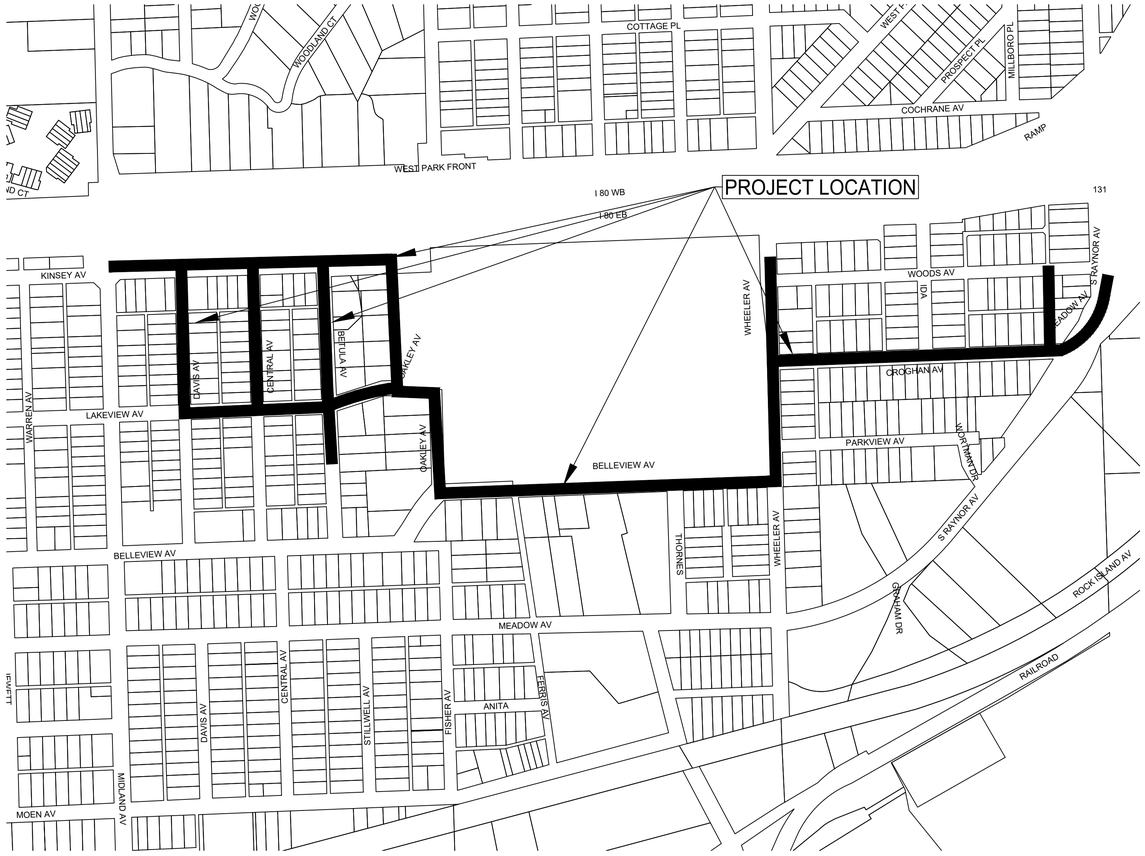
FINAL DESIGN
FOR BIDDING

CITY OF JOLIET, ILLINOIS

WEST PARK WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2768-0124

WATER MAIN REPLACEMENT IPEA LOAN NO. L17-6075



VICINITY MAP

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6	KINSEY AVENUE STA. 14+50 TO STA. 19+50 PLAN AND PROFILE
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27	CONSTRUCTION DETAILS
28	CONSTRUCTION DETAILS
29	CONSTRUCTION DETAILS

EXISTING UTILITIES: A223321966

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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1" .5" 0 1" 2" 3"

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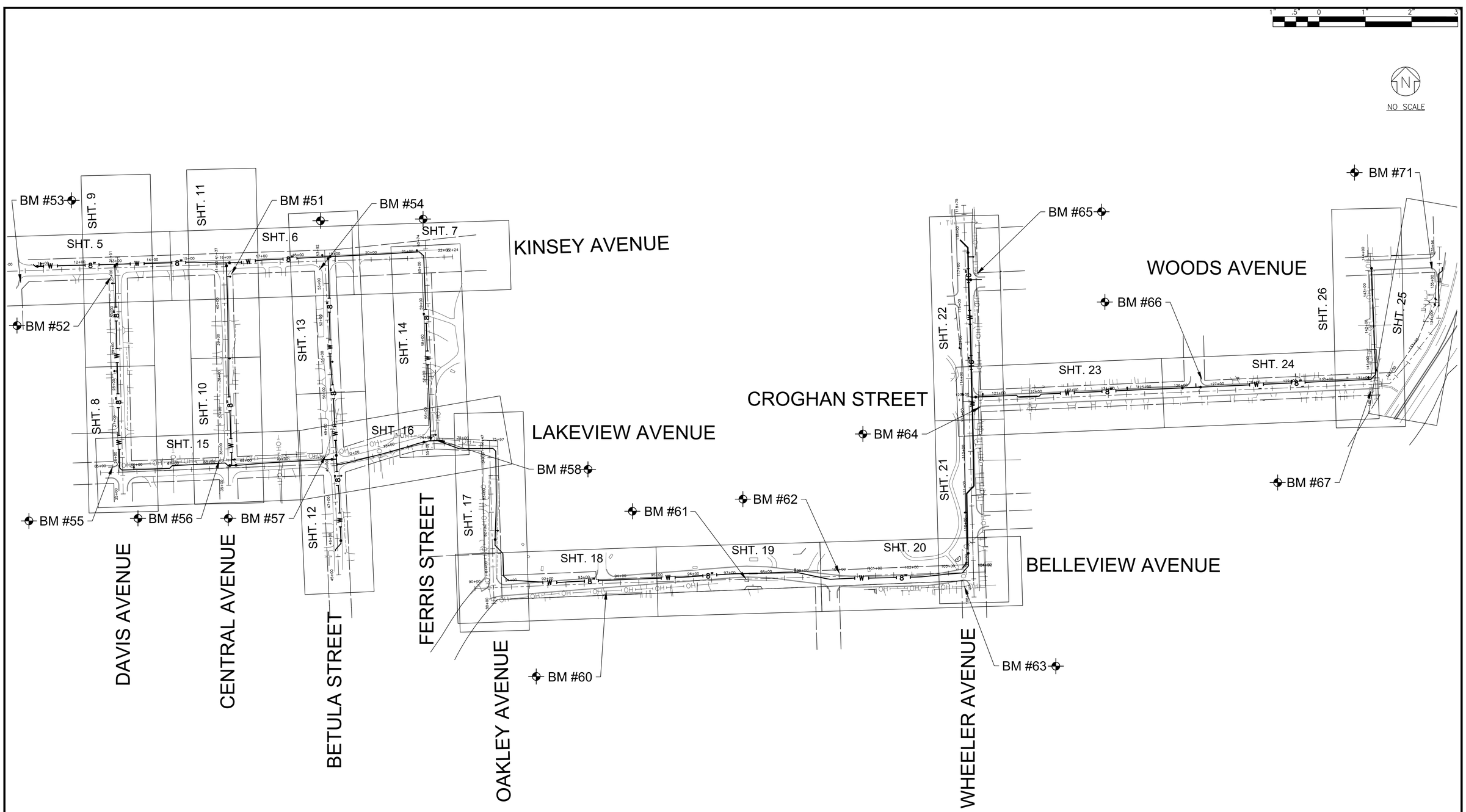
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PROJECT NO.: 221587.40 DATE: 10/12/2023

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK_COVER_GEN_DETS.DWG COVER
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FINAL DESIGN
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BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS WEST PARK WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2768-0124
		REVISED –	
		REVISED –	
		REVISED –	

SHEET KEY

SCALE:	AS NOTED	PROJECT NO:	221587.40	DESIGNED – BSG DRAWN – JJS CHECKED – MJF DATE – 10/12/2023	TOTAL SHEETS: 29 / SHEET NO.: 2

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK- SHEET KEY.DWG BW_IL_34X22
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LEGEND

EXISTING		PROPOSED
	SANITARY SEWER OR SERVICE	
	STORM SEWER OR SERVICE	
W	WATER MAIN OR SERVICE	W
FM	FORCE MAIN	FM
	MANHOLE	
	CATCH BASIN	
	INLET	
	DRYWELL	
	CULVERT END SECTION	
WV	FIRE HYDRANT W/ AUX. VALVE, VALVE BOX, AND COVER	
	WATER VALVE W/ BOX AND COVER	
BB	WATER VALVE VAULT	BB
	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	
WM	WATER METER	
	CLEAN OUT	
	SEPTIC VENT	
	TO BE ABANDONED AND/OR REMOVED	
	STRUCTURE TO BE ABANDONED	
G	GAS LINE	
GV	GAS VALVE W/ BOX AND COVER	
GVV	GAS VALVE VAULT	
GM	GAS METER	
GR	GAS RISER	
GAS	GAS SERVICE VALVE	
T	TELEPHONE CABLE	
TD	TELEPHONE DUCT	
TEL	TELEPHONE VAULT	
TR	TELEPHONE RISER	
CTV	CABLE TELEVISION (BURIED)	
CTV	CABLE T.V. RISER	
CTV	CABLE T.V. VAULT	
E	UNDERGROUND ELECTRICAL	

LEGEND

EXISTING		PROPOSED
EM	ELECTRIC METER	
ET	PAD MOUNTED TRANSFORMER	
EV	ELECTRIC VAULT	
JB	JUNCTION BOX	
	UTILITY POLE	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
MB	MAIL BOX	
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD	
	HANDHOLE	
12"	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	12" (HATCHED SHALL BE REMOVED)
16"	CONIFEROUS TREE (W/ HEIGHT)	16" (HATCHED SHALL BE REMOVED)
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
X X	FENCE	
	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
DL	DITCH	
EXIST. R.O.W.	RIGHT OF WAY (ROW)	
ROW	RIGHT OF WAY MONUMENT	
P.L.	UNFENCED PROPERTY LINE	
IP	IRON PIPE (PROPERTY CORNER)	
	CENTER LINE	
625.35 / 625.9 +25	PROPOSED EL./EXISTING EL. and STATION	
#	SOIL BORING AND NUMBER	
B.M. CP	BENCH MARK	
	SURVEY CONTROL POINT	
	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

BENCHMARKS (NAVD 88 DATUM)

B.M. # 51	RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT SOUTH EAST CORNER OF KINSEY AVENUE AND CENTRAL AVENUE ELEV. = 634.99
B.M. # 52	RAILROAD SPIKE SET IN NORTH EAST FACE POWER POLE LOCATED AT SOUTH WEST CORNER OF DAVIS AVENUE AND KINSEY AVENUE ELEV. = 633.77
B.M. # 53	RAILROAD SPIKE SET IN WEST FACE POWER POLE LOCATED AT SOUTH EAST CORNER OF KINSEY AVENUE AND MIDLAND AVENUE ELEV. = 633.13
B.M. # 54	RAILROAD SPIKE SET IN NORTH EAST FACE POWER POLE LOACTED AT SOUTH WEST CORNER OF BETULA STREET AND KINSEY AVENUE ELEV. = 631.515
B.M. # 55	RAILROAD SPIKE SET IN SOUTH EAST FACE POWER POLE LOCATED AT NORTH WEST CORNER OF LAKEVIEW AVENUE AND DAVIS AVENUE ELEV. = 641.25
B.M. # 56	RAILROAD SPIKE SET IN SOUTH EAST FACE POWER POLE LOCATED AT NORTH WEST CORNER OF CENTRAL AVENUE AND LAKEVIEW AVENUE ELEV. = 640.42
B.M. # 57	RAILROAD SPIKE SET IN SOUTH FACE POWER POLE LOCATED AT NORTH WEST CORNER OF BETULA STREET AND LAKEVIEW AVENUE ELEV. = 633.83
B.M. # 58	RAILROAD SPIKE SET IN SOUTH EAST FACE POWER POLE LOCATED AT NORTH WEST CORNER OF LAKEVIEW AVENUE AND DAVIS AVENUE ELEV. = 631.81
B.M. # 59	RAILROAD SPIKE SET IN NORTH WEST FACE POWER POLE LOCATED 20 FEET WEST OF THE ADDRESS 1123 BELLEVIEW AVENUE ELEV. = 621.29
B.M. # 60	RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT SOUTH EAST CORNER OF BELLEVIEW AVENUE AND FERRIS STREET ELEV. = 613.813
B.M. # 61	CHISELED "X" ON CONCRETE WALK ON SOUTH SIDE OF BELLEVIEW AVENUE LOCATED 230 FEET WEST OF THORNE STREET ELEV. = 580.466
B.M. # 62	RAILROAD SPIKE SET IN SOUTH FACE POWER POLE LOCATED AT NORTH EAST CORNER OF THORNE STREET AND BELLEVIEW AVENUE ELEV. = 584.077
B.M. # 63	RAILROAD SPIKE SET IN NORTH EAST FACE POWER POLE LOCATED AT SOUTH WEST CORNER OF WHEELER AVENUE AND BELLEVIEW AVENUE ELEV. = 606.403
B.M. # 64	RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT SOUTH EAST CORNER OF WHEELER AVENUE AND CROGHAN AVENUE ELEV. = 628.874
B.M. # 65	RAILROAD SPIKE SET IN WEST FACE POWER POLE LOCATED AT NORTH EAST CORNER OF WHEELER AVENUE AND WOODS AVENUE ELEV. = 635.418
B.M. # 66	ARROW BOLT ON THE FIRE HYDRANT LOCATED AT THE NORTH EAST CORNER OF CROGHAN STREET AND IDA STREET ELEV. = 612.918
B.M. # 67	RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT SOUTH SIDE OF CROGHAN STREET AT EAST END. ELEV. = 596.744
B.M. # 71	RAILROAD SPIKE SET IN EAST FACE POWER POLE LOCATED AT SOUTH WEST CORNER OF WOODS AVENUE AND RAYNOR AVENUE ELEV. = 599.905

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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CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

LEGEND, BENCHMARKS AND ABBREVIATIONS

SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG			
DRAWN – JJS			
CHECKED – MJF		29	3
DATE – 10/12/2023			

CITY OF JOLIET WATER SYSTEM GENERAL NOTES

1. 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.

2. 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

3. 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.

4. 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".

5. 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.

6. NOTIFY THE CITY'S PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IF EXISTING LEAD WATER SERVICES ARE DISCOVERED.

7. PROVIDE PROPERTY OWNERS ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAYS.

8. DO NOT STORE BEDDING AND BACKFILL MATERIALS, PIPES, FITTINGS, VAULTS, OR OTHER MATERIALS IN AREAS THAT WILL OBSTRUCT SIGHT LINES FOR STREETS AND DRIVEWAYS.

9. 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.

10. 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.

11. PROVIDE COMPRESSION TYPE FIRE HYDRANTS WITH A 5¼–INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O–RING SEALS, TWO 2½–INCH HOSE NOZZLES, AND A 4½–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.

12. PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.

13. 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.

14. 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 AMERICAN FLOW CONTROL, CLOW, AND EJ.

15. 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.

16. 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.

17. 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.

18. CITY OF JOLIET WILL ALLOW TESTING NEW WATER MAIN AGAINST EXISTING VALVES OR AGAINST A CAP WHERE A NEW VALVE IS NOT PRESENT.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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. PAVEMENT RESTORATION SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE WITHIN THE PROJECT LIMITS.

24. 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.

25. CONTRACTOR TO COMPLY WITH PROJECT MILESTONES AND REQUIREMENTS SPECIFIED IN SUPPLEMENTARY CONDITIONS AND SECTION 01 31 13.16

26. 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.

27. CONTRACTOR SHALL COORDINATE WITH CITY ARBORIST IN AREAS WHERE THE WATER MAIN IS TO BE INSTALLED WITH TREE TUNNELING OR WHERE TREE REMOVAL IS NECESSARY FOR THE INSTALLATION OF THE WATER MAIN.

SUMMARY OF QUANTITIES

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	WATER MAIN (OPEN CUT), 6–INCH, DI	FOOT	622
5	WATER MAIN (OPEN CUT), 8–INCH	FOOT	7,038
6	WATER MAIN (OPEN CUT), 16–INCH, DI	FOOT	866
7	WATER MAIN (DIRECTIONALLY DRILLED), 8–INCH	FOOT	357
8	CASING PIPE (OPEN CUT), 16–INCH	FOOT	48
9	CASING PIPE (TUNNELING UNDER SEWER), 16–INCH	FOOT	23
10	MISCELLANEOUS FITTINGS	POUND	11,000
11	CONNECT TO WATER MAIN (NON–PRESSURE), 6–INCH	EACH	2
12	CONNECT TO WATER MAIN (NON–PRESSURE), 8–INCH	EACH	3
13	CONNECT TO WATER MAIN (NON–PRESSURE), 16–INCH	EACH	1
14	CONNECT TO WATER MAIN (PRESSURE), 8–INCH X 6–INCH	EACH	1
15	GATE VALVE, 8–INCH	EACH	20
16	BUTTERFLY VALVE, 16–INCH	EACH	2
17	VALVE VAULT, 4–FOOT DIAMETER	EACH	20
18	VALVE VAULT, 5–FOOT DIAMETER	EACH	2
19	VALVE VAULT (ADDITIONAL DEPTH), 4–FOOT DIAMETER	VFT	3
20	VALVE VAULT (ADDITIONAL DEPTH), 5–FOOT DIAMETER	VFT	3
21	FIRE HYDRANT	EACH	21
22	FIRE HYDRANT BARREL EXTENSION	VFT	3
23	LINE STOP, 6–INCH	EACH	2
24	LINE STOP, 8–INCH	EACH	3
25	LINE STOP, 16–INCH	EACH	1
26	STORM SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	32
27	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
28	TEMPORARY WATER SYSTEM	LSUM	1
29	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1–INCH	EACH	110
30	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5–INCH	EACH	1
31	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2–INCH	EACH	1
32	WATER SERVICE LINE TYPE K – OPEN CUT, 1–INCH	FOOT	844
33	WATER SERVICE LINE TYPE K – OPEN CUT, 1.5–INCH	FOOT	30
34	WATER SERVICE LINE TYPE K – OPEN CUT, 2–INCH	FOOT	30
35	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH	FOOT	2,717
36	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH	FOOT	30
37	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH	FOOT	30
38	WATER SERVICE CASING PIPE	FOOT	440
39	PROJECT MANAGEMENT	HOUR	3
40	UTILITY LOCATION – PRIVATE PROPERTY	EACH	3
41	LANDSCAPING PROJECT MANAGEMENT	HOUR	6
42	LANDSCAPING RESTORATION ALLOWANCE	EACH	3
43	SHRUB AND BRUSH DISPOSAL	EACH	8
44	CRIMP WATER SERVICE	EACH	3
45	REMOVE AND REPLACE DRAIN TILES, 6–INCH THROUGH 12–INCH	FOOT	220
46	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	8
47	REMOVE AND REINSTALL BARRICADE	LSUM	1
48	EXPLORATORY EXCAVATION	EACH	8
49	INLET PROTECTION FILTER	EACH	29
50	RESTORATION OF LAWNS AND PARKWAYS	SQYD	1,600
51	TEMPORARY HOT–MIX ASPHALT PAVEMENT	SQYD	100
52	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	5,500
53	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3–INCH	SQYD	900
54	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH	SQYD	200
55	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	350
56	GRAVEL SHOULDER RESTORATION	FOOT	150
57	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	400
58	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	1,900
59	DETECTABLE WARNINGS	SQFT	10
60	PAVEMENT MARKING – LINE, 4–INCH (THERMOPLASTIC)	FOOT	630
61	PAVEMENT MARKING – LINE, 6–INCH (THERMOPLASTIC)	FOOT	10
62	PAVEMENT MARKING – LINE, 12–INCH (THERMOPLASTIC)	FOOT	20
63	PAVEMENT MARKING – LINE, 24–INCH (THERMOPLASTIC)	FOOT	30
64	PAVEMENT MARKING – LETTERS AND SYMBOLS	SQFT	20
65	PAVEMENT MARKING REMOVAL, WATER BLASTING	SQFT	140
66	TREE ROOT PRUNING	EACH	12
67	TREE TRIMMING	LSUM	1
68	TREE REMOVAL, 6–INCH THROUGH 12–INCH	EACH	1
69	DUST CONTROL	DAY	45
70	ROCK EXCAVATION	CUYD	50
71	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	87
72	SOIL TESTS FOR CONTAMINANTS	EACH	10
73	CONTAMINATED WASTE DISPOSAL	CUYD	87
	PART B – SEWER IMPROVEMENTS		
74	EXCAVATION AND POINT REPAIR – NO. 1	LSUM	1
75	EXCAVATION AND POINT REPAIR – NO. 2	LSUM	1
76	EXCAVATION AND POINT REPAIR – NO. 3	LSUM	1

