

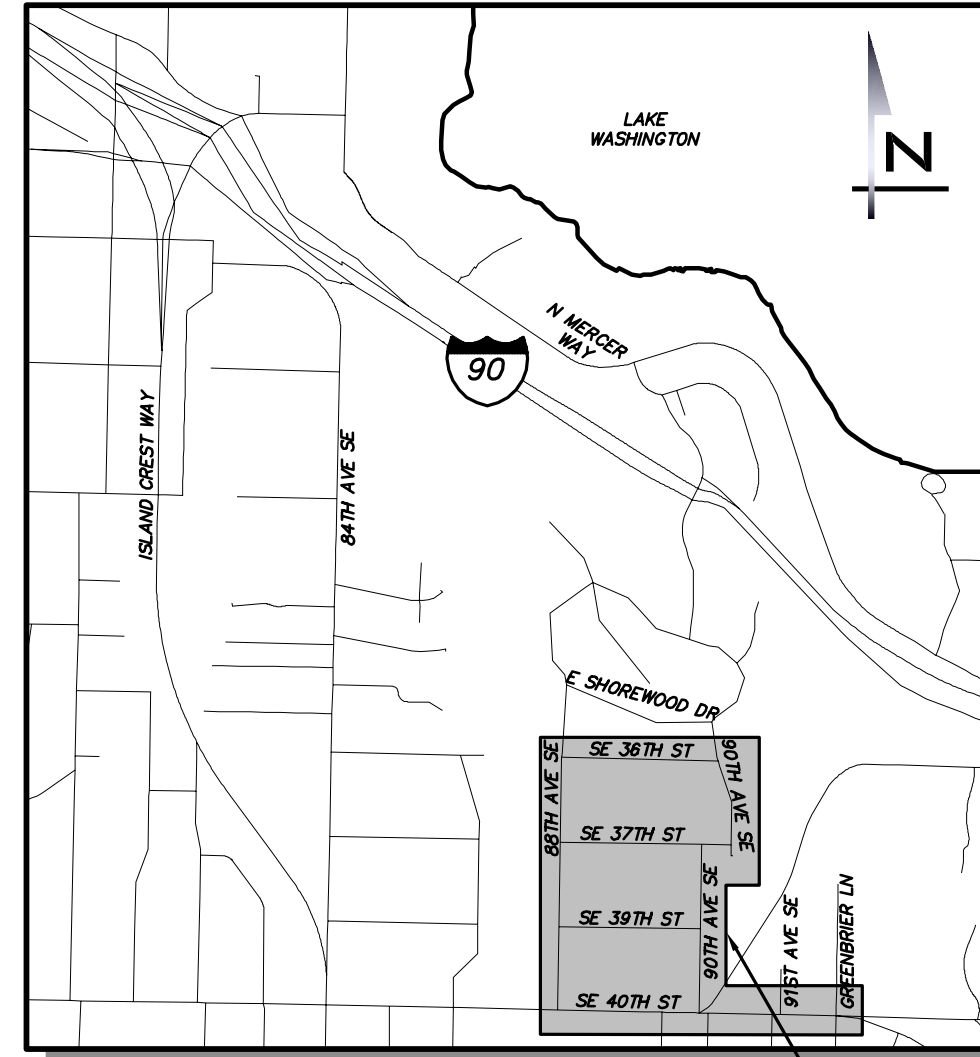
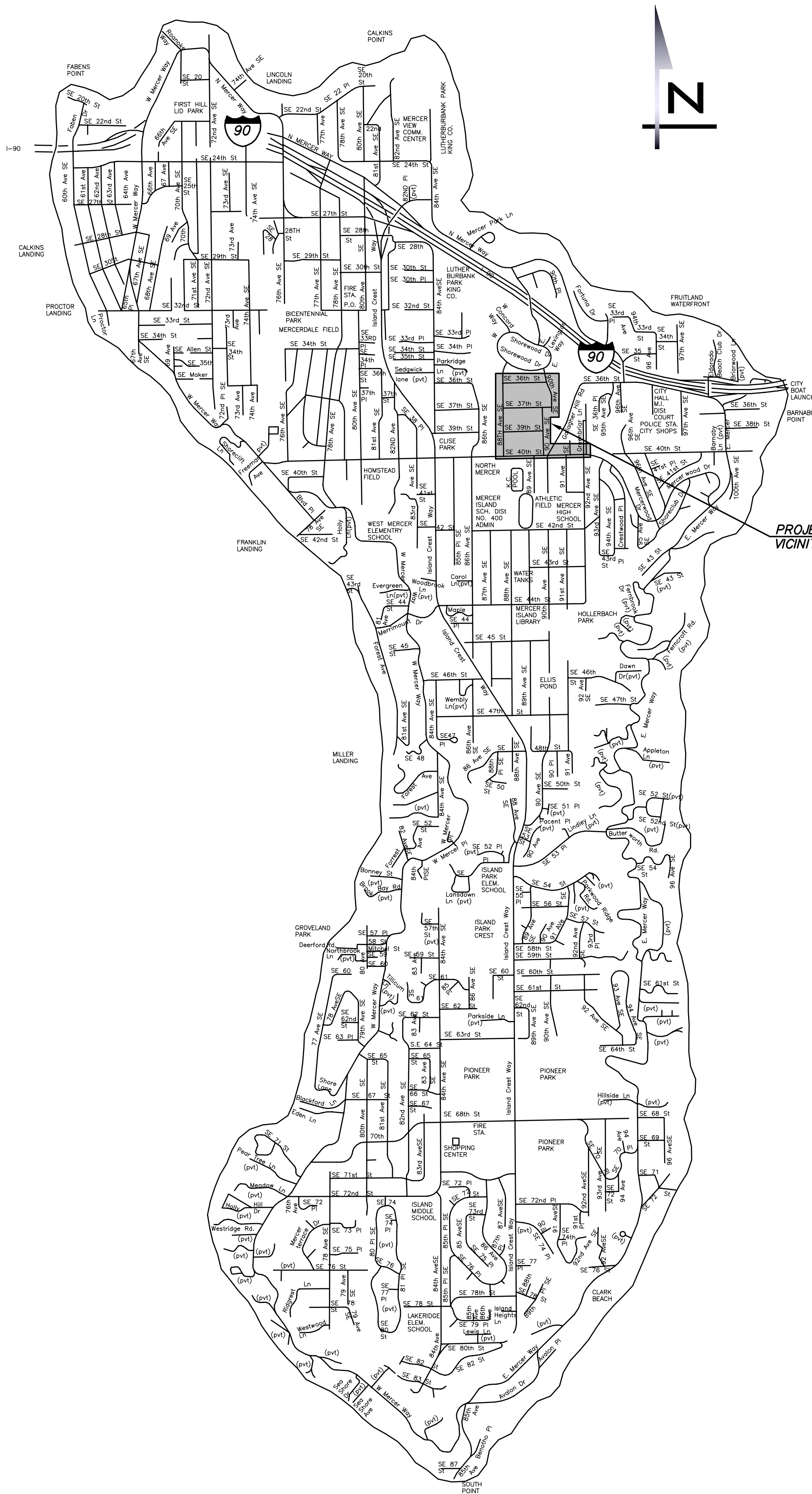
CITY OF MERCER ISLAND

2022 WATER SYSTEM IMPROVEMENTS PROJECT



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VICINITY MAP
NOT TO SCALE
PROJECT AREA

PROJECT AREA, SEE VICINITY MAP, THIS SHEET

PROJECT TEAM

CIVIL ENGINEER
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 25 CENTRAL WAY, SUITE 400
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CITY CONTACT

PROJECT MANAGER
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 CITY OF MERCER ISLAND
 CIP PROJECT MANAGER
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 MERCER ISLAND, WA 98040
 (206) 640-5379
 GEORGE.FLETCHER@MERCERGOV.COM

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.

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SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGETT

ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS

COVER SHEET

2022 WATER SYSTEM IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON

3/14/22

JOB NUMBER:
21-303

SHEET NAME:
CV-01

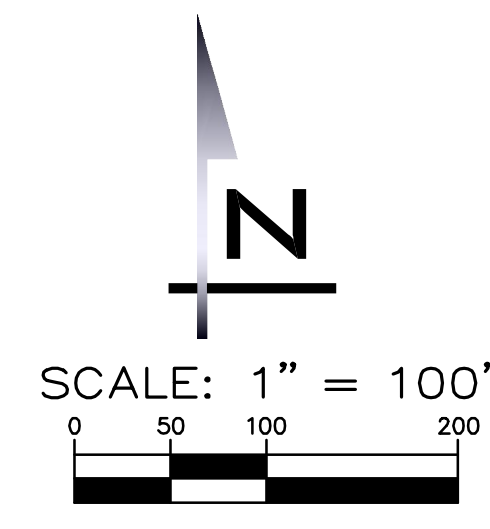
SHT 1 OF 59



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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 POINT 2112
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

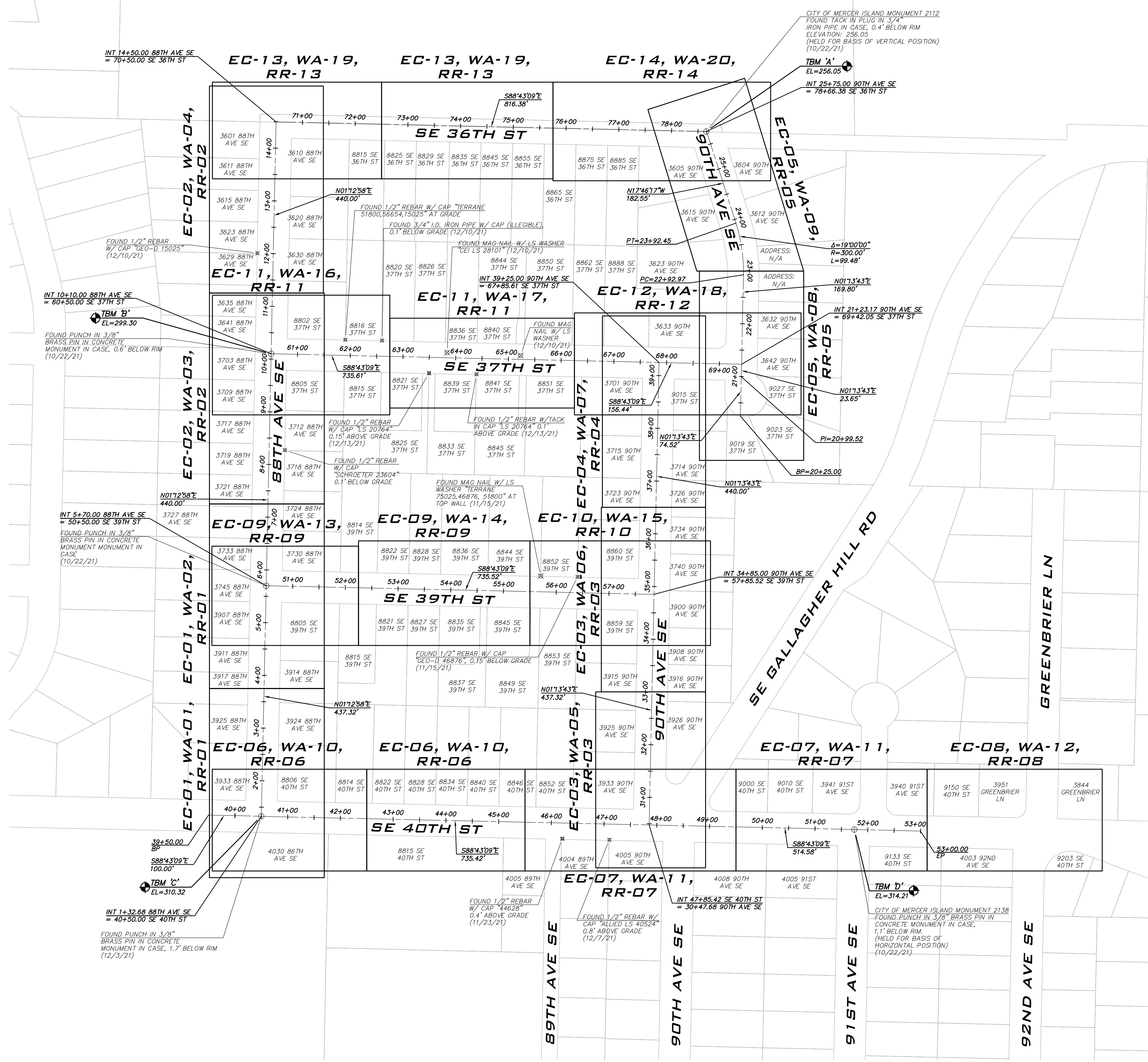
TEMPORARY BENCHMARKS
TBM 'A'
AT FOUND TACK IN PLUG IN 3/4" IRON PIPE IN CASE, 0.4' BELOW RIM AT THE INTERSECTION OF SE 36TH ST & 90TH AVE SE.
ELEVATION: 256.05'
TBM 'B'
AT FOUND PUNCH IN 3/8" BRASS PIN IN CONCRETE MONUMENT IN CASE, 0.6' BELOW RIM AT THE INTERSECTION OF SE 37TH ST & 88TH AVE SE.
ELEVATION: 299.30'
TBM '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.
ELEVATION: 310.32'
TBM '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 SUCH.
EQUIPMENT NOTES:
PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC 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.
NOTES:
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.

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.

KEY MAP & ALIGNMENT PLAN
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

3/14/22
JOB NUMBER:
21-303
SHEET NAME:
GN-01
SHT **2** OF **59**



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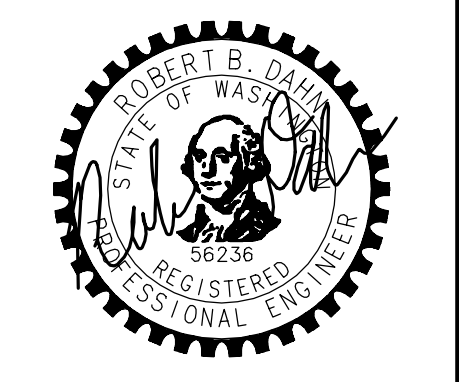
DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

LAST NAME	ADDRESS	UTILITY BILLING METER # (REGISTER #)	EXISTING/NEW METER SIZE	METER MAKE	REPLACING METER (Y/N)?	REPLACE METER BOX (Y/N)?	TRAFFIC BEARING BOX	MOVING METER/METER BOX (Y/N)?	METER RELOCATION INFO/COMMENTS	Radio Read / MXU	OTHER INFO (PRV, FIRE, OR IRRIGATION)?
SE 36th St											
ZHONG MENG	8815 SE 36th St	35127921	5/8"	Rockwell	N	N	Y	N	SAME LOCATION		
STEVE WALZER	8825 SE 36th St	41491965	5/8"	Sensus	N	N	Y	Y	6' NORTH OUT OF PLANTER WITH SHRUBS		
CHAN	8829 SE 36th St	47241042	5/8"	Sensus	N	N	Y	Y	3' NORTH VISABLE LARGE TREE ROOTS		POSSIBLE HOLE HOG
LOTTIS	8835 SE 36th St	47241047	5/8"	Sensus	N	N	Y	Y	7' NORTH OUT OF PLANTER WITH SHRUBS AND A 18" BRICK WALL		POSSIBLE HOLE HOG
XUEMEI WANG	8845 SE 36th St	52531033	5/8"	Sensus	N	N	Y	Y	7' NORTH OUT OF PLANTER WITH SHRUBS AND A 18" ROCK WALL	14719225	POSSIBLE HOLE HOG
YUEN	8855 SE 36th St	43816924	3/4"	Sensus	N	N	Y	Y	6' NORTH IN BRUSH AND SHRUB AREA		METER IS A 5/8" NOT A 3/4"
KINDY	8865 SE 36th St	66211251	5/8"	Sensus	N	N	N	N	2' NORTH		
JOHNSON	8875 SE 36th St	43816921	3/4"	Sensus	N	N	N	N	3' NORTH		METER IS A 5/8" NOT A 3/4"
MALAKOTI	8885 SE 36th St	50109409	1"		N	N	N	N	SAME LOCATION		
SE 37th St											
SZETO	8805 SE 37th St	61932455	1"	Sensus	N	N	N	Y	12' WEST SHRUBS AND SIDE WALK IN THE WAY SHOULD BE HOLE HOGED, SERVICE OFF 88TH AVE SE		
LYONS	8815 SE 37th St	53718179	1.5"	Invensys	Y	Y	Y	Y	2' SOUTH		
TAO	8821 SE 37th St	63101542	5/8"	Sensus	N	N	Y	Y	10' NORTH		
LU	8825 SE 37th St	58163200	5/8"	Sensus	N	N	Y	Y	6' NORTH		
WEDGWOOD	8833 SE 37th St	11003276	1.5"	Metron	Y	Y	Y	Y	6' NORTH	12595806	
WEDGWOOD	8839 SE 37th St	1543564	5/8"	Seattle meter	N	N	Y	Y	10' NORTH		
OSMAN	8841 SE 37th St	54765323	1"	Sensus	N	N	N	Y	5' NORTH		
SNELLENBERG	8845 SE 37th St	56099930	1"	Sensus	N	N	Y	Y	6' NORTH & 5' EAST		
THOMPSON	8851 SE 37th St	9972950	3/4"	Master Meter	N	N	Y	Y	16' NORTH		
TSO	8802 SE 37th St	51212021	3/4"	Sensus	N	N	Y	N	SAME LOCATION		
COOCHISE	8816 SE 37th St	45276927	5/8"	Sensus	N	N	Y	Y	13' SOUTH		
PABLO DAMICO	8820 SE 37th St	9971064	5/8"	Master Meter	N	N	Y	Y	12' SOUTH		
ZIMMER	8826 SE 37th St	53001506	1.5"	Metron	Y	Y	Y	Y	SAME LOCATION		
YEH, RONALD	8836 SE 37th St	62564977	1"	Sensus	N	N	Y	Y	SAME LOCATION		
KLOBY	8840 SE 37th St	43816926	3/4"	Rock well	N	N	Y	Y	12' SOUTH		NEXT TO METER PRV CUSTOMER, METER IS A 5/8" NOT A 3/4
PEI JI	8844 SE 37th St	66211272	5/8"	Sensus	N	N	Y	Y	6' SOUTH		
FUKUDA	8850 SE 37th St	11002294	1.5"	Metron	Y	Y	Y	Y	3' SOUTH		
RONALD PIRET	8862 SE 37th St	35127930	5/8"	Rockwell	N	N	N	Y	5' SOUTH		
STRANGE	8888 SE 37th St	9971069	5/8"	Master Meter	N	N	N	Y	5' SOUTH		
DOWDELL	9015 SE 37th St	42967539	5/8"	Rockwell	N	N	N	N	SAME LOCATION		
HARDIE	9019 SE 37th St	42967685	5/8"	Rockwell	N	N	N	N	SAME LOCATION		
DONALDSON	9023 SE 37th St	9971095	5/8"	Master Meter	N	N	N	Y	SAME LOCATION		
WITTMAN	9027 SE 37th St	9971094	5/8"	Master Meter	N	N	N	Y	SAME LOCATION		

NO	DATE	BY	REVISIONS	
			DESCRIPTION	DATE

WATER SERVICE TABLE
2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22

JOB NUMBER:
21-303

SHEET NAME:
GN-04

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



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PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

REVISIONS

BY

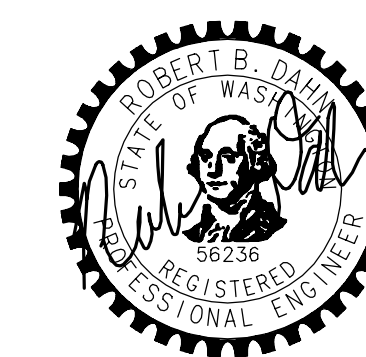
DATE

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WATER SERVICE TABLE

2022 WATER SYSTEM
IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON



3/14/22

JOB NUMBER:

21-303

SHEET NAME:

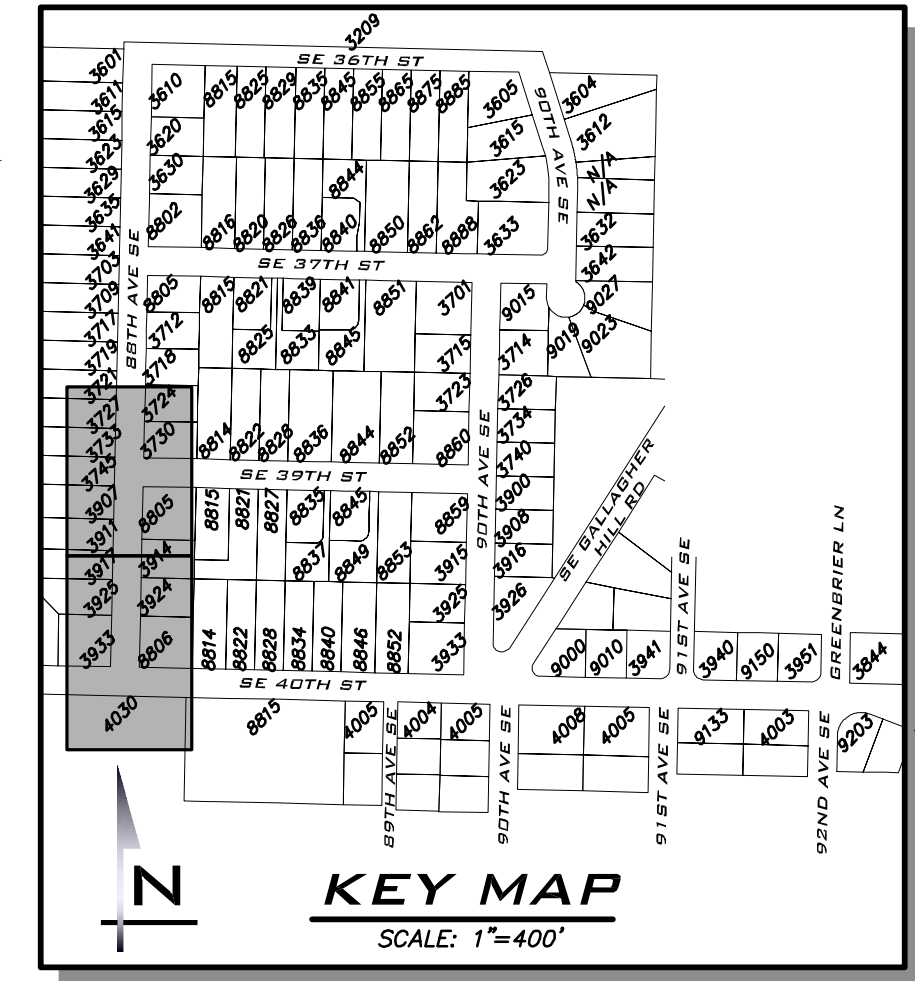
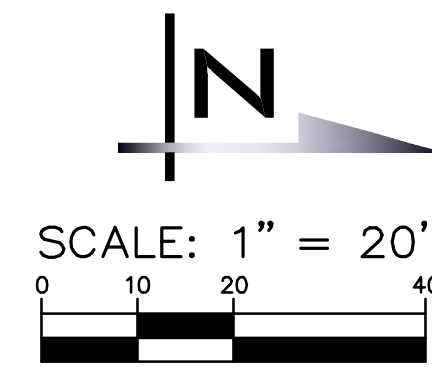
GN-05

SHT 6 OF 59

LAST NAME	ADDRESS	UTILITY BILLING METER # (REGISTER #)	EXISTING/NEW METER SIZE	METER MAKE	REPLACING METER (Y/N)?	REPLACE METER BOX (Y/N)?	TRAFFIC BEARING BOX	MOVING METER/METER BOX (Y/N)?	METER RELOCATION INFO/COMMENTS	Radio Read / MXU	OTHER INFO (PRV, FIRE, OR IRRIGATION)?
SE 39th St											
DOWDY	8805 SE 39th St	66452240	5/8"	Sensus	N	N	Y	Y	15' WEST HOLE HOG OR REMOVE SIDE WALK PANEL, SERVICE OFF 88TH AVE SE		
PABORSKY	8815 SE 39th St	61932441	1"	Sensus	N	N	Y	N	SAME LOCATION		
AFSHARTOUS	8821 SE 39th St	56710395	1.5"	Invensys	Y	Y	Y	N	SAME LOCATION	14770596	
BRENTON WARD	8827 SE 39th St	53910071	1"	Invensys	N	N	N	Y	SAME LOCATION	4641837	
BALLON	8835 SE 39th St	11013990	1.5"	Metron	Y	Y	N	Y	4' NORTH	15062078	
LILLY	8837 SE 39th St	73876117	1"	Sensus	N	N	N	Y	15' NORTH & 6' EAST		
LILLY	8837 SE 39th St	F49128436	5/8"	Sensus	N	N	N	Y	15' NORTH & 6' EAST FIRE SERVICE METER		
NILAM SABOO REVOCABLE TRUST	8845 SE 39th St	71713540	1"	Sensus	N	N	N	Y	10' N ORTH	15078812	
ESTERBERG	8849 SE 39th St	11912635	1.5"	Sensus	Y	Y	N	Y	10' NORTH 4' EAST	15082136	
JIE WANG	8853 SE 39th St	11011964	1.5"	Metron	Y	Y	Y	Y	2' NORTH	15295542	
SHERPA	8859 SE 39th St	42967391	5/8"	Sensus	N	N	N	N	METER IS ON 90TH STREET		
BESECKER	8814 SE 39th St	71098330	5/8" / 1"	Sensus	N	N	N	N	SAME LOCATION	15083728	
BACIEWICZ	8822 SE 39th St	53001688	1.5"	Metron	Y	Y	N	N	SAME LOCATION	100279963	
NOWBAR	8828 SE 39th St	42967372	5/8"	Rockwell	N	N	N	N	2' SOUTH		
DELEO	8836 SE 39th St	42967373	5/8"	Rockwell	N	N	N	N	2' SOUTH		
SAULSMAN	8844 SE 39th St	47241038	5/8"	Sensus	N	N	Y	Y	7' SOUTH		
CLIFFORD MCELROY	8852 SE 39th St	11919975	1.5"	Metron	Y	Y	Y	Y	4' SOUTH	88432528	
DONALD THOMPSON	8860 SE 39th St	66211286	5/8"	Rockwell	N	N	N	Y	10' SOUTH & 5' WEST		
SE 40th St											
DOLENCE	8806 SE 40th St	9972959	5/8"	Master Meter	N	N	N	Y	5' W EST THE SERVICE IS OFF 88TH AVE SE		
YUANYUAN CHEN	8814 SE 40th St	11547137	5/8"	Master Meter	N	N	N	Y	5' SOUTH		
JIAQJ LIU	8822 SE 40th St	11012354	1.5"	Ivensys	N	N	N	N	INSTALLED OFF 12" DI PIPE ALREADY DONE	15295438	NOT TO INCLUDE IN THIS PROJECT
KUN	8828 SE 40th St	54759441	1"	Ivensys	N	N	N	N	SAME LOCATION	14873381	
ROBINSON	8834 SE 40th St	64797038	5/8"	Sensus	N	N	N	Y	5' SOUTH & 4' EAST	UBALE READ (NO LABEL)	
ZHANG	8840 SE 40th St	11003270	1.5"	Metron	Y	Y	N	Y	2' NORTH PART WAY IN SIDE WALK REMOVE SIDEWALK PANEL	UBALE READ (NO LABEL)	
EMILY DONALDSON-FLETCHER	8846 SE 40th St	68813894	5/8"	Invensys	N	N	N	Y	5' SOUTH BETWEEN FENCE AND 2' HIGH ROCKERY REMOVE AND REPLACE		
HUANG	8852 SE 40th St	63186836	5/8"	Sensus	N	N	N	Y	5' SOUTH BETWEEN FENCE AND 2' HIGH ROCKERY REMOVE AND REPLACE		
LEUNG	9000 SE 40th St	32363365	5/8"	Rockwell	N	N	Y	N	5' SOUTH		
MI90010 LLC	9010 SE 40th St	32363371	5/8"	Rockwell	N	N	Y	N	5' SOUTH		
MAMOS	9150 SE 40th St	32363360	5/8"		N	N	N	Y	5' SOUTH		
LAVALLEE	3951 Greenbriar Ln	32363362	5/8"		N	N	N	Y	5' SOUTH		

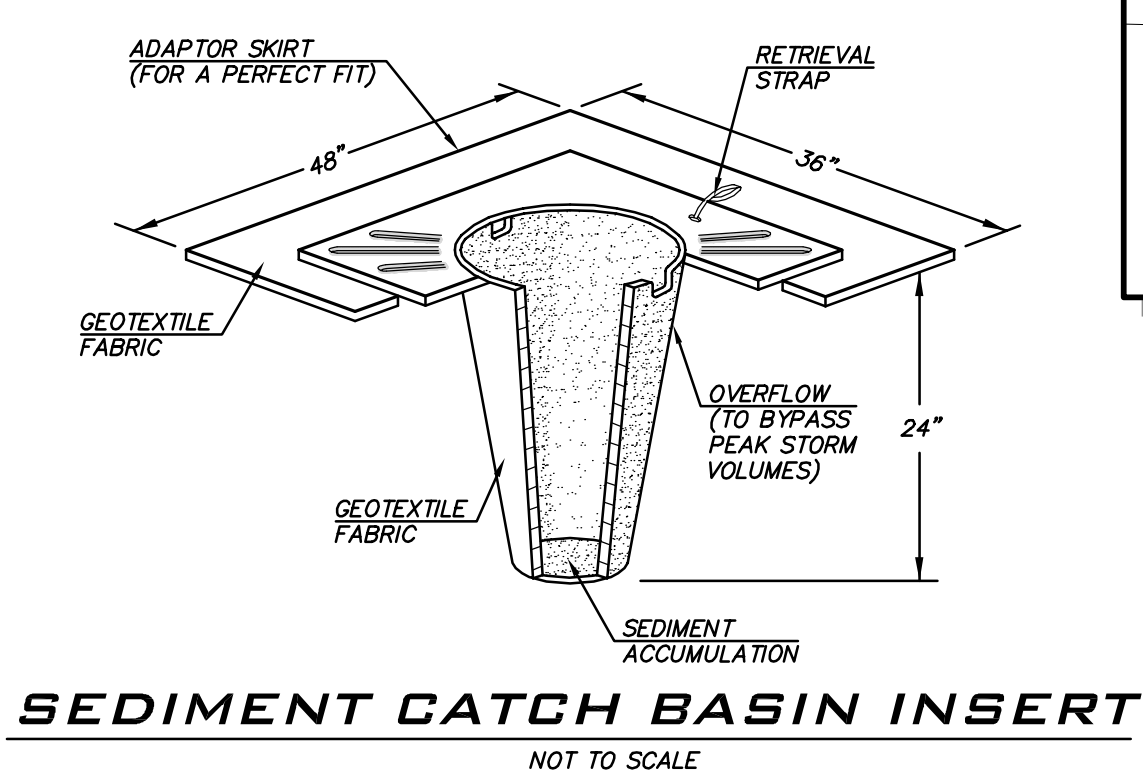
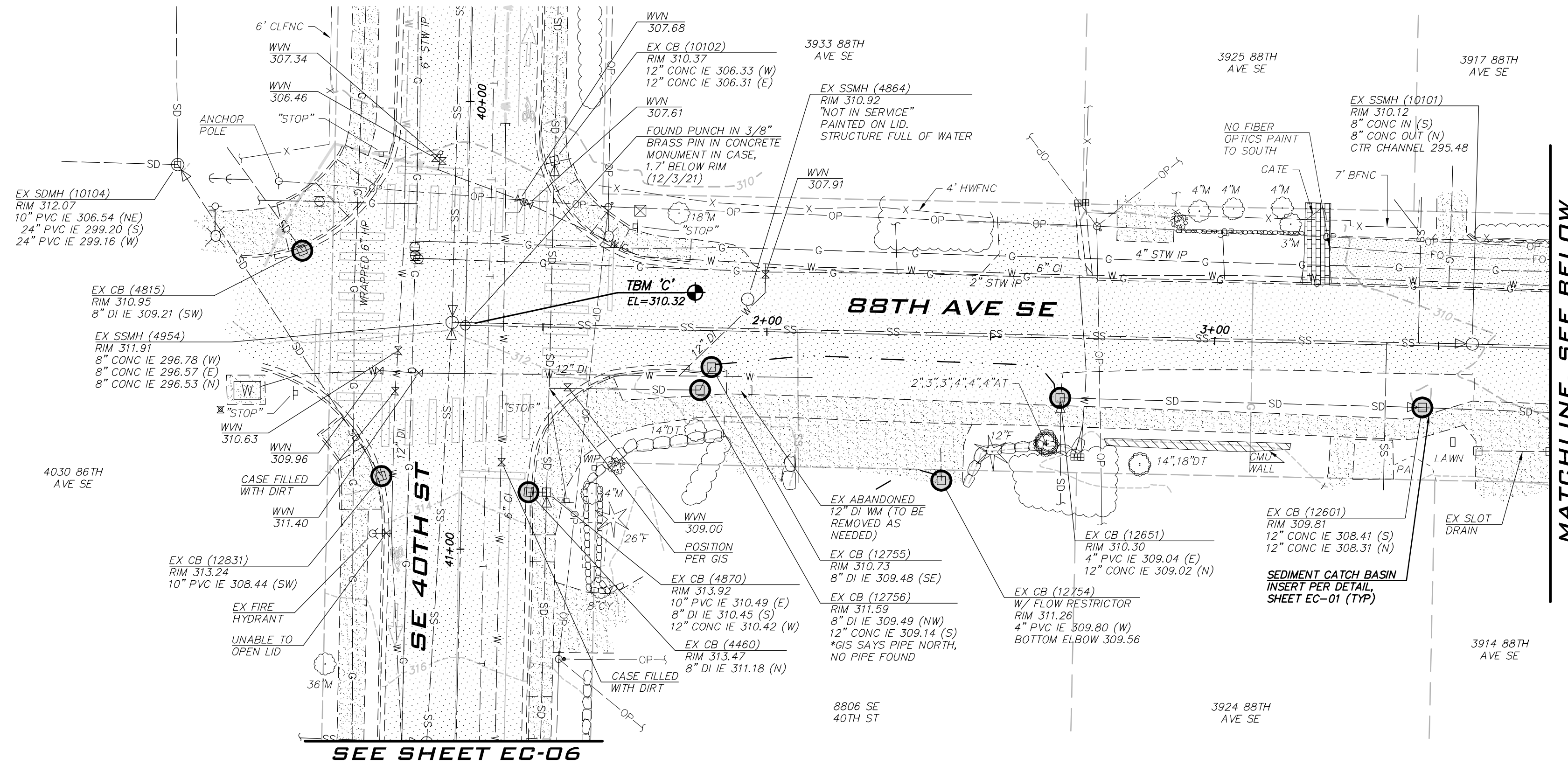
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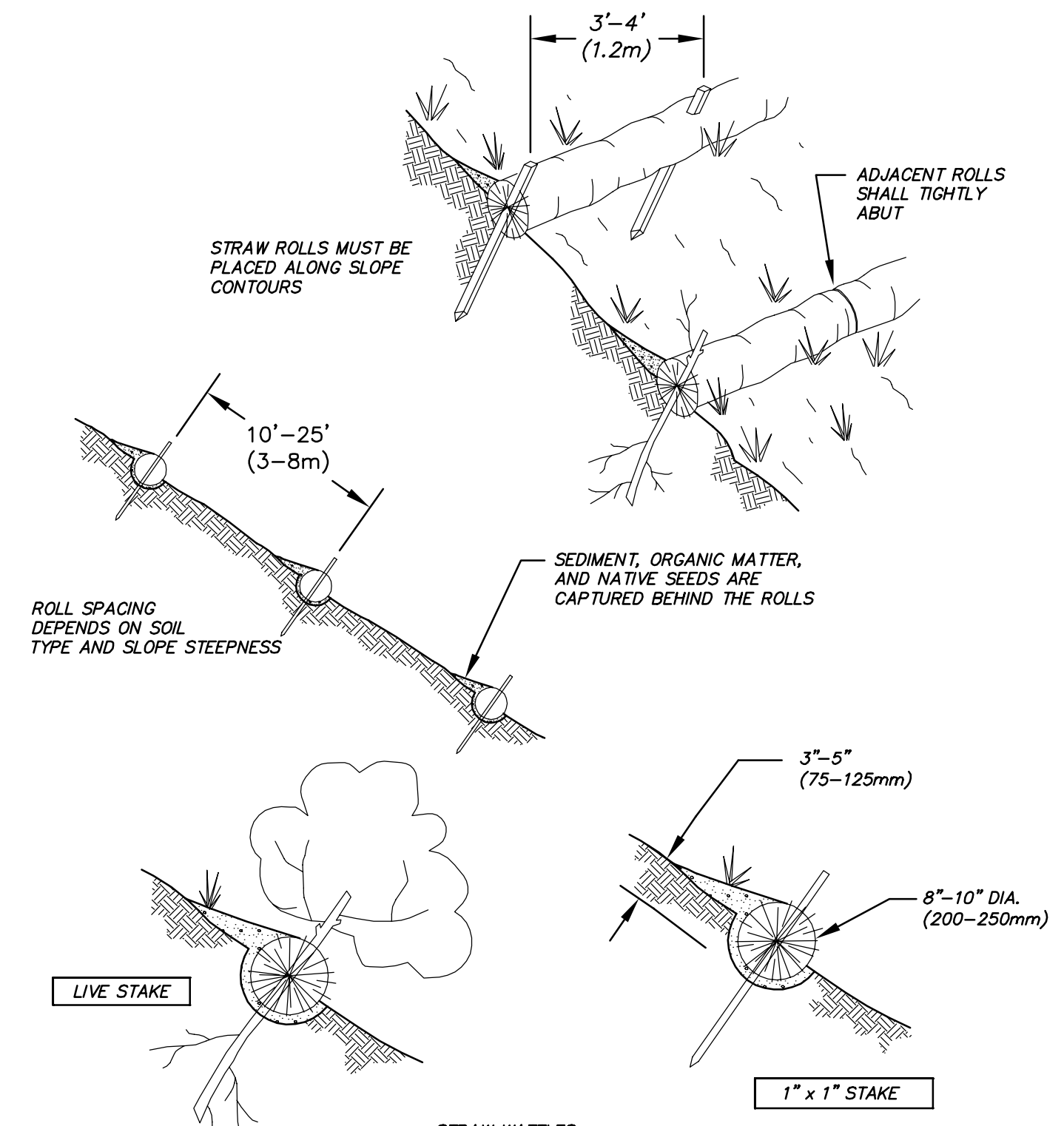
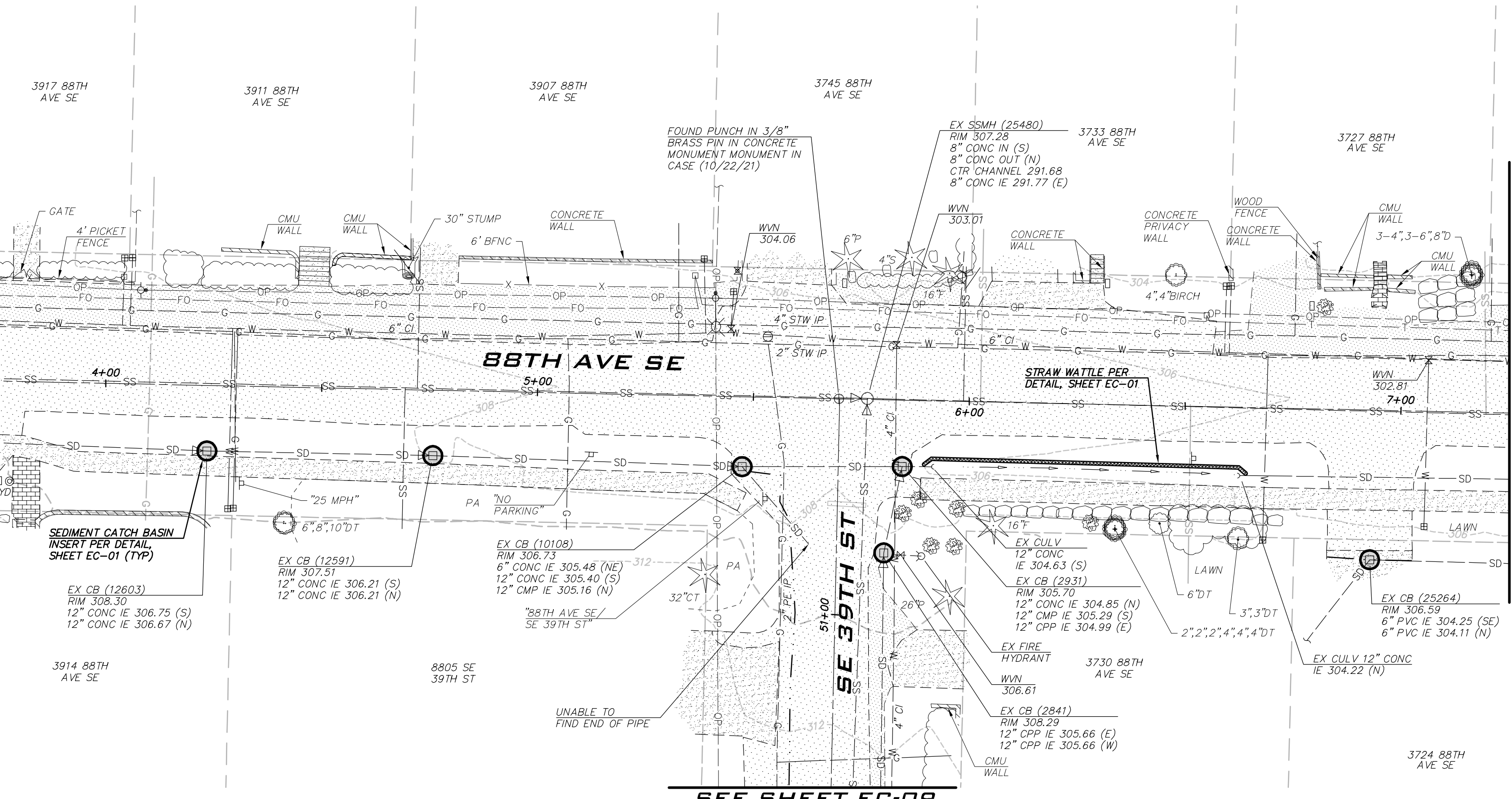


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SEDIMENT CATCH BASIN INSERT
 NOT TO SCALE



STRAW WATTLE
 NOT TO SCALE

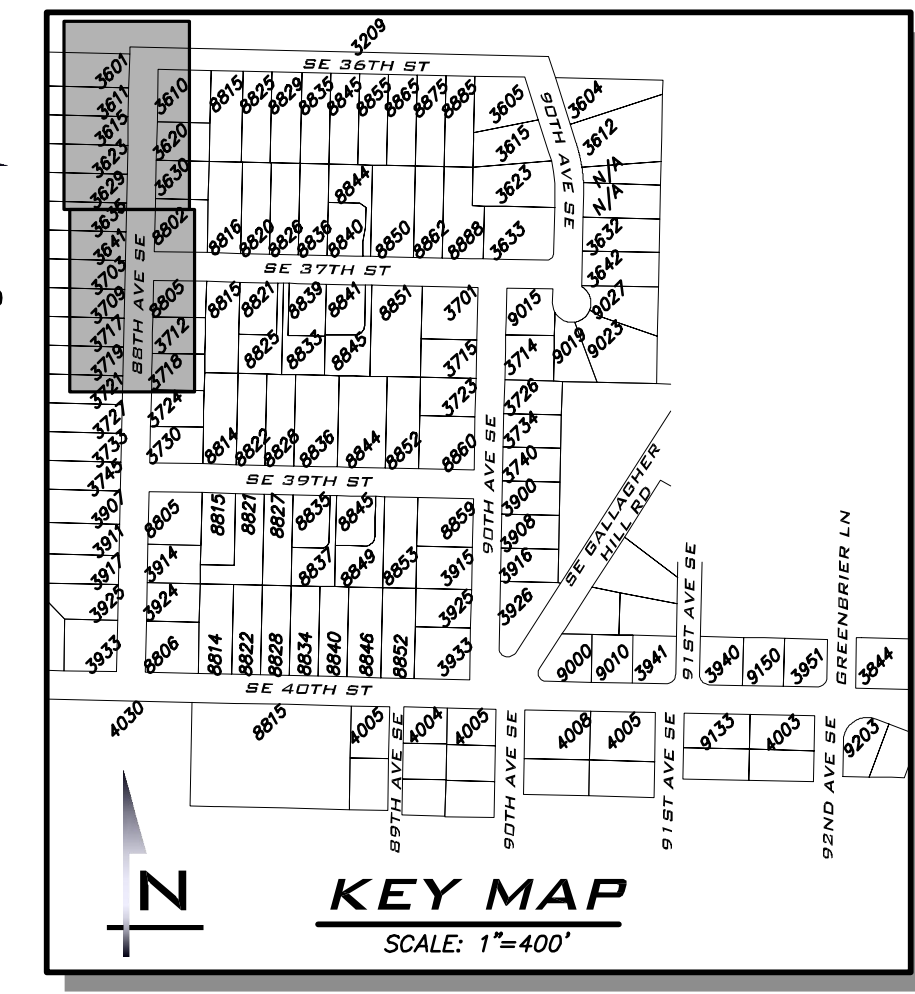
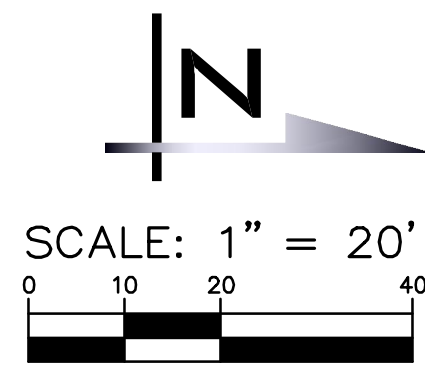
EXISTING UTILITY NOTE
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NO	DATE	BY	REVISIONS

EXISTING CONDITIONS & TESC PLAN - 88TH AVE SE
2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
EC-01
 SHT **7** OF **59**



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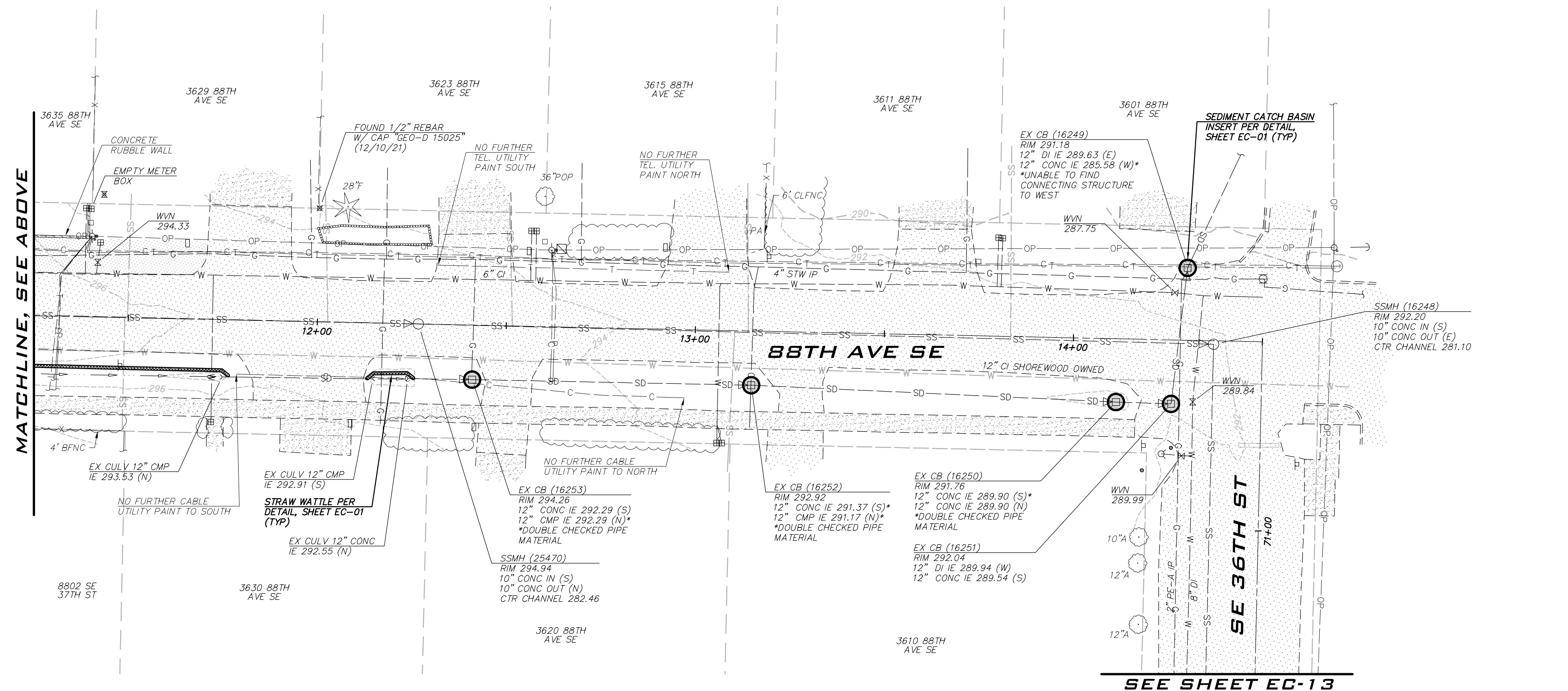
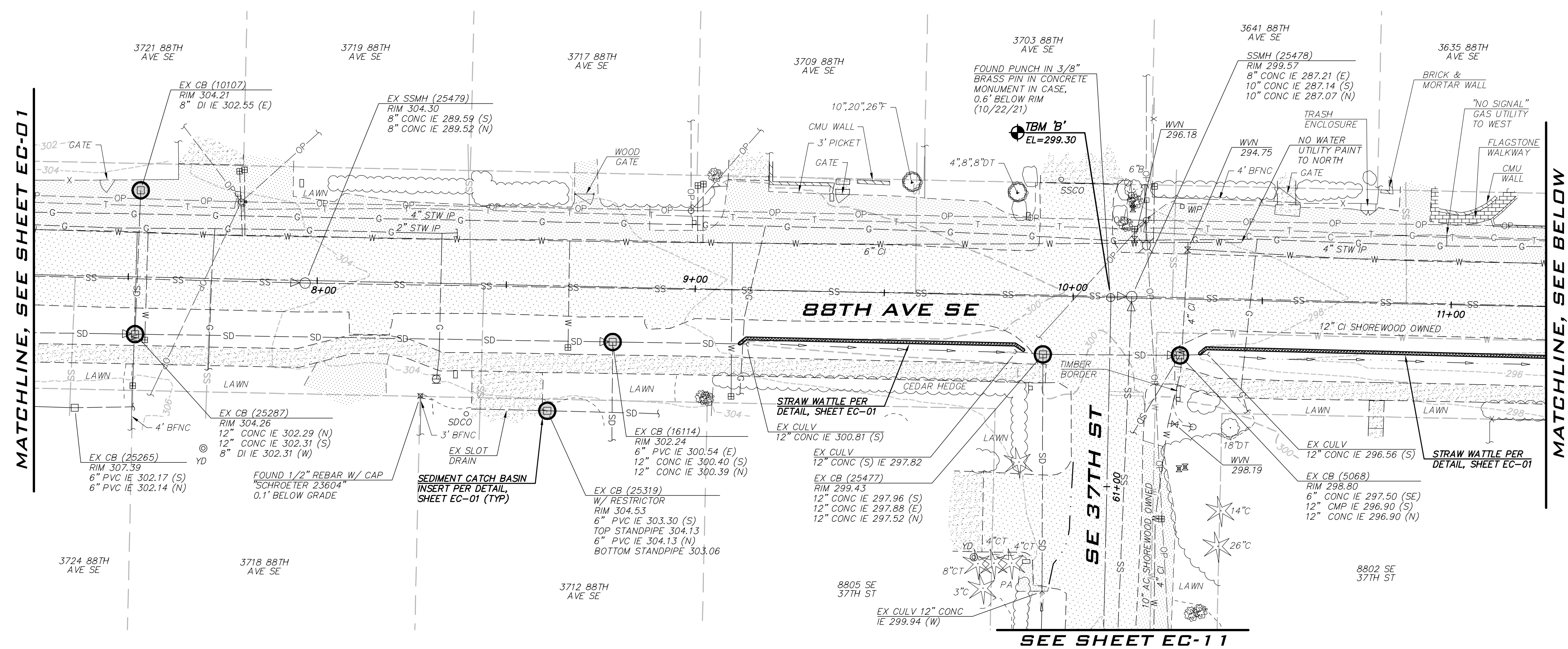
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PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

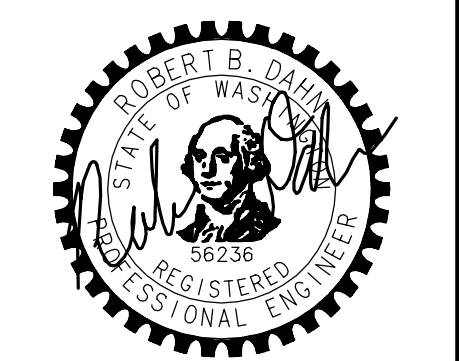
ISSUE DATE:
3/14/2022



NO	DATE	BY	REVISIONS

**EXISTING CONDITIONS & TESC
PLAN - 88TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON



3/14/22

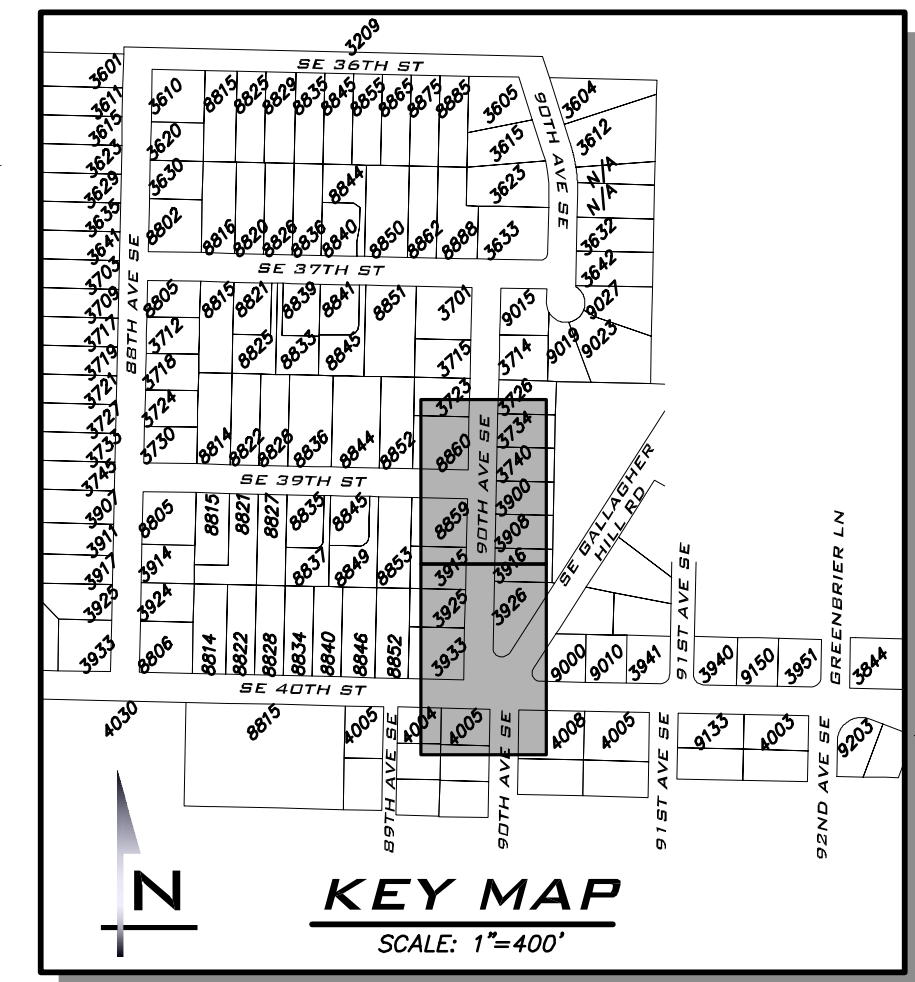
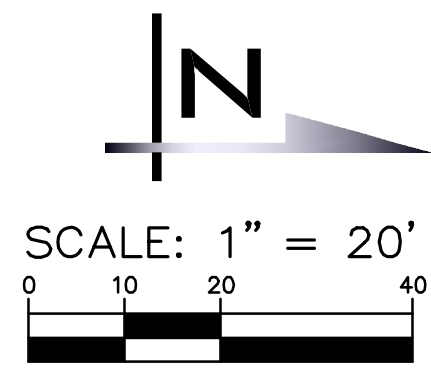
JOB NUMBER:
21-303

SHEET NAME:
EC-02

SHT **8** OF **59**

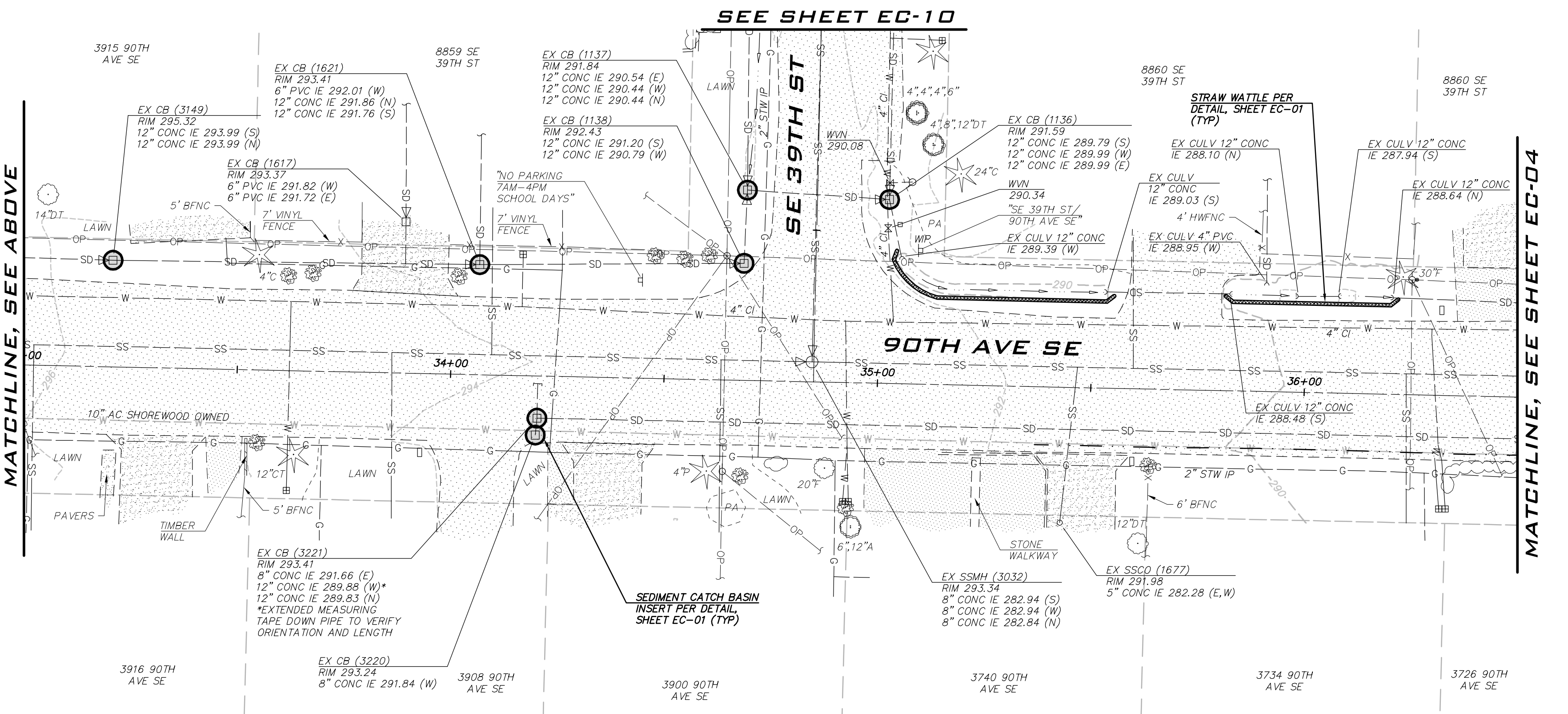
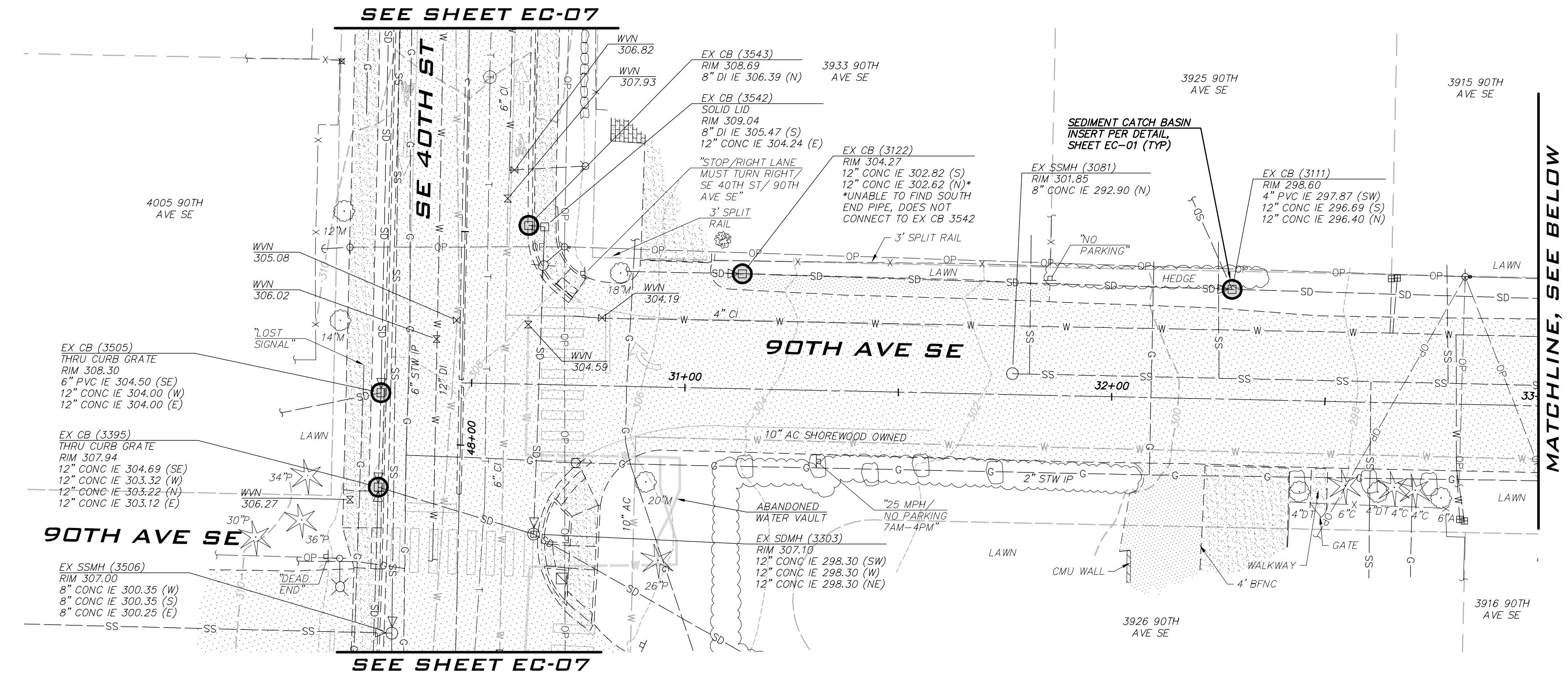
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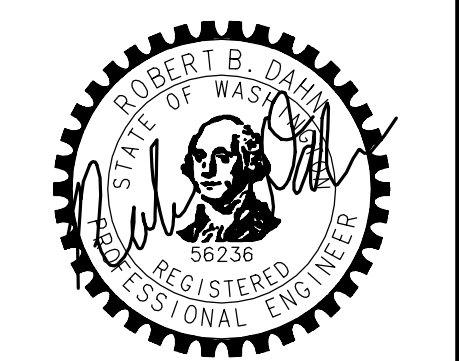
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 PROJECT ENGINEER: GRACE GARWIN, EIT
 DESIGNER: CAROL DOGGETT
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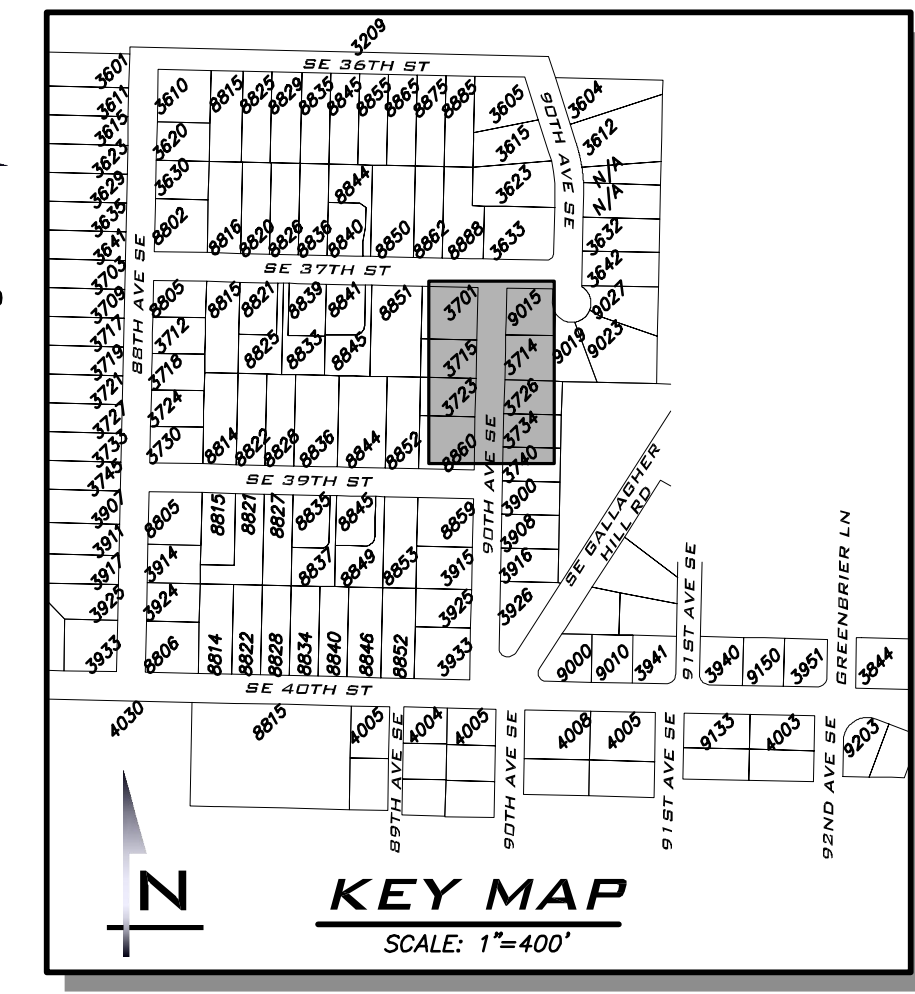
EXISTING CONDITIONS & TESC
PLAN - 90TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER: 21-303
 SHEET NAME: EC-03
 SHT 9 OF 59



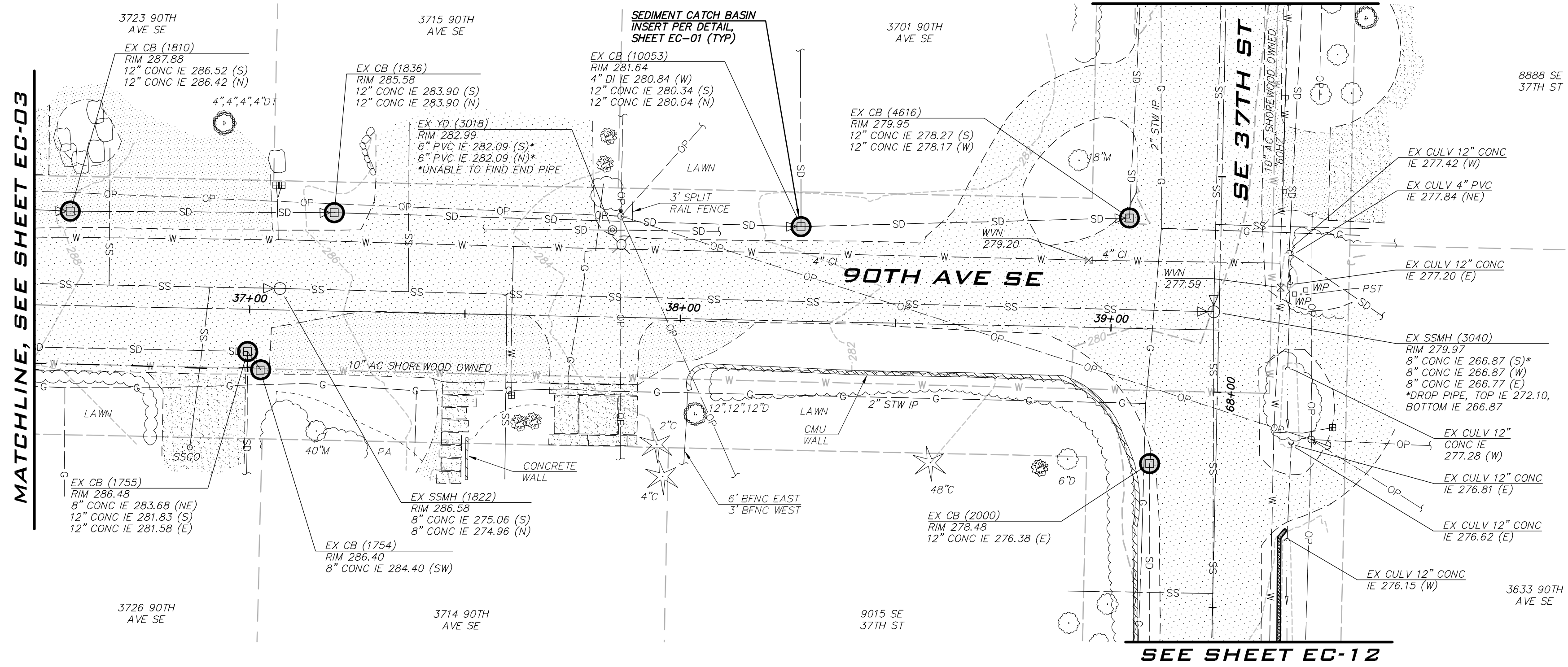
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PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
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ISSUE DATE:
3/14/2022



