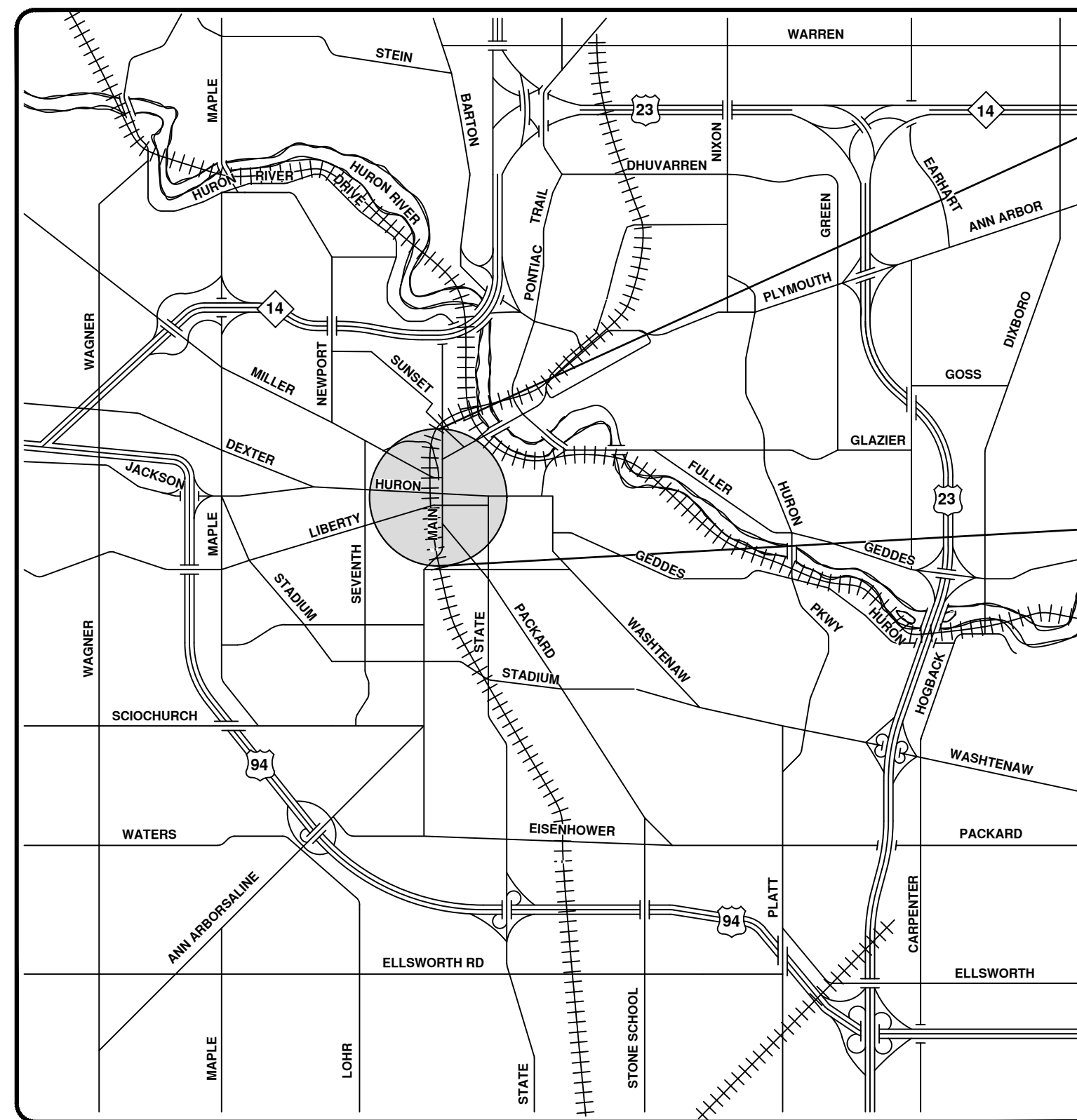
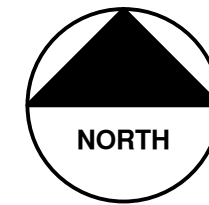




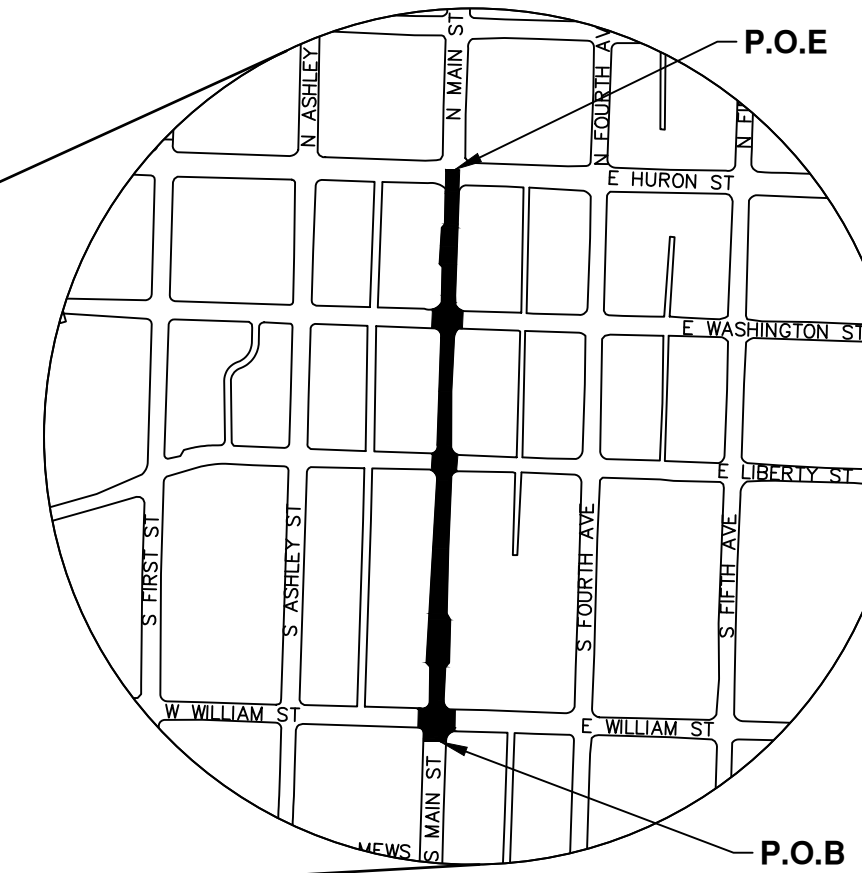
CITY OF ANN ARBOR ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

RFP No. 22-82, FILE No. 2020-038



VICINITY MAP



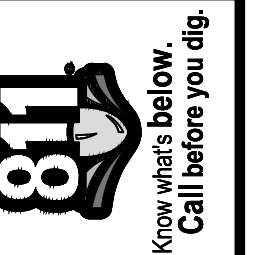
MAIN ST TRAFFIC DATA	
2022 ANNUAL DAILY TRAFFIC (ADT)	11,378
2042 ADT	12,572
COMMERCIAL	3%
2042 COMMERCIAL	3%
POSTED SPEED	25 MPH
DESIGN SPEED	30 MPH

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

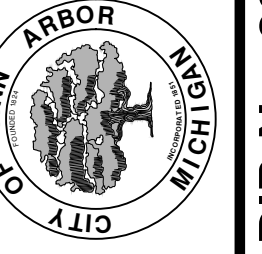
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



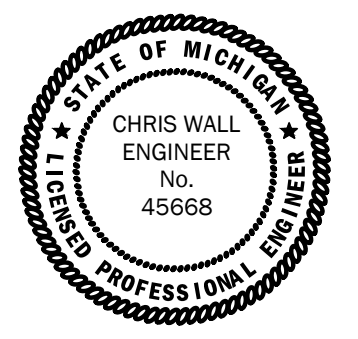
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
www.a2gov.org



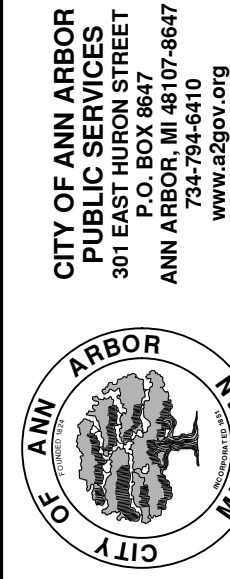
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCALE: NOT TO SCALE
DRAWING No. 2020-038-1
PROJECT DESCRIPTION AND LIMITS
SHEET No. 1 OF 80

PREPARED UNDER THE SUPERVISION OF
CHRIS WALL, P.E. - MI LICENSE No. 45668
PROJECT MANAGER
11/22/2022
ISSUED FOR BID 11/22/2022 DATE



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4	LEGEND
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6	ANN ARBOR STANDARD DETAILS 2
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9	EXISTING CONDITIONS STA 4+00 TO STA 8+00
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11	EXISTING CONDITIONS STA 11+00 TO STA 14+00
12	EXISTING CONDITIONS STA 14+00 TO STA 17+60
13	EXISTING TYPICALS
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT
 INDEX

SCALE : NTS
 DRAWING No. 2020-038-2

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GENERAL NOTES:

- DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY, AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES TO ALL PROPERTIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS FOR RESIDENTS AND BUSINESSES TO ACCESS THEIR HOMES AND BUSINESSES AT ALL TIMES. A SAFE ACCESS PATH SHALL BE IDENTIFIED ALONG WITH VEHICLE PARKING IN THE EVENT THAT CONSTRUCTION ACTIVITIES INHIBIT VEHICULAR ACCESS TO HOMES AND BUSINESSES.
- THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THIS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN GENERAL CONDITIONS, MAX \$ _____.
- DURING NON-WORKING HOURS NO MORE THAN TEN (10) FEET OF TRENCH SHALL REMAIN OPEN. ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEMS OF WORK BEING UNDERTAKEN AND WILL NOT BE PAID FOR SEPARATELY.
- TRENCHES FOR NEW WATER AND/OR SANITARY SERVICES SHALL BE EXCAVATED TO MISHA AND CITY OF ANN ARBOR PUBLIC WORKS REQUIREMENTS.
- FOR THE INSTALLATION OF CORPORATIONS, OR ANY OTHER ACTIVITIES RELATED TO THE INSTALLATION OF WATER SERVICES, WATER MAIN SHUTDOWN, OR SIMILAR WORK, THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR DELAYS DUE TO THE SCHEDULING OF, OR COORDINATION WITH, CITY OF ANN ARBOR PUBLIC WORKS.
- THE CONTRACTOR SHALL BACKFILL TRENCHES IN ACCORDANCE WITH TRENCH DETAIL(S) SPECIFIED ON PLANS. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK BEING PERFORMED.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLYETHYLENE WRAPPED PER ANSI/AWWA C105/A21.5.
- ALL FITTINGS, HYDRANTS, VALVES AND CASTINGS REMOVED DURING CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL COORDINATE PICKUP BY THE CITY OF ANN ARBOR FIELD OPERATIONS UNIT.
- FLOURPOLYMER COATED BOLTS ARE TO BE USED AT ALL MECHANICAL WATER MAIN JOINTS (HYDRANTS AND MEGALUG FITTINGS). SEE DETAILED SPECIFICATION ENTITLED "WATER MAIN AND APPURTENANCES" FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL CONSTRUCT, FLUSH, AND BACTERIOLOGICALLY TEST THE WATER MAIN PER DETAILED SPECIFICATION "WATER MAIN AND APPURTENANCES" AND AS APPROVED BY THE ENGINEER. ALL CHLORINATED WATER SHALL BE DISCHARGED DIRECTLY INTO AN APPROVED SANITARY SEWER. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY HOSES, FITTINGS AND THE LIKE TO ACCOMPLISH THIS WORK.
- WATER MAIN FITTINGS, OTHER THAN THOSE SPECIFICALLY LISTED AS SEPARATE PAY ITEMS, WHICH ARE REQUIRED TO COMPLETE THE WORK, SUCH AS BLOW-OFF ASSEMBLIES, CONCRETE THRUST BLOCKS, SOLID SLEEVES AND MECHANICAL PLUGS, SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ASSOCIATED ITEMS OF WORK.
- THE CONTRACTOR SHALL PERFORM THE CONSTRUCTION OPERATIONS SUCH THAT POSTAL DELIVERY AND REFUSE PICKUP SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- WHERE CURB AND GUTTER, CURB, PAVEMENT OR SIMILAR ITEMS BECOME UNDERMINED DUE TO THE CONTRACTOR'S OPERATIONS, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY ROAD SURFACE AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE COMPLETION OF THE PROJECT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS, MAX. _____."
- THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIAL STOCKPILES SHALL BE MAINTAINED SUCH THAT DRAINAGE AND SIGHT DISTANCES ARE NOT ADVERSELY IMPACTED. SOIL EROSION REQUIREMENTS SHALL APPLY TO ALL MATERIAL STOCKPILES.
- FOR MAINLINE PAVING, THE WIDTH OF THE MAT FOR EACH PASS OF THE PAVEMENT SHALL BE NOT LESS THAN 10.5' OR GREATER THAN 15', AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DIRECT THE LAYOUT OF THE LONGITUDINAL JOINTS DURING CONSTRUCTION.
- WHERE SEWER PIPES OF DIFFERENT SIZES OR MATERIALS ARE JOINED, FERNCO FLEXIBLE COUPLINGS WITH STAINLESS STEEL SHEAR RINGS SHALL BE USED. THE CONTRACTOR'S PURCHASE PRICE FOR THESE DEVICES, INCLUDING SHIPPING, SHALL BE PAID AS AN EXTRA PRIOR TO PAYMENT FOR THIS ITEM. THE CONTRACTOR SHALL SUBMIT RECEIPTS FOR THE ENGINEER'S REVIEW AND APPROVAL. ALL OTHER COSTS ASSOCIATED WITH THE INSTALLATION OF THESE DEVICES SHALL BE INCLUDED IN THE PAYMENT FOR THE SEWER.
- WHERE SEWER AND WATER MAIN ARE TO BE REMOVED & REPLACED OR ADDED, ALL PIPE SHALL BE INSTALLED USING TRENCH DETAIL DETAILED IN THE SPECIFICATIONS OR SHOWN ON PLANS. BACKFILL FOR SEWER AND WATER CONSTRUCTION SHALL BE MDOT GRANULAR MATERIAL, CLASS II.
- SOME STORM SEWER MAY UNAVOIDABLY BECOME DAMAGED DURING CONSTRUCTION OR IT MAY BE DETERMINED BY THE ENGINEER THAT EXISTING STORM SEWER NEEDS TO BE REPLACED. IN EITHER CASE, THE ENGINEER MAY DIRECT THE SEWER TO BE REMOVED AND REPLACED. THE REMOVAL OF THE EXISTING SEWER AND/OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE CONTRACT WORK ITEMS "SEWER, ANY SIZE OR DEPTH, REM" OR "DR STRUCTURE, ANY SIZE OR DEPTH, REM", AND THE REPLACEMENT SEWER SHALL BE INSTALLED AND PAID FOR AT THE CORRESPONDING CONTRACT UNIT PRICE, IF CONTAINED WITHIN THE CONTRACT, FOR THE VARIOUS TYPES AND SIZES OF SEWER TO BE REPLACED.
- WHERE EXISTING SEWER AND/OR DRAINAGE STRUCTURES ARE TO BE REMOVED, THEY SHALL BE PROPERLY DISPOSED OF OFF-SITE AND THE EXCAVATION SHALL BE BACKFILLED WITH MDOT CLASS II GRANULAR MATERIAL, COMPACTED TO 95% OF ITS MAX. DRY DENSITY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT ITEMS "SEWER, ANY SIZE OR DEPTH, REM" AND/OR "DR STRUCTURE, ANY SIZE OR DEPTH, REM".
- IF THE CONTRACTOR ENCOUNTERS EXISTING EDGE DRAIN(S) DURING CONSTRUCTION OF THE PROPOSED EDGE DRAINS, INLET LEADS, OR CATCH BASINS, IT SHALL BE CAPPED AT EACH END TO PREVENT MATERIAL FROM ENTERING THE PIPE. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PARTICULAR ITEM OF WORK BEING PERFORMED WHEN EXISTING EDGE DRAIN(S) ARE ENCOUNTERED.
- EXISTING STREET NAME, GUIDE AND REGULATORY SIGNS, AND MAILBOXES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN "GENERAL CONDITIONS, MAX. _____".
- ALL STRUCTURES SHALL RECEIVE NEW CASTINGS, EITHER TYPE B, TYPE K, TYPE Q, OR TYPE R AS SPECIFIED ON THE STANDARD CASTING SCHEDULE. THE EXISTING CASTINGS SHALL BE NEATLY STACKED ON-SITE IN A SINGLE LOCATION SO THAT THE CITY OF ANN ARBOR FORCES CAN RETRIEVE THEM AT A LATER DATE. THE CONTRACTOR SHALL ASSIST CITY FORCES BY LOADING THEM INTO CITY TRUCKS. ALL COSTS ASSOCIATED WITH STORING, STOCKPILING AND LOADING CASTINGS SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS, MAX. _____" AND WILL NOT BE PAID FOR SEPARATELY.
- ALL EXCAVATION REQUIRED FOR PROJECT GRADING WITHIN THE PROJECT LIMITS, INCLUDING PROPOSED PAVEMENT, DRIVE APPROACHES, SIDEWALK, AND SIDEWALK RAMPS SHALL BE INCLUDED IN "MACHINE GRADING, MODIFIED."
- ALL CURB, SIDEWALK, AND DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY THE ENGINEER BEFORE THE WORK IS PERFORMED. ALL CONCRETE AND BITUMINOUS MATERIALS SHALL BE SAW-CUT FULL-DEPTH AT THEIR REMOVAL LIMITS PRIOR TO REMOVAL. SAW-CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MACHINE GRADING, MODIFIED."

WATER MAIN CONSTRUCTION NOTES

- SEE EROSION CONTROL SHEETS FOR DETAILS ON PLACEMENT, MAINTENANCE, AND REMOVAL OF EROSION CONTROL ITEMS.
- THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DAMAGE OR INJURY DURING CONSTRUCTION OPERATIONS ALL UTILITIES, SITE FEATURES, LANDSCAPING, AND OTHER ITEMS NOT DESIGNATED FOR REMOVAL OR ABANDONMENT. PAYMENT FOR PROTECTION OF UTILITIES INCLUDED IN "GENERAL CONDITIONS, MAX". EXISTING FACILITIES NOT DESIGNATED FOR REMOVAL OR ABANDONMENT, BUT WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AS DETERMINED BY THE ENGINEER.
- THE EXISTING UTILITIES SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED THROUGH SURVEYS AND/OR EXISTING PLANS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. IF STORM OR WATERMANS CROSS OTHER UTILITIES, CONTACT THEIR RESPECTIVE OWNERS FOR INFORMATION ON HOW TO PROCEED. PAYMENT FOR THE COORDINATION EFFORTS AND ASSOCIATED ITEMS SHALL BE INCLUDED IN ASSOCIATED PROPOSED STORM OR WATERMAIN ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DAMAGE OR INJURY THE EXISTING WATER MAIN DURING CONSTRUCTION OPERATIONS. ANY DAMAGE TO THIS FACILITY BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE, AS DETERMINED BY THE ENGINEER. PAYMENT FOR PROTECTION OF THE EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS, MAX".
- THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE EXISTING SANITARY SEWER OR WATER MAIN LEADS FOR EASE OF CONSTRUCTING OTHER ASPECTS OF WORK. THE CONTRACTOR SHALL CAREFULLY PROTECT ALL LEADS FROM DAMAGE OR INJURY.
- THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH CURRENT PUBLIC SERVICE DEPARTMENT STANDARD SPECIFICATIONS AND DETAILS.
- ALL WATER MAIN SHALL BE PRESSURE CLASS 350 THICKNESS CLASS 50 DUCTILE IRON WATER MAIN, CEMENT-LINED (DOUBLE THICKNESS), WITH POLYWRAP UNLESS NOTED OTHERWISE.
- RESTRAINED JOINT SYSTEMS FOR WATER MAIN SHALL BE UTILIZED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. RESTRAINED JOINT GASKET SYSTEMS ARE TO BE USED. (FIELD-LOK 350 BY U.S. PIPE, FAST-GRIP BY AMERICAN DUCTILE IRON PIPE, OR APPROVED EQUAL)
- ALL WATER MAIN TO HAVE 5.5 FEET OF COVER. MAINTAIN A MINIMUM OF 18-INCH VERTICAL CLEARANCE FOR STORM AND SANITARY CROSSINGS AND A MINIMUM OF 12-INCH VERTICAL CLEARANCE WITH ALL OTHER UTILITIES.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL UTILIZE STANDARD PIPE DEFLECTIONS FOR FOLLOWING THE PROPOSED ALIGNMENT.
- NEW FIRE HYDRANTS SHALL BE EJIW 5BR-250 WITH 5-INCH STORZ CONNECTION, 1-3/8-INCH PENTAGON OPERATING NUT, 3-3/8-INCH AA PUMPER CONNECTION, PUSH-ON JOINT WITH NO BARREL DRAIN. .
- FIRE HYDRANT ASSEMBLIES SHALL INCLUDE ALL NECESSARY HYDRANT EXTENSIONS, THRUST BLOCKS, PIPE AND FITTINGS, INCLUDING ADJUSTMENT OF THE COMPANION VALVE. FIRE HYDRANT ASSEMBLY INCLUDES 6-INCH COMPANION VALVE LOCATED THREE FEET FROM THE HYDRANT.
- ALL WATER MAIN TRENCH BACKFILL SHALL BE MDOT CLASS II GRANULAR MATERIAL (SEE UTILITY TRENCH TYPE I DETAIL)
- CONNECTIONS TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE NEW MAIN HAS BEEN SUCCESSFULLY TESTED AND HAS PASSED ALL HYDROSTATIC AND BACTERIOLOGICAL TESTING. FINAL CONNECTIONS SHALL BE COORDINATED WITH THE ENGINEER.
- THE CONTRACTOR SHALL PERFORM ALL WATER SYSTEM SHUT DOWNS AFTER APPROPRIATE NOTIFICATION TO THOSE AFFECTED AND APPROVAL HAS BEEN GRANTED BY THE ENGINEER.
- WATER SERVICES SHOWN REPRESENT THE BEST INFORMATION AVAILABLE BASED ON RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY IN LOCATING, VERIFYING AND RECONNECTING ALL EXISTING ACTIVE SERVICES.
- ALL LINE STOP LOCATIONS SHALL BE DETERMINED BY THE CITY ENGINEER AS NEEDED. THIS ITEM OF WORK SHALL BE PAID FOR AS "LINE STOP, DUCTILE/CAST IRON PIPE, --INCH."

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

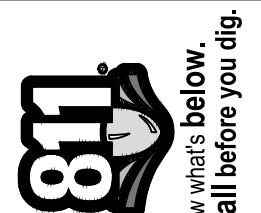
PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
EGLE PART 41 WASTEWATER CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY
EGLE PART 399 WATER SUPPLY SYSTEMS PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER (DAN WOODEN)	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY (TRAVIS CONLEY)		
STORM (KEVIN SCHNEIDER)		
FORESTRY (MATT WALDSMITH)		
SIGNS SIGNALS STREET LIGHTS (MARC MORENO)		(734) 794-6361
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	DARRYL ELLINGTON (313) 995-6078 ZACH WHITE (313) 405-6024
GAS	CONSUMERS ENERGY 1000 GRAND OAKS DR. HOWELL, MI 48843	BOB MCLACHLAN (517) 242-7878
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	MIKE JAREMA (734) 277-7855 TOYA TROUPE (734) 996-2167
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINDBEN ROAD, SUITE B FLINT, MI	GREG SERICH (810) 244-3500
FIBER OPTIC	LUMEN 19675 W 10 MILE ROAD SOUTHFIELD, MI 48075	DAVE HUCKFELDT (517) 812-2592
FIBER OPTIC	FIBERLINK, INC PO BOX 701 LAPEER, MI 48446	TINA SNOBLEN (810) 667-2891 EXT 307
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188
UNIVERSITY OF MICHIGAN UTILITIES	UNIVERSITY OF MICHIGAN 1201 KIPKE DRIVE, ROOM 1080 ANN ARBOR, MI 48109	TERRY RAMSEY (734) 647-2031

PROJECT NAME BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	841.580	NORTHWEST BOLT OF LIGHT POLE BASE AT S MAIN AND WILLIAM
2	840.110	PAINTED BOX ON CROSSWALK BASE SOUTHWEST CORNER S MAIN AND LIBERTY
3	838.210	PAINTED BOX ON CROSSWALK BASE NORTHWEST CORNER S MAIN AND WASHINGTON
4	837.190	"X" ON NORTHWEST BOLT, LIGHT POLE BASE, SOUTHEAST CORNER S MAIN AND HURON



Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

NOTES

SCALE: NTS

DRAWING NO. 2020-038-3

SHEET NO. 3 OF 80

EXISTING LEGEND

	FIRE HYDRANT		WATER MAIN
	GATE VALVE IN BOX		WATER MAIN ABANDONED
	GATE VALVE IN WELL		STORM SEWER
	STOP BOX		STORM SEWER ABANDONED
	WATER VAULT		SANITARY SEWER
	WELL		SANITARY SEWER ABANDONED
	FIRE DEPT. CONNECTION (FDC)		GAS MAIN
	CATCH BASIN (SQ)		GAS MAIN (DEAD)
	CATCH BASIN (RD)		ELECTRICAL OVER HEAD
	STORM MANHOLE		ELECTRICAL UNDER GROUND
	NON-CURB CATCH BASIN (SQ)		ELECTRICAL DUCT BANK
	END SECTION		ELECTRICAL OVER HEAD
	SANITARY MANHOLE		TELEPHONE OVER HEAD
	CLEAN-OUT		TELEPHONE UNDER GROUND
	POST		TELEPHONE DUCT BANK
	PEDESTRIAN SIGNAL		CABLE TV OVER HEAD
	SIGN		CABLE TV UNDER GROUND
	HAND HOLE		FIBER OPTIC
	ORNAMENTAL LIGHT		FIBER OPTIC DUCT BANK
	FLOOD LIGHT		BOUNDARY
	UNKNOWN MANHOLE		BUILDING
	TELEPHONE MANHOLE		CENTERLINE OF DITCH
	TELEPHONE RISER		CENTERLINE/CROWN OF ROAD
	GAS VALVE		CENTERLINE RAILWAY
	GAS VENT		CONTOUR MAJOR
	GAS BOX		CONTOUR MINOR
	ELECTRICAL RISER		EDGE OF WATER
	TRANSFORMER		FLOODPLAIN
	UTILITY POLE		FENCE
	LAMP POLE		GRAVEL
	GUY ANCHOR		GUARDRAIL
	GUY POLE		STONE WALL
	MONITORING WELL		R.O.W.
	MAILBOX		TREELINE
	PARKING METER		WETLAND
	PARKING PAY STATION		EDGE OF BRUSH
	TRASH CAN		HEDGE
	BIKE RACK		TREE (DECIDUOUS)
	SOIL BORING (GIS)		TREE (CONIFEROUS)
	SOIL BORING (PROJECT)		SHRUB (DECIDUOUS)
	TRAVERSE POINT		STUMP
	BENCH MARK		TREE TO REMAIN & PROTECT (DECIDUOUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10
	IRON PIPE		TREE TO REMAIN & PROTECT (CONIFEROUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREST HEIGHT (INCHES) X 10
	MAN BOX		
	TRAFFIC CONTROL PUCK		

	EXISTING BUILDING VAULTS
	EXISTING TROLLEY TRACK FOUNDATION AREA
	EXISTING BRICK PAVER AREA
	EXISTING BRICK PAVER AREA PARKING AREA
	EXISTING BRICK PAVER AREA (BASKET WEAVE)

REMOVAL LEGEND

	CURB AND GUTTER, ANY TYPE OR SIZE, REM
	UTILITY REMOVAL OR ABANDON
	PAVEMENT REMOVE
	PAVEMENT REMOVE SPECIAL
	SIDEWALK REMOVE

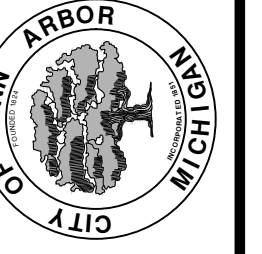
PROPOSED LEGEND

	HYDRANT (PLAN)		WATER MAIN
	WATER GATE WELL		STORM SEWER
	REDUCER		SANITARY SEWER
	WATER GATE VALVE		FIBER OPTIC
	WATER STOP BOX		ELECTRICAL
	WATER VAULT		CENTERLINE OF DITCH
	INLET		CENTERLINE OF ROAD
	DOUBLE INLET		FENCE
	INLET JUNCTION CHAMBER		GRAVEL
	ROUND CATCH BASIN		SILT FENCE
	STORM MANHOLE		PROTECTIVE FENCE
	DRAIN ARROW		GUARDRAIL
	FLARED END SECTION		LOT/UNIT
	SANITARY MANHOLE		CURB
	CLEAN-OUT		TEMPORARY GRADING PERMIT
	BARREL		CONTOUR MAJOR
	SIGN		CONTOUR MINOR
	PUSH BUTTON		WATER EASMENT
	HAND HOLE		STORM EASEMENT
			SANITARY EASEMENT
			R.O.W.
			LIMITS OF CONSTRUCTION
			LIMIT OF GRADING
			STONE WALL
			DETECTABLE WARNING
			ASPHALT
			CONCRETE
			SIDEWALK
			PROPOSED BRICK PAVER AREA
	TREE (DECIDUOUS)		TREE (DECIDUOUS)
	TREE (CONIFEROUS)		TREE (CONIFEROUS)
	TREE TO BE REMOVED (DECIDUOUS)		TREE TO BE REMOVED (CONIFEROUS)
	TREE TO BE REMOVED (CONIFEROUS)		STUMP TO BE REMOVED



NO.	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
LEGEND

SCALE: NTS
DRAWING No. 2020-038-4
SHEET No. 4 OF 80

C:\pwork\g1092459\CDT-PLTS-AA Details.dwg Dwg Created: 20-Nov-22 - _g2 standard bw.stb - Plot Date: 20-Nov-22

6" TYPICAL
8" AT INTERSECTIONS, BUMP OUTS AND DRIVE APPROACHES

6" TYPICAL
4" AT INTERSECTIONS, BUMP OUTS AND DRIVE APPROACHES

LIGHT BROOM FINISH

CONCRETE, GRADE P1 OR PN-C AS SPECIFIED BY ENGINEER WITH FIBER MESH REINFORCEMENT WHERE SPECIFIED

CLASS II GRANULAR MATERIAL OR 21AA DENSE GRADED AGGREGATE COMPACTED PER CITY OF ANN ARBOR STANDARDS

NATIVE MATERIAL IS ACCEPTABLE FOR SIDEWALK REPLACEMENT IF BASE IS STABLE AND FREE OF ORGANIC OR DELETERIOUS MATERIALS

REVISED 9-24-19

REV. NO.	DATE	DRAWN BY	CHECKED BY
DDA CONCRETE SIDEWALK			
DR. SGJR	CH. CEC	DRAWING NO.	
SCALE N.T.S.	DATE 10/28/15	SD-DDA-3	

NOTES:

1. DRY LAID PAVERS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
2. A MOCK-UP OF PAVERS SHALL BE BUILT TO ESTABLISH THE ACTUAL WIDTH OF PAVEMENT BAND TO AVOID SLIVERS OF PAVERS; APPROVAL BY DDA ENGINEER IS REQUIRED
3. ALL PAVERS SHALL BE RATED FOR HEAVY VEHICULAR TRAFFIC
4. NON-BRICK PAVERS MAY BE UTILIZED WITH APPROVAL BY DDA ENGINEER

MDOT CONCRETE, GRADE P1 OR PN-C AS SPECIFIED BY ENGINEER

BEDDING SHALL BE WASHED SHARP SAND CONFORMING TO ASTM C33, OR PER MANUFACTURER'S RECOMMENDATIONS

JOINTS FILLED WITH POLYMERIC JOINTING SAND OR PER MANUFACTURER'S RECOMMENDATIONS

BRICK PAVERS

12"-24" CONCRETE HEADER

SLOPE, 5% MAX.

2" DIAMETER WEEP HOLE FILLED WITH MDOT 29A OR 34A OPEN GRADED AGGREGATE

CLASS II GRANULAR MATERIAL OR 21AA DENSE GRADED AGGREGATE COMPACTED PER CITY OF ANN ARBOR STANDARDS

NATIVE MATERIAL IS ACCEPTABLE FOR SIDEWALK REPLACEMENT IF BASE IS STABLE AND FREE OF ORGANIC OR DELETERIOUS MATERIALS

REVISED 9-24-19

REV. NO.	DATE	DRAWN BY	CHECKED BY
DDA SIDEWALK PAVERS			
DR. SGJR	CH. CEC	DRAWING NO.	
SCALE N.T.S.	DATE 10/28/15	SD-DDA-4	

12" R.O.W.

3% MAX

1% - 2%

LAWN EXTENSION

MDOT P1 CONCRETE

CLASS II GRANULAR MATERIAL OR 21AA DENSE GRADED AGGREGATE, COMPACTED PER CITY OF ANN ARBOR STANDARDS.

GENERAL NOTE:
SIDEWALKS IN THE DDA SHALL BE CONSTRUCTED PER DETAILS SD-DDA-1 THROUGH SD-DDA-7.

NOTES:

1. STANDARD SIDEWALK WIDTH SHALL BE 5'.
2. STANDARD SLAB LENGTH SHALL BE 5'.
3. MINIMUM SLAB LENGTH SHALL BE 3' AND MAXIMUM 7'.
4. MINIMUM SIDEWALK THICKNESS (T1) SHALL BE 4".
5. SIDEWALK THICKNESS (T1) SHALL BE INCREASED AT DRIVE APPROACHES TO 6" FOR SINGLE OR DUPLEX USES AND TO 8" FOR ALL OTHER USES.
6. BASE THICKNESS (T2) SHALL BE 4".
7. BASE THICKNESS (T2) SHALL BE INCREASED TO 6" AT DRIVE APPROACHES.
8. NATIVE MATERIAL IS ACCEPTABLE FOR SIDEWALK REPLACEMENT IF BASE IS STABLE AND FREE OF ORGANIC OR DELETERIOUS MATERIALS.
9. SIDEWALK RAMP SHALL BE CONSTRUCTED AT STREET INTERSECTIONS AS DIRECTED AND SHALL COMPLY WITH THE REQUIREMENTS OF MDOT DETAIL R-28 (LATEST VERSION).
10. II SIDEWALKS ARE APPROVED TO MEANDER WITHIN THE RIGHT-OF-WAY TO PROTECT AND SAVE TREES, SLOPES, ETC., CURVES IN THE SIDEWALK SHALL HAVE A MINIMUM 5' RADIUS, WITH A MINIMUM 3' LAWN EXTENSION.
11. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED PER STANDARD DETAIL SD-R-10.

SIDEWALK CROSS SECTION SD-R-9

REVISED 6-28-19

REV. NO.	DATE	DRAWN BY	CHECKED BY
SIDEWALK CROSS SECTION			
DR. DPF	CH. CSS	DRAWING NO.	
SCALE N.T.S.	DATE 11/06/92	SD-R-9	

GENERAL NOTES:

1. DESIGN MAY UTILIZE TOOLED OR SAW-CUT CONTRACTION JOINT. PLANS MUST INDICATE SELECTION OF JOINT TYPE. PROJECT MUST HAVE EITHER JOINT TYPE, BUT NOT BOTH.

1/4" CONTRACTION JOINT TO DEPTH OF PAVEMENT

TOP OF SIDEWALK

CONTRACTION JOINT

1/2" OR 3/4" AS REQUIRED PER SD-R-10

JOINT SEALANT AS REQUIRED ONLY IN DDA

JOINT MATERIAL

TOP OF SIDEWALK

EXPANSION JOINT

REVISED 9-5-19

REV. NO.	DATE	DRAWN BY	CHECKED BY
SIDEWALK CURB AND GUTTER JOINTS			
DR. SGJR	CH. CEC	DRAWING NO.	
SCALE N.T.S.	DATE 10/28/15	SD-R-11	

STEP

FORM CHANNEL TO BEND FLOW FROM LATERAL INTO MAIN SEWER

MIN.(1)-MAX.(3) BRICK OR 2" PRECAST CONC. ADJUSTMENT RING COURSES FOR ADJUSTING CASTING TO FINISH GRADE

CASTING AS SPECIFIED

CASTING AND BRICK(S) POINTED WITH MORTAR

EXTERNAL CHIMNEY SEAL PER SPECIFICATIONS

ECCENTRIC REDUCTION CONES

RUBBER GASKET JOINTS (TYP.)

1/2" GALVANIZED STEEL SLEEVE & CAP INSTALLED AT PIPE CROWN, FLUSH WITH OUTSIDE WALL, AND EXTENDING 3" INSIDE. CONTRACTOR SHALL CAP UPON COMPLETION OF TESTING.

PRECAST CONC. MANHOLE SECTIONS

PRECAST BASE

MINIMUM 4" 6A OR 21AA STONE BEDDING AND BACKFILL UNDER MANHOLE BASE AND TO FIRST PIPE JOINT

PIPE SIZE	MIN. DIA.
<36"	4'
36"-42"	5'
48"-54"	6'

NOTES:

1. ALL SANITARY MANHOLES SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 UNLESS APPROVED BY PSAA FOR SHALLOW APPLICATION.
2. ALL MANHOLES MUST HAVE ECCENTRIC CONES.
3. ALL SANITARY SEWER OPENINGS SHALL BE PRECAST WITH RUBBER BOOT CONNECTIONS CONFORMING TO ASTM C923.
4. ALL JOINTS SHALL CONFORM TO ASTM C443.
5. MINIMUM MANHOLE DIAMETER SHOWN IN TABLE 1 SHALL BE INCREASED AS NEEDED BASED ON NUMBER OF PIPES AND ANGLE BETWEEN PIPES WITH 12" MIN. BETWEEN OPENINGS.

SANITARY MANHOLE SD-SN-1

REVISED 4-9-20

REV. NO.	DATE	DRAWN BY	CHECKED BY
SANITARY MANHOLE			
DR. DPF	CH. CSS	DRAWING NO.	
SCALE N.T.S.	DATE 11/6/92	SD-SN-1	

1. MIN. 2" x 4" CEDAR TREATED LUMBER, SET VERTICALLY AT GRADE.
2. CAP WITH WATER TIGHT REMOVABLE PLUG.
3. PACKED 6A STONE TO EXTEND 1' MINIMUM BEYOND WYE JOINT.

MIN. 1% GRADE FOR 6"
MIN. 2% GRADE FOR 4"

BEND AS REQUIRED

WYE

MARKING TAPE (SANITARY-RED) (STORM-WHITE)

SANITARY SEWER CONNECTION SD-SN-3

REVISED 4-15-19

REV. NO.	DATE	DRAWN BY	CHECKED BY
SANITARY SEWER CONNECTION			
DR. DPF	CH. CSS	DRAWING NO.	
SCALE N.T.S.	DATE 11/6/92	SD-SN-3	

1. MIN. 2" x 4" TREATED WOOD LUMBER, SET VERTICALLY AT GRADE.
2. CAP WITH WATER TIGHT REMOVABLE PLUG.
3. PACKED 6A STONE TO EXTEND 1' MINIMUM BEYOND WYE JOINT.

MARKING TAPE (SANITARY-RED, STORM-WHITE)

BEND AS REQUIRED

WYE

RISE RISE HEIGHT

SANITARY SEWER CONNECTION WITH RISER SD-SN-4

REVISED 6-12-19

REV. NO.	DATE	DRAWN BY	CHECKED BY
SANITARY SEWER CONNECTION WITH RISER			
DR. DPF	CH. CSS	DRAWING NO.	
SCALE N.T.S.	DATE 11/6/92	SD-SN-4	

EXISTING LEAD

PROPOSED UTILITY

EXISTING SANITARY SEWER

PROPOSED LEAD RELOCATION

MINIMUM SLOPE 4"=2% 6"=1%

VARIES, MINIMUM 18"

EXISTING LEAD

PROPOSED UTILITY

EXISTING SANITARY SEWER

PROPOSED LEAD RELOCATION

MINIMUM SLOPE 4"=2% 6"=1%

VARIES, MINIMUM 18"

MAX. 45° BENDS

PLACE AGAINST UNDISTURBED GROUND

SANITARY LEAD RELOCATION SD-SN-6

REVISED 1-28-20

REV. NO.	DATE	DRAWN BY	CHECKED BY
SANITARY LEAD RELOCATION			
DR. DPF	CH. DG	DRAWING NO.	
SCALE N.T.S.	DATE 01/28/20	SD-SN-6	

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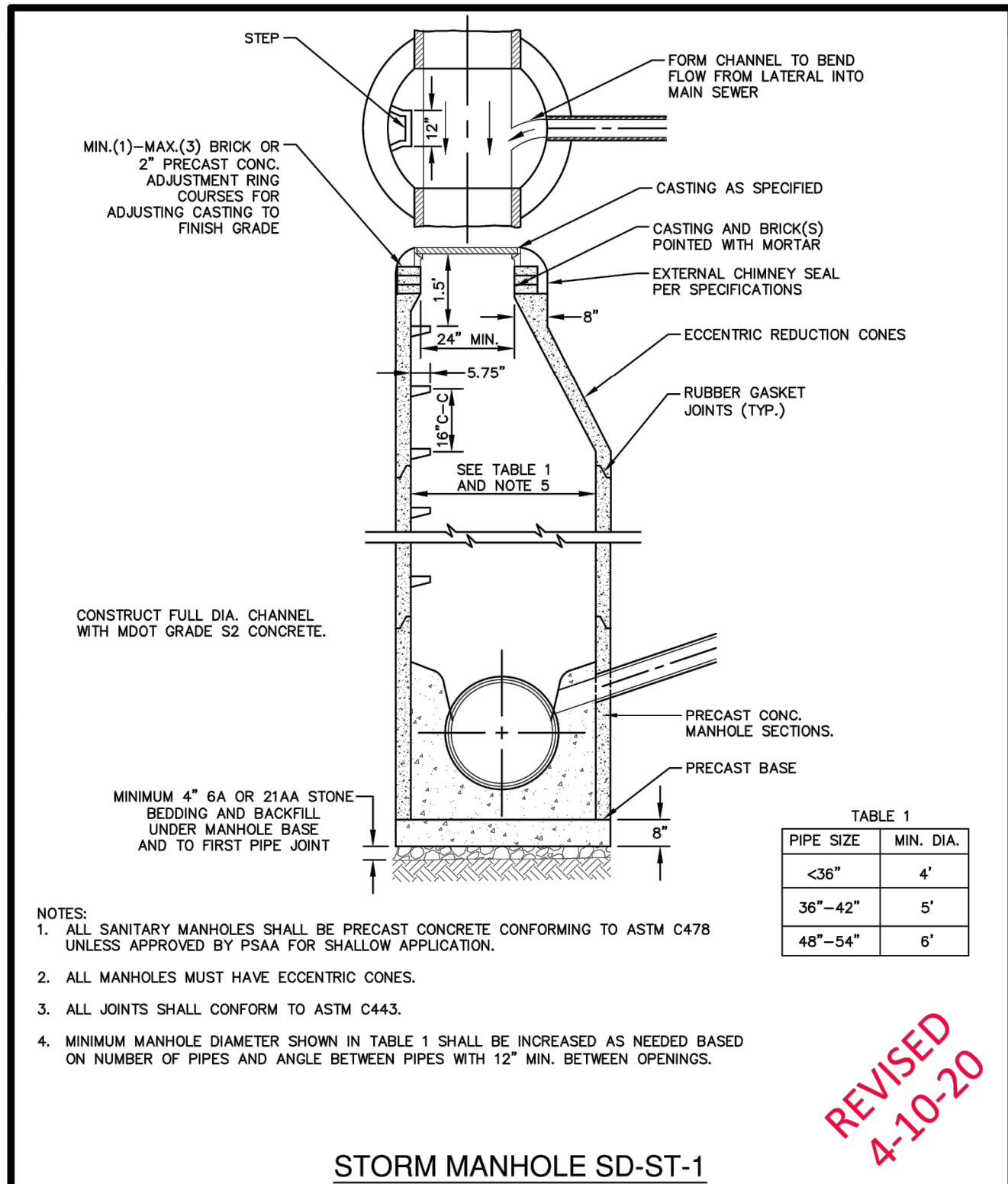


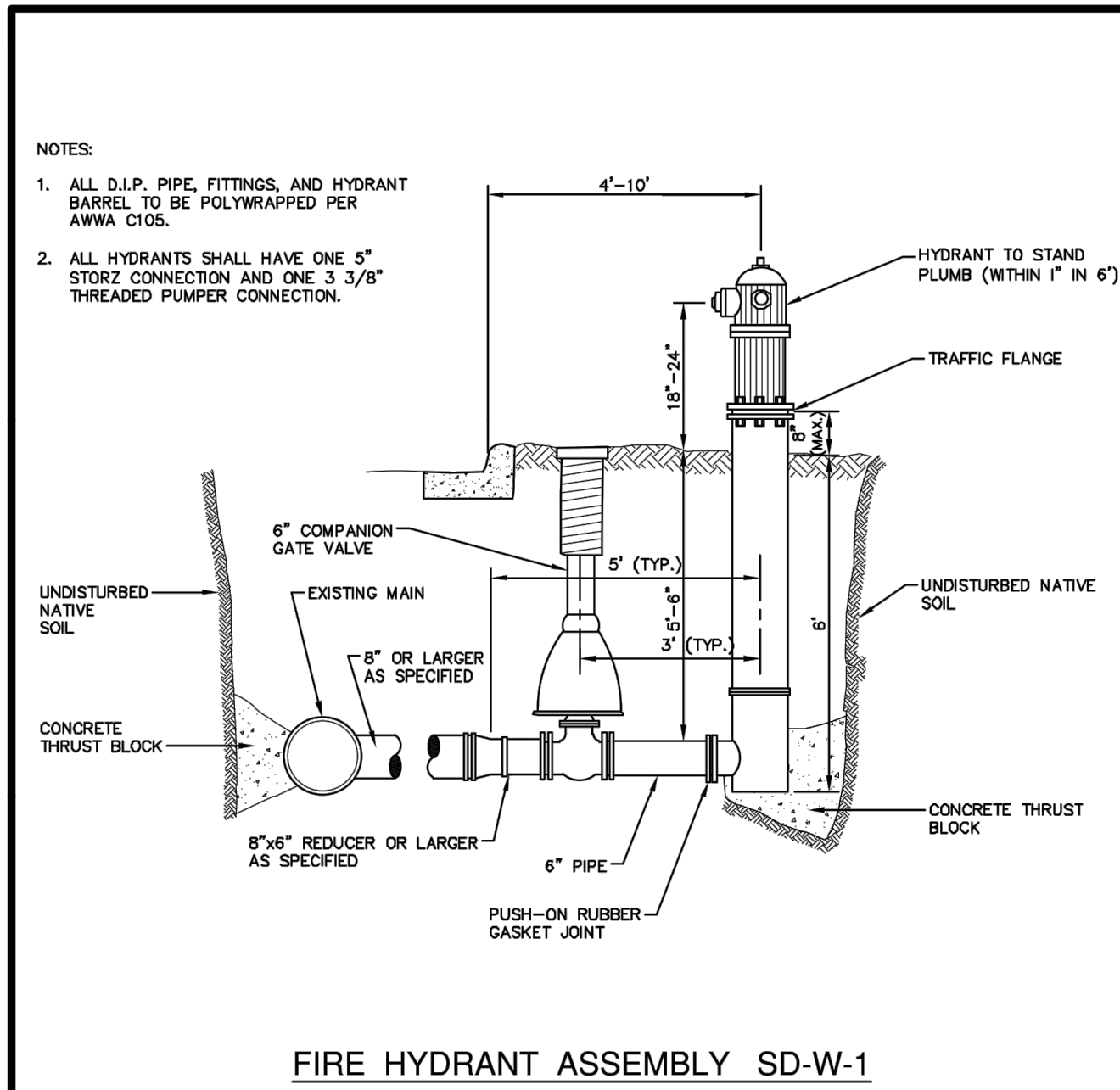
TABLE 1
PIPE SIZE MIN. DIA.

<36"	4"
36"-42"	5"
48"-54"	6"

STORM MANHOLE SD-ST-1

REV. NO. DATE DRAWN BY CHECKED BY

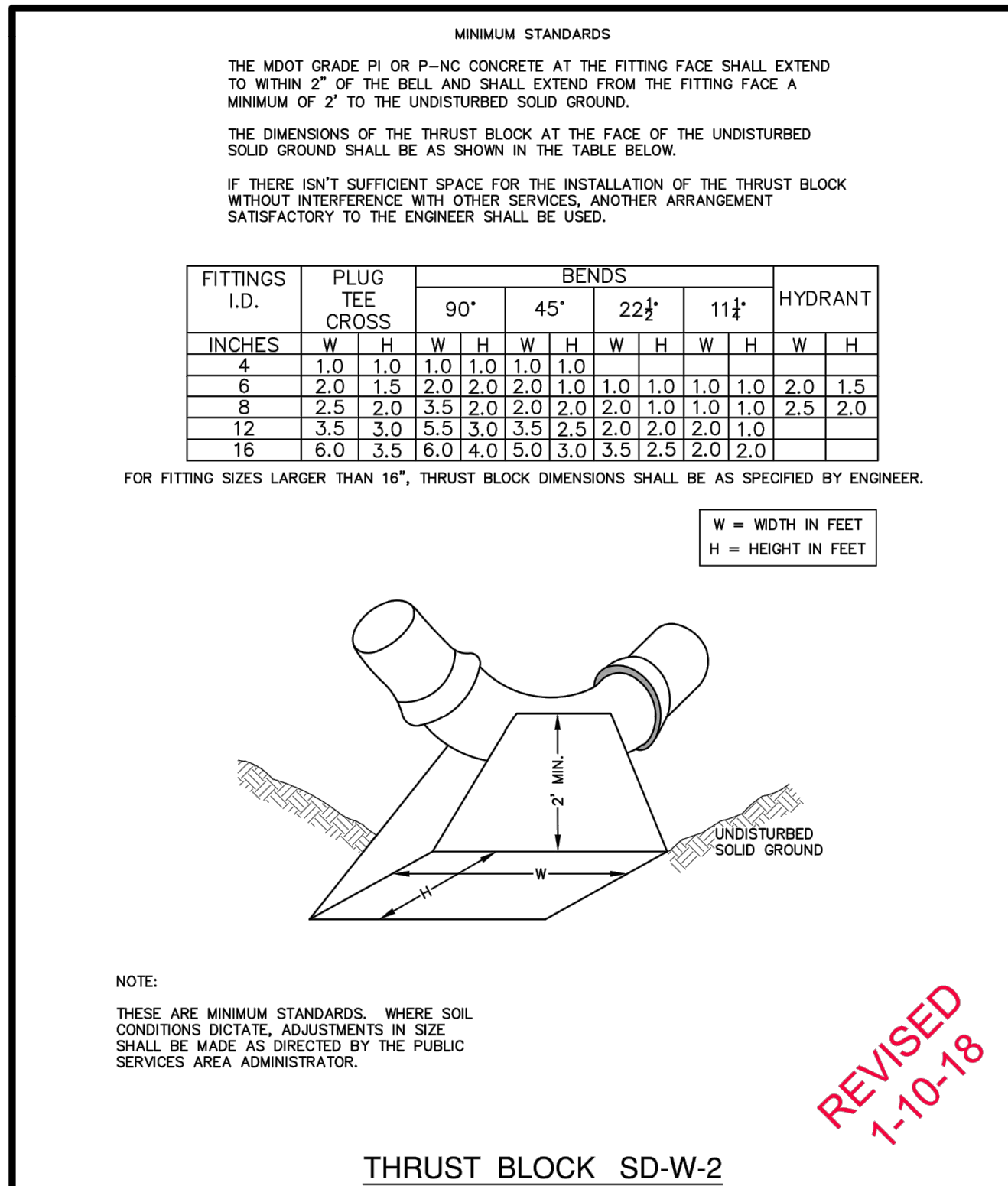
DR. DF CH. CSS DRAWING NO. SD-ST-1
SCALE N.T.S. DATE 11/6/92



FIRE HYDRANT ASSEMBLY SD-W-1

REV. NO. DATE DRAWN BY CHECKED BY

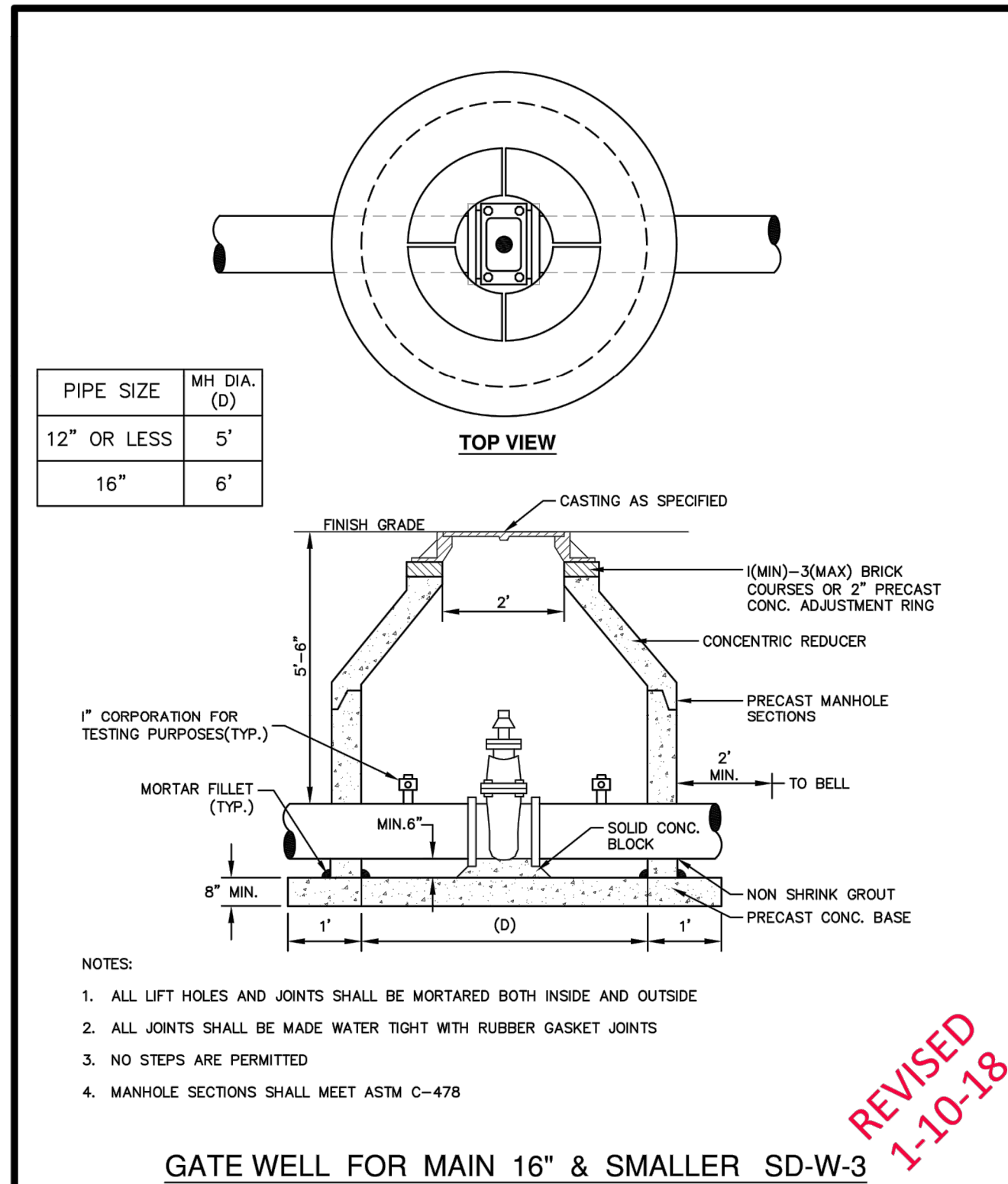
DR. DF CH. CSS DRAWING NO. SD-W-1
SCALE N.T.S. DATE 11/06/92



THRUST BLOCK SD-W-2

REV. NO. DATE DRAWN BY CHECKED BY

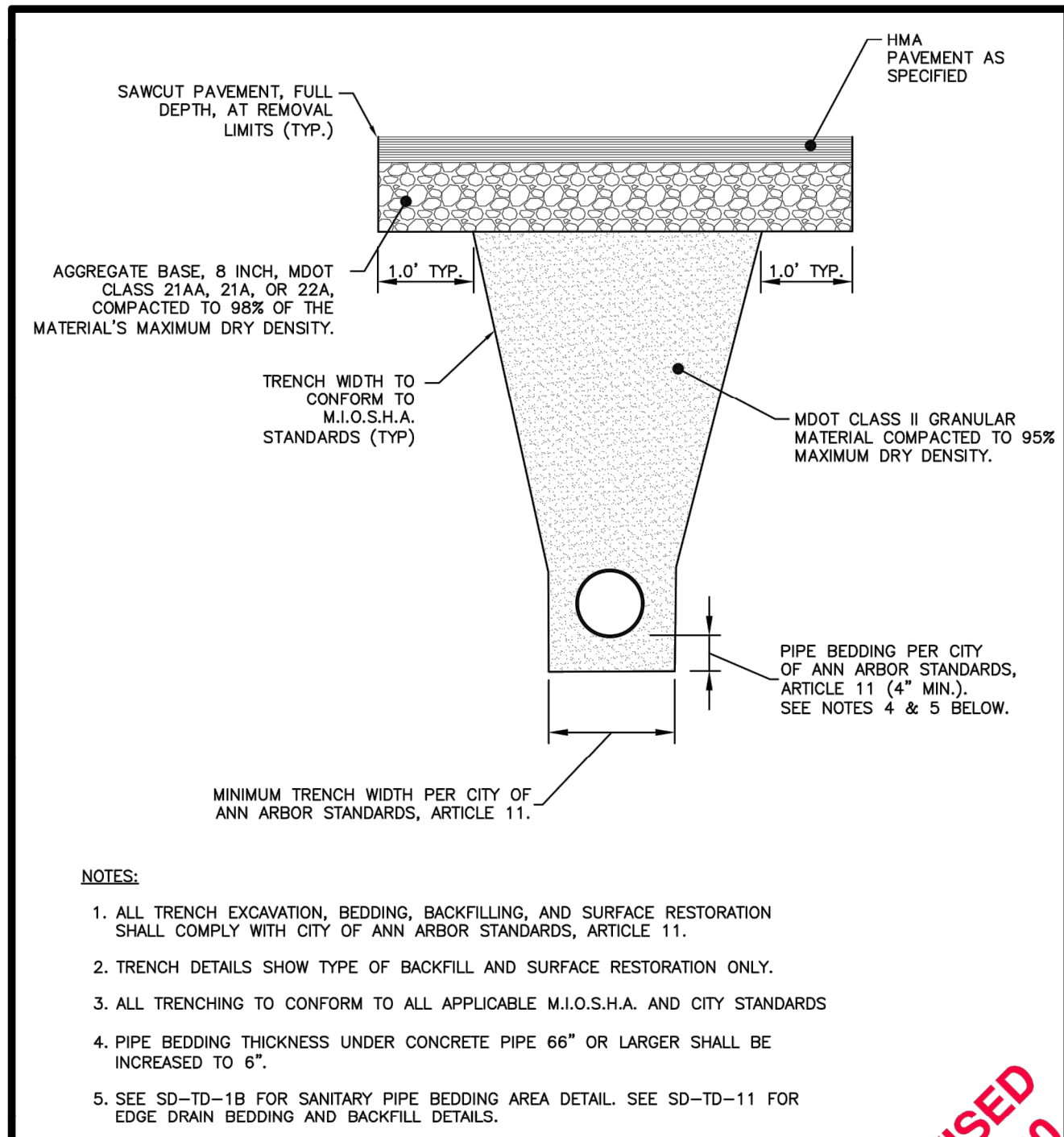
DR. DF CH. CSS DRAWING NO. SD-W-2
SCALE N.T.S. DATE 11/06/92



GATE WELL FOR MAIN 16" & SMALLER SD-W-3

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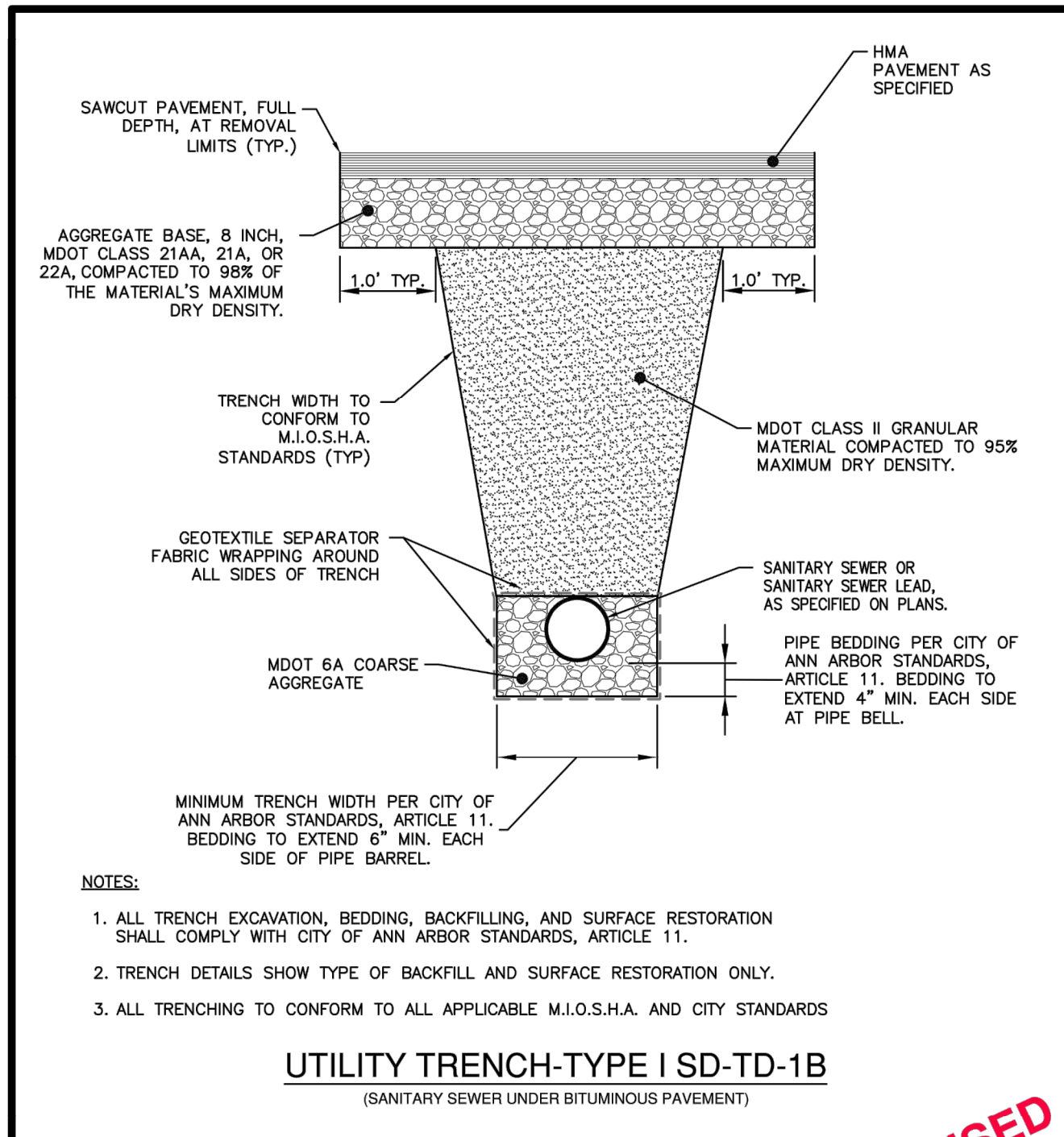
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SCALE N.T.S. DATE 11/06/92



UTILITY TRENCH-TYPE I SD-TD-1A
(UNDER BITUMINOUS PAVEMENT EXCL. SANITARY SEWER & EDGE DRAIN)

REV. NO. DATE DRAWN BY CHECKED BY

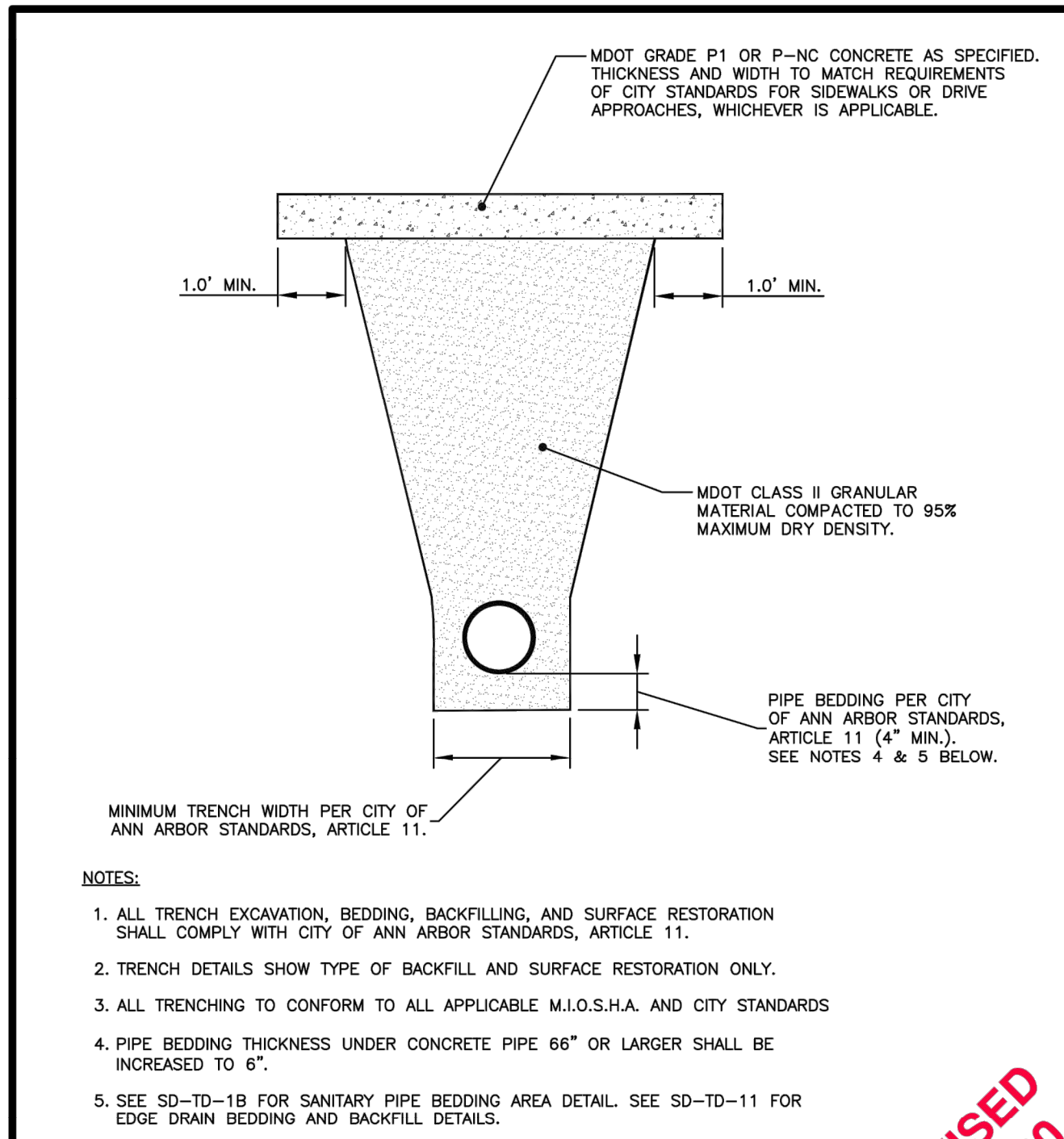
DR. DF CH. CSS DRAWING NO. SD-TD-1A
SCALE N.T.S. DATE 11/6/92



UTILITY TRENCH-TYPE I SD-TD-1B
(SANITARY SEWER UNDER BITUMINOUS PAVEMENT)

REV. NO. DATE DRAWN BY CHECKED BY

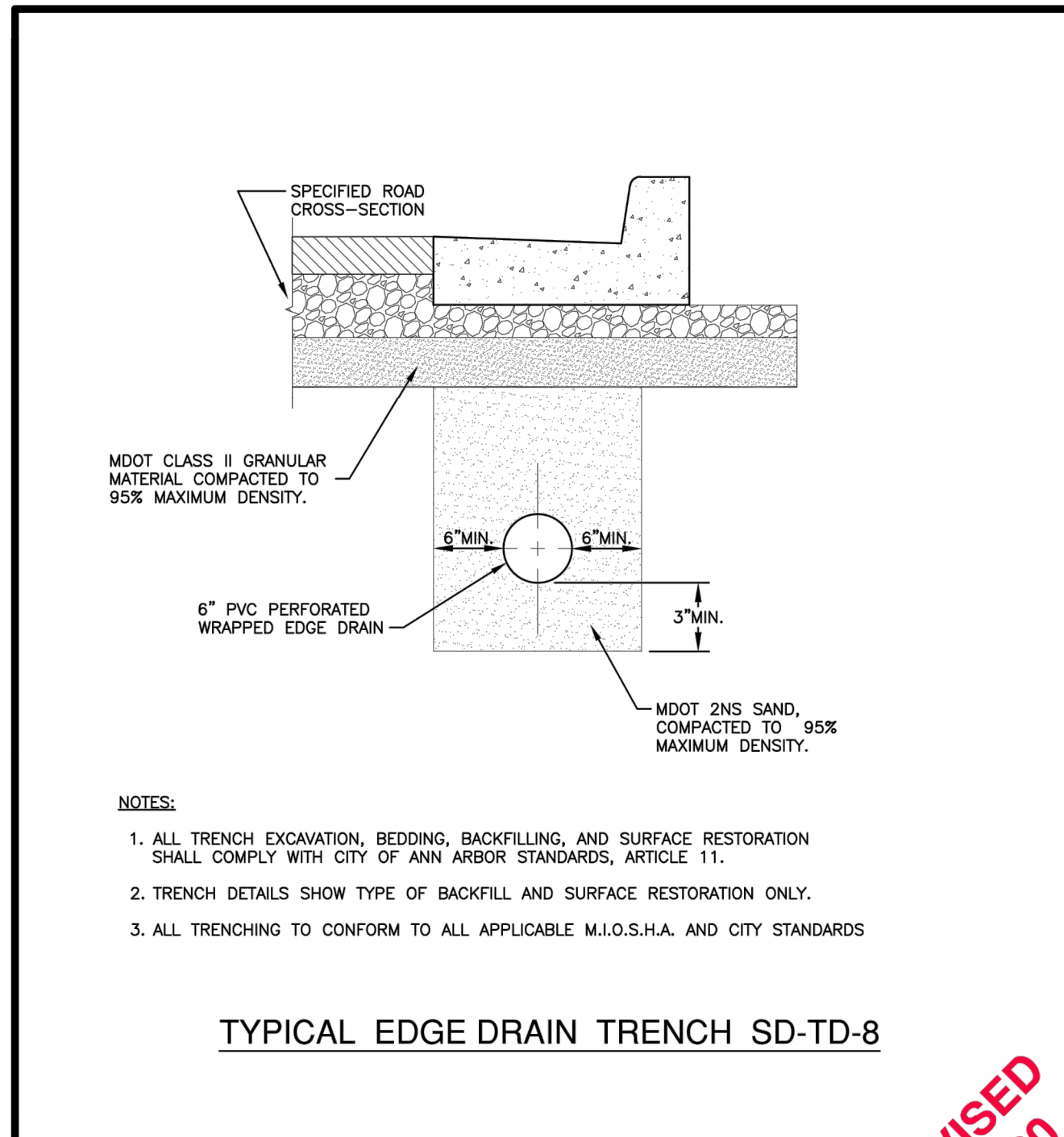
DR. DF CH. CSS DRAWING NO. SD-TD-1B
SCALE N.T.S. DATE 11/6/92



UTILITY TRENCH-TYPE VII SD-TD-7
(UNDER SIDEWALK OR DRIVE APPROACH)

REV. NO. DATE DRAWN BY CHECKED BY

DR. DF CH. CSS DRAWING NO. SD-TD-7
SCALE N.T.S. DATE 11/6/92



TYPICAL EDGE DRAIN TRENCH SD-TD-8

REV. NO. DATE DRAWN BY CHECKED BY

DR. ARG CH. DG DRAWING NO. SD-TD-8
SCALE N.T.S. DATE 7/7/20

811 Know what's below. Call before you dig.

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

ANN ARBOR STANDARD DETAILS 2

CITY OF ANN ARBOR - ENGINEERING

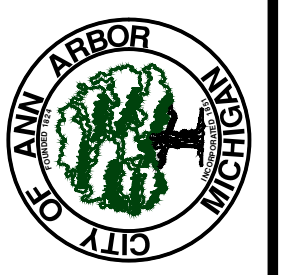
SCALE PLAN: #####

DRAWING NO. 2020-038-6

SHEET NO. 6 OF 80

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
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301 EAST HURON STREET
ANN ARBOR, MI 48107-8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
ANN ARBOR STANDARD DETAILS 3

SCALE PLAN: #####
DRAWING No. 2020-038-7

NOTES:

- FRONT EDGE OF INLET CASTINGS SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL).
- THIS DETAIL SHALL BE USED FOR MOUNTABLE CURB AND GUTTER ON ASPHALT STREETS. SEE SD-R-3 FOR MOUNTABLE CURB AND GUTTER ON CONCRETE STREETS.

MOUNTABLE CURB & GUTTER FOR ASPHALT STREETS SD-R-2

REVISED 6-2-20

REV. NO.	DATE	DRAWN BY	CHECKED BY

DR. OF: CH. CSS DRAWING NO. SD-R-2
SCALE: N.T.S. DATE: 11/6/92

NOTE - CONSULT WITH UTILITY CONTRACTOR, CITY DPW , AND ENGINEER TO DETERMINE EXACT LOCATION AND ORIENTATION OF METER PIT. FINAL LOCATION SHALL BE AS CLOSE TO PLANTER BOX AS POSSIBLE, WHILE SUPPORTING PLANTER DURING INSTALLATION. LOCATION OF METER PIT MAY BE MOVED TO OPPOSITE SIDE OF PLANTER BOX FOR EASE OF CONSTRUCTABILITY AT THE APPROVAL OF THE ENGINEER.

SCHEMATIC METER PIT / QUICK COUPLER INSTALLATION
NTS

- 1" TAP, SHUT OFF GATE, BOX AND CORPORATION STOP -- PER CITY SPECIFICATIONS
- SIDEWALK GRADE
- CAPPED BALL VALVE FOR WINTERIZATION AIR COMPRESSOR ATTACHMENT PER CITY SPECIFICATIONS
- EAST JORDAN IRON WORKS (800-626-4653) #1730C-18 RECTANGULAR SERIES METER BOX WITH 1730 COVER 21-1/4" X 34-1/8" X 18"BCF HATCH MUST BE CENTERED OVER QUICK COUPLER FOR ACCESS
- 1" TYPE 'K' COPPER PIPE
- WATER METER-CONSULT WITH CITY FOR SIZE REQUIREMENTS. CONTRACTOR RESPONSIBLE FOR INSTALLING ALL COMPONENTS OF METER PIT INCLUDING METER HORNS, AND COORDINATE WITH CITY FOR INSTALLATION OF WATER METER.
- 1" TYPE 'L' HARD COPPER PIPE
- WATTS LF7 1-1/4" DUAL CHECK VALVE ASSEMBLY
- UNISTRUT PIPE SUPPORT. SECURE PIPE ASSEMBLY TO SUPPORT.
- RAINBIRD 33DNP 3/4-INCH QUICK COUPLER WITH 33-DK KEY AND SH-O MALE HOSE SWIVEL.
- 1" BALL VALVE
- QUICK COUPLER MUST BE SET AND ALIGNED WITH VALVE BOX LID OPENING. VALVE BOX LID IS NOT TO BE REMOVED TO ALLOW ACCESS TO QUICK COUPLER.
- PLANTER INSTALLATIONS ONLY - (IF DESIRED). SECURE RAINBIRD 33DNP QUICK COUPLER TO INSIDE EDGE AND BELOW TOP OF PLANTER, WITH METHOD APPROVED BY CITY DPW
- 1" POLYETHYLENE PIPE FROM METER PIT TO ADDITIONAL QUICK COUPLERS IF DESIRED. DOUBLE CLAMP PIPE TO FITTINGS WITH WORM GEAR CLAMPS
- PLANTER BOX
- ABANDON AND REMOVE EXISTING ABOVE-GRADE IRRIGATION COMPONENTS IN PLANTER

CONCRETE UTILITY SADDLE
INCLUDED IN PIPE PAY ITEM

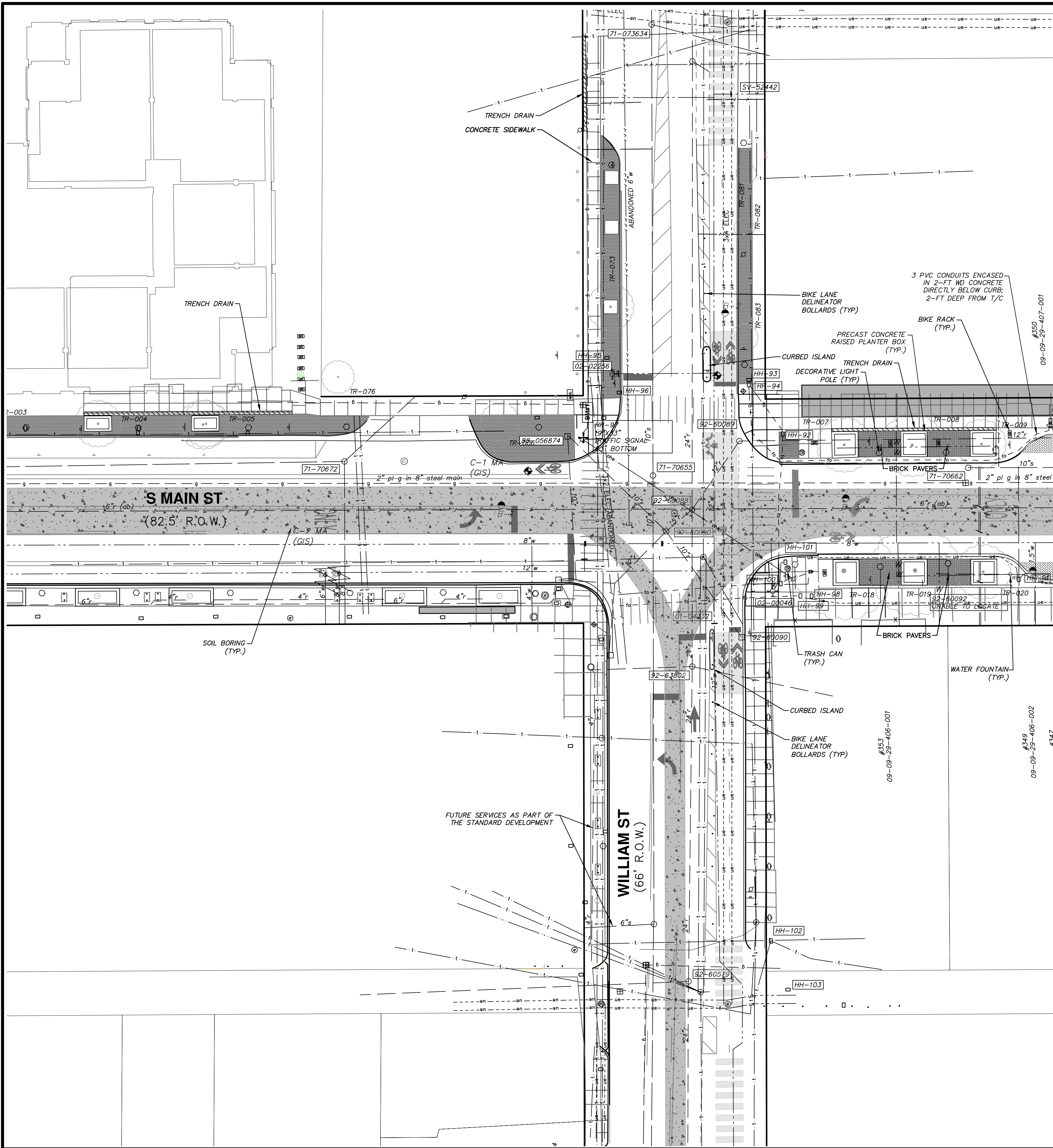
APPLIES TO: WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE

NOTE - CONSULT WITH UTILITY CONTRACTOR, CITY DPW , AND ENGINEER TO DETERMINE EXACT LOCATION AND ORIENTATION OF WATER FOUNTAIN WINTERIZATION BOX.

WATER FOUNTAIN WINTERIZATION BOX
NTS





- 1" TAP, SHUT OFF GATE, BOX AND CORPORATION STOP -- PER CITY SPECIFICATIONS
- SIDEWALK GRADE
- CAPPED BALL VALVE FOR WINTERIZATION AIR COMPRESSOR ATTACHMENT PER CITY SPECIFICATIONS
- EAST JORDAN IRON WORKS (800-626-4653) #1118C-12 RECTANGULAR SERIES METER BOX WITH 1118 COVER 11-7/16" X 18-1/8" X 12"BCF
- 1" TYPE 'K' COPPER PIPE
- 1.5" PVC SLEEVE
- 1" TYPE 'L' HARD COPPER PIPE
- WATTS LF7 1-1/4" DUAL CHECK VALVE ASSEMBLY
- UNISTRUT PIPE SUPPORT. SECURE PIPE ASSEMBLY TO SUPPORT.
- 1" BALL VALVE
- REINSTALL SALVAGED WATER FOUNTAIN. CONNECT TO NEW SERVICE.

