CITY OF MERCER ISLAND 2022 WATER SYSTEM IMPROVEMENTS PROJECT



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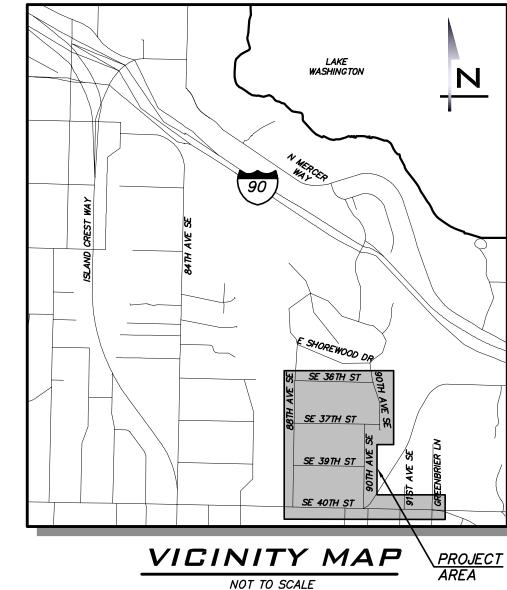
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RR-14 ROAD RESTORATION PLAN - SE 36TH ST STANDARD DETAILS DT-0 1

STANDARD DETAILS DT-02 DT-03 STANDARD DETAILS





PROJECT TEAM

CIVIL ENGINEER

ROB DAHN, PE BLUELINE 25 CENTRAL WAY, SUITE 400 KIRKLAND, WA 98033 (425) 250-7243 ROBÓAHN@THEBLUELINEGROUP.COM

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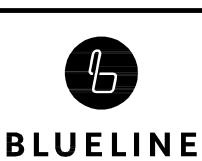
CITY CONTACT

PROJECT MANAGER

GEORGE FLETCHER CITY OF MERCER ISLAND CIP PROJECT MANAGER 9611 SE 36TH ST MERCER ISLAND, WA 98040 (206) 640-5379 GEORGE.FLETCHER@MERCERGOV.ORG

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

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT DESIGNER:

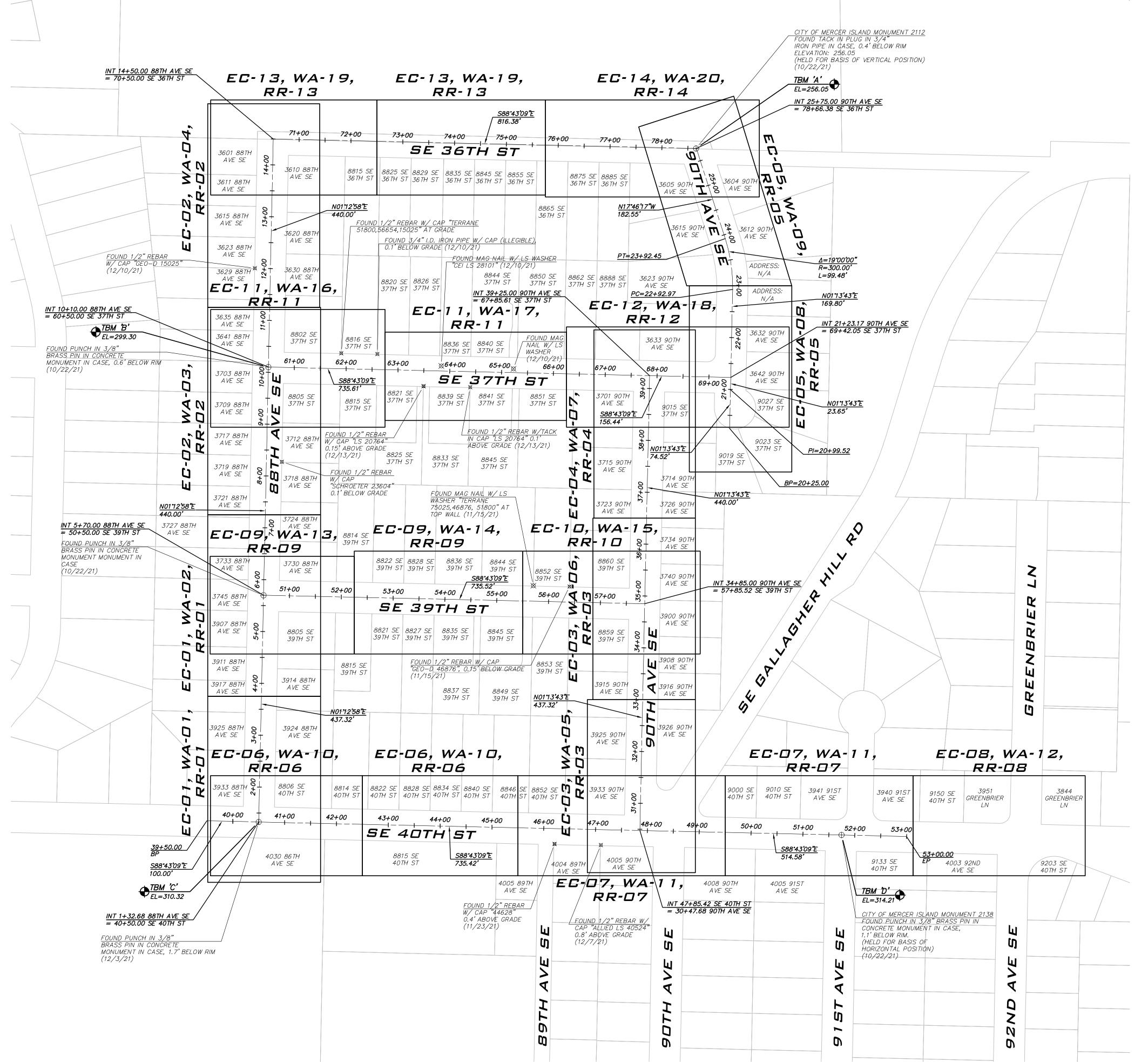
CAROL DOGGETT ISSUE DATE: 3/14/2022

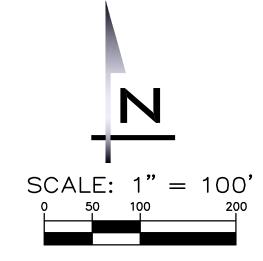
3/14/22

21-303

SHEET NAME: CV-01

_ of _ **59**





BASIS OF BEARINGS

NORTH 11°58'14" WEST BETWEEN CITY OF MERCER ISLAND MONUMENTS 2138 & 2112.

DATUM

HORIZONTAL DATUM: NAD '83/'91 GPS HXGN SMARTNET

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

ORIGINATING BENCHMARK:

CITY OF MERCER ISLAND MONUMENT 2112
FOUND TACK IN PLUG IN 3/4" IRON PIPE IN CASE, 0.4' BELOW RIM AT THE INTERSECTION OF 90TH AVE SE & SE 36TH ST.

ELEVATION: 256.05

POINT 2112

TEMPORARY BENCHMARKS

TBM 'A'
AT FOUND TACK IN PLUG IN 3/4" IRON PIPE IN CASE, 0.4' BELOW RIM AT THE INTERSECTION OF SE 36TH ST & 90TH AVE SE.

ELEVATION: 256.05'

AT FOUND PUNCH IN 3/8" BRASS PIN IN CONCRETE MONUMENT IN CASE, 0.6' BELOW RIM AT THE INTERSECTION OF SE 37TH ST & 88TH AVE SE

ELEVATION: 299.30'

ELEVATION: 310.32'

TIBM 'C'
AT FOUND PUNCH IN 3/8" BRASS PIN IN CONCRETE MONUMENT IN CASE, 1.7' BELOW RIM
AT THE INTERSECTION OF SE 40TH ST & 88TH AVE SE.

🕀 твм 'D'

AT FOUND PUNCH IN 3/8" BRASS PIN IN CONCRETE MONUMENT IN CASE, 1.1' BELOW RIM. AT THE INTERSECTION OF SE 40TH ST & 91ST AVE SE.

ELEVATION: 314.21'

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

EQUIPMENT NOTES: PRIMARY CONTROL I

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 TS15 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON DECEMBER 16, 2021 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES.

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.

SERT B. OF WASHINGTON TO SERVE STERE OF STERE OF

BLUELINE

25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

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PROJECT MANAGER:

PROJECT ENGINEER:

GRACE GARWIN, EIT

ROB DAHN, PE

DESIGNER:

CAROL DOGGETT

ISSUE DATE:

3/14/2022

SCALE: AS NOTED

3/14/22

JOB NUMBER: **21-303**

SHEET NAME:

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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.

2022 - 10:20am - Use

© 2022 BLUELINE

	LEGE	ND									
	PROPOSED FE	ATURES	5								
H	TEE W/ CONC BLOCKING	B -	METER AND/OR METER BOX								
₹1	BEND W/ CONC BLOCKING		FIRE HYDRANT								
\	SLEEVE	A	AIR/VAC RELEASE VALVE								
]+[GATE VALVE) —	BLOW OFF								
]•[VERTICAL BEND		INTERIM CATCH BASIN PROTECTION (INSERT)								
			STRAW WATTLE								
	EXISTING FEATURES										
	PARCEL LINE		CATCH BASIN, TYPE I								
	RIGHT-OF-WAY		CATCH BASIN, TYPE II								
	CENTERLINE	\triangleleft	SD PIPE FLOW								
	- SURFACE FEATURES	7	YARD DRAIN								
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98											
	- STORM DRAIN PIPE	Д	FIRE HYDRANT								
ss_		⊞—	WATER METER								
	- SEWER FORCE MAIN	\bowtie	GATE VALVE								
		W	WATER MANHOLE								
	- AERIAL POWER LINE	W	WATER VAULT								
——————————————————————————————————————	BURIED POWER LINE	\boxtimes	IRRIGATION VALVE								
	- GAS MAIN - BURIED CABLE	Ø	WATER INDICATOR POST								
	BURIED TELEPHONE LINE		MONITOR WELL								
	BURIED FIBER OPTIC CABLE	_	UNKNOWN UTILITY MANHOLE								
	- FENCE	<u>()</u>									
	RETAINING WALL		TELECOMM RISER								
	ROCKERY	\bowtie	TELECOMM JUNCTION BOX								
	- EDGE OF LANDSCAPE	\Box	TV RISER								
	- DRIP LINE		MAIL BOX								
	DITCH OR SWALE	Д	SIGN								
	SEWER MANHOLE	\bigvee									
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	GUY ANCHOR	~~ <u>`</u>	DECIDUOUS TREE								
\bigcirc	STREET LIGHT	~ ~ ~	DEGIDEGGS MEE								
\$	POLE LIGHT		SHRUB								
	POWER METER		400								
	TRANSFORMER		ASPHALT								
	JUNCTION BOX	10 m/s 11 2 m/s 12 m/s	CONCRETE								
Р	POWER VAULT		SOMETE								
	STREET LIGHT VAULT		GRAVEL								
- - -	POWER POLE										
-0-	POWER POLE W/ TRANSFORMER	?									
_ _C	POWER POLE W/ UNDERGROUND										
&	POWER POLE W/ TRANSFORMER										
	TOWER TOLL NY TRANSFORMER	G UNDER	GROOND CONDOIT								

POTH	OLE DA	TA			
POTHOLE#	TARGET UTILITY	PIPE CONDUIT SIZE (INCHES)	PIPE MATERIAL	DEPTH TO TOP OF UTILITY (INCHES)	DEPTH TO BOTTOM OF UTILITY (INCHES)
1	WATER	10	CI	48	58
1A	WATER	8	DI	51	59
2	NOT FOUND				
3	WATER	4	CI	42	46
3A	NOT FOUND				
4	WATER	4	CI	34	38
4A	WATER	10	AC	38	48
5	WATER	10	AC	32	42
6	WATER	10	AC	27	37
7	WATER	10	AC	34	44
8	WATER	10	AC	39	49

GENERAL NOTES

- 1. 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 2022 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.
- 2. A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN
- 3. 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.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY 21 DAYS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL SECURE ALL LOADS PER RCW 46.61.655.
- 9. 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.
- 10. TRIM OR REMOVE PLANTS, IF NEEDED, TO ACCOMMODATE THE RELOCATION OF HYDRANTS AND METER BOXES. PROVIDE LANDSCAPE RESTORATION TO MATCH EXISTING SURROUNDINGS.
- 11. PROVIDE HYDROSEED FOR ALL UNPAVED AND NON-GRAVEL AREAS DISTURBED DURING CONSTRUCTION.
- 12. 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

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

TESC NOTES

- 1. THE CONTRACTOR SHALL HAVE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) MEASURES IN PLACE PRIOR TO CONSTRUCTION.
- 2. 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.
- 3. 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

- 1. 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 EXPOSED BY THE CONTRACTOR PRIOR TO LAYING THE WATER MAIN TO DETERMINE IF CHANGES ARE NEEDED.
- 2. ALL MATERIAL FOR WATER DISTRIBUTION SHALL BE NEW.
- 3. 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.
- 4. 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.
- 5. PRIOR TO LAYING PIPE THE CONTRACTOR SHALL:
- 5.1. IN THE PRESENCE OF THE CONSTRUCTION INSPECTOR, EXPOSE THE EXISTING WATER MAIN TO DETERMINE ITS ELEVATION AND ALIGNMENT.
- 5.2. 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.
- 5.3. 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.
- 5.4. 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.
- 6. CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS AND FORCE SEWER MAINS.
- 7. 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.
- 8. 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.
- 9. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS ISSUED FOR THIS
- 10. 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 UNLESS SPECIFICALLY CALLED OUT ON THE PLANS THAT BLOCKING IS NOT REQUIRED. IF CONFLICTING UTILITIES PREVENT THE USE OF A THRUST BLOCK IN COMPLIANCE WITH THE STANDARD DETAIL, THE CONTRACTOR SHALL INSTALL ROMAC PIPE RESTRAINERS AS APPROVED BY THE ENGINEER.
- 11. 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.
- 12. ALL WATER SERVICE PIPING MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
- 13. 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.
- 14. PROVIDE FITTINGS, BENDS, AND BLOCKING AS REQUIRED TO MAKE SERVICE CONNECTION.
- 15. 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.
- 16. 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 BURY DEPTH TO INSTALL HYDRANTS WITHOUT USING VERTICAL BENDS. THIS POTHOLING SHALL BE DONE EARLY ENOUGH TO ALLOW PROPER DEPTH HYDRANTS TO BE ORDERED.
- 17. 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.
- 18. WHEN FLUSHING THE MAIN, DISCHARGED WATER MUST BE DRAINED INTO THE SANITARY SEWER SYSTEM. THIS DISCHARGE MUST BE COORDINATED WITH THE CITY UTILITIES MANAGER.
- 19. 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.
- 20. 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.
- 21. MAXIMUM PIPE DEFLECTION AT JOINTS SHALL BE HALF THE MANUFACTURER'S ALLOWABLE DEFLECTION UNLESS OTHERWISE SPECIFIED.
- 22. CONTRACTOR SHALL COORDINATE CONSTRUCTION W/ PUGET SOUND ENERGY (PSE) PRIOR TO EXCAVATION NEAR GAS MAINS. THE PSE REPRESENTATIVE SHALL (AT A MINIMUM) BE ONSITE FOR CONSTRUCTION AROUND 4" DIAMETER AND LARGER AND/OR HIGH PRESSURE GAS MAIN. PROVIDE SAND BEDDING PER PSE REQUIREMENTS.
- 23. 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.
- 24. 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.
- 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.
- 26. 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 TIE IN THE MONUMENT AND FILE PAPERWORK WITH THE STATE PRIOR TO MONUMENT

 BEING DISTURBED.



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SCALE: AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

ISSUE DATE:

DESIGNER: CAROL DOGGETT

3/1	3/14/2022							
	REVISIONS							
	ВУ							
	DATE							
	ND							

GENERAL NOTES & LEGENI 2022 WATER SYSTEM MPROVEMENTS PROJE



3/14/22

JOB NUMBER: **21-303**

SHEET NAME:

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								BOX (1714)	·	
88th Ave SE										
MYRFORS	3933 88th Ave SE	45276918	5/8"	Sensus	N	N	Υ	Υ	5' EAST INLINE WITH UTILITY POLE	
OUZA	3925 88th Ave SE	35127916	5/8"	Rock Well	N	N	Υ	Y	5' EAST & 5' NORTH, POWER POLE AND COMMUNICATION LINES NEAR METER	
	3917 88th Ave SE	49128439	3/4"	Sensus	N	N	Υ	Y	9' E AST BEHIND FENCE	METER IS A 5/8" NOT A 3/4"
ANGUAS-LARSON	3911 88th Ave SE	35127924	5/8"	Rock well	N	N	Υ	Y	9' EAST BEHIND FENCE & 5' NORTH INLINE WITH UTILITY LINE	
SHARMA	3907 88th Ave SE	61434722	5/8"	Sensus	N	N	Υ	Y	9' EAST BEHIND FENCE	13322056
OHN HALL	3745 88th Ave SE	11012343	5/8"	Metron	N	N	Υ	N	SAME LOCATION	15320183
BYUN-KIM	3733 88th Ave SE	38657701	3/4"	7URN	N	N	Υ	Υ	9' EAST POWER POLE AND COMMUNICATION LINES NEAR METER	
ROBERT YING	3727 88th Ave SE	37289927	5/8"	Rock Well	N	N	Υ	Υ	9' EAST	
GLANT	3721 88th Ave SE	9971086	5/8"	Metron	N	N	Υ	Υ	9' EAST	
NEPALI	3719 88th Ave SE	35127919	1.5"	Rockwell	Υ	Υ	N	Υ	9' EAST	
HAUDENSCHIELD	3717 88th Ave SE	63186837	5/8"	Sensus	N	N	Υ	Y	9' EAST	
CHEN	3709 88th Ave SE	37289929	5/8"	Rockwell	N	N	N	Υ	9' EAST	
OSEPH	3703 88th Ave SE	11013977	1.5"	Metron	Υ	Υ	N	Υ	3' SOUTH	CANT READ (NO LABEL)
EISENMAN	3641 88th Ave SE	9971077	5/8"	Master Meter	N	N	Υ	Υ	8' EAST INLINE WITH UTILITY POLE	
DONALDSON	3635 88th Ave SE	42691386	3/4"	Rockwell	N	N	Υ	Υ	9' EAST & 6' SOUTH	METER IS A 5/8" NOT A 3/4"
CORBETT	3629 88th Ave SE	11912629	1.5"	Metron	Y	Υ	Υ	N	SAME LOCATION	15201357
HUNG	3623 88th Ave SE	41491967	5/8"	Rockwell	N	N	N	Y	5' EAST POWER POLE AND COMMUNICATION LINES NEAR METER	
CHAN	3615 88th Ave SE	41491966	5/8"	Rockwell	N	N	N	Y	5' EAST POWER POLE AND COMMUNICATION LINES NEAR METER	
ORENSTEIN	3611 88th Ave SE	35127925	5/8"	Rockwell	NI	NI NI	N	V	7' EAST SMALL POWER CONCRETE BOX NEXT TO METER	
ONEIN 3 I EIIN	SULL OOUI AVE SE		ο/ δ	Rockwell	IN IN	IN	IN	Y	/ LAST SIVIALL FOVVER COINCRETE BOX NEXT TO IVIETER	
YAPING DAI	3601 88th Ave SE	35127926	5/8"	Sensus	N	N	N	Y	7' EAST	
KAWAGUCHI	3924 88th Ave SE	64797033	5/8"	Sensus	N	N	N	Y	5' WEST	
MEDCED ISLAND DRODEDTIES U.S.	2014 90+b Avia CE	42067405	5/8"	Dodovall	N.I.	R.I	٧	v	15' W/ECT	
	3914 88th Ave SE	42967495		Rockwell	IN IN	IN	•	'	15' WEST	
CHAN	3730 88th Ave SE	42967676	5/8"	Rockwell	N	N	N	Y	15' WEST SIDEWALK IN THE WAY, POSSIBLE HOLE HOG	
CHAN	3724 88th Ave SE	11919375	1.5"	Metron	Y	Y	Υ	Y	10' WEST SIDEWALK IN THE WAY, POSSIBLE HOLE HOG	884300681
FOWMAN LLC	3718 88th Ave SE	41491972	1.5"	Rockwell	Y	Υ	Y	Y	12' WEST SIDEWALK IN THE WAY, POSSIBLE HOLE HOG - INTERCEPT AFTER TESTING	UNABLE READ (NO LABEL) PERMIT IN PROCESS. 2-IN SERVICE WITH 1 1/2" METE
AM	3712 88th Ave SE	61435384	1"	Sensus	N	N	Υ	N	SAME LOCATION	13154779 UNABLE TO READ METER # IN FIELD
STENBERG	3630 88th Ave SE	51212019	3/4"	Sensus	N	N	Υ	Υ	7' WEST & 6' NORTH	
LIGHTFOOT	3620 88th Ave SE	41491969	5/8"	Rockwell	N	N	Υ	Y	10' WEST & 4' SOUTH	
CANHUA LI	3610 88th Ave SE	47241048	5/8"	Sensus	N	N	Υ	· Y	10' WEST & 4' SOUTH	
90th Ave SE				25545			•	<u> </u>		
	3033 00+6 400 55	54955922	[Sonous	N I	N.I.	N I	l N	2' SOLITH SERVICE OFF SE 40TH ST	
HALLIGAN	3933 90th Ave SE		5/8"	Sensus	N	IN .	IN		2' SOUTH SERVICE OFF SE 40TH ST	
STRUTHERS	3925 90th Ave SE	67738393	5/8"	Sensus	N	N	N	N	2' SOUTH	
LEMASTER	3915 90th Ave SE	66211254	5/8"	Sensus	N	N	Υ	N	SAME LOCATION	
JAE YOUNG YOON	3723 90th Ave SE	42967790	5/8"	Rockwell	N	N	Υ	Y	8' EAST	
HOMAZAD SHAHRI	3715 90th Ave SE	42967795	5/8"	Rockwell	N	N	Υ	Y	8' EAST	
HIRJI	3701 90th Ave SE	9971097	5/8"	Master Meter	N	N	Υ	N	SAME LOCATION SERVICE OFF SE 37TH ST	
RKK CONSTRUCTION INC	3633 90th Ave SE	39118179	3/4"	Hays	N	N	Υ	Y	15' SOUTH FROM BEHIND SHRUBS TO 37TH	
RKK CONSTRUCTION INC	3623 90th Ave SE	36657702	3/4"	Hays	N	N	Υ	Y	16' EAST	
ALAGUGURUSAMY	3615 90th Ave SE	11004384	1.5"	Metron	V	Y	Υ	N	SAME LOCATION	13137354
					, , , , , , , , , , , , , , , , , , ,	I NI		Y		
DIEDERICH	3605 90th Ave SE	9971087	5/8"	Master Meter	N	N	Υ	<u>'</u>	12' E LARGE TREE ROOTS POSSIBLE HAND WORK OR HOLE HOG	
VINING	3926 90th Ave SE	73977319	3/4"	Sensus	N	N	N	Y	5' EAST	
STARBUCK	3916 90th Ave SE	58163305	5/8"	Sensus	N	N	N	Y	5' EAST	
ALEXANDER	3908 90th Ave SE	72462303	5/8"	Sensus	N	N	N	N	SAME LOCATION	
MATERI	3900 90th Ave SE	37289905	5/8"	Rockwell	N	N	N	N	SAME LOCATION	
ALLAHYARI	3740 90th Ave SE	37289907	5/8"	Rockwell	N	N	Υ	N	SAME LOCATION	
DYKSTRA	3734 90th Ave SE	71449768	5/8"	Sensus	N	N	Υ	N	SAME LOCATION	
/UAN ZHONG	3726 90th Ave SE	37289932	5/8"	Rockwell	N	N	Υ	N	SAME LOCATION	
	3714 90th Ave SE					N	Y			
DEAN		9971068	5/8"	Master Meter	N		-	N	SAME LOCATION	
PALLIS	3642 90th Ave SE	47241039	5/8"	Sensus	N	N	N	Y	12' WEST	
TUBBS	3632 90th Ave SE	9971096	5/8"	Master Meter	N	N	Υ	Y	14' WEST	
		İ	l_ ,		N	l N	٧	\ _{\(\psi\)}	9' WEST	
BERGER	3612 90th Ave SE	68369145	5/8"	Sensus	IN		<u> </u>	<u>'</u>	J WEST	

MOVING

METER/METER

BOX (Y/N)?

METER RELOCATION INFO/COMMENTS

REPLACING METER REPLACE METER TRAFFIC BEARING

BOX (Y/N)?

BOX

(Y/N)?

UTILITY BILLING METER | EXISTING/NEW

(REGISTER #)

METER SIZE

ADDRESS

LAST NAME

METER MAKE

NOTE

METERS AND METER BOXES TO BE
REPLACED WILL BE PROVIDED BY THE CITY.



Radio Read / MXU OTHER INFO (PRV, FIRE, OR IRRIGATION)?

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

SCALE: AS NOTED PROJECT MANAGER:

PROJECT ENGINEER:

GRACE GARWN, EIT

DESIGNER:
CAROL DOGGETT

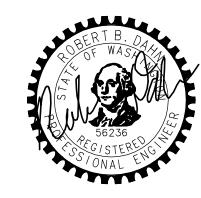
ISSUE DATE:

3/14/2022

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REVISIONS

DZZ WATER SYSTEM ROVEMENTS PROJEG



3/14/22

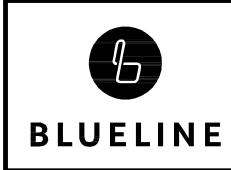
JOB NUMBER:
21-303
SHEET NAME:

GN-03

ıт **4** □**F 5**9

NOTE

METERS AND METER BOXES TO BE REPLACED WILL BE PROVIDED BY THE CITY.



25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER:

GRACE GARWIN, EIT DESIGNER:

CAROL DOGGETT

ISSUE DATE: 3/14/2022

3/14/22

JOB NUMBER: 21-303 SHEET NAME:

GN-04

<u>5</u> of <u>59</u>

ZZZ ZZ BLUELINE

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: ROB DAHN, PE

PROJECT ENGINEER:

GRACE GARWIN, EIT DESIGNER:

CAROL DOGGETT ISSUE DATE:

3/14/2022								
REVISIONS								
BY								
DATE								
DN								

3/14/22

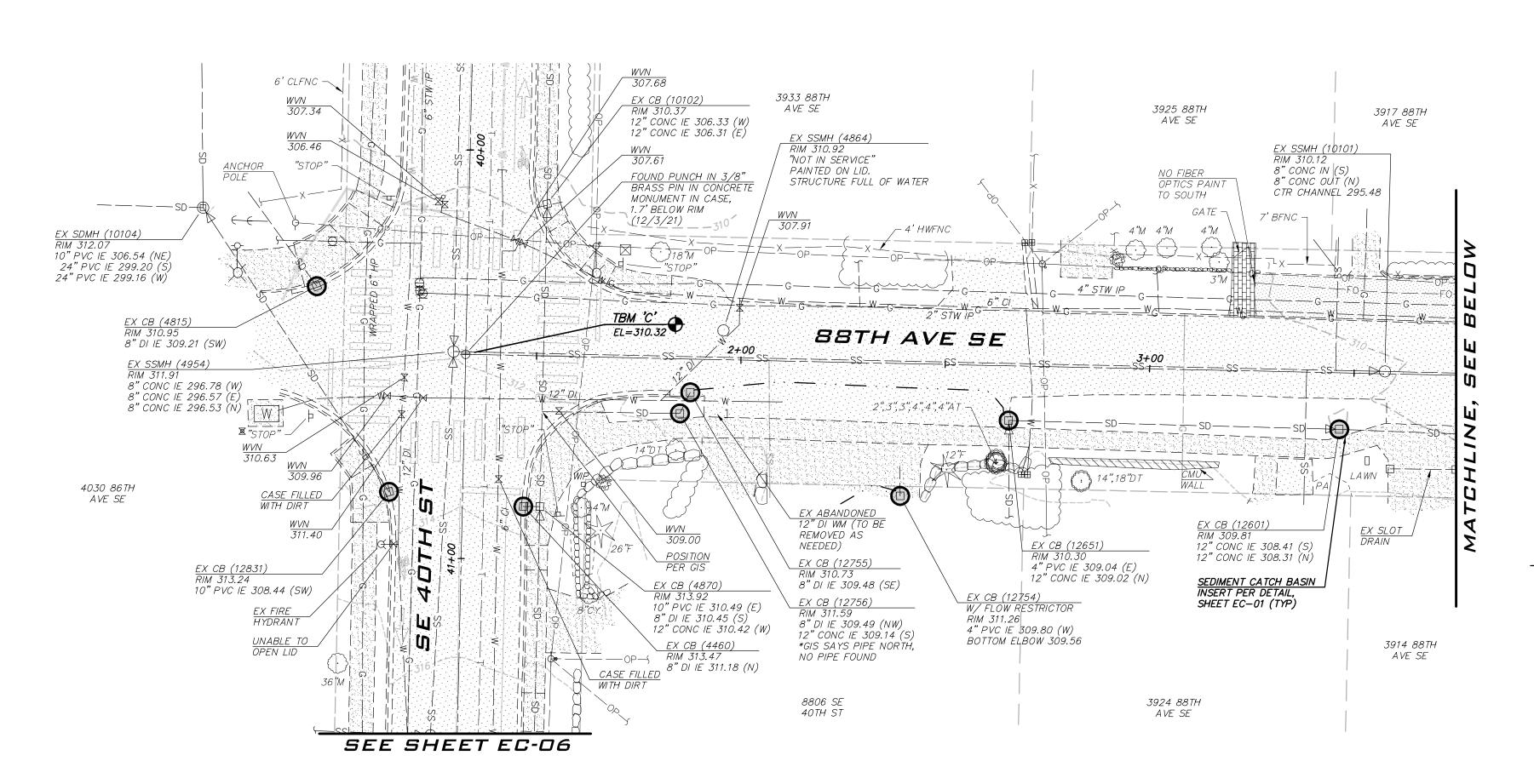
JOB NUMBER: 21-303

SHEET NAME: GN-05

<u>6</u> of <u>59</u>

NOTE

METERS AND METER BOXES TO BE REPLACED WILL BE PROVIDED BY THE CITY.



3745 88TH

AVE SE

SEE SHEET EC-09

MONUMENT MONUMENT IN CASE (10/22/21)

EX SSMH (25480) 3733 88TH

STRAW WATTLE PER DETAIL, SHEET EC-01

IE 304.63 (S)

12" CONC IE 304.85 (N)

12" CMP IE 305.29 (S)

12" CPP IE 304.99 (É)

12" CPP IE 305.66 (E) 12" CPP IE 305.66 (W)

3730 88TH

AVE SE

LAWN

- 2",2",2",4",4",4"DT

3-4",3-6",8"D -

7+00

6" PVC IE 304.25 (SE)

6" PVC IE 304.11 (N)

8" CONC IN (S) 8" CONC OUT (N) CTR CHANNEL 291.68 8" CONC IE 291.77 (E)

3907 88TH

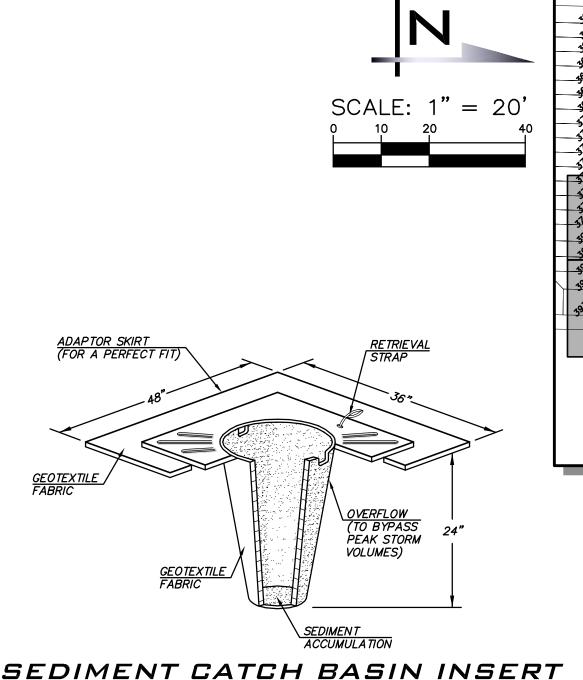
88TH AVE SE

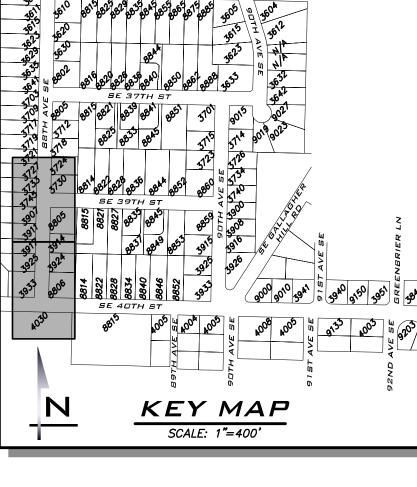
6" CONC IE 305.48 (NE) -31. 12" CONC IE 305.40 (S) 12" CMP IE 305.16 (N)

UNABLE TO FIND END OF PIPE

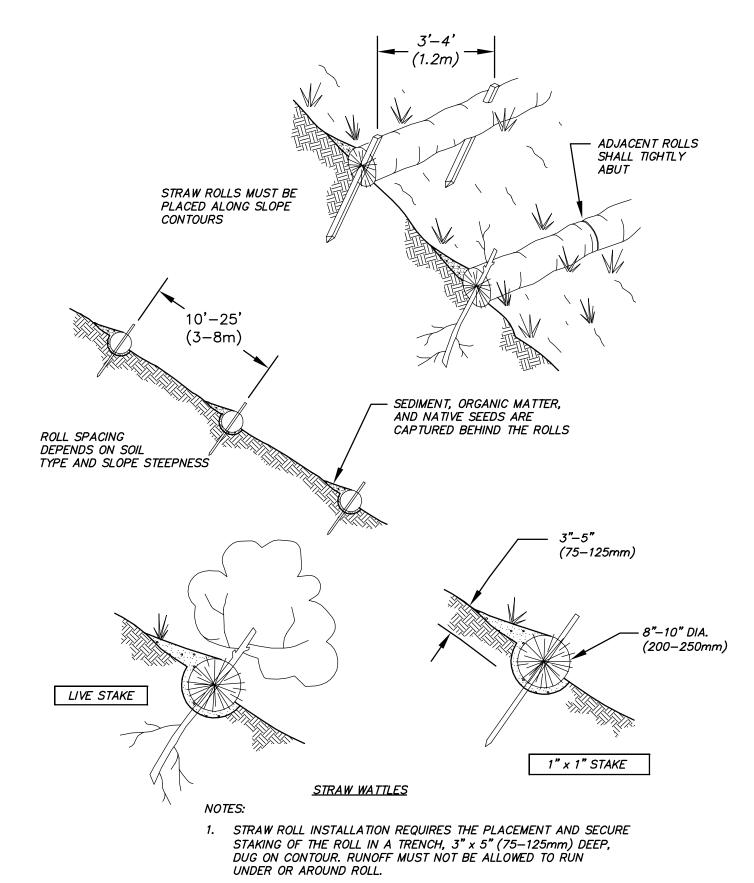
12" CONC IE 306.21 (S) 12" CONC IE 306.21 (N)

8805 SE 39TH ST





SEDIMENT CATCH BASIN INSERT NOT TO SCALE



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. 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

PROJECT MANAGER:

PROJECT ENGINEER:

GRACE GARWIN, EIT

AS NOTED

ROB DAHN, PE

DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

3/14/22

21-303 SHEET NAME:

EC-01

7 of 59

3917 88TH AVE SE

4+00

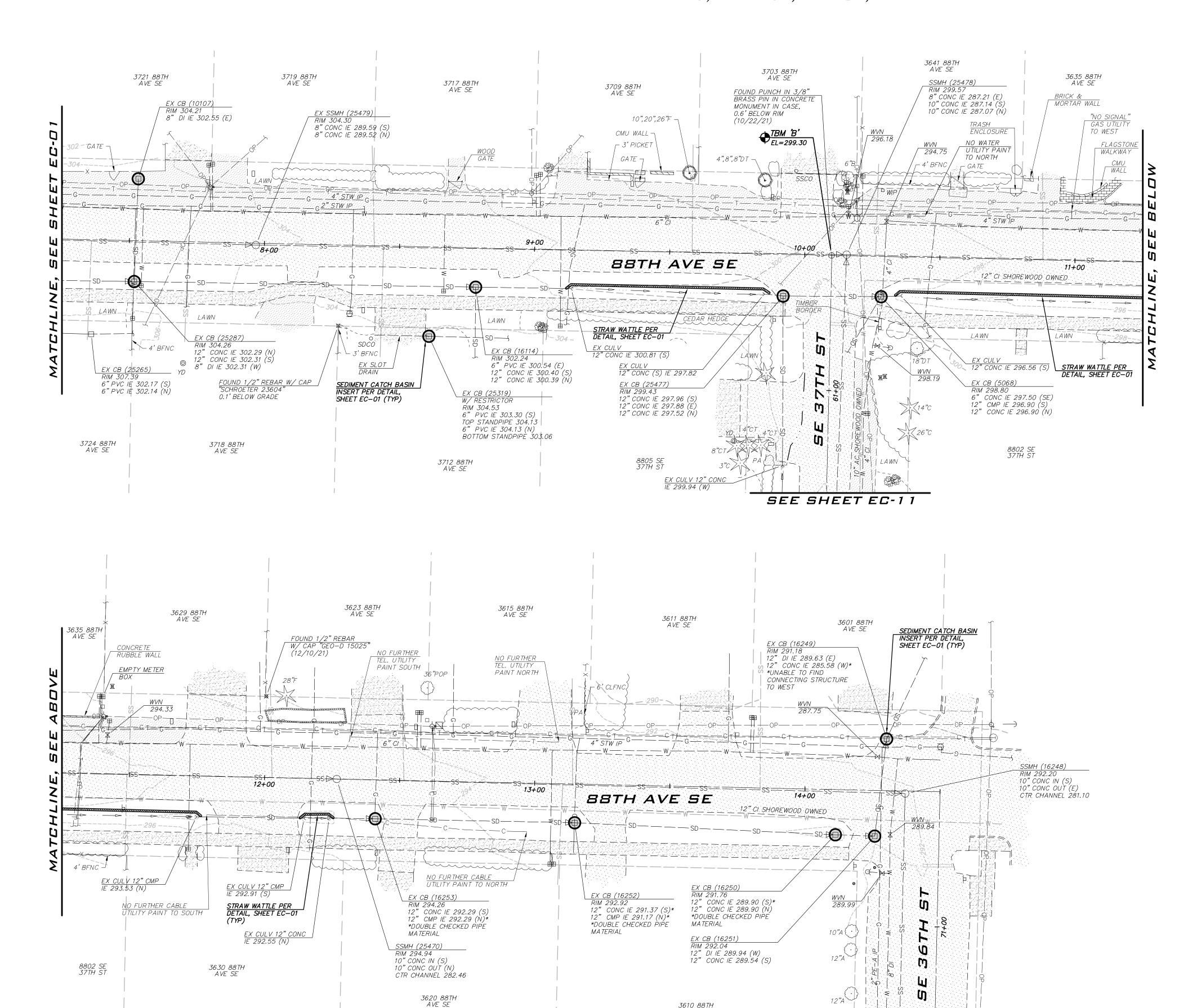
SEDIMENT CATCH BASIN INSERT PER DETAIL,

12" CONC IE 306.75 (S) 12" CONC IE 306.67 (N)

SHEET EC-01 (TYP)

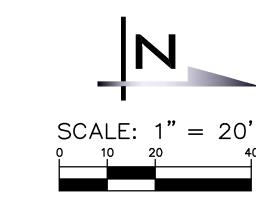
3914 88TH

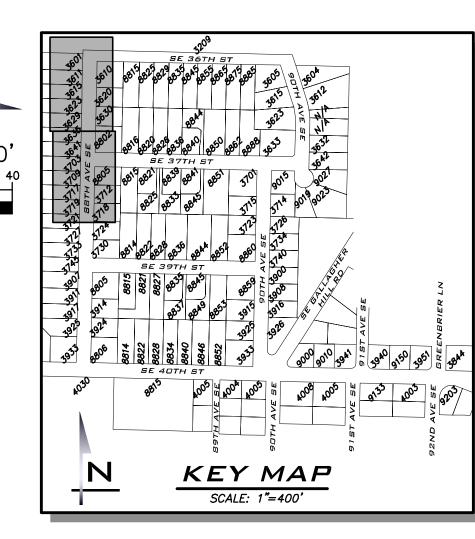
AVE SE



3610 88TH AVE SE

SEE SHEET EC-13







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

SCALE: AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:

3/14/2022

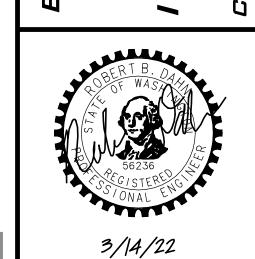
DESIGNER:
CAROL DOGGETT
ISSUE DATE:

AVE SE

R SYSTEM

S PROJECT

PLAN - BBTH AVE SE 2022 WATER SYSTE 1PROVEMENTS PROJI



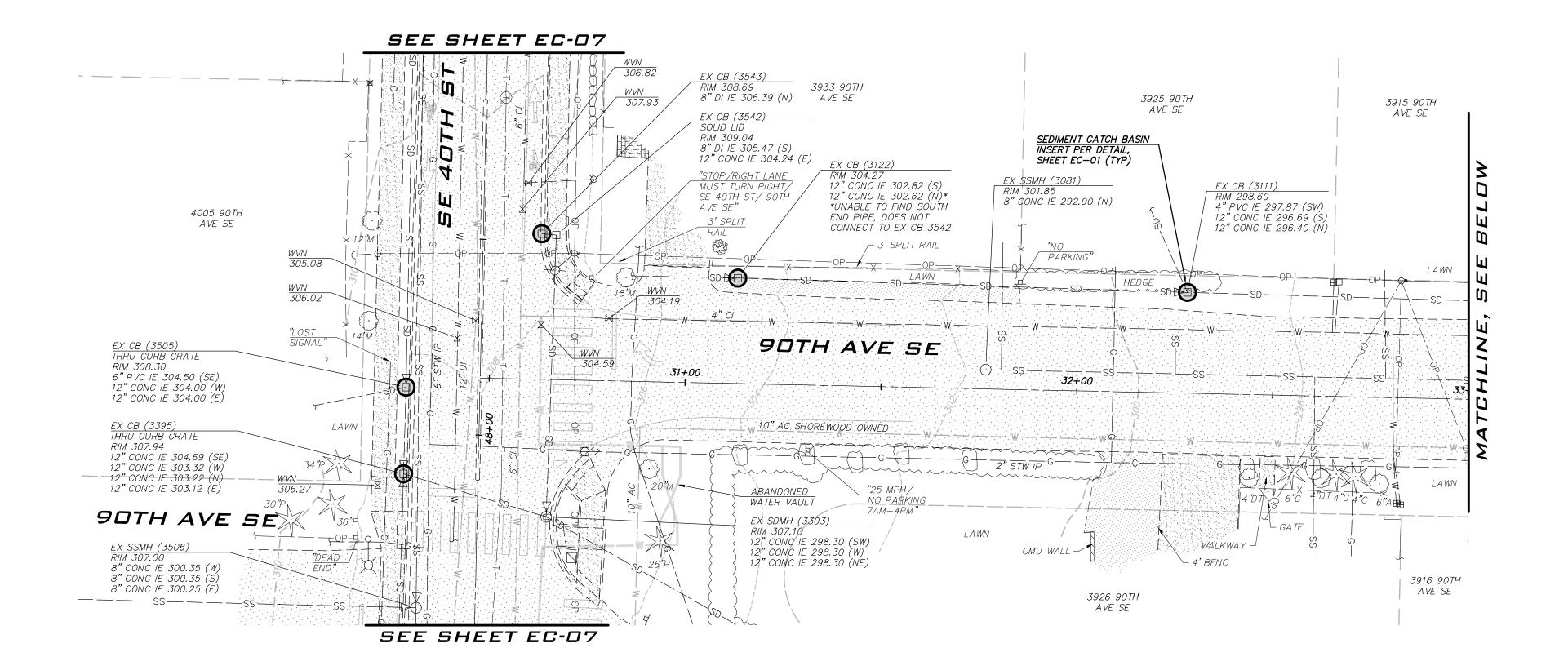
EXISTING UTILITY NOTE

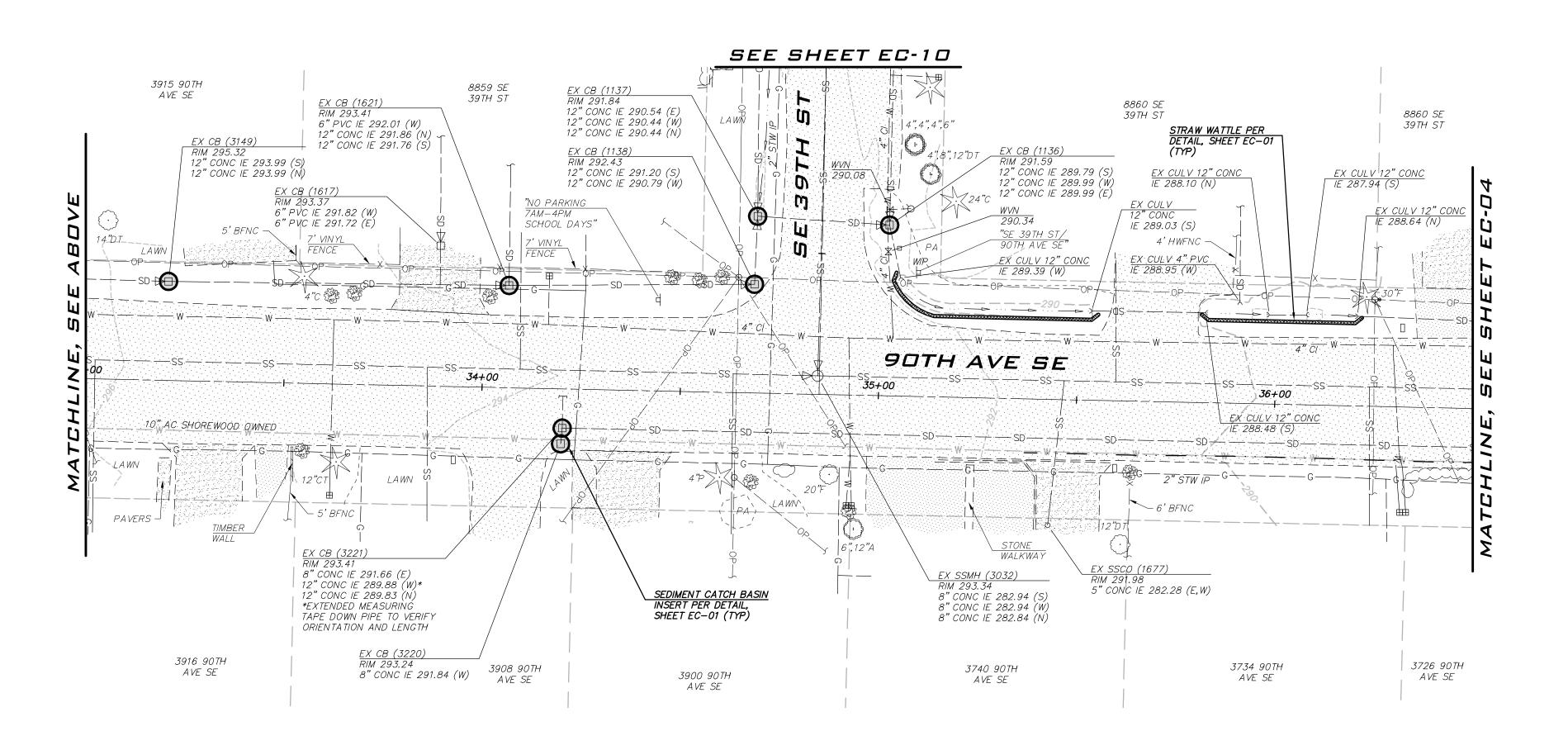
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION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

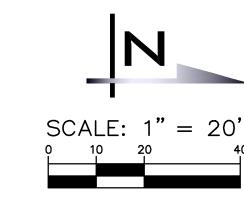
JOB NUMBER: **21-303**

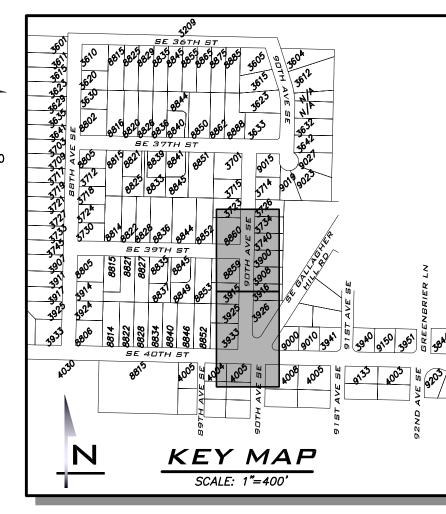
EC-02

<u>8</u> of <u>59</u>











AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

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REVISIONS						
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DATE						
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3/14/22

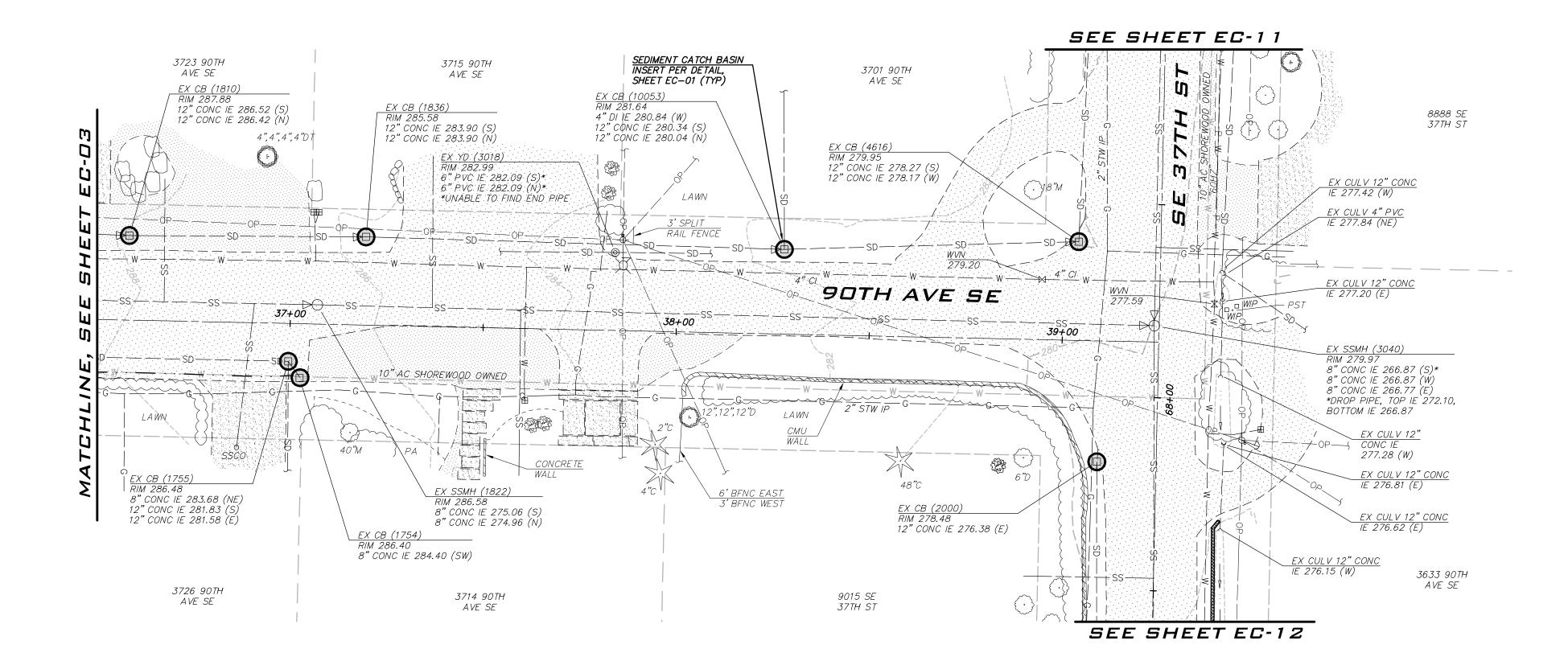
21-303

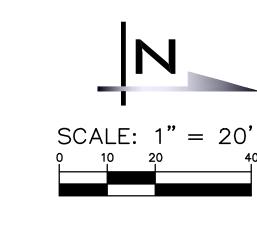
EC-03

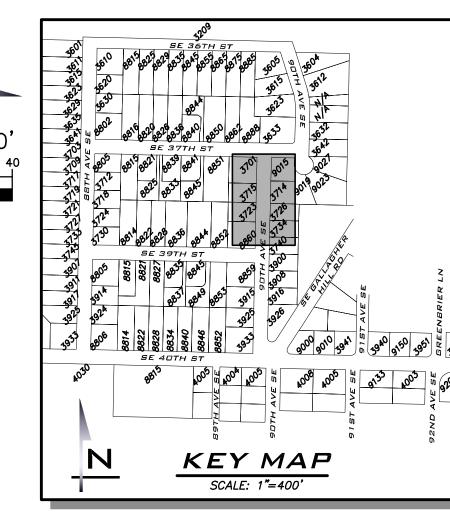
<u>9</u> of <u>59</u>

SHEET NAME:

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 <u>ONE CALL</u> AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.









SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

CUNDITIONS & LESC 1 - 90TH AVE SE WATER SYSTEM

PLAN - 90TH AVE 2022 WATER SY IMPROVEMENTS P

DERT B. WASHINGTON DE LA COMPANIA DEL COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DEL
3/14/22

JOB NUMBER: **21-303**

EC-04

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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.

3605 90TH AVE SE

12" DI IE 254.96 (SE)

DOUBLE CHECKED PIPE MATERIAL

25+00

EX CB (1484) RIM 257.25

12" DI IE 255.44 (NW)

12" CONC IE 254.92 (N)

12" CONC IE 254.92 (S)**

LINES ATTACHED

' DI IE 264.96 (W)

3" DI IE 264.75 (SÉ)

12" CONC IE 264.56 (S) 12" CONC IE 264.46 (N)

RIM 265.43

8" DI IE 265.29 (NW)

ADDRESS: N/A

8" CONC IN (N) 8" CONC OUT (S) CTR CHANNEL 256.84

∼ CMU WALL

EX CB (1504) RIM 260.47

24+00

90TH AVE SE

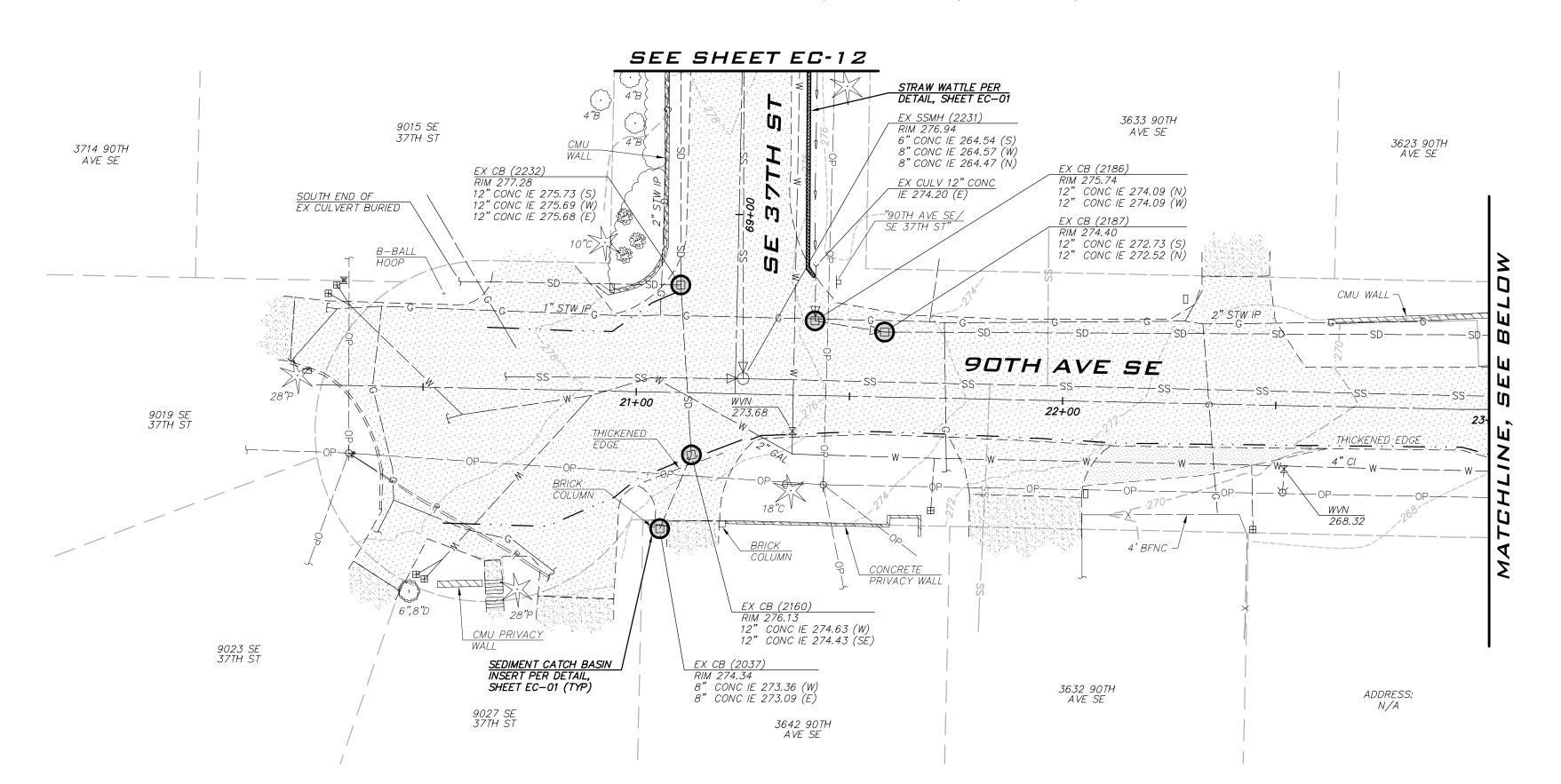
8" PVC IE 258.97 (SW) 12" CONC IE 258.77 (N) 12" CONC IE 258.76 (S)

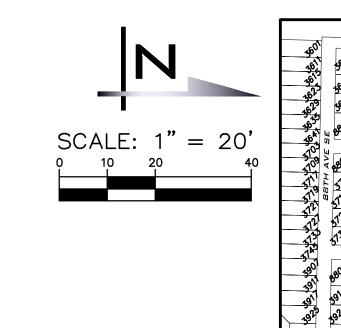
4" FLEX IE |257.35 (W)

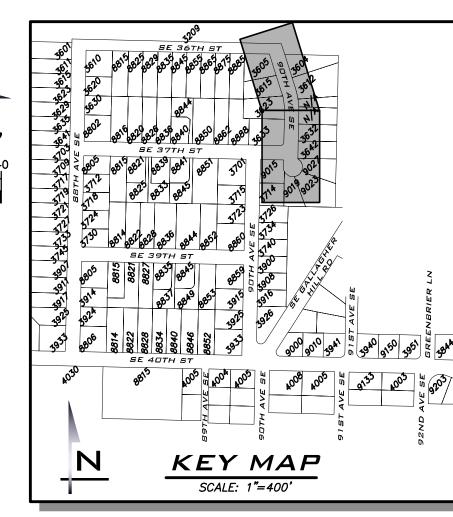
12" CONC |E 257.24 (S) 12" DI IE 257.22 (N)**

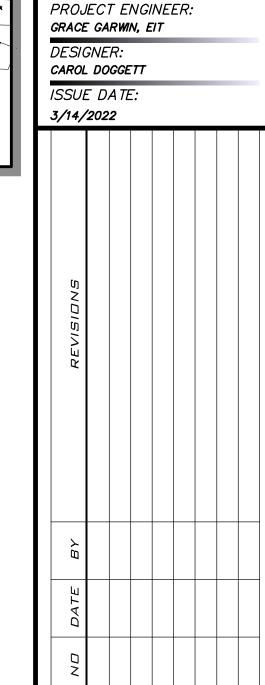
DOUBLE CHECKED PIPE

MATERIAL |









BLUELINE

25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

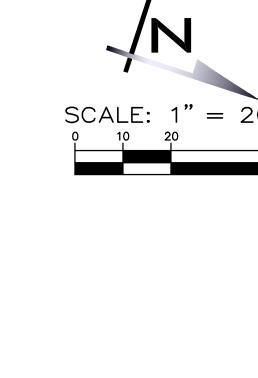
WWW.THEBLUELINEGROUP.COM

PROJECT MANAGER:

AS NOTED

ROB DAHN, PE

SCALE: 1" = 20



SEE SHEET EC-14

RIM 256.79

TBM 'A'
EL=256.05

(10/22/21)

EX CULV 12" CONC IE 246.64 (W)

8" CONC IE 248.16 (S) 10" CONC IN (W) 10" CONC OUT (E) __CTR. CHANNEL 247.84

CITY OF MERCER ISLAND MONUMENT 2112
FOUND TACK IN PLUG IN 3/4"

ELEVATION: 256.05 (HELD FOR BASIS OF VERTICAL POSITION)

IRON PIPE IN CASE, 0.4' BELOW RIM

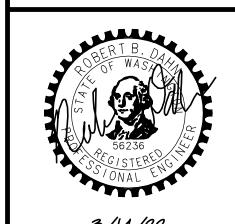
SEDIMENT CATCH BASIN INSERT PER DETAIL,

12" CONC IE 252.47 (S) 12" CONC IE 250.69 (E) 12" CONC IE 250.65 (W)

SHEET EC-01 (TYP)

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 <u>ONE CALL</u> AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



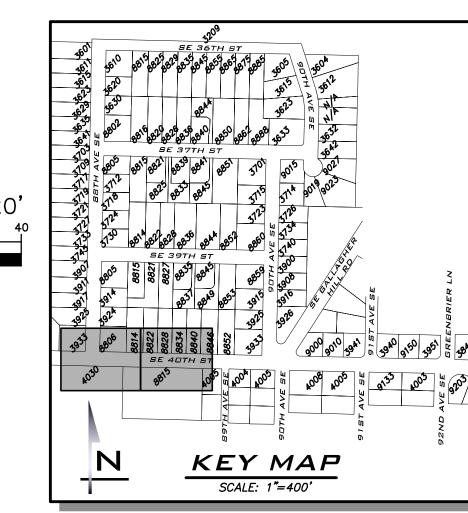
3/14/22

21-303

SHEET NAME: EC-05

sнт <u>11</u> ог <u>59</u>

4005 89TH AVE SE SCALE: 1" = 20'





PROJECT ENGINEER:
GRACE GARWIN, EIT

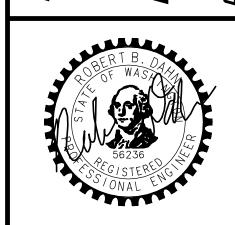
DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

D DATE BY REVISIONS

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PLAN - SE 40TH ST 2022 WATER SYSTEM PROVEMENTS PROJECT



3/14/22

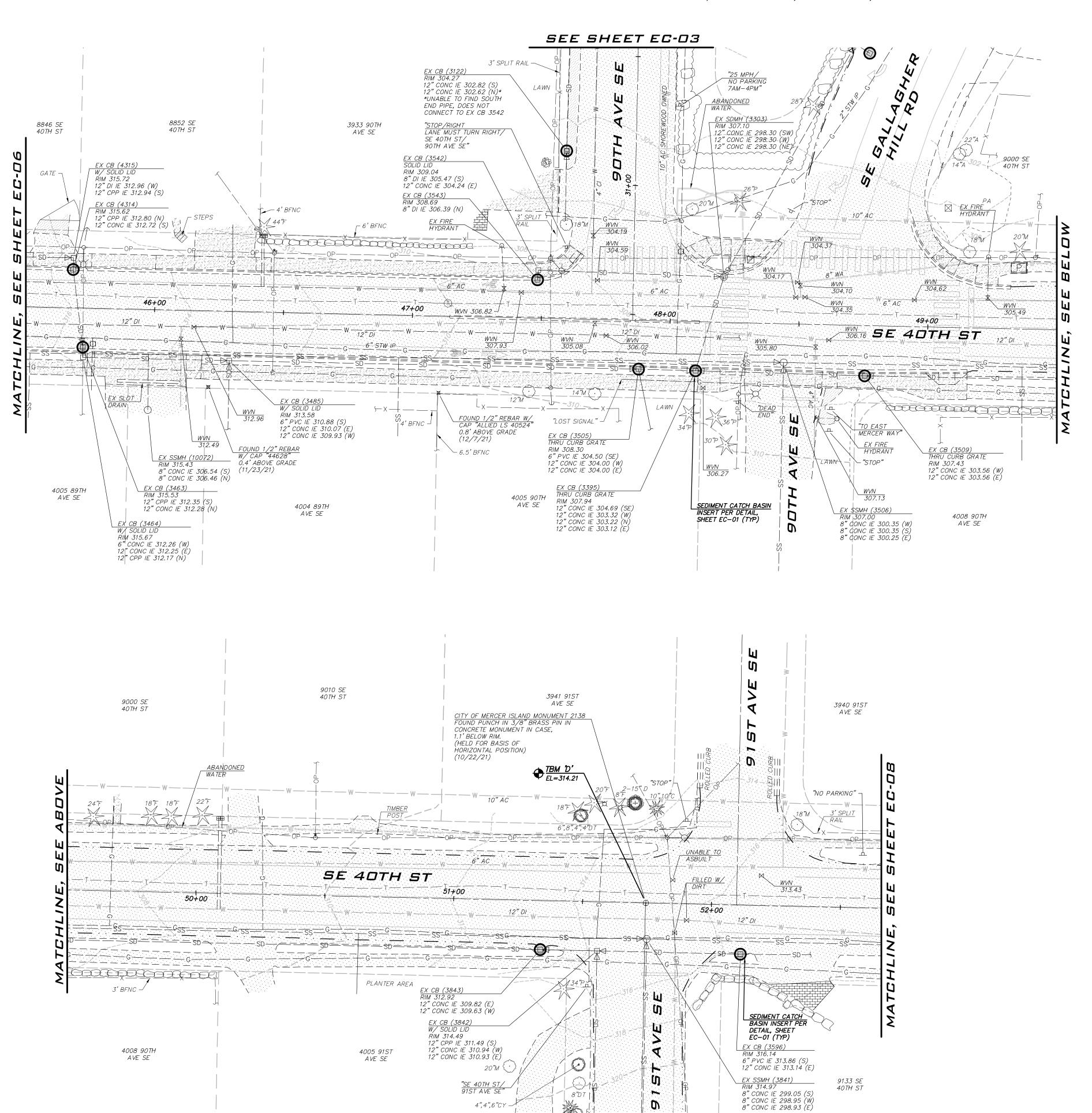
JOB NUMBER: **21-303**

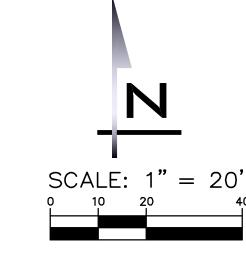
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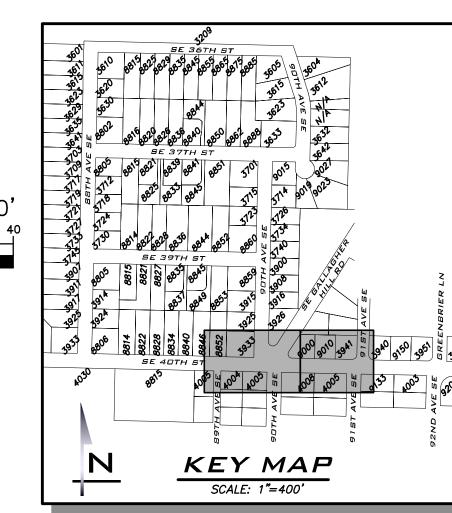
внт <mark>12</mark> ог <mark>59</mark>

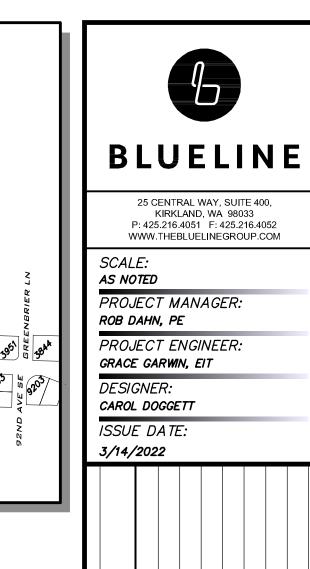
EXISTING UTILITY NOTE

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LAN - SE 40TH ST

Z WATER SYSTEM

VEMENTS PROJECT

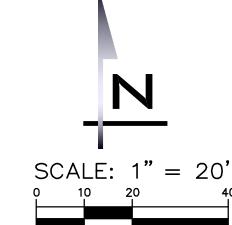
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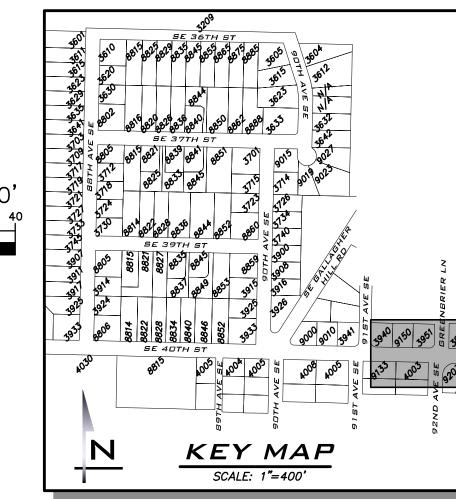
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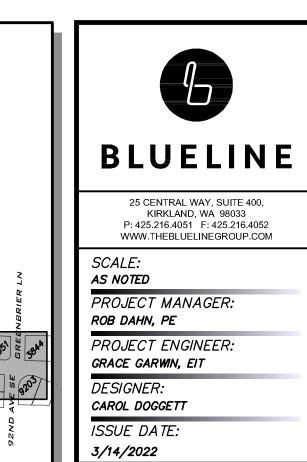
JOB NUMBER: 21-303

EC-07

sнт <u>13</u> of <u>59</u>







UTILTIES ON THIS SHEET ARE SHOWN PER CITY OF MERCER ISLAND GIS AND ARE NOT SURVEYED.

NO DATE BY REVISIONS

PLAN - SE 40TH ST 22 WATER SYSTEM

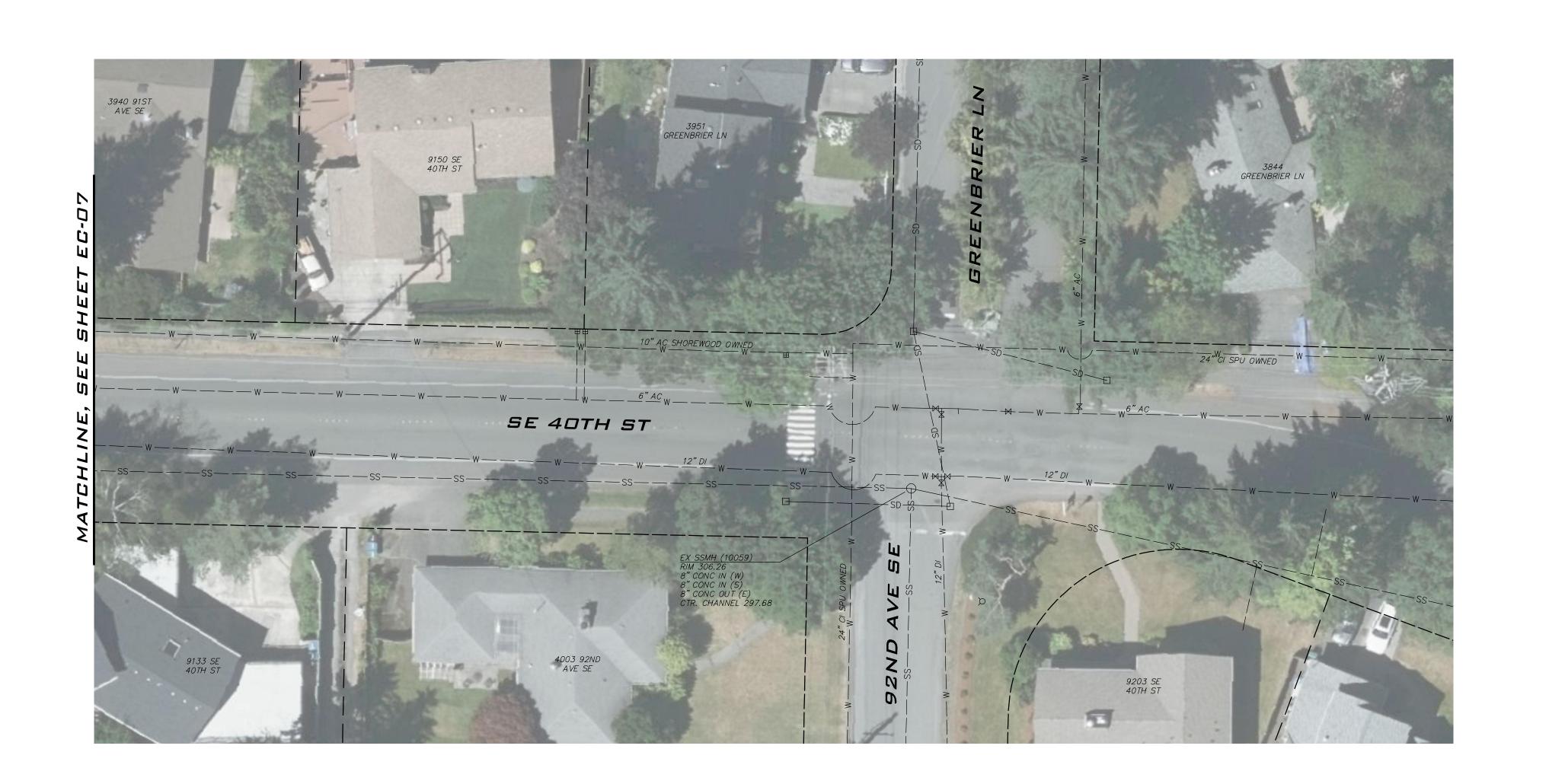
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JOB NUMBER: **21-303**

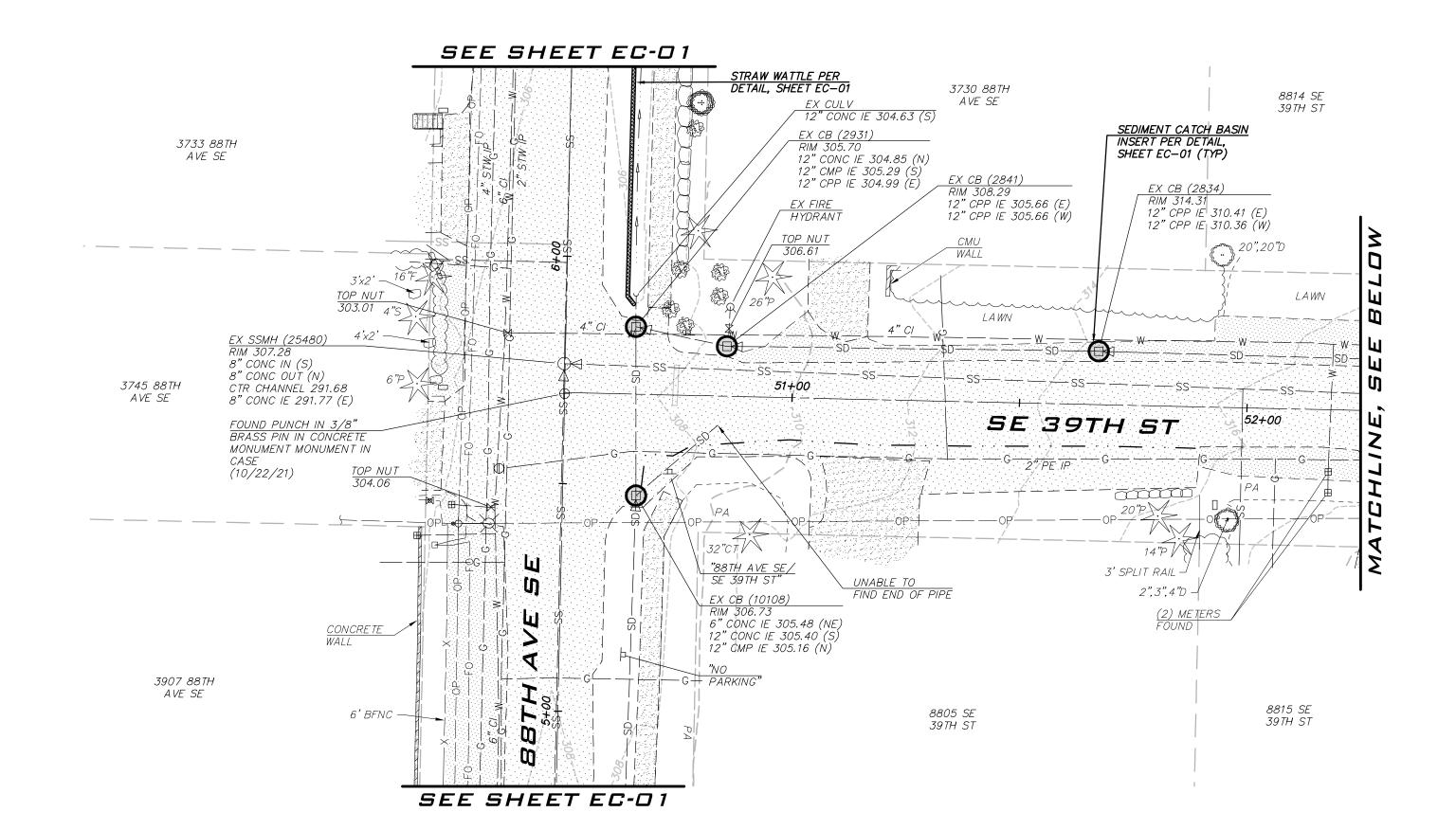
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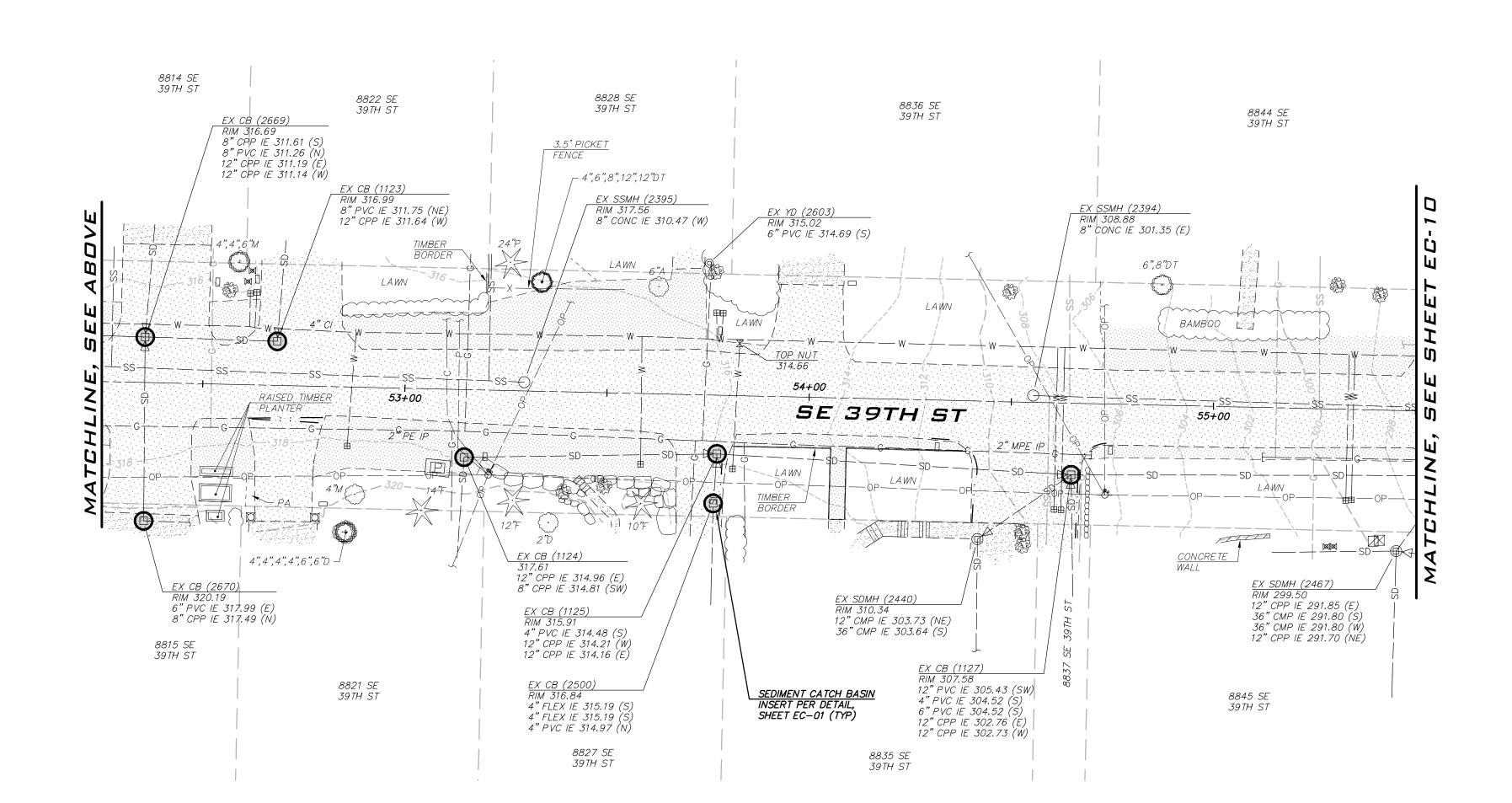
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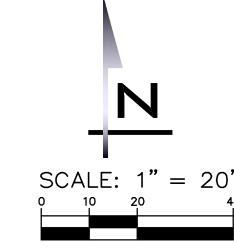


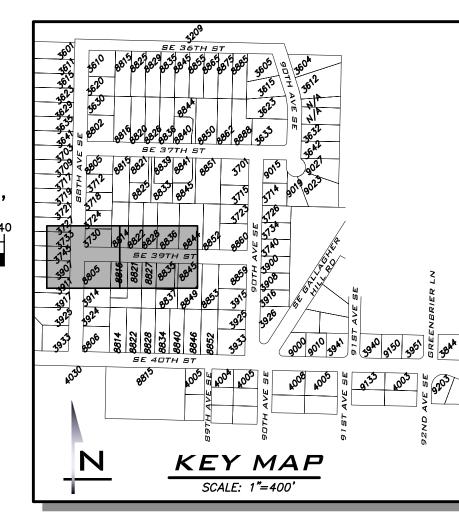
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KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

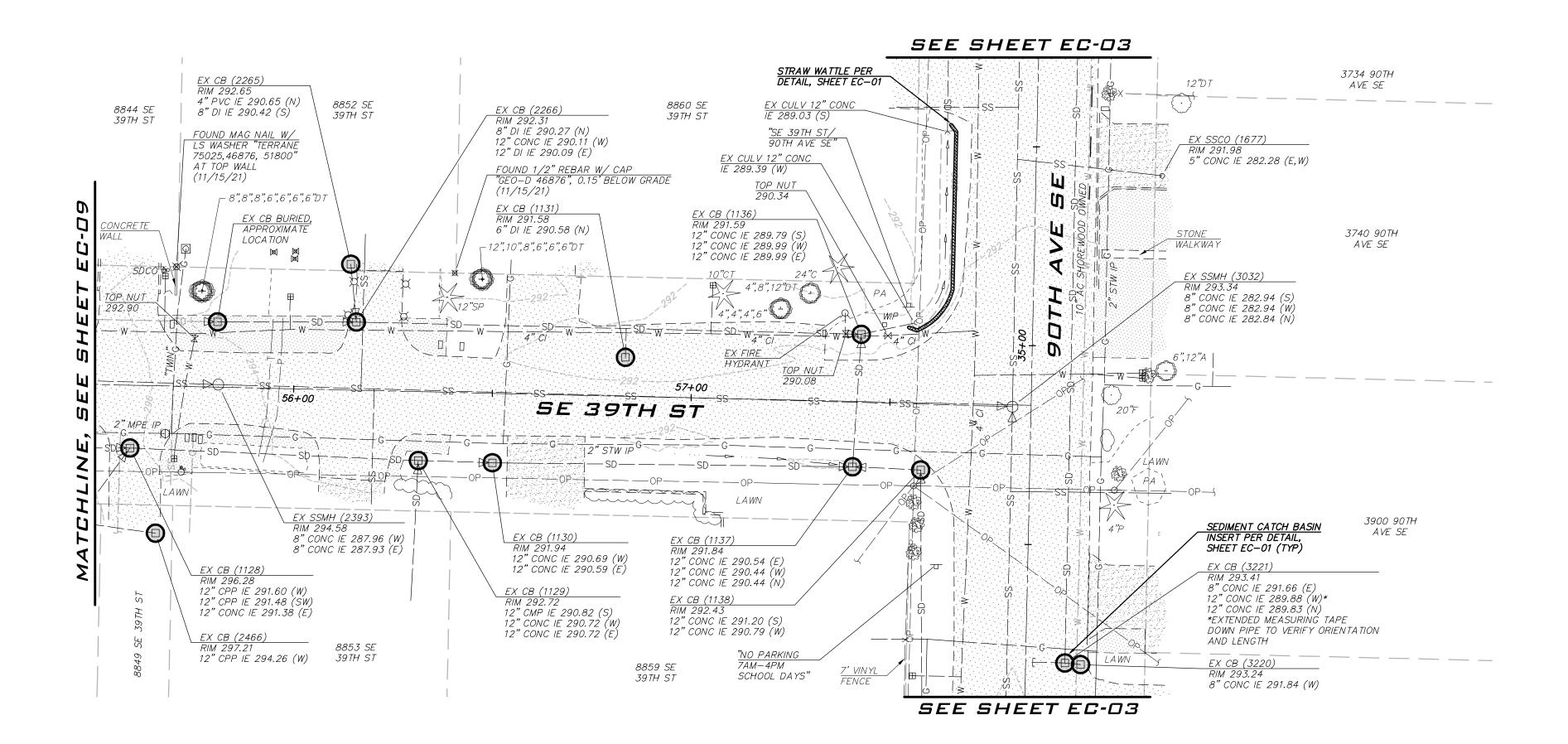
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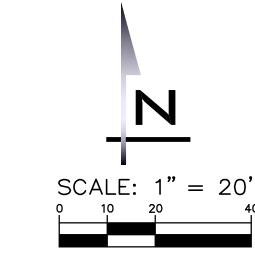
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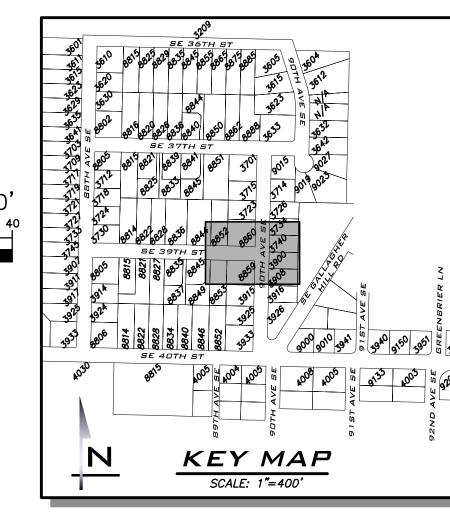
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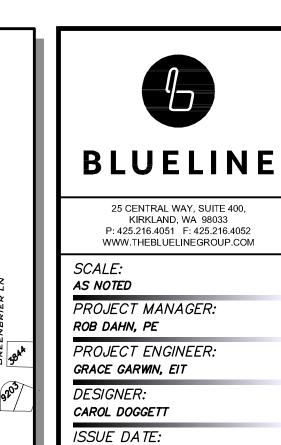
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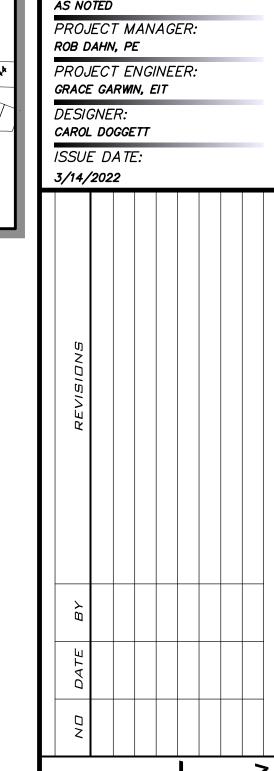
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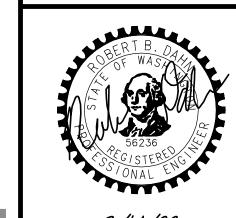












