

CITY OF JOLIET, ILLINOIS

REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2859-0125

WATER MAIN REPLACEMENT IEPA LOAN NO. L17-6076

LEAD SERVICE REPLACEMENT IEPA LOAN NO. L17-6079



VICINITY MAP

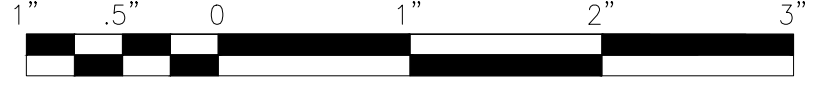
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C012	COTTAGE PLACE STA 120+00 TO STA 125+56 PLAN AND PROFILE
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C014	JASPER STREET STA 134+00 TO STA 138+50 PLAN AND PROFILE
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C017	FIK AVENUE STA 154+00 TO STA 158+50 PLAN AND PROFILE
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C019	ABANDONMENT DETAIL
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EXISTING UTILITIES: JULIE NO. X233611170

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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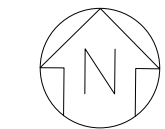
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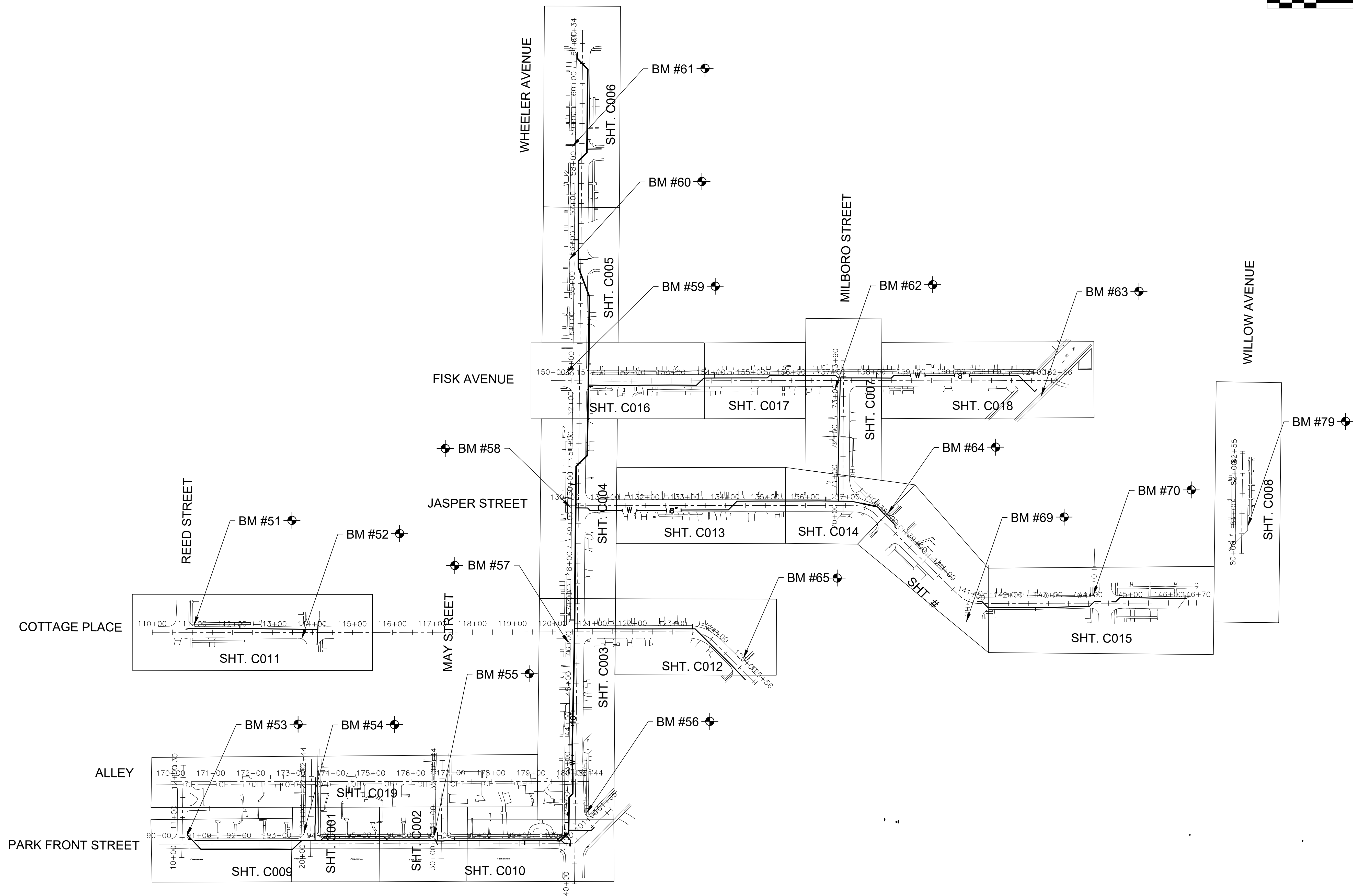
Madisyn Amoral
PROJECT ENGINEER

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NO SCALE



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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

SHEET KEY

SCALE: AS NOTED PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	G001
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN
FOR BIDDING

LEGEND

EXISTING		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 VAULT	
	TELEPHONE RISER	
	CABLE TELEVISION (BURIED)	
	CABLE T.V. RISER	
	CABLE T.V. VAULT	
	UNDERGROUND ELECTRICAL	

LEGEND

EXISTING		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	
	BENCH MARK	
	SURVEY CONTROL POINT	
	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

12" (HATCHED SHALL BE REMOVED)
 16" (HATCHED SHALL BE REMOVED)

BENCHMARKS (NAVD 88 DATUM)

B.M. # 51		RAILROAD SPIKE SET IN SOUTH FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHEAST CORNER OF COTTAGE PLACE ELEV. = 632.43
B.M. # 52		RAILROAD SPIKE SET IN NORTHEAST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHWEST CORNER OF COTTAGE PLACE AND PARK DRIVE ELEV. = 636.328
B.M. # 53		RAILROAD SPIKE SET IN SOUTH FACE OF POWER POLE W\ LIGHT LOCATED AT ADDRESS 1107 WEST PARK DRIVE ELEV. = 604.926
B.M. # 54		RAILROAD SPIKE SET IN SOUTHEAST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHWEST CORNER OF WEST PARK DRIVE AND SOUTH PARK DRIVE ELEV. = 620.894
B.M. # 55		RAILROAD SPIKE SET IN SOUTHEAST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHWEST CORNER OF WEST PARK DRIVE AND MAY STREET ELEV. = 631.252
B.M. # 56		RAILROAD SPIKE SET IN SOUTHWEST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHEAST CORNER OF WHEELER AVENUE AND WEST PARK DRIVE ELEV. = 638.27
B.M. # 57		RAILROAD SPIKE SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHWEST CORNER OF WHEELER AVENUE AN COTTAGE PLACE ELEV. = 638.324
B.M. # 58		RAILROAD SPIKE SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHWEST CORNER OF WHEELER AVENUE AND JASPER STREET ELEV. = 638.575
B.M. # 59		RAILROAD SPIKE SET IN SOUTHEAST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHWEST CORNER OF WHEELER AVENUE AND FISK AVENUE ELEV. = 637.739
B.M. # 60		RAILROAD SPIKE SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT ADDRESS 325 WHEELER AVENUE ELEV. = 635.387
B.M. # 61		RAILROAD SPIKE SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT ADDRESS 309 WHEELER AVENUE ELEV. = 638.531
B.M. # 62		RAILROAD SPIKE SET IN NORTHEAST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHWEST CORNER OF JASPER STREET AND MILLBORO PLACE ELEV. = 617.445
B.M. # 63		RAILROAD SPIKE SET IN NORTHEAST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHWEST CORNER OF WEST PARK DRIVE AND JASPER STREET ELEV. = 631.273
B.M. # 64		RAILROAD SPIKE SET IN SOUTHWEST FACE OF POWER POLE W\ LIGHT LOCATED AT INTERSECTION OF JASPER STREET AND WEST PARK DRIVE ELEV. = 613.714
B.M. # 65		RAILROAD SPIKE SET IN SOUTHWEST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHEAST CORNER OF WEST PARK DRIVE AND COTTAGE PLACE ELEV. = 634.033
B.M. # 66		RAILROAD SPIKE SET IN NORTHWEST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHEAST CORNER OF WEST PARK DRIVE AND COCHRANE AVENUE ELEV. = 637.145
B.M. # 69		RAILROAD SPIKE SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHWEST CORNER OF PROSPECT PLACE AND MILLBORO STREET ELEV. = 610.332
B.M. # 70		RAILROAD SPIKE SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT NORTHWEST CORNER OF RAYNOR AVENUE AND JASPER STREET ELEV. = 625.55
B.M. # 79		RAILROAD SPIKE SET IN WEST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHEAST END OF WILLOW AVENUE ELEV. = 621.744

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

FINAL DESIGN FOR BIDDING

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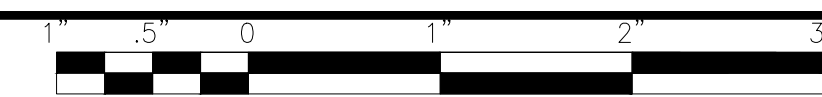
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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

LEGEND, ABBREVIATIONS AND BENCHMARKS

SCALE:	AS NOTED	PROJECT NO:	2325880	DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
				DRAWN - ABN	27	6002
				CHECKED - PMK		
				DATE - 10/24/2024		

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".
- 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-SEATED, TIGHT CLOSING TYPE SUITABLE FOR BURIED SERVICE. ACCEPTABLE VALVE MANUFACTURERS ARE CLOW AND PRATT.
- 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.
 - COTTAGE PLACE, FISK AVENUE, JASPER STREET, MAY STREET, MILLBORO STREET, PARK AVENUE, PARK DRIVE, PARK FRONT STREET, RAYNOR AVENUE, REED STREET, WESTWOOD AVENUE, AND WILLOW AVENUE SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.
 - WHEELER AVENUE SHALL HAVE 5.5 INCHES OF BINDER AND 1.5 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 7 DAYS OF IEPA APPROVAL. 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

SUMMARY OF QUANTITIES

No.	PAY ITEM	UNIT	QUANTITY
PART A - WATER MAIN IMPROVEMENTS			
1	TRAFFIC CONTROL AND PROTECTION	LSUM	1
2	GRANULAR TRENCH BACKFILL	CUYD	5,100
3	WATER MAIN (OPEN CUT), 6-INCH	FOOT	477
4	WATER MAIN (OPEN CUT), 6-INCH DUCTILE IRON	FOOT	177
5	WATER MAIN (OPEN CUT), 8-INCH	FOOT	4,039
6	WATER MAIN (OPEN CUT), 8-INCH DUCTILE IRON	FOOT	354
7	WATER MAIN (OPEN CUT), 16-INCH DUCTILE IRON	FOOT	2,174
8	CASING PIPE (TUNNELING UNDER SEWER), 16-INCH	FOOT	38
9	MISCELLANEOUS FITTINGS	POUND	9,500
10	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	2
11	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	11
12	CONNECT TO WATER MAIN (NON-PRESSURE), 16-INCH	EACH	2
13	CONNECT TO WATER MAIN (PRESSURE), 8-INCH X 8-INCH	EACH	3
14	GATE VALVE, 6-INCH	EACH	1
15	GATE VALVE, 8-INCH	EACH	17
16	BUTTERFLY VALVE, 16-INCH	EACH	6
17	VALVE BOX	EACH	1
18	VALVE VAULT, 4-FOOT DIAMETER	EACH	20
19	VALVE VAULT, 5-FOOT DIAMETER	EACH	8
20	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT	3
21	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	VFT	3
22	FIRE HYDRANT	EACH	18
23	FIRE HYDRANT BARREL EXTENSION	VFT	3
24	LINE STOP, 6-INCH	EACH	1
25	LINE STOP, 8-INCH	EACH	1
26	LINE STOP, 16-INCH	EACH	1
27	SANITARY SEWER REMOVAL AND REPLACEMENT, 8-INCH	FOOT	109
28	SANITARY SEWER REMOVAL AND REPLACEMENT, 10-INCH	FOOT	41
29	SANITARY SEWER REMOVAL AND REPLACEMENT, 12-INCH	FOOT	270
30	STORM SEWER REMOVAL AND REPLACEMENT, 10-INCH	FOOT	85
31	STORM SEWER REMOVAL AND REPLACEMENT, 12-INCH	FOOT	53
28	STORM INLET, TYPE A, 2' DIAMETER	EACH	2
28	CATCH BASIN, TYPE 1, 4' DIAMETER	EACH	1
34	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
35	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH	125
36	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH	1
37	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2-INCH	EACH	1
38	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	1,125
39	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	50
40	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	FOOT	50
41	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	3,002
42	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	50
43	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	FOOT	50
44	WATER SERVICE CASING PIPE	FOOT	190
45	WATER SERVICE LINE TYPE L, 3/4-INCH	FOOT	25
46	WATER SERVICE LINE TYPE L, 1-INCH	FOOT	45
47	WATER SERVICE LINE TYPE L, 1.5-INCH	FOOT	25
48	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE	EACH	4
49	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	5
50	WATER METER RELOCATION	EACH	4
51	WATER METER REPLACEMENT	EACH	9
52	PROJECT MANAGEMENT	HOOR	27
53	UTILITY LOCATION - PRIVATE PROPERTY	EACH	9
54	LANDSCAPING PROJECT MANAGEMENT	HOOR	18
55	LANDSCAPING RESTORATION ALLOWANCE	EACH	9
56	SHRUB AND BRUSH DISPOSAL	EACH	18
57	FENCE TO BE REMOVED AND RE-ERECTED	FOOT	45

58	CRIMP WATER SERVICE	EACH	9
59	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT	190
60	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	43
61	EXPLORATORY EXCAVATION	EACH	1
62	INLET PROTECTION FILTER	EACH	54
63	RESTORATION OF LAWNS AND PARKWAYS	SQYD	1,100
64	TEMPORARY HOT-MIX ASPHALT PAVEMENT	SQYD	99
65	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE	SQYD	3,600
66	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 5.5-INCH BINDER 1.5-INCH SURFACE	SQYD	1,700
67	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SQYD	100
68	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQYD	250
69	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,700
70	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	2,800
71	BRICK PATIO REMOVAL AND REPLACEMENT	SQFT	50
72	DETECTABLE WARNINGS	SQFT	60
73	PAVEMENT MARKING - LINE, 4-INCH (THERMOPLASTIC)	FOOT	120
74	PAVEMENT MARKING - LINE, 6-INCH (THERMOPLASTIC)	FOOT	1,200
75	PAVEMENT MARKING - LINE, 24-INCH (THERMOPLASTIC)	FOOT	130
76	REMOVAL AND REPLACEMENT OF SIGNS	EACH	1
77	TREE STUMP REMOVAL	EACH	4
78	TREE ROOT PRUNING	EACH	36
79	TREE TRIMMING	LSUM	1
80	CHANGEABLE MESSAGE SIGNS	CAL MO	3
81	DUST CONTROL	DAY	55
82	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	98
83	SOIL TESTS FOR CONTAMINANTS	EACH	15
84	CONTAMINATED WASTE DISPOSAL	CUYD	98
PART B - LEAD SERVICE LINE IMPROVEMENTS			
85	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOOR	108
86	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4-INCH	FOOT	25
87	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	375
88	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	25
89	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 2-INCH	FOOT	25
90	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2-INCH	FOOT	360
91	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	18
92	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD SERVICE REPLACEMENT)	EACH	18
93	UTILITY LOCATION - PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	36
94	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	18
95	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	EACH	18
96	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOOR	72
97	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	36
98	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	72
99	FENCE TO BE REMOVED AND RE-ERECTED (LEAD SERVICE REPLACEMENT)	FOOT	180
100	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	200
101	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE (LEAD SERVICE REPLACEMENT)	SQYD	100
102	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 5.5-INCH BINDER 1.5-INCH SURFACE (LEAD SERVICE REPLACEMENT)	SQYD	100
103	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH (LEAD SERVICE REPLACEMENT)	SQYD	100
104	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH (LEAD SERVICE REPLACEMENT)	SQYD	50
105	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	FOOT	200
106	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	400
107	BRICK PATIO REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	50

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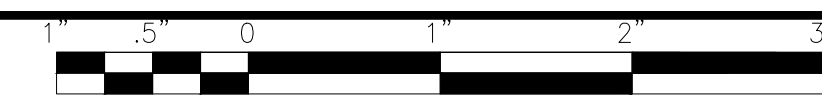
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REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

GENERAL NOTES AND SCHEDULE OF QUANTITIES

SCALE: AS NOTED PROJECT NO: 2325880

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MAINTENANCE OF TRAFFIC NOTES

1. THE SUGGESTED MAINTENANCE OF TRAFFIC CONTROL IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED BY THE CURRENT VERSION OF THE IDOT HIGHWAY STANDARDS, THE CURRENT VERSION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
2. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK PRIOR TO THE START OF WORK FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNTIL PREPLANNED SEQUENCE OF WORK HAS BEEN APPROVED BY THE CITY. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO BUSINESSES AND MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE CITY AND/OR ENGINEER RESERVES THE RIGHT TO RESTRICT WORK IN ANY SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE OR TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE.
3. THE ENGINEER AND THE CITY SHALL BE NOTIFIED OF ANY CHANGES TO CONSTRUCTION STAGING. ALL CHANGES TO CONSTRUCTION STAGING MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
4. ALL LANE CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS.
5. ALL ROADWAY CLOSURES THAT LAST MORE THAN TWENTY (20) MINUTES THAT DO NOT HAVE A DETOUR IN PLACE REQUIRE A ROADWAY CLOSURE PERMIT APPROVED BY THE CITY PRIOR TO CLOSURE. THE ROADWAY CLOSURE PERMIT SHALL BE SUBMITTED TO THE CITY FOR REVIEW A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO THE ANTICIPATED CLOSURE. IF A ROADWAY IS TO BE CLOSED FOR NO MORE THAN TWENTY (20) MINUTES THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY DEPARTMENTS WITHIN THE CITY PRIOR TO ANY LANE CLOSURE. SEE SPECIFICATION SECTION 01 41 26 FOR DETAILS.
6. ALL TRENCHES, HOLES, AND PITS SHALL BE FILLED OR STEEL PLATED AT THE END OF EACH DAY.
7. REFER TO DISTRICT DETAIL TC-10 FOR SIGNAGE FOR TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS.
8. ALL FLAGGERS REQUIRED FOR MAINTENANCE OF TRAFFIC, INCLUDING ANY FLAGGERS NEEDED TO MAINTAIN TRAFFIC FOR SIDE STREETS AND COMMERCIAL DRIVEWAYS, SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
9. EMERGENCY VEHICLE AND LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY SIGNIFICANT CHANGE IN TRAFFIC CONTROL SHALL HAVE A PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS' NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH IMPACT EMERGENCY SERVICES.
10. THE FURNISHING, INSTALLING, AND RELOCATING OF ALL TRAFFIC SIGNS WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
11. EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED SIGNS CAUSED BY THIS WORK SHALL BE REPLACED BY THE CONTRACTOR.
12. THE COST OF ADDITIONAL DEPLOYMENTS, SETUPS AND/OR MOBILIZATIONS NEEDED FOR STAGED CONSTRUCTION SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
13. CONSTRUCTION VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED OVERNIGHT WITHIN RIGHT-OF-WAY ADJACENT TO OR IN FRONT OF COMMERCIAL BUSINESS PROPERTIES. THE ENGINEER WILL ASSIST THE CONTRACTOR IN IDENTIFYING CONSTRUCTION STAGING LOCATIONS AT THE START OF CONSTRUCTION.
14. PROVIDE ACCESS TO PRIVATE DRIVEWAYS AT ALL TIMES EXCEPT DURING PIPELINE INSTALLATION ACROSS A DRIVEWAY. NOTIFY HOMEOWNERS OR BUSINESSES AT LEAST 24 HOURS, BUT NOT MORE THAN 48 HOURS IN ADVANCE OF AN ANTICIPATED DRIVEWAY CLOSURE, AND AGAIN JUST PRIOR TO CLOSING TO ALLOW HOMEOWNERS TO MOVE THEIR VEHICLES. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
15. ALL TRENCHES CROSSING DRIVEWAYS OR SIDEWALKS SHALL HAVE ACCESS RESTORED AT THE END OF THE WORK DAY.
16. ALL TRENCHES CROSSING EXISTING ROADWAYS OUTSIDE OF THE CLOSED LANES SHALL BE PATCHED OR PLATED AT THE END OF THE WORK DAY.
17. SEE SPECIFICATIONS FOR GRANULAR TRENCH BACKFILL AND PAVEMENT PATCHING REQUIREMENTS.
18. THE CONTRACTOR MUST OBTAIN PRIOR APPROVAL FROM THE CITY BEFORE COMPLETING NIGHT WORK ON THE WEEKENDS.
19. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. TEMPORARY CONCRETE BARRIER WALL IS SHOWN ON THE PLANS WHERE THE DROP-OFF REQUIREMENTS FOR USING BARRICADES CANNOT BE MET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFFS ALONG THE REMAINING AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.
20. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR UNTIL NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
21. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL ROAD CLOSURE, TRAFFIC STAGE CHANGES, AND NEW TRAFFIC SIGNAL TURN-ON EVENTS ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGNS SHALL BE REMOVED TWO WEEKS THEREAFTER UNLESS THE SIGNS ARE NEEDED AGAIN FOR A SUBSEQUENT FUTURE EVENT THAT WILL OCCUR WITHIN TWO (2) WEEKS ON THE SAME APPROACH OF THE AFFECTED ROADWAY. THE SIGN LOCATIONS SHALL BE (DETERMINED BY THE ENGINEER) PLACED AS DIRECTED BY THE ENGINEER.

SEQUENCE OF CONSTRUCTION NOTES

1. SEE CONSTRUCTION PHASING INFORMATION AND EXHIBIT FOUND IN SECTION 01 31 13.16 PROJECT COORDINATION AND CONSTRUCTION PHASING OF THE PROJECT MANUAL FOR SPECIFIC GUIDANCE ON WORK AREA BREAKDOWN AND CONSTRUCTION SEQUENCING.

IDOT STANDARD DRAWINGS

- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-09 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS

IDOT DISTRICT ONE STANDARDS

- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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CITY OF JOLIET CONTRACT NO. 2859-0125

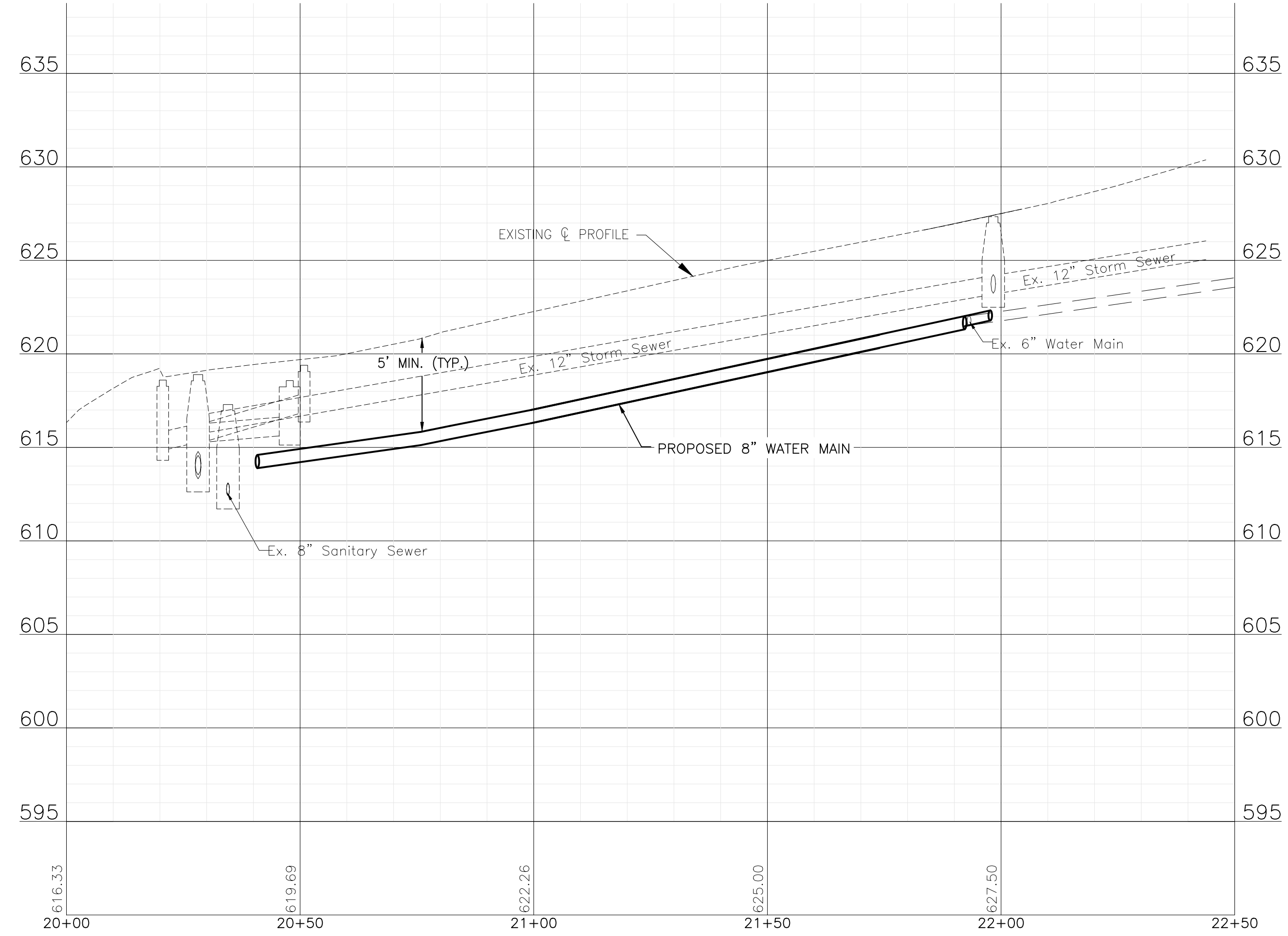
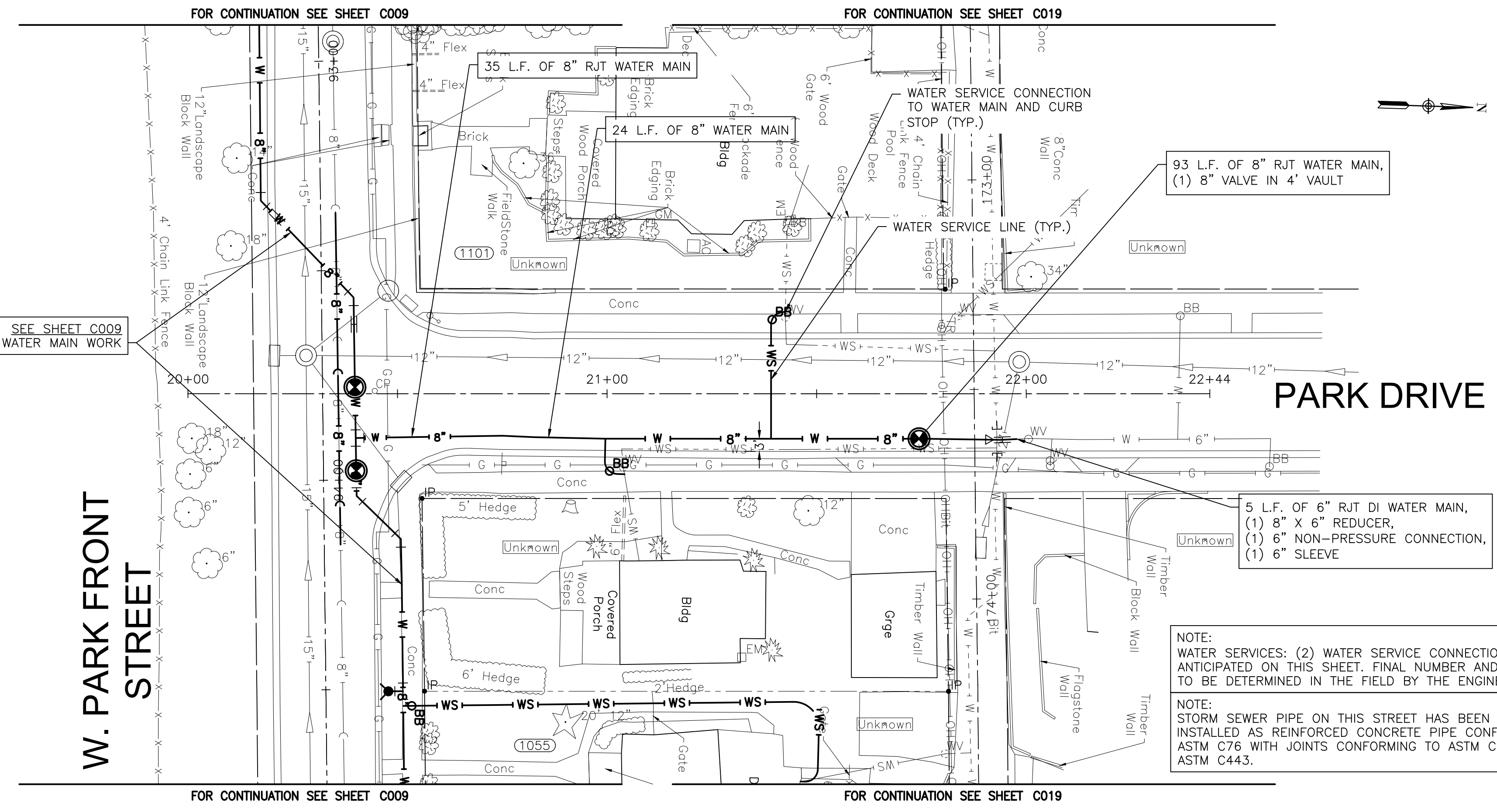
MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION,
NOTES, AND STANDARDS