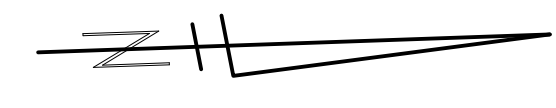
C:\pw_work\g1092459\VSP-PLTS-Ex Conditions-Main.dwg Dwg Created: 20-Nov-22 - _g2 standard bw.stb - Plot Date: 20-Nov-22



MATCH LINE STA 4+00
SEE SHEET 9

LEGEND

-  EXISTING BUILDING VAULTS
-  APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
-  EXISTING BRICK PAVER AREA
-  EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT



EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	INVERT ELEVATION, SIZE & DIRECTION	TOP OF CASTING ELEVATION	DEPTH (Feet)
88-60090	2+63	10" SW 838.99	841.49	2.50
88-056874	2+10	10" NE 837.85	840.55	2.70
92-60088	2+77	12" NW 837.53 24" W 832.53 24" E 832.83 15" SE 834.03	841.53	9.00
92-60090	2+45	15" NW 835.92 10" SW 836.42 10" NE 837.12 12" SE 836.42	841.62	5.70
92-63802	2+55	24" W 835.03 24" E 835.12	842.23	7.20
92-60089	2+86	12" N 833.76 12" SE 833.76	840.96	7.20

EXISTING SANITARY SEWER STRUCTURE TABLE

STRUCTURE	STATION	RIM	DEPTH	INVERTS
71-50086	2+40.30	844.12	11.40	10" W 832.72
71-70672	1+28.85	840.51	1.36	8" S 832.21 6" E 832.71
71-073634	2+76.57	835.38	11.90	10" E 823.48
71-70655	2+76.57	841.22	10.70	10" E 830.82 10" W 830.52
71-70662	3+68.51	841.01	7.44	10" N 833.57

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

EXISTING CONDITIONS STA 0+00 TO STA 4+00

SCALE PLAN: 1"=20'


DRAWING No. 2020-038-8

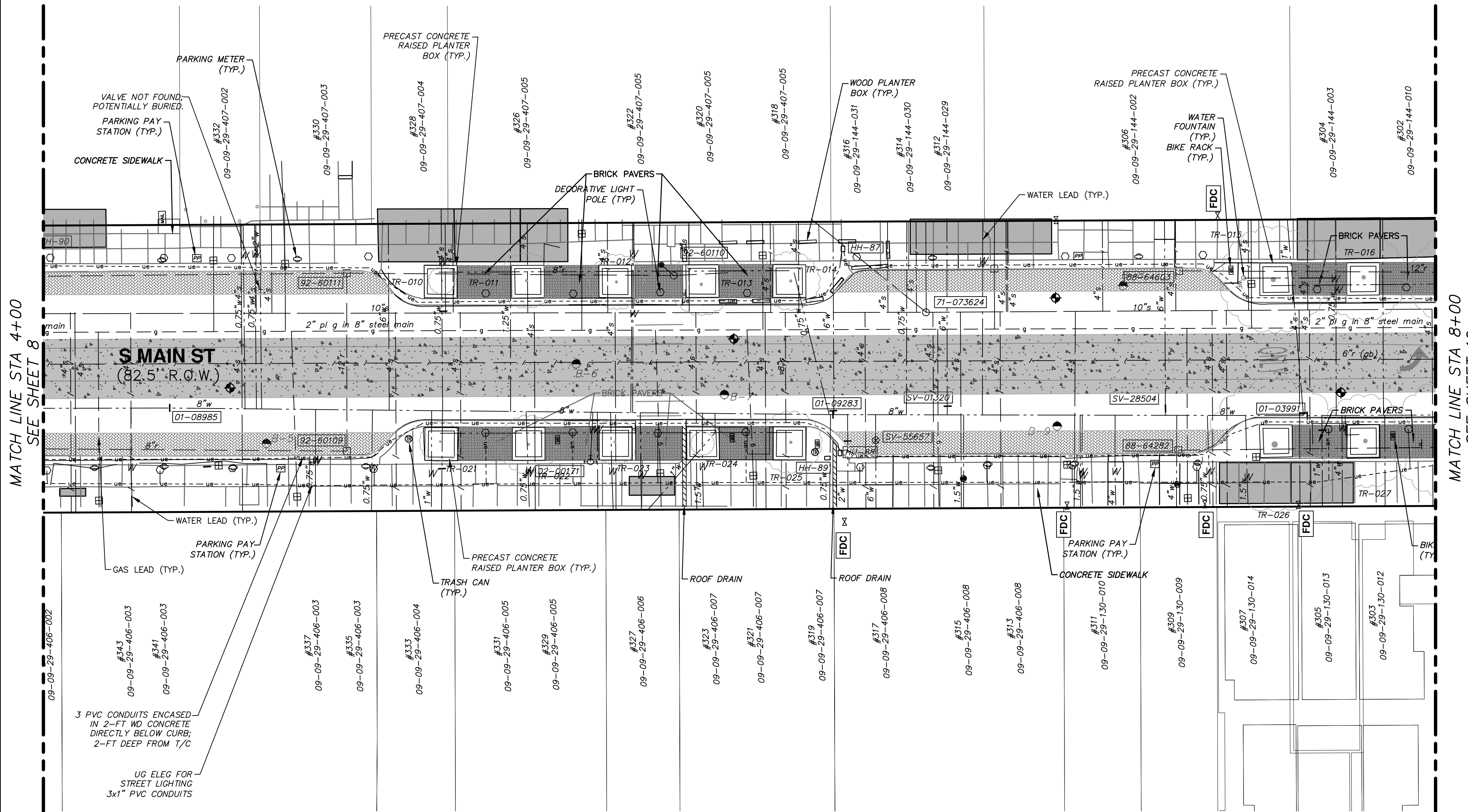
SHEET No. 8 OF 80

811
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LEGEND

- EXISTING BUILDING VAULTS
- APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
 EXISTING CONDITIONS STA 4+00 TO STA 8+00

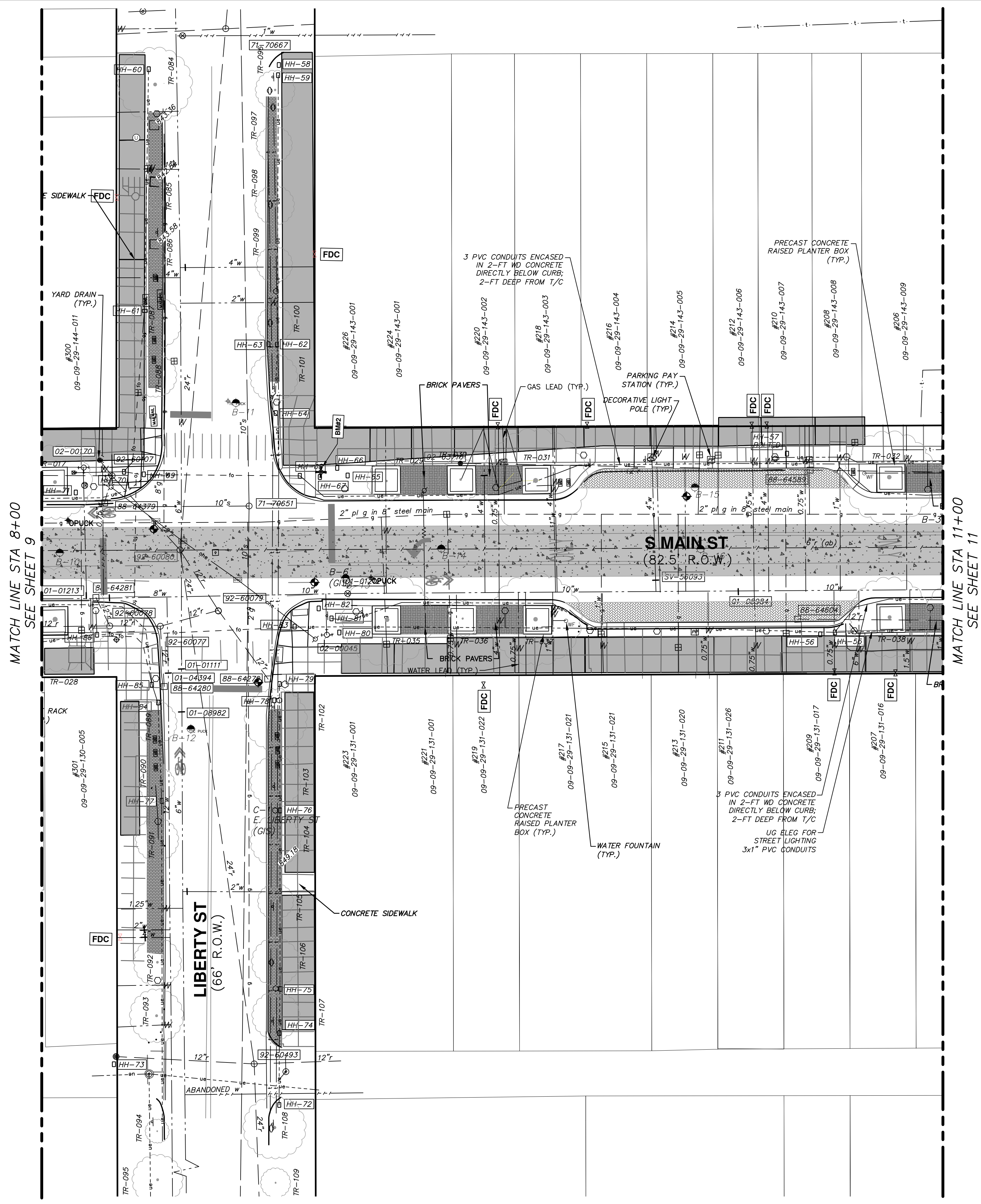
SCALE PLAN: 1"=20'
 DRAWING No. 2020-038-9

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	INVERT ELEVATION, SIZE & DIRECTION	TOP OF CASTING ELEVATION	DEPTH (Feet)
88-64603	7+26	12" N 835.76	839.26	3.50
88-64282	7+26	12" N 836.26	839.76	3.50
92-60110	5+81	6" N 837.26 8" S 837.26	840.26	5.00
92-60111	4+87	8" N 834.67 12" E 834.67 12" S 834.67	839.87	5.20
92-60109	4+87	12" W 836.45 8" S 836.45	840.65	4.20

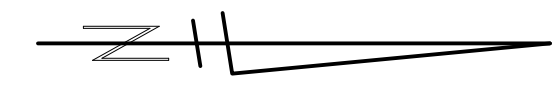
EXISTING SANITARY SEWER STRUCTURE TABLE

STRUCTURE	STATION	RIM	DEPTH	INVERTS
71-073624	6+53.28	840.20	9.90	10" N 830.30 10" S 830.40



LEGEND

- EXISTING BUILDING VAULTS
- APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT



EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	INVERT ELEVATION, SIZE & DIRECTION	TOP OF CASTING ELEVATION	DEPTH (Feet)
88-64379	8+21	12" W 836.99	839.59	2.60
88-64281	8+18	12" NE 836.99	839.94	2.95
88-64280	8+41	12" W 837.31	839.91	2.60
88-64279	8+75	12" SW 836.95	840.05	3.10
88-64589	10+56	12" N 834.76 12" S 834.76	837.96	3.20
88-64604	10+52	12" N 834.12	838.82	4.70
92-60107	8+23	12" NE 836.27 12" E 836.67 12" S 836.37	839.97	3.70
92-60078	8+23	12" N 836.65 12" SW 836.75 12" S 837.05	840.65	4.00
92-60493	8+69	24" W 834.78	841.98	7.20
92-60077	8+39	12" N 836.07 12" E 836.37 12" S 836.57	840.07	4.00
92-60080	8+46	12" NE 833.52 12" SW 834.03 24" E 831.72 24" W 831.22	840.02	8.80
92-60079	8+59	12" NE 835.86 12" S 835.53 12" SW 835.86	840.19	4.66
92-63716	9+40	12" N 835.20	839.37	4.17

EXISTING SANITARY SEWER STRUCTURE TABLE

STRUCTURE	STATION	RIM	DEPTH	INVERTS
71-70651	8+69.23	839.79	12.60	10" S 828.28 10" W 827.19 10" E 827.39

EXISTING WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
01-01118	Gate Valve	8+47	839.46	5.52
01-01212	Gate Valve	9+02	839.94	11.93

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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

EXISTING CONDITIONS STA 8+00 TO STA 11+00

SCALE PLAN: 1"=80'

DRAWING No. 2020-038-10

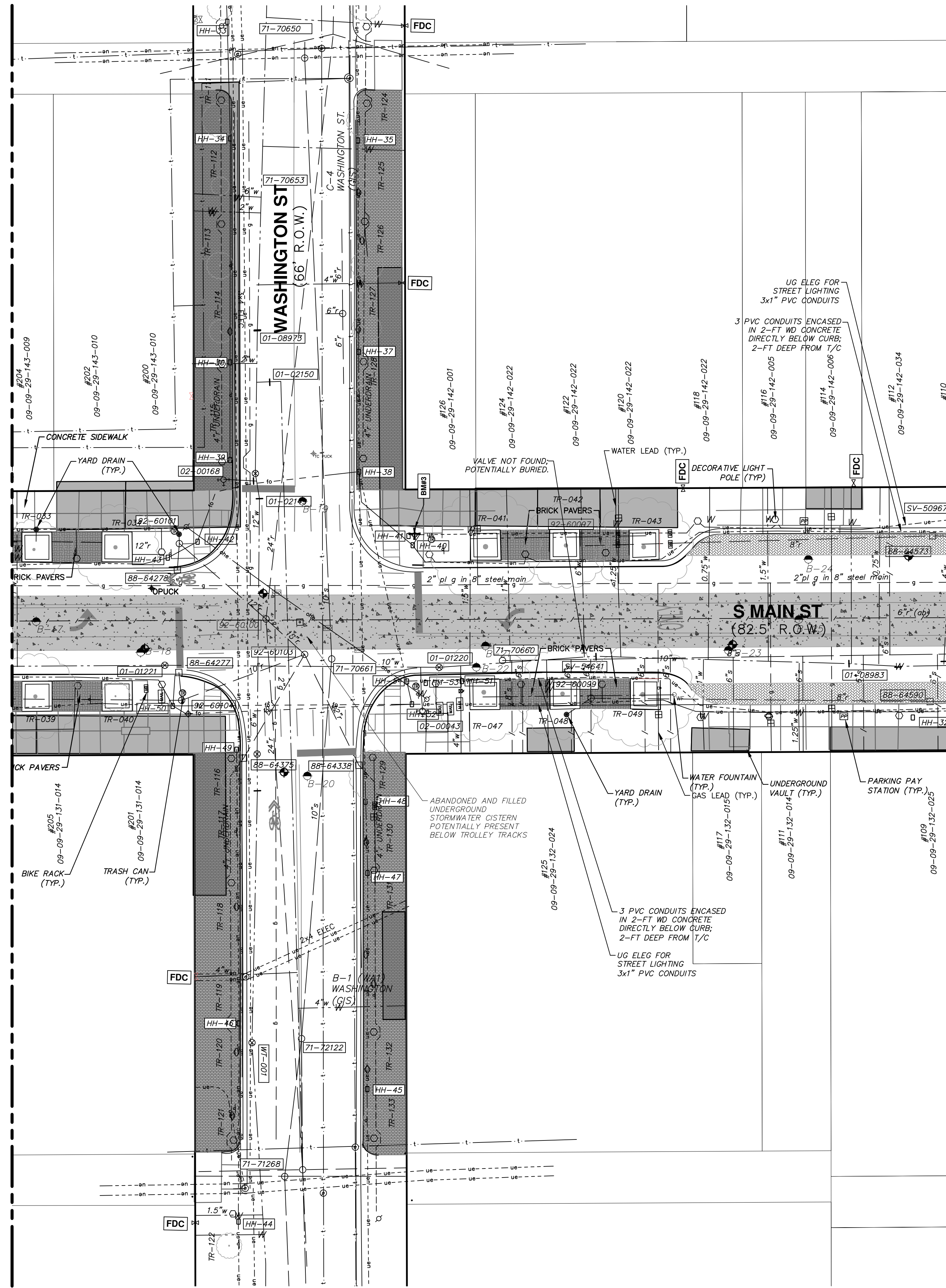
SHEET No. 10 OF 80

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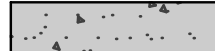


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MATCH LINE STA 11+00
SEE SHEET 10



MATCH LINE STA 14+00
SEE SHEET 12

LEGEND

-  EXISTING BUILDING VAULTS
-  APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
-  EXISTING BRICK PAVER AREA
-  EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT



EXISTING STORM SEWER STRUCTURE TABLE

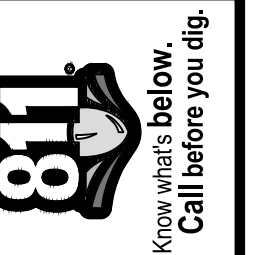
STRUCTURE	UTILITY STATION	INVERT ELEVATION, SIZE & DIRECTION	TOP OF CASTING ELEVATION	DEPTH (Feet)
88-64375	11+79	12" NW 834.74	837.94	3.20
88-64278	11+58	12" W 834.57	837.97	3.40
88-64277	11+59	12" E 834.95	838.05	3.10
88-64338	12+15	12" SW 832.13	837.91	5.78
88-64590	13+93	12" N 832.92 8" S 832.82	836.02	3.20
92-60104	11+60	10" N 834.81 12" S 834.81 12" W 834.81	838.41	3.60
92-60101	11+59	12" NE 834.11 12" E 834.11 12" S 834.11	838.31	4.20
92-60100	11+86	24" W 829.45 24" E 829.35 18" NE 830.55 12" SW 831.45	838.35	9.00
92-60103	11+98	18" SW 831.73 12" NE 831.85 12" SE 831.85 10" S 831.85	838.43	6.70
92-60099	12+88	8" N 833.31 6" SE 838.29	837.69	4.38

EXISTING SANITARY SEWER STRUCTURE TABLE

STRUCTURE	STATION	RIM	DEPTH	INVERTS
71-72122	11+97.47	840.10	11.50	10" W 828.60
71-70650	11+97.79	835.19	11.60	10" E 823.59
71-70661	12+06.64	838.34	11.00	10" E 827.54 10" W 827.34
71-70660	12+59.92	837.47	5.00	8" N 831.37
92-60782	11+97.92	842.48	2.75	24" W 839.73

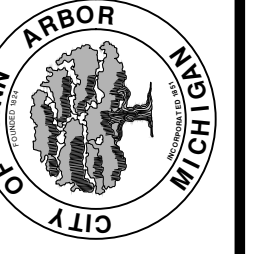
EXISTING WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
01-01221	Gate Valve	11+55	838.18	9.92
01-08981	Gate Valve	11+82	839.60	5.50
01-02149	Gate Valve	11+83	837.44	4.70
01-02136	Gate Valve	11+83	838.14	1.47
01-01220	Gate Valve	12+40	837.68	9.13
01-08983	Gate Valve	13+83	836.45	8.13



DATE	DRAWN	CHECKED

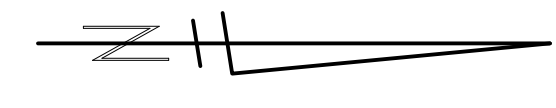
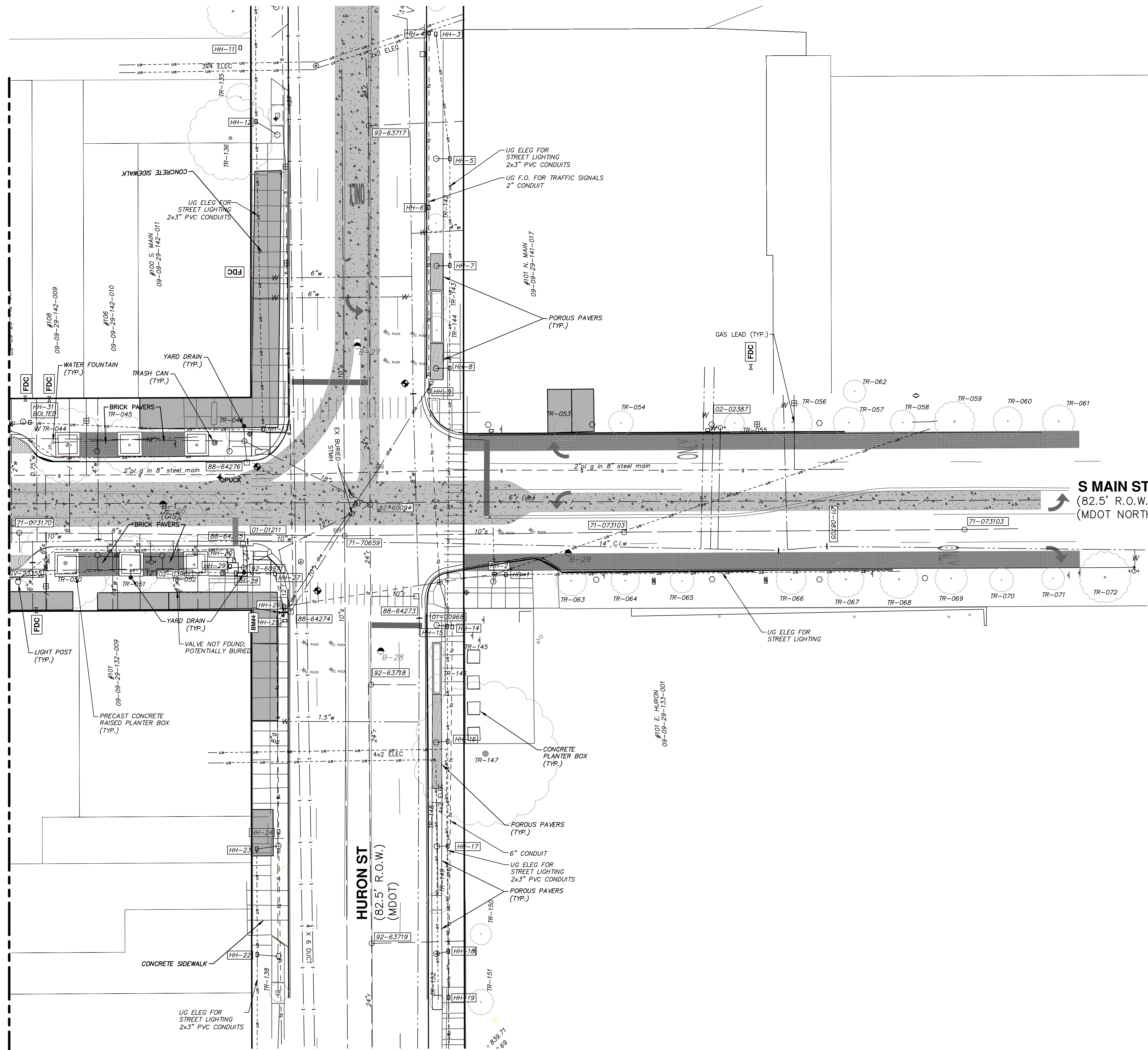
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EXISTING CONDITIONS STA 11+00 TO STA 14+00

SCALE PLAN: 1"=20'
DRAWING No. 2020-038-11
SHEET No.

MATCH LINE STA 14+00
SEE SHEET 11



LEGEND

- EXISTING BUILDING VAULTS
- APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT

EXISTING STORM SEWER STRUCTURE TABLE

STRUCTURE	UTILITY STATION	INVERT ELEVATION, SIZE & DIRECTION	TOP OF CASTING ELEVATION	DEPTH (Feet)
88-64276	14+80	12" W -0.50	835.49	5.00
88-64275	15+00	12" E 835.08	836.75	4.70
88-64274	14+91	10" NW 831.63	835.63	4.00
88-64273	15+39	10" SW 828.68	835.61	6.93
92-63717	14+79	24" E 824.82 24" W 824.82 12" N 824.82	834.52	5.00
92-60095	14+79	12" E 832.59 6" W 832.59 18" NE 832.19 12" S 832.59	835.89	3.70
92-63719	15+22	24" W 830.12 24" E 830.12 6" N 830.62	837.82	5.00
92-63718	15+21	24" W 828.68 24" E 828.68	836.68	8.00
92-60094	15+23	12" SE 831.93 10" SE 828.53 18" SW 828.53 10" NE 828.53 24" E 827.53 24" W 827.13	835.93	8.80
92-60971	14+74	12" W 832.47 12" NW 832.47 6" E 832.47 12" S 832.47	836.16	3.69

EXISTING SANITARY SEWER STRUCTURE TABLE

STRUCTURE	STATION	RIM	DEPTH	INVERTS
71-073170	14+03.91	836.41	10.90	8" N 825.51 8" S 825.71
71-70659	0+01.74	835.91	12.30	10" E 823.61 10" W 823.61 10" N 823.91 8" S 823.91
71-073103	0+00.85	835.06	5.00	10" N 824.46 10" S 824.46 8" W 824.86

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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

EXISTING CONDITIONS STA 14+00 TO STA 17+60

SCALE PLAN: 1"=40'

DRAWING No. 2020-038-12

SHEET No. 12 OF 80

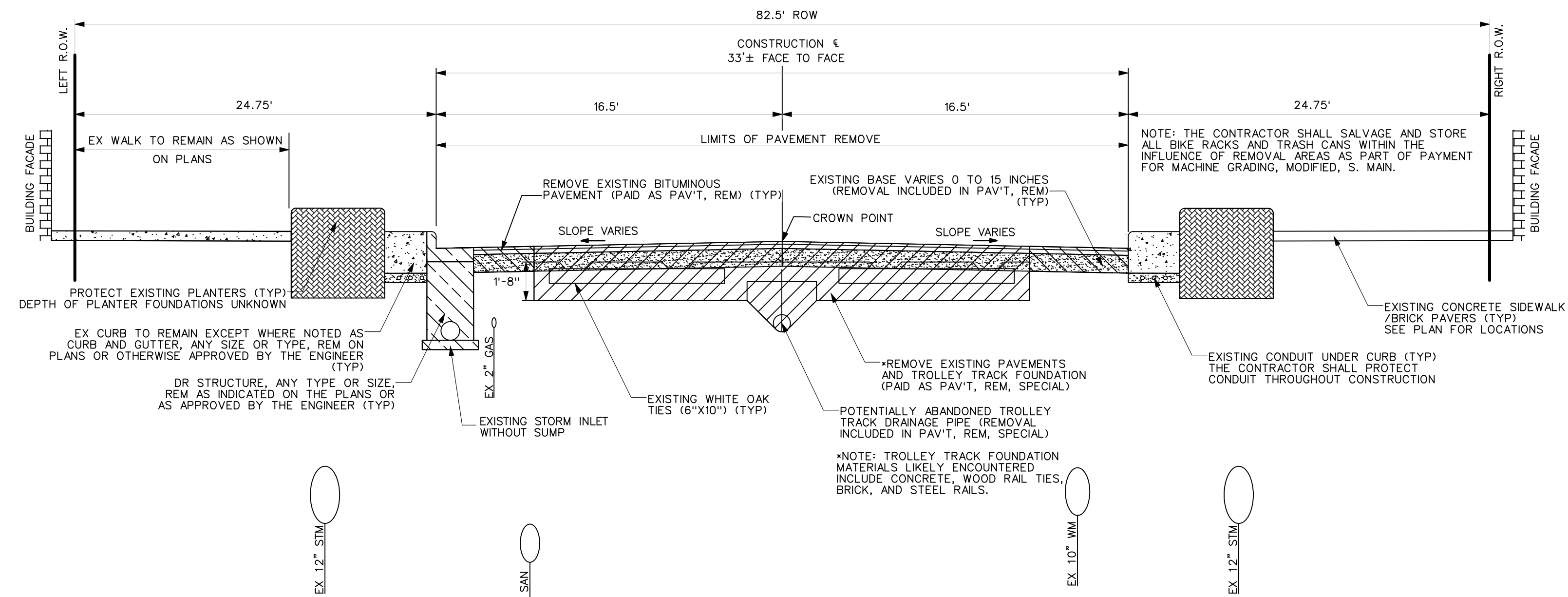
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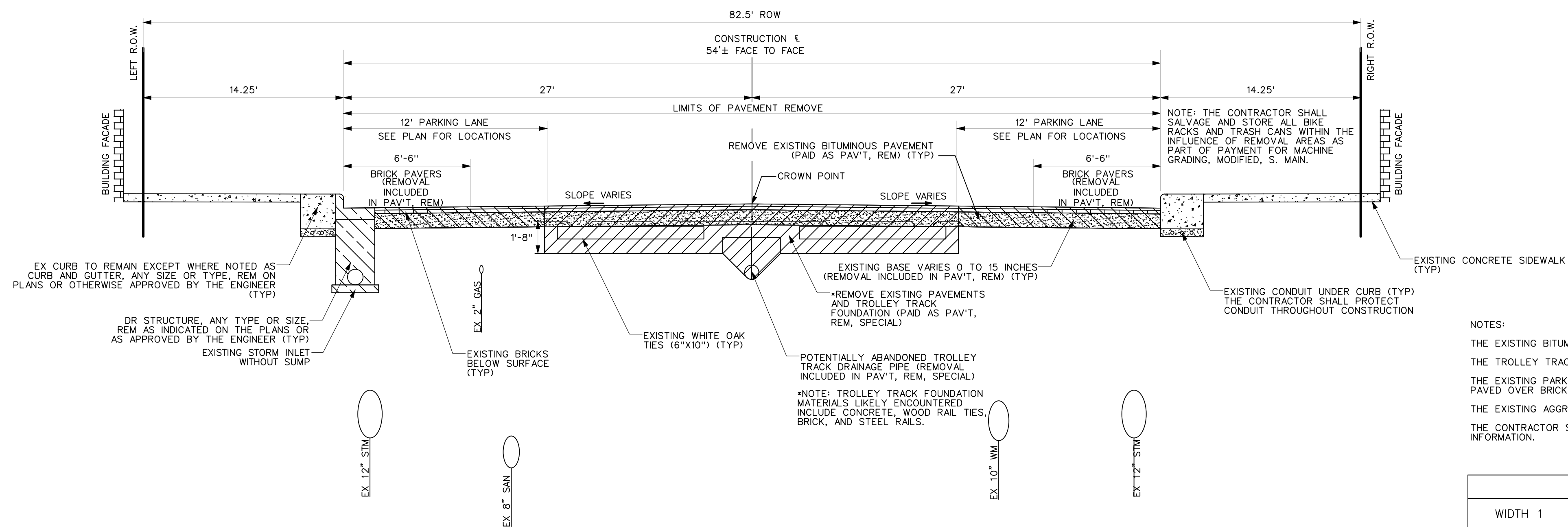
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C:\pw_work\g1092459\GTP-PLTS-Typicals.dwg Dwg Created: 20-Nov-22 - _a2 standard bw.stb - Plot Date: 20-Nov-22



EXISTING TYPICAL CROSS SECTION 33' FACE TO FACE
S MAIN STREET

STA 2+90.85 TO STA 3+66.89
 STA 4+99.64 TO STA 6+06.76
 STA 7+38.86 TO STA 9+56.68
 STA 10+67.58 TO STA 12+89.72
 STA 13+99.85 TO STA 14+75.95
 NOT TO SCALE

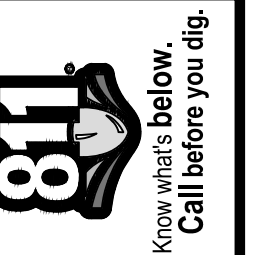


EXISTING TYPICAL CROSS SECTION 54' FACE TO FACE
S MAIN STREET

STA 3+84.68 TO STA 4+77.51
 STA 6+24.46 TO STA 7+18.97
 STA 9+75.23 TO STA 10+49.98
 STA 13+10.40 TO STA 13+77.09
 NOT TO SCALE

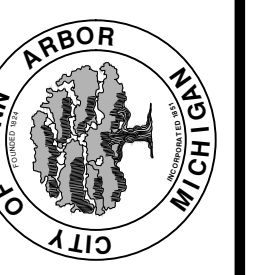
NOTES:
 THE EXISTING BITUMINOUS PAVEMENT THICKNESS VARIES FROM 3" TO 8.25"
 THE TROLLEY TRACK BASE THICKNESS VARIES FROM 7" TO 18".
 THE EXISTING PARKING AREA HMA OVERLAY THICKNESS VARIES FROM 1" TO 12" AND IS PAVED OVER BRICKS AND SAND.
 THE EXISTING AGGREGATE BASE THICKNESS VARIES FROM 0" TO 15".
 THE CONTRACTOR SHALL REVIEW SHEET 15 FOR PAVEMENT CORE AND BORING INFORMATION.

WIDTH TRANSITIONS			
WIDTH 1	WIDTH 2	BEGINNING STATION	ENDING STATION
33 FEET	54 FEET	3+66.89	3+84.68
54 FEET	33 FEET	4+77.51	4+99.64
33 FEET	54 FEET	6+6.76	6+24.46
54 FEET	33 FEET	7+18.97	7+38.86
33 FEET	54 FEET	9+56.68	9+75.23
54 FEET	33 FEET	10+49.98	10+67.58
33 FEET	54 FEET	12+89.72	13+10.40
54 FEET	33 FEET	13+77.09	13+99.85



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

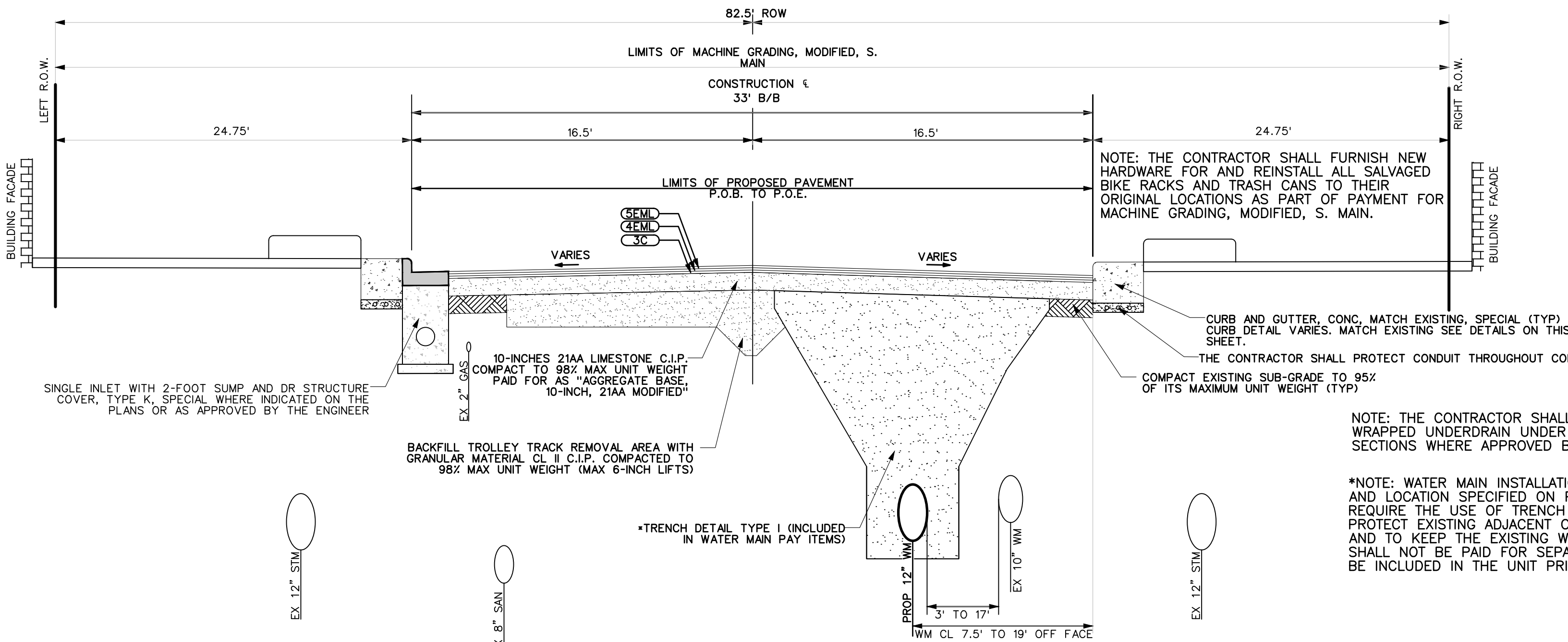
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 EXISTING TYPICALS

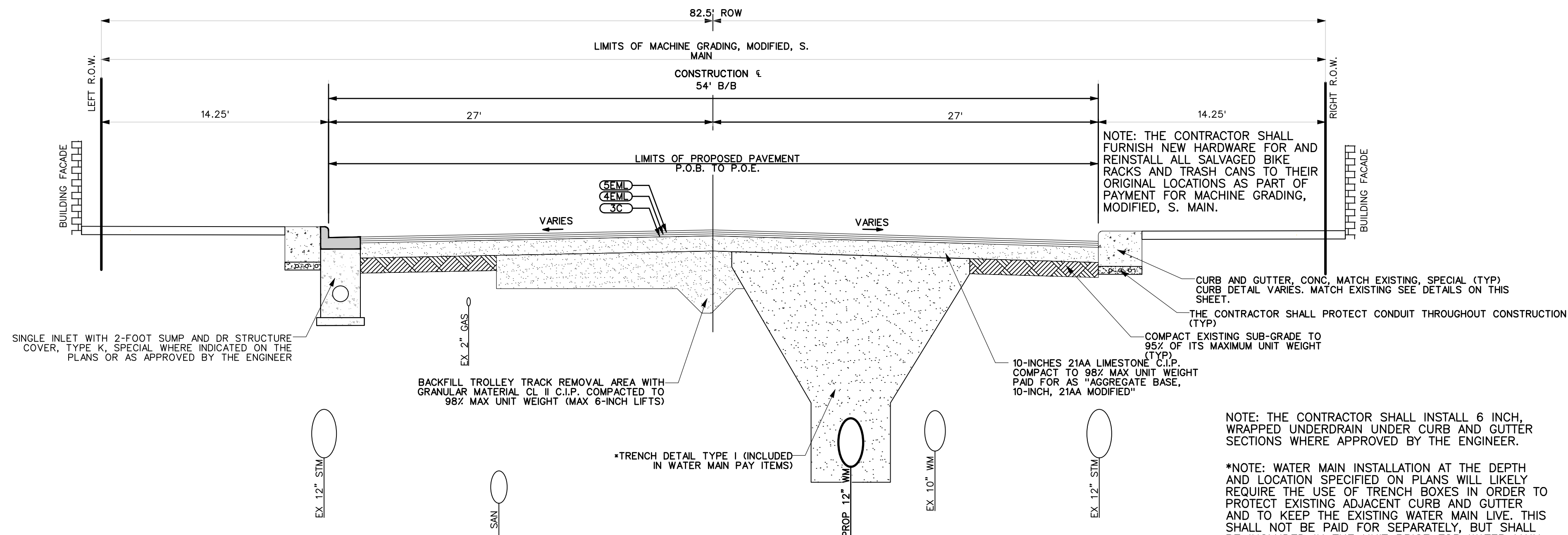
SCALE PLAN: NOT TO SCALE
 DRAWING No. 2020-038-13

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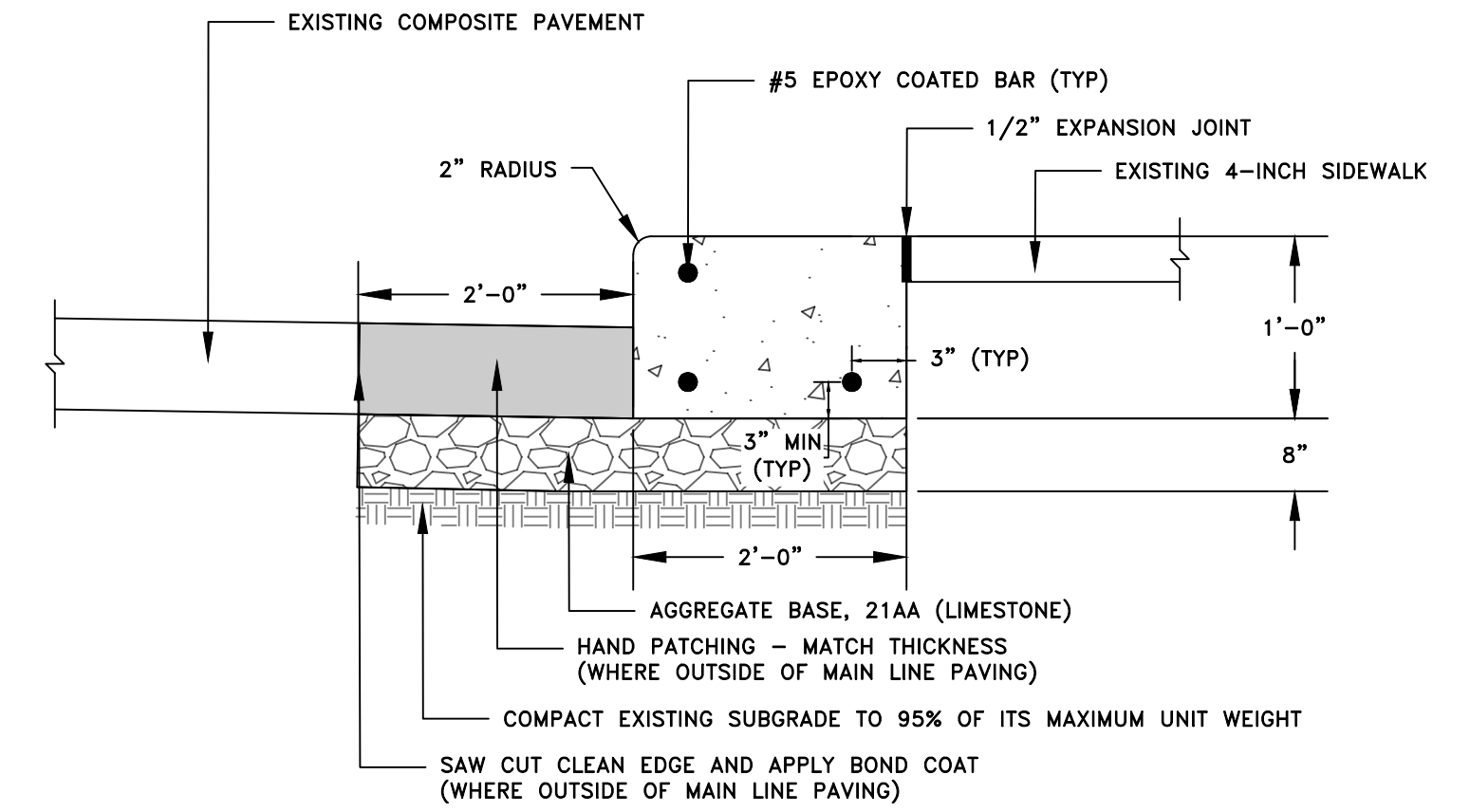
**PROPOSED TYPICAL CROSS SECTION
S MAIN STREET**

STA 2+90.85 TO STA 3+66.89
 STA 4+99.64 TO STA 6+06.76
 STA 7+38.86 TO STA 9+56.68
 STA 10+67.58 TO STA 12+89.72
 STA 13+99.85 TO STA 14+75.95
 NOT TO SCALE



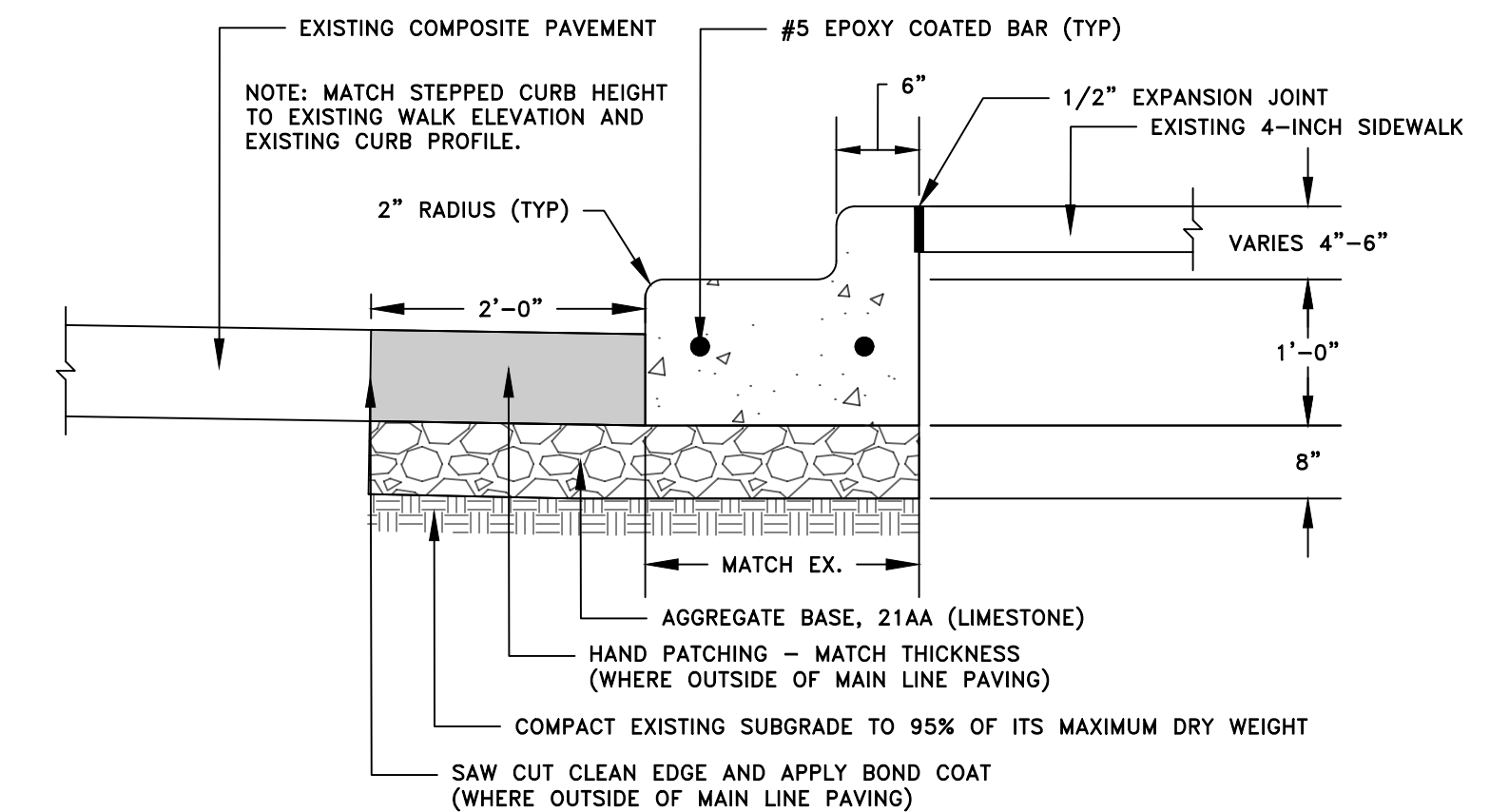
**PROPOSED TYPICAL CROSS SECTION
S MAIN STREET**

STA 3+84.68 TO STA 4+77.51
 STA 6+24.46 TO STA 7+18.97
 STA 9+75.23 TO STA 10+49.98
 STA 13+10.40 TO STA 13+77.09
 NOT TO SCALE



**CURB DETAIL 1
NOT TO SCALE**

NOTE: CURB DETAIL 1 REPRESENTS THE EXISTING CURB BASED ON THE BEST INFORMATION AVAILABLE FROM RECORD DRAWINGS.



**CURB DETAIL 2
NOT TO SCALE**

NOTE: CURB DETAIL 2 REPRESENTS THE EXISTING CURB AND GUTTER BASED ON THE BEST INFORMATION AVAILABLE FROM RECORD DRAWINGS.

WIDTH TRANSITIONS			
WIDTH 1	WIDTH 2	BEGINNING STATION	ENDING STATION
33 FEET	54 FEET	3+66.89	3+84.68
54 FEET	33 FEET	4+77.51	4+99.64
33 FEET	54 FEET	6+6.76	6+24.46
54 FEET	33 FEET	7+18.97	7+38.86
33 FEET	54 FEET	9+56.68	9+75.23
54 FEET	33 FEET	10+49.98	10+67.58
33 FEET	54 FEET	12+89.72	13+10.40
54 FEET	33 FEET	13+77.09	13+99.85

STREET NAME	PAY ITEM	HMA MIX	APPLICATION RATE	EST. THICKNESS	PERF GRADE	AWI (MIN)
S. MAIN ST	HMA, 5EML	5EML (TOP)	220 LB/SYD	2"	PG 70-28P	260
S. MAIN ST	HMA, 4EML	4EML (LEVELING)	220 LB/SYD	2"	PG 70-28P	-
S. MAIN ST	HMA, 3C	3C (BASE)	330 LB/SYD	3"	PG 70-28P	-
S. MAIN ST	HAND PATCHING	5EML	110 LB/IN/SYD	VARIES	PG 70-28P	-

HMA APPLICATION ESTIMATE

Start Station	End Station	Left Lane	Right Lane	Notes
POB	3+75	2.5%	1.5%	
3+75	4+75	2.5% - 4.0%	1.5% - 2.5%	Transition lane slope to match catch basins
4+75	5+00	4.0% - 2.5%	2.5% - 2.0%	Transition lane slopes
5+00	6+25	2.5%	2.0%	
6+25	7+25	2.5% - 3.0%	2.0% - 2.5%	Transition lane slope to match catch basins
7+25	7+50	3.0% - 2.5%	2.5% - 2.0%	Transition lane slopes
7+25	14+75	2.5%	2.0%	

PROPOSED CROSS SLOPE TABLE



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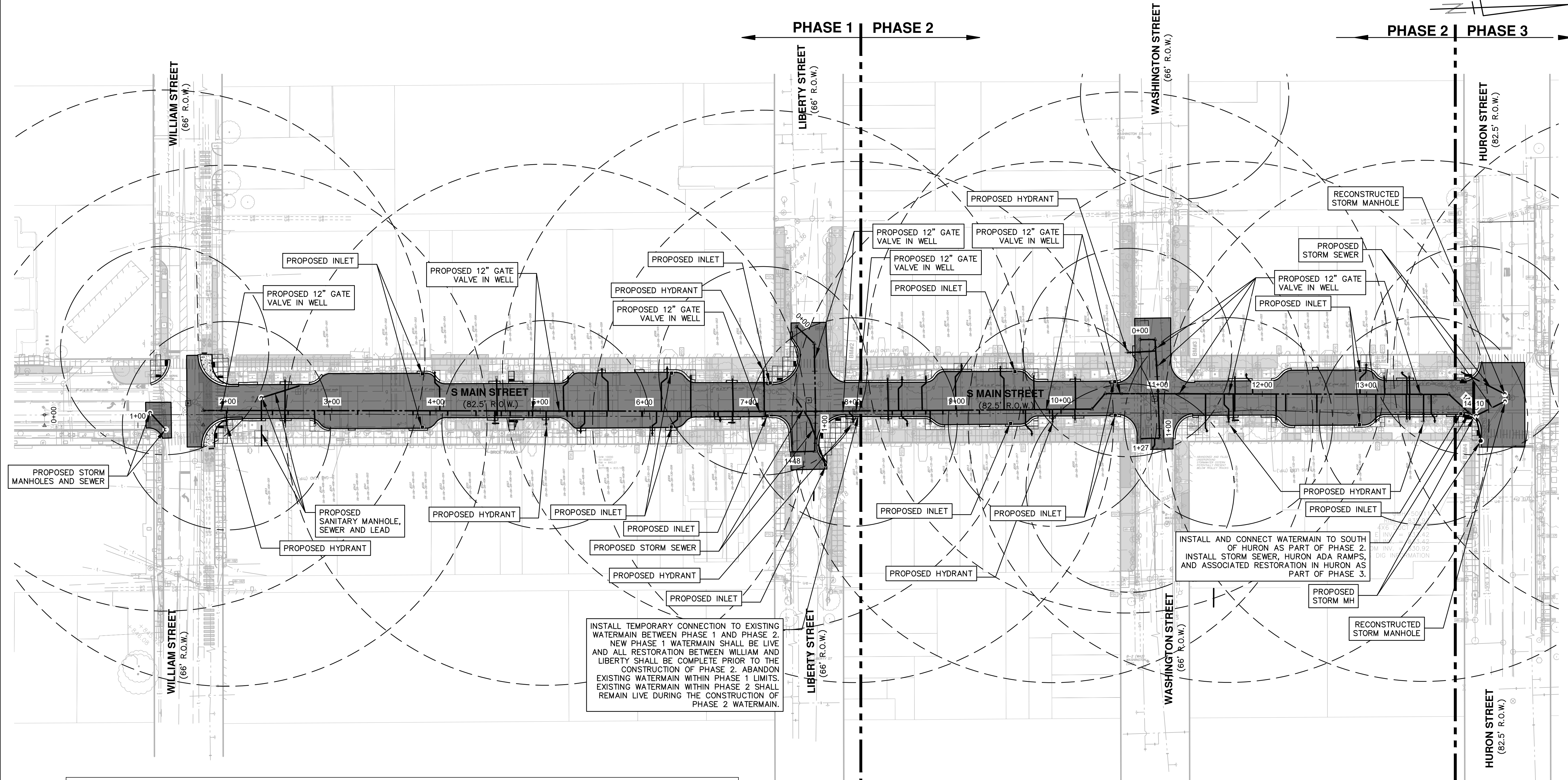


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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
 PROPOSED TYPICALS

SCALE PLAN: NOT TO SCALE
 DRAWING NO: 2020-038-14

SHEET No.

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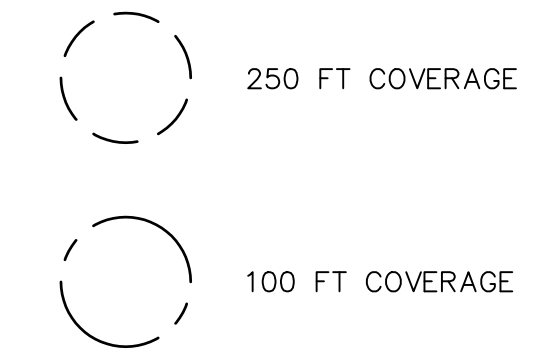
INSTALL TEMPORARY CONNECTION TO EXISTING WATERMAIN BETWEEN PHASE 1 AND PHASE 2. NEW PHASE 1 WATERMAIN SHALL BE LIVE AND ALL RESTORATION BETWEEN WILLIAM AND LIBERTY SHALL BE COMPLETE PRIOR TO THE CONSTRUCTION OF PHASE 2. ABANDON EXISTING WATERMAIN WITHIN PHASE 1 LIMITS. EXISTING WATERMAIN WITHIN PHASE 2 SHALL REMAIN LIVE DURING THE CONSTRUCTION OF PHASE 2 WATERMAIN.

INSTALL AND CONNECT WATERMAIN TO SOUTH OF HURON AS PART OF PHASE 2. INSTALL STORM SEWER, HURON ADA RAMP, AND ASSOCIATED RESTORATION IN HURON AS PART OF PHASE 3.

SOIL BORING INFORMATION

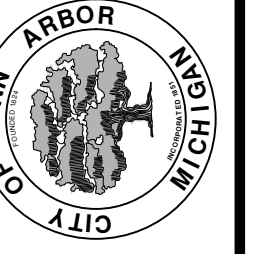
B-1	TROLLEY 7" HMA 7" GRAVEL & WOOD 3" GRAVEL/COBBLE	B-8	BRICK 1.5" HMA 4" BRICK 3" SAND/GRAVEL	B-15	7.5" HMA 4" AGGREGATE BASE	B-23	8.25" HMA 5" AGGREGATE BASE
B-2	4.5" HMA 10" AGGREGATE BASE	B-9	TROLLEY 6.75" HMA 17.25" CONCRETE	B-16	TROLLEY 6.5" HMA 7" CONCRETE	B-24	1" HMA 4" BRICK 7" AGGREGATE BASE
B-3	TROLLEY 8" HMA 16" CONCRETE	B-10	TROLLEY 3" HMA 16" CONCRETE	B-17	TROLLEY 6" HMA 18" CONCRETE	B-25	TROLLEY 8.25" HMA 12" CONCRETE
B-4	TROLLEY 8.25" HMA 15.5" CONCRETE	B-11	7" HMA NO BASE	B-18	8" HMA 4" AGGREGATE BASE	B-26	TROLLEY 7.5" HMA 15.5" CONCRETE
B-5	12" HMA NO AGGREGATE BASE	B-12	5" HMA 15" AGGREGATE BASE	B-19	10" HMA NO BASE	B-27	6" HMA 12" AGGREGATE BASE
B-6	6.5" HMA 13" CONCRETE	B-13	6.5" HMA 6" AGGREGATE BASE	B-20	10" HMA 8" AGGREGATE BASE	B-28	8.5" HMA 3.5" AGGREGATE BASE
B-7	9.5" HMA NO AGGREGATE BASE	B-14	TROLLEY 5.75" HMA 17.5" CONCRETE	B-21	TROLLEY 6.75" HMA 16.75" CONCRETE	B-29	6.5" HMA 6" AGGREGATE BASE
		B-22	6" HMA 8" AGGREGATE BASE				

LEGEND



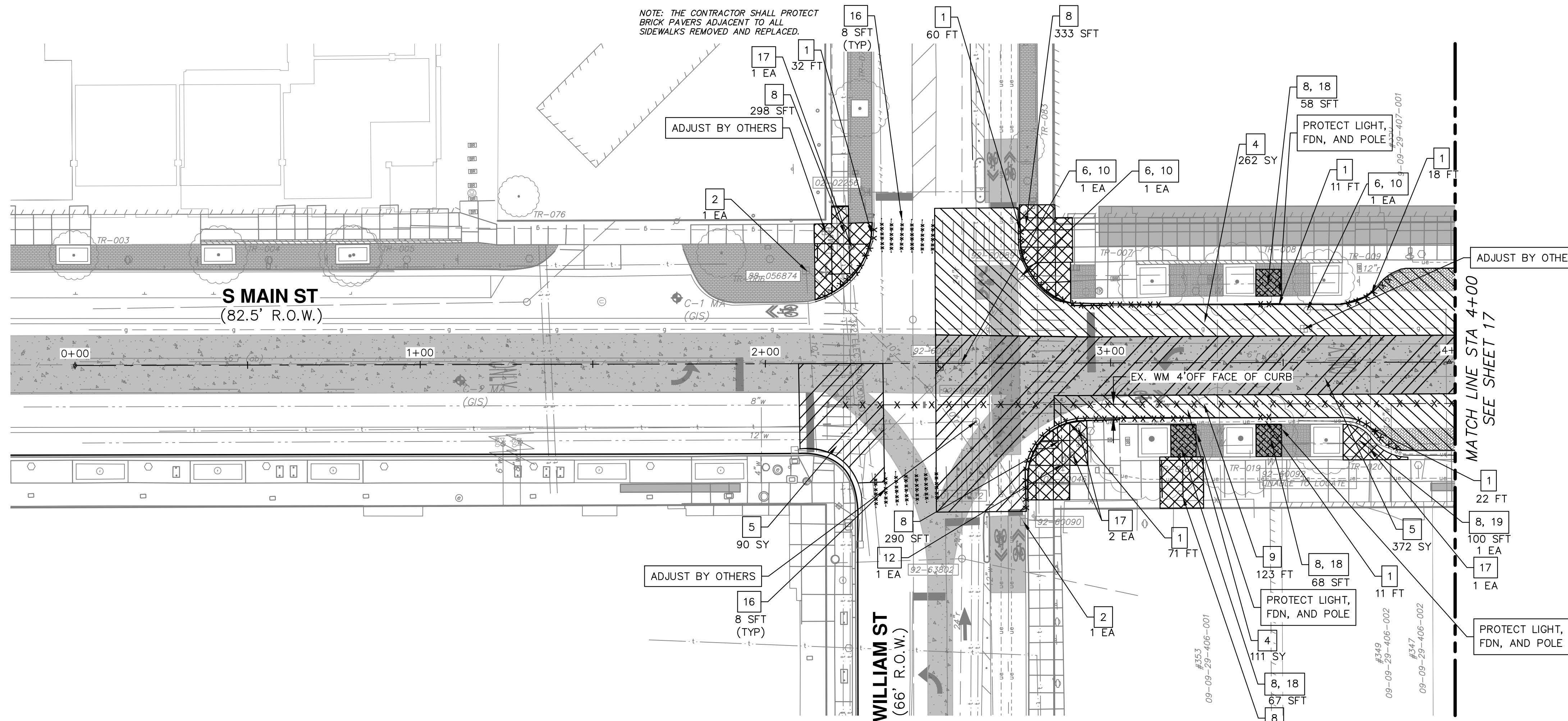
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT
OVERALL PLAN

SCALE 1"=50'
DRAWING No. 2020-038-15
SHEET No.



NOTE: THE CONTRACTOR SHALL PROTECT BRICK PAVERS ADJACENT TO ALL SIDEWALKS REMOVED AND REPLACED.

ADJUST BY OTHERS

ADJUST BY OTHERS

ADJUST BY OTHERS

PROTECT LIGHT, FDN, AND POLE

SOIL EROSION NOTES

- STREETS EXTERNAL TO THE PROJECT AREA SHALL BE MONITORED FOR TRACKED MUD AND/OR CONSTRUCTION DEBRIS AND SHALL BE IMMEDIATELY CLEANED FOLLOWING ANY SUCH OCCURRENCE.

SOIL EROSION SEQUENCE OF CONSTRUCTION*

- PLACE INLET FILTERS ON EXISTING DRAINAGE FEATURES THAT WILL REMAIN IN PLACE AFTER CONSTRUCTION BEGINS.
- INSTALL WATER MAIN AND PAVEMENT IMPROVEMENTS.
- RESTORE ALL DISTURBED AREAS TO A CONDITION THAT IS BETTER THAN, OR EQUAL TO, THAT WHICH EXISTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- INSPECT & REPAIR OR REPLACE ALL TEMPORARY SESC MEASURES WEEKLY AND WITHIN 24 HOURS OF A STORM EVENT.
- CLEAN OUT STORM SEWER SYSTEMS.
- REMOVE TEMPORARY SESC FEATURES (CALL FOR FINAL INSPECTION).
- REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY'S SESC OFFICIAL.

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NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

LEGEND

- x x x x x -	CURB AND GUTTER, ANY TYPE OR SIZE, REM
x x x x x	UTILITY REMOVAL OR ABANDON
	PAVEMENT REMOVE
	PAVEMENT REMOVE SPECIAL
	SIDEWALK REMOVE

LEGEND

	EXISTING BUILDING VAULTS
	EXISTING TROLLEY TRACK FOUNDATION AREA
	EXISTING BRICK PAVER AREA
	EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT

REMOVAL KEY

KEY	DESCRIPTION
1	CURB AND GUTTER, ANY TYPE OR SIZE, REM
2	EROSION CONTROL, INLET FILTER
3	PARKING METER, REM
4	PAV'T, REM*
5	PAV'T, REM, SPECIAL*
6	ADJUST MONUMENT BOX, GATE VALVE BOX OR STRUCTURE COVER
7	DR STRUCTURE, ANY SIZE OR DEPTH, REM
8	SIDEWALK AND RAMPS, REM
9	WATER MAIN, ABANDON W/ FLOWABLE FILL
10	DR STRUCTURE COVER, TYPE Q, SPECIAL
11	DR STRUCTURE COVER, TYPE K, SPECIAL
12	FIRE HYDRANT REMOVE
13	GATE VALVE-IN-BOX, ABANDON
14	GATE VALVE-IN-WELL, ABANDON
15	SEWER, ANY SIZE OR DEPTH, REM
16	REM SPEC MRKG
17	HH, ADJ
18	BRICK PAVERS, REM, SORT AND SALV
19	WATER FOUNTAIN, SALV, REM

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

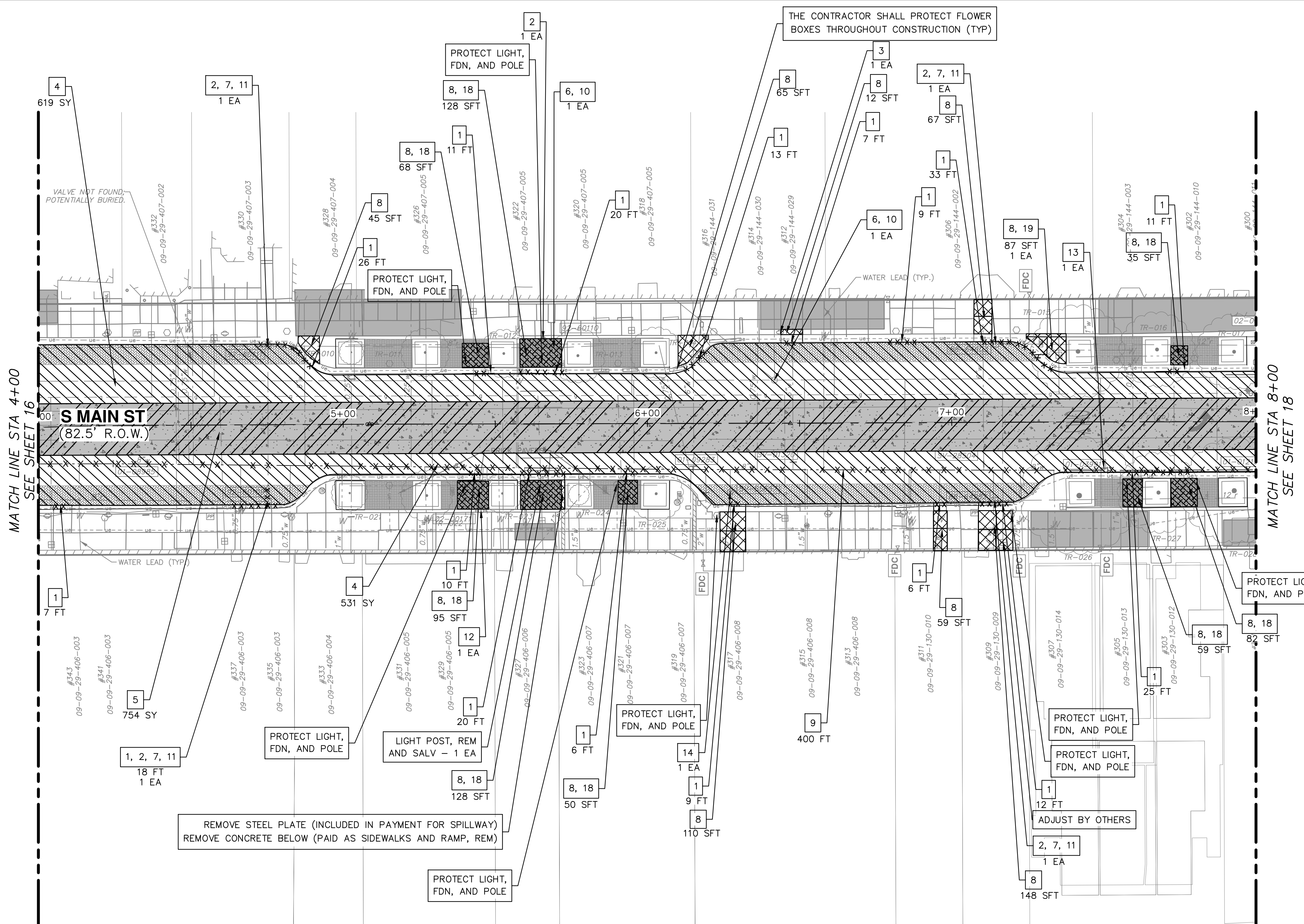


CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1647
www.a3gov.org



S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
REMOVAL-SESC STA 0+00 TO STA 4+00

SCALE PLAN: 1"=20'
DRAWING No. 2020-038-16



LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT

REMOVAL KEY

KEY	DESCRIPTION
1	CURB AND GUTTER, ANY TYPE OR SIZE, REM
2	EROSION CONTROL, INLET FILTER
3	PARKING METER, REM
4	PAV'T, REM*
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17	HH, ADJ
18	BRICK PAVERS, REM, SORT AND SALV
19	WATER FOUNTAIN, SALV, REM

SOIL EROSION SEQUENCE OF CONSTRUCTION*

- 1: PLACE INLET FILTERS ON EXISTING DRAINAGE FEATURES THAT WILL REMAIN IN PLACE AFTER CONSTRUCTION BEGINS.
- 2: INSTALL WATER MAIN AND PAVEMENT IMPROVEMENTS.
- 3: RESTORE ALL DISTURBED AREAS TO A CONDITION THAT IS BETTER THAN, OR EQUAL TO, THAT WHICH EXISTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 4: INSPECT & REPAIR OR REPLACE ALL TEMPORARY SESC MEASURES WEEKLY AND WITHIN 24 HOURS OF A STORM EVENT.
- 5: CLEAN OUT STORM SEWER SYSTEMS.
- 6: REMOVE TEMPORARY SESC FEATURES (CALL FOR FINAL INSPECTION).
- 7: REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY'S SESC OFFICIAL.

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SOIL EROSION NOTES

- 1: STREETS EXTERNAL TO THE PROJECT AREA SHALL BE MONITORED FOR TRACKED MUD AND/OR CONSTRUCTION DEBRIS AND SHALL BE IMMEDIATELY CLEANED FOLLOWING ANY SUCH OCCURRENCE.

NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

LEGEND

- x x x x x - CURB AND GUTTER, ANY TYPE OR SIZE, REM
- x x x x x - UTILITY REMOVAL OR ABANDON
- PAVEMENT REMOVE
- PAVEMENT REMOVE SPECIAL
- SIDEWALK REMOVE

*SAWCUT FULL DEPTH AT REMOVAL LIMITS

Know what's below. Call before you dig.

REV.	DATE	DESCRIPTION	CHECKED	DRAWN

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

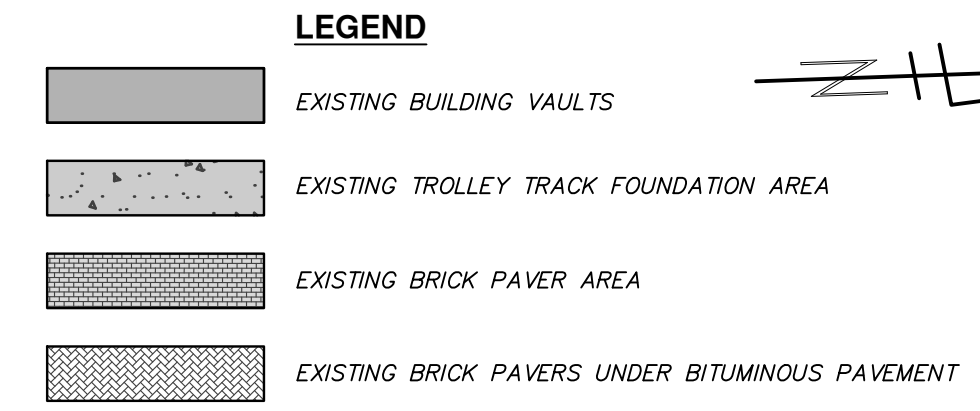
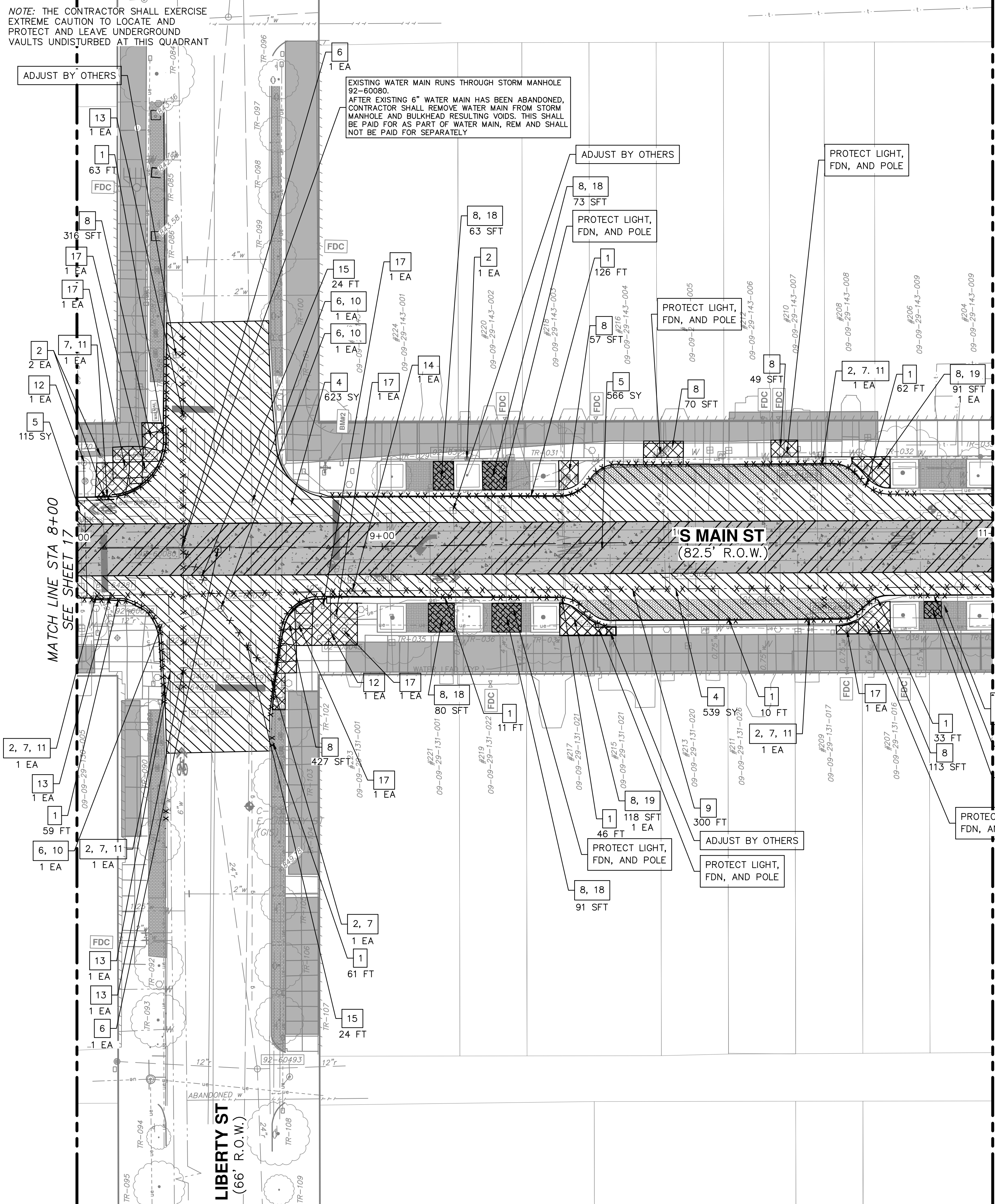
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

REMOVAL-SESC STA 4+00 TO STA 8+00

SCALE:

DRAWING No. 2020-038-17

SHEET No. 17 OF 80



REMOVAL KEY

KEY	DESCRIPTION
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1	CURB AND GUTTER, ANY TYPE OR SIZE, REM
2	EROSION CONTROL, INLET FILTER
3	PARKING METER, REM
4	PAV'T, REM*
5	PAV'T, REM, SPECIAL*
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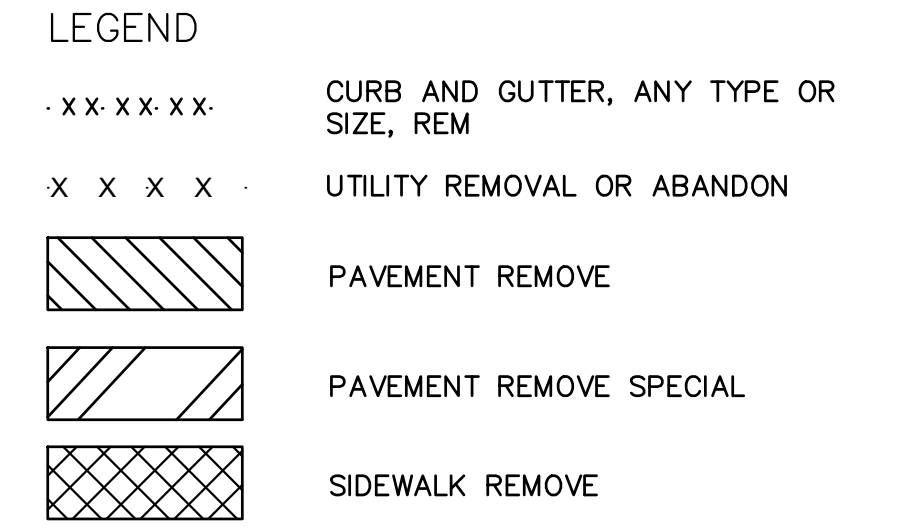
SOIL EROSION SEQUENCE OF CONSTRUCTION*

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NOTE: THE CONTRACTOR SHALL TAKE CAUTION WHILE EXCAVATING AND INSTALLING LEAD IN PROXIMITY TO EXISTING UNDERGROUND BUILDING VAULTS. PROTECT EXISTING VAULT. CONNECT TO EXISTING WATER SERVICE OUTSIDE EXISTING VAULT WALL.



*SAWCUT FULL DEPTH AT REMOVAL LIMITS

811
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
REMOVAL-SESC STA 8+00 TO STA 11+00

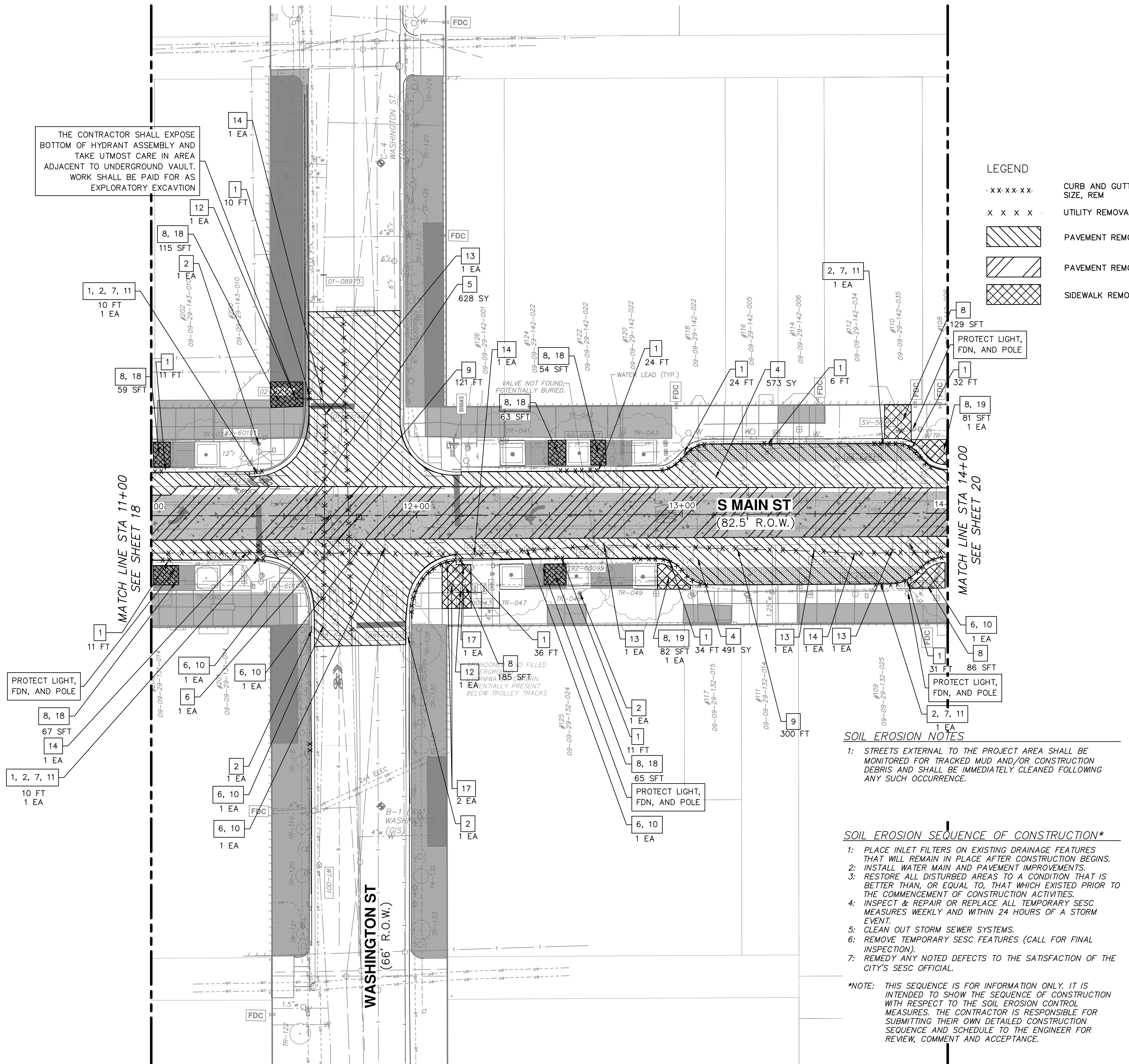
SCALE PLAN: 1"=40'

DRAWING No. 2020-038-18

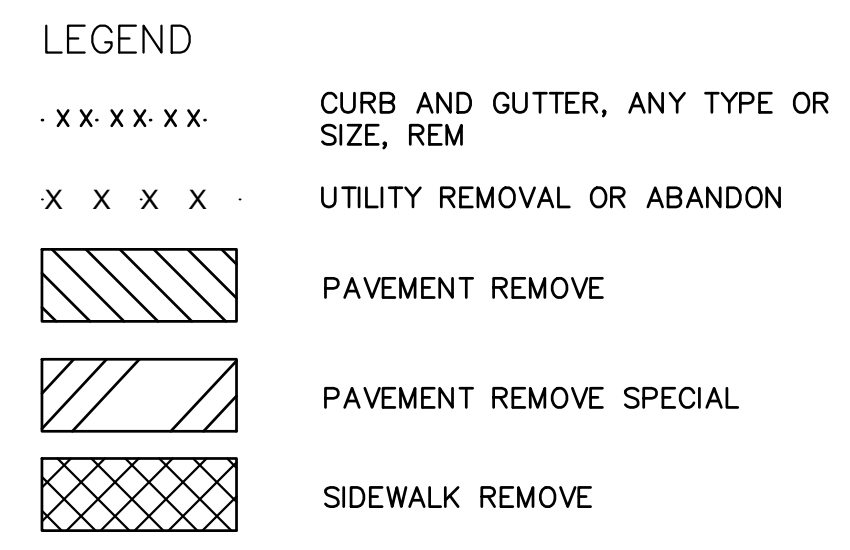
SHEET No.

18 OF 80

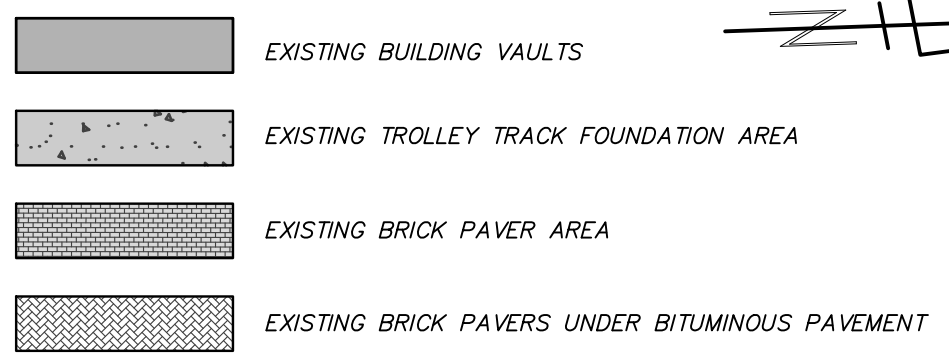
C:\pw_work\g1092459\CRS-PLTS-REMOVAL-SESC Main.dwg Dwg Created: 20-Nov-22 - _o2 standard bw.stb - Plot Date: 21-Nov-22



THE CONTRACTOR SHALL EXPOSE BOTTOM OF HYDRANT ASSEMBLY AND TAKE UTMOST CARE IN AREA ADJACENT TO UNDERGROUND VAULT. WORK SHALL BE PAID FOR AS EXPLORATORY EXCAVATION



LEGEND



REMOVAL KEY

KEY	DESCRIPTION
1	CUREB AND GUTTER, ANY TYPE OR SIZE, REM
2	EROSION CONTROL, INLET FILTER
3	PARKING METER, REM
4	PAV'T, REM*
5	PAV'T, REM, SPECIAL*
6	ADJUST MONUMENT BOX, GATE VALVE BOX OR STRUCTURE COVER
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SOIL EROSION NOTES

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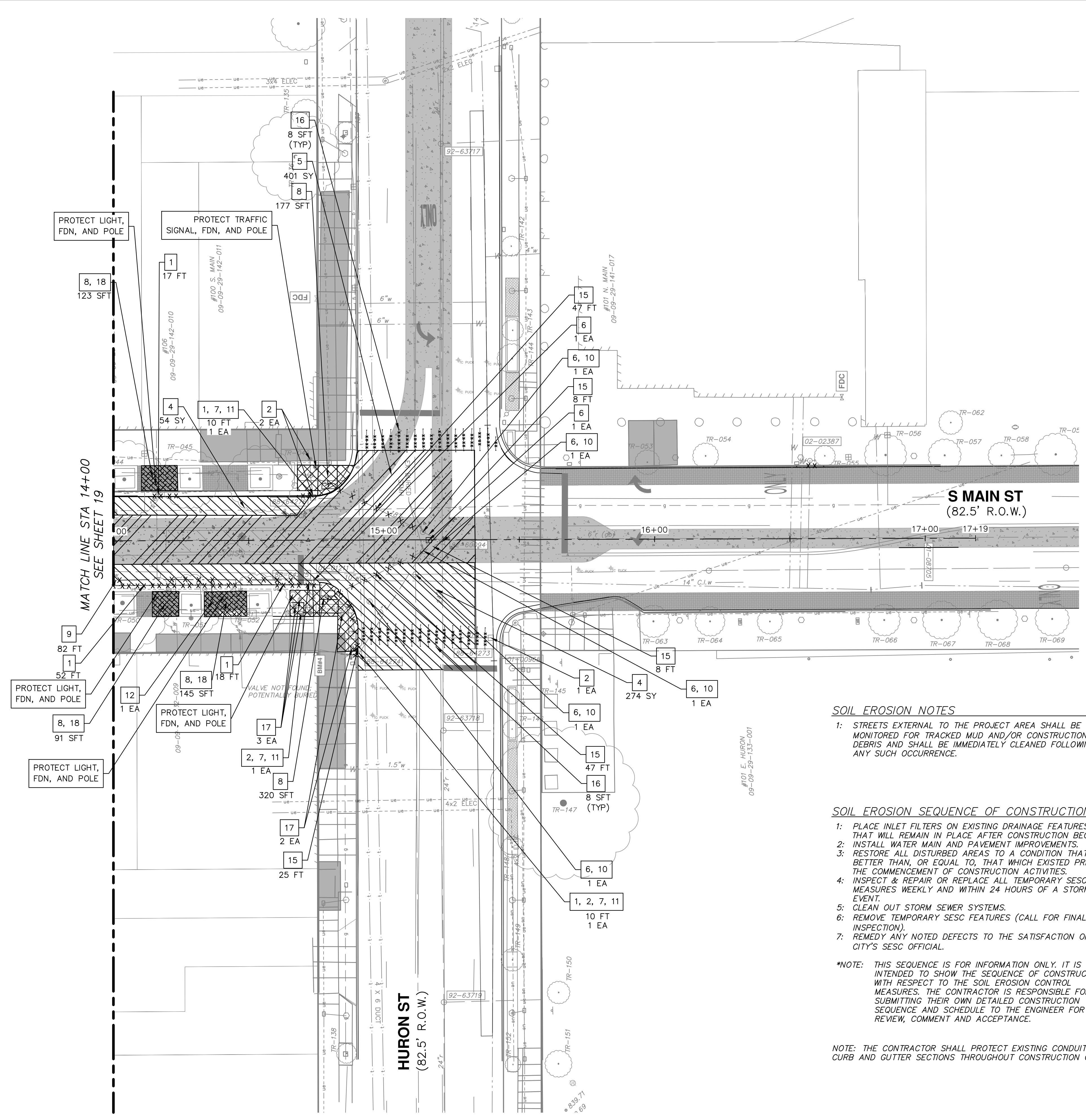
NO.	DATE	DESCRIPTION	REV.	CHECKED	DRAWN

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
REMOVAL-SESC STA 11+00 TO STA 14+00

SCALE PLAN: 1"=30'
DRAWING NO. 2020-038-19
SHEET No.



LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- EXISTING BRICK PAVERS UNDER BITUMINOUS PAVEMENT

LEGEND

- CURB AND GUTTER, ANY TYPE OR SIZE, REM
- UTILITY REMOVAL OR ABANDON
- PAVEMENT REMOVE
- PAVEMENT REMOVE SPECIAL
- SIDEWALK REMOVE

REMOVAL KEY

KEY	DESCRIPTION
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SOIL EROSION NOTES

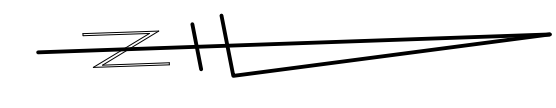
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

REMOVAL-SESC STA 14+00 TO STA 15+15.30

SCALE PLAN: 1"=80'

DRAWING No. 2020-038-20

SHEET No. 20 OF 80

811
Know what's below.
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REV.	DATE	DRAWN	CHECKED	DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a2gov.org

GENERAL
 NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
- EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
- ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
- RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO

EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.

- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLATIVE AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
- THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
- TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

- THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

- MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- INSTALL WATER MAINS, STORM SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING

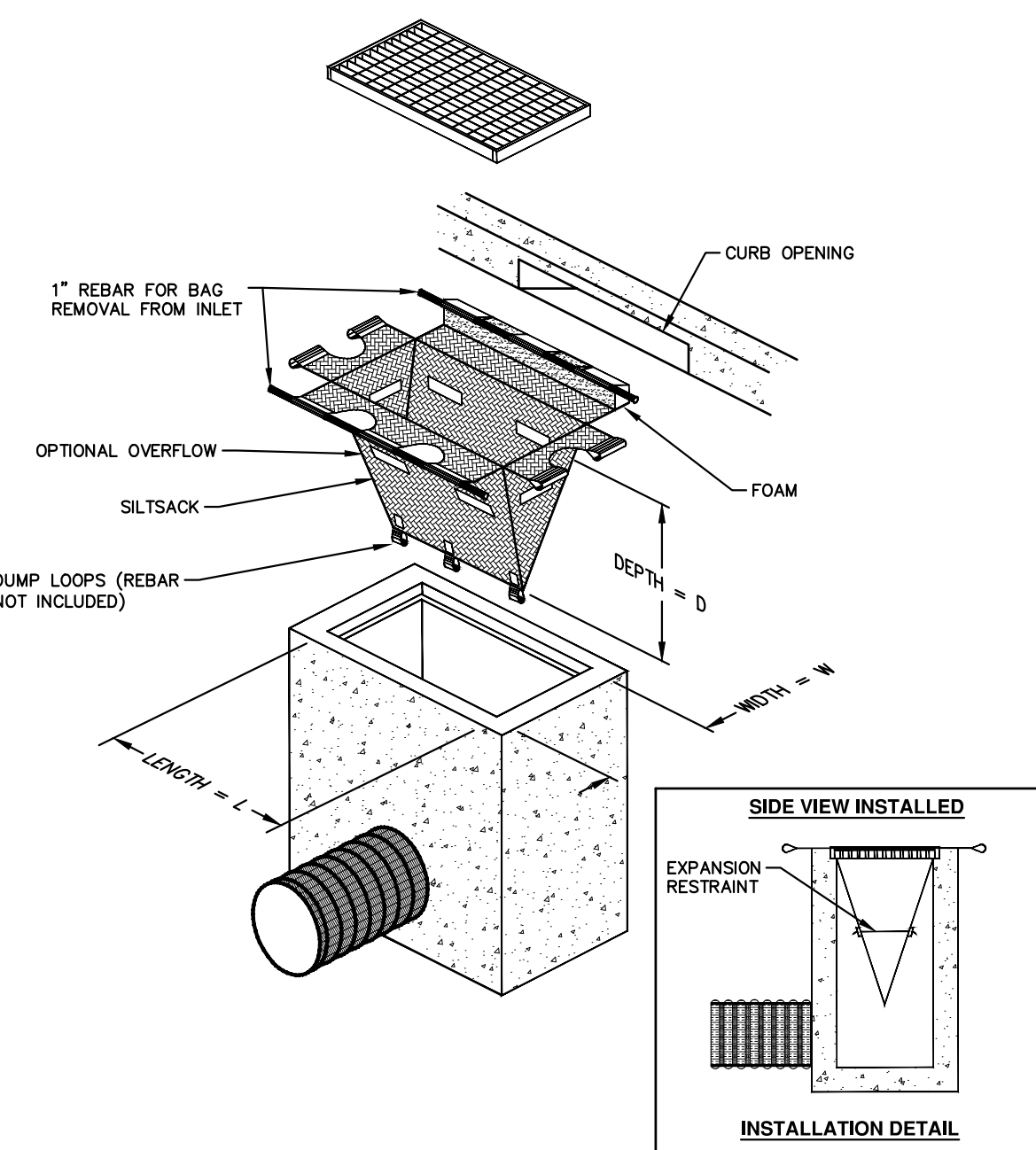
- INSTALLATION OF NEW DRAINAGE INLETS.
- PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
 - CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY..
 - CLEAN OUT STORM SEWER SYSTEMS.
 - REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
 - ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION

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ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:
 • F0B - FOX SANDY LOAM - IN UPLAND AREAS AND ON OUT WASH PLAINS, KAMES, VALLEY TRAINS, TERRACES, AND MORAINES. SLOPES ARE UNIFORM OR SHORT AND COMPLEX.

IMPERVIOUS PROJECT AREA
 46,208 ft² - WALK = 1.06 AC
 57,225 ft² - ROAD = 1.31 AC

TOTAL AREA OF PROPOSED DISTURBANCE = 2.37 AC
 1.31 AC - S MAIN ST
 1.06 AC - WALK



INLET FILTER DETAIL

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

HI-FLOW SILTSACK

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	285 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC-1

OIL-ABSORBANT SILTSACK

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

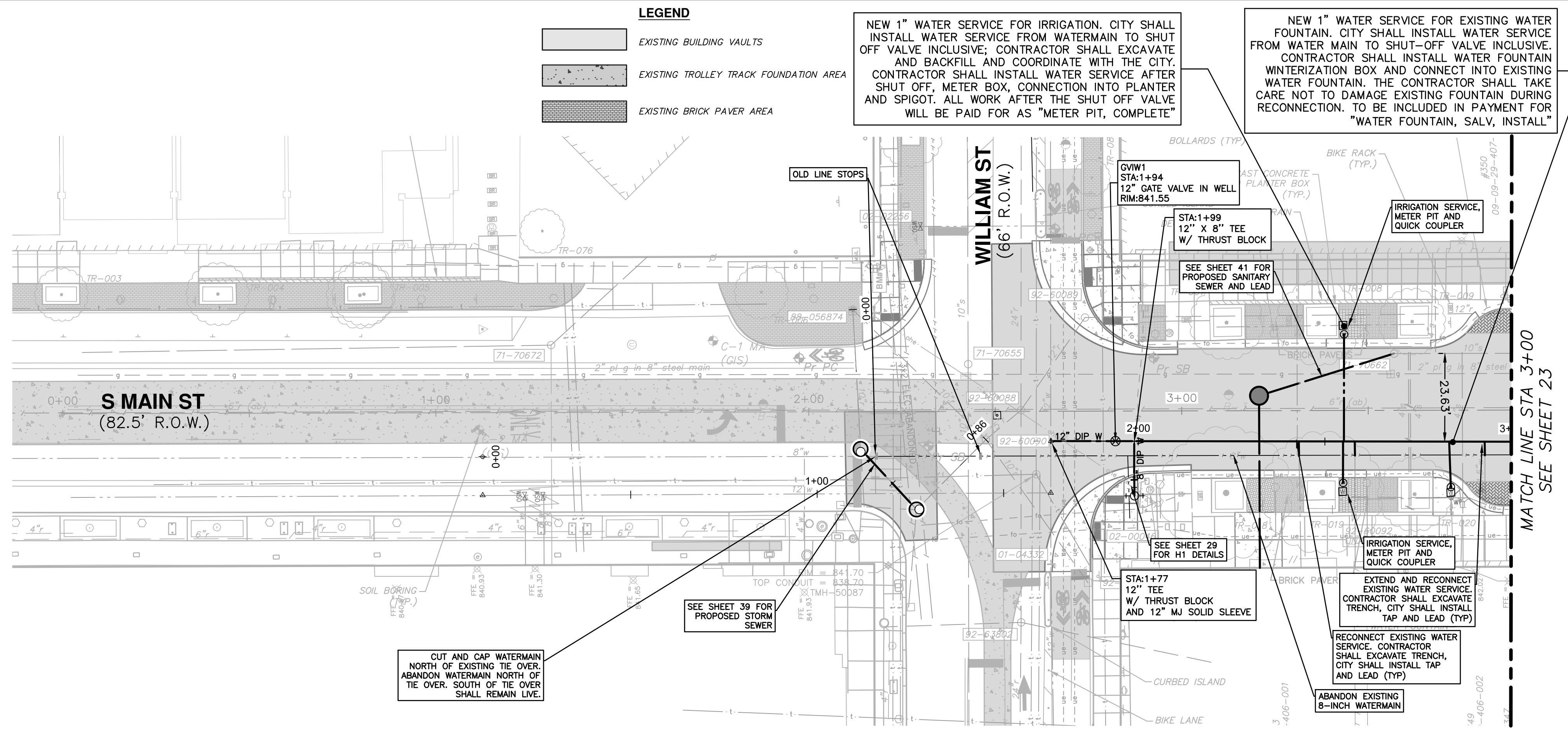
CITY OF ANN ARBOR
 PUBLIC SERVICES
 301 EAST HURON STREET
 ANN ARBOR, MI 48106-6647
 734-794-6410
 www.aagov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT
 SESC NOTES AND DETAILS

SCALE: NTS
 DRAWING No. 2020-038-21

C:\pwork\g1092459\CMM-PLTS-S Main WM.dwg Dwg Created: 20-Nov-22 --_a2 standard bw.stb -- Plot Date: 21-Nov-22



LEGEND

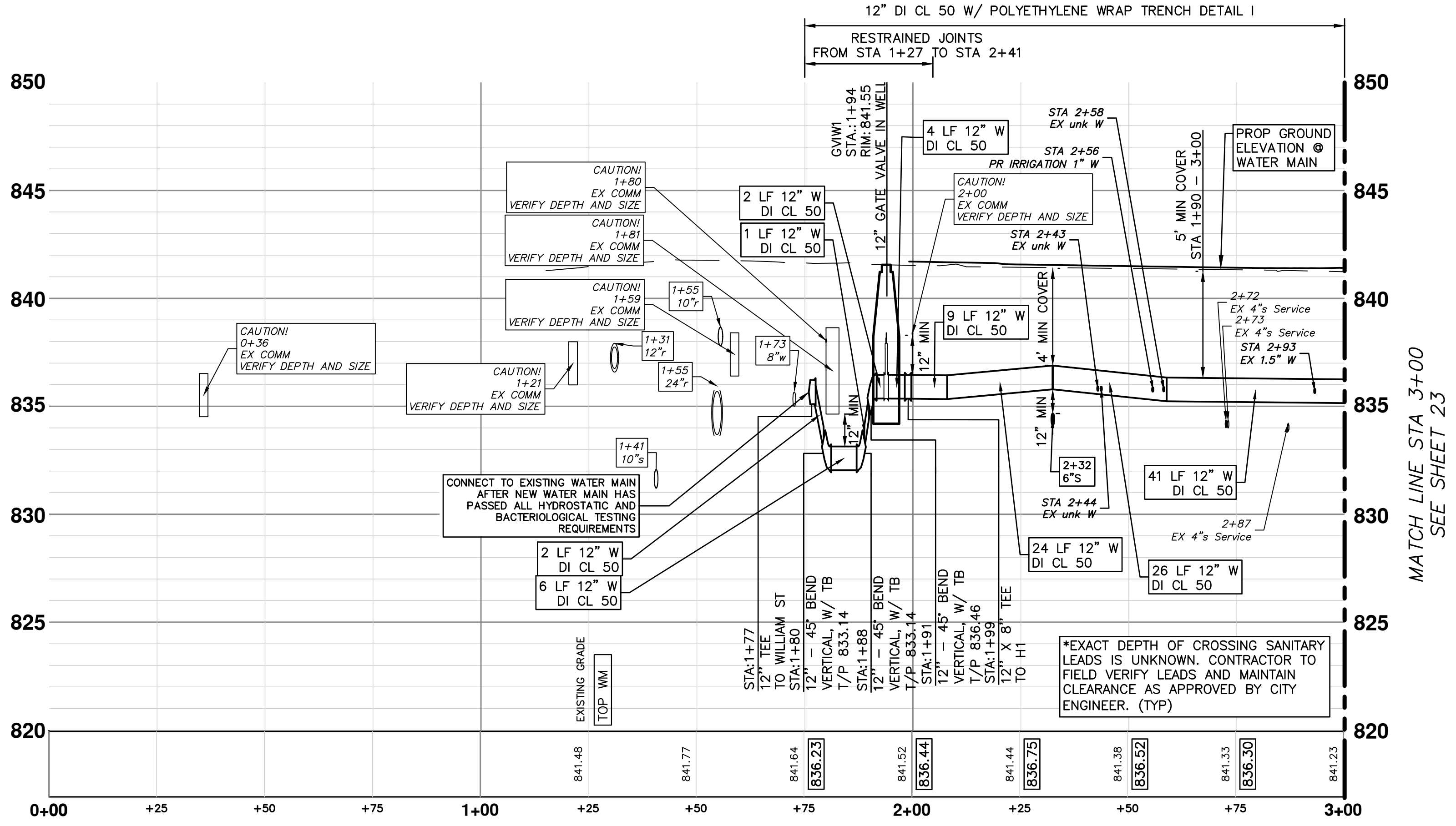
[Pattern]	EXISTING BUILDING VAULTS
[Pattern]	EXISTING TROLLEY TRACK FOUNDATION AREA
[Pattern]	EXISTING BRICK PAVER AREA

NEW 1" WATER SERVICE FOR IRRIGATION. CITY SHALL INSTALL WATER SERVICE FROM WATERMAIN TO SHUT OFF VALVE INCLUSIVE; CONTRACTOR SHALL EXCAVATE AND BACKFILL AND COORDINATE WITH THE CITY. CONTRACTOR SHALL INSTALL WATER SERVICE AFTER SHUT OFF, METER BOX, CONNECTION INTO PLANTER AND SPIGOT. ALL WORK AFTER THE SHUT OFF VALVE WILL BE PAID FOR AS "METER PIT, COMPLETE"

NEW 1" WATER SERVICE FOR EXISTING WATER FOUNTAIN. CITY SHALL INSTALL WATER SERVICE FROM WATER MAIN TO SHUT-OFF VALVE INCLUSIVE. CONTRACTOR SHALL INSTALL WATER FOUNTAIN WINTERIZATION BOX AND CONNECT INTO EXISTING WATER FOUNTAIN. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING FOUNTAIN DURING RECONNECTION. TO BE INCLUDED IN PAYMENT FOR "WATER FOUNTAIN, SALV, INSTALL"

NOTES

- DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
- THE CONTRACTOR SHALL BE AWARE THAT THE FOUNDATION/SUPPORTS FOR THE FORMER TROLLEY TRACKS EXTEND TO A VARIABLE DEPTH OF ABOUT 3'. THE LOCATIONS ARE REPRESENTED ON THE PLANS FROM THE BEST AVAILABLE INFORMATION. IF THESE FOUNDATIONS/SUPPORTS OR OLD TROLLEY TRACKS ARE ENCOUNTERED IN ANY LOCATION DURING THE PERFORMANCE OF THE WORK OF THE PROJECT, THE TRACKS, FOUNDATIONS/SUPPORTS, AND ANCILLARY MATERIALS MUST BE REMOVED FULL DEPTH IF THEY ARE CROSSED TRANSVERSELY AS PART OF THE PROJECT'S WORK. THIS WORK WILL BE PAID FOR AS "PAVT REM, SPECIAL."



TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK :EXPLORATORY EXCAVATION (0-10; DEEP)"(TRENCH DETAIL 1)

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTINGS IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

THE DEPTH AND SIZE OF ELECTRICAL, TELEPHONE AND FIBER OPTIC CONDUITS/DUCTS AND THE DEPTH OF GAS MAINS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY, SUPPORT AND PROTECT DURING CONSTRUCTION AND ADJUST WATER MAIN WHERE NECESSARY TO MAINTAIN 12-INCHES VERTICAL CLEARANCE FROM ALL UTILITIES (EXCEPT SANITARY AND STORM SEWER WHERE 18-INCHES IS REQUIRED). THIS WORK IS PAID FOR UNDER GENERAL CONDITIONS, MAX.

Existing Water Services

Address	Station	Size (in)
353	2+43	unknown
350	2+44	unknown
349	2+58	unknown
347	2+93	1.5

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVIW1	12" GVIW	1+94	841.55	6.70	Q

811
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

S MAIN ST PROPOSED WATER MAIN STA 0+00 TO STA 3+00

SCALE PLAN: 1"=80' PROFILE: 1"=5'

DRAWING No. 2020-038-22

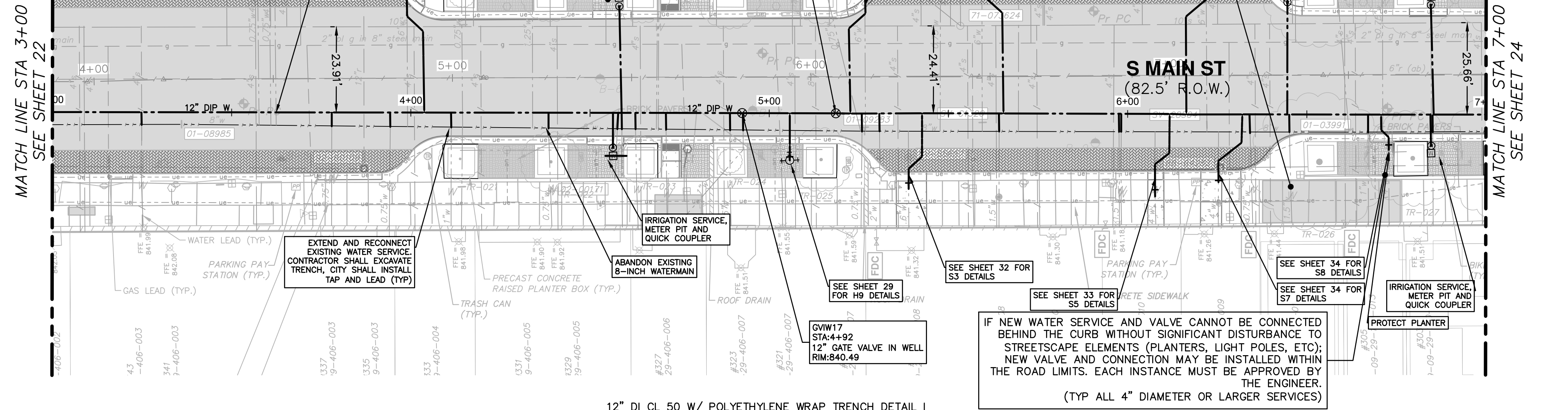
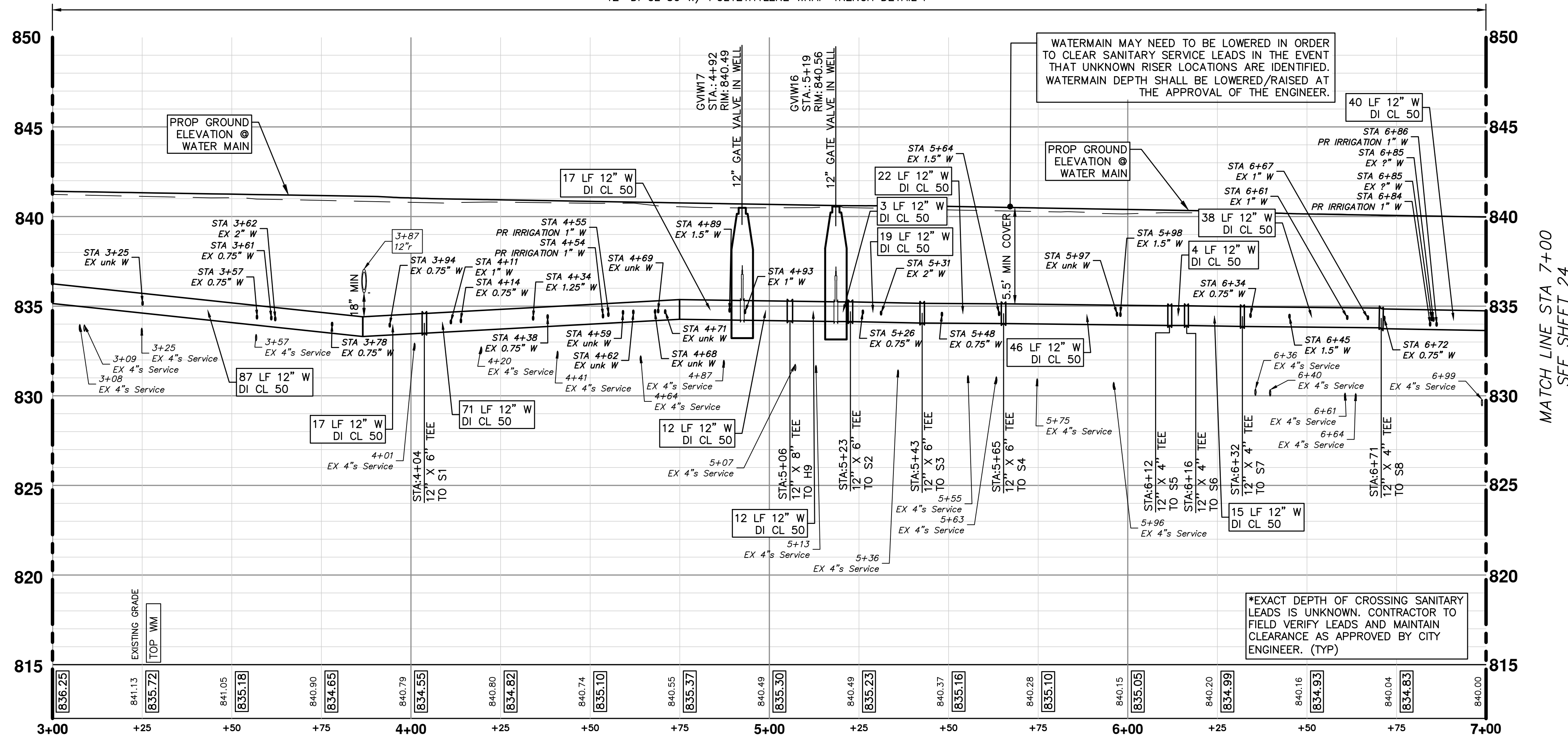
SHEET No. 22 OF 80

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR MI 48107-8647
www.a2gov.org

MATCH LINE STA 3+00
SEE SHEET 22

MATCH LINE STA 3+00
SEE SHEET 22



LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVEMENT AREA

NOTES

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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVIW17	12" GVIW	4+92	840.49	6.77	Q
GVIW16	12" GVIW	5+19	840.56	6.92	Q

Existing Water Services			Existing Water Services		
Address	Station	Size (in)	Address	Station	Size (in)
343	3+25	unknown	319	5+26	0.75
332	3+57	0.75	317	5+31	2
332	3+61	0.75	317	5+43	6
332	3+62	2	314	5+48	0.75
337	3+78	0.75	315	5+64	1.5
335	3+94	0.75	312	5+65	6
328	4+04	6	311	5+97	unknown
333	4+11	1	311	5+98	1.5
328	4+14	0.75	311	6+12	4
326	4+34	1.25	306	6+16	6
331	4+38	0.75	309	6+32	4
329	4+59	unknown	309	6+34	0.75
327	4+62	unknown	307	6+45	1.5
322	4+68	unknown	306	6+61	1
322	4+69	unknown	305	6+67	1
327	4+71	unknown	305	6+71	4
323	4+89	1.5	304	6+72	0.75
327	4+93	1	302	6+85	unknown
316	5+23	6	303	6+85	unknown

811 Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

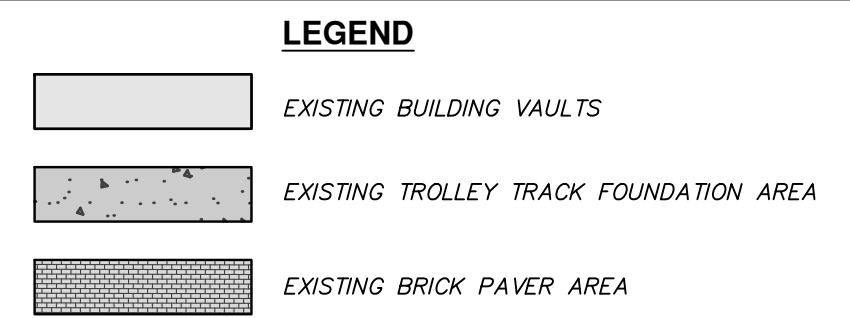
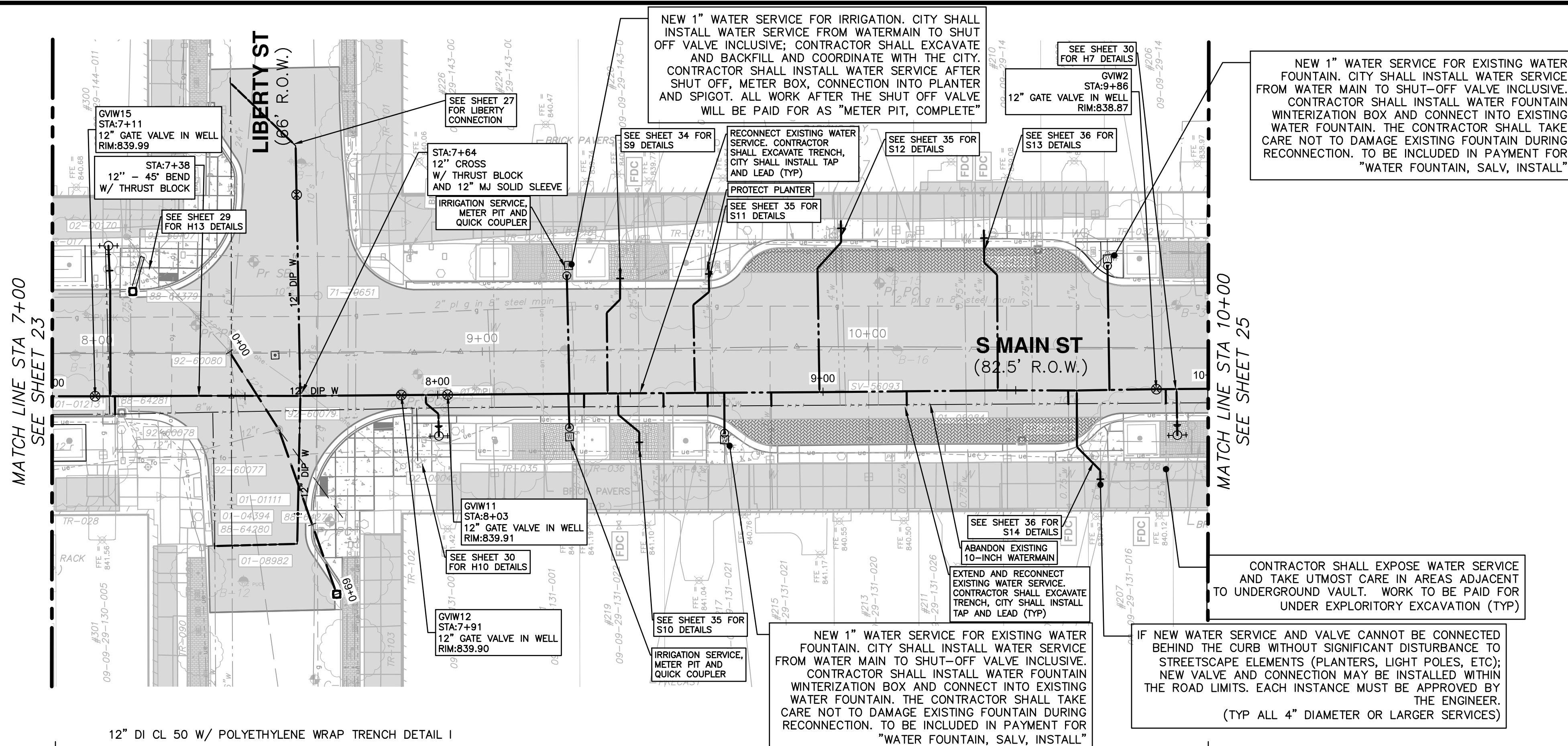
S MAIN ST PROPOSED WATER MAIN STA 3+00 TO STA 7+00

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

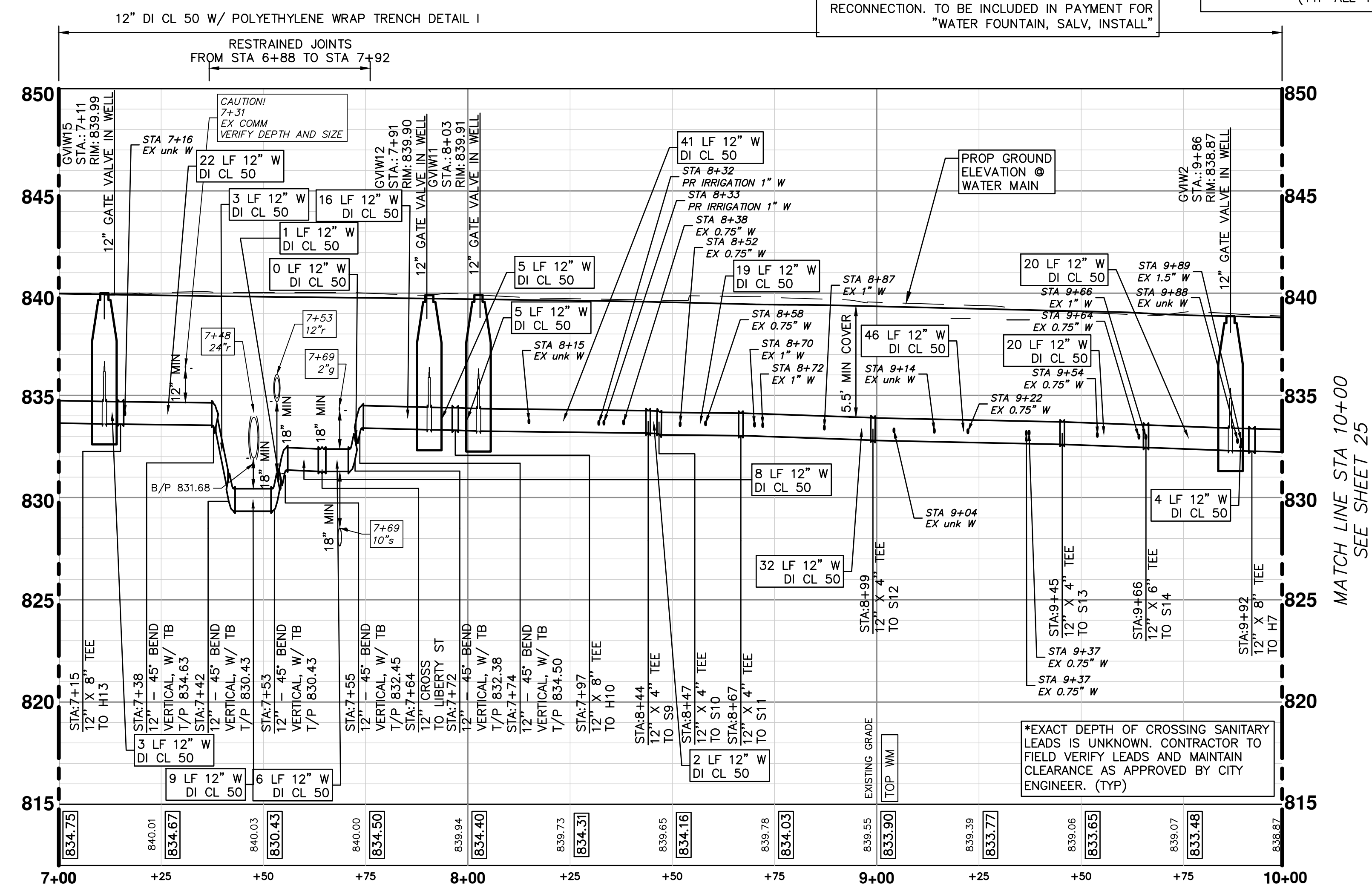
DRAWING NO. 2020-038-23

SHEET NO. 23 OF 80

REV.	DESCRIPTION	DATE	DRAWN	CHECKED



- NOTES**
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Existing Water Services

Address	Station	Size (in)
301	7+16	unknown
224	8+15	unknown
219	8+38	0.75
220	8+44	4
219	8+47	4
220	8+52	0.75
219	8+58	0.75
218	8+67	4
217	8+70	1
218	8+72	1
215	8+87	1
214	8+99	4
214	9+04	unknown
214	9+14	unknown
213	9+22	0.75
212	9+37	0.75
211	9+37	0.75
210	9+45	4
210	9+54	0.75
209	9+64	0.75
208	9+66	1
207	9+66	6
206	9+88	unknown
207	9+89	1.5

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVIW15	12" GVIW	7+11	839.99	6.89	Q
GVIW12	12" GVIW	7+91	839.90	7.08	Q
GVIW11	12" GVIW	8+03	839.91	7.16	Q
GVIW2	12" GVIW	9+86	838.87	7.07	Q

811 Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

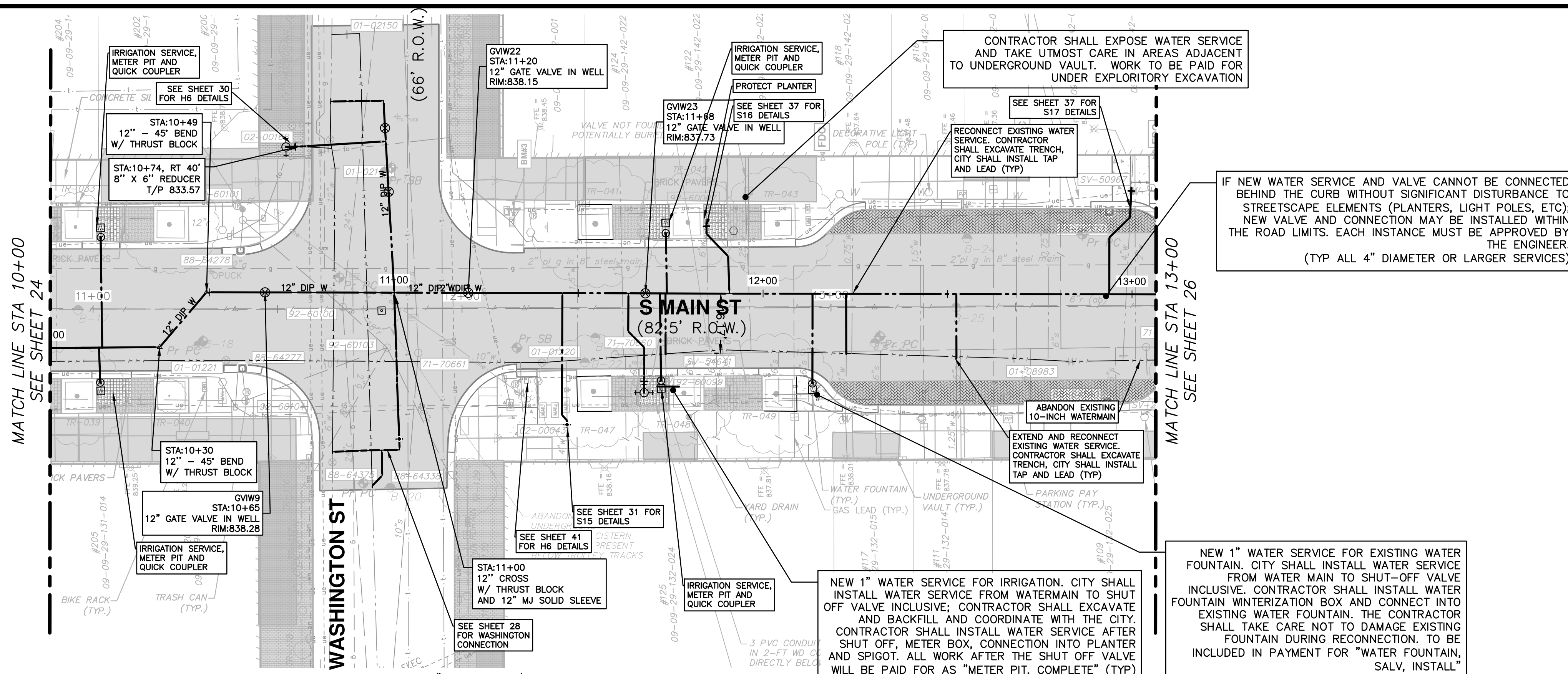
S MAIN ST PROPOSED WATER MAIN STA 7+00 TO STA 10+00

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING NO. 2020-038-24

SHEET NO. 24 OF 80

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

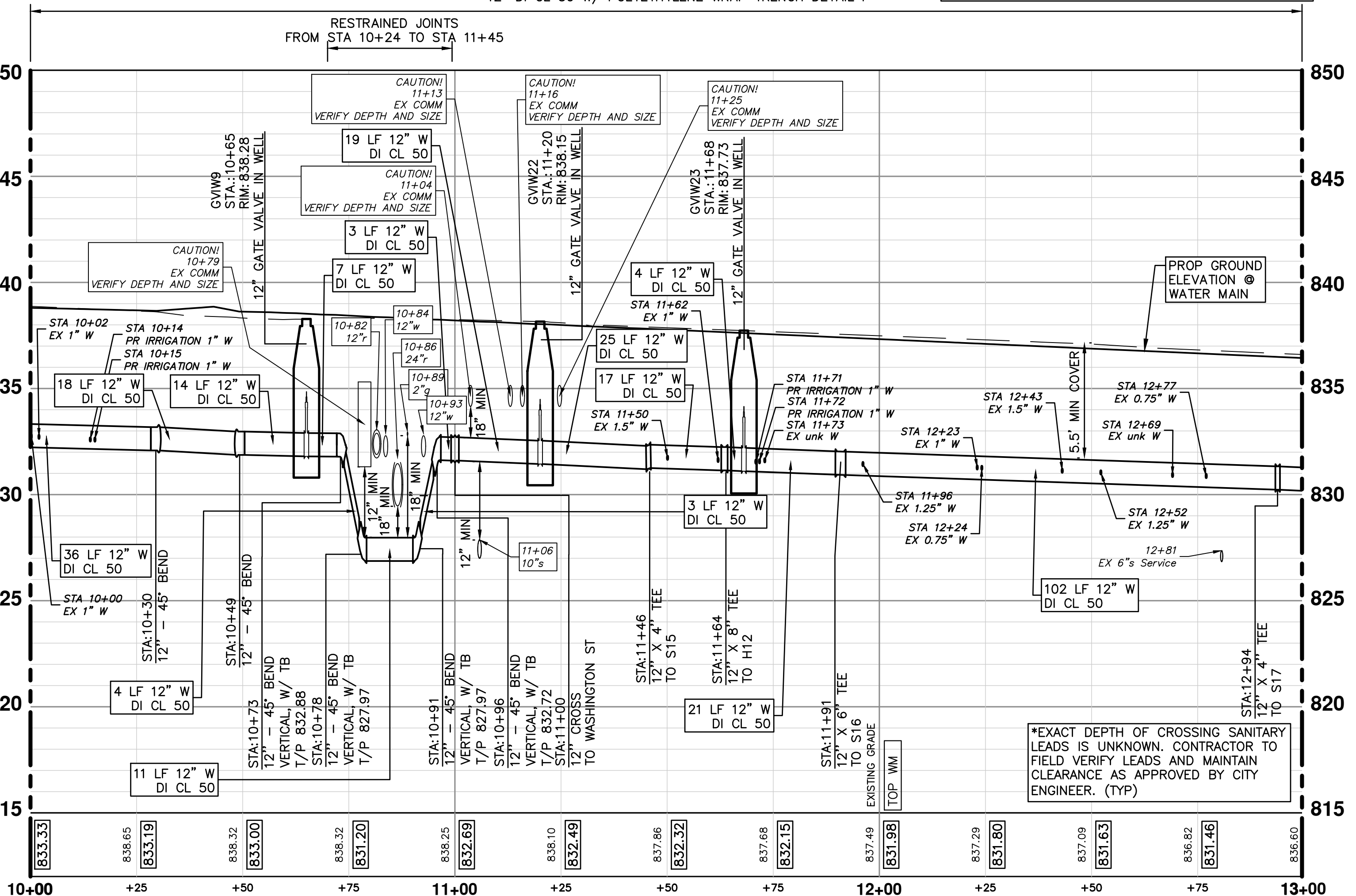
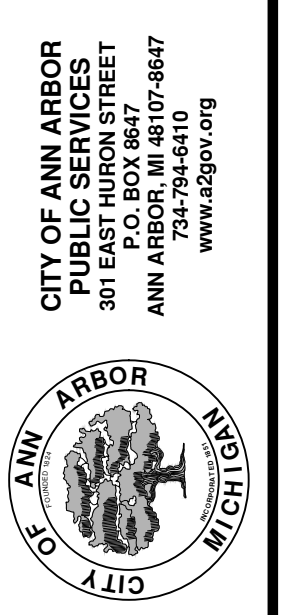


LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA

- NOTES**
- 1: DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED



Existing Water Services

Address	Station	Size (in)
205	10+00	1
204	10+02	1
125	11+46	4
126	11+50	1.5
124	11+62	1
125	11+73	unknown
122	11+91	6
120	11+96	1.25
117	12+23	1
118	12+24	0.75
116	12+43	1.5
111	12+52	1.25
114	12+69	unknown
112	12+77	0.75
110	12+94	4

WATER MAIN STRUCTURE TABLE

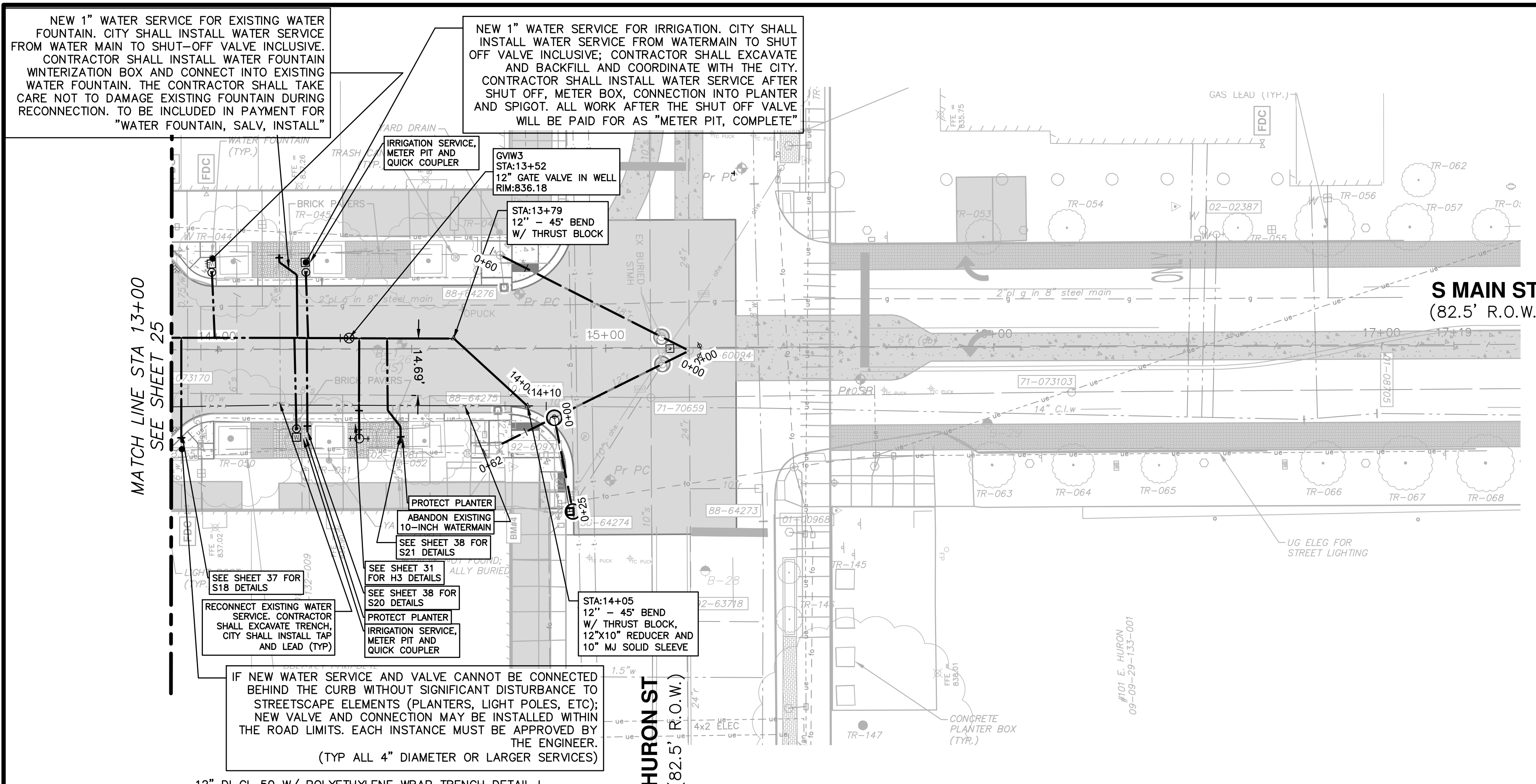
STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GWIW9	12" GWIW	10+65	838.28	6.98	Q
GWIW22	12" GWIW	11+20	838.15	7.21	Q
GWIW23	12" GWIW	11+68	837.73	7.18	Q

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*EXACT DEPTH OF CROSSING SANITARY LEADS IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LEADS AND MAINTAIN CLEARANCE AS APPROVED BY CITY ENGINEER. (TYP)



LEGEND

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- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVEMENT AREA

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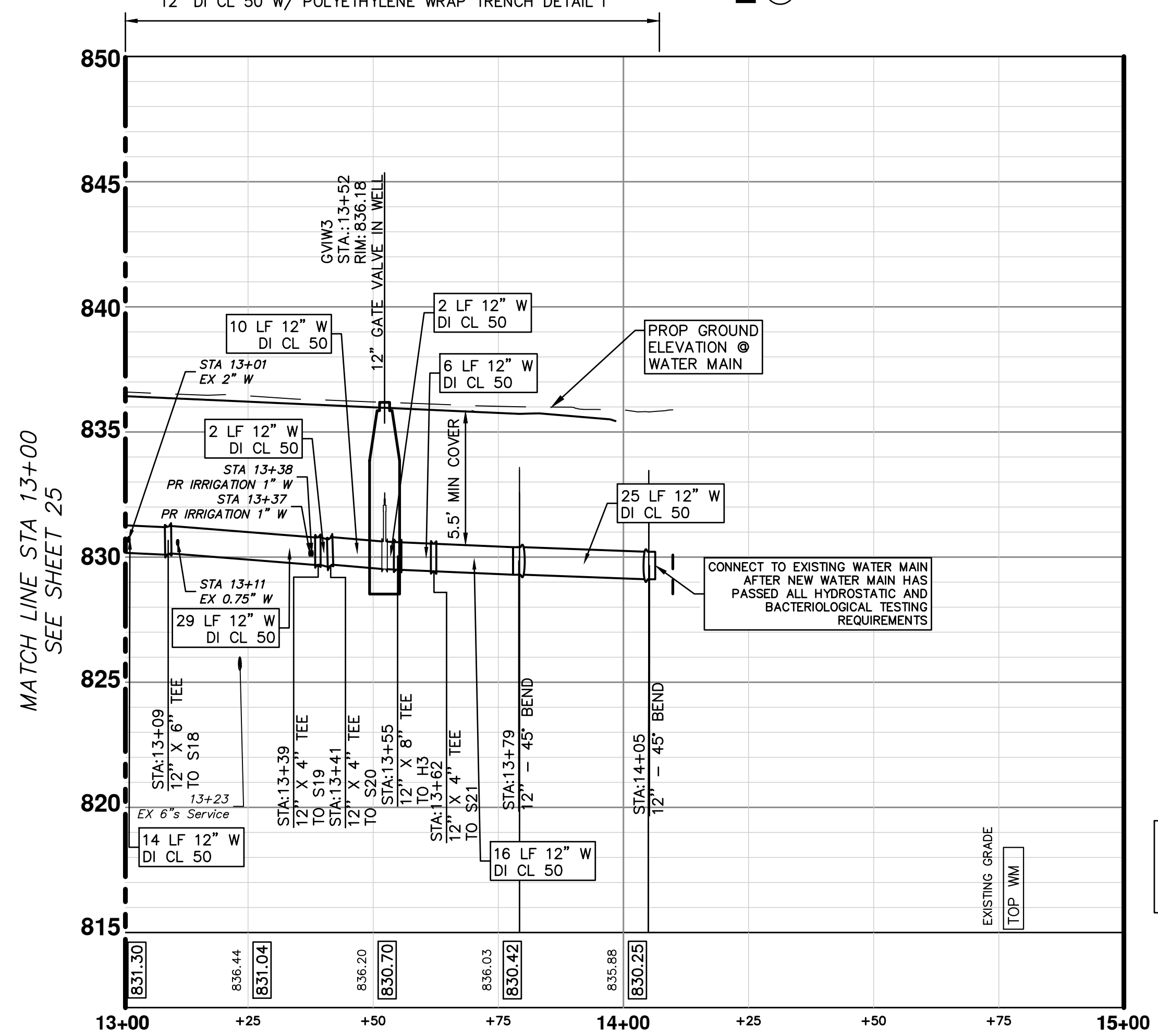
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Existing Water Services

Address	Station	Size (in)
110	13+01	2
109	13+09	6
108	13+11	0.75
106	13+39	4
101	13+41	4
101	13+62	4

WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVW3	12" GVW	13+52	836.18	7.16	Q




*EXACT DEPTH OF CROSSING SANITARY LEADS IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LEADS AND MAINTAIN CLEARANCE AS APPROVED BY CITY ENGINEER. (TYP)



Know what's below.
Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

S MAIN ST PROPOSED WATER MAIN STA 13+00 TO STA 14+10

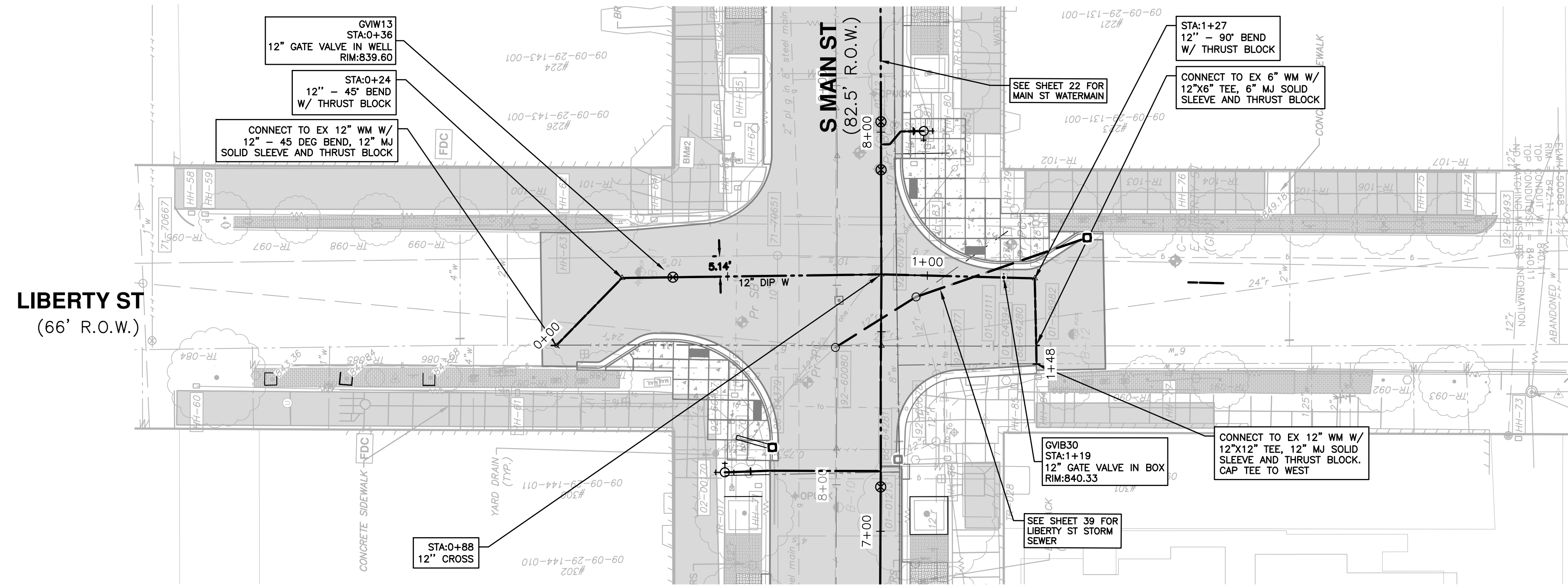
SCALE PLAN: 1"=20'

PROFILE: 1"=5'

DRAWING No. 2020-038-26

SHEET No. 26 OF 80

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1647
www.a2gov.org



LIBERTY ST
(66' R.O.W.)

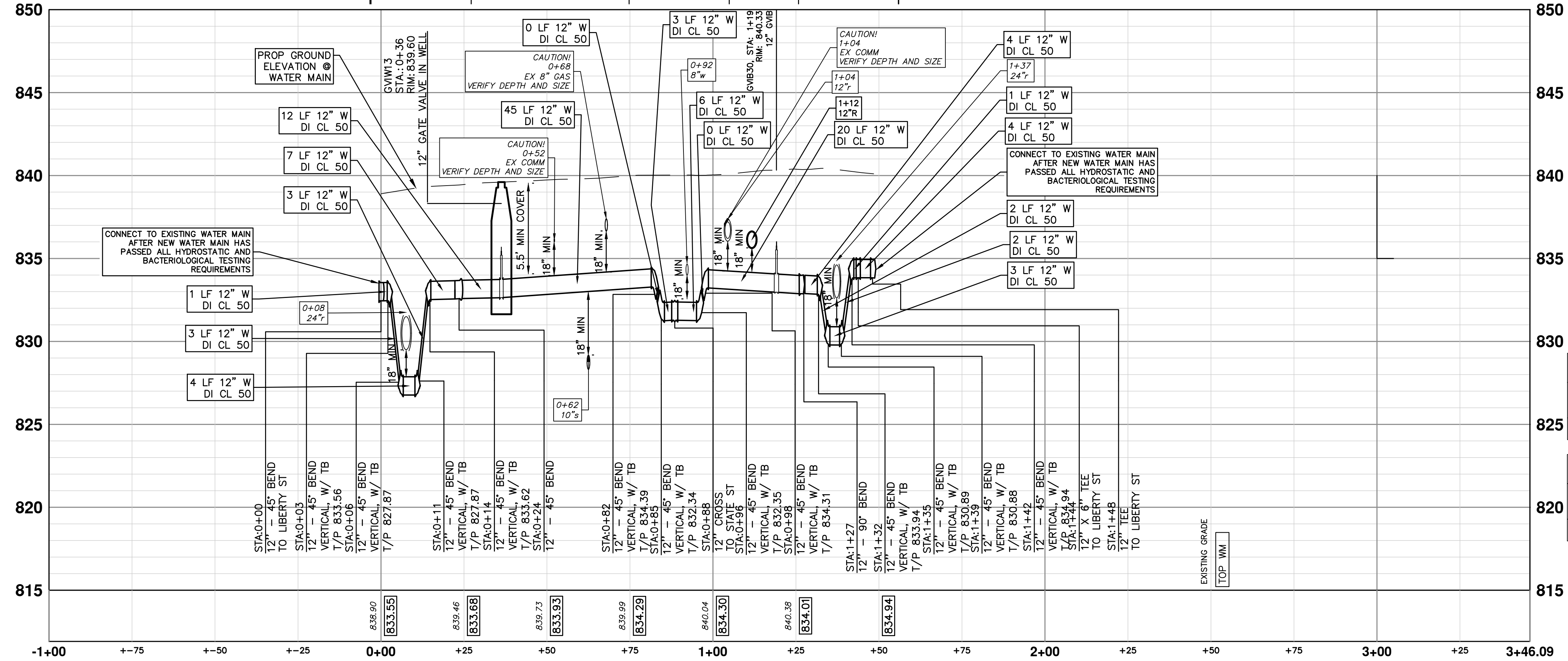
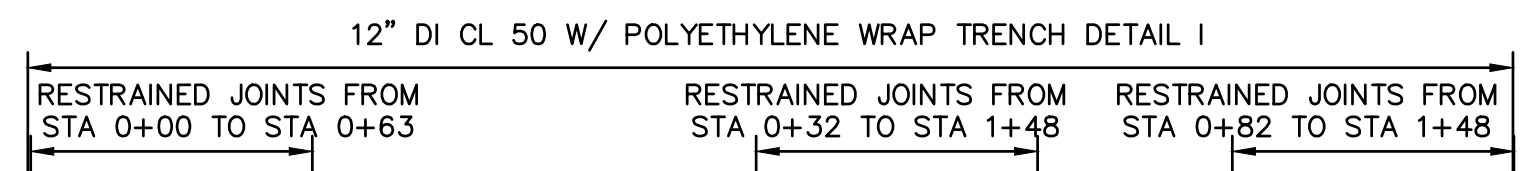
S MAIN ST
(82.5' R.O.W.)

LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA

NOTES

- 1: DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVW13	12" GVW	0+36	839.60	7.46	Q

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVIB30	12" GVIB	1+19	840.33	7.84	Q

Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

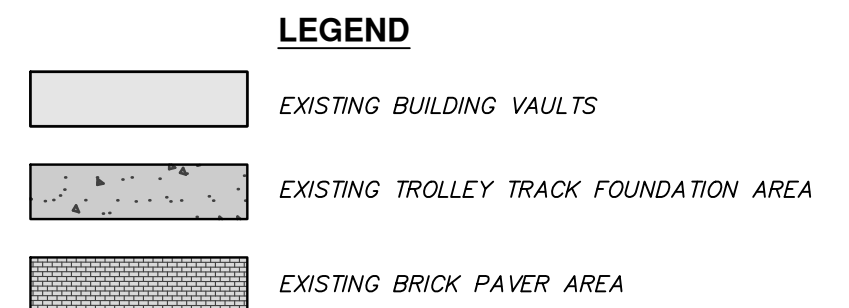
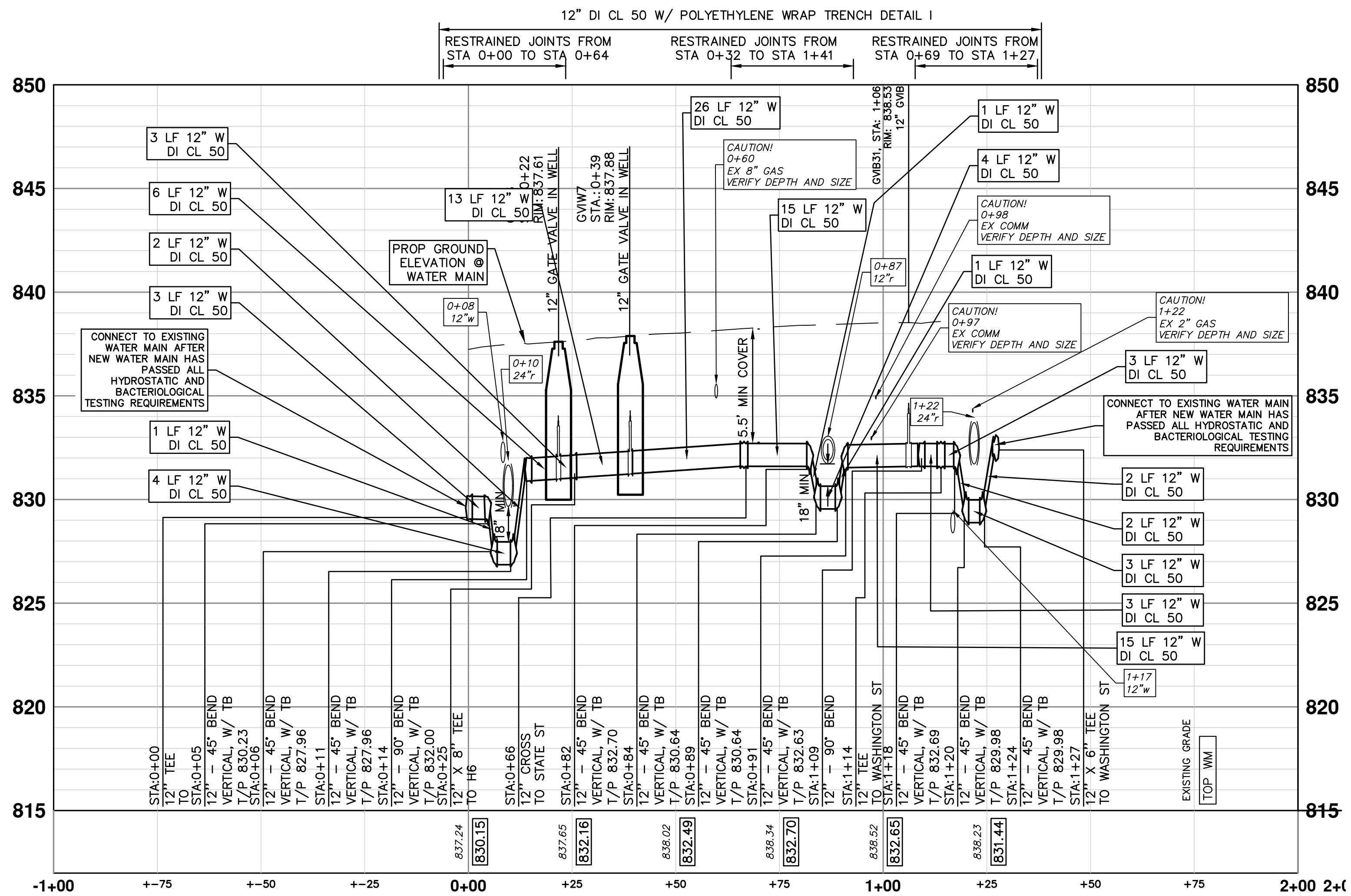
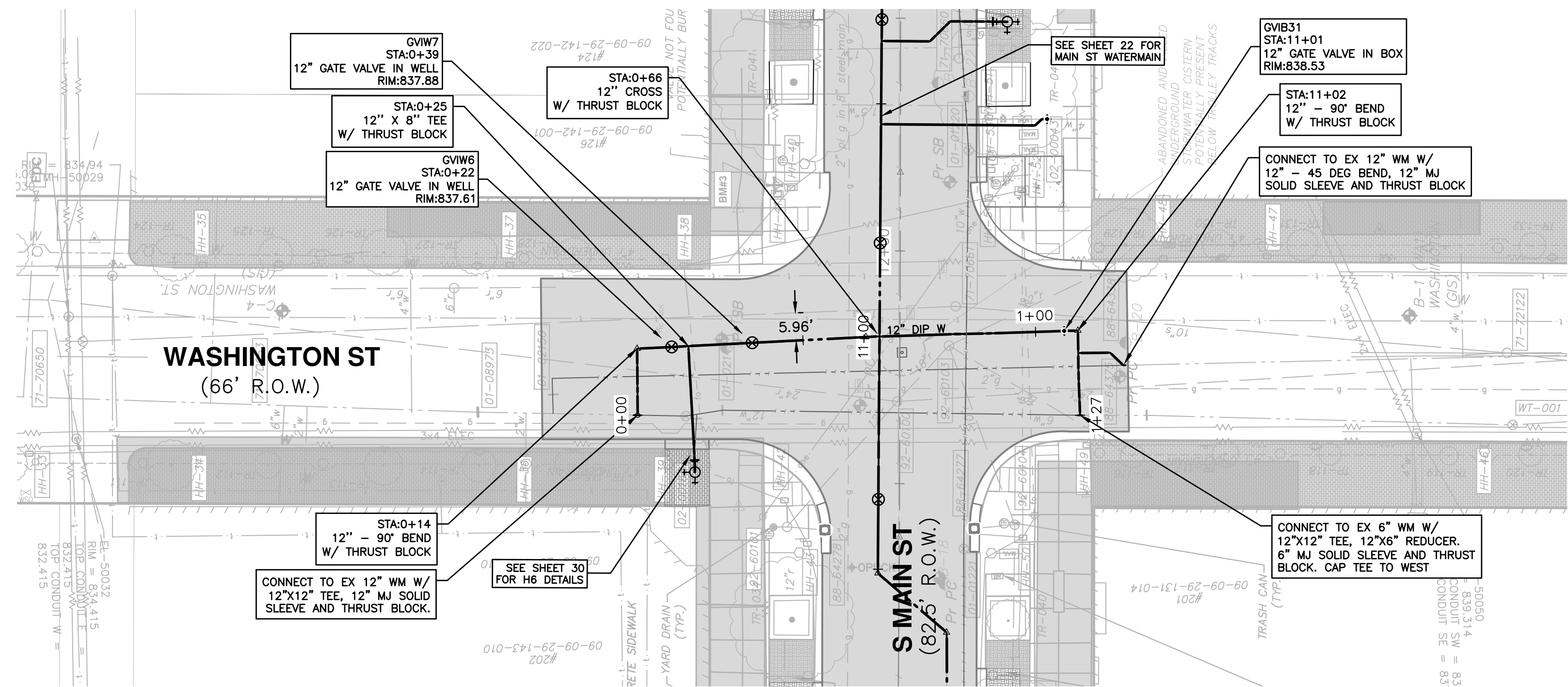
PROPOSED WATER MAIN PLAN AND PROFILE - LIBERTY STREET

SCALE PLAN: 1"=80'

PROFILE: 1"=8'

DRAWING NO. 2020-038-27

SHEET NO. 27 OF 80



- NOTES**
- DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH	COVER TYPE
GVW6	12" GVW	0+22	837.61	7.12	Q
GVW7	12" GVW	0+39	837.88	7.15	Q

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB31	GVIB	11+01	838.53	7.43

811
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

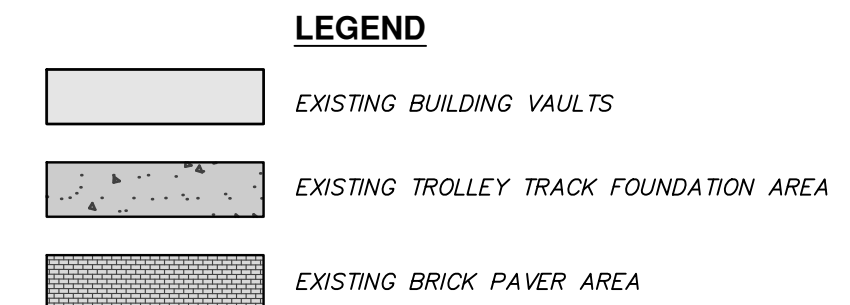
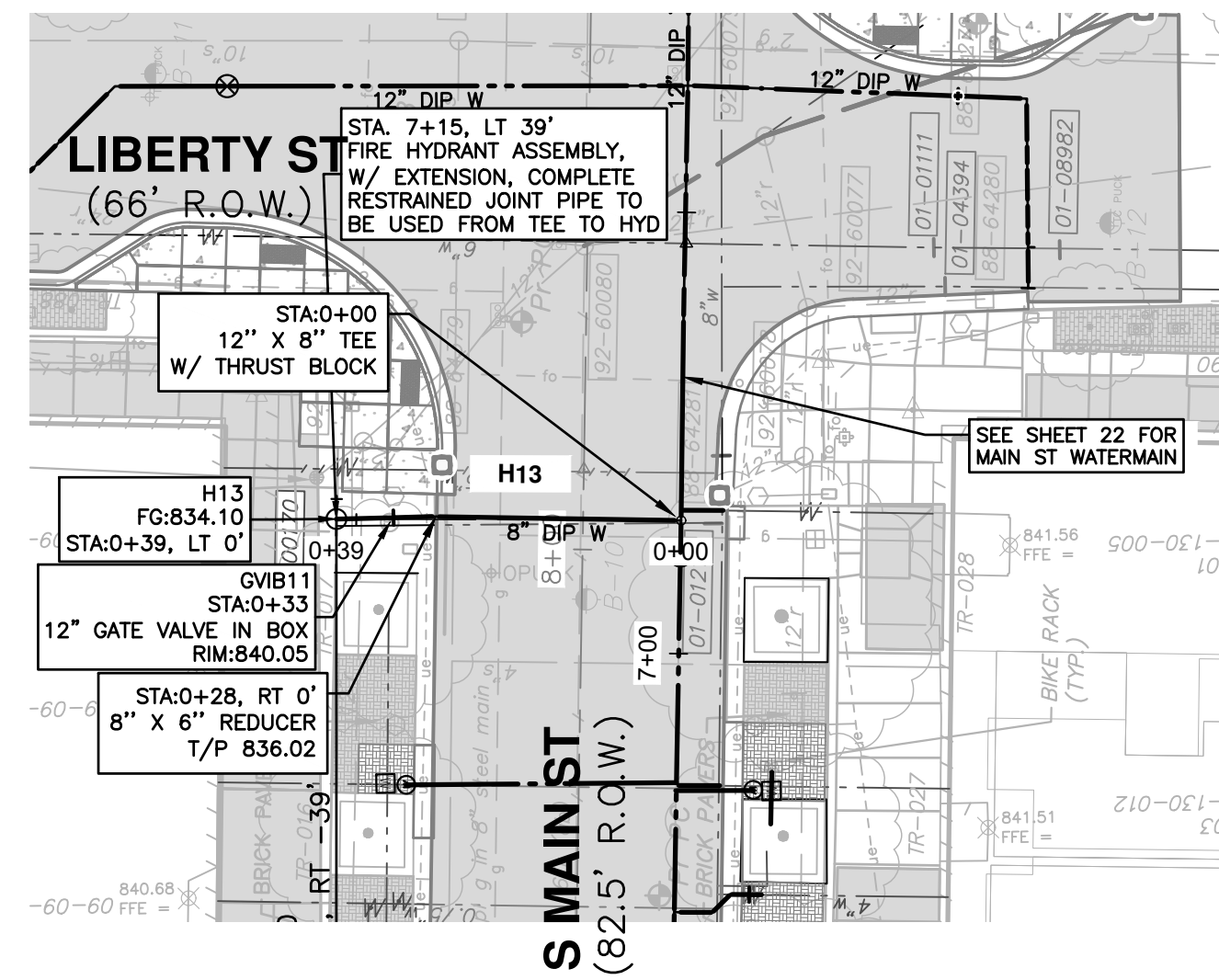
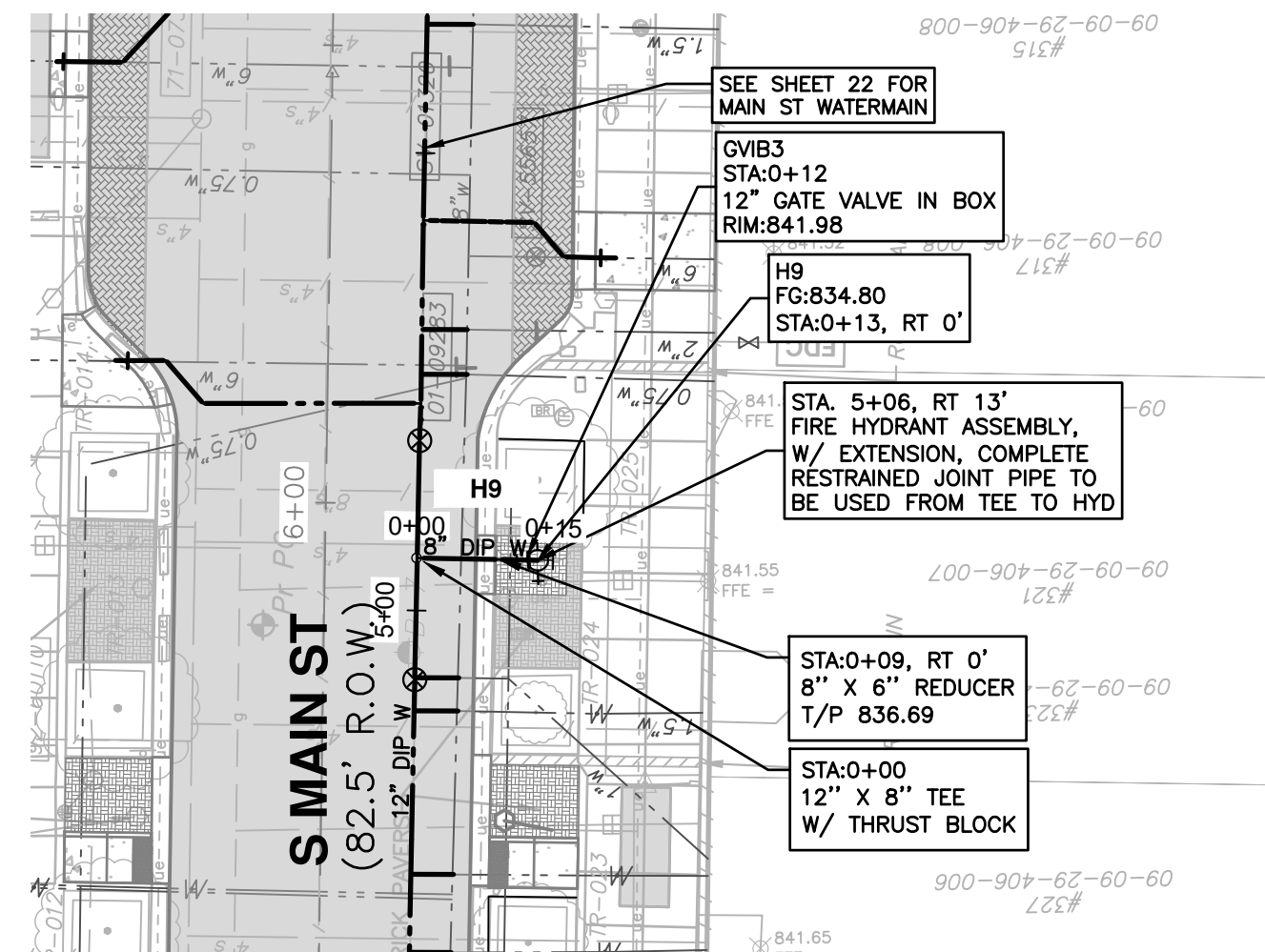
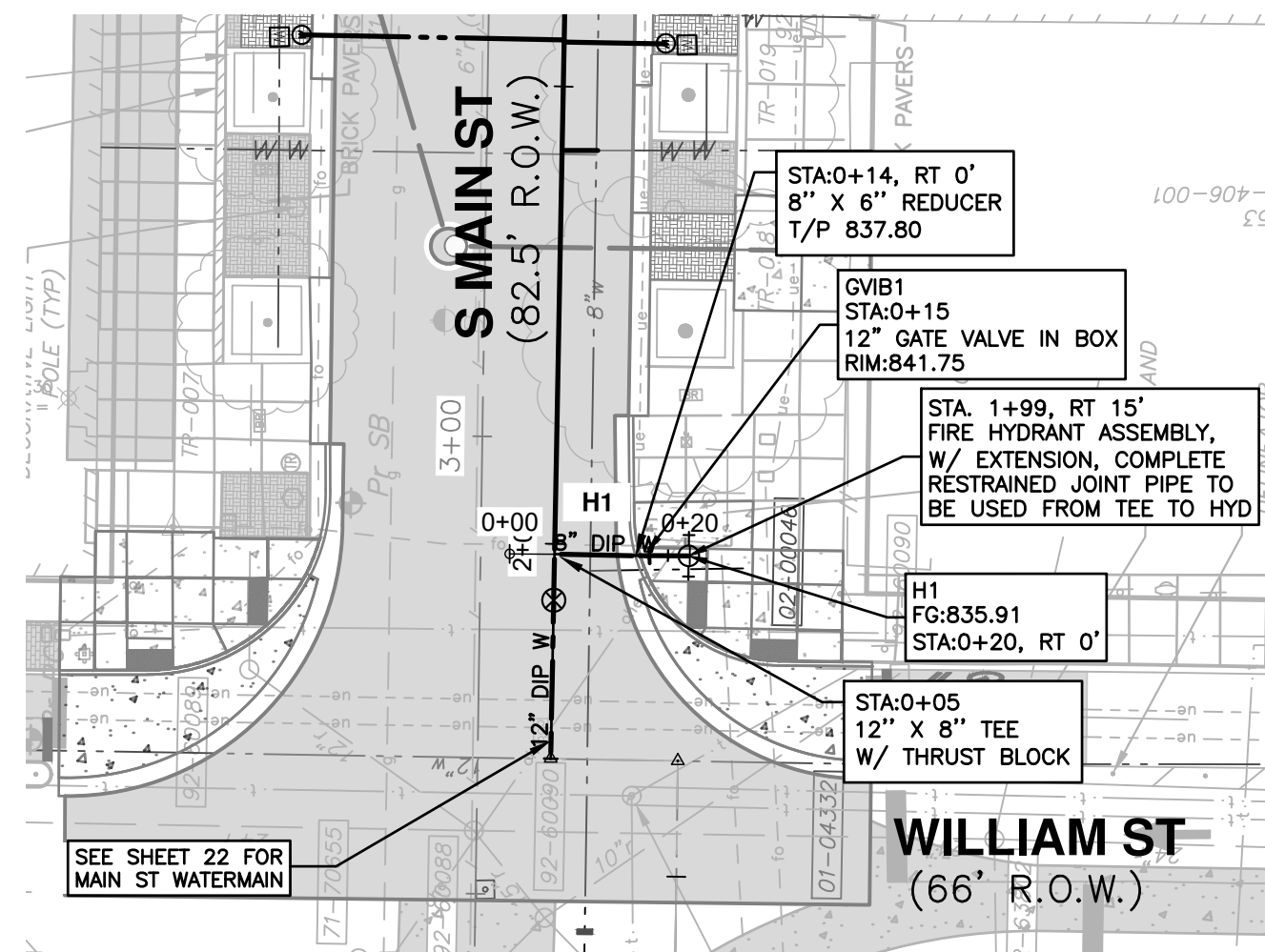
PROPOSED WATER MAIN PLAN AND PROFILE - WASHINGTON STREET

SCALE PLAN: 1"=80'
PROFILE: 1"=5'

DRAWING NO. 2020-038-28

SHEET NO. 28 OF 80

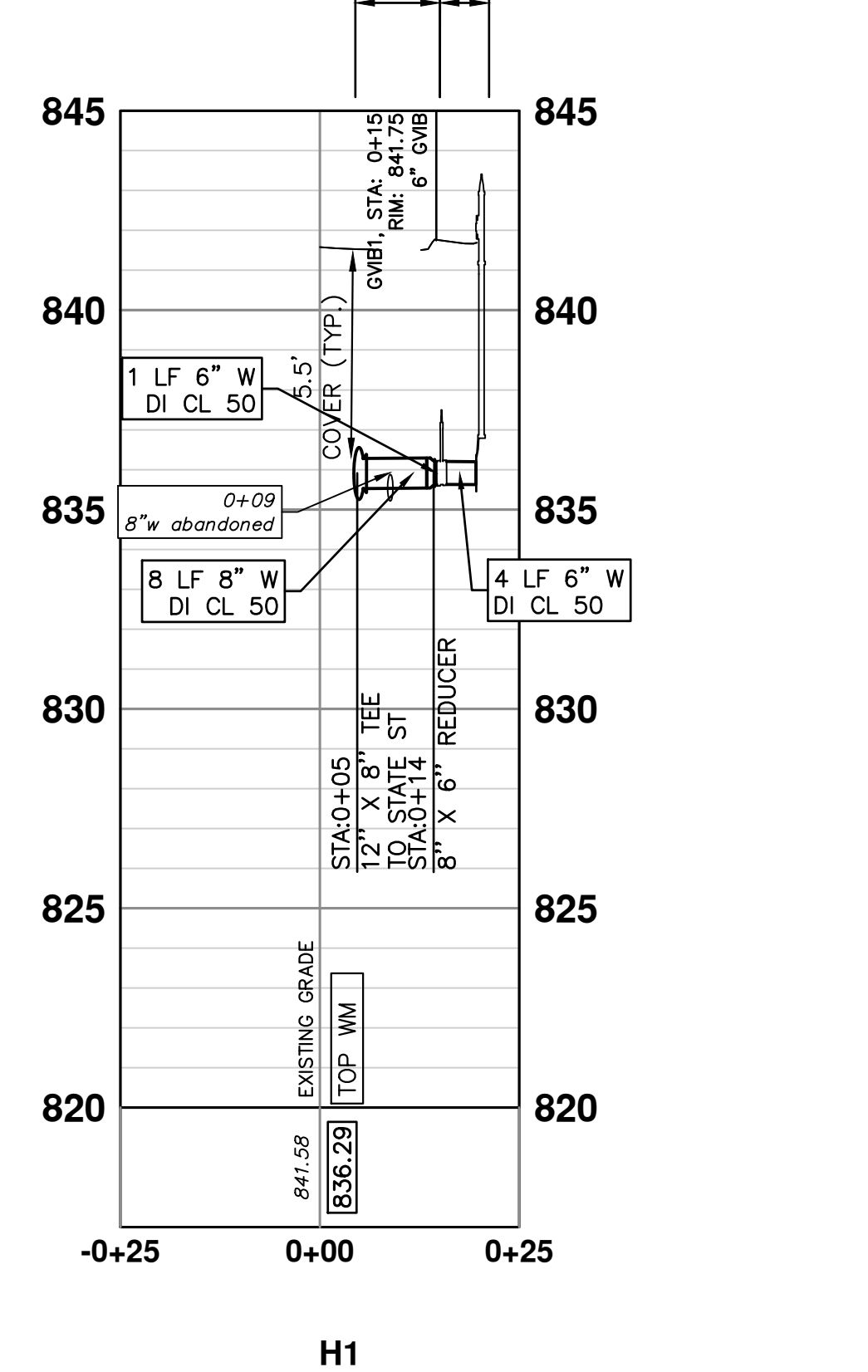
REV.	DESCRIPTION	DATE	DRAWN	CHECKED



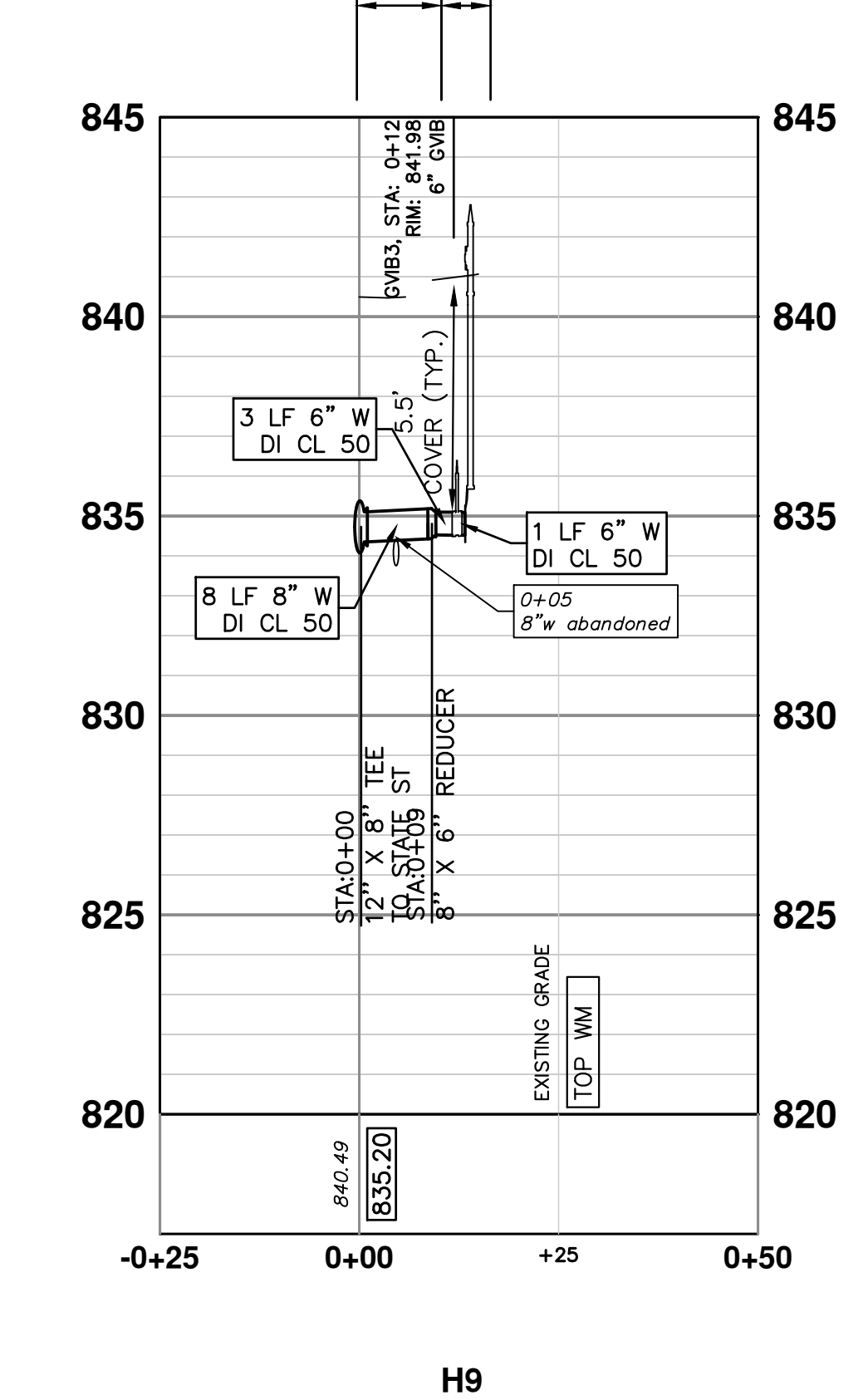
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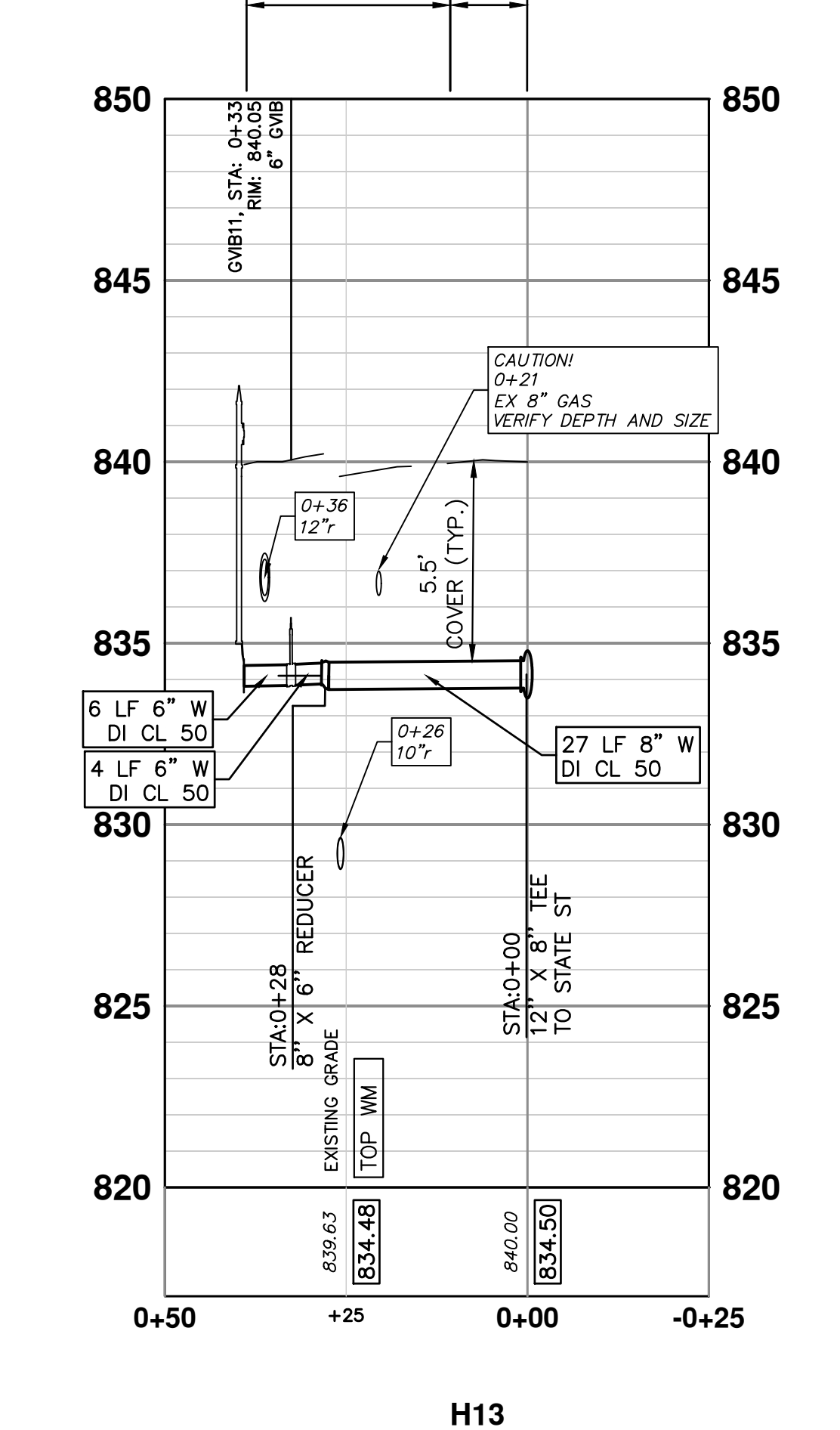
8" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I
6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



8" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I
6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I
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WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	FG	T/P
H1	HYD	0+20	841.71	5.50
H9	HYD	0+13	841.02	5.50
H13	HYD	0+31	839.96	5.50

WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB3	6" GVB	0+12	841.98	7.96
GVB1	6" GVB	0+15	841.75	7.01
GVB11	6" GVB	0+33	840.05	6.72

DATE	DRAWN	CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

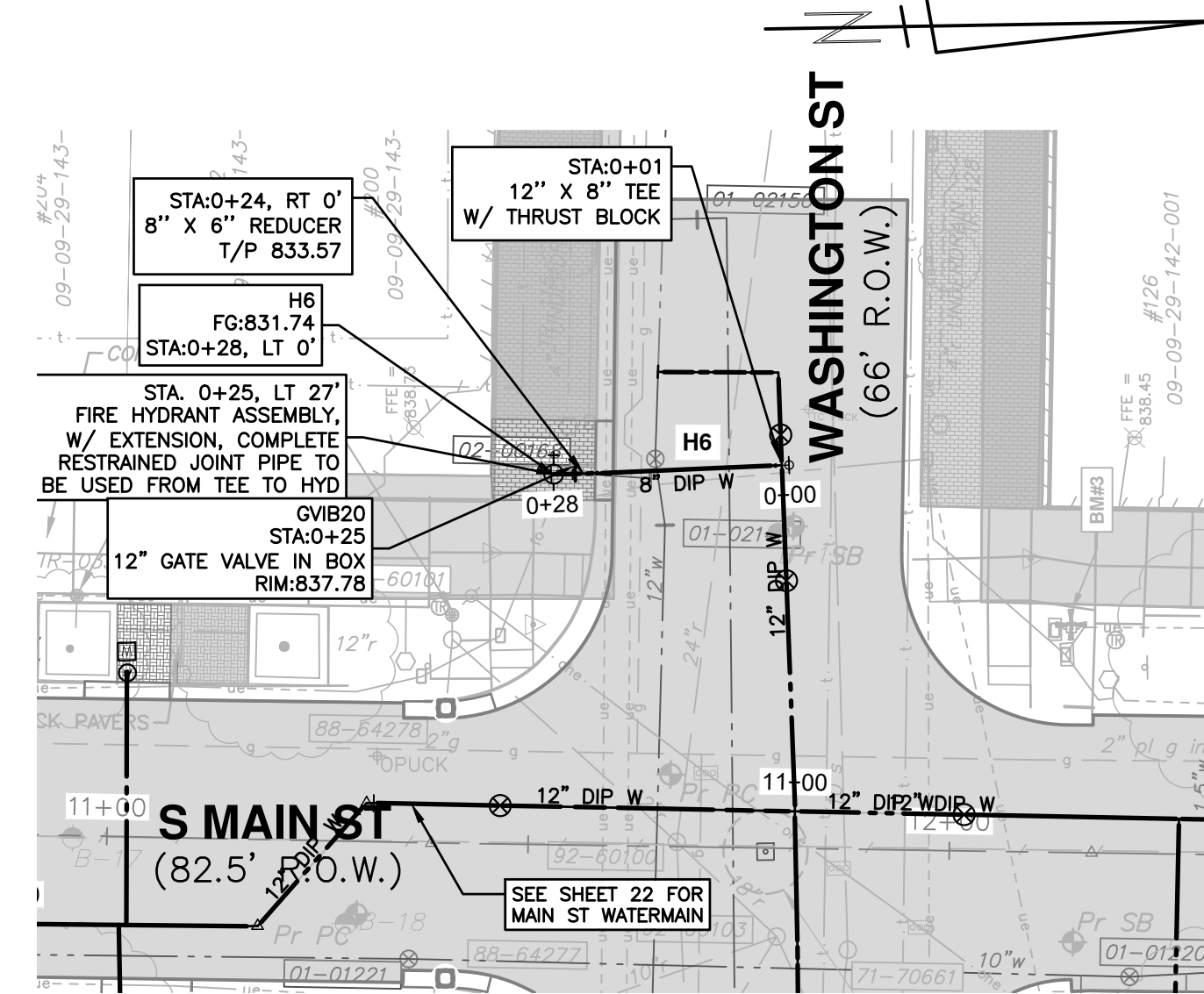
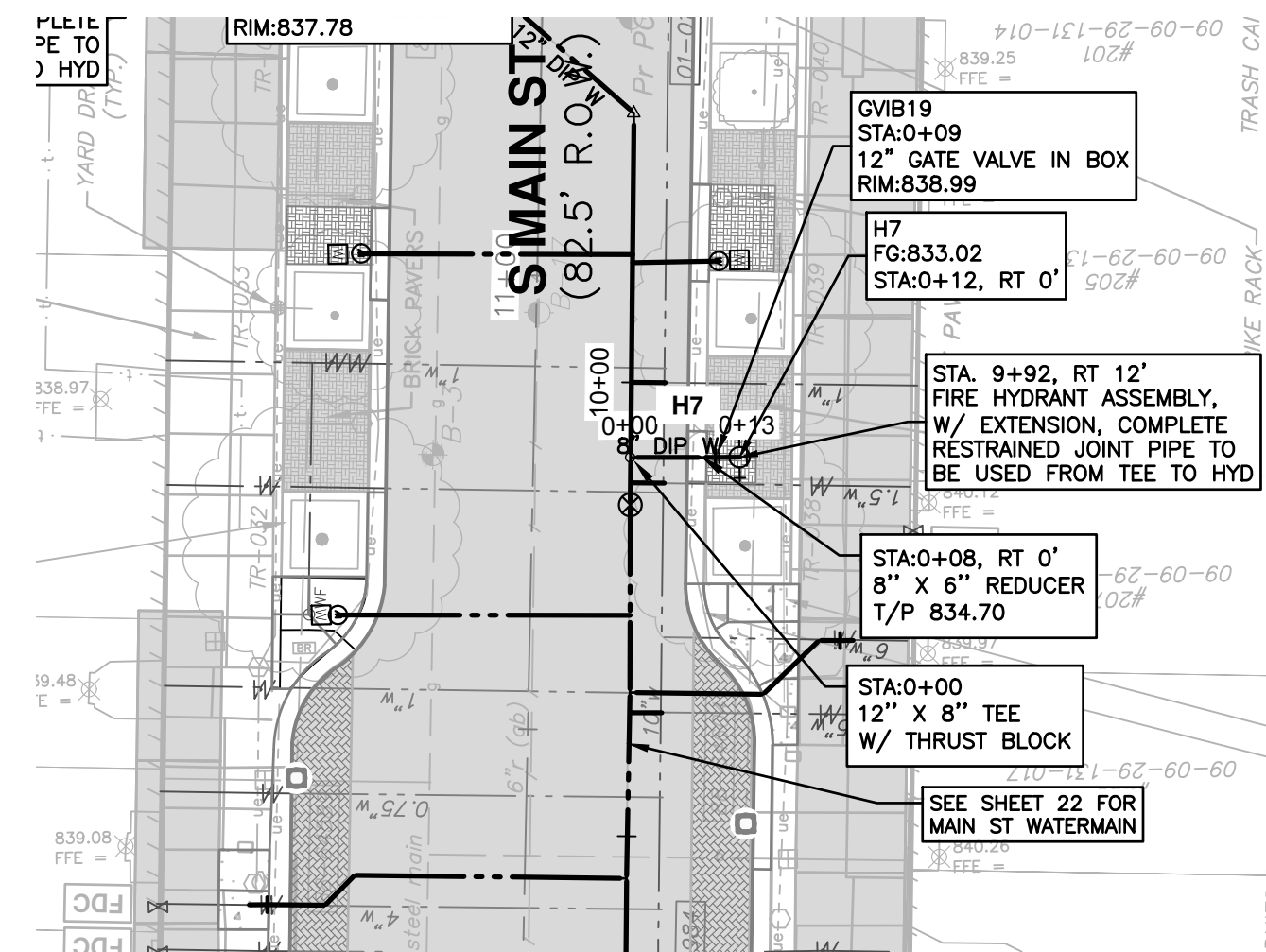
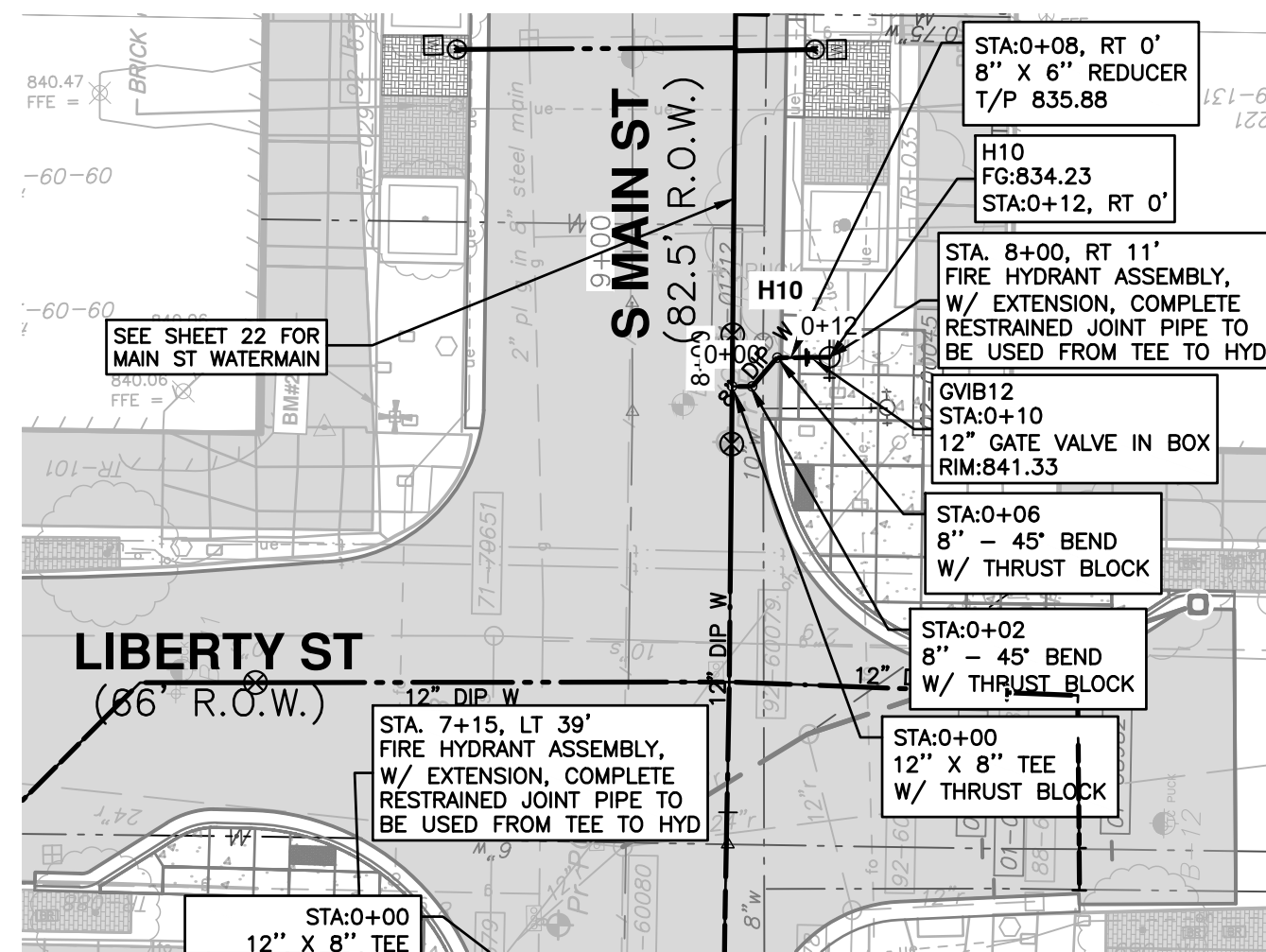
HYDRANTS 1

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING No. 2020-038-29

SHEET No. 29 OF 80

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
ANN ARBOR 734.794.6410
WWW.A2gov.org



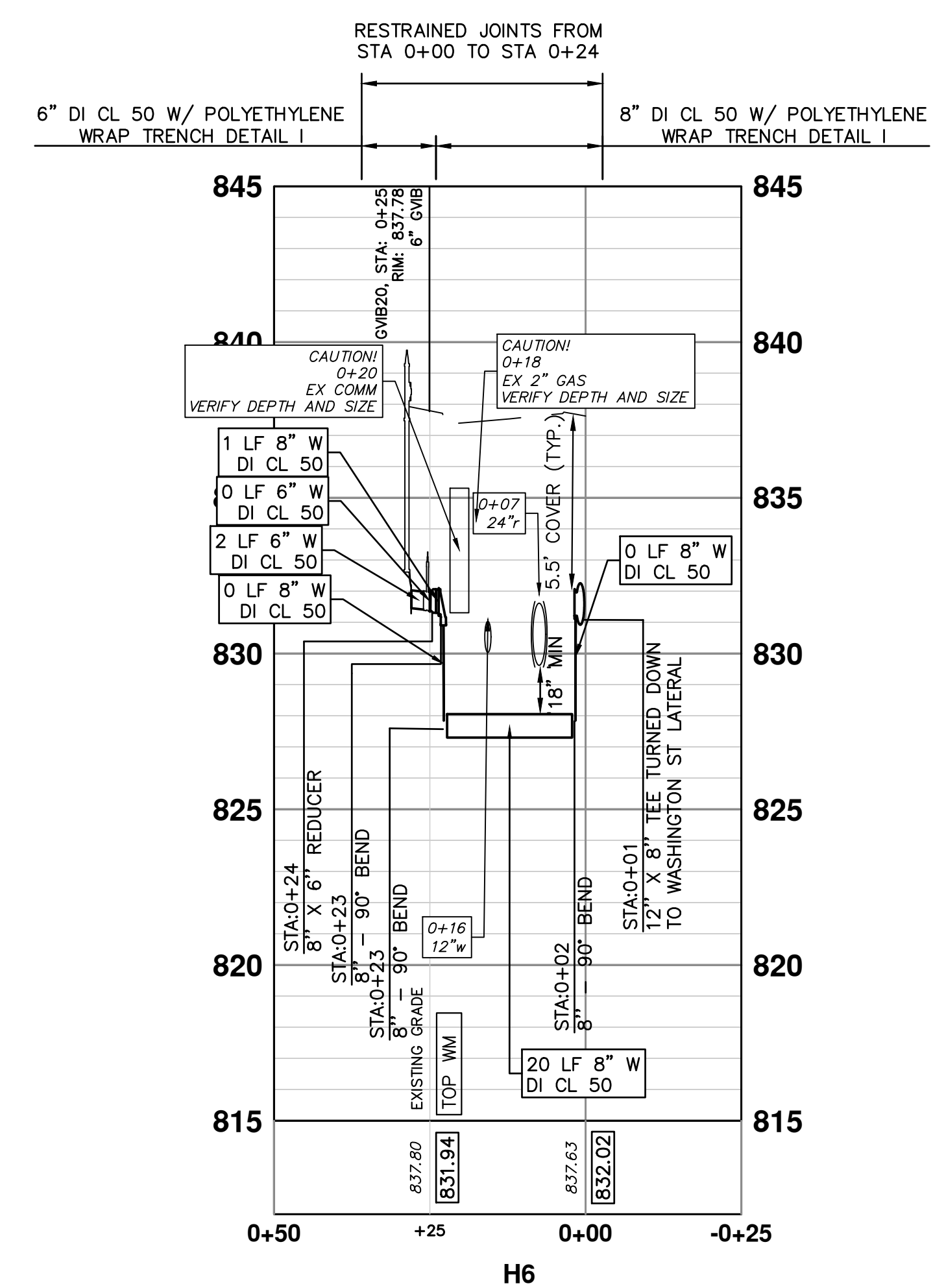
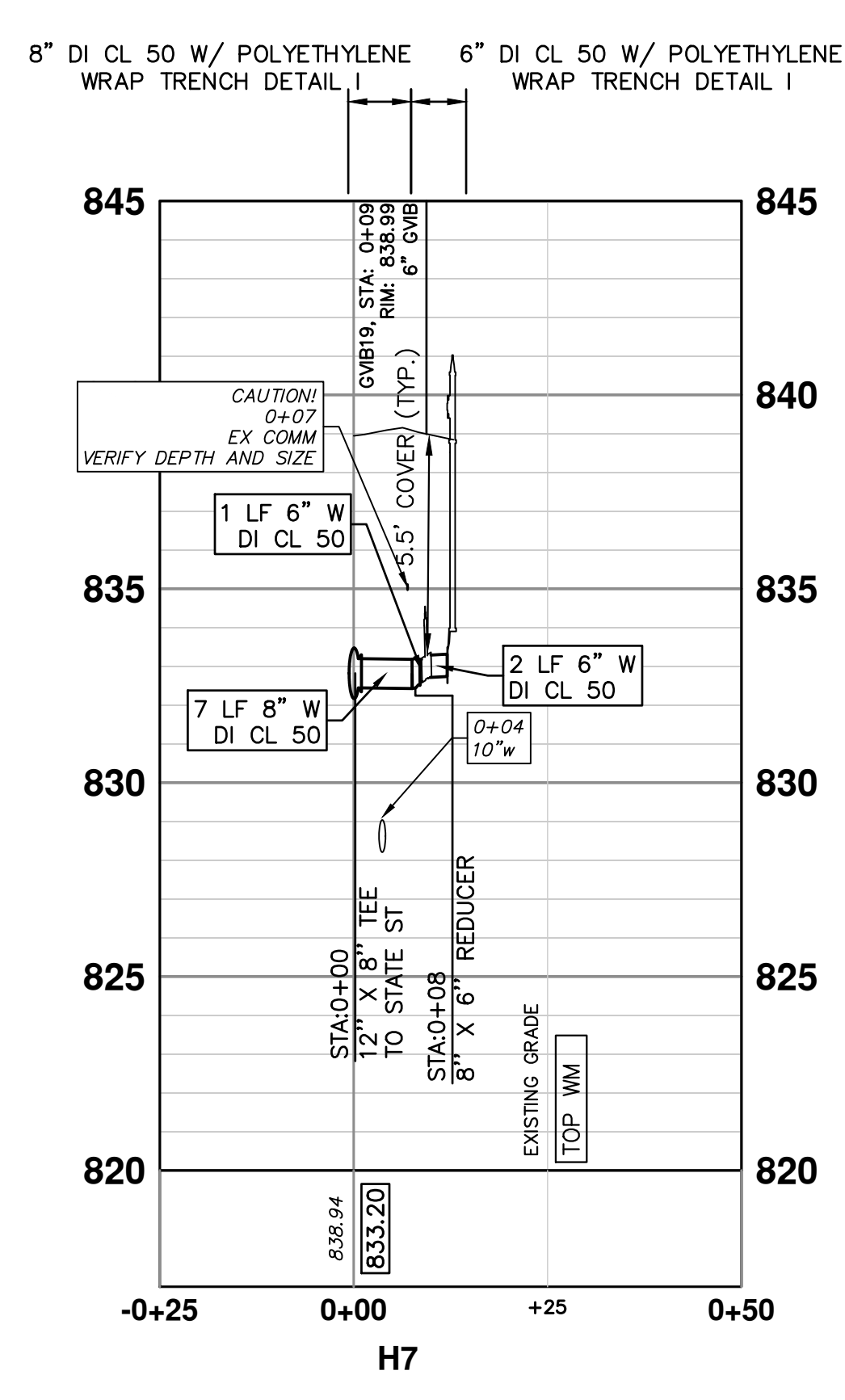
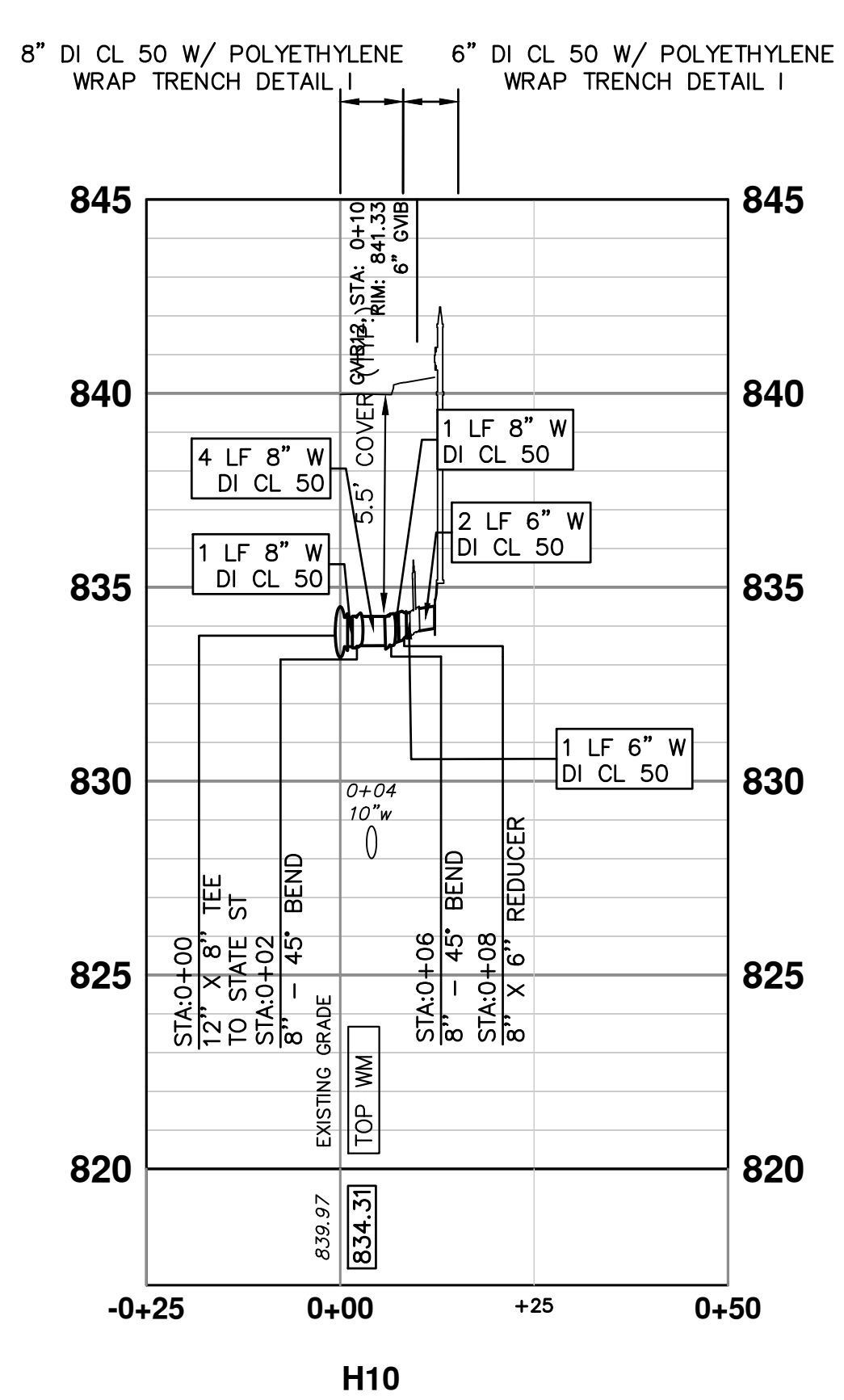
LEGEND

