

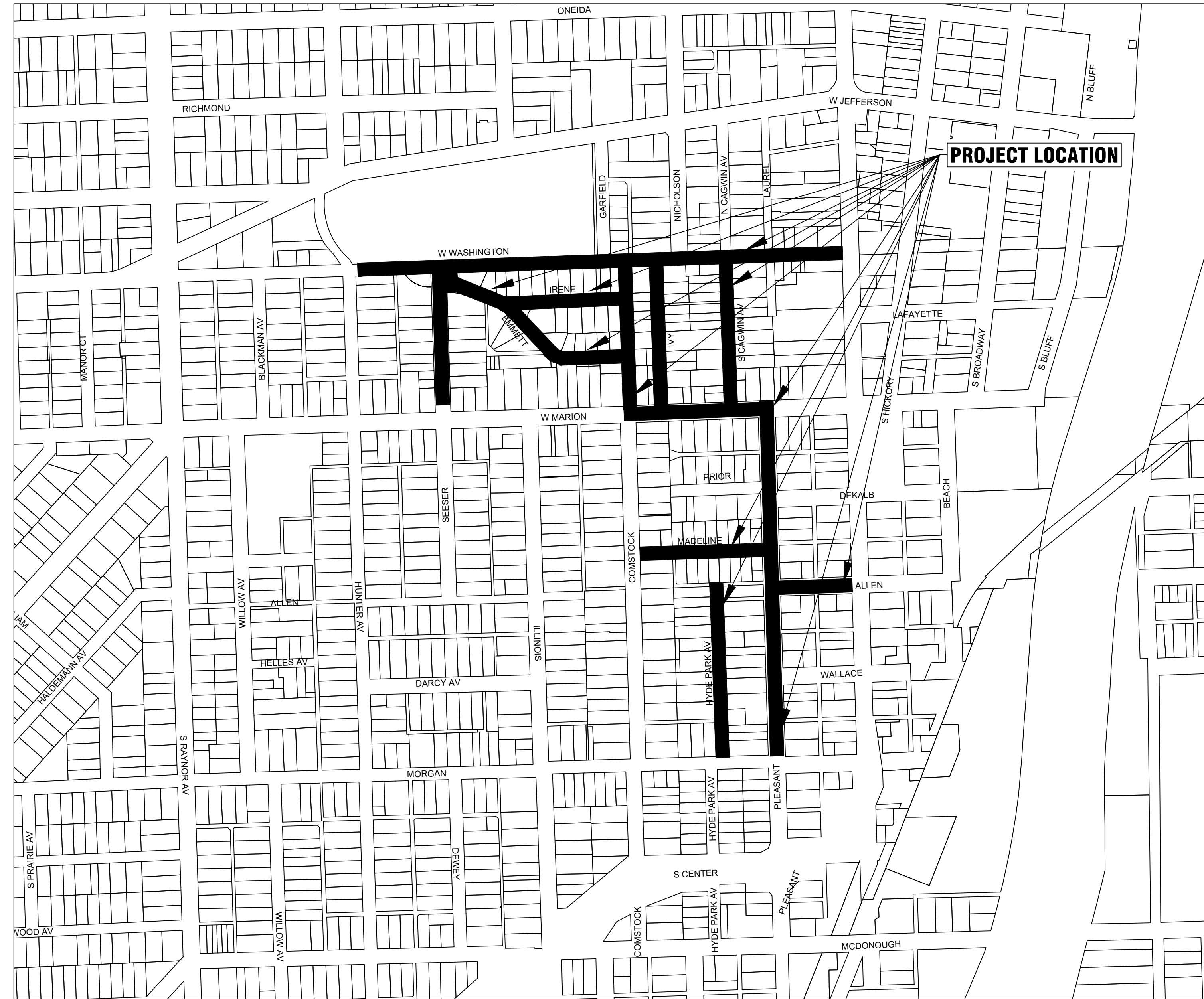
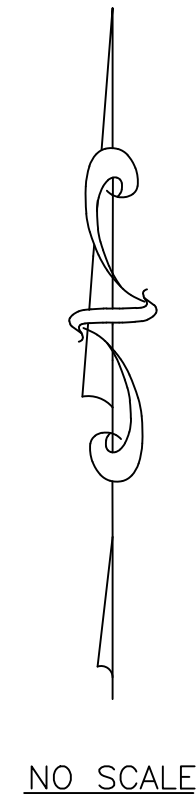
CITY OF JOLIET, ILLINOIS

ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2690-0123

WATER MAIN REPLACEMENT IEPA LOAN NO. L17-6074

LEAD SERVICE REPLACEMENT IEPA LOAN NO. L17-5746



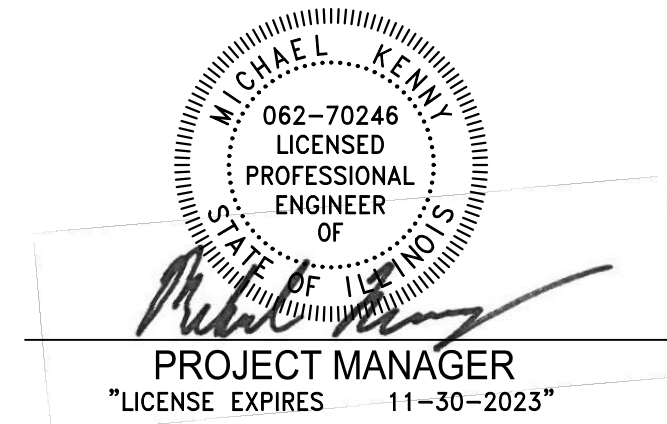
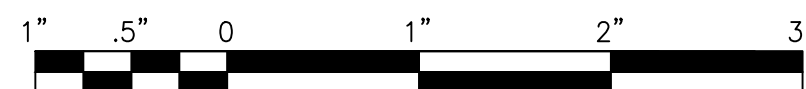
VICINITY MAP

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21	PLEASANT STREET STA. 220+50 TO STA. 225+00 PLAN AND PROFILE
22	COMSTOCK STREET STA. 230+00 TO STA. 234+00 PLAN AND PROFILE
23	COMSTOCK STREET STA. 234+00 TO STA. 238+00 PLAN AND PROFILE
24	CAGWIN STREET STA. 240+00 TO STA. 243+00 PLAN AND PROFILE
25	CAGWIN STREET STA. 243+50 TO STA. 247+00 PLAN AND PROFILE
26	IRENE STREET STA. 270+00 TO STA. 276+00 PLAN AND PROFILE
27	EMMETT STREET STA. 300+00 TO STA. 305+00 PLAN AND PROFILE
28	EMMETT STREET STA. 305+00 TO STA. 309+00 PLAN AND PROFILE
29	IVY STREET STA. 315+00 TO STA. 318+50 PLAN AND PROFILE
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31	DETAILS
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J.U.L.I.E. DESIGN STAGE REQUEST
 DIG NO. A220470432
 EXISTING UTILITIES:
 WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.



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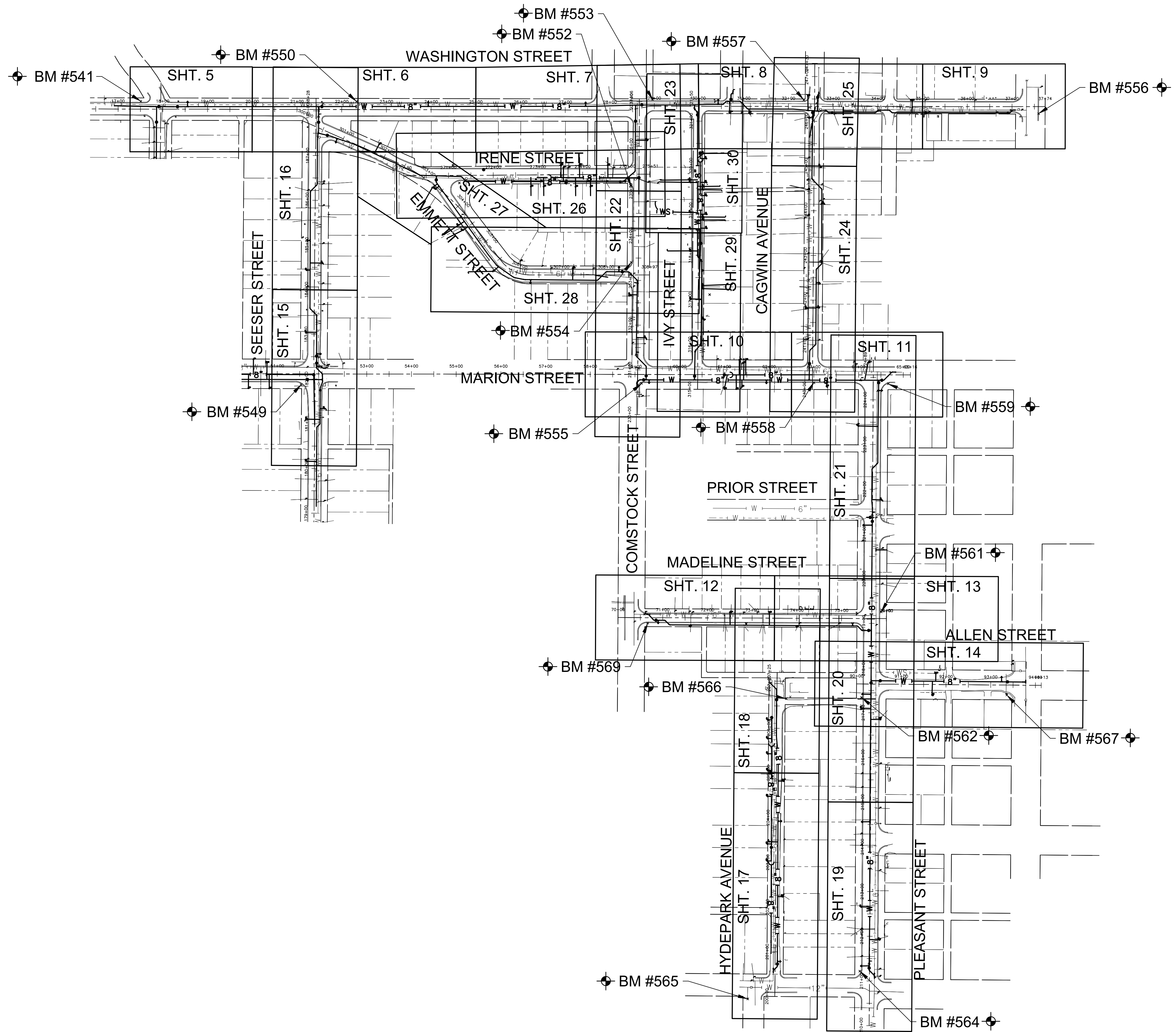
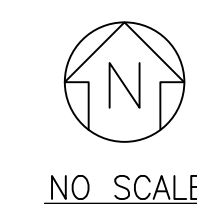
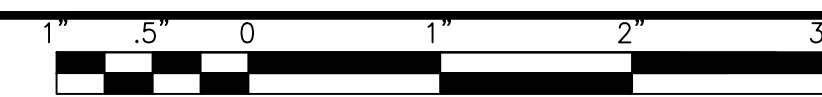


Eileen M. Kennedy
PROJECT ENGINEER



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P:\JOLIET\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1--SHEET KEY 1B.DWG SHEET KEY
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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

SCALE: AS NOTED

PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	2
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN
FOR BIDDING

EXISTING	LEGEND	PROPOSED
	SANITARY SEWER OR SERVICE	
	STORM SEWER OR SERVICE	
	WATER MAIN OR SERVICE	
	FORCE MAIN	
	MANHOLE	
	CATCH BASIN	
	INLET	
	DRYWELL	
	CULVERT END SECTION	
	FIRE HYDRANT W/ AUX. VALVE, VALVE BOX, AND COVER	
	WATER VALVE W/ BOX AND COVER	
	WATER VALVE VAULT	
	WATER SERVICE BOX OR CURB STOP	
	WATER TEE FITTING	
	WATER SLEEVE FITTING	
	WATER 90° FITTING	
	WATER 45° FITTING	
	WATER REDUCER FITTING	
	CAP FITTING	
	WATER CROSS FITTING	
	WATER METER	
	CLEAN OUT	
	SEPTIC VENT	
	TO BE ABANDONED AND/OR REMOVED	
	STRUCTURE TO BE ABANDONED	
	GAS LINE	
	GAS VALVE W/ BOX AND COVER	
	GAS VALVE VAULT	
	GAS METER	
	GAS RISER	
	GAS SERVICE VALVE	
	TELEPHONE CABLE	
	TELEPHONE DUCT	
	TELEPHONE TRANSFORMER	
	CABLE TELEVISION (BURIED)	
	CABLE T.V. RISER	
	CABLE T.V. VAULT	
	UNDERGROUND ELECTRICAL	

EXISTING	LEGEND	PROPOSED
	ELECTRIC METER	
	PAD MOUNTED TRANSFORMER	
	ELECTRIC VAULT	
	JUNCTION BOX	
	UTILITY POLE	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
	MAIL BOX	
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST w/ SIGNAL HEAD	
	HANDHOLE	
	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	
	CONIFEROUS TREE (W/ HEIGHT)	
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
	FENCE	
	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
	DITCH	
	RIGHT OF WAY (ROW)	
	RIGHT OF WAY MONUMENT	
	UNFENCED PROPERTY LINE	
	IRON PIPE (PROPERTY CORNER)	
	CENTER LINE	
	PROPOSED EL./EXISTING EL. and STATION	
	SOIL BORING AND NUMBER (APPROX LOCATION)	
	BENCH MARK	
	SURVEY CONTROL POINT	
	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

(HATCHED SHALL BE REMOVED)
 (HATCHED SHALL BE REMOVED)

BENCHMARKS (NAVD 88 DATUM)

B.M. # 550		RAILROAD SPIKE SET IN SOUTH FACE POWER POLE LOCATED AT NORTHEAST CORNER OF WASHINGTON STREET AND SEESER STREET ELEV. = 638.03
B.M. # 551		RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE LOCATED AT THE SOUTHEAST CORNER OF EMETT STREET AND IRENE STREET ELEV. = 624.37
B.M. # 552		RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE MAST ARM LOCATED AT SOUTHWEST CORNER OF COMSTOCK STREET AND IRENE STREET ELEV. = 621.13
B.M. # 553		RAILROAD SPIKE SET ON SOUTH FACE POWER POLE MAST ARM LOCATED AT NORTHEAST CORNER OF COMSTOCK STREET AND WASHINGTON STREET ELEV. = 627.44
B.M. # 554		NAIL SET ON SOUTH FACE OF POWER POLE LOCATED AT THE NORTHWEST CORNER OF EMMETT STREET AND COMSTOCK STREET ELEV. = 602.47
B.M. # 555		RAILROAD SPIKE SET ON NORTHWEST FACE POWER POLE LOCATED AT THE SOUTHEAST CORNER OF MARION STREET AND COMSTOCK STREET ELEV. = 605.33
B.M. # 556		RAILROAD SPIKE SET IN WEST FACE OF POWER POLE LOCATED AT THE EAST SIDE OF CENTER STREET AND WASHINGTON STREET ELEV. = 575.92
B.M. # 557		RAILROAD SPIKE SET ON SOUTH FACE POWER POLE MAST ARM LOCATED AT THE NORTHWEST CORNER OF CAGWIN AVENUE AND WASHINGTON STREET ELEV. = 590.02
B.M. # 558		RAILROAD SPIKE SET IN NORTH FACE OF POWER POLE MAST ARM LOCATED AT 418 MARION STREET ELEV. = 586.60
B.M. # 559		RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE MAST ARM AT SOUTHEAST CORNER OF MARION STREET AND PLEASANT STREET ELEV. = 582.46
B.M. # 561		RAILROAD SPIKE SET IN WEST FACE POWER POLE LOCATED AT 122 PLEASANT STREET ELEV. = 577.07
B.M. # 562		RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE MAST ARM LOCATED NORTHWEST CORNER OF PLEASANT STREET AND ALLEN STREET ELEV. = 576.07
B.M. # 564		RAILROAD SPIKE SET IN SOUTHEAST FACE OF POWER POLE MAST ARM AT NORTHWEST CORNER OF PLEASANT STREET AND MORGAN STREET ELEV. = 569.18
B.M. # 565		FLANGE BOLT LOCATED SOUTH EAST FACE OF HYDRANT AT THE SOUTHWEST CORNER OF HYDEPARK AVENUE AND MORGAN STREET 579.08
B.M. # 566		RAILROAD SPIKE SET IN SOUTHWEST FACE OF POWER POLE LOCATED AT THE NORTHEAST CORNER OF HYDEPARK AVENUE AND ALLEN STREET ELEV. = 580.80
B.M. # 567		CUT SQUARE STREETLIGHT CONTROL CABINET BASE LOCATED AT SOUTHWEST CORNER OF ALLEN STREET AND S CENTER STREET ELEV. = 567.69
B.M. # 569		RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT SOUTHEAST CORNER OF MADELINE STREET AND COMSTOCK STREET ELEV. = 595.16

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	C&G	CURB AND GUTTER	X=	EXTERNAL DISTANCE OF VERTICAL CURVE
CL	CENTERLINE	BC	BACK OF CURB	PC	POINT OF CURVATURE
BIT	BITUMINOUS PAVEMENT	EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION
GR	GRAVEL	PL	PROPERTY LINE	PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	ROW	RIGHT OF WAY	POT	POINT ON TANGENT
FH	FIRE HYDRANT	FL	FLOW LINE	PCC	POINT OF COMPOUND CURVATURE
CI	CAST IRON	TF	TOP OF FRAME	PRC	POINT OF REVERSE CURVE
DI	DUCTILE IRON	TC	TOP OF CURB OR CONCRETE	VC	VERTICAL CURVE
F-F	FACE-TO-FACE	R	STRUCTURE TO BE RECONSTRUCTED	N&W	NAIL AND WASHER
E-E	EDGE-TO-EDGE	A	STRUCTURE TO BE ADJUSTED	TCE	TEMPORARY CONSTRUCTION EASEMENT
B-B	BACK-TO-BACK	▲	CENTRAL ANGLE	SS	STORM SEWER
BM	BENCH MARK	D=	DEGREE OF CURVE	SAN SEW	SANITARY SEWER
INV EL	INVERT ELEVATION	T=	TANGENT LENGTH	PROP	PROPOSED
CL EL	CENTERLINE ELEVATION	L=	CURVE LENGTH	STN STL	STAINLESS STEEL
P	POINT	R=	RADIUS OF CURVE	RJT	RESTRAINED JOINT
G	GUTTER	E=	EXTERNAL DISTANCE	HDD	HORIZONTAL DIRECTIONALLY DRILLED
C	CURB	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)	LF	LINEAR FEET

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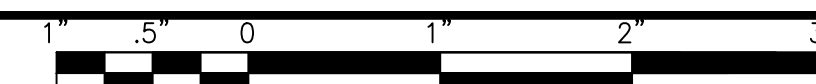
CONSULTANTS	REVISED -

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

LEGENDS BENCHMARKS AND ABBREVIATIONS		TOTAL SHEETS	SHEET NO.
DESIGNED - EK		33	3
DRAWN - JJS			
CHECKED - LMS			
DATE - 11/07/22			
SCALE: AS NOTED	PROJECT NO: 211917		

FINAL DESIGN FOR BIDDING

SUMMARY OF QUANTITIES



City of Joliet			
St. Pat's Phase 1B			
No.	PAY ITEM	UNIT	QUANTITY
PART A - WATER MAIN IMPROVEMENTS			
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	TRAFFIC CONTROL AND PROTECTION	LSUM	1
3	GRANULAR TRENCH BACKFILL	CUYD	5,300
4	DUCTILE IRON PIPE MOBILIZATION	FOOT	300
5	WATER MAIN (OPEN CUT), 6-INCH	FOOT	134
6	WATER MAIN (OPEN CUT), 8-INCH	FOOT	8,820
7	WATER MAIN (DIRECTIONALLY DRILLED), 8-INCH	FOOT	1,046
8	MISCELLANEOUS FITTINGS	POUND	13,000
9	PROJECT MANAGEMENT	HOURL	48
10	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH	86
11	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH	1
12	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2-INCH	EACH	1
13	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	305
14	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	25
15	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	FOOT	25
16	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	2,265
17	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	30
18	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	FOOT	30
19	WATER SERVICE LINE TYPE L, 3/4-INCH	FOOT	25
20	WATER SERVICE LINE TYPE L, 1-INCH	FOOT	80
21	WATER SERVICE LINE TYPE L, 1.5-INCH	FOOT	10
22	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE	EACH	16
23	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	2
24	UTILITY LOCATION - PRIVATE PROPERTY	EACH	16
25	WATER METER RELOCATION	EACH	16
26	WATER METER REPLACEMENT	EACH	2
27	CONNECT TO WATER MAIN (NON-PRESSURE), 4-INCH	EACH	1
28	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	6
29	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	5
30	GATE VALVE, 6-INCH	EACH	1
31	GATE VALVE, 8-INCH	EACH	30
32	VALVE BOX	EACH	3
33	VALVE VAULT, 4-FOOT DIAMETER	EACH	28
34	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT	5
35	FIRE HYDRANT	EACH	28
36	FIRE HYDRANT BARREL EXTENSION	VFT	5
37	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
38	SANITARY SEWER REMOVAL AND REPLACEMENT, 8-INCH	FOOT	107
39	SANITARY SEWER REMOVAL AND REPLACEMENT, 10-INCH	FOOT	17
40	SANITARY SEWER REMOVAL AND REPLACEMENT, 15-INCH	FOOT	28

41	SANITARY SEWER REMOVAL AND REPLACEMENT, 18-INCH	FOOT	8
42	INLET PROTECTION FILTER	EACH	137
43	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE	SQYD	4,900
44	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 4-INCH BINDER 2-INCH SURFACE	SQYD	1,100
44	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SQYD	30
45	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQYD	50
46	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	30
47	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	930
48	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	7,000
49	DETECTABLE WARNINGS	SQFT	10
50	REMOVE AND RESET RETAINING WALL	FOOT	130
51	PAVEMENT MARKING - LINE, 6-INCH (THERMOPLASTIC)	FOOT	820
52	PAVEMENT MARKING - LINE, 12-INCH (THERMOPLASTIC)	FOOT	30
53	PAVEMENT MARKING - LINE, 24-INCH (THERMOPLASTIC)	FOOT	180
54	RESTORATION OF LAWNS AND PARKWAYS	SQYD	600
55	LANDSCAPING PROJECT MANAGEMENT	HOURL	32
56	LANDSCAPING RESTORATION ALLOWANCE	EACH	16
57	SHRUB AND BRUSH DISPOSAL	EACH	12
58	FENCE TO BE REMOVED AND RE-ERECTED	FOOT	40
59	CRIMP WATER SERVICE	EACH	16
60	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT	220
61	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	27
62	DUST CONTROL	DAY	20
63	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	91
64	SOIL TESTS FOR CONTAMINANTS	EACH	10
65	CONTAMINATED WASTE DISPOSAL	CUYD	91
66	EXPLORATORY EXCAVATION	EACH	10
67	ROCK EXCAVATION	CUYD	2,290
68	TREE ROOT PRUNING	EACH	25
69	TREE TRIMMING	LSUM	1
70	TREE REMOVAL AND REPLACEMENT, 6-INCH THROUGH 12-INCH	EACH	1
71	TREE REMOVAL AND REPLACEMENT, OVER 12 INCH	EACH	2
72	WATER SERVICE LOCATE	LSUM	1
PART B - SANITARY SEWER IMPROVEMENTS			
73	GRANULAR TRENCH BACKFILL (SANITARY)	CUYD	1,100
74	SANITARY SEWER (OPEN CUT), 8-INCH, PVC, 0 TO 8 FEET DEEP	FOOT	290
75	SANITARY SEWER (OPEN CUT), 8-INCH, PVC, 8 TO 12 FEET DEEP	FOOT	1,004
76	SANITARY SEWER MANHOLE, TYPE A, 4-FOOT DIAMETER, 0 TO 8 FEET DEEP	EACH	3
77	SANITARY SEWER MANHOLE, TYPE A, 4-FOOT DIAMETER, 8 TO 12 FEET DEEP	EACH	5
78	CONNECTION TO EXISTING SANITARY SEWER MANHOLE	EACH	5
79	SANITARY SERVICE LINES, 6-INCH	FOOT	622
80	EXCAVATION AND POINT REPAIR - NO.1	LSUM	1
81	EXCAVATION AND POINT REPAIR - ADDITIONAL PIPE IN PAVEMENT - 10"	FOOT	10
82	TELEVISIONING OF NEW SEWER FOR FINAL INSPECTION	FOOT	1,891
83	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE (SANITARY)	SQYD	1,000

84	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH (SANITARY)	SQYD	130
85	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH (SANITARY)	SQYD	50
86	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT (SANITARY)	SQYD	60
87	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (SANITARY)	FOOT	140
88	PCC SIDEWALK REMOVAL AND REPLACEMENT (SANITARY)	SOFT	1,000
89	RESTORATION OF LAWNS AND PARKWAYS (SANITARY)	SQYD	400
90	ROCK EXCAVATION (SANITARY)	CUYD	490
91	TREE ROOT PRUNING (SANITARY)	EACH	6
PART C - LEAD SERVICE LINE IMPROVEMENTS			
92	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOURL	261
93	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (LEAD SERVICE REPLACEMENT), 1-INCH	EACH	86
94	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (LEAD SERVICE REPLACEMENT), 1.5-INCH	EACH	1
95	WATER SERVICE LINE TYPE K - OPEN CUT (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	305
96	WATER SERVICE LINE TYPE K - OPEN CUT (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	20
97	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	5,275
98	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	35
99	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4-INCH	FOOT	435
100	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	30
101	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	30
102	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2-INCH	FOOT	530
103	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	65
104	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD SERVICE REPLACEMENT)	EACH	22
105	UTILITY LOCATION - PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	87
106	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	87
107	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	EACH	87
108	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOURL	174
109	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	87
110	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	25
111	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 2.5-INCH BINDER 1.5-INCH SURFACE	SQYD	100
112	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 3-INCH	SQYD	20
113	PCC DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 6-INCH	SQYD	60
114	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	20
115	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	FOOT	180
116	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SOFT	4,200
117	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	400

CITY OF JOLIET WATER SYSTEM GENERAL NOTES

- VERIFY LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF THE WATER MAIN. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND LOCATE UTILITIES PRIOR TO ANY WORK.
- WHENEVER IT BECOMES NECESSARY TO RELOCATE UNDERGROUND GAS MAINS, TELEPHONE CONDUIT, OR ELECTRICAL LINES OR SUPPORT OR RELOCATE UTILITY POLES, THE UTILITY COMPANY INVOLVED WILL MAKE SUCH RELOCATION OR PROVIDE POLE SUPPORT. NOTIFY THE UTILITY COMPANY PROMPTLY. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT
- WHEREVER OBSTRUCTIONS NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING THE PROGRESS OF THE WORK AND INTERFERE TO SUCH AN EXTENT THAT ALTERATIONS TO THE DRAWINGS ARE REQUIRED, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CHANGES.
- HORIZONTAL AND VERTICAL SEPARATION OF WATER MAINS AND SEWER LINES SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- SANITARY SEWER PIPE SHALL BE PVC ASTM D-3034 WITH A MIN. STR 36 AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- SANITARY SEWER JOINTS SHALL BE RUBBER GASKETS ASTM D-3212 AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- LEAK AND DEFLECTION TESTS SHALL BE PERFORMED ON SANITARY SEWER PIPE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- SANITARY MANHOLES SHALL BE TESTED BY EITHER AN ASTM C-969 LEAKAGE TEST OR AN ASTM C-1234 VACUUM AND AIR TEST IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- PROVIDE 48 HOURS ADVANCE NOTICE TO THE CITY WHEN CONNECTION TO AN EXISTING WATER MAIN WILL BE MADE. COORDINATE SHUTDOWN OF EXISTING WATER MAINS WHEN REQUIRED WITH THE CITY. SCHEDULE THE WORK TO MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS. PROVIDE WRITTEN NOTIFICATION OF SHUTDOWNS TO WATER USERS AFFECTED 24 HOURS IN ADVANCE.
- NOTIFY THE CITY'S PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IF EXISTING LEAD WATER SERVICES ARE DISCOVERED.
- PROVIDE PROPERTY OWNERS ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAYS.
- DO NOT STORE BEDDING AND BACKFILL MATERIALS, PIPES, FITTINGS, VAULTS, OR OTHER MATERIALS IN AREAS THAT WILL OBSTRUCT SIGHT LINES FOR STREETS AND DRIVEWAYS.
- ALL PROPOSED WATER MAIN AND SERVICES UNDER AND WITHIN 2' OF PAVEMENT OR SIDEWALK SHALL BE BACKFILLED WITH TRENCH BACKFILL WHICH SHALL BE CRUSHED STONE, GRADATION CA 6 OR CA 7.
- INSTALL NEW WATER MAIN WITH A MINIMUM OF 5' COVER BELOW EXISTING OR PROPOSED GROUND SURFACE UNLESS GREATER DEPTH IS REQUIRED TO AVOID EXISTING UTILITIES OR WHERE INDICATED ON THE DRAWINGS.
- PROVIDE COMPRESSION TYPE FIRE HYDRANTS WITH A 5/4-INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O-RING SEALS, TWO 2 1/2-INCH HOSE NOZZLES, AND A 4 1/2-INCH PUMPER NOZZLE WITH NATIONAL STANDARD THREADS, A NATIONAL STANDARD OPERATING NUT, AND AN ABOVE GROUND BREAK FLANGE. COLOR FOR HYDRANTS ON POTABLE DISTRIBUTION MAINS SHALL BE RED, HYDRANTS ON RAW WATER MAINS SHALL BE GREEN. COLOR FOR PRIVATE SYSTEM HYDRANTS SHALL BE YELLOW. ACCEPTABLE MANUFACTURERS ARE CLOW MEDALLION, EJ 5BR250, OR MUELLER CENTURION A423.
- PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.
- GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA C515 (DUCTILE IRON BODY), BRONZE FITTED, RESILIENT WEDGE AND SEAT TYPE WITH NON-RISING STEM AND O-RING PACKING. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE A FUSION BONDED EPOXY COATING. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.
- BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH AWWA C504 FOR PRESSURE CLASS 150B, CAST IRON BODY, RUBBER-SEALED, TIGHT CLOSING TYPE SUITABLE FOR BURIED SERVICE. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.
- LOCATE PRESSURE CONNECTIONS, IF INDICATED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, A MINIMUM OF 2' FROM ANY EXISTING REPAIR SLEEVES OR PIPE JOINTS.
- THE CITY OF JOLIET WATER DEPARTMENT SHALL BE RESPONSIBLE FOR COMPLETING ALL TAPS TO EXISTING WATER MAINS. CONTRACTOR WILL BE RESPONSIBLE FOR CALLING 815-724-4230 TO SCHEDULE AN APPOINTMENT WITH THE CITY WATER DEPARTMENT. APPOINTMENTS ARE AVAILABLE ON TUESDAYS AND THURSDAYS.
- SUCCESSFULLY TEST, DISINFECT, AND FLUSH WATER MAIN, AND OBTAIN ACCEPTANCE OF THE WATER MAIN BY THE CITY OF JOLIET, PRIOR TO MAKING WATER SERVICE CONNECTIONS. FLUSH PIPELINES TO OBTAIN A VELOCITY OF 2.5 FT/S PER AWWA STANDARD C651.
- USE MECHANICAL JOINT FITTINGS TO PLUG/CAP EXISTING WATER MAINS TO REMAIN IN SERVICE AND FOR EXISTING WATER MAINS TO BE ABANDONED. PLUGS/CAPS ON WATER MAIN TO REMAIN IN SERVICE SHALL INCLUDE AN ADEQUATELY SIZED CAST-IN-PLACE CONCRETE THRUST BLOCK.
- AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS THE PROJECT IS COMPLETED. ANY CHANGE IN THE LENGTH, LOCATION, OR ALIGNMENT SHALL BE SHOWN IN RED.
- EROSION CONTROL WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN IEPA/WPC/87-012 OR CURRENT EDITION.
- REPLACE ALL CONCRETE SIDEWALKS DISTURBED BY CONSTRUCTION TO THE NEAREST CONSTRUCTION JOINT. A MAXIMUM LENGTH OF TEN LINEAL FEET PER CROSSING WILL BE UTILIZED FOR PAY QUANTITY CALCULATIONS.
- PAVEMENT RESTORATION WILL BE MEASURED IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. ALL AREAS DISTURBED WILL BE REPLACED, BUT THE MAXIMUM ALLOWABLE WIDTHS USED FOR PAY QUANTITY CALCULATIONS WILL BE 6 FEET CENTERED ON THE PIPE. IF THE CONTRACTOR RELOCATES THE TRENCH AWAY FROM THE CURB AND GUTTER, THE PAVEMENT PATCH WILL EXTEND FROM THE SAWCUT IN THE EXISTING PAVEMENT TO THE FACE OF THE GUTTER AND THE MAXIMUM ALLOWABLE WIDTH OF 6 FEET WILL BE USED FOR PAY QUANTITY CALCULATIONS.
- ALL STREETS SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE EXCEPT FOR PLEASANT STREET SHALL HAVE 4 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
- IT SHALL BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE EXCLUSIVE DUTY AND RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION. IT SHALL EXCLUSIVELY BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO INVESTIGATE AND ASCERTAIN THE CURRENT PHYSICAL STATE AND OPERATIONAL STATUS OF THE CITY'S WATER SUPPLY SYSTEM AND THE CITY'S SANITARY SEWER SYSTEM, INCLUDING WHETHER A WATER MAIN OR OTHER VESSEL IS OPERATIONAL, CONTAINS WATER, IS PRESSURIZED, OR IS OTHERWISE SAFE TO ALTER. ANY INFORMATION PROVIDED BY THE CITY, OR ITS EMPLOYEES AND CONSULTANTS, REGARDING THE STATE OF ITS WATER SUPPLY AND SANITARY SEWER SYSTEMS IS PROVIDED AS A COURTESY TO THE CONTRACTOR BUT IS NOT WARRANTED TO BE TRUE AND MAY NOT BE RELIED ON BY THE CONTRACTOR IN SATISFACTION OF, OR TO DIMINISH, ITS EXCLUSIVE DUTY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS AND ITS EXCLUSIVE RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION.
- WATER SERVICE INSTALLATION WORK MUST BEGIN WITHIN 5 DAYS OF SATISFACTORY SAMPLE RESULTS AND IEPA APPROVAL. WATER SERVICE INSTALLATION WORK MUST BE COMPLETED WITHIN 15 WORKING DAYS AFTER RECEIVING THE OPERATING PERMIT APPROVAL FROM IEPA, INCLUDING PARTIAL APPROVALS. FINAL PAVEMENT RESTORATION MUST BE COMPLETED WITHIN 21 DAYS AFTER THE LAST COMPLETED WATER SERVICE CONNECTION ON ANY ONE STREET OR MOVING THE EXCAVATION CREW AND EQUIPMENT TO ANOTHER STREET. THE CONTRACTOR HAS THE OPTION TO INSTALL TEMPORARY PAVEMENT AT NO ADDITIONAL COST TO THE CITY WITHIN 7 CALENDAR DAYS. THE CITY CAN STOP OPERATIONS UNTIL TEMPORARY PAVEMENT IS PLACED OR PERMANENT PAVEMENT RESTORATION IS COMPLETE.
- CONTRACTOR TO DISTRIBUTE DOOR HANGERS AT VARIOUS MILESTONES DURING THE PROJECT. DOOR HANGERS WILL BE PROVIDED BY THE OWNER. DOOR HANGERS MUST BE DISTRIBUTED AT THE FOLLOWING MILESTONES:
 - ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
 - 48 HOURS IN ADVANCE OF WATER MAIN SHUTDOWNS TO ALL AFFECTED STRUCTURES (THE SAME STRUCTURE MAY RECEIVE MORE THAN ONE DOOR HANGER).
 - 48 HOURS IN ADVANCE OF WATER SERVICE LINE REPLACEMENTS.
 - ONE WEEK PRIOR TO RESTORATION ACTIVITIES ON ANY STREET.