FINAL DESIGN
FOR BIDDING

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	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 221587.40

DESIGNED – BSG
DRAWN – JJS
CHECKED – MJF
DATE – 10/12/2023

TOTAL SHEETS: 29 | SHEET NO.: 4

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NOTE:
MIDLAND AVENUE WATER MAIN TO BE REPLACED AS PART OF IDOT PROJECT 62R89. 8" NON-PRESSURE CONNECTION TO BE COORDINATED WITH THE CITY OR ENGINEER

REMOVE EXISTING FIRE HYDRANT

87 L.F. OF 8" RJT WATER MAIN
9 L.F. OF 6" RJT WATER MAIN
(1) 6" NON-PRESSURE CONNECTION
(1) 8" GATE VALVE IN 4' DIA. VAULT
(1) 45° 8" BEND
(1) 8" x 6" REDUCER
(1) 6" 45° BEND
(1) 6" SLEEVE

101 L.F. OF 8" WATER MAIN

WATER SERVICE LINE (TYP.)

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

108 L.F. OF 8" WATER MAIN

80 L.F. OF 8" RJT WATER MAIN
(1) 8" GATE VALVE IN 4' DIA. VAULT
(1) 8" x 8" TEE

ABANDON EXISTING 6" WATER MAIN

MIDLAND AVENUE

KINSEY AVENUE

DAVIS AVENUE

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

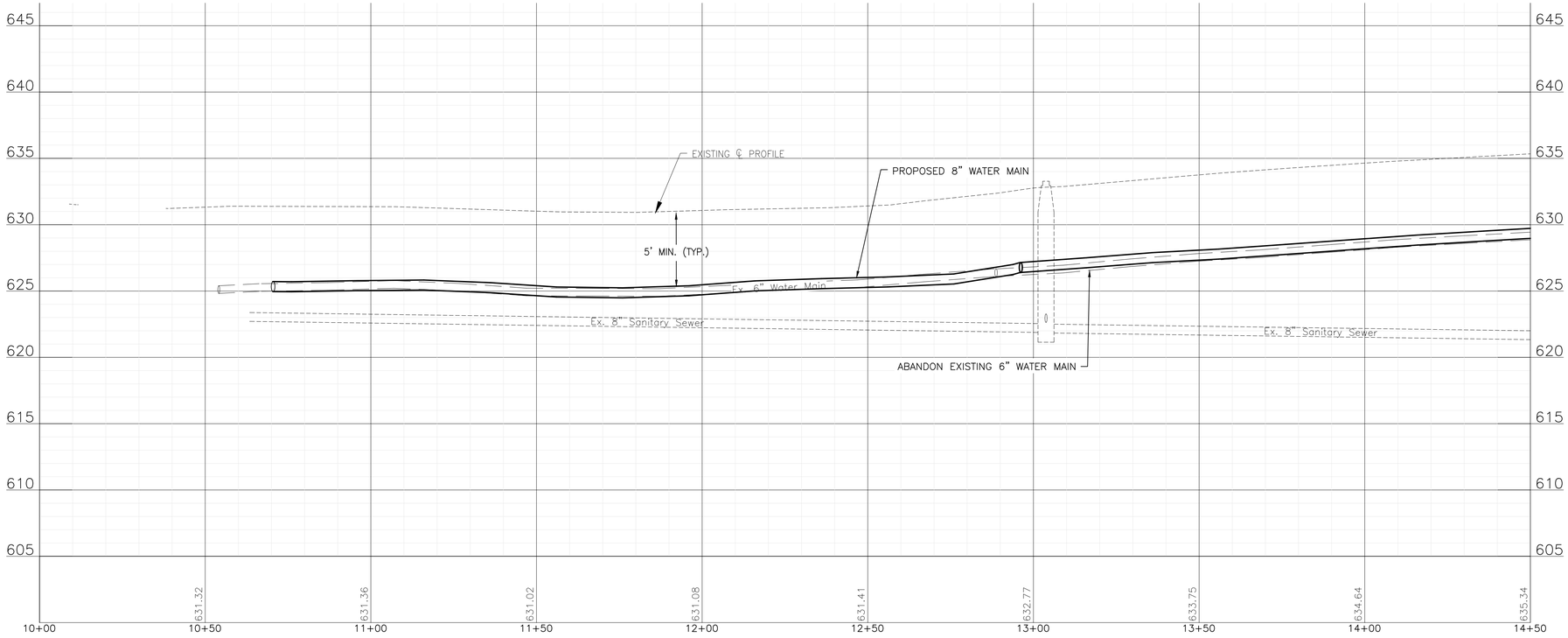
SEE SHEET 9
FOR DESCRIPTION OF WATER MAIN WORK

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.

FOR CONTINUATION SEE SHEET 9

SEE SHEET 6

MATCH LINE STA. 14+50



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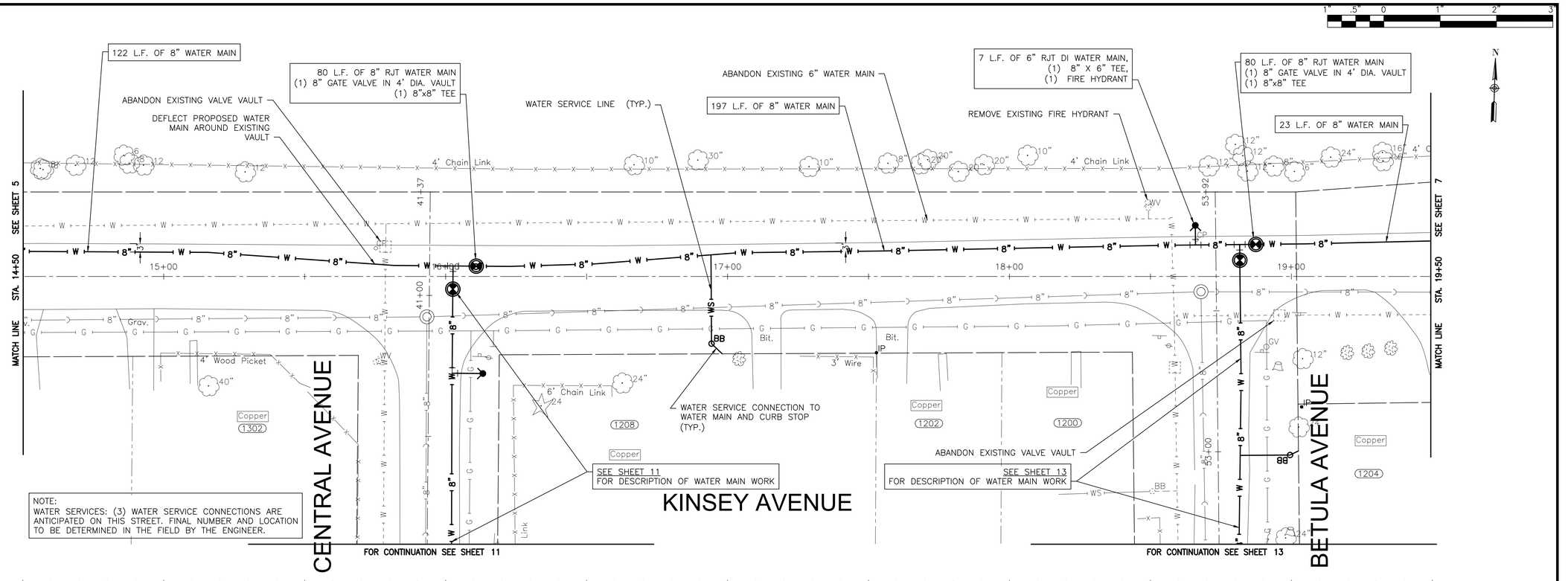
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		REVISED –	
		REVISED –	
		REVISED –	

KINSEY AVENUE STA. 10+00 TO STA. 14+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

DESIGNED – BSG	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	29	5
CHECKED – MJF		
DATE – 10/12/2023		

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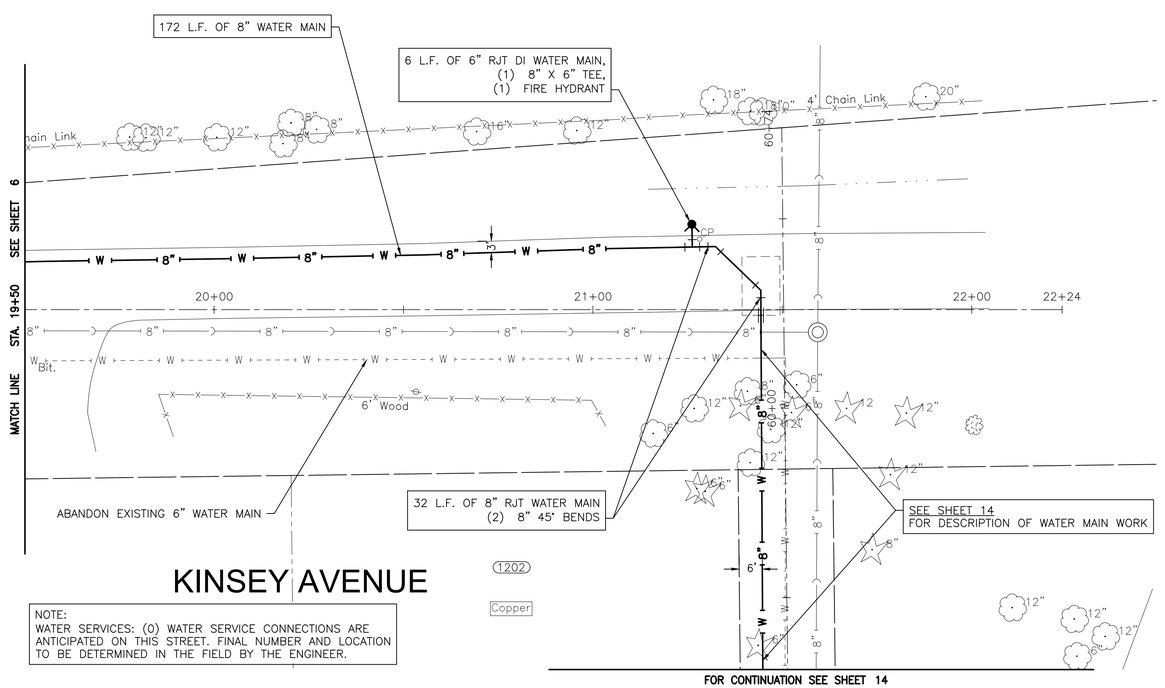
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		REVISED –	
		REVISED –	

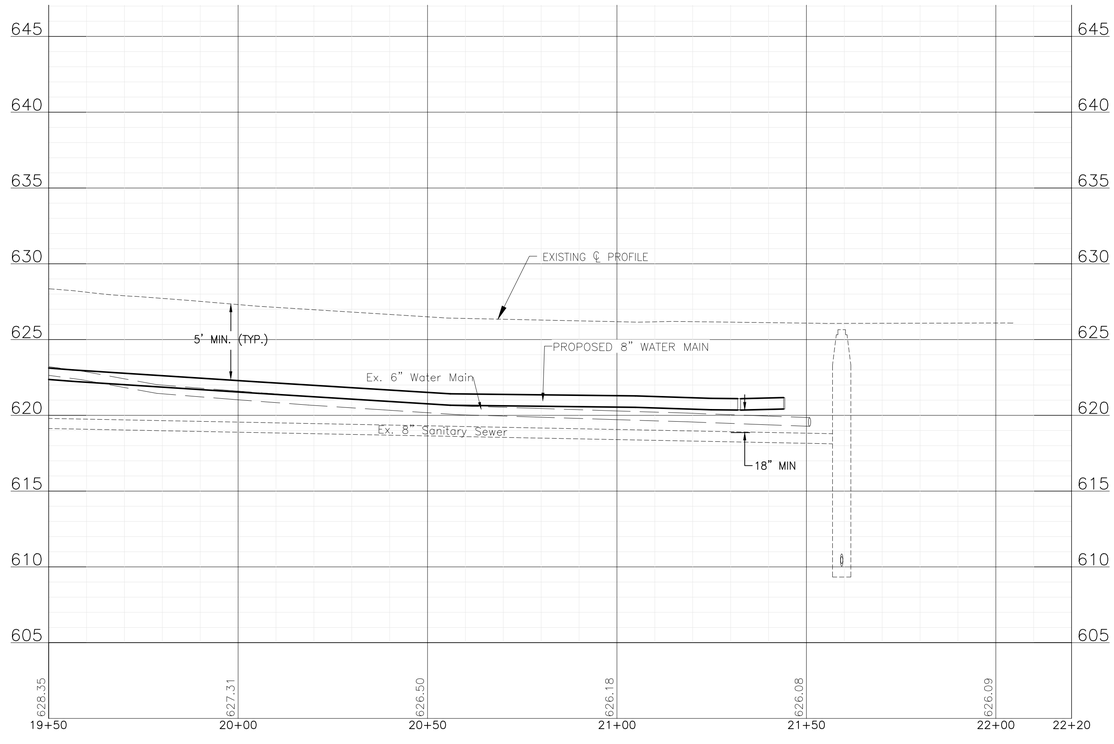
KINSEY AVENUE STA. 14+50 TO STA. 19+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG			
DRAWN – JJS			
CHECKED – MJF		29	6
DATE – 10/12/2023			

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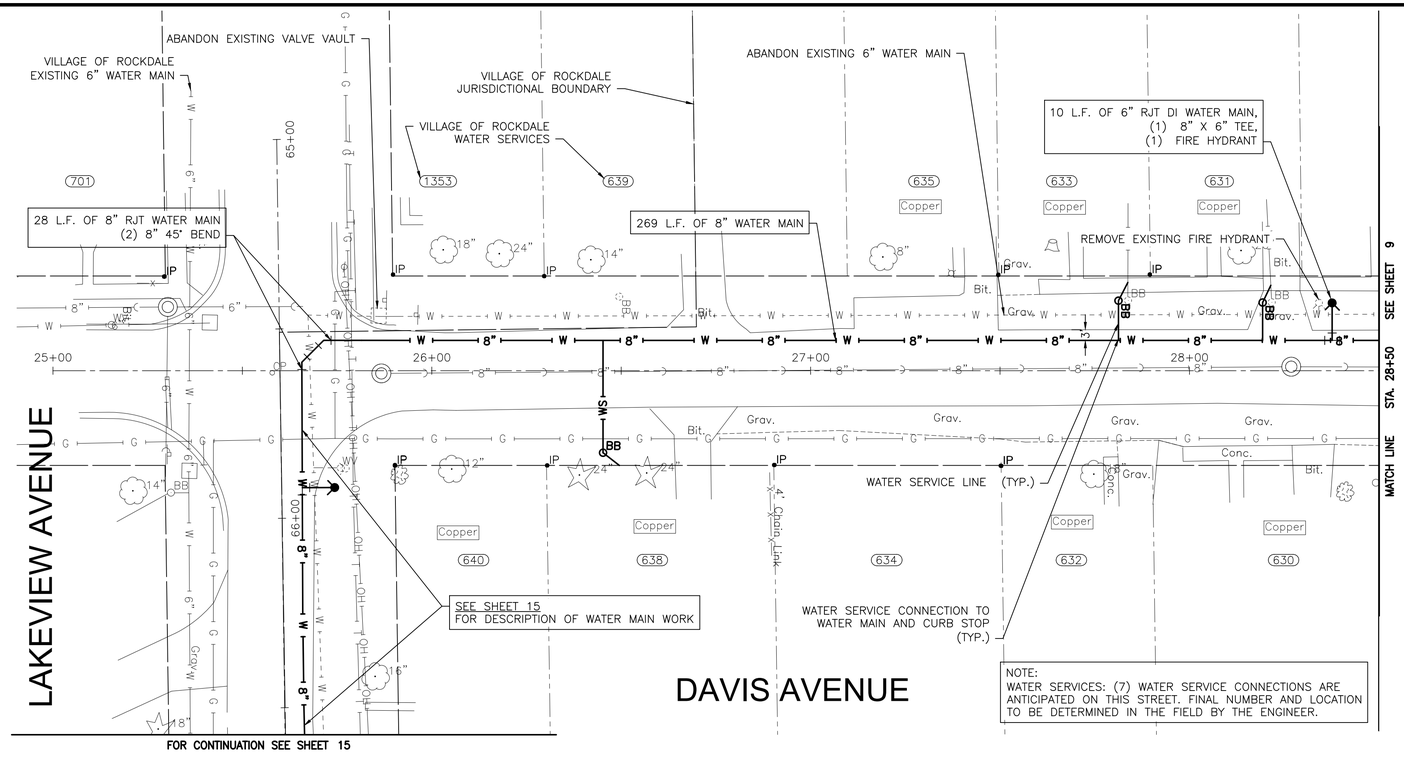


