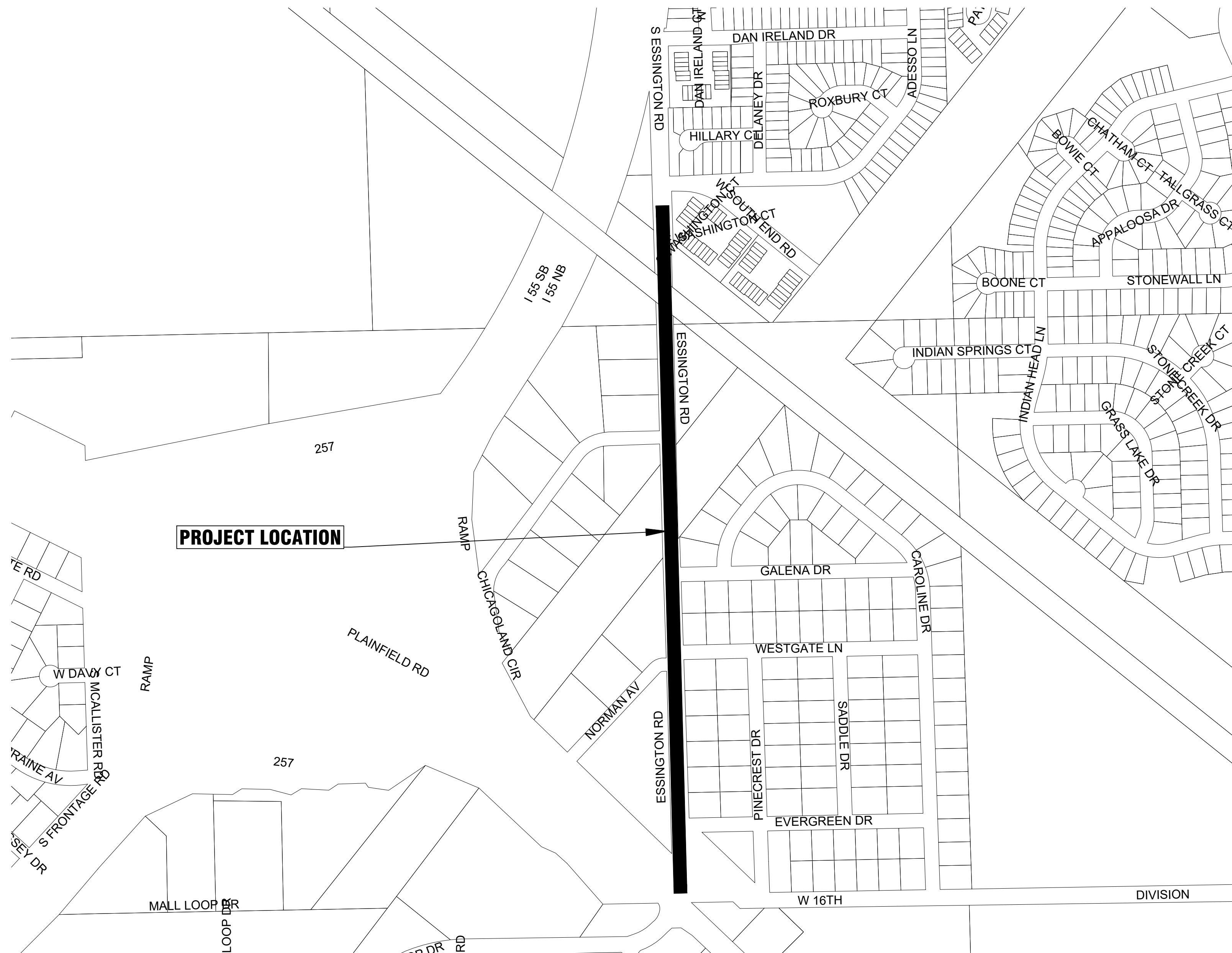


# CITY OF JOLIET, ILLINOIS


## ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS

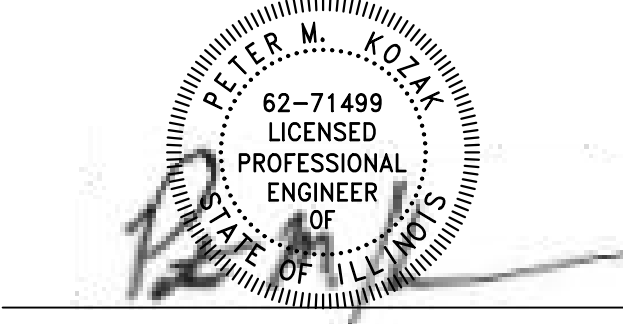
### CITY OF JOLIET CONTRACT NO. 2616-0222

INDEX OF SHEETS	
SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGENDS, BENCHMARKS, AND ABBREVIATIONS
3	GENERAL NOTES, AND SUMMARY OF QUANTITIES
4	SUGGESTED MAINTENANCE OF TRAFFIC DETOUR ROUTE
5	PLAINFIELD ROAD STA. 10+00 TO STA. 14+00 PLAN AND PROFILE
6	ESSINGTON ROAD STA. 14+00 TO STA. 19+00 PLAN AND PROFILE
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10	ESSINGTON ROAD STA. 32+00 TO STA. 37+00 PLAN AND PROFILE
11	ESSINGTON ROAD STA. 37+00 TO STA. 42+00 PLAN AND PROFILE
12	ESSINGTON ROAD STA. 42+00 TO STA. 46+00 PLAN AND PROFILE
13	DETAILS
14	DETAILS
15	DETAILS



J.U.L.I.E. DESIGN STAGE REQUEST  
DIG NO. A0571061  
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.

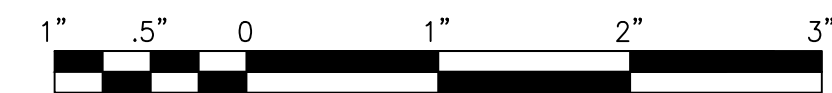
  
 PROJECT MANAGER  
 "LICENSE EXPIRES 2-28-2022"

  
 PROJECT ENGINEER  
 "LICENSE EXPIRES 2-28-2022"

VICINITY MAP



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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
LICENSE NO. - 184-001121 - EXPIRES 4/30/2023

PROJECT NO.: 210039.40      DATE: 12/16/21

I:\AZURE\JOLTC\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\GEN\_210039-COVER-1 COVER.DWG 12/9/2021 9:18 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	

12" (HATCHED SHALL BE REMOVED)  
 16" (HATCHED SHALL BE REMOVED)

**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

**BENCHMARKS (NAVD 88 DATUM)**

B.M. # 520		NORTHEAST ARROW BOLT OF FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF ESSINGTON ROAD AND CHICAGOLAND CIRCLE ELEV. = 611.03
B.M. # 521		RAILROAD SPIKE SET IN EAST FACE OF UTILITY POLE LOCATED ON THE WEST SIDE OF ESSINGTON ROAD AT ADDRESS 16260 ELEV. = 615.58
B.M. # 522		NORTHEAST ARROW BOLT OF FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF ESSINGTON ROAD AND ADESSO LANE ELEV. = 612.73
B.M. # 523		RAILROAD SPIKE SET IN NORTHWEST FACE OF UTILITY POLE WITH LIGHT LOCATED AT THE SOUTHEAST CORNER OF ESSINGTON ROAD AND EVERGREEN DRIVE ELEV. = 612.19
B.M. # 524		RAILROAD SPIKE SET IN SOUTHWEST FACE OF UTILITY POLE WITH LIGHT LOCATED AT THE NORTHEAST CORNER OF ESSINGTON ROAD AND WESTGATE LANE ELEV. = 611.80

I:\AZURE\JULY\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\LEGENDS AND ABBREVIATIONS  
 Plotted: 12/19/2021 9:18 AM By: ANACINO  
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CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

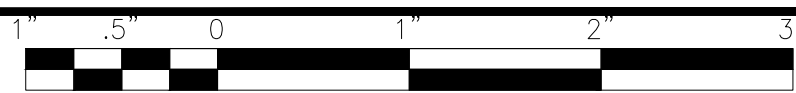
**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

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

DESIGNED -	TOTAL SHEETS	SHEET NO.
WJW	15	2
DRAWN - TJB/JJS		
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN





### CITY OF JOLIET WATER SYSTEM GENERAL 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 TELEVISIONED 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.
- 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.
  - CHICAGOLAND CIRCLE AND ESSINGTON ROAD FROM PLAINFIELD ROAD TO THE CANADIAN NATIONAL RAILROAD SHALL HAVE 4 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
  - ESSINGTON ROAD FROM THE CANADIAN NATIONAL RAILROAD TO ADESSO ROAD SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 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.
- 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.

CITY OF JOLIET ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS		
NO.	PAY ITEM	UNIT QUANTITY
1	PRECONSTRUCTION VIDEO RECORDING	LSUM 1
2	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM 1
3	GRANULAR TRENCH BACKFILL	CUYD 2100
4	DUCTILE IRON WATER MAIN (OPEN CUT), 4-INCH	FOOT 40
5	DUCTILE IRON WATER MAIN (OPEN CUT), 6-INCH	FOOT 100
6	DUCTILE IRON WATER MAIN (OPEN CUT), 8-INCH	FOOT 140
7	DUCTILE IRON WATER MAIN (OPEN CUT), 12-INCH	FOOT 3100
8	HDPE WATER MAIN (DIRECTIONALLY DRILLED), 12-INCH	FOOT 200
9	WATER MAIN (IN JACKED CASING), 12-INCH D.I. WATER MAIN IN 36-INCH CASING	FOOT 160
10	MISCELLANEOUS FITTINGS	POUND 5000
11	PROJECT MANAGEMENT	HOOR 6
12	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH 7
13	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH 2
14	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT 40
15	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT 30
16	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT 280
17	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT 90
18	WATER SERVICE LINE TYPE L, 1-INCH	FOOT 70
19	WATER SERVICE LINE TYPE L, 1.5-INCH	FOOT 70
20	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE	EACH 1
21	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH 1
22	UTILITY LOCATION - PRIVATE PROPERTY	EACH 1
23	WATER METER RELOCATION	EACH 1
24	WATER METER REPLACEMENT	EACH 1
25	CONNECT TO WATER MAIN (NON-PRESSURE), 4-INCH	EACH 1
26	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH 4
27	CONNECT TO WATER MAIN (NON-PRESSURE), 12-INCH	EACH 1
28	CONNECT TO WATER MAIN (PRESSURE), 12-INCH X 12-INCH	EACH 1
29	GATE VALVE, 4-INCH	EACH 1
30	GATE VALVE, 8-INCH	EACH 3
31	GATE VALVE, 12-INCH	EACH 7
32	VALVE BOX	EACH 10
33	VALVE VAULT, 4-FOOT DIAMETER	EACH 1
34	VALVE VAULT, 5-FOOT DIAMETER	EACH 1
35	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT 5
36	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	VFT 5
37	FIRE HYDRANT	EACH 8
38	FIRE HYDRANT BARREL EXTENSION	VFT 5
39	LINE STOP, 4-INCH	EACH 1
40	LINE STOP, 6-INCH	EACH 1
41	LINE STOP, 8-INCH	EACH 1
42	LINE STOP, 12-INCH	EACH 1
43	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM 1
44	INLET PROTECTION FILTER	EACH 32
45	TEMPORARY HOT-MIX ASPHALT PAVEMENT	SQYD 100
46	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5" BINDER 1.5" SURFACE	SQYD 310
47	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 4" BINDER 2" SURFACE	SQYD 2160
48	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SQYD 60
49	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQYD 100
50	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT 110
51	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT 400
52	DETECTABLE WARNINGS	SQFT 100
53	PAVEMENT MARKING, 6-INCH (THERMOPLASTIC)	FOOT 1030
54	PAVEMENT MARKING, 24-INCH (THERMOPLASTIC)	FOOT 100
55	RESTORATION OF LAWNS AND PARKWAYS	SQYD 940
56	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT 80
57	ADJUSTING SANITARY SEWER SERVICE LINE	EACH 10
58	DUST CONTROL	DAY 30
59	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD 41
60	SOIL TESTS FOR CONTAMINANTS	EACH 4
61	CONTAMINATED WASTE DISPOSAL	CUYD 41
62	EXPLORATORY EXCAVATION	EACH 12
63	SANITARY SEWER REMOVAL AND REPLACEMENT, 8"	FOOT 44
64	TREE ROOT PRUNING	EACH 5
65	TREE TRIMMING	LSUM 2
66	TREE REMOVAL AND REPLACEMENT	EACH 5
67	WATER SERVICE LOCATE	LSUM 1
68	RAILROAD CROSSING COORDINATION AND MOBILIZATION	LSUM 1

### MAINTENANCE OF TRAFFIC NOTES

- REFER TO DISTRICT ONE DETAIL TC-10 FOR SIGNAGE FOR TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS.
- REFER TO DISTRICT DETAIL TC-21 FOR DETOUR SIGN SPACING.
- DAYTIME LANE CLOSURE SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF JOLIET AT (815) 724-4230 AT LEAST 10 DAYS IN ADVANCE OF THE DETOUR ROUTE.
- 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.
- ALL TRENCHES 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.
- THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION. ALSO INCLUDED IS THE COVERING OF ALL CONFLICTING TRAFFIC SIGNS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE SUGGESTED MAINTENANCE OF TRAFFIC PLAN. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- SEE SPECIFICATIONS FOR TRENCH BACKFILL AND PAVEMENT PATCHING REQUIREMENTS.
- 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.

