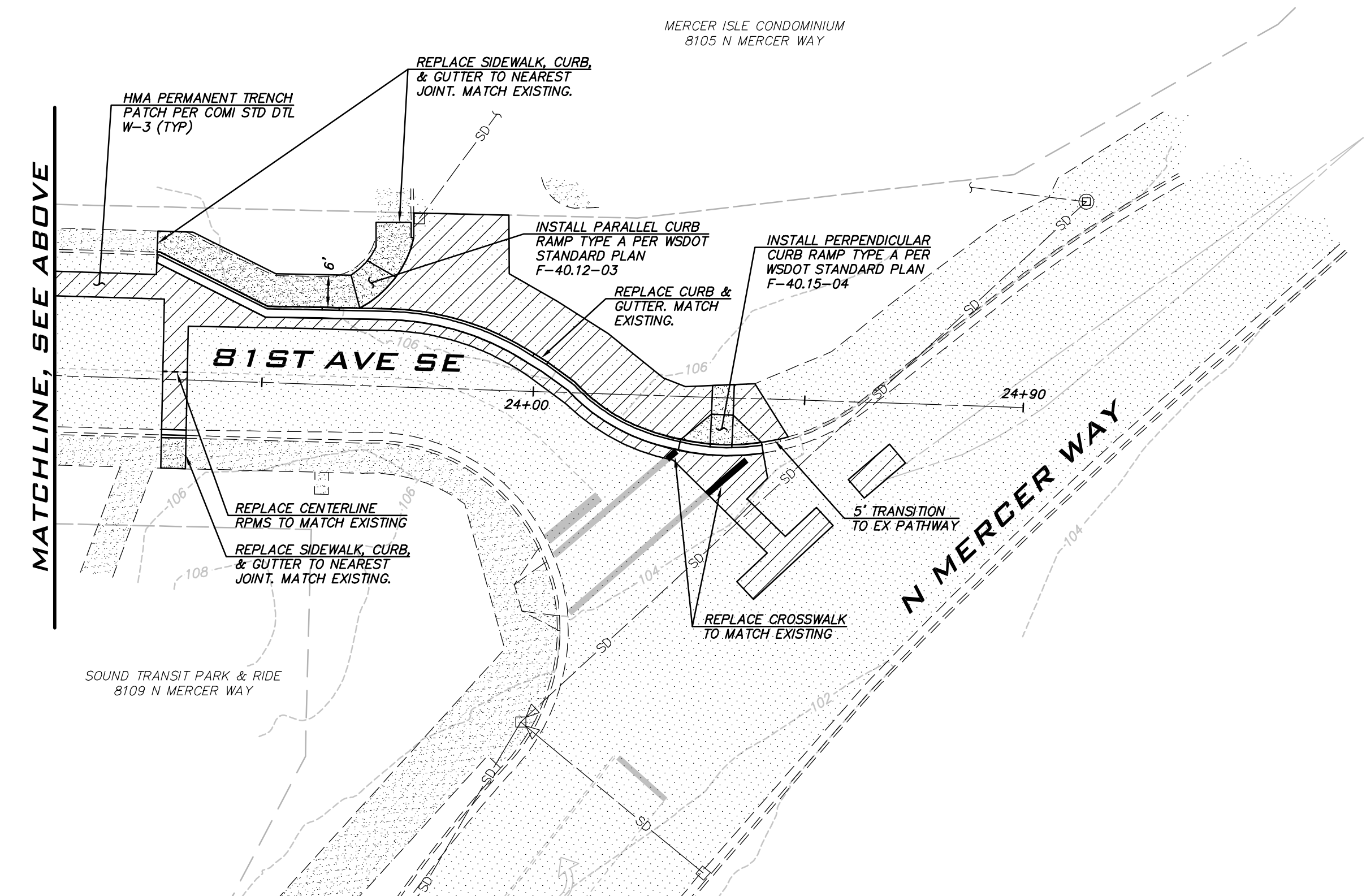
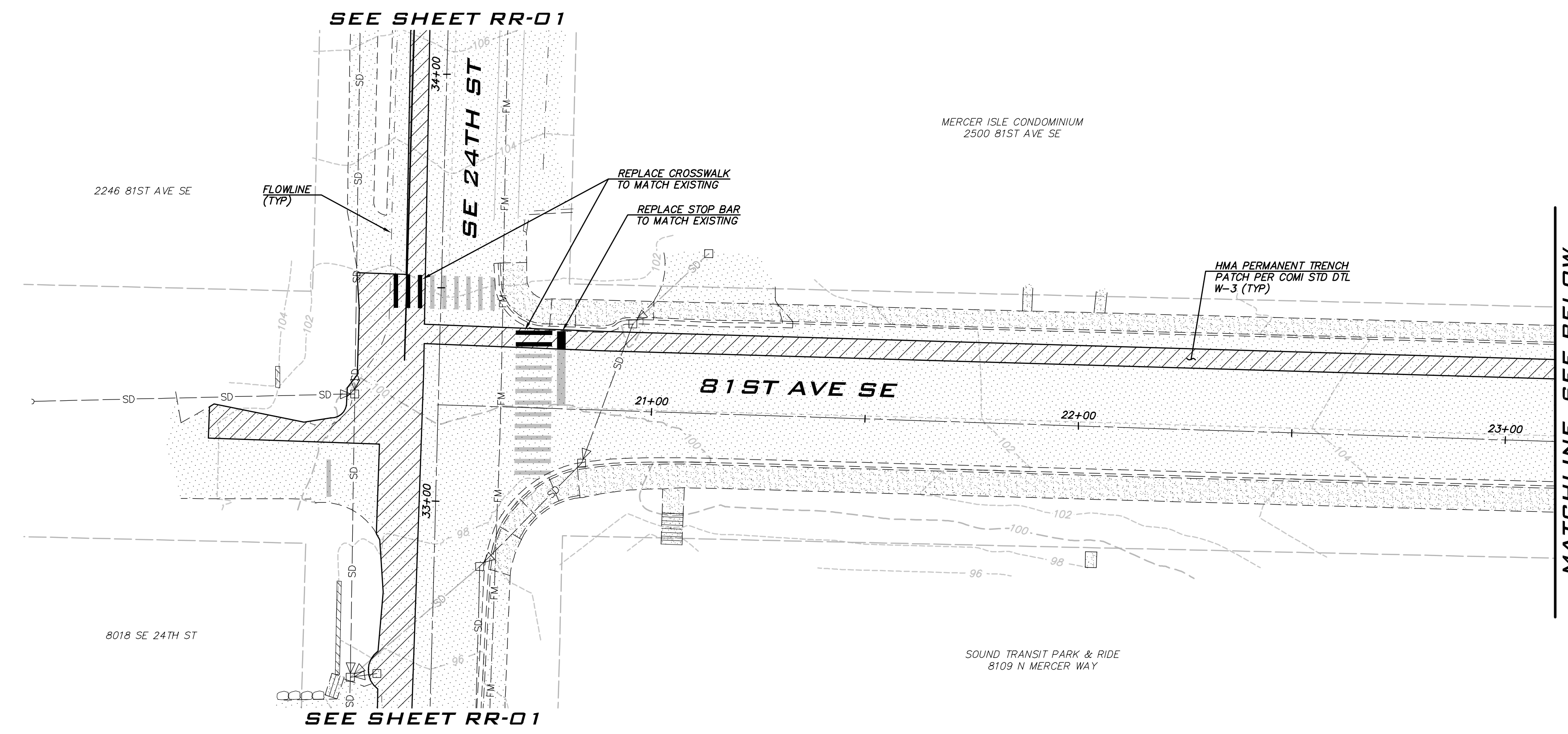
SCALE:
AS NOTED

PROJECT MANAGER:
DEANNA L. MARTIN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
2/23/2021



LEGEND

[Hatched pattern]	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
[Solid gray]	HALF WIDTH GRIND AND OVERLAY WITH 2" GRIND AND 2" OVERLAY
[Cross-hatched pattern]	ROADWAY RECONSTRUCTION AREA TO INCLUDE FULL DEPTH ASPHALT REMOVAL, PRELEVELING WITH CSTC, 4" MINIMUM COMPACTED HMA PLACED IN 2 LIFTS TO ACHIEVE 2% MINIMUM CROSS SLOPE.

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 & SIGNS OR OTHER NOTIFICATIONS AS APPROPRIATE IN ORDER TO ENSURE THAT RESIDENTS REMOVE AUTOMOBILES OR OTHER OBSTRUCTIONS FROM THE ROAD PRIOR TO PAVEMENT RESTORATION.

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.

