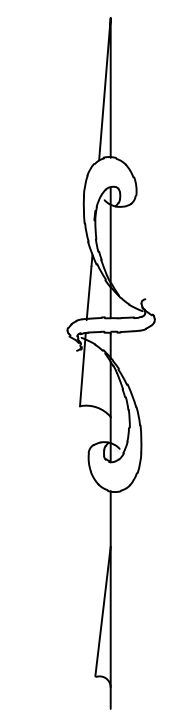


CITY OF JOLIET, ILLINOIS

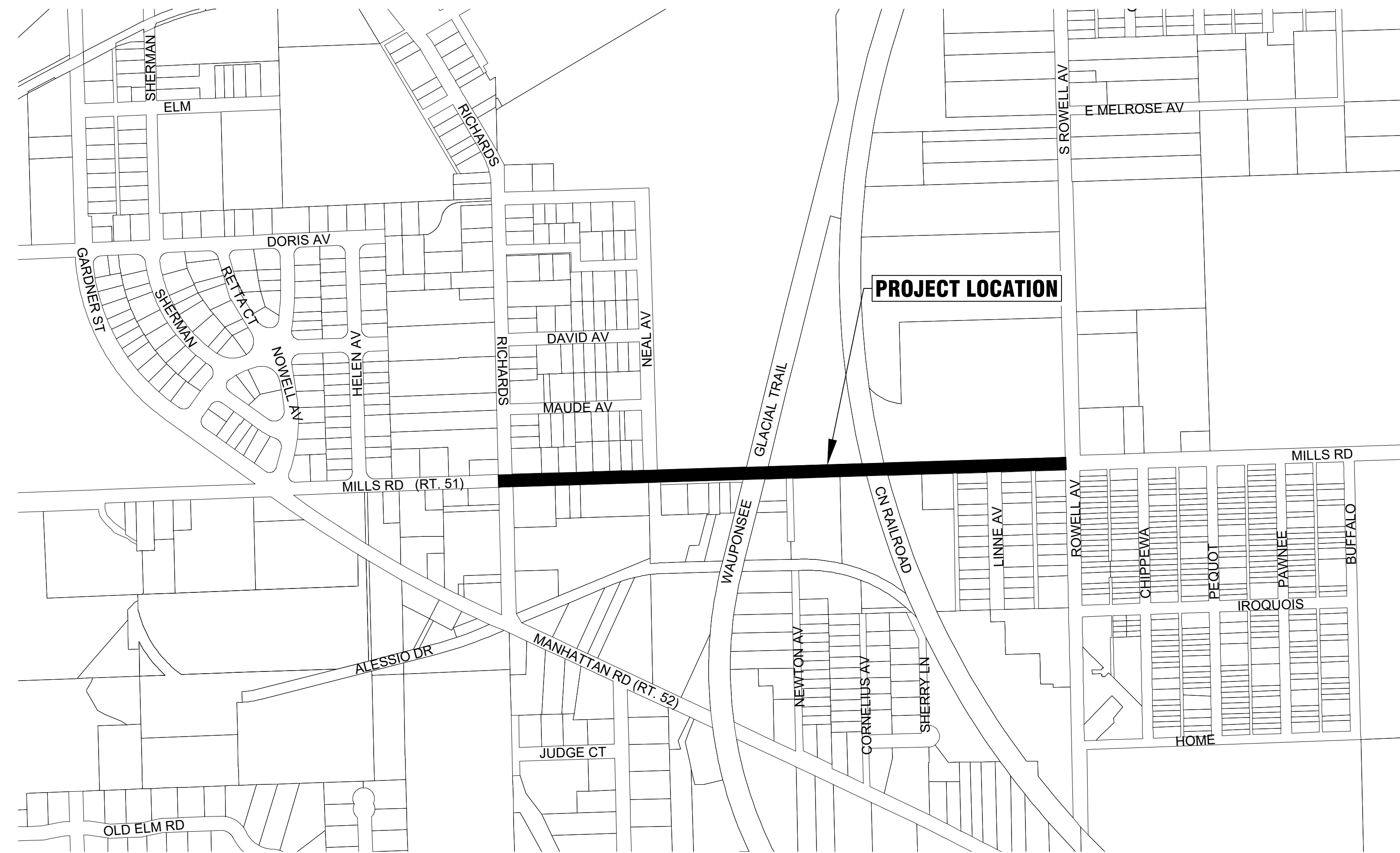
MILLS ROAD WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2441-0220

IEPA LOAN NO. L17-5430



NO SCALE



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	LEGENDS, BENCHMARKS, AND ABBREVIATIONS
3	GENERAL NOTES, AND SUMMARY OF QUANTITIES
4	MILLS ROAD SUGGESTED MAINTENANCE OF TRAFFIC STAGE 1
5	MILLS ROAD SUGGESTED MAINTENANCE OF TRAFFIC STAGE 2
6	MILLS ROAD SUGGESTED MAINTENANCE OF TRAFFIC STAGE 2
7	MILLS ROAD STA. 10+00 TO STA. 15+00 PLAN AND PROFILE
8	MILLS ROAD STA. 15+00 TO STA. 20+00 PLAN AND PROFILE
9	MILLS ROAD STA. 20+00 TO STA. 25+00 PLAN AND PROFILE
10	MILLS ROAD STA. 25+00 TO STA. 30+00 PLAN AND PROFILE
11	MILLS ROAD STA. 30+00 TO STA. 35+00 PLAN AND PROFILE
12	MILLS ROAD STA. 35+00 TO STA. 38+00 PLAN AND PROFILE
13	DETAILS
14	DETAILS
15	DETAILS
16	IDOT DETAILS
17	IDOT DETAILS
18	IDOT DETAILS

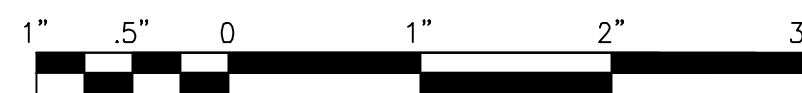
J.U.L.I.E. DESIGN STAGE REQUEST
 DIG NO. X0850490
 EXISTING UTILITIES:
 WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY 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.

Sean E. O'Neil
 PROJECT MANAGER
 LICENSE EXPIRES 11-30-2019

Lauren M. Schulz
 PROJECT ENGINEER
 LICENSE EXPIRES 11-30-2019



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BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS – PROFESSIONAL DESIGN FIRM
 LICENSE NO. – 184-001121 – EXPIRES 4/30/2021

PROJECT NO.: 190223.40 DATE: 10-23-19

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 VAULT	
	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.)	(HATCHED SHALL BE REMOVED)
	CONIFEROUS TREE (W/ HEIGHT)	(HATCHED SHALL BE REMOVED)
	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	

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. # 6		RAILROAD SPIKE SET IN NORTH FACE UTILITY POLE LOCATED AT THE SOUTHEAST CORNER OF RICHARDS STREET AND MILLS ROAD. ELEV. = 605.17
B.M. # 7		RAILROAD SPIKE SET IN SOUTH FACE UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF NEAL AVENUE AND MILLS ROAD. ELEV. = 603.44
B.M. # 8		RAILROAD SPIKE SET IN SOUTH FACE OF SECOND UTILITY POLE WEST OF THE RAILROAD CROSSING ON MILLS ROAD. ELEV. = 610.15
B.M. # 9		RAILROAD SPIKE SET IN SOUTH FACE OF UTILITY POLE LOCATED AT THE NORTHWEST CORNER OF LINNE AVENUE AND MILLS ROAD. ELEV. = 617.34
B.M. # 10		RAILROAD SPIKE SET IN SOUTH FACE OF UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF MILLS ROAD AND ROWELL AVENUE. ELEV. = 625.07

I:\MOKENA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-COVER_GEN_DETIS-MILLS.DWG 2 LEGENDS BENCHMARKS AND ABBREVIATIONS
 Plotted: 10/23/2019 10:04 AM By: 382ABN
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CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

LEGENDS, BENCHMARKS, AND ABBREVIATIONS	
SCALE: AS NOTED	PROJECT NO: 190223.40

DESIGNED -	TOTAL SHEETS	SHEET NO.
ARS	18	2
DRAWN - TJB/ABN		
CHECKED - LMS		
DATE - 10-23-19		

TO BID

CITY OF JOLIET WATER SYSTEM GENERAL NOTES

TRAFFIC CONTROL 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.
- 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 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.
- 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.
- 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 COMPRESSION TYPE FIRE HYDRANTS WITH A 5/4-INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O-RING SEALS, TWO 2 1/2-INCH HOSE NOZZLES, AND A 4 1/2-INCH PUMPER NOZZLE WITH NATIONAL STANDARD THREADS, A NATIONAL STANDARD OPERATING NUT, AND AN ABOVE GROUND BREAK FLANGE. COLOR FOR HYDRANTS ON POTABLE DISTRIBUTION MAINS SHALL BE RED, HYDRANTS ON RAW WATER MAINS SHALL BE GREEN. COLOR FOR PRIVATE SYSTEM HYDRANTS SHALL BE YELLOW. ACCEPTABLE MANUFACTURERS ARE CLOW MEDALLION, EJ 5BR250, OR MUELLER CENTURION A423.
- PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.
- GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA C515 (DUCTILE IRON BODY), BRONZE FITTED, RESILIENT WEDGE AND SEAT TYPE WITH NON-RISING STEM AND O-RING PACKING. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE A FUSION BONDED EPOXY COATING. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.
- BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH AWWA C504 FOR PRESSURE CLASS 150B, CAST IRON BODY, RUBBER-SEATED, TIGHT CLOSING TYPE SUITABLE FOR BURIED SERVICE. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.
- 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.
- 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.
- 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.
- USE MECHANICAL JOINT FITTINGS TO PLUG/CAP EXISTING WATER MAINS TO REMAIN IN SERVICE AND FOR EXISTING WATER MAINS TO BE ABANDONED. PLUGS/CAPS ON WATER MAIN TO REMAIN IN SERVICE SHALL INCLUDE AN ADEQUATELY SIZED CAST-IN-PLACE CONCRETE THRUST BLOCK.
- 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.
- 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.
- 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.
 - MILLS ROAD SHALL HAVE 10 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
 - RICHARDS STREET SHALL HAVE 10 BINDER AND 2 INCHES OF SURFACE COURSE.
- 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.

- MILLS RD HAS A POSTED SPEED LIMIT OF 30 MPH.
- RICHARDS ST HAS A POSTED SPEED LIMIT OF 35 MPH.
- ALL CONFLICTING PAVEMENT MARKINGS, INCLUDING SKIP DASHES WITHIN LANE CLOSURE TAPERS, SHALL BE COVERED WITH BLACKOUT TAPE.
- THE CONTRACTOR SHALL SUBMIT IDOT FORM BSPE-725 FOR LANE CLOSURES ALONG RICHARDS ST.
- MAINTAIN TEMPORARY ACCESS TO ALL HOMES AND BUSINESSES UNLESS SPECIFICALLY NOTED.
- UTILIZE FLAGGERS ON NEAL AVE AND TEMPORARY PAVEMENT WITHIN INTERSECTION TO MAINTAIN ACCESS. NEAL AVE TO REMAIN OPEN DURING CONSTRUCTION.
- ALL TRENCHES AND HOLES SHALL BE FILLED OR COVERED WITH STEEL PLATES AT THE END OF EACH DAY. ALL LANES SHALL BE OPEN AT THE END OF EACH WORK DAY. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- SEE HIGHWAY STANDARDS FOR ADDITIONAL DETAILS AND REQUIREMENTS NOT SHOWN ON MOT PLANS.
- SERVICE CONNECTIONS AND FIRE HYDRANT LEADERS THAT ARE NOT INSTALLED TRENCHLESS SHALL BE STAGED SUCH THAT ONLY ONE LANE MAY BE CLOSED AT ANY TIME IN ACCORDANCE WITH HIGHWAY STANDARDS 701501. CLOSURES FOR SERVICE OPERATIONS SHALL BE DAYTIME ONLY.
- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY 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.
- THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK PRIOR TO THE START OF WORK FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNTIL THE PREPLANNED SEQUENCE OF WORK HAS BEEN APPROVED BY THE CITY. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO PROPERTY OWNERS AND TENANTS AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE CITY AND/OR ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE; TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY EXISTS.
- THE CONTRACTOR SHALL MAINTAIN 2-WAY TRAFFIC ON ALL SIDE STREETS AND ON MILLS RD AND RICHARDS ST UNLESS OTHERWISE SHOWN.
- THE COST OF ADDITIONAL DEPLOYMENTS, SETUPS AND/OR MOBILIZATIONS NEEDED FOR STAGED CONSTRUCTION SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR WILL BE REQUIRED TO ATTEND WEEKLY PROGRESS MEETINGS WITH THE CITY AND ENGINEER TO PROVIDE WEEKLY UPDATES ON THE PROPOSED WORK SCHEDULE AND UPCOMING SEQUENCE OF CONSTRUCTION ACTIVITIES. THE WORK SCHEDULE AND SEQUENCE OF WORK WILL REQUIRE APPROVAL OF THE CITY AND COORDINATION WITH IMPACTED PROPERTY OWNERS AND TENANTS.
- ALL FLAGGERS REQUIRED FOR MAINTENANCE OF TRAFFIC, INCLUDING ANY FLAGGERS NEEDED TO MAINTAIN TRAFFIC FOR SIDE STREETS AND COMMERCIAL DRIVEWAYS, SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- AGGREGATE SURFACE WILL NOT BE ALLOWED FOR MAINTAINING MAINLINE TRAFFIC. PATCHING OPERATIONS SHALL BE STAGED SO THAT PATCHING AND/OR TEMPORARY PAVEMENT CAN BE COMPLETED ON THE SAME DAY AS PAVEMENT REMOVAL.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO DRIVEWAYS AND SIDE STREETS DURING CONSTRUCTION USING CRUSHED STONE OR CRUSHED AGGREGATE. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- ALL COMMERCIAL PROPERTIES AND PARKING LOTS SHALL BE PROVIDED AT LEAST ONE INGRESS AND ONE EGRESS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES WITH THE PROPERTY OWNERS AND TENANTS AND THE ENGINEER. IF NECESSARY, THE CONTRACTOR SHALL MAINTAIN ACCESS TO COMMERCIAL DRIVEWAYS BY USE OF FLAGGERS DURING CONSTRUCTION WORK HOURS AS DETERMINED BY THE ENGINEER.
- RESIDENTS AND BUSINESSES SHALL HAVE ACCESS TO THEIR DRIVEWAYS AT THE END OF EACH DAY, EXCEPT DURING ADJACENT CURB AND GUTTER REPLACEMENT OR CONCRETE DRIVEWAY REPLACEMENT.
- ALL TYPE I OR II BARRICADES, DRUMS, AND VERTICAL PANELS SHALL BE EQUIPPED WITH STEADY BURN MONO-DIRECTIONAL LIGHTS. UNLESS OTHERWISE NOTED ON THE PLANS, SPACING SHALL BE AT 50 FOOT INTERVALS IN TANGENTS, 20 FOOT INTERVALS IN TAPERS, AND 10 FOOT INTERVALS IN RADII AND CURVES OR AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL LIMIT THE NUMBER OF WATER MAIN SHUTDOWNS.
- ALL SAW CUTS REQUIRED FOR PATCHING AND REMOVAL ITEMS, INCLUDING PARTIAL REMOVAL NECESSARY FOR STAGE CONSTRUCTION, SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PATCHING OR REMOVAL ITEM.
- DRIVEWAY ENTRANCE SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL FOR DRIVEWAY ENTRANCE SIGNING AT ALL COMMERCIAL DRIVEWAYS ADJACENT TO TRAFFIC CONTROL OPERATIONS. RELOCATIONS OF THESE SIGNS SHALL BE COMPLETED AS NEEDED FOR EACH STAGE. THESE SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.

City of Joliet			
Mills Road Water Main Improvements			
No.	PAY ITEM	UNIT	QUANTITY
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	TRAFFIC CONTROL AND PROTECTION	LSUM	1
3	TRENCH BACKFILL	CUYD	326
4	CURED-IN-PLACE-PIPE (WATER MAIN REHABILITATION), 12INCH	FOOT	2,372
5	DUCTILE IRON WATER MAIN, 6-INCH RJT	FOOT	75
6	DUCTILE IRON WATER MAIN, 8-INCH RJT	FOOT	24
7	DUCTILE IRON WATER MAIN, 12-INCH RJT	FOOT	291
8	MISCELLANEOUS FITTINGS	POUND	2,000
9	WATER SERVICE CONNECTION TO WATER MAIN	EACH	28
10	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	93
11	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	233
12	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	93
13	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	233
14	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	FOOT	101
15	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	FOOT	233
16	WATER SERVICE LINE TYPE K - OPEN CUT, 3-INCH	FOOT	25
17	PROJECT MANAGEMENT	HOURL	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	WATER SERVICE LINE TYPE L, 1-INCH	FOOT	10
21	WATER SERVICE LINE TYPE L, 1.5-INCH	FOOT	10
22	UTILITY LOCATION - PRIVATE PROPERTY	EACH	10
23	WATER METER RELOCATION	EACH	10
24	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	2
25	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	2
26	CONNECT TO WATER MAIN (NON-PRESSURE), 12-INCH	EACH	3
27	GATE VALVE, 6-INCH	EACH	2
28	GATE VALVE, 8-INCH	EACH	2
29	GATE VALVE, 12-INCH	EACH	9
30	VALVE BOX	EACH	4
31	VALVE VAULT, 5-FOOT DIAMETER	EACH	9
32	FIRE HYDRANT	EACH	6
33	LINE STOP, 6-INCH	EACH	1
34	LINE STOP, 8-INCH	EACH	1
35	LINE STOP, 12-INCH	EACH	1
36	FIRE HYDRANT TO BE REMOVED	EACH	5
37	VALVE VAULT TO BE REMOVED	EACH	5
38	VALVE BOX TO BE REMOVED	EACH	4
39	INLET PROTECTION FILTER	EACH	10
40	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 10" BINDER & 2" SURFACE	SQYD	210
41	TEMPORARY HOT-MIX ASPHALT, 2 INCH	SQYD	100
42	GRAVEL SHOULDER RESTORATION	SQYD	96
43	CLASS D PATCH	SQYD	100
44	PCC DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	120
45	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	66
46	DETECTABLE WARNINGS	SQFT	40
47	PAVEMENT MARKINGS	FOOT	40
48	RESTORATION OF LAWNS AND PARKWAYS	SQYD	720
49	CLEARING	LSUM	1
50	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	7
51	CONTAMINATED WASTE DISPOSAL	CUYD	20
52	SOIL TESTS FOR CONTAMINANTS	EACH	20
53	EXPLORATORY EXCAVATION	EACH	1
54	WARRANTY PERIOD LEAK DETECTION	LSUM	1
55	ADDITIONAL ACCESS PIT	EACH	1
56	TEMPORARY WATER SYSTEM	LSUM	1
57	WATER USAGE	HCF	5,000

I:\MOKEMA\JOLTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-COVER_GEN_DET-S-MILLS.DWG 3 GENERAL NOTES AND SUMMARY OF QUANTITIES
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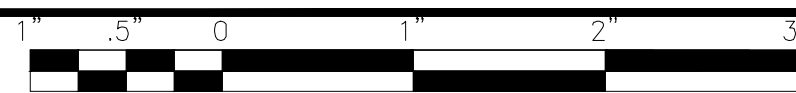
CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

GENERAL NOTES, AND SUMMARY OF QUANTITIES	
SCALE: AS NOTED	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	3
CHECKED - LMS		
DATE - 10-23-19		

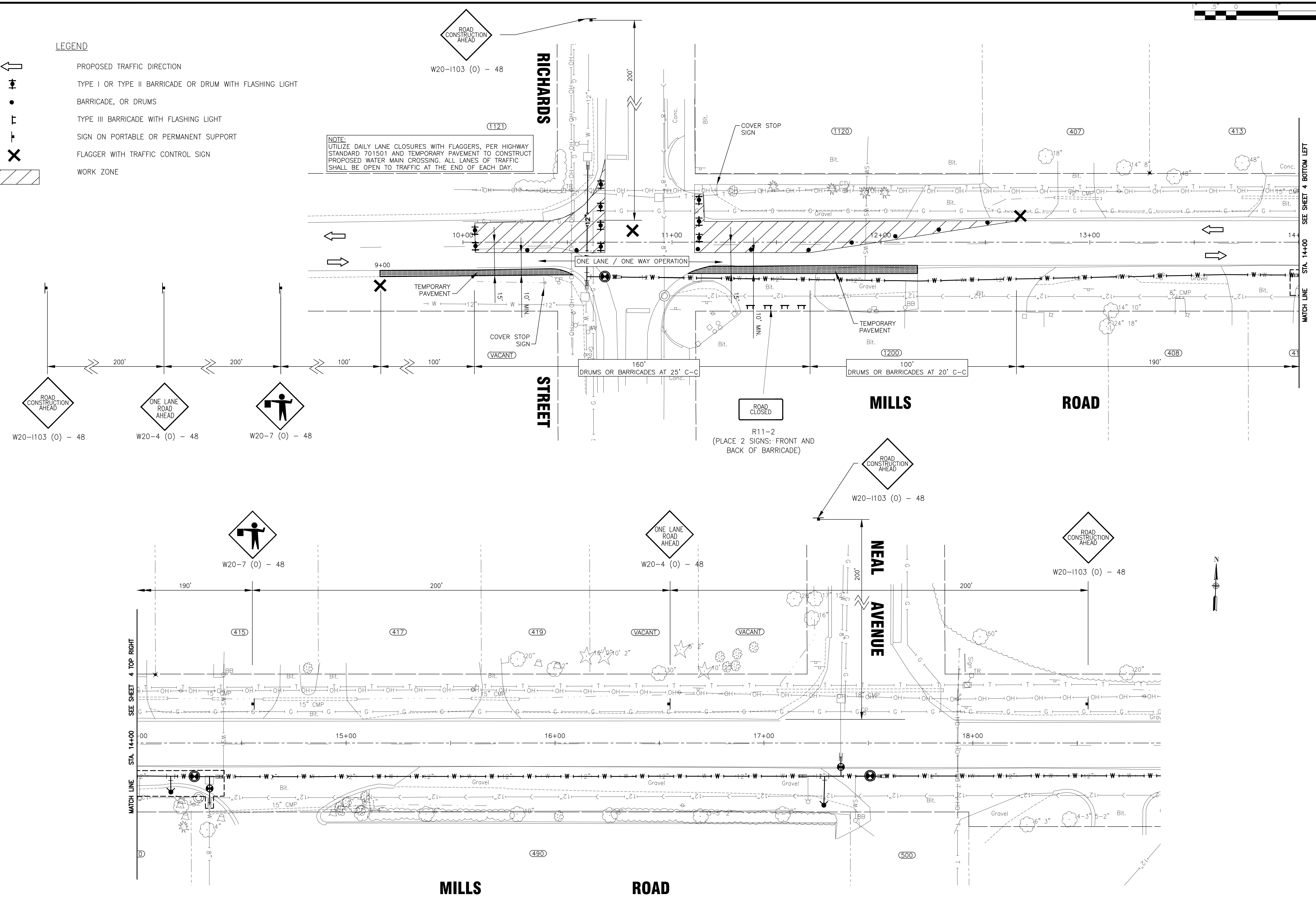
TO BID



LEGEND

- PROPOSED TRAFFIC DIRECTION
- TYPE I OR TYPE II BARRICADE OR DRUM WITH FLASHING LIGHT
- BARRICADE, OR DRUMS
- TYPE III BARRICADE WITH FLASHING LIGHT
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORK ZONE

NOTE:
 UTILIZE DAILY LANE CLOSURES WITH FLAGGERS, PER HIGHWAY STANDARD 701501 AND TEMPORARY PAVEMENT TO CONSTRUCT PROPOSED WATER MAIN CROSSING. ALL LANES OF TRAFFIC SHALL BE OPEN TO TRAFFIC AT THE END OF EACH DAY.