SCALE: AS NOTED PROJECT NO: 2325880

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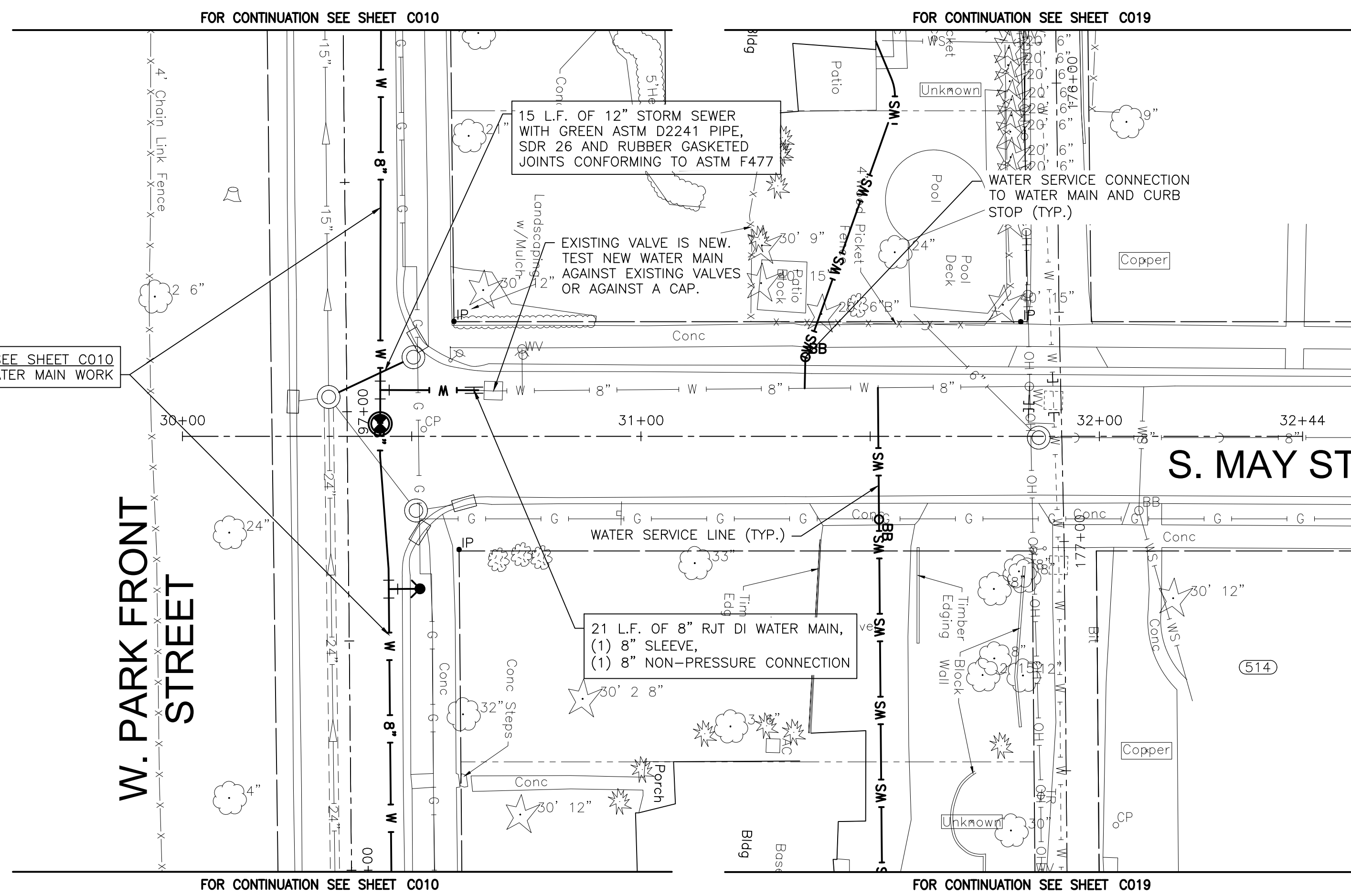
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CITY OF JOLIET CONTRACT NO. 2859-0125

PARK DRIVE STA 20+00 TO STA 22+44 PLAN AND PROFILE	
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 2325880

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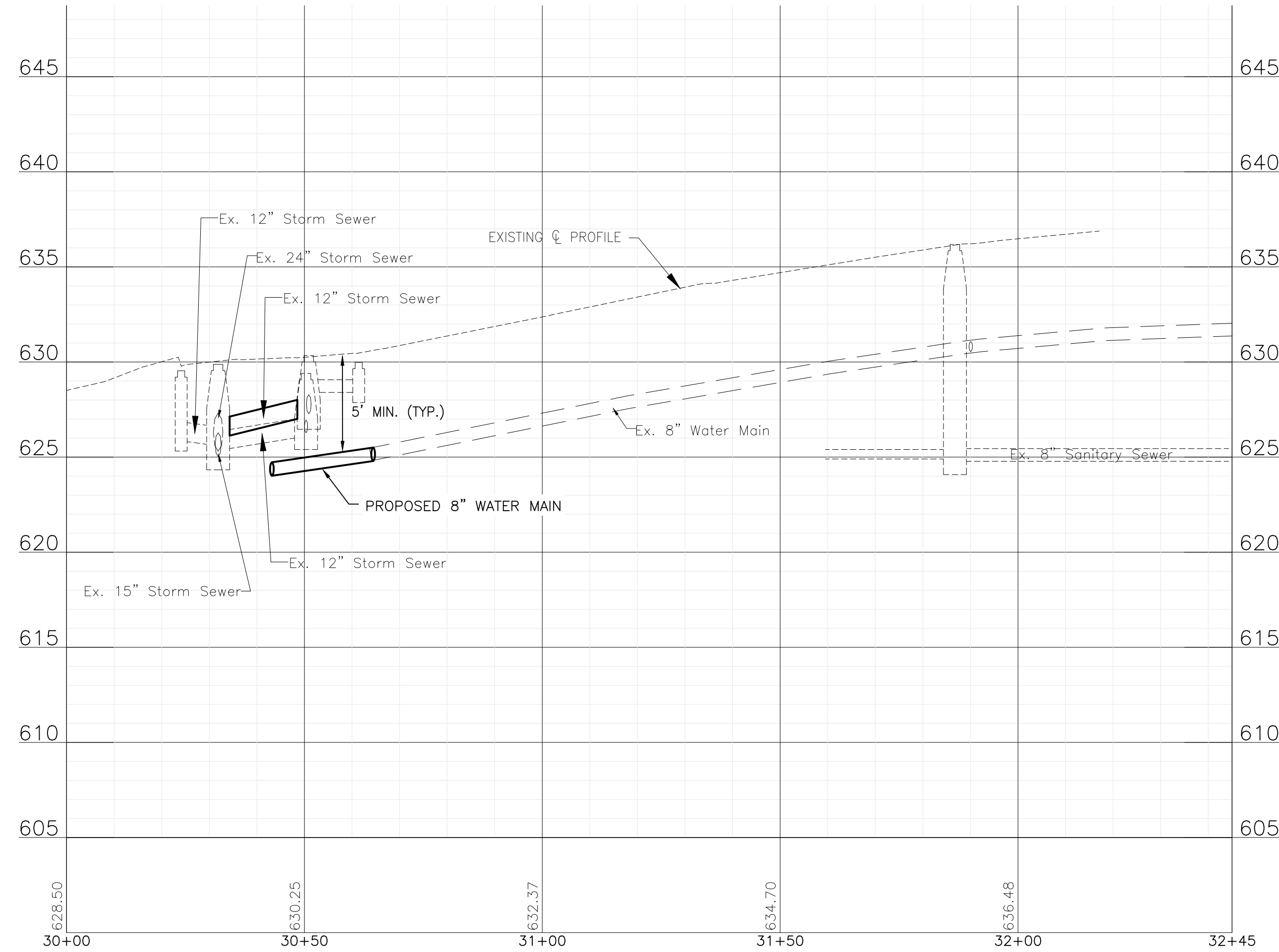
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NOTE:
 WATER SERVICES: (2) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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 CITY OF JOLIET CONTRACT NO. 2859-0125**

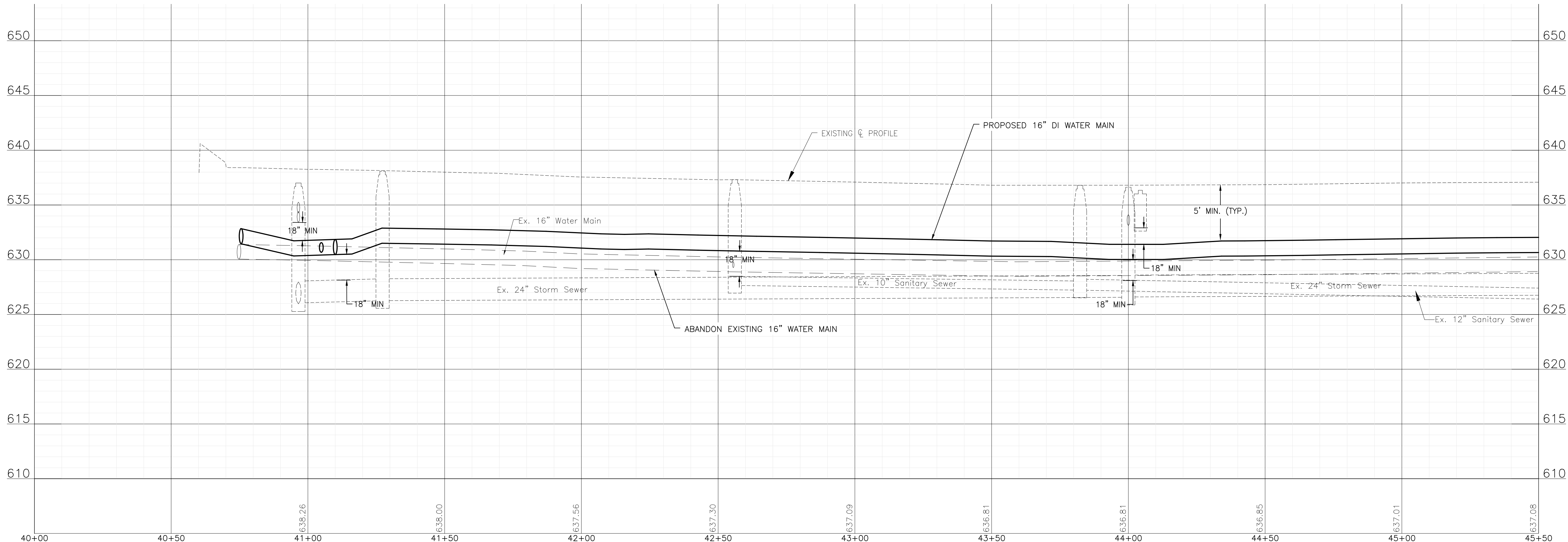
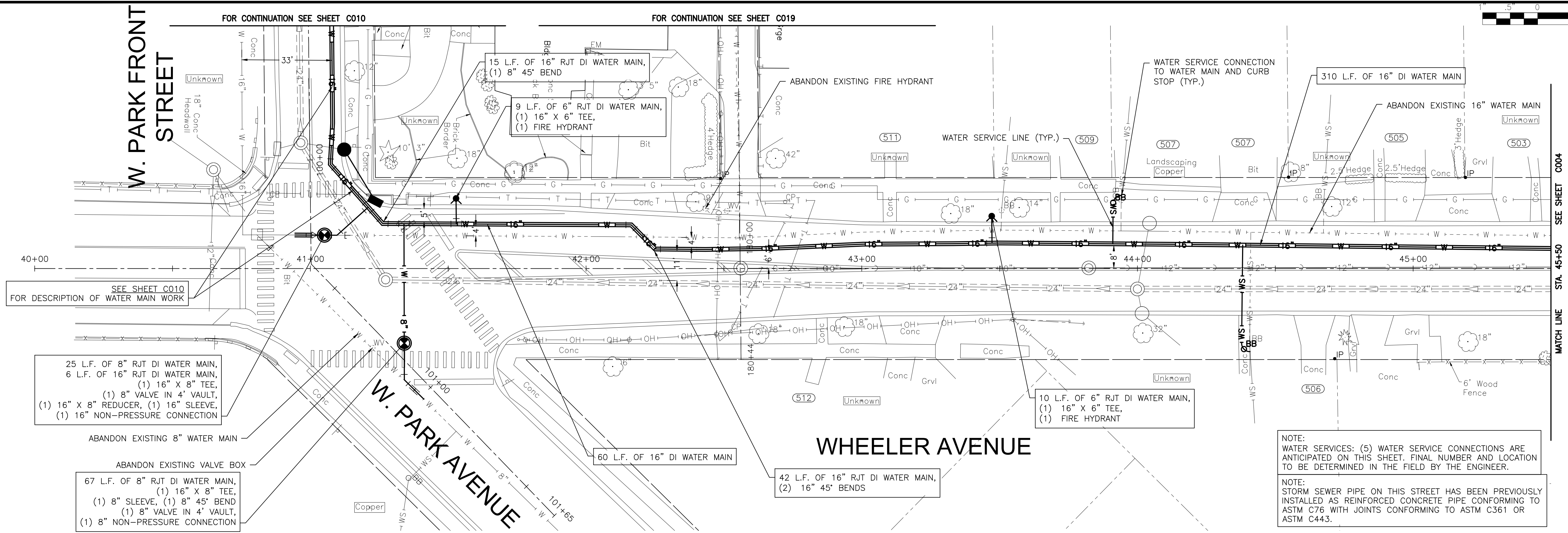
SOUTH MAY STREET STA 30+00 TO STA 32+44 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

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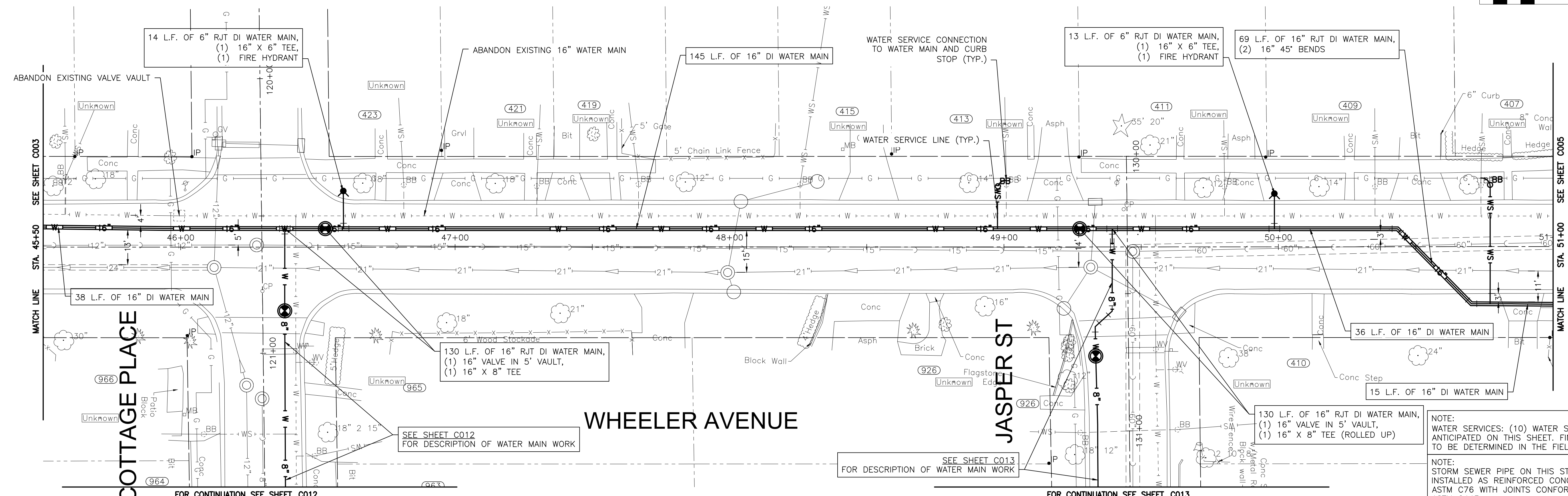
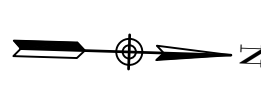
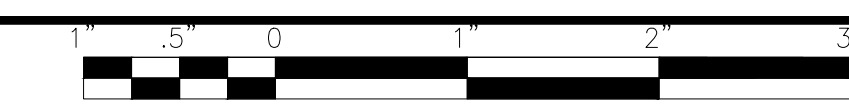
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WHEELER AVENUE STA 40+00 TO 45+50 PLAN AND PROFILE

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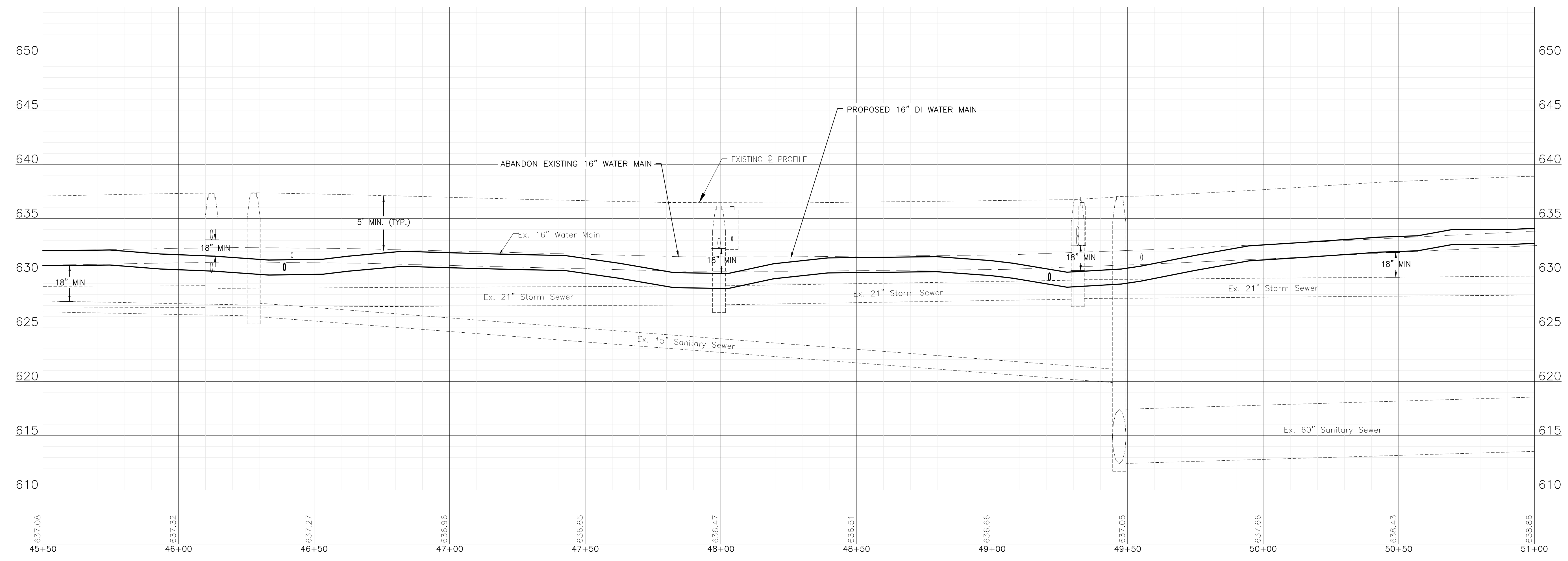
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NOTE:
 WATER SERVICES: (10) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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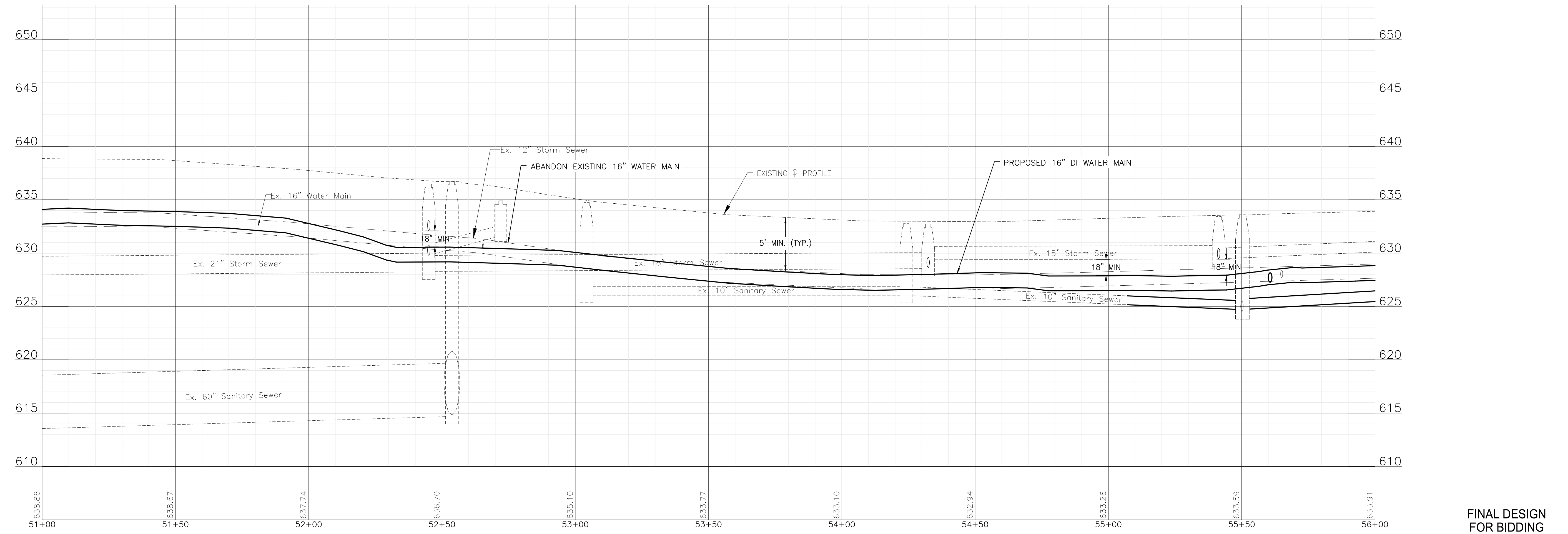
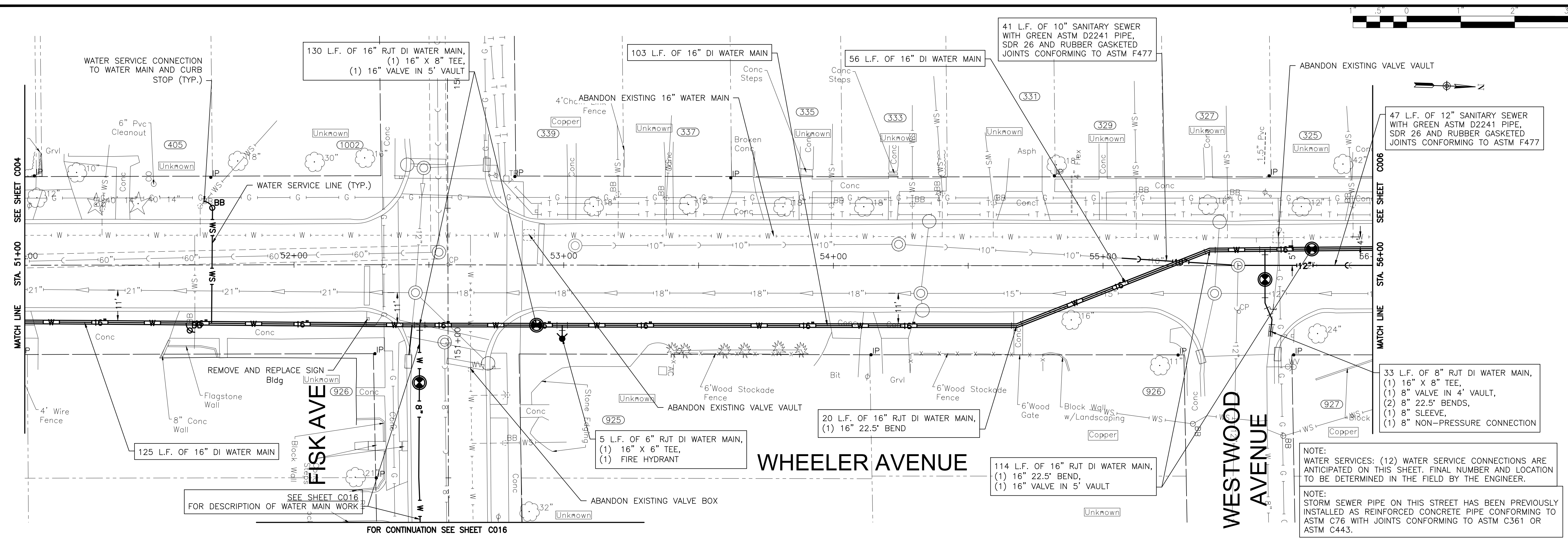