NO.	DATE	BY	REVISIONS

ROAD RESTORATION PLAN -
81ST AVE SE

2021 WATER SYSTEM
IMPROVEMENTS PROJECT

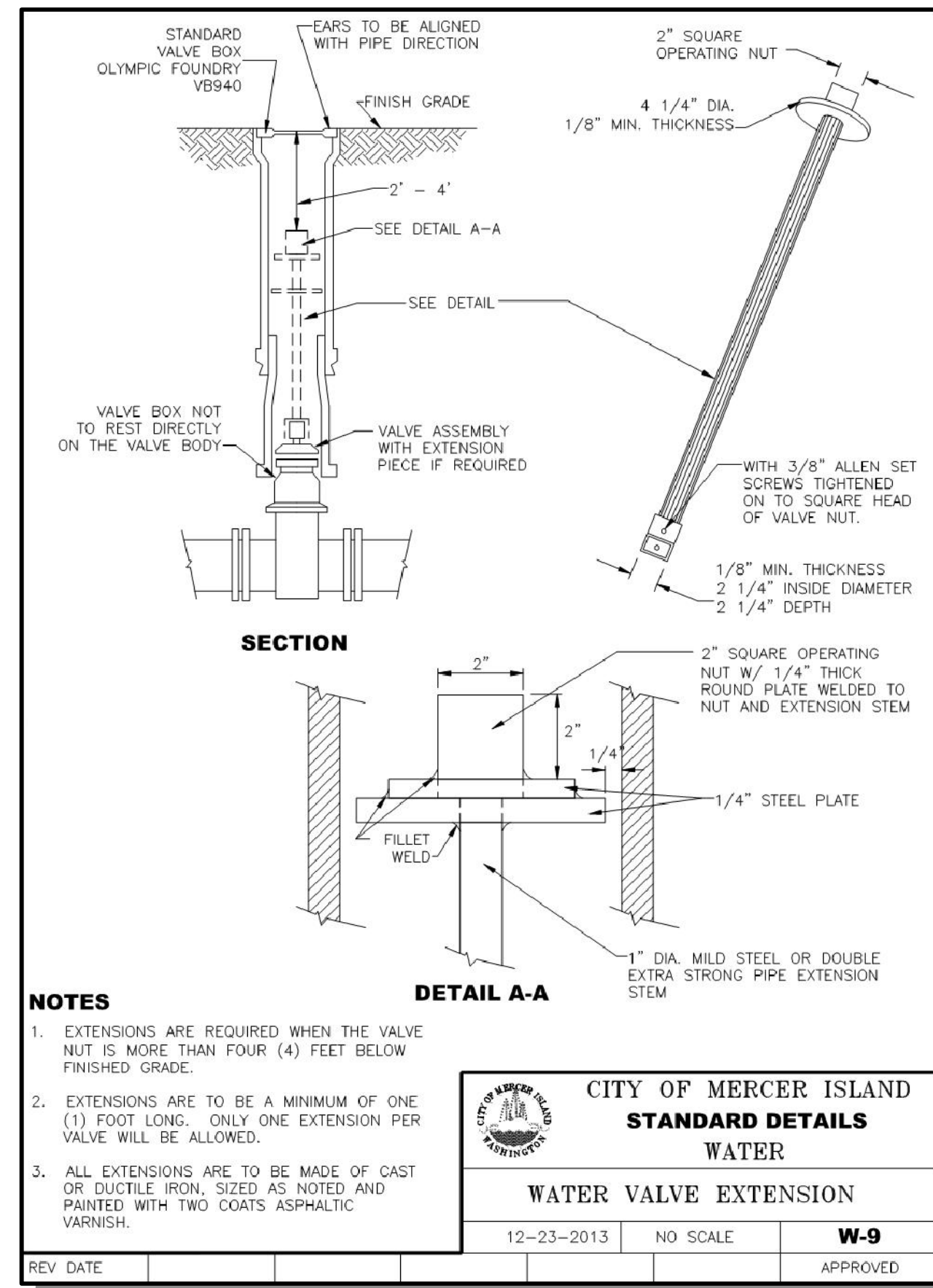
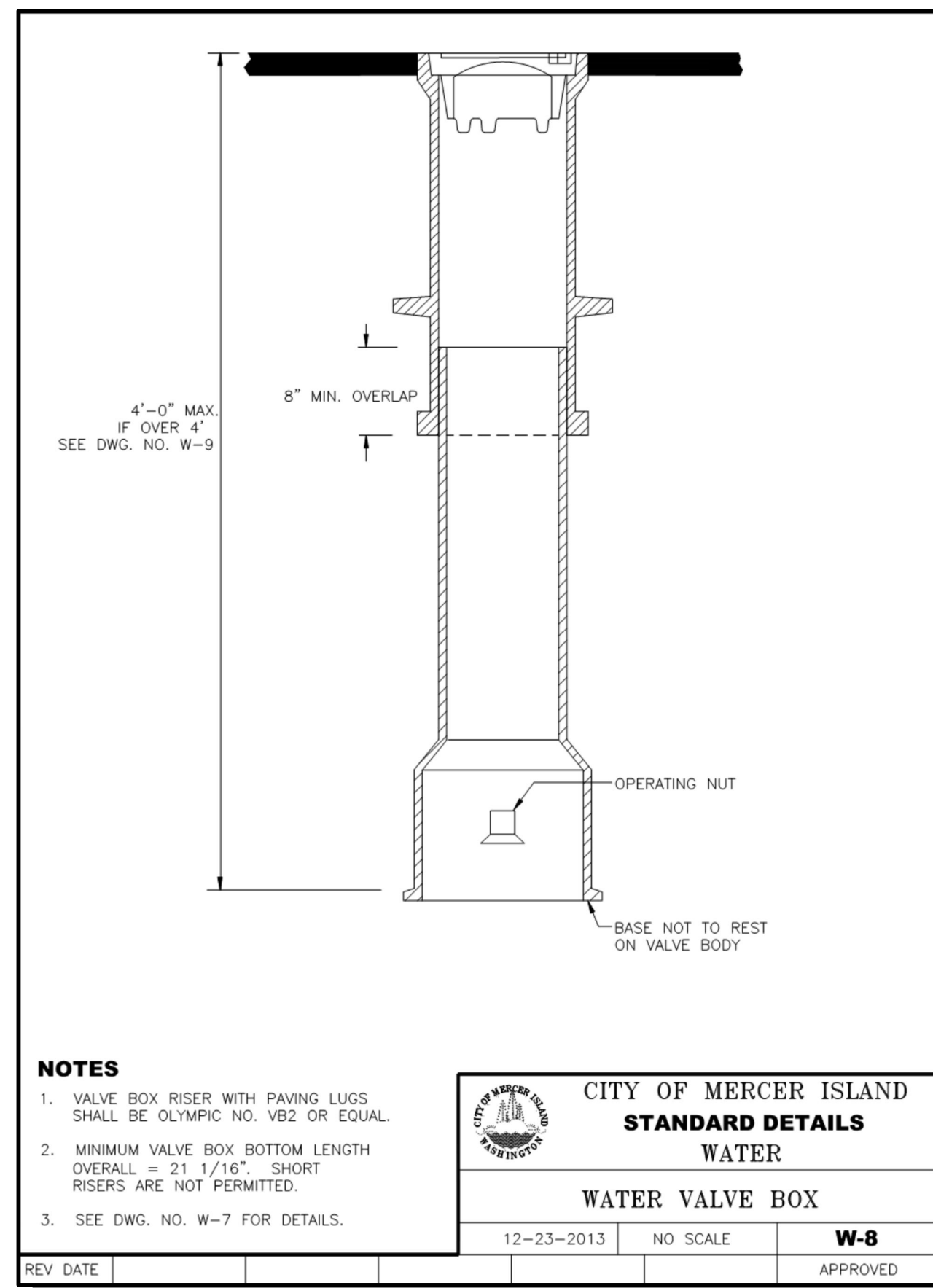
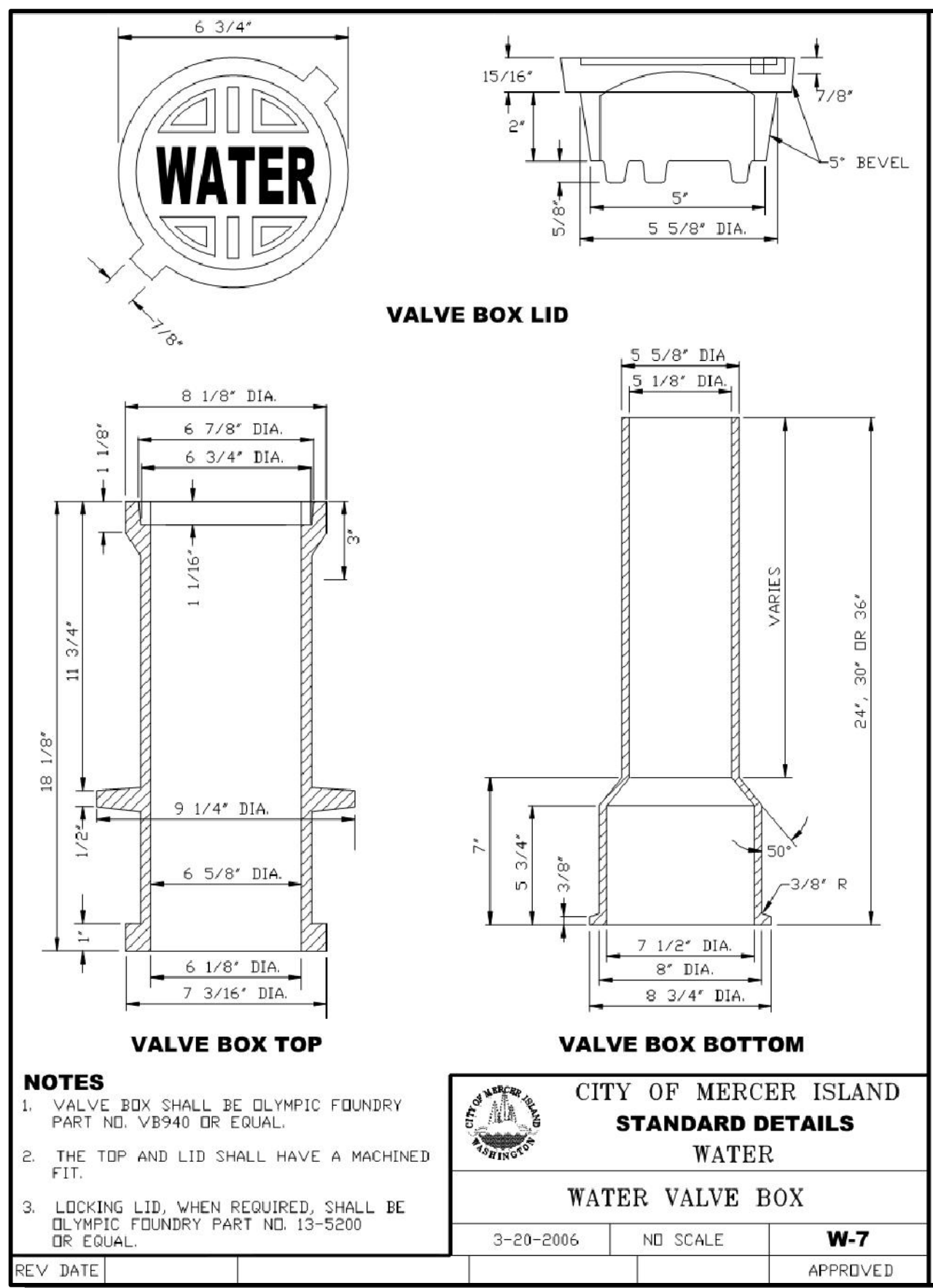