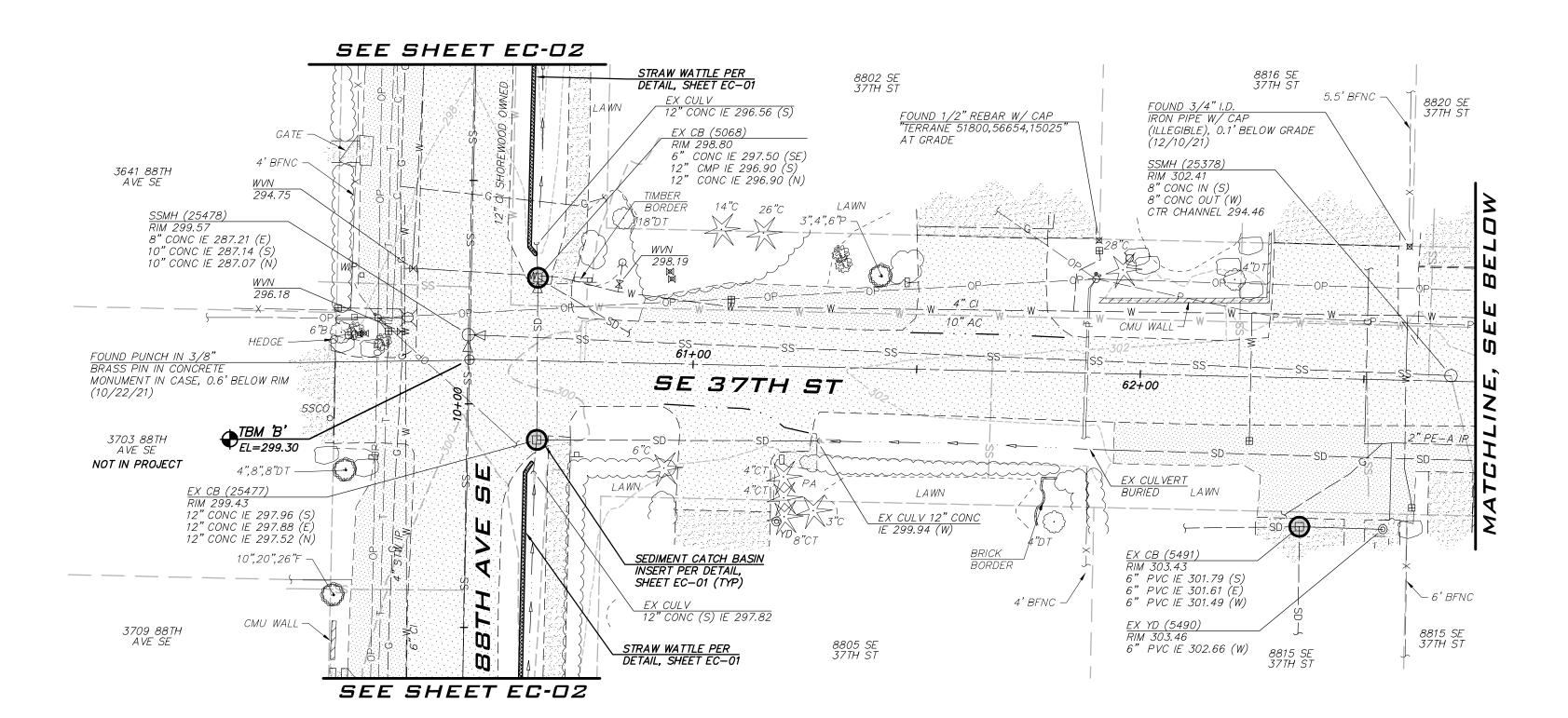
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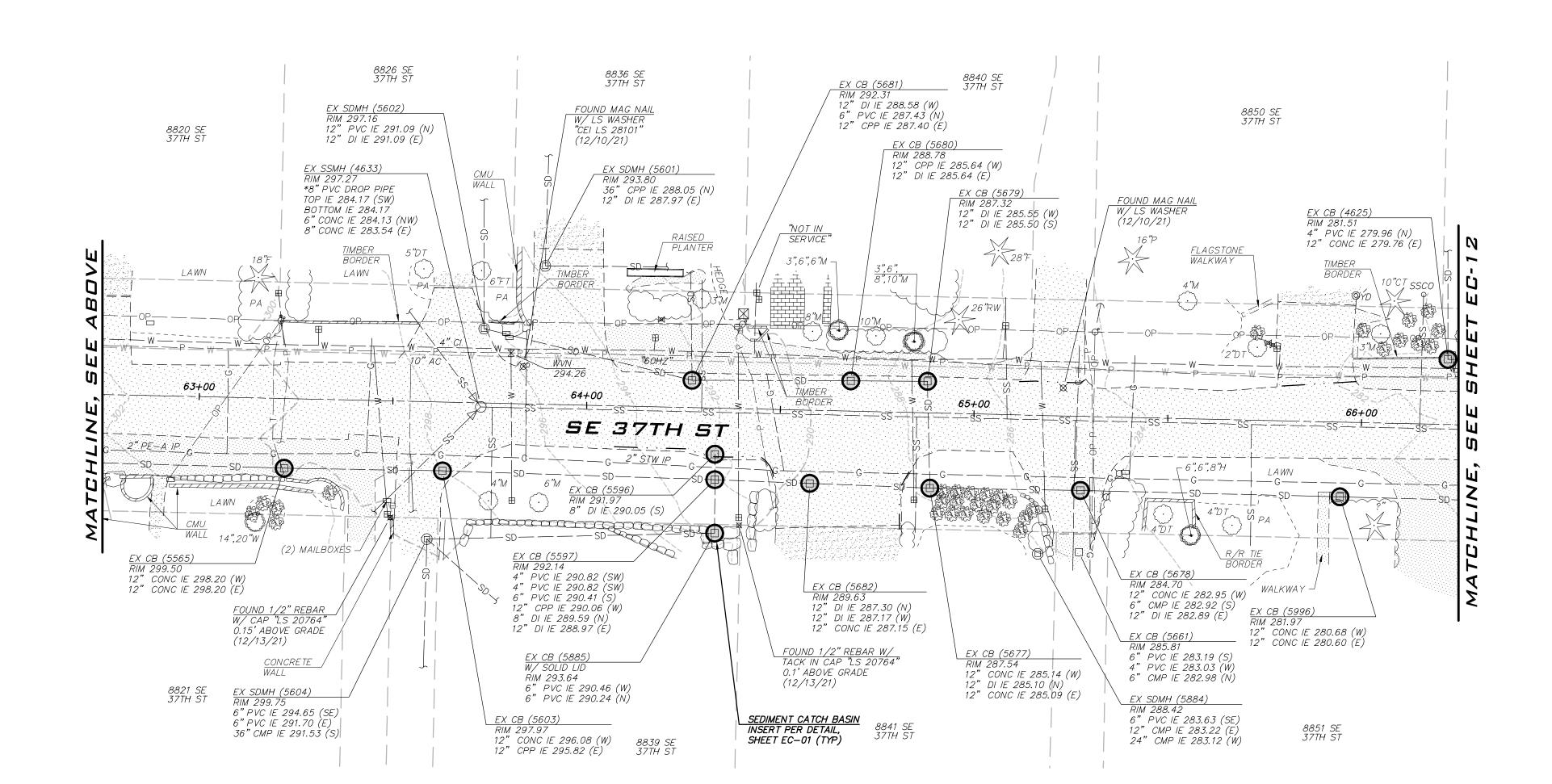
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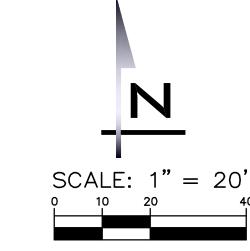
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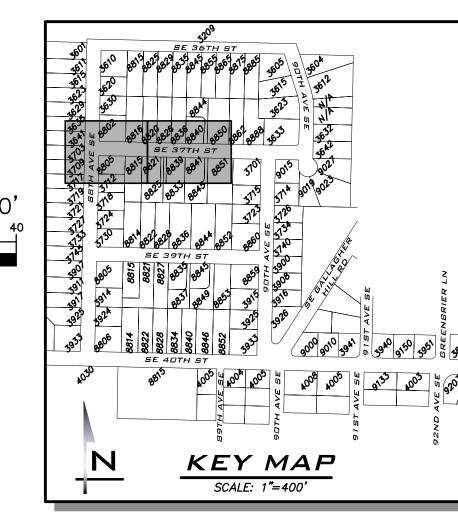
sнт **16** оғ **59**

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WWW.THEBLUELINEGROUP.COM AS NOTED

PROJECT MANAGER: ROB DAHN, PE PROJECT ENGINEER:

GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

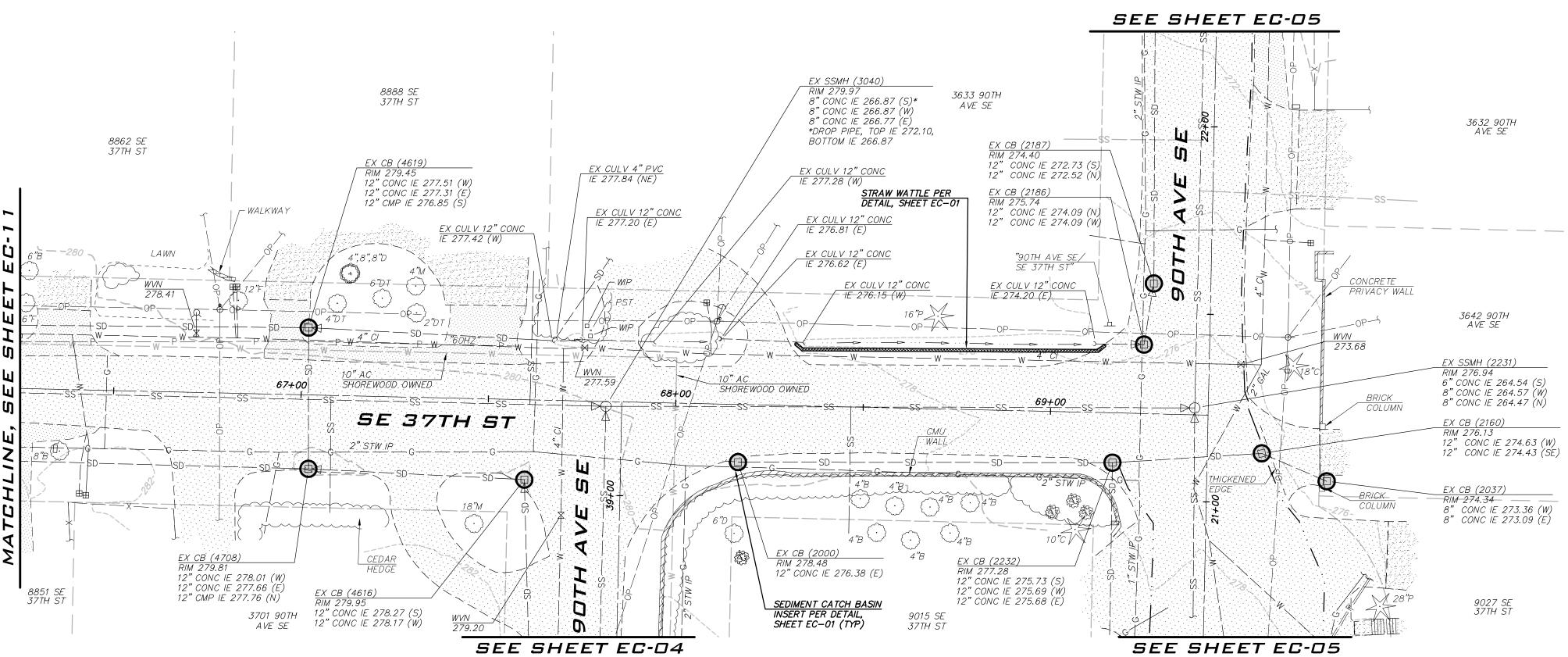
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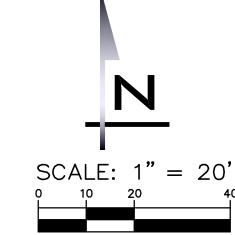
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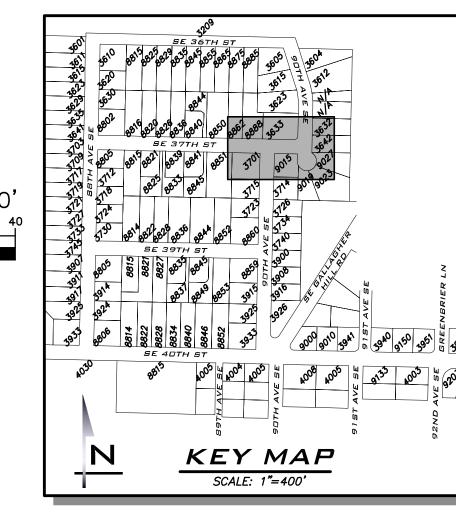
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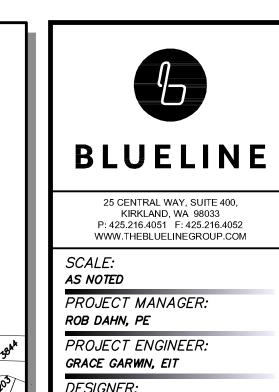
sнт <u>17</u> ог <u>59</u>

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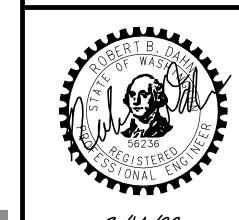








C	DESIGNER: CAROL DOGGETT										
	ISSUE DATE: 3/14/2022										
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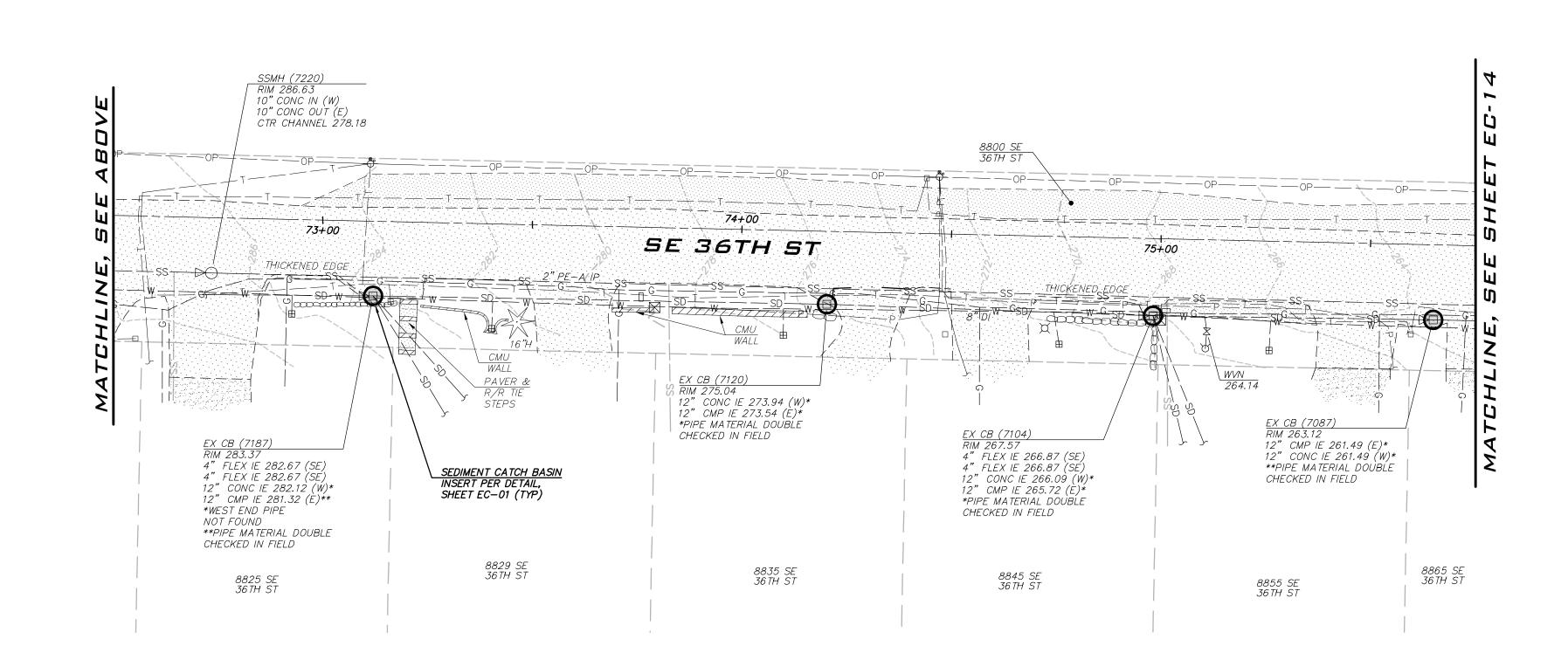
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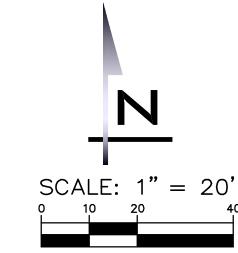
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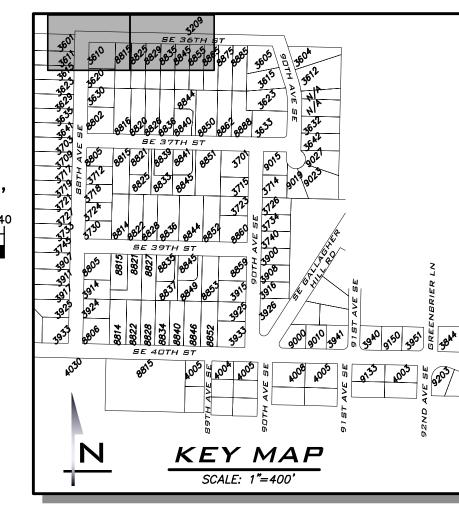
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sнт **18** ог **59**

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

SCALE: AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

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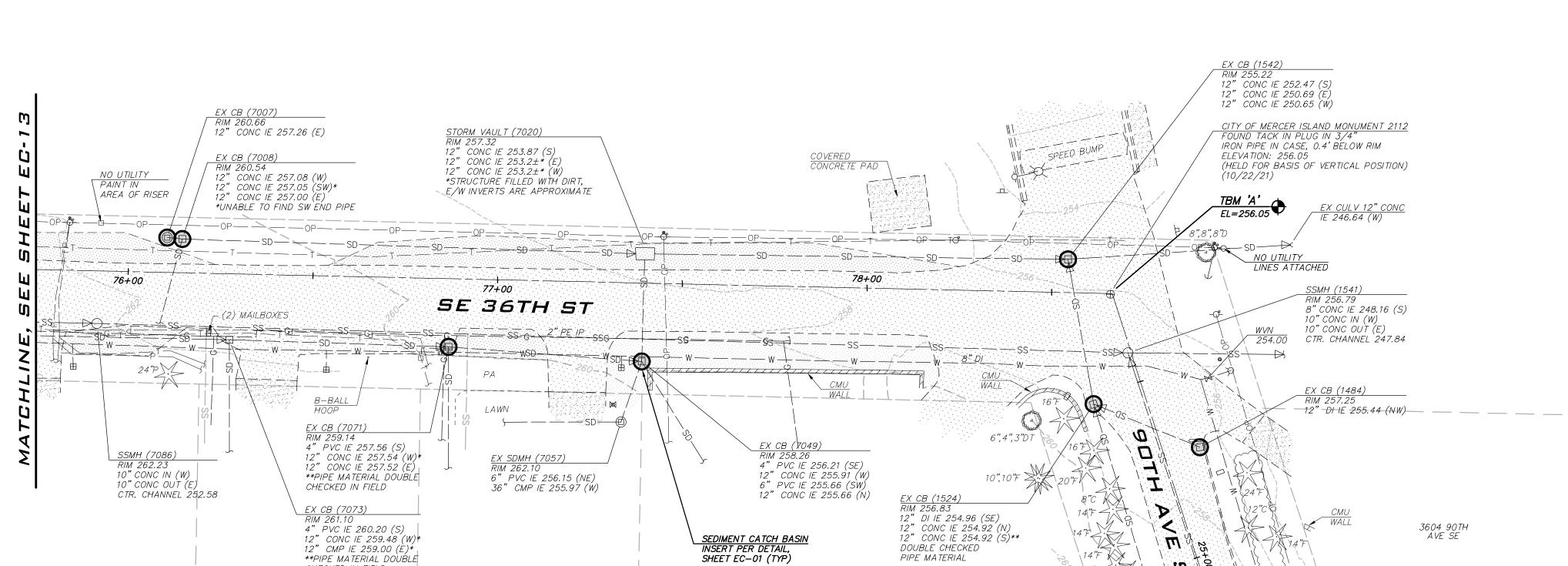
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SHEET NAME: EC-13

3/14/22

21-303

sнт **19** оғ **59**

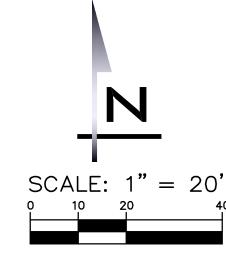


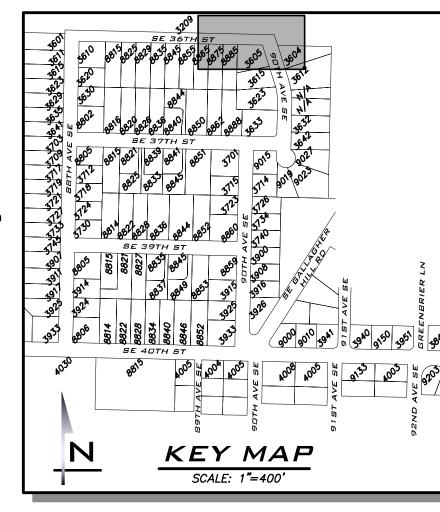
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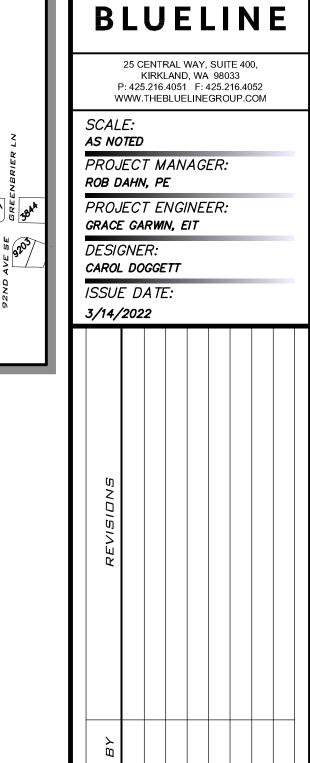
SEE SHEET EC-05

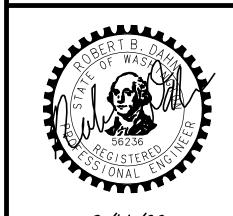
**PIPE MATERIAL DOUBLE CHECKED IN FIELD

8885 SE 36TH ST









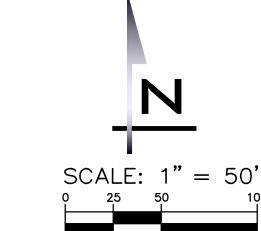
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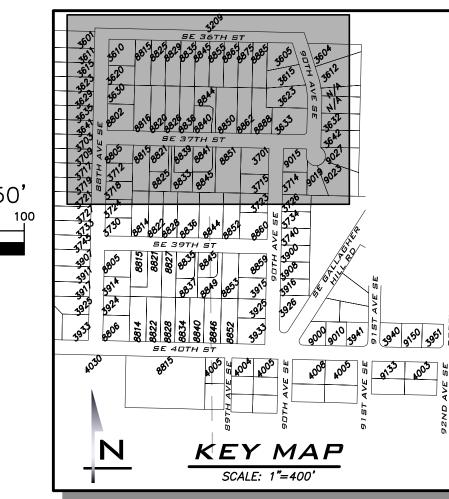
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EC-14

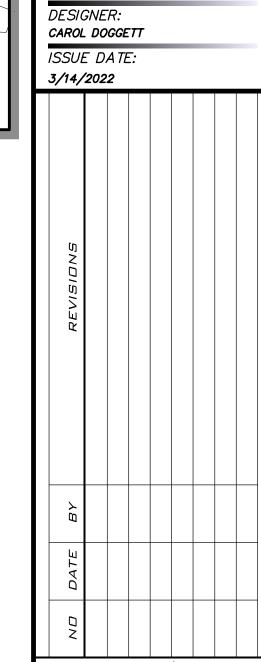
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CONTRACTOR TO POTHOLE LOCATIONS SHOWN. POTHOLING OF ALL SERVICES SHALL BE INCIDENTAL TO OTHER ITEMS. POTHOLING FOR PROPOSED FIRE HYDRANT LEAD UTILITY CROSSINGS, AIR/VAC AND BLOWOFFS (MAINS OR SERVICES) SHALL BE INCIDENTAL TO INSTALLATION.



BLUELINE

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

PROJECT MANAGER:

PROJECT ENGINEER:
GRACE GARWIN, EIT

SCALE: AS NOTED

ROB DAHN, PE

CONTRACTOR PAID
POTHOLING PLAN

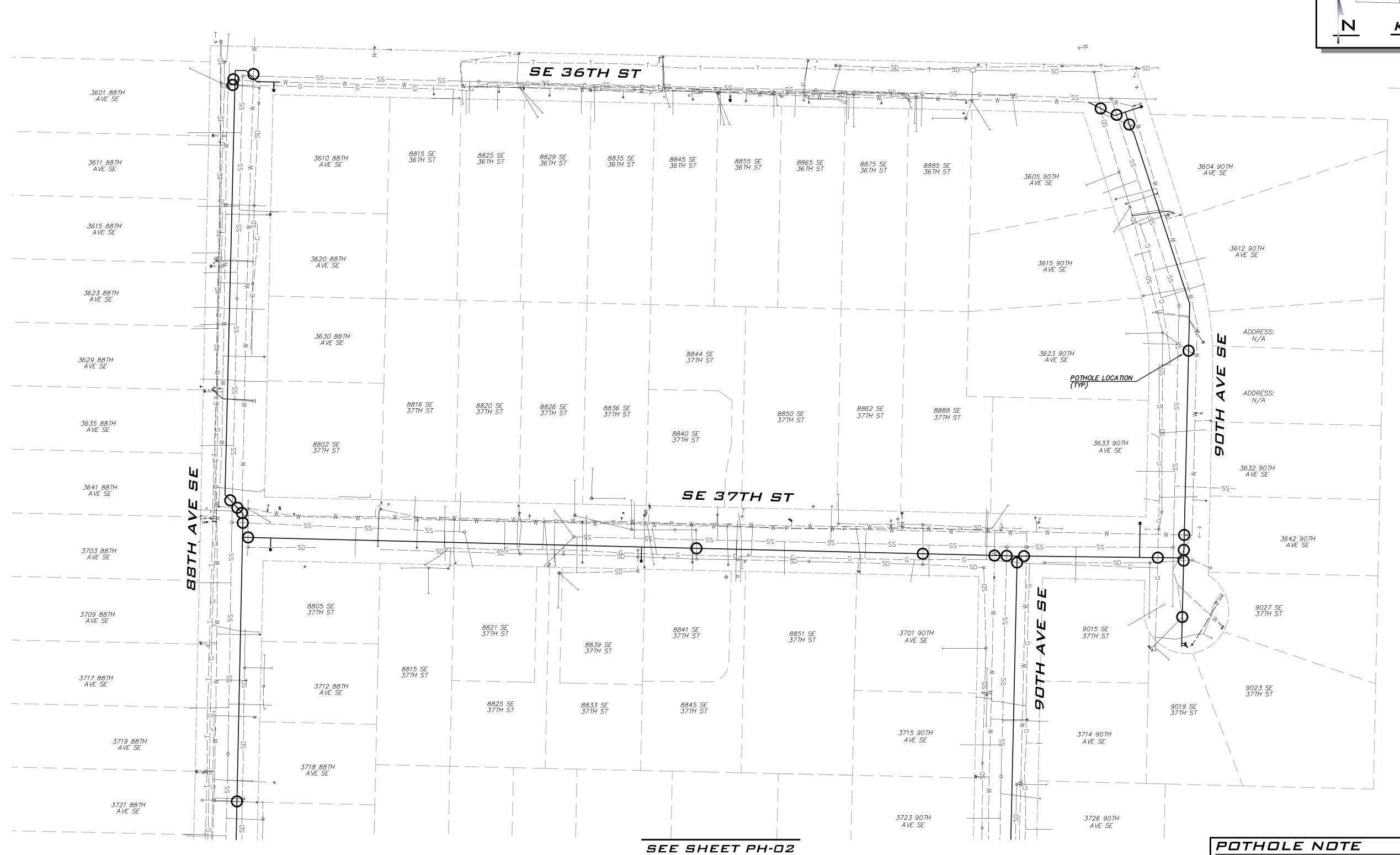
J22 WATER SYSTEM
ROVEMENTS PROJECT

BERT B. D. OF WAS JULY SECOND
3/14/22

JOB NUMBER: **21-303**

PH-01

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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: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

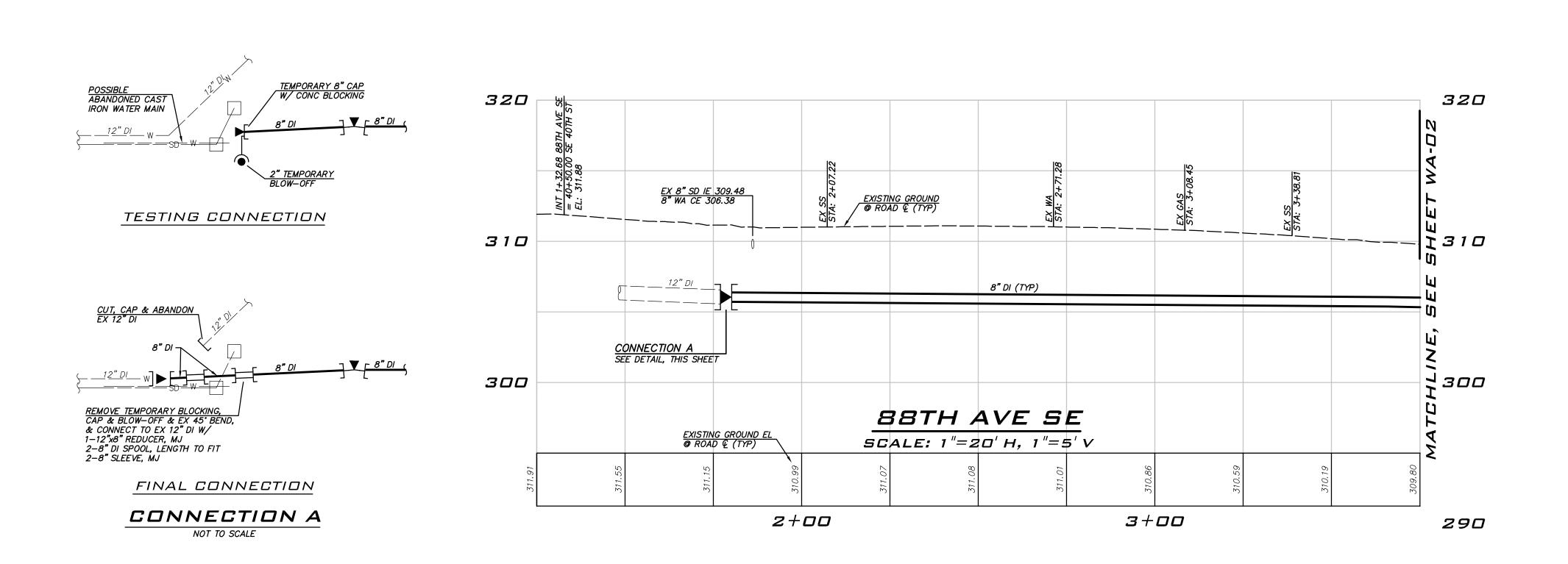
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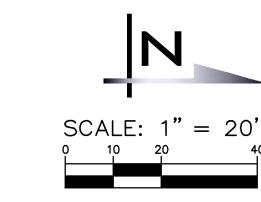
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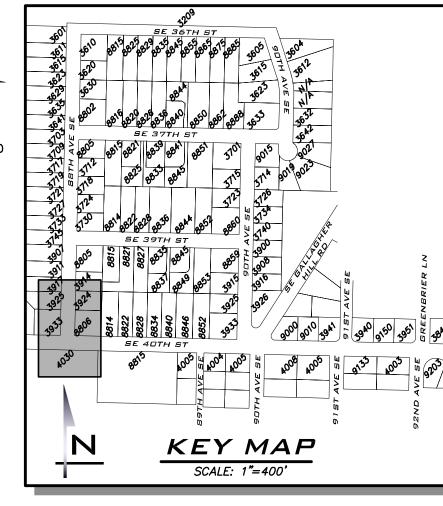
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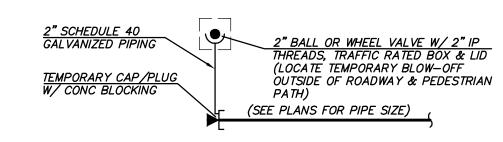
PH-02

sнт **22** оғ **59**









2" TEMPORARY BLOW-OFF

NOT TO SCALE

CONSTRUCTION NOTES

- 1. 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".
- 3. COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
- 4. 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)
- 2 INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- 3 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)
- 5 CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE.
- 6 CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
- 7 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."
- 9 METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
- (10) EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
- 11 REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
- 12 INTERCEPT EXISTING 1.5" SHORT SIDE SERVICE. CUT EXISTING SERVICE LINE AT NEW MAIN. CONNECT TO NEW MAIN PER STD DETAIL W-14.
- (13) COMPLETE SERVICE INSTALLATION PRIOR TO ABANDONMENT.

EXISTING UTILITY NOTE

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	WWW.THEBLUELINEGROUP.C									
	PROJECT MANAGER: ROB DAHN, PE									
PROJECT ENGINEER: GRACE GARWIN, EIT										
	DESIGNER: CAROL DOGGETT									
ISSUE DATE: 3/14/2022										
	REVISIONS									
	# # # !!	SCAL AS NO PROJ ROB D PROJ GRACE DESIC CAROL ISSUE 3/14/	SCALE: AS NOTED PROJECT ROB DAHN PROJECT GRACE GA DESIGNE CAROL DO ISSUE D. 3/14/202	SCALE: AS NOTED PROJECT M ROB DAHN, PE PROJECT EI GRACE GARWII DESIGNER: CAROL DOGGE ISSUE DATE 3/14/2022	SCALE: AS NOTED PROJECT MAN. ROB DAHN, PE PROJECT ENGI GRACE GARWIN, E DESIGNER: CAROL DOGGETT ISSUE DATE: 3/14/2022	SCALE: AS NOTED PROJECT MANAGE ROB DAHN, PE PROJECT ENGINEE GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT ISSUE DATE: 3/14/2022	SCALE: AS NOTED PROJECT MANAGER: ROB DAHN, PE PROJECT ENGINEER: GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT ISSUE DATE: 3/14/2022			

22 WATER SYSTEM OVEMENTS PROJECT

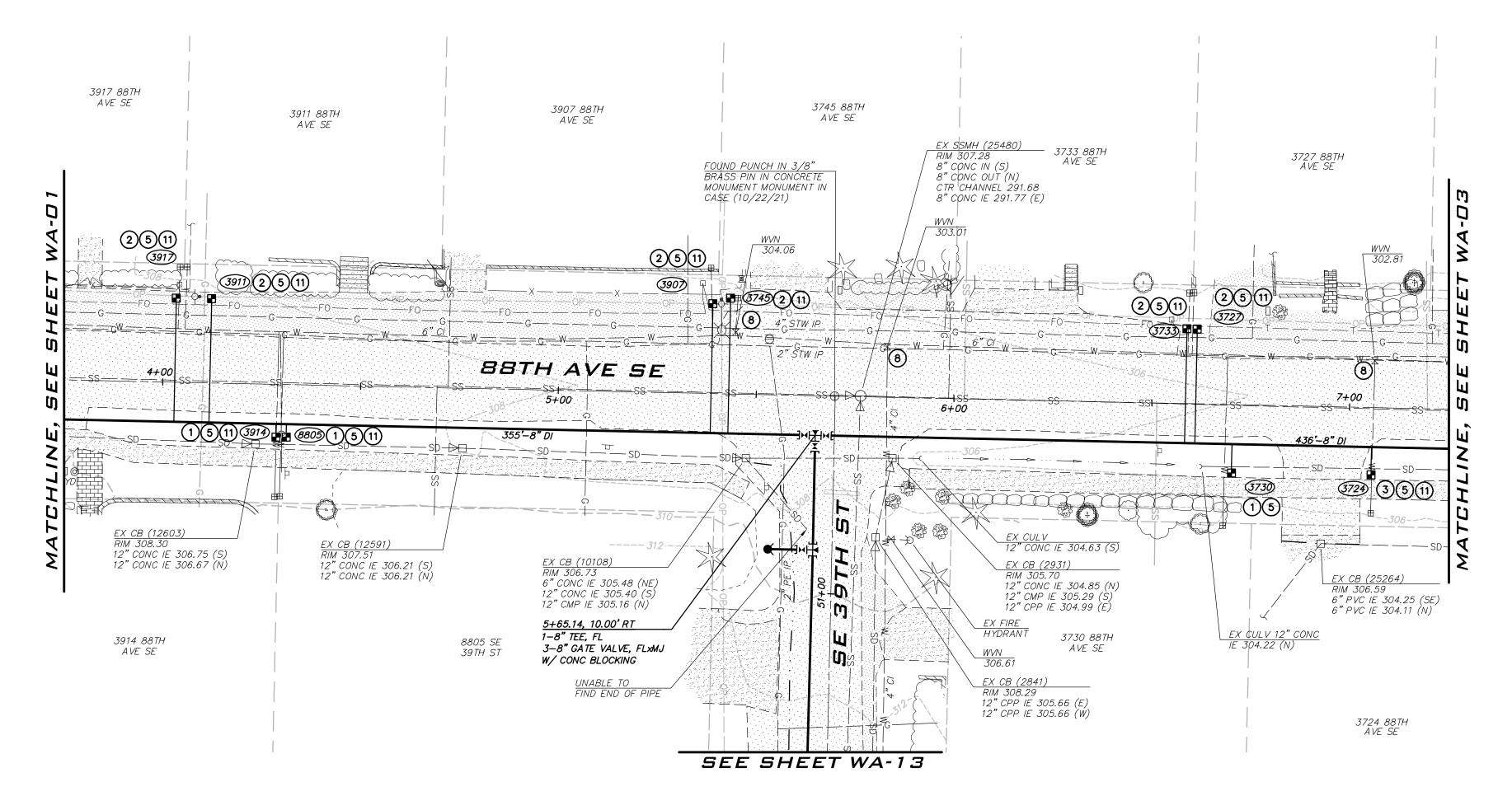


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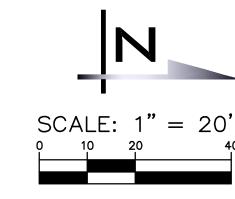
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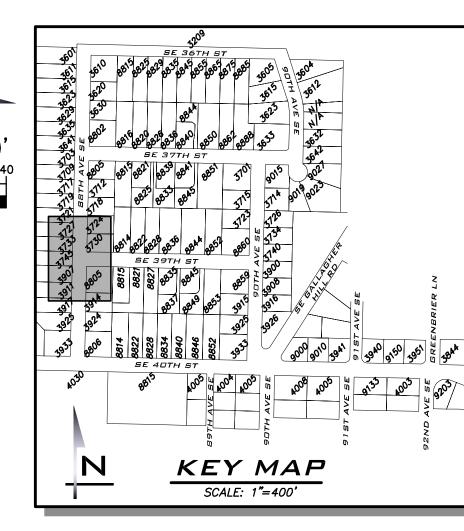
SHEET NAME:

23 of 59









CONSTRUCTION NOTES

- 1. 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.
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 INSTALL ETHAFOAM 220 PAD TO PREVENT UTILITIES FROM BEARING ON
 WATER MAIN WHERE SEPARATION IS LESS THAN 6".
- 3. COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
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BLUELINE

25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

AS NOTED
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

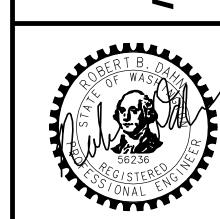
DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

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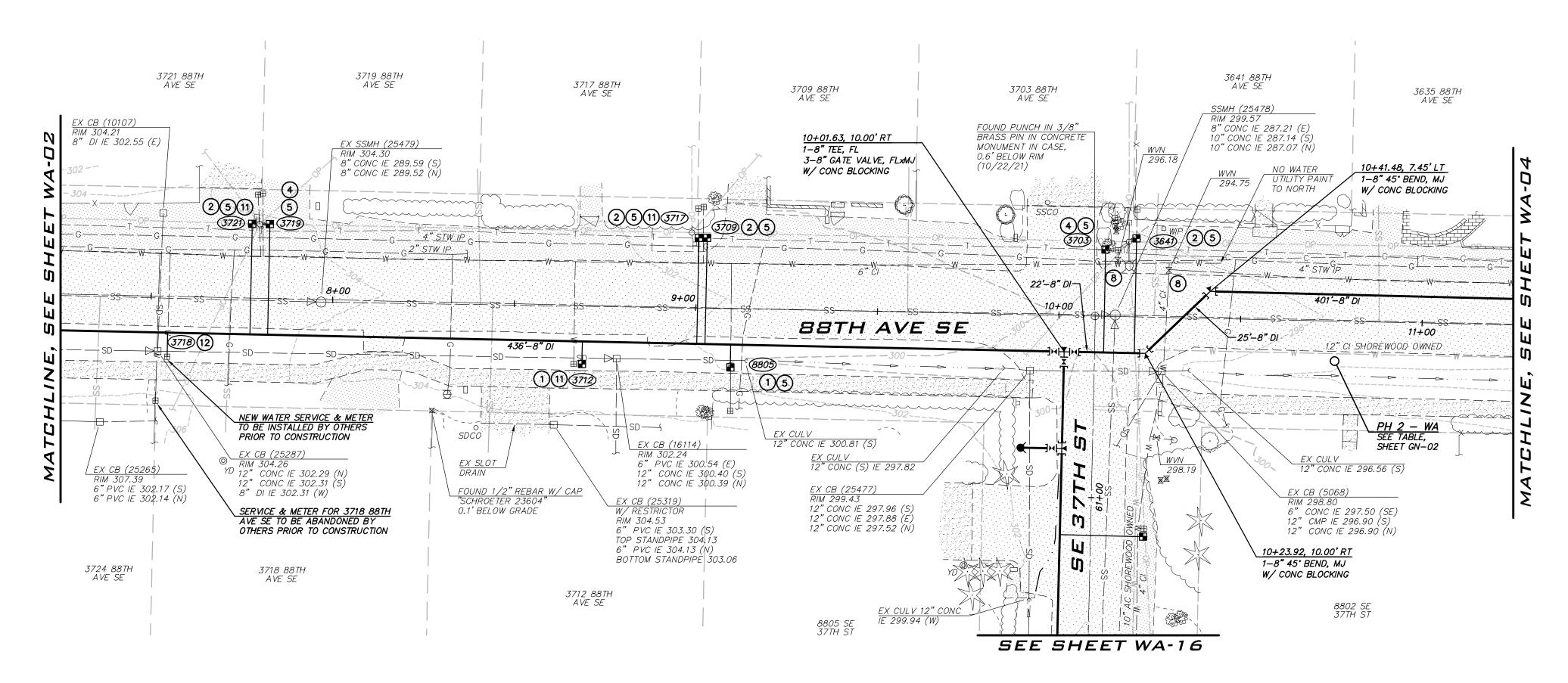


