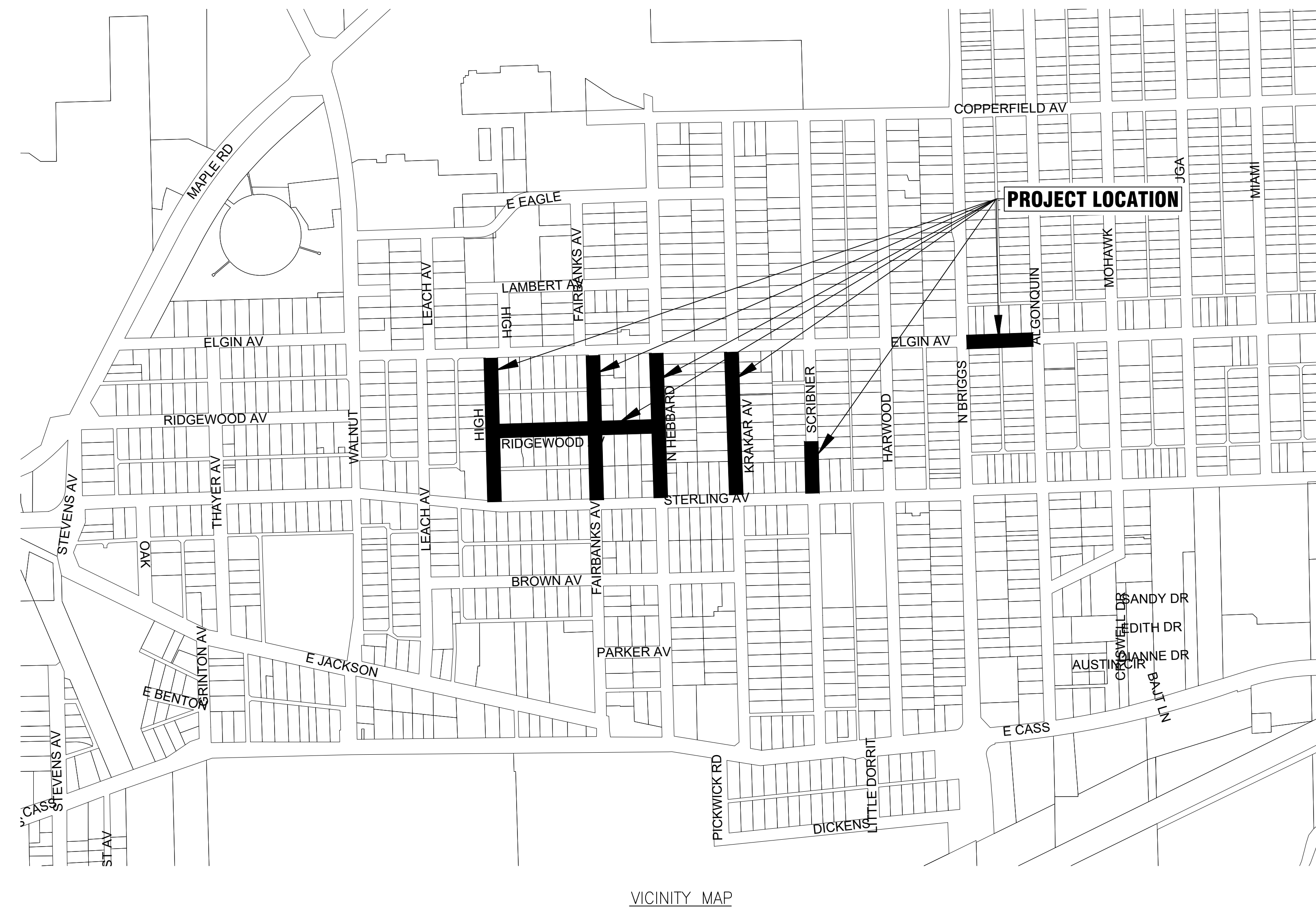
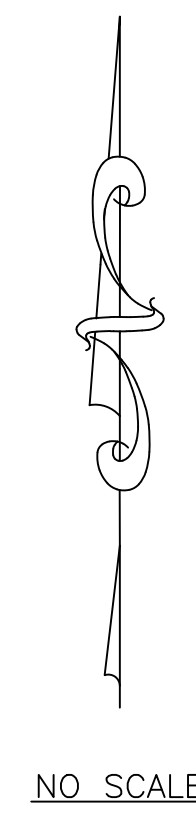


# CITY OF JOLIET, ILLINOIS

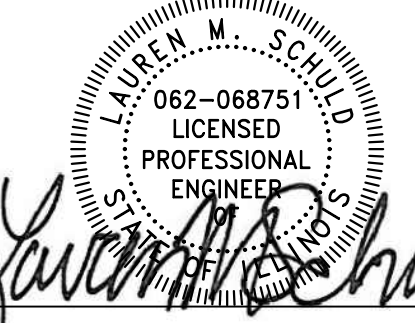
## RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS

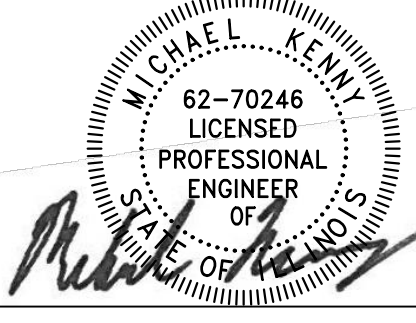
### CITY OF JOLIET CONTRACT NO. 2609-0122



Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	LEGENDS, BENCHMARKS, AND ABBREVIATIONS
3	GENERAL NOTES, AND SUMMARY OF QUANTITIES
4	HIGH STREET STA. 10+00 TO STA. 15+00 PLAN AND PROFILE
5	HIGH STREET STA. 15+00 TO STA. 18+50 PLAN AND PROFILE
6	FAIRBANKS AVENUE STA. 19+00 TO STA. 24+00 PLAN AND PROFILE
7	FAIRBANKS AVENUE STA. 24+00 TO STA. 27+50 PLAN AND PROFILE
8	NORTH HEBBARD STREET STA. 28+00 TO STA. 33+00 PLAN AND PROFILE
9	NORTH HEBBARD STREET STA. 33+00 TO STA. 36+50 PLAN AND PROFILE
10	KRAKAR AVENUE STA. 37+00 TO STA. 42+00 PLAN AND PROFILE
11	KRAKAR AVENUE STA. 42+00 TO STA. 45+50 PLAN AND PROFILE
12	SCRIBNER STREET STA. 46+00 TO STA. 49+50 PLAN AND PROFILE
13	SCRIBNER STREET STA. 49+50 TO STA. 52+50 PLAN AND PROFILE
14	RIDGEWOOD AVENUE STA. 53+00 TO STA. 57+00 PLAN AND PROFILE
15	RIDGEWOOD AVENUE STA. 57+00 TO STA. 60+70 PLAN AND PROFILE
16	ELGIN AVENUE STA. 61+00 TO STA. 67+00 PLAN AND PROFILE
17	DETAILS
18	DETAILS
19	DETAILS
20	IDOT DETAILS

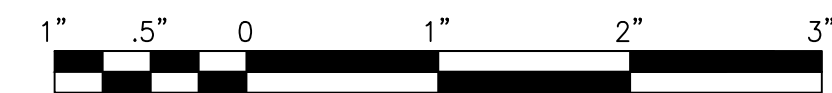
J.U.L.I.E. DESIGN STAGE REQUEST  
DIG NO. A0571251  
EXISTING UTILITIES:  
WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER 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.

  
*Aurel M. Schold*  
PROJECT MANAGER  
"LICENSE EXPIRES 11-30-2021"

  
*Michael Reim*  
PROJECT ENGINEER  
"LICENSE EXPIRES 11-30-2021"



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BAXTER & WOODMAN, INC.  
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
LICENSE NO. - 184-001121 - EXPIRES 4/30/2023

PROJECT NO.: 210039.40 DATE: 11/18/21

I:\AZURE\JOLICY\210039-2022 WATER MAIN\CAD\RIDGEWOOD PH 3.DWG 1 COVER  
Plotted: 11/10/2021 8:38 AM By: ANACINO

EXISTING	LEGEND	PROPOSED
	SANITARY SEWER OR SERVICE	
	STORM SEWER OR SERVICE	
	WATER MAIN OR SERVICE	
	FORCE MAIN	
	MANHOLE	
	CATCH BASIN	
	INLET	
	DRYWELL	
	CULVERT END SECTION	
	FIRE HYDRANT W/ AUX. VALVE, VALVE BOX, AND COVER	
	WATER VALVE W/ BOX AND COVER	
	WATER VALVE VAULT	
	WATER SERVICE BOX OR CURB STOP	
	WATER TEE FITTING	
	WATER SLEEVE FITTING	
	WATER 90° FITTING	
	WATER 45° FITTING	
	WATER REDUCER FITTING	
	CAP FITTING	
	WATER CROSS FITTING	
	WATER METER	
	CLEAN OUT	
	SEPTIC VENT	
	TO BE ABANDONED AND/OR REMOVED STRUCTURE TO BE ABANDONED	
	GAS LINE	
	GAS VALVE W/ BOX AND COVER	
	GAS VALVE VAULT	
	GAS METER	
	GAS RISER	
	GAS SERVICE VALVE	
	TELEPHONE CABLE	
	TELEPHONE DUCT	
	TELEPHONE RISER	
	CABLE TELEVISION (BURIED)	
	CABLE T.V. RISER	
	CABLE T.V. VAULT	
	UNDERGROUND ELECTRICAL	

EXISTING	LEGEND	PROPOSED
	ELECTRIC METER	
	PAD MOUNTED TRANSFORMER	
	ELECTRIC VAULT	
	JUNCTION BOX	
	UTILITY POLE	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
	MAIL BOX	
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD	
	HANDHOLE	
	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	
	CONIFEROUS TREE (W/ HEIGHT)	
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
	FENCE	
	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
	DITCH	
	RIGHT OF WAY (ROW)	
	RIGHT OF WAY MONUMENT	
	UNFENCED PROPERTY LINE	
	IRON PIPE (PROPERTY CORNER)	
	CENTER LINE	
	PROPOSED EL./EXISTING EL. and STATION	
	SOIL BORING AND NUMBER	
	BENCH MARK	
	SURVEY CONTROL POINT	
	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

(HATCHED SHALL BE REMOVED)  
 (HATCHED SHALL BE REMOVED)

**BENCHMARKS (NAVD 88 DATUM)**

B.M. # 600		RAILROAD SPIKE SET IN SOUTHEAST FACE UTILITY POLE LOCATED AT NORTHWEST CORNER OF HIGH STREET AND STERLING AVENUE ELEV. = 646.72
B.M. # 601		RAILROAD SPIKE SET IN SOUTHWEST FACE UTILITY POLE LOCATED AT NORTHEAST CORNER OF HIGH STREET AND RIDGEWOOD AVENUE ELEV. = 637.68
B.M. # 602		RAILROAD SPIKE SET IN NORTH FACE UTILITY POLE LOCATED AT SOUTHEAST CORNER OF HIGH STREET AND ELGIN AVENUE ELEV. = 625.63
B.M. # 603		RAILROAD SPIKE SET IN NORTH FACE UTILITY POLE LOCATED AT NORTHWEST CORNER OF FAIRBANKS AVENUE AND ELGIN AVENUE ELEV. = 637.39
B.M. # 604		RAILROAD SPIKE SET IN NORTHEAST FACE UTILITY POLE LOCATED AT SOUTHWEST CORNER OF FAIRBANKS AVENUE AND RIDGEWOOD AVENUE ELEV. = 640.42
B.M. # 605		RAILROAD SPIKE SET IN EAST FACE UTILITY POLE LOCATED AT NORTHWEST CORNER OF FAIRBANKS AVENUE AND STERLING AVENUE ELEV. = 647.423
B.M. # 606		NORTHWEST FLANGE BOLT ON FIRE HYDRANT LOCATED AT NORTHEAST CORNER OF HEBBARD STREET AND STERLING AVENUE ELEV. = 646.01
B.M. # 607		RAILROAD SPIKE SET IN EAST FACE UTILITY POLE LOCATED AT NORTHWEST CORNER OF HEBBARD STREET AND RIDGEWOOD AVENUE ELEV. = 639.113
B.M. # 608		RAILROAD SPIKE SET IN NORTH FACE UTILITY POLE LOCATED AT SOUTHWEST CORNER OF HEBBARD STREET AND ELGIN AVENUE ELEV. = 641.70
B.M. # 609		RAILROAD SPIKE SET IN NORTH FACE UTILITY POLE LOCATED AT SOUTHWEST CORNER OF KRAKAR AVENUE AND ELGIN AVENUE ELEV. = 646.03
B.M. # 610		RAILROAD SPIKE SET IN SOUTHEAST FACE UTILITY POLE LOCATED AT NORTHWEST CORNER OF KRAKAR AVENUE AND STERLING AVENUE ELEV. = 649.40
B.M. # 69740		NORTHEAST FLANGE BOLT ON FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF STERLING AVENUE AND SCRIBNER STREET ELEV. = 652.89
B.M. # 70423		RAILROAD SPIKE SET IN NORTHWEST FACE UTILITY POLE LOCATED AT SOUTHWEST CORNER OF BRIGGS STREET AND ELGIN AVENUE ELEV. = 665.09
B.M. # 70455		RAILROAD SPIKE SET IN SOUTH FACE UTILITY POLE LOCATED AT NORTHEAST CORNER OF ALGONQUIN STREET AND ELGIN AVENUE ELEV. = 663.86

**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

I:\AZURE\JULIET\210039-2022 WATER MAIN\CAD\RIDGEWOOD PH 3\DWG\CURRENT\210039-COVER\_GEN\_RIDGEWOOD PH 3.DWG 2 LEGENDS BENCHMARKS AND ABBREVIATIONS  
 Plotted: 11/10/2021 8:38 AM By: ANACINO  
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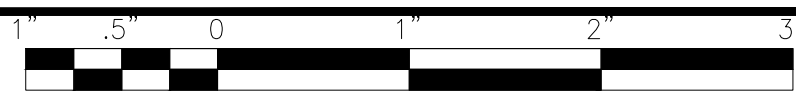
CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

LEGENDS, BENCHMARKS, AND ABBREVIATIONS	
SCALE: AS NOTED	PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	2
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



### CITY OF JOLIET WATER SYSTEM GENERAL NOTES

### MAINTENANCE OF TRAFFIC NOTES

### SUMMARY OF QUANTITIES

- VERIFY LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF THE WATER MAIN. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND LOCATE UTILITIES PRIOR TO ANY WORK.
- WHENEVER IT BECOMES NECESSARY TO RELOCATE UNDERGROUND GAS MAINS, TELEPHONE CONDUIT, OR ELECTRICAL LINES OR SUPPORT OR RELOCATE UTILITY POLES, THE UTILITY COMPANY INVOLVED WILL MAKE SUCH RELOCATION OR PROVIDE POLE SUPPORT. NOTIFY THE UTILITY COMPANY PROMPTLY. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
- WHEREVER OBSTRUCTIONS NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING THE PROGRESS OF THE WORK AND INTERFERE TO SUCH AN EXTENT THAT ALTERATIONS TO THE DRAWINGS ARE REQUIRED, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CHANGES.
- HORIZONTAL AND VERTICAL SEPARATION OF WATER MAINS AND SEWER LINES SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- PROVIDE PROPERTY OWNERS ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAYS.
- DO NOT STORE BEDDING AND BACKFILL MATERIALS, PIPES, FITTINGS, VAULTS, OR OTHER MATERIALS IN AREAS THAT WILL OBSTRUCT SIGHT LINES FOR STREETS AND DRIVEWAYS.
- ALL PROPOSED WATER MAIN AND SERVICES UNDER AND WITHIN 2' OF PAVEMENT OR SIDEWALK SHALL BE BACKFILLED WITH TRENCH BACKFILL WHICH SHALL BE CRUSHED STONE, GRADATION CA 6 OR CA 7.
- ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF JOLIET DEPARTMENT OF PUBLIC UTILITIES APPROVED MATERIALS LIST, LATEST EDITION.
- INSTALL NEW WATER MAIN WITH A MINIMUM OF 5' COVER BELOW EXISTING OR PROPOSED GROUND SURFACE UNLESS GREATER DEPTH IS REQUIRED TO AVOID EXISTING UTILITIES OR WHERE INDICATED ON THE DRAWINGS.
- PROVIDE 48 HOURS ADVANCE NOTICE TO THE CITY WHEN CONNECTION TO AN EXISTING WATER MAIN WILL BE MADE. COORDINATE SHUTDOWN OF EXISTING WATER MAINS WHEN REQUIRED WITH THE CITY. SCHEDULE THE WORK TO MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS. PROVIDE WRITTEN NOTIFICATION OF SHUTDOWNS TO WATER USERS AFFECTED 24 HOURS IN ADVANCE.
- NOTIFY THE CITY'S PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IF EXISTING LEAD WATER SERVICES ARE DISCOVERED.
- 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.
- PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.
- 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.
- SEWER TESTING, CLEANING, AND TELEVISION REQUIREMENTS: ALL SANITARY SEWER MAINS SHALL BE DEFLECTION TESTED AND AIR TESTED PER THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS". ALL NEWLY CONSTRUCTED SEWER MAINS SHALL BE CLEANED AND TELEVIEWED PRIOR TO BEING PUT INTO SERVICE.
- USE RESTRAINED MECHANICAL JOINT FITTINGS WITH MEGALUG TO PLUG/CAP EXISTING WATER MAINS TO REMAIN IN SERVICE AND FOR EXISTING WATER MAINS TO BE ABANDONED. PLUGS/CAPS ON WATER MAIN TO REMAIN IN SERVICE SHALL INCLUDE AN ADEQUATELY SIZED CAST-IN-PLACE CONCRETE THRUST BLOCK AS DIRECTED BY THE CITY.
  - ALL STREETS SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE EXCEPT ON ELGIN AVE WHERE WATER MAIN CROSSES BRIGGS ST. THIS INTERSECTION SHALL HAVE 10 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
- 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.
- AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS THE PROJECT IS COMPLETED. ANY CHANGE IN THE LENGTH, LOCATION, OR ALIGNMENT SHALL BE SHOWN IN RED.
- EROSION CONTROL WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN IEPA/WPC/87-012 OR CURRENT EDITION.
- 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.
- IT SHALL BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE EXCLUSIVE DUTY AND RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION. IT SHALL EXCLUSIVELY BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO INVESTIGATE AND ASCERTAIN THE CURRENT PHYSICAL STATE AND OPERATIONAL STATUS OF THE CITY'S WATER SUPPLY SYSTEM AND THE CITY'S SANITARY SEWER SYSTEM, INCLUDING WHETHER A WATER MAIN OR OTHER VESSEL IS OPERATIONAL, CONTAINS WATER, IS PRESSURIZED, OR IS OTHERWISE SAFE TO ALTER. ANY INFORMATION PROVIDED BY THE CITY, OR ITS EMPLOYEES AND CONSULTANTS, REGARDING THE STATE OF ITS WATER SUPPLY AND SANITARY SEWER SYSTEMS IS PROVIDED AS A COURTESY TO THE CONTRACTOR BUT IS NOT WARRANTED TO BE TRUE AND MAY NOT BE RELIED ON BY THE CONTRACTOR IN SATISFACTION OF, OR TO DIMINISH, ITS EXCLUSIVE DUTY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS AND ITS EXCLUSIVE RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION.
- WATER SERVICE INSTALLATION WORK MUST BEGIN WITHIN 7 DAYS OF IEPA APPROVAL. FINAL PAVEMENT RESTORATION MUST BE COMPLETED WITHIN 21 DAYS AFTER THE LAST COMPLETED WATER SERVICE CONNECTION ON ANY ONE STREET OR MOVING THE EXCAVATION CREW AND EQUIPMENT TO ANOTHER STREET. THE CONTRACTOR HAS THE OPTION TO INSTALL TEMPORARY PAVEMENT AT NO ADDITIONAL COST TO THE CITY WITHIN 7 CALENDAR DAYS. THE CITY CAN STOP OPERATIONS UNTIL TEMPORARY PAVEMENT IS PLACED OR PERMANENT PAVEMENT RESTORATION IS COMPLETE.

- EMERGENCY VEHICLES ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY SIGNIFICANT CHANGE IN TRAFFIC CONTROL SHALL HAVE 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.
- DAYTIME LANE CLOSURE ON BRIGGS ST SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS (701001, 701006, AND 701501). A TEN (10) FOOT TRAVEL LANE MUST BE MAINTAINED AT A MINIMUM OF EIGHT (8) FEET FROM EDGE OF TRENCH TO EDGE OF TRAVEL LANE.
- BRIGGS STREET SHALL BE OPEN TO TWO WAY TRAFFIC AT THE END OF EACH WORK DAY. THERE SHALL BE NO DROP OFFS WITHIN EIGHT (8) FEET OF EITHER TRAVEL LANE AT THE END OF THE DAY. ALL TRENCHES ON BRIGGS STREET SHALL BE BACKFILLED WITH THE TOP 12 INCHES BEING CA-6 OR PLATED AT THE END OF THE WORKDAY. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM TRENCH BACKFILL.
- BRIGGS STREET SHALL BE PATCHED WITH HMA THICKNESS MATCHING THE EXISTING THICKNESS WITHIN 3 WEEKS OF PAVEMENT REMOVAL.
- SEE HIGHWAY STANDARD 701501 FOR DRUM SPACING.
- CONSTRUCTION VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED OVERNIGHT WITHIN BRIGGS STREET RIGHT-OF-WAY. THE ENGINEER WILL ASSIST THE CONTRACTOR IN IDENTIFYING CONSTRUCTION STAGING LOCATIONS AT THE START OF CONSTRUCTION.

