FINAL DESIGN
FOR BIDDING

CITY OF JOLIET, ILLINOIS

KERWIN TERRACE WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2684-0123

WATER MAIN REPLACEMENT IEPA LOAN NO. L17-6074

LEAD SERVICE REPLACEMENT IEPA LOAN NO. L17-5746



NO SCALE

VICINITY MAP

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J.U.L.I.E DESIGN STAGE REQUEST
DIG NO. A220470352
EXISTING UTILITIES:
WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.

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

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"LICENSE EXPIRES 11-30-2023"

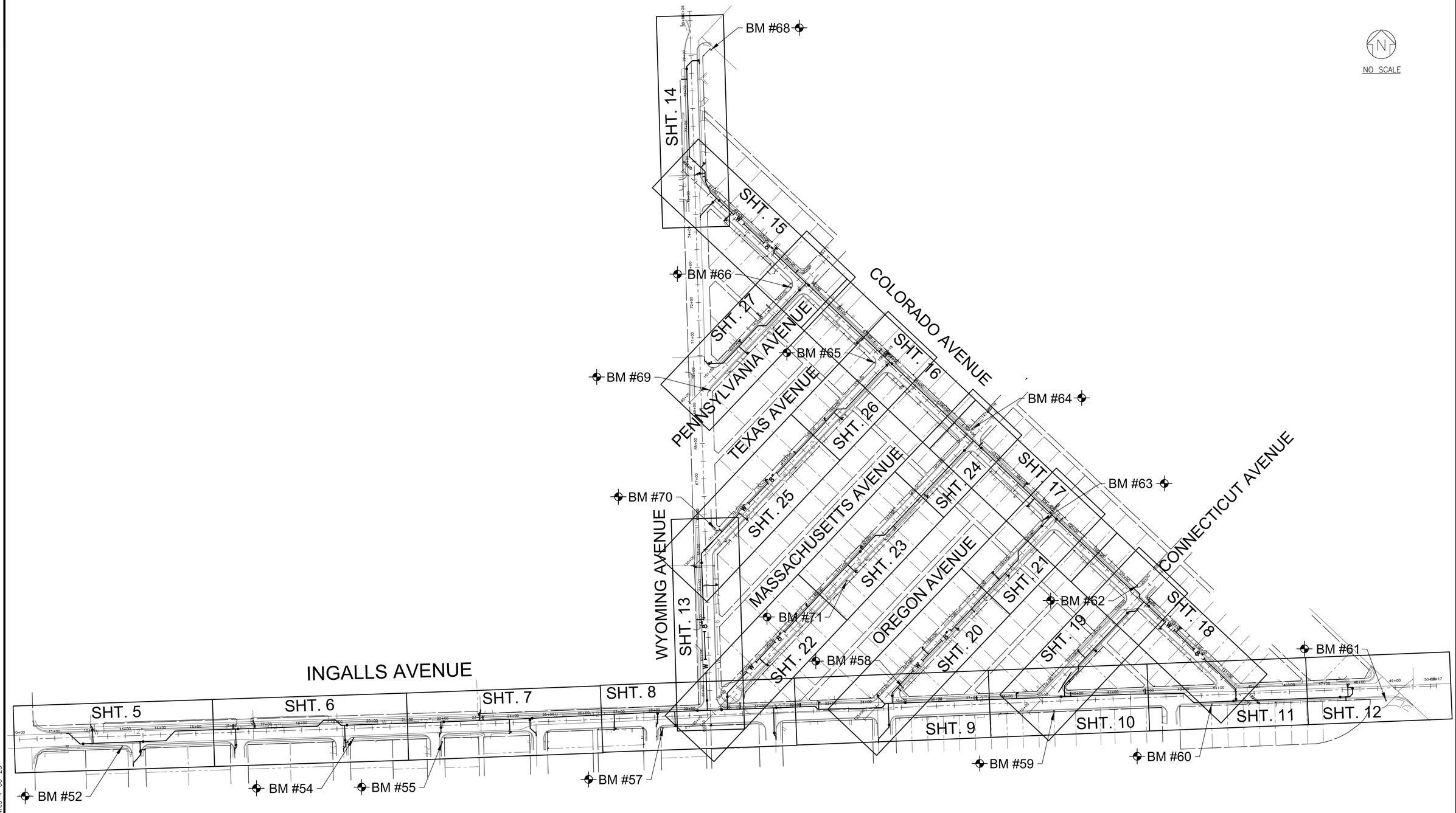
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PROJECT NO.: 211917 DATE: 10/27/2022

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-COVER_GEN_DETS-KERWIN TERRACE.DWG COVER
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FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123
		REVISED –	
		REVISED –	
		REVISED –	

KERWIN TERRACE SHEET KEY

SCALE:	AS NOTED	PROJECT NO:	211917

DESIGNED – PMK	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	30	2
CHECKED – LMS		
DATE – 10/27/2022		

P:\JOLIT\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-KERWIN TERRACE-SHEET KEY.DWG SHEET KEY
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LEGEND

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

LEGEND

EXISTING		PROPOSED
EM	ELECTRIC METER	
ET	PAD MOUNTED TRANSFORMER	
EV	ELECTRIC VAULT	
JB	JUNCTION BOX	
	UTILITY POLE	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
MB	MAIL BOX	
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD	
	HANDHOLE	
12"	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	12" (HATCHED SHALL BE REMOVED)
16"	CONIFEROUS TREE (W/ HEIGHT)	16" (HATCHED SHALL BE REMOVED)
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
—X—X—X—X—	FENCE	
	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	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

BENCHMARKS (NAVD 88 DATUM)

B.M. # 52	RAILROAD SPIKE SET IN NORTH FACE POWER POLE AT THE SOUTHWEST CORNER OF INGALLS AVENUE AND WINTHROP AVENUE ELEV. = 664.31
B.M. # 54	RAILROAD SPIKE SET IN NORTH FACE POWER POLE AT THE SOUTHEAST CORNER OF INGALLS AVENUE AND ALANN DRIVE ELEV. = 622.01
B.M. # 55	SOUTHEAST ARROW BOLT ON FIRE HYDRANT AT THE SOUTHEAST CORNER OF INGALLS AVENUE AND KRINGS LANE ELEV. = 663.23
B.M. # 56	RAILROAD SPIKE SET IN NORTH FACE POWER POLE W LIGHT AT THE SOUTHWEST CORNER OF INGALLS AVENUE AND PLAZA DRIVE ELEV. = 662.65
B.M. # 57	RAILROAD SPIKE SET IN NORTH FACE POWER POLE W LIGHT AT THE SOUTHEAST CORNER OF INGALLS AVENUE AND WESTSHIRE DRIVE ELEV. = 664.95
B.M. # 58	RAILROAD SPIKE SET IN WEST FACE POWER POLE W LIGHT AT THE NORTHEAST CORNER OF INGALLS AVENUE AND OREGON AVENUE ELEV. = 660.81
B.M. # 59	RAILROAD SPIKE SET IN NORTH FACE POWER POLE W LIGHT AT THE SOUTH CORNER OF INGALLS AVENUE AND CONNECTICUT AVENUE ELEV. = 660.25
B.M. # 60	RAILROAD SPIKE SET IN NORTH FACE POWER POLE AT THE SOUTHWEST CORNER OF INGALLS AVENUE AND COLORADO AVENUE ELEV. = 661.22
B.M. # 61	RAILROAD SPIKE SET IN NORTH FACE POWER POLE AT THE SOUTHWEST CORNER OF INGALLS AVENUE AND ROUTE 30 ELEV. = 660.67
B.M. # 62	RAILROAD SPIKE SET IN SOUTH EAST FACE POWER POLE W LIGHT AT THE NORTHWEST CORNER OF COLORADO AVE AND CONNECTICUT AVE ELEV. = 660.03
B.M. # 63	RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE W LIGHT AT THE SOUTHWEST CORNER OF COLORADO AVE AND OREGON AVE ELEV. = 658.61
B.M. # 64	RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE W LIGHT AT THE NORTHWEST CORNER OF COLORADO AVE AND MASSACHUSETTS AVE ELEV. = 659.43
B.M. # 65	RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE W LIGHT AT THE SOUTHWEST CORNER OF COLORADO AVENUE AND TEXAS AVENUE ELEV. = 657.631
B.M. # 66	RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE W LIGHT AT THE SOUTHWEST CORNER OF COLORADO AVE AND PENNSYLVANIA AVE ELEV. = 655.291
B.M. # 67	SOUT EAST ARROW BOLT ON FIRE HYDRANT AT THE NORTHWEST CORNER OF COLORADO AVENUE AND WYOMING AVENUE PRIVATE ENTRANCE ELEV. = 650.50
B.M. # 68	NORTHEAST ARROW BOLT ON FIRE HYDRANT AT THE SOUTHEAST CORNER OF ROUTE 30 AND WYOMING AVENUE ELEV. = 653.89
B.M. # 69	RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE W LIGHT AT THE SOUTHEAST CORNER OF PENNSYLVANIA AVE AND WYOMING AVE ELEV. = 656.38
B.M. # 70	RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE W LIGHT AT THE NORTHEAST CORNER OF TEXAS AVENUE AND WYOMING AVENUE ELEV. = 663.00
B.M. # 71	RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE W LIGHT AT THE ADDRESS OF 1218 MASSACHUSETTS AVENUE ELEV. = 663.00

ABBREVIATIONS

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

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

LEGEND, BENCHMARKS, AND ABBREVIATIONS

SCALE: AS NOTED | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS		30	3
CHECKED – LMS			
DATE – 10/27/2022			

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SUMMARY OF QUANTITIES

City of Joliet Kerwin Terrace Water Main Improvements			
No.	PAY ITEM	UNIT	QUANTITY
	PART A – WATER MAIN IMPROVEMENTS		
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	TRAFFIC CONTROL AND PROTECTION	LSUM	1
3	GRANULAR TRENCH BACKFILL	CUYD	7,100
4	DUCTILE IRON PIPE MOBILIZATION	FOOT	299
5	WATER MAIN (OPEN CUT), 6–INCH	FOOT	162
6	WATER MAIN (OPEN CUT), 8–INCH	FOOT	6,881
7	WATER MAIN (OPEN CUT), 12–INCH	FOOT	3,798
8	MISCELLANEOUS FITTINGS	POUND	11,500
9	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1–INCH	EACH	130
10	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5–INCH	EACH	2
11	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2–INCH	EACH	2
12	WATER SERVICE LINE TYPE K – OPEN CUT, 1–INCH	FOOT	1,131
13	WATER SERVICE LINE TYPE K – OPEN CUT, 1.5–INCH	FOOT	50
14	WATER SERVICE LINE TYPE K – OPEN CUT, 2–INCH	FOOT	50
15	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH	FOOT	2,489
16	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH	FOOT	50
17	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH	FOOT	50
18	WATER SERVICE CASING PIPE, 2–INCH	FOOT	230
19	CONNECT TO WATER MAIN (NON–PRESSURE), 6–INCH	EACH	7
20	CONNECT TO WATER MAIN (NON–PRESSURE), 8–INCH	EACH	9
21	CONNECT TO WATER MAIN (NON–PRESSURE), 12–INCH	EACH	1
22	CONNECT TO WATER MAIN (PRESSURE), 8–INCH X 8–INCH	EACH	1
23	CONNECT TO WATER MAIN (PRESSURE), 12–INCH X 12–INCH	EACH	1
24	GATE VALVE, 6–INCH	EACH	3
25	GATE VALVE, 8–INCH	EACH	31
26	GATE VALVE, 12–INCH	EACH	14
27	VALVE BOX	EACH	6
28	VALVE VAULT, 4–FOOT DIAMETER	EACH	28
29	VALVE VAULT, 5–FOOT DIAMETER	EACH	16
30	VALVE VAULT (ADDITIONAL DEPTH), 4–FOOT DIAMETER	VFT	2
31	VALVE VAULT (ADDITIONAL DEPTH), 5–FOOT DIAMETER	VFT	2
32	FIRE HYDRANT	EACH	26
33	FIRE HYDRANT BARREL EXTENSION	VFT	3
34	LINE STOP, 6–INCH	EACH	4
35	LINE STOP, 8–INCH	EACH	5
36	LINE STOP, 12–INCH	EACH	2
37	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
38	STORM SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	67
39	CASING PIPE (OPEN CUT), 16–INCH	FOOT	32
40	INLET PROTECTION FILTER	EACH	112
41	TEMPORARY HOT–MIX ASPHALT PAVEMENT	SQYD	1,000
42	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	4,700
43	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 10.5–INCH BINDER 1.5–INCH SURFACE	SQYD	2,800
44	PORTLAND CEMENT CONCRETE REMOVAL AND REPLACEMENT, 12–INCH	SQYD	700
45	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3–INCH	SQYD	20
46	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH	SQYD	150
47	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,590
48	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	4,100
49	DETECTABLE WARNINGS	SQFT	120
50	PAVEMENT MARKING – LINE, 4–INCH (THERMOPLASTIC)	FOOT	4,090
51	PAVEMENT MARKING – LINE, 12–INCH (THERMOPLASTIC)	FOOT	540
52	PAVEMENT MARKING – LINE, 24–INCH (THERMOPLASTIC)	FOOT	240
53	PAVEMENT MARKING – LETTERS AND SYMBOLS	SQFT	420
54	DETECTOR LOOP REPLACEMENT	FOOT	20
55	RESTORATION OF LAWNS AND PARKWAYS	SQYD	1,400
56	REMOVE AND REPLACE DRAIN TILES, 6–INCH THROUGH 12–INCH	FOOT	230
57	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	14
58	DUST CONTROL	DAY	30
59	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	129
60	SOIL TESTS FOR CONTAMINANTS	EACH	10
61	CONTAMINATED WASTE DISPOSAL	CUYD	129
62	EXPLORATORY EXCAVATION	EACH	10
63	TREE ROOT PRUNING	EACH	19
64	TREE TRIMMING	LSUM	1
65	TREE REMOVAL AND REPLACEMENT, 6–INCH THROUGH 12–INCH	EACH	1
66	TREE REMOVAL AND REPLACEMENT, OVER 12 INCH	EACH	1
67	WATER SERVICE LOCATE	LSUM	1

PART B – LEAD SERVICE LINE IMPROVEMENTS			
68	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	48
69	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (LEAD SERVICE REPLACEMENT), 1–INCH	EACH	15
70	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (LEAD SERVICE REPLACEMENT), 1.5–INCH	EACH	1
71	WATER SERVICE LINE TYPE K – OPEN CUT (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	370
72	WATER SERVICE LINE TYPE K – OPEN CUT (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	30
73	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	850
74	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	30
75	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4–INCH	FOOT	25
76	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	150
77	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	25
78	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	160
79	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	8
80	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD SERVICE REPLACEMENT)	EACH	8
81	UTILITY LOCATION – PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	16
82	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	16
83	WATER METER REPLACEMENT (LEAD SERVICE REPLCEMENT)	EACH	16
84	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	32
85	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	16
86	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	32
87	FENCE TO BE REMOVED AND RE–ERECTED (LEAD SERVICE REPLACEMENT)	FOOT	80
88	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	50
89	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 10.5–INCH BINDER 1.5–INCH SURFACE	SQYD	50
90	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 3–INCH	SQYD	5
91	PCC DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 6–INCH	SQYD	5
92	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	FOOT	29
93	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	80
94	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	30

CITY OF JOLIET WATER SYSTEM GENERAL NOTES

1. VERIFY LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF THE WATER MAIN. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND LOCATE UTILITIES PRIOR TO ANY WORK.

2. WHENEVER IT BECOMES NECESSARY TO RELOCATE UNDERGROUND GAS MAINS, TELEPHONE CONDUIT, OR ELECTRICAL LINES OR SUPPORT OR RELOCATE UTILITY POLES, THE UTILITY COMPANY INVOLVED WILL MAKE SUCH RELOCATION OR PROVIDE POLE SUPPORT. NOTIFY THE UTILITY COMPANY PROMPTLY. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT

3. WHEREVER OBSTRUCTIONS NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING THE PROGRESS OF THE WORK AND INTERFERE TO SUCH AN EXTENT 'THAT ALTERATIONS TO THE DRAWINGS ARE REQUIRED, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CHANGES.

4. HORIZONTAL AND VERTICAL SEPARATION OF WATER MAINS AND SEWER LINES SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

5. PROVIDE 48 HOURS ADVANCE NOTICE TO THE CITY WHEN CONNECTION TO AN EXISTING WATER MAIN WILL BE MADE. COORDINATE SHUTDOWN OF EXISTING WATER MAINS WHEN REQUIRED WITH THE CITY. SCHEDULE THE WORK TO MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS. PROVIDE WRITTEN NOTIFICATION OF SHUTDOWNS TO WATER USERS AFFECTED 24 HOURS IN ADVANCE.

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

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

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

9. ALL PROPOSED WATER MAIN AND SERVICES UNDER AND WITHIN 2' OF PAVEMENT OR SIDEWALK SHALL BE BACKFILLED WITH TRENCH BACKFILL WHICH SHALL BE CRUSHED STONE, GRADATION CA 6 OR CA 7.

10. INSTALL NEW WATER MAIN WITH A MINIMUM OF 5' COVER BELOW EXISTING OR PROPOSED GROUND SURFACE UNLESS GREATER DEPTH IS REQUIRED TO AVOID EXISTING UTILITIES OR WHERE INDICATED ON THE DRAWINGS.

