FINAL DESIGN
FOR BIDDING

CITY OF JOLIET, ILLINOIS

GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2778-0124

WATER MAIN REPLACEMENT IPEA LOAN NO. L17-6075

LEAD SERVICE REPLACEMENT IEPA LOAN NO. L17-5747



VICINITY MAP

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23	CONSTRUCTION DETAILS
24	IDOT STANDARD DETAILS

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J.U.L.I.E. DESIGN STAGE REQUEST
DIG NO. A223322131
EXISTING UTILITIES:
WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.

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

BAXTER & WOODMAN
Consulting Engineers
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BAXTER & WOODMAN, INC.
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025

PROJECT NO.: 221587.40 DATE: 10/26/2023

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5B_COVER_GEN_DETS.DWG COVER
Plotted: 10/23/2023 6:09 PM By: AMAKKAOUI

NO SCALE

HUTCHINS ST.
ELIZABETH ST.
BM #71
BM #64
INGALLS AVE.
SUMMIT AVE.
FRANK AVE.
ELIZABETH ST.
SHT. 15
SHT. 18
SHT. 5
SUMMIT ST.
SHT. 6
SHT. 7
SHT. 8
SHT. 9
N. HICKORY ST.
SHT. 10
SHT. 11
N. HICKORY ST.
SHT. 12
SHT. 13
N. HICKORY ST.
SHT. 14
SHT. 16
SHT. 17
SHT. 19
RUSSELL ST.
MORAN ST.
N. BROADWAY ST.

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

SHEET KEY

SCALE: AS NOTED | PROJECT NO: 221587.40

DESIGNED – MJK	TOTAL SHEETS	SHEET NO.
DRAWN – JJS/AAM	24	2
CHECKED – LMS		
DATE – 10/26/2023		

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_SHEET KEY B.DWG SHEET KEY B
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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	
CO	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	
OH	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

BENCHMARKS (NAVD 88 DATUM)

B.M. # 51	RAILROAD SPIKE SET IN NORTH FACE HALF POWER POLE AT THE SOUTH WEST CORNER OF RAYNOR AVENUE AND INGALLS AVENUE ELEV. = 654.924
B.M. # 52	SOUTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF RAYNOR AVENUE AND HUTCHINS STREET ELEV. = 657.714
B.M. # 53	RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE AT THE SOUTH EAST CORNER OF RAYNOR AVENUE AND MORAN STREET ELEV. = 656.015
B.M. # 54	RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE AT THE SOUTHWEST CORNER OF MORAN STREET AND KELLY AVENUE ELEV. = 658.346
B.M. # 55	RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE WITH LIGHT AT THE NORTHWEST CORNER OF MORAN STREET AND WILCOX STREET ELEV. = 657.498
B.M. # 56	RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE WITH LIGHT AT THE NORTHWEST CORNER OF MORAN STREET AND OAKLAND AVENUE ELEV. = 653.508
B.M. # 57	RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE AT THE NORTHWEST CORNER OF MORAN STREET AND CLEMENT STREET ELEV. = 650.499
B.M. # 58	RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE AT THE NORTHWEST CORNER OF MORAN STREET AND HIGHLAND AVENUE ELEV. = 643.983
B.M. # 59	RAILROAD SPIKE SET IN EAST FACE POWER POLE AT THE NORTHWEST CORNER OF MORAN STREET AND NICHOLSON STREET ELEV. = 643.336
B.M. # 60	RAILROAD SPIKE SET IN SOUTHWEST FACE POWER POLE WITH LIGHT AT THE NORTHEAST CORNER OF MORAN STREET AND VINE STREET ELEV. = 644.47
B.M. # 62	NORTHWEST FLANGE BOLT ON FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF MORAN STREET AND CORA STREET ELEV. = 630.813
B.M. # 63	RAILROAD SPIKE SET IN WEST FACE POWER POLE AT THE NORTHEAST CORNER OF MORAN STREET AND ELIZABETH STREET ELEV. = 616.611
B.M. # 64	RAILROAD SPIKE SET IN SOUTHWEST FACE POWER POLE WITH LIGHT AT THE NORTHEAST CORNER OF MORAN STREET AND SUMMIT STREET ELEV. = 603.045
B.M. # 68	RAILROAD SPIKE SET IN SOUTHWEST FACE POWER POLE WITH LIGHT AT THE NORTHEAST CORNER OF MORAN STREET AND CENTER STREET ELEV. = 639.01
B.M. # 71	RAILROAD SPIKE SET IN WEST FACE POWER POLE WITH LIGHT AT THE NORTHEAST CORNER OF ELIZABETH STREET AND HUTCHINS STREET ELEV. = 621.292

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

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

LEGEND, BENCHMARKS AND ABBREVIATIONS

SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM			
CHECKED – LMS		24	3
DATE – 10/26/2023			

P:\JOLIT\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5B_COVER_GEN_DETS.DWG LEGEND BENCHMARKS ABBREVIATIONS
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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.

    - INGALLS AVENUE SHALL HAVE 10.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.
    - BROADWAY STREET SHALL HAVE 12 INCHES OF CLASS B CONCRETE PATCH
    - SUMMIT STREET, NORTH HICKORY STREET, HUTCHINS STREET, FRANK AVENUE, AND RUSSELL STREET SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.

23. 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.

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

25. 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.

26. 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 (SPECIAL)	LSUM	1
3	GRANULAR TRENCH BACKFILL	CUYD	4,000
4	TRENCH BACKFILL (SPECIAL)	CUYD	20
5	WATER MAIN (OPEN CUT), 6–INCH DI	FOOT	197
6	WATER MAIN (OPEN CUT), 8–INCH	FOOT	5,776
7	WATER MAIN (OPEN CUT), 8–INCH DI	FOOT	213
8	MISCELLANEOUS FITTINGS	POUND	7,500
9	CONNECT TO WATER MAIN (NON–PRESSURE), 6–INCH	EACH	1
10	CONNECT TO WATER MAIN (NON–PRESSURE), 8–INCH	EACH	7
11	CONNECT TO WATER MAIN (PRESSURE), 8–INCH X 8–INCH	EACH	1
12	GATE VALVE, 8–INCH	EACH	18
13	VALVE BOX	EACH	3
14	VALVE VAULT, 4–FOOT DIAMETER	EACH	16
15	VALVE VAULT (ADDITIONAL DEPTH), 4–FOOT DIAMETER	VFT	3
16	FIRE HYDRANT	EACH	17
17	FIRE HYDRANT BARREL EXTENSION	VFT	3
18	LINE STOP, 6–INCH	EACH	1
19	LINE STOP, 8–INCH	EACH	1
20	LINE STOP, 12–INCH	EACH	1
21	SANITARY SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	48
22	SANITARY SEWER REMOVAL AND REPLACEMENT, 15–INCH	FOOT	50
23	STORM SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	20
24	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
25	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1–INCH	EACH	121
26	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5–INCH	EACH	1
27	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2–INCH	EACH	1
28	WATER SERVICE LINE TYPE K – OPEN CUT, 1–INCH	FOOT	1,107
29	WATER SERVICE LINE TYPE K – OPEN CUT, 1.5–INCH	FOOT	25
30	WATER SERVICE LINE TYPE K – OPEN CUT, 2–INCH	FOOT	25
31	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH	FOOT	2,702
32	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH	FOOT	25
33	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH	FOOT	25
34	WATER SERVICE CASING PIPE	FOOT	300
35	REMOVE AND REPLACE DRAIN TILES, 6–INCH THROUGH 12–INCH	FOOT	150
36	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	30
37	EXPLORATORY EXCAVATION	EACH	5
38	INLET PROTECTION FILTER	EACH	77
39	RESTORATION OF LAWNS AND PARKWAYS	SQYD	1,000
40	TEMPORARY HOT–MIX ASPHALT PAVEMENT	SQYD	100
41	CLASS B PATCH	SQYD	100
42	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	4,100
43	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 10.5–INCH BINDER 1.5–INCH SURFACE	SQYD	100
44	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3–INCH	SQYD	20
45	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH	SQYD	210
46	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	20
47	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	800
48	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	2,950
49	DETECTABLE WARNINGS	SQFT	510
50	PAVEMENT MARKING – LINE, 4–INCH (THERMOPLASTIC)	FOOT	60
51	PAVEMENT MARKING – LINE, 6–INCH (THERMOPLASTIC)	FOOT	490
52	PAVEMENT MARKING – LINE, 24–INCH (THERMOPLASTIC)	FOOT	40
53	EPOXY PAVEMENT MARKING – LINE, 6–INCH	FOOT	100
54	EPOXY PAVEMENT MARKING – LINE, 24–INCH	FOOT	20
55	PAVEMENT MARKING REMOVAL, WATER BLASTING	SQFT	50
56	REMOVAL AND RELOCATION OF SIGNS	EACH	3
57	TREE ROOT PRUNING	EACH	14
58	TREE TRIMMING	LSUM	1
59	TREE REMOVAL AND REPLACEMENT, 6–INCH THROUGH 12–INCH	EACH	1
60	TREE REMOVAL AND REPLACEMENT, OVER 12 INCH	EACH	1
61	DUST CONTROL	DAY	30
62	ROCK EXCAVATION	CUYD	500
63	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	76
64	SOIL TESTS FOR CONTAMINANTS	EACH	5
65	CONTAMINATED WASTE DISPOSAL	CUYD	76

	PART B – LEAD SERVICE LINE IMPROVEMENTS		
66	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	39
67	WATER SERVICE LINE TYPE K – OPEN CUT (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	25
68	WATER SERVICE LINE TYPE K – OPEN CUT (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	25
69	WATER SERVICE LINE TYPE K – OPEN CUT (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	25
70	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	325
71	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	25
72	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	25
73	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4–INCH	FOOT	20
74	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	130
75	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	20
76	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	20
77	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	130
78	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	7
79	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD SERVICE REPLACEMENT)	EACH	7
80	UTILITY LOCATION – PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	13
81	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	13
82	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	EACH	13
83	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	26
84	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	13
85	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	26
86	FENCE TO BE REMOVED AND RE–ERECTED (LEAD SERVICE REPLACEMENT)	FOOT	65
87	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	20
88	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH (LEAD SERVICE REPLACEMENT)	SQYD	10
89	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	75
	PART C – SEWER IMPROVEMENTS		
90	EXCAVATION AND REPLACEMENT POINT REPAIR NO.1	LSUM	1
91	EXCAVATION AND REPLACEMENT POINT REPAIR – ADDITIONAL PIPE IN PAVEMENT, 8–INCH	FOOT	10

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 221587.40

DESIGNED – MJK	
DRAWN – JJS/AAM	
CHECKED – LMS	
DATE – 10/26/2023	

TOTAL SHEETS	SHEET NO.
24	4

P:\JOLTC\221587–2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS–PLANS\221587–GARNSEY PARK PHASE 5B_COVER_GEN_DETS.DWG GENERAL NOTES AND SOQ
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SEE PHASE 5A SHEET 14
FOR DESCRIPTION OF WATER MAIN WORK

28 L.F. OF 8" RJT DI WATER MAIN,
(1) 11.25° VERTICAL BEND

35 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN BOX

253 L.F. OF 8" WATER MAIN

RESTORE STAMPED PCC SIDEWALK TO MATCH EXISTING CONDITIONS (INCIDENTAL)

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

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

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.

TREE ROOT PRUNING

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

WATER MAIN INSTALLATION INCLUDED IN GARNSEY PARK PHASE 5A PROJECT

ABANDON EXISTING VALVE BOX

ABANDON EXISTING 10" WATER MAIN

ABANDON EXISTING FIRE HYDRANT

WATER SERVICE LINE (TYP.)