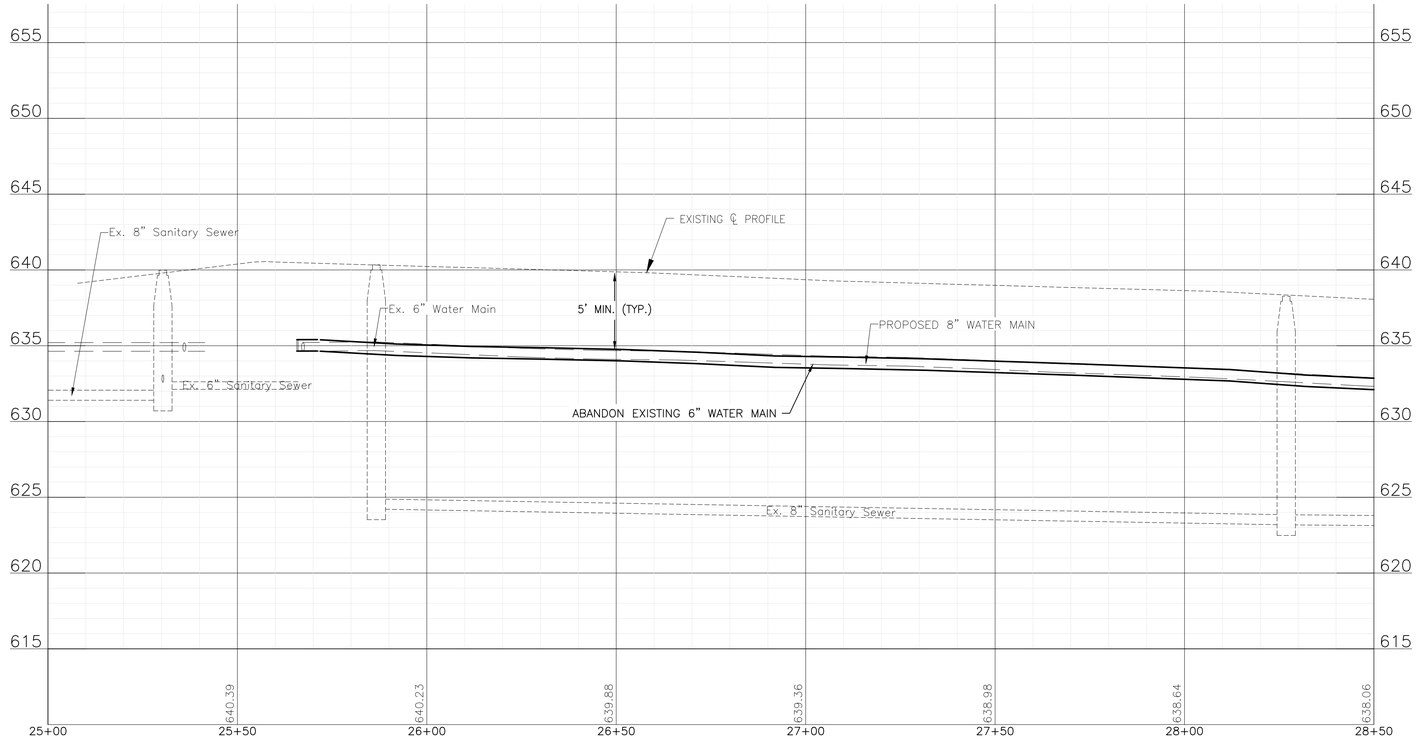


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		REVISED –			
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 221587.40	TOTAL SHEETS: 29 SHEET NO.: 7

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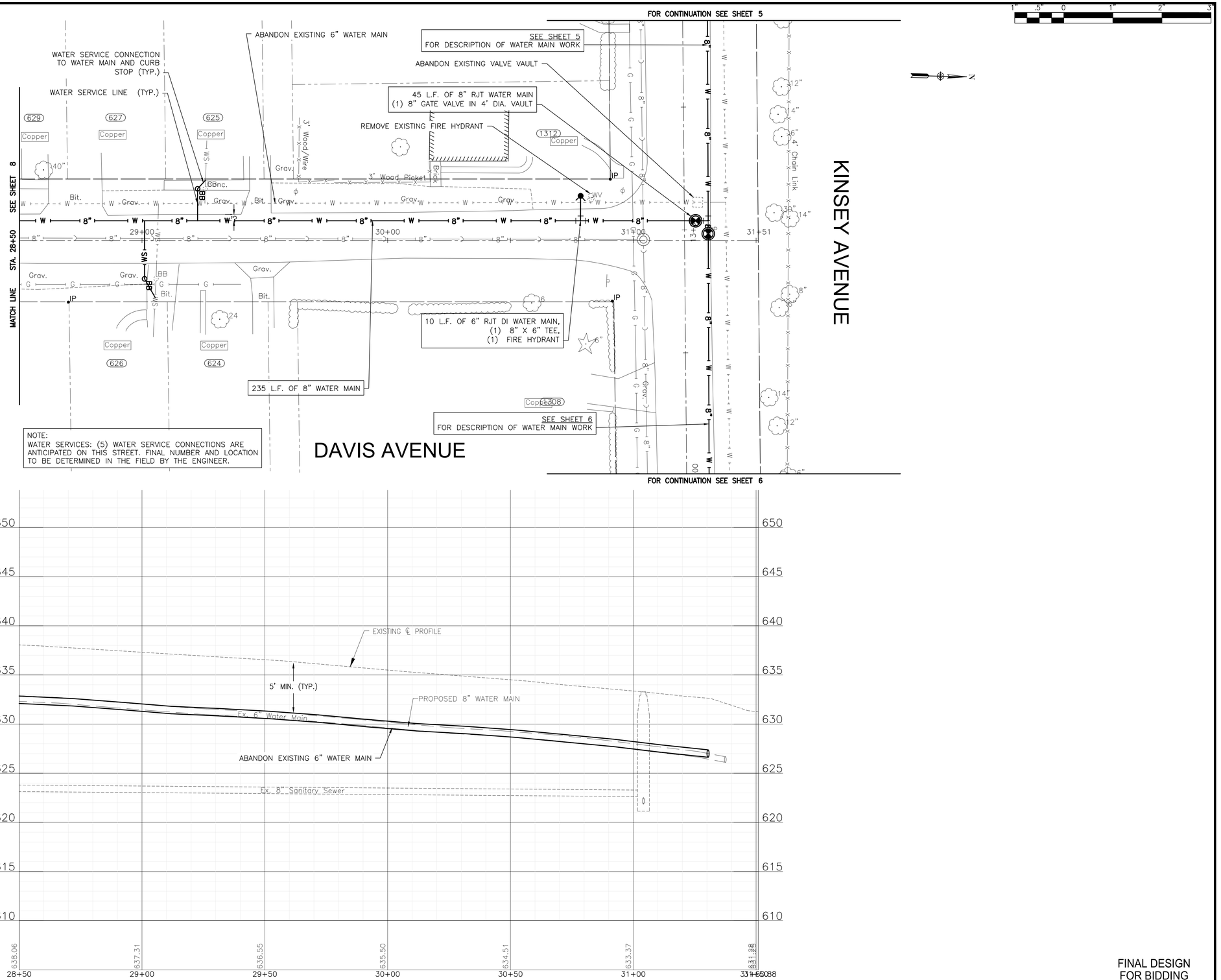
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WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

DAVIS AVENUE STA. 25+00 TO STA. 28+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	8
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			



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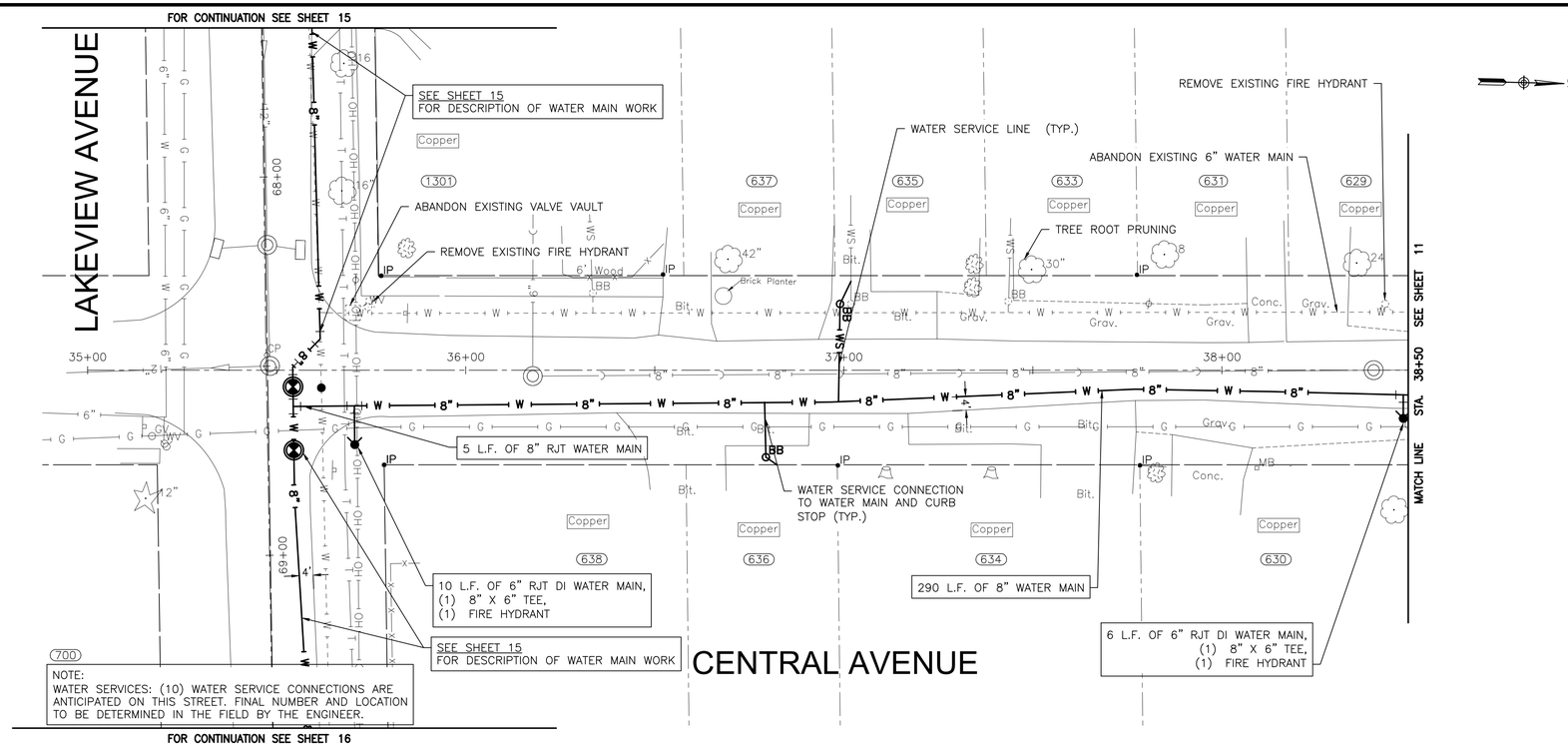
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WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

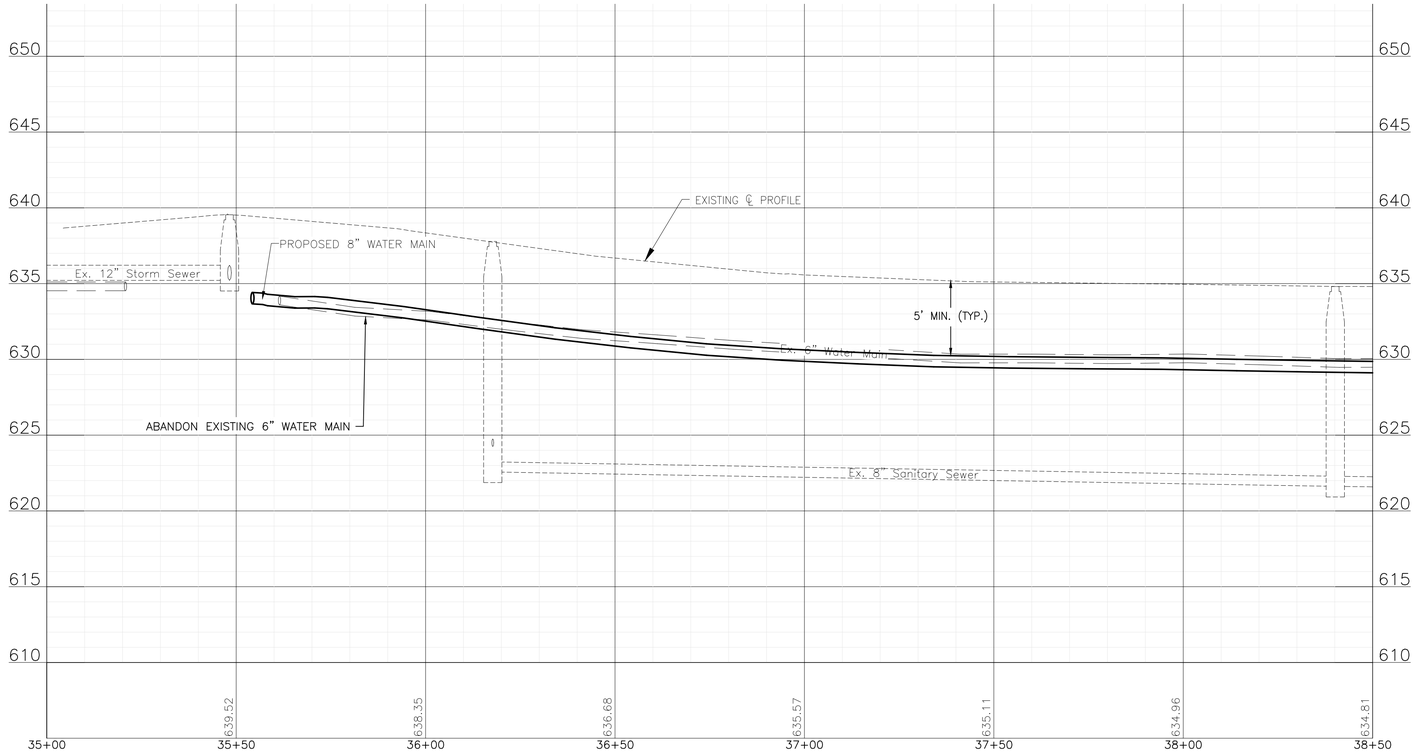
DAVIS AVENUE STA. 28+50 TO STA. 32+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG			
DRAWN – JJS		29	9
CHECKED – MJF			
DATE – 10/12/2023			

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		REVISED –	
		REVISED –	

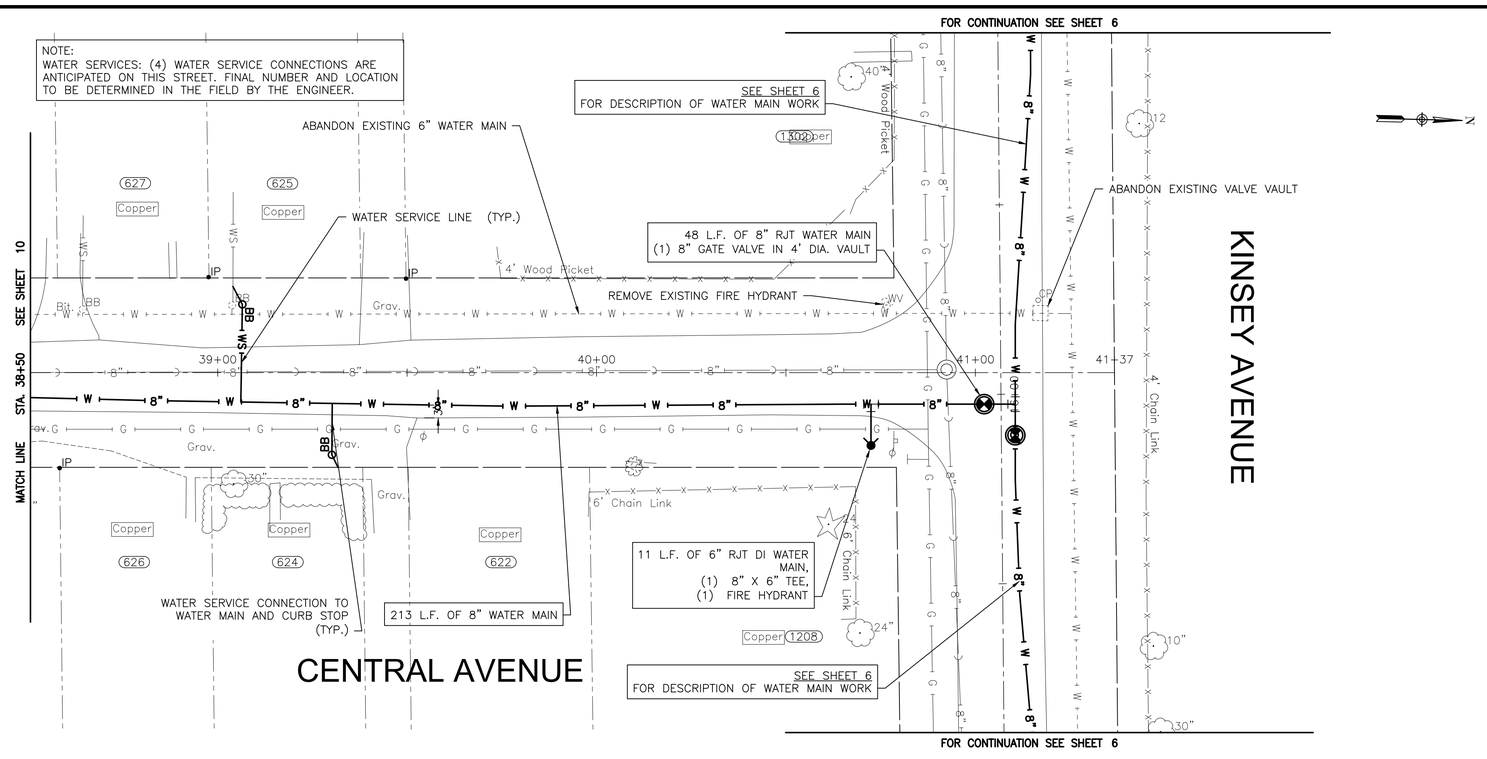
CENTRAL AVENUE STA. 35+00 TO STA. 38+50 PLAN AND PROFILE