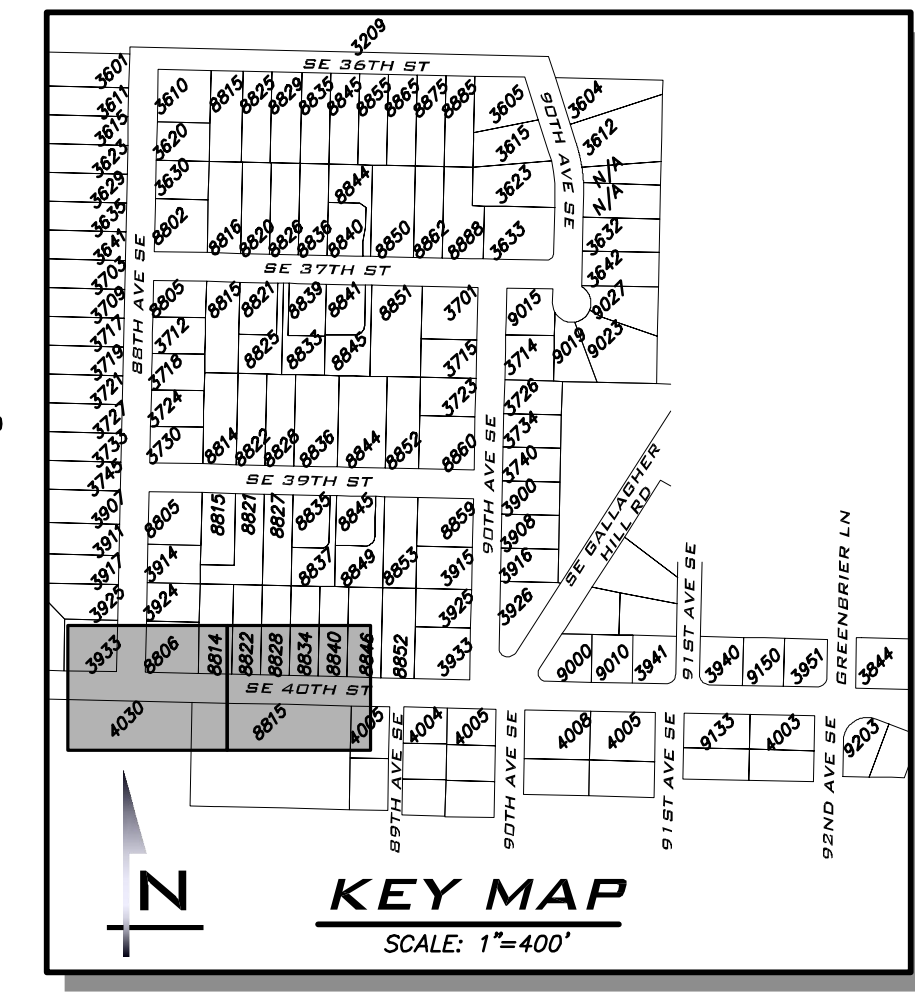
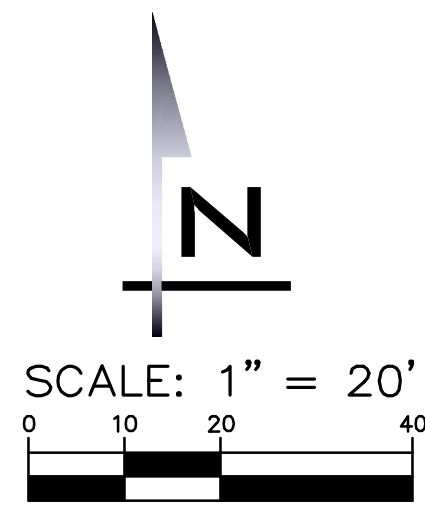
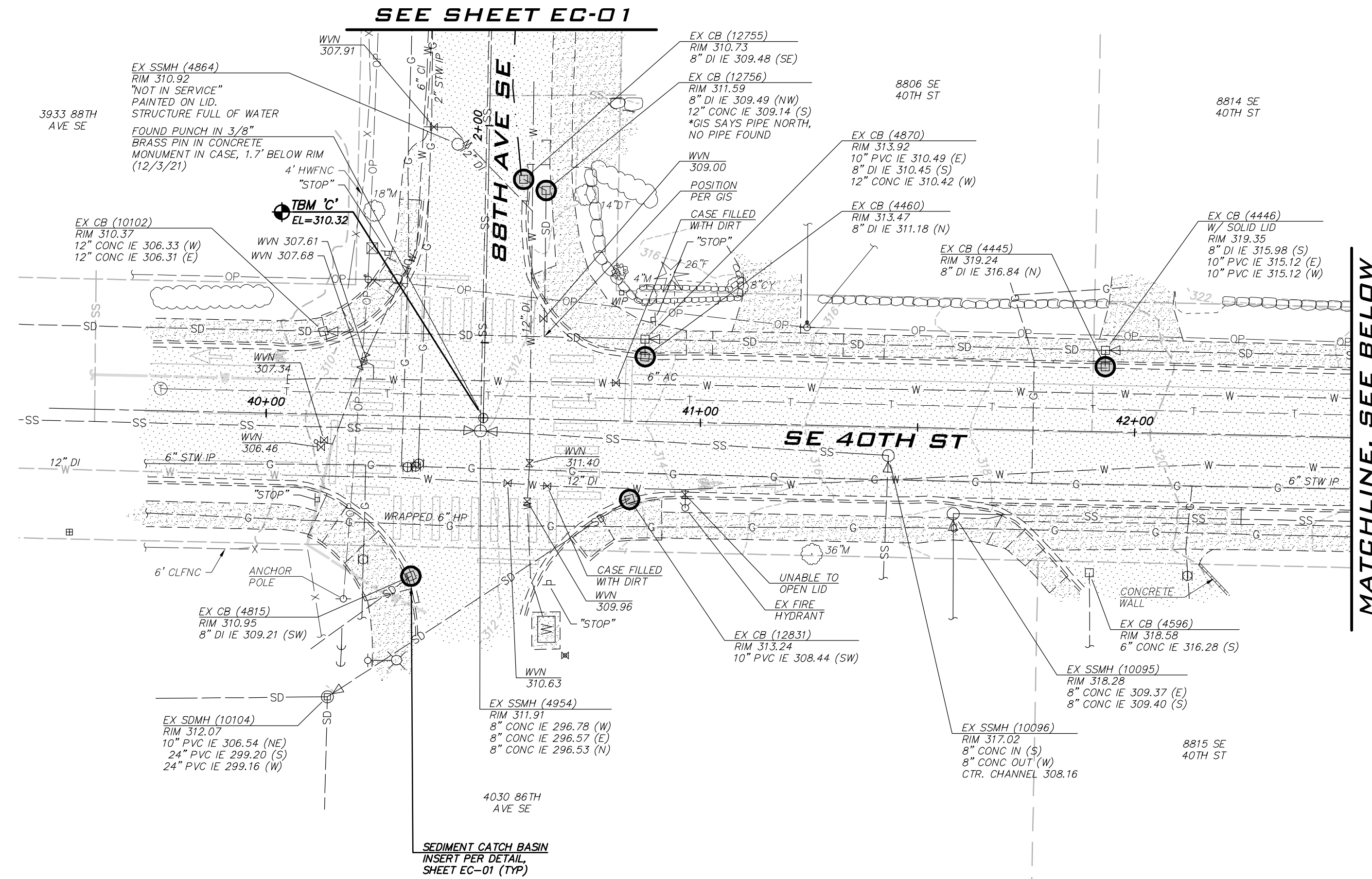
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EXISTING CONDITIONS & TESC
PLAN - 90TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



3/14/22
JOB NUMBER:
21-303
SHEET NAME:
EC-04

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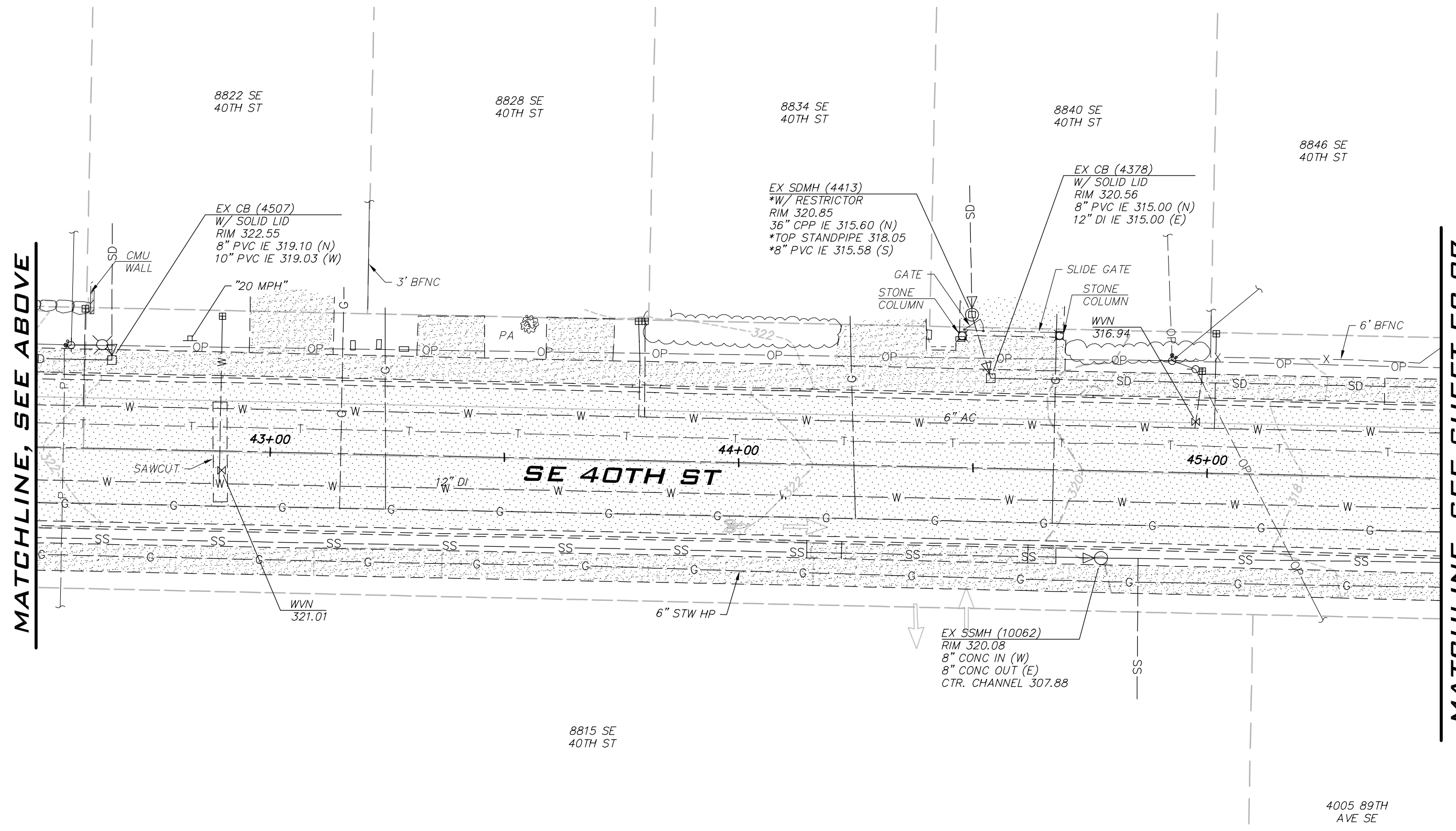
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGETT

ISSUE DATE:
3/14/2022

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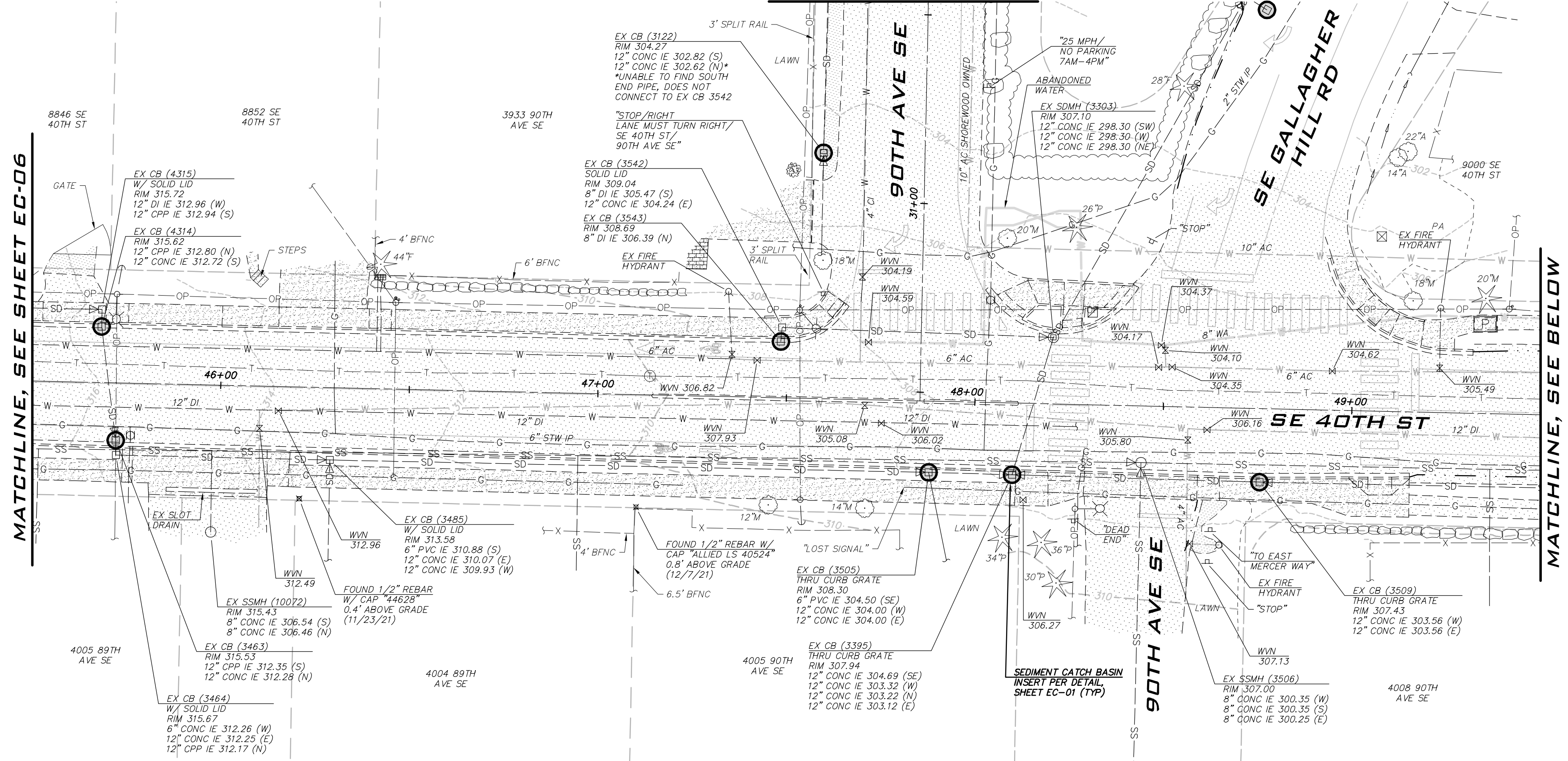
**EXISTING CONDITIONS & TESC
 PLAN - SE 40TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON

3/14/22
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21-303
 SHEET NAME:
EC-06

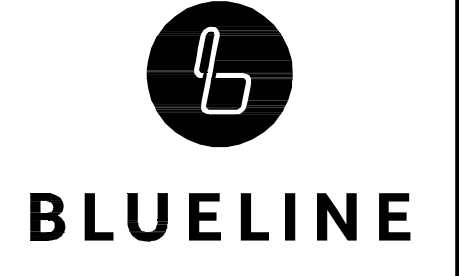
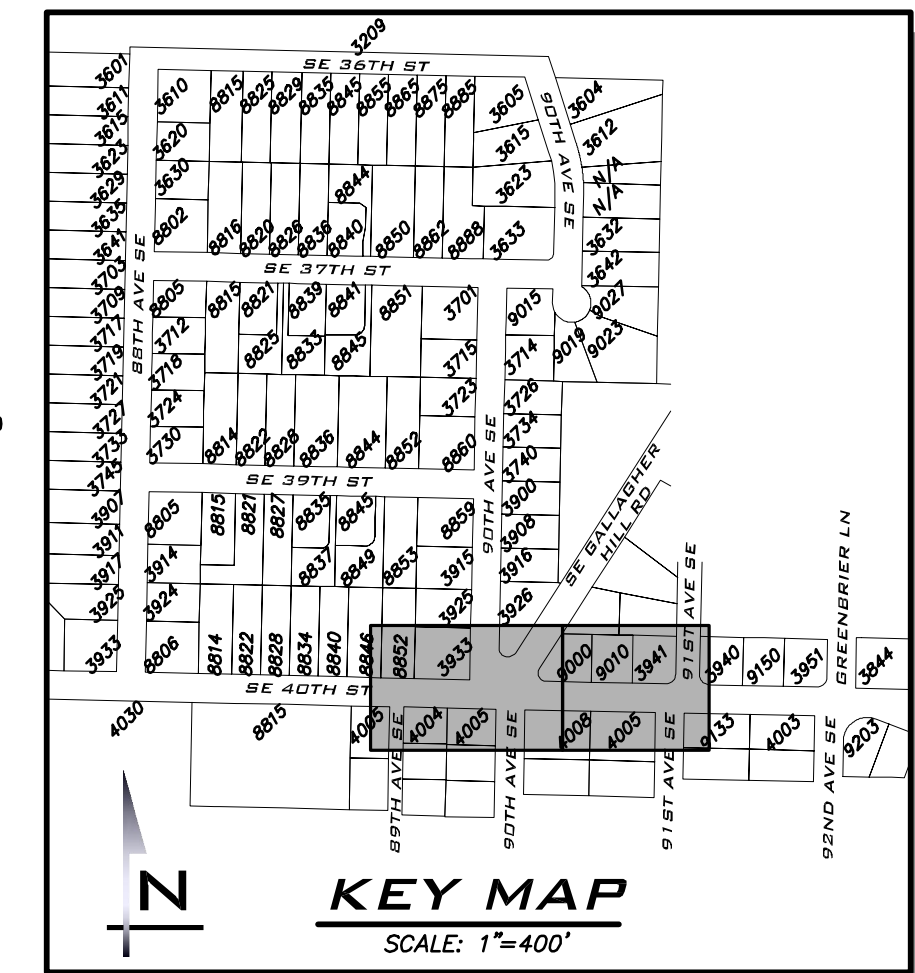
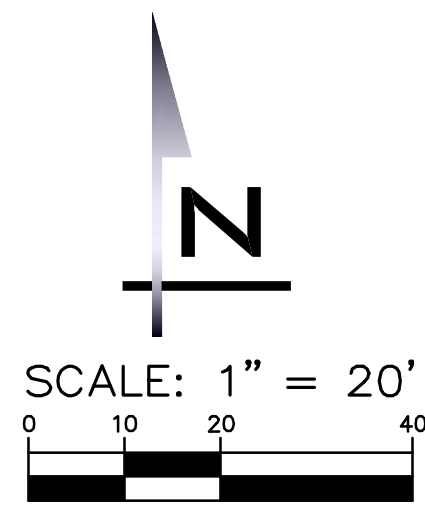
SHT **12** OF **59**

SEE SHEET EC-03



MATCHLINE, SEE SHEET EC-06

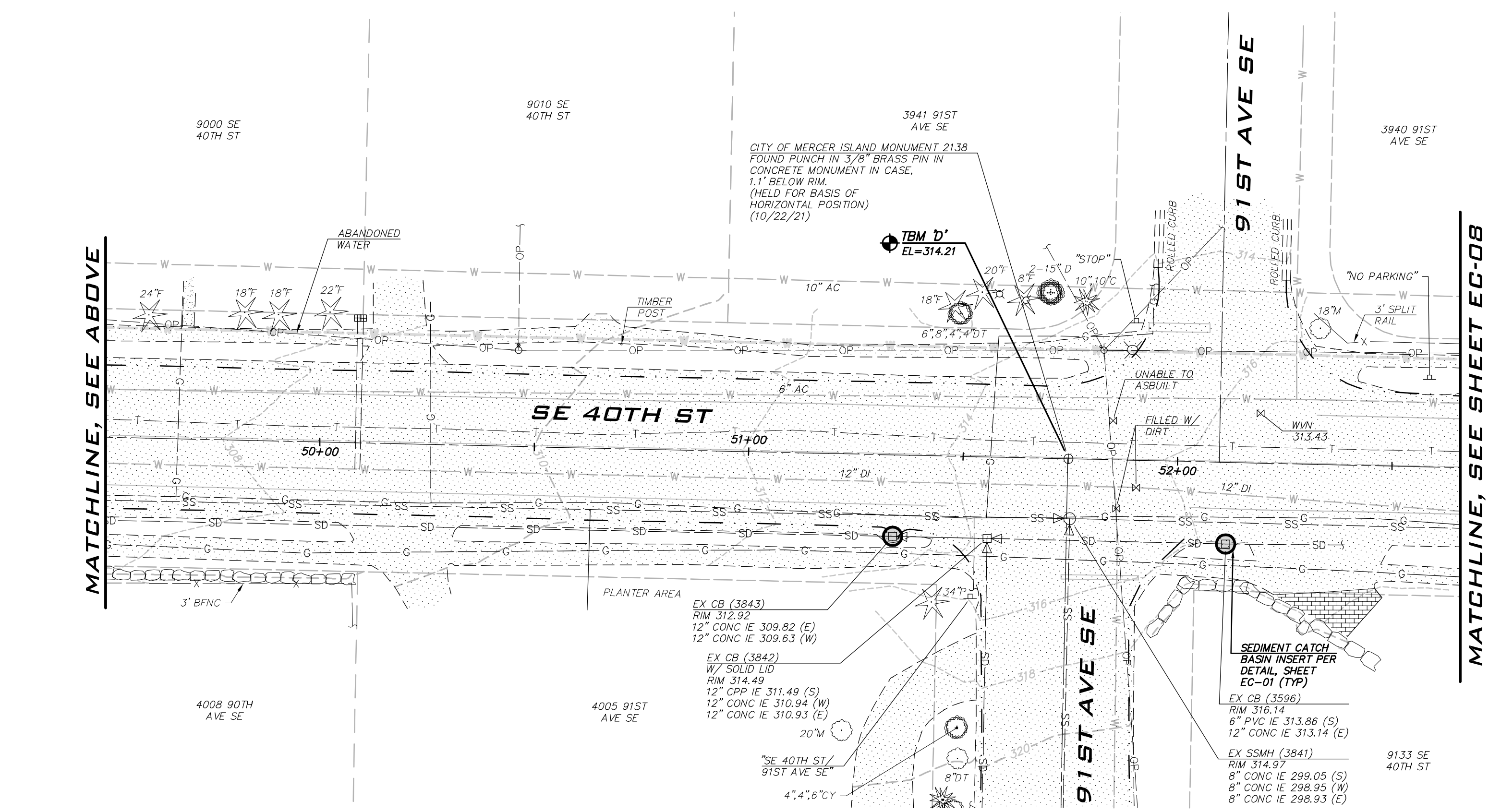
MATCHLINE, SEE BELOW



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PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
3/14/2022

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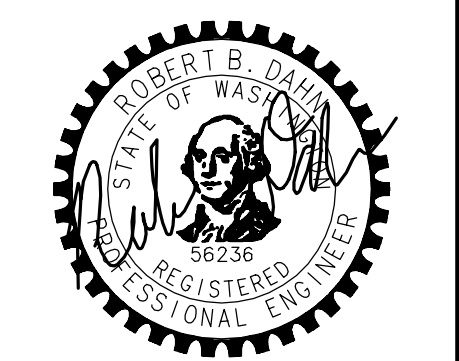


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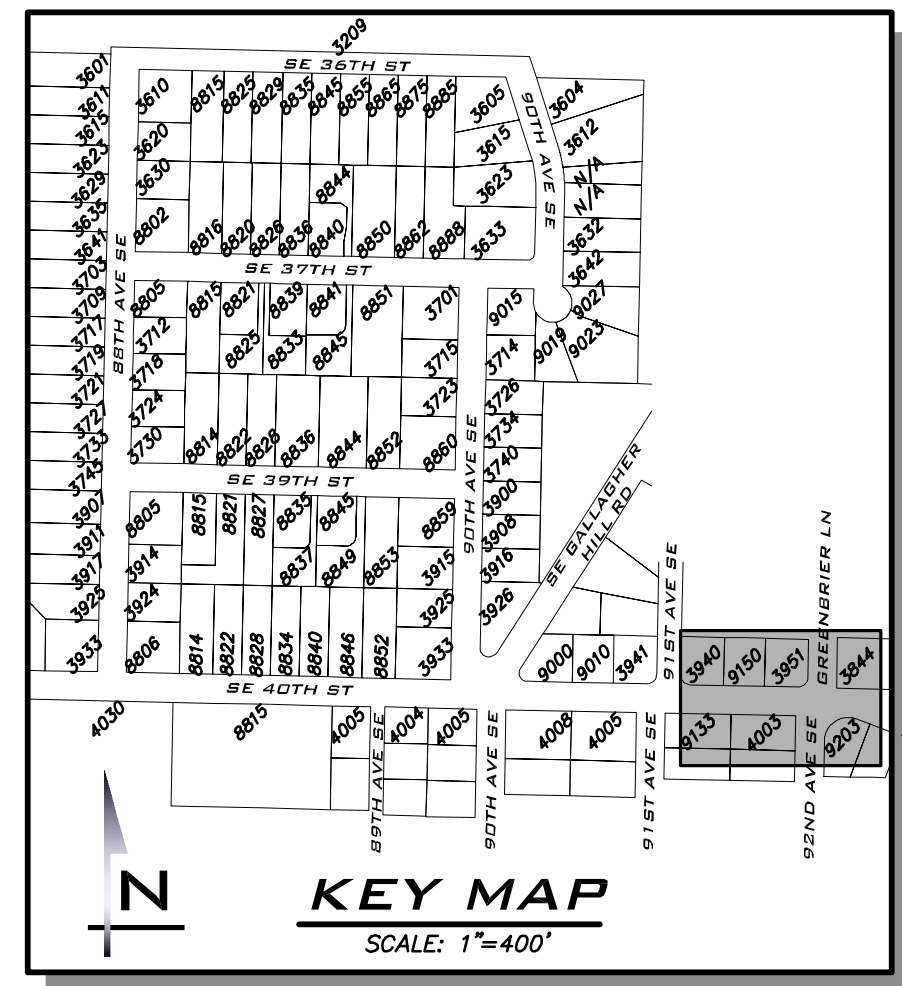
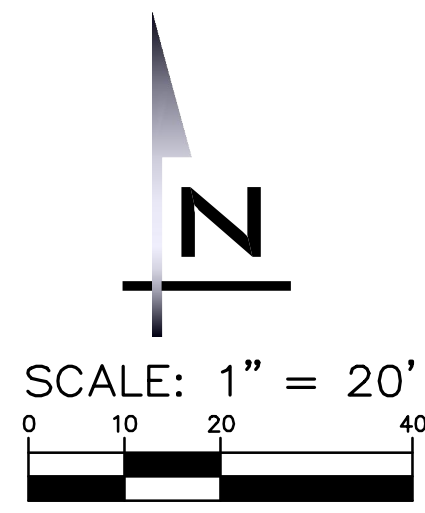
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EXISTING CONDITIONS & TESC
PLAN - SE 40TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



3/14/22
JOB NUMBER:
21-303
SHEET NAME:
EC-07
SHT 13 OF 59

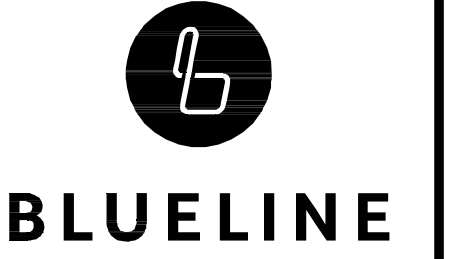


MATCHLINE, SEE SHEET EC-07



GIS NOTE

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

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**EXISTING CONDITIONS & TESC
PLAN - SE 40TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT**
CITY OF MERCER ISLAND WASHINGTON



3/14/22

JOB NUMBER:

21-303

SHEET NAME:

EC-08

SHT **14** OF **59**

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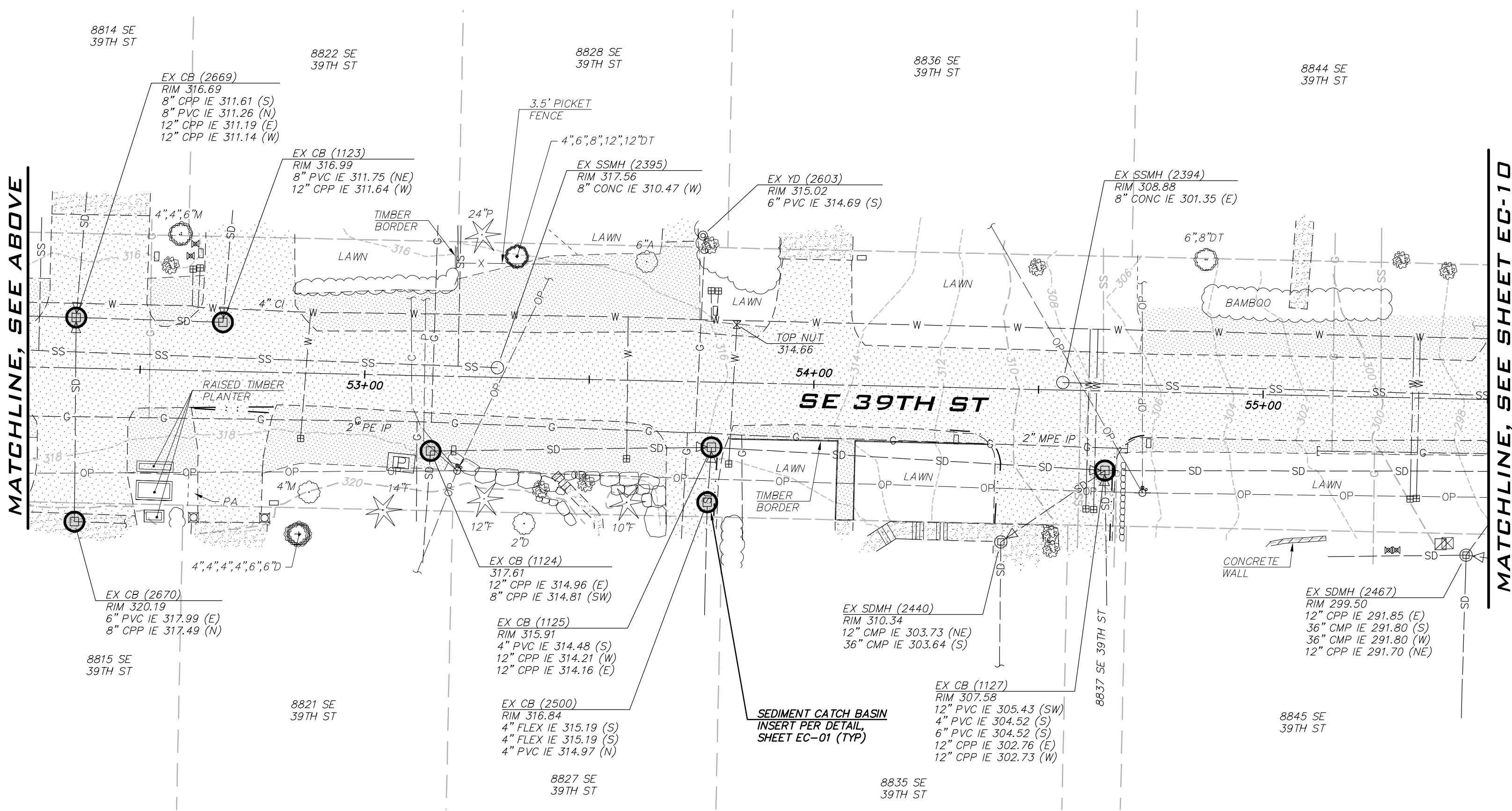
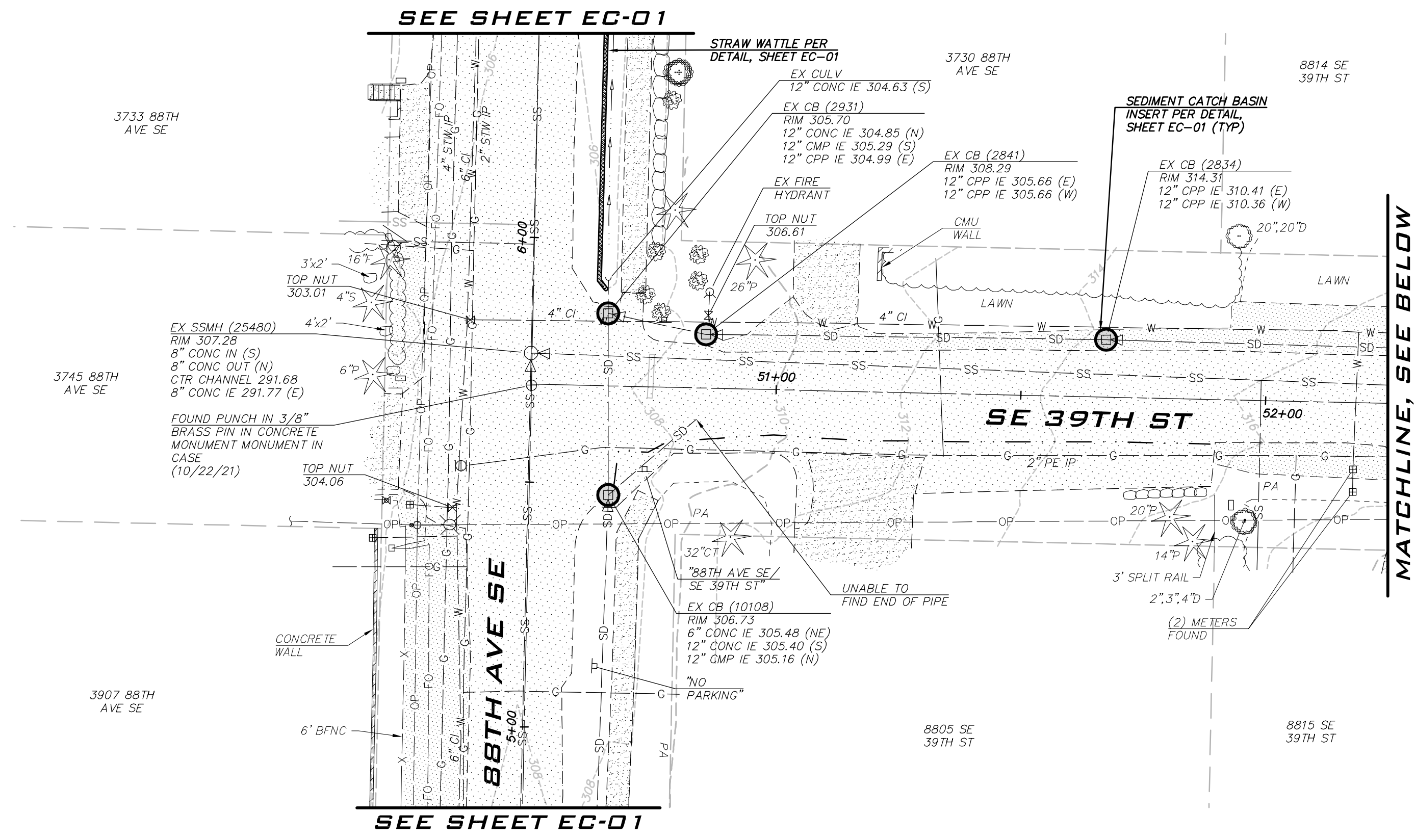
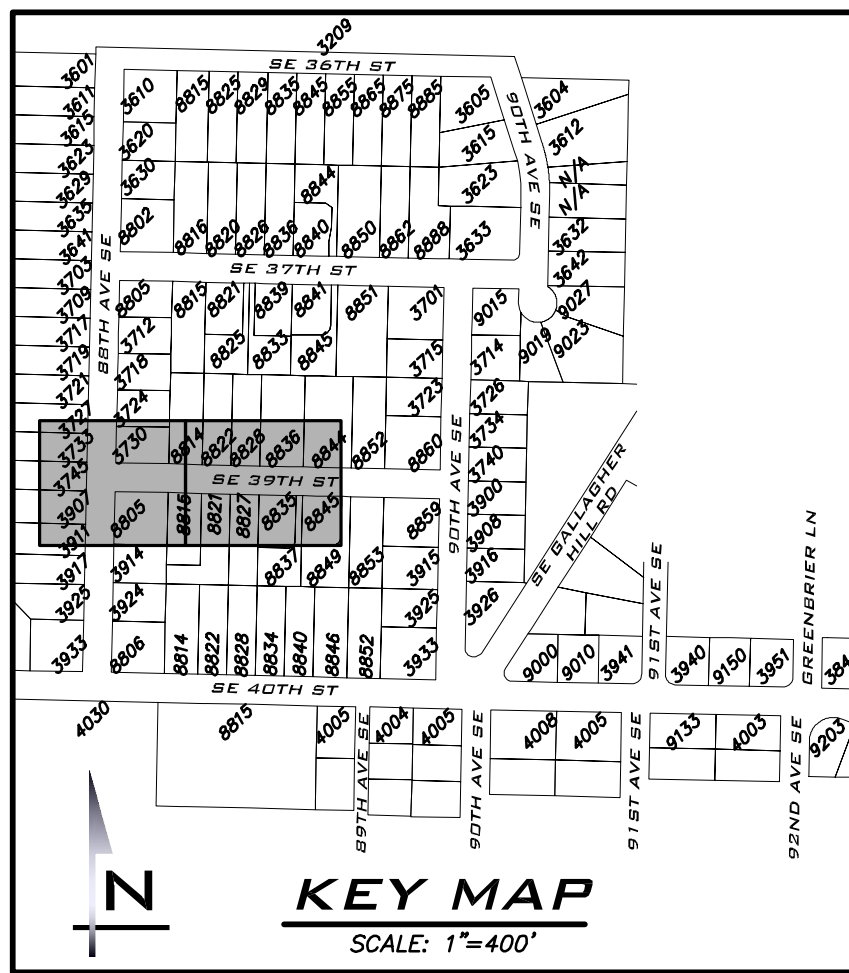
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ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

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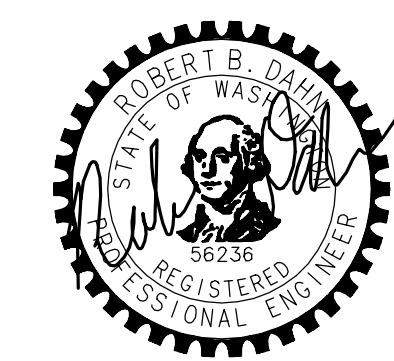


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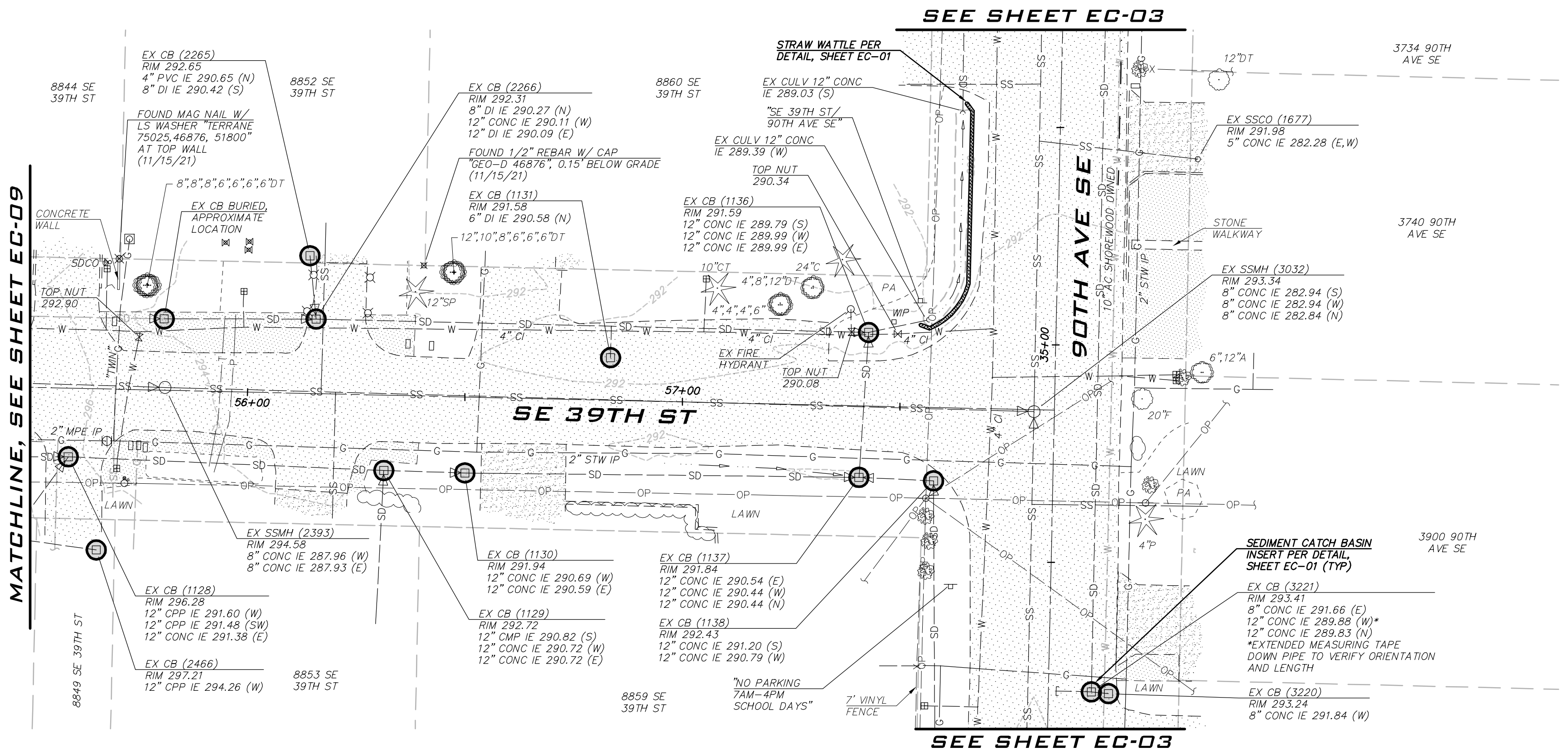
NO.	DATE	BY	REVISIONS

**EXISTING CONDITIONS & TESC
PLAN - SE 39TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON



3/14/22
JOB NUMBER:
21-303
SHEET NAME:
EC-09

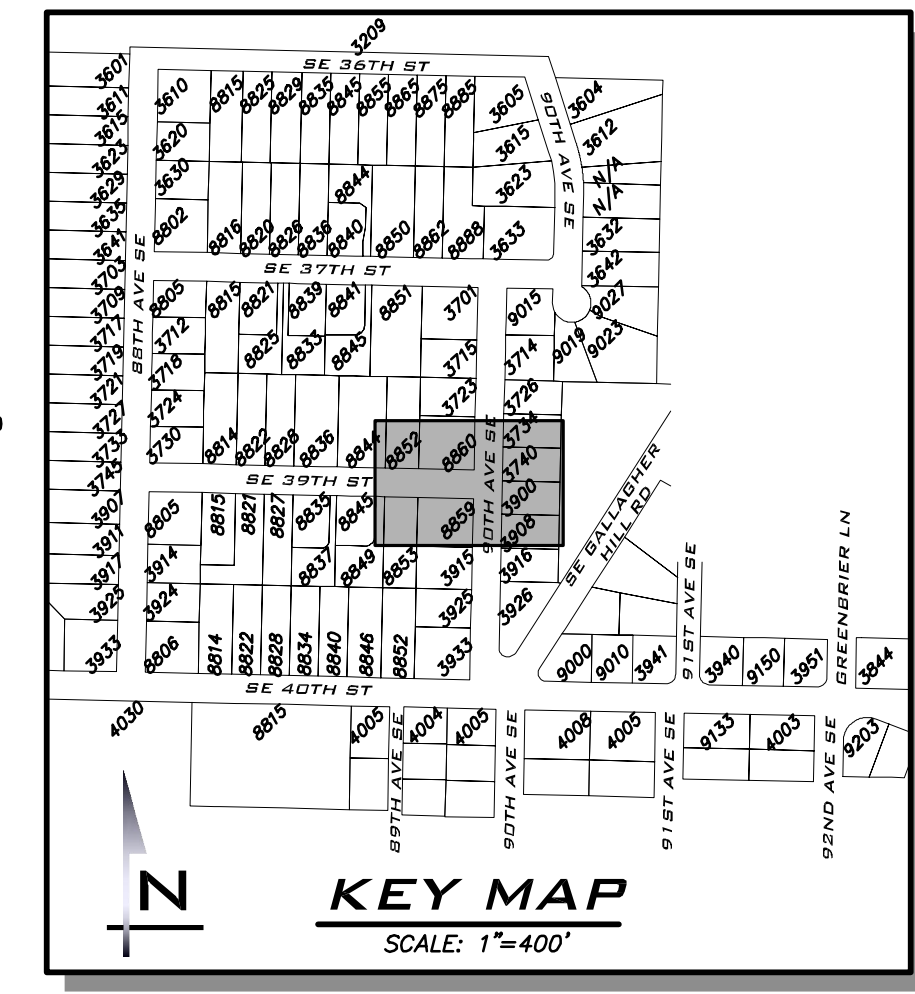
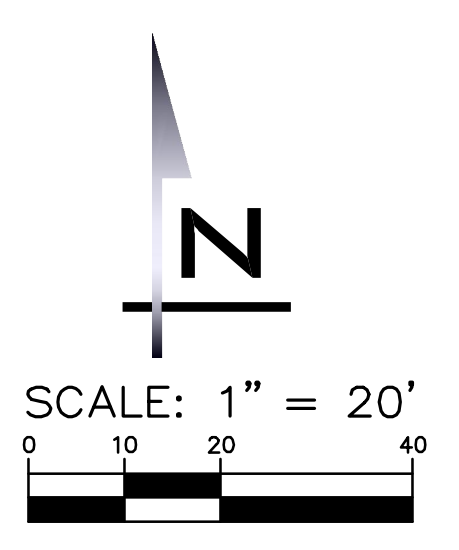


MATCHLINE, SEE SHEET EC-09

SEE SHEET EC-03

90TH AVE SE

SEE SHEET EC-03



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PROJECT ENGINEER: GRACE GARWIN, EIT
DESIGNER: CAROL DOGGETT
ISSUE DATE: 3/14/2022

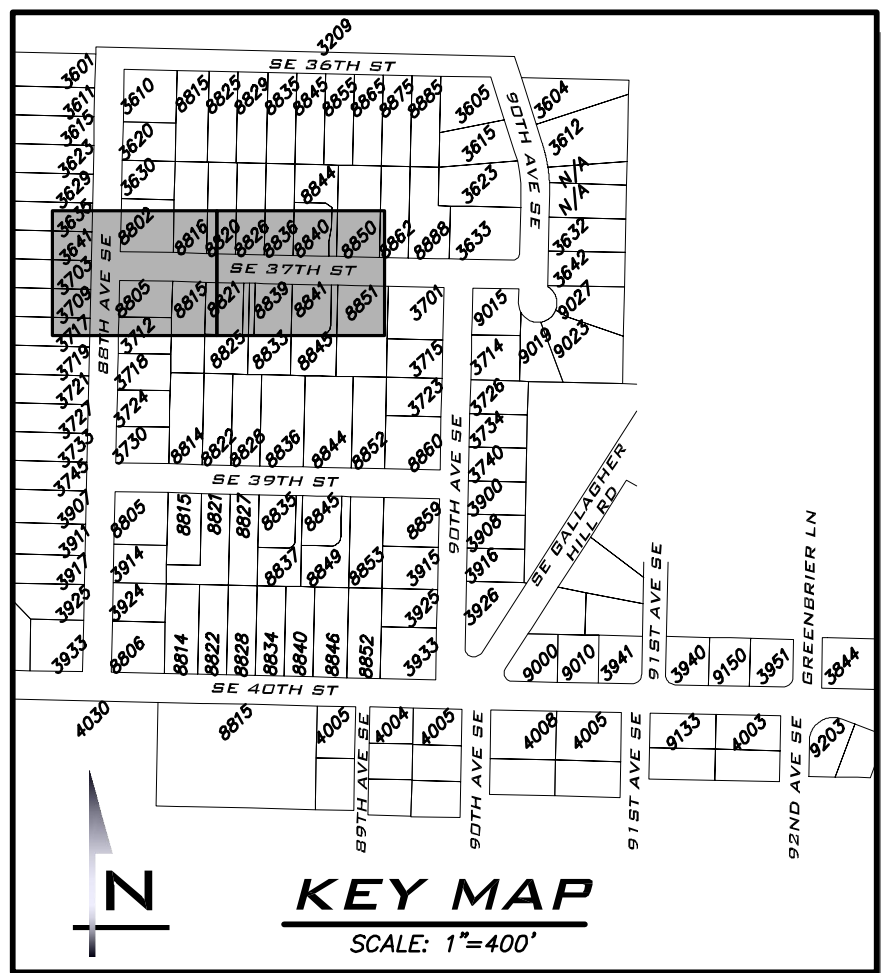
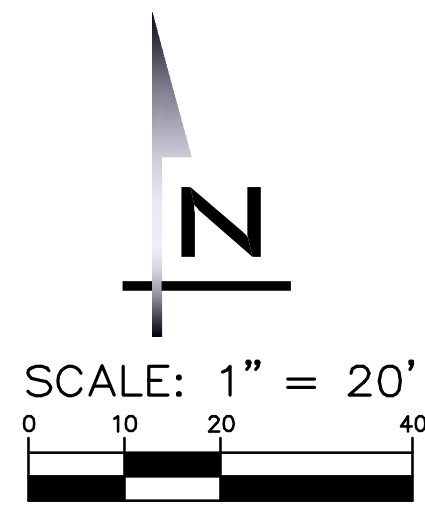
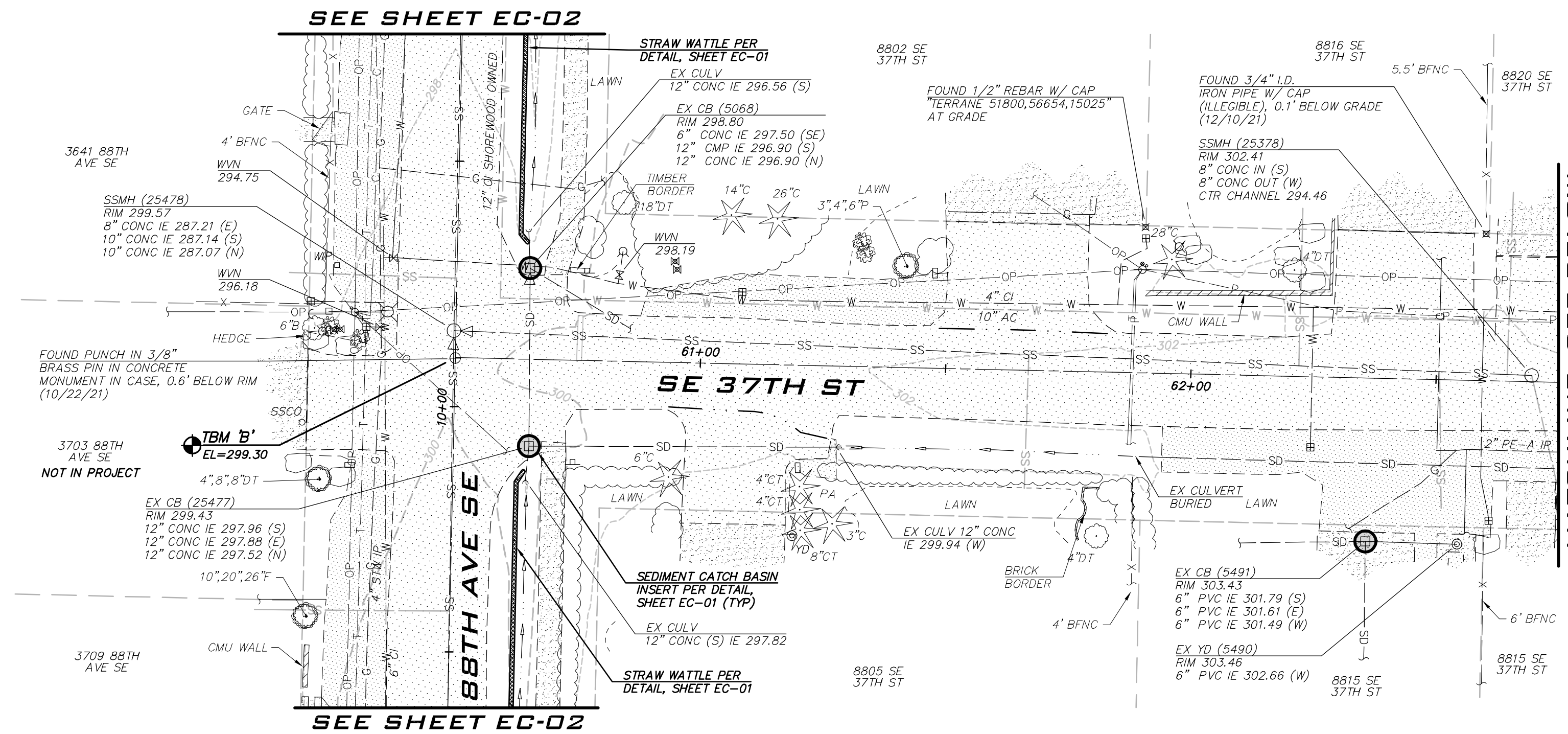
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EXISTING CONDITIONS & TESC PLAN - SE 39TH ST
2022 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

Professional Engineer seal for Robert B. Dahn, State of Washington, Registered Professional Engineer, No. 56236. Date: 3/14/22. Job Number: 21-303. Sheet Name: EC-10. SHT 16 OF 59.

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22-54
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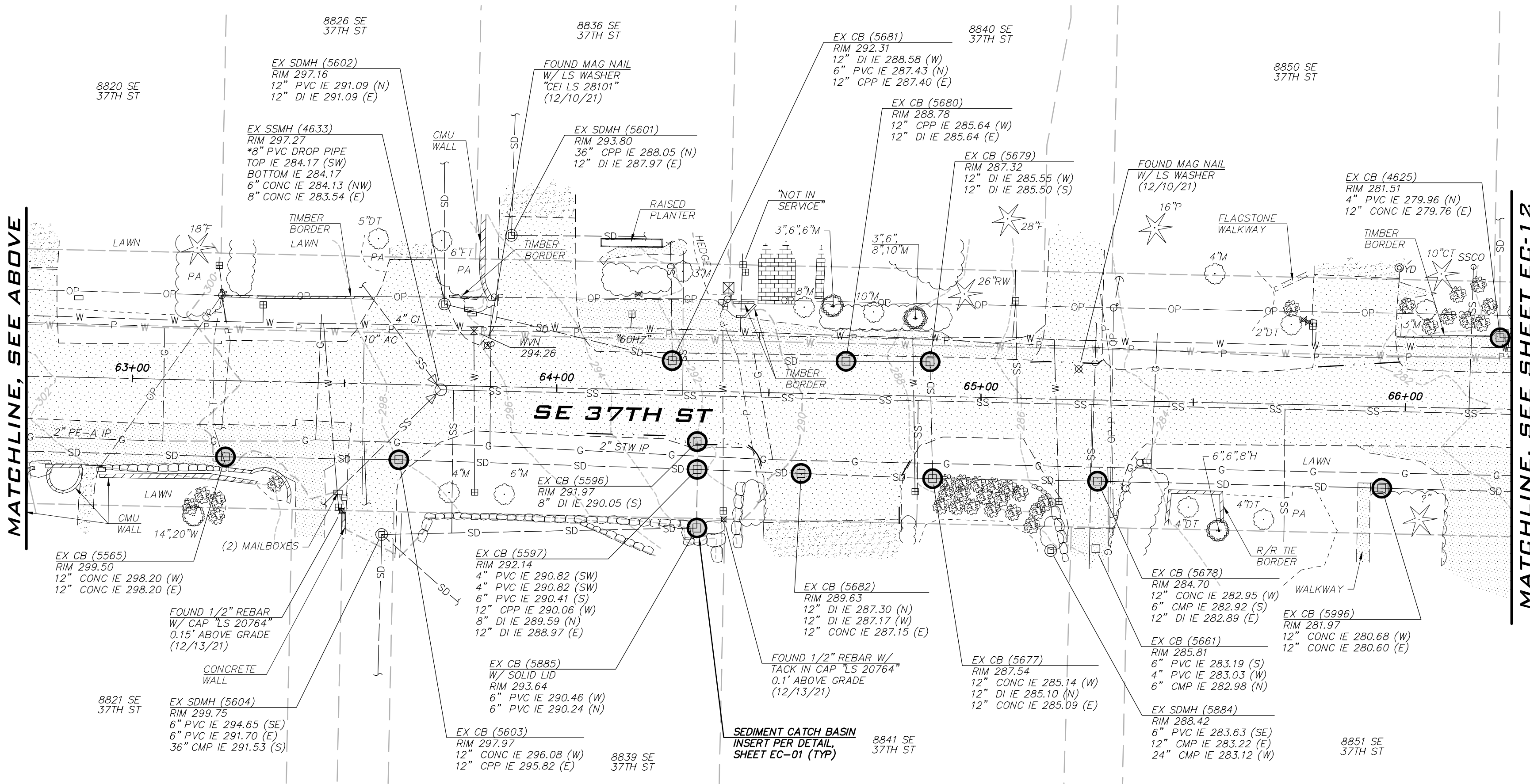
SCALE: AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

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GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

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**EXISTING CONDITIONS & TESC
 PLAN - SE 37TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT**

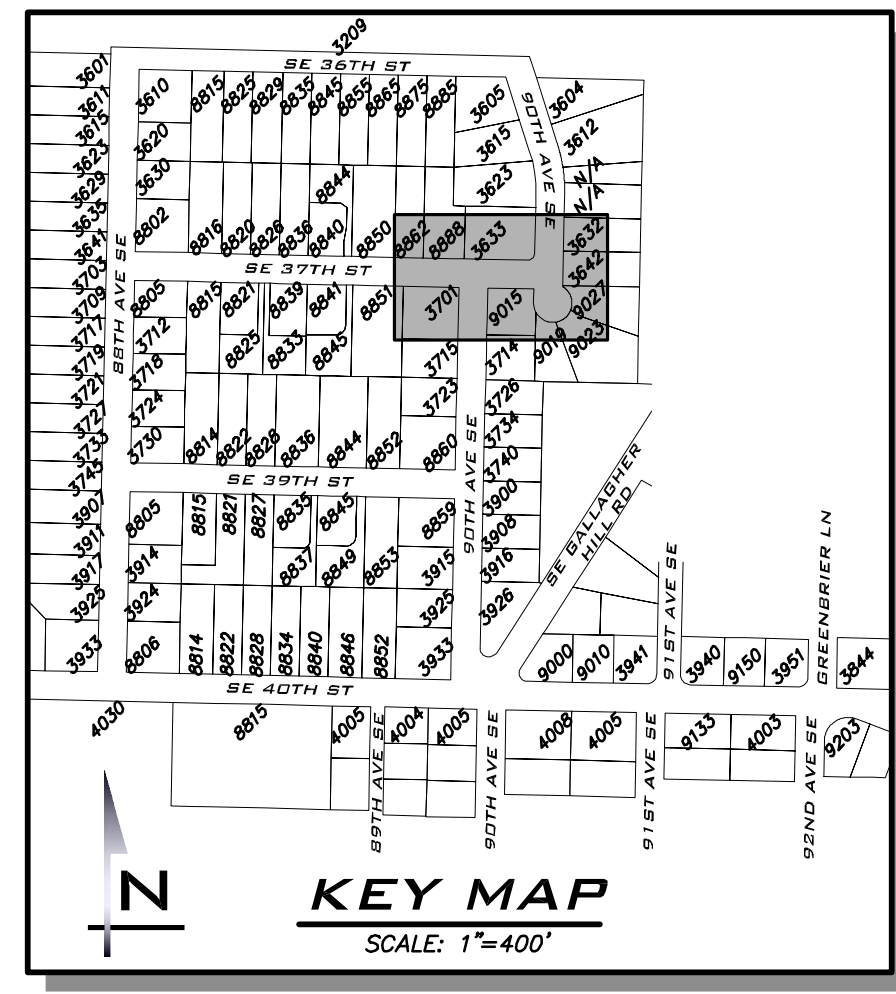
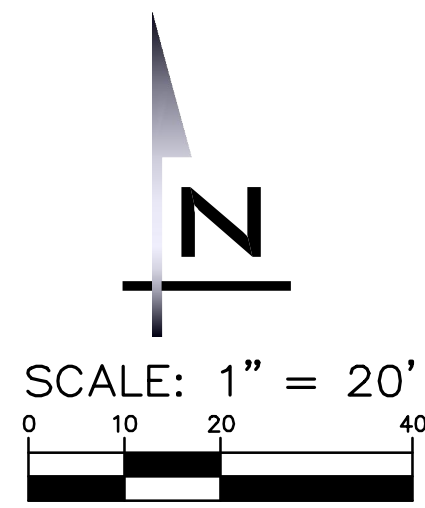
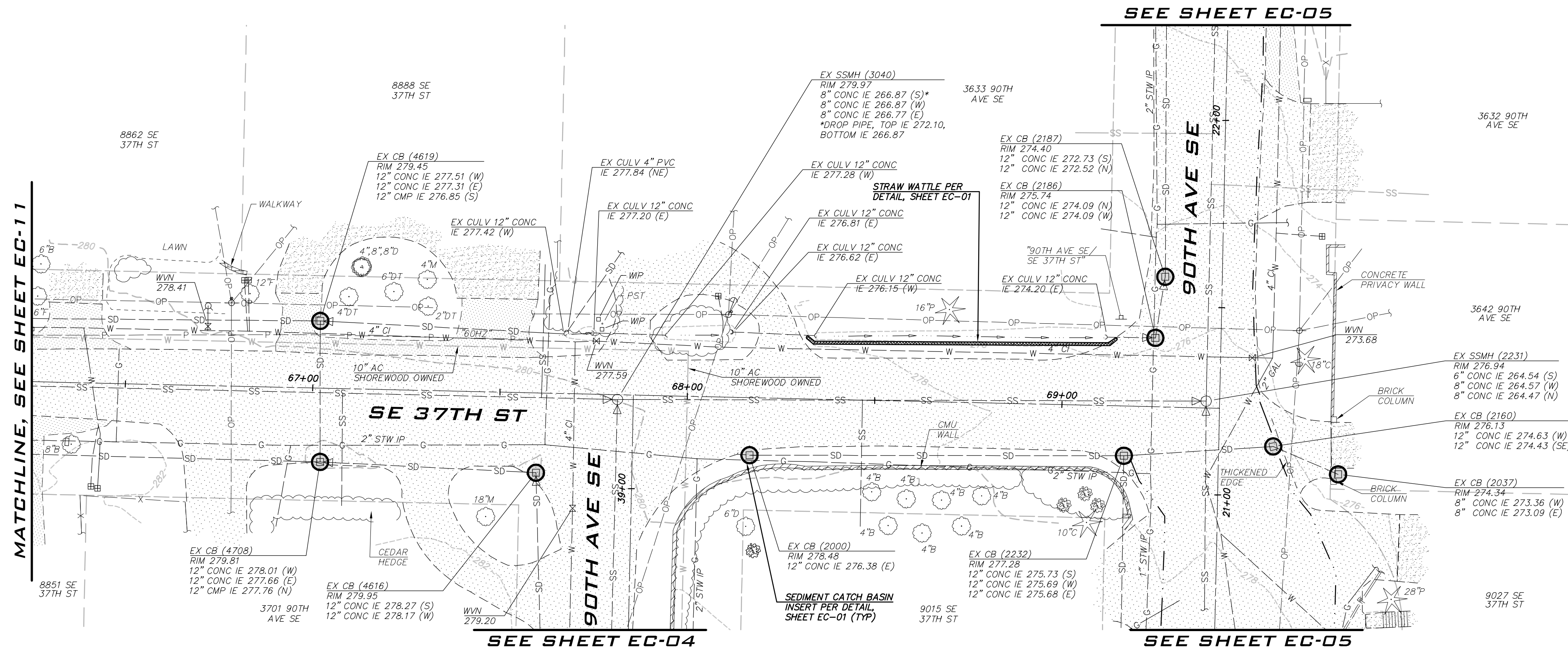
CITY OF MERCER ISLAND WASHINGTON

3/14/22

JOB NUMBER:
21-303

SHEET NAME:
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SHT 17 OF 59



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

NO.	DATE	BY	REVISIONS

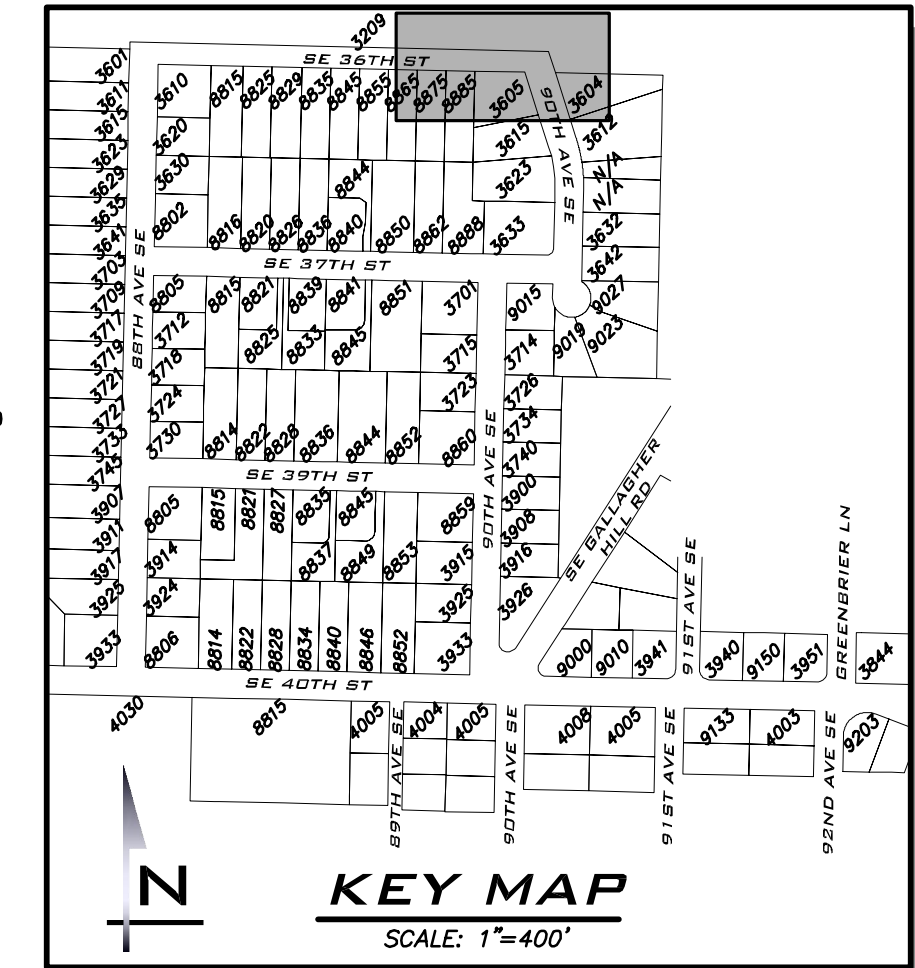
EXISTING CONDITIONS & TESC
PLAN - SE 37TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
EC-12
 SHT **18** OF **59**

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

SCALE:
AS NOTED

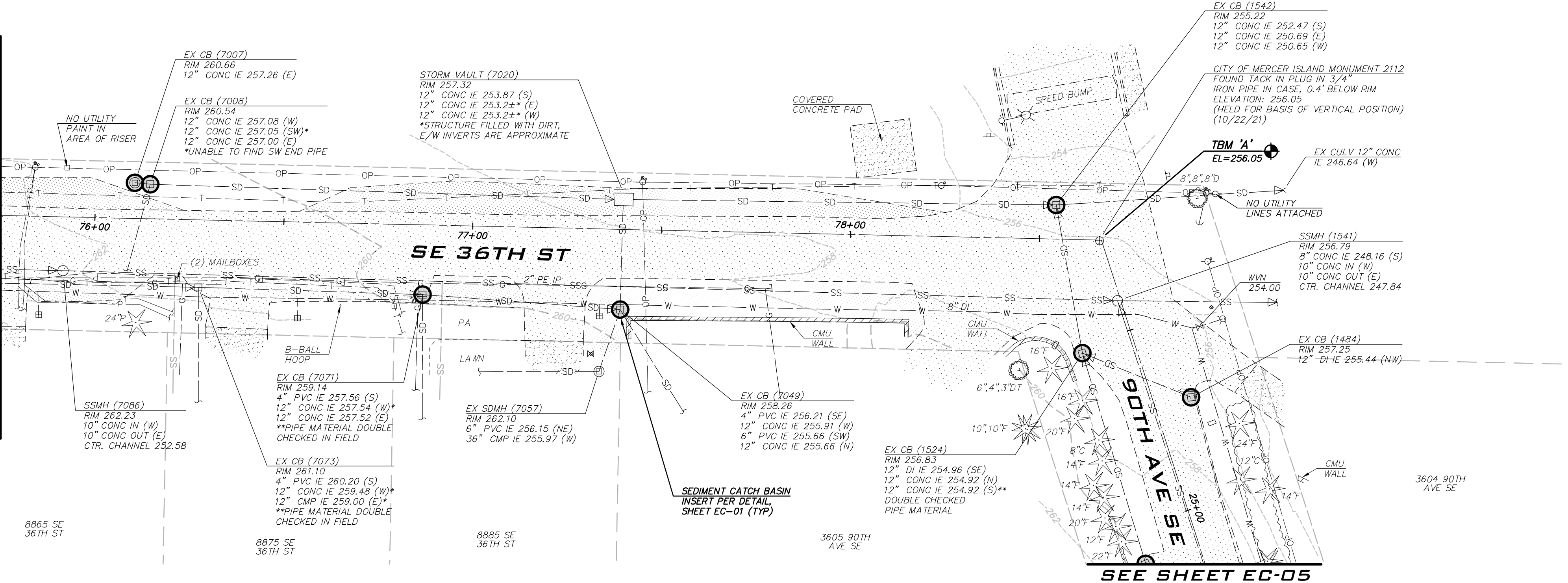
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

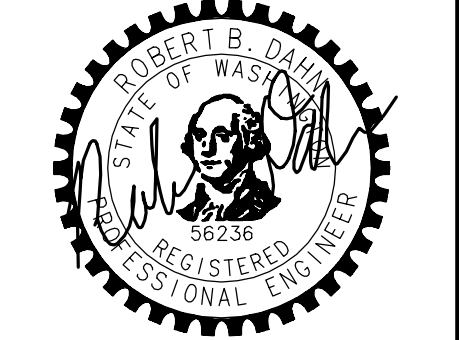
MATCHLINE, SEE SHEET EC-13



SEE SHEET EC-05

NO	DATE	BY	REVISIONS

EXISTING CONDITIONS & TESC
PLAN - SE 36TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



3/14/22

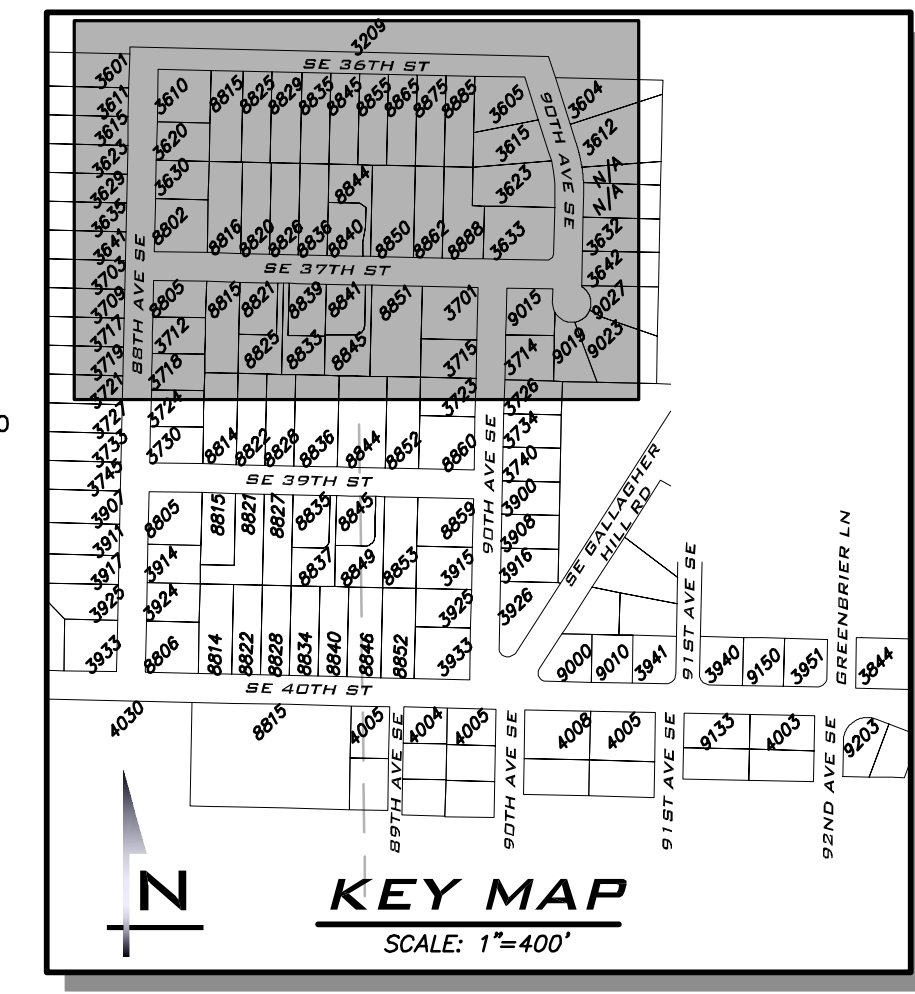
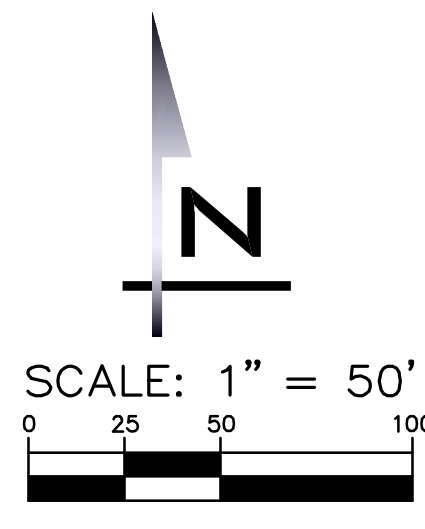
JOB NUMBER:
21-303

