

CITY OF JOLIET, ILLINOIS

WEST ACRES WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2610-0122



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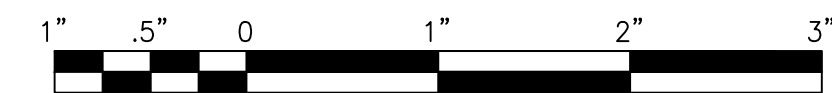
J.U.L.I.E. DESIGN STAGE REQUEST
DIG NO. X0571091
EXISTING UTILITIES:
WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY 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.

Lauren M. Schillo
PROJECT MANAGER
"LICENSE EXPIRES 11-30-2021"

Peter M. Kozan
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\JOLTC\210039-2022 WATER MAIN\CAD\WEST ACRES\DWG\CURRENT\210039-COVER_GEN_WEST ACRES.DWG 1 COVER
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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. # 525		SOUTHEAST ARROW BOLT OF FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF LARKIN AVENUE AND WEST ACRES ROAD ELEV. = 655.54
B.M. # 526		SOUTHEAST FLANGE BOLT OF FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF LARKIN AVENUE AND TAYLOR STREET ELEV. = 653.79
B.M. # 527		SOUTHEAST FLANGE BOLT OF FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF LARKIN AVENUE AND MAYFIELD AVENUE ELEV. = 654.80
B.M. # 528		RAILROAD SPIKE SET IN SOUTH FACE OF UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF WESTMINSTER ROAD AND MAYFIELD AVENUE ELEV. = 651.54
B.M. # 529		RAILROAD SPIKE SET IN SOUTH FACE OF UTILITY POLE LOCATED AT NORTHEAST CORNER OF WESTMINSTER ROAD AND TAYLOR STREET ELEV. = 652.89
B.M. # 530		RAILROAD SPIKE SET IN SOUTHWEST FACE OF UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF WESTMINSTER ROAD AND WEST ACRES ROAD ELEV. = 658.24
B.M. # 531		RAILROAD SPIKE SET IN NORTHEAST FACE OF UTILITY POLE LOCATED AT THE SOUTHWEST CORNER OF WOODLAWN AVENUE AND WEST ACRES ROAD ELEV. = 650.06
B.M. # 532		RAILROAD SPIKE SET IN NORTHEAST FACE OF UTILITY POLE LOCATED AT THE SOUTHWEST CORNER OF WOODLAWN AVENUE AND TAYLOR STREET ELEV. = 652.21
B.M. # 533		RAILROAD SPIKE SET IN NORTHWEST FACE OF UTILITY POLE LOCATED AT THE SOUTHEAST CORNER OF WOODLAWN AVENUE AND MAYFIELD AVENUE ELEV. = 652.40
B.M. # 534		RAILROAD SPIKE SET IN NORTH FACE OF UTILITY POLE LOCATED AT 1410 MAYFIELD AVENUE ELEV. = 654.78
B.M. # 535		RAILROAD SPIKE SET IN WEST FACE OF UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF MAYFIELD AVENUE AND MIDLAND AVENUE ELEV. = 656.01
B.M. # 536		RAILROAD SPIKE SET IN WEST FACE OF UTILITY POLE LOCATED AT THE SOUTHEAST CORNER OF MIDLAND AVENUE AND TAYLOR STREET ELEV. = 654.95
B.M. # 537		RAILROAD SPIKE SET IN SOUTH FACE OF UTILITY POLE LOCATED AT 1429 TAYLOR STREET ELEV. = 651.13
B.M. # 538		RAILROAD SPIKE SET IN WEST FACE OF UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF MIDLAND AVENUE AND WEST ACRES ROAD ELEV. = 654.70
B.M. # 539		RAILROAD SPIKE SET IN SOUTH FACE OF UTILITY POLE LOCATED AT 1501 WEST ACRES ROAD ELEV. = 654.77

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\WEST ACRES\DWGS\CURRENT\210039-COVER_GEN_WEST ACRES.DWG 2 LEGENDS BENCHMARKS AND ABBREVIATIONS
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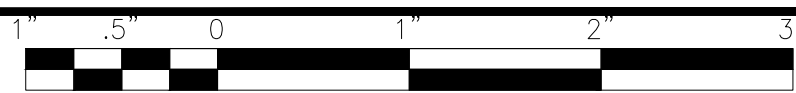
CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

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

DESIGNED -	TOTAL SHEETS	SHEET NO.
JJR	23	2
DRAWN - ABN-TJB		
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



CITY OF JOLIET WATER SYSTEM GENERAL NOTES

- 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.
- 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.
 - ALL STREETS 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.

SUMMARY OF QUANTITIES

CITY OF JOLIET			
WEST ACRES 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	5,300
4	DUCTILE IRON WATER MAIN (OPEN CUT), 6-INCH	FOOT	264
5	DUCTILE IRON WATER MAIN (OPEN CUT), 8-INCH	FOOT	8,022
6	DUCTILE IRON WATER MAIN (OPEN CUT), 12-INCH	FOOT	944
7	MISCELLANEOUS FITTINGS	POUND	8,500
8	PROJECT MANAGEMENT	HOURL	3
9	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH	173
10	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH	1
11	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	1,578
12	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	25
13	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	3,420
14	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	25
15	WATER SERVICE LINE TYPE L, 3/4-INCH	FOOT	10
16	WATER SERVICE LINE TYPE L, 1-INCH	FOOT	10
17	WATER SERVICE LINE TYPE L, 1.5-INCH	FOOT	10
18	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE	EACH	1
19	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB	EACH	1
20	UTILITY LOCATION - PRIVATE PROPERTY	EACH	1
21	WATER METER RELOCATION	EACH	1
22	WATER METER REPLACEMENT	EACH	1
23	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	4
24	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	9
25	CONNECT TO WATER MAIN (NON-PRESSURE), 12-INCH	EACH	1
26	GATE VALVE, 8-INCH	EACH	25
27	GATE VALVE, 12-INCH	EACH	7
28	VALVE BOX	EACH	23
29	VALVE VAULT, 4-FOOT DIAMETER	EACH	2
30	VALVE VAULT, 5-FOOT DIAMETER	EACH	7
31	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT	2
32	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	VFT	2
33	FIRE HYDRANT	EACH	26
34	FIRE HYDRANT BARREL EXTENSION	VFT	1
35	LINE STOP, 6-INCH	EACH	1
36	LINE STOP, 8-INCH	EACH	2
37	LINE STOP, 12-INCH	EACH	1
38	LINE STOP, 16-INCH	EACH	1
39	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
40	STORM SEWER REMOVAL AND REPLACEMENT, 12"	FOOT	36
41	CASING PIPE (OPEN CUT), 16-INCH	FOOT	146
42	INLET PROTECTION FILTER	EACH	74
43	TEMPORARY HOT-MIX ASPHALT PAVEMENT	SOYD	120
44	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5" BINDER 1.5" SURFACE	SOYD	5,580
45	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 10.5" BINDER 1.5" SURFACE	SOYD	990
46	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SOYD	50
47	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SOYD	875
48	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,030
49	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	14,200
50	DETECTABLE WARNINGS	SQFT	40
51	PAVEMENT MARKING, 6-INCH (THERMOPLASTIC)	FOOT	400
52	PAVEMENT MARKING, 24-INCH (THERMOPLASTIC)	FOOT	60
53	RESTORATION OF LAWNS AND PARKWAYS	SOYD	2,270
54	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT	170
55	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	30
56	DUST CONTROL	DAY	26
57	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	106
58	SOIL TESTS FOR CONTAMINANTS	EACH	11
59	CONTAMINATED WASTE DISPOSAL	CUYD	106
60	EXPLORATORY EXCAVATION	EACH	12
61	TREE ROOT PRUNING	EACH	8
62	TREE TRIMMING	LSUM	1
63	TREE REMOVAL AND REPLACEMENT	EACH	5
64	WATER SERVICE LOCATE	LSUM	1

I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\WEST ACRES\DWGS\CURRENT\210039-COVER_GEN_WEST ACRES.DWG 3 GENERAL NOTES AND SUMMARY OF QUANTITIES
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CONSULTANTS	REVISED -
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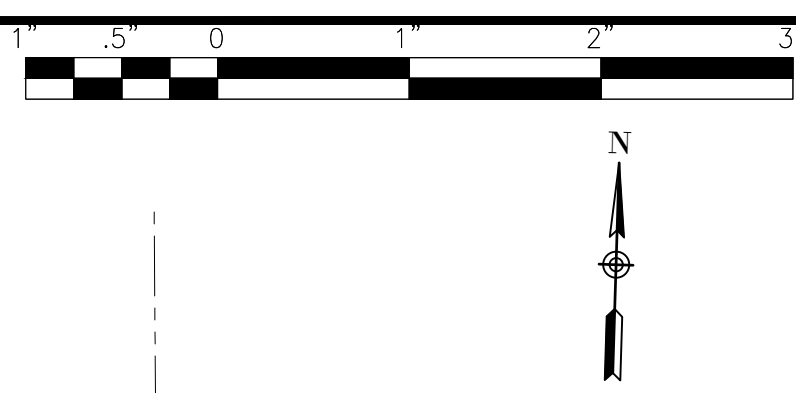
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WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

GENERAL NOTES, AND SUMMARY OF QUANTITIES

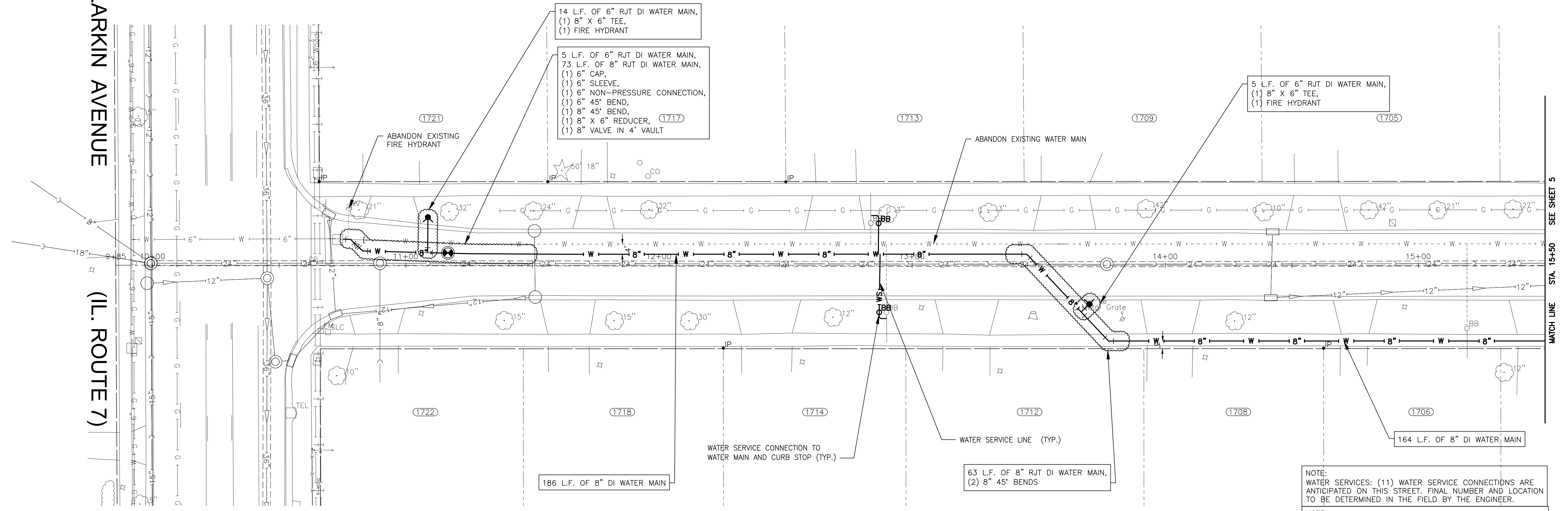
SCALE: AS NOTED PROJECT NO: 210039.40

FINAL DESIGN
FOR BIDDING

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	3
CHECKED - LMS		
DATE - 11/18/21		



LARKIN AVENUE
(IL. ROUTE 7)

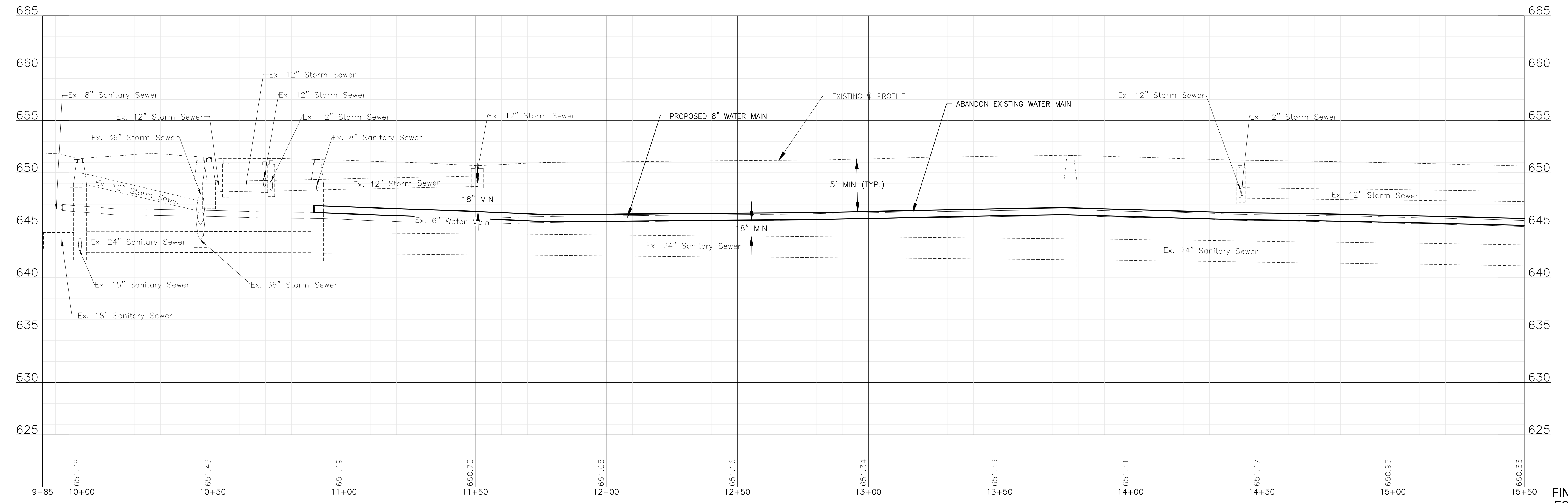


MAYFIELD

AVENUE

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.



FINAL DESIGN FOR BIDDING

I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\WEST ACRES\DWG\CURRENT\210039 DESIGN-SHEETS WEST ACRES.DWG 10+00
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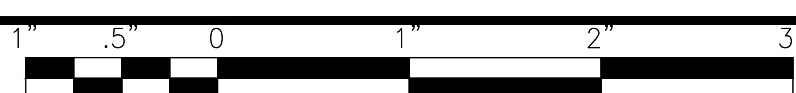


CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
 WEST ACRES WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2610-0122

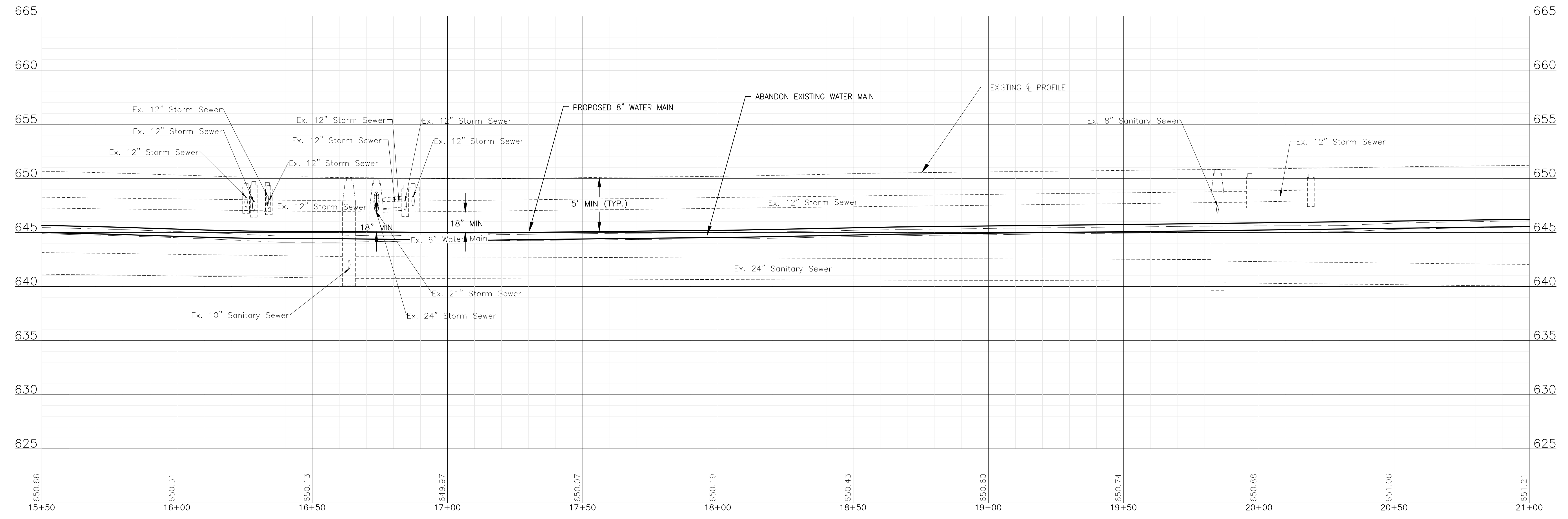
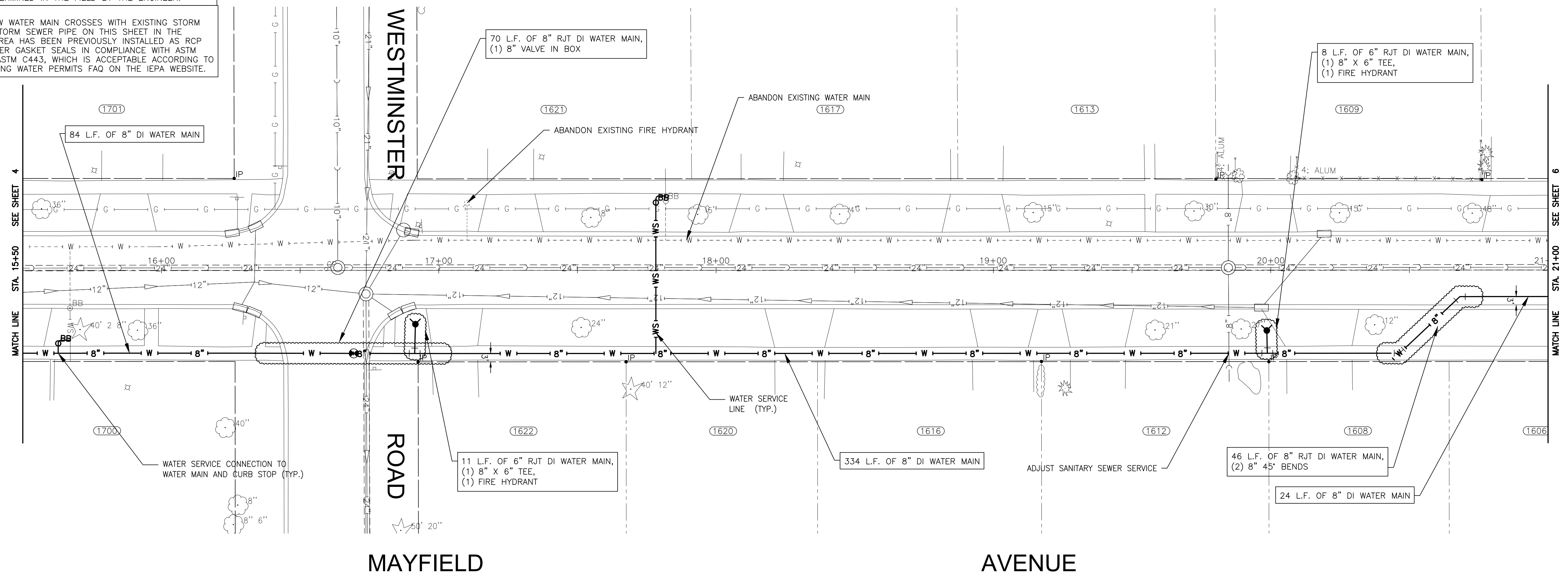
MAYFIELD AVENUE STA 9+75 TO STA 15+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	4
CHECKED - LMS		
DATE - 11/18/21		



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.