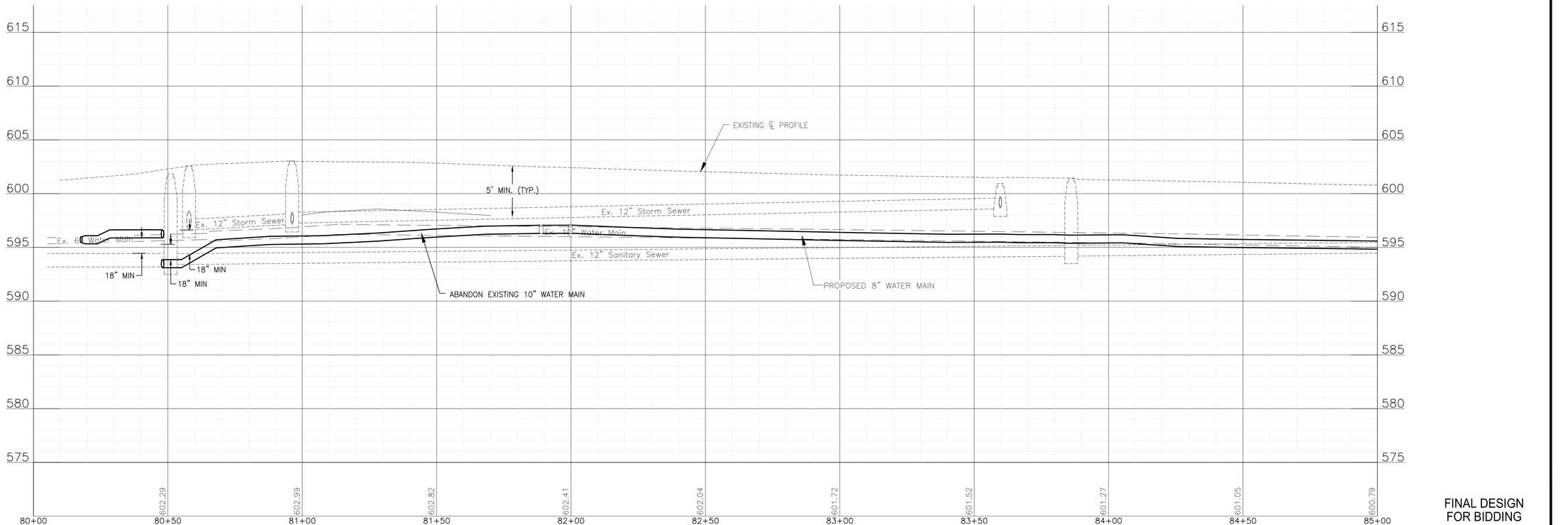
106 L.F. OF 8" WATER MAIN

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

MORAN STREET

SUMMIT STREET

MATCH LINE STA. 85+00 SEE SHEET 6



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

SUMMIT STREET STA. 80+00 TO STA. 85+00 PLAN AND PROFILE

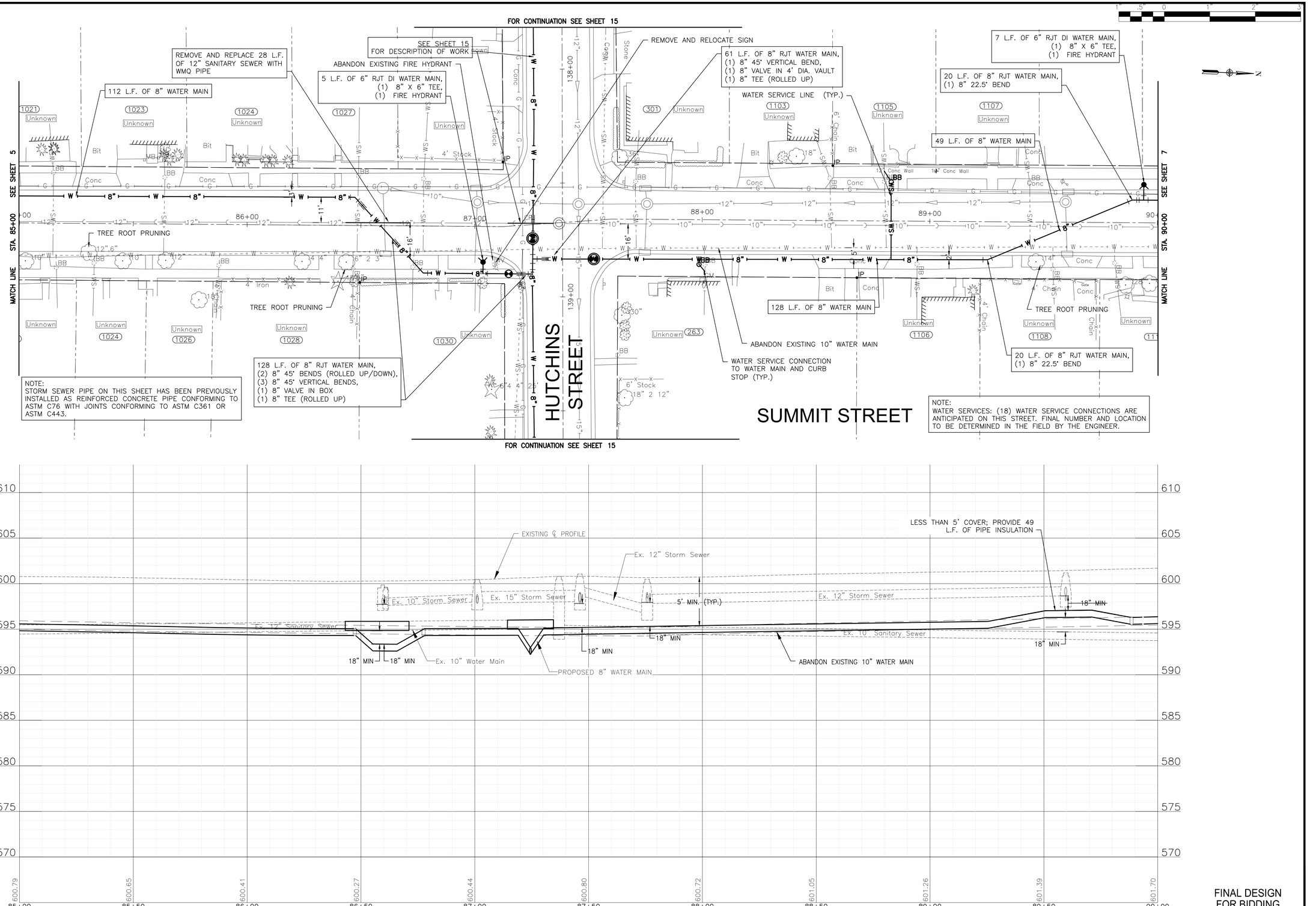
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

DESIGNED – MJK
DRAWN – JJS/AAM
CHECKED – LMS
DATE – 10/26/2023

TOTAL SHEETS: 24
SHEET NO.: 5

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 80+00.00
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		REVISED –	
		REVISED –	
		REVISED –	

SUMMIT STREET STA. 85+00 TO STA. 90+00 PLAN AND PROFILE

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

DESIGNED – MJK	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS/AAM	24	6	
CHECKED – LMS			
DATE – 10/26/2023			

P:\JOLIT\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 85+00.00
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NOTE:
WATER SERVICES: (11) 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.

ABANDON EXISTING 10" WATER MAIN

TREE ROOT PRUNING

232 L.F. OF 8" WATER MAIN

ABANDON EXISTING FIRE HYDRANT

WATER SERVICE LINE (TYP.)

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

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

TREE ROOT PRUNING

36 L.F. OF 8" WATER MAIN

TREE ROOT PRUNING

ABANDON EXISTING FIRE HYDRANT

55 L.F. OF 8" RJT WATER MAIN

TREE ROOT PRUNING

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

REMOVE AND RELOCATE SIGN

16 L.F. OF 8" RJT DI WATER MAIN, (1) 8" NON-PRESSURE CONNECTION, (1) 8" SLEEVE

SEE SHEET 8
FOR DESCRIPTION OF WATER MAIN WORK

SEE SHEET 6
MATCH LINE
STA. 90+00

FOR CONTINUATION SEE SHEET 8

SUMMIT STREET

INGALLS AVENUE

EXISTING ℄ PROFILE

5' MIN. (TYP.)

Ex. 10" Water Main

Ex. 10" Sanitary Sewer

Ex. 12" Storm Sewer

Ex. 12" Storm Sewer

Ex. 12" Storm Sewer

18" MIN

18" MIN

18" MIN

ABANDON EXISTING 10" WATER MAIN

PROPOSED 8" WATER MAIN

615 610 605 600 595 590 585 580 575

601.70 602.15 602.68 603.01 603.03 603.05 603.17 603.31 603.52

90+00 90+50 91+00 91+50 92+00 92+50 93+00 93+50 94+00 94+50

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

SUMMIT STREET STA. 90+00 TO STA. 94+50 PLAN AND PROFILE

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

DESIGNED – MJK	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS/AAM	24	7	
CHECKED – LMS			
DATE – 10/26/2023			

P:\JOLIT\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 90+00.00
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FOR CONTINUATION SEE SHEET 7

SEE SHEET 7
FOR DESCRIPTION OF WATER MAIN WORK

73 L.F. OF 8" RJT WATER MAIN,
(4) 8" 45° BENDS

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.

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

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

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

WATER SERVICE LINE (TYP.)

19 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE

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

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING VALVE VAULT

ABANDON EXISTING 10" WATER MAIN

399 L.F. OF 8" WATER MAIN

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING VALVE BOX

ABANDON EXISTING VALVE BOX

9 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" VALVE IN 4' DIA VAULT,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" TEE, (1) 8" SLEEVE