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CITY OF JOLIET CONTRACT NO. 2859-0125

WHEELER AVENUE STA 45+50 TO STA 51+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

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CITY OF JOLIET CONTRACT NO. 2859-0125

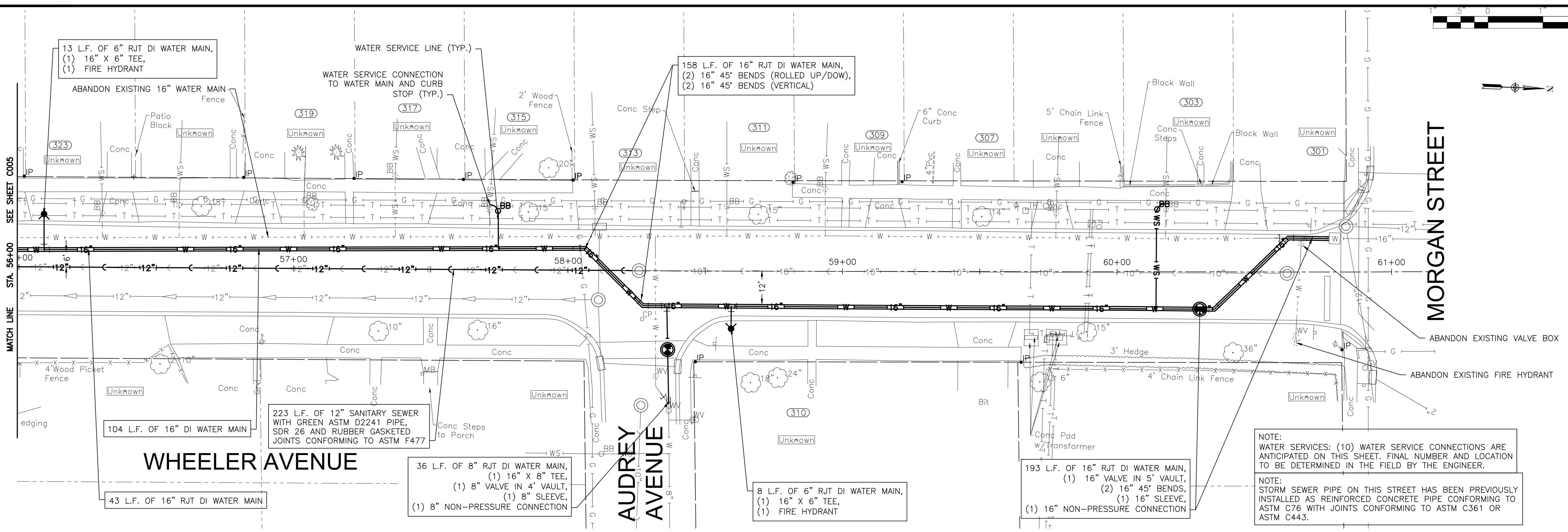
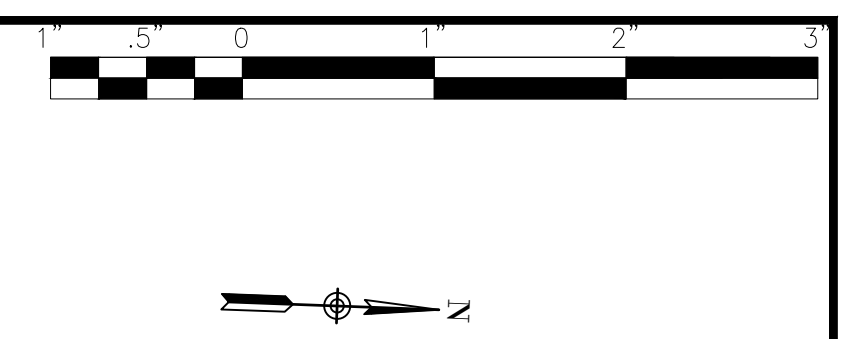
WHEELER AVENUE STA 51+00 TO STA 56+00 PLAN AND PROFILE

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

PROJECT NO: 2325880

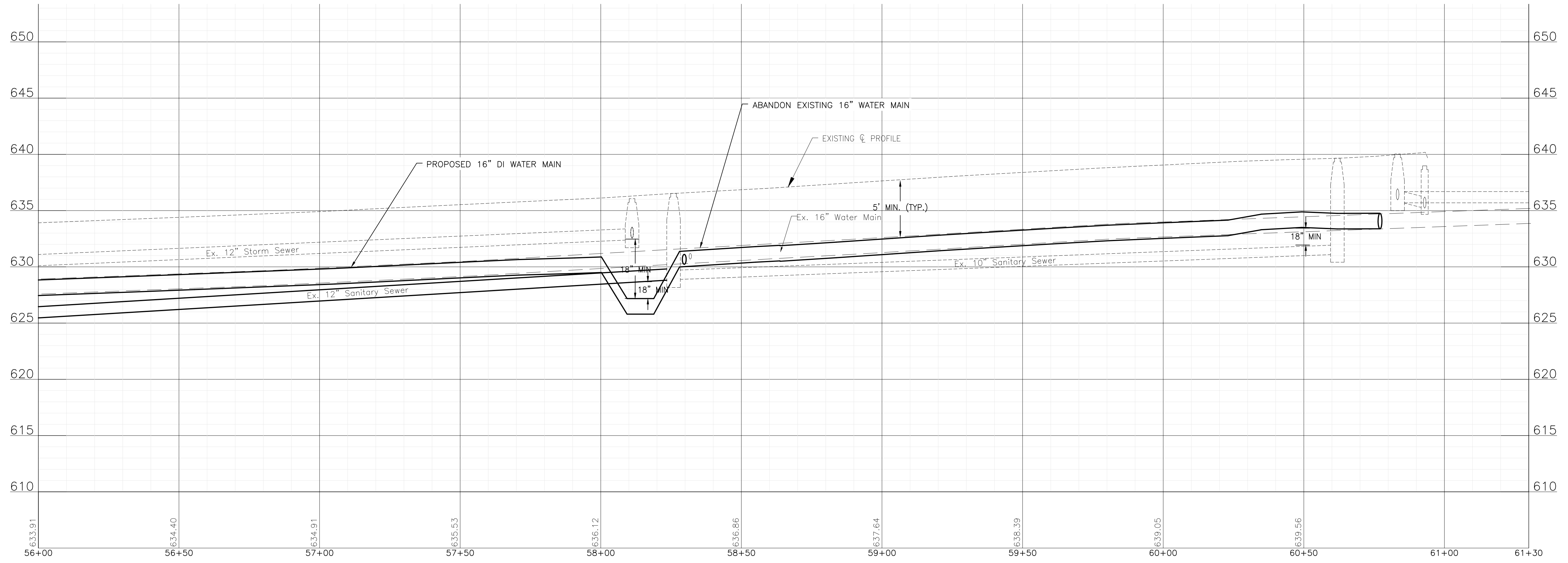
DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C005
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN
FOR BIDDING



NOTE:
WATER SERVICES: (10) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



FINAL DESIGN FOR BIDDING

P:\JOL\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REEDWOOD PH3 -DESIGN_SHEETS.DWG 56+00.00
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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

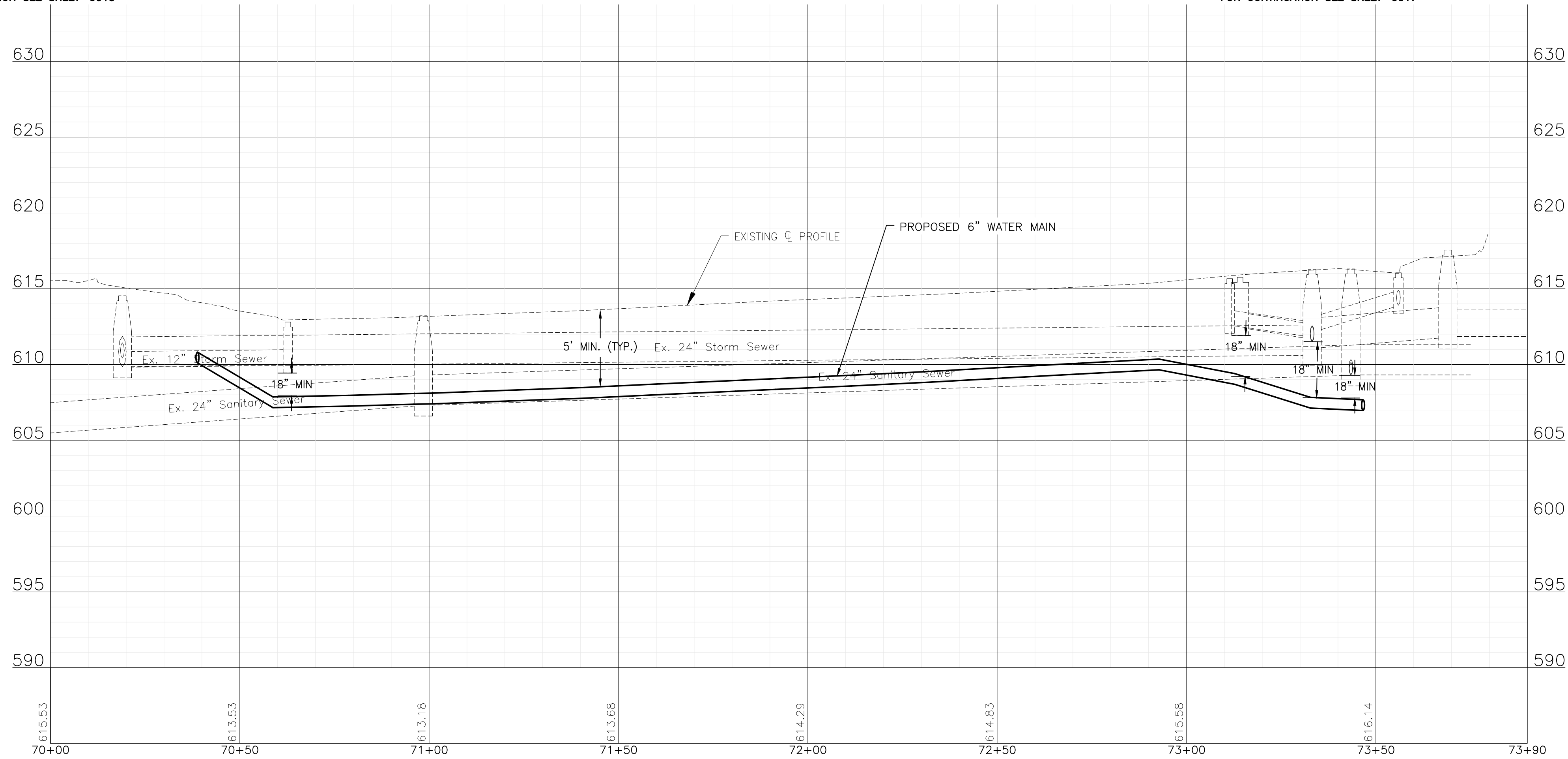
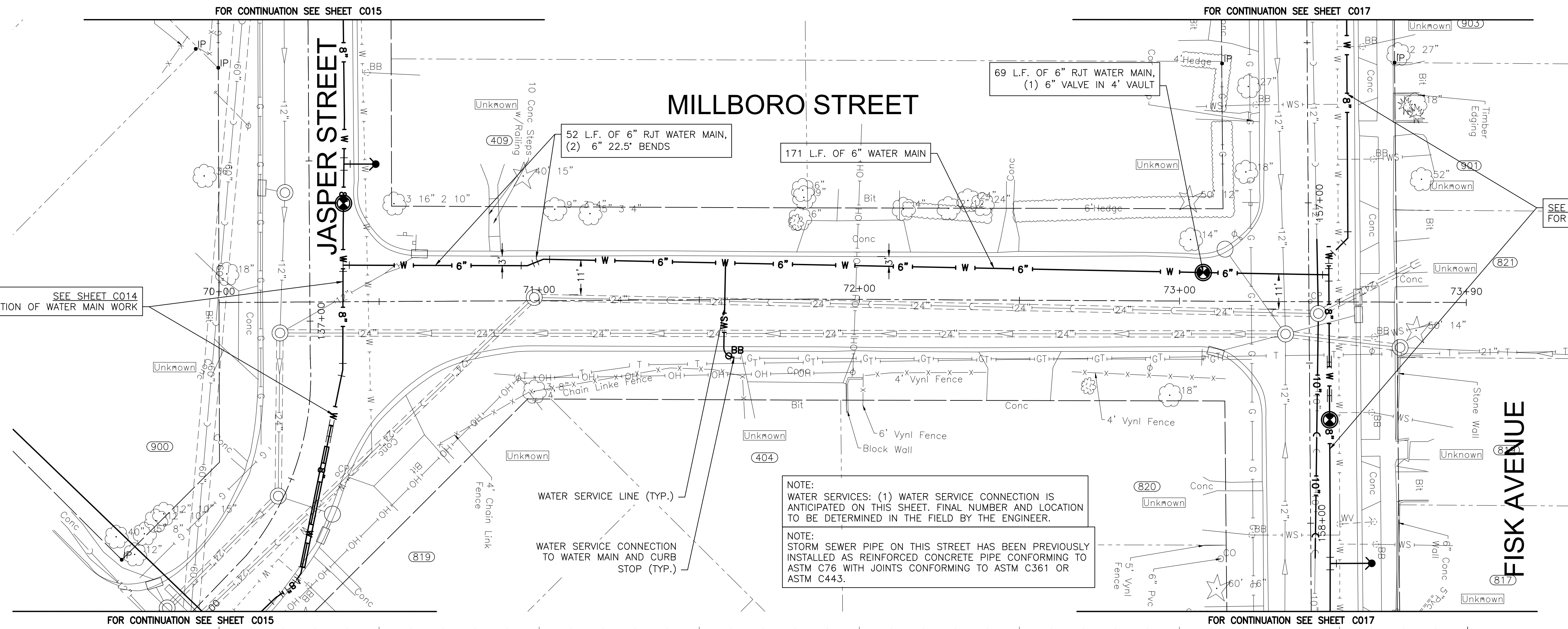
WHEELER AVENUE STA 56+00 TO STA 61+00 PLAN AND PROFILE

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

PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C006
CHECKED - PMK		
DATE - 10/24/2024		

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	REVISED -

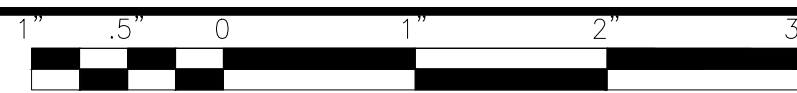
CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

MILLBORO STREET STA 70+00 TO STA 73+90 PLAN AND PROFILE

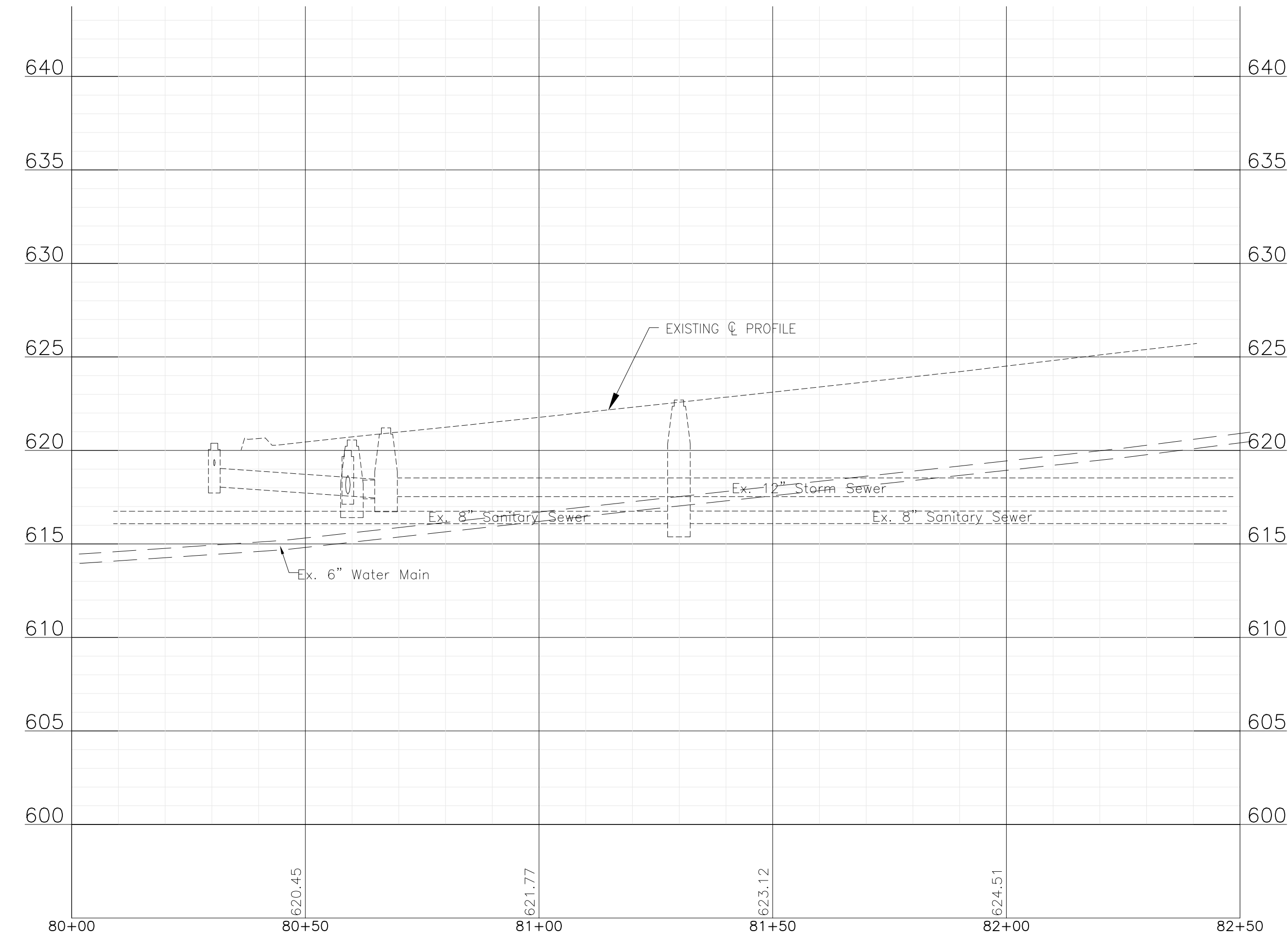
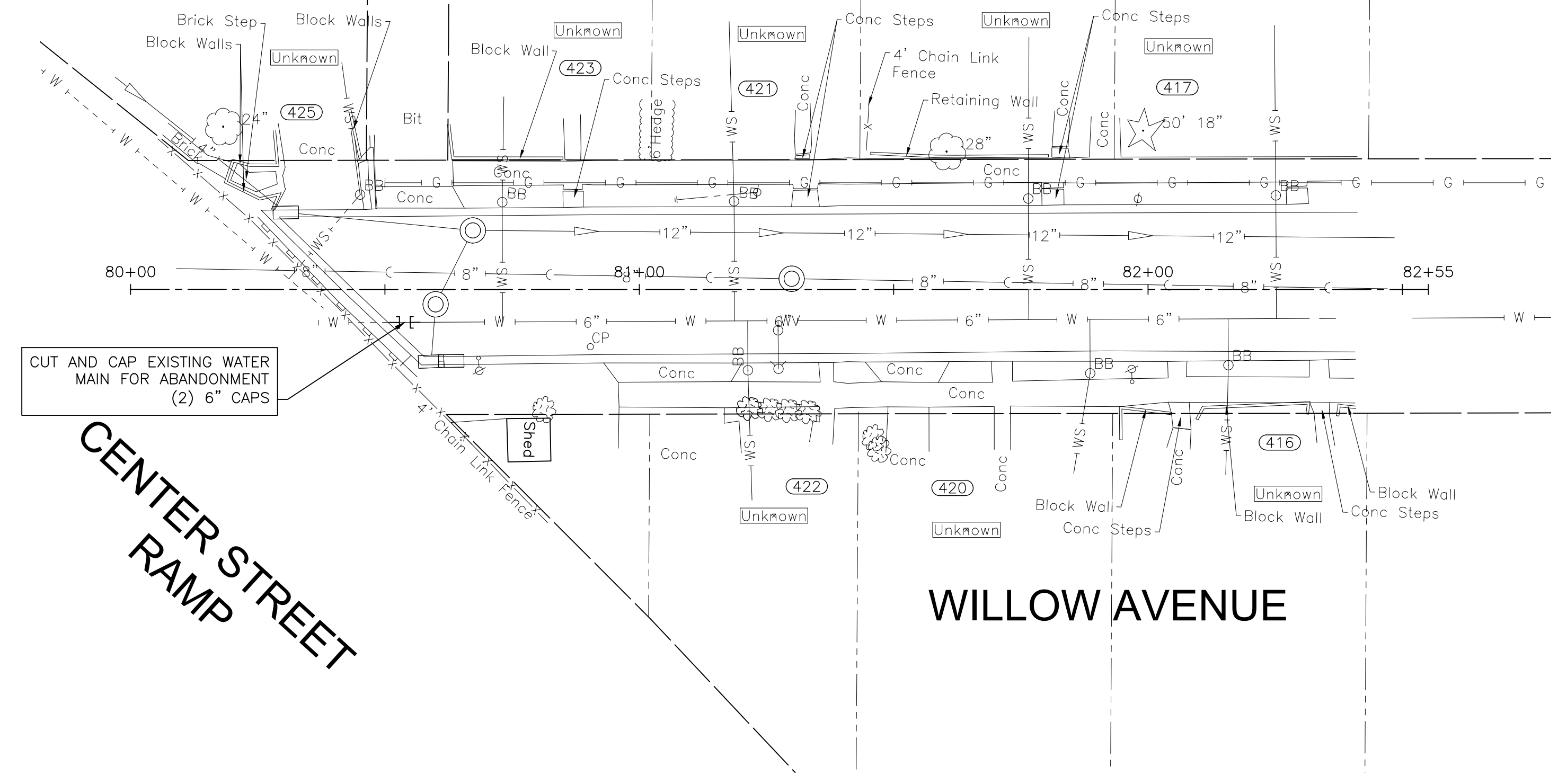
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C007
CHECKED - PMK		
DATE - 10/24/2024		



NOTE:
WATER MAIN ON THIS SHEET WILL BE REPLACED
IN THE FUTURE ST. PAT'S PHASE 2 PROJECT.