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 4 MILLS ROAD SUGGESTED MAINTENANCE OF TRAFFIC STAGE 1
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	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
 MILLS ROAD WATER MAIN IMPROVEMENTS**

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	4
CHECKED - LMS		
DATE - 10-23-19		

SCALE: 1" = 20'
 PROJECT NO: 190223.40
 TO BID



LEGEND

- ← PROPOSED TRAFFIC DIRECTION
- ⊥ TYPE I OR TYPE II BARRICADE OR DRUM WITH FLASHING LIGHT
- BARRICADE, OR DRUMS
- ⊥ TYPE III BARRICADE WITH FLASHING LIGHT
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ FLAGGER WITH TRAFFIC CONTROL SIGN
- ▨ WORK ZONE

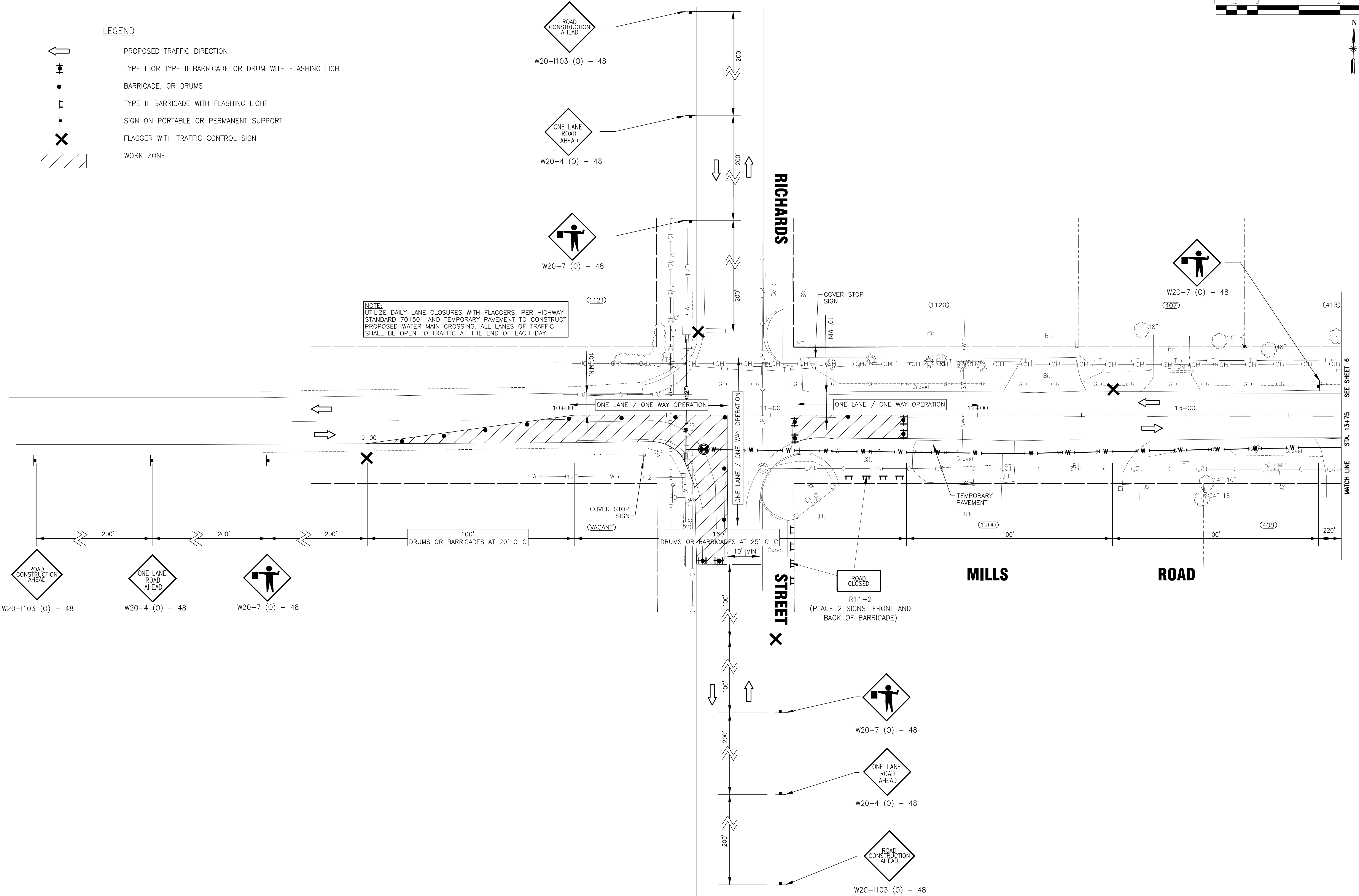
ROAD CONSTRUCTION AHEAD
W20-1103 (0) - 48

ONE LANE ROAD AHEAD
W20-4 (0) - 48

FLAGGER WITH TRAFFIC CONTROL SIGN
W20-7 (0) - 48

FLAGGER WITH TRAFFIC CONTROL SIGN
W20-7 (0) - 48

NOTE:
UTILIZE DAILY LANE CLOSURES WITH FLAGGERS, PER HIGHWAY STANDARD 701501 AND TEMPORARY PAVEMENT TO CONSTRUCT PROPOSED WATER MAIN CROSSING. ALL LANES OF TRAFFIC SHALL BE OPEN TO TRAFFIC AT THE END OF EACH DAY.



ROAD CONSTRUCTION AHEAD
W20-1103 (0) - 48

ONE LANE ROAD AHEAD
W20-4 (0) - 48

FLAGGER WITH TRAFFIC CONTROL SIGN
W20-7 (0) - 48

ROAD CLOSED
R11-2
(PLACE 2 SIGNS: FRONT AND BACK OF BARRICADE)

FLAGGER WITH TRAFFIC CONTROL SIGN
W20-7 (0) - 48

ONE LANE ROAD AHEAD
W20-4 (0) - 48

ROAD CONSTRUCTION AHEAD
W20-1103 (0) - 48

MATCH LINE STA. 13+75 SEE SHEET 6

I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 5 MILLS ROAD SUGGESTED MAINTENANCE OF TRAFFIC STAGE 2
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	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

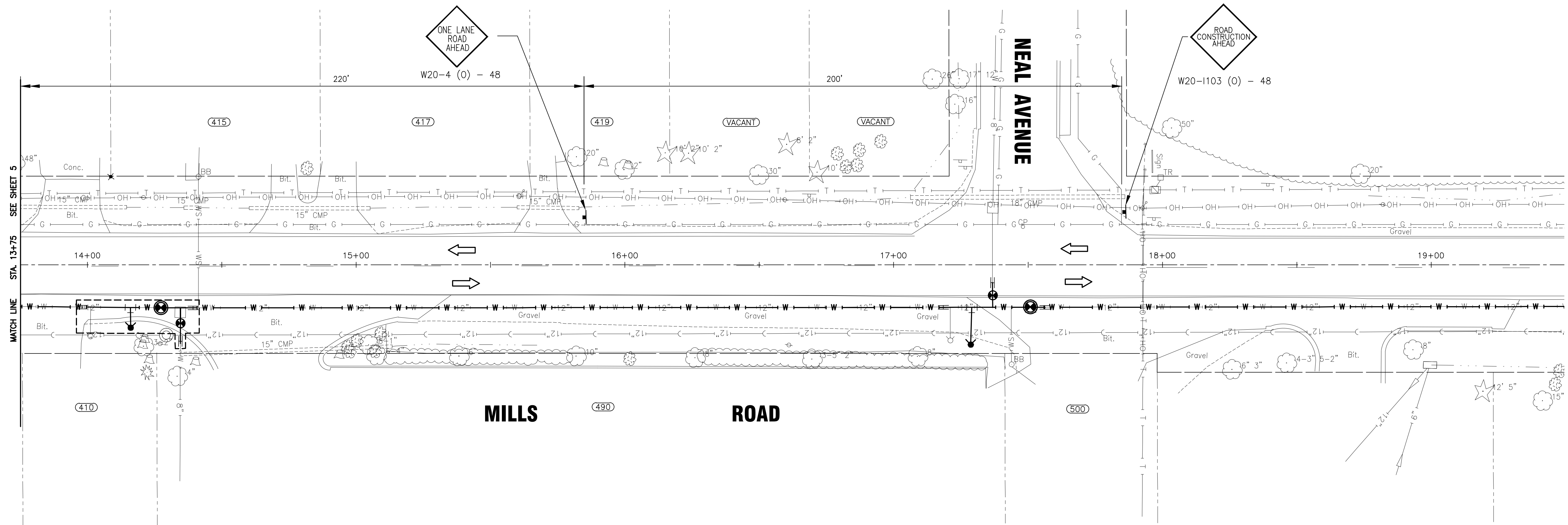
SCALE:	1" = 20'	PROJECT NO:	190223.40
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DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	5
CHECKED - LMS		
DATE - 10-23-19		

TO BID

LEGEND

- ← PROPOSED TRAFFIC DIRECTION
- ⊥ TYPE I OR TYPE II BARRICADE OR DRUM WITH FLASHING LIGHT
- BARRICADE, OR DRUMS
- ⊥ TYPE III BARRICADE WITH FLASHING LIGHT
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ FLAGGER WITH TRAFFIC CONTROL SIGN
- ▨ WORK ZONE



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 6 MILLS ROAD SUGGESTED MAINTENANCE OF TRAFFIC STAGE 2
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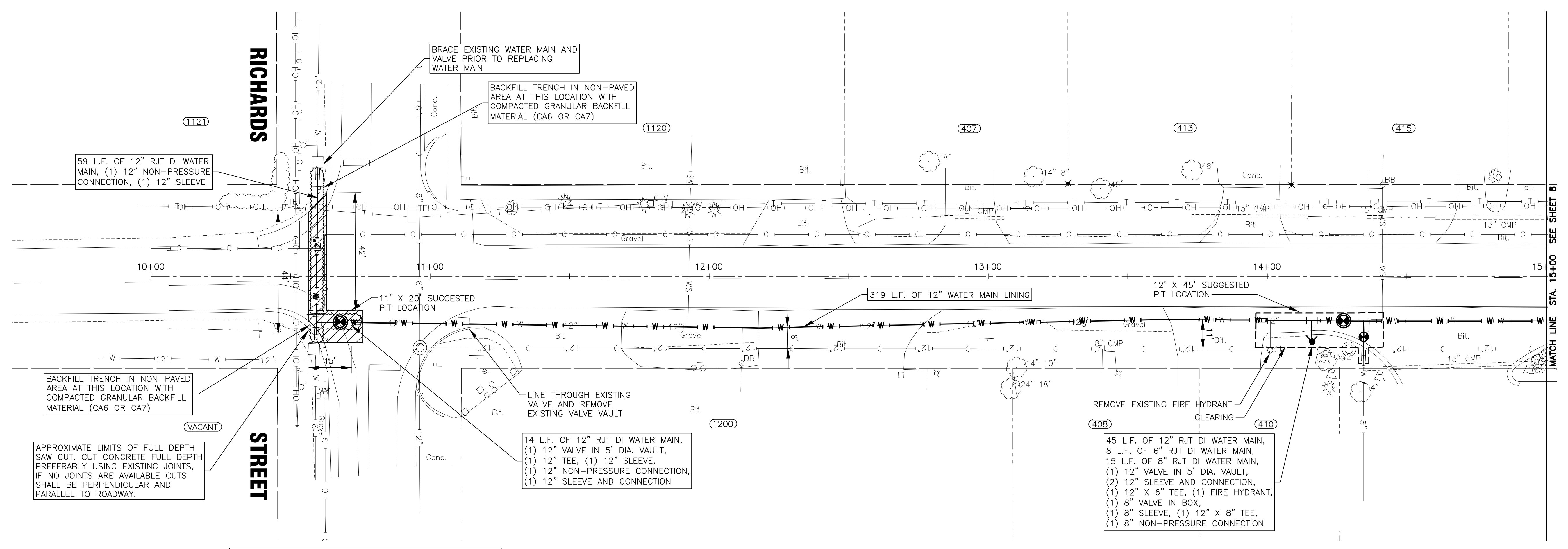
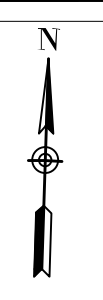
CONSULTANTS	REVISED -
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	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

SCALE: 1" = 20'	PROJECT NO: 190223.40
-----------------	-----------------------

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	6
CHECKED - LMS		
DATE - 10-23-19		

TO BID



BACKFILL TRENCH IN NON-PAVED AREA AT THIS LOCATION WITH COMPACTED GRANULAR BACKFILL MATERIAL (CA6 OR CA7)

VACANT

APPROXIMATE LIMITS OF FULL DEPTH SAW CUT. CUT CONCRETE FULL DEPTH PREFERABLY USING EXISTING JOINTS. IF NO JOINTS ARE AVAILABLE CUTS SHALL BE PERPENDICULAR AND PARALLEL TO ROADWAY.

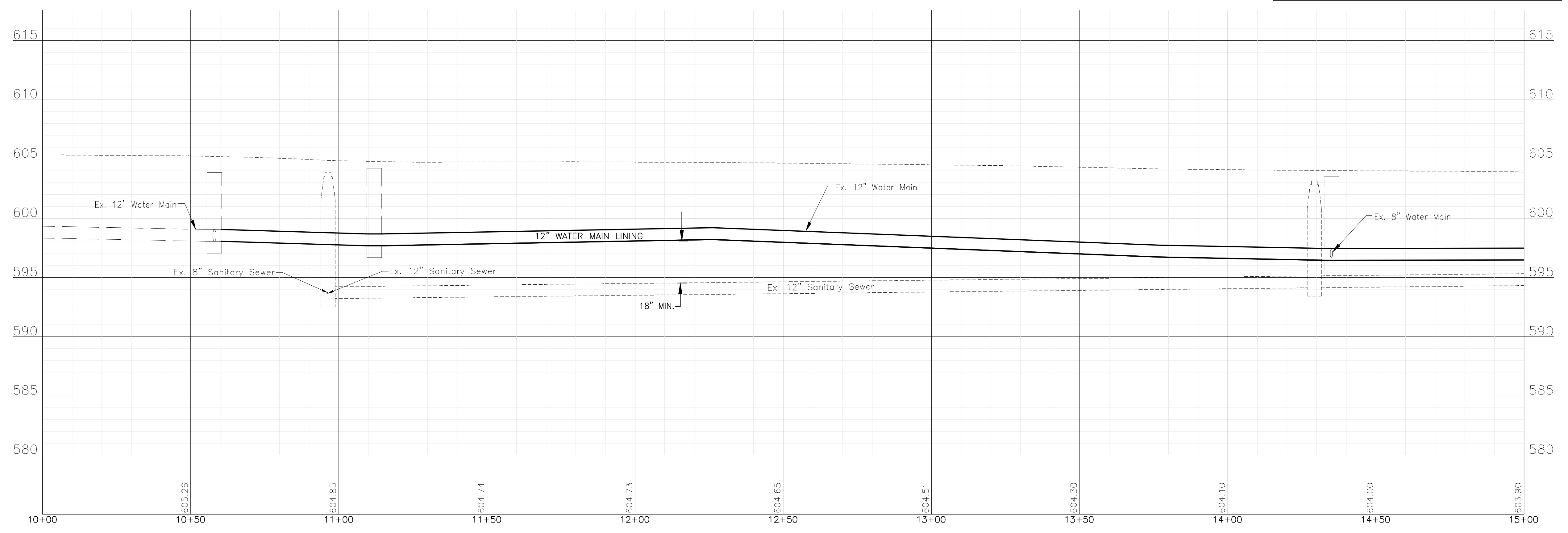
NOTE:
 1. GAS MAIN SUPPORT MUST BE COORDINATED WITH NICOR GAS
 2. TRENCH MUST BE COVERED WITH STEEL PLATES (SECURED) AT END OF EACH WORK DAY

MILLS ROAD

REMOVE EXISTING FIRE HYDRANT CLEARING

45 L.F. OF 12" RJT DI WATER MAIN, 8 L.F. OF 8" RJT DI WATER MAIN, 15 L.F. OF 8" RJT DI WATER MAIN, (1) 12" VALVE IN 5' DIA. VAULT, (2) 12" SLEEVE AND CONNECTION, (1) 12" X 6" TEE, (1) FIRE HYDRANT, (1) 8" VALVE IN BOX, (1) 8" SLEEVE, (1) 12" X 8" TEE, (1) 8" NON-PRESSURE CONNECTION