11. PROVIDE COMPRESSION TYPE FIRE HYDRANTS WITH A 5¼–INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O–RING SEALS, TWO 2½–INCH HOSE NOZZLES, AND A 4½–INCH PUMPER NOZZLE WITH NATIONAL STANDARD THREADS, A NATIONAL STANDARD OPERATING NUT, AND AN ABOVE GROUND BREAK FLANGE. COLOR FOR HYDRANTS ON POTABLE DISTRIBUTION MAINS SHALL BE RED, HYDRANTS ON RAW WATER MAINS SHALL BE GREEN. COLOR FOR PRIVATE SYSTEM HYDRANTS SHALL BE YELLOW. ACCEPTABLE MANUFACTURERS ARE CLOW MEDALLION, EJ 5BR250, OR MUELLER CENTURION A423.

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

13. GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA C515 (DUCTILE IRON BODY), BRONZE FITTED, RESILIENT WEDGE AND SEAT TYPE WITH NON–RISING STEM AND O–RING PACKING. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE A FUSION BONDED EPOXY COATING. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.

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

15. LOCATE PRESSURE CONNECTIONS, IF INDICATED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, A MINIMUM OF 2' FROM ANY EXISTING REPAIR SLEEVES OR PIPE JOINTS.

16. THE CITY OF JOLIET WATER DEPARTMENT SHALL BE RESPONSIBLE FOR COMPLETING ALL TAPS TO EXISTING WATER MAINS. CONTRACTOR WILL BE RESPONSIBLE FOR CALLING 815–724–4230 TO SCHEDULE AN APPOINTMENT WITH THE CITY WATER DEPARTMENT. APPOINTMENTS ARE AVAILABLE ON TUESDAYS AND THURSDAYS.

17. SUCCESSFULLY TEST, DISINFECT, AND FLUSH WATER MAIN, AND OBTAIN ACCEPTANCE OF THE WATER MAIN BY THE CITY OF JOLIET, PRIOR TO MAKING WATER SERVICE CONNECTIONS. FLUSH PIPELINES TO OBTAIN A VELOCITY OF 2.5 FT/S PER AWWA STANDARD C651.

18. 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.

19. 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.

20. 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.

21. 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.

22. PAVEMENT RESTORATION WILL BE MEASURED IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. ALL AREAS DISTURBED WILL BE REPLACED, BUT THE MAXIMUM ALLOWABLE WIDTHS USED FOR PAY QUANTITY CALCULATIONS WILL BE 6 FEET CENTERED ON THE PIPE. IF THE CONTRACTOR RELOCATES THE TRENCH AWAY FROM THE CURB AND GUTTER, THE PAVEMENT PATCH WILL EXTEND FROM THE SAWCUT IN THE EXISTING PAVEMENT TO THE FACE OF THE GUTTER AND THE MAXIMUM ALLOWABLE WIDTH OF 6 FEET WILL BE USED FOR PAY QUANTITY CALCULATIONS.

- INGALLS AVENUE SHALL HAVE 10.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE
- WYOMING AVENUE, COLORADO AVENUE, CONNECTICUT AVENUE, OREGON AVENUE, MASSACHUSETTS AVENUE, TEXAS AVENUE, AND PENNSYLVANIA AVENUE SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.

23. IT SHALL BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE EXCLUSIVE DUTY AND RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION. IT SHALL EXCLUSIVELY BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO INVESTIGATE AND ASCERTAIN THE CURRENT PHYSICAL STATE AND OPERATIONAL STATUS OF THE CITY'S WATER SUPPLY SYSTEM AND THE CITY'S SANITARY SEWER SYSTEM, INCLUDING WHETHER A WATER MAIN OR OTHER VESSEL IS OPERATIONAL, CONTAINS WATER, IS PRESSURIZED, OR IS OTHERWISE SAFE TO ALTER. ANY INFORMATION PROVIDED BY THE CITY, OR ITS EMPLOYEES AND CONSULTANTS, REGARDING THE STATE OF ITS WATER SUPPLY AND SANITARY SEWER SYSTEMS IS PROVIDED AS A COURTESY TO THE CONTRACTOR BUT IS NOT WARRANTED TO BE TRUE AND MAY NOT BE RELIED ON BY THE CONTRACTOR IN SATISFACTION OF, OR TO DIMINISH, ITS EXCLUSIVE DUTY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS AND ITS EXCLUSIVE RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION.

24. WATER SERVICE INSTALLATION WORK MUST BEGIN WITHIN 5 DAYS OF SATISFACTORY SAMPLE RESULTS AND IEPA APPROVAL. WATER SERVICE INSTALLATION WORK MUST BE COMPLETED WITHIN 15 WORKING DAYS AFTER RECEIVING THE OPERATING PERMIT APPROVAL FROM IEPA, INCLUDING PARTIAL APPROVALS. FINAL PAVEMENT RESTORATION MUST BE COMPLETED WITHIN 21 DAYS AFTER THE LAST COMPLETED WATER SERVICE CONNECTION ON ANY ONE STREET OR MOVING THE EXCAVATION CREW AND EQUIPMENT TO ANOTHER STREET. THE CONTRACTOR HAS THE OPTION TO INSTALL TEMPORARY PAVEMENT AT NO ADDITIONAL COST TO THE CITY WITHIN 7 CALENDAR DAYS. THE CITY CAN STOP OPERATIONS UNTIL TEMPORARY PAVEMENT IS PLACED OR PERMANENT PAVEMENT RESTORATION IS COMPLETE.

25. CONTRACTOR TO DISTRIBUTE DOOR HANGERS AT VARIOUS MILESTONES DURING THE PROJECT. DOOR HANGERS WILL BE PROVIDED BY THE OWNER. DOOR HANGERS MUST BE DISTRIBUTED AT THE FOLLOWING MILESTONES:

- ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 48 HOURS IN ADVANCE OF WATER MAIN SHUTDOWNS TO ALL AFFECTED STRUCTURES (THE SAME STRUCTURE MAY RECEIVE MORE THAN ONE DOOR HANGER).
- 48 HOURS IN ADVANCE OF WATER SERVICE LINE REPLACEMENTS.
- ONE WEEK PRIOR TO RESTORATION ACTIVITIES ON ANY STREET.

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

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	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 211917

DESIGNED – PMK	
DRAWN – JJS	
CHECKED – LMS	
DATE – 10/27/2022	

TOTAL SHEETS	SHEET NO.
30	4

P:\JOLTC\211917–2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS–PLANS\211917–COVER_GEN_DETS–KERWIN TERRACE.DWG GEN NOTES
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NOTE:
WATER SERVICES: (0) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

(1) 12" LINE STOP

(1) 8" LINE STOP

(1) 6" LINE STOP

56 L.F. OF 8" RJT WATER MAIN,
(1) 12" X 8" TEE,
(1) 8" VALVE IN BOX,
(2) 8" 45° BENDS,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE

ABANDON EXISTING 12" WATER MAIN

130 L.F. OF 12" RJT WATER MAIN,
(1) 12" NON-PRESSURE CONNECTION,
(1) 12" SLEEVE,
(2) 12" 45° BENDS,
(1) 12" VALVE IN 5' DIA. VAULT

ABANDON EXISTING VALVE VAULT

65 L.F. OF 12" WATER MAIN

TREE ROOT PRUNING

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING VALVE VAULT

84 L.F. OF 12" RJT WATER MAIN,
(1) 12" X 8" TEE,
(1) 12" VALVE IN 5' DIA. VAULT

94 L.F. OF 12" WATER MAIN

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

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

32 L.F. OF 6" RJT WATER MAIN,
(1) 8" X 6" REDUCER,
(1) 6" 45° BEND,
(1) 6" NON-PRESSURE CONNECTION,
(1) 6" SLEEVE

ABANDON EXISTING 8" WATER MAIN

68 L.F. OF 12" RJT WATER MAIN,
(2) 12" 45° BENDS

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

SEE SHEET 6

MATCH LINE STA. 15+50

LARKIN AVENUE

WINTHROP AVENUE

INGALLS AVENUE

EXISTING PROFILE OVER PROPOSED WATER MAIN

PROPOSED 12" WATER MAIN

ABANDON EXISTING 8" WATER MAIN

ABANDON EXISTING 12" WATER MAIN

Ex. 12" Storm Sewer

Ex. 4" Storm Sewer

Ex. 12" Water Main

Ex. 8" Water Main

Ex. 15" Storm Sewer

Ex. 18" Storm Sewer

18" MIN

18" MIN.

5' MIN (TYP)

662.85 662.71 662.58 662.43 662.64 662.86 663.06 663.34 663.55 663.55 663.32

10+00 10+50 11+00 11+50 12+00 12+50 13+00 13+50 14+00 14+50 15+00 15+50

670 665 660 655 650 645 640 635 630

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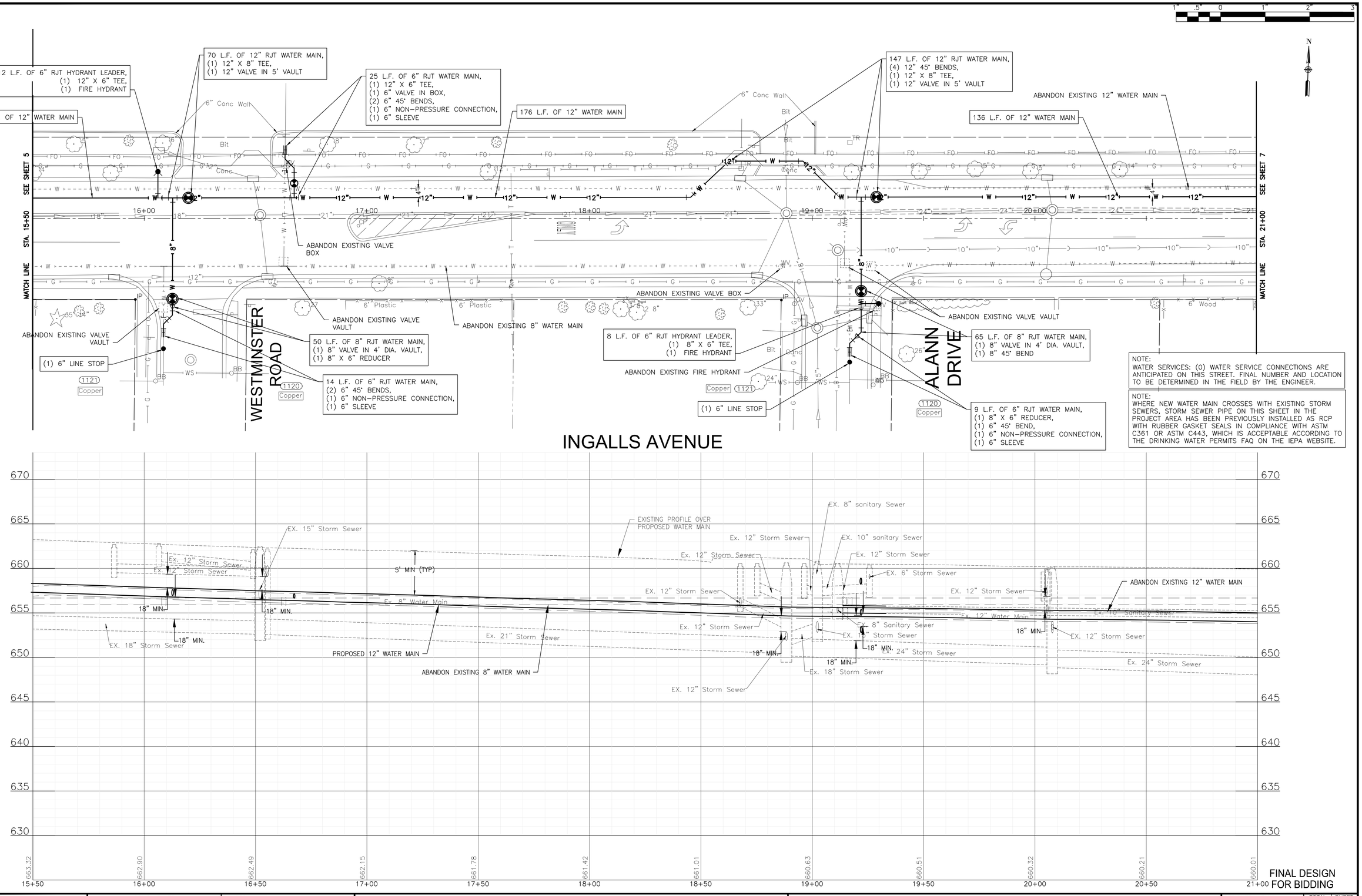
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	REVISED –
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	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

INGALLS AVENUE STA. 10+00 TO STA. 15+50 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS			
CHECKED – LMS		30	5
DATE – 10/27/2022			



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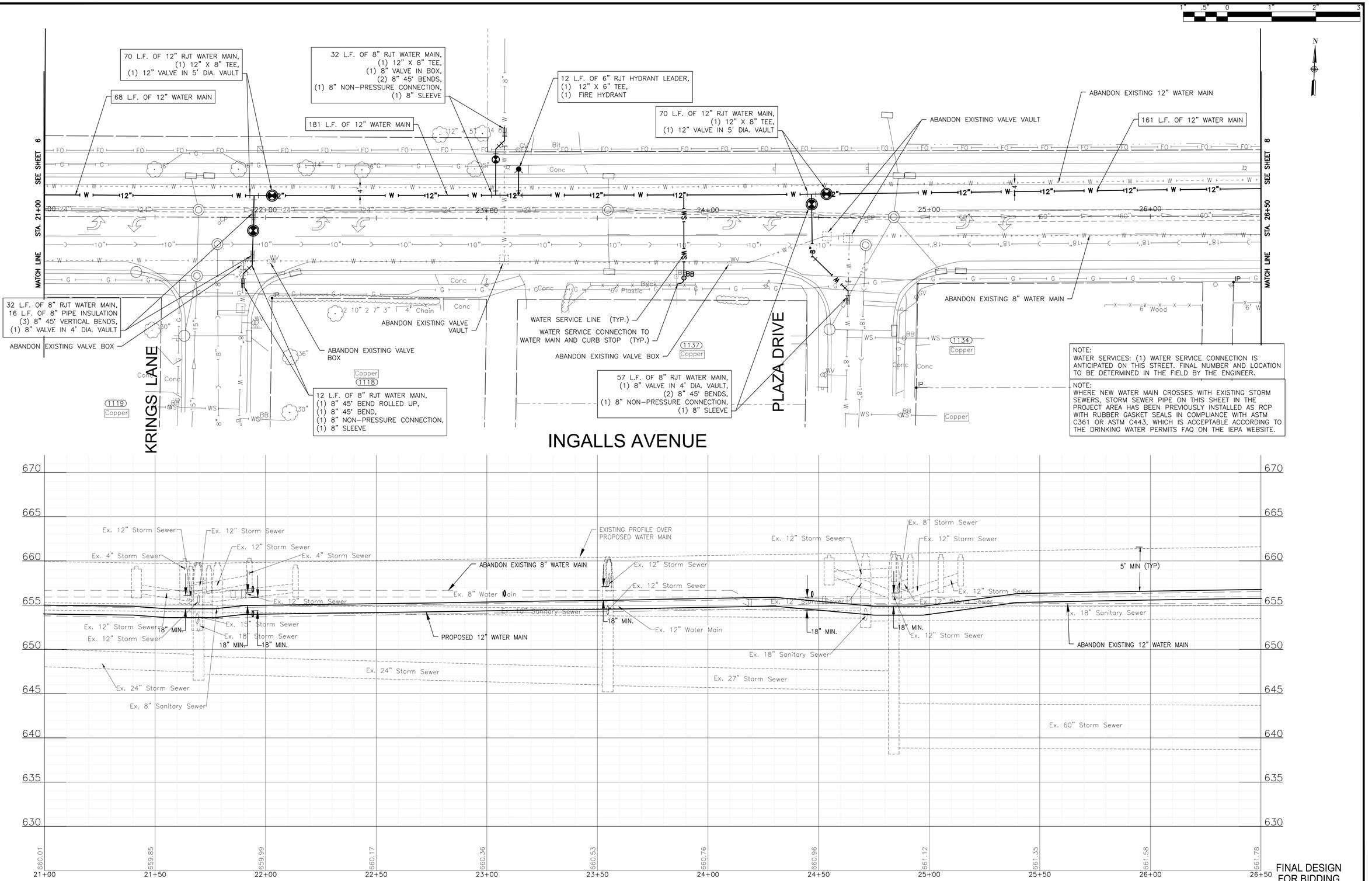
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CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