CITY OF JOLIET RIDGWOOD PHASE 3 WATER MAIN IMPROVEMENTS			
NO.	PAY ITEM	UNIT	QUANTITY
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	TRAFFIC CONTROL AND PROTECTION	LSUM	1
3	GRANULAR TRENCH BACKFILL	CUYD	2400
4	CONTROLLED LOW STRENGTH FLOWABLE FILL MIXTURE (CLSM)	CUYD	70
5	DUCTILE IRON WATER MAIN (OPEN CUT), 6-INCH	FOOT	150
6	DUCTILE IRON WATER MAIN (OPEN CUT), 8-INCH	FOOT	4117
7	DUCTILE IRON WATER MAIN (OPEN CUT), 12-INCH	FOOT	20
8	MISCELLANEOUS FITTINGS	POUND	6500
9	PROJECT MANAGEMENT	HOURLY	3
10	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH	77
11	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH	1
12	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	490
13	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	25
14	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	1470
15	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	25
16	WATER SERVICE LINE TYPE L, 3/4-INCH	FOOT	20
17	WATER SERVICE LINE TYPE L, 1-INCH	FOOT	20
18	WATER SERVICE LINE TYPE L, 1.5-INCH	FOOT	20
19	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE	EACH	1
20	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	1
21	UTILITY LOCATION - PRIVATE PROPERTY	EACH	1
22	WATER METER RELOCATION	EACH	1
23	WATER METER REPLACEMENT	EACH	1
24	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	3
25	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	5
26	CONNECT TO WATER MAIN (NON-PRESSURE), 12-INCH	EACH	2
27	CONNECT TO WATER MAIN (PRESSURE), 12-INCH X 8-INCH	EACH	4
28	GATE VALVE, 8-INCH	EACH	17
29	VALVE BOX	EACH	8
30	VALVE VAULT, 4-FOOT DIAMETER	EACH	9
31	VALVE VAULT, 5-FOOT DIAMETER	EACH	4
32	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT	5
33	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	VFT	5
34	FIRE HYDRANT	EACH	9
35	FIRE HYDRANT BARREL EXTENSION	VFT	5
36	LINE STOP, 6-INCH	EACH	4
37	LINE STOP, 8-INCH	EACH	2
38	LINE STOP, 12-INCH	EACH	2
39	ABANDON EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
40	FILLING OF EXISTING WATER MAIN PIPE FOR ABANDONMENT	CUYD	4
41	SANITARY SEWER REMOVAL AND REPLACEMENT, 8-INCH	FOOT	51
42	STORM SEWER REMOVAL AND REPLACEMENT - 15-INCH	FOOT	20
43	STORM SEWER REMOVAL AND REPLACEMENT, 18-INCH	FOOT	22
44	INLET PROTECTION FILTER	EACH	39
45	TEMPORARY HOT-MIX ASPHALT PAVEMENT	SOYD	310
46	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5" BINDER 1.5" SURFACE	SOYD	3800
47	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 10" BINDER 2" SURFACE	SOYD	110
48	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SOYD	150
49	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SOYD	150
50	GRAVEL SHOULDER RESTORATION	FOOT	150
51	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	400
52	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	2000
53	DETECTABLE WARNINGS	SQFT	10
54	PAVEMENT MARKING, 6-INCH (THERMOPLASTIC)	FOOT	210
55	PAVEMENT MARKING, 24-INCH (THERMOPLASTIC)	FOOT	180
56	RESTORATION OF LAWNS AND PARKWAYS	SOYD	700
57	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT	130
58	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	14
59	DUST CONTROL	DAY	13
60	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	48
61	SOIL TESTS FOR CONTAMINANTS	EACH	8
62	CONTAMINATED WASTE DISPOSAL	CUYD	48
63	EXPLORATORY EXCAVATION	EACH	7
64	TREE ROOT PRUNING	EACH	3
65	TREE TRIMMING	LSUM	1
66	WATER SERVICE LOCATE	LSUM	1

I:\AZURE\JOLIET\210039-2022 WATER MAIN\CAD\RIDGEWOOD PH 3.DWG 3 GENERAL NOTES AND SUMMARY OF QUANTITIES  
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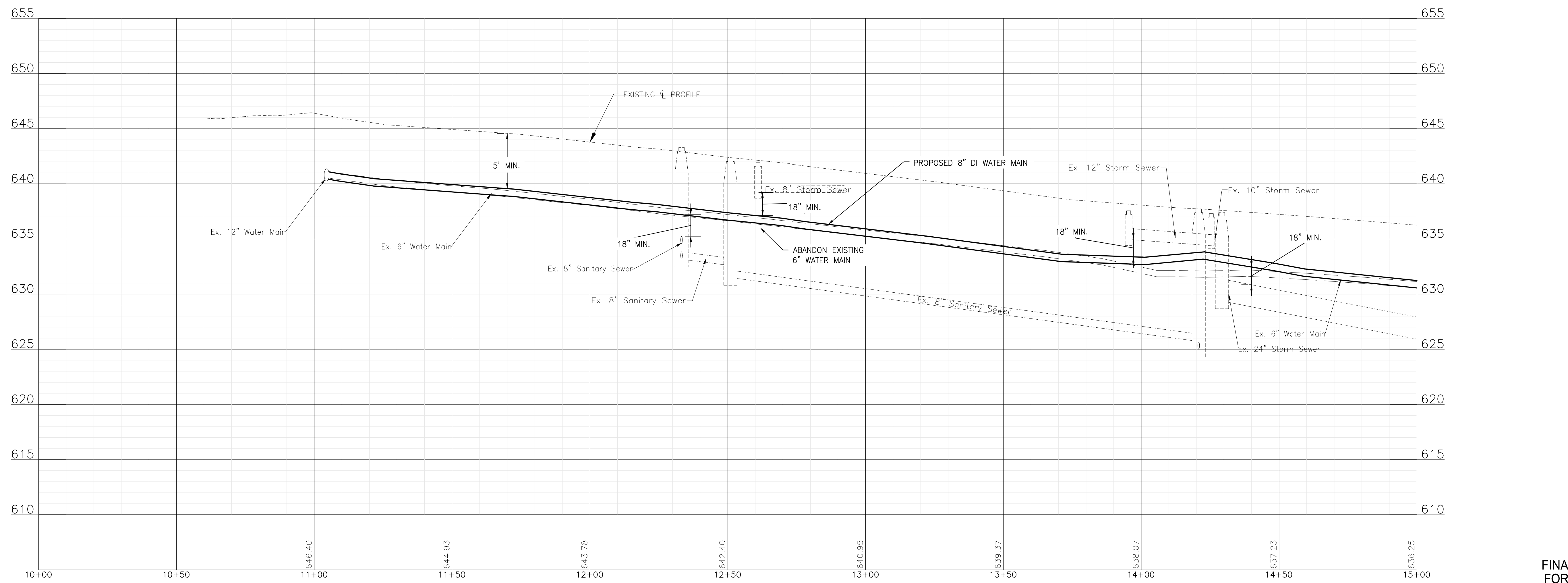
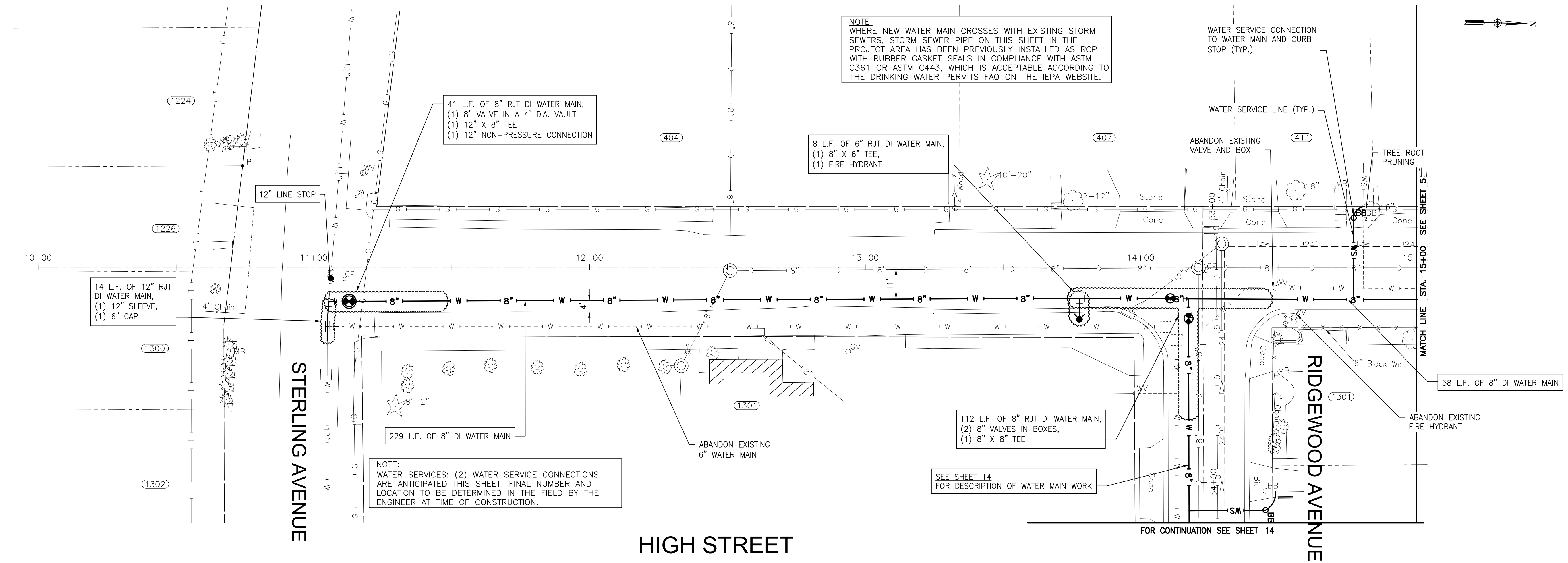
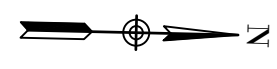
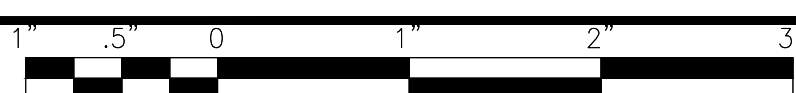
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**CITY OF JOLIET, ILLINOIS**  
**RIDGWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**GENERAL NOTES, AND SUMMARY OF QUANTITIES**  
 SCALE: AS NOTED PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	3
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\RIDGEWOOD PH 3\DWG\CURRENT\210039 DESIGN-SHEETS\RIDGEWOOD PH3 C5D16.DWG HIGH ST  
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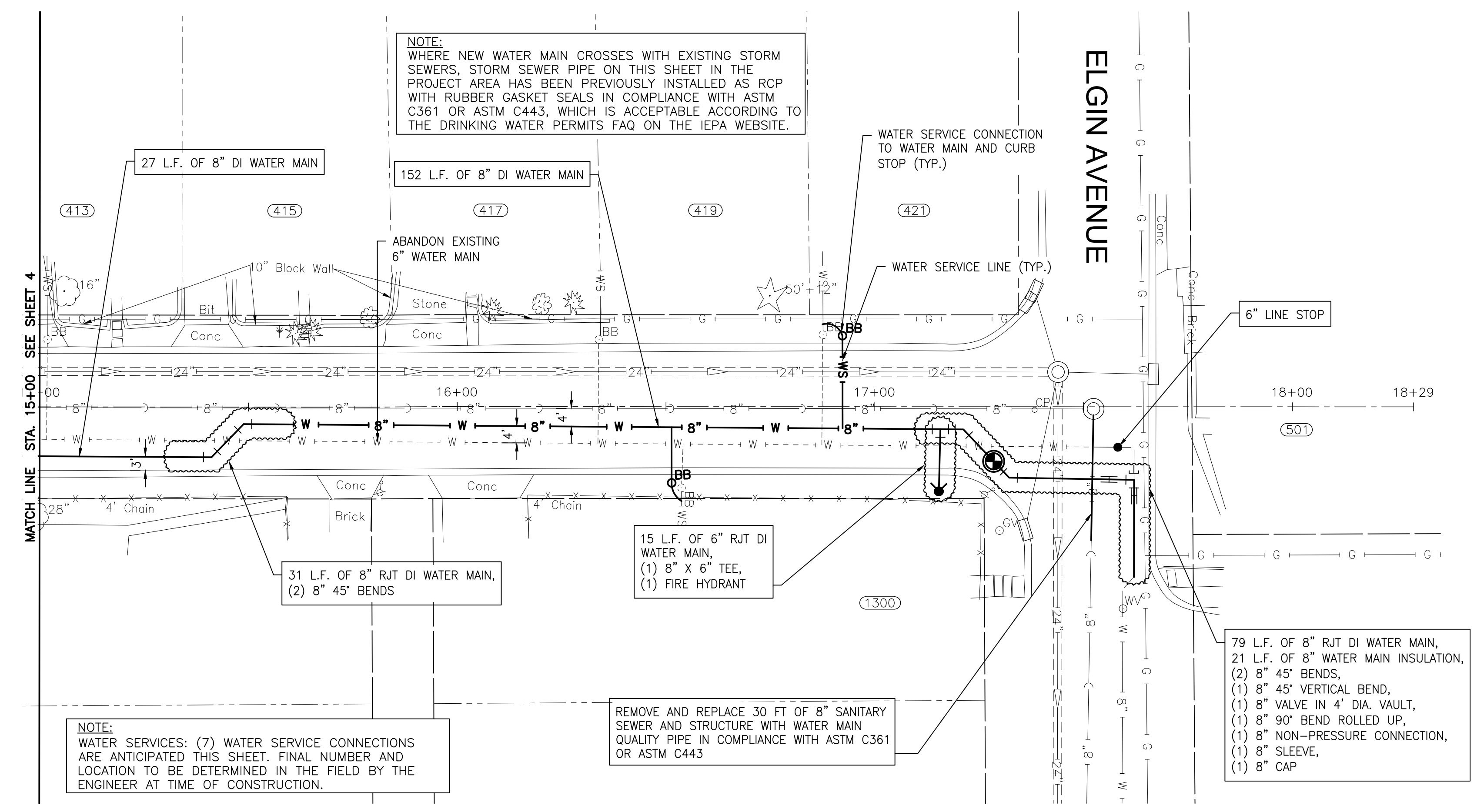
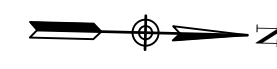
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

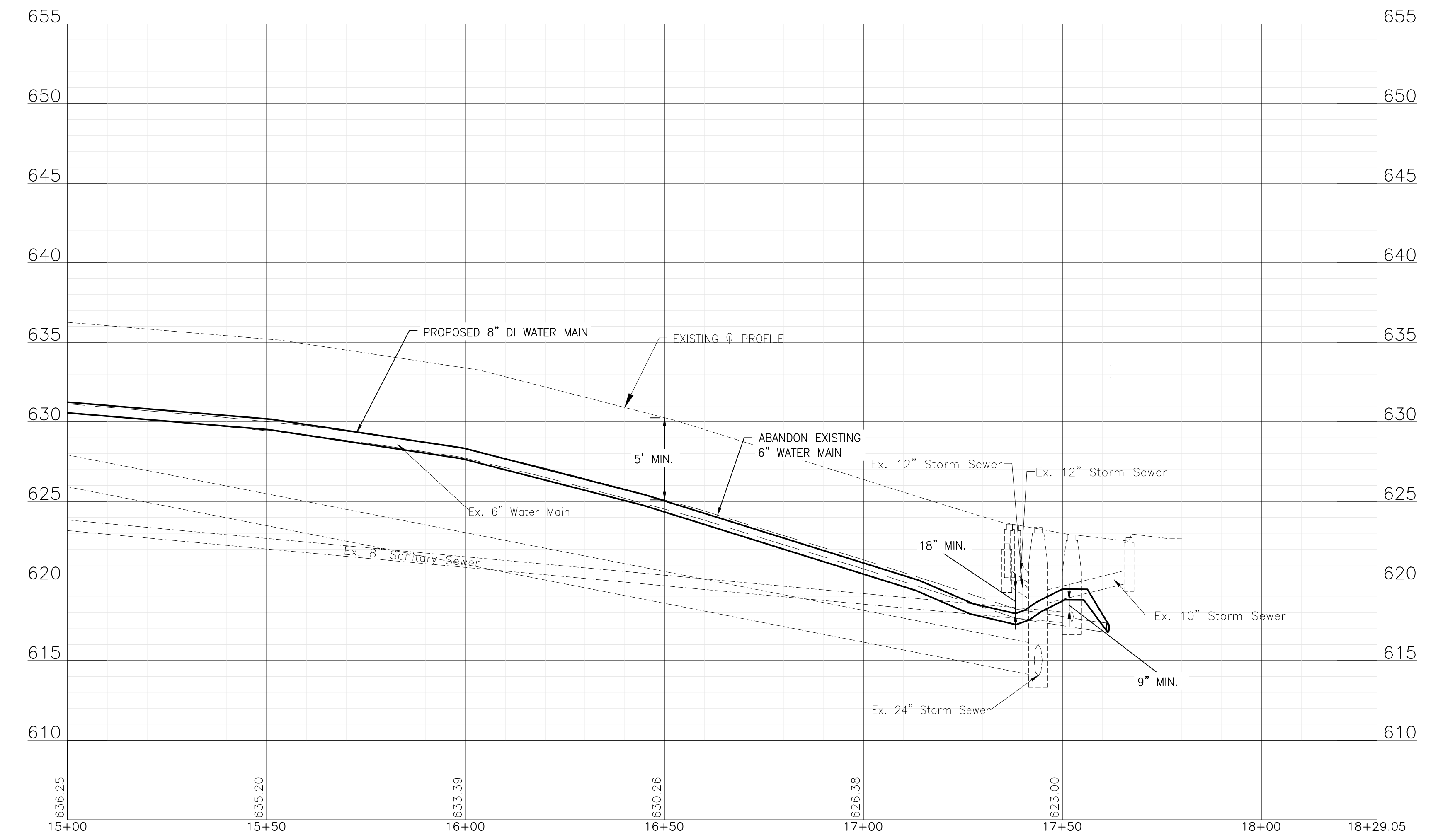
**HIGH STREET STA. 10+00 TO STA. 15+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	4
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



**HIGH STREET**



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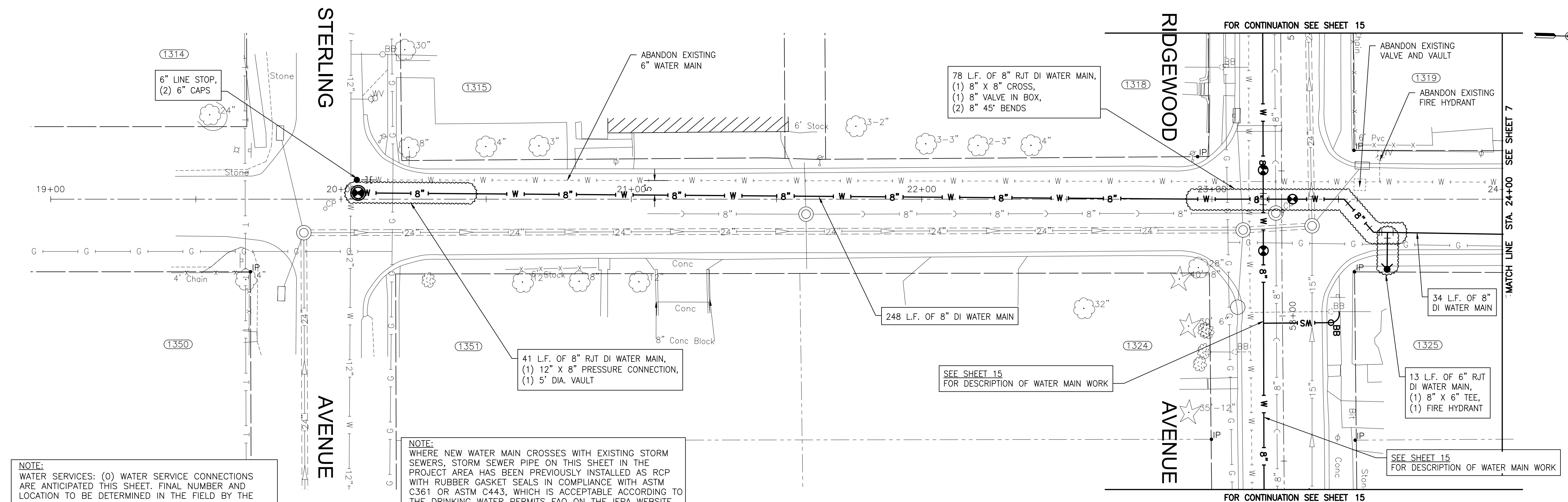
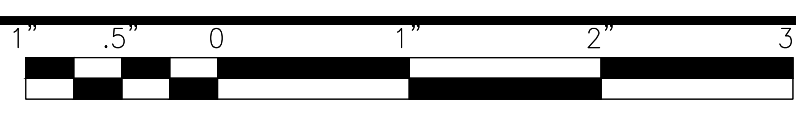
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**HIGH STREET STA. 15+00 TO STA. 18+50 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

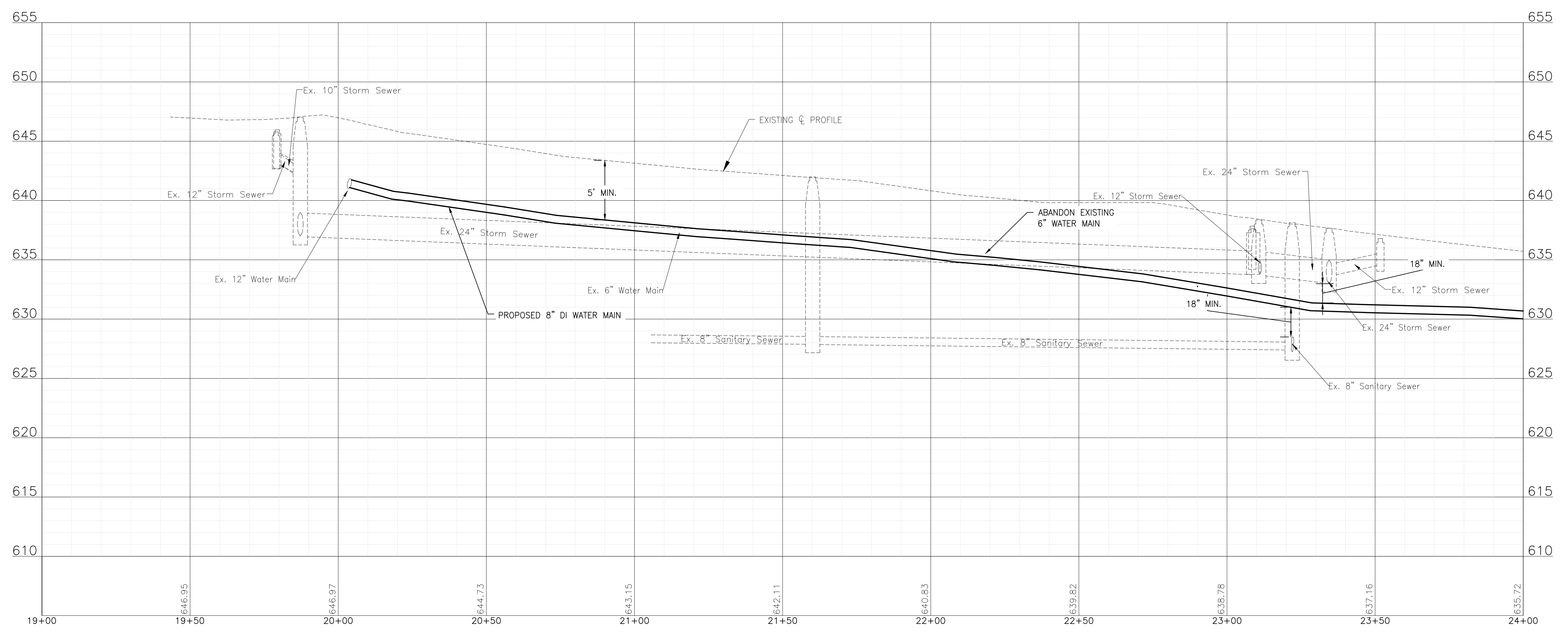
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DRAWN - JJS	20	5
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



**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.

**FAIRBANKS AVENUE**



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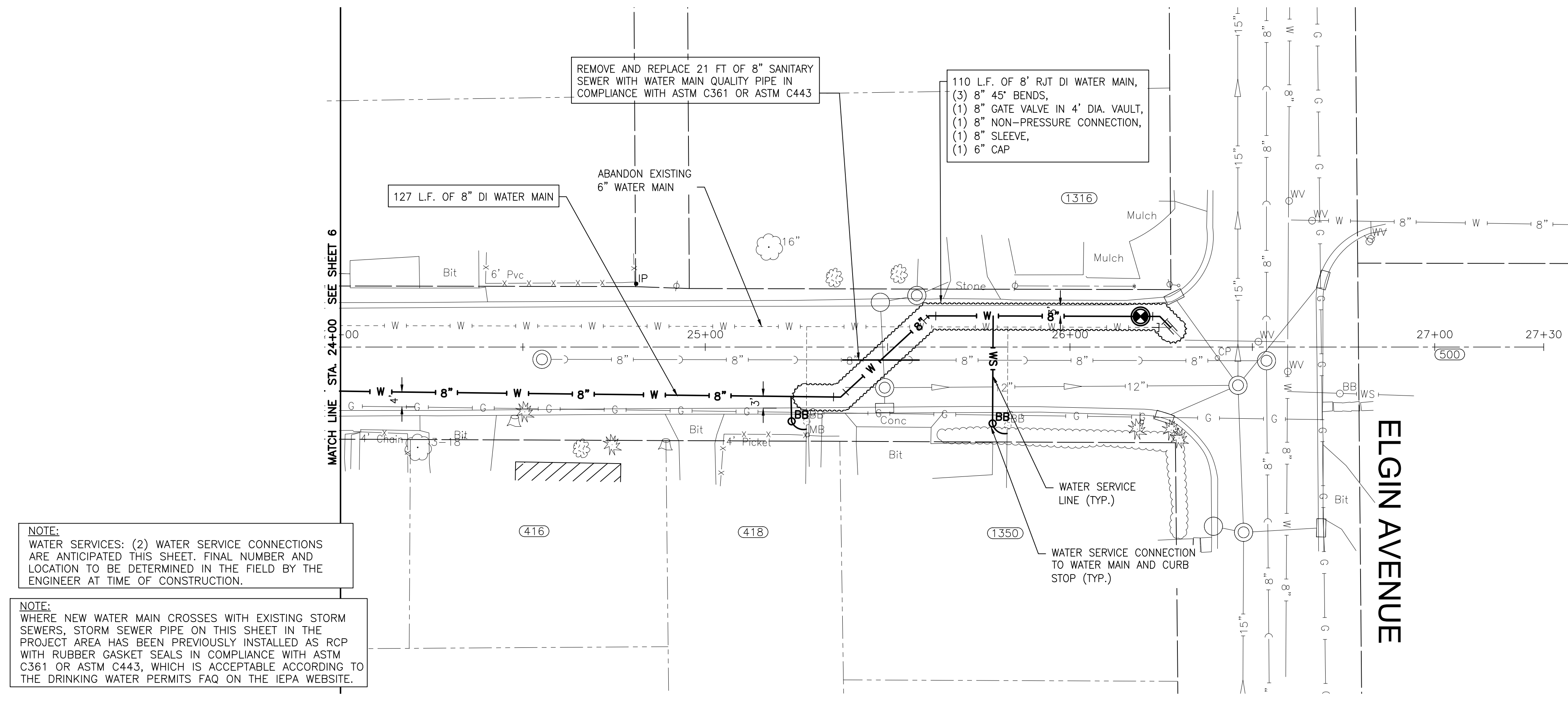