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



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 7 MILLS ROAD STA. 10+00 TO STA. 15+00 PLAN AND PROFILE
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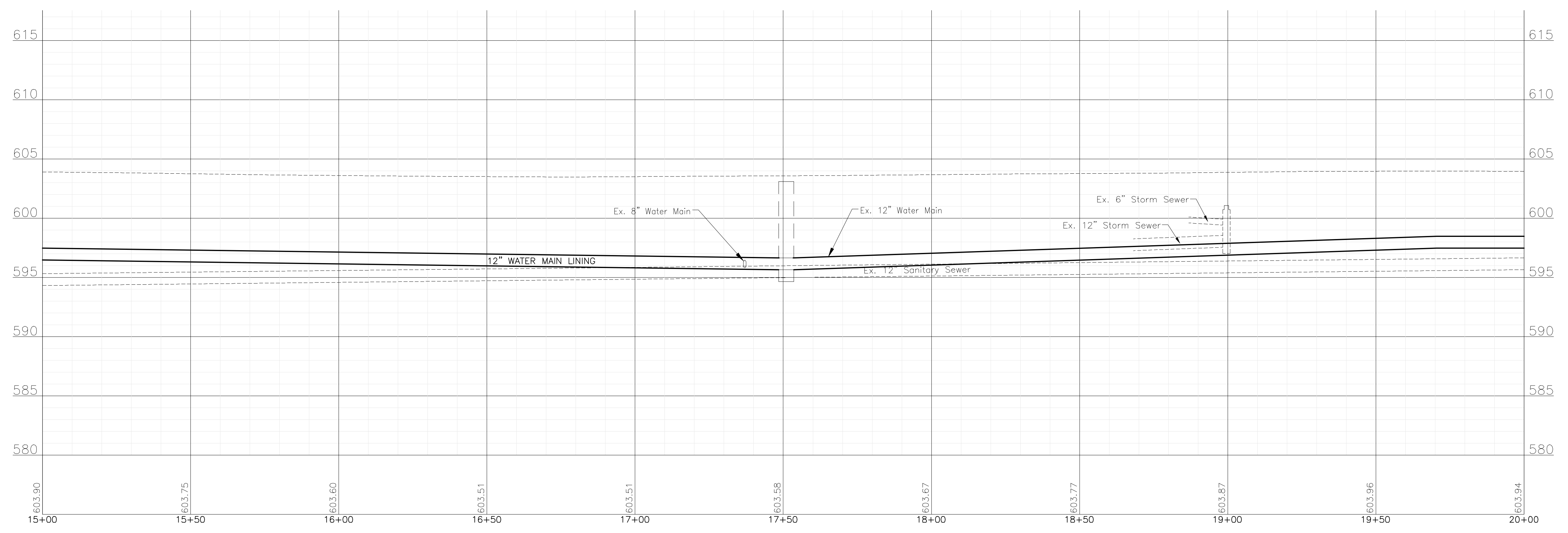
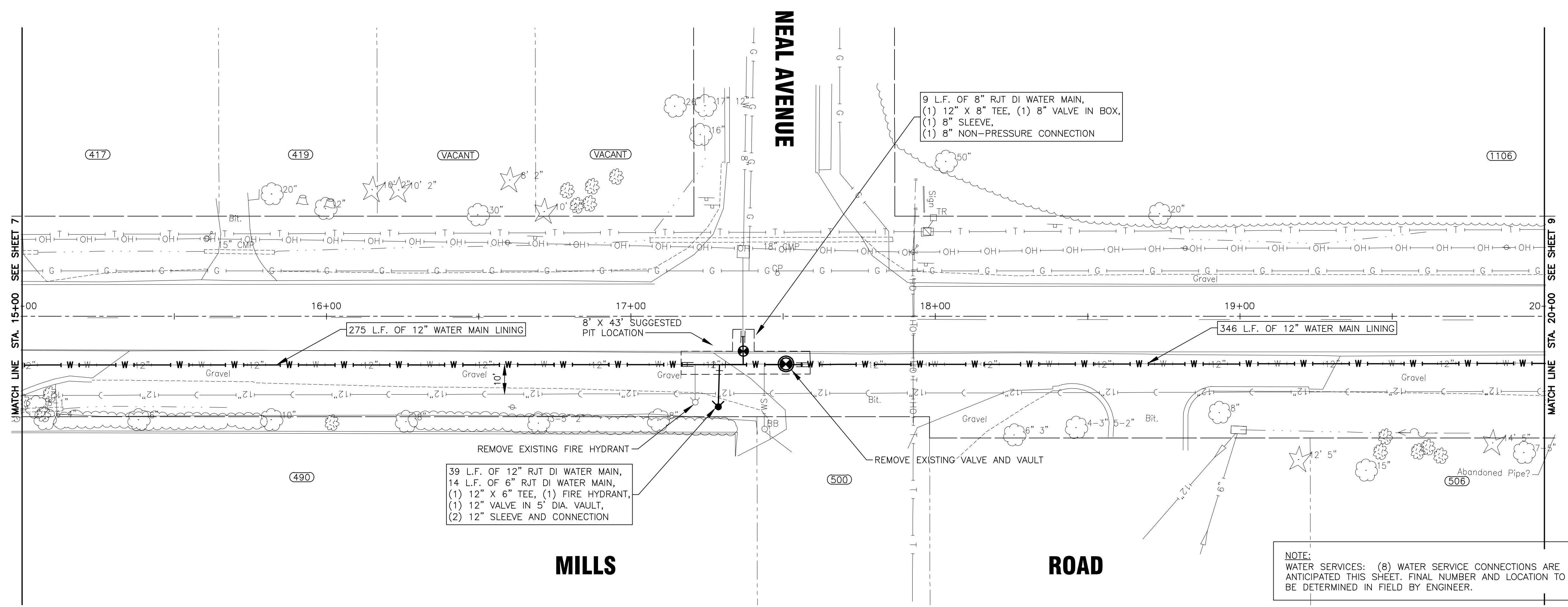
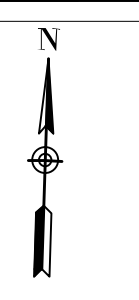
CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
 MILLS ROAD WATER MAIN IMPROVEMENTS**

MILLS ROAD STA. 10+00 TO STA. 15+00 PLAN AND PROFILE	
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	7
CHECKED - LMS		
DATE - 10-23-19		

TO BID



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 8 MILLS ROAD STA. 15+00 TO STA. 20+00 PLAN AND PROFILE
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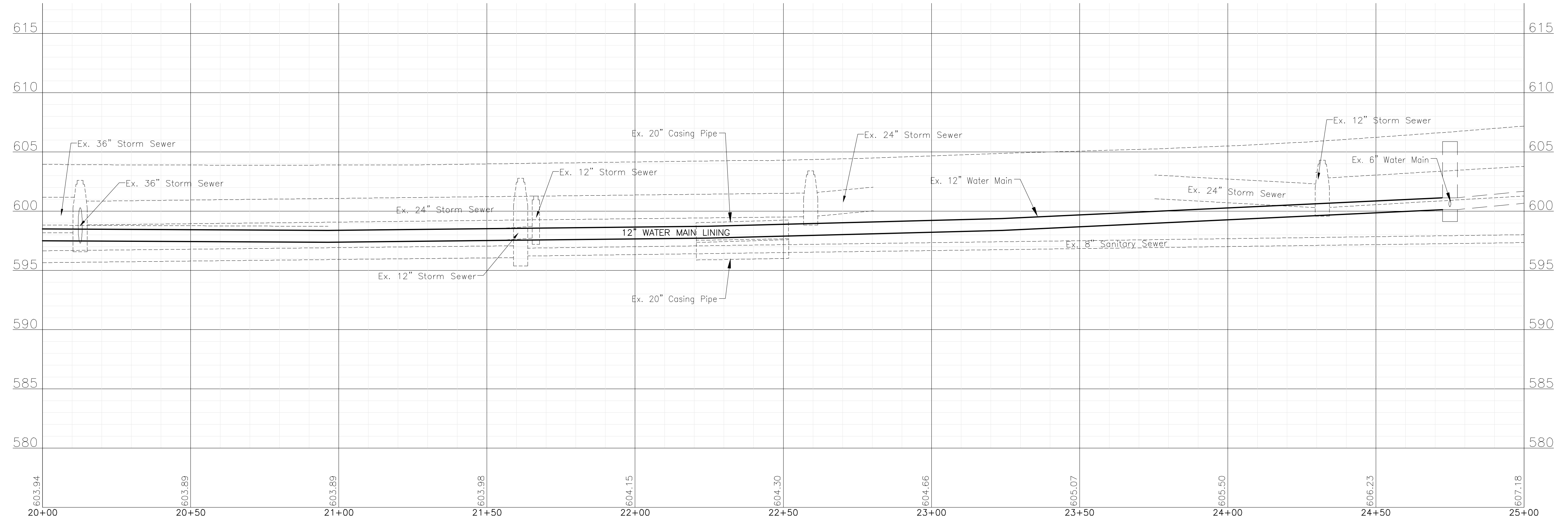
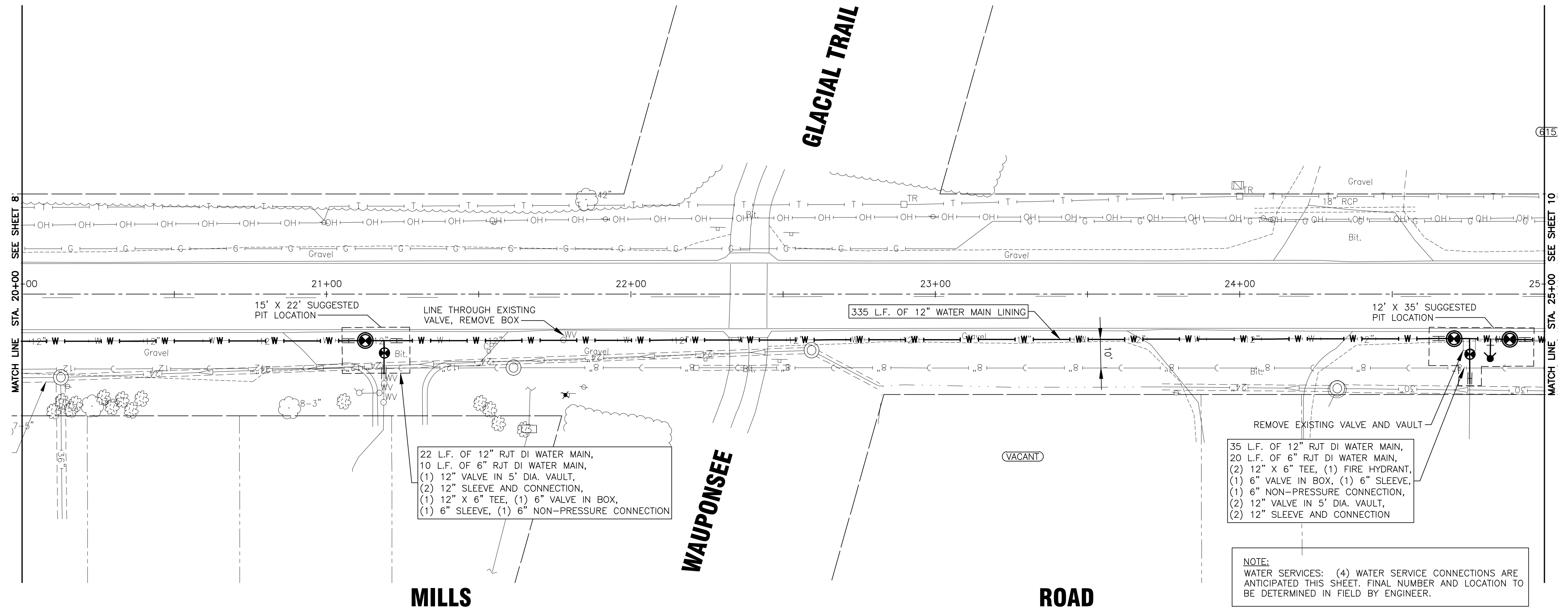
CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS

MILLS ROAD STA. 15+00 TO STA. 20+00 PLAN AND PROFILE	
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	8
CHECKED - LMS		
DATE - 10-23-19		

TO BID



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 9 MILLS ROAD STA. 20+00 TO STA. 25+00 PLAN AND PROFILE
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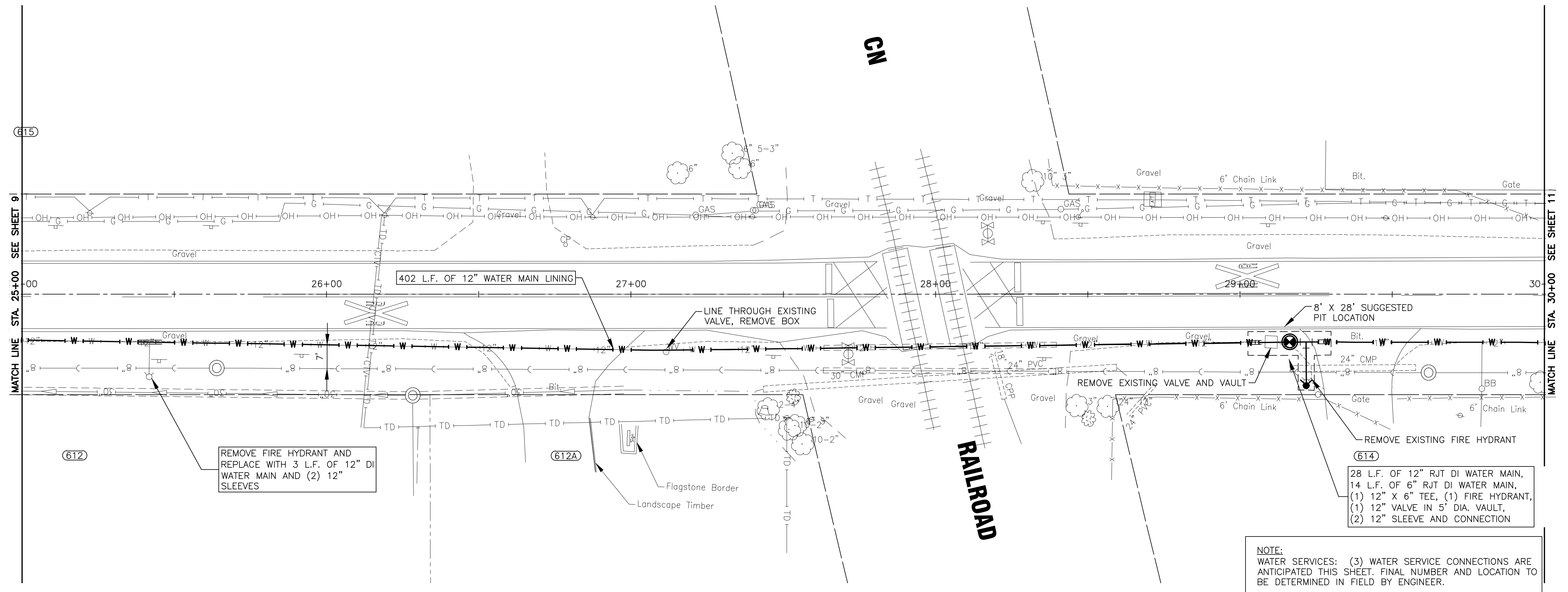
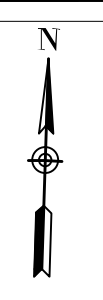
CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS

MILLS ROAD STA. 20+00 TO STA. 25+00 PLAN AND PROFILE	
SCALE:	HORIZ 1"=20' / VERT 1"=5'
PROJECT NO:	190223.40

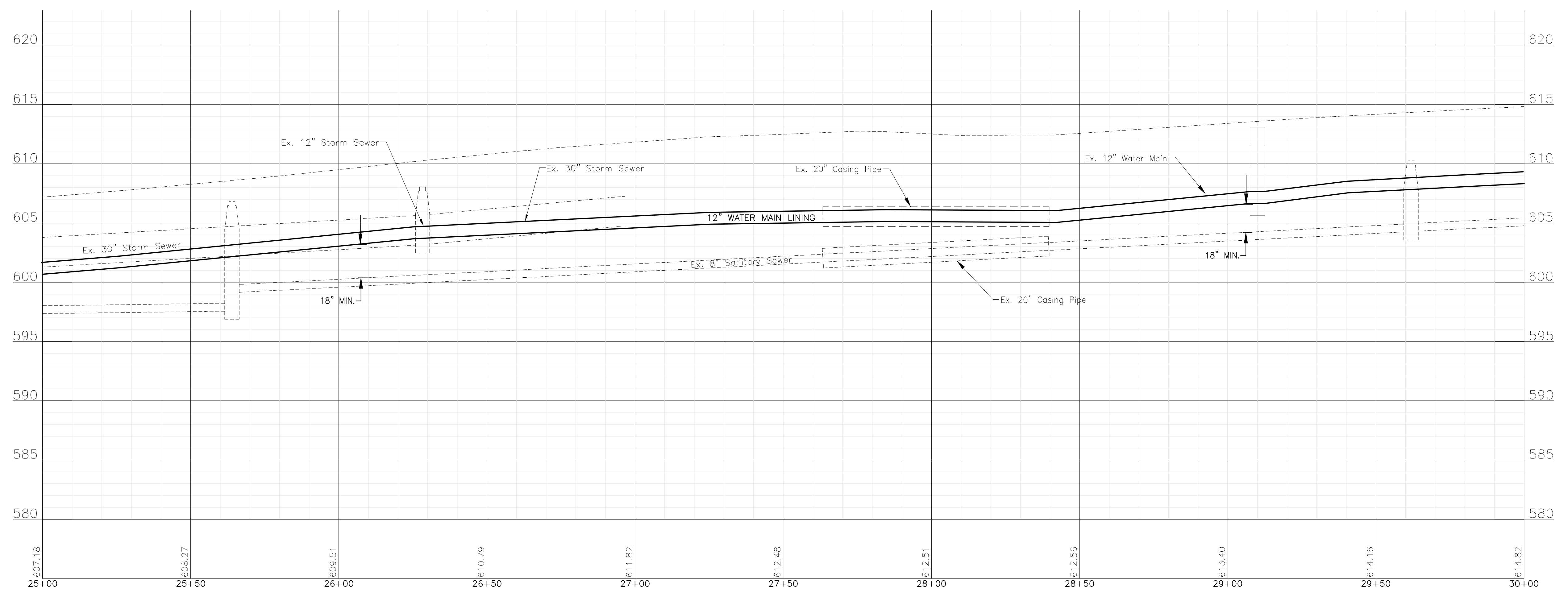
DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	9
CHECKED - LMS		
DATE - 10-23-19		

TO BID



NOTE:
WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.

MILLS ROAD



I:\MOKEMA\JUL13\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 10 MILLS ROAD STA. 25+00 TO STA. 30+00 PLAN AND PROFILE
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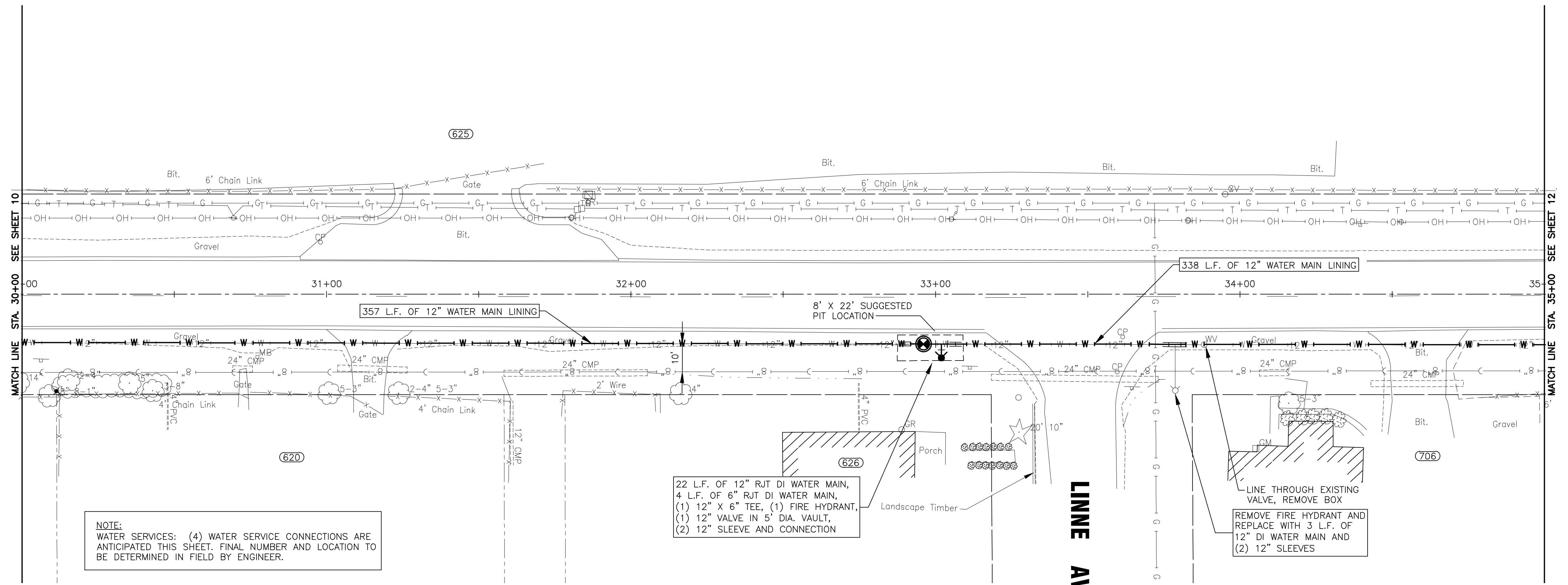
CONSULTANTS	REVISED -
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	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

MILLS ROAD STA. 25+00 TO STA. 30+00 PLAN AND PROFILE	
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	10
CHECKED - LMS		
DATE - 10-23-19		

TO BID



NOTE:
WATER SERVICES: (4) WATER SERVICE CONNECTIONS ARE ANTICIPATED THIS SHEET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.