### HIGHWAY STANDARDS

701001	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701611	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901	TRAFFIC CONTROL DEVICES
780001	TYPICAL PAVEMENT MARKINGS

### DISTRICT DETAILS

TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION
TC-26	DRIVEWAY ENTRANCE SIGNING

I:\AZURE\JOLIET\210039-2022 WATER MAIN\CAD\GEN\_ESSINGTON COMED CROSSING\DWGS\CURRENT\210039-COVER-COVER\_GEN\_ESSINGTON COMED CROSSING.DWG 3 GENERAL NOTES AND SUMMARY OF QUANTITIES  
 Plotted: 12/9/2021 1:04 PM By: ANACINO  
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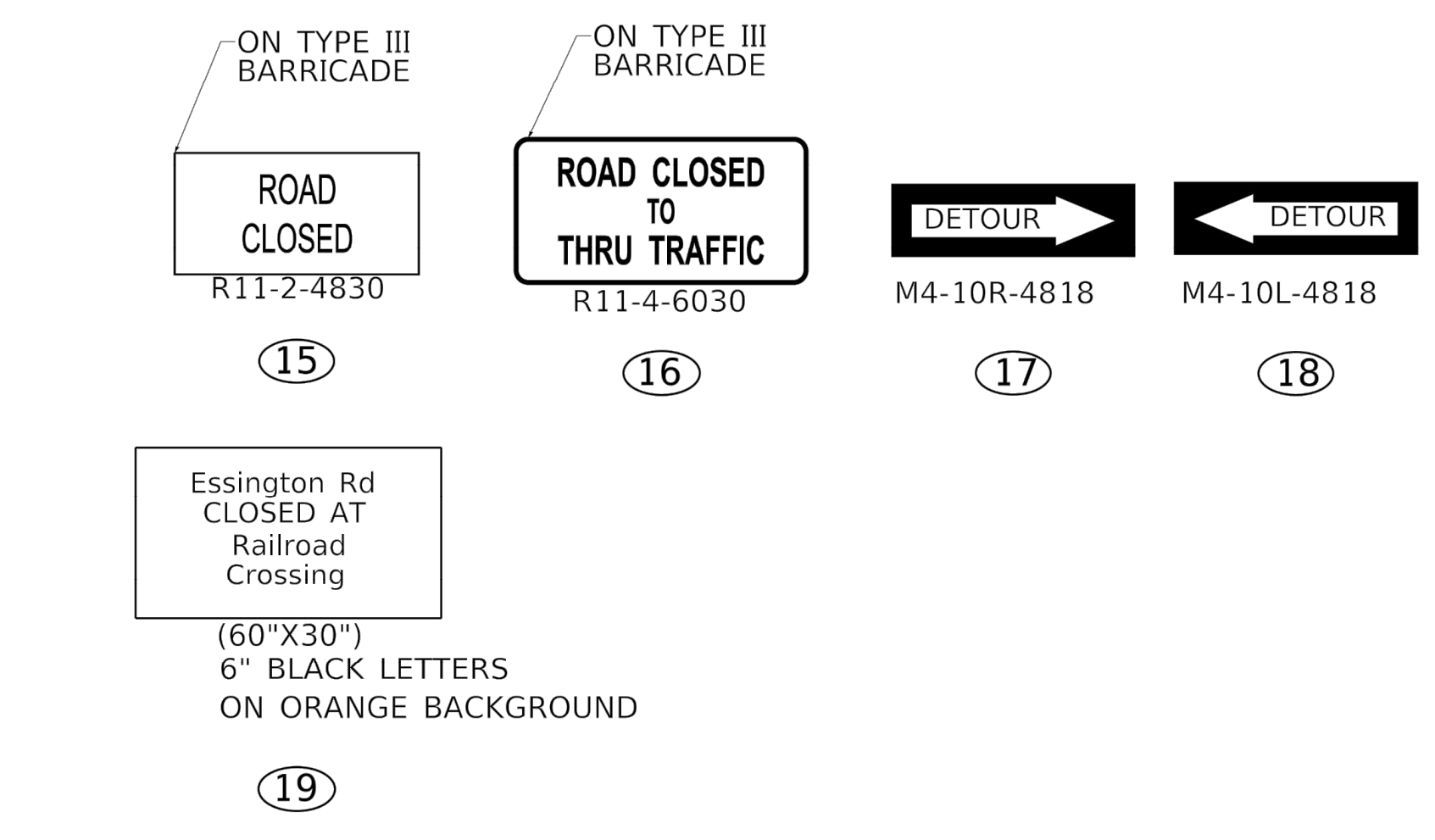
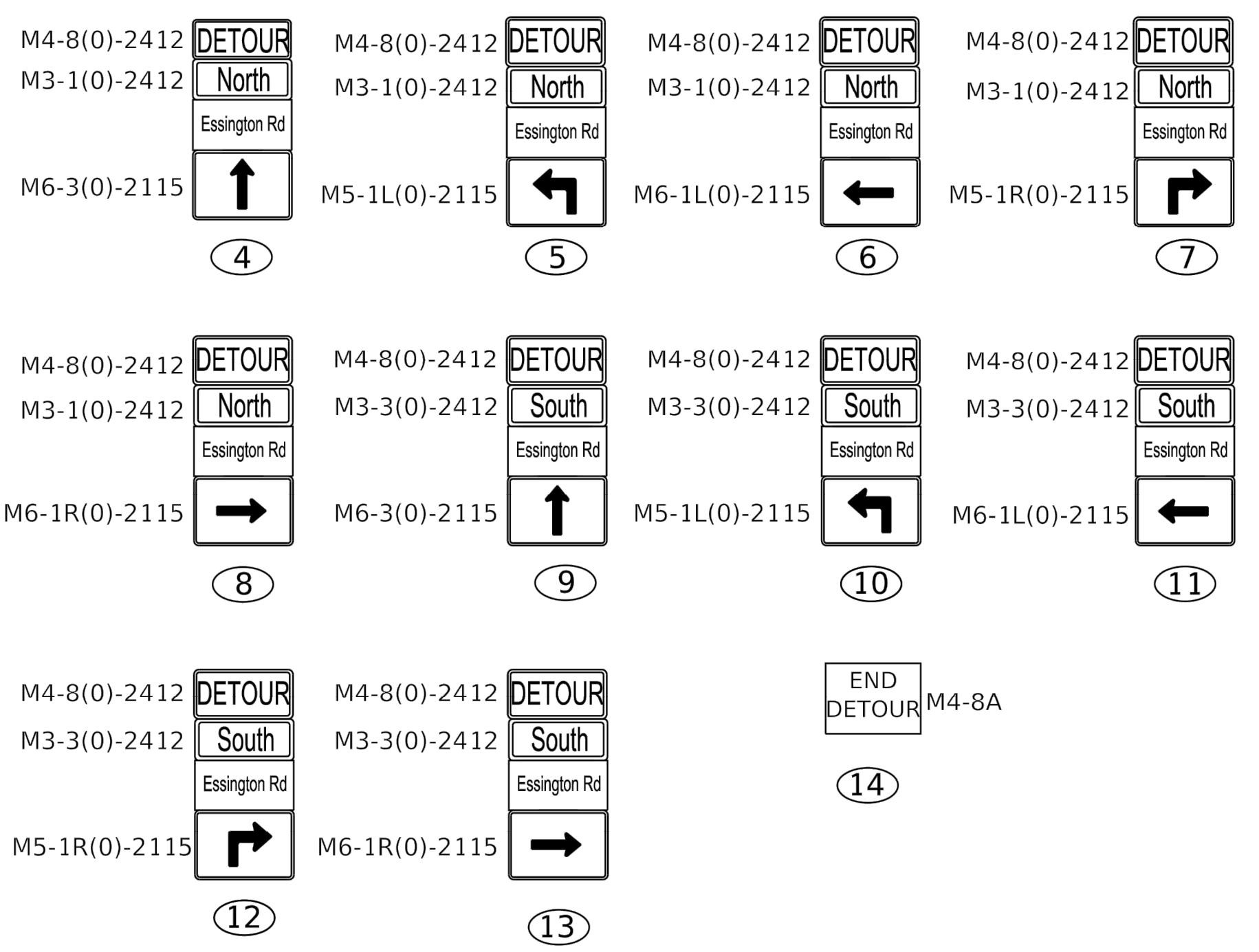
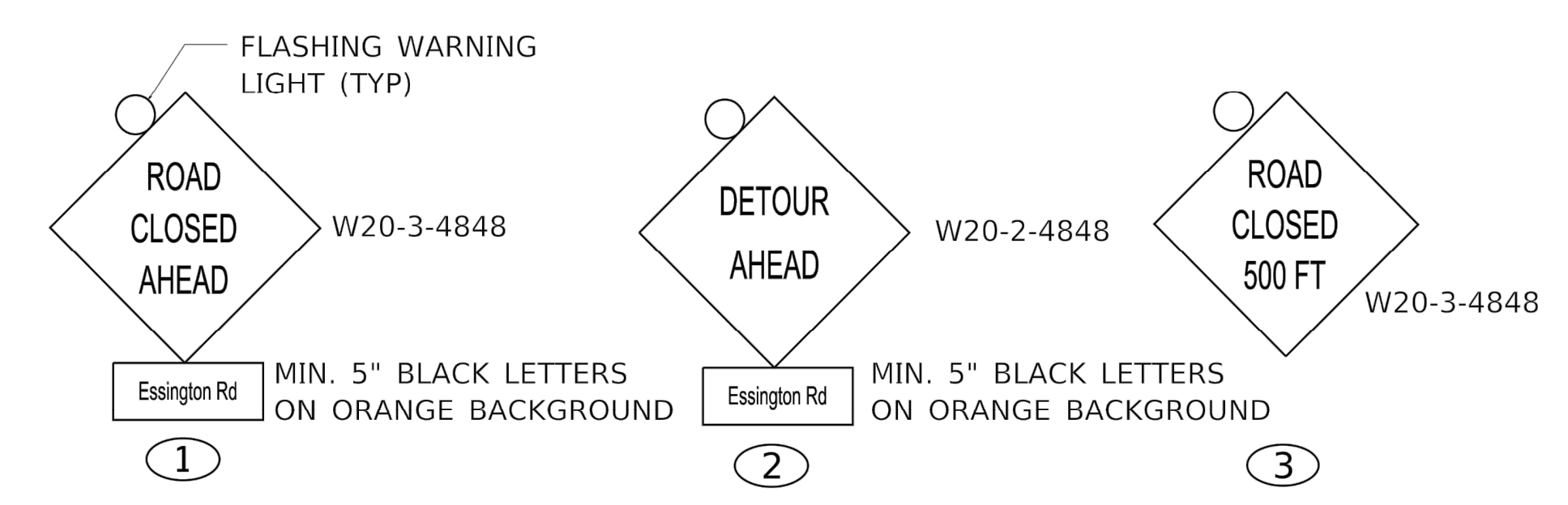
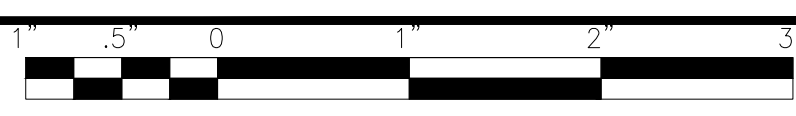
**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

<b>GENERAL NOTES, AND SUMMARY OF QUANTITIES</b>	
SCALE:	AS NOTED
PROJECT NO:	210039.40

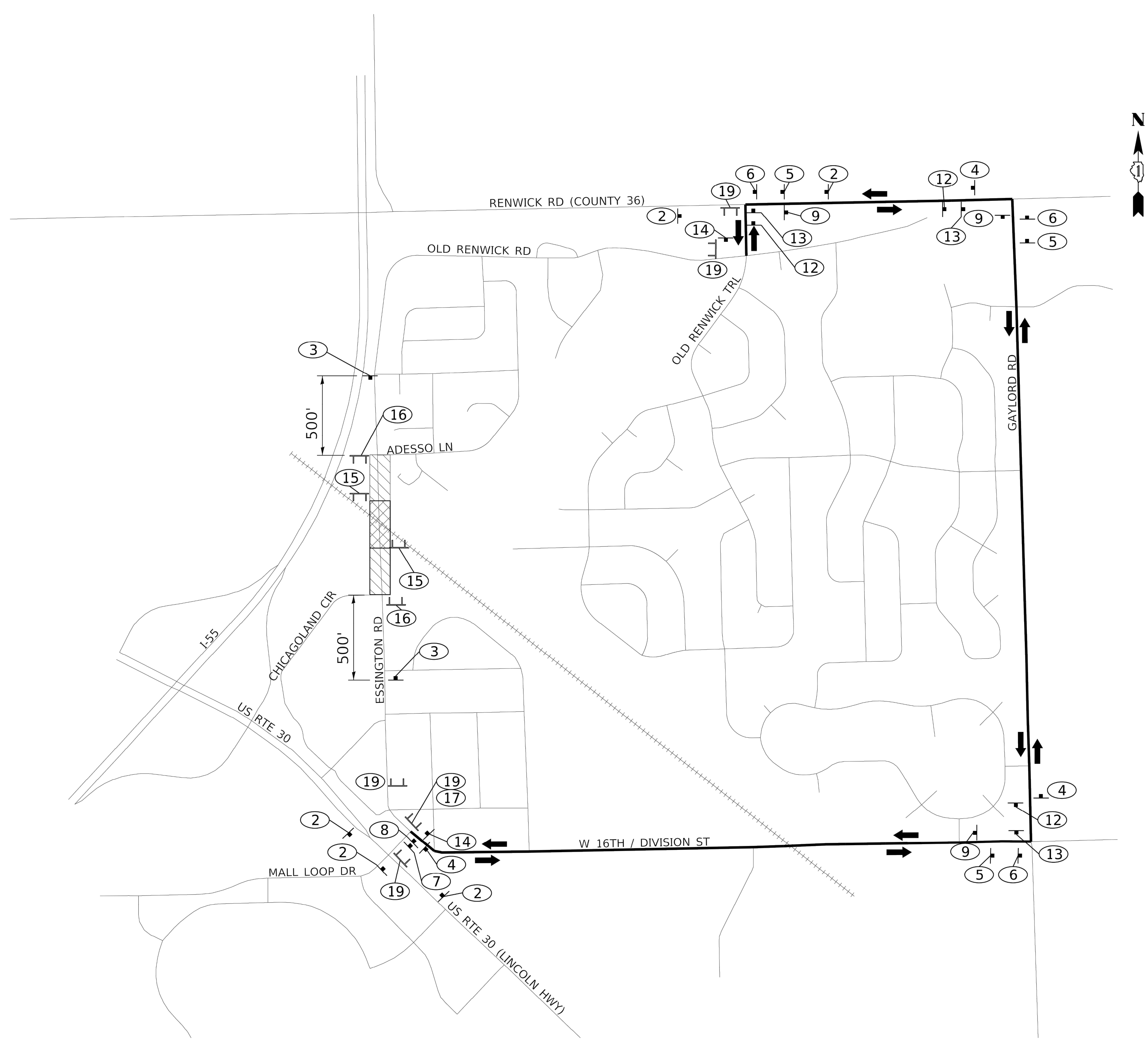
DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	<b>15</b>	<b>3</b>
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN





- LEGEND**
- DIRECTION OF TRAFFIC
  - SIGN
  - TYPE III BARRICADE
  - DETOUR ROUTE
  - ROAD CLOSURE
  - ROAD CLOSED TO THROUGH TRAFFIC



I:\AZURE\JULIET\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039-COVER\_GEN\_ESSINGTON COMED CROSSING.DWG 4. SUGGESTED MAINTENANCE OF TRAFFIC DETOUR ROUTE  
 Plotted: 12/9/2021 9:18 AM By: ANACINO  
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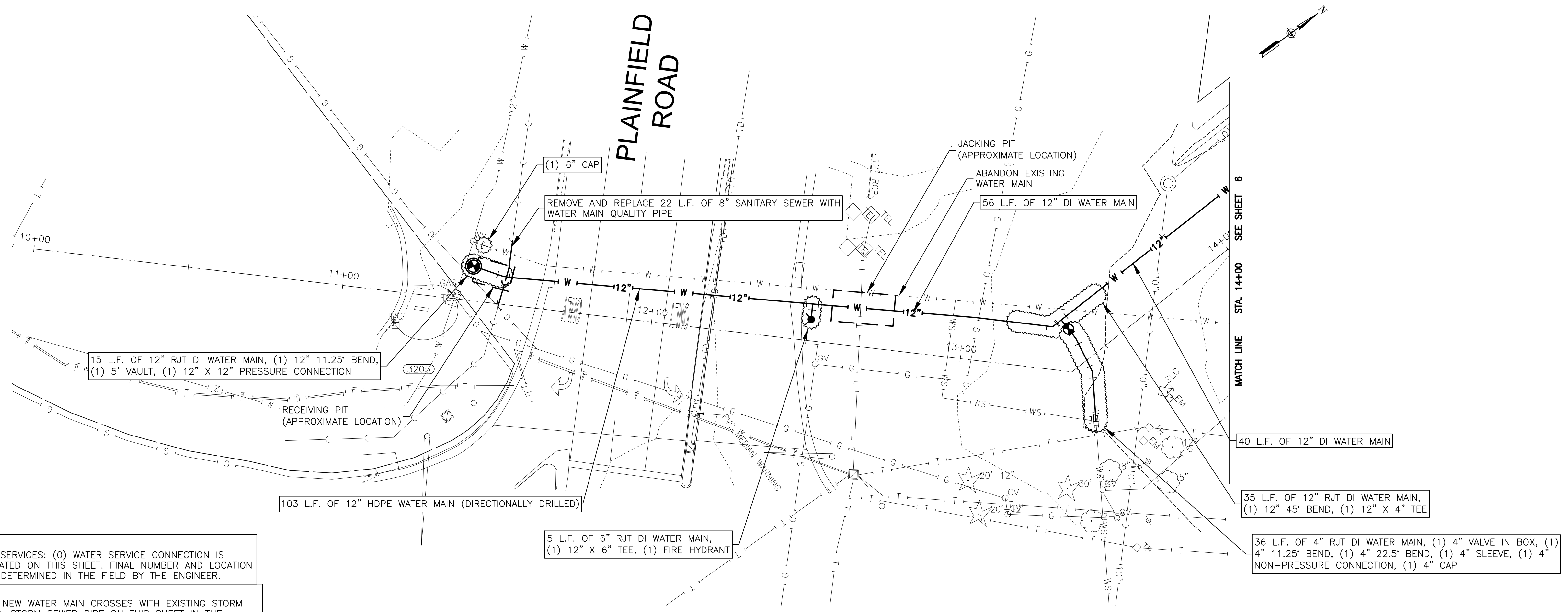
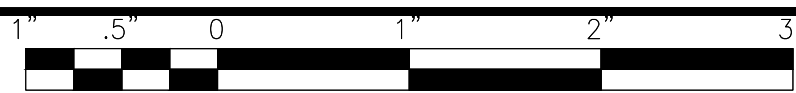
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**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

<b>SUGGESTED MAINTENANCE OF TRAFFIC DETOUR ROUTE</b>	
SCALE: AS NOTED	PROJECT NO: 210039.40

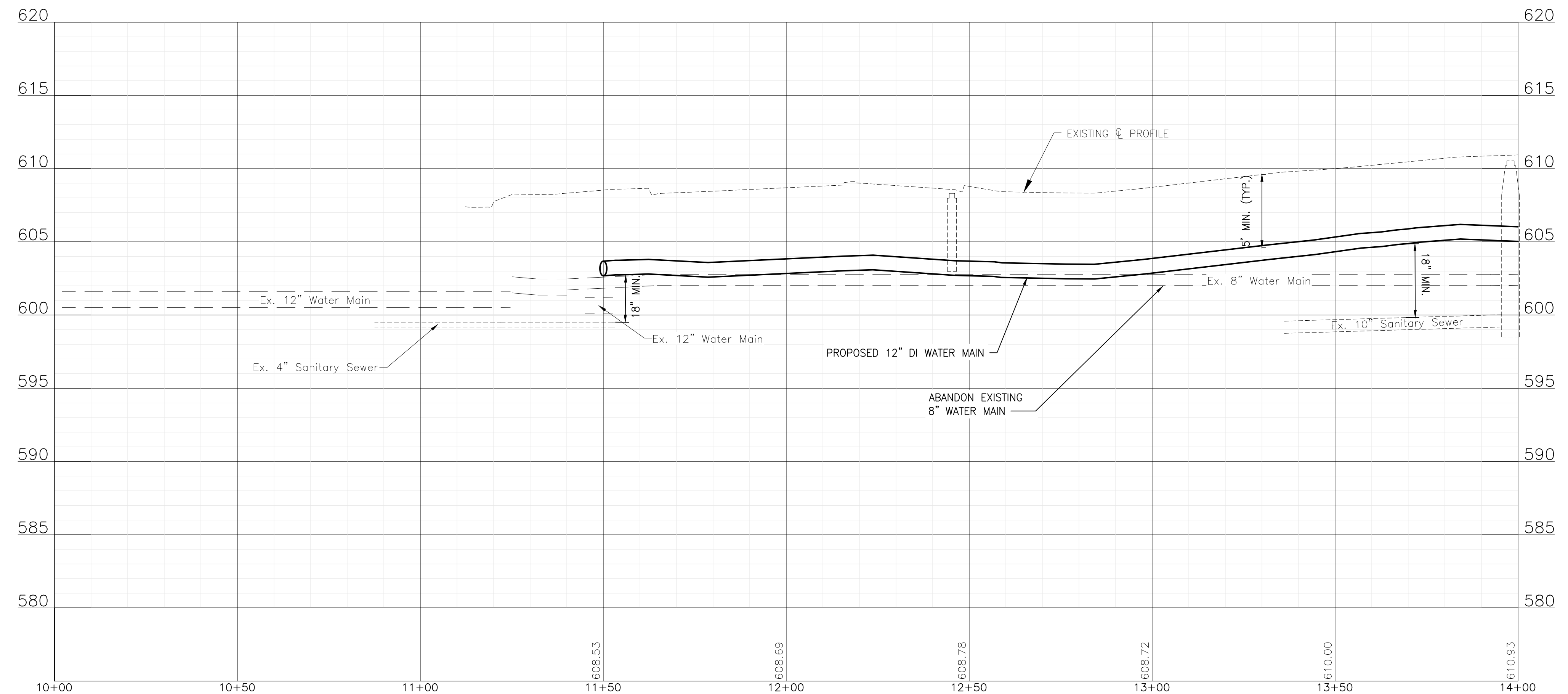
DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	4
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN



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



I:\AZURE\JOLIET\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039 DESIGN-SHEETS\ESSINGTON COM ED CROSSING CSD16.DWG 5 PLAINFIELD ROAD STA. 10+00 TO STA. 14+00 PLAN AND PROFILE  
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**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

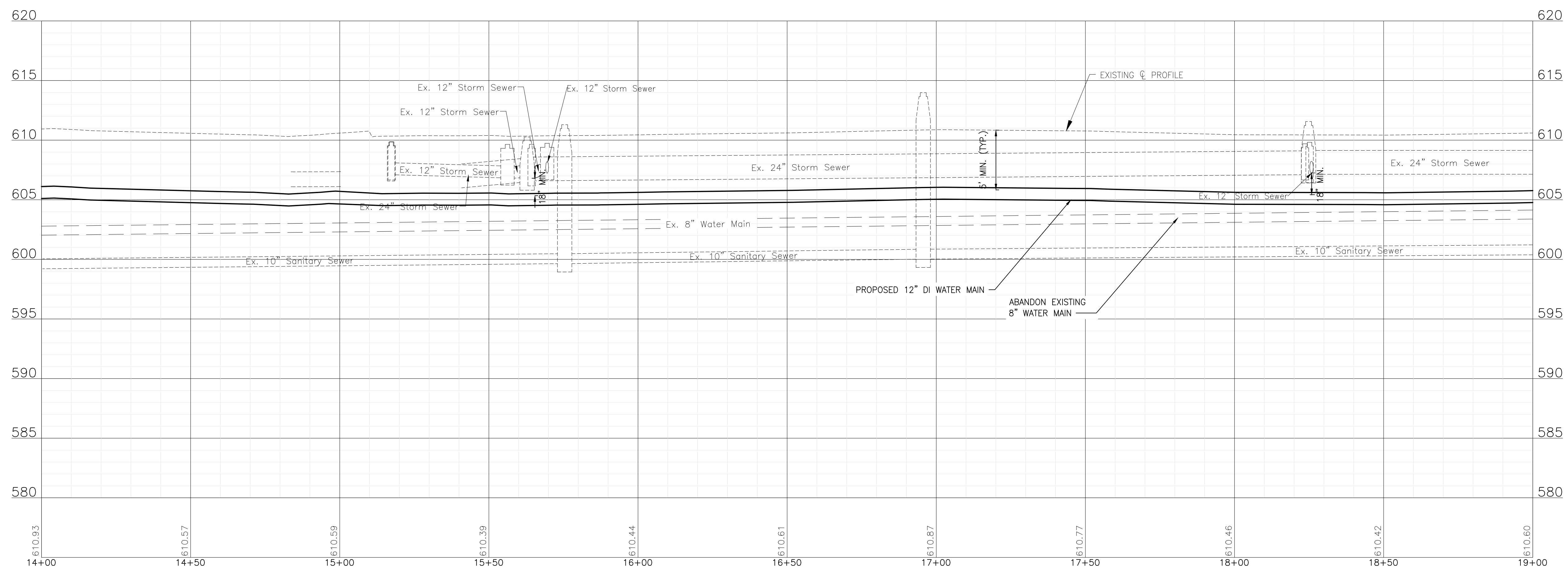
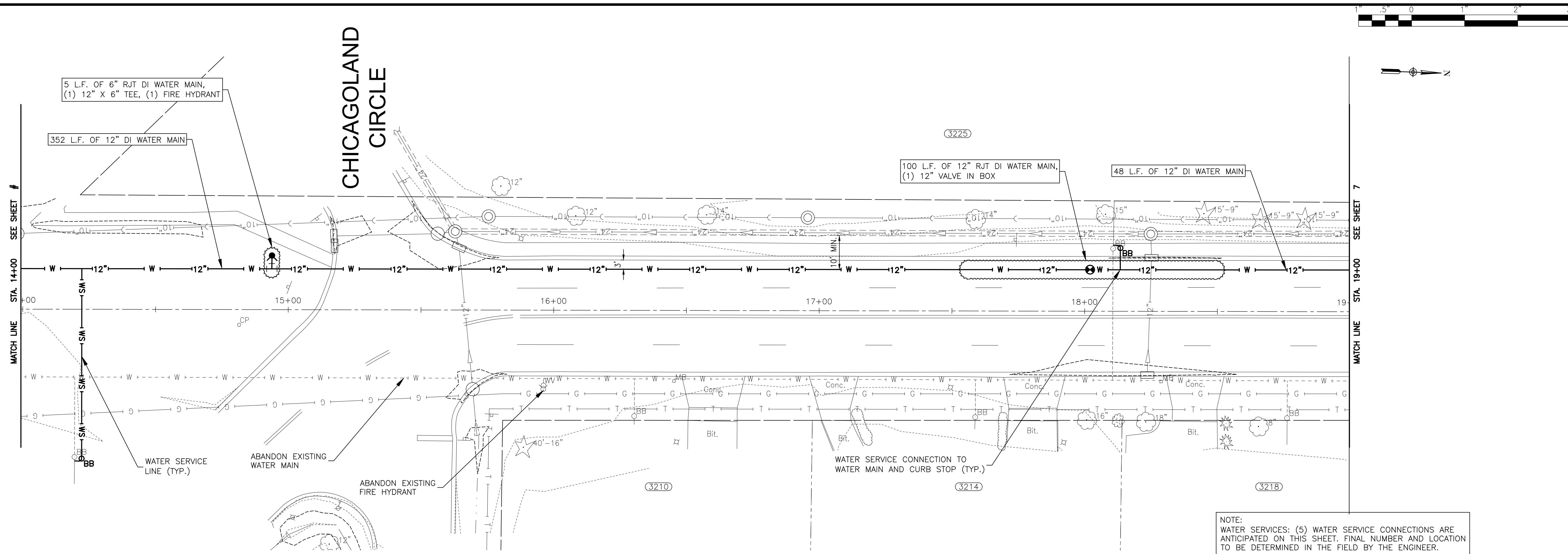
**PLAINFIELD ROAD STA. 10+00 TO STA. 14+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	5
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN



I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039 DESIGN-SHEET'S\ESSINGTON COM ED CROSSING CSD16.DWG 6 ESSINGTON ROAD STA. 14+00 TO STA. 19+00 PLAN AND PROFILE  
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	REVISED -