SHEET NAME:
EC-14

SHT **20** OF **59**

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

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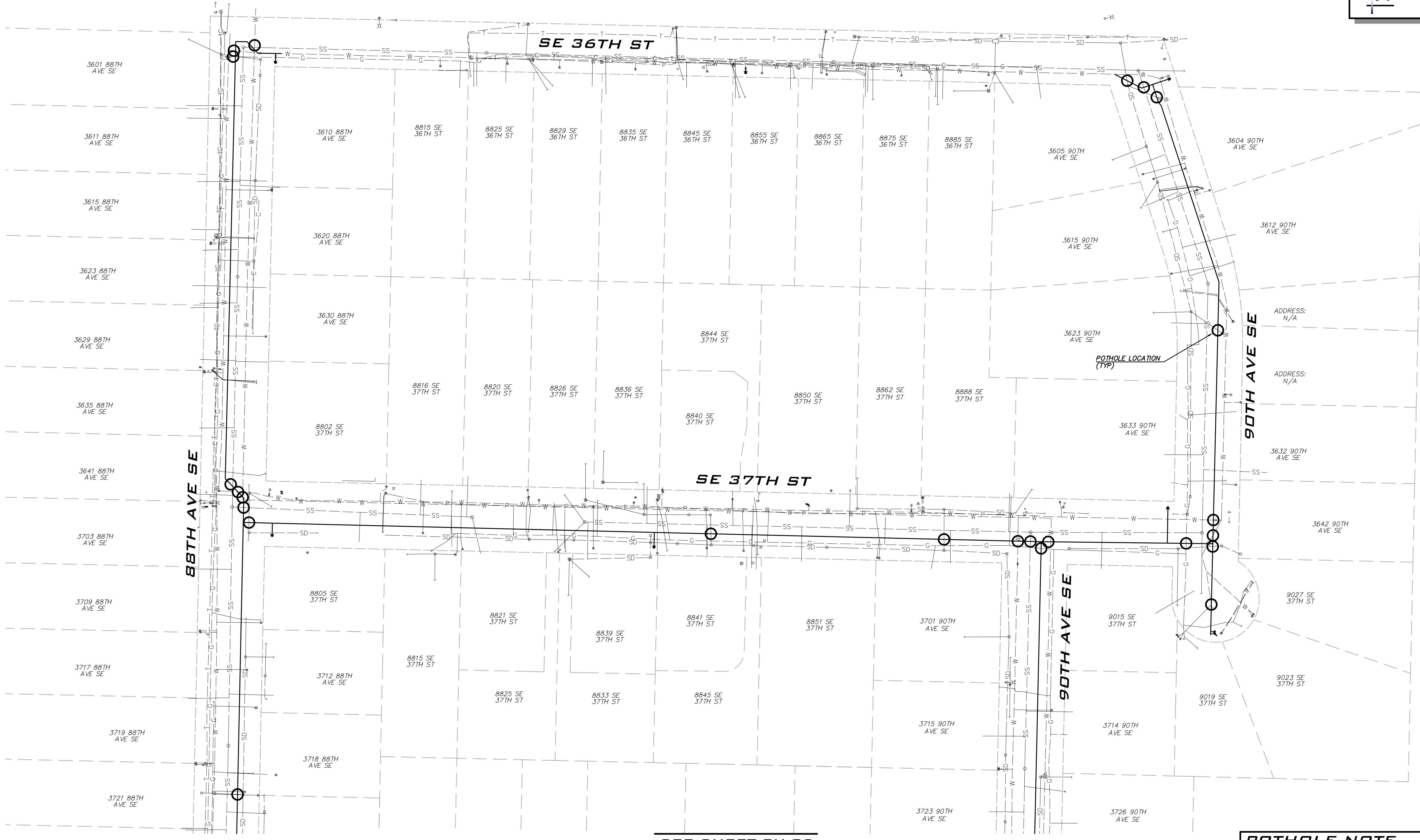
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



SEE SHEET PH-02

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

NO	DATE	BY	REVISIONS

**CONTRACTOR PAID
POTHOLING PLAN
2022 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON

3/14/22

JOB NUMBER:
21-303

SHEET NAME:
PH-01

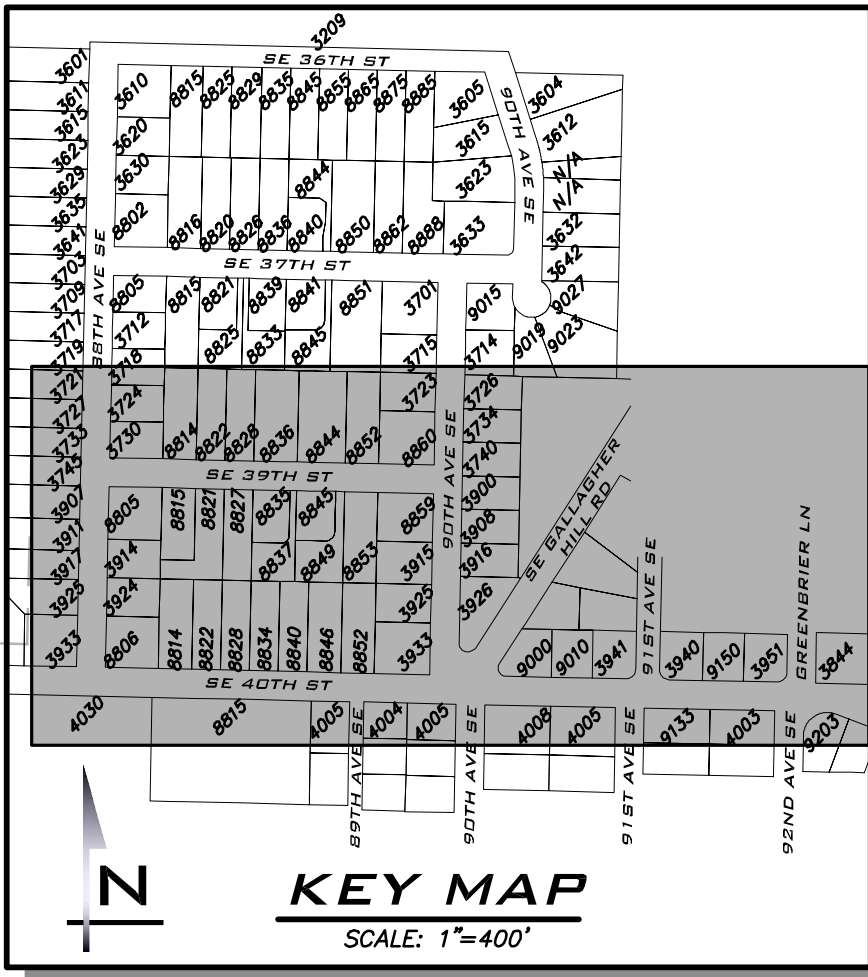
SHT **21** OF **59**

22-54
Mar 14, 2022 10:23am User: cadoggett
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SCALE: 1" = 50'

SEE SHEET PH-01



BLUELINE

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

SCALE:

AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

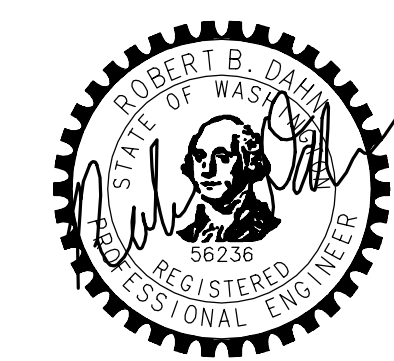
DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

REVISIONS

NO DATE BY

**CONTRACTOR PAID
POTHOLING PLAN
2022 WATER SYSTEM
IMPROVEMENTS PROJECT**
CITY OF MERCER ISLAND WASHINGTON



3/14/22

JOB NUMBER:

21-303

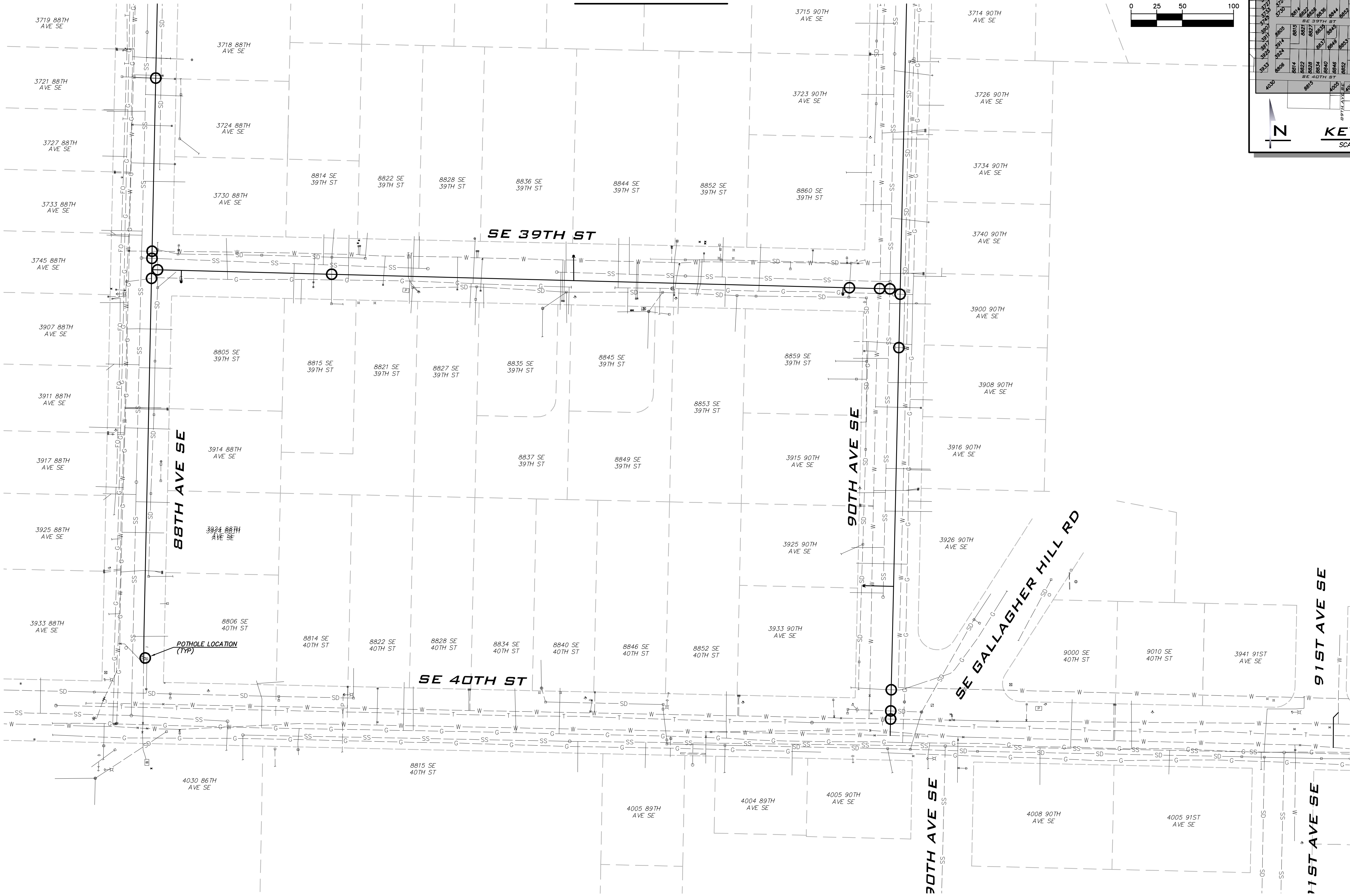
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PH-02

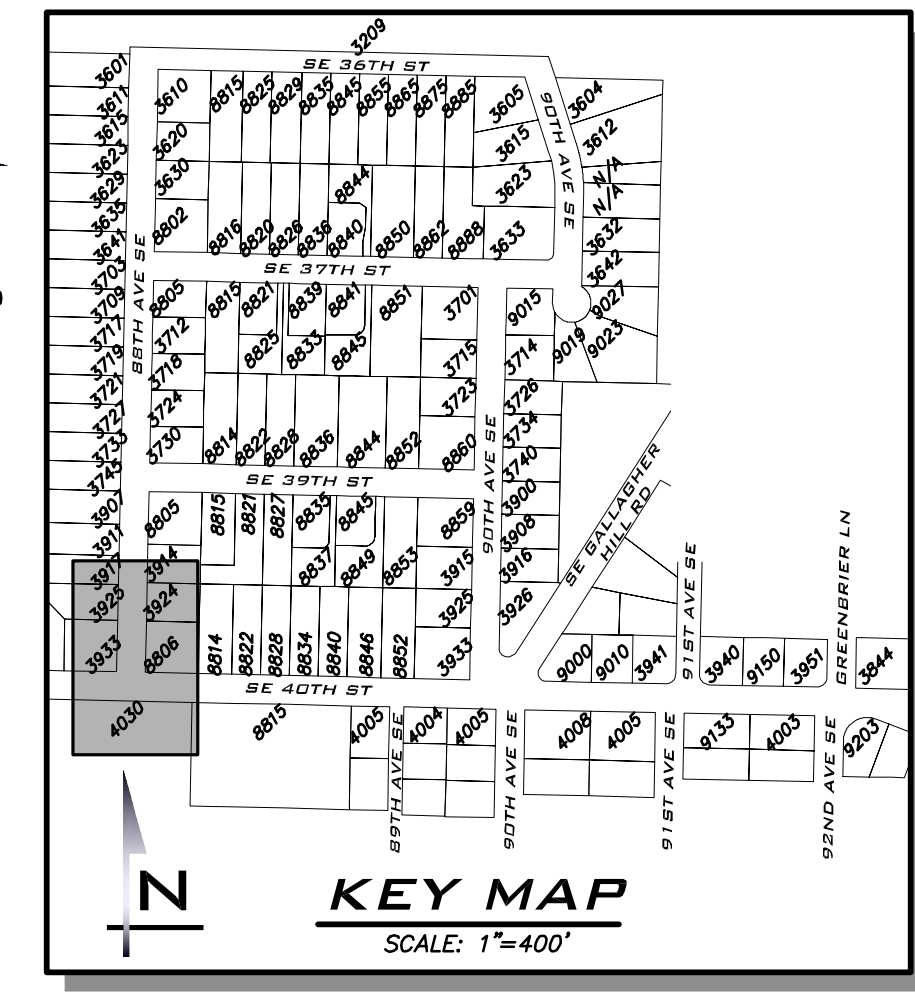
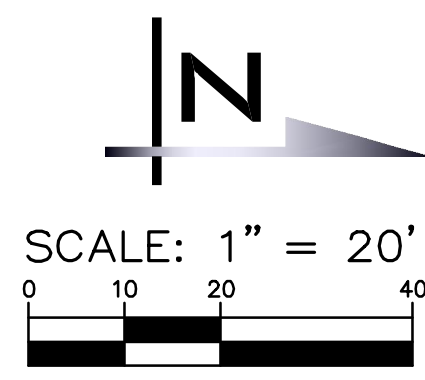
SHT **22** OF **59**

POTHOLE NOTE

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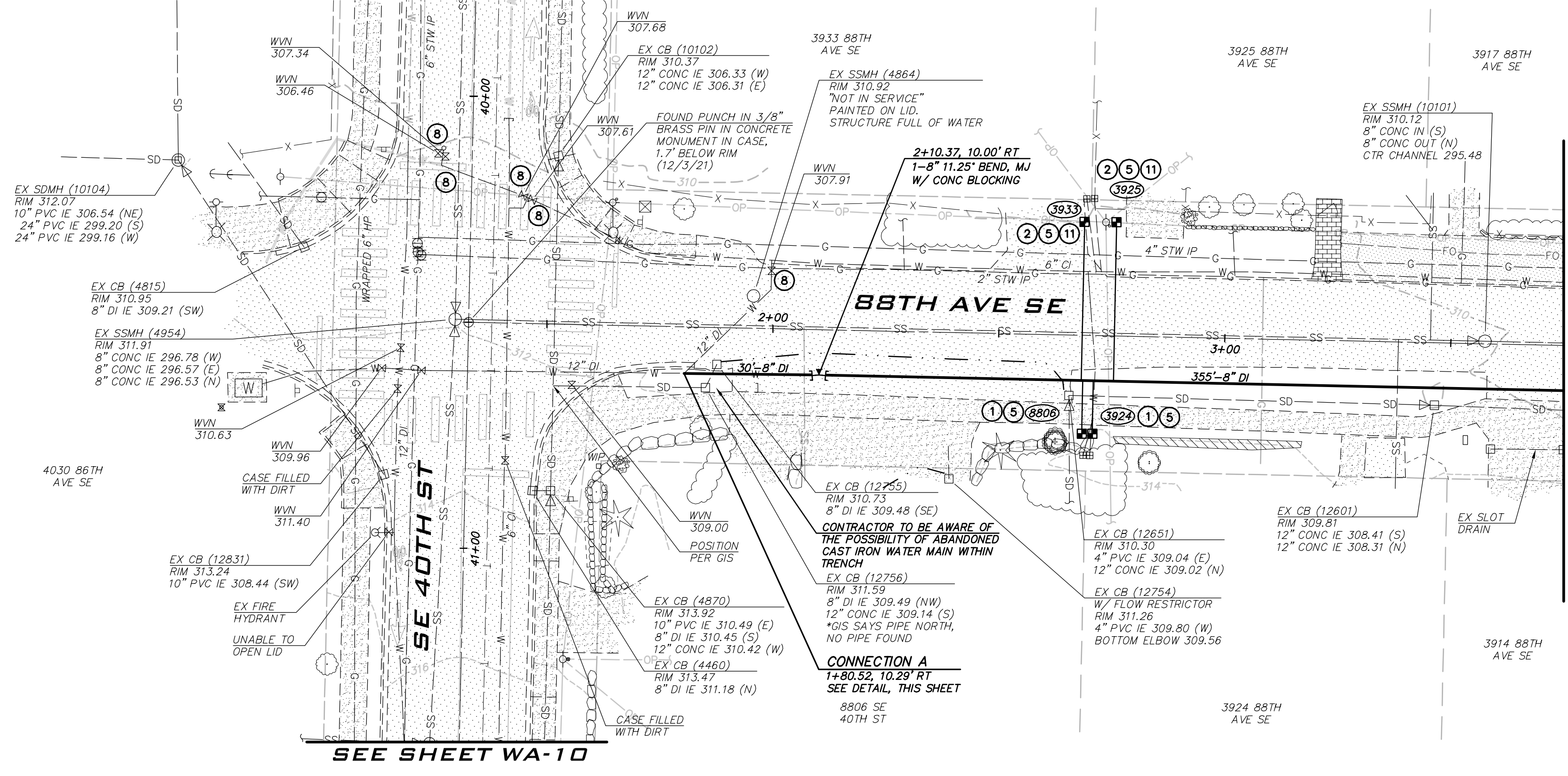
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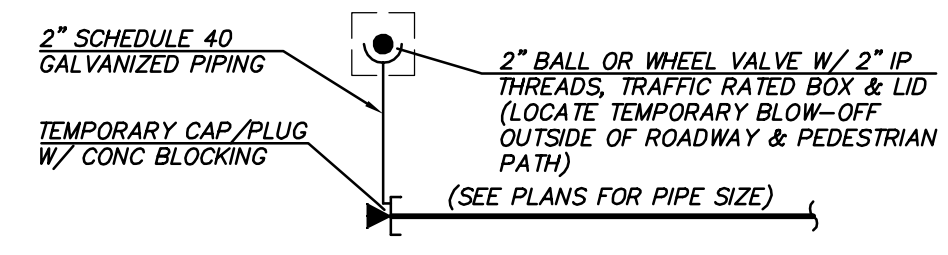
BLUELINE

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WWW.THEBLUENELINEGROUP.COM

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



MATCHLINE, SEE SHEET WA-02



2" TEMPORARY BLOW-OFF NOT TO SCALE

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

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" LONG SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
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 - CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
 - REMOVE EXISTING FIRE HYDRANT, CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
 - EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
 - METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
 - EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
 - REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 - INTERCEPT EXISTING 1.5" SHORT SIDE SERVICE. CUT EXISTING SERVICE LINE AT NEW MAIN. CONNECT TO NEW MAIN PER STD DETAIL W-14.
 - COMPLETE SERVICE INSTALLATION PRIOR TO ABANDONMENT.

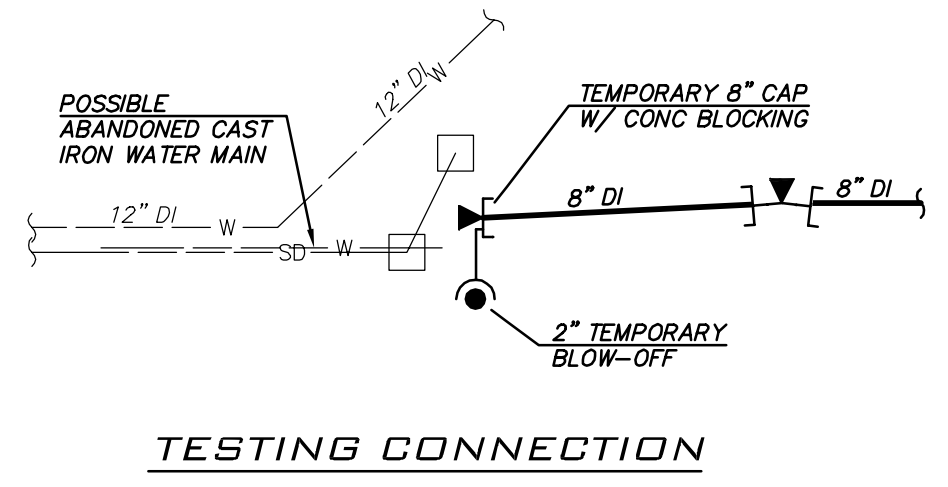
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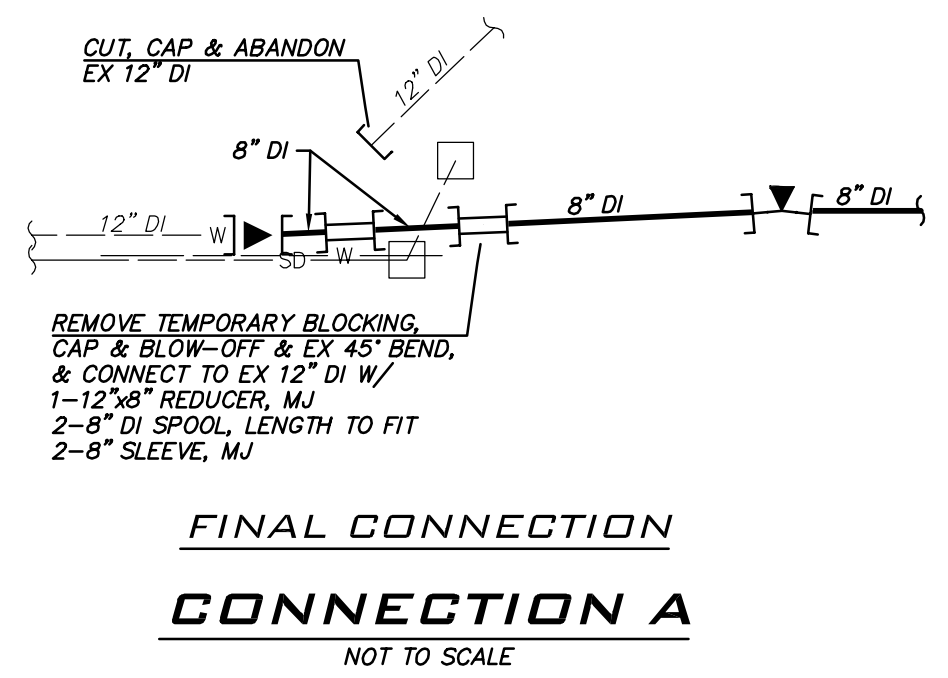
NO	DATE	BY	REVISIONS

WATER PLAN - 88TH AVE SE
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

3/14/22
JOB NUMBER: 21-303
SHEET NAME: WA-01
SHT 23 OF 59



TESTING CONNECTION

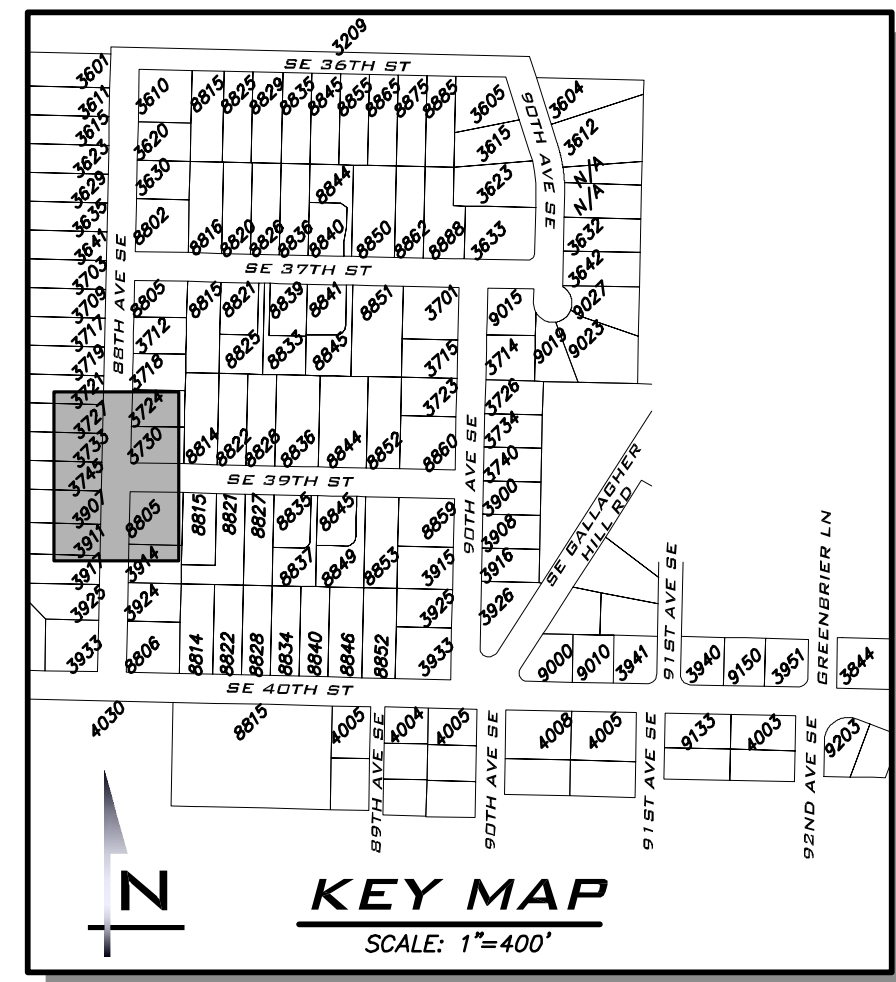
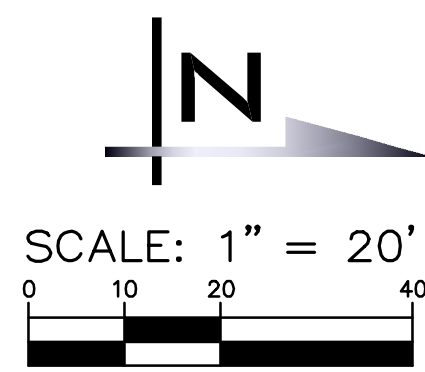


FINAL CONNECTION CONNECTION A NOT TO SCALE



MATCHLINE, SEE SHEET WA-02

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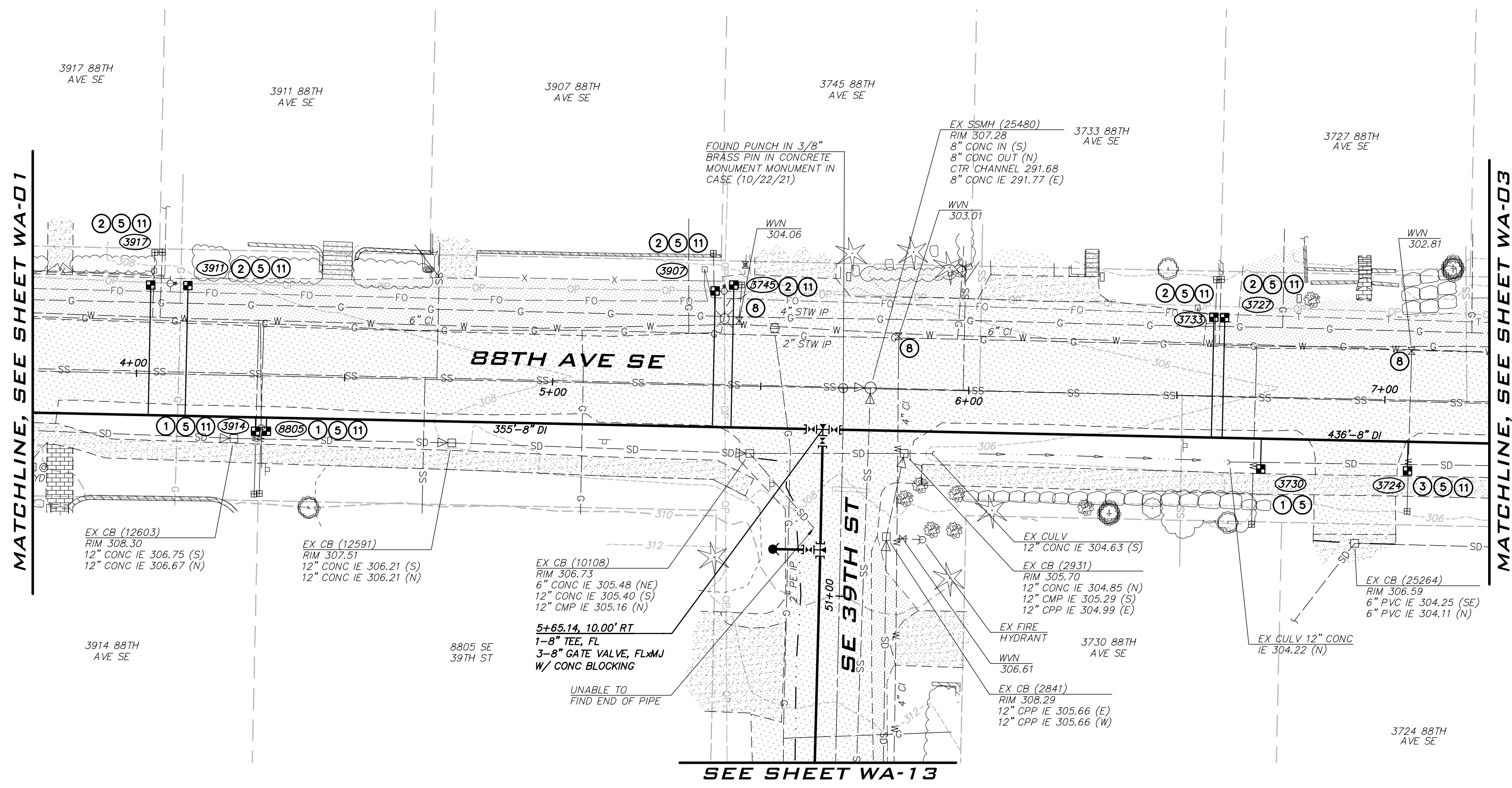
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



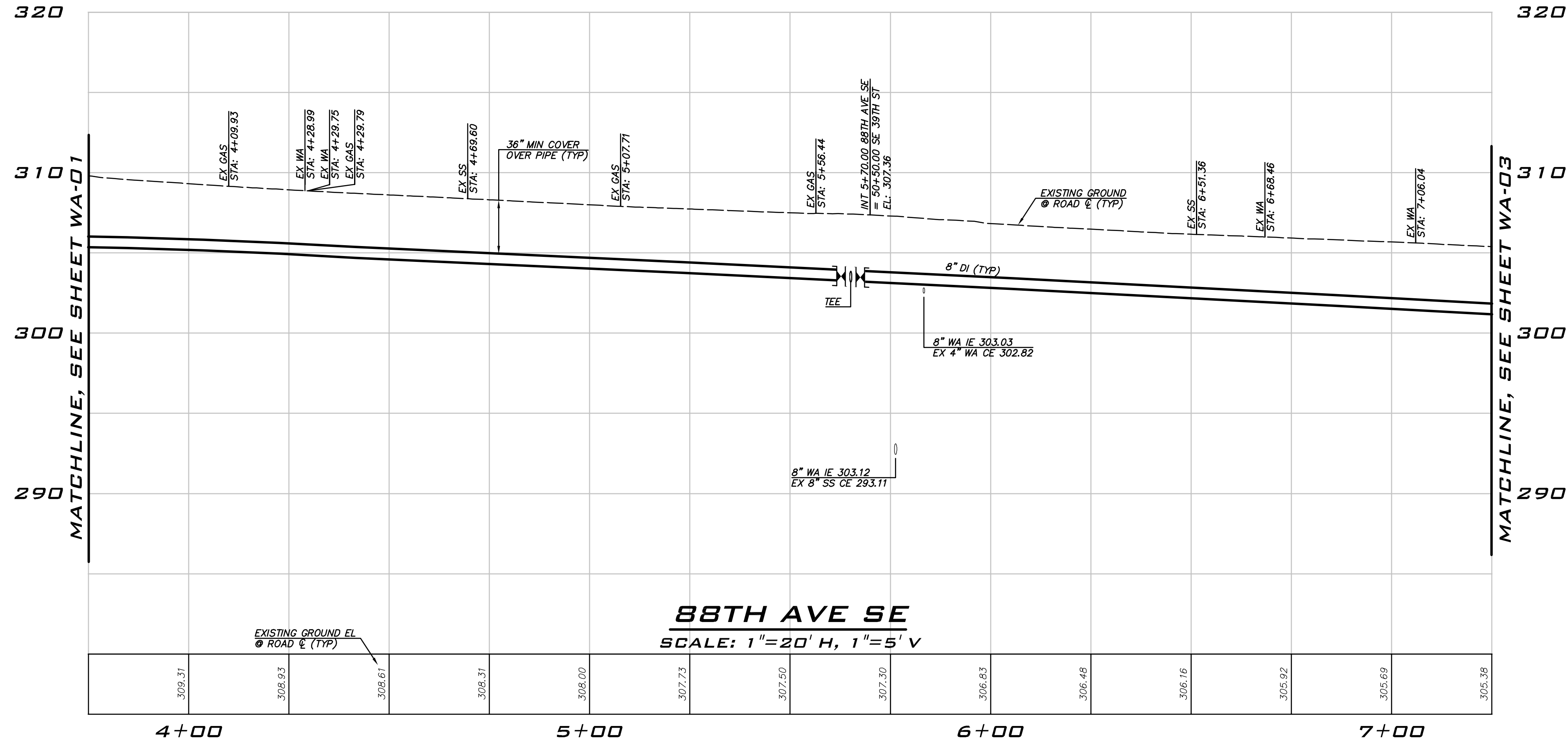
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NO	DATE	BY	REVISIONS

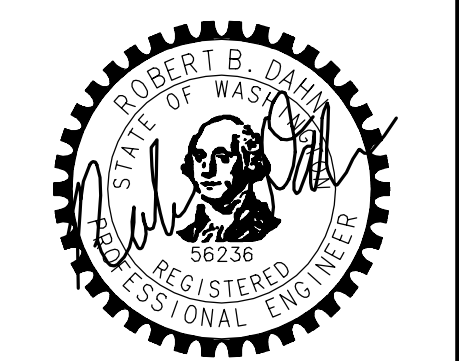
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WATER PLAN - 88TH AVE SE
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

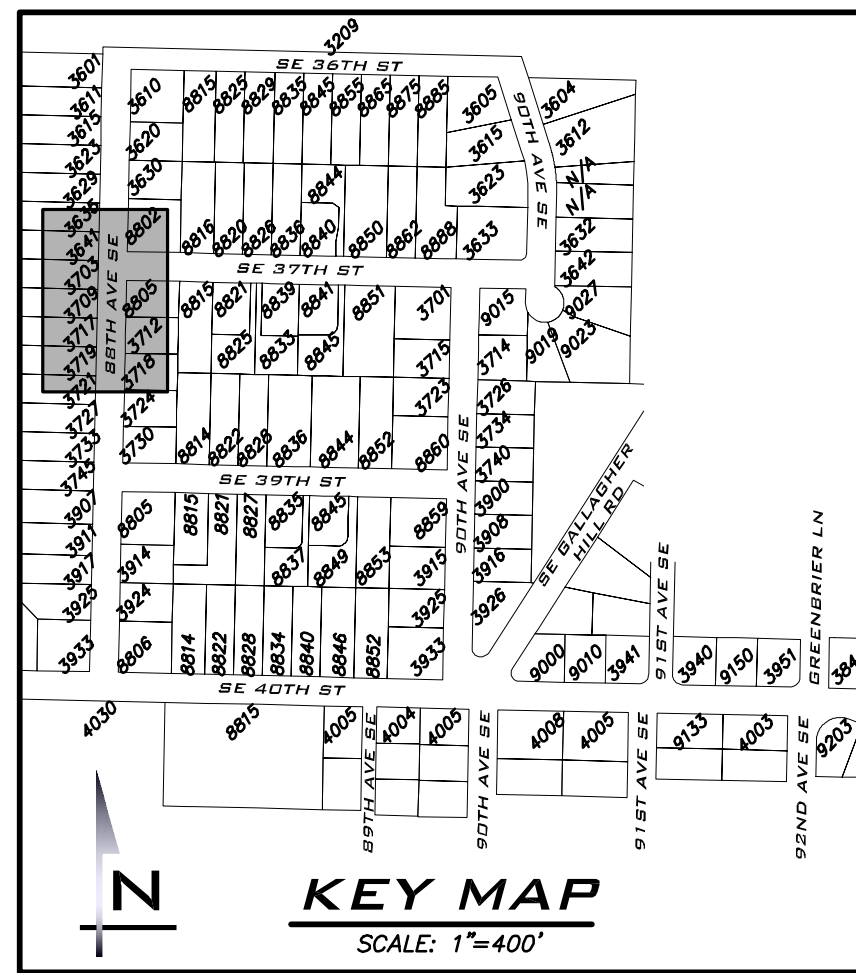
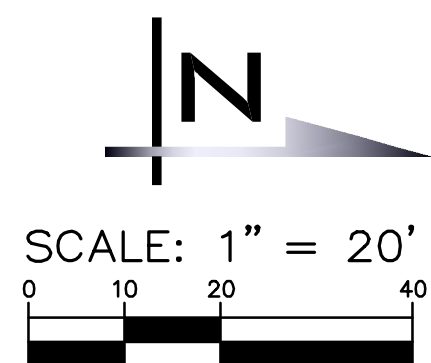


3/14/22

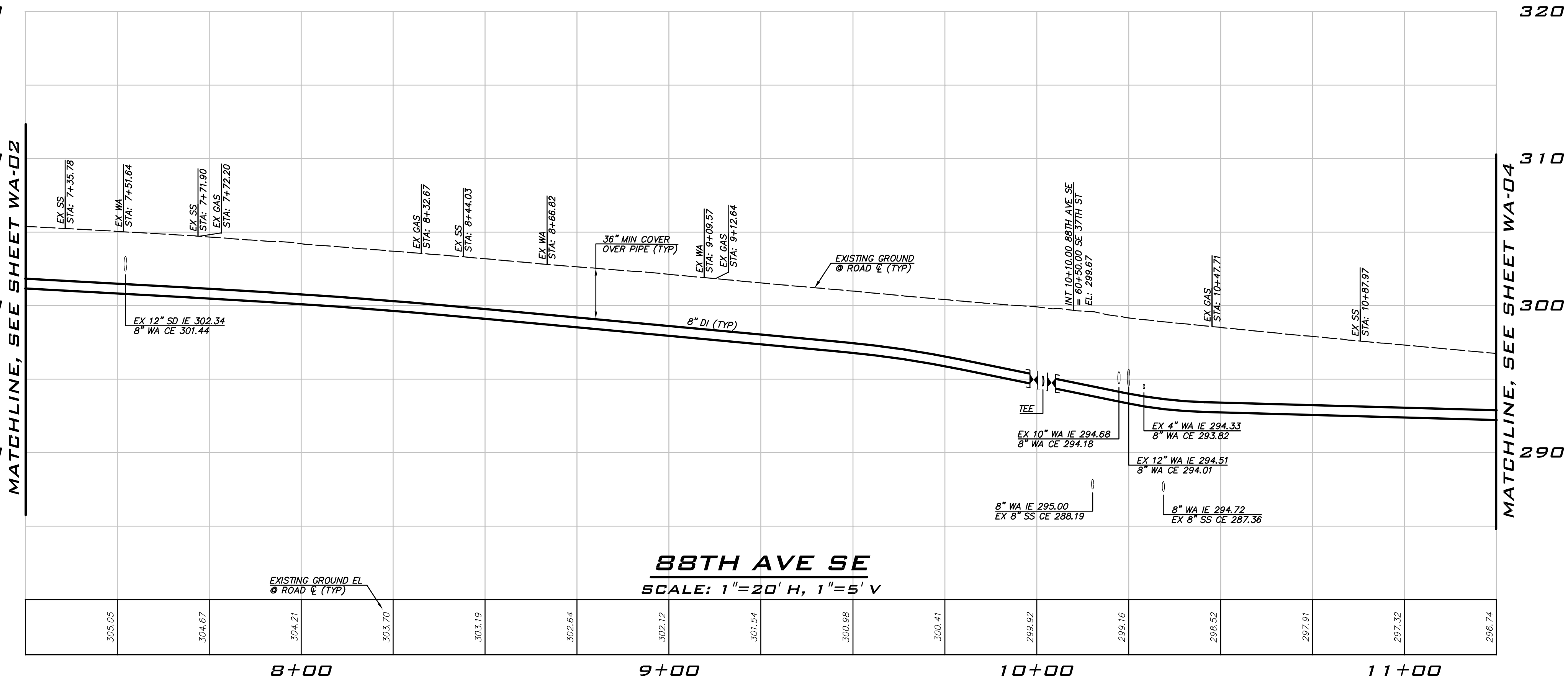
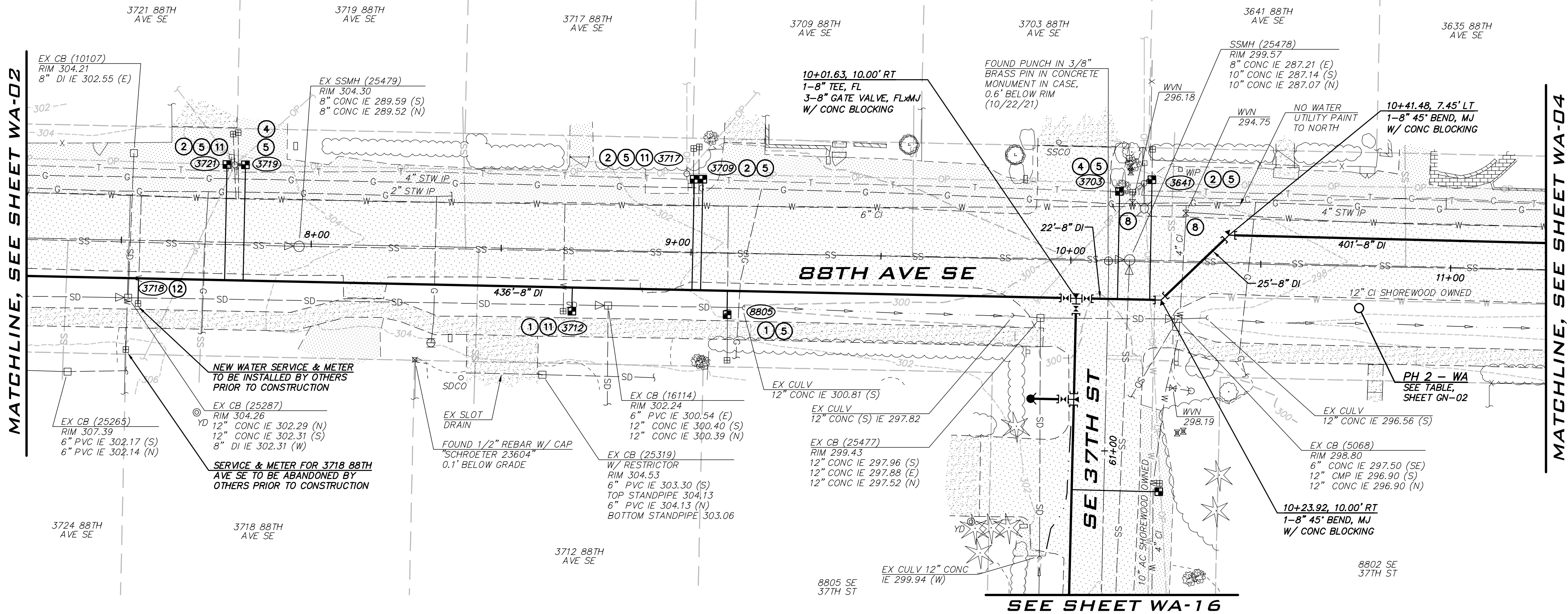
JOB NUMBER:
21-303

SHEET NAME:
WA-02

SHT **24** OF **59**



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



- ### CONSTRUCTION NOTES
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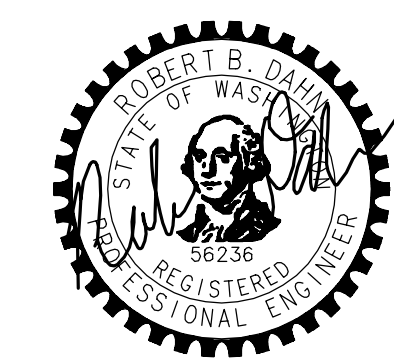
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EXISTING UTILITY NOTE

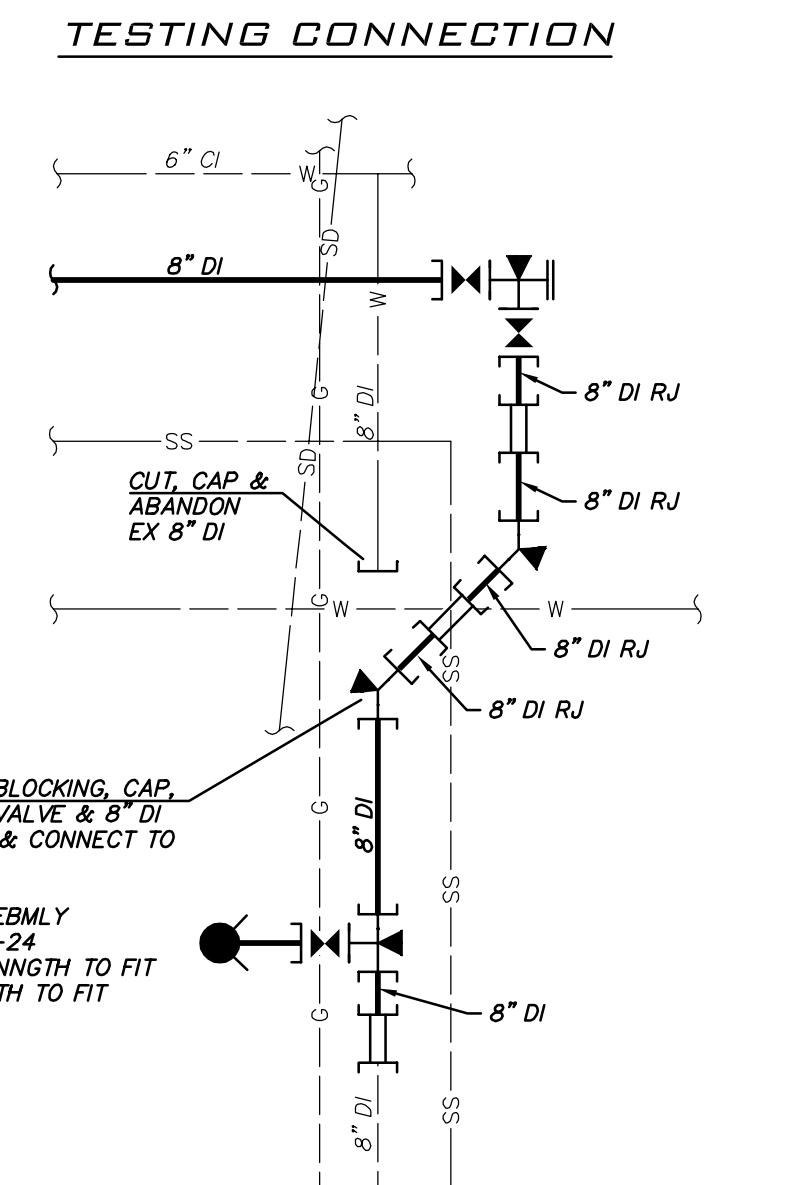
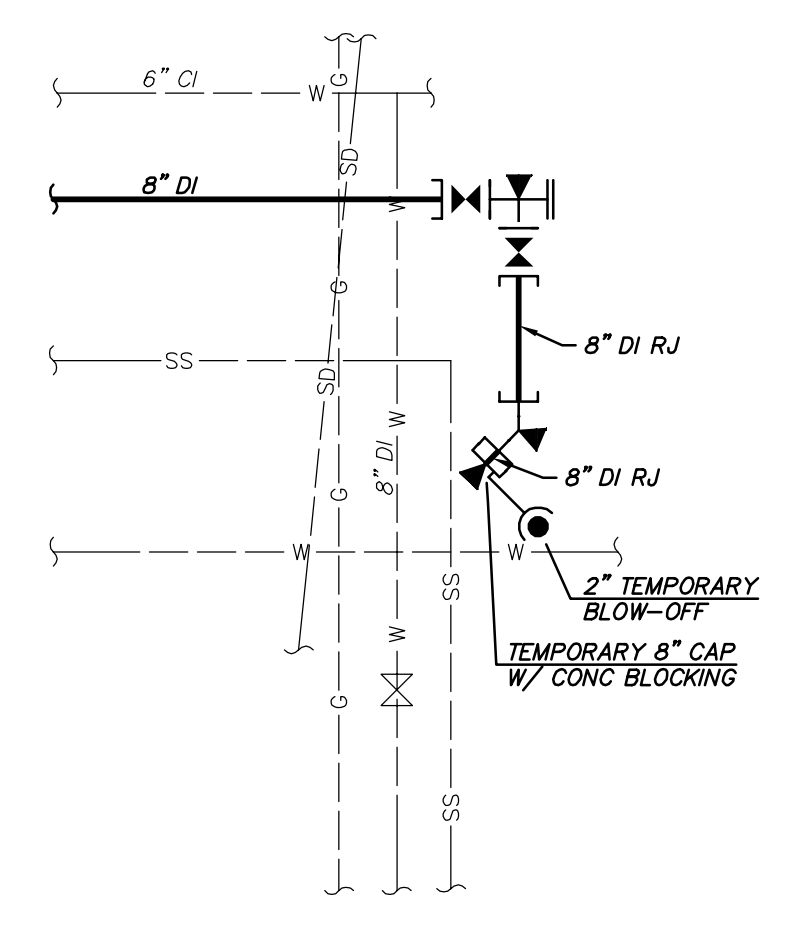
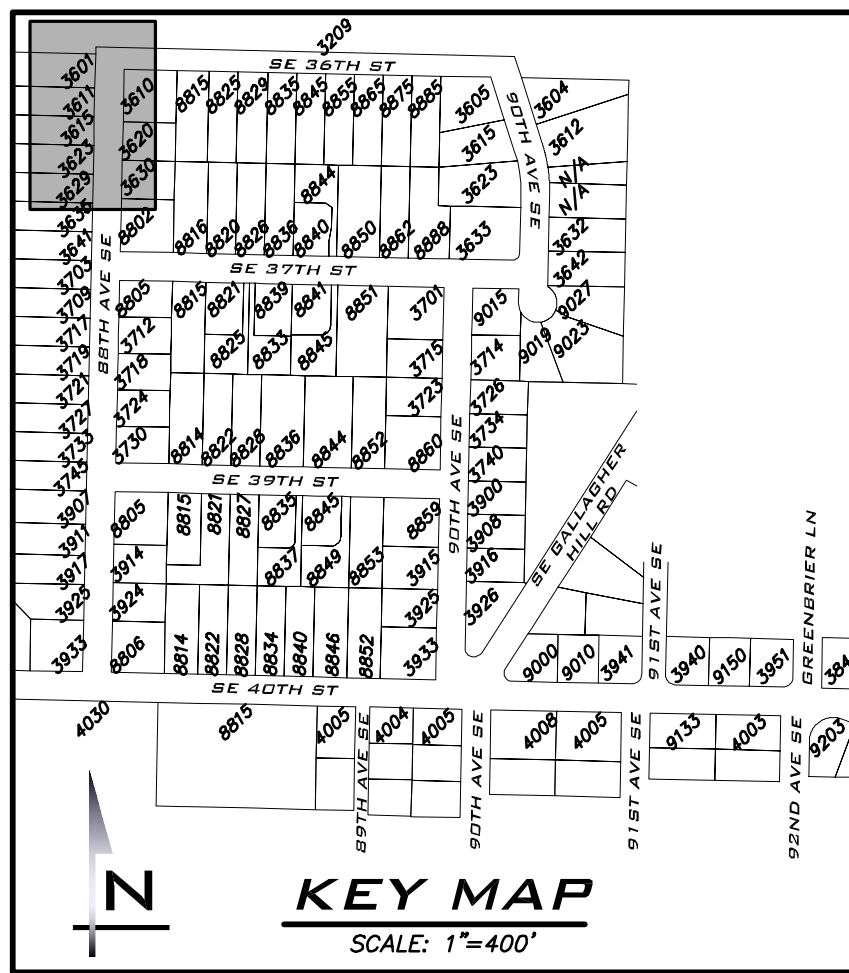
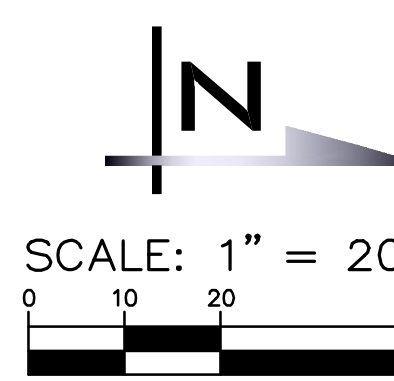
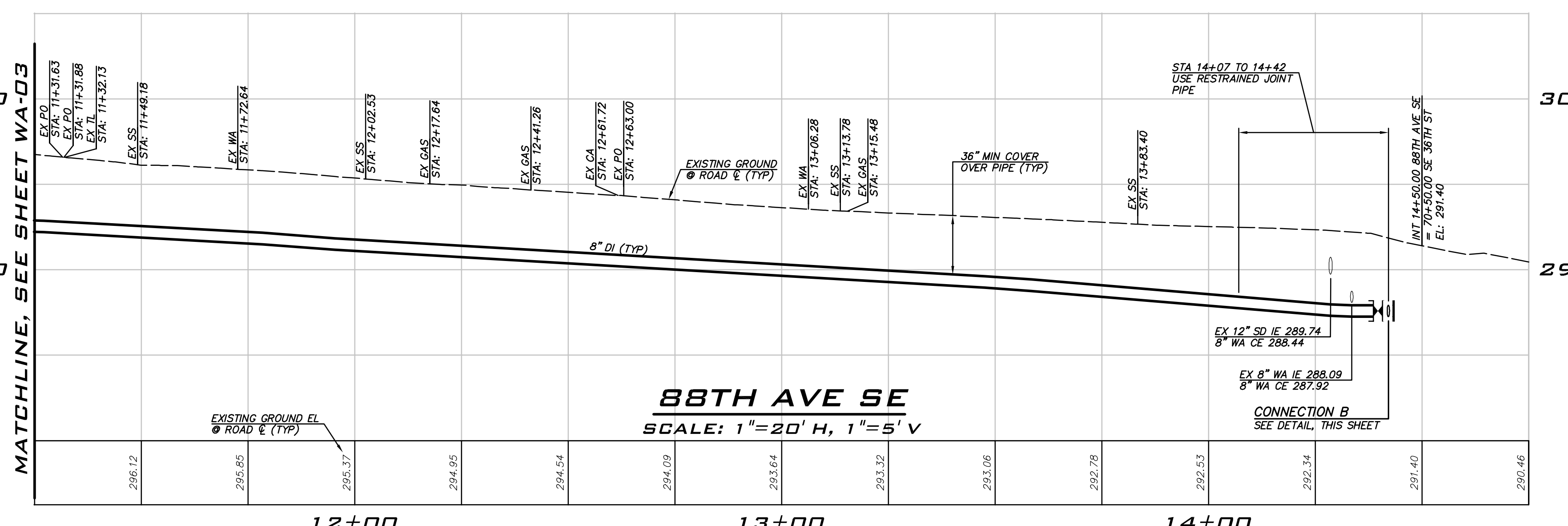
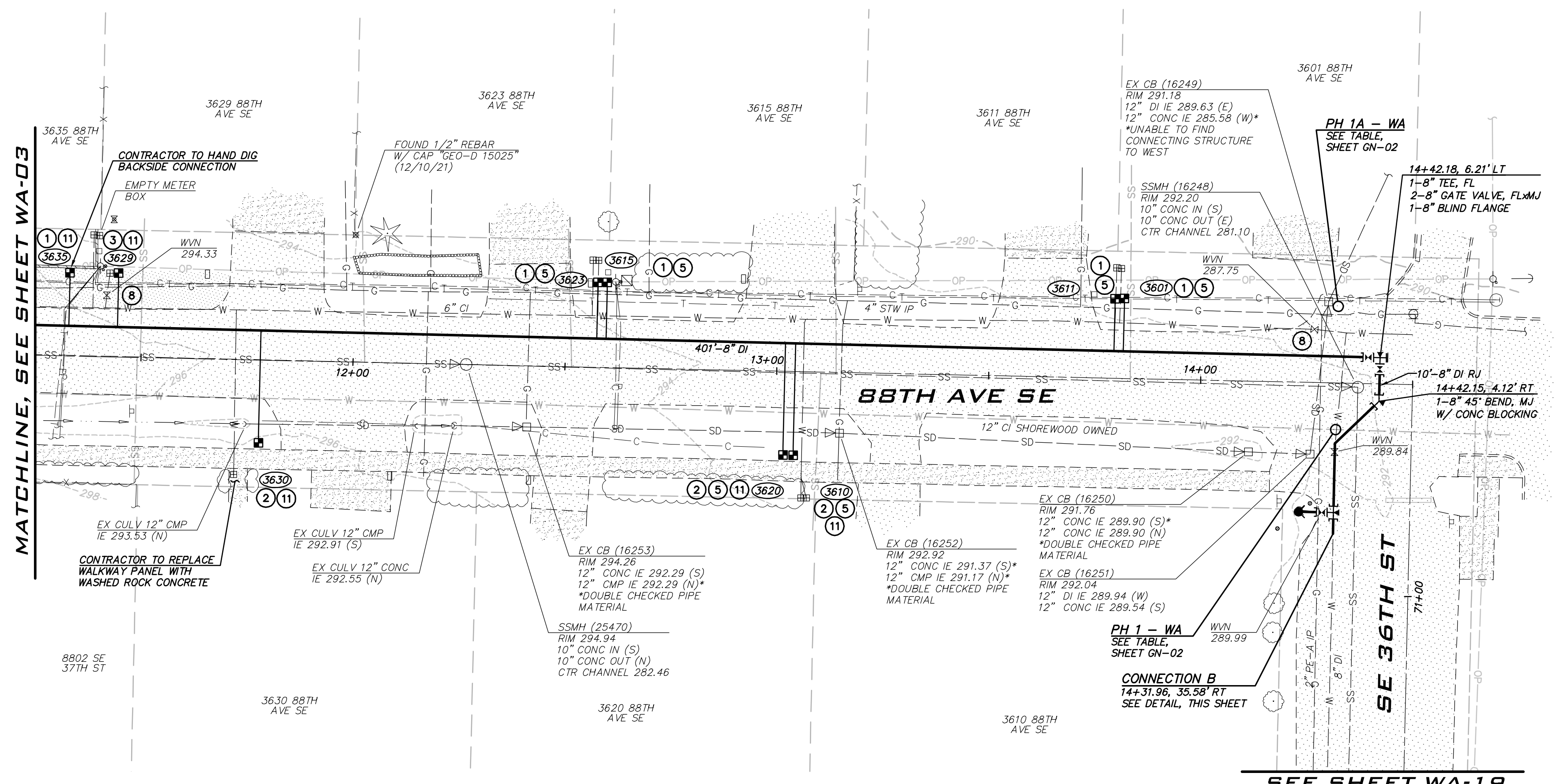
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NO	DATE	BY	REVISIONS

WATER PLAN - 88TH AVE SE
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER: 21-303
 SHEET NAME: WA-03
 SHT 25 OF 59

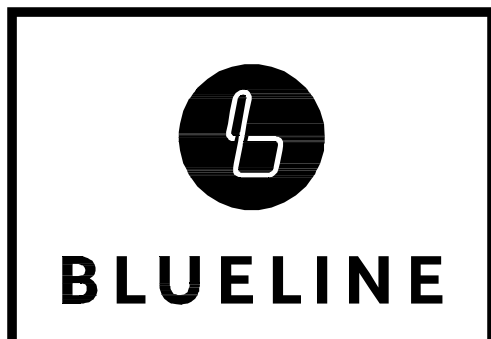


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 11. REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
 12. INTERCEPT EXISTING 1.5" SHORT SIDE SERVICE. CUT EXISTING SERVICE LINE AT NEW MAIN. CONNECT TO NEW MAIN PER STD DETAIL W-14.
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25 CENTRAL WAY, SUITE 400,
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WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

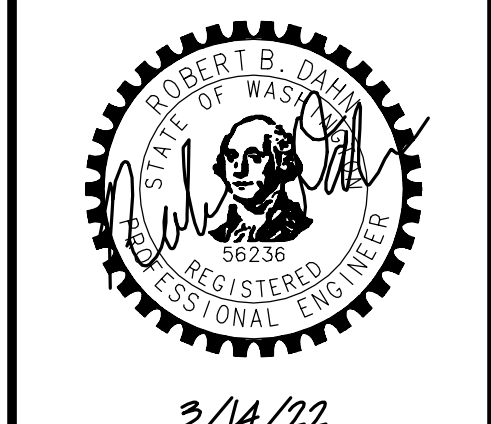
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

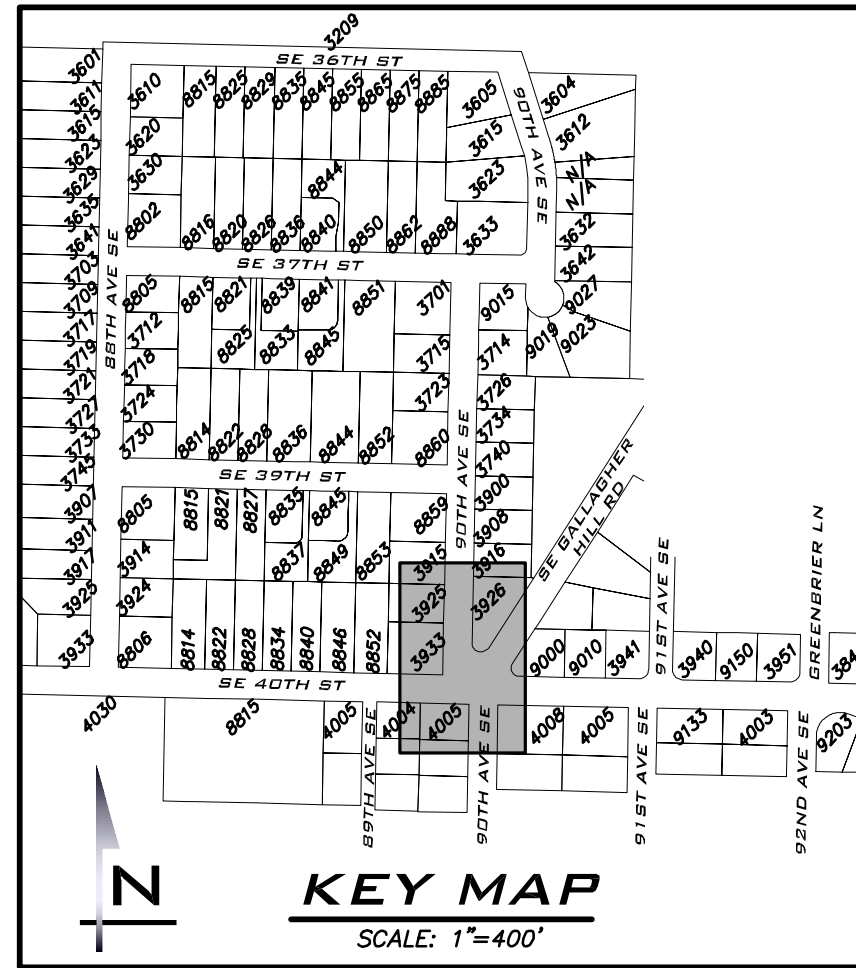
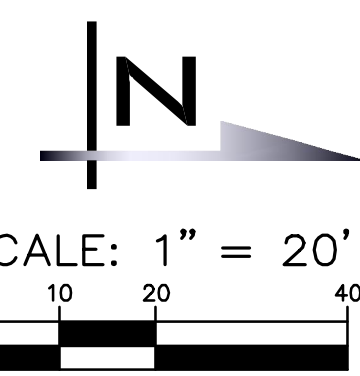
ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS

WATER PLAN - 88TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



3/14/22
JOB NUMBER:
21-303
SHEET NAME:
WA-04
SHT 26 OF 59



BLUELINE

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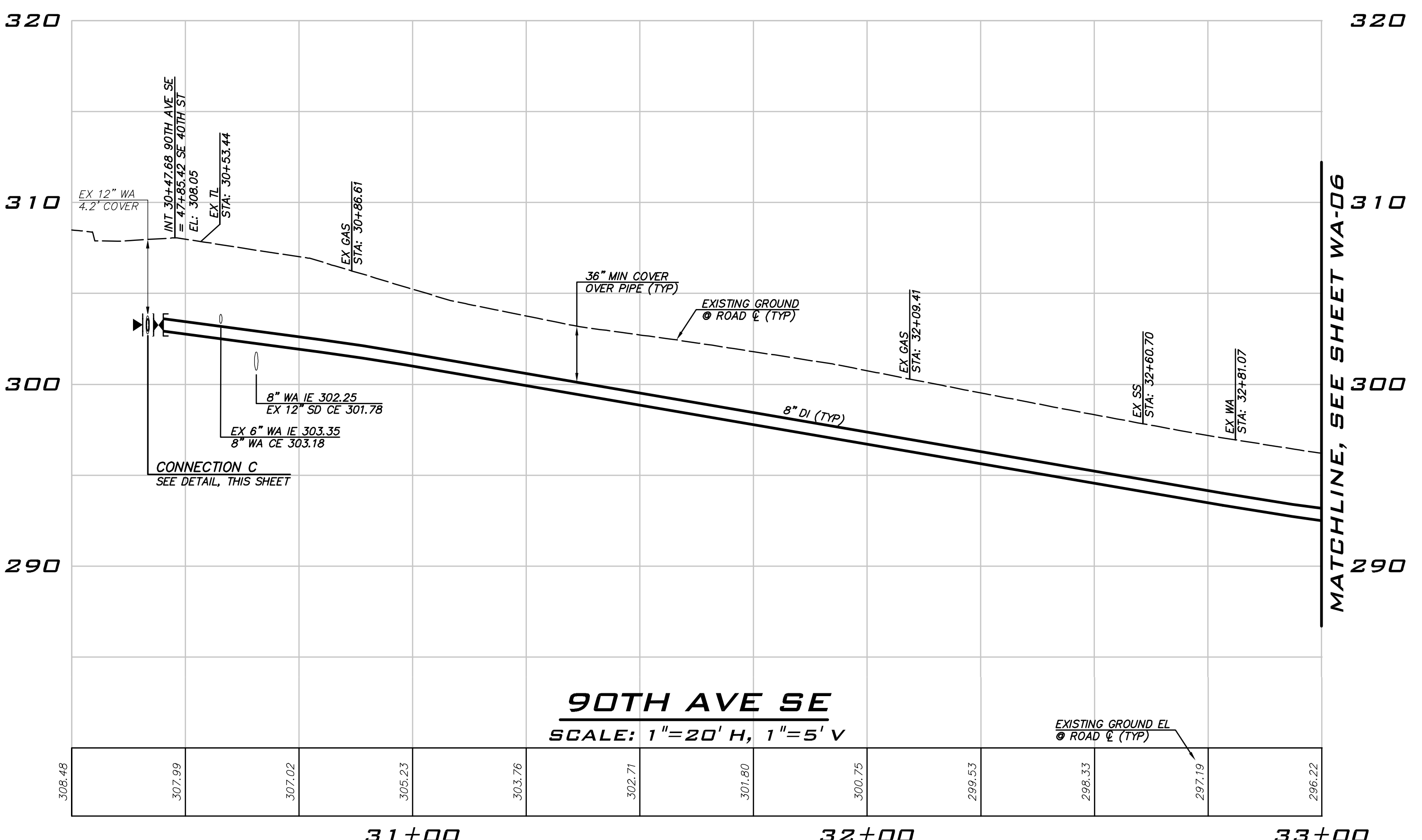
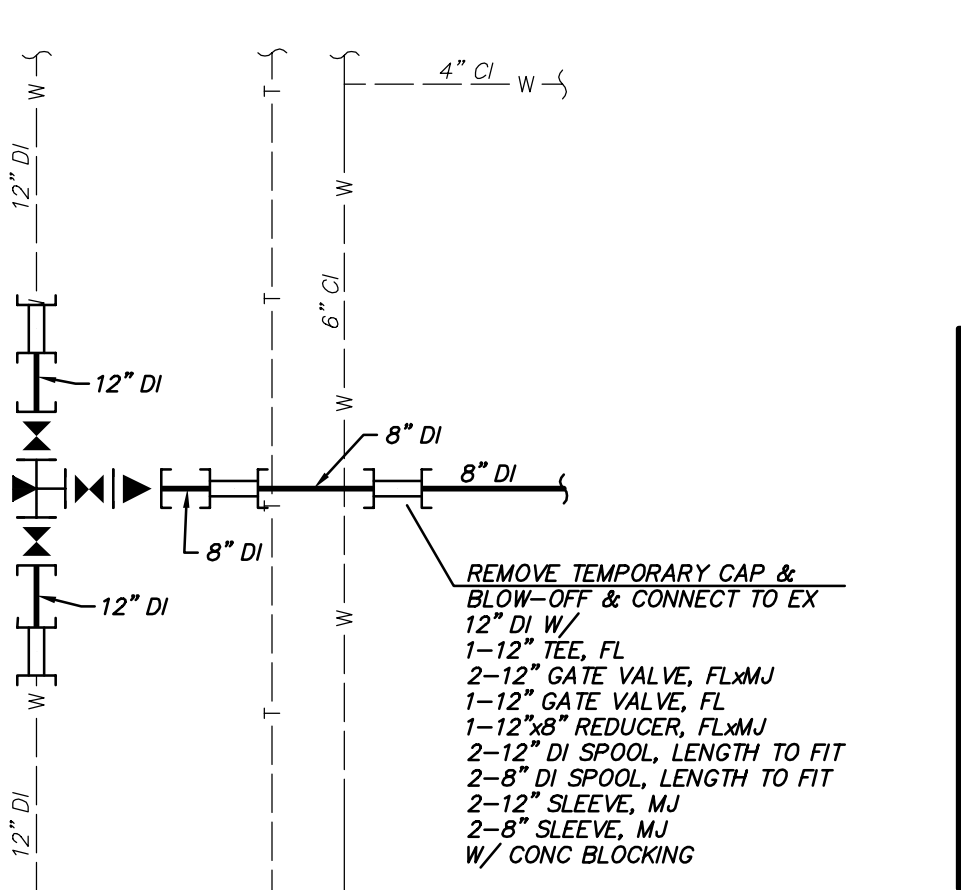
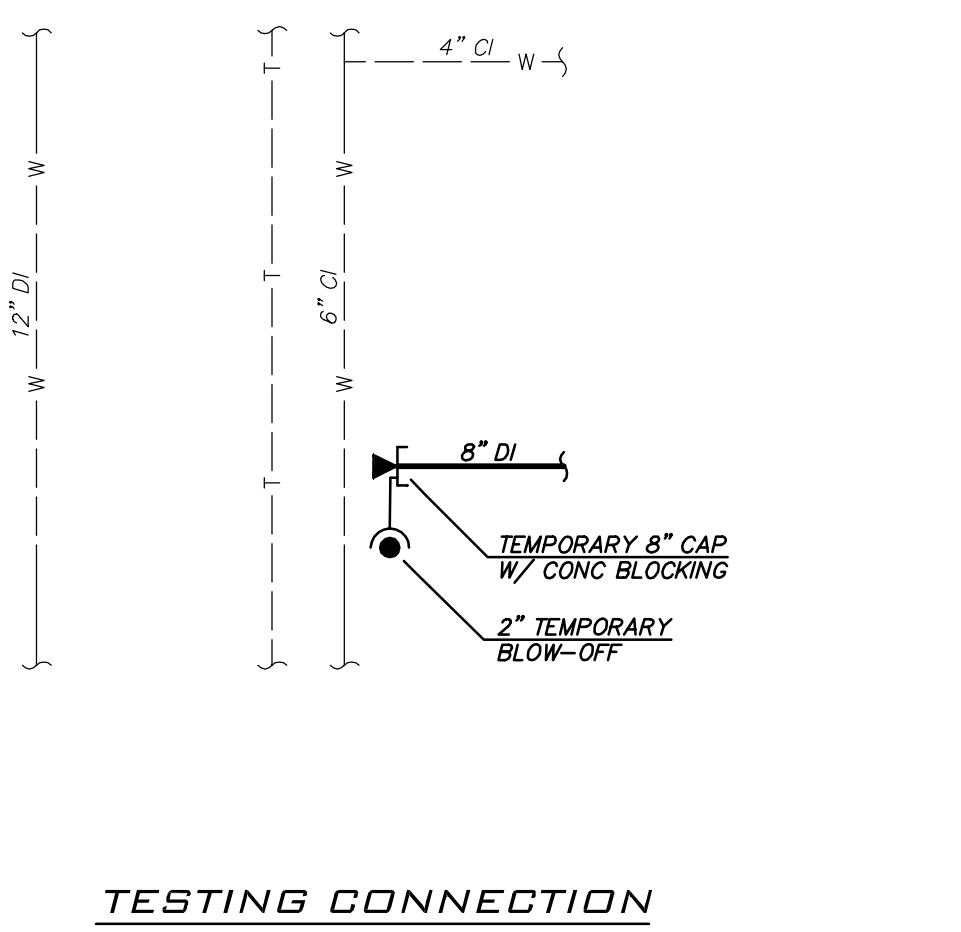
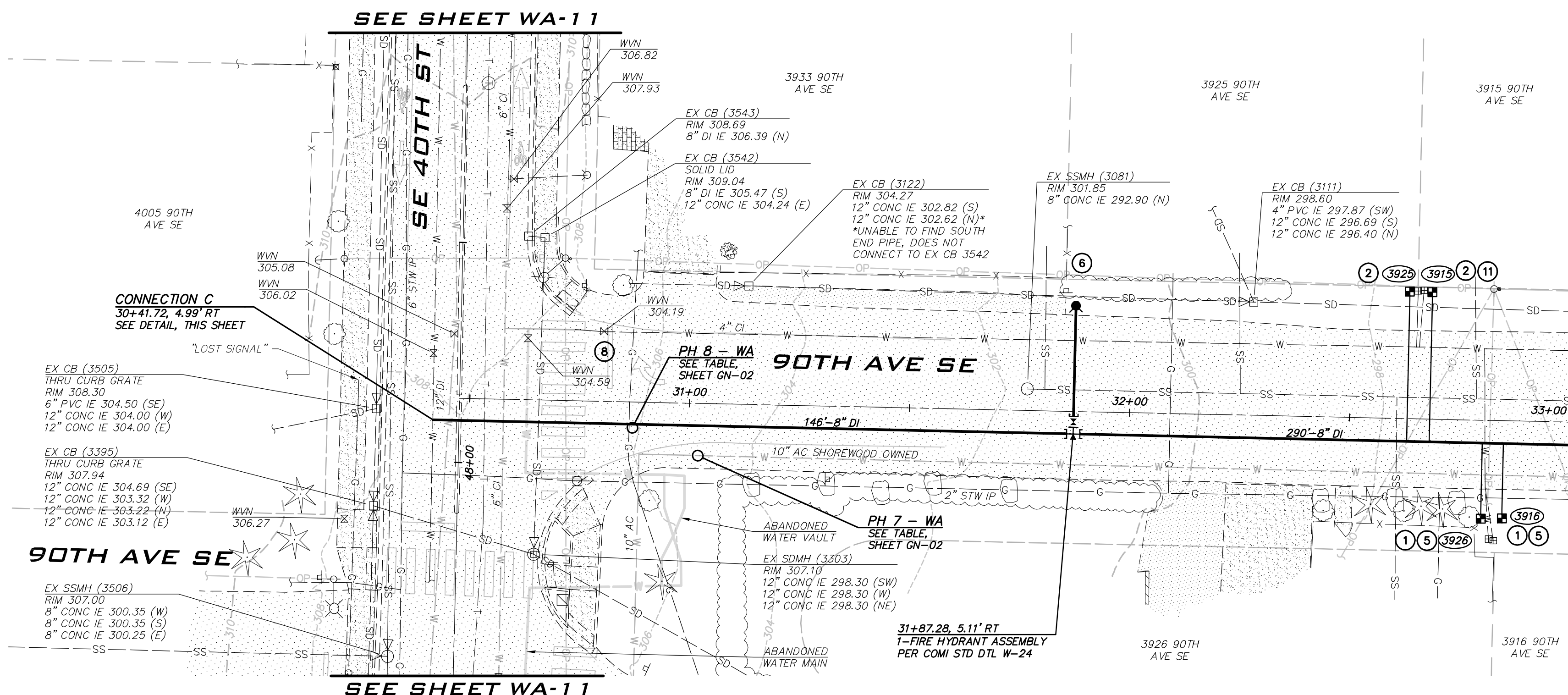
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ISSUE DATE:
3/14/2022