FINAL DESIGN FOR BIDDING



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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2690-0123

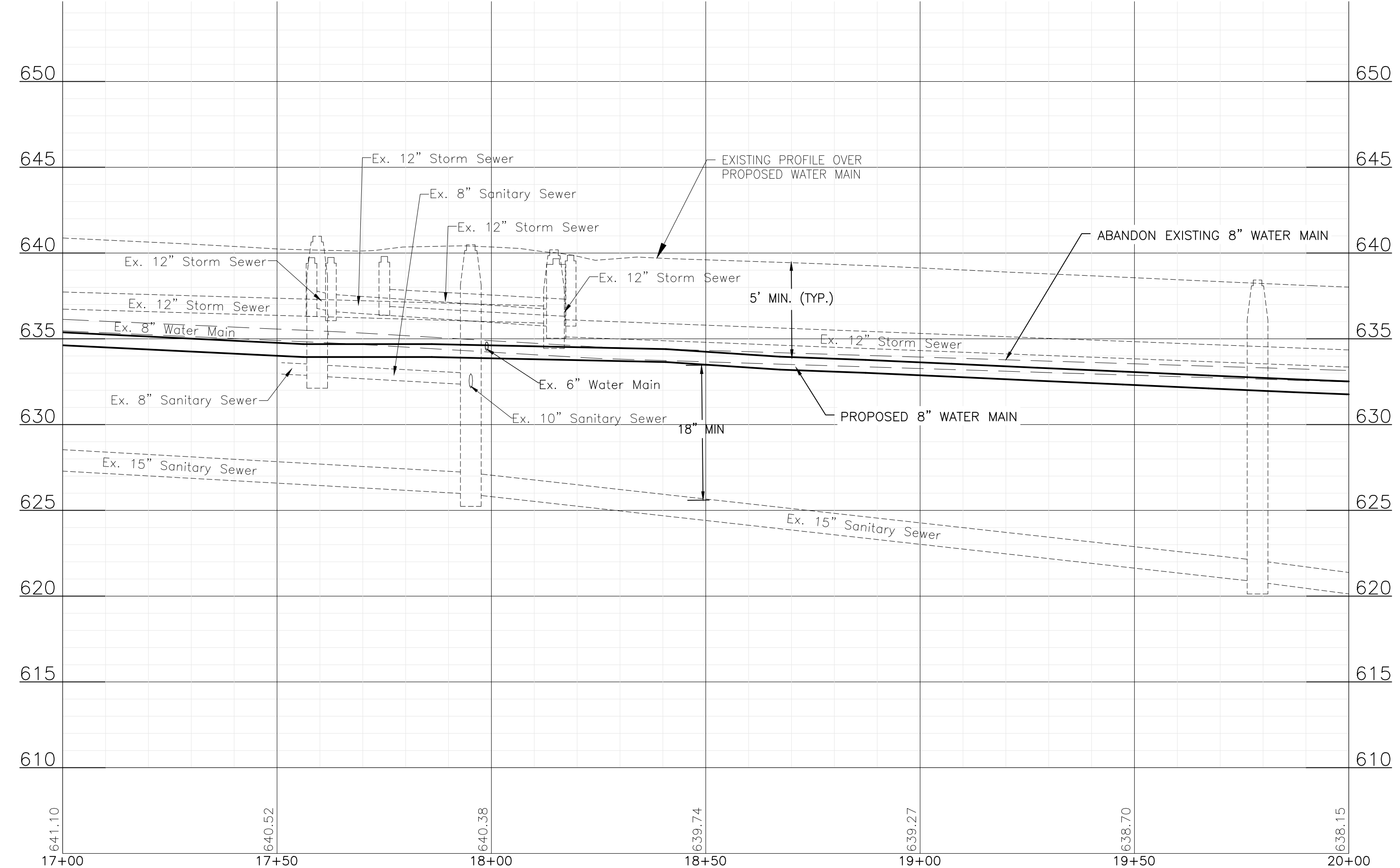
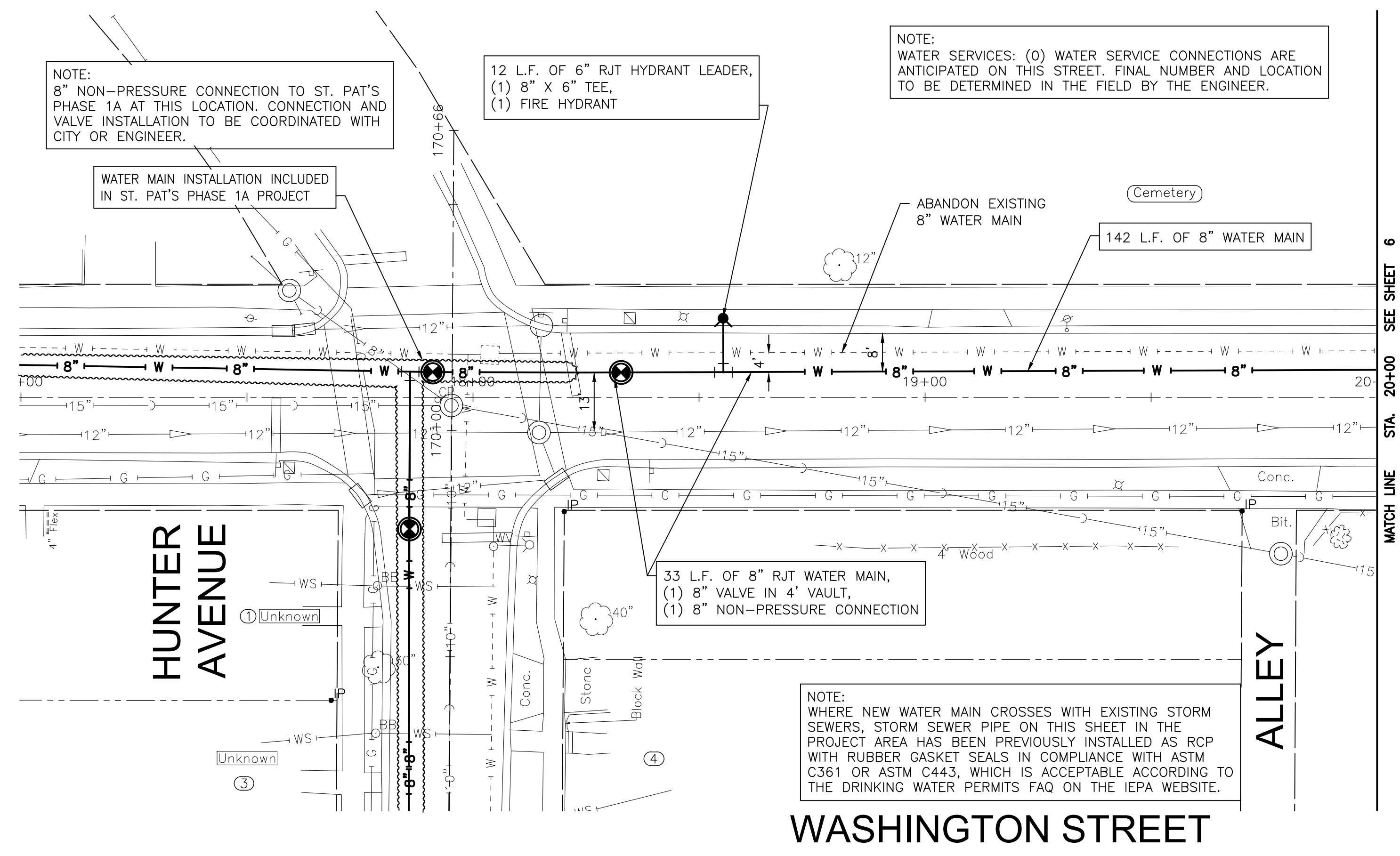
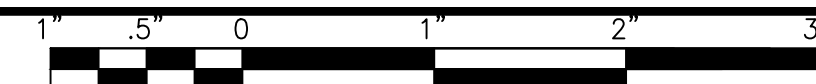
GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: 1" = 20' PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	4
CHECKED - LMS		
DATE - 11/07/22		

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CITY OF JOLIET CONTRACT NO. 2690-0123

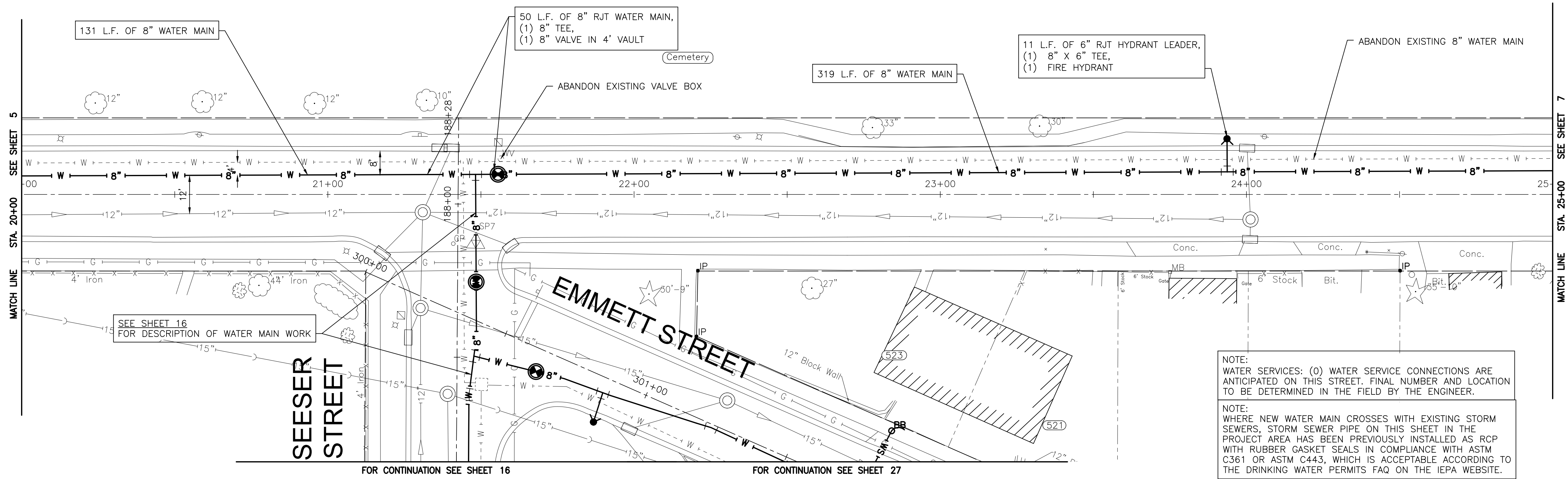
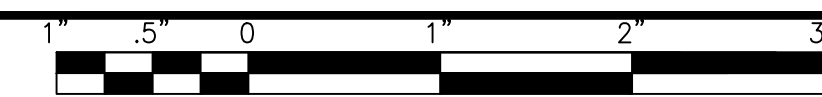
WASHINGTON STREET STA. 15+00 TO STA. 20+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 211917

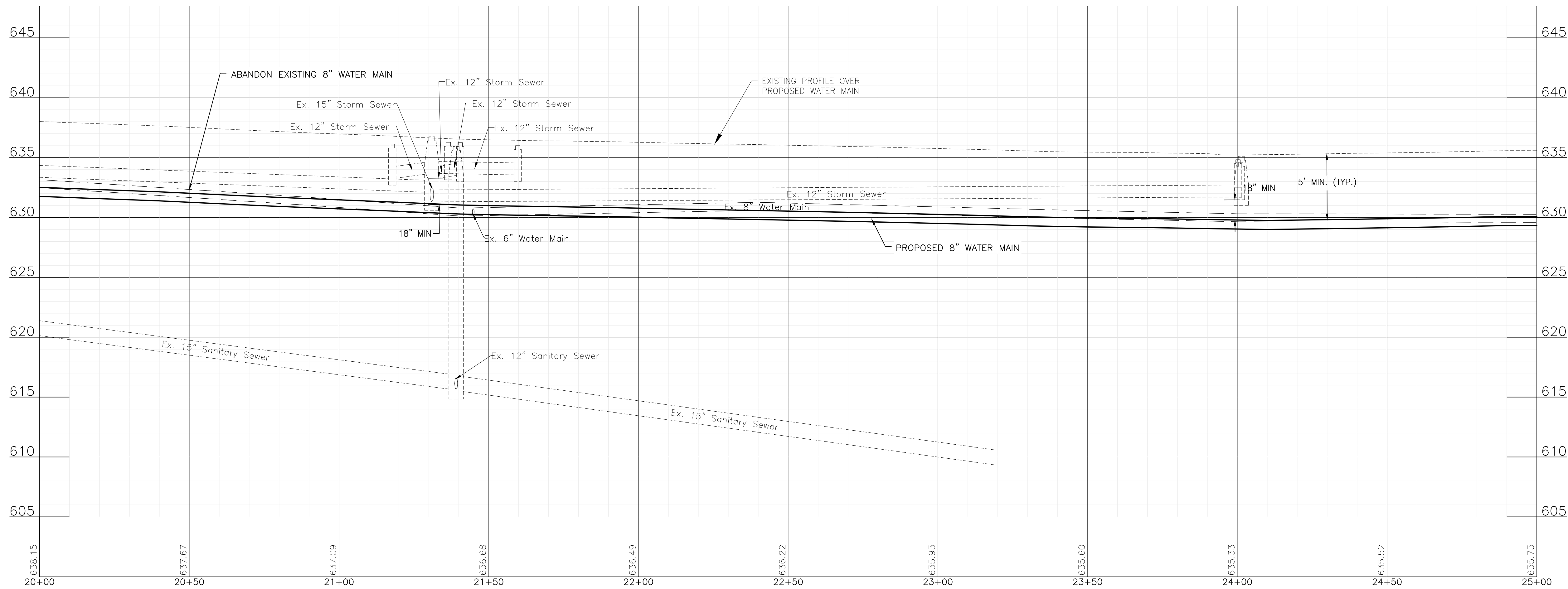
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DRAWN - JJS	33	5
CHECKED - LMS		
DATE - 11/07/22		

WASHINGTON STREET



NOTE:
WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.



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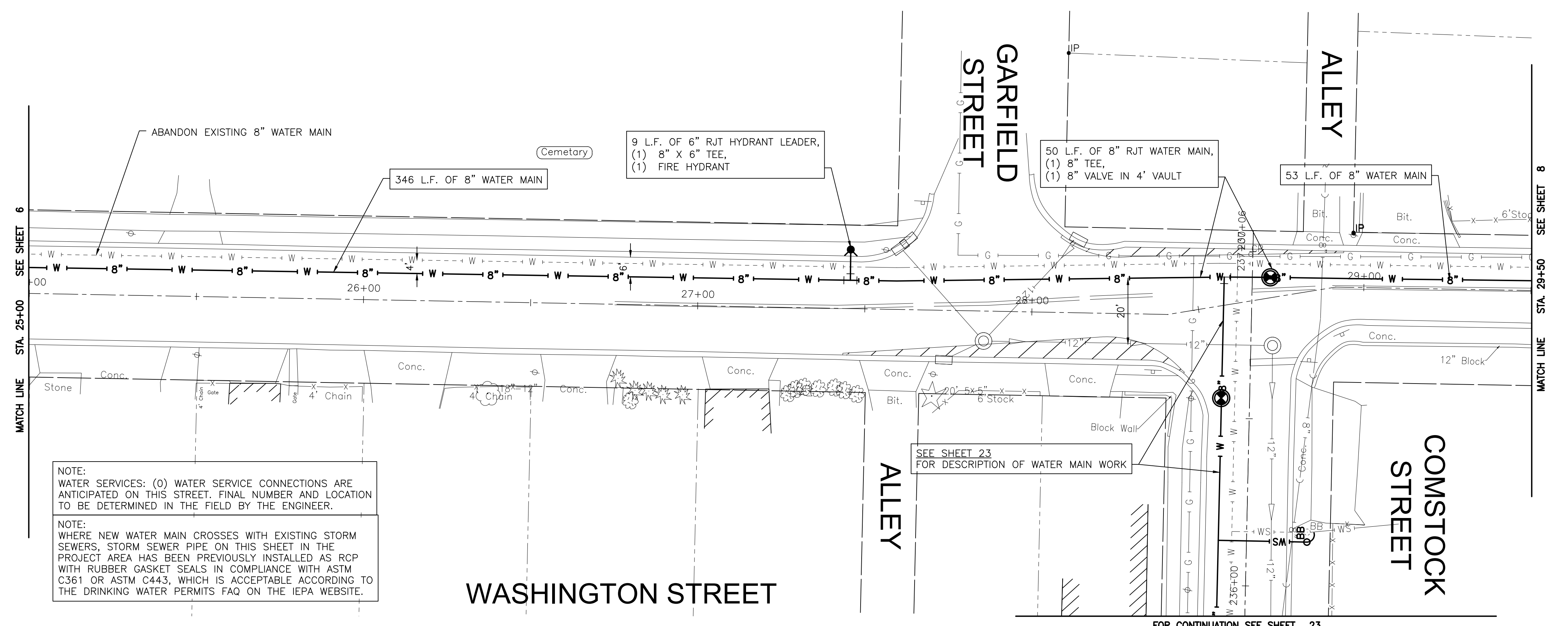
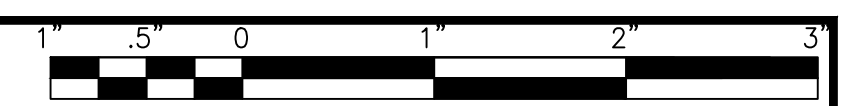


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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

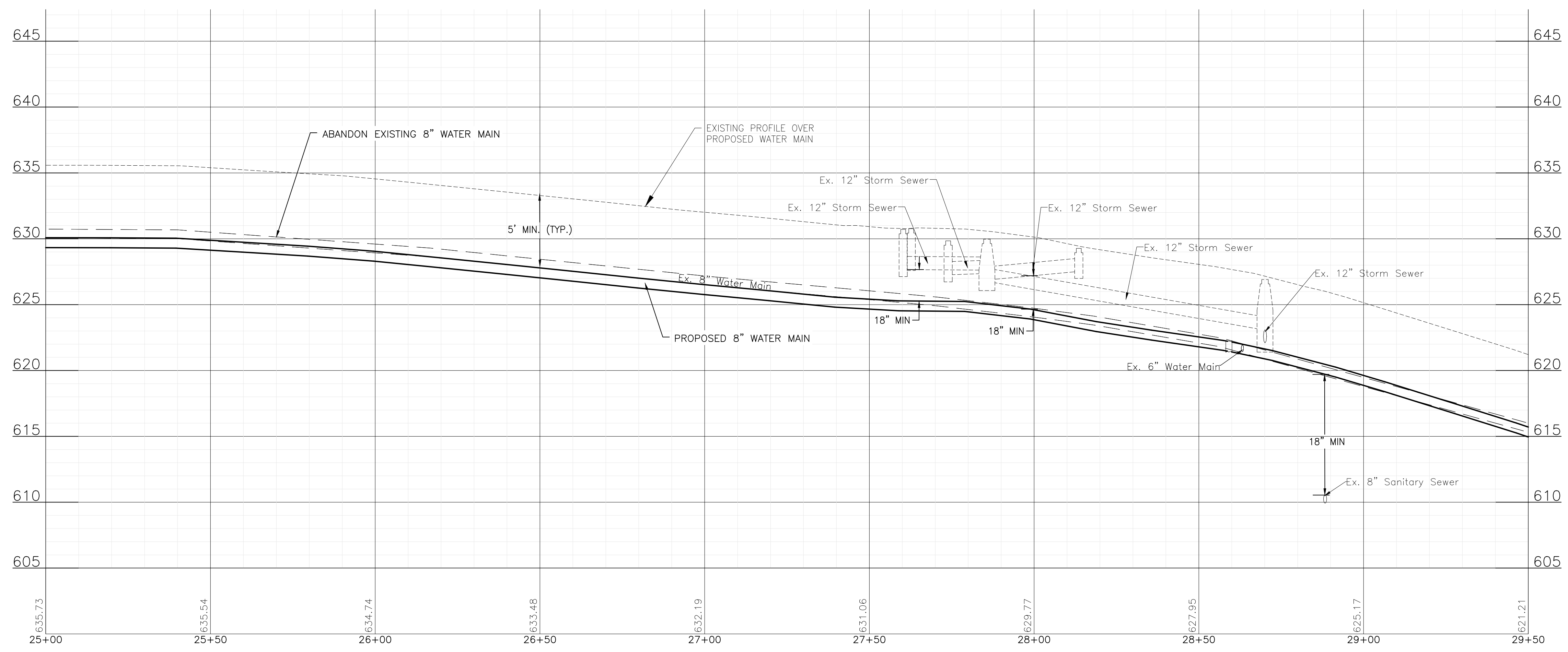
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SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 211917	DRAWN - JJS	33	6
		CHECKED - LMS		
		DATE - 11/07/22		

FINAL DESIGN FOR BIDDING



NOTE:
 WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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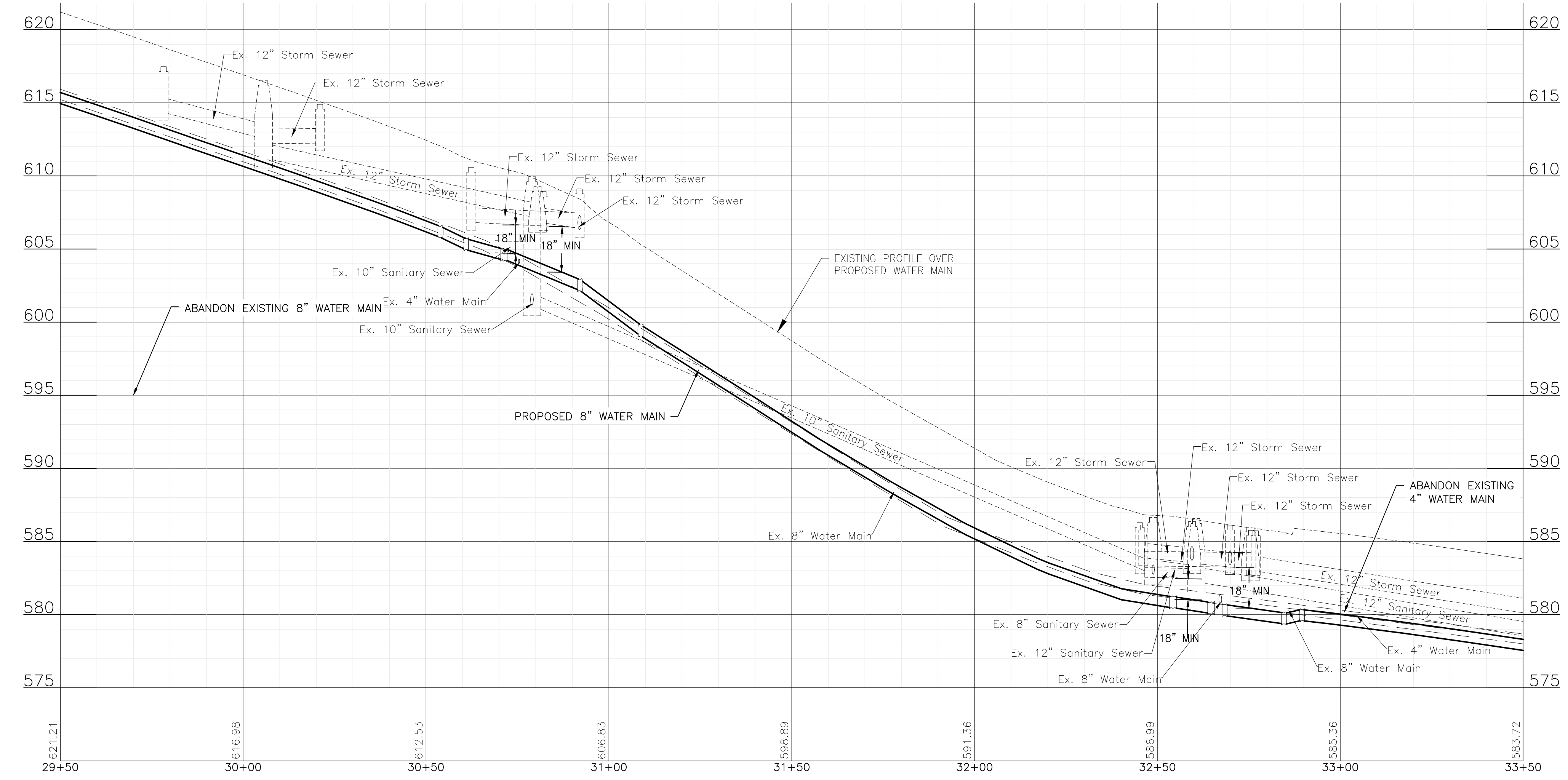
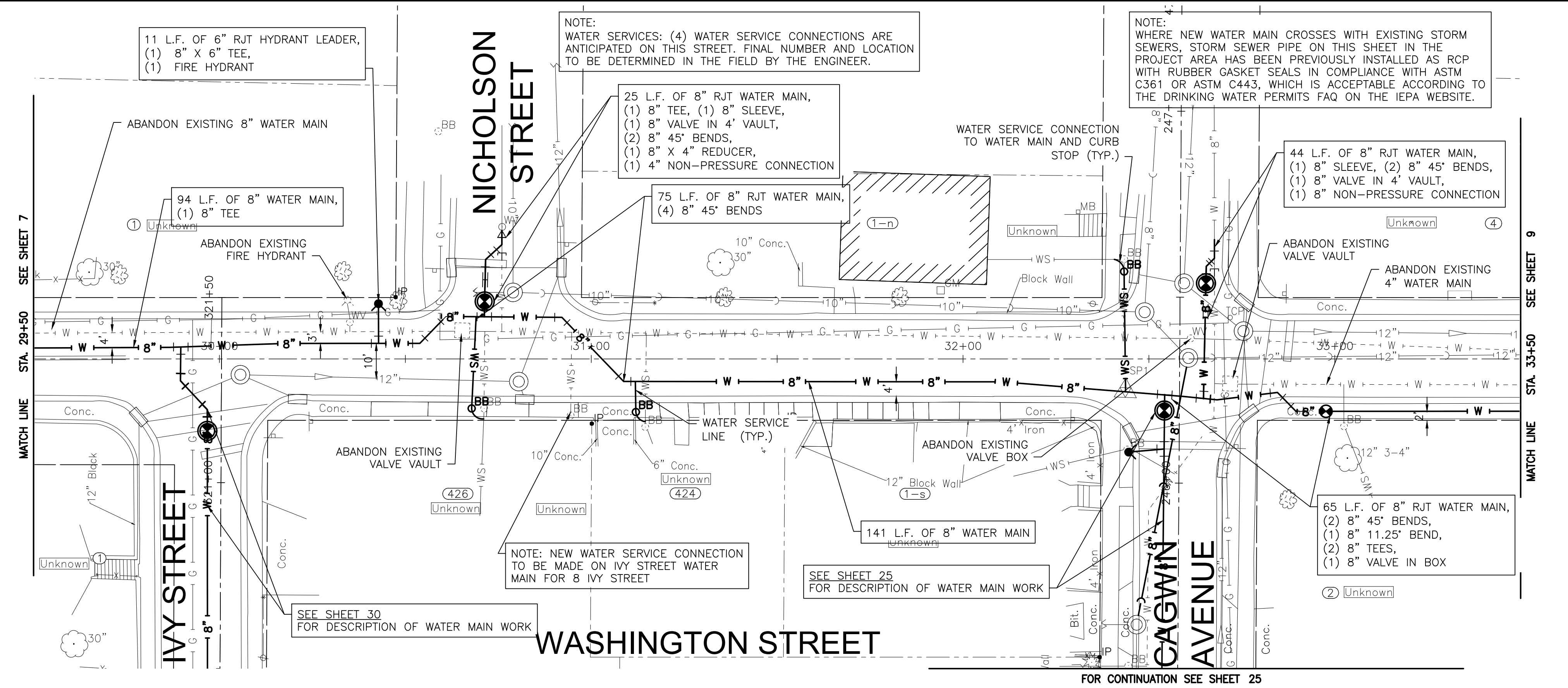
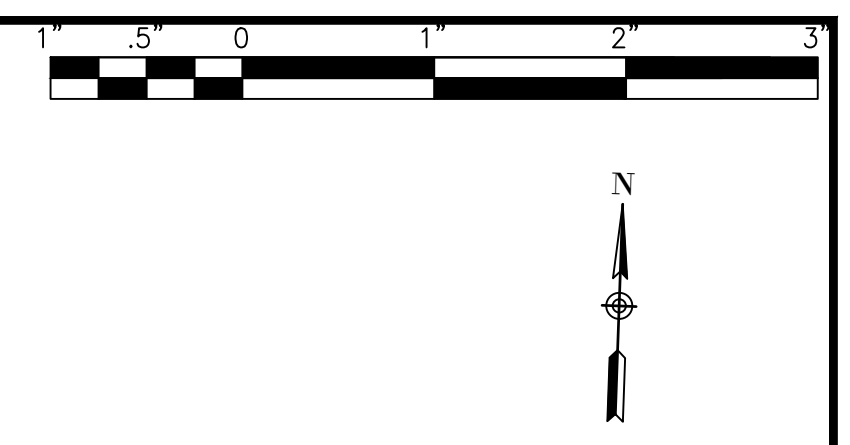
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ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

WASHINGTON STREET STA. 25+00 TO STA. 29+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	7
CHECKED - LMS		
DATE - 11/07/22		

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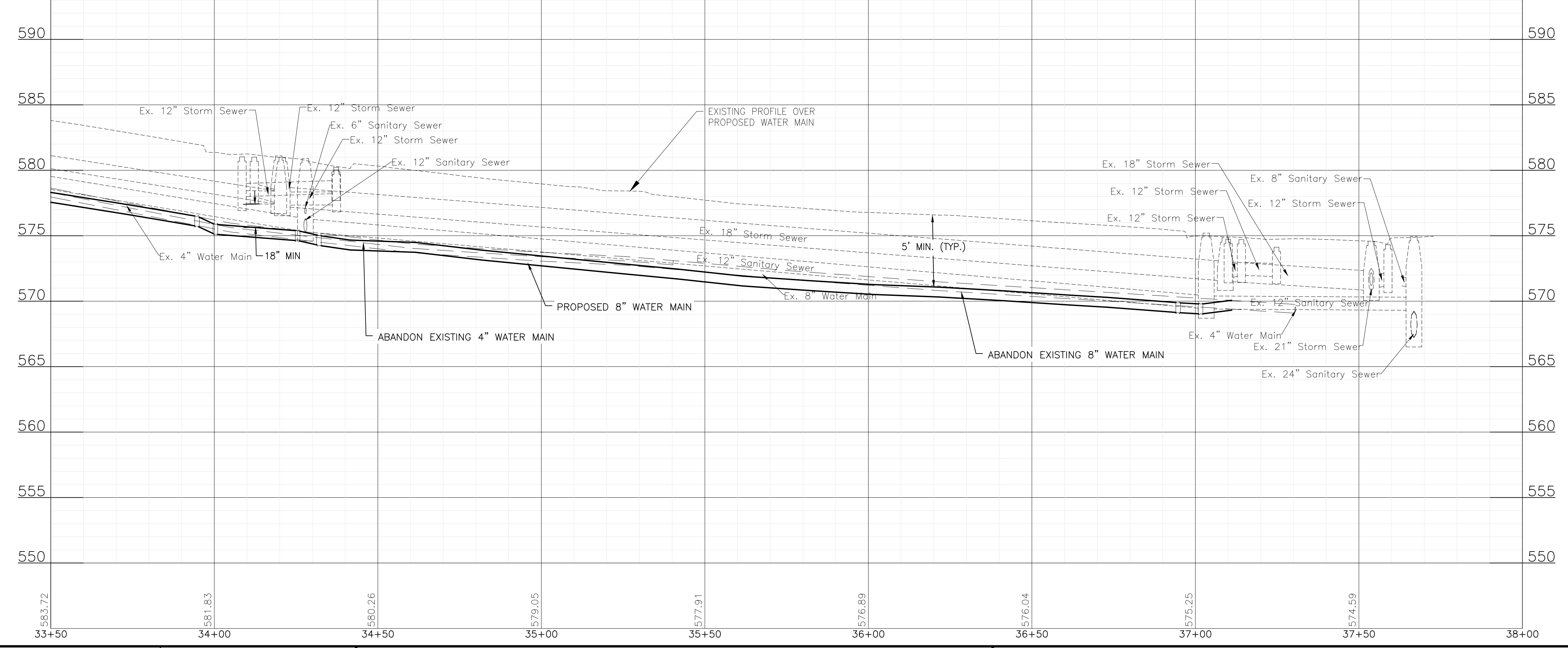
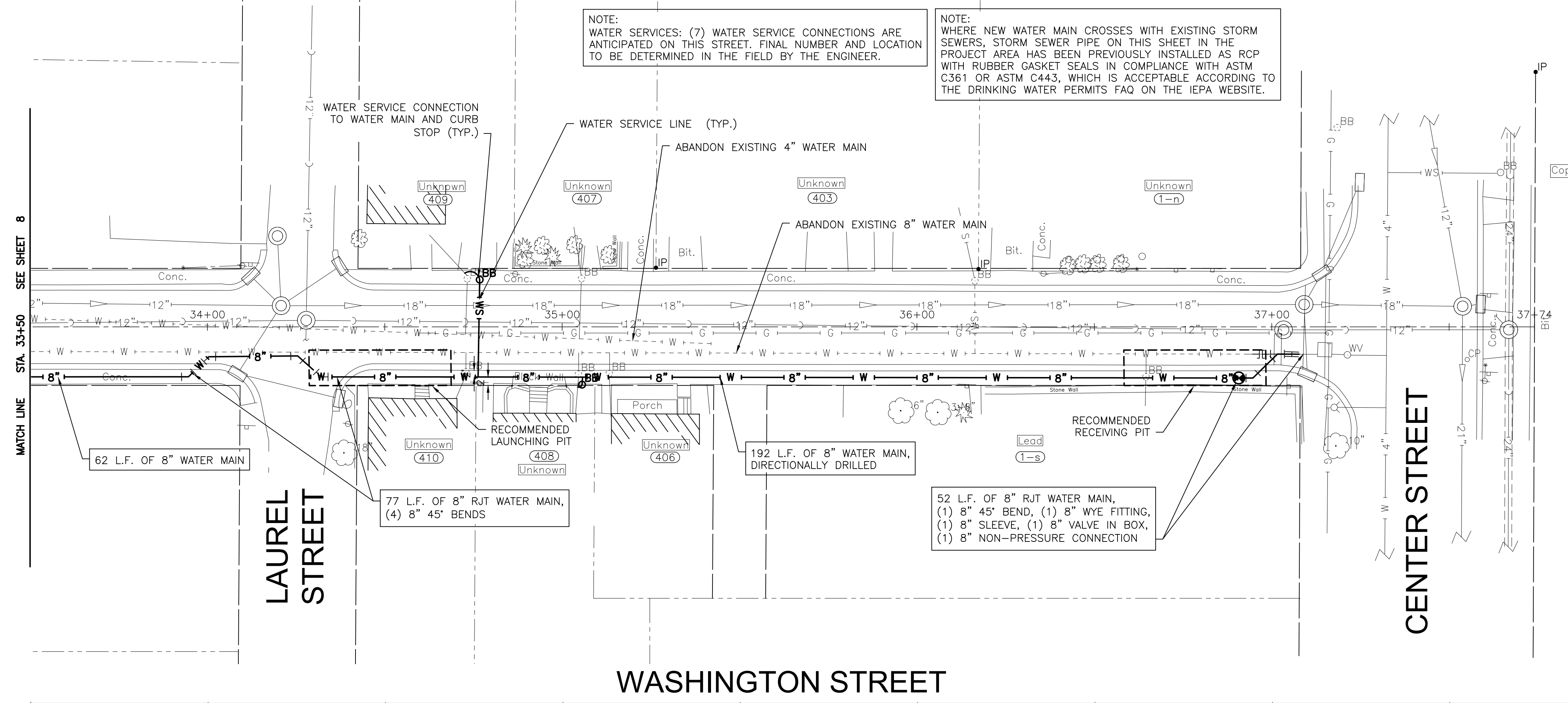
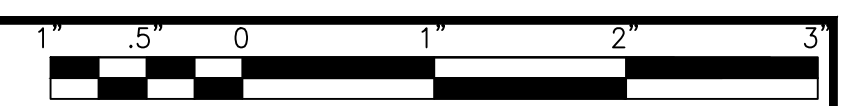
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ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

WASHINGTON STREET STA. 29+50 TO STA. 33+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	8
CHECKED - LMS		
DATE - 11/07/22		