INGALLS AVENUE STA. 15+50 TO STA. 21+00 PLAN AND PROFILE

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

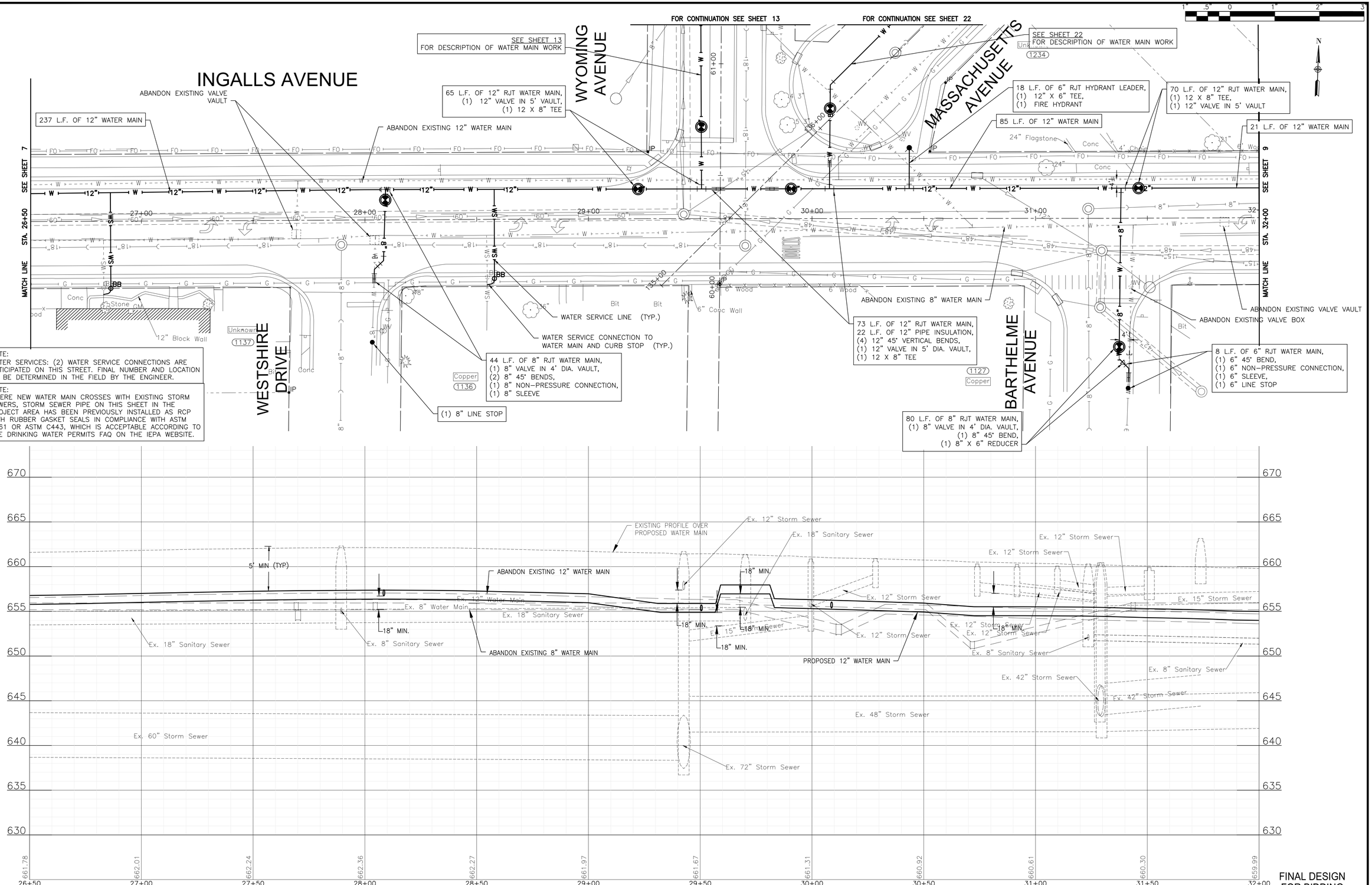
		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS		30	6
CHECKED – LMS			
DATE – 10/27/2022			



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BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123	INGALLS AVENUE STA. 21+00 TO STA. 26+50 PLAN AND PROFILE	DESIGNED – PMK	TOTAL SHEETS: 30
		REVISED –			DRAWN – JJS	SHEET NO.: 7
		REVISED –			CHECKED – LMS	
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DATE – 10/27/2022	

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CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

INGALLS AVENUE STA. 26+50 TO STA. 32+00 PLAN AND PROFILE

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

DESIGNED – PMK	
DRAWN – JJS	
CHECKED – LMS	
DATE – 10/27/2022	

TOTAL SHEETS	SHEET NO.
30	8

FOR CONTINUATION SEE SHEET 20

SEE SHEET 20
FOR DESCRIPTION OF WATER MAIN WORK

9 L.F. OF 6" RJT HYDRANT LEADER,
(1) 12" X 6" TEE,
(1) FIRE HYDRANT

40 L.F. OF 12" WATER MAIN

WATER SERVICE LINE (TYP.)

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

38 L.F. OF 12" RJT WATER MAIN,
(2) 12" 45° BENDS

11 L.F. OF 6" RJT HYDRANT LEADER,
(1) 12" X 6" TEE,
(1) FIRE HYDRANT

203 L.F. OF 12" WATER MAIN

ABANDON EXISTING VALVE VAULT

ABANDON EXISTING 12" WATER MAIN

43 L.F. OF 12" RJT WATER MAIN,
(2) 12" 45° BENDS

151 L.F. OF 12" WATER MAIN

ABANDON EXISTING 8" WATER MAIN

ABANDON EXISTING VALVE VAULT

ABANDON EXISTING FIRE HYDRANT

46 L.F. OF 8" RJT WATER MAIN,
(1) 12" X 8" REDUCER,
(1) 8" 45° BEND,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE

83 L.F. OF 12" RJT WATER MAIN,
(1) 12" X 8" TEE,
(1) 12" VALVE IN 5' DIA. VAULT

72 L.F. OF 12" RJT WATER MAIN,
(1) 12" TEE,
(1) 12" VALVE IN 5' DIA. VAULT,
(1) 12" 45° BEND

OREGON AVENUE

OREGON AVENUE

INGALLS AVENUE

SEE SHEET 8

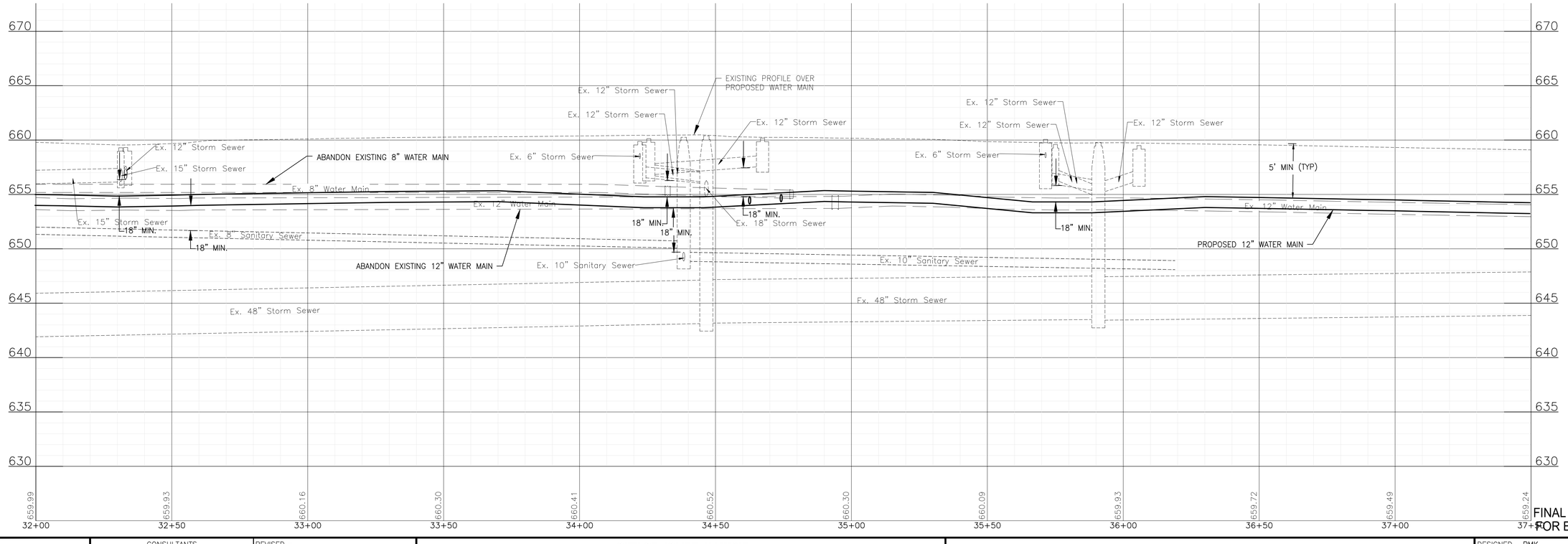
SEE SHEET 10

MATCH LINE STA. 32+00

MATCH LINE STA. 37+50

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

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



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123
		REVISED –	
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		REVISED –	

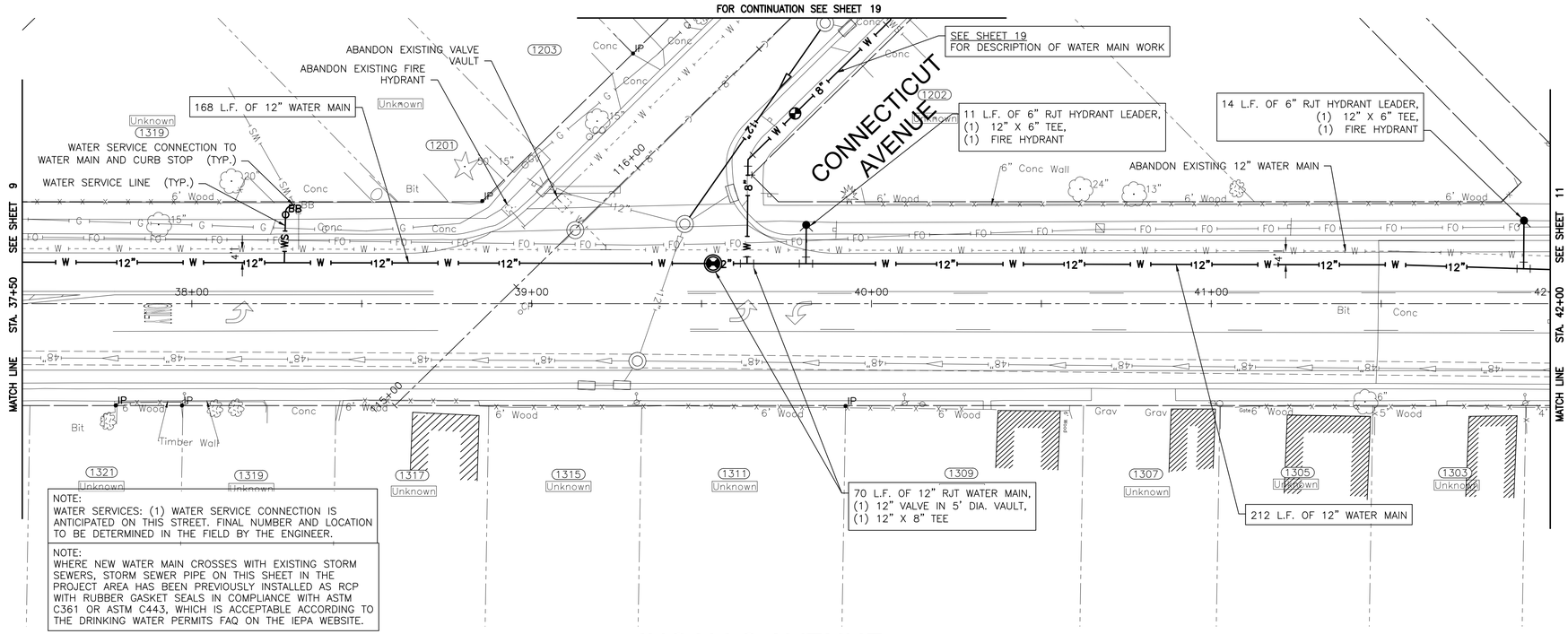
INGALLS AVENUE STA. 32+00 TO STA. 37+50 PLAN AND PROFILE

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

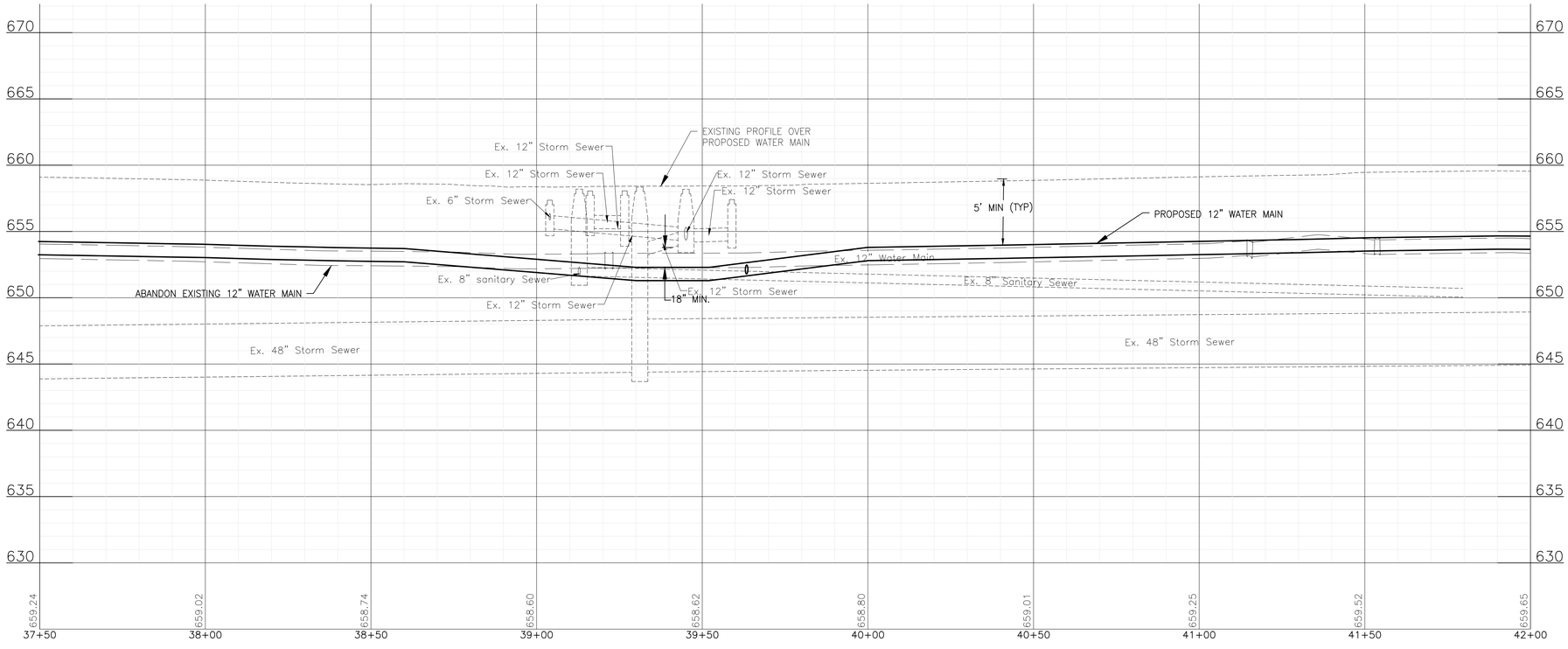
DESIGNED – PMK
DRAWN – JJS
CHECKED – LMS
DATE – 10/27/2022

TOTAL SHEETS: 30 | SHEET NO.: 9

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INGALLS AVENUE



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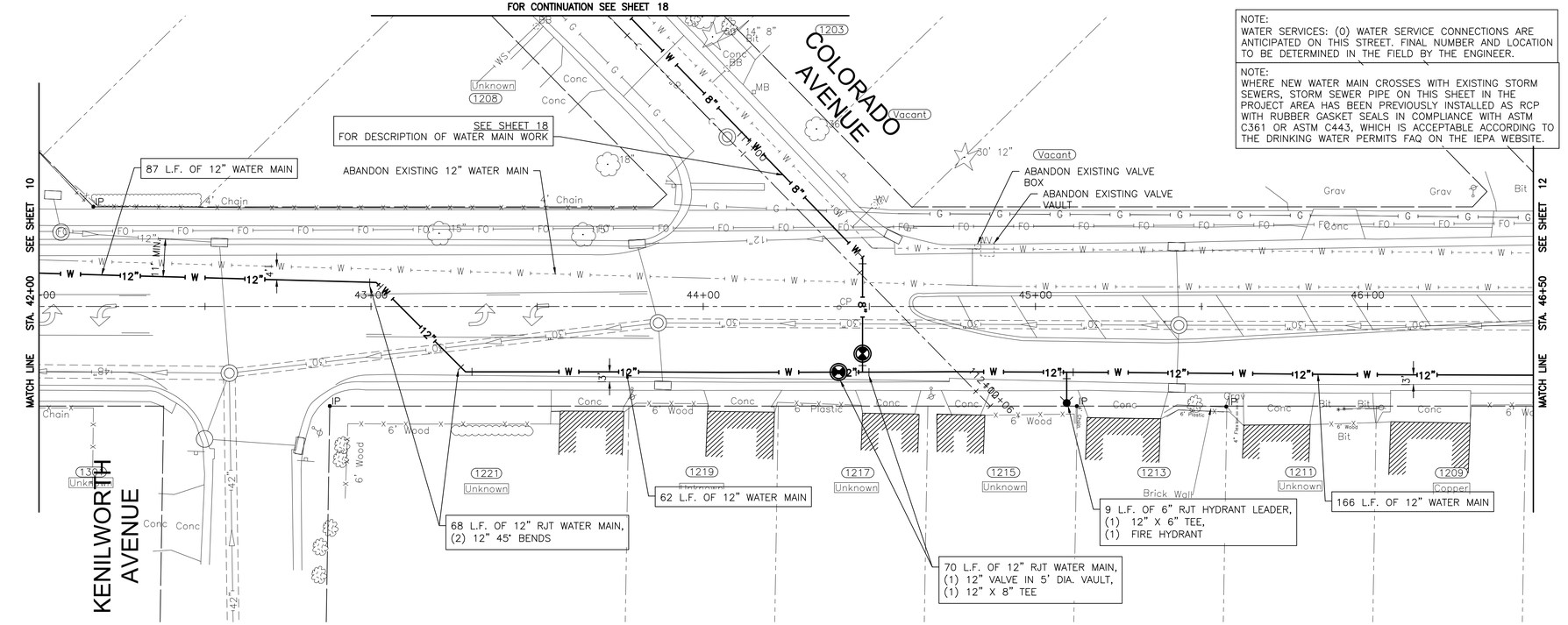
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123
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INGALLS AVENUE STA. 37+50 TO STA. 42+00 PLAN AND PROFILE