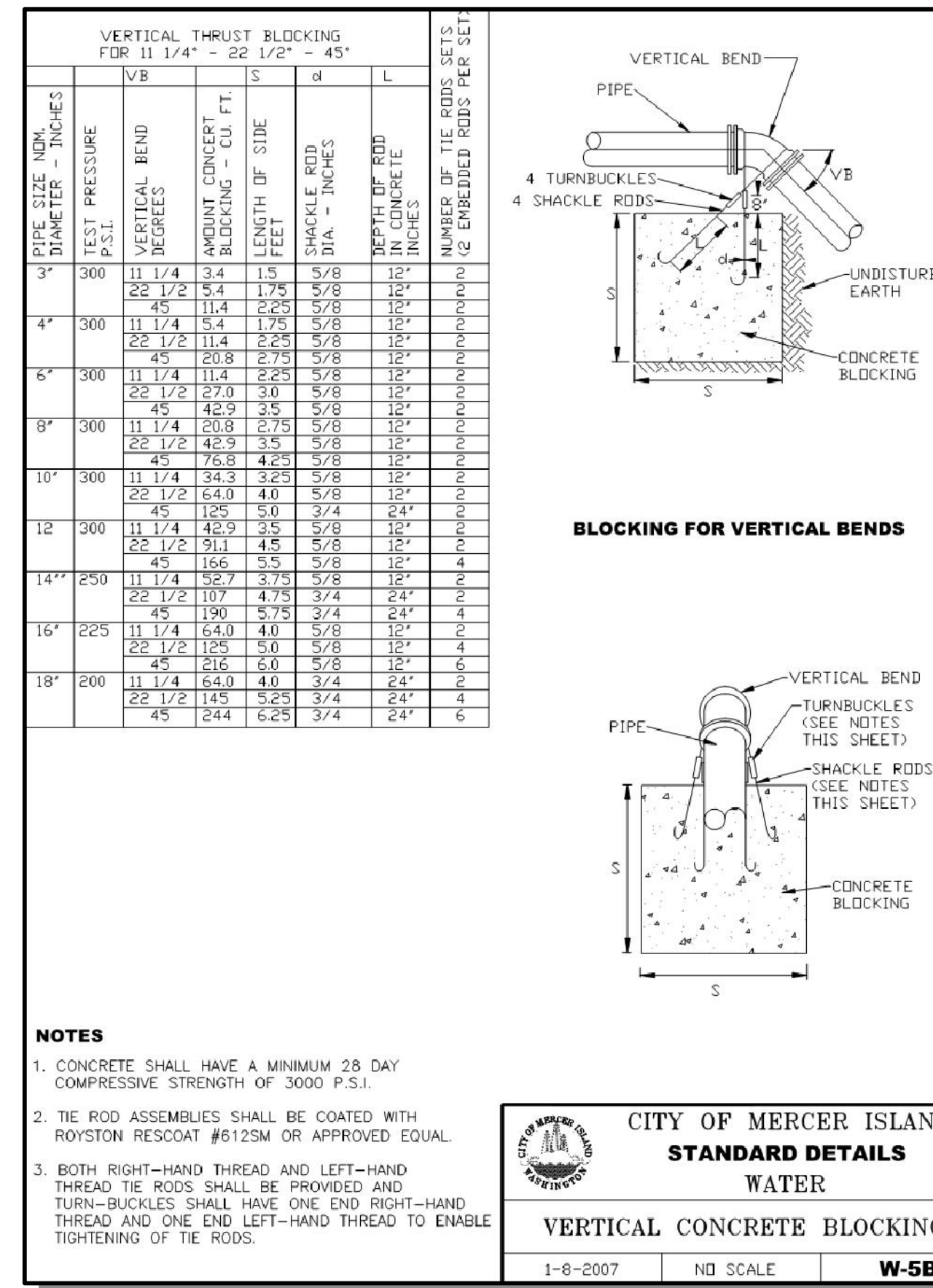
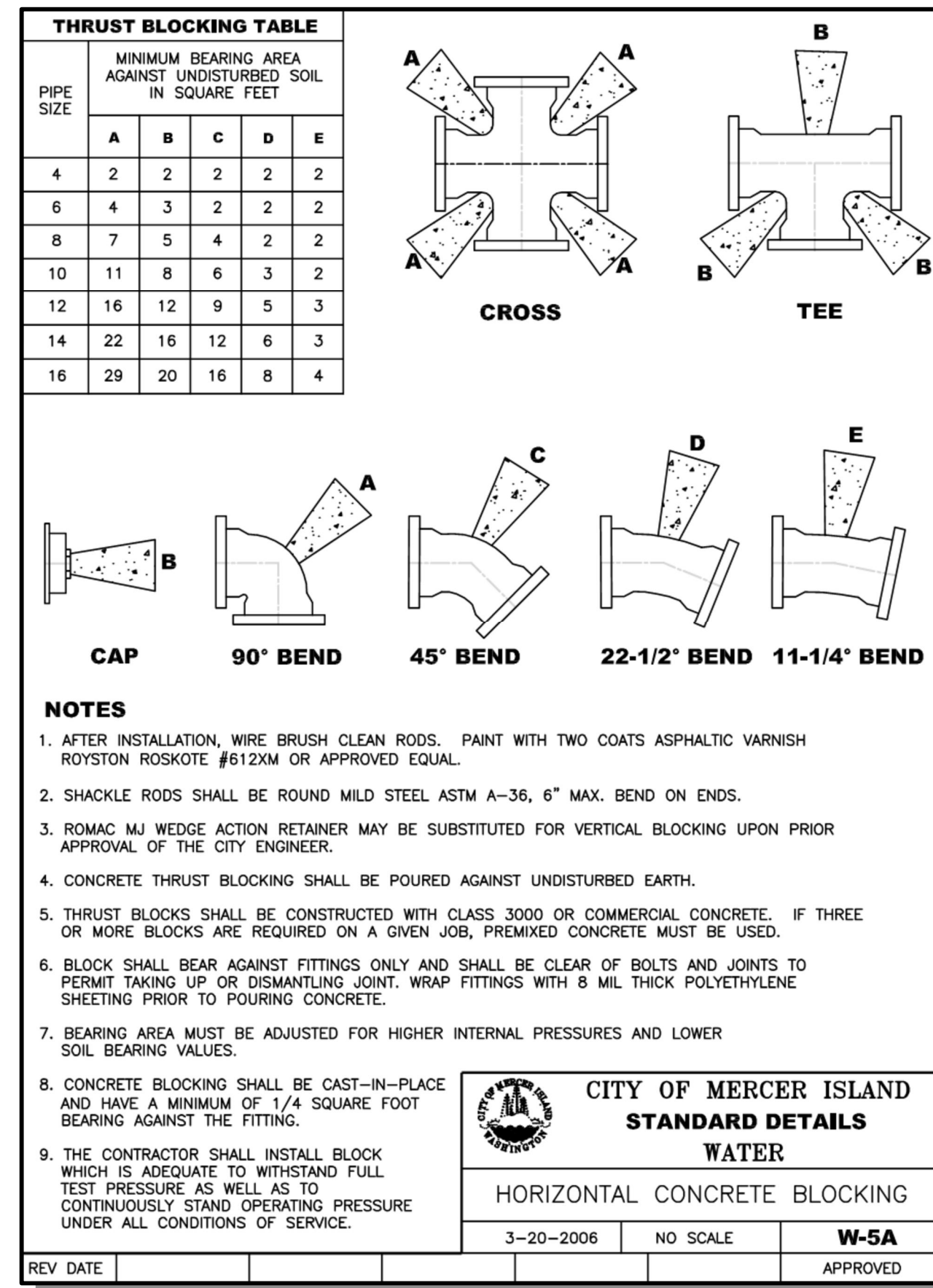
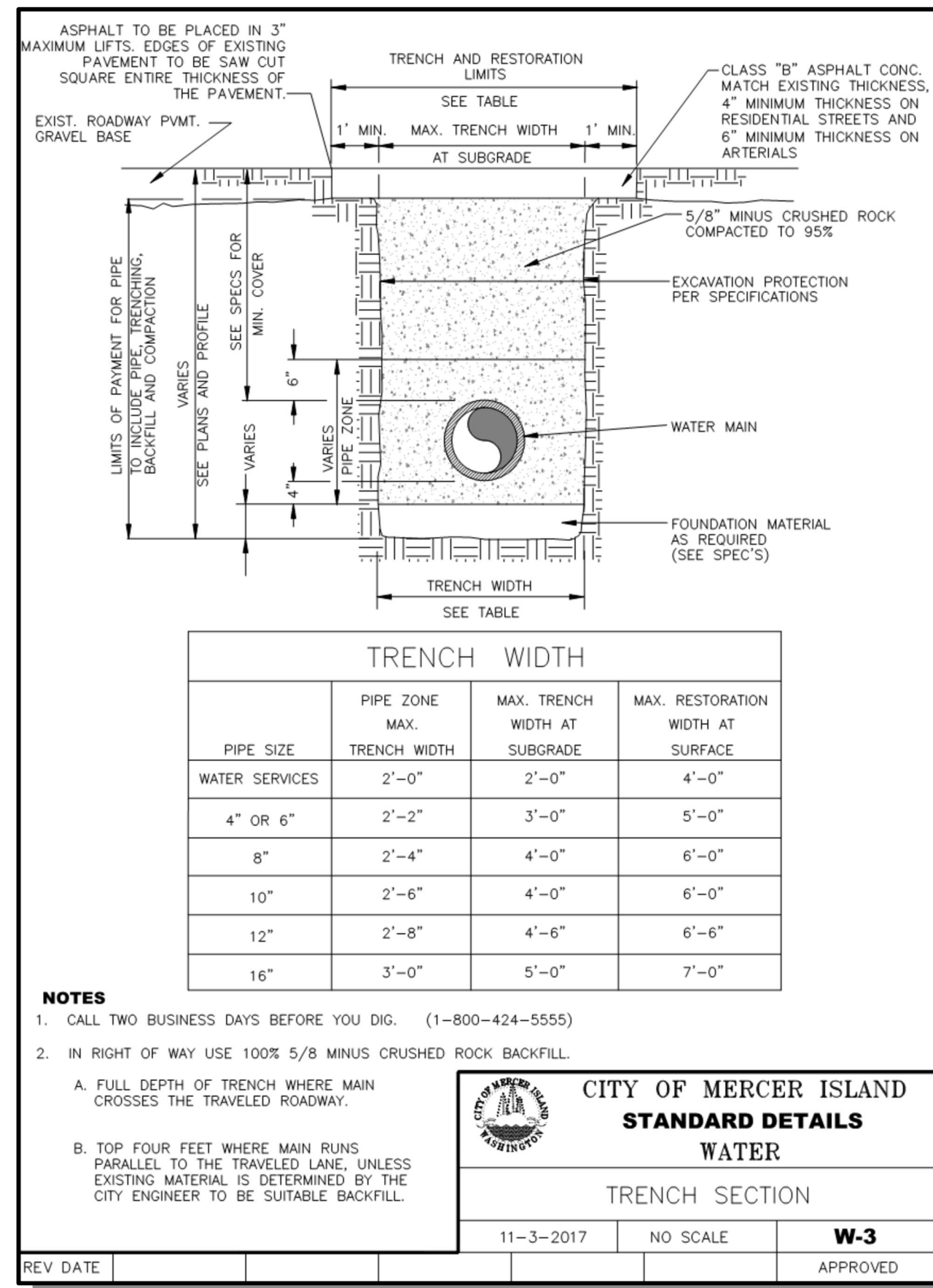
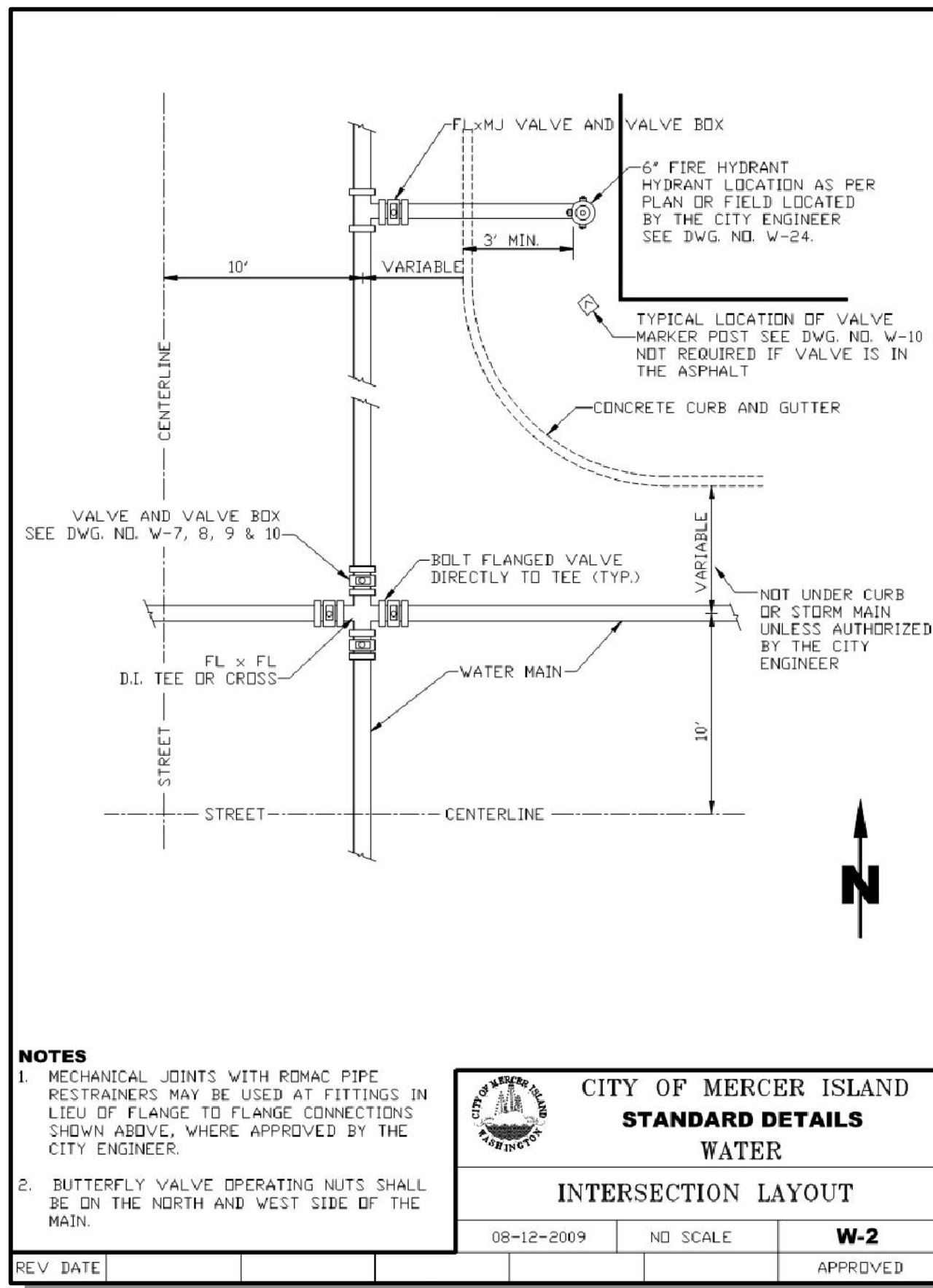
CITY OF MERCER ISLAND WASHINGTON