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REVISIONS

NO	DATE	BY

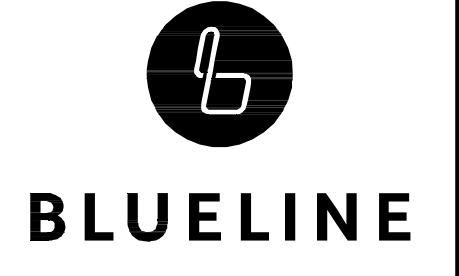
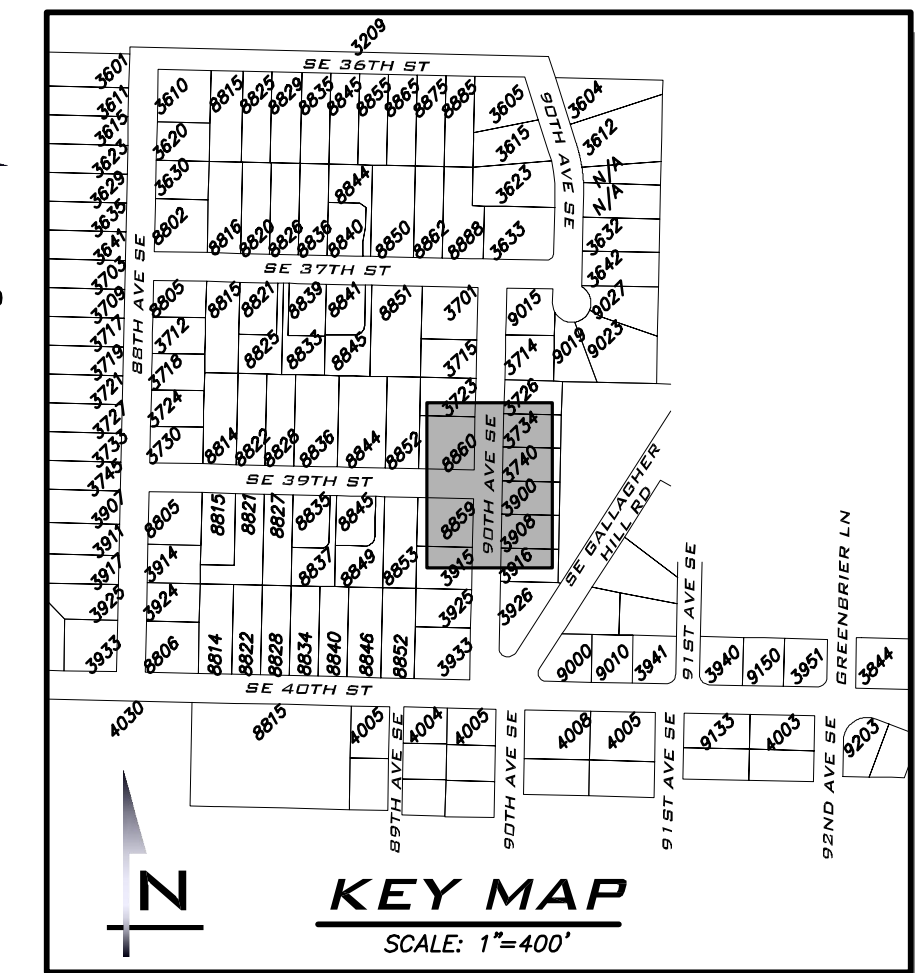
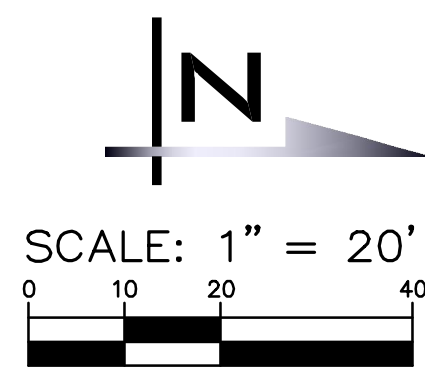
WATER PLAN - 90TH AVE SE
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

3/14/22

JOB NUMBER:
21-303

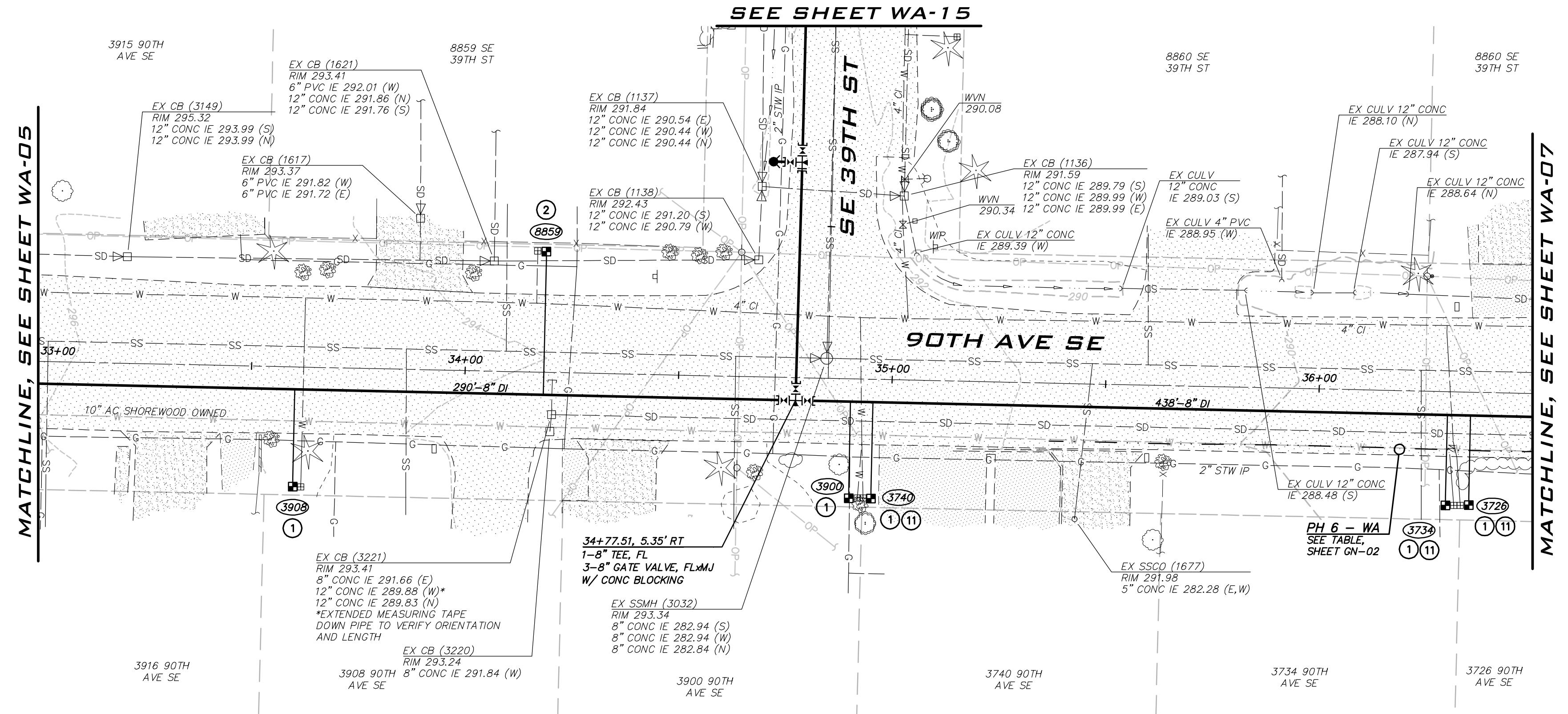
SHEET NAME:
WA-05

SHT 27 OF 59



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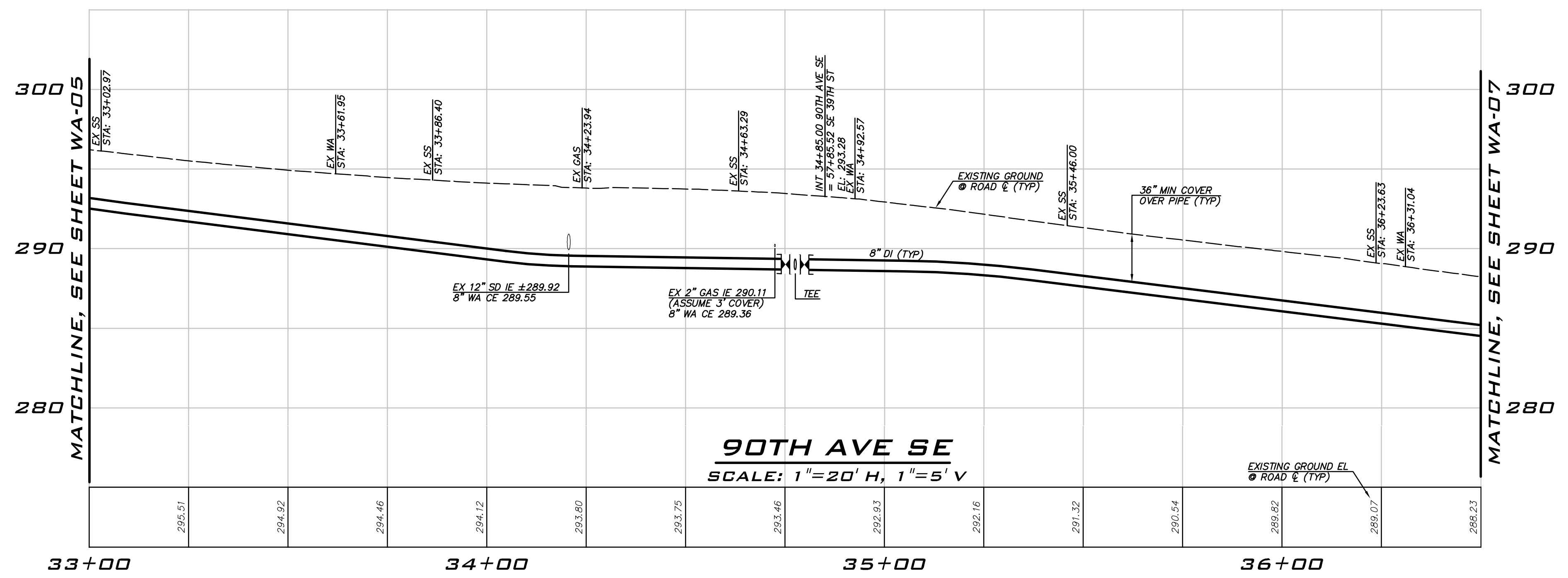
SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
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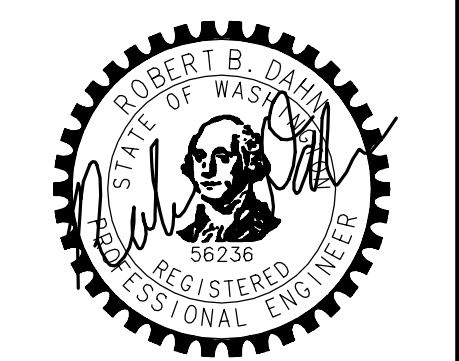
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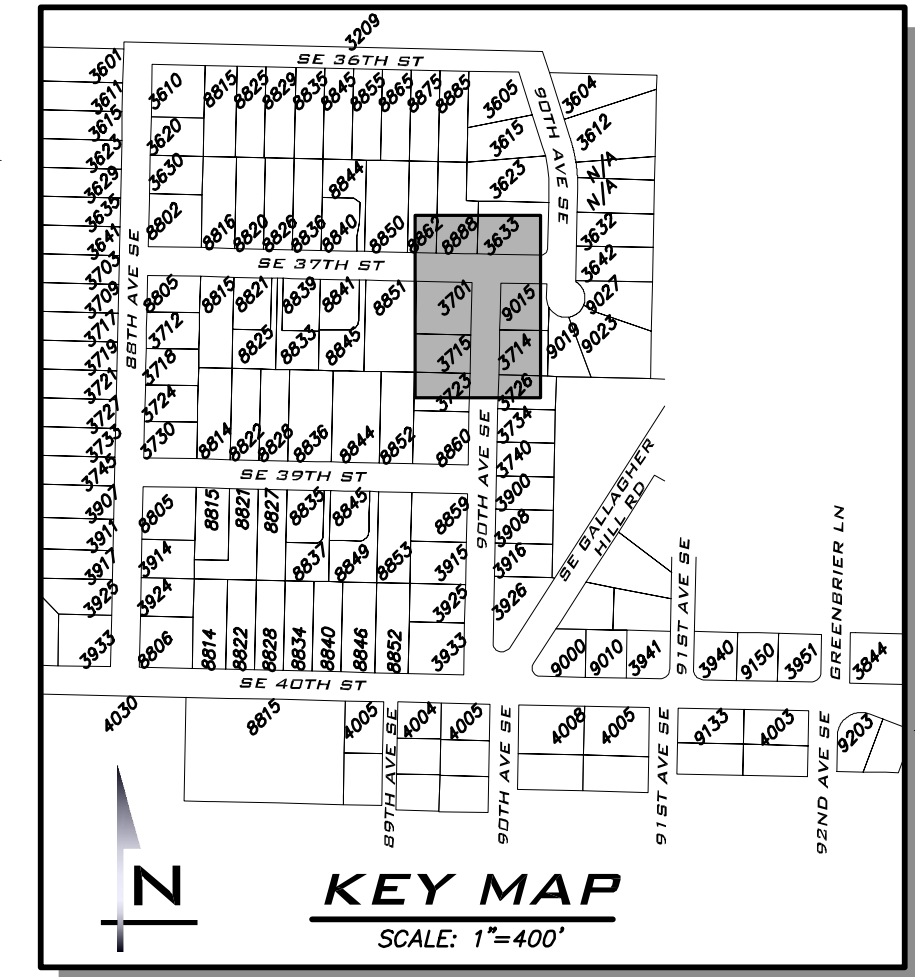
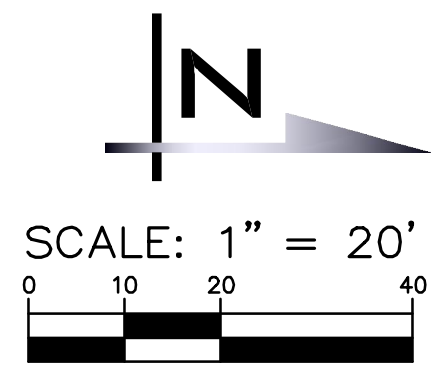


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WATER PLAN - 90TH AVE SE
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



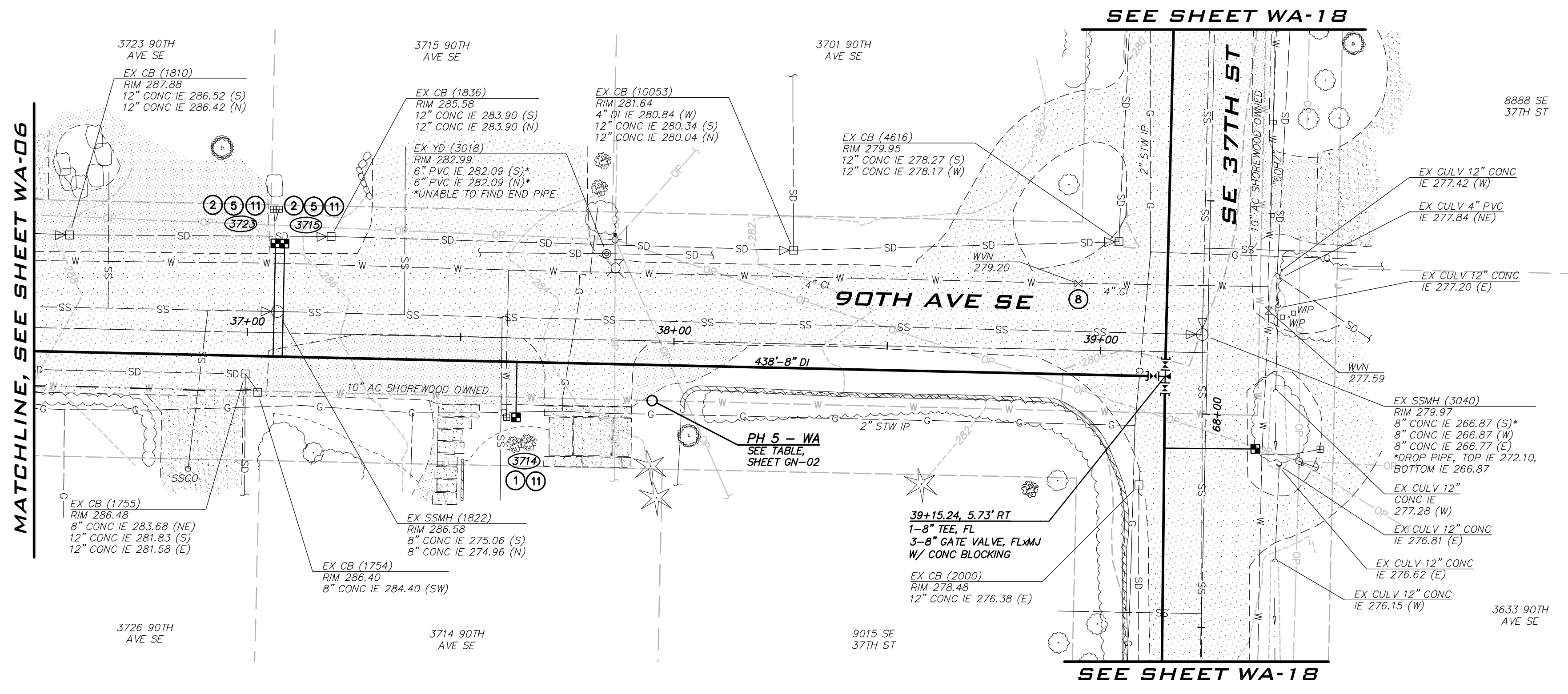
3/14/22
JOB NUMBER:
21-303
SHEET NAME:
WA-06
SHT **28** OF **59**



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
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SCALE:
 AS NOTED
 PROJECT MANAGER:
ROB DAHN, PE
 PROJECT ENGINEER:
GRACE GARWIN, EIT
 DESIGNER:
CAROL DOGGETT
 ISSUE DATE:
3/14/2022

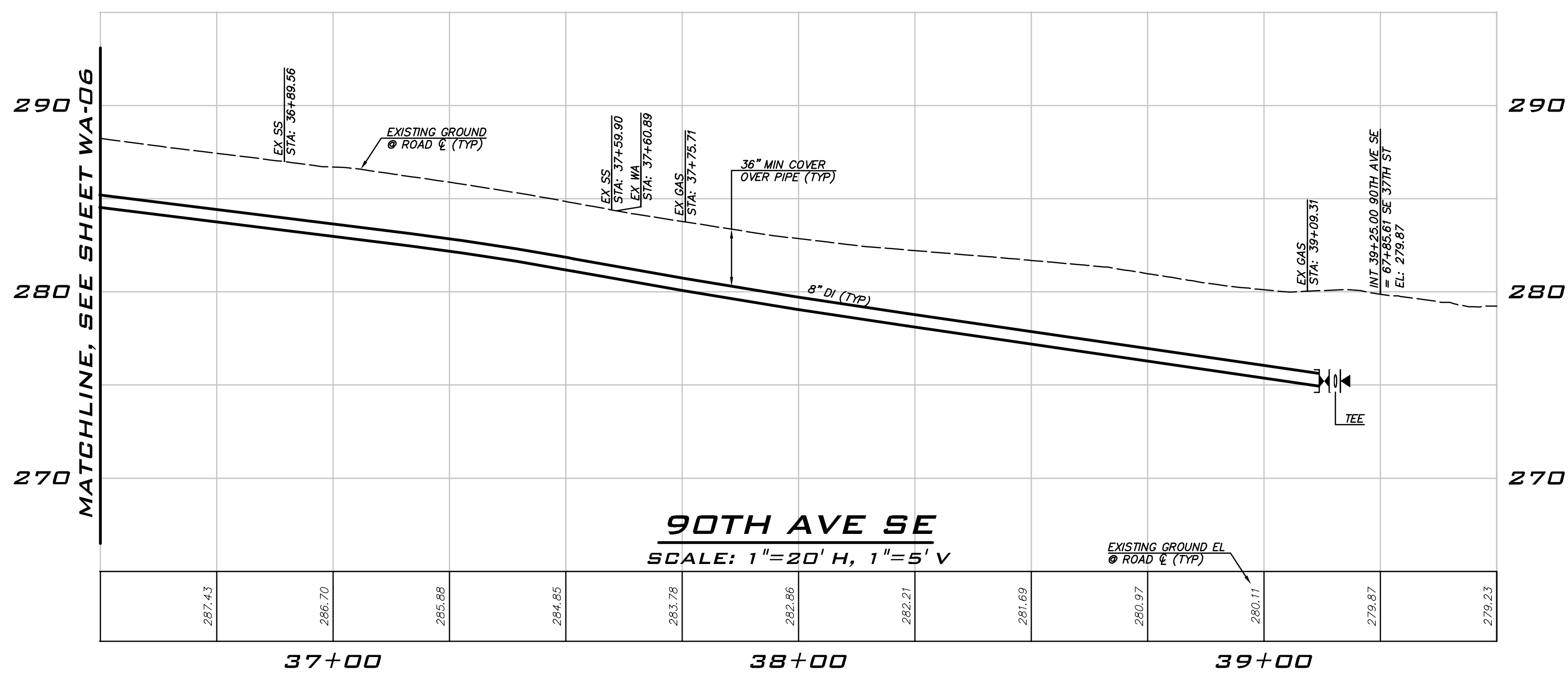
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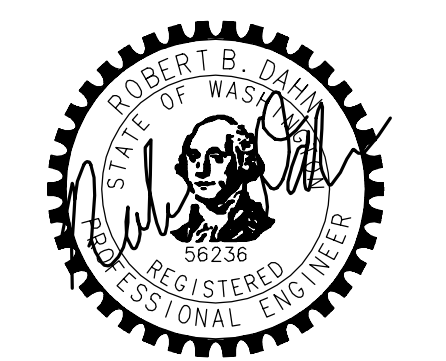
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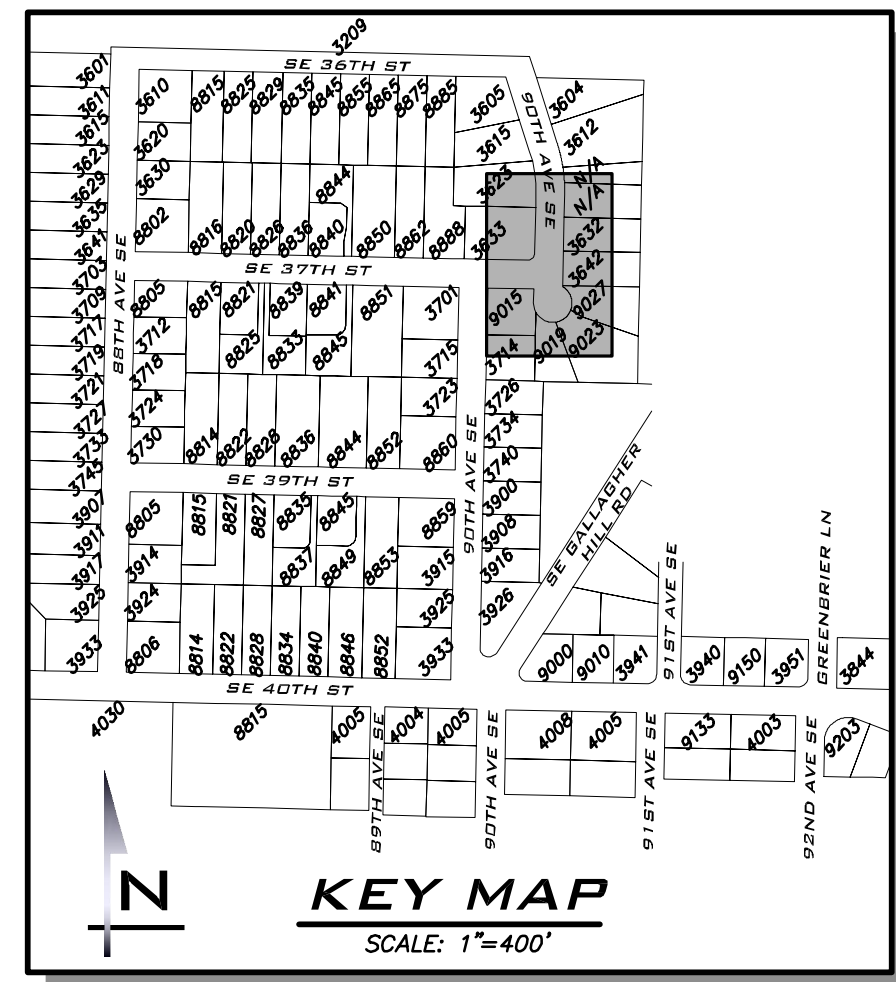
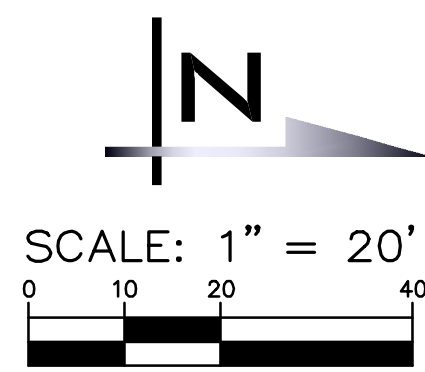
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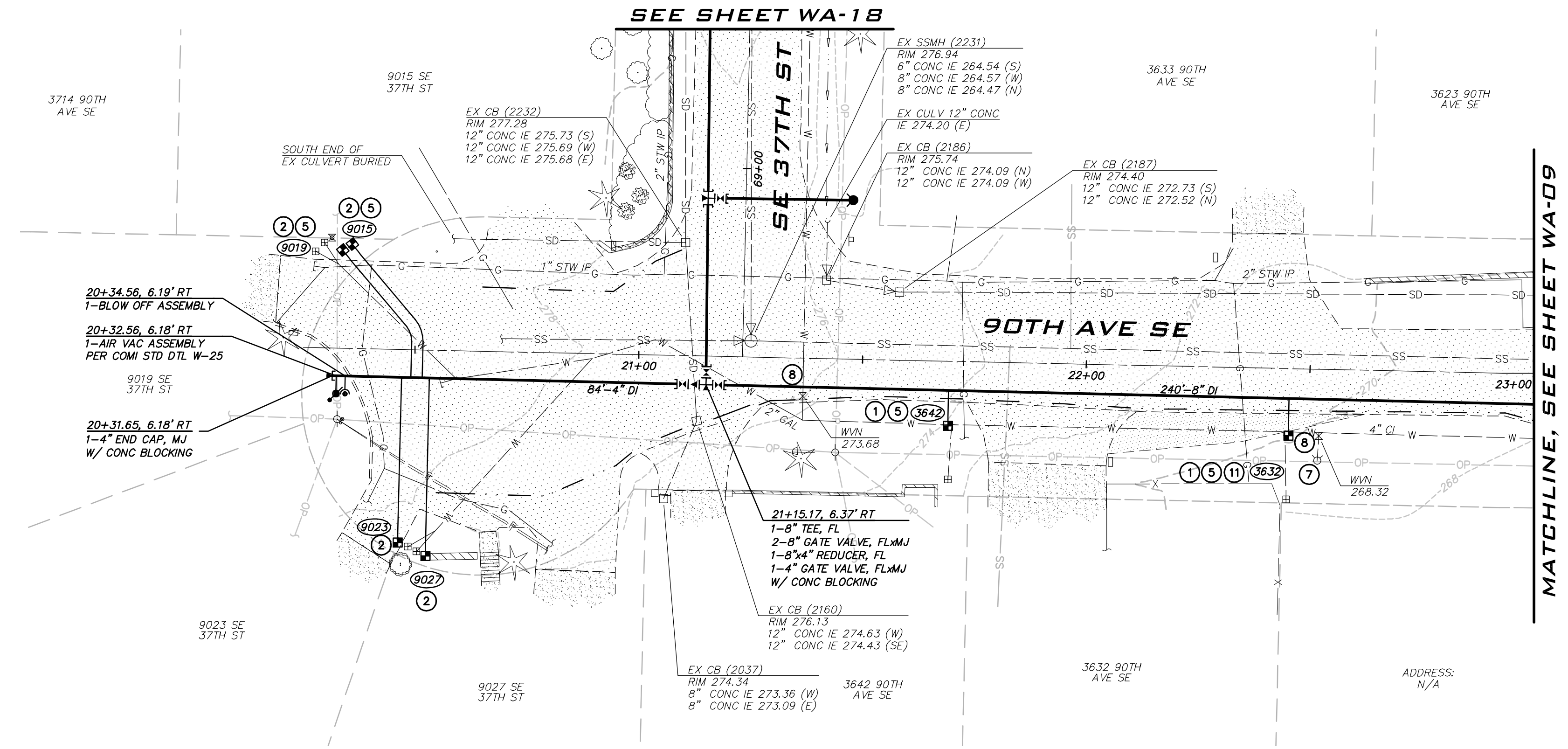
WATER PLAN - 90TH AVE SE
2022 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
WA-07
 SHT **29** OF **59**



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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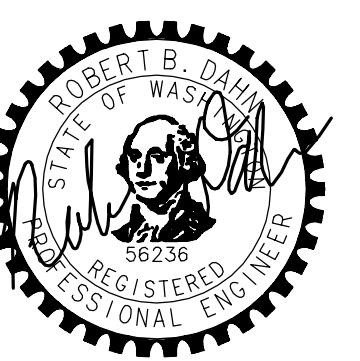
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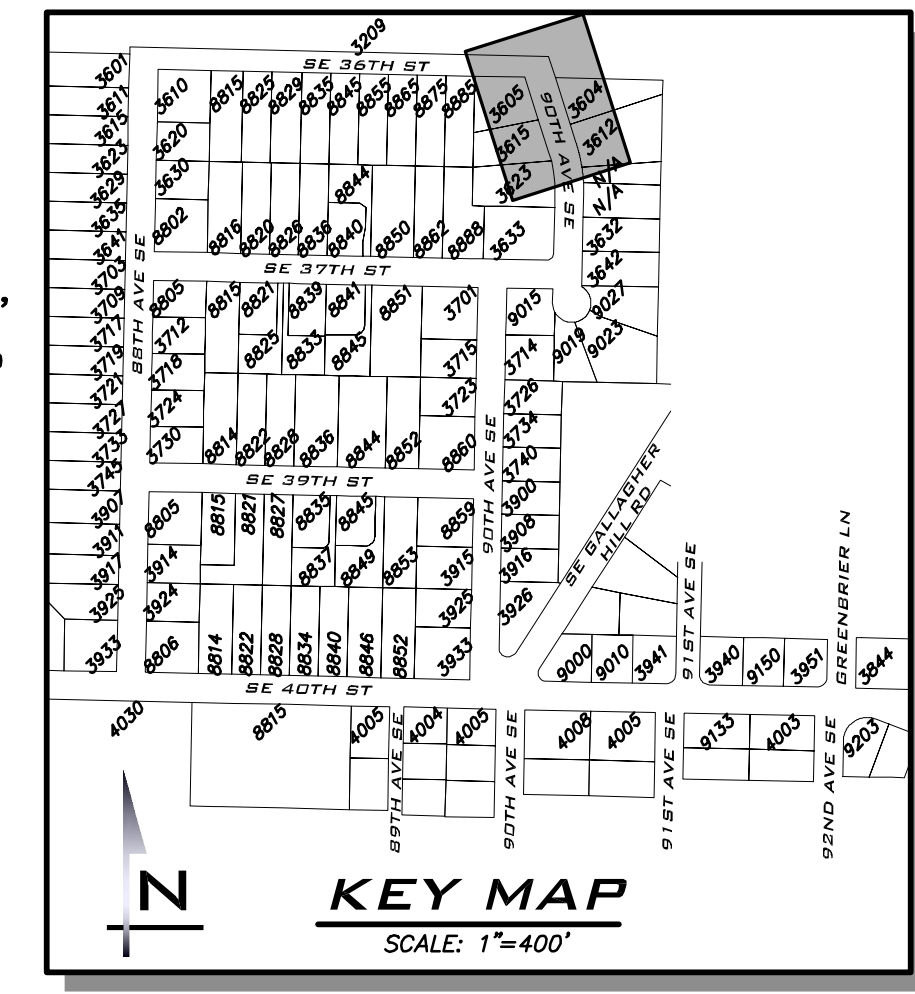
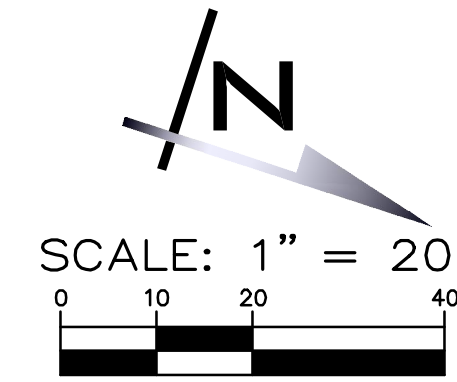
NO	DATE	BY	REVISIONS

WATER PLAN - 90TH AVE SE
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER: **21-303**
 SHEET NAME: **WA-08**

SEE SHEET WA-20



BLUELINE
 25 CENTRAL WAY, SUITE 400,
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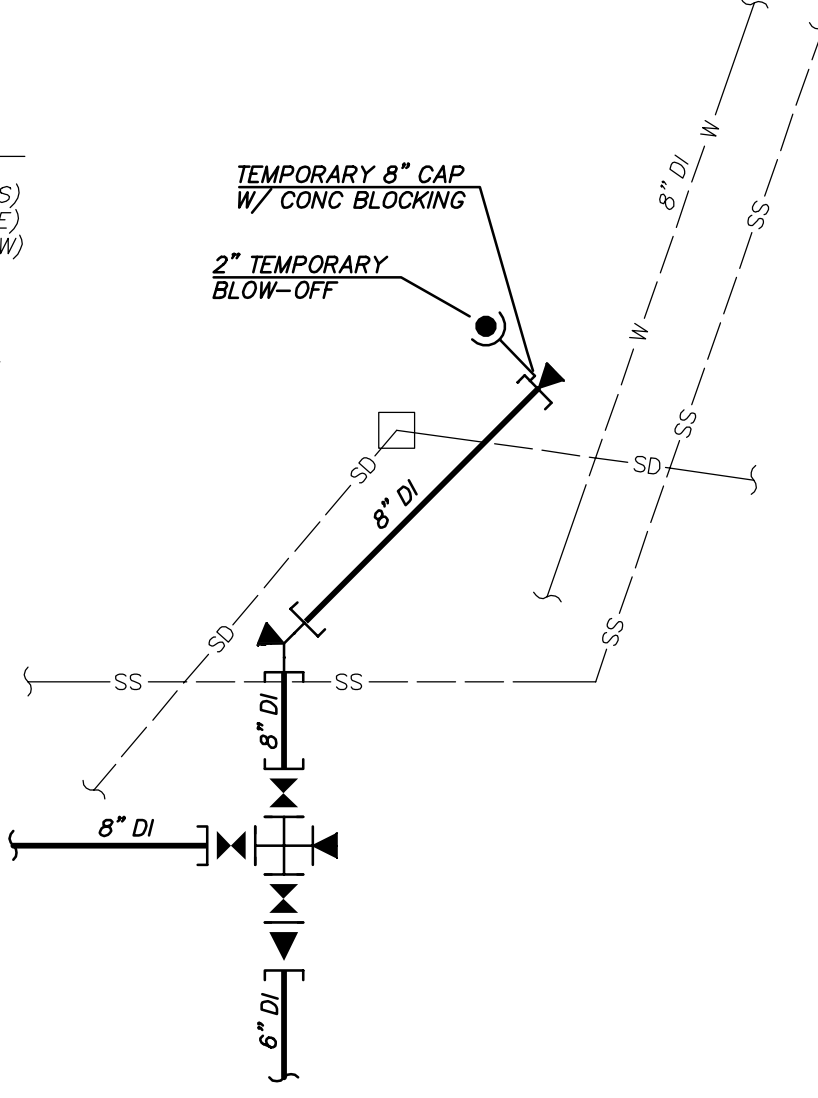
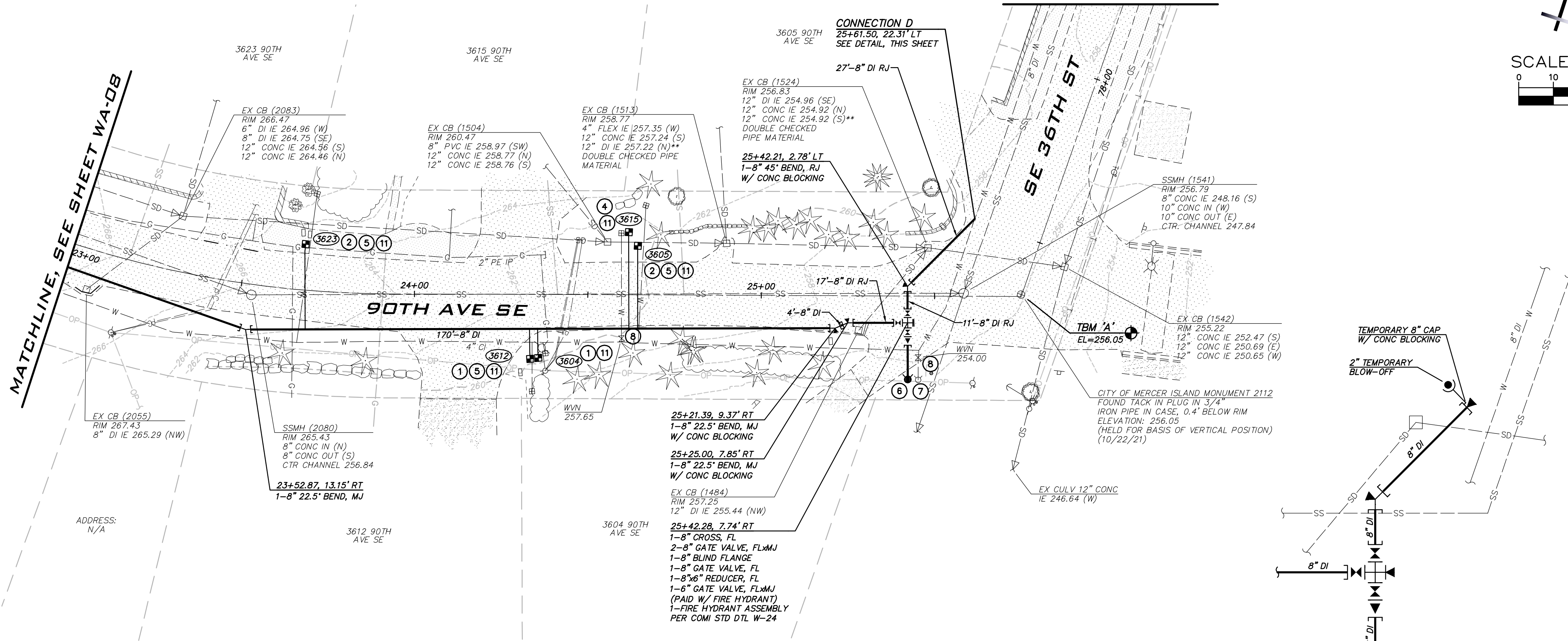
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 GRACE GARWIN, EIT

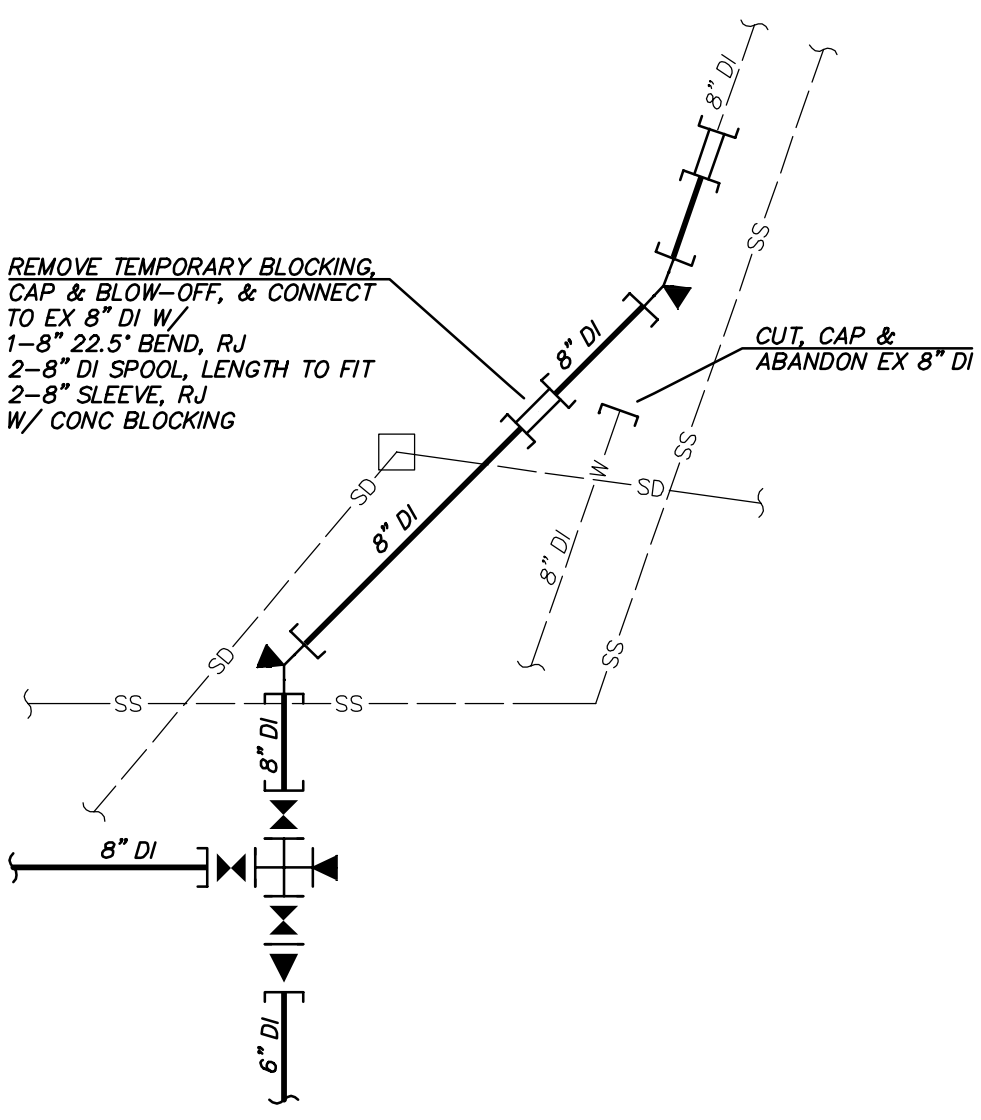
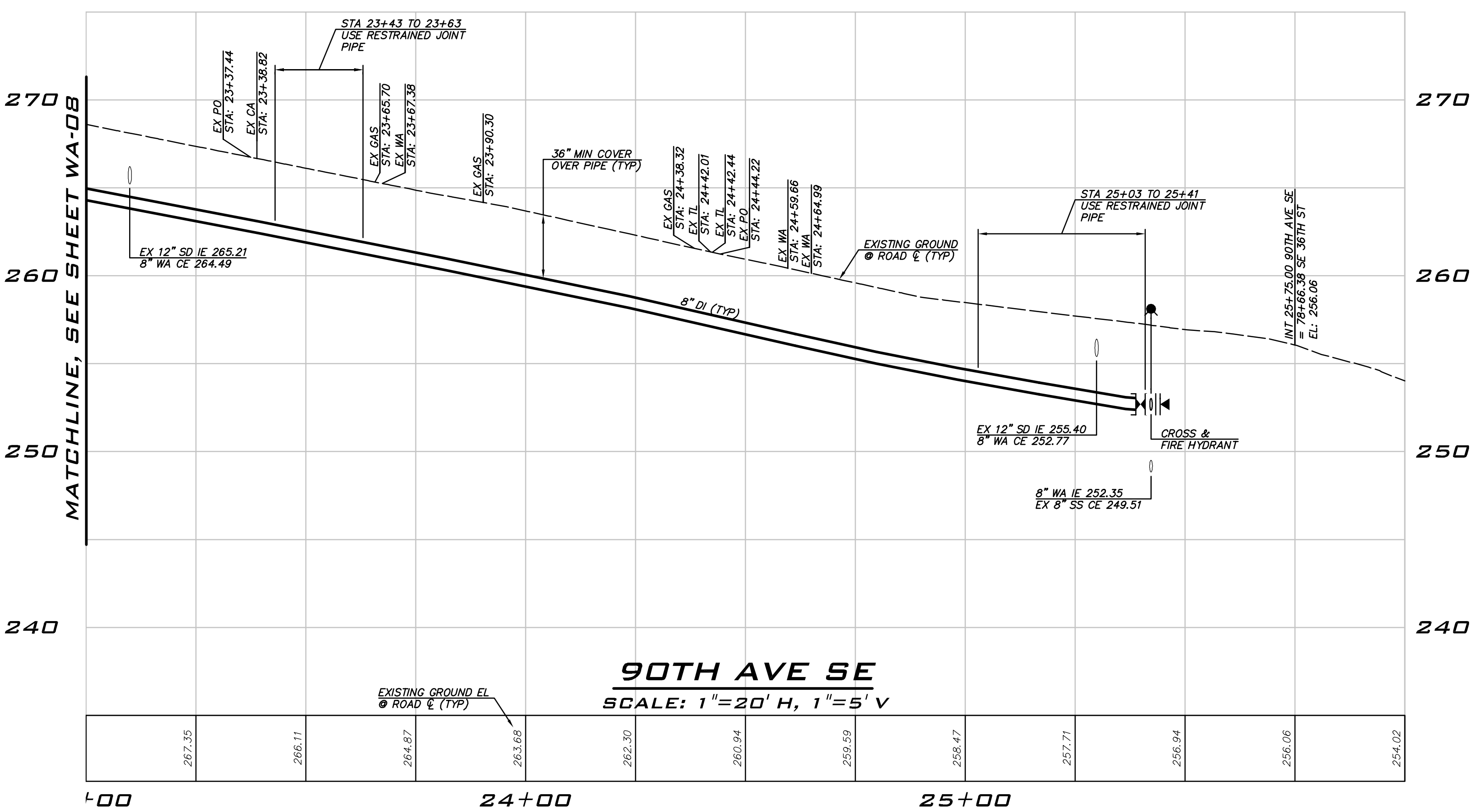
DESIGNER:
 CAROL DOGGETT

ISSUE DATE:
 3/14/2022



TESTING CONNECTION

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



FINAL CONNECTION
 CONNECTION D
 NOT TO SCALE

- NOTES**
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
 - INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
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NO	DATE	BY	REVISIONS

WATER PLAN - 90TH AVE SE
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

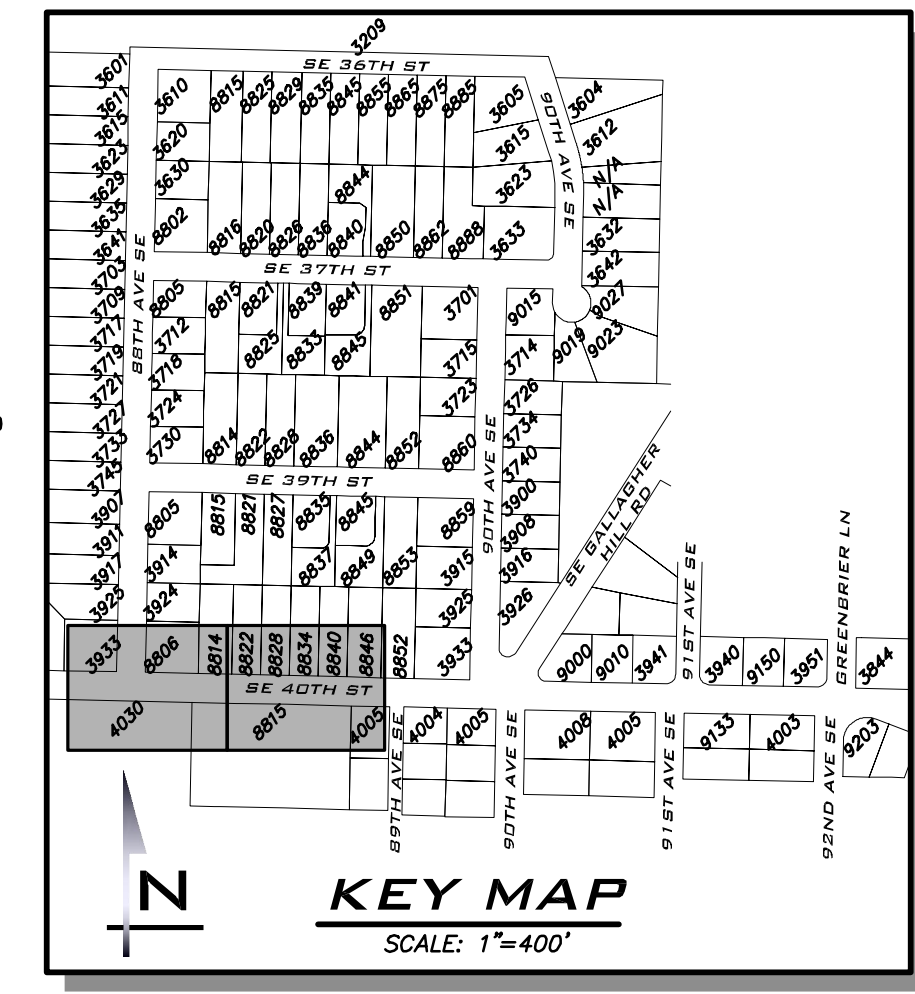
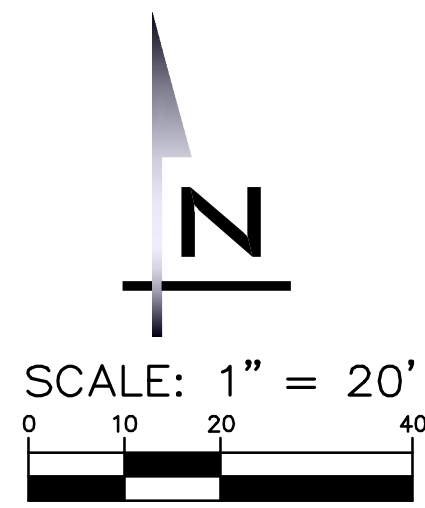
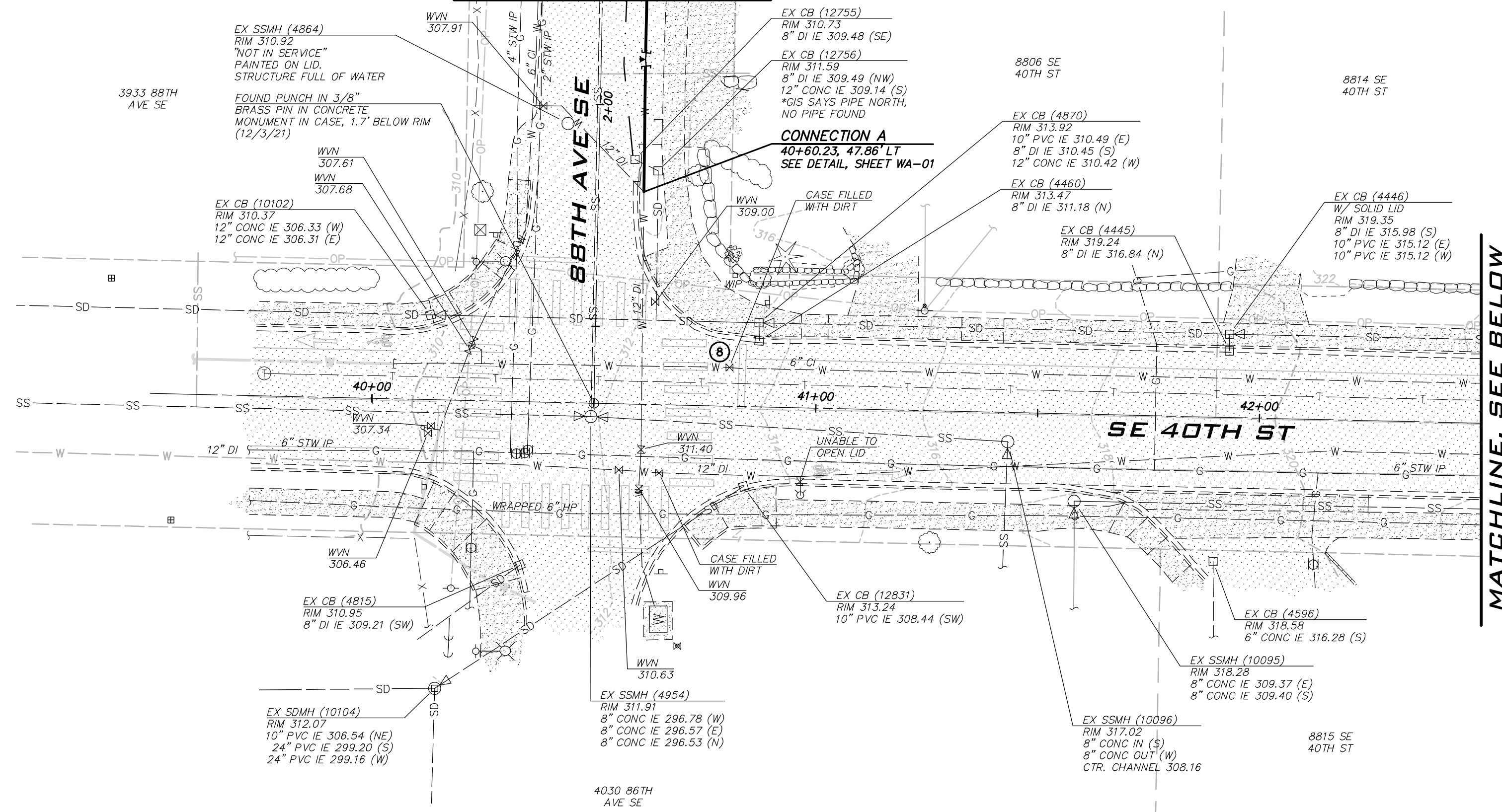
3/14/22

JOB NUMBER:
21-303

SHEET NAME:
WA-09

SHT **31** OF **59**

SEE SHEET WA-01



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

SCALE:
 AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

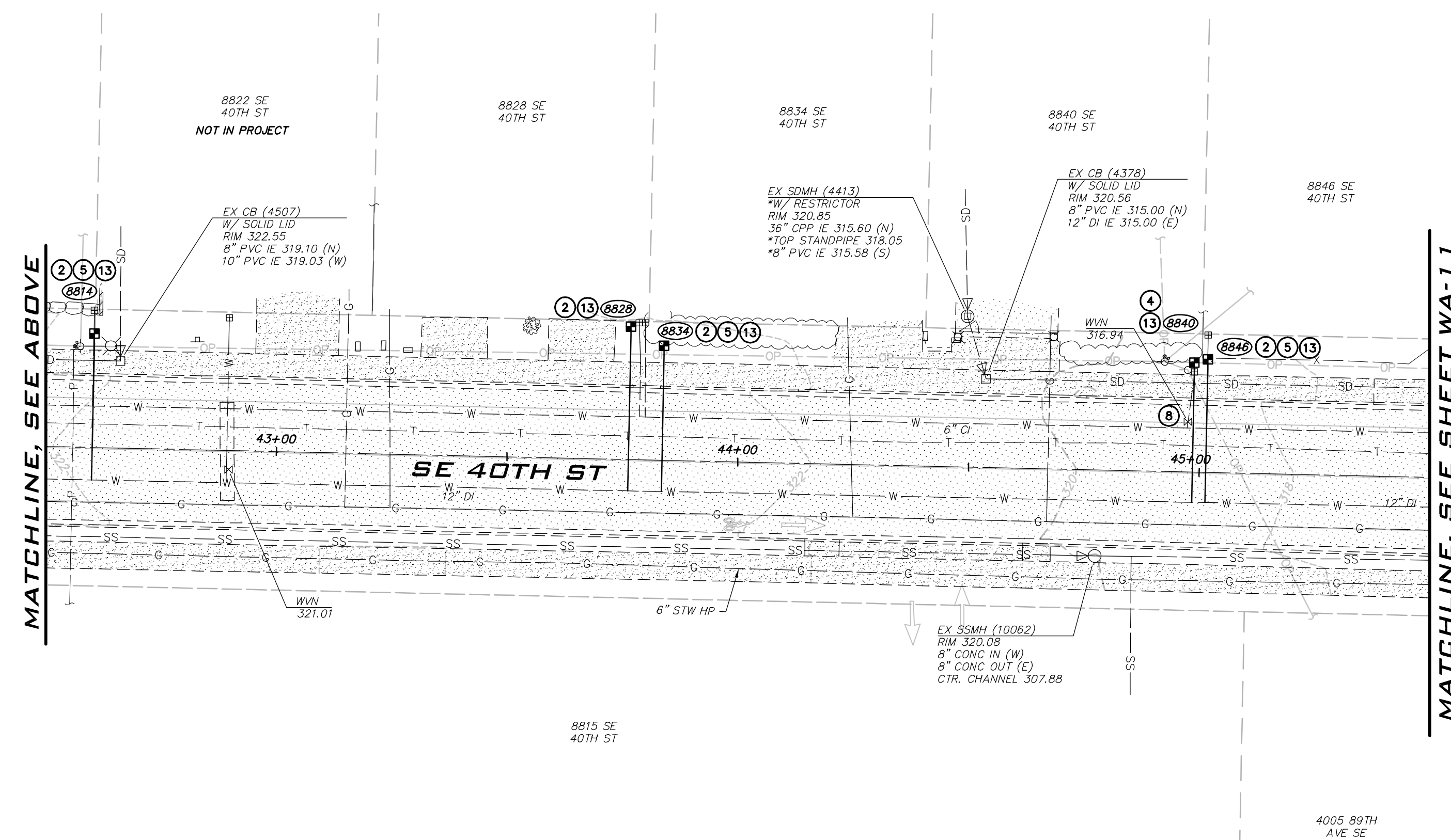
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS

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WATER PLAN - SE 40TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

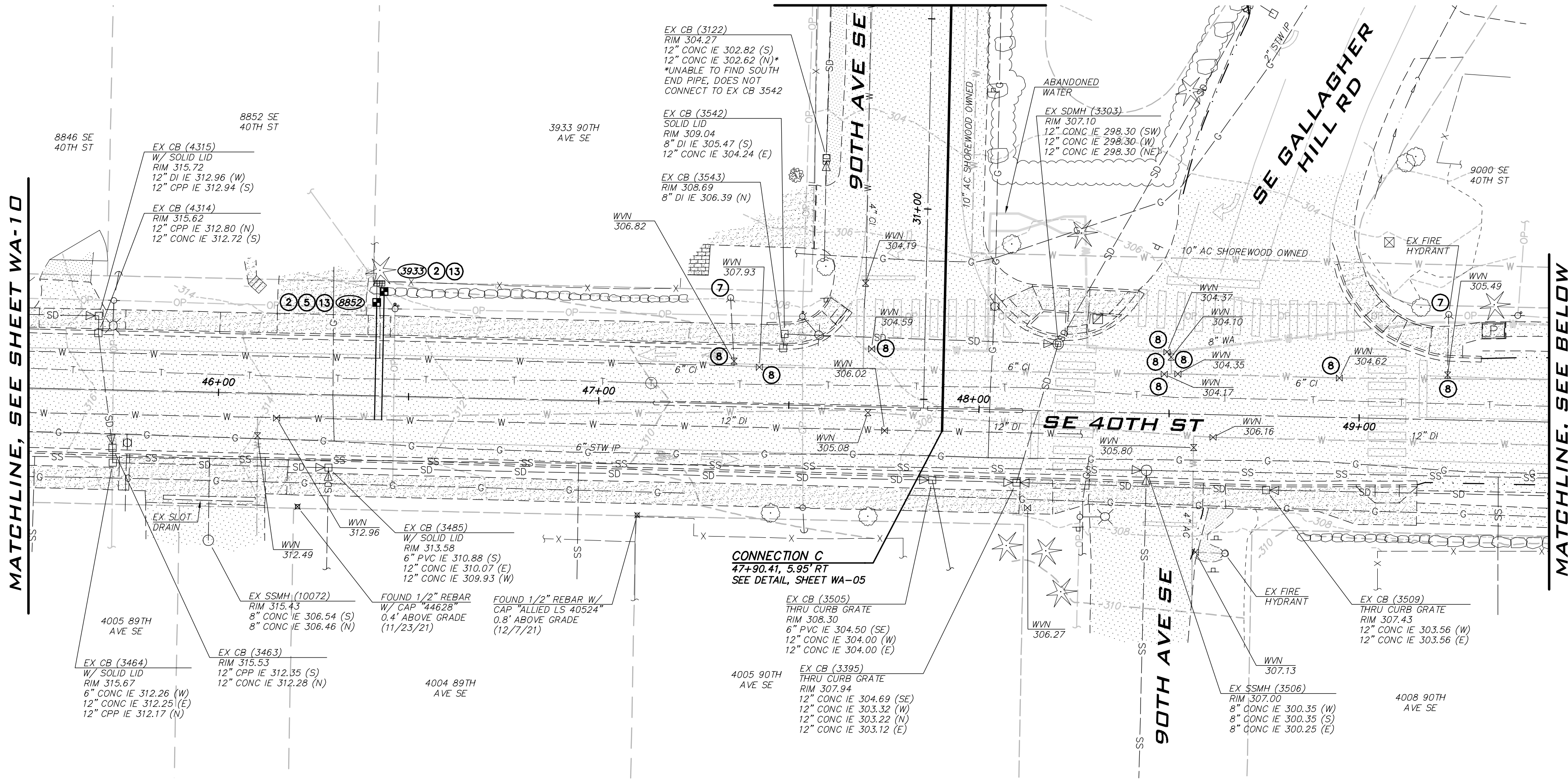
3/14/22

JOB NUMBER:
21-303

SHEET NAME:
WA-10

SHT **32** OF **59**

SEE SHEET WA-05

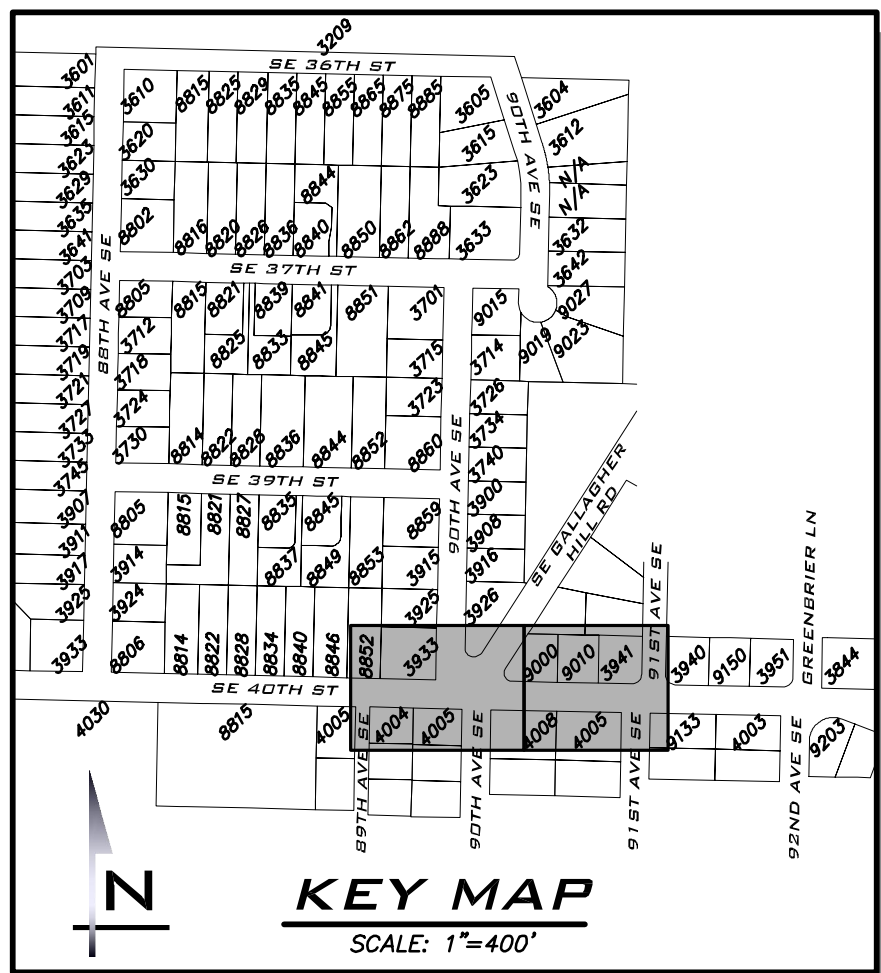
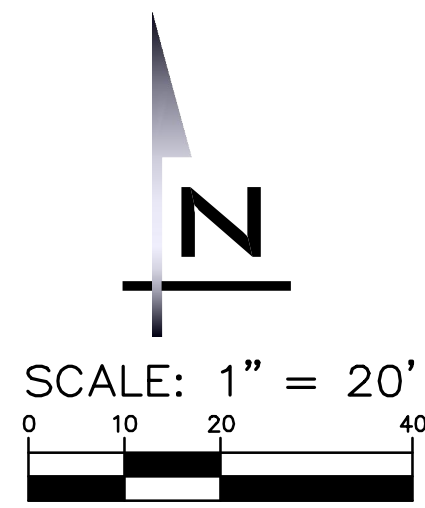


MATCHLINE, SEE SHEET WA-10

MATCHLINE, SEE BELOW

MATCHLINE, SEE ABOVE

MATCHLINE, SEE SHEET WA-12



BLUELINE

25 CENTRAL WAY, SUITE 400,
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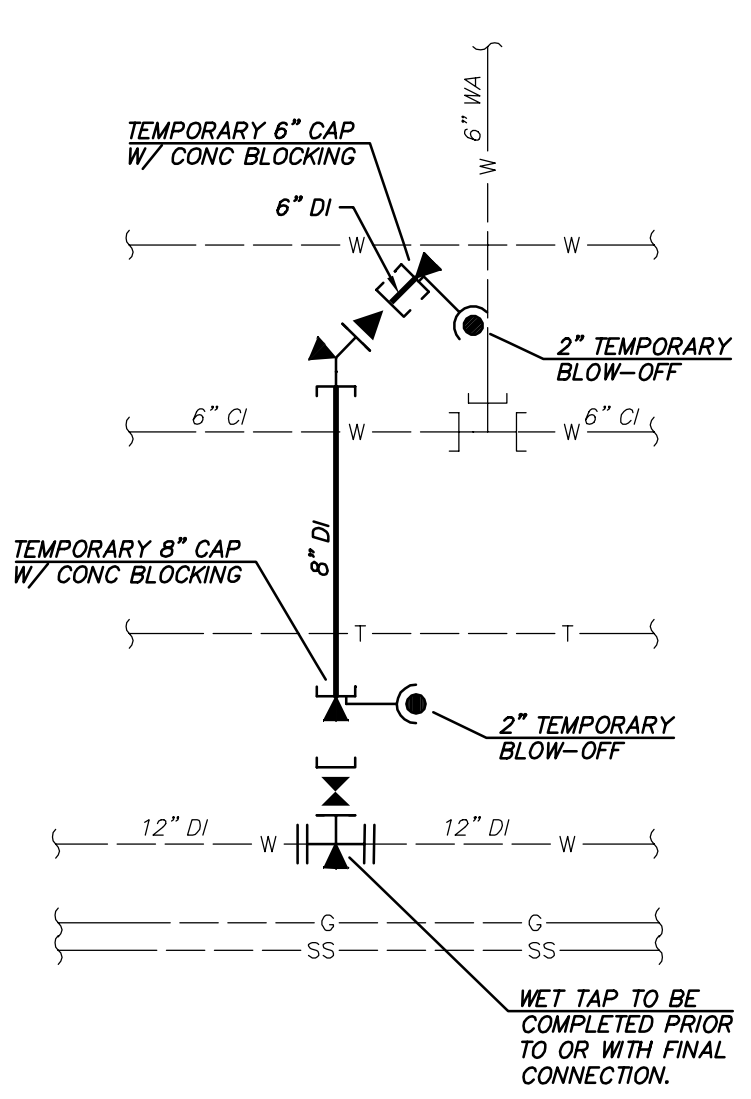
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

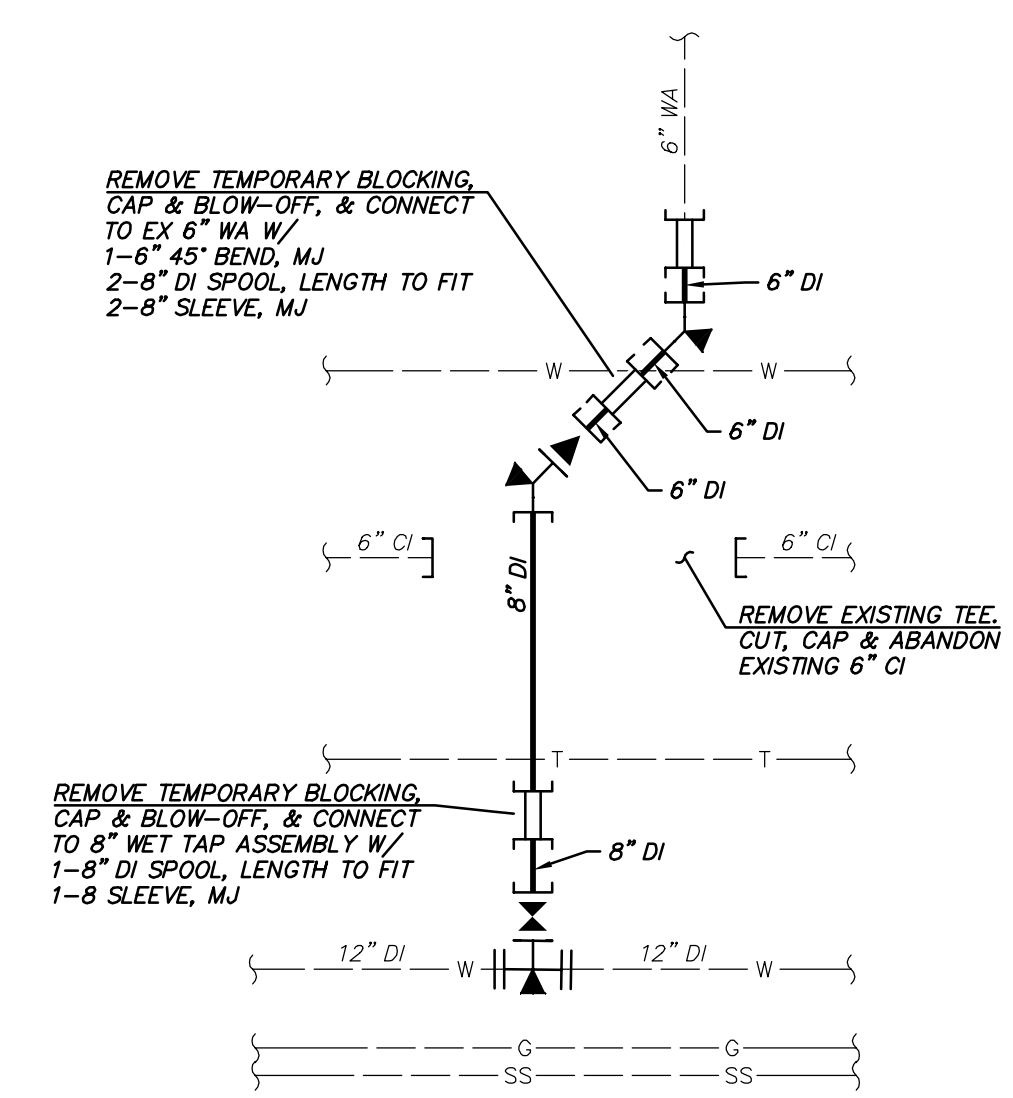
PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



TESTING CONNECTION



FINAL CONNECTIONS E & F

NOT TO SCALE

GATE VALVE SHOWN IN FINAL CONNECTION E DETAIL WILL BE PAID UNDER WET TAP CONNECTION E TO EXISTING WATER SYSTEM BID ITEM 33.