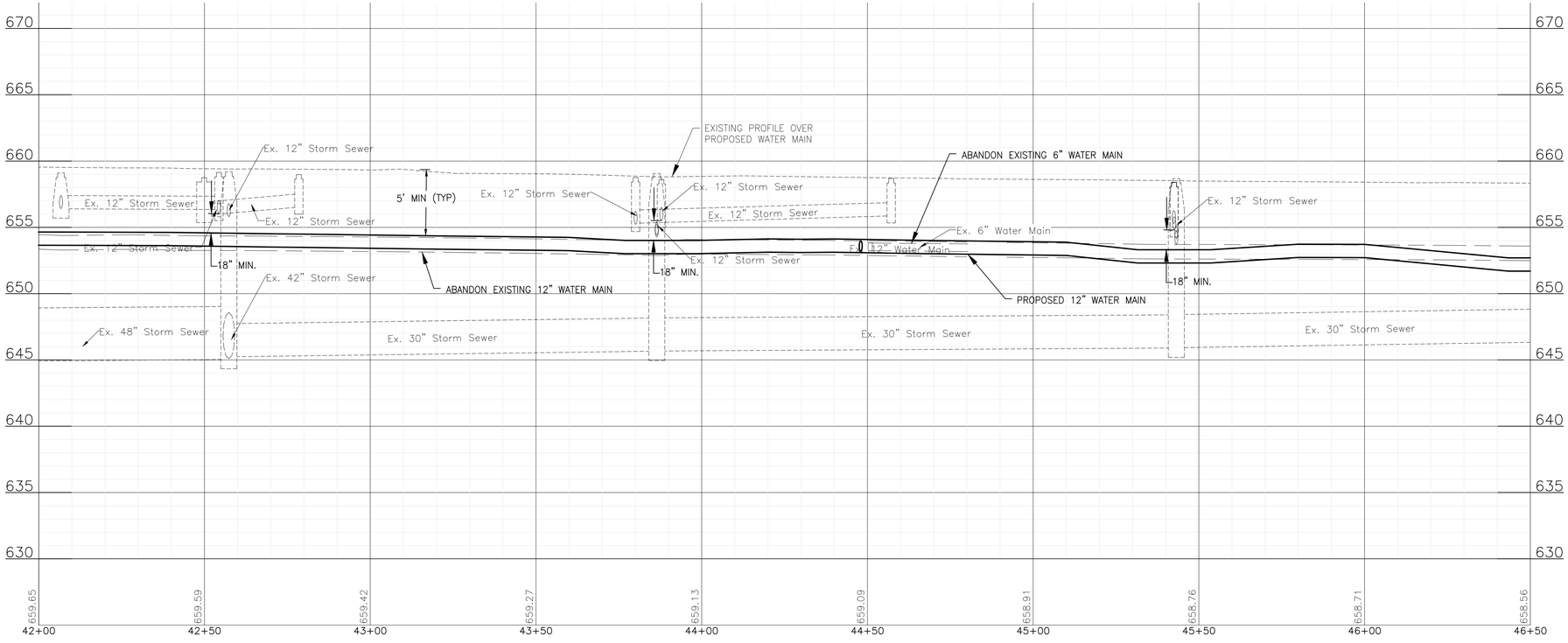
SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS			
CHECKED – LMS		30	10
DATE – 10/27/2022			

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INGALLS AVENUE



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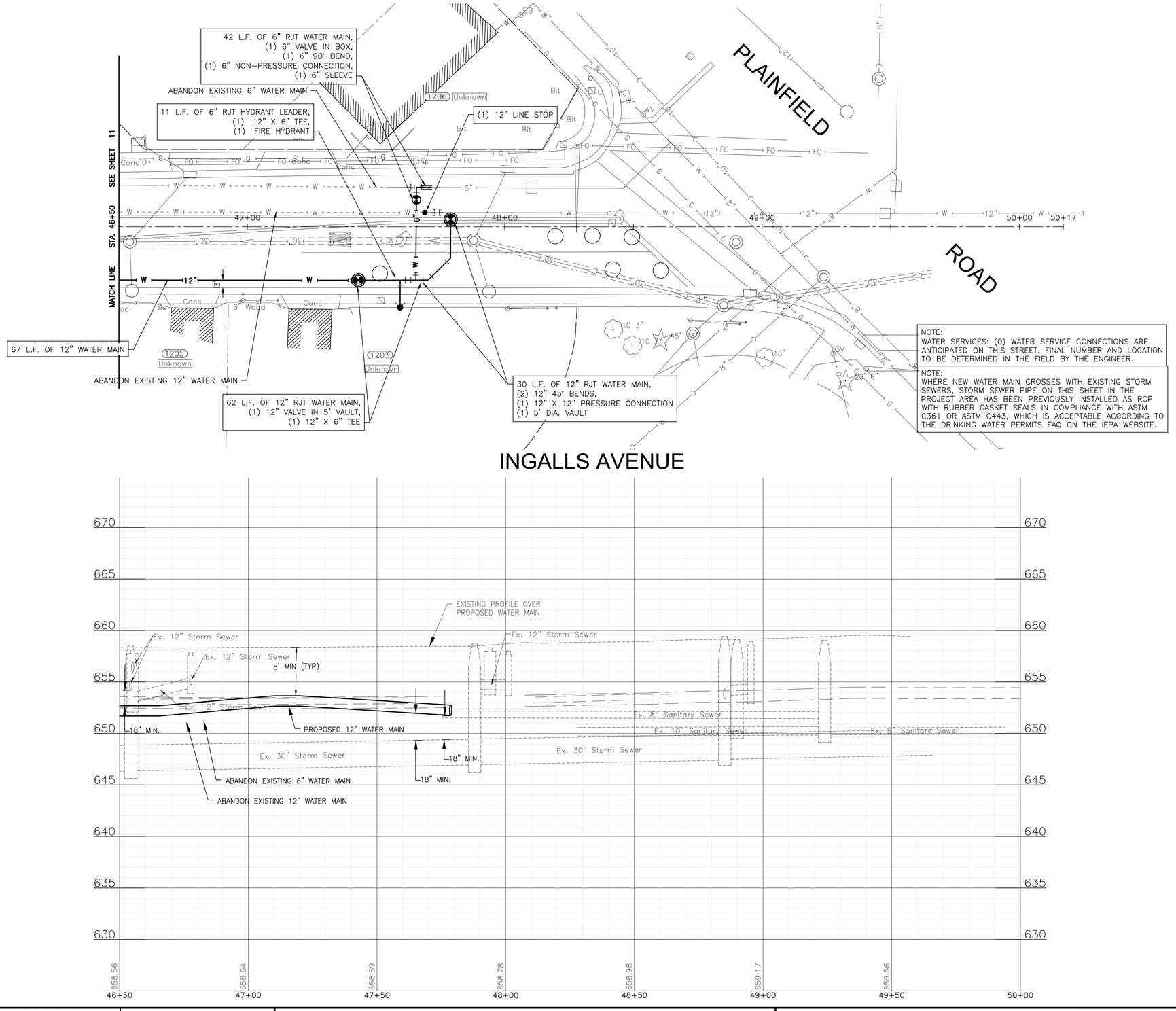
CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

INGALLS AVENUE STA. 42+00 TO STA. 46+50 PLAN AND PROFILE

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

DESIGNED –	PMK
DRAWN –	JJS
CHECKED –	LMS
DATE –	10/27/2022

TOTAL SHEETS	SHEET NO.
30	11

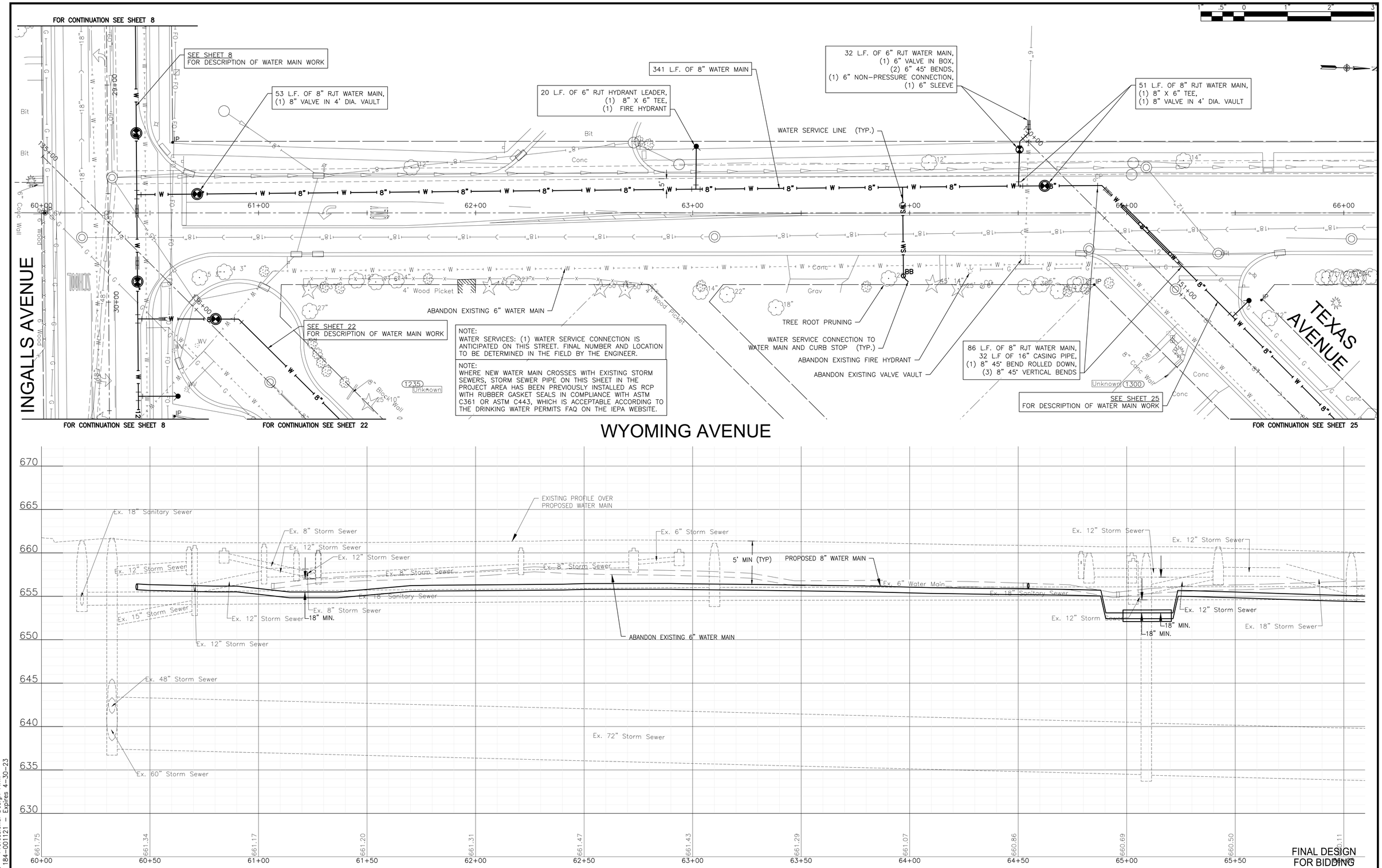


FINAL DESIGN
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BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123	INGALLS AVENUE STA. 46+50 TO STA. 50+00 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917

DESIGNED – PMK	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS	30	12	
CHECKED – LMS			
DATE – 10/27/2022			

P:\JOLIT\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-KERWIN TERRACE-DESIGN.DWG INGALLS AVENUE STA. 46+50 TO STA. 50+00 PLAN AND PROFILE
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		REVISED –	
		REVISED –	
		REVISED –	

WYOMING AVENUE STA. 60+00 TO STA. 65+50 PLAN AND PROFILE

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

DESIGNED – PMK
DRAWN – JJS
CHECKED – LMS
DATE – 10/27/2022

TOTAL SHEETS: 30 | SHEET NO.: 13

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-KERWIN TERRACE-DESIGN.DWG WYOMING AVENUE STA. 60+00 TO STA. 65+50 PLAN AND PROFILE
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33 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA. VAULT,
(2) 8" 45° BENDS,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE

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

214 L.F. OF 8" WATER MAIN

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

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

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

75 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA. VAULT,
(2) 8" 45° BENDS,
(1) 8" X 8" PRESSURE CONNECTION,
(1) 5' VAULT

ABANDON EXISTING VALVE BOX

WATER SERVICE LINE (TYP.)

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

ABANDON EXISTING 8" WATER MAIN

TREE ROOT PRUNING

(1) 8" LINE STOP

SEE SHEET 15
FOR DESCRIPTION OF WATER MAIN WORK

FOR CONTINUATION SEE SHEET 15

COLORADO AVENUE

PLAINFIELD ROAD

WYOMING AVENUE

EXISTING PROFILE OVER PROPOSED WATER MAIN

PROPOSED 8" WATER MAIN

ABANDON EXISTING 8" WATER MAIN

18" MIN.

Ex. 12" Storm Sewer
Ex. 10" Sanitary Sewer
Ex. 8" Sanitary Sewer
Ex. 42" Storm Sewer
Ex. 72" Storm Sewer
Ex. 8" Water Main

660 655 650 645 640 635 630 625 620

648.53 648.44 648.23 648.49 648.83 649.34 649.83 650.28 650.85 651.25 651.35 651.22

74+66 75+00 75+50 76+00 76+50 77+00 77+50 78+00 78+50 79+00 79+50 80+00

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	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

WYOMING AVENUE STA. 74+50 TO STA. 81+00 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK		30	14
DRAWN – JJS			
CHECKED – LMS			
DATE – 10/27/2022			

FOR CONTINUATION SEE SHEET 14

SEE SHEET 14
FOR DESCRIPTION OF WATER MAIN WORK

116 L.F. OF 8" RJT WATER MAIN,
(2) 8" TEES,
(2) 8" 11.25° BENDS,
(1) 8" VALVE IN 4' DIA. VAULT

TREE ROOT PRUNING

299 L.F. OF 8" WATER MAIN

WATER SERVICE LINE (TYP.)

ABANDON EXISTING 6" WATER MAIN

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

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

ABANDON EXISTING FIRE HYDRANT

42 L.F. OF 8" WATER MAIN

TREE ROOT PRUNING

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

ABANDON EXISTING FIRE HYDRANT

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

TREE ROOT PRUNING

74 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA. VAULT,
(1) 8" 45° BEND,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE,
(1) 8" LINE STOP

SEE SHEET 27
FOR DESCRIPTION OF WATER MAIN WORK

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

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

WYOMING AVENUE

COLORADO AVENUE

PENNSYLVANIA AVENUE

MATCH LINE STA. 95+50 SEE SHEET 16

FOR CONTINUATION SEE SHEET 27

EXISTING PROFILE OVER PROPOSED WATER MAIN

PROPOSED 8" WATER MAIN

ABANDON EXISTING 6" WATER MAIN

5' MIN (TYP)

18" MIN.