- EXISTING BUILDING VAULTS
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- EXISTING BRICK PAVEMENT AREA

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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	FG	T/P
H6	HYD	0+25	837.80	5.50
H7	HYD	0+11	838.94	5.50
H10	HYD	0+09	840.34	5.50

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB19	6" GVB	0+09	838.99	6.85
GVB12	6" GVB	0+10	841.33	7.99
GVB20	6" GVB	0+25	837.78	6.91

811 Know what's below. Call before you dig.

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 www.a3gov.org

ANN ARBOR MICHIGAN CITY

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

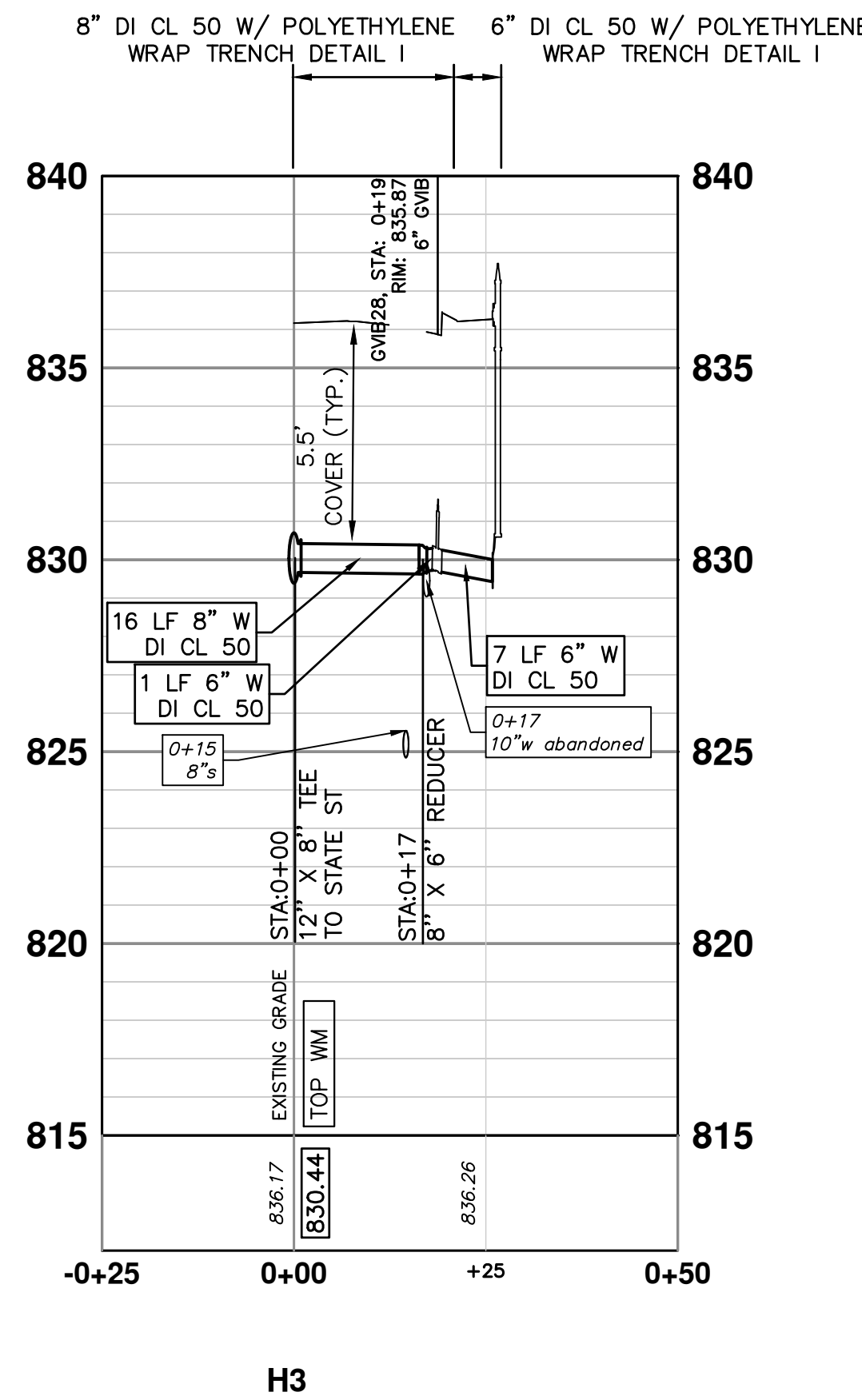
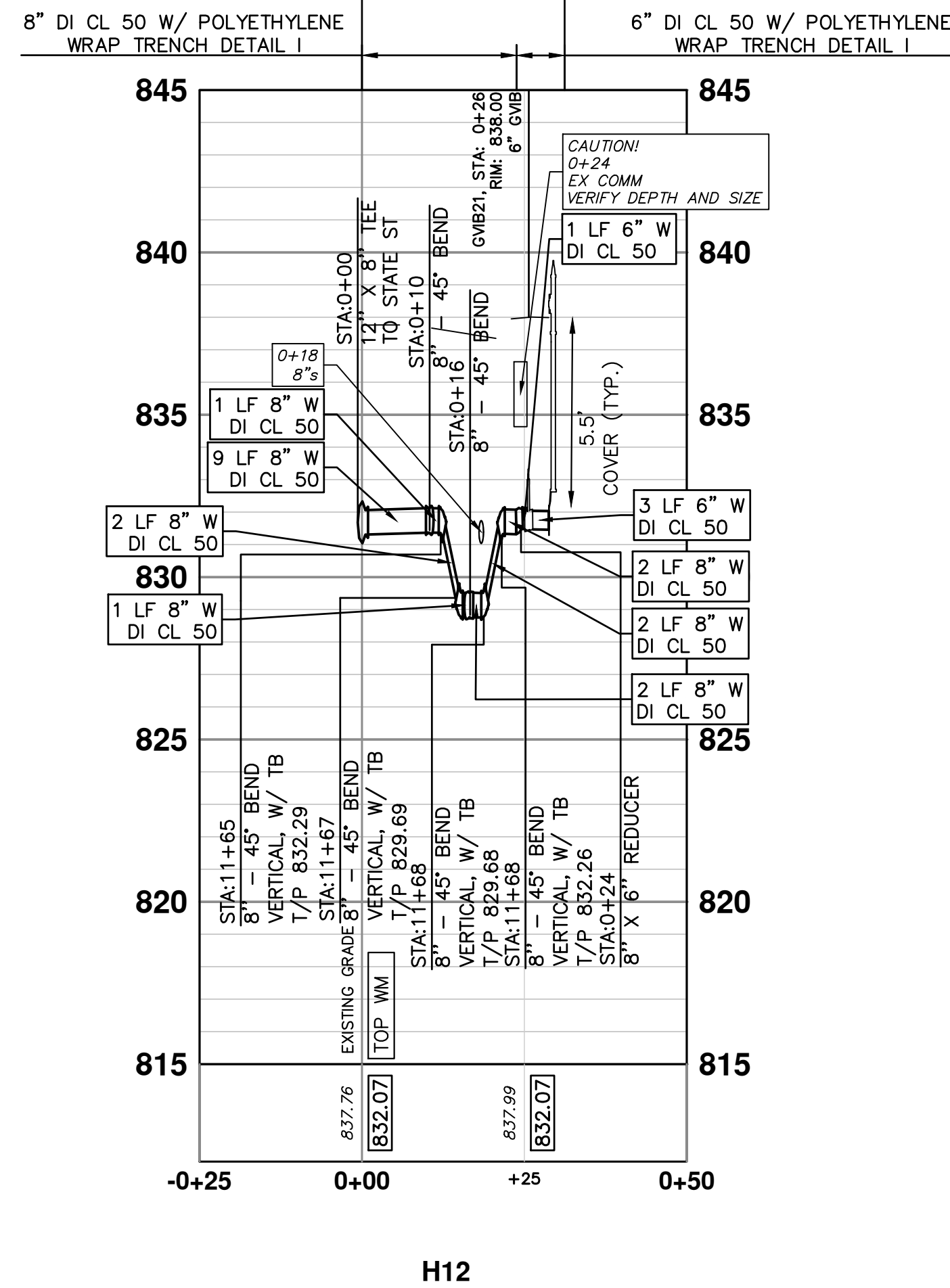
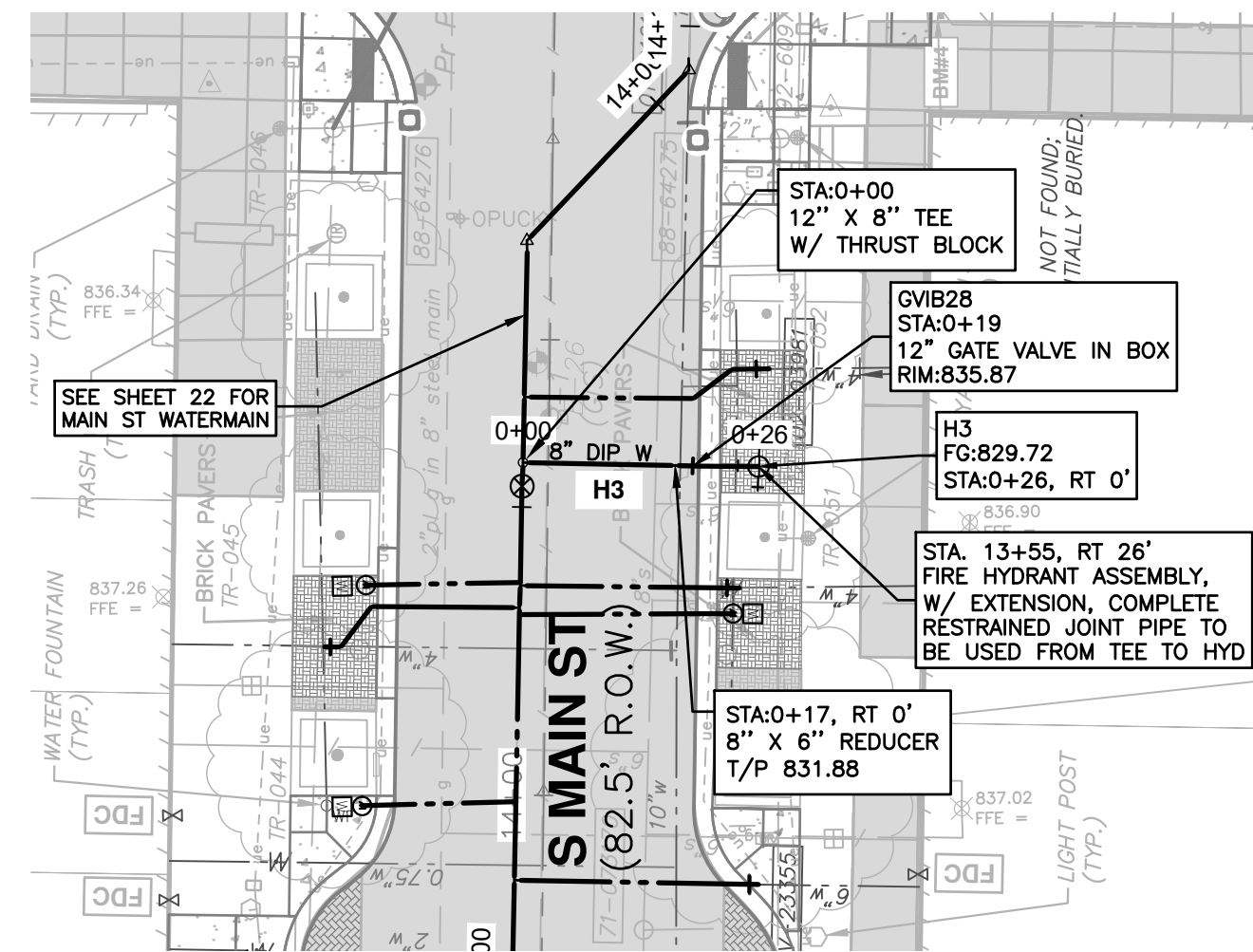
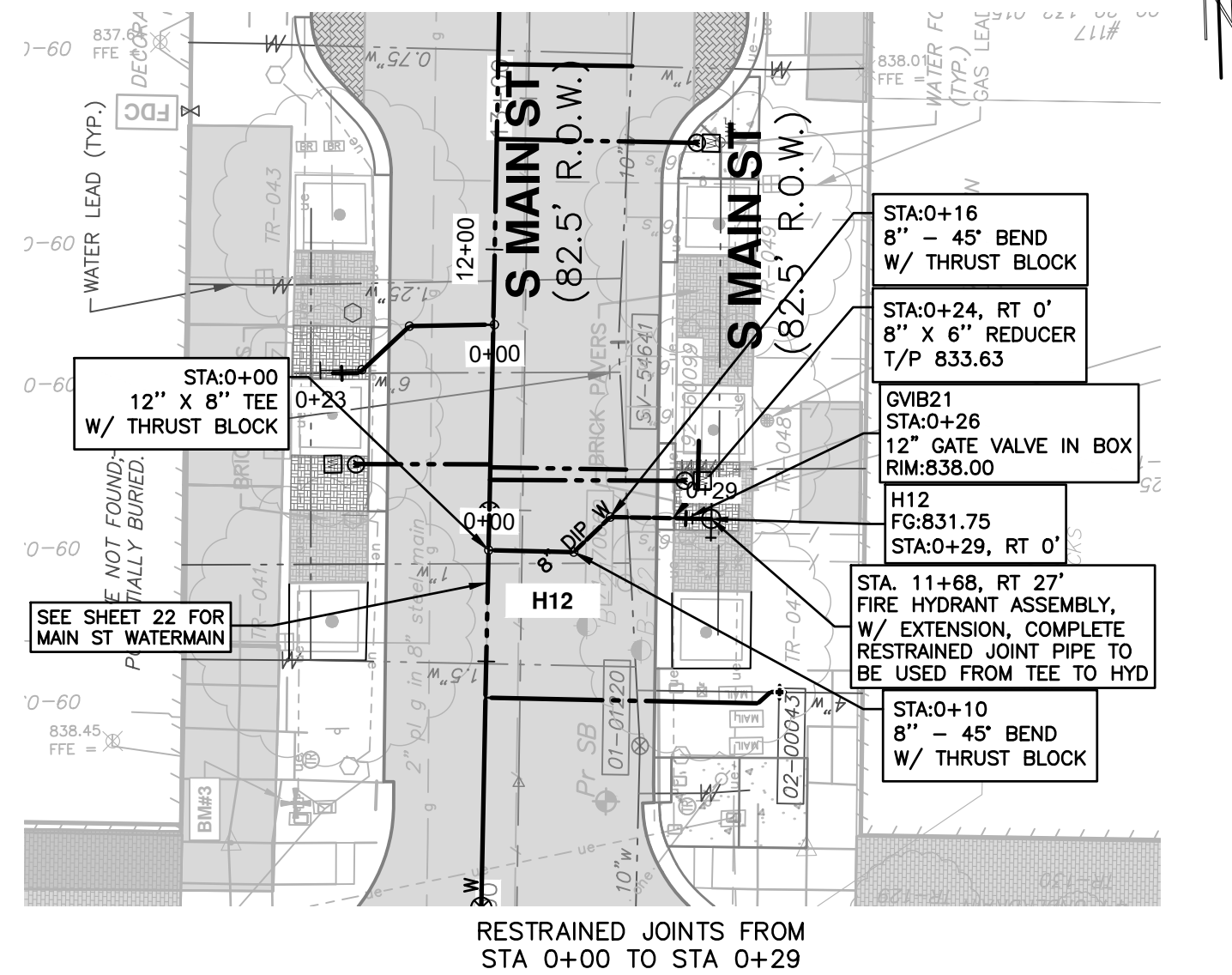
HYDRANTS 2

SCALE PLAN: 1"=20' PROFILE: 1"=5'

DRAWING No. 2020-038-30

SHEET No. 30 OF 80

REV.	DESCRIPTION	DATE	DRAWN	CHECKED



LEGEND

[Symbol]	EXISTING BUILDING VAULTS
[Symbol]	EXISTING TROLLEY TRACK FOUNDATION AREA
[Symbol]	EXISTING BRICK PAVER AREA

- NOTES**
- DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
 - THE CONTRACTOR SHALL BE AWARE THAT THE FOUNDATION/SUPPORTS FOR THE FORMER TROLLEY TRACKS EXTEND TO A VARIABLE DEPTH OF ABOUT 3'. THE LOCATIONS ARE REPRESENTED ON THE PLANS FROM THE BEST AVAILABLE INFORMATION. IF THESE FOUNDATIONS/SUPPORTS OR OLD TROLLEY TRACKS ARE ENCOUNTERED IN ANY LOCATION DURING THE PERFORMANCE OF THE WORK OF THE PROJECT, THE TRACKS, FOUNDATIONS/SUPPORTS, AND ANCILLARY MATERIALS MUST BE REMOVED FULL DEPTH IF THEY ARE CROSSED TRANSVERSELY AS PART OF THE PROJECT'S WORK. THIS WORK WILL BE PAID FOR AS "PAV'T REM, SPECIAL."

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK :EXPLORATORY EXCAVATION (0-10; DEEP)"(TRENCH DETAIL 1)

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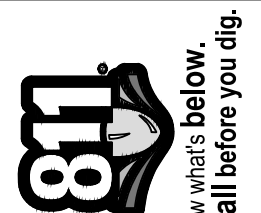
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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	FG	T/P
H3	HYD	0+20	836.33	5.50
H12	HYD	???	838.09	5.50

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB28	6" GVB	0+19	835.87	6.66
GVB21	6" GVB	0+26	838.00	7.04



Know what's below.
Call before you dig.

DATE	DESCRIPTION	REV.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

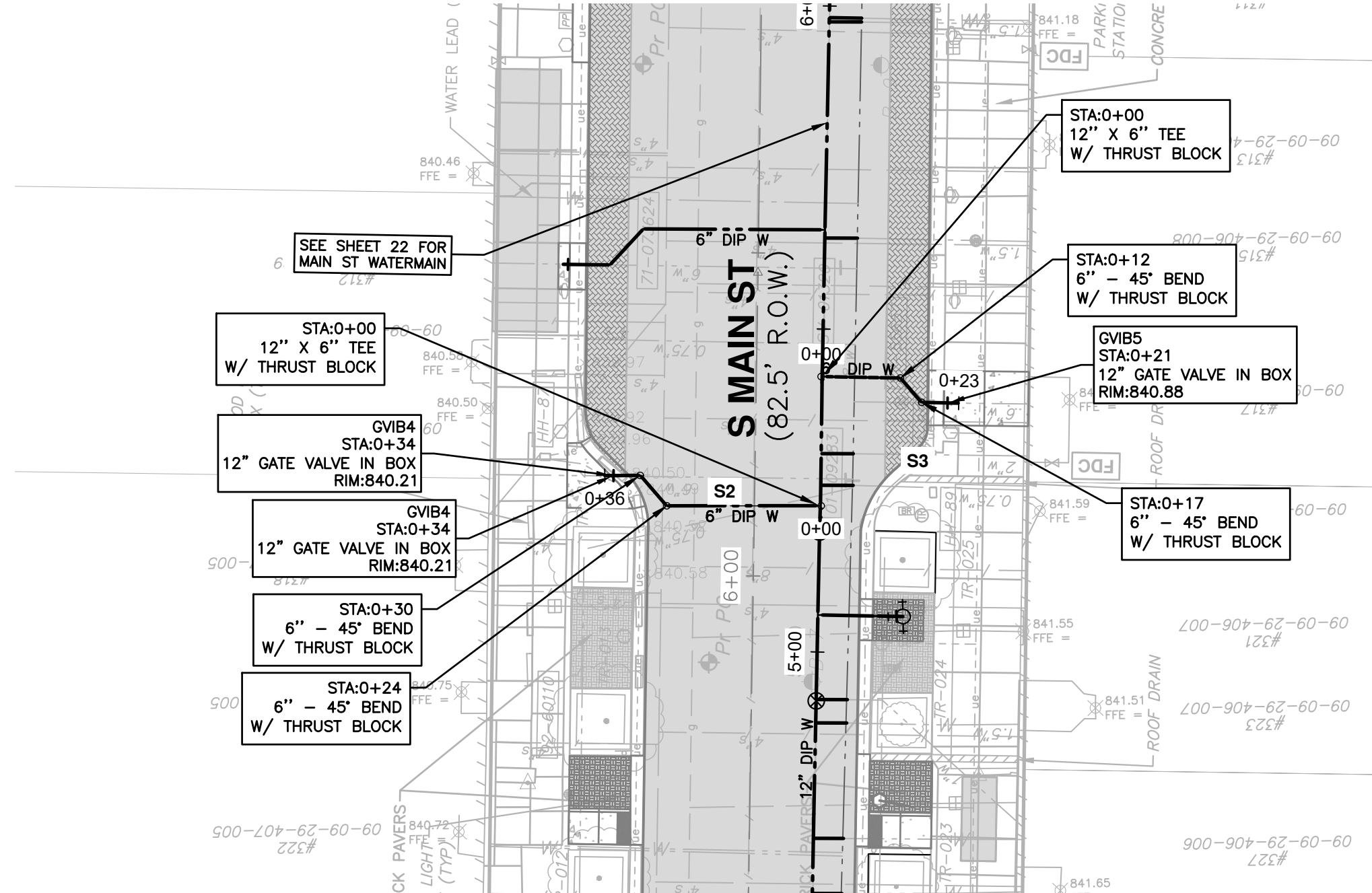
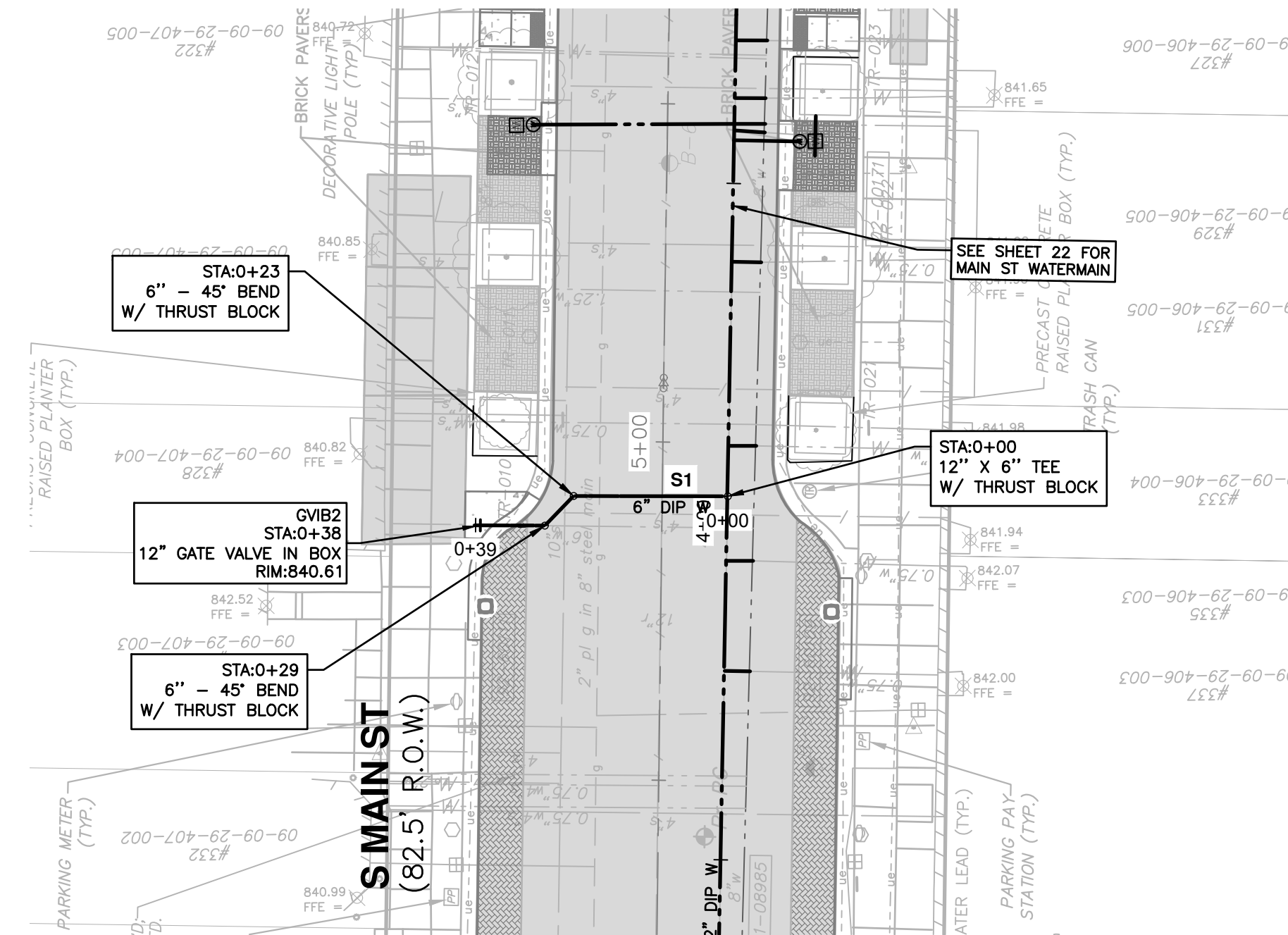
HYDRANTS 3

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
www.a2gov.org

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING No. 2020-038-31

SHEET No. 31 OF 80



LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA

NOTES

- DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
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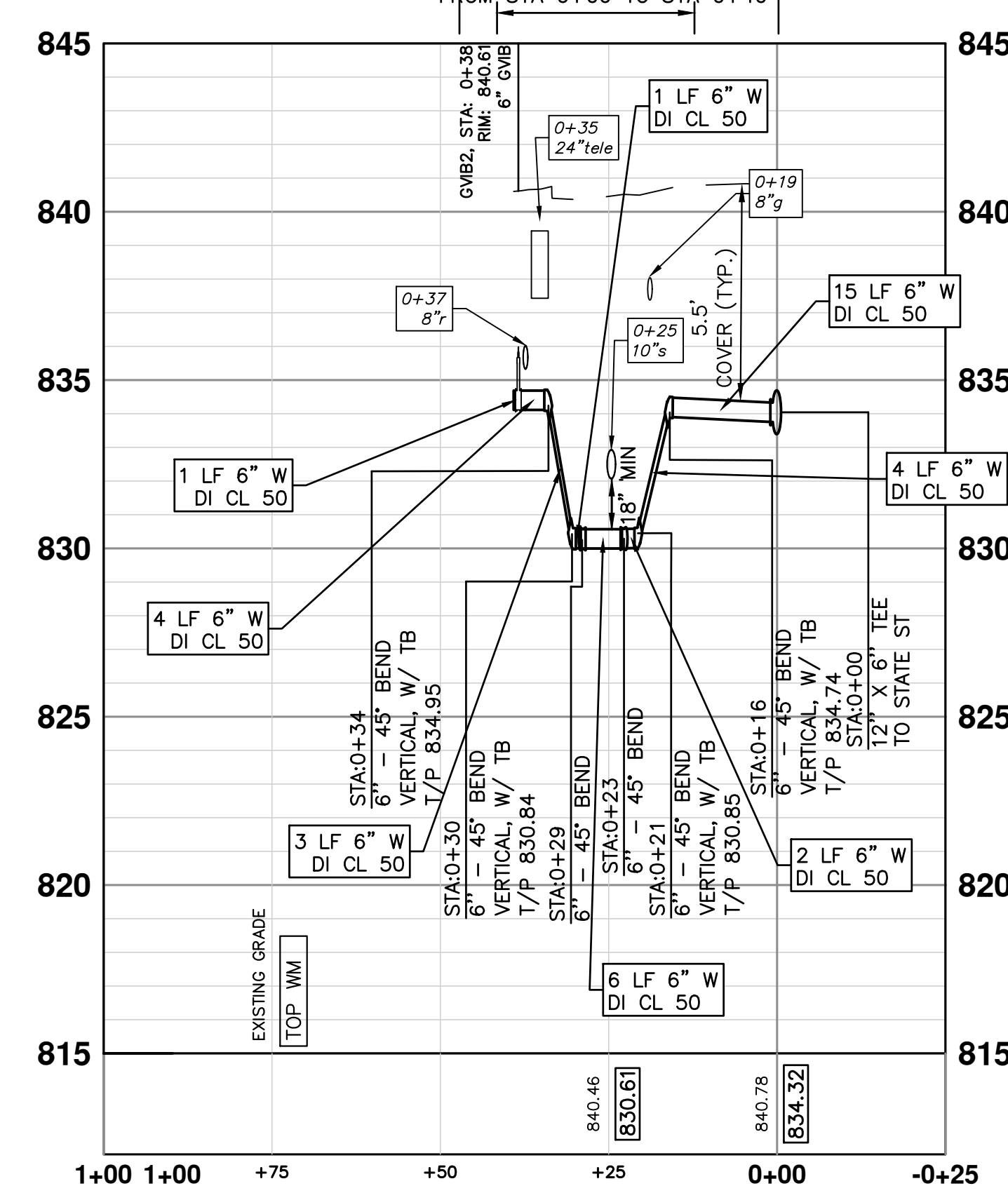


REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a3gov.org

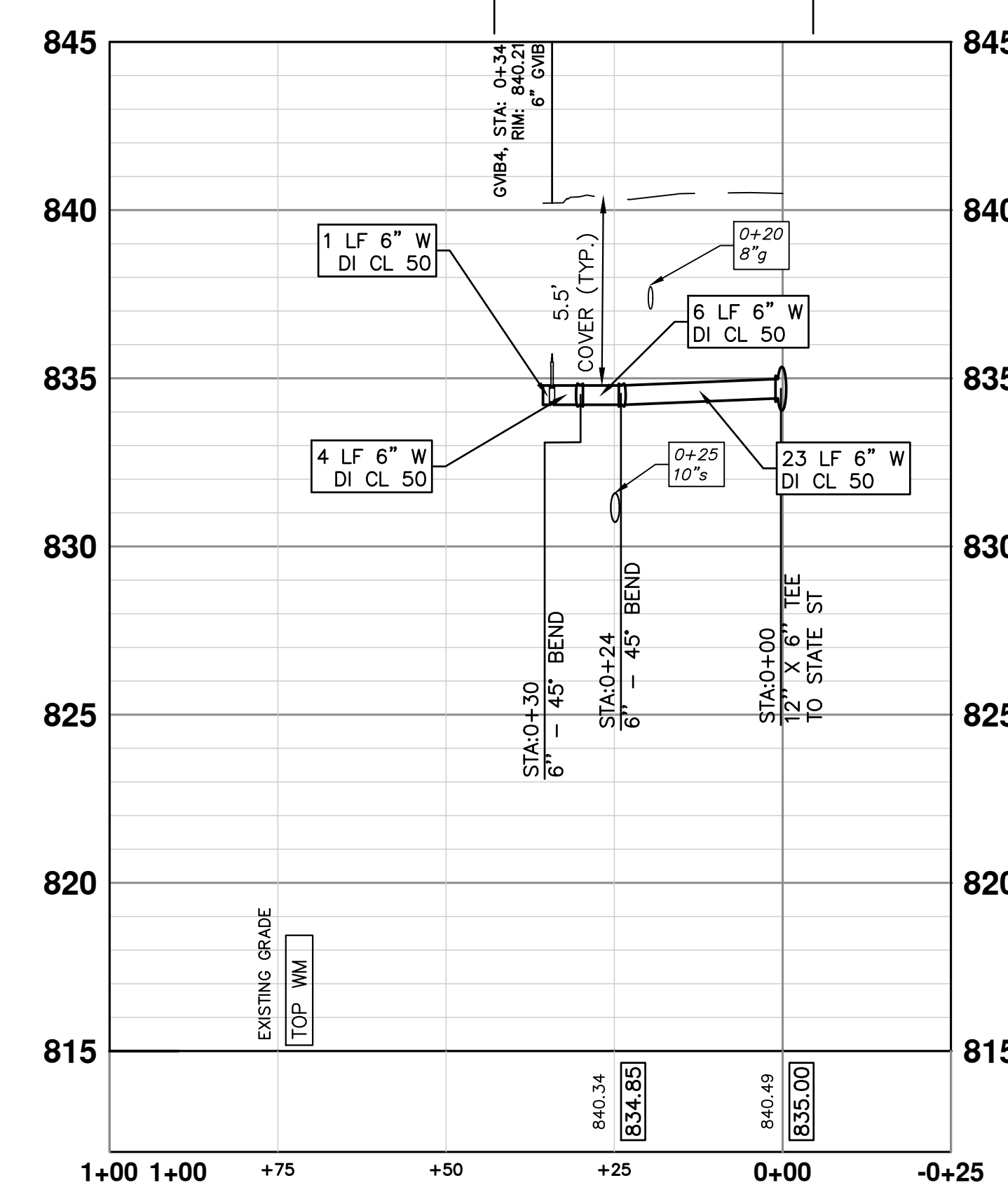


6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL 1
RESTRAINED JOINTS FROM STA 0+00 TO STA 0+40



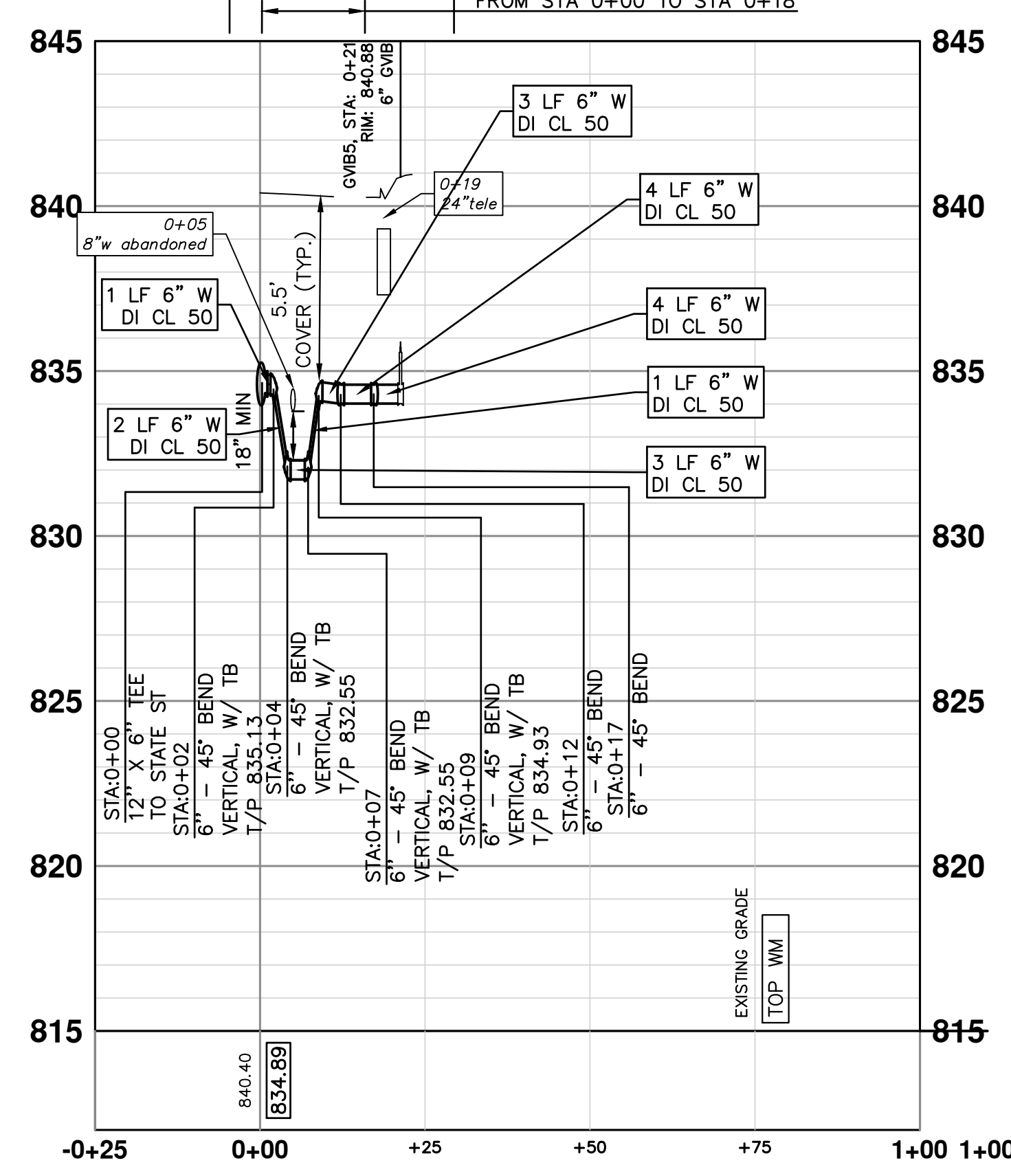
S1: 328 MAIN ST

6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL 1
RESTRAINED JOINTS FROM STA 0+00 TO STA 0+18



S2: 316 MAIN ST

6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL 1
RESTRAINED JOINTS FROM STA 0+00 TO STA 0+18



S3: 317 MAIN ST

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10; DEEP)"(TRENCH DETAIL 1)

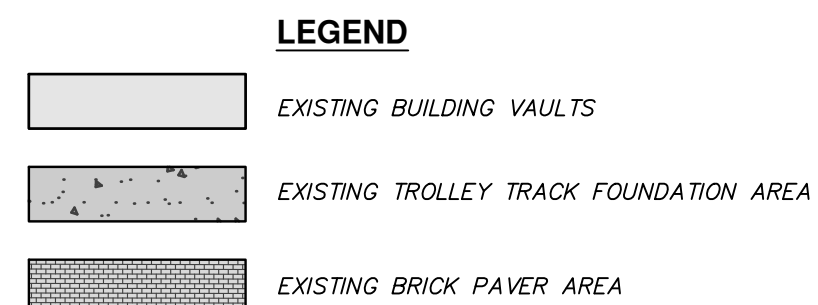
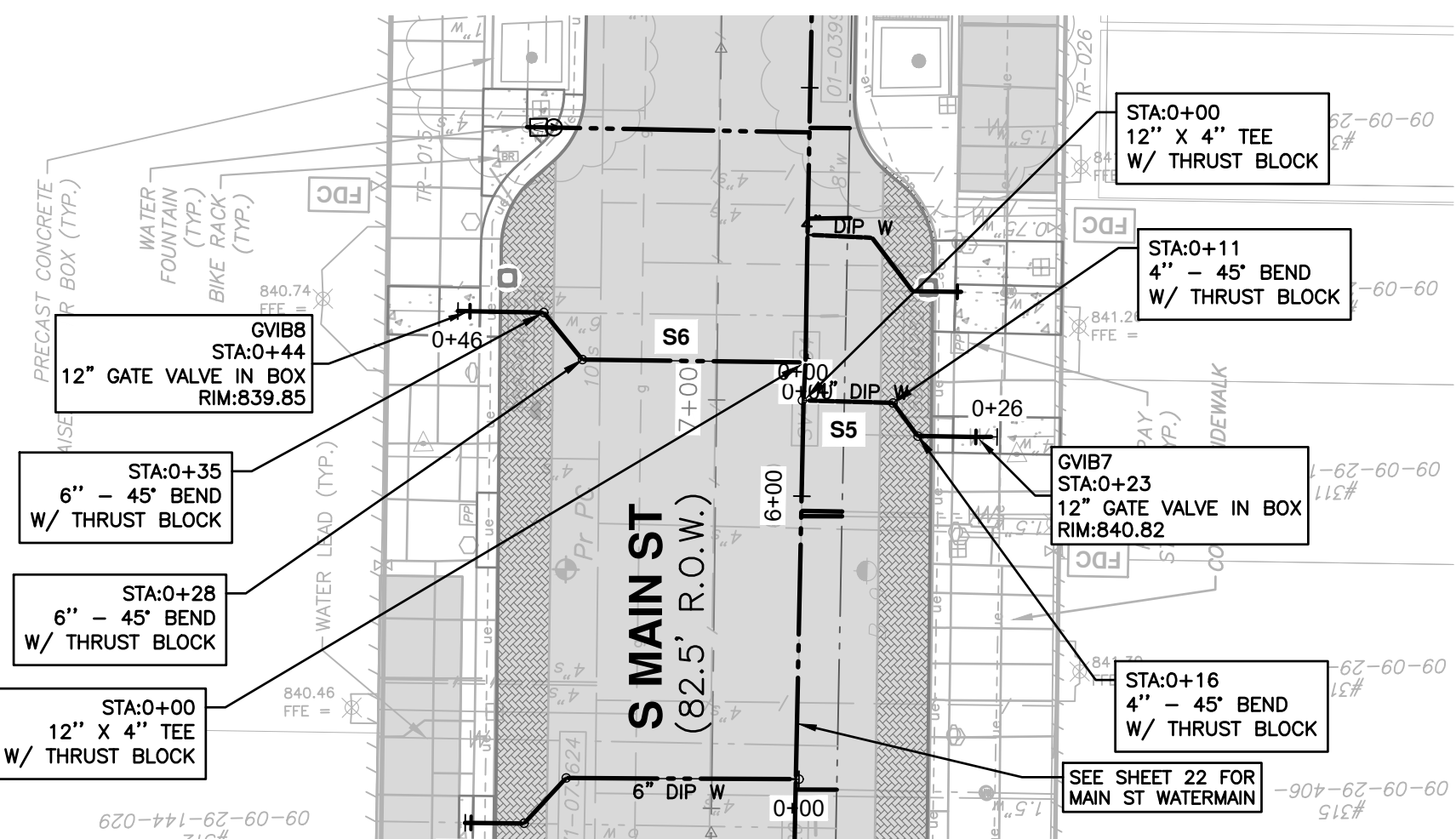
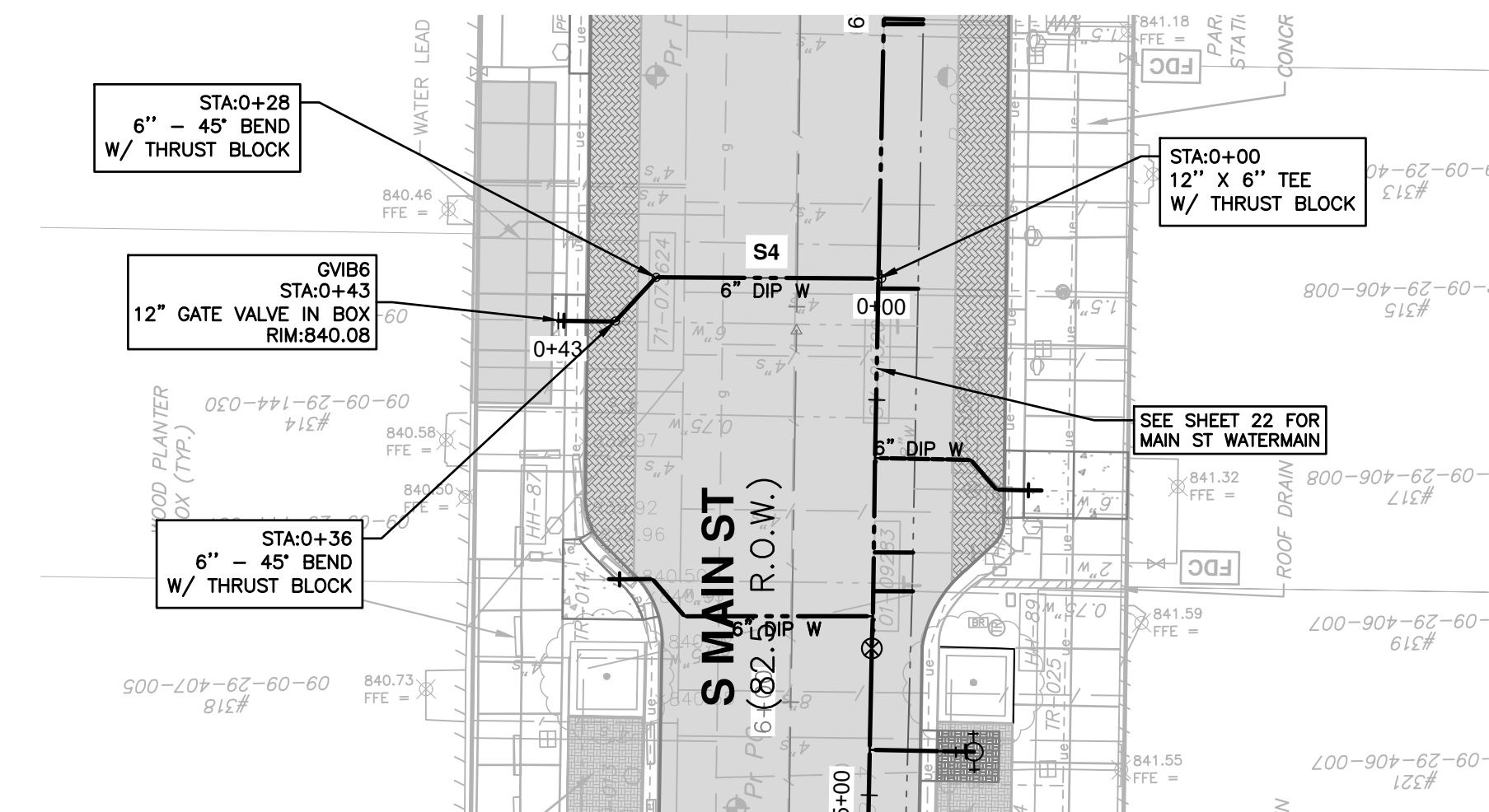
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WATER MAIN STRUCTURE TABLE

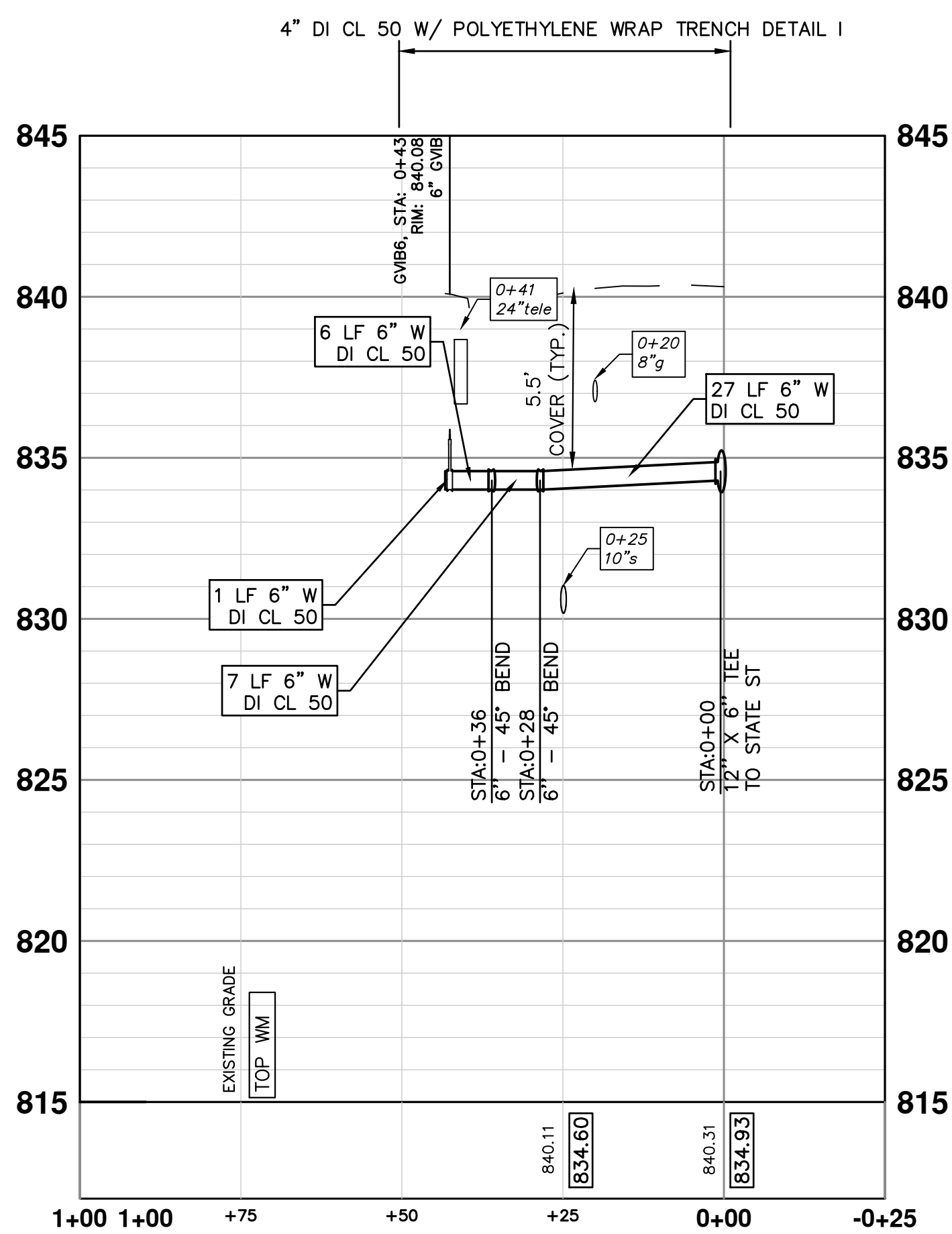
STRUCTURE	TYPE	STATION	RIM	DEPTH
GVIB5	6" GVIB	0+21	840.88	7.37
GVIB4	6" GVIB	0+34	840.21	6.41
GVIB2	6" GVIB	0+38	840.61	7.00

C:\pw_work\g1092459\CWM-PLTS-WM Lateral1.dwg Dwg Created: 18-Nov-22 - _o2 standard bw.stb - Plot Date: 21-Nov-22

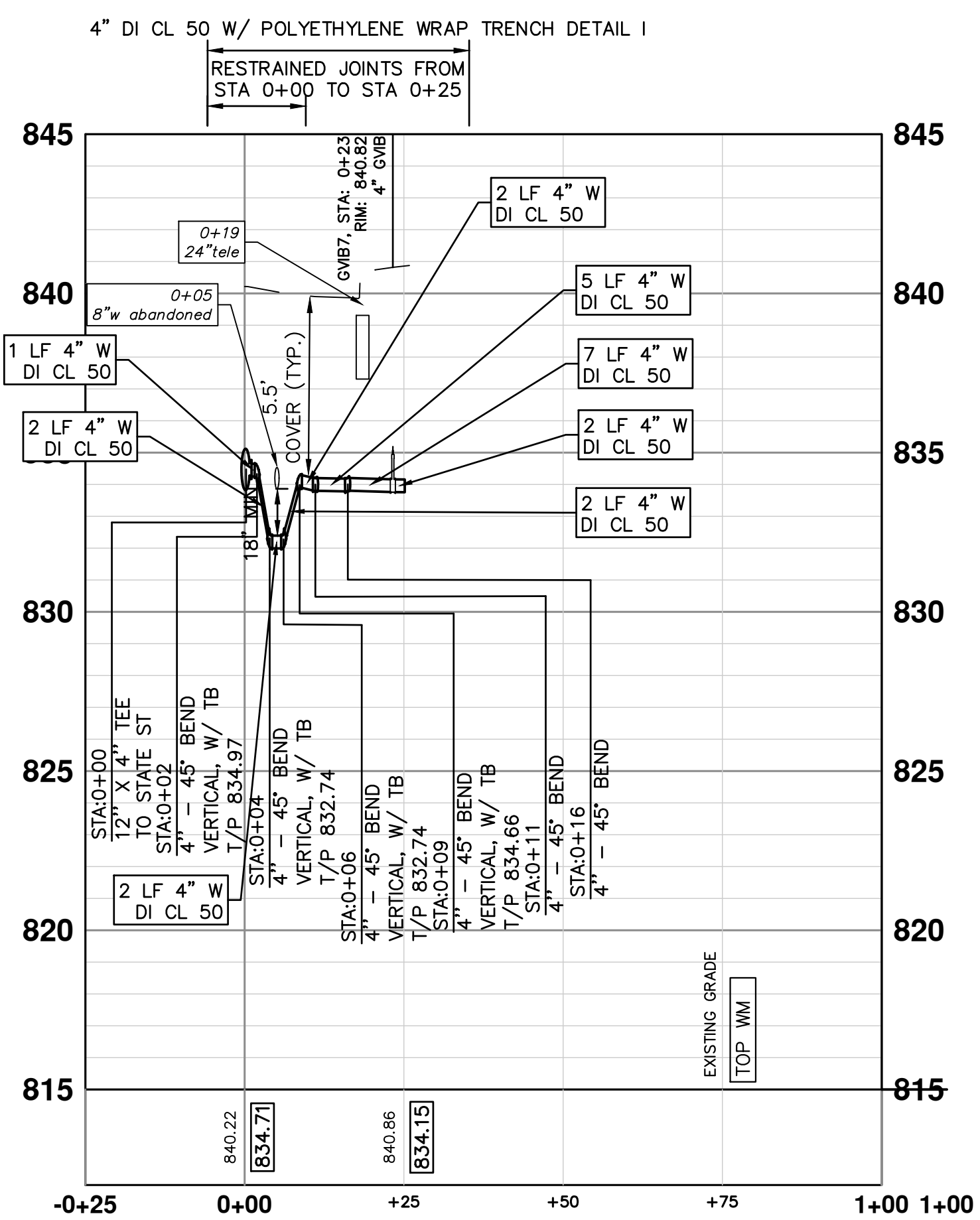


NOTES

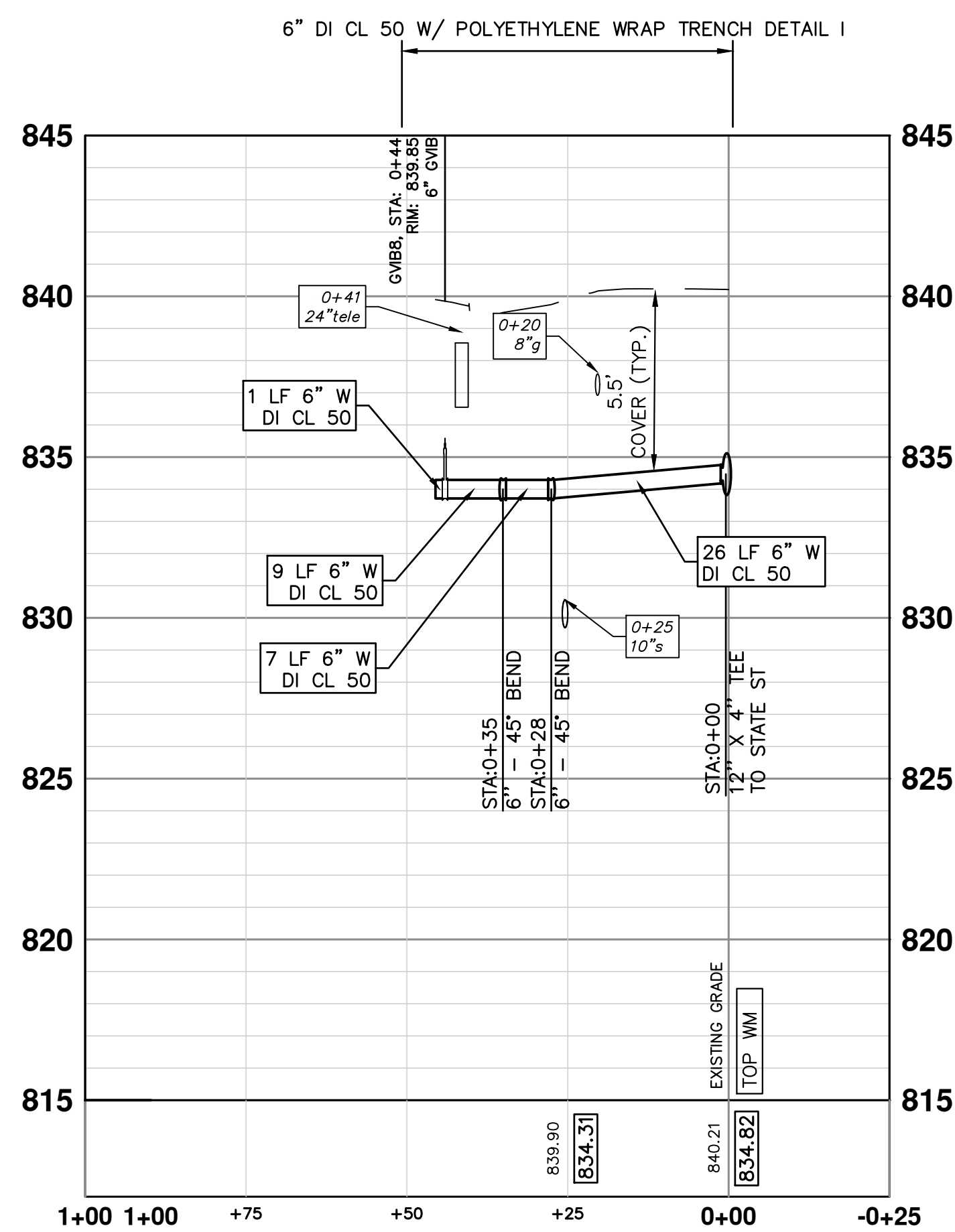
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S4: 312 MAIN ST



S5: 311 MAIN ST



S6: 306 MAIN ST

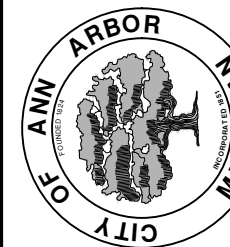
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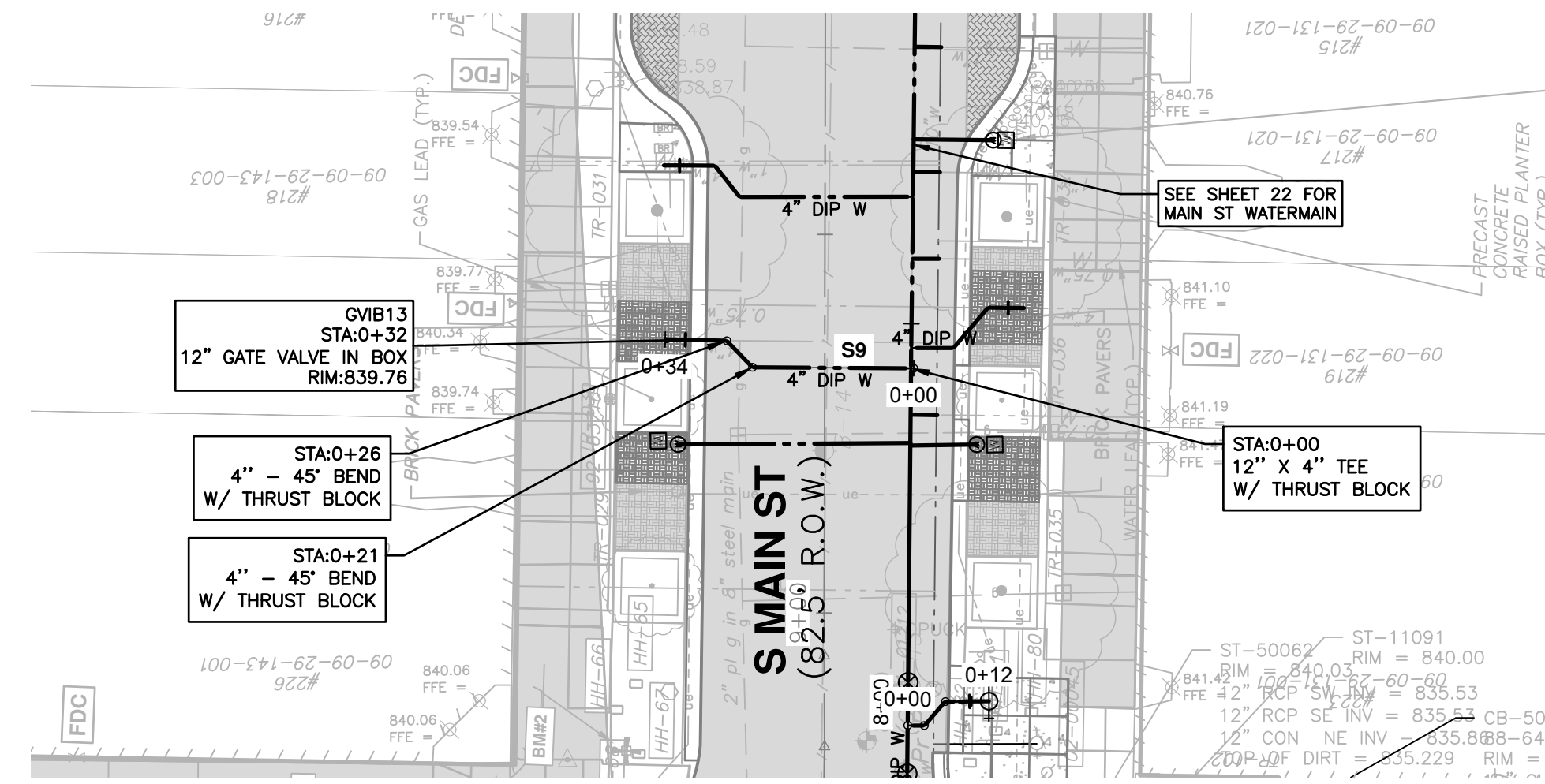
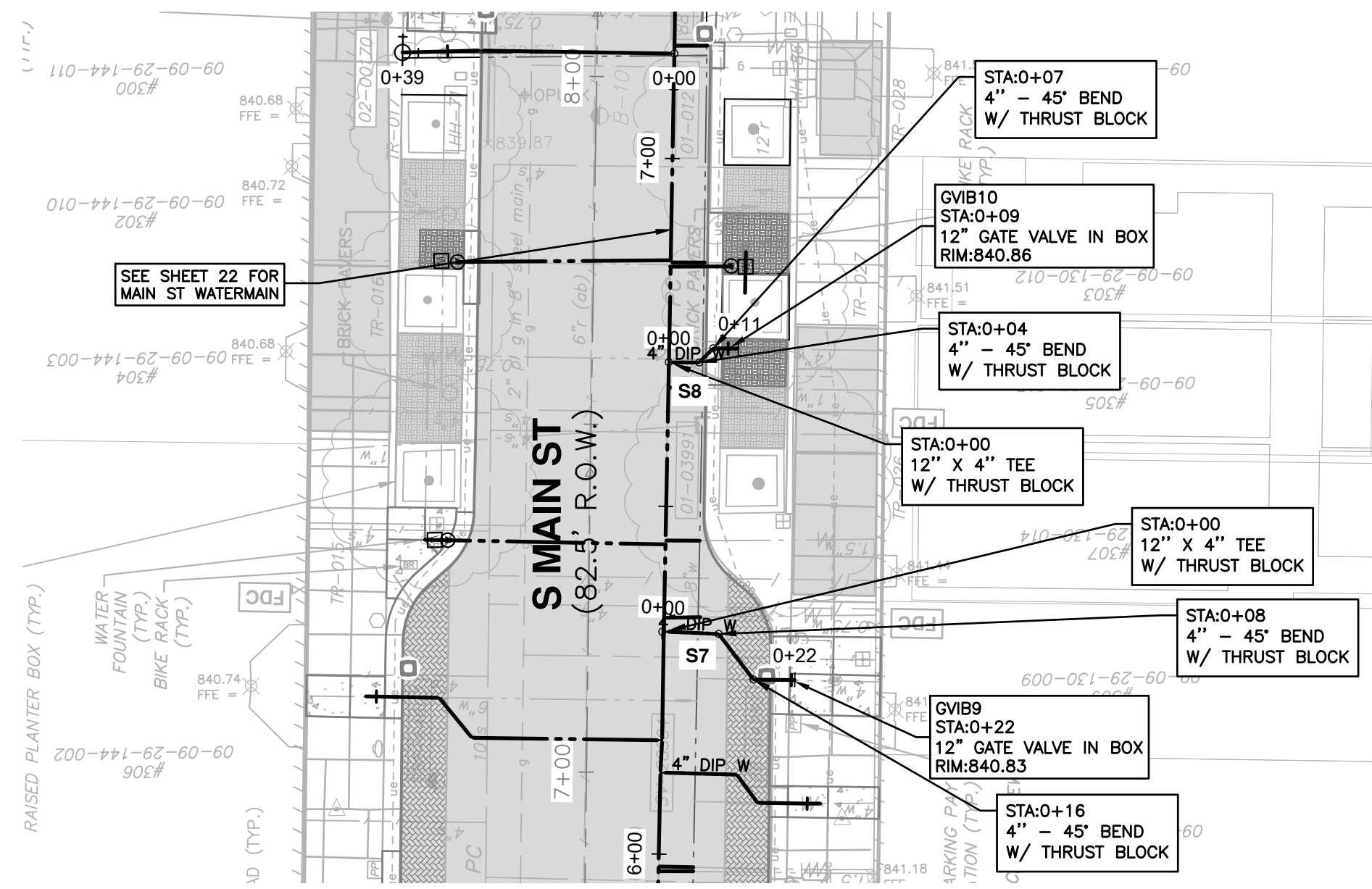
WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB7	4" GVB	0+23	840.82	7.56
GVB6	6" GVB	0+43	840.08	6.57
GVB8	6" GVB	0+44	839.85	6.63

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1647
www.a3gov.org



S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
LATERALS 2

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCALE PLAN: 1"=80'
PROFILE: 1"=5'
DRAWING NO. 2020-038-33
SHEET NO.



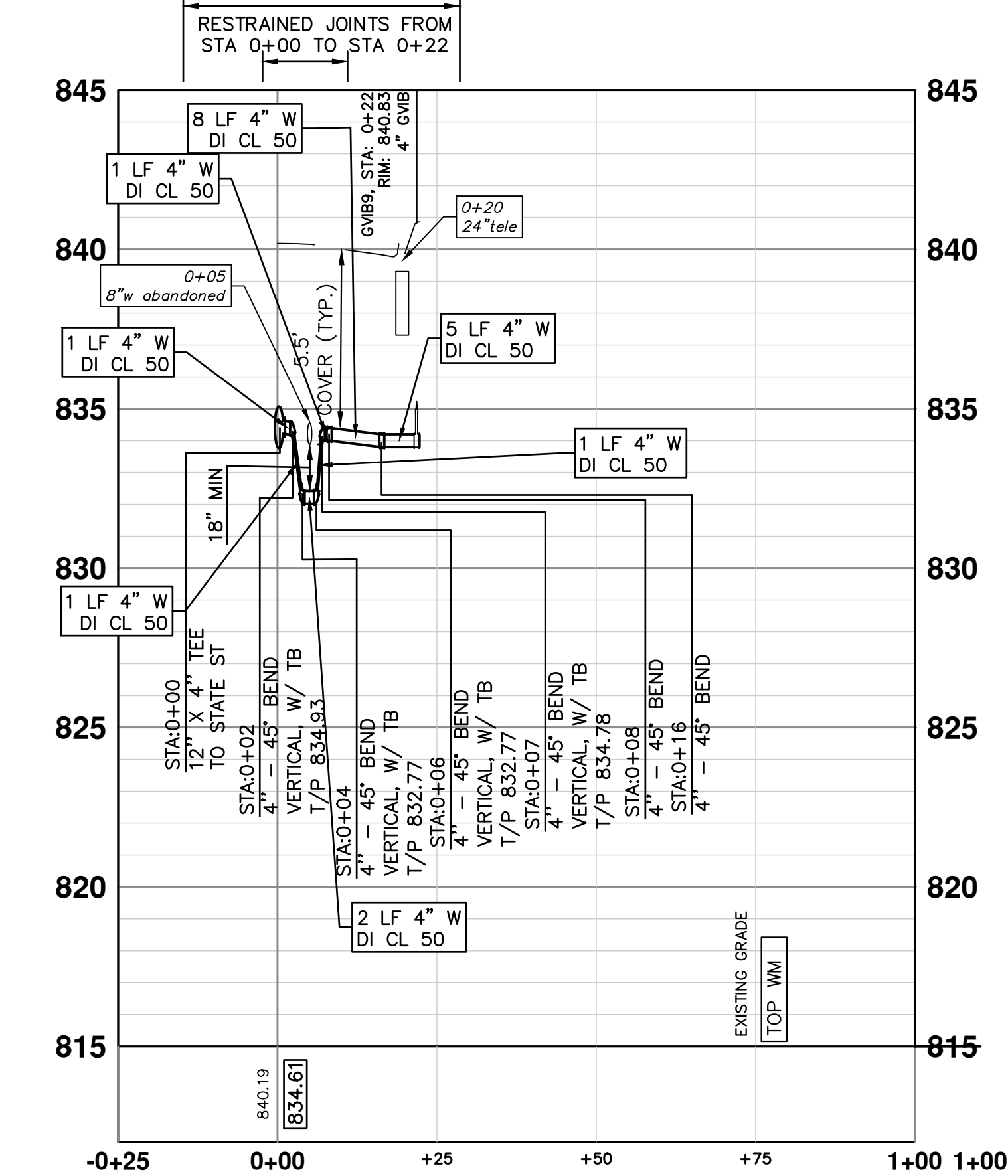
LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVEMENT AREA

NOTES

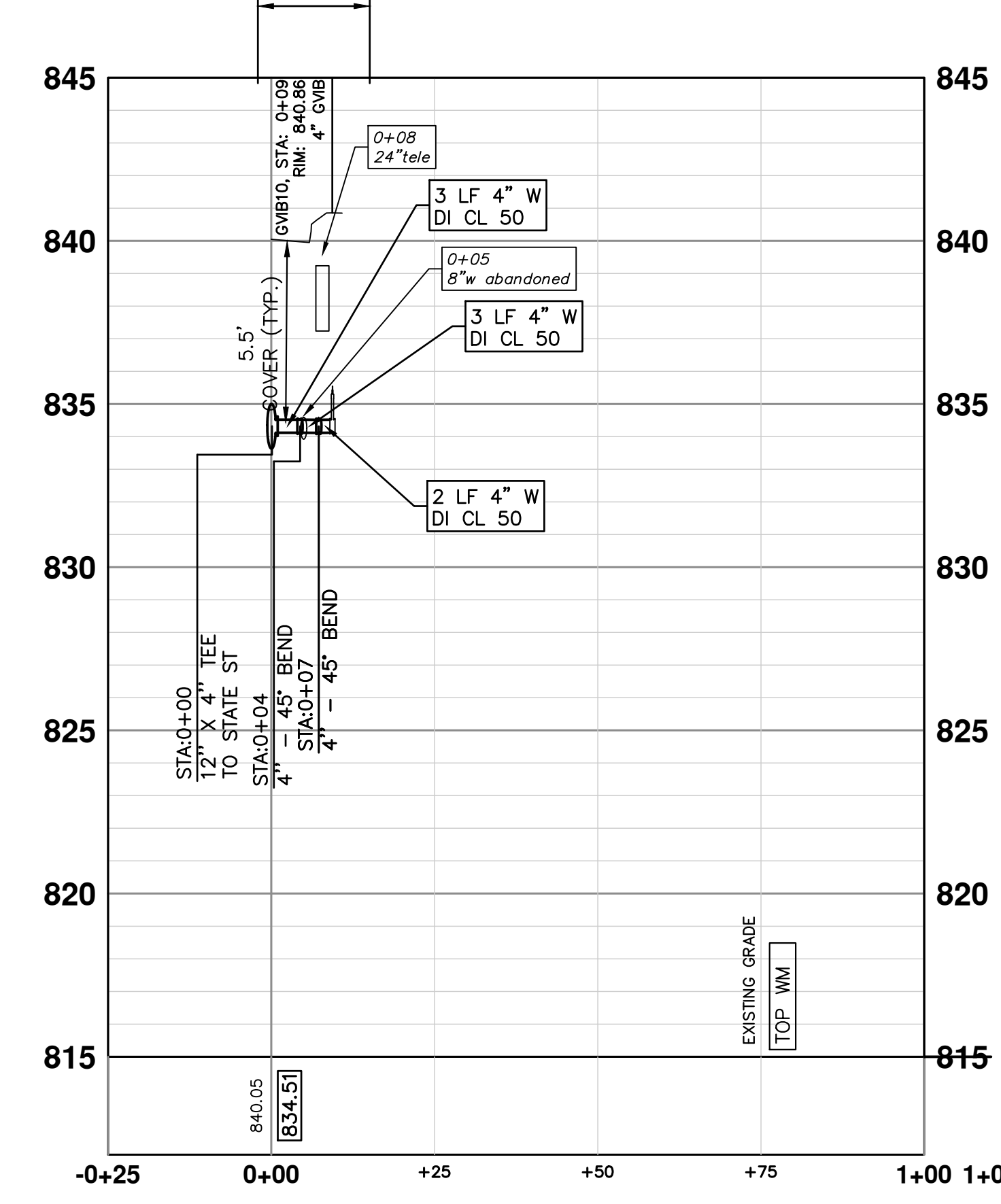
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4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



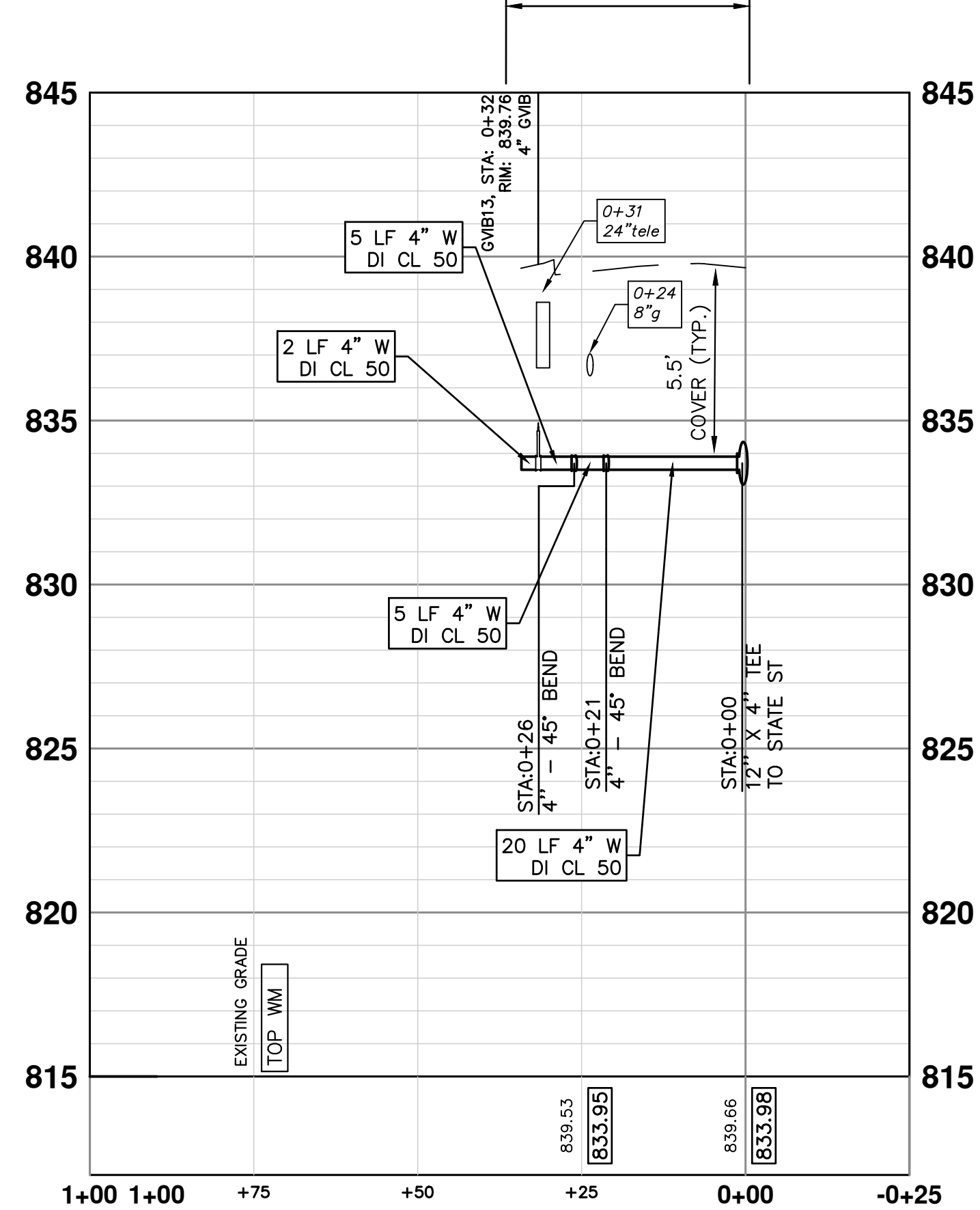
S7: 309 MAIN ST

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S8: 305 MAIN ST

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S9: 220 MAIN ST

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10; DEEP)" (TRENCH DETAIL 1)

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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB10	6" GVB	0+09	840.86	7.24
GVB9	4" GVB	0+22	840.83	7.53
GVB13	4" GVB	0+32	839.76	6.76

811 Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

LATERALS 3

SCALE PLAN: 1"=20' PROFILE: 1"=5'

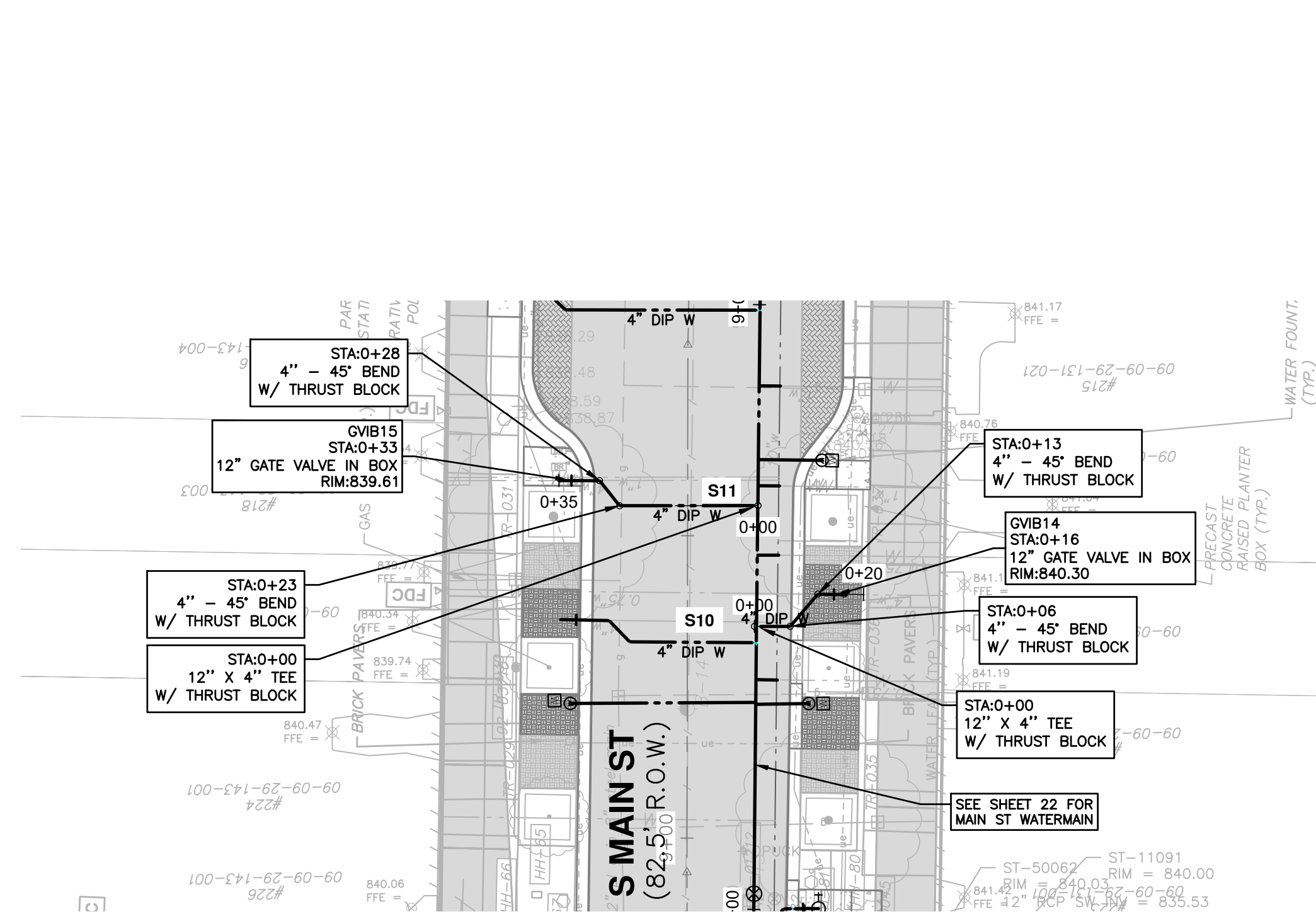
DRAWING No. 2020-038-34

SHEET No. 34 OF 80

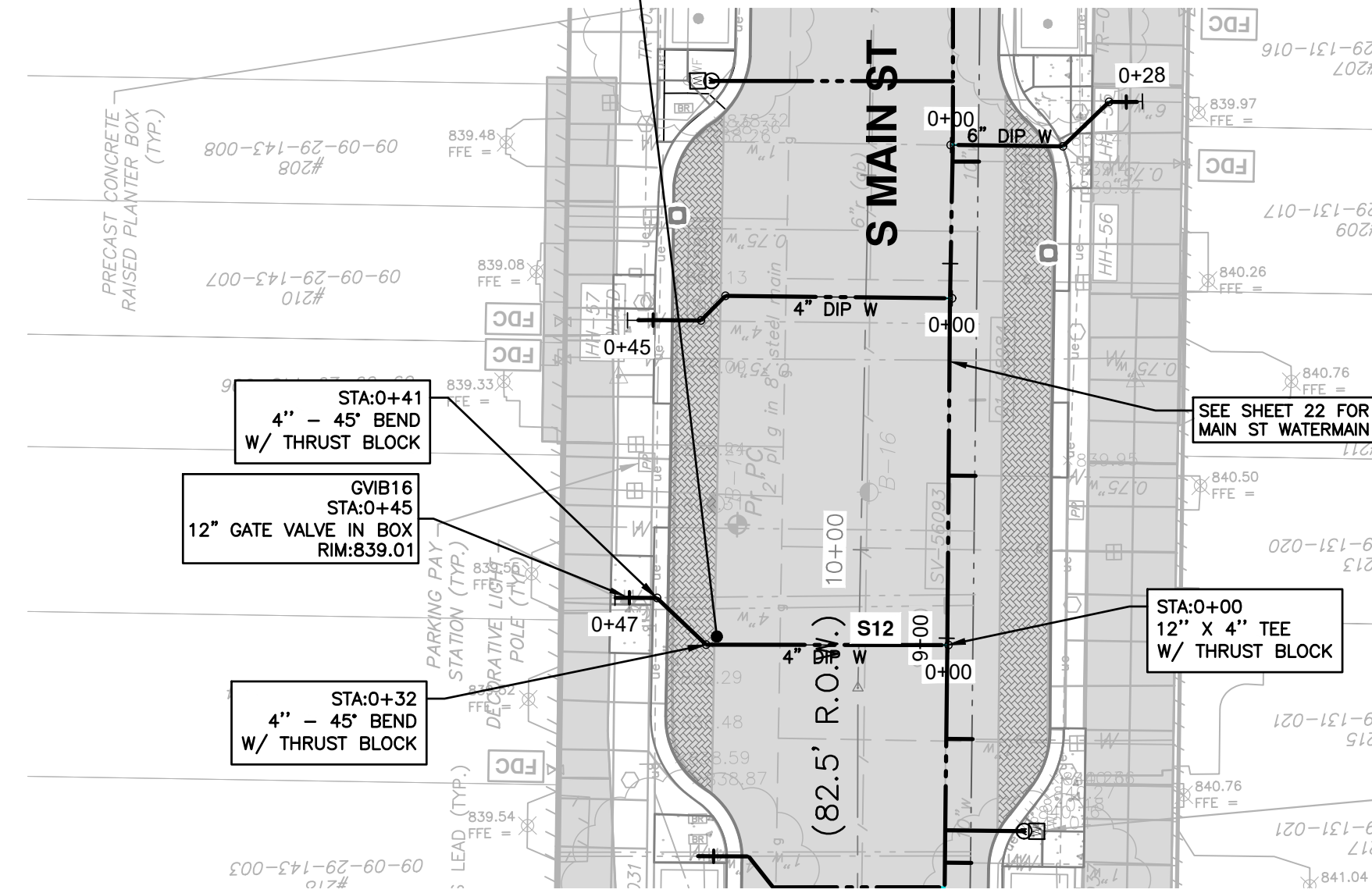
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a3gov.org

C:\pw_work\g1092459\CMM-PLTS-WM Lateral1.dwg Dwg Created: 18-Nov-22 - _a2 standard bw.stb - Plot Date: 21-Nov-22



CONTRACTOR SHALL EXPOSE WATER SERVICE AND TAKE UTMOST CARE IN AREAS ADJACENT TO UNDERGROUND VAULT. WORK TO BE PAID FOR UNDER EXPLORATORY EXCAVATION (TYP)

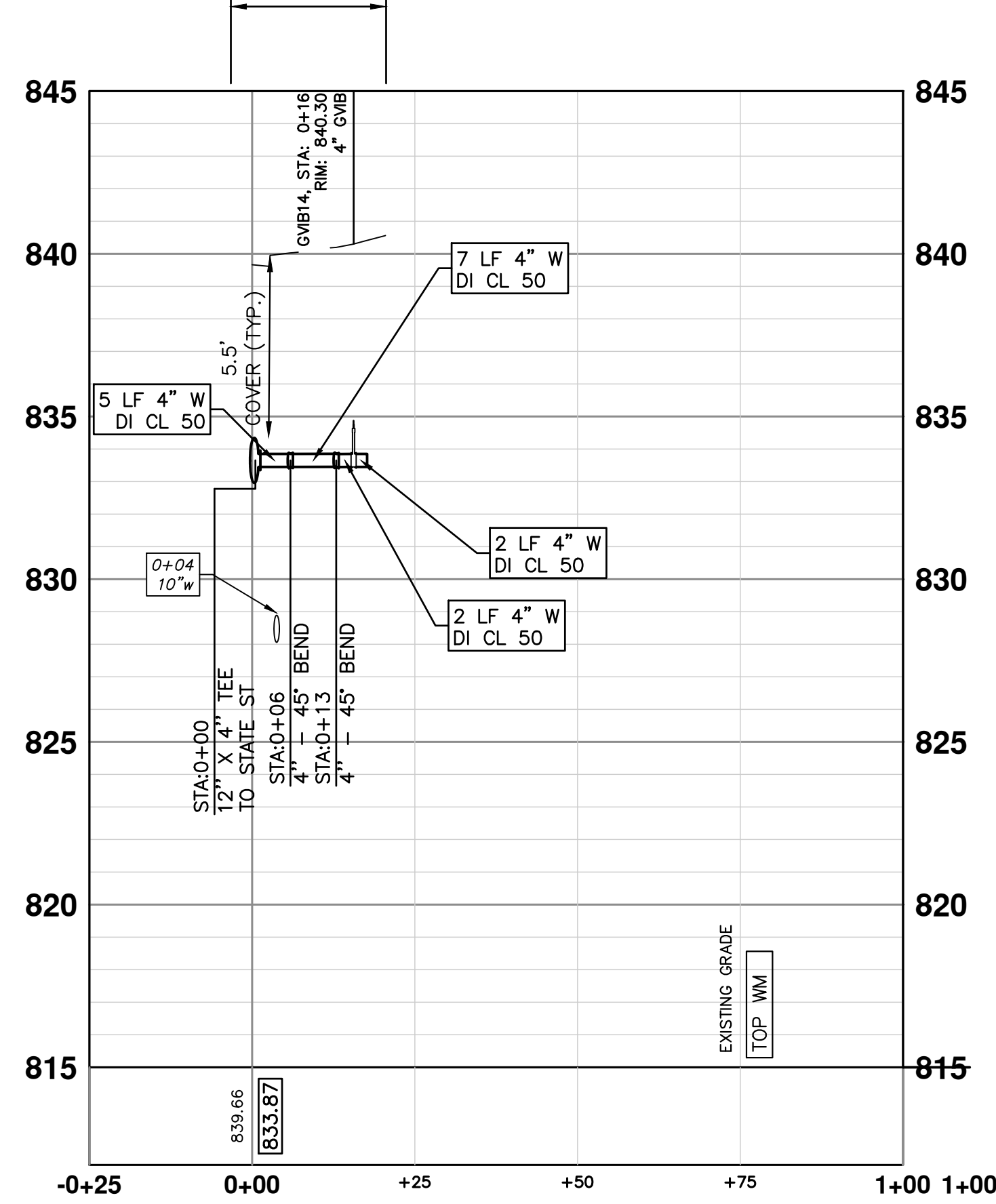


LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA

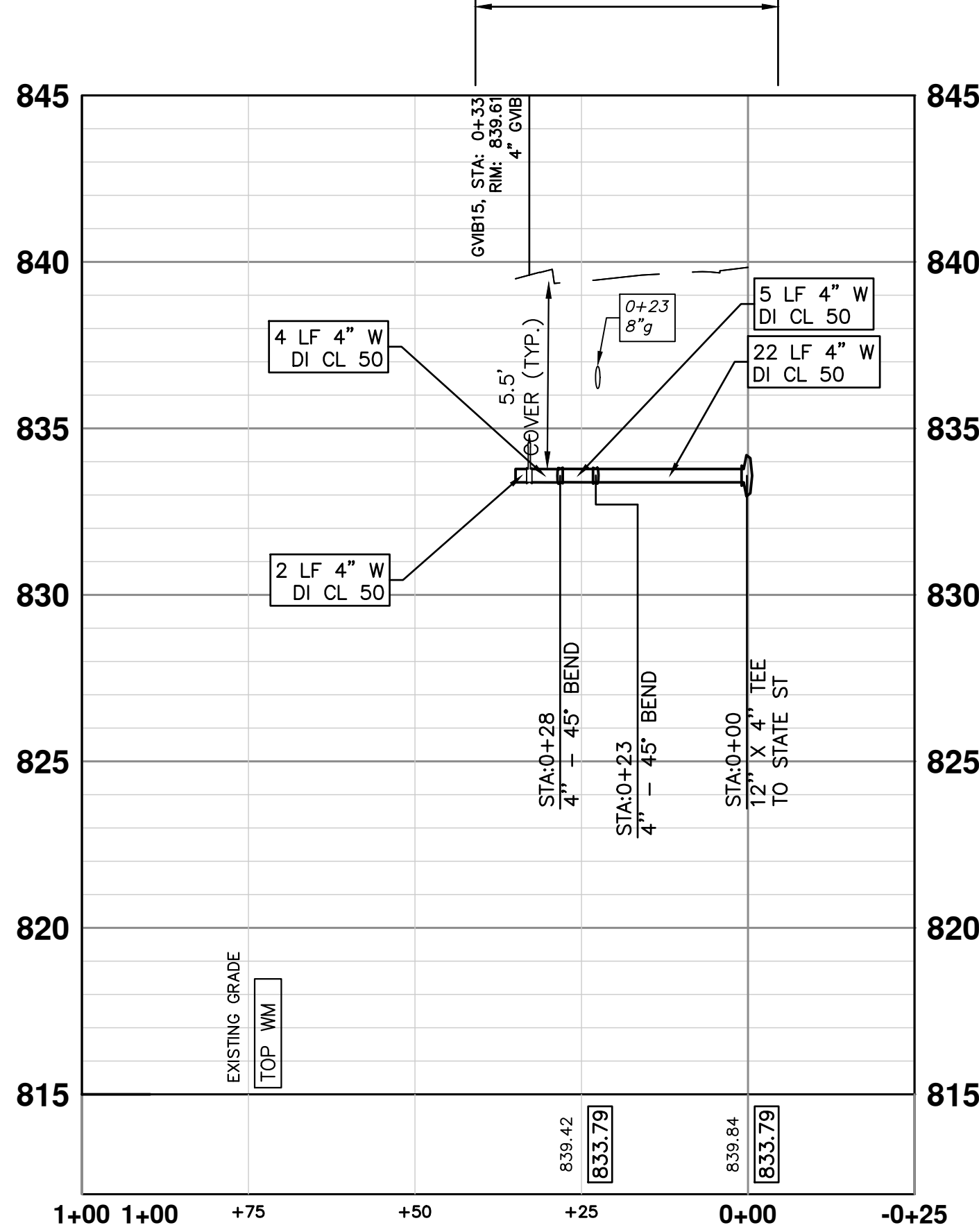
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4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



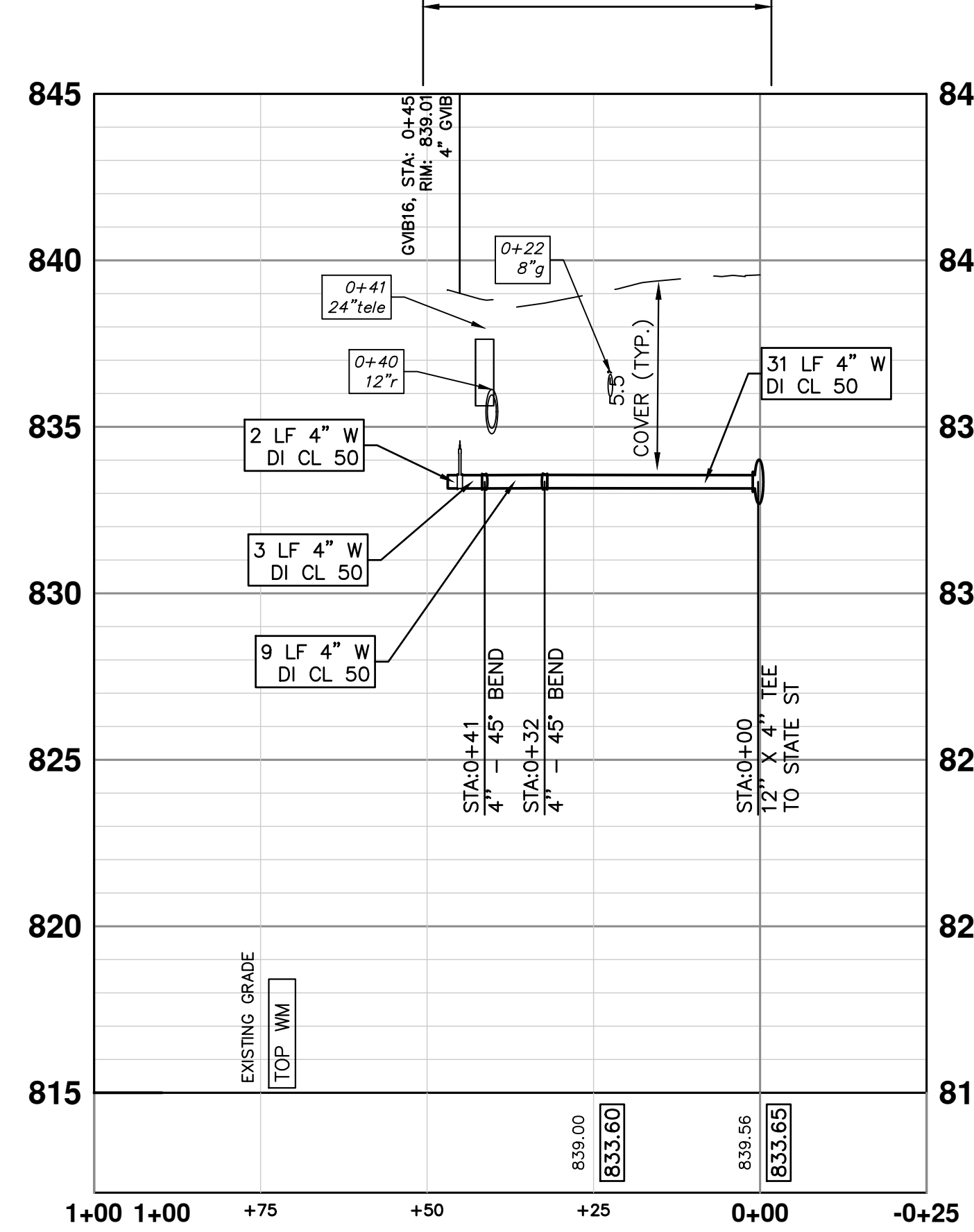
S10: 219 MAIN ST

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S11: 218 MAIN ST

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S12: 214 MAIN ST

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10; DEEP)" (TRENCH DETAIL 1)

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

THE DEPTH AND SIZE OF ELECTRICAL, TELEPHONE AND FIBER OPTIC CONDUITS/DUCTS AND THE DEPTH OF GAS MAINS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY, SUPPORT AND PROTECT DURING CONSTRUCTION AND ADJUST WATER MAIN WHERE NECESSARY TO MAINTAIN 12-INCHES VERTICAL CLEARANCE FROM ALL UTILITIES (EXCEPT SANITARY AND STORM SEWER WHERE 18-INCHES IS REQUIRED). THIS WORK IS PAID FOR UNDER GENERAL CONDITIONS, MAX.

