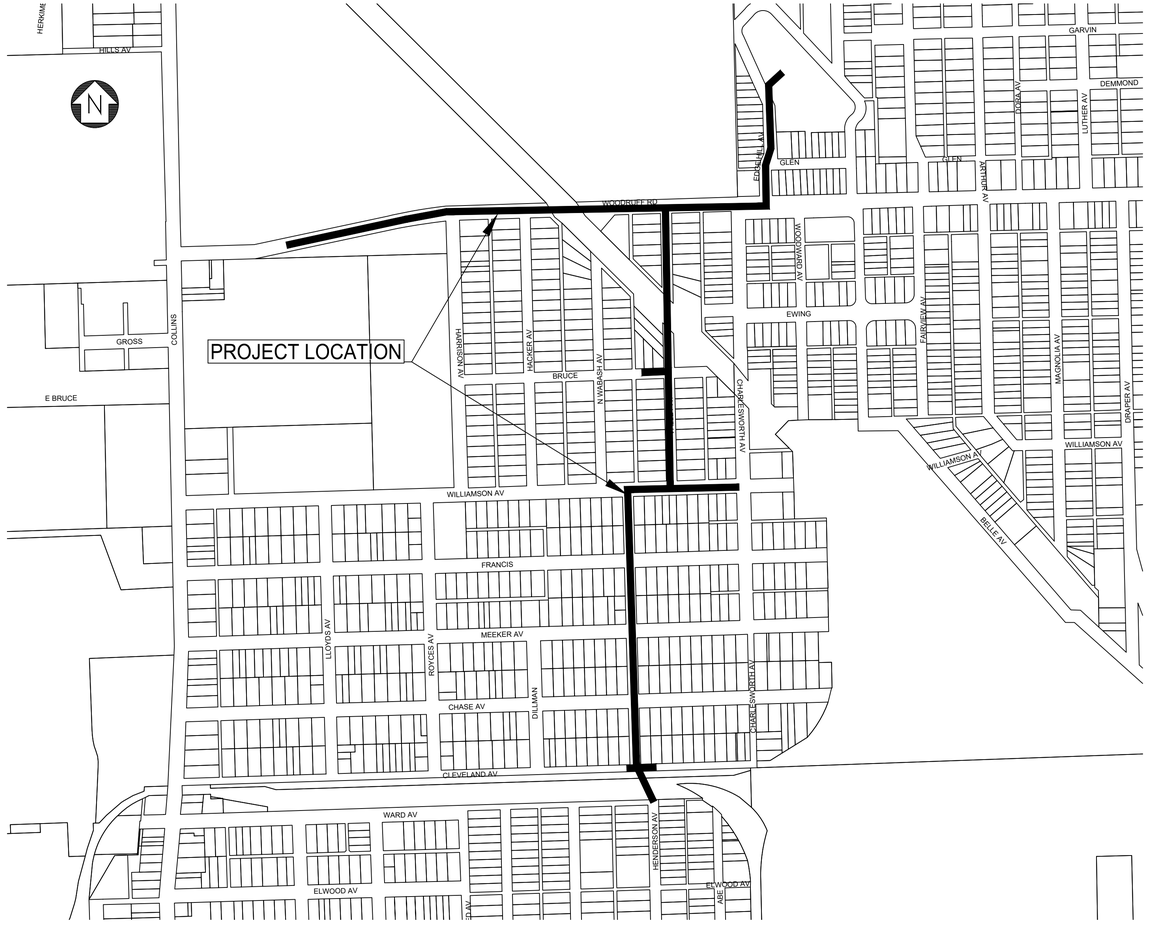
FOR BIDDING
FINAL DESIGN

CITY OF JOLIET, ILLINOIS

HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2871-0325



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
G000	COVER
G001	SHEET KEY
G002	LEGEND, BENCHMARKS AND ABBREVIATIONS
G003	GENERAL NOTES AND SUMMARY OF QUANTITIES
G004	MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION
G005	NB&SB HENDERSON AVE DETOUR ROUTE
G006	EB & WB WOODRUFF ROAD DETOUR ROUTE
C001	HENDERSON AVENUE STA. 9+50 TO STA. 15+00 PLAN AND PROFILE
C002	HENDERSON AVENUE STA. 15+00 TO STA. 20+00 PLAN AND PROFILE
C003	HENDERSON AVENUE STA. 20+00 TO STA. 24+72 PLAN AND PROFILE
C004	WILLIAMSON AVENUE STA. 30+00 TO STA 33+50 PLAN AND PROFILE
C005	WILLIAMSON AVENUE STA. 33+50 TO STA. 36+50 PLAN AND PROFILE
C006	VALLEY AVENUE STA. 40+00 TO STA. 45+00
C007	VALLEY AVENUE STA. 45+00 TO STA. 50+00 PLAN AND PROFILE
C008	VALLEY AVENUE STA. 50+00 TO STA. 54+00 PLAN AND PROFILE
C009	WOODRUFF ROAD STA. 60+00 TO STA. 65+00 PLAN AND PROFILE
C010	WOODRUFF ROAD STA. 65+00 TO STA. 70+00 PLAN AND PROFILE
C011	WOODRUFF ROAD STA. 70+00 TO STA. 75+00 PLAN AND PROFILE
C012	WOODRUFF ROAD STA. 75+00 TO STA. 80+00 PLAN AND PROFILE
C013	WOODRUFF ROAD STA. 80+00 TO STA. 84+00 PLAN AND PROFILE
C014	CLEVELAND AVENUE STA. 100+00 TO STA. 102+70 PLAN AND PROFILE
C015	CHASE AVENUE STA. 105+00 TO STA. 106+90 PLAN AND PROFILE
C016	MEEKER AVENUE STA. 110+00 TO STA. 111+60 PLAN AND PROFILE
C017	FRANCIS STREET STA. 115+00 TO STA. 116+70 PLAN AND PROFILE
C018	BRUCE STREET STA. 120+00 TO STA. 122+20 PLAN AND PROFILE
C019	DENNIS COURT PLAN
C020	EDGEHILL AVENUE STA. 100+00 TO STA. 104+50 PLAN AND PROFILE
C021	FAIRMOUNT STREET WTP STA. 104+50 TO STA. 109+50 PLAN AND PROFILE
C022	FAIRMOUNT STREET WTP STA. 109+50 TO STA. 114+00 PLAN AND PROFILE
C023	FAIRMOUNT STREET WTP STA. 200+00 TO STA. 202+30 PLAN AND PROFILE
C024	CONSTRUCTION DETAILS
C025	CONSTRUCTION DETAILS
C026	CONSTRUCTION DETAILS
C027	CONSTRUCTION DETAILS

J.U.L.I.E. DESIGN STATE REQUEST
DIG NO. X240041189

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.

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

COPYRIGHT © 2024, BY BAXTER & WOODMAN, INC.
ALL RIGHTS RESERVED. NO PART OF THESE DRAWINGS MAY BE REPRODUCED, OR OTHERWISE REVISED WITHOUT WRITTEN PERMISSION OF BAXTER & WOODMAN, INC.

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

PETER M. KOLAK
062-71499
LICENSED PROFESSIONAL ENGINEER
OF
STATE OF ILLINOIS

PROJECT MANAGER
"LICENSE EXPIRES 11-30-2023"

PROJECT ENGINEER

CHRISTOPHER F. BUCKLEY
062-053720
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS

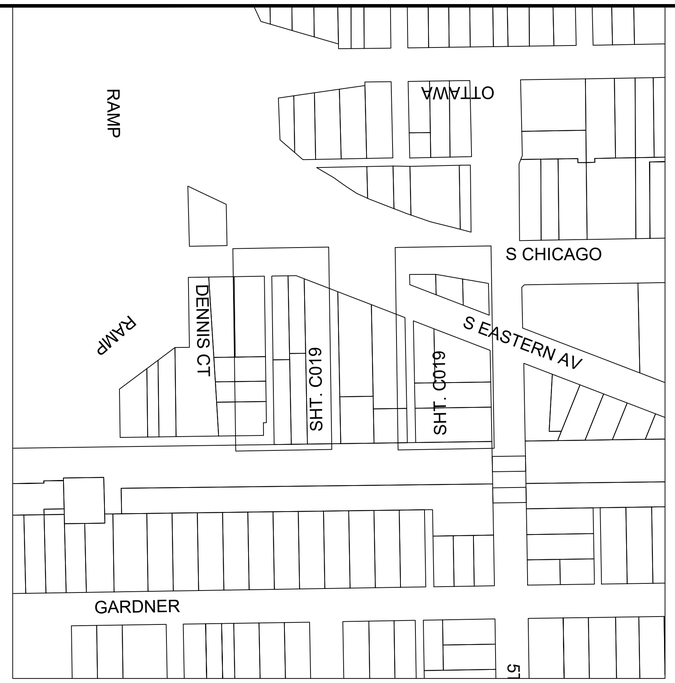
PROJECT MANAGER, SHEETS C020-C024
01/13/25
EXPIRES: 11/30/2025
SHEETS C020-C024

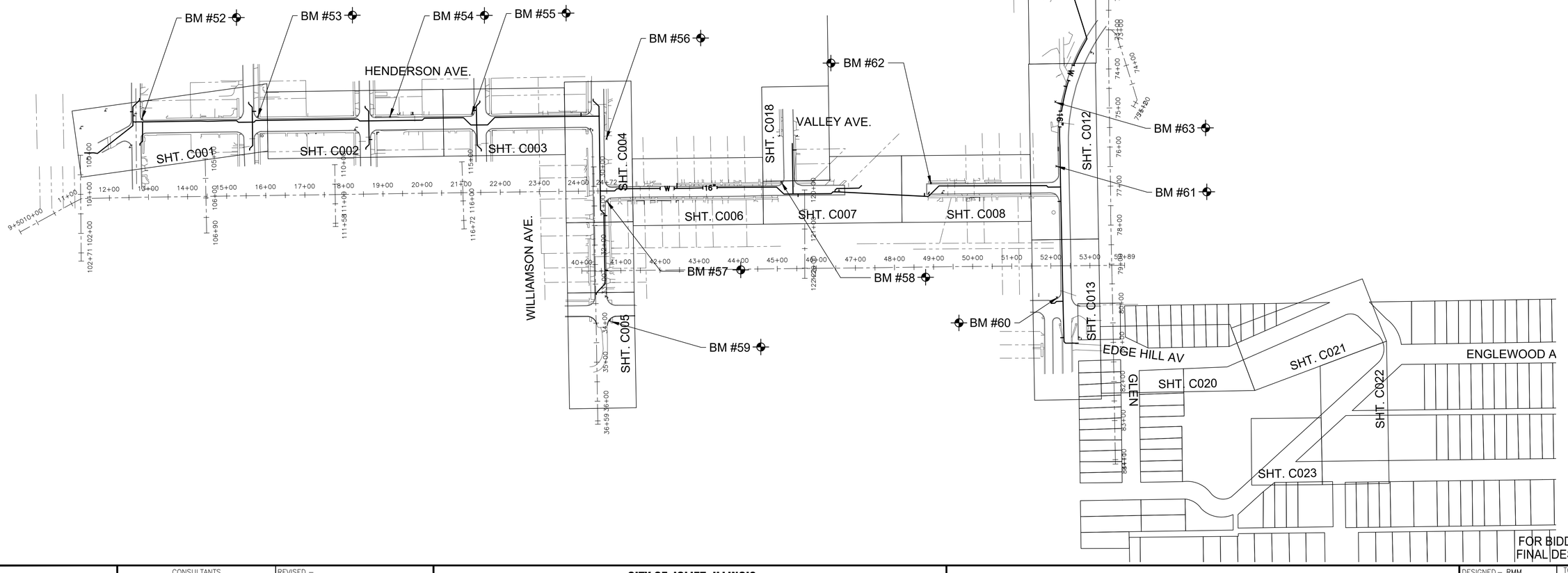
BAXTER & WOODMAN
Consulting Engineers
www.baxterwoodman.com

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

PROJECT NO.: 2325880.00 DATE: 01/31/2025

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-COVER_SHEETS.DWG Cover
Plotted: 1/27/2025 4:57 PM By: RMOELLER





P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-SHEET_KEY.DWG sheet key
Plotted: 1/27/2025 4:58 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

BAXTER & WOODMAN consulting engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

SHEET KEY

SCALE: AS NOTED | PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS		34	G001
CHECKED – PMK			
DATE – 01/31/2025			

LEGEND

EXISTING		PROPOSED
	SANITARY SEWER OR SERVICE	
	STORM SEWER OR SERVICE	
W W	WATER MAIN OR SERVICE	W W
FM FM	FORCE MAIN	FM 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	
	WATER VALVE VAULT	
BB	WATER SERVICE BOX OR CURB STOP	BB
	WATER TEE FITTING	
	WATER SLEEVE FITTING	
	WATER 90° FITTING	
	WATER 45° FITTING	
	WATER REDUCER FITTING	
	CAP FITTING	
	WATER CROSS FITTING	
WM	WATER METER	
SEPTIC	CLEAN OUT	
	SEPTIC VENT	
	TO BE ABANDONED AND/OR REMOVED	
	STRUCTURE TO BE ABANDONED	
G 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 T	TELEPHONE CABLE	
TD TD	TELEPHONE DUCT	
TEL	TELEPHONE VAULT	
TR	TELEPHONE RISER	
CTV CTV	CABLE TELEVISION (BURIED)	
CTV	CABLE T.V. RISER	
CTV	CABLE T.V. VAULT	
E 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 X X	FENCE	
O O O	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
DL DL	DITCH	
EXIST. R.O.W.	RIGHT OF WAY (ROW)	
ROW	RIGHT OF WAY MONUMENT	
P.L. 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 OH	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

BENCHMARKS (NAVD 88 DATUM)

B.M. # 52 — RAILROAD SPIKE SET IN SOUTHEAST FACE OF POWER POLE LOCATED AT NORTHWEST CORNER OF CLEVELAND AVENUE AND HENDERSON AVENUE
ELEV. = 553.72

B.M. # 53 — RAILROAD SPIKE SET IN SOUTH SOUTHEAST FACE OF POWER POLE LOCATED AT NORTHWEST CORNER OF HENDERSON AVENUE AND CHASE AVENUE
ELEV. = 553.19

B.M. # 54 — RAILROAD SPIKE SET IN EAST FACE OF POWER POLE ON WEST SIDE OF HENDERSON AVENUE OPPOSITE OF ADDRESS 701 MEEKER AVENUE
ELEV. = 553.50

B.M. # 55 — RAILROAD SPIKE SET IN NORTHEAST FACE OF POWER POLE LOCATED ON SOUTHWEST CORNER OF HENDERSON AVENUE AND FRANCIS STREET
ELEV. = 551.52

B.M. # 56 — RAILROAD SPIKE SET IN SOUTH FACE OF POWER POLE LOCATED ON NORTH SIDE OF STREET OPPOSITE OF ADDRESS 702 WILLIAMSON AVENUE
ELEV. = 551.93

B.M. # 57 — RAILROAD SPIKE SET IN SOUTH FACE OF POWER POLE LOCATED AT SOUTHEAST CORNER OF VALLEY AVENUE AND WILLIAMSON AVENUE
ELEV. = 553.44

B.M. # 58 — RAILROAD SPIKE SET IN EAST FACE OF POWER POLE LOCATED AT SOUTHWEST CORNER OF VALLEY AVENUE AND BRUCE STREET
ELEV. = 552.74

B.M. # 59 — LARGE PK NAIL SET IN EAST FACE OF POWER POLE LOCATED AT SOUTHEAST CORNER OF WILLIAMSON AVENUE AND CHARLESWORTH AVENUE
ELEV. = 552.18

B.M. # 60 — RAILROAD SPIKE SET IN NORTHEAST FACE OF POWER POLE W/ LIGHT LOCATED AT SOUTHWEST CORNER PARKWAY OF CHARLESWORTH AVENUE AND WOODRUFF ROAD
ELEV. = 559.45

B.M. # 61 — RAILROAD SPIKE SET IN NORTHEAST FACE OF FIRST POWER POLE LOCATED EAST OF VALLEY AVENUE ON SOUTH SIDE OF WOODRUFF ROAD
ELEV. = 557.17

B.M. # 62 — SURVEY NAIL SET IN EAST FACE OF POWER POLE W\ LIGHT LOCATED AT SOUTHEAST CORNER OF VALLEY AVENUE 100 FEET WEST OF ADDRESS 1122 VALLEY AVENUE
ELEV. = 555.31

B.M. # 63 — RAILROAD SPIKE SET IN NORTHWEST FACE OF THE THIRD POWER POLE LOCATED EAST OF VALLEY AVENUE ON SOUTH SIDE OF WOODRUFF ROAD
ELEV. = 556.84

B.M. # 64 — RAILROAD SPIKE SET IN SOUTH FACE OF POWER POLE W/ LIGHT LOCATED AT THE NORTH SIDE OF WOODRUFF ROAD AT THE FIRST POLE EAST OF HARRISON AVENUE
ELEV. = 556.27

B.M. # 66 — RAILROAD SPIKE SET IN SOUTH FACE OF POWER POLE LOCATED ON THE NORTH SIDE OF WOODRUFF ROAD AT THE SOUTHEAST CORNER OF ADDRESS 515 WOODRUFF ROAD
ELEV. = 558.11

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

FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-COVER_SHEETS.DWG Legend
Plotted: 1/27/2025 4:58 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

LEGEND, BENCHMARKS AND ABBREVIATIONS

SCALE: AS NOTED | PROJECT NO: 2325880.00

DESIGNED – RMM
DRAWN – JJS
CHECKED – PMK
DATE – 01/31/2025

TOTAL SHEETS: 34
SHEET NO.: G002

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. CONTRACTOR SHALL COORDINATE WITH COMED FOR POLE RELOCATION WHERE NOTED ON THE PLANS AND FOR TEMPORARY BRACING IN AREAS WHERE THE TRENCH IS WITHIN 4.5–9' OF UTILITY POLES.

4. 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.

5. 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".

6. 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.

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

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

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

10. 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.

11. 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.

12. 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.

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

14. 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.

15. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH AWWA C504 FOR PRESSURE CLASS 150B, CAST IRON BODY, RUBBER–SEATED, TIGHT CLOSING TYPE SUITABLE FOR BURIED SERVICE. ACCEPTABLE VALVE MANUFACTURERS ARE CLOW AND PRATT.

16. 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.

17. 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.

18. 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.

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

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

- LOUISE RAY PARKWAY SHALL HAVE 7 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
- HENDERSON AVENUE, WILLIAMSON AVENUE, WOODRUFF ROAD, AND CHARLESWORTH AVENUE SHALL HAVE 4 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
- CLEVELAND AVENUE, BRUCE STREET, VALLEY AVENUE, CHASE AVENUE, MEEKER AVENUE, AND FRANCIS STREET SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.

25. 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.

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

27. 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.

28. 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	PART B	TOTAL
1	TRAFFIC CONTROL AND PROTECTION (5% LIMIT)	LSUM	1	0	1
2	GRANULAR TRENCH BACKFILL	CUYD	5,800	320	6,120
3	WATER MAIN (OPEN CUT), 4–INCH DI	FOOT	0	546	546
4	WATER MAIN (OPEN CUT), 6–INCH DI	FOOT	292	10	302
5	WATER MAIN (OPEN CUT), 8–INCH	FOOT	252	0	252
6	WATER MAIN (OPEN CUT), 8–INCH DI	FOOT	767	4	771
7	WATER MAIN (OPEN CUT), 10–INCH DI	FOOT	49	0	49
8	WATER MAIN (OPEN CUT), 12–INCH DI	FOOT	45	0	45
9	WATER MAIN (OPEN CUT), 16–INCH DI	FOOT	4,312	0	4,312
10	WATER MAIN (OPEN CUT), 24–INCH DI	FOOT	2,045	0	2,045
11	WATER MAIN (IN JACKED CASING), 16–INCH DI IN 36–INCH CASING	FOOT	140	0	140
12	WATER MAIN (IN BORED CASING), 16–INCH DI IN 36–INCH CASING	FOOT	336	0	336
13	CASING PIPE (OPEN CUT), 16–INCH	FOOT	95	0	95
14	CASING PIPE (OPEN CUT), 30–INCH	FOOT	85	0	85
15	CASING PIPE (OPEN CUT), 36–INCH	FOOT	60	0	60
16	MISCELLANEOUS FITTINGS	POUND	11,000	250	11,250
17	CONNECT TO WATER MAIN (NON–PRESSURE), 4–INCH	EACH	0	1	1
18	CONNECT TO WATER MAIN (NON–PRESSURE), 6–INCH	EACH	9	0	9
19	CONNECT TO WATER MAIN (NON–PRESSURE), 8–INCH	EACH	1	1	2
20	CONNECT TO WATER MAIN (NON–PRESSURE), 10–INCH	EACH	3	0	3
21	CONNECT TO WATER MAIN (NON–PRESSURE), 16–INCH	EACH	2	0	2
22	CONNECT TO WATER MAIN (NON–PRESSURE), 24–INCH	EACH	2	0	2
23	CONNECT TO WATER MAIN (PRESSURE), 6–INCH X 6–INCH	EACH	1	0	1
24	GATE VALVE, 4–INCH	EACH	0	2	2
25	GATE VALVE, 8–INCH	EACH	13	0	13
26	GATE VALVE, 12–INCH	EACH	1	0	1
27	BUTTERFLY VALVE, 16–INCH	EACH	11	0	11
28	BUTTERFLY VALVE, 24–INCH	EACH	6	0	6
29	VALVE BOX	EACH	5	1	6
30	VALVE VAULT, 4–FOOT DIAMETER	EACH	12	1	13
31	VALVE VAULT, 5–FOOT DIAMETER	EACH	13	0	13
32	VALVE VAULT, 6–FOOT DIAMETER	EACH	2	0	2
33	VALVE VAULT (SPECIAL), 8–FOOT X 12–FOOT	EACH	1	0	1
34	VALVE VAULT (ADDITIONAL DEPTH), 4–FOOT DIAMETER	VFT	2	0	2
35	VALVE VAULT (ADDITIONAL DEPTH), 5–FOOT DIAMETER	VFT	2	0	2
36	VALVE VAULT (ADDITIONAL DEPTH), 6–FOOT DIAMETER	VFT	2	0	2
37	FIRE HYDRANT	EACH	19	2	21
38	FIRE HYDRANT BARREL EXTENSION	VFT	2	0	2
39	LINE STOP, 4–INCH	EACH	0	1	1
40	LINE STOP, 6–INCH	EACH	1	0	1
41	LINE STOP, 8–INCH	EACH	1	1	2
42	LINE STOP, 10–INCH	EACH	2	0	2
43	LINE STOP, 16–INCH	EACH	1	0	1
44	FILLING OF EXISTING PIPE FOR ABANDONMENT	CUYD	30	0	30
45	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1	0	1
46	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1–INCH	EACH	46	8	54
47	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5–INCH	EACH	1	0	1
48	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2–INCH	EACH	2	0	2
49	WATER SERVICE LINE TYPE K – OPEN CUT, 1–INCH	FOOT	325	60	385
50	WATER SERVICE LINE TYPE K – OPEN CUT, 1.5–INCH	FOOT	25	0	25
51	WATER SERVICE LINE TYPE K – OPEN CUT, 2–INCH	FOOT	43	0	43
52	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH	FOOT	1,035	340	1,375
53	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH	FOOT	35	0	35
54	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH	FOOT	35	0	35
55	WATER SERVICE CASING PIPE	FOOT	170	0	170
56	PROJECT MANAGEMENT	HOUR	18	18	36
57	WATER SERVICE LINE TYPE L, 3/4–INCH	FOOT	25	10	35
58	WATER SERVICE LINE TYPE L, 1–INCH	FOOT	50	60	110
59	WATER SERVICE LINE TYPE L, 1.5–INCH	FOOT	25	10	35
60	WATER SERVICE LINE TYPE L, 2–INCH	FOOT	25	10	35
61	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE	EACH	3	3	6
62	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB	EACH	3	3	6
63	UTILITY LOCATION – PRIVATE PROPERTY	EACH	6	6	12
64	WATER METER RELOCATION	EACH	3	3	6
65	WATER METER REPLACEMENT	EACH	3	3	6
66	LANDSCAPING PROJECT MANAGEMENT	HOUR	12	18	30
67	LANDSCAPING RESTORATION ALLOWANCE	EACH	6	6	12
68	SHRUB AND BRUSH DISPOSAL	EACH	12	12	24
69	CRIMP WATER SERVICE	EACH	0	6	6
70	CLEARING	LSUM	1	0	1
71	REMOVE AND REPLACE DRAIN TILES, 6–INCH THROUGH 12–INCH	FOOT	180	0	180
72	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	24	0	24
73	SANITARY SEWER REMOVAL AND REPLACEMENT, 8–INCH	FOOT	107	0	107
74	SANITARY SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	55	0	55
75	SANITARY SEWER, 12–INCH D3034 PVC	FOOT	330	0	330
76	TYPE A SANITARY MANHOLE, 4' DIA., 0 TO 8 FEET DEEP	EACH	3	0	3
77	TYPE A SANITARY MANHOLE, 4' DIA., 8 TO 12 FEET DEEP	EACH	1	0	1
78	STORM SEWER REMOVAL AND REPLACEMENT, 10–INCH	FOOT	10	0	10
79	STORM SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	5	0	5
80	EXPLORATORY EXCAVATION	EACH	16	0	16
81	INLET PROTECTION FILTER	EACH	40	2	42
82	RESTORATION OF LAWNS AND PARKWAYS	SQYD	6,000	300	6,300
83	SLOPE RESTORATION, IDOT CLASS 3 SEED	SQYD	1,724	0	1,724
84	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	2,001	0	2,001
85	TEMPORARY HOT–MIX ASPHALT PAVEMENT	SQYD	850	0	850
86	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 7–INCH BINDER 2–INCH SURFACE	SQYD	900	0	900
87	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 4–INCH BINDER 2–INCH SURFACE	SQYD	2,200	0	2,200
88	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	2,000	300	2,300
89	HOT–MIX ASPHALT SURFACE MILL AND OVERLAY OVER PATCHES, 1.5–INCH	SQYD	1,210	380	1,590
90	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3–INCH	SQYD	300	0	300
91	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH	SQYD	50	50	100
92	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	350	0	350
93	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,750	50	1,800
94	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	500	200	700
95	DETECTABLE WARNINGS	SQFT	40	0	40
96	PAVEMENT MARKING – LINE, 4–INCH (THERMOPLASTIC)	FOOT	620	0	620
97	PAVEMENT MARKING – LINE, 6–INCH (THERMOPLASTIC)	FOOT	960	0	960
98	PAVEMENT MARKING – LINE, 24–INCH (THERMOPLASTIC)	FOOT	230	0	230
99	PAVEMENT MARKING – LETTERS AND SYMBOLS	SQFT	70	0	70
100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	0	10
101	REMOVAL AND REPLACEMENT OF SIGNS	EACH	19	0	19
102	FENCE TO BE REMOVED AND RE–ERECTED	FOOT	50	10	60
103	TREE ROOT PRUNING	EACH	3	3	6
104	TREE TRIMMING	LSUM	1	0	1
105	REMOVE AND REPLACE GUARDRAIL	FOOT	89	0	89
106	DUST CONTROL	DAY	60	0	60
107	ROCK EXCAVATION	CUYD	1,250	200	1,450
108	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	89	7	96
109	SOIL TESTS FOR CONTAMINANTS	EACH	13	3	16
110	CONTAMINATED WASTE DISPOSAL	CUYD	89	16	105
111	RAILROAD CROSSING COORDINATION AND MOBILIZATION	LSUM	1	0	1

FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 2325880.00

DESIGNED – RMM
DRAWN – JJS
CHECKED – PMK
DATE – 01/31/2025

TOTAL SHEETS: 34 | SHEET NO.: G003

P:\JOLTC\2325880–2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS–PLANS\2325880–HEGGIE_PARK_P1–COVER_SHEETS.DWG Gen Notes
Plotted: 1/28/2025 11:44 AM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184–001121 – Expires 4–30–25

MAINTENANCE OF TRAFFIC NOTES

1. THE SUGGESTED MAINTENANCE OF TRAFFIC CONTROL IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED BY THE CURRENT VERSION OF THE IDOT HIGHWAY STANDARDS, THE CURRENT VERSION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
2. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK PRIOR TO THE START OF WORK FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNTIL PREPLANNED SEQUENCE OF WORK HAS BEEN APPROVED BY THE CITY. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO BUSINESSES AND MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE CITY AND/OR ENGINEER RESERVES THE RIGHT TO RESTRICT WORK IN ANY SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE OR TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE.
3. THE ENGINEER AND THE CITY SHALL BE NOTIFIED OF ANY CHANGES TO CONSTRUCTION STAGING. ALL CHANGES TO CONSTRUCTION STAGING MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
4. ALL LANE CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS.
5. ALL ROADWAY CLOSURES THAT LAST MORE THAN TWENTY (20) MINUTES THAT DO NOT HAVE A DETOUR IN PLACE REQUIRE A ROADWAY CLOSURE PERMIT APPROVED BY THE CITY PRIOR TO CLOSURE. THE ROADWAY CLOSURE PERMIT SHALL BE SUBMITTED TO THE CITY FOR REVIEW A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO THE ANTICIPATED CLOSURE. IF A ROADWAY IS TO BE CLOSED FOR NO MORE THAN TWENTY (20) MINUTES THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY DEPARTMENTS WITHIN THE CITY PRIOR TO ANY LANE CLOSURE. SEE SPECIFICATION SECTION 01 41 26 FOR DETAILS.
6. ALL TRENCHES, HOLES, AND PITS SHALL BE FILLED OR STEEL PLATED AT THE END OF EACH DAY.
7. REFER TO DISTRICT DETAIL TC-10 FOR SIGNAGE FOR TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS.
8. REFER TO DISTRICT DETAIL TC-21 FOR DETOUR SIGNAGE SPACING, EXCEPT AS INDICATED ON THE SUGGESTED DETOUR PLAN.
9. ALL FLAGGERS REQUIRED FOR MAINTENANCE OF TRAFFIC, INCLUDING ANY FLAGGERS NEEDED TO MAINTAIN TRAFFIC FOR SIDE STREETS AND COMMERCIAL DRIVEWAYS, SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
10. THE CONTRACTOR SHALL NOTIFY THE CITY OF JOLIET AT (815) 724-4230 AT LEAST 10 DAYS IN ADVANCE OF IMPLEMENTATION OF THE DETOUR ROUTE.
11. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND OTHER UTILITY CONTRACTORS TO AVOID DETOUR CONFLICTS.
12. EMERGENCY VEHICLE AND LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY SIGNIFICANT CHANGE IN TRAFFIC CONTROL SHALL HAVE A PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS' NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH IMPACT EMERGENCY SERVICES.
13. THE FURNISHING, INSTALLING, AND RELOCATING OF ALL TRAFFIC SIGNS WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
14. EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED SIGNS CAUSED BY THIS WORK SHALL BE REPLACED BY THE CONTRACTOR.
15. THE COST OF ADDITIONAL DEPLOYMENTS, SETUPS AND/OR MOBILIZATIONS NEEDED FOR STAGED CONSTRUCTION SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. CONSTRUCTION VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED OVERNIGHT WITHIN RIGHT-OF-WAY ADJACENT TO OR IN FRONT OF COMMERCIAL BUSINESS PROPERTIES. THE ENGINEER WILL ASSIST THE CONTRACTOR IN IDENTIFYING CONSTRUCTION STAGING LOCATIONS AT THE START OF CONSTRUCTION.
17. PROVIDE ACCESS TO PRIVATE DRIVEWAYS AT ALL TIMES EXCEPT DURING PIPELINE INSTALLATION ACROSS A DRIVEWAY. NOTIFY HOMEOWNERS OR BUSINESSES AT LEAST 24 HOURS, BUT NOT MORE THAN 48 HOURS IN ADVANCE OF AN ANTICIPATED DRIVEWAY CLOSURE, AND AGAIN JUST PRIOR TO CLOSING TO ALLOW HOMEOWNERS TO MOVE THEIR VEHICLES. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
18. ALL TRENCHES CROSSING DRIVEWAYS OR SIDEWALKS SHALL HAVE ACCESS RESTORED AT THE END OF THE WORK DAY.
19. ALL TRENCHES CROSSING EXISTING ROADWAYS OUTSIDE OF THE CLOSED LANES SHALL BE PATCHED OR PLATED AT THE END OF THE WORK DAY.
20. SEE SPECIFICATIONS FOR GRANULAR TRENCH BACKFILL AND PAVEMENT PATCHING REQUIREMENTS.
21. THE CONTRACTOR MUST OBTAIN PRIOR APPROVAL FROM THE CITY BEFORE COMPLETING NIGHT WORK ON THE WEEKENDS.
22. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFF SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. TEMPORARY CONCRETE BARRIER WALL IS SHOWN ON THE PLANS WHERE THE DROP-OFF REQUIREMENTS FOR USING BARRICADES CANNOT BE MET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFFS ALONG THE REMAINING AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.
23. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR UNTIL NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.

SEQUENCE OF CONSTRUCTION NOTES

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

IDOT STANDARD DRAWINGS

701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09 TRAFFIC CONTROL DEVICES
780001-05 TYPICAL PAVEMENT MARKINGS

IDOT DISTRICT ONE STANDARDS

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

FOR BIDDING
FINAL DESIGN

P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-COVER_SHEETS.DWG Mot Notes
Plotted: 1/27/2025 4:58 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

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

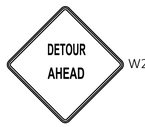
SCALE: AS NOTED | PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS		34	G004
CHECKED – PMK			
DATE – 01/31/2025			



W20-3-4848

①



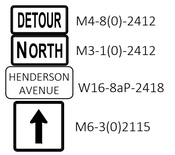
W20-2-4848

②



W20-3-4848

③



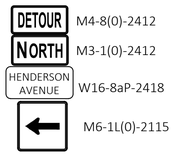
M4-8(0)-2412
M3-1(0)-2412
W16-8aP-2418
M6-3(0)2115

④



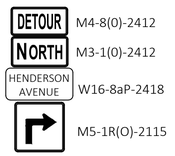
M4-8(0)-2412
M3-1(0)-2412
W16-8aP-2418
M5-1L(0)-2115

⑤



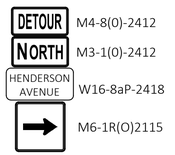
M4-8(0)-2412
M3-1(0)-2412
W16-8aP-2418
M6-1L(0)-2115

⑥



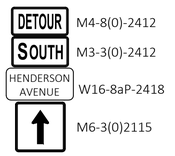
M4-8(0)-2412
M3-1(0)-2412
W16-8aP-2418
M5-1R(O)-2115

⑦



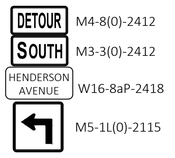
M4-8(0)-2412
M3-1(0)-2412
W16-8aP-2418
M6-1R(O)2115

⑧



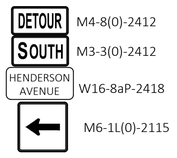
M4-8(0)-2412
M3-3(0)-2412
W16-8aP-2418
M6-3(0)2115

⑨



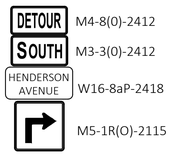
M4-8(0)-2412
M3-3(0)-2412
W16-8aP-2418
M5-1L(0)-2115

⑩



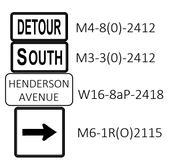
M4-8(0)-2412
M3-3(0)-2412
W16-8aP-2418
M6-1L(0)-2115

⑪



M4-8(0)-2412
M3-3(0)-2412
W16-8aP-2418
M5-1R(O)-2115

⑫



M4-8(0)-2412
M3-3(0)-2412
W16-8aP-2418
M6-1R(O)2115

⑬



M4-8A(O)-2418

⑭



R11-2-4830

⑮



M4-10R-4818

⑰



M4-10L-4818

⑱

LEGEND

- PROJECT LOCATION
- DIRECTION OF TRAFFIC
- DETOUR ROUTE
- SIGNAGE
- TYPE III BARRICADE WITH SIGN(S)

NOTES

1. DETOUR REQUIRED FOR WATER MAIN INSTALLATION IN HENDERSON AVE.
2. A MINIMUM OF 14 DAY IN ADVANCE OF THE ROAD CLOSURE, THE CONTRACTOR SHALL PLACE ONE (1) CHANGEABLE MESSAGE SIGN AT EACH CLOSED END OF THE PROJECT AS DIRECTED BY AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CLOSURE. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGNAGE WITH DETOUR SIGNAGE.
4. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –
		REVISED –
		REVISED –
		REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

NB&SB HENDERSON AVE DETOUR ROUTE

SCALE: 1" = 20' | PROJECT NO: 2325880.00

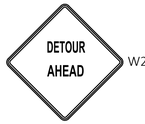
DESIGNED – RMM	TOTAL SHEETS	SHEET NO.
DRAWN – JJS		
CHECKED – PMK	34	G005
DATE – 01/31/2025		

P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-DETOUR ROUTES.DWG NB&SB HENDERSON AVE DETOUR
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By: Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



W20-3-4848

①



W20-2-4848

②



W20-3-4848

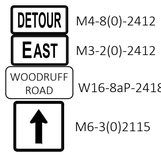
③

LEGEND

- PROJECT LOCATION
- DIRECTION OF TRAFFIC
- DETOUR ROUTE
- SIGNAGE
- TYPE III BARRICADE WITH SIGN(S)

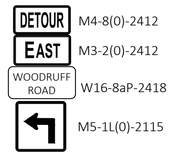
NOTES

1. DETOUR REQUIRED FOR WATER MAIN INSTALLATION IN WOODRUFF RD.
2. A MINIMUM OF 14 DAY IN ADVANCE OF THE ROAD CLOSURE, THE CONTRACTOR SHALL PLACE ONE (1) CHANGEABLE MESSAGE SIGN AT EACH CLOSED END OF THE PROJECT AS DIRECTED BY AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CLOSURE. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGNAGE WITH DETOUR SIGNAGE.
4. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.



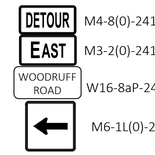
M4-8(0)-2412
M3-2(0)-2412
W16-8aP-2418
M6-3(0)2115

④



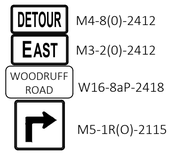
M4-8(0)-2412
M3-2(0)-2412
W16-8aP-2418
M5-1L(0)-2115

⑤



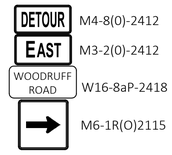
M4-8(0)-2412
M3-2(0)-2412
W16-8aP-2418
M6-1L(0)-2115

⑥



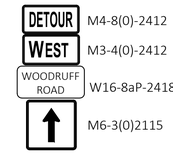
M4-8(0)-2412
M3-2(0)-2412
W16-8aP-2418
M5-1R(O)-2115

⑦



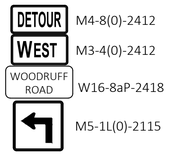
M4-8(0)-2412
M3-2(0)-2412
W16-8aP-2418
M6-1R(O)2115

⑧



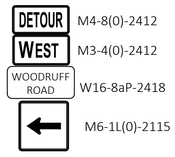
M4-8(0)-2412
M3-4(0)-2412
W16-8aP-2418
M6-3(0)2115

⑨



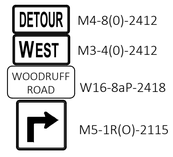
M4-8(0)-2412
M3-4(0)-2412
W16-8aP-2418
M5-1L(0)-2115

⑩



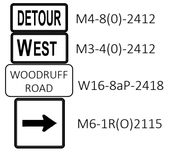
M4-8(0)-2412
M3-4(0)-2412
W16-8aP-2418
M6-1L(0)-2115

⑪



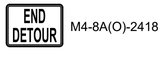
M4-8(0)-2412
M3-4(0)-2412
W16-8aP-2418
M5-1R(O)-2115

⑫



M4-8(0)-2412
M3-4(0)-2412
W16-8aP-2418
M6-1R(O)2115

⑬



M4-8A(O)-2418

⑭



R11-2-4830

⑮



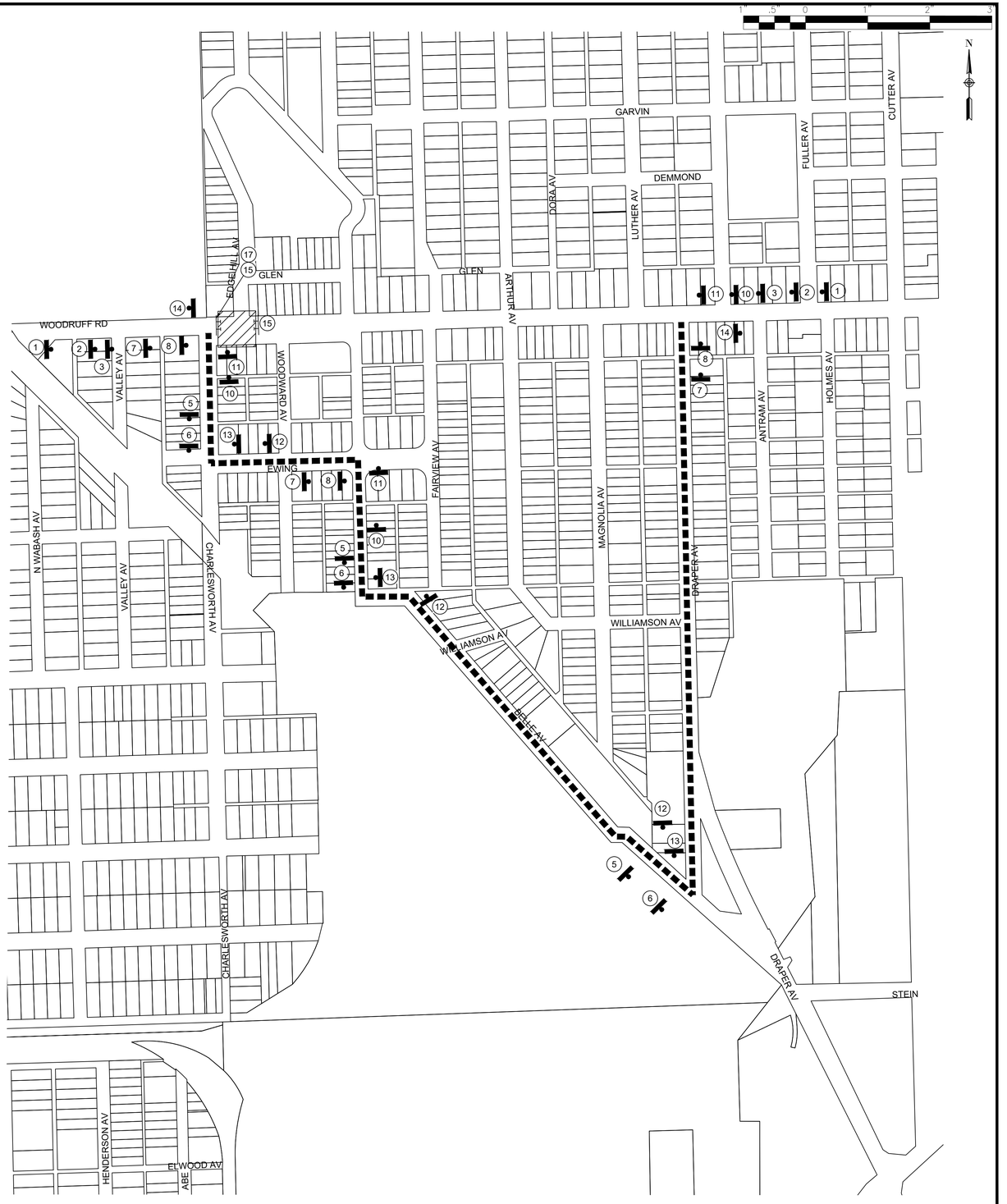
M4-10R-4818

⑰



M4-10L-4818

⑱



FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-DETOUR ROUTES.DWG EB & WB WOODRUFF ROAD DETOUR
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

EB & WB WOODRUFF ROAD DETOUR ROUTE

SCALE: 1" = 20' | PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS		34	G006
CHECKED – PMK			
DATE – 01/31/2025			

NOTE:
CANNOT MAINTAIN 50' SEPARATION BETWEEN PITS AND CENTERLINE OF TRACK DUE TO LOCATION OF PRIVATE DRIVEWAY AND 24" TRANSMISSION MAIN.

WARD AVE

CLEVELAND AVE

CHASE AVE

HENDERSON AVENUE

WISCONSIN CENTRAL RR

WCR ROW (APPROX.)

SEE SHEET C014
FOR DESCRIPTION OF WATER MAIN WORK

REMOVE AND REPLACE 21 L.F. OF 12" SANITARY SEWER WITH GREEN OR WHITE ASTM D2241 PIPE, SDR 26 AND RUBBER GASKETED JOINTS CONFORMING TO ASTM F477

COORDINATE POLE RELOCATION WITH COMED PRIOR TO CONSTRUCTION.

COORDINATE POLE BRACING WITH COMED (TYP.)

124 L.F. OF 16" DI WATER MAIN

99 L.F. OF 16" RJT DI WATER MAIN,
(1) 16" X 8" TEE (ROLLED DOWN),
(2) 16" 45° VERTICAL BENDS

45 L.F. OF 16" RJT DI WATER MAIN,
(2) 16" 45° BENDS (ROLLED UP/DOWN)

SEE SHEET C015
FOR DESCRIPTION OF WATER MAIN WORK

31 L.F. OF 16" RJT DI WATER MAIN,
(1) 16" 45° BEND, (1) 16" TEE

TOP OF CASING = 542.24
BASE OF RAIL/ROADWAY = 553.20

41 L.F. OF 16" RJT DI WATER MAIN,
(3) 16" 45° BENDS (ROLLED UP/DOWN),
(1) 16" SLEEVE,
(1) 16" NON-PRESSURE CONNECTION

ABANDON EXISTING VALVE VAULT

ABANDON EXISTING 10" WATER MAIN

ABANDON EXISTING VALVE VAULTS

RECEIVING PIT (RECOMMENDED LOCATION)

118 L.F. OF 16" RJT DI WATER MAIN,
35 L.F. OF 30" CASING PIPE (OPEN CUT),
(2) 16" 45° BENDS (ROLLED UP/DOWN),
(1) 16" X 8" CROSS,
(1) 16" VALVE IN 5' VAULT

NOTE:
CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF 24" TRANSMISSION MAIN PRIOR TO STARTING CONSTRUCTION IN AREA. MUST PROTECT DURING CONSTRUCTION AT ALL TIMES.

SEE SHEET C014
FOR DESCRIPTION OF WATER MAIN WORK

106 L.F. OF 16" RJT DI WATER MAIN IN 36" BORED CASING
STA. 9+99 TO STA. 11+04

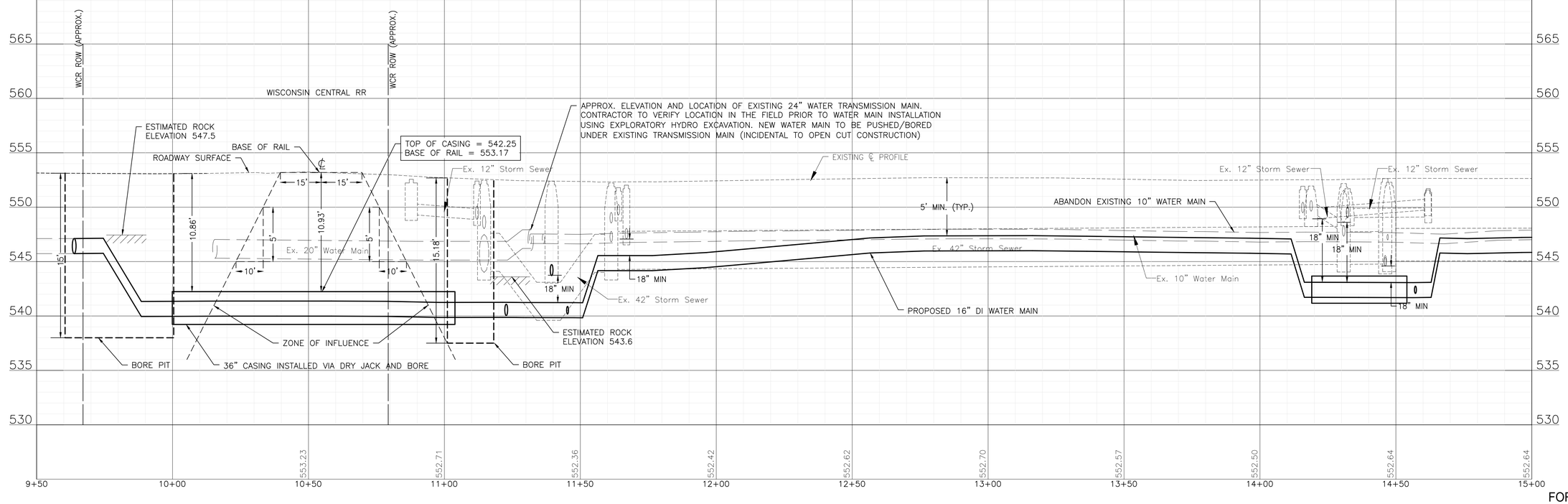
BORING PIT (RECOMMENDED LOCATION)

NOTE:
CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS DURING CONSTRUCTION.

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

NOTE:
STORM SEWER PIPE ON THIS 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. 15+00 SEE SHEET C002



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN consulting engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325
		REVISED –	
		REVISED –	
		REVISED –	

HENDERSON AVENUE STA. 9+50 TO STA. 15+00 PLAN AND PROFILE

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

PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS		34	C001
CHECKED – PMK			
DATE – 01/31/2025			

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 10+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

NOTE:
WATER SERVICES: (1) WATER SERVICE CONNECTION IS ANTICIPATED ON THIS SHEET. 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.

SEE SHEET C016
FOR DESCRIPTION OF WATER MAIN WORK

REMOVE AND REPLACE 19 L.F. OF 12" SANITARY SEWER WITH GREEN OR WHITE ASTM D2241 PIPE, SDR 26 AND RUBBER GASKETED JOINTS CONFORMING TO ASTM F477

COORDINATE POLE RELOCATION WITH COMED PRIOR TO CONSTRUCTION.

COORDINATE POLE BRACING WITH COMED (TYP.)

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

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

ABANDON EXISTING 10" WATER MAIN

ABANDON EXISTING VALVE VAULT

106 L.F. OF 16" RJT DI WATER MAIN,
(2) 16" 45° BENDS (ROLLED UP/DOWN),
(1) 16" X 8" CROSS,
(1) 16" VALVE IN 5' VAULT

58 L.F. OF 16" DI WATER MAIN

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

WATER SERVICE LINE (TYP.)