INGALLS AVENUE

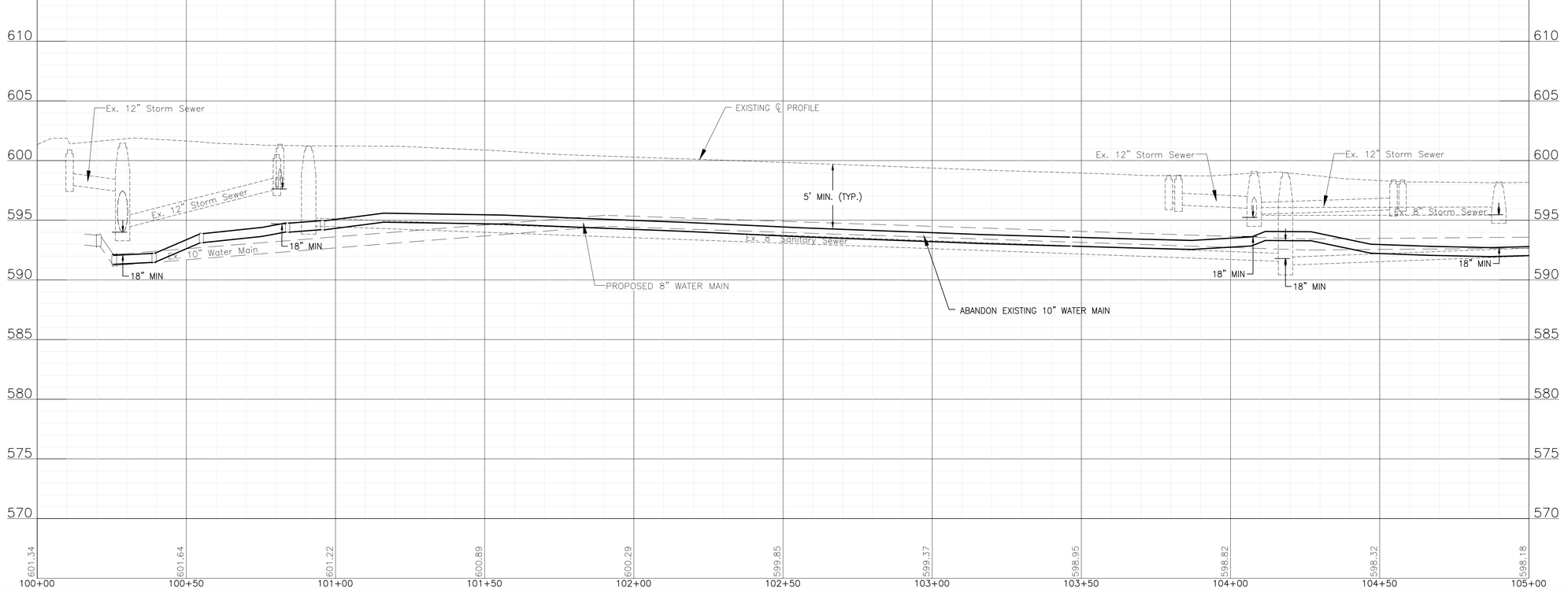
NORTH HICKORY STREET

SMITH AVENUE

SEE SHEET 9

STA. 105+00

MATCH LINE



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

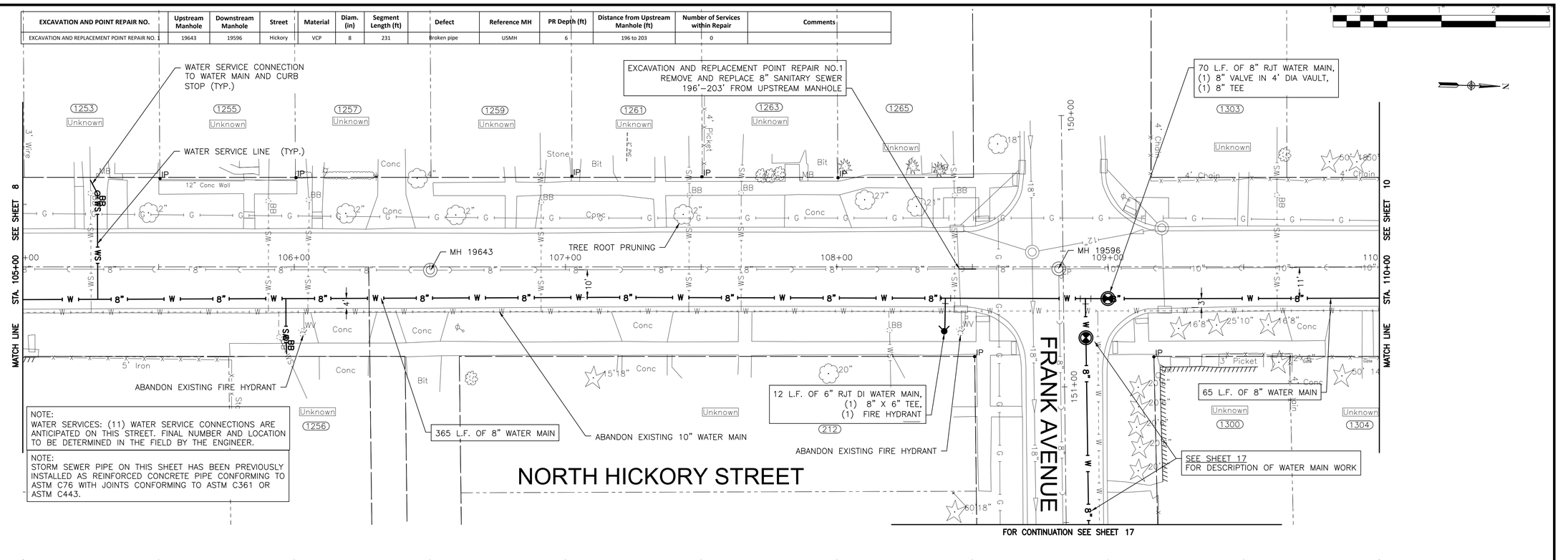
NORTH HICKORY STREET STA. 100+00 TO STA. 105+00 PLAN AND PROFILE

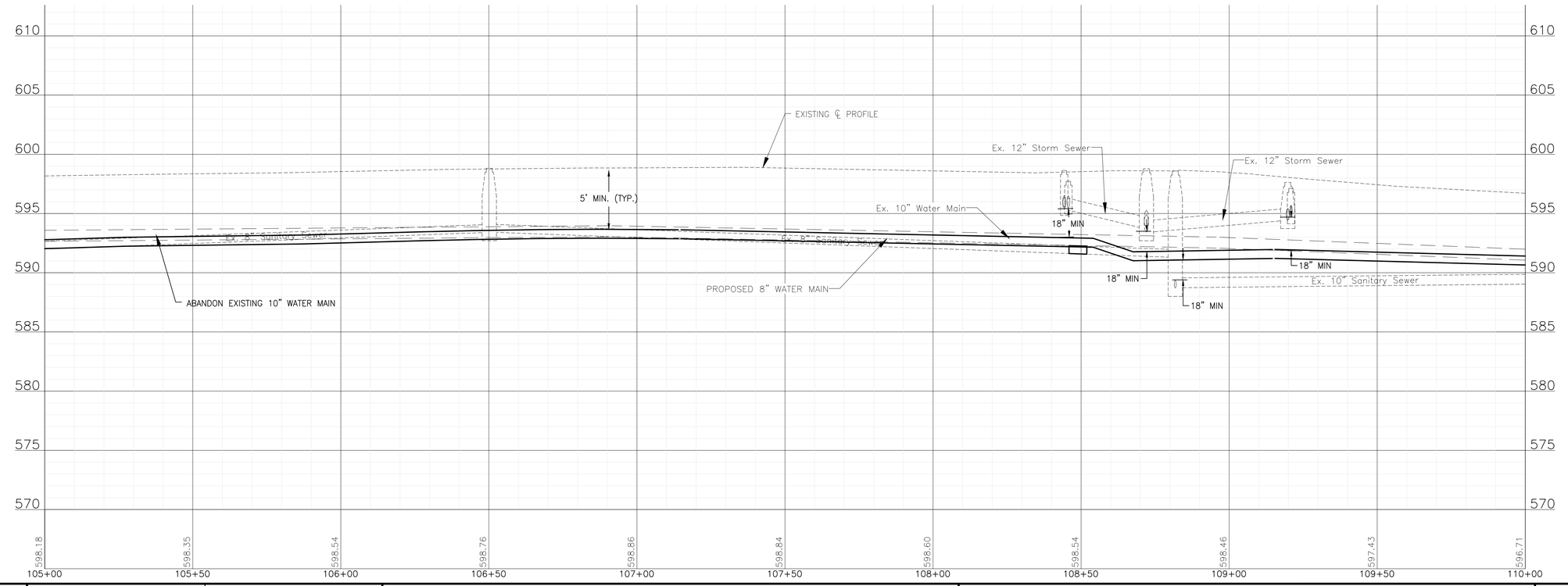
SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

DESIGNED – MJK	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS/AAM			
CHECKED – LMS	24	8	
DATE – 10/26/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 100+00.00
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EXCAVATION AND POINT REPAIR NO.	Upstream Manhole	Downstream Manhole	Street	Material	Diam. (in)	Segment Length (ft)	Defect	Reference MH	PR Depth (ft)	Distance from Upstream Manhole (ft)	Number of Services within Repair	Comments
EXCAVATION AND REPLACEMENT POINT REPAIR NO. 1	19643	19596	Hickory	VCP	8	231	Broken pipe	USMH	6	196 to 203	0	





FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

NORTH HICKORY STREET STA. 105+00 TO STA. 110+00 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM		24	9
CHECKED – LMS			
DATE – 10/26/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 105+00.00
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NOTE:
WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

WATER SERVICE LINE (TYP.)

SEE SHEET 18
FOR DESCRIPTION OF WATER MAIN WORK

FOR CONTINUATION SEE SHEET 18

SEE SHEET 9

STA. 110+00

MATCH LINE

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

320 L.F. OF 8" WATER MAIN

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

TREE ROOT PRUNING

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING 10" WATER MAIN

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING VALVE BOX

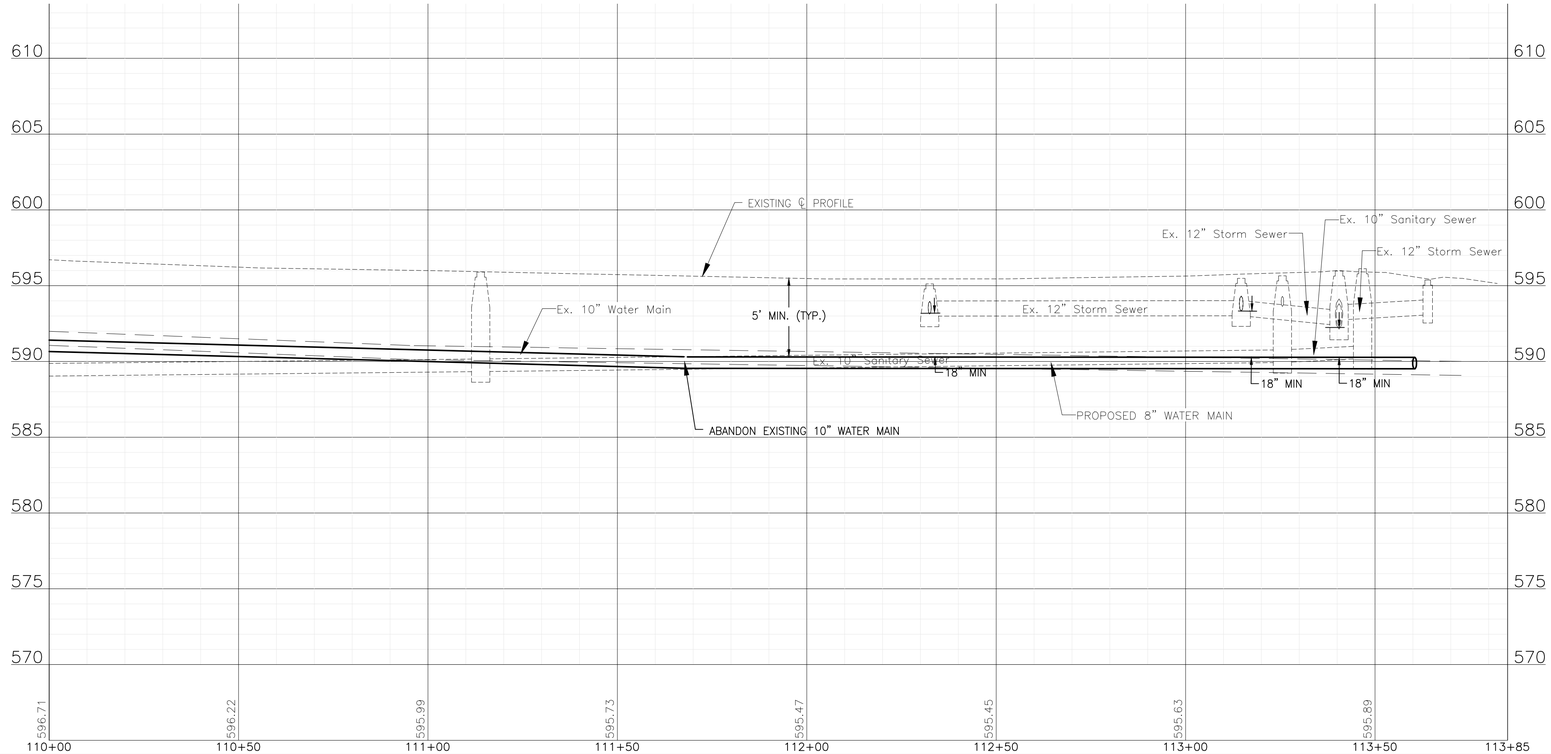
NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

NORTH HICKORY STREET

RUSSELL STREET

SEE SHEET 19
FOR DESCRIPTION OF WATER MAIN WORK

FOR CONTINUATION SEE SHEET 19



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

NORTH HICKORY STREET STA. 110+00 TO STA. 114+00 PLAN AND PROFILE

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

PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK		24	10
DRAWN – JJS/AAM			
CHECKED – LMS			
DATE – 10/26/2023			

P:\JOLIT\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 110+00.00
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SEE PHASE 5A SHEET 15
FOR DESCRIPTION OF WATER MAIN WORK

32 L.F. OF 8" RJT DI WATER MAIN,
(4) 8" 45° BENDS (ROLLED UP/DOWN),
(1) 6" NON-PRESSURE CONNECTION,
(1) 8" x 6" REDUCER,
(1) 6" SLEEVE

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

154 L.F. OF 8" WATER MAIN

ABANDON EXISTING 6" WATER MAIN

REMOVE AND REPLACE 25 L.F.
OF 15" SANITARY SEWER WITH
WMQ PIPE

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

REMOVE AND REPLACE 25 L.F.
OF 15" SANITARY SEWER WITH
WMQ PIPE

WATER MAIN INSTALLATION INCLUDED IN
GARNSEY PARK PHASE 5B PROJECT

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

ABANDON EXISTING VALVE BOX

WATER SERVICE LINE (TYP.)