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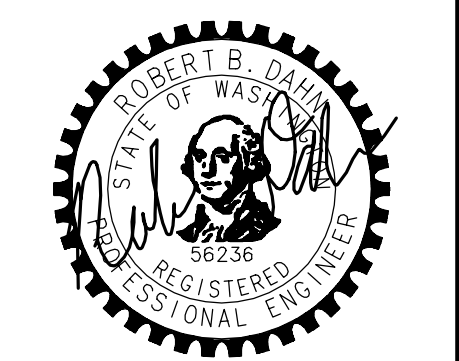
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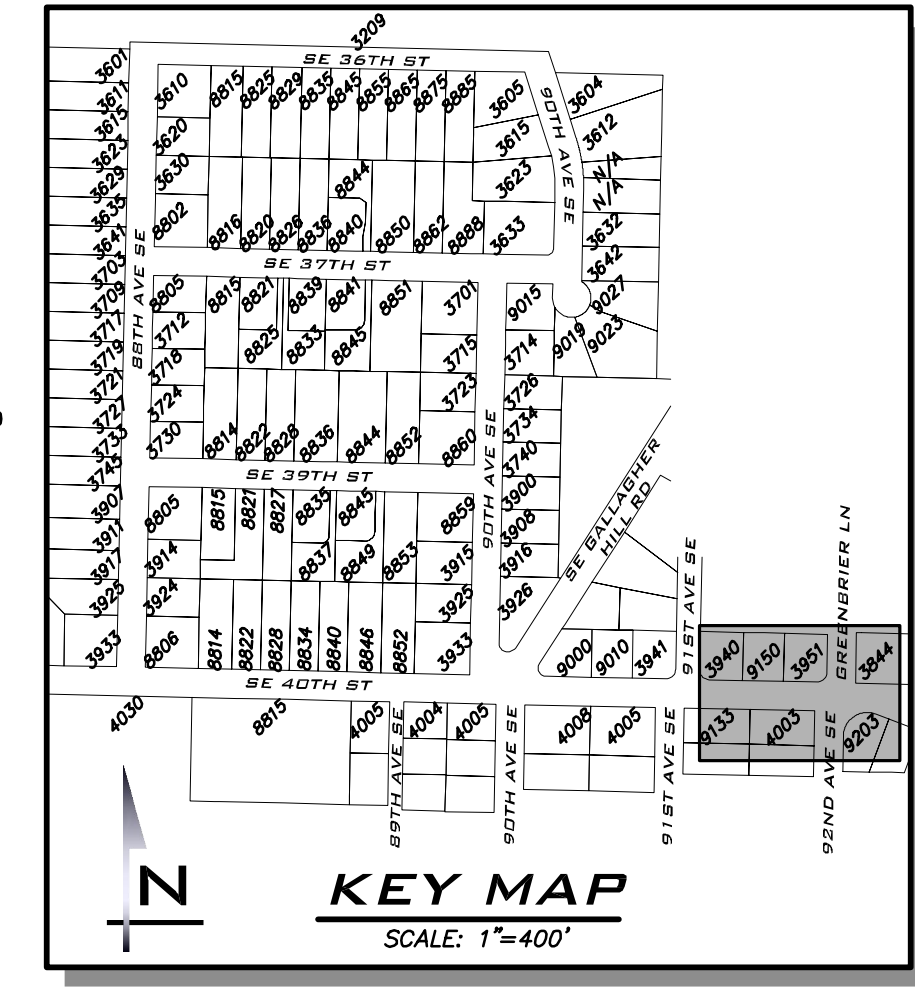
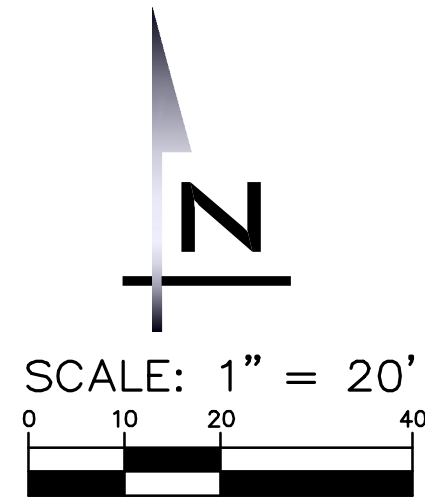
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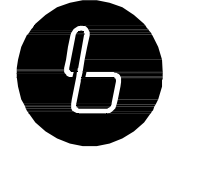
NO	DATE	BY	REVISIONS

WATER PLAN - SE 40TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
WA-11
 SHT **33** OF **59**





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

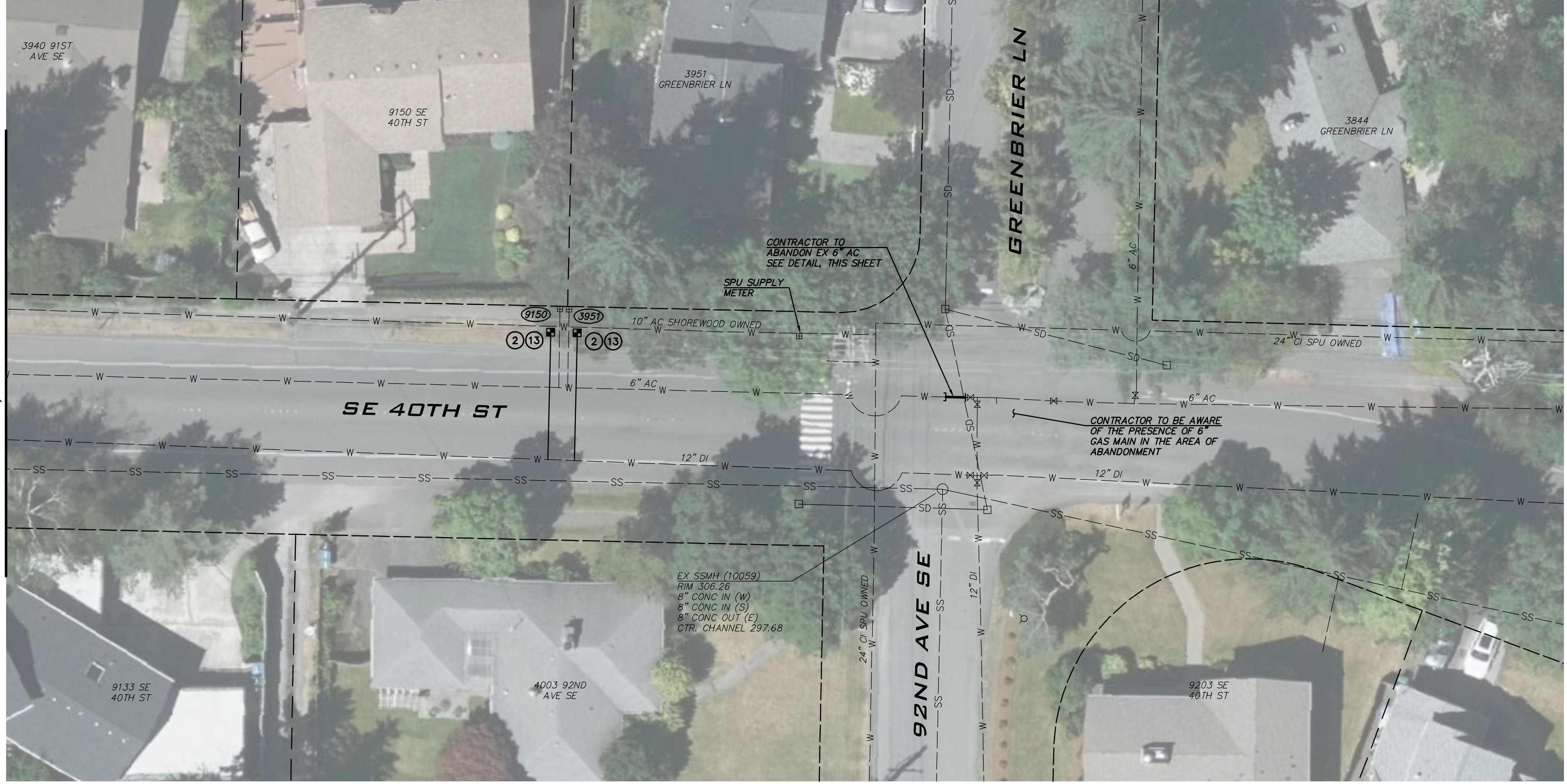
DESIGNER:
CAROL DOGGETT

ISSUE DATE:
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NO	DATE	BY	REVISIONS

WATER PLAN - SE 40TH ST
2022 WATER SYSTEM IMPROVEMENTS PROJECT
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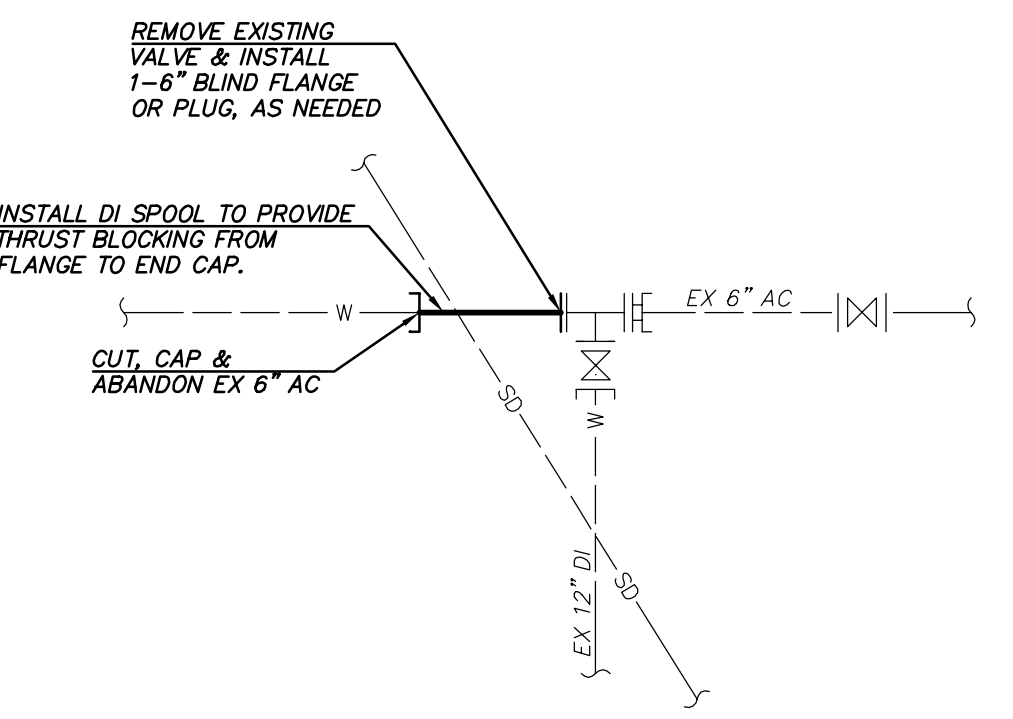
MATCHLINE, SEE SHEET WA-11



GIS NOTE
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ABANDONMENT DETAIL
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3/14/22

JOB NUMBER:
21-303

SHEET NAME:
WA-12

SHT **34** OF **59**



BLUeline

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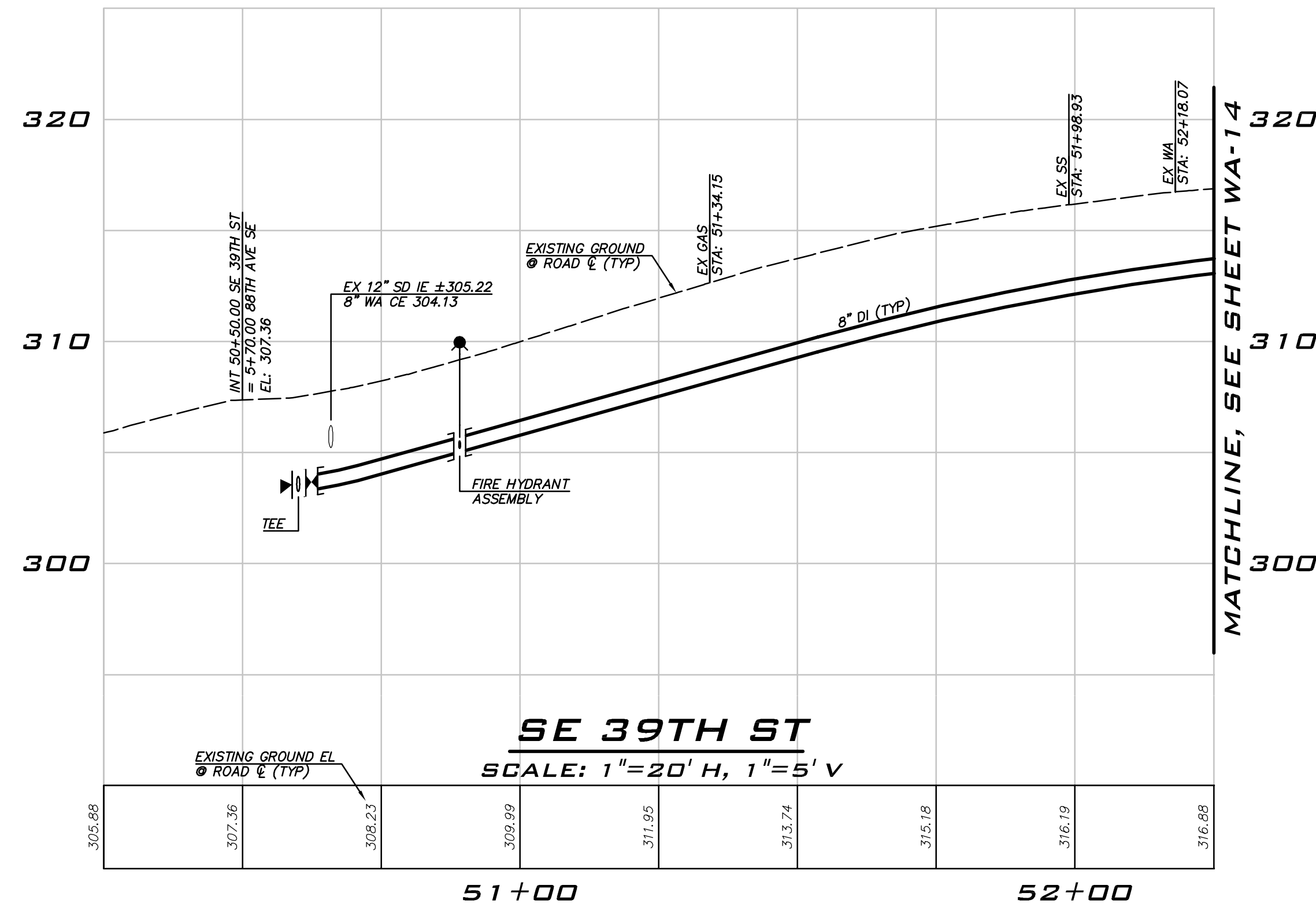
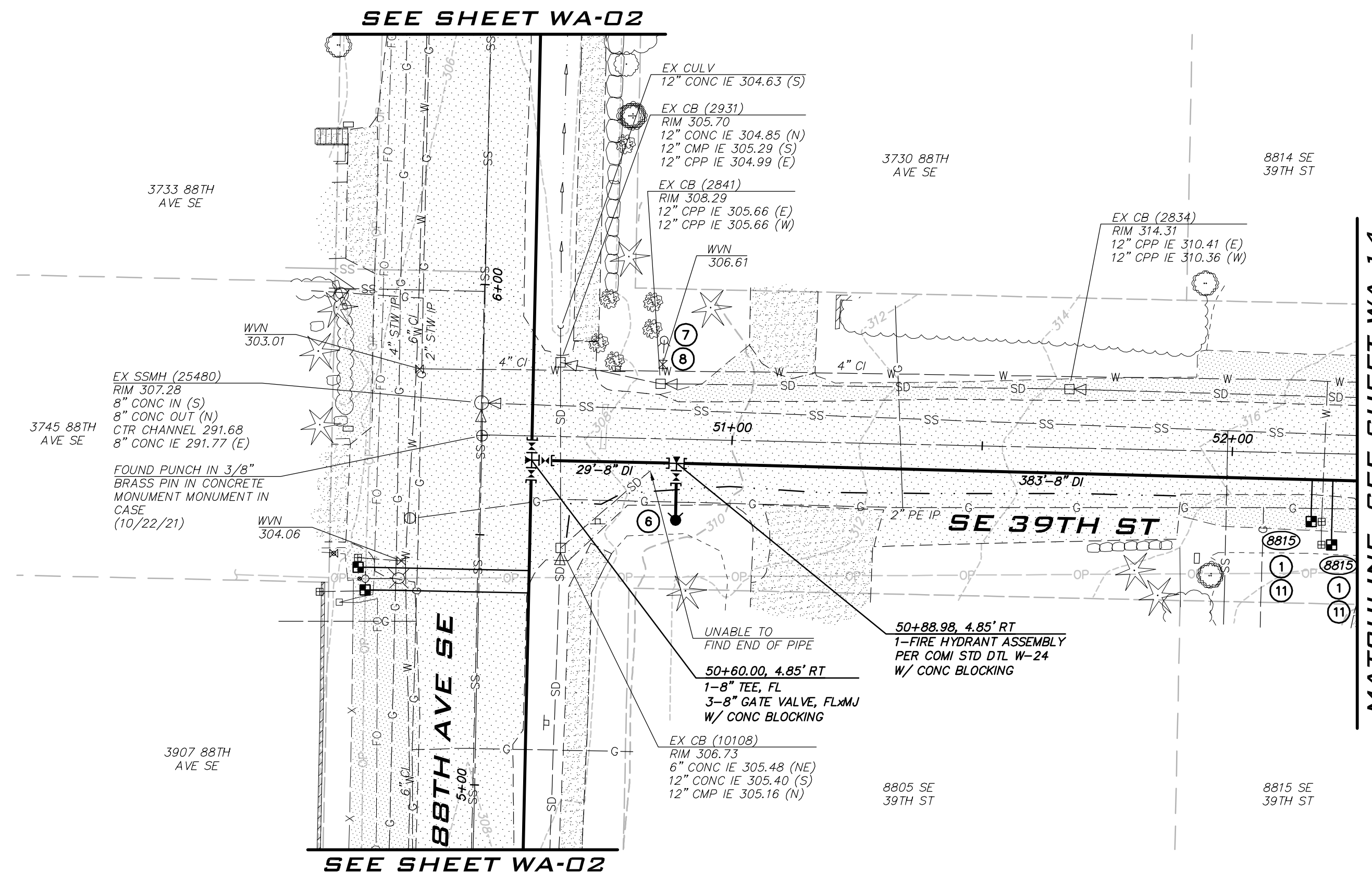
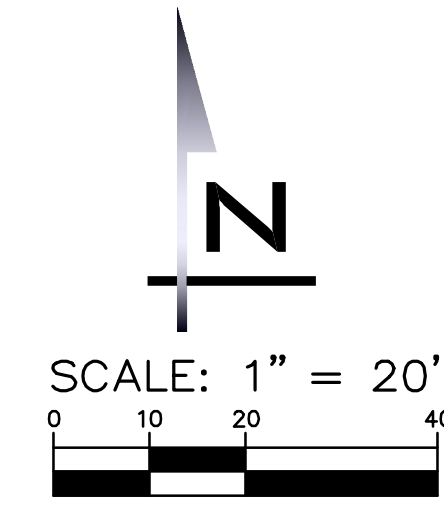
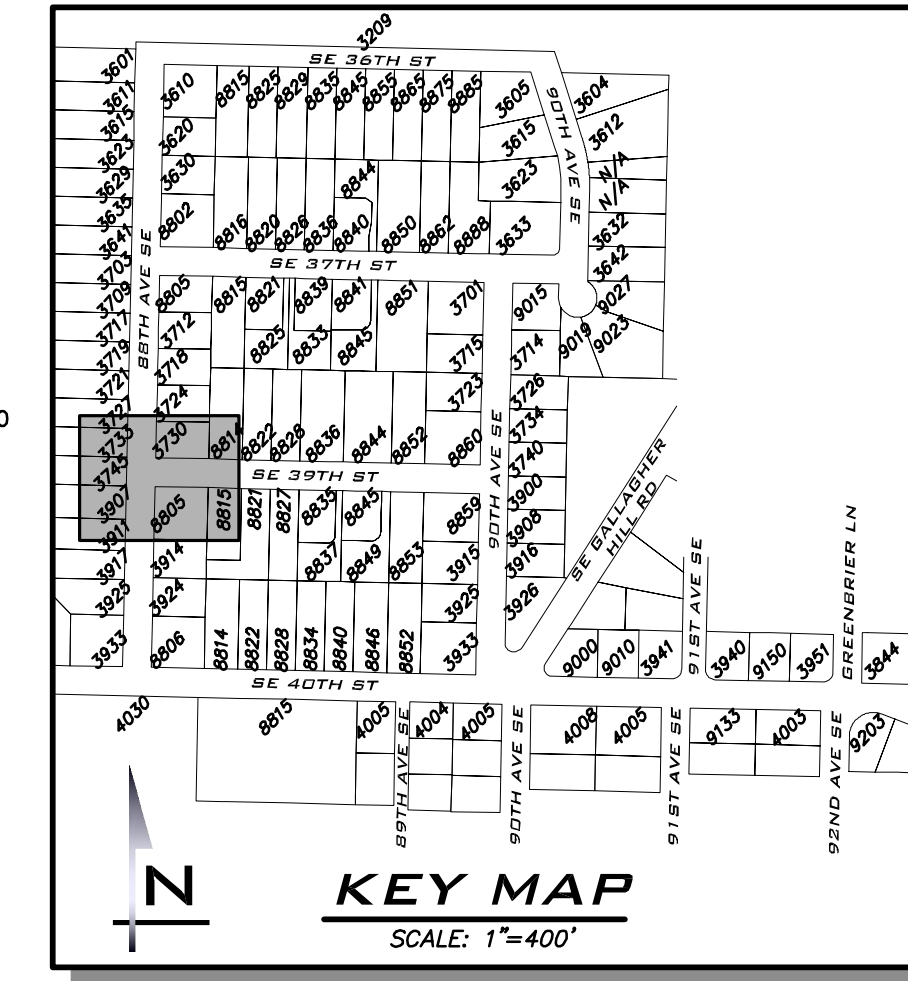
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

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DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



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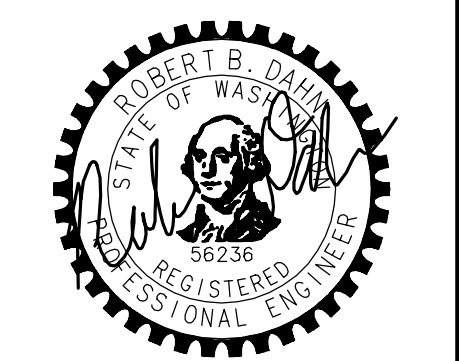
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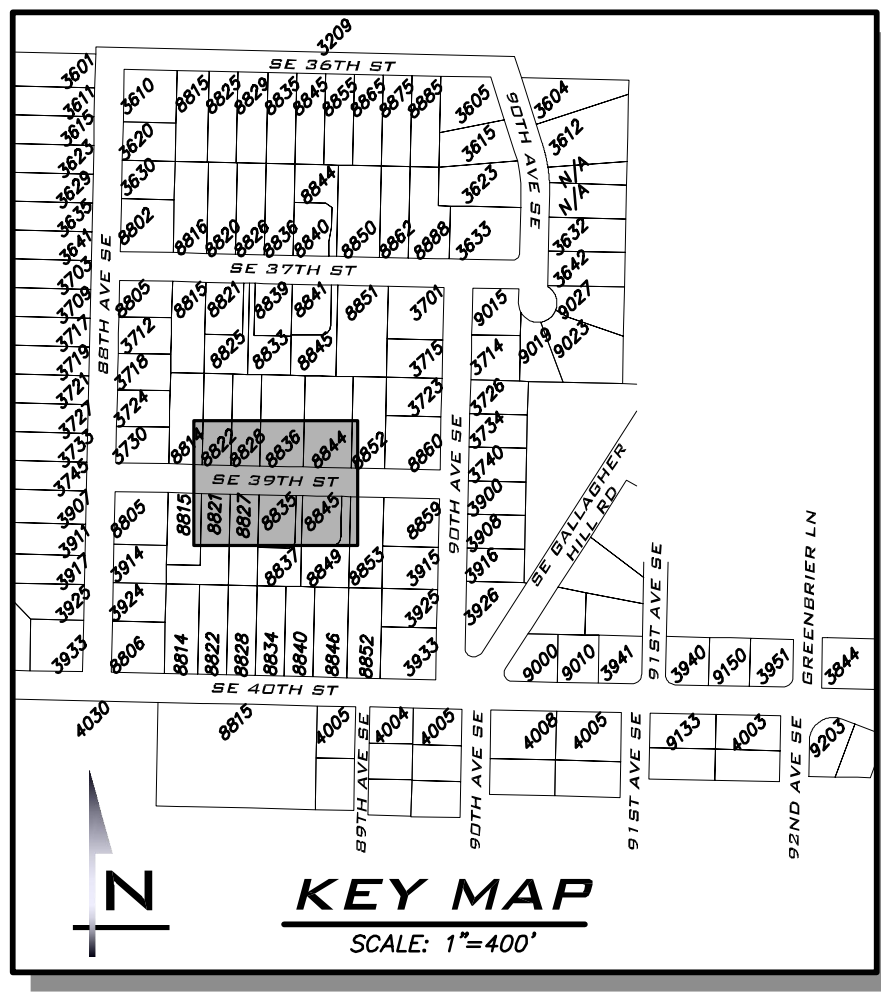
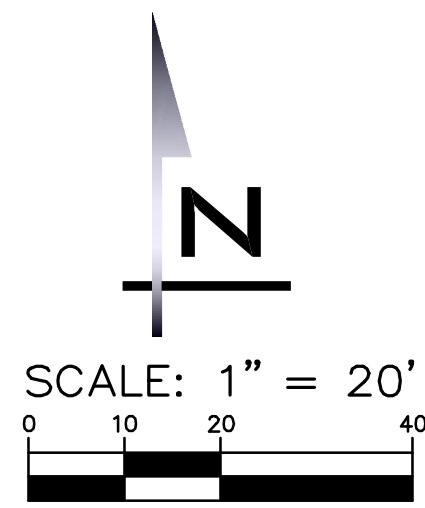
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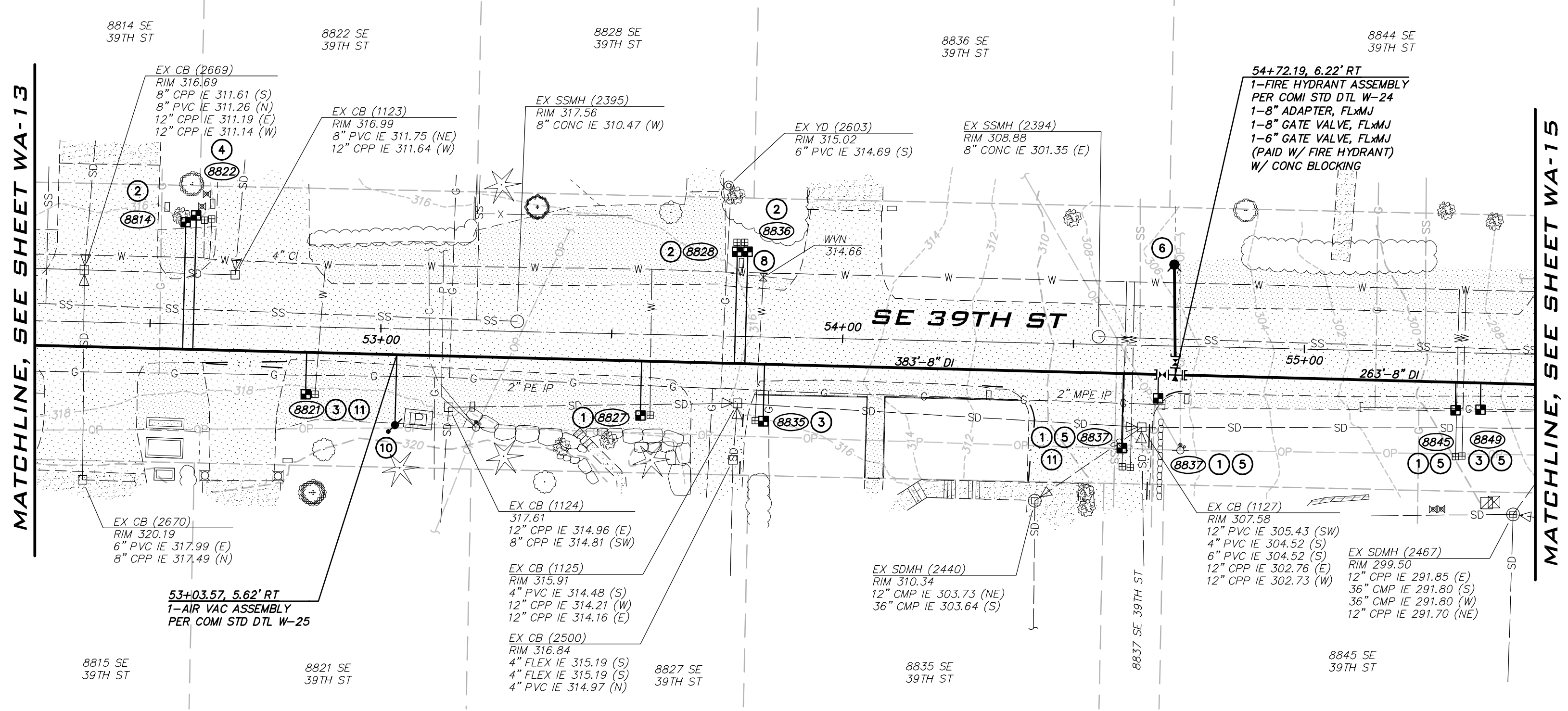
WATER PLAN - SE 39TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



3/14/22
JOB NUMBER:
21-303
SHEET NAME:
WA-13
SHT 35 OF 59



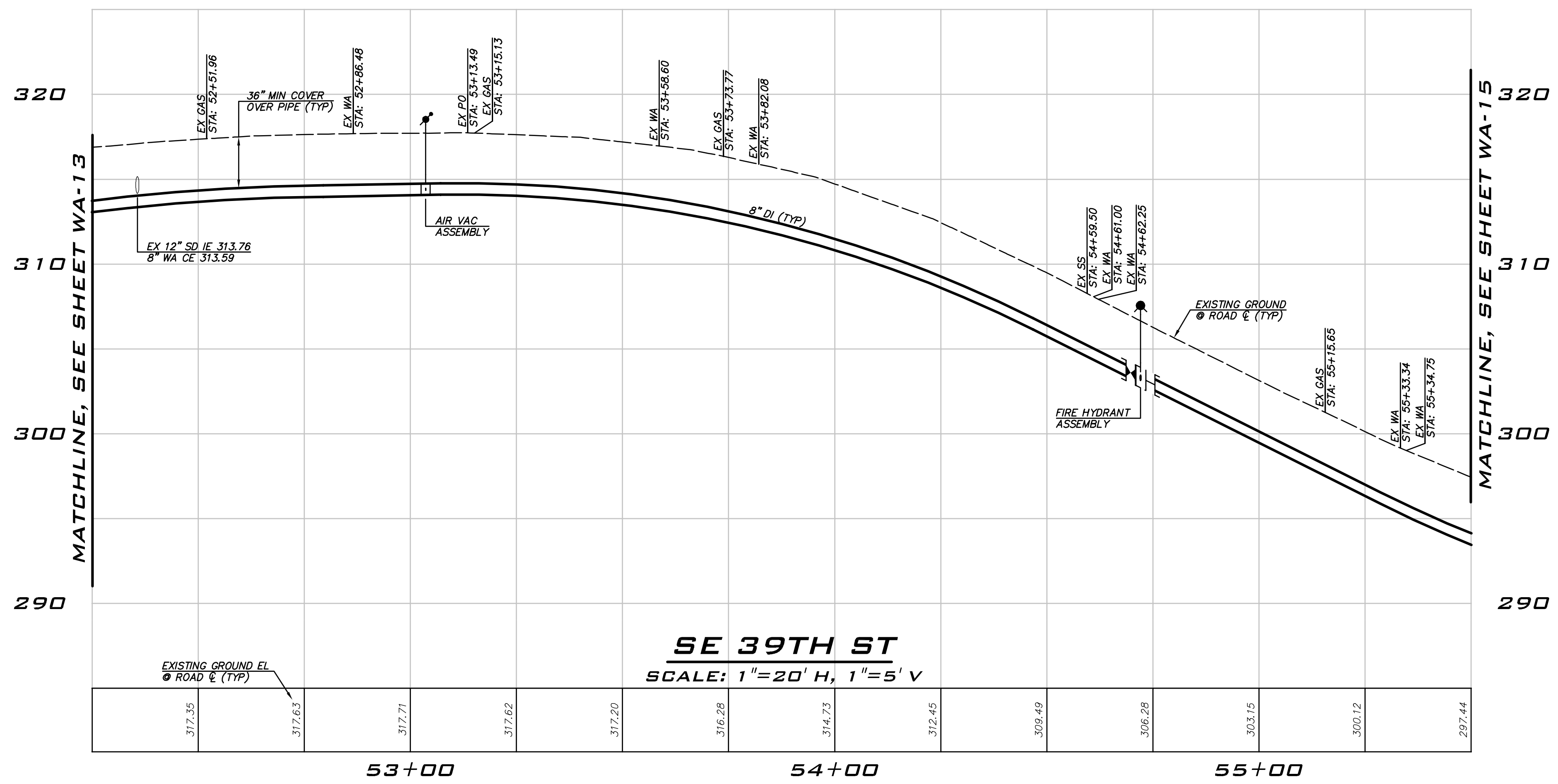
NO	DATE	BY	REVISIONS



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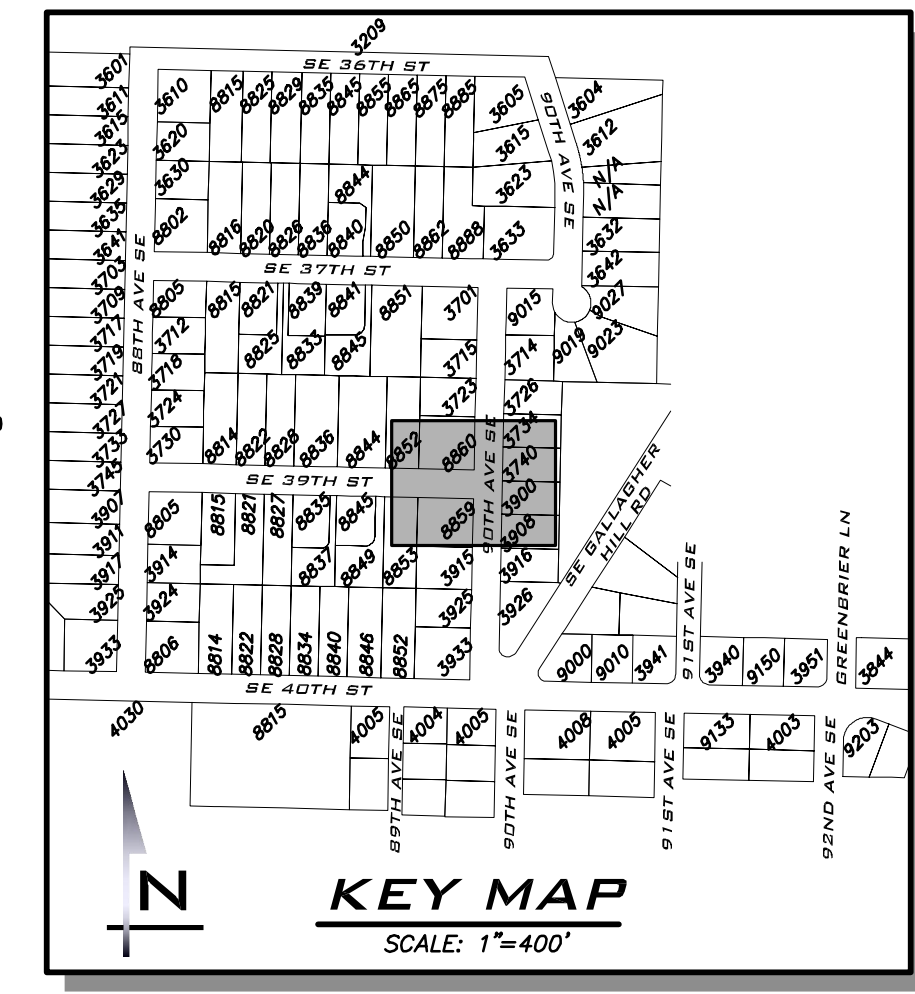
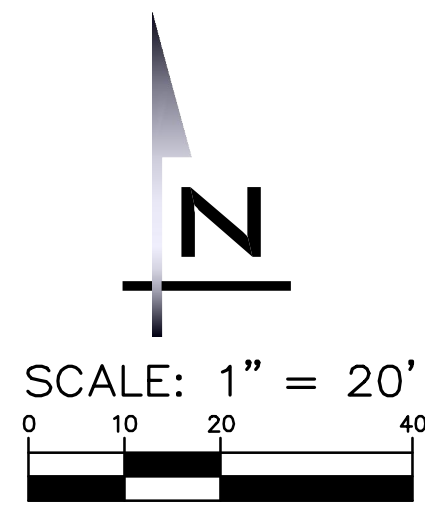
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2022 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

ROBERT B. DAHN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
56236

3/14/22
JOB NUMBER:
21-303
SHEET NAME:
WA-14
SHT 36 OF 59



BLUELINE

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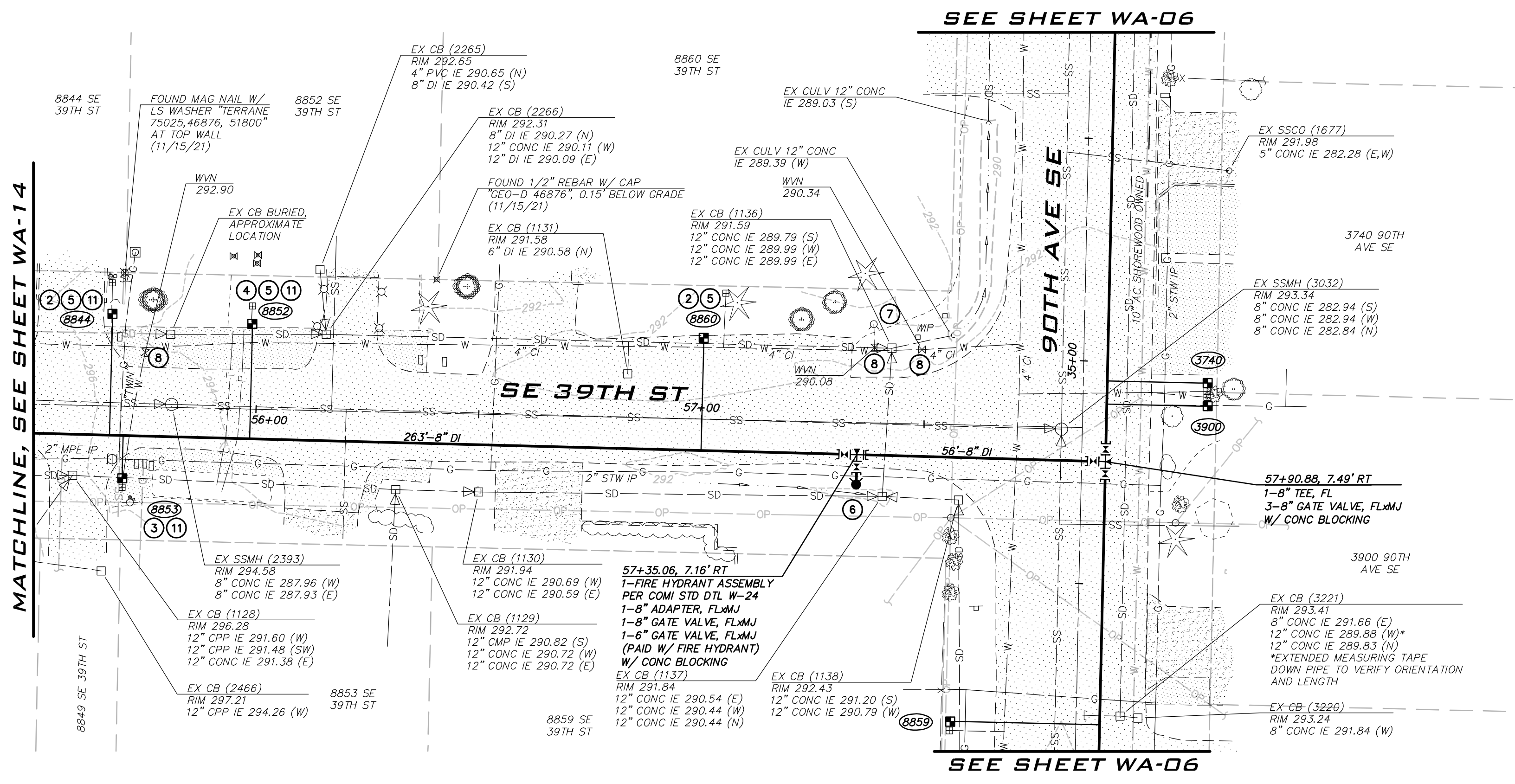
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



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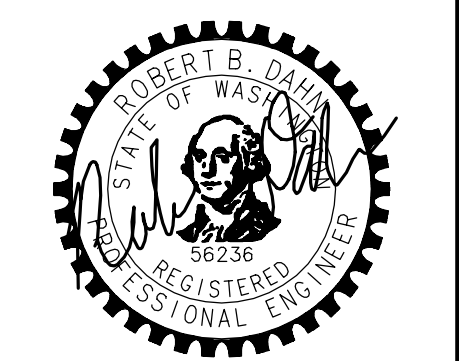
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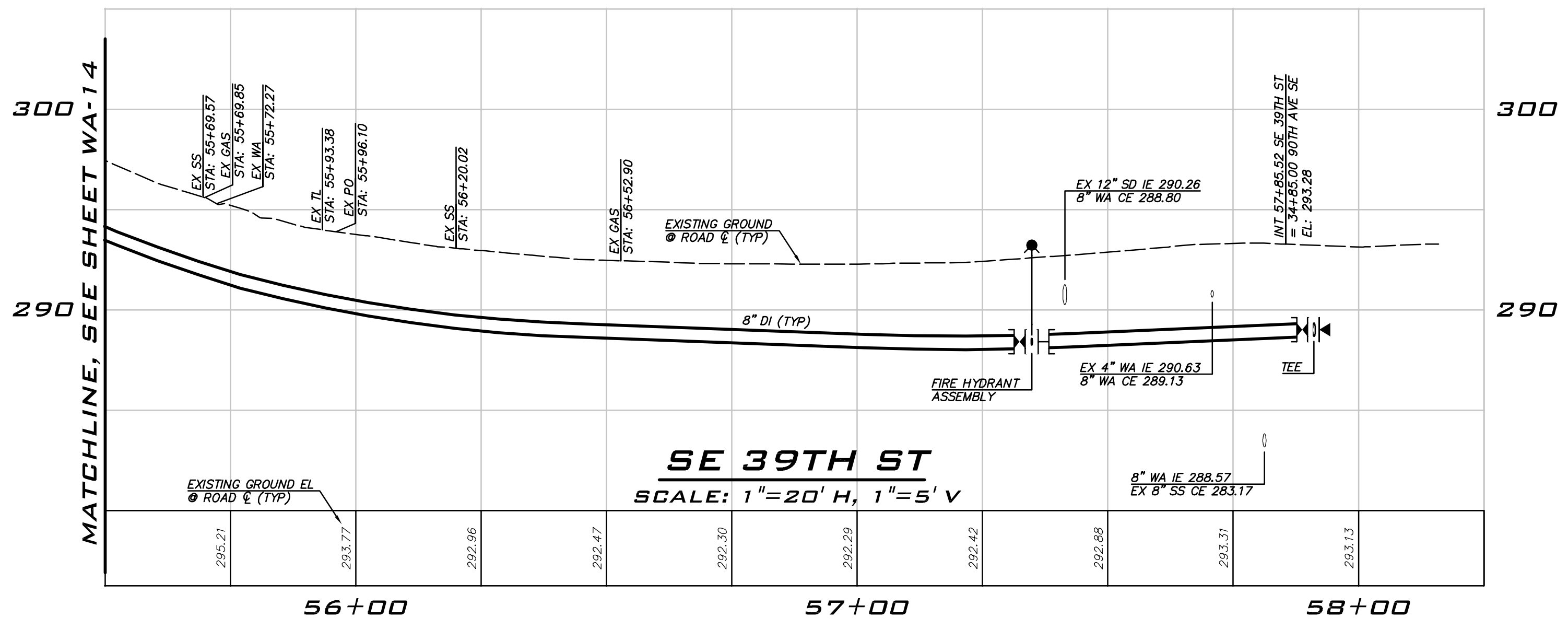


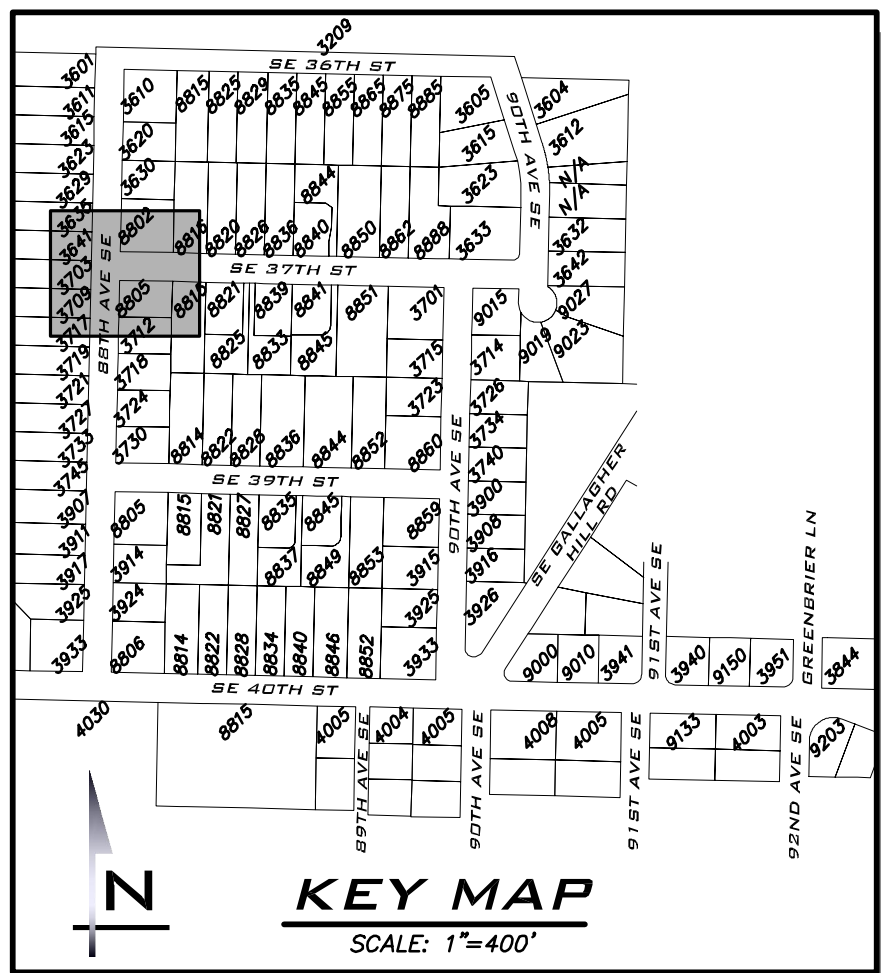
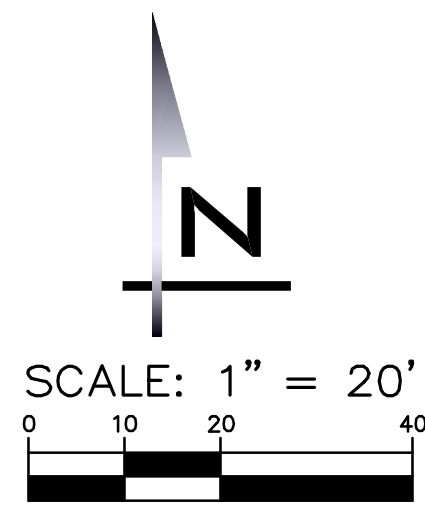
3/14/22

JOB NUMBER:
21-303

SHEET NAME:
WA-15

SHT **37** OF **59**





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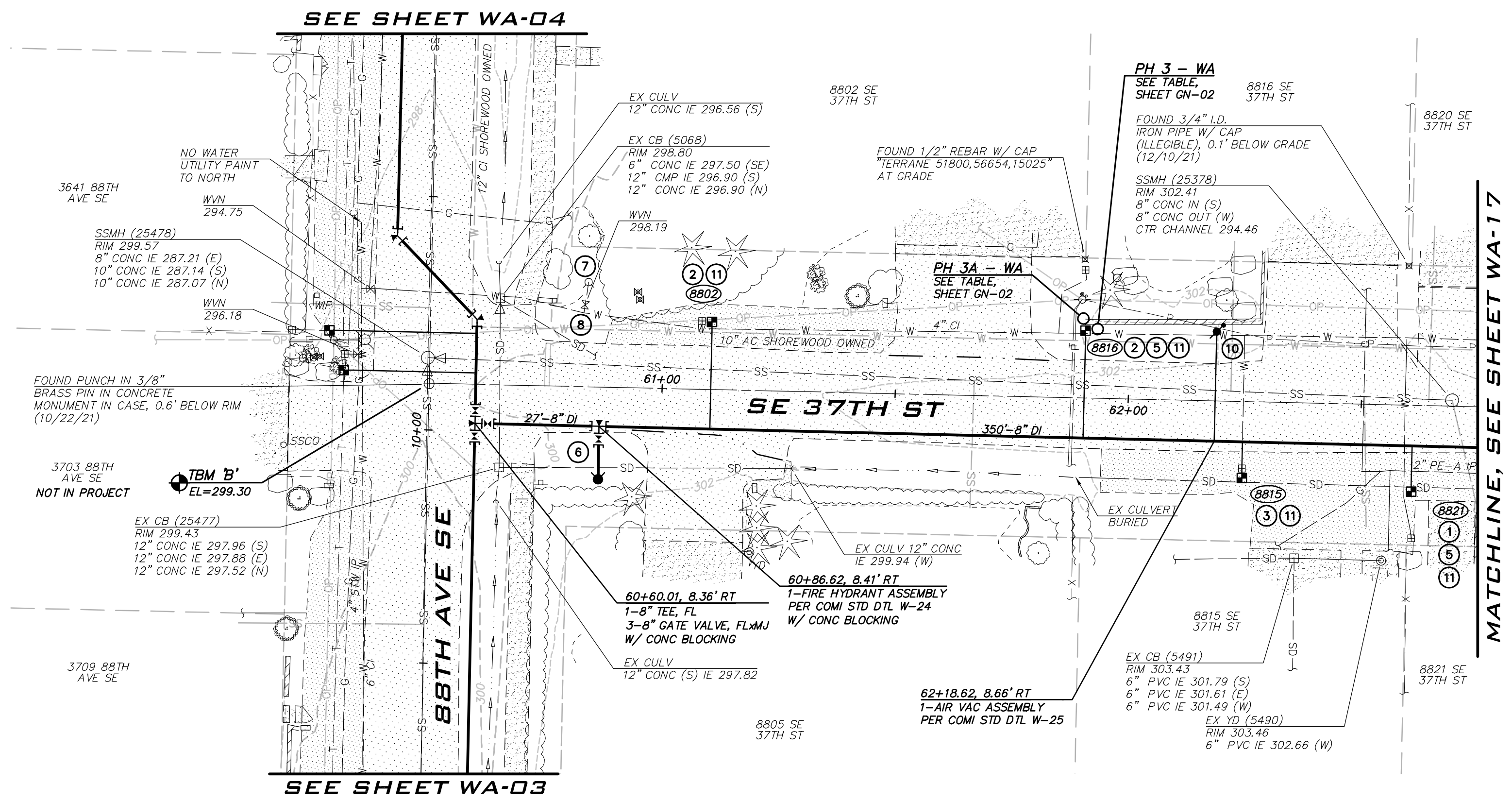
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

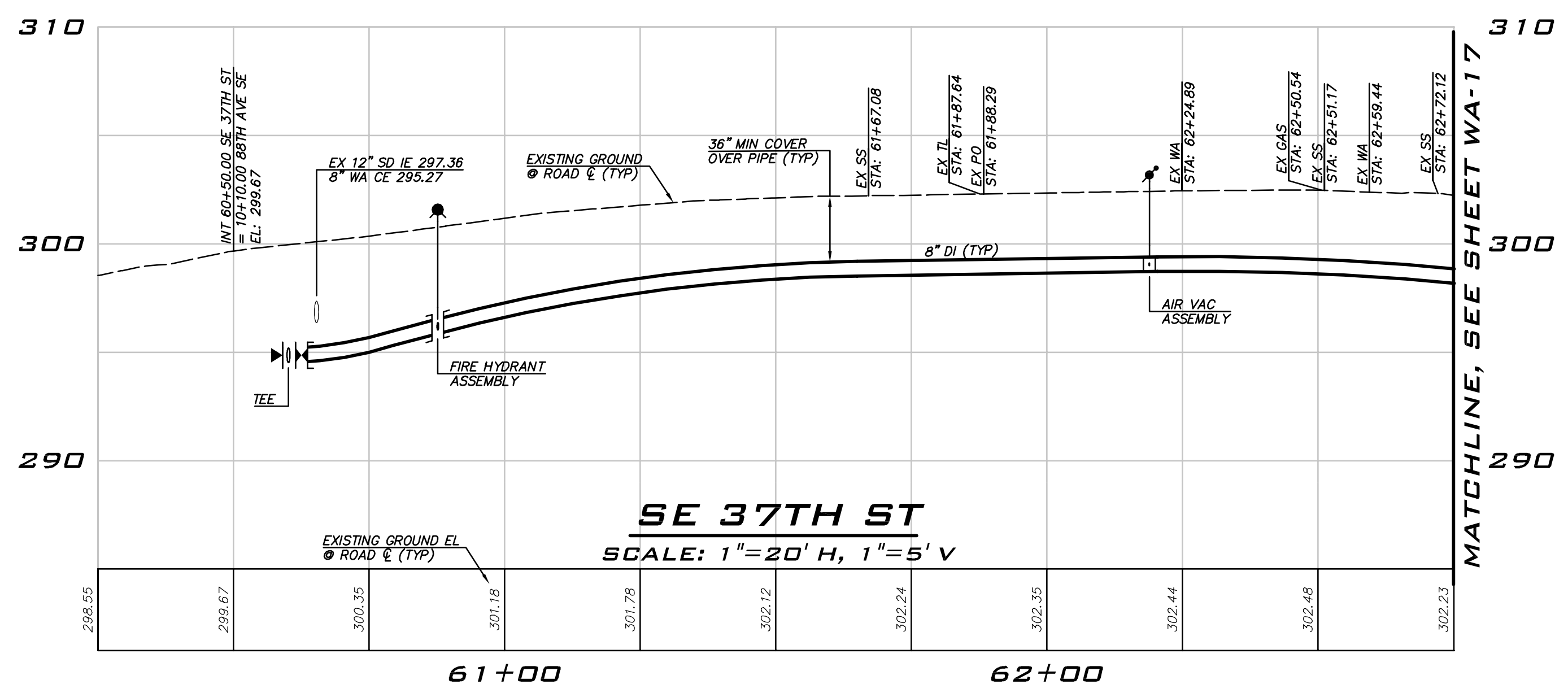
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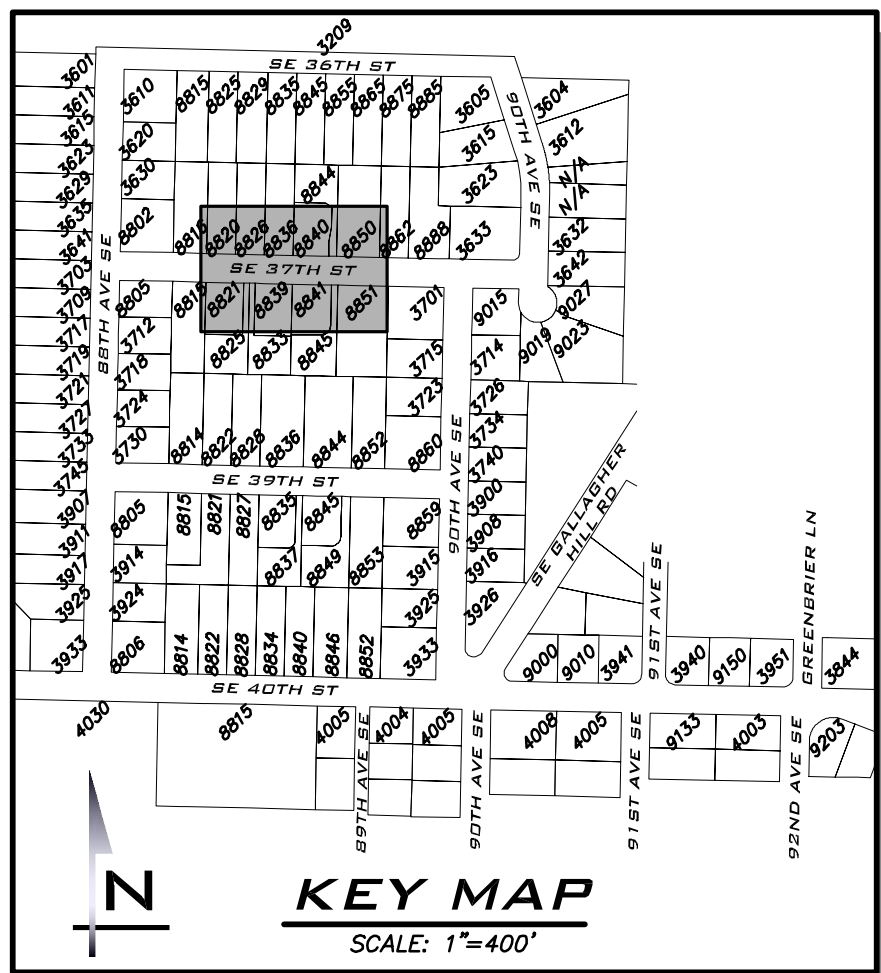
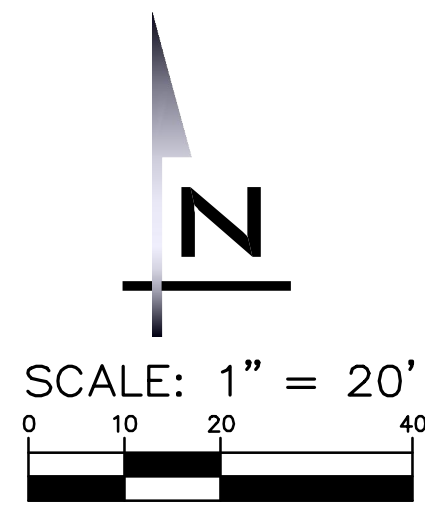
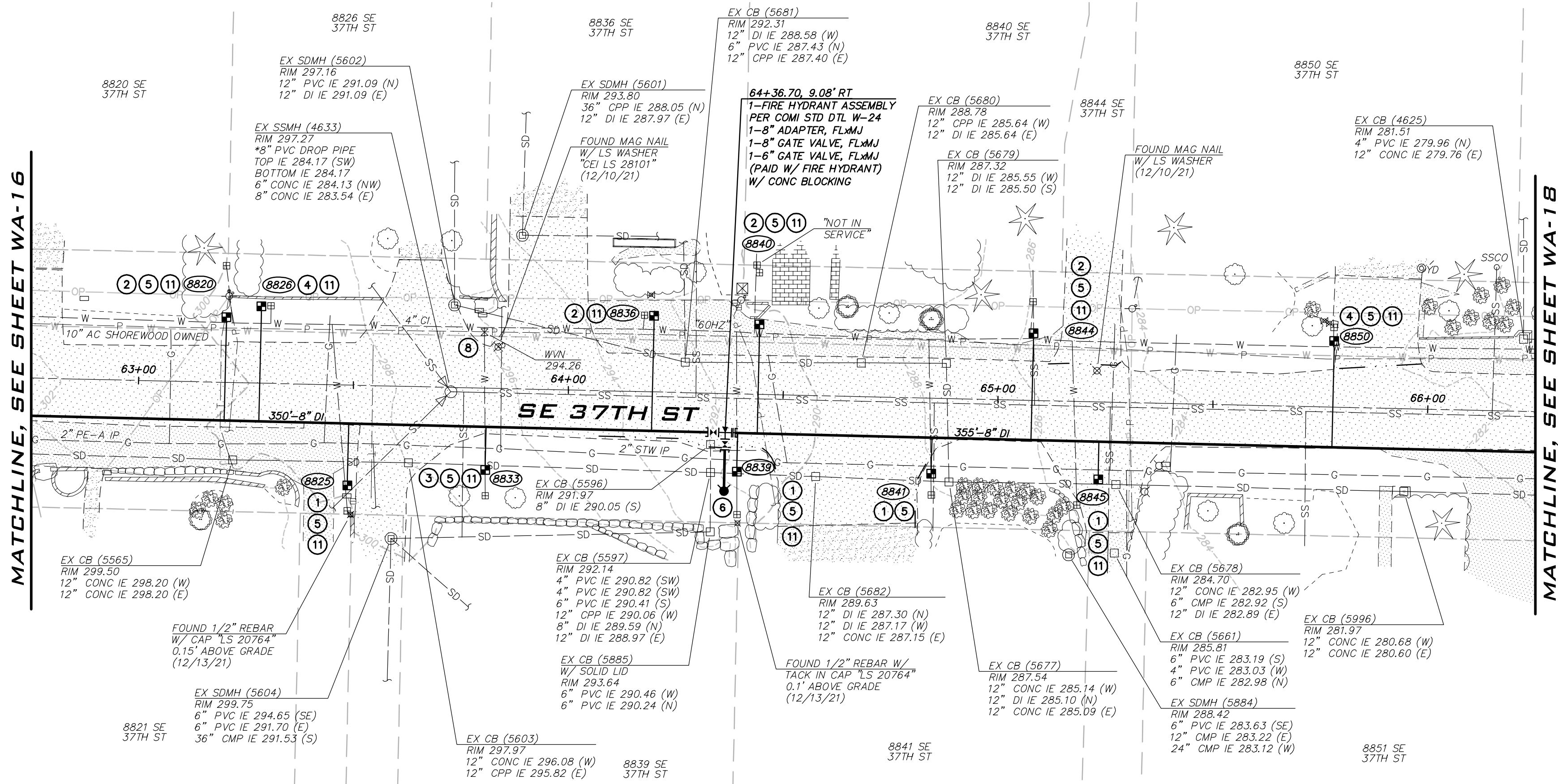
JOB NUMBER:
21-303