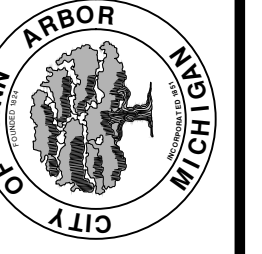
WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB14	4" GVB	0+16	840.30	7.35
GVB15	4" GVB	0+33	839.61	6.72
GVB16	4" GVB	0+45	839.01	6.36



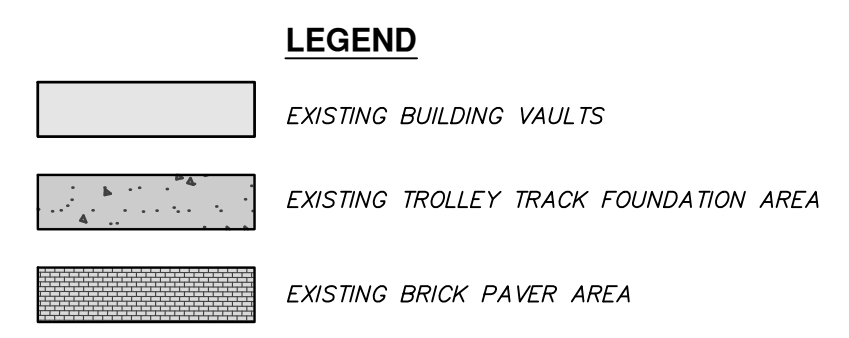
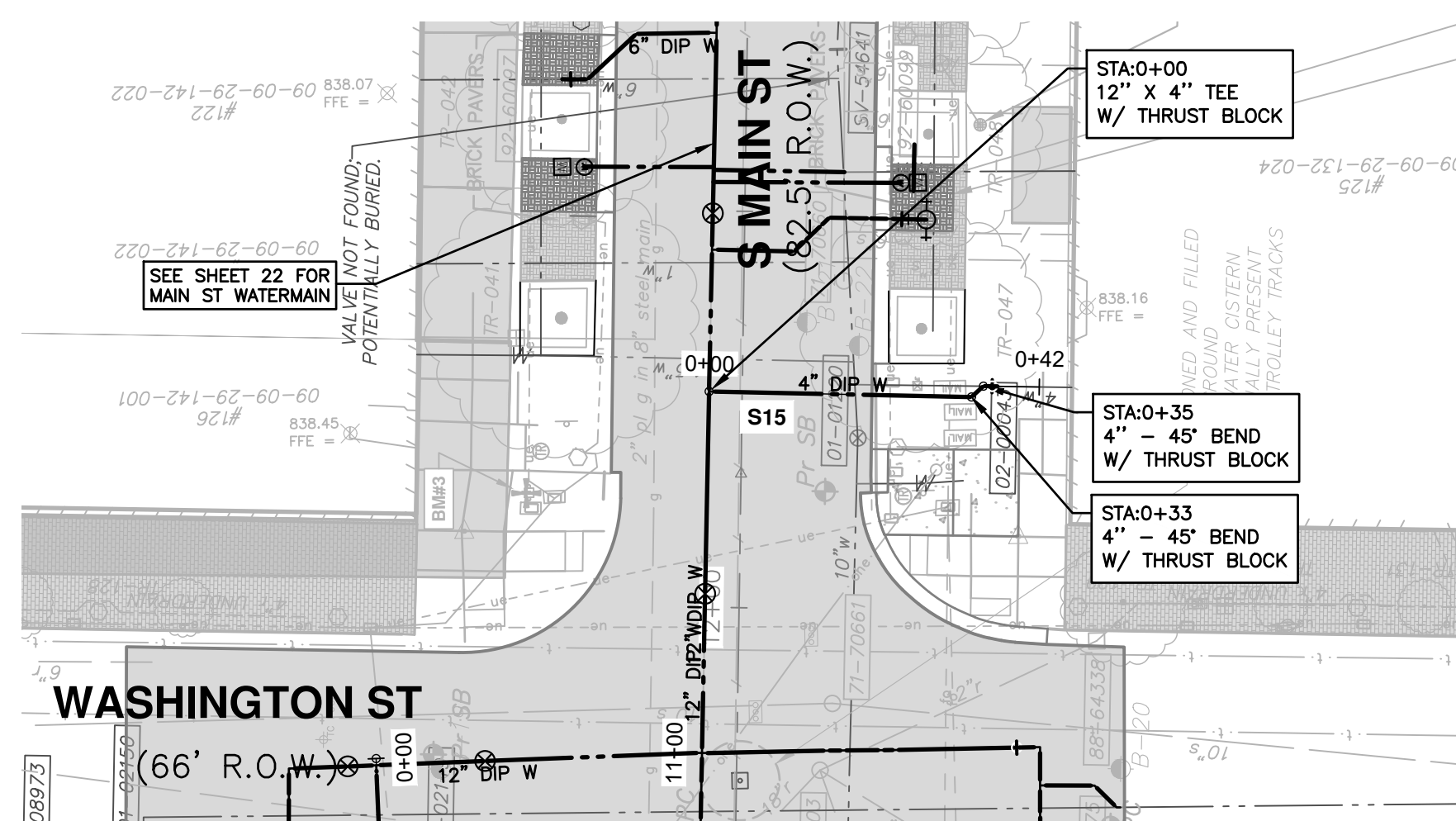
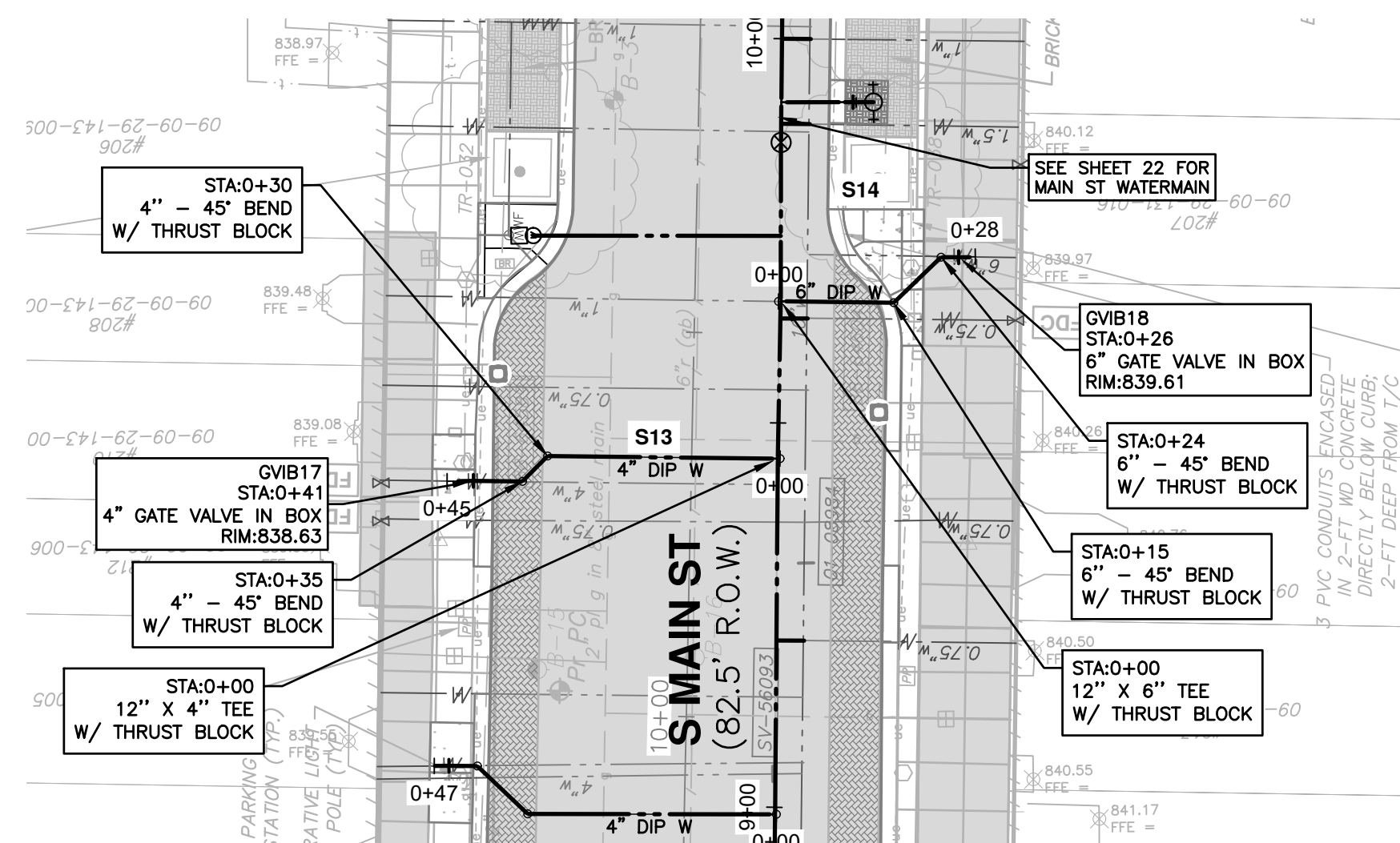
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-0647
www.a3gov.org



S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
LATERALS 4

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCALE PLAN: 1"=20'
PROFILE: 1"=5'
DRAWING No. 2020-038-35
SHEET No.

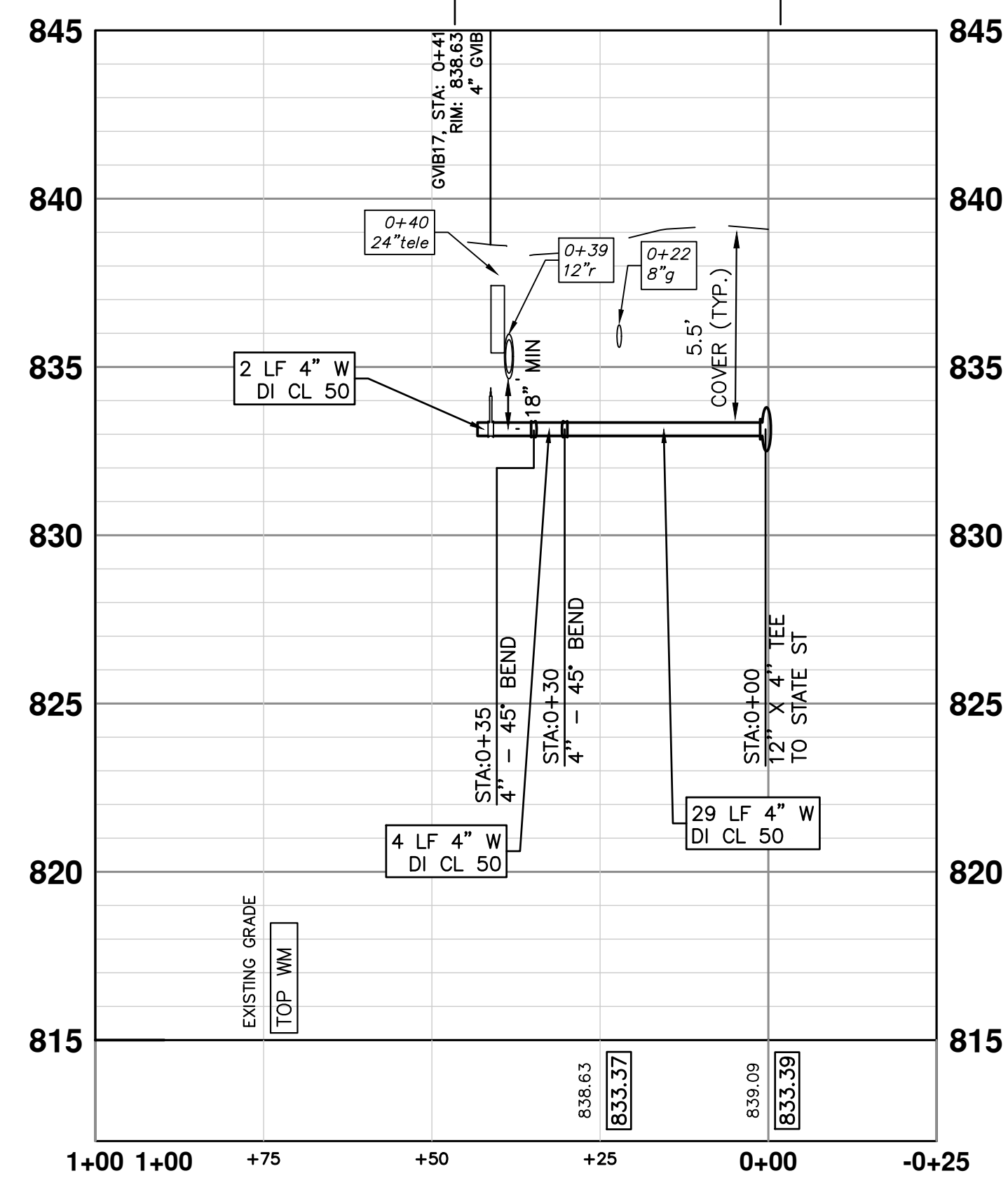


NOTES

1: DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE, OR HAVE HAD, LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A GALVANIZED STEEL OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."

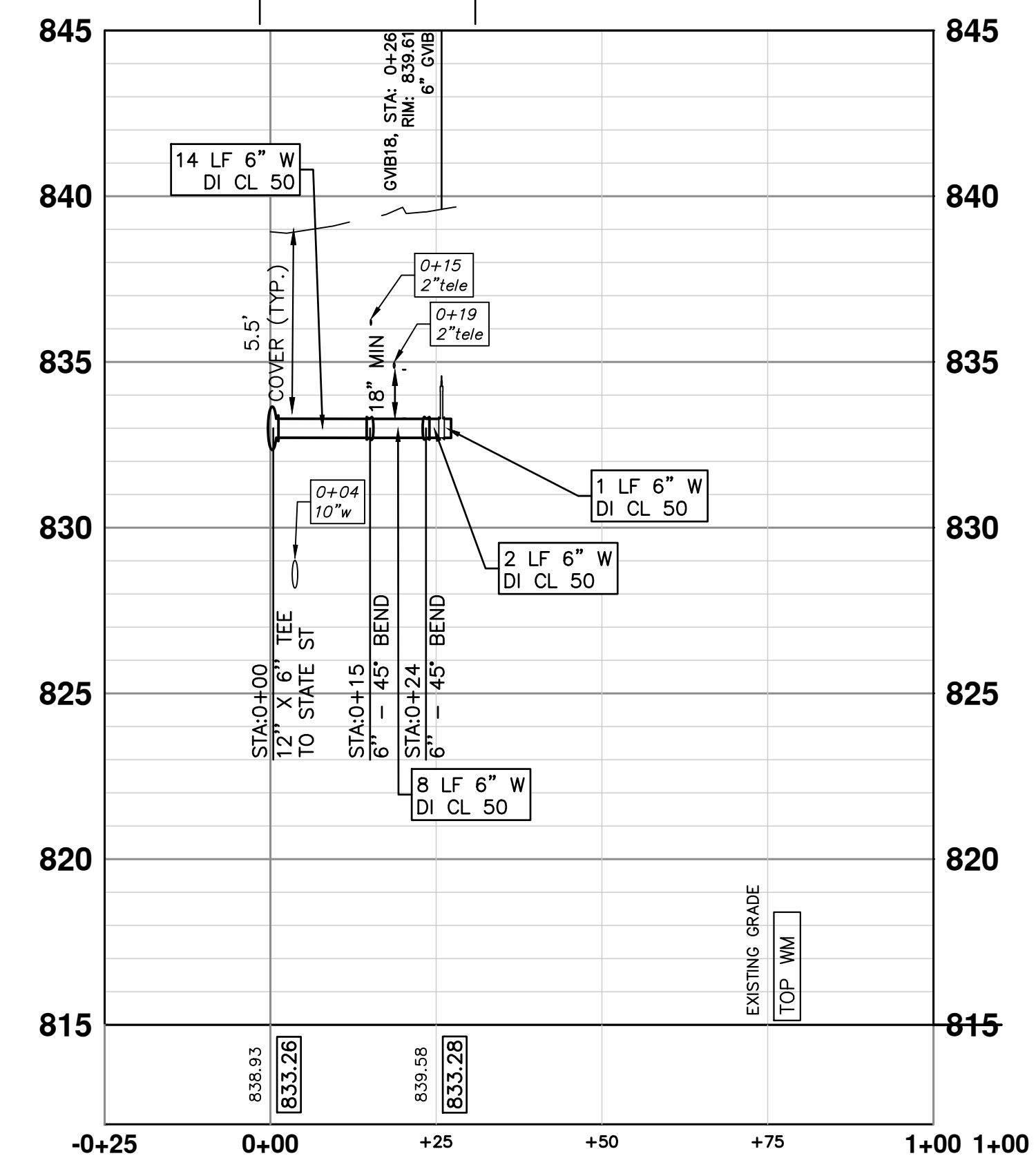
2: THE CONTRACTOR SHALL BE AWARE THAT THE FOUNDATION/SUPPORTS FOR THE FORMER TROLLEY TRACKS EXTEND TO A VARIABLE DEPTH OF ABOUT 3'. THE LOCATIONS ARE REPRESENTED ON THE PLANS FROM THE BEST AVAILABLE INFORMATION. IF THESE FOUNDATIONS/SUPPORTS OR OLD TROLLEY TRACKS ARE ENCOUNTERED IN ANY LOCATION DURING THE PERFORMANCE OF THE WORK OF THE PROJECT, THE TRACKS, FOUNDATIONS/SUPPORTS, AND ANCILLARY MATERIALS MUST BE REMOVED FULL DEPTH IF THEY ARE CROSSED TRANSVERSELY AS PART OF THE PROJECT'S WORK. THIS WORK WILL BE PAID FOR AS "PAVT REM, SPECIAL."

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



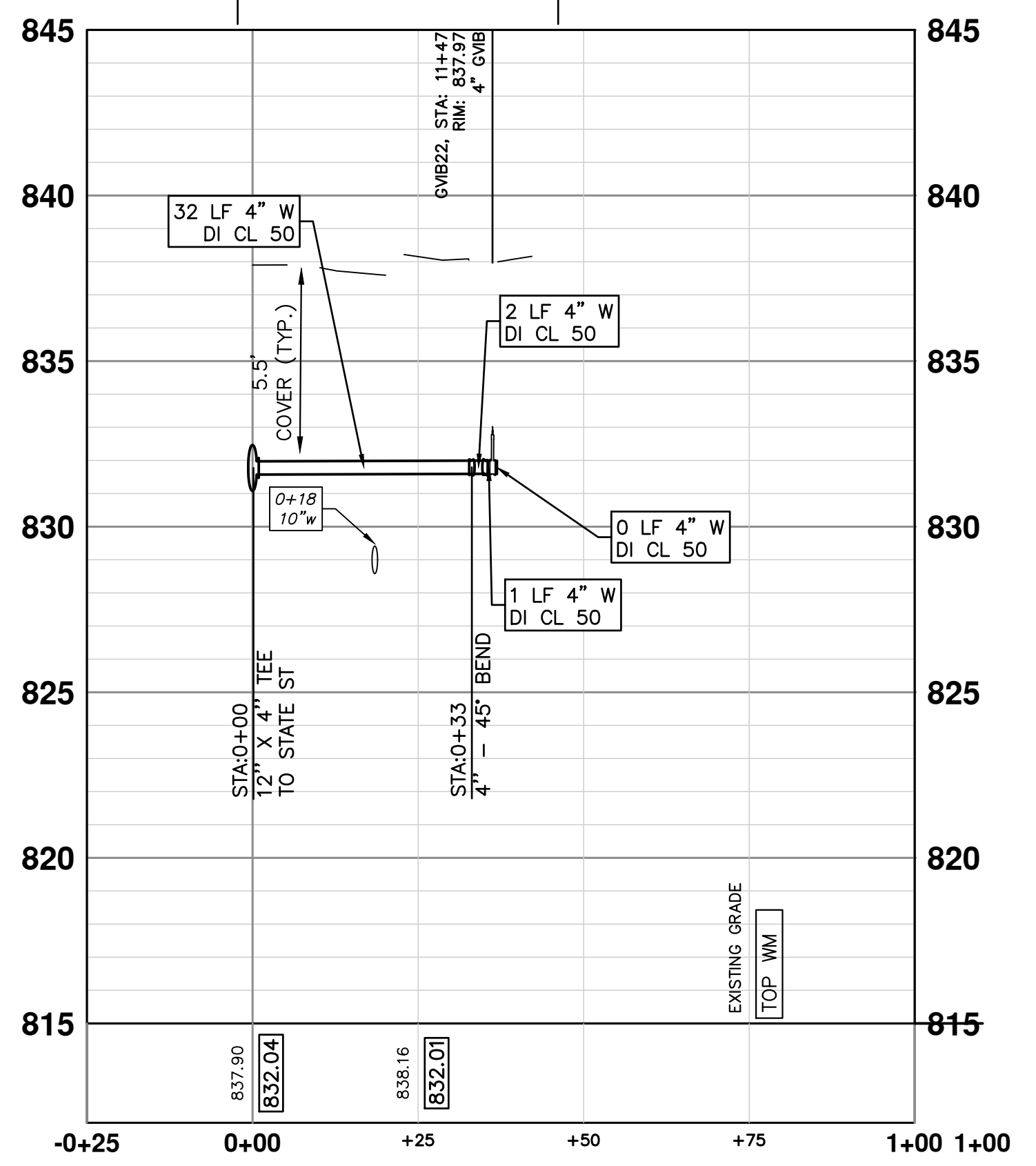
S13: 210 MAIN ST

6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S14: 207 MAIN ST

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S15: 125 MAIN ST

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10; DEEP)" (TRENCH DETAIL 1)

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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB18	6" GVB	0+26	839.61	7.40
GVB17	4" GVB	0+41	838.63	6.18

811
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
LATERALS 5

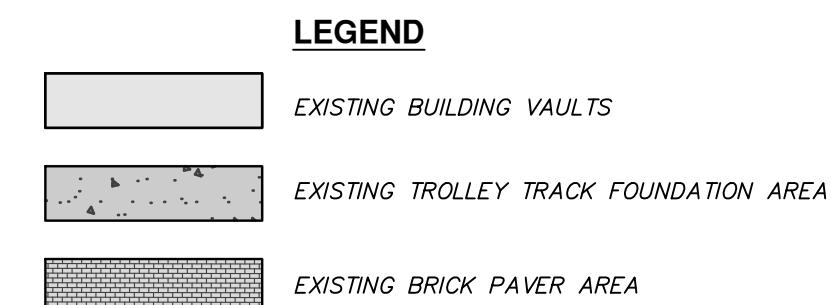
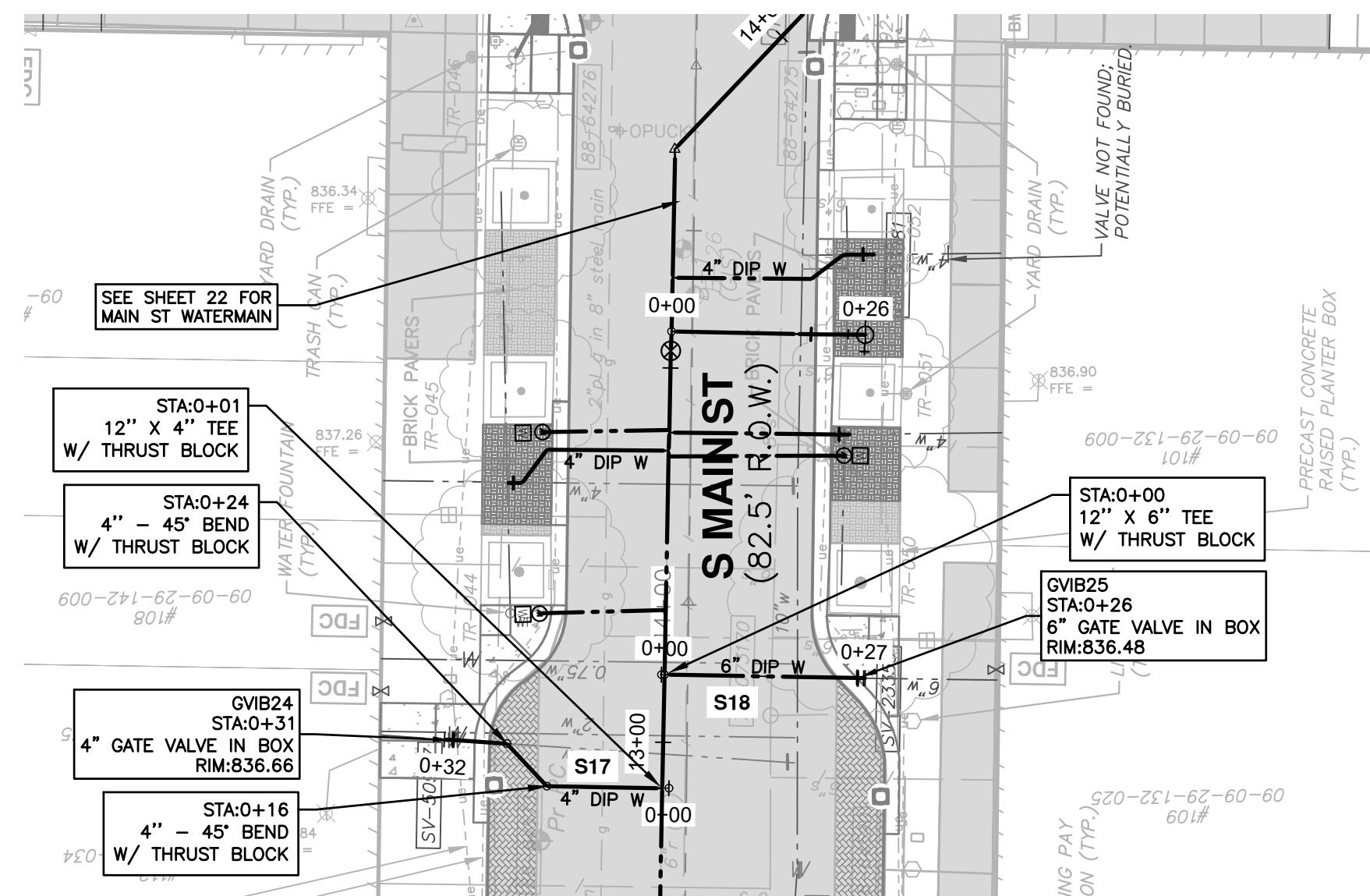
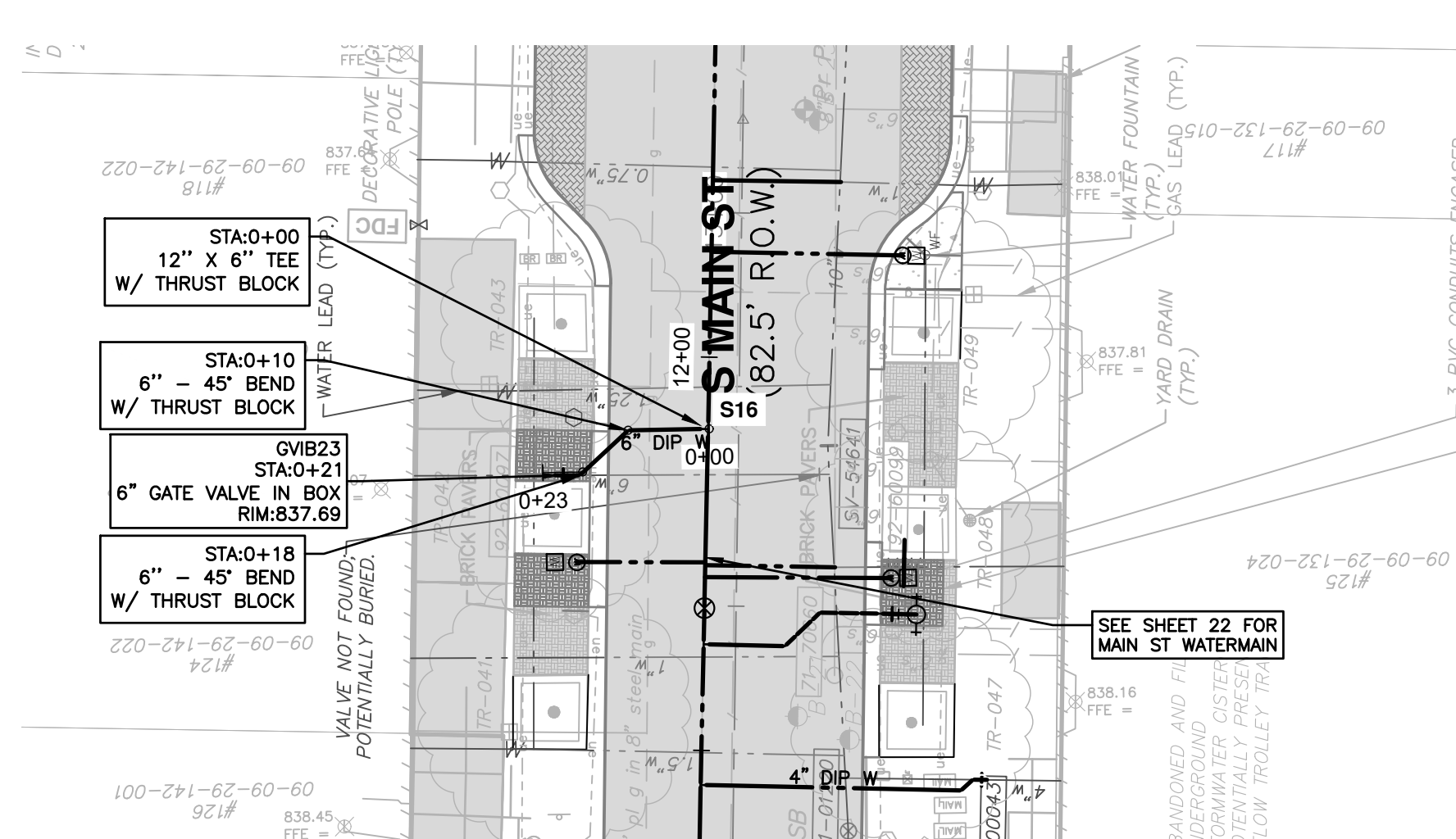
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a3gov.org

ANN ARBOR MICHIGAN CITY

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING NO. 2020-038-36
SHEET NO. 36 OF 80

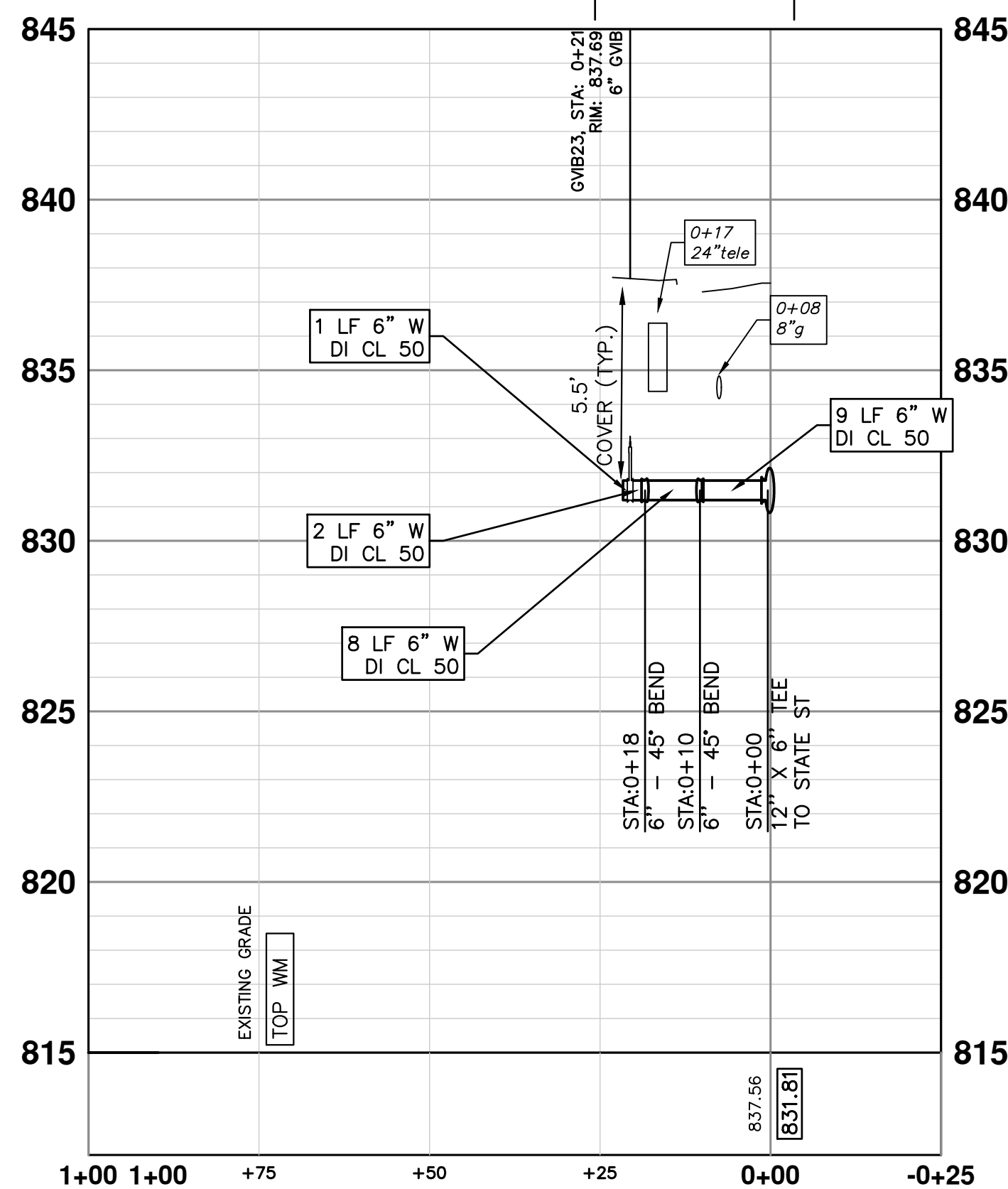
REV.	DESCRIPTION	DATE	DRAWN	CHECKED



NOTES

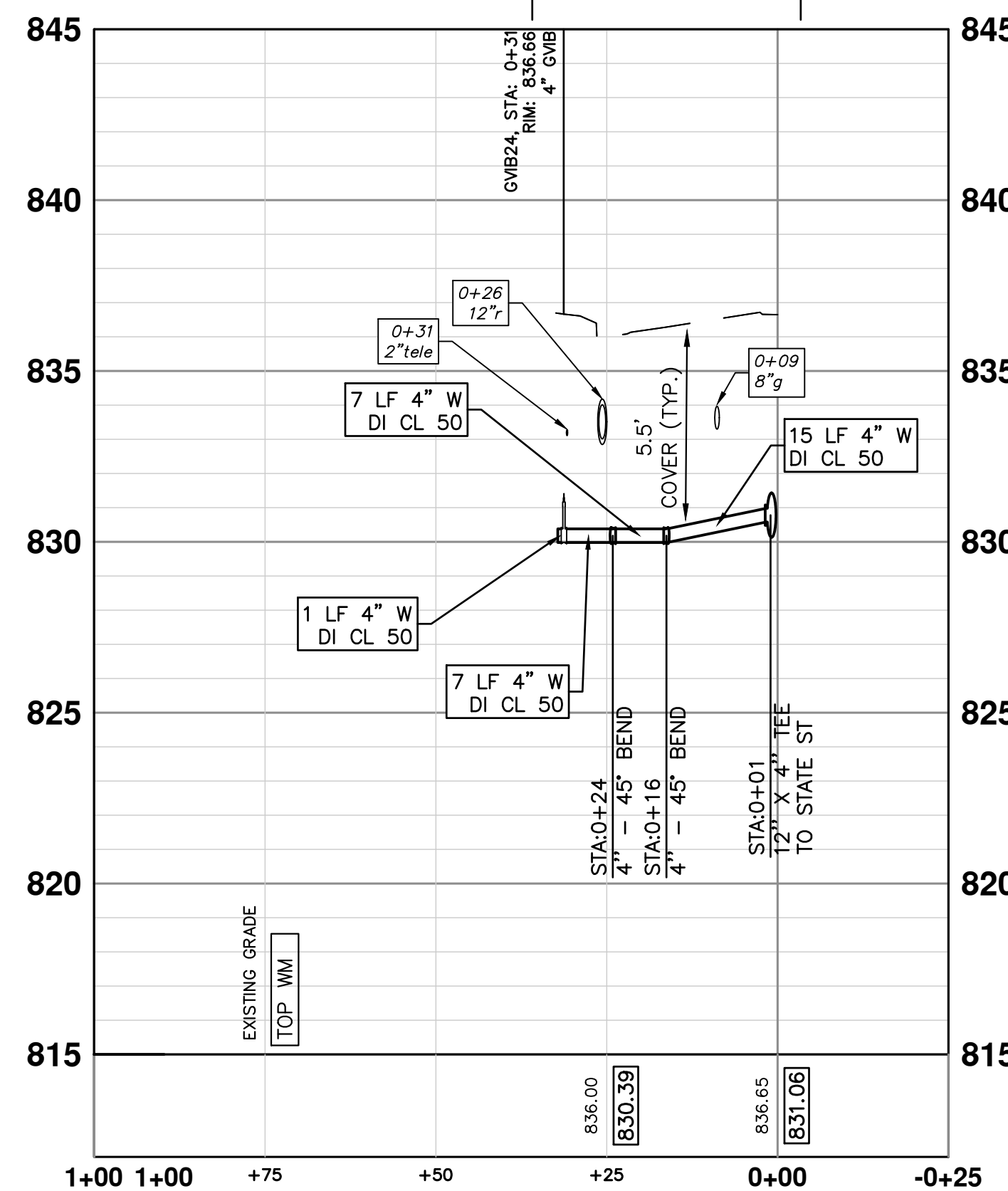
- DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK, THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE OR HAVE HAD LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR LEAD MATERIAL, MUST IMMEDIATELY REPORT THEIR OBSERVATION TO THE ENGINEER AND/OR CITY OF ANN ARBOR PUBLIC WORKS STAFF FOR AUTHENTICATION. IF THE LEAD IS CONFIRMED TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
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6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



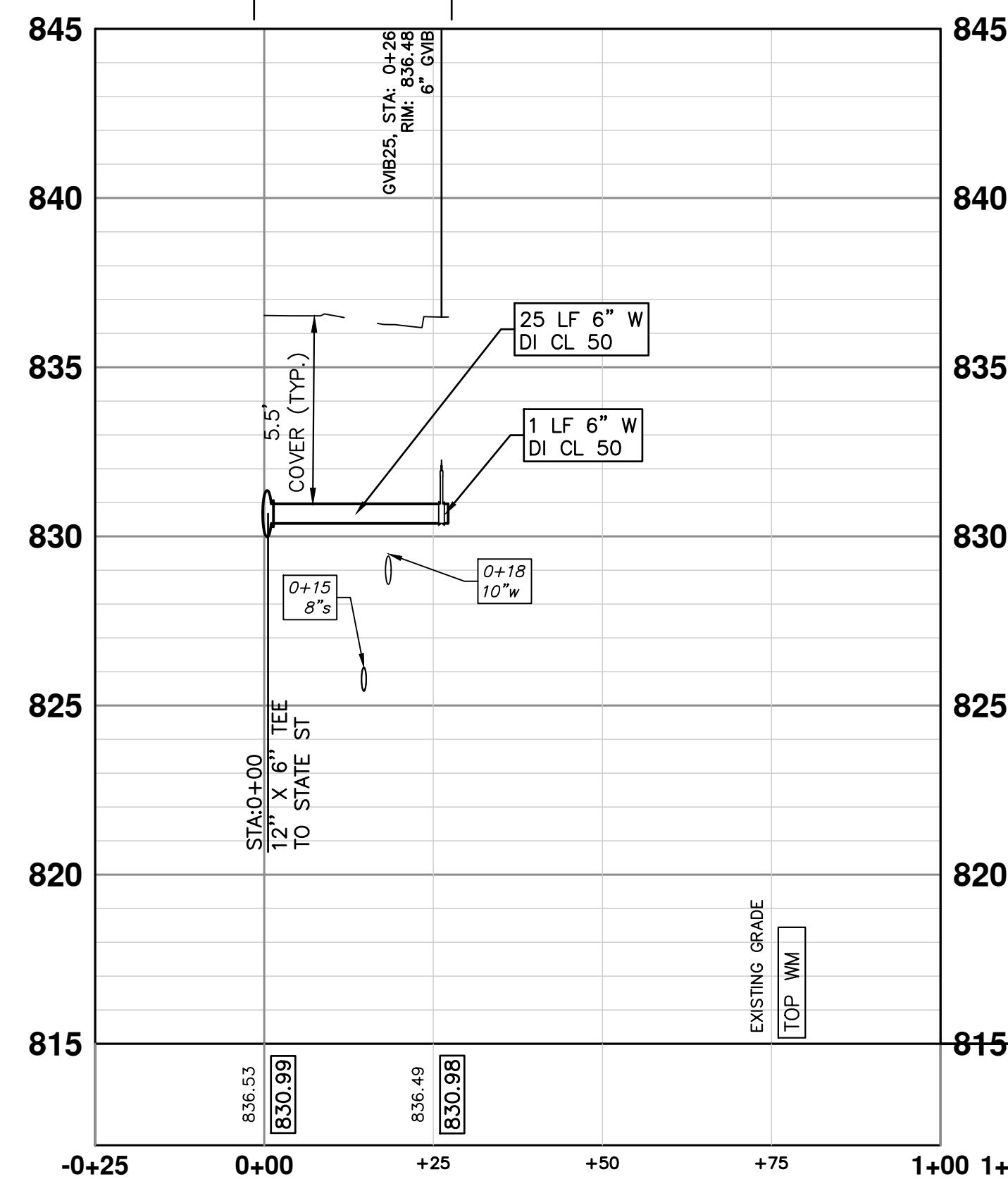
S16: 122 MAIN ST

4" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S17: 110 MAIN ST

6" DI CL 50 W/ POLYETHYLENE WRAP TRENCH DETAIL I



S18: 109 MAIN ST

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON S MAIN ST THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF HURON AND S MAIN ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATERMAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10' DEEP)"(TRENCH DETAIL 1)

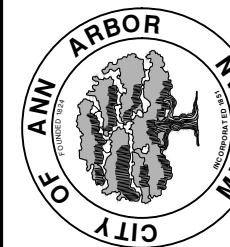
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WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB23	6" GVB	0+21	837.69	7.00
GVB25	6" GVB	0+26	836.48	6.60
GVB24	4" GVB	0+31	836.66	7.19

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
LATERALS 6

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: 1"=30'
PROFILE: 1"=5'
DRAWING NO. 2020-038-37

C:\pw_work\g1092459\CWM-PLTS-WM Lateral2.dwg Dwg Created: 18-Nov-22 - _a2 standard bw.stb - Plot Date: 21-Nov-22



DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48106-1647
www.a3gov.org



**S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT**
LATERALS 7

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCALE PLAN: 1"=30'
PROFILE: 1"=5'
DRAWING No. 2020-038-38
SHEET No.

LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA

NOTES

- DURING THE PROJECT'S CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS A GALVANIZED STEEL OR LEAD WATER SERVICE DURING THE PERFORMANCE OF THE WORK THAT WATER SERVICE MUST BE IMMEDIATELY REPLACED IF IT IS DETERMINED TO HAVE OR HAVE HAD LEAD COMPONENTS WITHIN IT. THE CONTRACTOR UPON DISCOVERING A WATER SERVICE THAT APPEARS TO BE CONSTRUCTED OF A MATERIAL THAT CONTAINS LEAD OR COULD HAVE CONTAINED LEAD MATERIALS, THEN THE CONTRACTOR MUST IMMEDIATELY COORDINATE THE REMOVAL OF THE MATERIAL WITH THE ENGINEER, PROPERTY OWNER, AND PUBLIC WORKS STAFF TO REMOVE FROM SERVICE AND REPLACE THE WATER SERVICE TO THE LIMITS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD."
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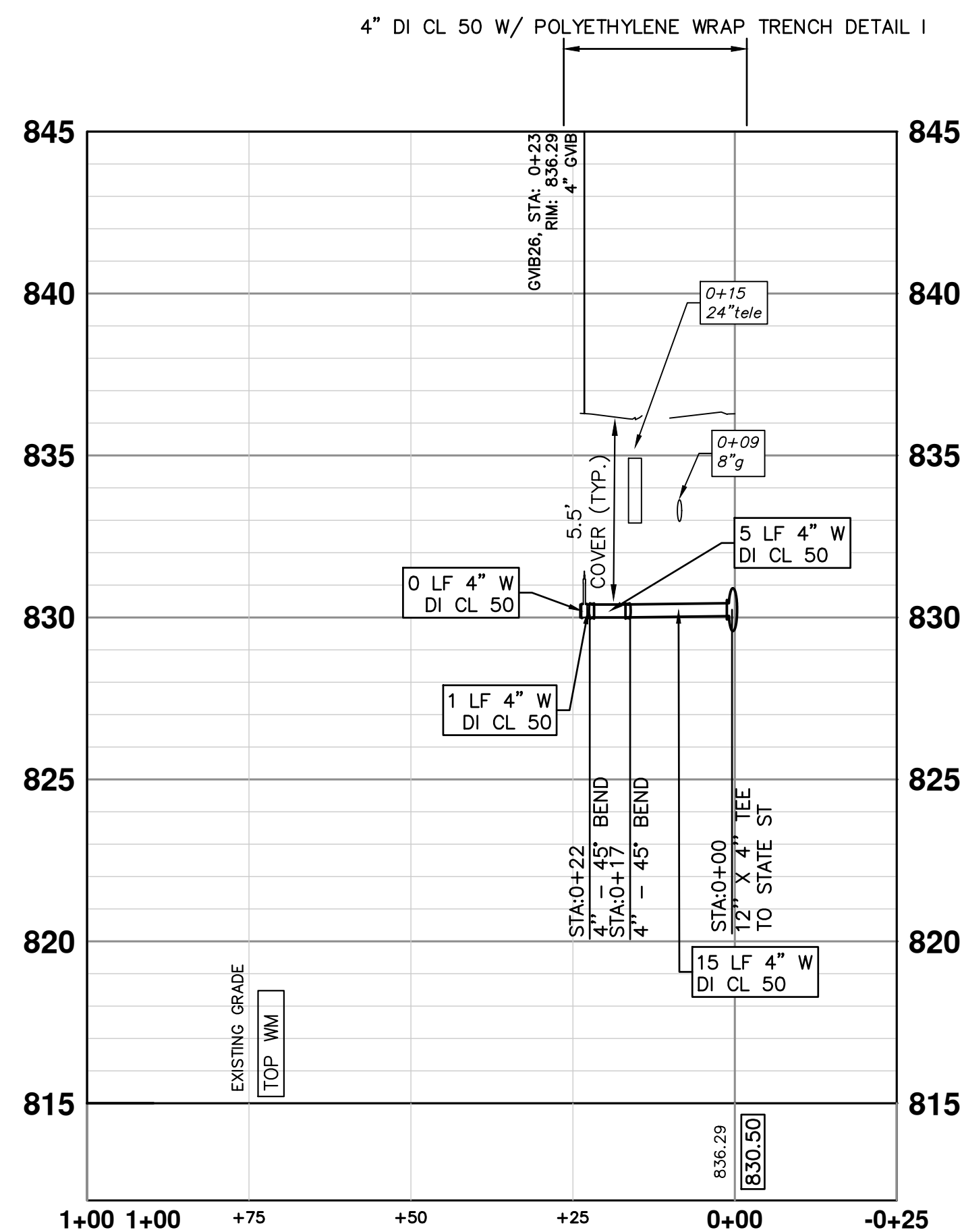
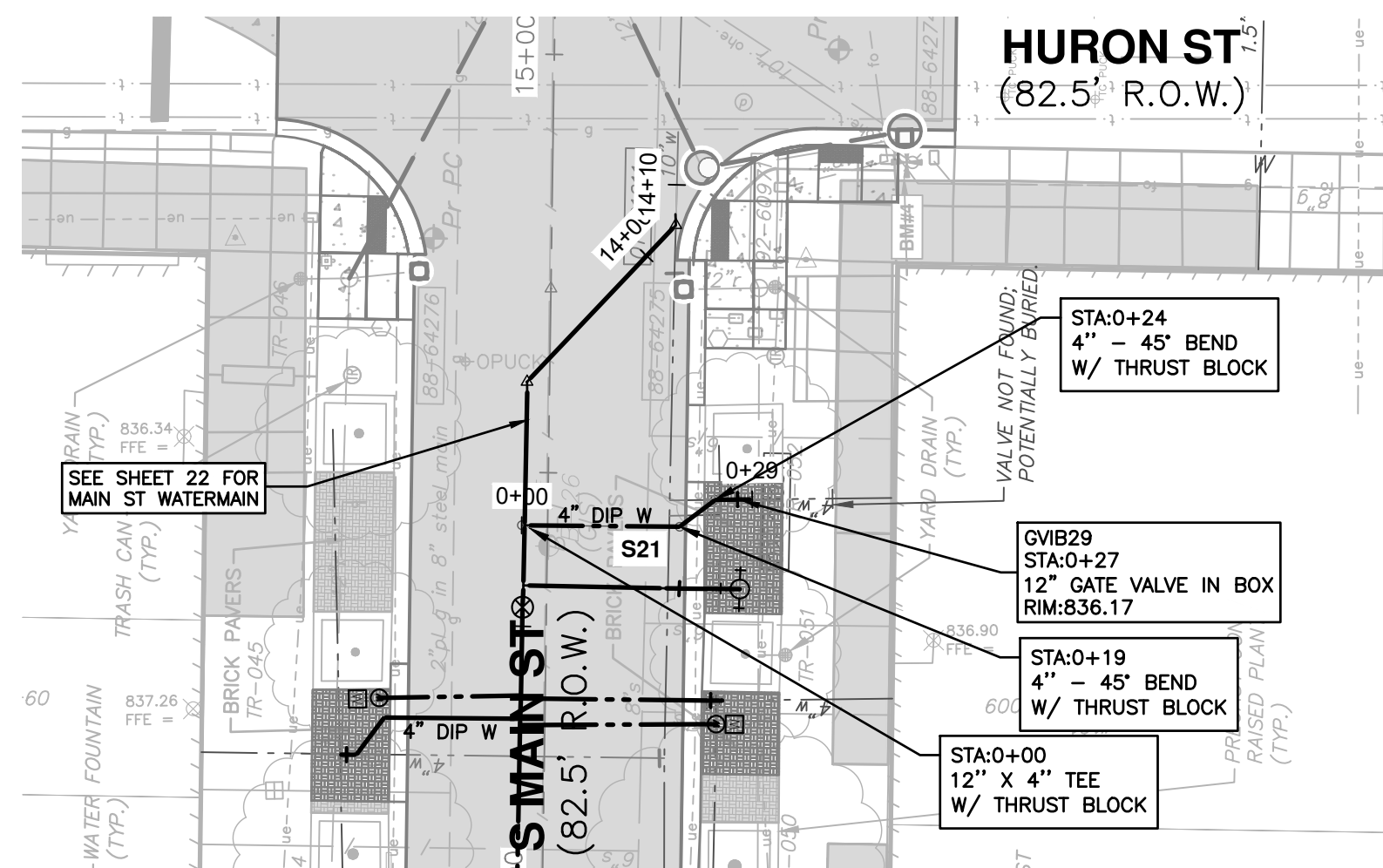
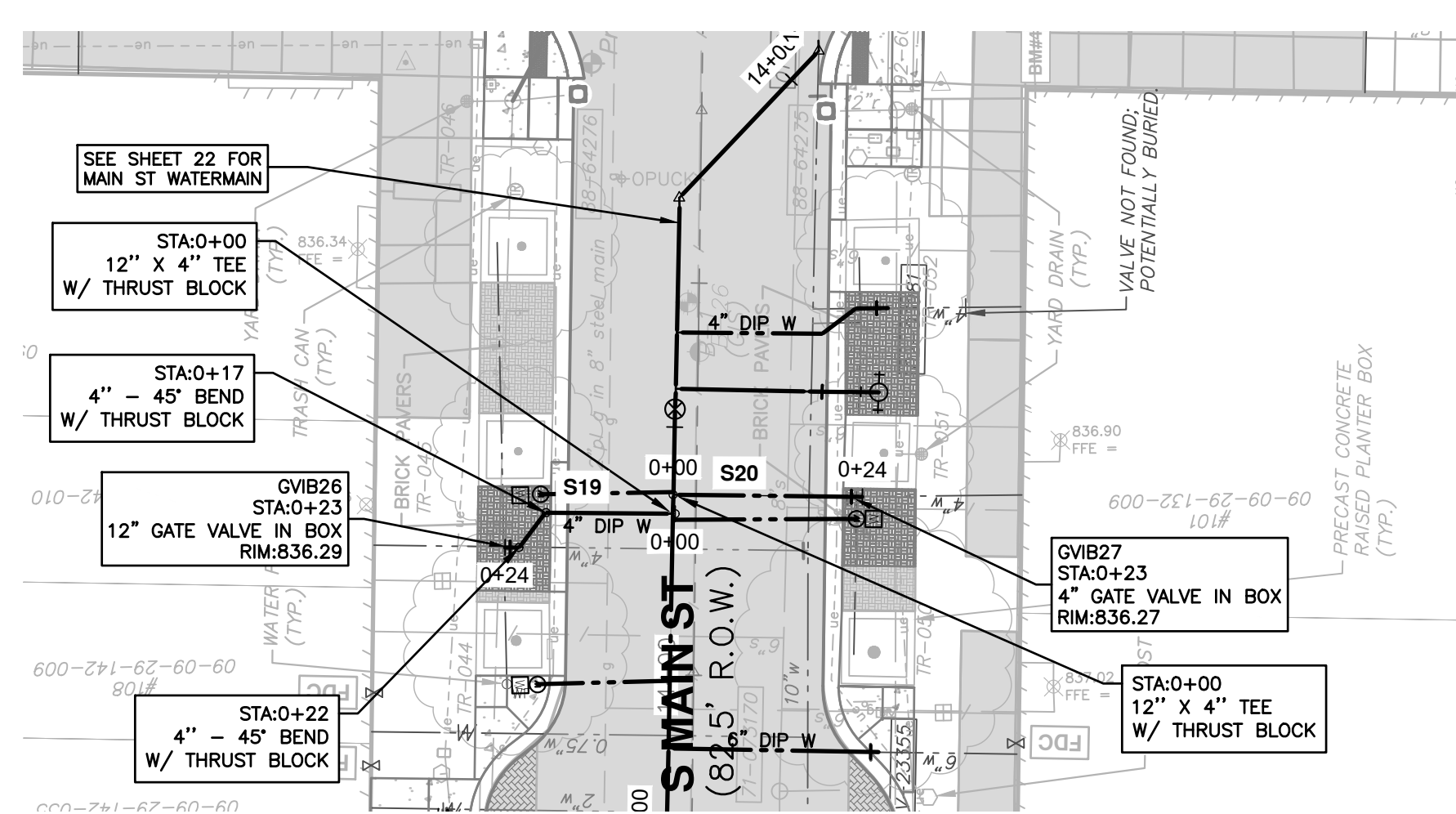
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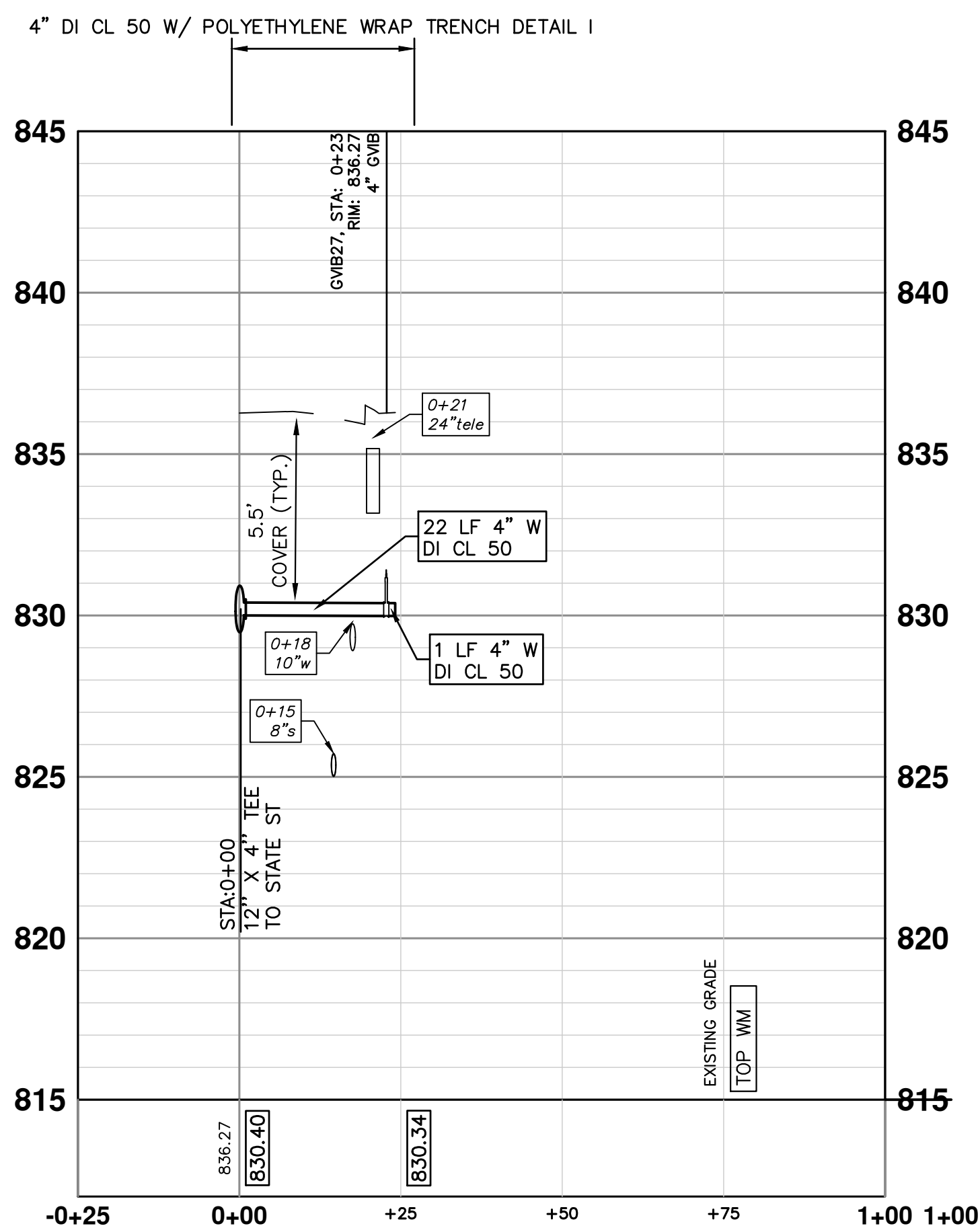
THE DEPTH AND SIZE OF ELECTRICAL, TELEPHONE AND FIBER OPTIC CONDUITS/DUCTS AND THE DEPTH OF GAS MAINS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY, SUPPORT AND PROTECT DURING CONSTRUCTION AND ADJUST WATER MAIN WHERE NECESSARY TO MAINTAIN 12-INCHES VERTICAL CLEARANCE FROM ALL UTILITIES (EXCEPT SANITARY AND STORM SEWER WHERE 18-INCHES IS REQUIRED). THIS WORK IS PAID FOR UNDER GENERAL CONDITIONS, MAX.

WATER MAIN STRUCTURE TABLE

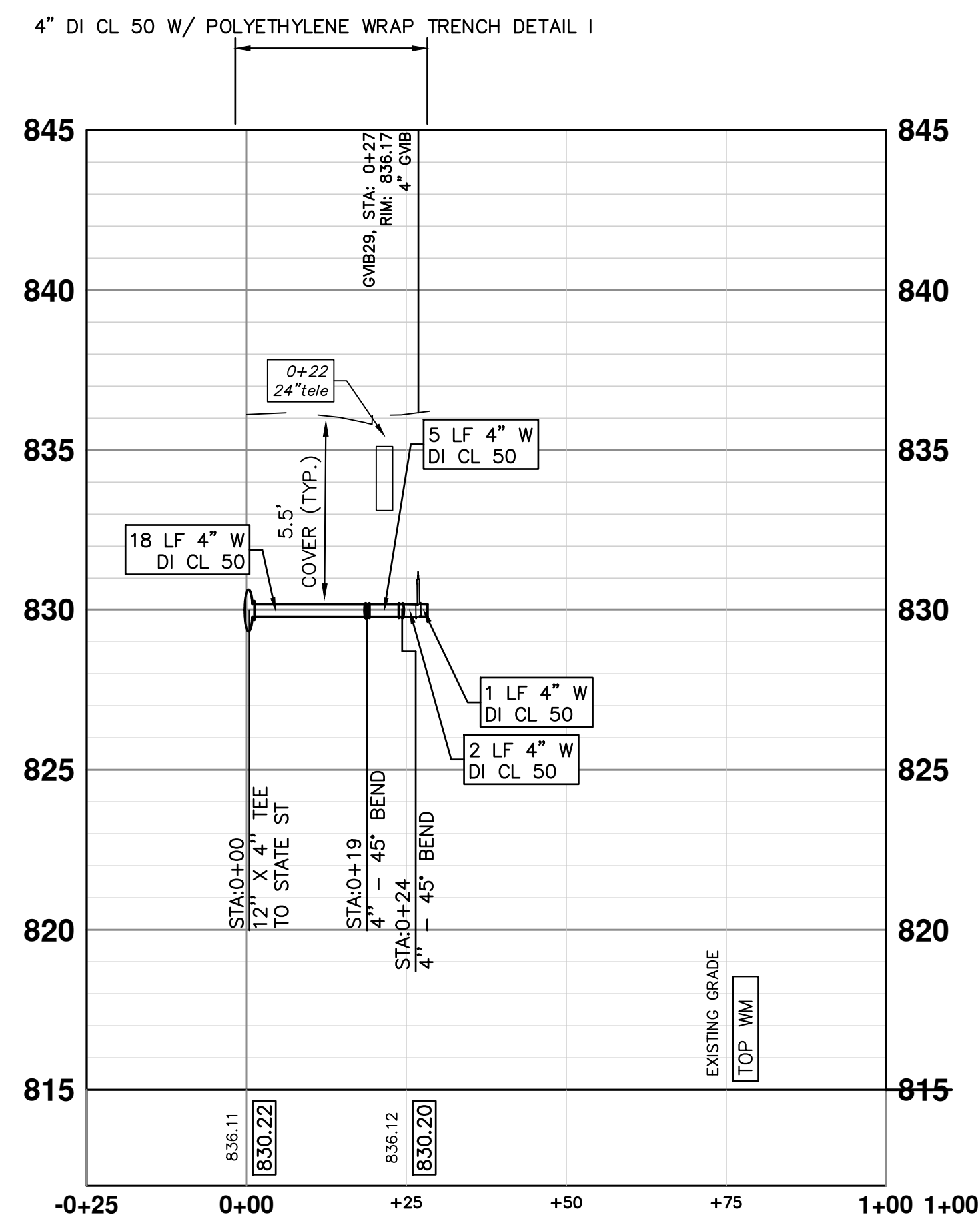
STRUCTURE	TYPE	STATION	RIM	DEPTH
GVB26	4" GVB	0+23	836.29	6.79
GVB27	4" GVB	0+23	836.27	6.79
GVB29	4" GVB	0+27	836.17	6.89



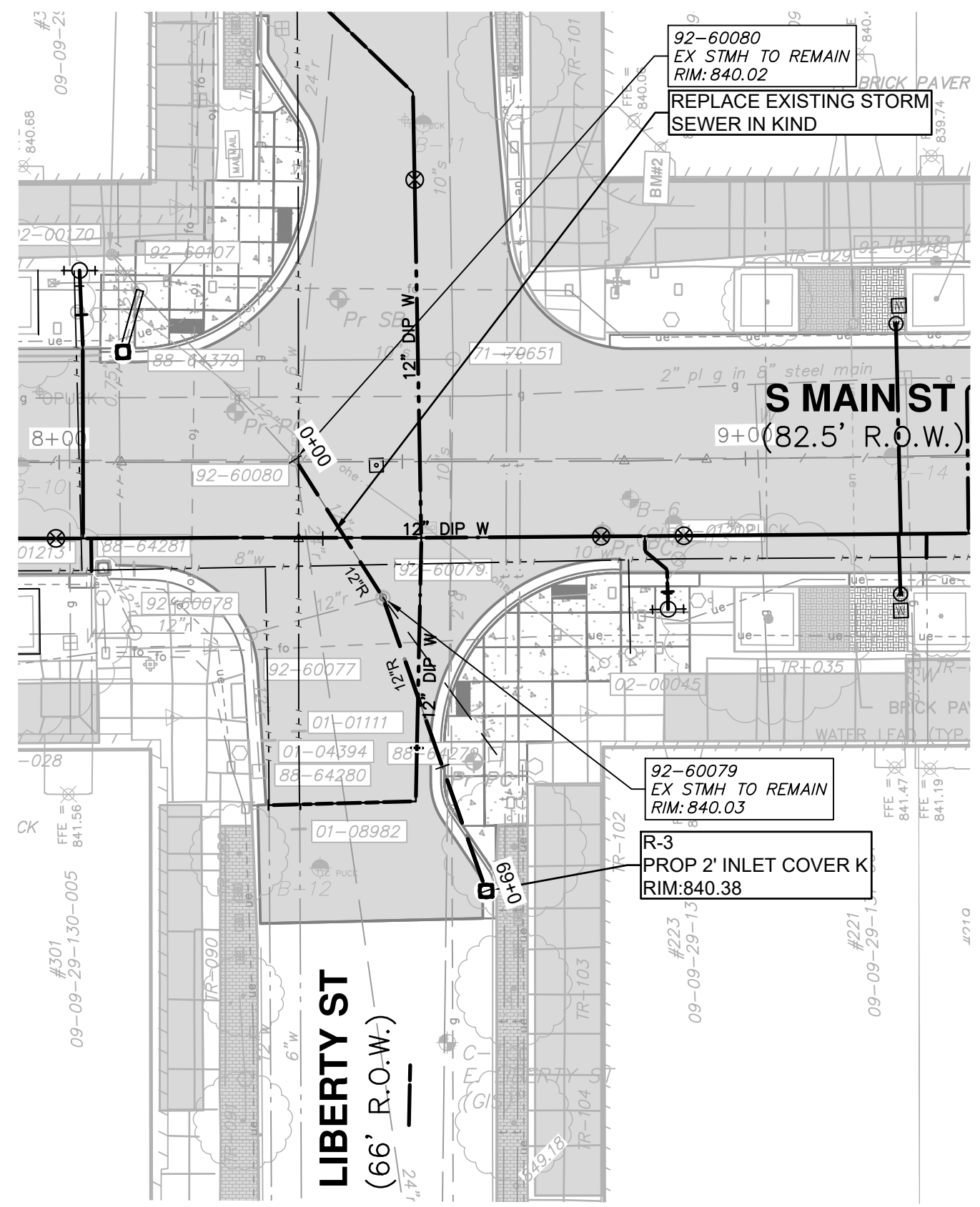
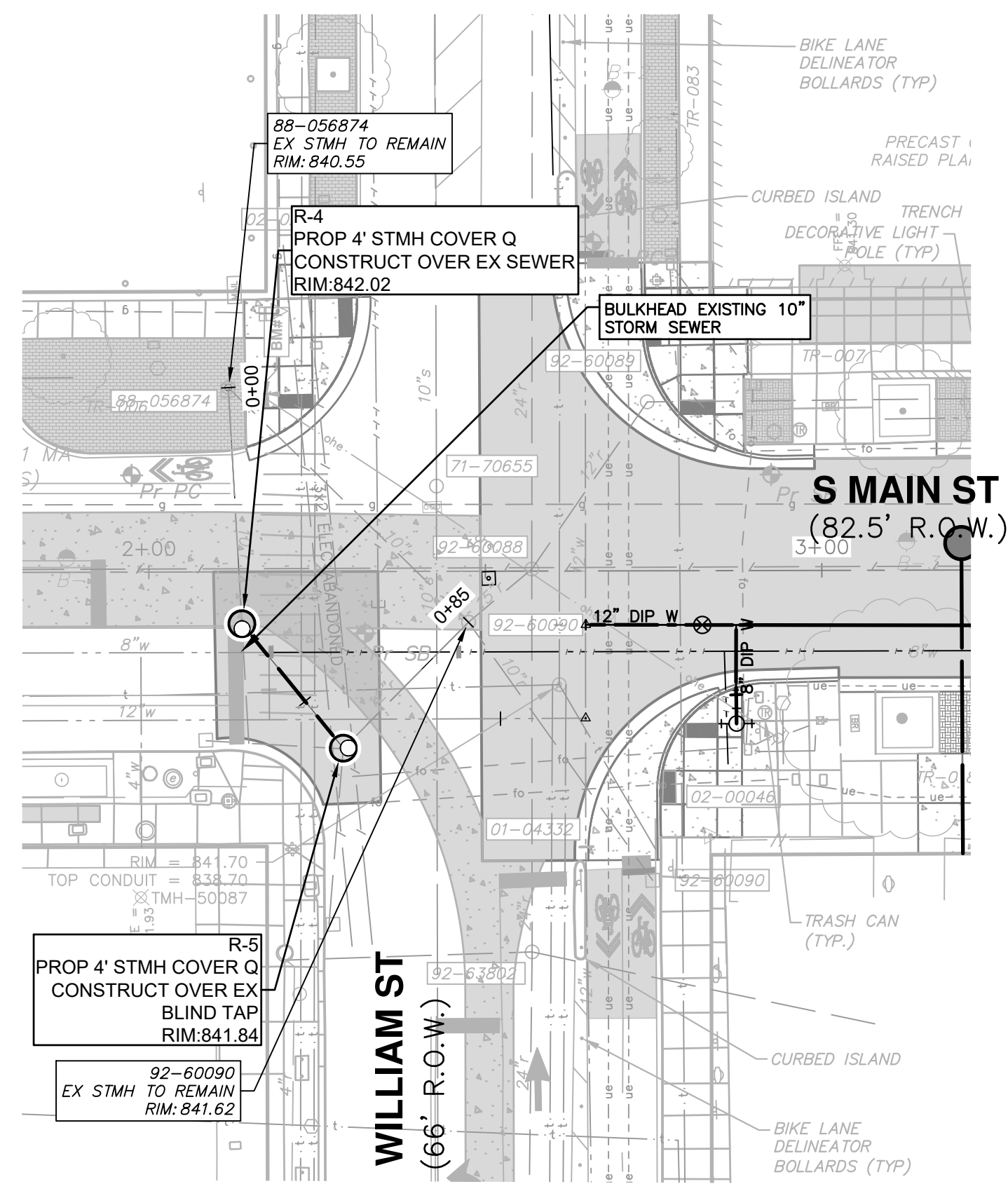
S19: 106 MAIN ST



S20: 101 MAIN ST



S21: 101 (NORTH) MAIN ST



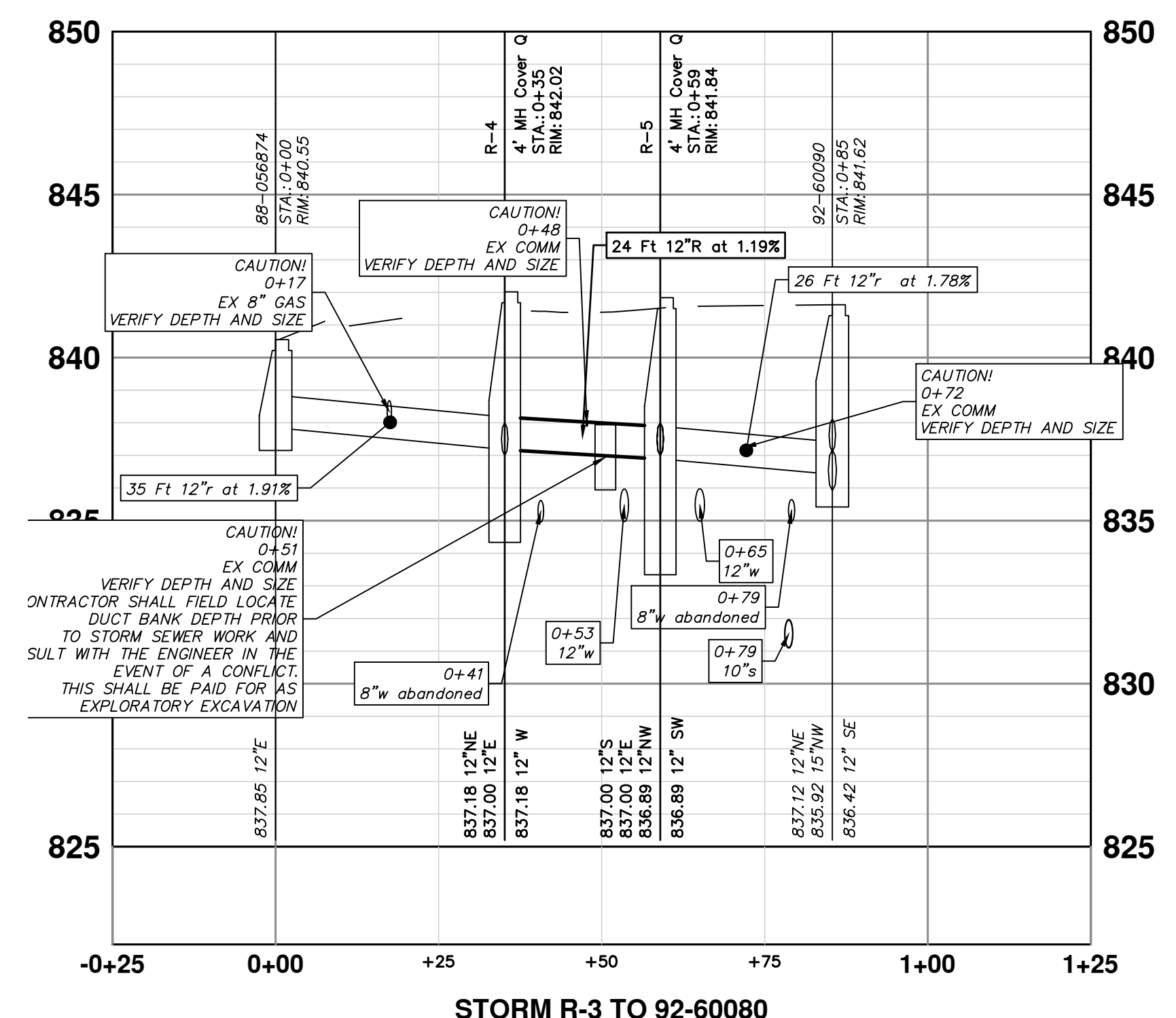
LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA

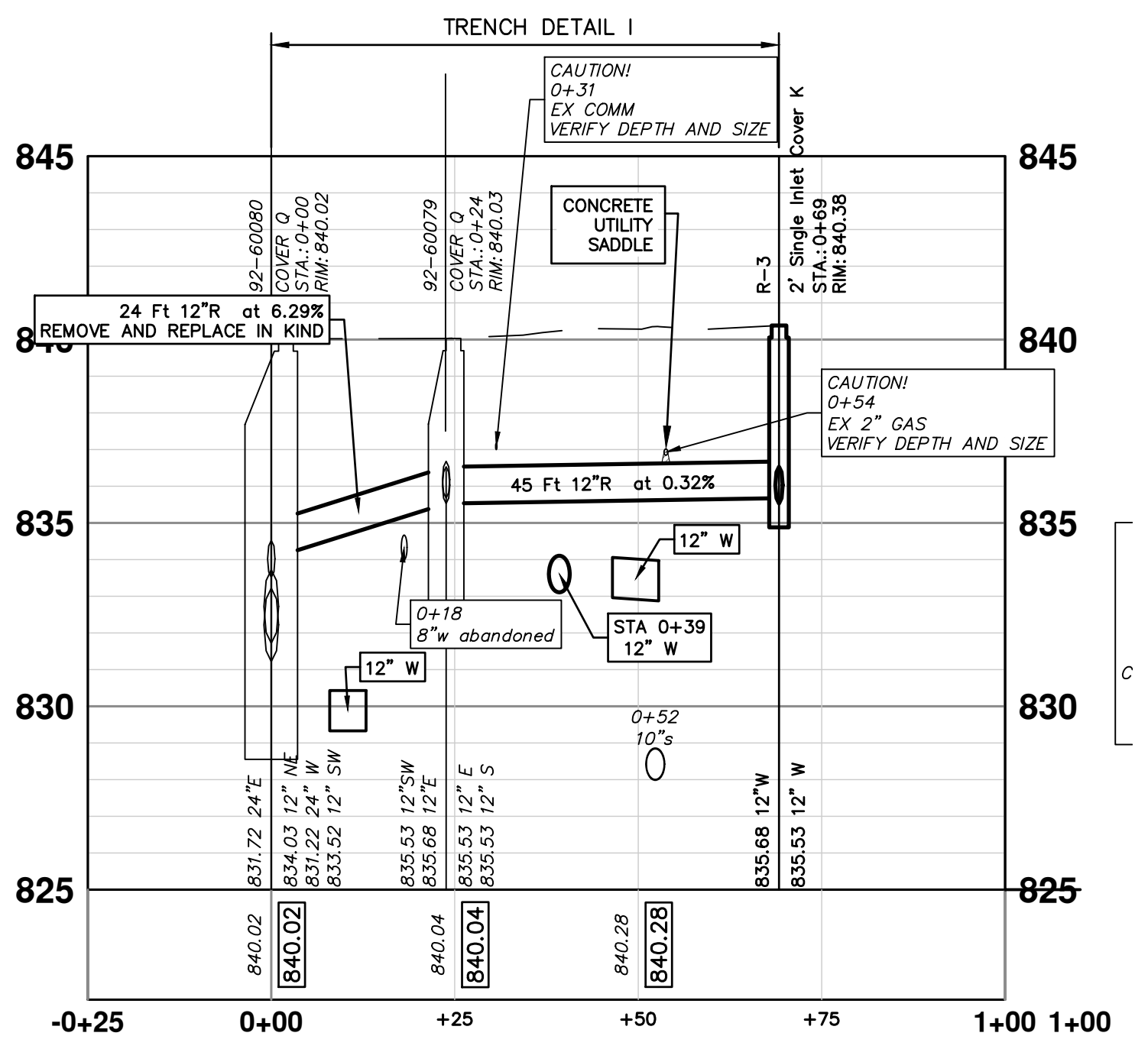
NOTES

1: THE CONTRACTOR SHALL BE AWARE THAT THE FOUNDATION/SUPPORTS FOR THE FORMER TROLLEY TRACKS EXTEND TO A VARIABLE DEPTH OF ABOUT 3'. THE LOCATIONS ARE REPRESENTED ON THE PLANS FROM THE BEST AVAILABLE INFORMATION. IF THESE FOUNDATIONS/SUPPORTS OR OLD TROLLEY TRACKS ARE ENCOUNTERED IN ANY LOCATION DURING THE PERFORMANCE OF THE WORK OF THE PROJECT, THE TRACKS, FOUNDATIONS/SUPPORTS, AND ANCILLARY MATERIALS MUST BE REMOVED FULL DEPTH IF THEY ARE CROSSED TRANSVERSELY AS PART OF THE PROJECT'S WORK. THIS WORK WILL BE PAID FOR AS "PAVT REM, SPECIAL."