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

102 L.F. OF 8" RJT WATER MAIN,
(2) 8" 45° BENDS (ROLLED UP/DOWN),
(2) 8" 45° VERTICAL BENDS

ABANDON EXISTING FIRE HYDRANT

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

107 L.F. OF 8" WATER MAIN

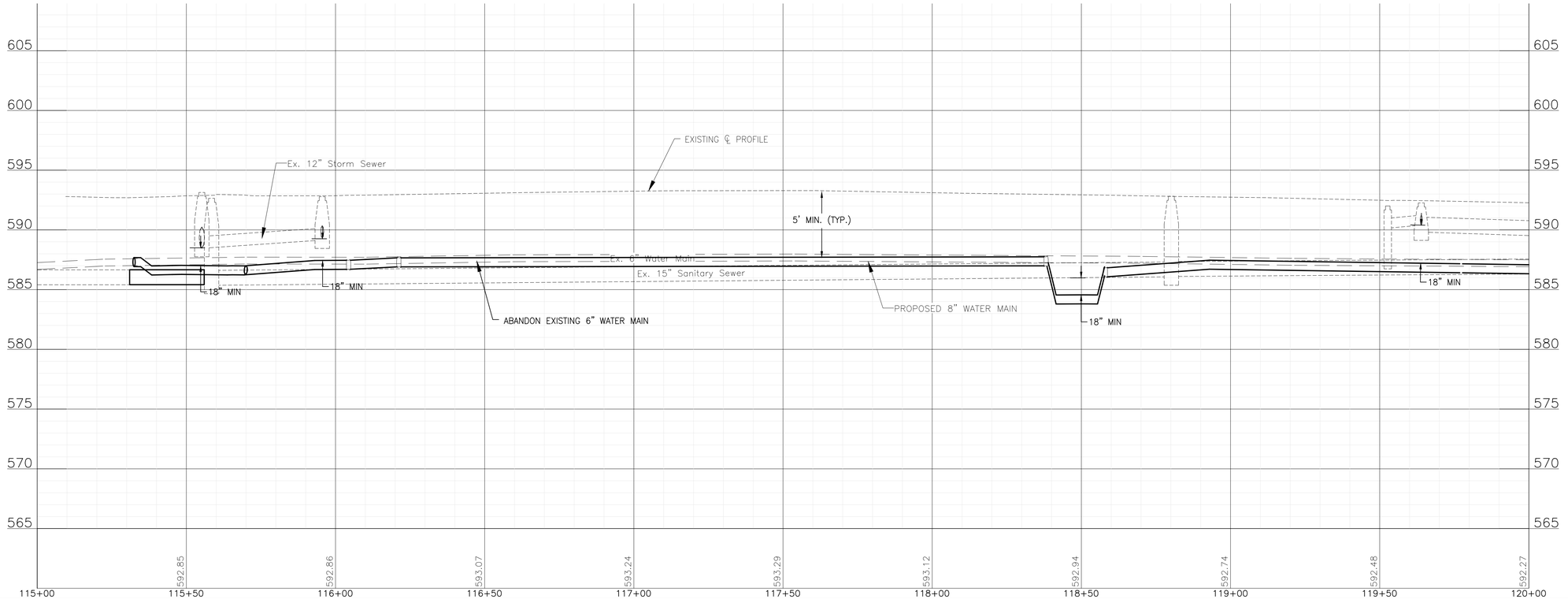
NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

MORAN STREET

NORTH HICKORY STREET

SEE SHEET 12

MATCH LINE STA. 120+00



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

NORTH HICKORY STREET STA. 115+00 TO STA. 120+00 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM			
CHECKED – LMS		24	11
DATE – 10/26/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 115+00.00
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NOTE:
WATER SERVICES: (5) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

WATER SERVICE LINE (TYP.)

185 L.F. OF 8" WATER MAIN

ABANDON EXISTING 6" WATER MAIN

41 L.F. OF 8" RJT WATER MAIN, (1) 8" VALVE IN 4' DIA VAULT, (1) 8" TEE

ABANDON EXISTING FIRE HYDRANT

SEE SHEET 13
FOR DESCRIPTION OF WATER MAIN WORK

SEE SHEET 16
FOR DESCRIPTION OF WATER MAIN WORK

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.

FOR CONTINUATION SEE SHEET 16

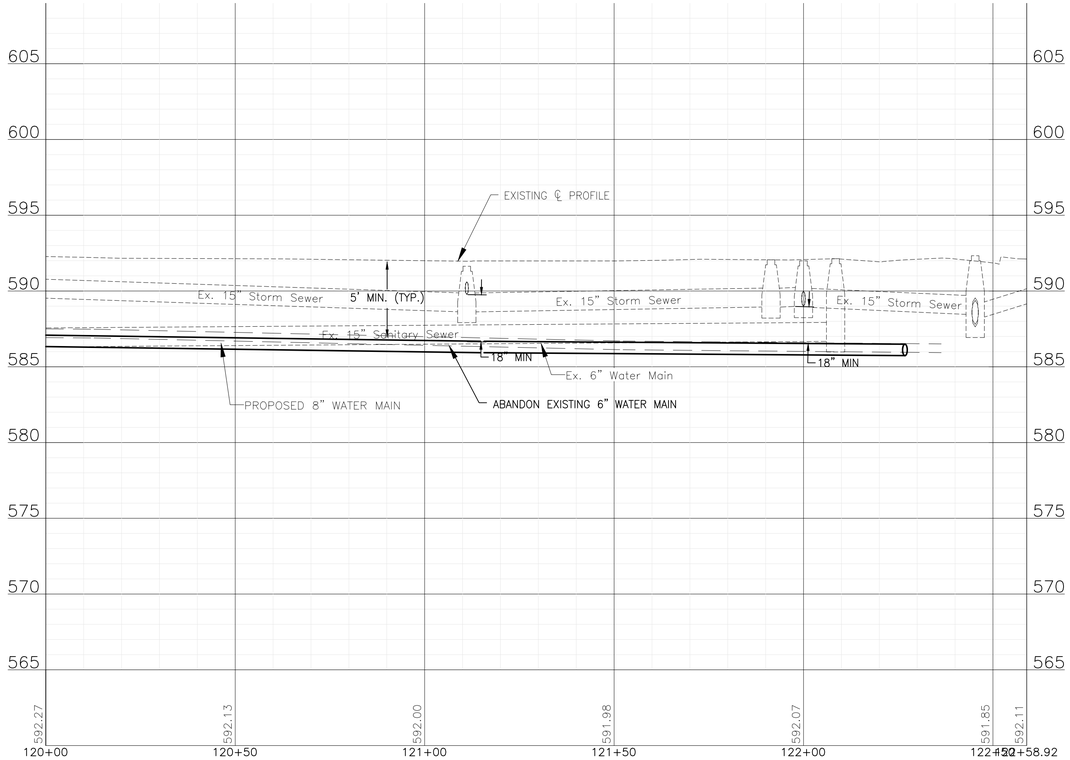
FOR CONTINUATION SEE SHEET 13

SEE SHEET 11

MATCH LINE STA. 120+00

NORTH HICKORY STREET

HUTCHINS STREET



FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

NORTH HICKORY STREET STA. 120+00 TO STA. 123+00 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM		24	12
CHECKED – LMS			
DATE – 10/26/2023			

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 120+00.00
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FOR CONTINUATION SEE SHEET 16

HUTCHINS STREET

SEE SHEET 16
FOR DESCRIPTION OF WATER MAIN WORK

ABANDON EXISTING 6" WATER MAIN

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

263 L.F. OF 8" WATER MAIN

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

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

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

TREE ROOT PRUNING

TREE ROOT PRUNING

TREE ROOT PRUNING

WATER SERVICE LINE (TYP.)

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

ABANDON EXISTING FIRE HYDRANT

101 L.F. OF 8" WATER MAIN

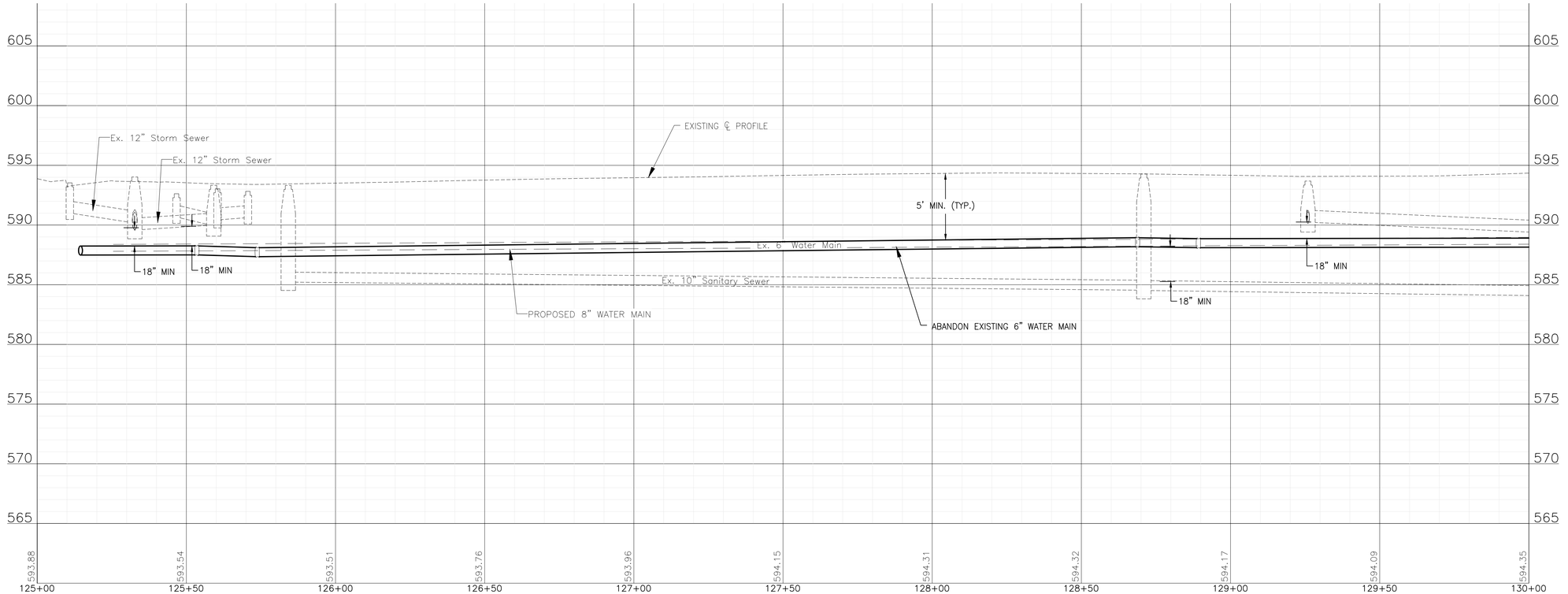
NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