JOB NUMBER:
20-286

SHEET NAME:
RR-04

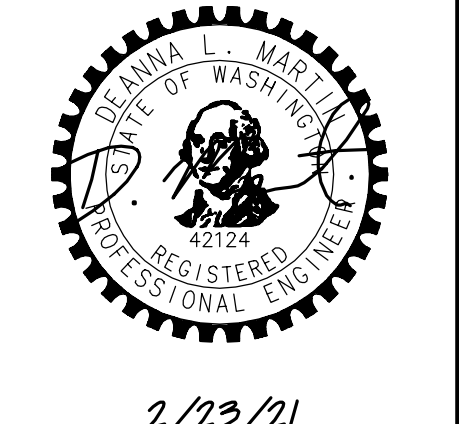
SHT **22** OF **26**



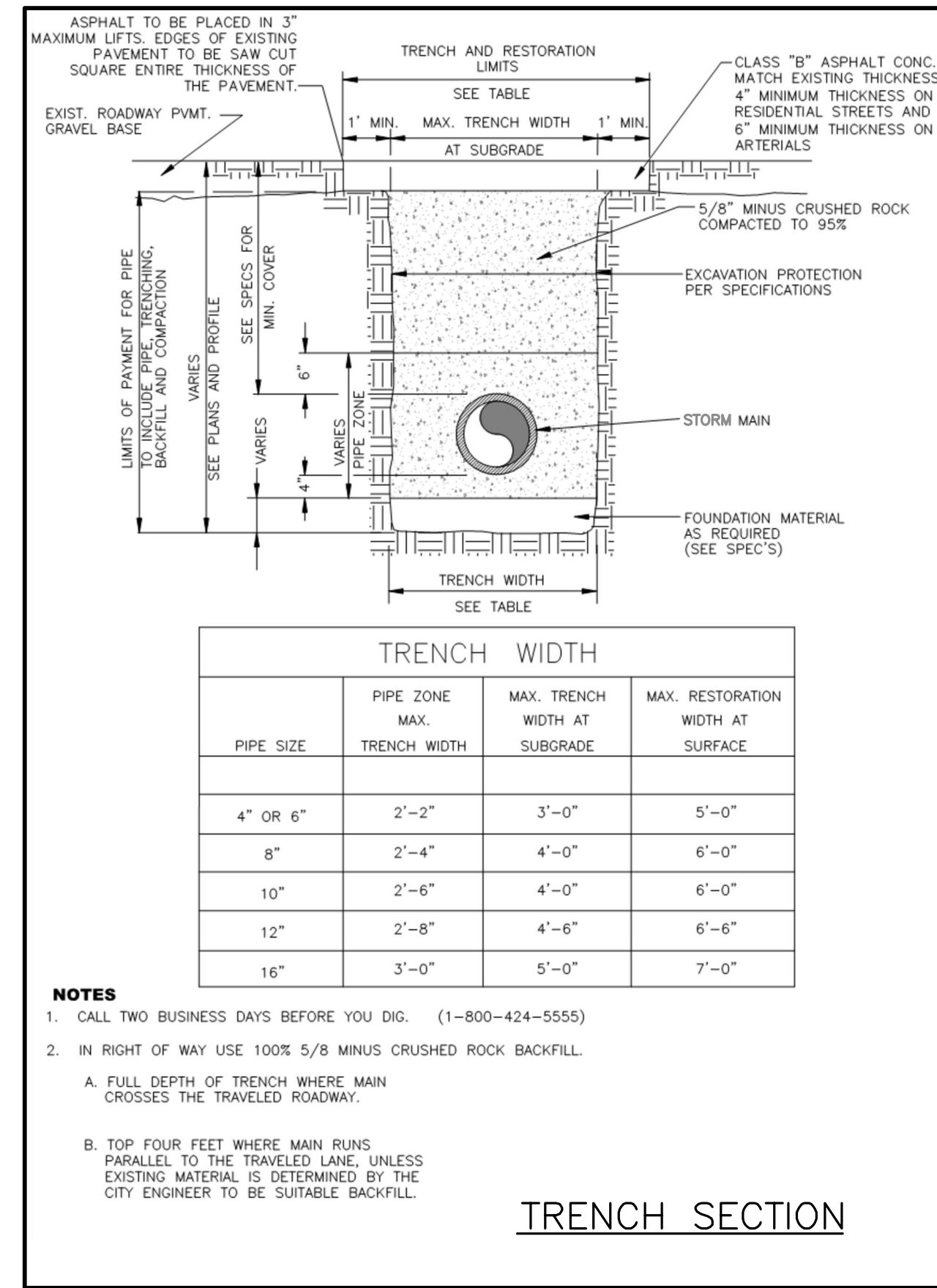
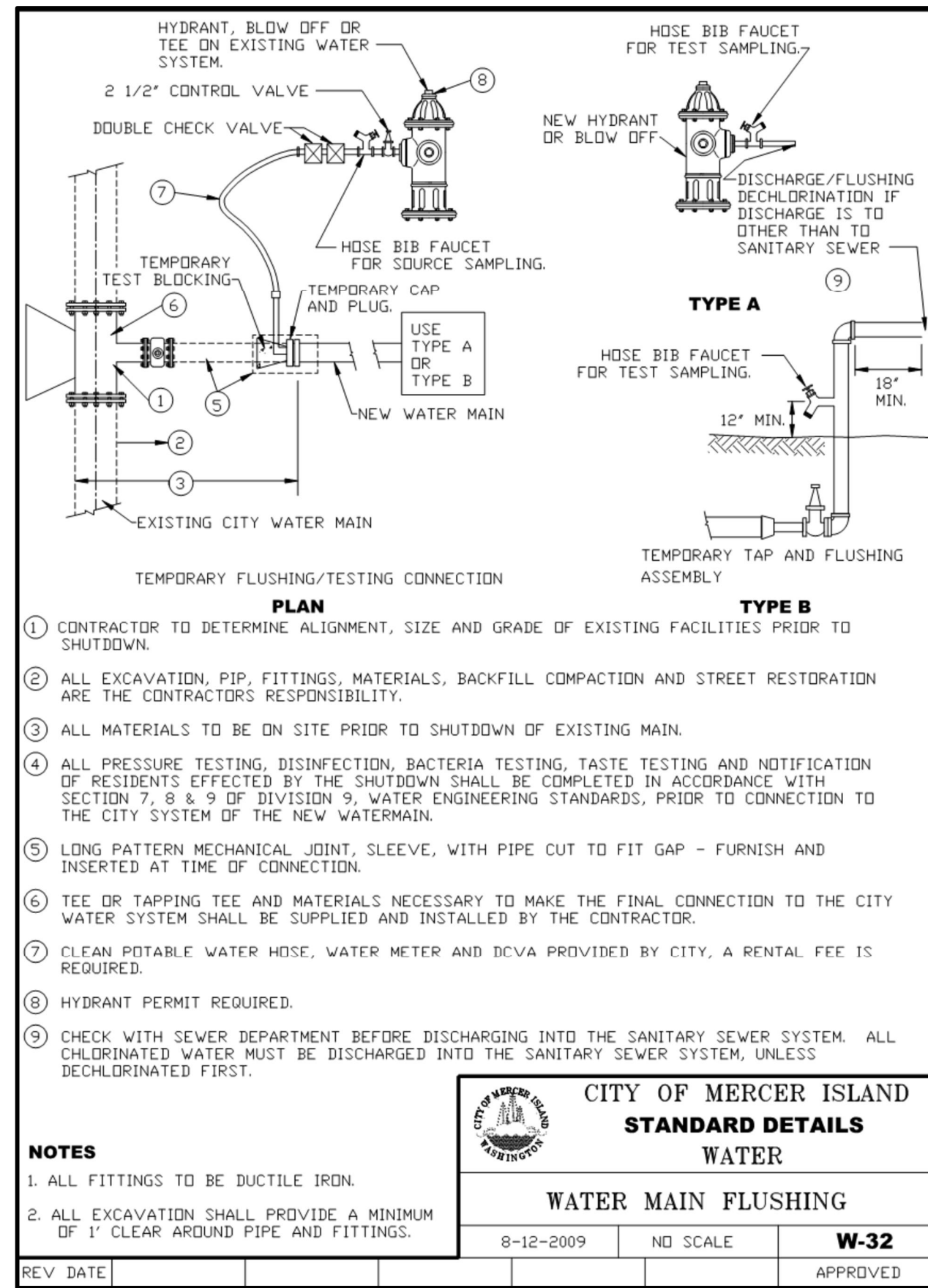
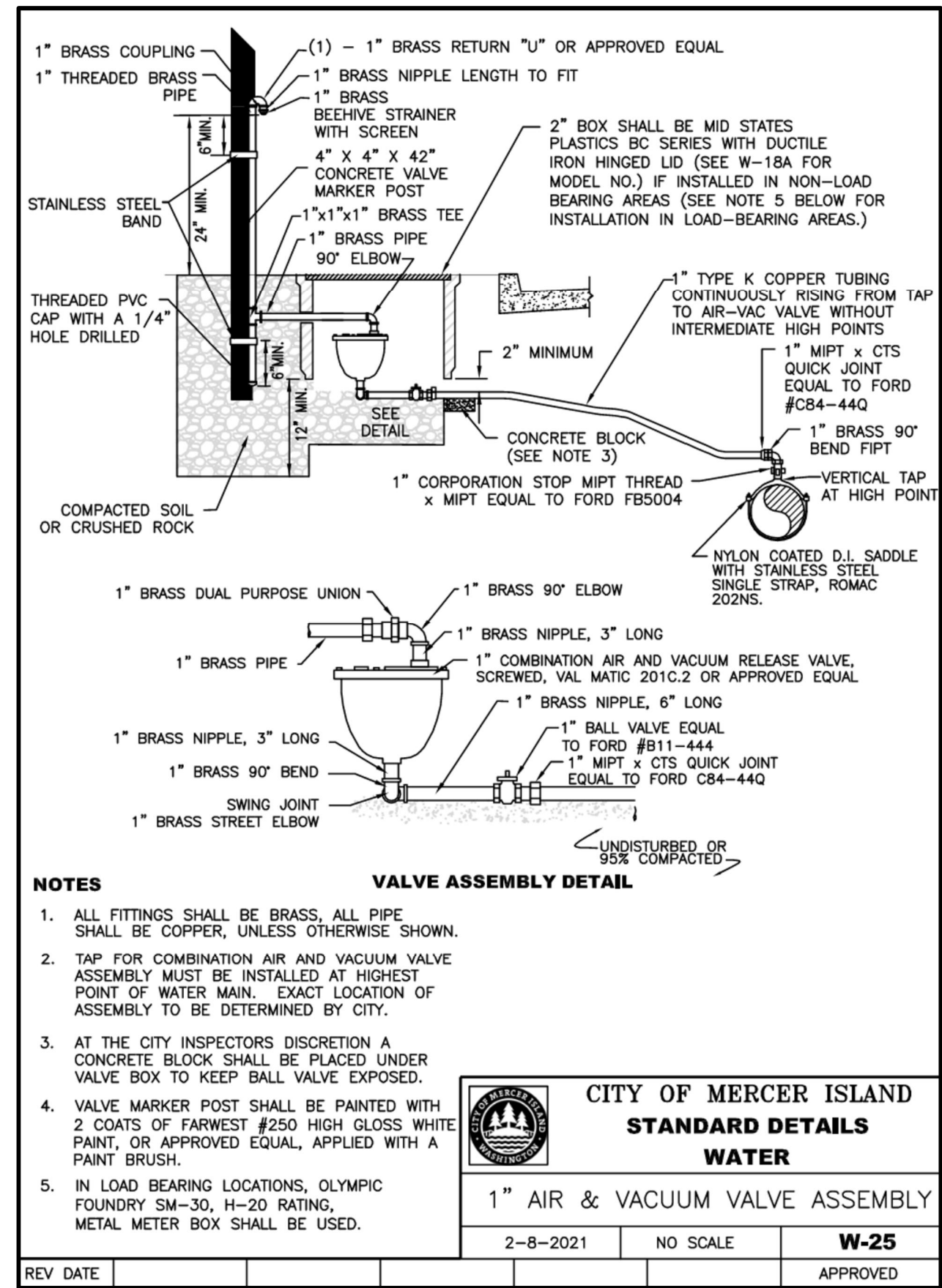
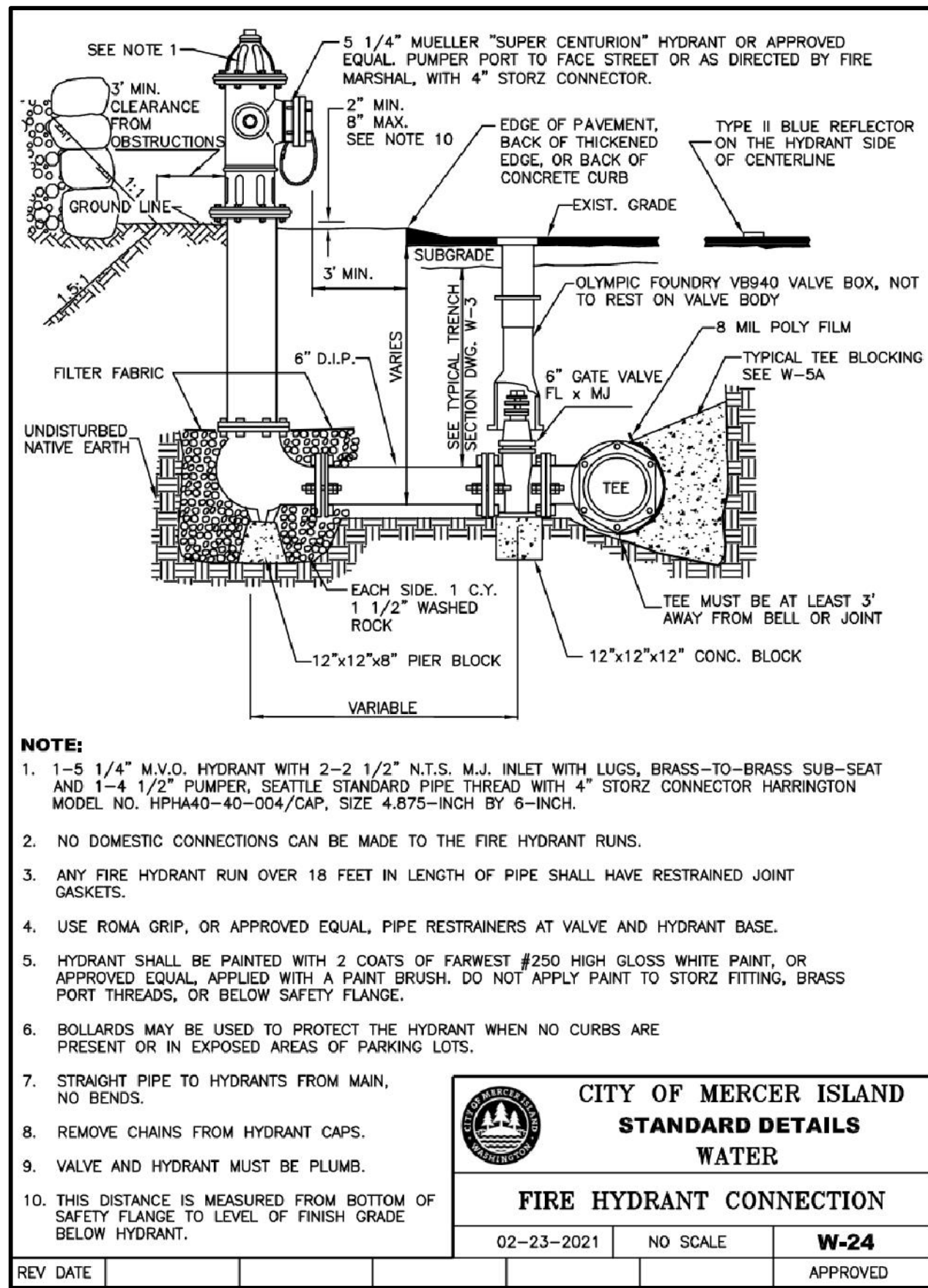