I:\AZURE\JOLIC\210039-2022 WATER MAIN\CAD\WEST ACRES\DWGS\CURRENT\210039 DESIGN-SHEETS WEST ACRES.DWG 15+50.00
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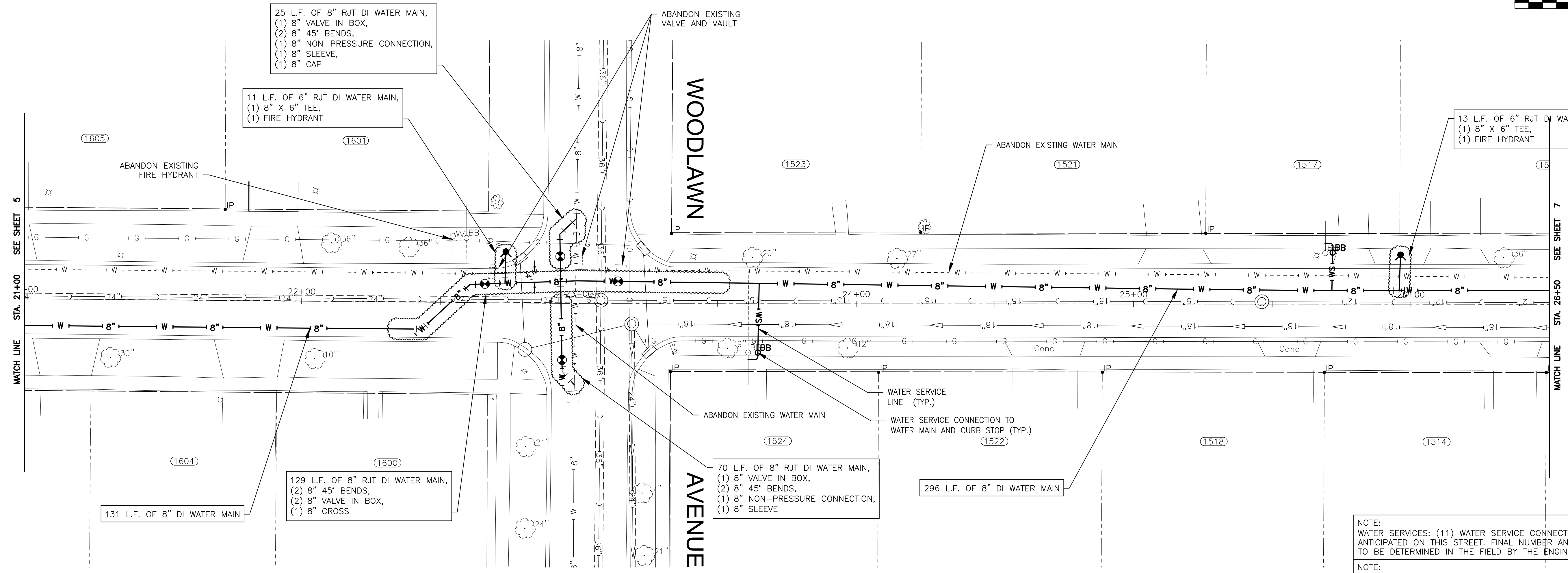
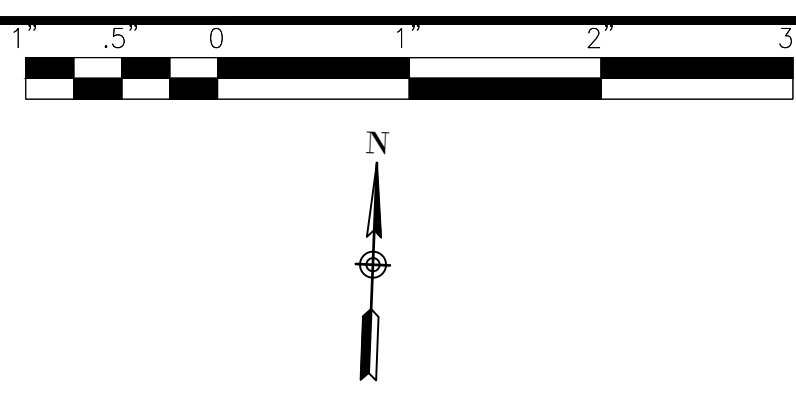
CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

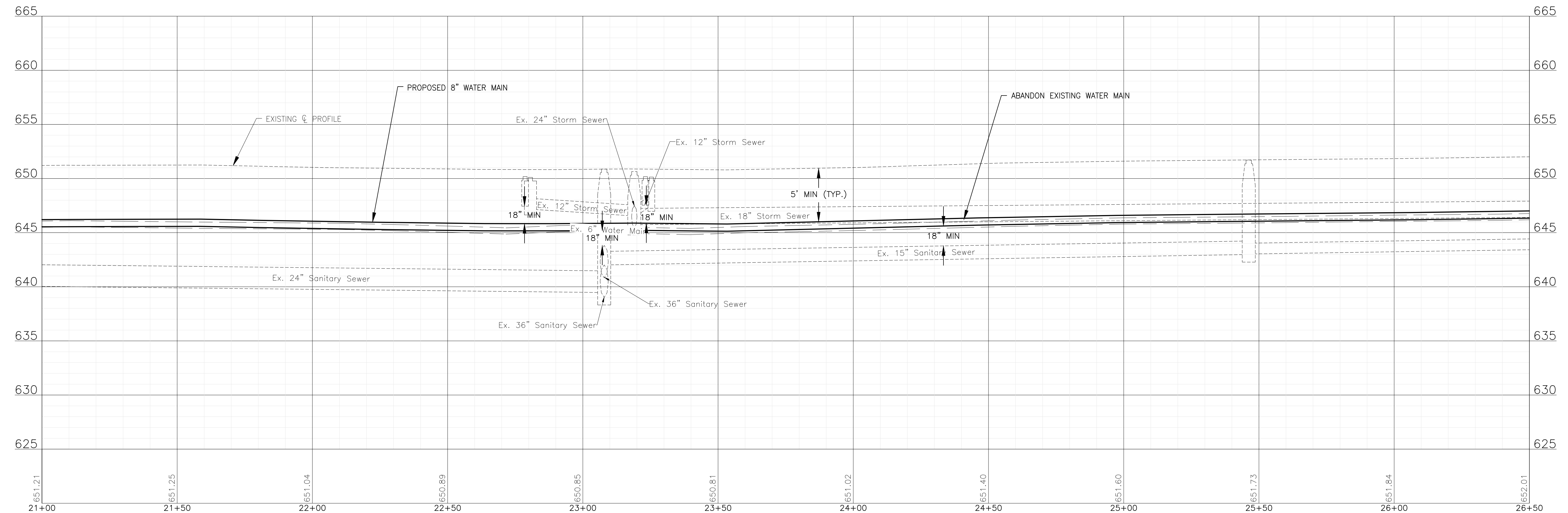
MAYFIELD AVENUE STA 15+50 TO STA 21+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	5
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



MAYFIELD AVENUE



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.

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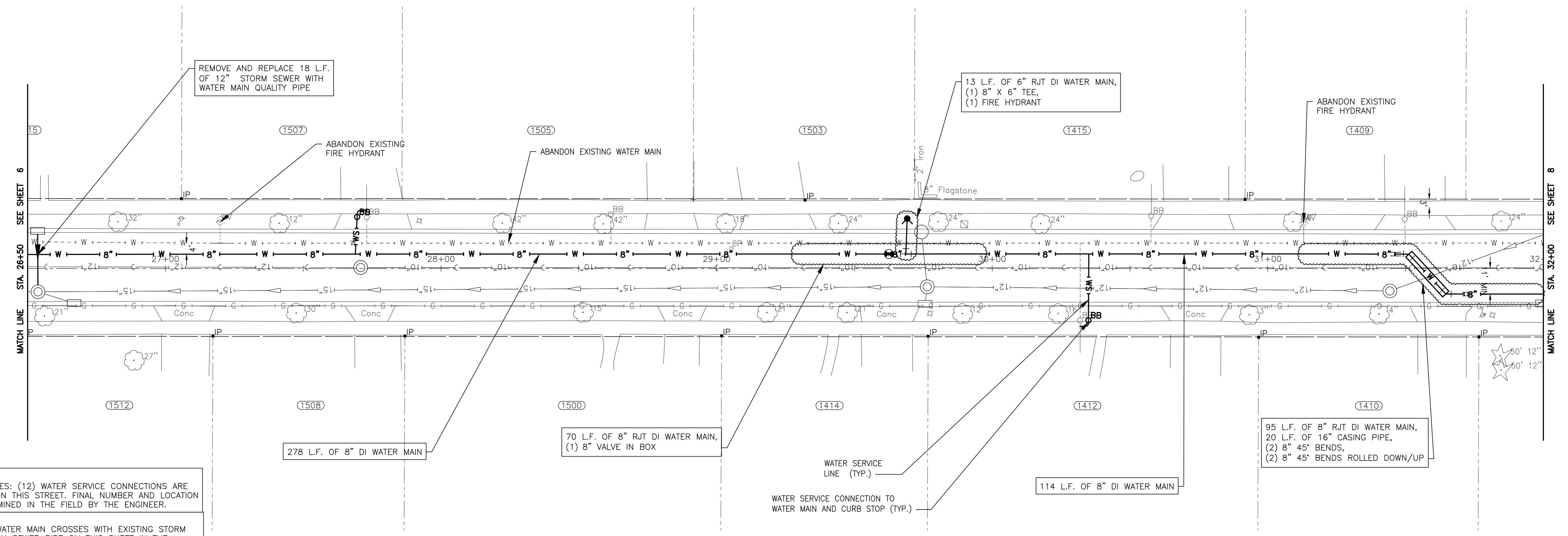
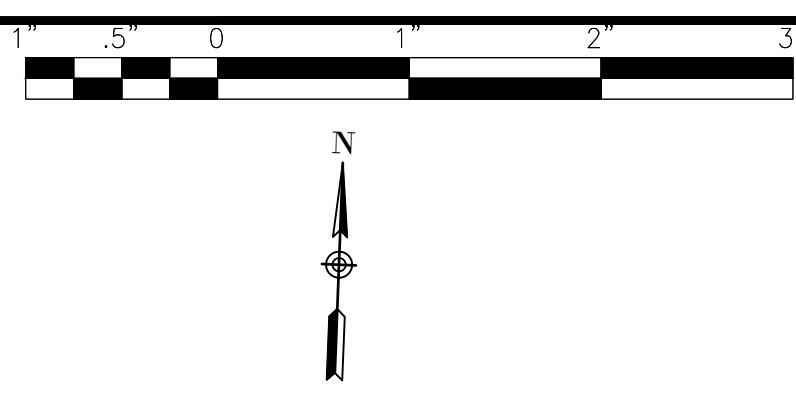
CONSULTANTS	REVISED -
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	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

MAYFIELD AVENUE STA 21+00 TO STA 26+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	6
CHECKED - LMS		
DATE - 11/18/21		

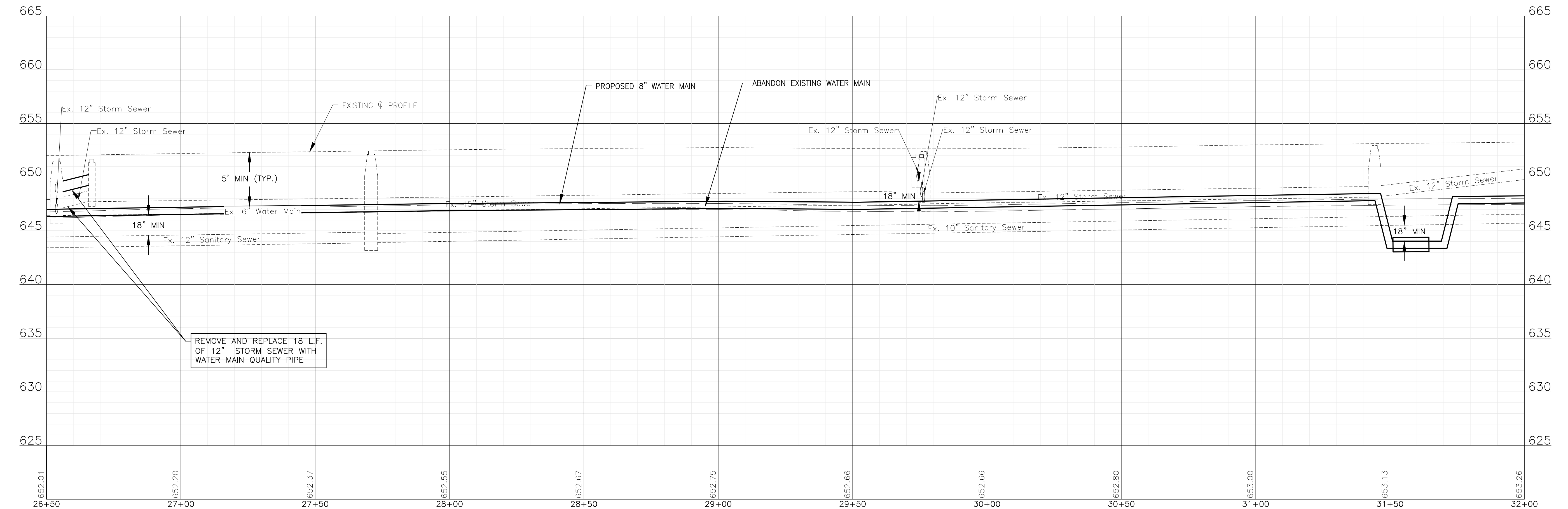
FINAL DESIGN FOR BIDDING



NOTE:
WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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.

MAYFIELD AVENUE



FINAL DESIGN FOR BIDDING

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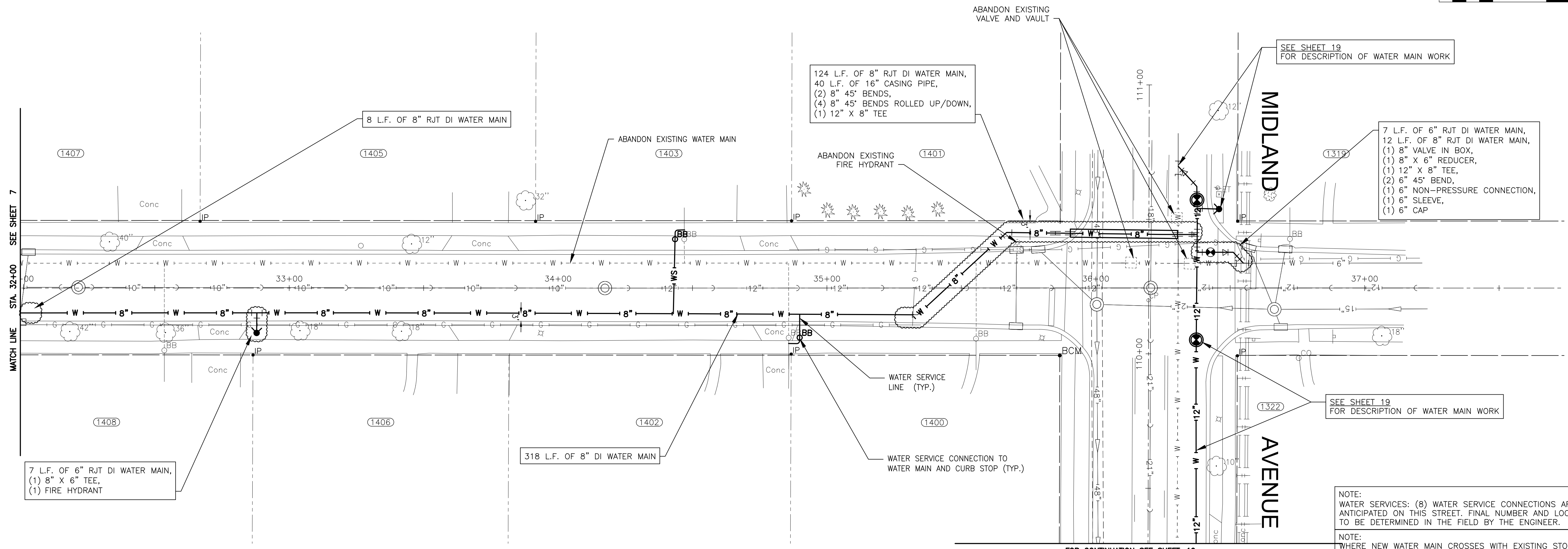


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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

MAYFIELD AVENUE STA 26+50 TO STA 32+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	7
CHECKED - LMS		
DATE - 11/18/21		



8 L.F. OF 8" RJT DI WATER MAIN

124 L.F. OF 8" RJT DI WATER MAIN,
40 L.F. OF 16" CASING PIPE,
(2) 8" 45° BENDS,
(4) 8" 45° BENDS ROLLED UP/DOWN,
(1) 12" X 8" TEE

7 L.F. OF 6" RJT DI WATER MAIN,
12 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" VALVE IN BOX,
(1) 8" X 6" REDUCER,
(1) 12" X 8" TEE,
(2) 6" 45° BEND,
(1) 6" NON-PRESSURE CONNECTION,
(1) 6" SLEEVE,
(1) 6" CAP

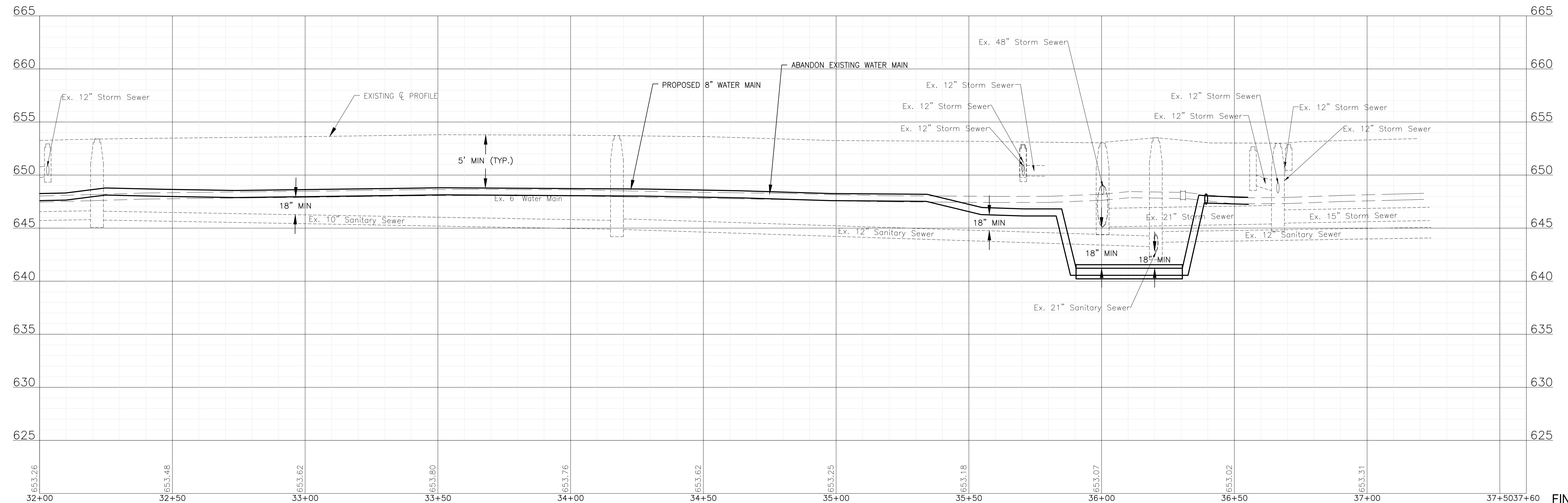
7 L.F. OF 6" RJT DI WATER MAIN,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