ABANDON EXISTING VALVE VAULT

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

SEE SHEET C016
FOR DESCRIPTION OF WATER MAIN WORK

42 L.F. OF 16" DI WATER MAIN

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

MEEKER AVE

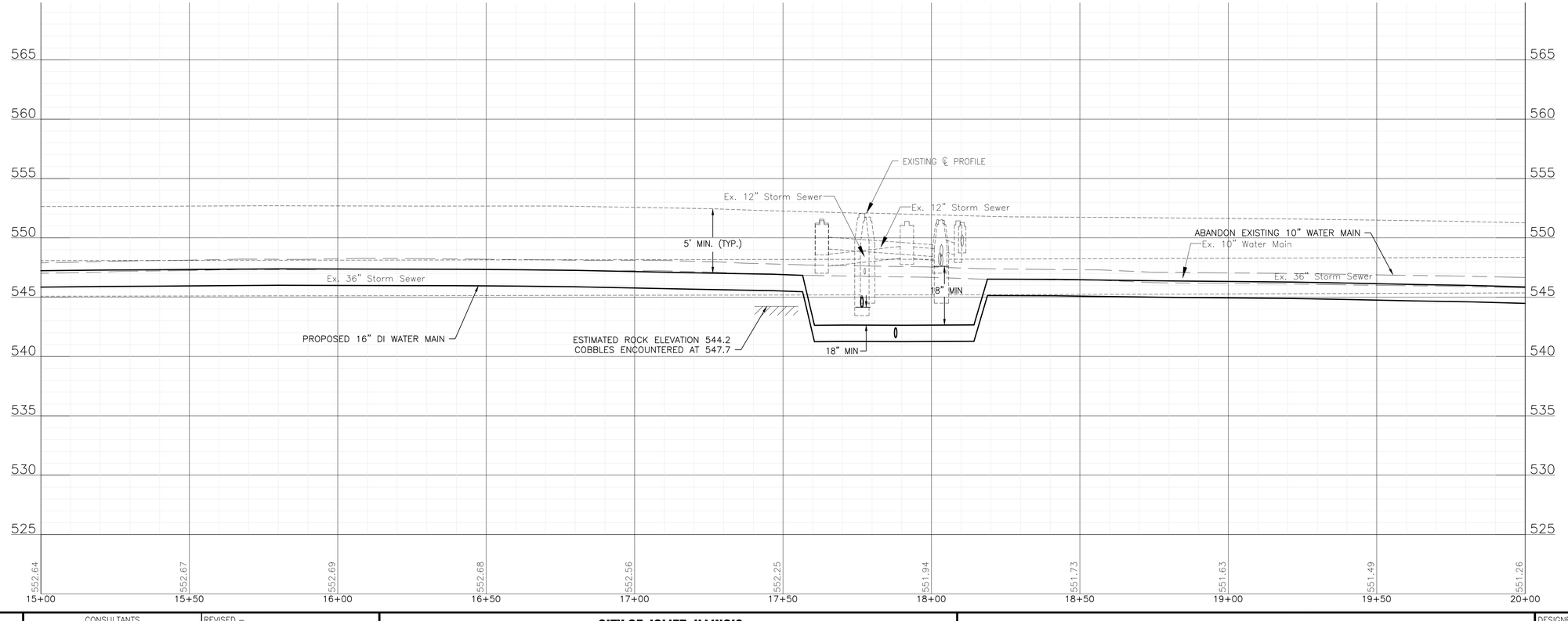
SEE SHEET C001

MATCH LINE STA. 15+00

SEE SHEET C003

MATCH LINE STA. 20+00

HENDERSON AVENUE



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

HENDERSON AVENUE STA. 15+00 TO STA. 20+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 2325880.00

DESIGNED – RMM	TOTAL SHEETS: 34
DRAWN – JJS	SHEET NO.: C002
CHECKED – PMK	
DATE – 01/31/2025	

P:\JOLIET\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 15+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

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

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

COORDINATE POLE RELOCATION WITH COMED PRIOR TO CONSTRUCTION.

COORDINATE POLE BRACING WITH COMED (TYP.)

SEE SHEET C017
FOR DESCRIPTION OF WATER MAIN WORK

SEE SHEET C004
FOR DESCRIPTION OF WATER MAIN WORK

SANITARY SEWER TO BE LINED BY OTHERS WITH A STRUCTURAL LINER MEETING ASTM F1216 AND DESIGNED FOR A FULLY DETERIORATED PIPE.

105 L.F. OF 16" RJT DI WATER MAIN,
(3) 16" 45° VERTICAL BENDS,
(1) 16" VALVE IN 5' VAULT

132 L.F. OF 16" DI WATER MAIN

106 L.F. OF 16" RJT DI WATER MAIN,
(2) 16" 45° BENDS (ROLLED UP/DOWN),
(1) 16" X 8" CROSS

121 L.F. OF 16" RJT DI WATER MAIN,
26 L.F. OF 30" CASING PIPE (OPEN CUT),
(2) 16" 45° BENDS (ROLLED UP/DOWN),
(1) 16" VALVE IN 5' VAULT

ABANDON EXISTING 10" WATER MAIN

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

ABANDON EXISTING VALVE BOX

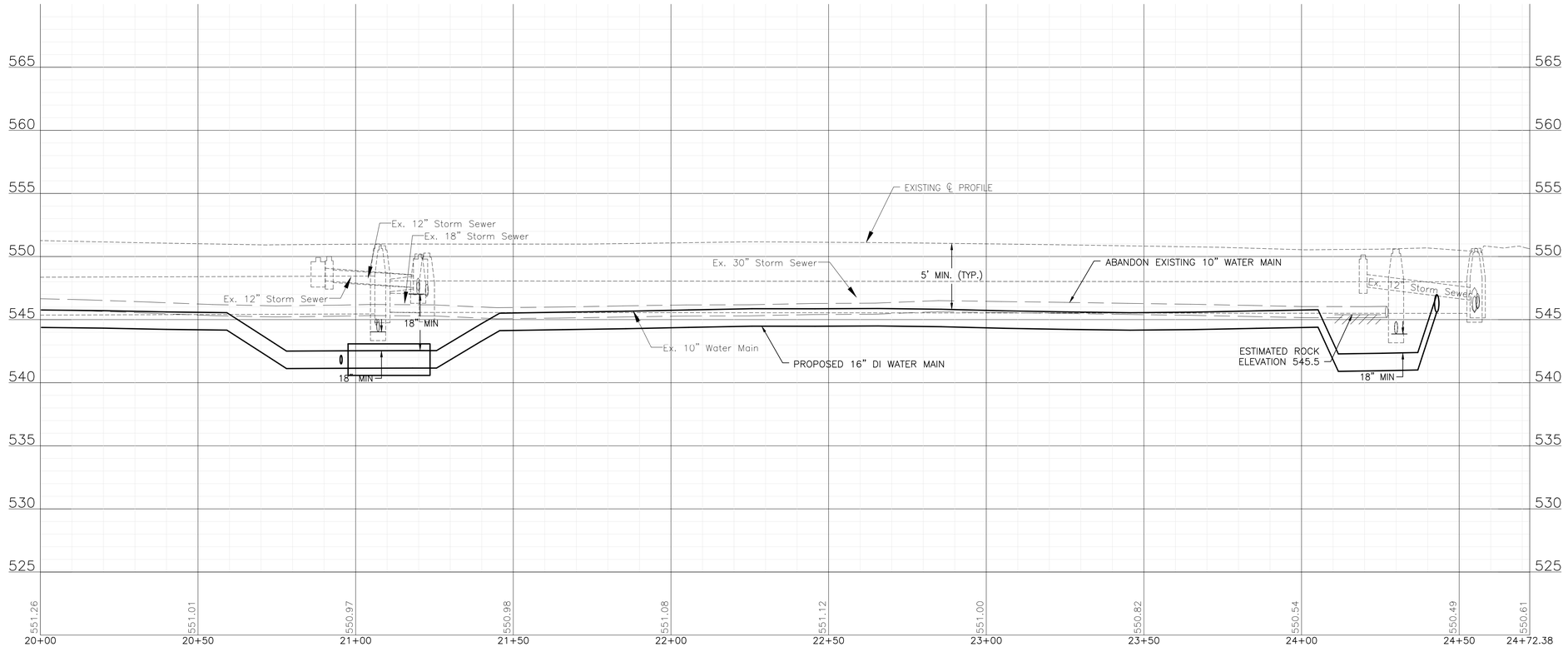
SEE SHEET C002
MATCH LINE STA. 20+00

FRANCIS ST

WILLIAMSON AVE

HENDERSON AVENUE

FOR CONTINUATION SEE SHEET C004



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

HENDERSON AVENUE STA. 20+00 TO STA. 24+72 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 2325880.00

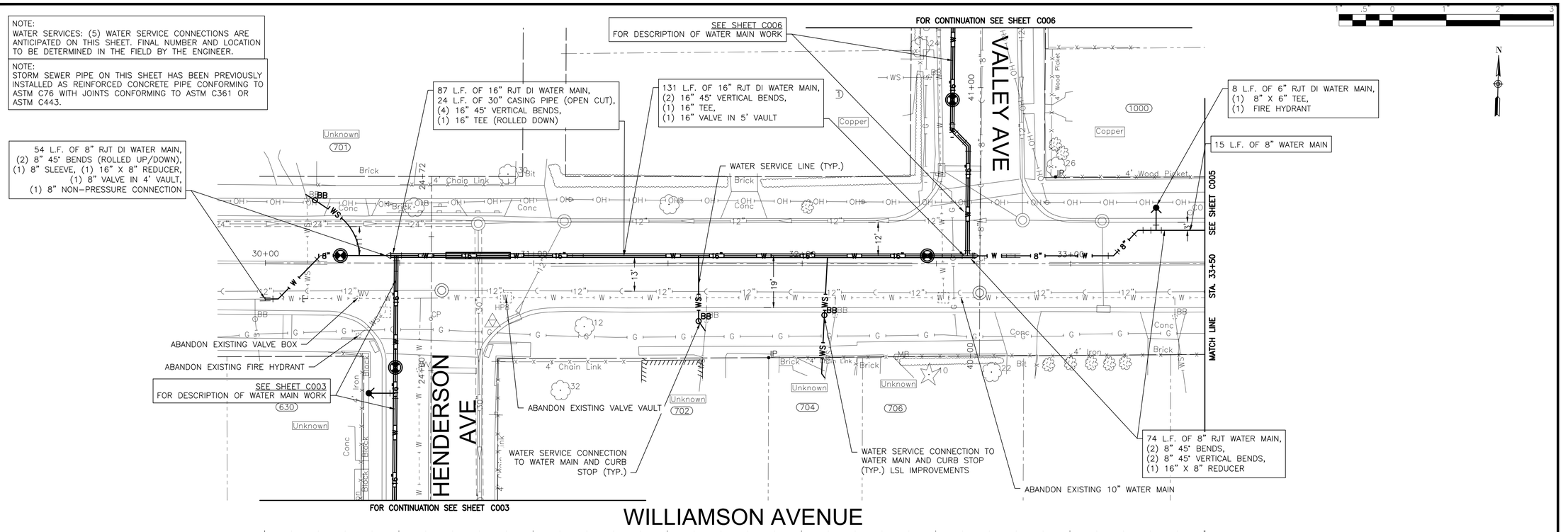
DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

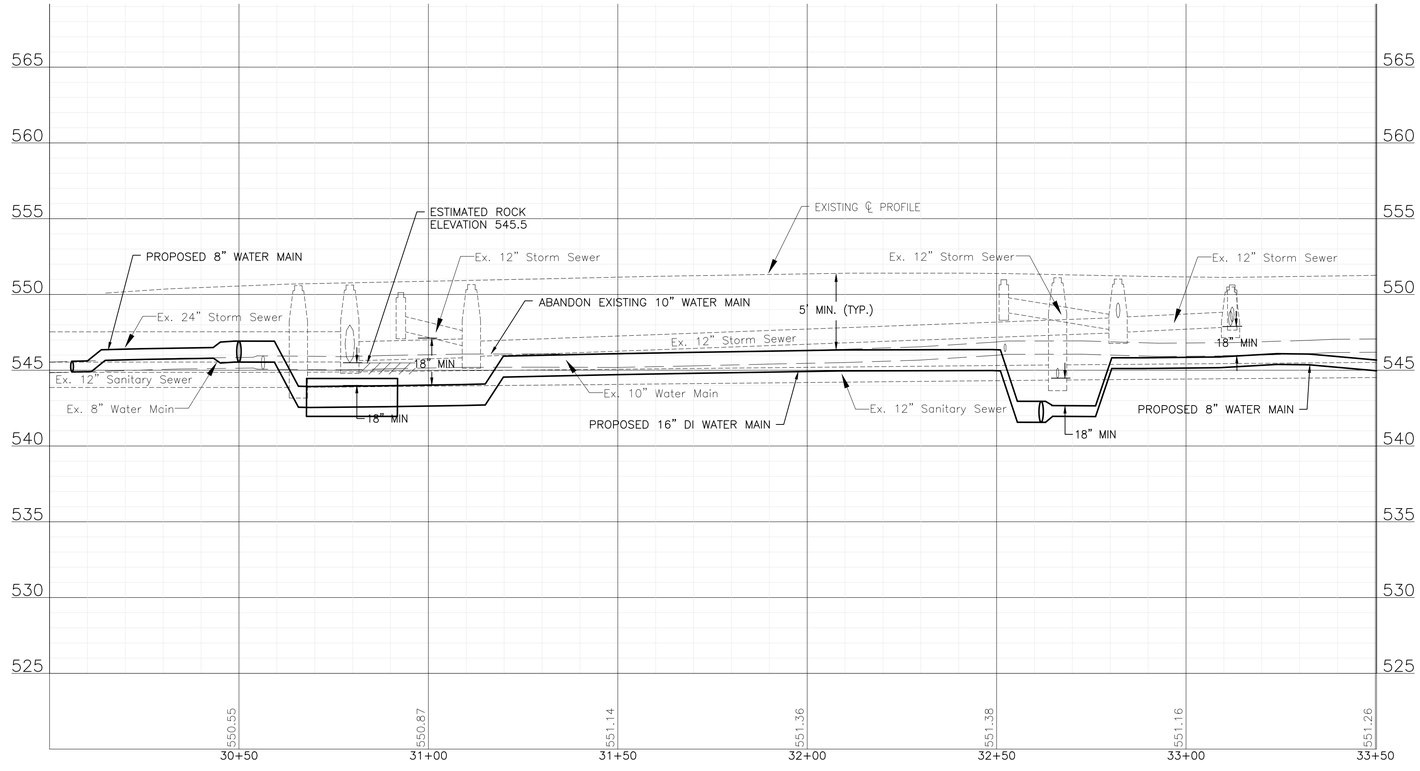
TOTAL SHEETS	SHEET NO.
34	C003

P:\JOLITC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 20+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

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

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





FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 30+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

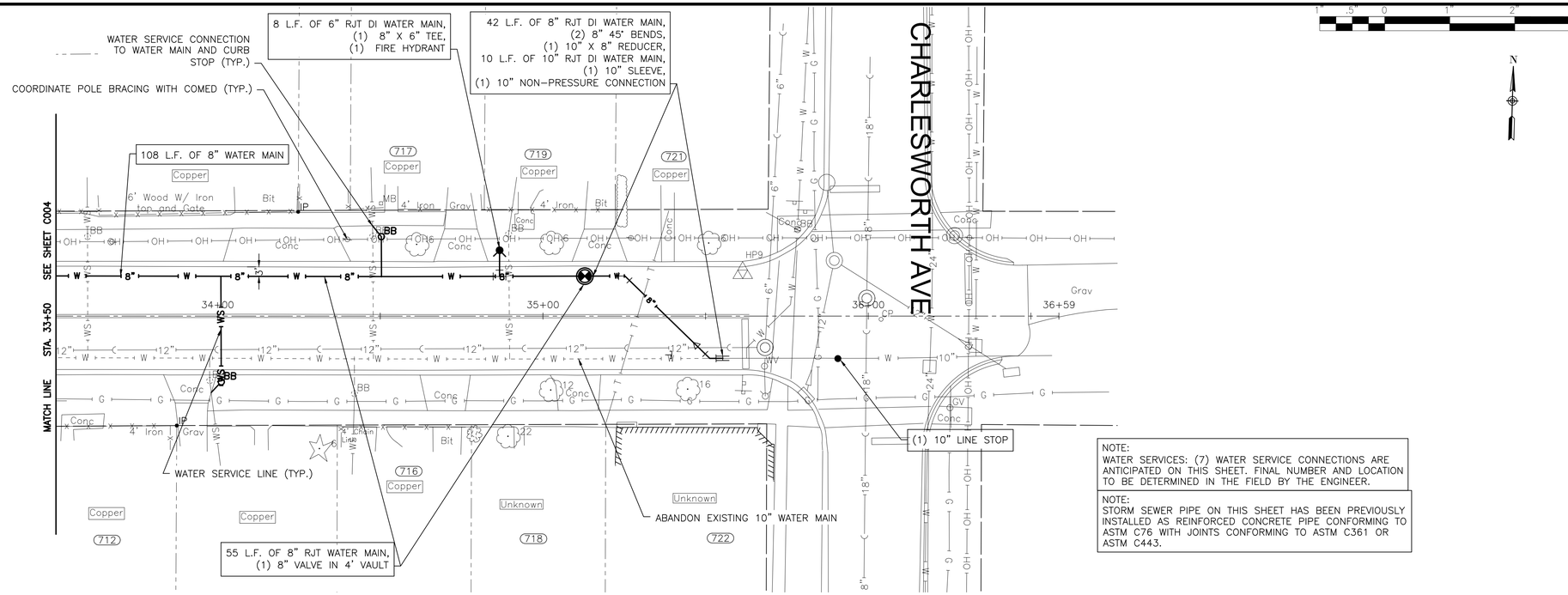
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

WILLIAMSON AVENUE STA. 30+00 TO STA 33+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 2325880.00

DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

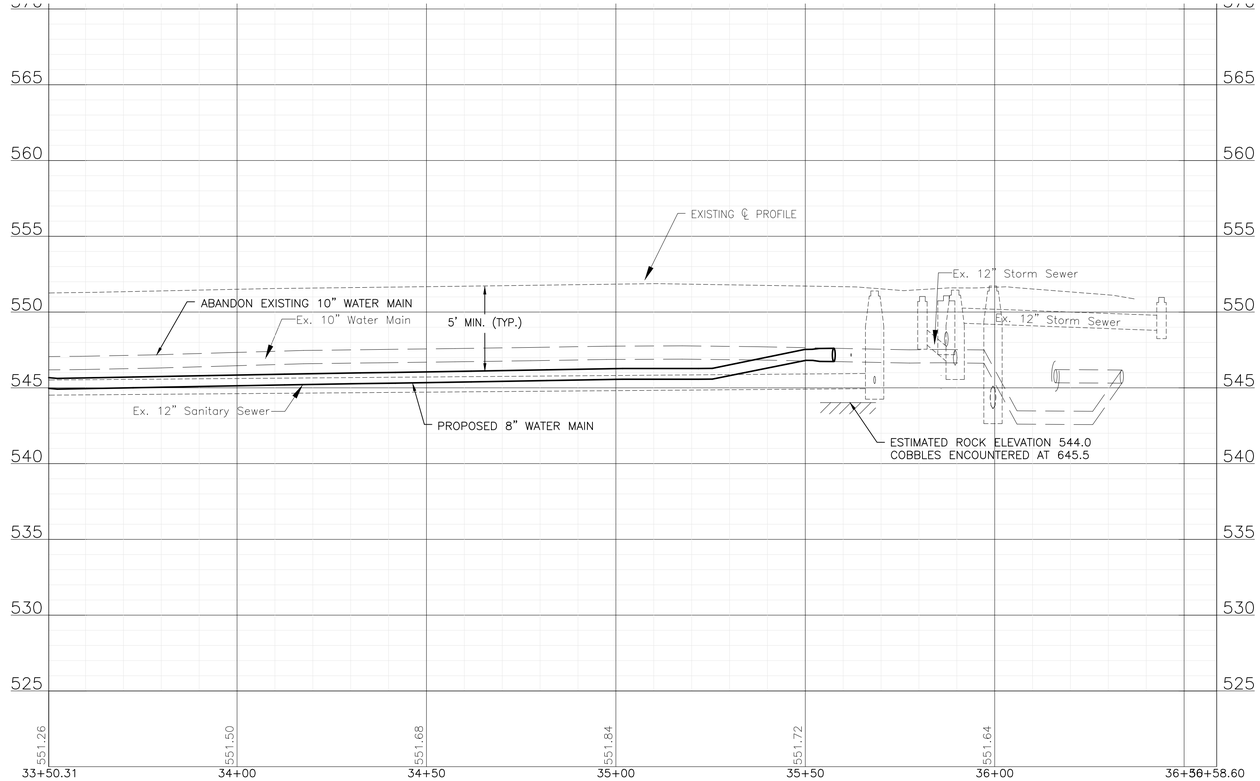
TOTAL SHEETS	SHEET NO.
34	C004



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

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

WILLIAMSON AVENUE



FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 33+50.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

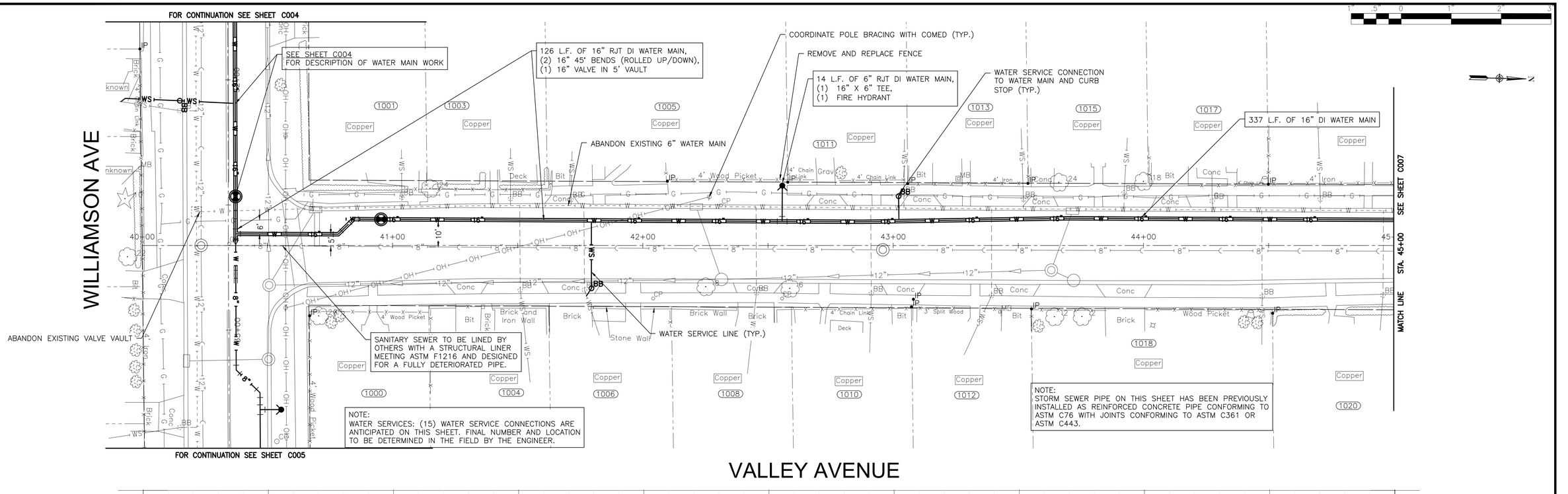
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

WILLIAMSON AVENUE STA. 33+50 TO STA. 36+50 PLAN AND PROFILE

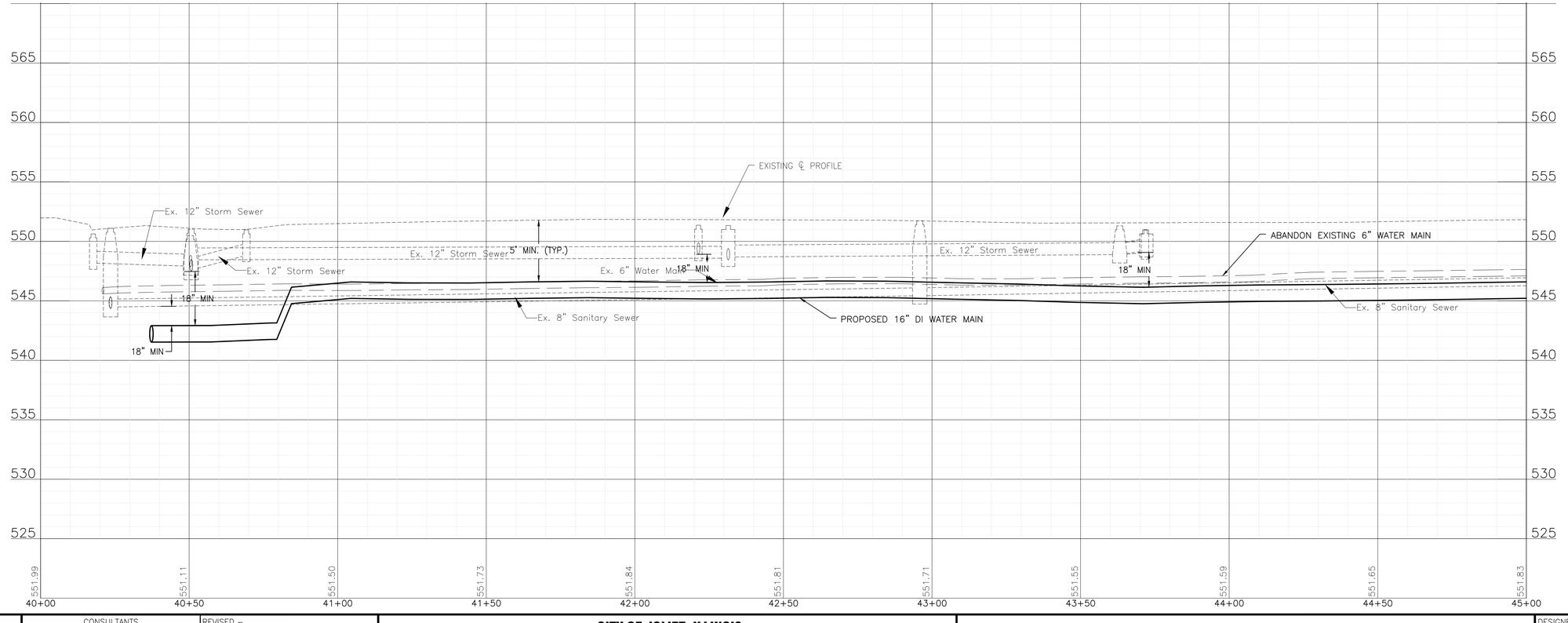
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 2325880.00

DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

TOTAL SHEETS	SHEET NO.
34	C005



VALLEY AVENUE



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

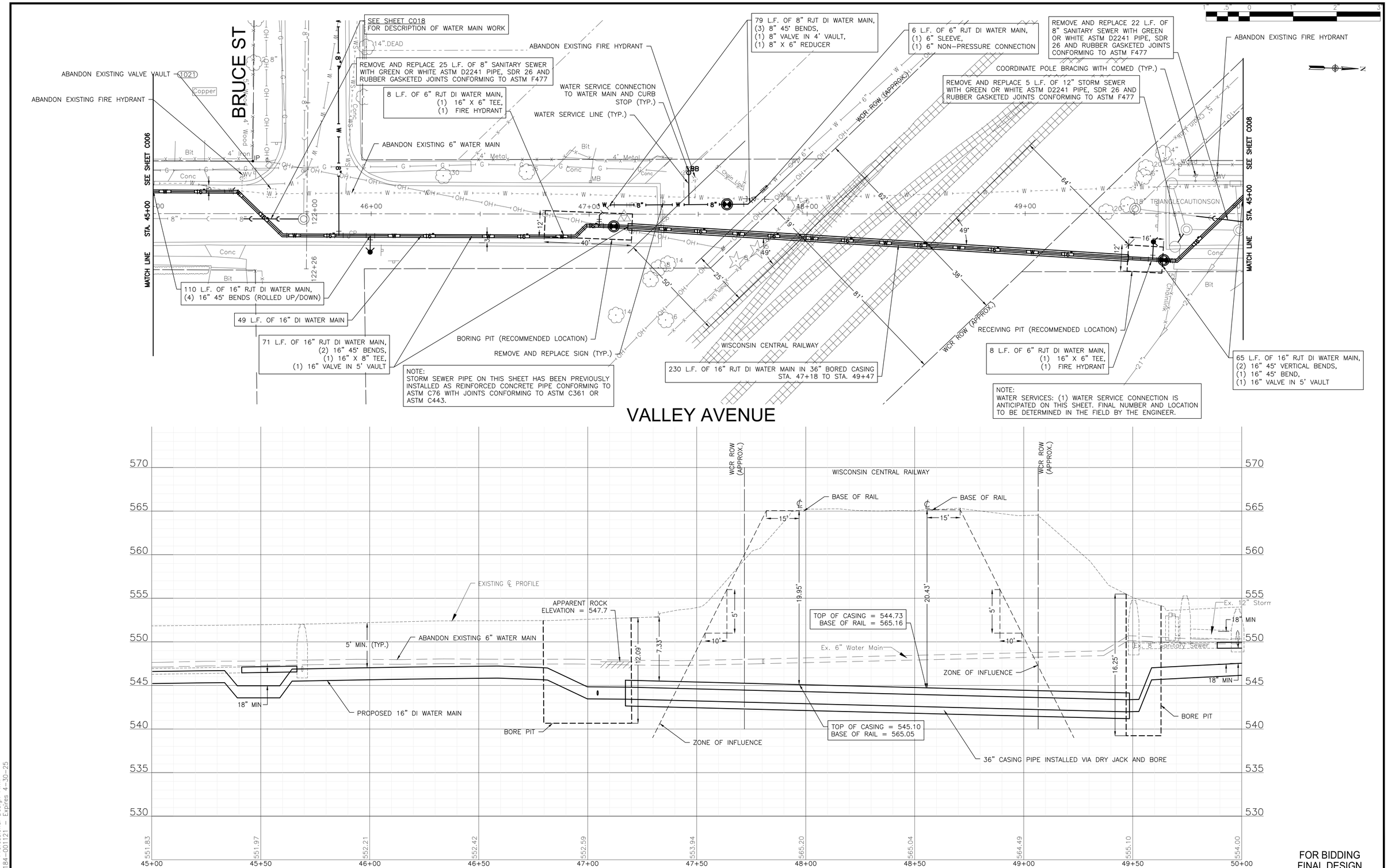
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

VALLEY AVENUE STA. 40+00 TO STA. 45+00

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS		34	C006
CHECKED – PMK			
DATE – 01/31/2025			

P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 40+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 45+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

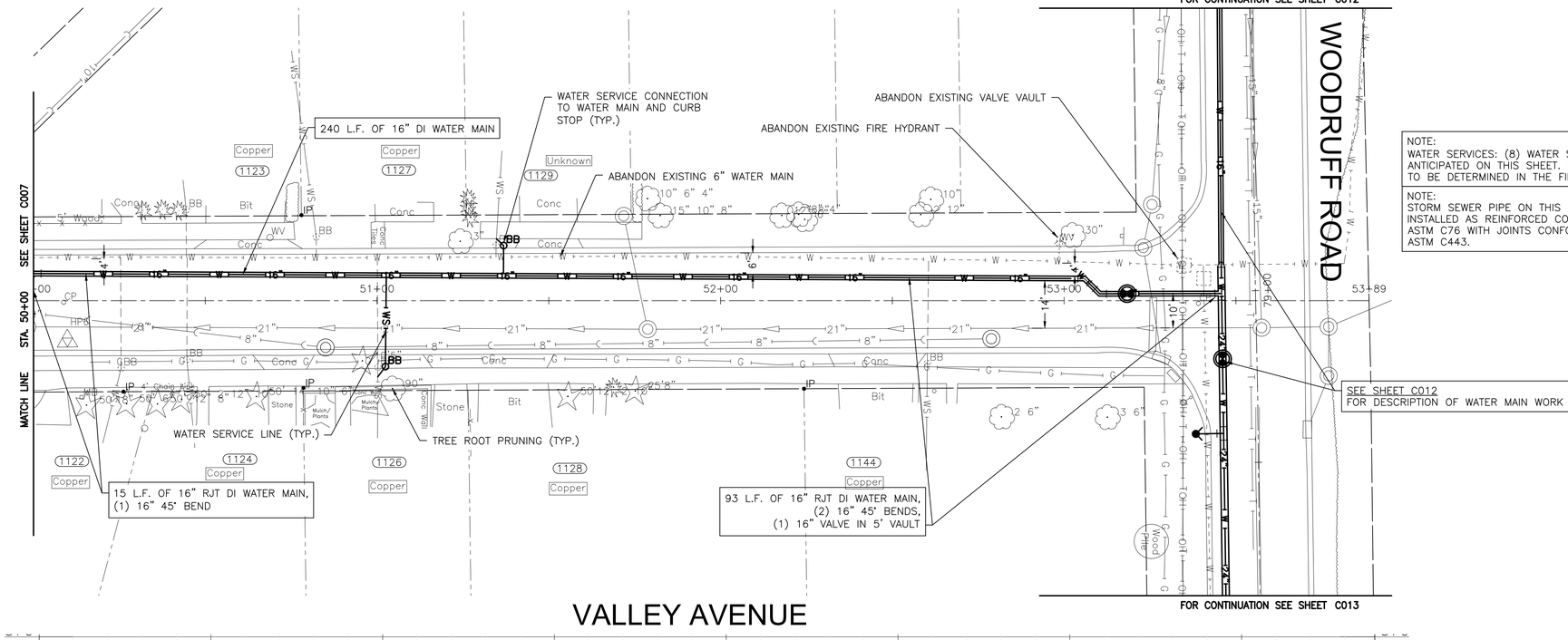
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

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

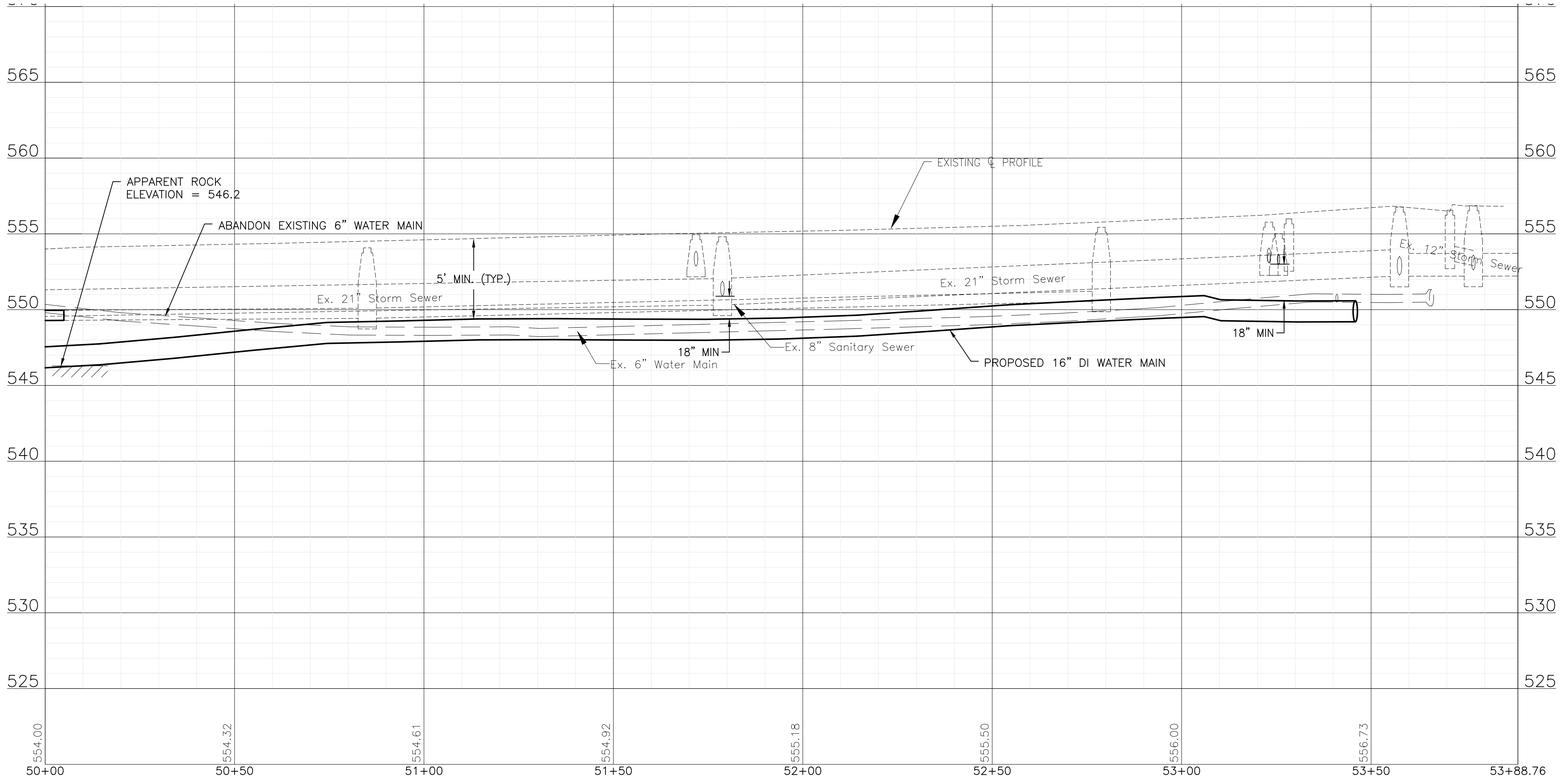
SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00

DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

TOTAL SHEETS	SHEET NO.
34	C007



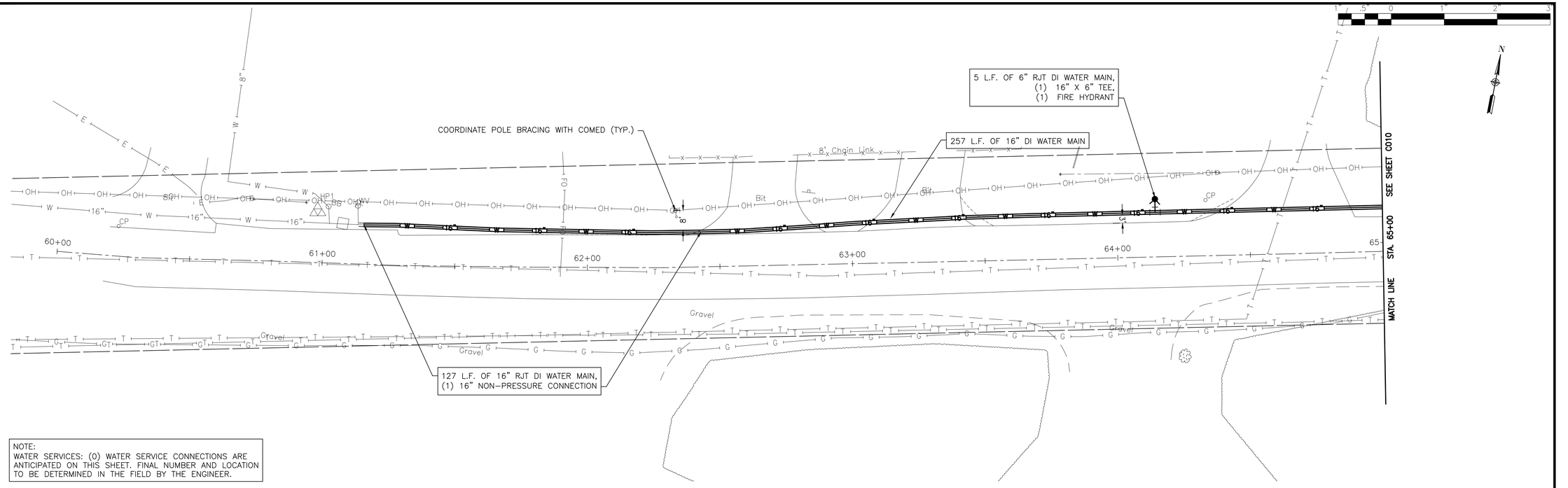
VALLEY AVENUE



FOR BIDDING
FINAL DESIGN

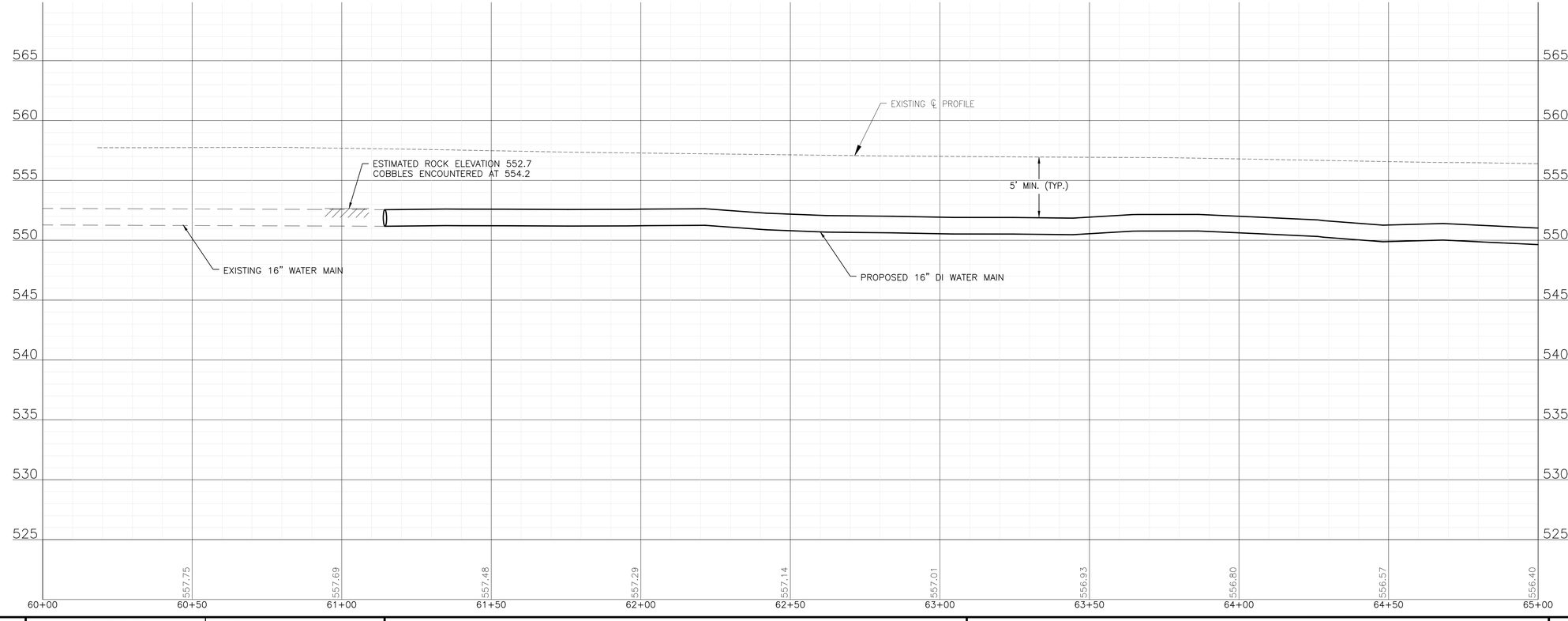
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325	VALLEY AVENUE STA. 50+00 TO STA. 54+00 PLAN AND PROFILE	DESIGNED – RMM DRAWN – JJS CHECKED – PMK DATE – 01/31/2025
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00	TOTAL SHEETS: 34
		REVISED –			SHEET NO.: C008

P:_VOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 50+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By: Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



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

WOODRUFF ROAD



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

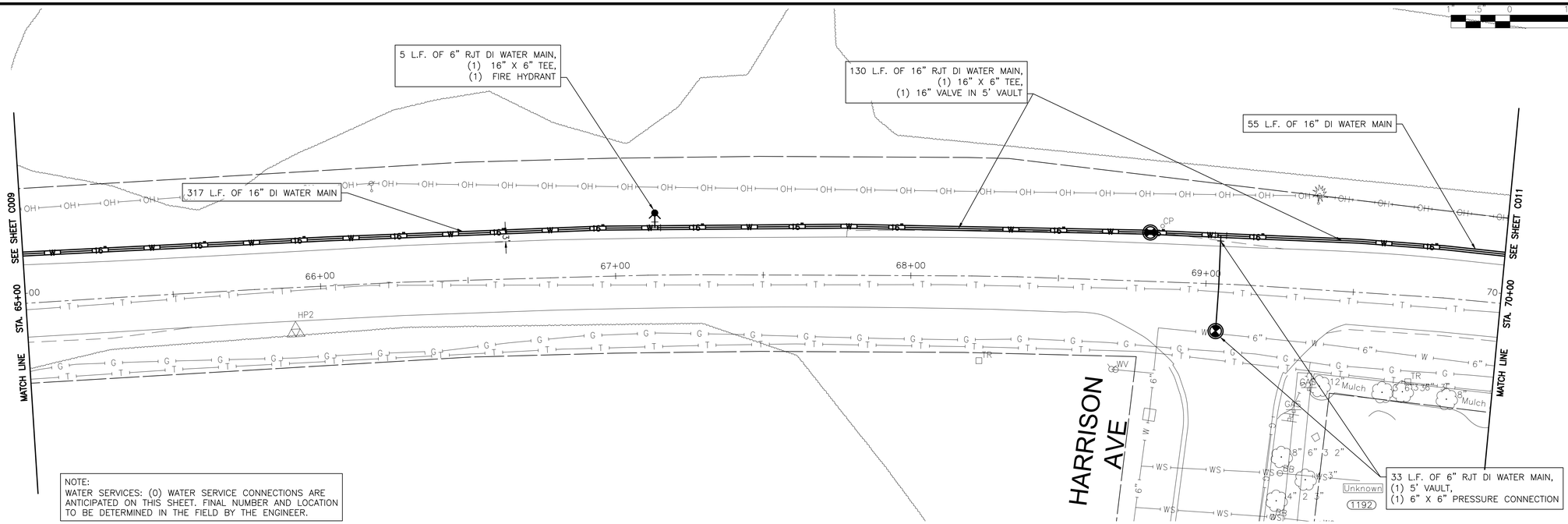
WOODRUFF ROAD STA. 60+00 TO STA. 65+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 2325880.00

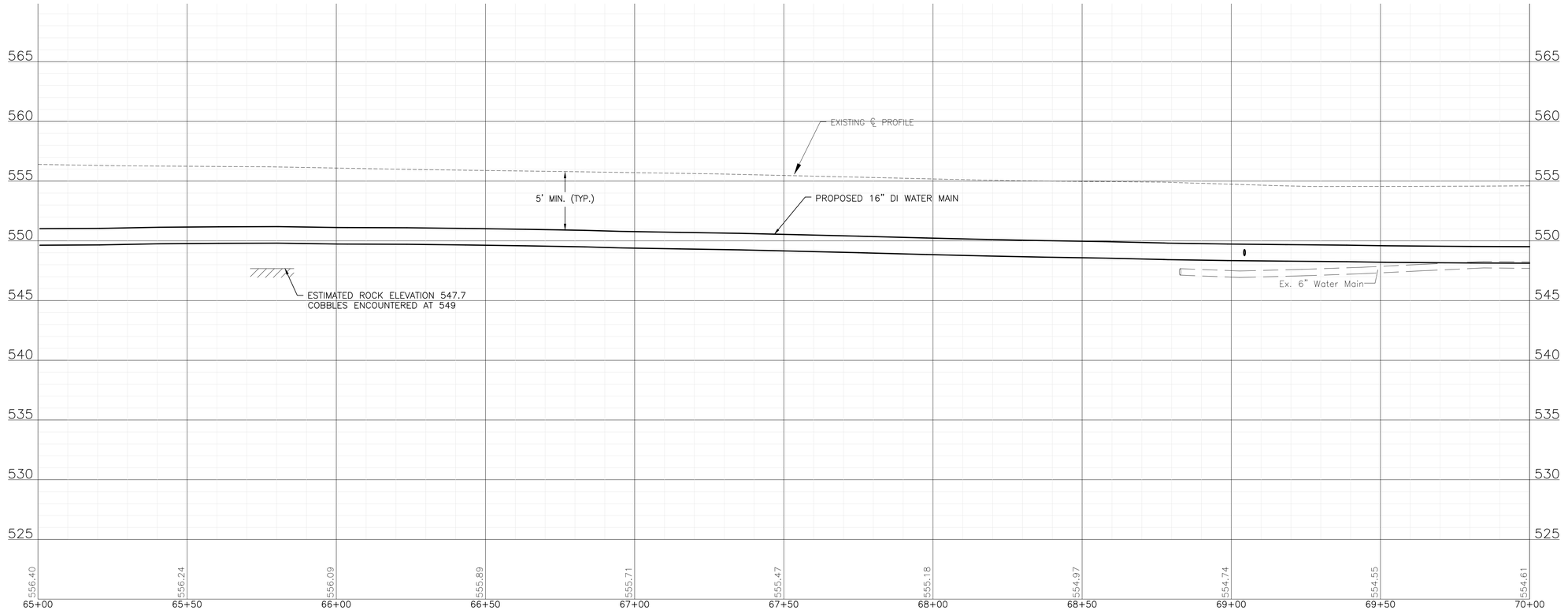
DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

TOTAL SHEETS	SHEET NO.
34	C009

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 60+00.00
Plotted: 1/27/2025 4:59 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