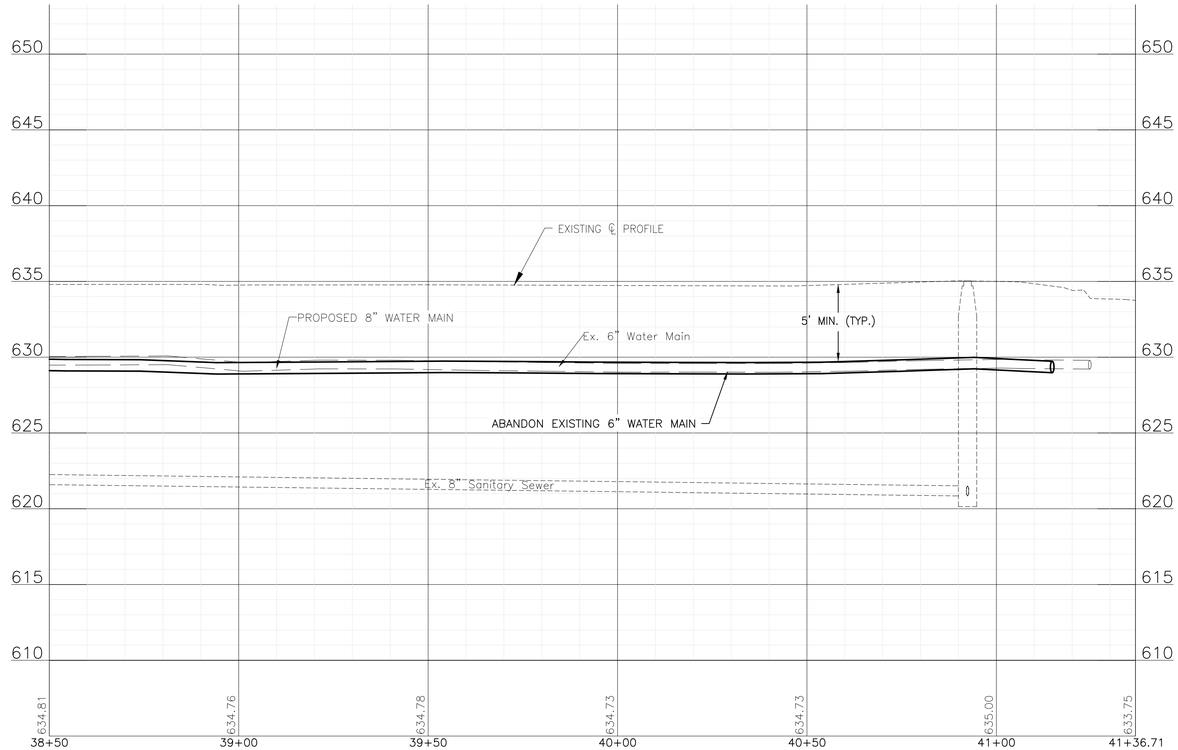
SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	10
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			

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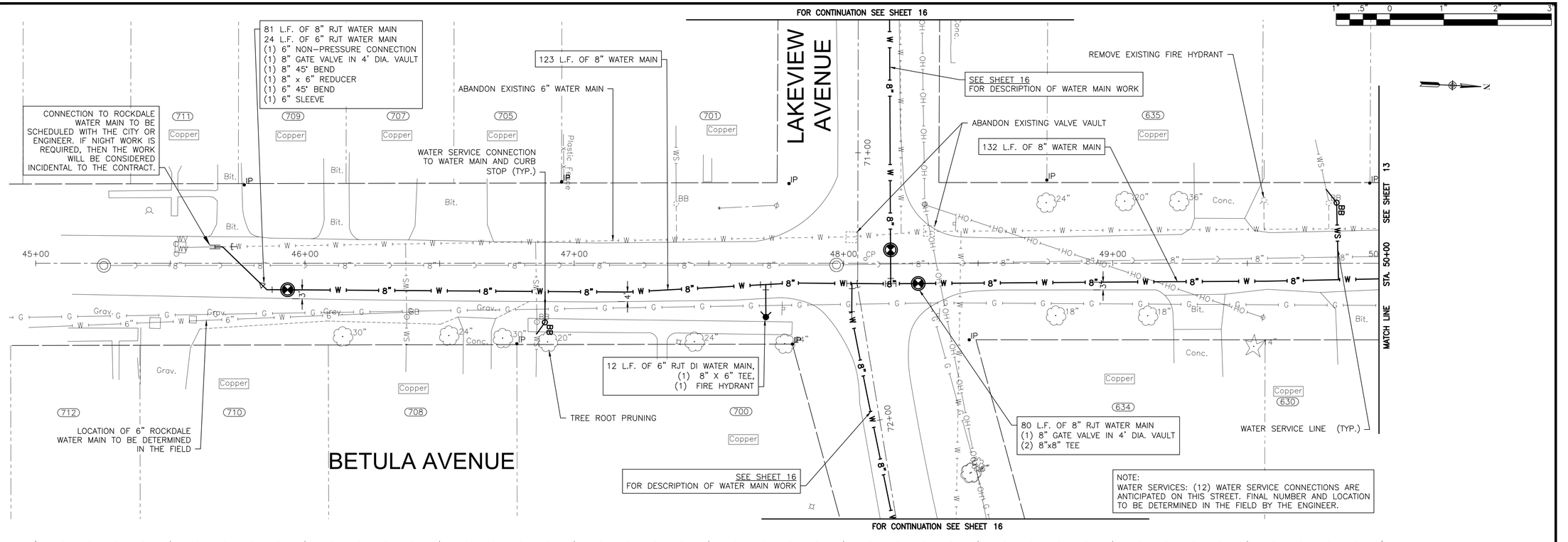
CONSULTANTS	REVISED –
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	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

CENTRAL AVENUE STA. 38+50 TO STA. 41+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	11
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			



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	REVISED –

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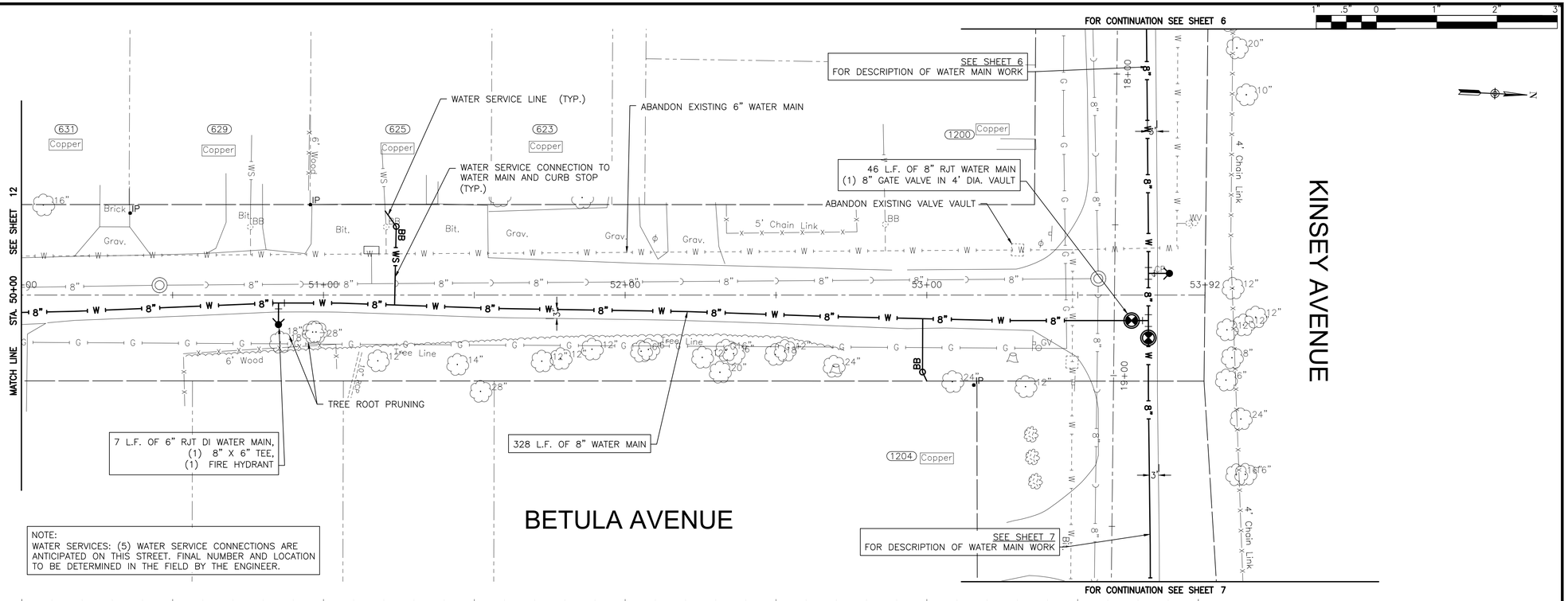
CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

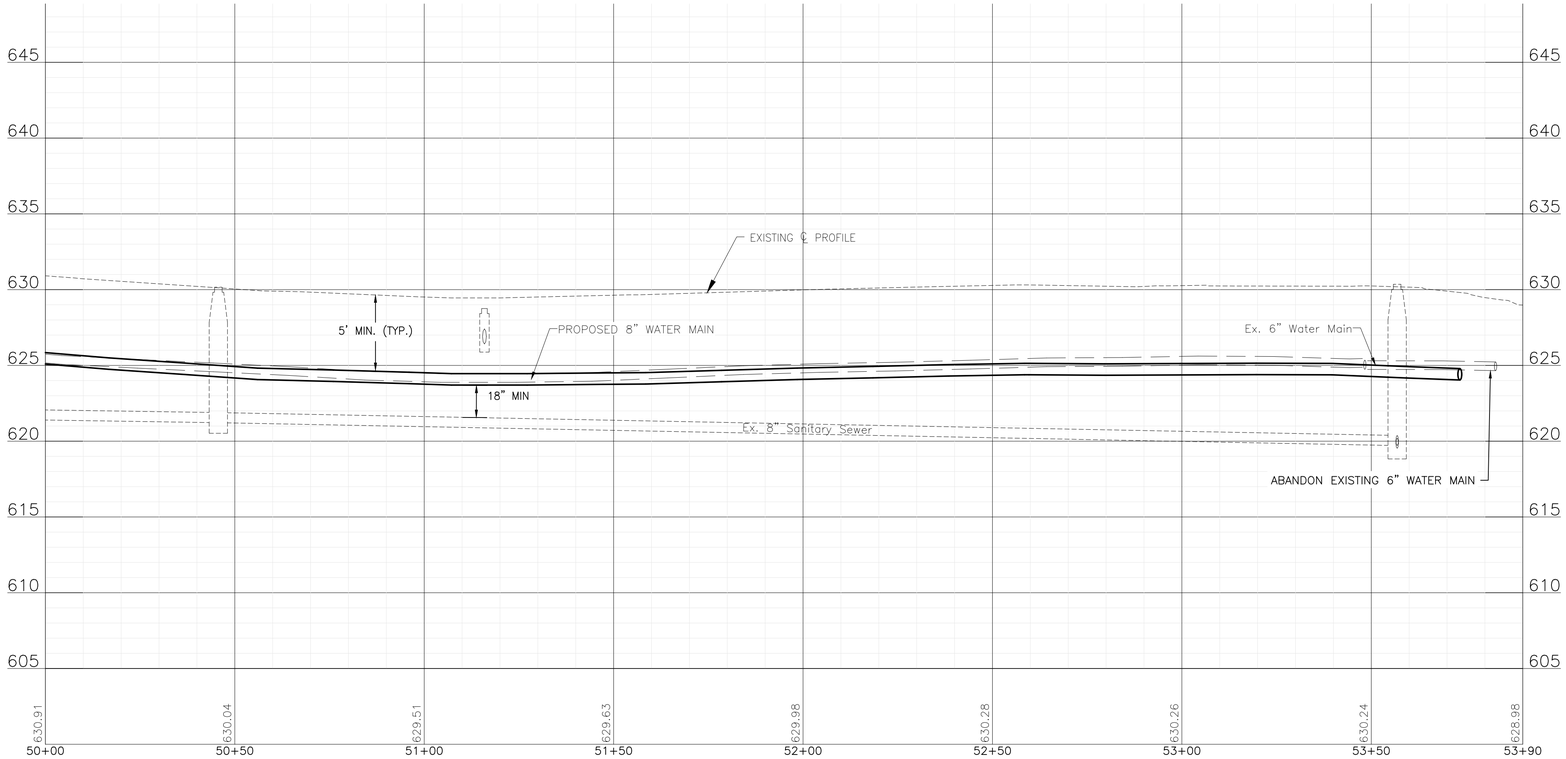
BETULA AVENUE STA. 45+00 TO STA. 50+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	12
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			

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CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

BETULA AVENUE STA. 50+00 TO STA. 54+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

DESIGNED – BSG	
DRAWN – JJS	
CHECKED – MJF	
DATE – 10/12/2023	

TOTAL SHEETS	SHEET NO.
29	13

FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 7

LAKEVIEW AVENUE

KINSEY AVENUE

OAKLEY AVENUE

SEE SHEET 16
FOR DESCRIPTION OF WATER MAIN WORK

48 L.F. OF 8" RJT WATER MAIN
(1) 8" GATE VALVE IN 4' DIA. VAULT

REMOVE EXISTING FIRE HYDRANT

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

WATER SERVICE LINE
(TYP.)

WATER SERVICE LOCATION TO BE VERIFIED
DURING CONSTRUCTION BY THE ENGINEER

NO WATER SERVICE

357 L.F. OF 8" RJT WATER MAIN
INSTALLED BY HDD

SEE SHEET 7
FOR DESCRIPTION OF WATER MAIN WORK

1 L.F. OF 8" RJT WATER MAIN,
(1) 8" SLEEVE

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

ABANDON EXISTING VALVE VAULT

15 L.F. OF 8" WATER MAIN,
(1) 8" SLEEVE

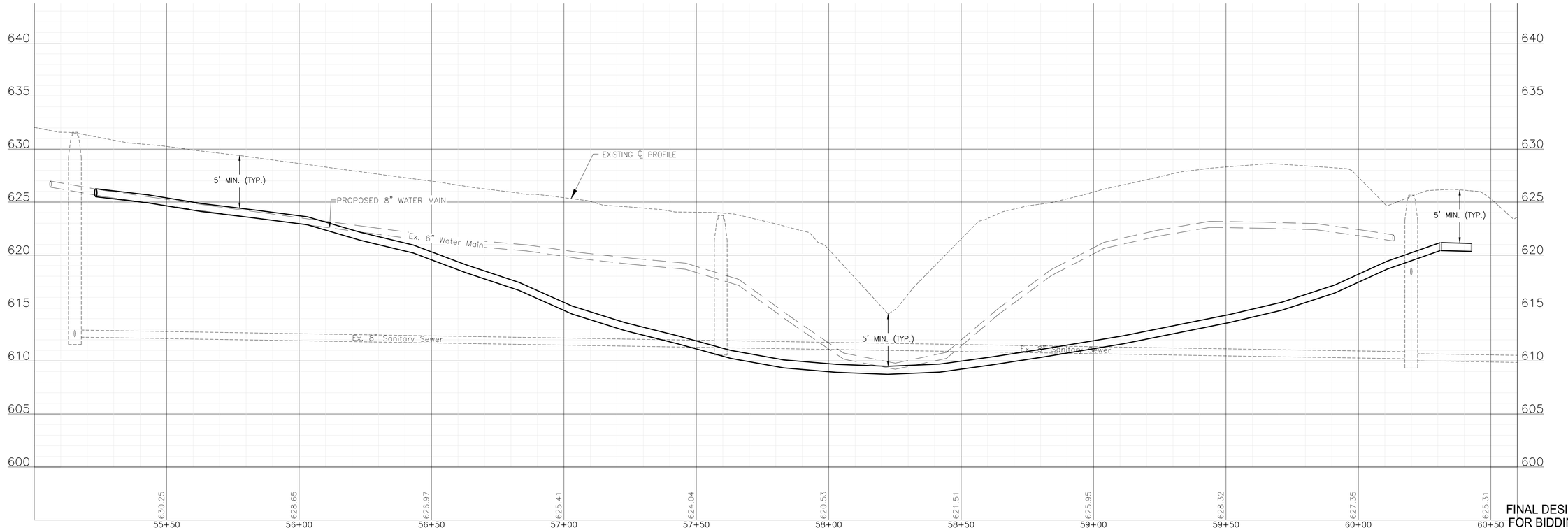
RECOMMENDED LAUNCHING/RECIEVING PIT

81 L.F. OF 8" WATER MAIN,

ABANDON EXISTING 6" WATER MAIN

RECOMMENDED LAUNCHING/RECIEVING PIT

NOTE:
WATER SERVICES: (4) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

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	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

LAKEVIEW AVENUE STA. 55+00 TO STA. 61+00 PLAN AND PROFILE

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

PROJECT NO: 221587.40

DESIGNED – BSG	
DRAWN – JJS	
CHECKED – MJF	
DATE – 10/12/2023	

TOTAL SHEETS	SHEET NO.
29	14

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FOR CONTINUATION SEE SHEET 8

FOR CONTINUATION SEE SHEET 10

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

REMOVE EXISTING FIRE HYDRANT

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

SEE SHEET 8
FOR DESCRIPTION OF
WATER MAIN WORK

CONTRACTOR TO PROVIDE TEMPORARY BRACING OF UTILITY POLE, CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION

TREE ROOT PRUNING

(1) 8" LINE STOP, LOCATION TO BE DETERMINED IN THE FIELD

SEE SHEET 10
FOR DESCRIPTION OF WATER MAIN WORK

ABANDON EXISTING 6" WATER MAIN

138 L.F. OF 8" WATER MAIN

99 L.F. OF 8" RJT WATER MAIN
(2) 8" GATE VALVE IN 4' DIA. VAULT
(1) 8" x 8" TEE

111 L.F. OF 8" WATER MAIN

109 L.F. OF 8" WATER MAIN

INSTALL PROPOSED 8" WATER MAIN IN SAME TRENCH AS EXISTING 6" WATER MAIN

(2) 8" 45° BENDS

EXISTING 6" WATER MAIN – VILLAGE OF ROCKDALE

VILLAGE OF ROCKDALE JURISDICTIONAL BOUNDARY

VILLAGE OF ROCKDALE JURISDICTIONAL BOUNDARY

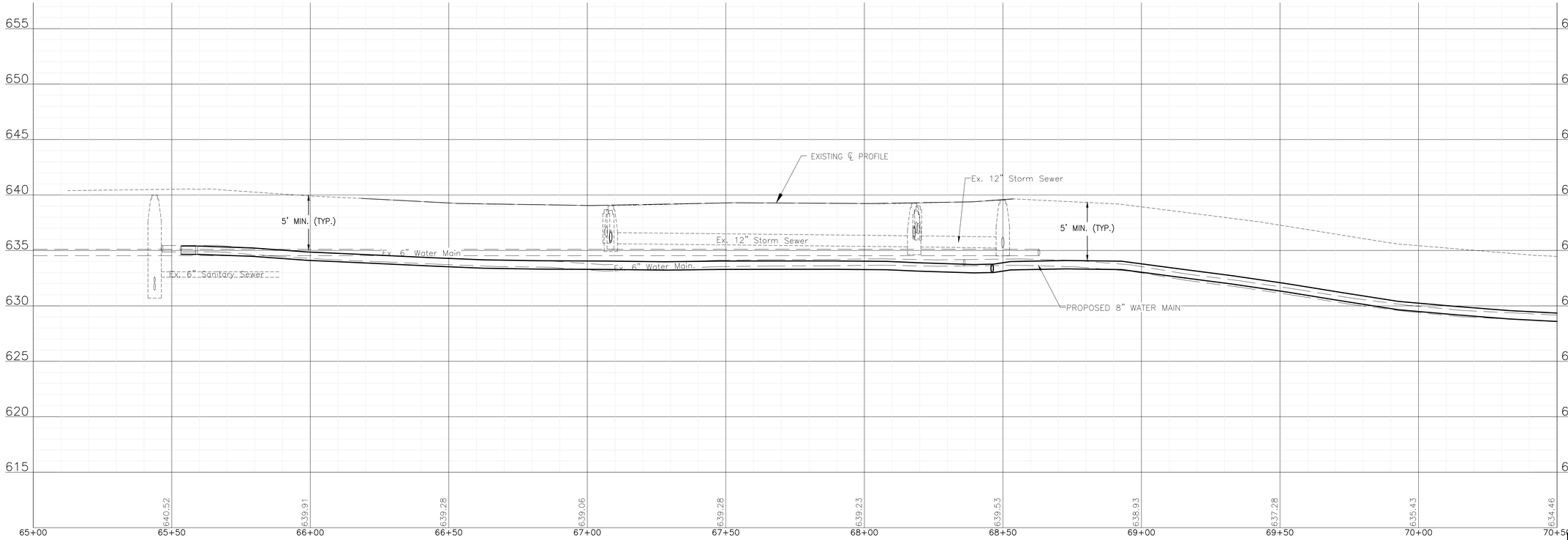
DAVIS AVENUE

CENTRAL AVENUE

LAKEVIEW AVENUE

MATCH LINE STA. 70+50 SEE SHEET 16

NOTE:
WATER SERVICES: (0) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS WEST PARK WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2768-0124

LAKEVIEW AVENUE STA. 65+00 TO STA. 70+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

DESIGNED – BSG
DRAWN – JJS
CHECKED – MJF
DATE – 10/12/2023

TOTAL SHEETS: 29 | SHEET NO.: 15

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 65+00.00
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FOR CONTINUATION SEE SHEET 13

FOR CONTINUATION SEE SHEET 14

1" .5" 0 1" 2" 3"

N

Copper (634)

SEE SHEET 12
FOR DESCRIPTION OF WATER MAIN WORK

ABANDON EXISTING 6" WATER MAIN

WATER SERVICE LINE (TYP.)