MATCH LINE STA. 130+00

SEE SHEET 14

NORTH HICKORY STREET

FOR CONTINUATION SEE SHEET 16



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

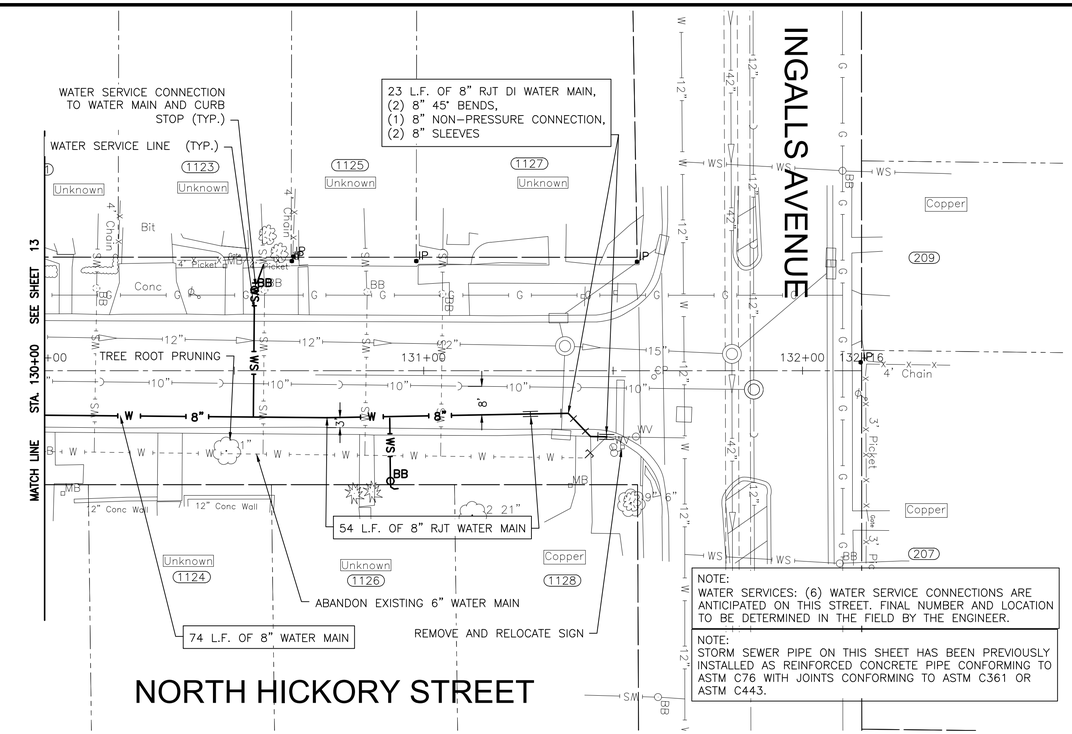
NORTH HICKORY STREET STA. 125+00 TO STA. 130+00 PLAN AND PROFILE

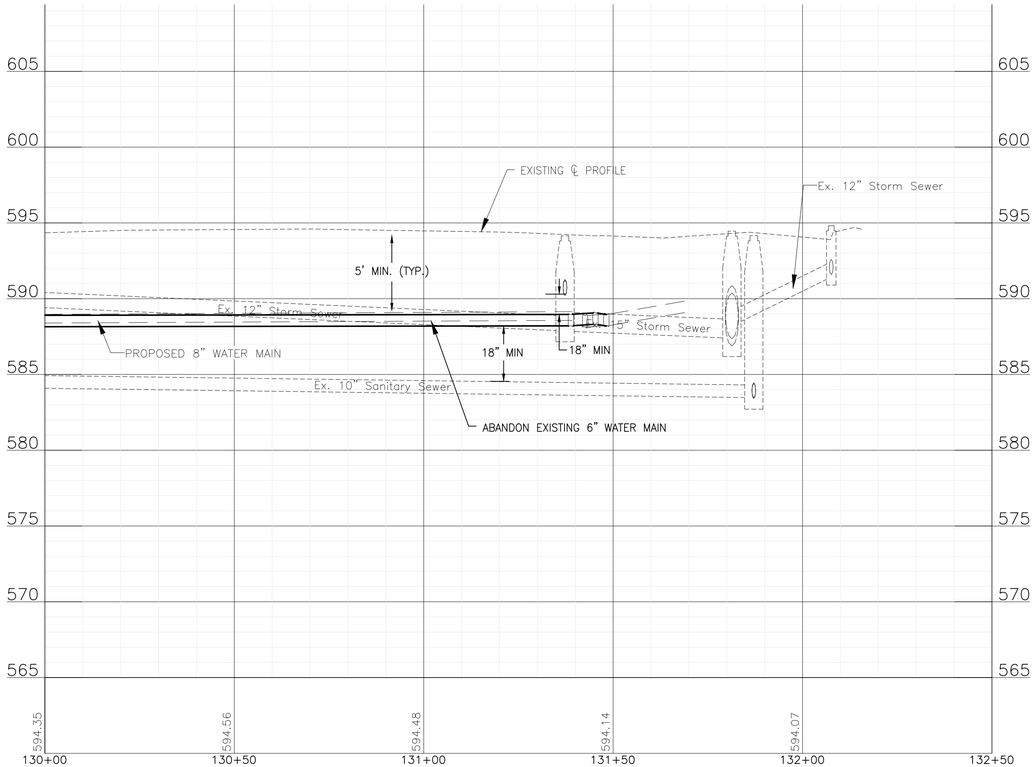
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 221587.40

DESIGNED – MJK	
DRAWN – JJS/AAM	
CHECKED – LMS	
DATE – 10/26/2023	

TOTAL SHEETS	SHEET NO.
24	13

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 125+00.00
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FOR BIDDING

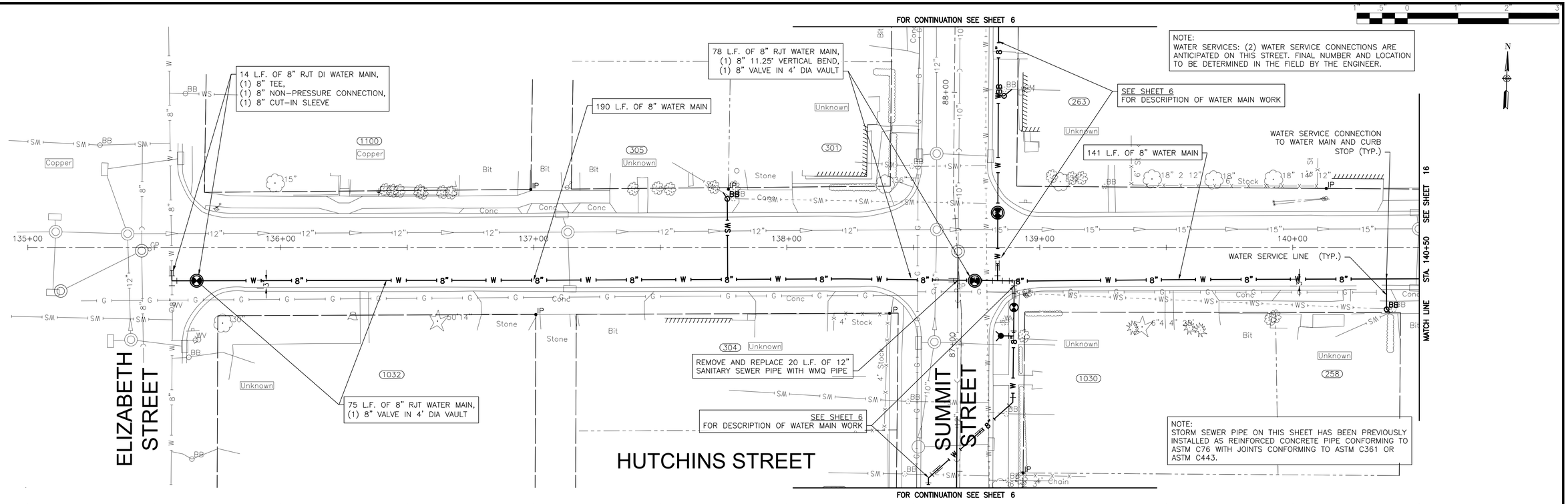
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

NORTH HICKORY STREET STA. 130+00 TO STA. 132+50 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM		24	14
CHECKED – LMS			
DATE – 10/26/2023			

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 130+00.00
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		REVISED –			TOTAL SHEETS: 24
		REVISED –			SHEET NO.: 15
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 221587.40	

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_DESIGN_SHEETS.DWG 135+00.00
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Plotted: 10/24/2023 11:16 AM By: ANACINO
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FOR CONTINUATION SEE SHEET 13

NORTH HICKORY STREET

SEE SHEET 15

STA. 140+50

MATCH LINE

SEE SHEET 13 FOR DESCRIPTION OF WATER MAIN WORK

ABANDON EXISTING 6" WATER MAIN

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

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

WATER SERVICE LINE (TYP.)

52 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN BOX,
(2) 8" 45° BENDS

22 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" x 8" PRESSURE CONNECTION,
(2) 8" 45° BENDS,
(1) VALVE BOX

116 L.F. OF 8" WATER MAIN

70 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA VAULT,
(1) 8" TEE

248 L.F. OF 8" WATER MAIN

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

SEE SHEET 12 FOR DESCRIPTION OF WATER MAIN WORK

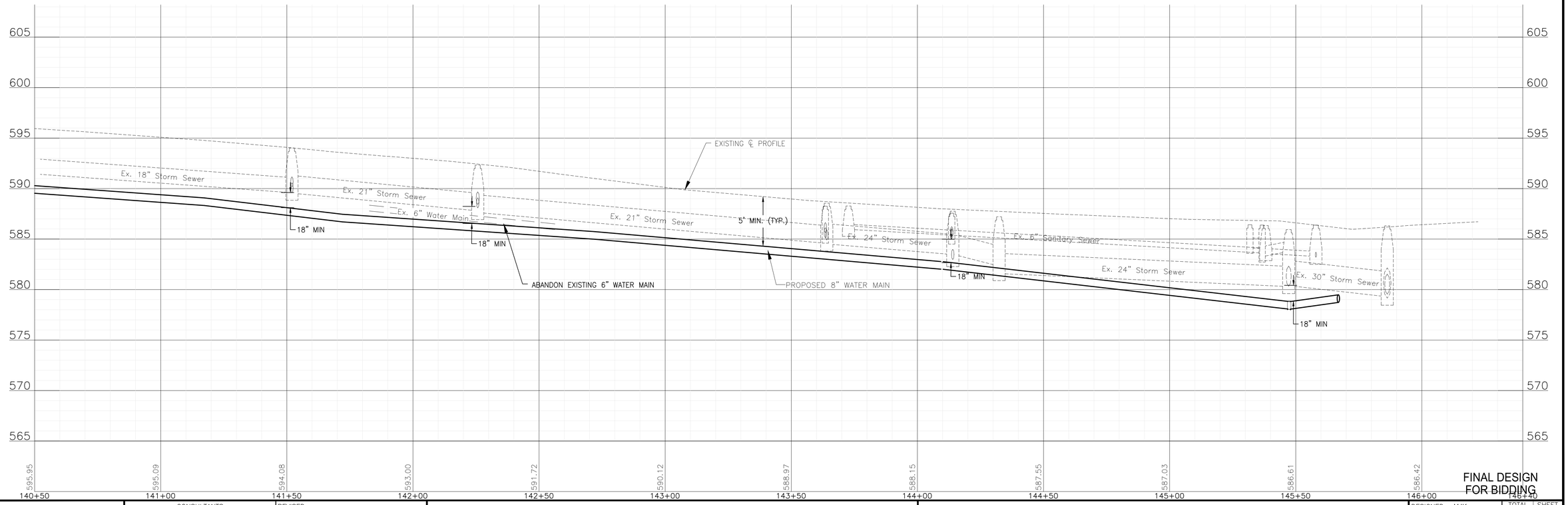
NOTE:
WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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.

HUTCHINS STREET

NORTH BROADWAY STREET

FOR CONTINUATION SEE SHEET 12



FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

HUTCHINS STREET STA. 140+50 TO STA. 146+50 PLAN AND PROFILE

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

PROJECT NO: 221587.40

DESIGNED – MJK	
DRAWN – JJS/AAM	
CHECKED – LMS	
DATE – 10/26/2023	

TOTAL SHEETS	SHEET NO.
24	16

FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 9

SEE SHEET 10
FOR DESCRIPTION OF WATER MAIN WORK

ABANDON EXISTING 6" WATER MAIN

203 L.F. OF 8" WATER MAIN

18 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" x 6" REDUCER,
(1) 6" SLEEVE,
(1) 6" NON-PRESSURE CONNECTION

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

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

SEE SHEET 9
FOR DESCRIPTION OF WATER MAIN WORK

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

WATER SERVICE LINE (TYP.)