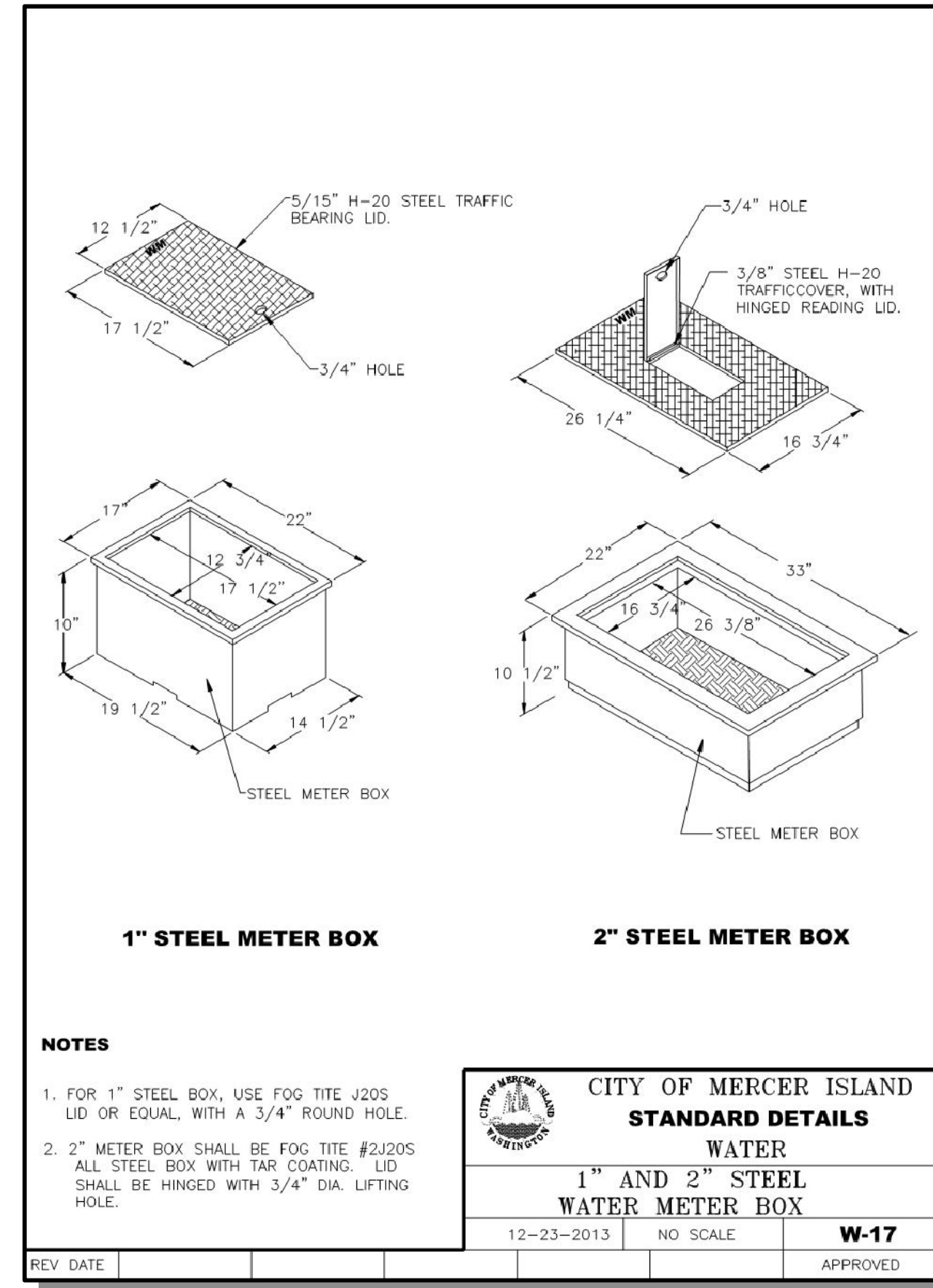
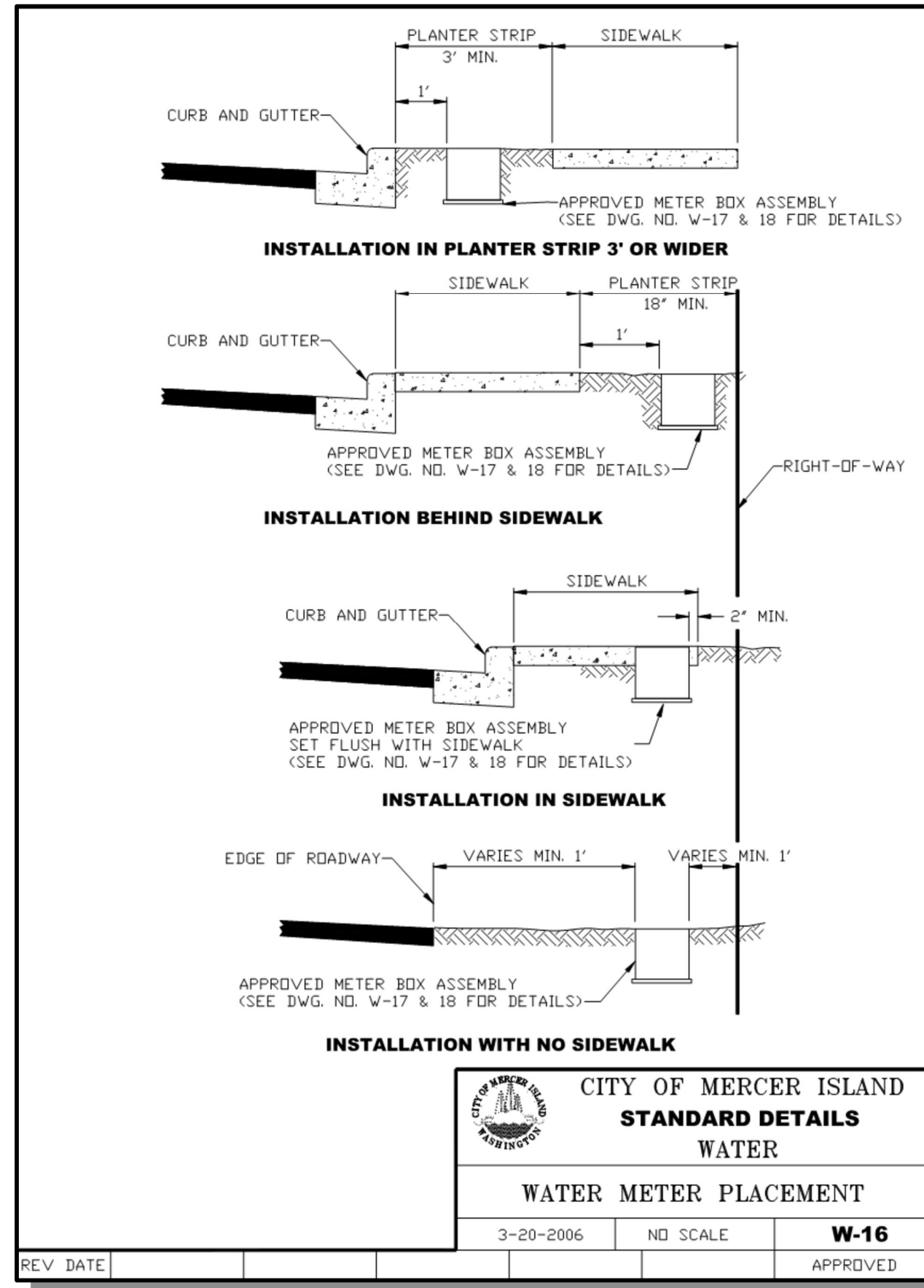
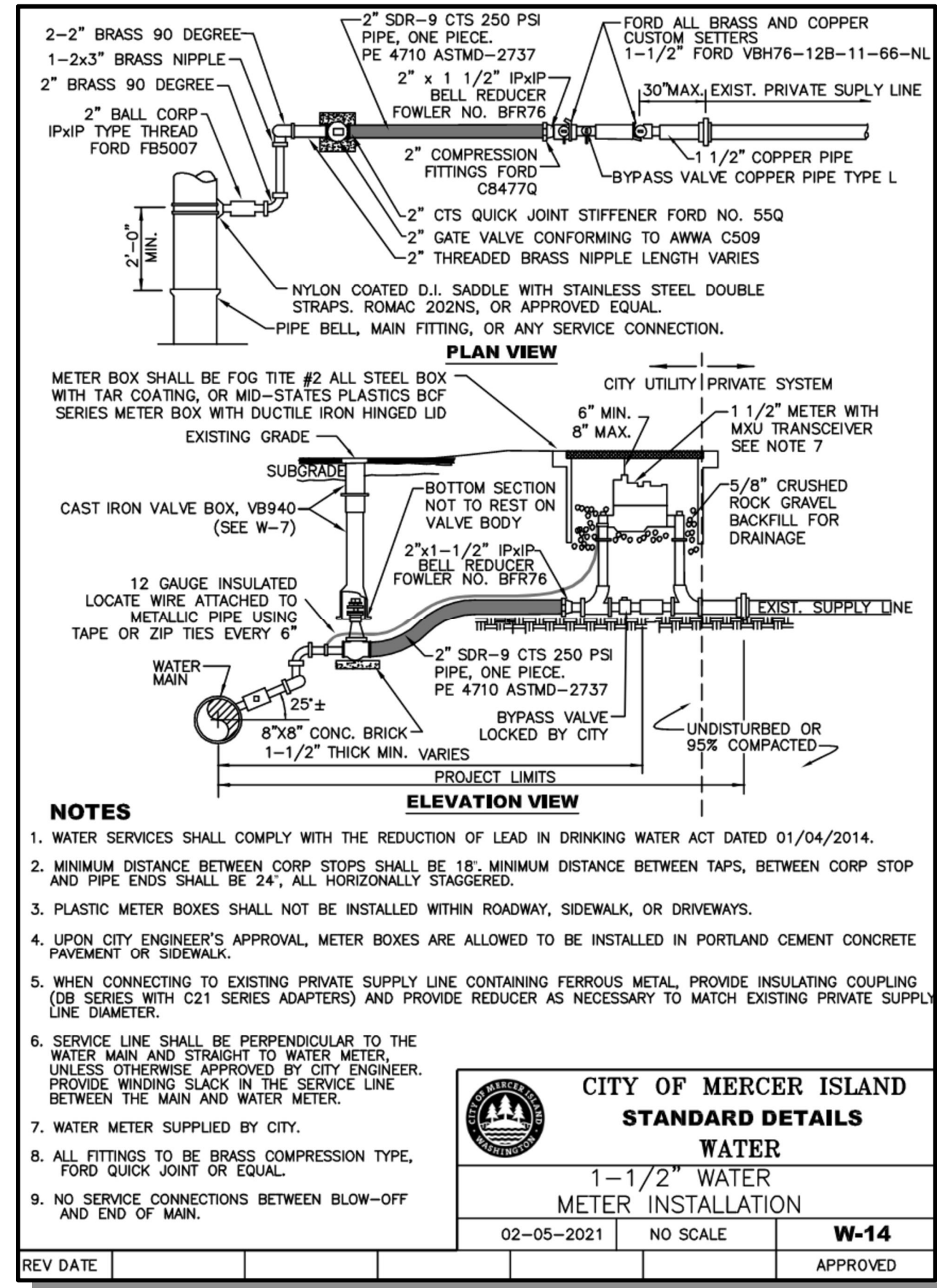
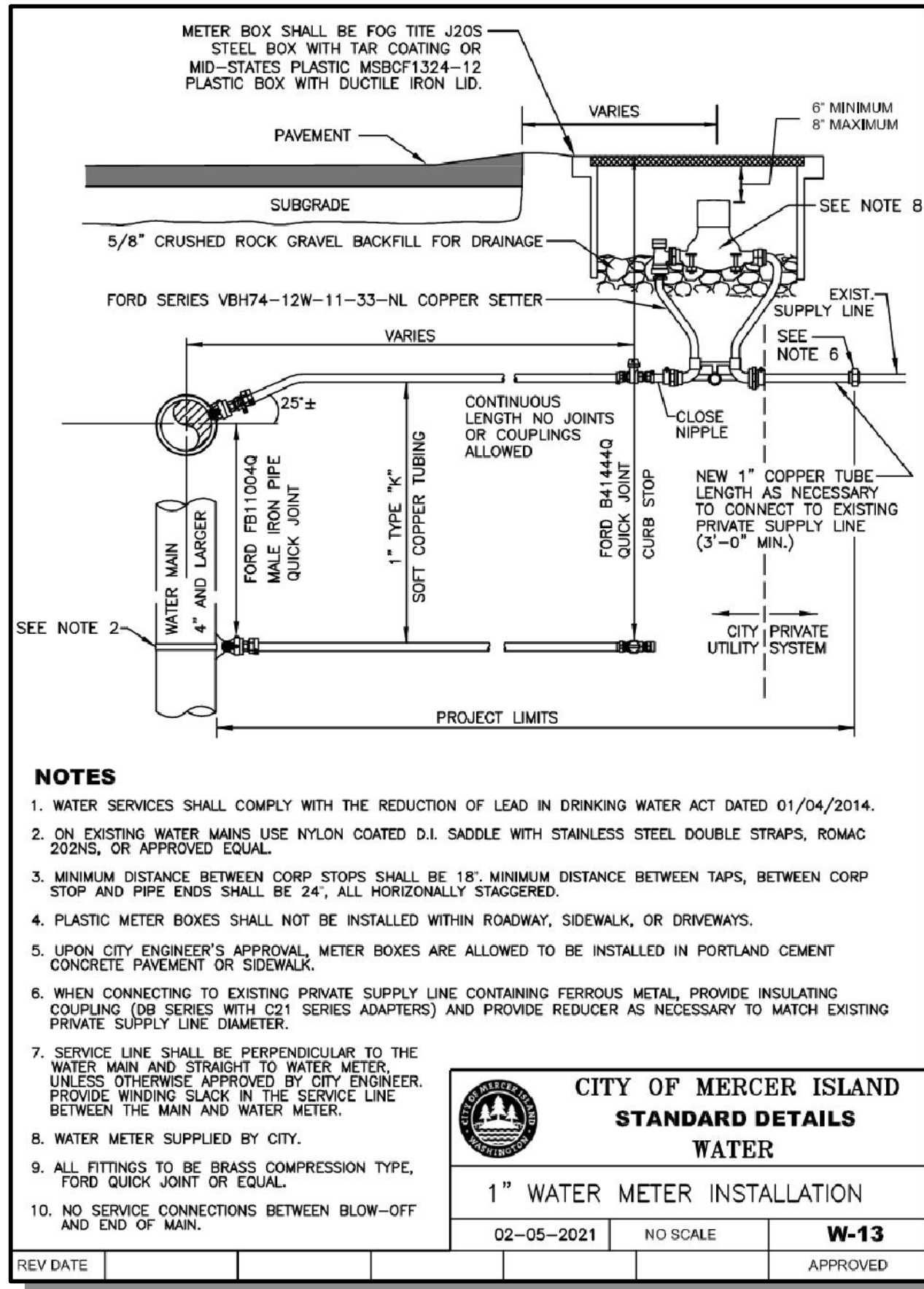
SCALE: AS NOTED
PROJECT MANAGER: DEANNA L. MARTIN, PE
PROJECT ENGINEER: GRACE GARWIN, EIT
DESIGNER: CAROL DOGGETT
ISSUE DATE: 2/23/2021