WOODRUFF ROAD

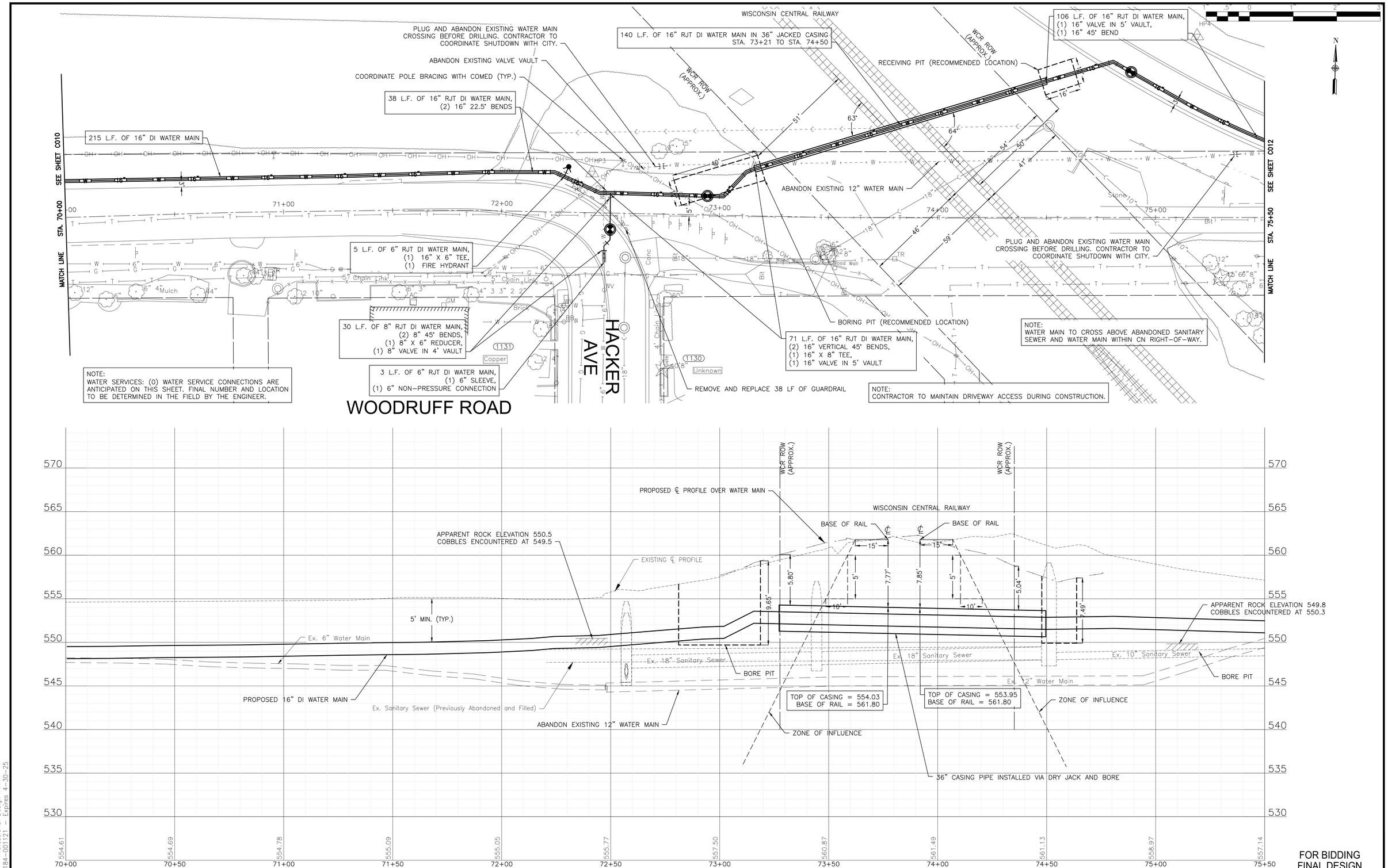


FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED – / REVISED – / REVISED – / REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325	WOODRUFF ROAD STA. 65+00 TO STA. 70+00 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00

DESIGNED – RMM	TOTAL SHEETS: 34
DRAWN – JJS	SHEET NO.: C010
CHECKED – PMK	
DATE – 01/31/2025	

P:\JOLIET\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 65+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



FOR BIDDING FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 70+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

WOODRUFF ROAD STA. 70+00 TO STA. 75+00 PLAN AND PROFILE

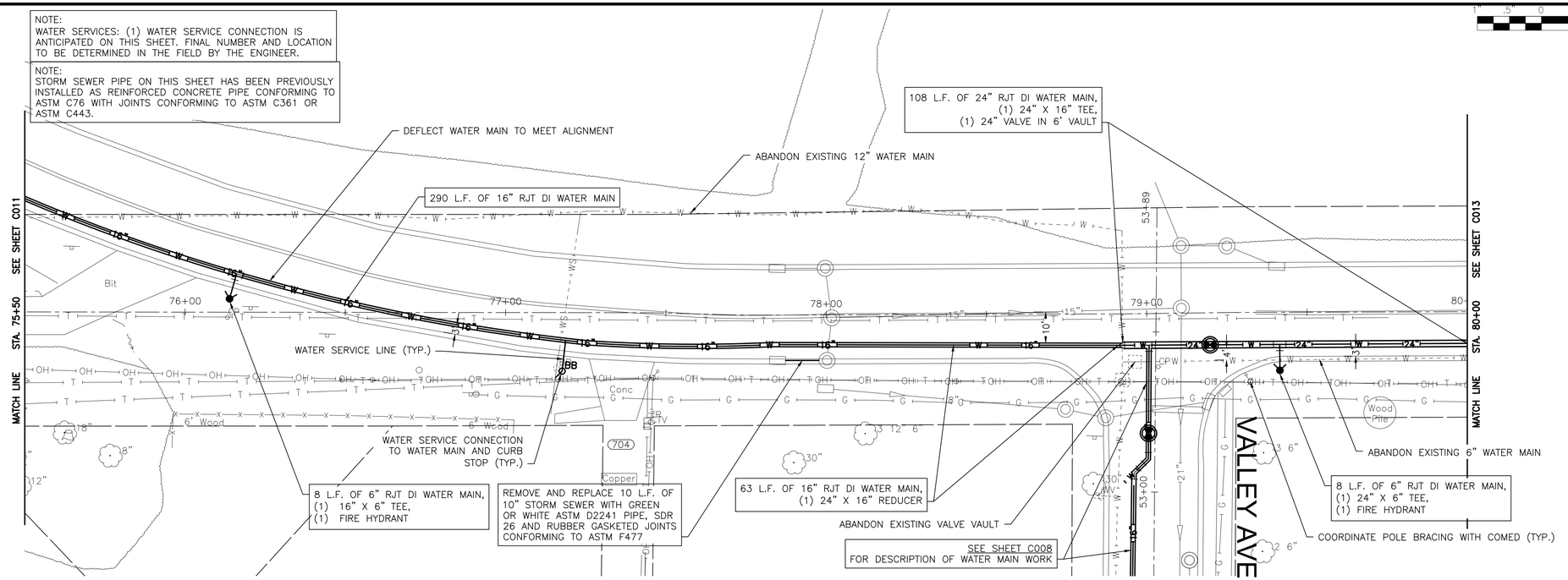
SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00

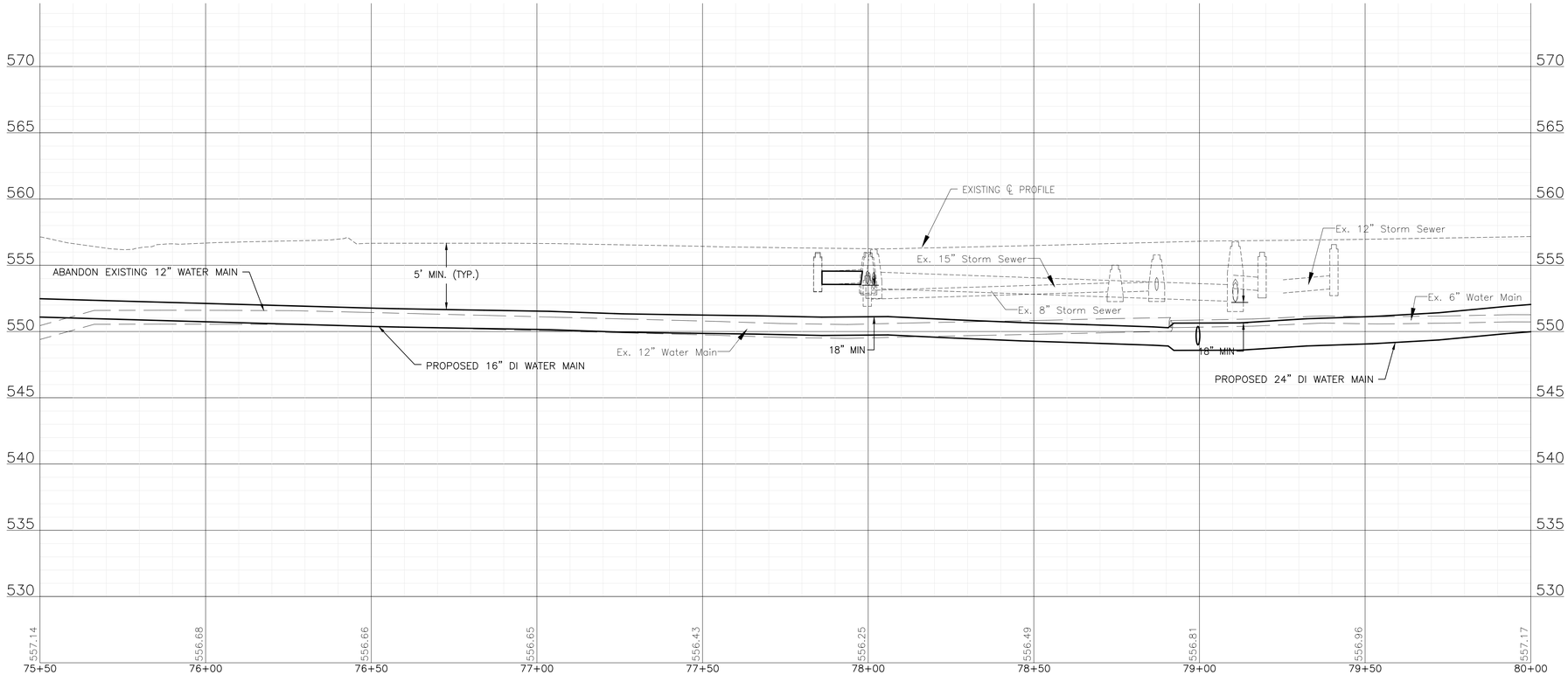
DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

TOTAL SHEETS	SHEET NO.
34	C011

NOTE:
WATER SERVICES: (1) WATER SERVICE CONNECTION IS ANTICIPATED ON THIS SHEET. 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.





FOR BIDDING
FINAL DESIGN

P:\JOLIET\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 75+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By: Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

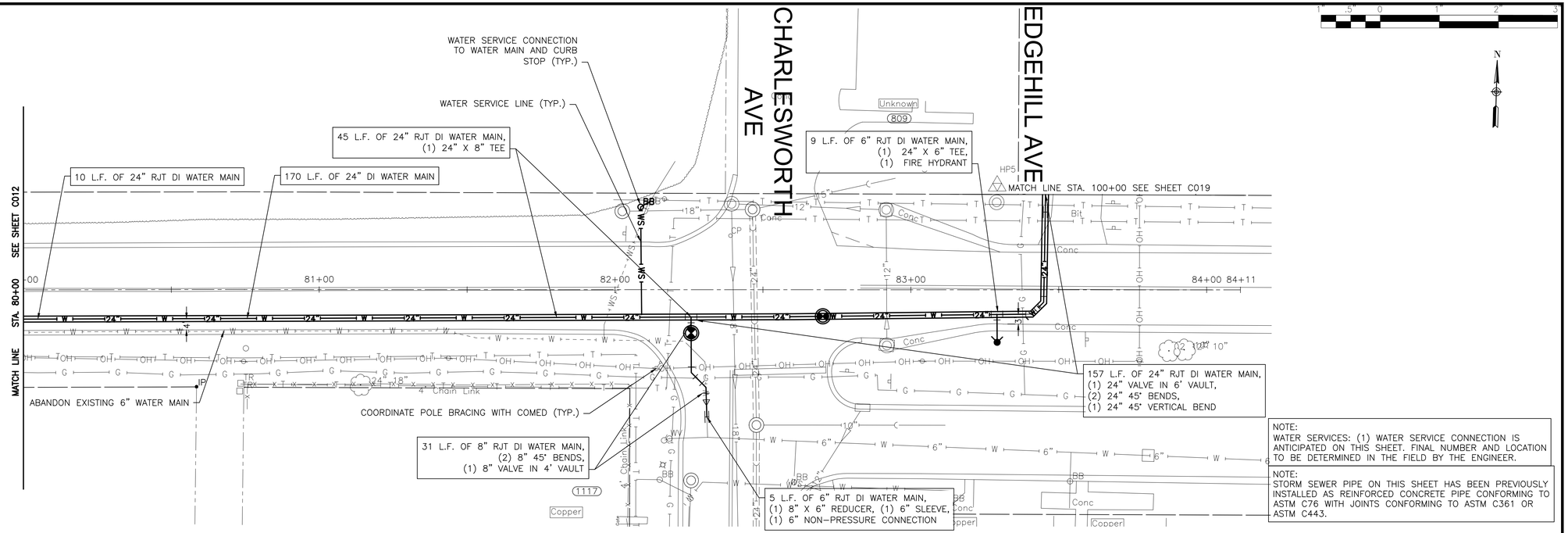
CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

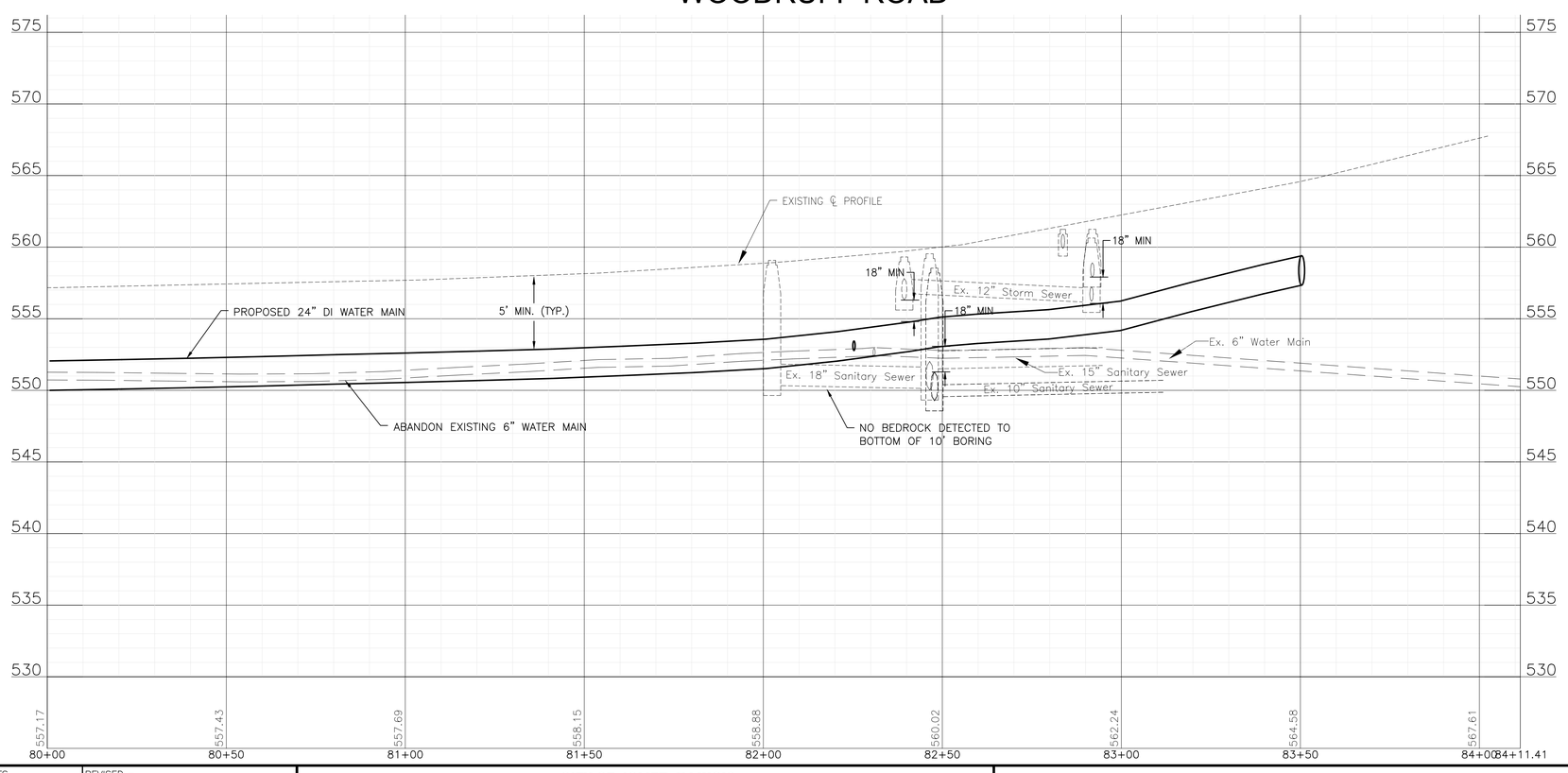
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

WOODRUFF ROAD STA. 75+00 TO STA. 80+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 2325880.00

DESIGNED – RMM	TOTAL SHEETS: 34
DRAWN – JJS	SHEET NO.: C012
CHECKED – PMK	
DATE – 01/31/2025	





FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 80+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

WOODRUFF ROAD STA. 80+00 TO STA. 84+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 2325880.00

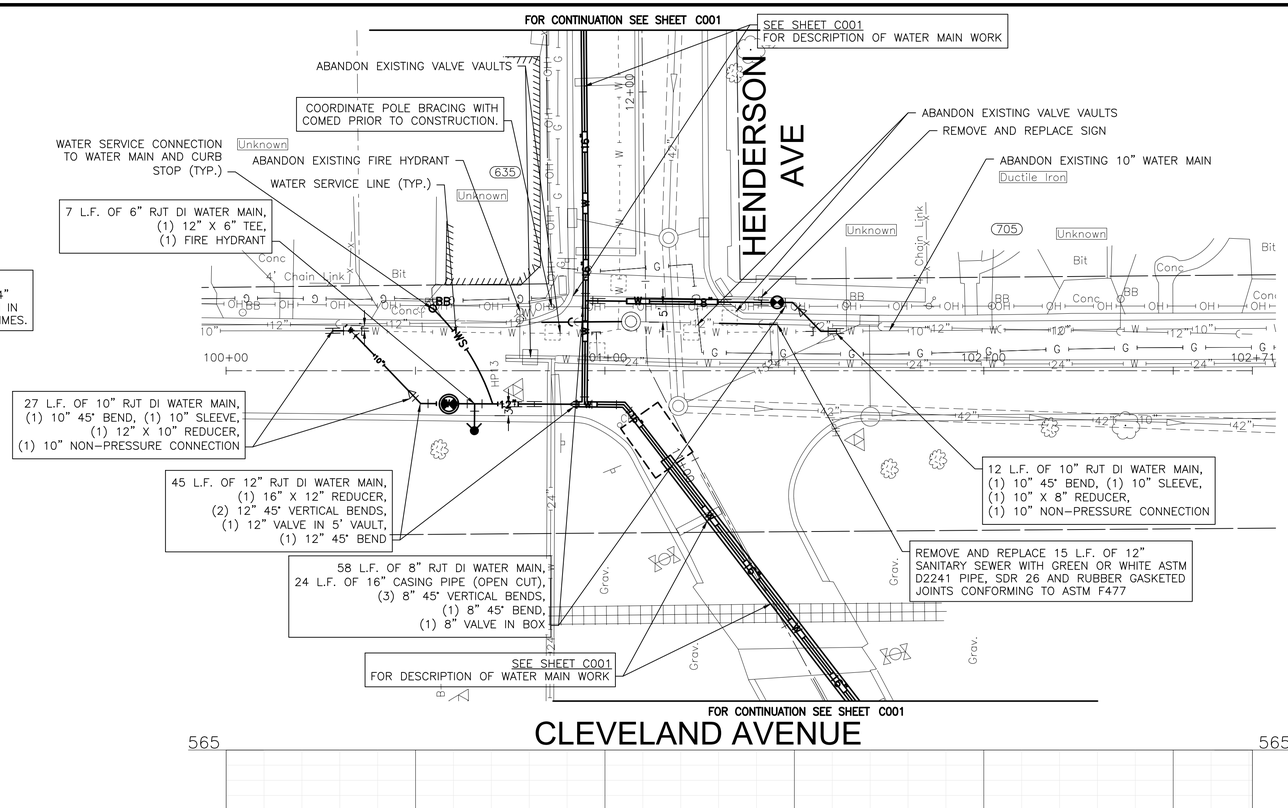
DESIGNED	– RMM
DRAWN	– JJS
CHECKED	– PMK
DATE	– 01/31/2025

TOTAL SHEETS	SHEET NO.
34	C013

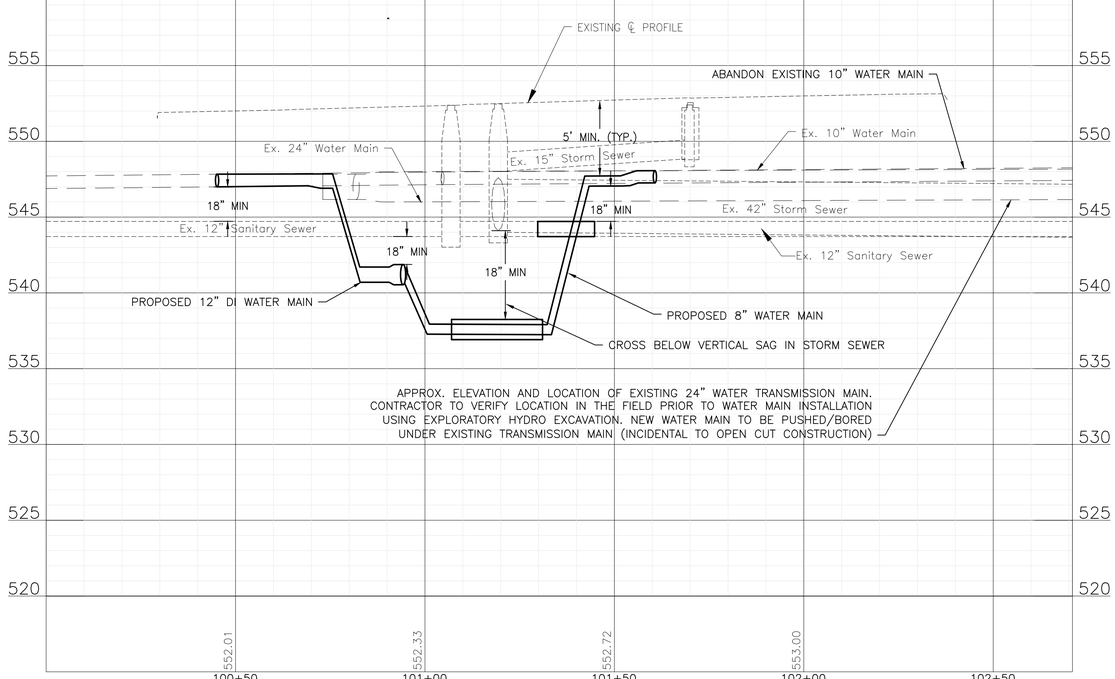
NOTE:
WATER SERVICES: (1) WATER SERVICE CONNECTION IS ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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.

NOTE:
CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF 24" TRANSMISSION MAIN PRIOR TO STARTING CONSTRUCTION IN AREA. MUST PROTECT DURING CONSTRUCTION AT ALL TIMES.