53 L.F. OF 8" RJT WATER MAIN
(1) 8" GATE VALVE IN 4' DIA. VAULT

177 L.F. OF 8" WATER MAIN

ABANDON EXISTING VALVE VAULT

Copper (621)

SEE SHEET 14
FOR DESCRIPTION OF WATER MAIN WORK

CONTRACTOR TO PROVIDE TEMPORARY BRACING OF UTILITY POLE, CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION

EXCAVATION AND POINT REPAIR NO. 1

MH #16077

77 L.F. OF 8" WATER MAIN

MH #16079

SEE SHEET 15

MATCH LINE STA. 70+50

46 L.F. OF 8" WATER MAIN

30 L.F. OF 8" RJT WATER MAIN
(1) 8" 11.25° BEND

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

Copper (1208)

87 L.F. OF 8" RJT WATER MAIN
(1) 8" GATE VALVE IN 4' DIA. VAULT
(1) 8" 11.25° BEND
(1) 8" x 8" TEE
(1) 8" 22.5° BEND

Copper (711)

49 L.F. OF 8" WATER MAIN

10 L.F. OF 8" RJT WATER MAIN
(1) 8" 22.5° BEND

SEE SHEET 17
FOR DESCRIPTION OF WATER MAIN WORK

Copper (701)

700 Copper

SEE SHEET 12
FOR DESCRIPTION OF WATER MAIN WORK

BETULA AVENUE

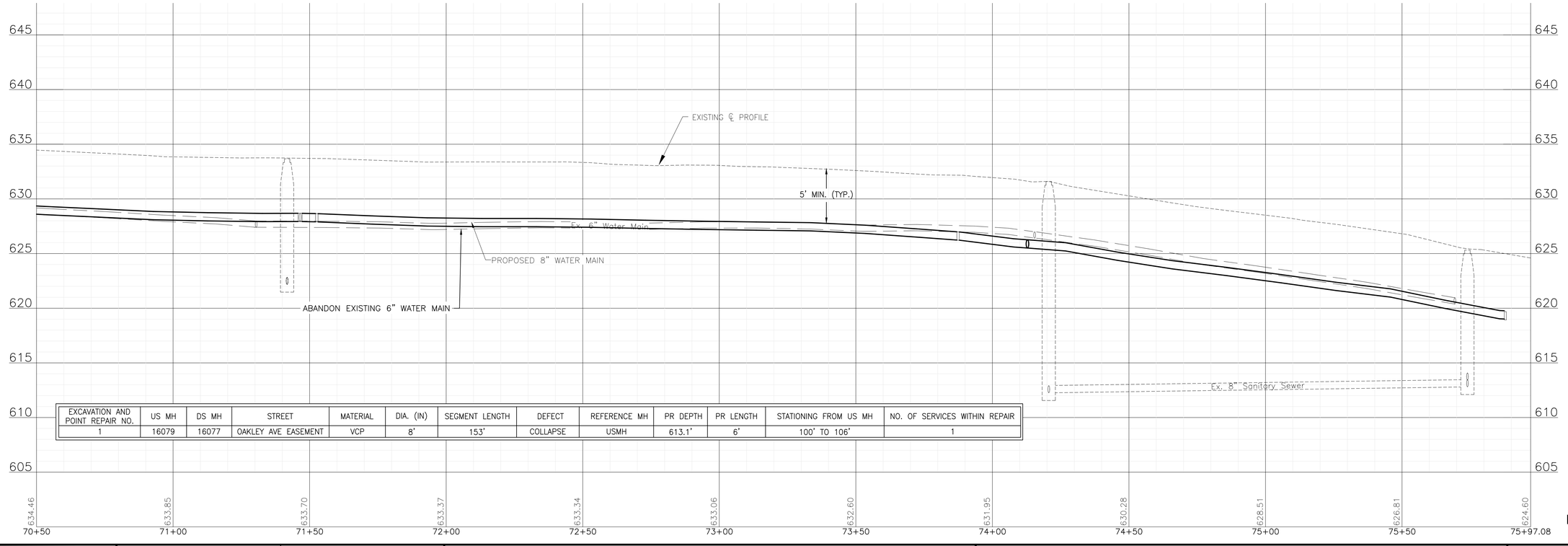
LAKEVIEW AVENUE

OAKLEY AVENUE

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

FOR CONTINUATION SEE SHEET 12

FOR CONTINUATION SEE SHEET 17



EXCAVATION AND POINT REPAIR NO.	US MH	DS MH	STREET	MATERIAL	DIA. (IN)	SEGMENT LENGTH	DEFECT	REFERENCE MH	PR DEPTH	PR LENGTH	STATIONING FROM US MH	NO. OF SERVICES WITHIN REPAIR
1	16079	16077	OAKLEY AVE EASEMENT	VCP	8"	153'	COLLAPSE	USMH	613.1'	6'	100' TO 106'	1

FINAL DESIGN
FOR BIDDING

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 70+50.00
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	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

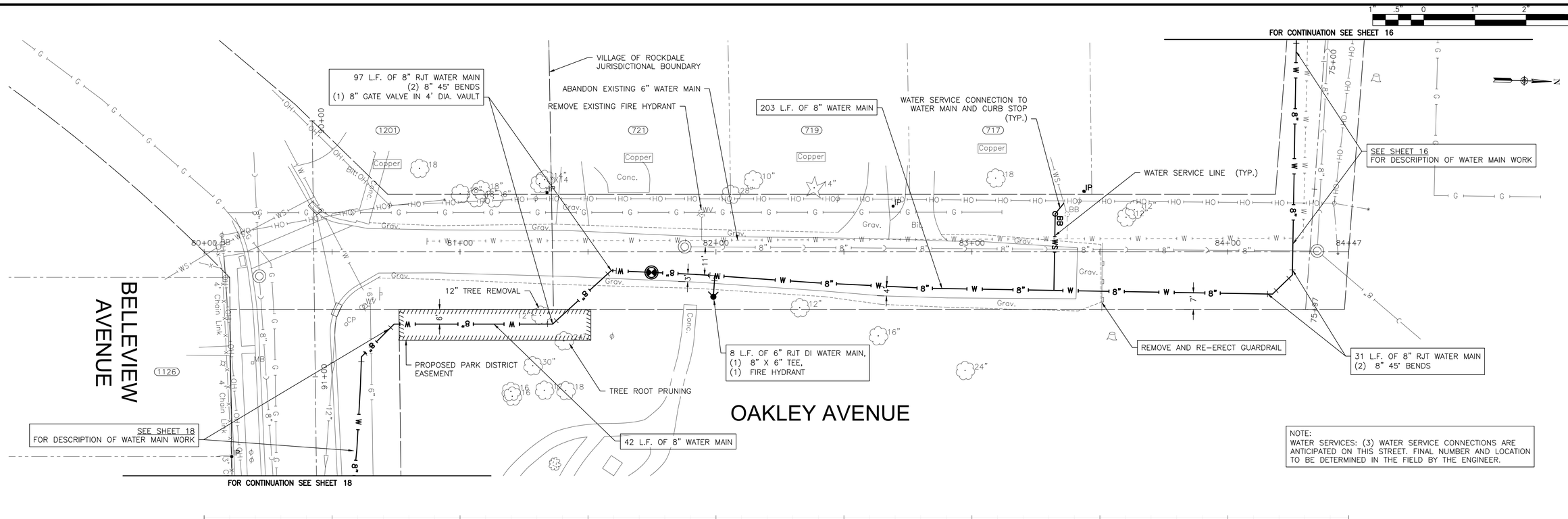
LAKEVIEW AVENUE STA. 70+50 TO STA. 76+00 PLAN AND PROFILE

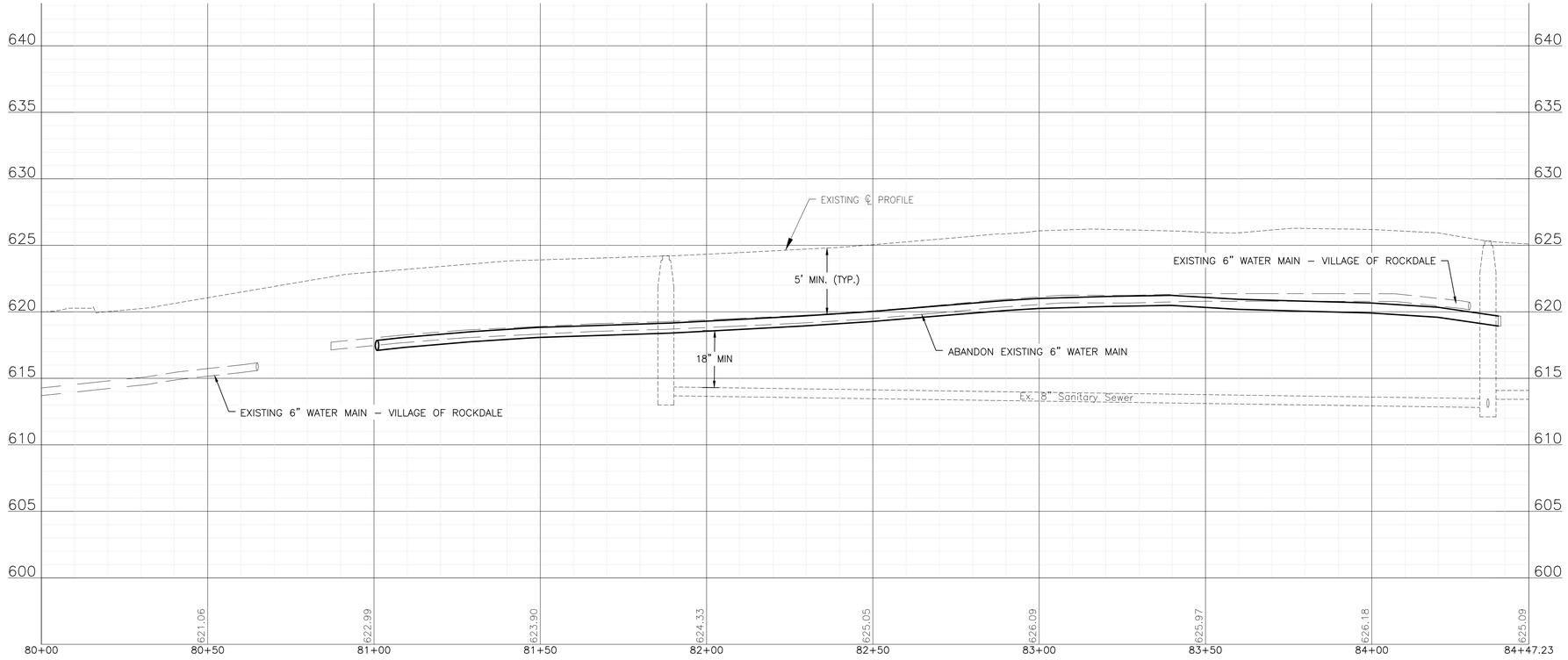
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

DESIGNED – BSG	
DRAWN – JJS	
CHECKED – MJF	
DATE – 10/12/2023	

TOTAL SHEETS	SHEET NO.
29	16





FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS WEST PARK WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2768-0124	OAKLEY AVENUE STA. 80+00 TO STA. 85+00 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 221587.40

DESIGNED – BSG	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS	29	17	
CHECKED – MJF			
DATE – 10/12/2023			

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FOR CONTINUATION SEE SHEET 17

OAKLEY AVENUE

SEE SHEET 17
FOR DESCRIPTION OF WATER MAIN WORK

REMOVE AND REPLACE SIGN

EXISTING GUARDRAIL AND CONCRETE SIDEWALK SLAB TO REMAIN IN PLACE; AVOID IMPACTING STRUCTURES. PROVIDE PROTECTION DURING CONSTRUCTION AND UTILIZE TIGHT SHEETING AS NECESSARY (INCIDENTAL).

PROPOSED PARK DISTRICT EASEMENT

396 L.F. OF 8" WATER MAIN

SEE SHEET 19

MATCH LINE STA. 95+00

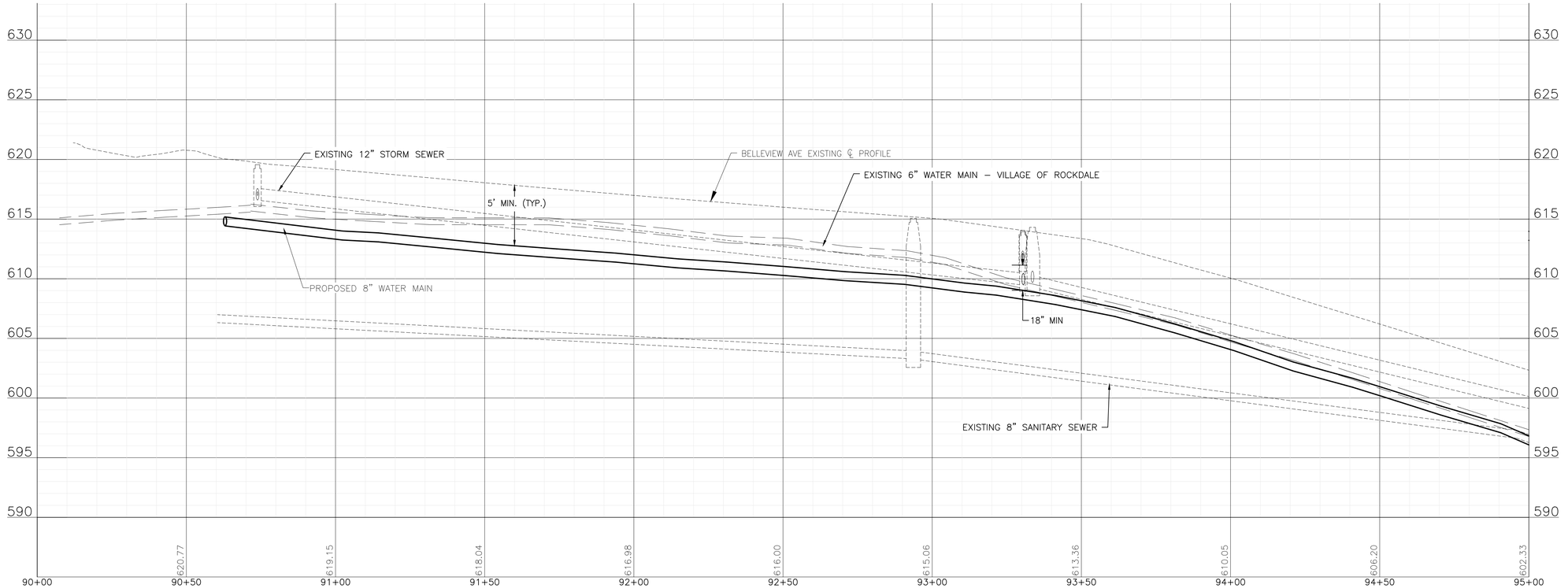
VILLAGE OF ROCKDALE
JURISDICTIONAL BOUNDARY

40 L.F. OF 8" RJT WATER MAIN,
(1) 8" 45° BEND
(1) 8" 22.5° BEND

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

BELLEVIEW AVENUE

NOTE:
WATER SERVICES: (0) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FINAL DESIGN
FOR BIDDING

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 90+00.00
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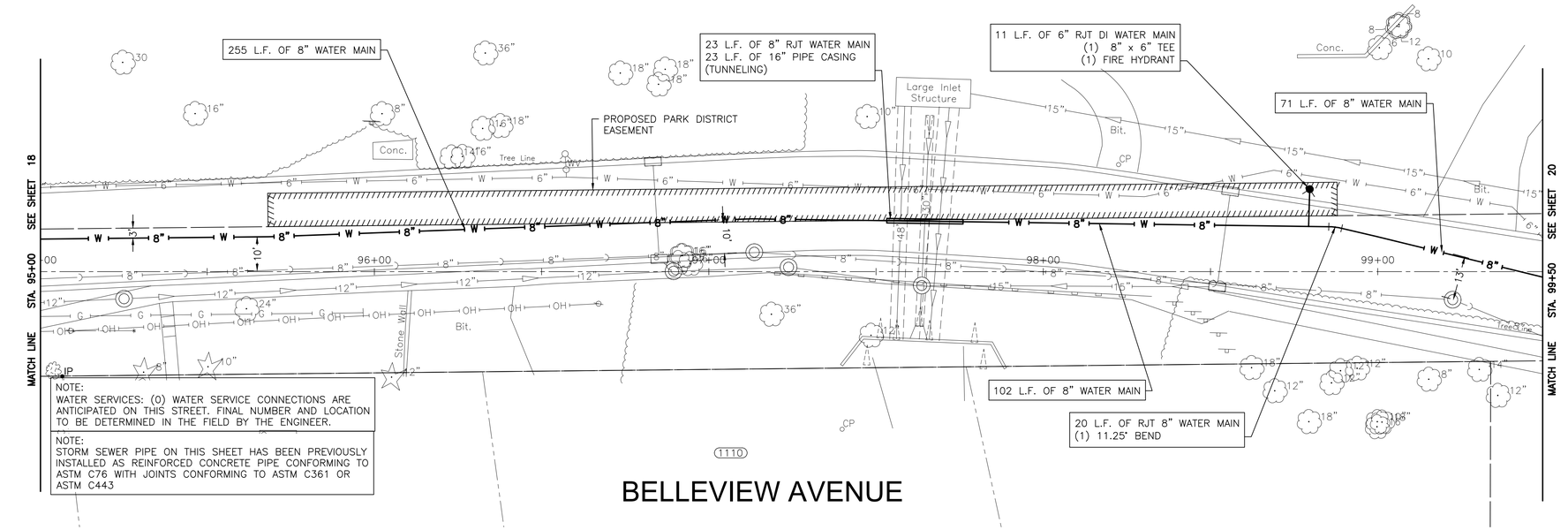
CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