NO.	DATE	BY	REVISIONS

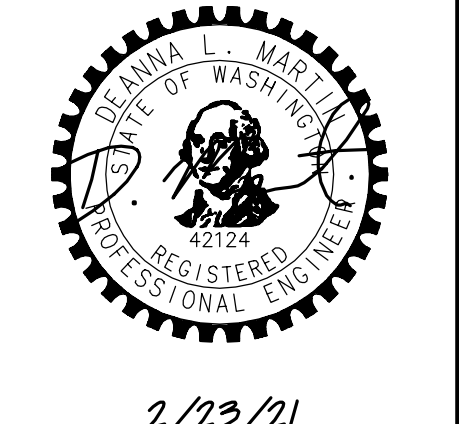
STANDARD WATER DETAILS
2021 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



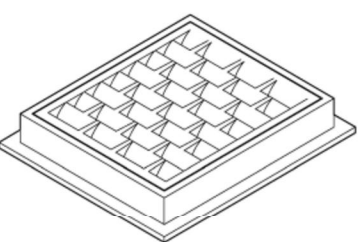
2/23/21
JOB NUMBER: 20-286
SHEET NAME: DT-01
SHT 23 OF 26



NO.	DATE	BY	REVISIONS



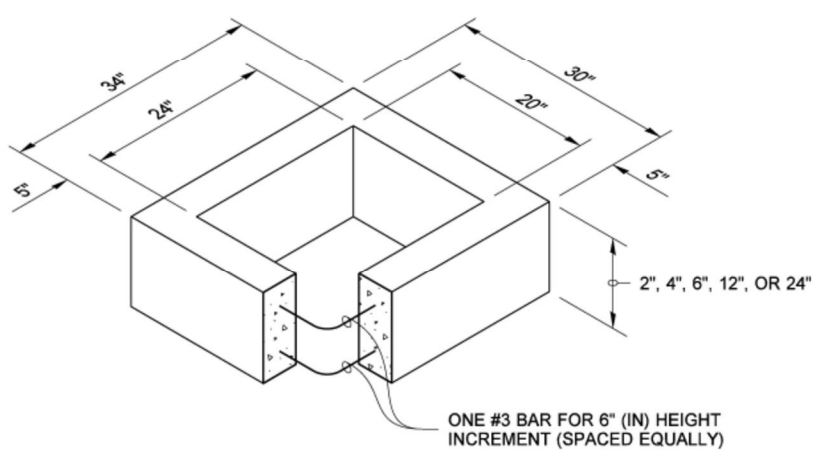
DRAWN BY: FERN LIDDELL



FRAME AND VANED GRATE

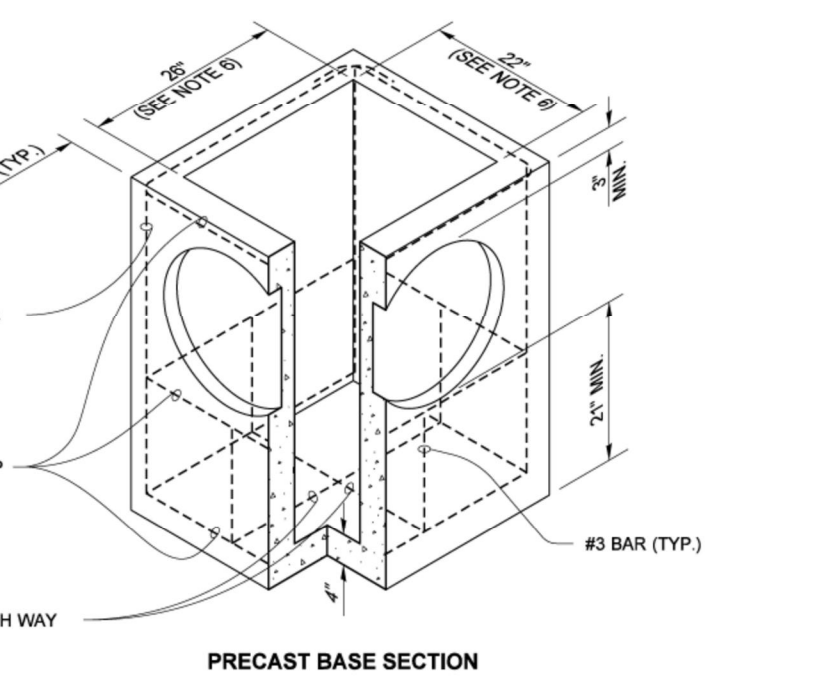
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CRISP* (STD. SPEC. SECT. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE

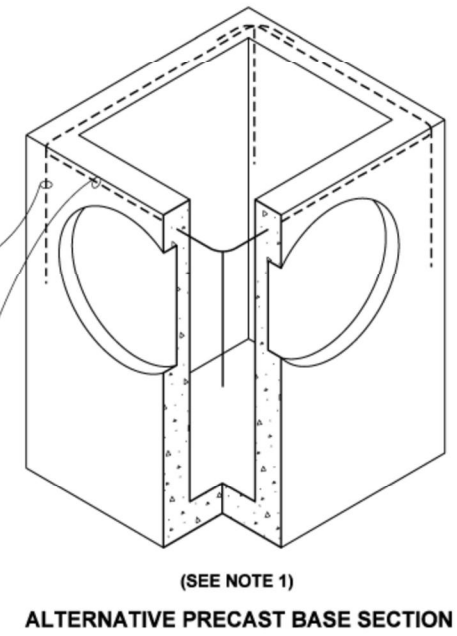


RECTANGULAR ADJUSTMENT SECTION

ONE #3 BAR FOR 6" (IN) HEIGHT INCREMENT (SPACED EQUALLY)




PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

NOTES:

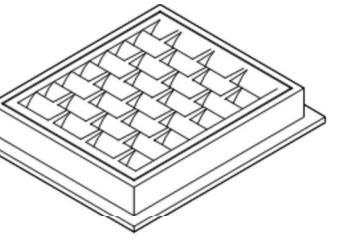
- As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.