CLEVELAND AVENUE



FOR BIDDING
FINAL DESIGN

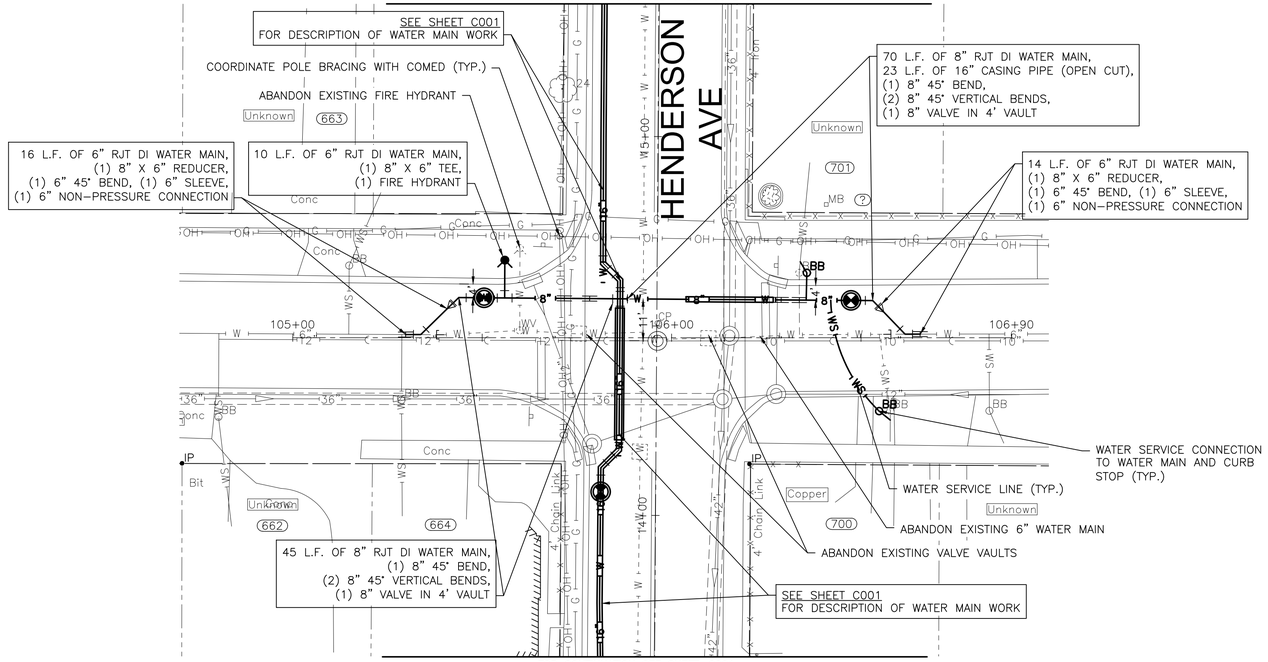
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325
		REVISED –	
		REVISED –	
		REVISED –	

CLEVELAND AVENUE STA. 100+00 TO STA. 102+70 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 2325880.00

DESIGNED – RMM	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	34	C014
CHECKED – PMK		
DATE – 01/31/2025		

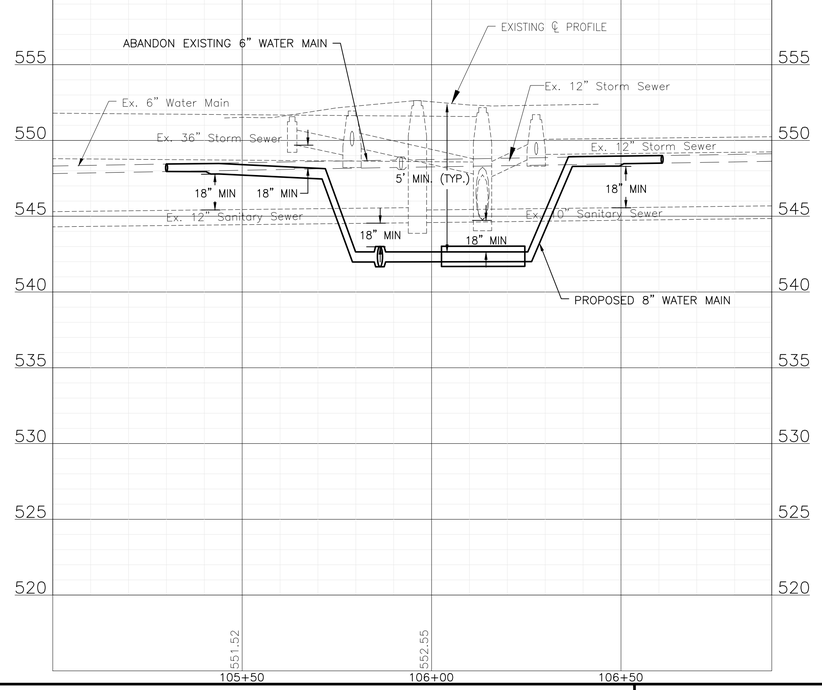
P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 100+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25



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

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

CHASE AVENUE



FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325
		REVISED –	
		REVISED –	
		REVISED –	

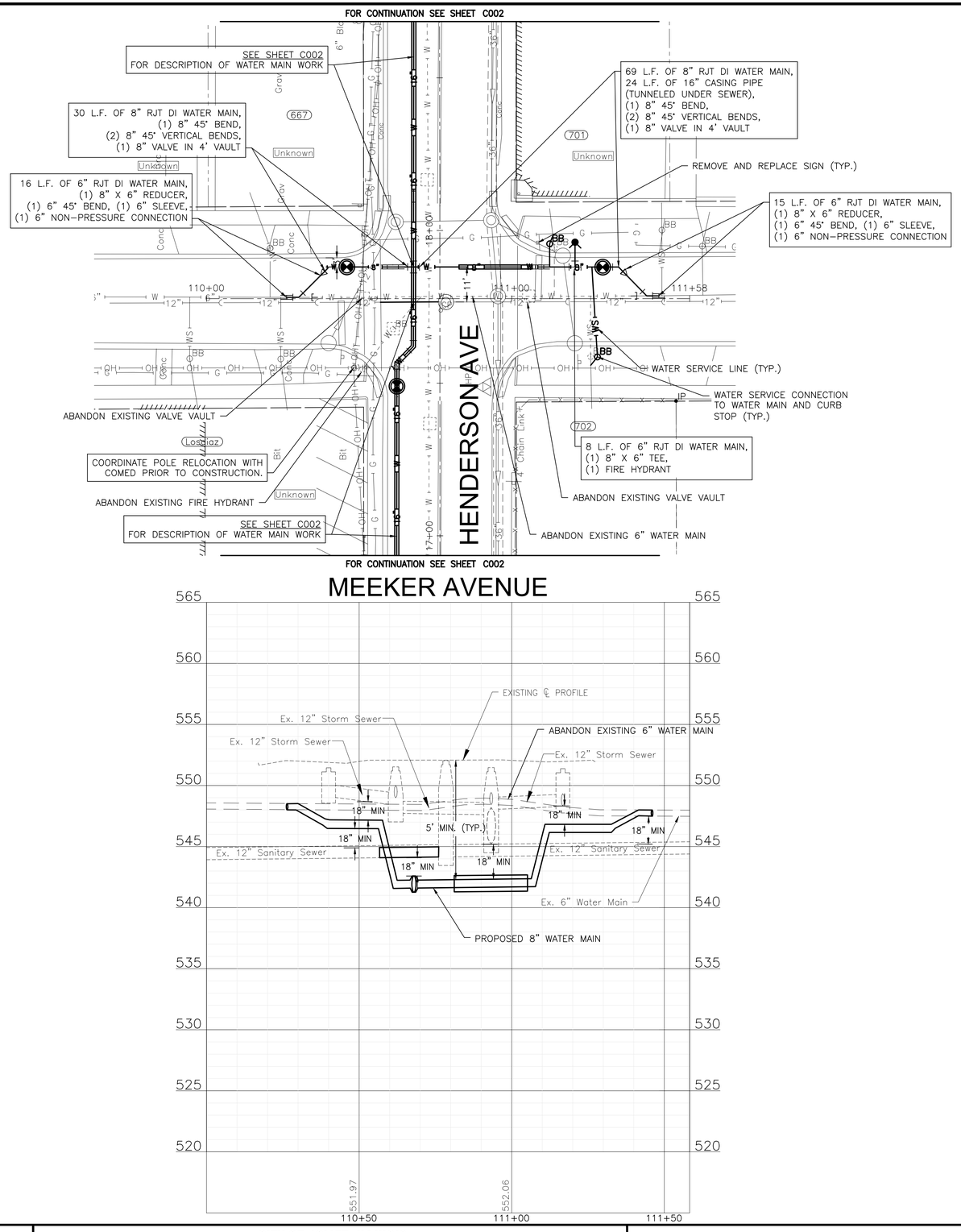
CHASE AVENUE STA. 105+00 TO STA. 106+90 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 2325880.00

DESIGNED – RMM
DRAWN – JJS
CHECKED – PMK
DATE – 01/31/2025

TOTAL SHEETS: 34
SHEET NO.: C015

P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 105+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25



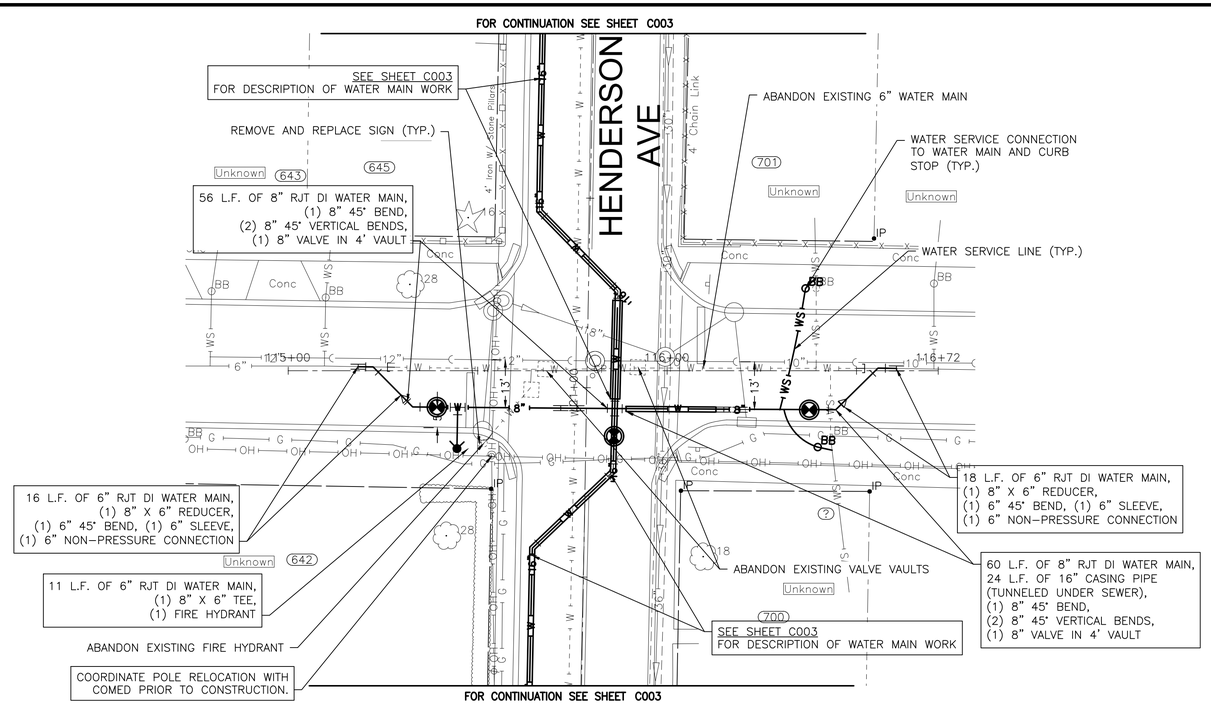
NOTE:
WATER SERVICES: (2) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

FOR BIDDING
FINAL DESIGN

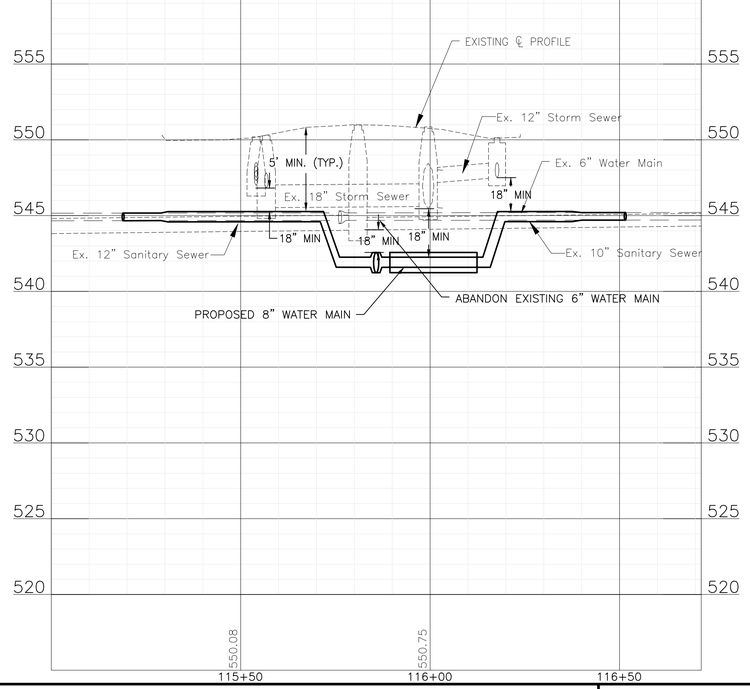
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325	MEEKER AVENUE STA. 110+00 TO STA. 111+60 PLAN AND PROFILE	DESIGNED – RMM DRAWN – JJS CHECKED – PMK DATE – 01/31/2025
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00	TOTAL SHEETS: 34
		REVISED –			SHEET NO.: C016

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 110+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



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

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



FOR BIDDING
FINAL DESIGN

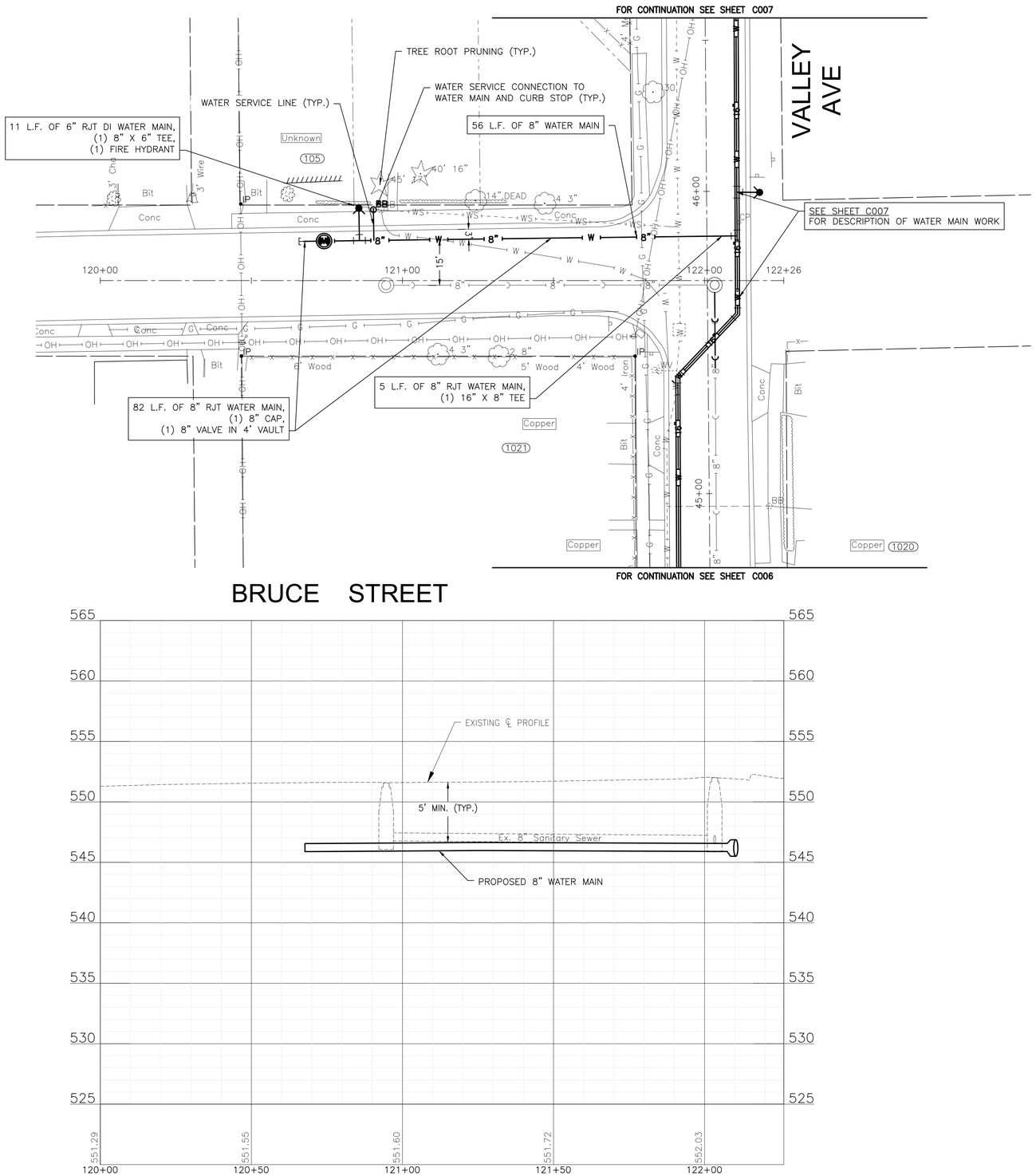
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325	FRANCIS STREET STA. 115+00 TO STA. 116+70 PLAN AND PROFILE	DESIGNED – RMM DRAWN – JJS CHECKED – PMK DATE – 01/31/2025
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00	TOTAL SHEETS: 34
		REVISED –			SHEET NO.: C017

P:\JOLIT\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 115+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

NOTE:
WATER MAIN TO BE EXTENDED WEST TO WABASH AS PART OF HEGGIE PARK PHASE 3 WATER MAIN IMPROVEMENTS (2027)

NOTE:
WATER SERVICES: (1) WATER SERVICE CONNECTION IS ANTICIPATED ON THIS SHEET. 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.

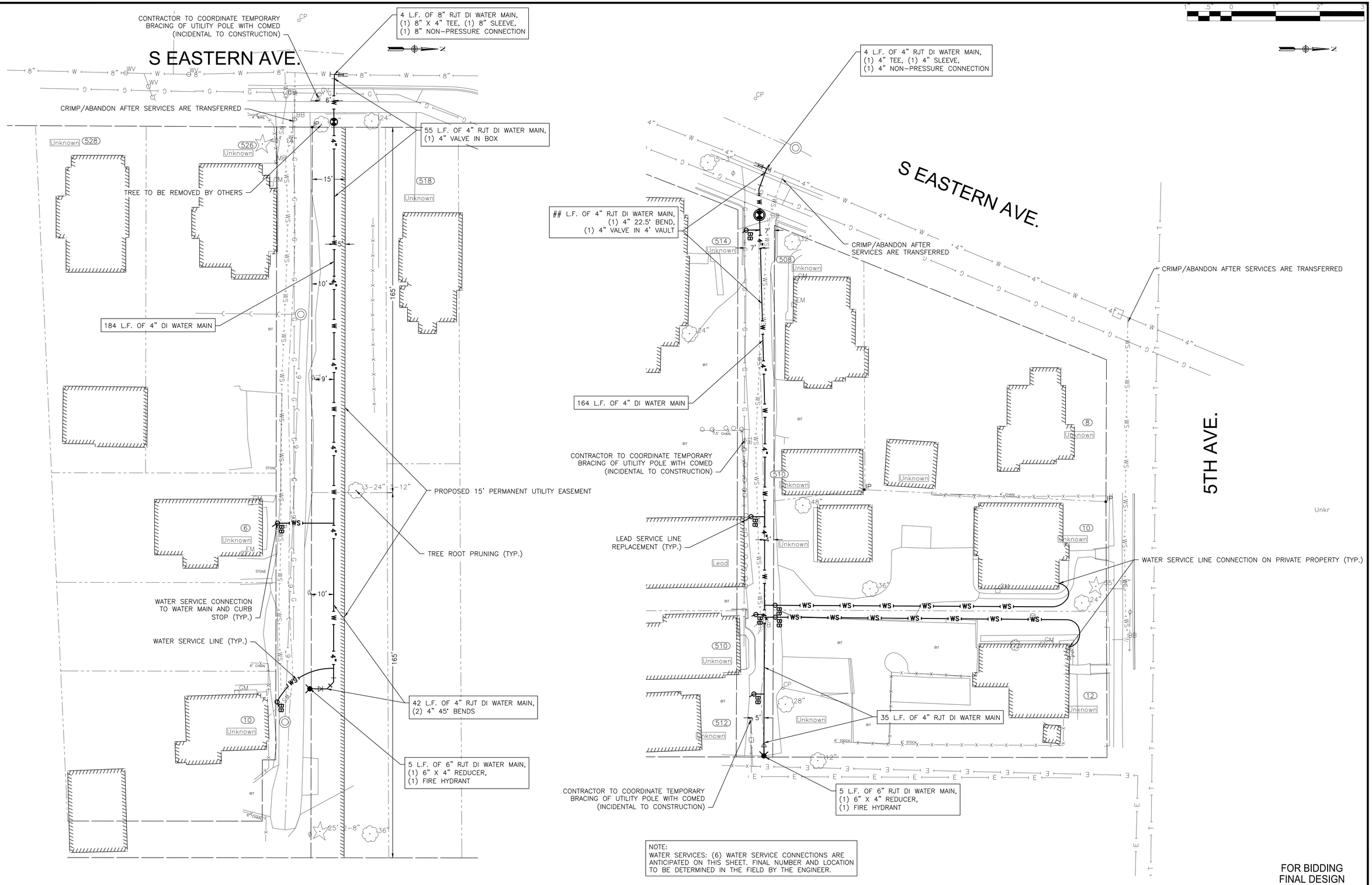


BRUCE STREET

FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2871-0325	BRUCE STREET STA. 120+00 TO STA. 122+20 PLAN AND PROFILE	DESIGNED – RMM DRAWN – JJS CHECKED – PMK DATE – 01/31/2025
		REVISED –			
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 2325880.00	TOTAL SHEETS: 34
		REVISED –			SHEET NO.: C018

P:\JOLITC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PH1-DESIGN_SHEETS.DWG 120+00.00
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25



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

FOR BIDDING
FINAL DESIGN

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-DENNIS_CT-DESIGN_SHEETS.DWG DENNIS CT. PLAN
Plotted: 1/27/2025 5:00 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

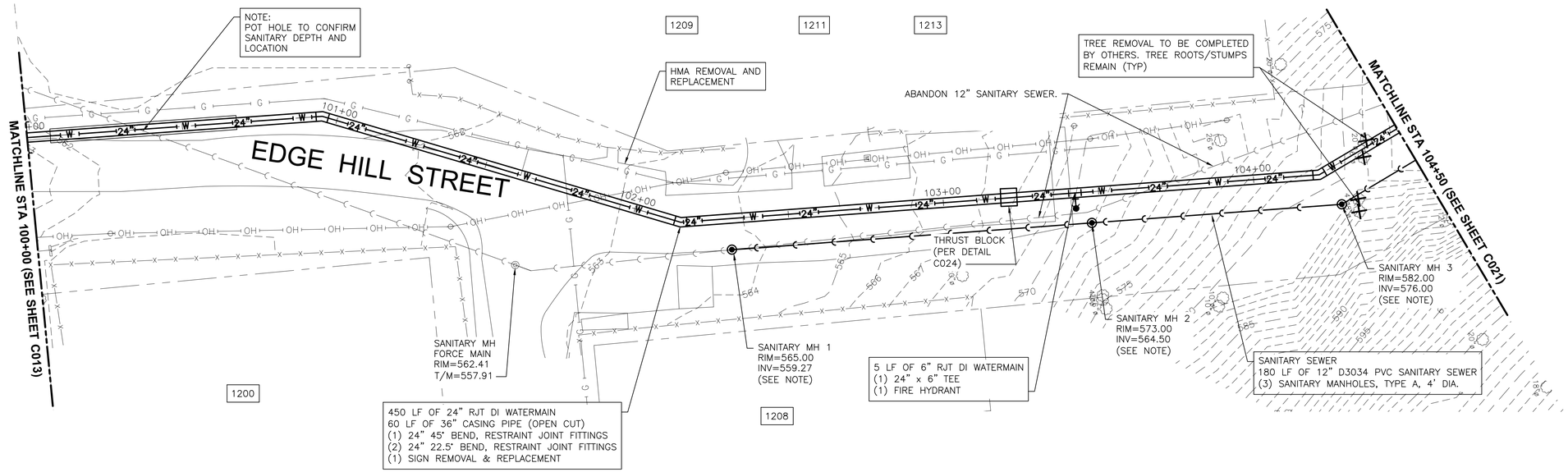
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

DENNIS COURT PLAN

SCALE: AS NOTED | PROJECT NO: 2325880.00

DESIGNED – RMM	
DRAWN – JJS	
CHECKED – PMK	
DATE – 01/31/2025	

TOTAL SHEETS	SHEET NO.
34	C019



NOTE:
ALL MJ PIPING TO BE FULLY RESTRAINED WITH CONCRETE CAST IN PLACE THRUST BLOCKS WHERE INDICATED.

NOTE:
WATER SERVICES:
(0) WATER SERVICES CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.

NOTE:
PROVIDE DOG HOUSE TYPE PRECAST CONCRETE MH'S FOR ALL NEW SANITARY MH'S INSTALL NEW SANITARY SEWER DIRECTLY THROUGH EACH NEW MH.

NOTE:
SANITARY MANHOLE LID TO BE BOLTED DOWN.

NOTE:
COORDINATE SANITARY SEWER BYPASSING WITH CITY PRIOR TO INSTALLATION OF NEW 12" SANITARY AND ABANDONMENT OF EXISTING 12" SANITARY.

COPYRIGHT © 2025 ENGINEERING ENTERPRISES, INC.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF JOLIET, ILLINOIS
CONTRACT NO. 2871-0325

0 1
Bar = 1" When printed FULL size. Adjust stated scales to print size.