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

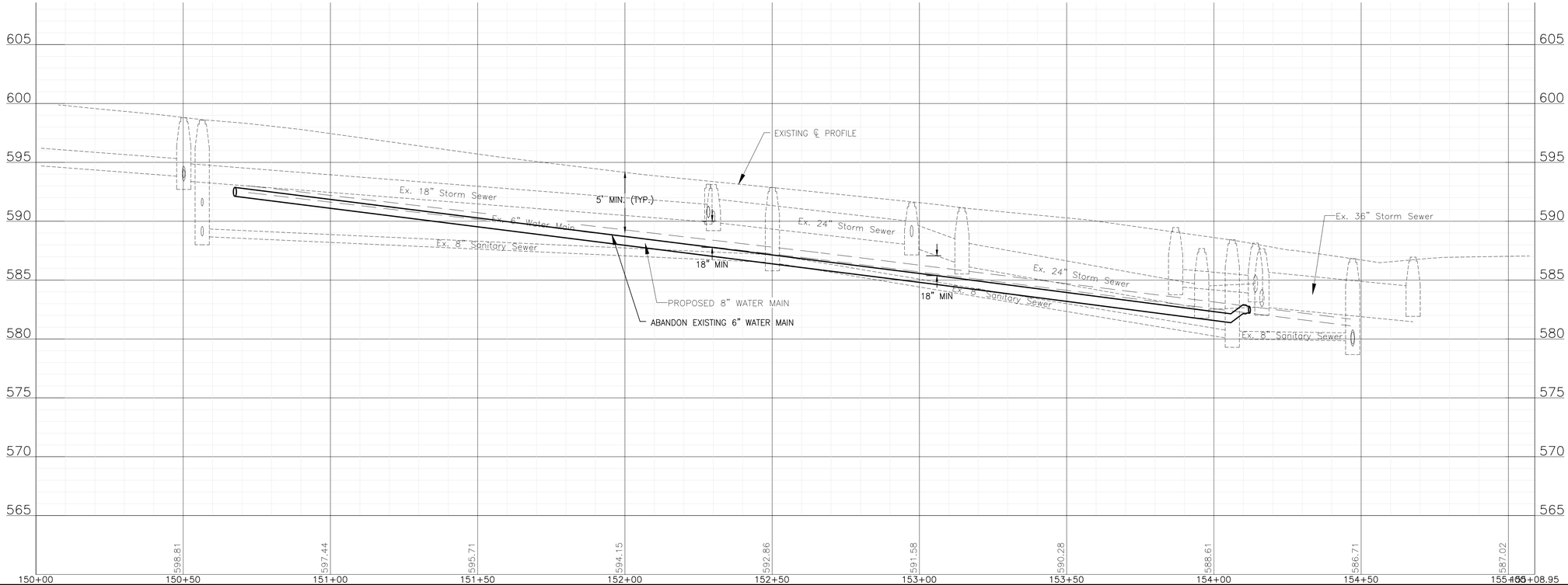
NORTH HICKORY STREET

FRANK AVENUE

NORTH BROADWAY STREET

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

NOTE:
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 –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

FRANK AVENUE STA. 150+00 TO STA. 155+50 PLAN AND PROFILE

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

PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM		24	17
CHECKED – LMS			
DATE – 10/26/2023			

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RUSSELL STREET

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.

ABANDON EXISTING VALVE BOX

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

49 L.F. OF 8" RJT WATER MAIN

220 L.F. OF 8" WATER MAIN

ABANDON EXISTING 8" WATER MAIN

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

75 L.F. OF 8" WATER MAIN

70 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA VAULT,
(1) 8" TEE

24 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE

REMOVE AND REPLACE 20 L.F. OF 12" STORM SEWER PIPE

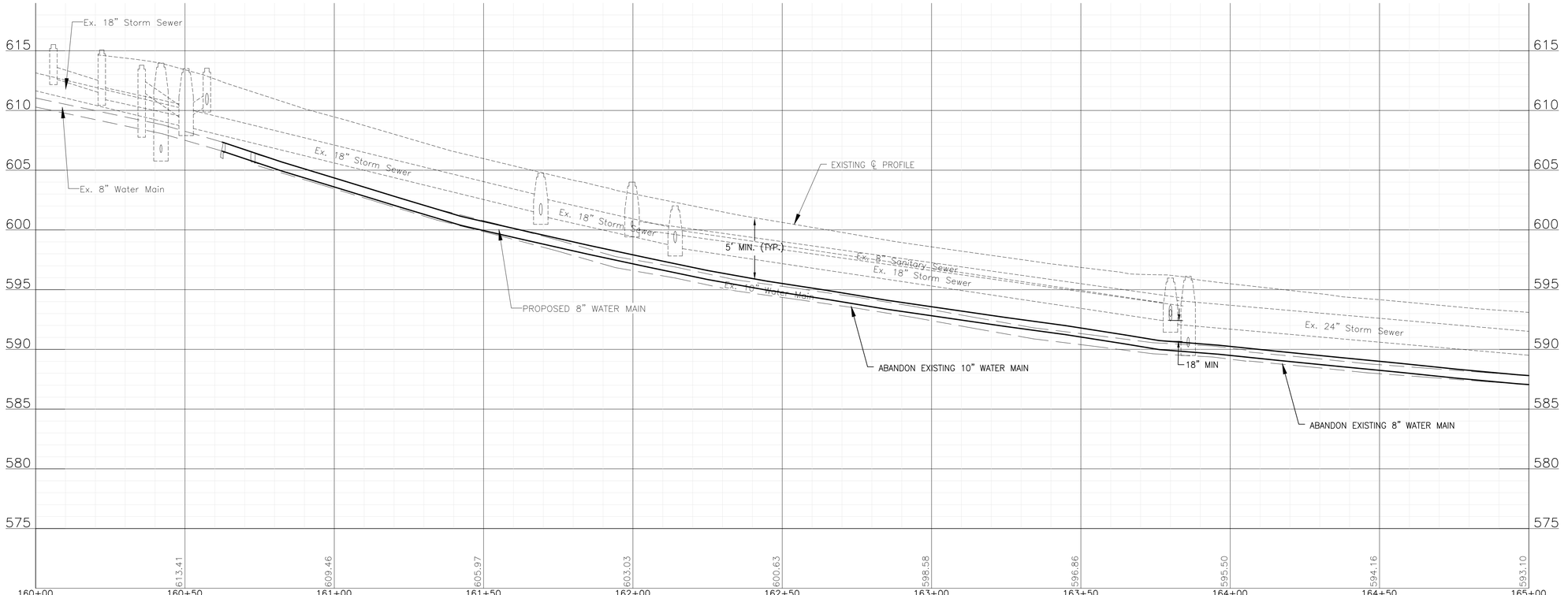
SEE SHEET 10
FOR DESCRIPTION OF WATER MAIN WORK

ELIZABETH STREET

NORTH HICKORY STREET

MATCH LINE STA. 165+00 SEE SHEET 19

FOR CONTINUATION SEE SHEET 10



FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

RUSSELL STREET STA. 160+00 TO STA. 165+00 PLAN AND PROFILE

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

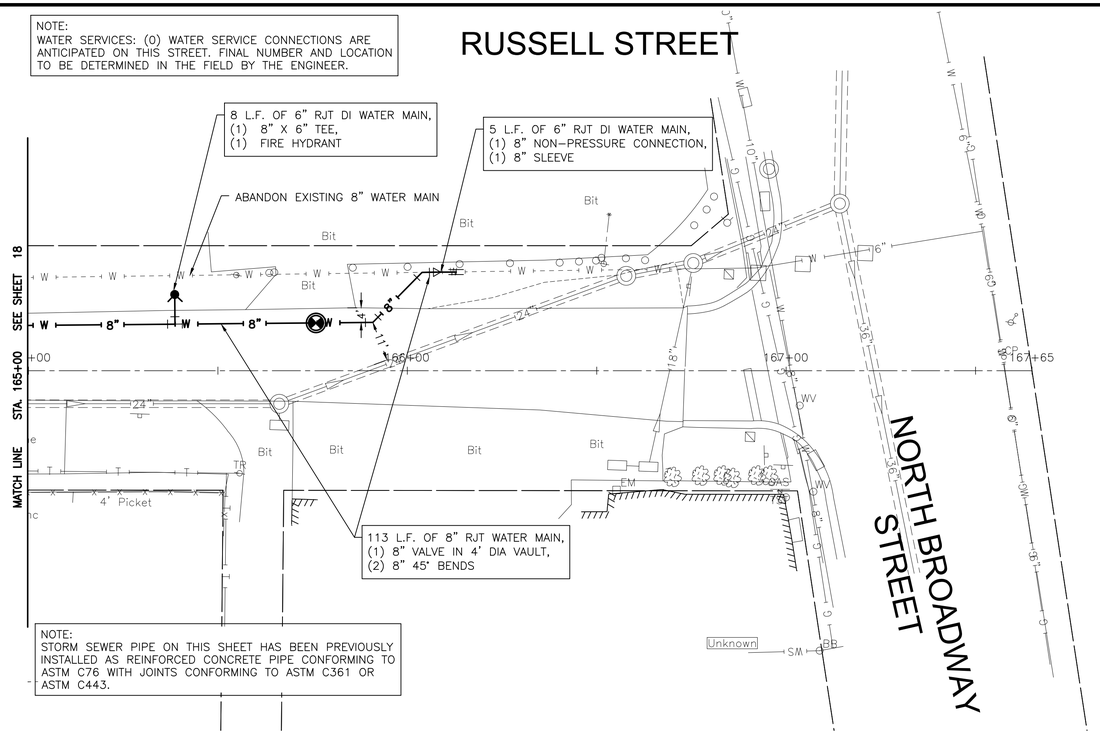
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DRAWN – JJS/AAM	
CHECKED – LMS	
DATE – 10/26/2023	

TOTAL SHEETS	SHEET NO.
24	18

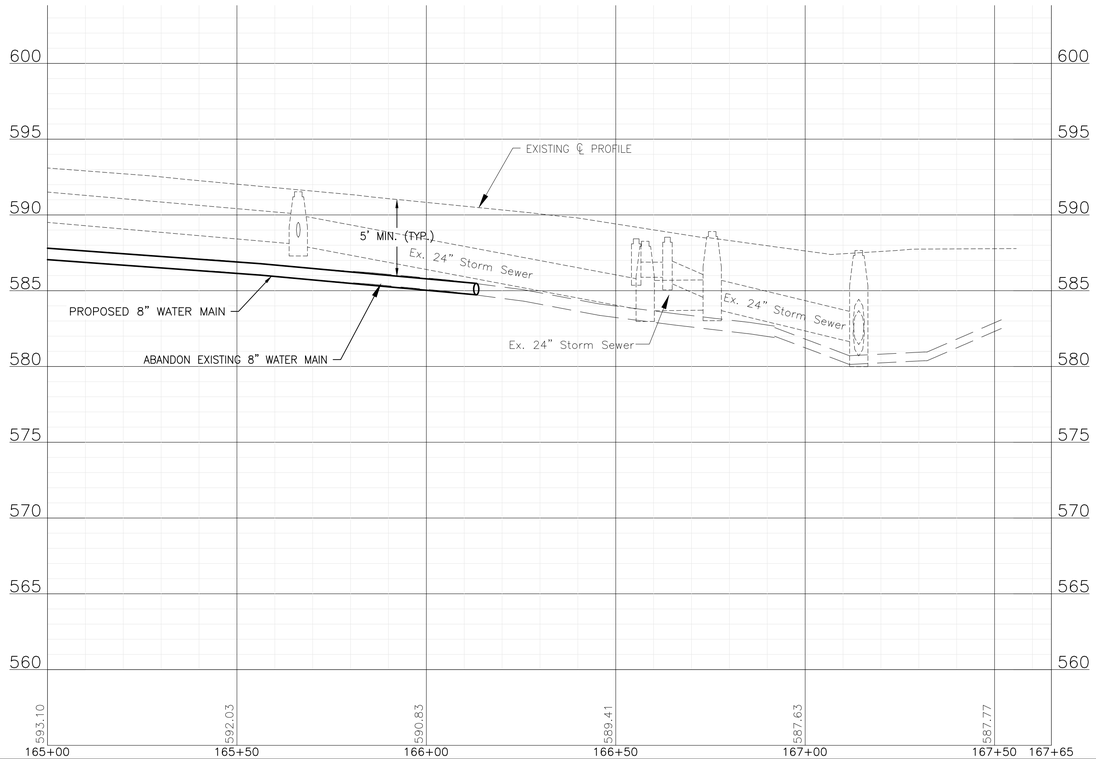
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NOTE:
WATER SERVICES: (0) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