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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

<b>FAIRBANKS AVENUE STA. 19+00 TO STA. 24+00 PLAN AND PROFILE</b>	
SCALE:	HORIZ 1"=20' / VERT 1"=5'
PROJECT NO:	210039.40

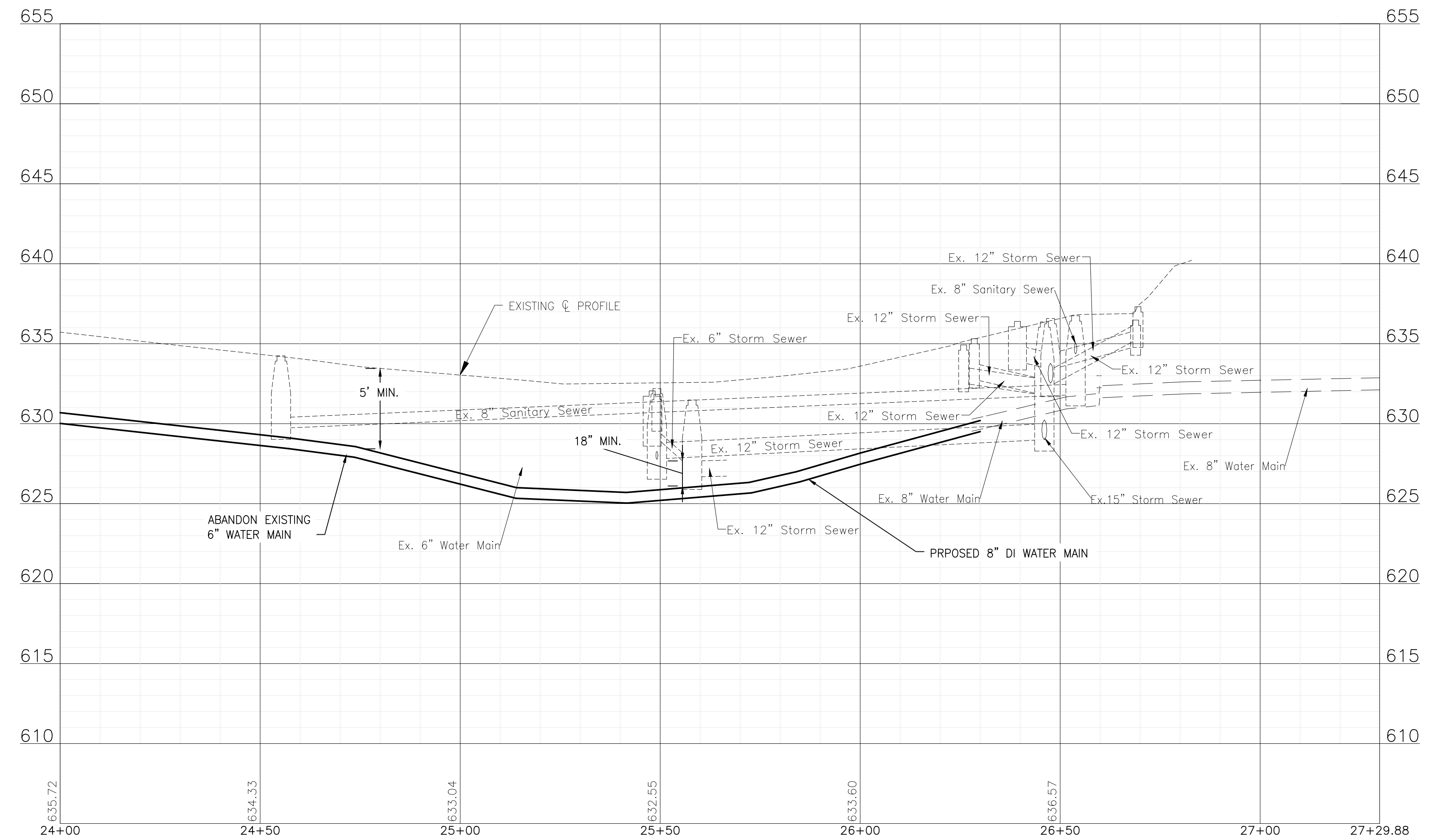
DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	6
CHECKED - LMS		
DATE - 11/18/21		



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

**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.

**FAIRBANKS AVENUE**



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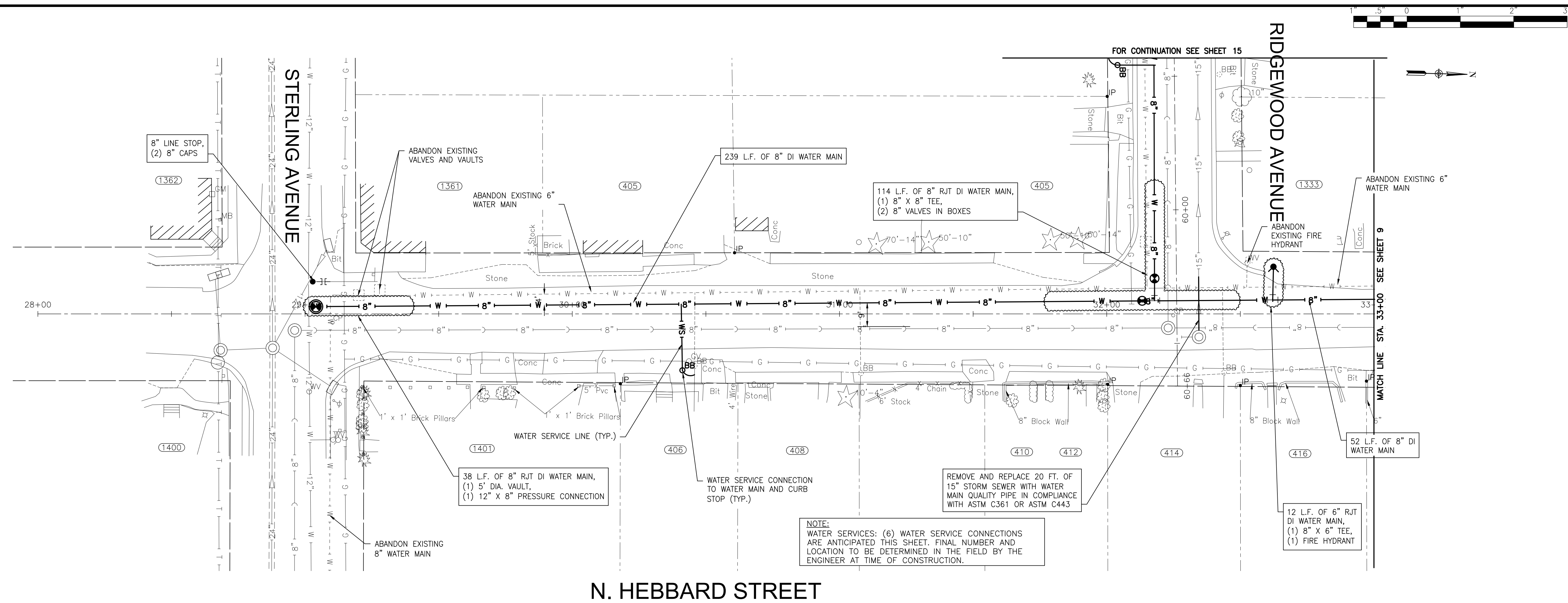
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**CITY OF JOLIET, ILLINOIS**  
**RIDGWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

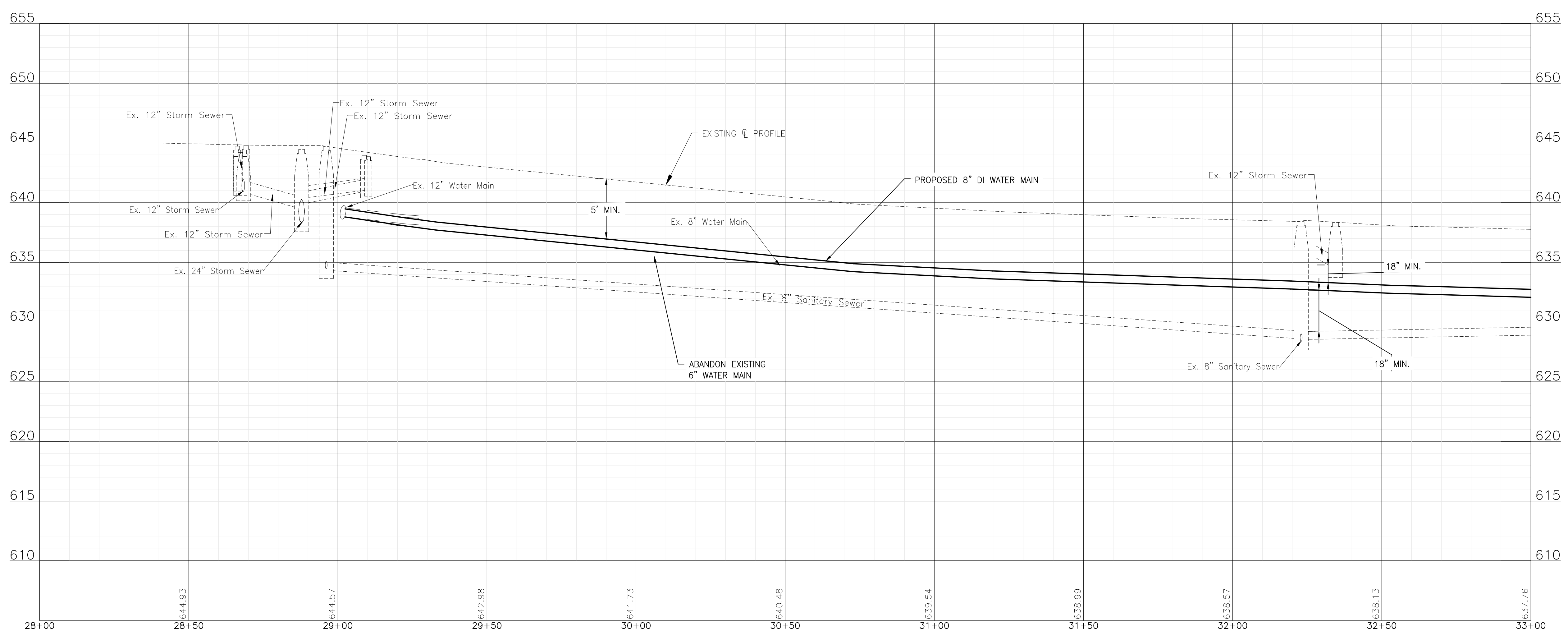
**FAIRBANKS AVENUE STA. 24+00 TO STA. 27+50 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	7
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



N. HEBBARD STREET



FINAL DESIGN FOR BIDDING

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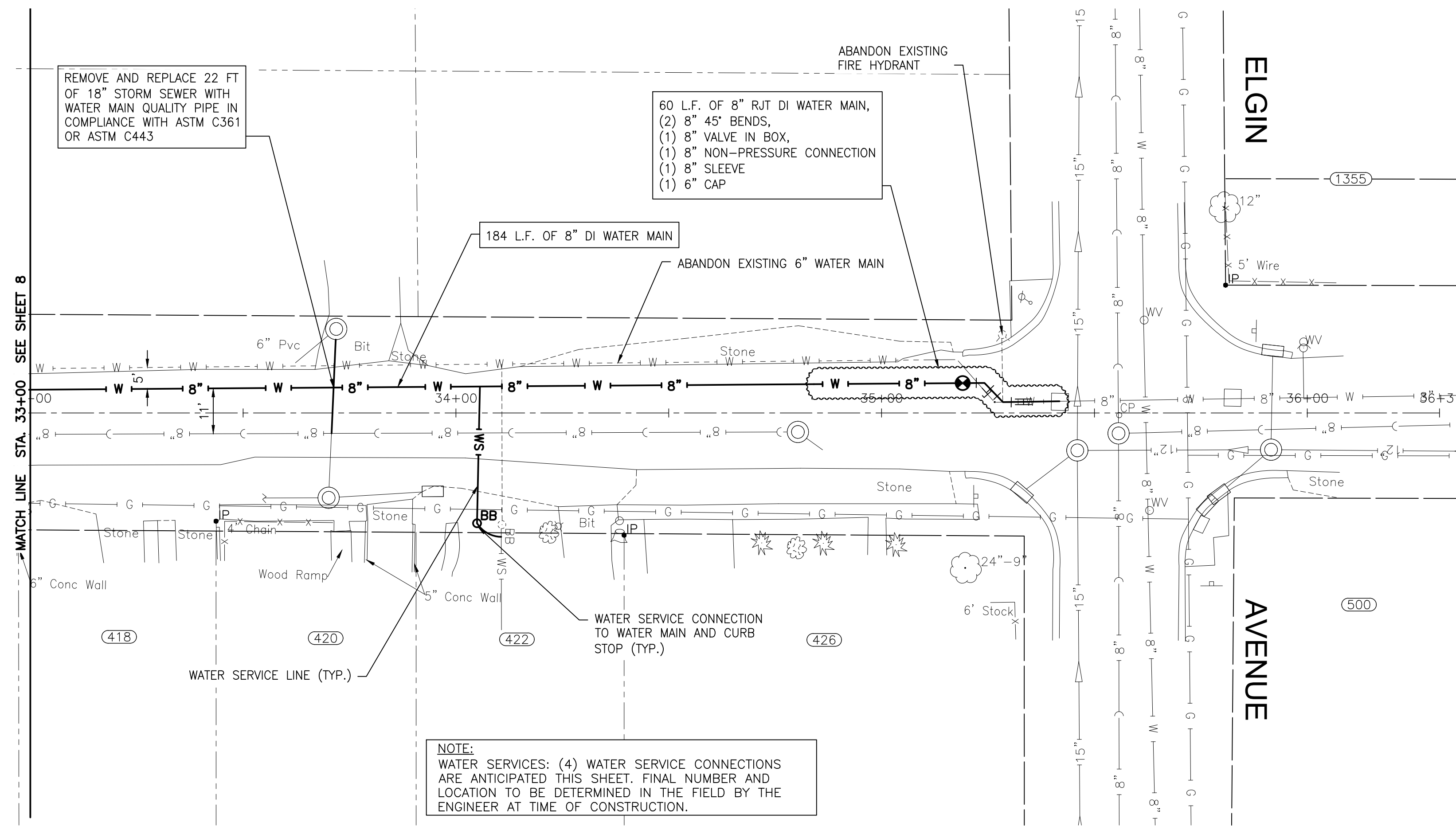
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**CITY OF JOLIET, ILLINOIS**  
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**CITY OF JOLIET CONTRACT NO. 2609-0122**

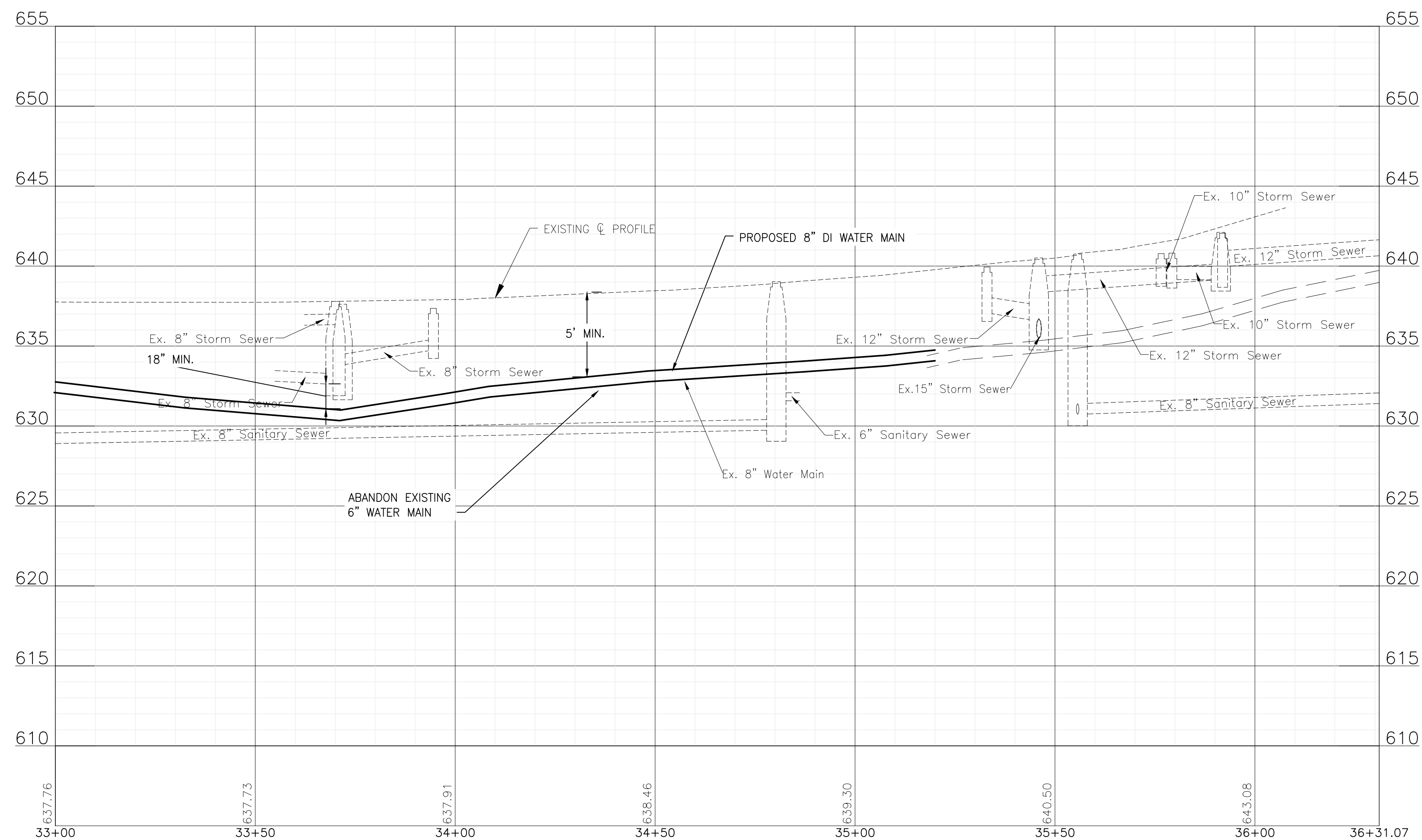
<b>NORTH HEBBARD STREET STA. 28+00 TO STA. 33+00 PLAN AND PROFILE</b>	
SCALE:	HORIZ 1"=20' / VERT 1"=5'
PROJECT NO:	210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	8
CHECKED - LMS		
DATE - 11/18/21		





N. HEBBARD STREET



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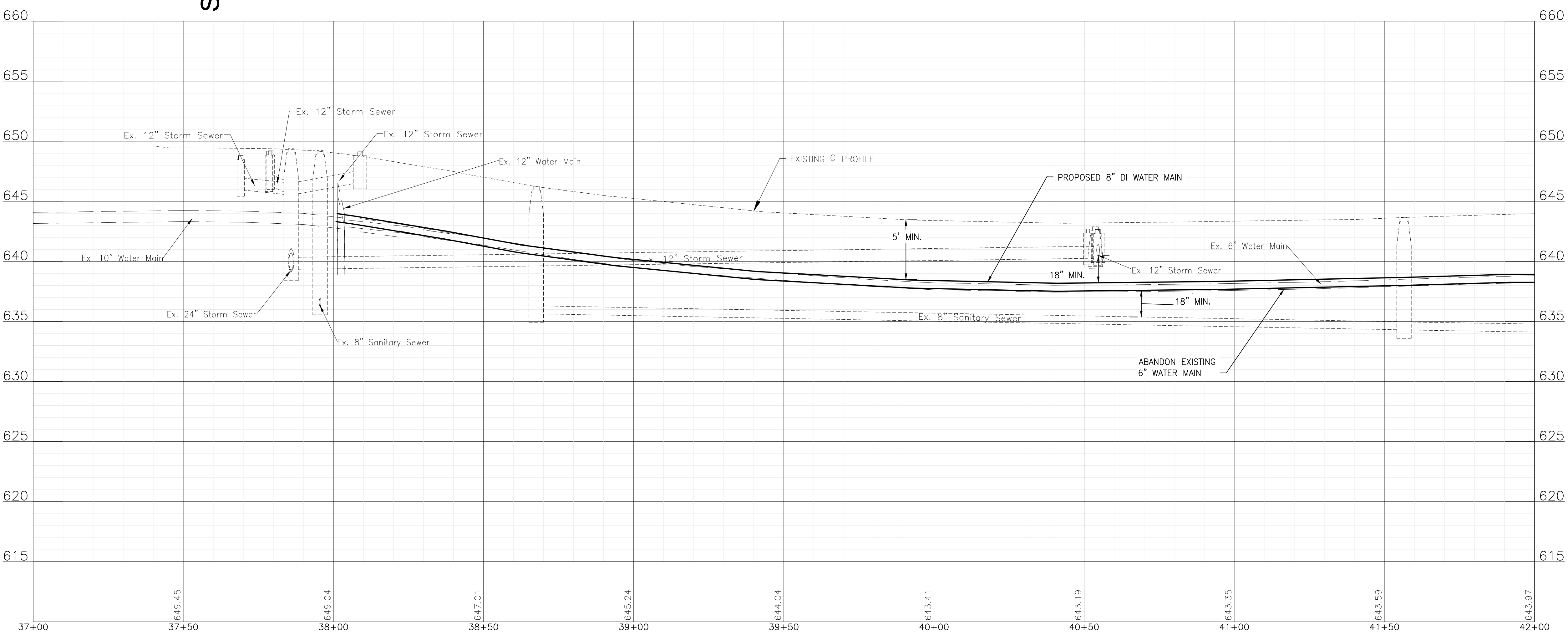
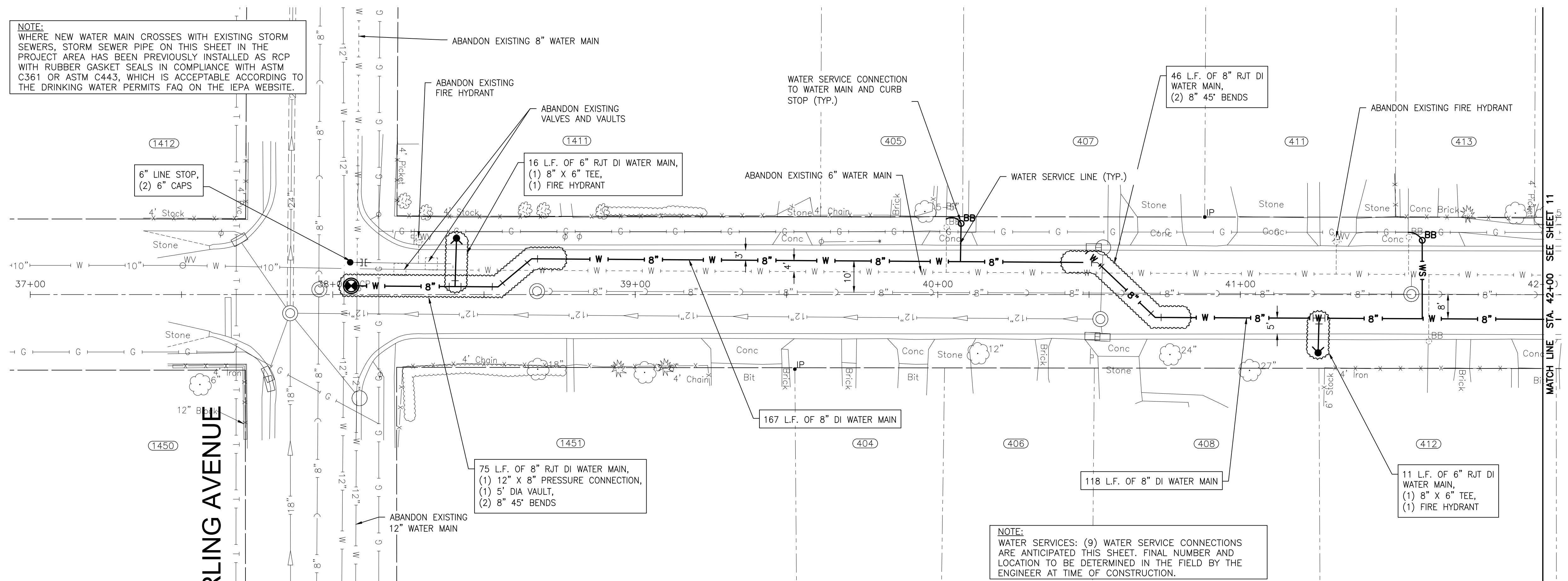
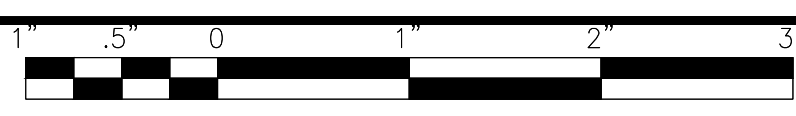
**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**NORTH HEBBARD STREET STA. 33+00 TO STA. 36+50 PLAN AND PROFILE**

SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	9
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



NOTE:  
WATER SERVICES: (9) WATER SERVICE CONNECTIONS ARE ANTICIPATED THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER AT TIME OF CONSTRUCTION.