318 L.F. OF 8" DI WATER MAIN

SEE SHEET 19
FOR DESCRIPTION OF WATER MAIN WORK

NOTE:
WATER SERVICES: (8) 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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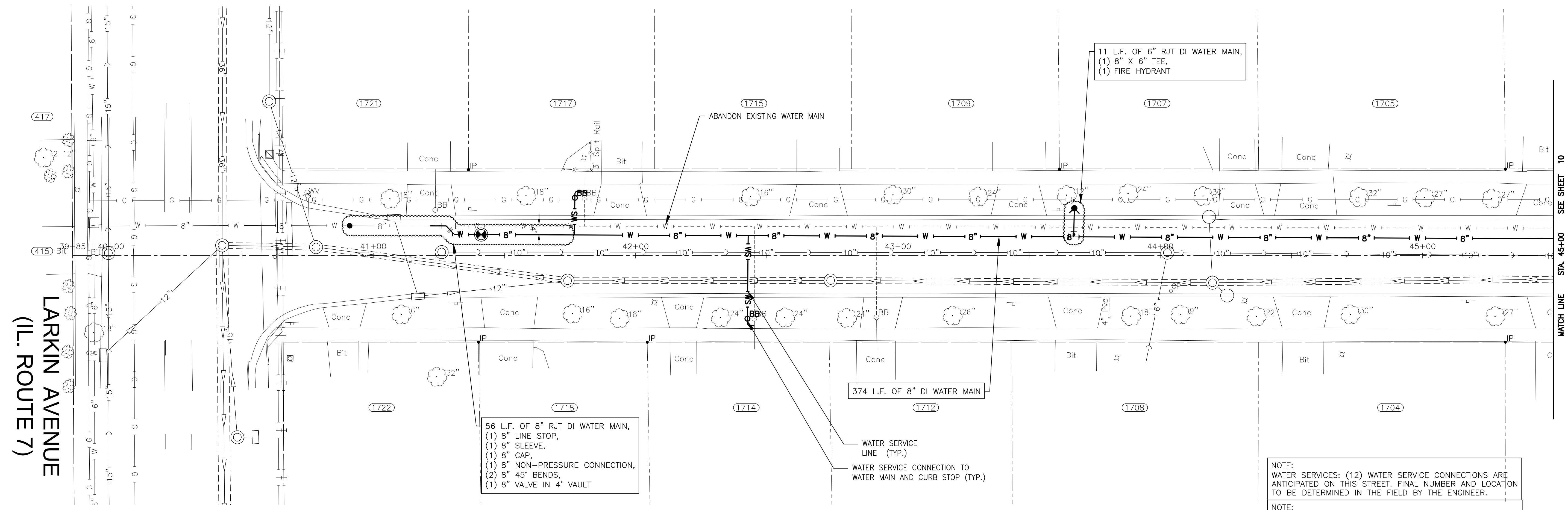
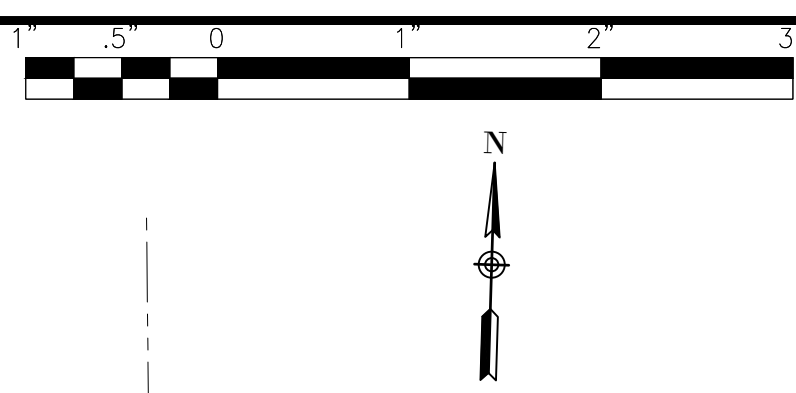
CONSULTANTS	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

MAYFIELD AVENUE STA 32+00 TO STA 37+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	8
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



LARKIN AVENUE
(IL. ROUTE 7)

TAYLOR STREET

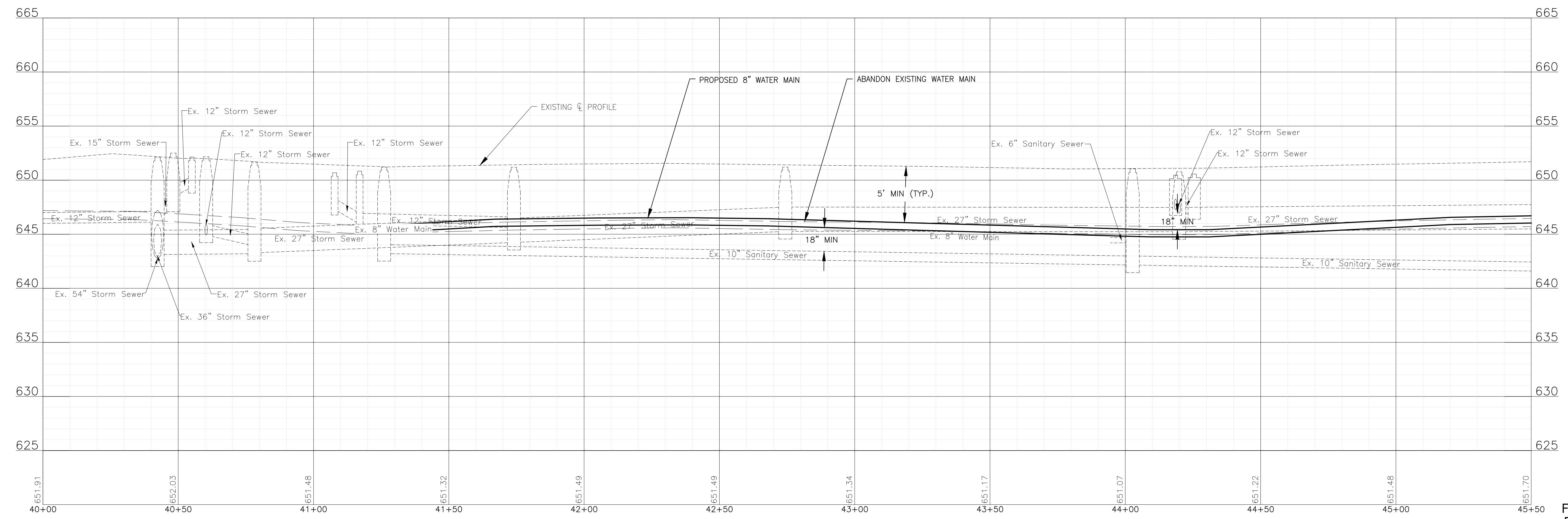
56 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" LINE STOP,
(1) 8" SLEEVE,
(1) 8" CAP,
(1) 8" NON-PRESSURE CONNECTION,
(2) 8" 45° BENDS,
(1) 8" VALVE IN 4' VAULT

374 L.F. OF 8" DI WATER MAIN

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

NOTE:
WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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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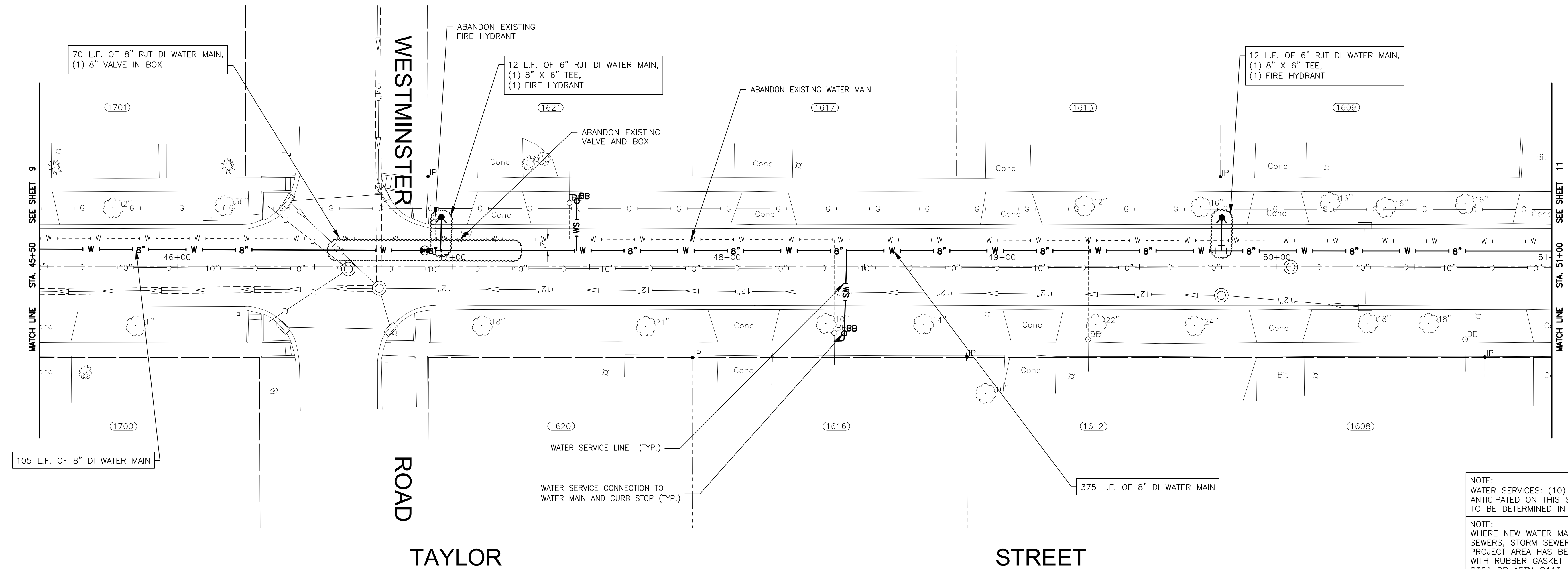
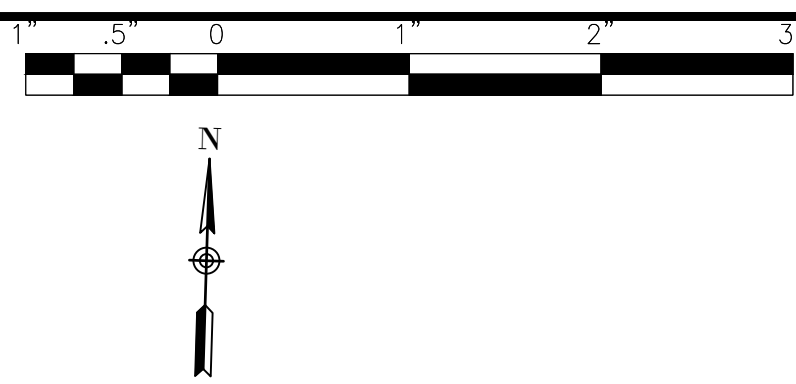
CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

TAYLOR STREET STA 40+00 TO STA 45+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

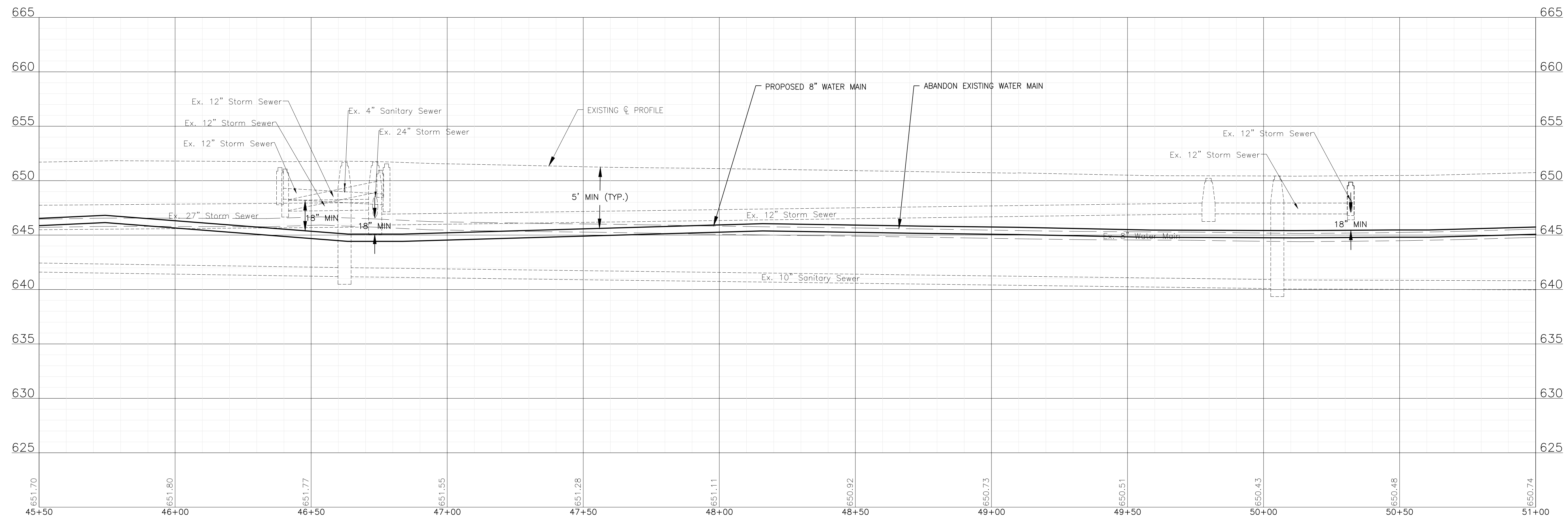
DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	9
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



NOTE:
WATER SERVICES: (10) 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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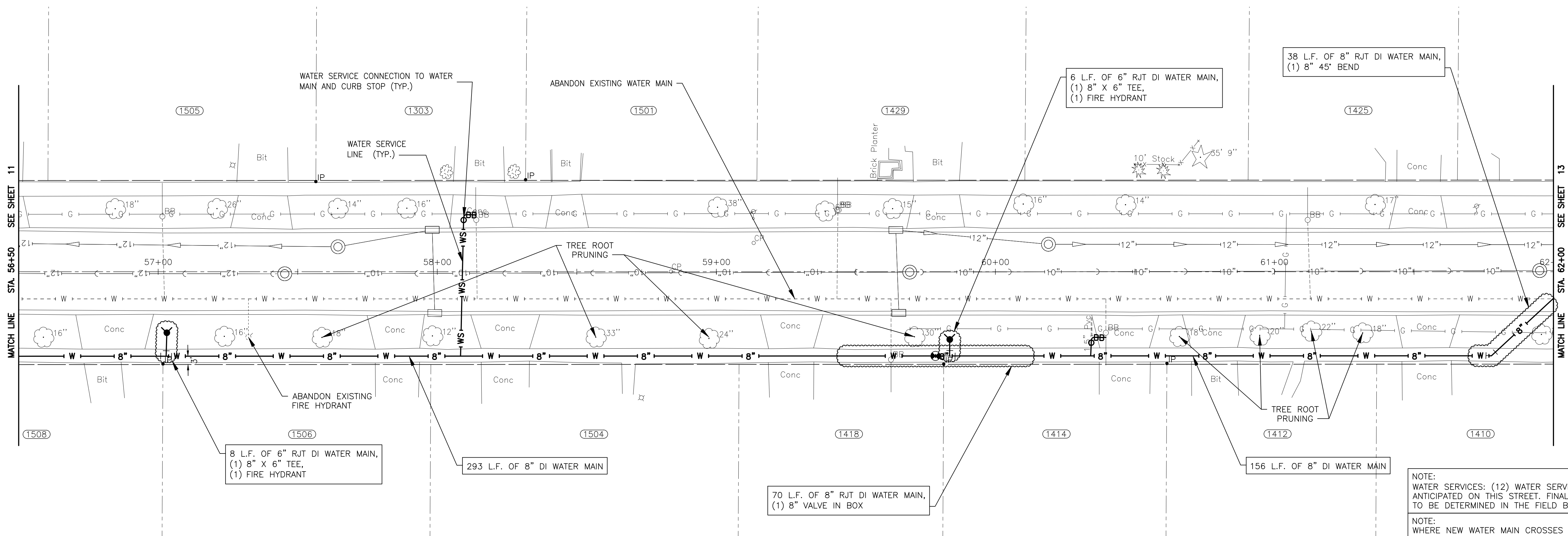
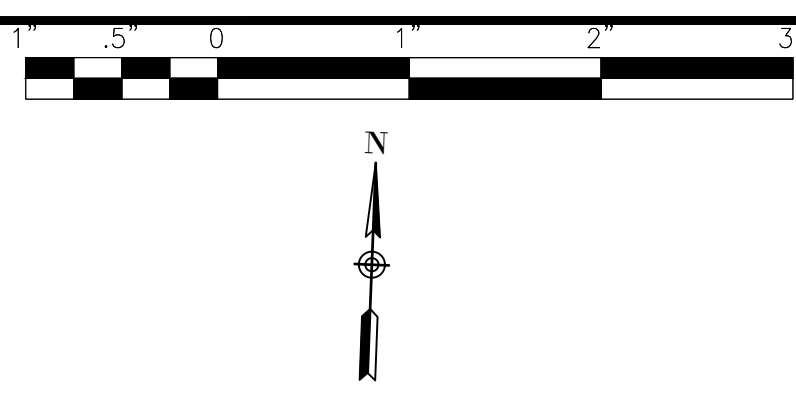
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

TAYLOR ST STA 45+50 TO STA 51+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JUR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	10
CHECKED - LMS		
DATE - 11/18/21		

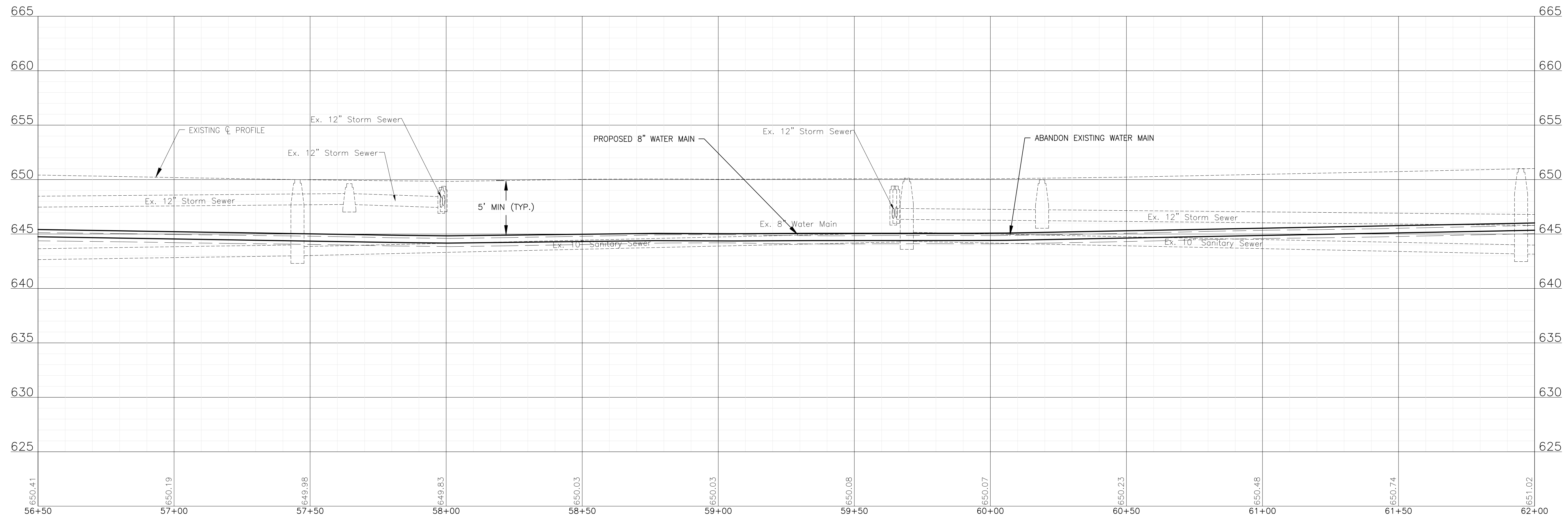
FINAL DESIGN FOR BIDDING



TAYLOR STREET

NOTE:
WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

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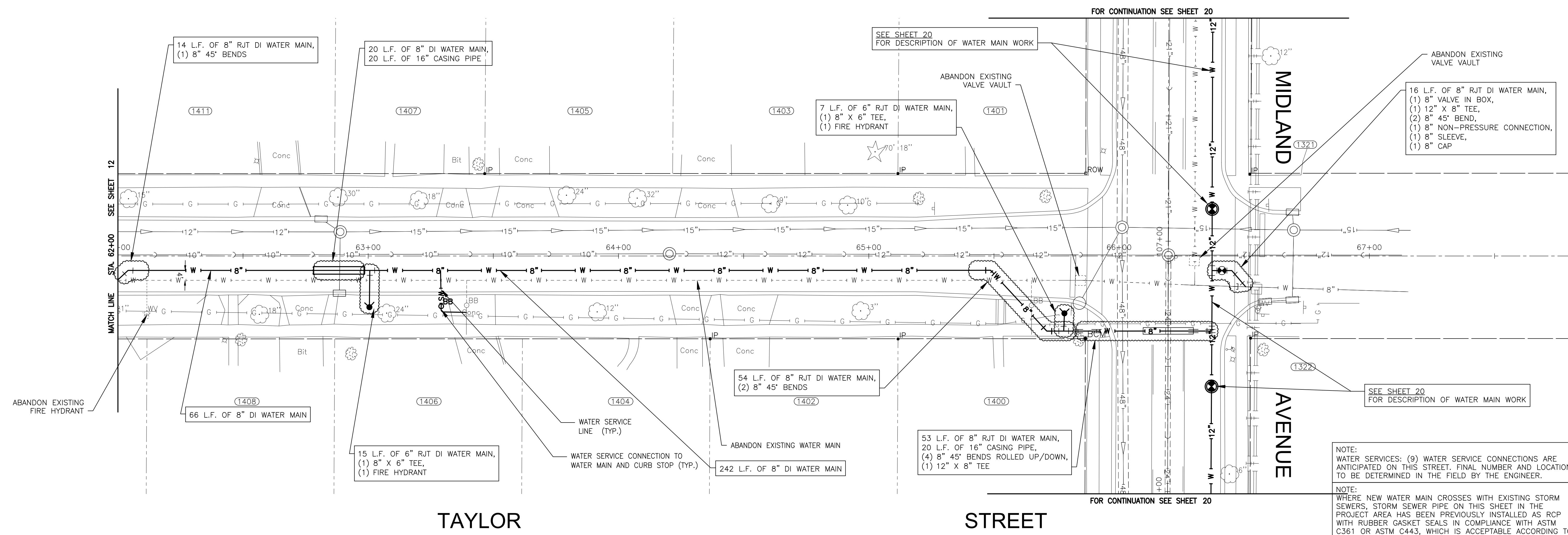
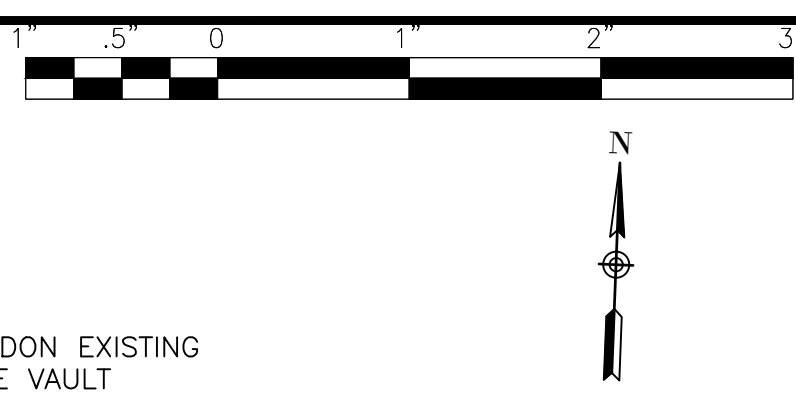