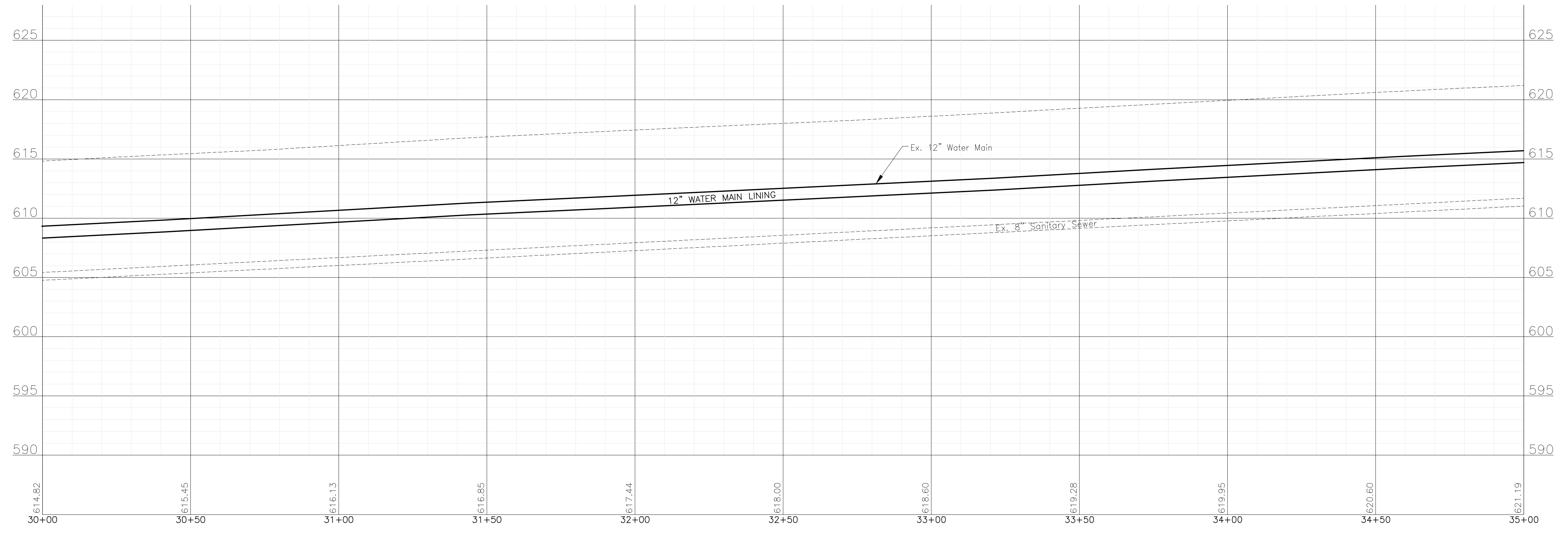
22 L.F. OF 12" RJT DI WATER MAIN,
4 L.F. OF 6" RJT DI WATER MAIN,
(1) 12" X 6" TEE, (1) FIRE HYDRANT,
(1) 12" VALVE IN 5' DIA. VAULT,
(2) 12" SLEEVE AND CONNECTION

LINE THROUGH EXISTING VALVE, REMOVE BOX
REMOVE FIRE HYDRANT AND REPLACE WITH 3 L.F. OF 12" DI WATER MAIN AND (2) 12" SLEEVES

MILLS

ROAD

LINNE AVENUE



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 11 MILLS ROAD STA. 30+00 TO STA. 35+00 PLAN AND PROFILE
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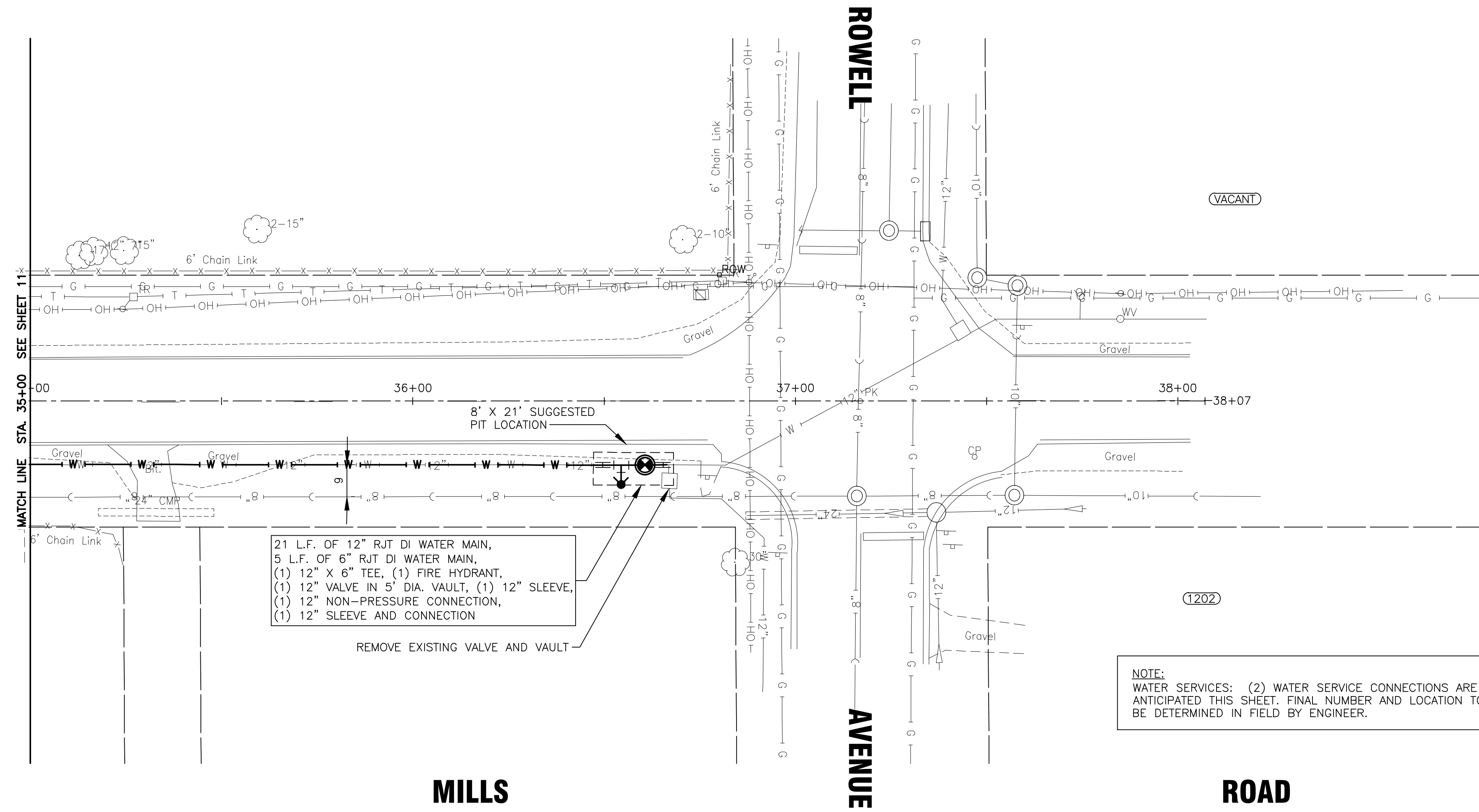
CONSULTANTS	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS

MILLS ROAD STA. 30+00 TO STA. 35+00 PLAN AND PROFILE	
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	11
CHECKED - LMS		
DATE - 10-23-19		

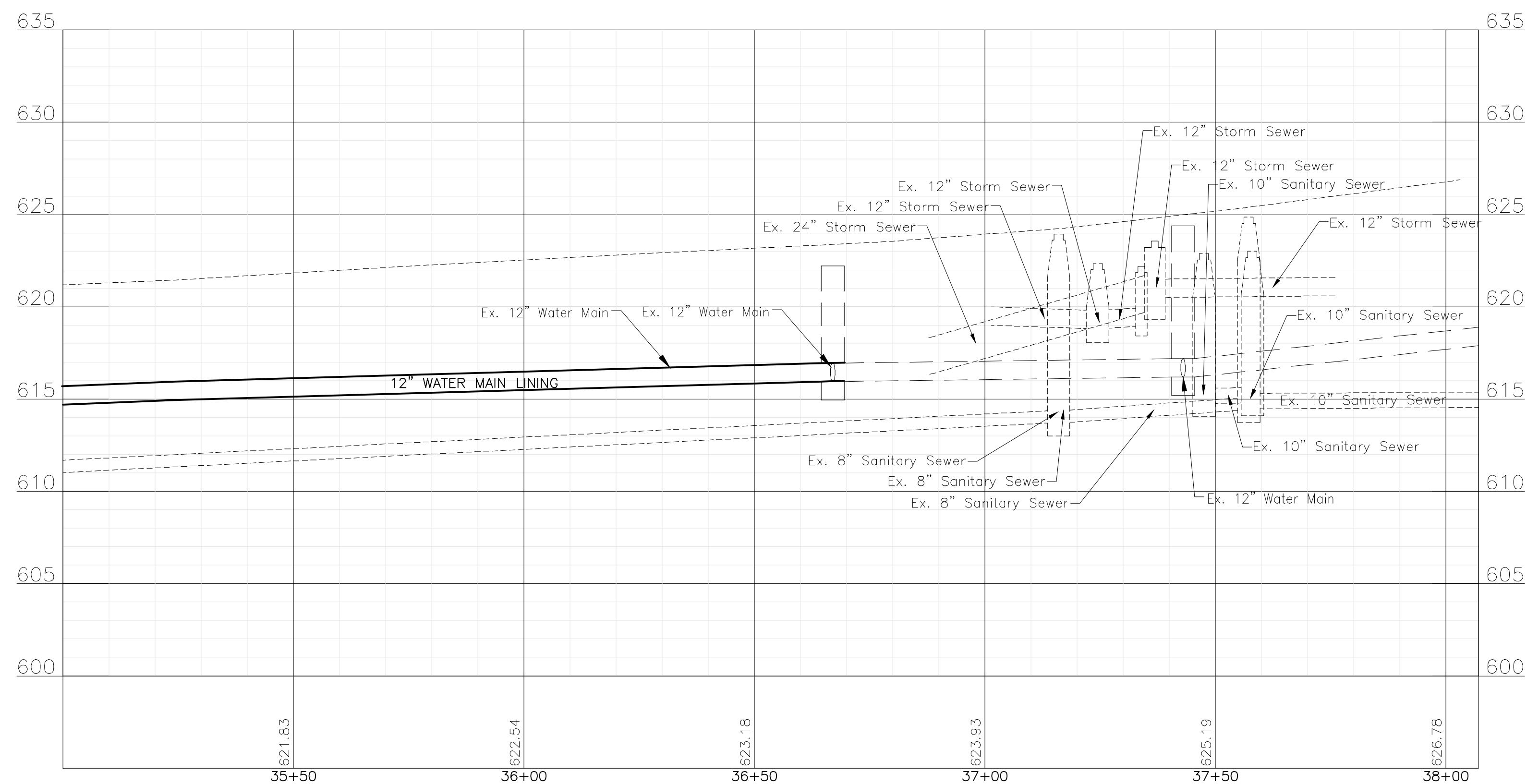
TO BID



21 L.F. OF 12" RJT DI WATER MAIN,
 5 L.F. OF 6" RJT DI WATER MAIN,
 (1) 12" X 6" TEE, (1) FIRE HYDRANT,
 (1) 12" VALVE IN 5' DIA. VAULT, (1) 12" SLEEVE,
 (1) 12" NON-PRESSURE CONNECTION,
 (1) 12" SLEEVE AND CONNECTION

REMOVE EXISTING VALVE AND VAULT

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



I:\MOKEMA\JULTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-MILLS-TOPO-C3D.DWG 12 MILLS ROAD STA. 35+00 TO STA. 38+00 PLAN AND PROFILE
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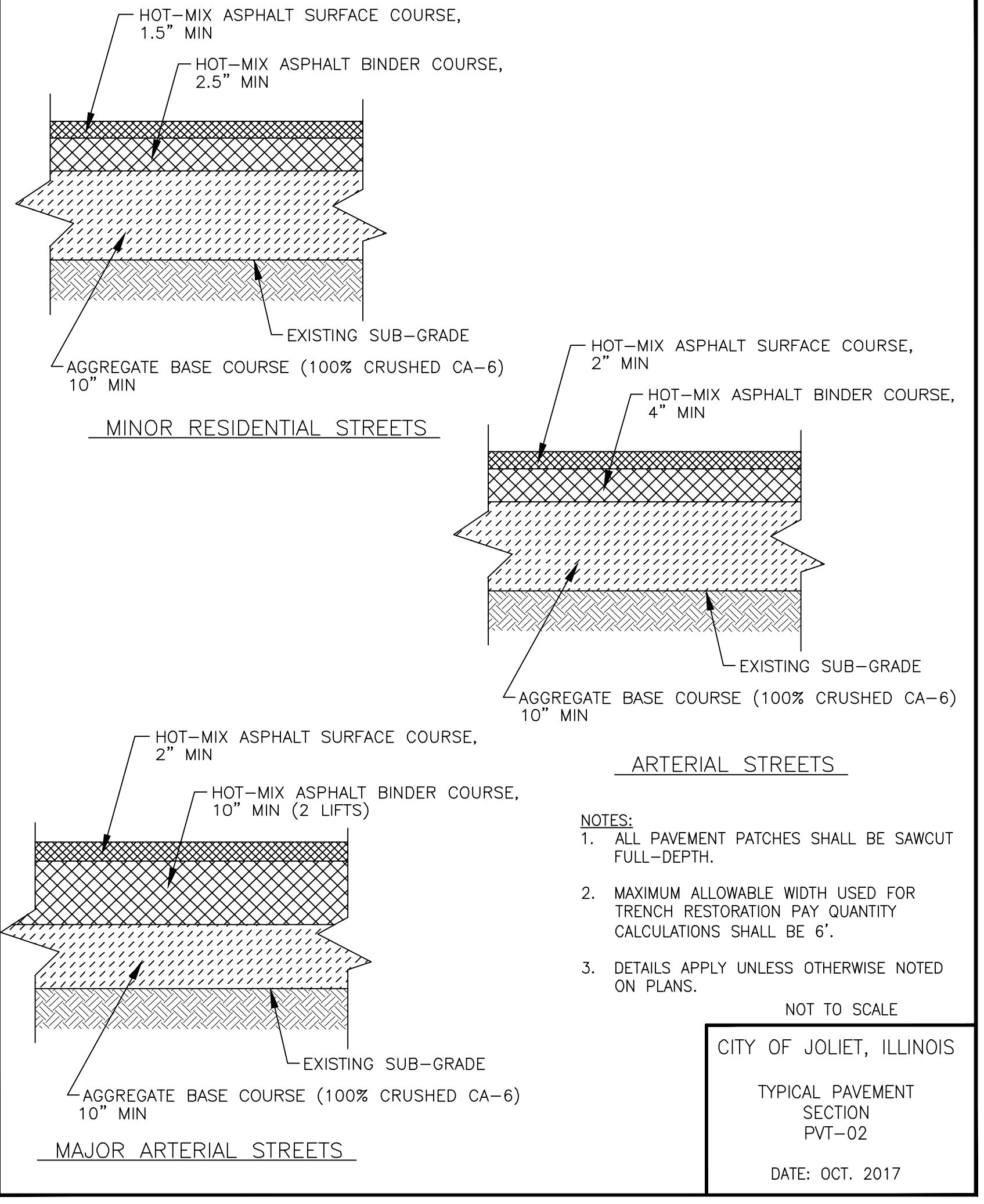
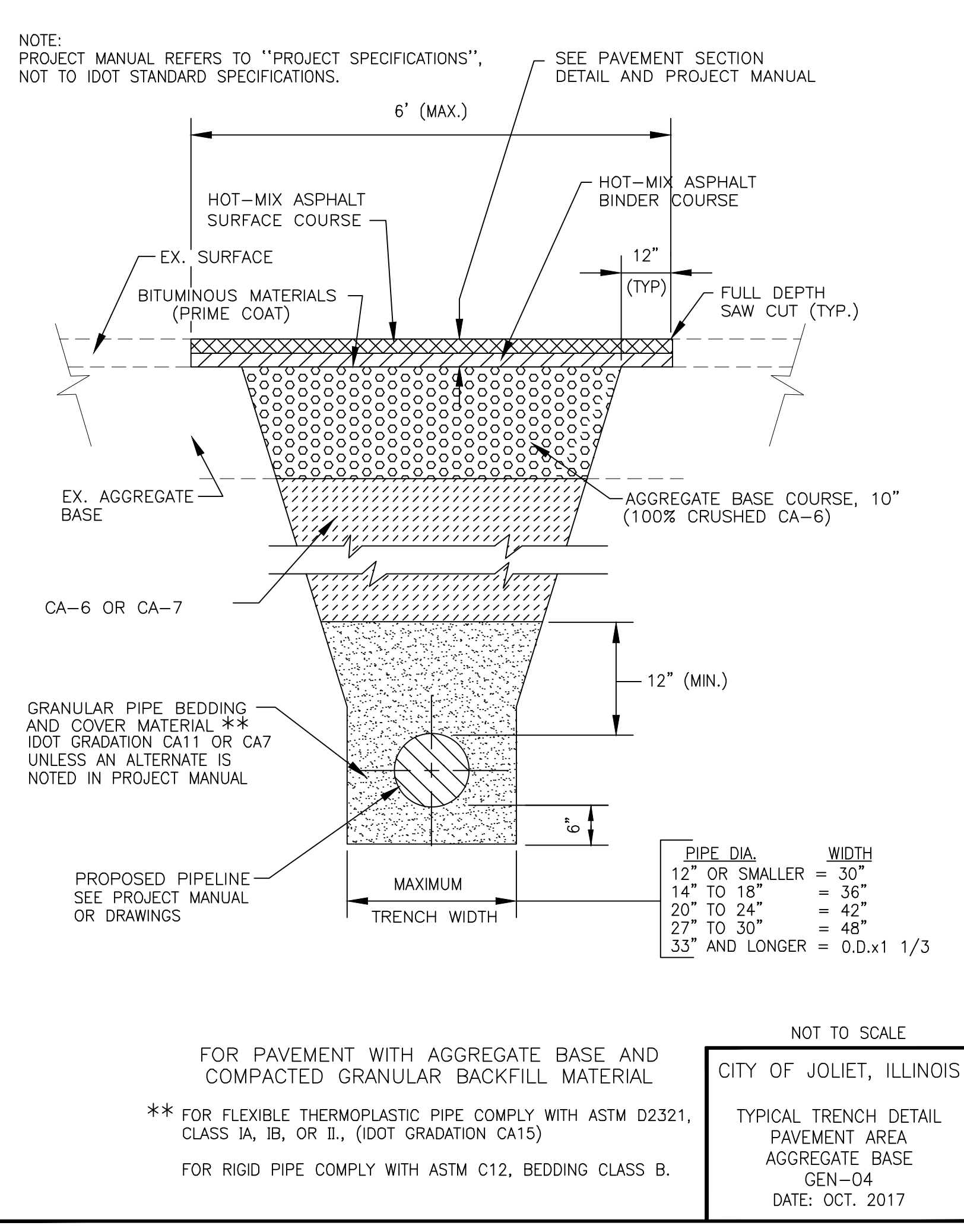
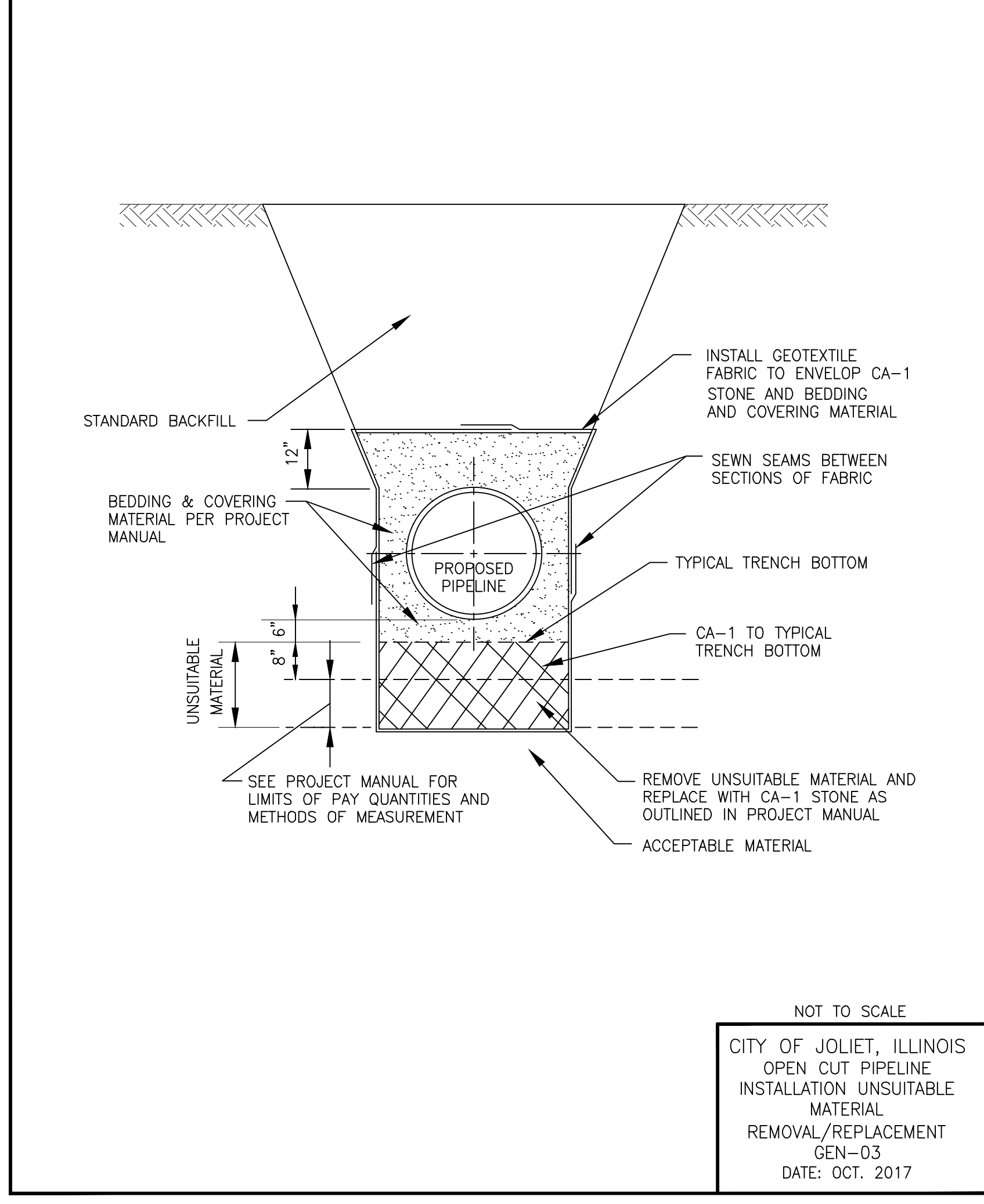
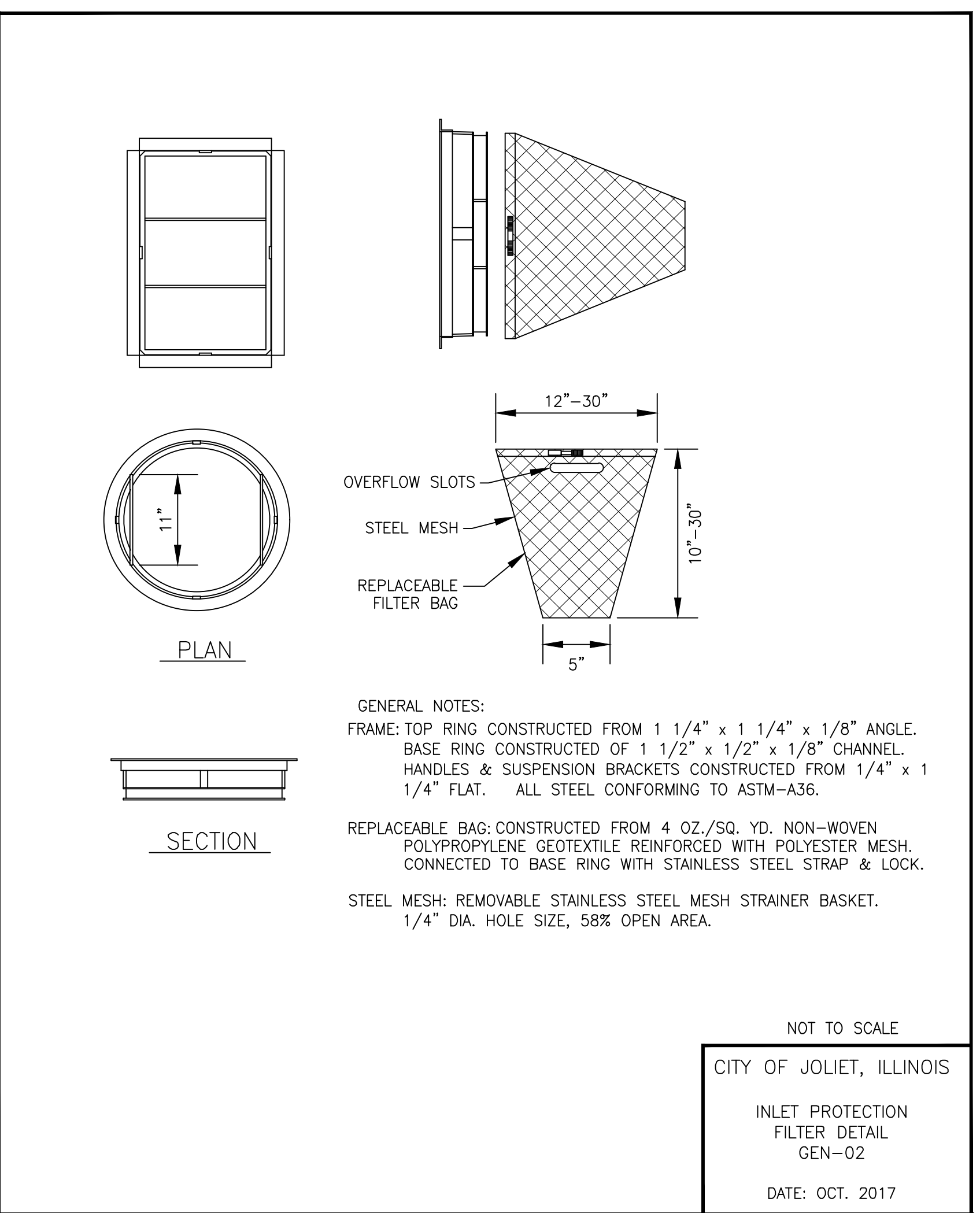
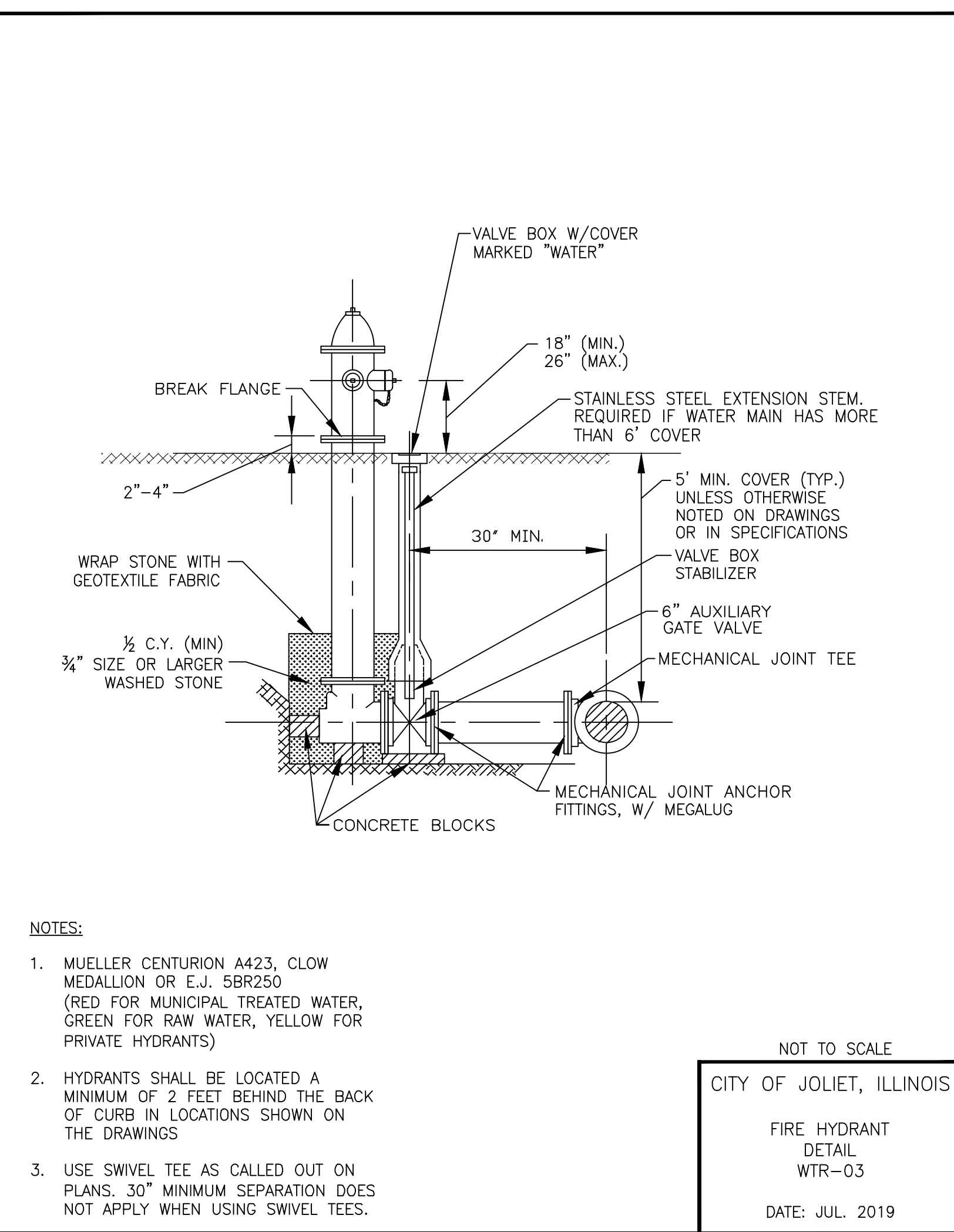
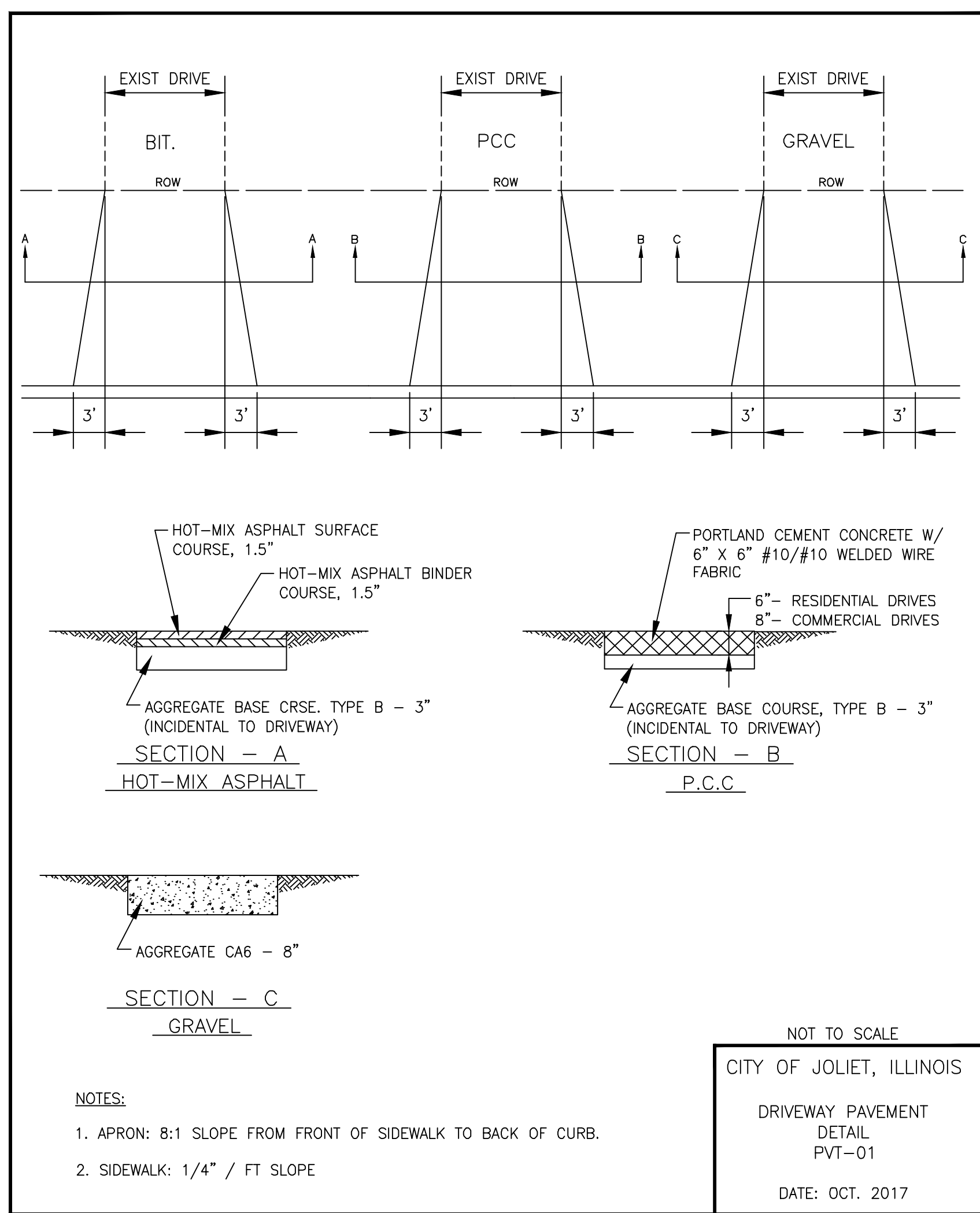
**CITY OF JOLIET, ILLINOIS
 MILLS ROAD WATER MAIN IMPROVEMENTS**