Ex. 12" Storm Sewer
Ex. 15" Storm Sewer
Ex. 4" Storm Sewer
Ex. 8" sanitary Sewer
Ex. 10" sanitary Sewer
Ex. 10" Sanitary Sewer
Ex. 8" Water Main
Ex. 42" Storm Sewer
Ex. 36" Storm Sewer
Ex. 72" Storm Sewer

648.20 648.54 649.19 649.90 650.67 651.45 652.37 653.48 654.68 655.37 656.57

90+00 90+50 91+00 91+50 92+00 92+50 93+00 93+50 94+00 94+50 95+00

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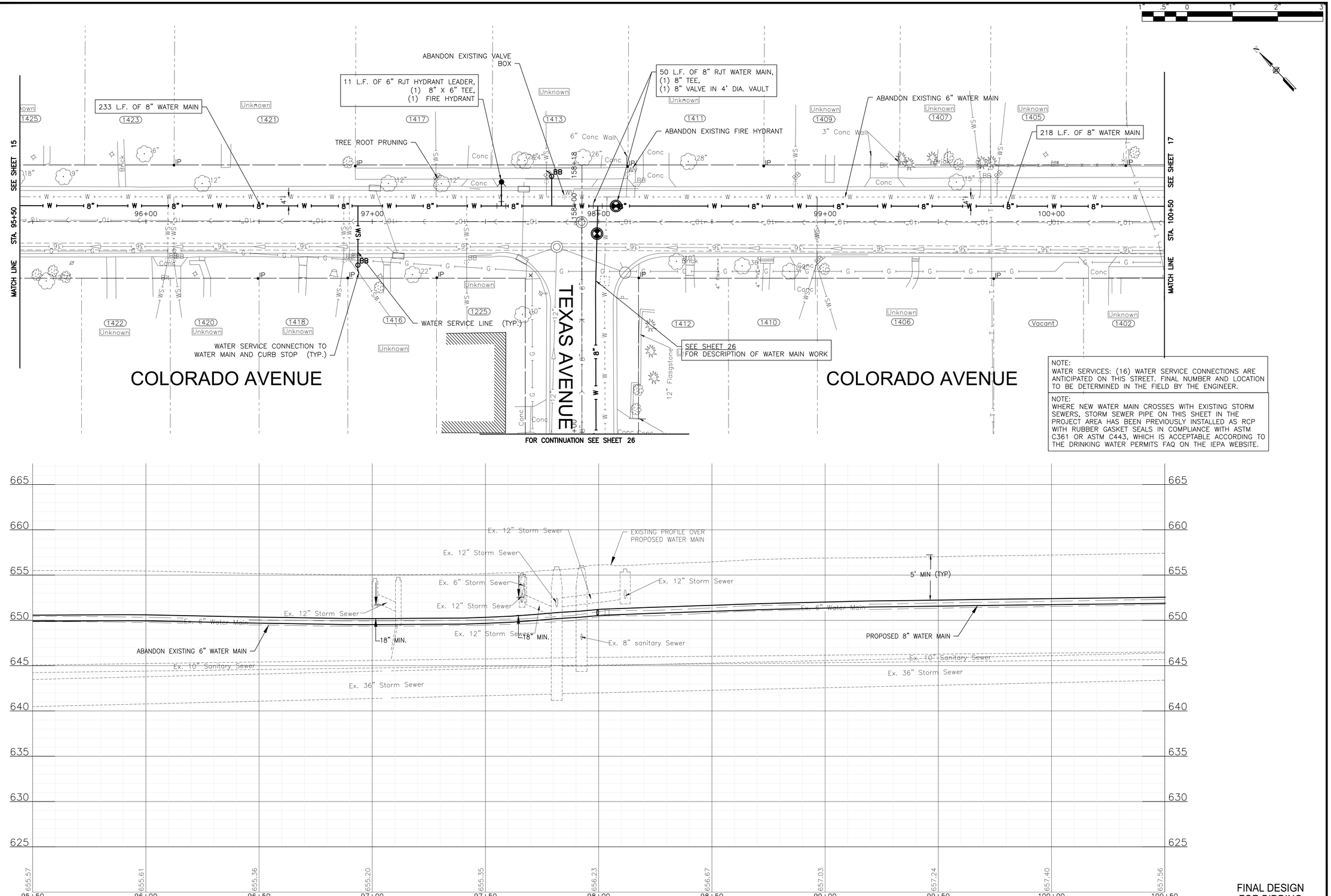
CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

COLORADO AVENUE STA. 90+00 TO STA. 95+50 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS		30	15
CHECKED – LMS			
DATE – 10/27/2022			



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

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

FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123	COLORADO AVENUE STA. 95+50 TO STA. 100+50 PLAN AND PROFILE	DESIGNED – PMK	TOTAL SHEETS: 30 / SHEET NO.: 16
		REVISED –			DRAWN – JJS	
		REVISED –			CHECKED – LMS	
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DATE – 10/27/2022	

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75 L.F. OF 8" RJT WATER MAIN,
26 L.F. OF 8" PIPE INSULATION,,
(4) 8" 45° VERTICAL BENDS

ABANDON EXISTING FIRE HYDRANT

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

243 L.F. OF 8" WATER MAIN

WATER SERVICE LINE (TYP.)

ABANDON EXISTING VALVE VAULT

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

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING 6" WATER MAIN

127 L.F. OF 8" WATER MAIN

TREE ROOT PRUNING

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

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

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

SEE SHEET 24
FOR DESCRIPTION OF WATER MAIN WORK

SEE SHEET 21
FOR DESCRIPTION OF WATER MAIN WORK

NOTE:
WATER SERVICES: (17) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

MASSACHUSETTS AVENUE

OREGON AVENUE

SEE SHEET 16

SEE SHEET 18

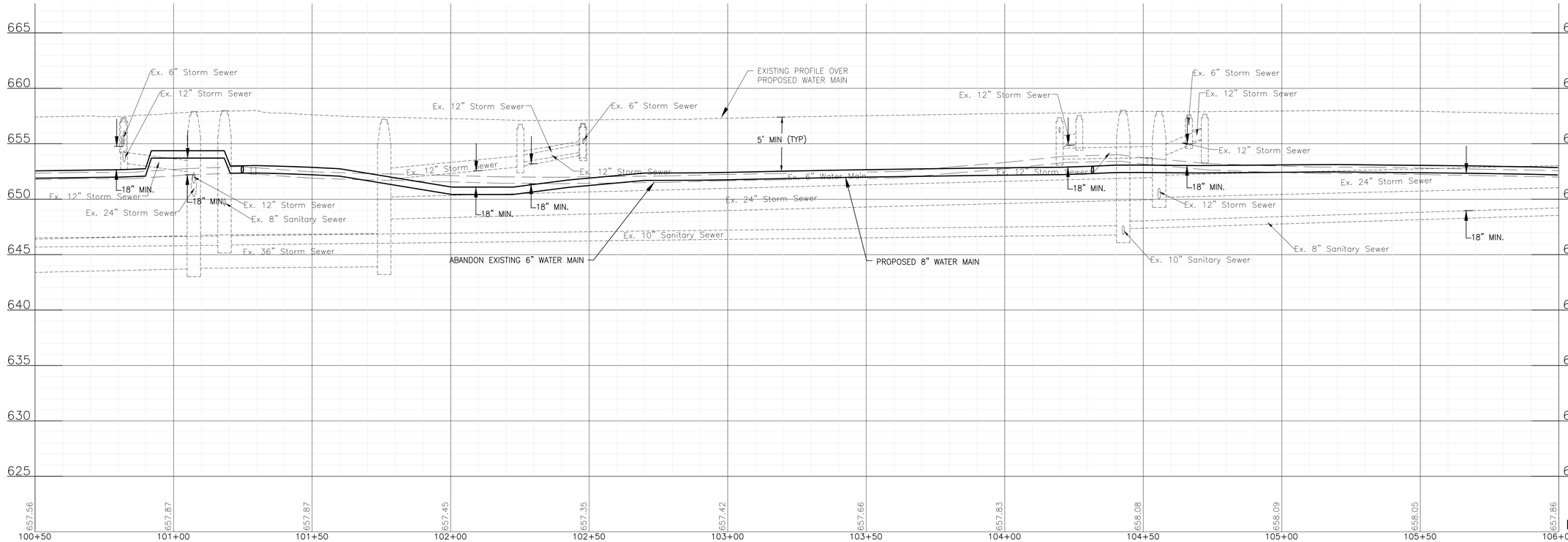
MATCH LINE STA. 100+50

MATCH LINE STA. 106+00

FOR CONTINUATION SEE SHEET 24

FOR CONTINUATION SEE SHEET 21

COLORADO AVENUE



FINAL DESIGN
FOR BIDDING

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	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

COLORADO AVENUE STA. 100+50 TO STA. 106+00 PLAN AND PROFILE

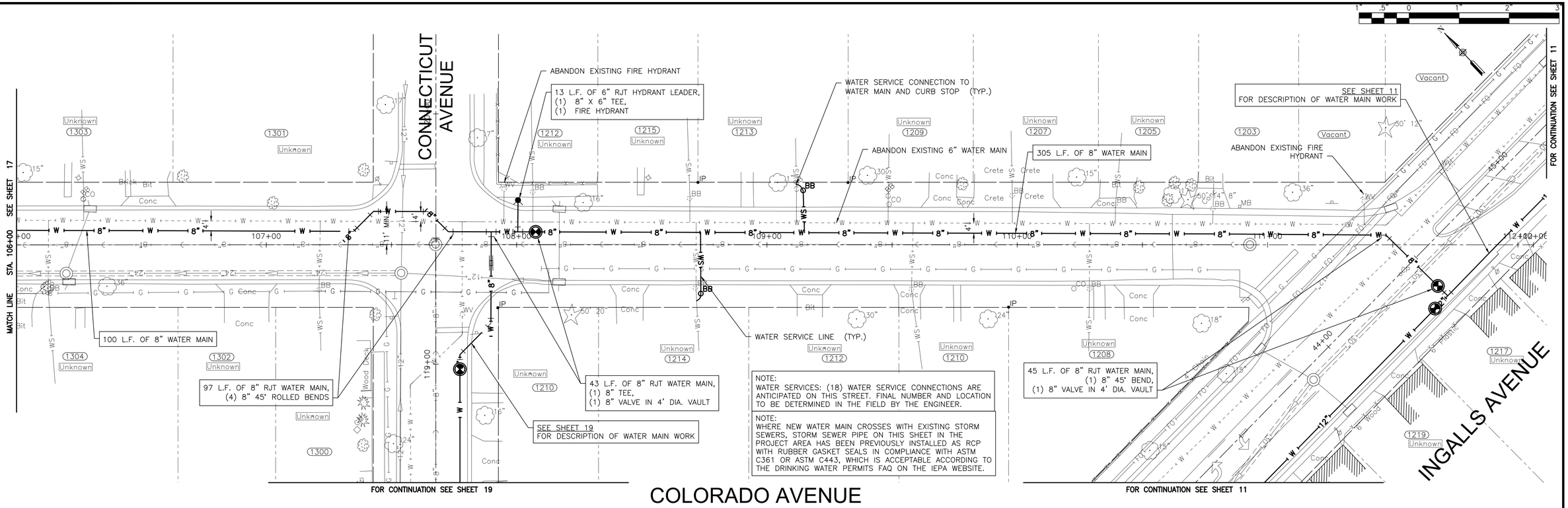
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 211917

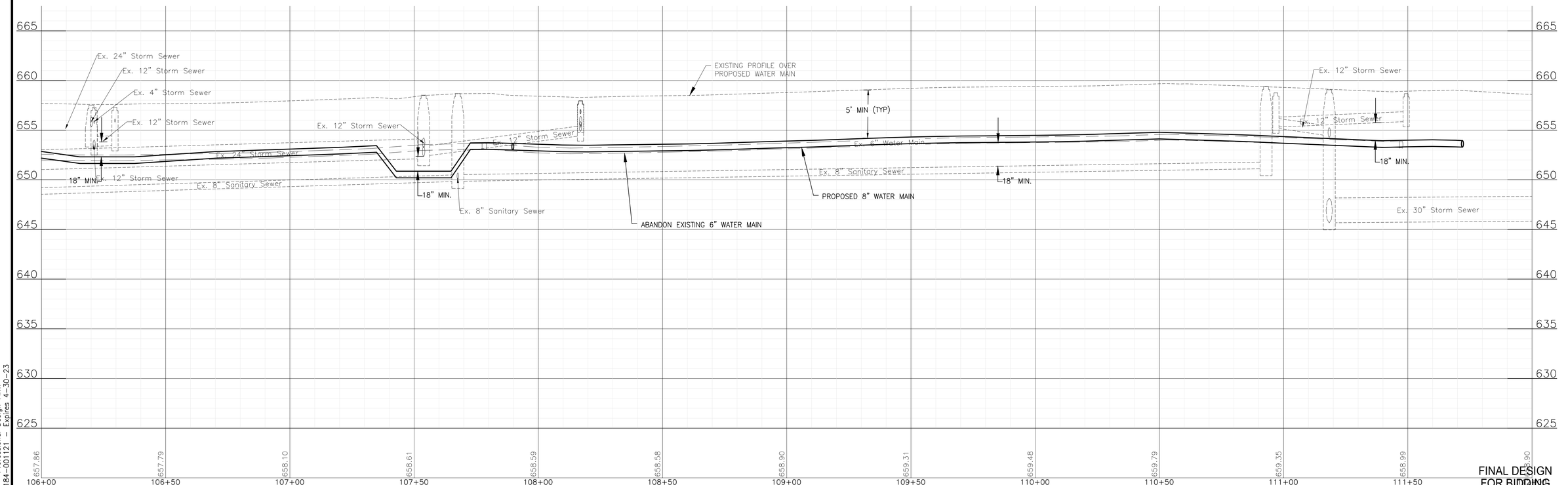
DESIGNED – PMK	
DRAWN – JJS	
CHECKED – LMS	
DATE – 10/27/2022	

TOTAL SHEETS	SHEET NO.
30	17

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DESIGNED – PMK	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	30	18
CHECKED – LMS		
DATE – 10/27/2022		

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FOR CONTINUATION SEE SHEET 9

FOR CONTINUATION SEE SHEET 17

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

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

REMOVE AND REPLACE 67 L.F. OF 12" STORM SEWER WITH WMQ PIPE

ABANDON EXISTING 6" WATER MAIN

WATER SERVICE LINE (TYP.)

ABANDON EXISTING VALVE BOX

INGALLS AVENUE

COLORADO AVENUE

CONNECTICUT AVENUE

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

169 L.F. OF 8" WATER MAIN

115 L.F. OF 8" RJT WATER MAIN, (3) 8" 45° BENDS, (1) 8" VALVE IN BOX

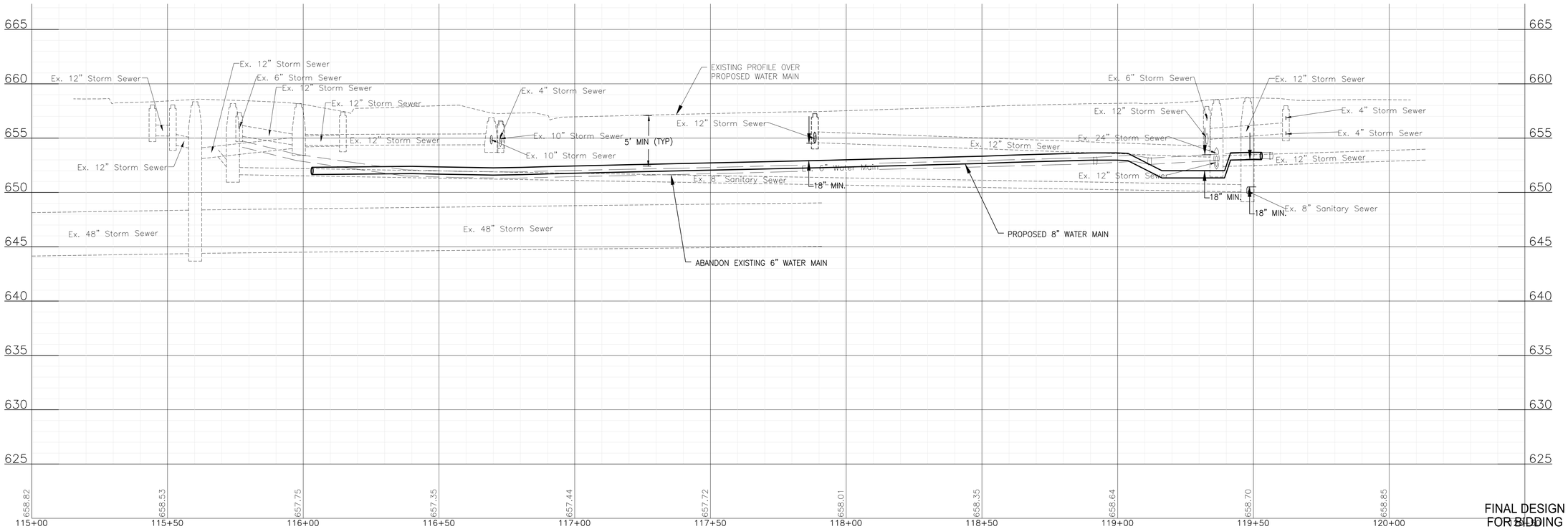
85 L.F. OF 8" RJT WATER MAIN, (1) 8" VALVE IN 4' DIA. VAULT, (1) 8" 45° BEND ROLLED DOWN, (1) 8" 45° BEND ROLLED UP, (2) 8" 45° VERTICAL BENDS