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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

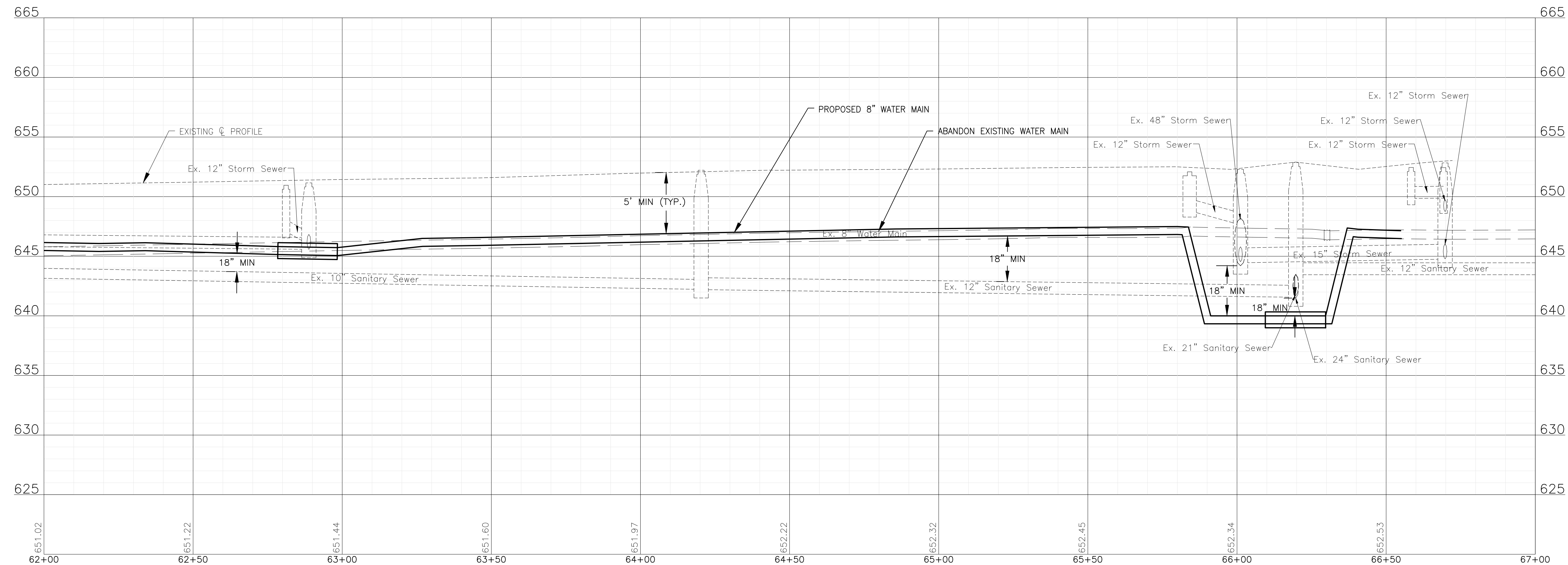
TAYLOR STREET STA 56+50 TO STA 62+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	12
CHECKED - LMS		
DATE - 11/18/21		



NOTE:
WATER SERVICES: (9) 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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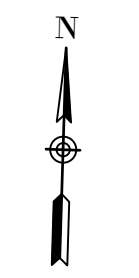
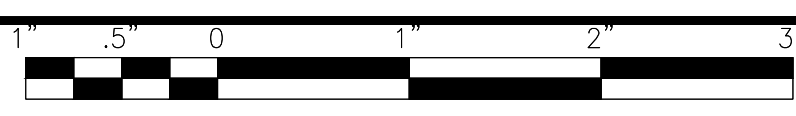
CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

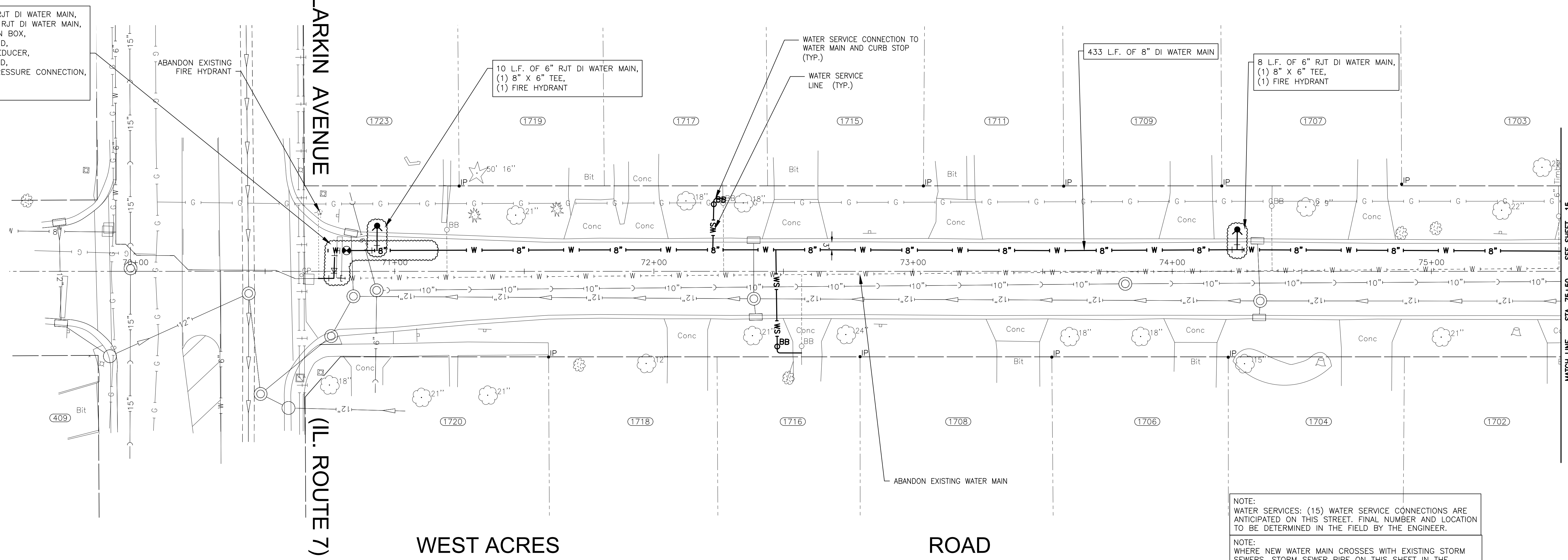
TAYLOR STREET STA 62+00 TO STA 67+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JUR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	13
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING

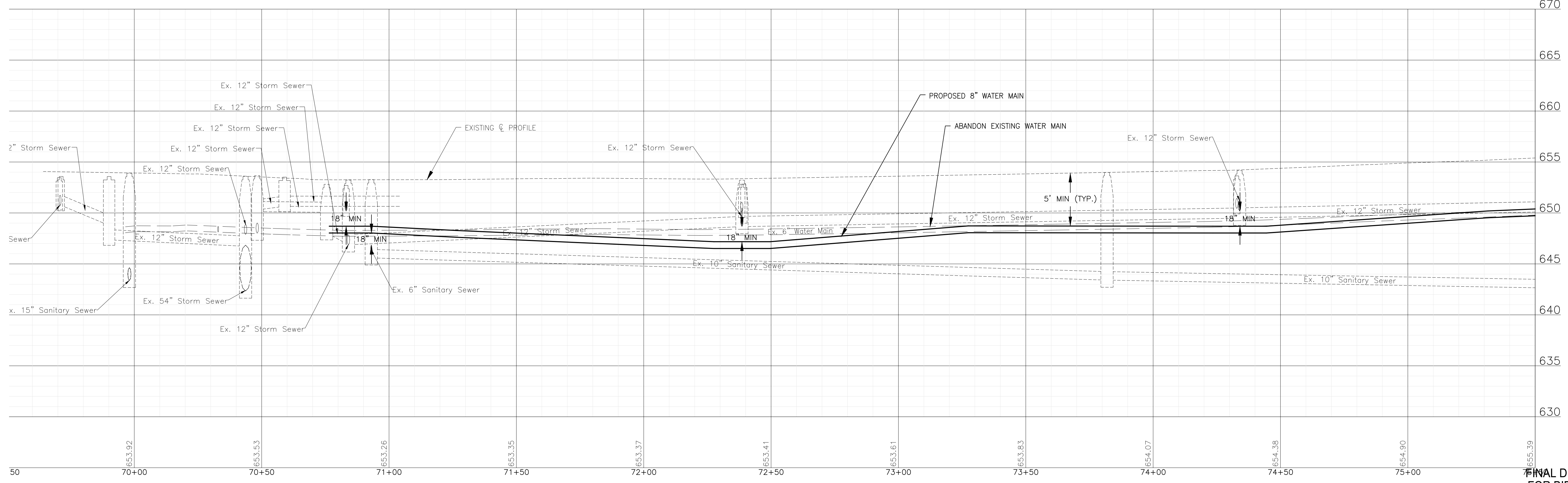


8 L.F. OF 6" RJT DI WATER MAIN,
 48 L.F. OF 8" RJT DI WATER MAIN,
 (1) 8" VALVE IN BOX,
 (1) 8" 90° BEND,
 (1) 8" X 6" REDUCER,
 (1) 6" 90° BEND,
 (1) 6" NON-PRESSURE CONNECTION,
 (1) 6" SLEEVE,
 (1) 6" CAP



NOTE:
 WATER SERVICES: (15) 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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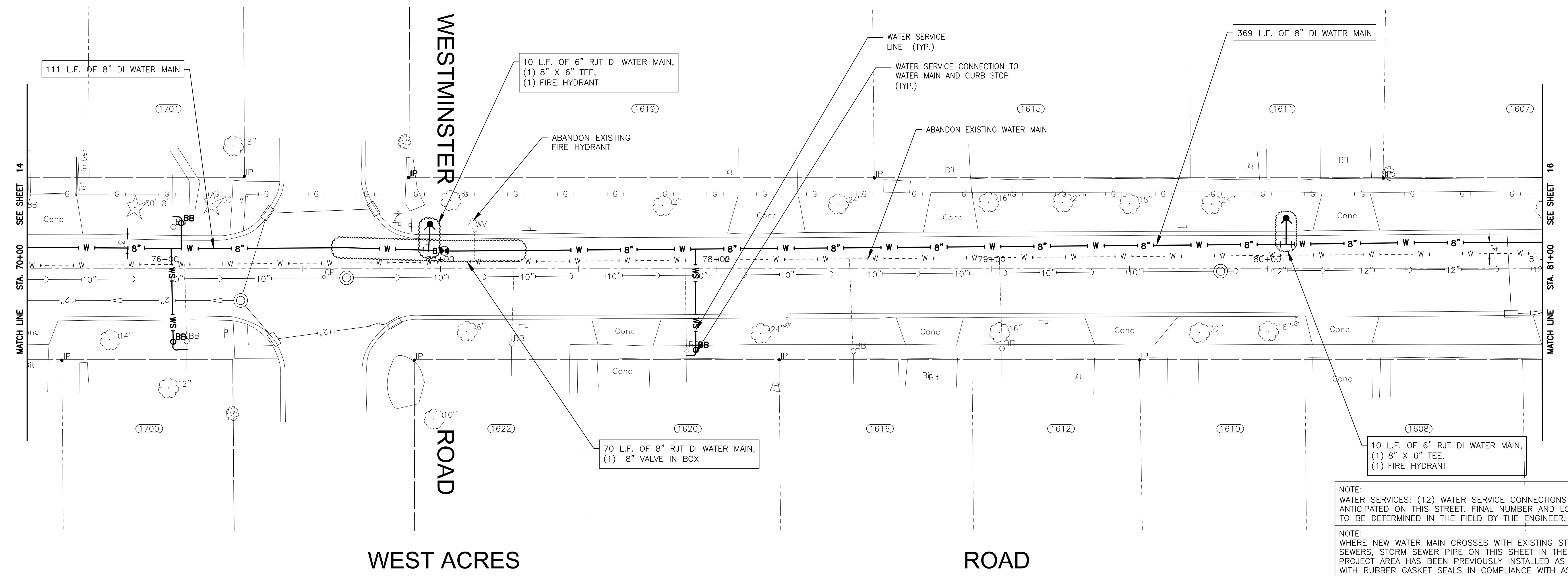
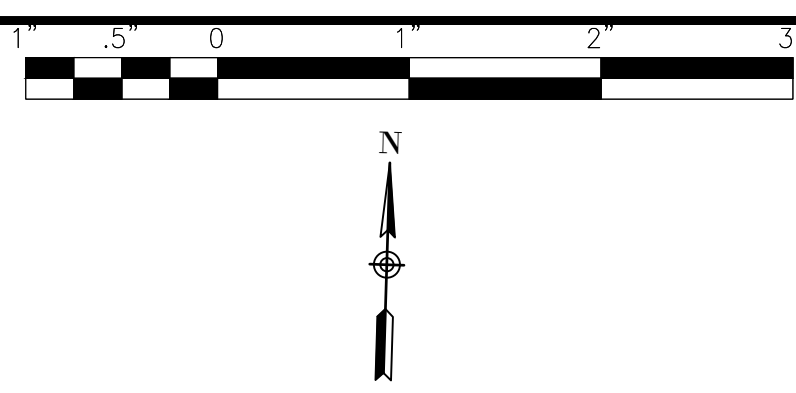
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

WEST ACRES ROAD STA 70+00 TO STA 75+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

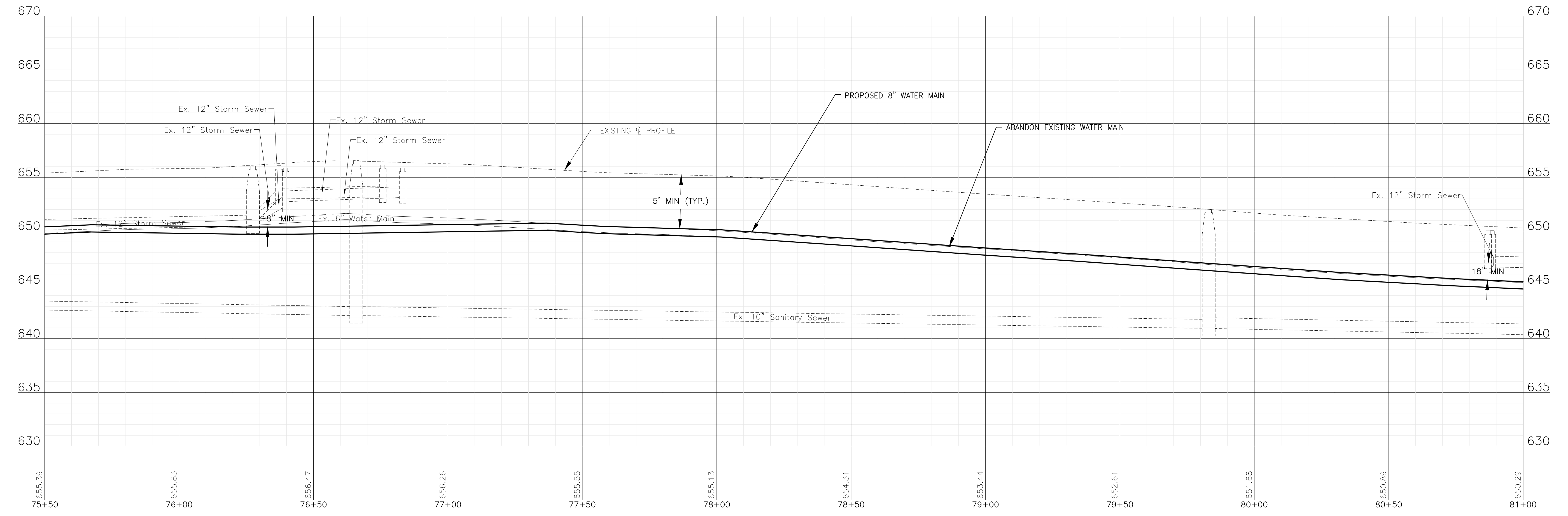
DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	14
CHECKED - LMS		
DATE - 11/18/21		

FINAL DESIGN FOR BIDDING



NOTE:
 WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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\JOLIC\210039-2022 WATER MAIN\CAD\WEST ACRES\DWGS\CURRENT\210039 DESIGN-SHEETS WEST ACRES.DWG 75+50.00
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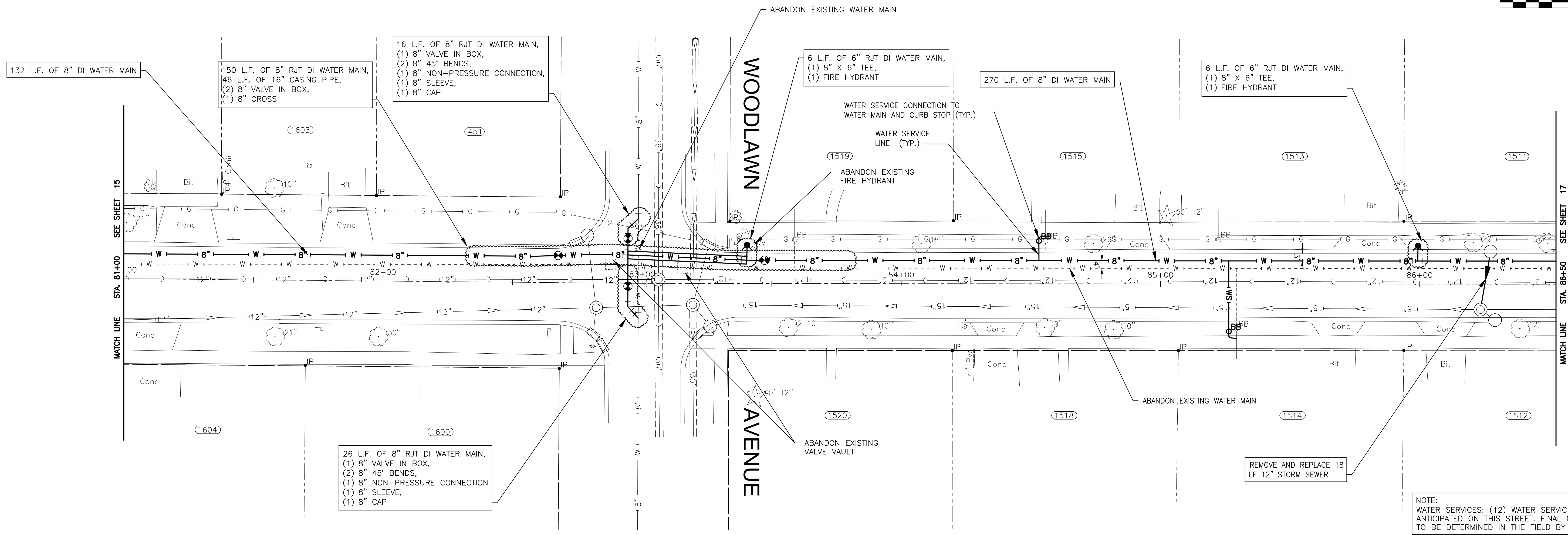
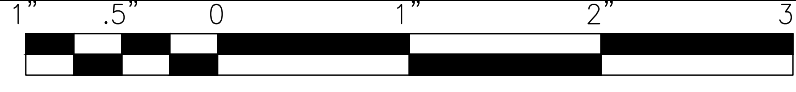
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