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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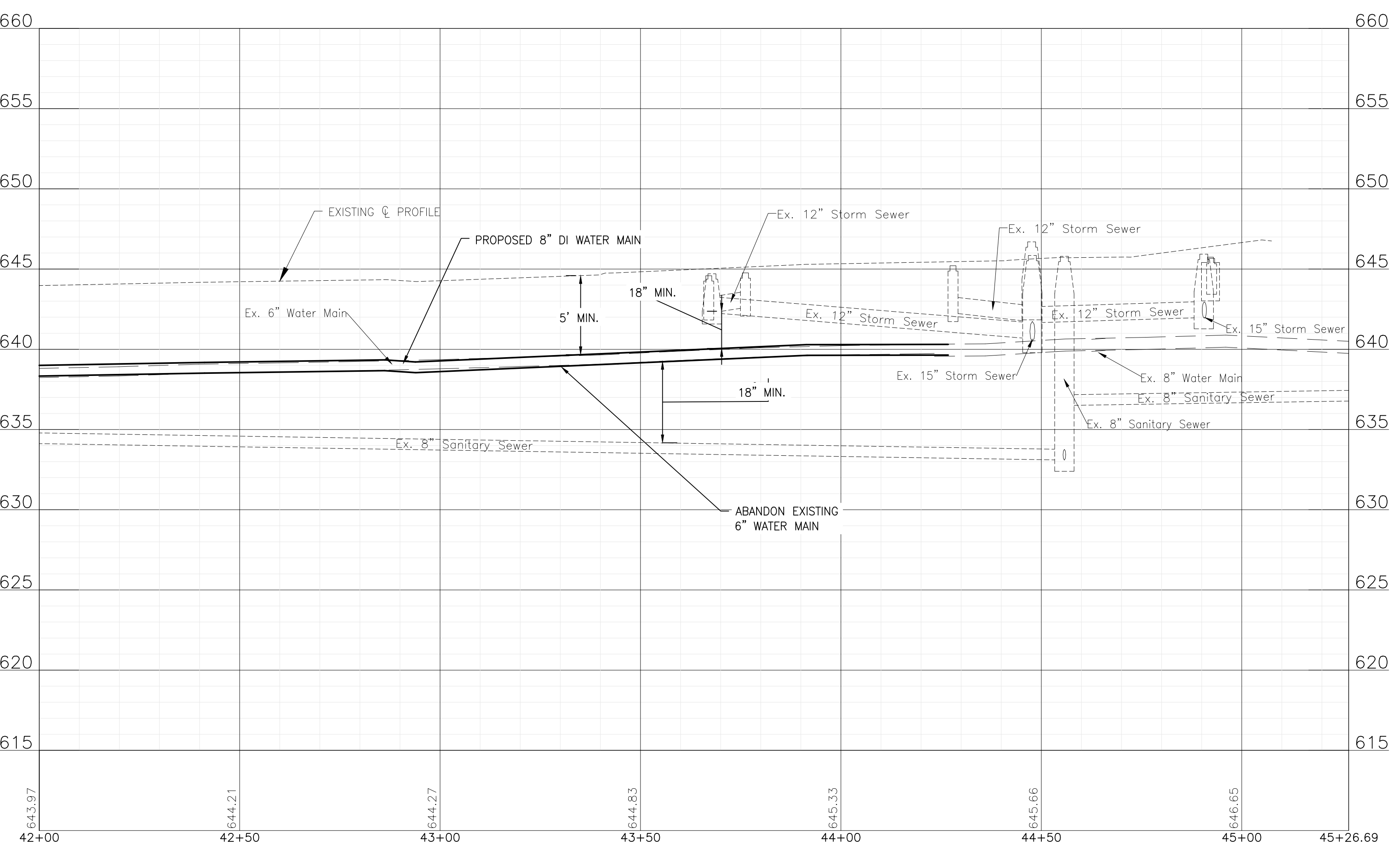
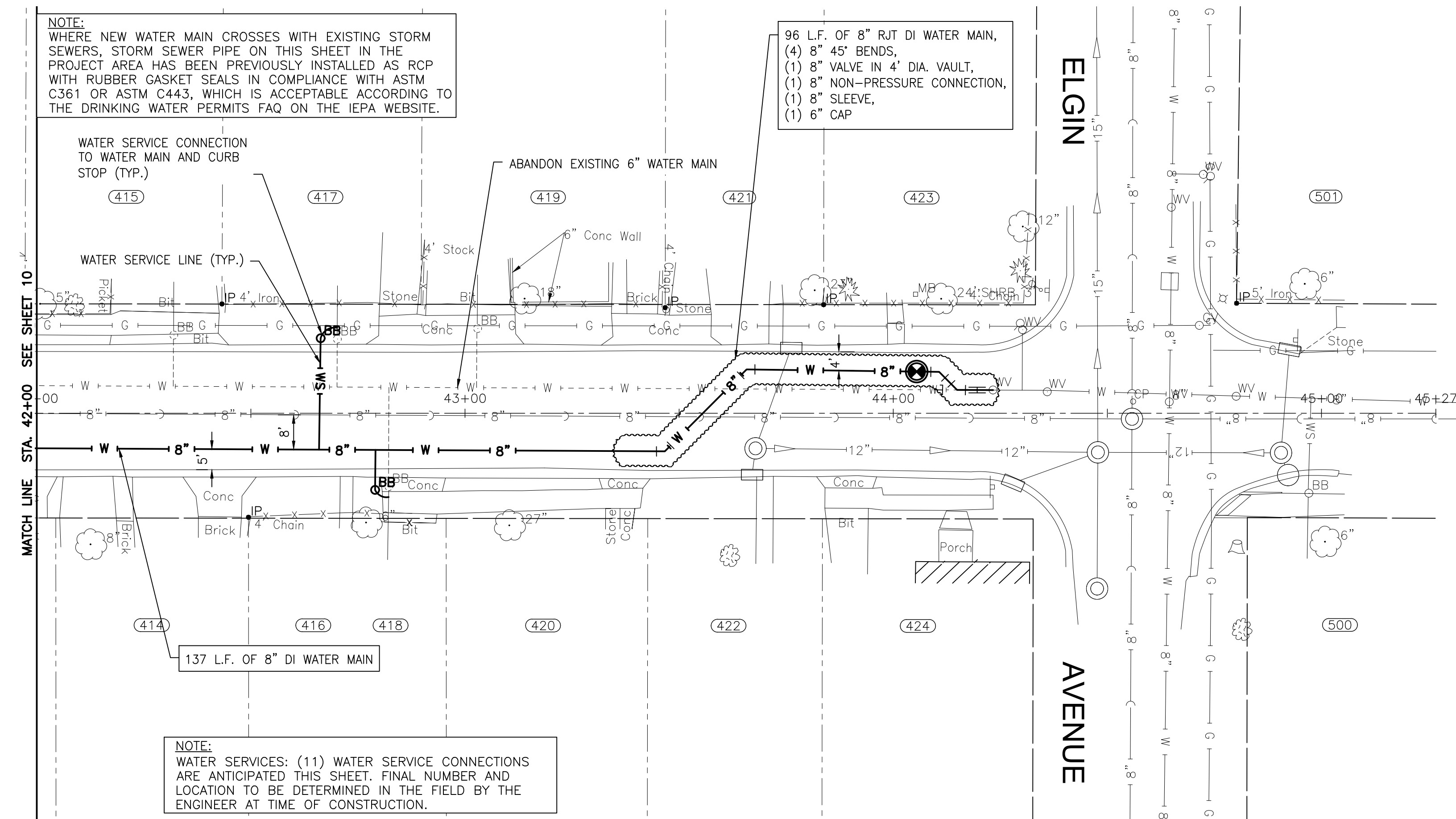
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**KRAKAR AVENUE STA. 37+00 TO STA. 42+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	10
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



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.

96 L.F. OF 8" RJT DI WATER MAIN,  
(4) 8" 45° BENDS,  
(1) 8" VALVE IN 4' DIA. VAULT,  
(1) 8" NON-PRESSURE CONNECTION,  
(1) 8" SLEEVE,  
(1) 6" CAP

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

**KRAKAR AVENUE**

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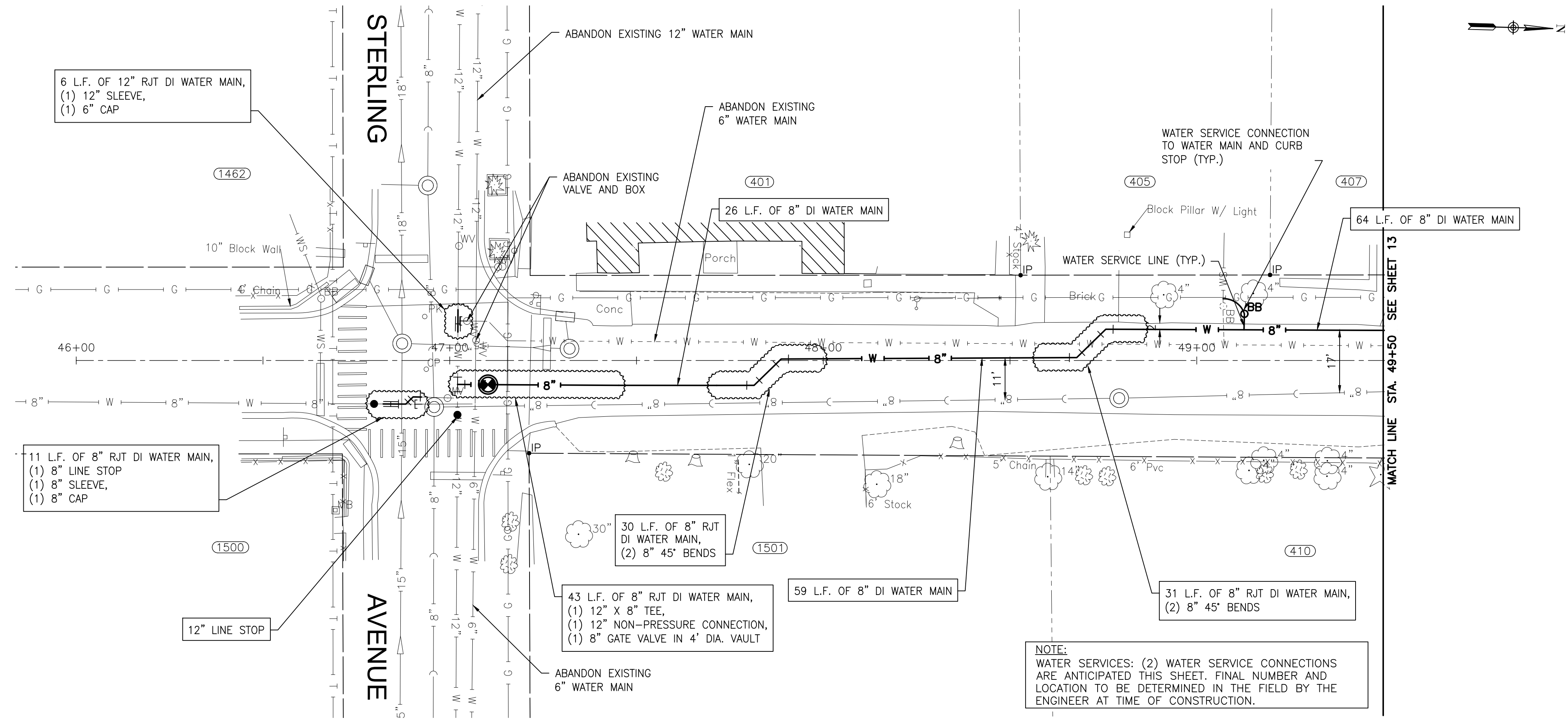
**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**KRAKAR AVENUE STA. 42+00 TO STA. 45+50 PLAN AND PROFILE**

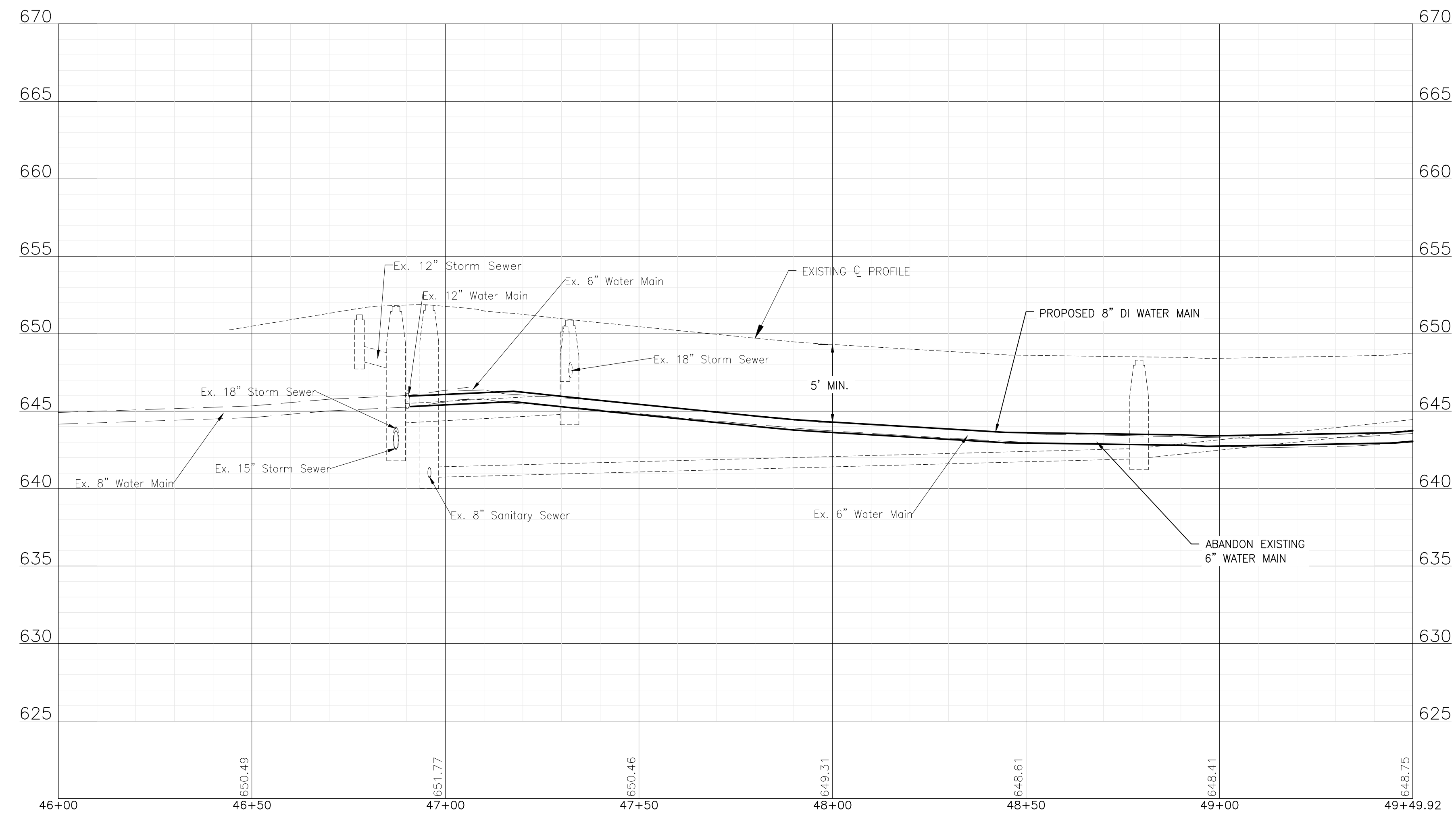
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PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	11
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



SCRIBNER STREET



FINAL DESIGN FOR BIDDING

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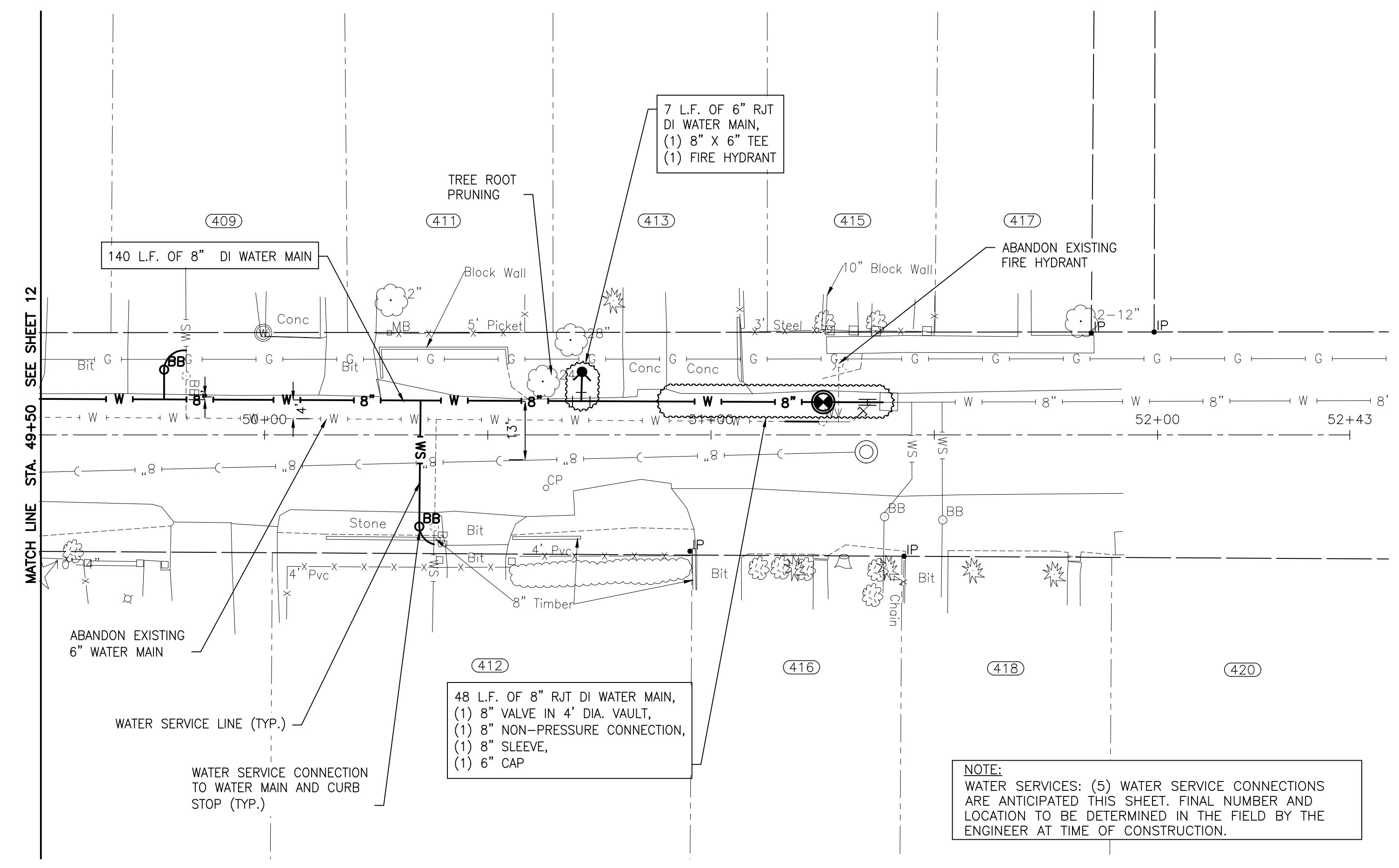
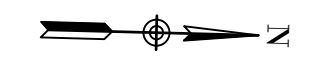
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**CITY OF JOLIET, ILLINOIS**  
**RIDGWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

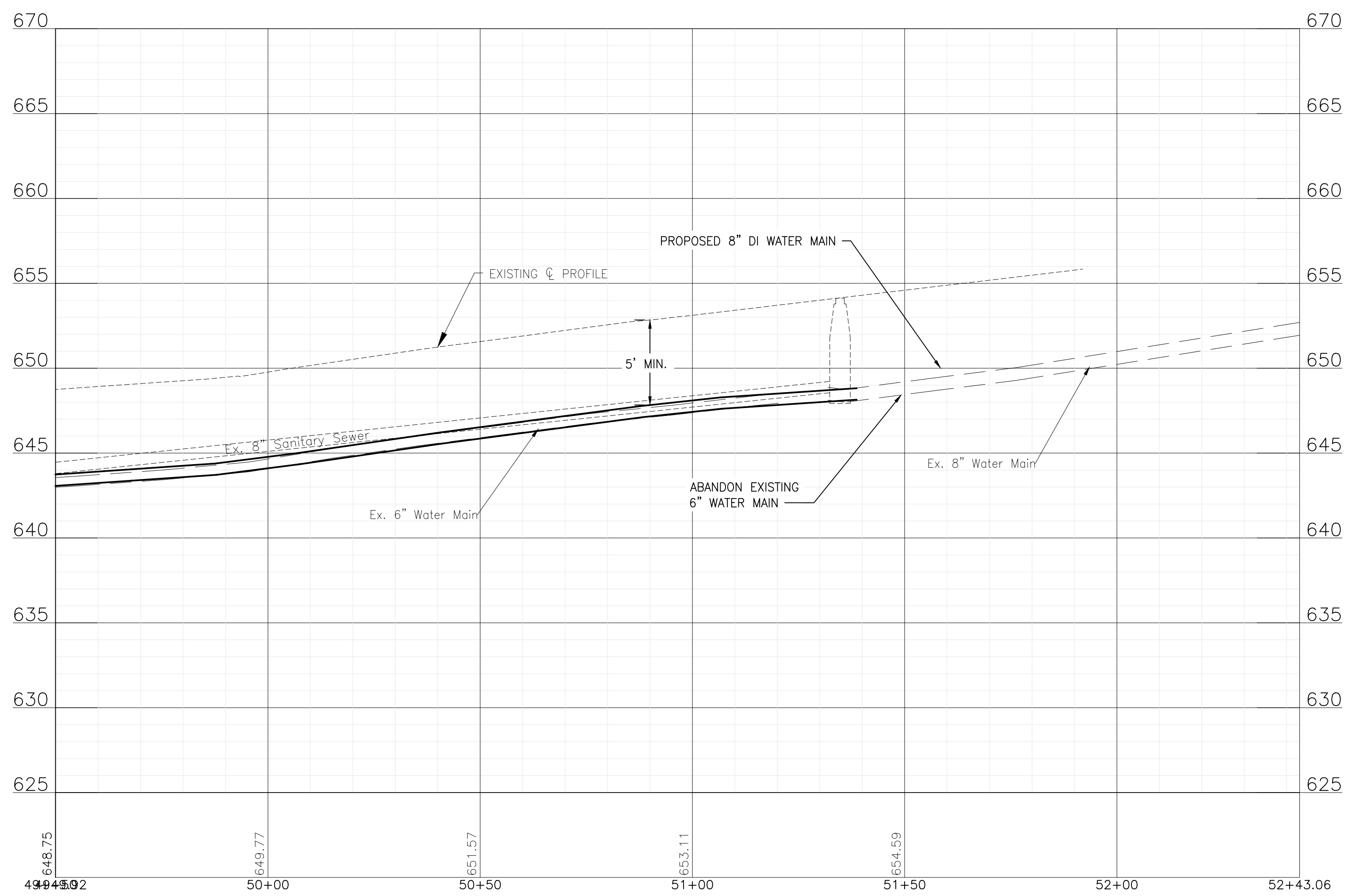
**SCRIBNER STREET STA. 46+00 TO STA. 49+50 PLAN AND PROFILE**

SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	12
CHECKED - LMS		
DATE - 11/18/21		



**SCRIBNER STREET**



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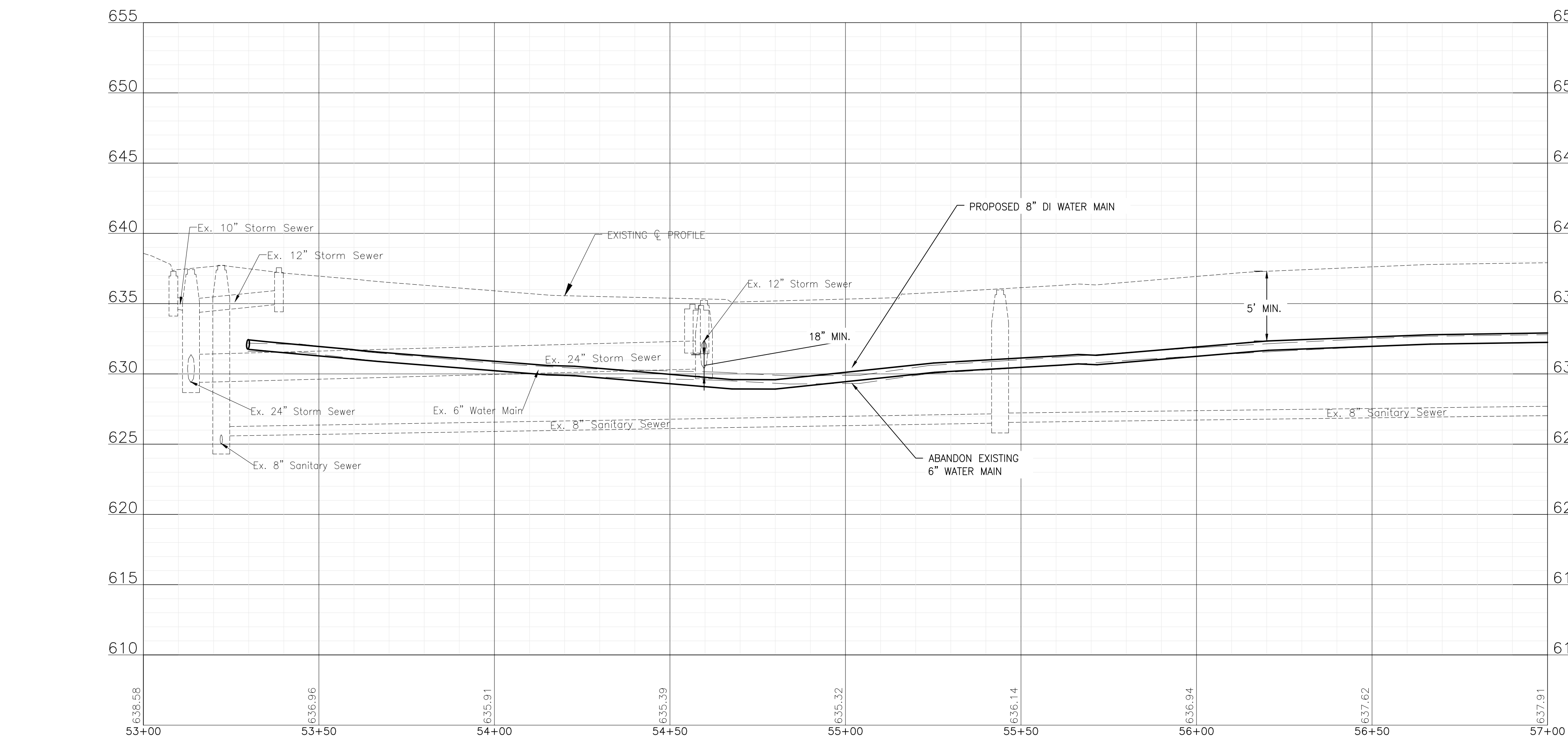
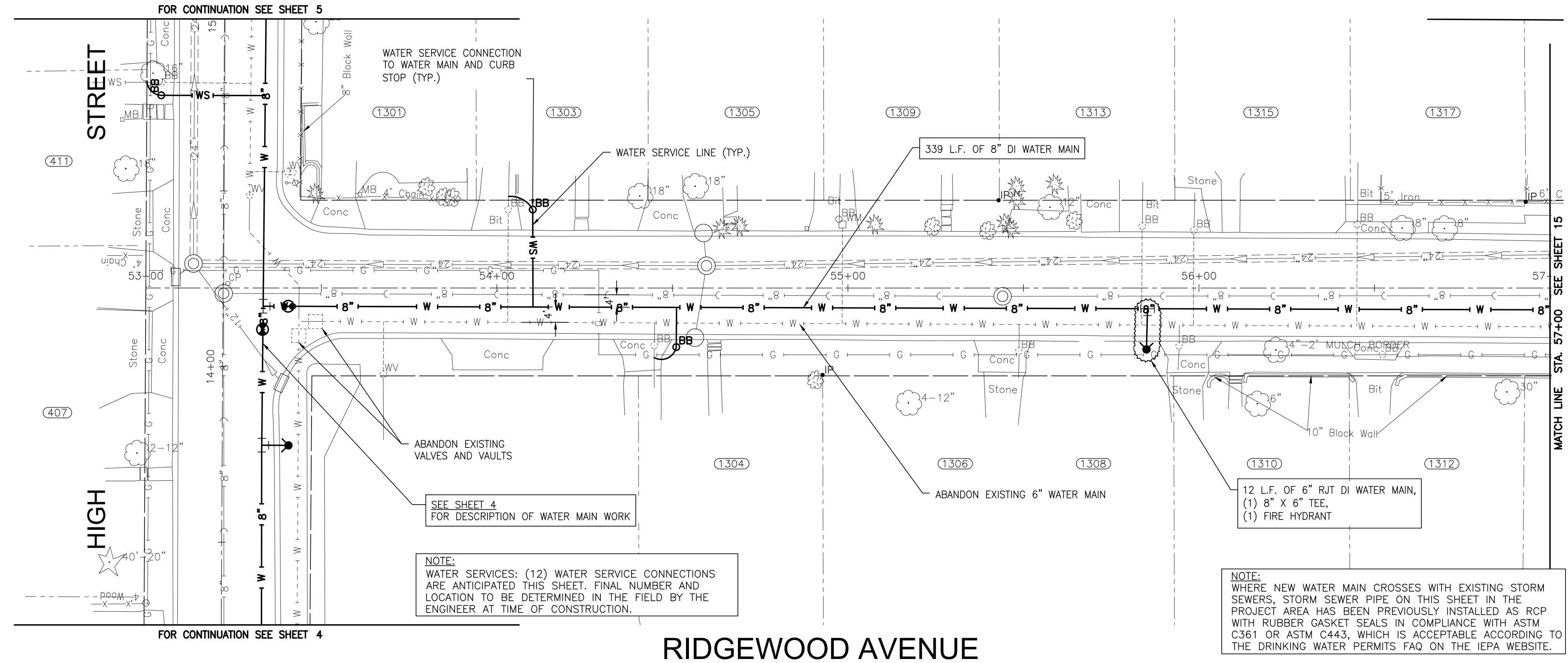
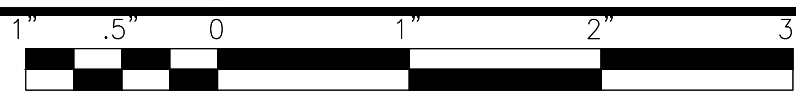
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**SCRIBNER STREET STA. 49+50 TO STA. 52+50 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	13
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



NOTE:  
WATER SERVICES: (12) WATER SERVICE CONNECTIONS  
ARE ANTICIPATED THIS SHEET. FINAL NUMBER AND  
LOCATION TO BE DETERMINED IN THE FIELD BY THE  
ENGINEER AT TIME OF CONSTRUCTION.

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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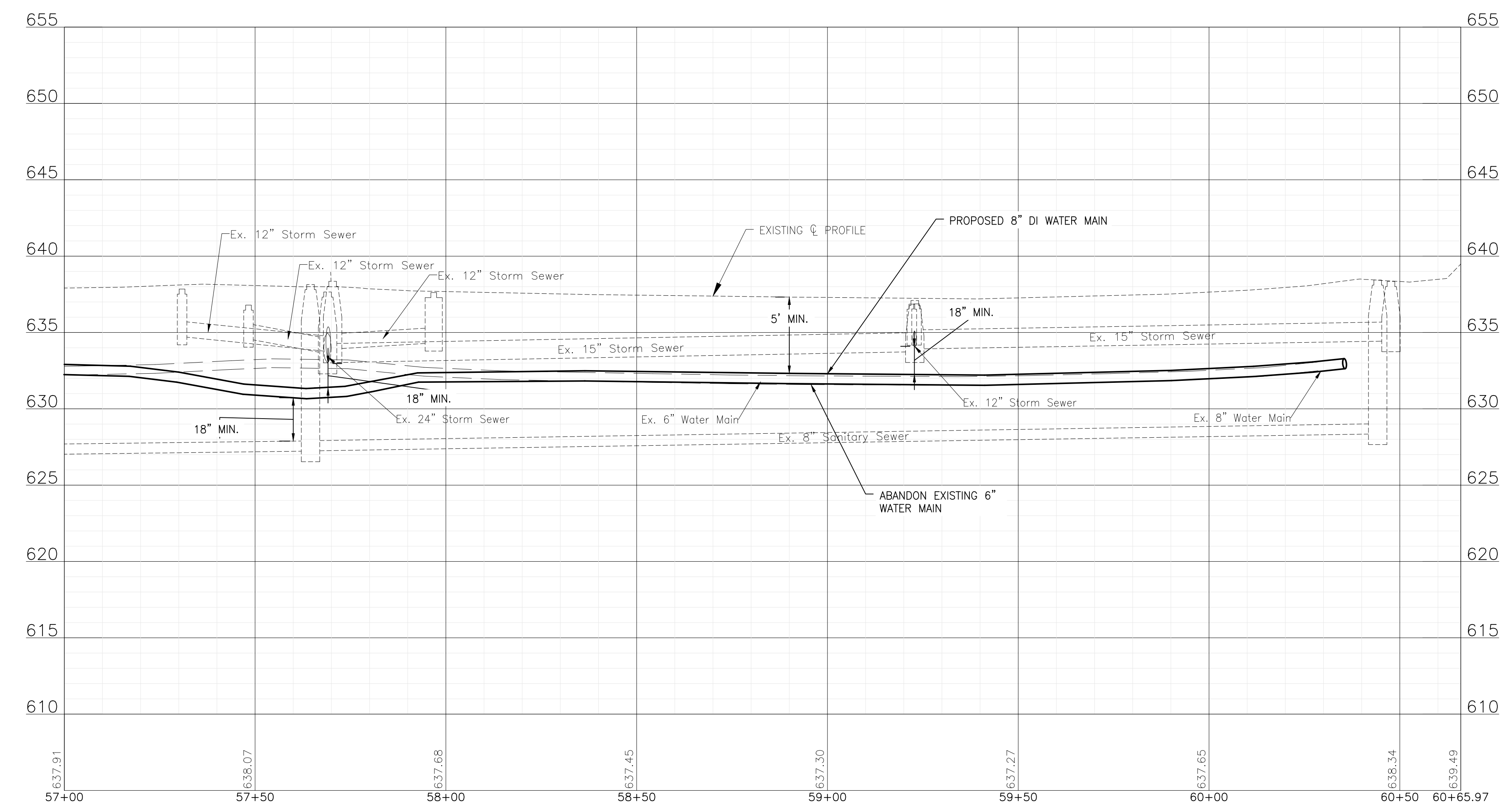
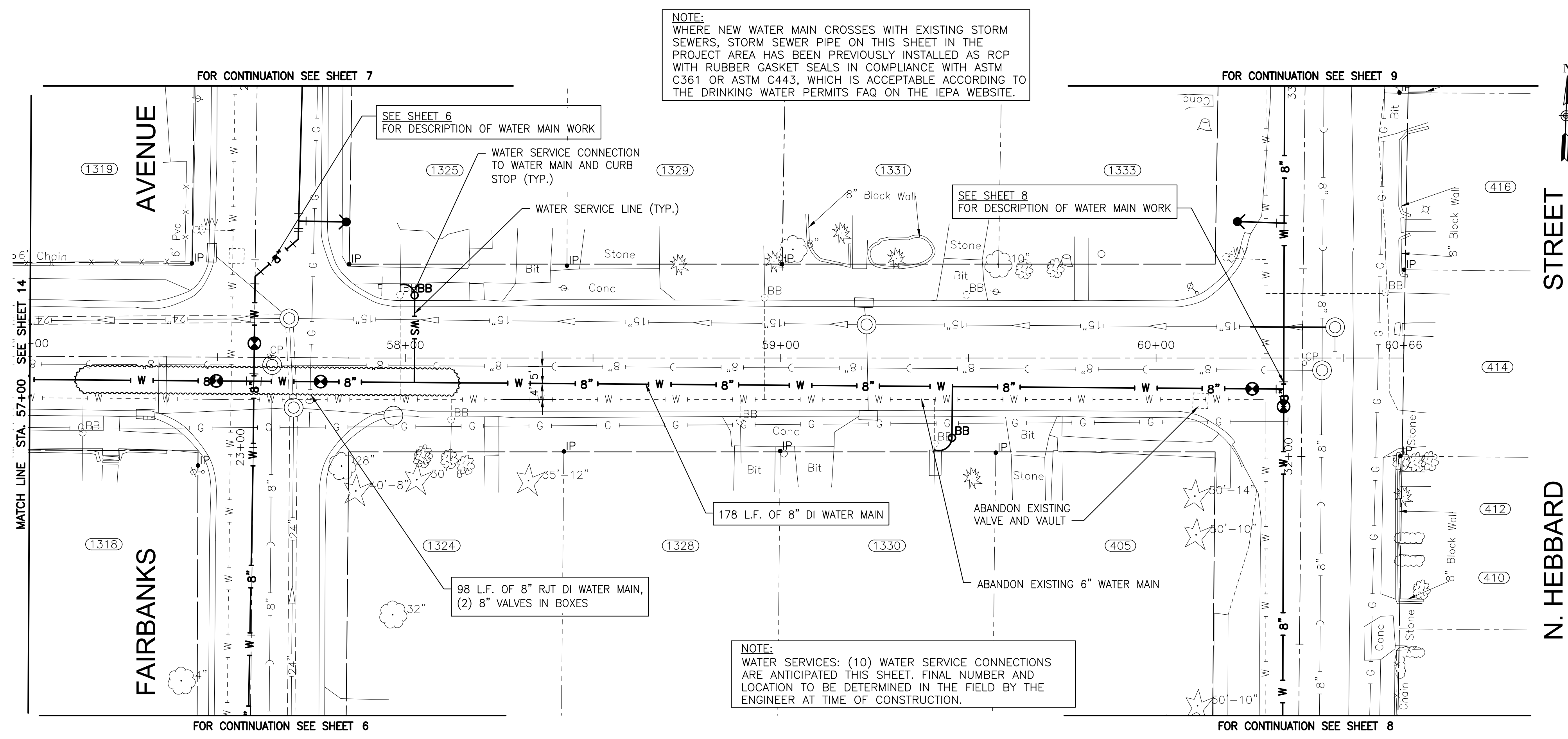
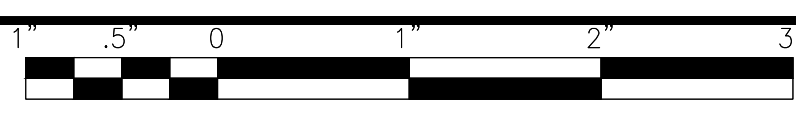
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**RIDGEWOOD AVENUE STA. 53+00 TO STA. 57+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	14
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



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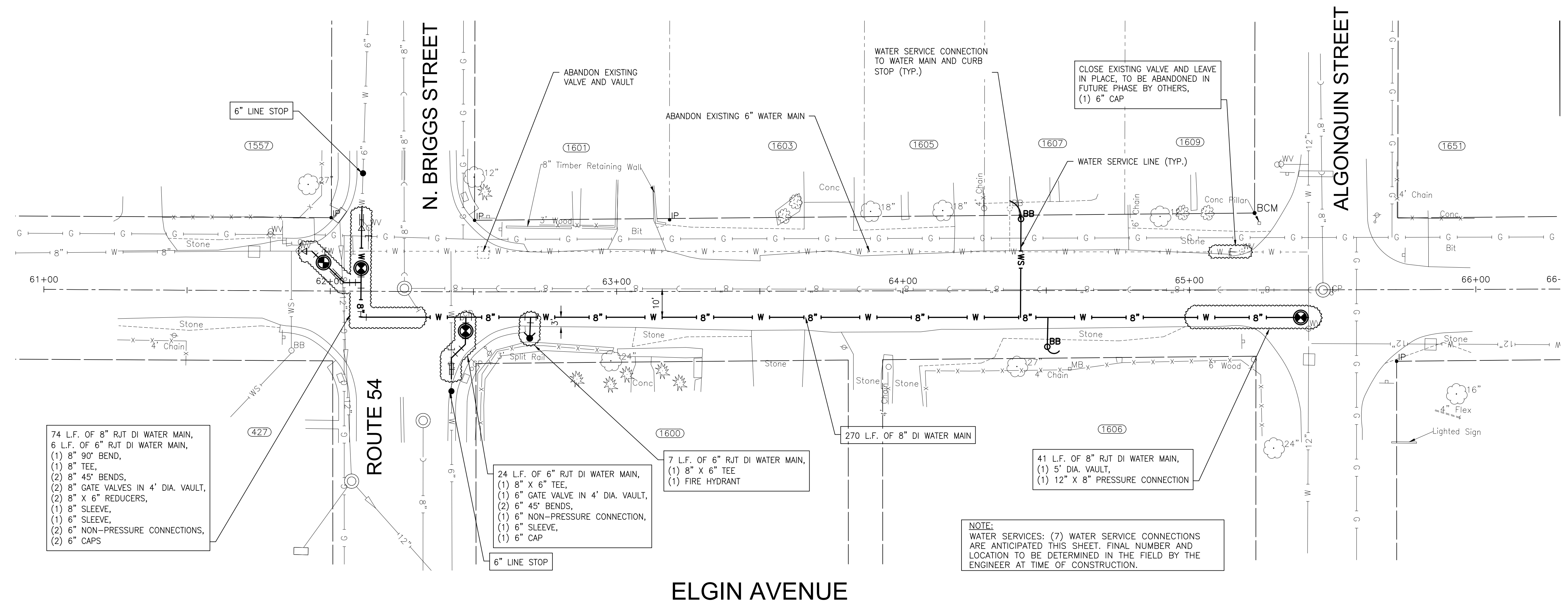
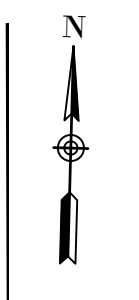
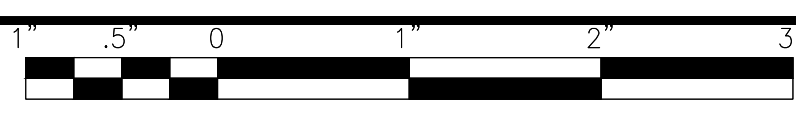
CONSULTANTS	REVISED -
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**RIDGEWOOD AVENUE STA. 57+00 TO STA. 60+70 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	15
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



74 L.F. OF 8" RJT DI WATER MAIN,  
 6 L.F. OF 6" RJT DI WATER MAIN,  
 (1) 8" 90° BEND,  
 (1) 8" TEE,  
 (2) 8" 45° BENDS,  
 (2) 8" GATE VALVES IN 4' DIA. VAULT,  
 (2) 8" X 6" REDUCERS,  
 (1) 8" SLEEVE,  
 (1) 6" SLEEVE,  
 (2) 6" NON-PRESSURE CONNECTIONS,  
 (2) 6" CAPS

24 L.F. OF 6" RJT DI WATER MAIN,  
 (1) 8" X 6" TEE,  
 (1) 6" GATE VALVE IN 4' DIA. VAULT,  
 (2) 6" 45° BENDS,  
 (1) 6" NON-PRESSURE CONNECTION,  
 (1) 6" SLEEVE,  
 (1) 6" CAP

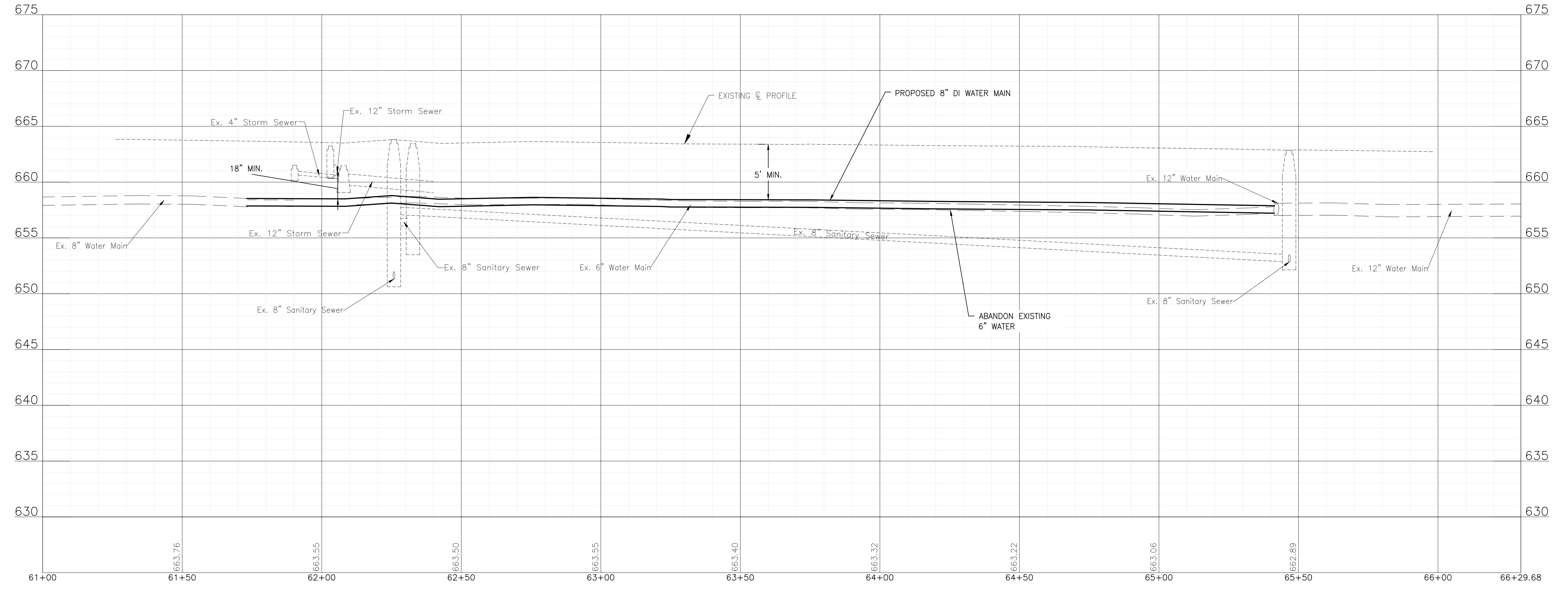
7 L.F. OF 6" RJT DI WATER MAIN,  
 (1) 8" X 6" TEE  
 (1) FIRE HYDRANT