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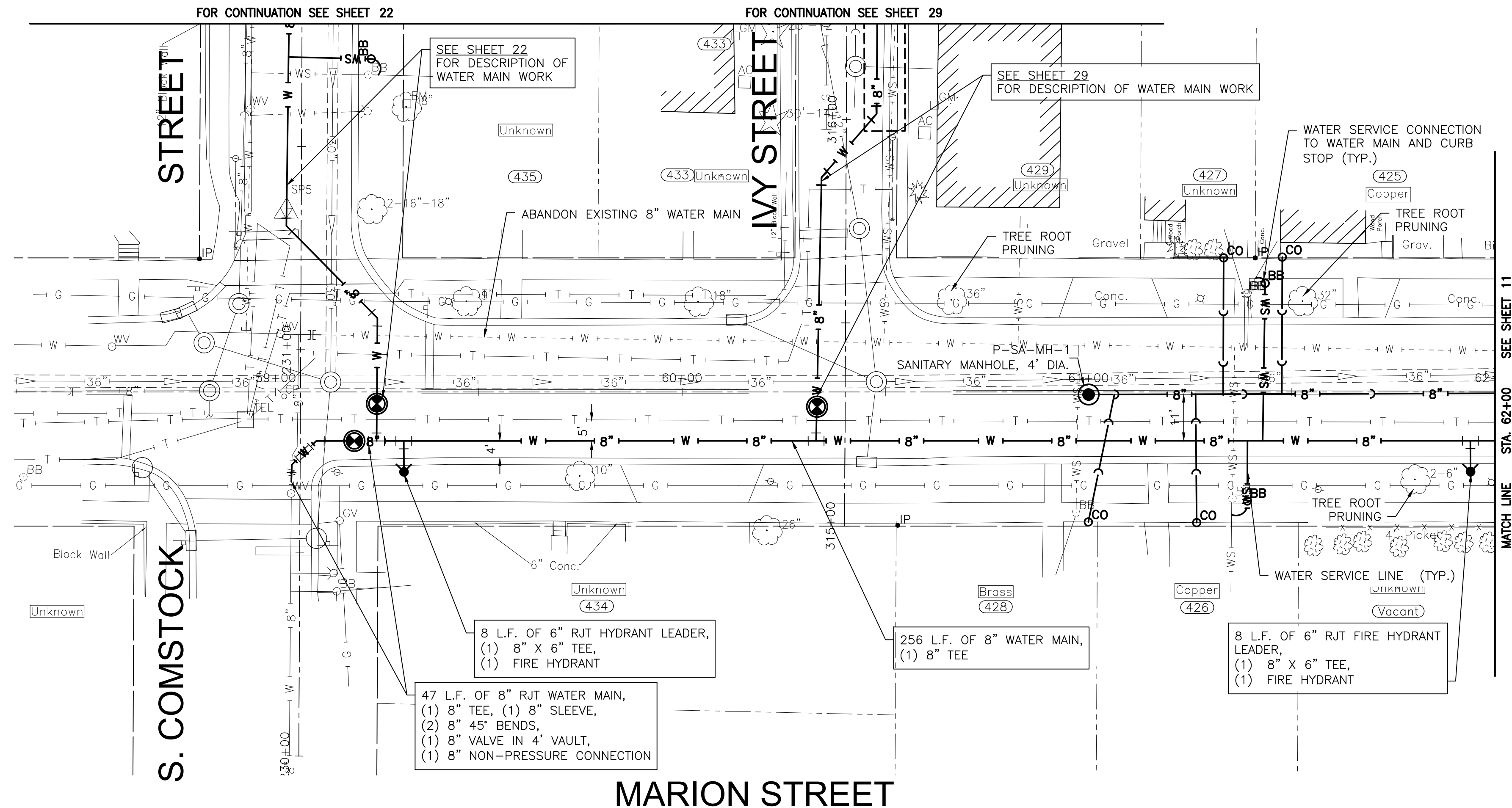
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ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

WASHINGTON STREET STA. 33+50 TO STA. 38+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
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CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING

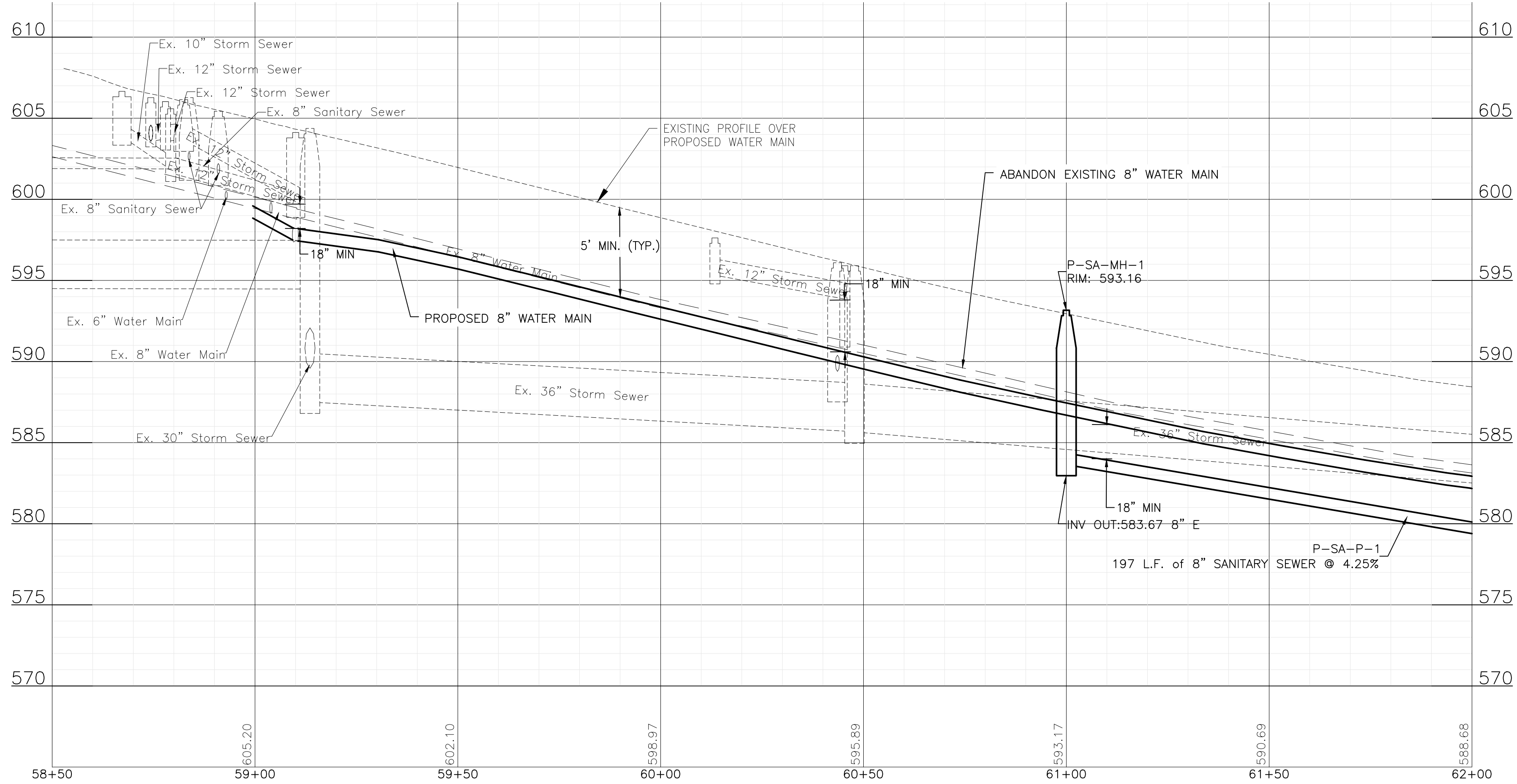
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NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

NOTE:
WATER SERVICES: (6) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
SANITARY SERVICES: (4) SANITARY SERVICE STUBS ARE ANTICIPATED ON THIS STREET AT 428, 426, 427, AND 425 W. MARION.



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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

MARION STREET STA. 58+00 TO STA. 62+00 PLAN AND PROFILE

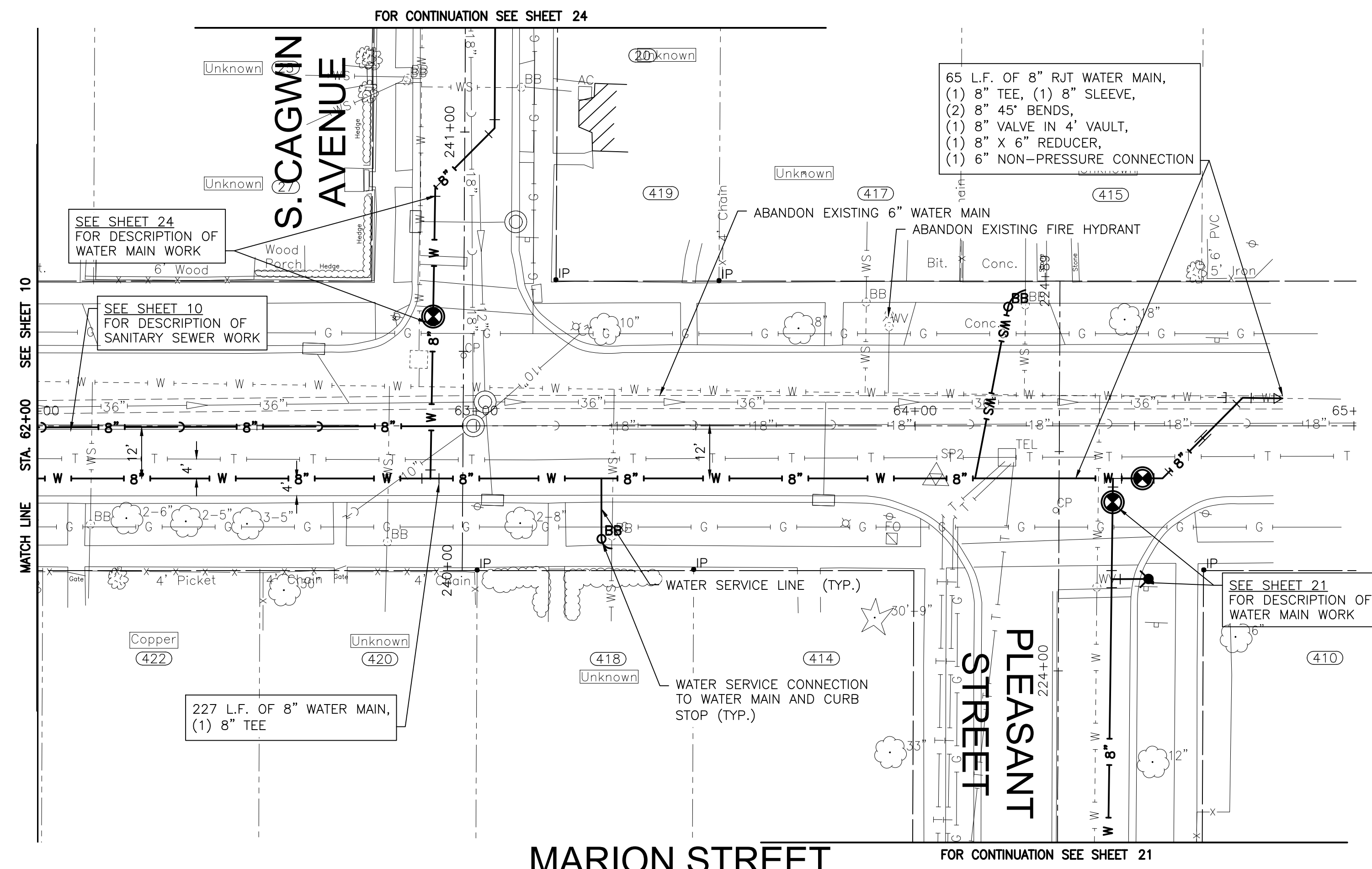
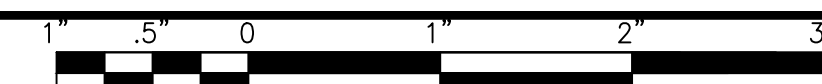
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PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
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DATE - 11/07/22		

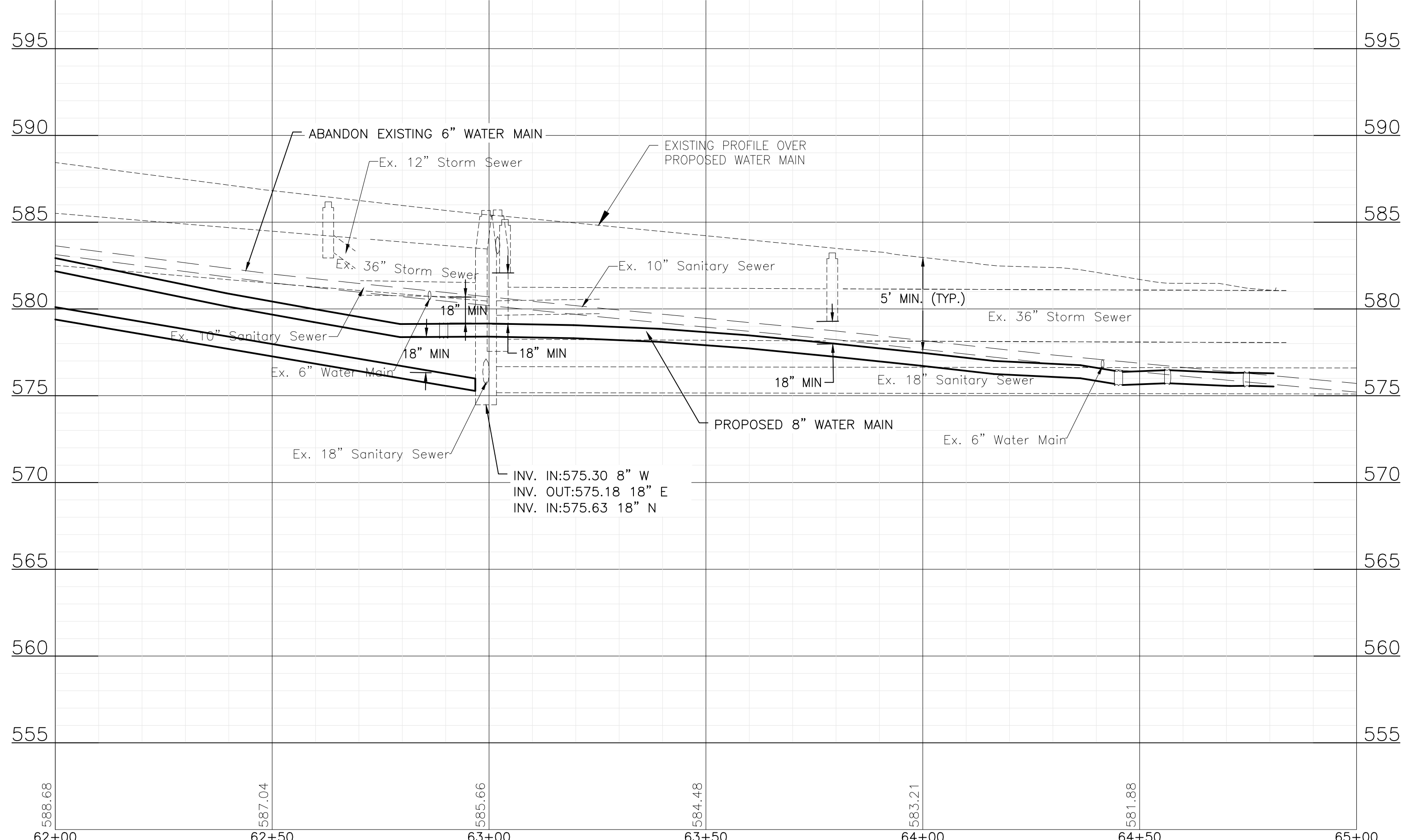
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NOTE:
 WATER SERVICES: (5) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
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CITY OF JOLIET, ILLINOIS
 ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2690-0123

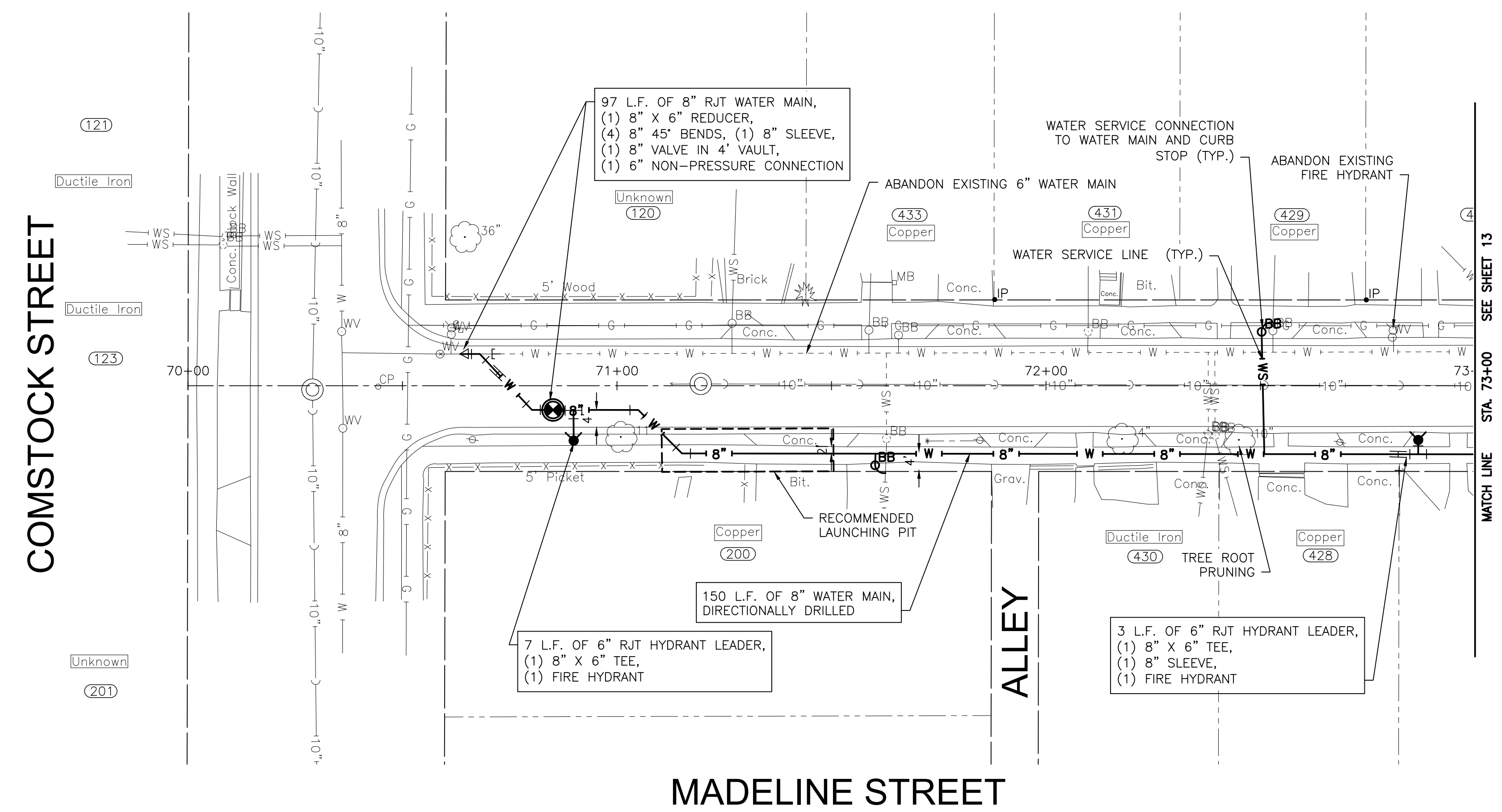
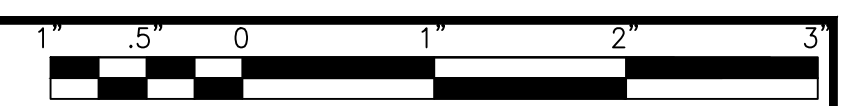
MARION STREET STA. 62+00 TO STA.65+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	11
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING



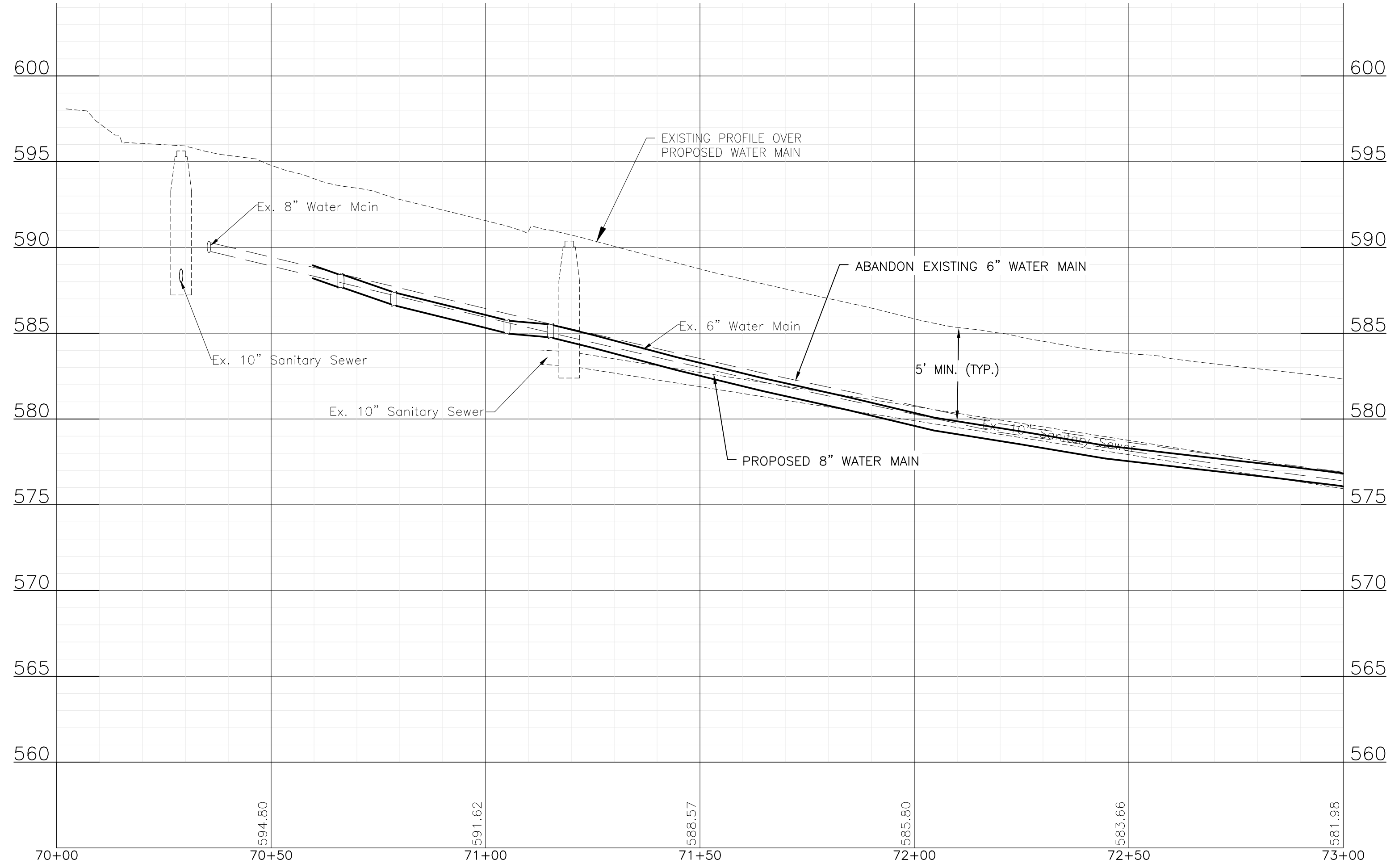
NOTE:
WATER SERVICES: (7) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

COMSTOCK STREET

ALLEY

MADELINE STREET



P:\JOLIC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG MADELINE STREET STA. 70+00 TO 73+00 PLAN AND PROFILE
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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

MADELINE STREET STA. 70+00 TO 73+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	12
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING

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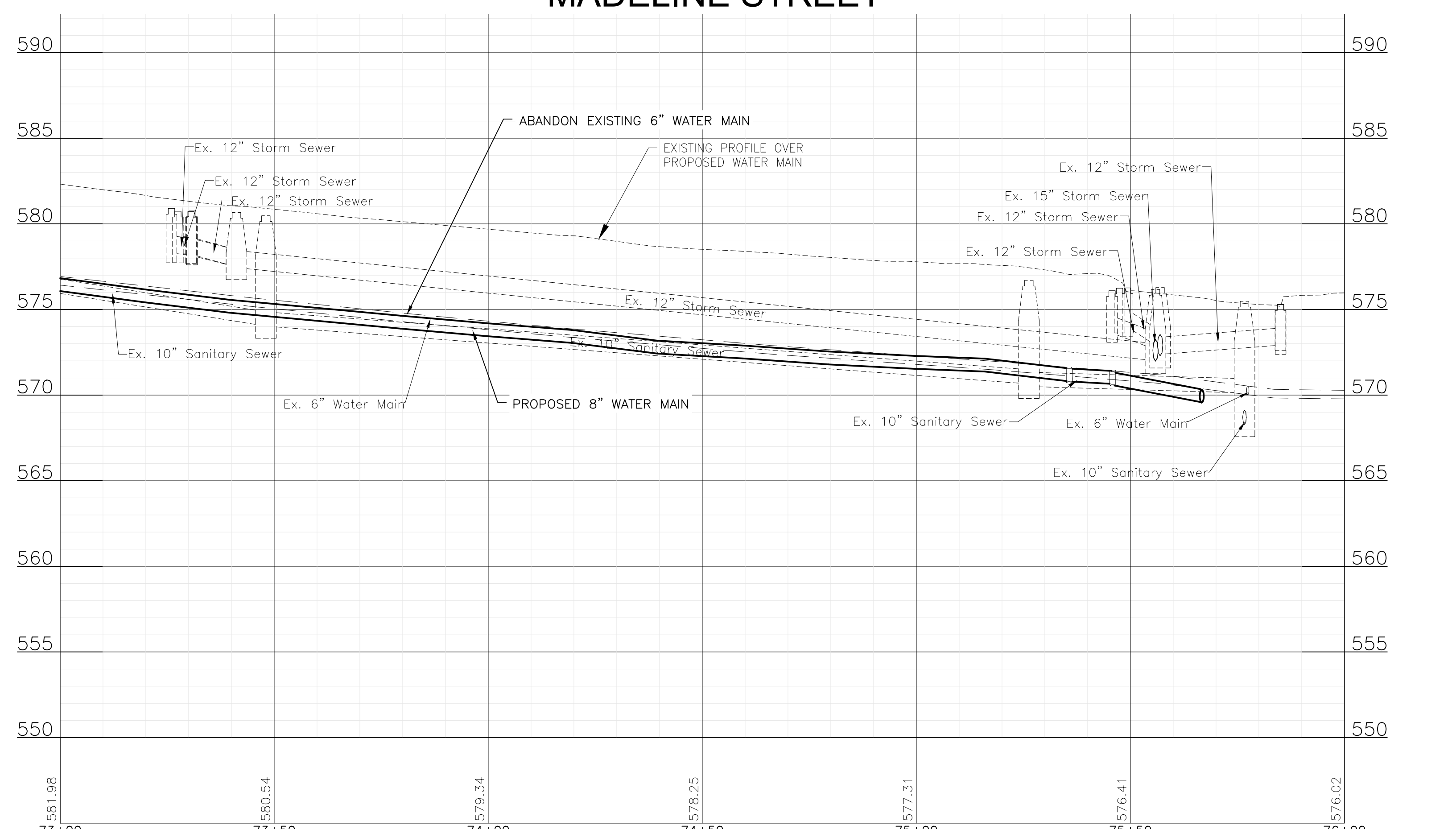
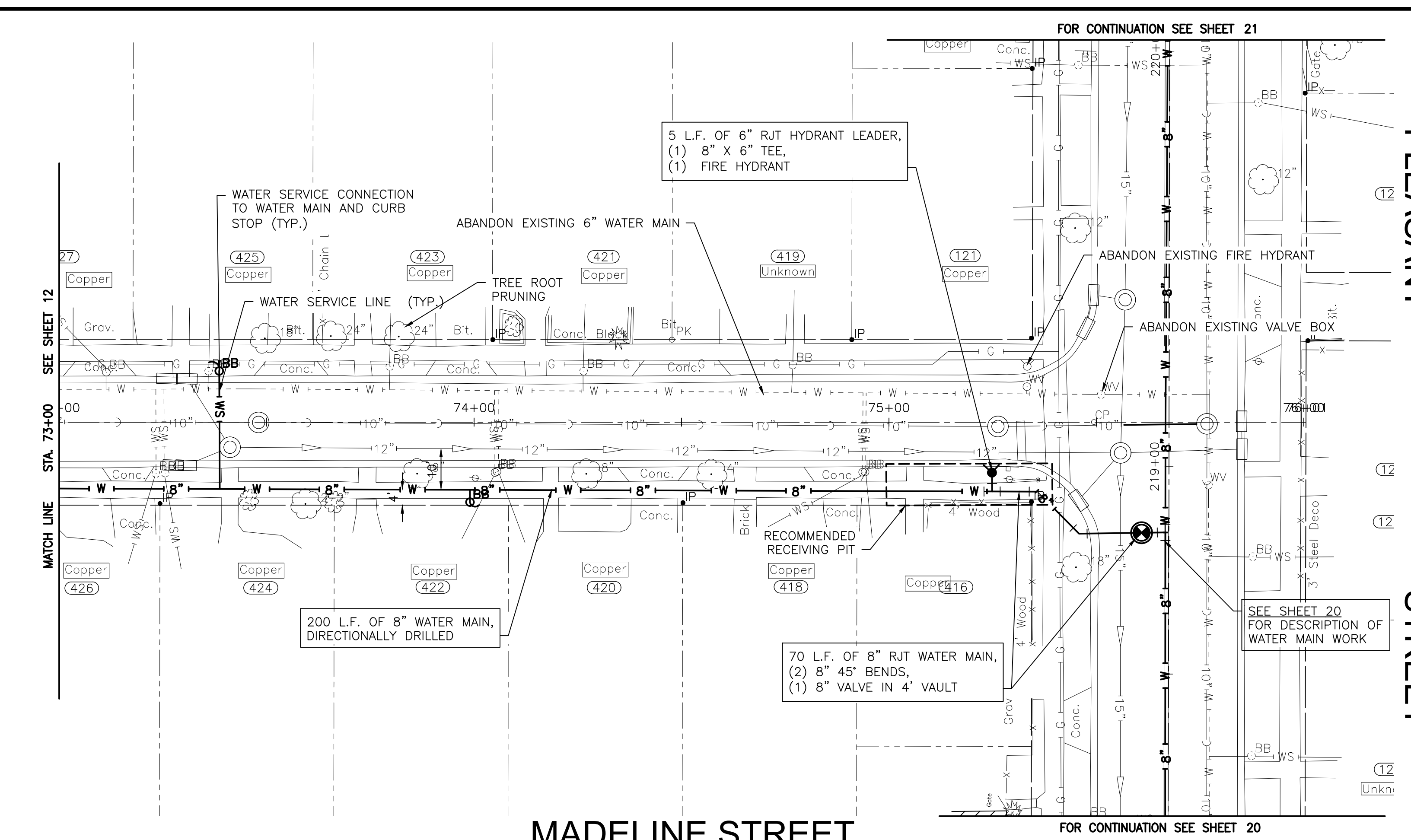


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**CITY OF JOLIET, ILLINOIS
 ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2690-0123**

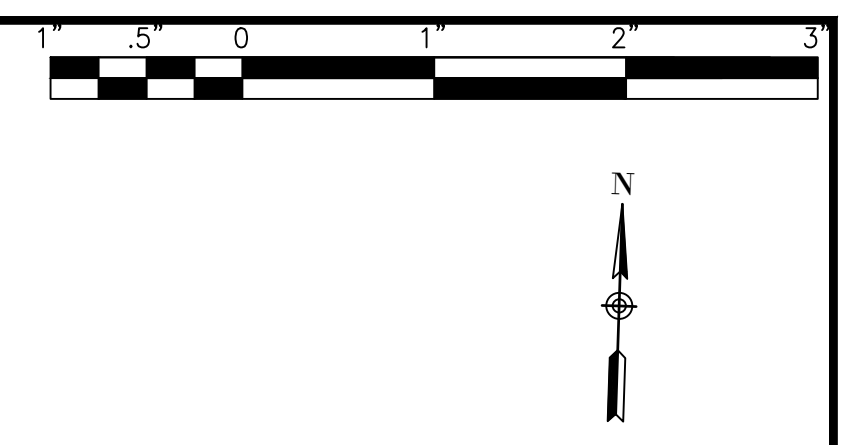
MADELINE STREET STA. 73+00 TO STA. 76+00 PLAN AND PROFILE	
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	13
CHECKED - LMS		
DATE - 11/07/22		



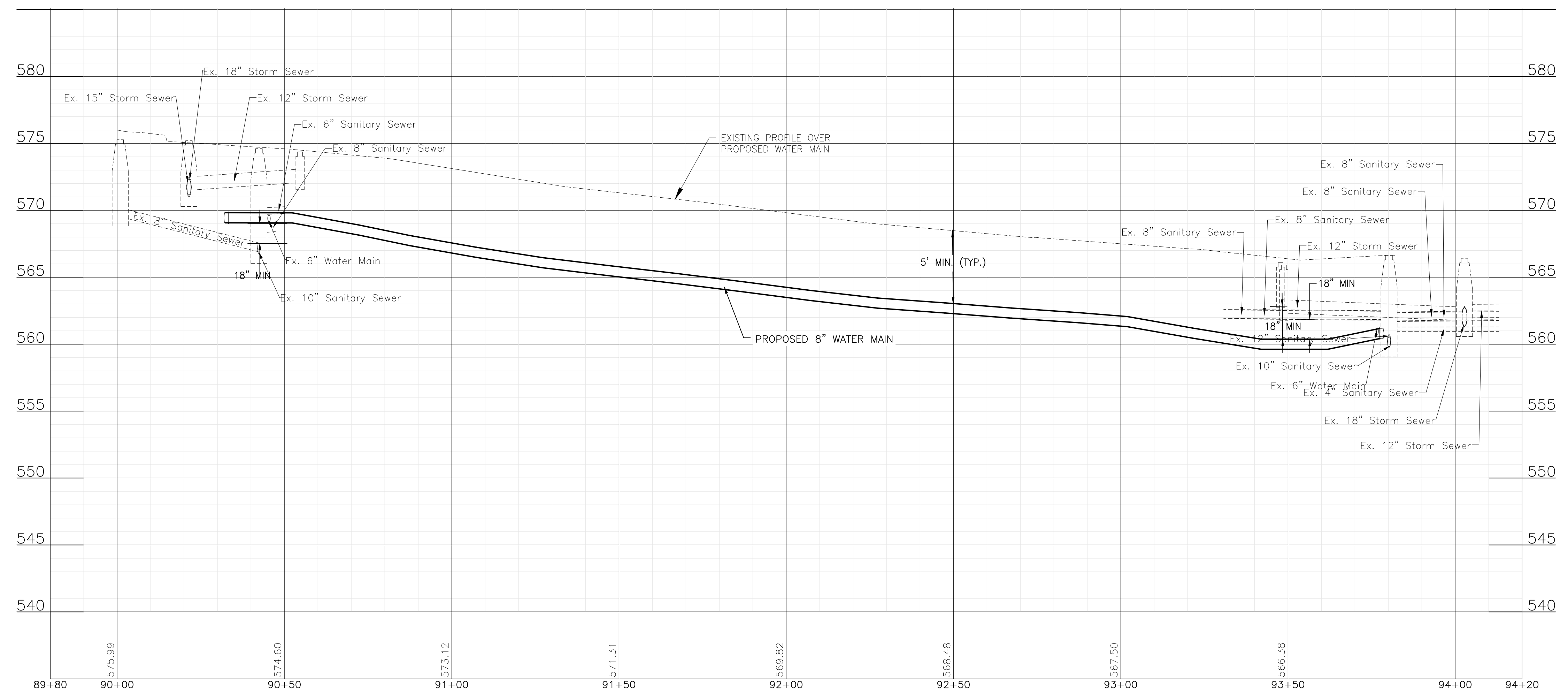
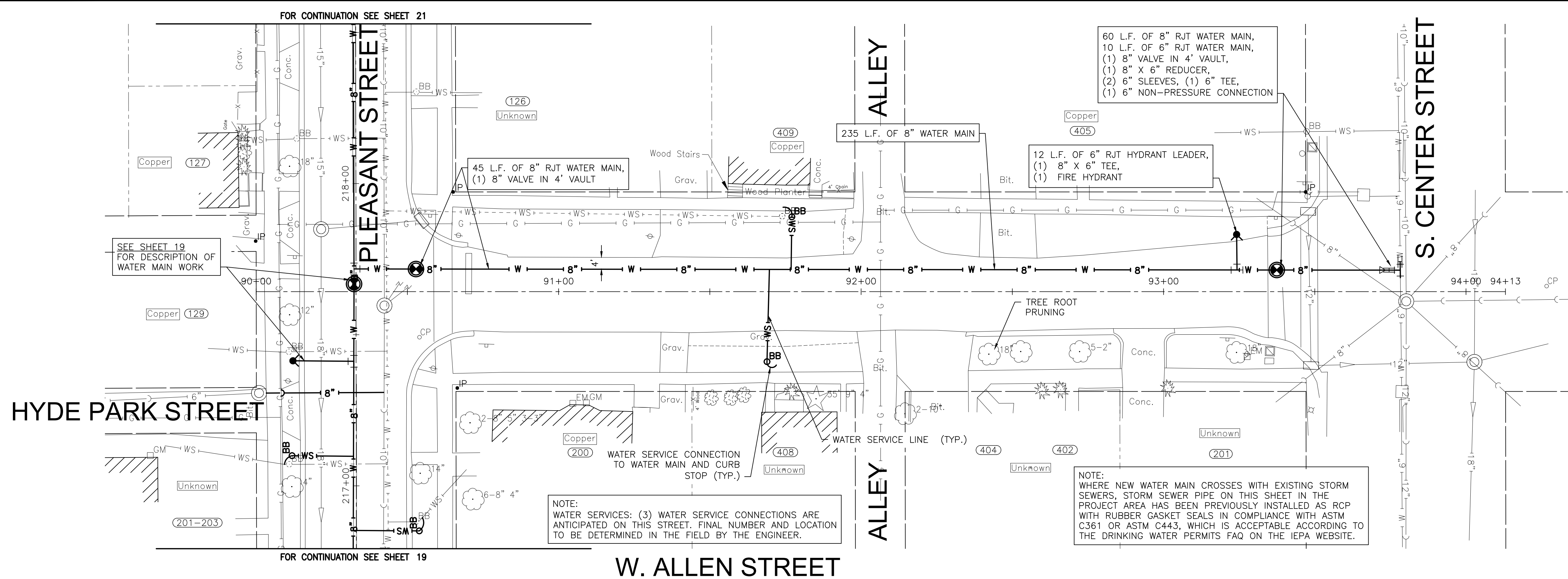
NOTE:
 WATER SERVICES: (1) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.