LAKEVIEW AVENUE STA. 90+00 TO STA. 95+00 PLAN AND PROFILE

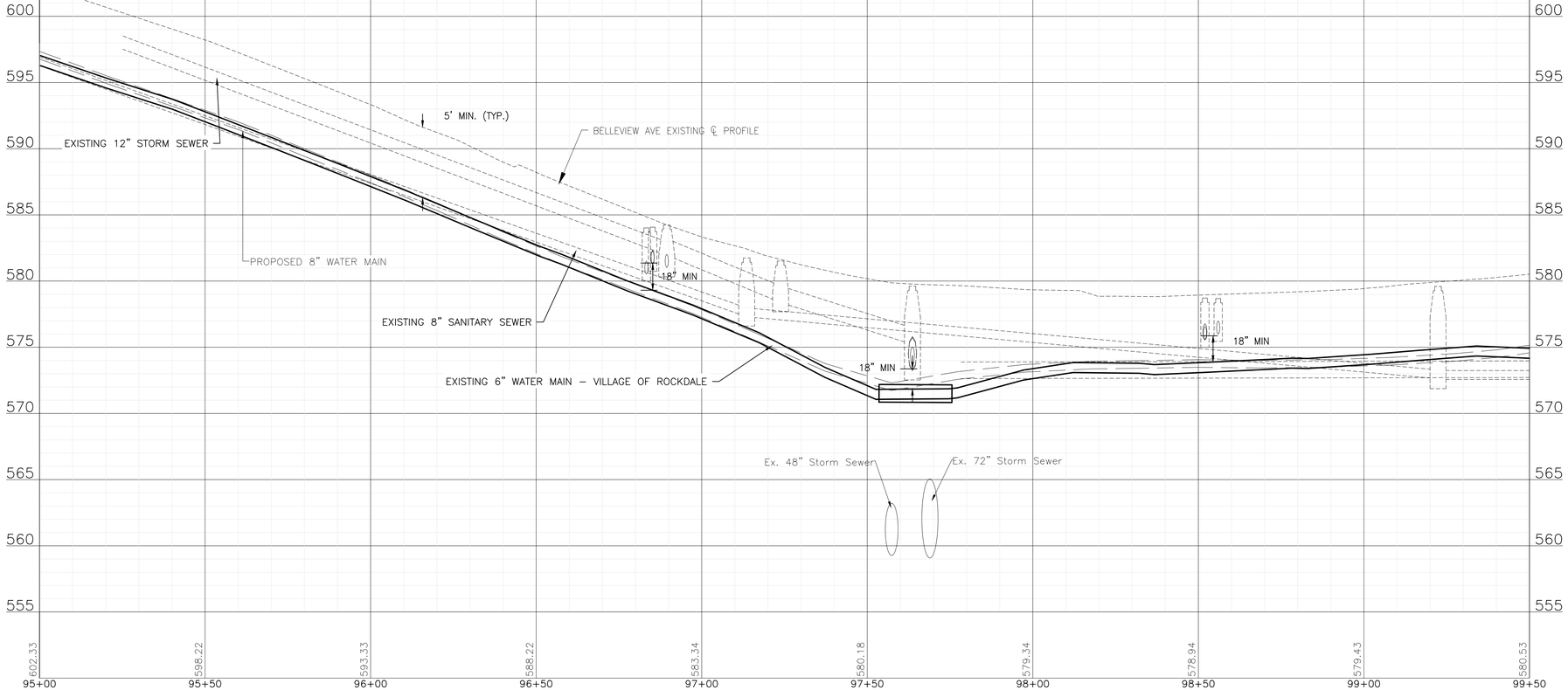
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	18
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			



NOTE:
WATER SERVICES: (0) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS SHEET 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

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

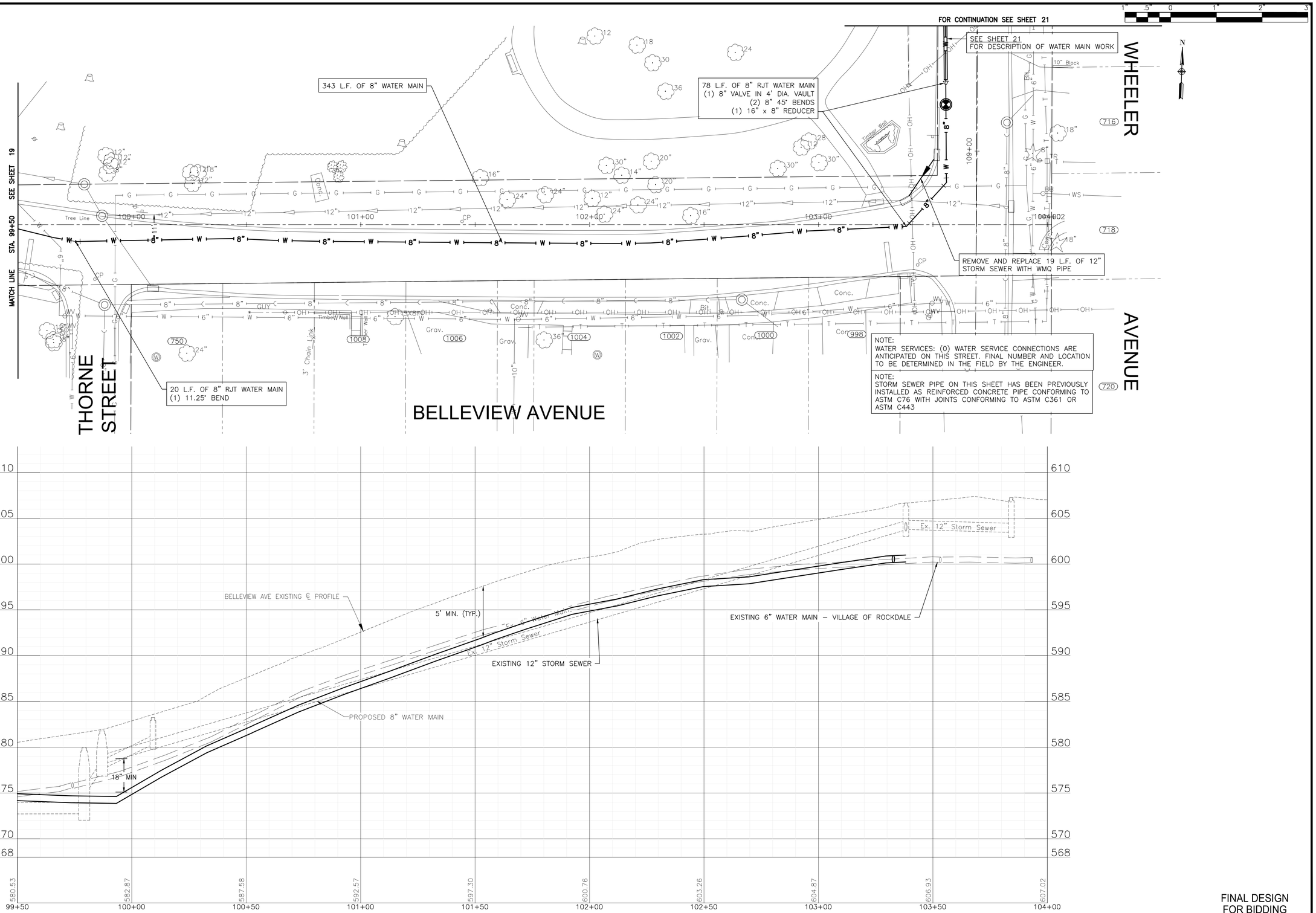
CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

LAKEVIEW AVENUE STA. 95+00 TO STA. 99+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	19
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 95+00.00
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		REVISED –			DRAWN – JJS	
		REVISED –			CHECKED – MJF	
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 221587.40	DATE – 10/12/2023	

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 99+50.00
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FOR CONTINUATION SEE SHEET 20

BELLEVIEW AVENUE

SEE SHEET 20
FOR DESCRIPTION OF WATER MAIN WORK

7 L.F. OF 6" RJT DI WATER MAIN,
(1) 16" X 6" TEE,
(1) FIRE HYDRANT

100 L.F. OF 16" RJT DI WATER MAIN

39 L.F. OF 16" DI WATER MAIN

149 L.F. OF 16" DI WATER MAIN

30 L.F. OF 16" RJT DI WATER MAIN

59 L.F. OF 16" RJT DI WATER MAIN
(2) 45° 16" BENDS

SEE SHEET 22

STA. 113+00 MATCH LINE

108+00 109+00 110+00 111+00 112+00 113

VILLAGE OF ROCKDALE
JURISDICTIONAL BOUNDARY

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

716 714

EXISTING 6" WATER MAIN – VILLAGE OF ROCKDALE

PARKVIEW AVENUE

710

VILLAGE OF ROCKDALE
JURISDICTIONAL BOUNDARY

708

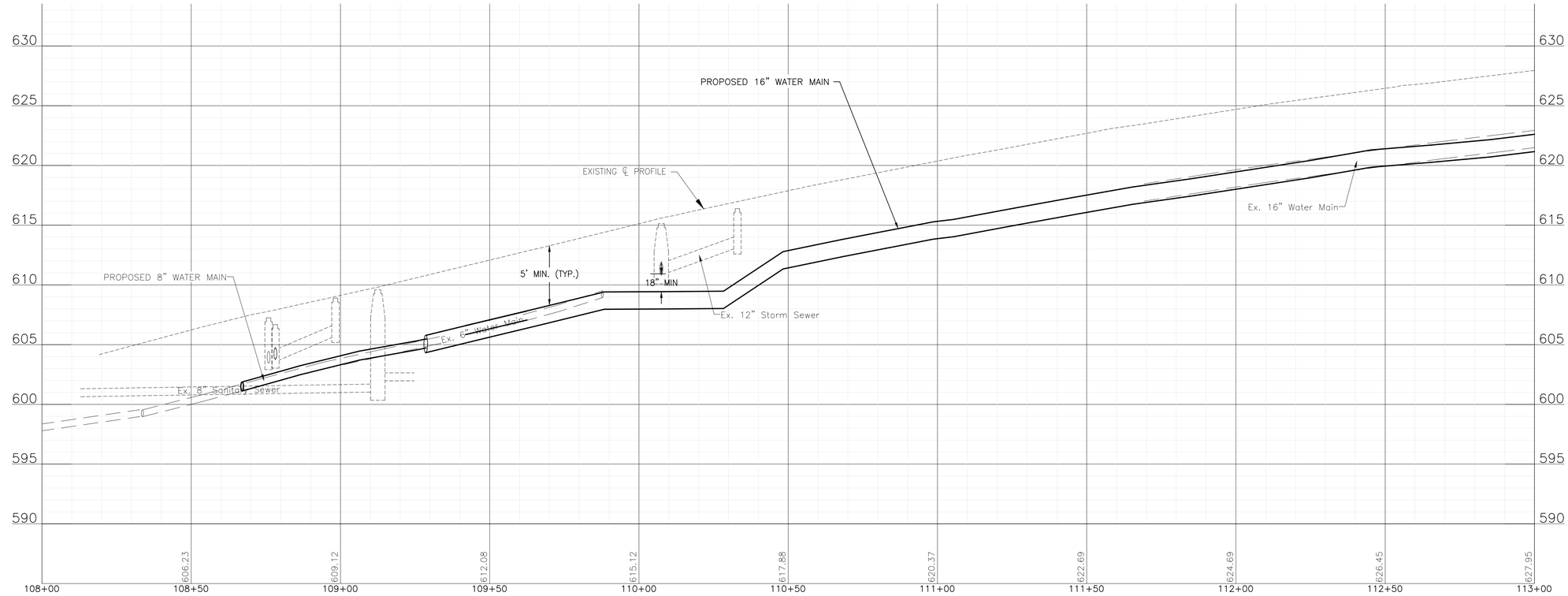
WHEELER AVENUE

706 704 702 700

WATER SERVICE LINE (TYP.)

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

ABANDON EXISTING 16" WATER MAIN



FINAL DESIGN
FOR BIDDING

P:\JOLTC\221587-2024 WATER MAIN SURVY\CADD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 108+00.00
Plotted: 10/10/2023 8:28 AM By: ANACINO
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CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

WHEELER AVENUE STA. 108+00 TO STA. 113+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	21
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			

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

WEST PARK

100 L.F. OF 16" RJT DI WATER MAIN
(1) 16" VALVE IN 5' DIA. VAULT
(1) 16" x 8" TEE

1.5" SERVICE

211 L.F. OF 16" DI WATER MAIN

36 L.F. OF 8" RJT WATER MAIN
(1) 8" NON-PRESSURE CONNECTION
(1) 8" GATE VALVE IN 4' DIA. VAULT
(1) 16" x 8" TEE
(1) 8" SLEEVE

16 L.F. OF 6" RJT DI WATER MAIN,
(1) 16" X 6" TEE,
(1) FIRE HYDRANT

ABANDON EXISTING 16" WATER MAIN

ABANDON EXISTING VALVE

ABANDON EXISTING VALVE BOX

178 L.F. OF 16" RJT DI WATER MAIN
(1) 16" VALVE IN 5' DIA. VAULT
(1) 16" 45° BEND
(1) 16" NON-PRESSURE CONNECTION
(1) 16" SLEEVE

WATER SERVICE LINE (TYP.)

WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP

REMOVE EXISTING FIRE HYDRANT

SEE SHEET 23
FOR DESCRIPTION OF WATER MAIN WORK

CONTRACTOR TO LOCATE EXISTING SERVICE TO 602 WHEELER.
NEW CONNECTION TO BE MADE FROM 16" WATER MAIN ON WHEELER AVENUE.

WHEELER AVENUE

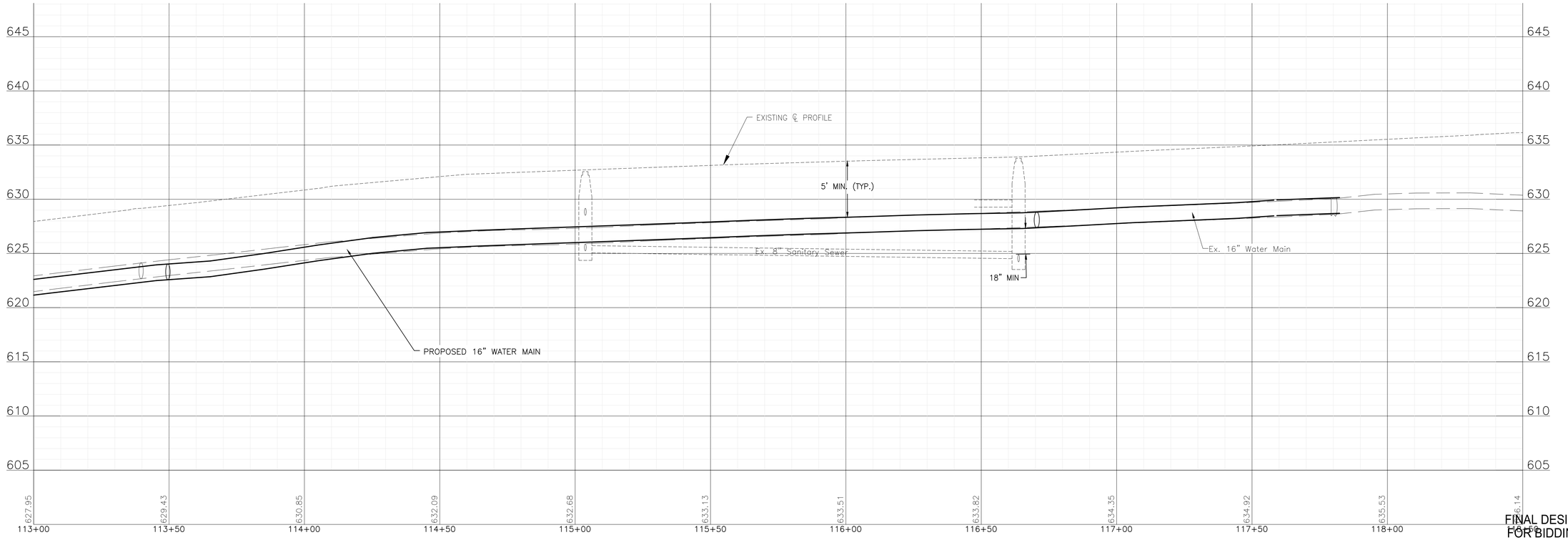
CROGHAN AVENUE

WOODS AVENUE

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

MATCH LINE STA. 13+00 SEE SHEET 21

FOR CONTINUATION SEE SHEET 23



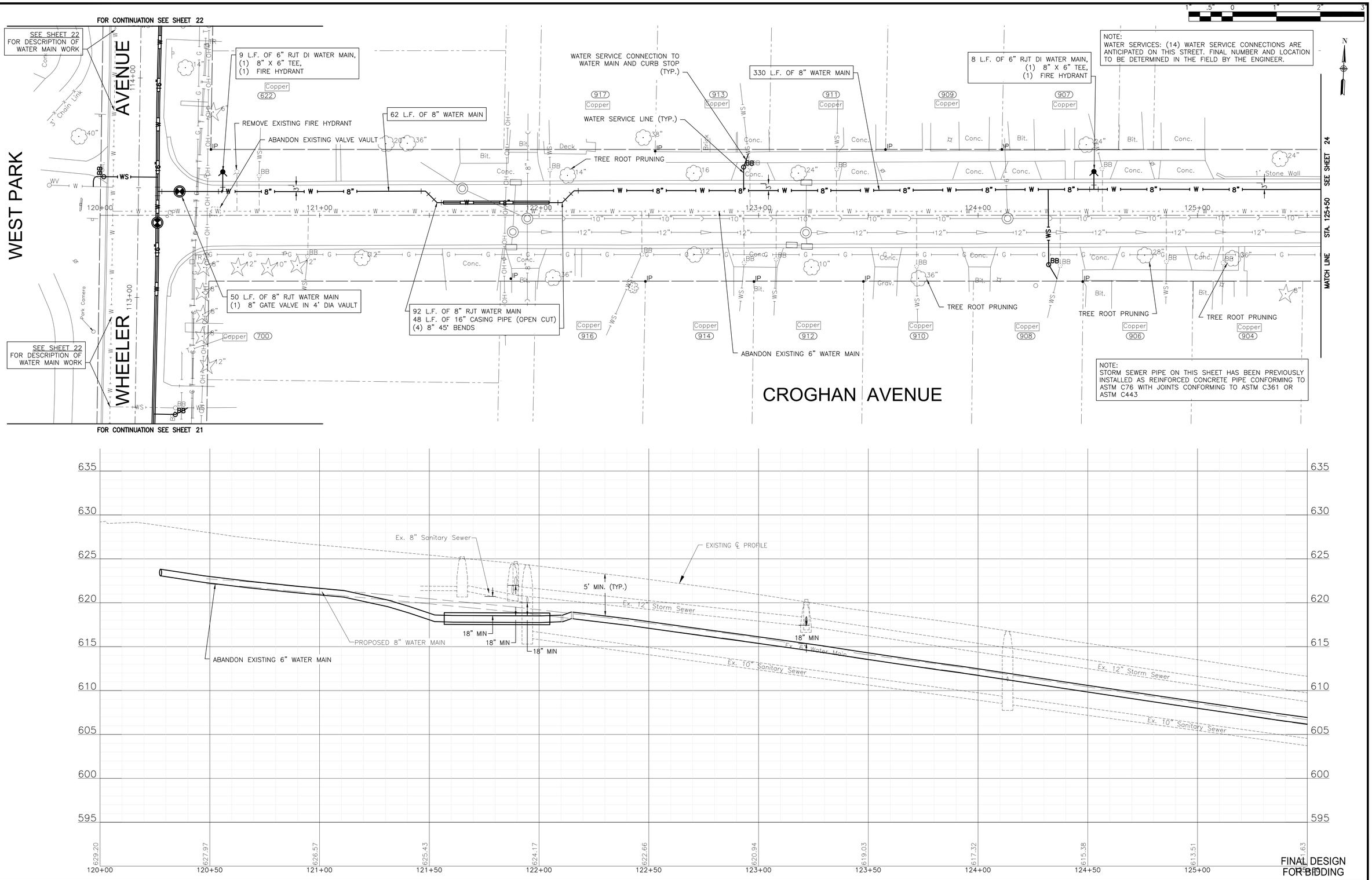
FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS WEST PARK WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2768-0124	WHEELER AVENUE STA. 113+00 TO STA. 118+50 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 221587.40