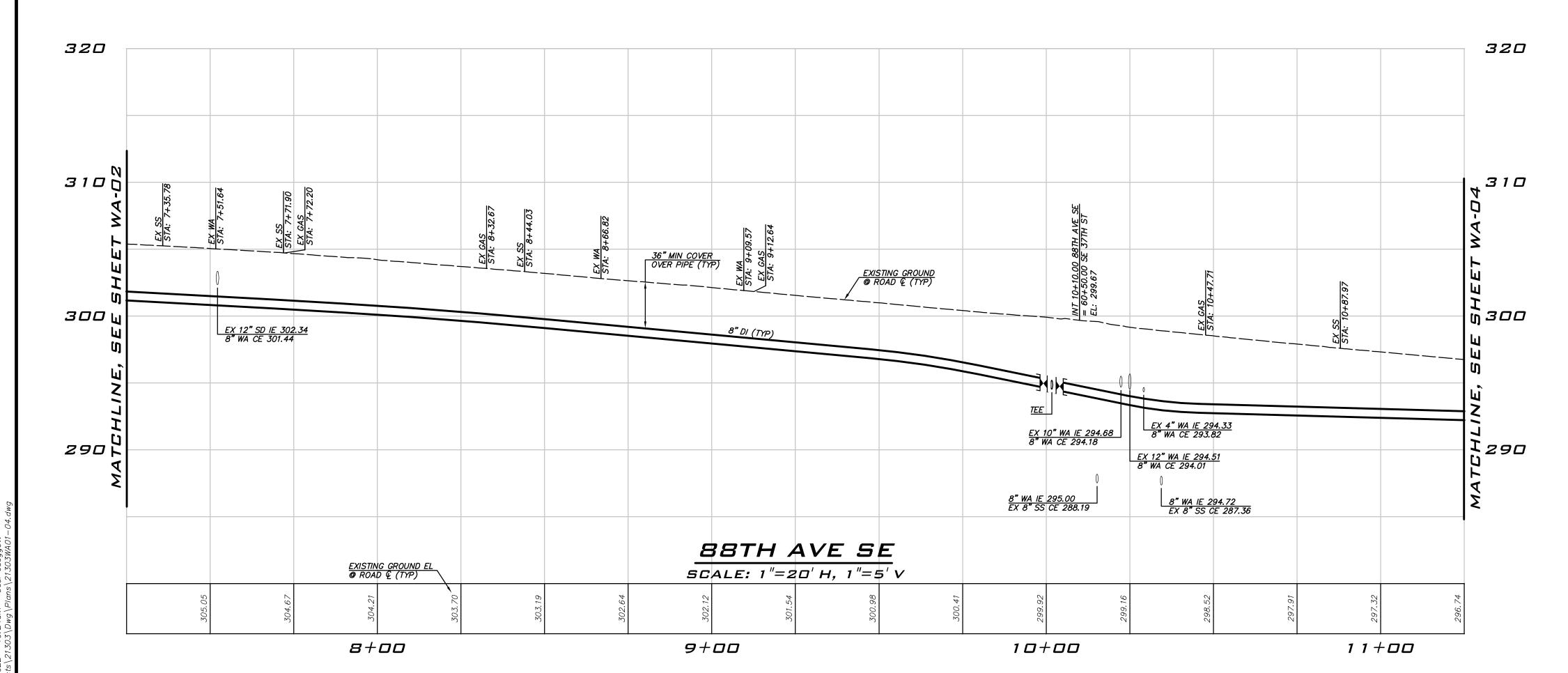
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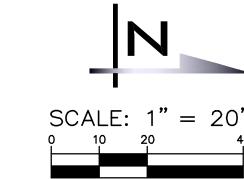
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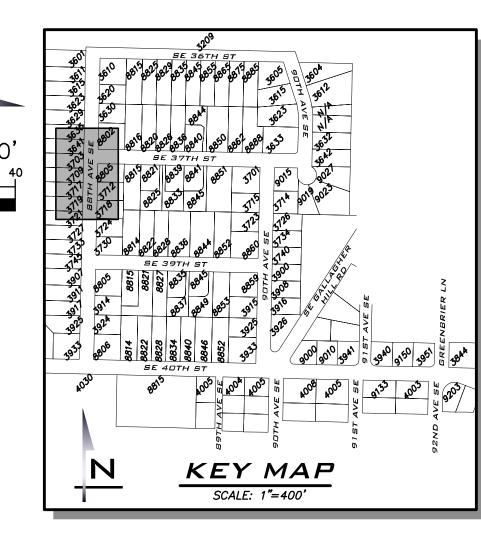
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WA-DZ

<u>24</u> of <u>59</u>









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AS NOTED PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

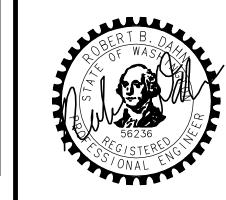
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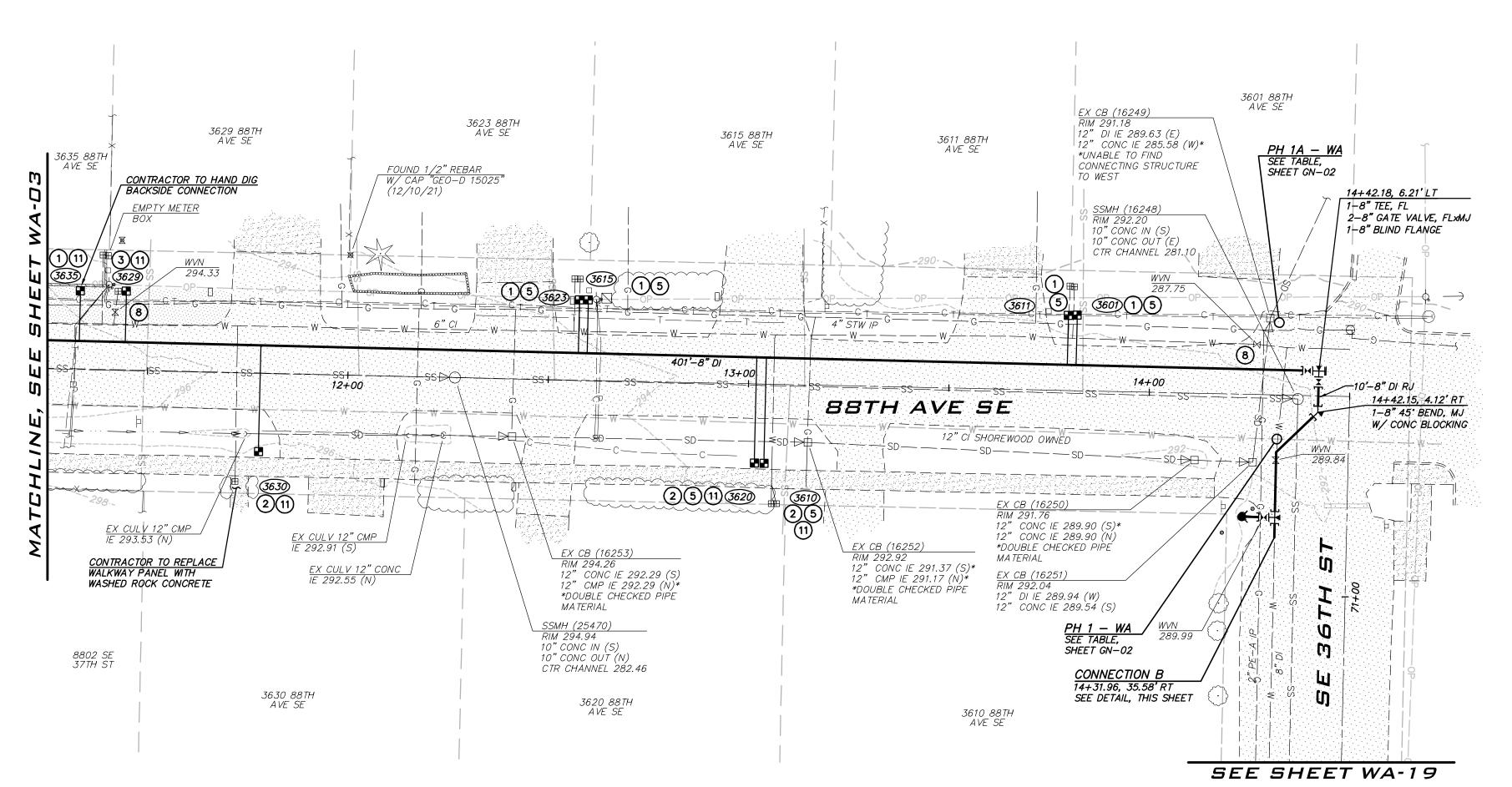


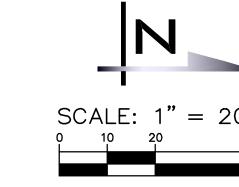
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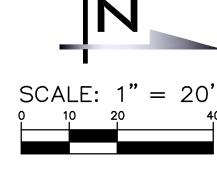
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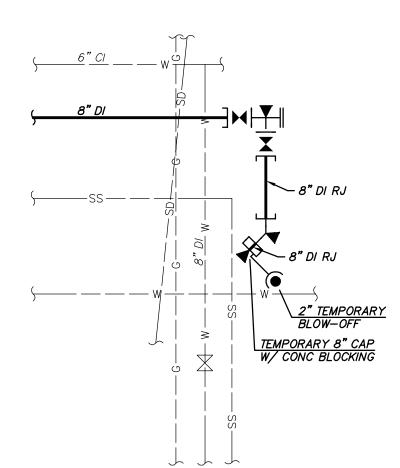
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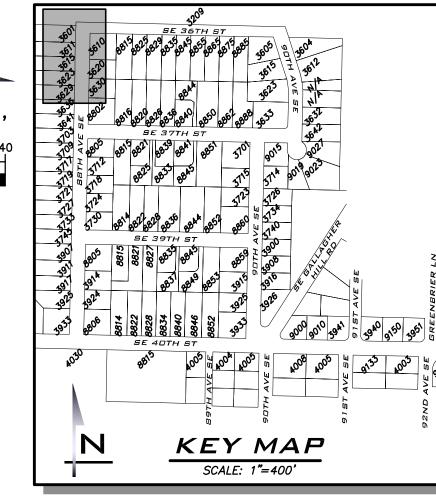
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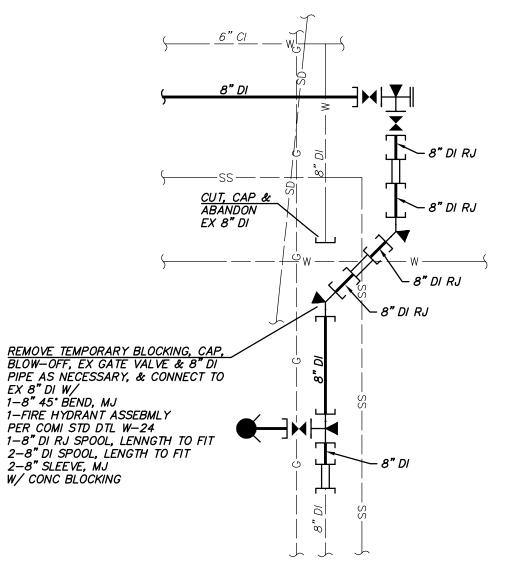








TESTING CONNECTION



EX 8" DI W/

FINAL CONNECTION

CONNECTION B NOT TO SCALE

FIRE HYDRANT ASSEMBLY, INCLUDING VALVE, WILL BE PAID UNDER BID ITEM 20, INSTALL NEW FIRE HYDRANT ASSEMBLY.

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PROJECT MANAGER:

PROJECT ENGINEER: GRACE GARWIN, EIT

AS NOTED

ROB DAHN, PE

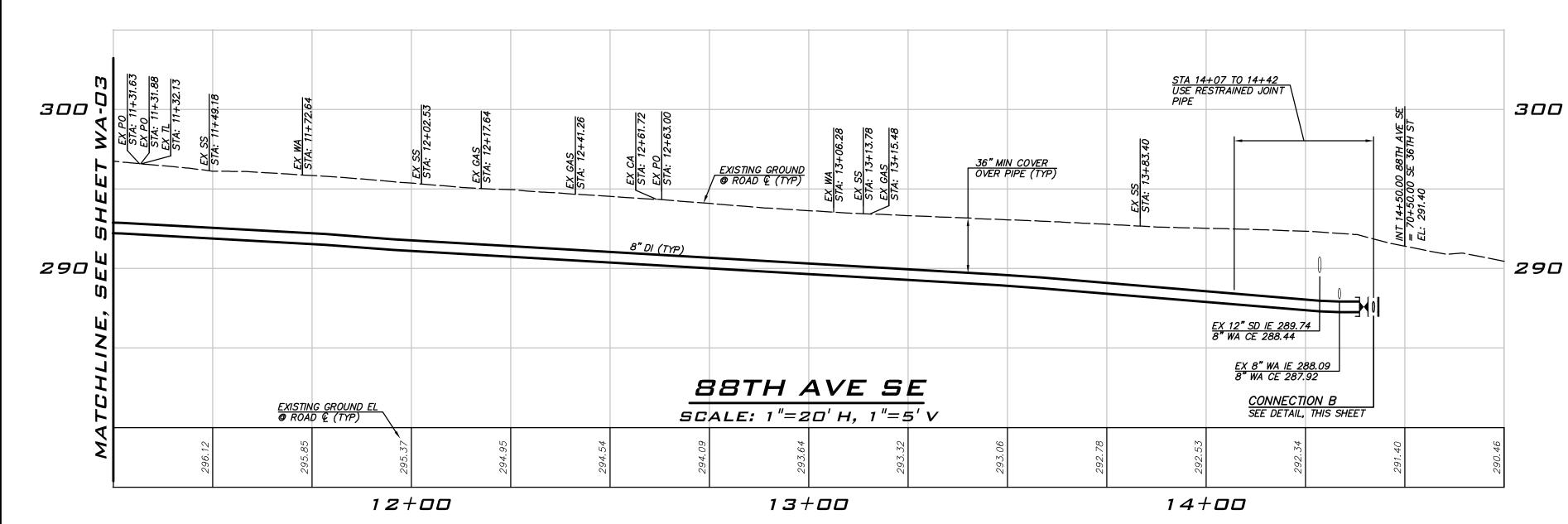
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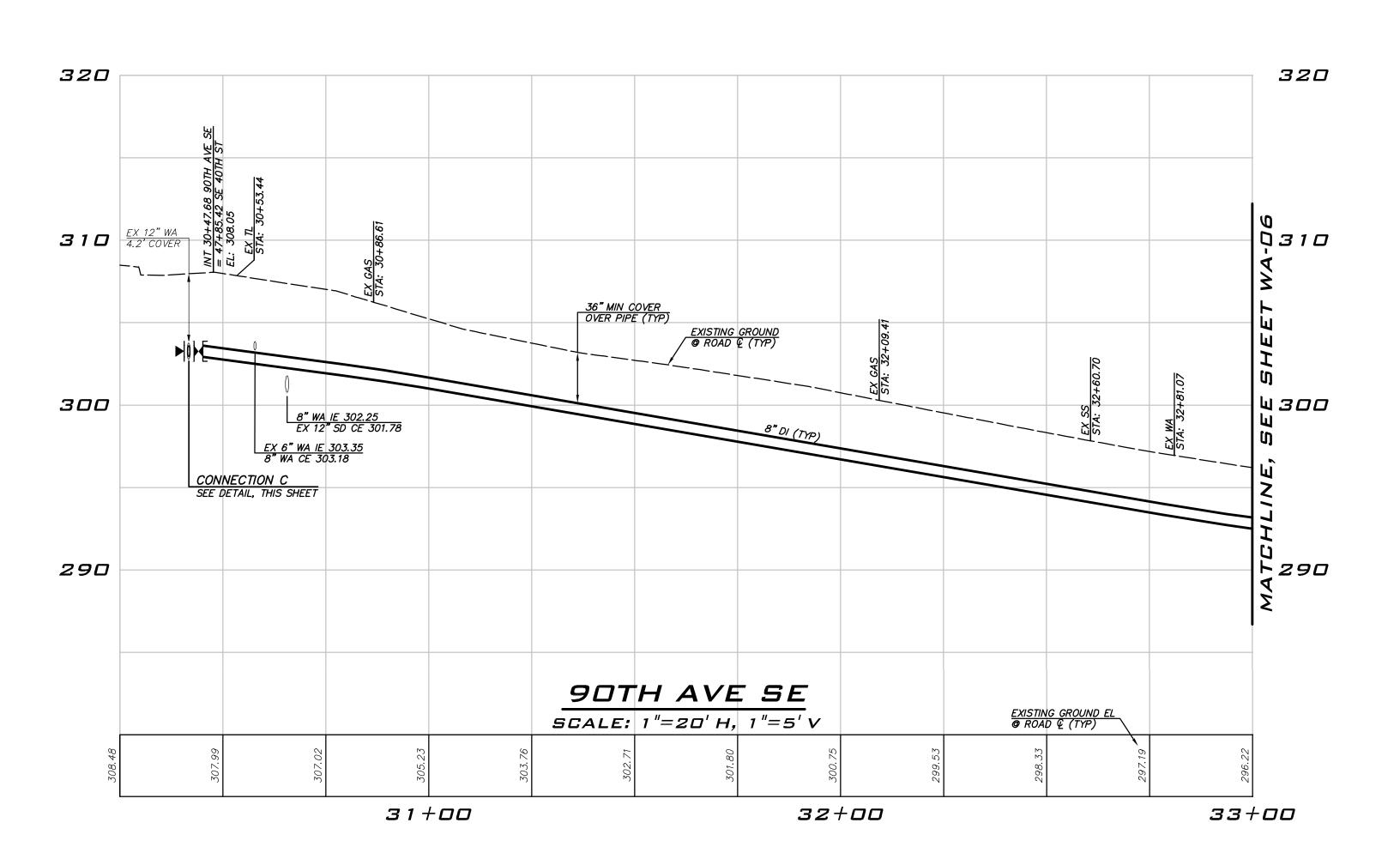
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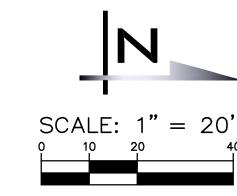
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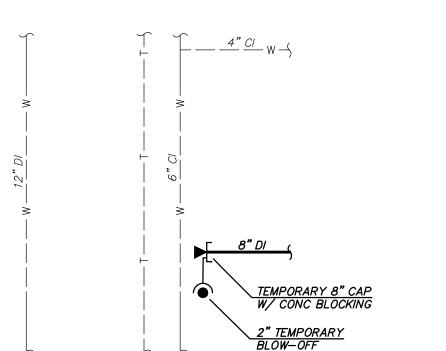
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<u>26</u> of <u>59</u>



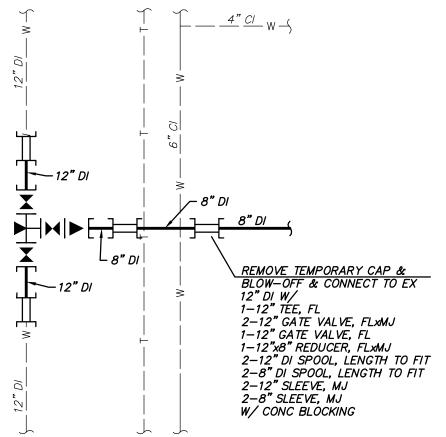






KEY MAP SCALE: 1"=400'

TESTING CONNECTION



FINAL CONNECTION

CONNECTION C NOT TO SCALE

GATE VALVES SHOWN IN FINAL CONNECTION C DETAIL WILL BE PAID UNDER CONNECTION C TO EXISTING WATER SYSTEM BID ITEM 31.

CONSTRUCTION NOTES

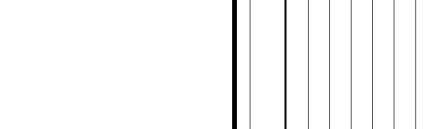
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ROB DAHN, PE

DESIGNER:

CAROL DOGGETT

ISSUE DATE:

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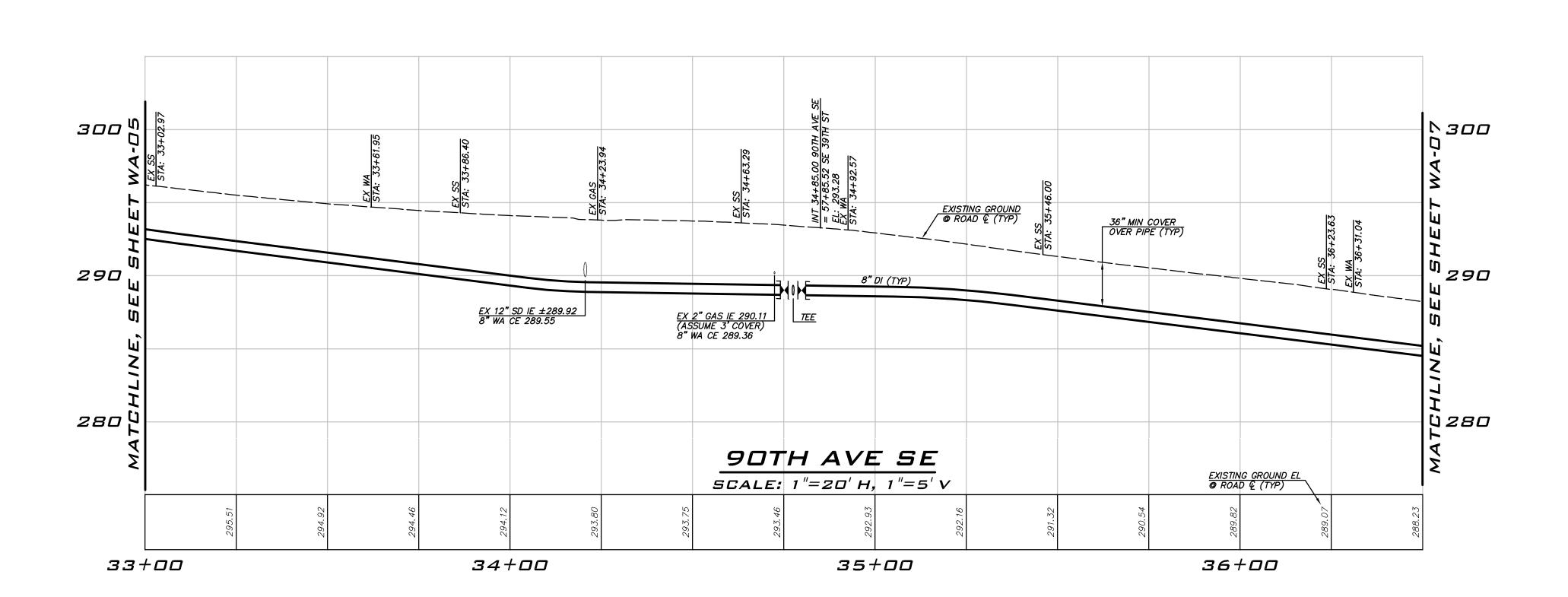


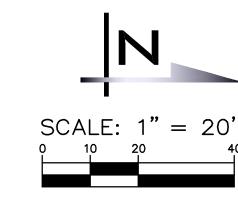
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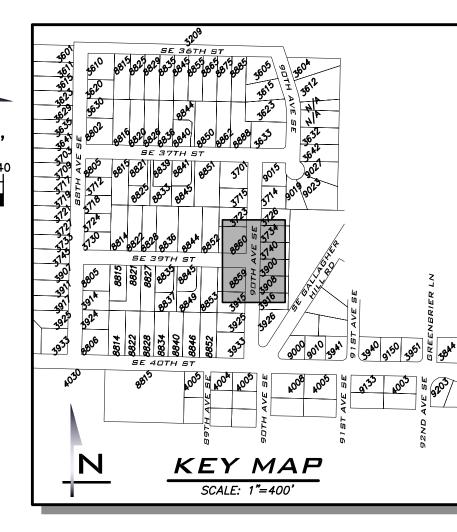
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SHEET NAME: WA-05

27 of 59







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3/14/2022

DESIGNER: CAROL DOGGETT ISSUE DATE:

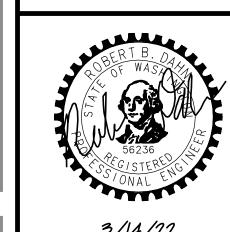
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	REVISIONS										

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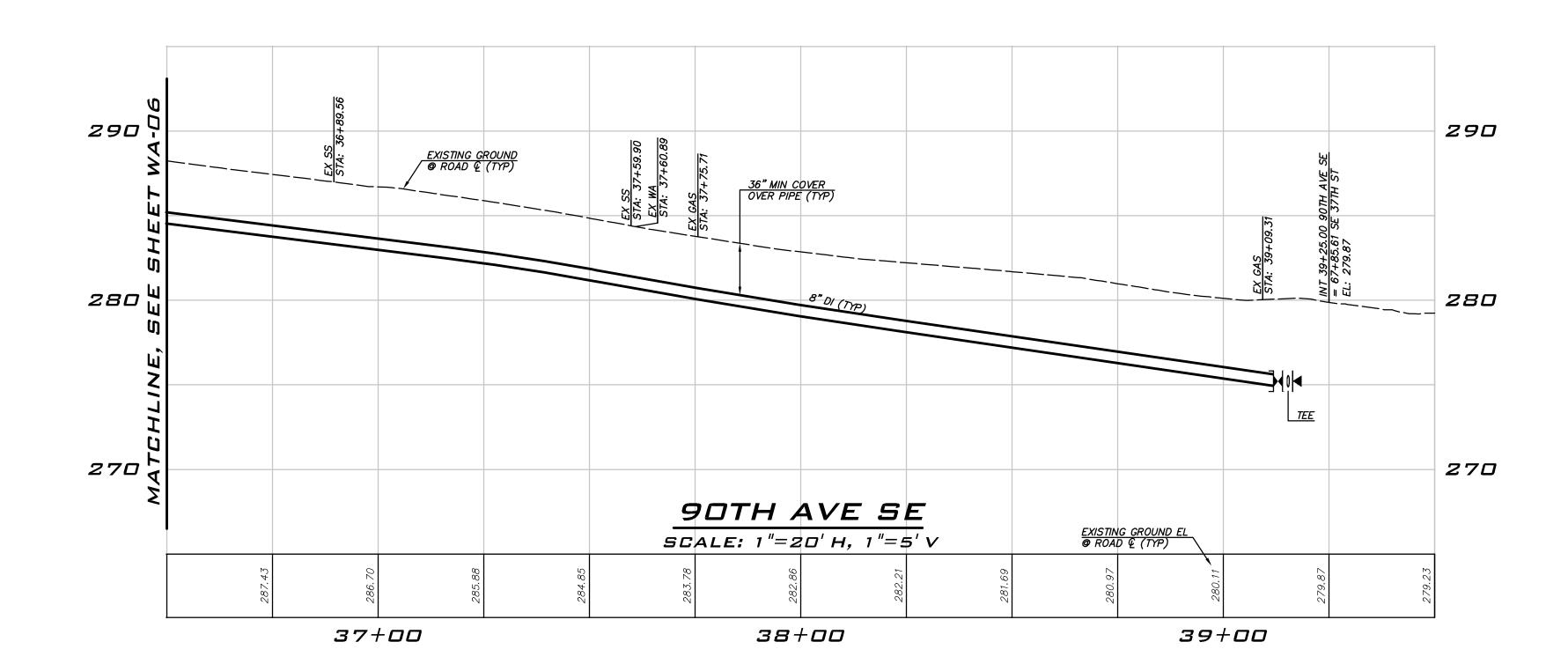


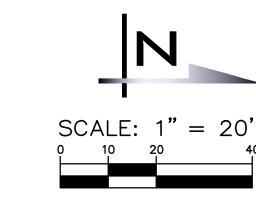
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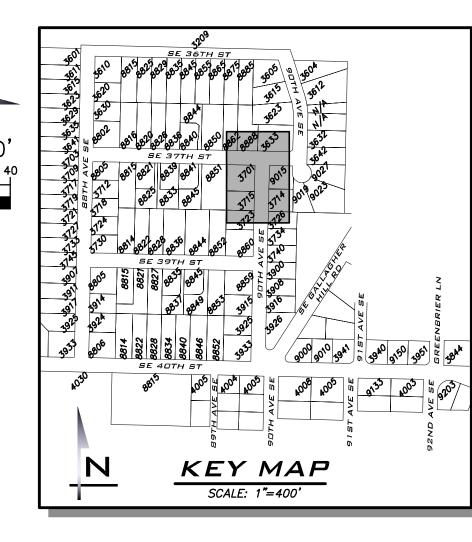
21-303

SHEET NAME: WA-06

<u>28</u> of <u>59</u>







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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:

ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT
ISSUE DATE:

3/14/2022								
REVISIONS								
BY								
ND DATE								
ON								
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ATER SYSTEN

2022 WATER MPROVEMENTS

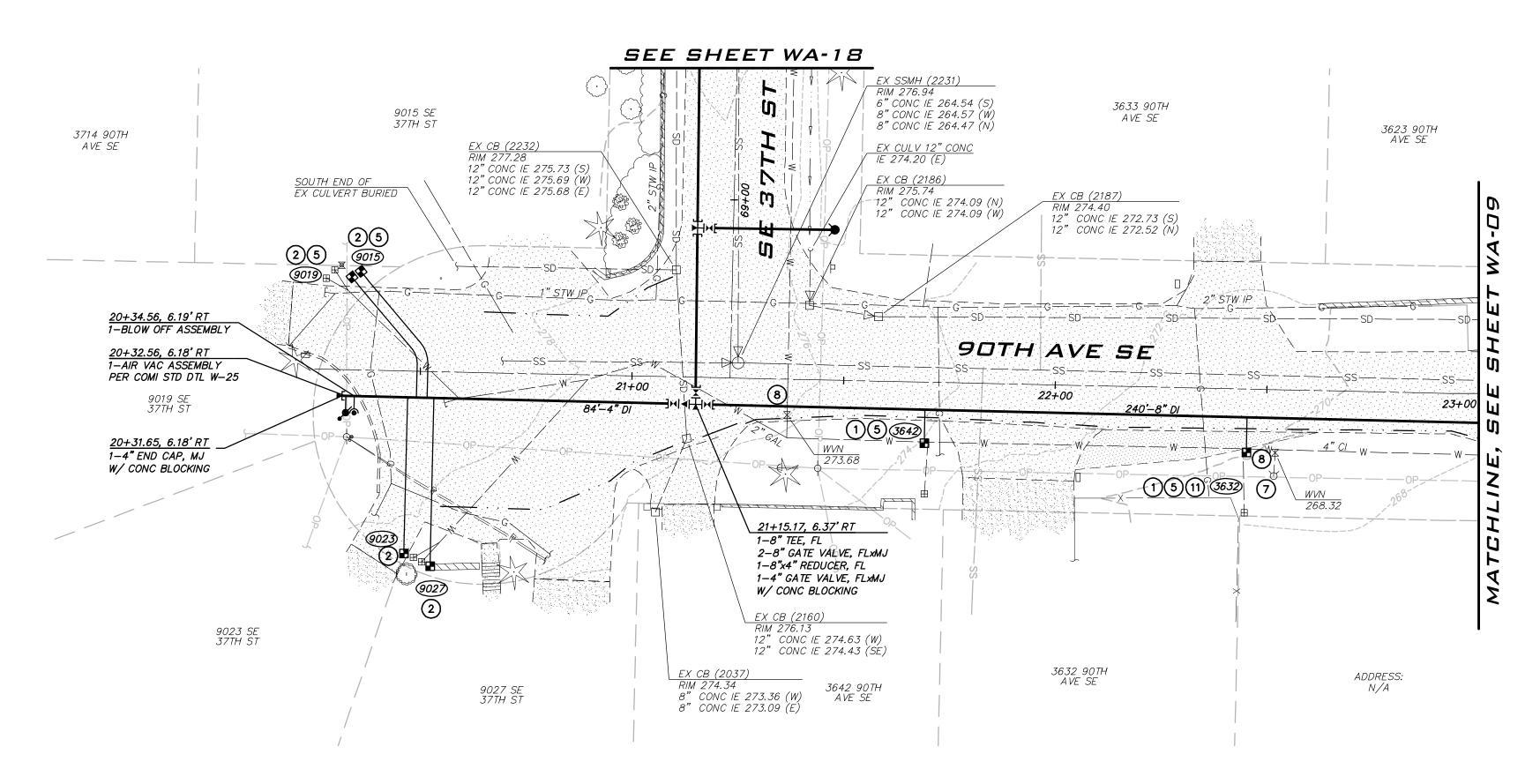


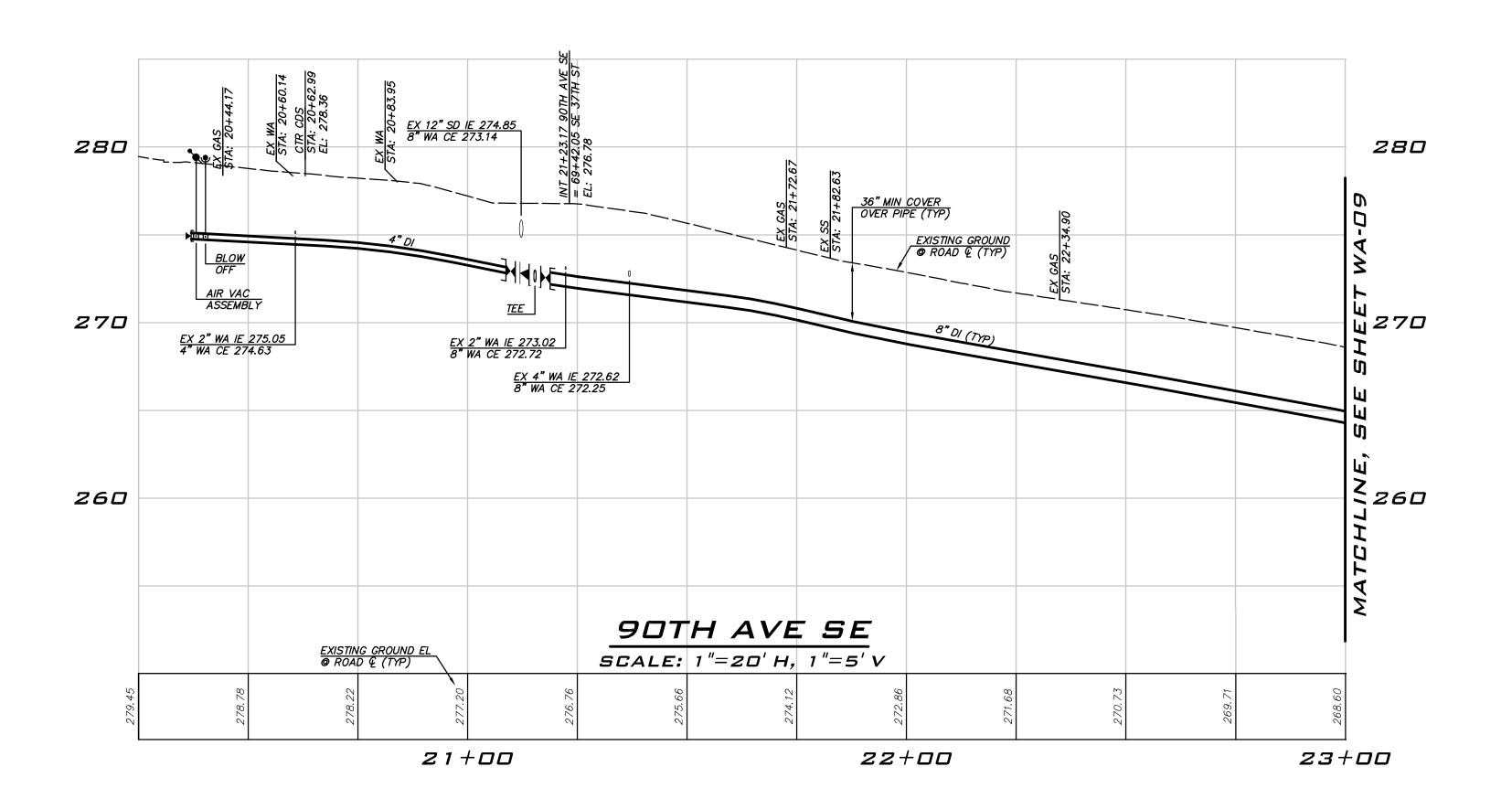
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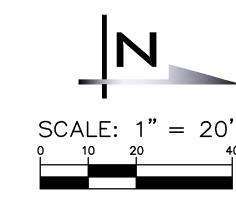
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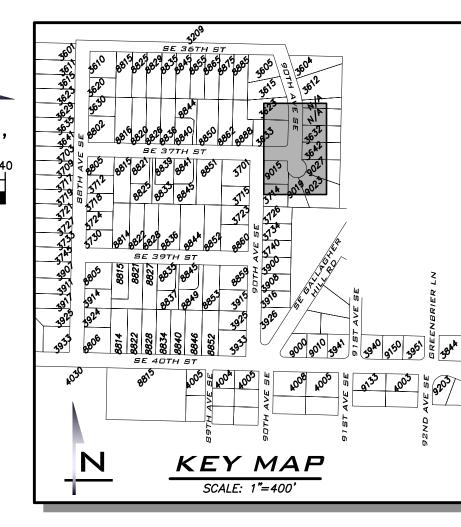
SHEET NAME:
WA-D7

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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:

PROJECT ENGINEER:

GRACE GARWIN, EIT

DESIGNER:

DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

SNDISIONS

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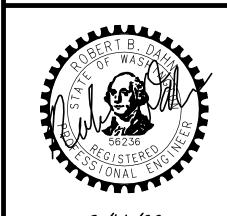
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3/14/22

JOB NUMBER: **21-303**

SHEET NAME:
WA-08

<u>30</u> of <u>59</u>

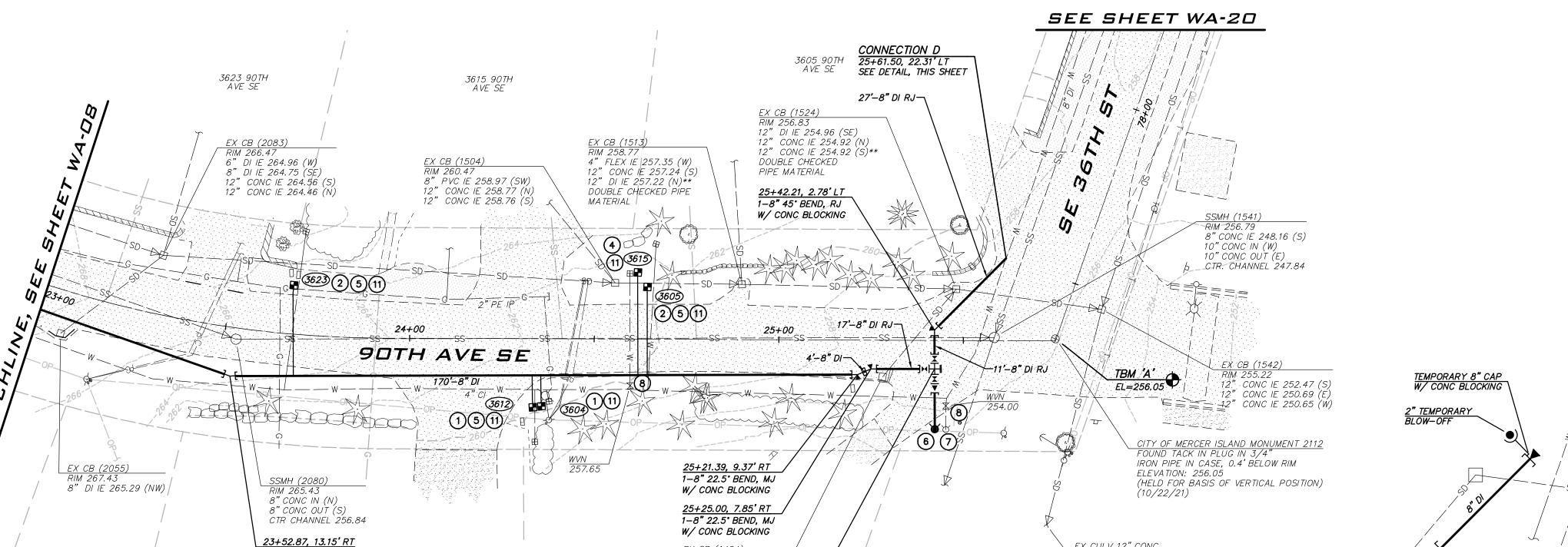
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270

260

250

240



12" DI IE 255.44 (NW)

2-8" GATE VALVE, FLXMJ 1-8" BLIND FLANGE

1-FIRE HYDRANT ASSEMBLY PER COMI STD DTL W-24

EX 12" SD IE 255.40 8" WA CE 252.77

25+00

8" WA IE 252.35 EX 8" SS CE 249.51

25+42.28, 7.74' RT 1-8" CROSS, FL

1-8" GATE VALVE, FL 1-8"x6" REDUCER, FL 1-6" GATE VALVE, FLXMJ (PAID W/ FIRE HYDRANT)

90TH AVE SE

SCALE: 1"=20' H, 1"=5' V

1-8" 22.5" BEND, MJ

EXISTING GROUND EL

24+00

ADDRESS:

270 m

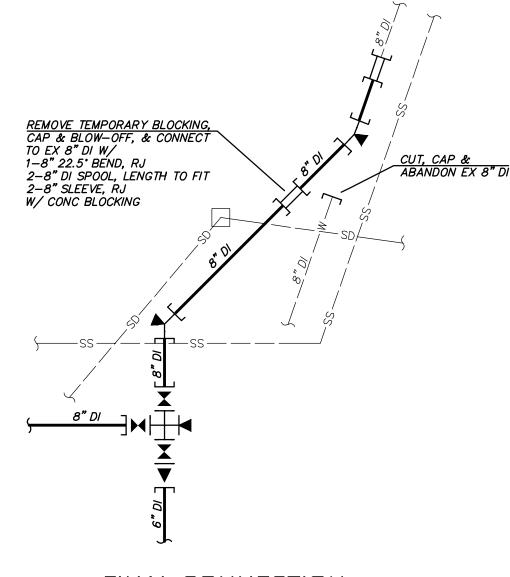
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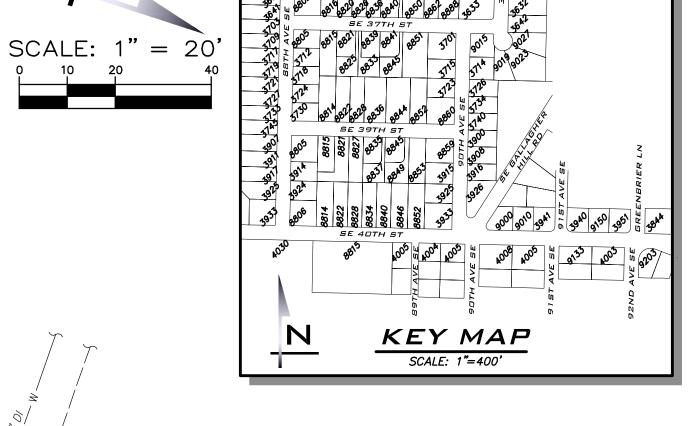
8" DI

TESTING CONNECTION



FINAL CONNECTION

CONNECTION D NOT TO SCALE



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BLUELINE

25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

PROJECT MANAGER:

PROJECT ENGINEER: GRACE GARWIN, EIT

AS NOTED

ROB DAHN, PE

DESIGNER:

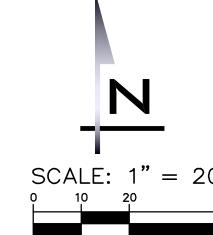
CAROL DOGGETT ISSUE DATE: 3/14/2022

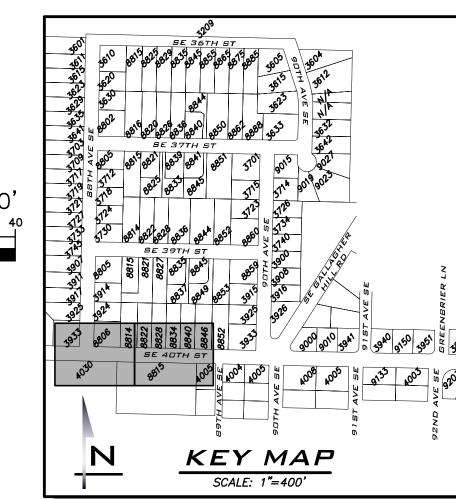
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SHEET NAME: WA-09

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BLUELINE

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

AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER:

GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT

ISSUE DATE:

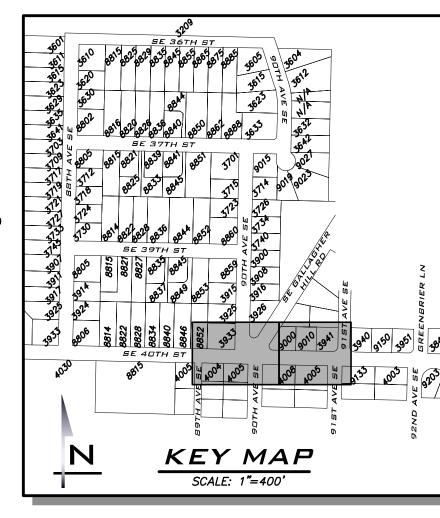
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21-303

SHEET NAME: WA-1 🗆

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CONSTRUCTION NOTES

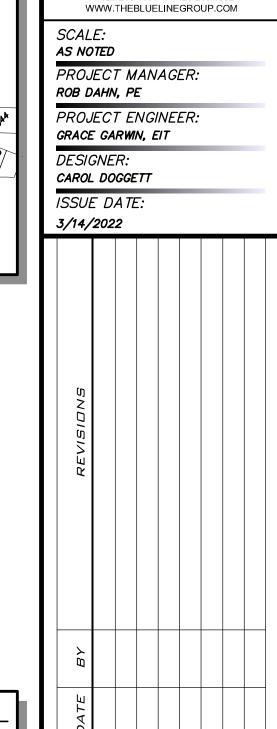
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BLUELINE

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KIRKLAND, WA 98033

P: 425.216.4051 F: 425.216.4052

2022 WATER SYSTEM MPROVEMENTS PROJECT

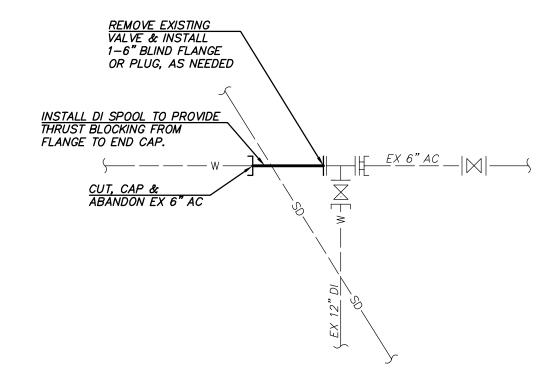
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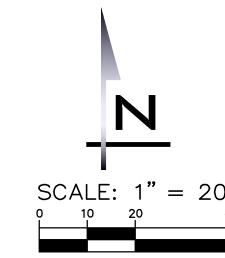
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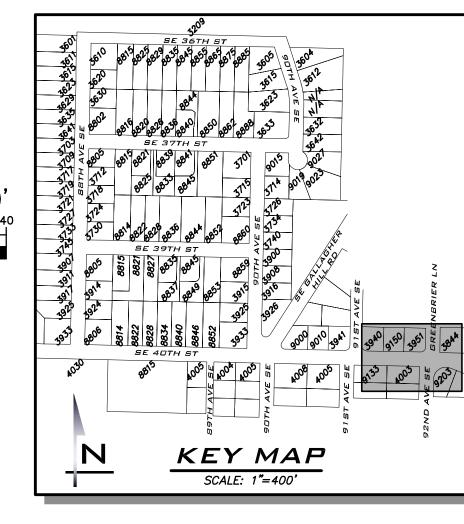
SHEET NAME: **WA-11**

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ABANDONMENT DETAIL NOT TO SCALE





GIS NOTE

UTILTIES ON THIS SHEET ARE SHOWN PER CITY OF MERCER ISLAND GIS AND ARE NOT SURVEYED.