FINAL DESIGN
 FOR BIDDING

P:\JOL\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG E. ALLEN STREET STA. 90+00 TO STA. 95+00 PLAN AND PROFILE
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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

E. ALLEN STREET STA. 90+00 TO STA. 95+00 PLAN AND PROFILE

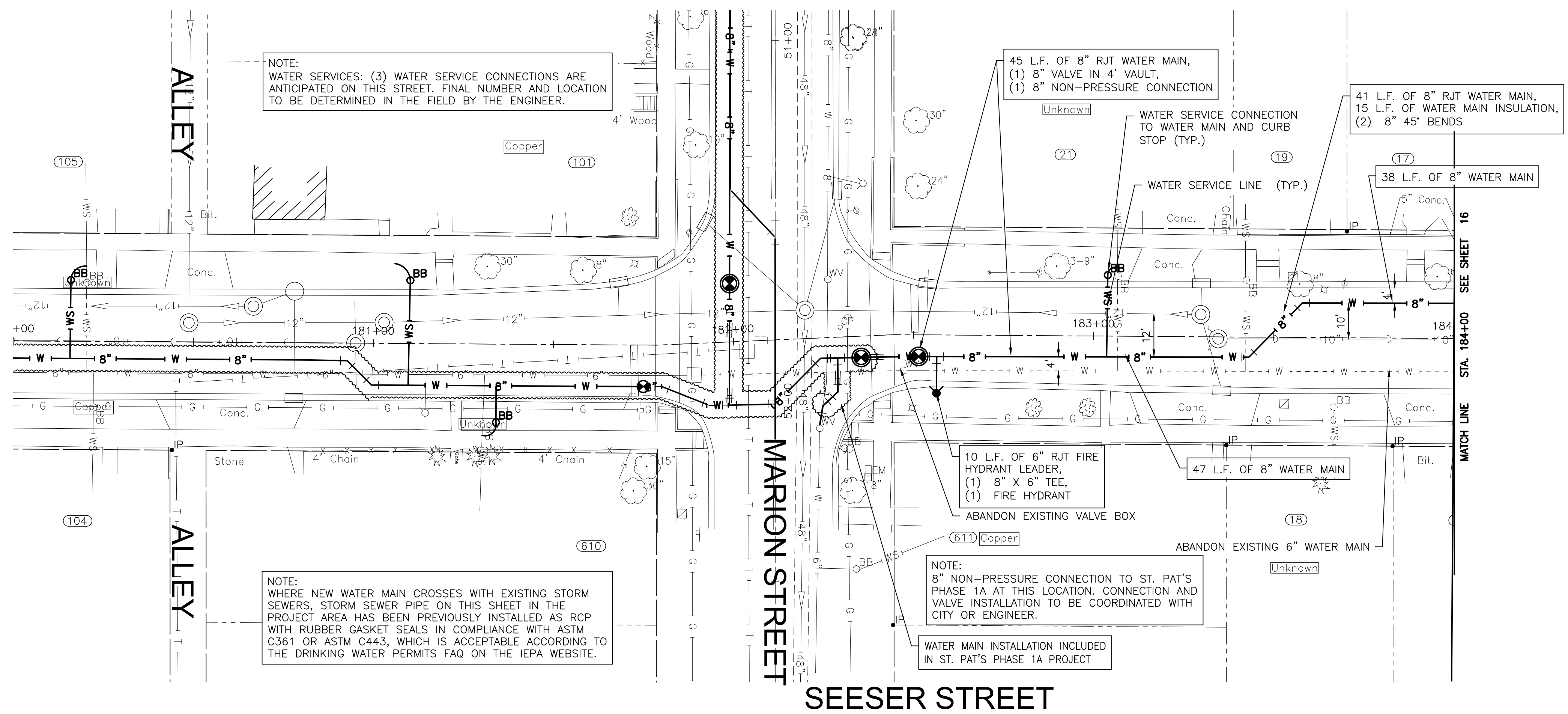
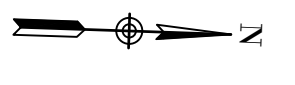
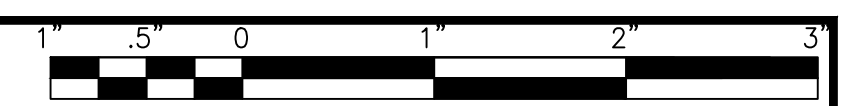
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 211917

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	14
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN
FOR BIDDING

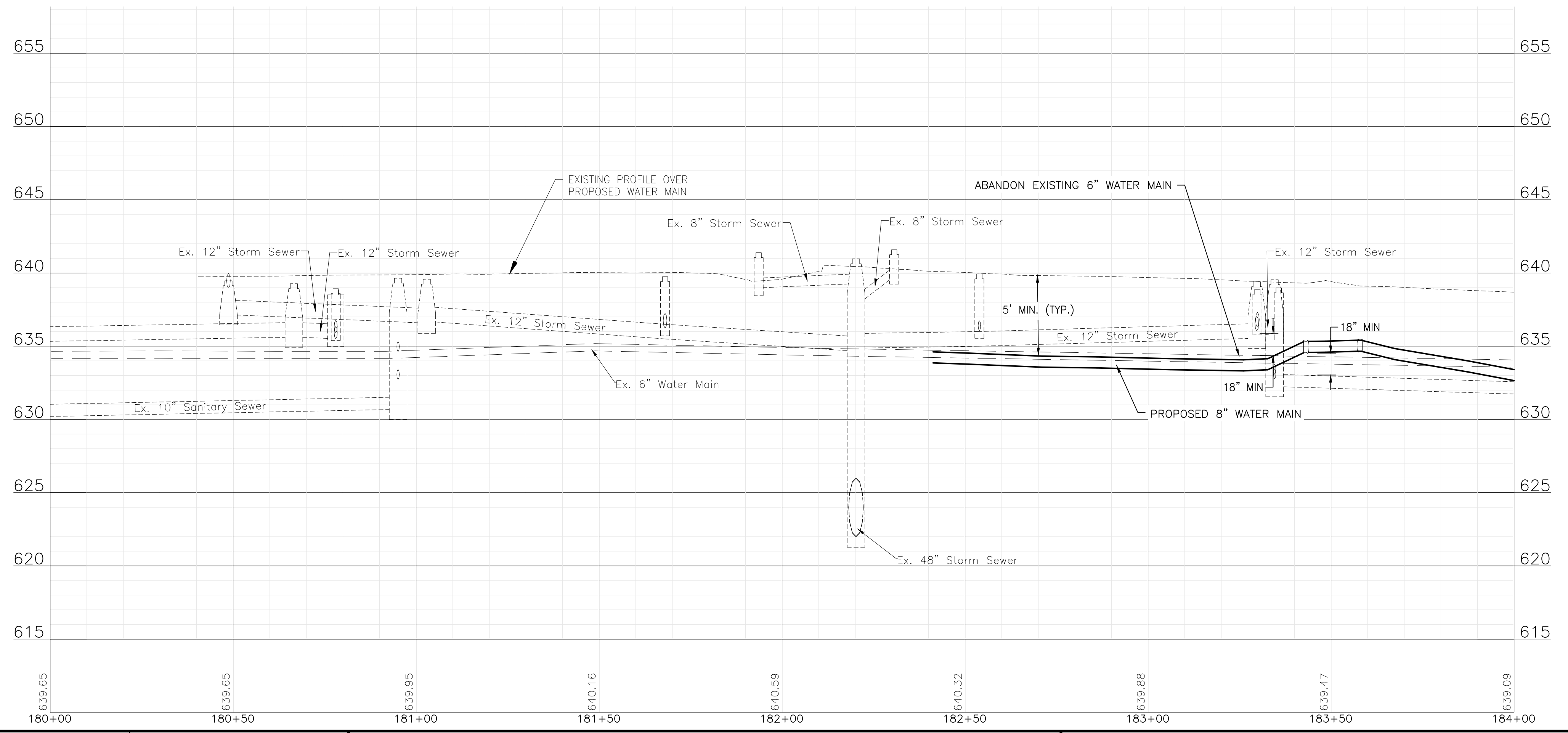


NOTE:
WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

NOTE:
8" NON-PRESSURE CONNECTION TO ST. PAT'S PHASE 1A AT THIS LOCATION. CONNECTION AND VALVE INSTALLATION TO BE COORDINATED WITH CITY OR ENGINEER.

WATER MAIN INSTALLATION INCLUDED IN ST. PAT'S PHASE 1A PROJECT



P:\JOL\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG SEESER STREET STA. 180+00 TO STA. 184+00 PLAN AND PROFILE
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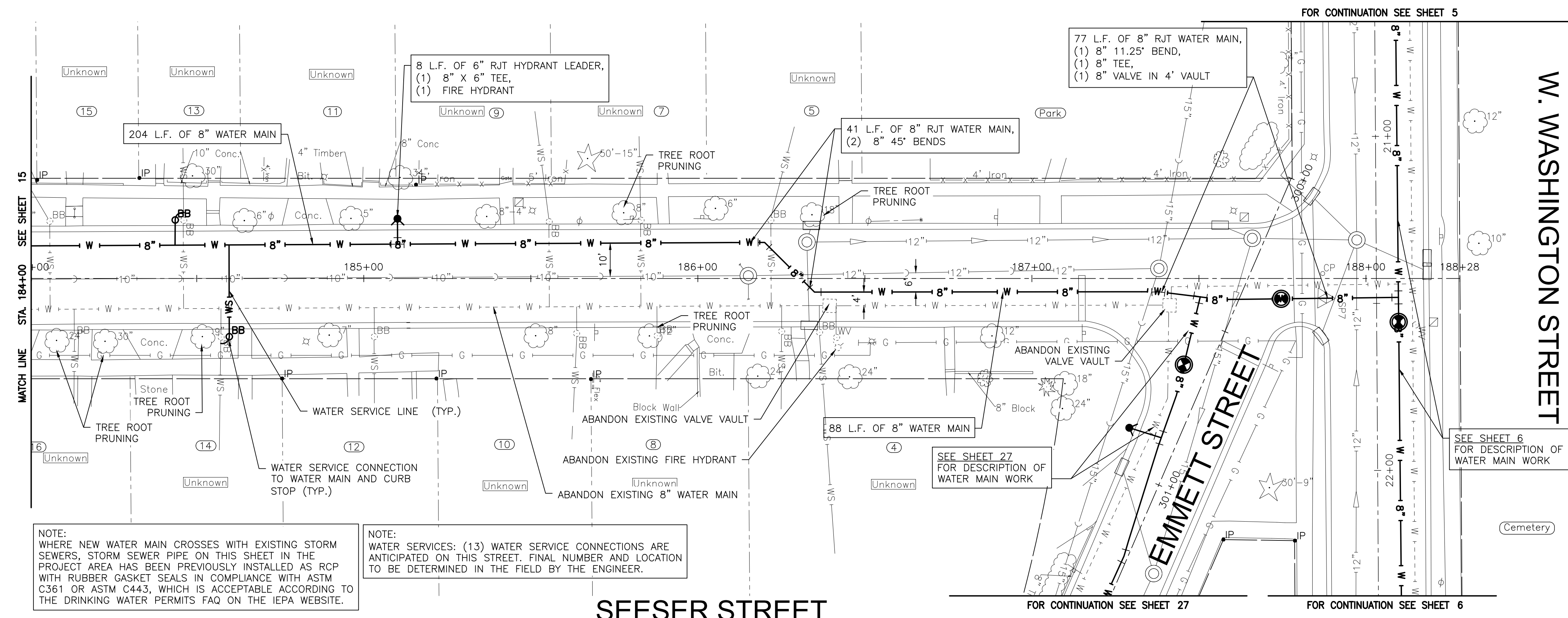
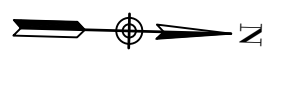
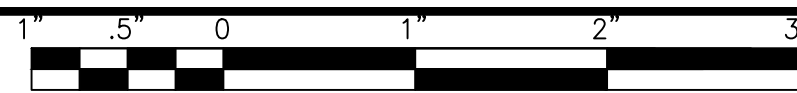


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	REVISED -

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

SEESER STREET STA. 180+00 TO STA. 184+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

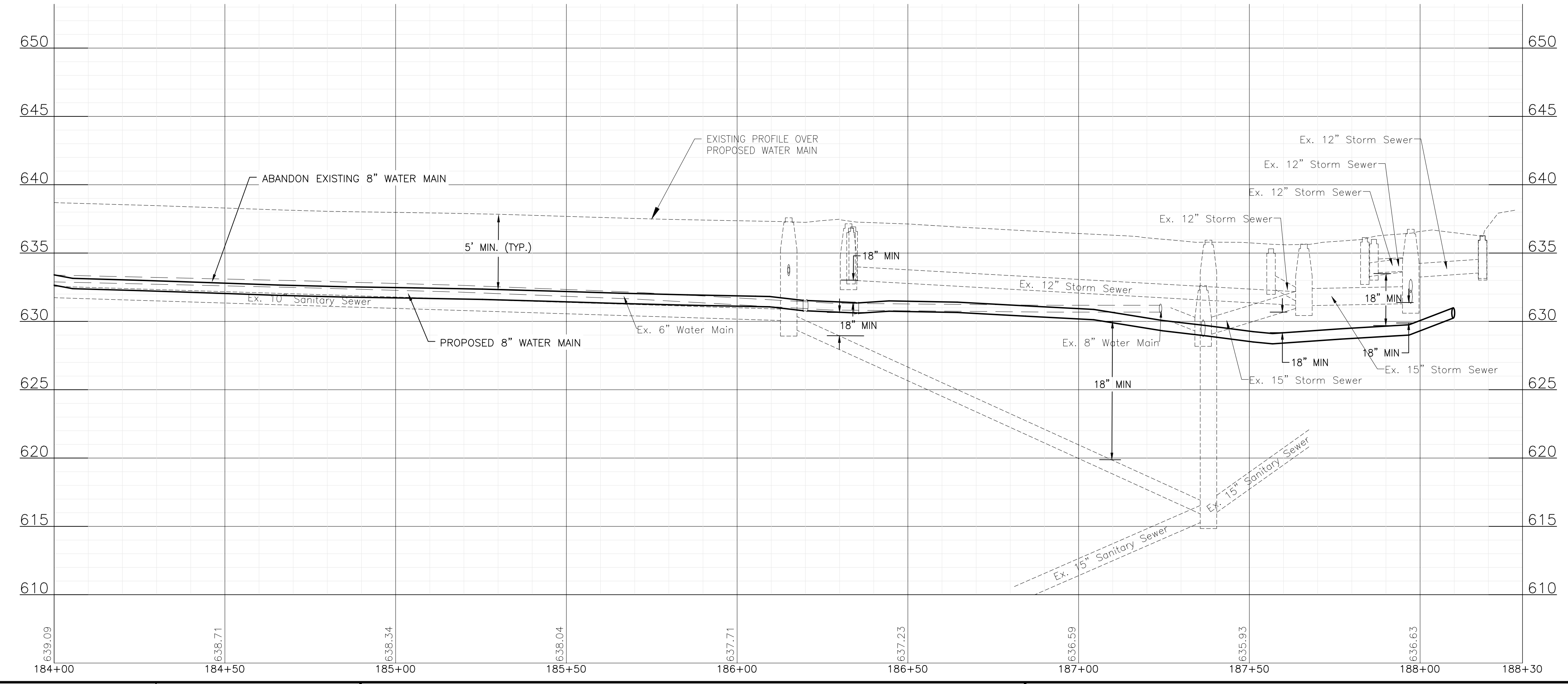
DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	15
CHECKED - LMS		
DATE - 11/07/22		



NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

NOTE:
WATER SERVICES: (13) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

SEESER STREET



P:\JOL\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG SEESER STREET STA. 185+00 TO STA. 189+00 PLAN AND PROFILE
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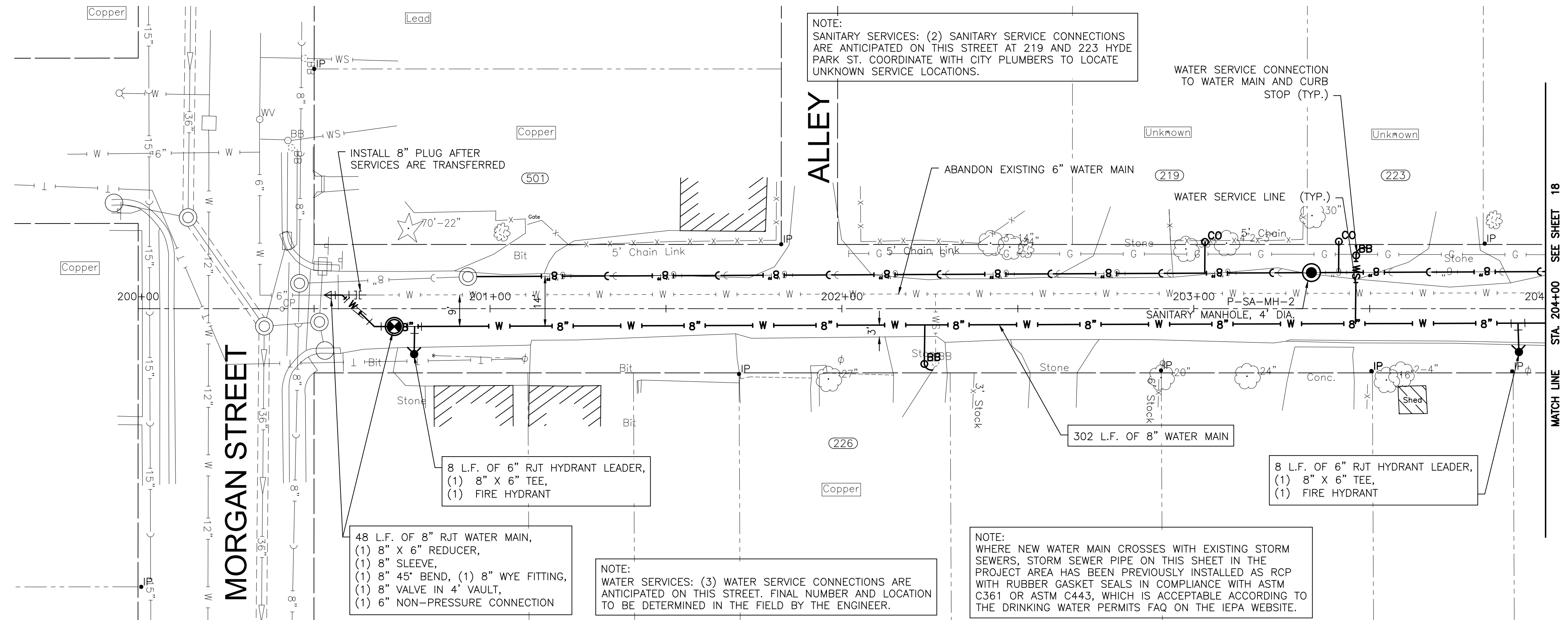
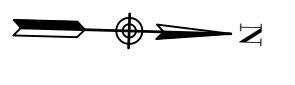
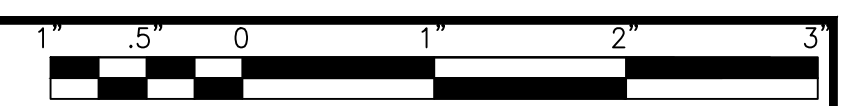
CONSULTANTS	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

SEESER STREET STA. 185+00 TO STA. 189+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	16
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING



NOTE:
SANITARY SERVICES: (2) SANITARY SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET AT 219 AND 223 HYDE PARK ST. COORDINATE WITH CITY PLUMBERS TO LOCATE UNKNOWN SERVICE LOCATIONS.

WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (TYP.)

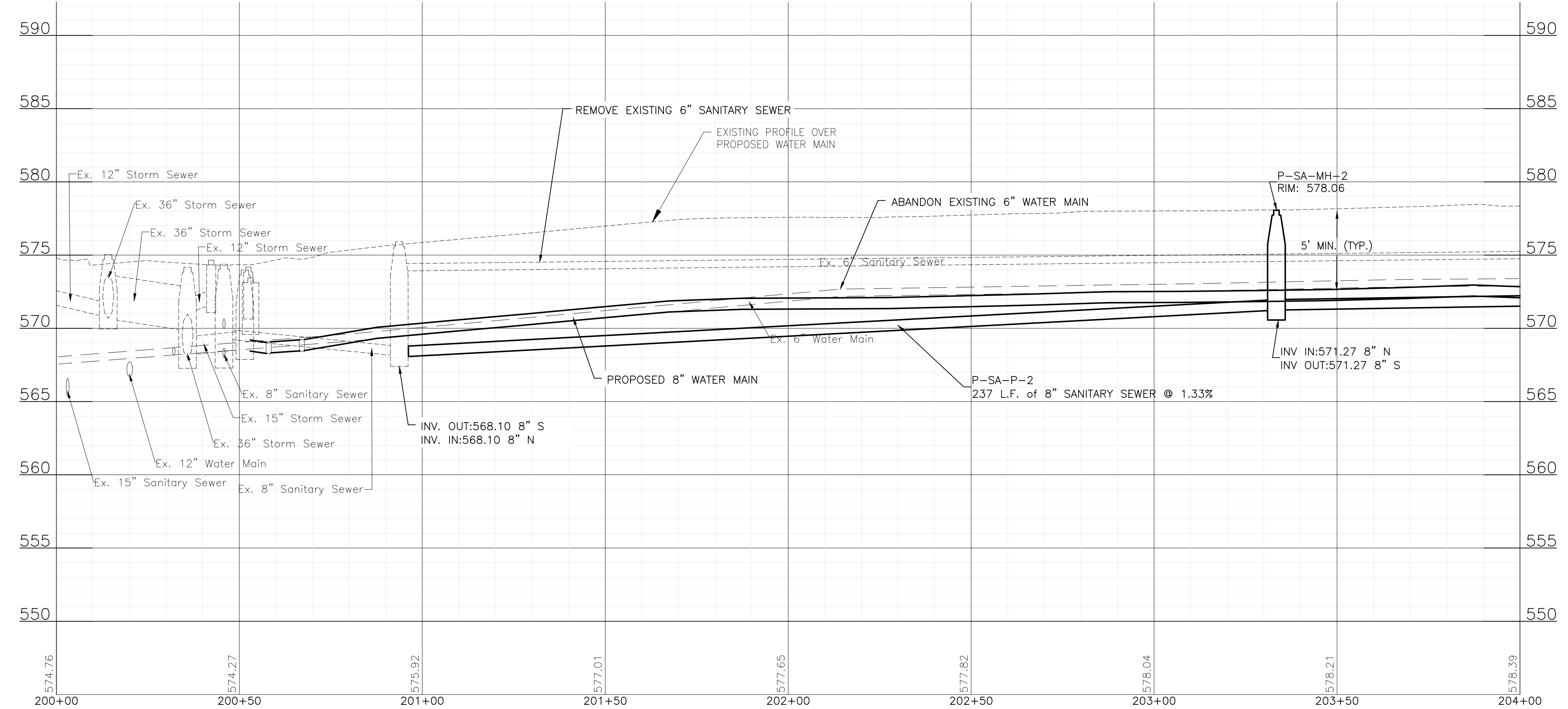
8 L.F. OF 6" RJT HYDRANT LEADER,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

48 L.F. OF 8" RJT WATER MAIN,
(1) 8" X 6" REDUCER,
(1) 8" SLEEVE,
(1) 8" 45° BEND, (1) 8" WYE FITTING,
(1) 8" VALVE IN 4' VAULT,
(1) 6" NON-PRESSURE CONNECTION

NOTE:
WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

HYDE PARK STREET



P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG HYDE PARK STREET STA. 200+00 TO STA. 204+00 PLAN AND PROFILE
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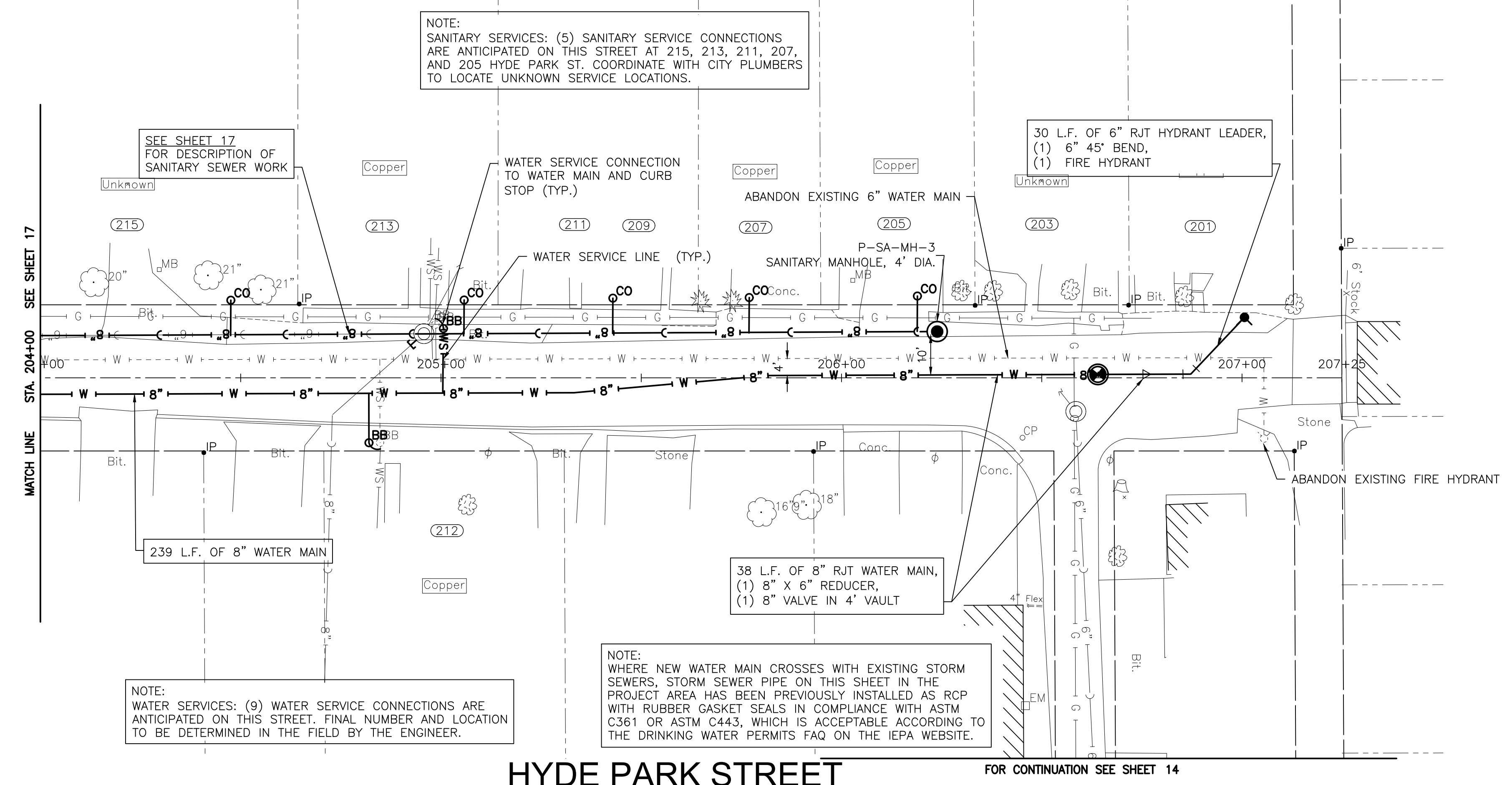
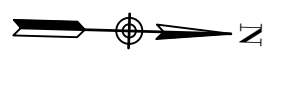
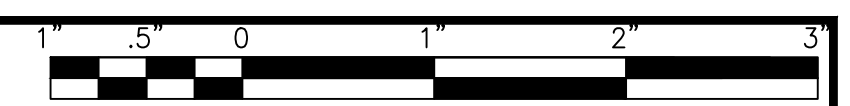
CONSULTANTS	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

HYDE PARK STREET STA. 200+00 TO STA. 204+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	17
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING



NOTE:
WATER SERVICES: (9) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

NOTE:
SANITARY SERVICES: (5) SANITARY SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET AT 215, 213, 211, 207, AND 205 HYDE PARK ST. COORDINATE WITH CITY PLUMBERS TO LOCATE UNKNOWN SERVICE LOCATIONS.

SEE SHEET 17 FOR DESCRIPTION OF SANITARY SEWER WORK

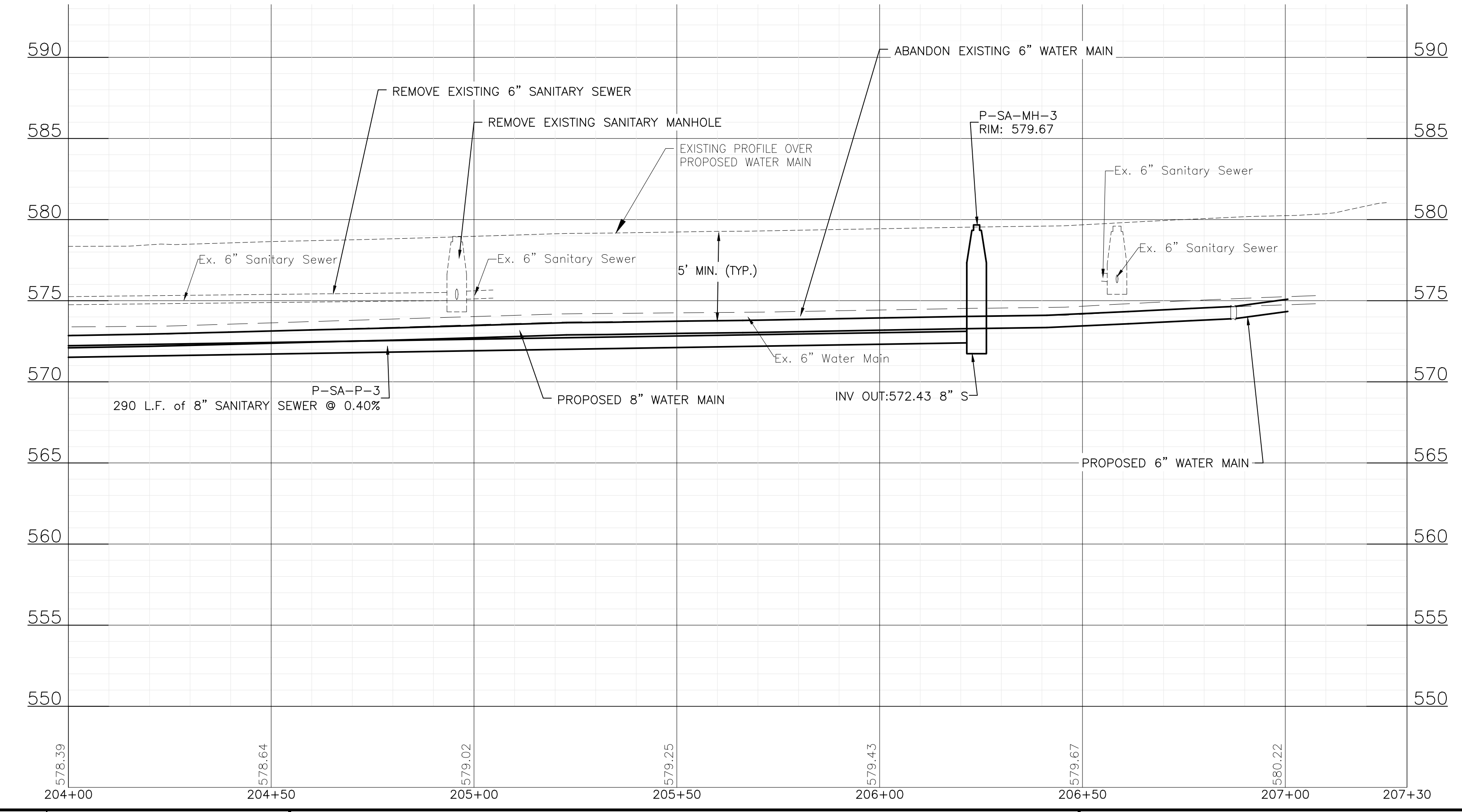
30 L.F. OF 6" RJT HYDRANT LEADER,
(1) 6" 45° BEND,
(1) FIRE HYDRANT

239 L.F. OF 8" WATER MAIN

38 L.F. OF 8" RJT WATER MAIN,
(1) 8" X 6" REDUCER,
(1) 8" VALVE IN 4' VAULT

HYDE PARK STREET

FOR CONTINUATION SEE SHEET 14



FINAL DESIGN FOR BIDDING

P:\JOL\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG HYDE PARK STREET STA. 204+00 TO STA. 207+50 PLAN AND PROFILE
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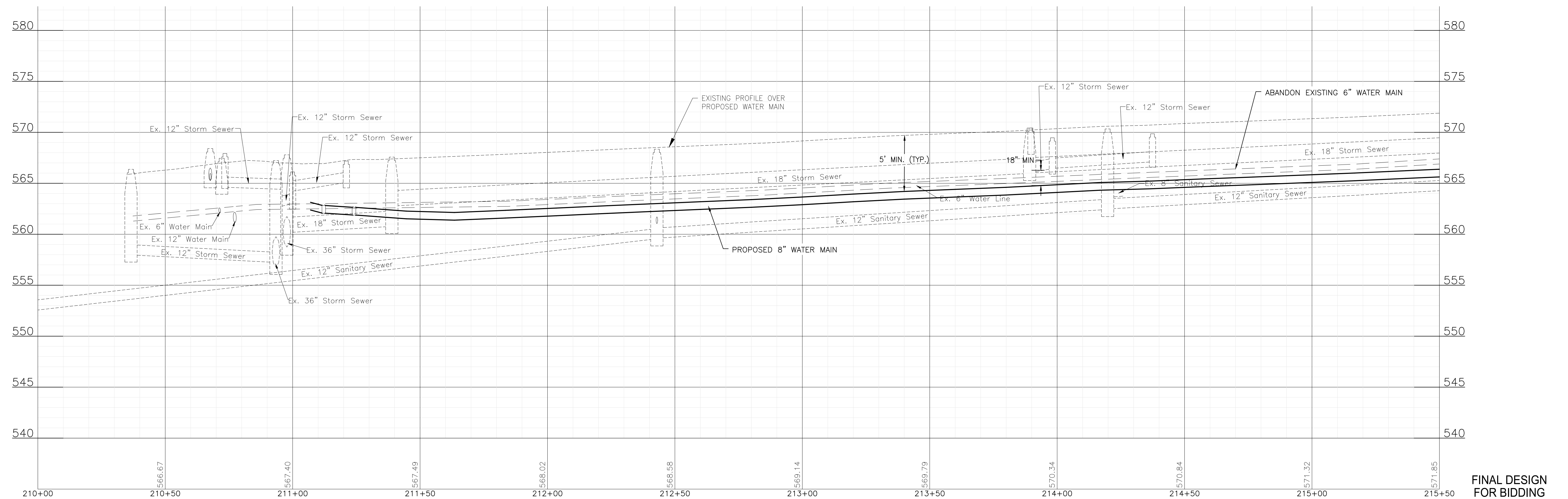
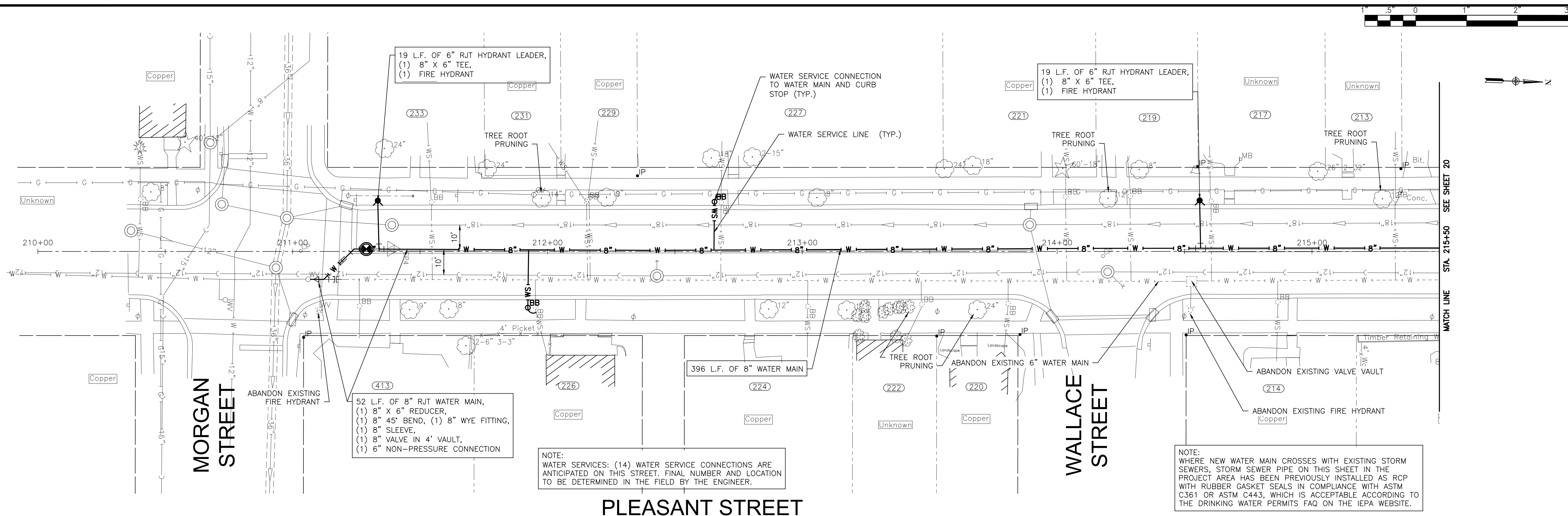
CONSULTANTS	REVISED -
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	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