P:\JOL\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REEDWOOD PH3 -DESIGN_SHEETS.DWG 80+00.00
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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

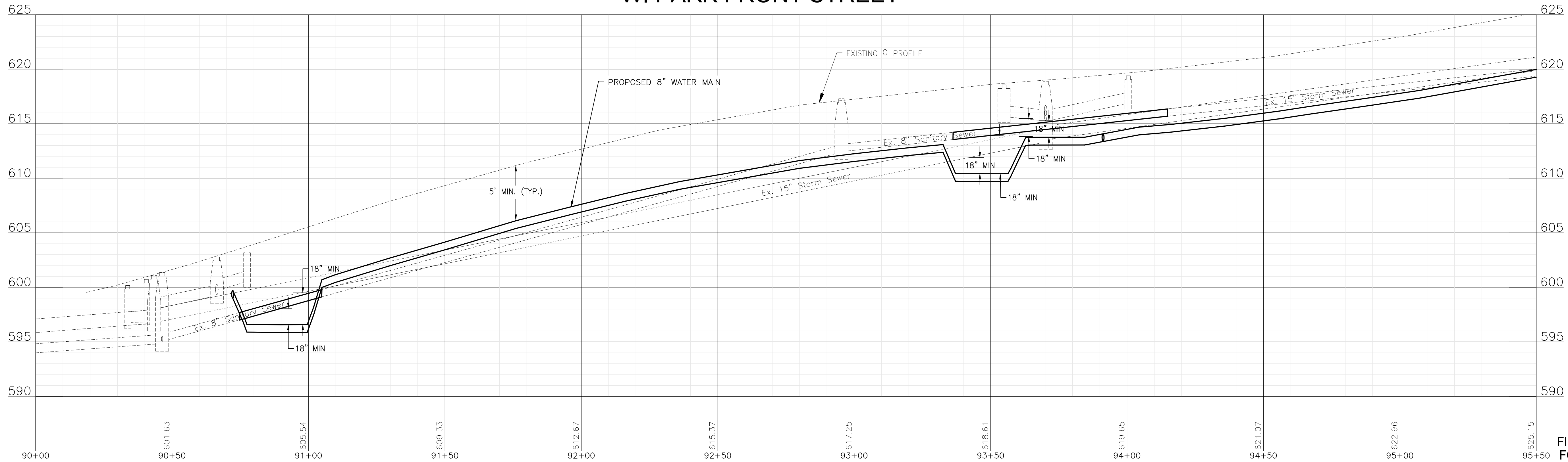
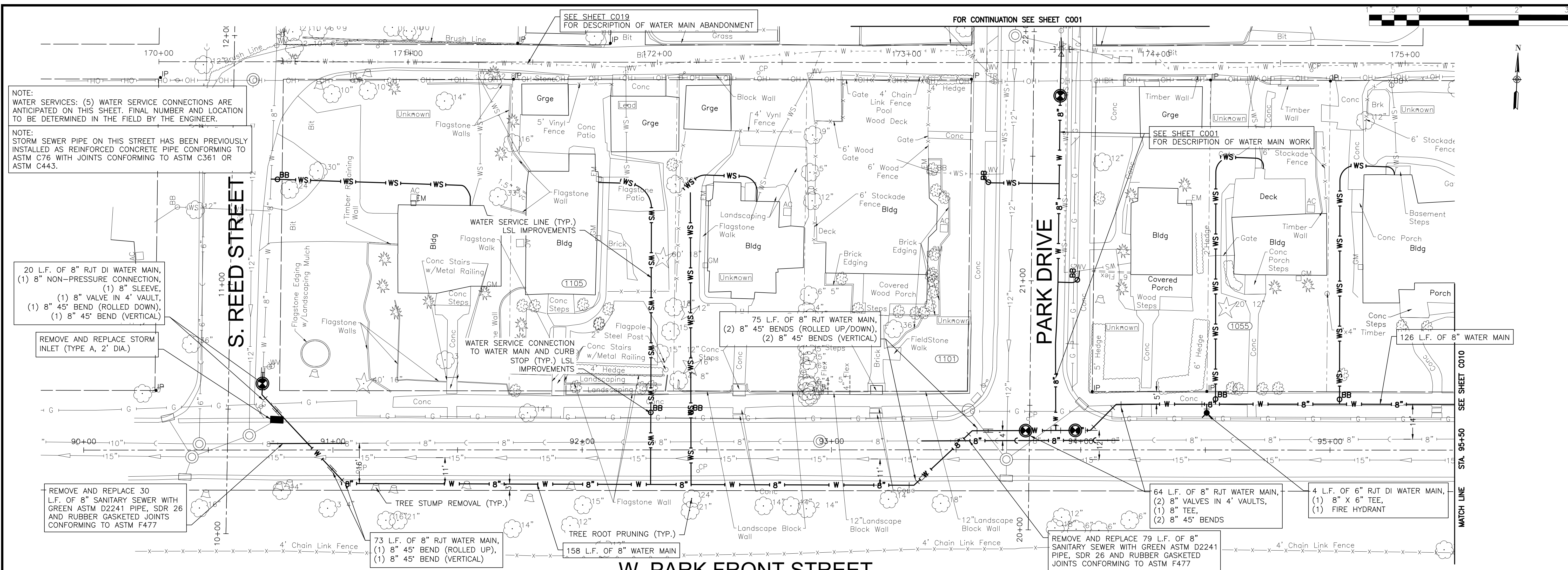
WILLOW AVENUE STA 80+00 TO STA 82+50 PLAN AND PROFILE

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

PROJECT NO: 2325880

FINAL DESIGN
FOR BIDDING

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C008
CHECKED - PMK		
DATE - 10/24/2024		



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	REVISED -

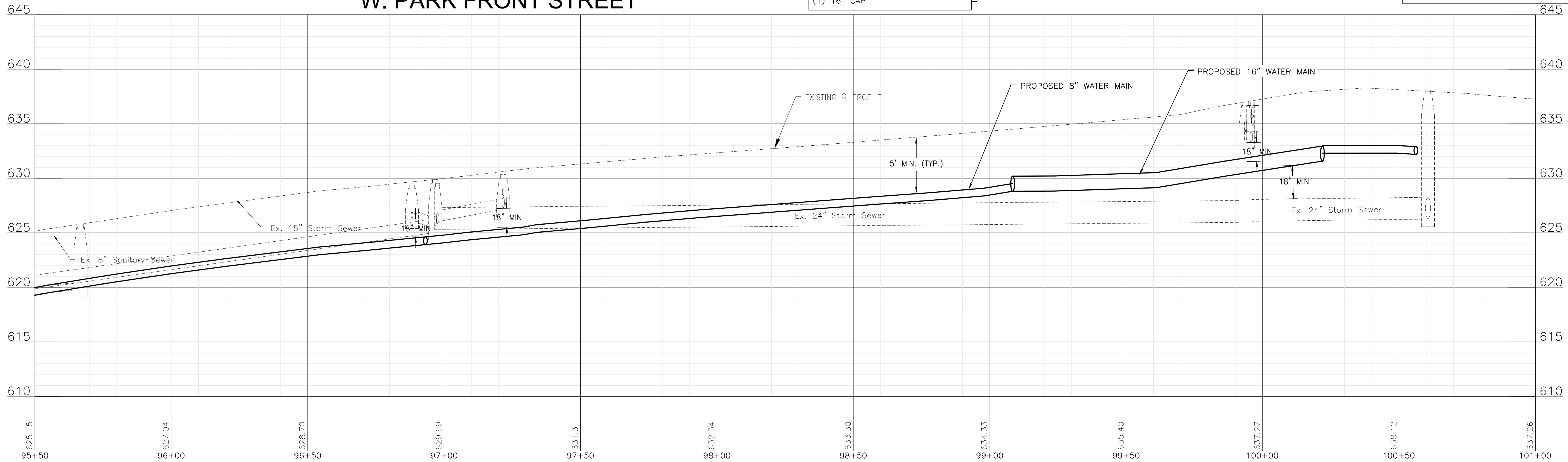
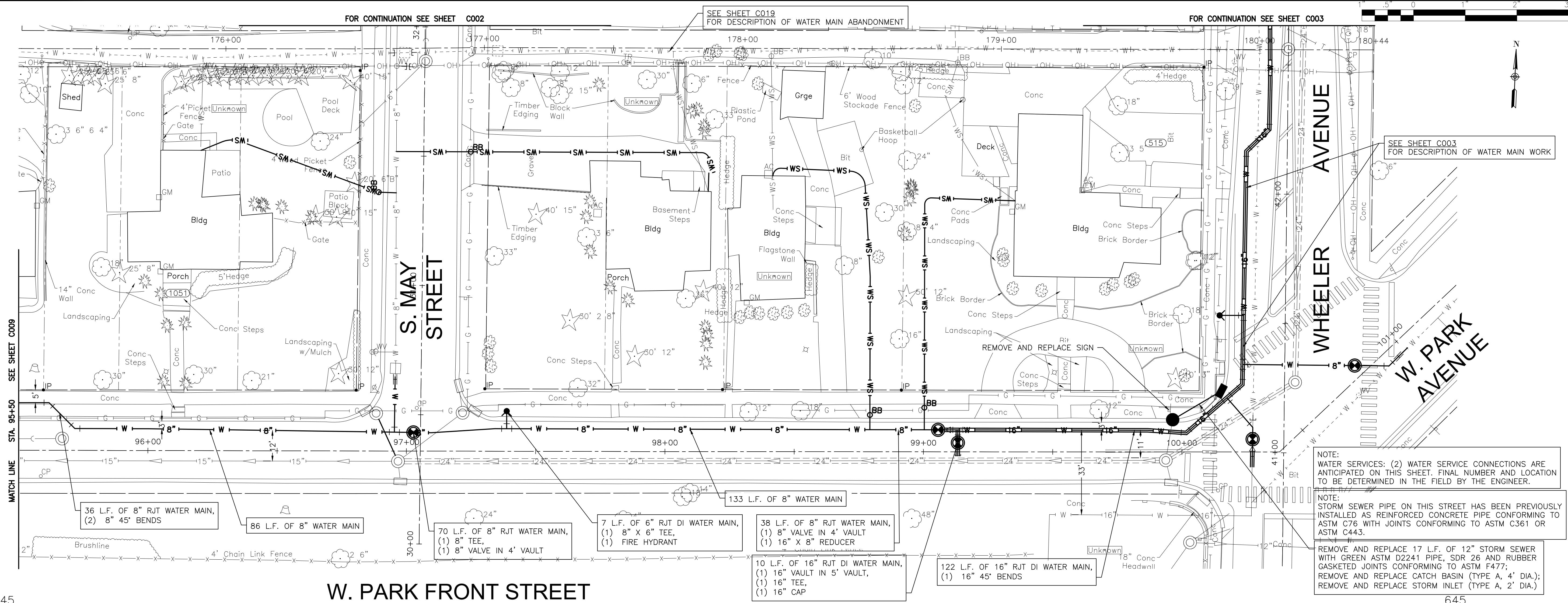
CITY OF JOLIET, ILLINOIS
 REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2859-0125

PARK FRONT STREET STA 90+00 TO STA 95+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C009
CHECKED - PMK		
DATE - 10/24/2024		

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NOTE:
 WATER SERVICES: (2) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

REMOVE AND REPLACE 17 L.F. OF 12" STORM SEWER WITH GREEN ASTM D2241 PIPE, SDR 26 AND RUBBER GASKETED JOINTS CONFORMING TO ASTM F477;
 REMOVE AND REPLACE CATCH BASIN (TYPE A, 4' DIA.);
 REMOVE AND REPLACE STORM INLET (TYPE A, 2' DIA.)

W. PARK FRONT STREET

CITY OF JOLIET, ILLINOIS
 REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2859-0125

PARK FRONT STREET STA 95+50 TO STA 101+00 PLAN AND PROFILE

FINAL DESIGN
 FOR BIDDING



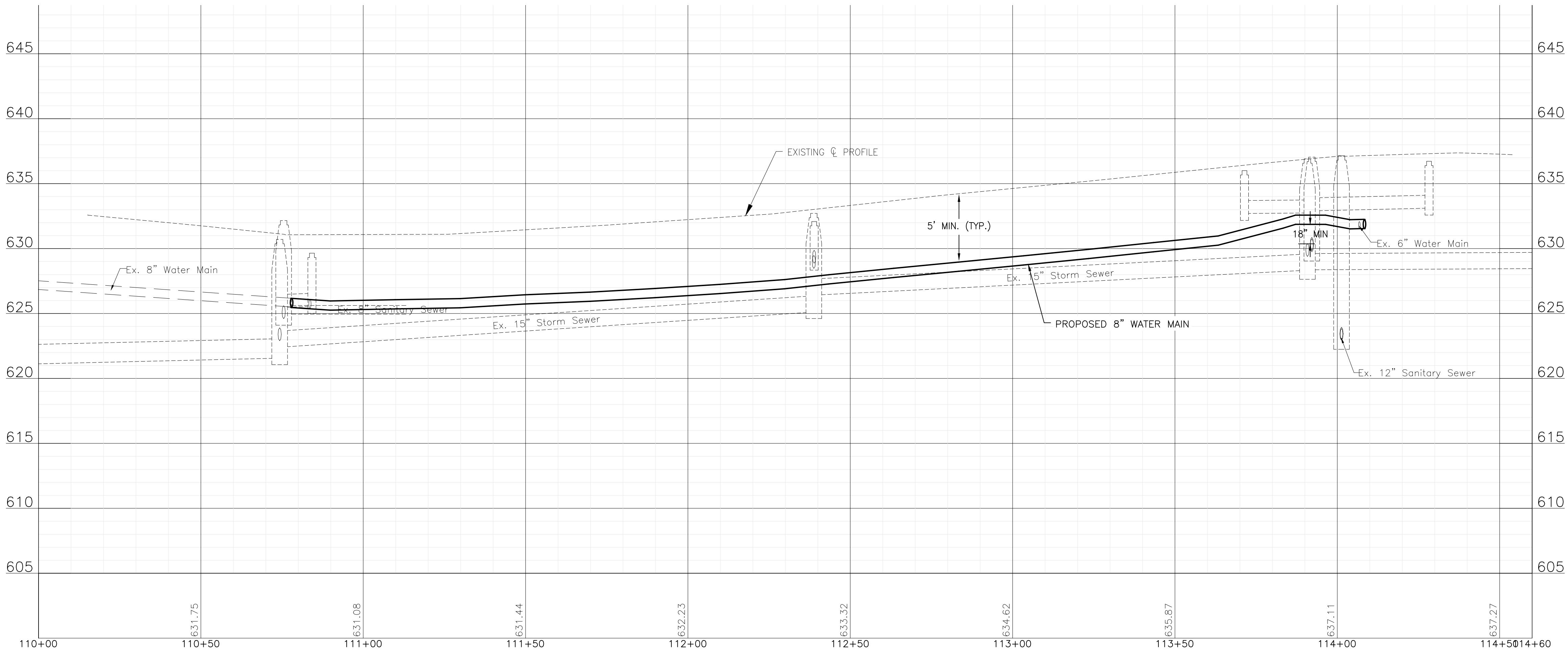
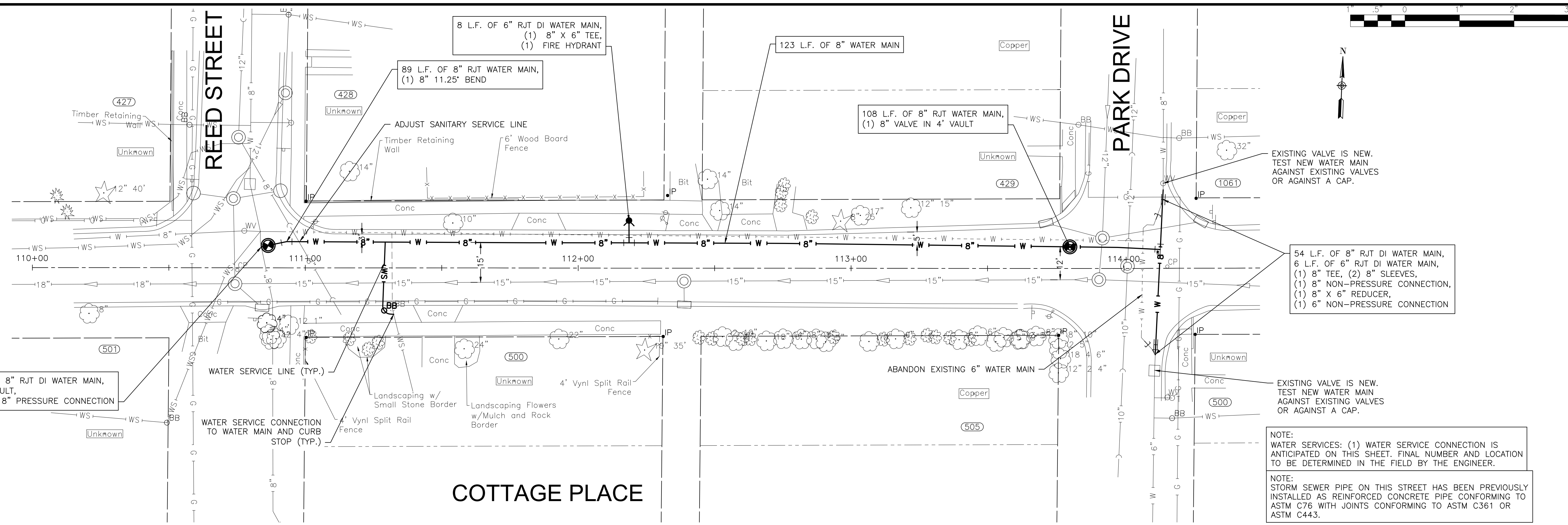
CONSULTANTS	REVISED -
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	REVISED -
	REVISED -

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

PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C010
CHECKED - PMK		
DATE - 10/24/2024		

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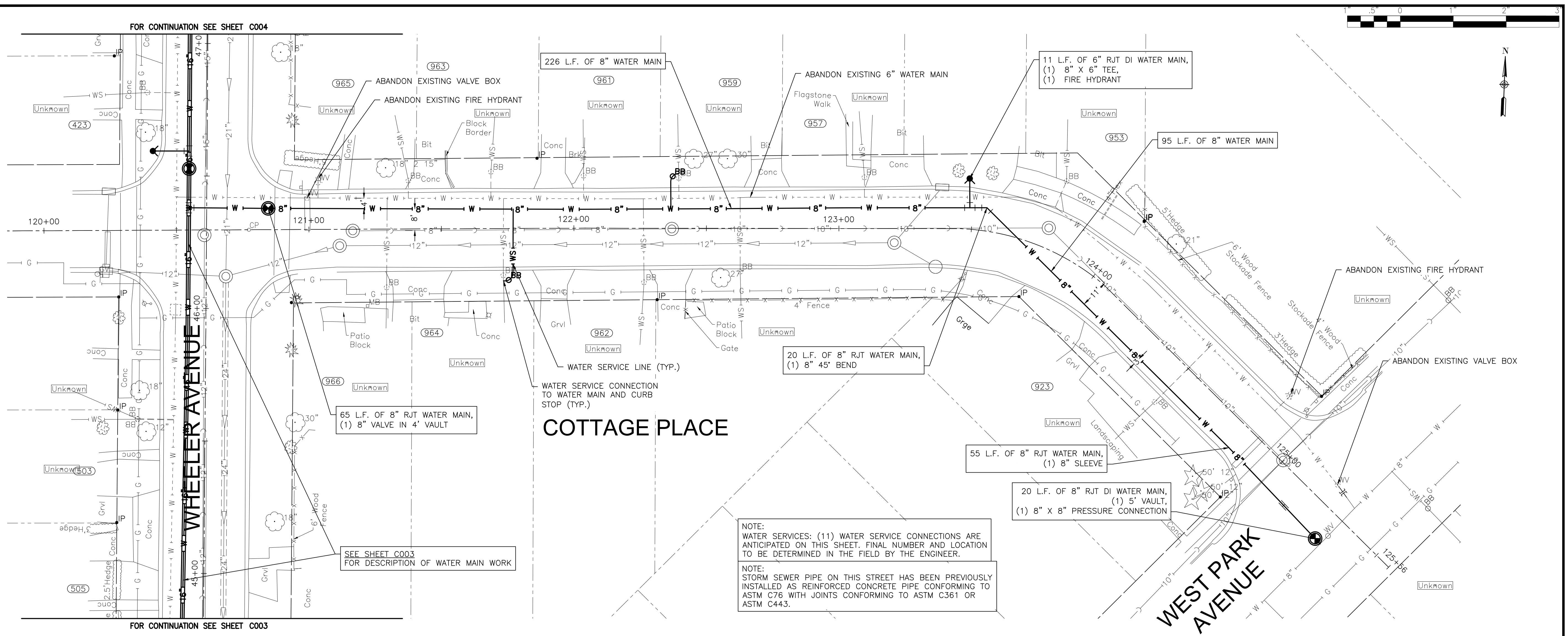
**CITY OF JOLIET, ILLINOIS
 REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2859-0125**

COTTAGE PLACE STA 110+00 TO STA 114+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

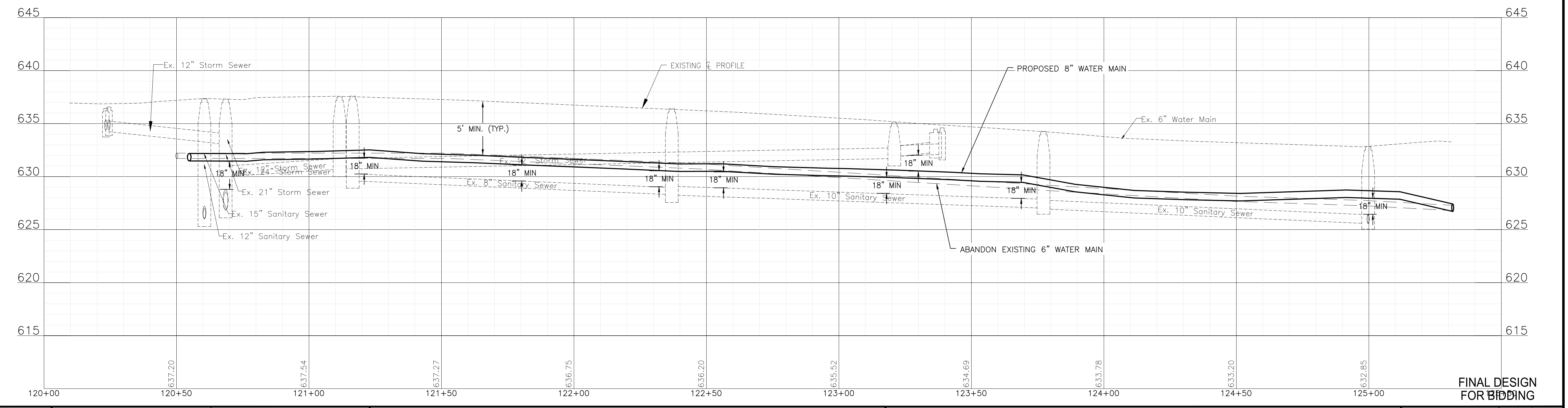
DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C011
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN
FOR BIDDING



NOTE:
 WATER SERVICES: (11) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



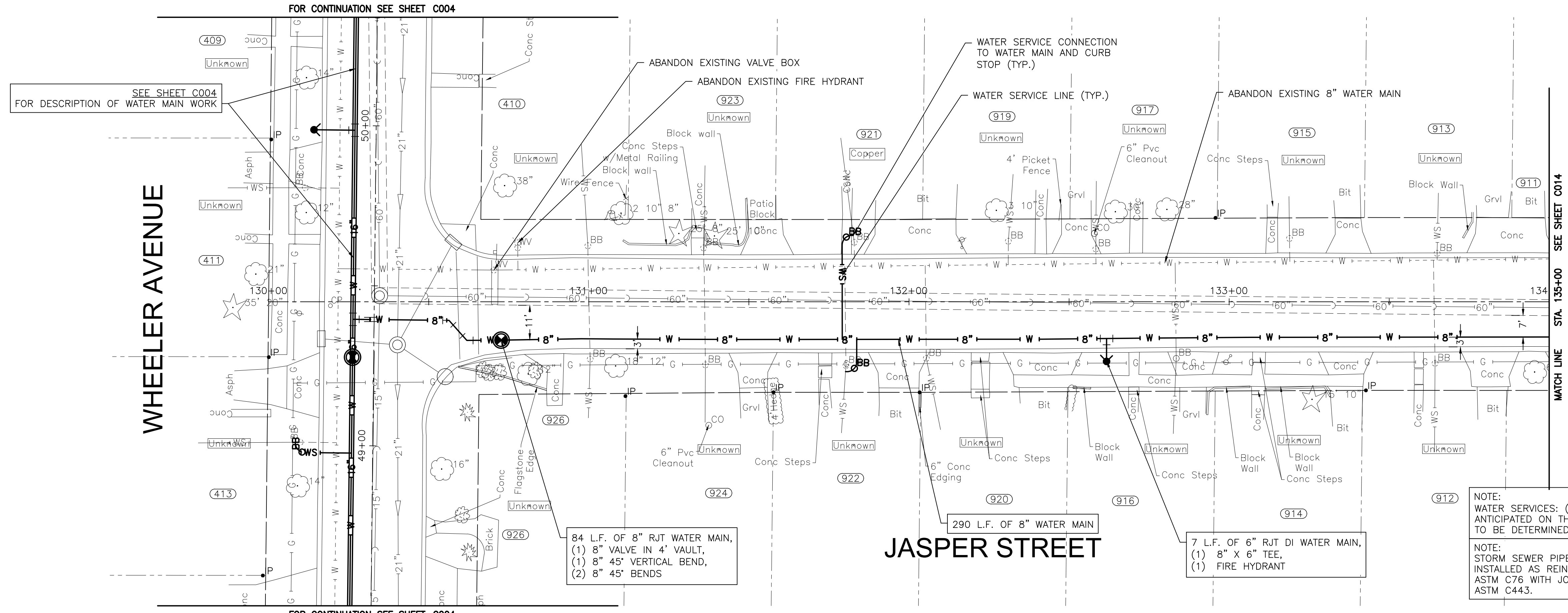
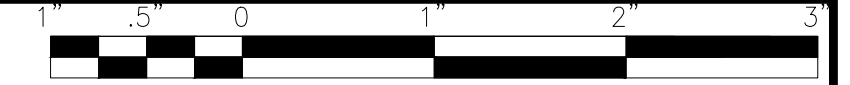
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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

COTTAGE PLACE STA 120+00 TO STA 125+56 PLAN AND PROFILE		DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 2325880	DRAWN - ABN	27	C012
	DATE - 10/24/2024	CHECKED - PMK		



SEE SHEET C004 FOR DESCRIPTION OF WATER MAIN WORK

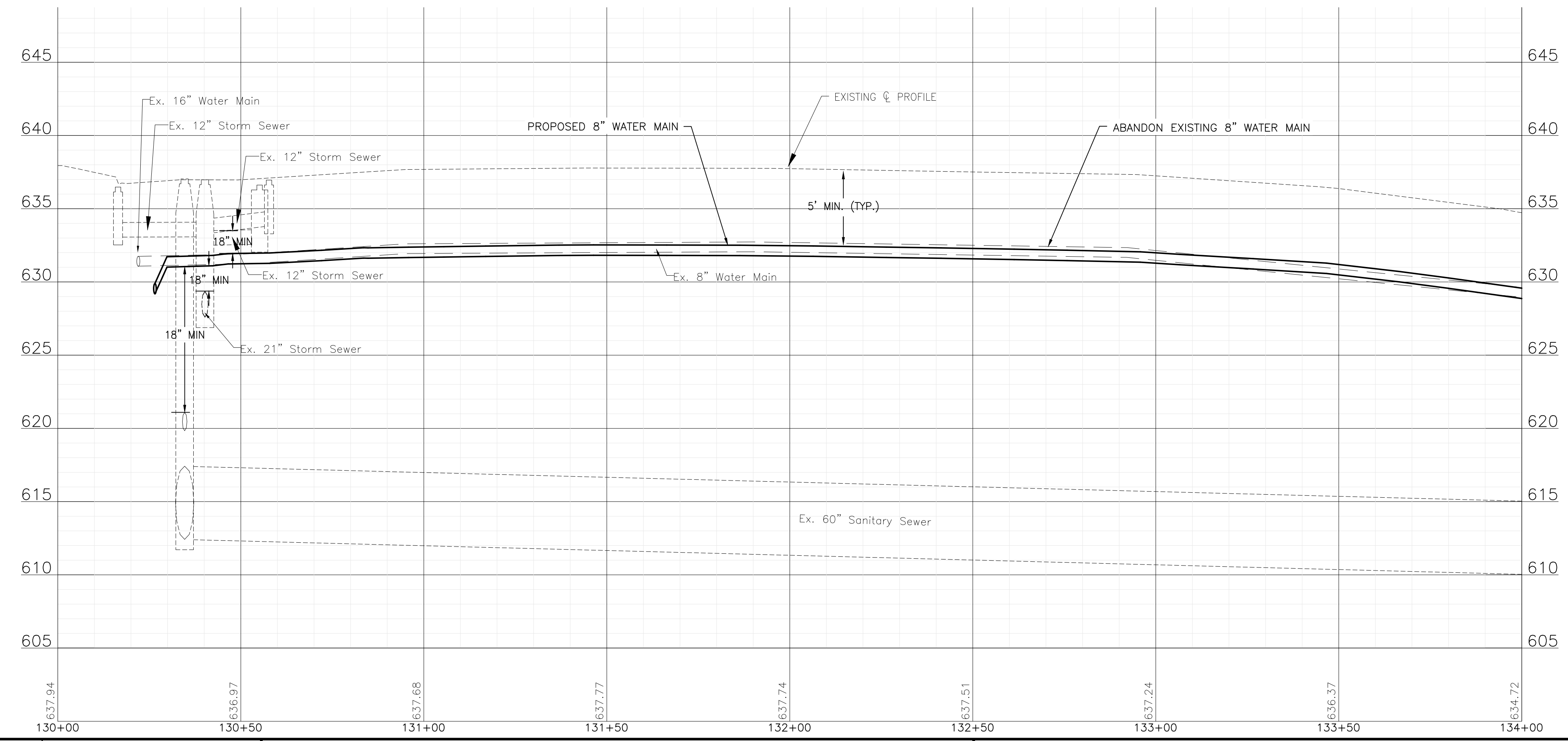
84 L.F. OF 8" RJT WATER MAIN,
 (1) 8" VALVE IN 4' VAULT,
 (1) 8" 45° VERTICAL BEND,
 (2) 8" 45° BENDS