WEST ACRES ROAD STA 75+50 TO STA 81+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	15
CHECKED - LMS		
DATE - 11/18/21		

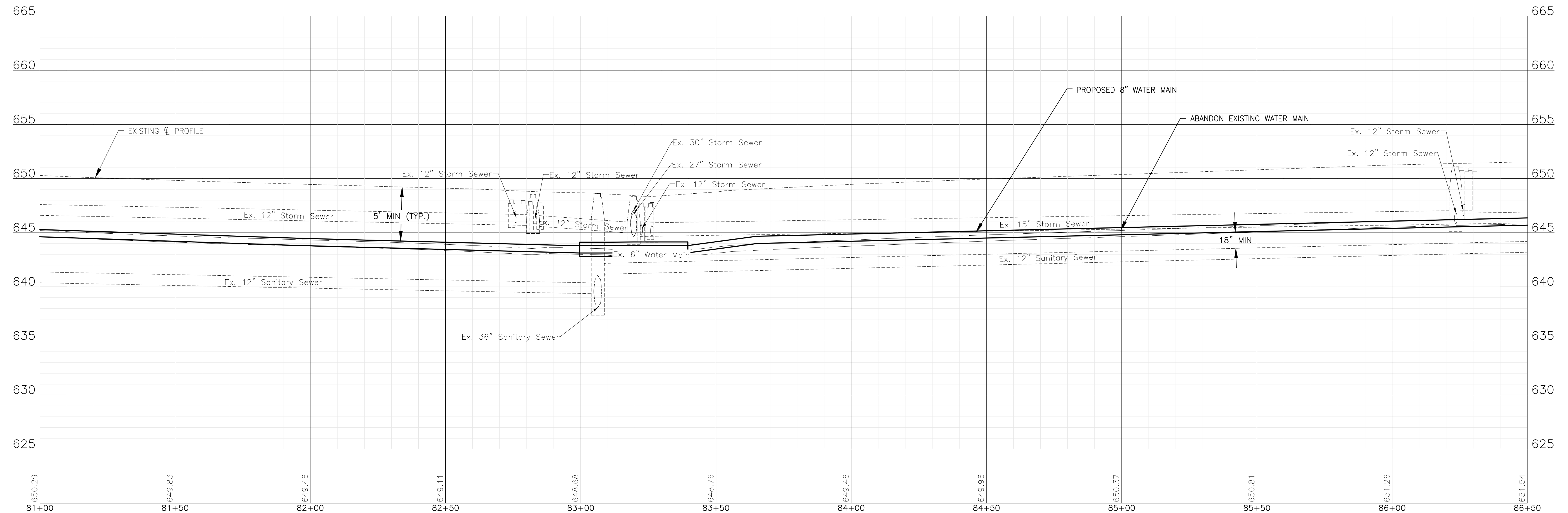
FINAL DESIGN FOR BIDDING



WEST ACRES ROAD

NOTE:
 WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

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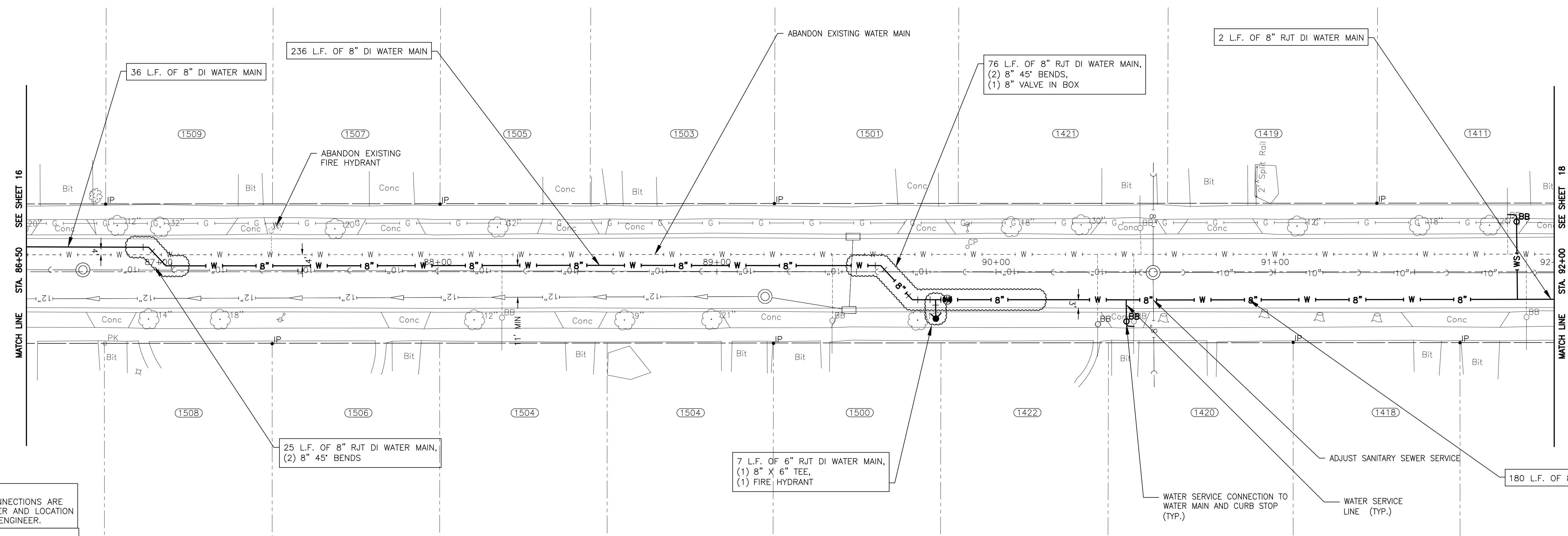
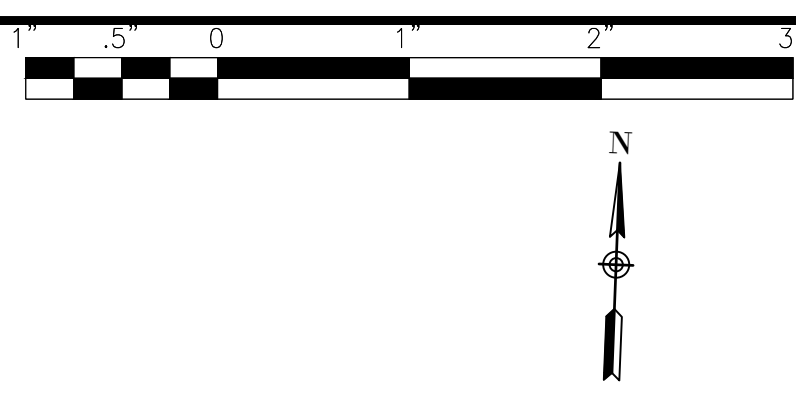


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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

WEST ACRES ROAD STA 81+00 TO STA 86+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

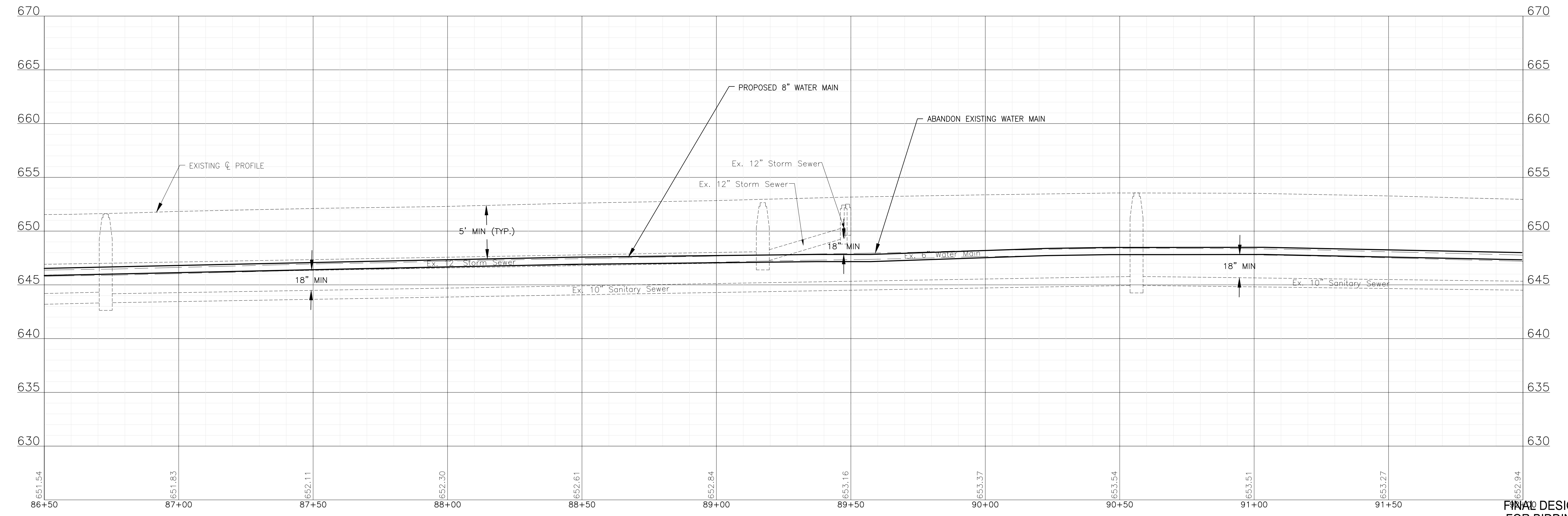
DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	16
CHECKED - LMS		
DATE - 11/18/21		



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.

WEST ACRES ROAD



FINAL DESIGN FOR BIDDING

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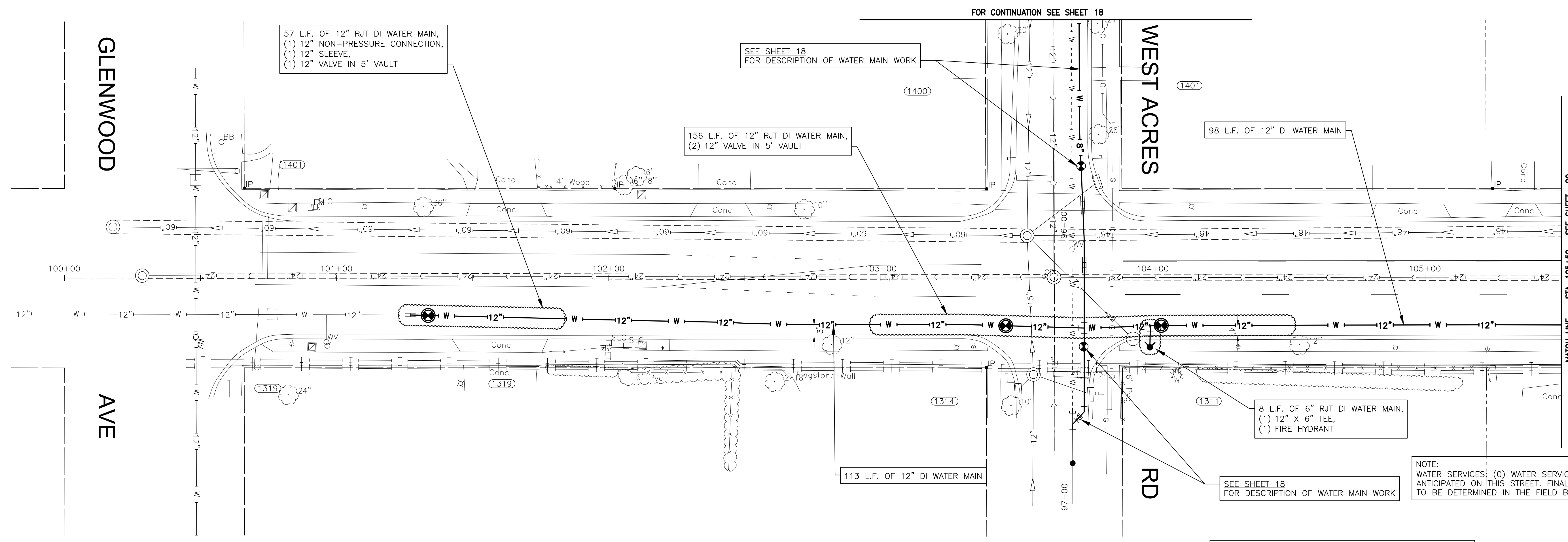
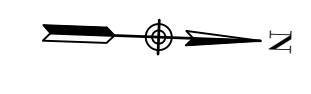
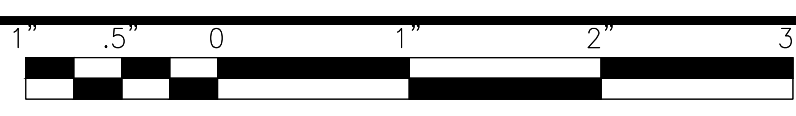


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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

WEST ACRES ROAD STA 86+50 TO STA 92+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	17
CHECKED - LMS		
DATE - 11/18/21		

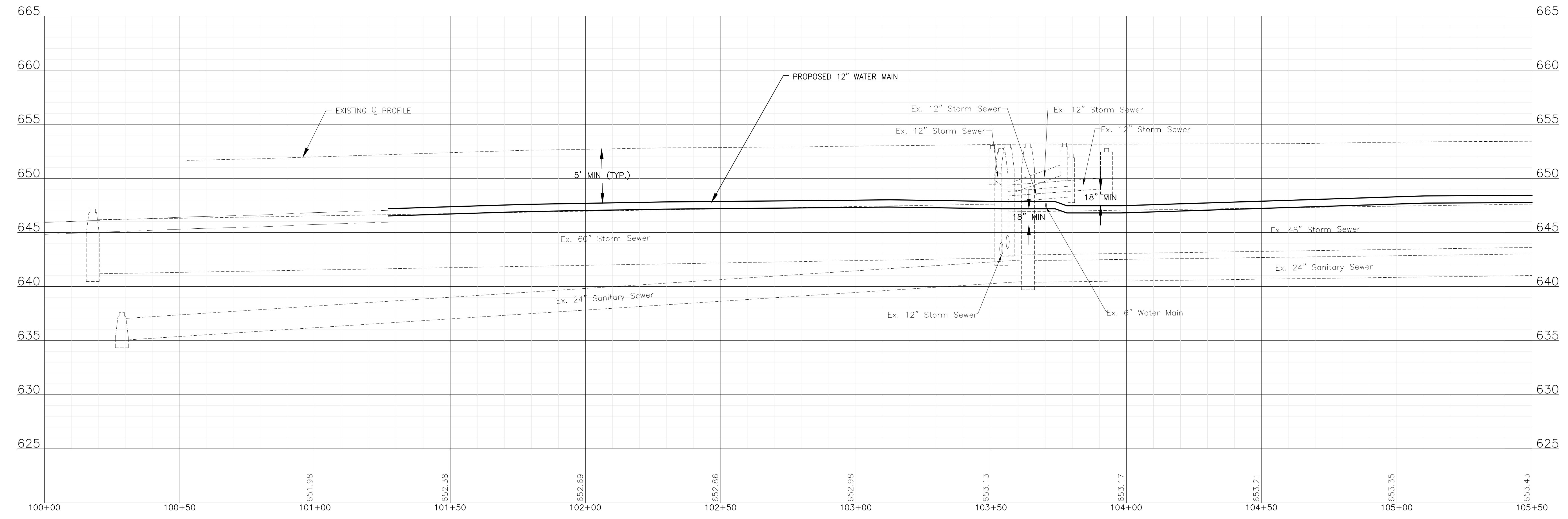


MIDLAND

AVENUE

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.