HYDE PARK STREET STA. 204+00 TO STA. 207+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	18
CHECKED - LMS		
DATE - 11/07/22		

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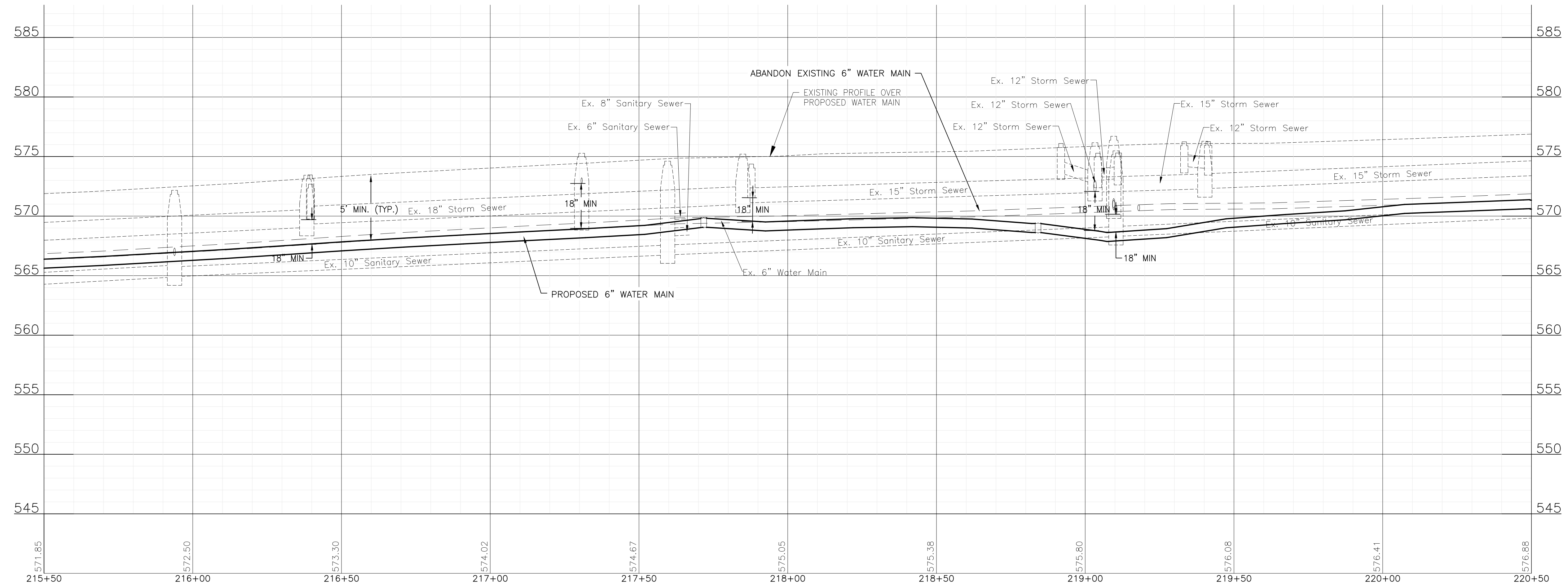
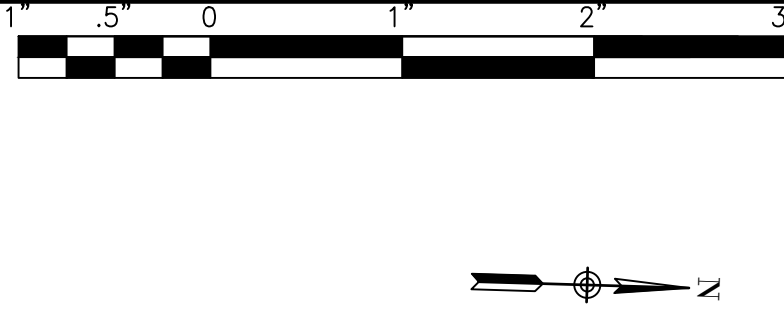
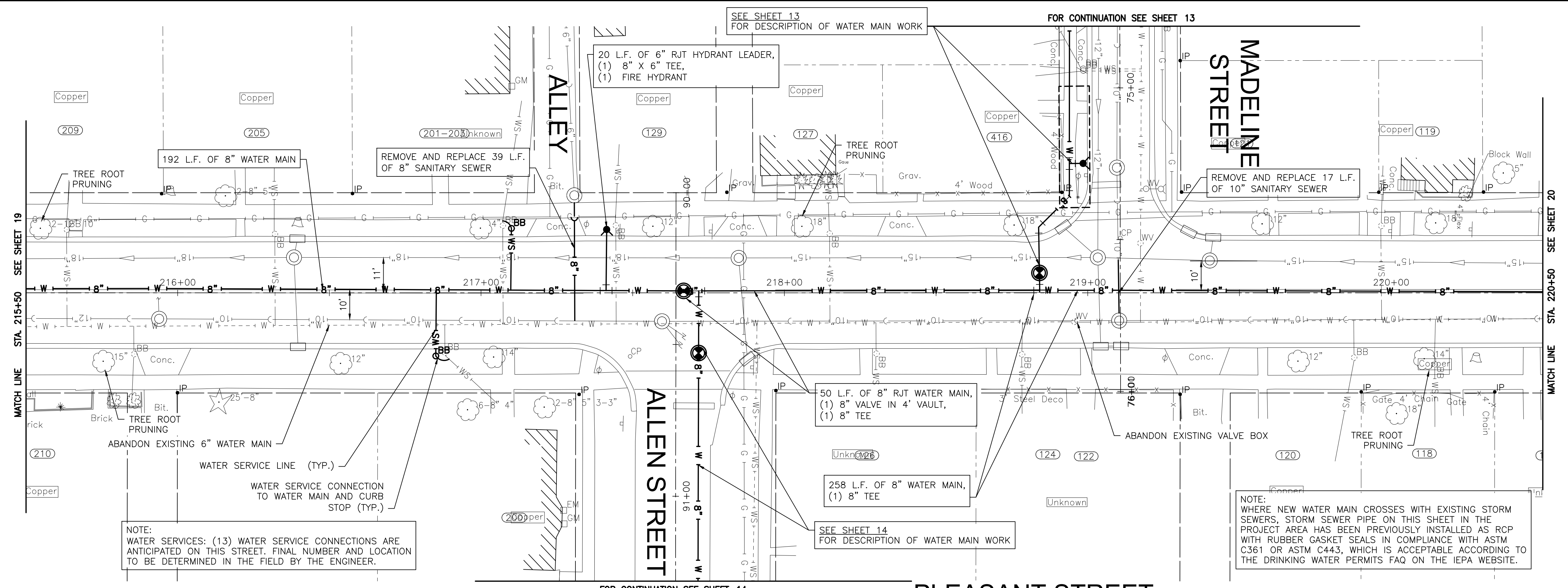
CONSULTANTS	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
 ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2690-0123

SCALE: HORIZ 1"=20' / VERT 1"=5'		PROJECT NO: 211917	
DESIGNED - EK		TOTAL SHEETS	SHEET NO.
DRAWN - JJS		33	19
CHECKED - LMS		DATE - 11/07/22	

FINAL DESIGN FOR BIDDING

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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

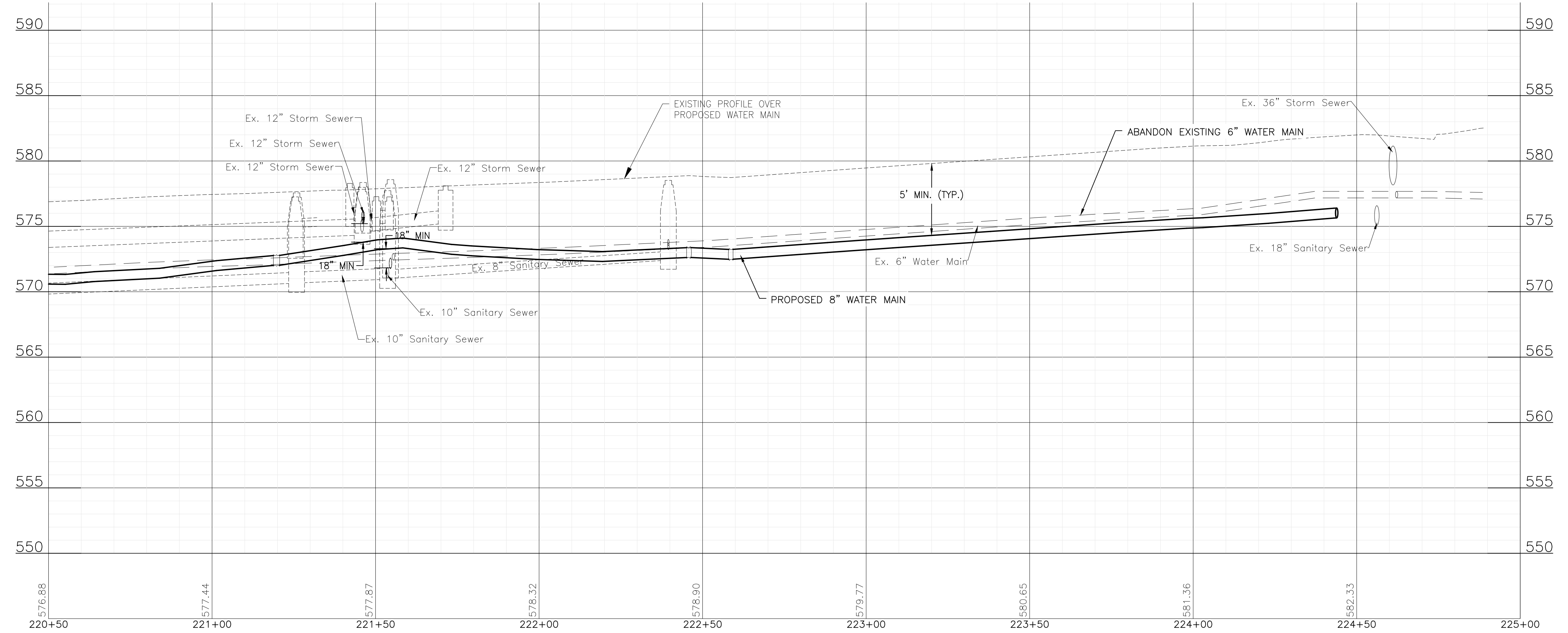
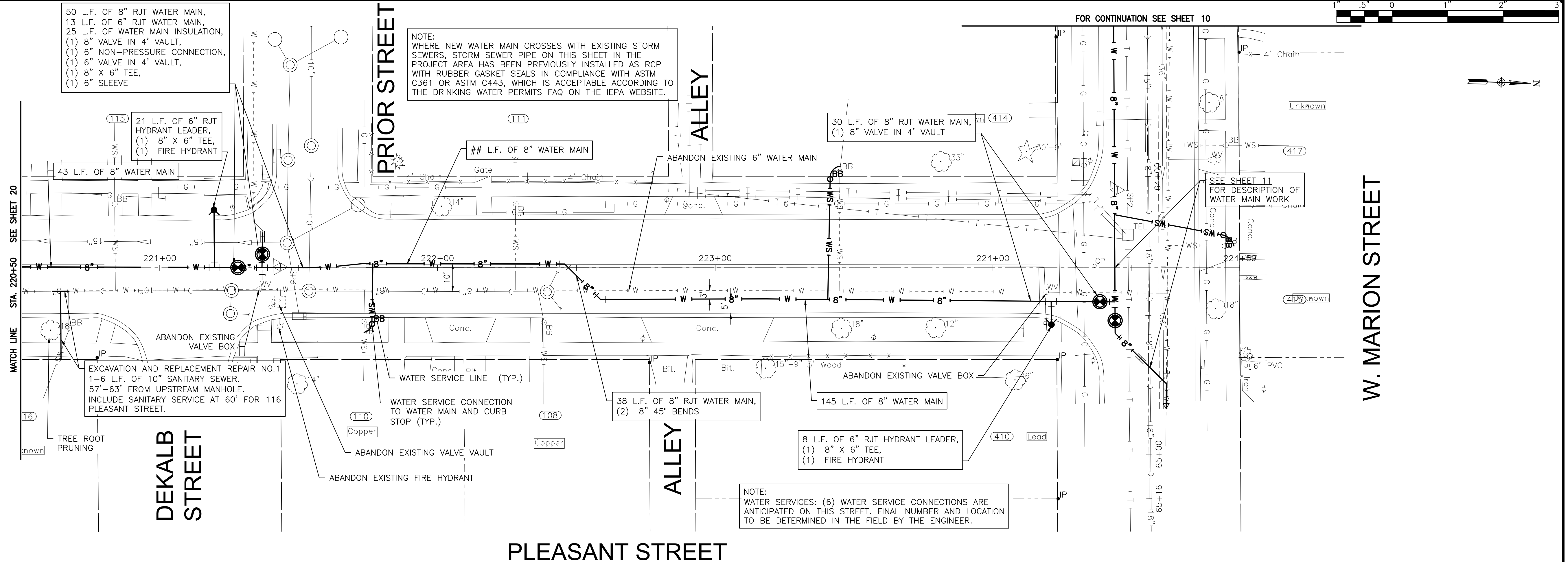
PLEASANT STREET STA. 215+50 TO STA. 220+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	20
CHECKED - LMS		
DATE - 11/07/22		

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	REVISED -
	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

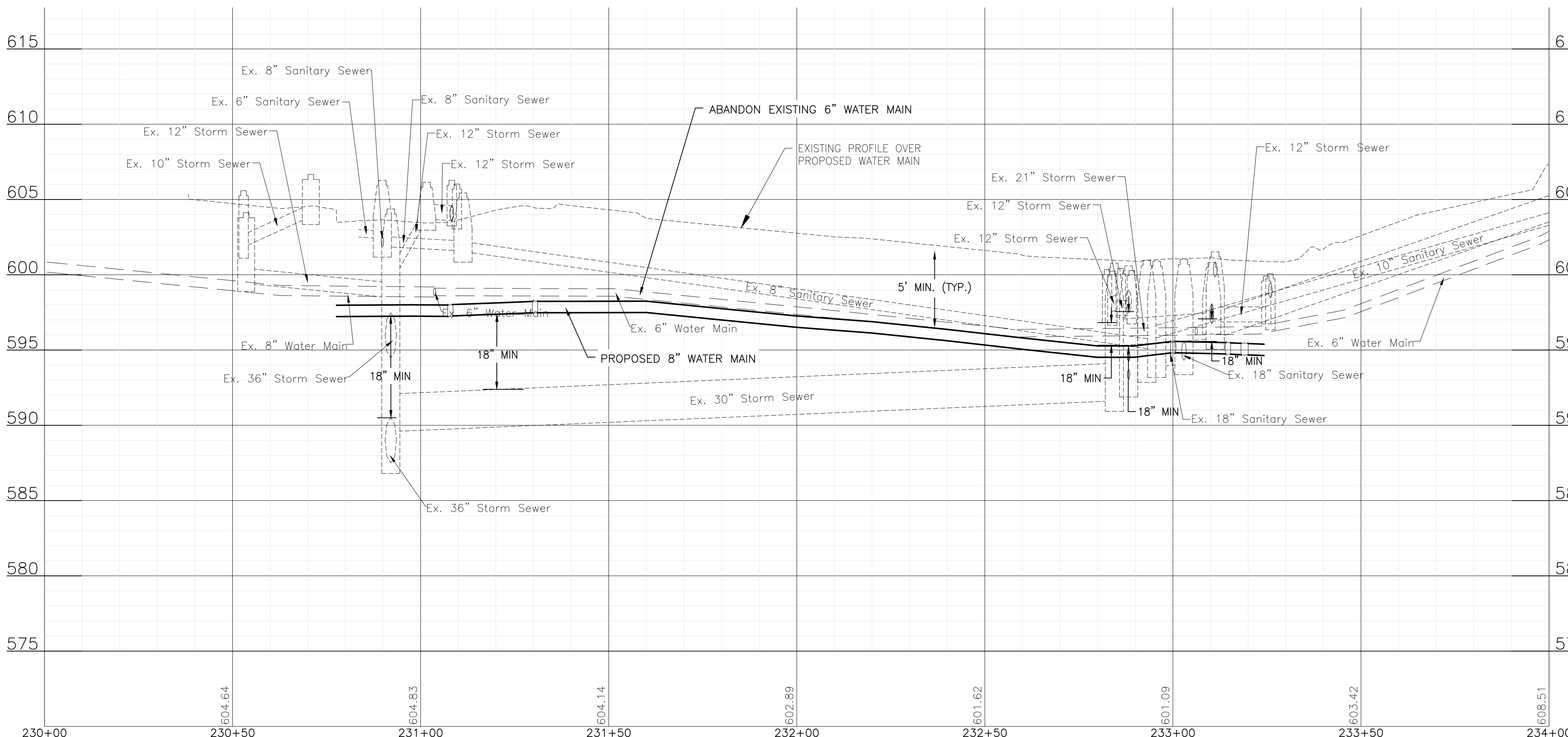
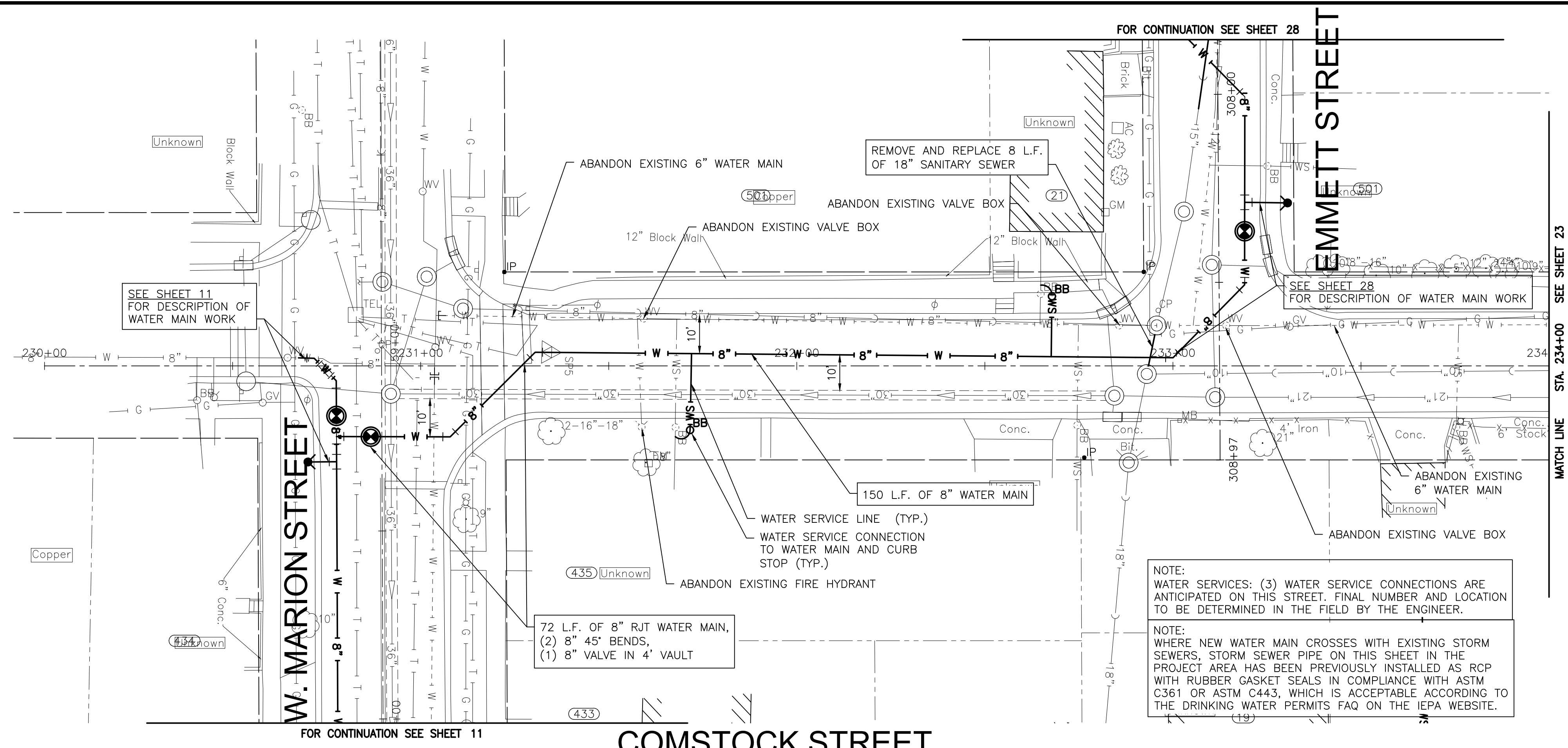
PLEASANT STREET STA. 220+50 TO STA. 225+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	21
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN
FOR BIDDING

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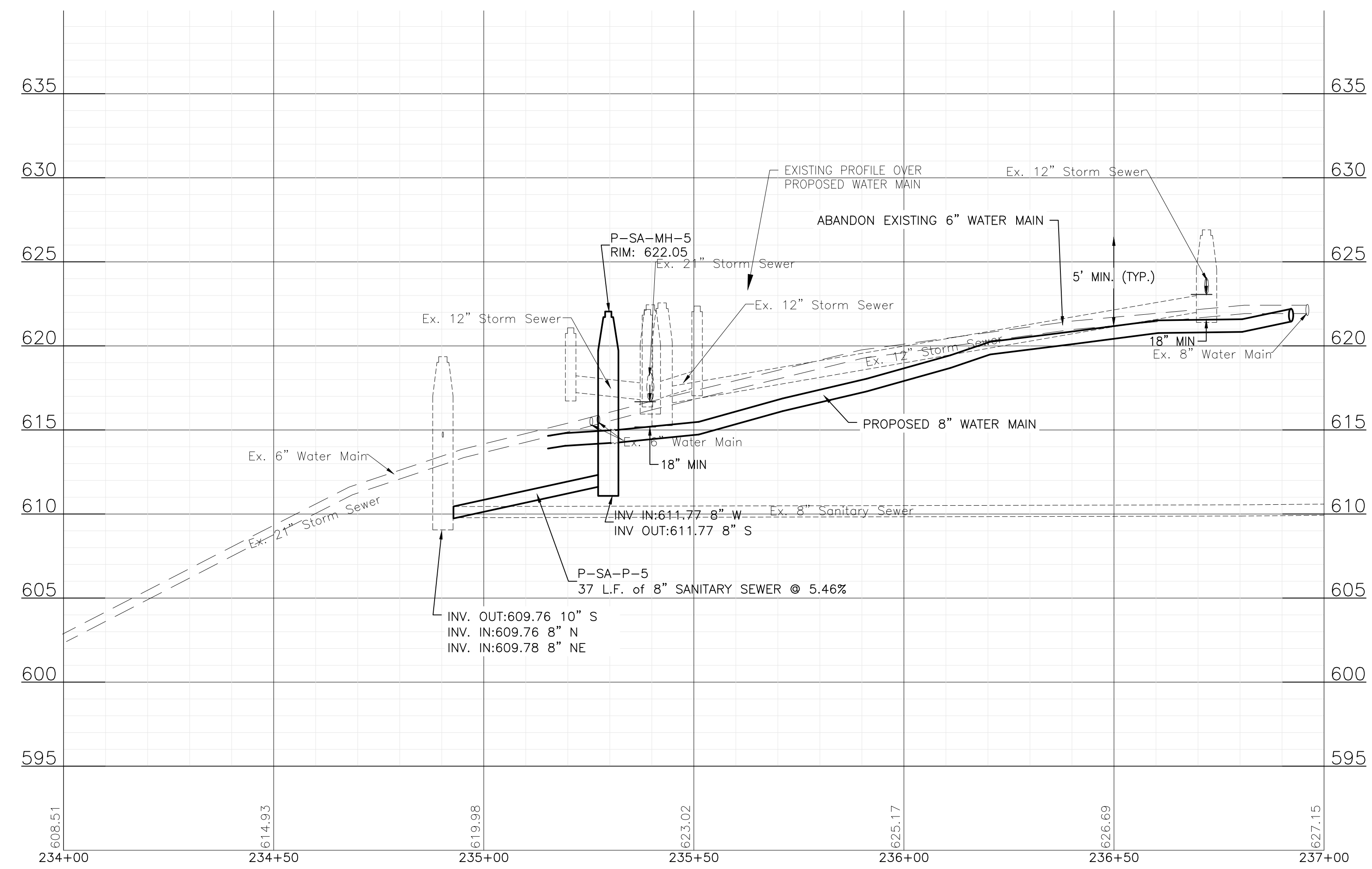
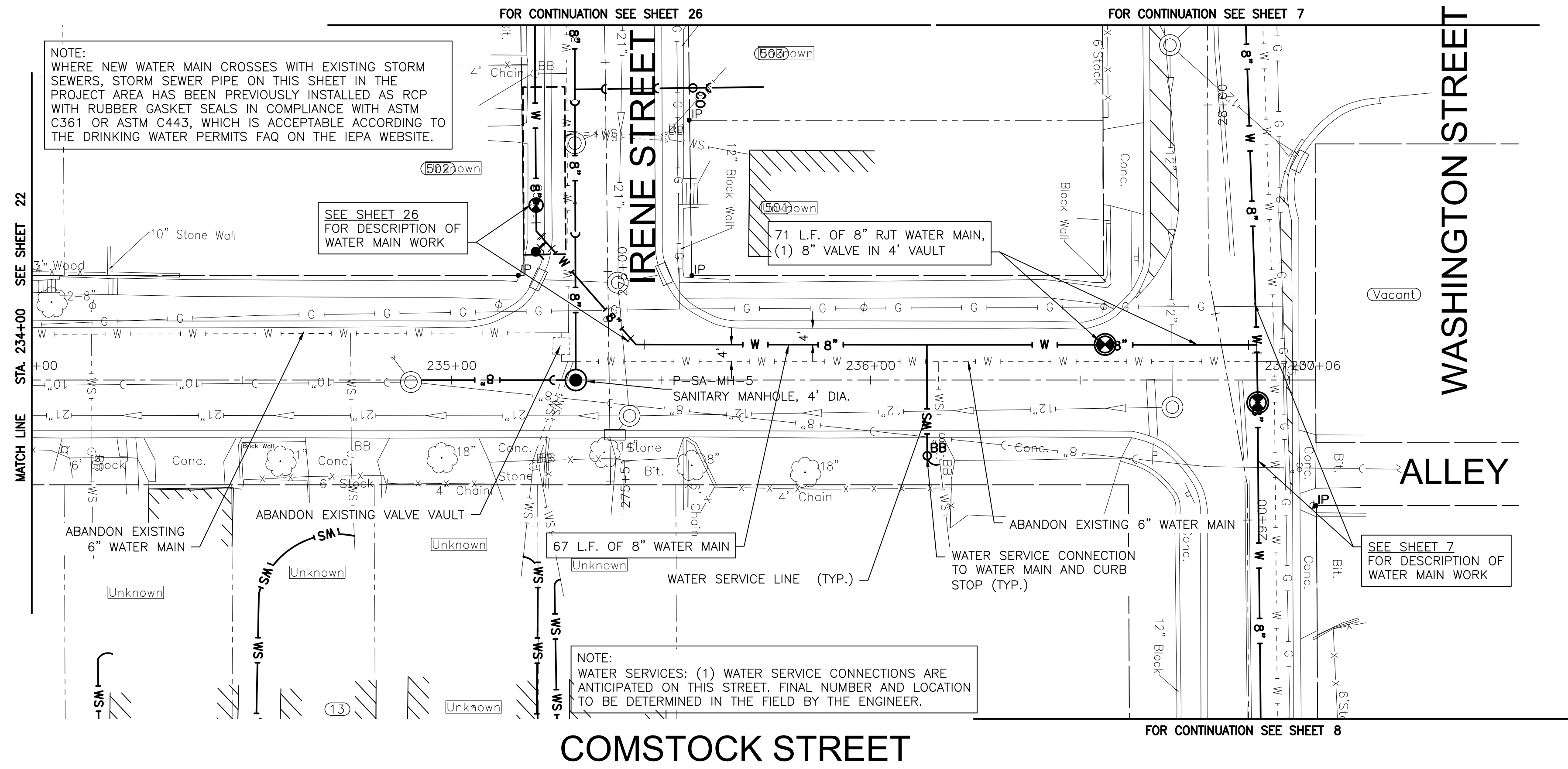
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

COMSTOCK STREET STA. 230+00 TO STA. 234+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	22
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG COMSTOCK STREET STA. 234+00 TO STA. 238+00 PLAN AND PROFILE
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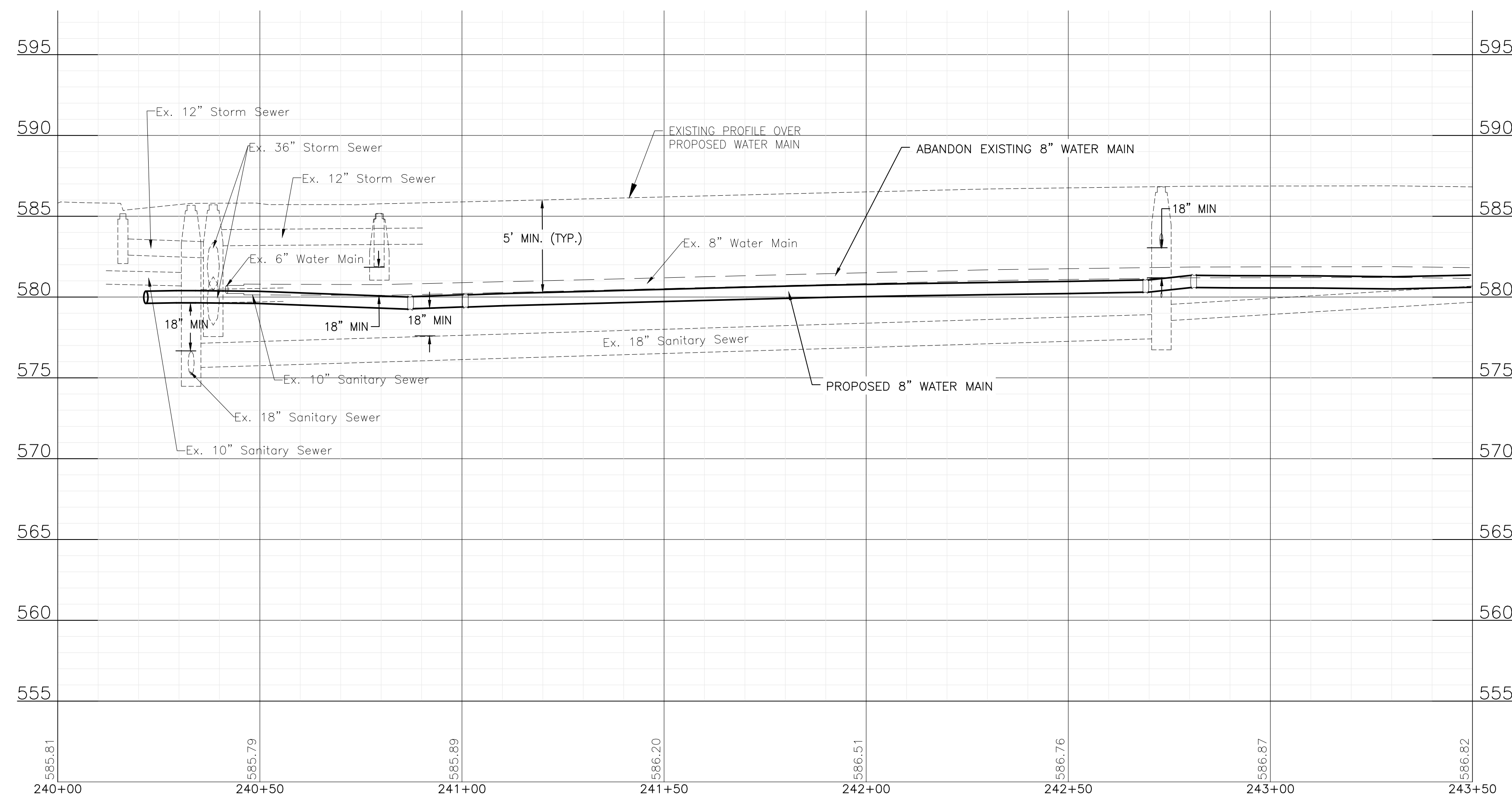
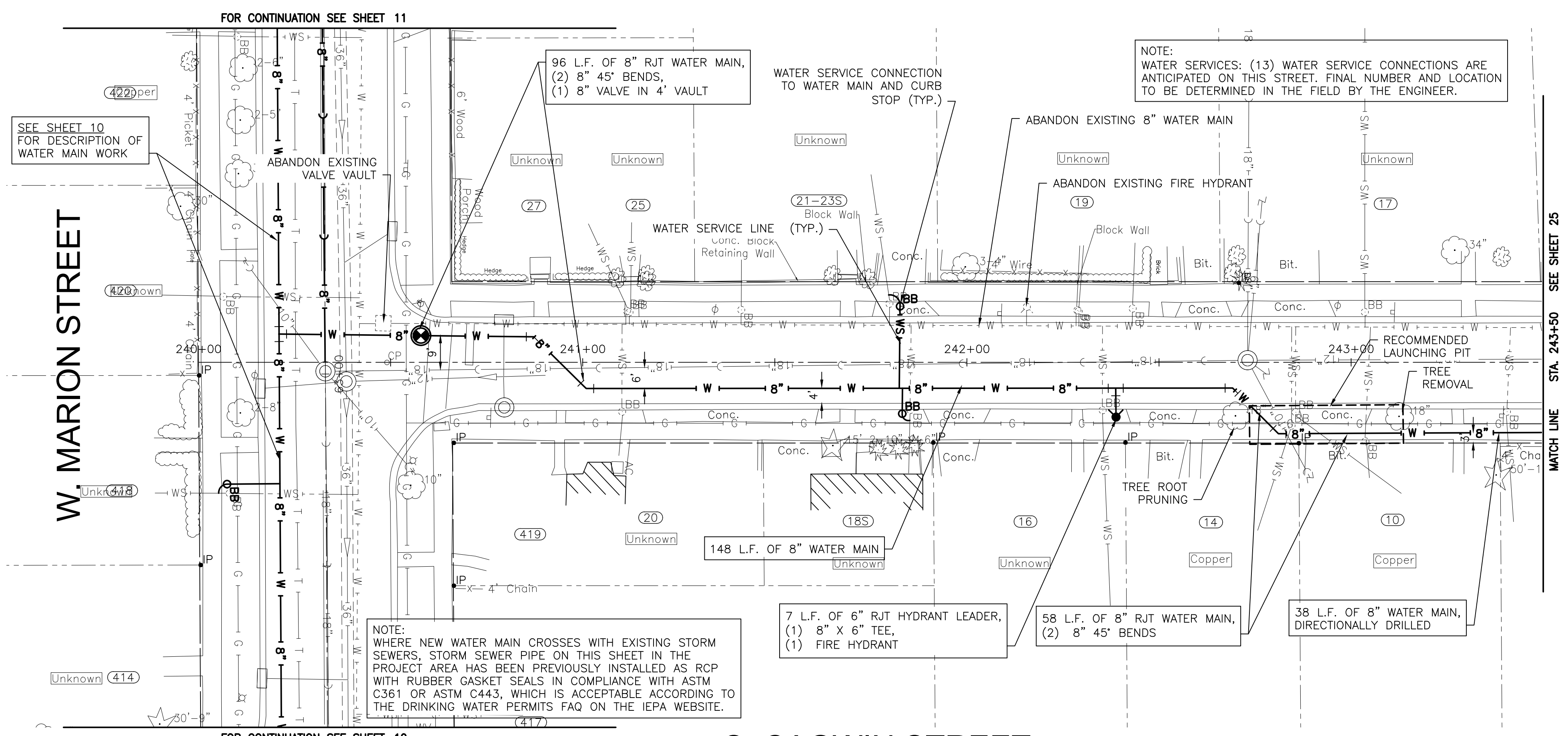
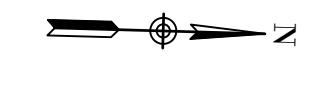
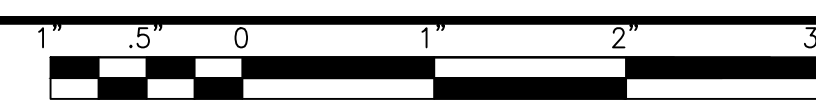