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

AS NOTED PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT

ISSUE DATE: 3/14/2022

3/14/22

21-303

SHEET NAME:

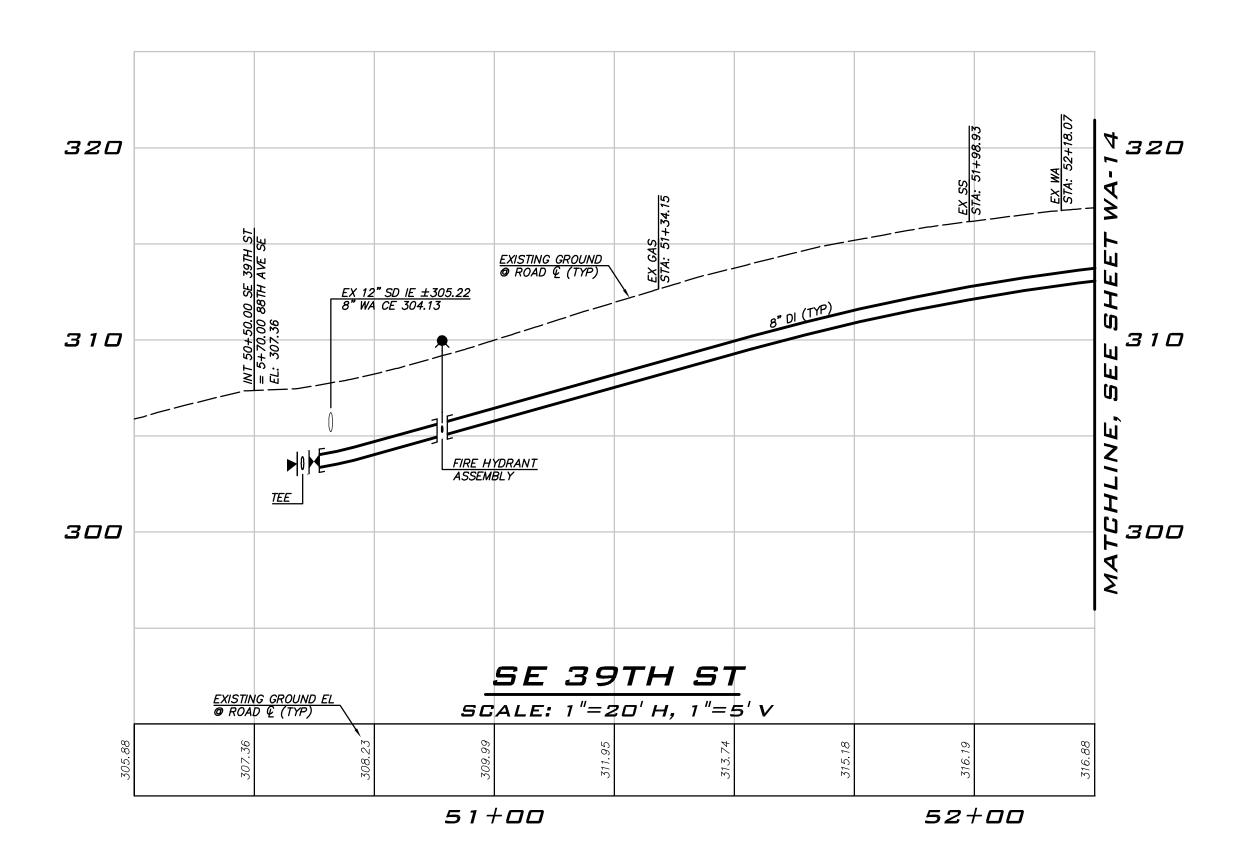
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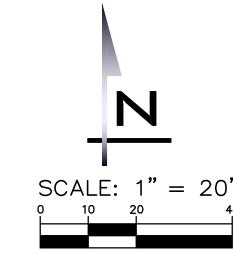
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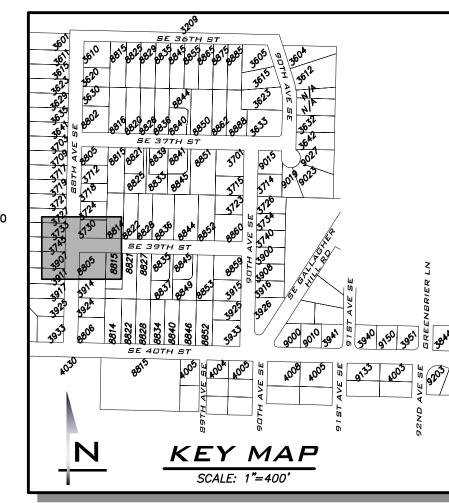
- 2 INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)

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AS NOTED PROJECT MANAGER: ROB DAHN, PE PROJECT ENGINEER: GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT ISSUE DATE: 3/14/2022

BLUELINE

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

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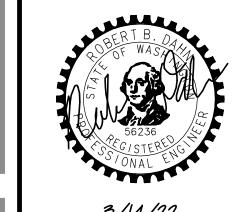
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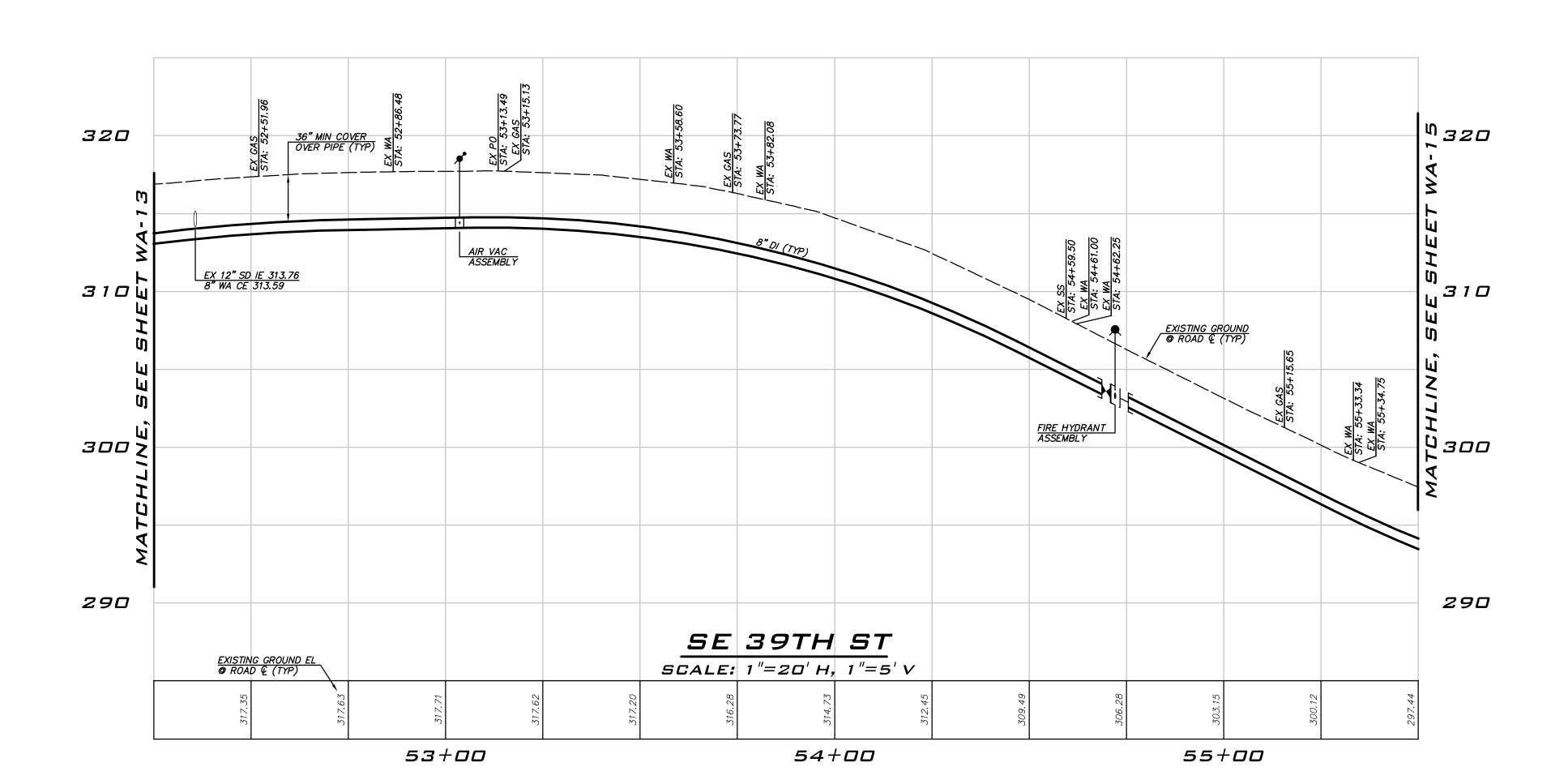


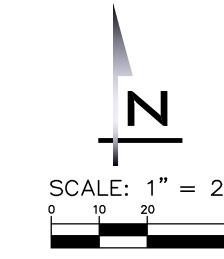
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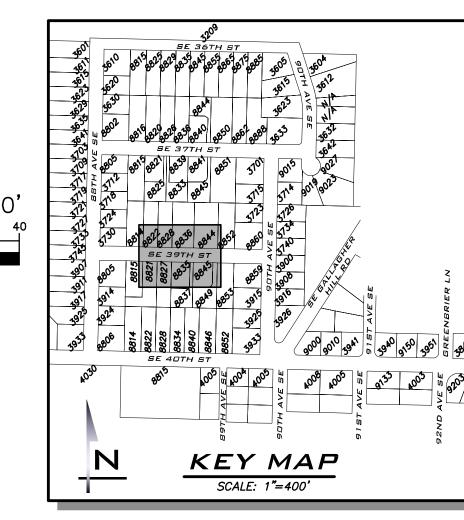
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SHEET NAME: WA-13

<u>35</u> of <u>59</u>







BLUELINE

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

PROJECT MANAGER:

PROJECT ENGINEER: GRACE GARWIN, EIT

AS NOTED

ROB DAHN, PE

DESIGNER: CAROL DOGGETT ISSUE DATE: 3/14/2022

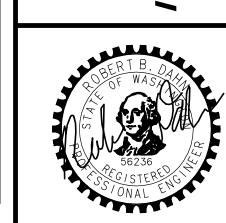
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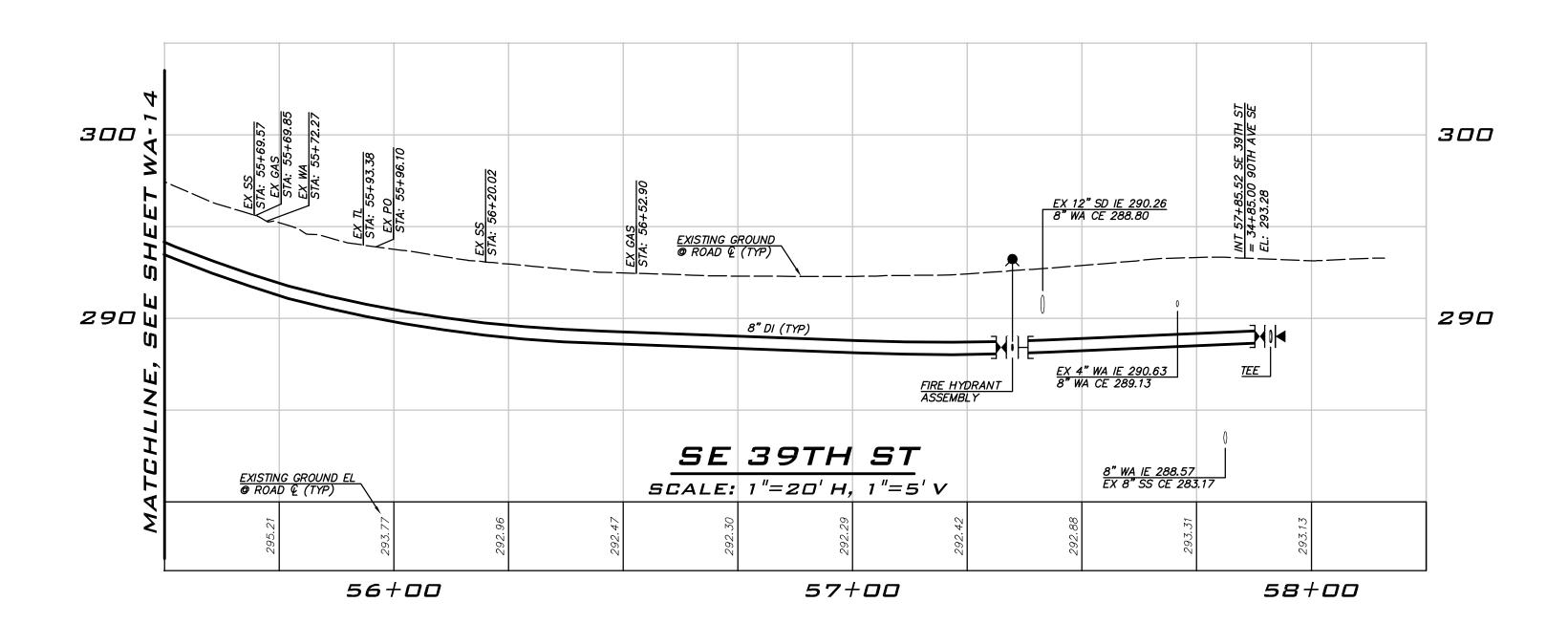


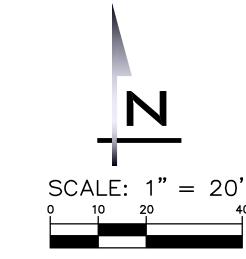
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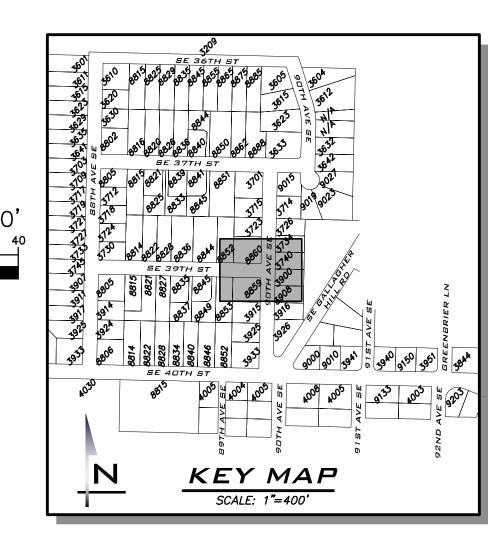
SHEET NAME: WA-14

21-303

<u>36</u> of <u>59</u>







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BLUELINE

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

AS NOTED

PROJECT MANAGER: ROB DAHN, PE

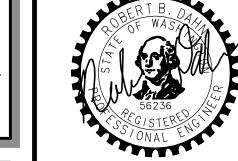
PROJECT ENGINEER:

GRACE GARWIN, EIT DESIGNER: CAROL DOGGETT

ISSUE DATE: 3/14/2022

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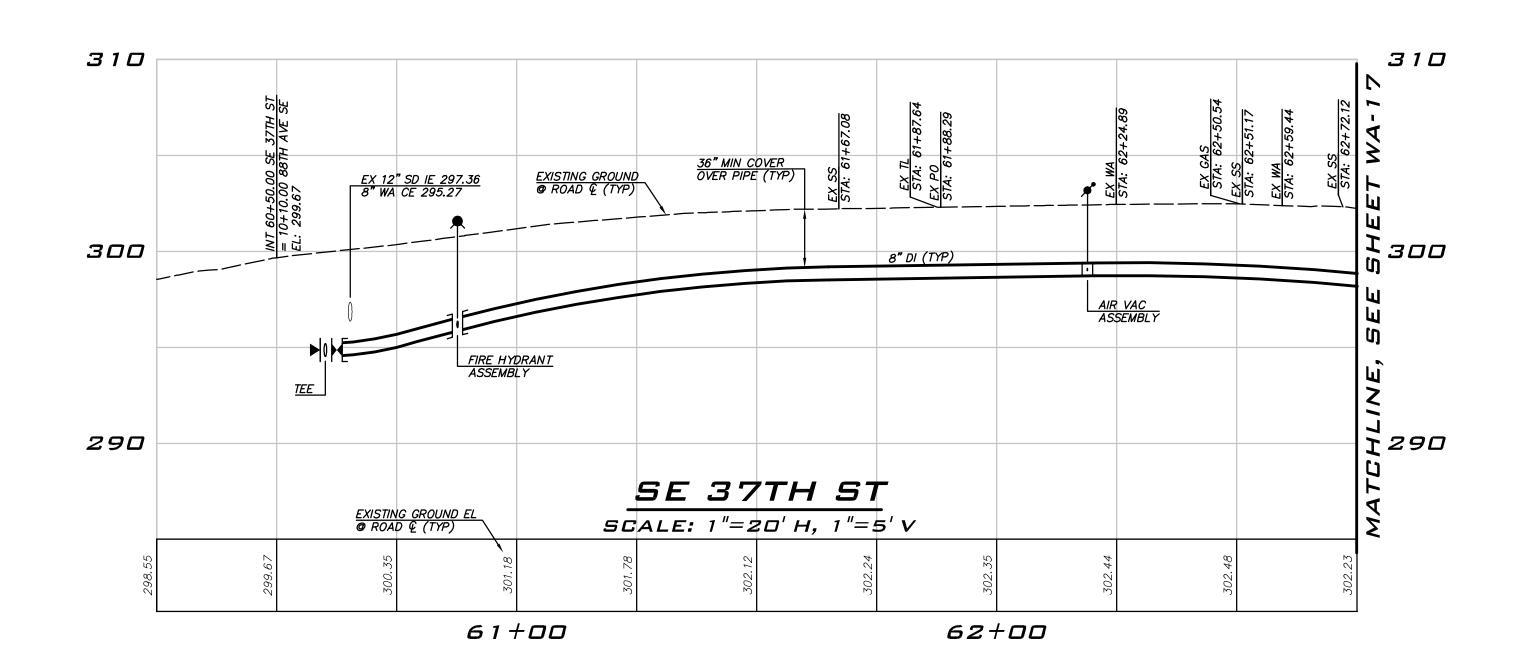


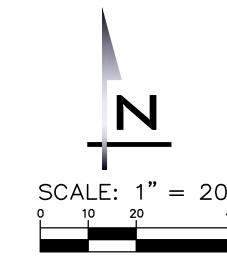
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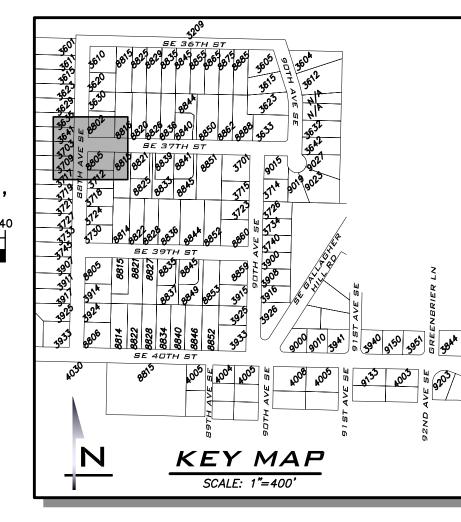
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SHEET NAME: WA-15

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BLUELINE

25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

AS NOTED

PROJECT MANAGER:

ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

NO DATE BY REVISIONS

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2022 WATER MPROVEMENT

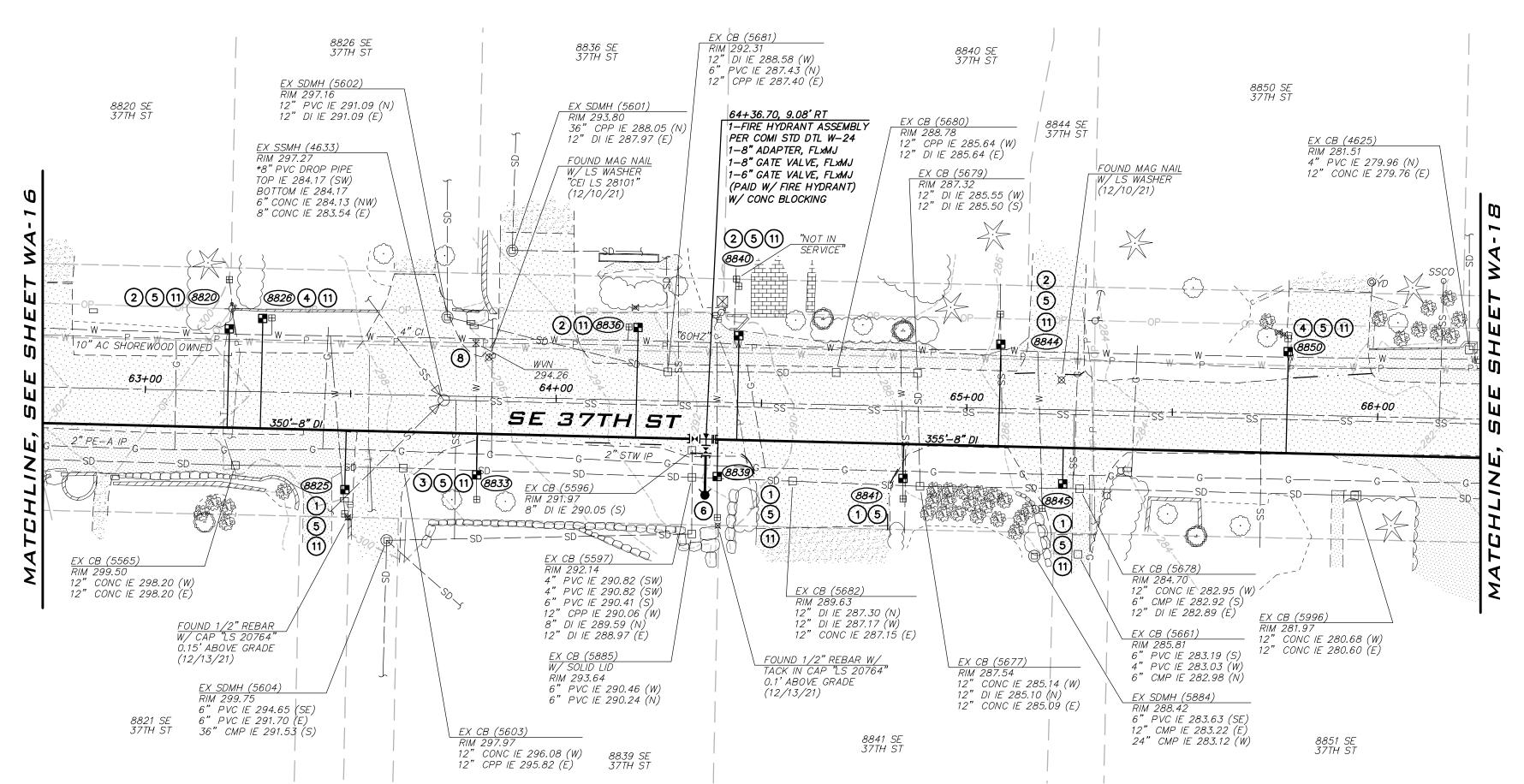


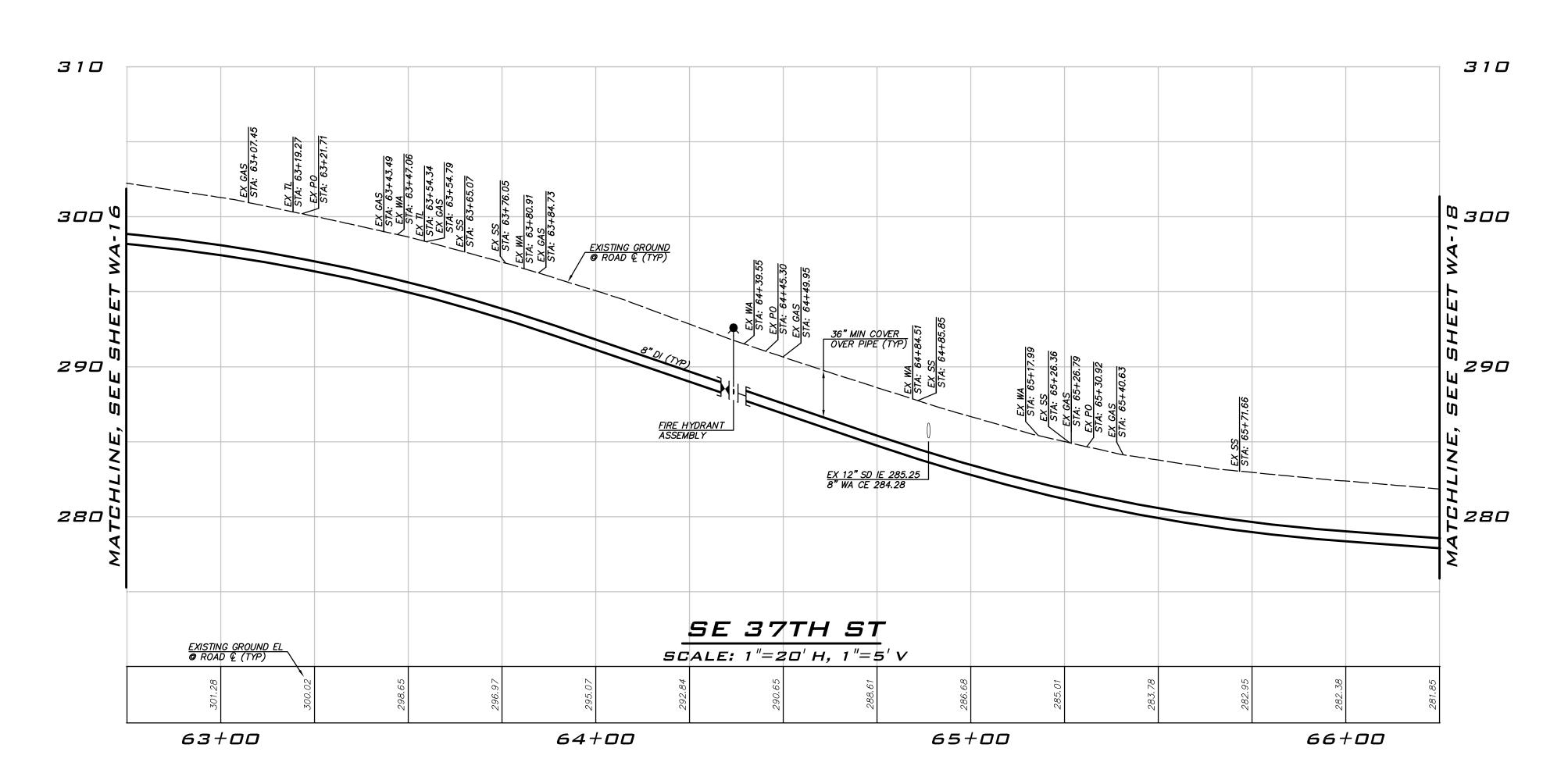
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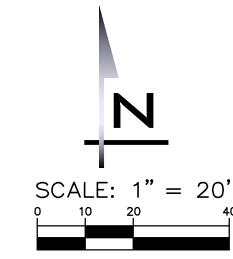
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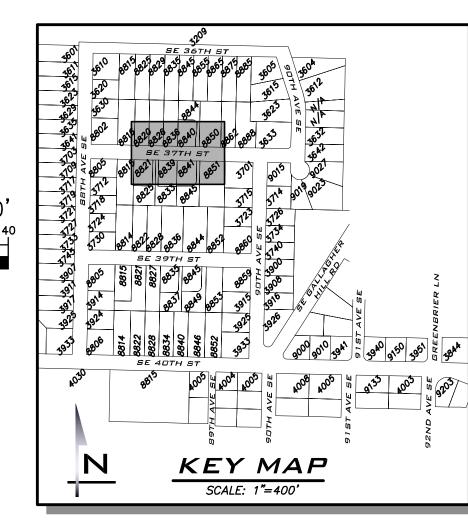
SHEET NAME: **WA-16**

<u>38</u> of <u>59</u>









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BLUELINE

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25 CENTRAL WAY, SUITE 400,

SCALE: AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER:
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DESIGNER:
CAROL DOGGETT
ISSUE DATE:
3/14/2022

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WATER SYSTEM EMENTS PROJECT

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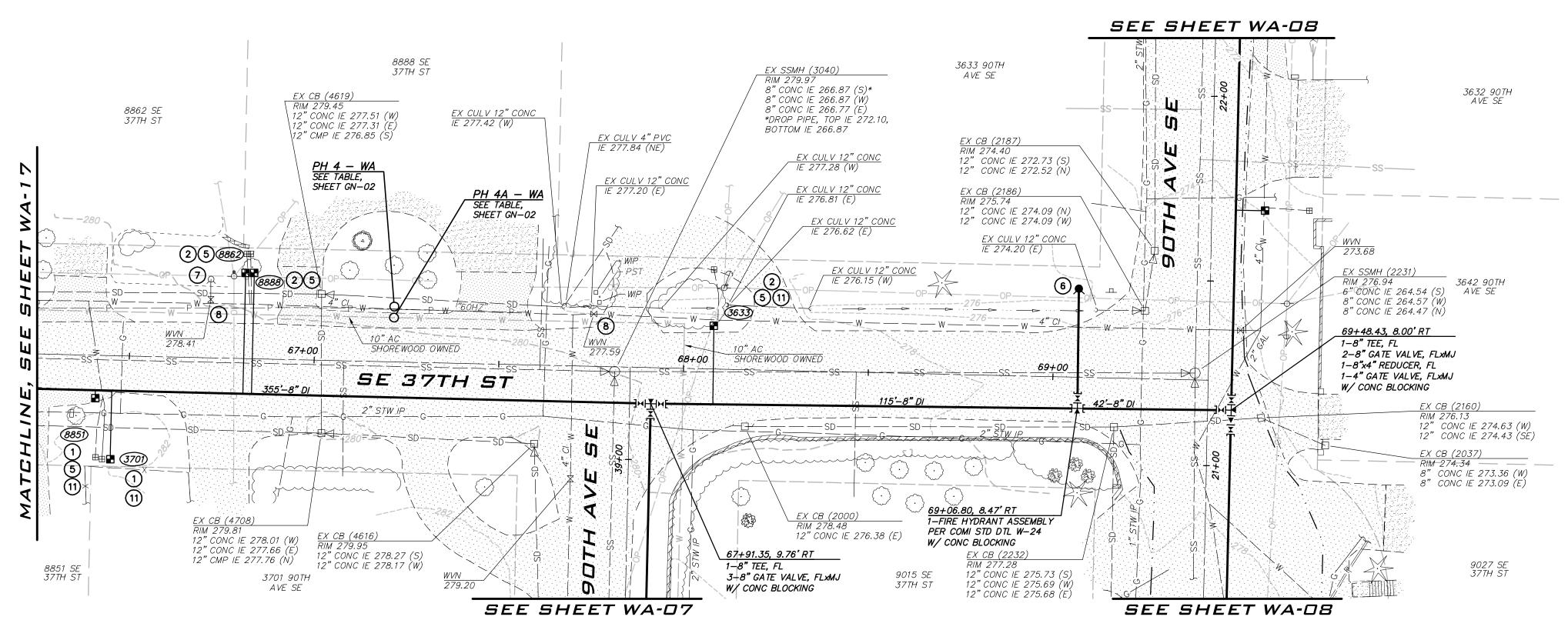
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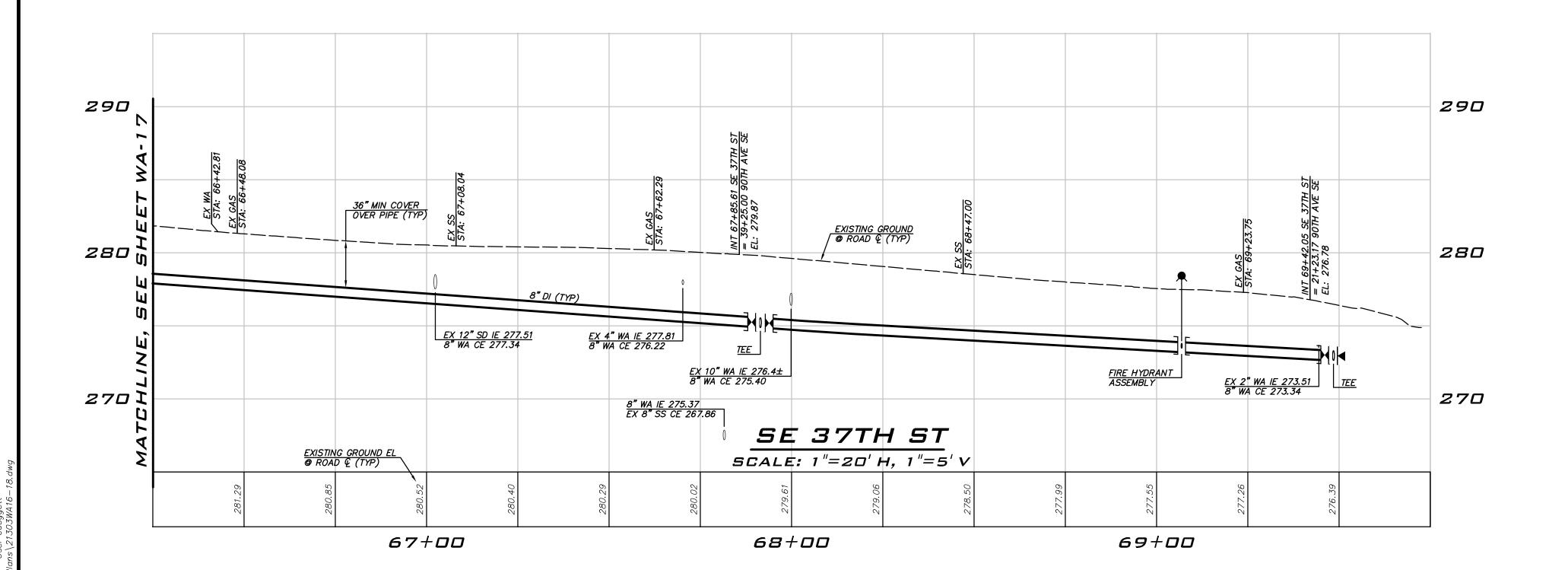
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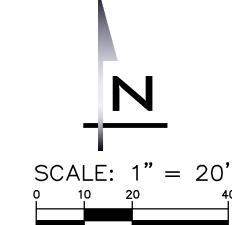
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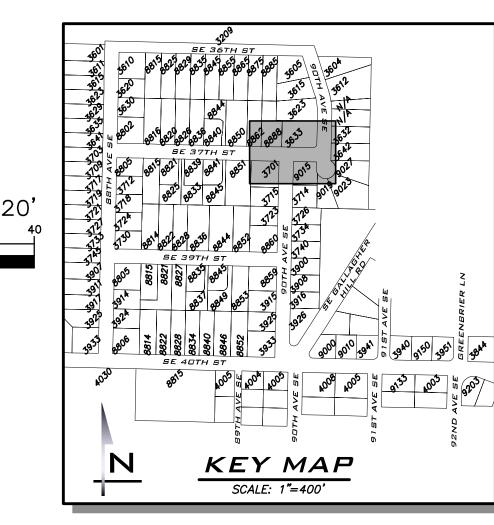
JOB NUMBER: **21-303**

SHEET NAME: **WA-17**









- 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.
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- 3. COORDINATE VALVE SHUTOFFS WITH CITY FOR ALL WATER MAIN CONNECTIONS. CITY STAFF SHALL OPERATE ALL WATER SYSTEM VALVES. CONTRACTOR NOT ALLOWED TO OPERATE VALVES.
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS.
 (SEE NOTES 9 & 10 BELOW)
- 2 INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- 3 INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE
- 4) INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS.
- 5 CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE.
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- 8 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:
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BLUELINE 25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

AS NOTED

PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

3/14/2022

DESIGNER: CAROL DOGGETT ISSUE DATE:

		 				
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- . MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND OTHER UTILITIES.
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NOTES

- NOTES 9 & 10 BELOW)
- (SEE NOTES 9 & 10 BELOW)

- DEXISTING PIPE AS DIRECTED BY THE CITY.

- REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
- 12 INTERCEPT EXISTING 1.5" SHORT SIDE SERVICE. CUT EXISTING SERVICE LINE AT NEW MAIN. CONNECT TO NEW MAIN PER STD DETAIL W-14.
- (13) COMPLETE SERVICE INSTALLATION PRIOR TO ABANDONMENT.

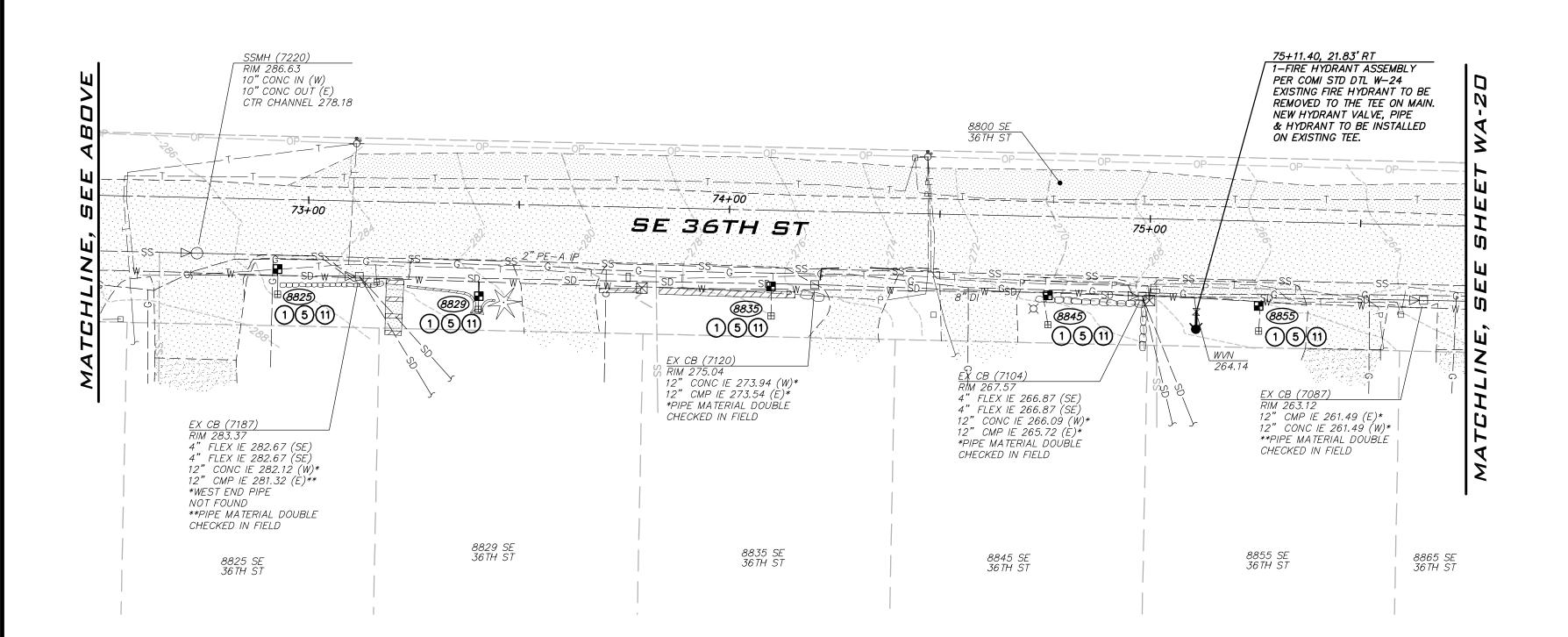
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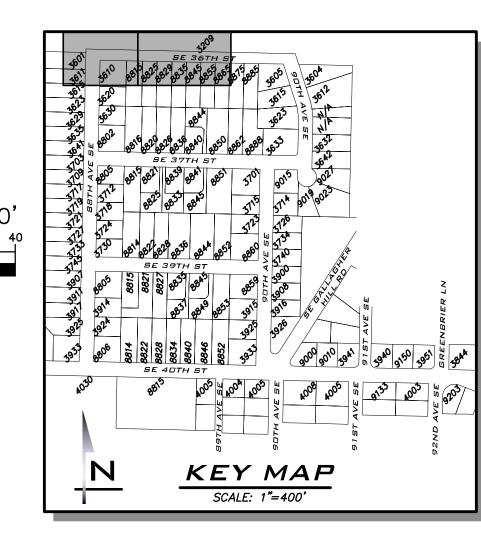
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21-303

SHEET NAME: WA-18

<u>40</u> of <u>59</u>





- 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.
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- 2 INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- 4) 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)
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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

AS NOTED PROJECT MANAGER: ROB DAHN, PE

PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

3/14/2022

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(SEE NOTES 9 & 10 BELOW)

- 3 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)

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- "ABANDONED GATE VALVE."