MILLS ROAD STA. 35+00 TO STA. 38+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	12
CHECKED - LMS		
DATE - 10-23-19		

TO BID



I:\MOKEMA\JOLTC\190223-2020 WATER MAIN IMPR\CA00\MILLS\190223-COVER_GEN_DET-S-MILLS.DWG 1.3 DETAILS
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	REVISED -

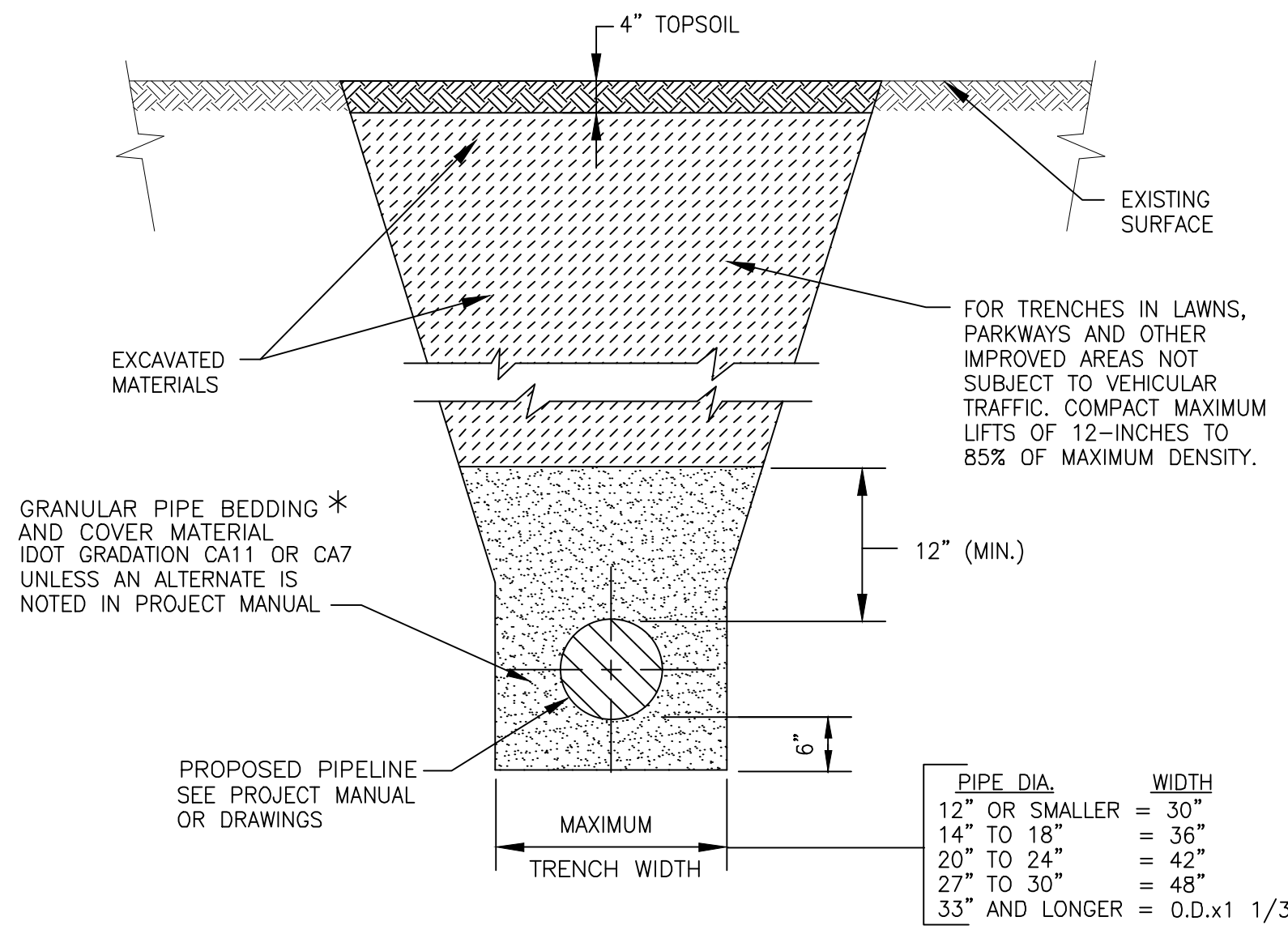
**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

DETAILS	
SCALE:	AS NOTED
PROJECT NO:	190223.40

DESIGNED -	TOTAL SHEETS	SHEET NO.
ARS	18	13
DRAWN -		
TJB/ABN		
CHECKED -		
LMS		
DATE		
- 10-23-19		

TO BID

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

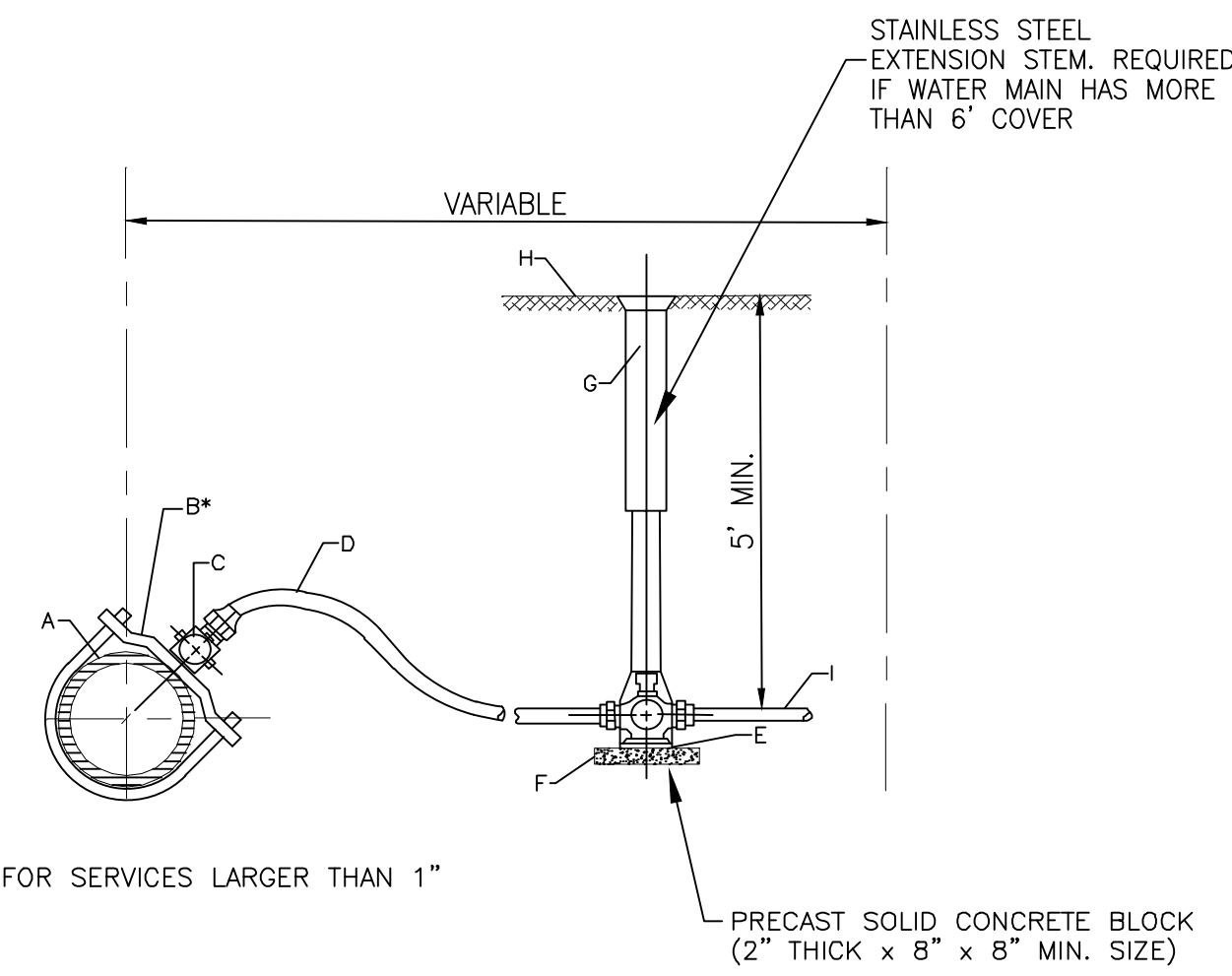
NOT TO SCALE

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"

CONSTRUCTION NOTES

- WATER MAIN
- DUCTILE IRON, EPOXY COATED BODIES WITH DOUBLE ALLOY STEEL STRAPS AND DOUBLE BOLTS (FOUR BOLTS TOTAL), MUELLER DR2A SERIES OR EQUAL
- CORPORATION STOP, A.Y. MCDONALD 74701 BQ
- SERVICE PIPE, SEAMLESS SOFT TEMPERED COPPER TYPE - TYPE "K" 1" OR LARGER
- CURB STOP, A.Y. MCDONALD 76104Q
- CONCRETE BRICK SUPPORT
- TYLER 6500 WITH BBAF VALVE BOX STABILIZER OR APPROVED EQUAL
- FINISHED GRADE
- CONNECT TO EXISTING SERVICE, PROVIDE ADAPTERS AS REQUIRED