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



FINAL DESIGN FOR BIDDING

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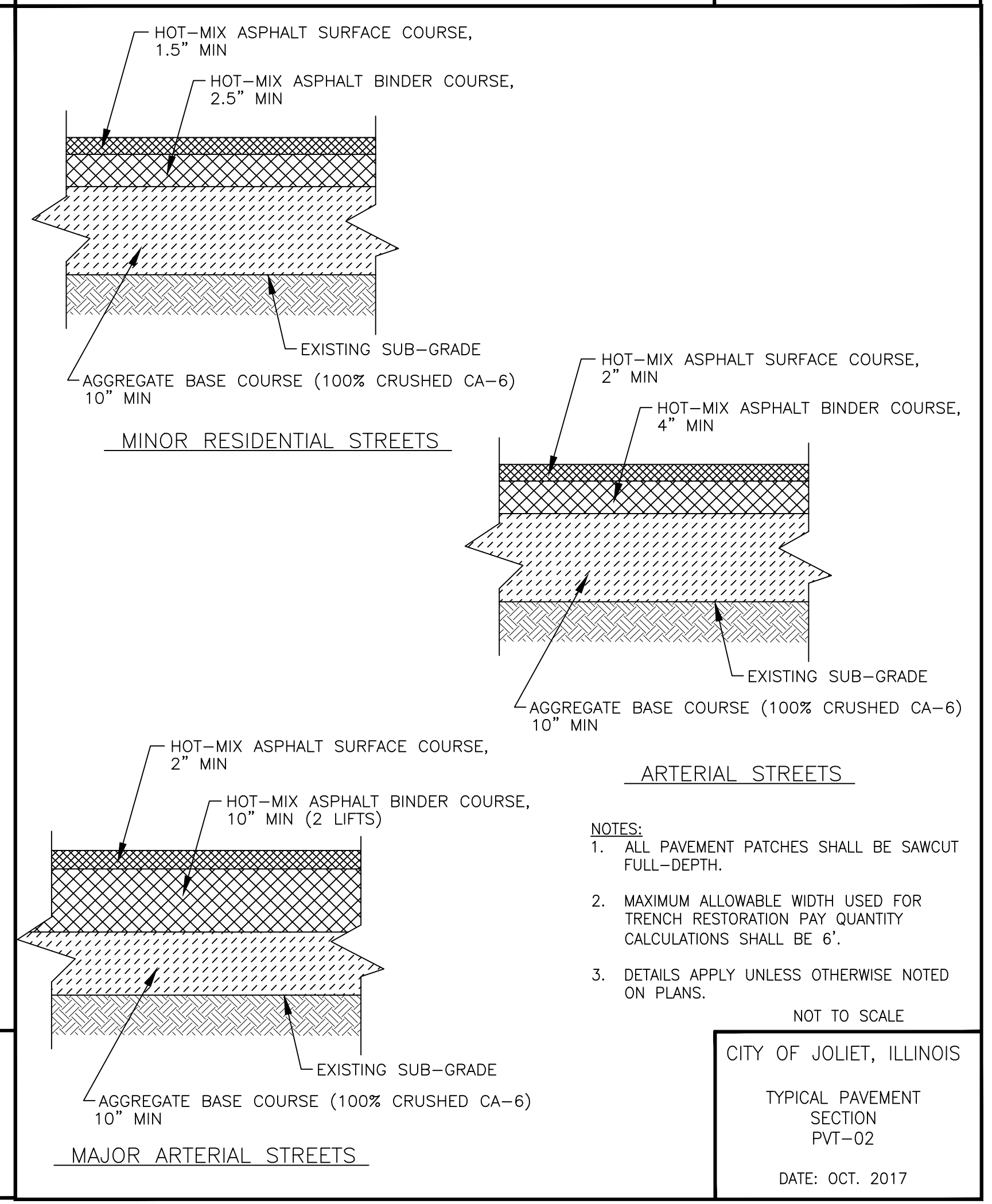
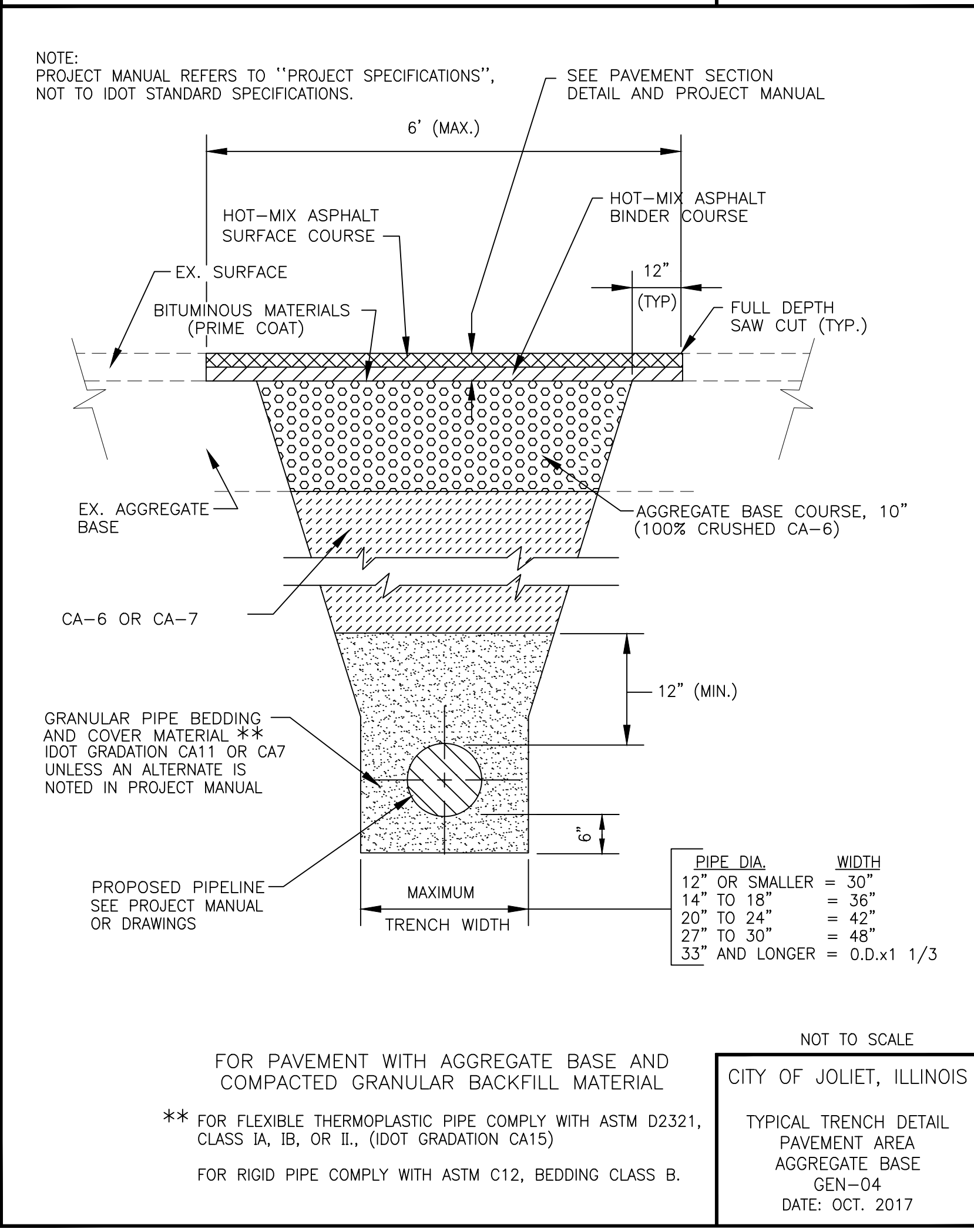
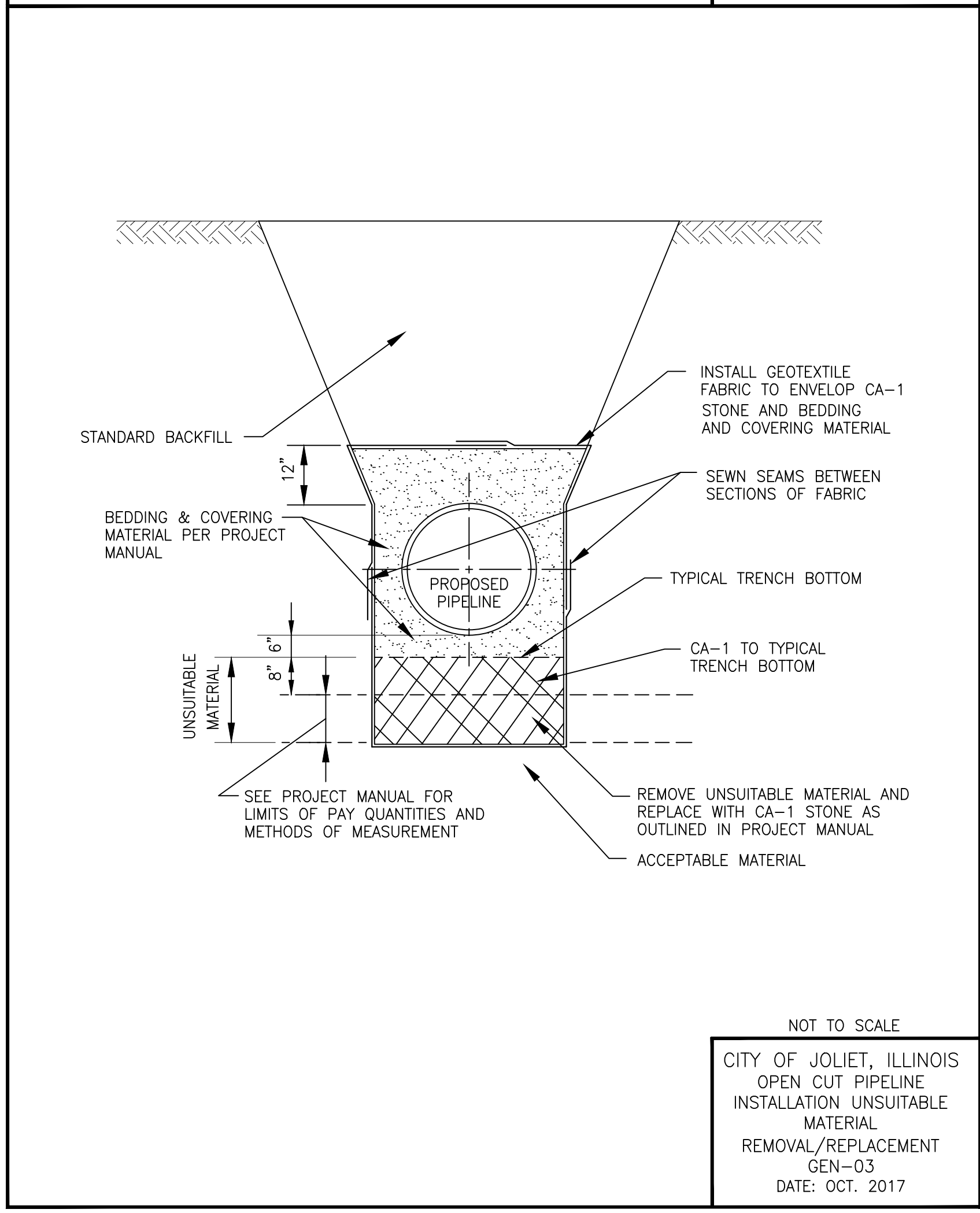
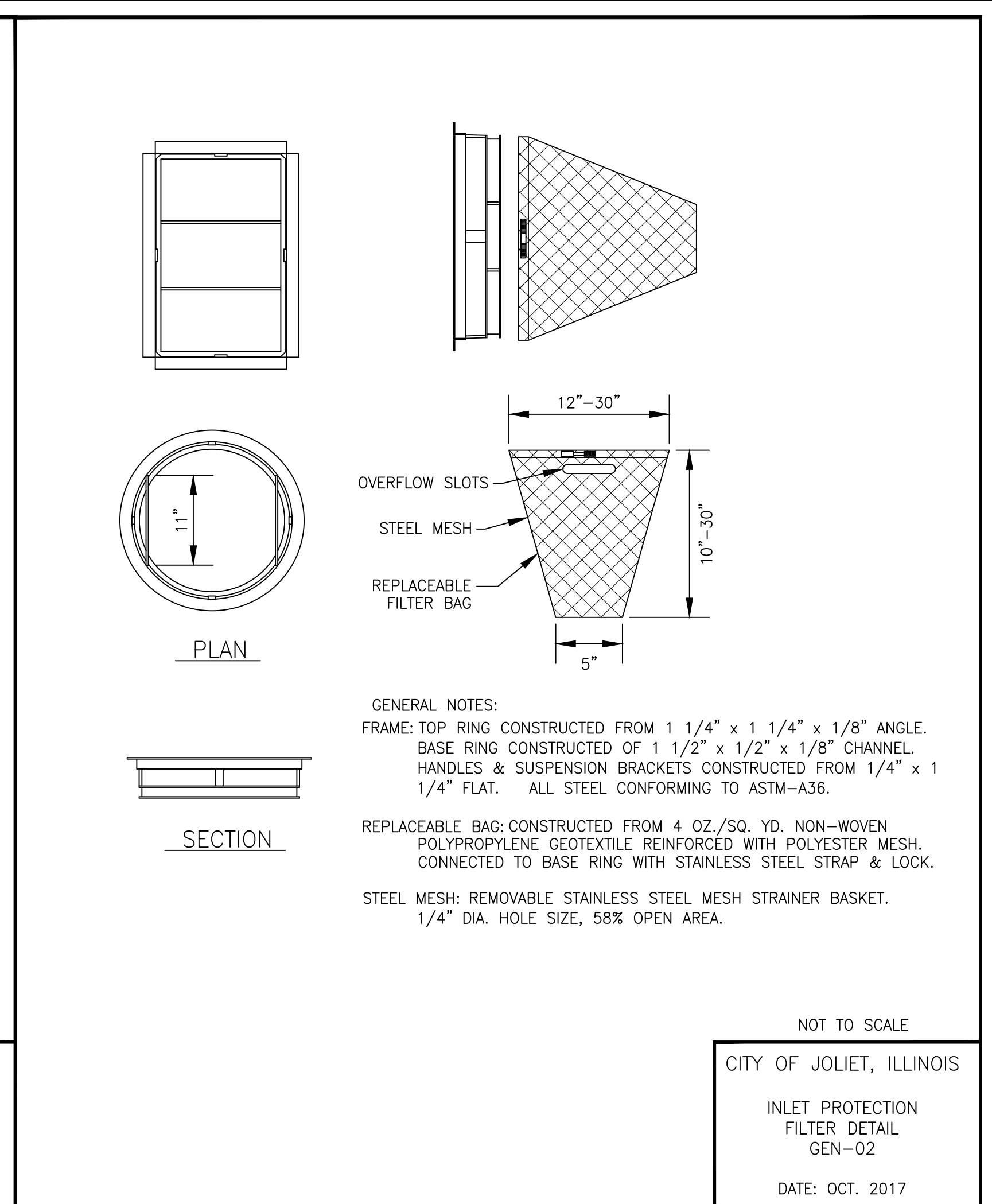
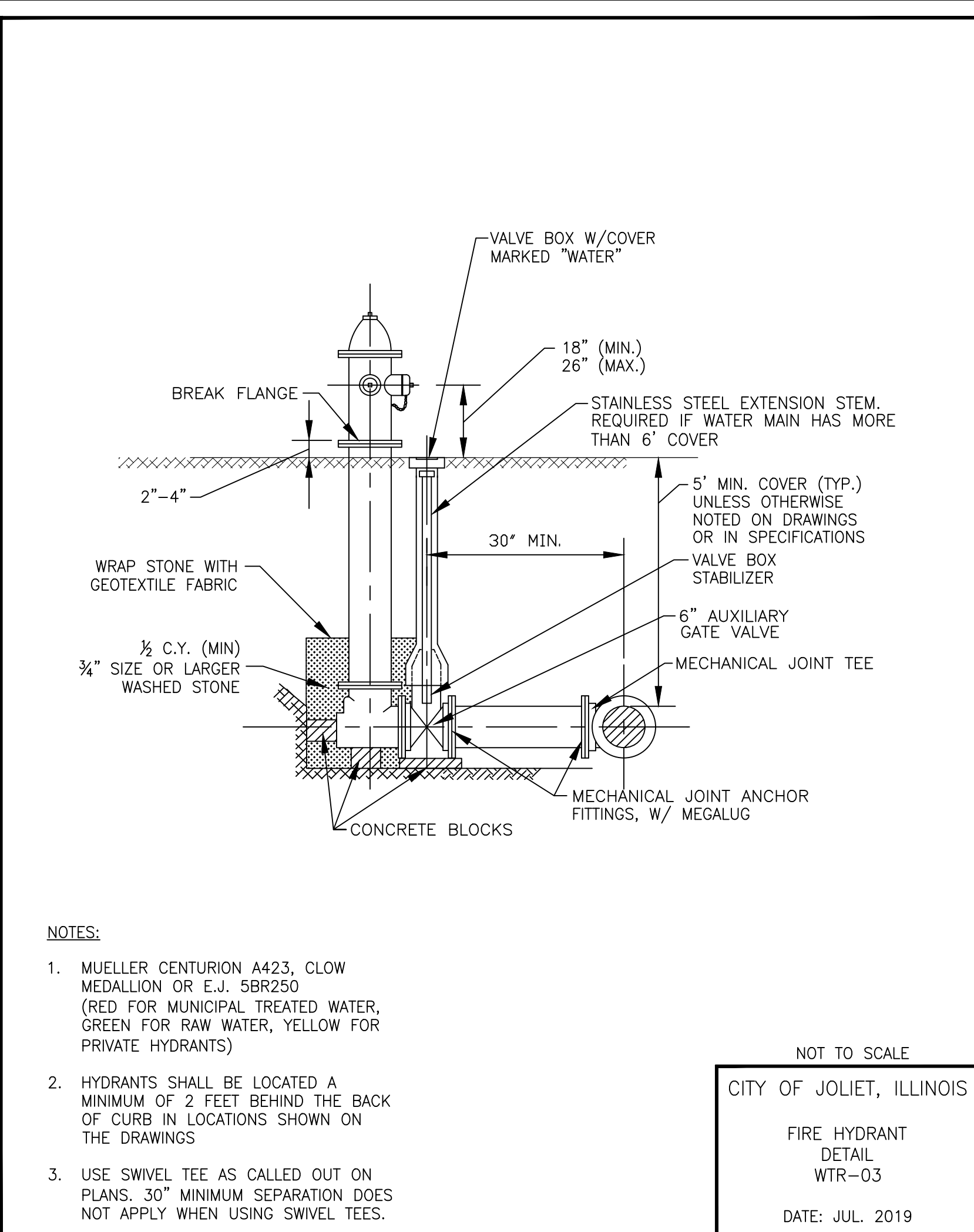
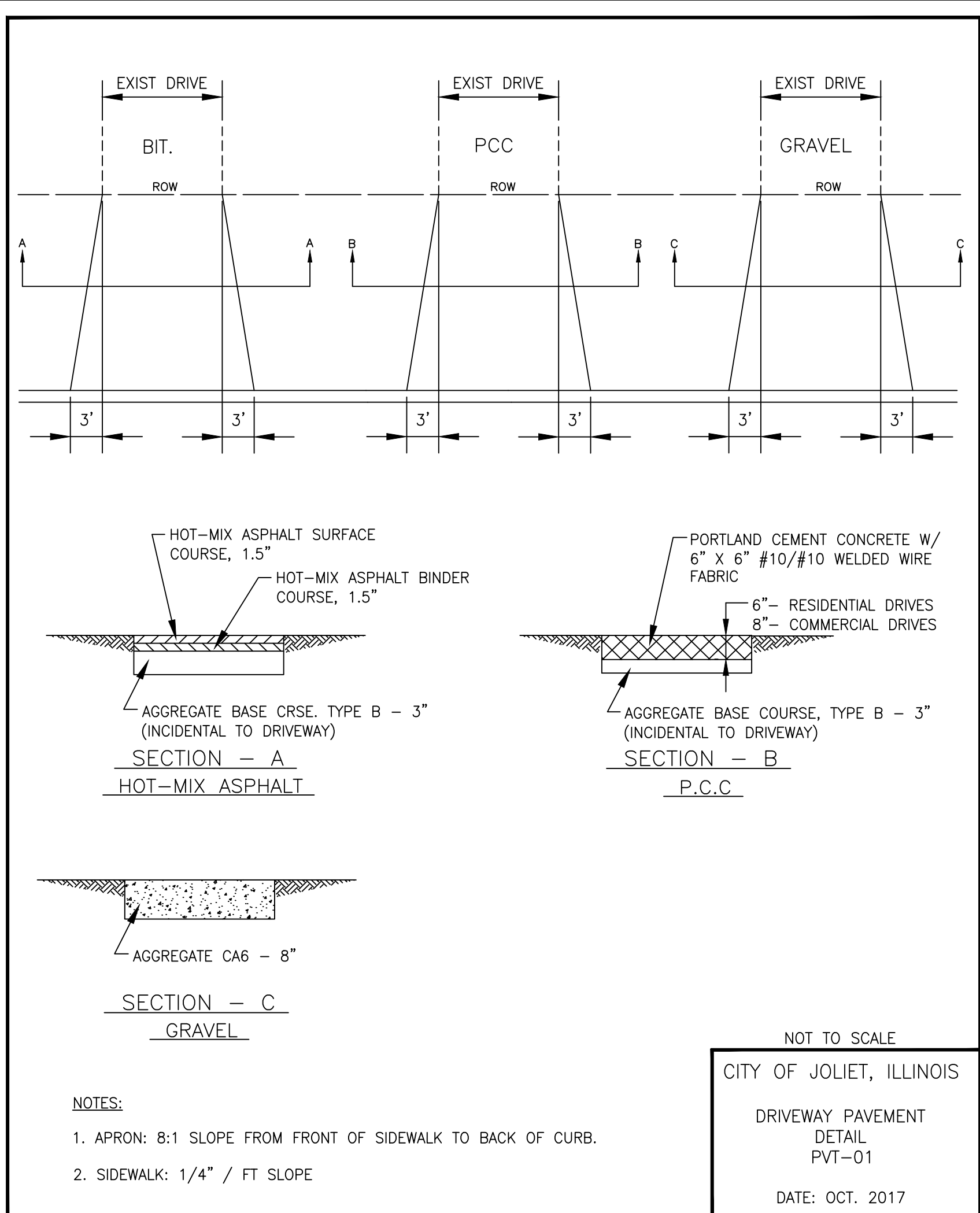


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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

MIDLAND AVENUE STA 100+00 TO STA 105+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 210039.40