**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

**ESSINGTON ROAD STA. 14+00 TO STA. 19+00 PLAN AND PROFILE**

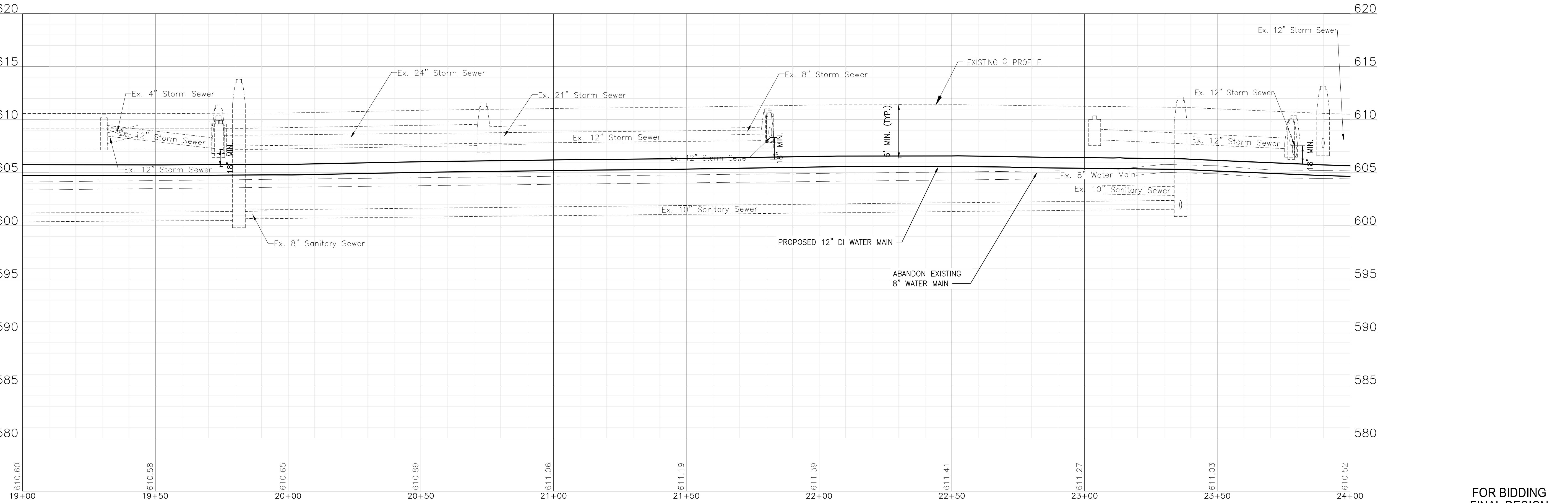
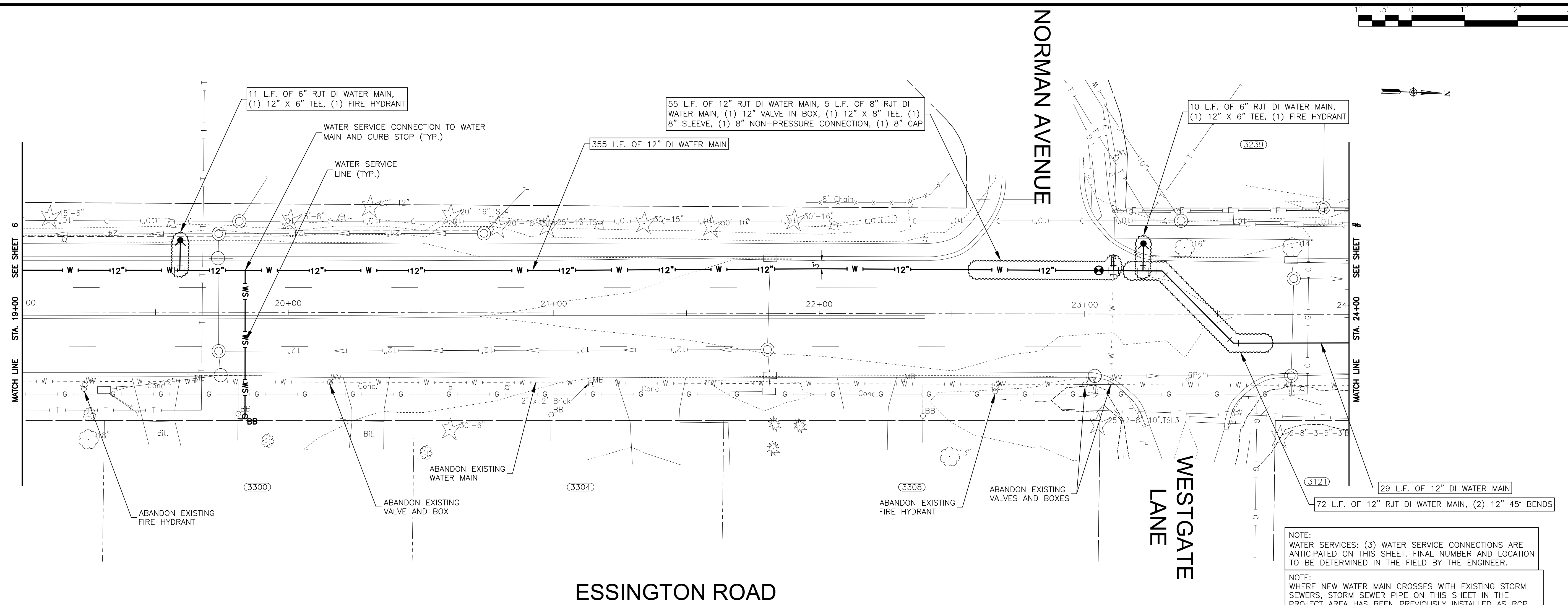
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 210039.40

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	6
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN

I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039 DESIGN-SHEET\ESSINGTON COM ED CROSSING C3D16.DWG 7 ESSINGTON ROAD STA. 19+00 TO STA. 24+00 PLAN AND PROFILE  
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NOTE:  
 WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. 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.



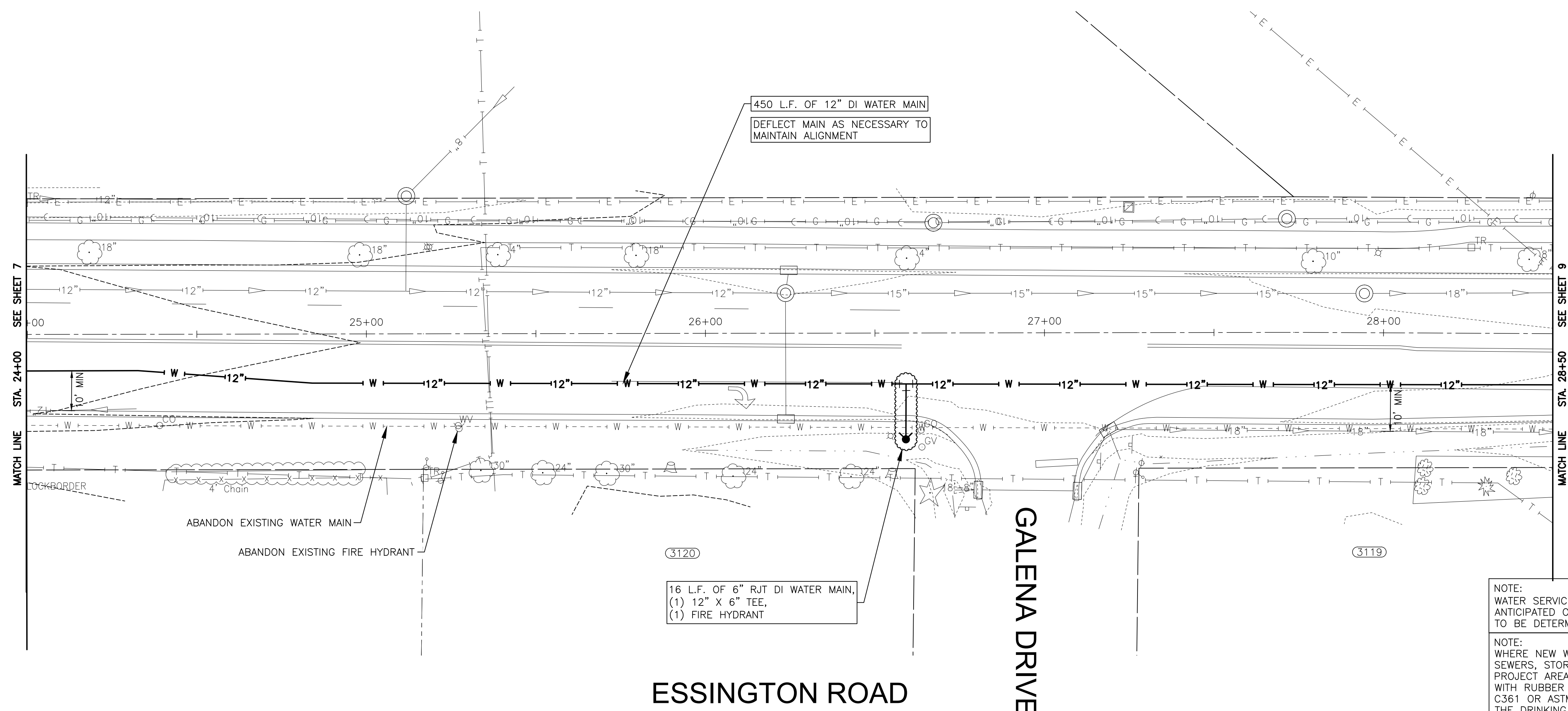
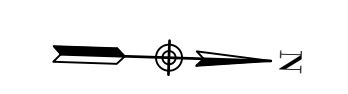
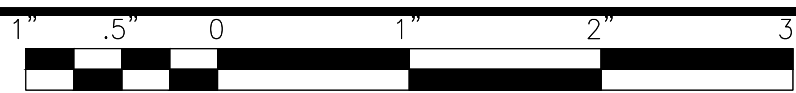
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**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

<b>ESSINGTON ROAD STA. 19+00 TO STA. 24+00 PLAN AND PROFILE</b>		DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
SCALE: HORIZ 1"=20' / VERT 1"=5'		DRAWN - TJB/JJS	15	7
PROJECT NO: 210039.40		CHECKED - LMS		
		DATE - 12/16/21		

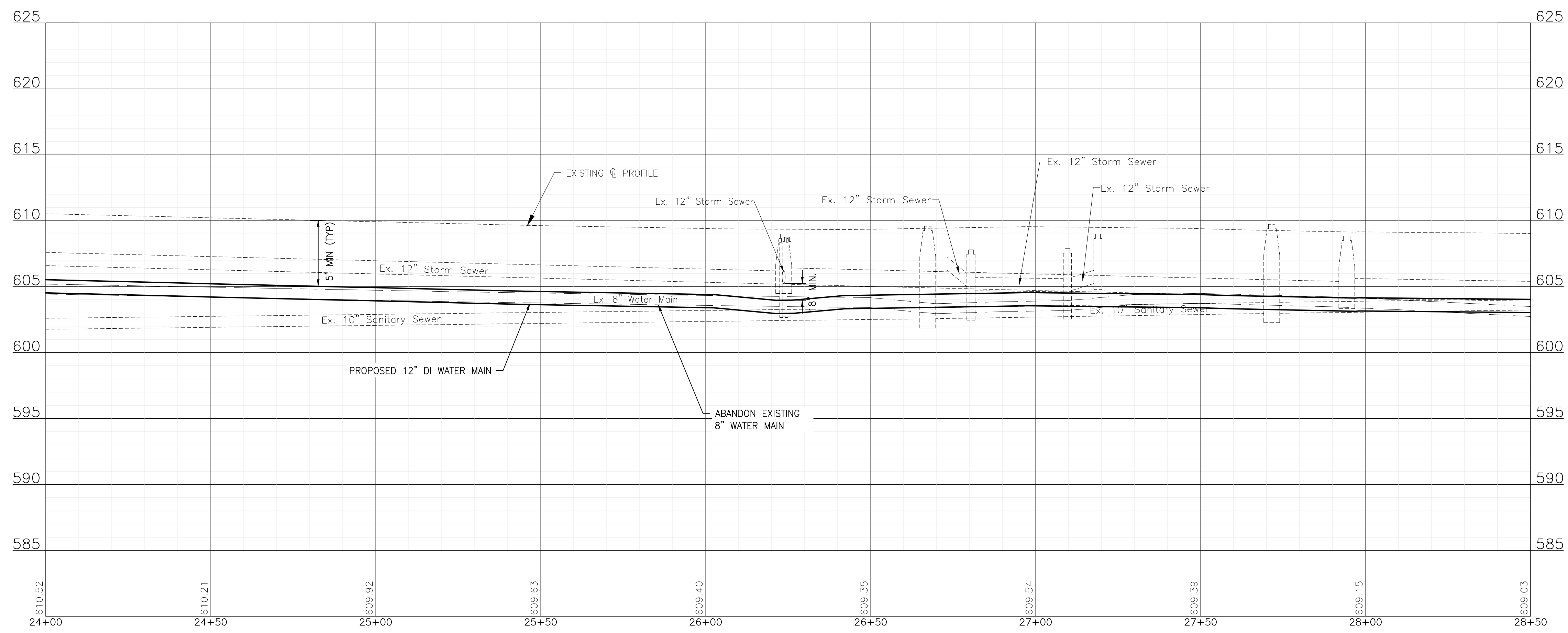
FOR BIDDING  
 FINAL DESIGN





NOTE:  
WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. 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.