SEE SHEET 10
FOR DESCRIPTION OF WATER MAIN WORK

SEE SHEET 18
FOR DESCRIPTION OF WATER MAIN WORK

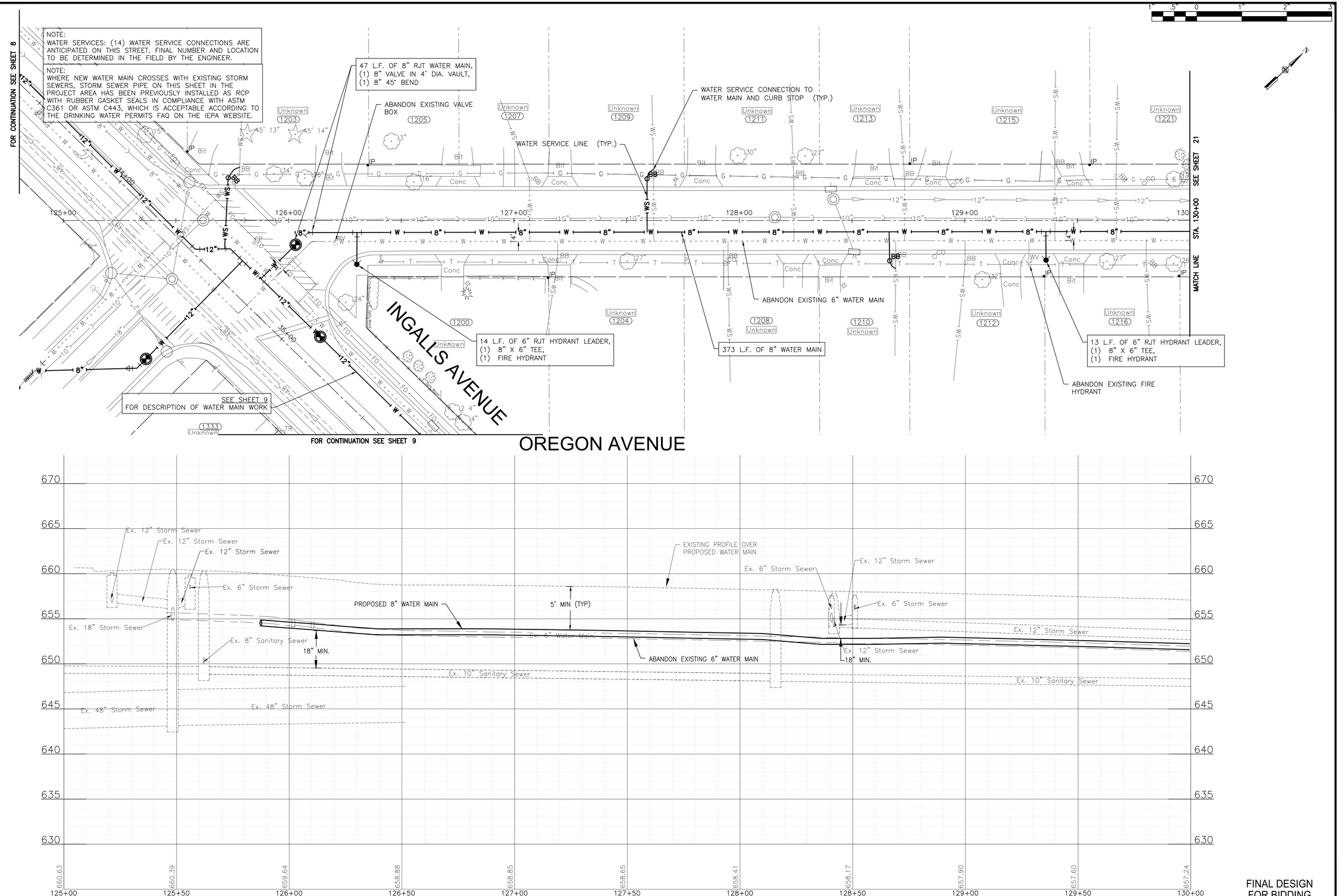
FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 18



FINAL DESIGN
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		REVISED –			DRAWN – JJS	30	19
		REVISED –			CHECKED – LMS		
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DATE – 10/27/2022		

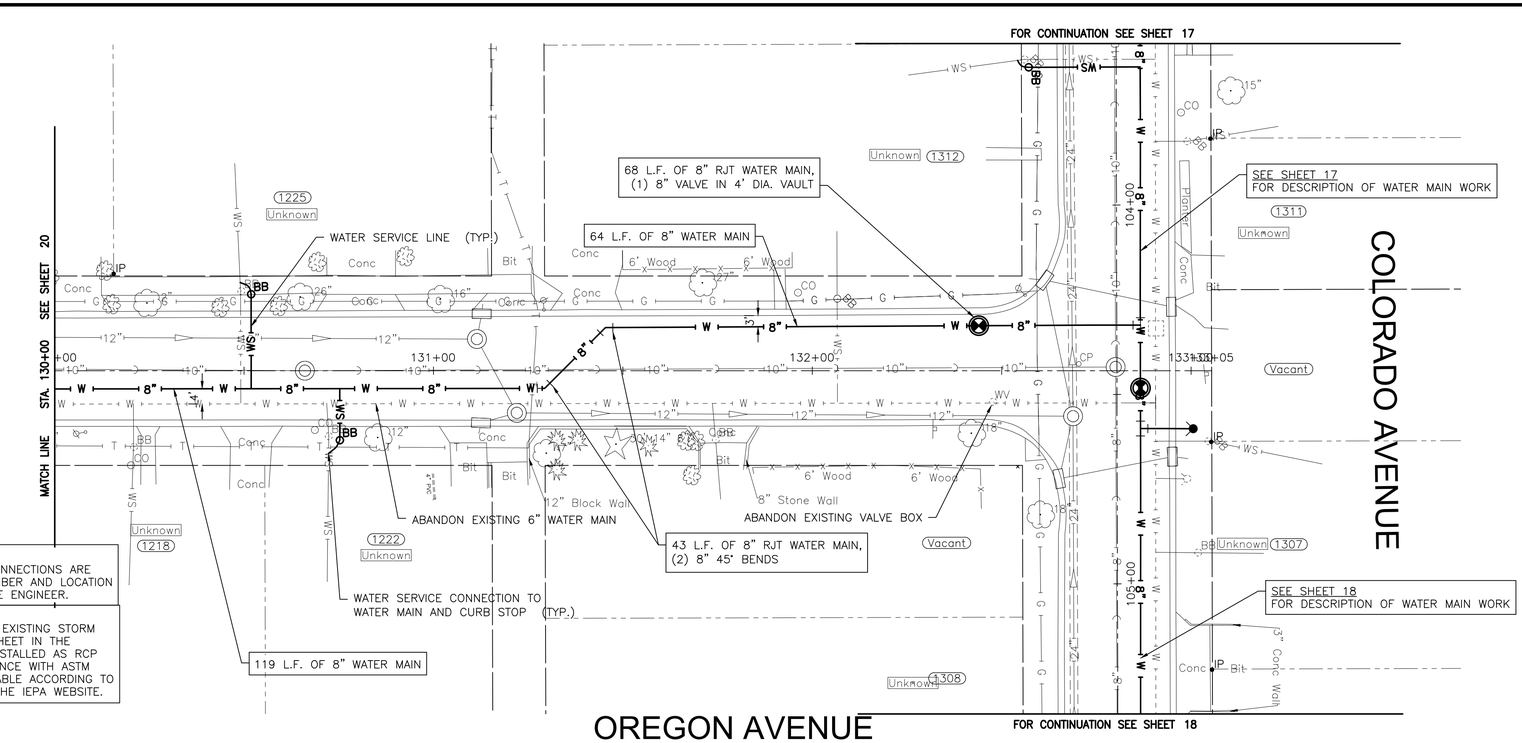


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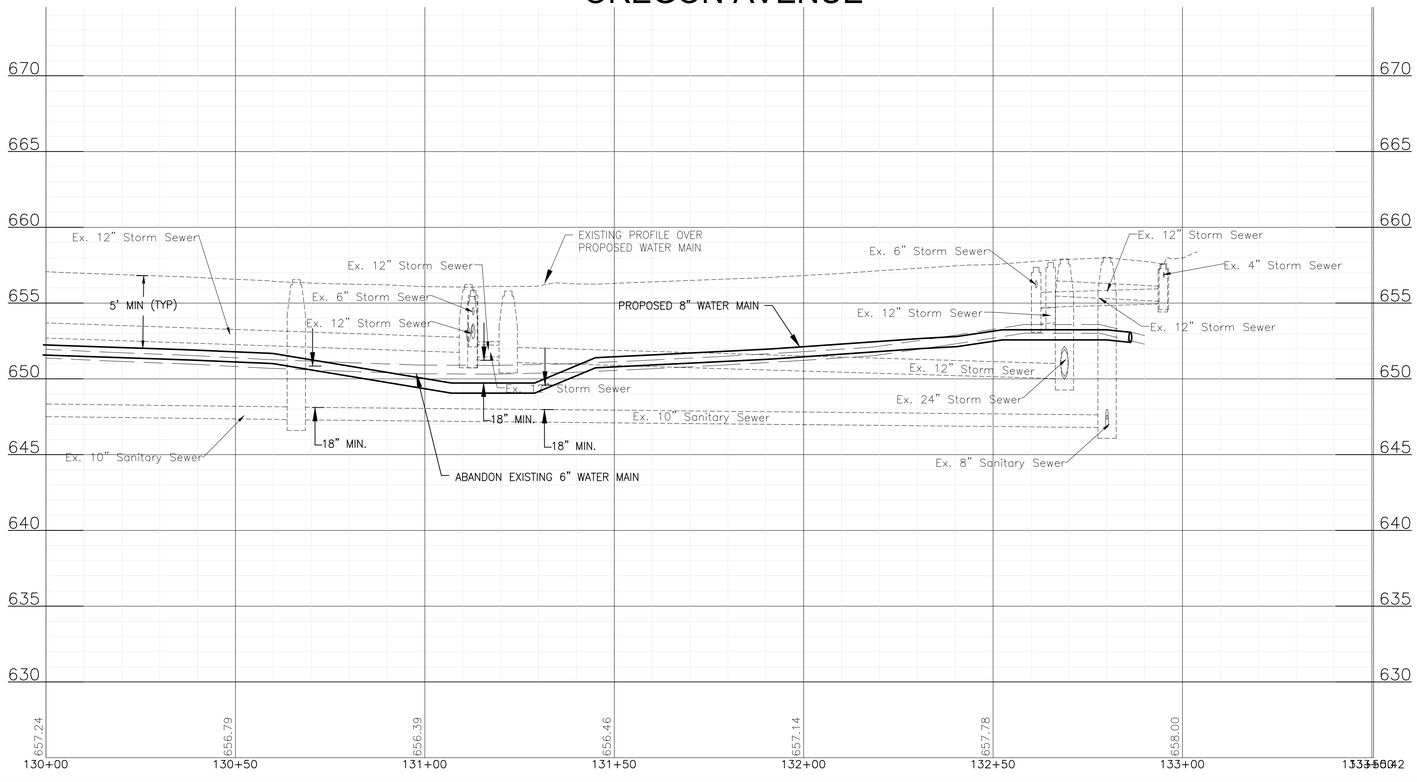
DESIGNED – PMK	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	30	20
CHECKED – LMS		
DATE – 10/27/2022		

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

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



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FOR BIDDING

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	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

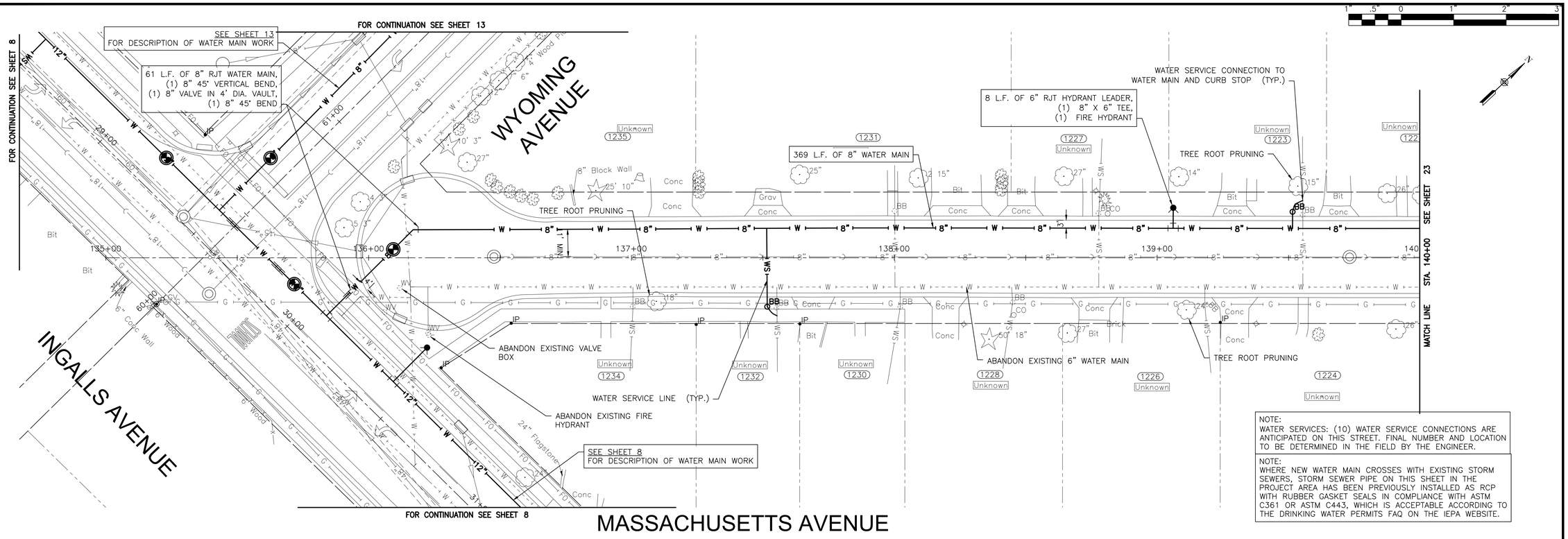
CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

OREGON AVENUE STA. 130+00 TO STA. 134+00 PLAN AND PROFILE

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

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS		30	21
CHECKED – LMS			
DATE – 10/27/2022			

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	REVISED –
	REVISED –
	REVISED –

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KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

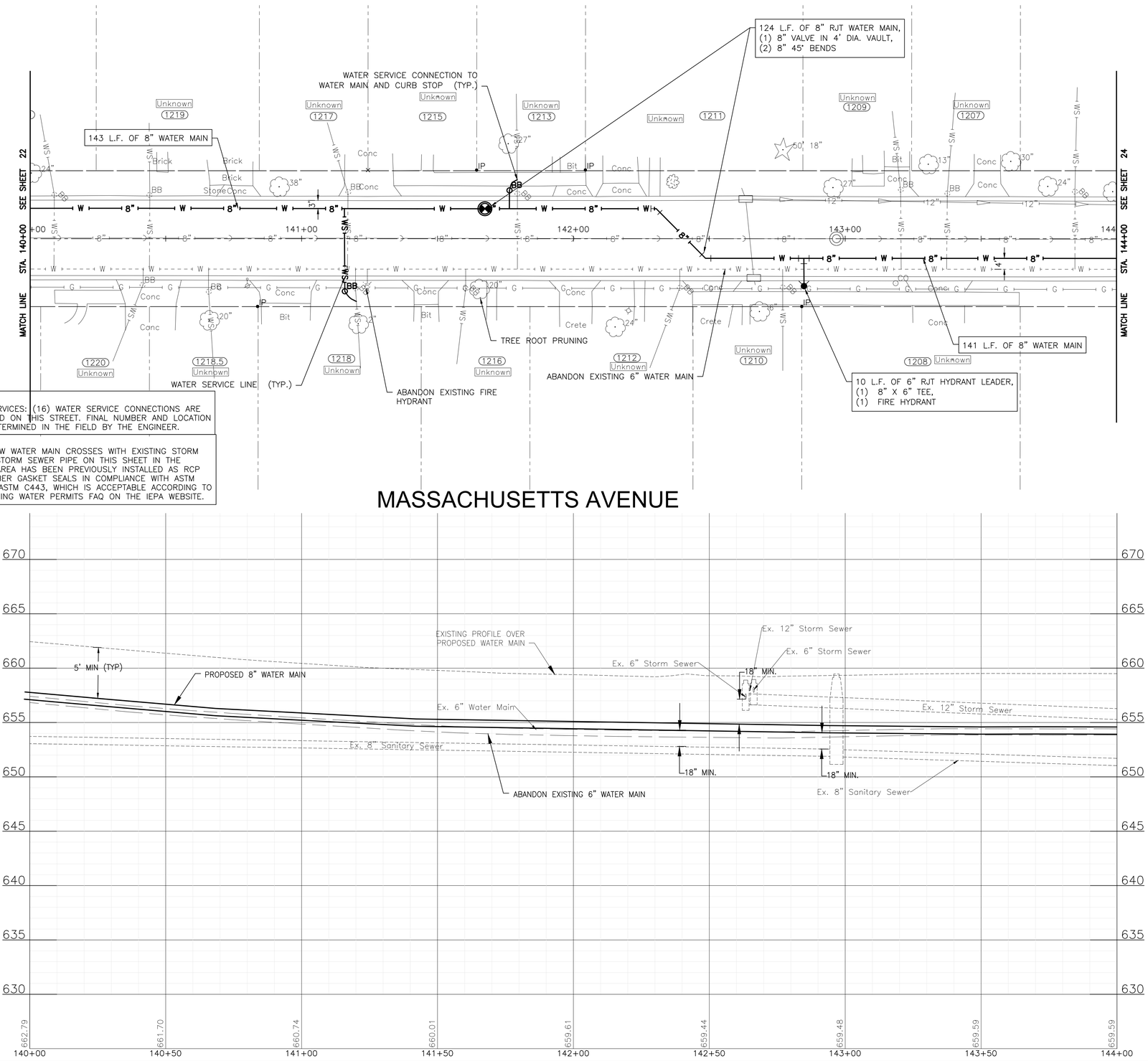
MASSACHUSETTS AVENUE STA. 135+00 TO STA. 140+00 PLAN AND PROFILE