DESIGNED - JJR	TOTAL SHEETS	SHEET NO.
DRAWN - ABN-TJB	23	19
CHECKED - LMS		
DATE - 11/18/21		



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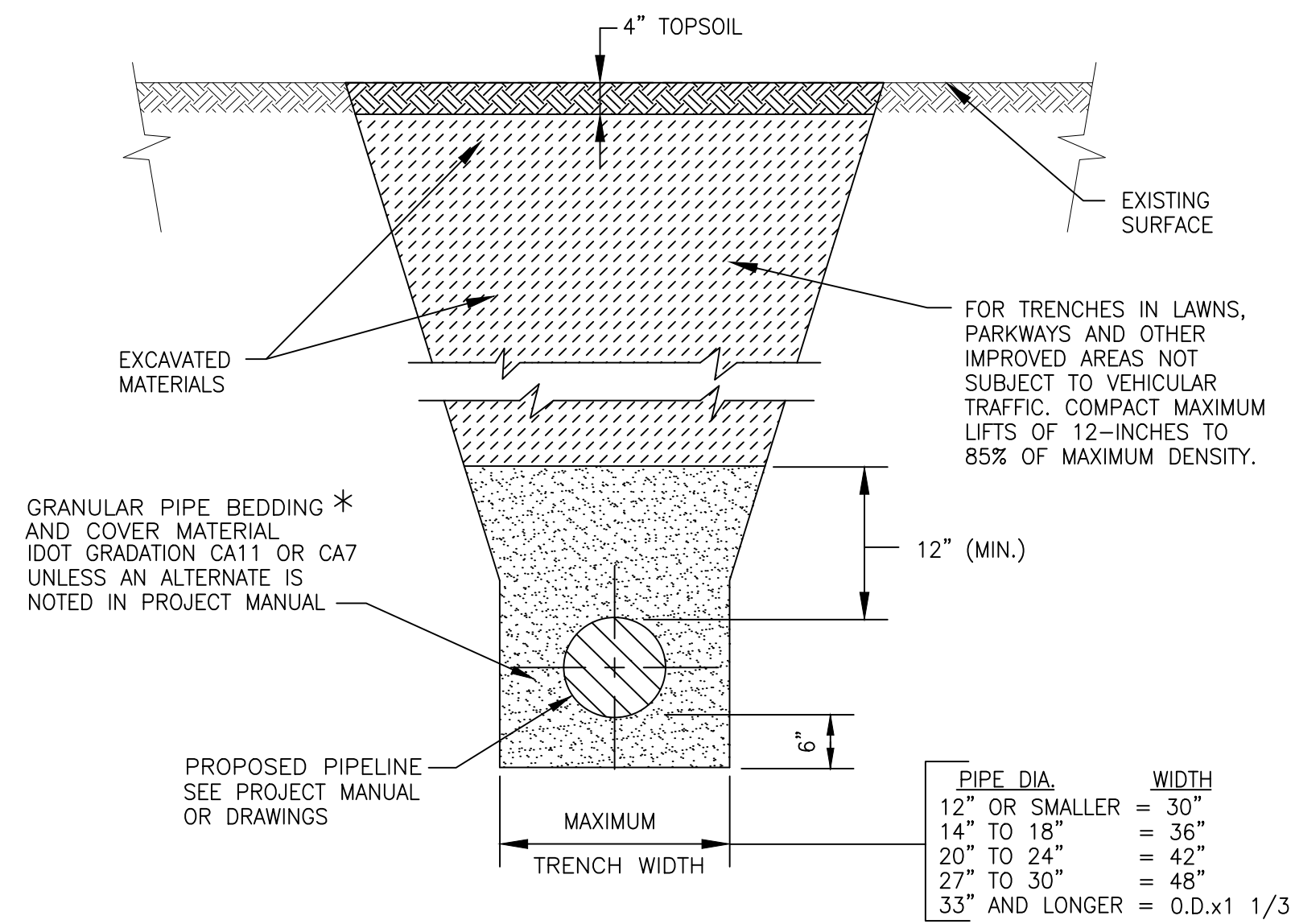
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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

DESIGNER		TOTAL SHEETS		SHEET NO.	
DESIGNED -	JJR	23		21	
DRAWN -	ABN-TJB				
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

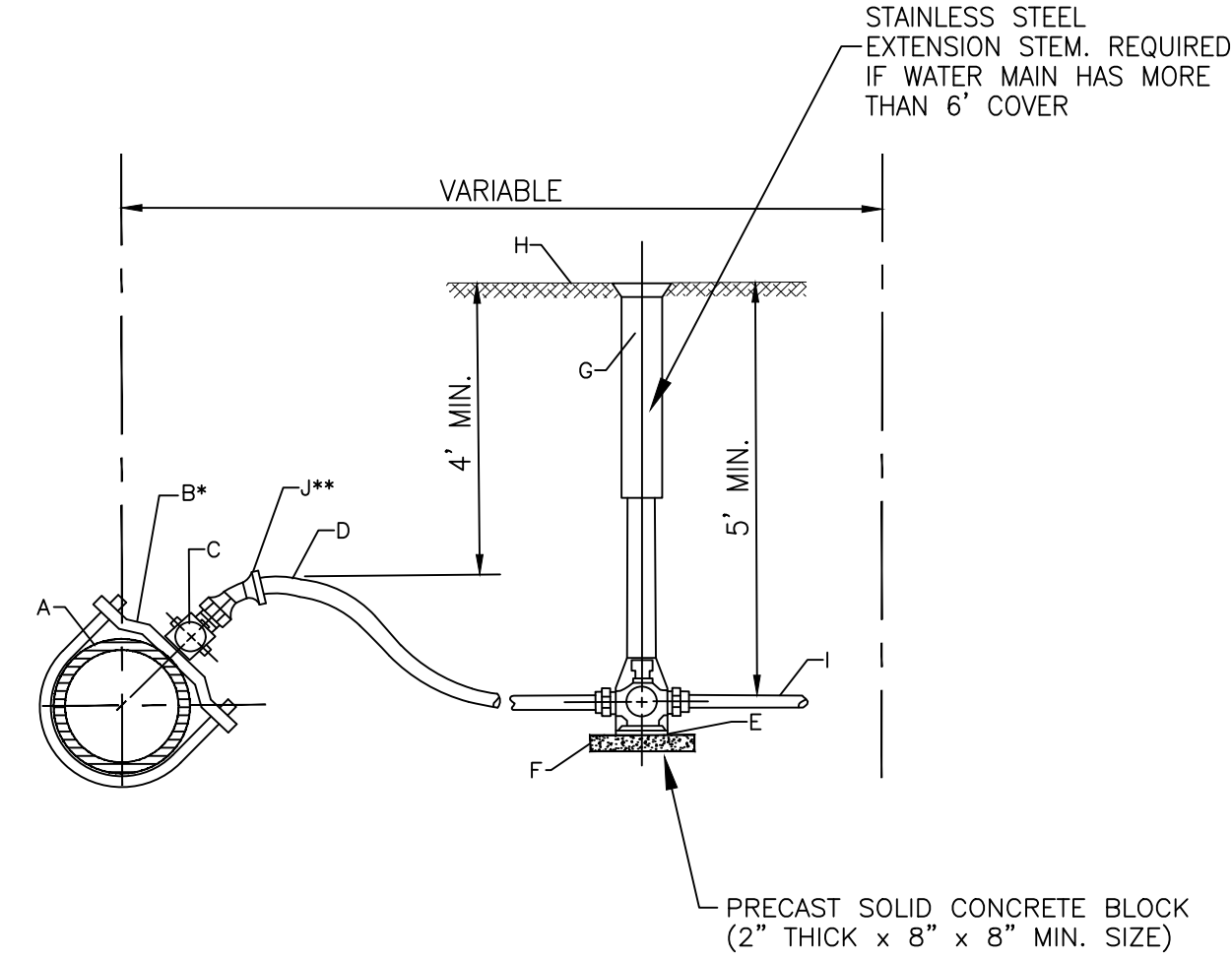
NOT TO SCALE

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

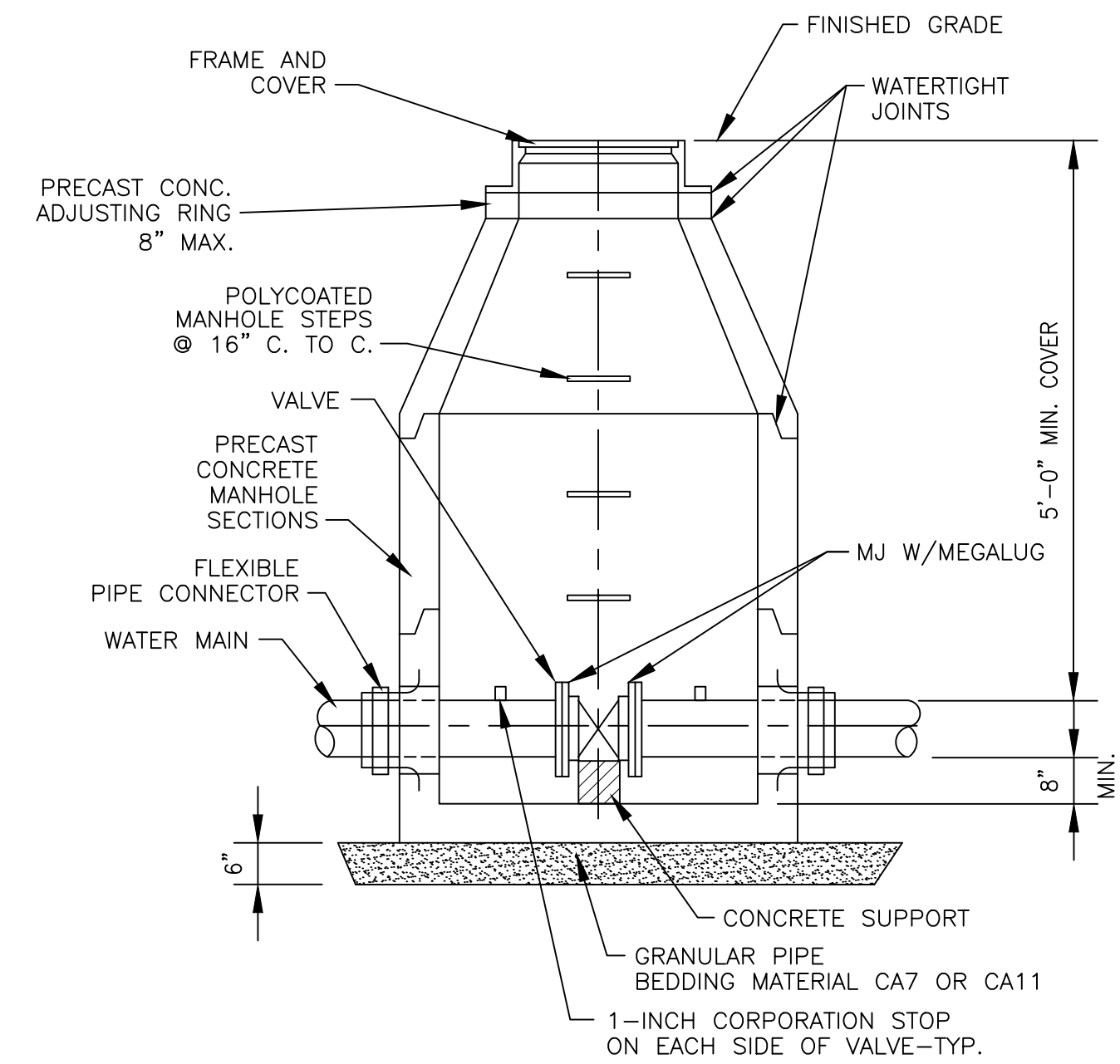
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE
CONNECTION DETAIL
WTR-06

DATE: OCT. 2020



NOTES:

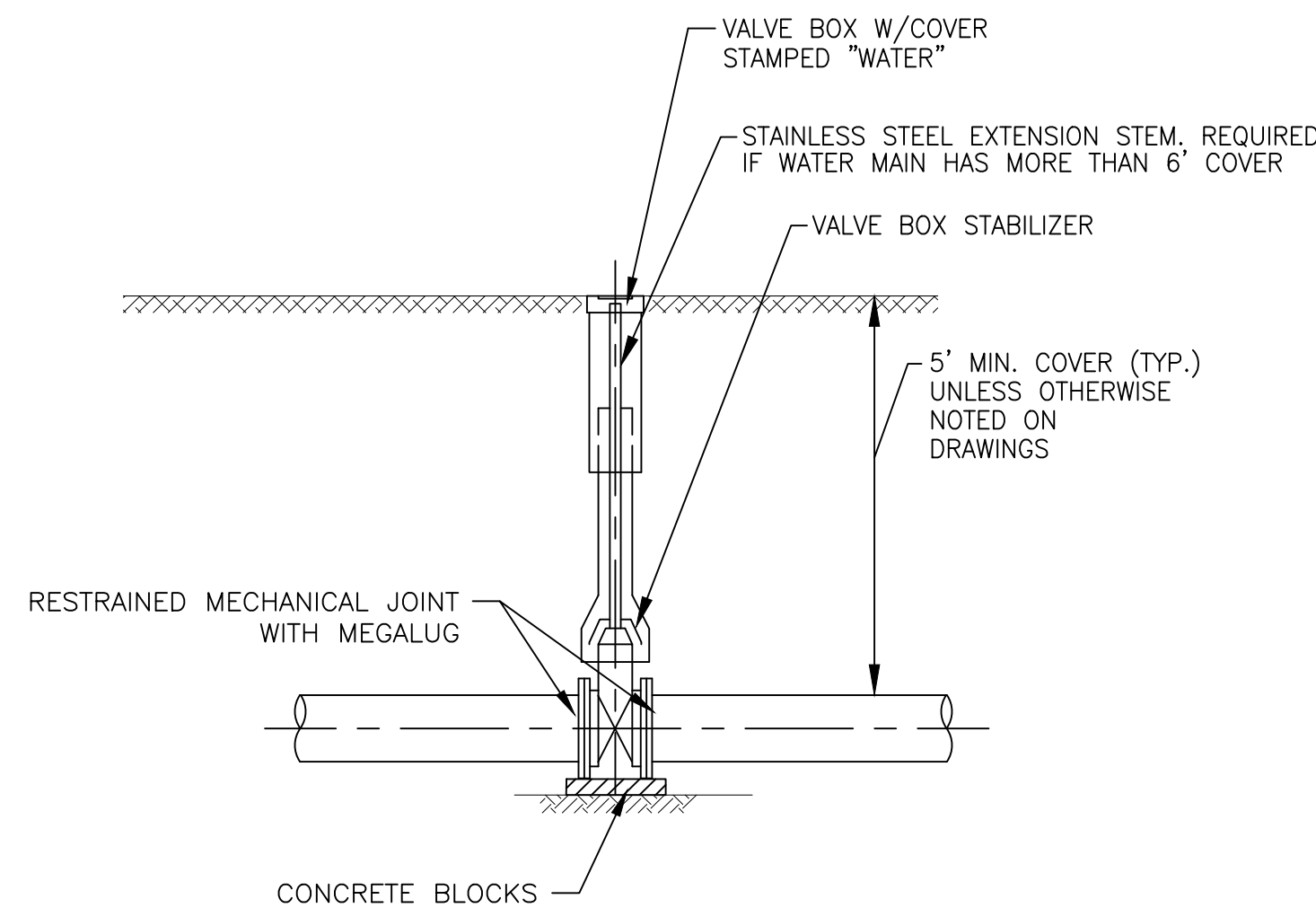
1. CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
 2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
 3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER".
 EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT
DETAIL
WTR-01

DATE: OCT. 2017

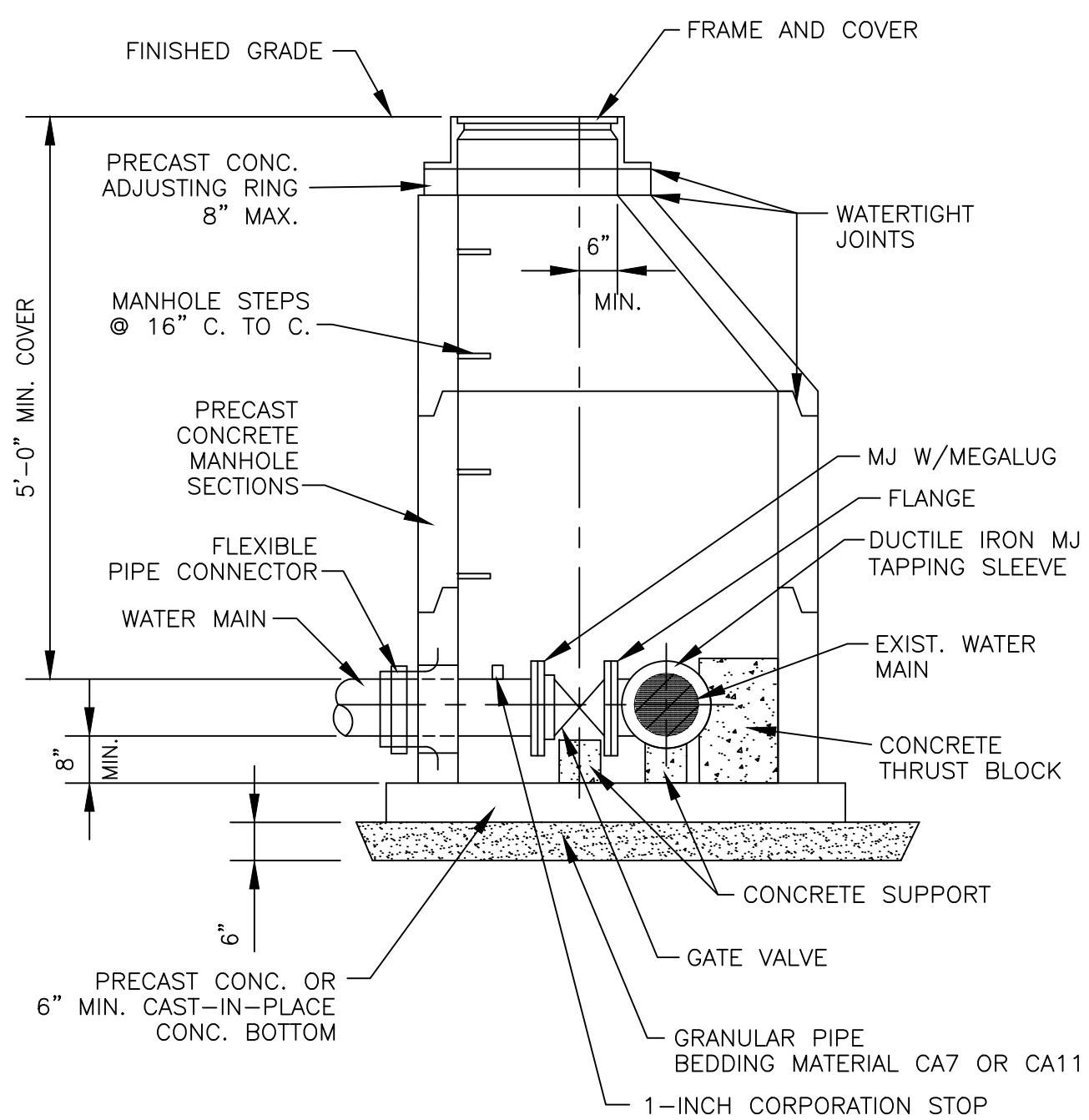


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX
DETAIL
WTR-02

DATE: OCT. 2017



NOTES:

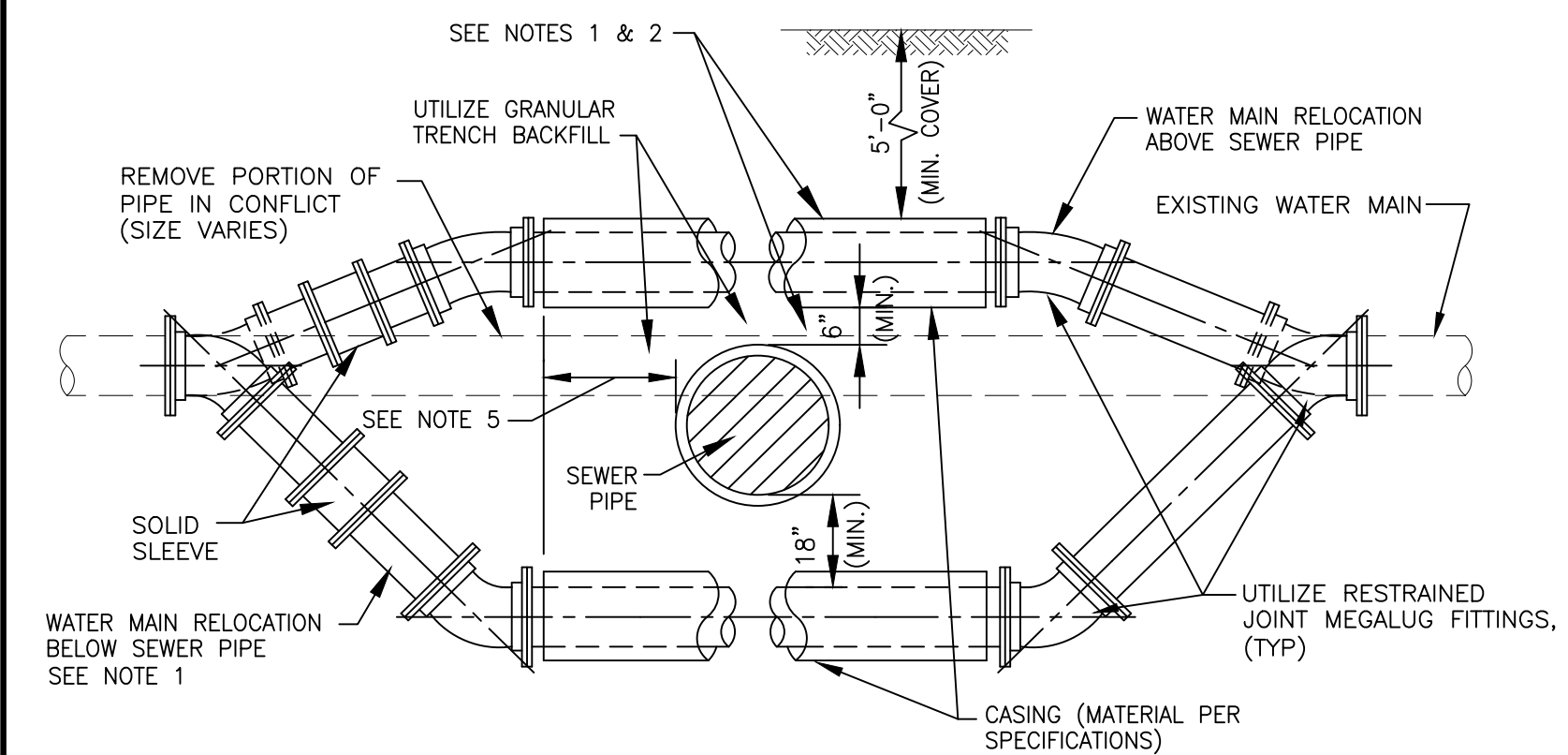
1. ECCENTRIC CONE REQUIRED
 2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8",
 USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14",
 USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
 3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF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