- 11 REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.

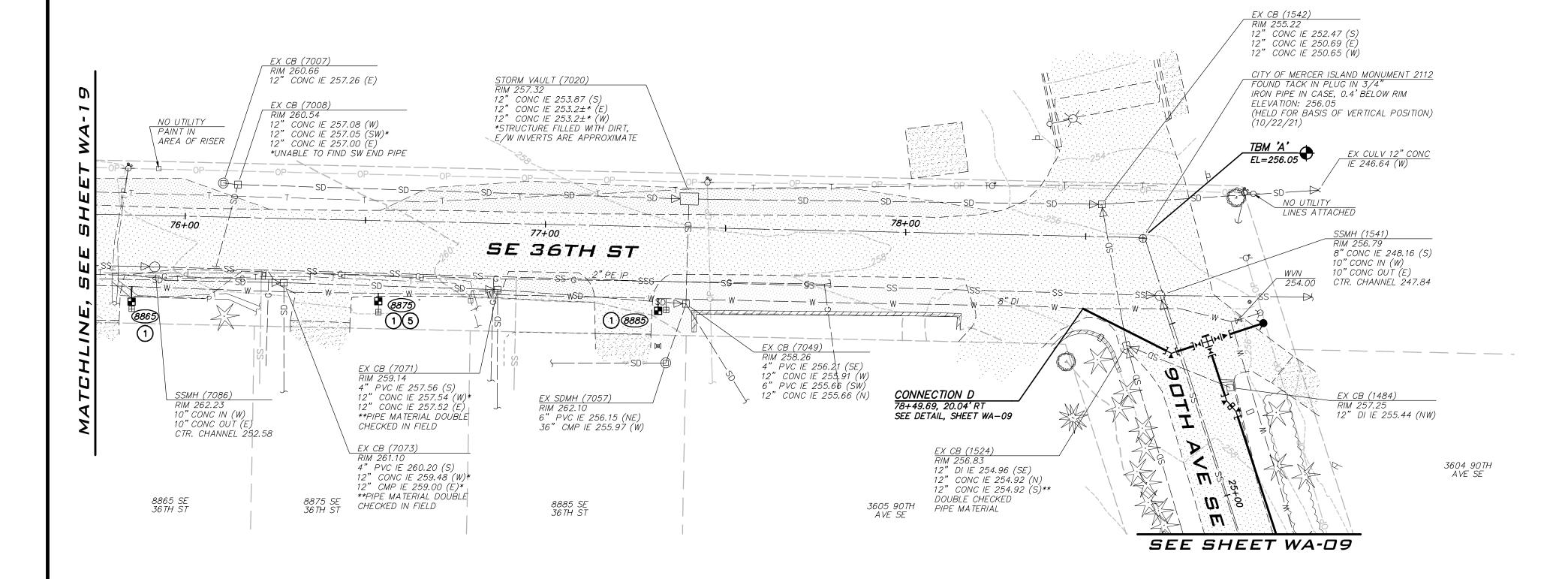


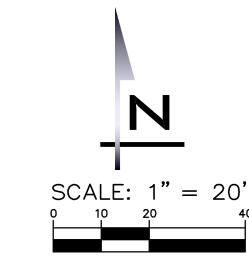
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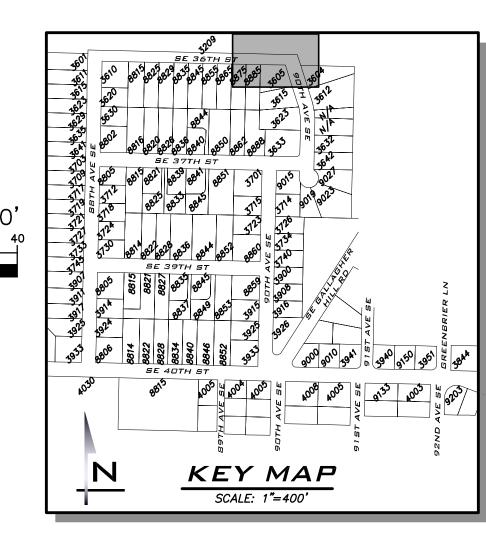
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SHEET NAME: WA-19

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- 1. 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.
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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

www.thebluelinegroup.com

AS NOTED

PROJECT MANAGER:

ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

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O22 WATER SYSTEM ROVEMENTS PROJECT



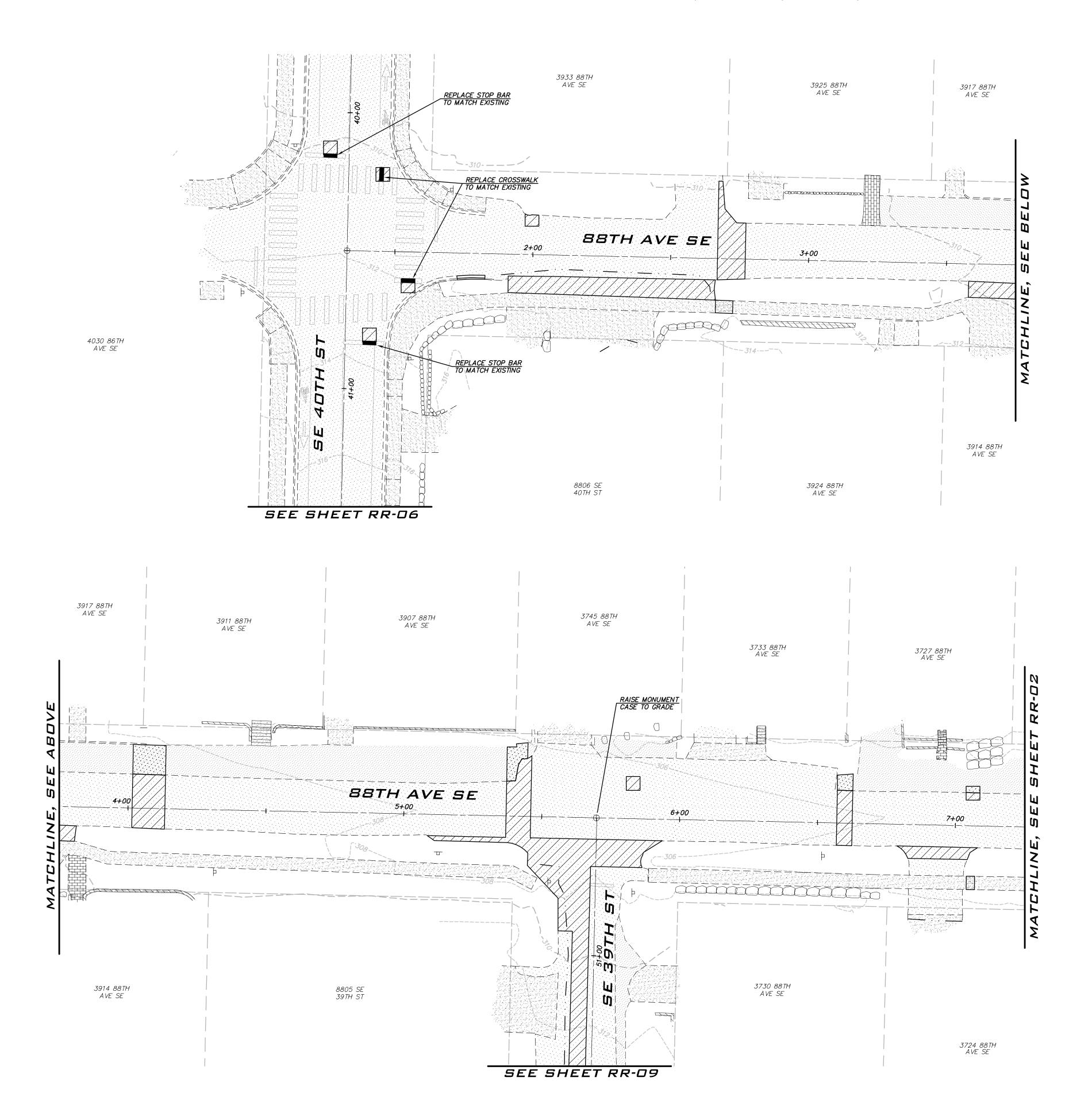
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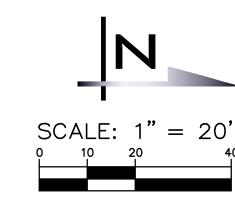
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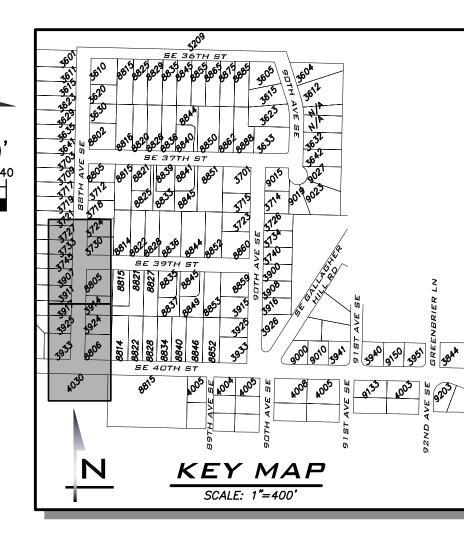
SHEET NAME:
WA-20

21-303

<u>42</u> of <u>59</u>









PROJECT MANAGER:

ROB DAHN, PE PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE: 3/14/2022

EXISTING UTILITY NOTE

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

PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)

LEGEND

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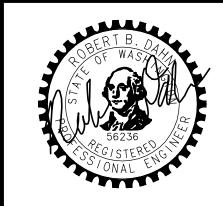
SIDEWALK, CURB AND GUTTER

INSPECTOR DURING CONSTRUCTION.

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THE LOCATION OF THE PAVEMENT RESTORATION SHOWN IS APPROXIMATE ONLY AND THE EXACT LOCATION SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION

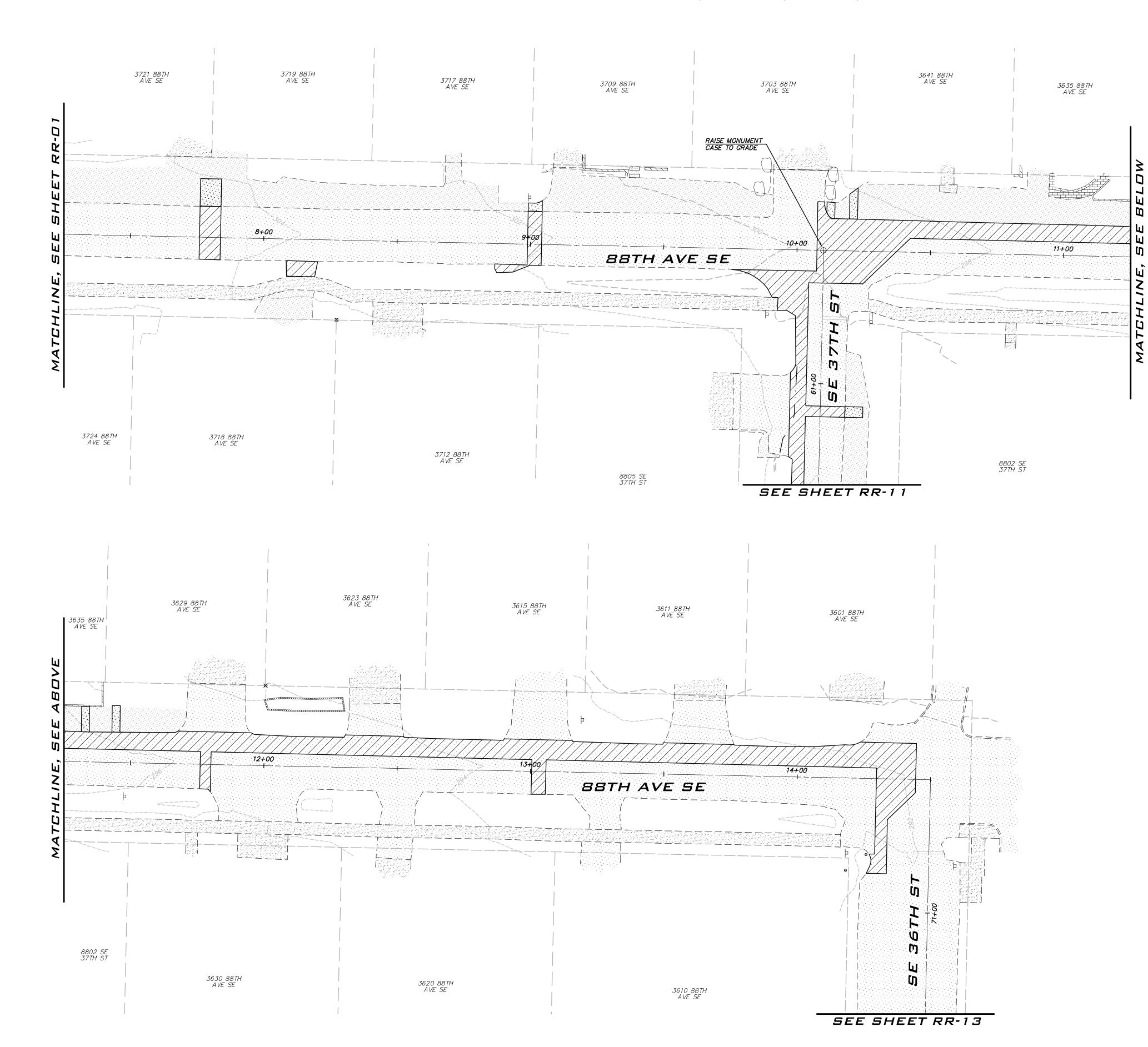


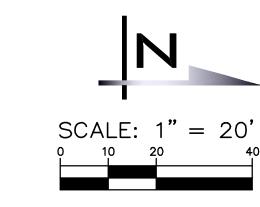
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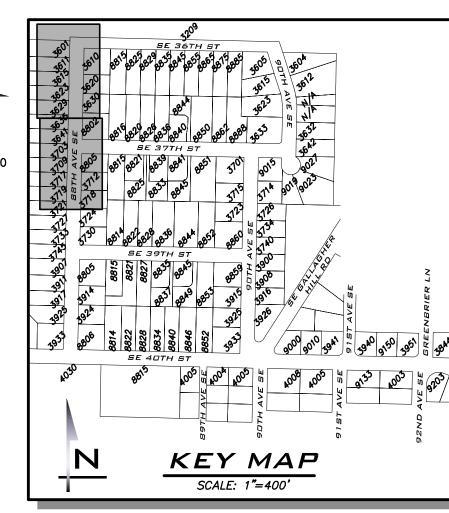
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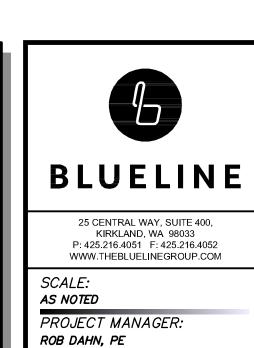
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PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER:

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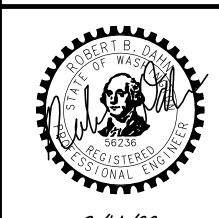
NOTES

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.

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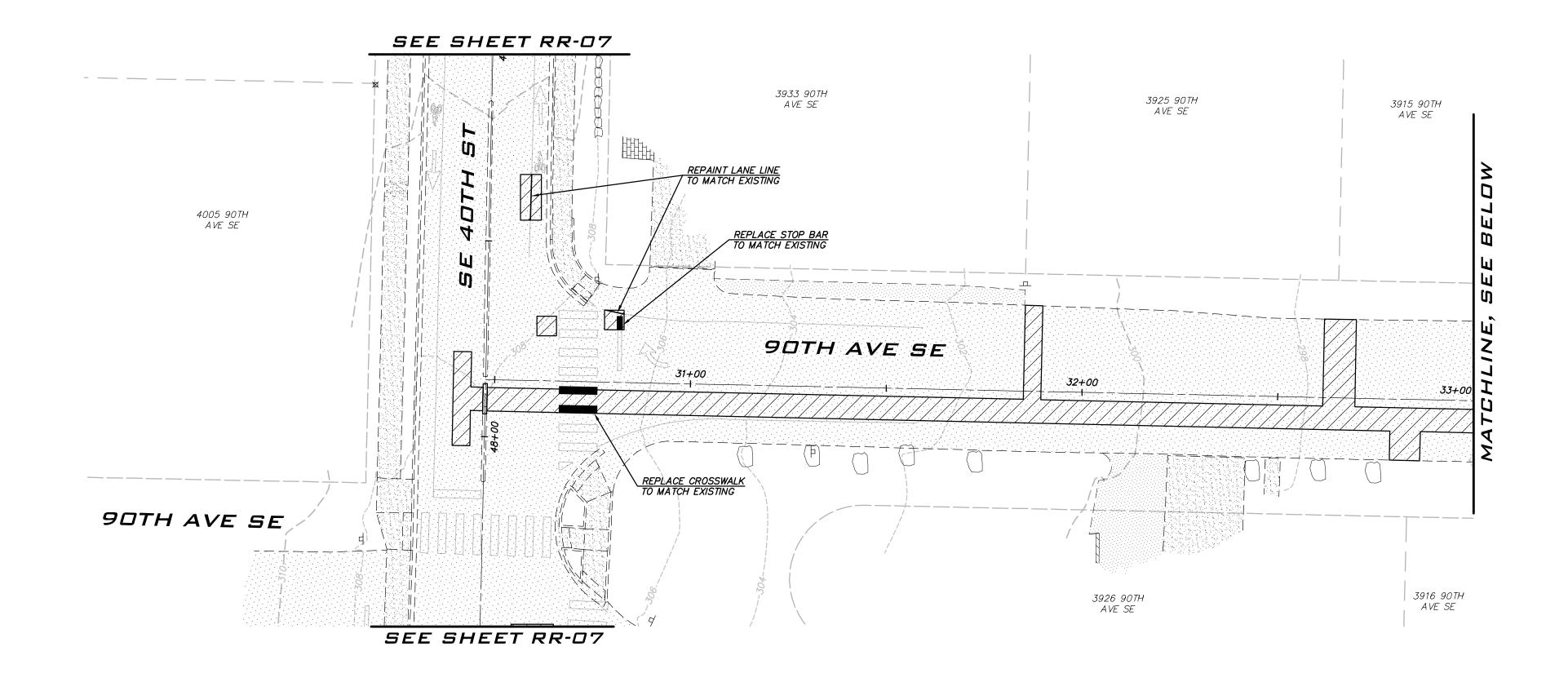


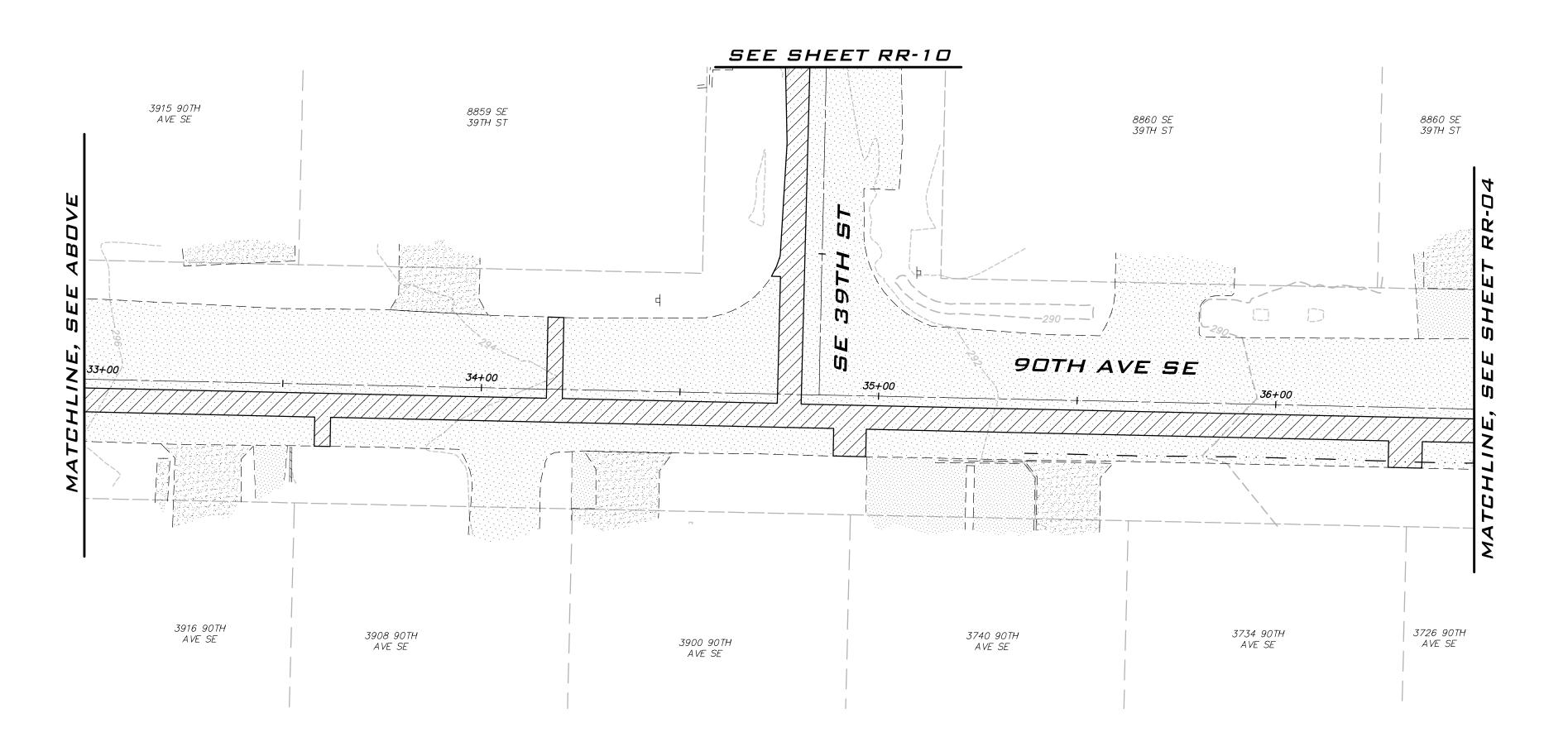
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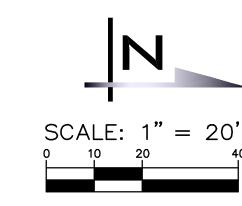
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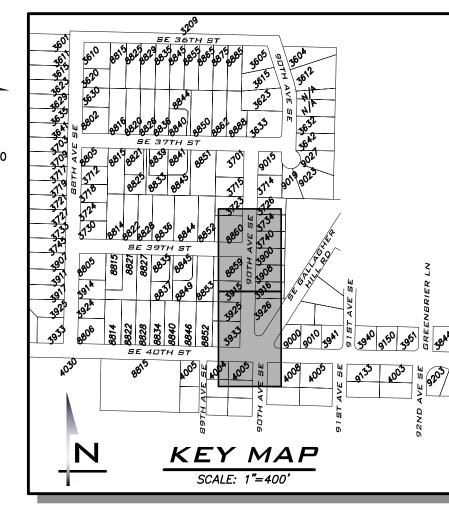
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SCALE: AS NOTED

PROJECT MANAGER: ROB DAHN, PE PROJECT ENGINEER: GRACE GARWIN, EIT

DESIGNER: CAROL DOGGETT ISSUE DATE:

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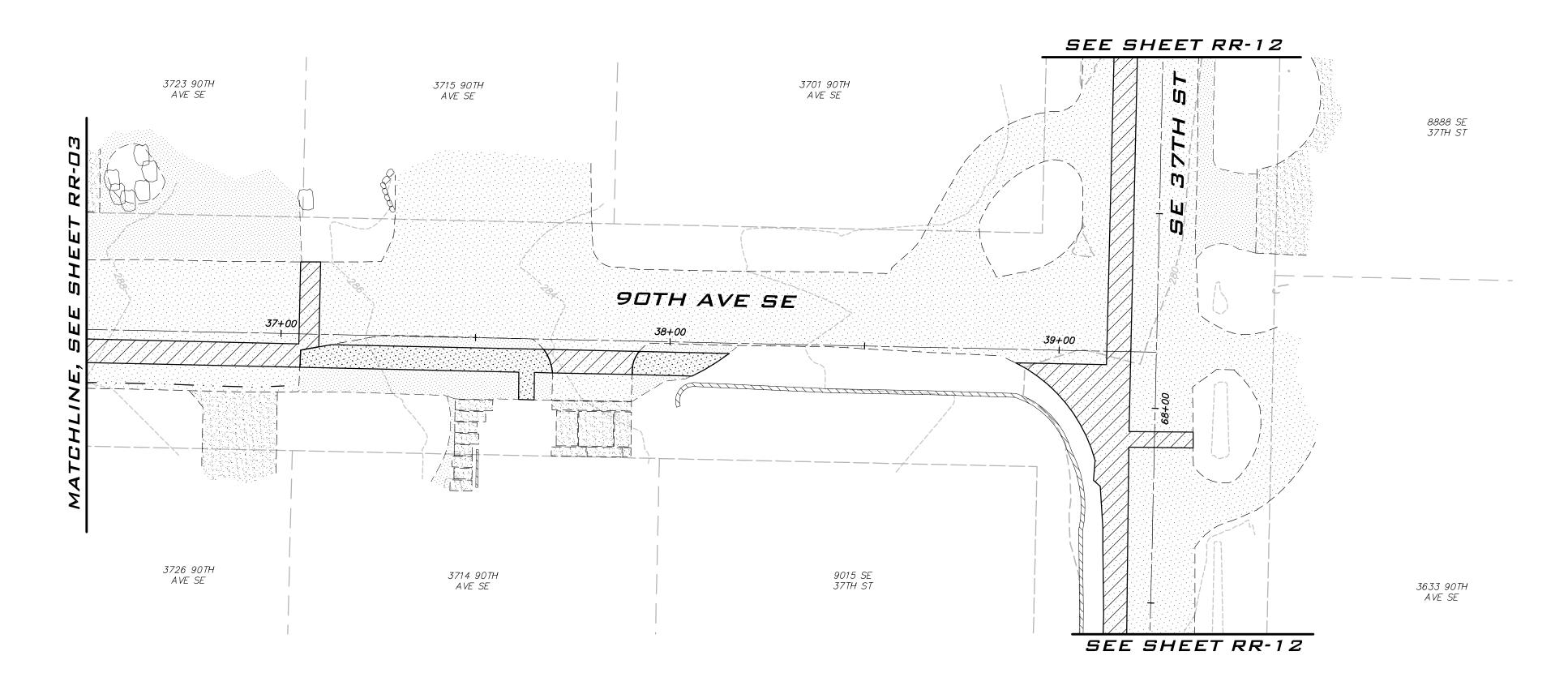


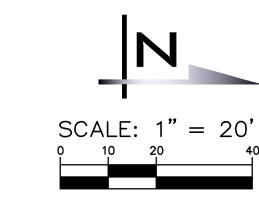
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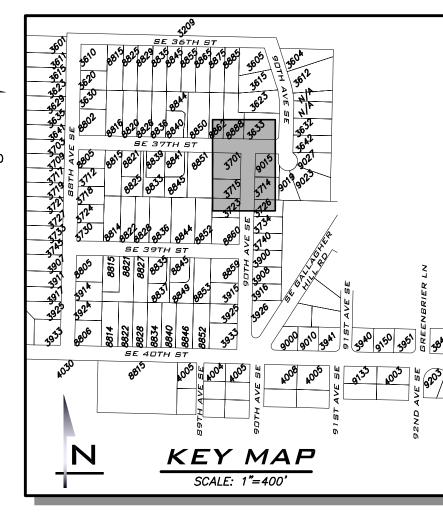
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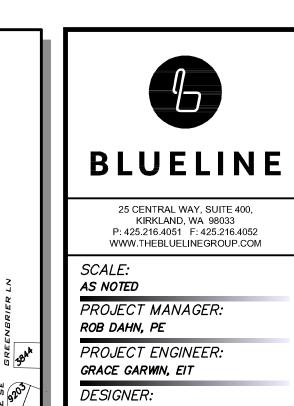
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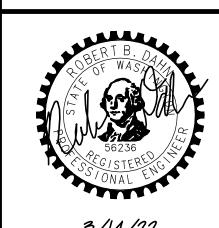
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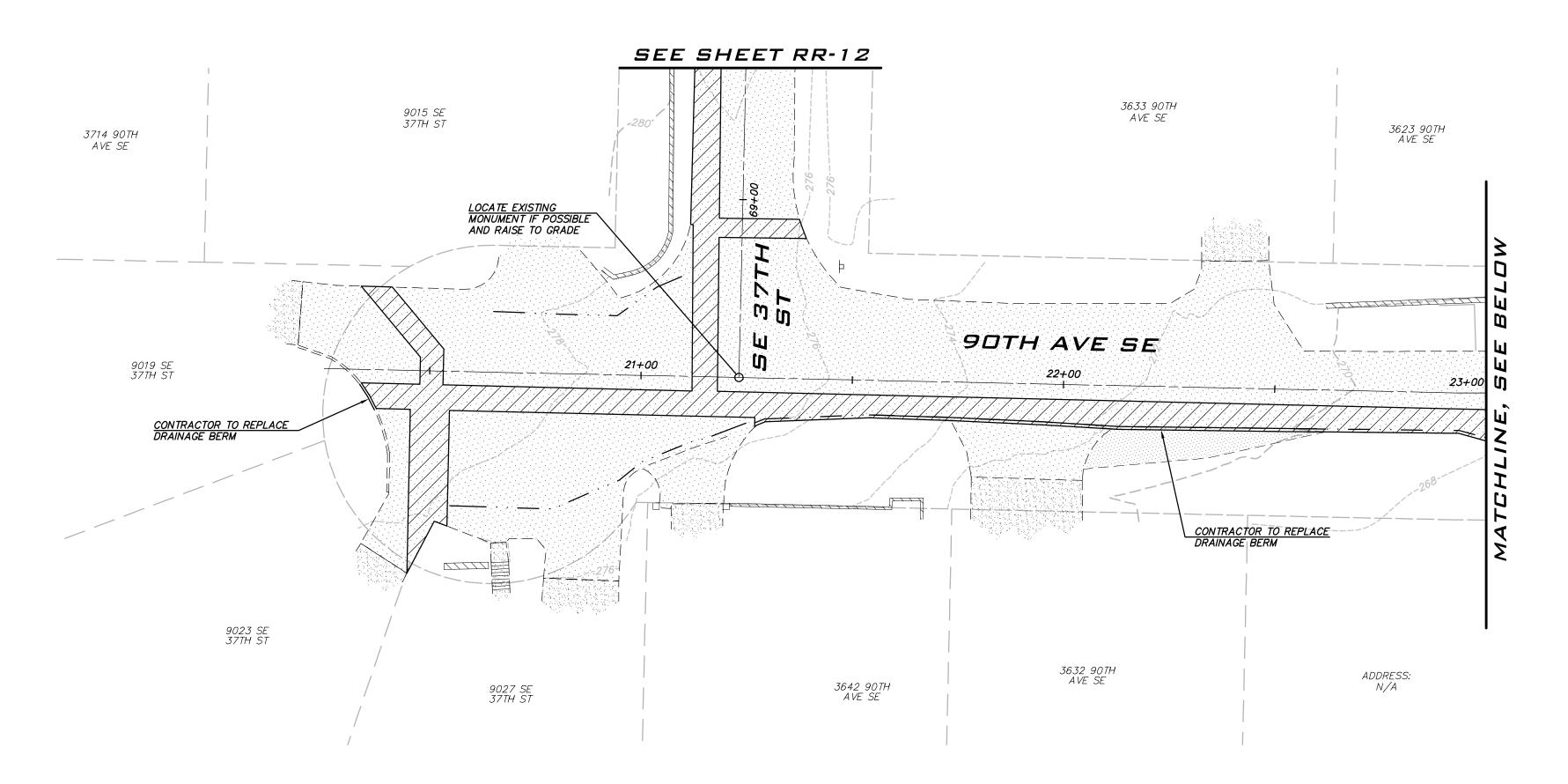


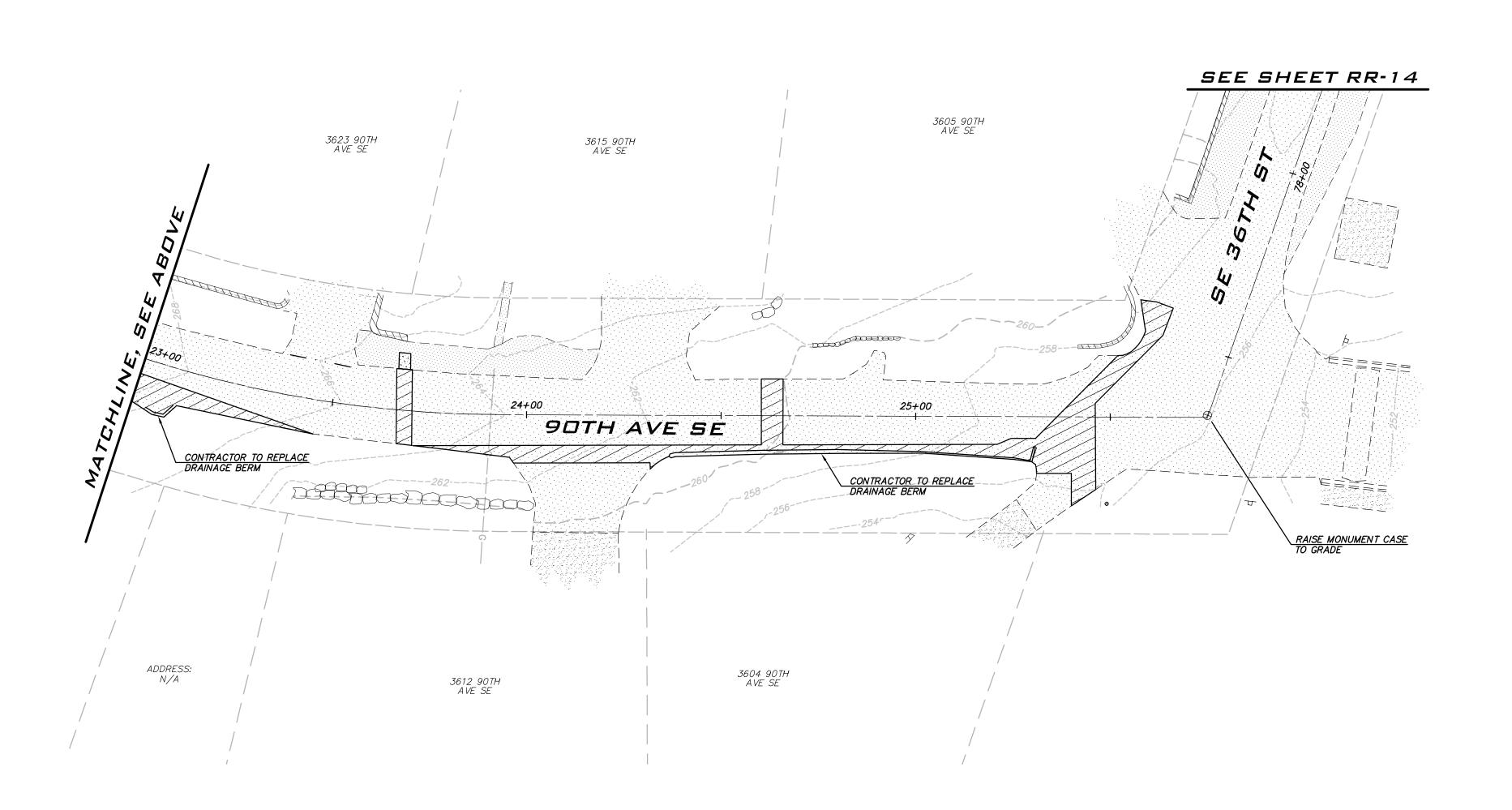
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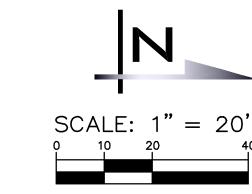
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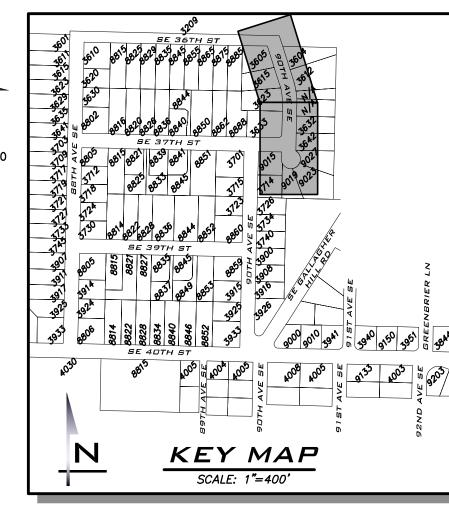
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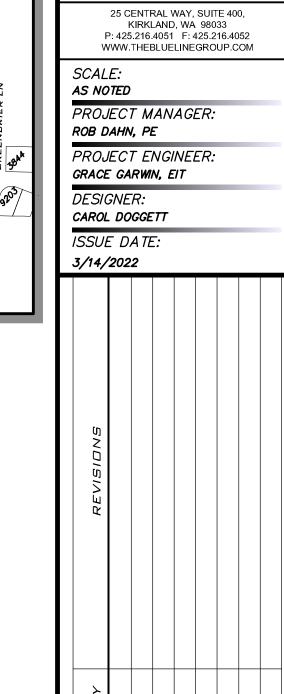
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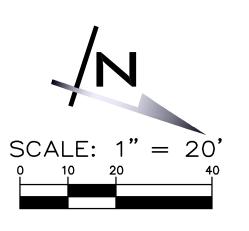








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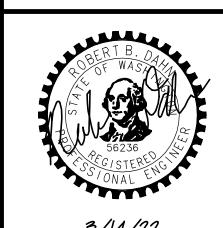
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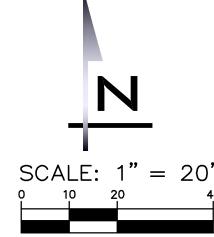
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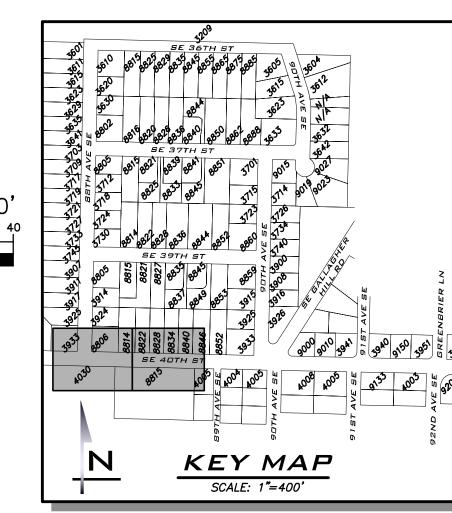
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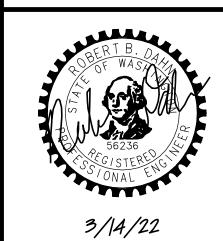
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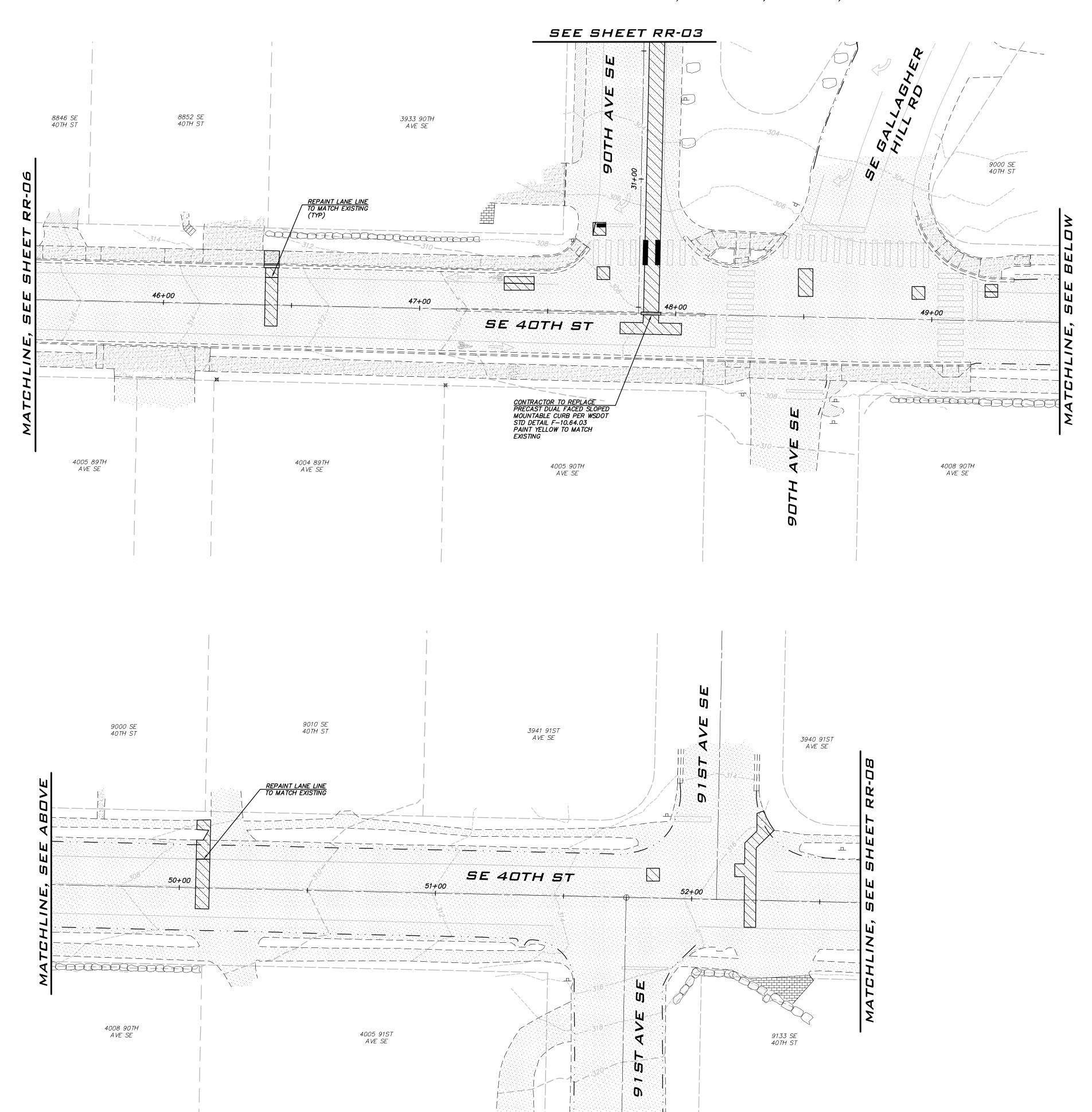
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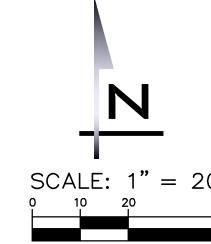