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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

COMSTOCK STREET STA. 234+00 TO STA. 238+00 PLAN AND PROFILE		DESIGNED - EK	TOTAL SHEETS	SHEET NO.
SCALE: HORIZ 1"=20' / VERT 1"=5'		DRAWN - JJS	33	23
PROJECT NO: 211917		CHECKED - LMS		
		DATE - 11/07/22		

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN-1B.DWG CAGWIN STREET STA. 240+00 TO STA. 243+00 PLAN AND PROFILE
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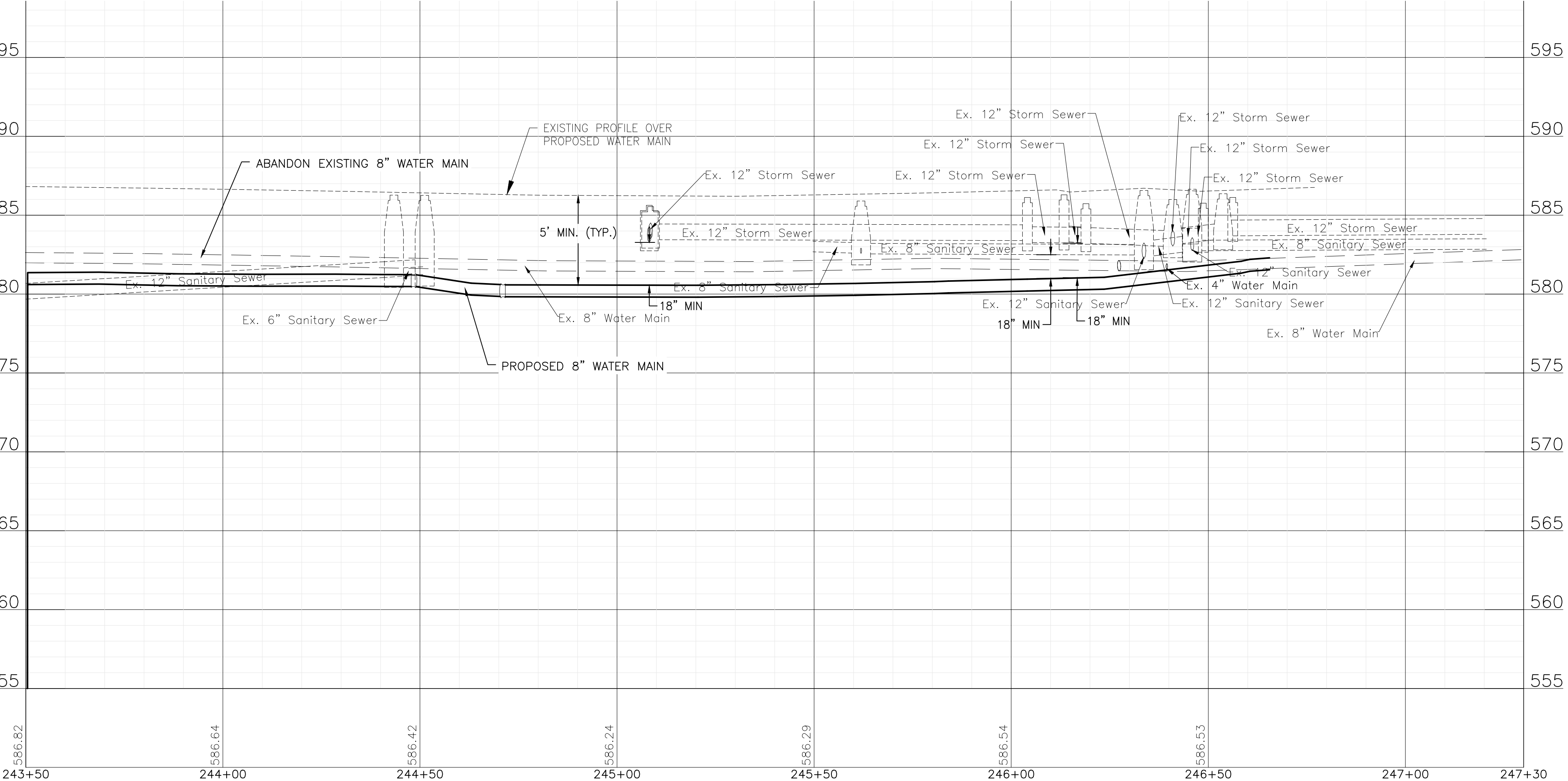
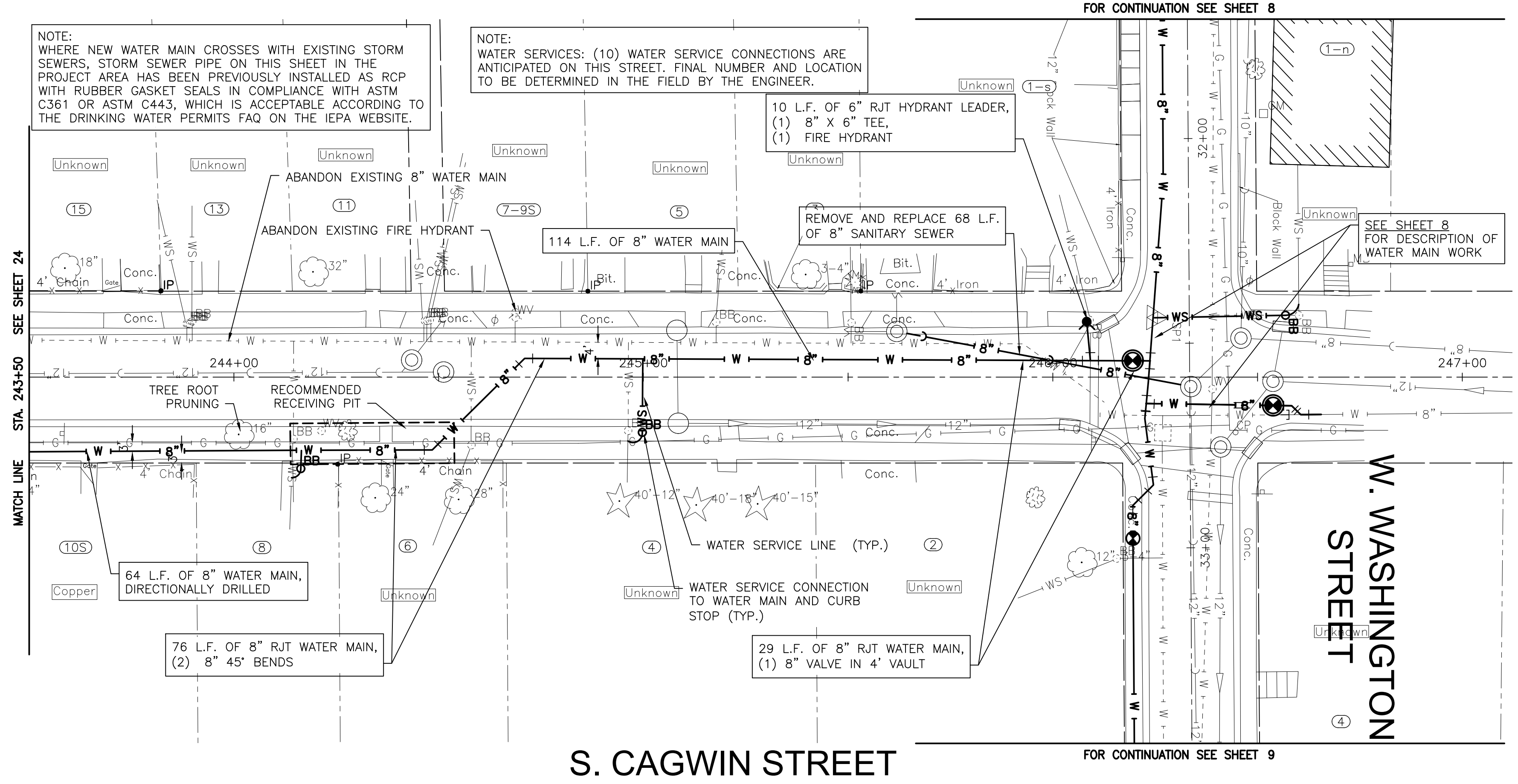
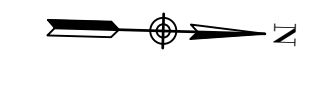
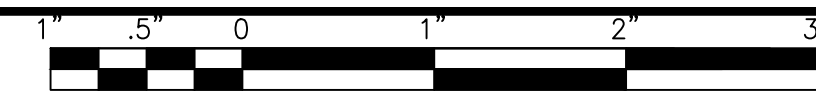


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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

CAGWIN STREET STA. 240+00 TO STA. 243+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	24
CHECKED - LMS		
DATE - 11/07/22		



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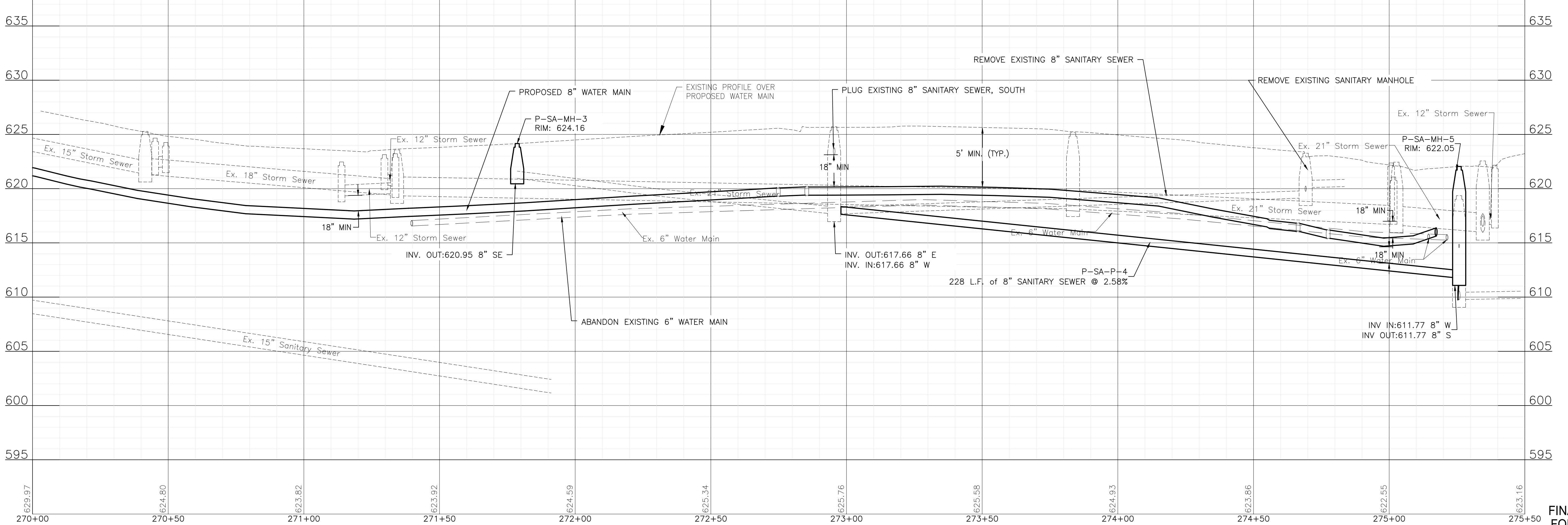
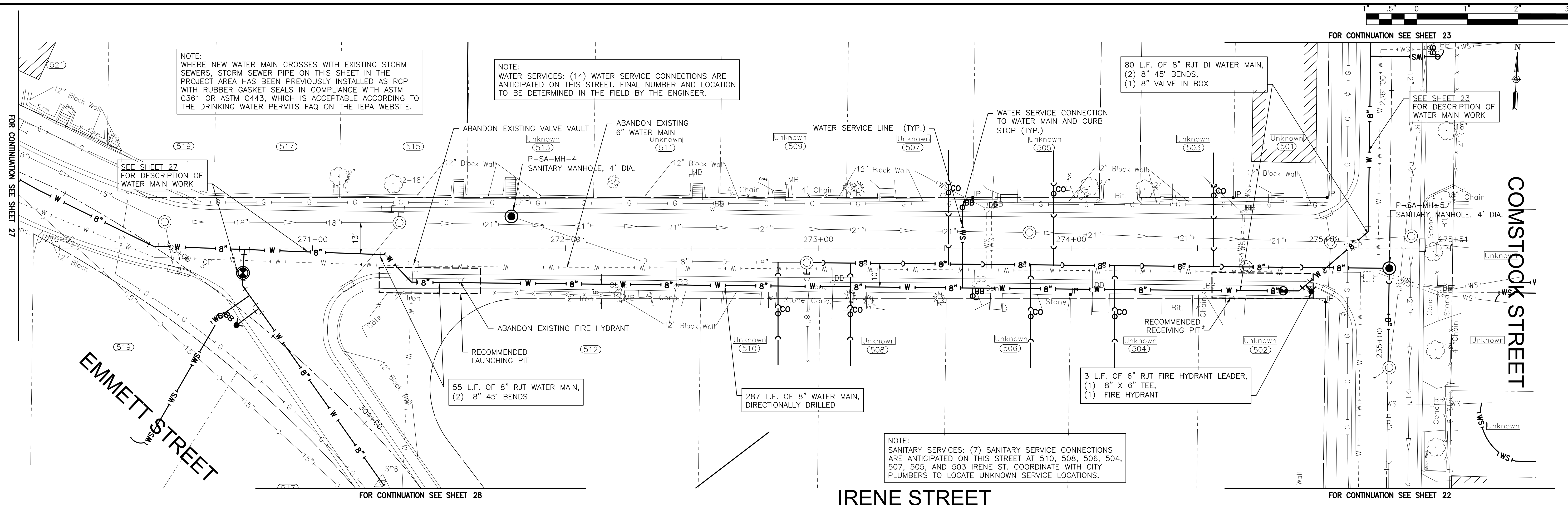
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ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

CAGWIN STREET STA. 243+50 TO STA. 247+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	25
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING

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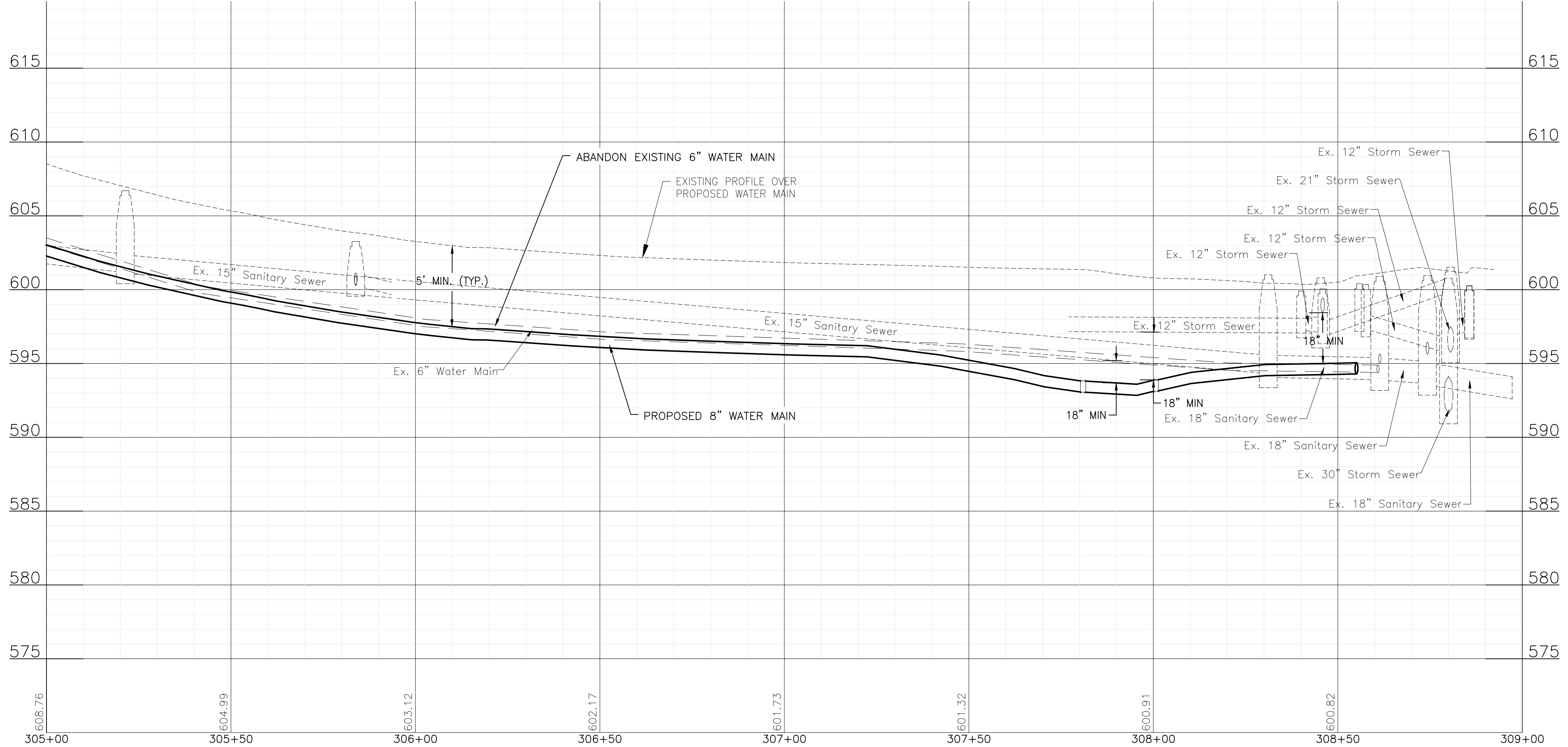
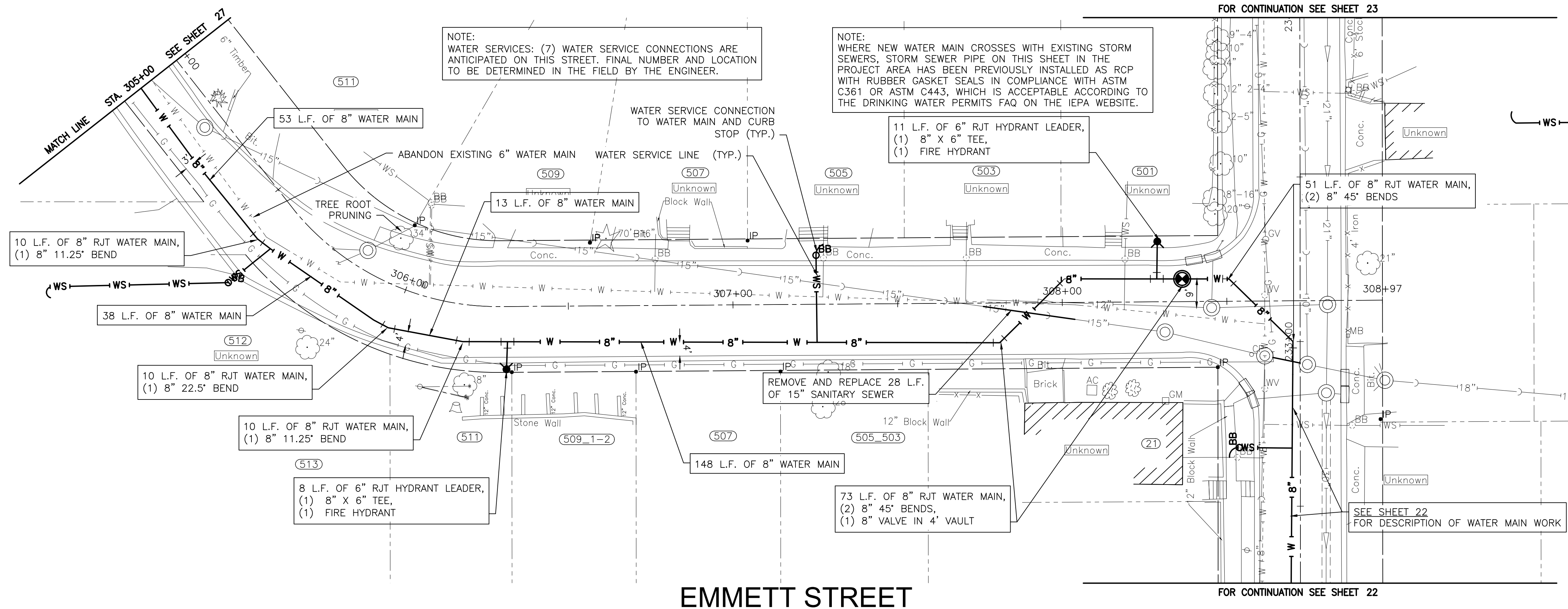
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ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

IRENE STREET STA. 270+00 TO STA. 276+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	26
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING

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COMSTOCK STREET

EMMETT STREET

FINAL DESIGN FOR BIDDING



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CITY OF JOLIET, ILLINOIS
 ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2690-0123

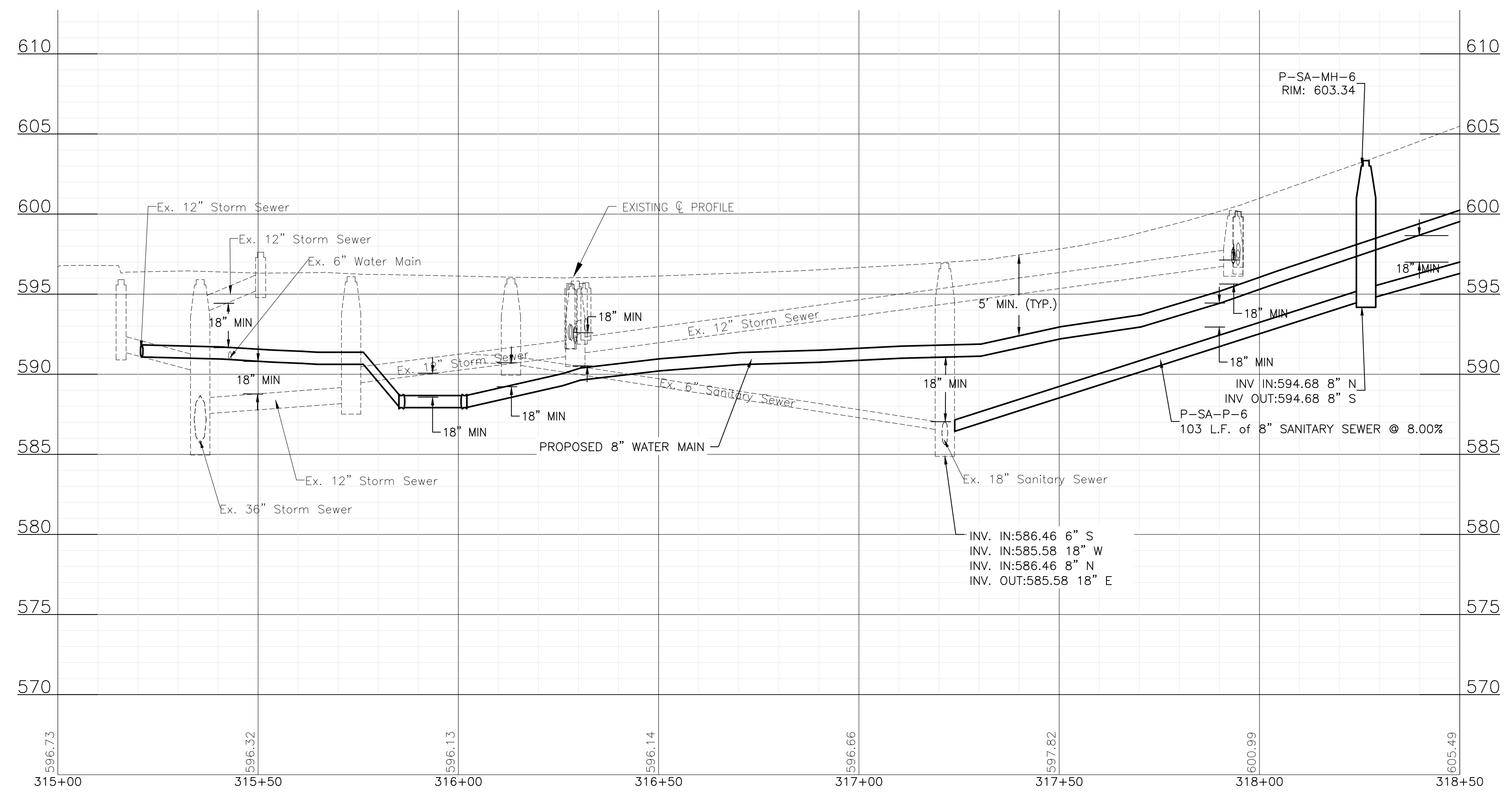
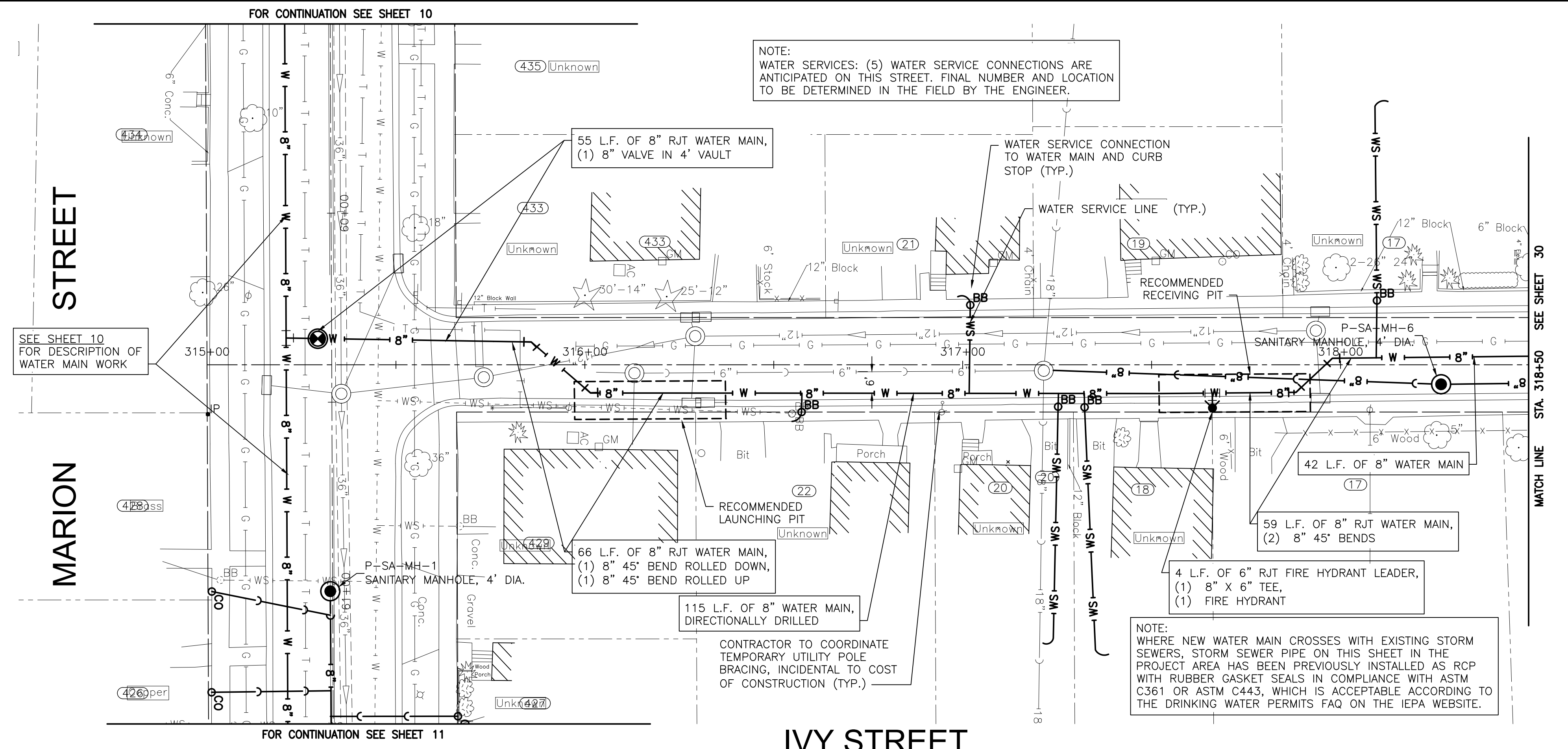
EMMETT STREET STA. 305+00 TO STA. 309+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	28
CHECKED - LMS		
DATE - 11/07/22		

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 Plotted: 10/31/2022 10:03 AM By: JSLAGER
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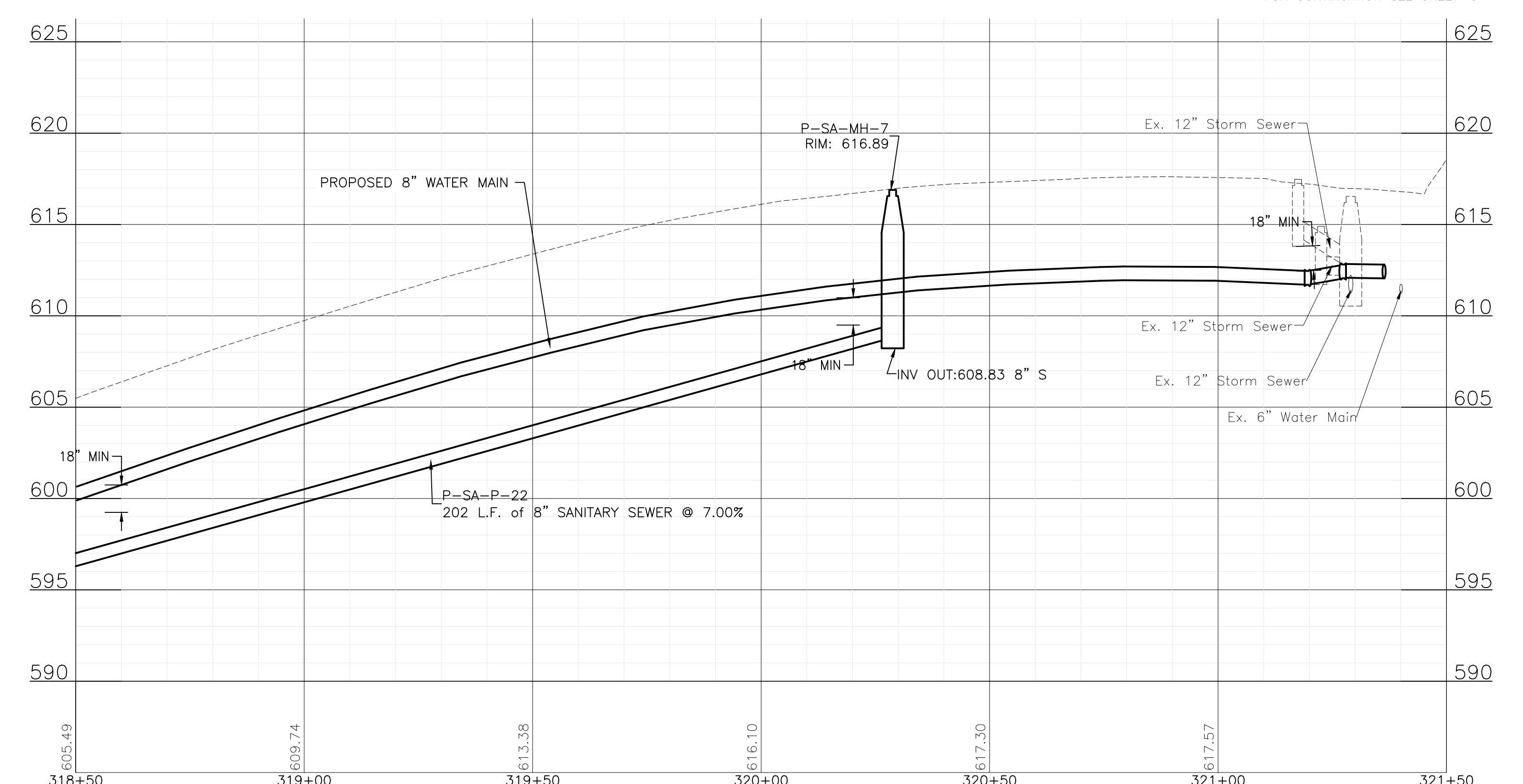
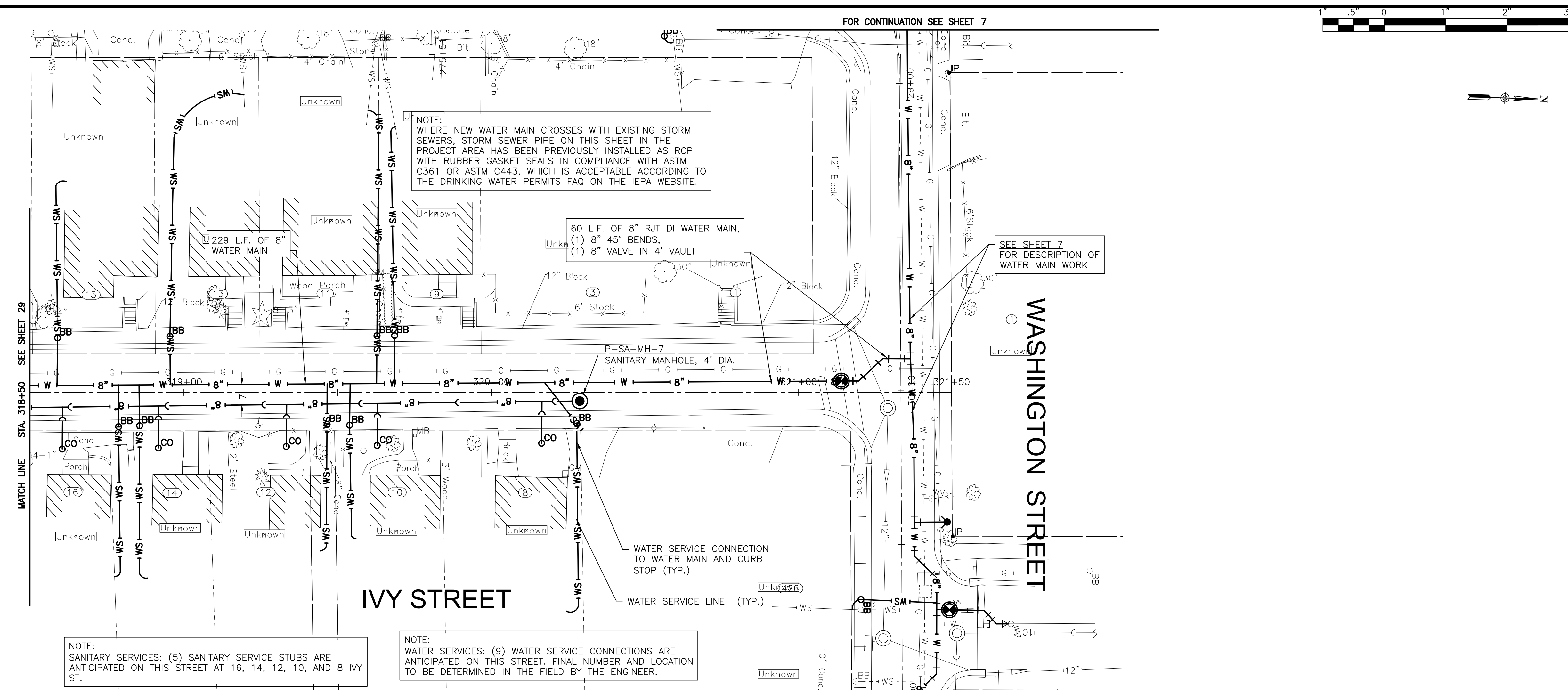
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

IVY STREET STA. 315+00 TO STA. 318+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	29
CHECKED - LMS		
DATE - 11/07/22		