290 L.F. OF 8" WATER MAIN

7 L.F. OF 6" RJT DI WATER MAIN,
 (1) 8" X 6" TEE,
 (1) FIRE HYDRANT

NOTE:
 WATER SERVICES: (14) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



P:\JOL\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REEDWOOD PH3 -DESIGN_SHEETS.DWG 130+00.00
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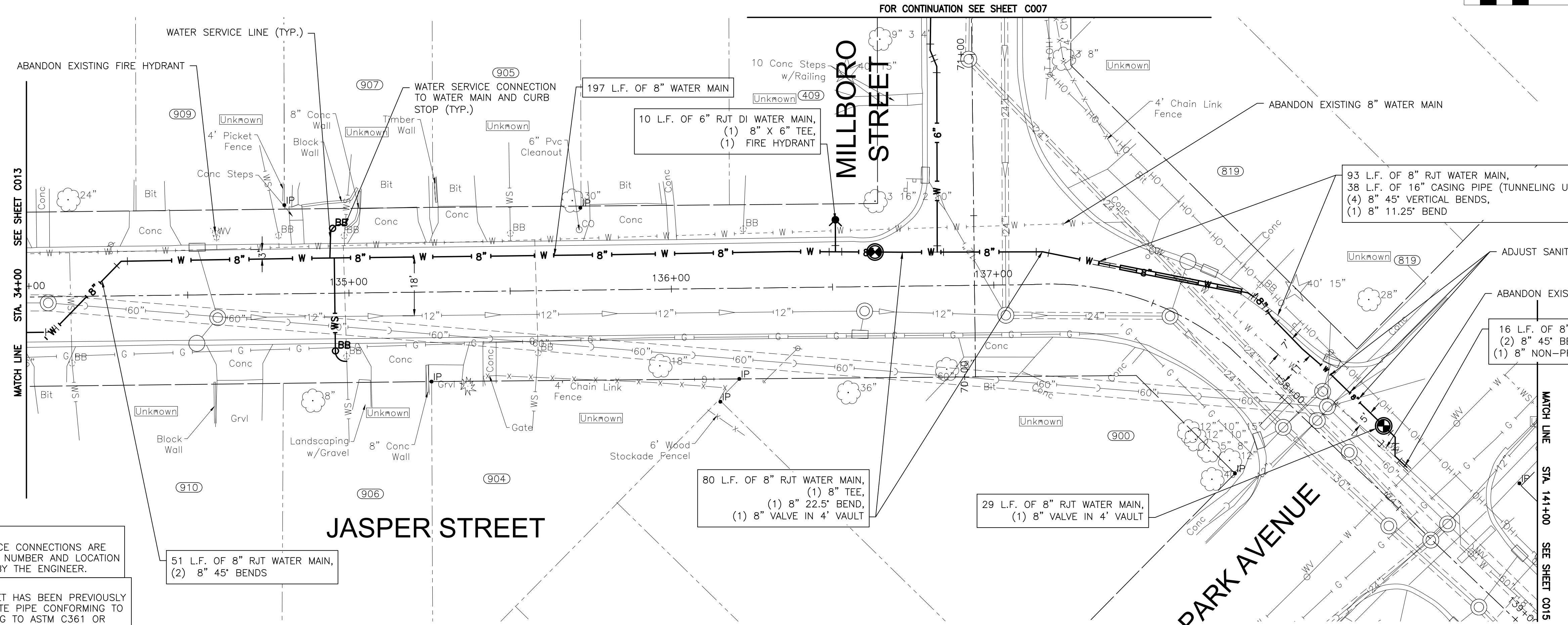
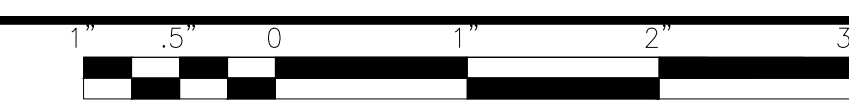
CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

JASPER STREET STA 130+00 TO STA 134+00 PLAN AND PROFILE

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

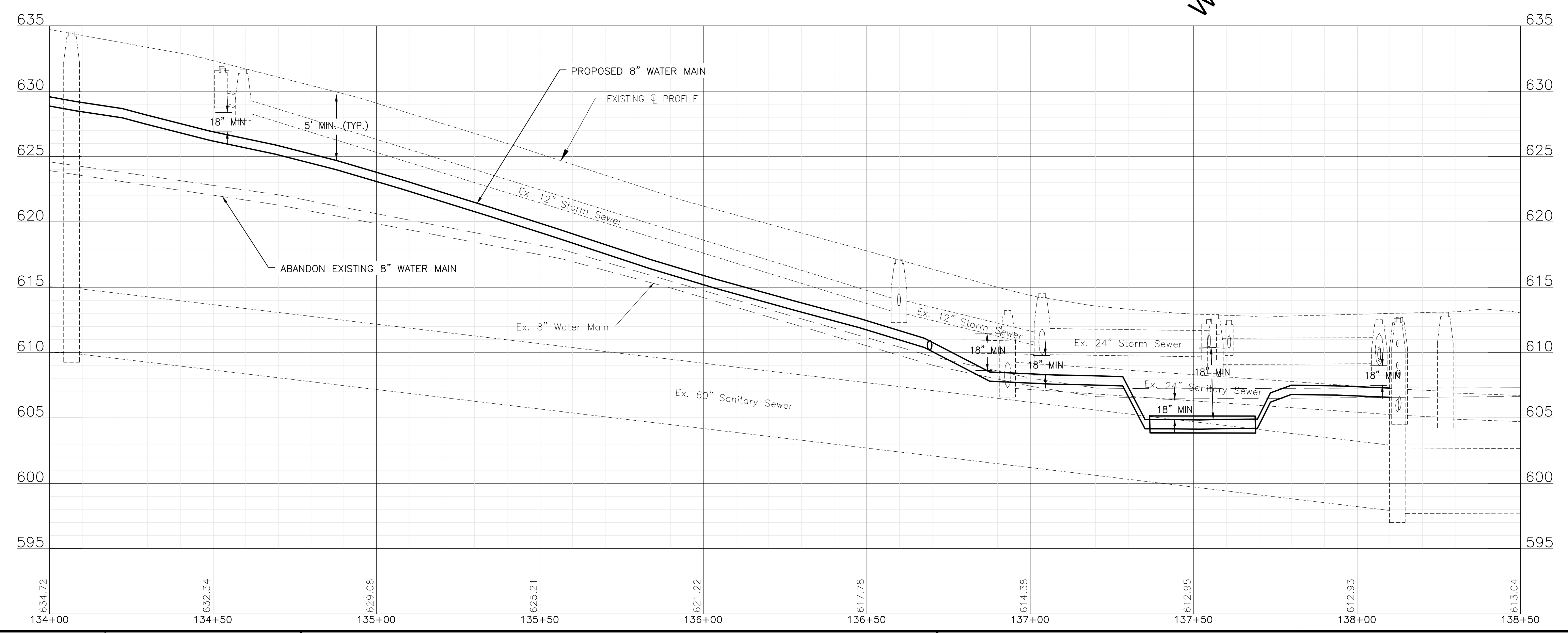
PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C013
CHECKED - PMK		
DATE - 10/24/2024		



NOTE:
WATER SERVICES: (8) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



P:\JOLI\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REEDWOOD PH3 -DESIGN_SHEETS.DWG 134+00.00
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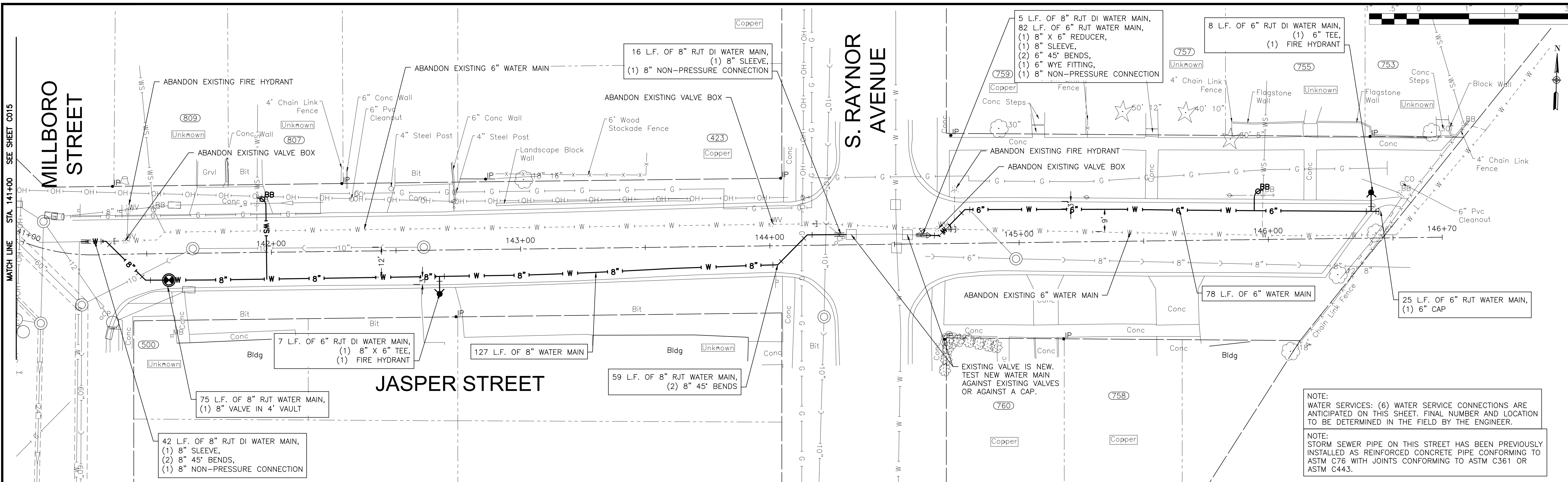
CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

JASPER STREET STA 134+00 TO STA 138+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C014
CHECKED - PMK		
DATE - 10/24/2024		

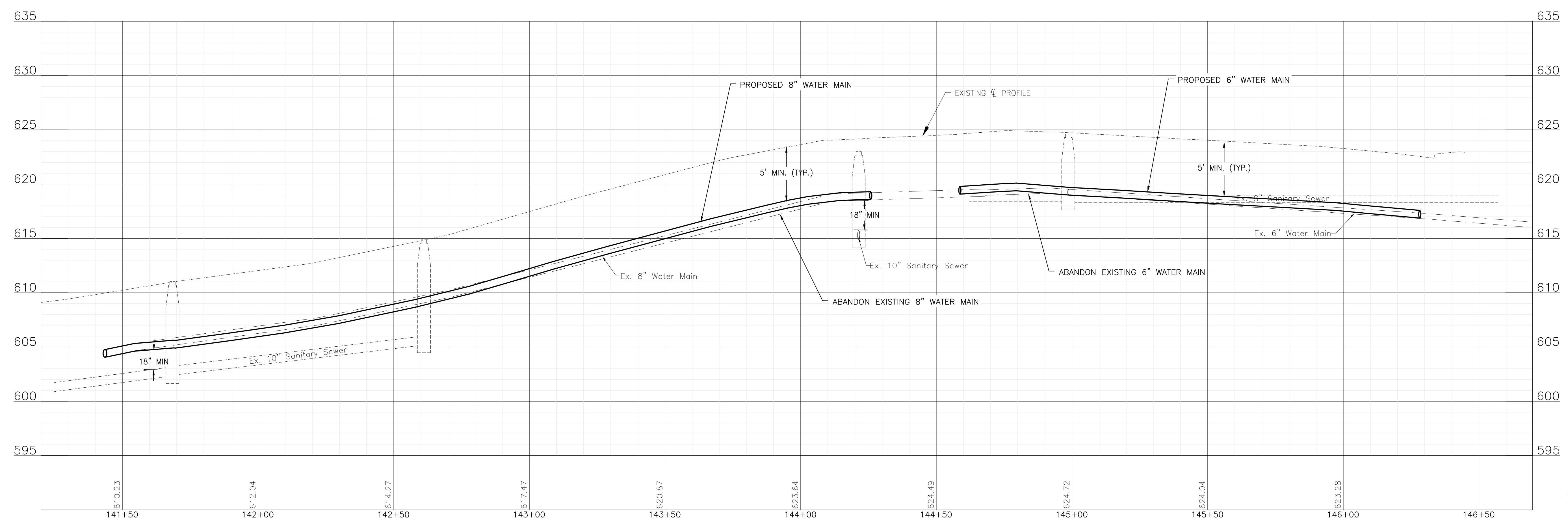
FINAL DESIGN FOR BIDDING

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

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

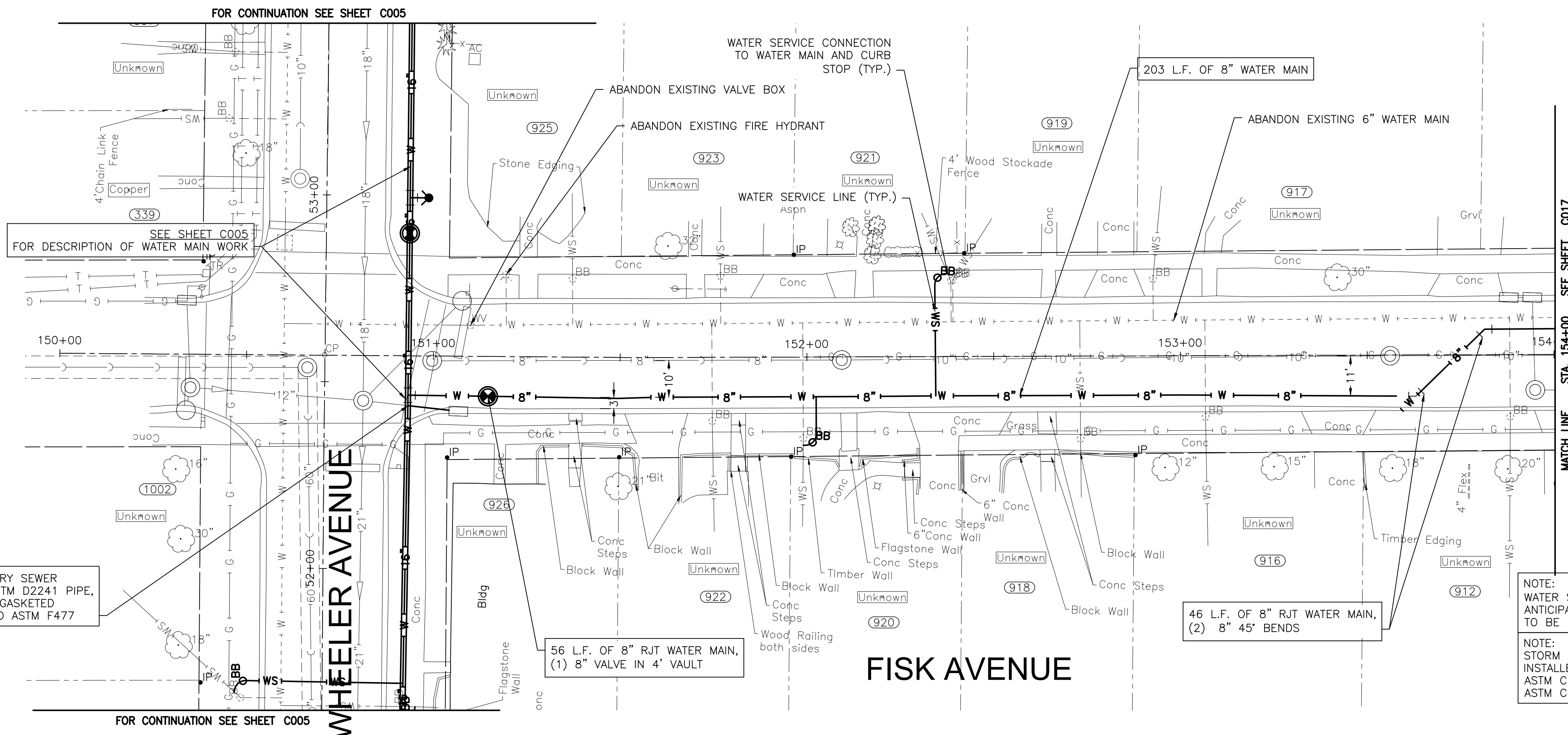


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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

JASPER STREET STA 141+00 TO STA 146+70 PLAN AND PROFILE		DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
SCALE: HORIZ 1"=20' / VERT 1"=5'		DRAWN - ABN	27	C015
PROJECT NO: 2325880		CHECKED - PMK		
DATE - 10/24/2024				

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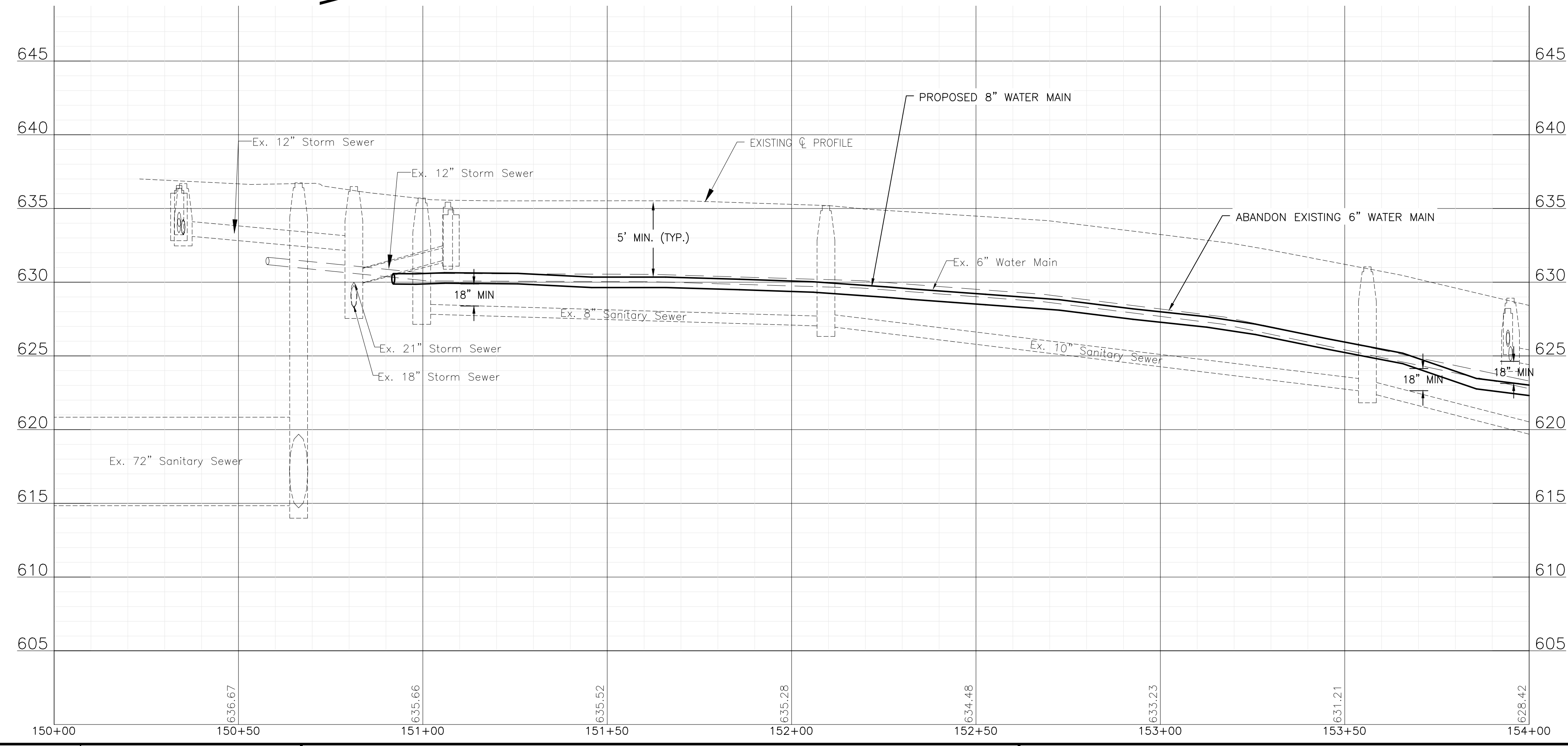
11 L.F. OF 10" SANITARY SEWER SEWER WITH GREEN ASTM D2241 PIPE, SDR 26 AND RUBBER GASKETED JOINTS CONFORMING TO ASTM F477

56 L.F. OF 8" RJT WATER MAIN, (1) 8" VALVE IN 4" VAULT

46 L.F. OF 8" RJT WATER MAIN, (2) 8" 45° BENDS

203 L.F. OF 8" WATER MAIN

NOTE:
 WATER SERVICES: (10) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



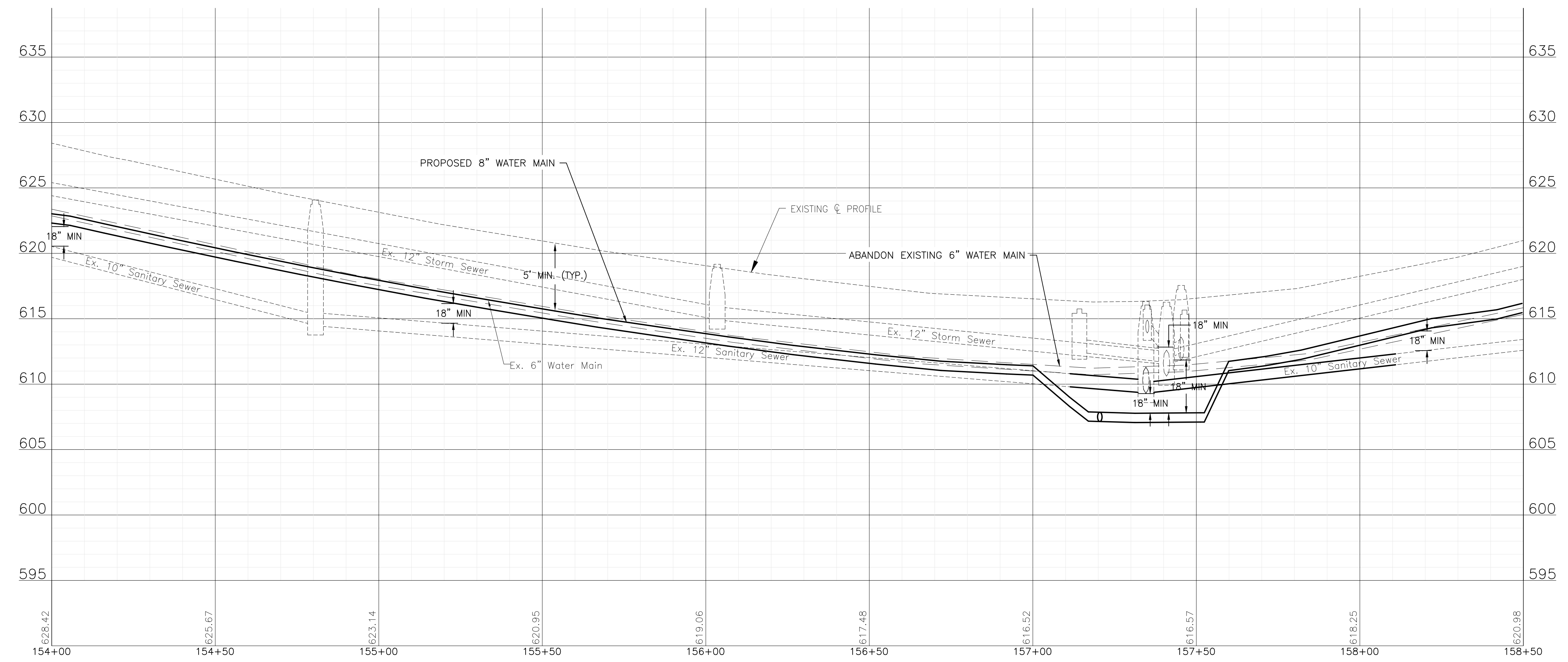
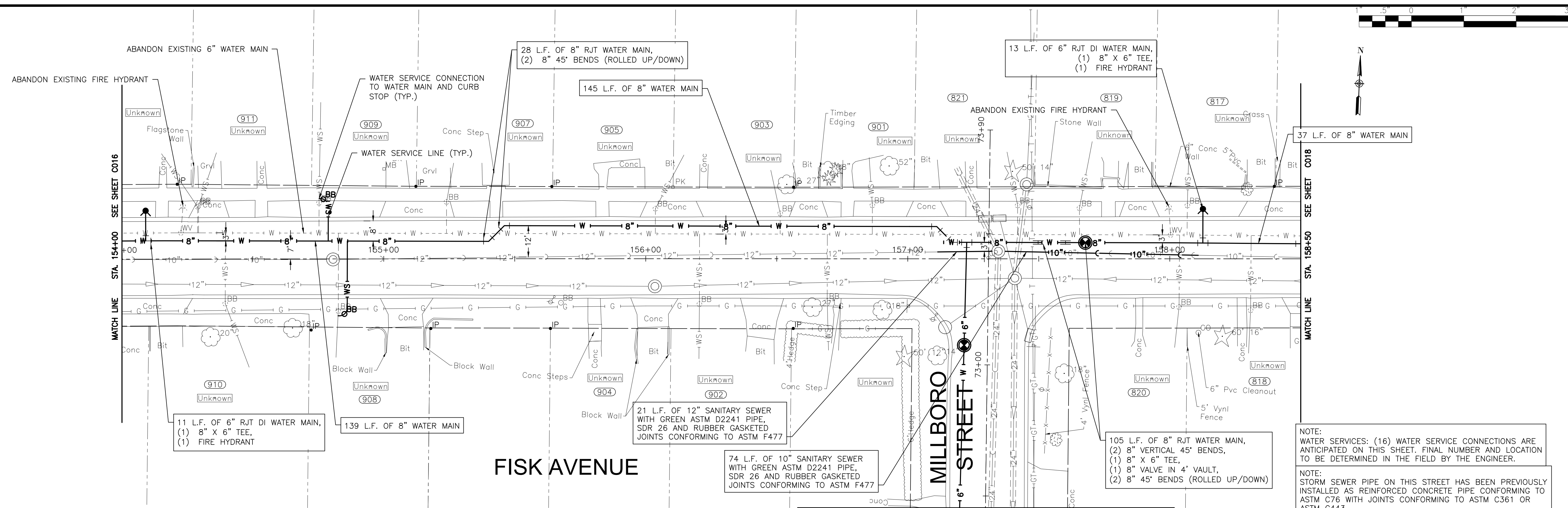
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**CITY OF JOLIET, ILLINOIS
 REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2859-0125**