I:\AZURE\JOLIET\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039 DESIGN-SHEET'S\ESSINGTON COM ED CROSSING CSD16.DWG 8 ESSINGTON ROAD STA. 24+00 TO STA 28+50 PLAN AND PROFILE  
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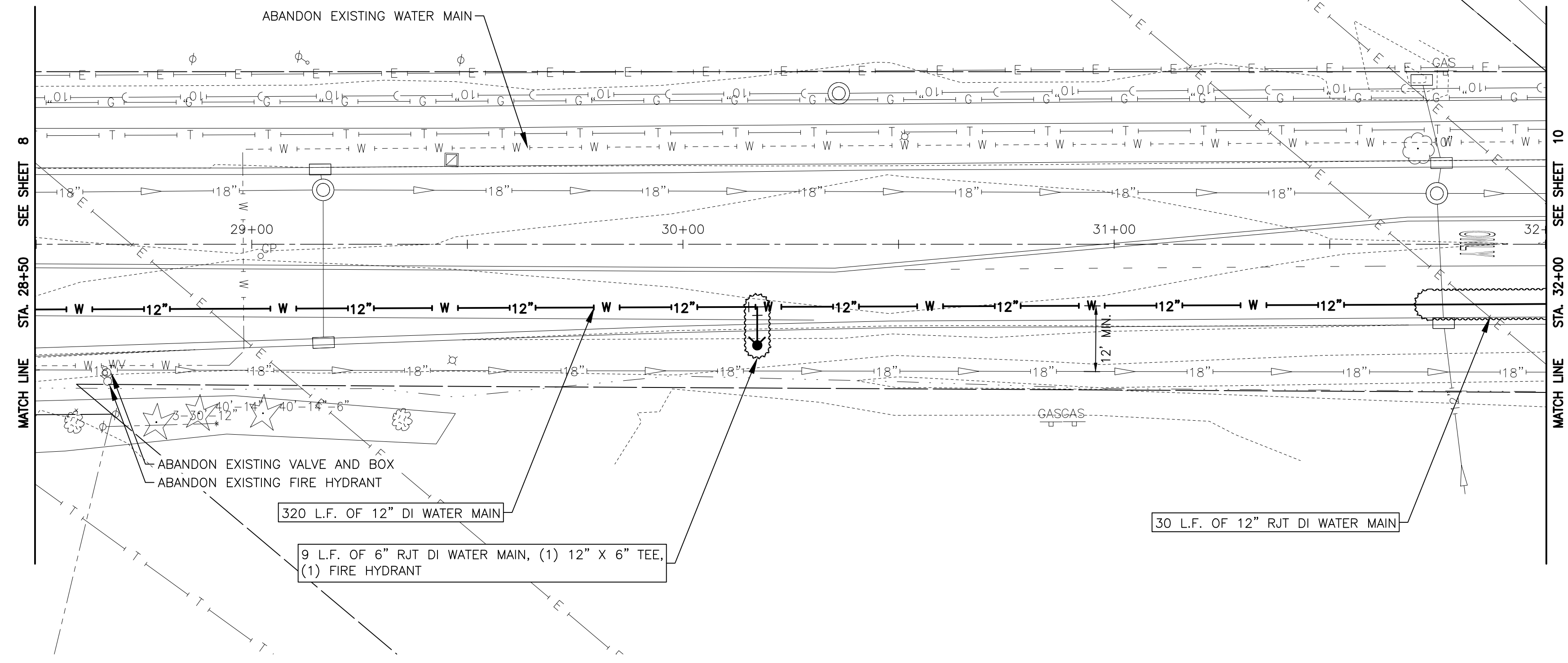
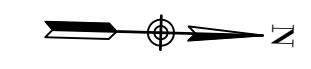
**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

**ESSINGTON ROAD STA. 24+00 TO STA 28+50 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	8
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN

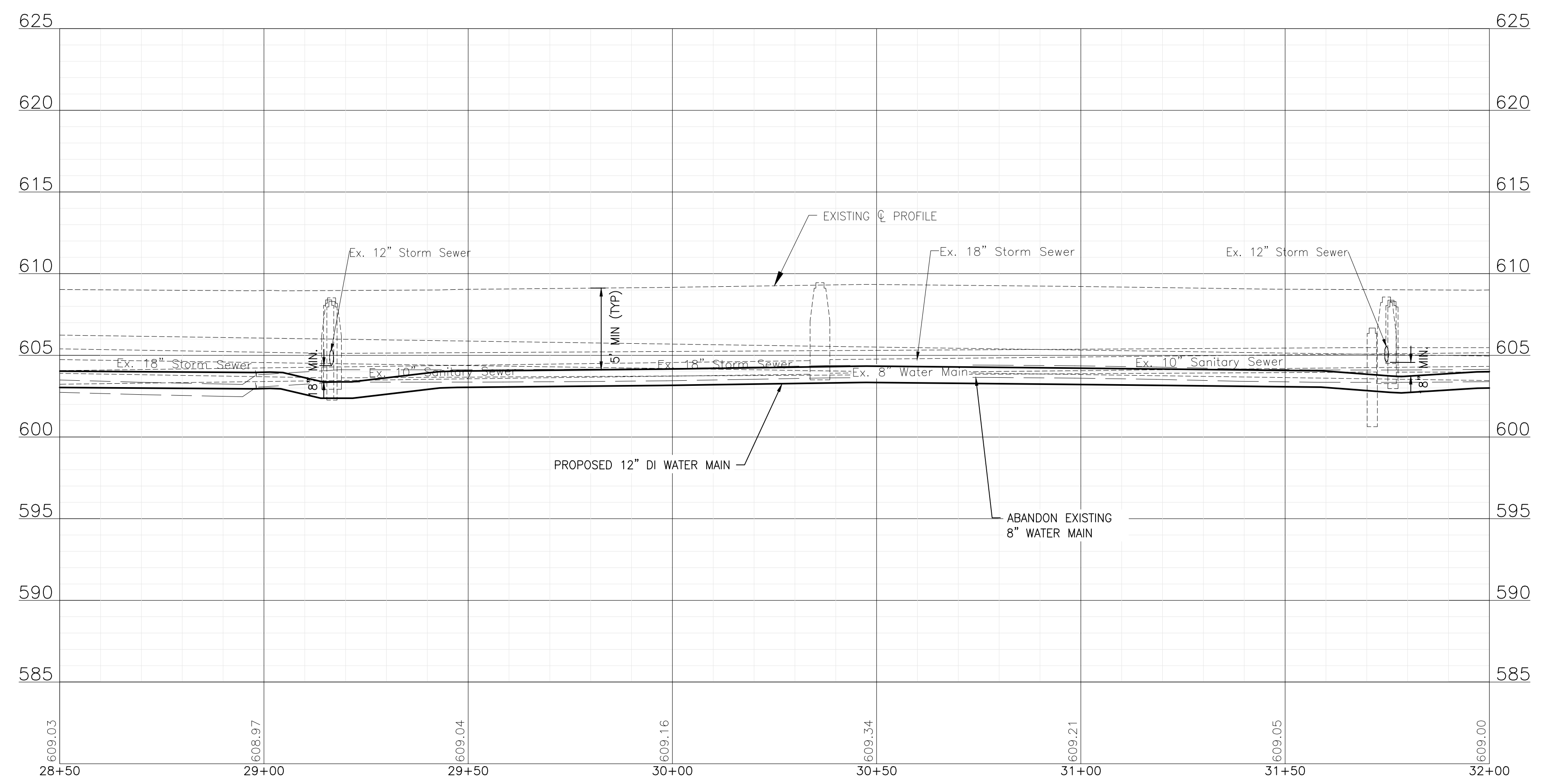




ESSINGTON ROAD

NOTE:  
WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. 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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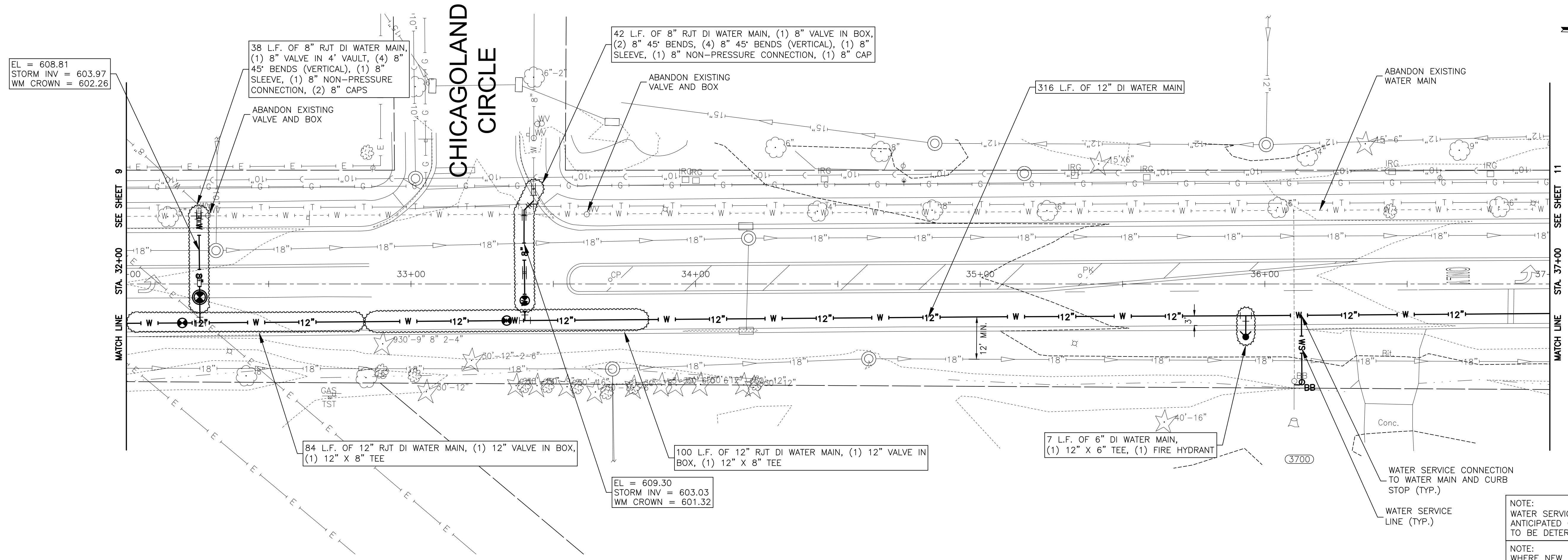
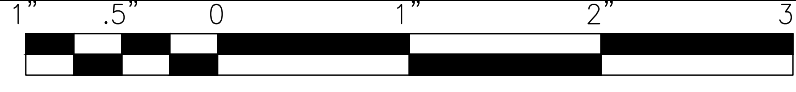
**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

**ESSINGTON ROAD STA. 28+50 TO STA 32+00 PLAN AND PROFILE**

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

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	9
CHECKED - LMS		
DATE - 12/16/21		

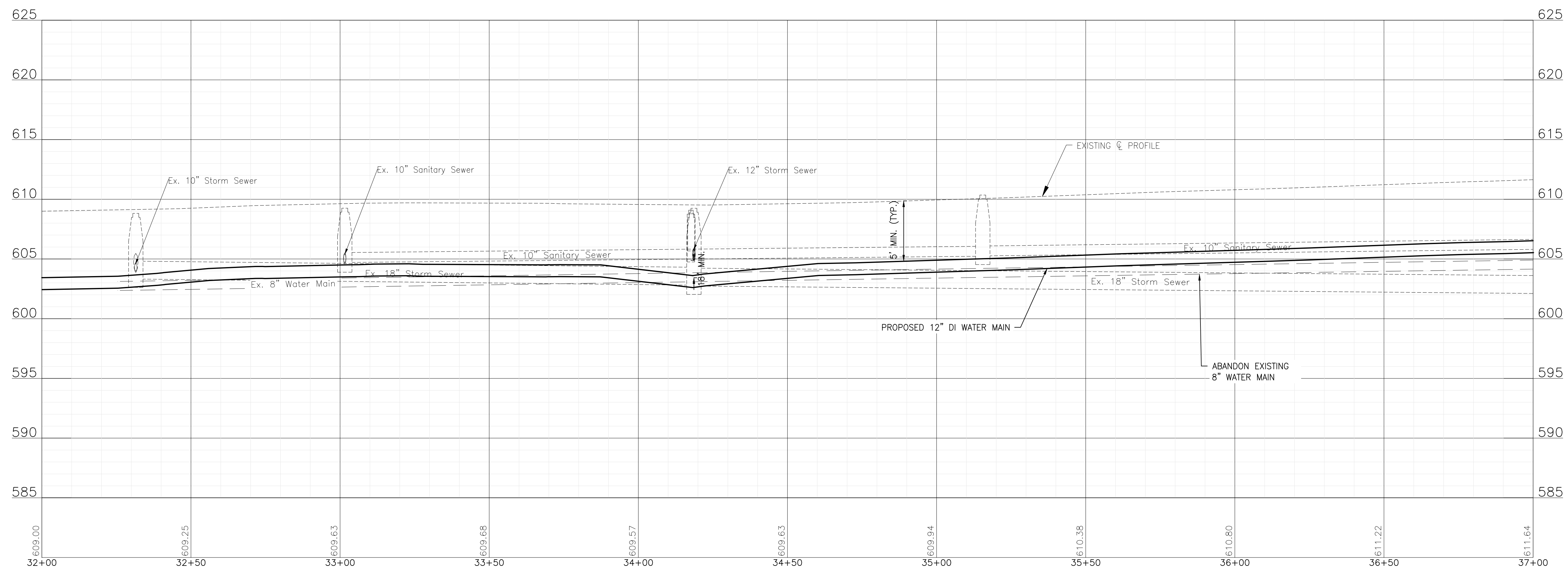
FOR BIDDING  
FINAL DESIGN



**ESSINGTON ROAD**

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

NOTE:  
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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**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