RUSSELL STREET



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

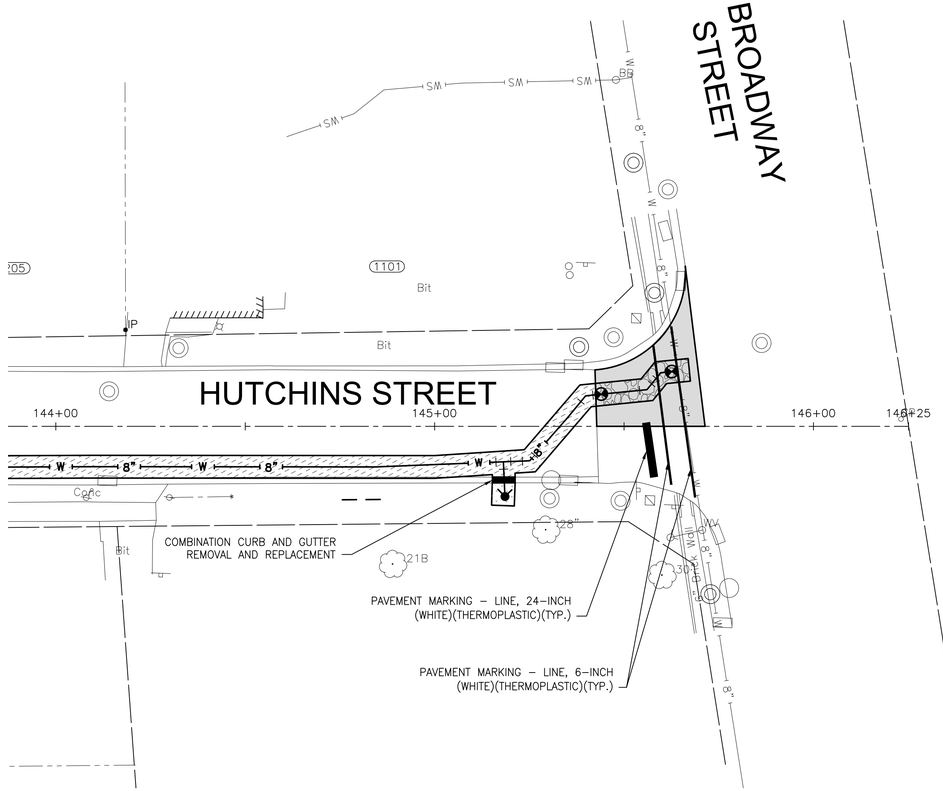
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2778-0124
		REVISED –	
		REVISED –	
		REVISED –	

RUSSELL STREET STA. 165+00 TO STA. 168+00 PLAN AND PROFILE

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

DESIGNED – MJK	TOTAL SHEETS	SHEET NO.
DRAWN – JJS/AAM	24	19
CHECKED – LMS		
DATE – 10/26/2023		

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RESTORATION LEGEND

- TRENCH AND TEMPORARY PAVEMENT
- CLASS B PATCH
- HMA REMOVAL AND REPLACEMENT
- RESTORATION OF LAWNS AND PARKWAYS

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

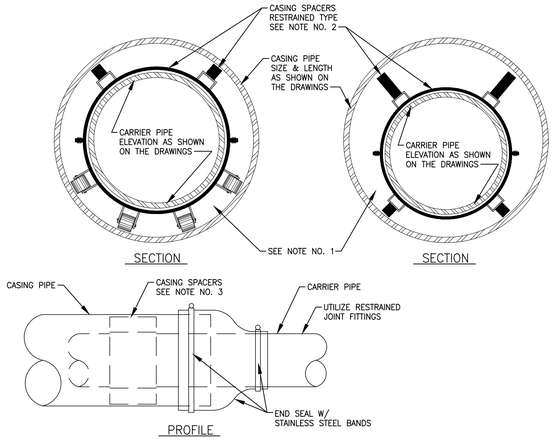
HUTCHINS STREET STA. 144+00 TO STA. 146+00 RESTORATION PLAN

SCALE: 1" = 20' | PROJECT NO: 221587.40

DESIGNED – MJK	
DRAWN – JJS/AAM	
CHECKED – LMS	
DATE – 10/26/2023	

TOTAL SHEETS	SHEET NO.
24	20

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5_RESTORATION_SHEETS.DWG RESTORATION 1
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NOTES

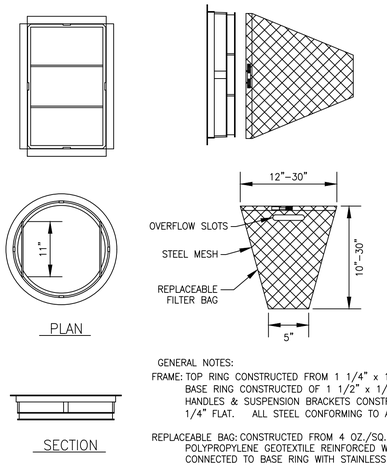
1. FILLING OF ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH SAND OR PEA GRAVEL IS NOT REQUIRED WHEN UTILIZING CASING SPACERS, UNLESS CONTRACTOR IS INSTRUCTED TO DO SO ON DRAWINGS OR IN SPECIFICATIONS.
2. WHERE CARRIER PIPE IS NOT CENTERED IN CASING PIPE, PROVIDE CASING SPACERS WITH LEGS THAT 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.

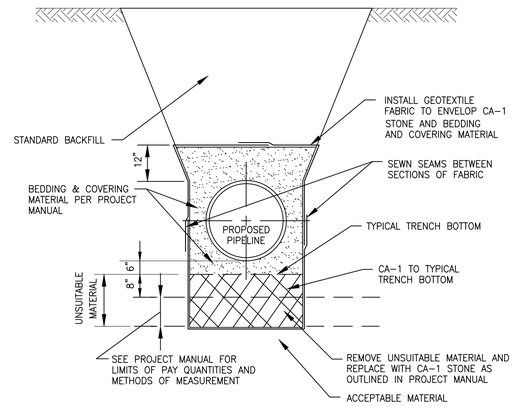
STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

INLET PROTECTION
FILTER DETAIL
GEN-02

DATE: OCT. 2017



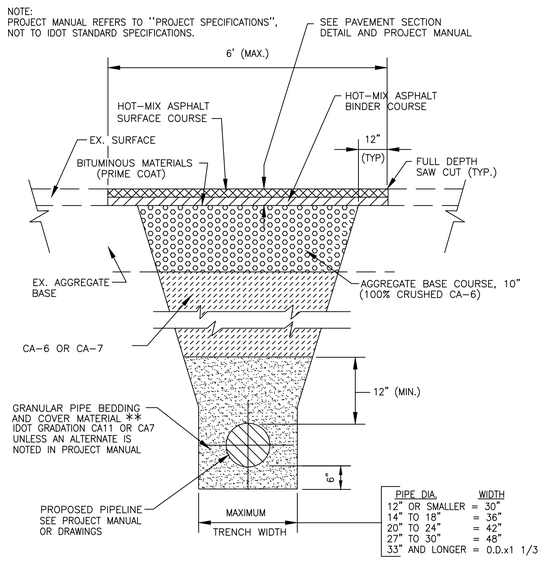
NOT TO SCALE

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.

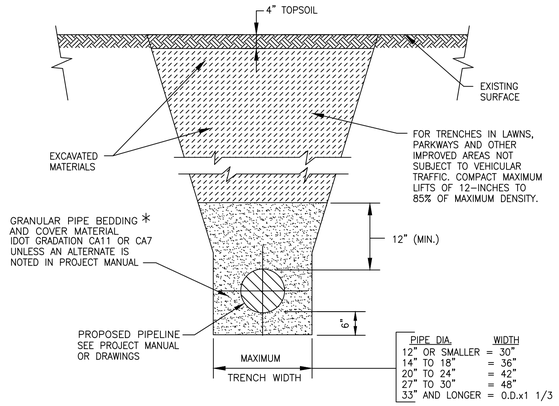
NOT TO SCALE

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

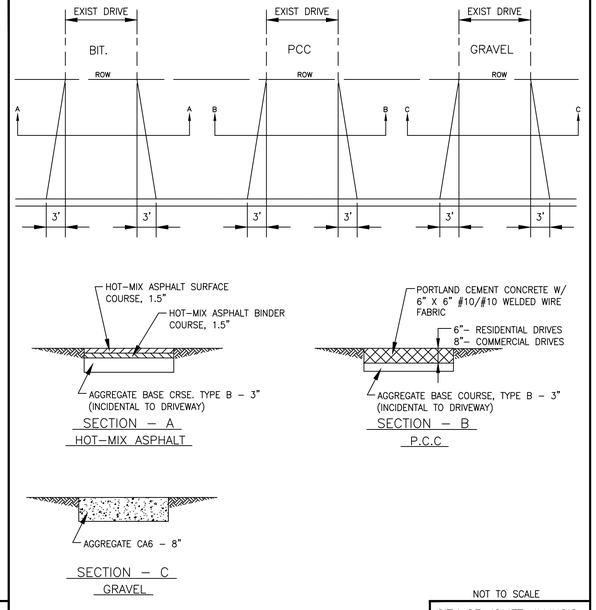
* FOR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II.
FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

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

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

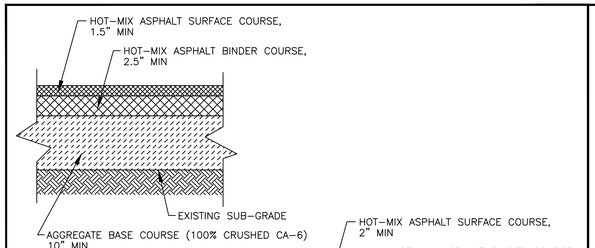
CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

CONSTRUCTION DETAILS

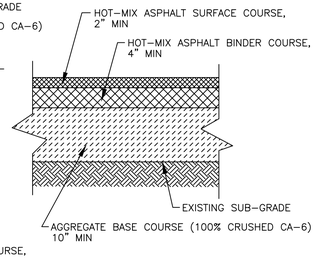
SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED - MJK			
DRAWN - JJS/AAM			
CHECKED - LMS		24	21
DATE - 10/26/2023			

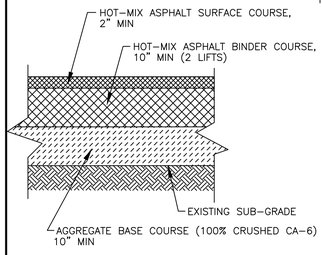
P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5B_COVER_GEN_DETS.DWG DETAILS
Plotted: 10/25/2023 6:13 PM By: AMAKKAOUI
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MINOR RESIDENTIAL STREETS