FINAL DESIGN FOR BIDDING

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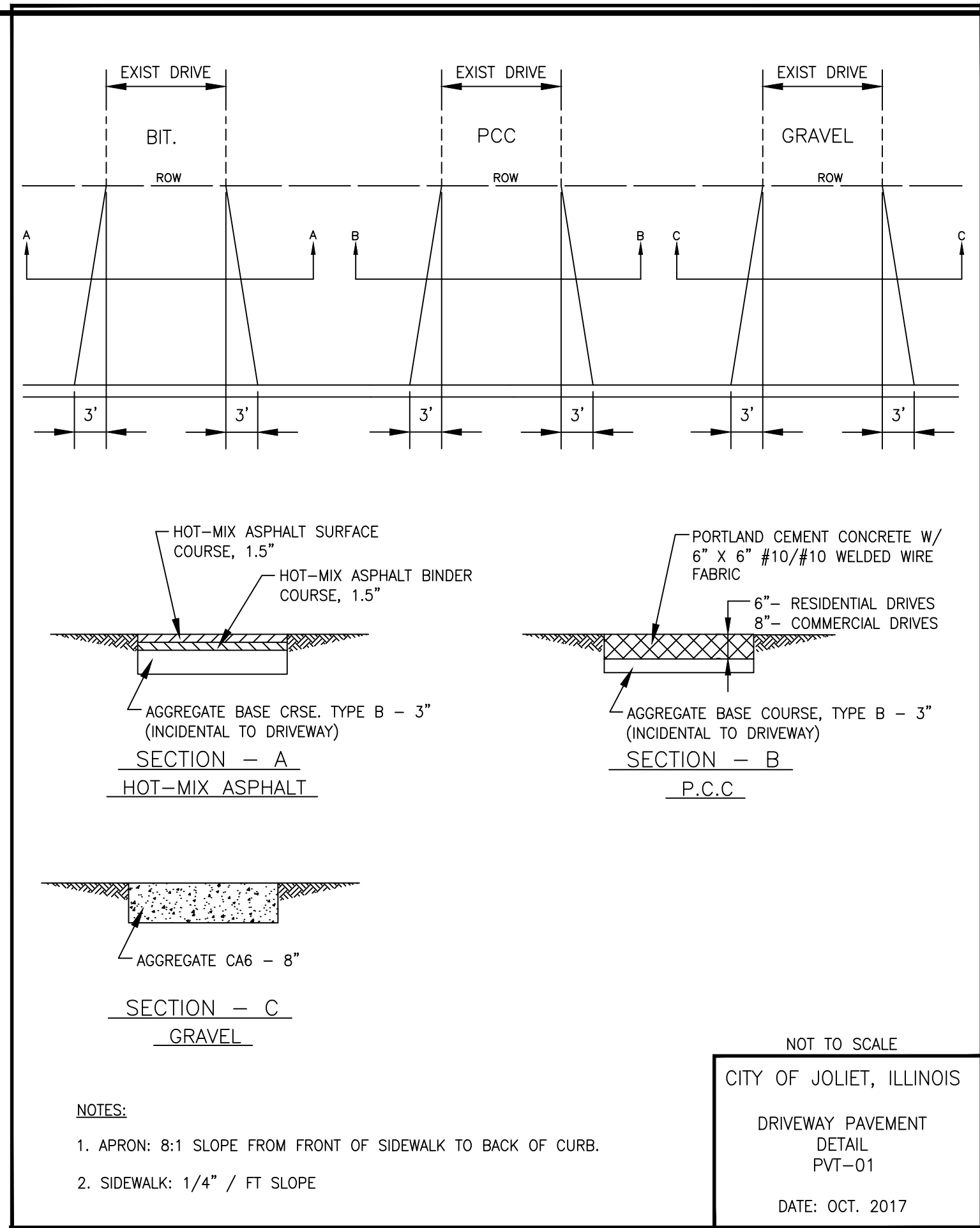
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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

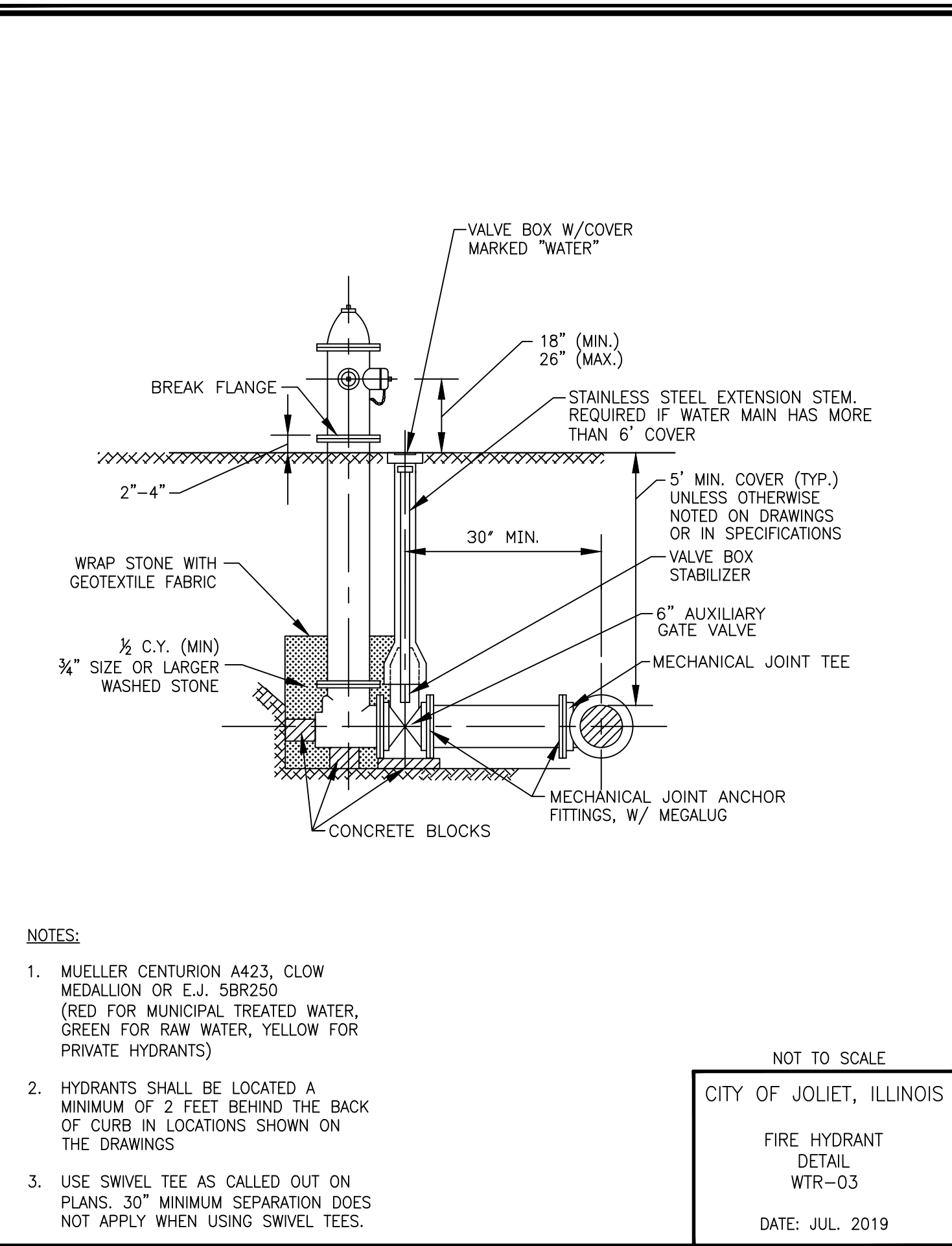
IVY STREET STA. 318+50 TO STA. 321+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 211917	DESIGNED - EK	TOTAL SHEETS	SHEET NO.
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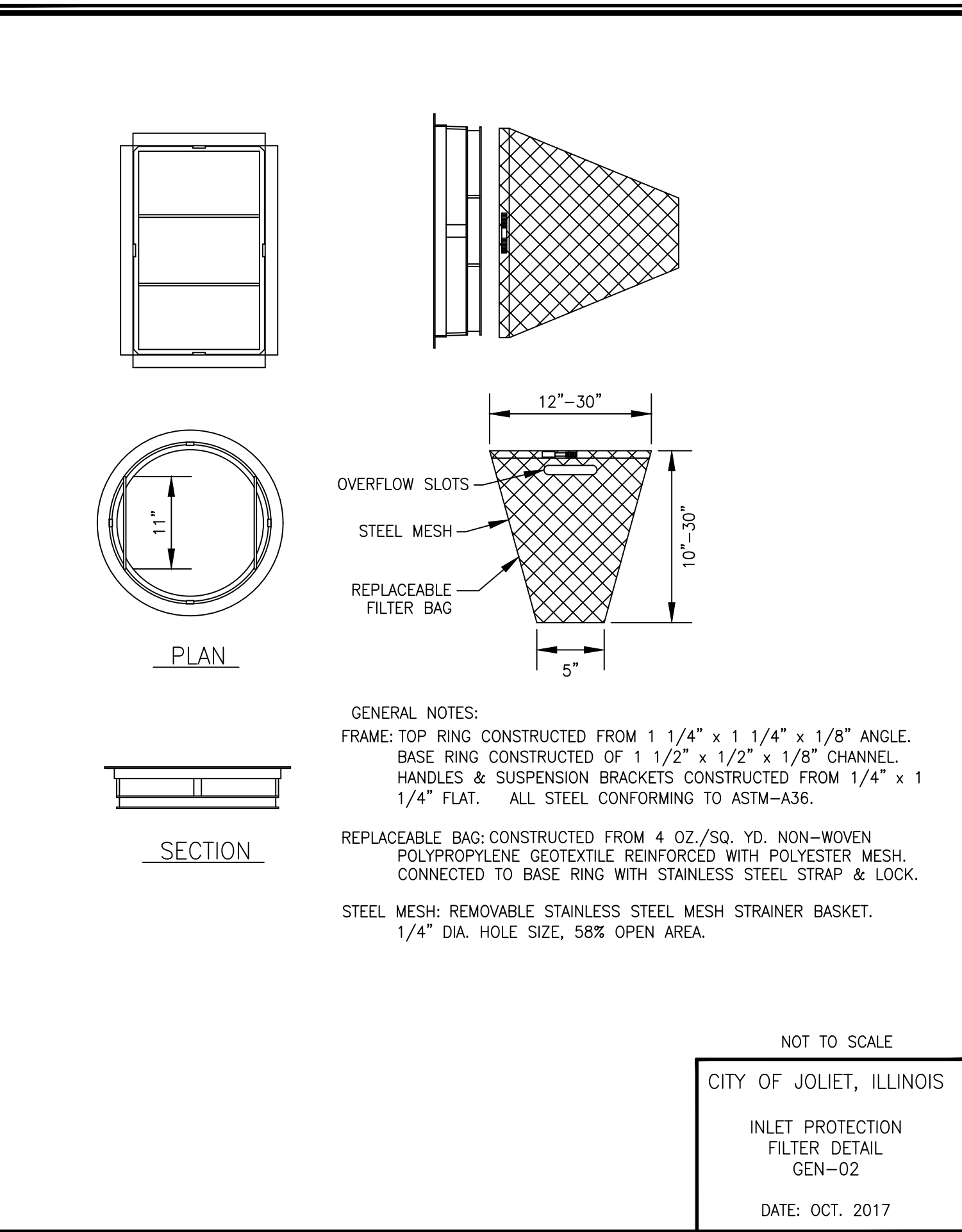
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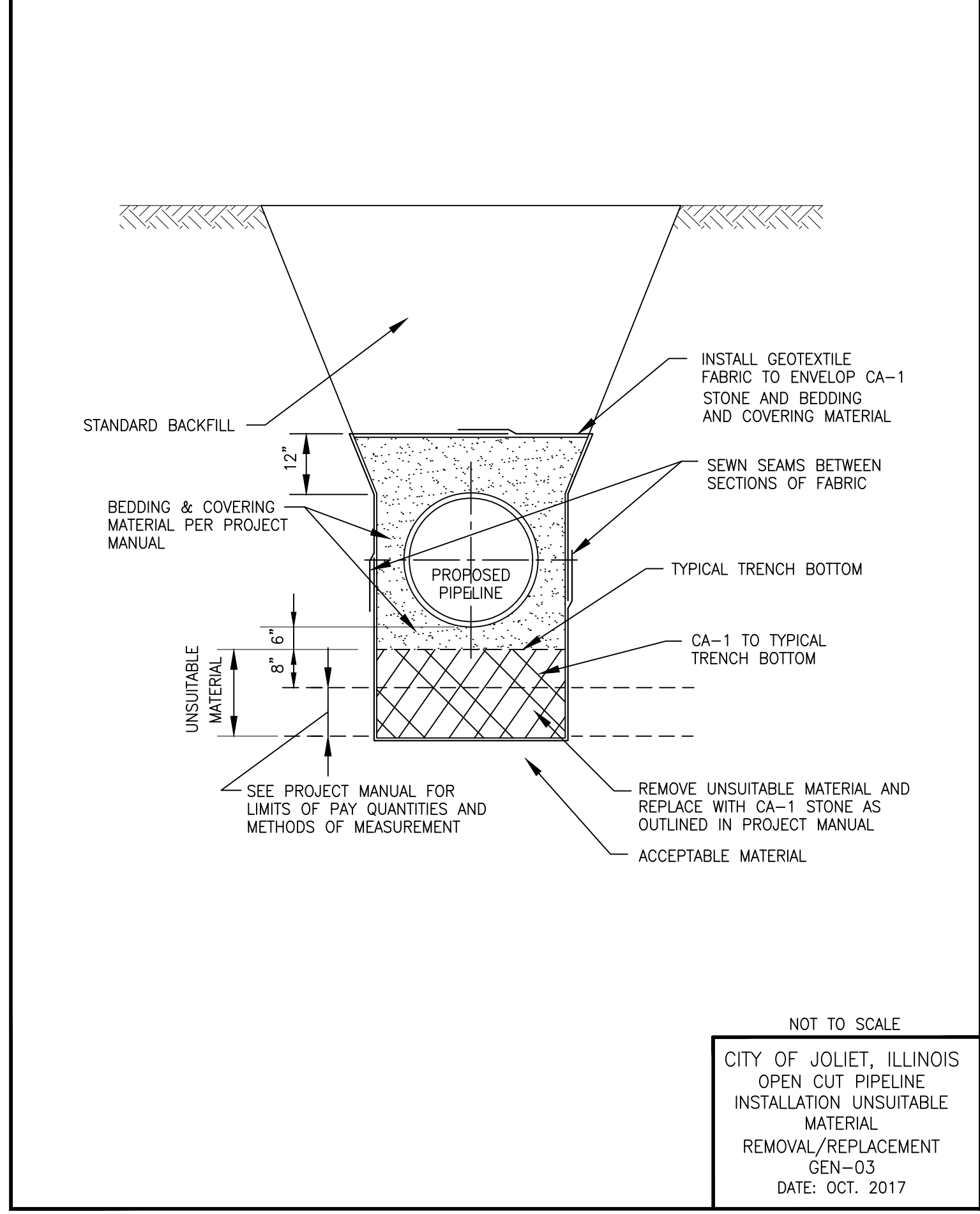
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DRIVEWAY PAVEMENT
DETAIL
PVT-01
DATE: OCT. 2017



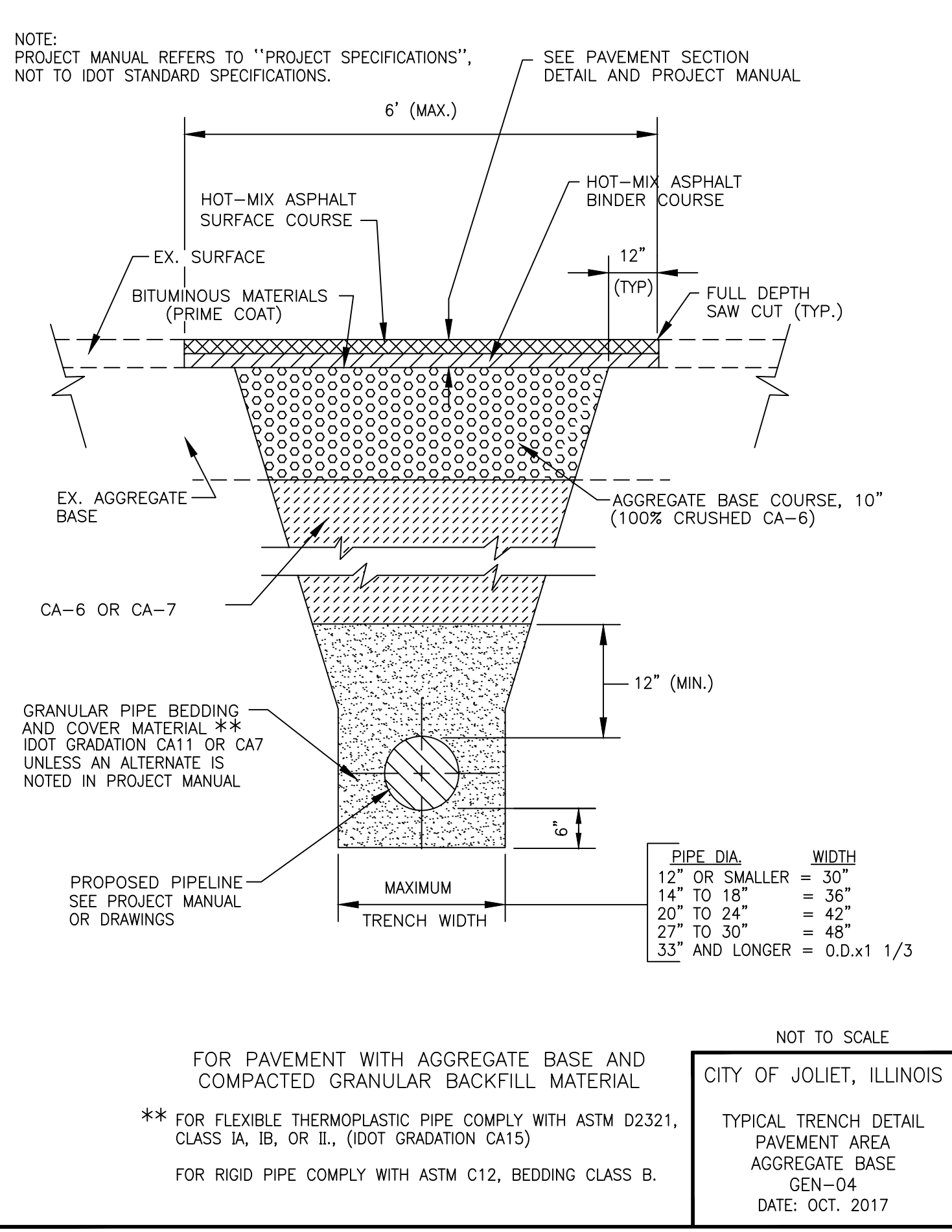
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FIRE HYDRANT
DETAIL
WTR-03
DATE: JUL. 2019



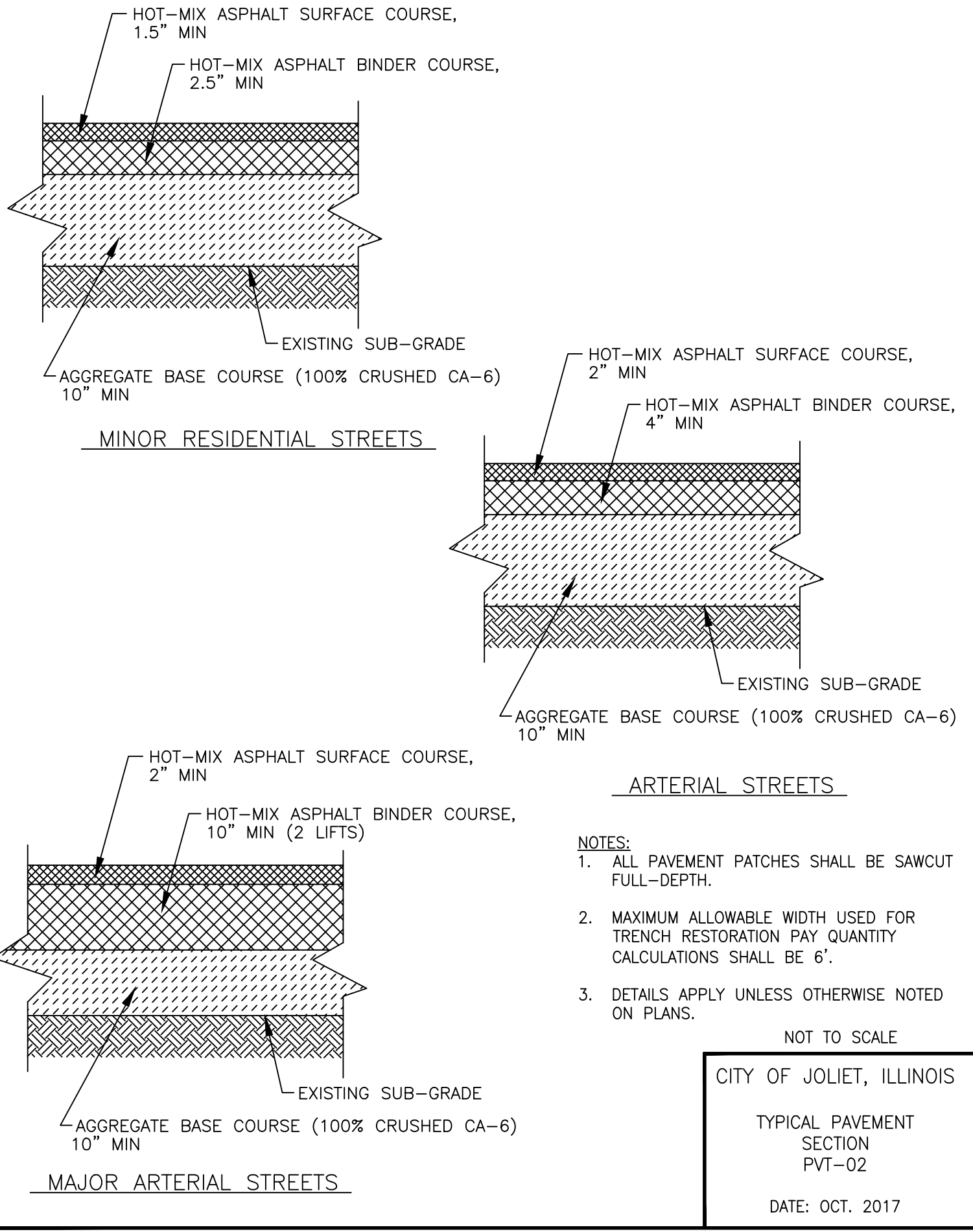
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CITY OF JOLIET, ILLINOIS
INLET PROTECTION
FILTER DETAIL
GEN-02
DATE: OCT. 2017



NOT TO SCALE
CITY OF JOLIET, ILLINOIS
OPEN CUT PIPELINE
INSTALLATION UNSUITABLE
MATERIAL
REMOVAL/REPLACE
MENT
GEN-03
DATE: OCT. 2017



NOT TO SCALE
CITY OF JOLIET, ILLINOIS
TYPICAL TRENCH DETAIL
PAVEMENT AREA
AGGREGATE BASE
GEN-04
DATE: OCT. 2017



NOT TO SCALE
CITY OF JOLIET, ILLINOIS
TYPICAL PAVEMENT
SECTION
PVT-02
DATE: OCT. 2017

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL_3D\01_SHTS-PLANS\211917-COVER_GEN_DET-STS-ST.PATS AREA PH 1B.DWG DETAILS
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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123

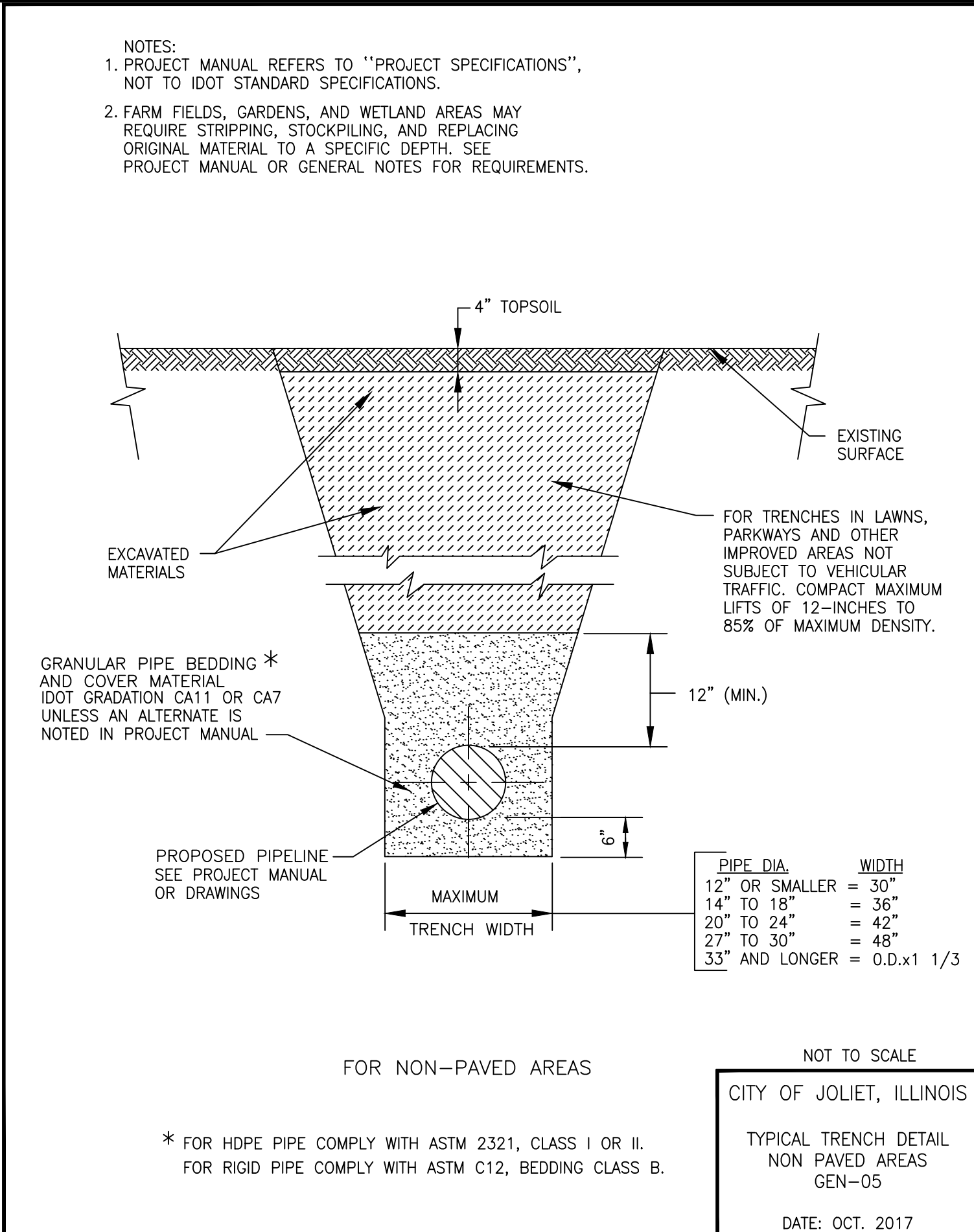
DETAILS	
SCALE:	AS NOTED
PROJECT NO:	211917

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	31
CHECKED - LMS		
DATE - 11/07/22		

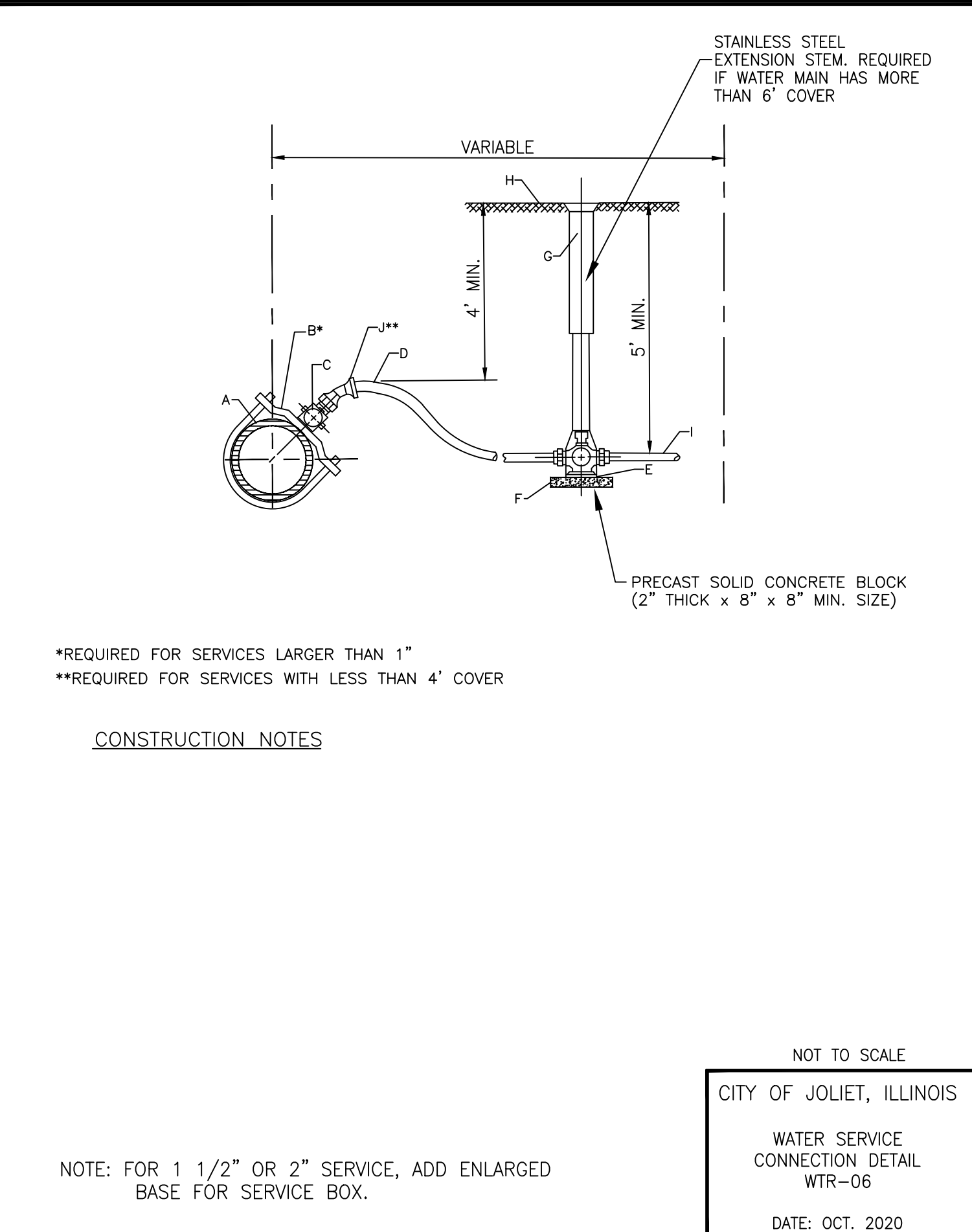
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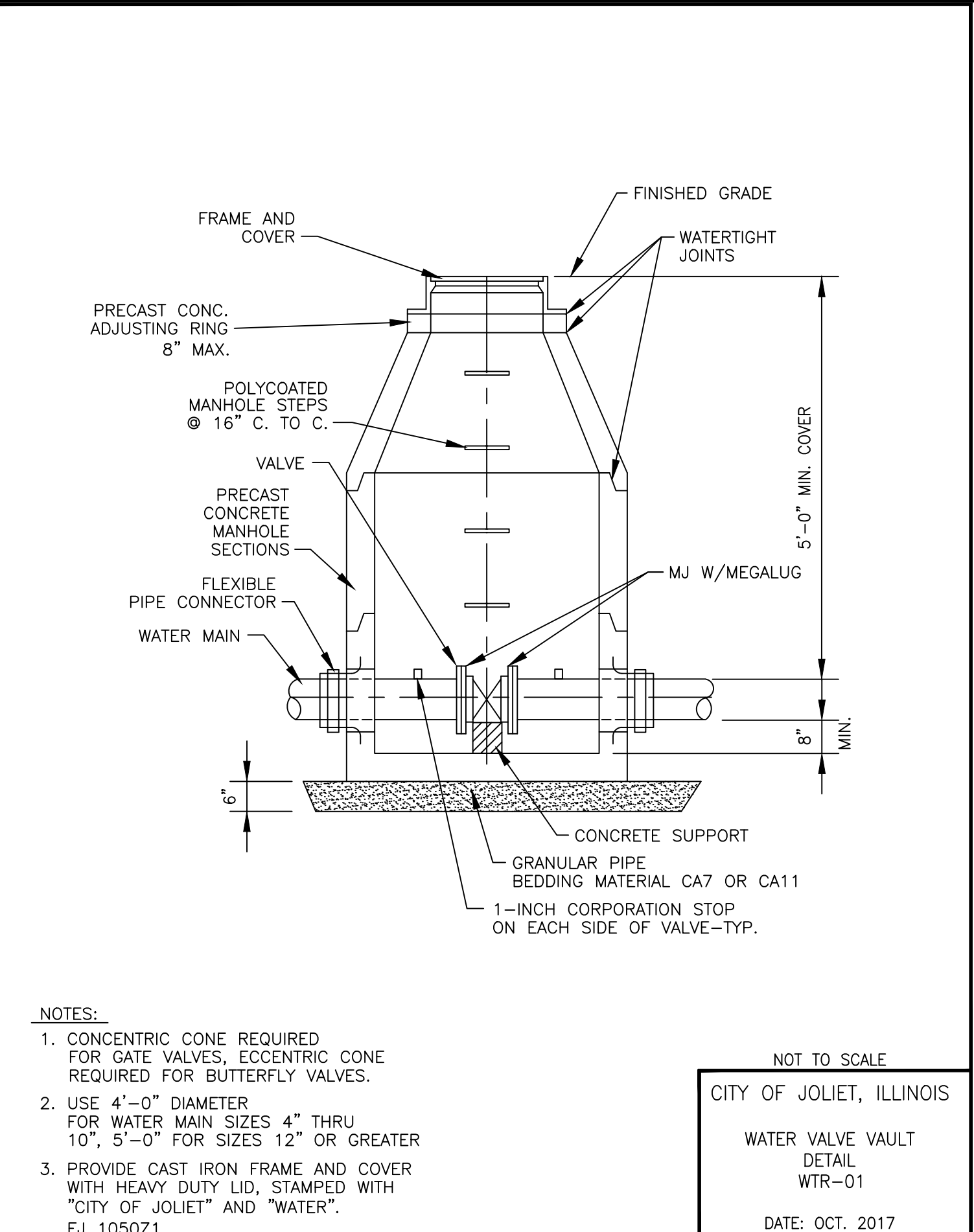
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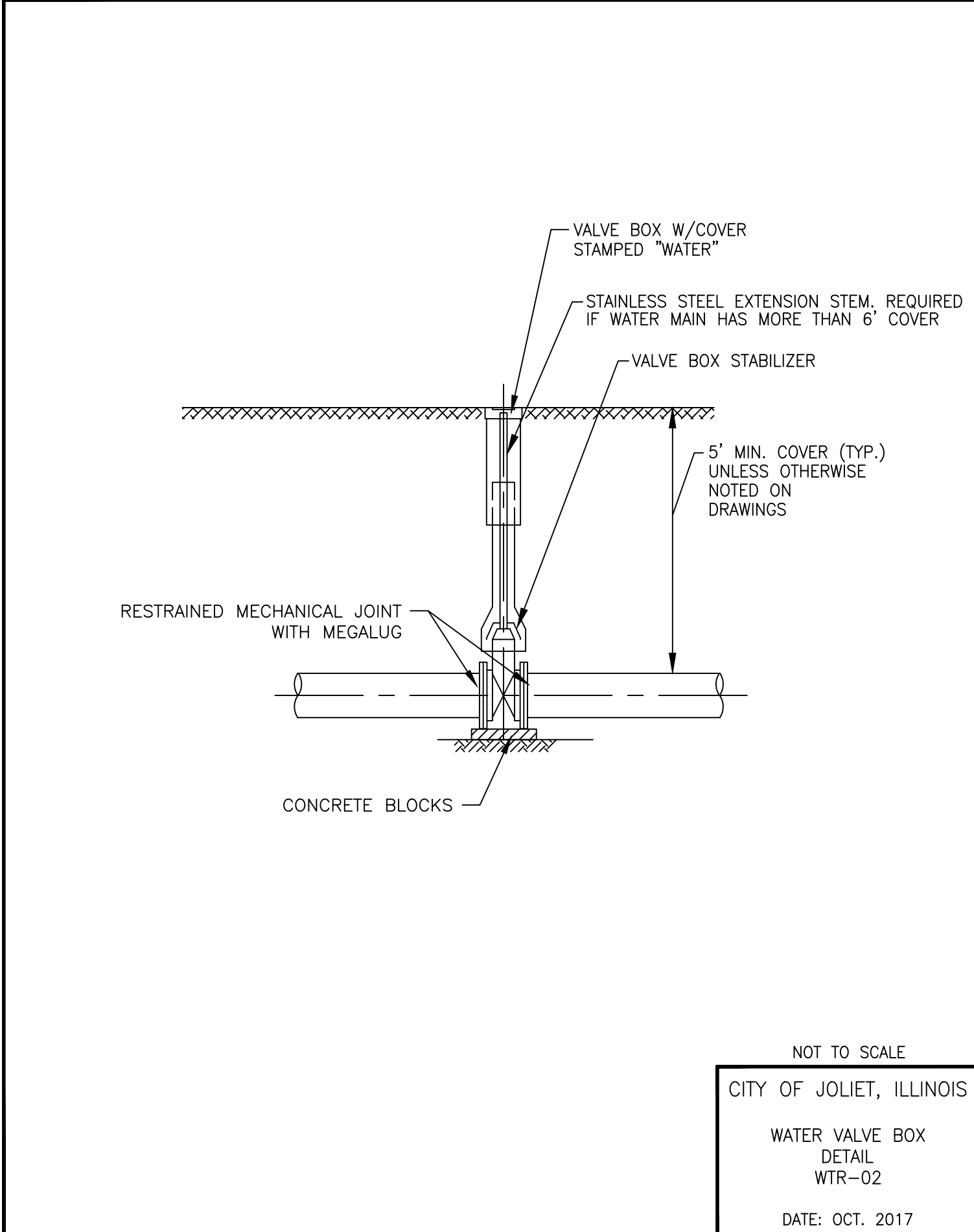
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 CITY OF JOLIET, ILLINOIS
 TYPICAL TRENCH DETAIL
 NON PAVED AREAS
 GEN-05
 DATE: OCT. 2017