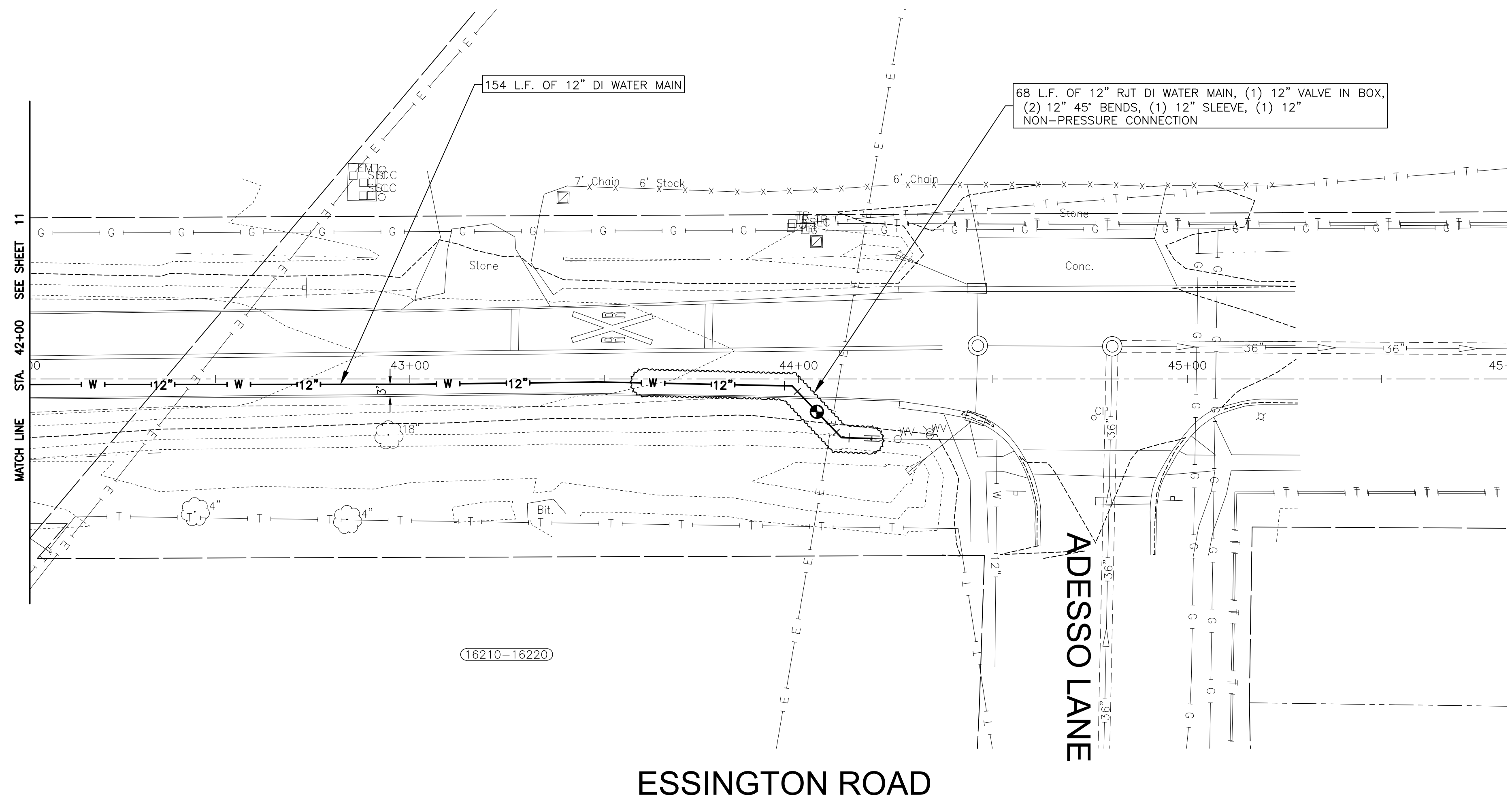
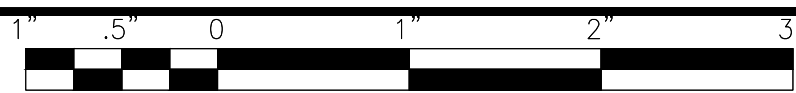
**ESSINGTON ROAD STA. 32+00 TO STA 37+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	10
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN

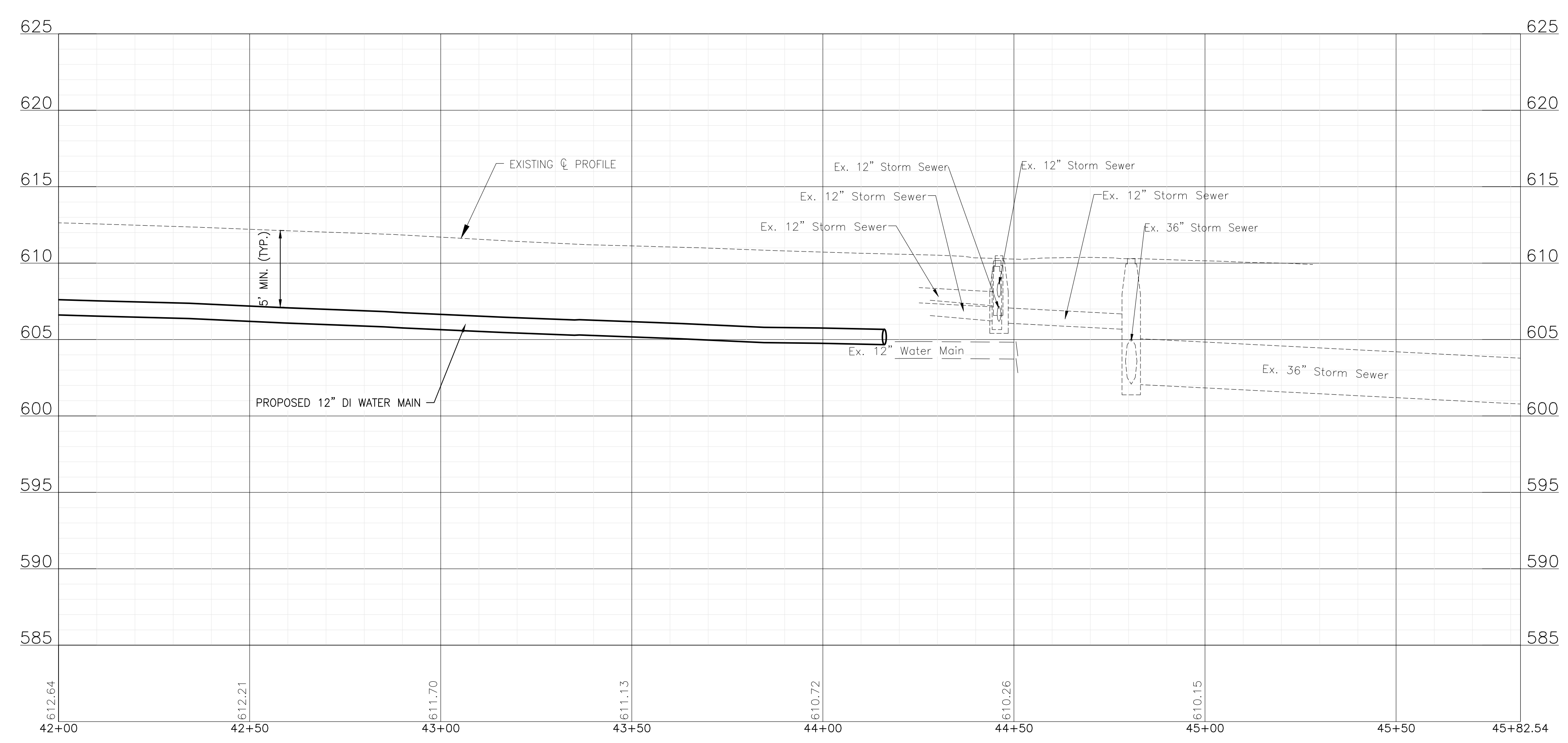






NOTE:  
WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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.



I:\AZURE\JOL\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039 DESIGN-SHEET'S\ESSINGTON COM ED CROSSING CSD16.DWG 12 ESSINGTON ROAD STA. 42+00 TO STA 46+00 PLAN AND PROFILE  
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**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

**ESSINGTON ROAD STA. 42+00 TO STA 46+00 PLAN AND PROFILE**  
 SCALE: HORIZ 1"=20' / VERT 1"=5'  
 PROJECT NO: 210039.40

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	12
CHECKED - LMS		
DATE - 12/16/21		