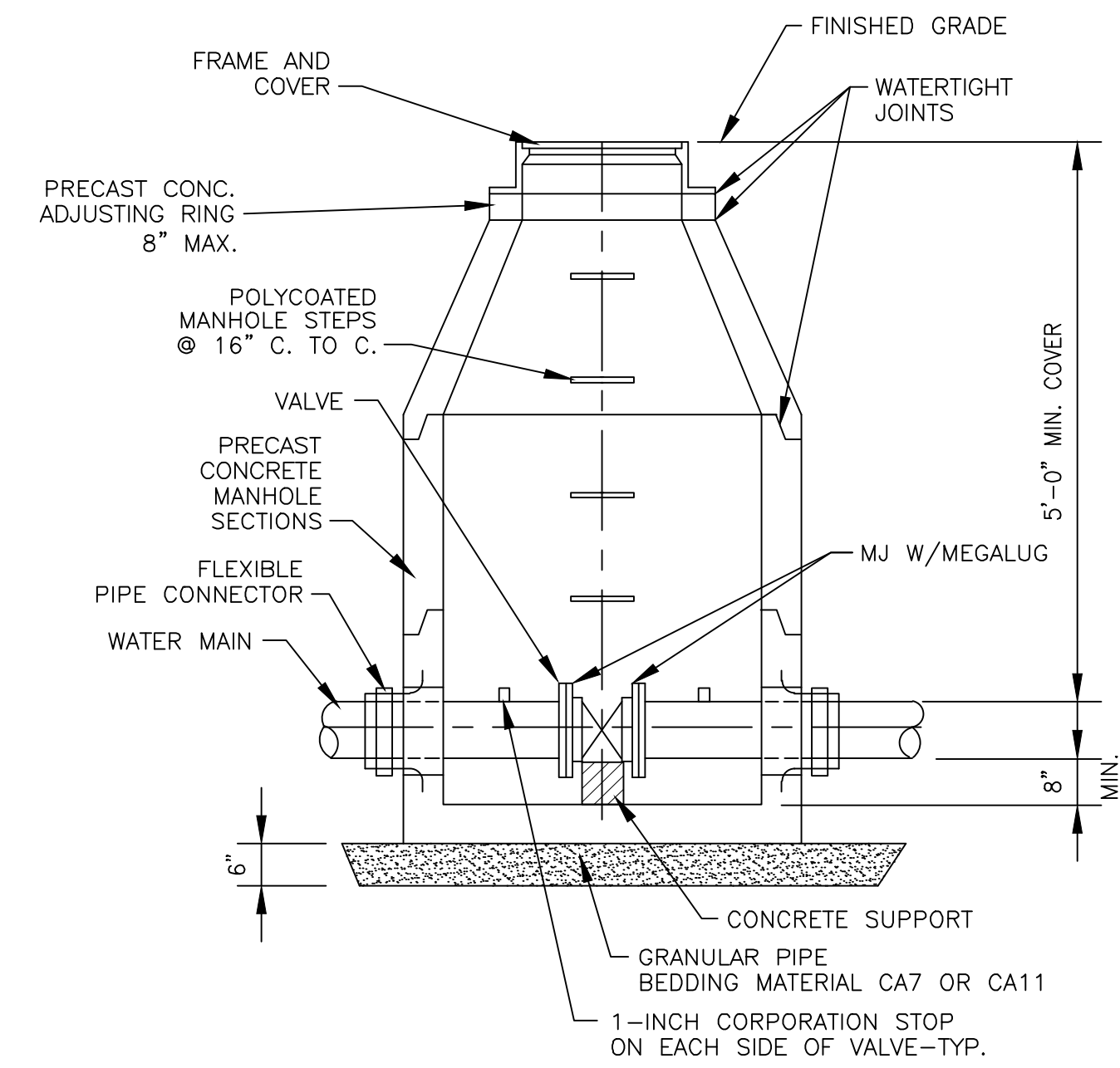
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE
CONNECTION DETAIL
WTR-06

DATE: OCT. 2017



NOTES:

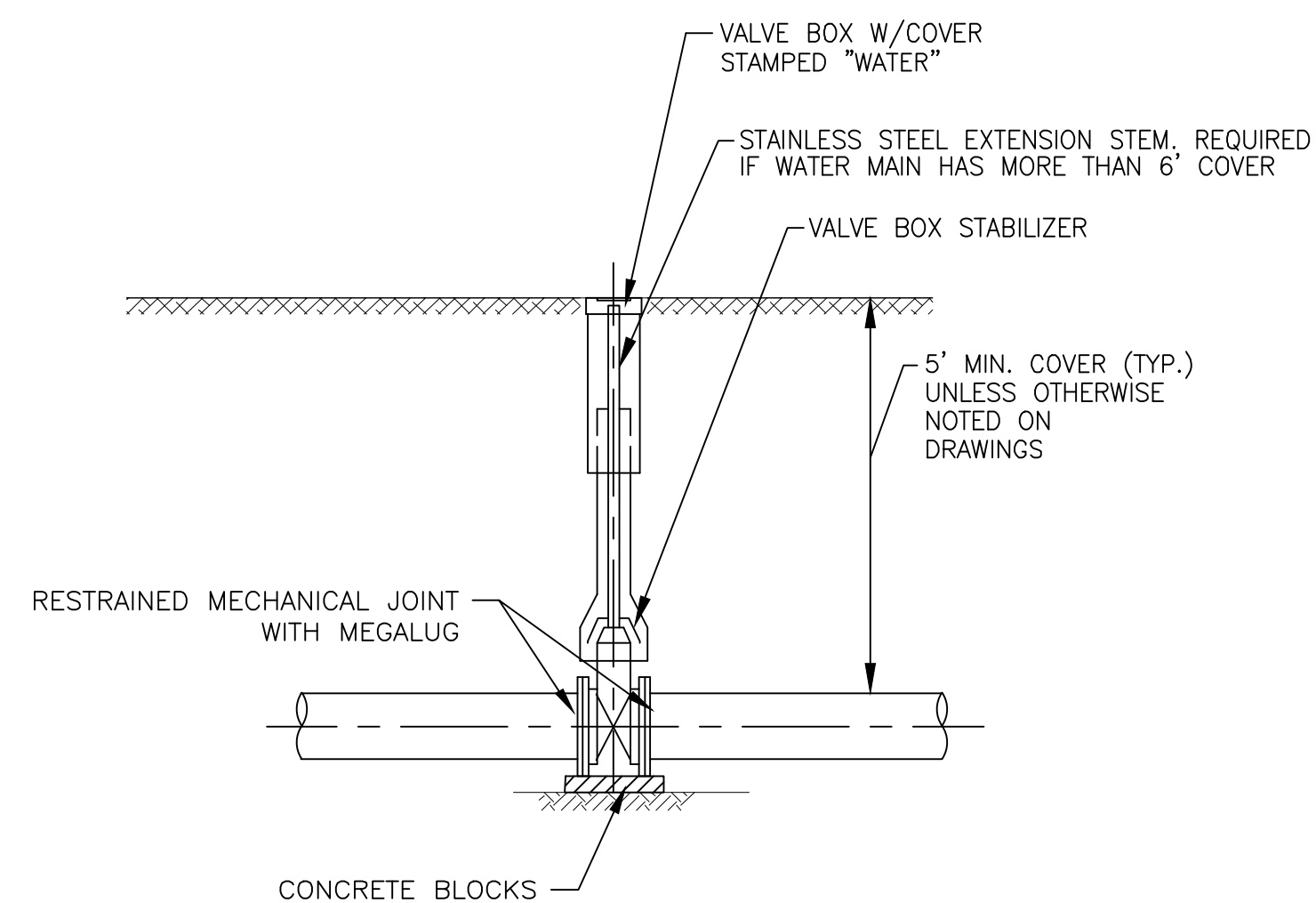
- CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
- USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
- PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VAULT
DETAIL
WTR-01

DATE: OCT. 2017

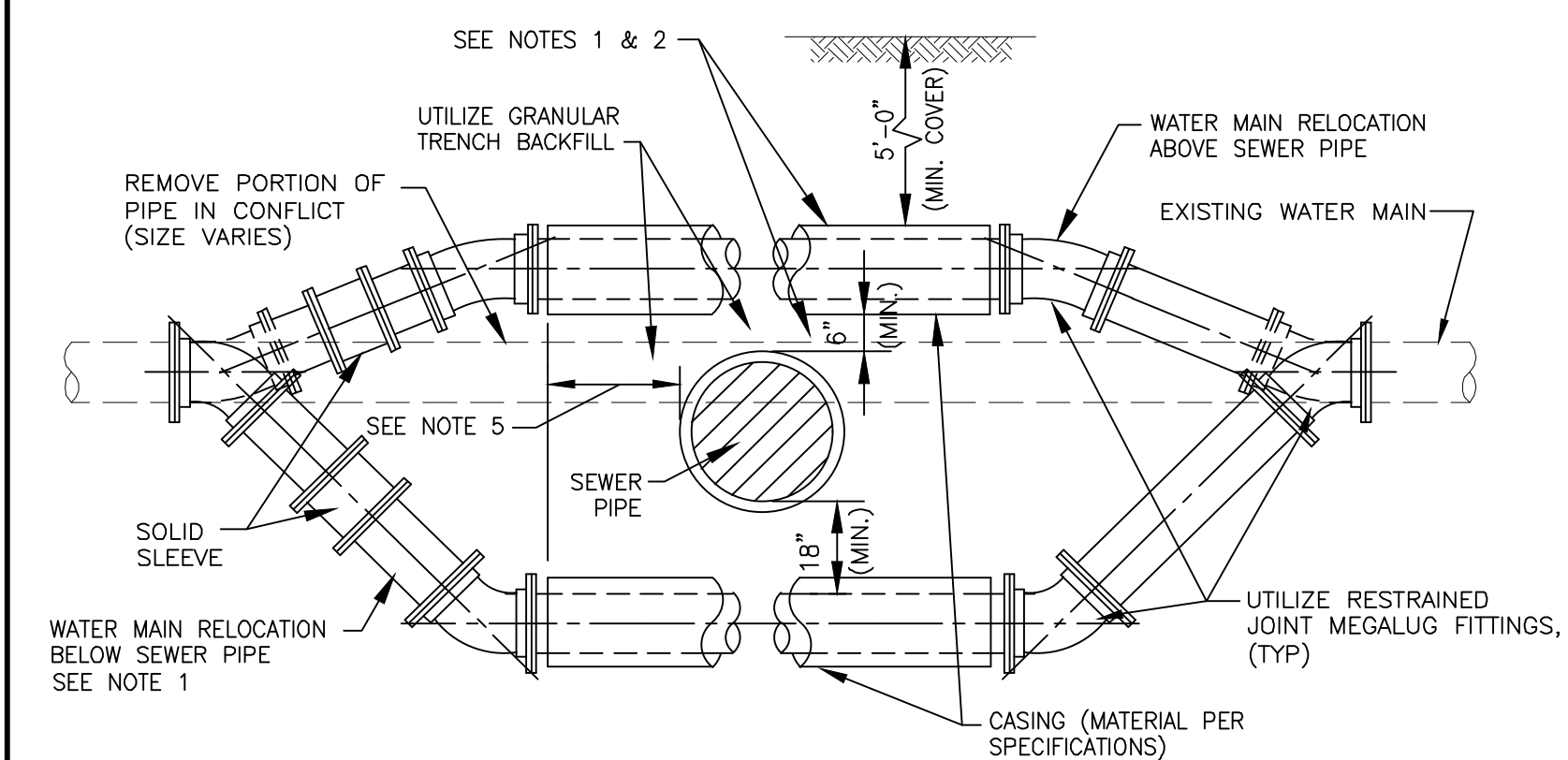


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX
DETAIL
WTR-02

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:\MOKEMA\JOLTC\190223-2020 WATER MAIN IMPR\CADD\MILLS\190223-COVER_GEN_DETIS-MILLS.DWG 14- DETAILS
 Plotted: 10/23/2019 10:04 AM By: 382ABN
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BAXTER & WOODMAN
Consulting Engineers

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

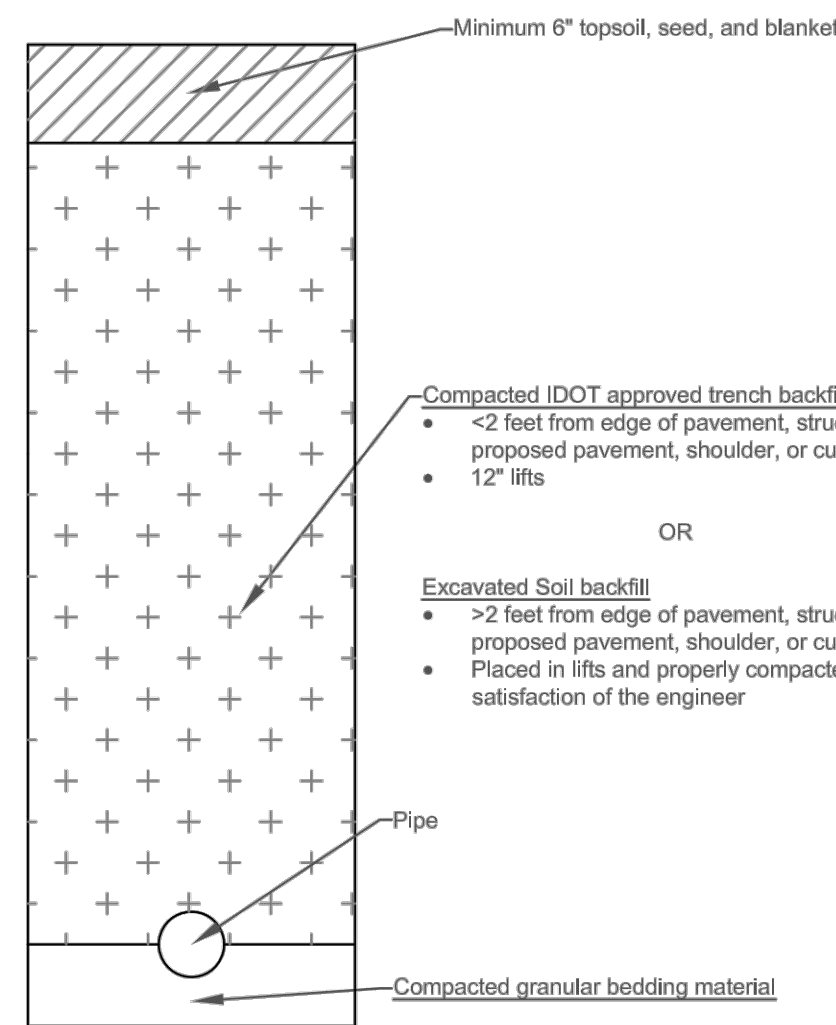
DETAILS

SCALE: AS NOTED PROJECT NO: 190223.40

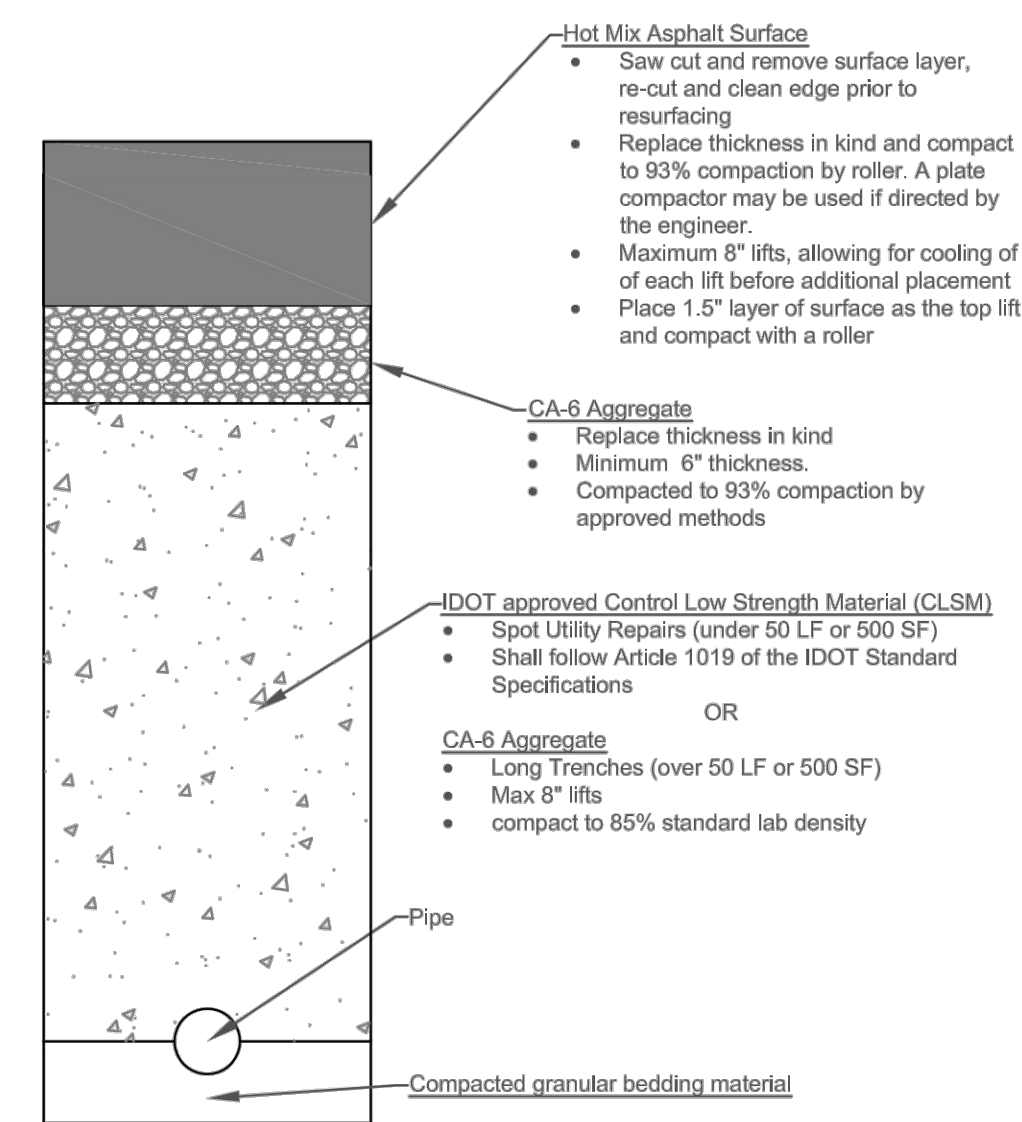
DESIGNED -	TOTAL SHEETS	SHEET NO.
ARS	18	14
DRAWN - TJB/ABN		
CHECKED - LMS		
DATE - 10-23-19		

TO BID

Non-Paved Areas



Paved Areas



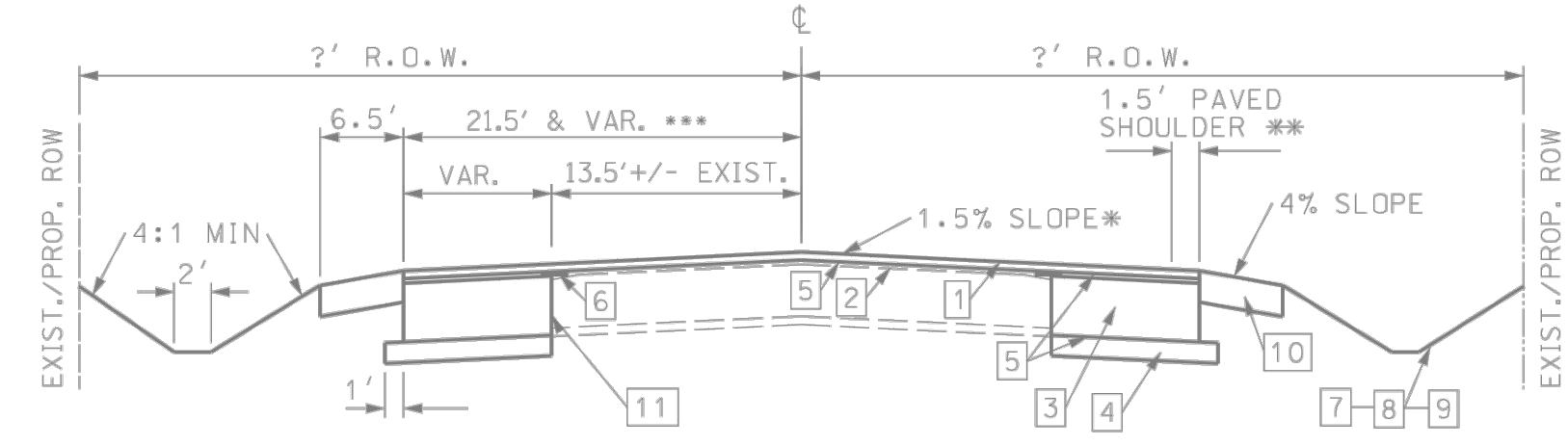
Notes:

- All work shall conform to IDOT's "Standard Specifications for Road & Bridge Construction" (latest edition) and "Supplemental Specifications and Recurring Special Provisions" (latest edition)
- Replace all raised reflective pavement markers, striping, letters, symbols, detector loops, wires, and other appurtenances in kind
- The Engineer may select the backfill requirement based on site conditions
- All out of service facilities in the ROW shall be removed

WILL COUNTY
DIVISION OF TRANSPORTATION

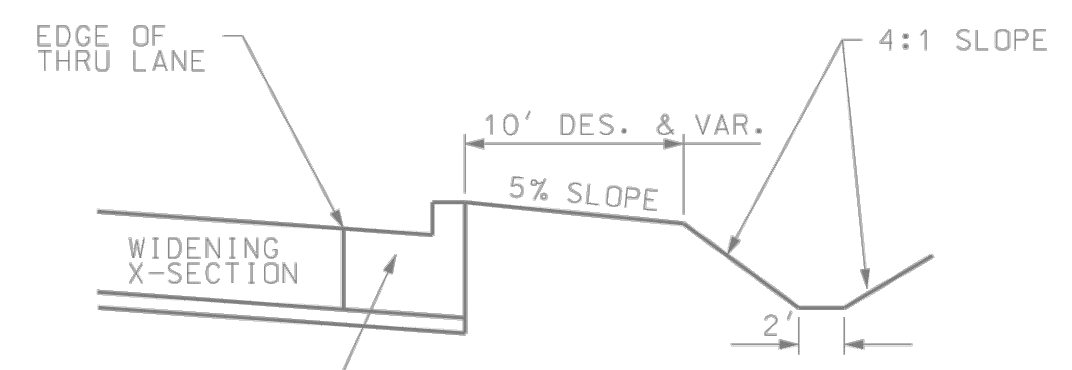
Backfill Detail for all Utilities

DATE	REVISIONS
3/21/19	



MINIMUM PROPOSED TYPICAL SECTION
NOT TO SCALE

- PAVEMENT SLOPE ON INSIDE THRU LANES AND LEFT TURN LANES SHALL BE 1.5% WHILE OUTSIDE THRU LANES AND RIGHT TURN LANES SHALL BE 2%.
 - 1.5' PAVED SHOULDER SLOPE TO MATCH ADJACENT THRU LANE SLOPE. 6.5' STONE SHOULDER SLOPE REMAINS 4%.
 - CROSS SECTION SHALL MAINTAIN 12' THRU LANES, 1.5' PAVED SHOULDER, AND 16' MEDIAN.
- HMA SURFACE COURSE, MIX D, N70 - 1.5" (USE N50 IF ADT LESS THAN 10,000) - OVER ENTIRE ROADWAY.
 - LEVELING BINDER (MACHINE METHOD), N70 - 3/4" MIN. & VAR. (USE N50 IF ADT LESS THAN 10,000) - OVER ENTIRE ROADWAY.
 - HMA BINDER COURSE, IL 19.0, N70 - 11.5" (USE N50 IF ADT LESS THAN 10,000)
 - AGGREGATE SUBGRADE, 12"
 - BITUMINOUS MATERIALS (PRIME COAT)
 - STRIP REFLECTIVE CRACK CONTROL
 - TOPSOIL - 4"
 - SEEDING CLASS 2A & FERTILIZER NUTRIENTS
 - EROSION CONTROL BLANKET
 - AGGREGATE SHOULDER, TYPE B - 8"
 - FULL DEPTH SAWCUT - 6" FROM EXIST. EDGE OF PVMT OR FULL DEPTH SHOULDER.