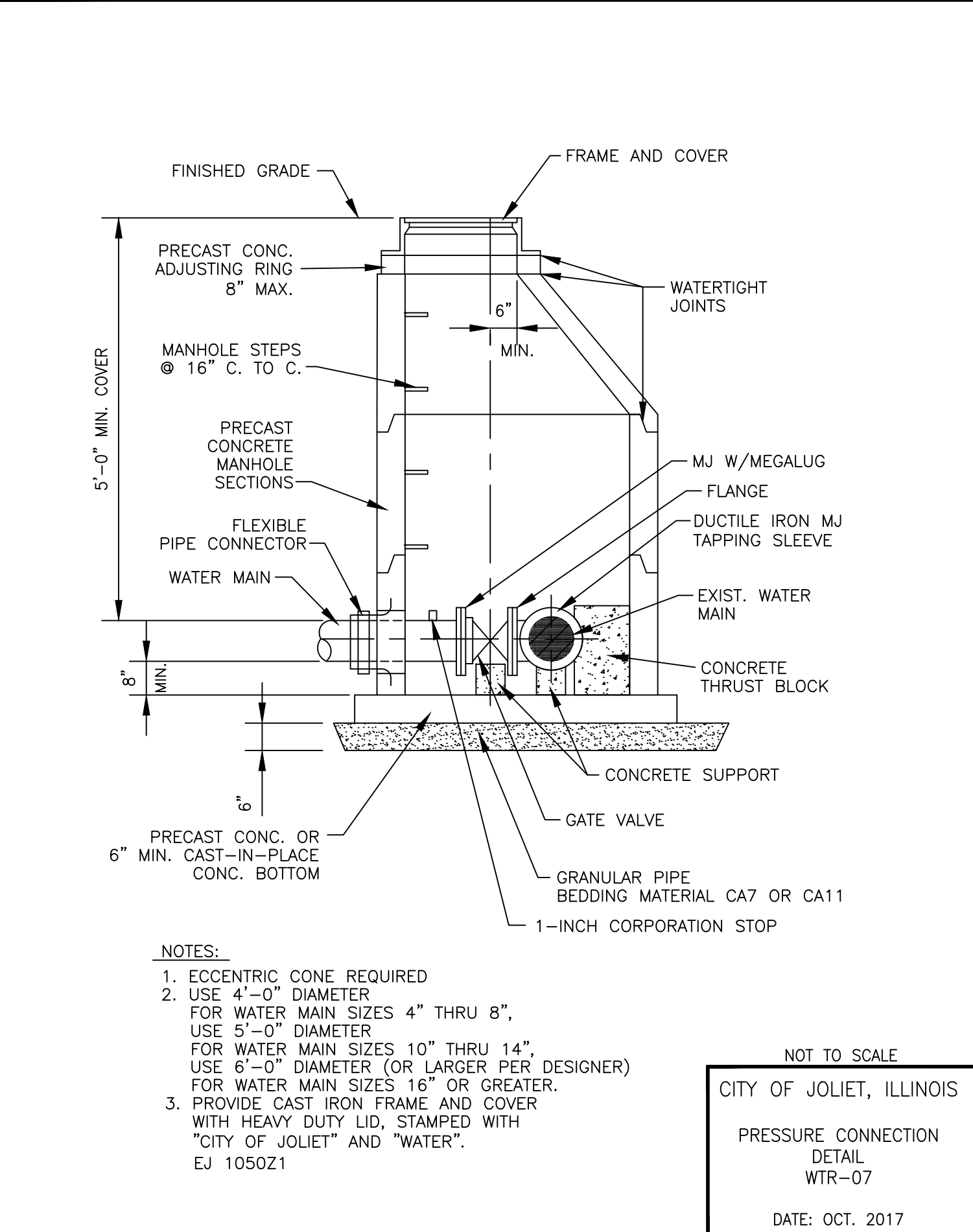
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 CITY OF JOLIET, ILLINOIS
 WATER SERVICE
 CONNECTION DETAIL
 WTR-06
 DATE: OCT. 2020



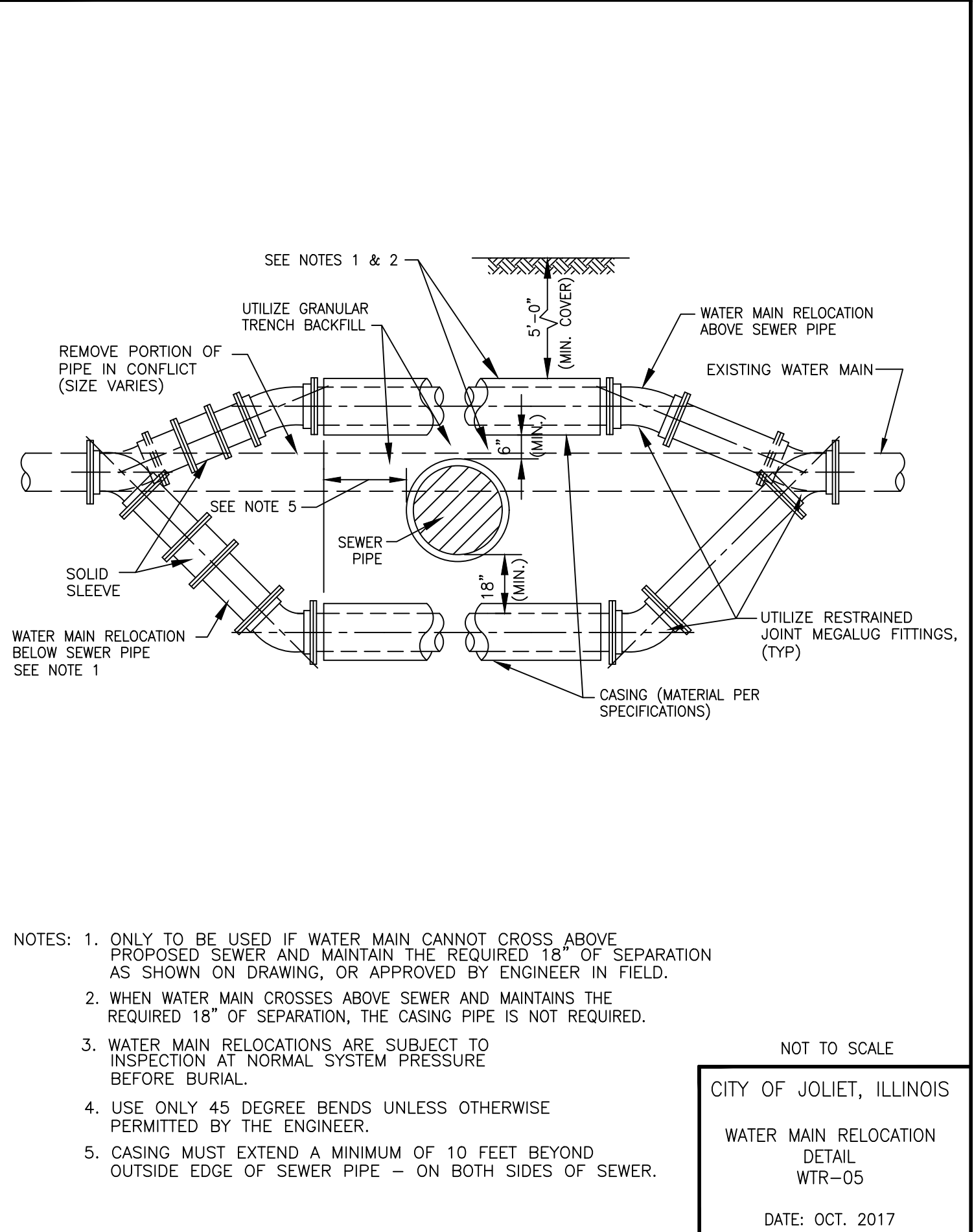
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 WATER VALVE VAULT
 DETAIL
 WTR-01
 DATE: OCT. 2017



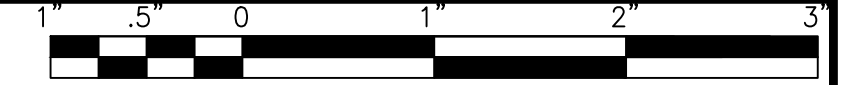
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 CITY OF JOLIET, ILLINOIS
 WATER VALVE BOX
 DETAIL
 WTR-02
 DATE: OCT. 2017



NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 PRESSURE CONNECTION
 DETAIL
 WTR-07
 DATE: OCT. 2017



NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 WATER MAIN RELOCATION
 DETAIL
 WTR-05
 DATE: OCT. 2017



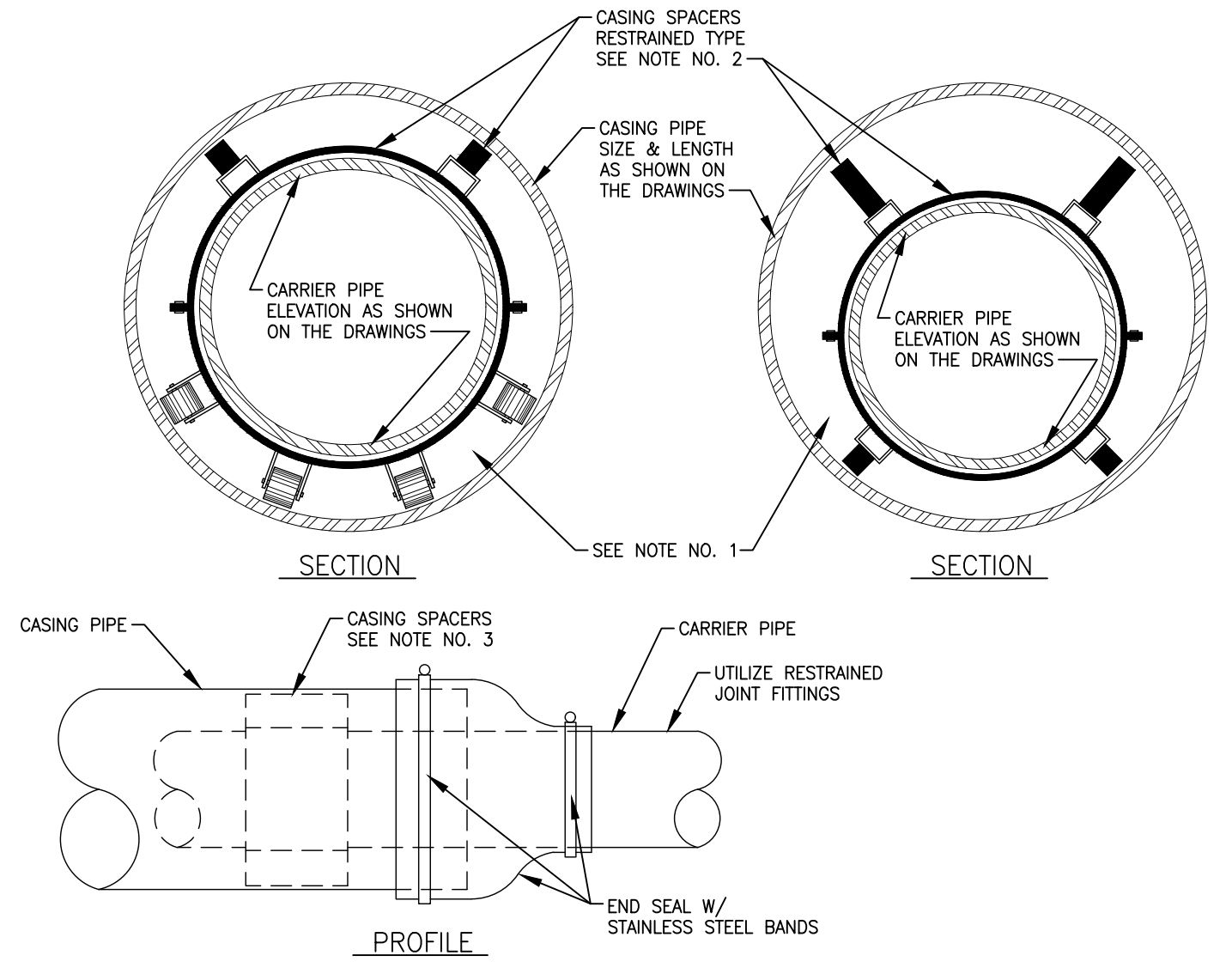
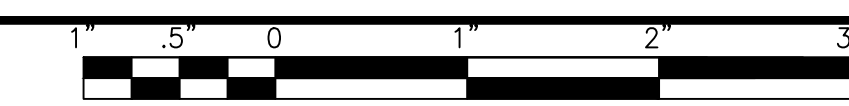
FINAL DESIGN FOR BIDDING

CITY OF JOLIET, ILLINOIS
 ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2690-0123

DETAILS

SCALE: AS NOTED PROJECT NO: 211917

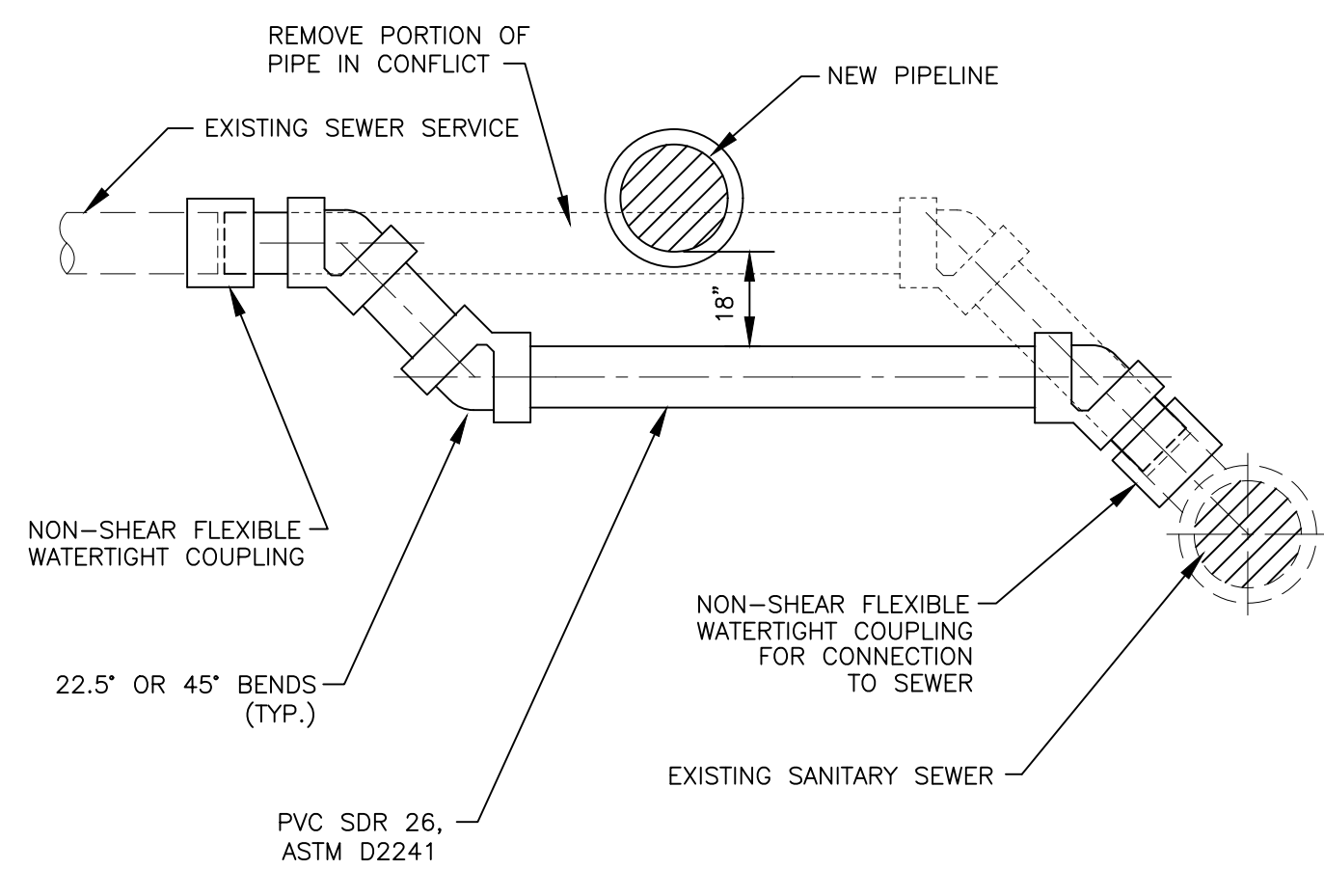
DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	33	32
CHECKED - LMS		
DATE - 11/07/22		



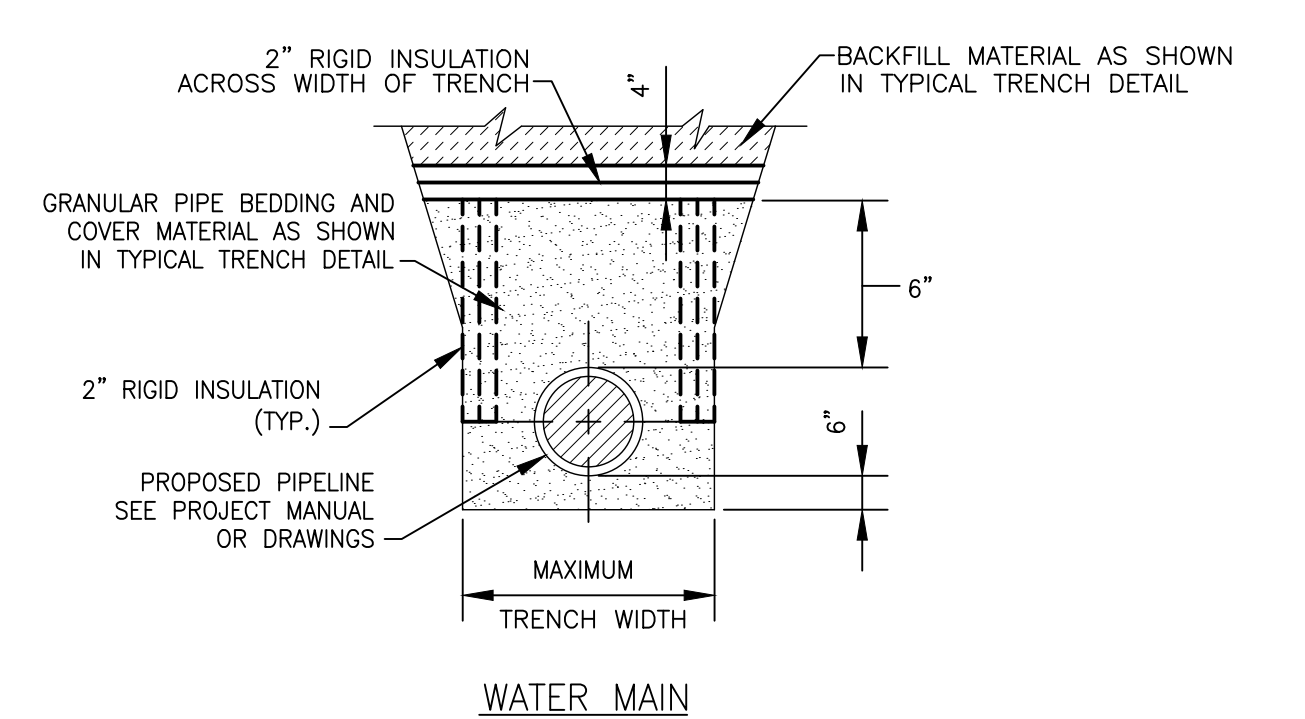
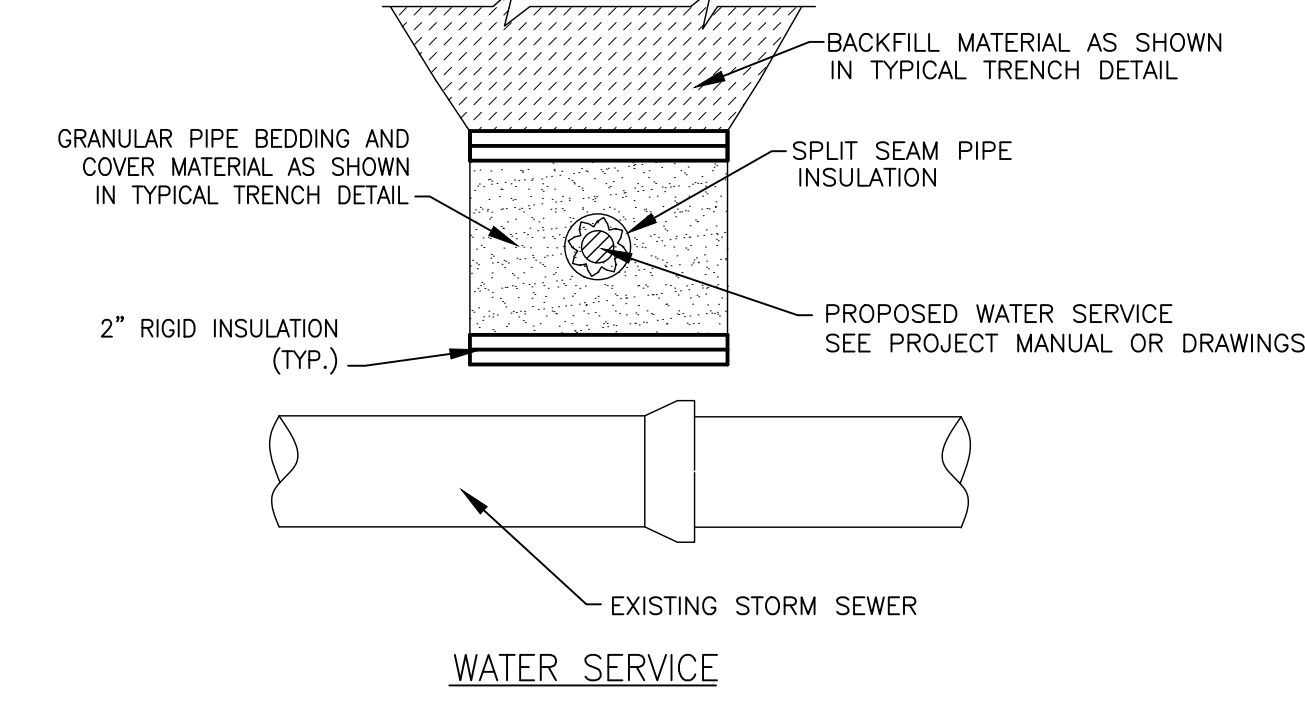
NOTES

- FILLING OF ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH SAND OR PEA GRAVEL IS NOT REQUIRED WHEN UTILIZING CASING SPACERS, UNLESS CONTRACTOR IS INSTRUCTED TO DO SO ON DRAWINGS OR IN SPECIFICATIONS.
- WHERE CARRIER PIPE IS NOT CENTERED IN CASING PIPE, PROVIDE CASING SPACERS WITH LEGS THAT EXTEND TO WITHIN 1-INCH OF CASING INSIDE DIAMETER ON ALL SIDES (RESTRAINED TYPE).
- PROVIDE NUMBER OF SPACERS AS INSTRUCTED BY SPACER MANUFACTURER, WITH A MINIMUM OF ONE SPACER ON EACH SIDE OF A PIPE JOINT, AND ONE SPACER BETWEEN JOINTS. (THREE (MIN.) PER PIPE LENGTH)
- ALL CARRIER PIPE INSTALLED WITHIN CASING PIPE TO BE RESTRAINED JOINT TYPE

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
CASING DETAIL
GEN-01
DATE: OCT. 2017



NOT TO SCALE
CITY OF JOLIET, ILLINOIS
SANITARY SEWER SERVICE RELOCATION
SAN-03
DATE: OCT. 2017



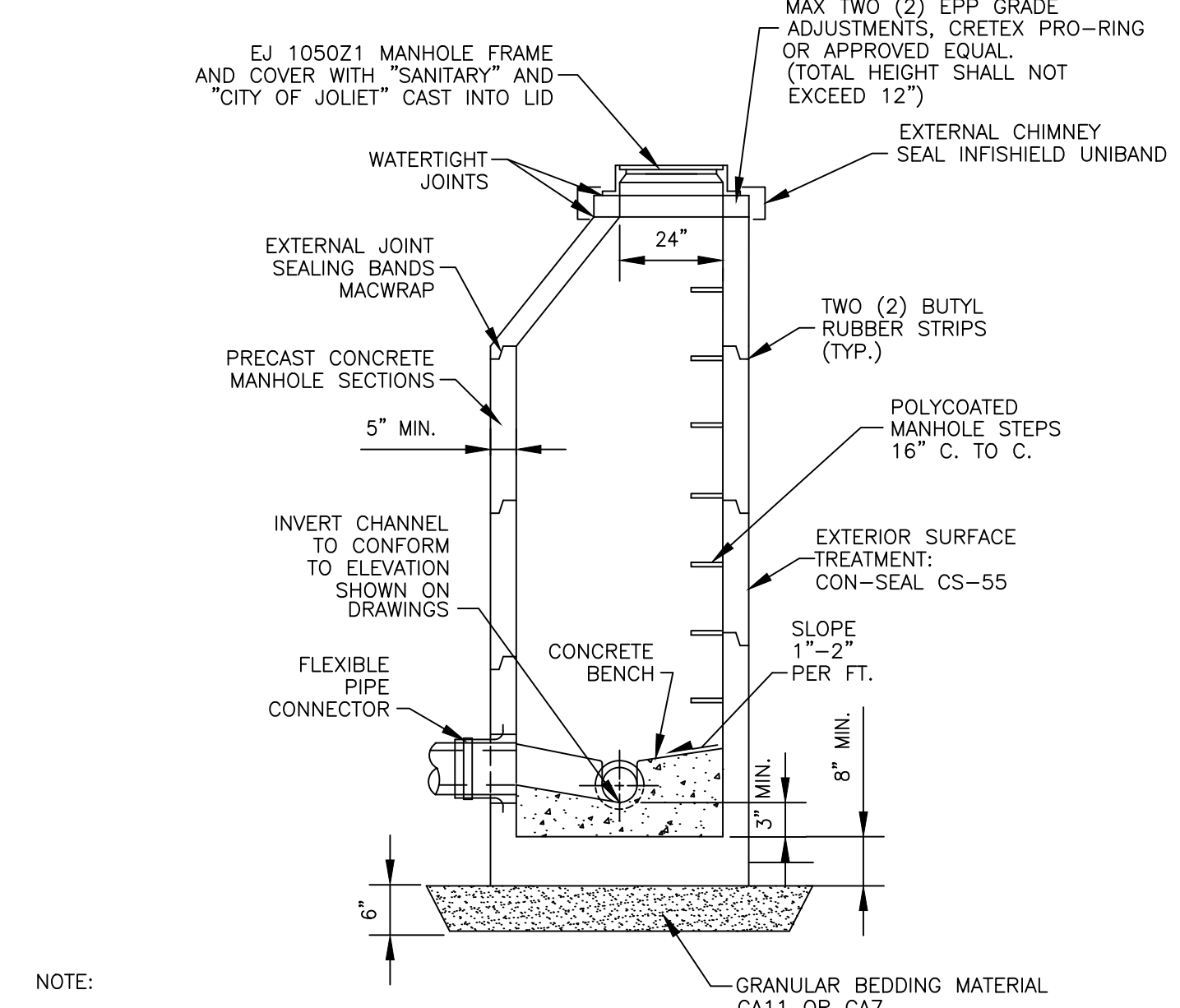
NOTES:

- TO BE USED WHEN WATER MAIN AND / OR WATER SERVICE BURY DEPTH IS < 4' OR WHEN WATER SERVICE CROSSES ABOVE STORM SEWER.

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
PIPE INSULATION DETAIL
WTR-04
DATE: OCT. 2017

CITY OF JOLIET
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
SANITARY MANHOLE STRUCTURE TABLES

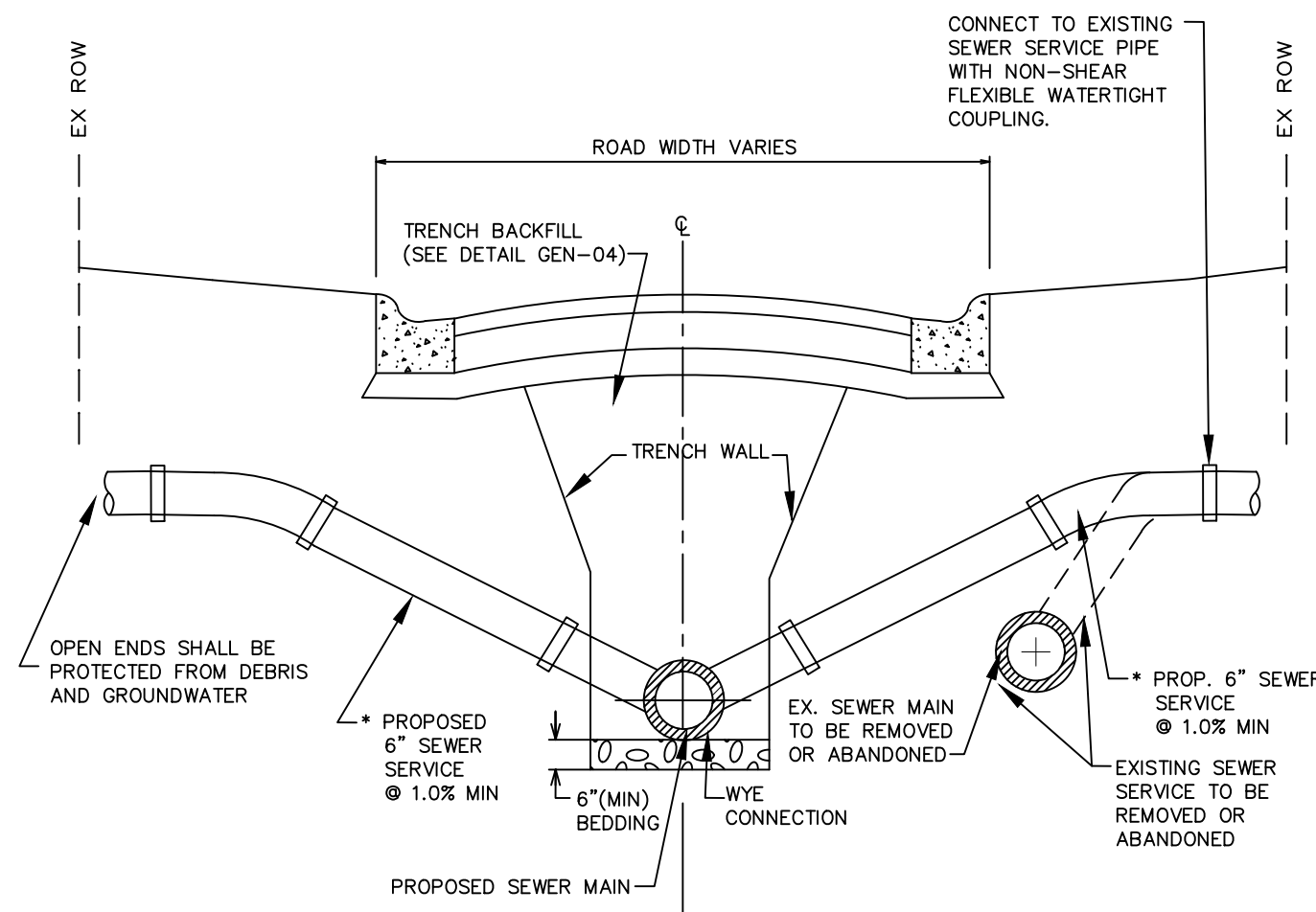
SHEET NO.	STRUCTURE NO.	STATION	STRUCTURE TYPE	RIM/EOP	INVERTS
SHEET 10	P-SA-MH-1	61+00	SANITARY MANHOLE, 4' DIAMETER	593.16	583.67 8" E
SHEET 11	X-SA-MH-25	63+00	SANITARY MANHOLE, 4' DIAMETER	585.68	575.30 8" W 575.18 18" E 575.63 18" N
SHEET 17	X-SA-MH-50	200+95	SANITARY MANHOLE, 4' DIAMETER	575.91	568.10 8" S 568.10 8" N
SHEET 17	P-SA-MH-2	203+40	SANITARY MANHOLE, 4' DIAMETER	578.06	571.27 8" N 571.27 8" S
SHEET 18	P-SA-MH-3	206+25	SANITARY MANHOLE, 4' DIAMETER	579.67	572.43 8" S
SHEET 23	X-SA-MH-19	235+90	SANITARY MANHOLE, 4' DIAMETER	619.36	609.76 10" S 609.78 8" NE 609.76 8" N
SHEET 26	P-SA-MH-4	271+80	SANITARY MANHOLE, 4' DIAMETER	624.16	620.95 8" SE
SHEET 26	P-SA-MH-5	275+25	SANITARY MANHOLE, 4' DIAMETER	622.05	611.77 8" W 611.77 8" S
SHEET 29	X-SA-MH-410	317+20	SANITARY MANHOLE, 4' DIAMETER	596.92	586.46 6" S 585.58 18" W 586.46 8" N 585.58 18" E
SHEET 29	P-SA-MH-6	318+25	SANITARY MANHOLE, 4' DIAMETER	603.34	592.57 8" N 592.63 8" S
SHEET 30	P-SA-MH-7	320+25	SANITARY MANHOLE, 4' DIAMETER	616.89	608.83 8" S



NOTE:

- ECCENTRIC CONES REQUIRED, FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
- MANHOLE DIAMETER SHALL BE DETERMINED BY THE SEWER DEPTH, THE SEWER OUTSIDE DIAMETER, RELATIVE ANGLES OF SEWERS TO EACH OTHER, THE SIZE OF HOLES CORED/CAST FOR BOOTS, AND A MINIMUM OF 8" BETWEEN CORED/CAST HOLES. FOR SEWER SIZES 8" THROUGH 15", USE 4'-0" DIAMETER. FOR SEWER DEPTHS 15" AND GREATER, USE 5'-0" DIAMETER.
- ALL LIFT HOLES ARE TO BE GROUTED FROM THE INSIDE AND OUTSIDE BEFORE BACKFILLING.
- MANHOLES THAT HAVE FORCE MAINS DISCHARGING INTO THEM SHALL BE COATED WITH SHERWIN WILLIAMS DURAPLATE 6100 OR RAVEN 405

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
SANITARY MANHOLE DETAIL
SAN-01
DATE: OCT. 2017



NOT TO SCALE
CITY OF JOLIET, ILLINOIS
SANITARY SEWER SERVICE
SAN-02
DATE: OCT. 2017

DI-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)

FITTING TYPE	DIAMETER (IN)					
	4"	6"	8"	10"	12"	16"
HORIZONTAL BEND						
11.25'	5	5	5	5	5	5
22.5'	5	5	5	5	10	10
45'	5	10	10	10	15	15
90'	15	20	20	25	30	40
VERTICAL BEND						
45'	20	25	35	40	45	60
TEE	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	20	30	35	45	50	65
VALVE (TESTING PRESSURE)	40	60	75	90	105	135
REDUCER						
6" NOMINAL PIPE	30	-	-	-	-	-
8" NOMINAL PIPE	55	35	-	-	-	-
10" NOMINAL PIPE	75	55	30	-	-	-
12" NOMINAL PIPE	90	80	55	35	-	-
16" NOMINAL PIPE	125	115	100	80	60	-

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
POLYWRAPPED DI RJT DETAIL
RJT-01
DATE: OCT. 2022

PVC-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)

FITTING TYPE	DIAMETER (IN)					
	4"	6"	8"	10"	12"	16"
HORIZONTAL BEND						
11.25'	5	5	5	5	5	5
22.5'	5	5	5	5	5	10
45'	5	10	10	10	15	15
90'	10	15	15	20	25	35
VERTICAL BEND						
45'	15	15	20	25	30	40
TEE	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	15	20	25	30	35	45
VALVE (TESTING PRESSURE)	30	40	50	60	70	90
REDUCER						
6" NOMINAL PIPE	20	-	-	-	-	-
8" NOMINAL PIPE	35	20	-	-	-	-
10" NOMINAL PIPE	50	35	20	-	-	-
12" NOMINAL PIPE	60	50	40	20	-	-
16" NOMINAL PIPE	80	75	65	55	40	-

NOT TO SCALE
CITY OF JOLIET, ILLINOIS
POLYWRAPPED PVC RJT DETAIL
RJT-02
DATE: OCT. 2022

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CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2690-0123**

SCALE: AS NOTED	PROJECT NO: 211917	DESIGNED - EK	TOTAL SHEETS	SHEET NO.
		DRAWN - JJS	33	33
		CHECKED - LMS		
		DATE - 11/07/22		

DATE: OCT. 2022
FINAL DESIGN FOR BIDDING