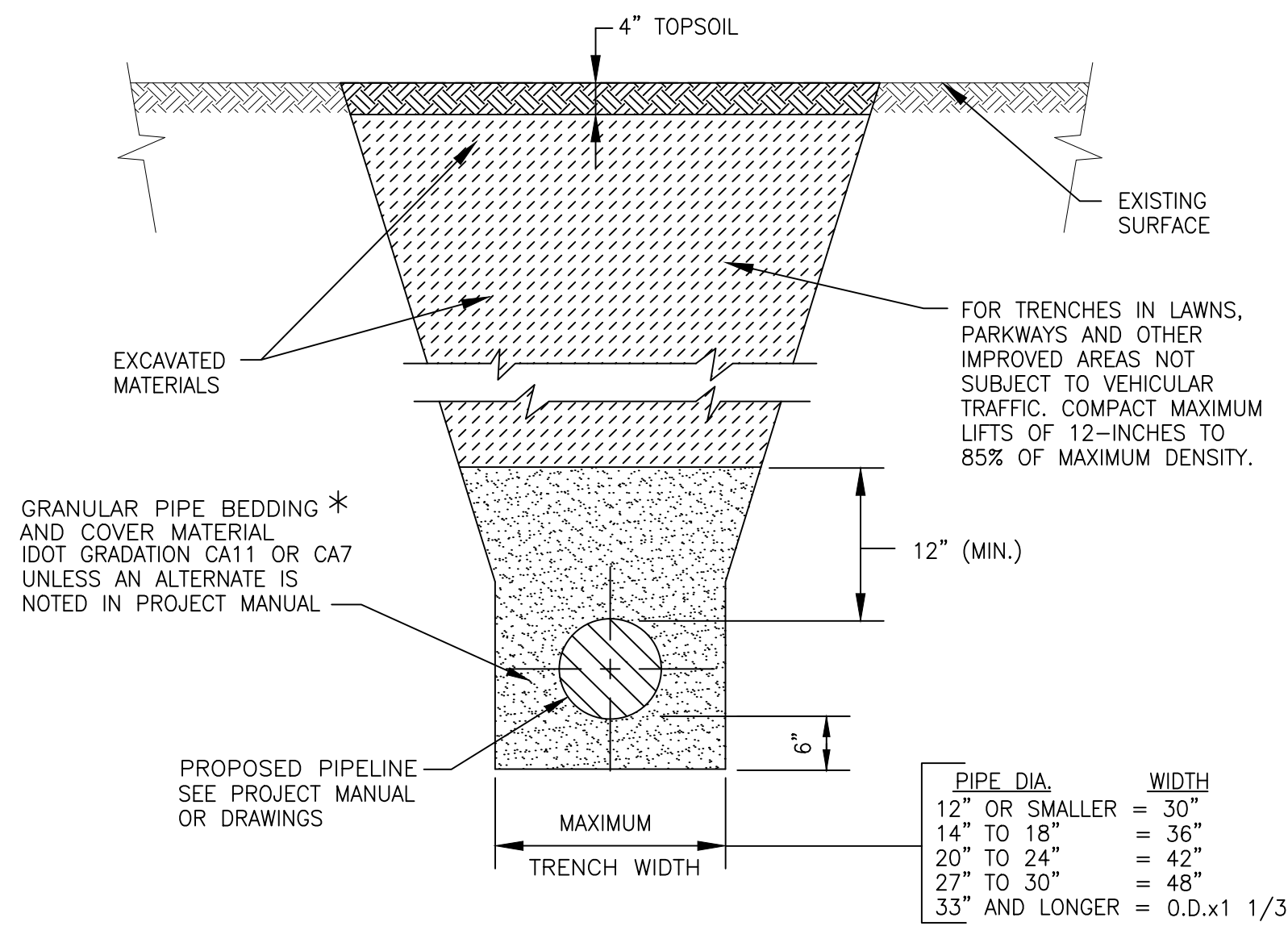
FOR BIDDING  
FINAL DESIGN







- 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

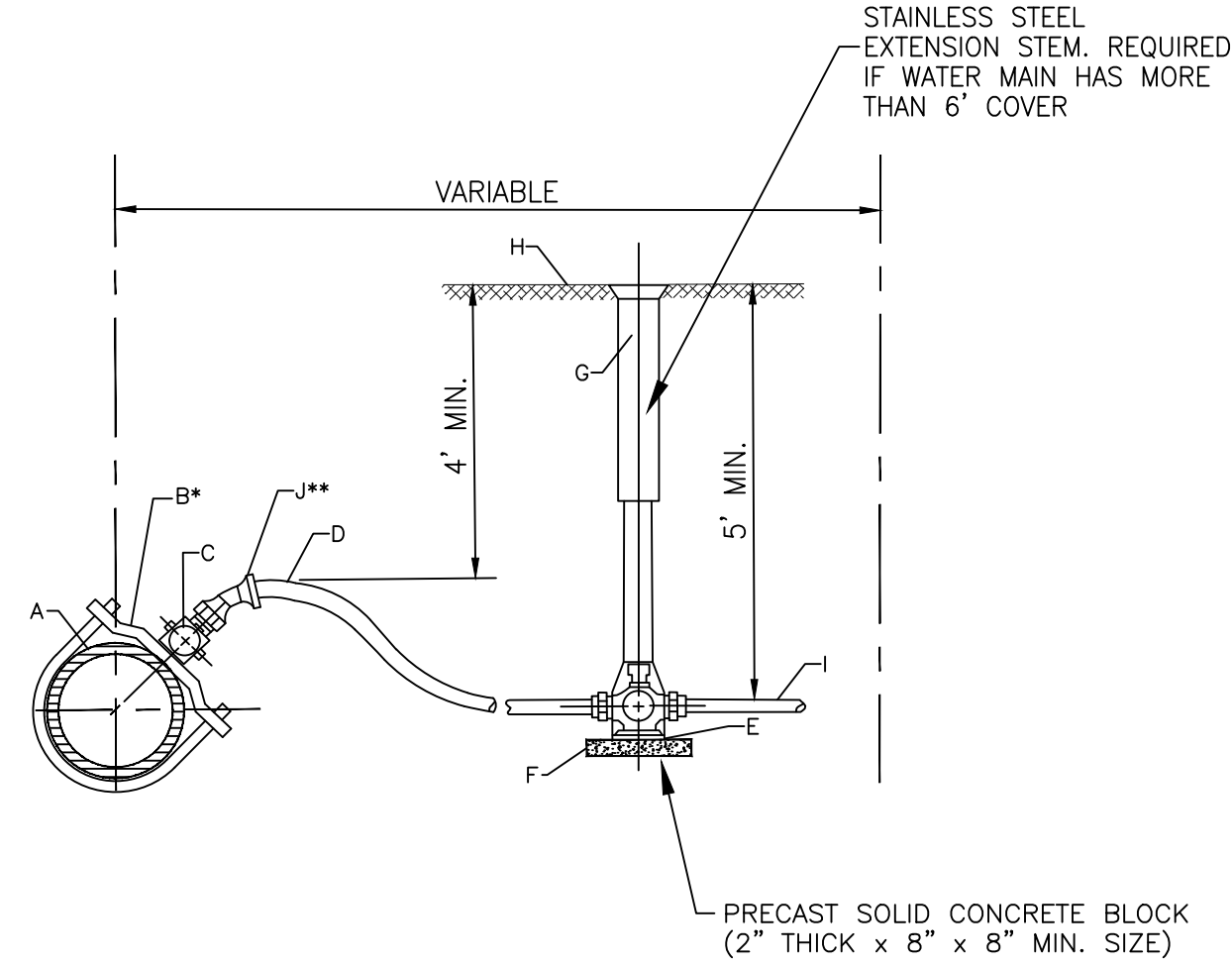
NOT TO SCALE

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

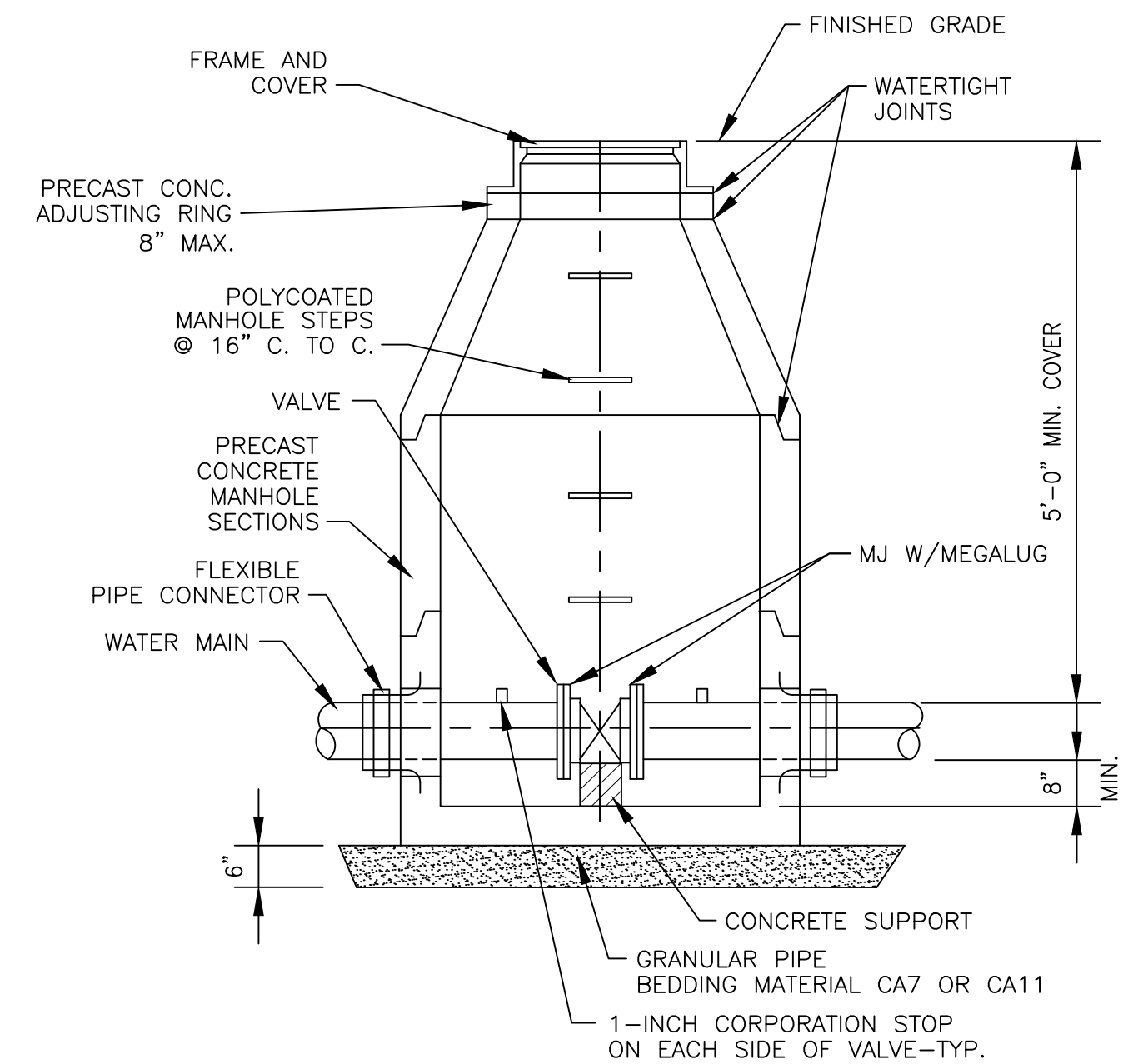
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE  
CONNECTION DETAIL  
WTR-06

DATE: OCT. 2020



NOTES:

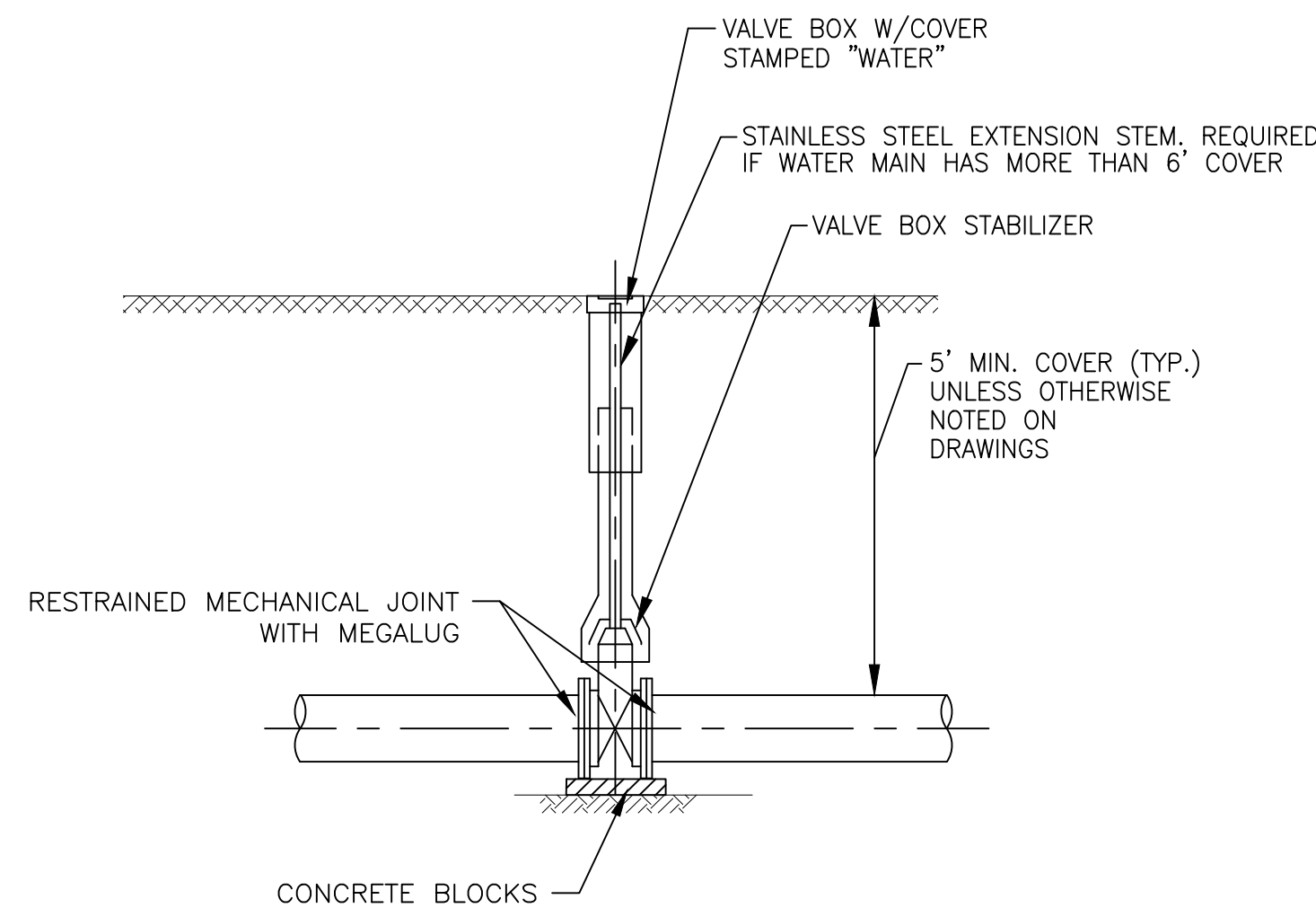
- CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
- USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
- PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER".  
EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT  
DETAIL  
WTR-01

DATE: OCT. 2017

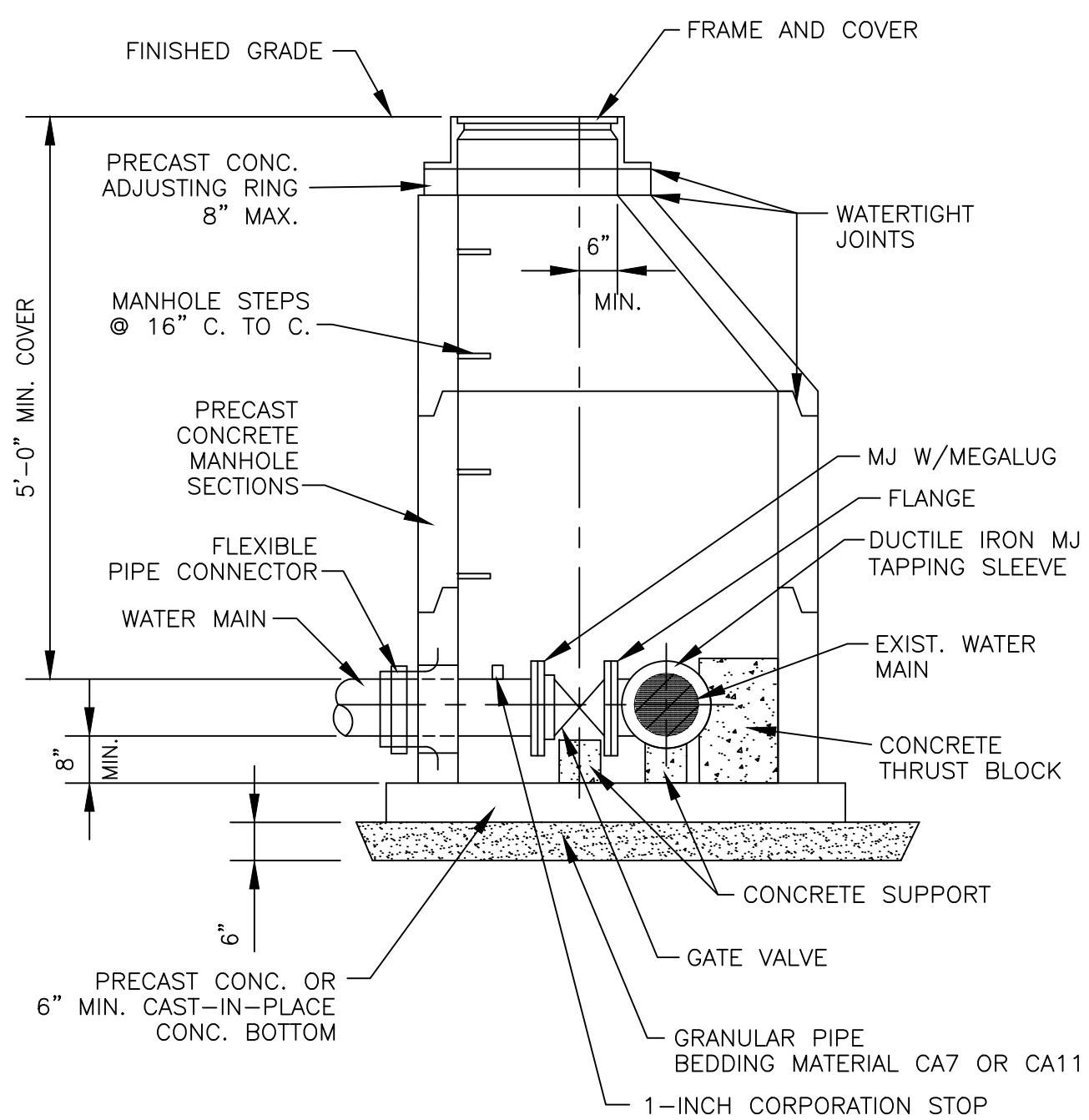


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX  
DETAIL  
WTR-02

DATE: OCT. 2017



NOTES:

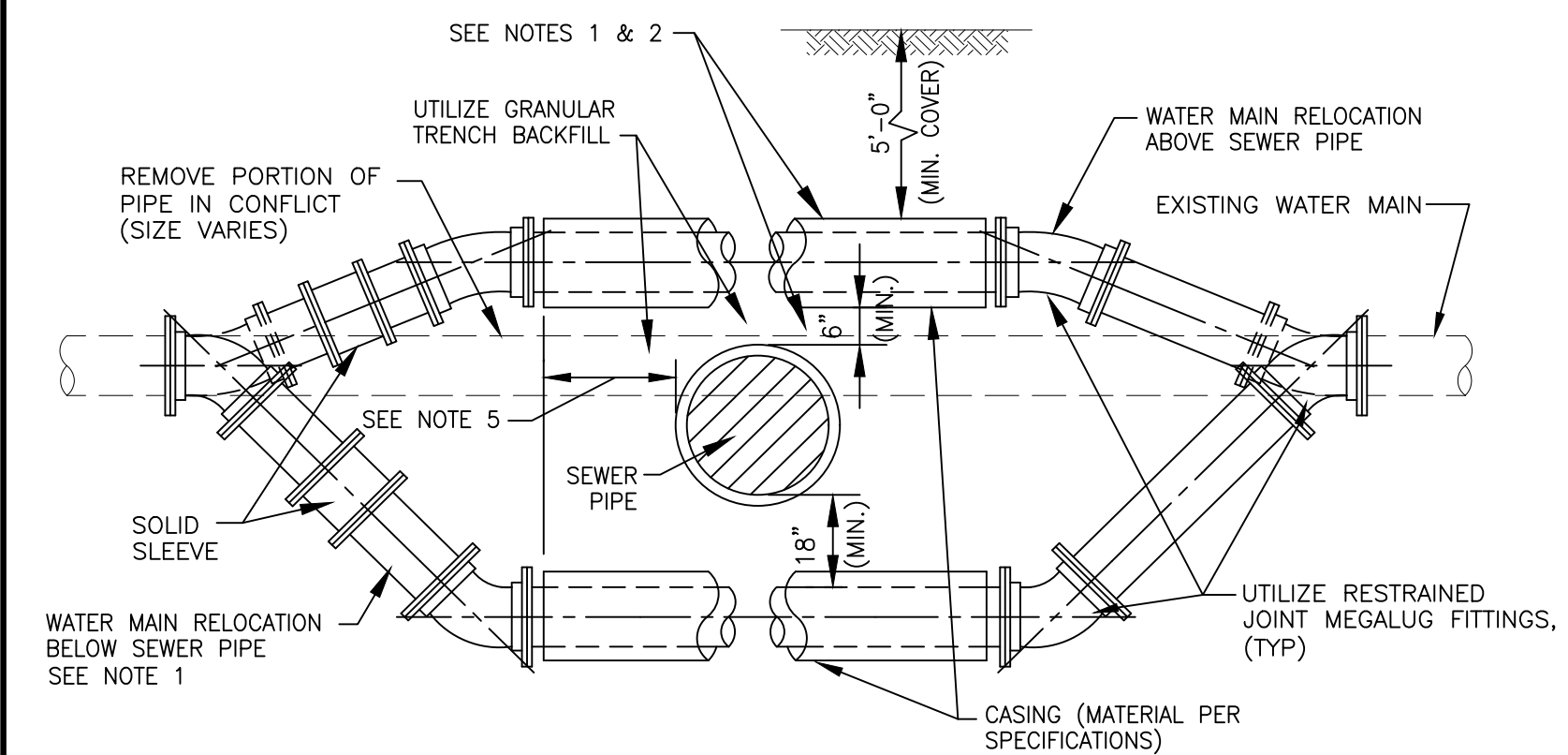
- ECCENTRIC CONE REQUIRED
- USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8",  
USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14",  
USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
- PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET"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