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

DESIGNED –	PMK
DRAWN –	JJS
CHECKED –	LMS
DATE –	10/27/2022

TOTAL SHEETS	SHEET NO.
30	22

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

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

MASSACHUSETTS AVENUE

FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

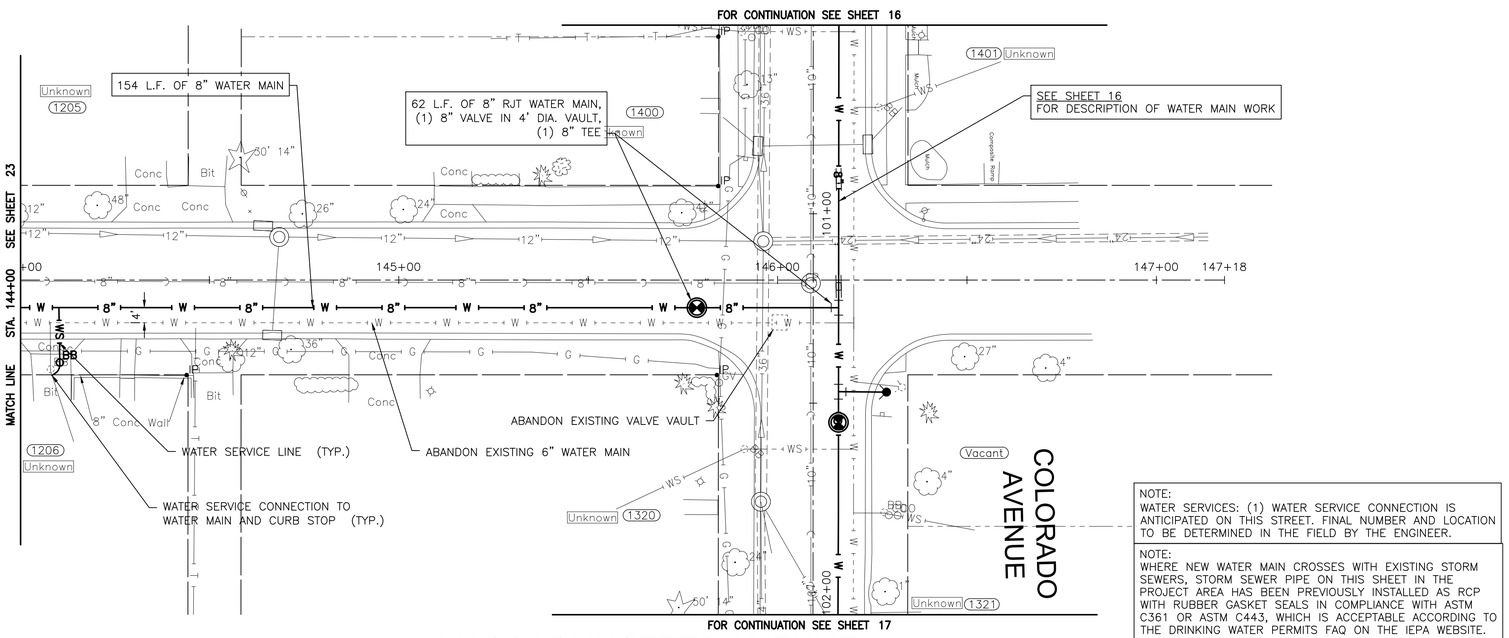
CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

MASSACHUSETTS AVENUE STA. 140+00 TO STA. 144+00 PLAN AND PROFILE

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

DESIGNED – PMK	TOTAL SHEETS: 30
DRAWN – JJS	SHEET NO.: 23
CHECKED – LMS	
DATE – 10/27/2022	

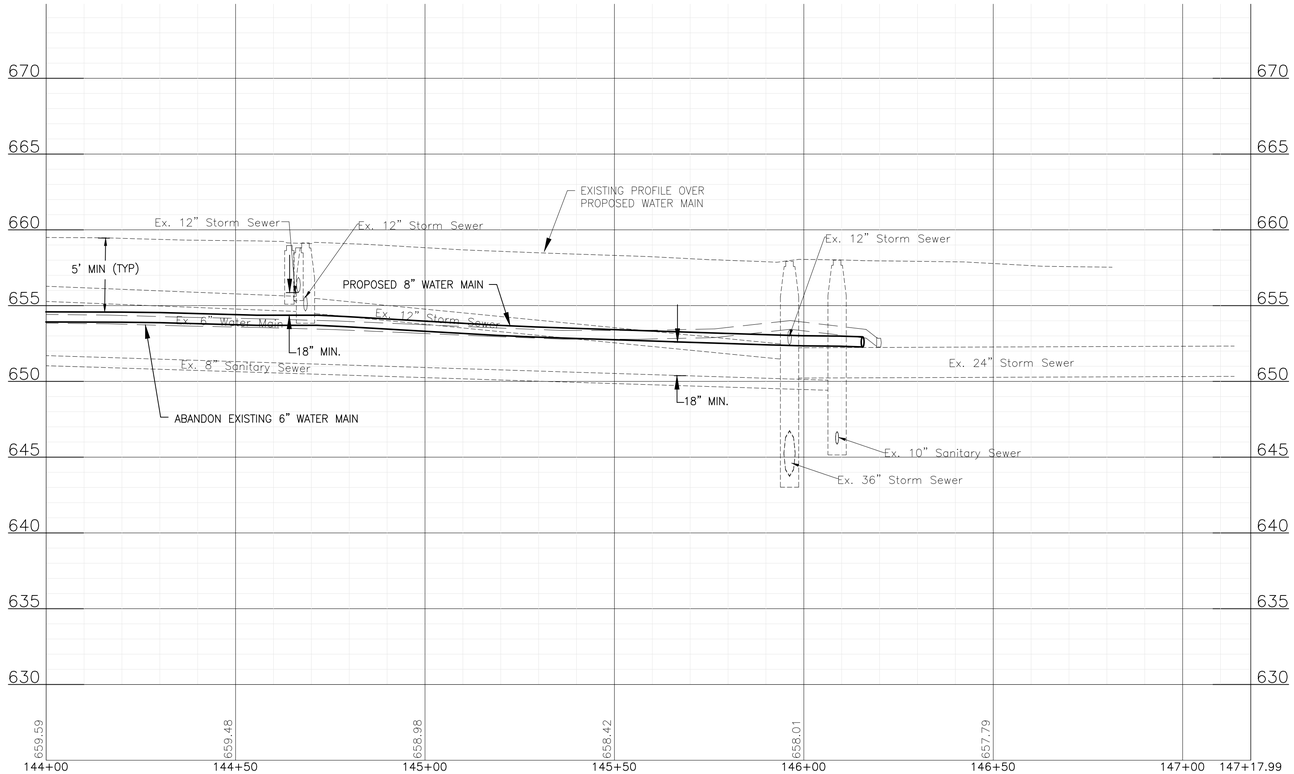
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Plotted: 10/26/2022 2:04 PM By: JSLAGER
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NOTE:
WATER SERVICES: (1) WATER SERVICE CONNECTION IS ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

MASSACHUSETTS AVENUE



FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123
		REVISED –	
		REVISED –	
		REVISED –	

MASSACHUSETTS AVENUE STA. 144+00 TO STA. 147+00 PLAN AND PROFILE

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

DESIGNED – PMK
DRAWN – JJS
CHECKED – LMS
DATE – 10/27/2022

TOTAL SHEETS: 30 | SHEET NO.: 24

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-KERWIN TERRACE-DESIGN.DWG MASSACHUSETTS AVE
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FOR CONTINUATION SEE SHEET 14

WYOMING AVENUE

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

TREE ROOT PRUNING

375 L.F. OF 8" WATER MAIN

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

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

TREE ROOT PRUNING

8" Conc Wall

WATER SERVICE LINE (TYP.)

Flagpole

TREE ROOT PRUNING

ABANDON EXISTING 6" WATER MAIN

TREE ROOT PRUNING

SEE SHEET 13
FOR DESCRIPTION OF WATER MAIN WORK

FOR CONTINUATION SEE SHEET 13

SEE SHEET 26

MATCH LINE STA. 155+00

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

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

TEXAS AVENUE

EXISTING PROFILE OVER PROPOSED WATER MAIN

Ex. 8" Storm Sewer
Ex. 12" Storm Sewer
Ex. 12" Storm Sewer
Ex. 12" Storm Sewer
Ex. 12" Storm Sewer
18" MIN.
Ex. 18" Sanitary Sewer
Ex. 12" Storm Sewer
18" MIN.
Ex. 8" Sanitary Sewer
18" MIN.
PROPOSED 8" WATER MAIN
Ex. 6" Water Main
5' MIN (TYP)
Ex. 8" Sanitary Sewer
ABANDON EXISTING 6" WATER MAIN
Ex. 72" Storm Sewer
Ex. 72" Storm Sewer

670 665 660 655 650 645 640 635 630

660.65 660.72 661.29 661.55 661.81 661.94 661.88 661.40 660.61 659.78 658.98

150+00 150+50 151+00 151+50 152+00 152+50 153+00 153+50 154+00 154+50 155+00

FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

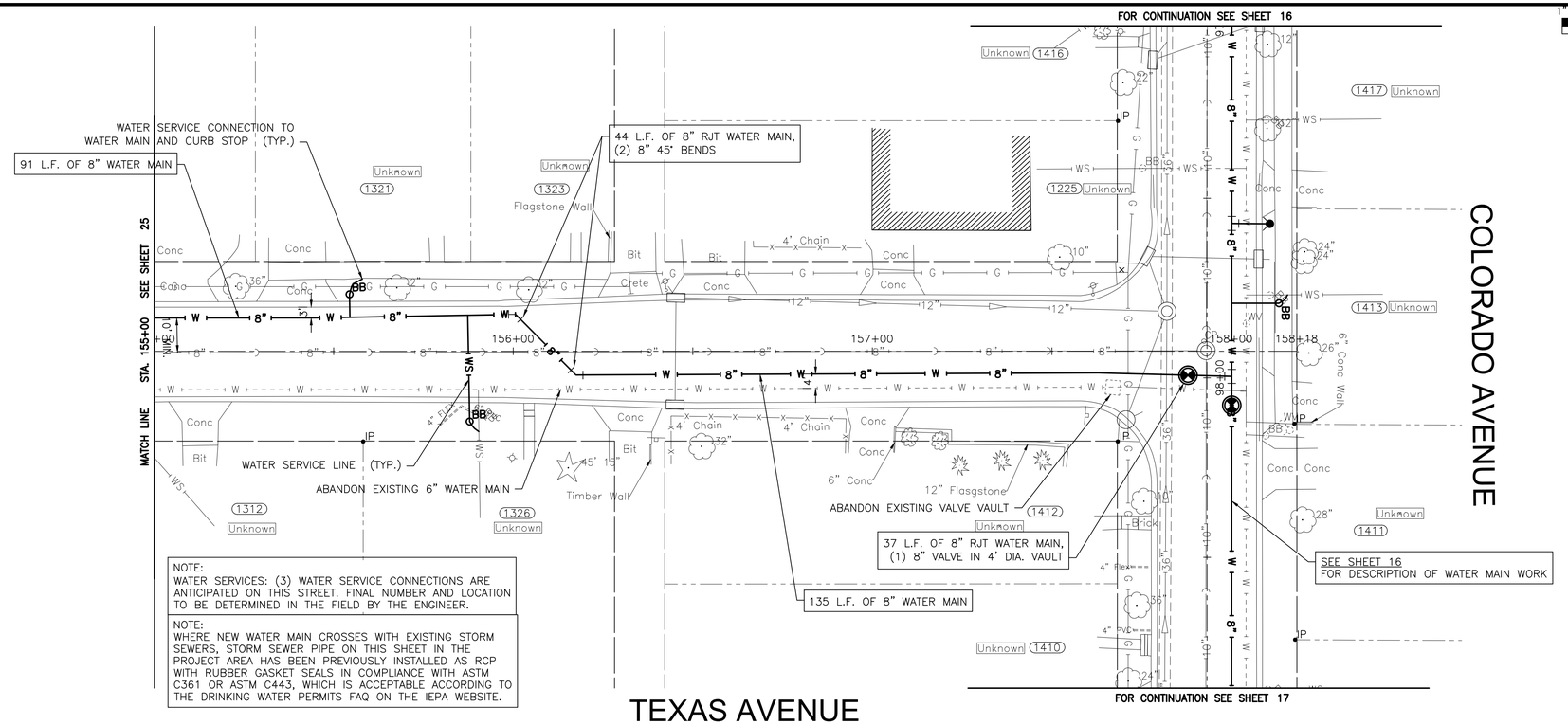
TEXAS AVENUE STA. 150+00 TO STA. 155+00 PLAN AND PROFILE

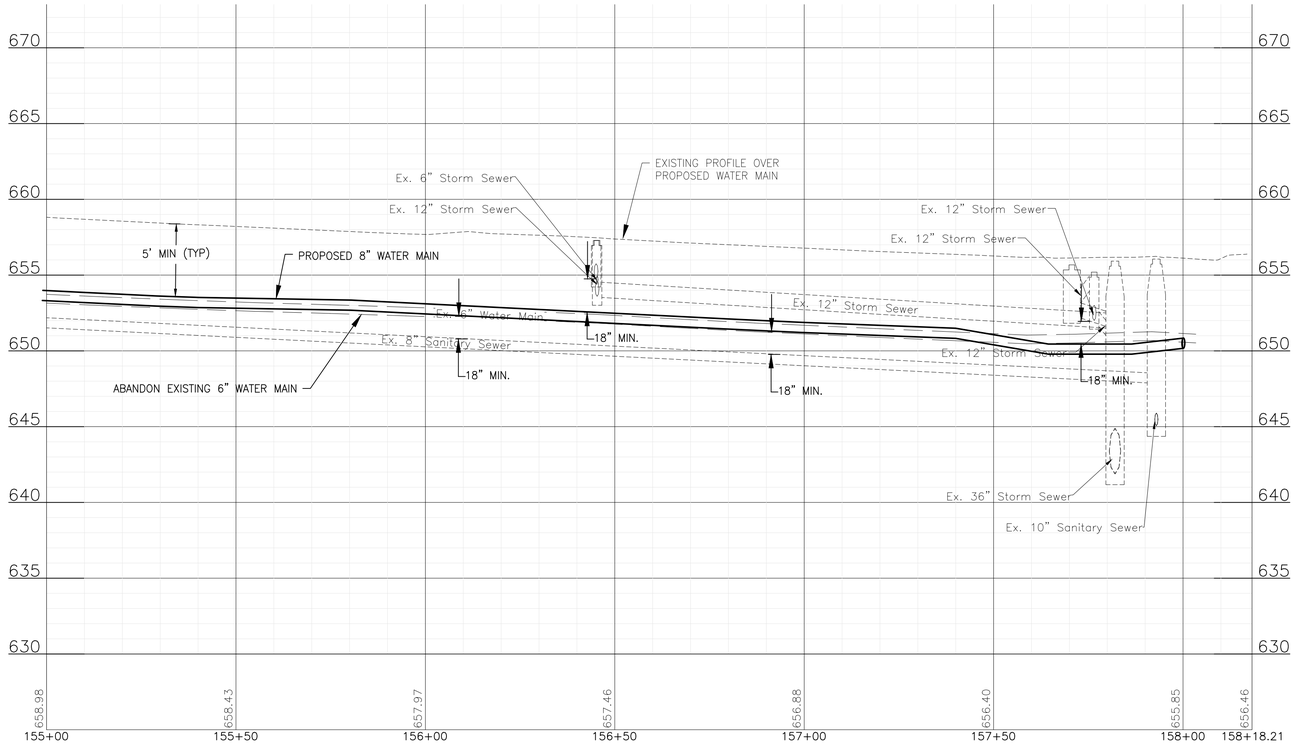
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 211917

DESIGNED – PMK
DRAWN – JJS
CHECKED – LMS
DATE – 10/27/2022

TOTAL SHEETS: 30
SHEET NO.: 25

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BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS KERWIN TERRACE WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO. 2684-0123	TEXAS AVENUE STA. 155+00 TO STA. 159+00 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917

DESIGNED – PMK		TOTAL SHEETS	SHEET NO.
DRAWN – JJS		30	26
CHECKED – LMS			
DATE – 10/27/2022			

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Plotted: 10/26/2022 2:05 PM By: JSLAGER
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FOR CONTINUATION SEE SHEET 14

FOR CONTINUATION SEE SHEET 15

WYOMING AVENUE

COLORADO AVENUE

(1) 8" LINE STOP

22 L.F. OF 8" RJT WATER MAIN,
(1) 8" NON-PRESSURE CONNECTION,
(1) 8" SLEEVE,
(2) 8" 45° BENDS

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

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

124 L.F. OF 8" WATER MAIN

TREE ROOT PRUNING

103 L.F. OF 8" WATER MAIN

SEE SHEET 15
FOR DESCRIPTION OF WATER MAIN WORK

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

ABANDON EXISTING FIRE HYDRANT

ABANDON EXISTING VALVE BOX

ABANDON EXISTING 6" WATER MAIN

WATER SERVICE LINE (TYP.)