FISK AVENUE STA 150+00 TO STA 154+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C016
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN FOR BIDDING



NOTE:
 WATER SERVICES: (16) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

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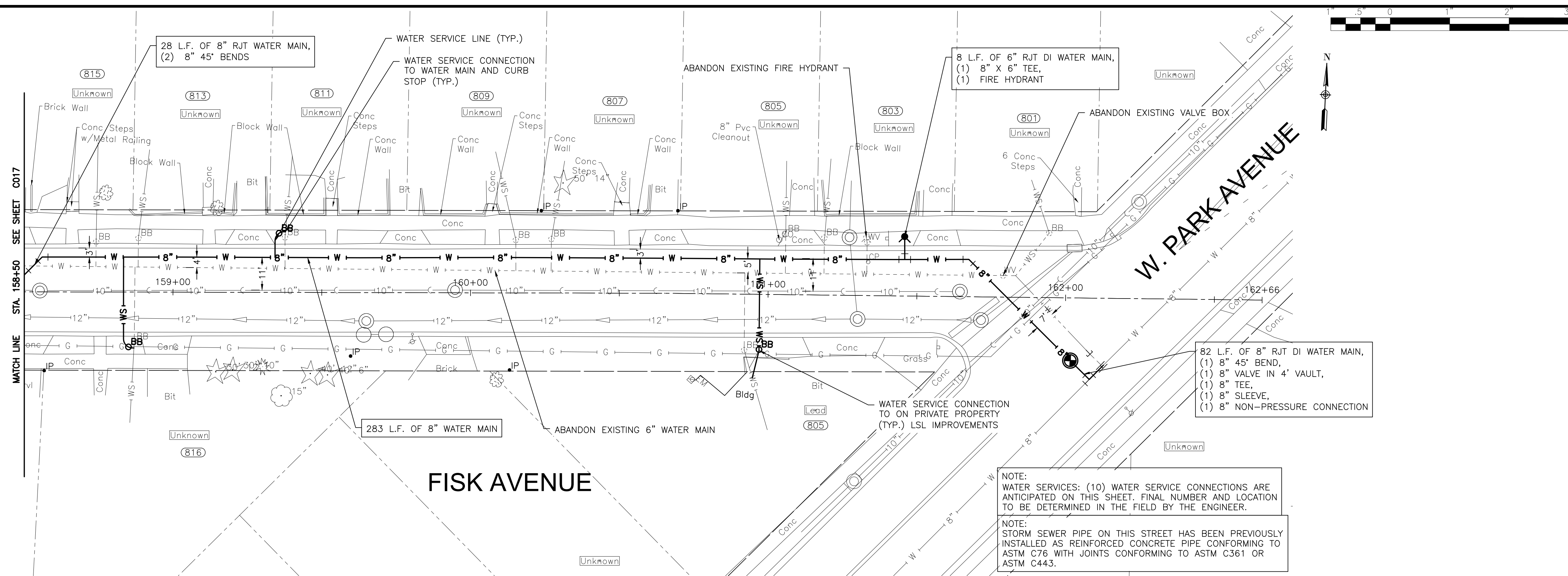
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CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

FISK AVENUE STA 154+00 TO STA 158+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

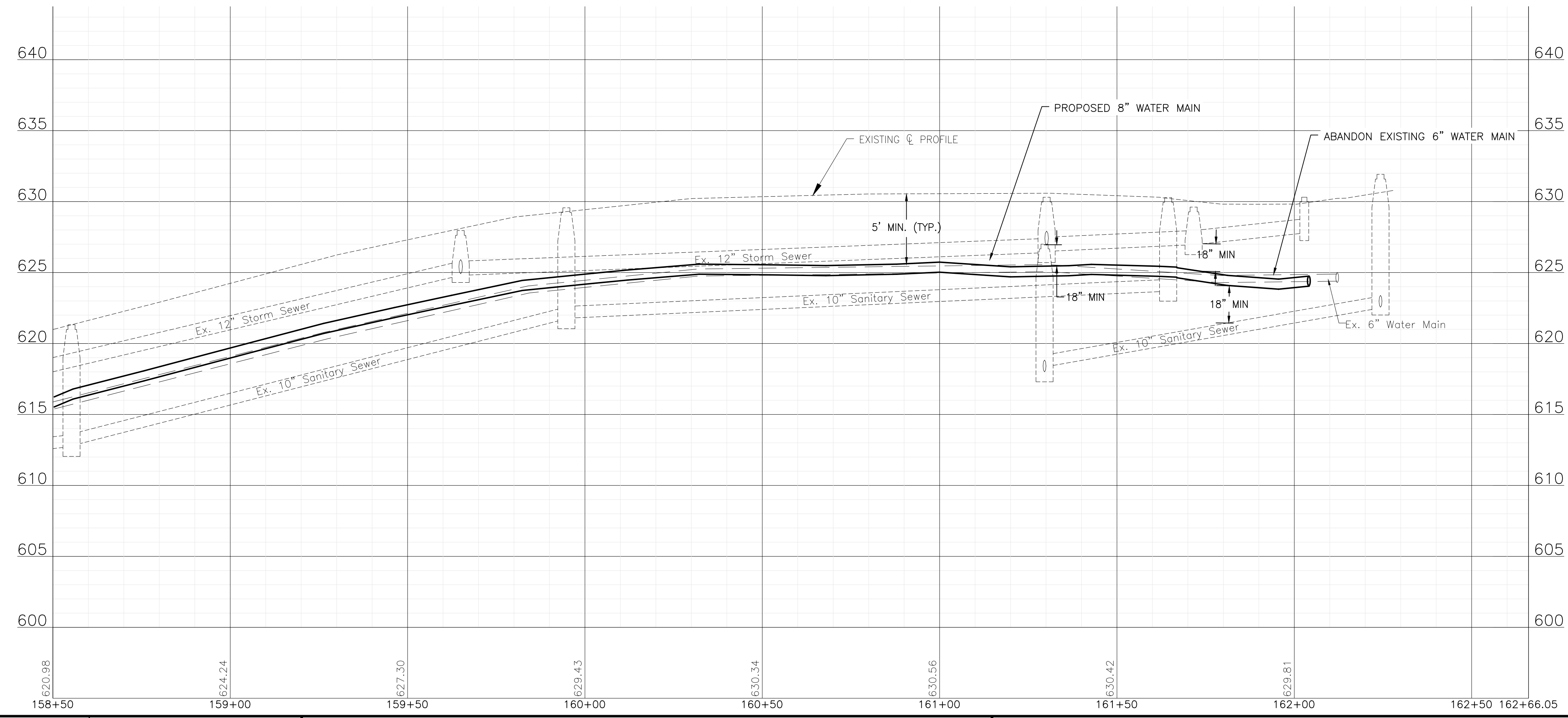
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DRAWN - ABN	27	C017
CHECKED - PMK		
DATE - 10/24/2024		

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NOTE:
WATER SERVICES: (10) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS STREET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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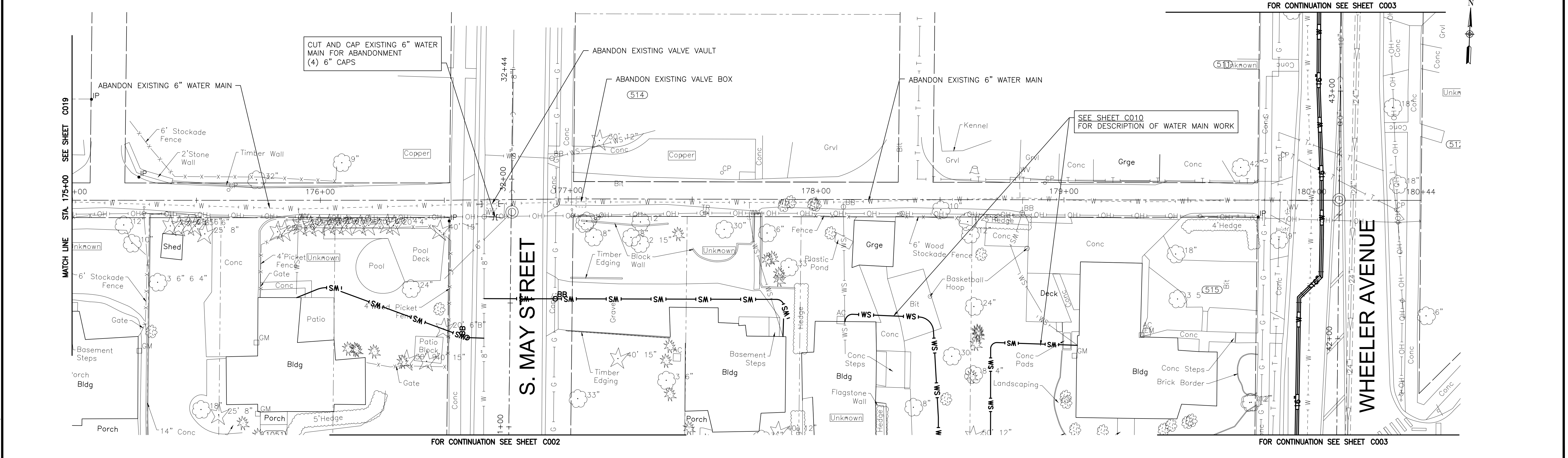
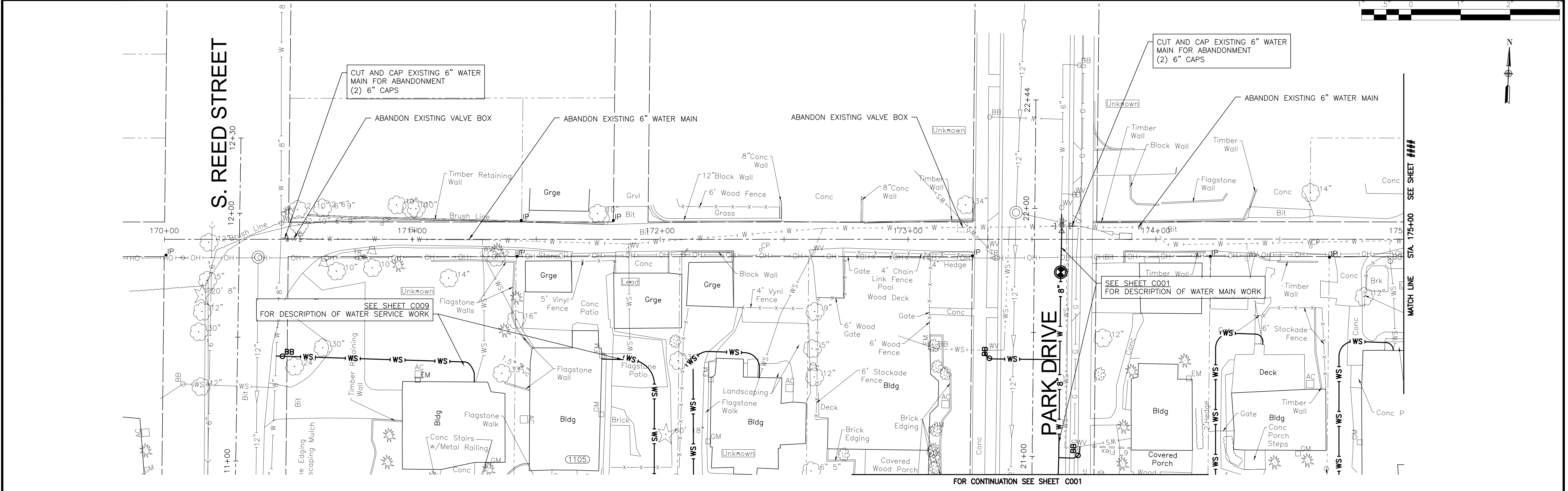
CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

FISK AVENUE STA 158+50 TO STA 162+66 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 2325880

DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C018
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN FOR BIDDING

P:\JOLIO\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REEDWOOD PH3 -DESIGN_SHEETS.DWG ABANDONMENT DETAIL
 Plotted: 10/21/2024 3:43 PM By: MAJORAL
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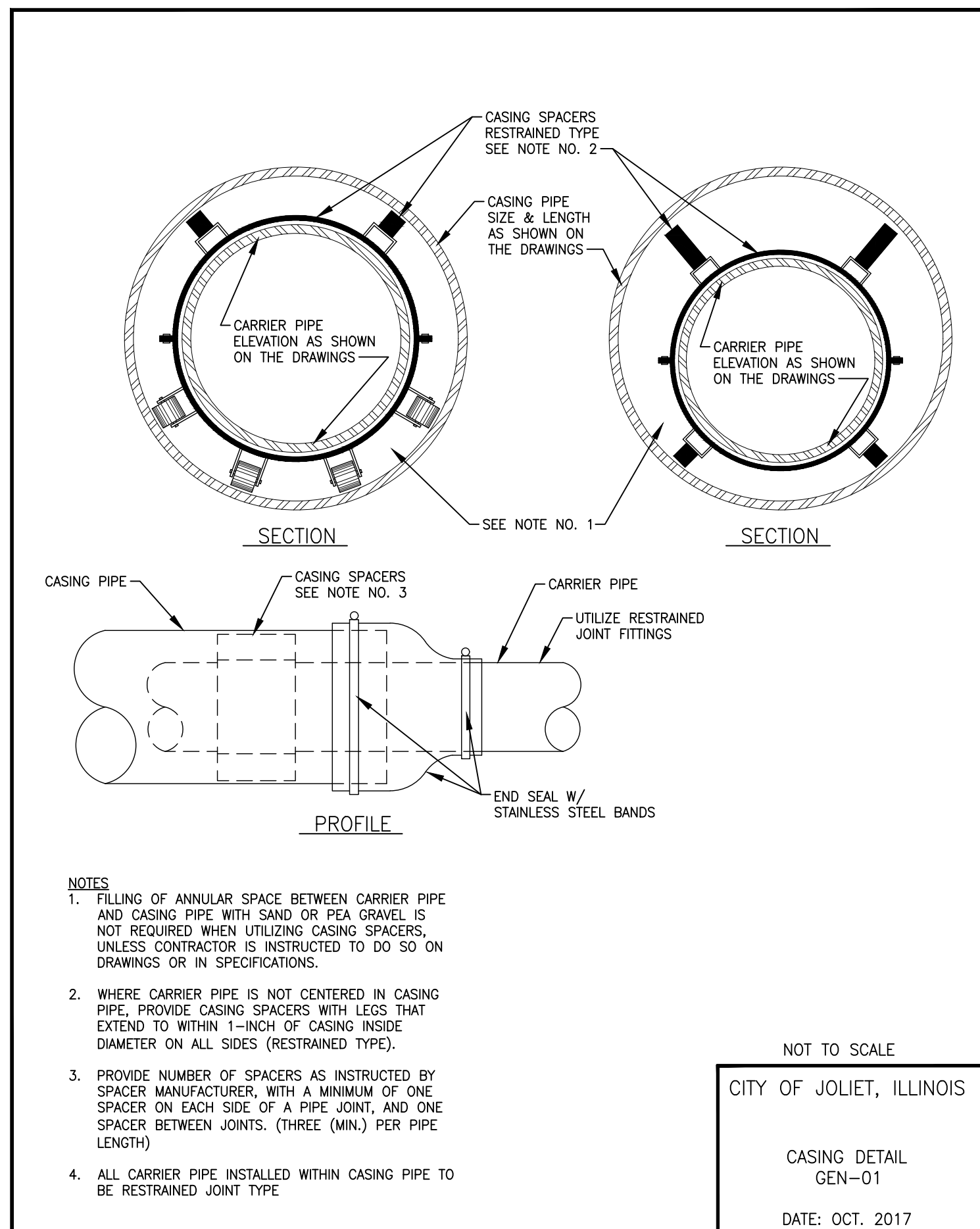


CONSULTANTS	REVISED -
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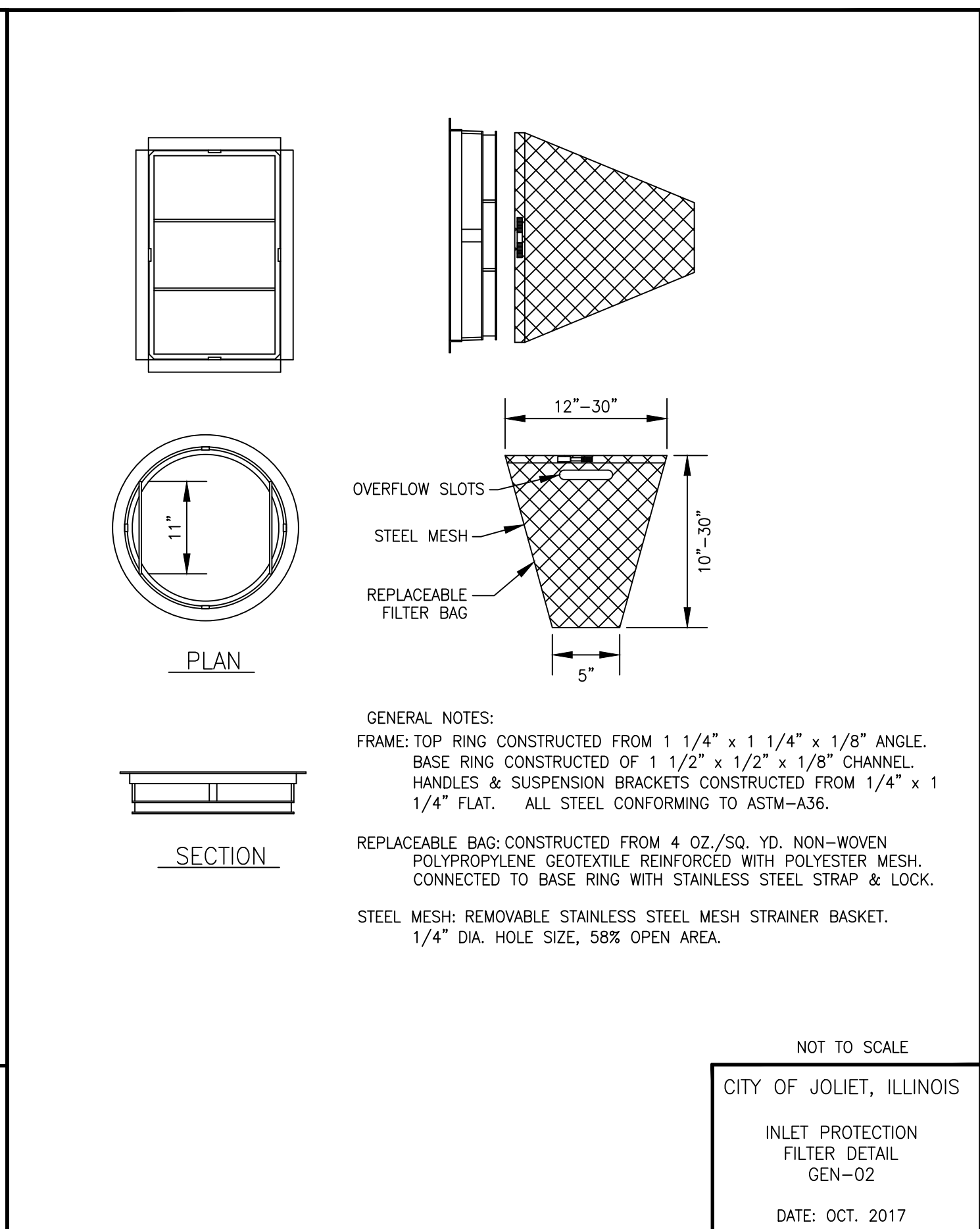
**CITY OF JOLIET, ILLINOIS
 REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2859-0125**

SCALE: 1" = 20'	PROJECT NO: 2325880	TOTAL SHEETS: 27	SHEET NO.: C019
ABANDONMENT DETAIL		DESIGNED - MJA	
		DRAWN - ABN	
		CHECKED - PMK	
		DATE - 10/24/2024	

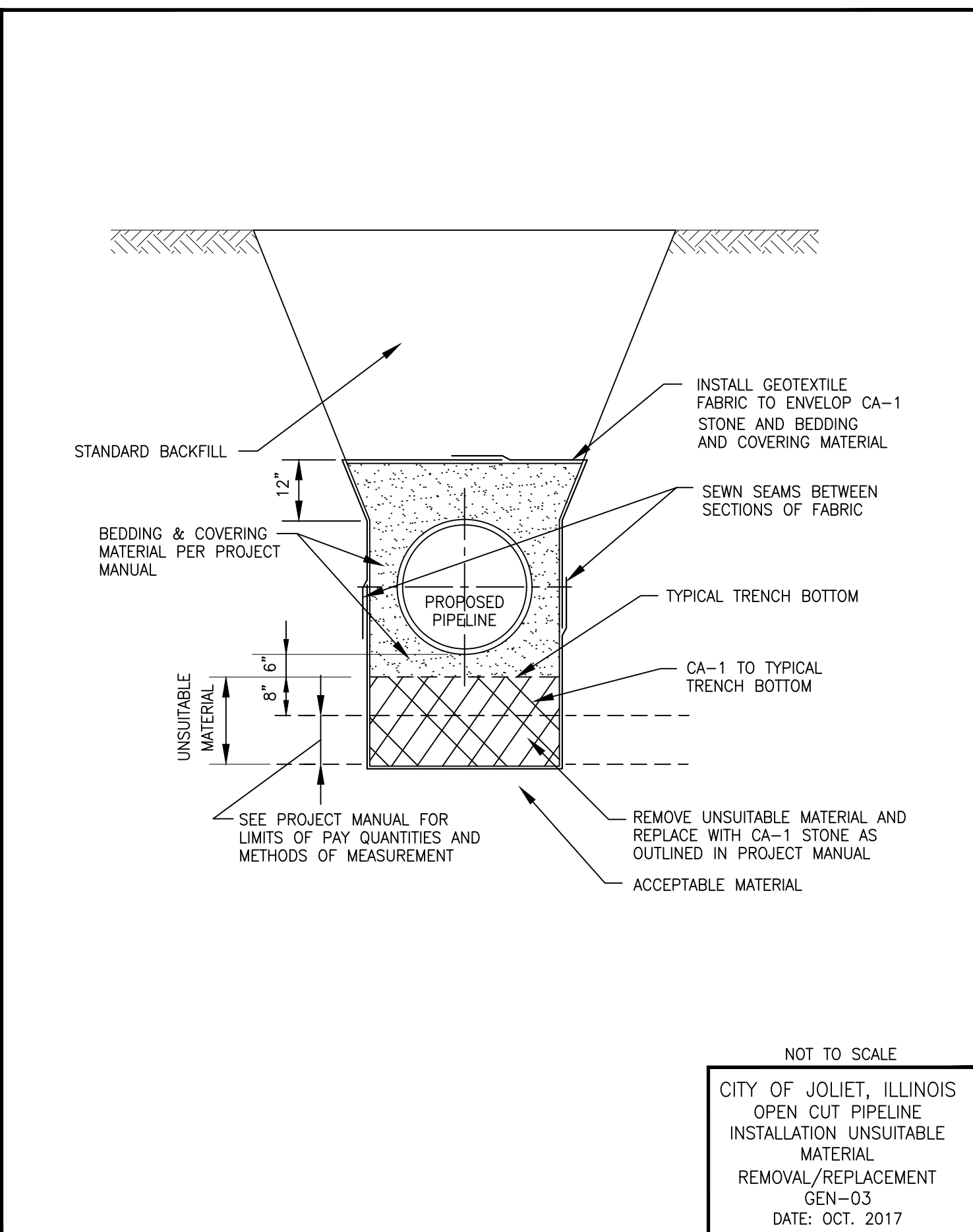
FINAL DESIGN
FOR BIDDING



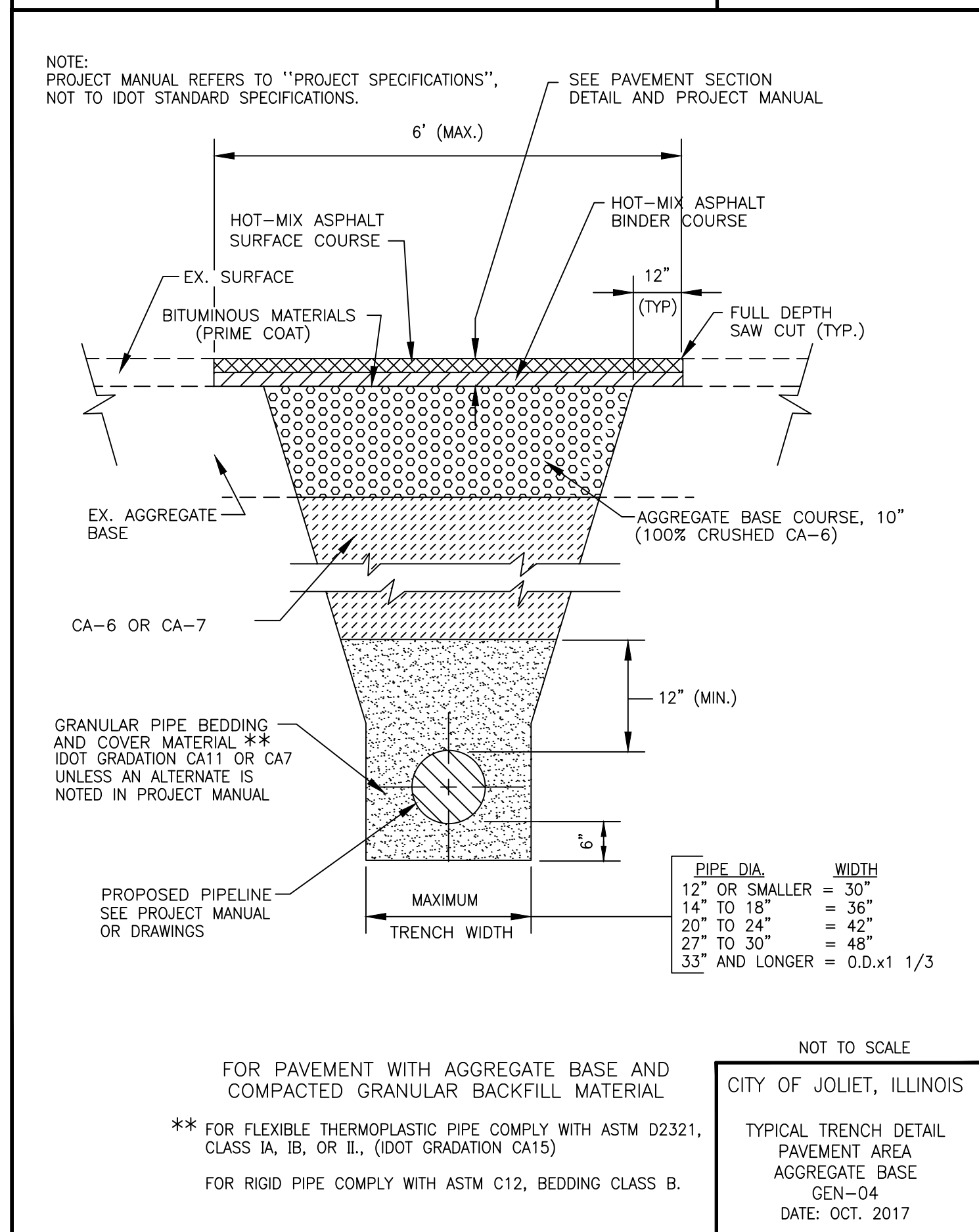
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CITY OF JOLIET, ILLINOIS
CASING DETAIL
GEN-01
DATE: OCT. 2017