270 L.F. OF 8" DI WATER MAIN

41 L.F. OF 8" RJT DI WATER MAIN,  
 (1) 5' DIA. VAULT,  
 (1) 12" X 8" PRESSURE CONNECTION

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

**ELGIN AVENUE**



I:\AZURE\JOLIET\210039-2022 WATER MAIN\CAD\RIDGEWOOD PH 3\DWG\CURRENT\210039 DESIGN-SHEETS\_RIDGEWOOD PH3 C3D16.DWG ELGIN AVE  
 Plotted: 11/10/2021 8:40 AM By: ANACINO  
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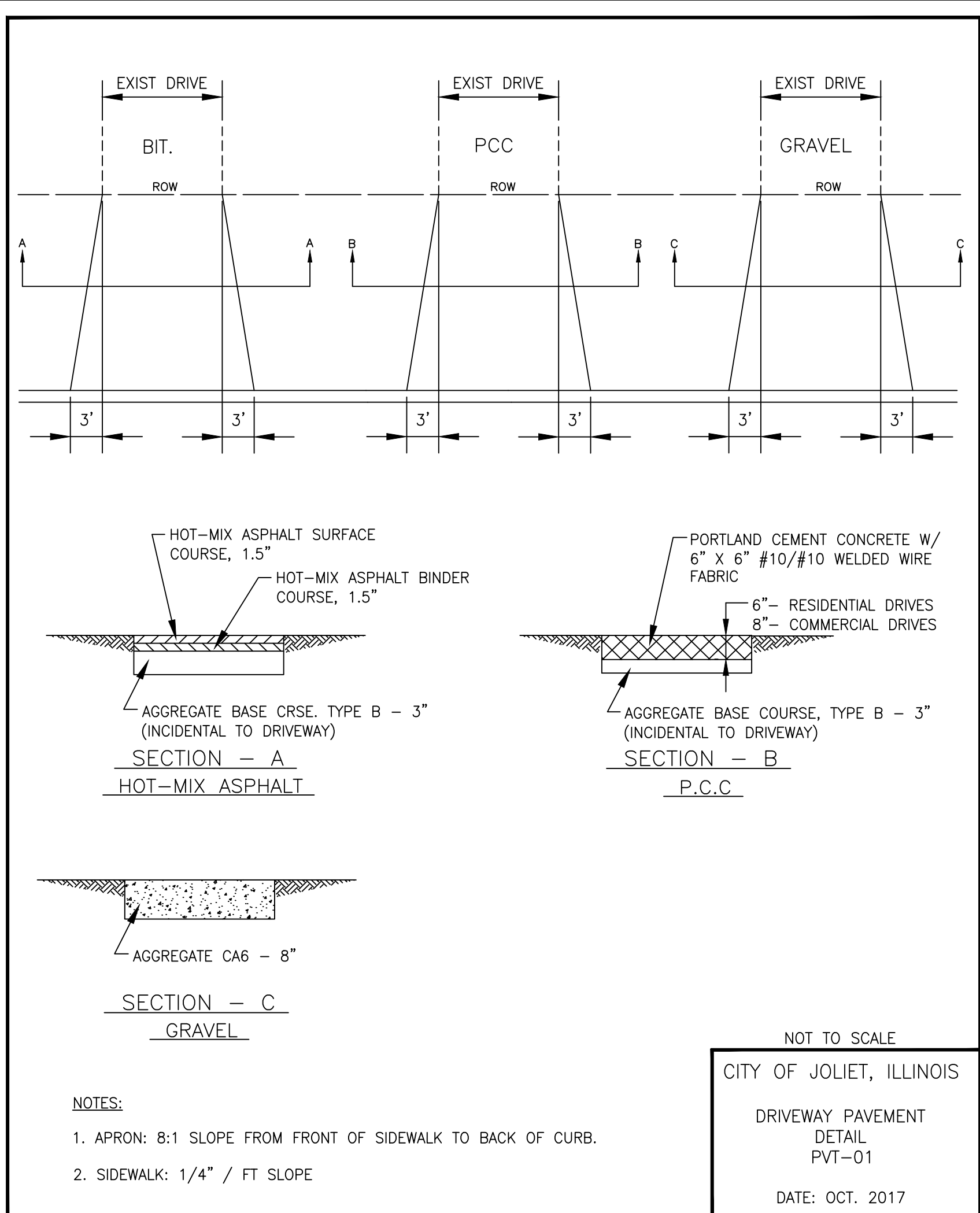
**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

**ELGIN AVENUE STA. 61+00 TO STA. 67+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

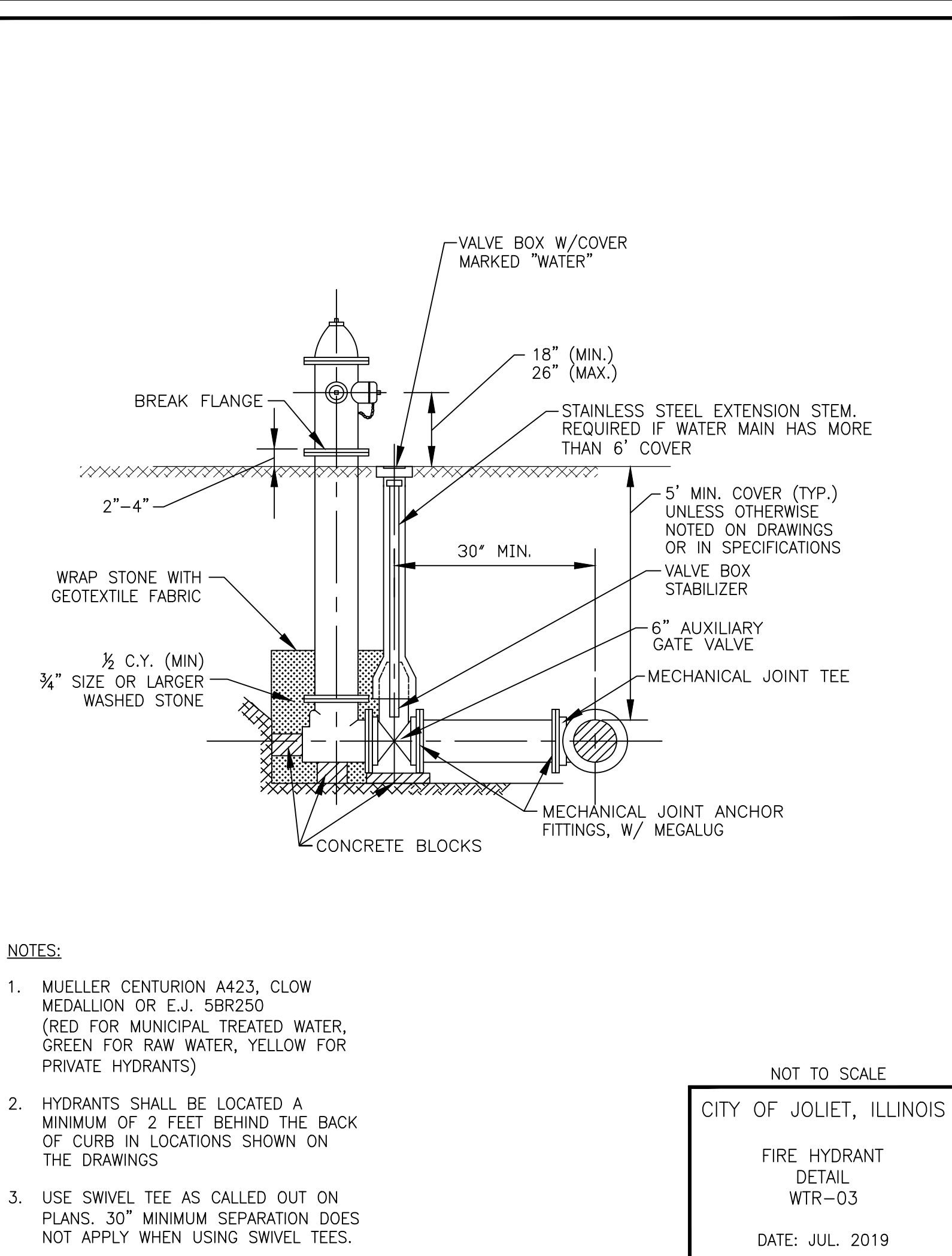
DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	16
CHECKED - LMS		
DATE - 11/18/21		

**FINAL DESIGN FOR BIDDING**

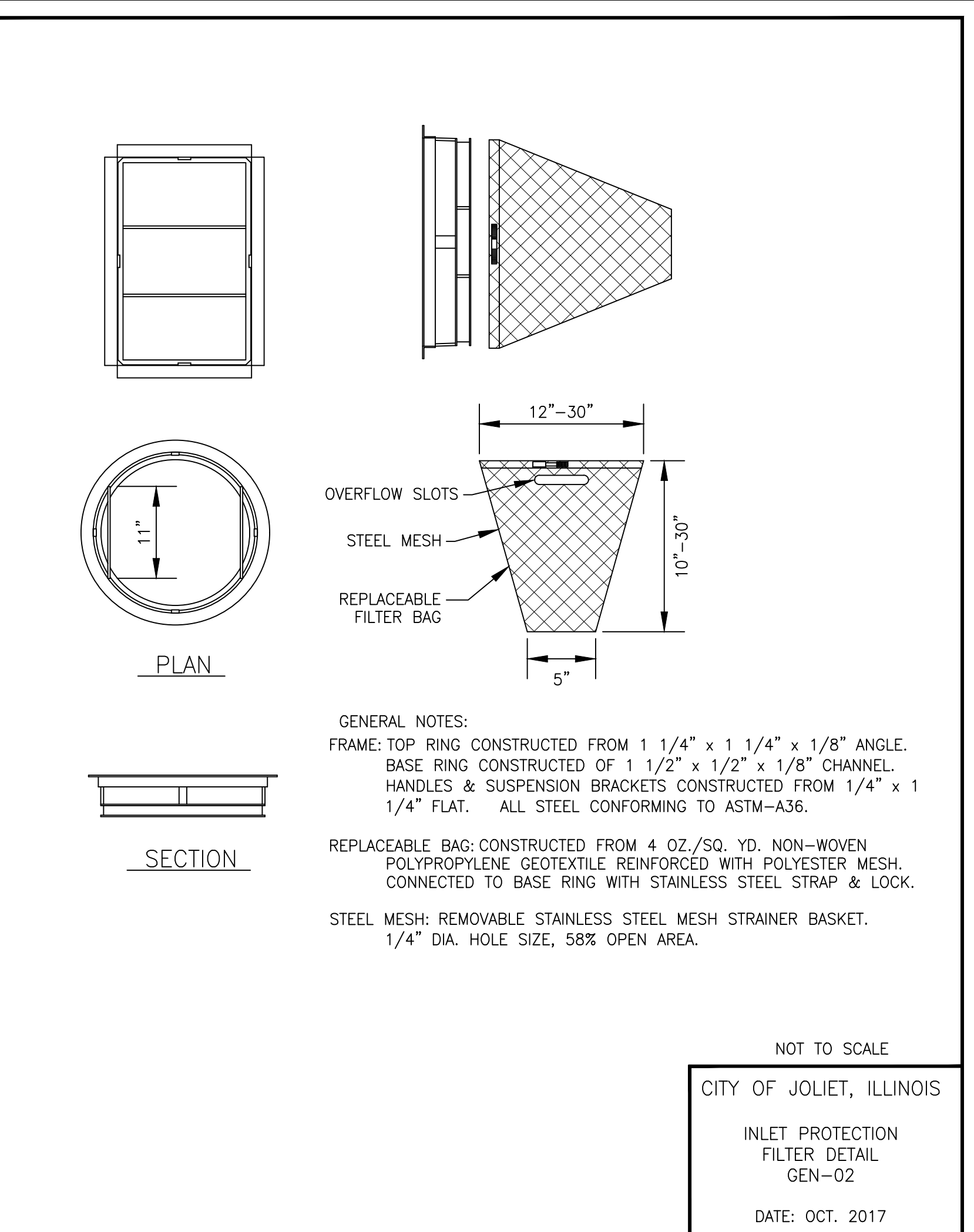




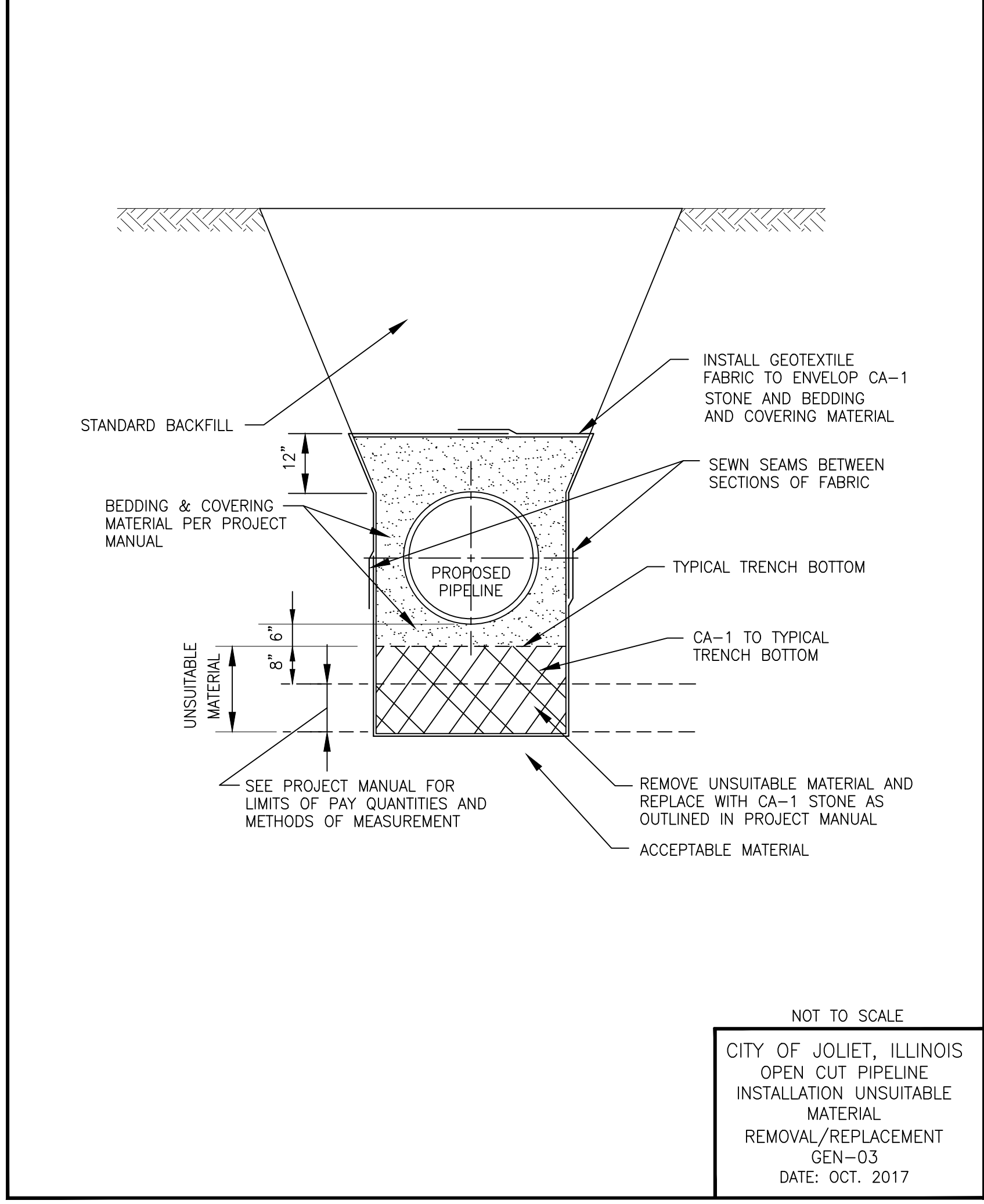
- NOTES:
- APRON: 8:1 SLOPE FROM FRONT OF SIDEWALK TO BACK OF CURB.
  - SIDEWALK: 1/4" / FT SLOPE



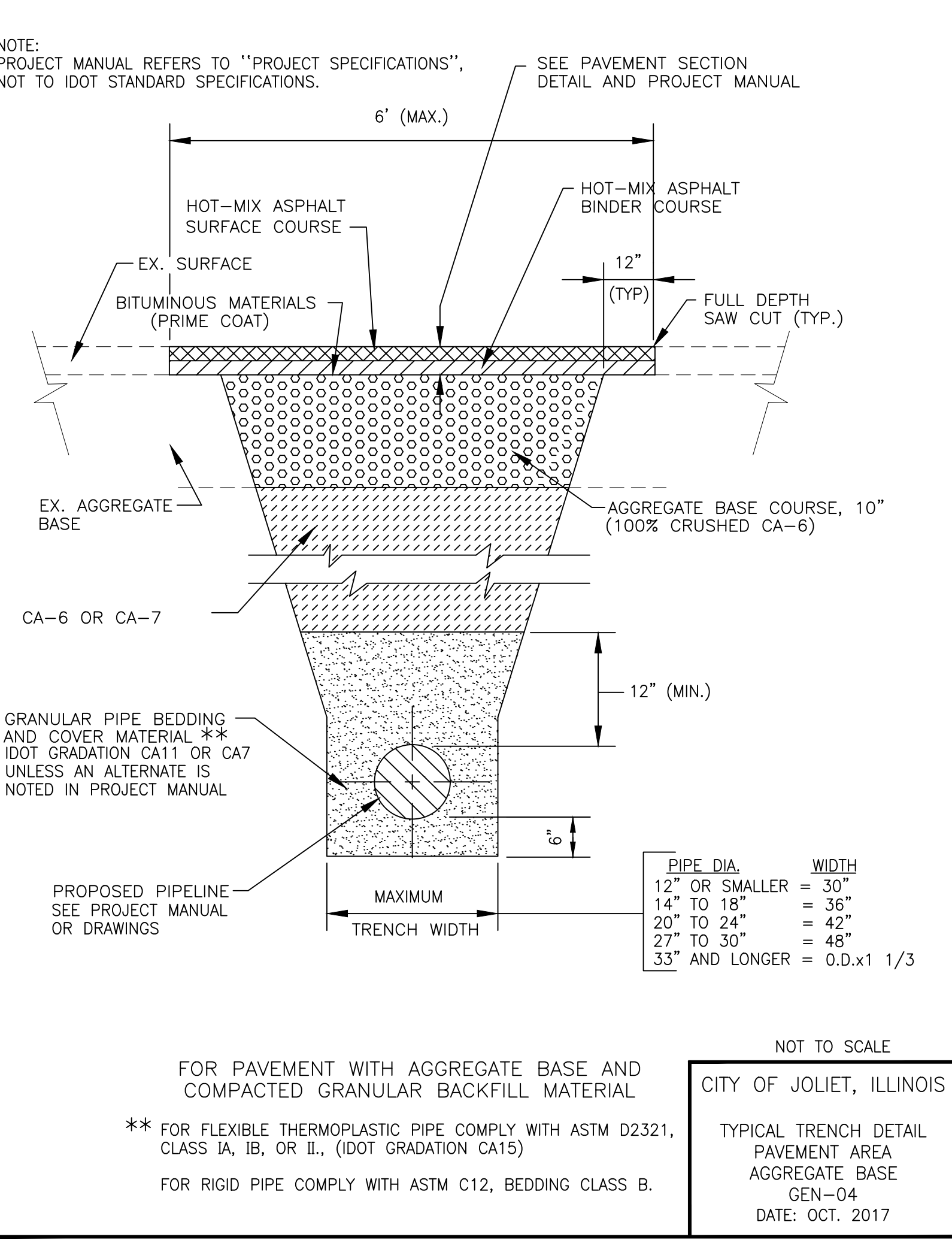
- NOTES:
- MUELLER CENTURION A423, CLOW MEDALLION OR E.J. 5BR250 (RED FOR MUNICIPAL TREATED WATER, GREEN FOR RAW WATER, YELLOW FOR PRIVATE HYDRANTS)
  - HYDRANTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE BACK OF CURB IN LOCATIONS SHOWN ON THE DRAWINGS
  - USE SWIVEL TEE AS CALLED OUT ON PLANS.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



- 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.

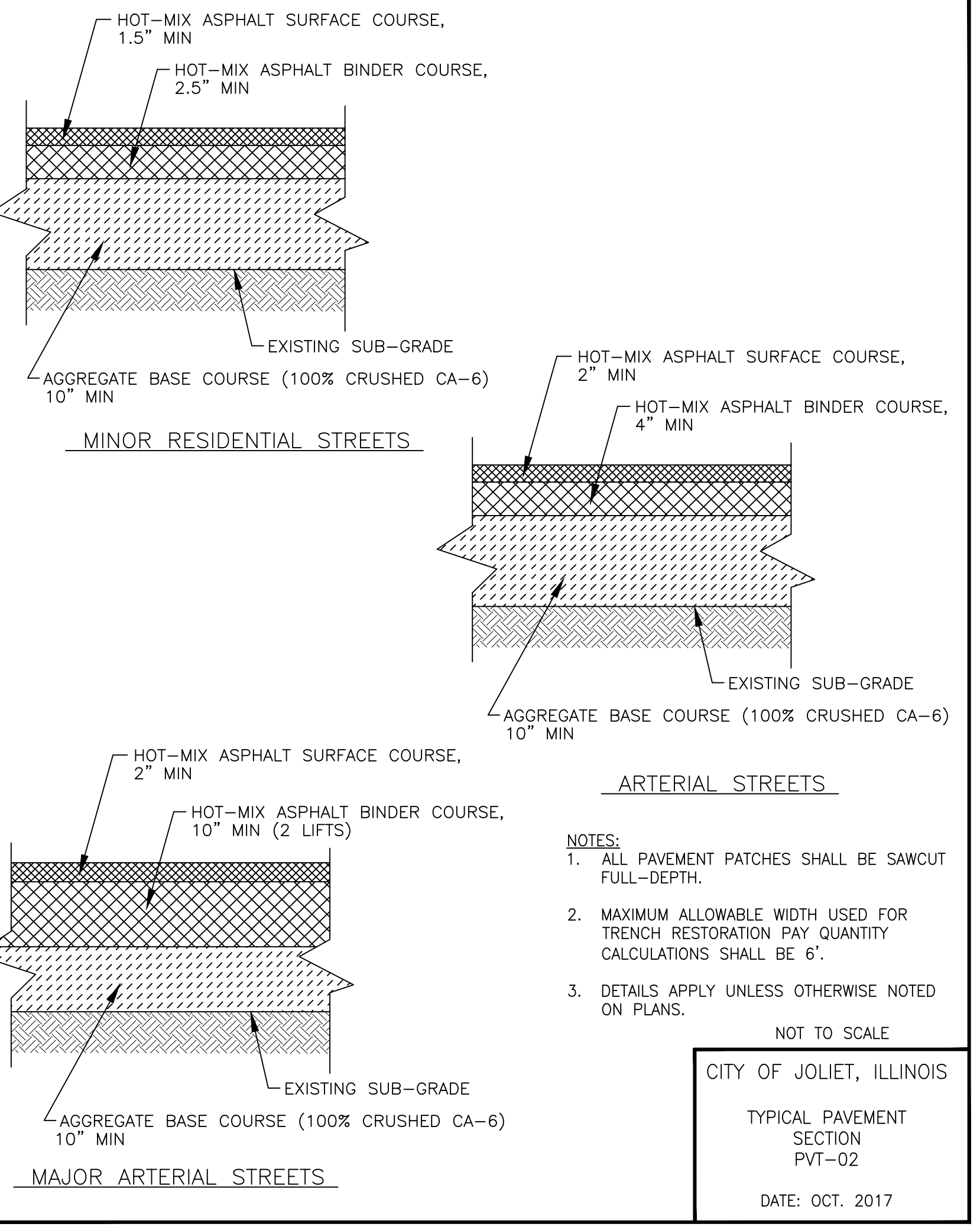


- INSTALL GEOTEXTILE FABRIC TO ENVELOP CA-1 STONE AND BEDDING AND COVERING MATERIAL
- SEWN SEAMS BETWEEN SECTIONS OF FABRIC
- TYPICAL TRENCH BOTTOM
- CA-1 TO TYPICAL TRENCH BOTTOM
- REMOVE UNSUITABLE MATERIAL AND REPLACE WITH CA-1 STONE AS OUTLINED IN PROJECT MANUAL
- ACCEPTABLE MATERIAL
- SEE PROJECT MANUAL FOR LIMITS OF PAY QUANTITIES AND METHODS OF MEASUREMENT



- 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.