CATCH BASIN TYPE 1
STANDARD PLAN B-5.20-03
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Roark, Steve
STATE DESIGN ENGINEER
Washington State Department of Transportation

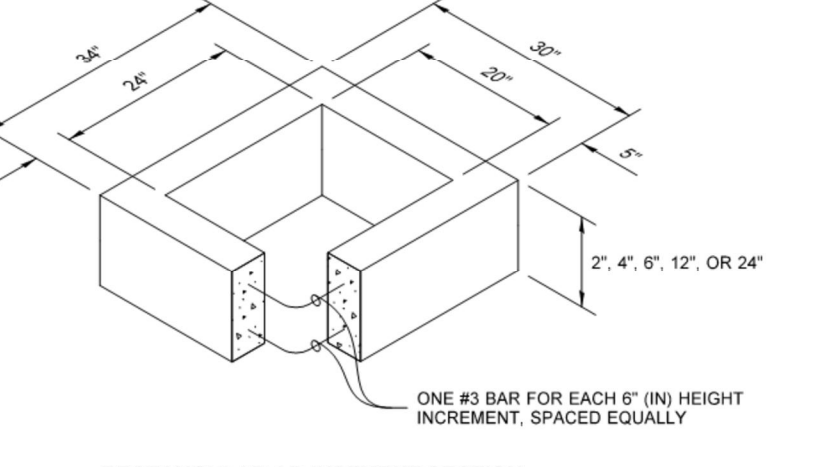
DRAWN BY: USA CYFORO



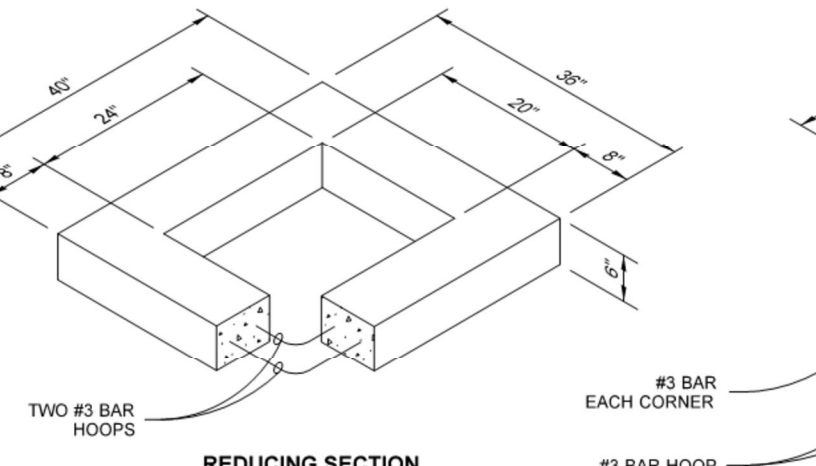
FRAME AND VANED GRATE

PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	18"
ALL METAL PIPE	21"
CRISP* (STD. SPEC. SECT. 9-05.20)	18"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	21"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	21"

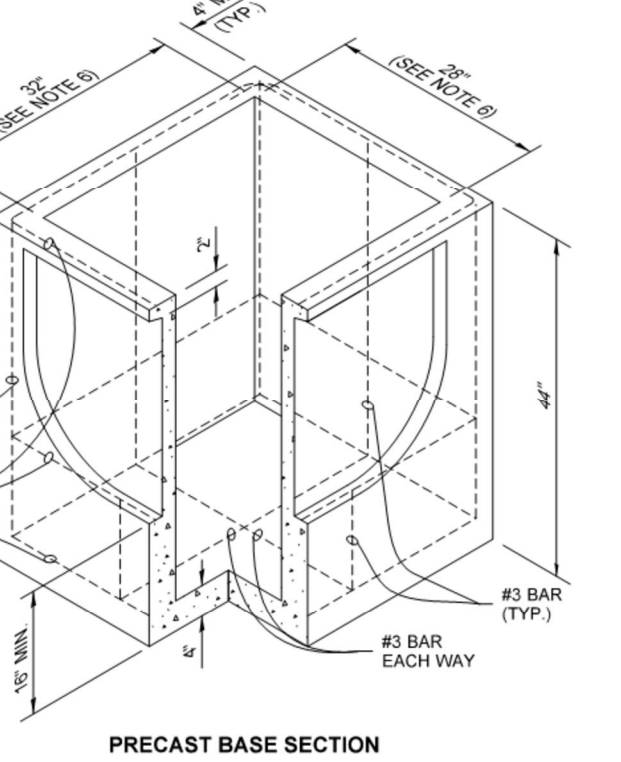
* CORRUGATED POLYETHYLENE STORM SEWER PIPE



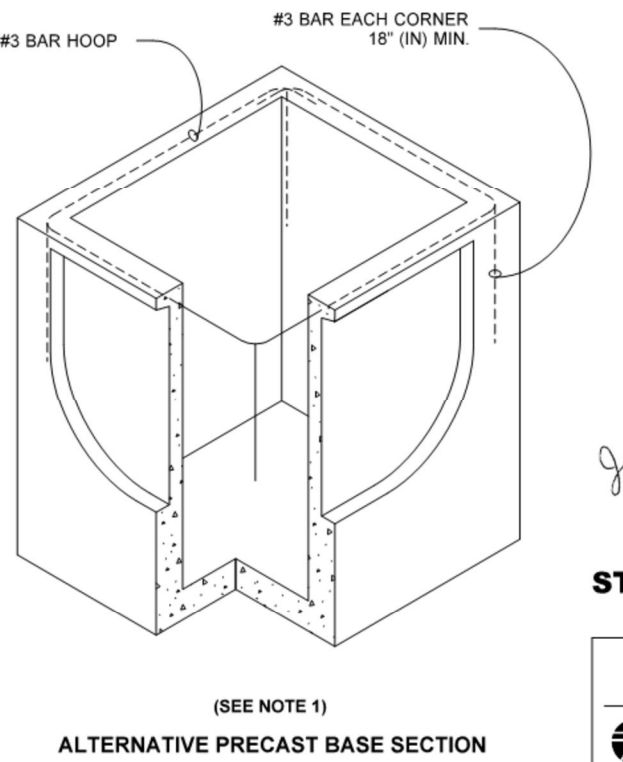
RECTANGULAR ADJUSTMENT SECTION



REDUCING SECTION




PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

NOTES:

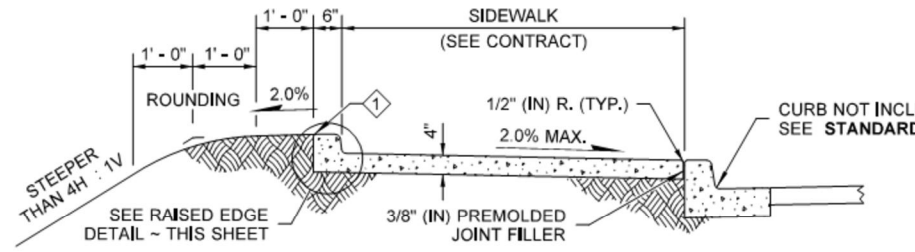
- As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout shall not be greater than 26" (in), in any direction. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.



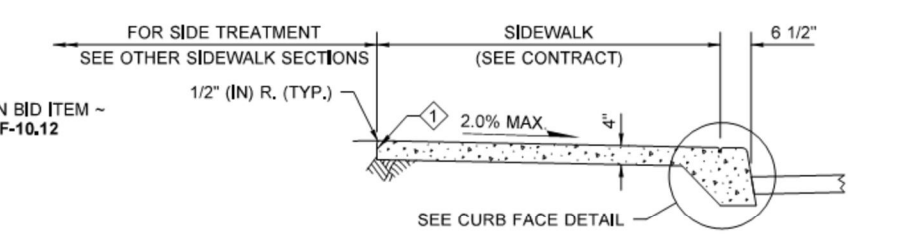
CATCH BASIN TYPE 1L
STANDARD PLAN B-5.40-02
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carroll, Jeff
STATE DESIGN ENGINEER
Washington State Department of Transportation

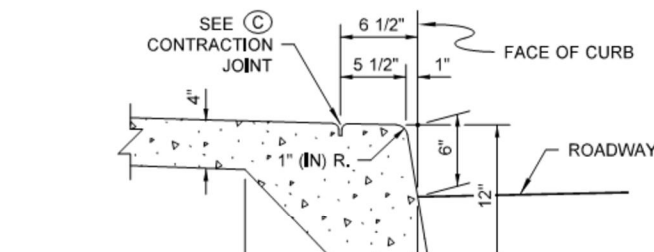
DRAWN BY: LISA CYFORO



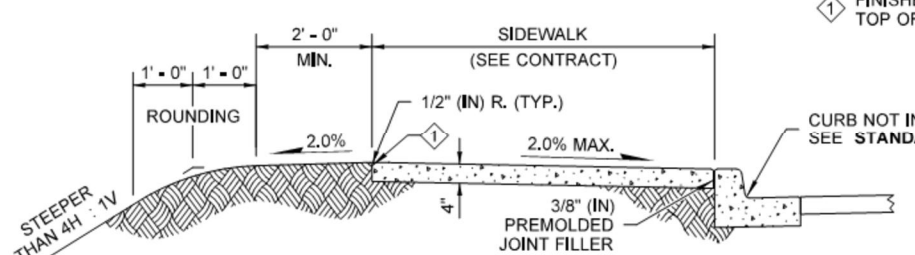
WITH RAISED EDGE



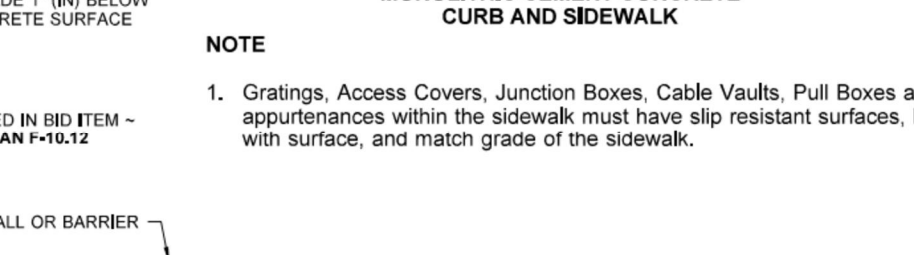
MONOLITHIC CEMENT CONCRETE CURB AND SIDEWALK