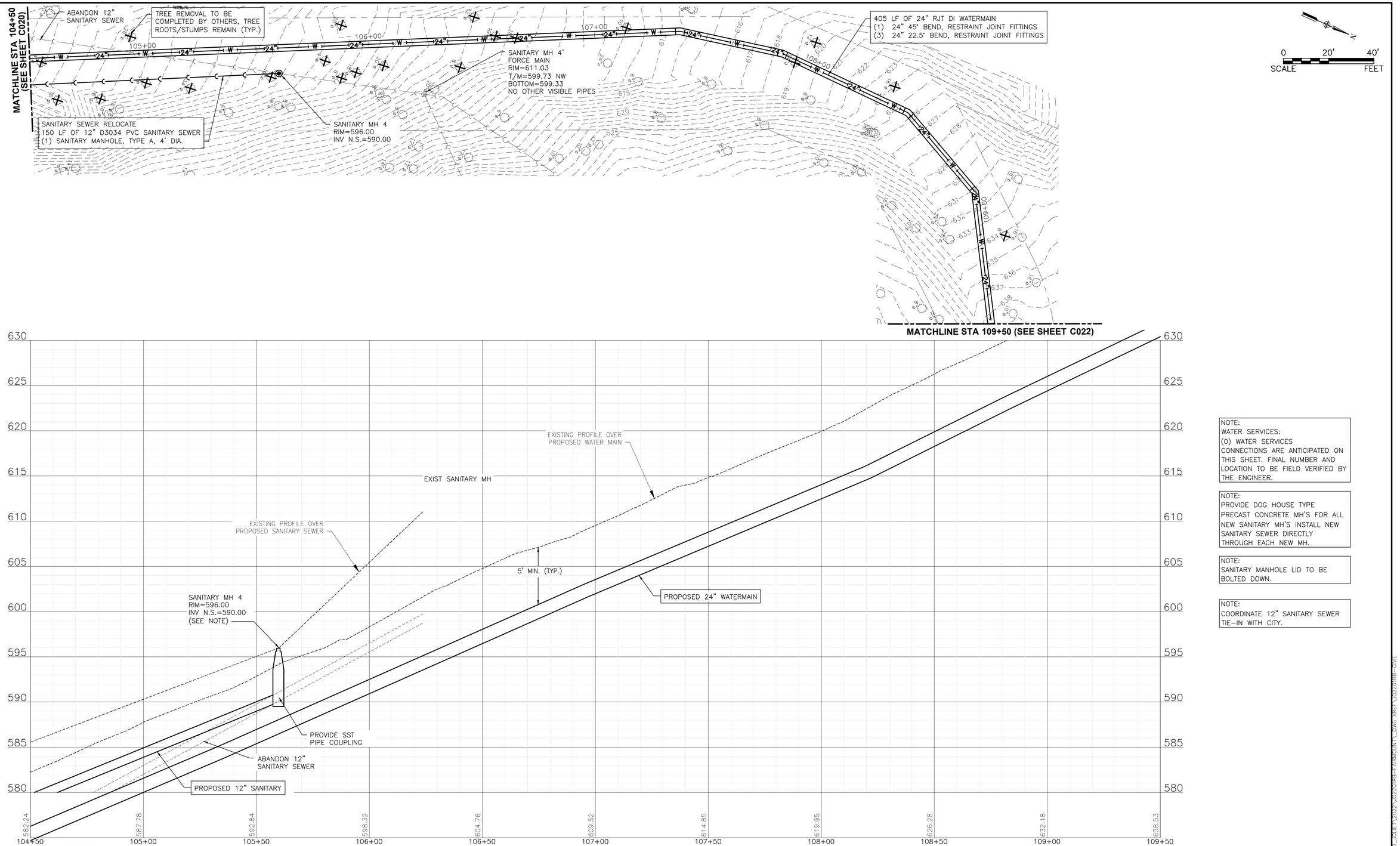
NO.	DATE	REVISIONS

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1
WATER MAIN IMPROVEMENTS

EDGE HILL STREET
PLAN AND PROFILE
STA 100+00 TO STA 104+50

DATE: JANUARY 2025
PROJECT NO: JO2201RB
FILE: JO2201RB-CIVIL
SHEET C020 OF C034

Plotted: January 13, 2025 @ 12:05 AM By: Chris Buckley - Tab: C020 WM Edge Hill P&P



NOTE:
WATER SERVICES:
(0) WATER SERVICES CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.

NOTE:
PROVIDE DOG HOUSE TYPE PRECAST CONCRETE MH'S FOR ALL NEW SANITARY MH'S INSTALL NEW SANITARY SEWER DIRECTLY THROUGH EACH NEW MH.

NOTE:
SANITARY MANHOLE LID TO BE BOLTED DOWN.

NOTE:
COORDINATE 12" SANITARY SEWER TIE-IN WITH CITY.

COPYRIGHT © 2025 ENGINEERING ENTERPRISES, INC.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF JOLIET, ILLINOIS
CONTRACT NO. 2871-0325

0 1
Bar = 1" When printed FULL size. Adjust stated scales to print size.

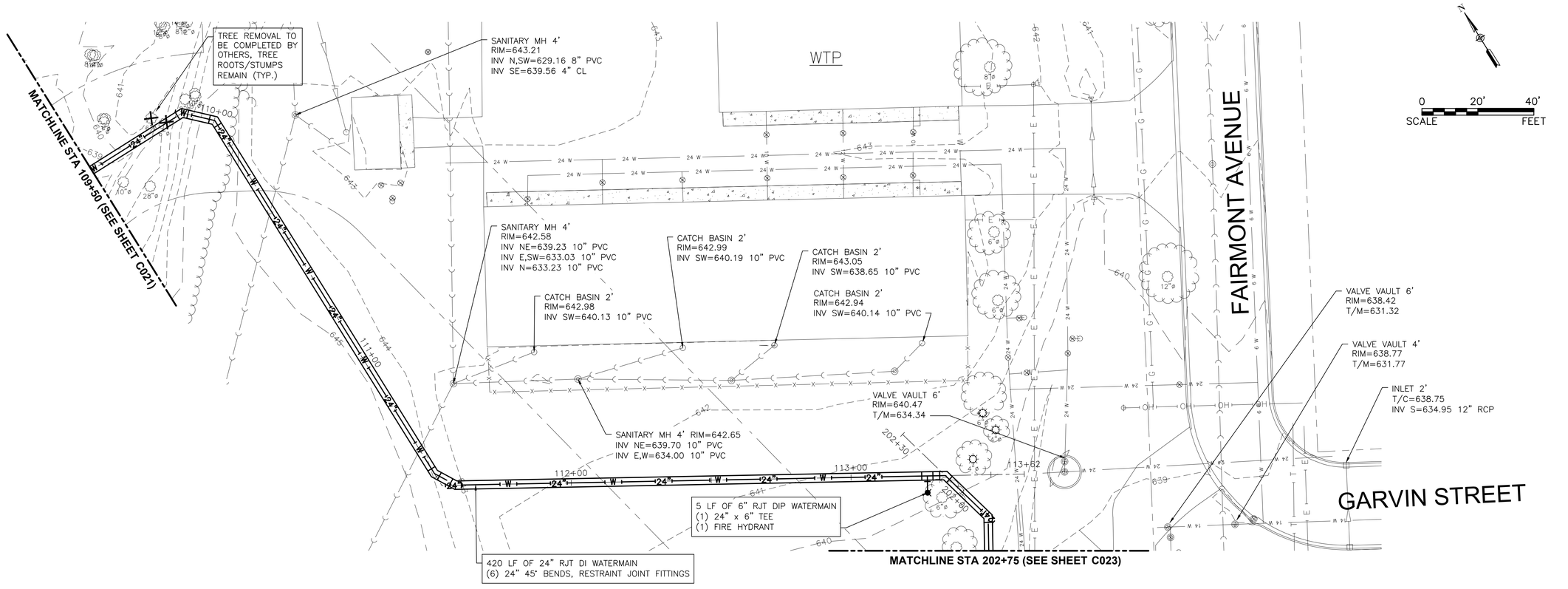
NO.	DATE	REVISIONS

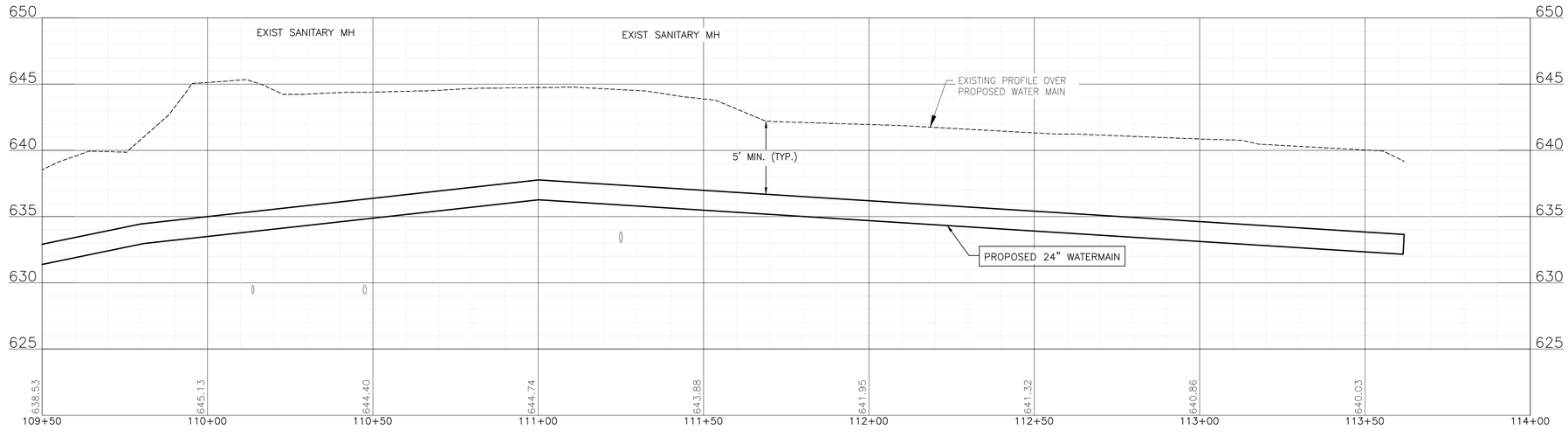
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1
WATER MAIN IMPROVEMENTS

STA 104+50 TO STA 109+50

DATE: JANUARY 2025
PROJECT NO: JO2201RB
FILE: JO2201RB-CIVIL
SHEET C021 OF C034

Plotted: January 13, 2025 @ 12:06 AM By: Chris Buckley - Tab: C021 WM Fairmount P&P





NOTE:
WATER SERVICES:
(0) WATER SERVICES CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE FIELD VERIFIED BY THE ENGINEER.

COPYRIGHT © 2025 ENGINEERING ENTERPRISES, INC.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF JOLIET, ILLINOIS
CONTRACT NO. 2871–0325

0 1
Bar = 1" When printed FULL size. Adjust stated scales to print size.

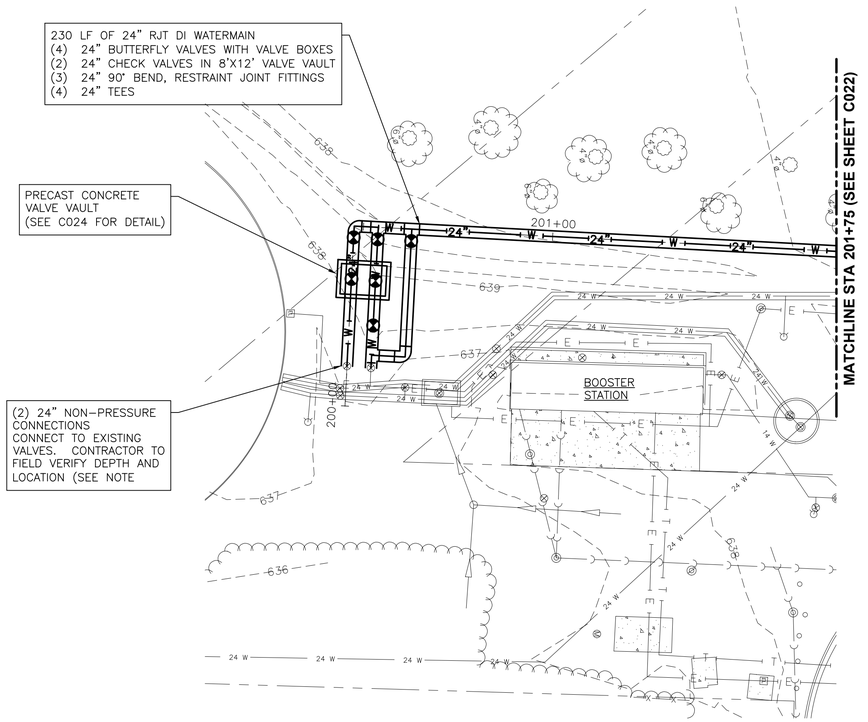
NO.	DATE	REVISIONS

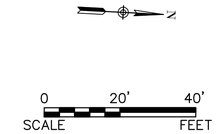
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1
WATER MAIN IMPROVEMENTS

FAIRMOUNT STREET WTP
PLAN AND PROFILE
STA 109+50 TO STA 114+00

DATE: JANUARY 2025
PROJECT NO: JO2201RB
FILE: JO2201RB–CIVIL
SHEET C022 OF C034

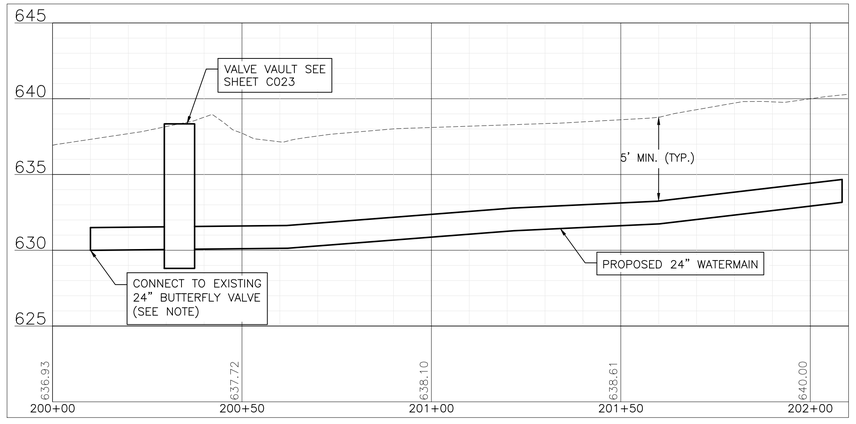
Plotted: January 13, 2025 @ 12:06 AM By: Chris Buckley – Tab: C022 WM Fairmount P&P





NOTE:
CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF THE TWO (2) EXISTING 24" BUTTERFLY VALVES USING POT HOLING AND HAND EXCAVATION. ADJUST THE LOCATION AND DEPTH OF THE PROPOSED 24" WATER MAINS AND VALVE VAULT AS REQUIRED TO CONNECT TO THE TWO (2) EXISTING 24" BUTTERFLY VALVES.

NOTE:
COORDINATE ALL SHUTDOWNS WITH CITY OF JOLIET PLANT PERSONNEL.



COPYRIGHT © 2025 ENGINEERING ENTERPRISES, INC.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF JOLIET, ILLINOIS
CONTRACT NO. 2871-0325

0 1
Bar = 1" When printed FULL size. Adjust stated scales to print size.

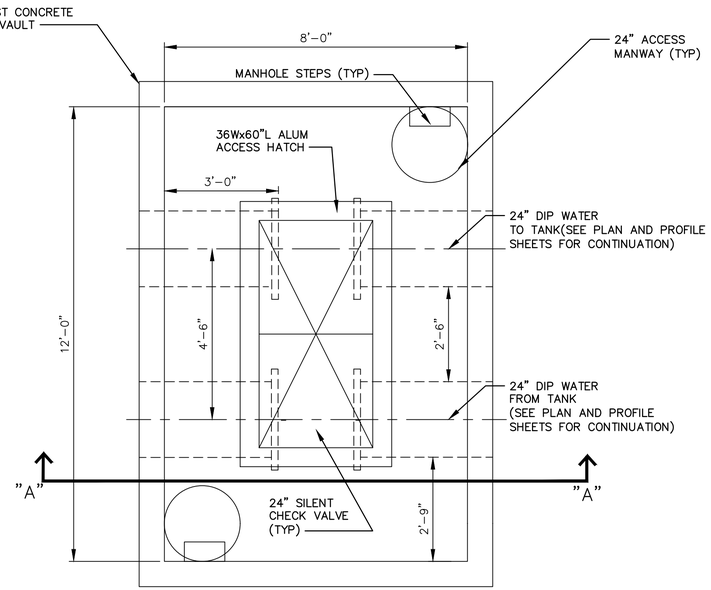
NO.	DATE	REVISIONS

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1
WATER MAIN IMPROVEMENTS

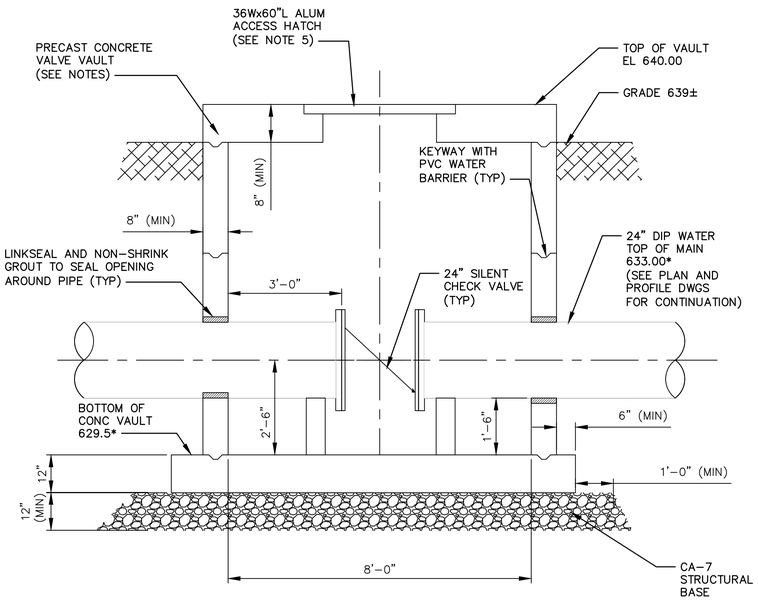
FAIRMOUNT STREET WTP
PLAN AND PROFILE
STA 109+50 TO STA 114+00

DATE: JANUARY 2025
PROJECT NO: JO2201RB
FILE: JO2201RB-CIVIL
SHEET C023 OF C034

Plotted: January 13, 2025 @ 12:06 AM By: Chris Buckley - Tab: C023 WM Gavin P&P



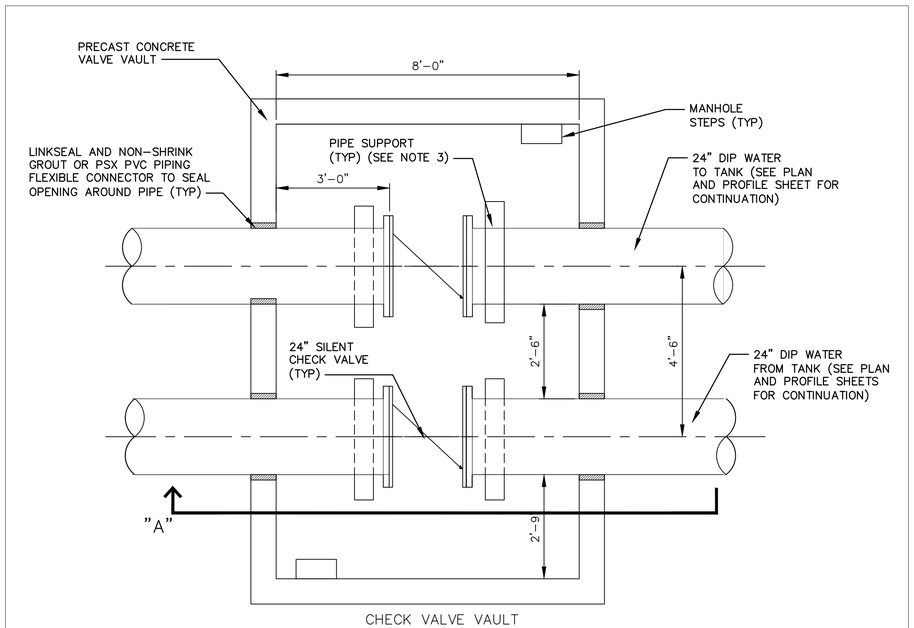
CHECK VALVE VAULT
UPPER PLAN
SCALE: N.T.S.



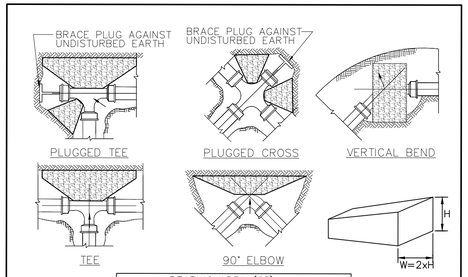
CHECK VALVE VAULT
SECTION A
SCALE: N.T.S.

NOTES

1. CONTRACTOR TO VERIFY VIA POT-HOLING AND HAND EXCAVATION THE LOCATION AND DEPTH OF TWO (2) EXISTING 24" VALVES AT THE WTP 13 SITE AS SHOWN ON DWG C22. SUBMIT FIELD INFORMATION TO ENGINEER AND ADJUST THE DEPTH OF THE PROPOSED 24" WATER MAINS AND VALVE VAULT AS REQUIRED PRIOR TO SUBMITTING VALVE VAULT SHOP DRAWING.
2. PRECAST CONCRETE VALVE VAULT TO BE CONSTRUCTED BY A QUALIFIED FABRICATOR THAT ASSUMES RESPONSIBILITY FOR ENGINEERING PRECAST CONCRETE STRUCTURES TO COMPLY WITH PERFORMANCE REQUIREMENTS. PRECAST CONCRETE VALVE VAULT TO BE CONSTRUCTED PER MIN REQUIREMENTS:
   - 2.1. DESIGNED TO COMPLY WITH ACI318, CI MNL 120, AND ASTM C857 AND C858.
   - 2.2. WITH MIN 28 DAY COMPRESSIVE STRENGTH f'c 4000 PSI CONCRETE IN ACCORDANCE WITH ASTM C478 AND PER ACI318.
   - 2.3. DEFORMED WIRE REINFORCING WWR PER ASTM A1063
   - 2.4. REINFORCING BARS PER ASTM A615, GRADE 60. WELDABLE BARS SHALL CONFORM TO ASTM A706, GRADE 60.
   - 2.5. PROVIDE KEYWAYS AND PVC WATER BARRIERS AT ALL JUNCTIONS BETWEEN CONCRETE PRECAST BARREL SECTIONS AND TOP AND AND BOTTOM CONCRETE SLABS.
   - 2.6. FINAL PRECAST VALVE VAULT DESIGN TO BE STAMPED AND SIGNED BY A IL LICENSED STRUCTURAL ENGINEER.
3. PROVIDE SST OR CONC. PIPE SUPPORTS FOR THE CHECK VALVES AND VAULT PIPING AS REQUIRED.
4. EXCAVATE FOR THE DEPTH OF THE STRUCTURE AS REQUIRED. HAVE QUALIFIED GEOTECHNICAL ENGINEER TEST FOR MINIMUM SOIL BEARING PRESSURE OF 3,000 PSIG. OVEREXCAVATE AS REQUIRED UNTIL SPECIFIED SOIL BEARING PRESSURE IS ACHIEVED. ADDITIONAL EXCAVATION AND STRUCTURAL FILL BELOW LIMITS SHOWN ARE TO BE PAID PER APPROPRIATE UNIT PRICE SCHEDULE.
5. 36"W x 72"L ALUMINUM ACCESS HATCH TO BE CAST INTO THE TOP OF THE PRECAST VAULT CONCRETE SLAB. COORDINATE WITH PRECAST CONCRETE VAULT SUPPLIER. ACCESS HATCH TO BE HALLIDAY SERIES WR2 MODEL W2R7236 OR EQUAL.
   - 5.1 ALTERNATIVE HATCH MOUNTING DESIGN ON TOP OF THE VALVE VAULT MAY BE SUBMITTED UTILIZING HALLIDAY ACCESS HATCH SERIES F1H-1, MODEL F1H3672 OR APPROVED EQUAL.
6. 24" ACCESS MANWAYS TO BE CAST/CORED INTO THE TOP OF THE PRECAST VAULT STRUCTURE. LOCATION OF 24" MANWAYS CAN BE ADJUSTED TO ACCOMODATE ACCESS HATCH. MANHOLE FRAMES AND LIDS PER CITY OF JOLIET DETAIL WITH LIDS STAMPED "WATER" AND "CITY OF JOLIET".
7. PROVIDE LIFTING ANCHORS/LUGS AS REQUIRED TO FACILITATE DELIVERY AND PLACEMENT OF VAULT.
8. MANHOLE STEPS TO BE STEEL REINFORCED COPOLYMER POLYPROPYLENE CONFORMING TO ASTM C478.



CHECK VALVE VAULT
LOWER PLAN
SCALE: N.T.S.



BEARING AREA (SF)			
FITTING	TEES AND	BEND	BEND
SIZE	PLUGS	90 DEG	45 DEG
24"			60
24"			60

NOTES:
1. ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
2. ARROWS INDICATE DIRECTION OF THRUST.
3. ALL BLOCKS TO BE 3000 P.S.I. CONCRETE.
4. THESE DETAILS IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN WARRANTED BY THE CITY OR ENGINEER
5. DEPTH FROM GROUND SURFACE TO TOP OF BLOCKING SHALL BE GREATER THAN HEIGHT OF BLOCKING.
6. ALL FITTINGS, VALVES, ETC. SHALL BE WRAPPED WITH POLYETHYLENE BEFORE CONCRETE IS PLACED.
7. WIDTH OF THE THRUST BLOCK SHOULD BE AT LEAST TWO TIMES THE HEIGHT OF THE THRUST BLOCK.
8. PRECAST BLOCKS ONLY EXCEPT AT FIRE HYDRANTS AS NOTED ON THE FIRE HYDRANT DETAIL.

COPYRIGHT © 2025 ENGINEERING ENTERPRISES, INC.

TYPICAL THRUST BLOCK INSTALLATION

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	SCALE: N.T.S.	FOLDER: EE-WA	DRAWING NUMBER: MI-08	DRAWN BY: JPS
	DATE: 07/23/24			REVISED:

COPYRIGHT © 2025 ENGINEERING ENTERPRISES, INC.

50 YEARS
Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

CITY OF JOLIET, ILLINOIS
CONTRACT NO. 2871-0325

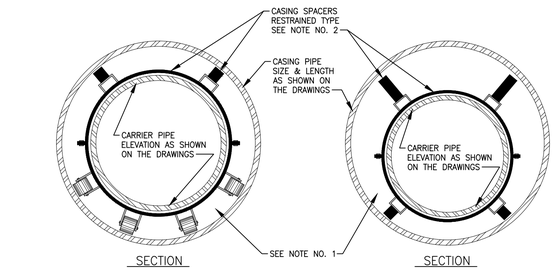
0 1
Bar = 1" When printed FULL size. Adjust stated scales to print size.