CURB SECTION DETAIL

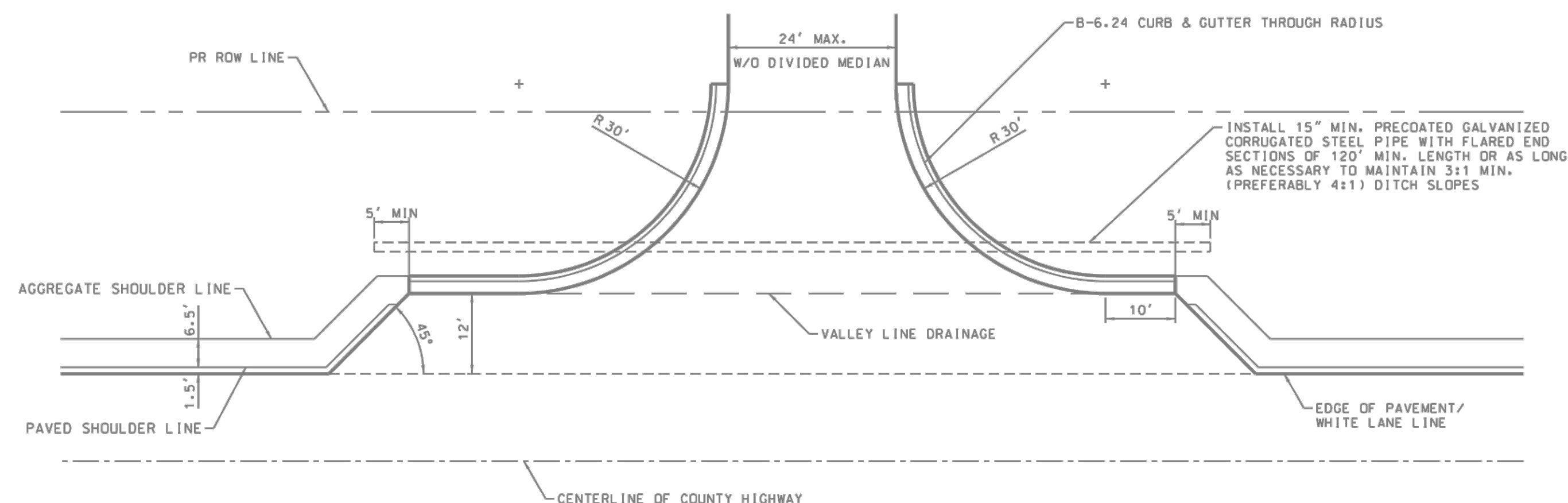


WILL COUNTY
DIVISION OF TRANSPORTATION

MINIMUM ROADWAY
TYPICAL SECTION

DATE	REVISIONS
7/7/2015	WCDOT REVISION
6/17/2011	REVISED

NOTES: ALL CONSTRUCTION TO BE DONE ACCORDING TO THE MOST RECENT VERSION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
ALL DISTURBED GROUND WITHIN THE COUNTY RIGHT OF WAY SHALL BE RE-SEED, FERTILIZED, AND EXCELISOR BLANKET INSTALLED TO THE SATISFACTION OF THE WILL COUNTY DIVISION OF TRANSPORTATION AND ACCORDING TO IEPA REQUIREMENTS.
SAWCUT EXISTING PAVEMENT AT WHITE EDGE LINE; MINIMUM 6" FROM THE EDGE OF PAVEMENT.
ALL PAVEMENT WITHIN COUNTY RIGHT OF WAY SHALL MATCH THE WCDOT MINIMUM PROPOSED TYPICAL SECTION OR PER PLAN TYPICAL SECTION.
PAVEMENT TO SLOPE AWAY FROM THE COUNTY HIGHWAY AT A RATE OF 1/4" PER FOOT (2%).
DITCHES TO BE GRADED FOR PROPER DRAINAGE. MAINTAIN 3:1 (PREFERABLY 4:1) DITCH SLOPES.
IF NECESSARY FOR DRAINAGE, INLETS SHALL BE INSTALLED INTO THE CULVERT PIPE
CURB RADI AND LANE WIDTH MAY BE INCREASED PER DESIGN VEHICLE

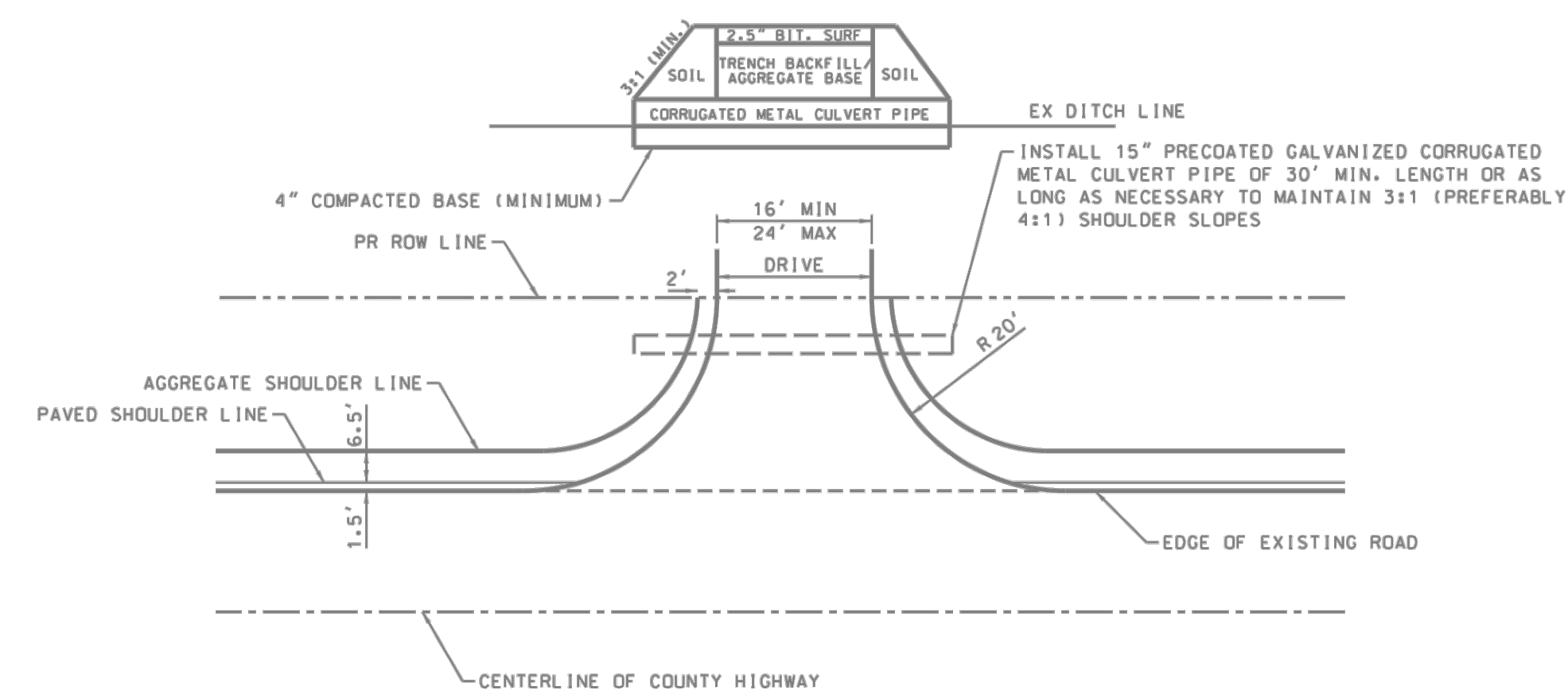


WILL COUNTY
DIVISION OF TRANSPORTATION

MAJOR ACCESS DETAIL
NO WIDENING

DATE	REVISIONS
7/7/2015	WCDOT REVISION
5/15/2009	REVISED

NOTES: ALL CONSTRUCTION TO BE DONE ACCORDING TO THE MOST RECENT VERSION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
REMOVE SHOULDER MATERIAL. INSTALL 12" AGGREGATE BASE COURSE AND PAVE WITH 2 1/2" BITUMINOUS SURFACE COURSE TO THE PROPOSED ROW LINE
SAWCUT EXISTING PAVEMENT AT WHITE EDGE LINE; MINIMUM OF 6" FROM THE EDGE OF PAVEMENT
ALL DISTURBED GROUND WITHIN THE COUNTY RIGHT OF WAY SHALL BE RE-SEED, FERTILIZED, AND EXCELISOR BLANKET INSTALLED TO THE SATISFACTION OF THE WILL COUNTY DIVISION OF TRANSPORTATION AND IEPA REQUIREMENTS
PAVEMENT TO SLOPE AWAY FROM THE COUNTY HIGHWAY AT A RATE OF 1/4" PER FOOT (2%) MINIMUM



WILL COUNTY
DIVISION OF TRANSPORTATION

MINIMUM ACCESS DETAIL
ON NON-CURBED ROAD

DATE	REVISIONS
7/2/2015	WCDOT REVISION
9/8/2006	REVISED

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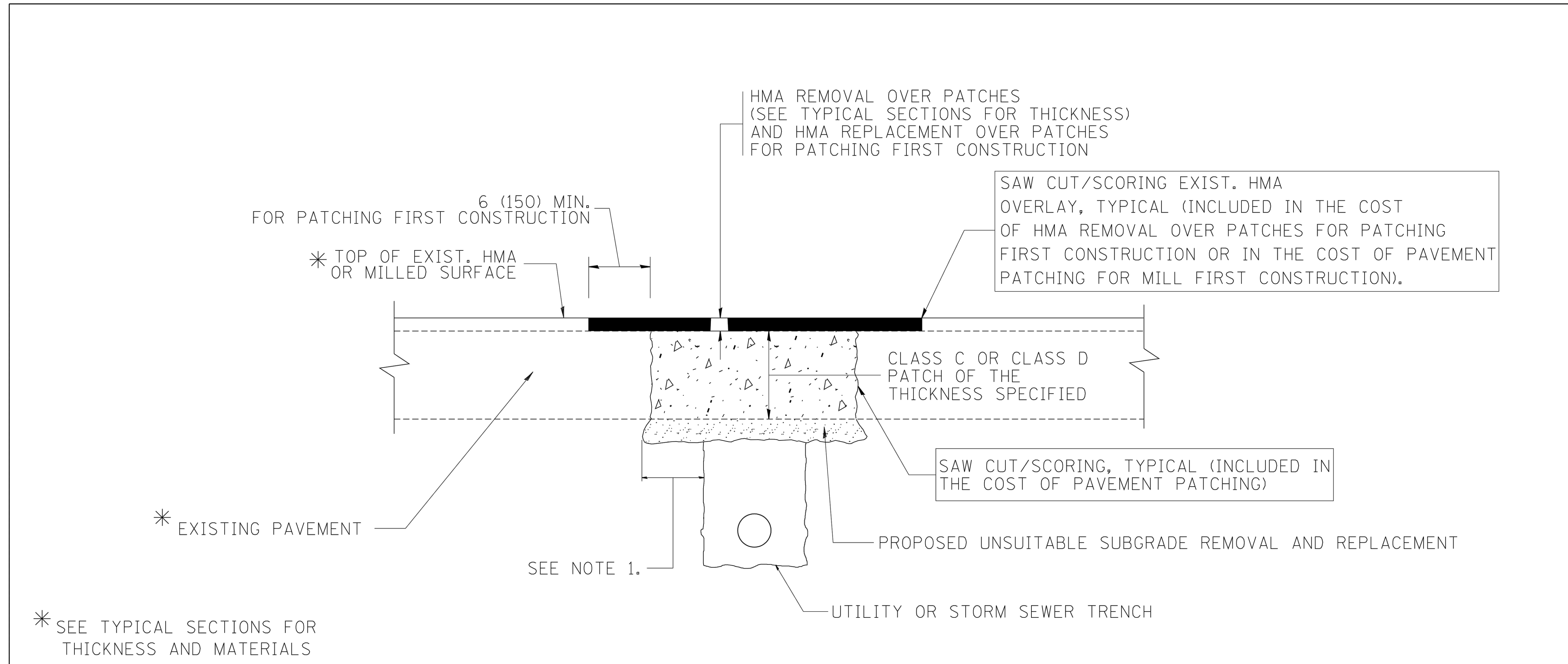
CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS

SCALE: AS NOTED PROJECT NO: 190223.40

DETAILS

DESIGNED -	TOTAL SHEETS	SHEET NO.
ARS	18	15

DATE	REVISIONS
10-23-19	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = c:\projects\dststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD400-04 (BD-22)		CONTRACT NO.	
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-25-94	REVISED - K. ENG 10-27-08									

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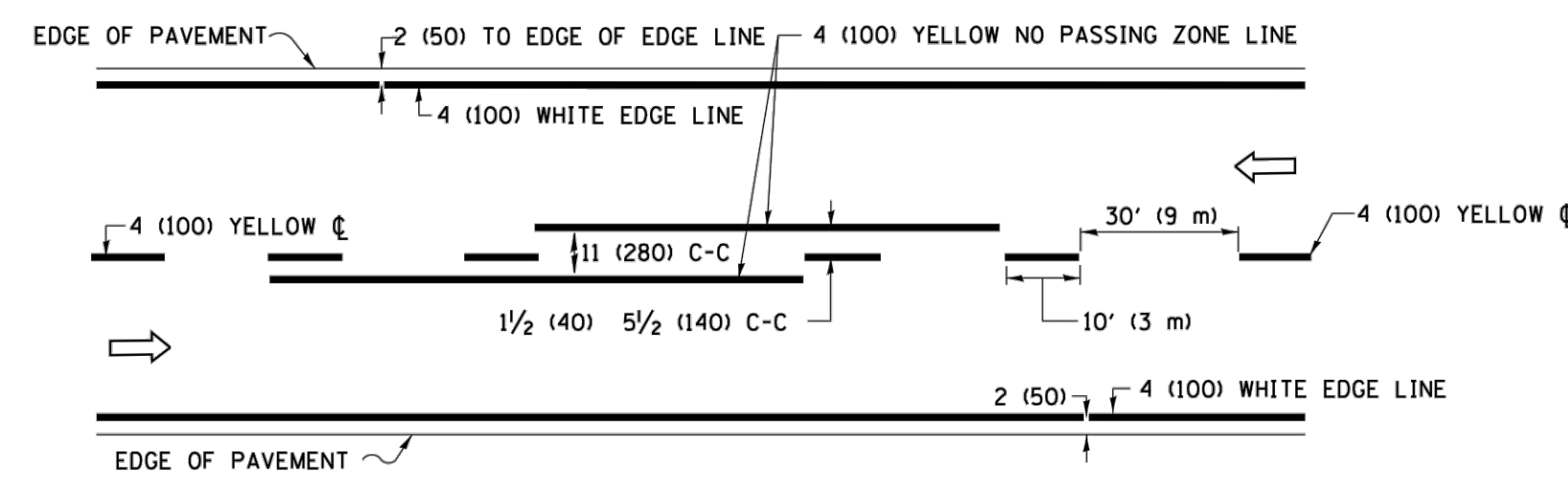
CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

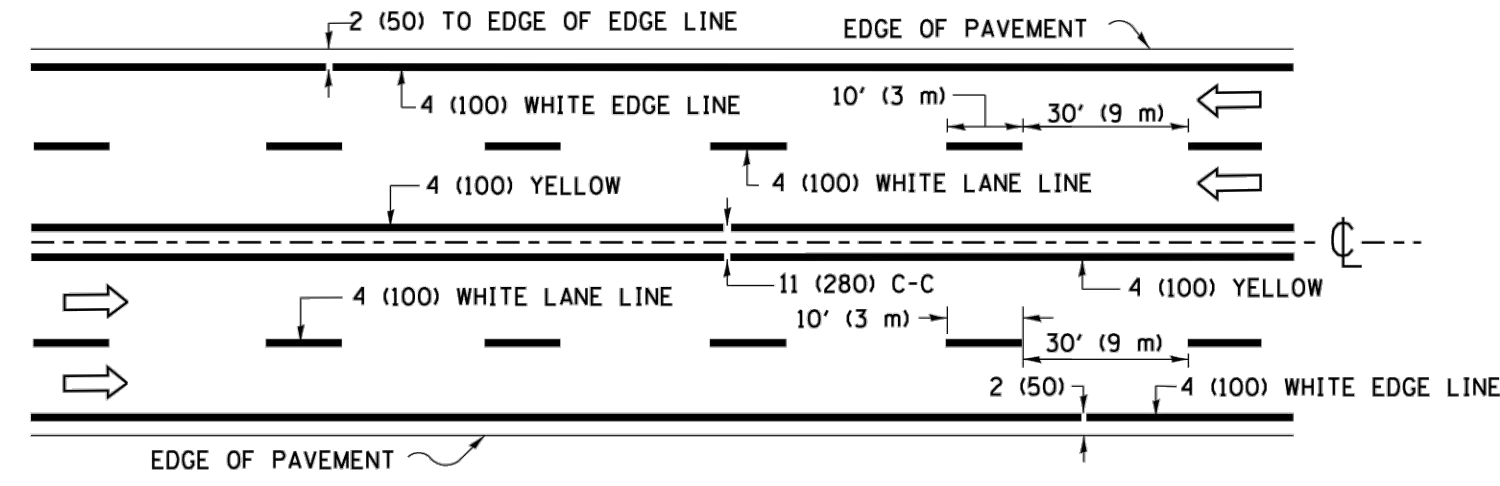
IDOT DETAILS	
SCALE: AS NOTED	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	16
CHECKED - LMS		
DATE - 10-23-19		