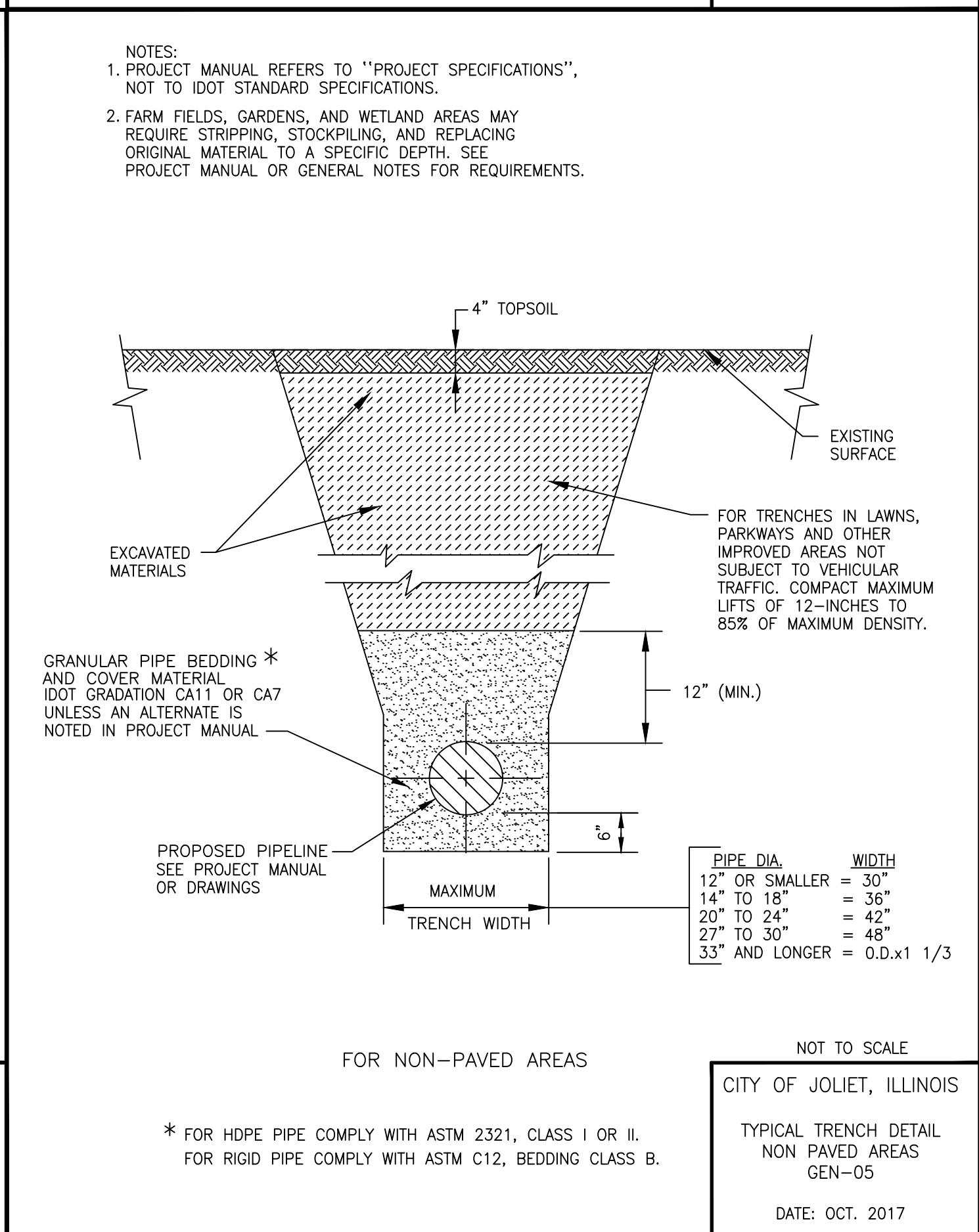
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INLET PROTECTION
FILTER DETAIL
GEN-02
DATE: OCT. 2017



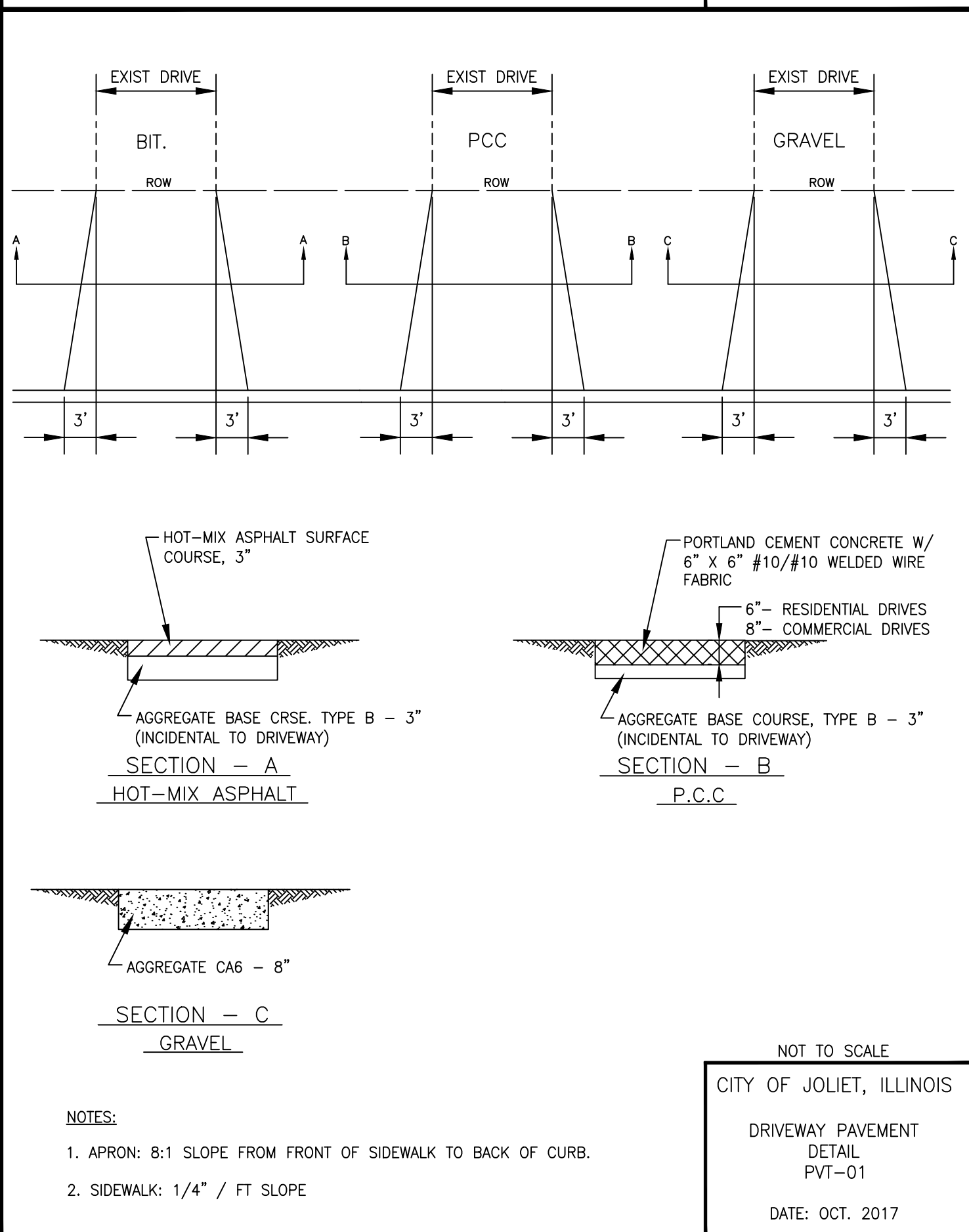
NOT TO SCALE
CITY OF JOLIET, ILLINOIS
OPEN CUT PIPELINE
INSTALLATION UNSUITABLE
MATERIAL
REMOVAL/REPLACEMENT
GEN-03
DATE: OCT. 2017



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 TRENCH DETAIL
NON PAVED AREAS
GEN-05
DATE: OCT. 2017



NOT TO SCALE
CITY OF JOLIET, ILLINOIS
DRIVEWAY PAVEMENT
DETAIL
PVT-01
DATE: OCT. 2017

P:\JOL\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REDWOOD_P3-COVER-SHEETS.DWG Details
 Plotted: 10/21/2024 3:44 PM By: MAMORAL
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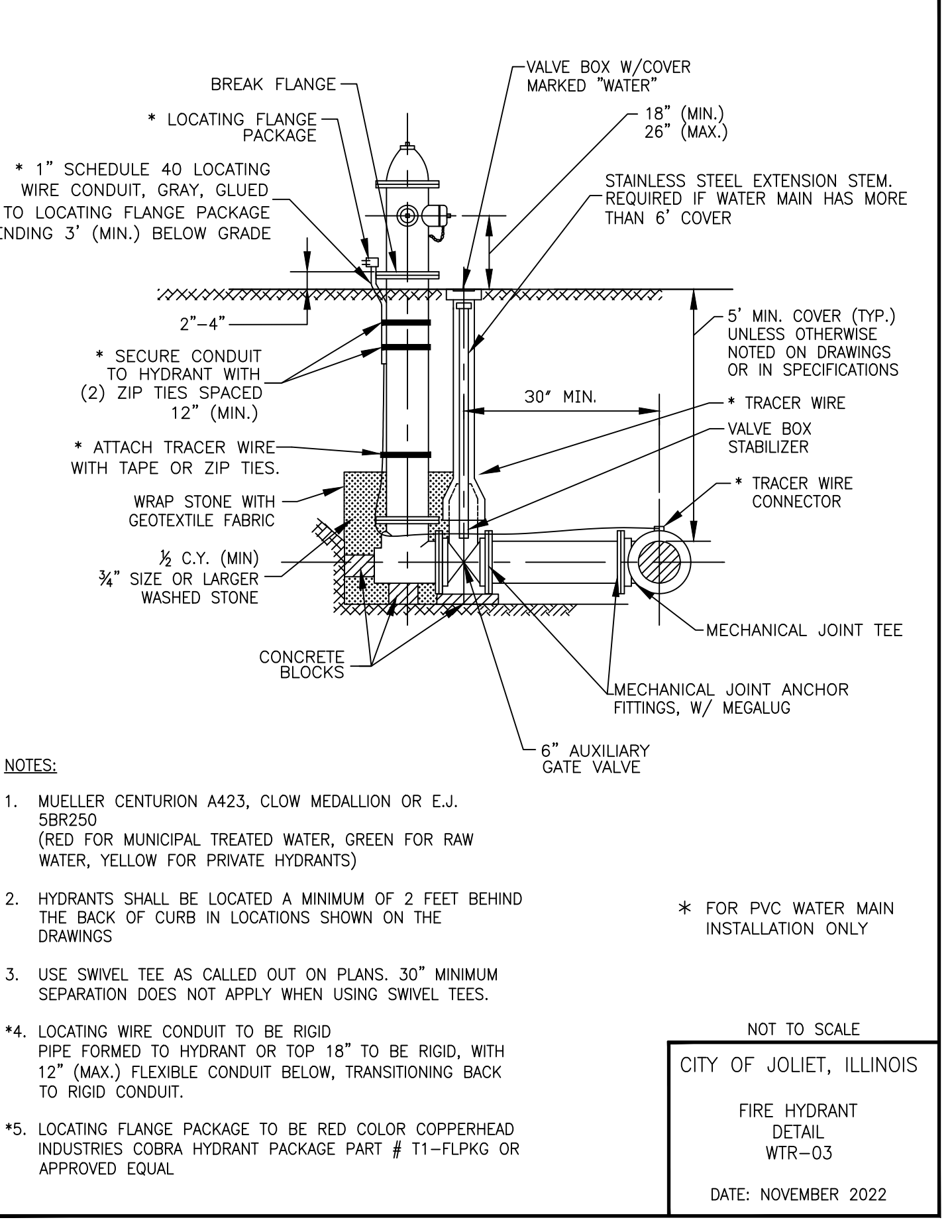
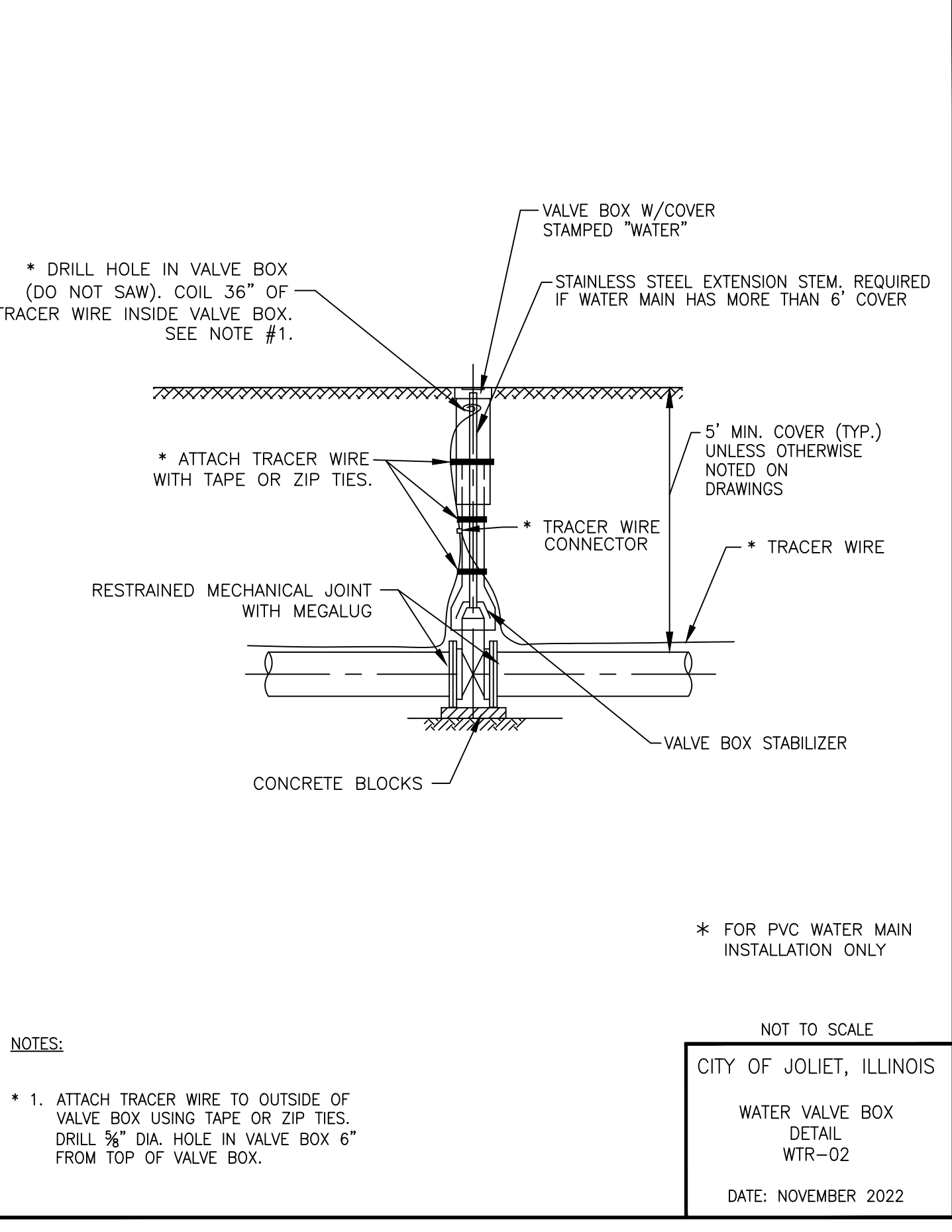
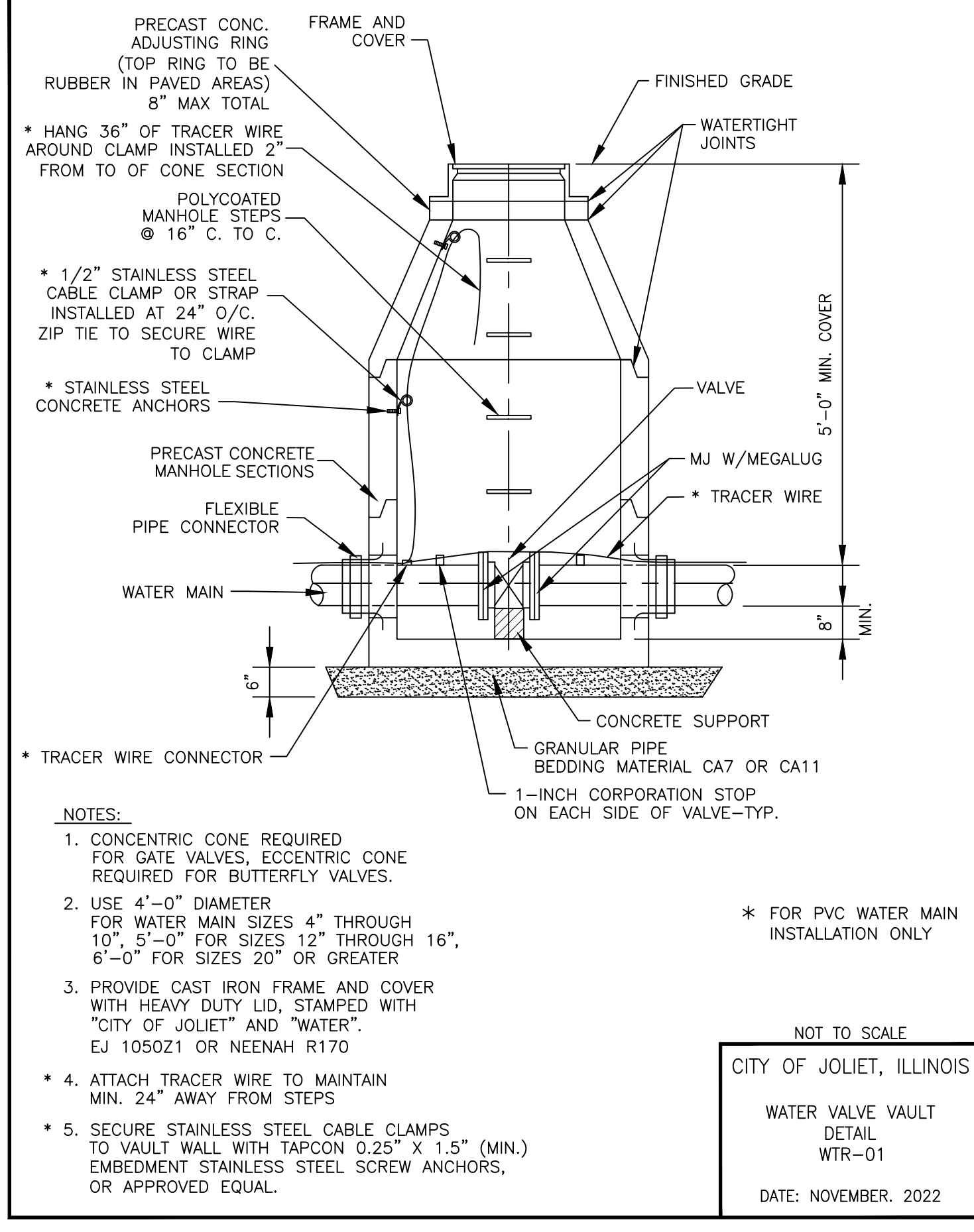
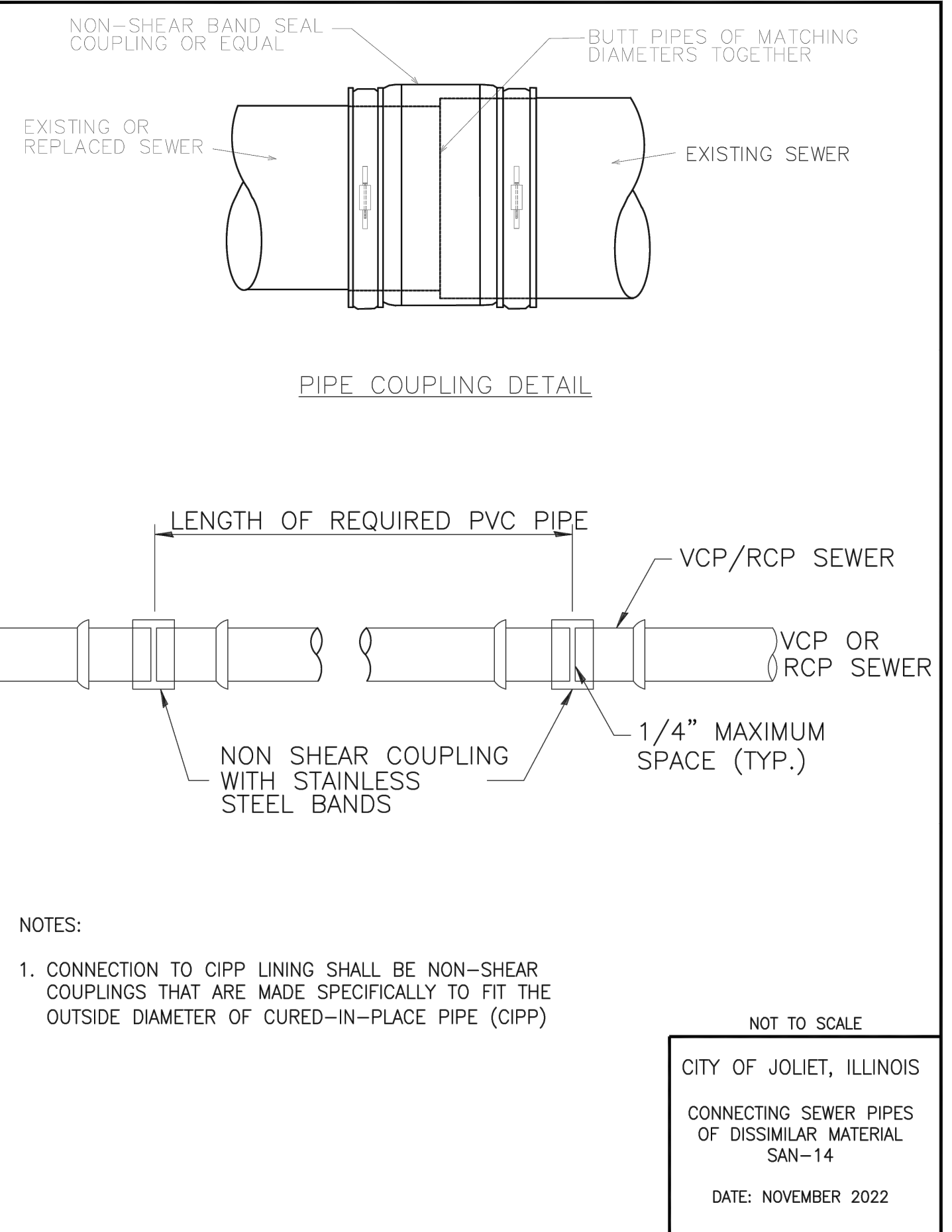
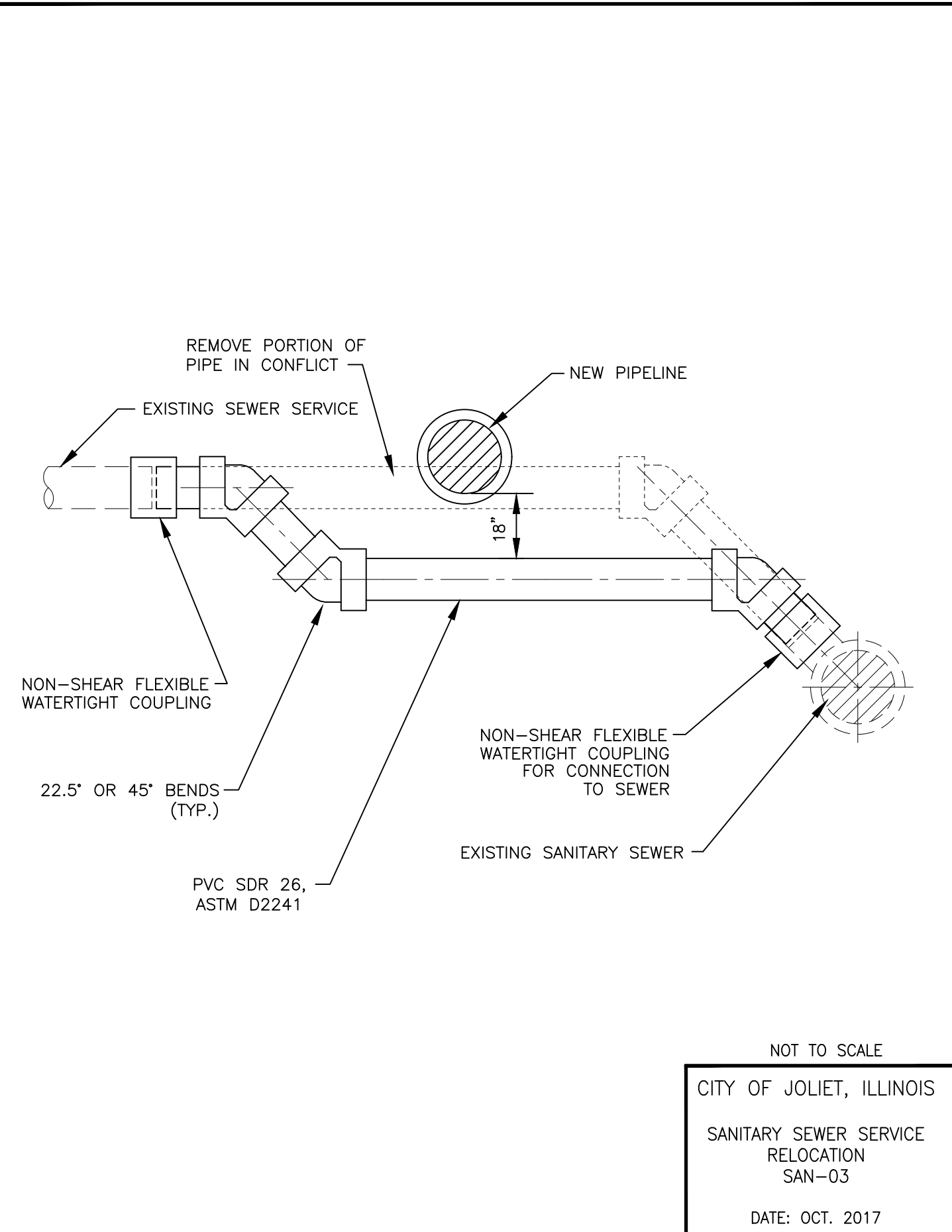
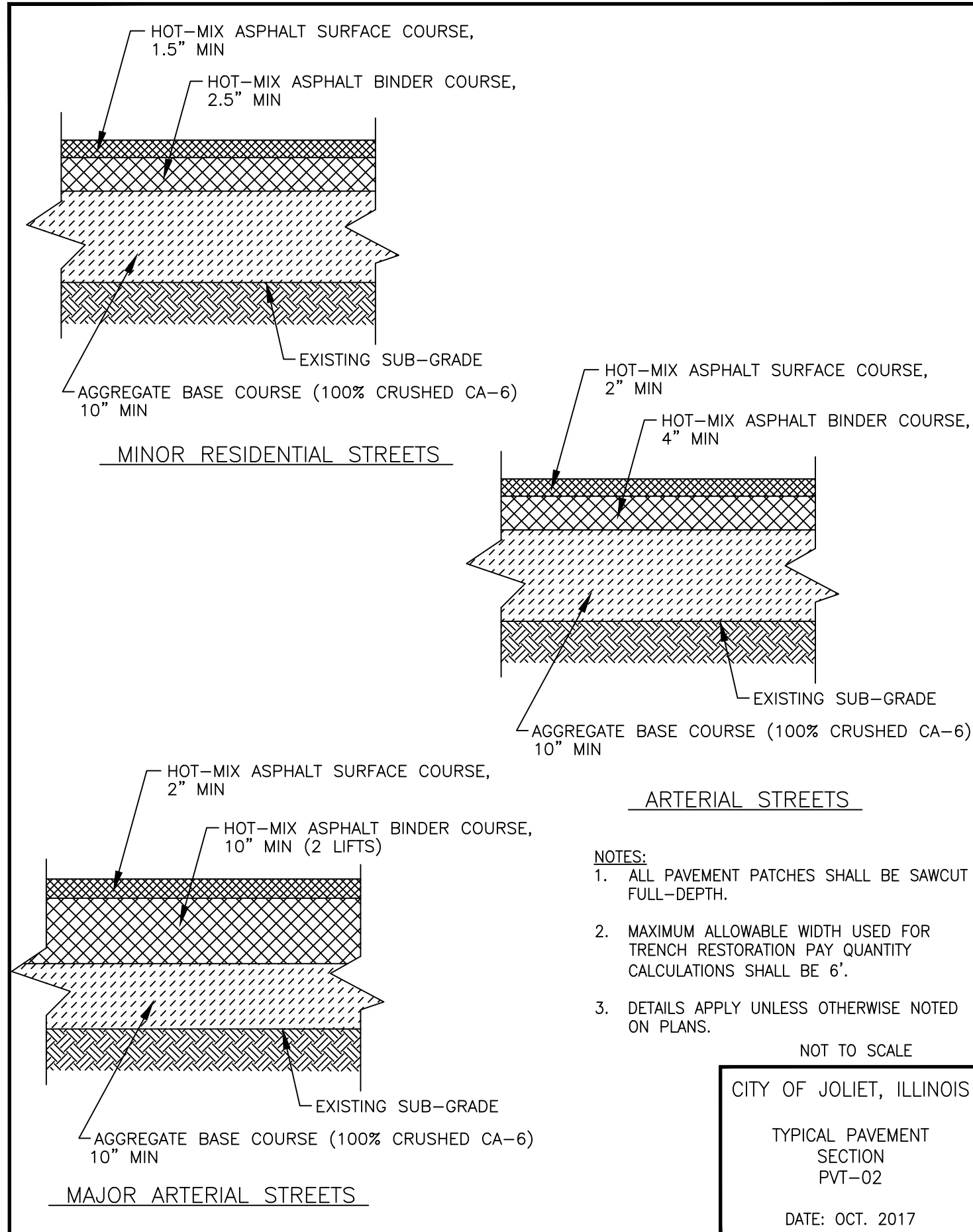
CONSULTANTS	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