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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

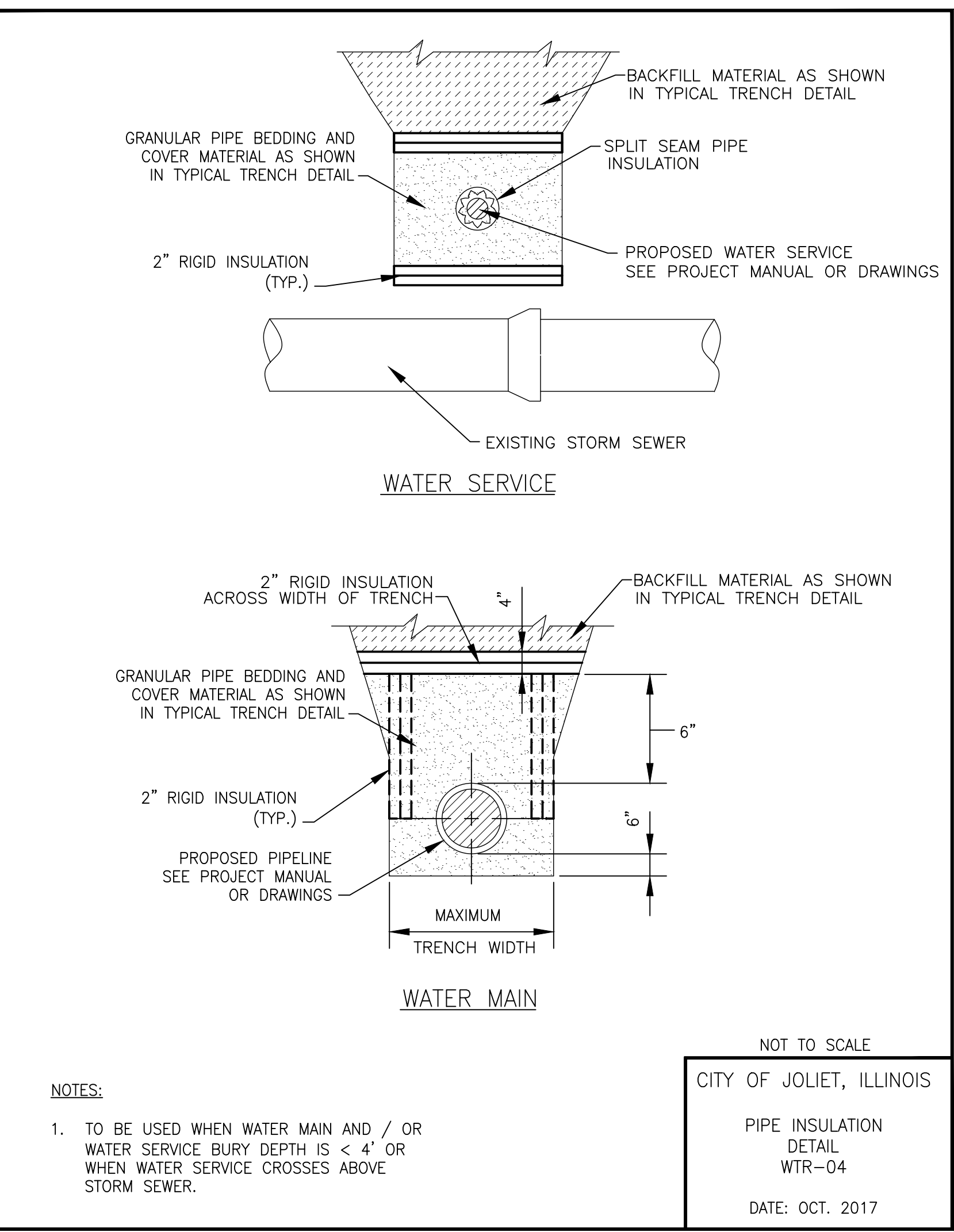
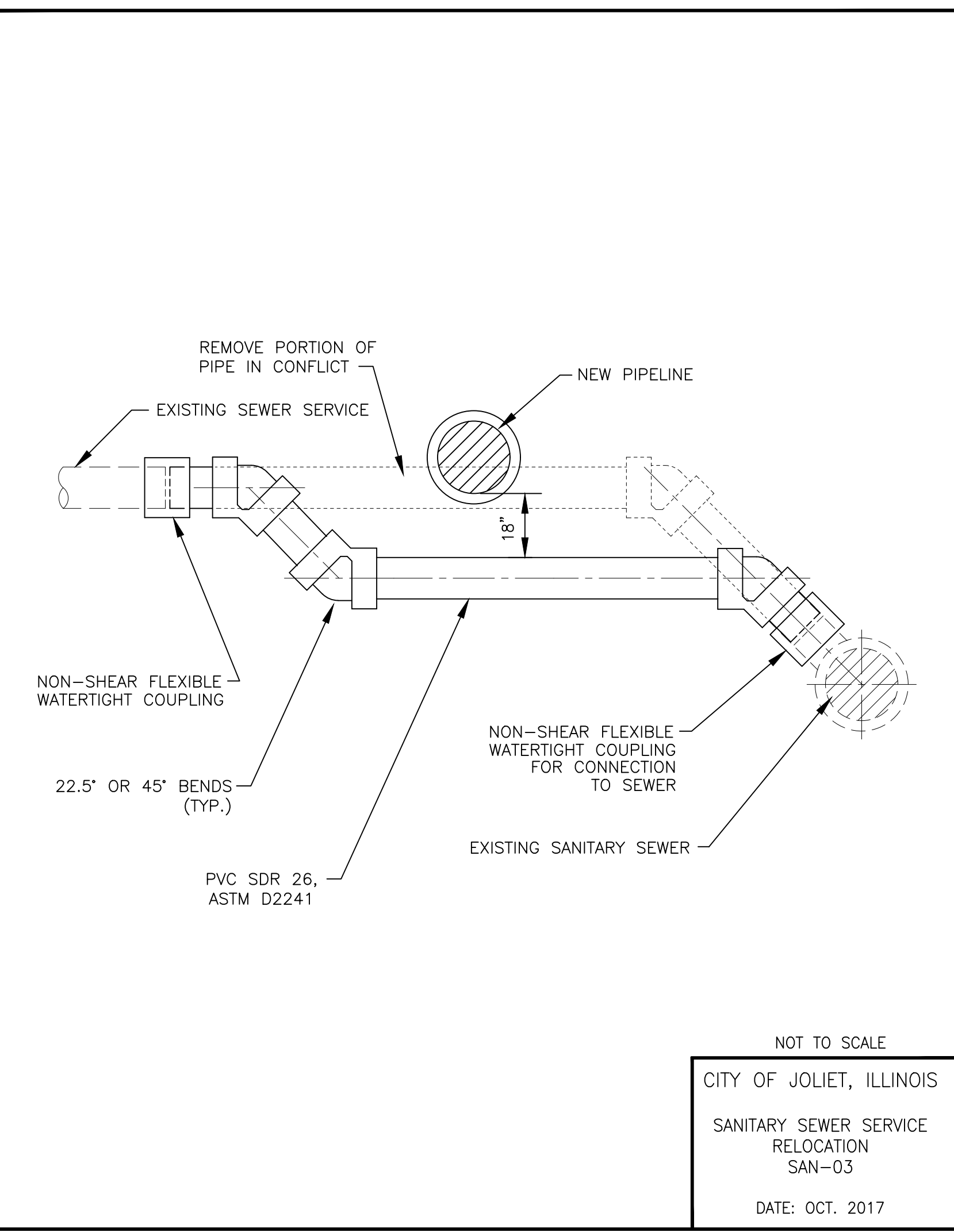
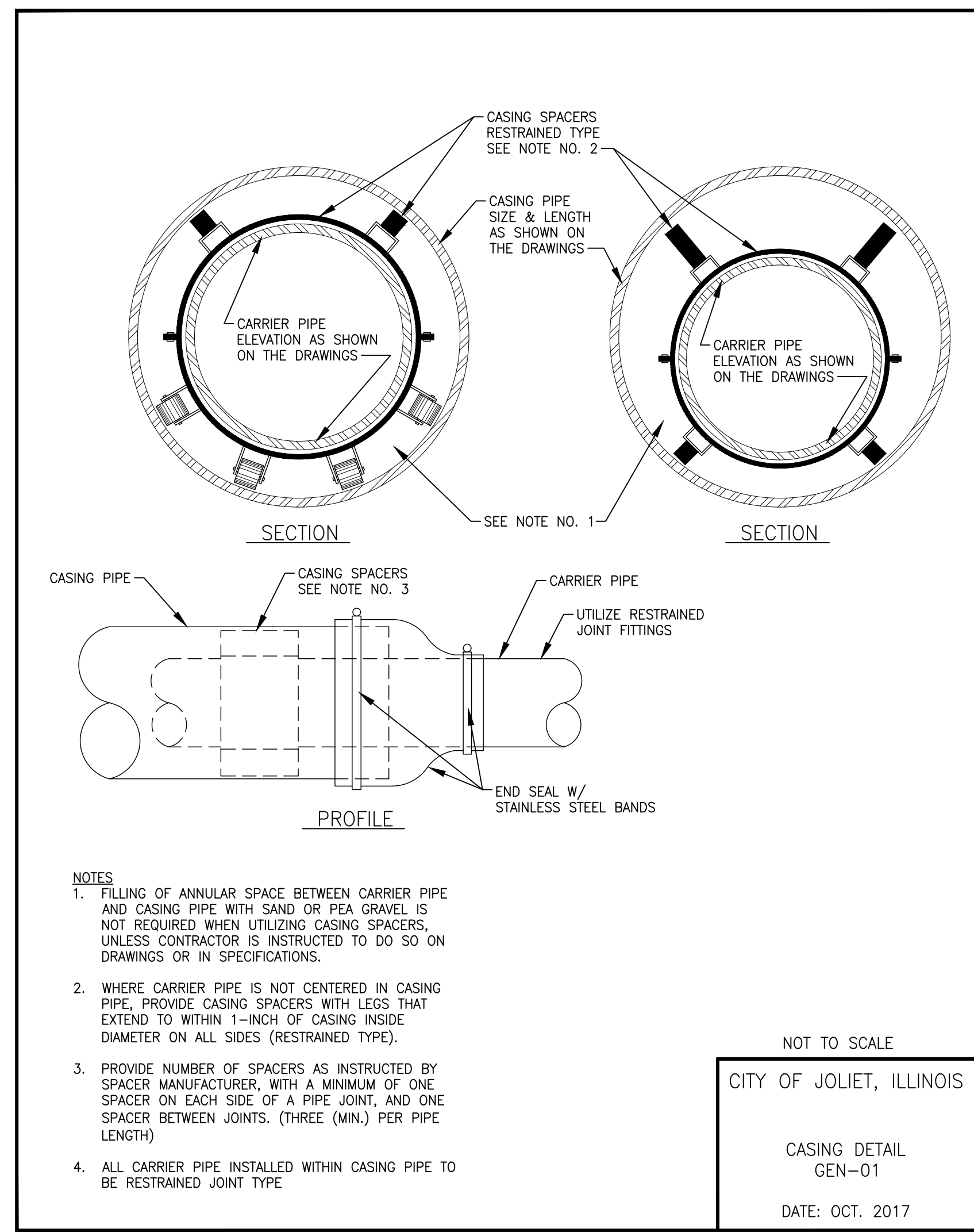
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DETAILS

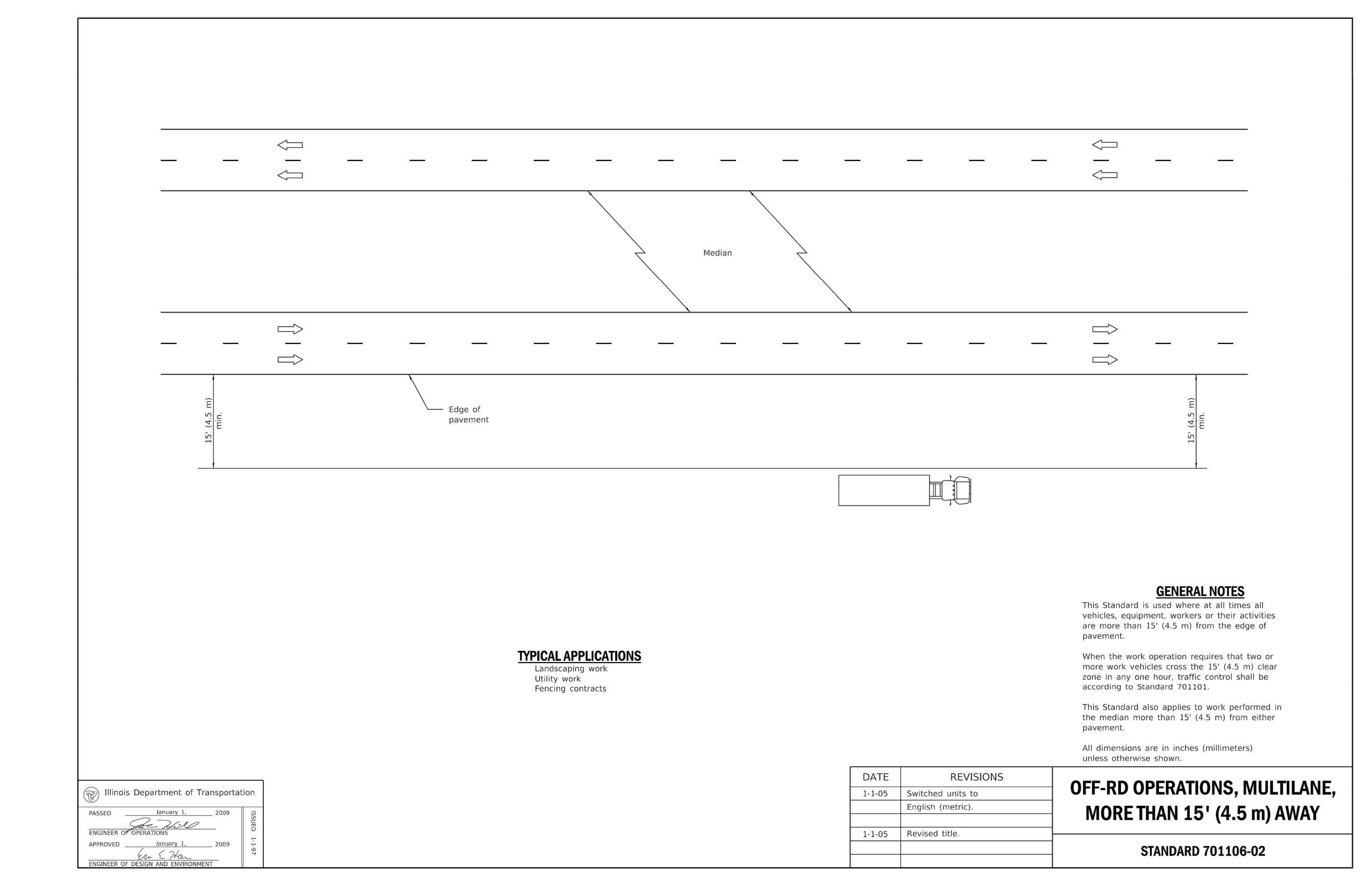
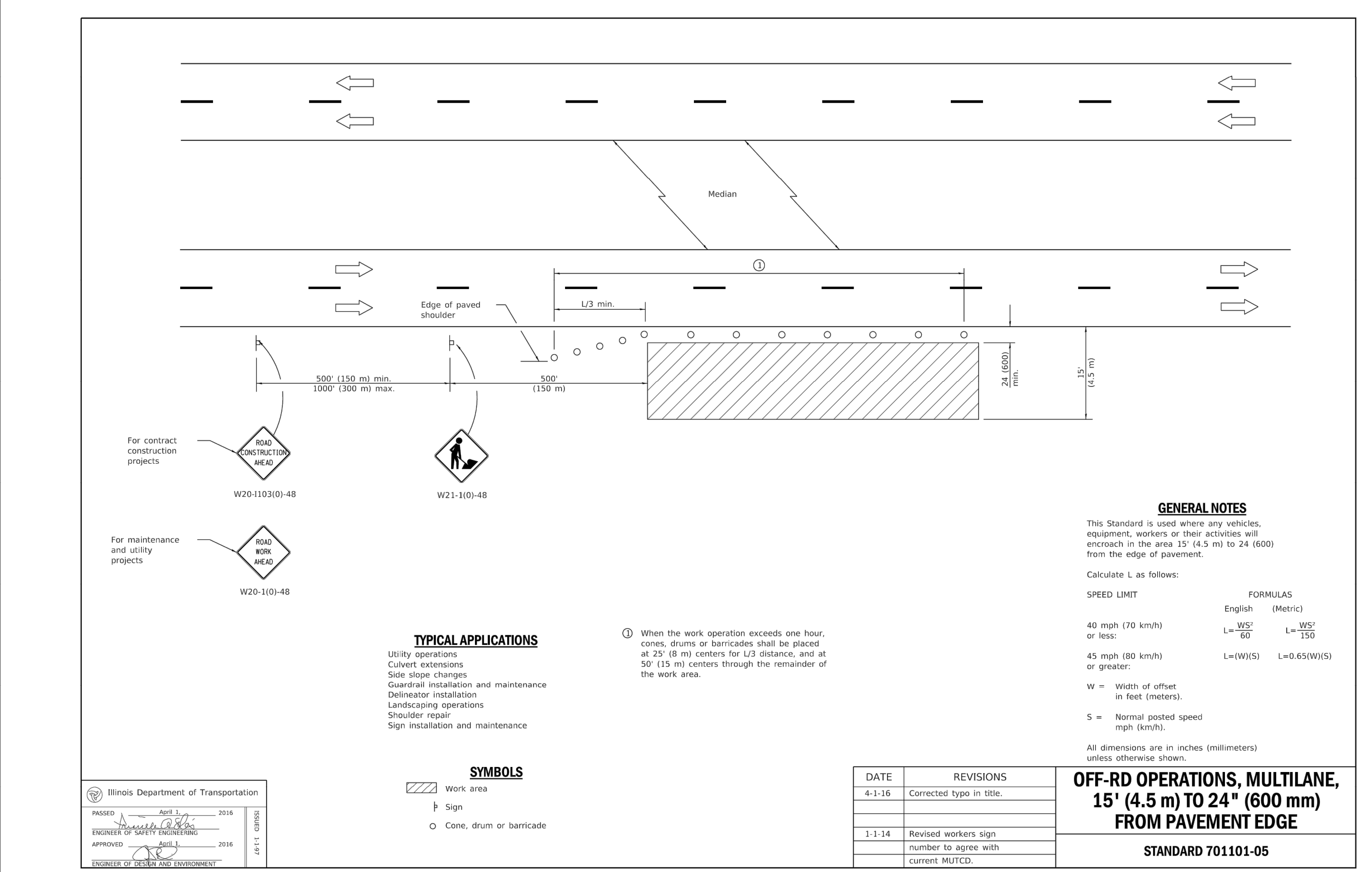
PROJECT NO: 210039.40

DESIGNED -	TOTAL SHEETS	SHEET NO.
JJR	23	22
DRAWN -		
ABN-TJB		
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
VERTICAL BEND	45'	20	25	35	40	60
	TEE	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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CITY OF JOLIET, ILLINOIS
WEST ACRES WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2610-0122

DESIGNED -	TOTAL SHEETS	SHEET NO.
JJR	23	23
DRAWN -		
ABN-TJB		
CHECKED -		
LMS		
DATE -		
11/18/21		

SCALE: AS NOTED PROJECT NO: 210039.40

FINAL DESIGN FOR BIDDING