I:\AZURE\JOLTC\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039-COVER\_GEN\_ESSINGTON COMED CROSSING.DWG 14 DETAILS  
 Plotted: 12/9/2021 9:19 AM By: ANACINO  
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**BAXTER & WOODMAN**  
 Consulting Engineers

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS  
 ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS  
 CITY OF JOLIET CONTRACT NO. 2616-0222

SCALE: AS NOTED

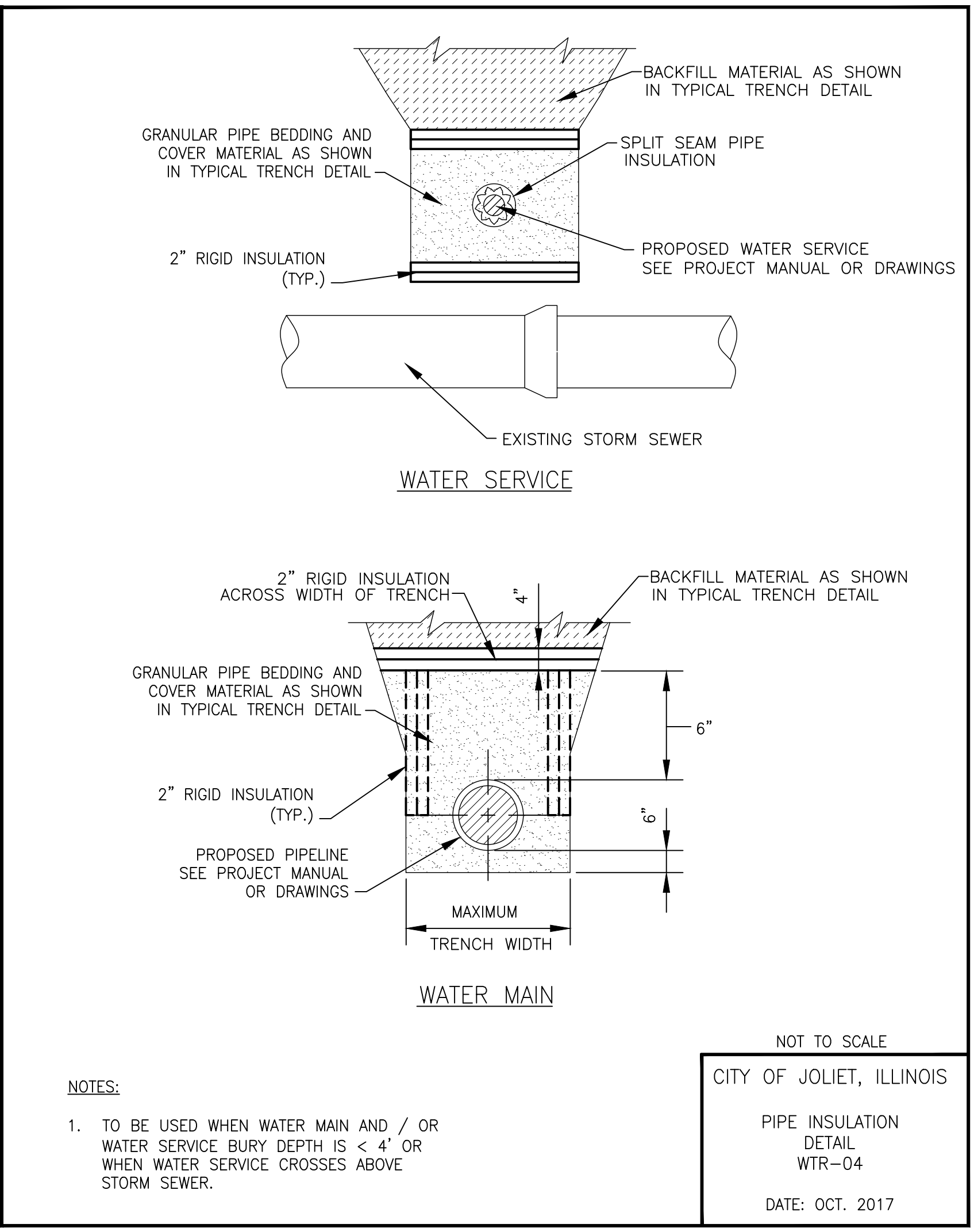
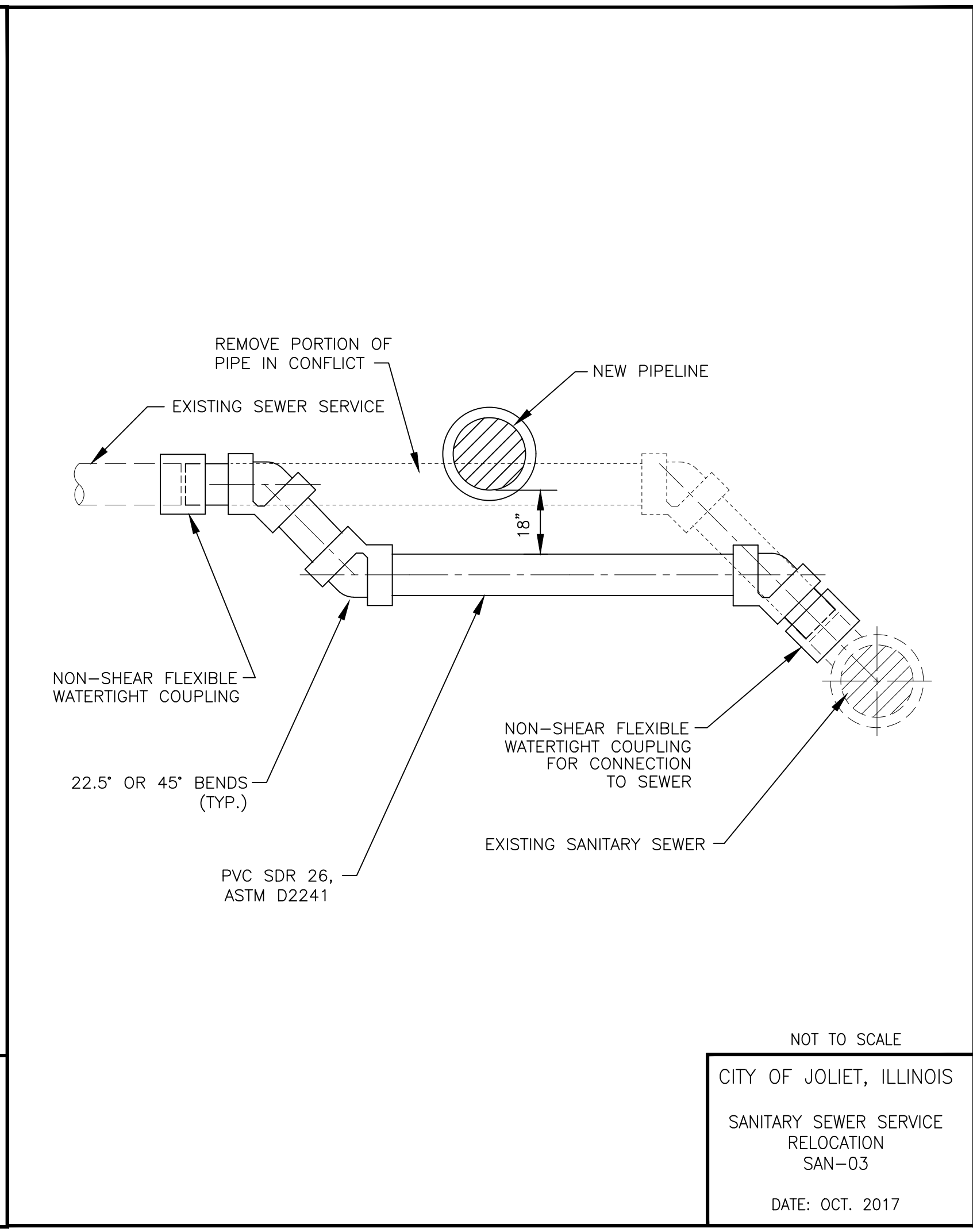
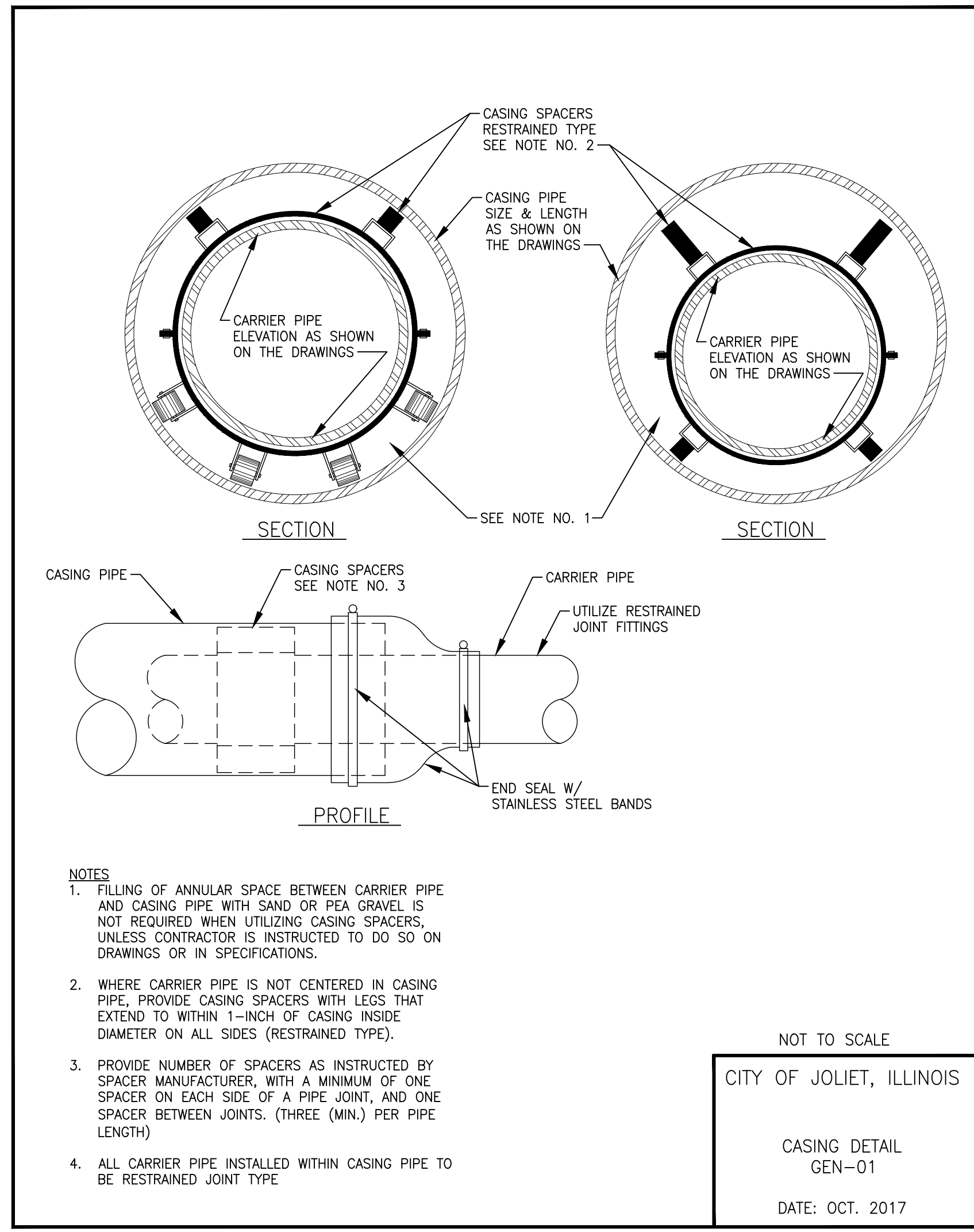
DETAILS

PROJECT NO: 210039.40

DESIGNED -	TOTAL SHEETS	SHEET NO.
WJW	15	14
DRAWN -		
TJB/JJS		
CHECKED -		
LMS		
DATE -		
12/16/21		

FOR BIDDING  
 FINAL DESIGN





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
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	-

I:\AZURE\JOLTC\210039-2022 WATER MAIN\CAD\ESSINGTON COMED CROSSING\DWGS\CURRENT\210039-COVER\_GEN\_ESSINGTON COMED CROSSING.DWG 15 DETAILS  
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CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS**  
**ESSINGTON COMED CROSSING WATER MAIN IMPROVEMENTS**  
**CITY OF JOLIET CONTRACT NO. 2616-0222**

<b>DETAILS</b>	
SCALE: AS NOTED	PROJECT NO: 210039.40

DESIGNED - WJW	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/JJS	15	15
CHECKED - LMS		
DATE - 12/16/21		

FOR BIDDING  
FINAL DESIGN