SHEET NAME:
WA-16

SHT **38** OF **59**

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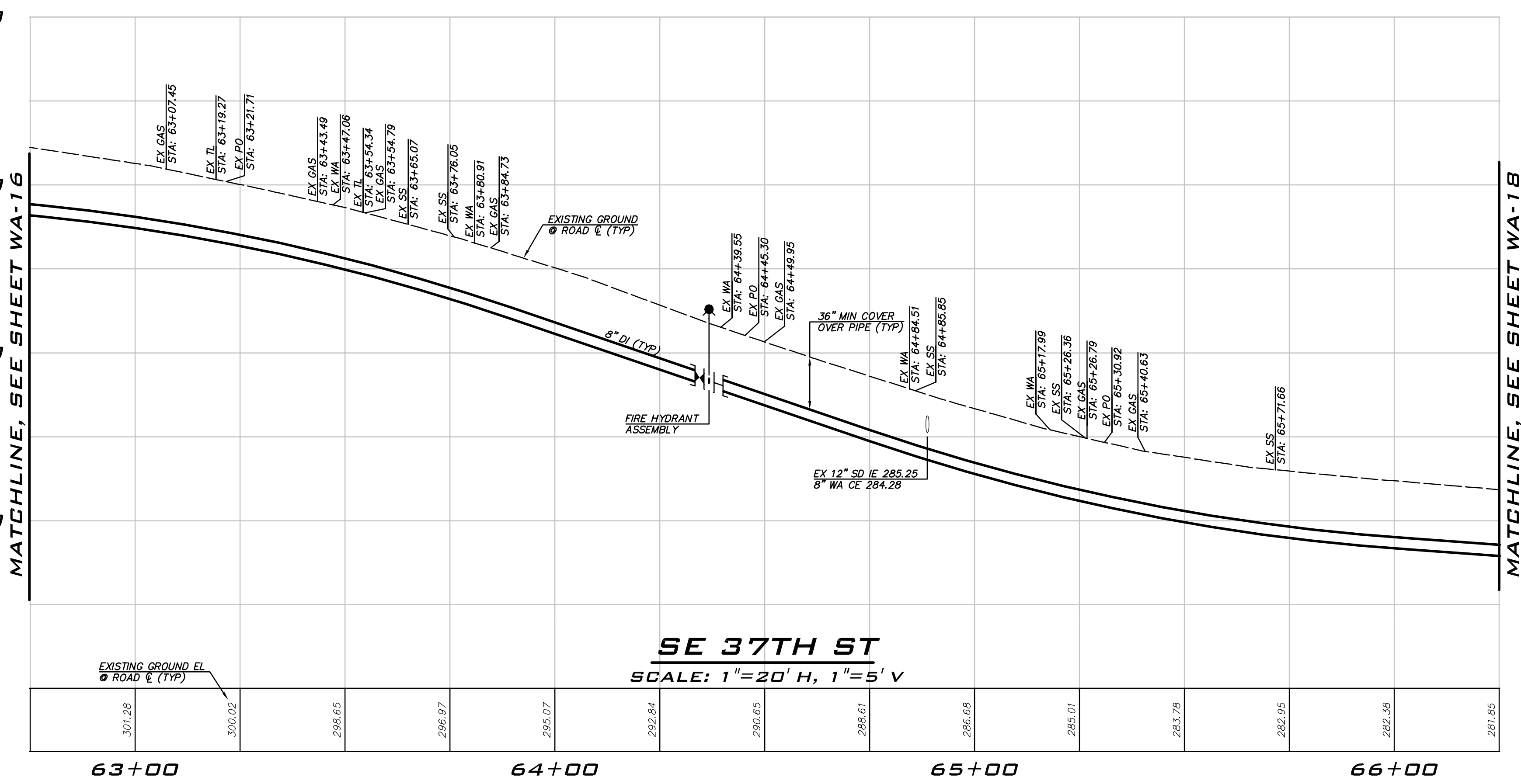
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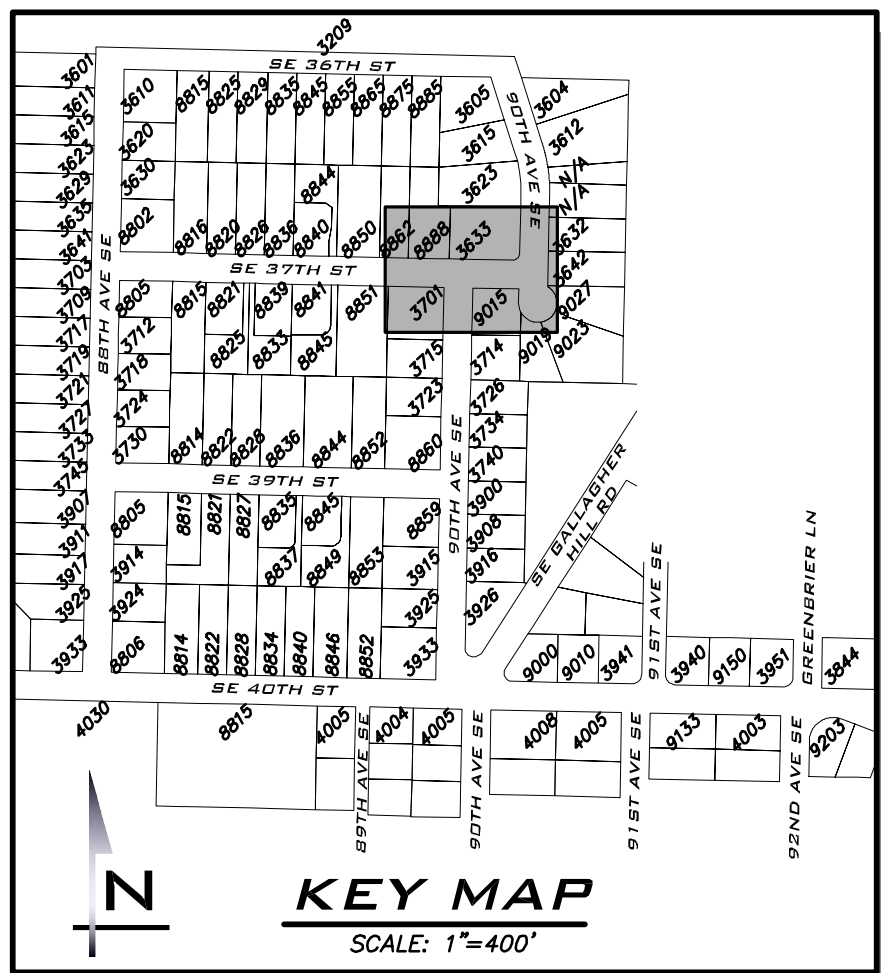
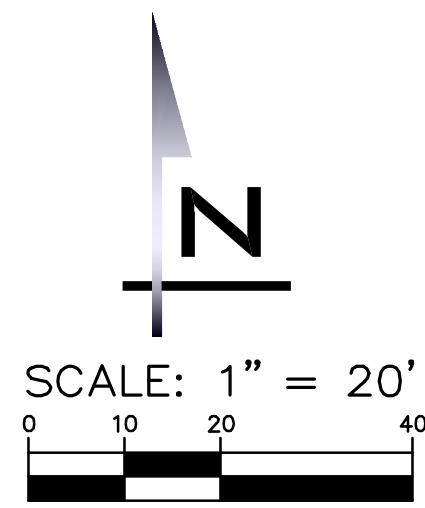
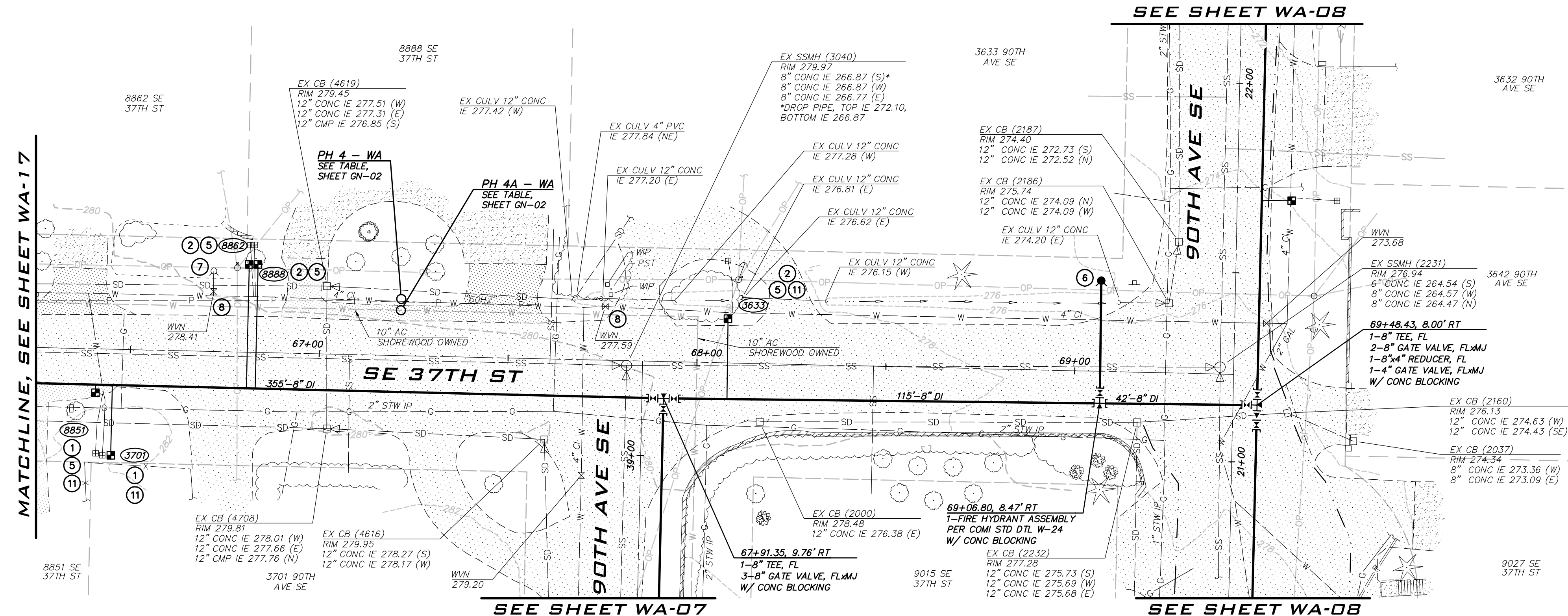
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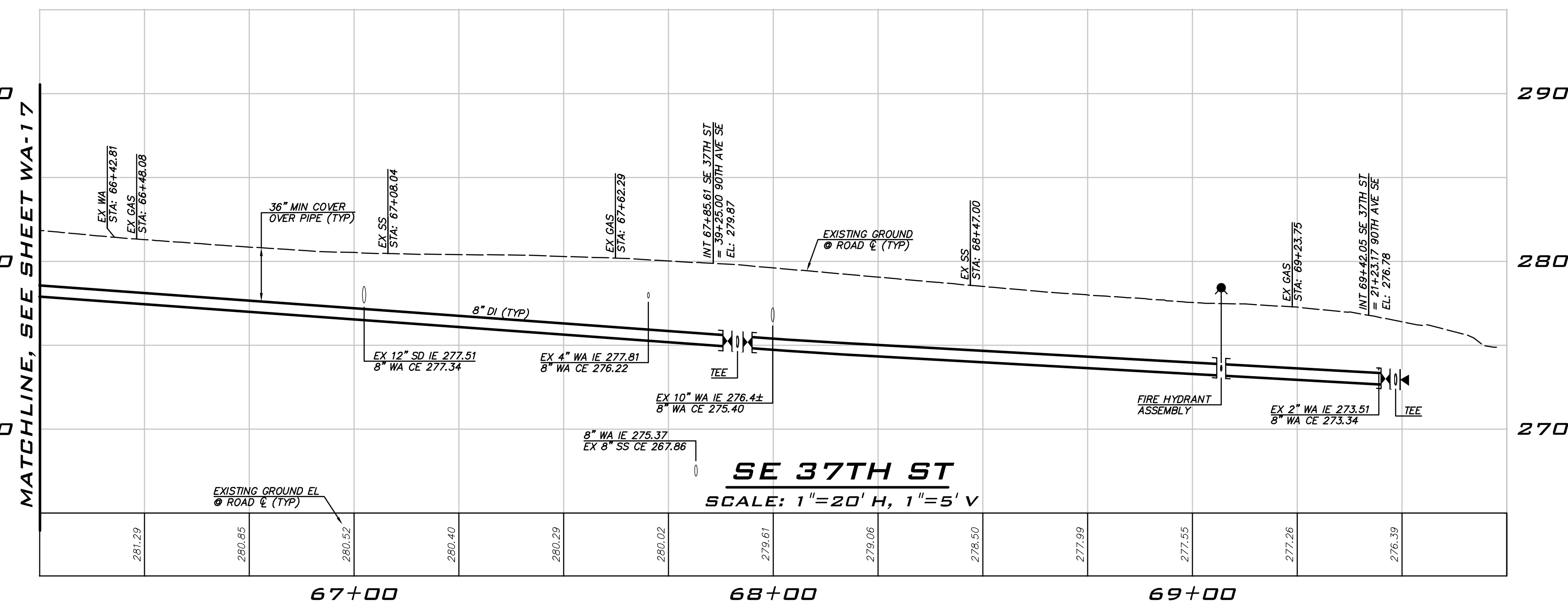
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SHT **39** OF **59**



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SCALE: AS NOTED
 PROJECT MANAGER: ROB DAHN, PE
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NO	DATE	BY	REVISIONS

WATER PLAN - SE 37TH ST
 2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

3/14/22
 JOB NUMBER: 21-303
 SHEET NAME: WA-18
 SHT 40 OF 59



BLUELINE

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

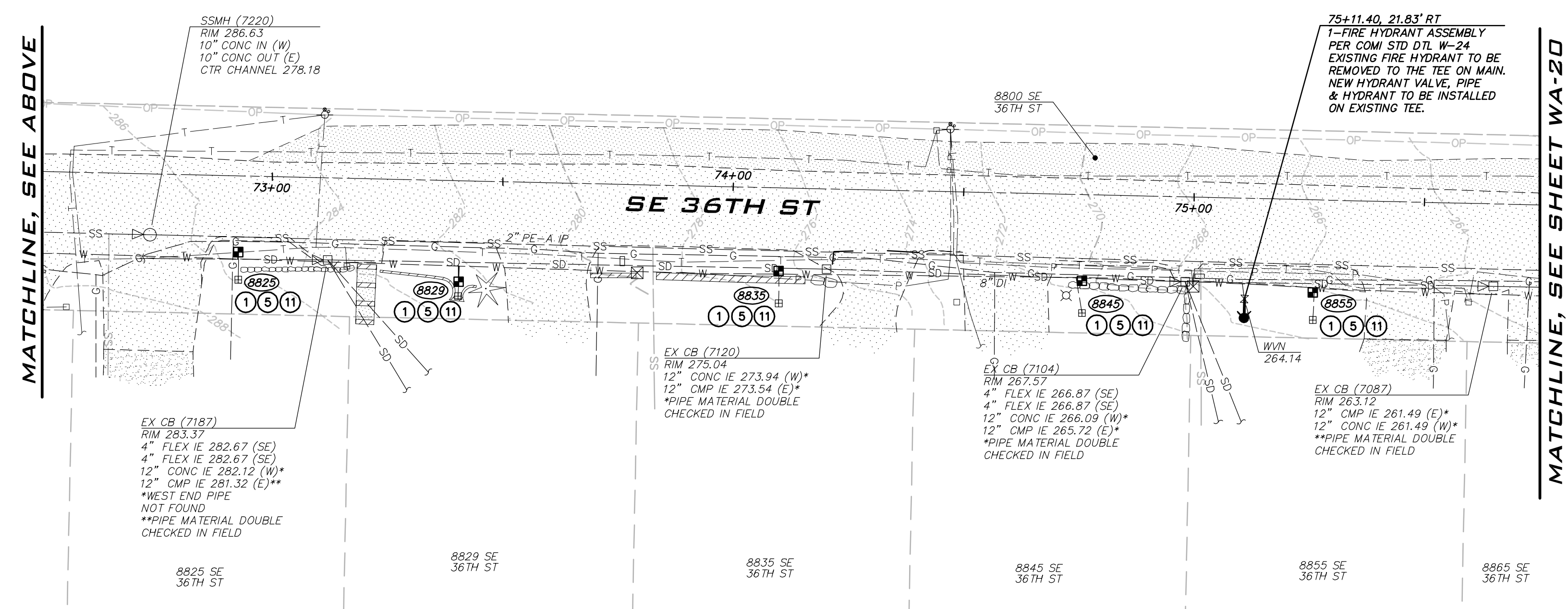
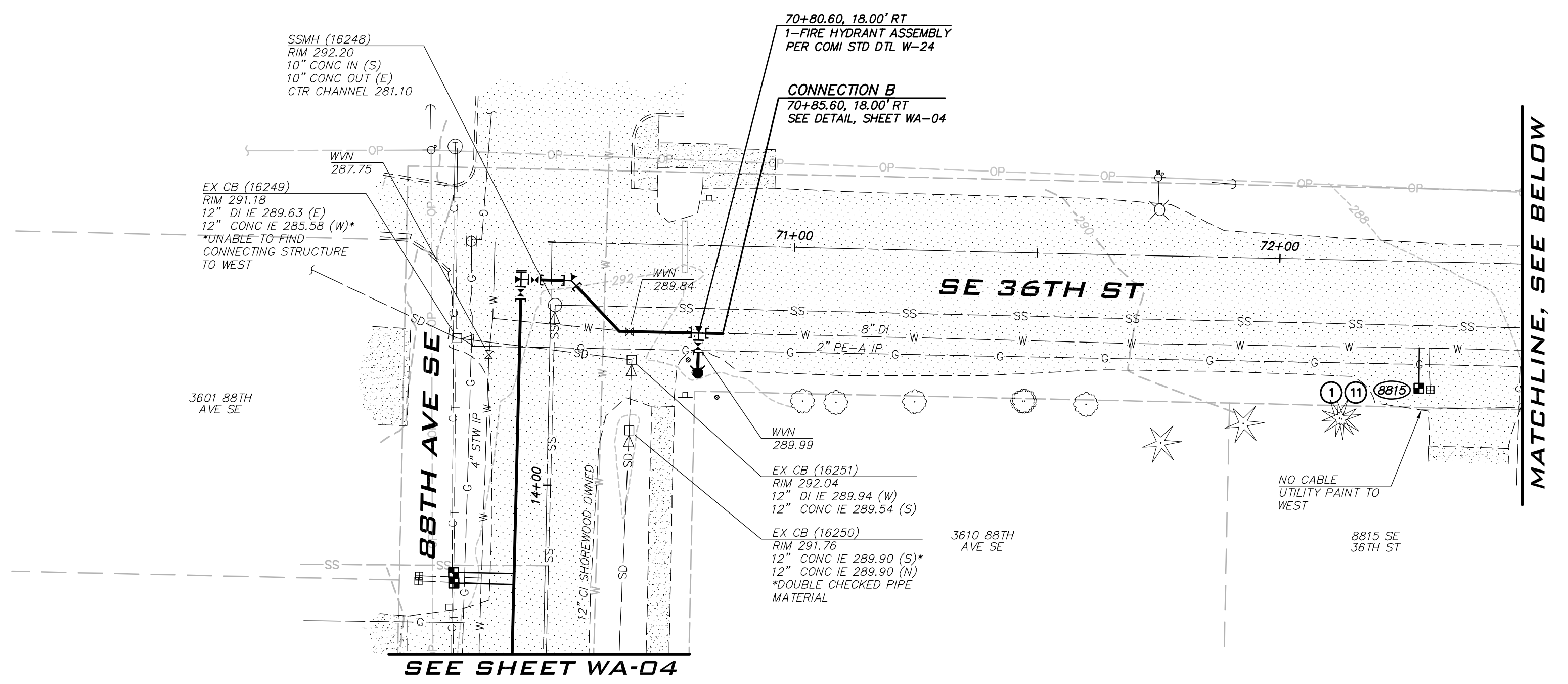
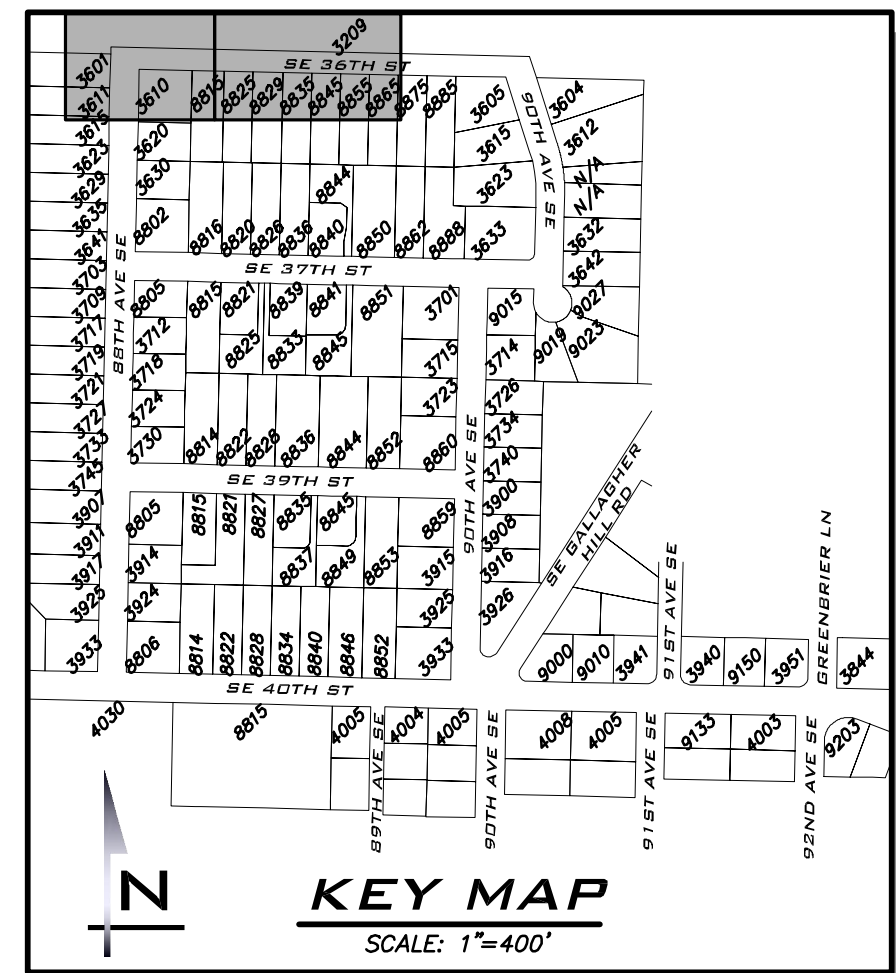
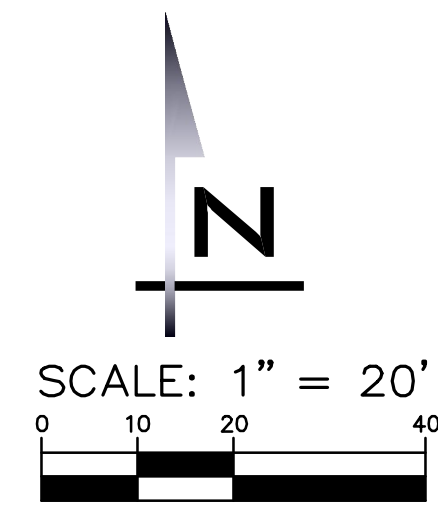
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



CONSTRUCTION NOTES

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

NOTES

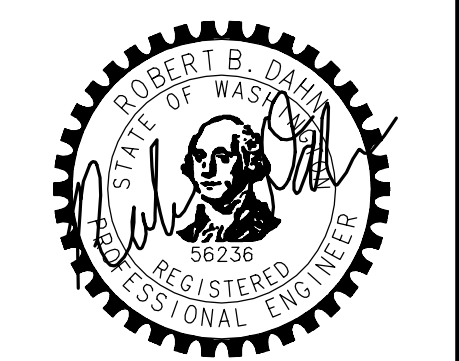
- INSTALL 1" SHORT SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- INSTALL 1" LONG SIDE WATER SERVICE PER STD DETAIL W-13 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
- INSTALL 2" SHORT SIDE WATER SERVICE FOR 1-1/2" METER PER STD DETAIL W-14 AND AS DESCRIBED IN PROJECT SPECIFICATIONS. (SEE NOTES 9 & 10 BELOW)
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- CONTRACTOR TO POTHOLE TO LOCATE CUSTOMER SIDE SERVICE. HOLE HOG FROM BACK OF METER TO CONNECT TO EXISTING CUSTOMER SIDE SERVICE.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES IN ADVANCE TO SET HYDRANTS WITHOUT USING VERTICAL BENDS.
- REMOVE EXISTING FIRE HYDRANT, CAP OR PLUG AT THE END OF EXISTING PIPE AS DIRECTED BY THE CITY.
- EXISTING GATE VALVE ON MAIN TO BE ABANDONED. CONTRACTOR TO CLOSE EXISTING VALVE, REMOVE VALVE BOX AND LID TO 1' BELOW GRADE, REPLACE LID AND ADD PVC MARKER THAT READS: "ABANDONED GATE VALVE."
- METER, METER BOX, AND ADDITIONAL INFORMATION ARE PROVIDED ON SHEET GN-03.
- EXACT LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.
- REPLACE EXISTING CONCRETE METER BOX WITH TRAFFIC RATED METER BOX. CITY TO PROVIDE NEW METER BOX.
- INTERCEPT EXISTING 1.5" SHORT SIDE SERVICE. CUT EXISTING SERVICE LINE AT NEW MAIN. CONNECT TO NEW MAIN PER STD DETAIL W-14.
- COMPLETE SERVICE INSTALLATION PRIOR TO ABANDONMENT.

EXISTING UTILITY NOTE

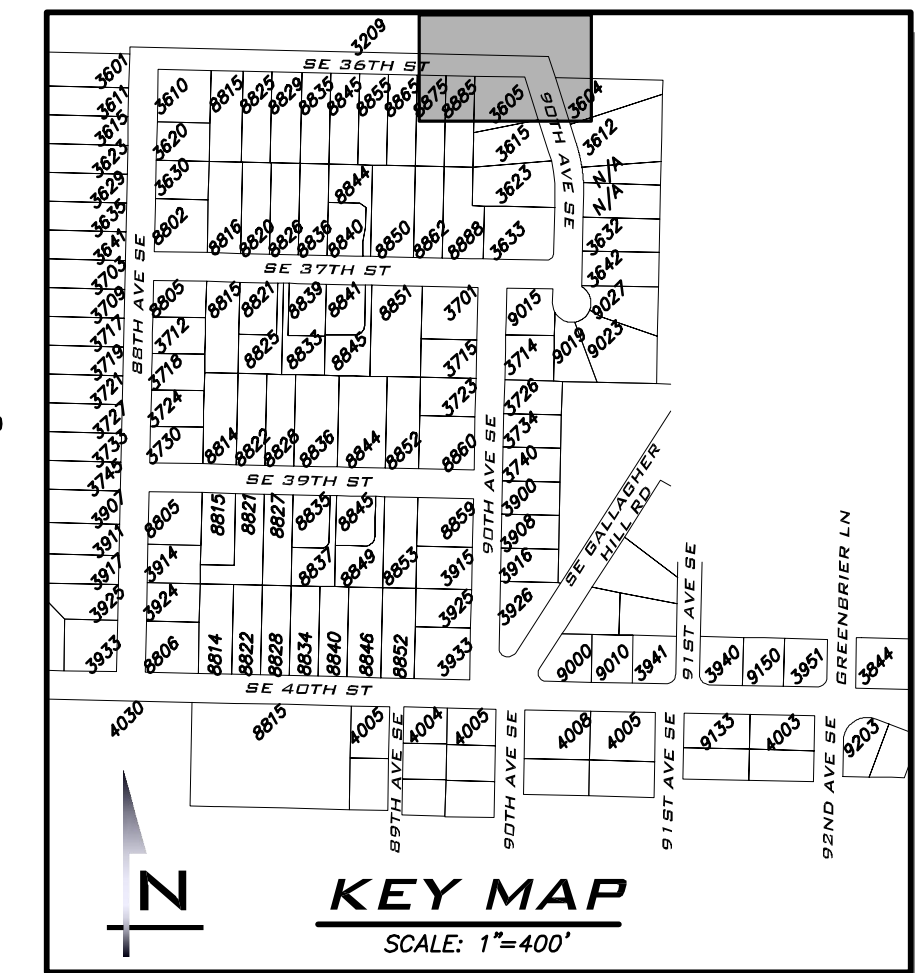
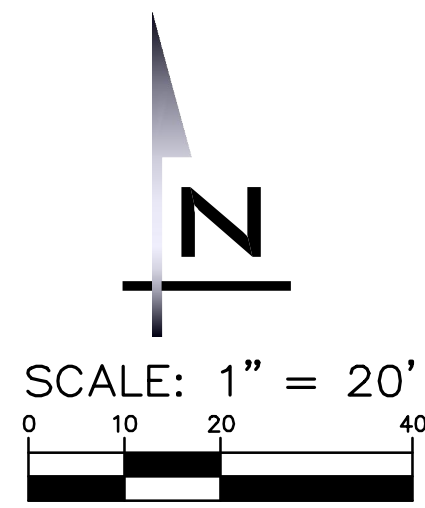
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NO	DATE	BY	REVISIONS

WATER PLAN - SE 36TH ST
2022 WATER SYSTEM IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
WA-19
 SHT **41** OF **59**



BLUELINE

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

SCALE:
AS NOTED

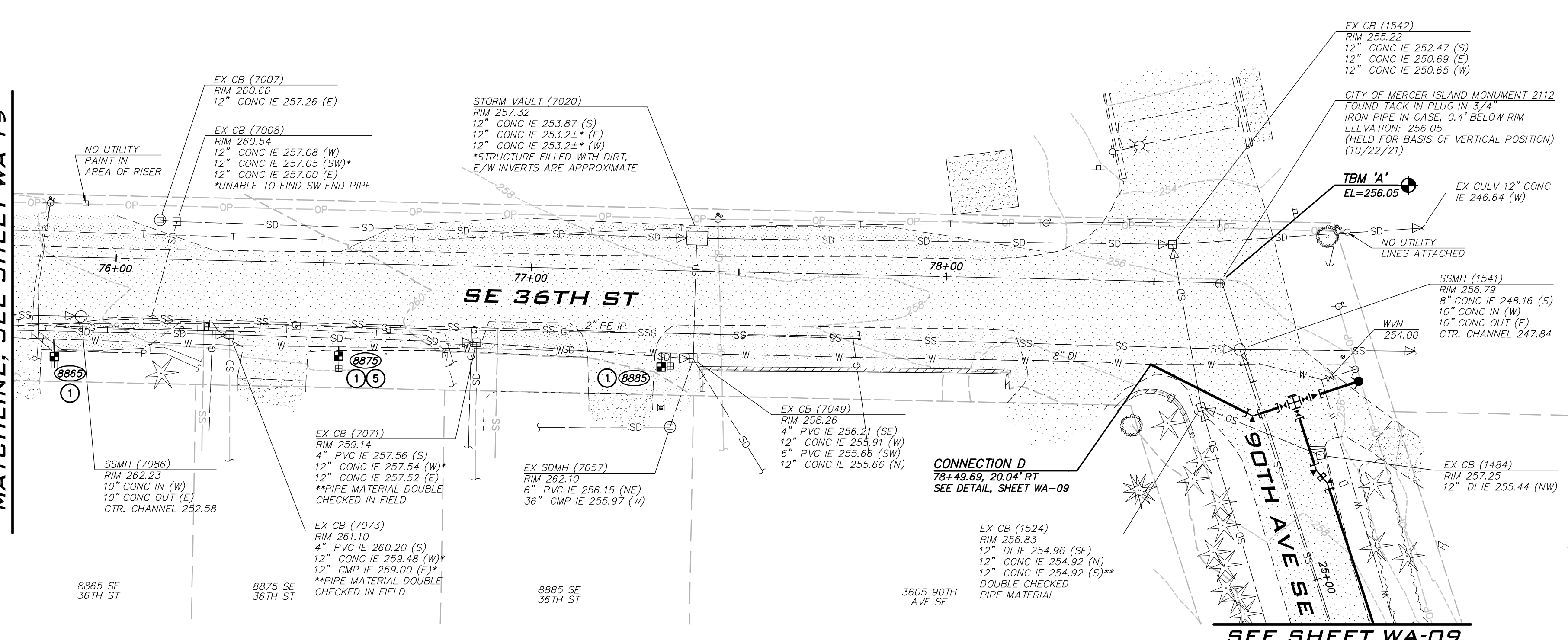
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

MATCHLINE, SEE SHEET WA-19



SEE SHEET WA-09

- CONSTRUCTION NOTES**
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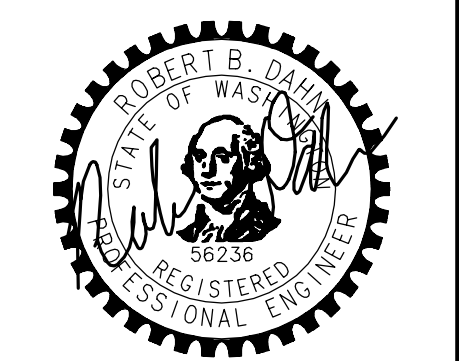
- NOTES**
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NO	DATE	BY	REVISIONS

WATER PLAN - SE 36TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON

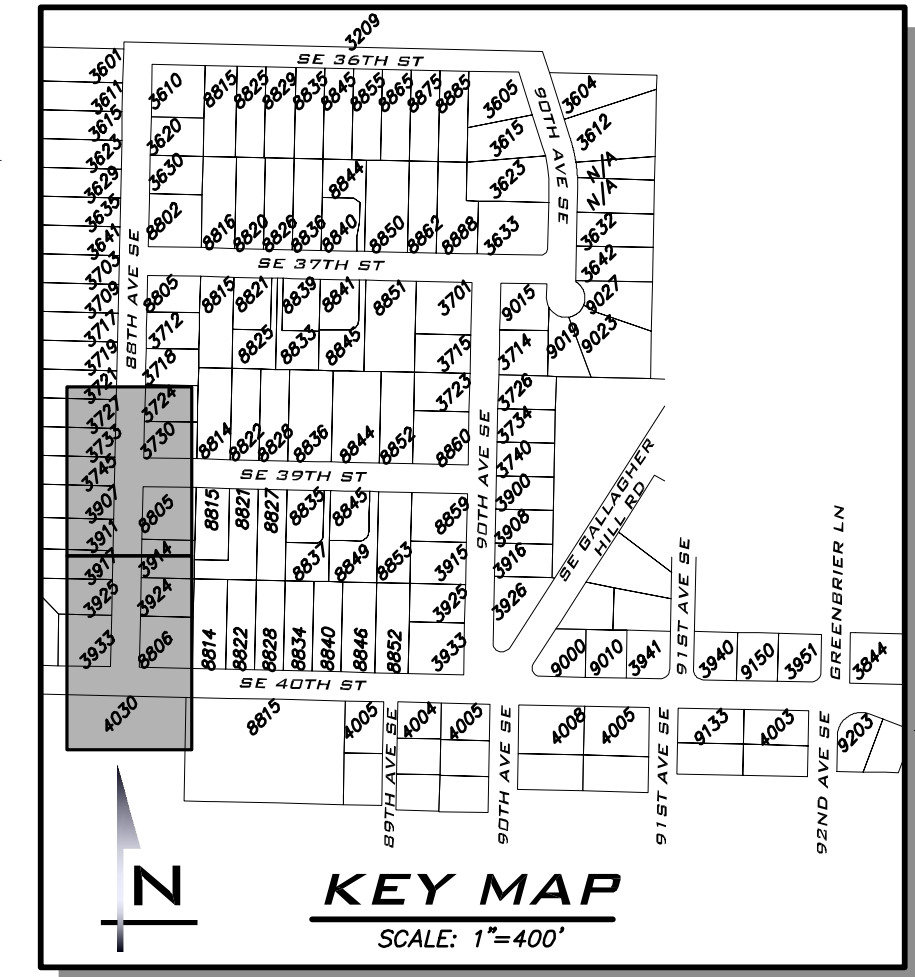
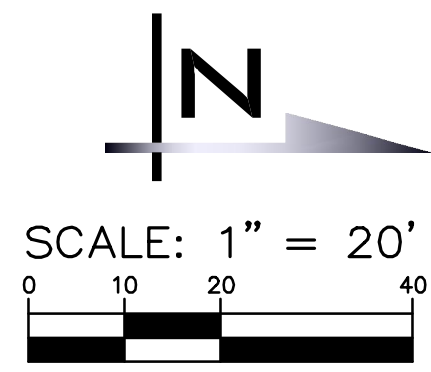


3/14/22

JOB NUMBER:
21-303

SHEET NAME:
WA-20

SHT **42** OF **59**



BLUELINE

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KIRKLAND, WA 98033
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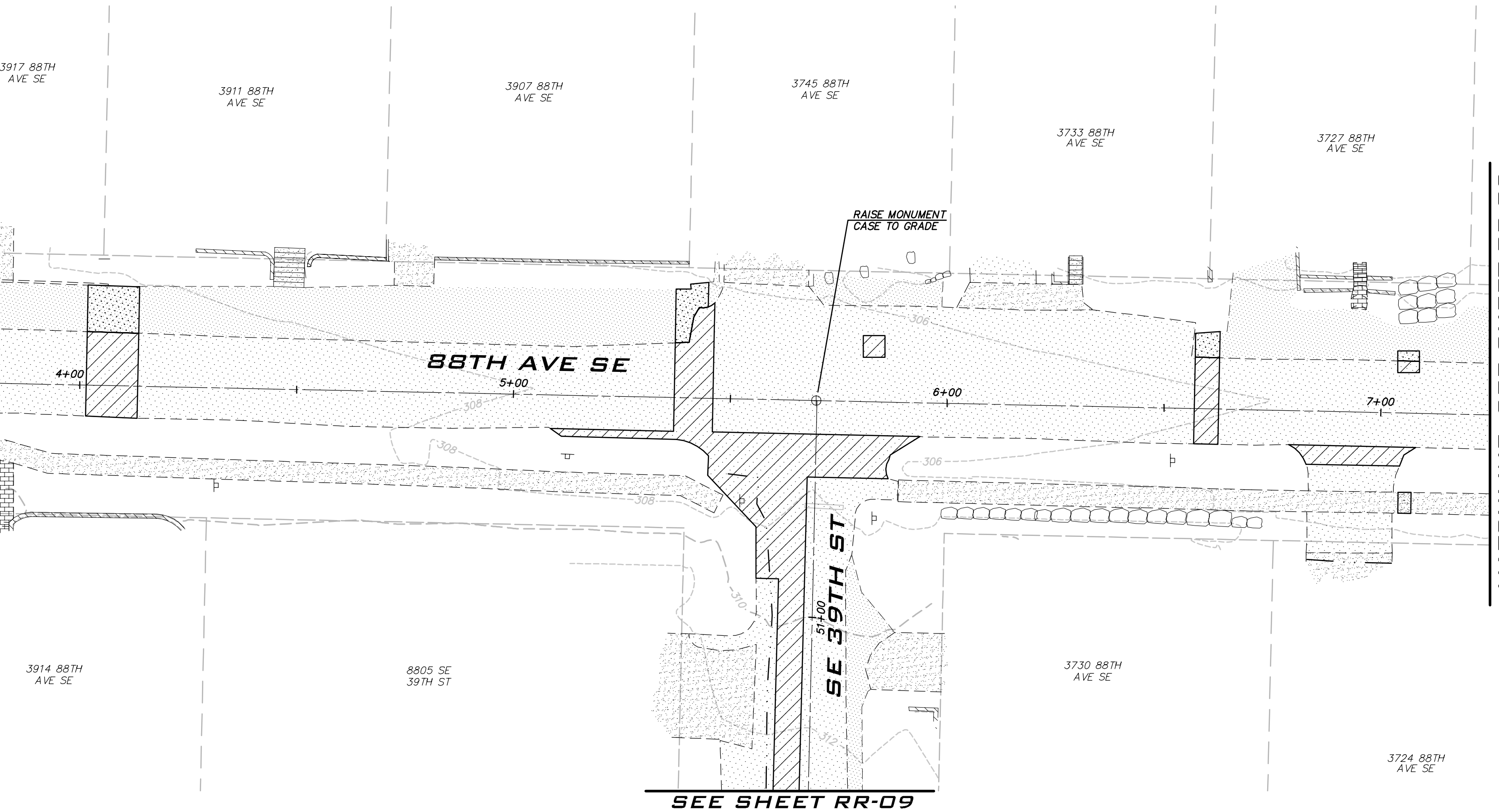
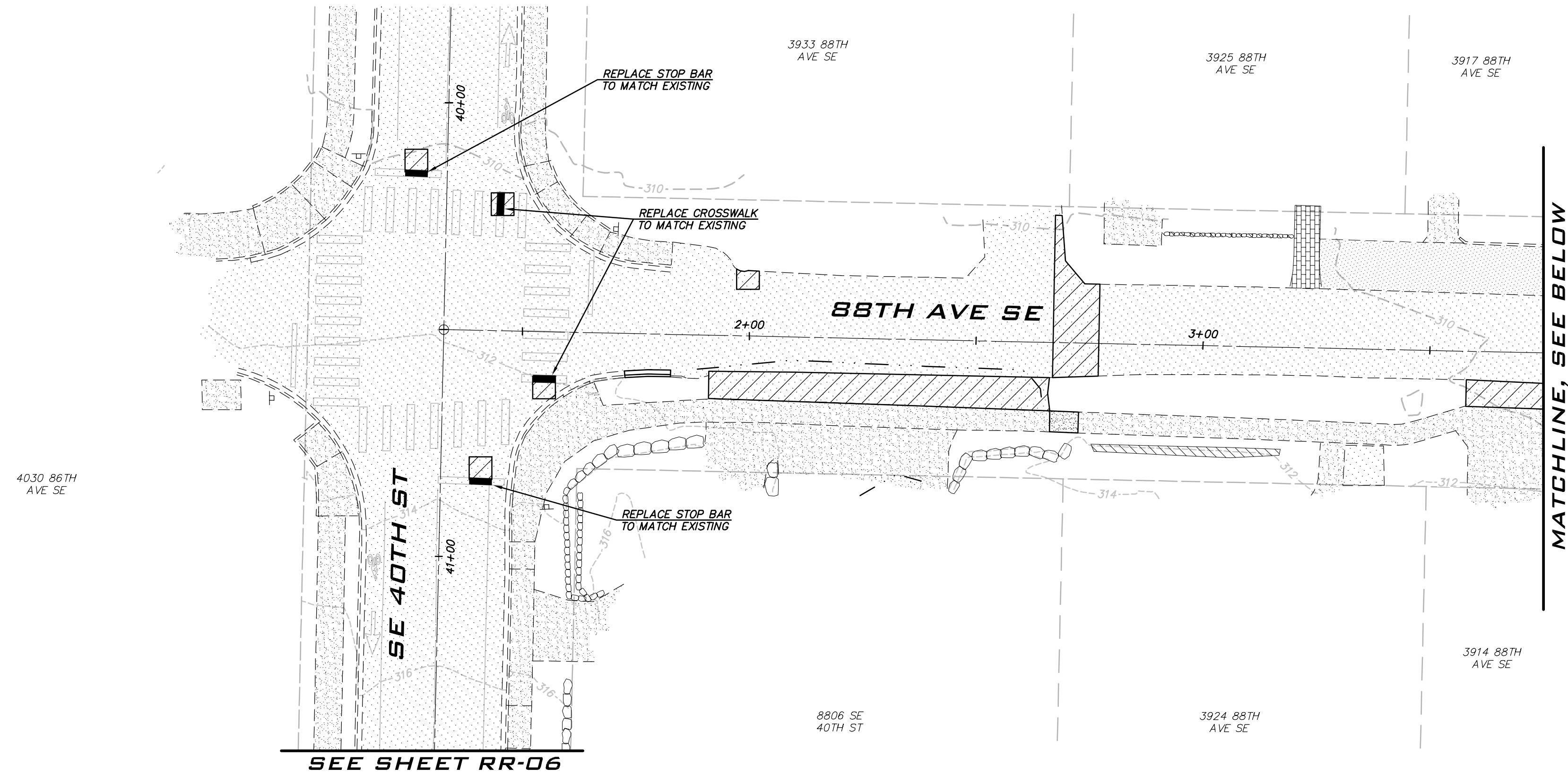
SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022



LEGEND

	CSTC
	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	SIDEWALK, CURB AND GUTTER

NOTES

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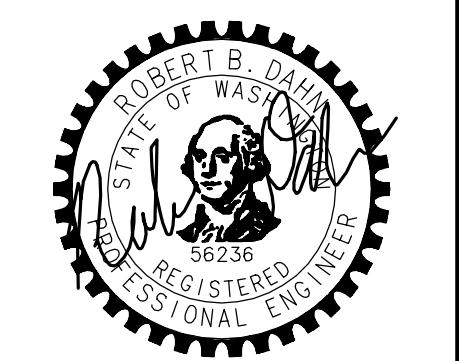
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NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
88TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON

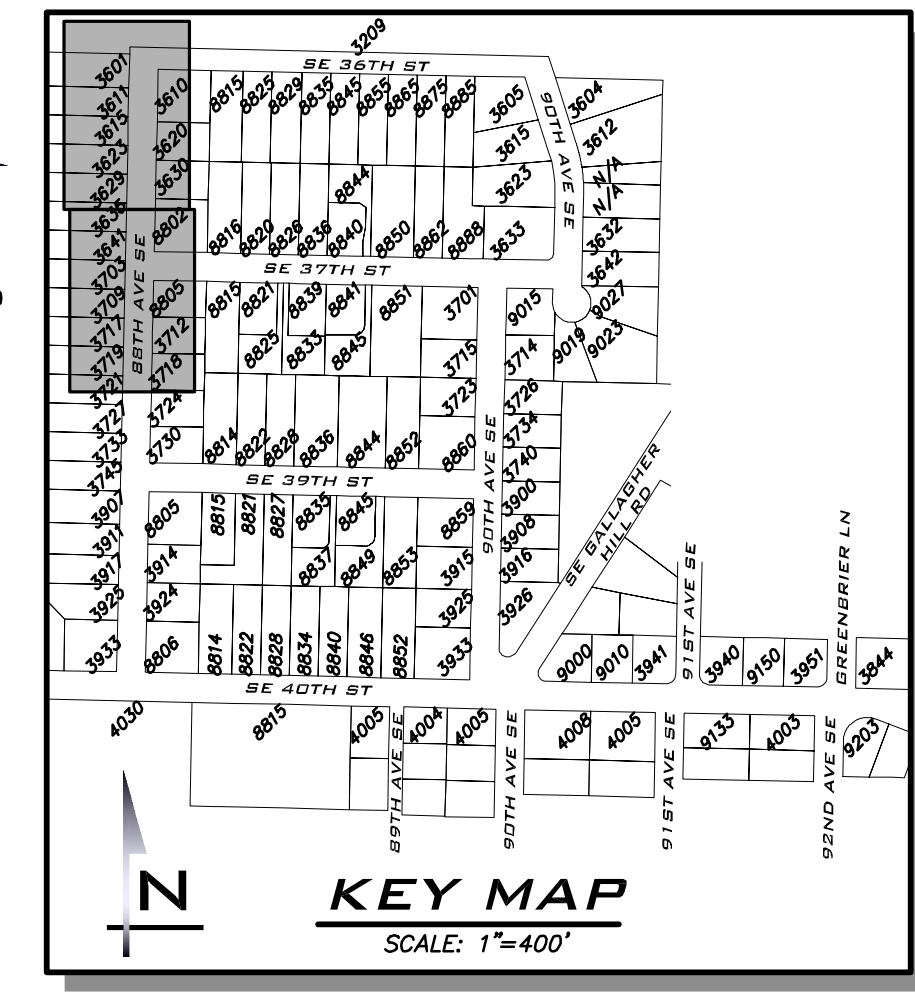
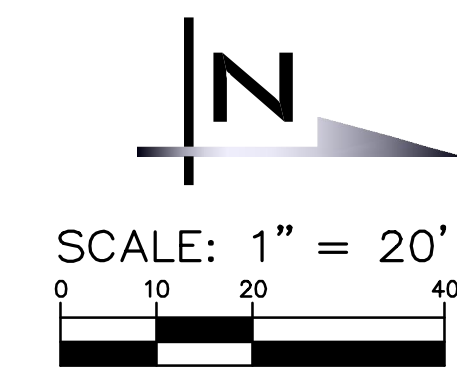


3/14/22

JOB NUMBER:
21-303

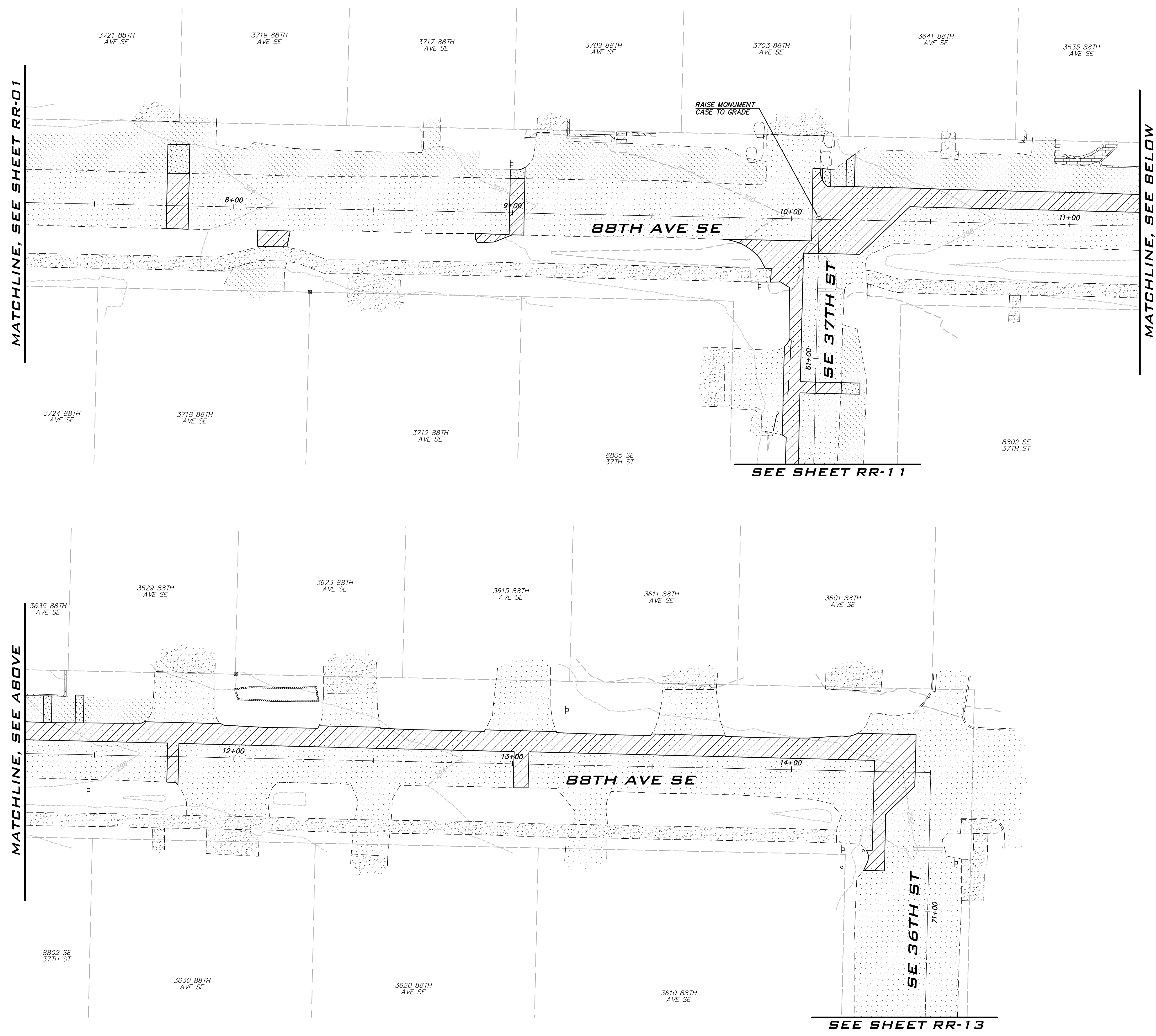
SHEET NAME:
RR-01

SHT **43** OF **59**



BLUELINE
 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
 P: 425.216.4051 F: 425.216.4052
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SCALE:
 AS NOTED
 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 3/14/2022



MATCHLINE, SEE SHEET RR-01

MATCHLINE, SEE BELOW

MATCHLINE, SEE ABOVE

SEE SHEET RR-11

SEE SHEET RR-13

LEGEND

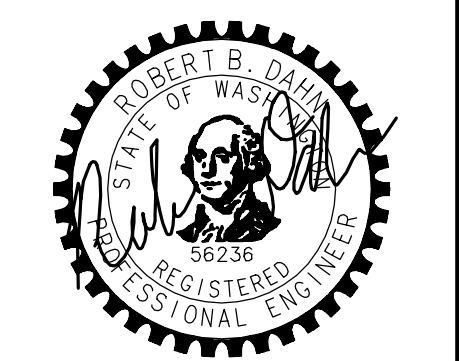
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	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	SIDEWALK, CURB AND GUTTER

- NOTES**
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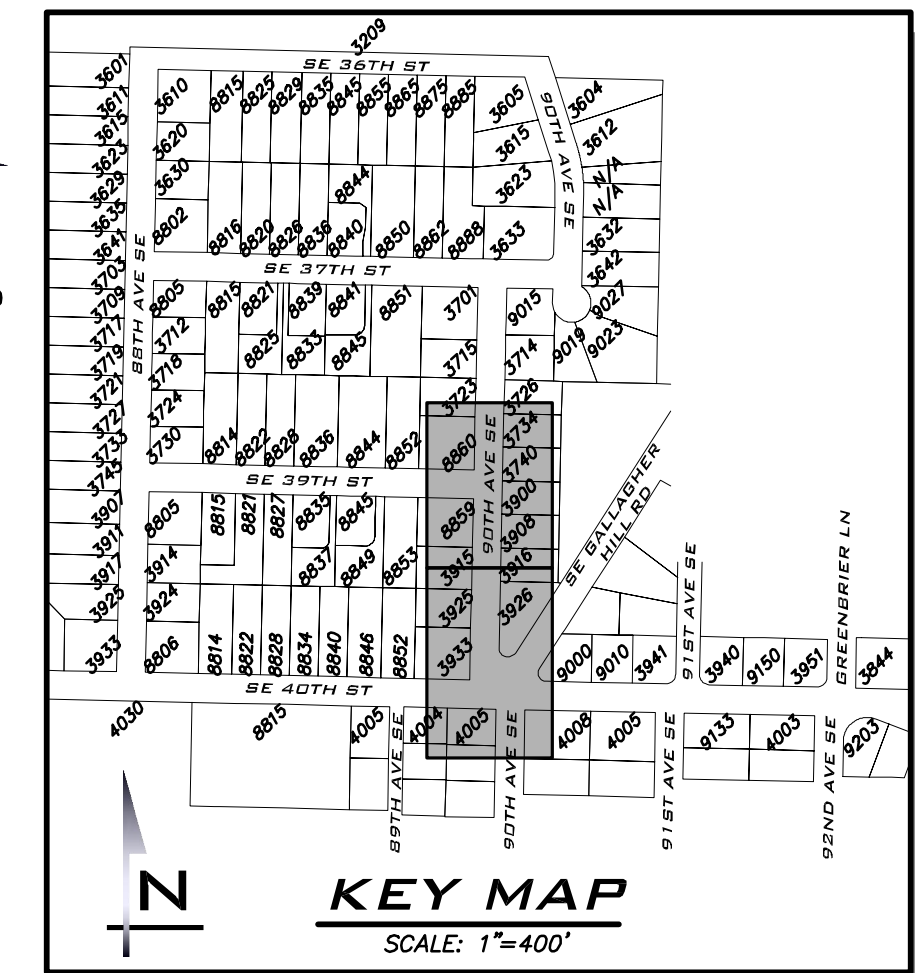
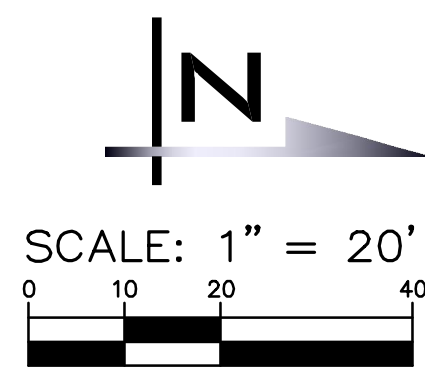
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NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
 88TH AVE SE
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT**
 CITY OF MERCER ISLAND WASHINGTON



3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
RR-02
 SHT **44** OF **59**



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 25 CENTRAL WAY, SUITE 400,
 KIRKLAND, WA 98033
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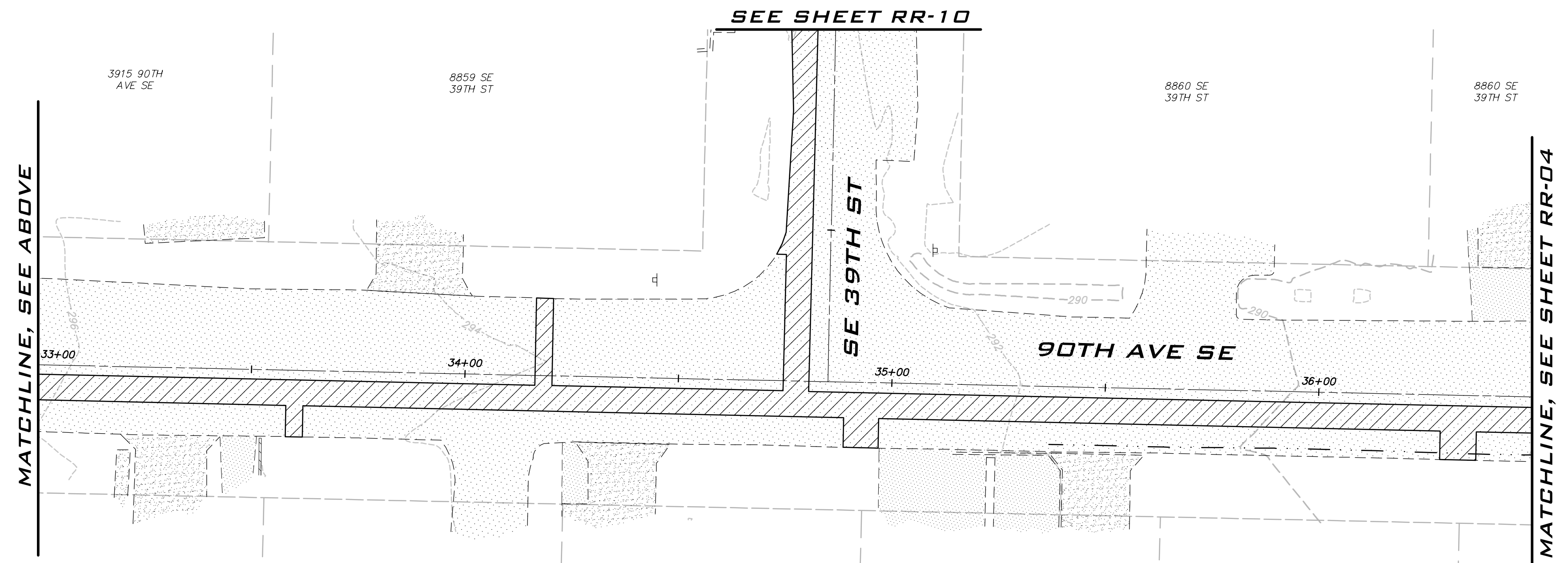
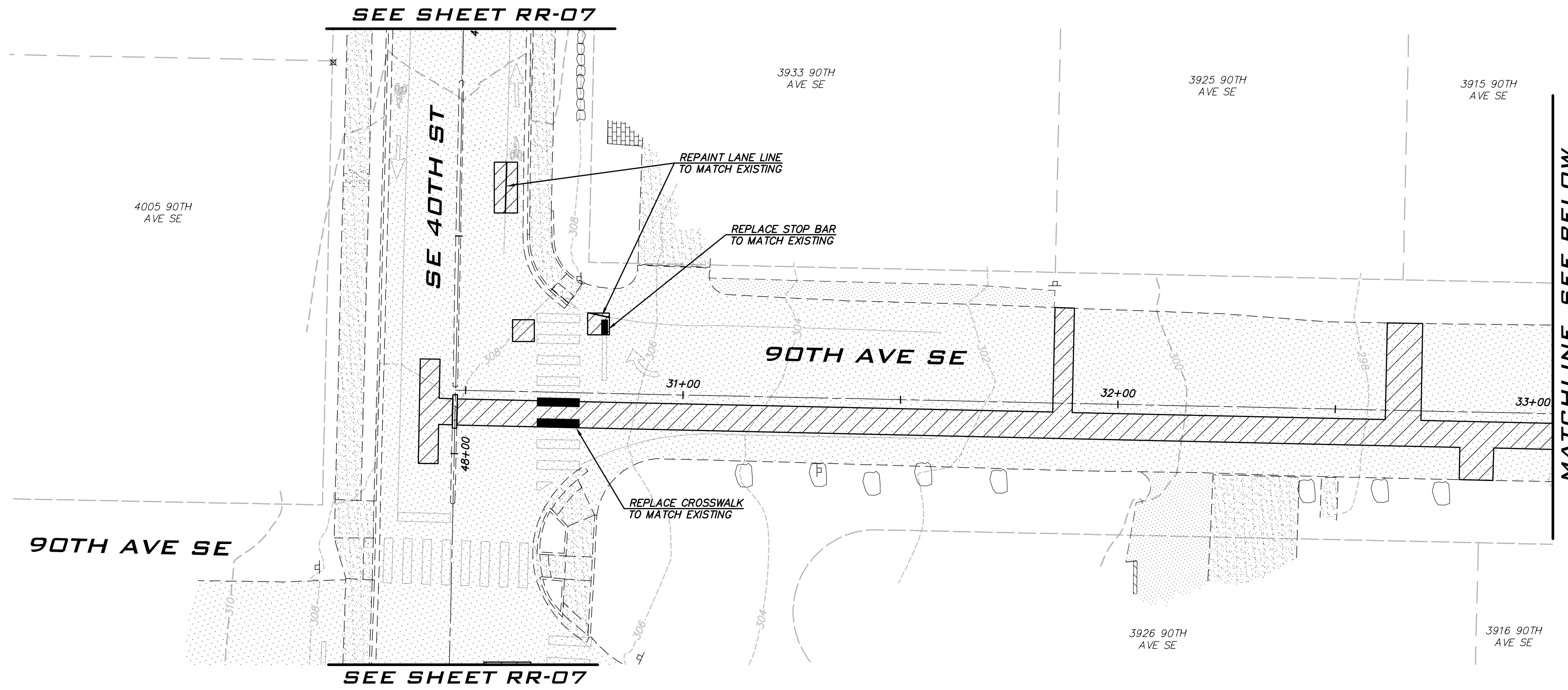
SCALE:
 AS NOTED

PROJECT MANAGER:
 ROB DAHN, PE

PROJECT ENGINEER:
 GRACE GARWIN, EIT

DESIGNER:
 CAROL DOGGETT

ISSUE DATE:
 3/14/2022



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

NOTES

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NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
 90TH AVE SE
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON**

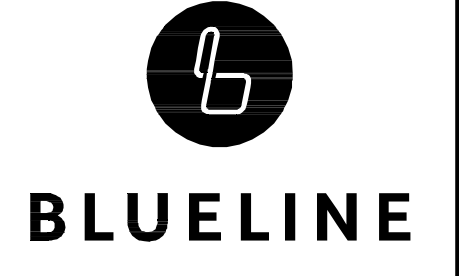
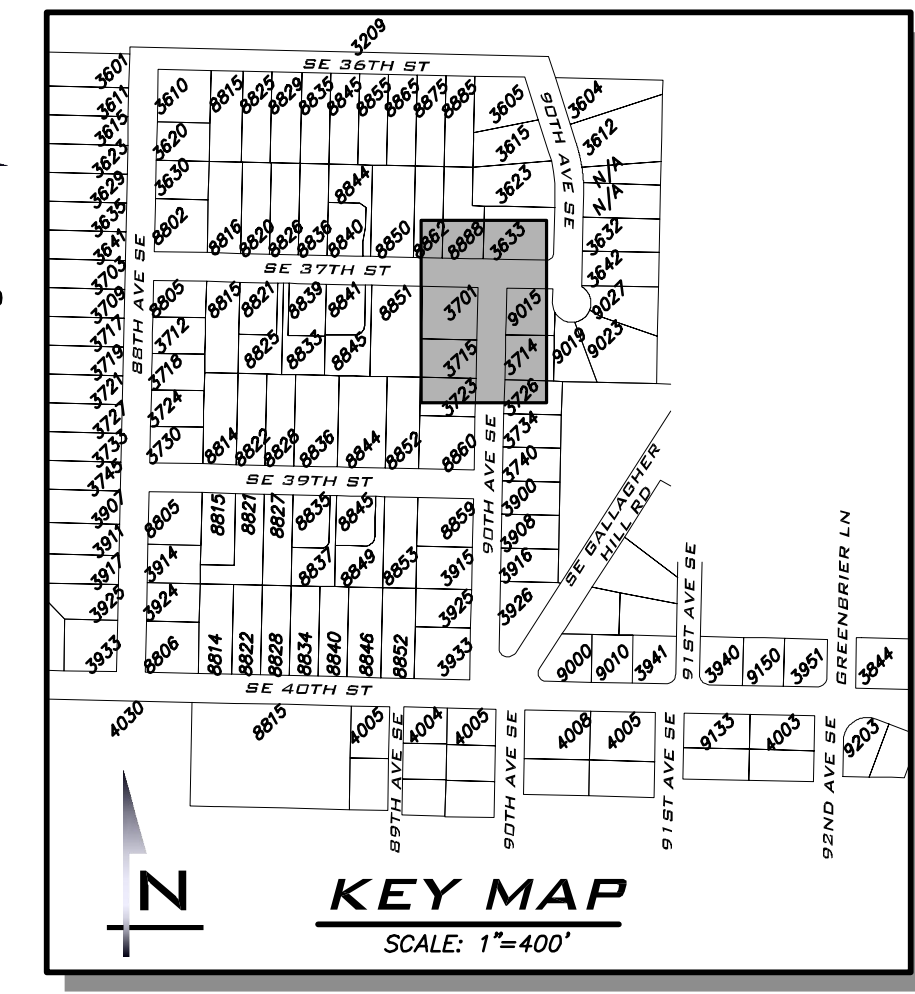
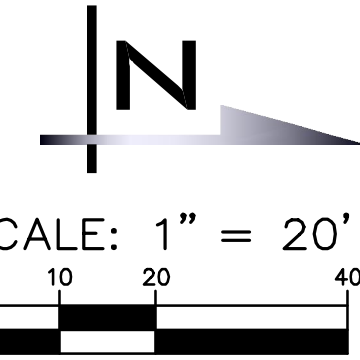
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JOB NUMBER:
21-303

SHEET NAME:
RR-03

SHT **45** OF **59**

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

SCALE:
AS NOTED

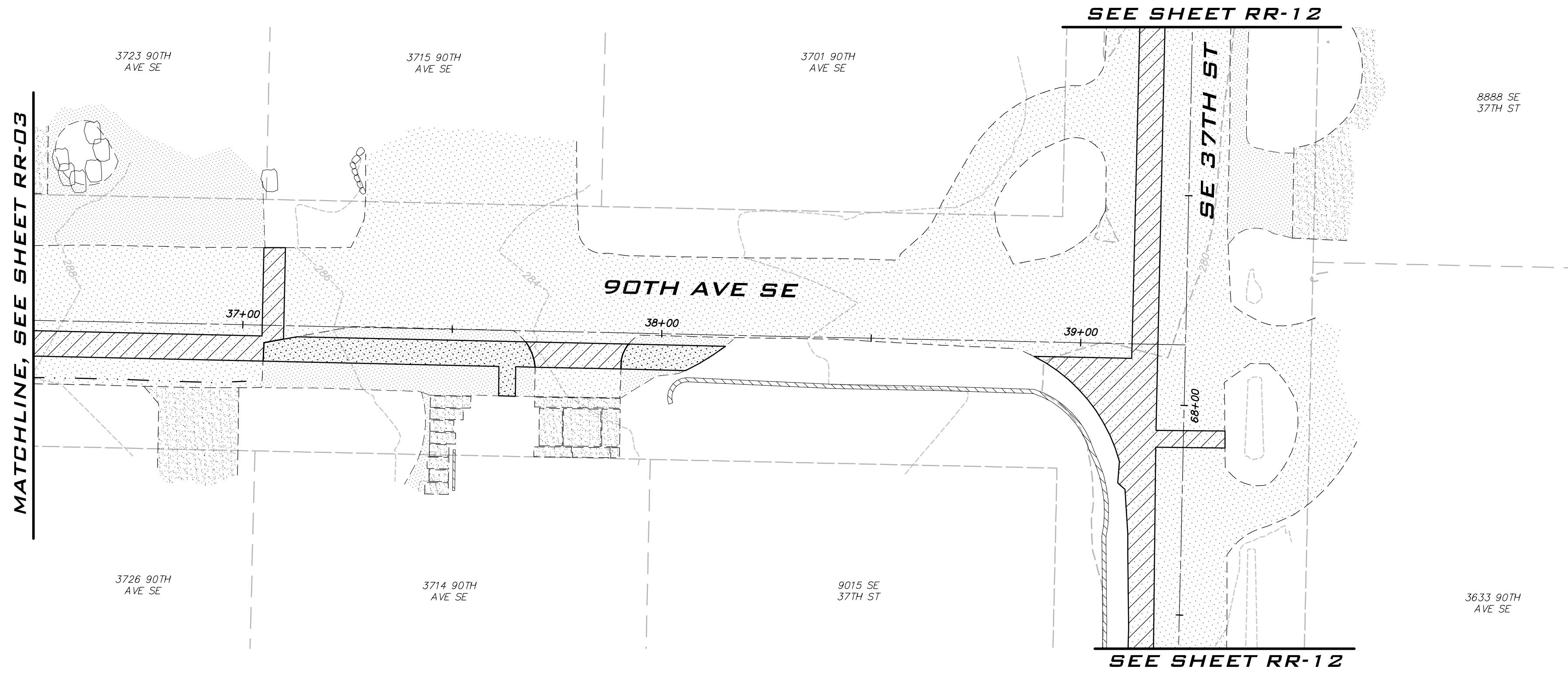
PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS



LEGEND

	CSTC
	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	SIDEWALK, CURB AND GUTTER

NOTES

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ROAD RESTORATION PLAN -
90TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



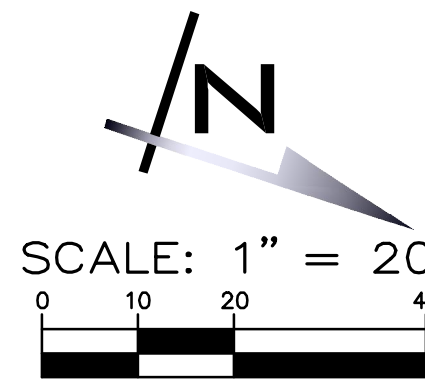
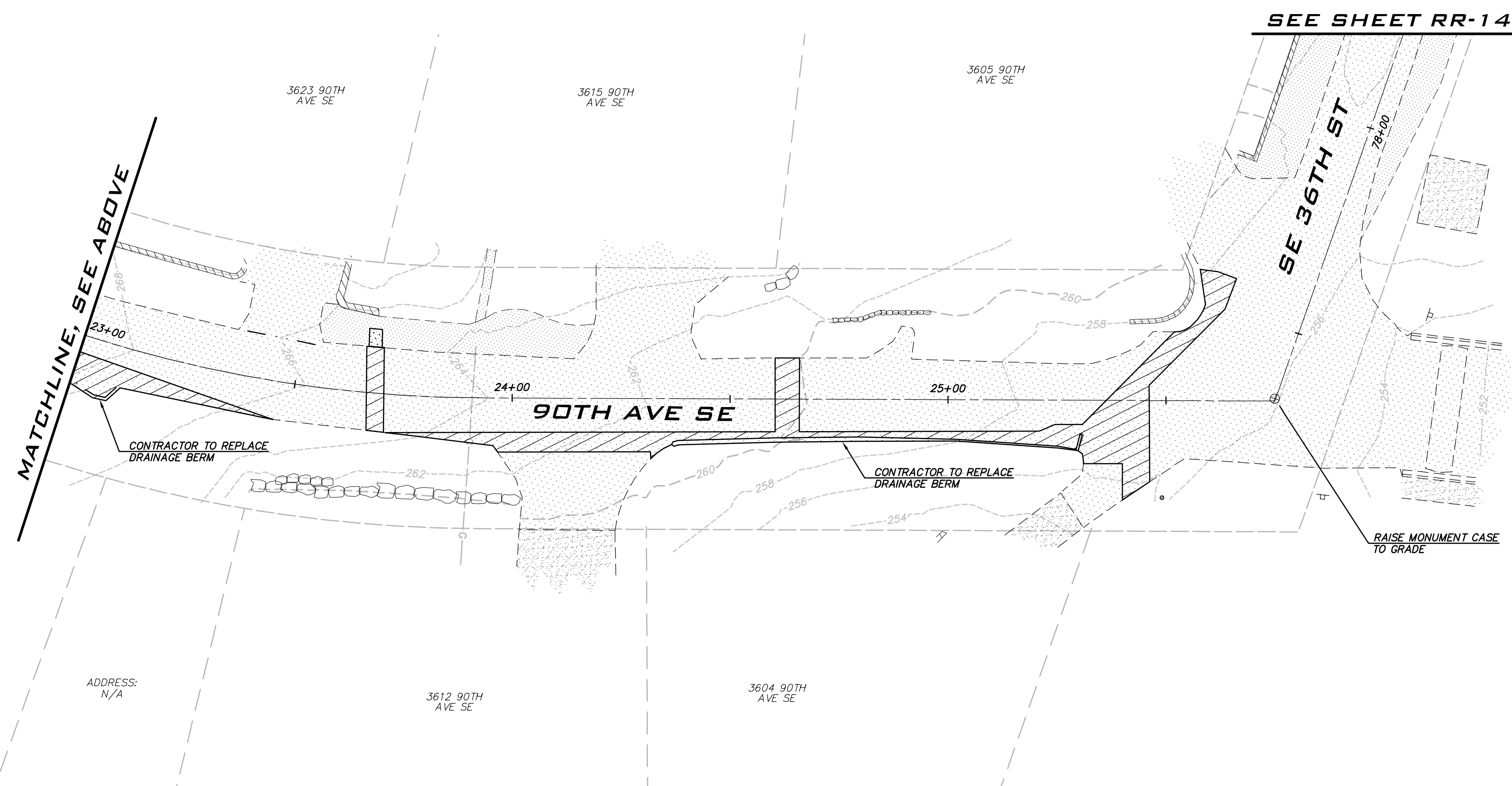
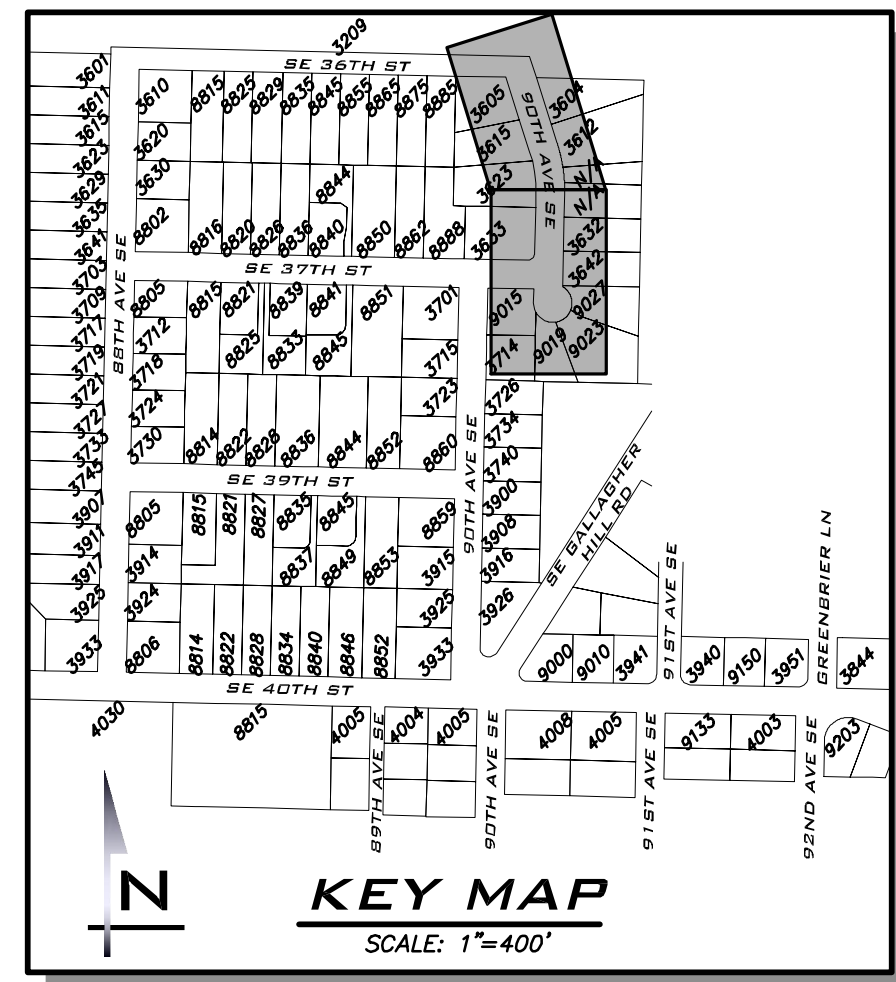
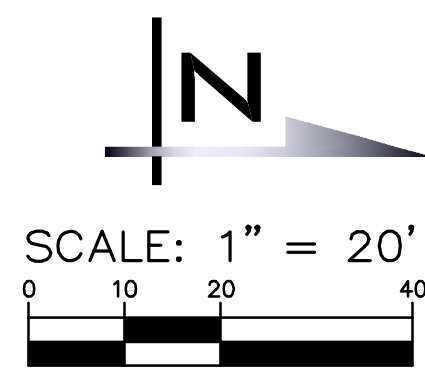
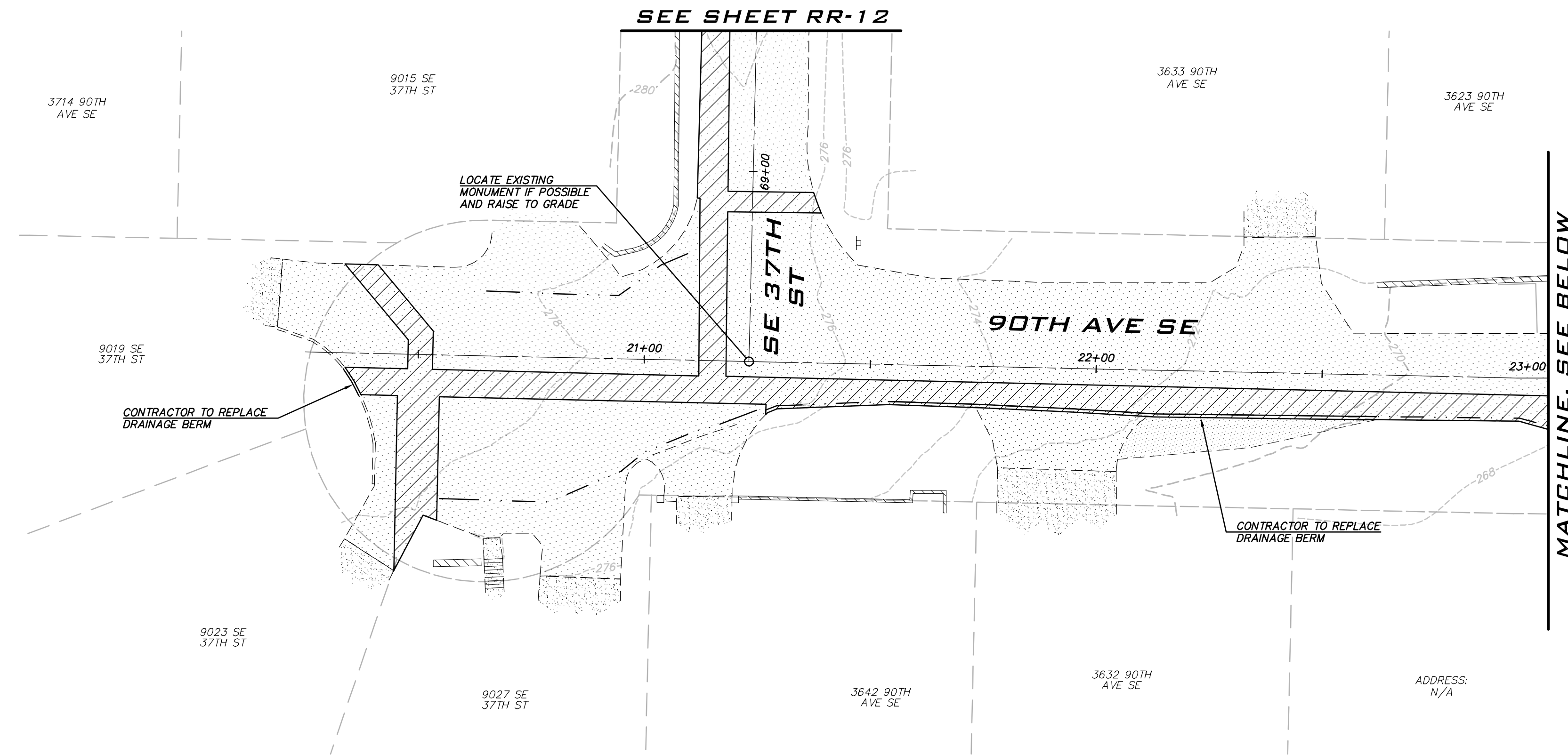
3/14/22