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STORM R-3 TO 92-60080



STORM R-3 TO 92-60080

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED STORM PLAN AND PROFILE - WILLIAM ST & LIBERTY ST

SCALE PLAN: 1"=30'
PROFILE: 1"=5'

DRAWING No. 2020-038-39

SHEET No. 39 OF 80

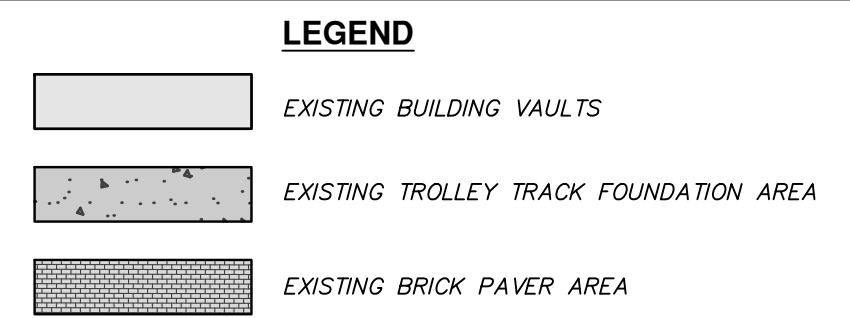
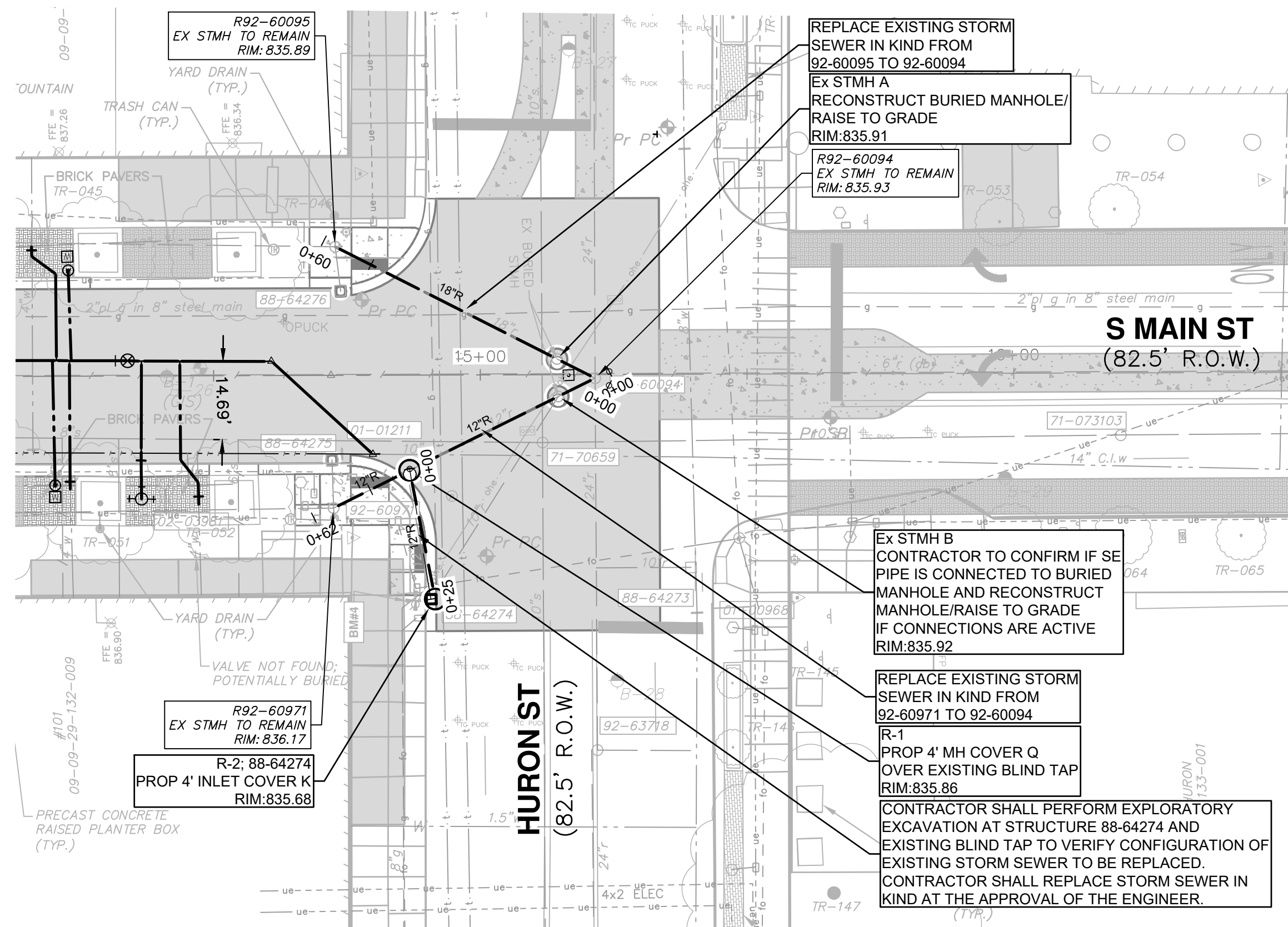
811
Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

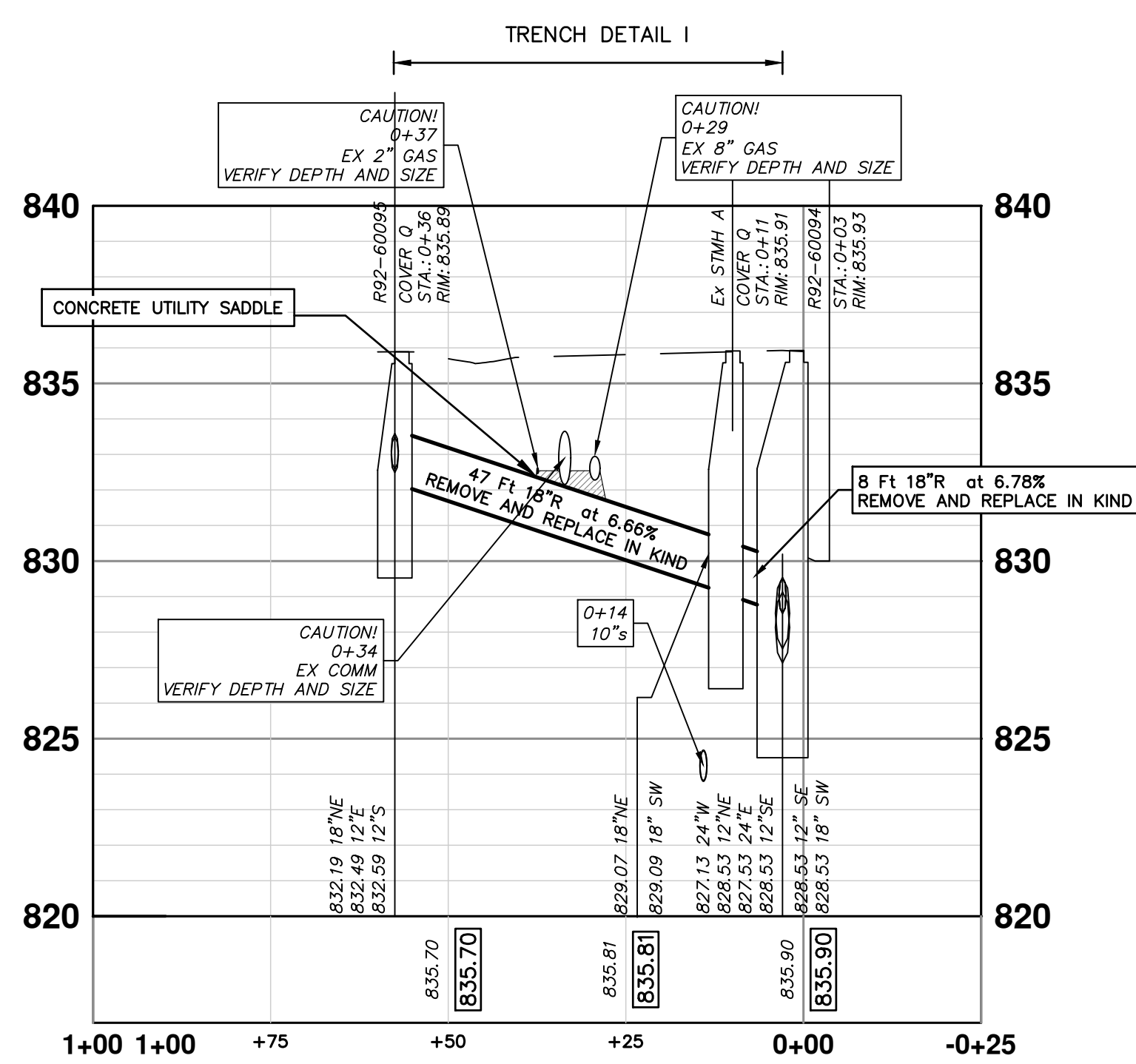
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
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CITY OF ANN ARBOR
MICHIGAN

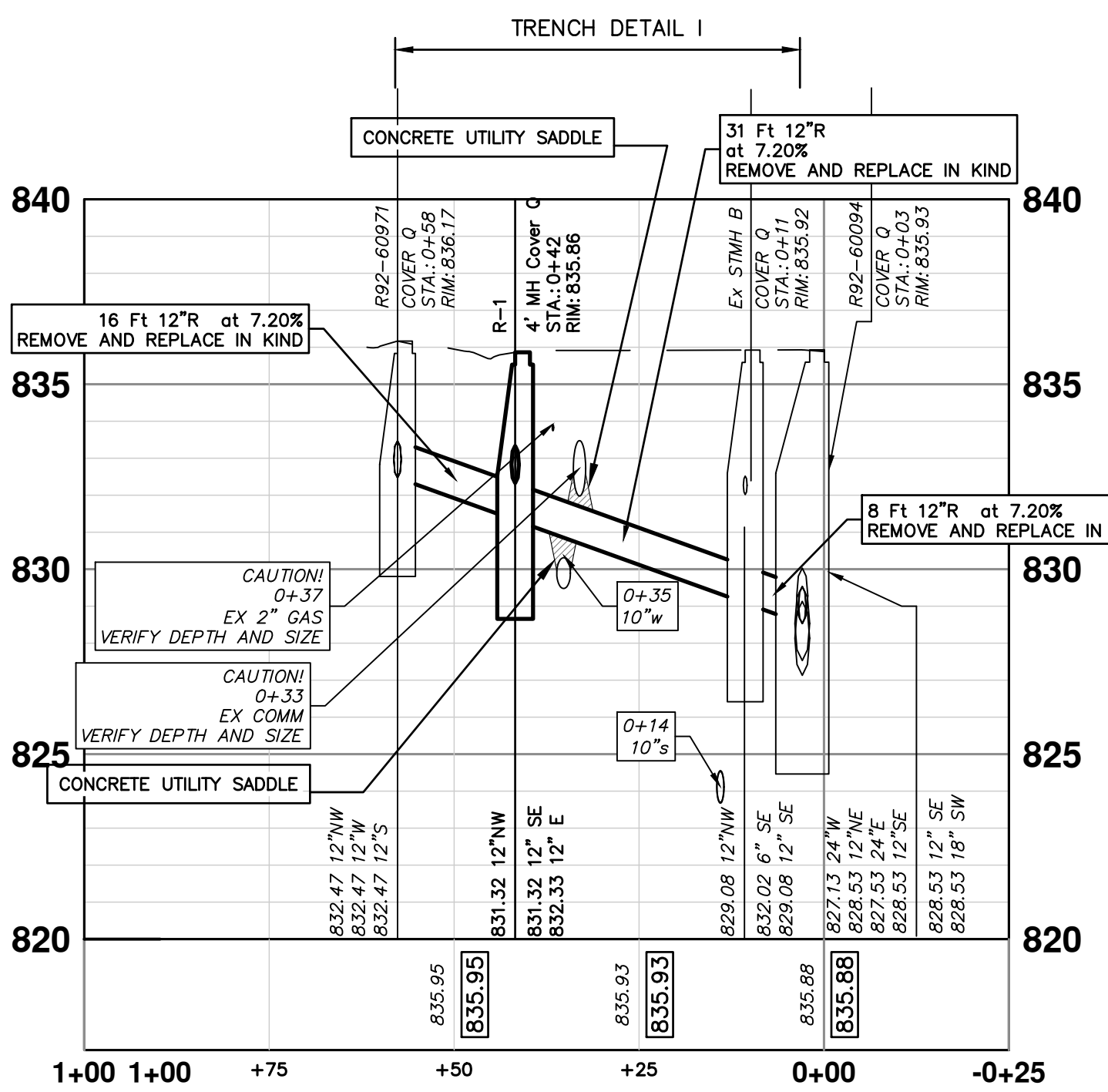
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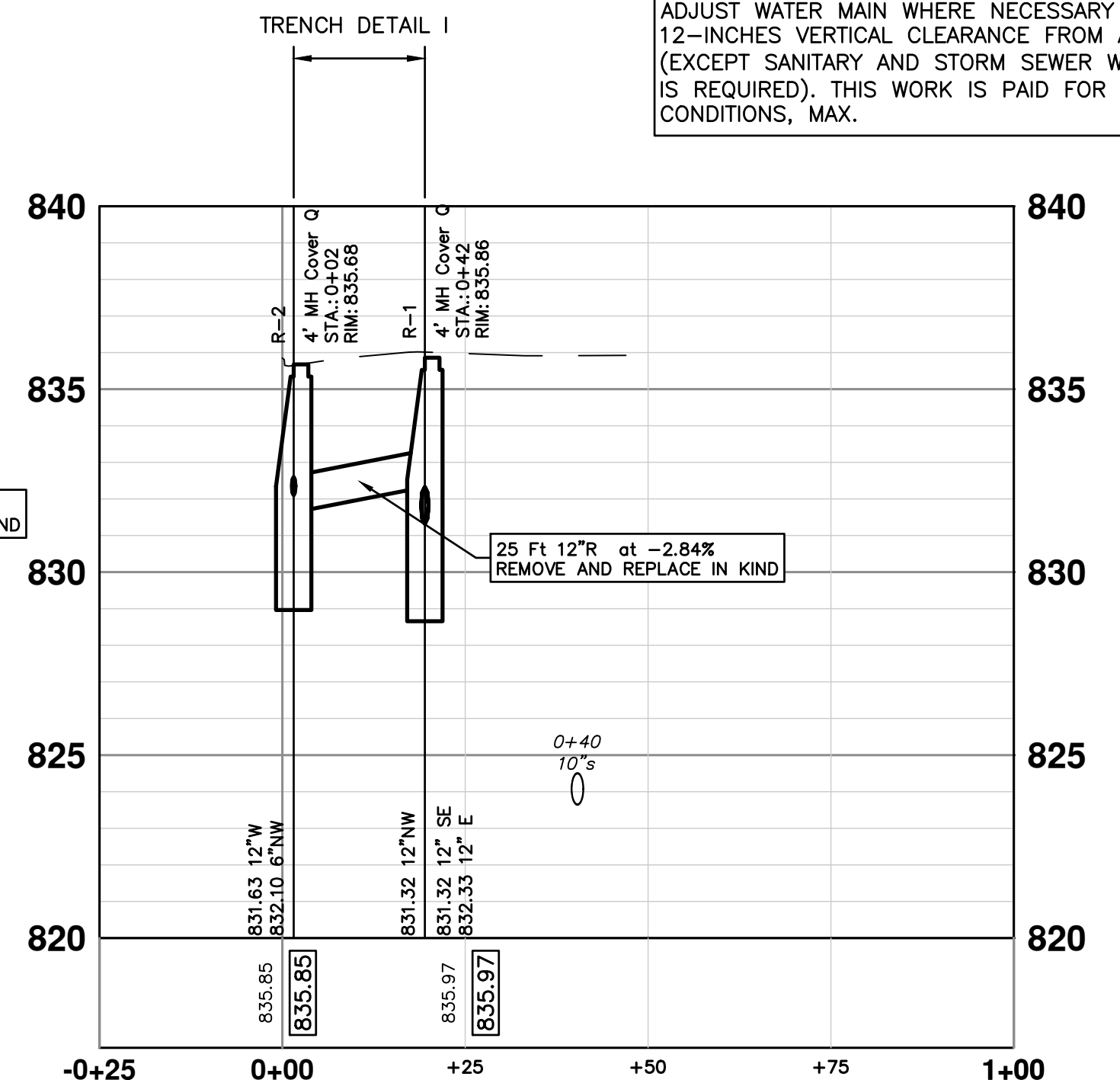
NOTES
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STORM R92-60095 TO R92-60094



STORM R92-60971 TO R92-60094



STORM R-1 TO R-2

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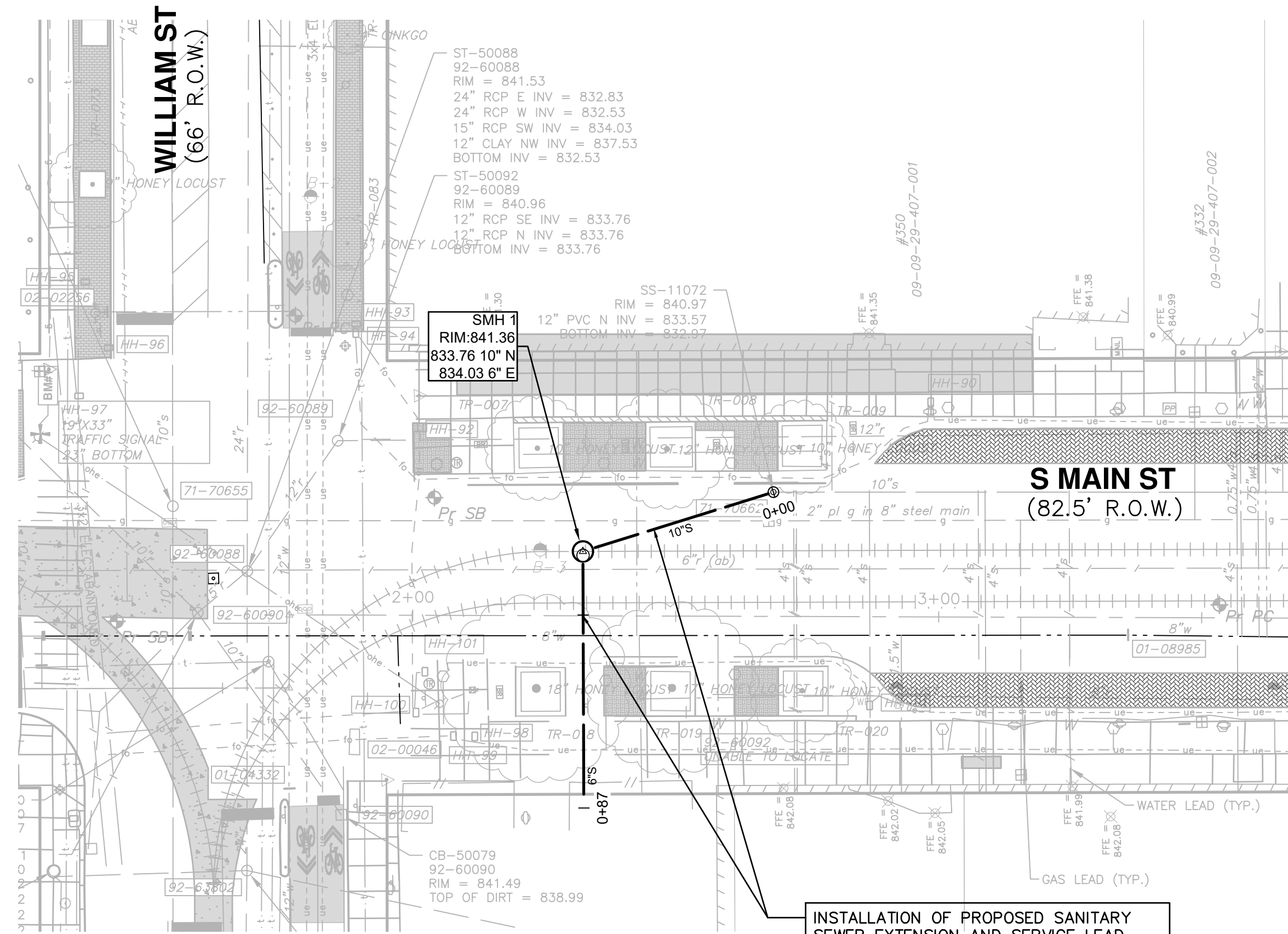
811 Know what's below. Call Before you dig.

REV.	DATE	DRAWN	CHECKED

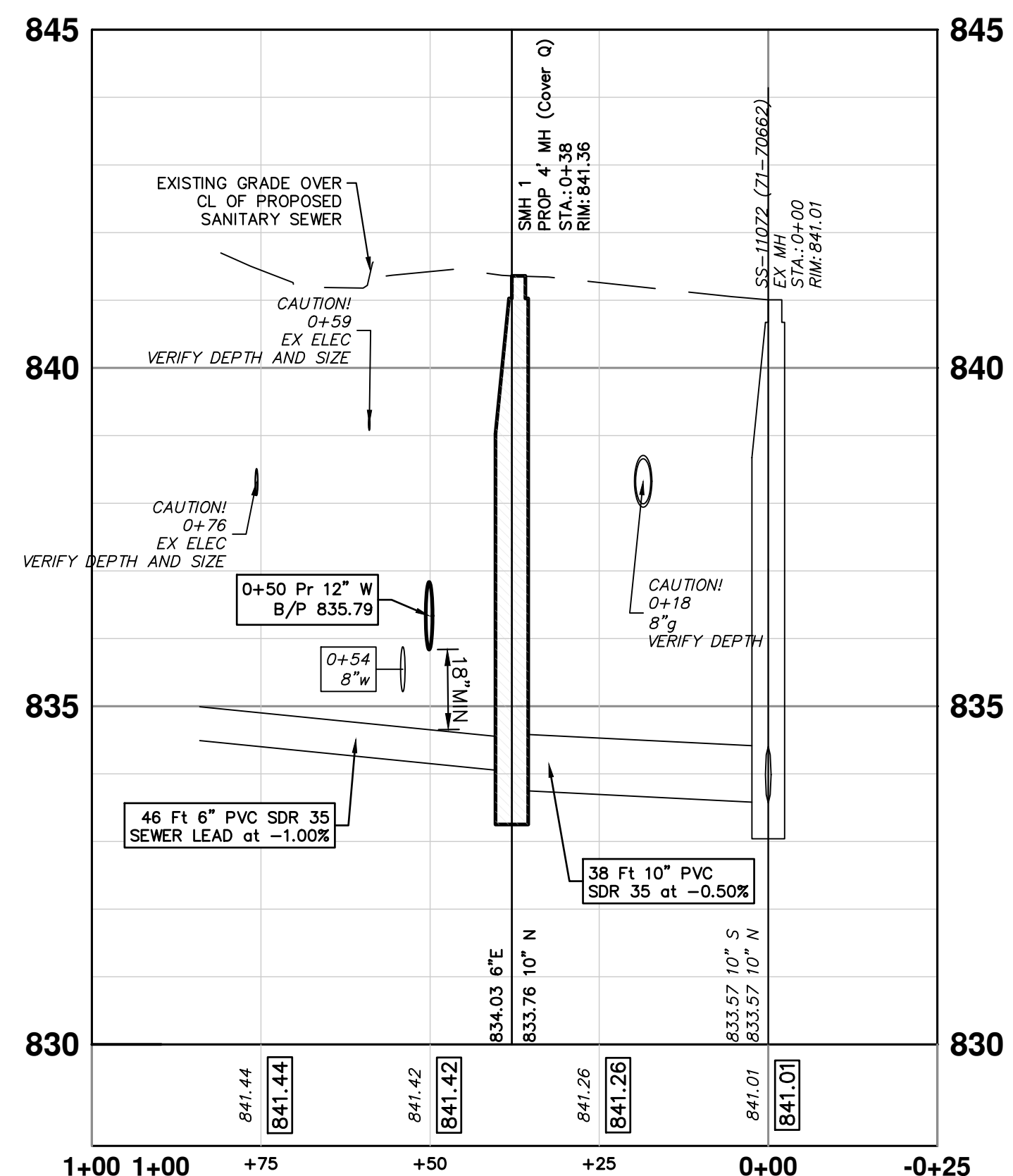
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
PROPOSED STORM PLAN AND PROFILE - S MAIN STREET

CITY OF ANN ARBOR PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a2gov.org

SCALE PLAN: 1"=20'
PROFILE: 1"=5'
DRAWING NO. 2020-038-40
SHEET NO. 40 OF 80



INSTALLATION OF PROPOSED SANITARY SEWER EXTENSION AND SERVICE LEAD WILL LIKELY REQUIRE THE USE OF TRENCH BOXES IN ORDER TO PROTECT ADJACENT CONDUITS AND PLANTERS. THIS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE OF THE SANITARY SEWER PAY ITEMS



THE DEPTH AND SIZE OF ELECTRICAL, TELEPHONE AND FIBER OPTIC CONDUITS/DUCTS AND THE DEPTH OF GAS MAINS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY, SUPPORT AND PROTECT DURING CONSTRUCTION AND ADJUST WATER MAIN WHERE NECESSARY TO MAINTAIN 12-INCHES VERTICAL CLEARANCE FROM ALL UTILITIES (EXCEPT SANITARY AND STORM SEWER WHERE 18-INCHES IS REQUIRED). THIS WORK IS PAID FOR UNDER GENERAL CONDITIONS, MAX.

PROPOSED SANITARY SEWER EXTENSION AND LEAD



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED SANITARY SEWER PLAN AND PROFILE

SCALE PLAN: 1" = 20'
PROFILE: 1" = 5'

DRAWING No. 2020-038-41

811
Know what's below.
Call Before you dig.

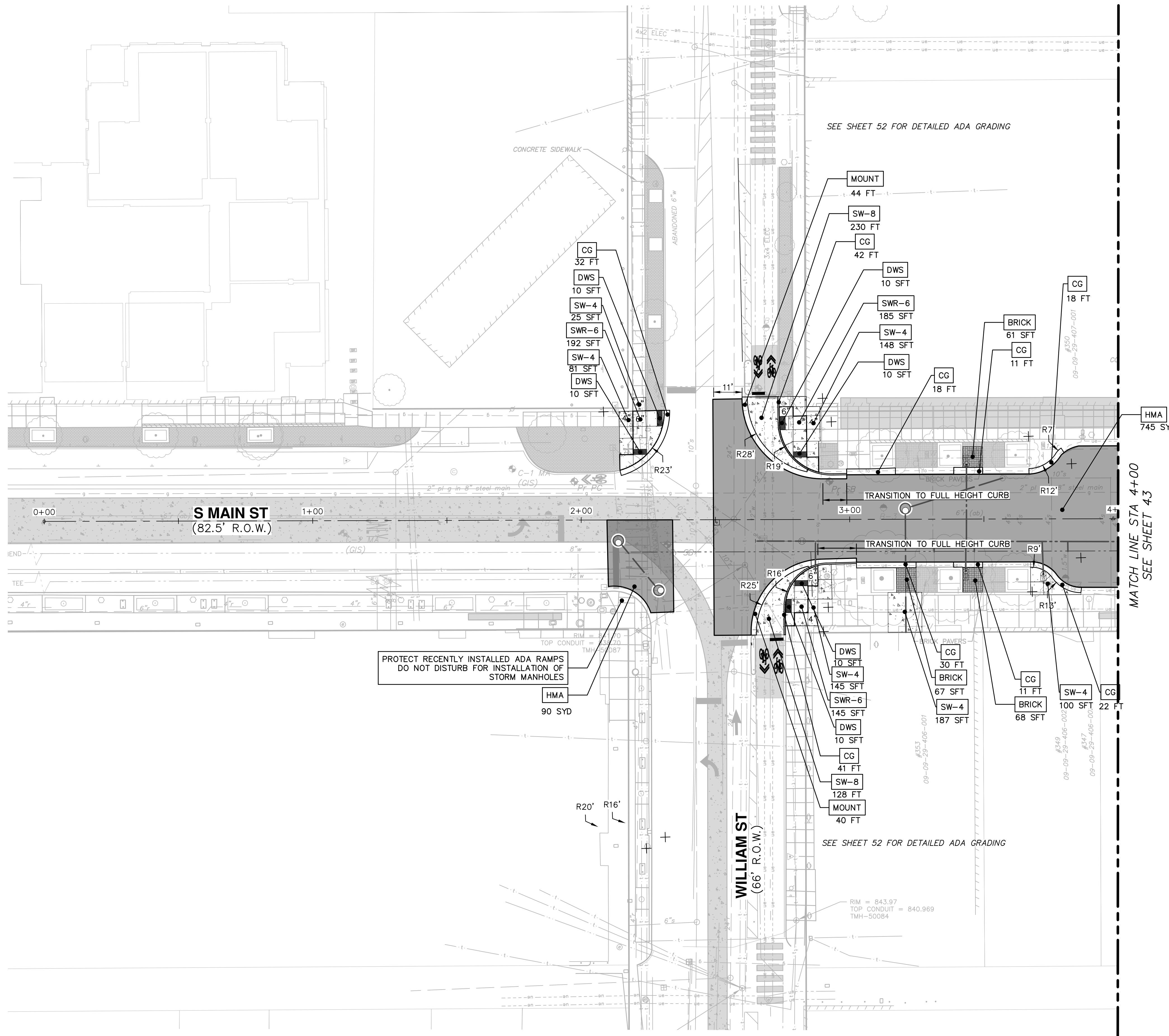
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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CITY OF ANN ARBOR MICHIGAN

SHEET No. 41 OF 80

C:\pw_work\g1092459\CRD-PLTS-S Main Construction.dwg Dwg Created: 21-Nov-22 - _a2 standard bw.stb - Plot Date: 21-Nov-22



LEGEND

[Pattern]	EXISTING BUILDING VAULTS
[Pattern]	EXISTING TROLLEY TRACK FOUNDATION AREA
[Pattern]	EXISTING BRICK PAVER AREA
[Pattern]	PROPOSED PAVEMENT LIMITS

NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

CONSTRUCTION KEY

KEY	DESCRIPTION
[HMA]	SURFACE AREA FOR HMA
[CG]	CURB AND GUTTER, CONC, MATCH EXISTING, SPECIAL
[MOUNT]	MOUNTABLE CURB AND GUTTER
[SW-4]	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
[SWR-6]	SIDEWALK RAMP, CONCRETE, 6 INCH, SPECIAL
[SW-6]	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
[SW-8]	SIDEWALK, CONCRETE, 8 INCH, SPECIAL
[DWS]	DETECTABLE WARNING SURFACE, MODIFIED
[BRICK]	BRICK PAVERS, INSTALL SALVAGED (BASKET WEAVE)



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED ROAD CONSTRUCTION PLAN STA 0+00 TO STA 4+00

SCALE PLAN: 1"=20'

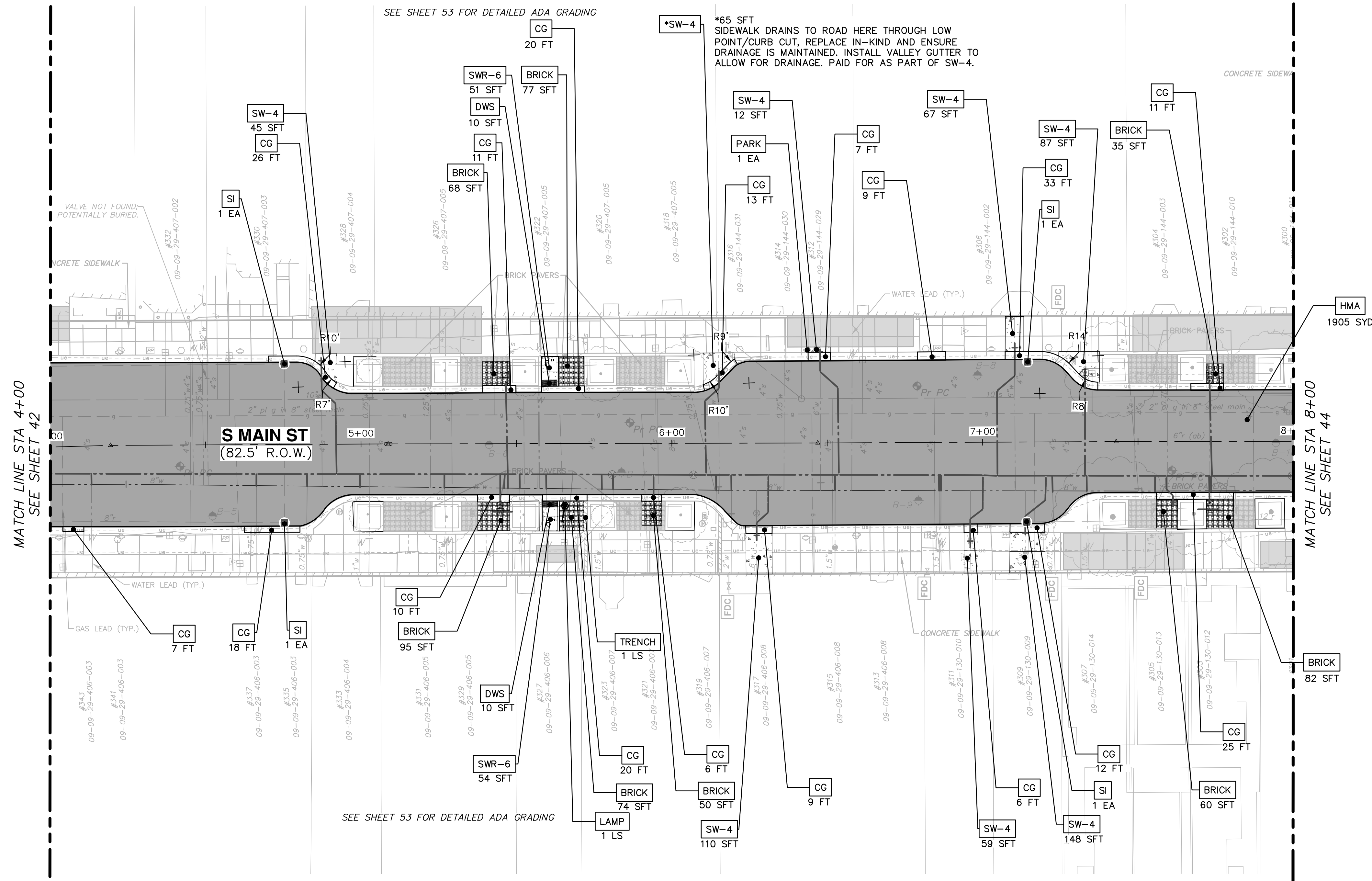
DRAWING No. 2020-038-42

SHEET No. 42 OF 80

811
Know what's below. Call before you dig.

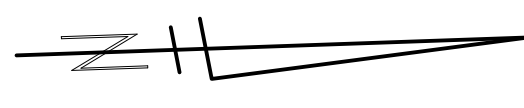
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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301 EAST HURON STREET
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ANN ARBOR MI 48106-4410
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LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- PROPOSED PAVEMENT LIMITS



NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
CG	CURB AND GUTTER, CONC, MATCH EXISTING, SPECIAL
MOUNT	MOUNTABLE CURB AND GUTTER
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SW-6	SIDEWALK RAMP, CONCRETE, 6 INCH, SPECIAL
DWS	DETECTABLE WARNING SURFACE, MODIFIED
BRICK	BRICK PAVERS, INSTALL SALVAGED (BASKET WEAVE)
SI	SINGLE INLET WITH 2-FOOT SUMP
LAMP	LIGHT FDN, POST, ELECTRICAL, REM, SALV, REINSTALL (SEE DETAIL ON SHEET 56)
TRENCH	TRENCH DRAIN (SEE DETAIL ON SHEET 53)
PARK	PARKING METER, INSTALL

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED ROAD CONSTRUCTION PLAN STA 4+00 TO STA 8+00

SCALE PLAN: 1"=20'

DRAWING No. 2020-038-43

SHEET No. 43 OF 80

811
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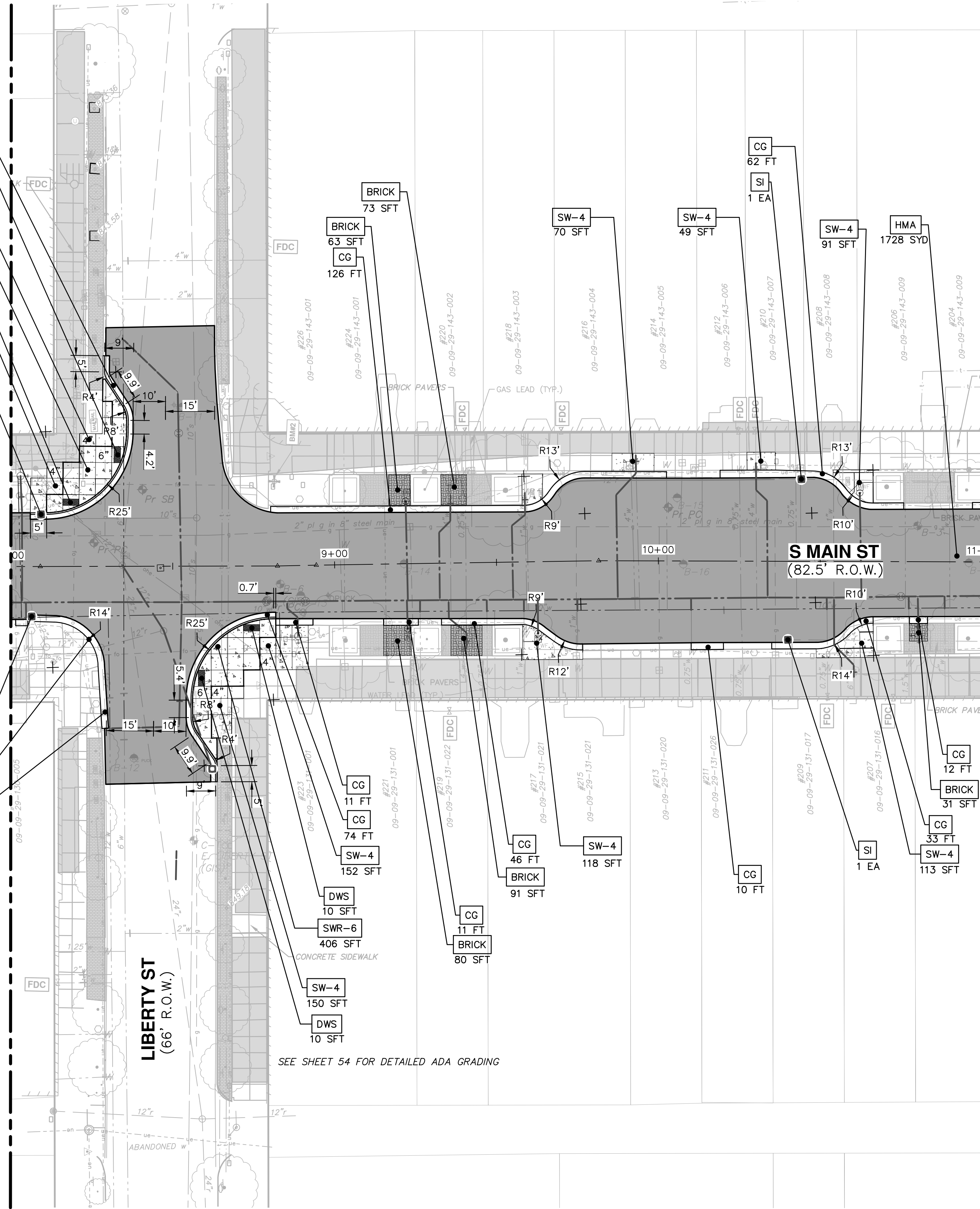
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

SEE SHEET 54 FOR DETAILED ADA GRADING
 NOTE: THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO LOCATE AND PROTECT AND LEAVE UNDERGROUND VAULTS UNDISTURBED AT THIS QUADRANT

MATCH LINE STA 8+00
 SEE SHEET 43

- CG 76 FT
- DWS 10 SFT
- SW-4 72 SFT
- SWR-6 350 SFT
- DWS 10 SFT
- SW-4 100 SFT
- SI 1 EA

- SI 1 EA
- CG 57 FT
- SI 1 EA



LIBERTY ST
 (66' R.O.W.)

SEE SHEET 54 FOR DETAILED ADA GRADING

S MAIN ST
 (82.5' R.O.W.)

MATCH LINE STA 11+00
 SEE SHEET 45

LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- PROPOSED PAVEMENT LIMITS



NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

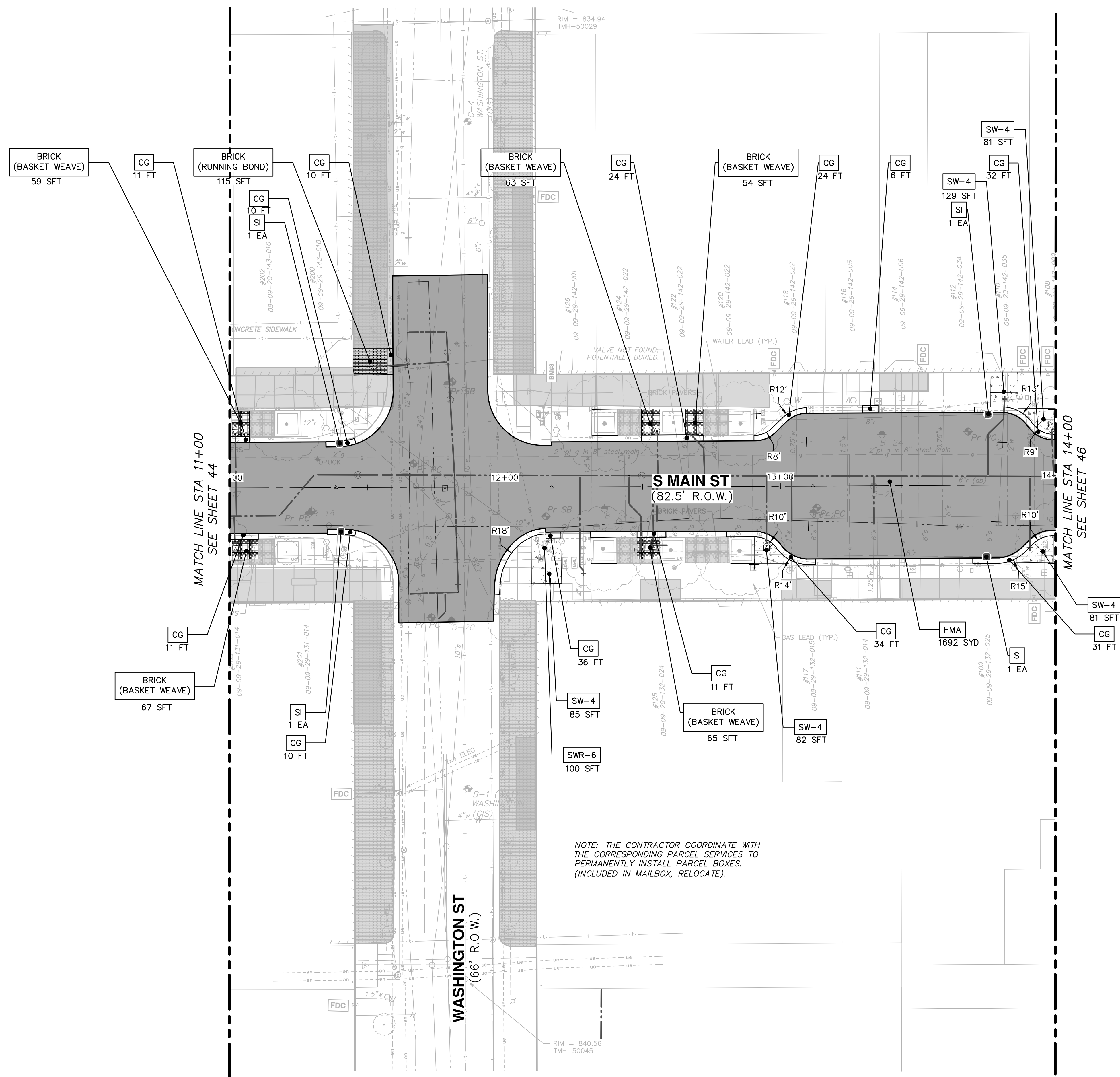
CONSTRUCTION KEY

KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
CG	CURB AND GUTTER, CONC, MATCH EXISTING, SPECIAL
MOUNT	MOUNTABLE CURB AND GUTTER
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, SPECIAL
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWS	DETECTABLE WARNING SURFACE, MODIFIED
BRICK	BRICK PAVERS, INSTALL SALVAGED (BASKET WEAVE)
SI	SINGLE INLET WITH 2-FOOT SUMP



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- PROPOSED PAVEMENT LIMITS



NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
CG	CURB AND GUTTER, CONC, MATCH EXISTING, SPECIAL
MOUNT	MOUNTABLE CURB AND GUTTER
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, SPECIAL
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWS	DETECTABLE WARNING SURFACE, MODIFIED
BRICK	BRICK PAVERS, INSTALL SALVAGED (BASKET WEAVE OR RUNNING BOND)
SI	SINGLE INLET WITH 2-FOOT SUMP

NOTE: THE CONTRACTOR COORDINATE WITH THE CORRESPONDING PARCEL SERVICES TO PERMANENTLY INSTALL PARCEL BOXES. (INCLUDED IN MAILBOX, RELOCATE).

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED ROAD CONSTRUCTION PLAN STA 11+00 TO STA 14+00

SCALE PLAN: 1"=40'

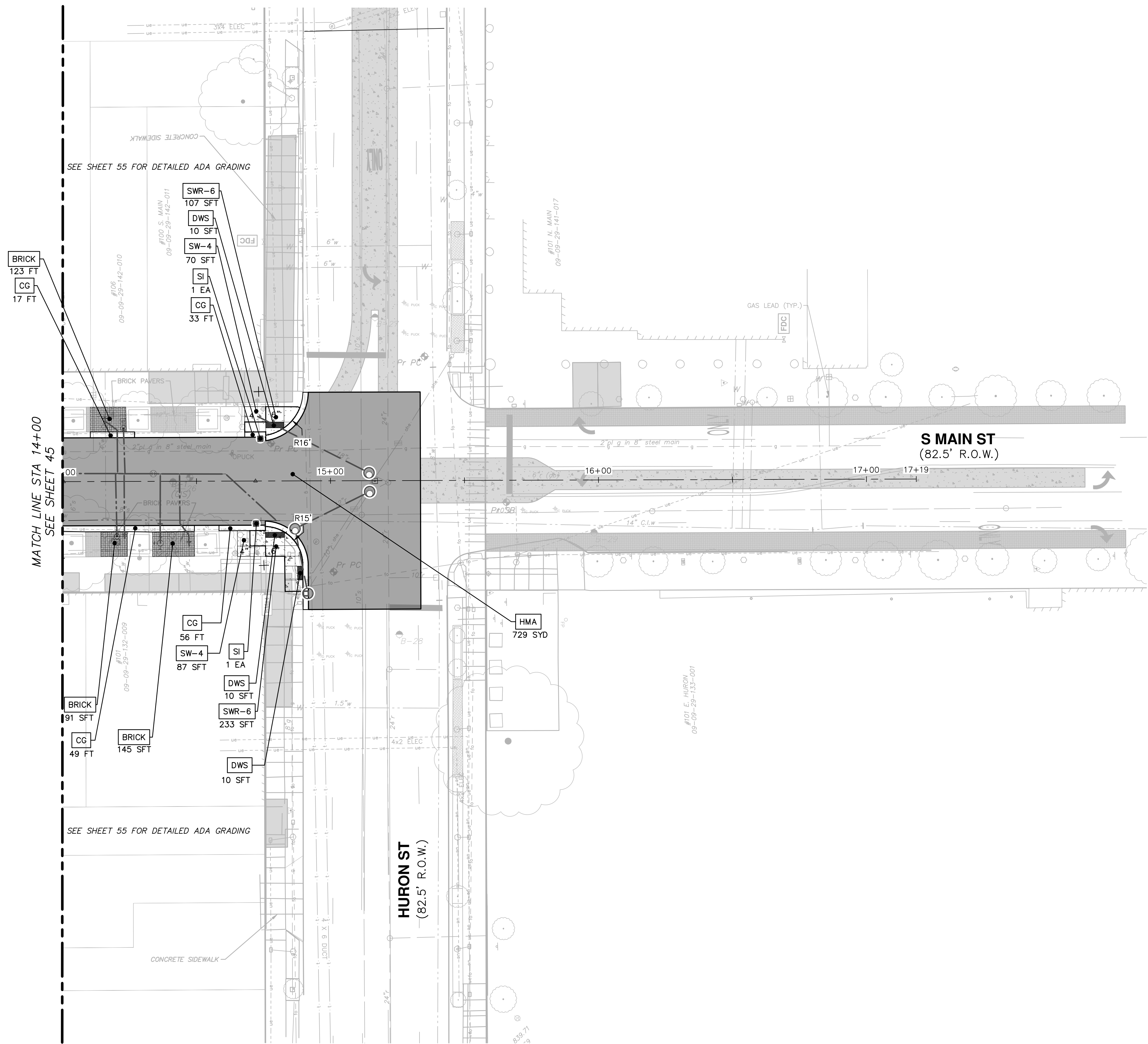
DRAWING No. 2020-038-45

SHEET No. 45 OF 80

811
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR PUBLIC SERVICES
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LEGEND

- EXISTING BUILDING VAULTS
- EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- PROPOSED PAVEMENT LIMITS



NOTE: THE CONTRACTOR SHALL PROTECT EXISTING CONDUIT UNDER CURB AND GUTTER SECTIONS THROUGHOUT CONSTRUCTION OPERATIONS.

CONSTRUCTION KEY	
KEY	DESCRIPTION
HMA	SURFACE AREA FOR HMA
CG	CURB AND GUTTER, CONC, MATCH EXISTING, SPECIAL
MOUNT	MOUNTABLE CURB AND GUTTER
SW-4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SWR-6	SIDEWALK RAMP, CONCRETE, 6 INCH, SPECIAL
SW-6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWS	DETECTABLE WARNING SURFACE, MODIFIED
BRICK	BRICK PAVERS, INSTALL SALVAGED (BASKET WEAVE)
SI	SINGLE INLET WITH 2-FOOT SUMP

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED ROAD CONSTRUCTION PLAN STA 14+00 TO STA 14+75.95

SCALE PLAN: 1"=20'

DRAWING No. 2020-038-46

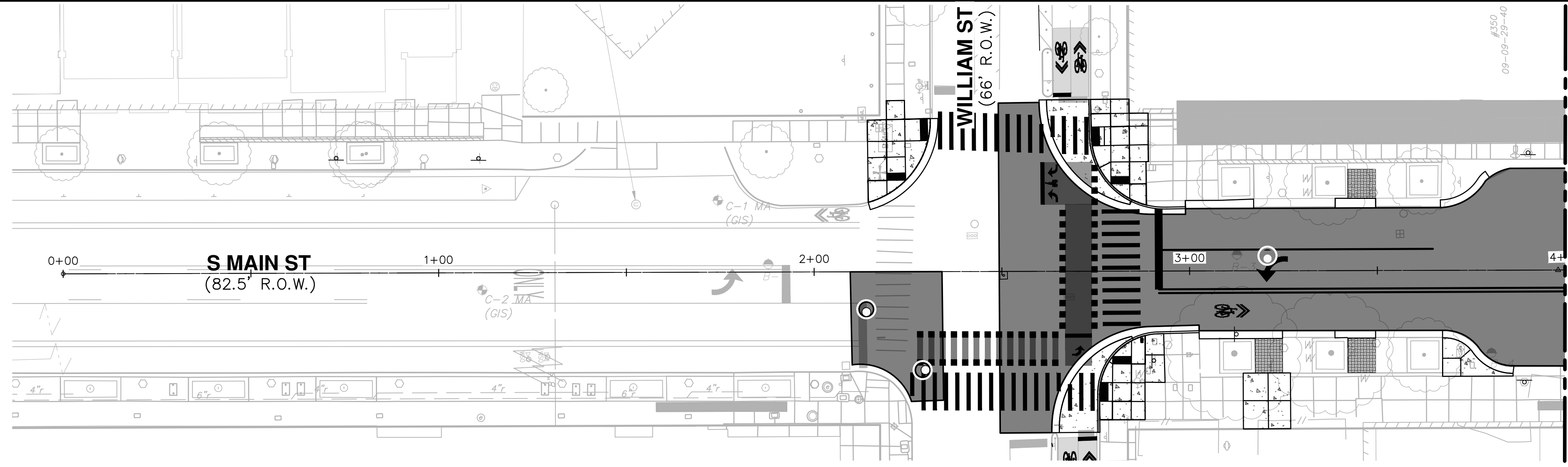
SHEET No. 46 OF 80

811
Know what's below. Call before you dig.

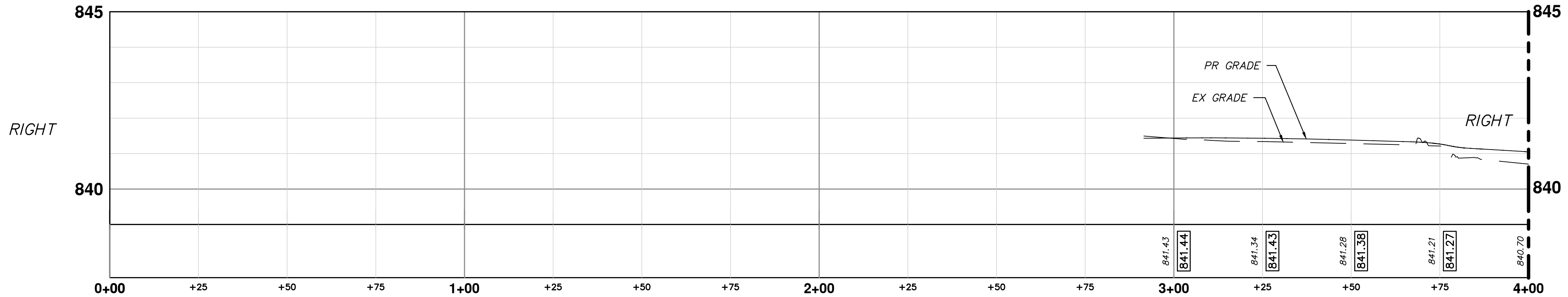
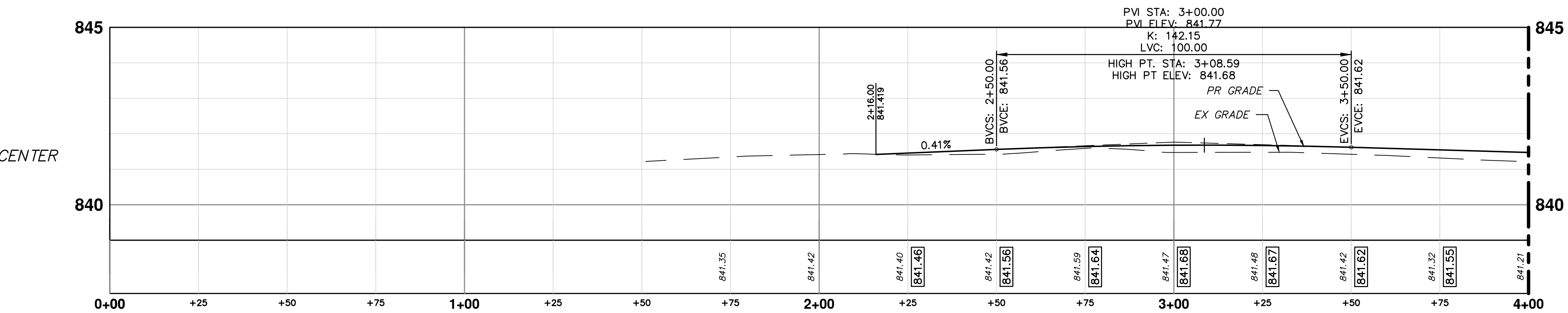
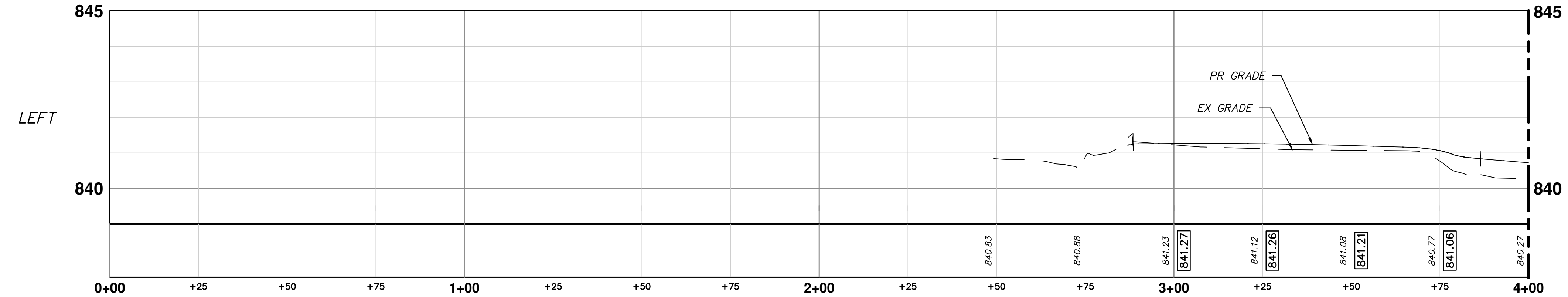
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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- LEGEND**
- EXISTING BUILDING VAULTS
 - APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
 - EXISTING BRICK PAVER AREA
 - PROPOSED PAVEMENT LIMITS



MATCH LINE STA 4+00
SEE SHEET 48

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

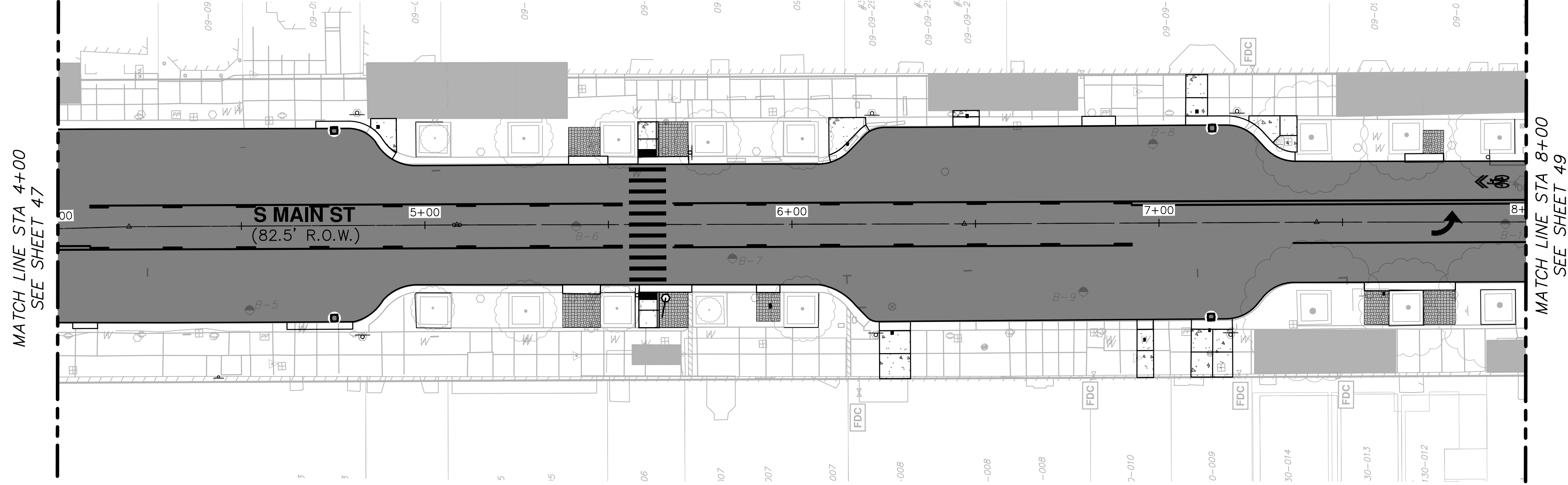
PROPOSED PAVING PLAN & PROFILE STA 0+00 TO STA 4+00

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING No. 2020-038-47

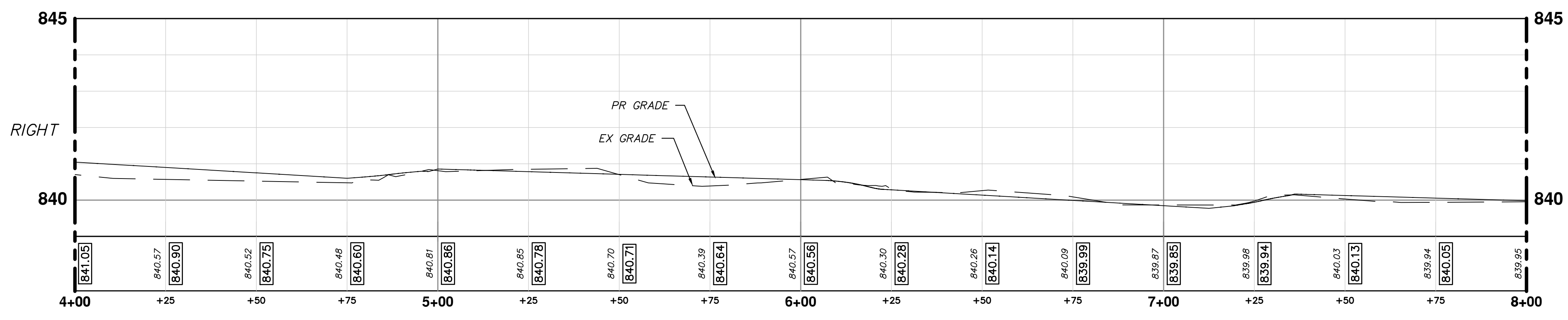
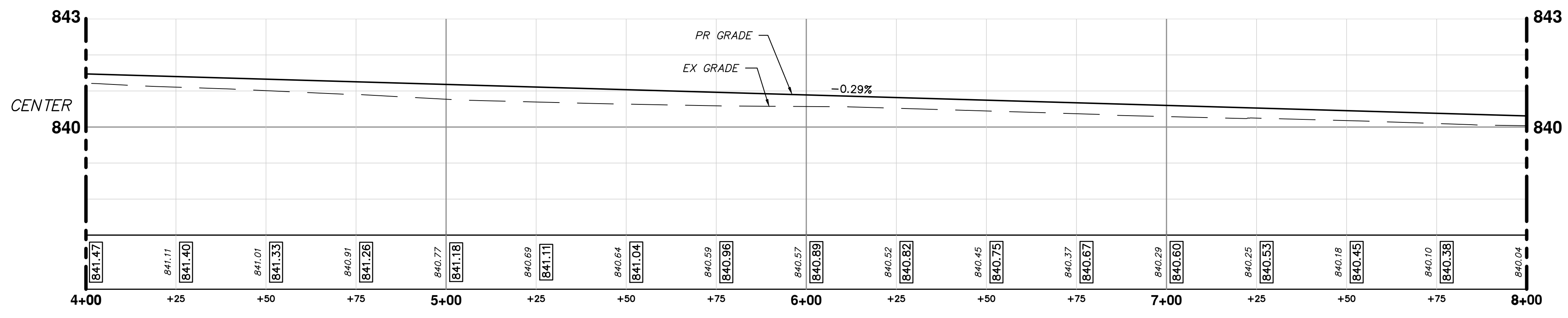
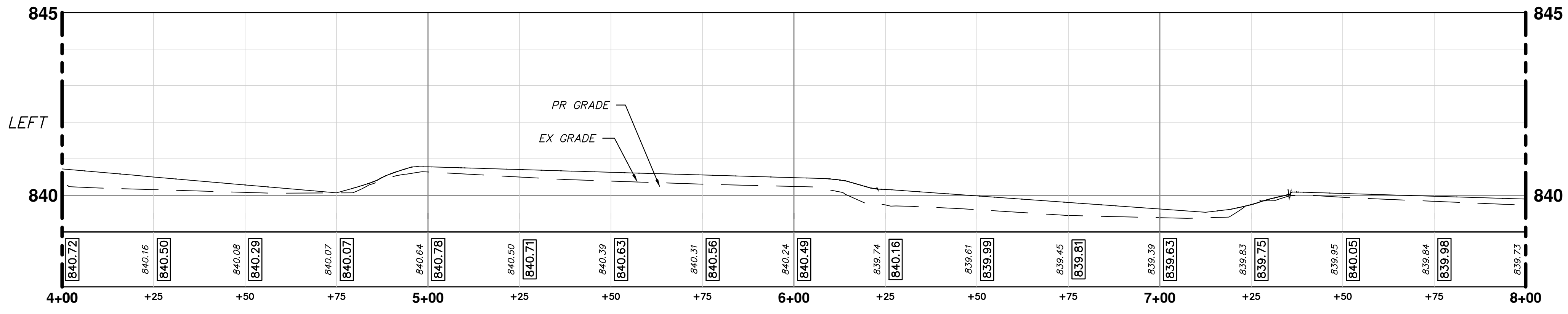
REV.	DESCRIPTION	DATE	DRAWN	CHECKED

SHEET No. 47 OF 80



LEGEND

- EXISTING BUILDING VAULTS
- APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- PROPOSED PAVEMENT LIMITS



MATCH LINE STA 4+00 SEE SHEET 47

MATCH LINE STA 8+00 SEE SHEET 49

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED PAVING PLAN & PROFILE STA 4+00 TO STA 8+00

SCALE PLAN: 1"=20' PROFILE: 1"=5'

DRAWING No. 2020-038-48

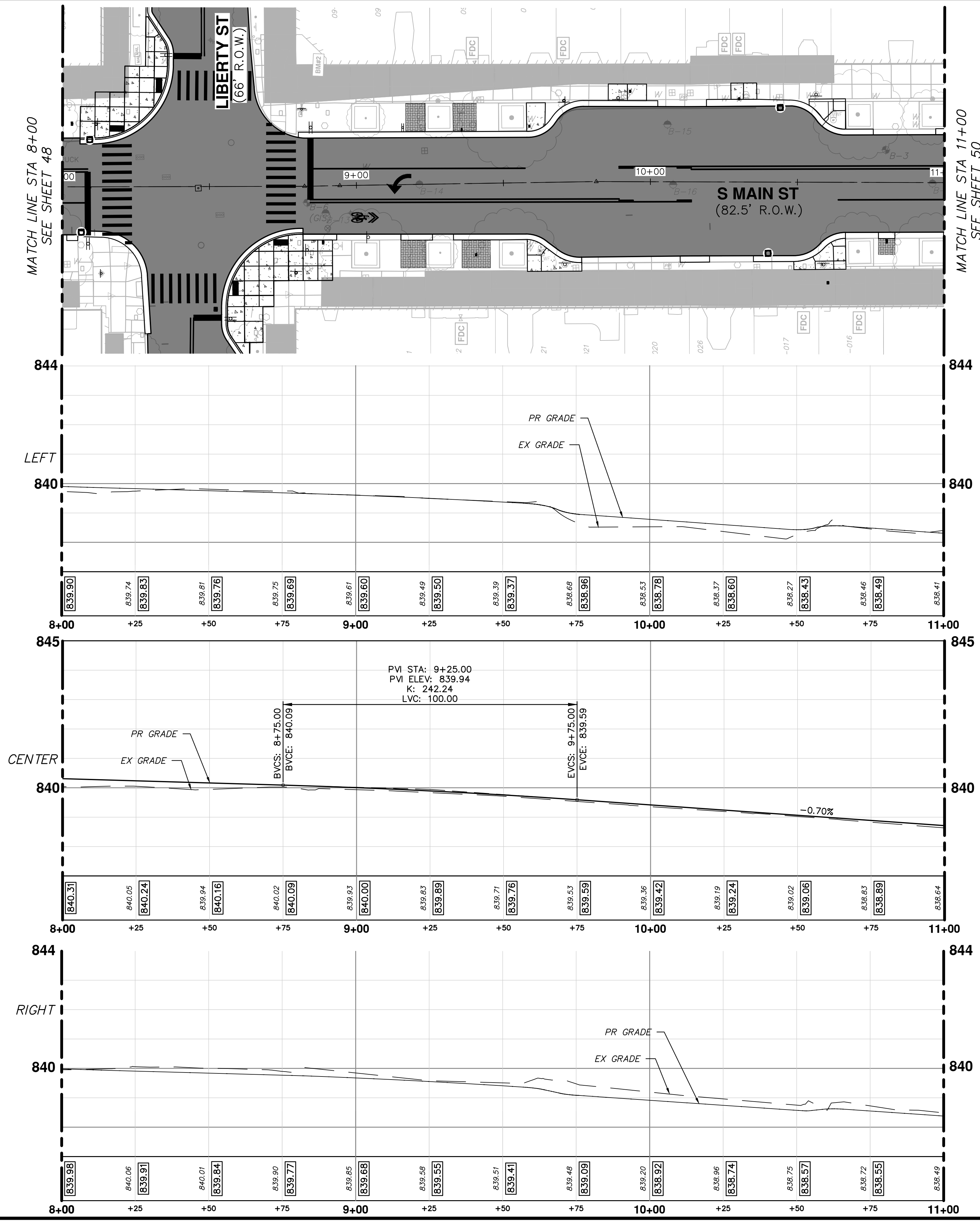
SHEET No. 48 OF 80

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

Know what's below. Call before you dig.

MATCH LINE STA 8+00
SEE SHEET 48



MATCH LINE STA 11+00
SEE SHEET 50

- LEGEND**
- EXISTING BUILDING VAULTS
 - APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
 - EXISTING BRICK PAVER AREA
 - PROPOSED PAVEMENT LIMITS



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED PAVING PLAN & PROFILE STA 8+00 TO STA 11+00

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING No. 2020-038-49

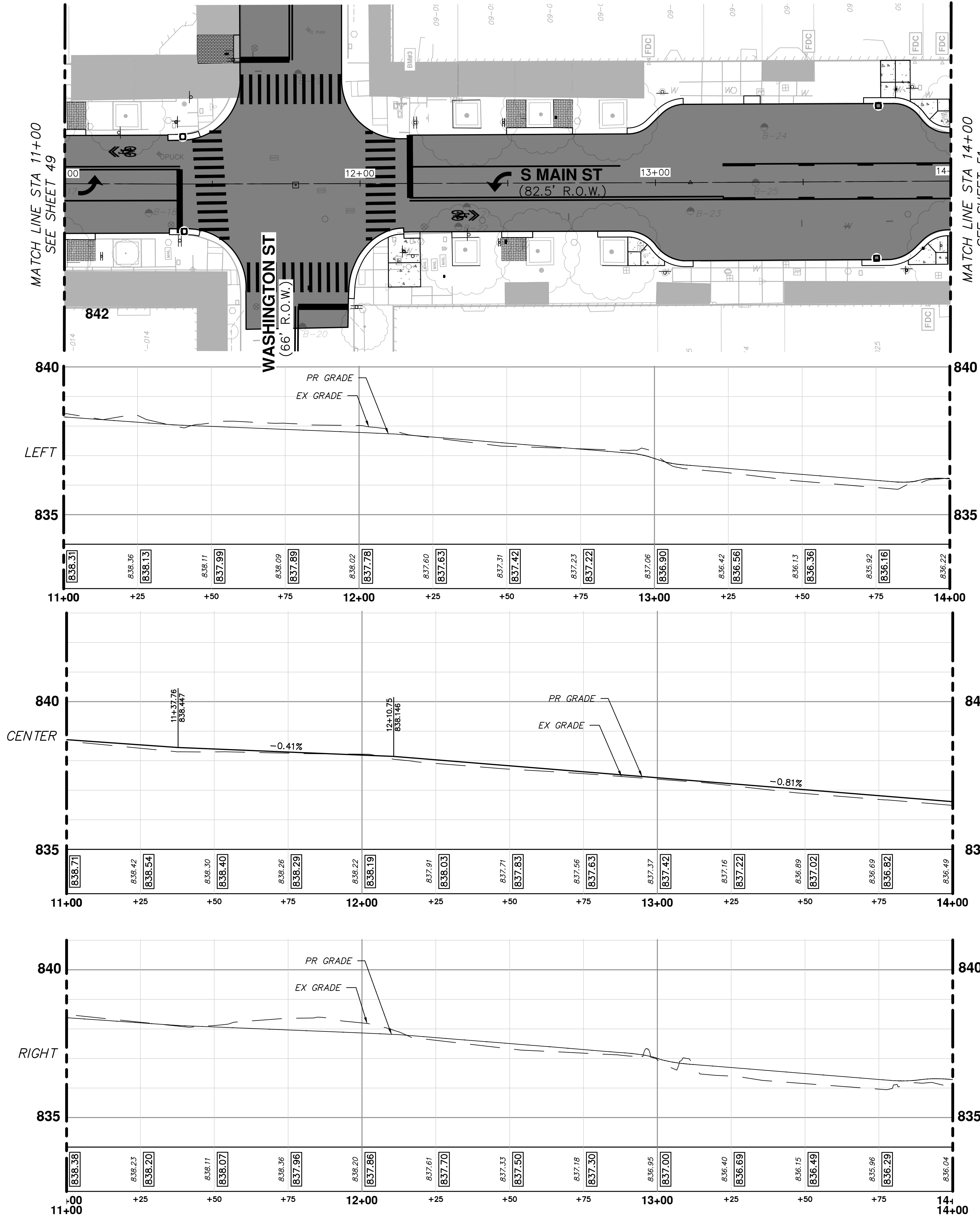
SHEET No. 49 OF 80

811
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR
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MATCH LINE STA 11+00
SEE SHEET 49



MATCH LINE STA 14+00
SEE SHEET 51

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED PAVING PLAN & PROFILE STA 11+00 TO STA 14+00

SCALE PLAN: 1"=20' PROFILE: 1"=5'

DRAWING No. 2020-038-50

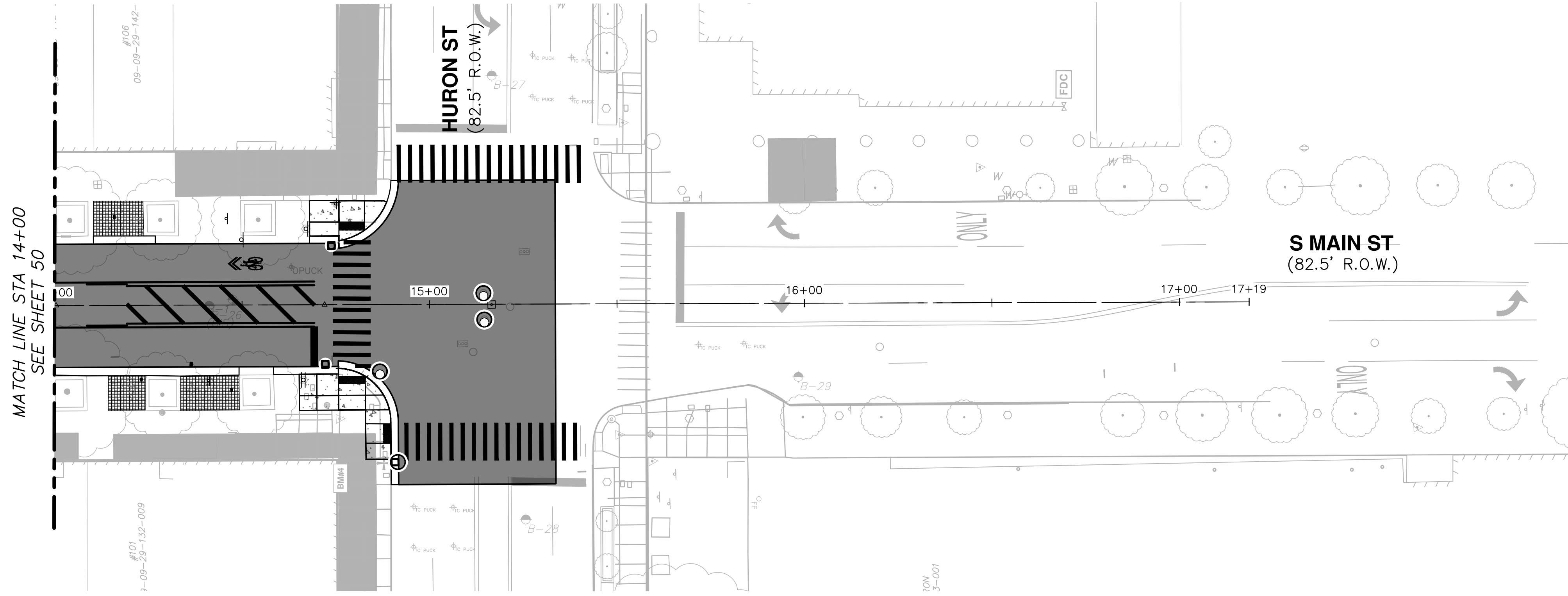
SHEET No. 50 OF 80

811
Know what's below.
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED

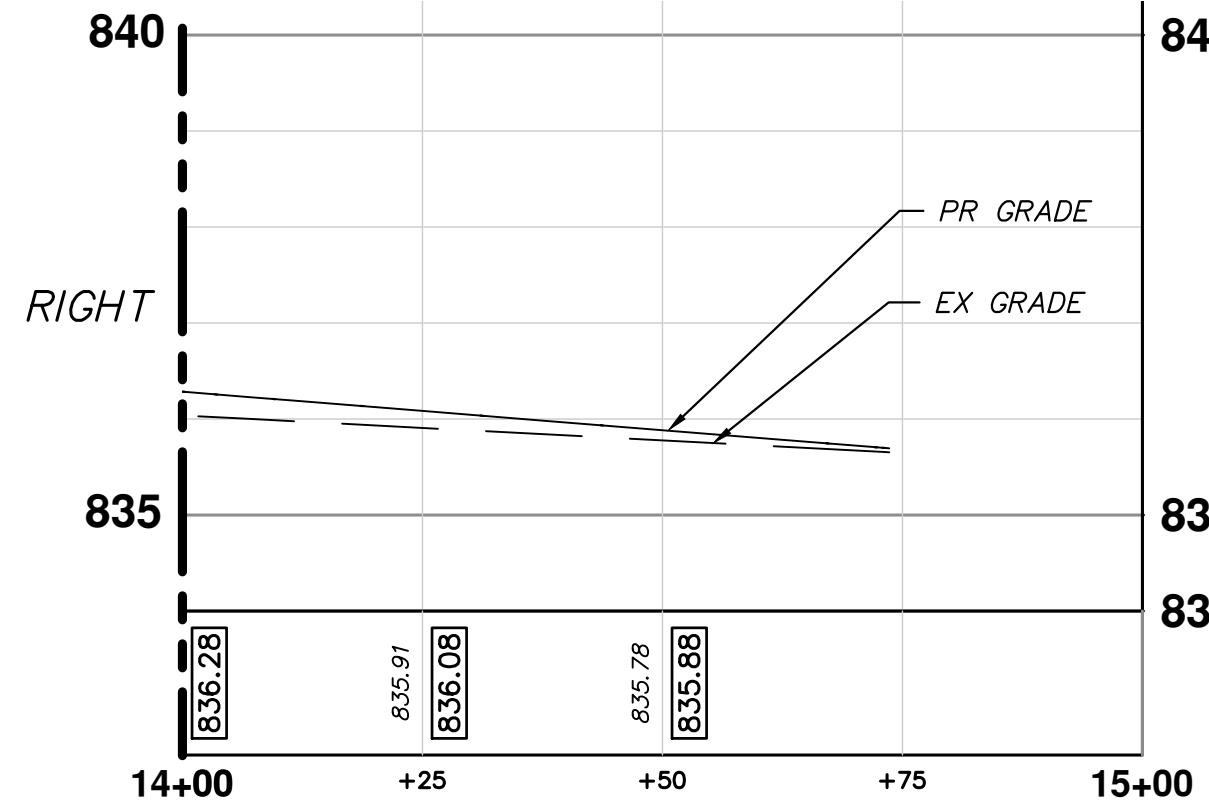
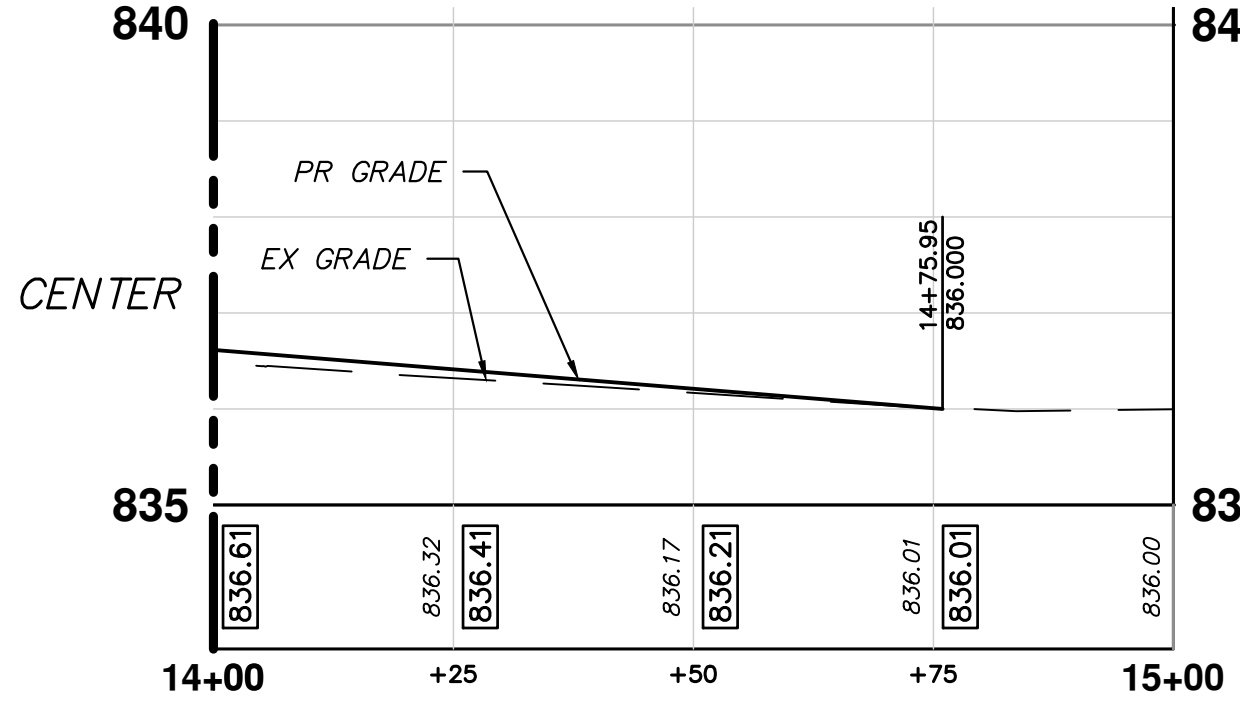
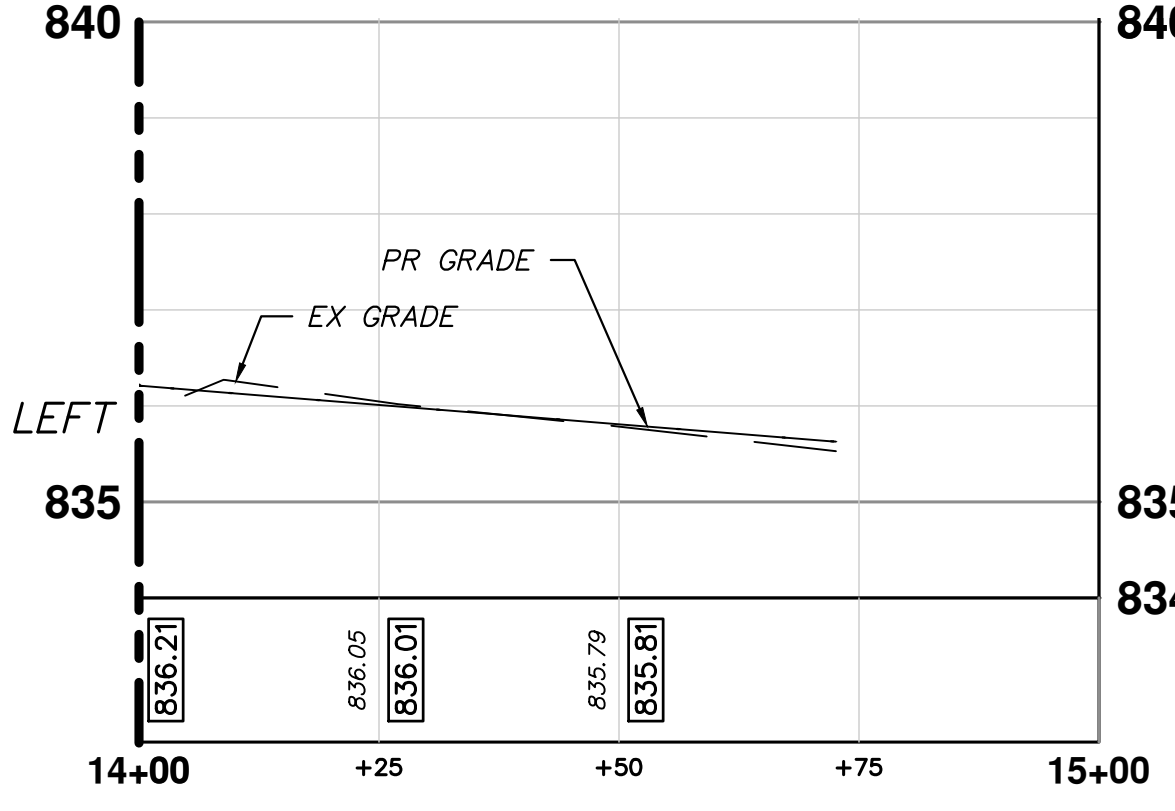
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-6647
www.a3gov.org

MATCH LINE STA 14+00
SEE SHEET 50



LEGEND

- EXISTING BUILDING VAULTS
- APPROXIMATE LOCATION OF THE EXISTING TROLLEY TRACK FOUNDATION AREA
- EXISTING BRICK PAVER AREA
- PROPOSED PAVEMENT LIMITS



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PROPOSED PAVING PLAN & PROFILE STA 14+00 TO STA 14+75.95

SCALE PLAN: 1"=20'
PROFILE: 1"=5'

DRAWING No. 2020-038-51

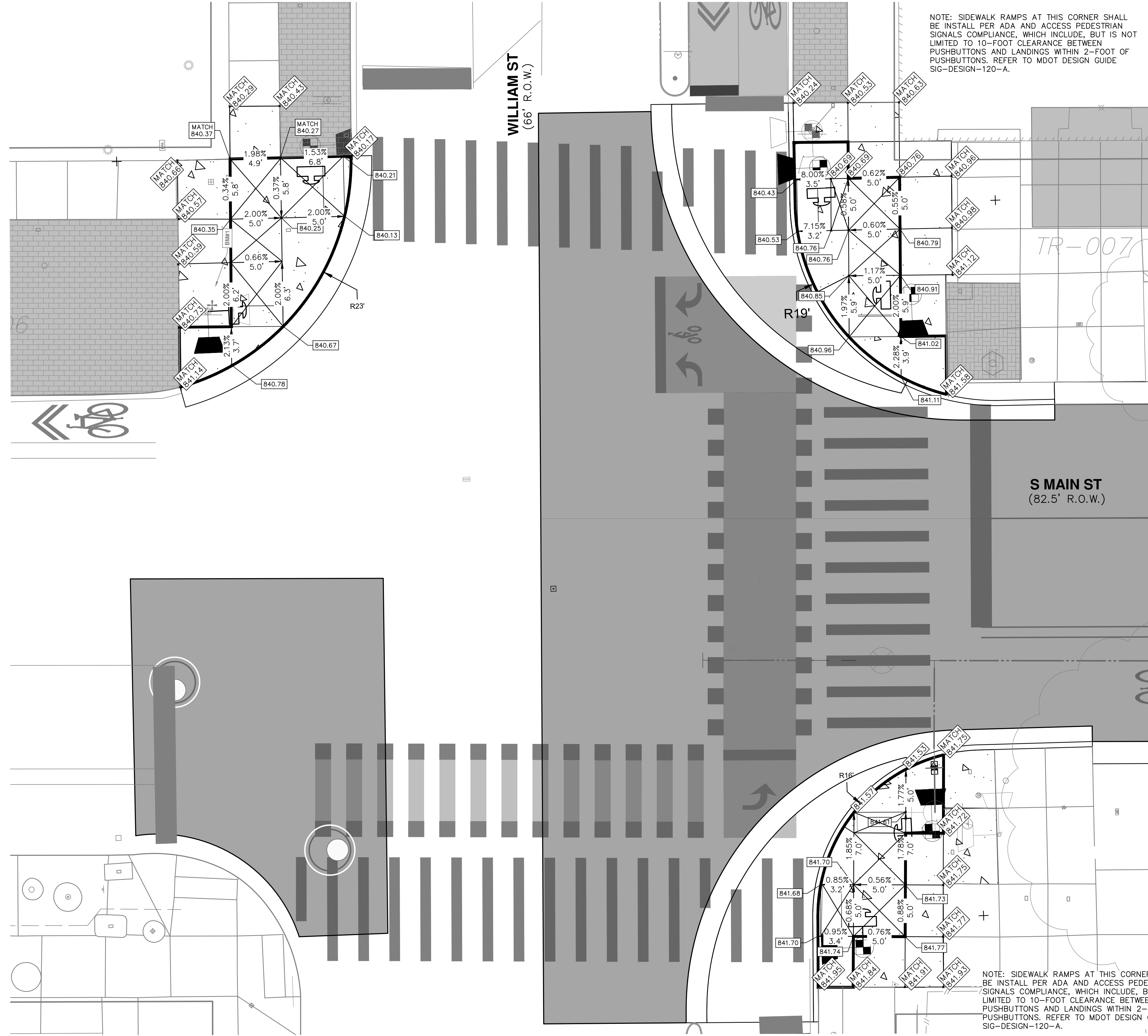
811
Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

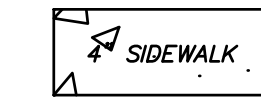
CITY OF ANN ARBOR
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SHEET No. 51 OF 80

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LEGEND



NOTES:

IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMP OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMP.



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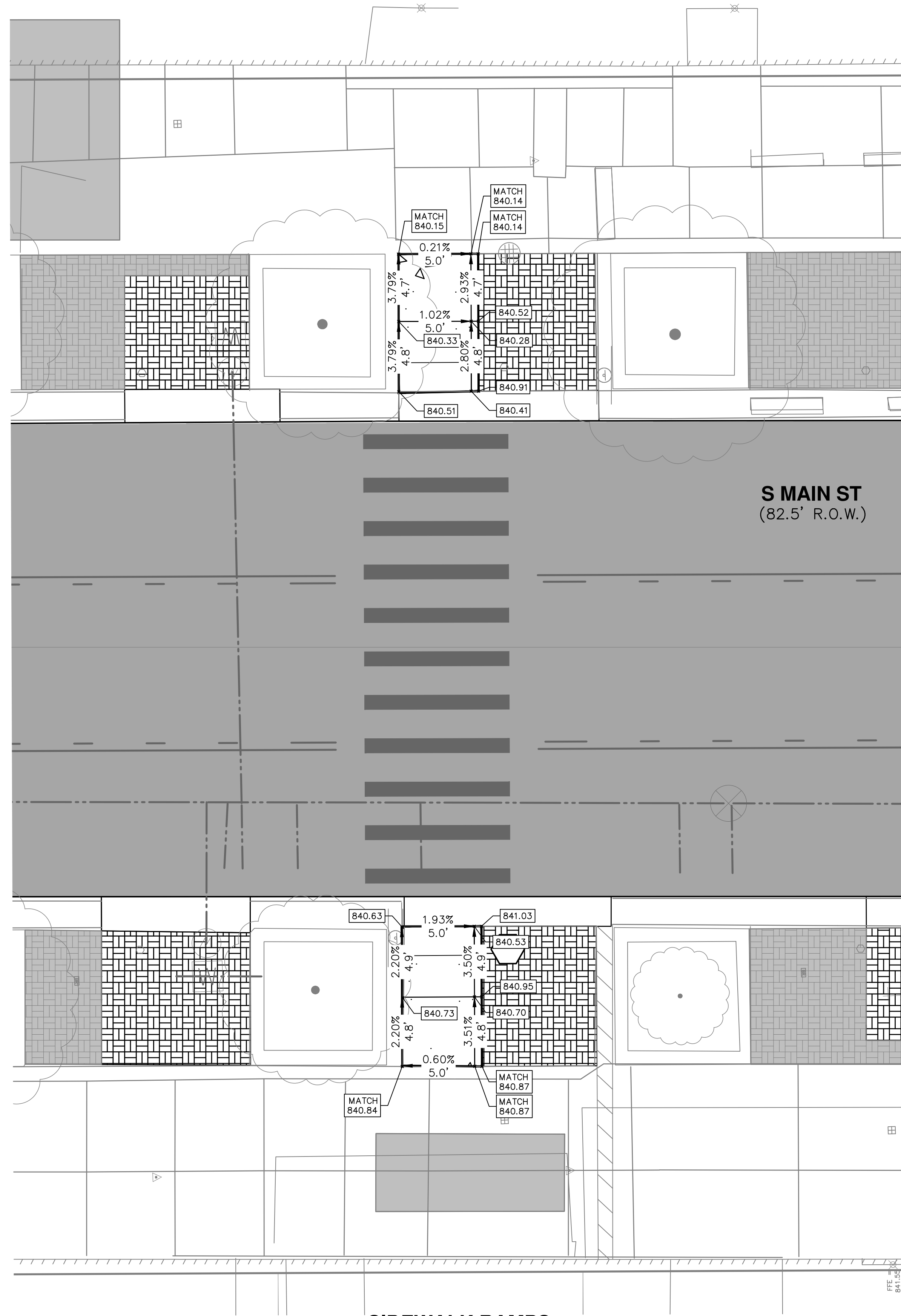


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT
ADA RAMPS - S MAIN AND WILLIAM

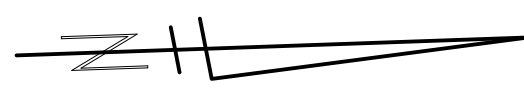
SCALE PLAN: 1"=4'
DRAWING No. 2020-038-52

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

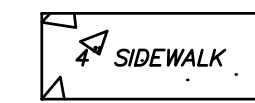
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**SIDEWALK RAMPS
322 AND 327 S. MAIN ST**



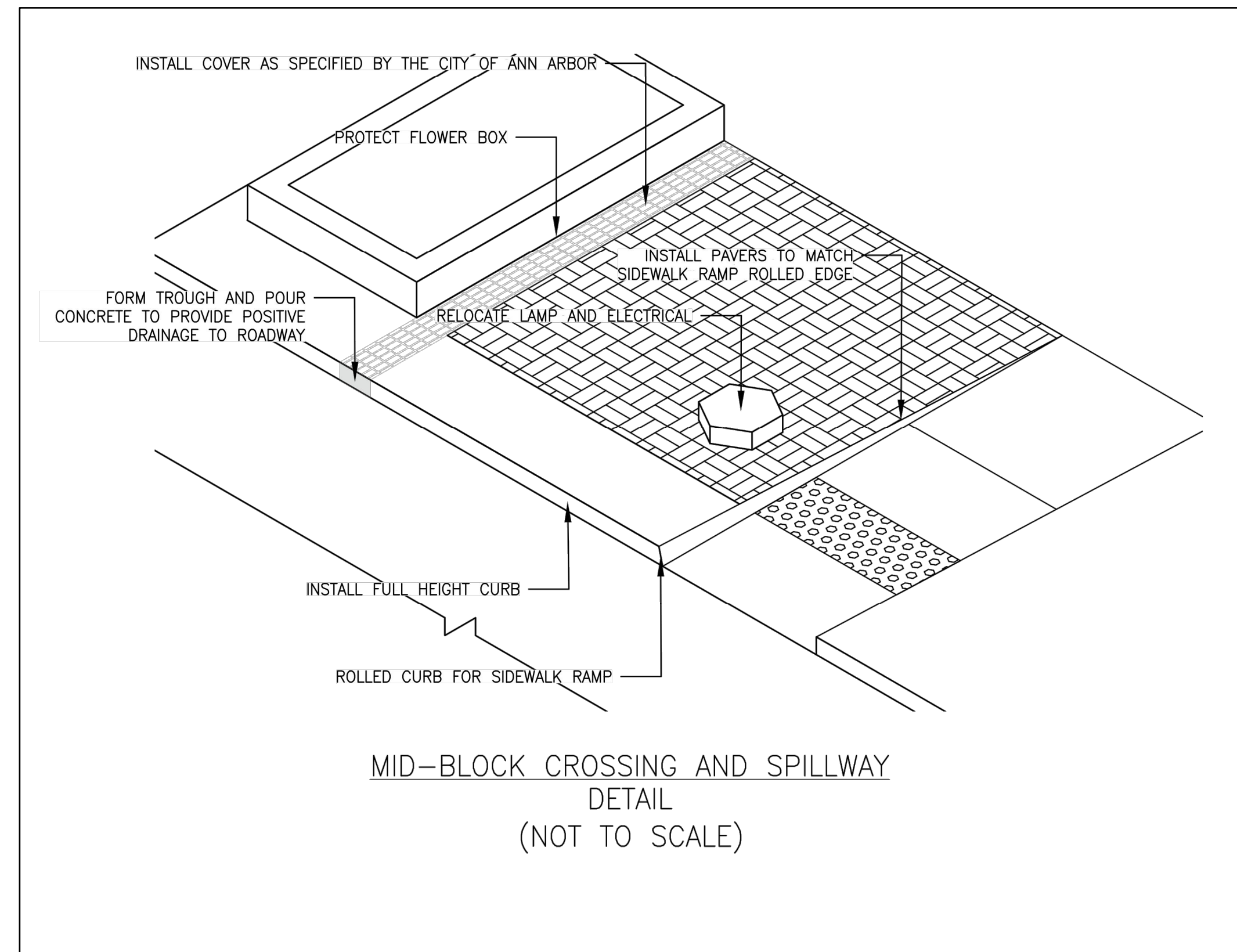
LEGEND



NOTES:

IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMPS OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMPS.