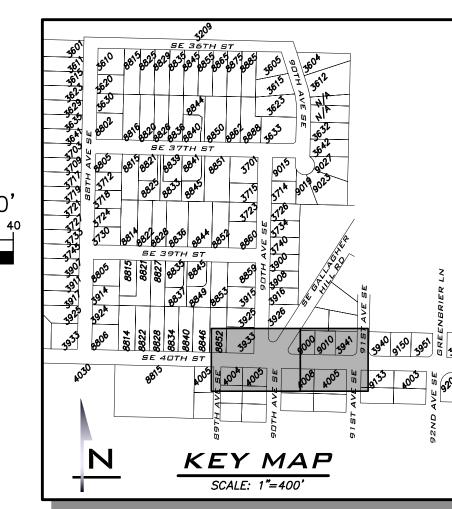
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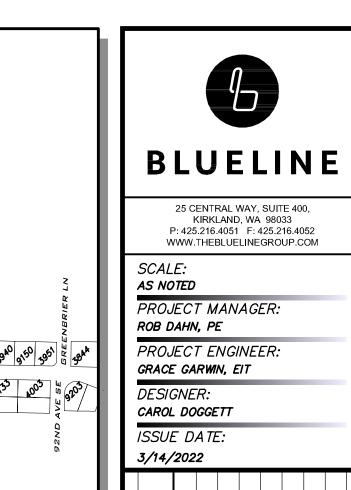
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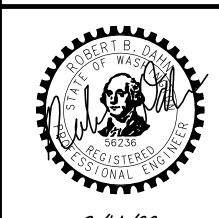
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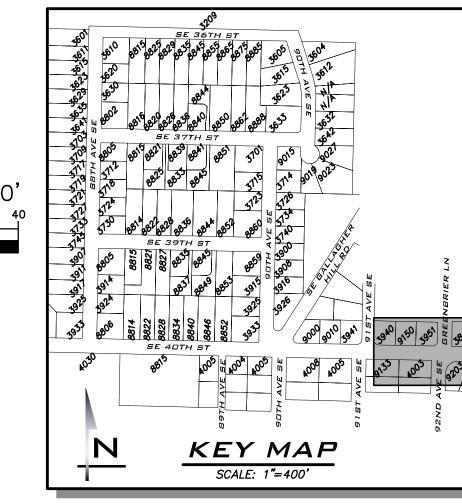


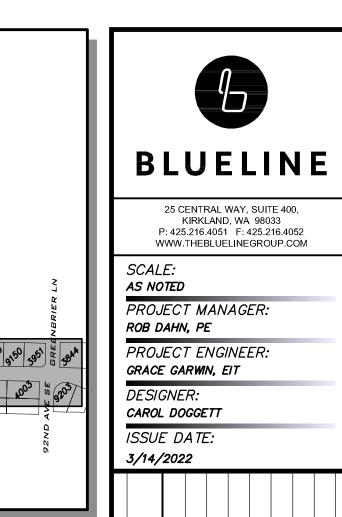
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PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
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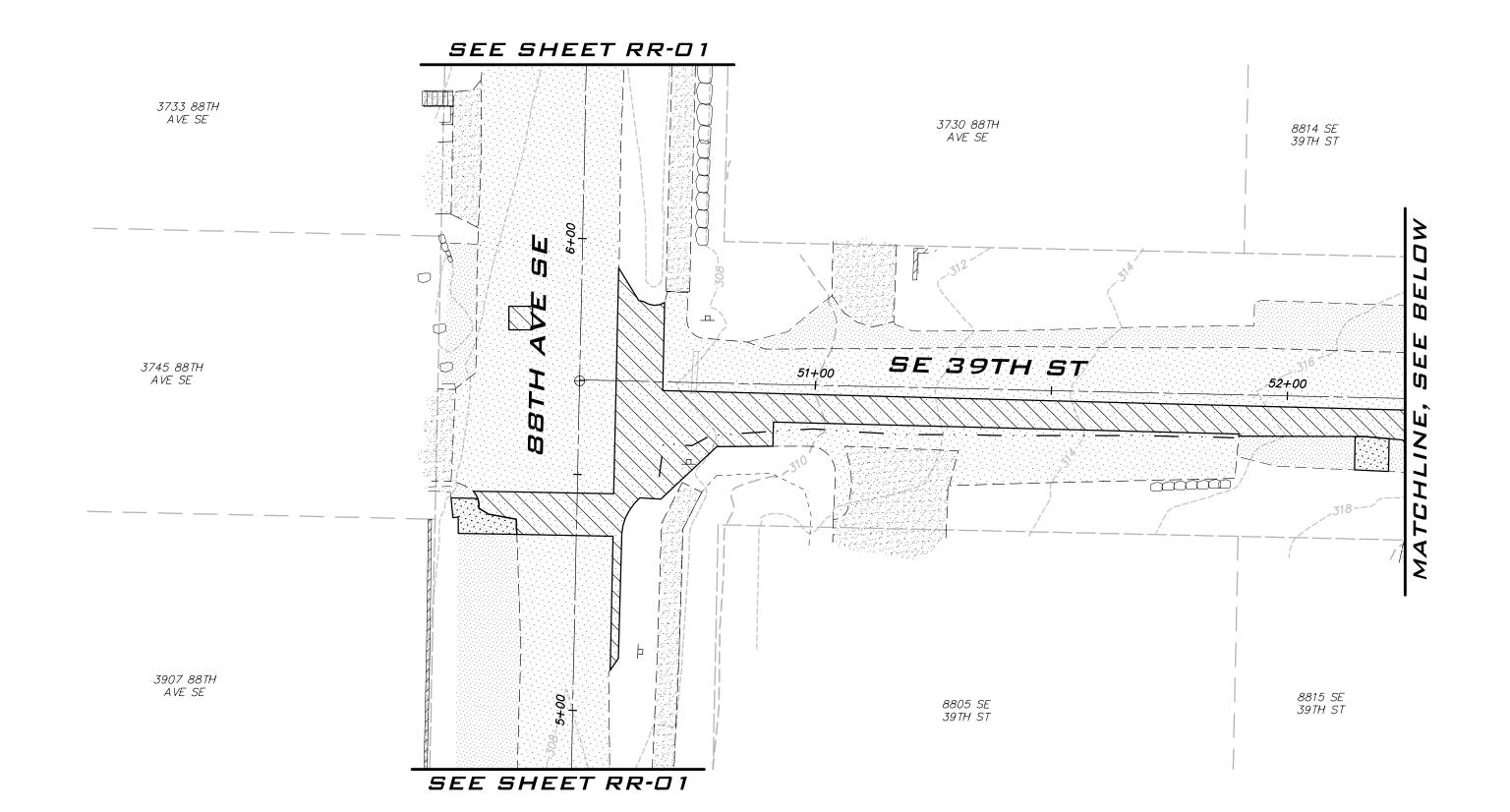
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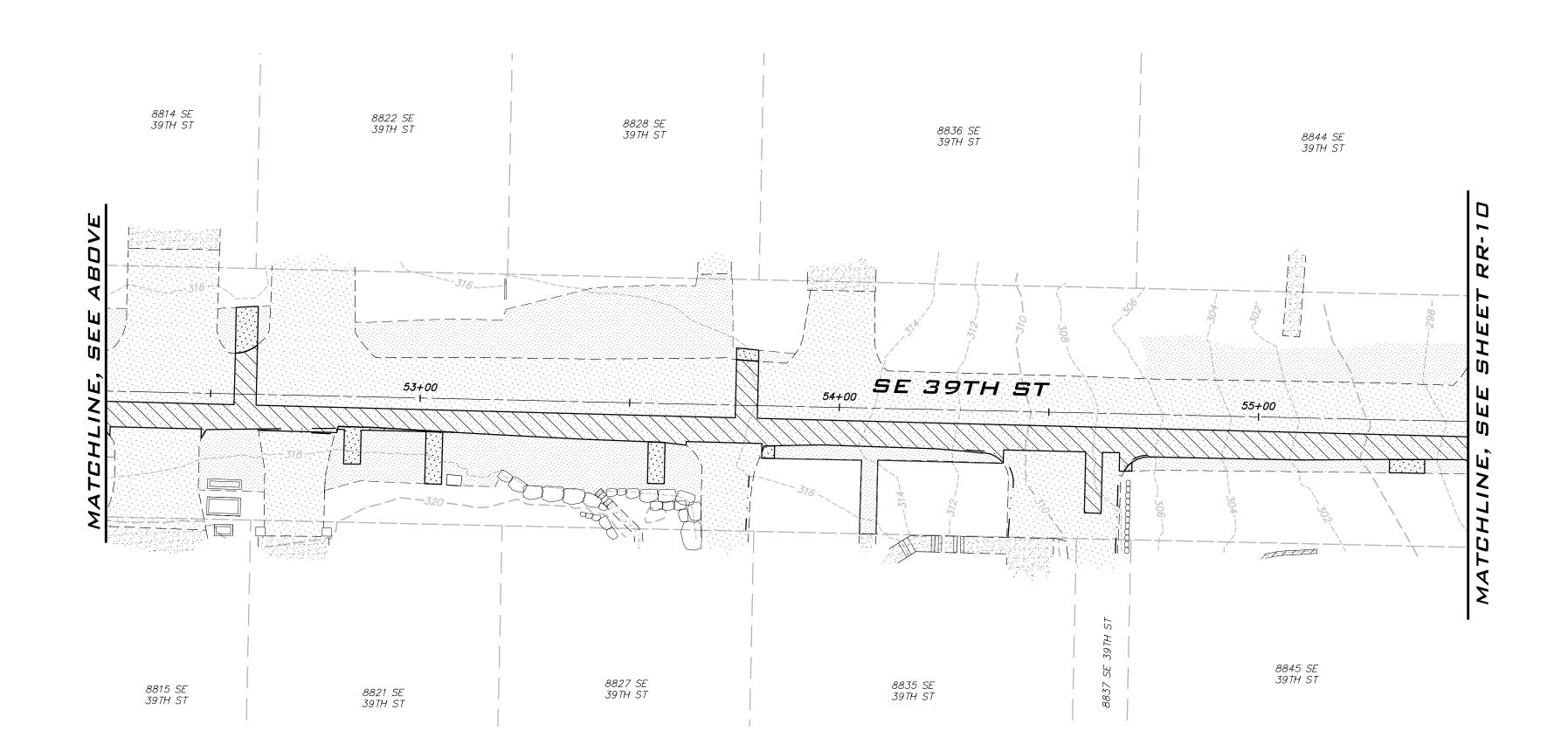
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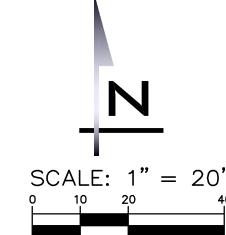
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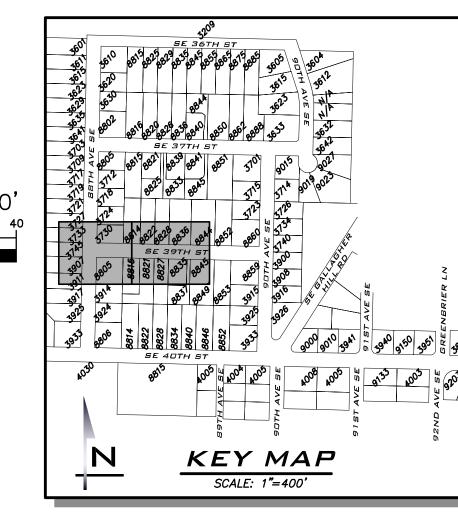
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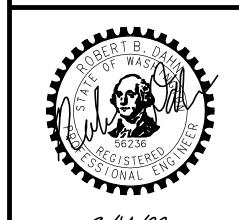
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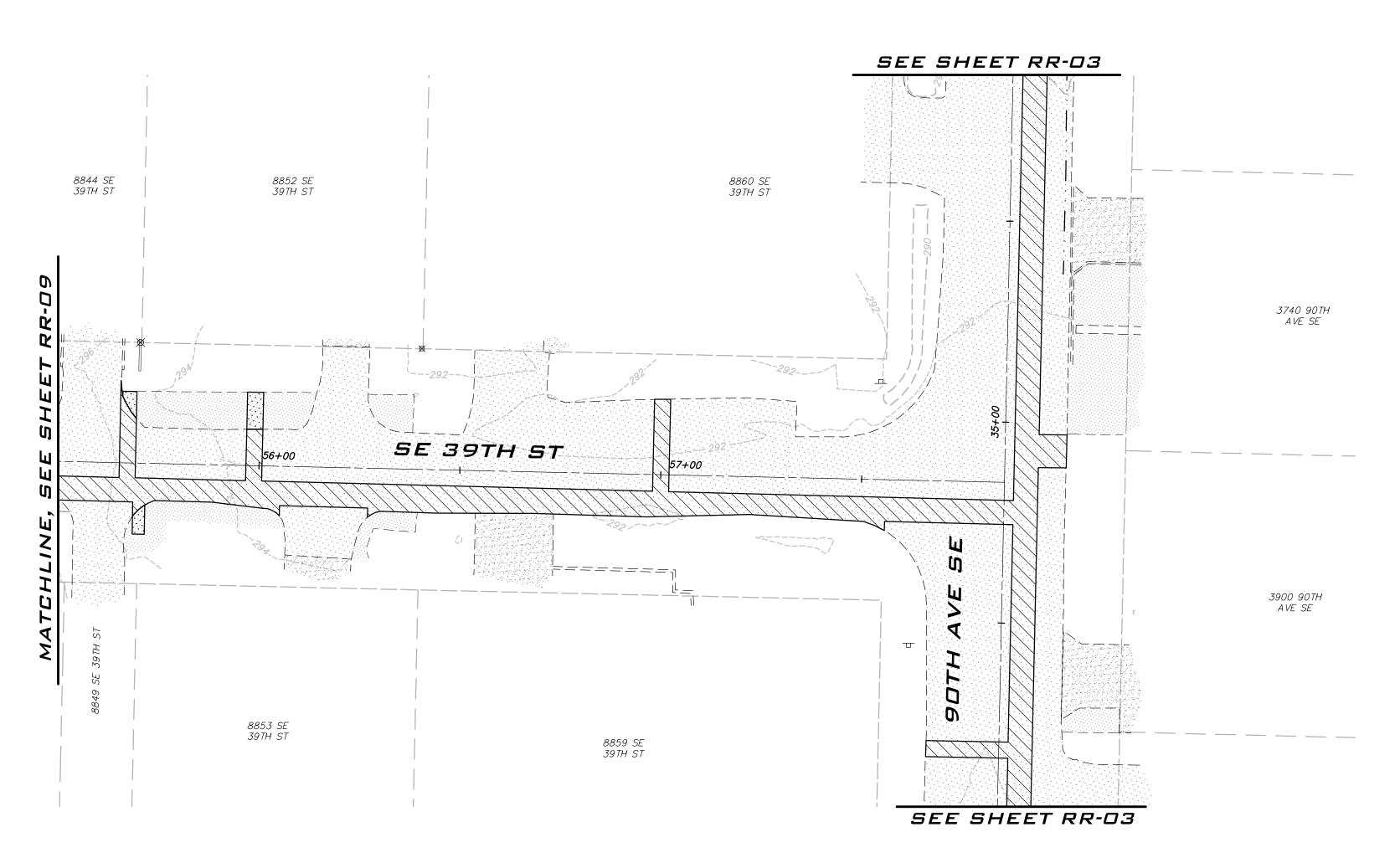


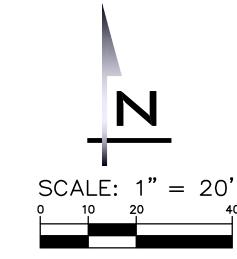
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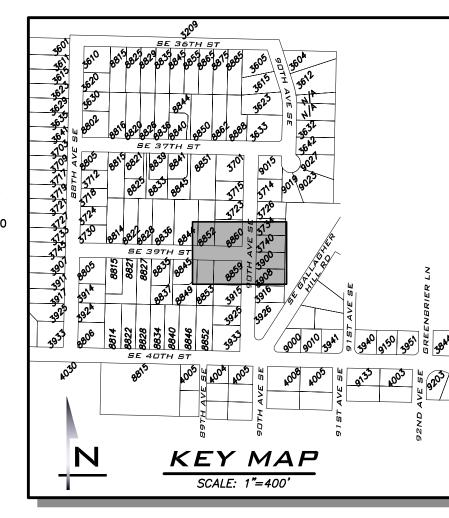
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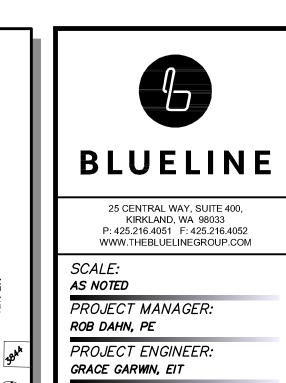
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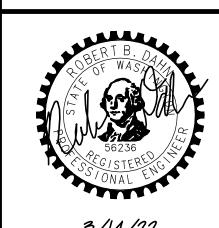
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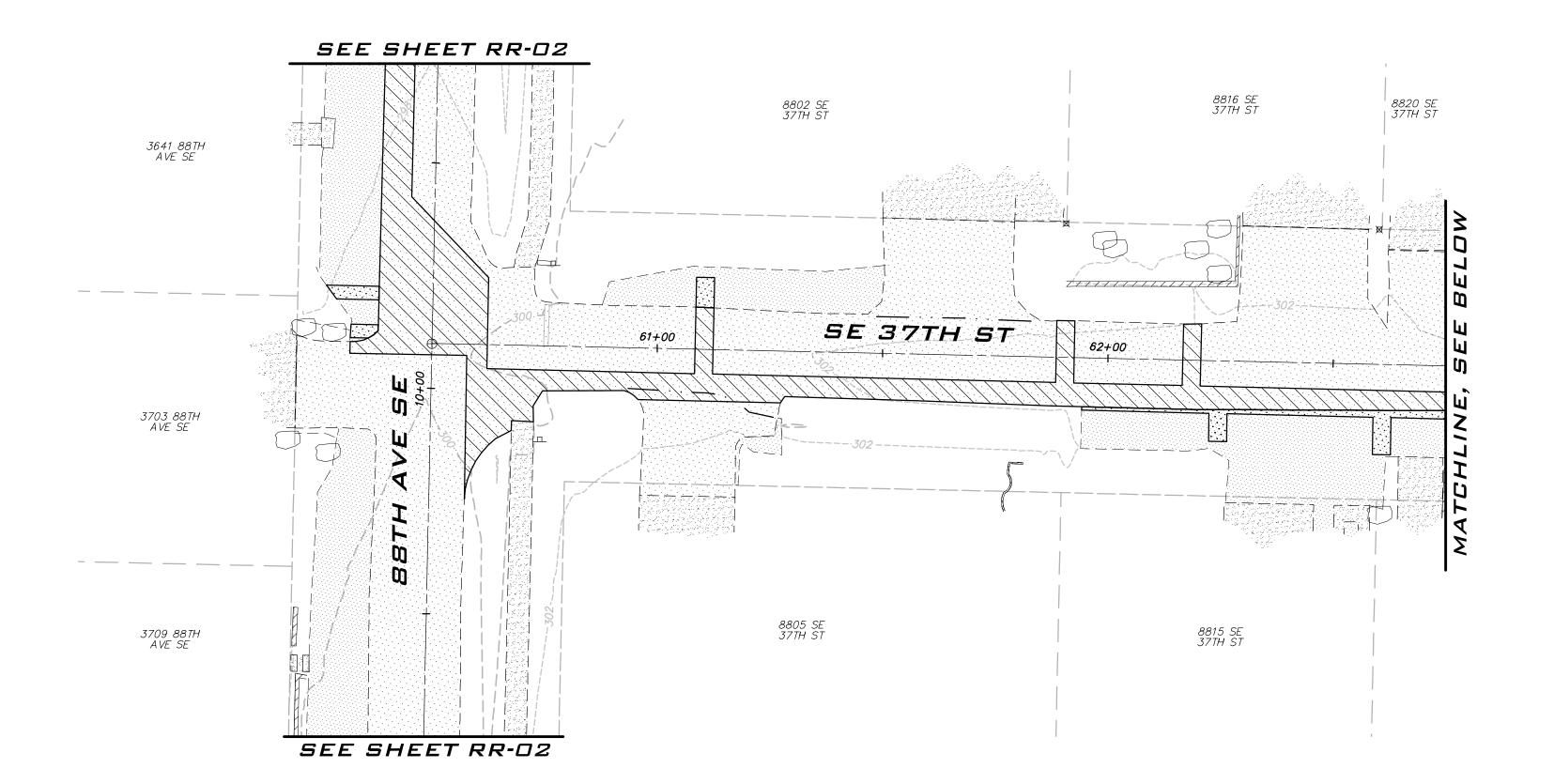
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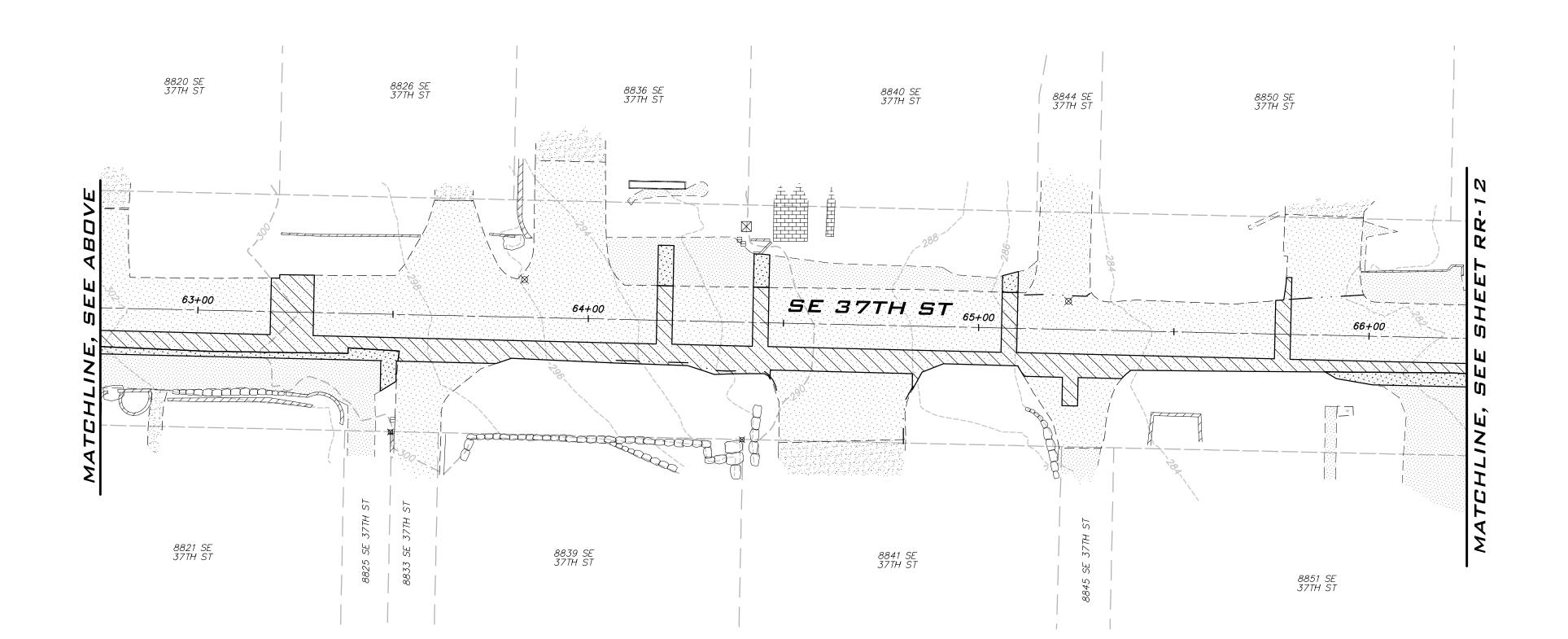


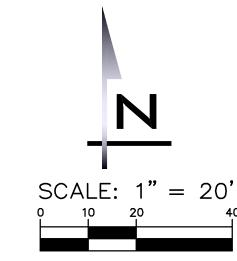
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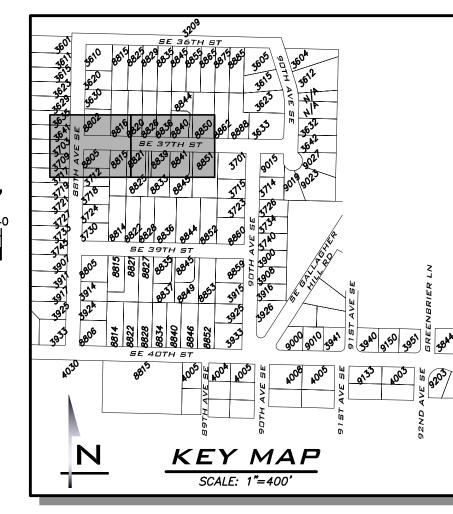
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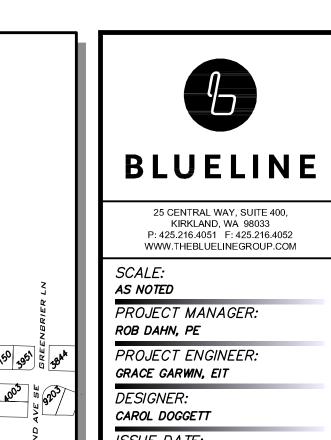
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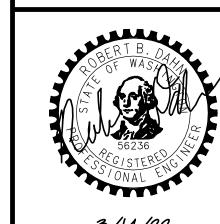
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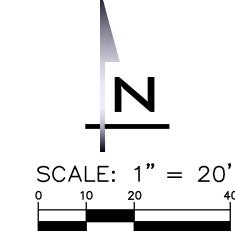


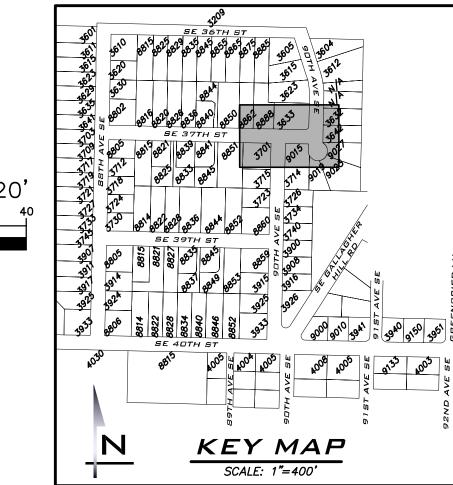
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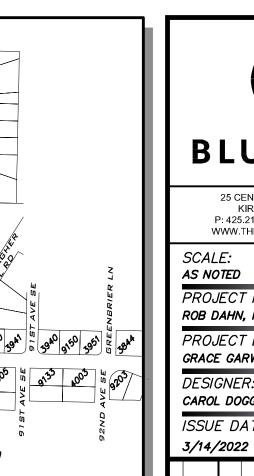
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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED PROJECT MANAGER:

ROB DAHN, PE PROJECT ENGINEER: GRACE GARWIN, EIT

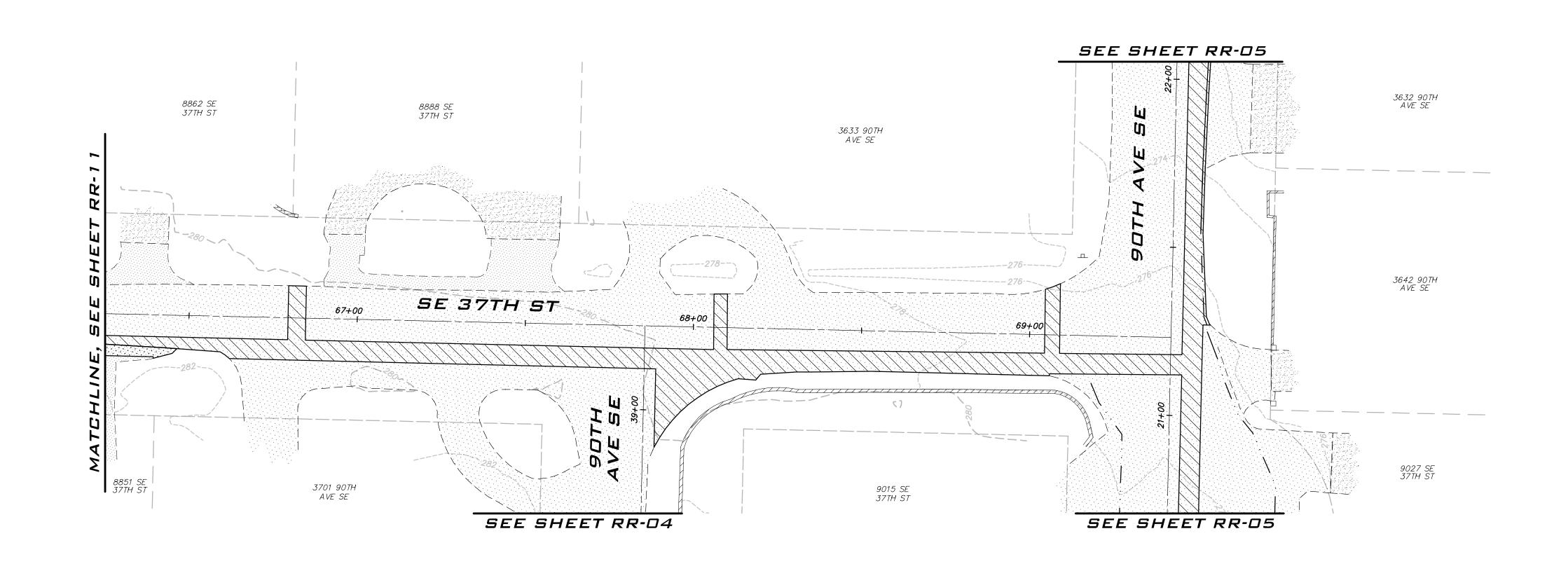
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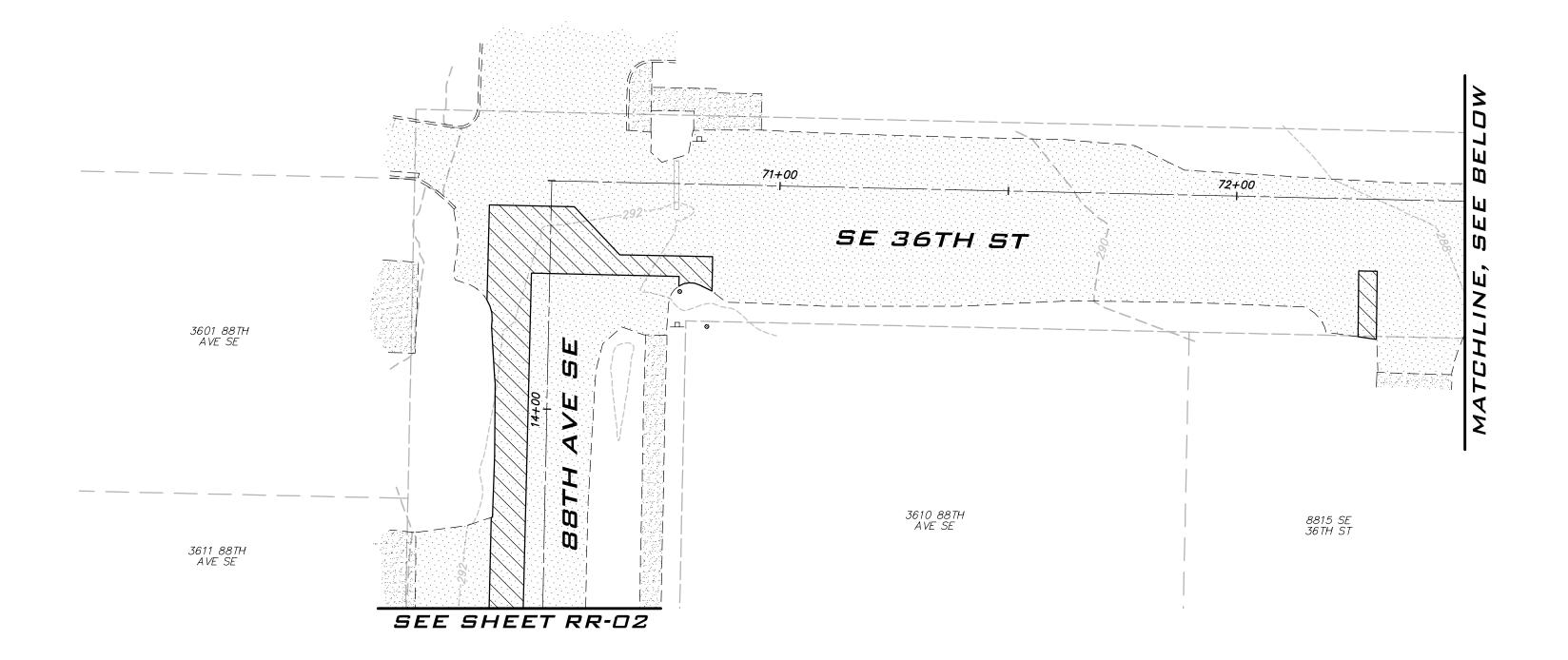
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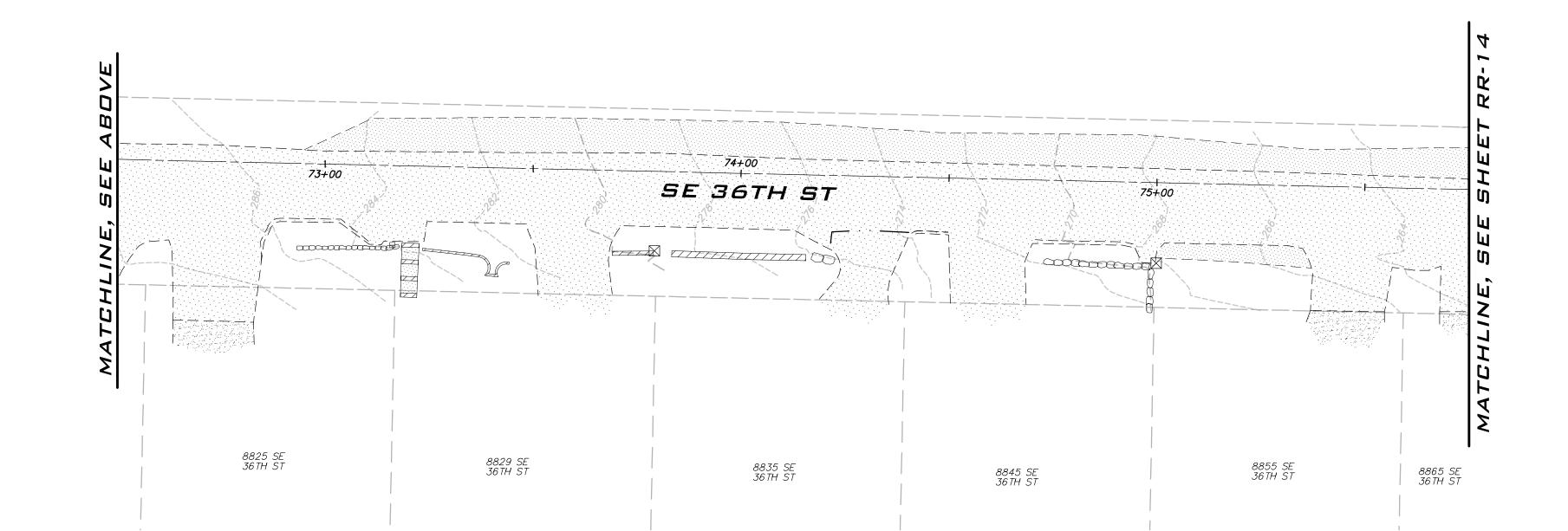
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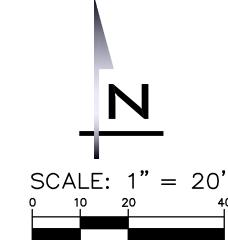
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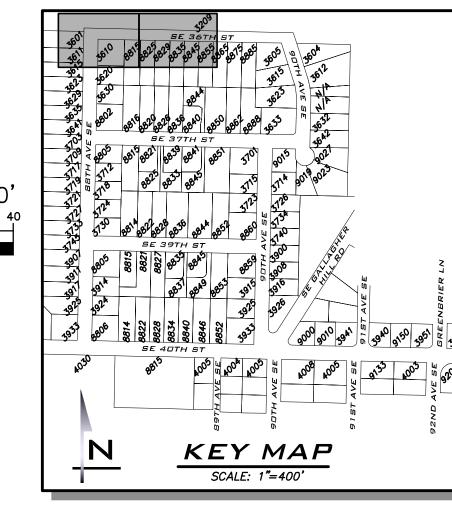
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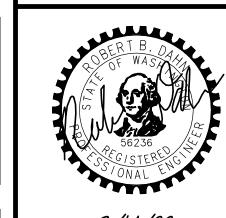
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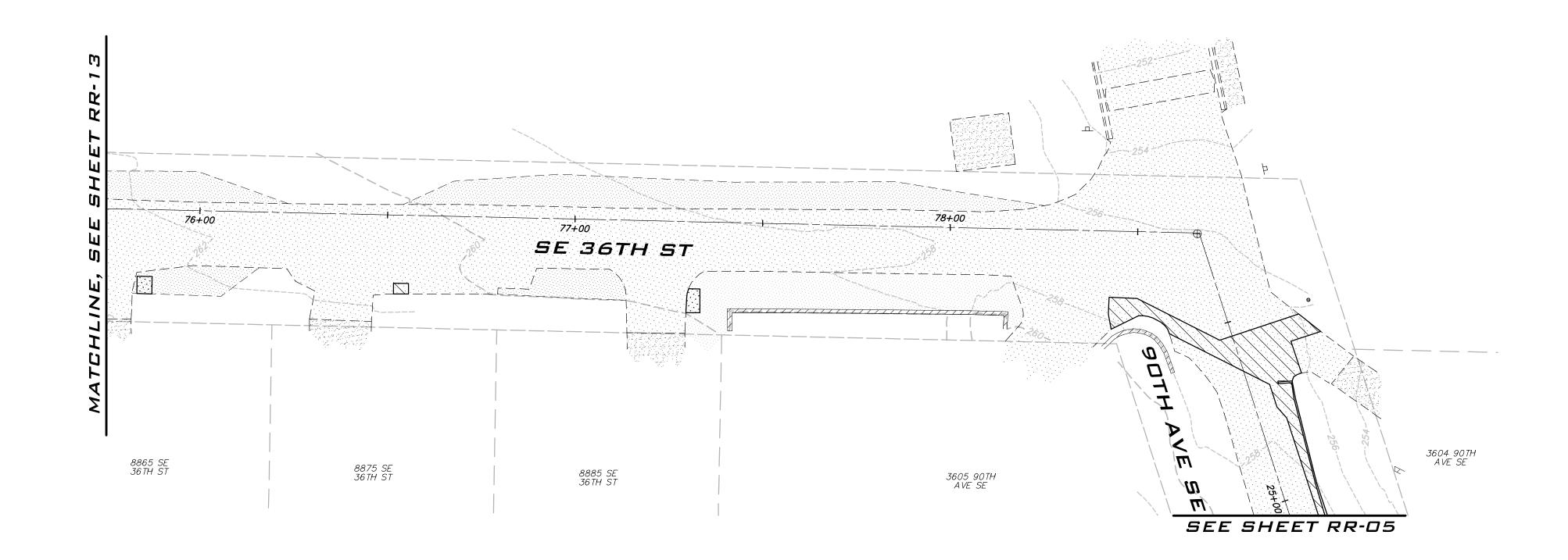


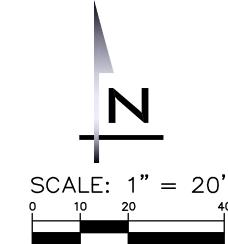
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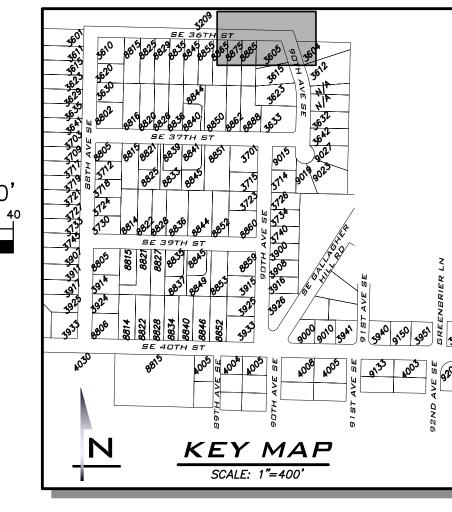
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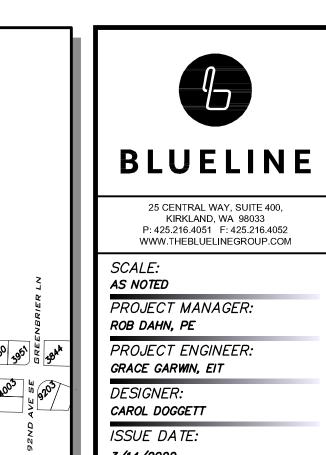
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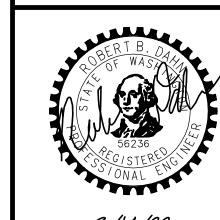
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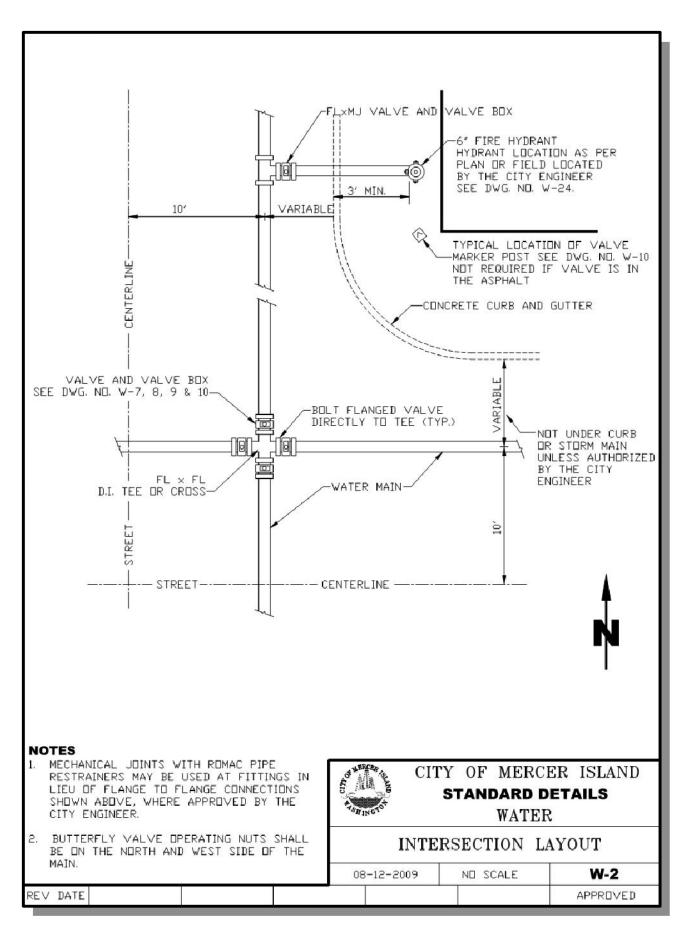