JOB NUMBER:
21-303

SHEET NAME:
RR-04

SHT **46** OF **59**

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LEGEND

	CSTC
	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	SIDEWALK, CURB AND GUTTER

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25 CENTRAL WAY, SUITE 400,
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P: 425.216.4051 F: 425.216.4052
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SCALE:
AS NOTED

PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
GRACE GARWIN, EIT

DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
90TH AVE SE
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON**

3/14/22

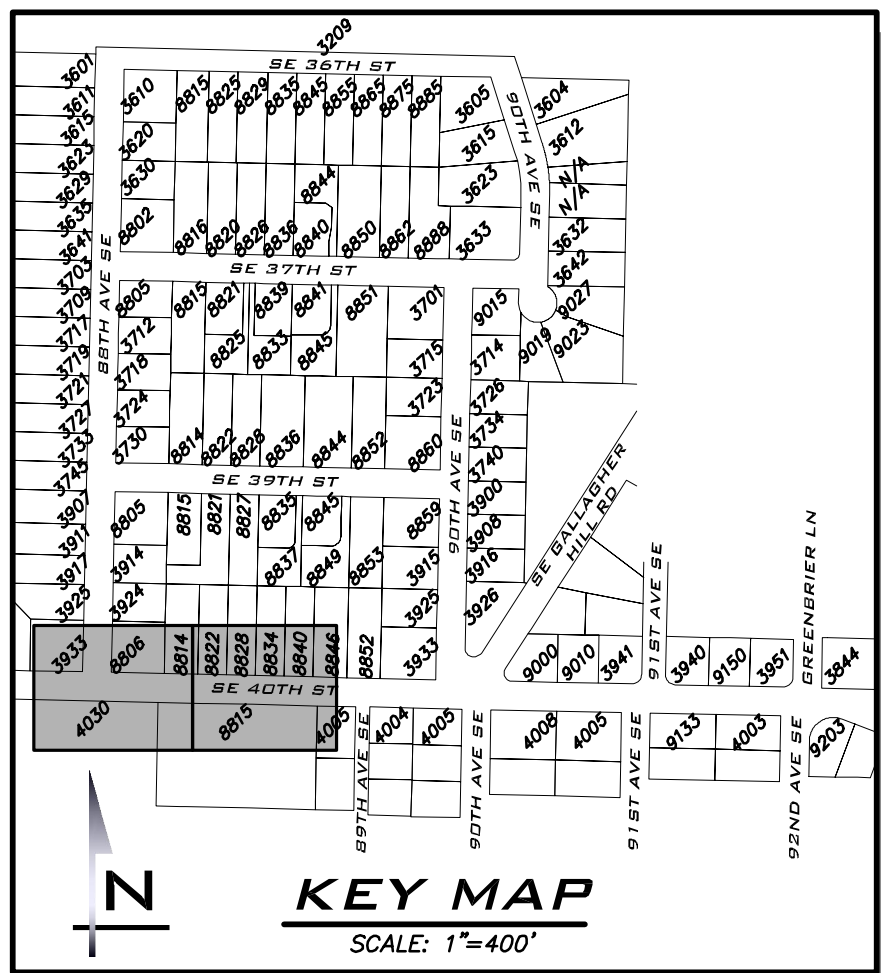
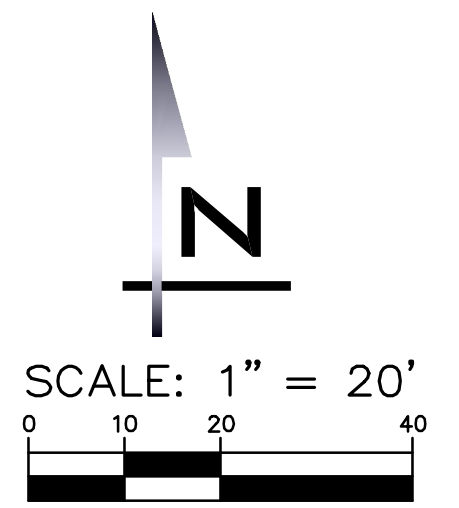
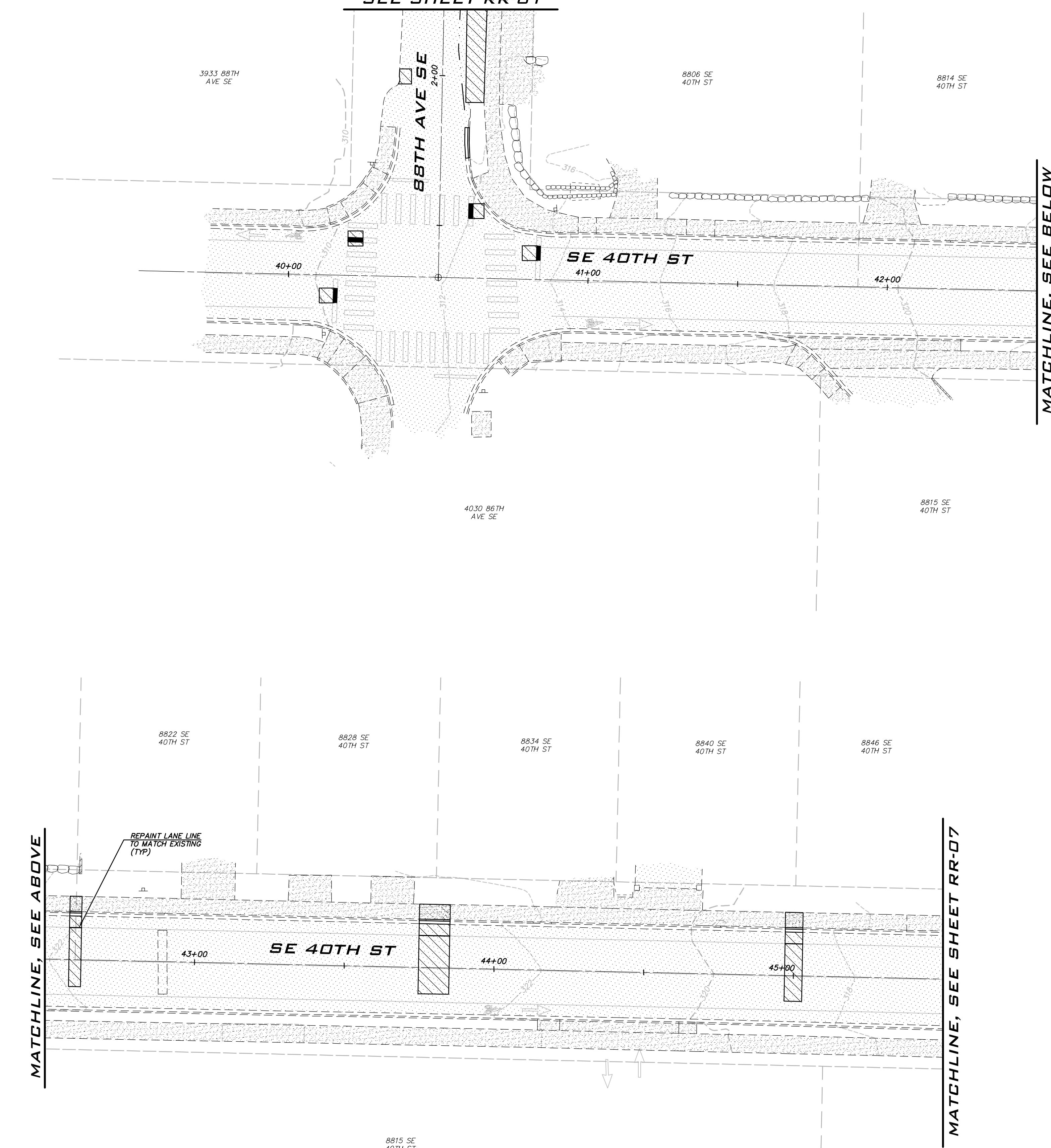
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SHEET NAME:
RR-05

SHT **47** OF **59**

22-54
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SEE SHEET RR-01



[Dotted pattern]	CSTC
[Diagonal hatching]	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
[Cross-hatching]	SIDEWALK, CURB AND GUTTER

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GRACE GARWIN, EIT

DESIGNER:
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ISSUE DATE:
3/14/2022

NO	DATE	BY

**ROAD RESTORATION PLAN -
SE 40TH ST**

**2022 WATER SYSTEM
IMPROVEMENTS PROJECT**

CITY OF MERCER ISLAND WASHINGTON

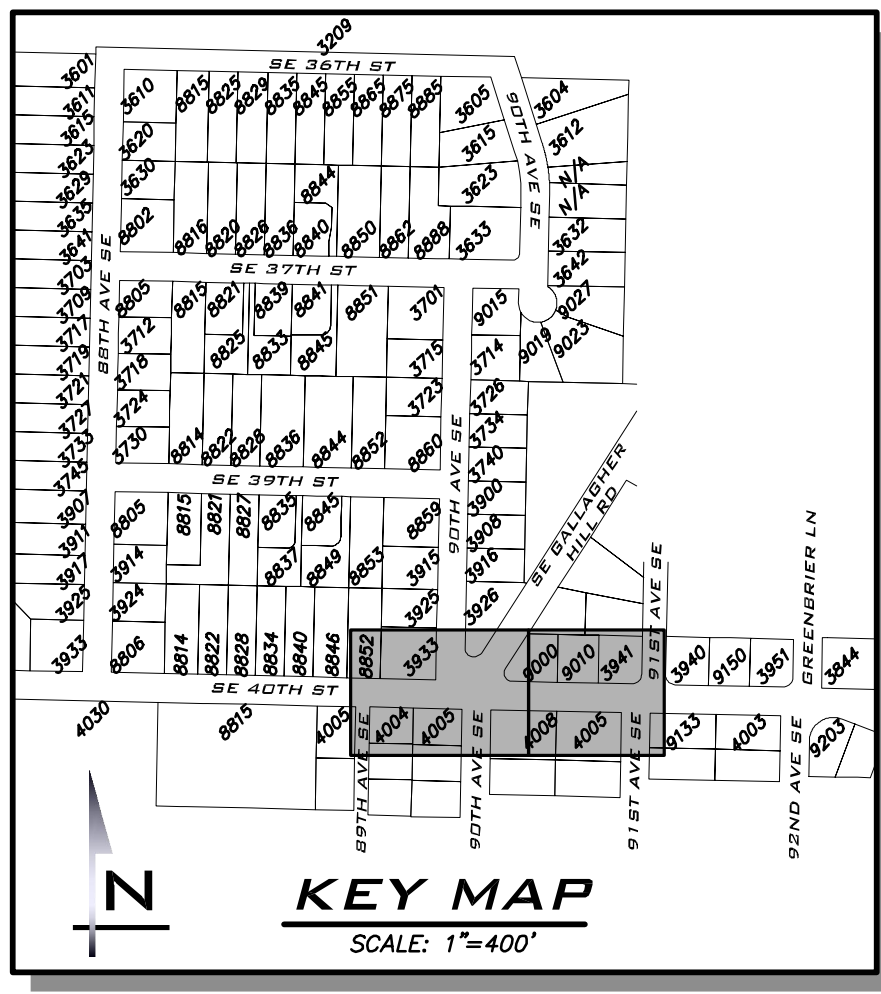
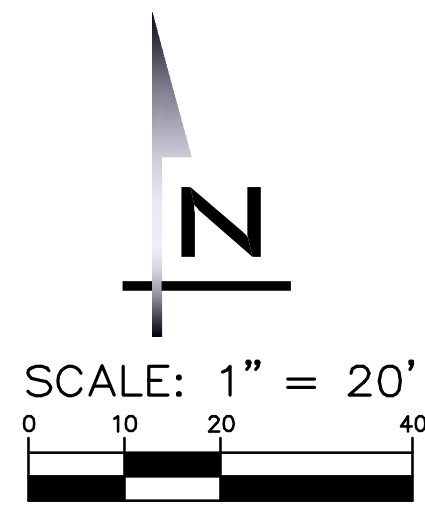
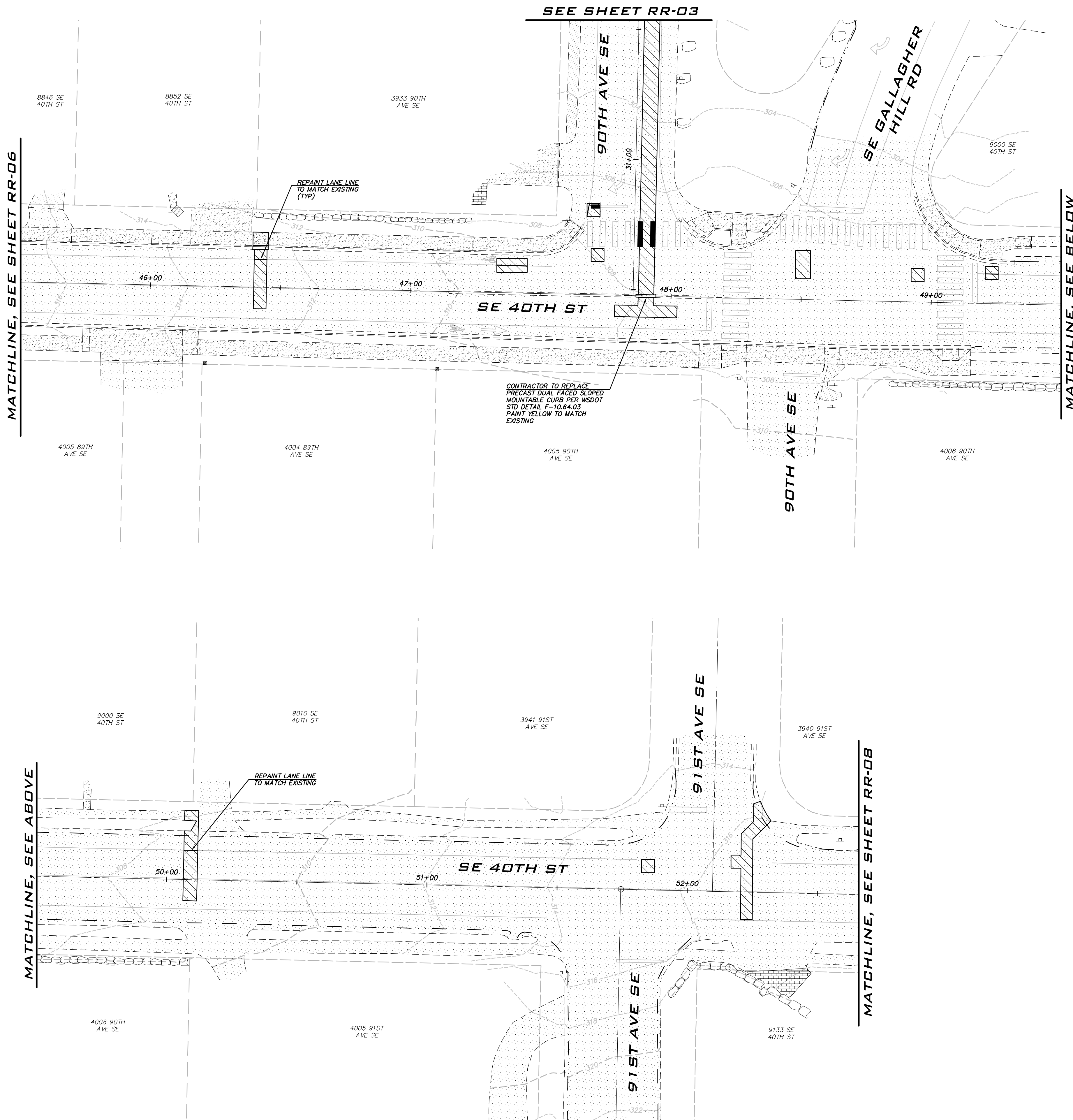
ROBERT B. DAHN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
56236

3/14/22

JOB NUMBER:
21-303

SHEET NAME:
RR-06

SHT **48** OF **59**



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PROJECT ENGINEER:
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DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS

ROAD RESTORATION PLAN -
SE 40TH ST

2022 WATER SYSTEM
IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

NOTES

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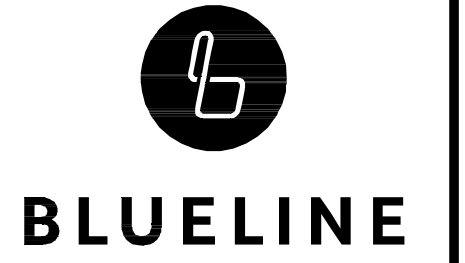
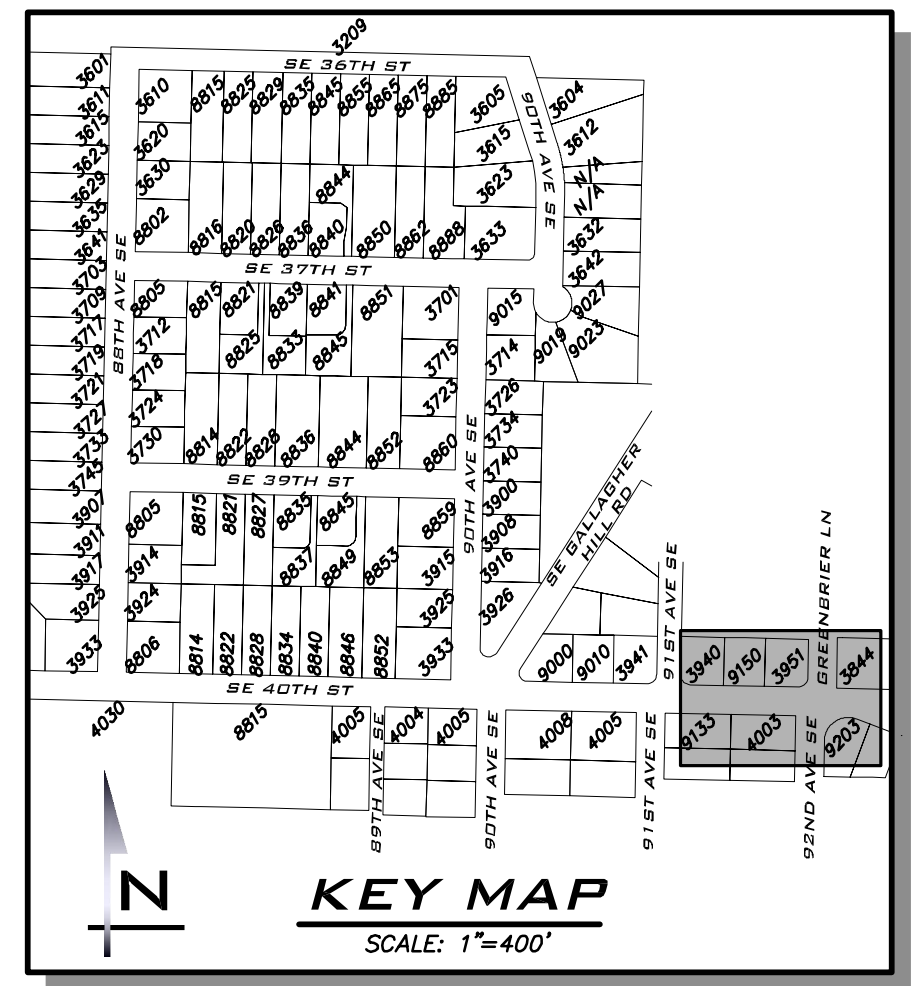
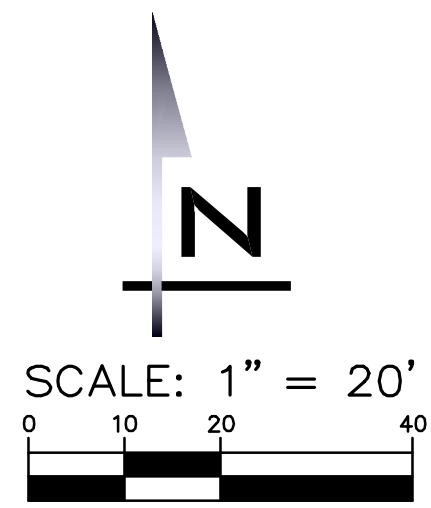


3/14/22

JOB NUMBER:
21-303

SHEET NAME:
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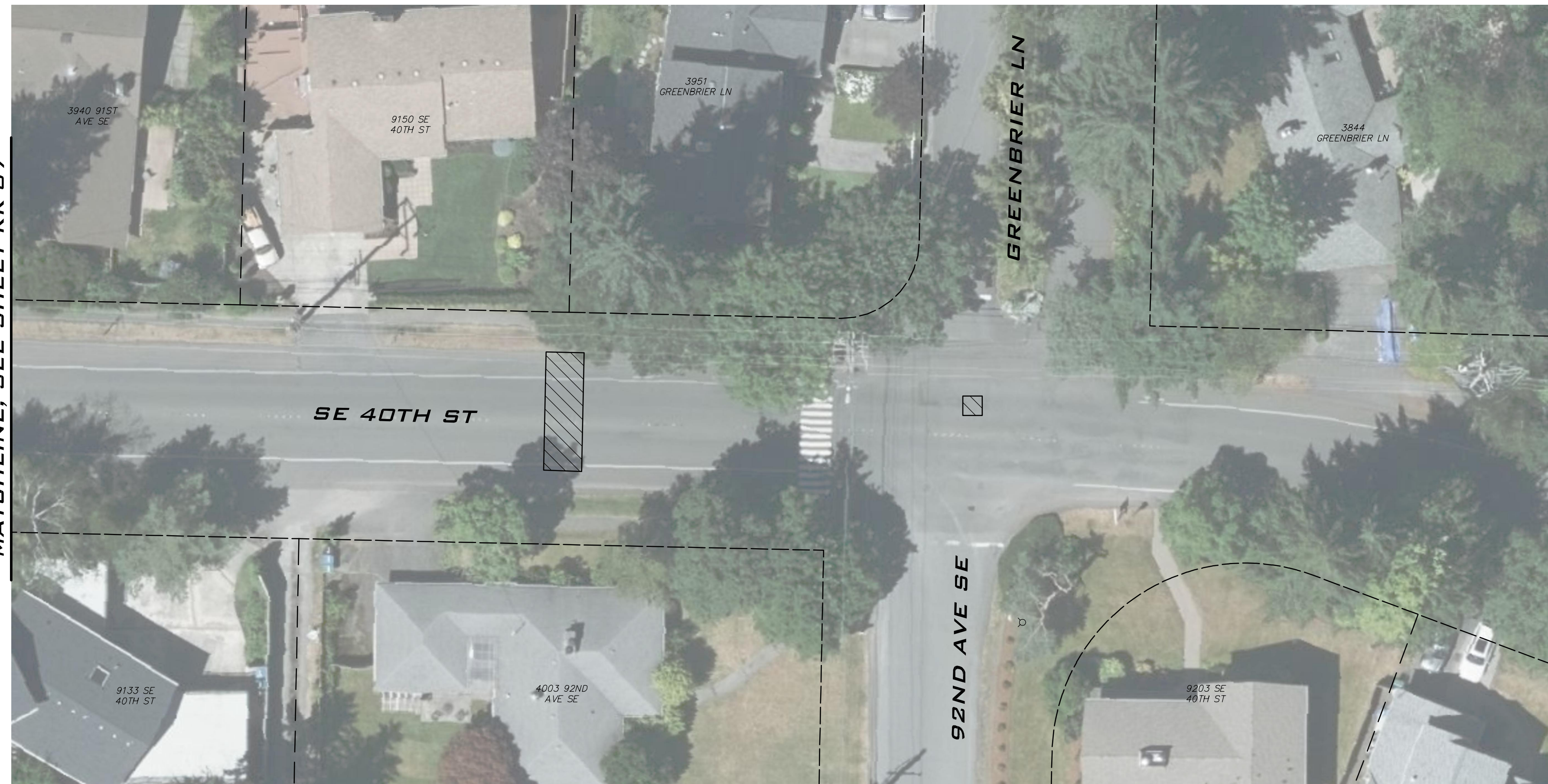
SHT **49** OF **59**



25 CENTRAL WAY, SUITE 400,
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PROJECT MANAGER:
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DESIGNER:
CAROL DOGGETT
ISSUE DATE:
3/14/2022

MATCHLINE, SEE SHEET RR-07



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

NOTES

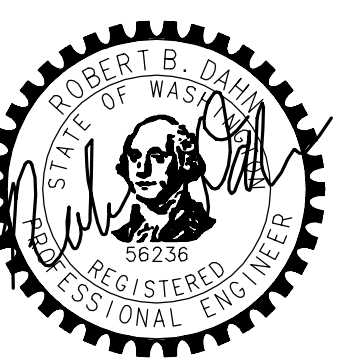
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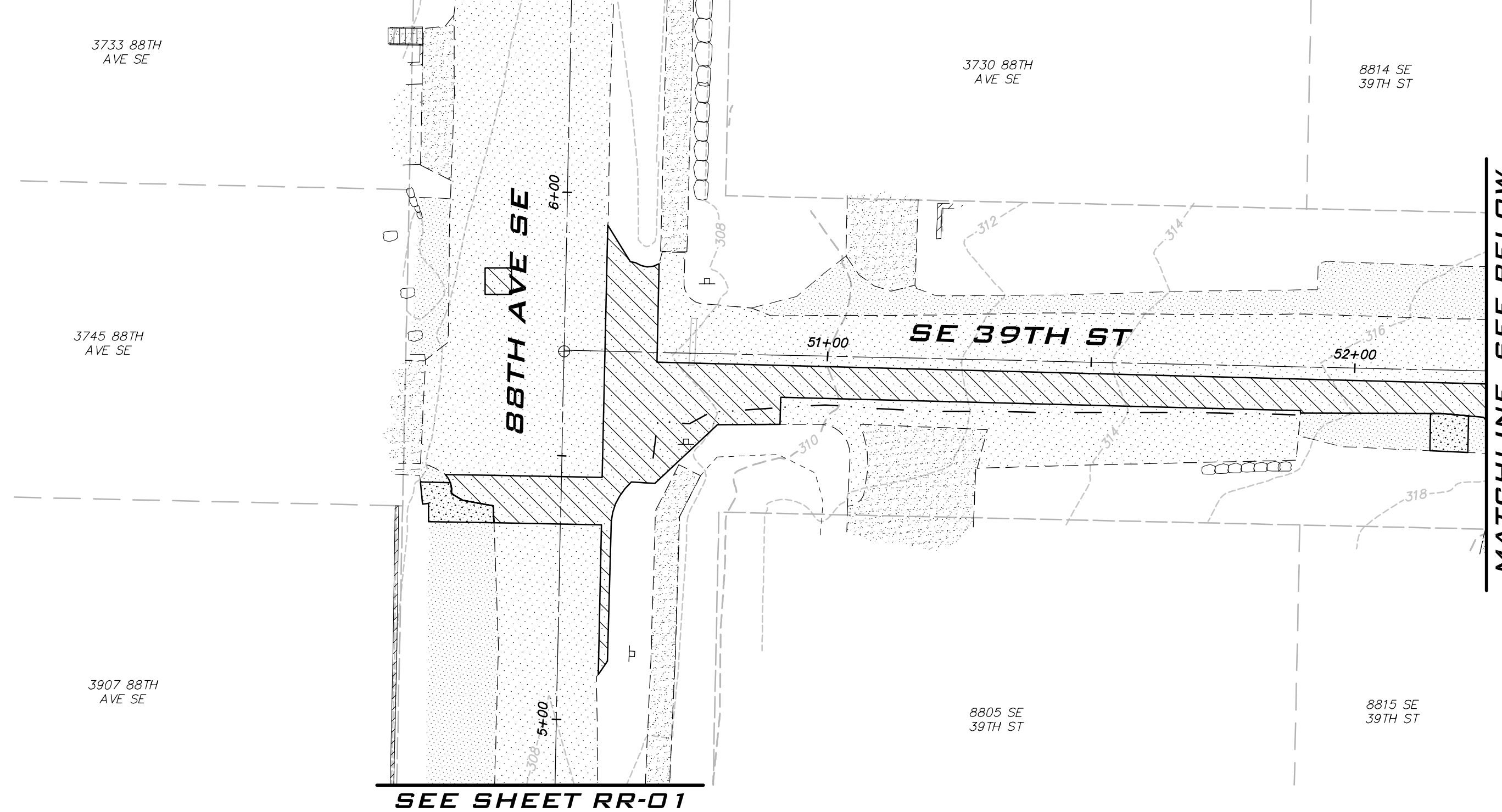
ROAD RESTORATION PLAN -
SE 40TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON



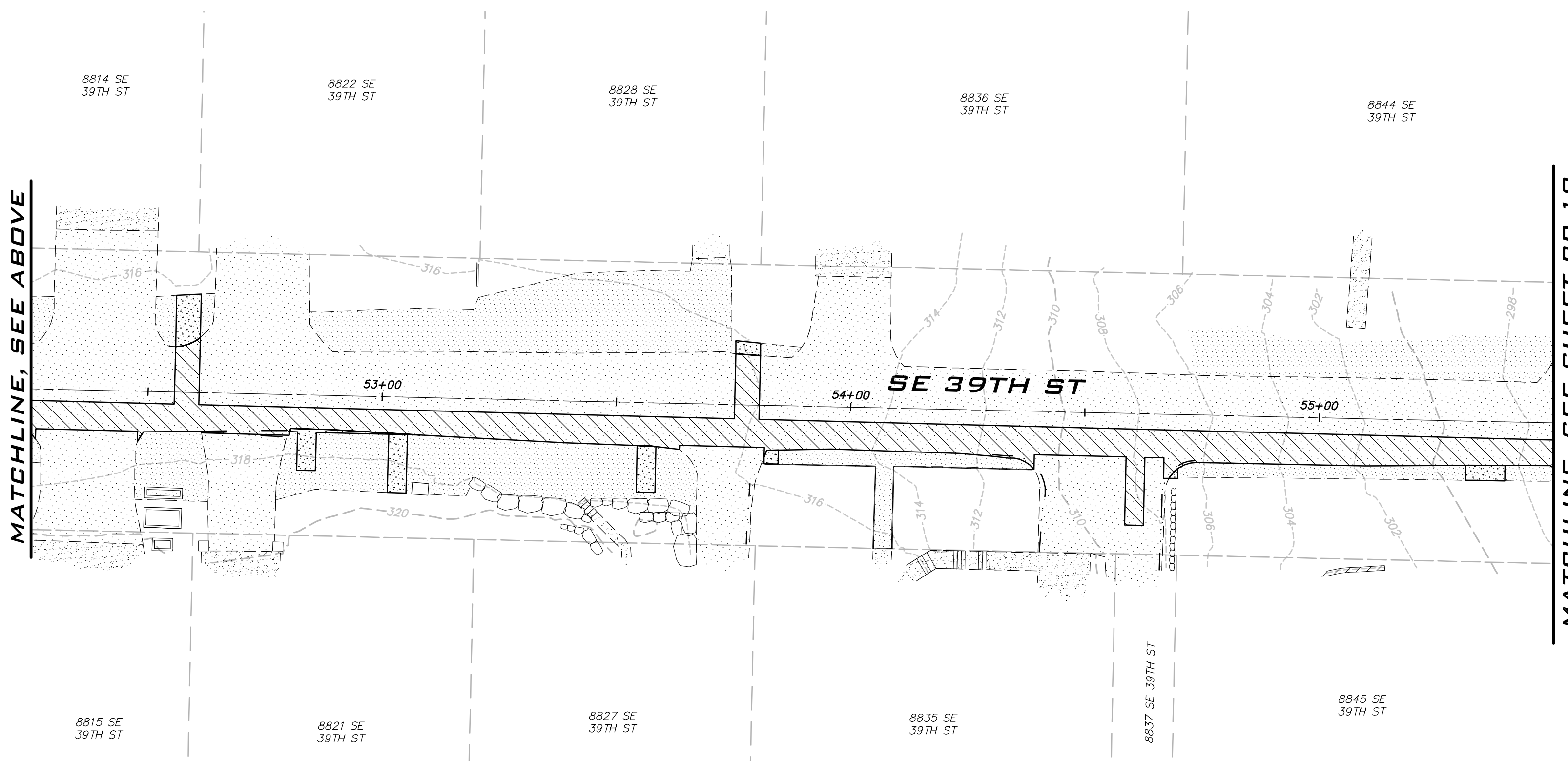
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21-303
SHEET NAME:
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SEE SHEET RR-01

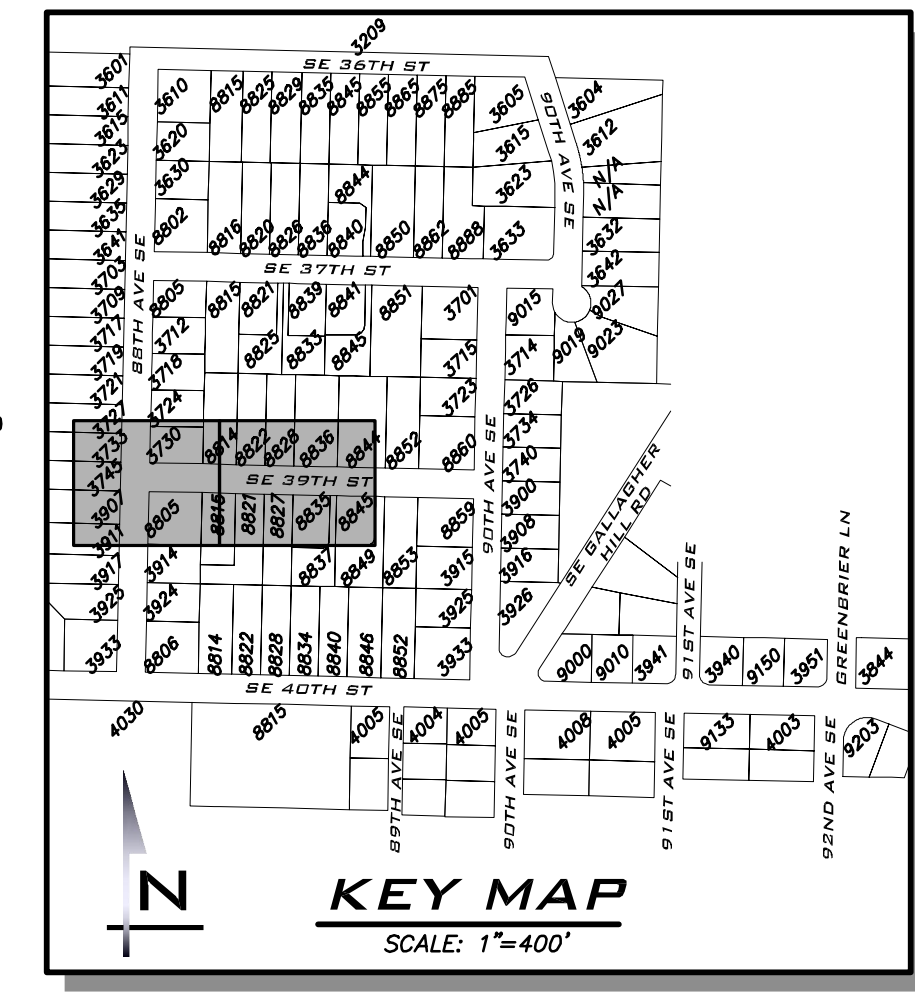
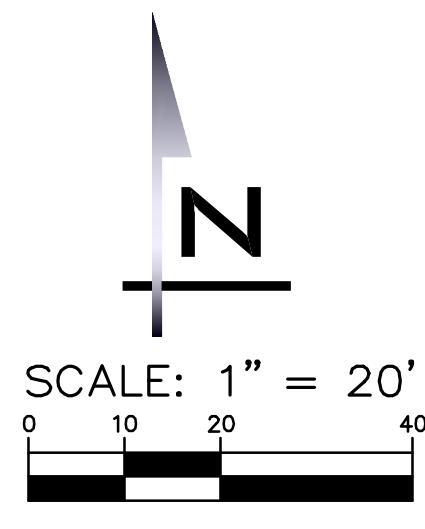


SEE SHEET RR-01



MATCHLINE, SEE ABOVE

MATCHLINE, SEE SHEET RR-10



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

NO	DATE	BY	REVISIONS

ROAD RESTORATION PLAN -
SE 39TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

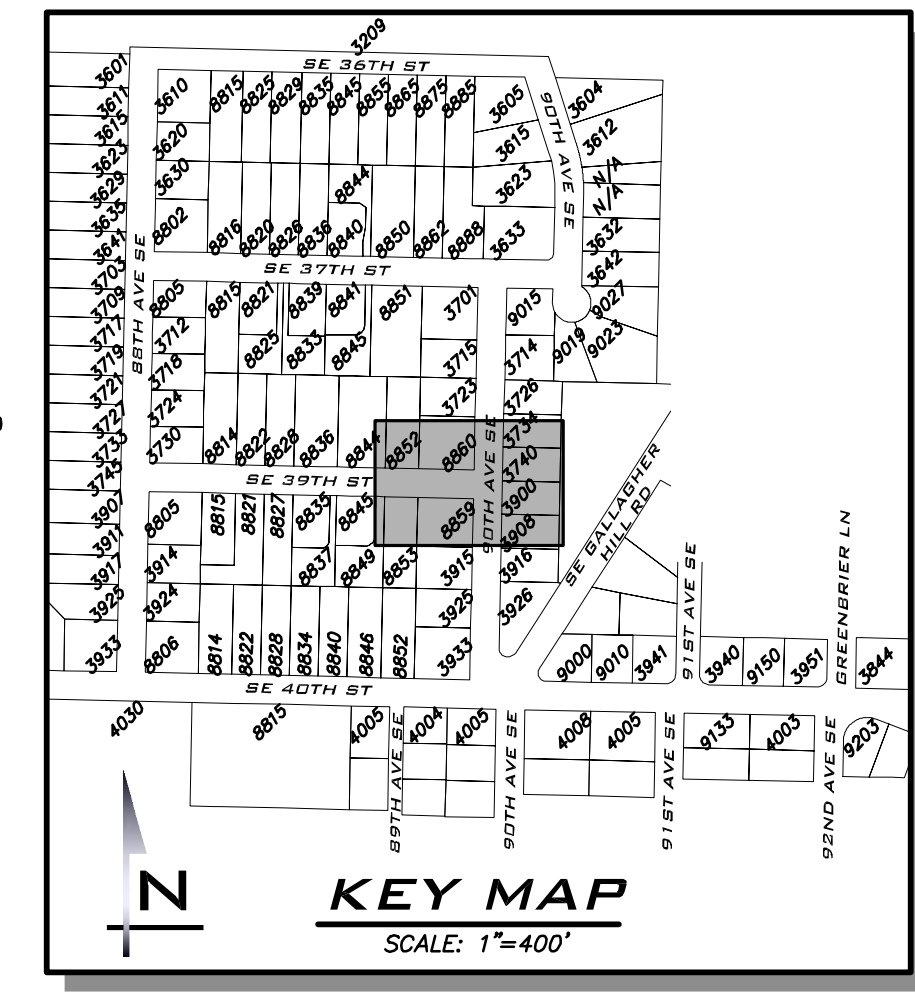
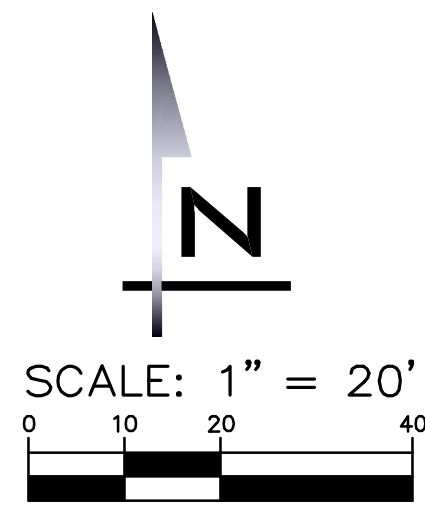
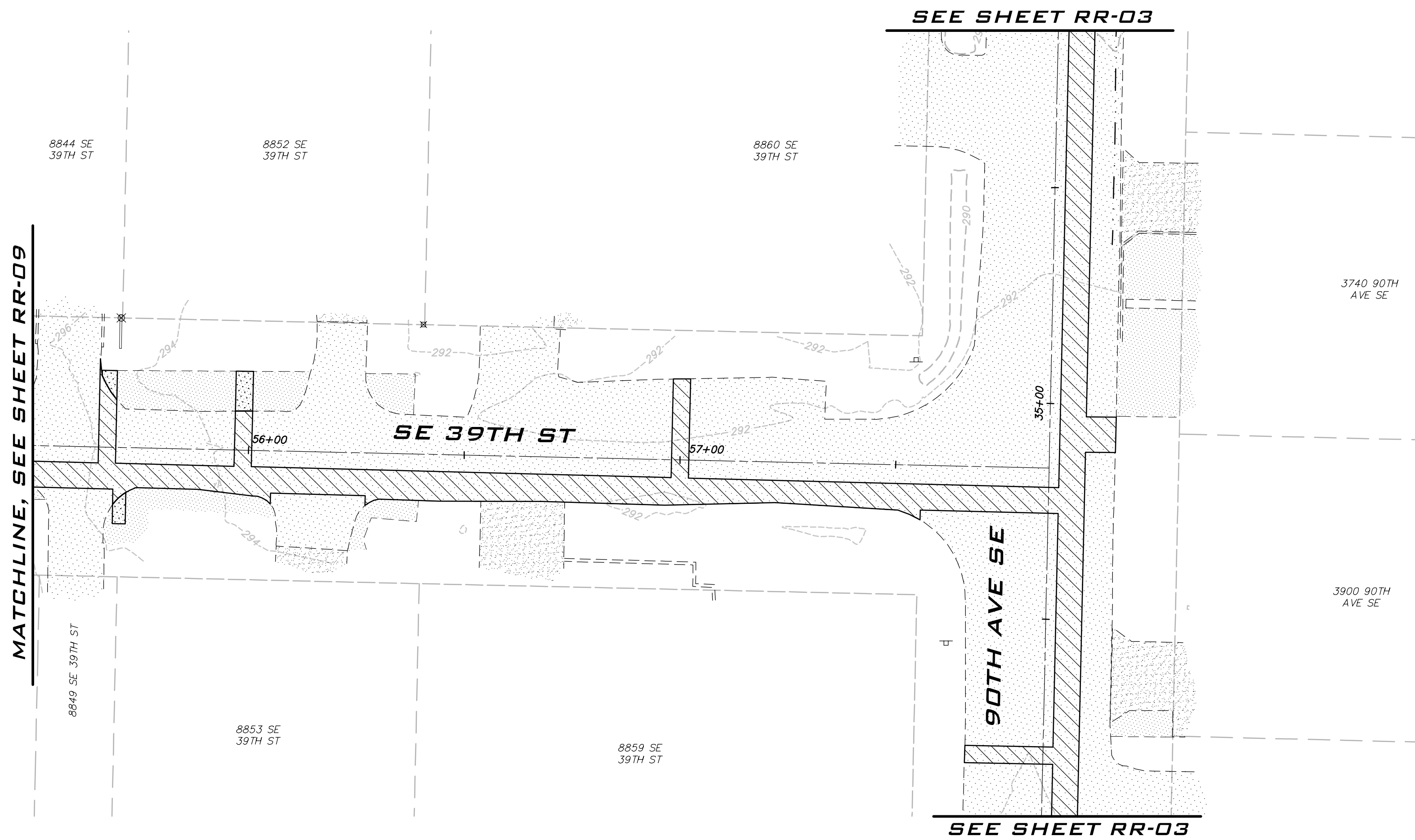
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3/14/22
JOB NUMBER:
21-303
SHEET NAME:
RR-09
SHT **51** OF **59**



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 25 CENTRAL WAY, SUITE 400,
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 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 3/14/2022

NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
 SE 39TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON**

LEGEND

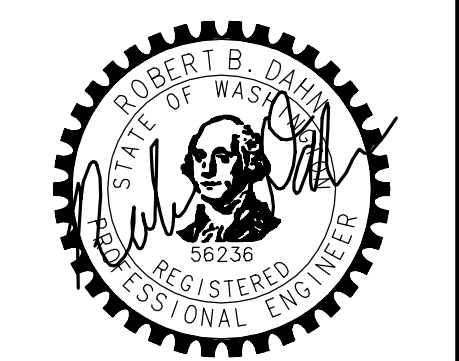
- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

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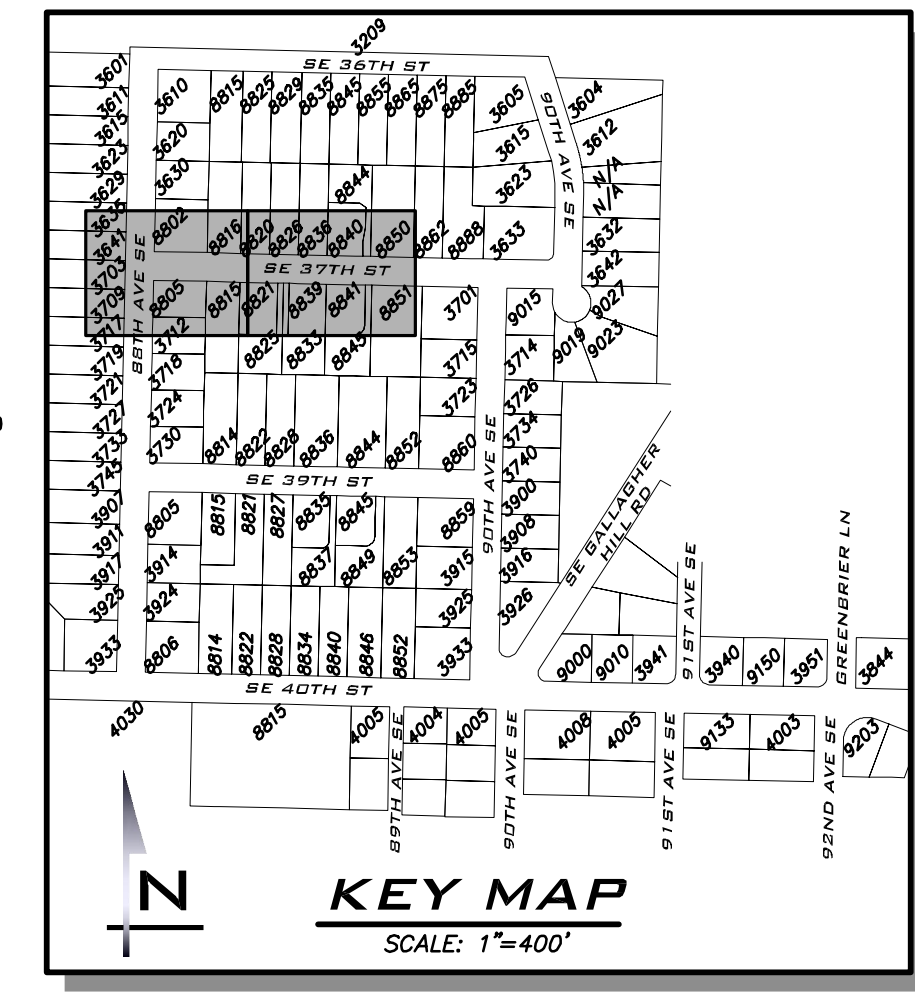
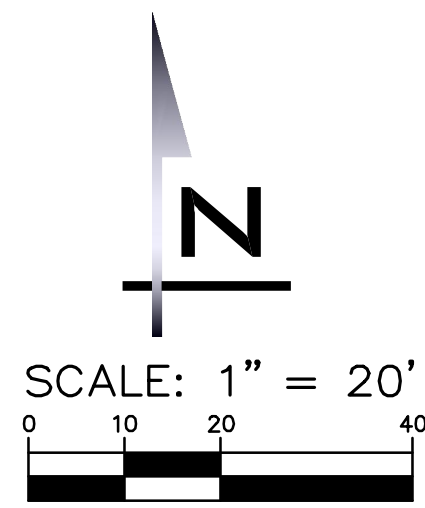
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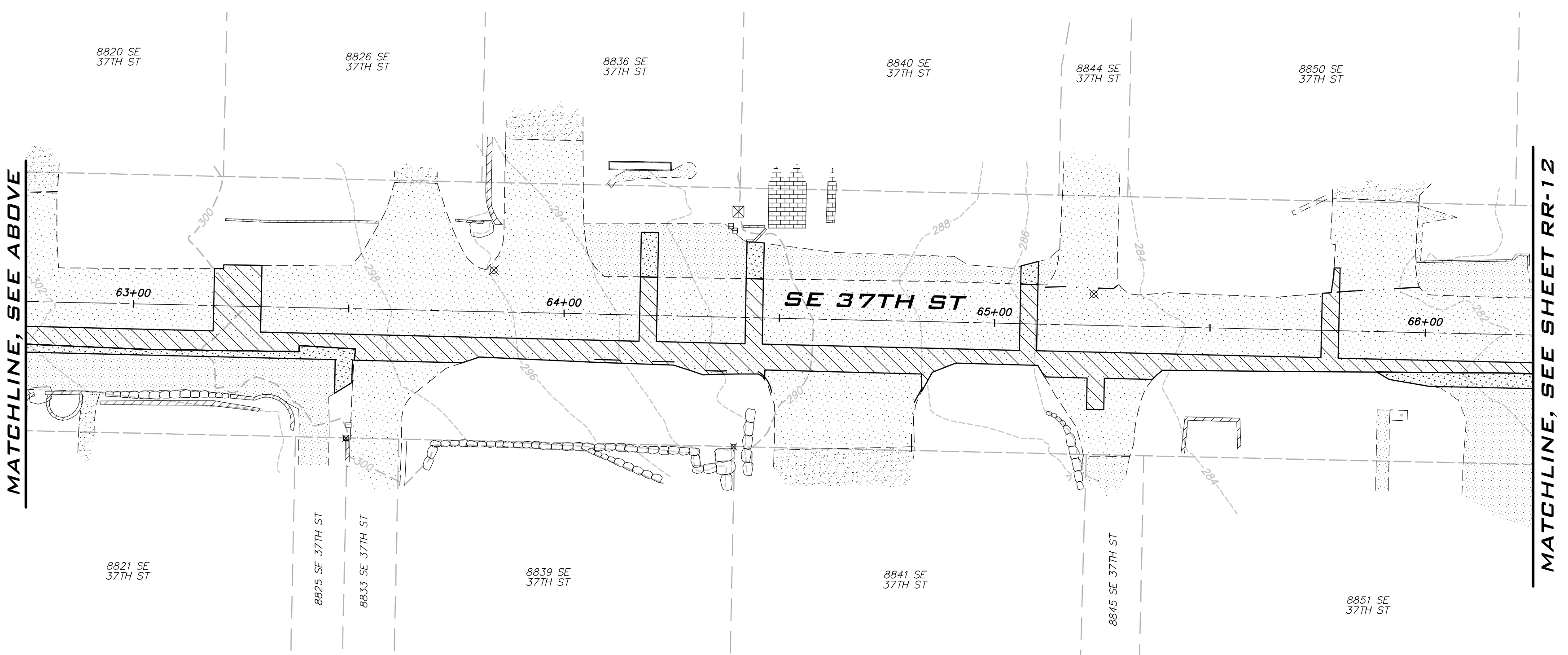
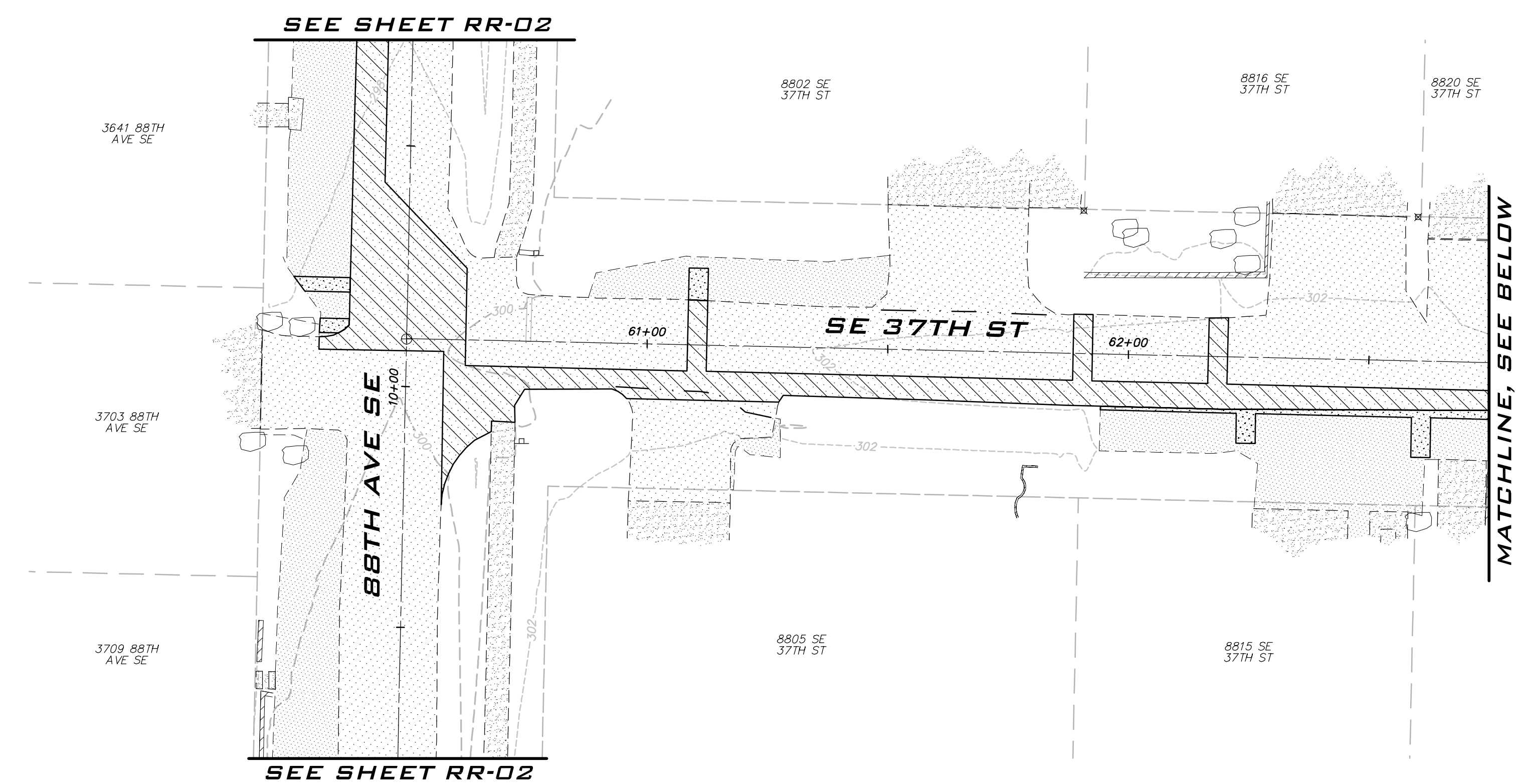


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 JOB NUMBER:
21-303
 SHEET NAME:
RR-10
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SCALE:
AS NOTED
PROJECT MANAGER:
ROB DAHN, PE
PROJECT ENGINEER:
GRACE GARWIN, EIT
DESIGNER:
CAROL DOGGETT
ISSUE DATE:
3/14/2022



LEGEND

- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

NOTES

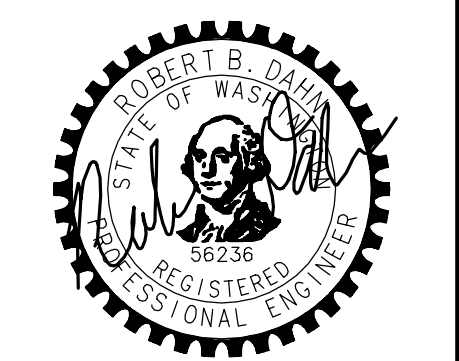
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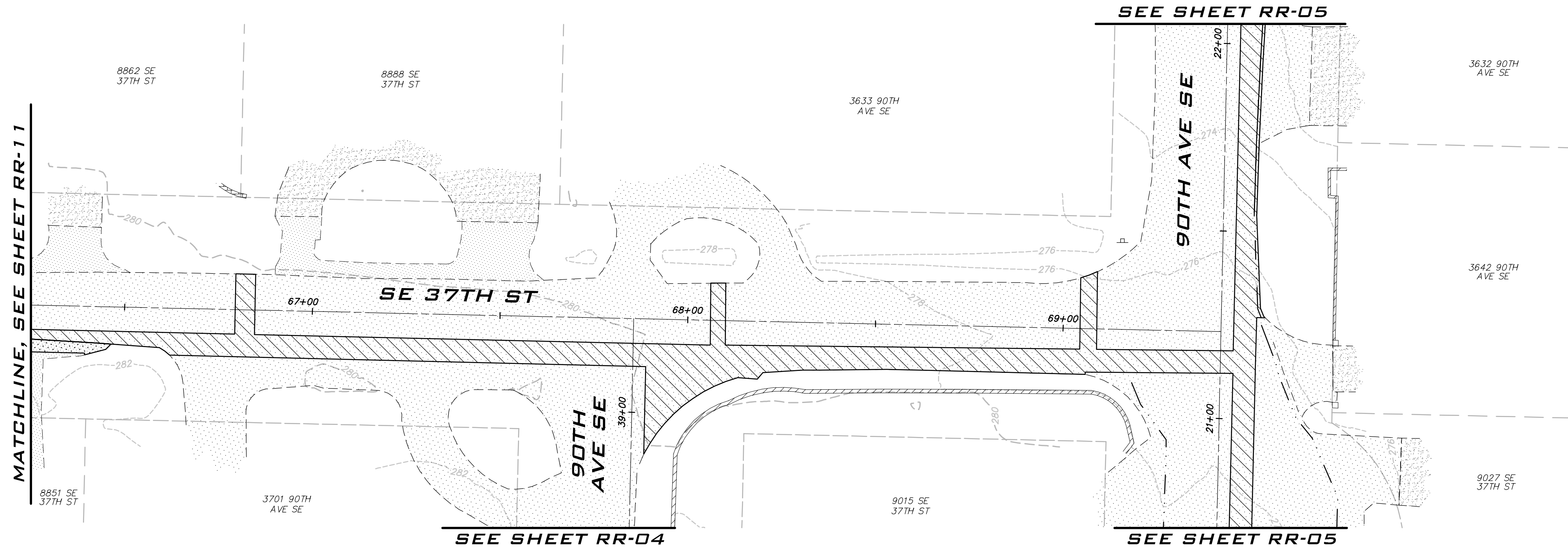
NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
SE 37TH ST
2022 WATER SYSTEM
IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON**



3/14/22
JOB NUMBER:
21-303
SHEET NAME:
RR-11
SHT **53** OF **59**

22-54
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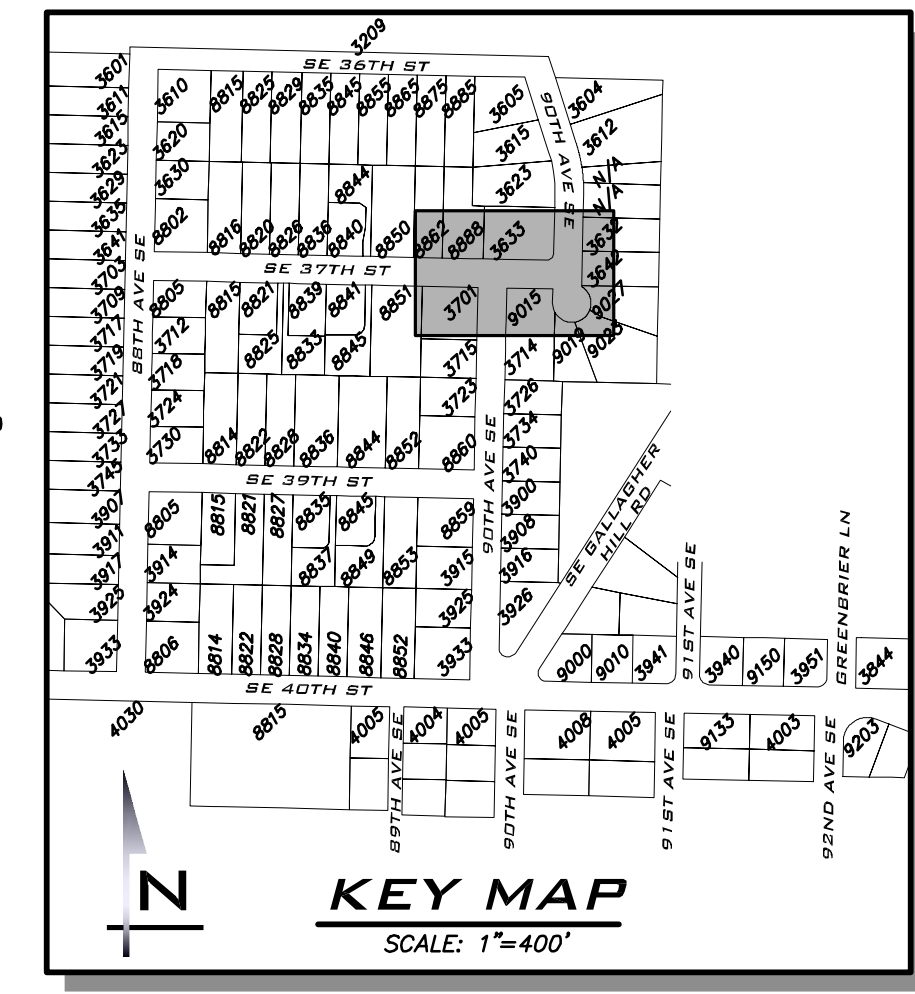
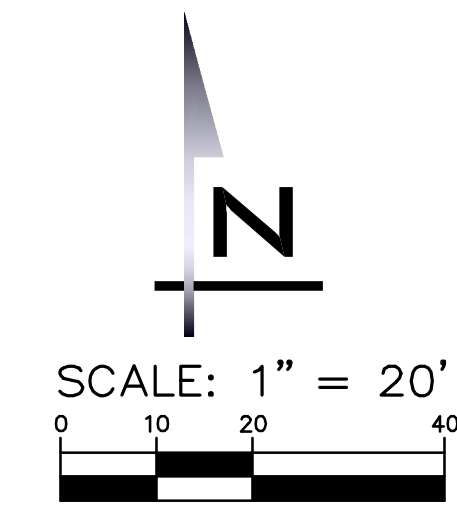



MATCHLINE, SEE SHEET RR-11

SEE SHEET RR-05

SEE SHEET RR-04

SEE SHEET RR-05





BLUELINE

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PROJECT MANAGER:
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PROJECT ENGINEER:
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DESIGNER:
CAROL DOGGETT

ISSUE DATE:
3/14/2022

NO	DATE	BY	REVISIONS

**ROAD RESTORATION PLAN -
SE 37TH ST**
**2022 WATER SYSTEM
IMPROVEMENTS PROJECT**
CITY OF MERCER ISLAND WASHINGTON

LEGEND


- CSTC
- PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
- SIDEWALK, CURB AND GUTTER

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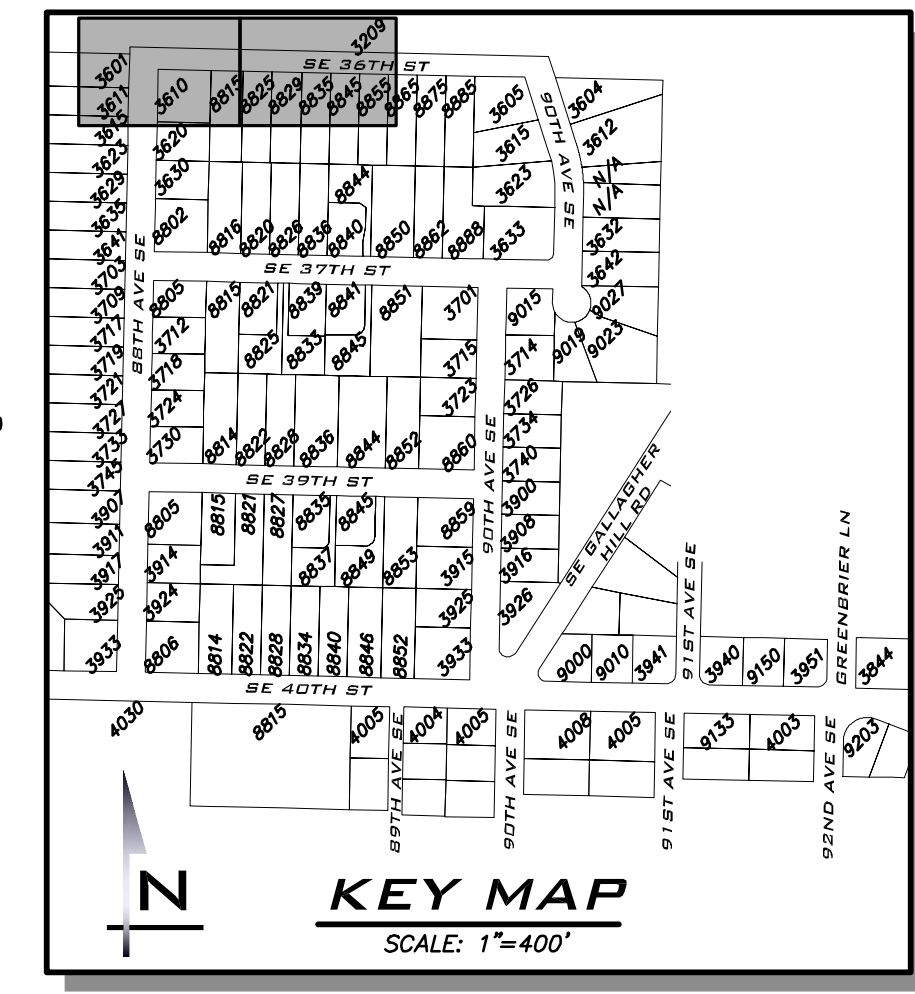
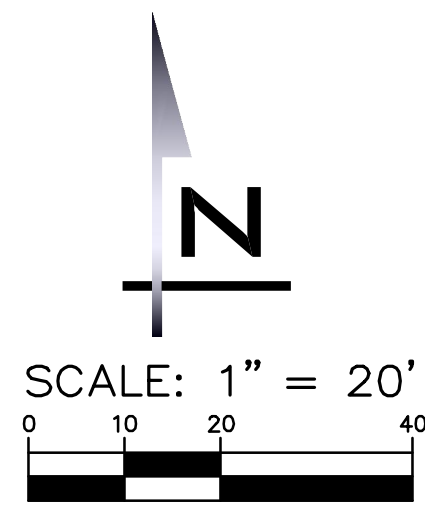
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21-303

SHEET NAME:
RR-12

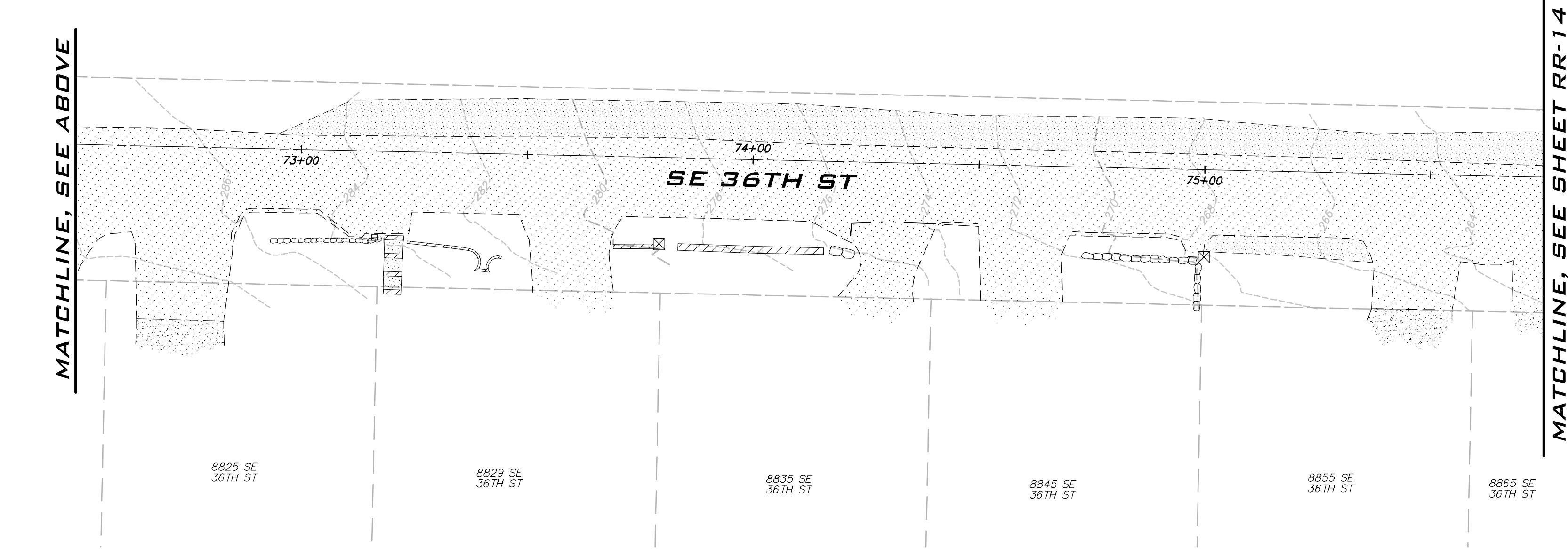
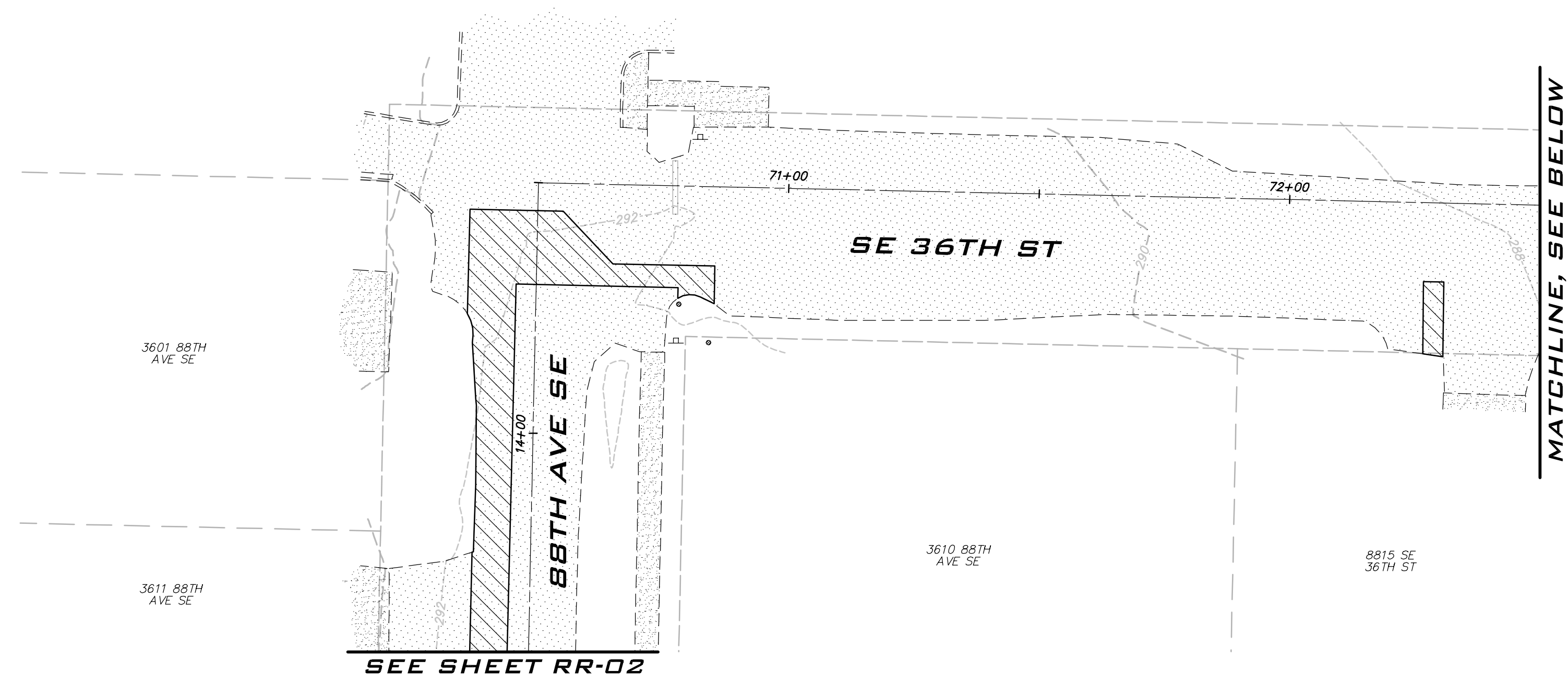
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 25 CENTRAL WAY, SUITE 400,
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SCALE:
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 PROJECT MANAGER:
 ROB DAHN, PE
 PROJECT ENGINEER:
 GRACE GARWIN, EIT
 DESIGNER:
 CAROL DOGGETT
 ISSUE DATE:
 3/14/2022