CONSTRUCTION DETAILS	
SCALE:	AS NOTED
PROJECT NO:	2325880

DESIGNED -	TOTAL SHEETS	SHEET NO.
MJA	27	G020
DRAWN -		
ABN		
CHECKED -		
PMK		
DATE -		
10/24/2024		

FINAL DESIGN FOR BIDDING



P:\JOLIET\2325880-2025 WATER MAIN\CAD\REEDWOOD PHASE 3\01_CIVIL_3D\01_SHTS-PLANS\2325880-REDWOOD-P3-COVER-SHEETS.DWG Details (2)
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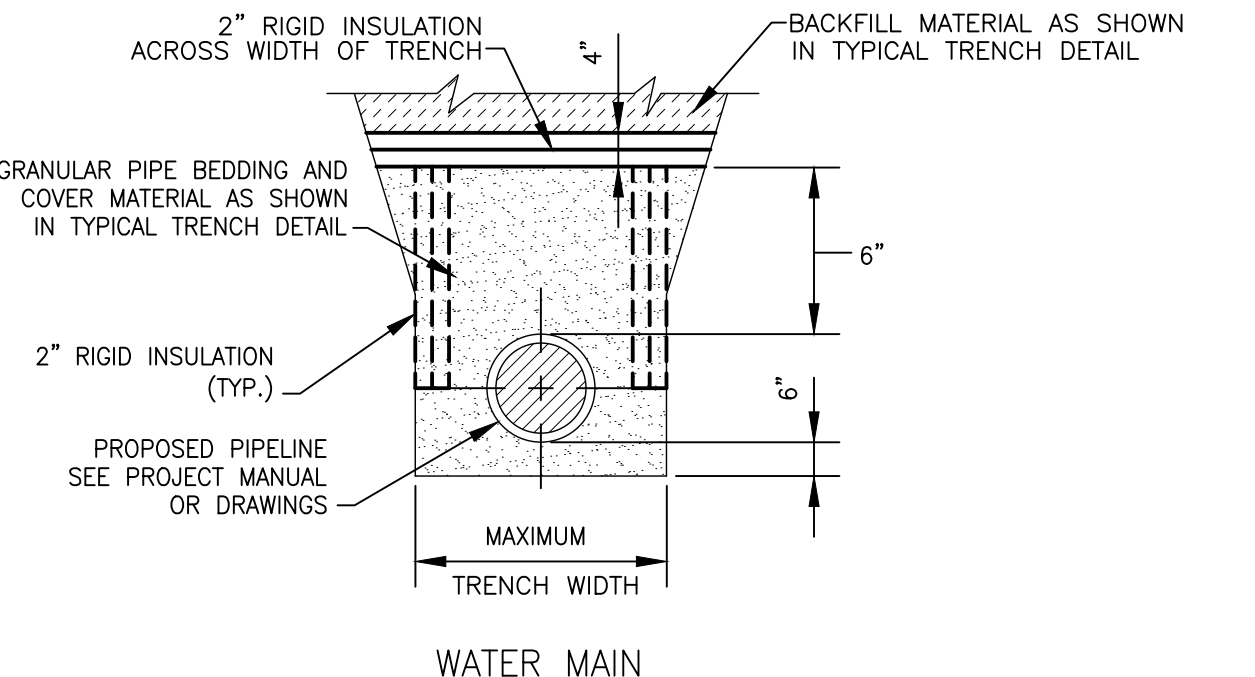
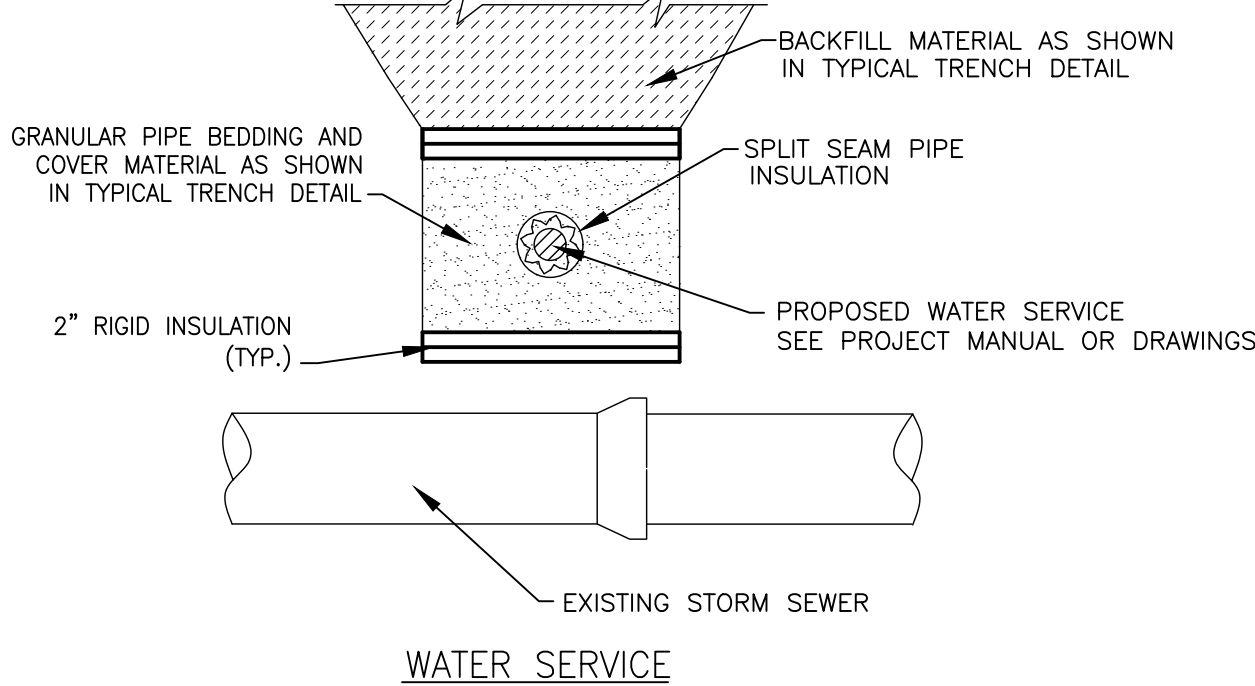
CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

SCALE:	AS NOTED	PROJECT NO:	2325880
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CONSTRUCTION DETAILS

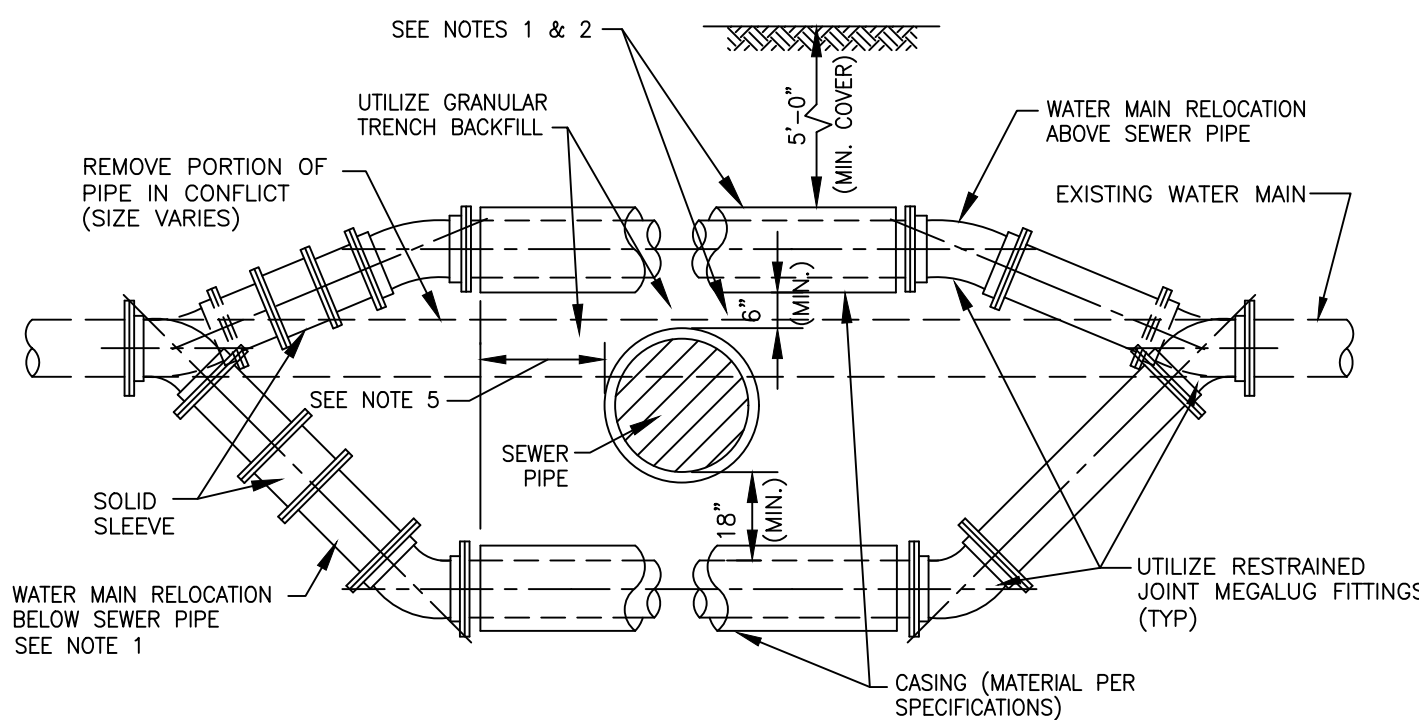
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DRAWN - ABN	27	C021
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN FOR BIDDING



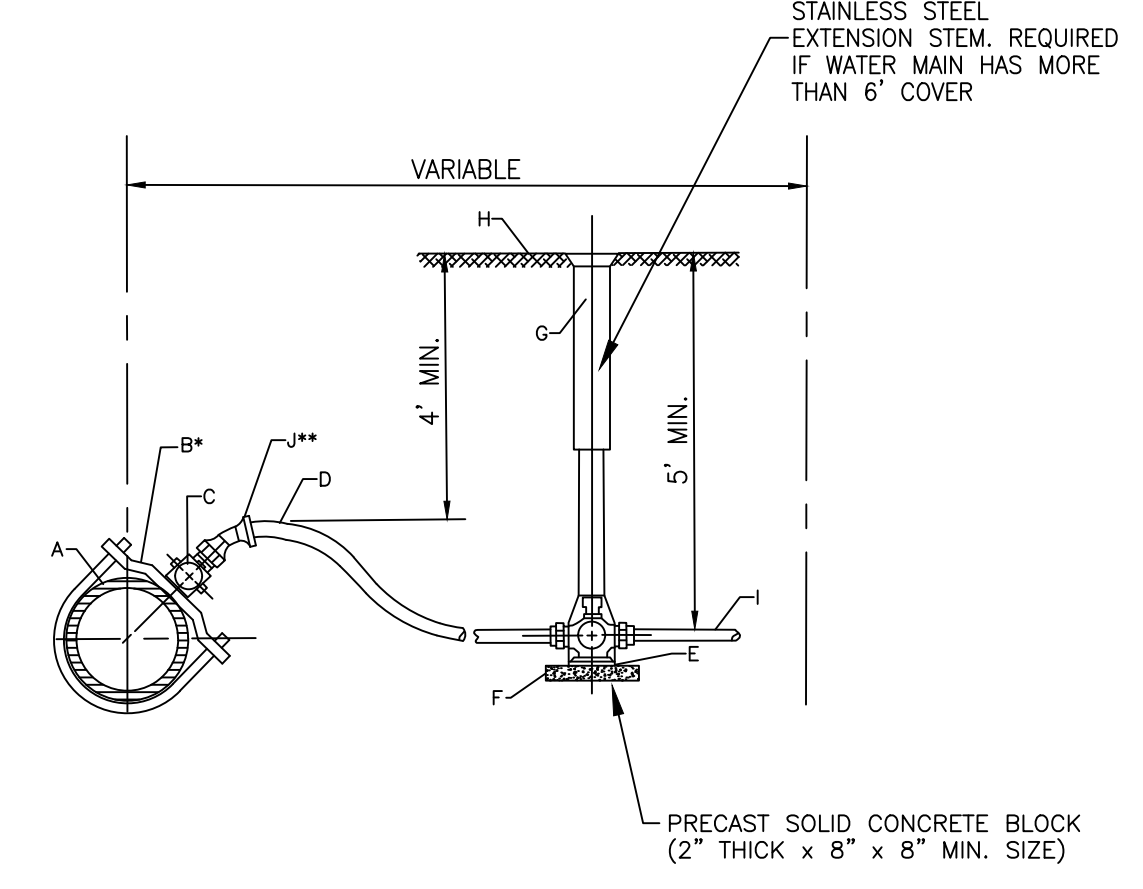
NOTES:
 1. TO BE USED WHEN WATER MAIN AND / OR WATER SERVICE BURY DEPTH IS < 4' OR WHEN WATER SERVICE CROSSES ABOVE STORM SEWER.

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



NOTES:
 1. ONLY TO BE USED IF WATER MAIN CANNOT CROSS ABOVE PROPOSED SEWER AND MAINTAIN THE REQUIRED 18" OF SEPARATION AS SHOWN ON DRAWING, OR APPROVED BY ENGINEER IN FIELD.
 2. WHEN WATER MAIN CROSSES ABOVE SEWER AND MAINTAINS THE REQUIRED 18" OF SEPARATION, THE CASING PIPE IS NOT REQUIRED.
 3. WATER MAIN RELOCATIONS ARE SUBJECT TO INSPECTION AT NORMAL SYSTEM PRESSURE BEFORE BURIAL.
 4. USE ONLY 45 DEGREE BENDS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
 5. CASING MUST EXTEND A MINIMUM OF 10 FEET BEYOND OUTSIDE EDGE OF SEWER PIPE - ON BOTH SIDES OF SEWER.

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

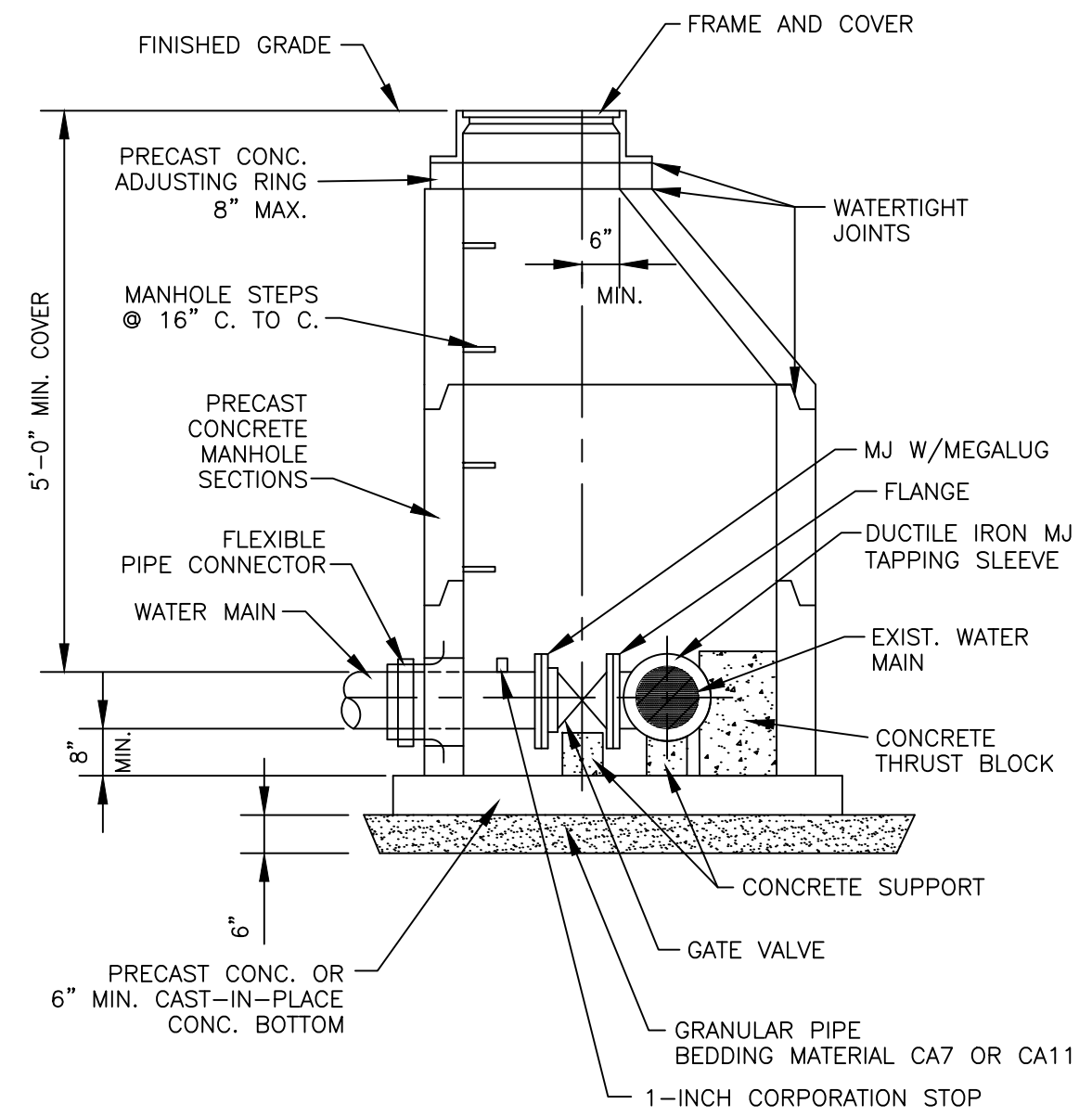


*REQUIRED FOR SERVICES LARGER THAN 1"
 **REQUIRED FOR SERVICES WITH LESS THAN 4' COVER

CONSTRUCTION NOTES
 A. WATER MAIN
 B. DUCTILE IRON, EPOXY COATED BODIES WITH DOUBLE ALLOY STEEL STRAPS AND DOUBLE BOLTS (FOUR BOLTS TOTAL). MUELLER DR2A SERIES OR EQUAL
 C. CORPORATION STOP, A.Y. MCDONALD 74701 BQ
 D. SERVICE PIPE, SEAMLESS SOFT TEMPERED COPPER TYPE - TYPE "K" 1" OR LARGER
 E. CURB STOP, A.Y. MCDONALD 76104Q
 F. CONCRETE BRICK SUPPORT
 G. TYLER 6500 WITH BBAF VALVE BOX STABILIZER OR APPROVED EQUAL
 H. FINISHED GRADE
 I. CONNECT TO EXISTING SERVICE, PROVIDE ADAPTERS AS REQUIRED
 J. EIGHTH BEND COMPRESSION COUPLING - UNION

NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 WATER SERVICE
 CONNECTION DETAIL
 WTR-06
 DATE: OCT. 2020



NOTES:
 1. ECCENTRIC CONE REQUIRED
 2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8", USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14", USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
 3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER".
 EJ 105021

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

DUCTILE IRON-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)

FITTING TYPE	DIAMETER (IN)						
	4"	6"	8"	10"	12"	16"	20"
HORIZONTAL BEND							
11.25'	5	5	5	5	5	5	5
22.5'	5	5	5	5	10	10	10
45'	5	10	10	10	15	15	20
90'	15	20	20	25	30	40	45
VERTICAL BEND							
45'	20	25	35	40	45	60	70
TEE	5	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	20	30	35	45	50	65	80
VALVE (TESTING PRESSURE)	40	60	75	90	105	135	165
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	-	-
20" NOMINAL PIPE	160	150	135	125	105	60	-

NOTE:
 RJT LENGTHS MAY VARY DEPENDING ON SITE CONDITIONS. LENGTHS SHOWN ARE MINIMUM PER 5' BURY DEPTH OF WATER MAIN AND, AGGREGATE PIPE BACKFILL.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 POLYWRAPPED DI RJT
 DETAIL
 WTR-08
 DATE: NOVEMBER 2022

PVC-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)

FITTING TYPE	DIAMETER (IN)						
	4"	6"	8"	10"	12"	16"	20"
HORIZONTAL BEND							
11.25'	5	5	5	5	5	5	5
22.5'	5	5	5	5	5	10	10
45'	5	10	10	10	15	15	20
90'	10	15	15	20	25	35	40
VERTICAL BEND							
45'	15	15	20	25	30	40	45
TEE	5	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	15	20	25	30	35	45	50
VALVE (TESTING PRESSURE)	30	40	50	60	70	90	110
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	-	-
20" NOMINAL PIPE	105	95	90	80	70	40	-

NOTE:
 RJT LENGTHS MAY VARY DEPENDING ON SITE CONDITIONS. LENGTHS SHOWN ARE MINIMUM PER 5' BURY DEPTH OF WATER MAIN AND, AGGREGATE PIPE BACKFILL.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 PVC RJT DETAIL
 WTR-09
 DATE: NOVEMBER 2022

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	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
REEDWOOD PHASE 3 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2859-0125

CONSTRUCTION DETAILS

SCALE:	AS NOTED	PROJECT NO:	2325880
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DESIGNED - MJA	TOTAL SHEETS	SHEET NO.
DRAWN - ABN	27	C022
CHECKED - PMK		
DATE - 10/24/2024		

FINAL DESIGN FOR BIDDING