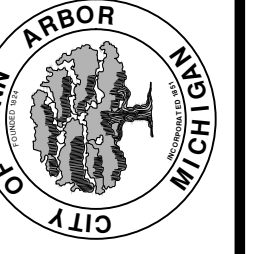


**MID-BLOCK CROSSING AND SPILLWAY
DETAIL
(NOT TO SCALE)**



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
**S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT**
ADA RAMPS - S MAIN MID-BLOCK BETWEEN WILLIAM AND LIBERTY

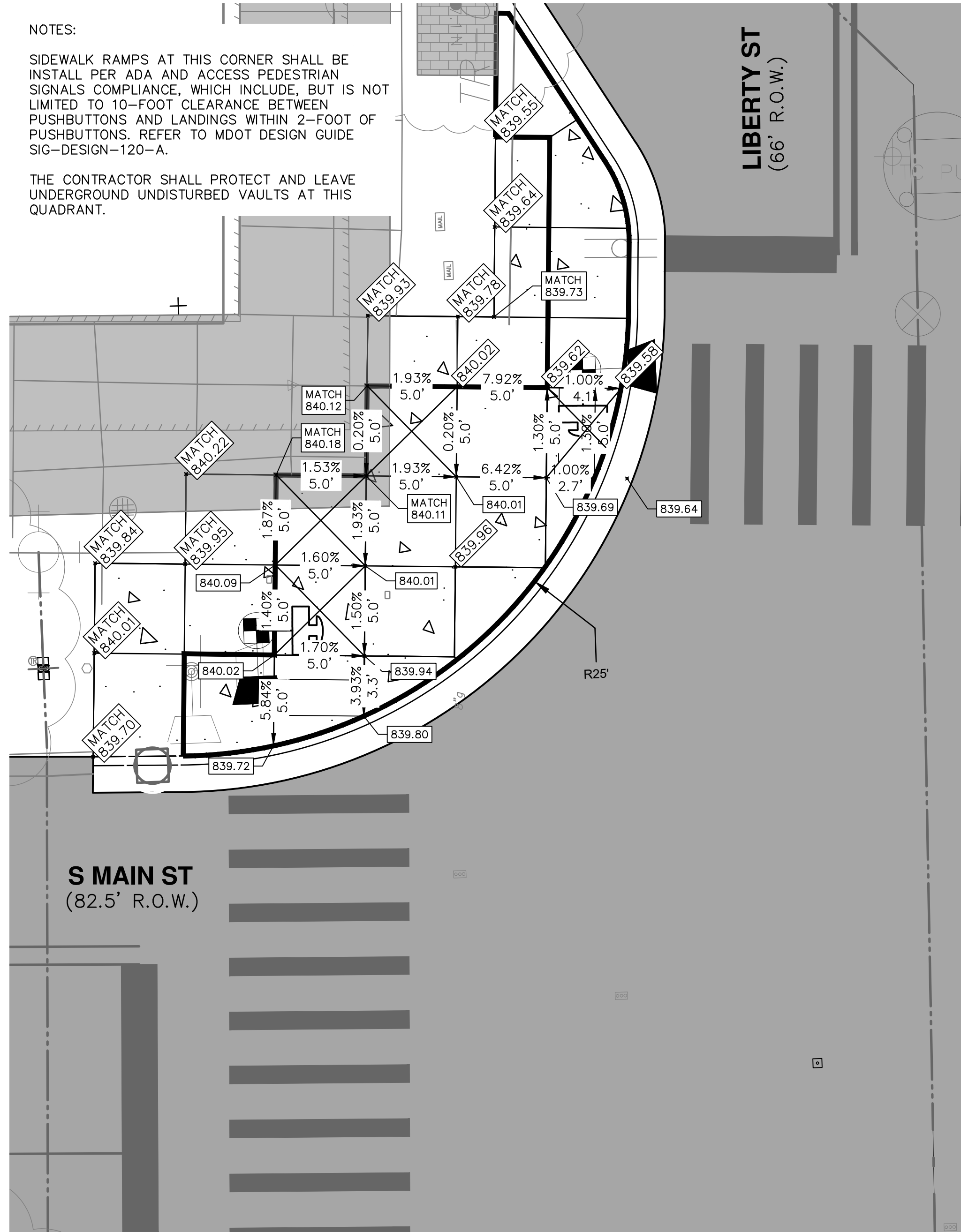
SCALE PLAN: #####
PROFILE: 1" = 5'
DRAWING No. 2020-038-53

C:\pwwork\g1092459\CRD-PLTS-S Main ADA.dwg Dwg Created: 20-Nov-22 --_a2 standard bw.stb -- Plot Date: 21-Nov-22

NOTES:

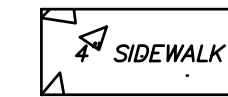
SIDEWALK RAMPS AT THIS CORNER SHALL BE INSTALLED PER ADA AND ACCESS PEDESTRIAN SIGNALS COMPLIANCE, WHICH INCLUDE, BUT IS NOT LIMITED TO 10-FOOT CLEARANCE BETWEEN PUSHBUTTONS AND LANDINGS WITHIN 2-FOOT OF PUSHBUTTONS. REFER TO MDOT DESIGN GUIDE SIG-DESIGN-120-A.

THE CONTRACTOR SHALL PROTECT AND LEAVE UNDERGROUND UNDISTURBED VAULTS AT THIS QUADRANT.



**SIDEWALK RAMP
S. MAIN ST AND LIBERTY ST
(SW QUADRANT)**

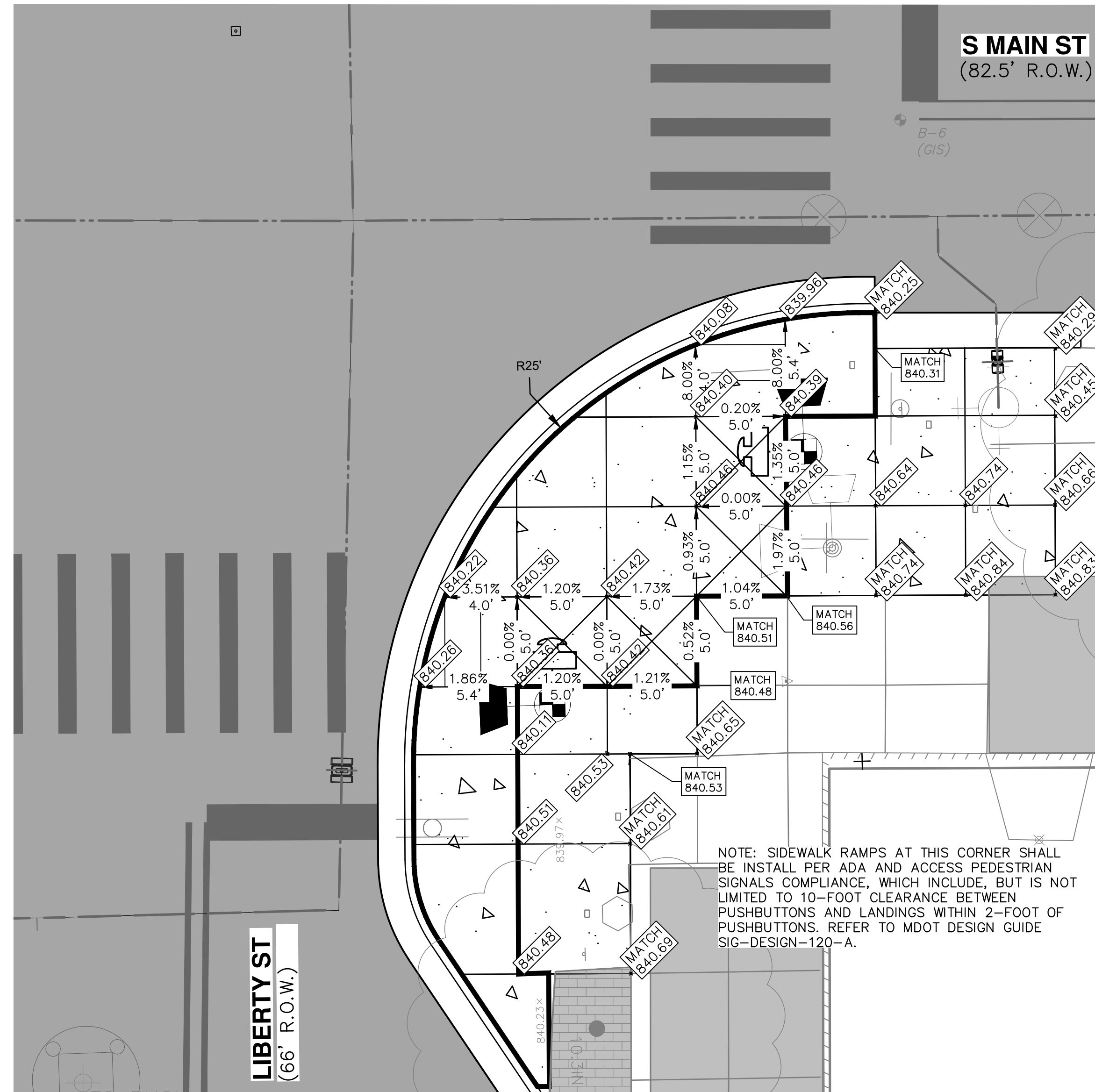
LEGEND



NOTES:

IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMPS OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMPS.



**SIDEWALK RAMP
S. MAIN ST AND LIBERTY ST
(NE QUADRANT)**

NOTE: SIDEWALK RAMPS AT THIS CORNER SHALL BE INSTALLED PER ADA AND ACCESS PEDESTRIAN SIGNALS COMPLIANCE, WHICH INCLUDE, BUT IS NOT LIMITED TO 10-FOOT CLEARANCE BETWEEN PUSHBUTTONS AND LANDINGS WITHIN 2-FOOT OF PUSHBUTTONS. REFER TO MDOT DESIGN GUIDE SIG-DESIGN-120-A.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

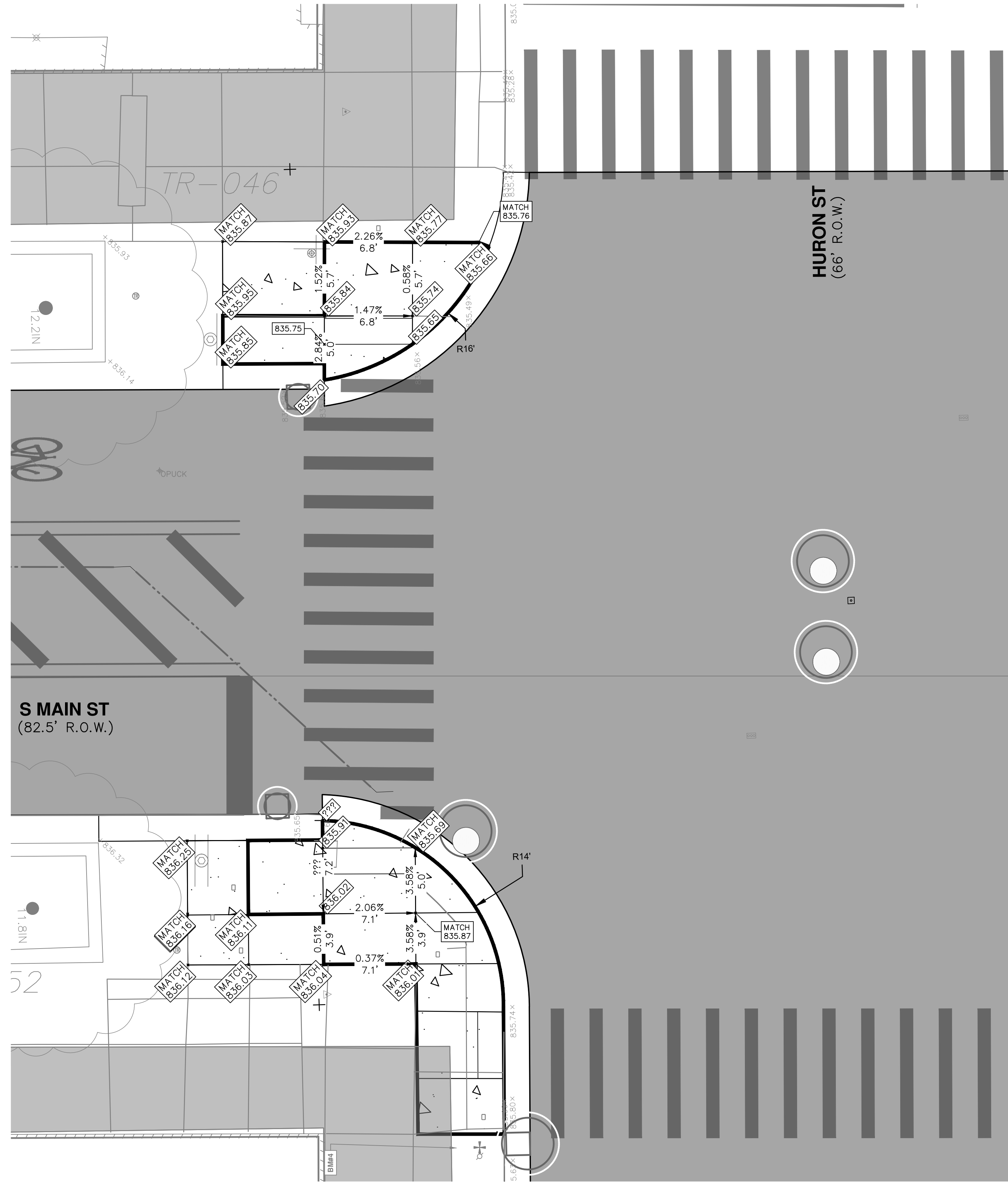
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PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
**S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT**
ADA RAMPS - S MAIN AND LIBERTY

SCALE PLAN: 1"=5'
DRAWING No. 2020-038-54

C:\pwork\g1092459\CRD-PLTS-S Main ADA.dwg Dwg Created: 20-Nov-22 --_g2 standard bw.stb -- Plot Date: 21-Nov-22



LEGEND



NOTES:

IF THE CONSTRUCTED SIDEWALK IS FOUND TO EXCEED THE MAXIMUM TRANSVERSE SLOPE OF 2% OR LONGITUDINAL SLOPE AT RAMP OF 8.3%, THE SIDEWALK SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL PROTECT ALL BRICK PAVER AREAS ADJACENT TO SIDEWALKS AND SIDEWALK RAMP.

**SIDEWALK RAMPS
S. MAIN ST AND HURON ST
(SE AND SW QUADRANTS)**

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING																										
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT ADA RAMPS - S MAIN AND HURON																										
SCALE PLAN: ##### DRAWING No. 2020-038-55	PROFILE: 1" = 5' SHEET No. 55 OF 80																									
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 ANN ARBOR: 734.794.4410 WWW.A2GOV.ORG	<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECKED																				
REV.	DESCRIPTION	DATE	DRAWN	CHECKED																						

GENERAL NOTES:

- THIS IS A HISTORICAL DRAWING WHICH HAS BEEN MODIFIED TO INCLUDE NOTES REGARDING WORK THAT IS INCLUDED IN THE PAY ITEM LIGHT FDN, POST, ELECTRICAL, REM, SALV, REINSTALL - LUMP SUM.
- THE PURPOSE OF THIS WORK IS TO REMOVE, SALVAGE, AND SECURELY STORE THE EXISTING LIGHT POST, BASE, MAST ARMS, AND LUMINAIRE IN A CLEAN ENVIRONMENT FREE FROM MOISTURE, REMOVE AND DISPOSE OF THE EXISTING FOUNDATION, AND INSTALL A NEW FOUNDATION AND THE SALVAGED POST AND LUMINAIRE AT THE PROPOSED LOCATION.
- THE LUMINAIRE, POST, AND FOUNDATION ARE LOCATED IN FRONT OF 327 S. MAIN STREET.

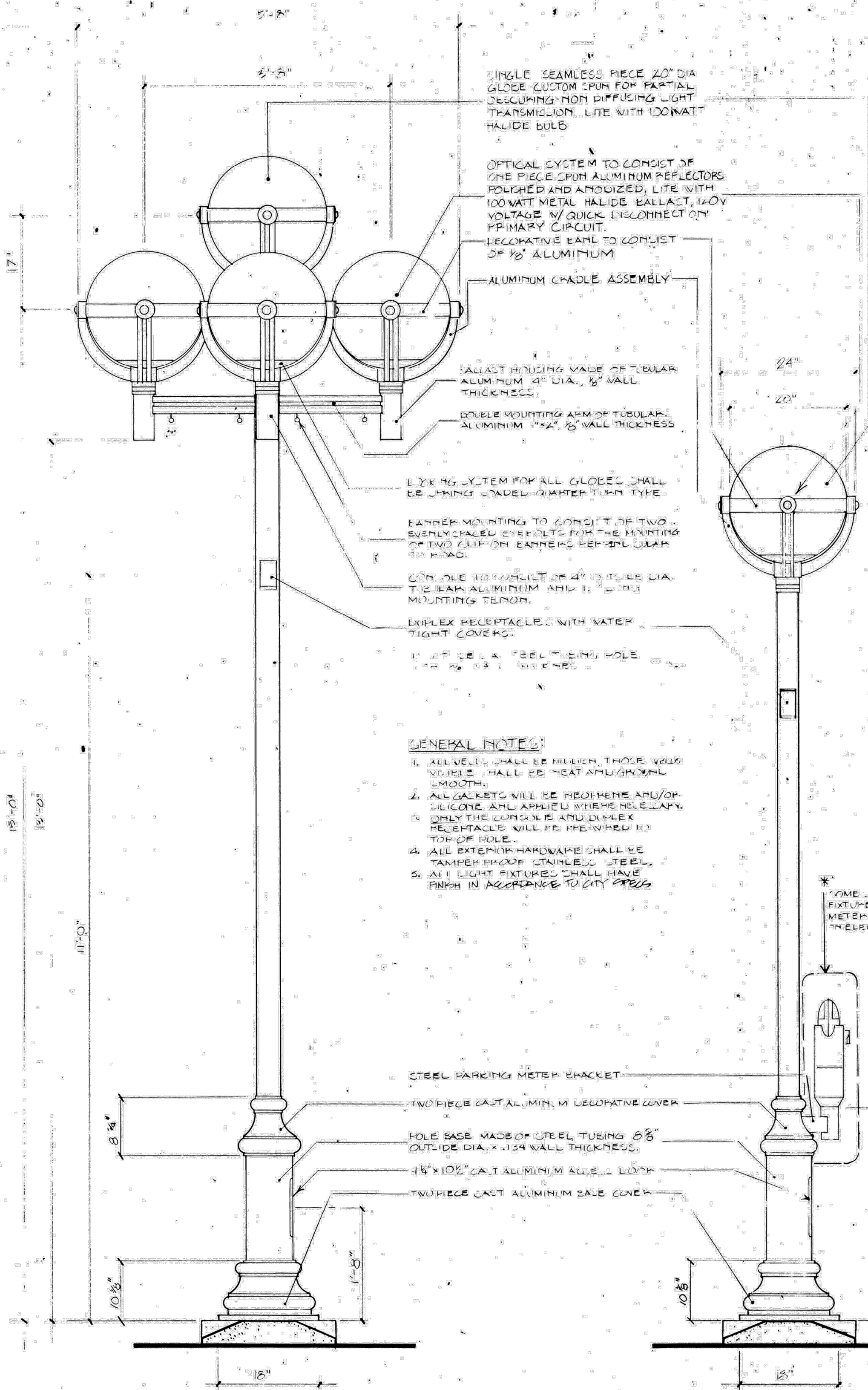
ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ELECTRIC CODES BY A LICENSED ELECTRICIAN.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL ELECTRICAL COMPONENTS NECESSARY TO FACILITATE THIS WORK IN A SAFE AND EXPEDITIOUS MANNER TO MEET THE EXPECTATIONS OF THE CITY OF ANN ARBOR.
- THE CONTRACTOR SHALL DE-ENERGIZE AND/OR ENERGIZE, DISCONNECT AND/OR CONNECT TO ANY CIRCUITS UNDER THE EXPRESSED CONSENT OF THE CITY OF ANN ARBOR ONLY.
- THE CONTRACTOR SHALL DE-ENERGIZE THE LUMINAIRE VIA THE CIRCUIT PROTECTION DEVICE NEAREST THE LUMINAIRE ALONG THE ELECTRICAL PATH AND SHALL ENSURE THAT ONLY THE MINIMUM NUMBER OF LUMINAIRES AND CIRCUITS ARE DE-ENERGIZED TO COMPLETE THIS WORK.
- THE CONTRACTOR SHALL COORDINATE WITH CITY PERSONNEL AND INSPECTORS TO IDENTIFY ALL WORK WHICH REQUIRES ELECTRICAL INSPECTION AND TO SCHEDULE ALL REQUIRED INSPECTION IN ADVANCE AND IN A TIMELY MANNER TO COMPLETE THIS WORK.
- IN ADVANCE OF ALL CONSTRUCTION, THE CONTRACTOR SHALL DISCONNECT, REMOVE, AND DISPOSE OF ALL CONDUCTORS AND GROUNDS LEADING FROM THE LUMINAIRE TO THE CONNECTION AT THE NEAREST JUNCTION OF THE CIRCUIT IN A SAFE AND SECURE MANNER WHICH LEAVES THE OTHER STREET LAMPS SERVICEABLE. THE CONTRACTOR SHALL REMOVE AND SECURELY STORE THE EXISTING POST, BASE, MAST ARMS, AND LUMINAIRE.
- AFTER COMPLETING ELECTRICAL REMOVALS, THE CONTRACTOR SHALL ENSURE THAT ANY/ALL OTHER STREET LAMPS ALONG THE CIRCUIT ARE ENERGIZED AND IN AN OPERATIONAL STATE EQUIVALENT TO THAT OF PRIOR TO COMMENCING WORK.
- AFTER THE EXISTING FOUNDATION, BRICK PAVERS, AND CONCRETE BASE ARE REMOVED AND BACKFILLED, THE CONTRACTOR SHALL RETURN TO REMOVE AND DISPOSE OF EXISTING CONDUIT AND INSTALL THE PROPOSED FOUNDATION, ANCHORS, AND CONDUIT.
- THE CONTRACTOR SHALL ALLOW THE FOUNDATION TO CURE A MINIMUM OF 7 DAYS AND THEN INSTALL THE BASE, POST, MAST ARMS, LUMINAIRE, ASSOCIATED HARDWARE, CONDUCTORS, AND GROUNDS AND TO CONNECT TO THE EXISTING CIRCUIT.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY ELECTRICAL INSPECTOR IN A TIMELY MANNER TO INSPECT THE LUMINAIRE AND ALL CONDUCTORS, GROUNDS, AND CONNECTIONS BEFORE ENERGIZING THE CIRCUIT.
- CONDUCTORS AND GROUNDS SHALL BE THE APPROPRIATE SIZE FOR THE LOAD.
- ANY/ALL STORAGE FACILITIES, BOXES, CIRCUIT PROTECTION DEVICES, RECEPTACLES, SPLICES, CONDUCTORS, GROUNDS, CONDUIT, CABLES, PERMIT REQUIREMENTS, INSPECTION FEES, WEATHER PROTECTION MEASURES, CONNECTORS, SAFETY MEASURES, FITTINGS, HARDWARE, OR ANY OTHER ELECTRICAL OR SAFETY COMPONENTS OR ITEMS/EFFORT REQUIRED TO COMPLETE THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEM LIGHT FDN, POST, ELECTRICAL, REM, SALV, REINSTALL - LUMP SUM.

FOUNDATION NOTES:

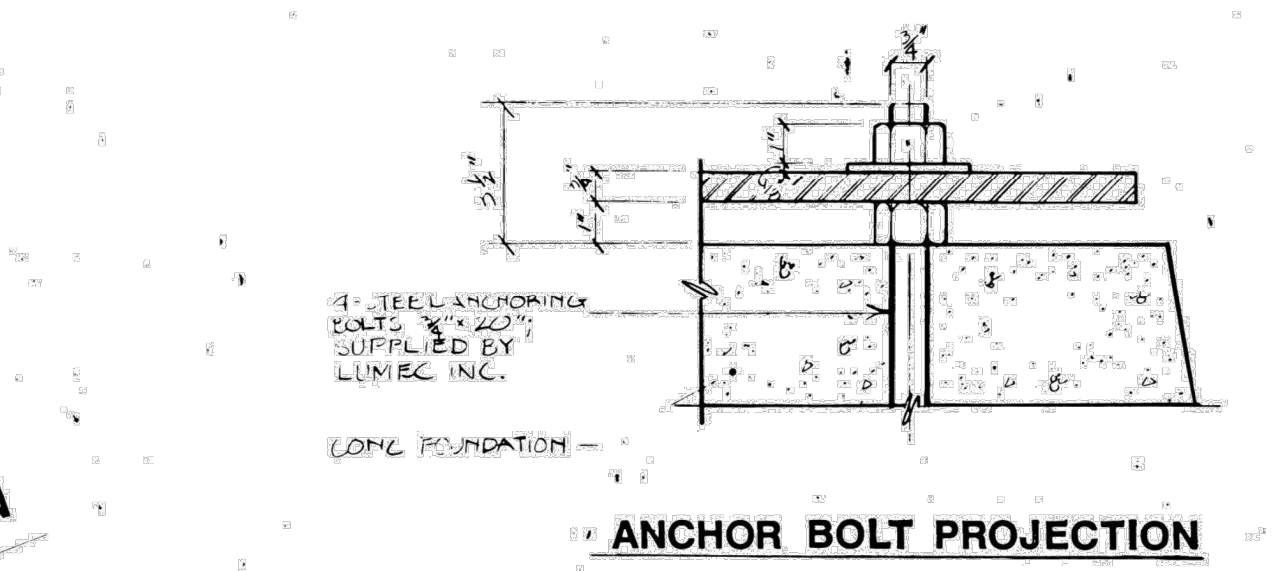
- AFTER BRICK PAVERS HAVE BEEN REMOVED, SALVAGED, AND STORED AND THE EXISTING CONCRETE BASE HAS BEEN REMOVED, THE CONTRACTOR SHALL CUT CONDUIT LEADING INTO THE EXISTING CONCRETE FOUNDATION AS NEAR AS POSSIBLE TO THE FOUNDATION AND REMOVE AND DISPOSE OF THE FOUNDATION.
- THE VOID REMAINING FROM THE FOUNDATION REMOVAL SHALL BE FILLED WITH 21AA IN 6 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% PROCTOR.

Digital Status
Scanned On: 7-26-04
By: DKG
Despeckled: Yes
Vectors: Yes
O.C.R.: Yes

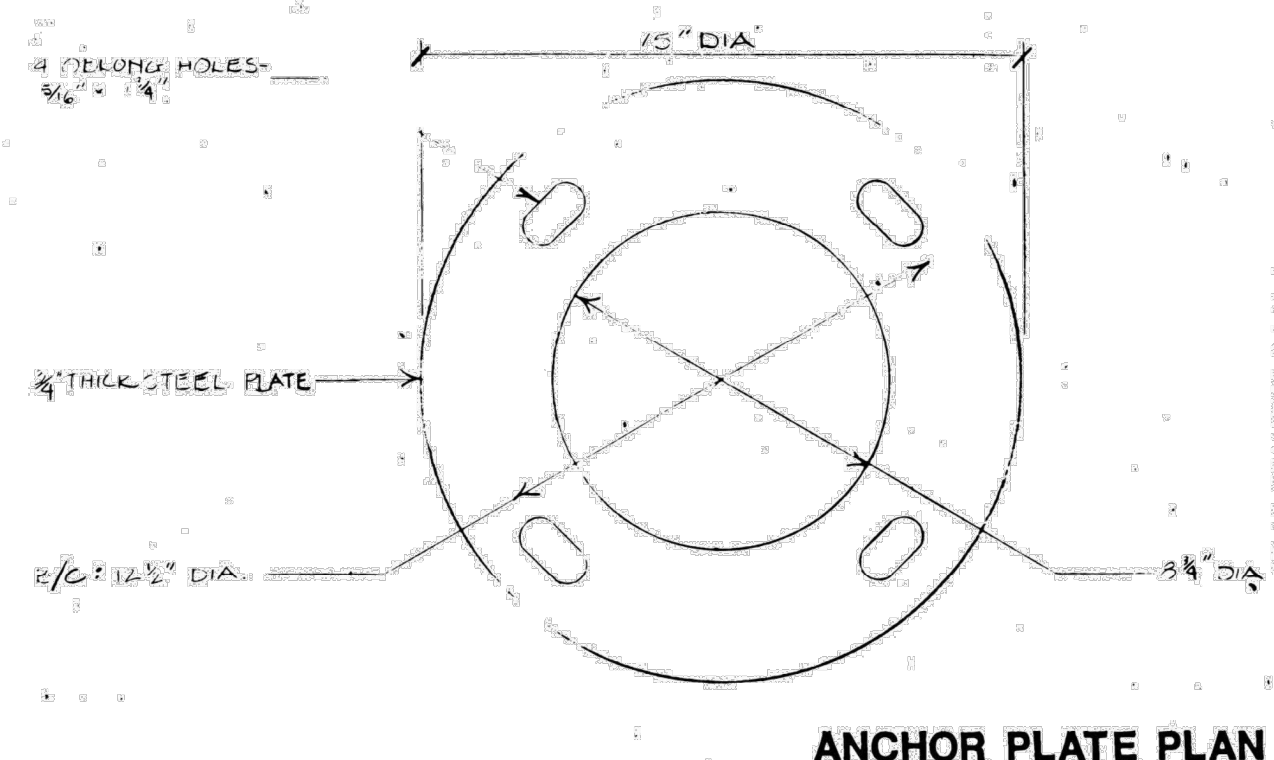


1 FIVE-HEADED FIXTURE MEA 3
SCALE: 1" = 1'-0"
5-HEADED FIXTURE WITH PARKING ATTACHMENT-MEA4

2 SINGLE-HEADED FIXTURE MEA 1
SCALE: 1" = 1'-0"
SINGLE-HEADED FIXTURE WITH PARKING METER ATTACHMENT-MEA 2

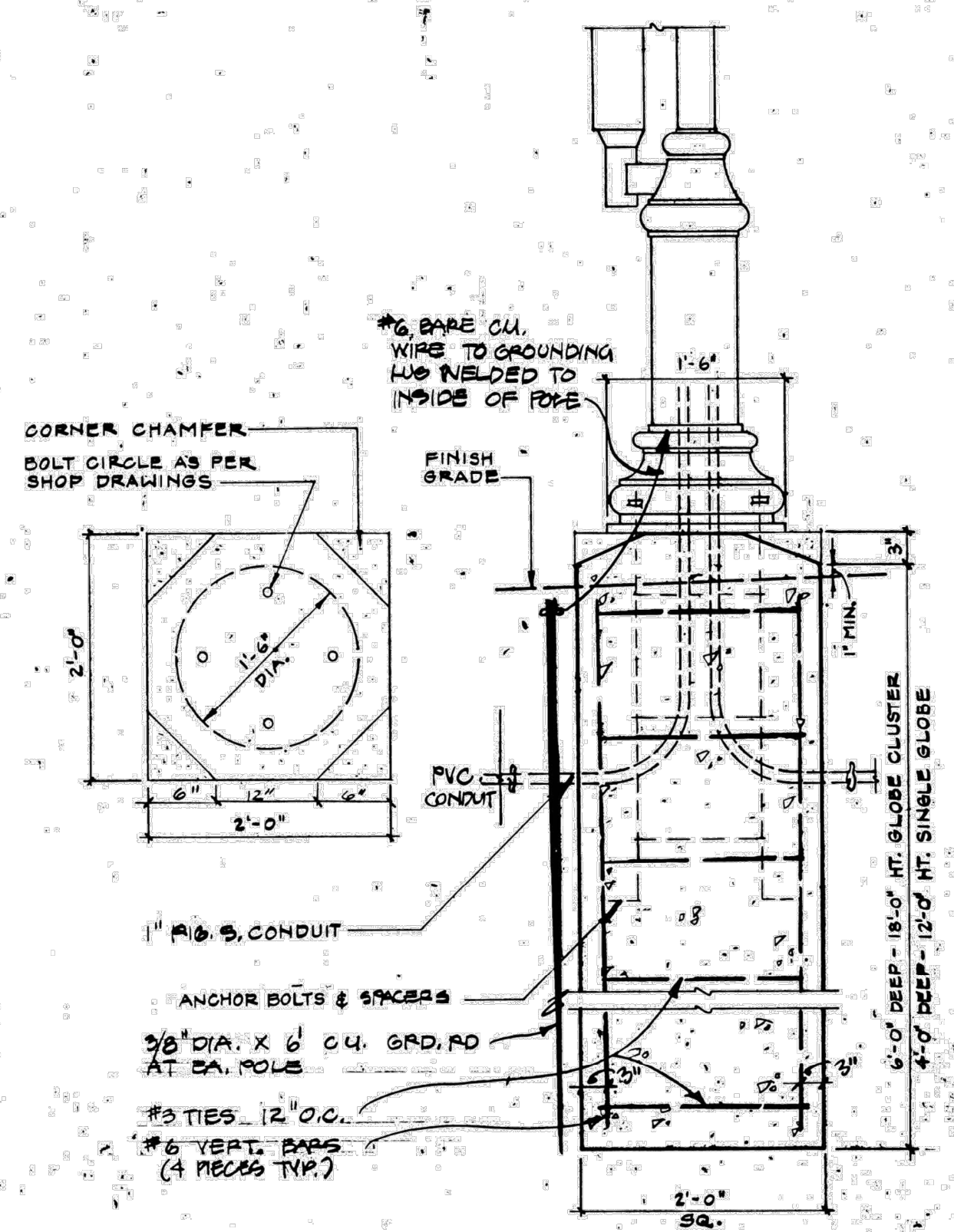


ANCHOR BOLT PROJECTION



ANCHOR PLATE PLAN

3 ANCHOR PLATE/BOLT DETAIL
SCALE: 3" = 1'-0"



4 Light Pole Foundation
SCALE: 1" = 1'-0"

BEST AVAILABLE INFORMATION

JJR
Johnson, Johnson & Roy/Jinc
Planning/Urban Design
Landscape Architecture
Civil Engineering
303 N. Main Street
Ann Arbor, Michigan 48104
313 662 4457

JJR Project Number: 15170
Drawn by: HJ
Project Manager: [Signature]
Technical Review: [Signature]
Design Review: [Signature]
Director: J.A. Ann Arbor

81D 9/1/04
150% 3/20/04
95% REVIEW 3/11/04
75% REVIEW 7/17/04
Issued For: Date

Elizabeth R. Dean
Main Street
Promenade
Lighting
Improvements

Ann Arbor, Michigan

Drawing Title
Lighting Details
Scale: **88074-17**
Sheet Number

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CITY OF ANN ARBOR PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
LIGHTING DETAILS

CITY PLAN: Custom
DRAWING NO.: 2020-038-56
SHEET NO.: 56 OF 80

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DETAIL FOR 1'-4" & 2'-0" TOP SECTIONS
SHAPE MAY VARY FROM DETAIL SHOWN BUT MUST COMPLY WITH ASTM C-478 AND JOINTS SHALL BE COMPATIBLE WITH THE RISER

TYPICAL MANHOLE
OTHER OPTIONS INCLUDE CONCRETE BLOCK, BRICK, OR CAST-IN-PLACE WALL SECTIONS. SEE TYPICAL WALL SECTIONS FOR WALL THICKNESS.

TYPICAL PRECAST REINFORCED BOTTOM SECTION FOR DROP MANHOLE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 1 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

PRECAST SUMP FOR PRECAST RISERS

PRECAST SUMP FOR BRICK OR BLOCK CONSTRUCTION

PRECAST SUMP FOR 2'-0" DIA. STRUCTURES

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 2 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

TYPICAL CONCRETE BLOCK WALL SECTION

TYPICAL CAST-IN-PLACE CONCRETE WALL SECTION

TYPICAL BRICK WALL SECTION

DROP INLET (TYPE 1)

DROP INLET (TYPE 2)

INLET

CATCH BASIN

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 3 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

PRECAST FLAT SLAB TOP FOR PRECAST CONCRETE STRUCTURE, 2' x 4' CASTING

PRECAST FLAT SLAB TOP FOR MASONRY STRUCTURE, 2' x 4' CASTING

PRECAST REINFORCED CONCRETE FLAT SLAB TOP

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 4 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

REDUCER CAP DIMENSIONS

STRUCTURE DIAMETER	CAP DIAMETER "A"	B	CAP DEPTH "D1"	CAP DEPTH "D2"
7'-0"	10 1/2"	8 3/4"	1'-5"	12"
8'-0"	11 1/4"	9"	1'-5"	12"
9'-0"	12 1/4"	10"	1'-5"	12"
10'-0"	14 0"	10"	1'-6"	12"

FLAT SLAB TOP DIMENSIONS

STRUCTURE DIAMETER	COVER DIAMETER "A"	B	COVER DEPTH "D1"	COVER DEPTH "D2"
7'-0"	10 1/2"	8 3/4"	1'-5"	12"
8'-0"	11 1/4"	9"	1'-5"	12"
9'-0"	12 1/4"	10"	1'-5"	12"
10'-0"	14 0"	10"	1'-6"	12"

BASE AND RISER DIMENSIONS

STRUCTURE DIAMETER	BASE DIAMETER "A1"	BASE DIAMETER "A2"	MIN. WALL THICKNESS "T"	BASE DEPTH "D1"	BASE DEPTH "D2"
7'-0"	10 1/2"	10 1/2"	7"	8"	12"
8'-0"	11 1/4"	11 1/4"	8"	8"	12"
9'-0"	12 1/4"	12 1/4"	9"	8"	12"
10'-0"	14 0"	14 0"	10"	8"	12"

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 5 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

PRECAST MANHOLE

PRECAST INLET

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 6 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

PRECAST CATCH BASIN

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020	9-19-2019	R-1-G	SHEET 7 OF 9
F.S.R.E.L. APPROVAL	PLAN DATE		

PRECAST CATCH BASIN

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

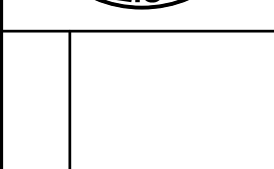
5-18-2020	9-19-2019	R-1-G	SHEET 8 OF 9
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S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT
MDOT DETAILS 1

PRECAST RISER RING
(FOR 2'-0" DIAMETER STRUCTURE)

NOTES:
THE DRAINAGE STRUCTURE COVERS ALLOWED FOR USE ON THESE DRAINAGE STRUCTURES ARE SPECIFIED IN SUBSEQUENT STANDARD PLANS AND ARE INTERCHANGEABLE ON ANY STRUCTURE.
THE TOPS OF MASONRY STRUCTURES SHALL BE SUFFICIENTLY LOW TO PERMIT PROPER ADJUSTMENT OF COVER TO GRADE USING MORTAR OR BRICK AS DIRECTED BY THE ENGINEER.
PRECAST JOINTS ARE REQUIRED ON ALL SANITARY MANHOLES. SEE ASTM DESIGNATION C-923.
GRAVELLY MATERIAL CLASS III SHALL BE USED IN BACKFILLING AROUND ALL STRUCTURES THAT FALL WITHIN THE 1:1 INFLUENCE LINES FROM THE EDGE OF PAVEMENT OR BACK OF CURB.
STEPS FOR DRAINAGE STRUCTURES SHALL BE OF AN APPROVED DESIGN AND MADE FROM CAST IRON, ALUMINUM OR PLASTIC COATED STEEL. RINGS SHALL BE A MINIMUM OF 10" IN CLEAR LENGTH, DESIGNED TO PREVENT THE FOOT FROM SLIPPING OFF THE END. THE MINIMUM HORIZONTAL PULL OUT LOAD SHALL BE 400 LBS. THE MINIMUM VERTICAL LOAD SHALL BE 800 LBS.
THE BELL SHALL BE REMOVED FOR THE FIRST LENGTH OF OUTLET PIPE PROJECTING THROUGH THE WALL OF THE MANHOLE.
PRECAST CONCRETE SECTIONS, CURB, BASE SECTIONS, AND FLAT TOP SLAB SHALL BE BUILT ACCORDING TO CURRENT ASTM C-418 AND ACCORDING TO DETAILS SPECIFIED ON THIS PLAN. PRECAST REINFORCED CONCRETE FLAT TOP SLAB SHALL BE MARKED TO SHOW LOCATION OF REINFORCEMENT. THE WALLS OF THE PRECAST UNITS MAY HAVE A SLIGHT TAPER TO ALLOW FOR FORM REMOVAL. PRECAST CONCRETE 2'-0" DIAMETER DRAINAGE STRUCTURES SHALL HAVE A MINIMUM 3" WALL THICKNESS WITH A 5' MINIMUM BEARING SURFACE ON TOP. PRECAST RISER RING FOR 2'-0" DIAMETER STRUCTURES.
THE MAXIMUM INSIDE DIAMETER OF PIPES ENTERING OR LEAVING PRECAST DRAINAGE STRUCTURES SHALL BE 2'-0" LESS THAN THE INSIDE DIAMETER OF THE DRAINAGE STRUCTURE. A PIPE LEAVING A 2'-0" DIAMETER DRAINAGE STRUCTURE IS ALLOWED TO HAVE 1'-0" INSIDE DIAMETER OR LESS.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
DRAINAGE STRUCTURES

5-18-2020 9-18-2018
F.B.K.L. APPROVAL PLAN DATE
R-1-G SHEET 9 OF 9

COVER Q
FOR USE ON MANHOLES OR SANITARY SEWERS WHERE VENT HOLES ARE NOT DESIRED

NOTES:
DRILL AND TAP FOR 1/2" - 13 BOLTS - 13 BOLTS ON DRILL DIMPLES PROVIDED, TYP. OR PROVIDE REPLACEMENT THREAD.
FOUR 1/2" DIAMETER HOLES ON 30 1/2" DIAMETER BOLT CIRCLE.
25 1/2" DIA.
36" DIAMETER
25 1/2" DIA.
24 1/2" INSIDE DIAMETER OF GROOVE
26 1/2"
24"
28 1/2"
36" DIAMETER
FRAME SECTION

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
COVER Q
FOR USE ON MANHOLES OR SANITARY SEWERS WHERE VENT HOLES ARE NOT DESIRED

9-30-2014 3-12-2014
F.B.K.L. APPROVAL PLAN DATE
R-18-F SHEET 1 OF 2

COVER Q
FOR USE ON MANHOLES OR SANITARY SEWERS WHERE VENT HOLES ARE NOT DESIRED

NOTES:
THE CASTINGS SHALL MEET THE REQUIREMENTS OF THE CURRENT STANDARD SPECIFICATION FOR GRAY IRON CASTINGS.
ALL CASTINGS SHALL BE CLEANED BY CURRENT APPROVED BLASTING METHODS.
THE SEATING FACE OF THE LID AND THE SEAT FOR THE SAME ON THE FRAME SHALL BE GRIND OR MACHINED SO THAT THE LID WILL HAVE AN EVEN BEARING ON ITS SEAT TO PREVENT POOLING OR TILTING.
THE CASTINGS SHALL BE FREE OF POURING FAULTS, BLOW HOLES, CRACKS AND OTHER IMPERFECTIONS. THEY SHALL BE SOUND, TRUE TO FORM AND THICKNESS, CLEAN AND NEATLY FINISHED, AND SHALL BE COATED WITH COAL TAR PITCH VARNISH.
THIS COVER IS DESIGNED TO FIT ON ANY MANHOLE OR ON ANY EXISTING SIMILAR STRUCTURE WHEN SO DESIGNATED ON THE PLANS.
A NON-LOCKING COVER MAY BE USED WHEN APPROVED BY THE ENGINEER.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR
COVER Q
FOR USE ON MANHOLES OR SANITARY SEWERS WHERE VENT HOLES ARE NOT DESIRED

9-30-2014 3-12-2014
F.B.K.L. APPROVAL PLAN DATE
R-18-F SHEET 2 OF 2

CURB RAMP AND DETECTABLE WARNING DETAILS

NOTES:
MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.
MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
CURB RAMP AND DETECTABLE WARNING DETAILS

5-13-2020 5-8-2020
F.B.K.L. APPROVAL PLAN DATE
R-28-J SHEET 1 OF 1

CURB RAMP TYPE RF
(ROLLED / FLARED SIDES)

NOTES:
MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.
MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
CURB RAMP AND DETECTABLE WARNING DETAILS

4-7-2022 5-8-2020
F.B.K.L. APPROVAL PLAN DATE
R-28-J SHEET 2 OF 1

CURB RAMP TYPE C
(COMBINATION RAMP)

NOTES:
MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.
MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
CURB RAMP AND DETECTABLE WARNING DETAILS

4-7-2022 5-8-2020
F.B.K.L. APPROVAL PLAN DATE
R-28-J SHEET 3 OF 1

CURB RAMP TYPE D
(DEPRESSED CORNER)

USE ONLY WHEN INDEPENDENT DIRECTIONAL RAMPS CAN NOT BE CONSTRUCTED FOR EACH CROSSING DIRECTION

NOTES:
MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.
MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
CURB RAMP AND DETECTABLE WARNING DETAILS

4-7-2022 5-8-2020
F.B.K.L. APPROVAL PLAN DATE
R-28-J SHEET 4 OF 1

DETECTABLE WARNING AT RAILROAD CROSSING

NOTES:
THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE RAIL CROSSING IS 6' MINIMUM AND 15' MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL. DO NOT PLACE DETECTABLE WARNING ON RAILROAD CROSSING MATERIAL.

DETECTABLE WARNING AT FLUSH SHOULDER OR ROADWAY

NOTES:
NEAREST EDGE WITHIN 2' OF SHOULDER.

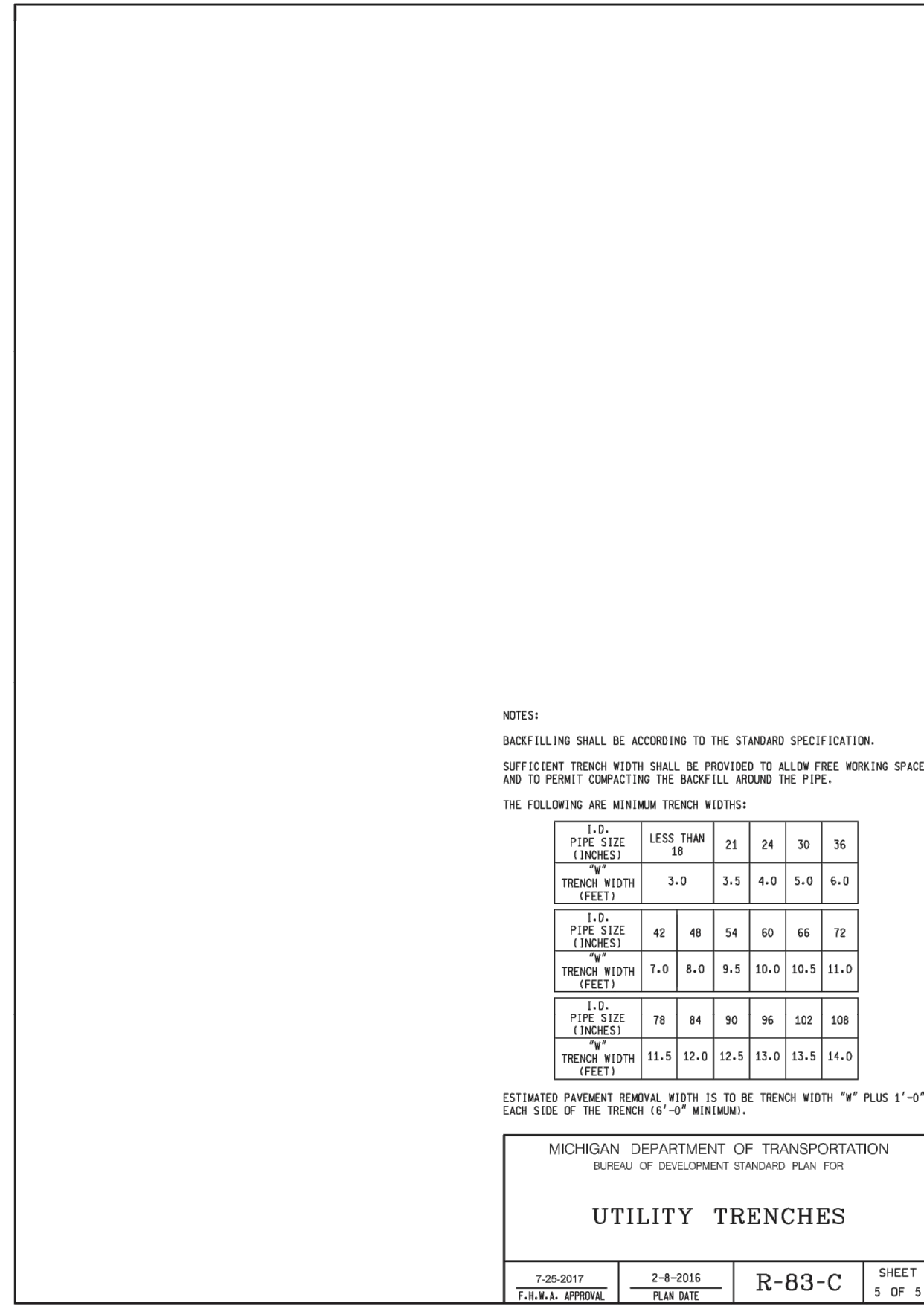
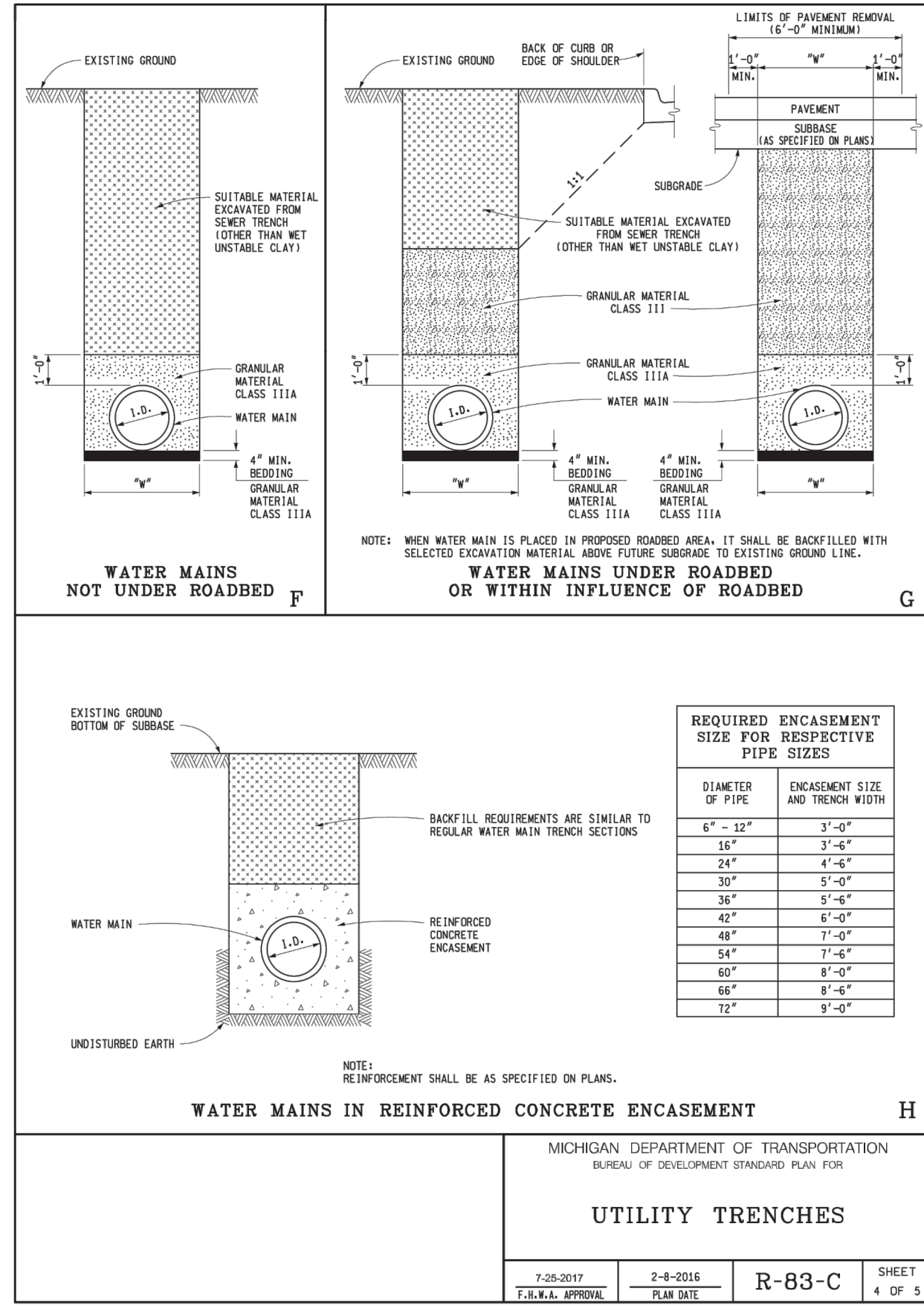
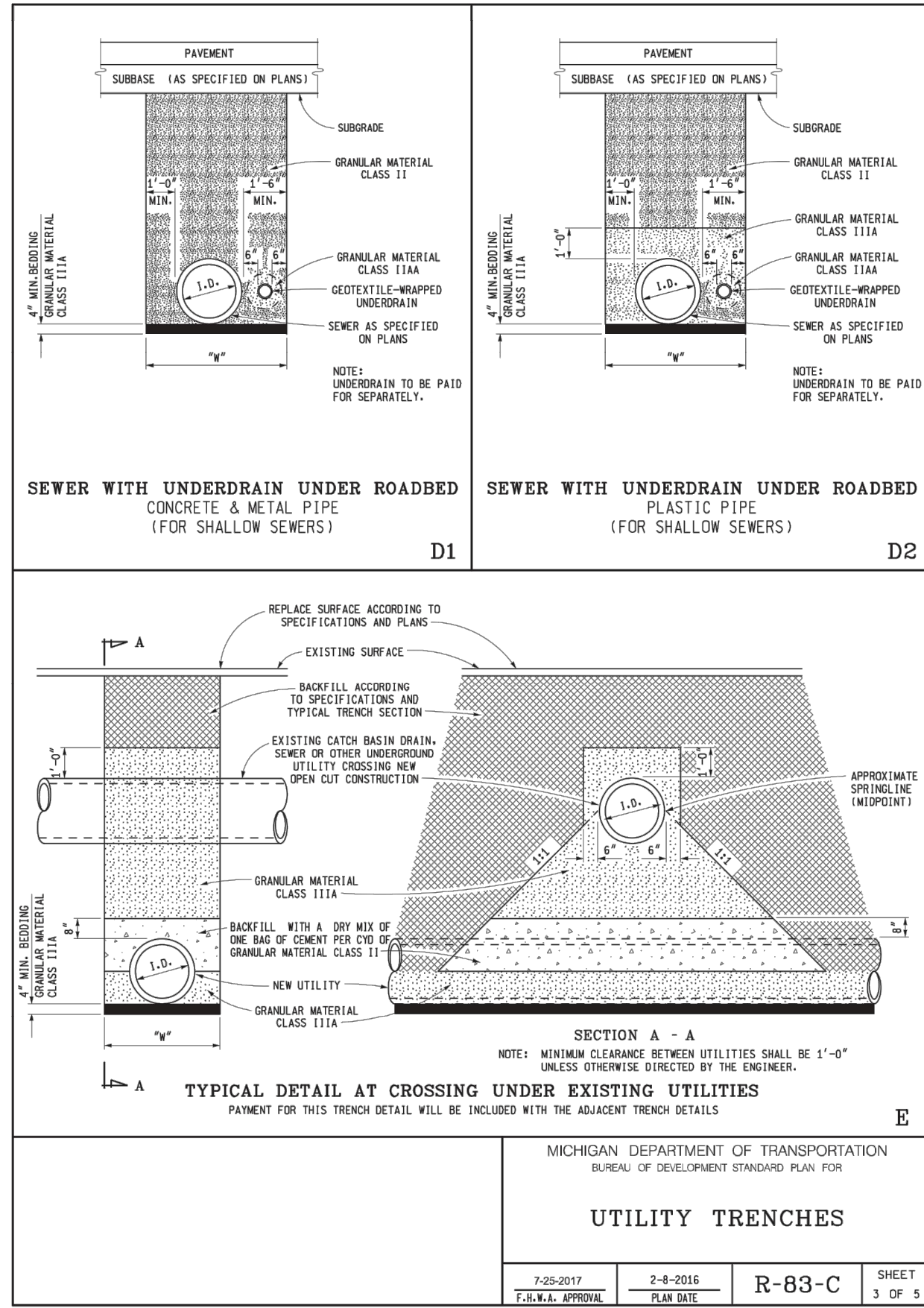
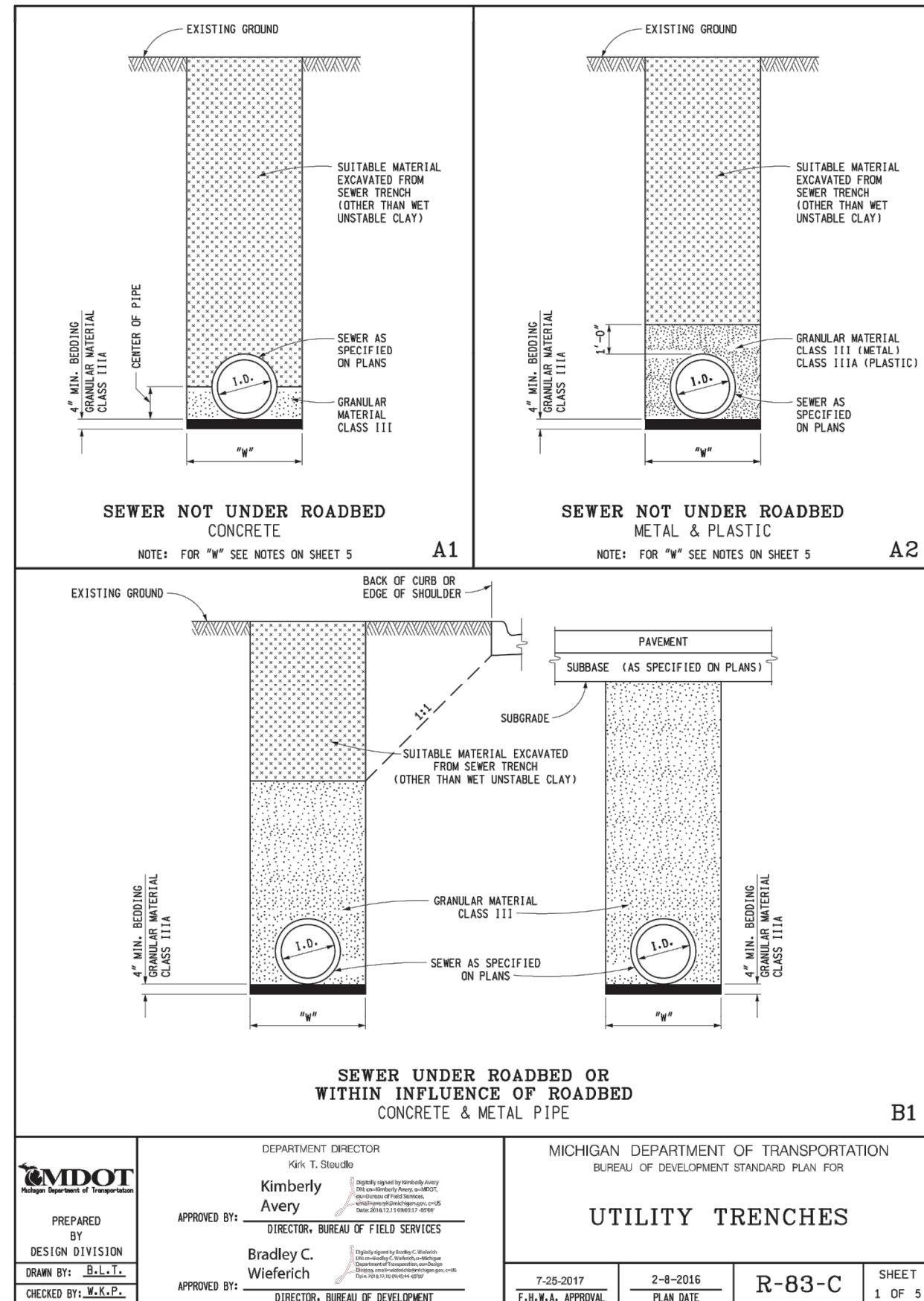
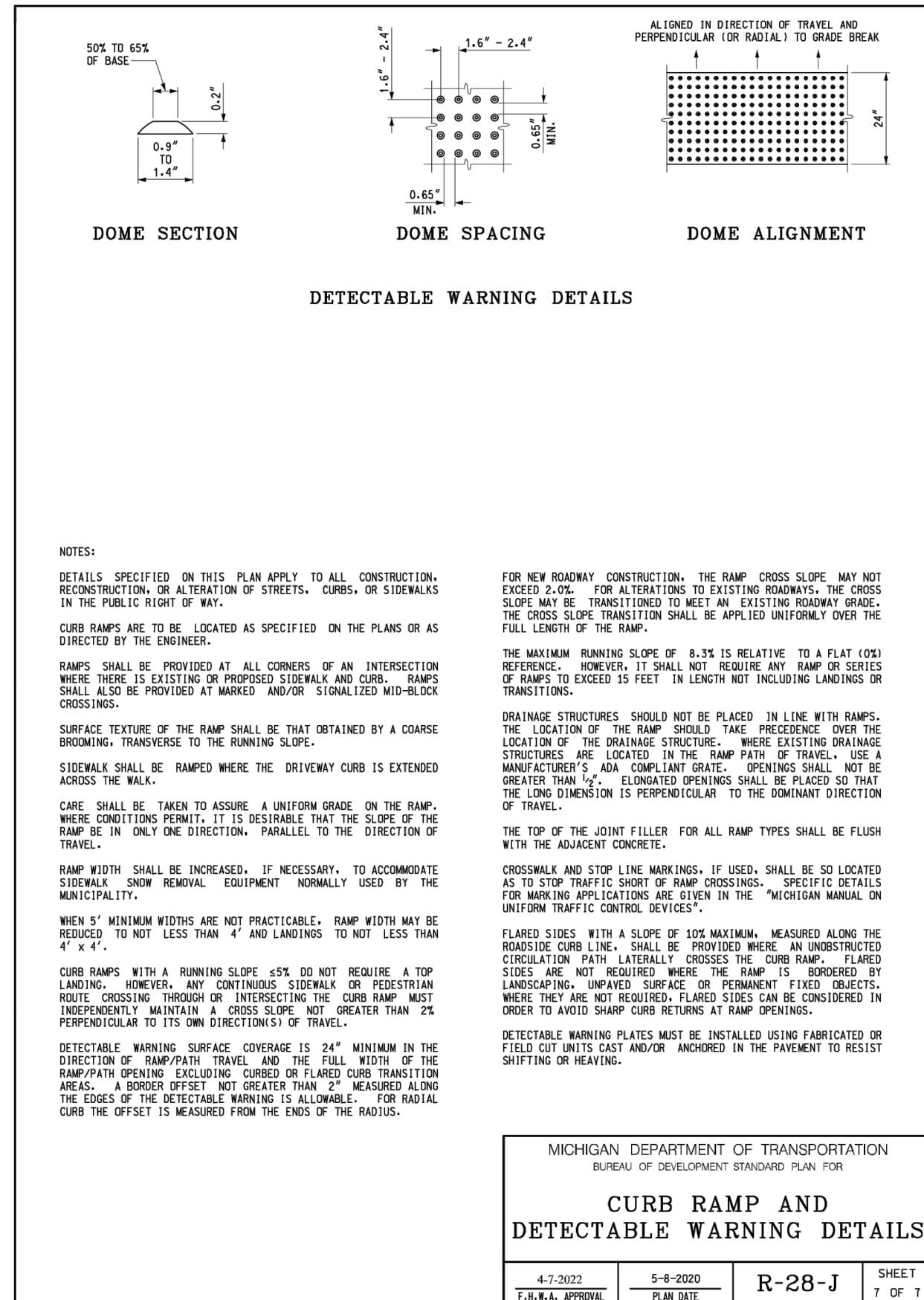
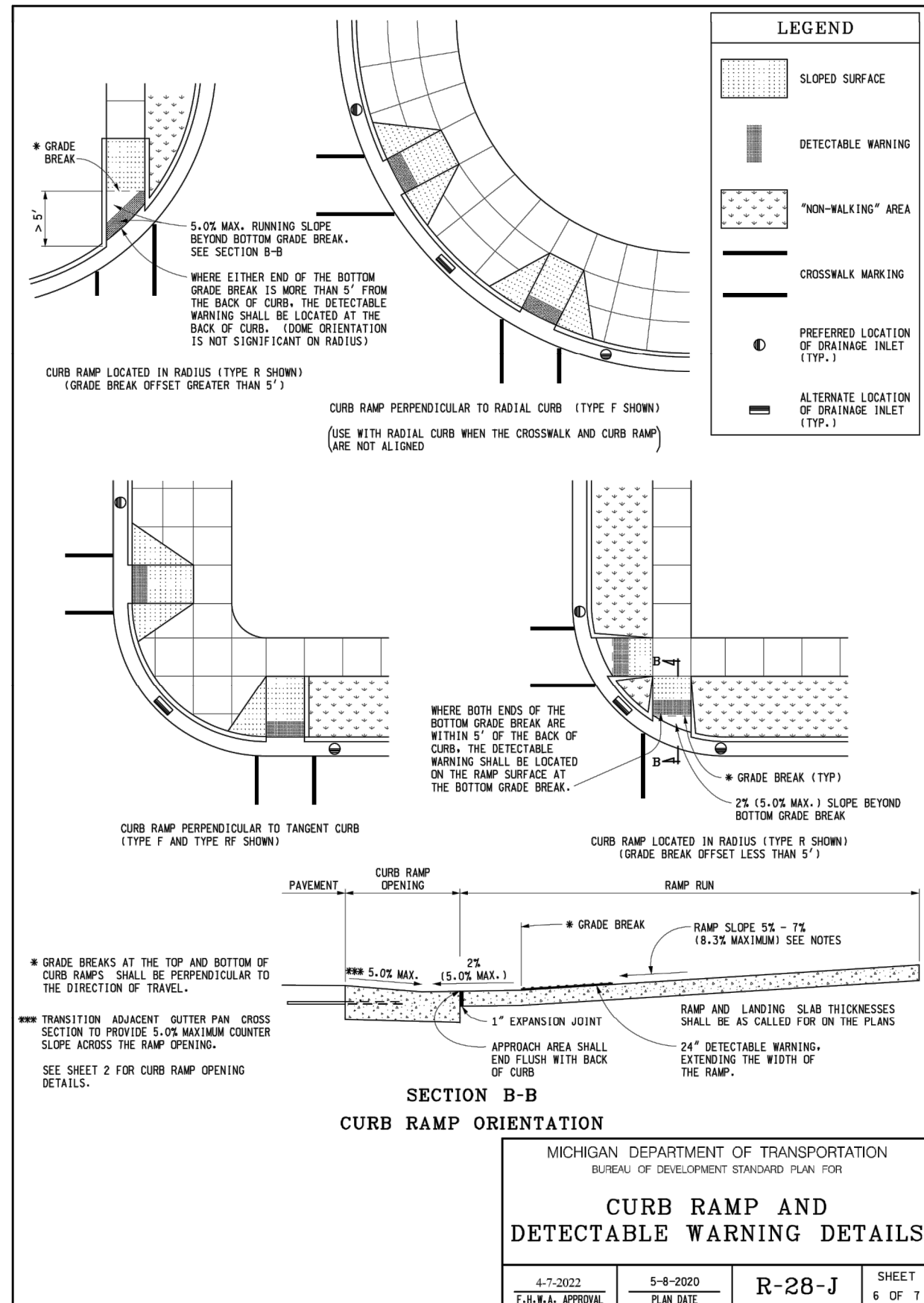
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR
CURB RAMP AND DETECTABLE WARNING DETAILS

4-7-2022 5-8-2020
F.B.K.L. APPROVAL PLAN DATE
R-28-J SHEET 5 OF 1



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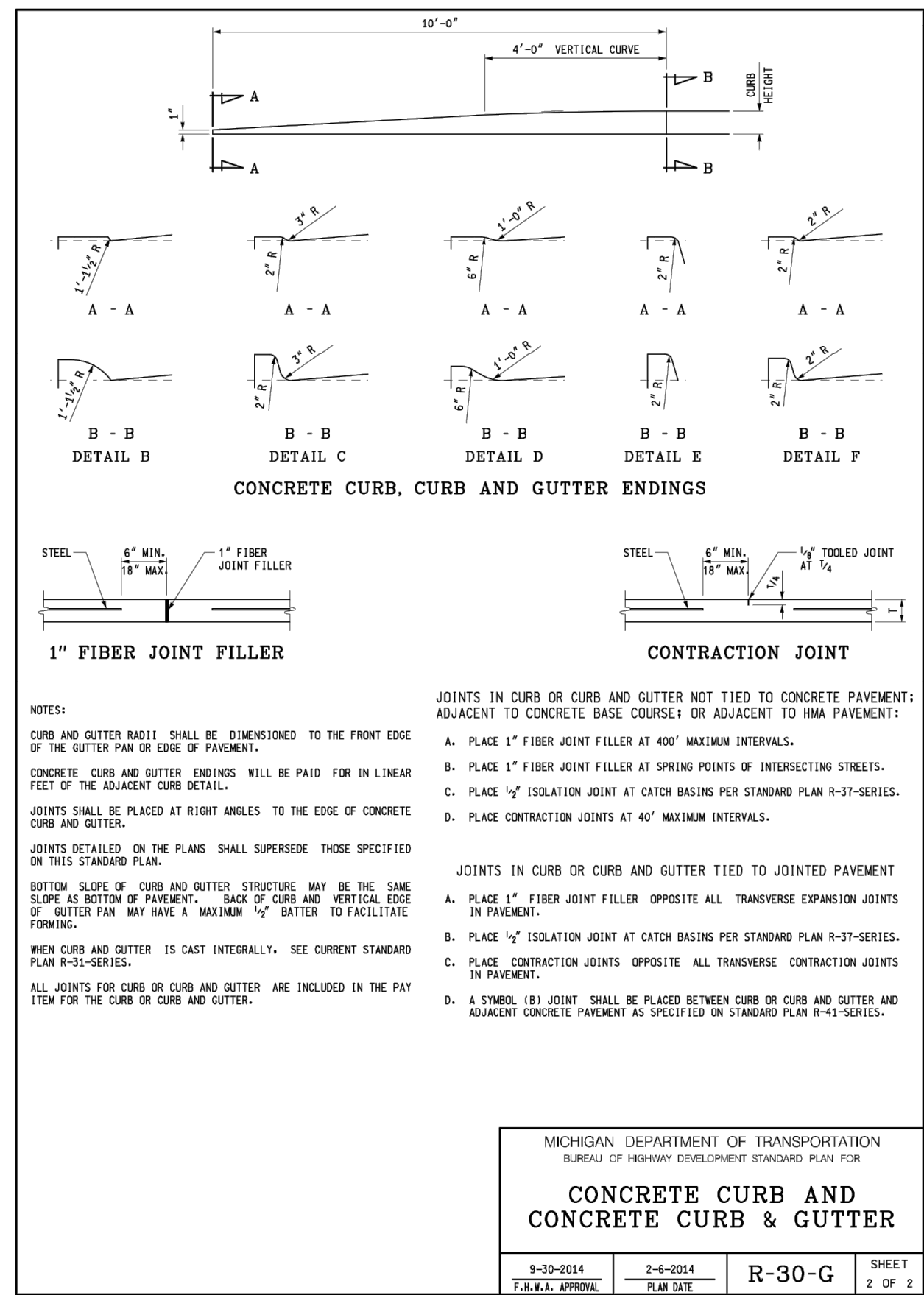
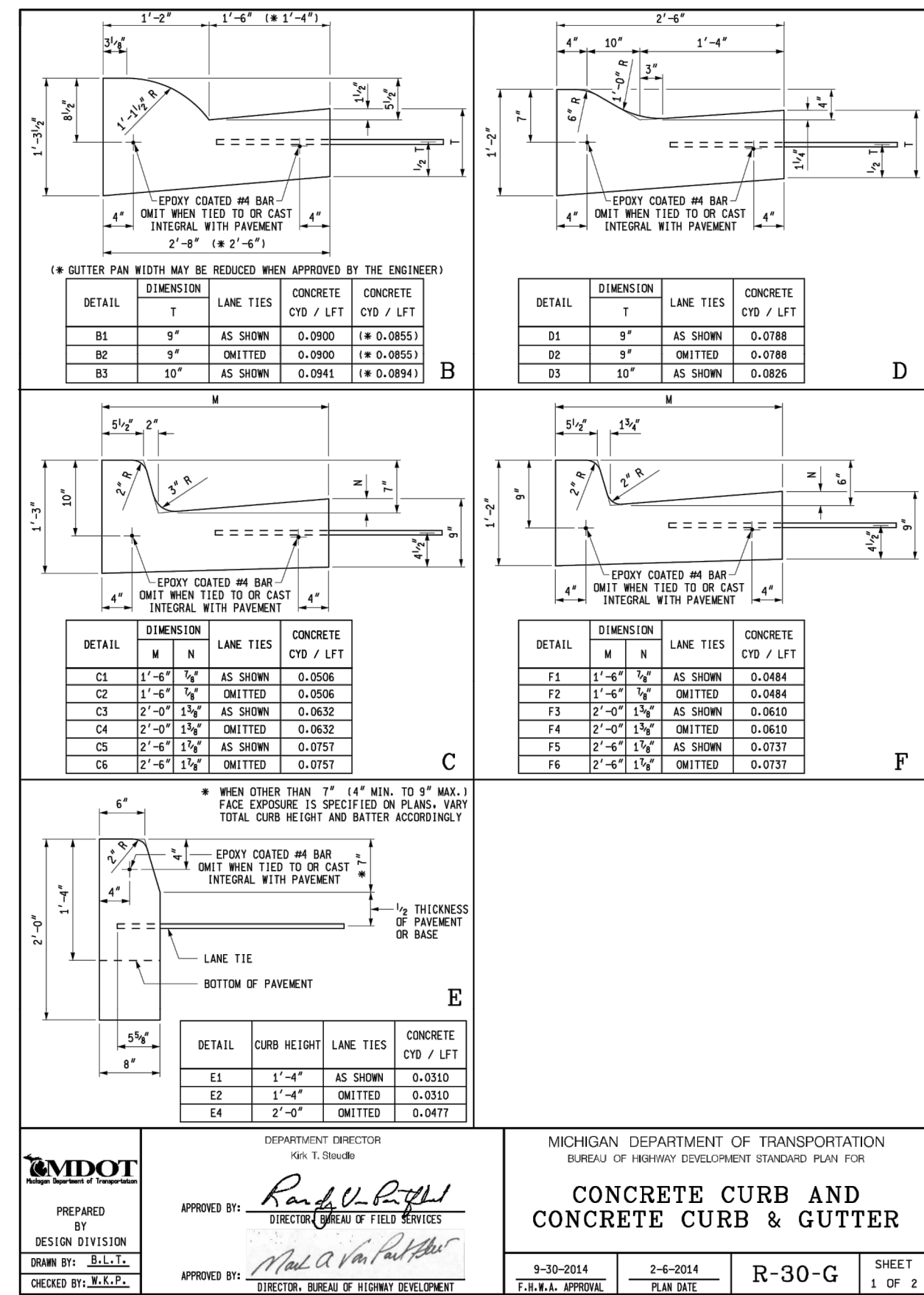
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

MDOT DETAILS 3

SCALE PLAN: #####

DRAWING NO. 2020-038-59

SHEET NO. 59 OF 80



DEPARTMENT DIRECTOR
K.A. T. Shuck

APPROVED BY: *Randy U. Roth*
DIRECTOR, BUREAU OF TRAFFIC SERVICES

PREPARED BY: *M.L.P.*
DESIGN DIVISION

DRAWN BY: *M.L.P.*
CHECKED BY: *M.L.P.*

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

**CONCRETE CURB AND
CONCRETE CURB & GUTTER**

9-30-2014
F.J.K.K.L. APPROVE

2-6-2014
PLAN DATE

R-30-G

SHEET
1 OF 2

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

**CONCRETE CURB AND
CONCRETE CURB & GUTTER**

9-30-2014
F.J.K.K.L. APPROVE

2-6-2014
PLAN DATE

R-30-G

SHEET
2 OF 2



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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PUBLIC SERVICES
301 EAST HURON STREET
PO BOX 864
ANN ARBOR MI 48107-0864
www.a3gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT

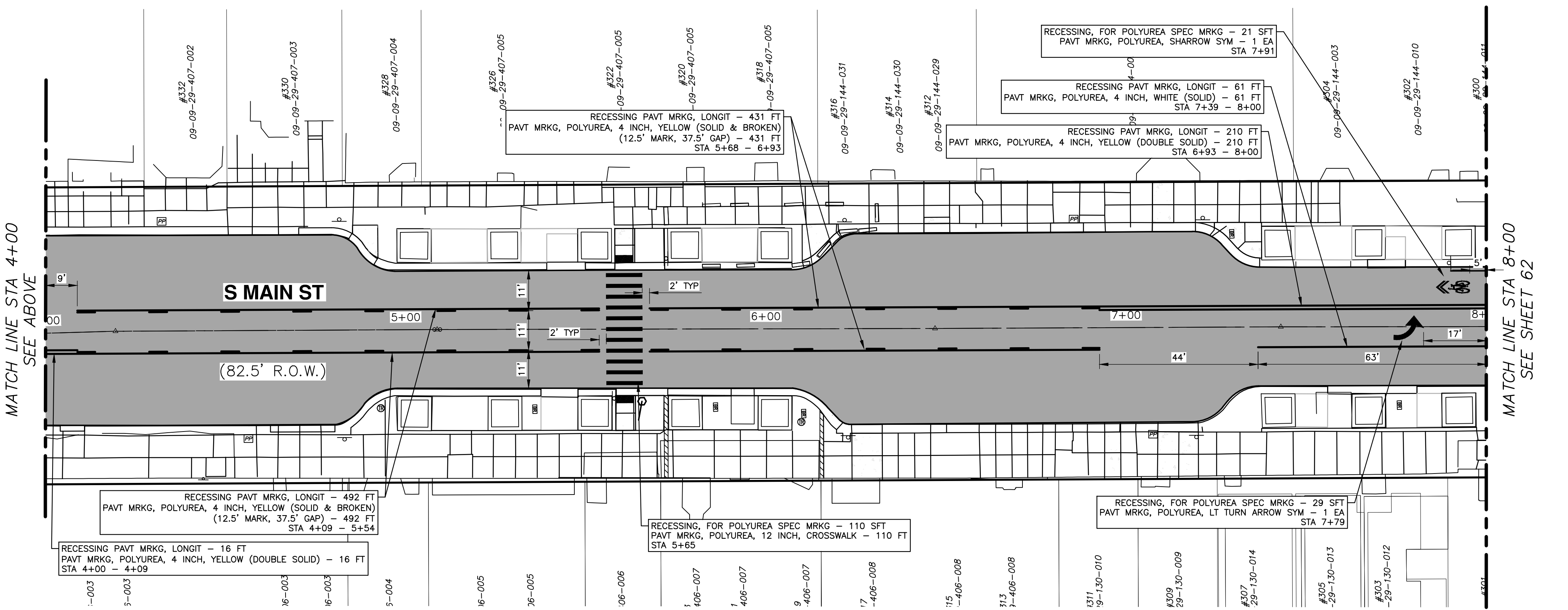
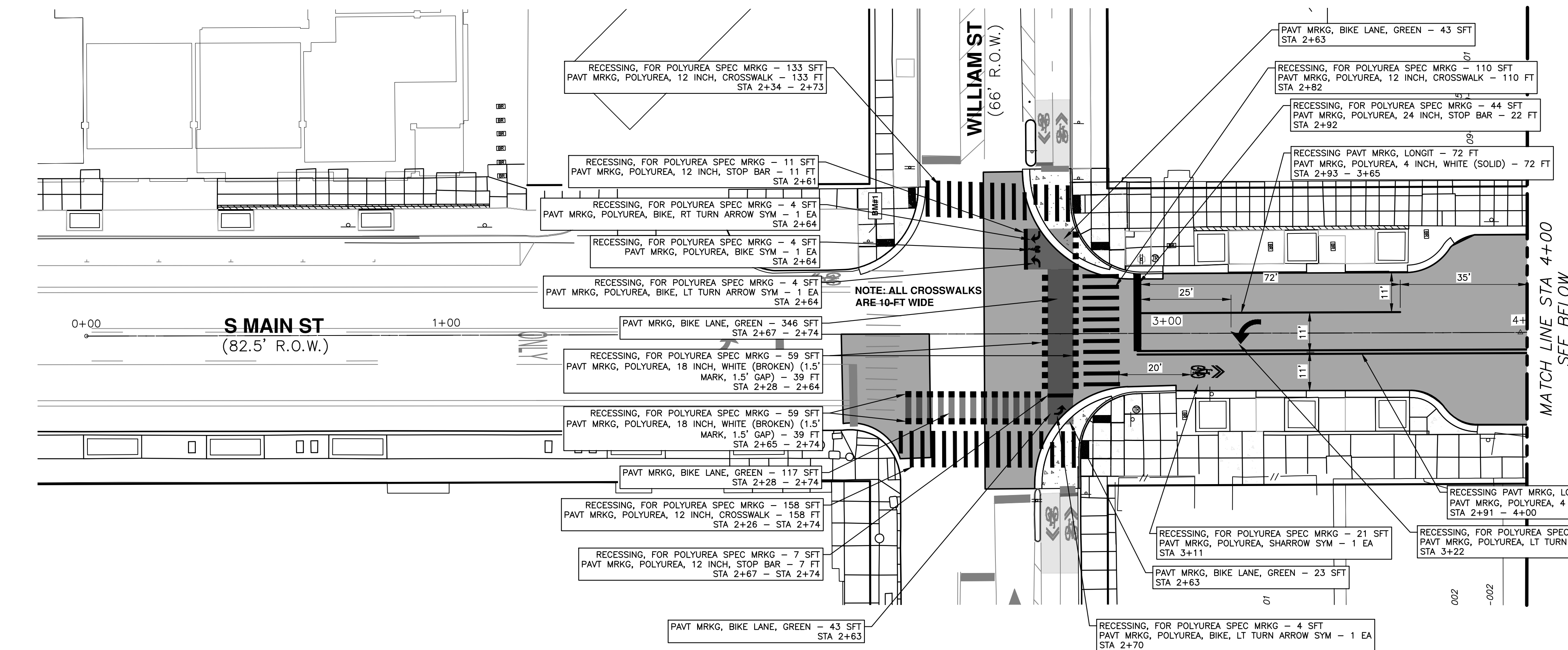
MDOT DETAILS 4

SCALE PLAN: #####

DRAWING No. 2020-038-60

SHEET No. 60 OF 80

C:\pw_work2\1092459\CRD-PLTS-S Main Pavement Marking.dwg Dwg Created: 20-Nov-22 - _a2_standard.bw.stb - Plot Date: 21-Nov-22



MATCH LINE STA 4+00
SEE ABOVE

MATCH LINE STA 8+00
SEE SHEET 62

811
Know what's below. Call before you dig.

REV.	DATE	DRAWN	CHECKED

DESCRIPTION

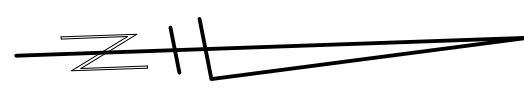
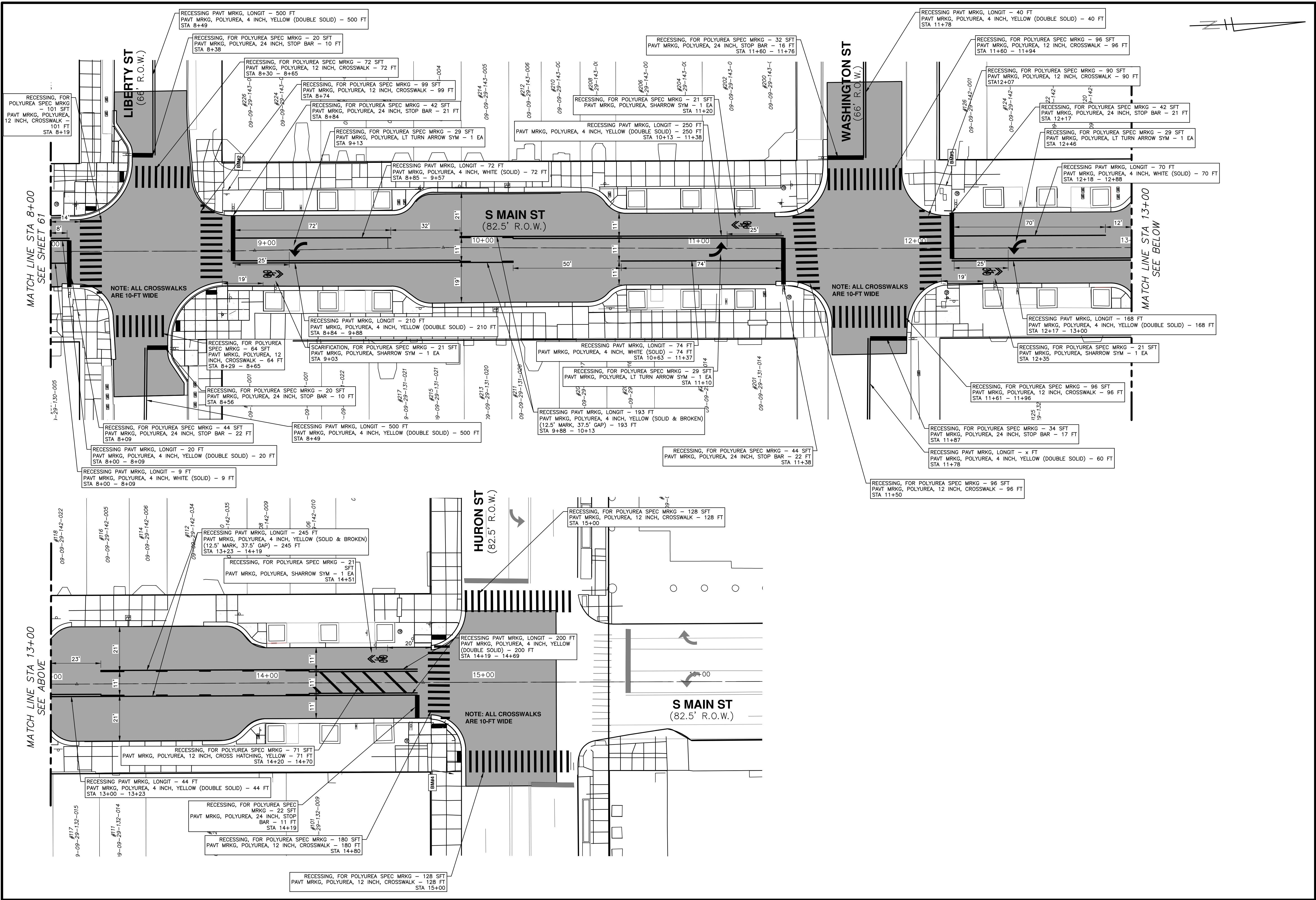
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CITY OF ANN ARBOR MICHIGAN

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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
PAVEMENT MARKING PLAN STA 0+00 TO STA 8+00

SCALE PLAN: 1"=50'
DRAWING No. 2020-038-61
SHEET No. 61 OF 80



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

PAVEMENT MARKING PLAN STA 8+00 TO P.O.E.

SCALE PLAN: 1"=50'

DRAWING No. 2020-038-62

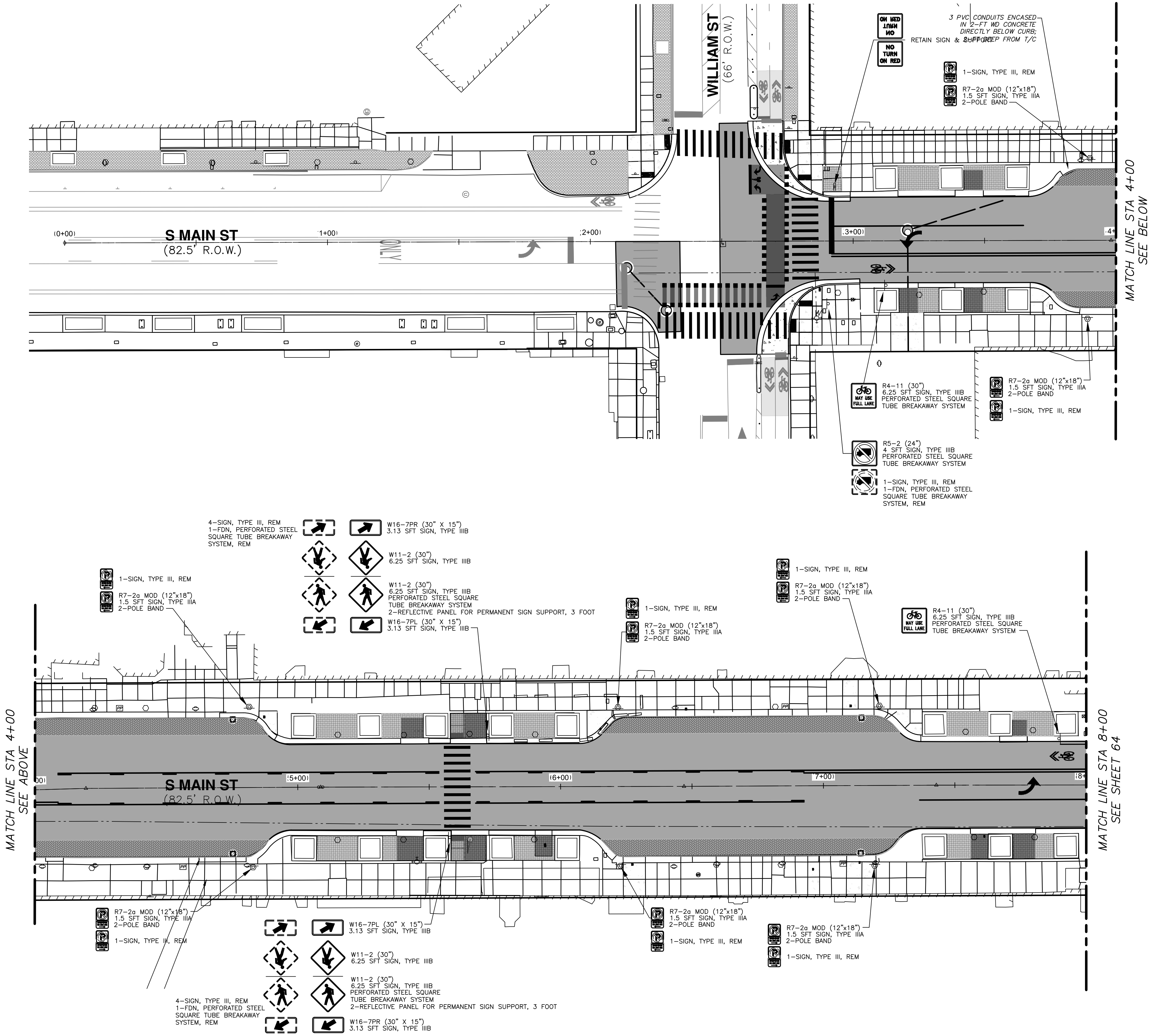
SHEET No. 62 OF 80

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MATCH LINE STA 4+00
SEE ABOVE

MATCH LINE STA 8+00
SEE SHEET 64



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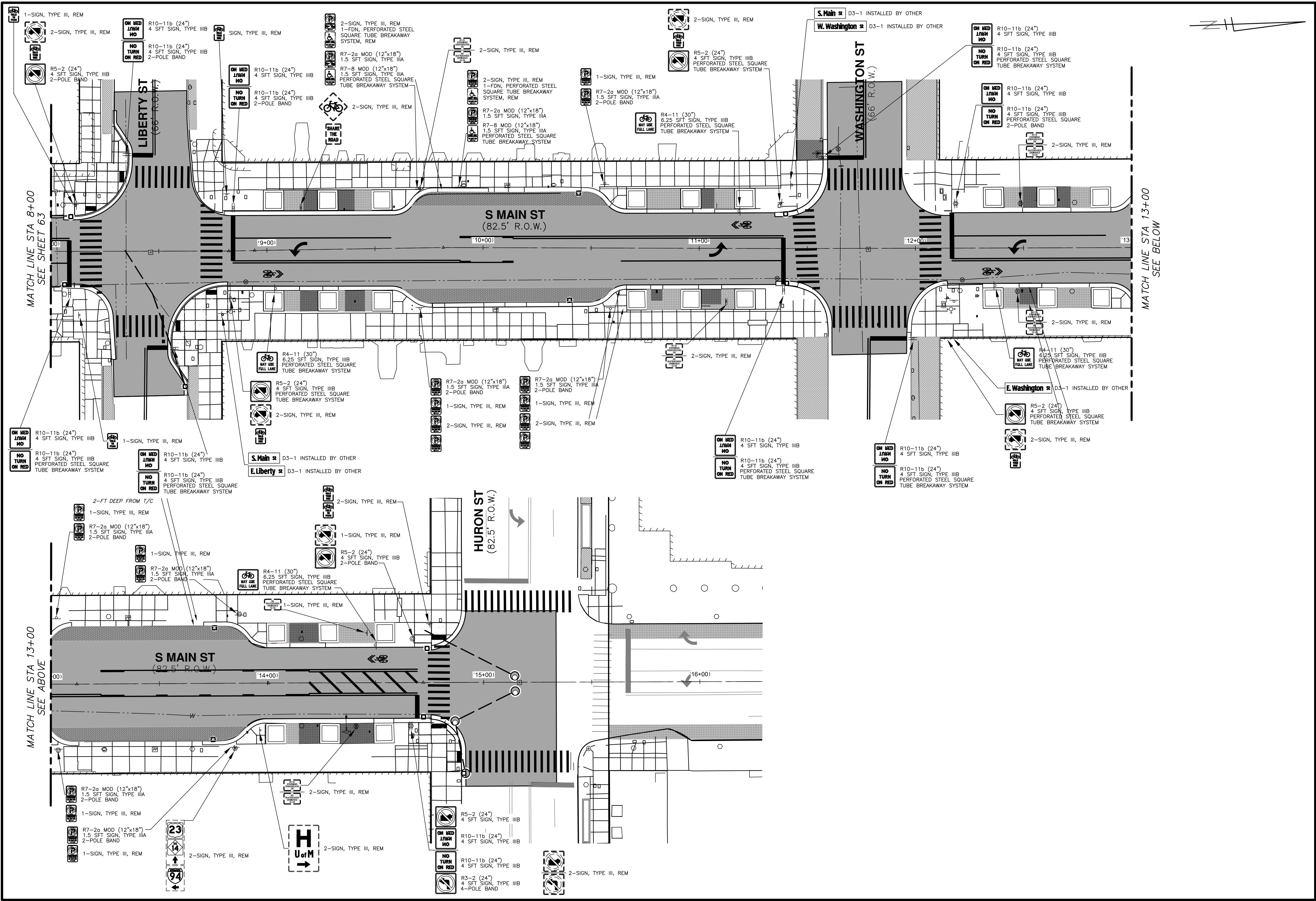


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
SIGNAGE PLAN STA 0+00 TO STA 8+00

SCALE PLAN: #####
PROFILE: 1" = 4'
DRAWING No. 2020-038-63

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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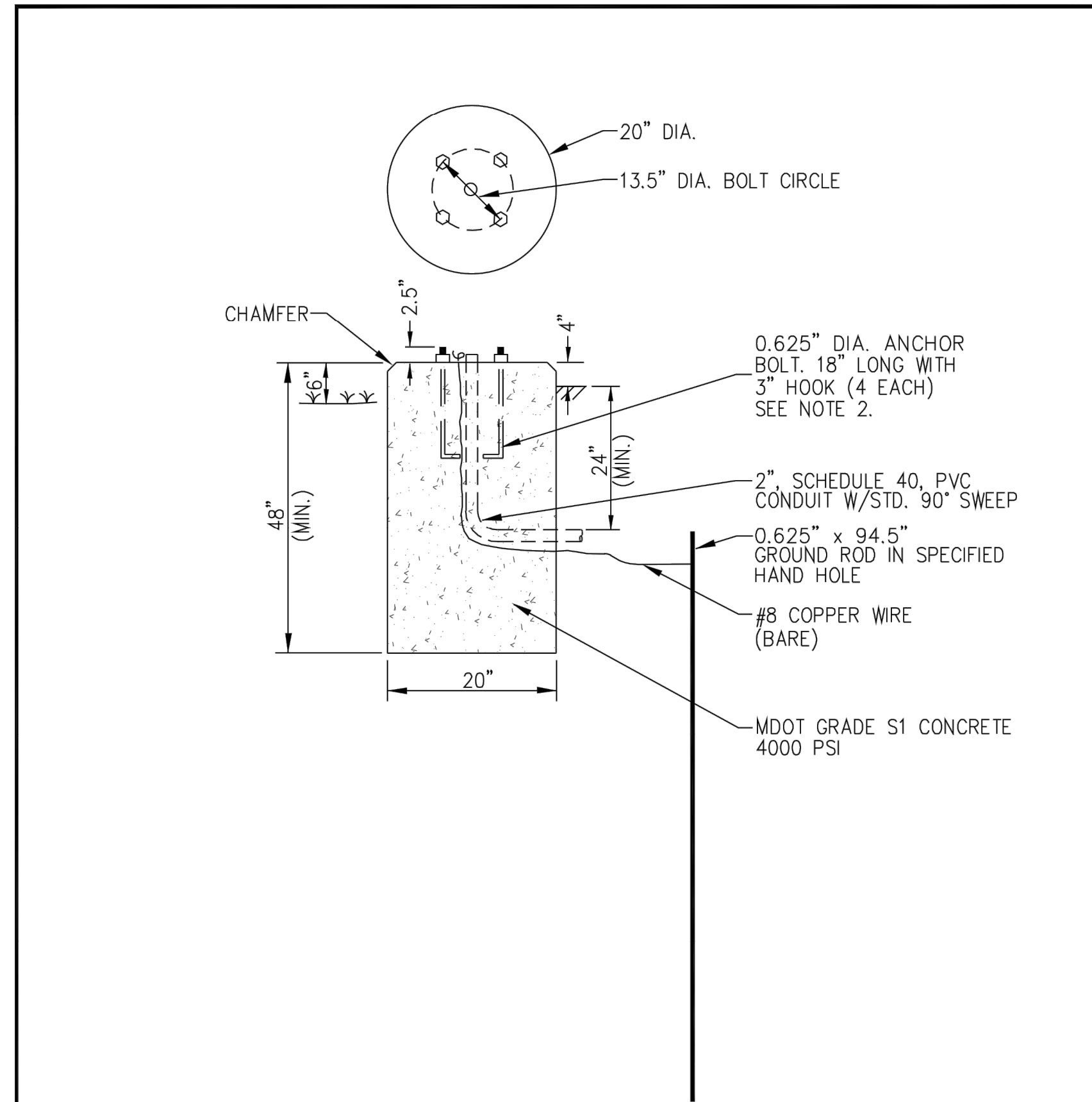
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

SIGNAGE PLAN STA 8+00 TO P.O.E.