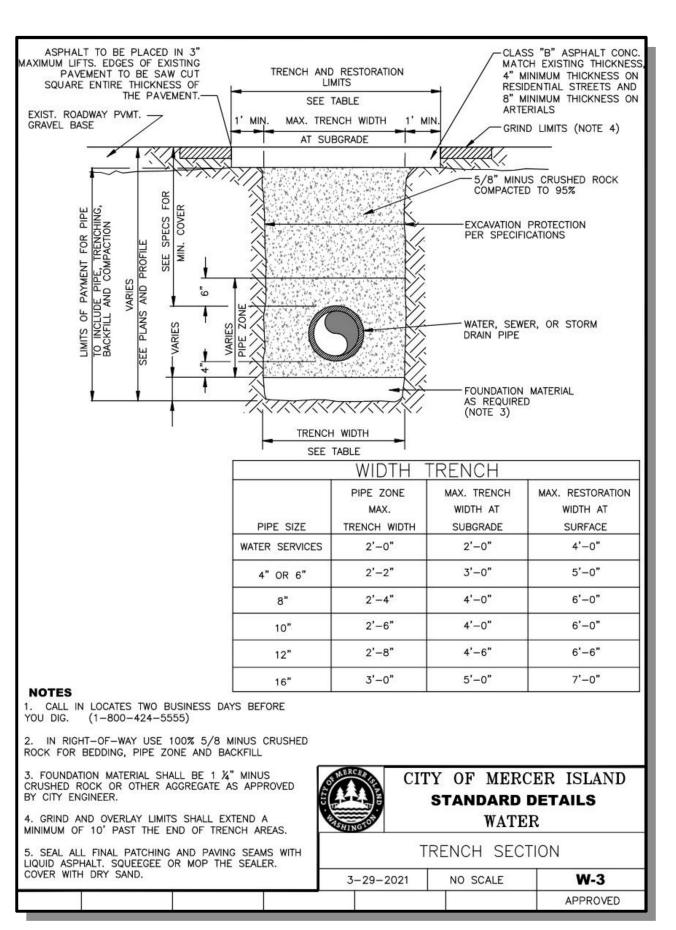
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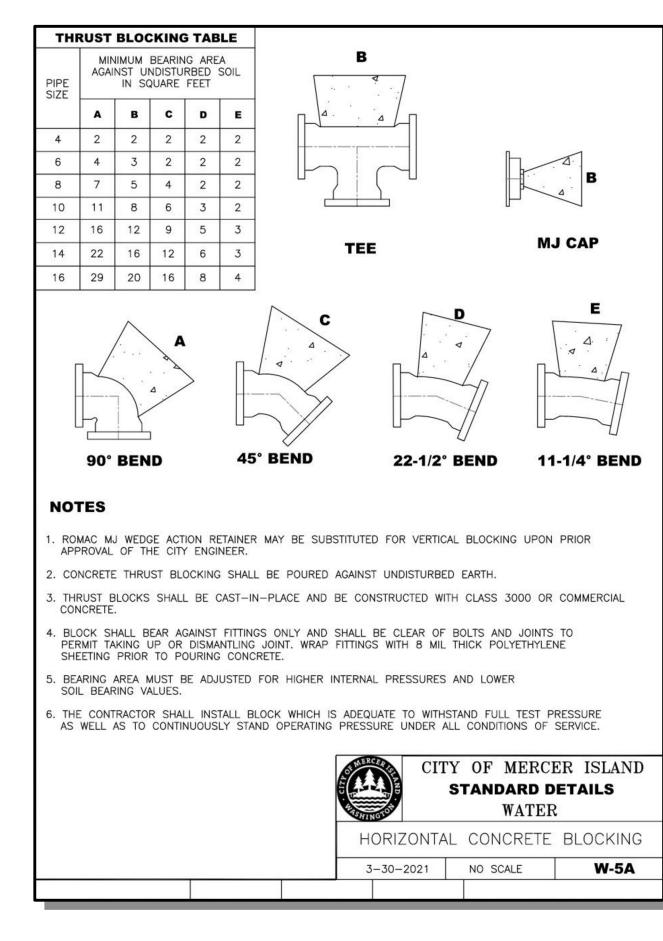
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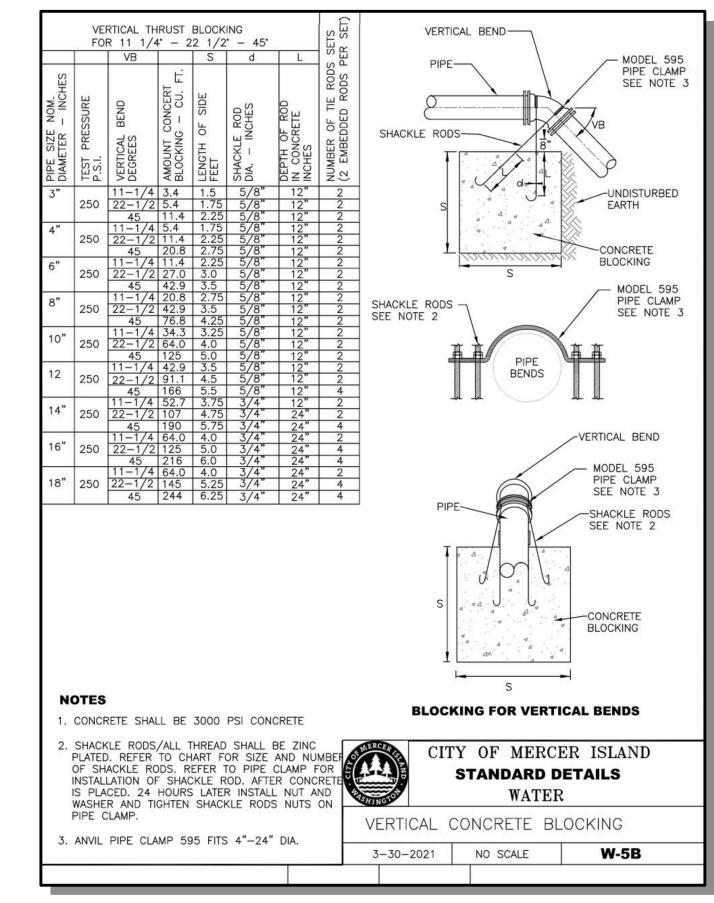
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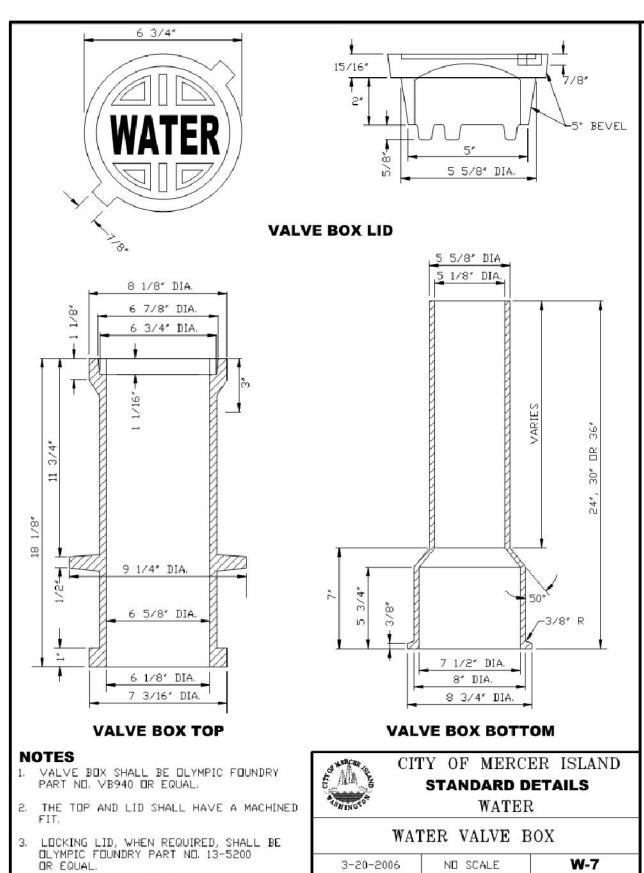
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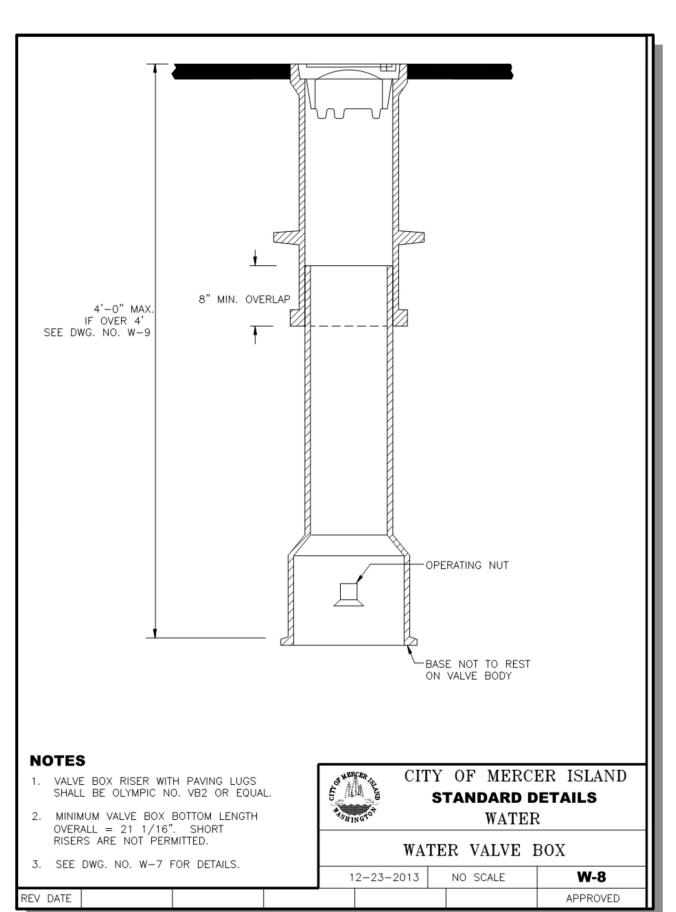


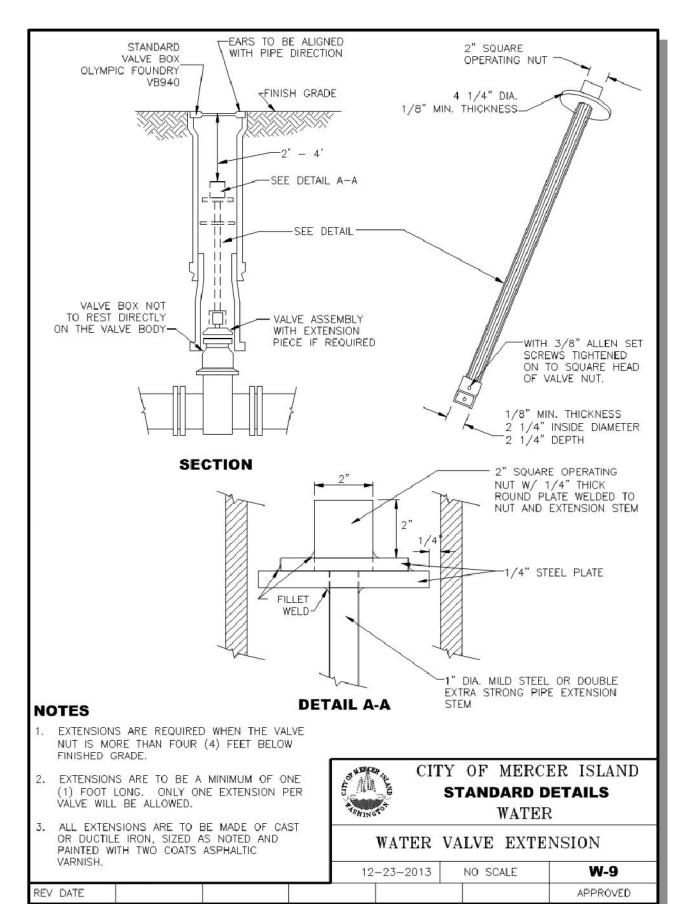


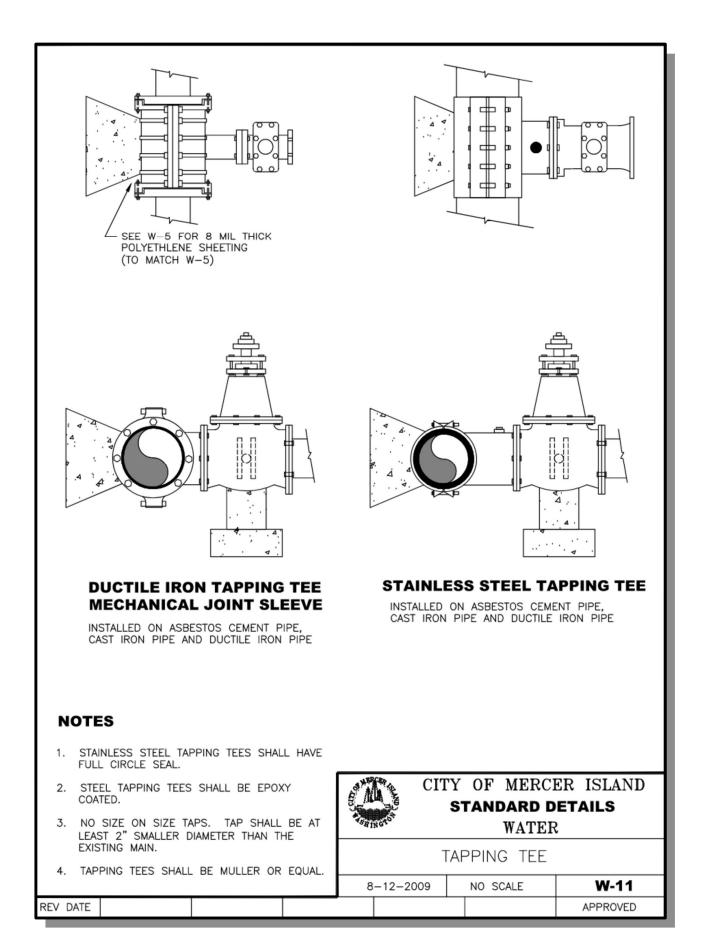


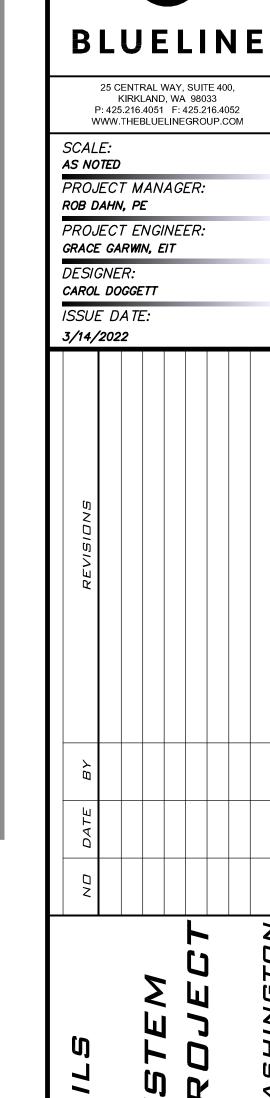


APPROVED









STANDARD DETAILS

2022 WATER SYSTI

MPROVEMENTS PRO



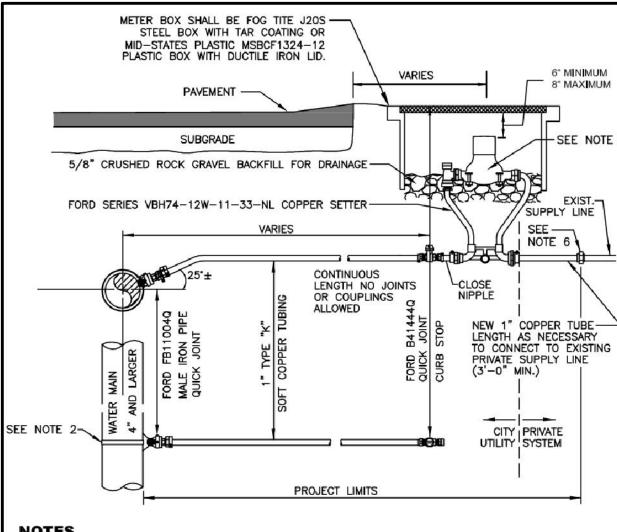
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JOB NUMBER: **21-303**

DT-01

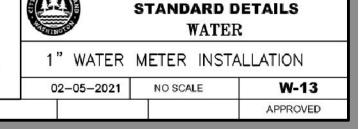
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REV DATE

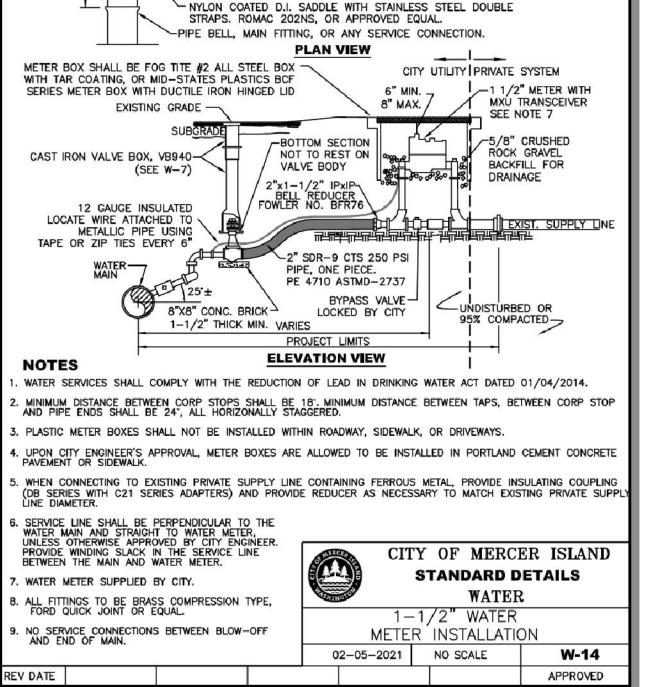


- . WATER SERVICES SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT DATED 01/04/2014. 2. ON EXISTING WATER MAINS USE NYLON COATED D.I. SADDLE WITH STAINLESS STEEL DOUBLE STRAPS, ROMAC 202NS, OR APPROVED EQUAL.
- 3. MINIMUM DISTANCE BETWEEN CORP STOPS SHALL BE 18". MINIMUM DISTANCE BETWEEN TAPS, BETWEEN CORP STOP AND PIPE ENDS SHALL BE 24", ALL HORIZONALLY STAGGERED.
- 4. PLASTIC METER BOXES SHALL NOT BE INSTALLED WITHIN ROADWAY, SIDEWALK, OR DRIVEWAYS.
- 5. UPON CITY ENGINEER'S APPROVAL, METER BOXES ARE ALLOWED TO BE INSTALLED IN PORTLAND CEMENT CONCRETE PAVEMENT OR SIDEWALK.
- 3. WHEN CONNECTING TO EXISTING PRIVATE SUPPLY LINE CONTAINING FERROUS METAL, PROVIDE INSULATING COUPLING (DB SERIES WITH C21 SERIES ADAPTERS) AND PROVIDE REDUCER AS NECESSARY TO MATCH EXISTING PRIVATE SUPPLY LINE DIAMETER.
- 7. SERVICE LINE SHALL BE PERPENDICULAR TO THE WATER MAIN AND STRAIGHT TO WATER METER, UNLESS OTHERWISE APPROVED BY CITY ENGINEER. PROVIDE WINDING SLACK IN THE SERVICE LINE BETWEEN THE MAIN AND WATER METER.
- B. WATER METER SUPPLIED BY CITY.
- ALL FITTINGS TO BE BRASS COMPRESSION TYPE, FORD QUICK JOINT OR EQUAL.

10. NO SERVICE CONNECTIONS BETWEEN BLOW-OFF REV DATE



CITY OF MERCER ISLAND



-2" SDR-9 CTS 250 PSI PIPE, ONE PIECE.

PE 4710 ASTMD-2737

2" x 1 1/2" IPxIP-

FOWLER NO. BFR76

2" COMPRESSION

FITTINGS FORD

C8477Q

~2" CTS QUICK JOINT STIFFENER FORD NO. 55Q

~2" GATE VALVE CONFORMING TO AWWA C509

-2" THREADED BRASS NIPPLE LENGTH VARIES

BELL REDUCER

2-2" BRASS 90 DEGREE-

1-2x3" BRASS NIPPLE-

2" BALL CORP-

FORD FB5007

2" BRASS 90 DEGREE -

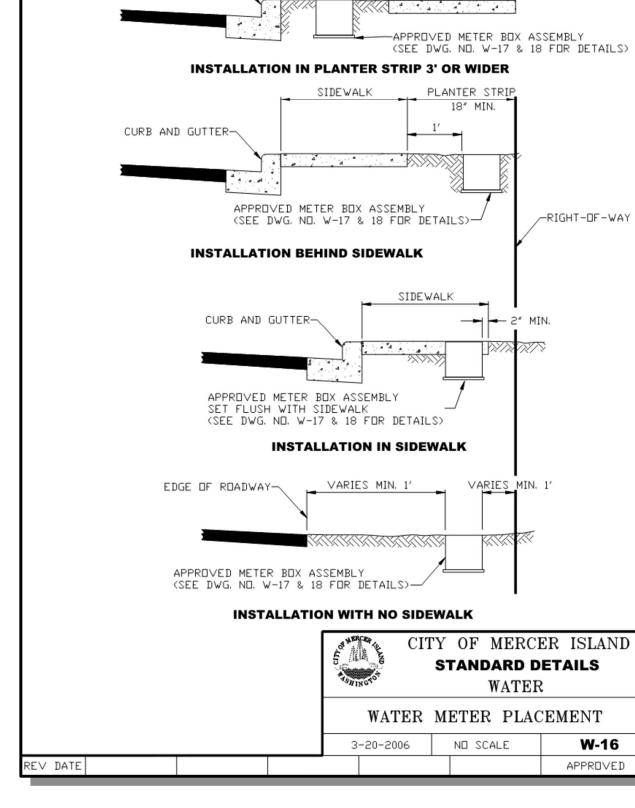
IPXIP TYPE THREAD

-FORD ALL BRASS AND COPPER CUSTOM SETTERS 1-1/2" FORD VBH76-12B-11-66-N

1 1/2" COPPER PIPE

BYPASS VALVE COPPER PIPE TYPE L

30"MAX. EXIST. PRIVATE SUPLY LINE



PLANTER STRIP

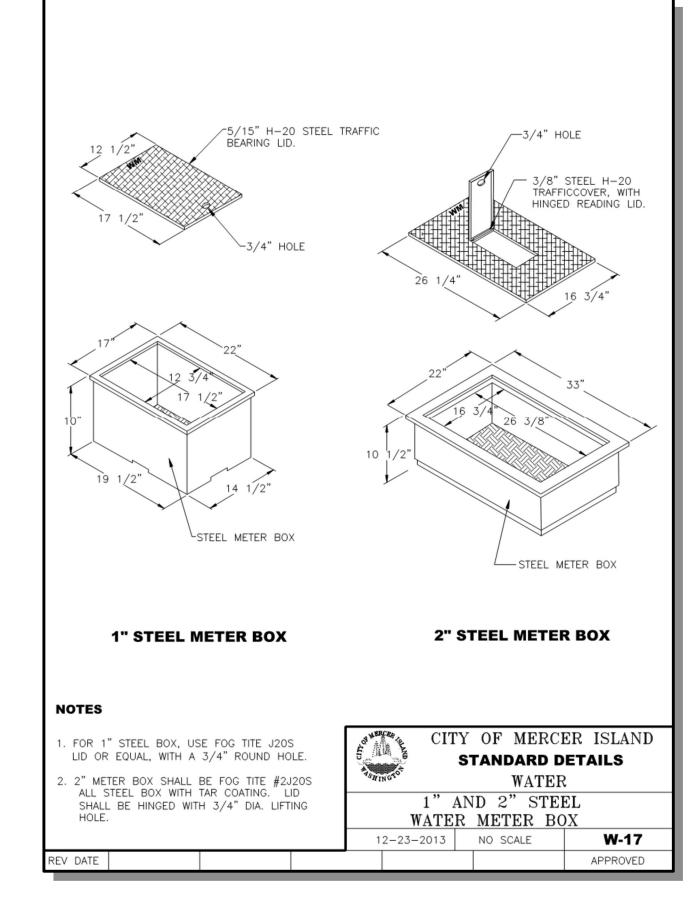
3′ MIN.

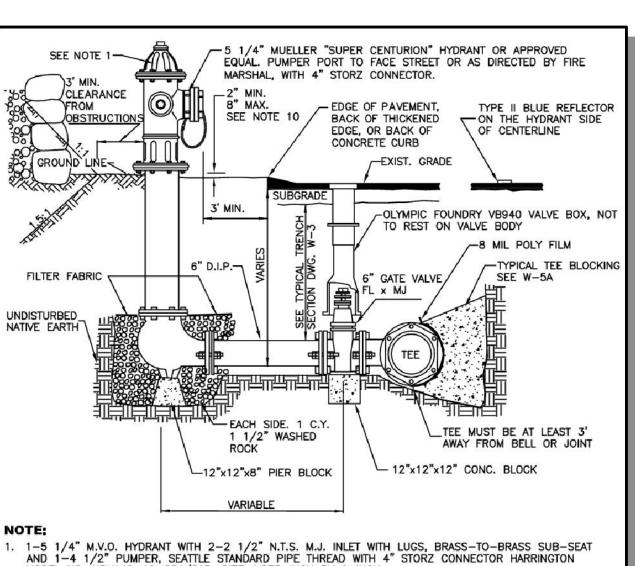
CURB AND GUTTER-

SIDEWALK

W-16

APPROVED





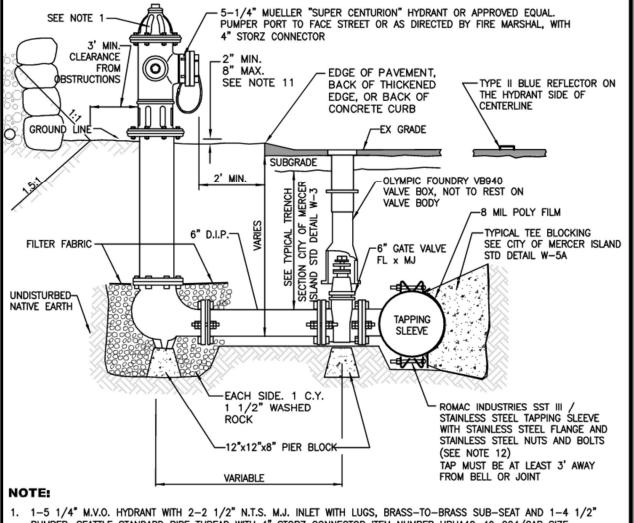
- MODEL NO. HPHA40-40-004/CAP, SIZE 4.875-INCH BY 6-INCH.
- NO DOMESTIC CONNECTIONS CAN BE MADE TO THE FIRE HYDRANT RUNS.
- ANY FIRE HYDRANT RUN OVER 18 FEET IN LENGTH OF PIPE SHALL HAVE RESTRAINED JOINT
- 4. USE ROMA GRIP, OR APPROVED EQUAL, PIPE RESTRAINERS AT VALVE AND HYDRANT BASE.
- HYDRANT SHALL BE PAINTED WITH 2 COATS OF FARWEST #250 HIGH GLOSS WHITE PAINT, OR APPROVED EQUAL, APPLIED WITH A PAINT BRUSH. DO NOT APPLY PAINT TO STORZ FITTING, BRASS PORT THREADS, OR BELOW SAFETY FLANGE.
- BOLLARDS MAY BE USED TO PROTECT THE HYDRANT WHEN NO CURBS ARE PRESENT OR IN EXPOSED AREAS OF PARKING LOTS.
- STRAIGHT PIPE TO HYDRANTS FROM MAIN,
- NO BENDS. REMOVE CHAINS FROM HYDRANT CAPS.
- VALVE AND HYDRANT MUST BE PLUMB. 10. THIS DISTANCE IS MEASURED FROM BOTTOM OF
- SAFETY FLANGE TO LEVEL OF FINISH GRADE BELOW HYDRANT. REV DATE



CITY OF MERCER ISLAND STANDARD DETAILS WATER

FIRE HYDRANT CONNECTION W-24 02-23-2021 NO SCALE

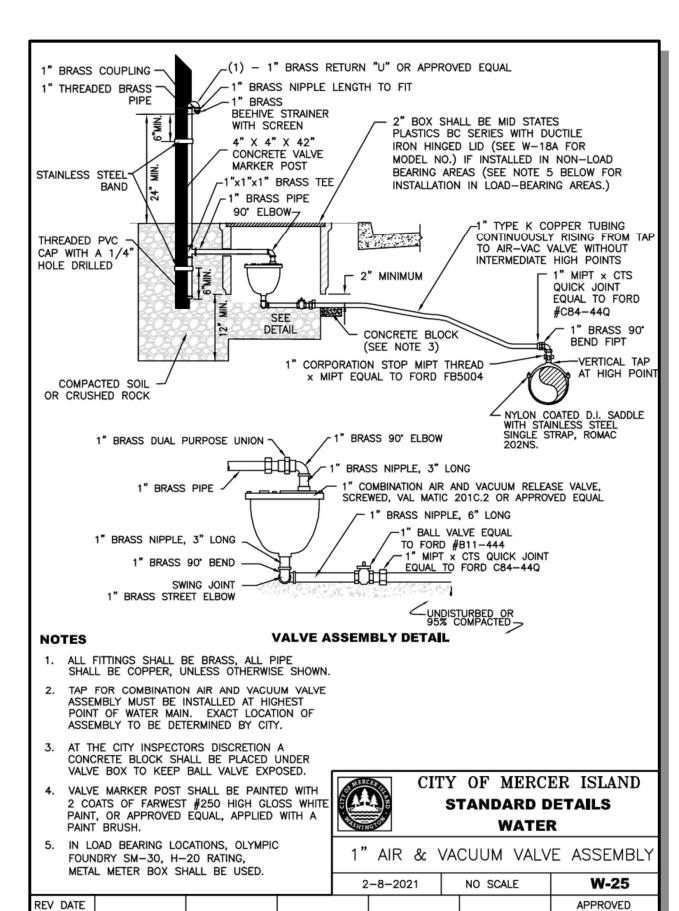
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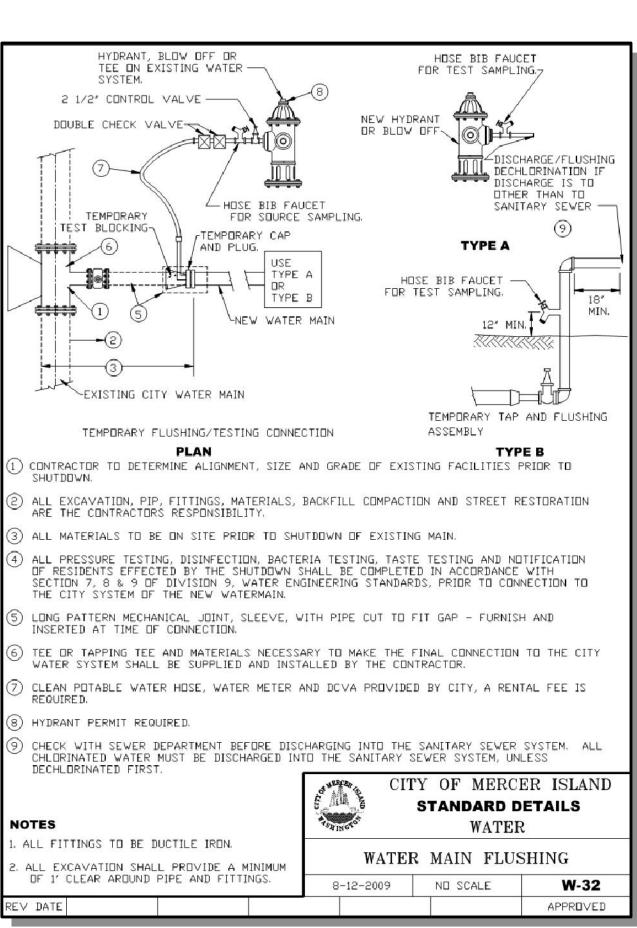


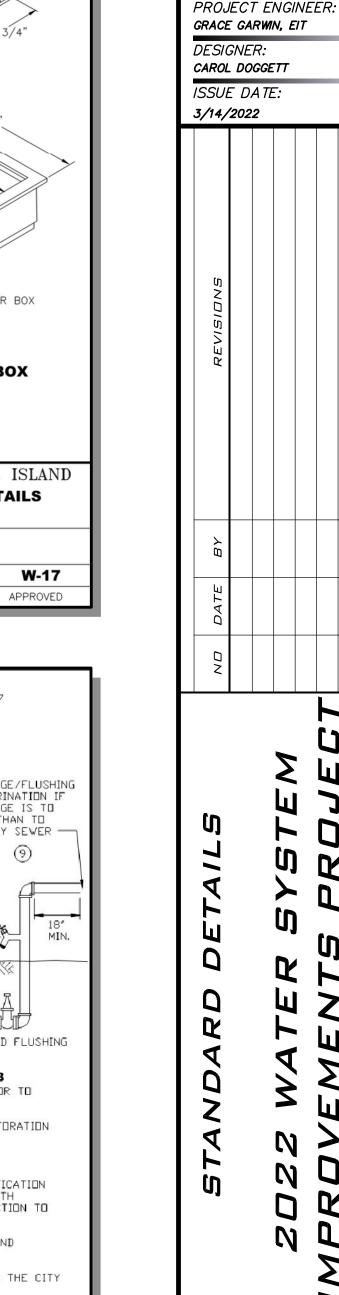
- PUMPER, SEATTLE STANDARD PIPE THREAD WITH 4" STORZ CONNECTOR ITEM NUMBER HPHA40-40-004/CAP SIZE 4.875-INCH BY 6-INCH.
- WET TAP IS ALLOWED ONLY UPON CITY'S APPROVAL. NO SIZE ON SIZE WET TAPS.
- . NO DOMESTIC CONNECTIONS CAN BE MADE TO THE FIRE HYDRANT RUNS.
- ANY FIRE HYDRANT RUN OVER 18 FEET IN LENGTH OF PIPE SHALL HAVE RESTRAINED JOINT GASKETS.
- USE ROMA GRIP, OR APPROVED EQUAL, PIPE RESTRAINERS AT VALVE AND HYDRANT BASE.
- HYDRANT SHALL BE PAINTED WITH 2 COATS OF FARWEST #250 HIGH GLOSS WHITE PAINT, OR APPROVED EQUAL, APPLIED WITH A PAINT BRUSH. DO NOT APPLY PAINT TO STORZ FITTING, BRASS PORT THREADS, OR BELOW SAFETY FLANGE.
- BOLLARDS MAY BE USED TO PROTECT THE HYDRANT ONLY IN PARKING LOTS WHEN NO CURBS ARE PRESENT OR IN
- EXPOSED AREAS OF PARKING LOTS.
- STRAIGHT PIPE TO HYDRANTS FROM MAIN, NO BENDS.
- . REMOVE CHAINS FROM HYDRANT CAPS.
- 10. VALVE AND HYDRANT MUST BE PLUMB.
- THIS DISTANCE IS MEASURED FROM BOTTOM OF SAFETY FLANGE TO LEVEL OF FINISH GRADE BELOW HYDRANT.

2. TAPPING SLEEVE O.D. (OUTSIDE DIAMETER) RANGE MUST BE COMMENSURATE WITH PIPE O.D. REV DATE

CITY OF MERCER ISLAND STANDARD DETAILS FIRE HYDRANT ASSEMBLY -WET TAP INSTALLATION 02-23-2021 NO SCALE W-24A APPROVED







3/14/22

JOB NUMBER: 21-303 SHEET NAME: DT-02

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BLUELINE

25 CENTRAL WAY, SUITE 400.

P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

PROJECT MANAGER:

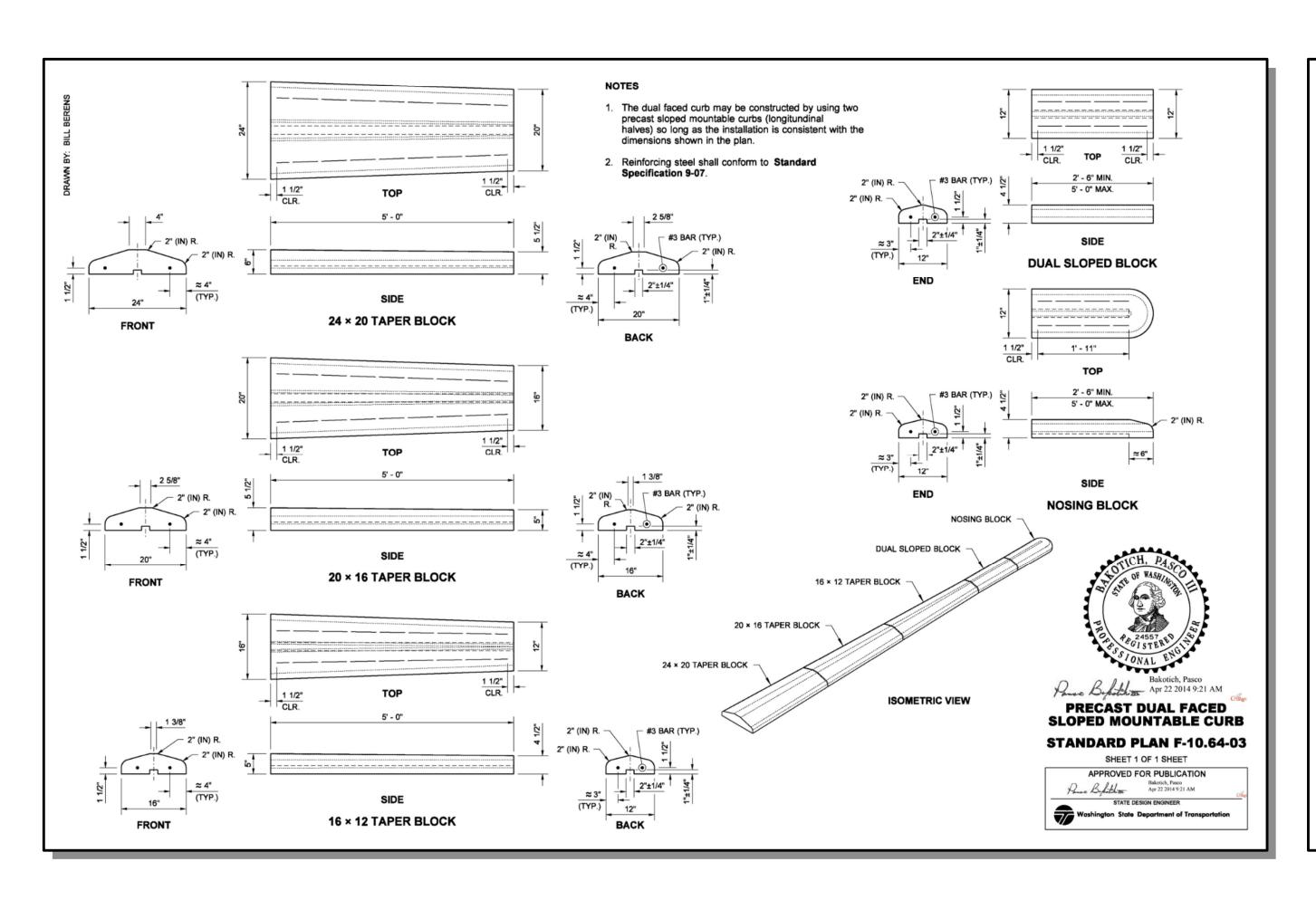
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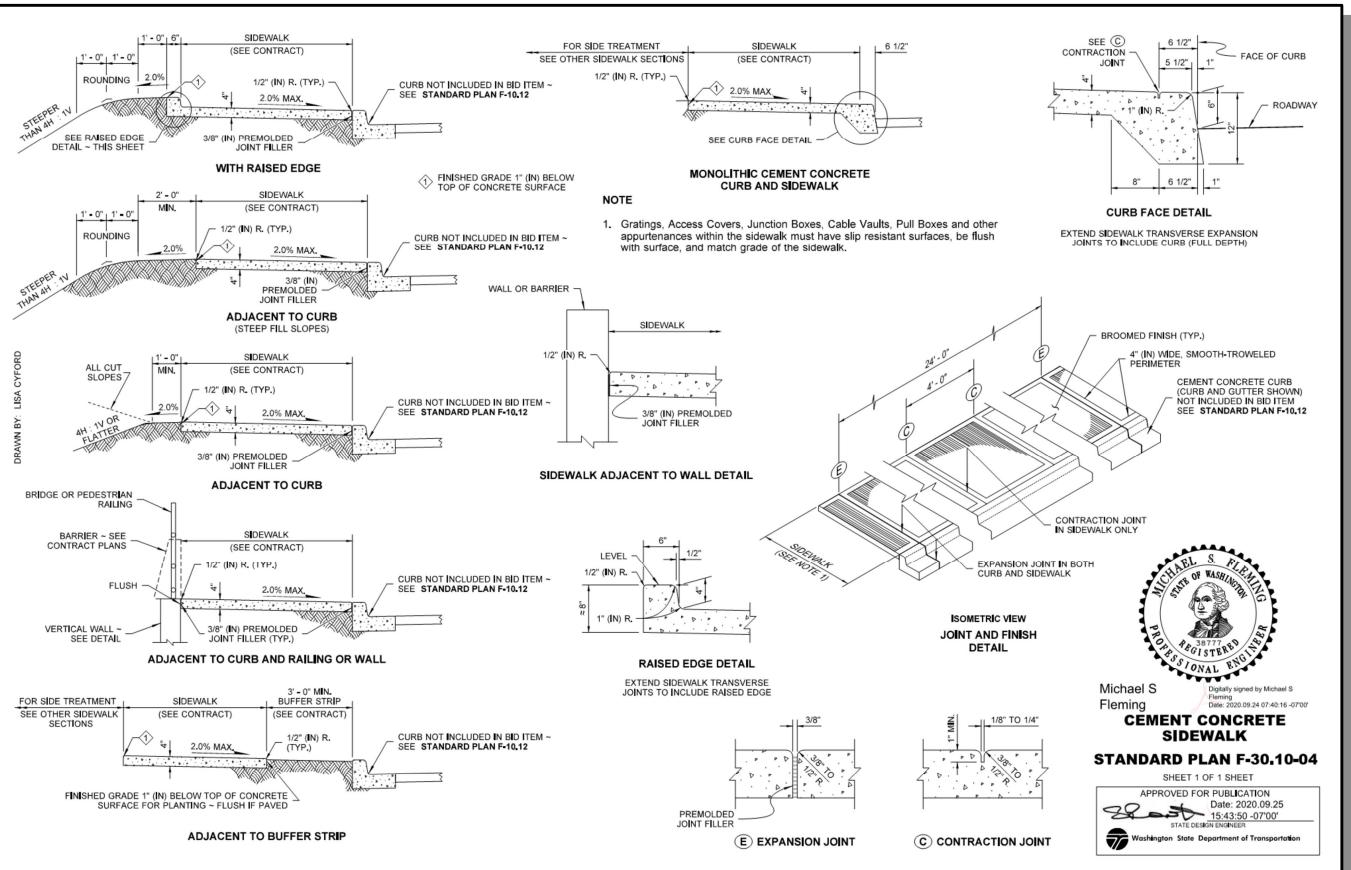
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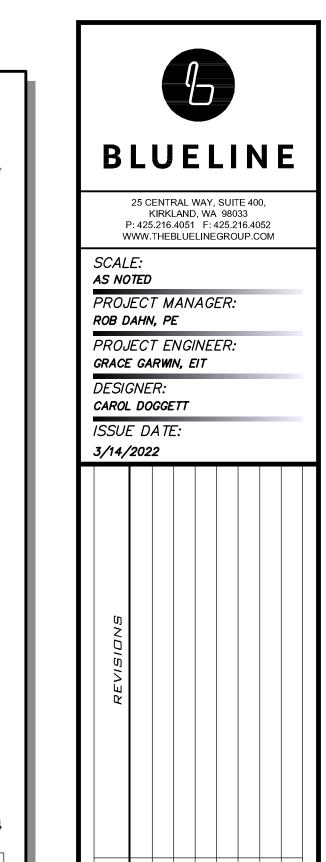
ROB DAHN, PE

KIRKLAND WA 98033

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SIANDARD DEIAILS

ZOZZ WATER SYSTE



3/14/22

JOB NUMBER: **21-303**

DT-03

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