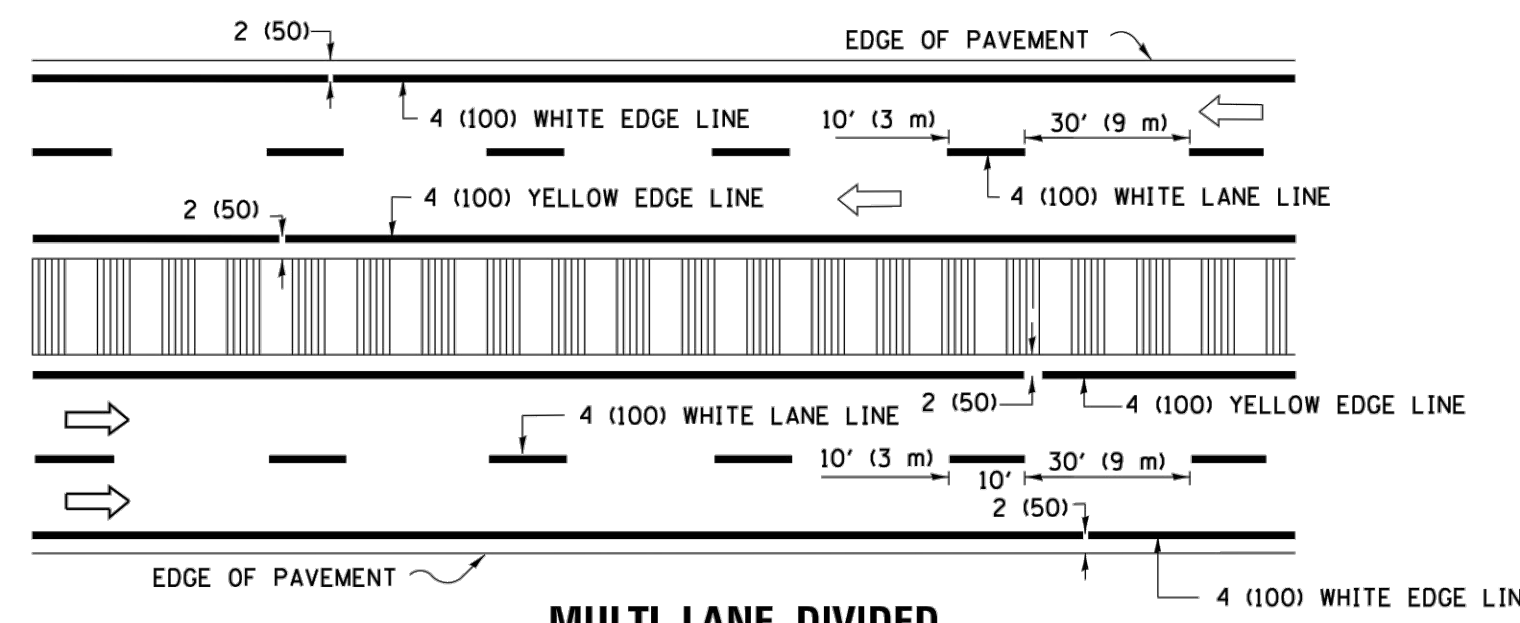
TO BID



2-LANE ROADWAY

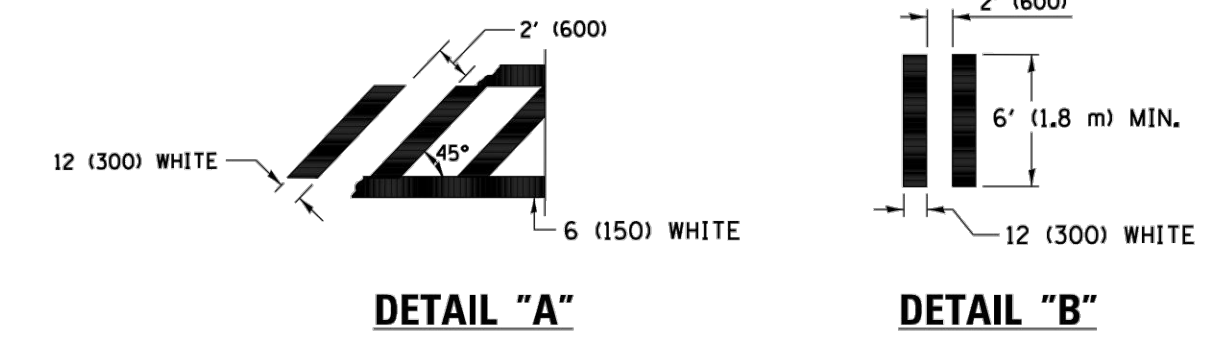
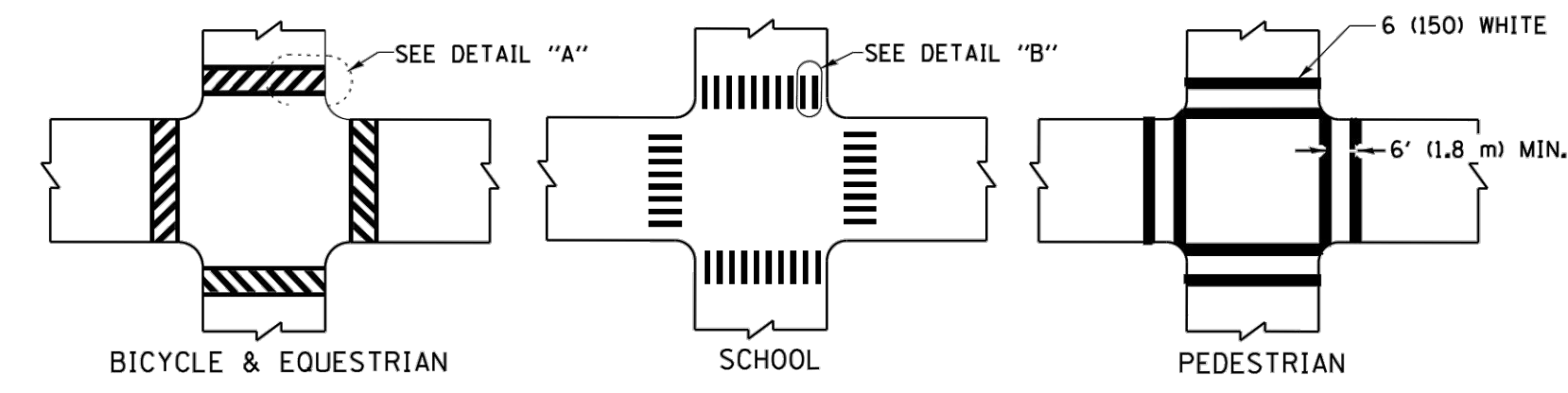


MULTI-LANE UNDIVIDED



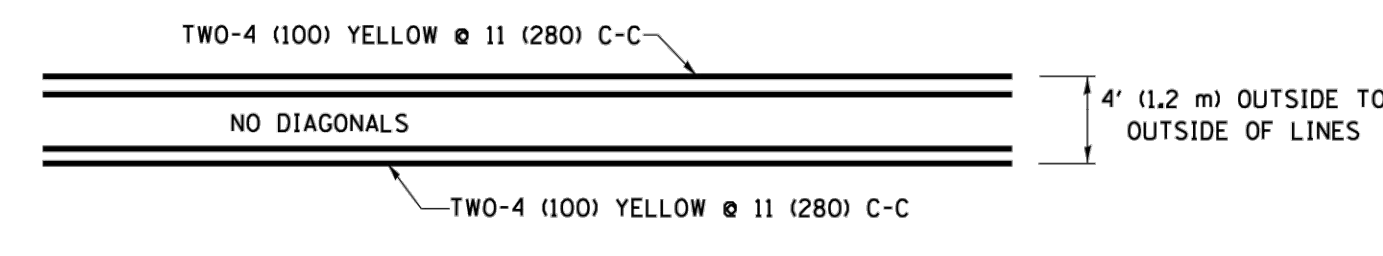
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

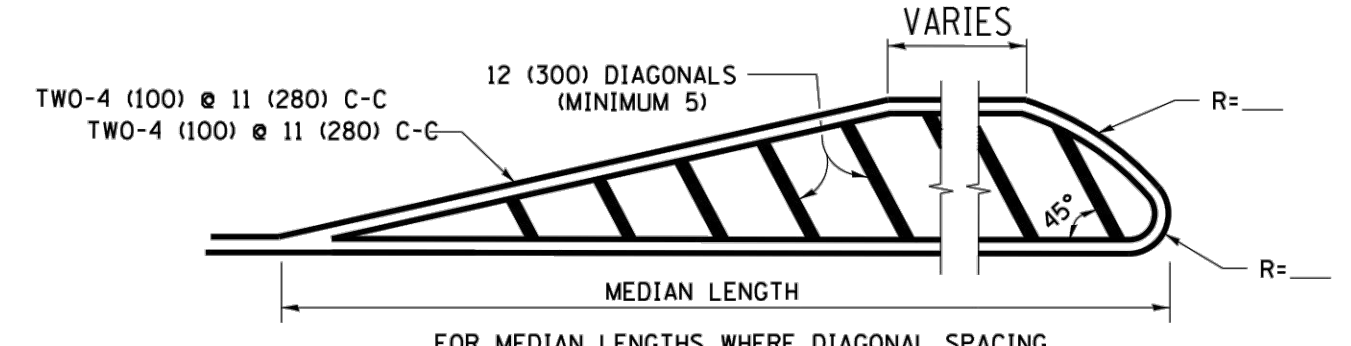


TYPICAL CROSSWALK MARKING

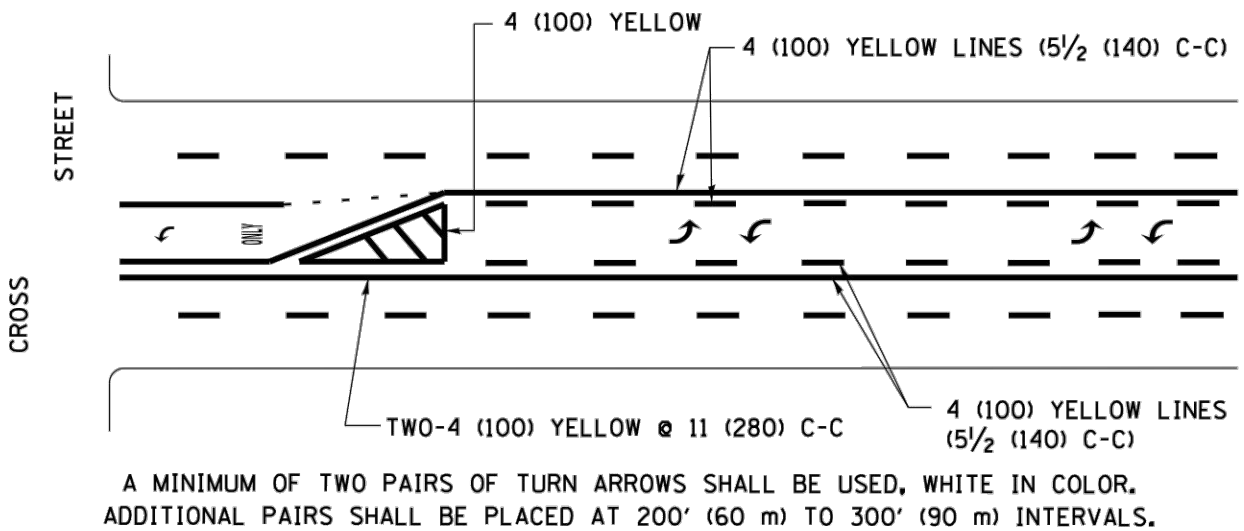
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



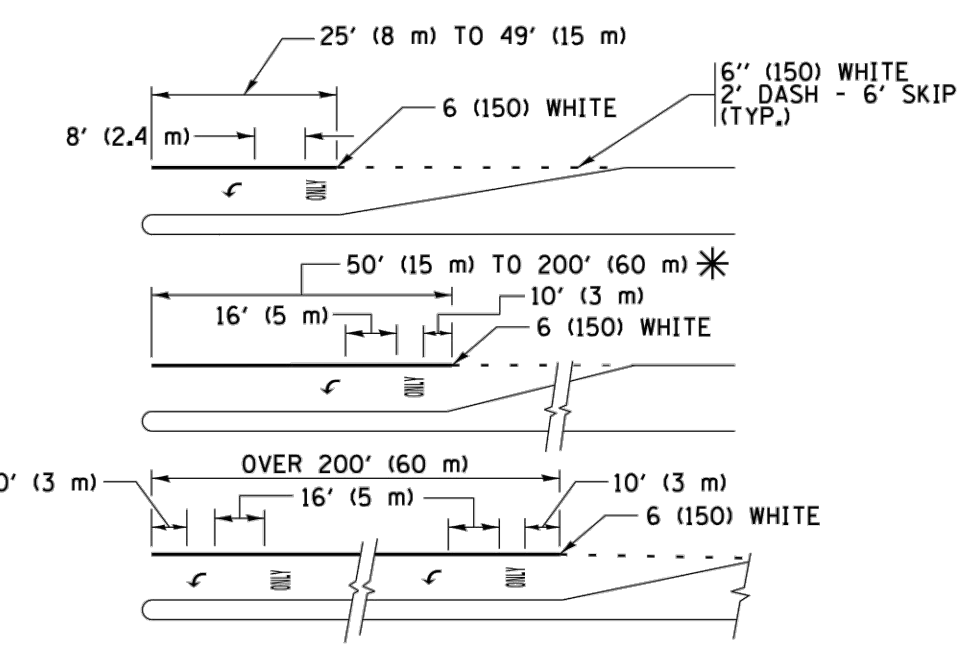
4' (1.2 m) WIDE MEDIANS ONLY



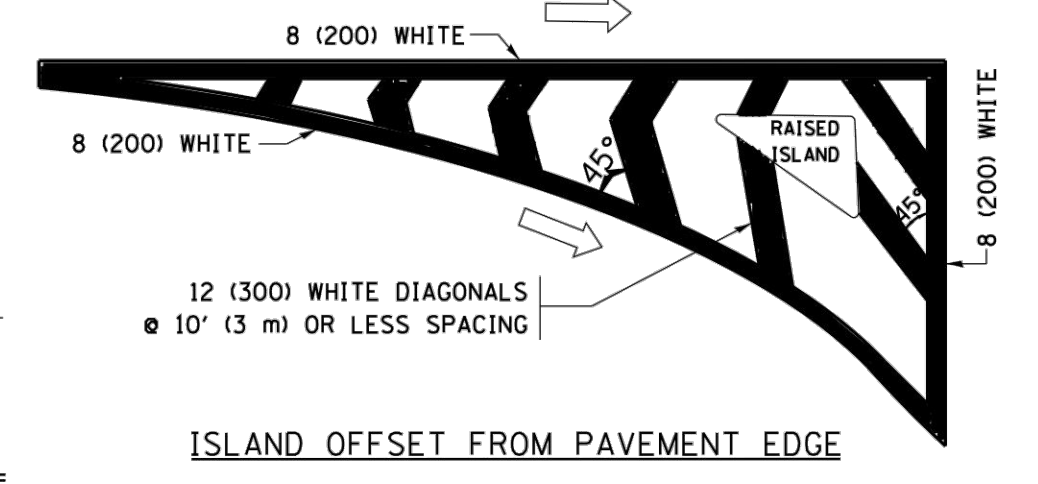
MEDIANS OVER 4' (1.2 m) WIDE



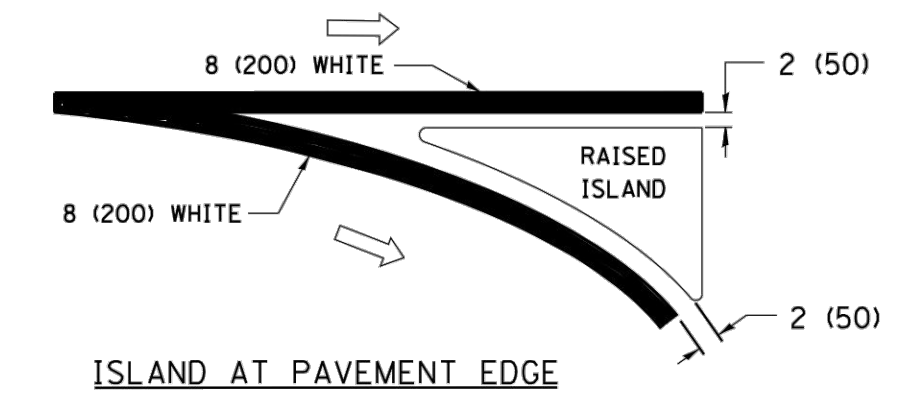
TYPICAL PAINTED MEDIAN MARKING



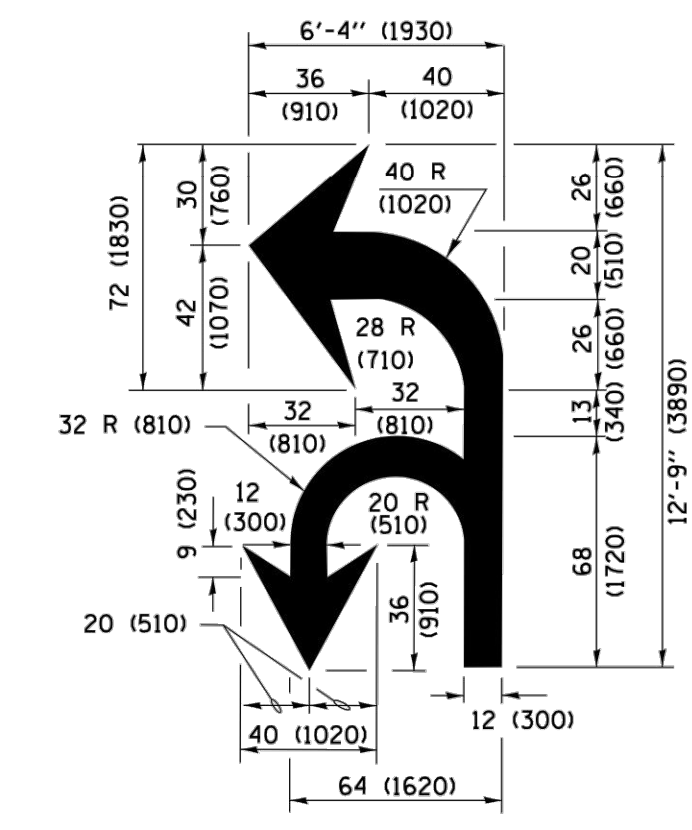
TYPICAL LEFT (OR RIGHT) TURN LANE MARKING



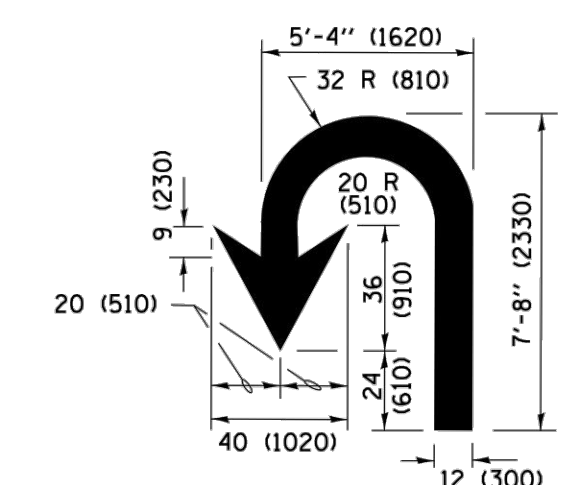
ISLAND OFFSET FROM PAVEMENT EDGE



TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° SOLID SOLID	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' 6" (4.7 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "RR" 15' 6" (4.7 m) EACH "X" 54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = W:\diststd\22x34\td13.dgn	USER NAME = lejso	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
Default	PLOT SCALE = 50,000 ' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 6/23/2017	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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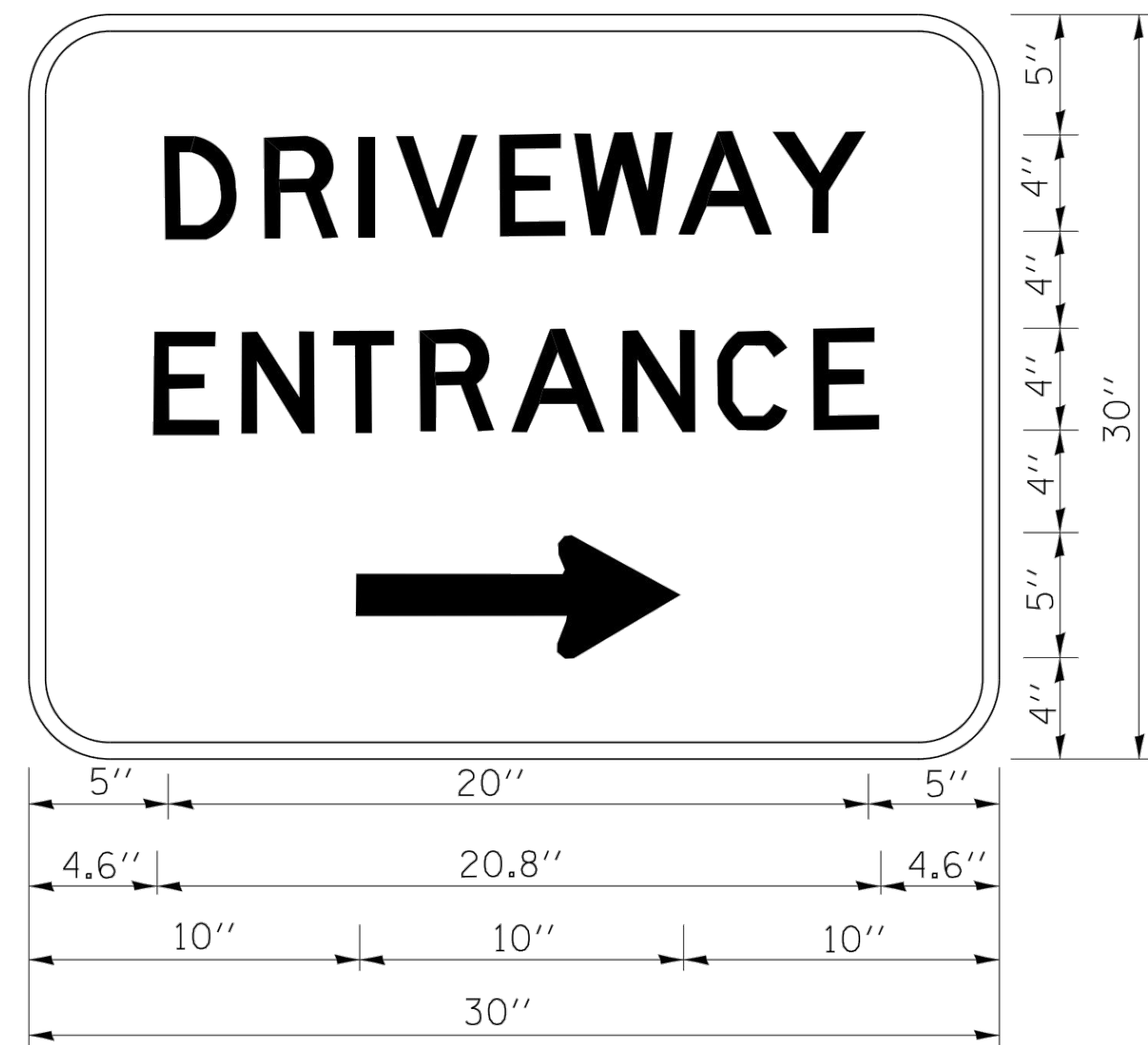
CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
MILLS ROAD WATER MAIN IMPROVEMENTS**

IDOT DETAILS	
SCALE: AS NOTED	PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	17
CHECKED - LMS		
DATE - 10-23-19		

TO BID



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = gajlonobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
es:\pwwork\pwwork\gajlonobt\08315\126.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.000 1/1 in.		CHECKED -	REVISED -
PLOT DATE = 12/13/2012		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-26			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	

TO BID

CONSULTANTS	REVISED -
	REVISED -
	REVISED -
	REVISED -

**CITY OF JOLIET, ILLINOIS
 MILLS ROAD WATER MAIN IMPROVEMENTS**

IDOT DETAILS

SCALE: AS NOTED PROJECT NO: 190223.40

DESIGNED - ARS	TOTAL SHEETS	SHEET NO.
DRAWN - TJB/ABN	18	18
CHECKED - LMS		
DATE - 10-23-19		