ARTERIAL STREETS



MAJOR ARTERIAL STREETS

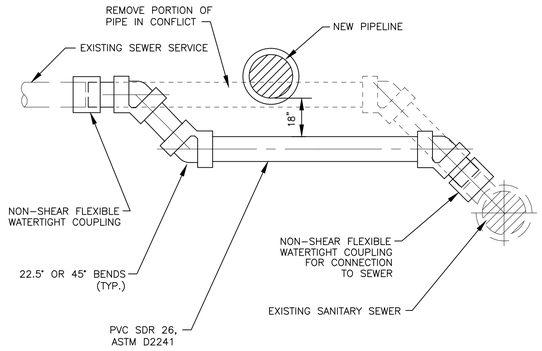
NOTES:
1. ALL PAVEMENT PATCHES SHALL BE SAWCUT FULL-DEPTH.
2. MAXIMUM ALLOWABLE WIDTH USED FOR TRENCH RESTORATION PAY QUANTITY CALCULATIONS SHALL BE 6'.
3. DETAILS APPLY UNLESS OTHERWISE NOTED ON PLANS.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL PAVEMENT SECTION
PVT-02

DATE: OCT. 2017

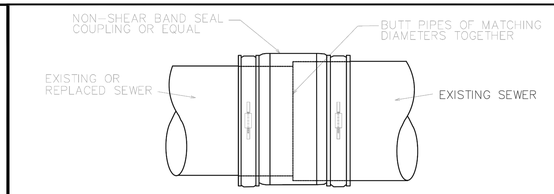


NOT TO SCALE

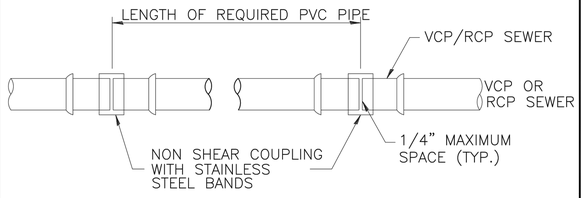
CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE RELOCATION
SAN-03

DATE: OCT. 2017



PIPE COUPLING DETAIL



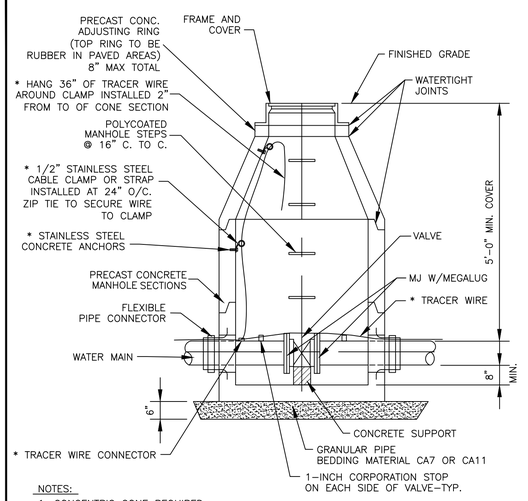
NOTES:
1. CONNECTION TO CIPP LINING SHALL BE NON-SHEAR COUPLINGS THAT ARE MADE SPECIFICALLY TO FIT THE OUTSIDE DIAMETER OF CURED-IN-PLACE PIPE (CIPP)

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

CONNECTING SEWER PIPES OF DISSIMILAR MATERIAL
SAN-14

DATE: NOVEMBER 2022



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.

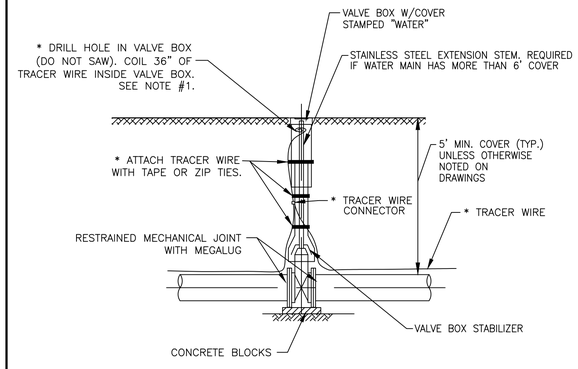
* FOR PVC WATER MAIN INSTALLATION ONLY

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.

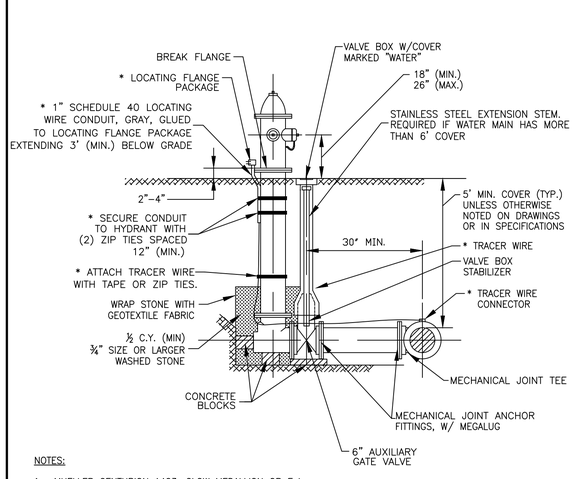
* FOR PVC WATER MAIN INSTALLATION ONLY

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

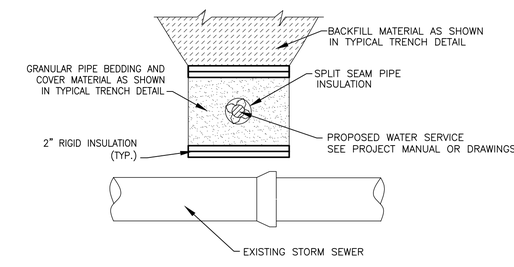
* FOR PVC WATER MAIN INSTALLATION ONLY

NOT TO SCALE

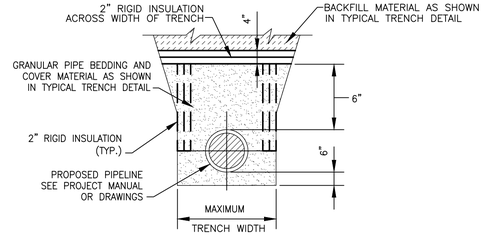
CITY OF JOLIET, ILLINOIS

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

FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN consulting engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

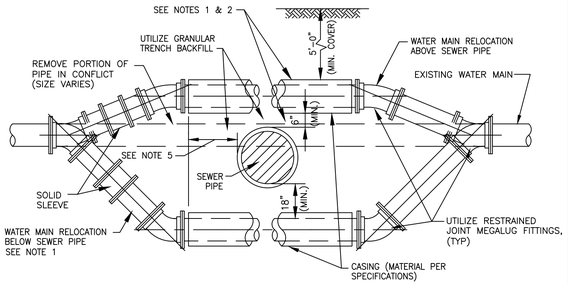
CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 221587.40

		TOTAL SHEETS	SHEET NO.
DESIGNED – MJK			
DRAWN – JJS/AAM			
CHECKED – LMS		24	22
DATE – 10/26/2023			

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5B_COVER_GEN_DETS.DWG DETAILS (2)
Plotted: 10/25/2023 6:13 PM By: AMAKKAOUI
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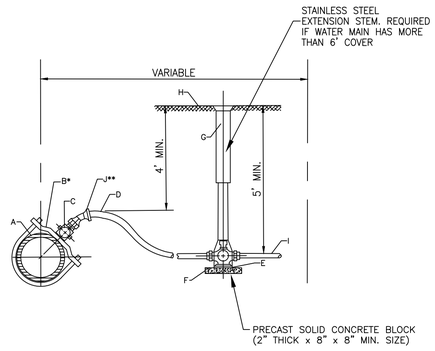
NOTES:
1. ONLY TO BE USED IF WATER MAIN CANNOT CROSS ABOVE PROPOSED SEWER AND MAINTAIN THE REQUIRED 18" OF SEPARATION AS SHOWN ON DRAWING, OR APPROVED BY ENGINEER IN FIELD.
2. WHEN WATER MAIN CROSSES ABOVE SEWER AND MAINTAINS THE REQUIRED 18" OF SEPARATION, THE CASING PIPE IS NOT REQUIRED.
3. WATER MAIN 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

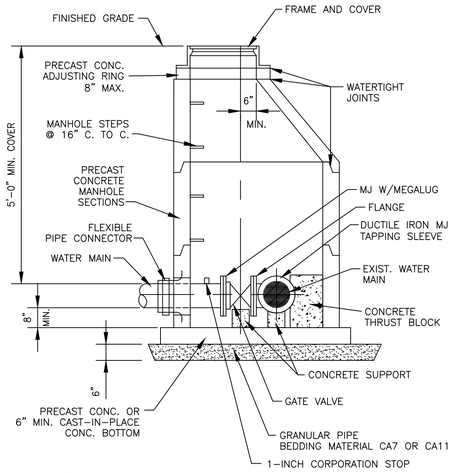
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

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

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

CONSULTANTS

REVISED –
REVISED –
REVISED –
REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

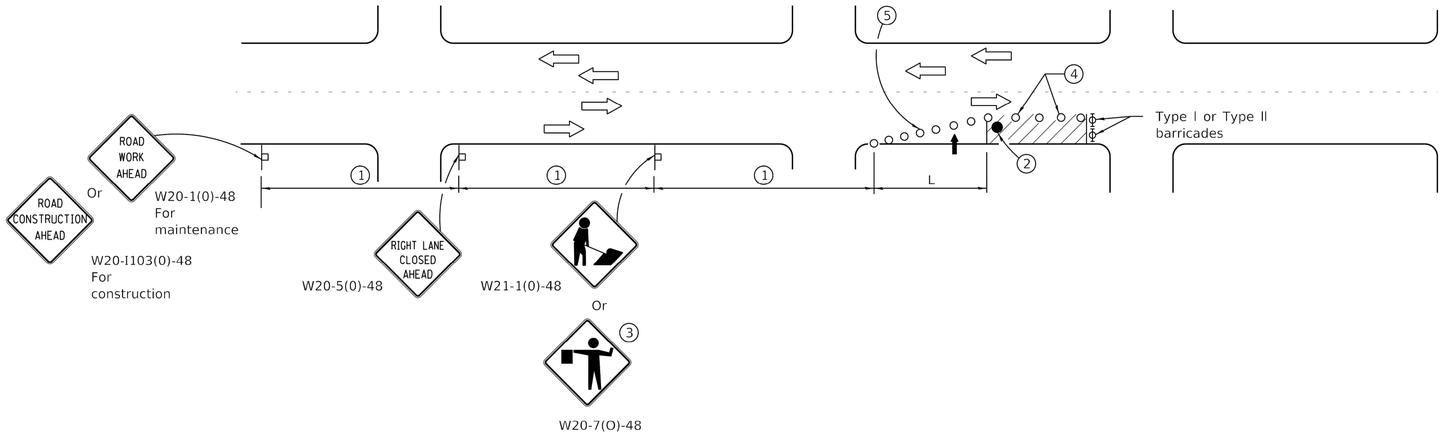
CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 221587.40

DESIGNED – MJK
DRAWN – JJS/AAM
CHECKED – LMS
DATE – 10/26/2023

TOTAL SHEETS: 24
SHEET NO.: 23

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Plotted: 10/23/2023 6:13 PM By: AMAKKAOUI
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SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Arrow board
- Cone, drum or barricade
- Sign on portable or permanent support
- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign.

1. Refer to SIGN SPACING TABLE for distances.
2. Required for speeds > 40 mph.
3. Use flagger sign only when flagger is present.
4. Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
5. Cones, drums or barricades at 20' (6 m) centers in taper.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an Urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2015
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-15	Renamed standard. Moved
	case on Sheet 2 to new
	Highway Standard.
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.

URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

STANDARD 701606-10

FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS | REVISED – | REVISED – | REVISED – | REVISED –

CITY OF JOLIET, ILLINOIS
GARNSEY PARK PHASE 5B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2778-0124

IDOT STANDARD DETAILS

SCALE: AS NOTED | PROJECT NO: 221587.40

DESIGNED – MJK
DRAWN – JJS/AAM
CHECKED – LMS
DATE – 10/26/2023

TOTAL SHEETS: 24 | SHEET NO.: 24

P:\JOLTC\221587-2024 WATER MAIN SURV\CAD\GARNSEY PARK PHASE 5\01_CIVIL 3D\01_SHTS-PLANS\221587-GARNSEY PARK PHASE 5B_COVER_GEN_DETS.DWG IDOT DETAILS
Plotted: 10/23/2023 6:13 PM By: AMAKKAOUI
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