LEGEND

	CSTC
	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	SIDEWALK, CURB AND GUTTER

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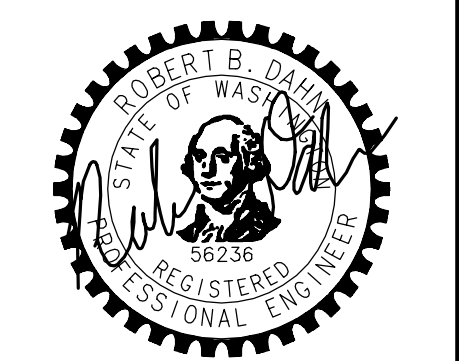
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EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES,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

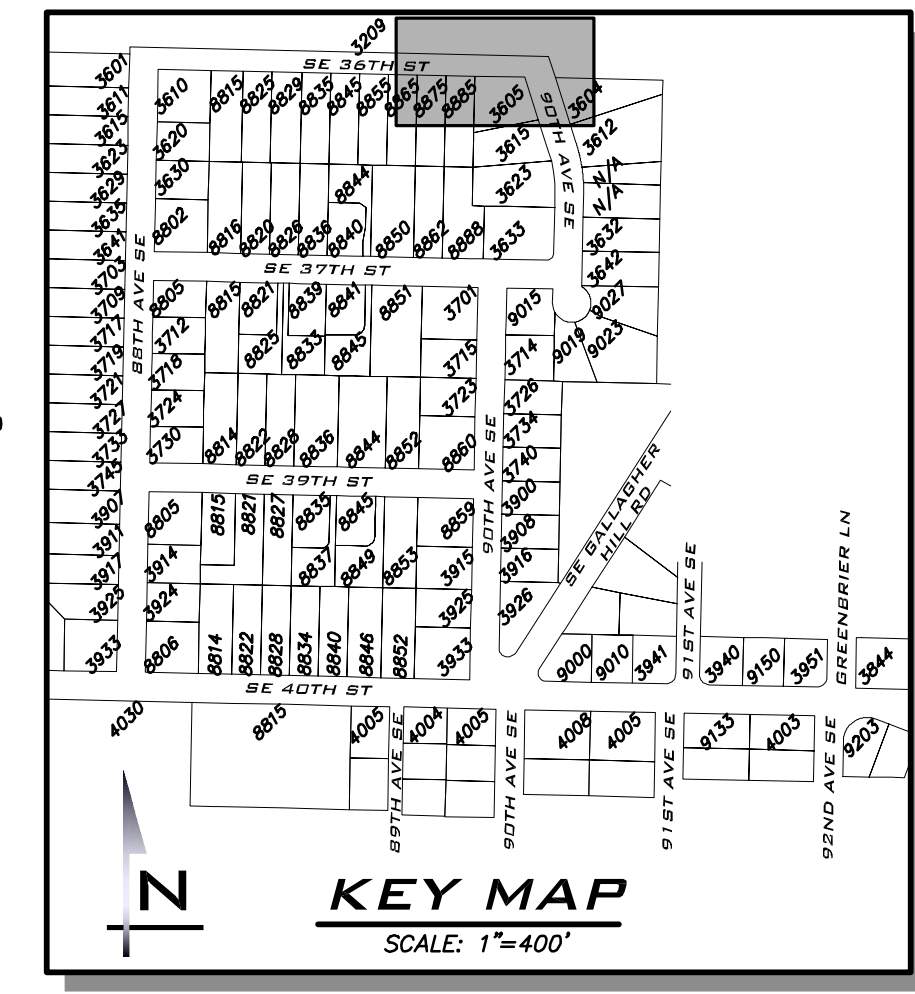
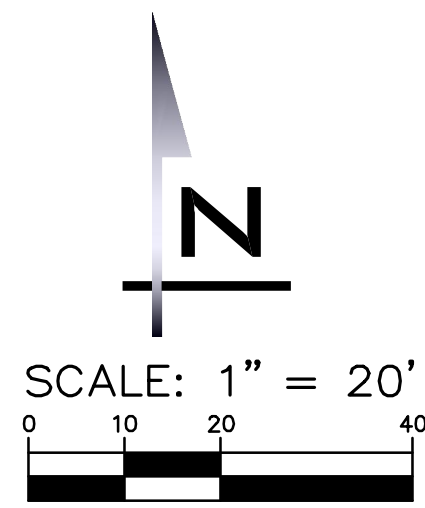
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**ROAD RESTORATION PLAN -
 SE 36TH ST
 2022 WATER SYSTEM
 IMPROVEMENTS PROJECT
 CITY OF MERCER ISLAND WASHINGTON**

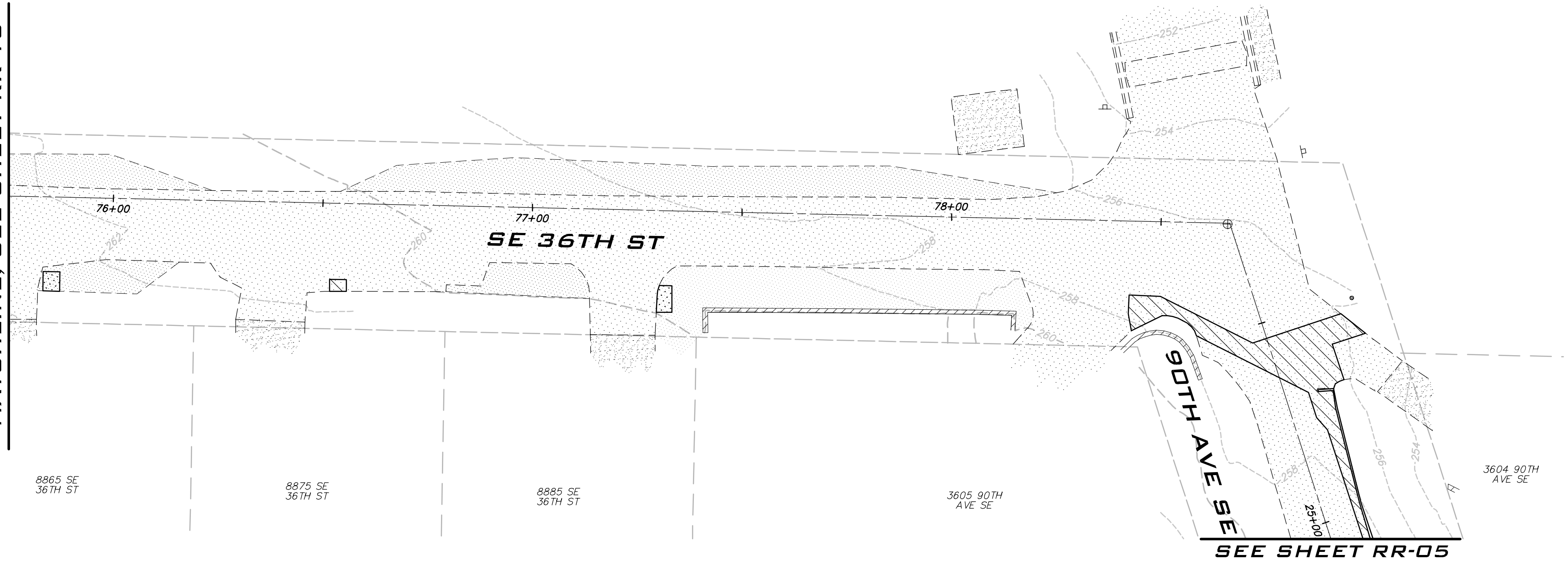


3/14/22
 JOB NUMBER:
21-303
 SHEET NAME:
RR-13
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MATCHLINE, SEE SHEET RR-13



LEGEND	
	CSTC
	PERMANENT HMA TRENCH PATCH (SEE COMI STD DTL W-3)
	SIDEWALK, CURB AND GUTTER

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

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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

NO	DATE	BY	REVISIONS

ROAD RESTORATION PLAN -
SE 36TH ST

2022 WATER SYSTEM
IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON

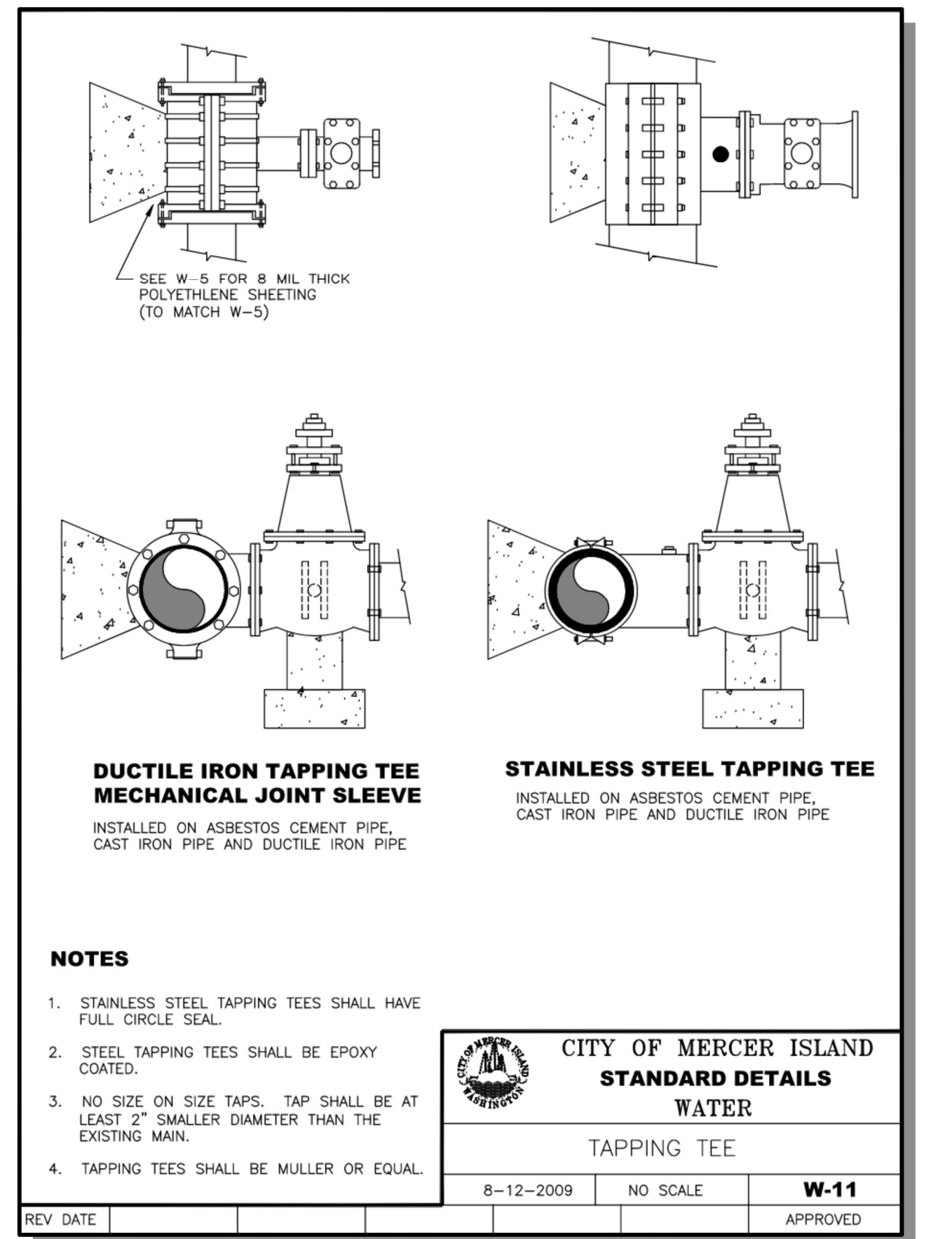
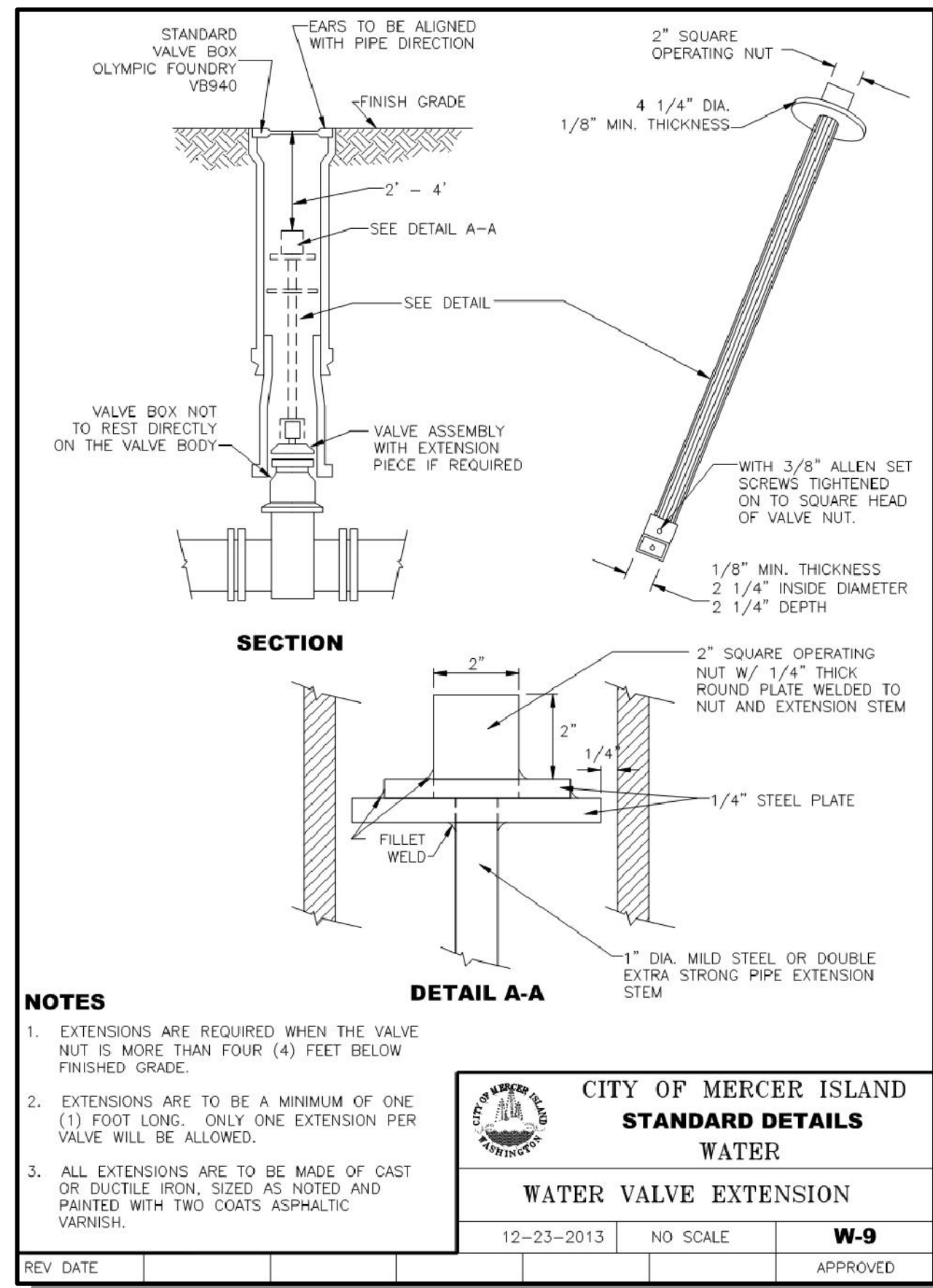
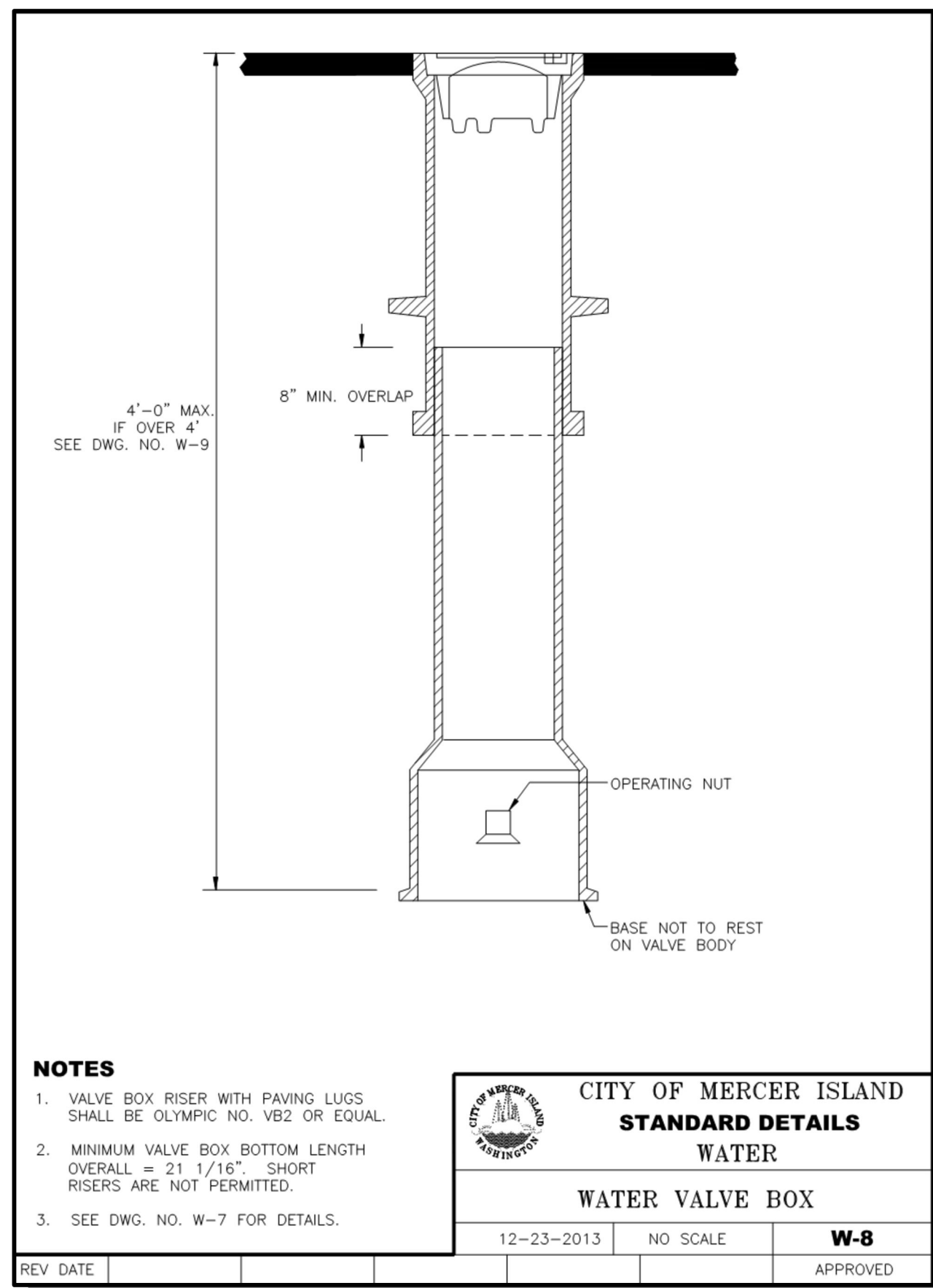
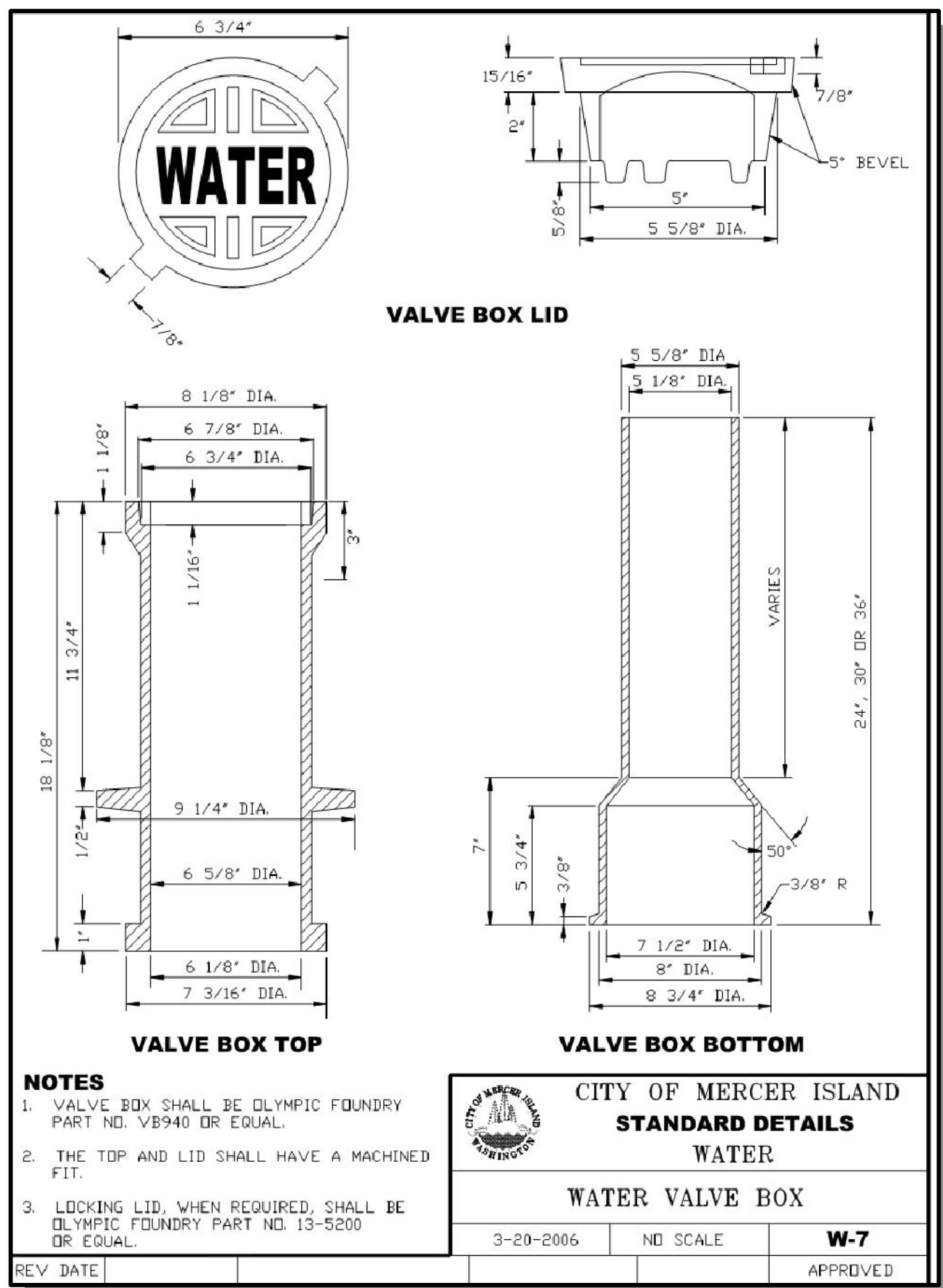
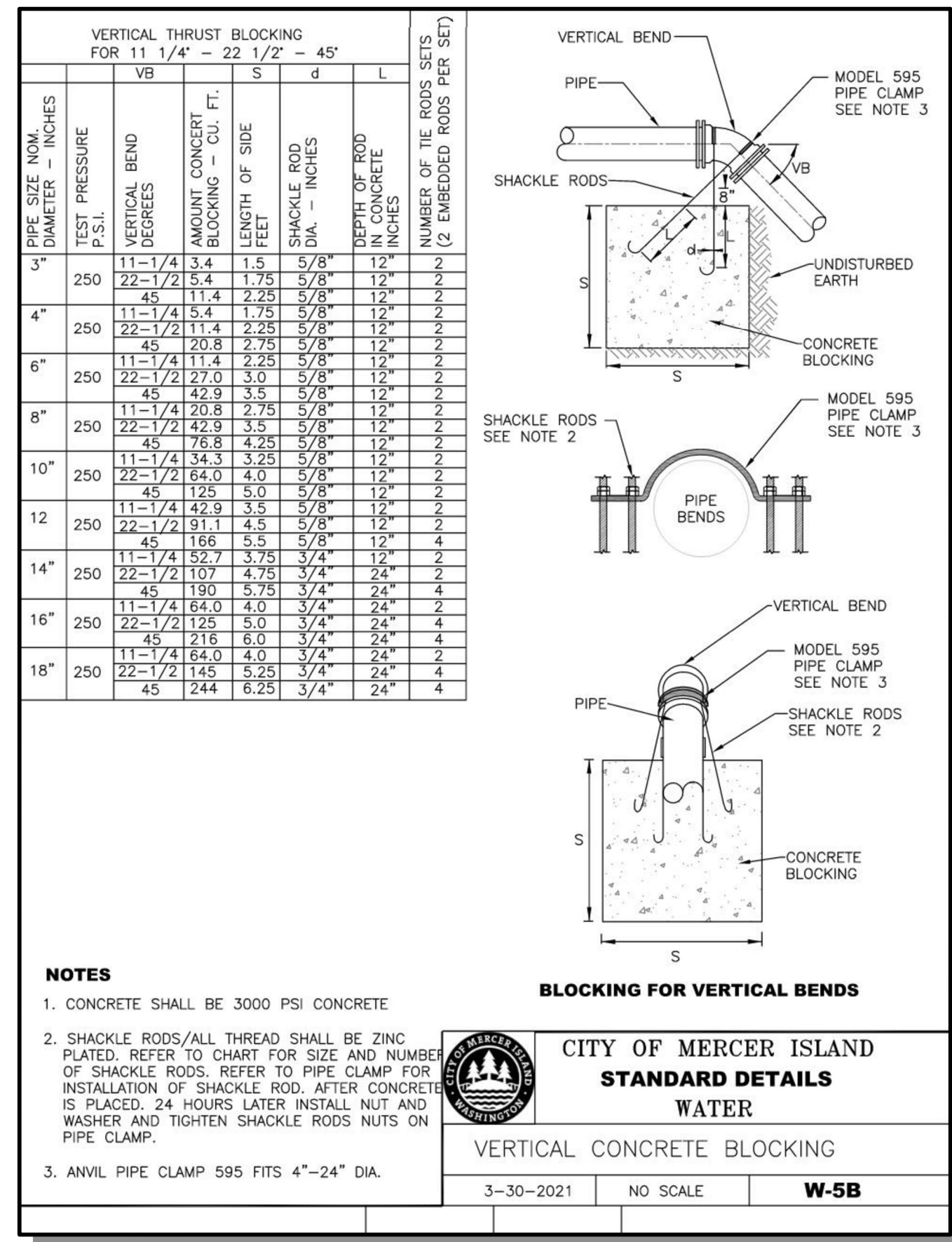
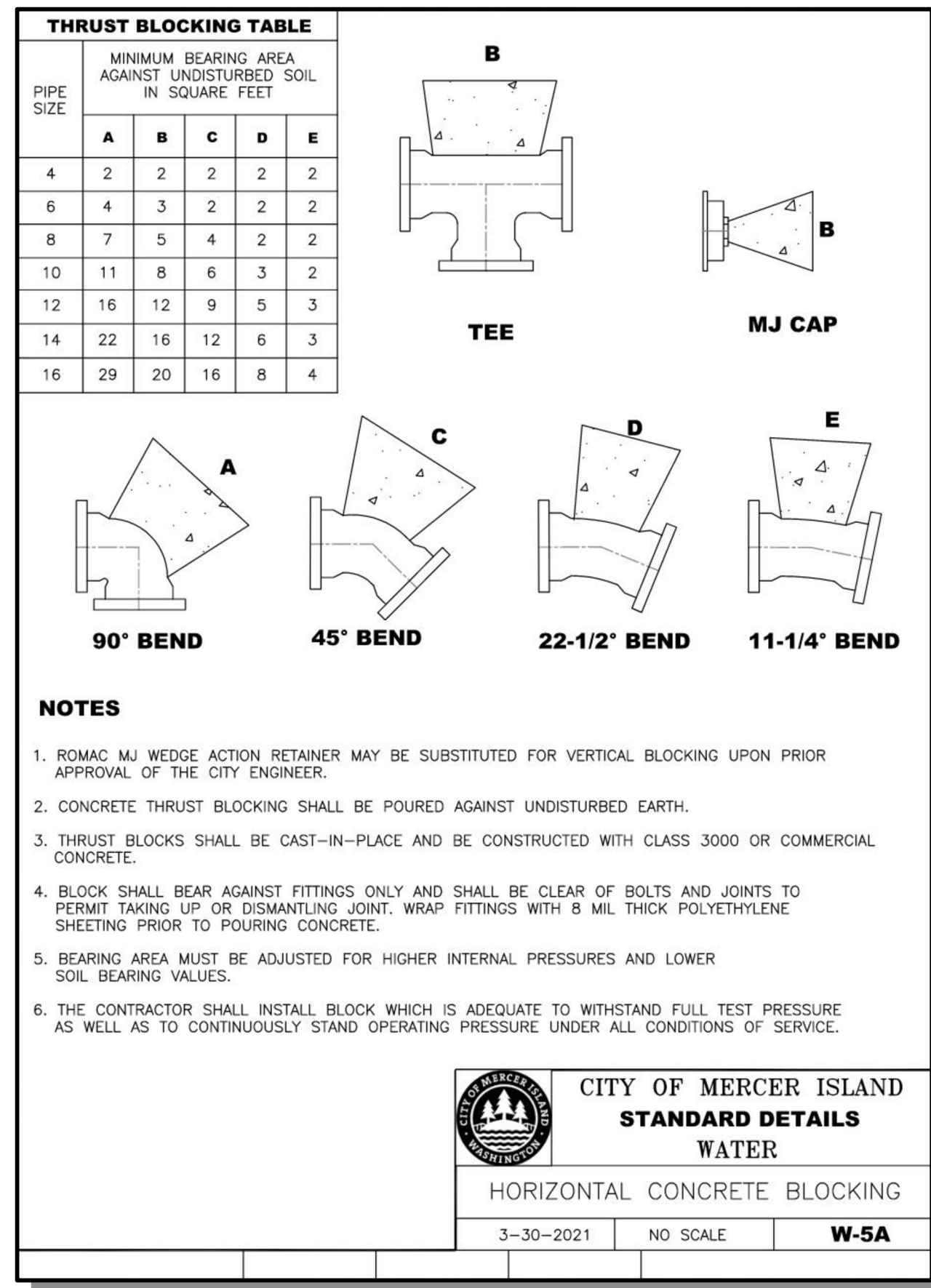
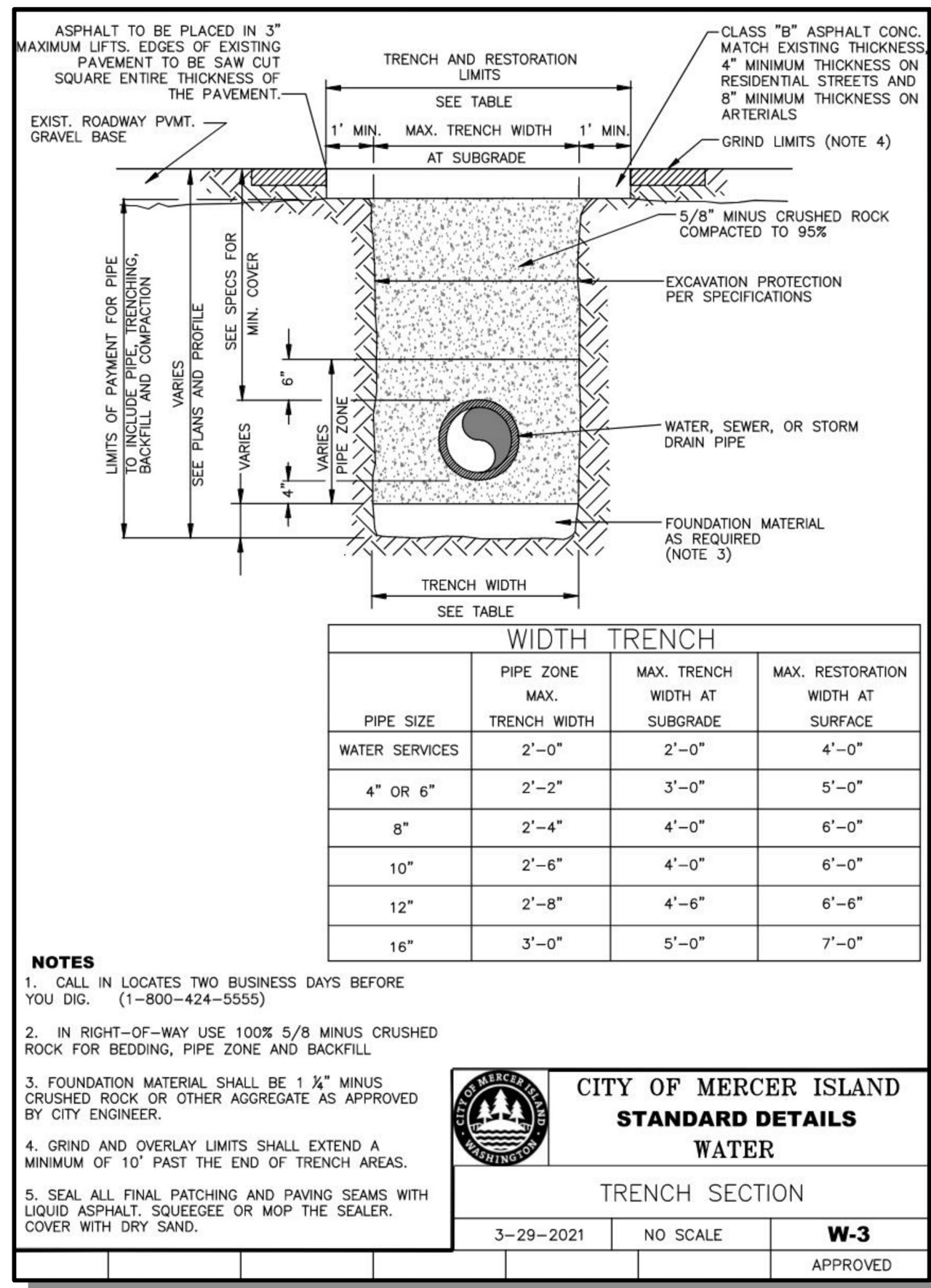
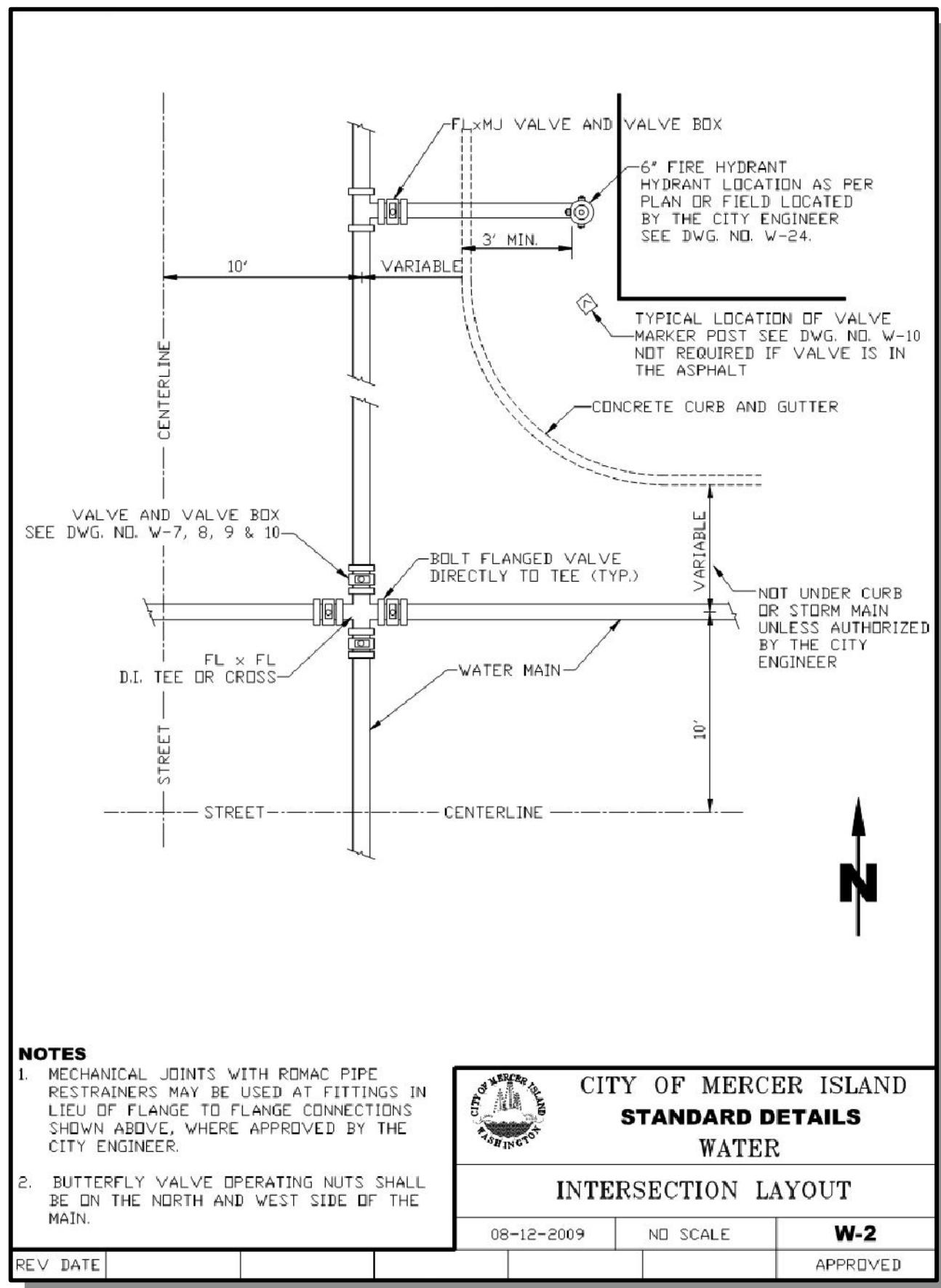
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JOB NUMBER:
21-303

SHEET NAME:
RR-14

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

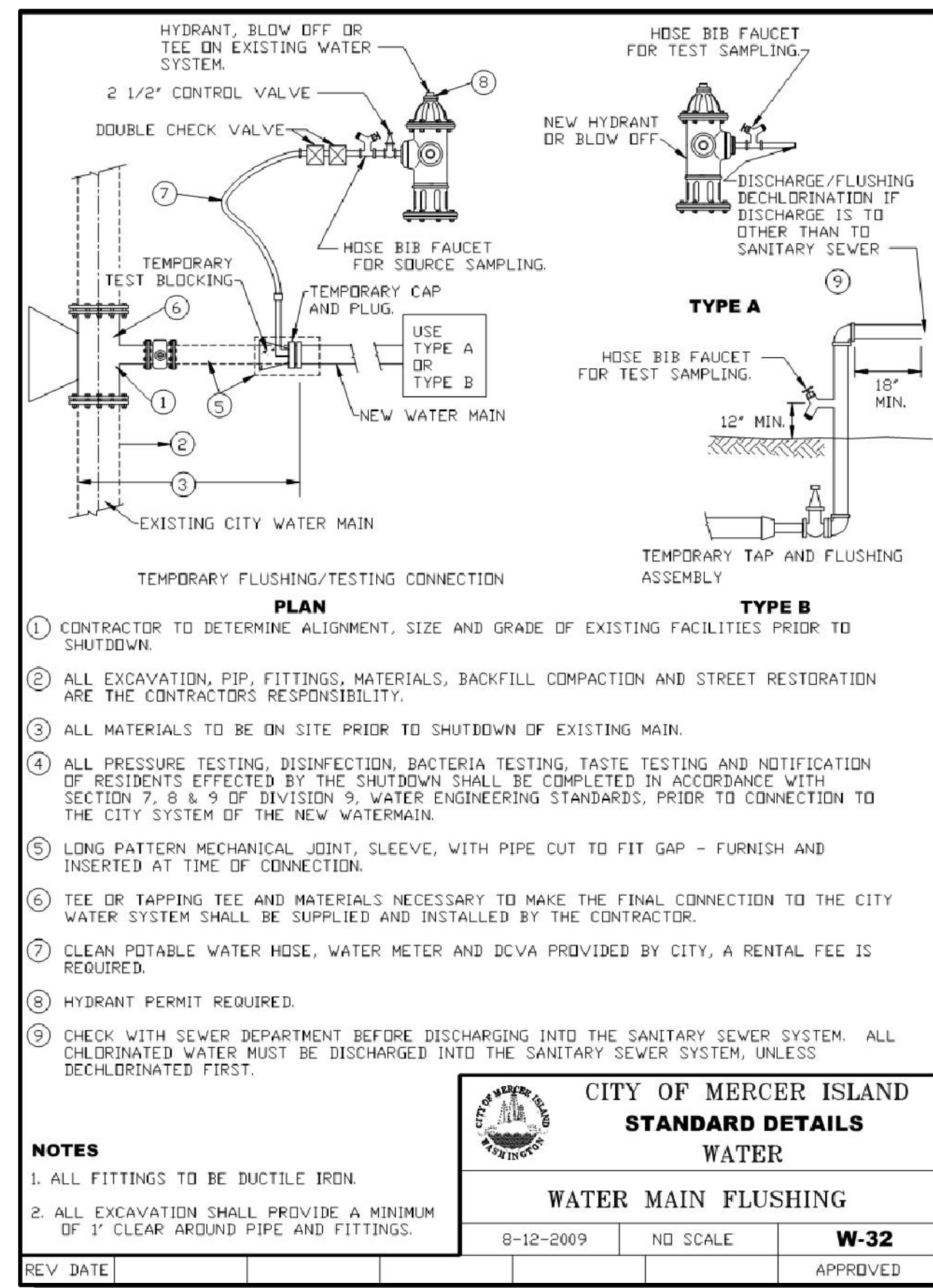
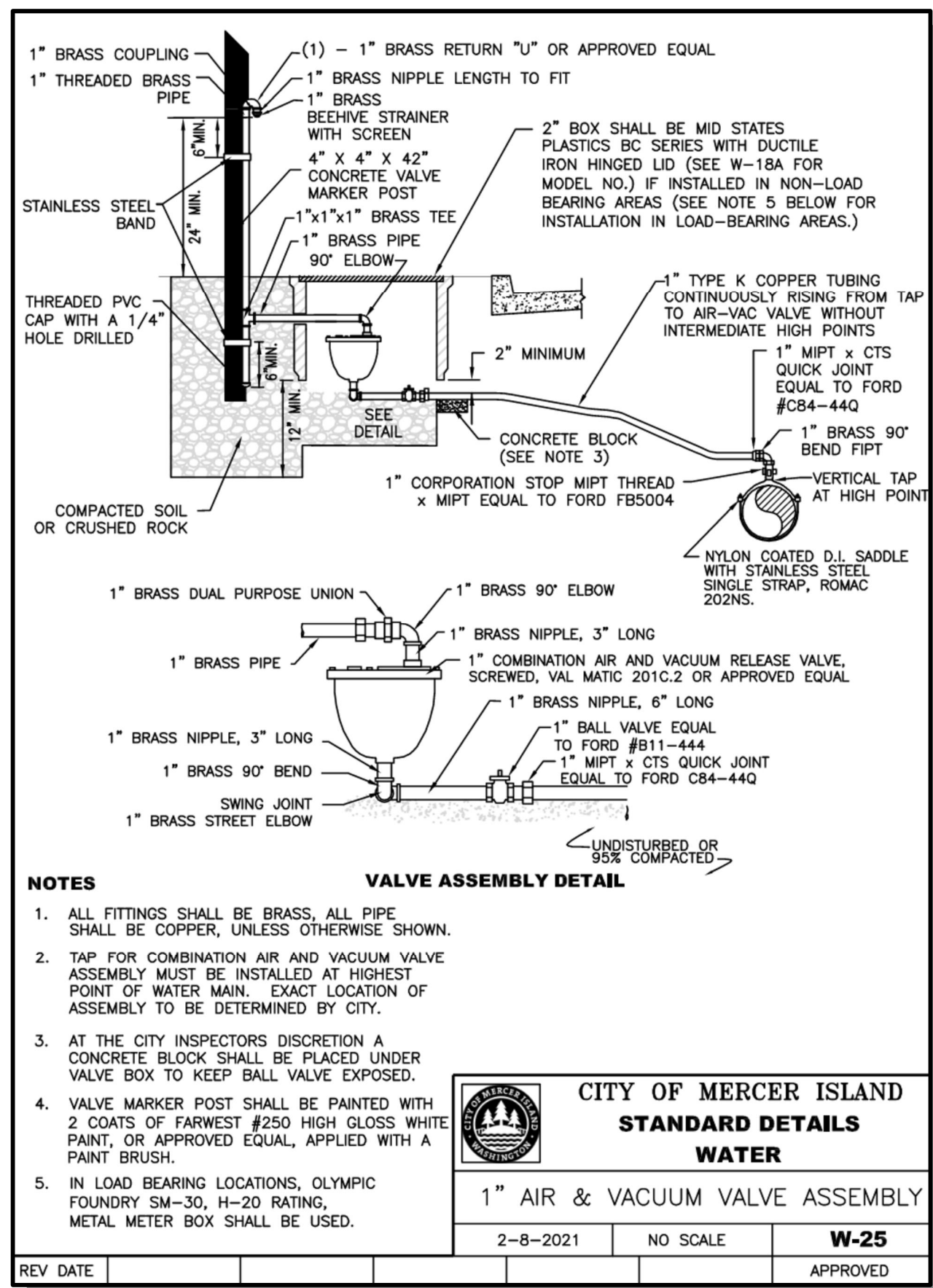
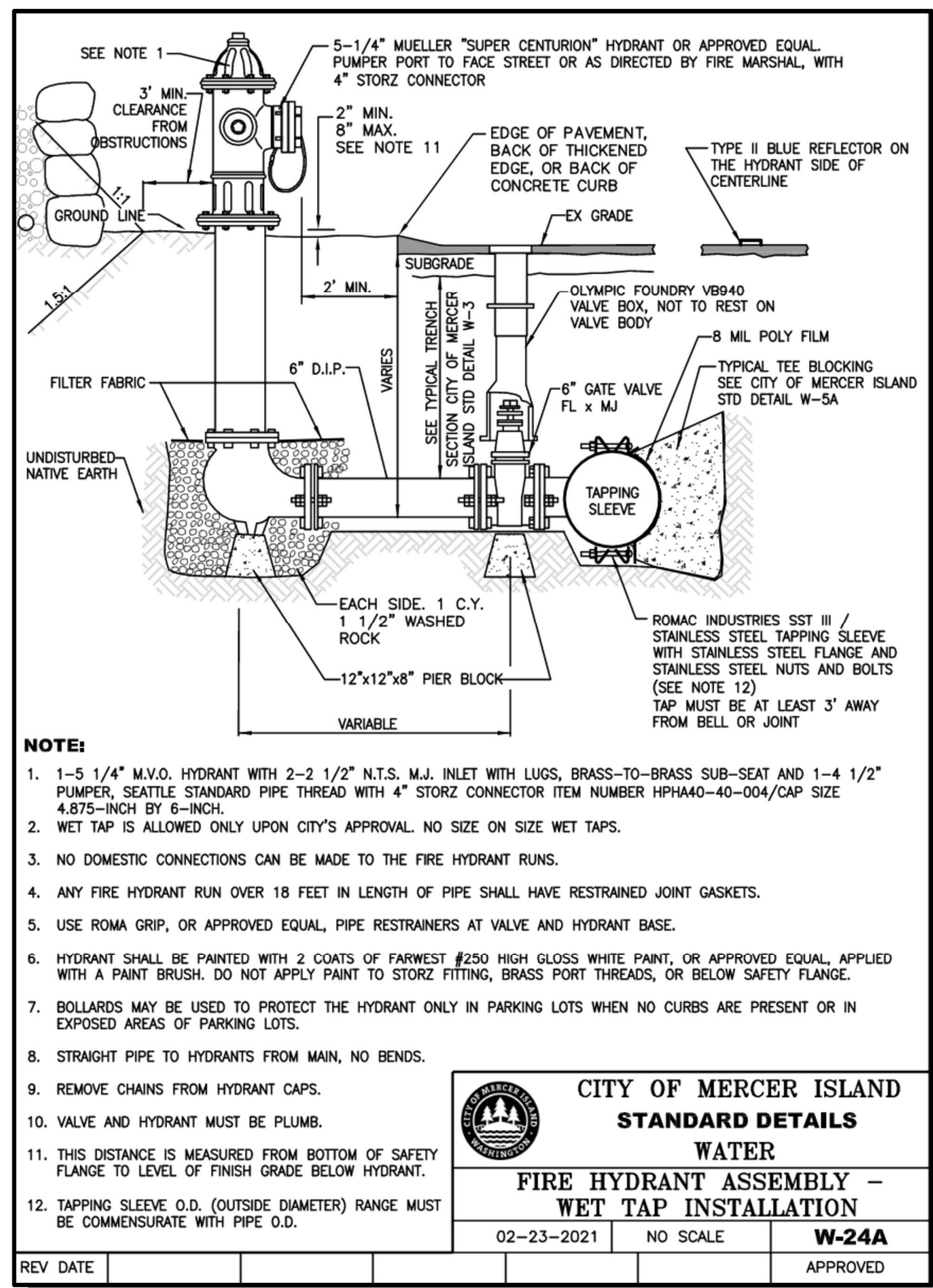
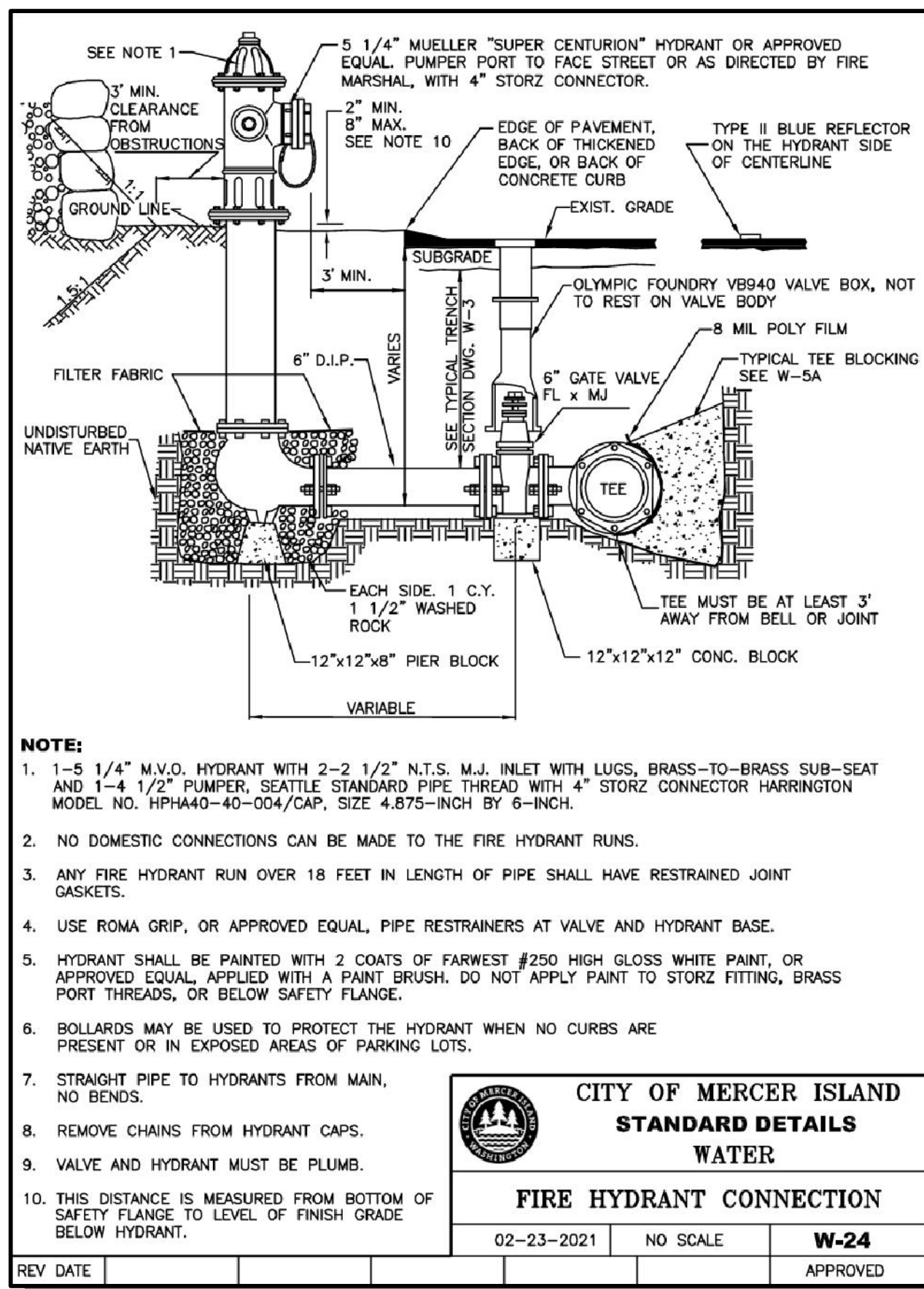
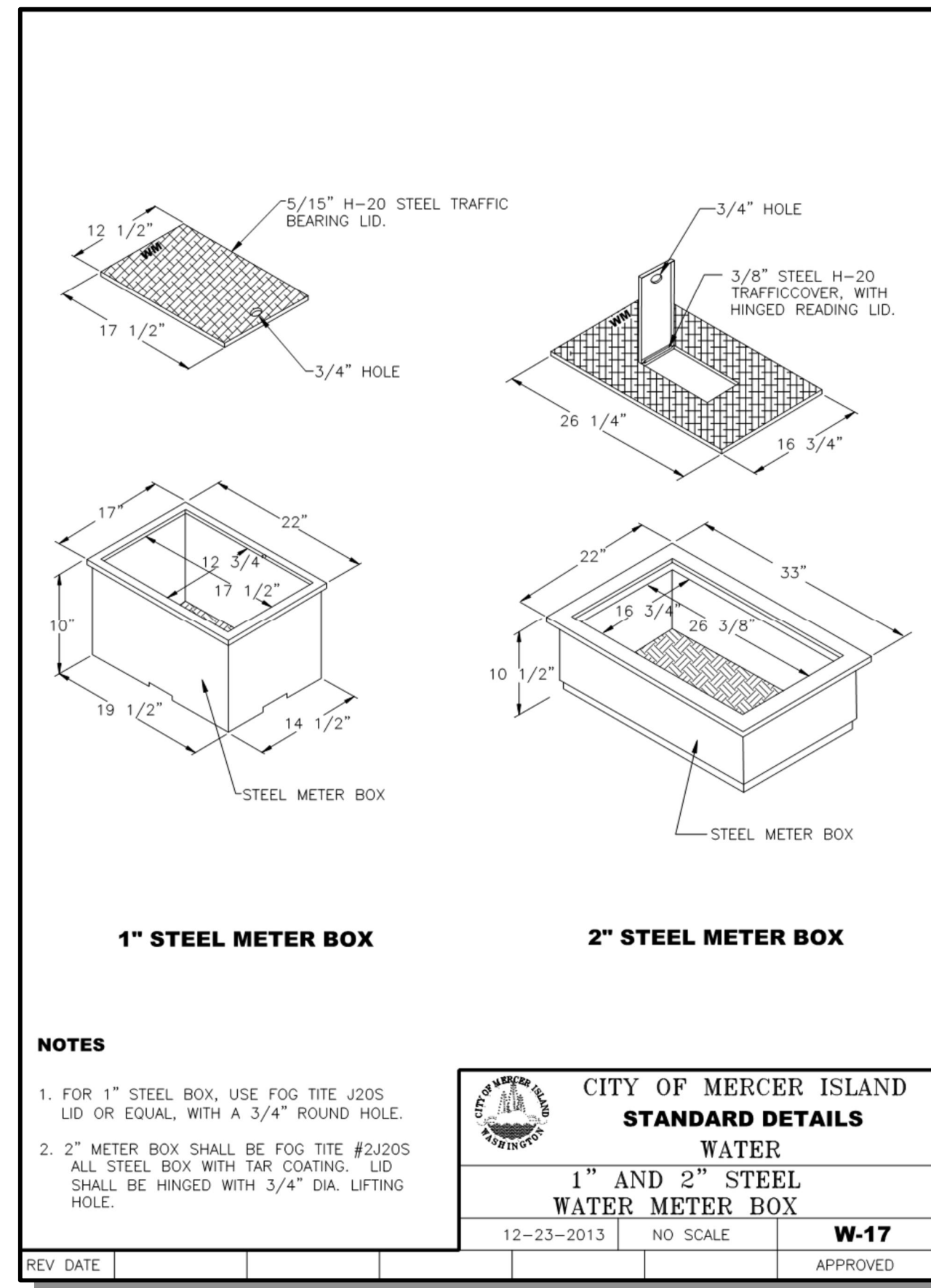
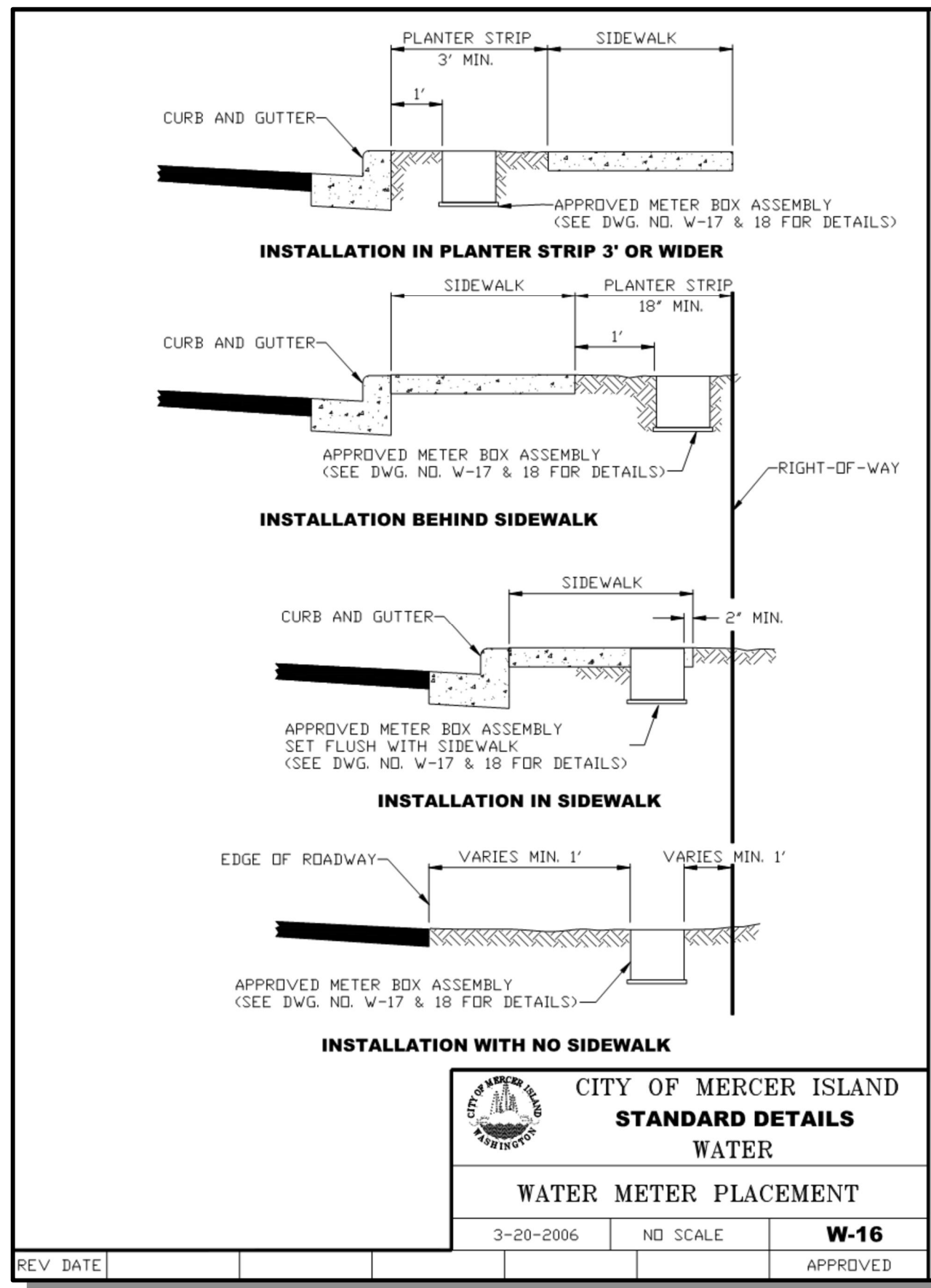
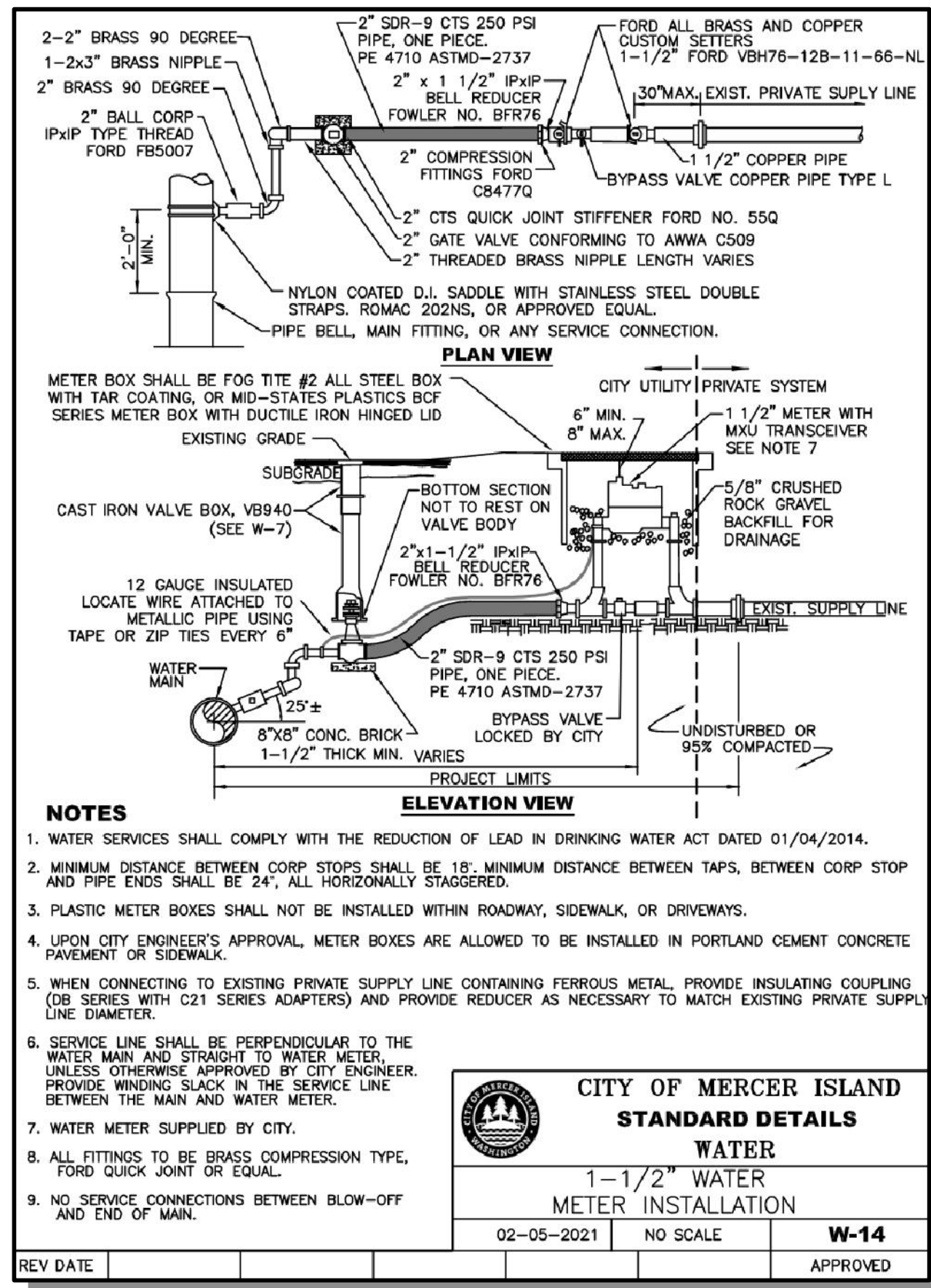
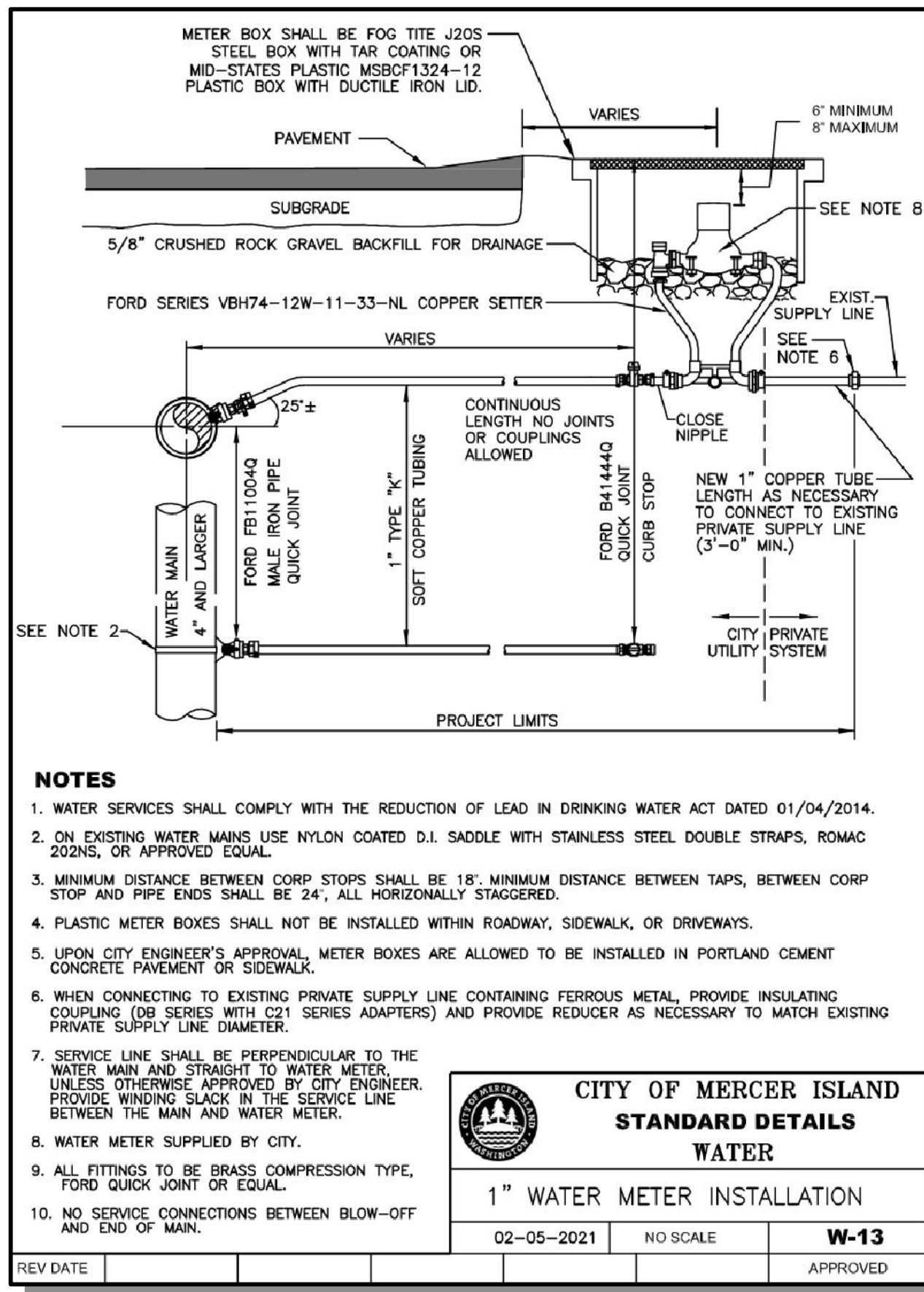
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STANDARD DETAILS
2022 WATER SYSTEM IMPROVEMENTS PROJECT
CITY OF MERCER ISLAND WASHINGTON

ROBERT B. DAHN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
56236

3/14/22
JOB NUMBER: 21-303
SHEET NAME: DT-01
SHT 57 OF 59

22-54
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BLUELINE

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

NO.	DATE	BY	REVISIONS

STANDARD DETAILS

2022 WATER SYSTEM IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON

ROBERT B. DAHN
REGISTERED PROFESSIONAL ENGINEER
NO. 56236

3/14/22
JOB NUMBER: 21-303
SHEET NAME: DT-02
SHT 58 OF 59

22-234
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NOTES

- The dual faced curb may be constructed by using two precast sloped mountable curbs (longitudinal halves) so long as the installation is consistent with the dimensions shown in the plan.
- Reinforcing steel shall conform to **Standard Specification 9-07**.

24 × 20 TAPER BLOCK

20 × 16 TAPER BLOCK

16 × 12 TAPER BLOCK

DUAL SLOPED BLOCK

NOSING BLOCK

ISOMETRIC VIEW

PROFESSIONAL ENGINEER
MICHAEL S. FLEMING
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
No. 56236
Date: 2020.09.25
15:43:50 -07'00'

APPROVED FOR PUBLICATION
Date: 2020.09.25
15:43:50 -07'00'

STATE DESIGN ENGINEER
Washington State Department of Transportation

WITH RAISED EDGE

ADJACENT TO CURB

ADJACENT TO CURB AND RAILING OR WALL

ADJACENT TO BUFFER STRIP

SIDEWALK ADJACENT TO WALL DETAIL

RAISED EDGE DETAIL

ISOMETRIC VIEW JOINT AND FINISH DETAIL

PROFESSIONAL ENGINEER
MICHAEL S. FLEMING
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
No. 56236
Date: 2020.09.25
15:43:50 -07'00'

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SCALE:
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PROJECT MANAGER:
ROB DAHN, PE

PROJECT ENGINEER:
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DESIGNER:
CAROL DOGGETT

ISSUE DATE:
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STANDARD DETAILS

2022 WATER SYSTEM IMPROVEMENTS PROJECT

CITY OF MERCER ISLAND WASHINGTON

PROFESSIONAL ENGINEER
ROBERT B. DAHN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
No. 56236
Date: 2020.09.25
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3/14/22

JOB NUMBER:
21-303

SHEET NAME:
DT-03

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