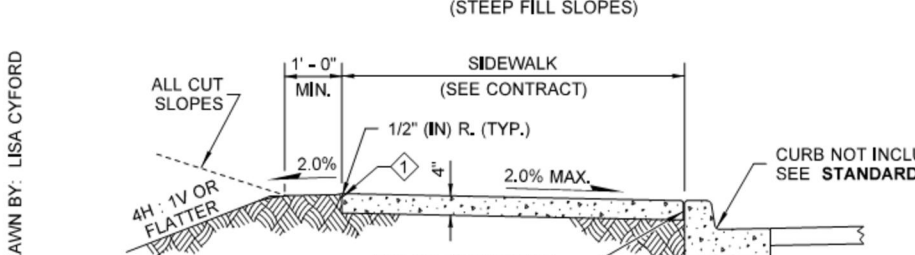
CURB FACE DETAIL



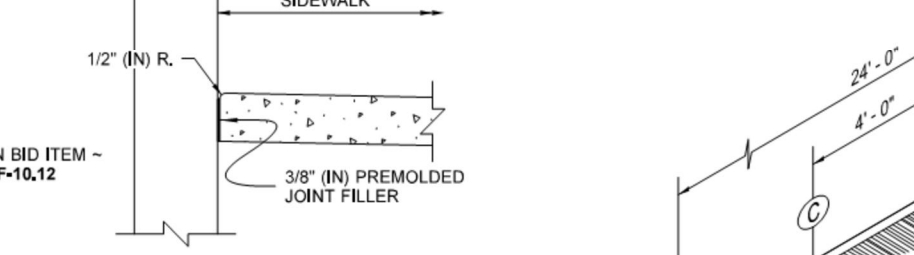
ADJACENT TO CURB



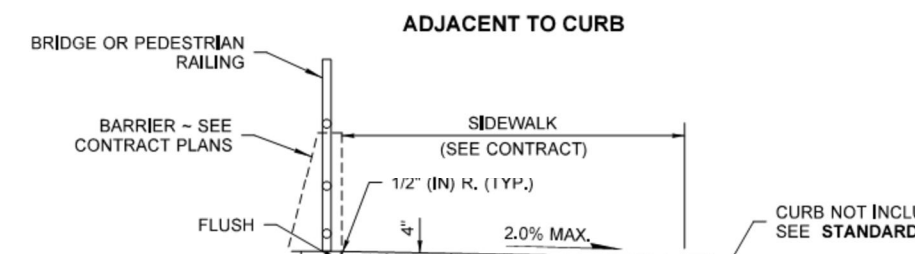
SIDEWALK ADJACENT TO WALL DETAIL



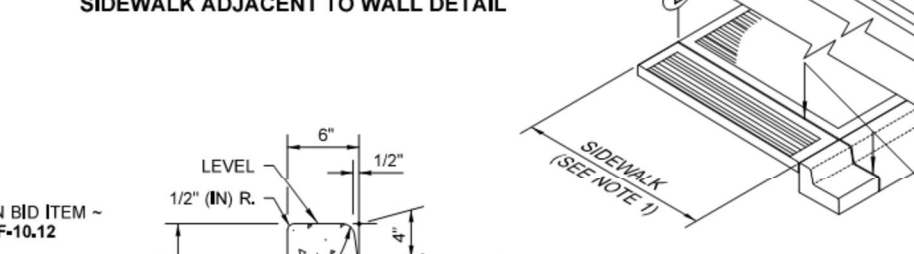
ADJACENT TO CURB AND RAILING OR WALL



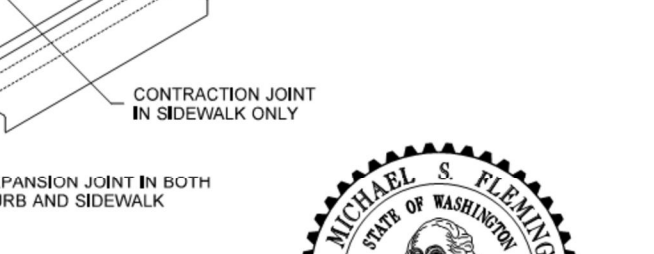
RAISED EDGE DETAIL



ADJACENT TO BUFFER STRIP




EXPANSION JOINT



CONTRACTION JOINT

NOTES:

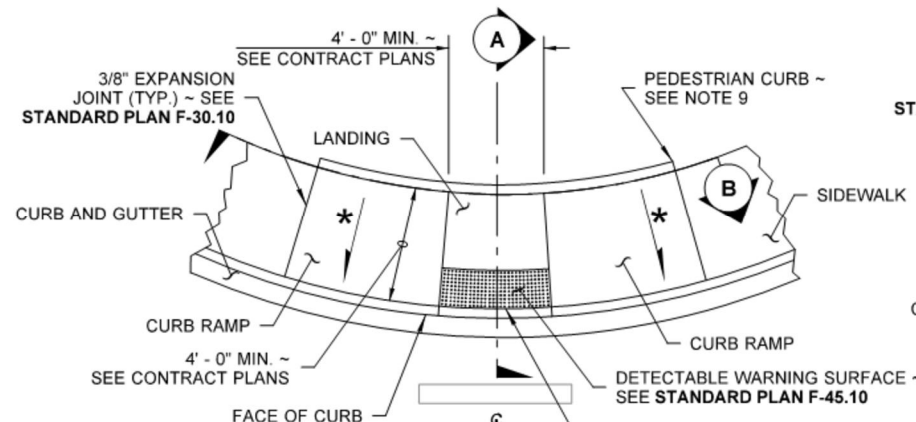
- Gratings, Access Covers, Junction Boxes, Cable Vaults, Pull Boxes and other appurtenances within the sidewalk must have slip resistant surfaces, be flush with surface, and match grade of the sidewalk.



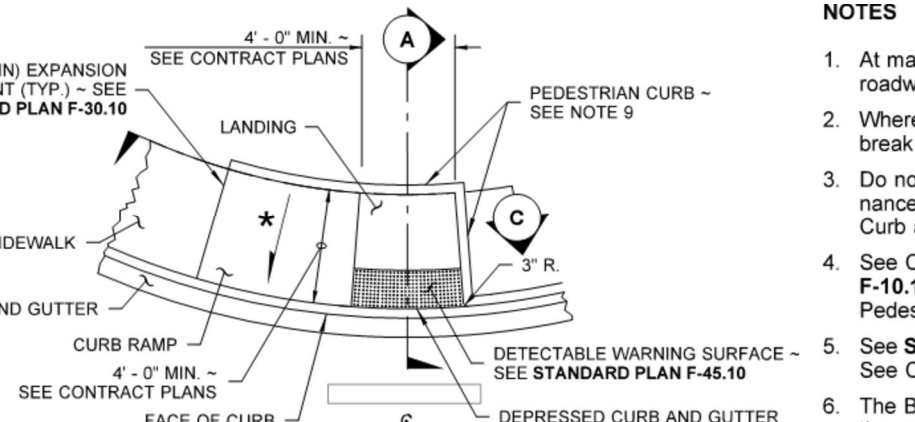
CEMENT CONCRETE SIDEWALK
STANDARD PLAN F-30.10-04
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Michael S Fleming
STATE DESIGN ENGINEER
Washington State Department of Transportation

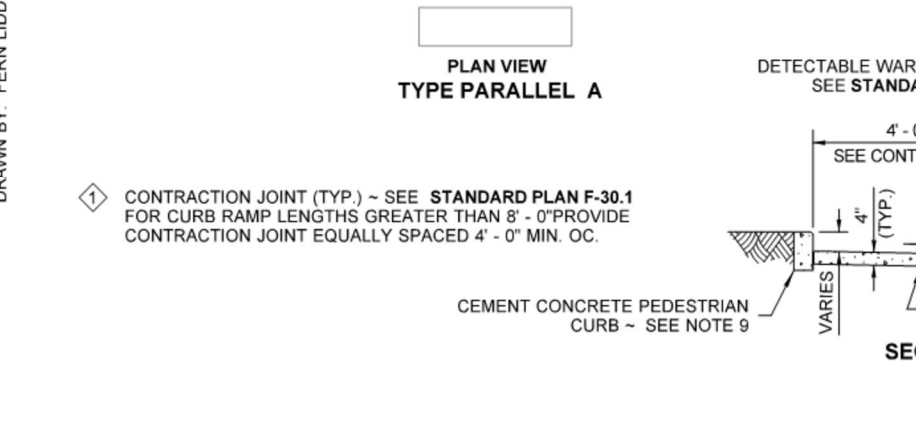
DRAWN BY: FERN LIDDELL



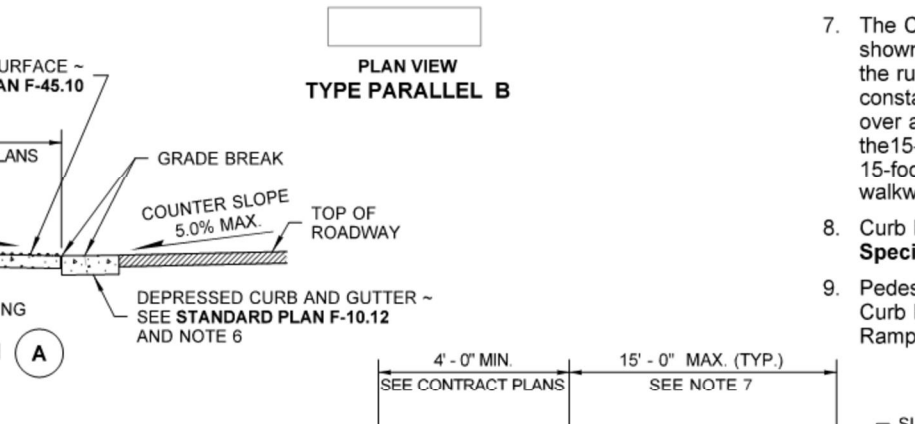
TYPE PARALLEL A



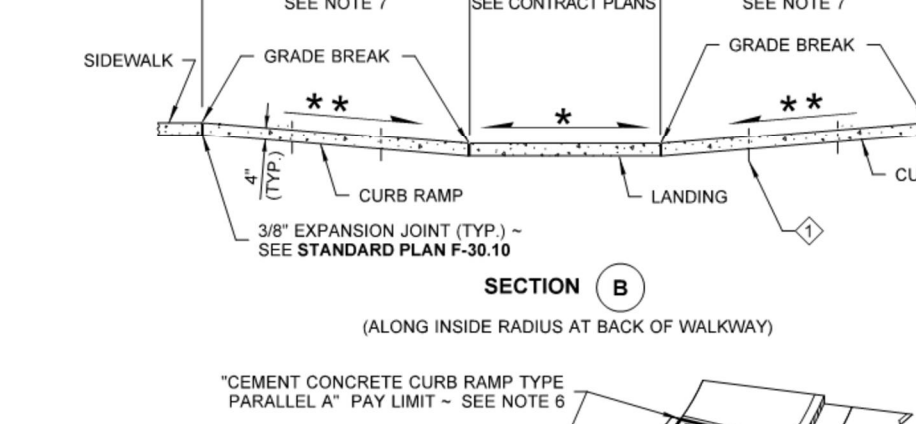
TYPE PARALLEL B



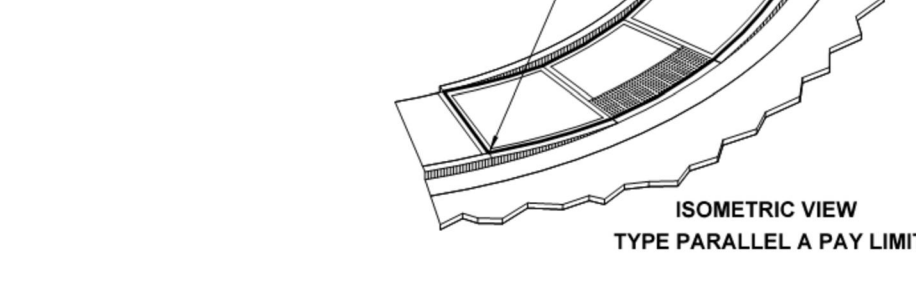
SECTION A



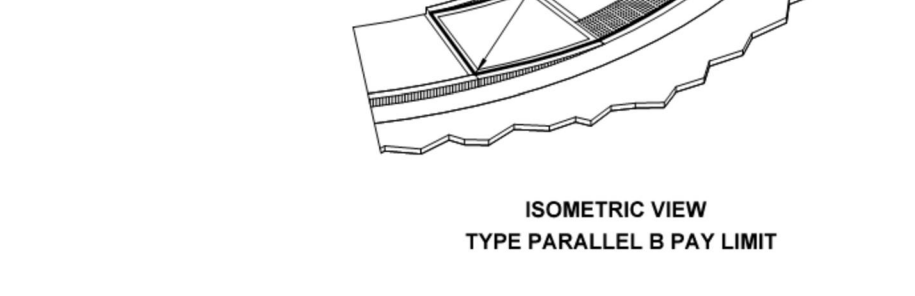
SECTION B



SECTION C




ISOMETRIC VIEW TYPE PARALLEL A PAY LIMIT



ISOMETRIC VIEW TYPE PARALLEL B PAY LIMIT

NOTES:

- At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
- Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
- Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
- See Contract Plans for the curb design specified. See Standard Plan F-10.12 for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
- See Standard Plan F-30.10 for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
- The Bid Item "Cement Concrete Curb Ramp Type" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
- The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 0.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
- Curb Ramps and Landings shall receive a broom finish. See Standard Specifications 8-14.
- Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.



PARALLEL CURB RAMP
STANDARD PLAN F-40.12-03
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Zeller, Scott
STATE DESIGN ENGINEER
Washington State Department of Transportation

NO	DATE	BY	REVISIONS