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

TREE ROOT PRUNING

ABANDON EXISTING VALVE VAULT

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

SEE SHEET 16
FOR DESCRIPTION OF WATER MAIN WORK

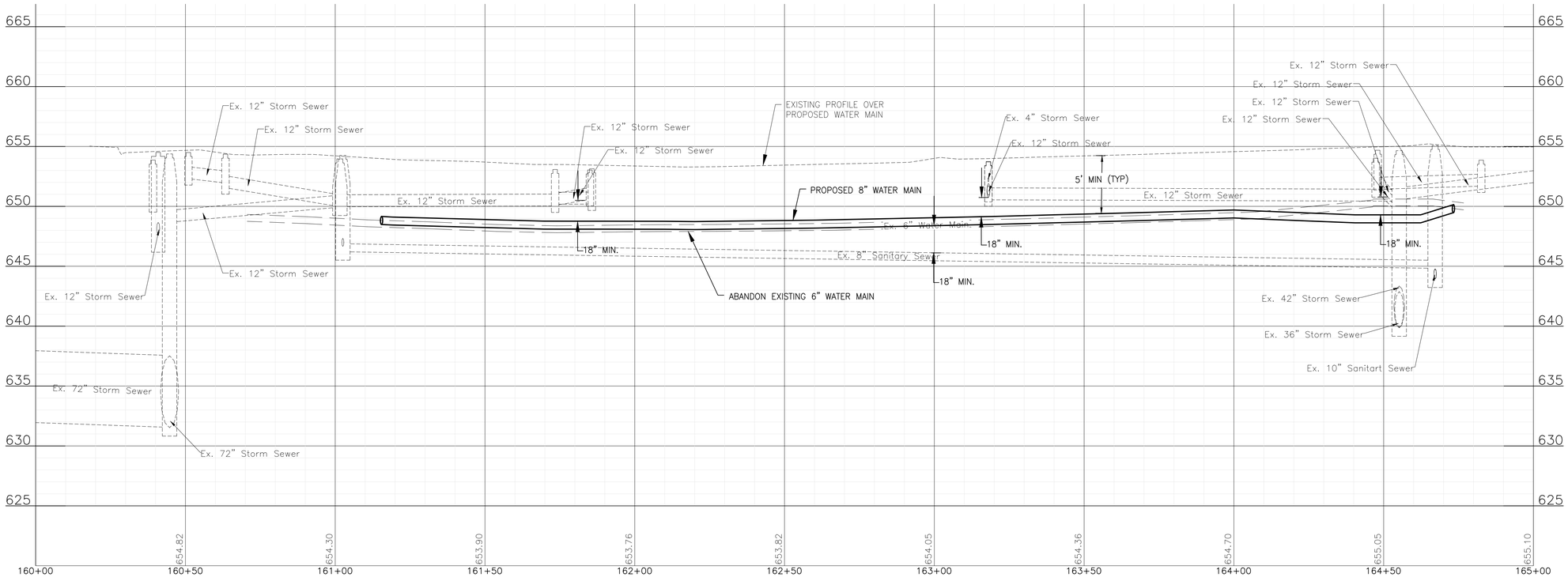
NOTE:
WATER SERVICES: (7) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

PENNSYLVANIA AVENUE

FOR CONTINUATION SEE SHEET 13

FOR CONTINUATION SEE SHEET 16



FINAL DESIGN
FOR BIDDING

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN Consulting Engineers

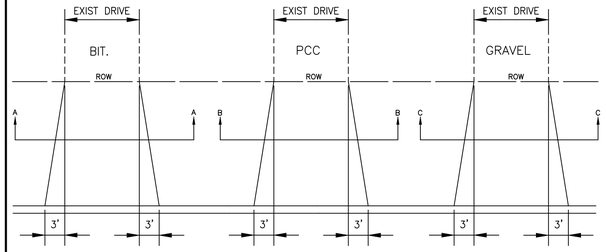
CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

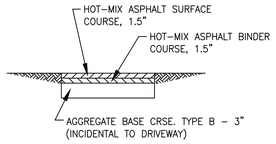
PENNSYLVANIA AVENUE STA. 160+00 TO STA. 166+00 PLAN AND PROFILE

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

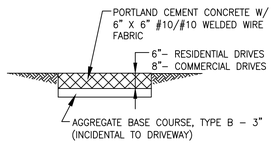
		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS			
CHECKED – LMS		30	27
DATE – 10/27/2022			

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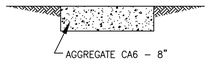




SECTION – A
HOT-MIX ASPHALT



SECTION – B
P.C.C



SECTION – C
GRAVEL

NOTES:

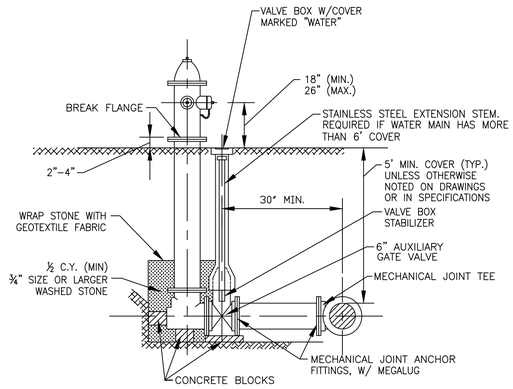
1. APRON: 8:1 SLOPE FROM FRONT OF SIDEWALK TO BACK OF CURB.
2. SIDEWALK: 1/4" / FT SLOPE

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

DRIVEWAY PAVEMENT DETAIL
PVT-01

DATE: OCT. 2017



NOTES:

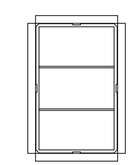
1. MUELLER CENTURION A423, CLOW MEDALLION OR E.J. 5BR250 (RED FOR MUNICIPAL TREATED WATER, GREEN FOR RAW WATER, YELLOW FOR PRIVATE HYDRANTS)
2. HYDRANTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE BACK OF CURB IN LOCATIONS SHOWN ON THE DRAWINGS
3. USE SWIVEL TEE AS CALLED OUT ON PLANS. 30" MINIMUM SEPARATION DOES NOT APPLY WHEN USING SWIVEL TEES.

NOT TO SCALE

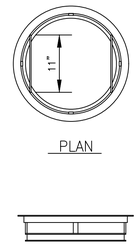
CITY OF JOLIET, ILLINOIS

FIRE HYDRANT DETAIL
WTR-03

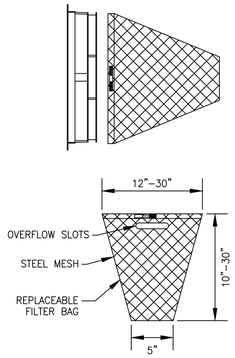
DATE: JUL. 2019



PLAN



SECTION



GENERAL NOTES:

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

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

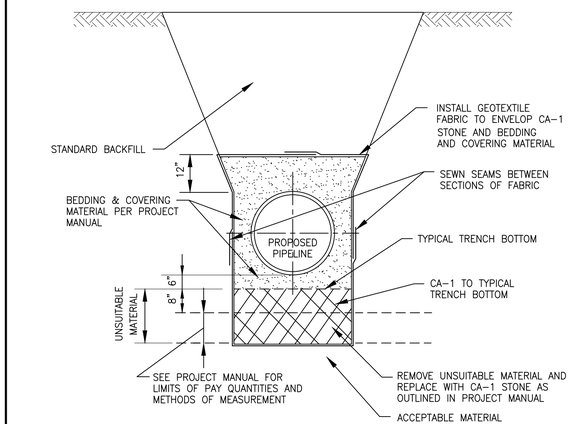
STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

INLET PROTECTION FILTER DETAIL
GEN-02

DATE: OCT. 2017



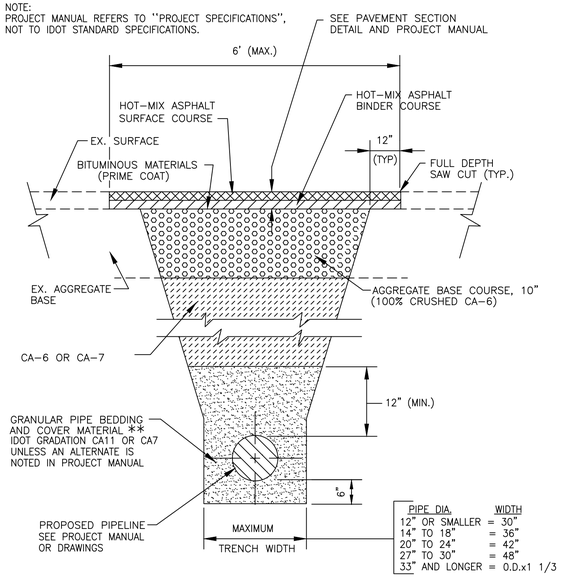
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

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

DATE: OCT. 2017

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



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

FOR PAVEMENT WITH AGGREGATE BASE AND COMPACTED GRANULAR BACKFILL MATERIAL

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

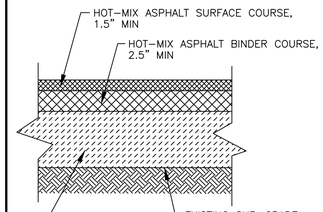
FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

NOT TO SCALE

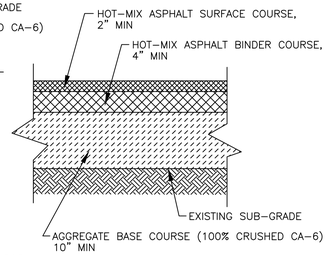
CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL PAVEMENT AREA AGGREGATE BASE
GEN-04

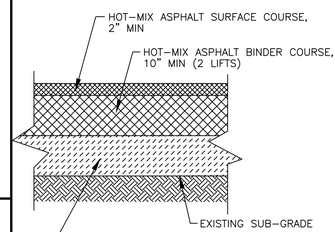
DATE: OCT. 2017



MINOR RESIDENTIAL STREETS



ARTERIAL STREETS



MAJOR ARTERIAL STREETS

NOTES:

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

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL PAVEMENT SECTION
PVT-02

DATE: OCT. 2017

FINAL DESIGN
FOR BIDDING

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	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

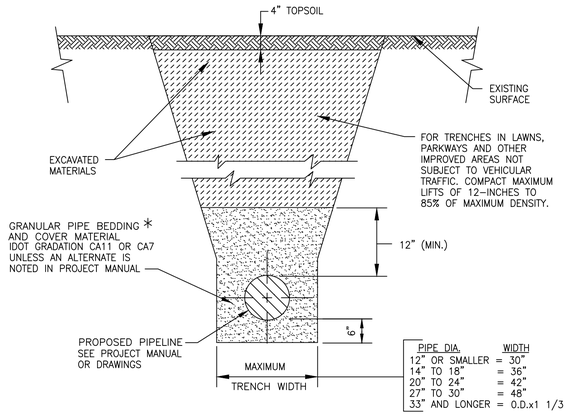
DETAILS 1

SCALE: AS NOTED | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – PMK			
DRAWN – JJS		30	28
CHECKED – LMS			
DATE – 10/27/2022			

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



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

FOR NON-PAVED AREAS

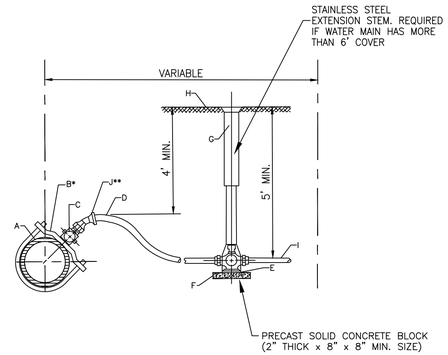
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL
NON PAVED AREAS
GEN-05

DATE: OCT. 2017

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



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

CONSTRUCTION NOTES

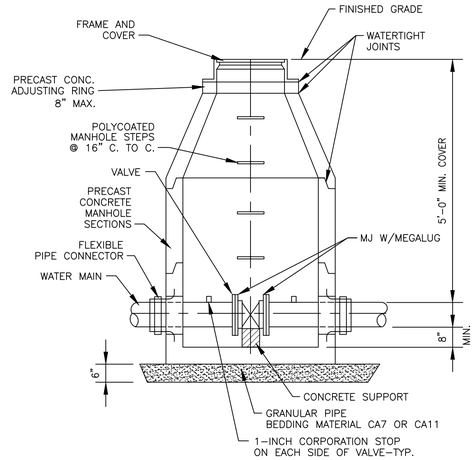
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE
CONNECTION DETAIL
WTR-06

DATE: OCT. 2020



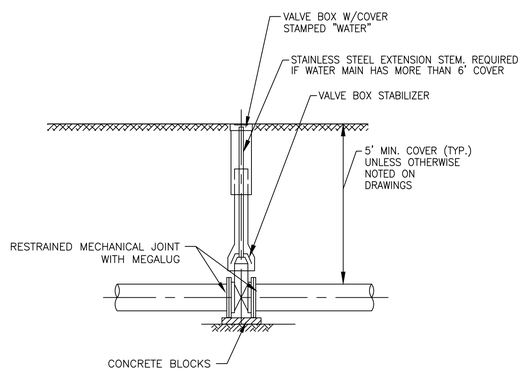
NOTES:
1. CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT
DETAIL
WTR-01

DATE: OCT. 2017

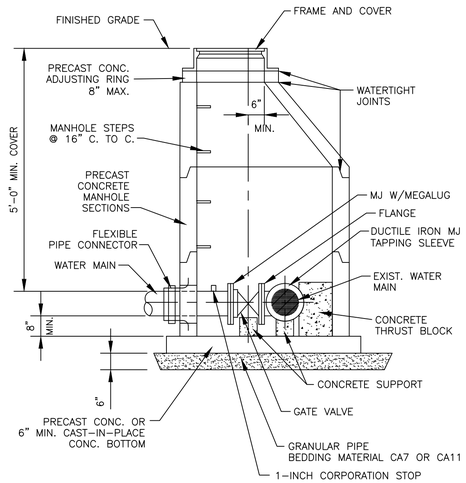


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX
DETAIL
WTR-02

DATE: OCT. 2017



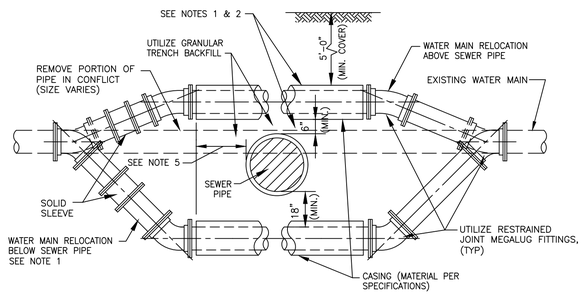
NOTES:
1. ECCENTRIC CONE REQUIRED
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8", USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14", USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PRESSURE CONNECTION
DETAIL
WTR-07

DATE: OCT. 2017



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

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

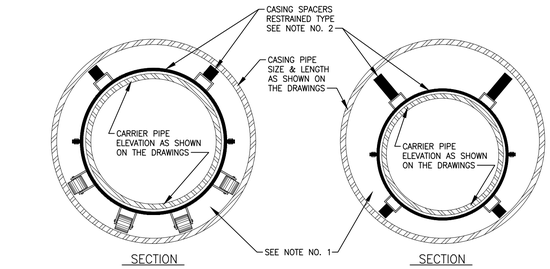
DETAILS 2

SCALE: AS NOTED | PROJECT NO: 211917

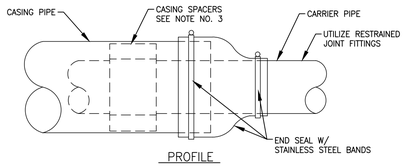
DESIGNED - PMK	
DRAWN - JJS	
CHECKED - LMS	
DATE - 10/27/2022	

TOTAL SHEETS	SHEET NO.
30	29

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-COVER_GEN_DETS-KERWIN TERRACE.DWG DETAILS (2)
Plotted: 10/26/2022 2:05 PM By: JSLAGER
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SECTION SECTION



PROFILE

NOTES

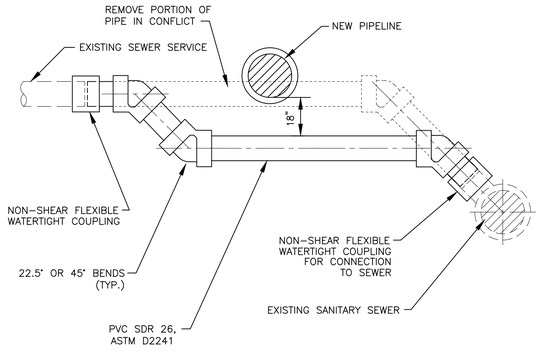
1. FILLING OF ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH SAND OR PEA GRAVEL IS NOT REQUIRED WHEN UTILIZING CASING SPACERS, UNLESS CONTRACTOR IS INSTRUCTED TO DO SO ON DRAWINGS OR IN SPECIFICATIONS.
2. WHERE CARRIER PIPE IS NOT CENTERED IN CASING PIPE, PROVIDE CASING SPACERS WITH LEGS THAT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

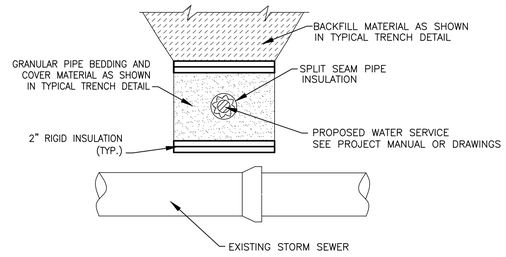


NOT TO SCALE

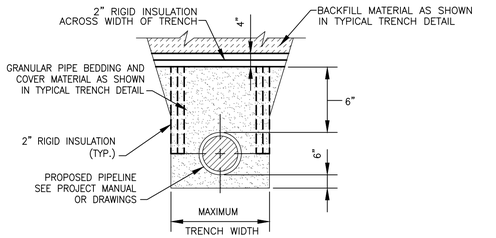
CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE RELOCATION
SAN-03

DATE: OCT. 2017



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

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

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

POLYWRAPPED DI RJT DETAIL
RJT-01

DATE: OCT. 2022

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

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

POLYWRAPPED PVC RJT DETAIL
RJT-02

DATE: OCT. 2022

FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
KERWIN TERRACE WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2684-0123

DETAILS 3

SCALE: AS NOTED | PROJECT NO: 211917

DESIGNED – PMK
DRAWN – JJS
CHECKED – LMS
DATE – 10/27/2022

TOTAL SHEETS: 30 | SHEET NO.: 30

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\KERWIN TERRACE\01_CIVIL 3D\01_SHTS-PLANS\211917-COVER_GEN_DETS-KERWIN TERRACE.DWG DETAILS (3)
Plotted: 10/26/2022 2:05 PM By: JSLAGER
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