DESIGNED – BSG
DRAWN – JJS
CHECKED – MJF
DATE – 10/12/2023

TOTAL SHEETS: 29
SHEET NO.: 22

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	REVISED –
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	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

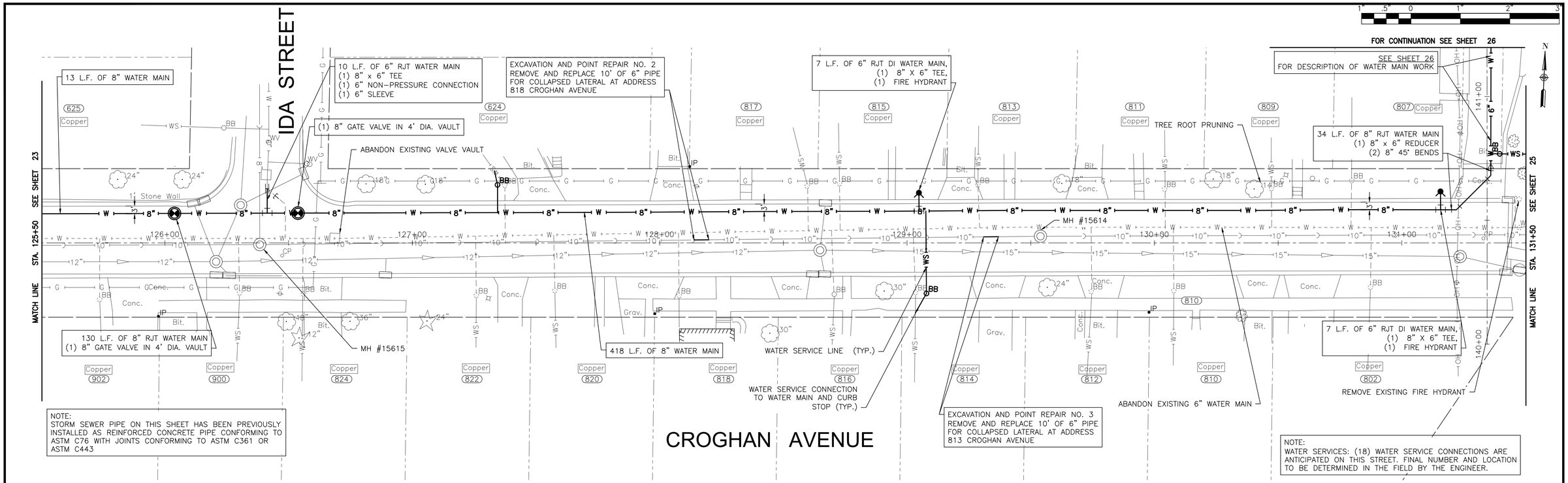
CROGHAN AVENUE STA. 120+00 TO STA. 125+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

DESIGNED – BSG	
DRAWN – JJS	
CHECKED – MJF	
DATE – 10/12/2023	

TOTAL SHEETS	SHEET NO.
29	23

FINAL DESIGN FOR BIDDING



EXCAVATION AND POINT REPAIR NO.	US MH	DS MH	STREET	MATERIAL	DIA. (IN)	SEGMENT LENGTH	DEFECT	REFERENCE MH	PR DEPTH	PR LENGTH	STATIONING FROM US MH	NO. OF SERVICES WITHIN REPAIR	COMMENTS
2	15615	15614	CROGHAN AVE	CP	10	315	COLLAPSED LATERAL	USMH	8'	6	173' TO 179'	1	CITY PLUMBERS TO CONFIRM SERVICE IS LIVE BEFORE COMPLETING REPAIR
3	15615	15614	CROGHAN AVE	CP	10	315	COLLAPSED LATERAL	USMH	7'	6	290' TO 296'	1	CITY PLUMBERS TO CONFIRM SERVICE IS LIVE BEFORE COMPLETING REPAIR

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

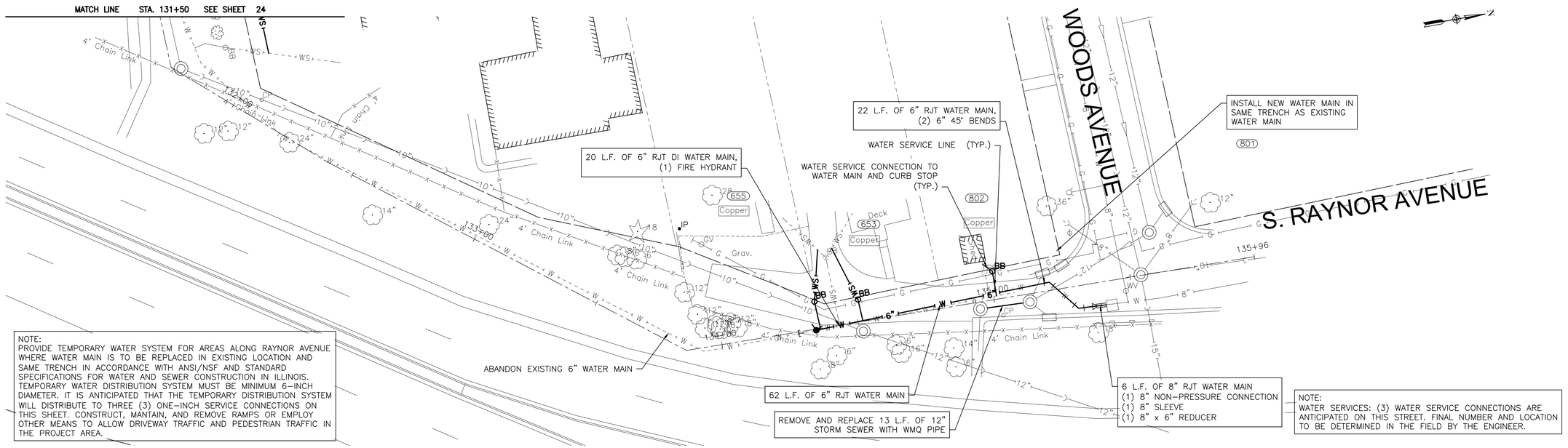
CROGHAN AVENUE STA. 125+50 TO STA. 131+50 PLAN AND PROFILE

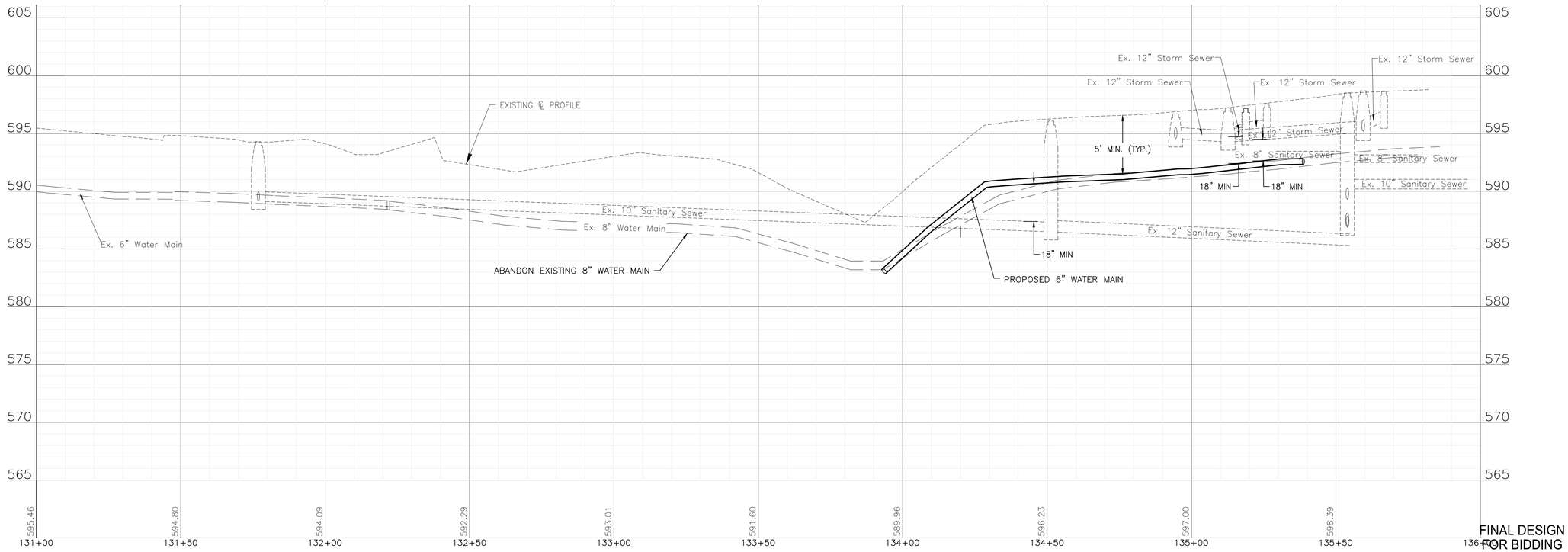
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

DESIGNED – BSG	TOTAL SHEETS: 29
DRAWN – JJS	SHEET NO.: 24
CHECKED – MJF	
DATE – 10/12/2023	

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MATCH LINE STA. 131+50 SEE SHEET 24





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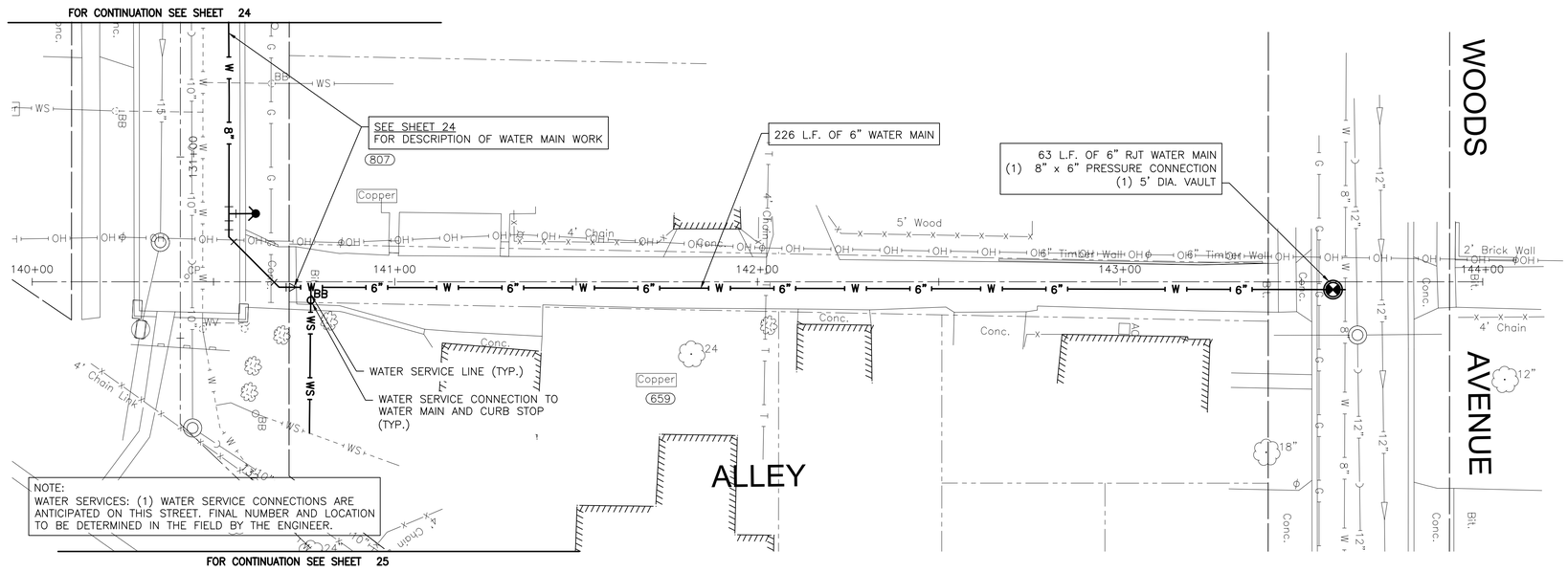
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS WEST PARK WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2768-0124
		REVISED –	
		REVISED –	
		REVISED –	

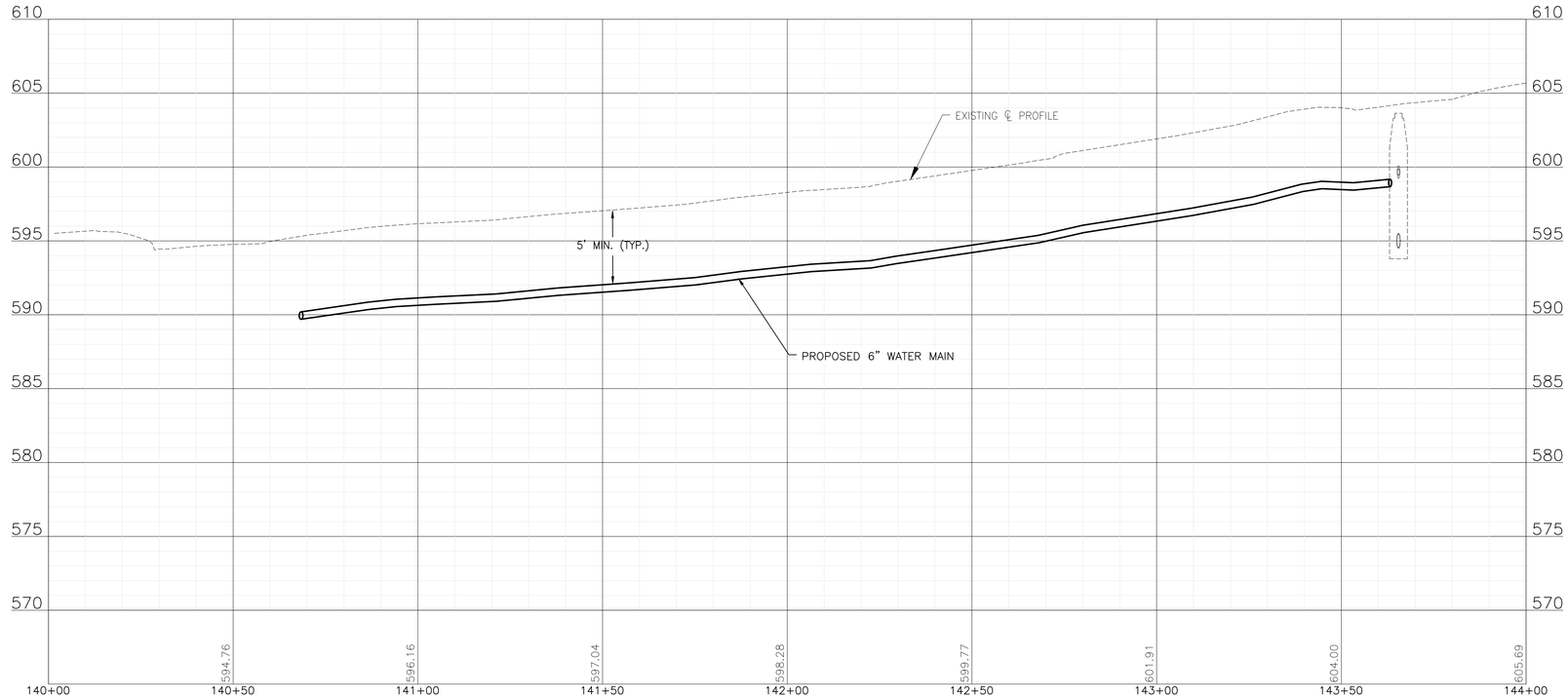
RAYNOR AVENUE STA. 131+50 TO STA. 136+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 221587.40

DESIGNED – BSG	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS	29	25	
CHECKED – MJF			
DATE – 10/12/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK-DESIGN-SHEETS.DWG 131+00.00
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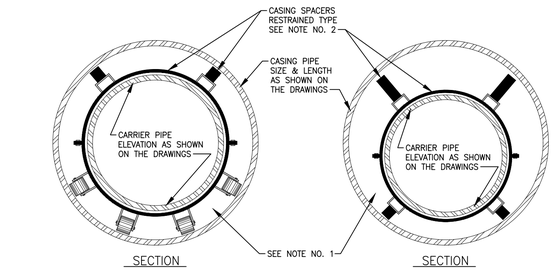
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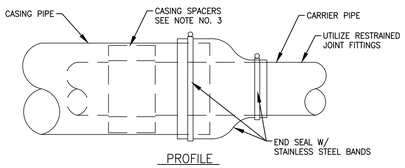
CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

CROGHAN AVENUE ALLEY STA. 140+00 TO STA. 144+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG		29	26
DRAWN – JJS			
CHECKED – MJF			
DATE – 10/12/2023			





NOTES

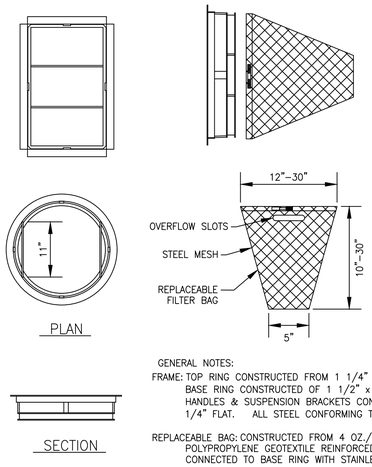
1. FILLING OF ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH SAND OR PEA GRAVEL IS NOT REQUIRED WHEN UTILIZING CASING SPACERS, UNLESS CONTRACTOR IS INSTRUCTED TO DO SO ON DRAWINGS OR IN SPECIFICATIONS.
2. WHERE CARRIER PIPE IS NOT CENTERED IN CASING PIPE, PROVIDE CASING SPACERS WITH LEGS THAT EXTEND TO WITHIN 1-INCH OF CASING INSIDE DIAMETER ON ALL SIDES (RESTRAINED TYPE).
3. 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)
4. 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



GENERAL NOTES:

FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM–A36.

REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON–WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.

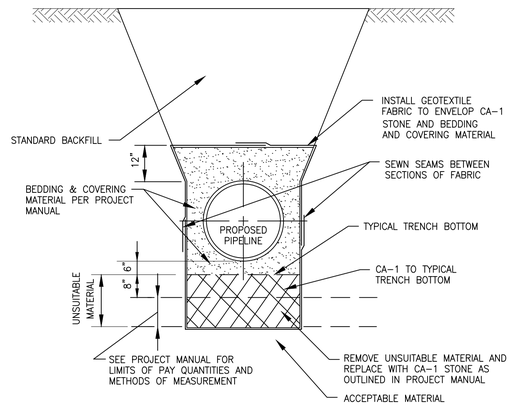
STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

INLET PROTECTION FILTER DETAIL
GEN–02

DATE: OCT. 2017



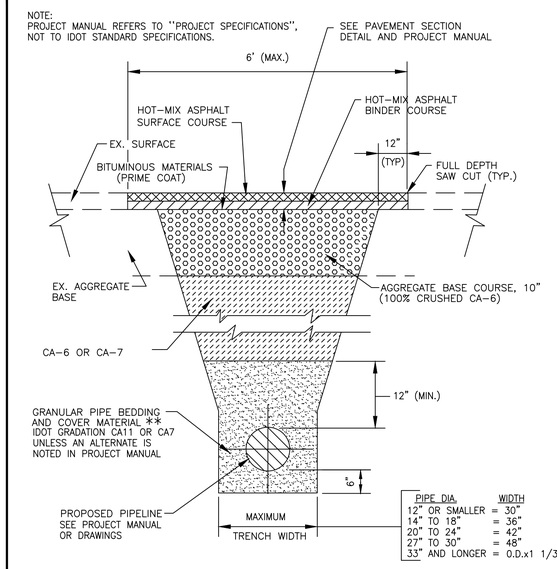
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

OPEN CUT PIPELINE INSTALLATION UNSUITABLE MATERIAL REMOVAL/REPLACEMENT
GEN–03

DATE: OCT. 2017

NOTE:
PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS", NOT TO IDOT STANDARD SPECIFICATIONS.



PIPE DIA.	WIDTH
12" OR SMALLER	= 30"
14" TO 18"	= 36"
20" TO 24"	= 42"
27" TO 30"	= 48"
33" AND LONGER	= O.D.x1 1/3

FOR PAVEMENT WITH AGGREGATE BASE AND COMPACTED GRANULAR BACKFILL MATERIAL

** FOR FLEXIBLE THERMOPLASTIC PIPE COMPLY WITH ASTM D2321, CLASS IA, IB, OR II., (IDOT GRADATION CA15)

FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

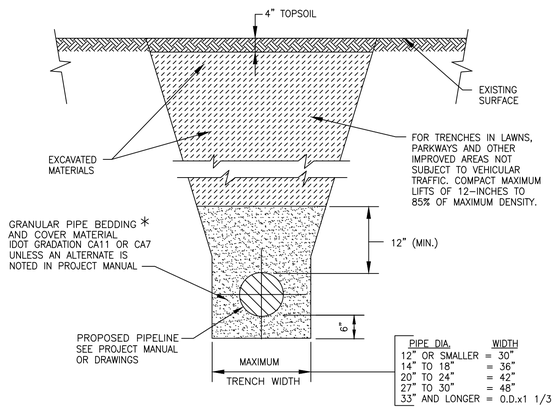
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL PAVEMENT AREA AGGREGATE BASE
GEN–04

DATE: OCT. 2017

NOTES:
1. PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS", NOT TO IDOT STANDARD SPECIFICATIONS.
2. FARM FIELDS, GARDENS, AND WETLAND AREAS MAY REQUIRE STRIPPING, STOCKPILING, AND REPLACING ORIGINAL MATERIAL TO A SPECIFIC DEPTH. SEE PROJECT MANUAL OR GENERAL NOTES FOR REQUIREMENTS.



PIPE DIA.	WIDTH
12" OR SMALLER	= 30"
14" TO 18"	= 36"
20" TO 24"	= 42"
27" TO 30"	= 48"
33" AND LONGER	= O.D.x1 1/3

FOR NON–PAVED AREAS

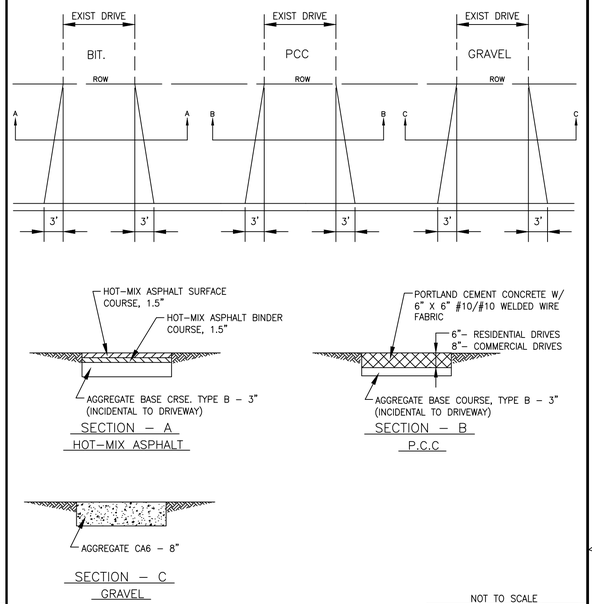
* FOR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II. FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL NON PAVED AREAS
GEN–05

DATE: OCT. 2017



NOTES:

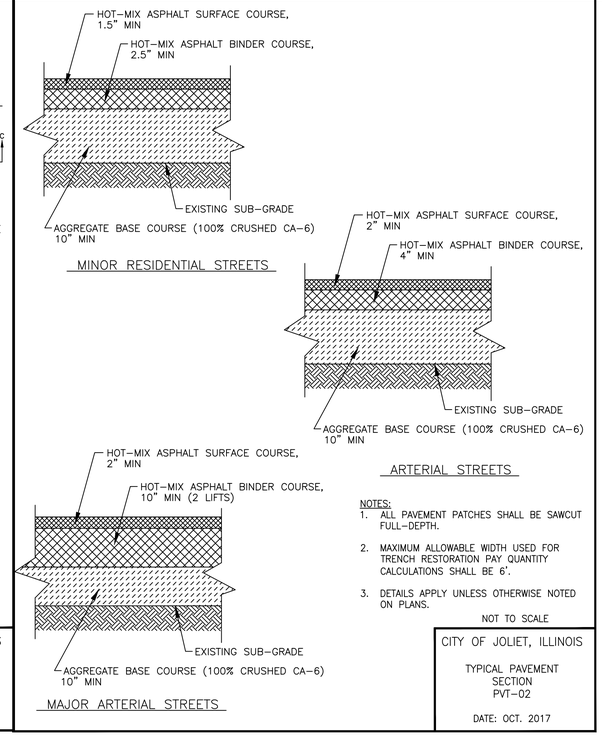
1. APRON: 8:1 SLOPE FROM FRONT OF SIDEWALK TO BACK OF CURB.
2. SIDEWALK: 1/4" / FT SLOPE

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

DRIVEWAY PAVEMENT DETAIL
PVT–01

DATE: OCT. 2017



NOTES:

1. ALL PAVEMENT PATCHES SHALL BE SAWCUT FULL–DEPTH.
2. MAXIMUM ALLOWABLE WIDTH USED FOR TRENCH RESTORATION PAY QUANTITY CALCULATIONS SHALL BE 6'.
3. DETAILS APPLY UNLESS OTHERWISE NOTED ON PLANS.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL PAVEMENT SECTION
PVT–02

DATE: OCT. 2017

FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

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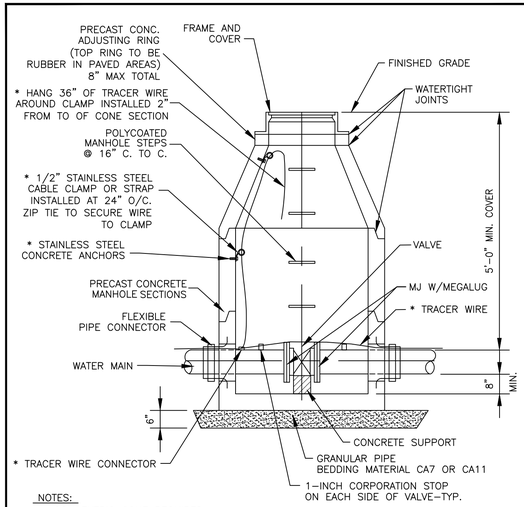
CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG			
DRAWN – JJS			
CHECKED – MJF		29	27
DATE – 10/12/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\WEST PARK\01_CIVIL 3D\01_SHTS-PLANS\221587-WEST PARK_COVER_GEN_DETS.DWG DETAILS
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NOTES:

1. CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1 OR NEENAH R170
* 4. ATTACH TRACER WIRE TO MAINTAIN MIN. 24" AWAY FROM STEPS
* 5. SECURE STAINLESS STEEL CABLE CLAMPS TO VAULT WALL WITH TAPCON 0.25" X 1.5" (MIN.) EMBEDMENT STAINLESS STEEL SCREW ANCHORS, OR APPROVED EQUAL.

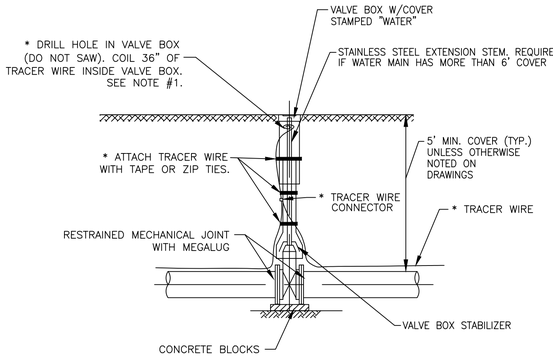
* FOR PVC WATER MAIN INSTALLATION ONLY

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT DETAIL WTR-01

DATE: NOVEMBER. 2022



NOTES:

* 1. ATTACH TRACER WIRE TO OUTSIDE OF VALVE BOX USING TAPE OR ZIP TIES. DRILL 5/8" DIA. HOLE IN VALVE BOX 6" FROM TOP OF VALVE BOX.

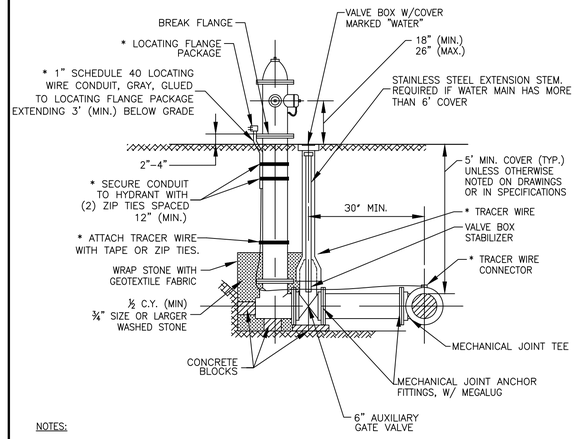
* FOR PVC WATER MAIN INSTALLATION ONLY

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX DETAIL WTR-02

DATE: NOVEMBER 2022



NOTES:

1. MUELLER CENTURION A423, CLOW MEDALLION OR E.J. 5BR250 (RED FOR MUNICIPAL TREATED WATER, GREEN FOR RAW WATER, YELLOW FOR PRIVATE HYDRANTS)
2. HYDRANTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE BACK OF CURB IN LOCATIONS SHOWN ON THE DRAWINGS
3. USE SWIVEL TEE AS CALLED OUT ON PLANS. 30" MINIMUM SEPARATION DOES NOT APPLY WHEN USING SWIVEL TEES.
*4. LOCATING WIRE CONDUIT TO BE RIGID PIPE FORMED TO HYDRANT OR TOP 18" TO BE RIGID, WITH 12" (MAX.) FLEXIBLE CONDUIT BELOW, TRANSITIONING BACK TO RIGID CONDUIT.
*5. LOCATING FLANGE PACKAGE TO BE RED COLOR COPPERHEAD INDUSTRIES COBRA HYDRANT PACKAGE PART # T1-FLPKG OR APPROVED EQUAL

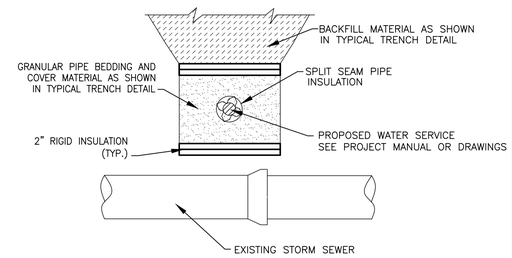
* FOR PVC WATER MAIN INSTALLATION ONLY

NOT TO SCALE

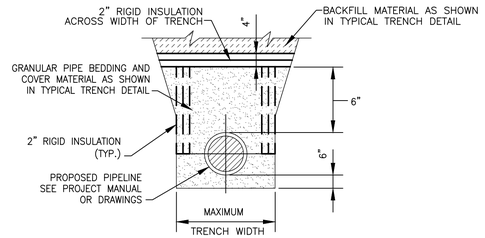
CITY OF JOLIET, ILLINOIS

FIRE HYDRANT DETAIL WTR-03

DATE: NOVEMBER 2022



WATER SERVICE



WATER MAIN

NOTES:

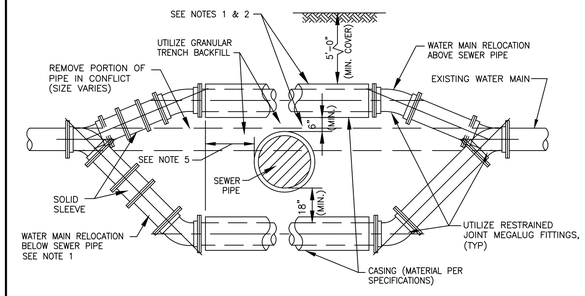
1. TO BE USED WHEN WATER MAIN AND / OR WATER SERVICE BURY DEPTH IS < 4' OR WHEN WATER SERVICE CROSSES ABOVE STORM SEWER.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PIPE INSULATION DETAIL WTR-04

DATE: OCT. 2017



NOTES:

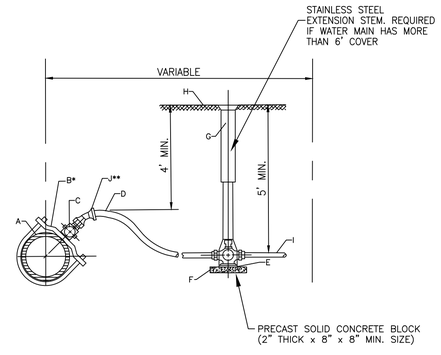
1. ONLY TO BE USED IF WATER MAIN CANNOT CROSS ABOVE PROPOSED SEWER AND MAINTAIN THE REQUIRED 18" OF SEPARATION AS SHOWN ON DRAWING, OR APPROVED BY ENGINEER IN FIELD.
2. WHEN WATER MAIN CROSSES ABOVE SEWER AND MAINTAINS THE REQUIRED 18" OF SEPARATION, THE CASING PIPE IS NOT REQUIRED.
3. WATER MAIN RELOCATIONS 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

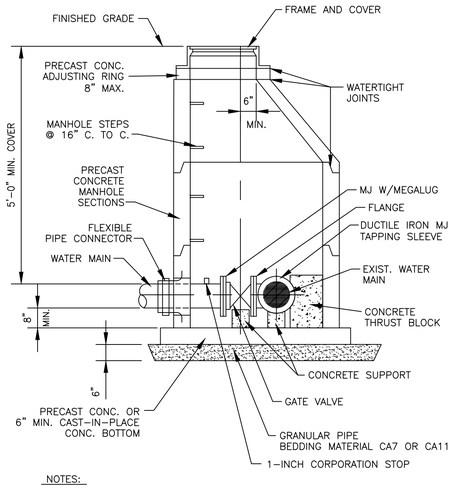
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

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 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PRESSURE CONNECTION DETAIL WTR-07

DATE: OCT. 2017

FINAL DESIGN FOR BIDDING

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	REVISED -
	REVISED -

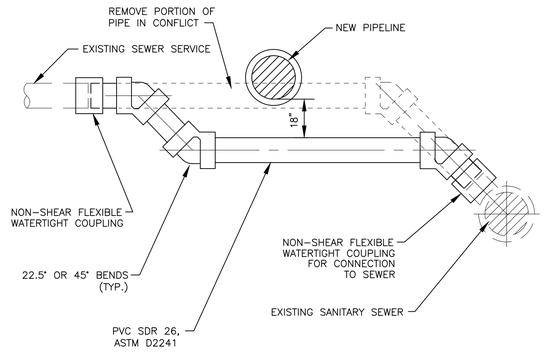
CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED - BSG			
DRAWN - JJS			
CHECKED - MJF		29	28
DATE - 10/12/2023			

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CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE RELOCATION
SAN–03

DATE: OCT. 2017

DUCTILE IRON–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	–

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–09

DATE: NOVEMBER 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	–

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

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

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	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
WEST PARK WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2768-0124

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – BSG			
DRAWN – JJS			
CHECKED – MJF		29	29
DATE – 10/12/2023			

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