PIPE DIA.	WIDTH
12" OR SMALLER	= 30"
14" TO 18"	= 36"
20" TO 24"	= 42"
27" TO 30"	= 48"
33" AND LONGER	= 0.8x1 1/3



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

I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\RIDGWOOD PH 3\DWG\GEN\RIDGWOOD PH 3.DWG X DETAILS  
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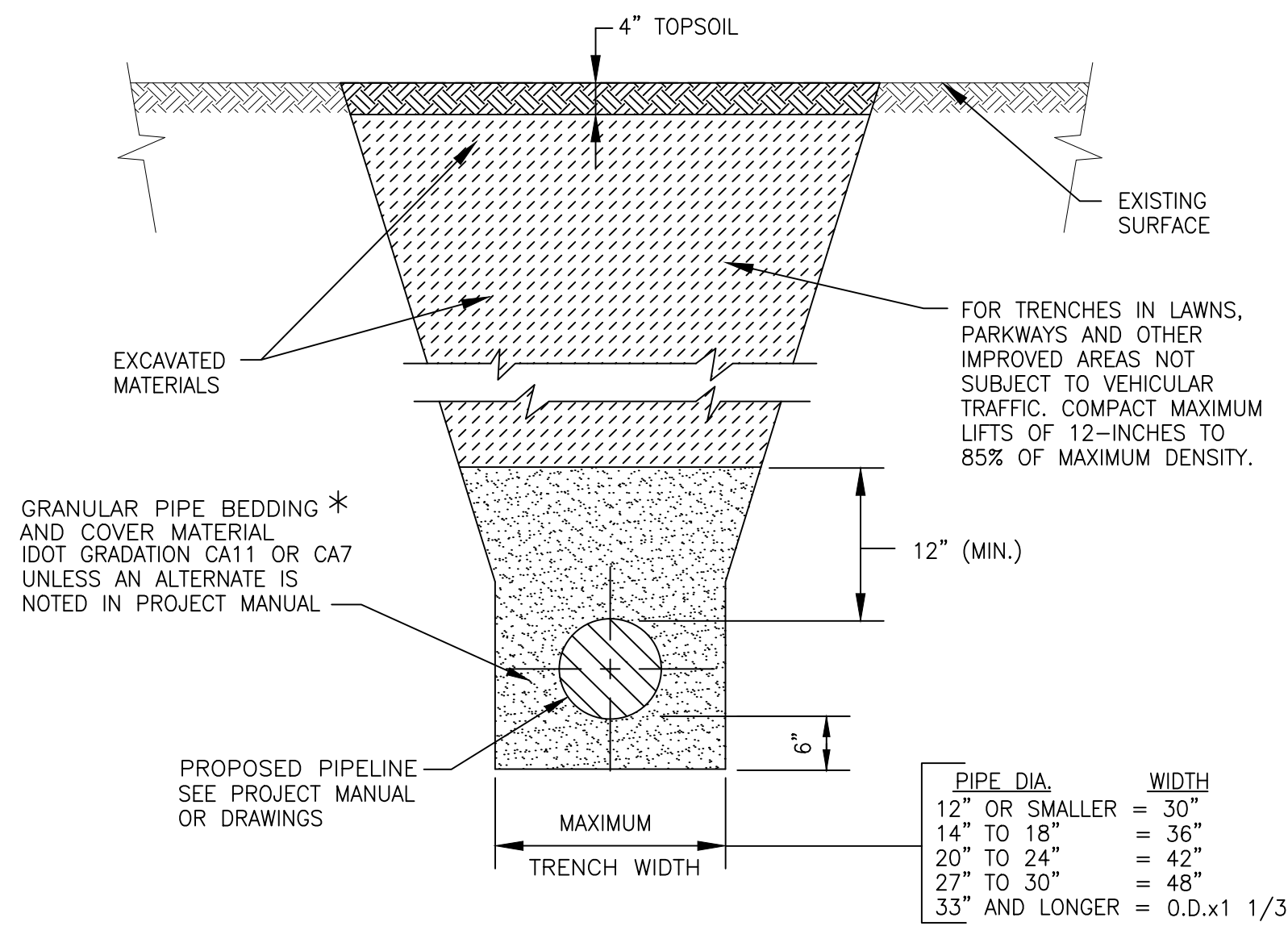
**CITY OF JOLIET, ILLINOIS  
RIDGWOOD PHASE 3 WATER MAIN IMPROVEMENTS  
CITY OF JOLIET CONTRACT NO. 2609-0122**

SCALE: AS NOTED  
PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	17
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN  
FOR BIDDING

- 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

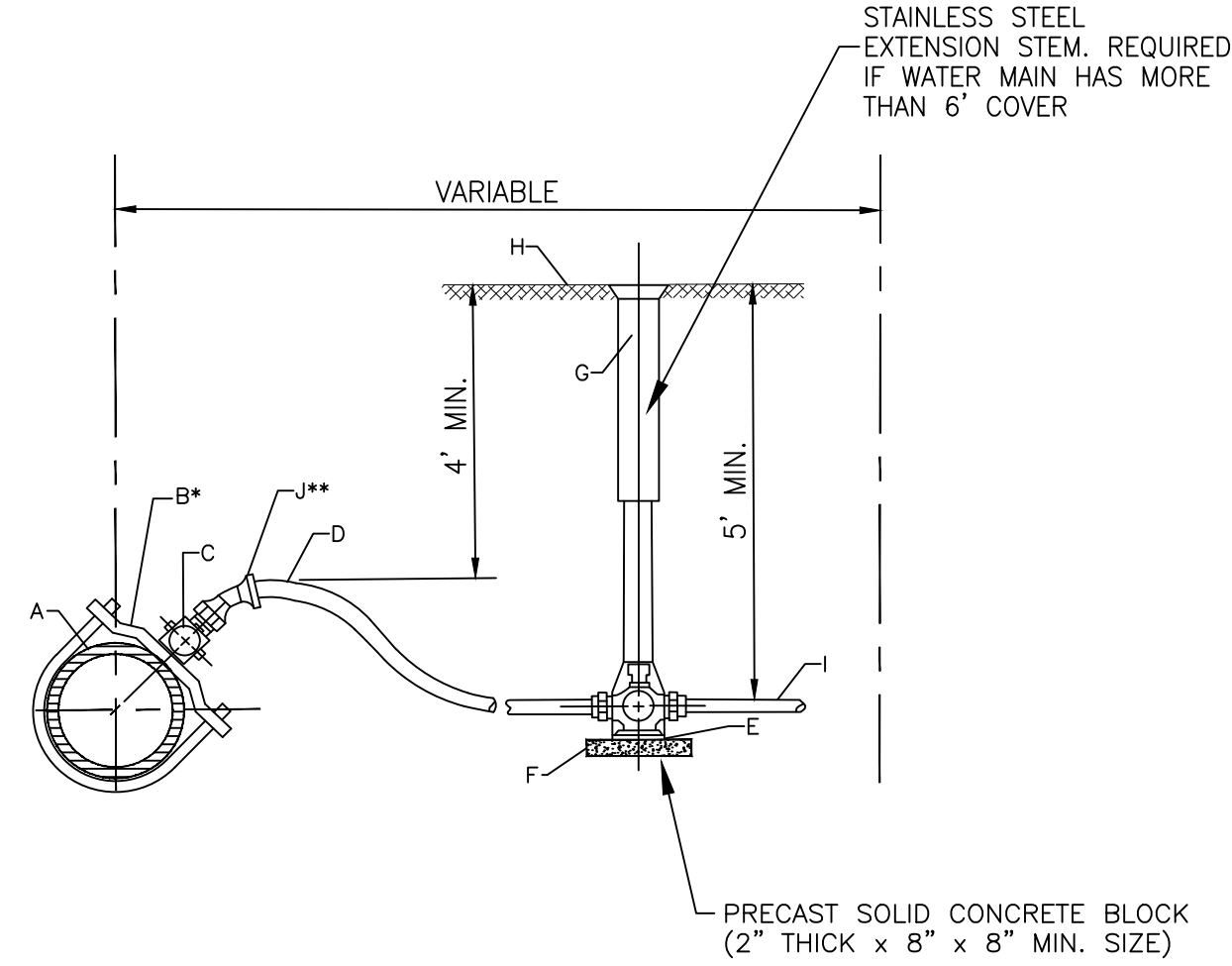
NOT TO SCALE

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

- 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

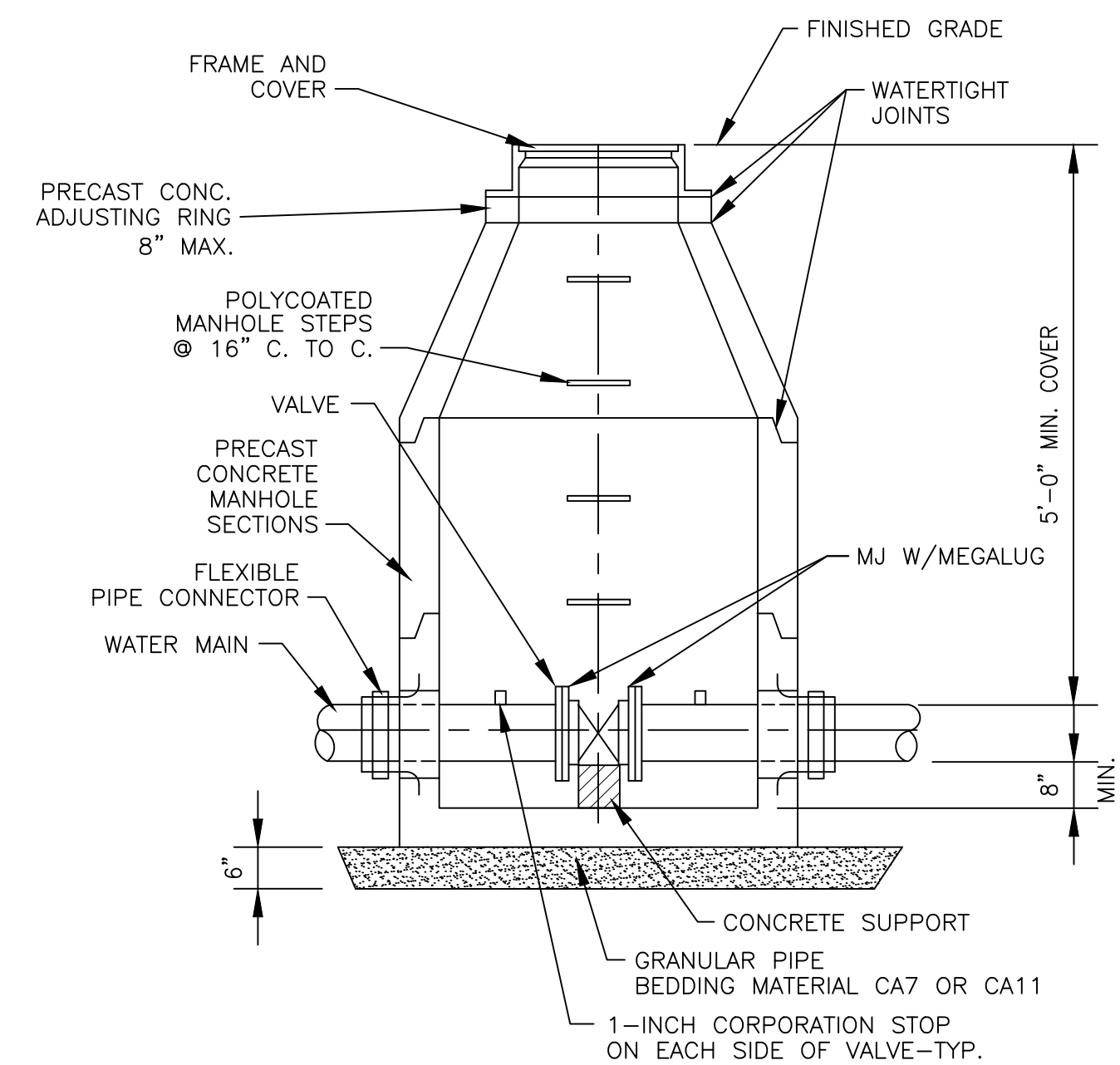
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE  
CONNECTION DETAIL  
WTR-06

DATE: OCT. 2020



NOTES:

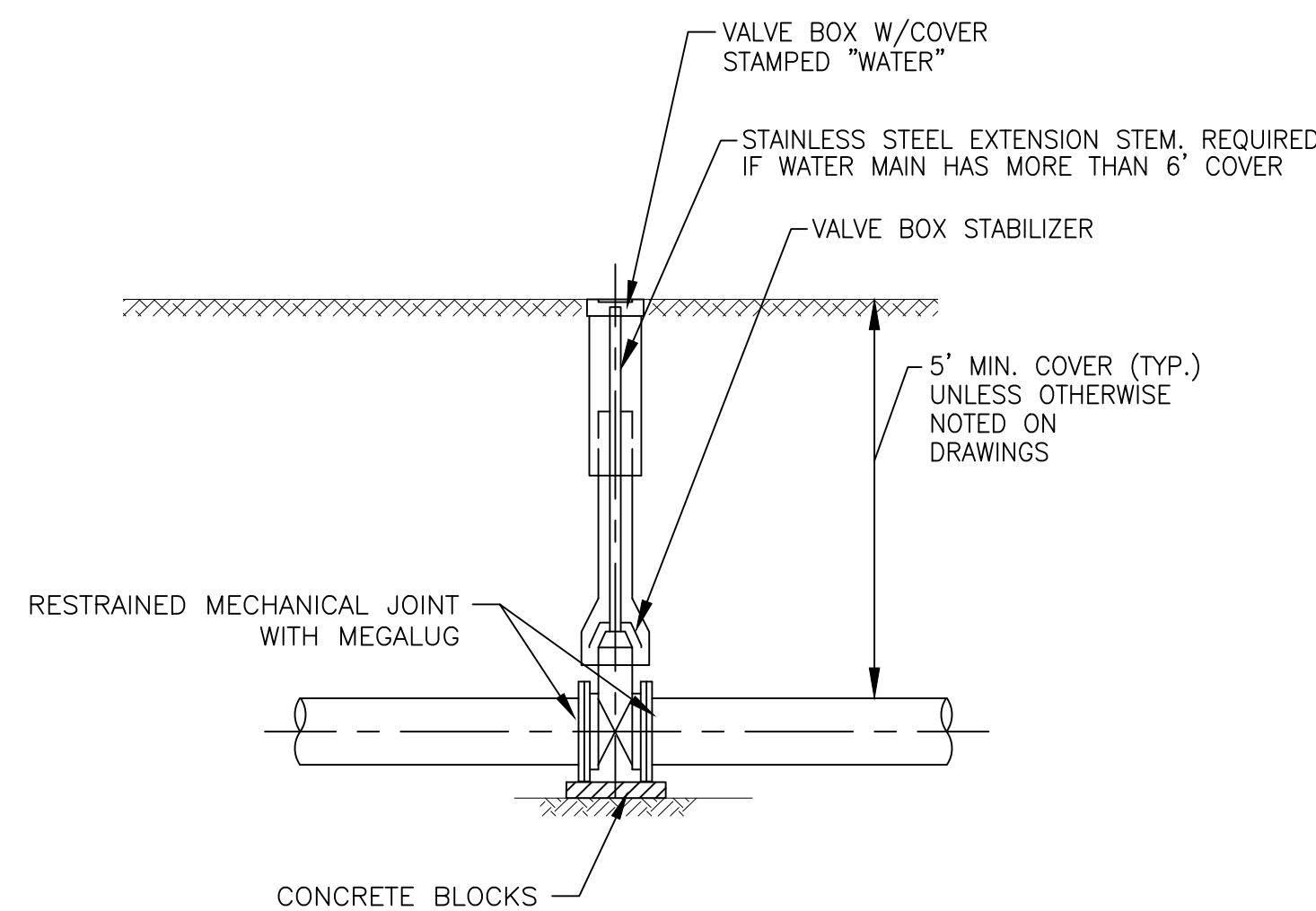
- CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
- USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
- PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER".  
EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT  
DETAIL  
WTR-01

DATE: OCT. 2017

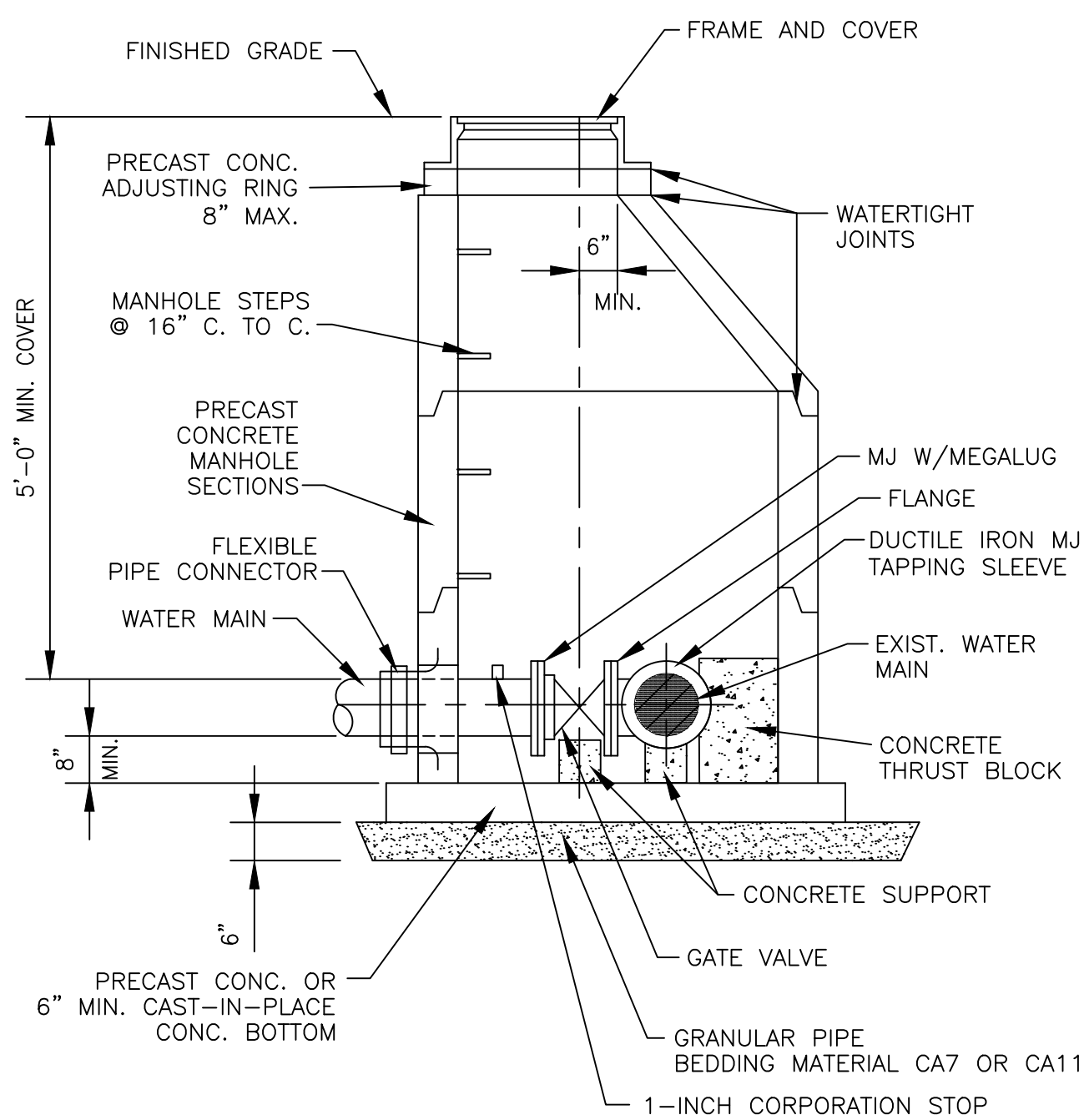


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX  
DETAIL  
WTR-02

DATE: OCT. 2017



NOTES:

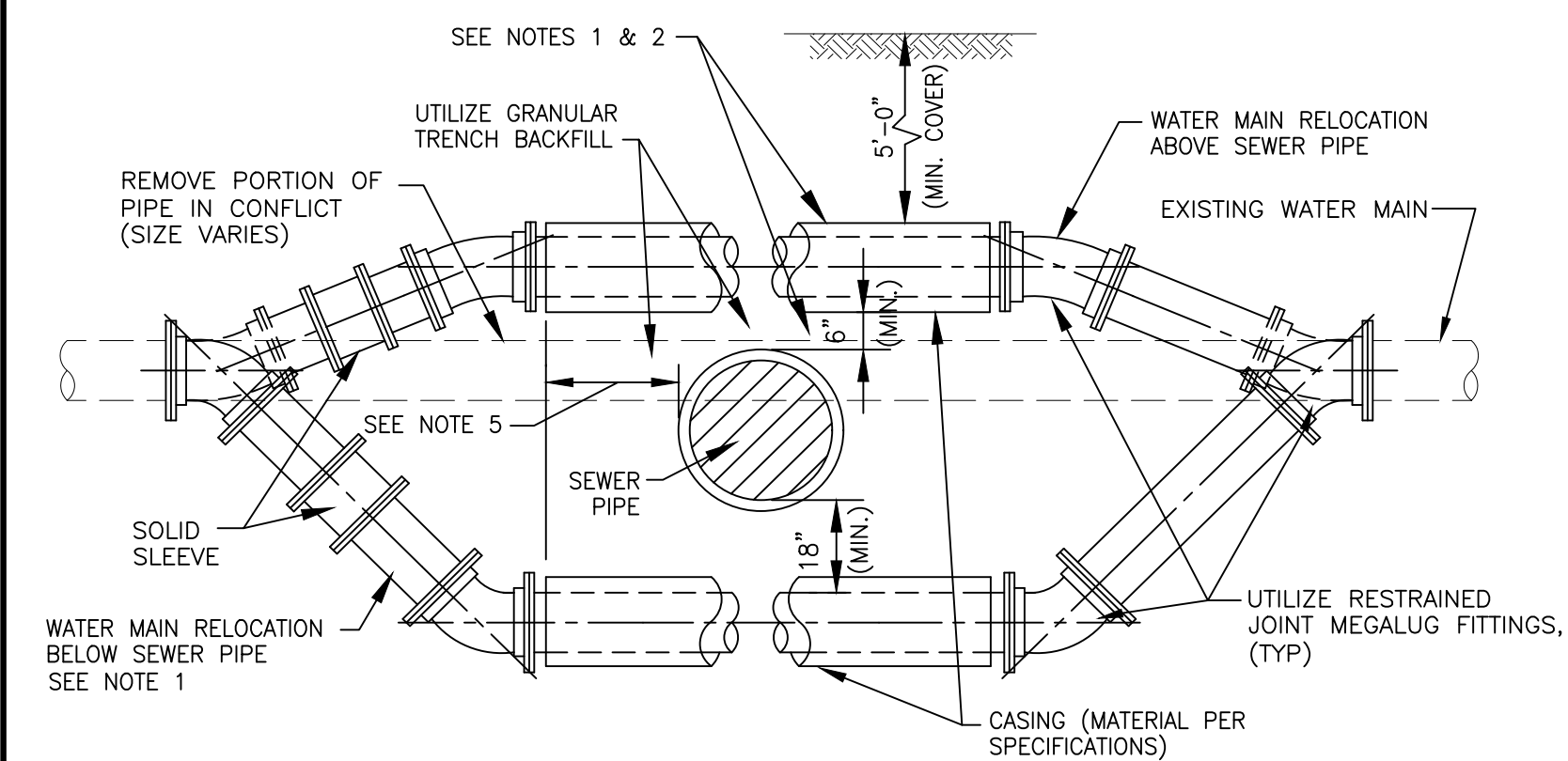
- ECCENTRIC CONE REQUIRED
- USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8", USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14", USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
- PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET"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