NO.	DATE	REVISIONS

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1
WATER MAIN IMPROVEMENTS

DATE: JANUARY 2025
PROJECT NO: JO2201RB
FILE: JO2201RB-CIVIL
SHEET **C024** OF **C034**

Plotted: January 13, 2025 @ 12:06 AM By: Chris Buckley — Tab: C024 Detail Sheet
C:\EEI\JOBS\PROJECTS\JO2201RB-HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS\CIVIL\DWG\JO2201RB-CIVIL



NOTES

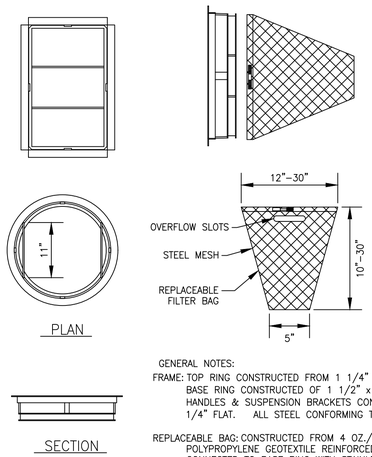
1. FILLING OF ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH SAND OR PEA GRAVEL IS NOT REQUIRED WHEN UTILIZING CASING SPACERS, UNLESS CONTRACTOR IS INSTRUCTED TO DO SO ON DRAWINGS OR IN SPECIFICATIONS.
2. WHERE CARRIER PIPE IS NOT CENTERED IN CASING PIPE, PROVIDE CASING SPACERS WITH LEGS THAT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

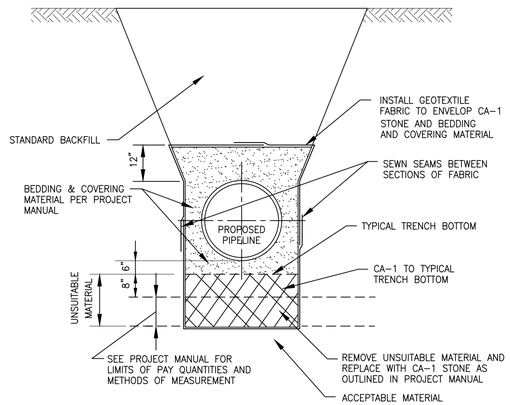
STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

INLET PROTECTION
FILTER DETAIL
GEN-02

DATE: OCT. 2017

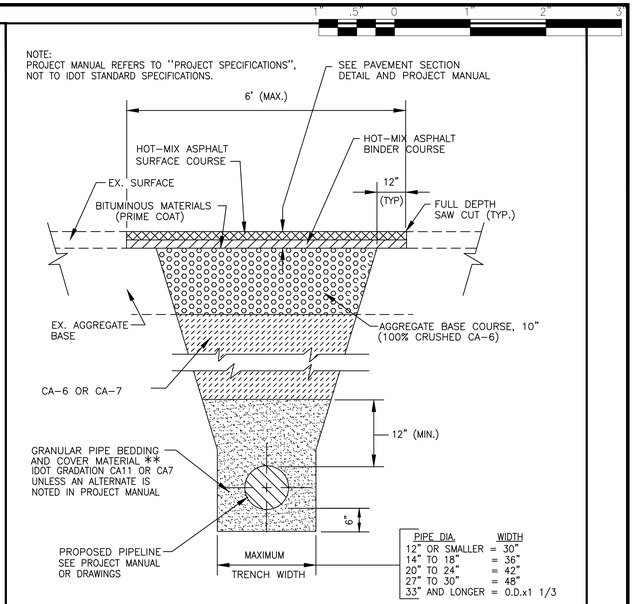


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

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

DATE: OCT. 2017



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.

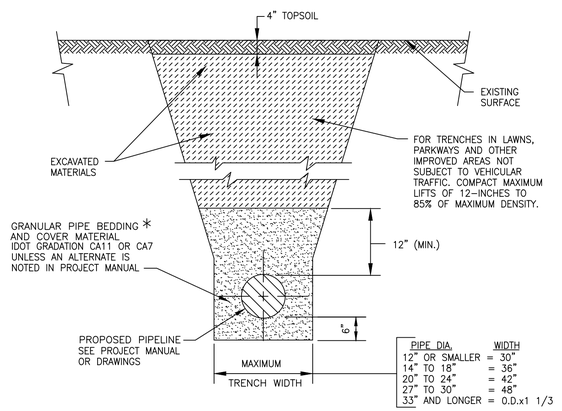
NOT TO SCALE

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.



FOR NON-PAVED AREAS

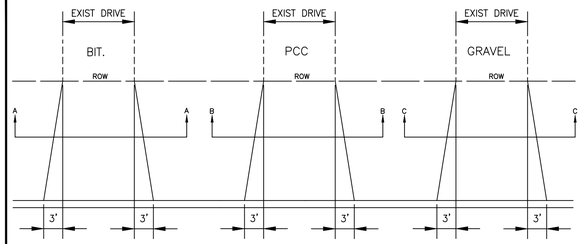
* FOR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II. FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

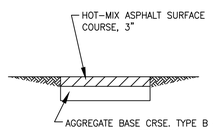
NOT TO SCALE

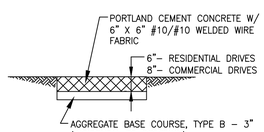
CITY OF JOLIET, ILLINOIS

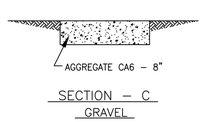
TYPICAL TRENCH DETAIL
NON PAVED AREAS
GEN-05

DATE: OCT. 2017









NOTES:

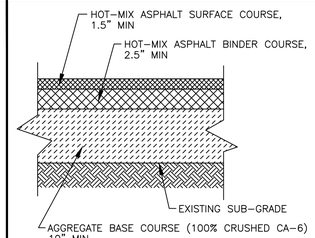
1. APRON: 8:1 SLOPE FROM FRONT OF SIDEWALK TO BACK OF CURB.
2. SIDEWALK: 1/4" / FT SLOPE

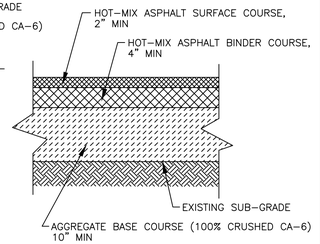
NOT TO SCALE

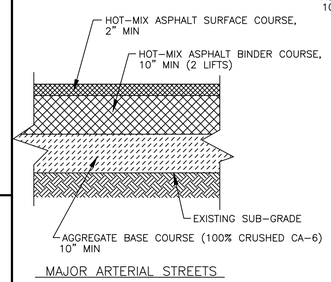
CITY OF JOLIET, ILLINOIS

DRIVEWAY PAVEMENT
DETAIL
PVT-01

DATE: OCT. 2017







NOTES:

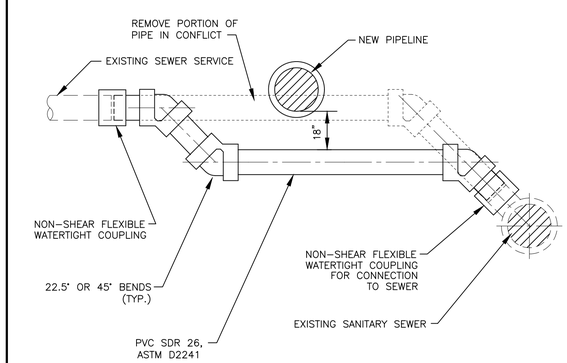
1. ALL PAVEMENT PATCHES SHALL BE SAWCUT FULL-DEPTH.
2. MAXIMUM ALLOWABLE WIDTH USED FOR TRENCH RESTORATION PAY QUANTITY CALCULATIONS SHALL BE 6'.
3. DETAILS APPLY UNLESS OTHERWISE NOTED ON PLANS.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL PAVEMENT
SECTION
PVT-02

DATE: OCT. 2017



NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE
RELOCATION
SAN-03

DATE: OCT. 2017

FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

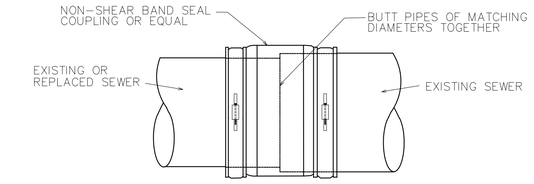
CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

CONSTRUCTION DETAILS

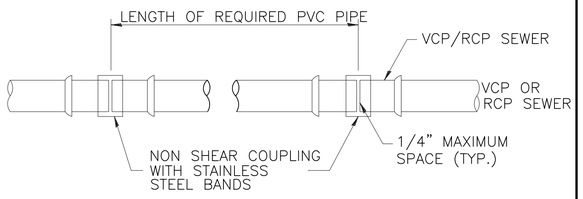
SCALE: AS NOTED | PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS			
CHECKED – PMK		34	C025
DATE – 01/31/2025			

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-COVER_SHEETS.DWG Details
Plotted: 1/27/2025 5:01 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois - Professional Design Firm
License No. - 184-001121 - Expires 4-30-25



PIPE COUPLING DETAIL



NOTES:

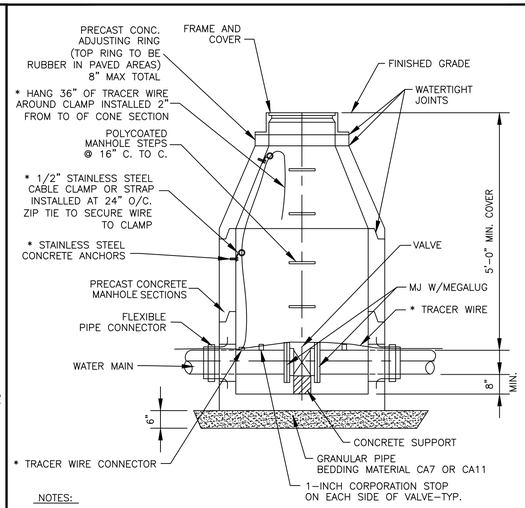
1. CONNECTION TO CIPP LINING SHALL BE NON-SHEAR COUPLINGS THAT ARE MADE SPECIFICALLY TO FIT THE OUTSIDE DIAMETER OF CURED-IN-PLACE PIPE (CIPP)

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" THROUGH 10", 5'-0" FOR SIZES 12" THROUGH 16", 6'-0" FOR SIZES 20" 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.

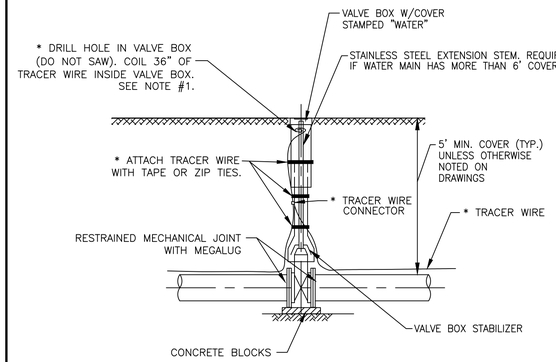
* FOR PVC WATER MAIN INSTALLATION ONLY

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT DETAIL
WTR-01

DATE: NOVEMBER. 2022



* FOR PVC WATER MAIN INSTALLATION ONLY

NOTES:

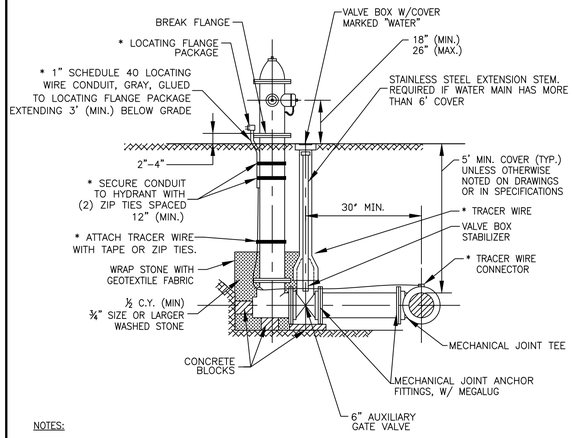
* 1. ATTACH TRACER WIRE TO OUTSIDE OF VALVE BOX USING TAPE OR ZIP TIES. DRILL ⅝" DIA. HOLE IN VALVE BOX 6" FROM TOP OF VALVE BOX.

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

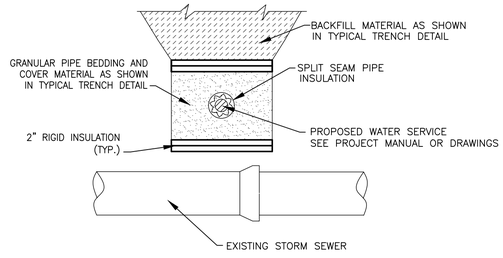
* FOR PVC WATER MAIN INSTALLATION ONLY

NOT TO SCALE

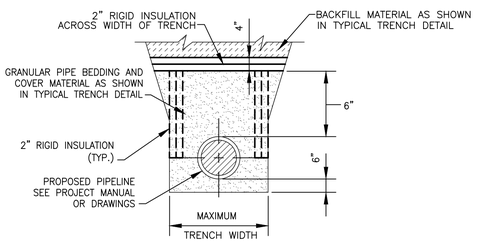
CITY OF JOLIET, ILLINOIS

FIRE HYDRANT DETAIL
WTR-03

DATE: NOVEMBER 2022



WATER SERVICE



WATER MAIN

NOTES:

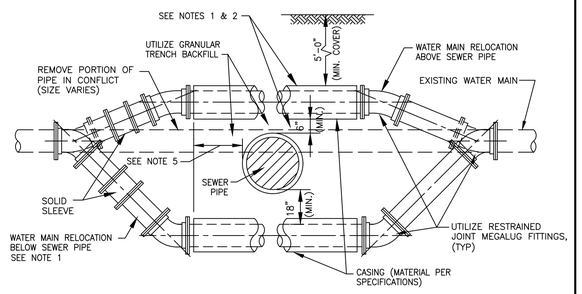
1. TO BE USED WHEN WATER MAIN AND / OR WATER SERVICE BURY DEPTH IS < 4' OR WHEN WATER SERVICE CROSSES ABOVE STORM SEWER.

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.

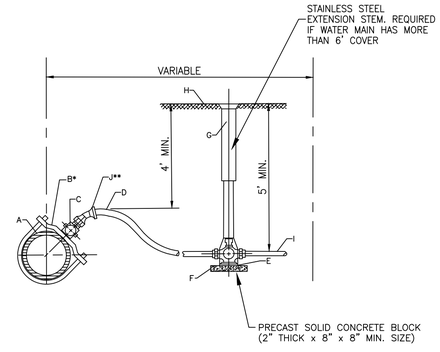
2. WHEN WATER MAIN CROSSES ABOVE SEWER AND MAINTAINS THE REQUIRED 18" OF SEPARATION, THE CASING PIPE IS NOT REQUIRED.
3. WATER MAIN RELOCATIONS ARE SUBJECT TO INSPECTION AT NORMAL SYSTEM PRESSURE BEFORE BURIAL.
4. USE ONLY 45 DEGREE BENDS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
5. CASING MUST EXTEND 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

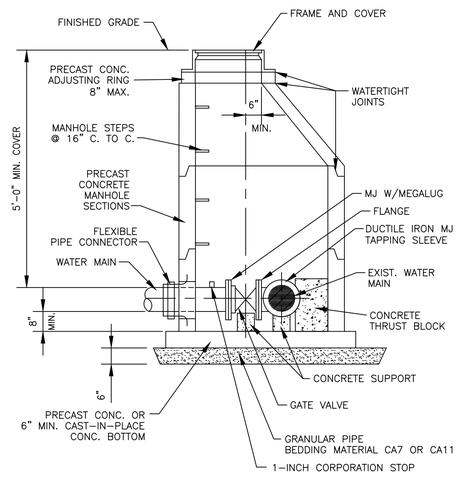
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

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 105021

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PRESSURE CONNECTION DETAIL
WTR-07

DATE: OCT. 2017

FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 2325880.00

		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – JJS		34	C026
CHECKED – PMK			
DATE – 01/31/2025			

P:\JOLTC\2325880-2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880-HEGGIE_PARK_P1-COVER_SHEETS.DWG Details (2)
Plotted: 1/27/2025 5:01 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184-001121 – Expires 4-30-25

DUCTILE IRON–RESTRAINT JOINT TYPE PIPE LENGTH (FEET)								
FITTING TYPE	DIAMETER (IN)							
	4"	6"	8"	10"	12"	16"	20"	24"
HORIZONTAL BEND								
11.25°	5	5	5	5	5	5	5	5
22.5°	5	5	5	5	10	10	10	10
45°	5	10	10	10	15	15	20	25
90°	15	20	20	25	30	40	45	55
VERTICAL BEND								
45°	20	25	35	40	45	60	70	80
TEE	5	5	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	20	30	35	45	50	65	80	90
VALVE (TESTING PRESSURE)	40	60	75	90	105	135	165	195
REDUCER								
6" NOMINAL PIPE	30	–	–	–	–	–	–	–
8" NOMINAL PIPE	55	35	–	–	–	–	–	–
10" NOMINAL PIPE	75	55	30	–	–	–	–	–
12" NOMINAL PIPE	90	80	55	35	–	–	–	–
16" NOMINAL PIPE	125	115	100	80	60	–	–	–
20" NOMINAL PIPE	160	150	135	125	105	60	–	–
24" NOMINAL PIPE	190	180	170	160	145	105	60	–

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

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

POLYWRAPPED DI RJT DETAIL

WTR–08

DATE: NOVEMBER 2022

PVC–RESTRAINT JOINT TYPE PIPE LENGTH (FEET)								
FITTING TYPE	DIAMETER (IN)							
	4"	6"	8"	10"	12"	16"	20"	24"
HORIZONTAL BEND								
11.25°	5	5	5	5	5	5	5	5
22.5°	5	5	5	5	5	10	10	10
45°	5	10	10	10	15	15	20	20
90°	10	15	15	20	25	35	40	45
VERTICAL BEND								
45°	15	15	20	25	30	40	45	55
TEE	5	5	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	15	20	25	30	35	45	50	60
VALVE (TESTING PRESSURE)	30	40	50	60	70	90	110	125
REDUCER								
6" NOMINAL PIPE	20	–	–	–	–	–	–	–
8" NOMINAL PIPE	35	20	–	–	–	–	–	–
10" NOMINAL PIPE	50	35	20	–	–	–	–	–
12" NOMINAL PIPE	60	50	40	20	–	–	–	–
16" NOMINAL PIPE	80	75	65	55	40	–	–	–
20" NOMINAL PIPE	105	95	90	80	70	40	–	–
24" NOMINAL PIPE	120	115	110	105	95	70	40	–

NOTE:

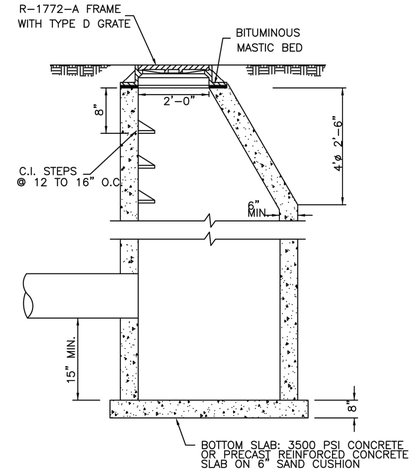
RJT LENGTHS MAY VARY DEPENDING ON SITE CONDITIONS. LENGTHS SHOWN ARE MINIMUM PER 5' BURY DEPTH OF WATER MAIN AND, AGGREGATE PIPE BACKFILL.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PVC RJT DETAIL
WTR–09

DATE: NOVEMBER 2022

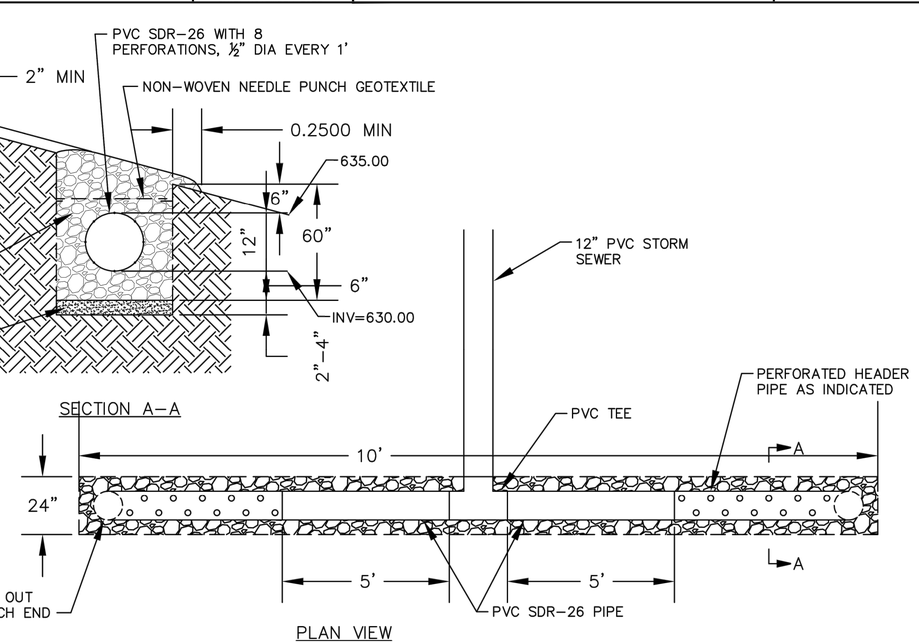


NOTE: CONTRACT UNIT PRICE SHALL INCLUDE FRAME & LID OR GRATE AS SPECIFIED

COPYRIGHT © 2024 ENGINEERING ENTERPRISES, INC.

CATCH BASIN TYPE "A"

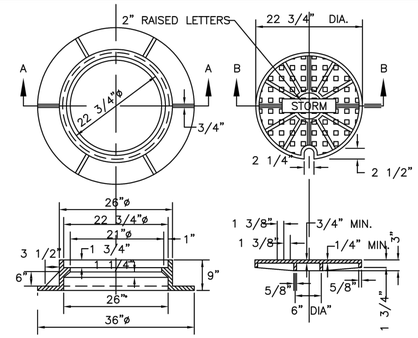
Engineering Enterprises, Inc.	SCALE:	FOLDER:	DRAWING NUMBER:	DRAWN BY:
52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466–9350	N.T.S. DATE: 1/21/97	EE-ST	CB-02	REVISED:



LEVEL SPREADER

Engineering Enterprises, Inc.	SCALE:	FOLDER:	DRAWING NUMBER:	DRAWN BY:
52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466–9350	N.T.S. DATE: 10/01/07	EE-ST	DE-06	WCP REVISED:

COPYRIGHT © 2024 ENGINEERING ENTERPRISES, INC.

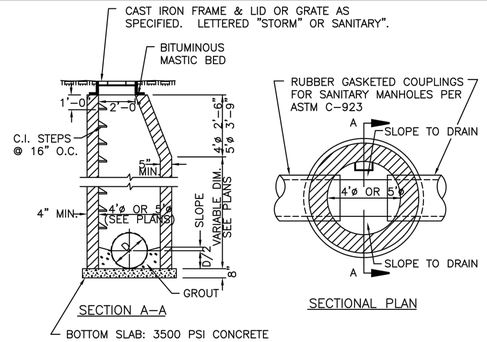


1.) CLOSED LIDS SHALL HAVE THE WORD "SANITARY, STORM, OR WATER" CAST IN AS APPLICABLE
2.) SANITARY MANHOLE LIDS SHALL BE SELF–SEALING WITH CONCEALED PICKHOLES
3.) DIMENSIONS ARE COMPARABLE TO NEENAH R–1712–C
4.) STORM MANHOLE LIDS MAY BE OPEN OR CLOSED AS SPECIFIED ON PLANS (USE TYPE B CLOSED LIDS OR TYPE D GRATE FOR OPEN LIDS)

COPYRIGHT © 2024 ENGINEERING ENTERPRISES, INC.

TYPE 1 MANHOLE FRAME & COVER

Engineering Enterprises, Inc.	SCALE:	FOLDER:	DRAWING NUMBER:	DRAWN BY:
52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466–9350	N.T.S. DATE: 12/21/95	EE-ST	MH-06	GES REVISED: 7/22/96



NOTE: CONTRACT UNIT PRICE SHALL INCLUDE FRAME & LID OR GRATE AS SPECIFIED

STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS.

SEWER MANHOLE	
DIA. OF SEWER	INSIDE DIA. OF MANHOLE
18" & UNDER	4'–0"
21" THRU 42"	5'–0"

COPYRIGHT © 2024 ENGINEERING ENTERPRISES, INC.

MANHOLE TYPE "A" 4' OR 5' DIA

Engineering Enterprises, Inc.	SCALE:	FOLDER:	DRAWING NUMBER:	DRAWN BY:
52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466–9350	N.T.S. DATE: 5/16/90	EE-ST	MH-01	REVISED: 7/22/96

FOR BIDDING
FINAL DESIGN

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –
		REVISED –
		REVISED –
		REVISED –

CITY OF JOLIET, ILLINOIS
HEGGIE PARK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2871-0325

CONSTRUCTION DETAILS

SCALE: AS NOTED | PROJECT NO: 2325880.00

DESIGNED – RMM	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	34	C027
CHECKED – PMK		
DATE – 01/31/2025		

P:\JOLTC\2325880–2025 WATER MAIN\CAD\HEGGIE PARK PHASE 1\01_CIVIL 3D\01_SHTS–PLANS\2325880–HEGGIE_PARK_P1–COVER_SHEETS.DWG Details (3)
Plotted: 1/27/2025 5:02 PM By: RMOELLER
Copyright © 2025, By Baxter & Woodman, Inc.
State of Illinois – Professional Design Firm
License No. – 184–001121 – Expires 4–30–25