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PRESSURE CONNECTION  
DETAIL  
WTR-07

DATE: OCT. 2017



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

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**BAXTER & WOODMAN**  
 Consulting Engineers

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	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS**  
**RIDGWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

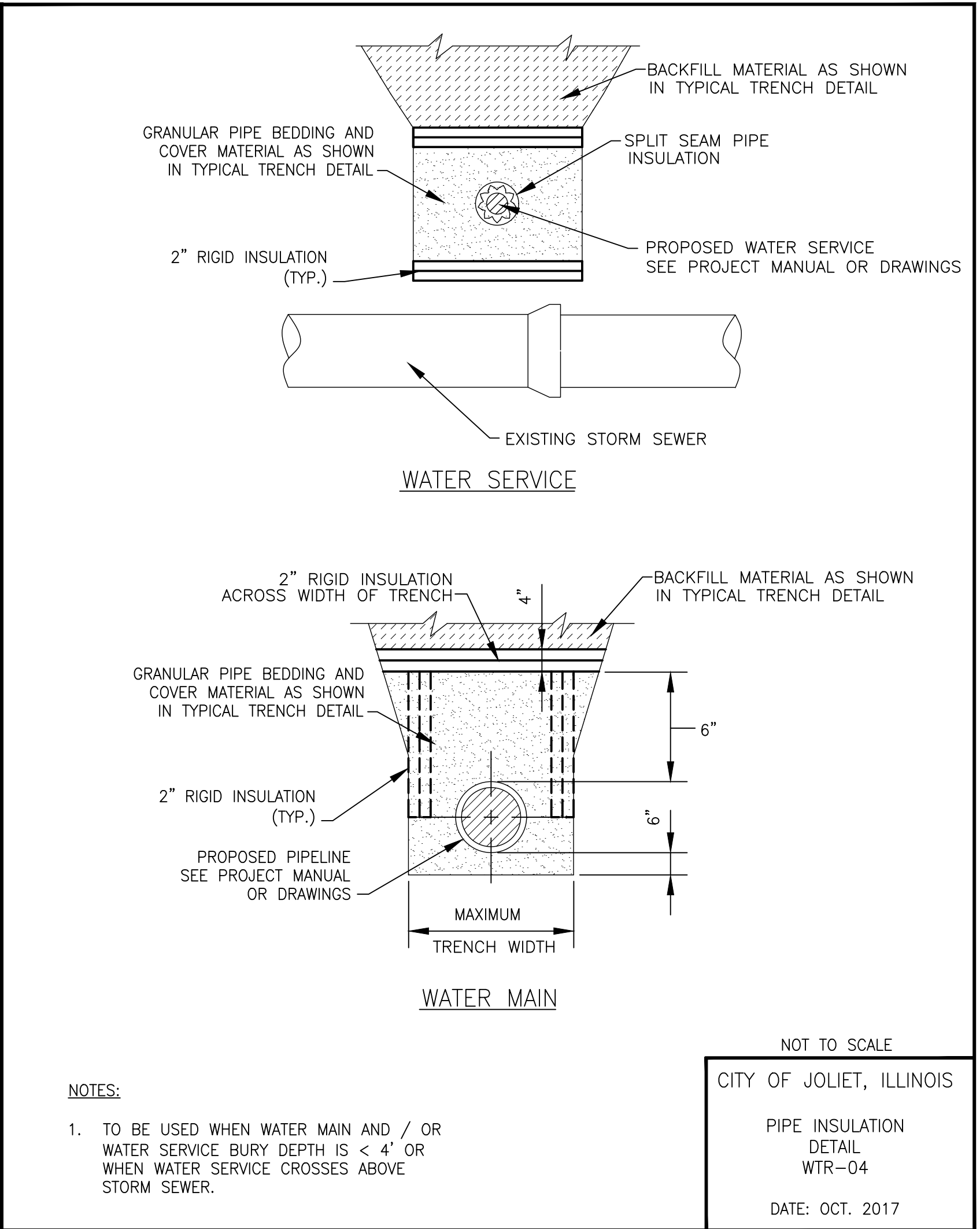
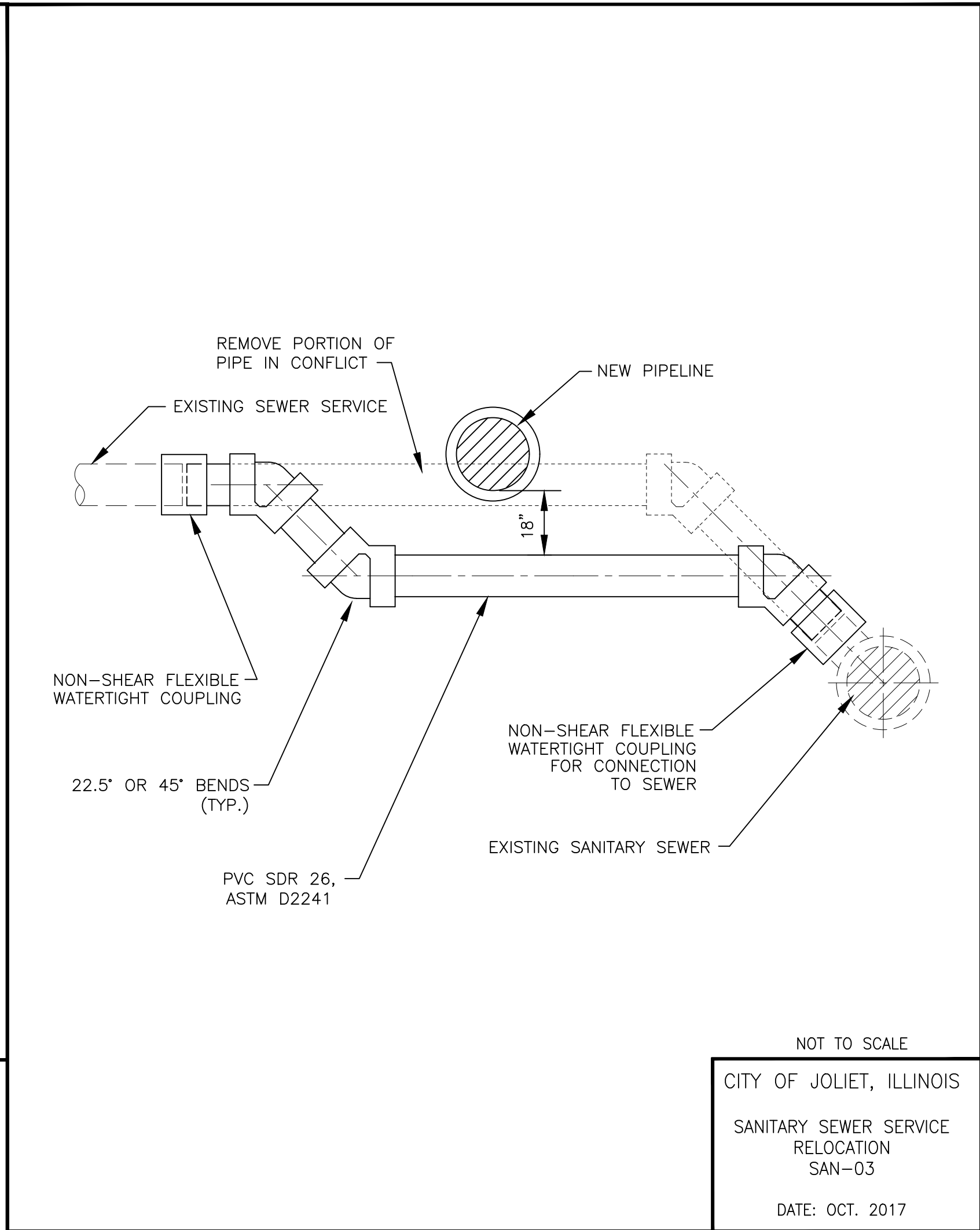
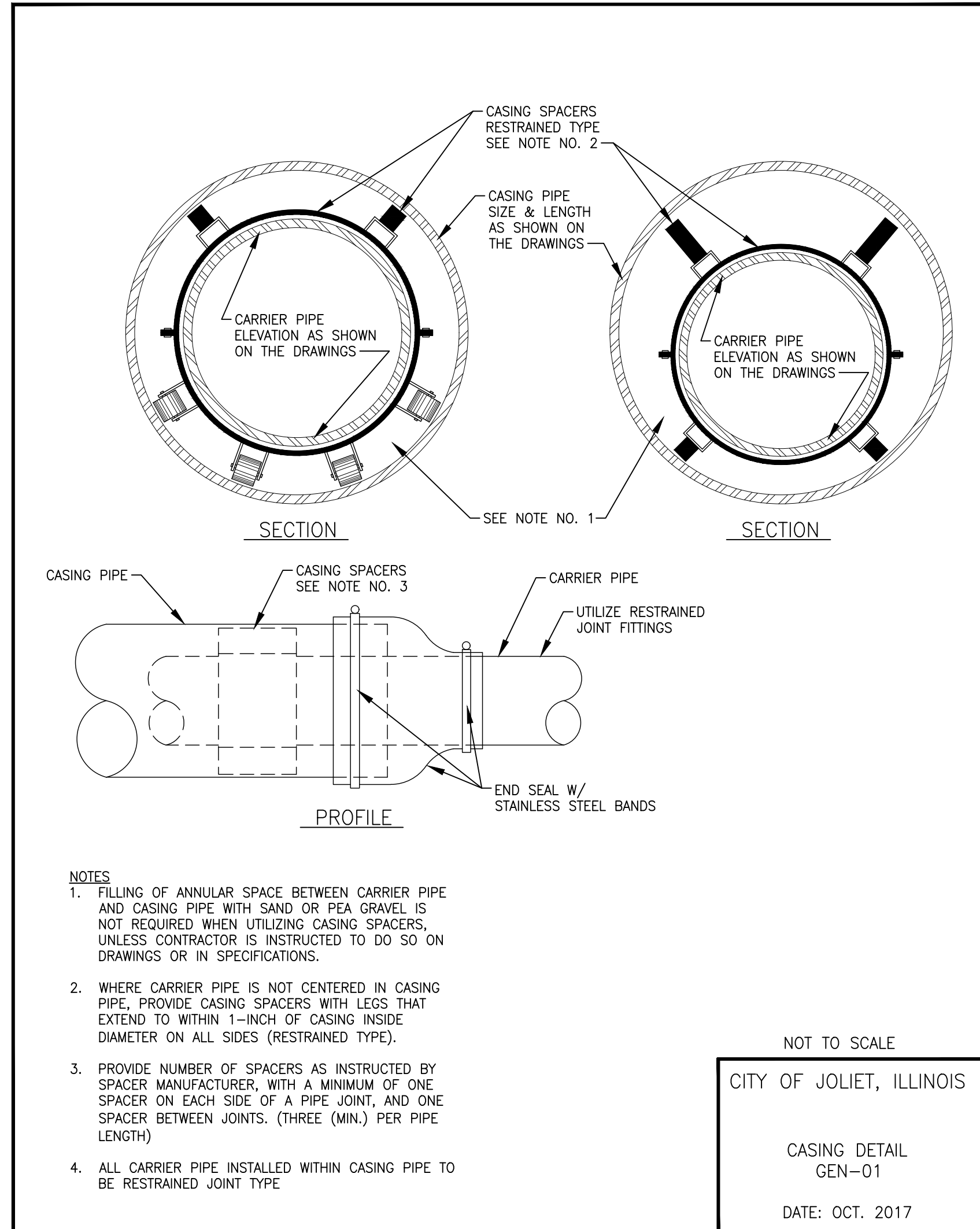
SCALE: AS NOTED

DETAILS

PROJECT NO: 210039.40

DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	18
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN  
FOR BIDDING



FITTING TYPE	RESTRAINT JOINT TYPE PIPE LENGTH (FEET)					
	DIAMETER (IN)					
	4"	6"	8"	10"	12"	16"
HORIZONTAL BEND	11.25'	5	5	5	5	5
	22.5'	5	5	5	10	10
	45'	5	10	10	10	15
	90'	15	20	20	25	30
	180'	30	40	40	50	60
VERTICAL BEND	45'	20	25	35	40	45
	90'	5	5	5	5	5
TEE	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	20	30	35	45	50	65
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	-

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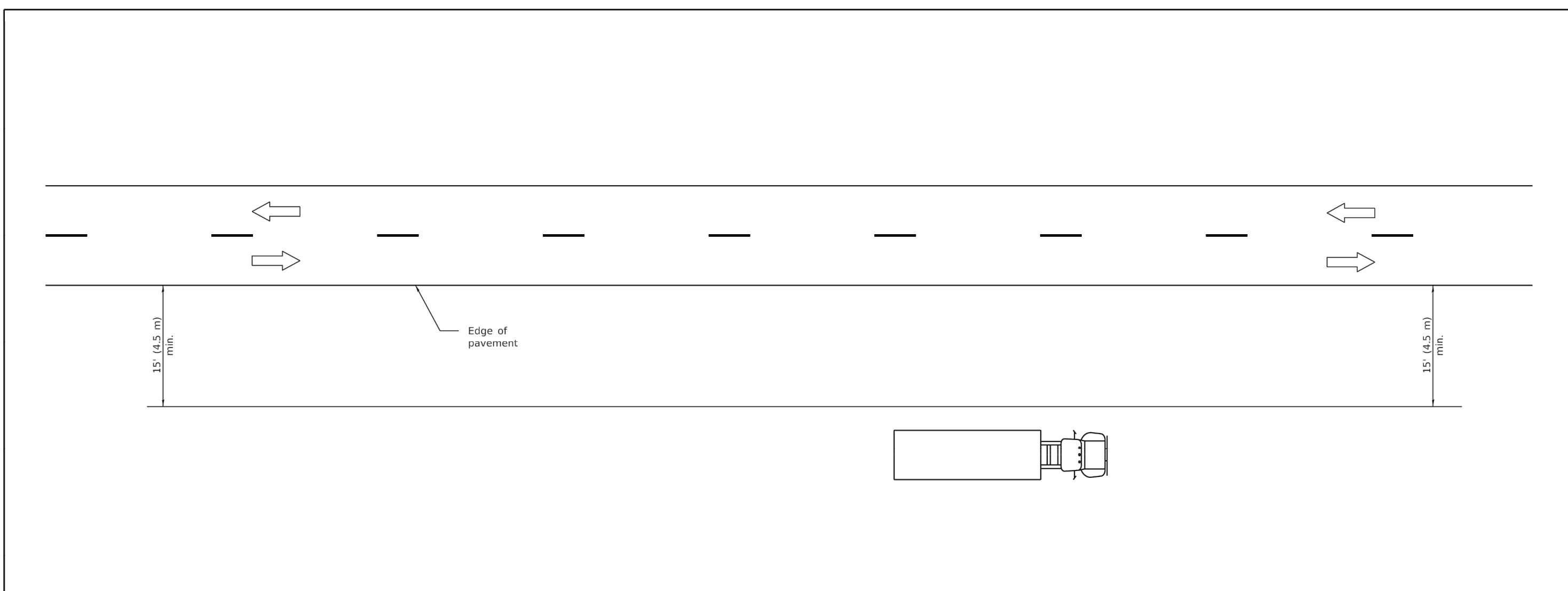
CONSULTANTS	REVISED -
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**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

SCALE:	AS NOTED	PROJECT NO:	210039.40
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DESIGNED - EK	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	20	19
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



**TYPICAL APPLICATIONS**

- Landscaping work
- Utility work
- Fencing contracts and maintenance
- Cleaning culverts

**GENERAL NOTES**

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

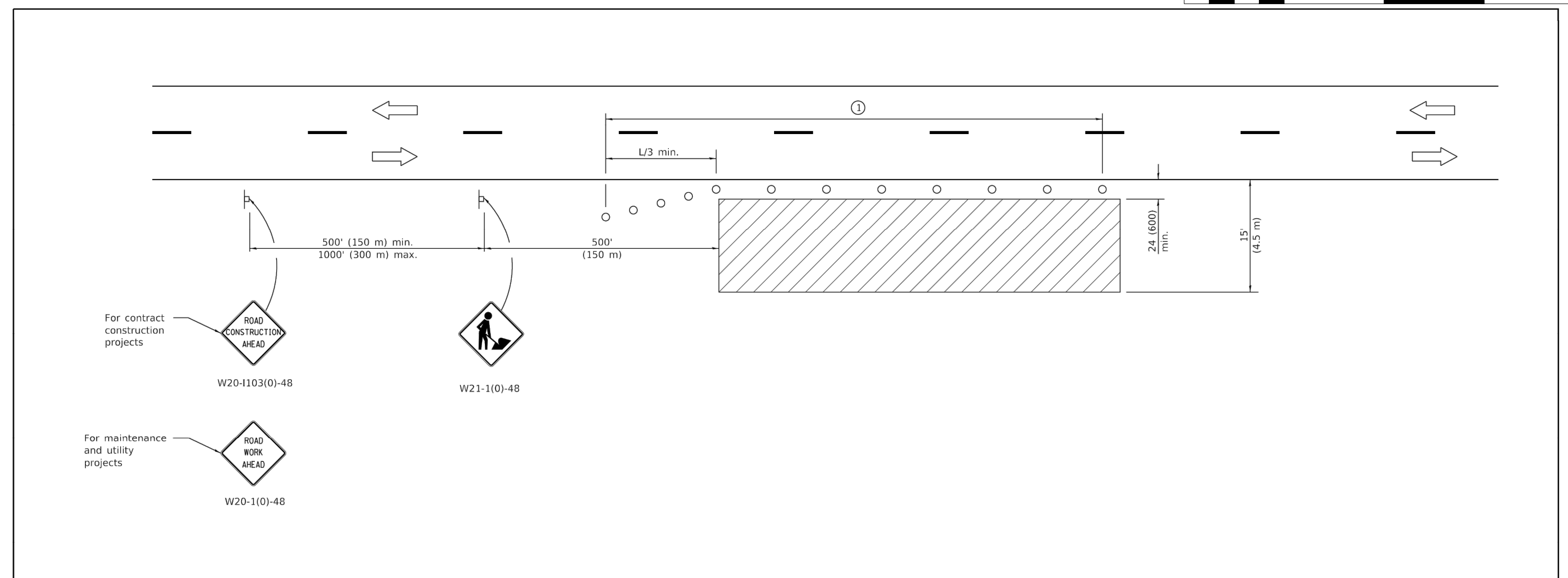
When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

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

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Revised title and notes.

**OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY**  
**STANDARD 701001-02**

Illinois Department of Transportation  
 PASSED January 3, 2009  
 ENGINEER OF OPERATIONS  
 APPROVED January 3, 2009  
 ENGINEER OF DESIGN AND ENVIRONMENT



**TYPICAL APPLICATIONS**

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

**SYMBOLS**

- Work area
- Sign
- Cone, drum or barricade

**GENERAL NOTES**

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

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

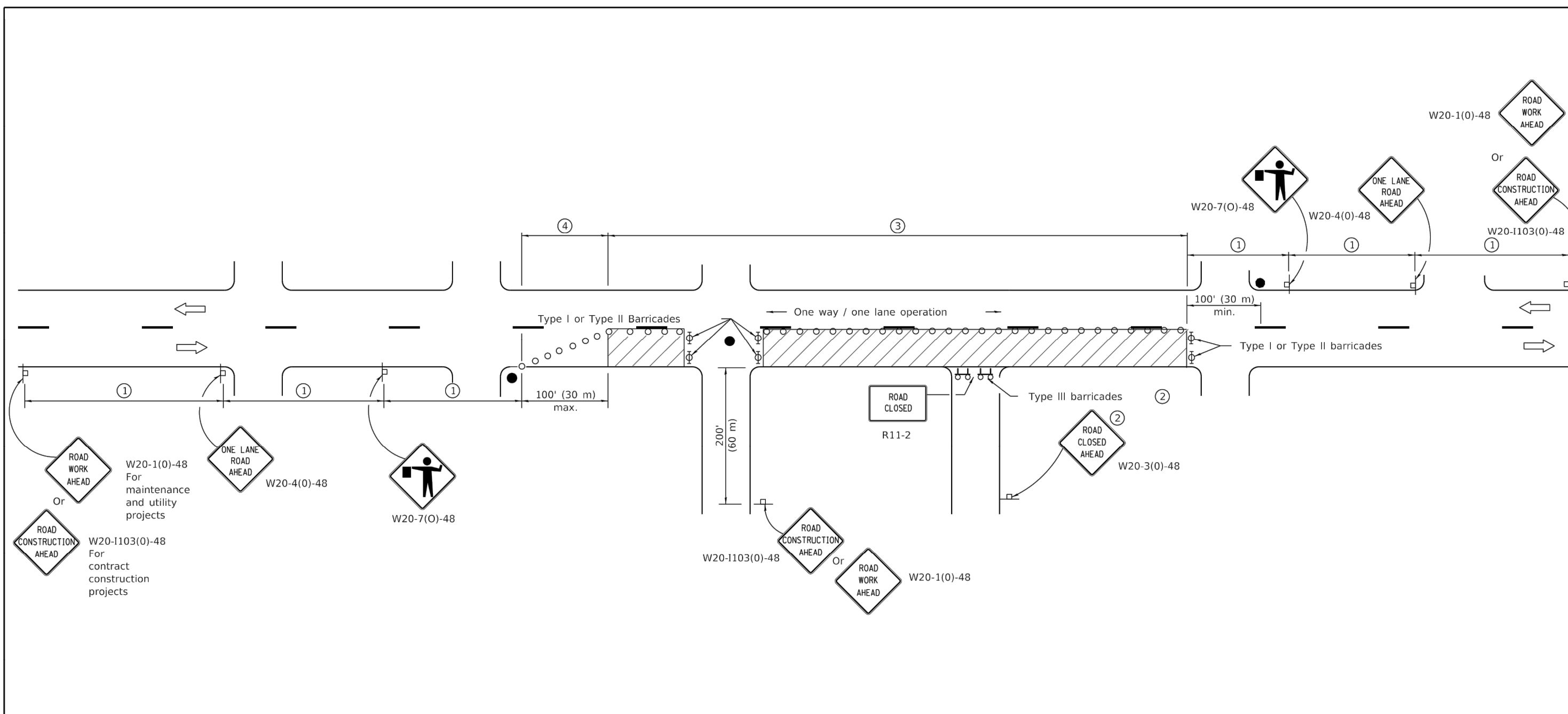
W = Width of offset in feet (meters).  
 S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text "WORKERS" sign.

**OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE**  
**STANDARD 701006-05**

Illinois Department of Transportation  
 PASSED January 3, 2014  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED January 3, 2014  
 ENGINEER OF DESIGN AND ENVIRONMENT



Posted Speed	Sign Spacing
65	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- 1 Refer to SIGN SPACING TABLE for distances.
- 2 For approved sideroad closures.
- 3 Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- 4 Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

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

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

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric). Corrected sign No.'s.

**URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED**  
**STANDARD 701501-06**

Illinois Department of Transportation  
 PASSED January 3, 2011  
 ENGINEER OF SAFETY ENGINEERING  
 APPROVED January 3, 2011  
 ENGINEER OF DESIGN AND ENVIRONMENT

I:\AZURE\VOLTC\210039-2022 WATER MAIN\CAD\RIDGEWOOD PH 3\DWG\CURRENT\210039-COVER\_GEN\_RIDGEWOOD PH 3.DWG IDOT DETAILS  
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	REVISED -

**CITY OF JOLIET, ILLINOIS**  
**RIDGEWOOD PHASE 3 WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2609-0122**

SCALE:	AS NOTED	PROJECT NO:	210039.40
<b>IDOT DETAILS</b>		DESIGNED - EK	TOTAL SHEETS
		DRAWN - JJS	20
		CHECKED - LMS	SHEET NO.
		DATE - 11/18/21	20

FINAL DESIGN FOR BIDDING