SCALE PLAN: #####
PROFILE: 1" = 4'
DRAWING NO.: 2020-038-64
SHEET NO.: 64 OF 80

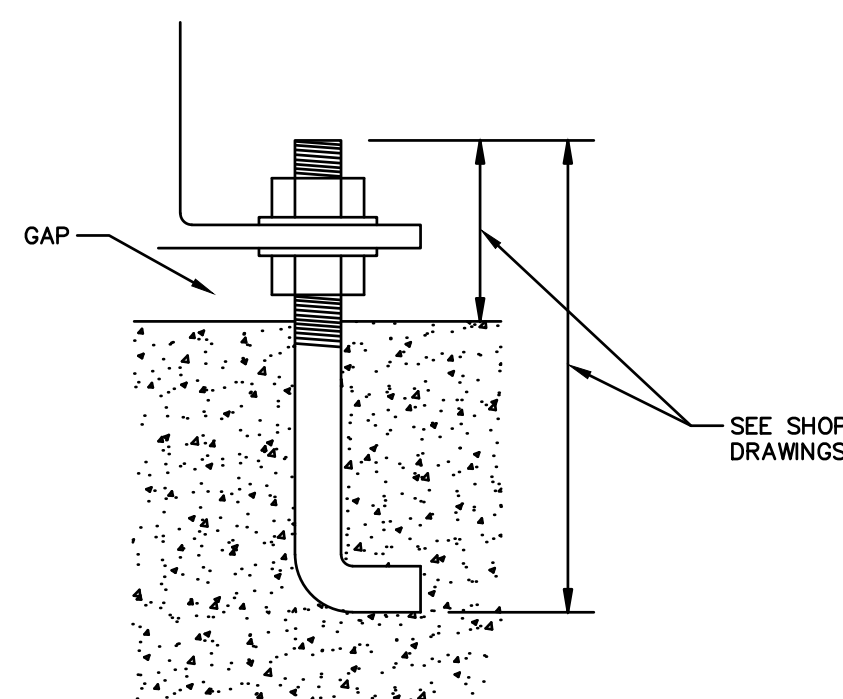
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NOTES:

1. THE CITY WILL INSPECT THE AUGERED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE
2. CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE POLE BASE.

ADDED CLARIFYING DETAILS		3	DPF	MGN	11/06
UPDATED PER MDOT STANDARDS		2	DPF	MGN	10/05
REVISIONS		1	PJM	HP	10/02
REV. NO.	DR. BY	CH. BY	HP	DATE	
PUBLIC SERVICES DEPARTMENT CITY OF ANN ARBOR					
PEDESTRIAN SIGNAL POLE FOUNDATION DETAIL					
DR. BY	DPF	CH. BY	HP	DRAWING NO.	
SCALE	N.T.S.	DATE	3-31-00	SD-SL-3	
SHEET NO. _____				OF _____	



ANCHOR BOLT PROJECTION DETAIL

TRAFFIC SIGNAL EQUIPMENT SYMBOLS

- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY)
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (TWO WAY: BACK TO BACK)
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (THREE WAY)
- 12" L.E.D. VEHICLE TRAFFIC SIGNAL (FOUR WAY)
- 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (ONE WAY)
- 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (TWO WAY: AT ANGLE TO EACH OTHER)
- PEDESTRIAN PUSHBUTTON
- 30 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- 36 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- ALUMINUM PEDESTRIAN PEDESTAL
- LED RECTANGULAR RAPID FLASHING BEACON
- ANCHOR BASE STEEL STRAIN POLE (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- MAST ARM STANDARD AND FOUNDATION (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- BASE MOUNTED TRAFFIC CONTROLLER
- POLE MOUNTED TRAFFIC CONTROLLER
- CASE SIGN (1 WAY OR 2 WAY)
- CASE SIGN (3 WAY OR 4 WAY)
- COILED UP WIRE (FOR CONNECTION BY OTHERS)
- STAINLESS STEEL SERVICE DISCONNECT
- METERED ELECTRIC SERVICE
- ELECTRIC GROUND
- SIGNAL HEAD
- ILLUMINATED CASE SIGN
- PROPOSED/SALVAGED WIRELESS VEHICLE SENSOR NODE
- EXISTING/REMOVED WIRELESS VEHICLE SENSOR NODE
- SPP RADIO

GENERAL NOTES

SIGNALS

MAINTAINING AGENCY CONTACT INFORMATION
 • CITY OF ANN ARBOR: (734) 794-6361

NOTIFICATIONS TO MAINTAINING AGENCIES
 CONTACT THE CITY OF ANN ARBOR SEVEN WORKING DAYS PRIOR TO START OF CONSTRUCTION AND SEVEN WORKING DAYS PRIOR TO SIGNAL ACTIVATION.

FACILITIES NOT ON PLANS
 EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.

UNDERGROUND UTILITY SEPARATION
 A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITIES & EXISTING U.G. WATER FACILITIES.

SIGNAL EQUIPMENT DISPOSAL
 DISPOSAL OF ALL TRAFFIC SIGNAL EQUIPMENT IS INCLUDED IN THE REMOVAL PAY ITEMS AND SHALL ALSO INCLUDE THE FOLLOWING:

- NOTIFICATION TO THE CITY OF ANN ARBOR THAT TRAFFIC SIGNAL EQUIPMENT IS BEING REMOVED.
- TEMPORARY STORAGE OF EQUIPMENT IN A DUMPSTER ON SITE (OR AS DIRECTED BY THE ENGINEER) ALLOWING THE CITY OF ANN ARBOR 48 HOURS TO SALVAGE ANY EQUIPMENT.
- PROPER DISPOSAL OF ANY EQUIPMENT CONTAINING ENVIRONMENTALLY SENSITIVE MATERIALS (MERCURY RELAY SWITCHES FOR EXAMPLE)
- DISABLING OR DESTRUCTION OF ALL REMAINING EQUIPMENT TO THE SATISFACTION OF THE ENGINEER SUCH THAT IT CANNOT BE REUSED OR RESOLD.
- PROPER DISPOSAL OF ALL REMAINING EQUIPMENT.

PLAN DEVIATIONS DURING CONSTRUCTION
 NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES SIGNAL HEAD PLACEMENT OR TRAFFIC SIGNAL EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE CITY OF ANN ARBOR.

CONTINUOUS TRAFFIC SIGNAL OPERATION
 PLACE PROPOSED TRAFFIC SIGNAL INTO OPERATION AT TIME OF REMOVAL OF EXISTING TRAFFIC SIGNAL FACILITIES. CONTACT CITY OF ANN ARBOR IF UNABLE TO MAINTAIN THE TRAFFIC SIGNAL IN AN OPERABLE CONDITION AT ALL TIMES.

MDOT SIGNAL STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARDS GIVEN BELOW, OPPOSITE EACH ITEM, UNLESS OTHERWISE INDICATED.

- *SIG-230-A COLOR CODE WIRING/EQUIPMENT GROUNDING
- *SIG-250-A CONDUIT (DIRECT BURIAL/ENCASED)
- *SIG-330-A PEDESTAL MOUNTED SIGNAL DISPLAYS
- *SIG-331-A PEDESTAL MOUNTING FOR SIGNALS
- *SIG-340-A POLE MOUNTING SIGNAL DISPLAYS
- *SIG-341-A POLE MOUNTING DETAILS FOR SIGNALS
- *SIG-420-A WIRELESS VEHICLE DETECTION SYSTEM

*MDOT SPECIAL DETAILS - LOCATED IN PROPOSAL

MISCELLANEOUS QUANTITIES

THE LISTED ITEMS SHALL APPLY TO ALL LOCATIONS DIRECTED BY THE ENGINEER. THESE ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLAN SHEETS.

ITEM

- TS Face, Bag 4 Ea
- TS Face, Bag, Rem 4 Ea
- Recable, TS 200 Ft
- 3 inch Schedule 80 PVC Electrical Conduit 60 Lft

QUANTITIES

- 4 Ea
- 4 Ea
- 200 Ft
- 60 Lft



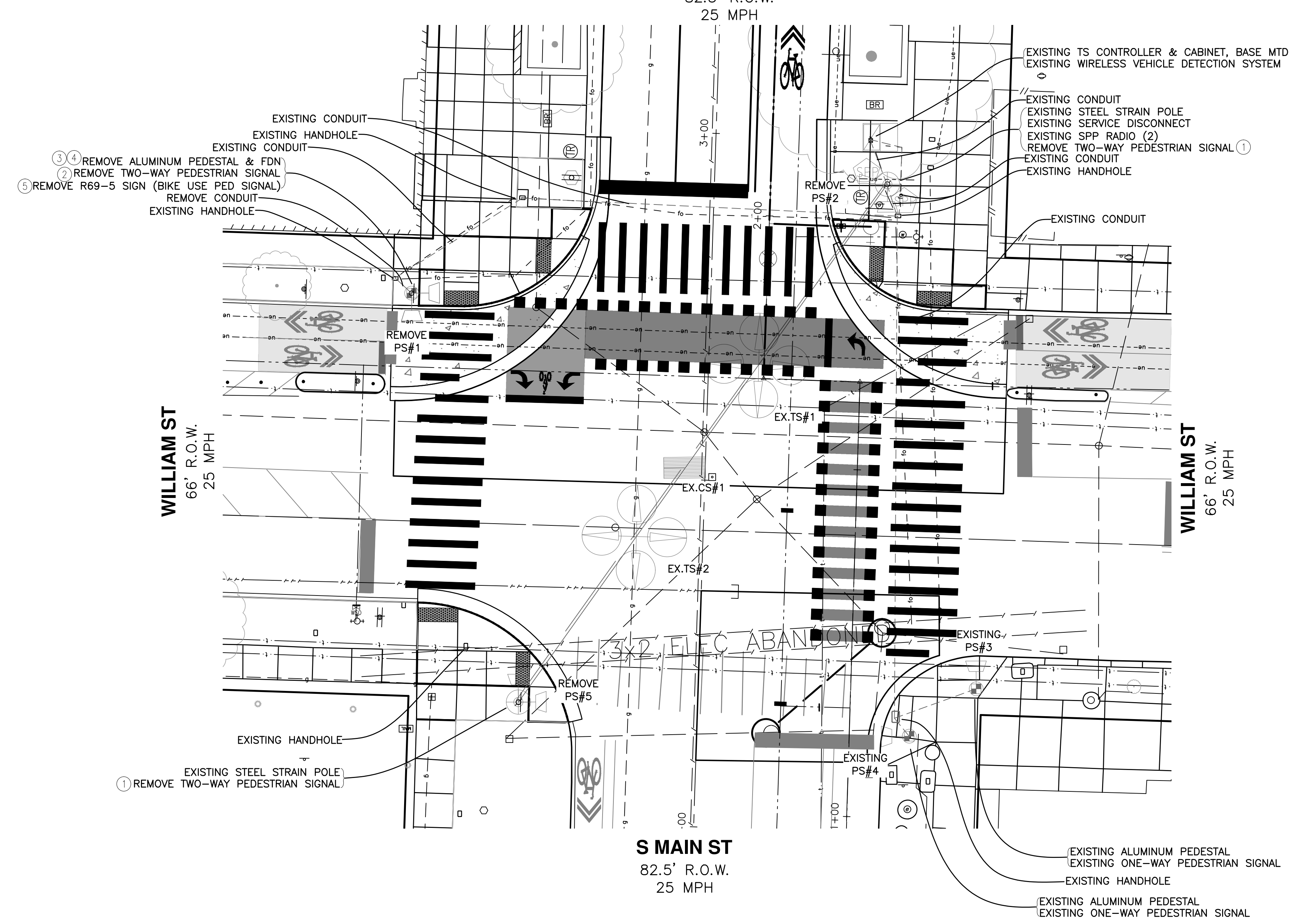
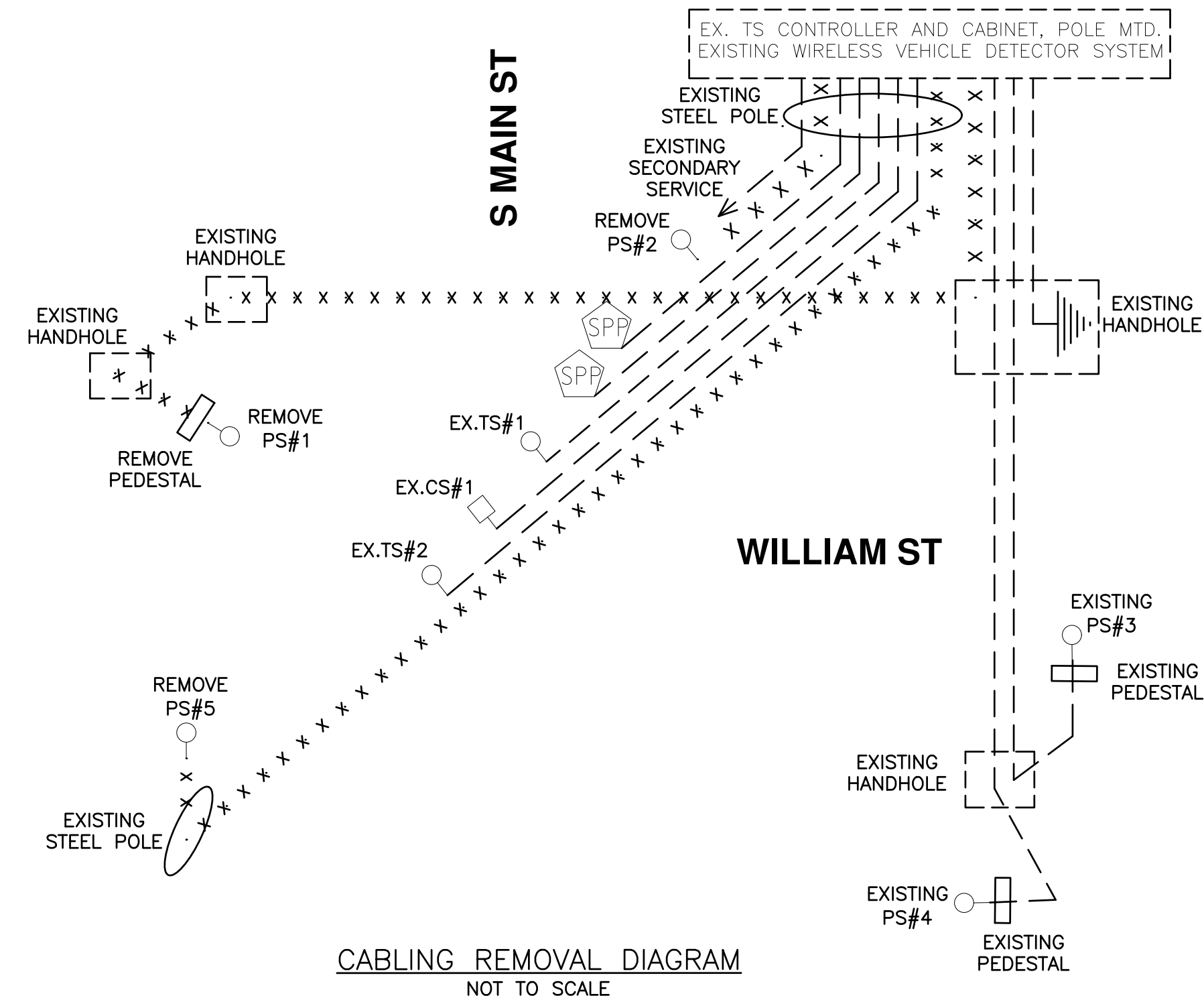
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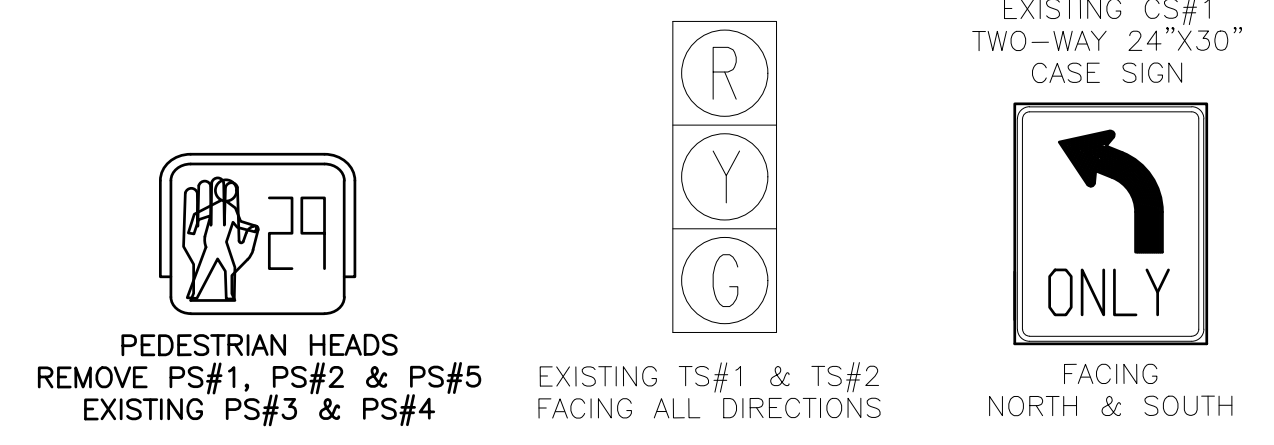
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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
 SIGNAL PLANS NOTES AND DETAILS

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INTERSECTION SPECIFIC NOTES:
REMOVAL OF TRAFFIC SIGNAL EQUIPMENT SHALL BE COORDINATED WITH ROAD CONSTRUCTION. TIME OF REMOVAL SHALL BE AS DIRECTED BY THE ENGINEER.
ANY HOLES LEFT IN EXISTING POLES FROM PEDESTRIAN SIGNAL REMOVAL SHALL BE REPAIRED WITH A WATER TIGHT PLUG. THIS IS INCLUDED IN THE BRACKET ARM MOUNTED PEDESTRIAN SIGNAL REMOVAL AND WILL NOT BE PAID FOR SEPARATELY.

LIST OF MATERIAL		
NO.	ITEM	QUANTITIES
①	TS, Pedestrian, Bracket Arm Mtd, Rem	2 Ea
②	TS, Pedestrian, Pedestal Mtd, Rem	1 Ea
③	Pedestal, Rem	1 Ea
④	Pedestal Fdn, Rem	1 Ea
⑤	Sign, Type III, Rem	1 Ea
○	Conduit, Rem	8 Ft



OPENINGS	34
CYCLIC WATTS	432
STEADY WATTS	90

811
Know what's below. Call before you dig.

DATE: _____
DRAWN: _____
CHECKED: _____

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

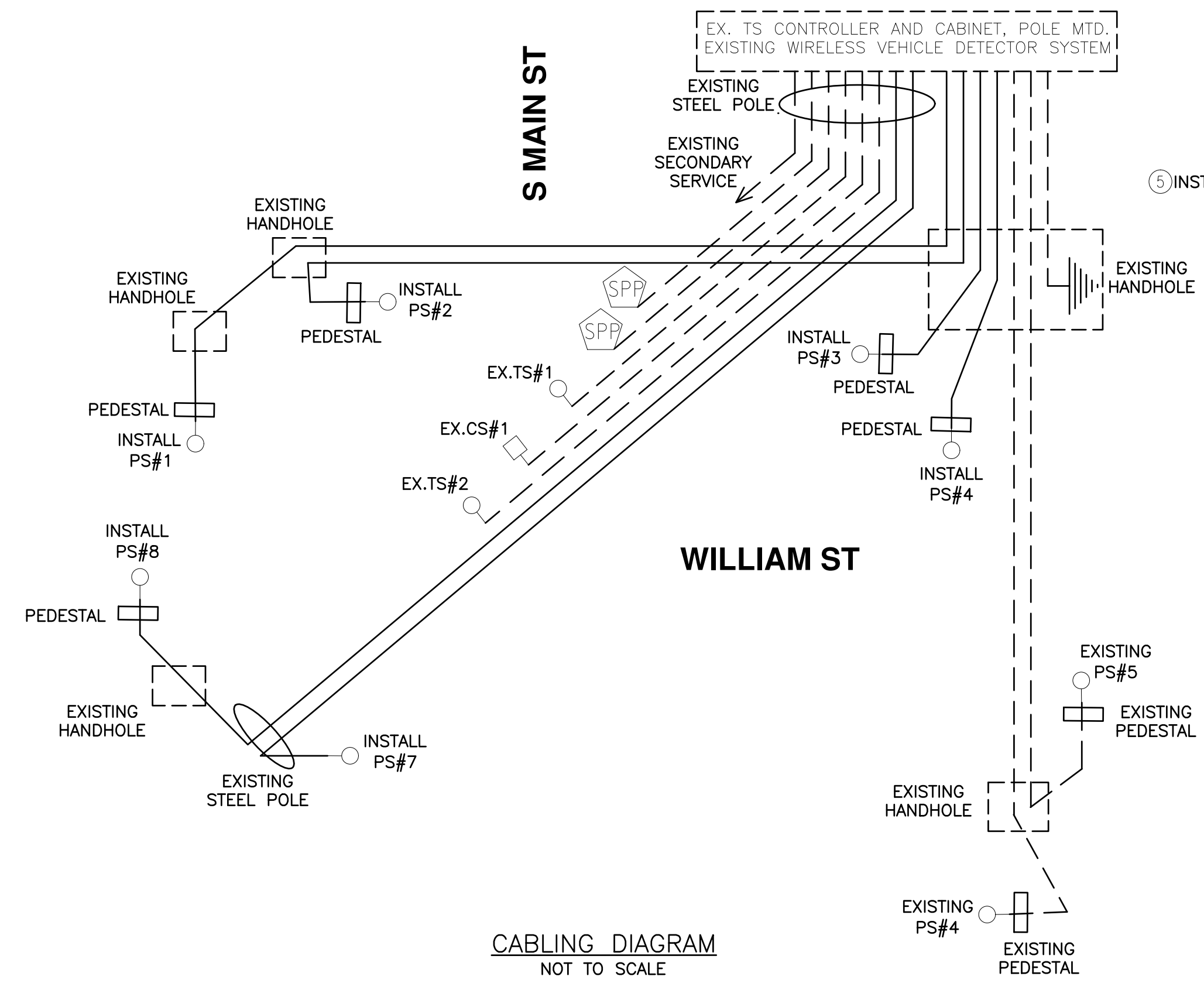
SIGNAL PLANS REMOVAL - S MAIN @ WILLIAM

SCALE PLAN: 1"=10'
DRAWING NO.: 2020-038-66

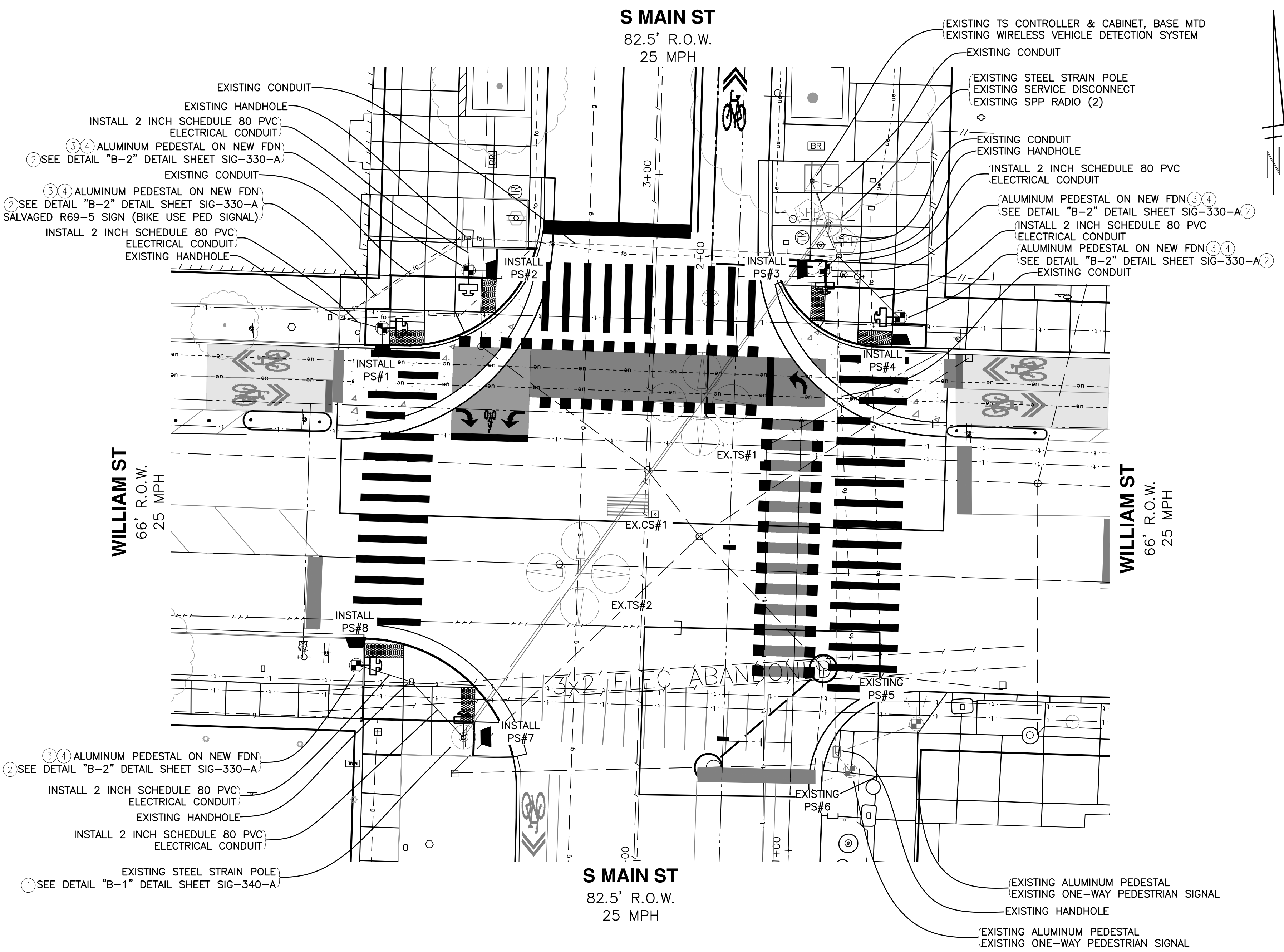
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ANN ARBOR, MI 48106-1667
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SHEET No. **66 OF 80**

CABLES TO BE USED
UNLESS SPECIFIED OTHERWISE
1. PEDESTRIAN SIGNAL CABLES ARE 7/C#16 PJ.

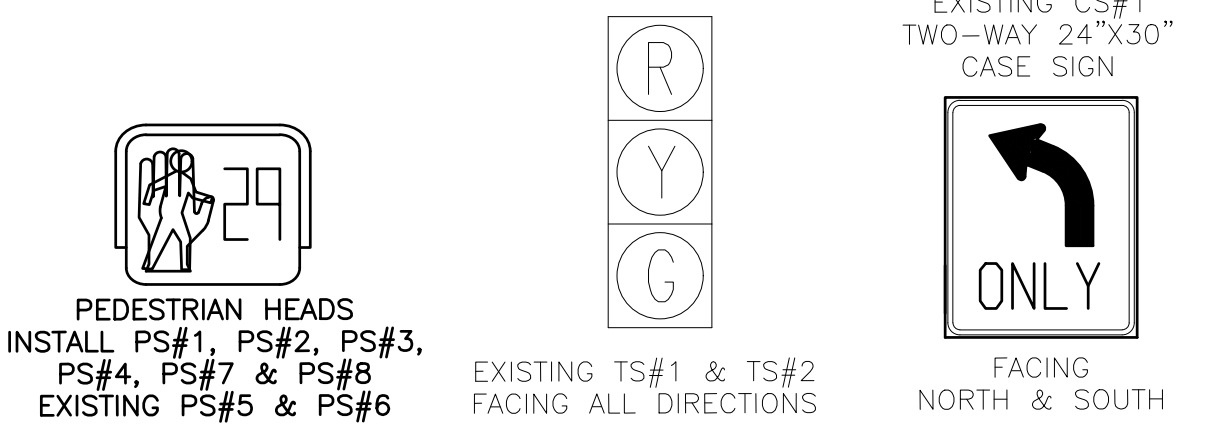


CABLING DIAGRAM
NOT TO SCALE



INTERSECTION SPECIFIC NOTES:
UTILIZE EXISTING CONDUIT & HANDHOLES WHERE POSSIBLE OTHERWISE INSTALL NEW AS DIRECTED BY ENGINEER.
INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT SHALL BE COORDINATED WITH THE ROAD AND SIDEWALK CONSTRUCTION. TIME OF INSTALLATION SHALL BE AS DIRECTED BY THE ENGINEER.
SEE PAVEMENT MARKING PLAN SHEETS FOR SIGNING AND PAVEMENT MARKING INSTALLATIONS AND QUANTITIES.
PUSHBUTTONS SHOWN FOR INFORMATION ONLY. NOT BEING INSTALLED WITH THIS CONTRACT.

LIST OF MATERIAL		
NO.	ITEM	QUANTITIES
①	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	1 Ea
②	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	5 Ea
③	Pedestal, Alum	5 Ea
④	Pedestal, Fdn	5 Ea
⑤	Sign, Type III, Erect, Salv	1 Ea
○	2 inch Schedule 80 PVC Electrical Conduit	50 Lft



OPENINGS	34
CYCLIC WATTS	432
STEADY WATTS	90

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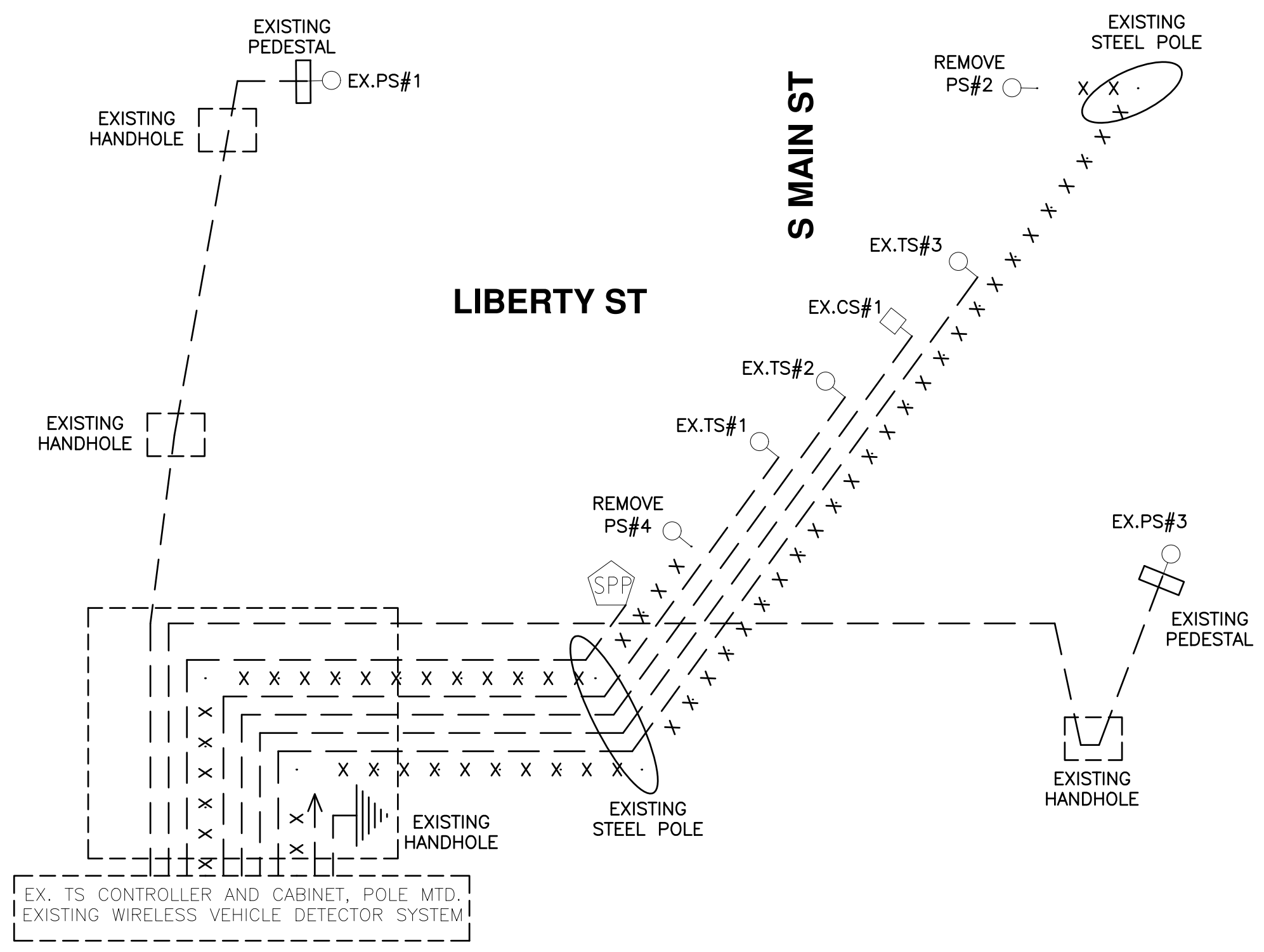
SIGNAL PLANS CONSTRUCTION - S MAIN @ WILLIAM

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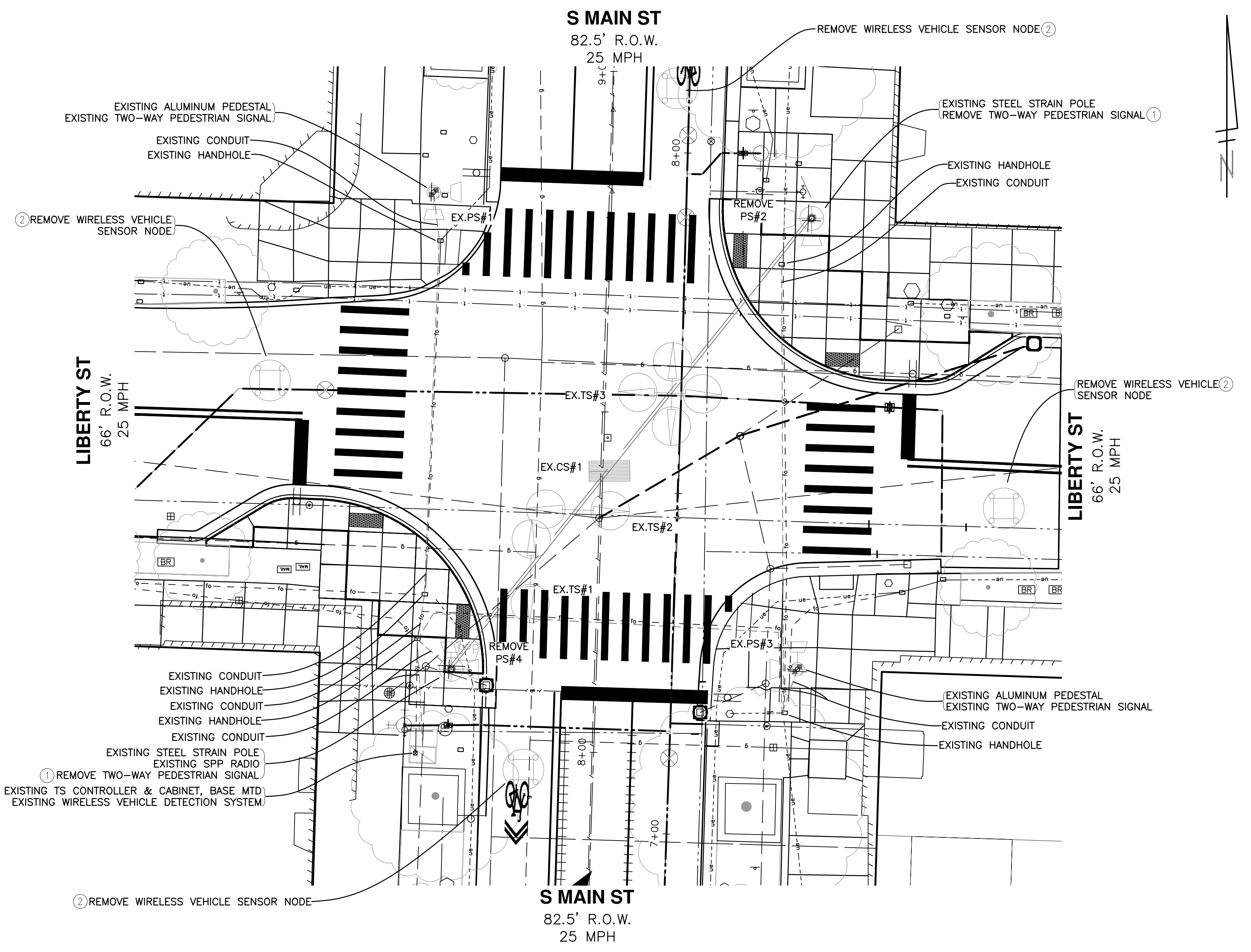
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DRAWING NO.: 2020-038-67

SHEET No. **67 OF 80**

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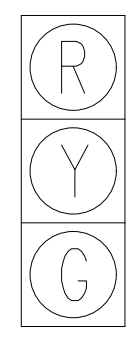
CABLING REMOVAL DIAGRAM
NOT TO SCALE




INTERSECTION SPECIFIC NOTES:
REMOVAL OF TRAFFIC SIGNAL EQUIPMENT SHALL BE COORDINATED WITH ROAD CONSTRUCTION. TIME OF REMOVAL SHALL BE AS DIRECTED BY THE ENGINEER.
ANY HOLES LEFT IN EXISTING POLES FROM PEDESTRIAN SIGNAL REMOVAL SHALL BE REPAIRED WITH A WATER TIGHT PLUG. THIS IS INCLUDED IN THE BRACKET ARM MOUNTED PEDESTRIAN SIGNAL REMOVAL AND WILL NOT BE PAID FOR SEPARATELY.


LIST OF MATERIAL		
NO.	ITEM	QUANTITIES
①	TS, Pedestrian, Bracket Arm Mtd, Rem	2 Ea
②	Wireless Vehicle Sensor Node, Rem	4 Ea

 PEDESTRIAN HEADS
EXISTING PS#1 & PS#3
REMOVE PS#2 & PS#4

 EXISTING TS#1 FACING NORTH & SOUTH
EXISTING TS#2 FACING EAST & WEST
EXISTING TS#3 FACING ALL DIRECTIONS

 EXISTING CS#1
TWO-WAY 24"x30"
CASE SIGN
FACING
NORTH & SOUTH

OPENINGS	34
CYCLIC WATTS	432
STEADY WATTS	90

 Know what's below.
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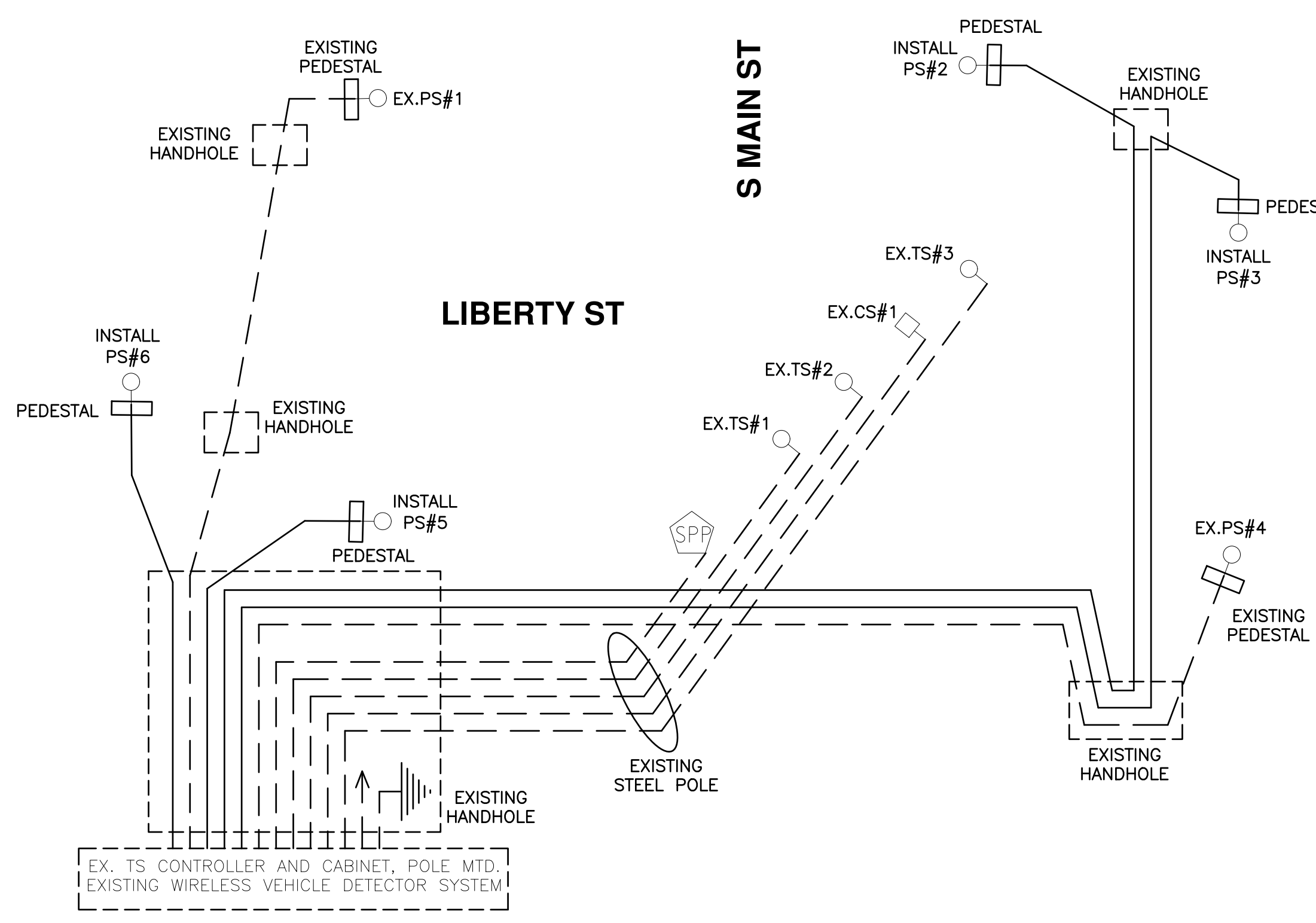
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S. MAIN STREET WATER MAIN
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 SIGNAL PLANS REMOVAL - S MAIN @ LIBERTY

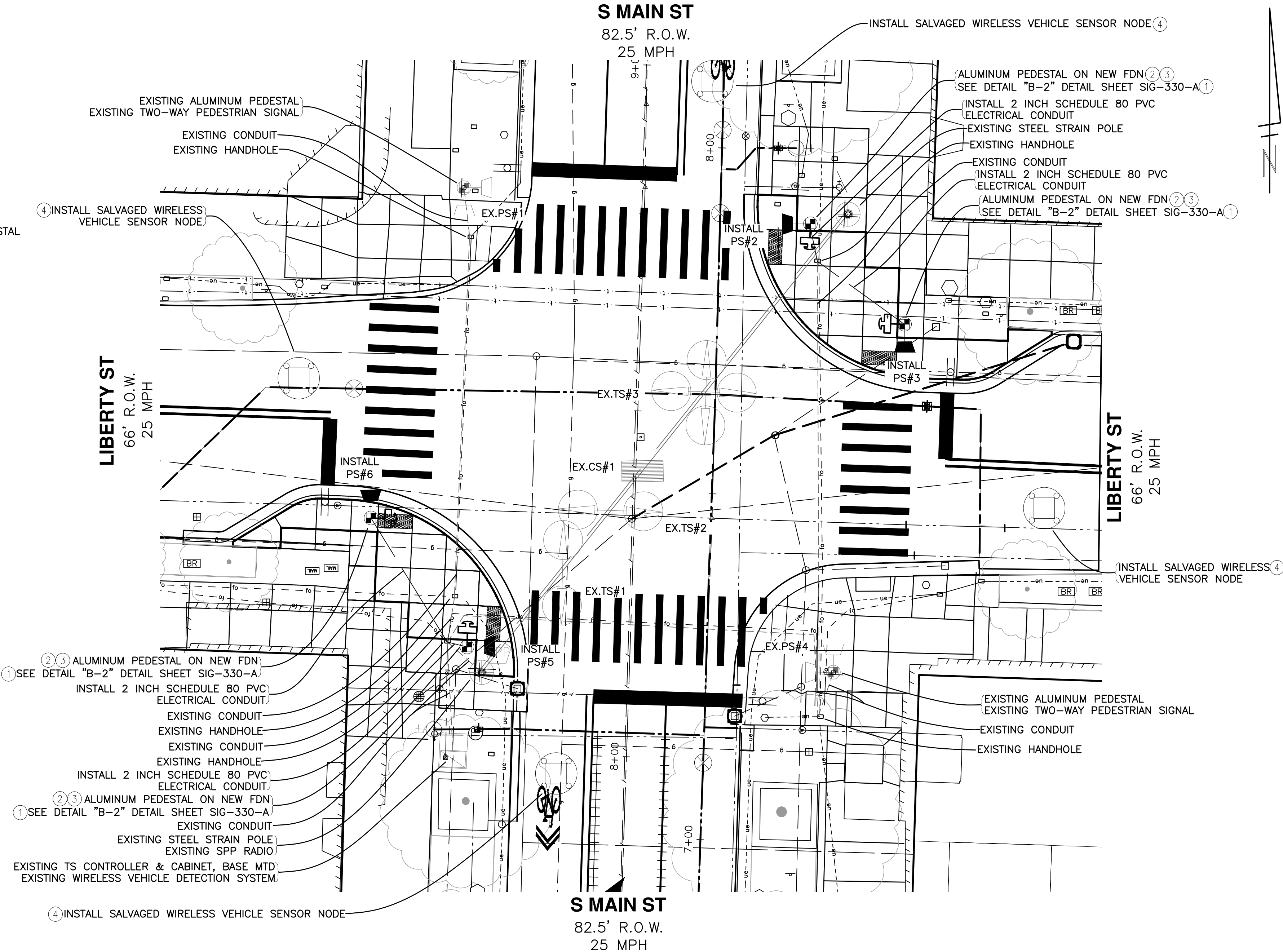
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 SHEET No. 68 OF 80

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 1. PEDESTRIAN SIGNAL CABLES ARE 7/C#16 PJ.

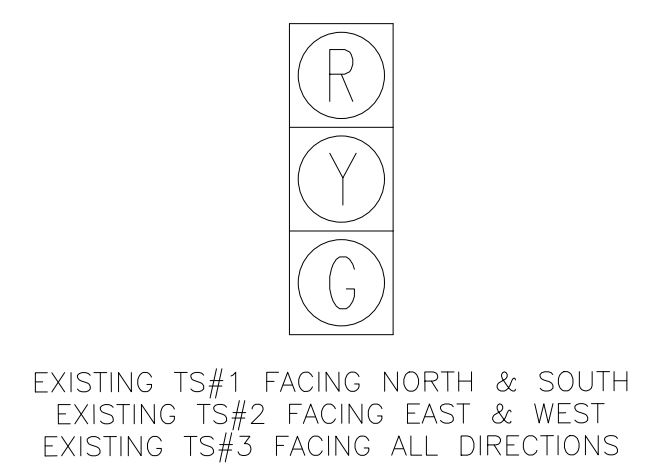


CABLING DIAGRAM
 NOT TO SCALE



INTERSECTION SPECIFIC NOTES:
 UTILIZE EXISTING CONDUIT & HANDHOLES WHERE POSSIBLE OTHERWISE INSTALL NEW AS DIRECTED BY ENGINEER.
 INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT SHALL BE COORDINATED WITH THE ROAD AND SIDEWALK CONSTRUCTION. TIME OF INSTALLATION SHALL BE AS DIRECTED BY THE ENGINEER.
 SEE PAVEMENT MARKING PLAN SHEETS FOR SIGNING AND PAVEMENT MARKING INSTALLATIONS AND QUANTITIES.
 PUSHBUTTONS SHOWN FOR INFORMATION ONLY. NOT BEING INSTALLED WITH THIS CONTRACT.

LIST OF MATERIAL		
NO.	ITEM	QUANTITIES
①	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	4 Ea
②	Pedestal, Alum	4 Ea
③	Pedestal, Fdn	4 Ea
④	Wireless Vehicle Sensor Node, Salv	4 Ea
○	2 inch Schedule 80 PVC Electrical Conduit	45 Lft



OPENINGS	34
CYCLIC WATTS	432
STEADY WATTS	90

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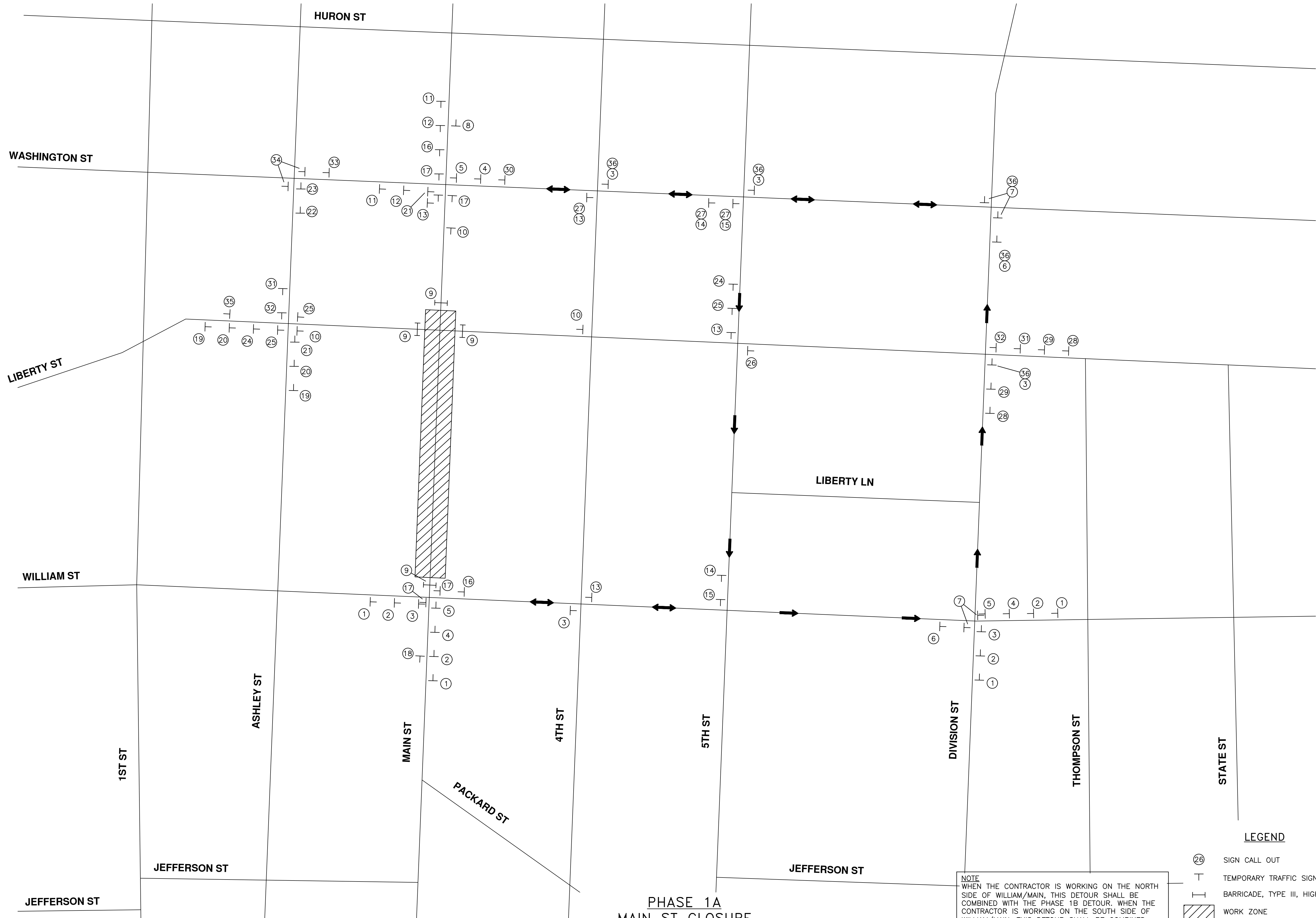
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S. MAIN STREET WATER MAIN
 REPLACEMENT & RESURFACE PROJECT
 SIGNAL PLANS CONSTRUCTION - S MAIN @ LIBERTY

SCALE PLAN: 1"=10'
 DRAWING NO.: 2020-038-69

SHEET No. 69 OF 80

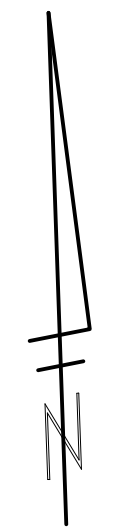
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**PHASE 1A
MAIN ST CLOSURE
WILLIAM ST TO LIBERTY ST**

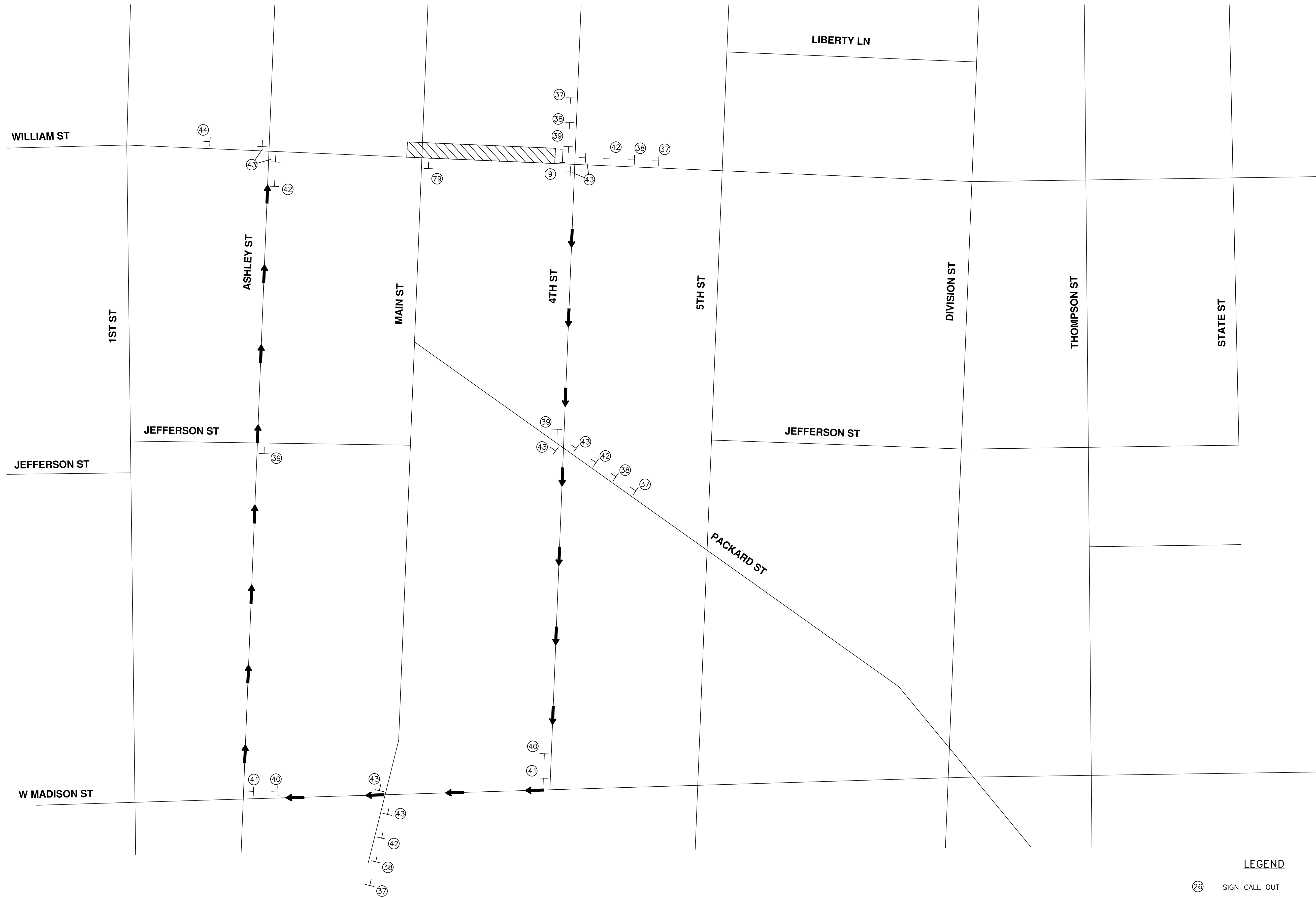
NOTE
WHEN THE CONTRACTOR IS WORKING ON THE NORTH
SIDE OF WILLIAM/MAIN, THIS DETOUR SHALL BE
COMBINED WITH THE PHASE 1B DETOUR. WHEN THE
CONTRACTOR IS WORKING ON THE SOUTH SIDE OF
WILLIAM/MAIN, THIS DETOUR SHALL BE COMBINED
WITH THE PHASE 1C DETOUR. THE PHASE 1B AND
PHASE 1C DETOUR SHALL NOT BE IN PLACE
SIMULTANEOUSLY.

- LEGEND**
- Ⓜ SIGN CALL OUT
 - T TEMPORARY TRAFFIC SIGN
 - |— BARRICADE, TYPE III, HIGH INTENSITY
 - ▨ WORK ZONE
 - ➔ TRAFFIC FLOW



 CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 www.a2gov.org	CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT PHASE 1A MOT PLAN S MAIN ST CLOSURE - WILLIAM TO LIBERTY	SCALE PLAN: ##### PROFILE: 1" = X' DRAWING No. 2020-038-70	SHEET No. 70 OF 80	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECKED					
REV.	DESCRIPTION	DATE	DRAWN	CHECKED										

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**PHASE 1B
WESTBOUND WILLIAM ST CLOSURE
4TH AVE TO MAIN ST**

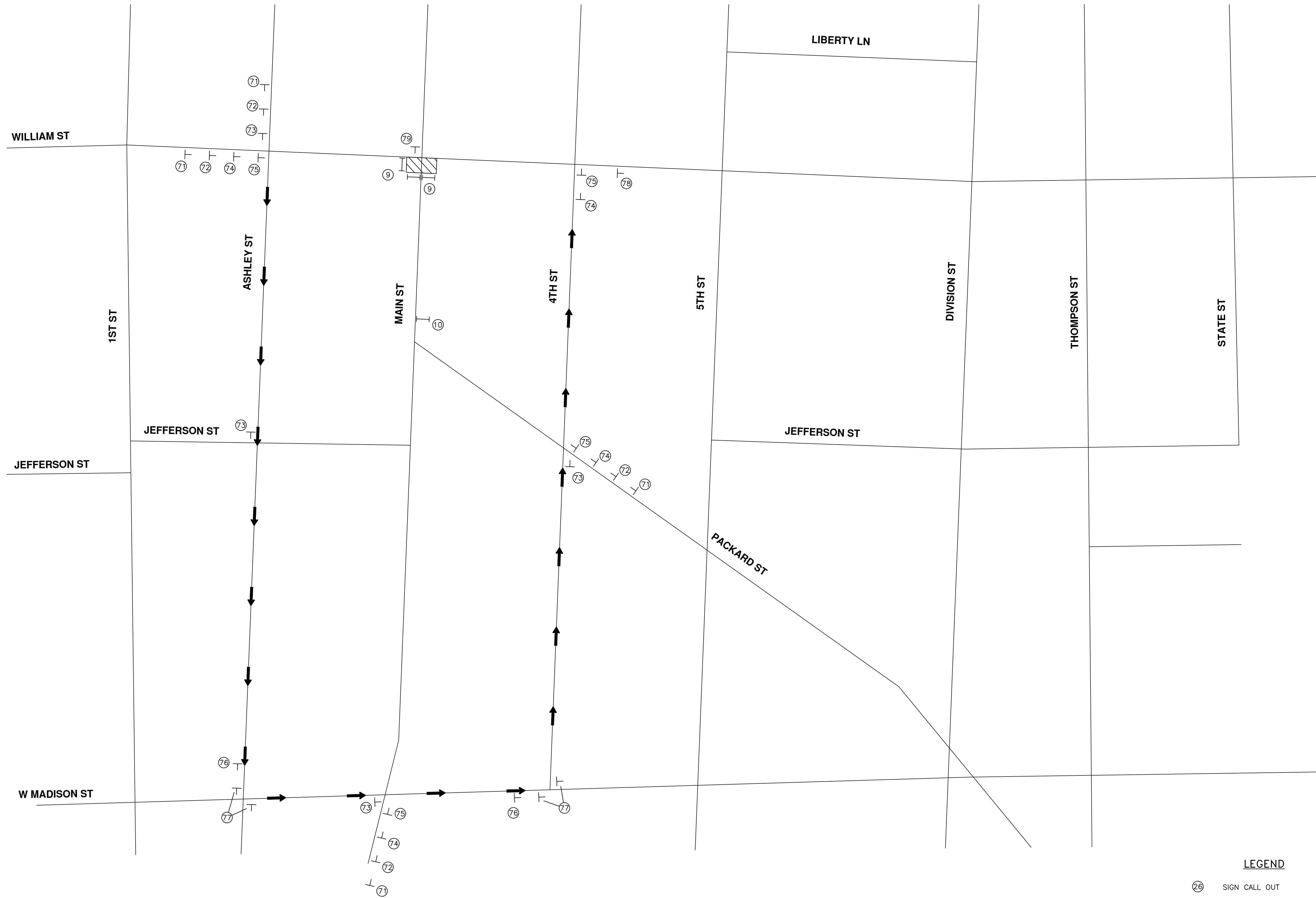
NOTE
THE PHASE 1B AND PHASE 1C DETOUR SHALL NOT
BE IN PLACE SIMULTANEOUSLY.

- LEGEND**
- ⓪ SIGN CALL OUT
 - T TEMPORARY TRAFFIC SIGN
 - |— BARRICADE, TYPE III, HIGH INTENSITY
 - ▨ WORK ZONE
 - ➔ TRAFFIC FLOW



<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p> <p>S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT</p> <p>PHASE 1B MOT PLAN WB WILLIAM ST CLOSURE</p>	<p>Know what's below. Call Before you dig.</p> <p>811</p>
SCALE PLAN: ##### PROFILE: 1" = 4" DRAWING No. 2020-038-71 SHEET No. 71 OF 80	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-3647 WWW.A2GOV.ORG
DESCRIPTION REV.	DATE DRAWN CHECKED

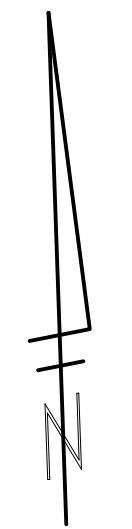
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**PHASE 1C
EASTBOUND WILLIAM ST CLOSURE
4TH AVE TO MAIN ST**

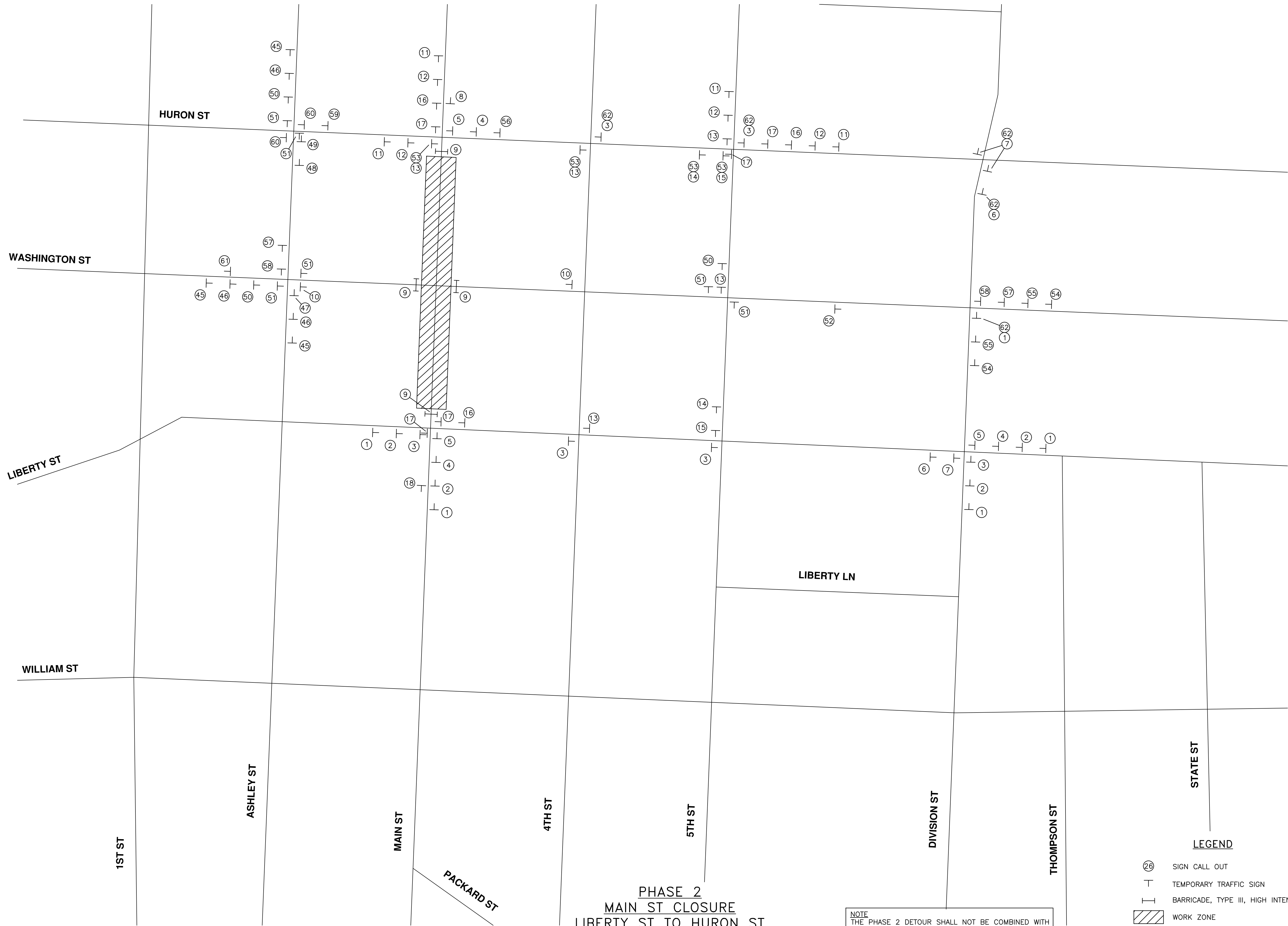
NOTE
THE PHASE 1B AND PHASE 1C DETOUR SHALL NOT
BE IN PLACE SIMULTANEOUSLY.

- LEGEND**
- Ⓣ SIGN CALL OUT
 - T TEMPORARY TRAFFIC SIGN
 - |— BARRICADE, TYPE III, HIGH INTENSITY
 - ▨ WORK ZONE
 - ➔ TRAFFIC FLOW



 <p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p>											
<p>S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT</p> <p>PHASE 1C MOT PLAN EB WILLIAM ST CLOSURE</p>											
<p>SCALE PLAN: #####</p> <p>PROFILE: 1" = X'</p> <p>DRAWING No. 2020-038-72</p>	<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-3647 www.a2gov.org</p>										
<p>SHEET No. 72 OF 80</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECKED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECKED					
REV.	DESCRIPTION	DATE	DRAWN	CHECKED							

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**PHASE 2
MAIN ST CLOSURE
LIBERTY ST TO HURON ST**

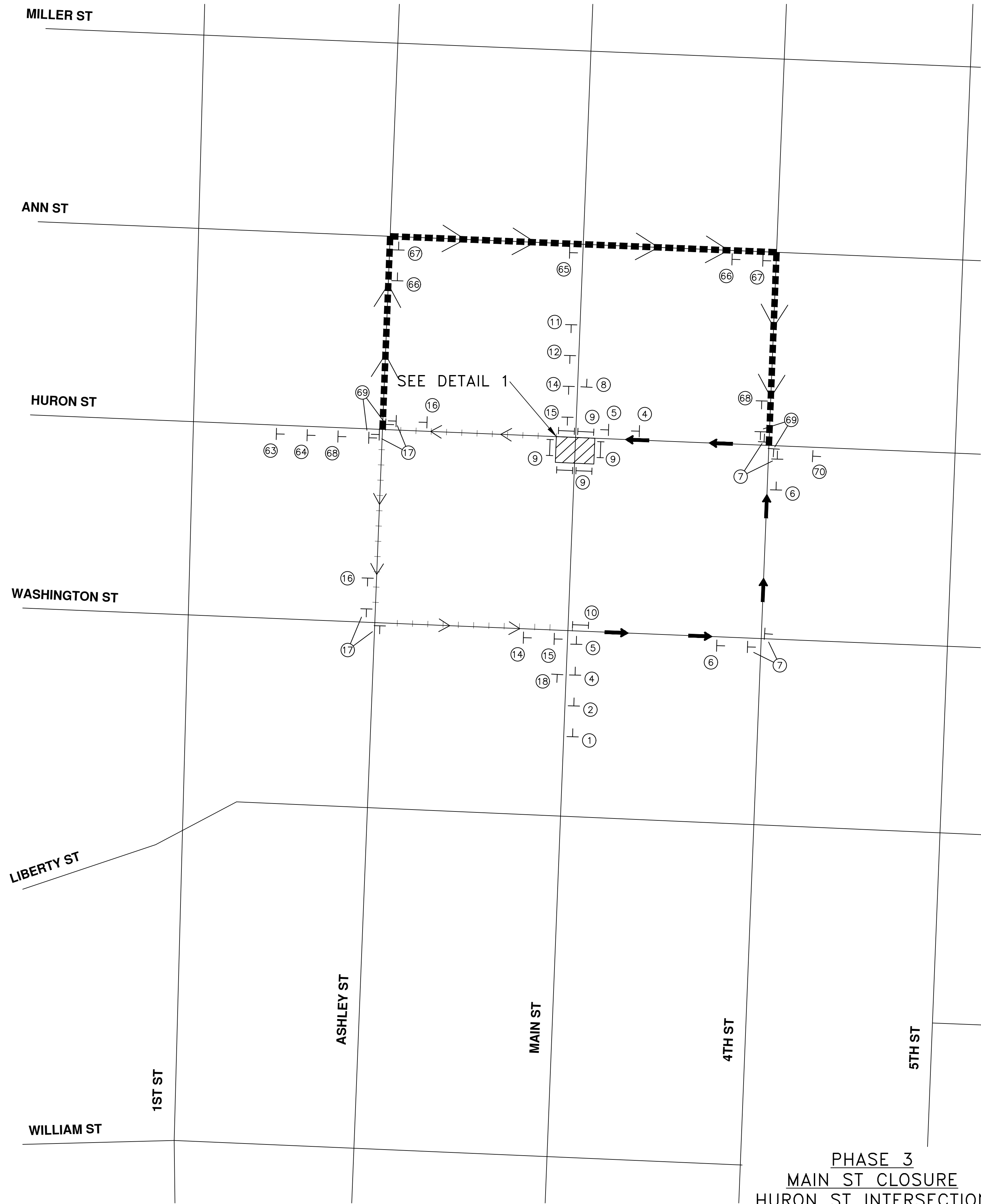
NOTE
THE PHASE 2 DETOUR SHALL NOT BE COMBINED WITH ANY OTHER DETOUR.

- LEGEND**
- Ⓣ SIGN CALL OUT
 - T TEMPORARY TRAFFIC SIGN
 - I BARRICADE, TYPE III, HIGH INTENSITY
 - ▨ WORK ZONE



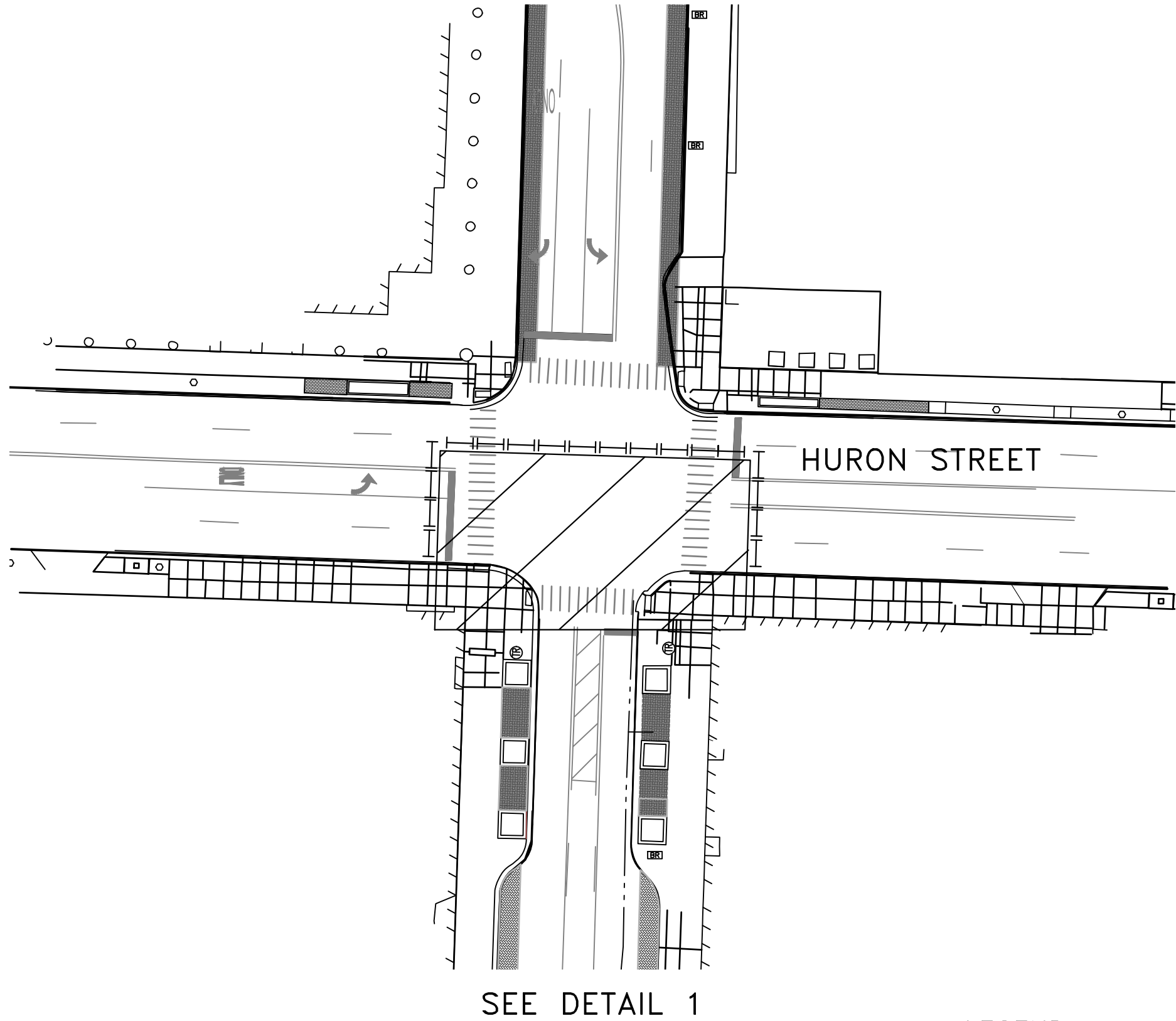
<p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p> <p>S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT</p> <p>PHASE 2 MOT PLAN S MAIN ST CLOSURE - LIBERTY TO HURON</p>	<p>SCALE PLAN: ##### PROFILE: 1" = X'</p> <p>DRAWING No. 2020-038-73</p> <p>SHEET No. 73 OF 80</p>
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-3647 www.a2gov.org</p>	
<p>REV. DESCRIPTION DATE DRAWN CHECKED</p>	

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**PHASE 3
MAIN ST CLOSURE
HURON ST INTERSECTION**

NOTE
THE PHASE 3 DETOUR SHALL NOT BE COMBINED WITH
ANY OTHER DETOUR.




SEE DETAIL 1

LEGEND

- (26) SIGN CALL OUT
- T TEMPORARY TRAFFIC SIGN
- ||| BARRICADE, TYPE III, HIGH INTENSITY
- ▨ WORK ZONE
- ➔ NB MAIN ST DETOUR
- ↘ SB MAIN ST DETOUR
- ↙ EB HURON ST DETOUR



 <p>CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING</p>	
<p>S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT</p>	
<p>PHASE 3 MOT S MAIN ST CLOSURE - HURON ST INTERSECTION</p>	
<p>CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org</p>	<p>SCALE PLAN: ##### PROFILE: 1" = X' DRAWING No. 2020-038-74</p>
<p>DESCRIPTION</p>	<p>REV. DATE DRAWN CHECKED</p>
<p>SHEET No. 74 OF 80</p>	

79 numbered traffic signs arranged in a grid. Each sign includes its dimensions and a brief description.

5.97 | 6.52 | 12.54 | 5.97
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"NB", C; "MAIN", C;

5.87 | 5.22 | 10.04 | 5.87
30
12

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"NB", C; "MAIN", C;

5.97 | 6.52 | 12.54 | 5.97
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"SB", C; "MAIN", C;

5.87 | 5.22 | 10.04 | 5.87
30
12

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"SB", C; "MAIN", C;

5.66 | 19.26 | 3.54
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB", C 50% spacing;
"LIBERTY", C 50% spacing;

5.54 | 15.41 | 3.53
30
12

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB", C 50% spacing;
"LIBERTY", C 50% spacing;

6.9 | 19.26 | 2.92
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WB", C 50% spacing;
"LIBERTY", C 50% spacing;

5.53 | 15.41 | 3.03
30
12

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WB", C 50% spacing;
"LIBERTY", C 50% spacing;

6.9 | 19.16 | 3.47
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WB", C 50% spacing;
"WILLIAM", C 50% spacing;

5.53 | 15.33 | 3.07
30
12

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WB", C 50% spacing;
"WILLIAM", C 50% spacing;

28.24 | 30.68 | 2.68
36
24

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EASTBOUND", C 50% spacing;
"WASHINGTON", C 50% spacing;

22.6 | 24.54 | 2.73
30
18

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EASTBOUND", C 50% spacing;
"WASHINGTON", C 50% spacing;

29 | 30.68 | 2.68
36
24

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WESTBOUND", C 50% spacing;
"WASHINGTON", C 50% spacing;

23.2 | 24.54 | 2.73
30
18

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WESTBOUND", C 50% spacing;
"WASHINGTON", C 50% spacing;

6.07 | 17.83 | 4.05
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB", C; "HURON", C;

5.66 | 19.16 | 4.09
36
15

W20-13P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB", C 50% spacing;
"WILLIAM", C 50% spacing;

5.94 | 14.26 | 3.94
30
12

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB", C; "HURON", C;

5.74 | 15.33 | 3.57
30
12

W20-12P;
1.63" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB", C 50% spacing;
"WILLIAM", C 50% spacing;

36
48

R3-31R
36"x48"

MAINTENANCE OF TRAFFIC LEGEND SHEET

811 Know what's below. Call before you dig.

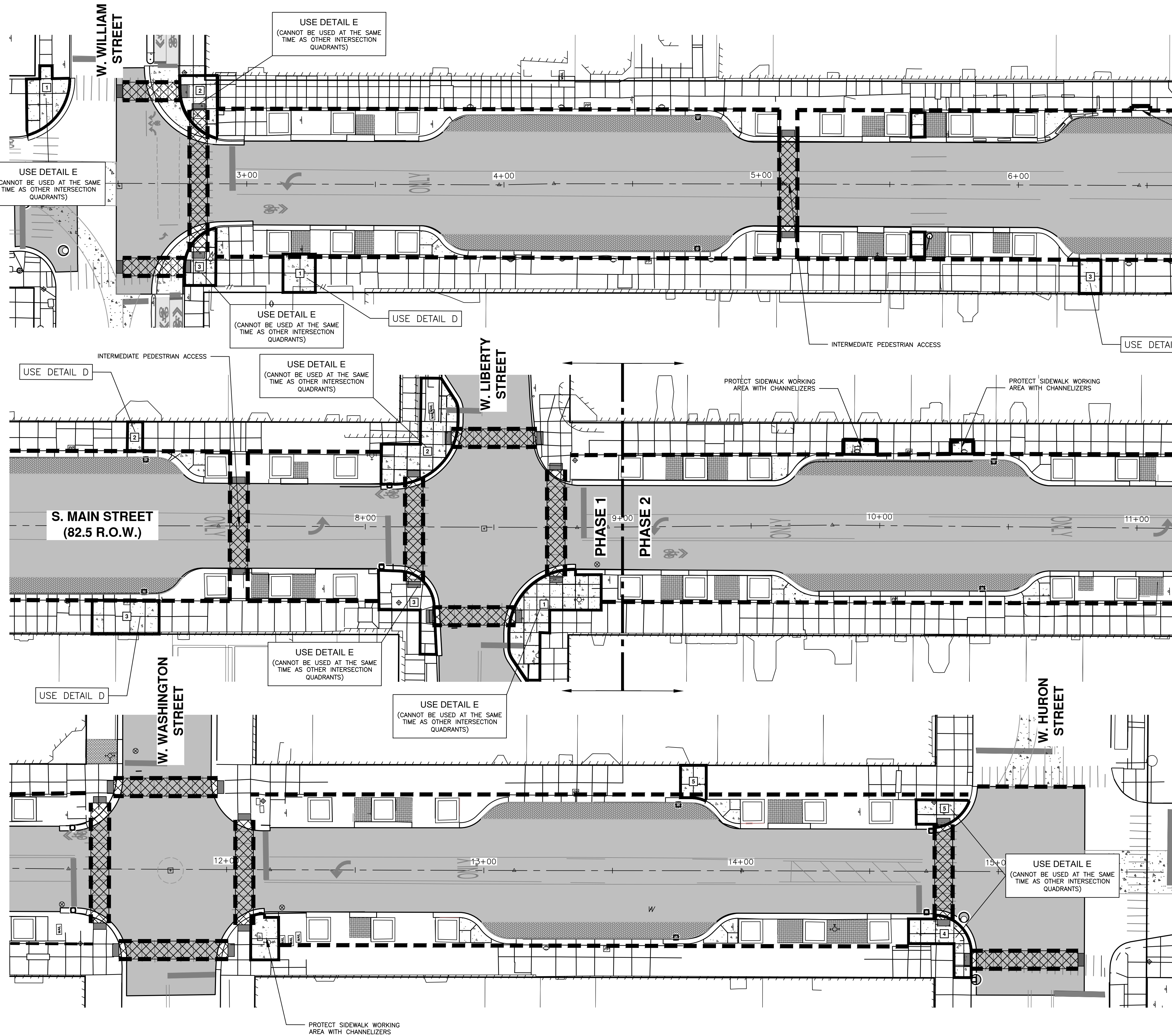
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR MI 48107-8647 www.aagov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
MOTT LEGEND

PROFILE: 1" = 1'
SCALE PLAN: #####
DRAWING NO.: 2020-038-75
SHEET NO.: 75 OF 80

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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USE DETAIL E
(CANNOT BE USED AT THE SAME TIME AS OTHER INTERSECTION QUADRANTS)

USE DETAIL E
(CANNOT BE USED AT THE SAME TIME AS OTHER INTERSECTION QUADRANTS)

USE DETAIL E
(CANNOT BE USED AT THE SAME TIME AS OTHER INTERSECTION QUADRANTS)

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USE DETAIL E
(CANNOT BE USED AT THE SAME TIME AS OTHER INTERSECTION QUADRANTS)

USE DETAIL E
(CANNOT BE USED AT THE SAME TIME AS OTHER INTERSECTION QUADRANTS)

- NOTE:**
1. MAIN STREET WILL ALWAYS BE CLOSED TO VEHICULAR TRAFFIC.
 2. PEDESTRIAN TRAFFIC SHALL BE DETOURED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF ANN ARBOR'S PEDESTRIAN MOT TYPICAL SET AS ATTACHED.
 3. TO BE USED WITH THE CORRESPONDING VEHICLE DETOUR.
 4. "INTERMEDIATE" TEMPORARY PEDESTRIAN ACCESS SHALL BE INSTALLED IN ADVANCE OF SIDEWALK REMOVALS.
 5. IN AREAS WHERE OUTDOOR DINING CAN SAFELY OCCUR, THE ENGINEER MAY ELECT TO MOVE CHANNELIZERS CLOSER TO THE BACK OF CURB TO ALLOW FOR OUTDOOR DINING.

LEGEND

- SIDEWALK WORK ZONE
- RECOMMENDED ORDER OF CONSTRUCTION
- PEDESTRIAN CHANNELIZER
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN ACCESS



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: #####
PROFILE: 1" = 4'

DRAWING No. 2020-038-76

SHEET No. 76 OF 80

S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT

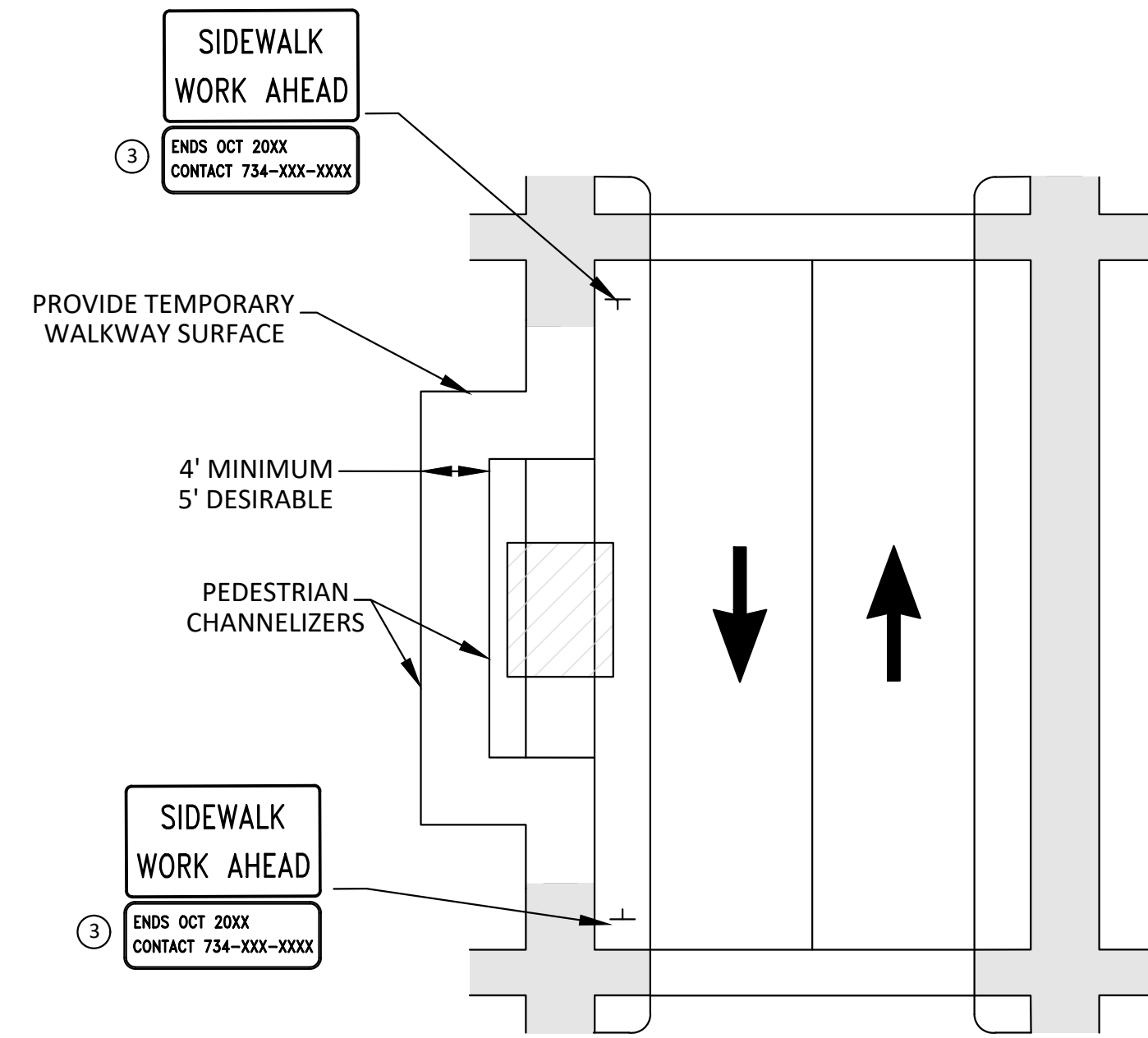
MOT PEDESTRIAN DETOUR MAIN ST CLOSURE

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

811
Know what's below.
Call before you dig.

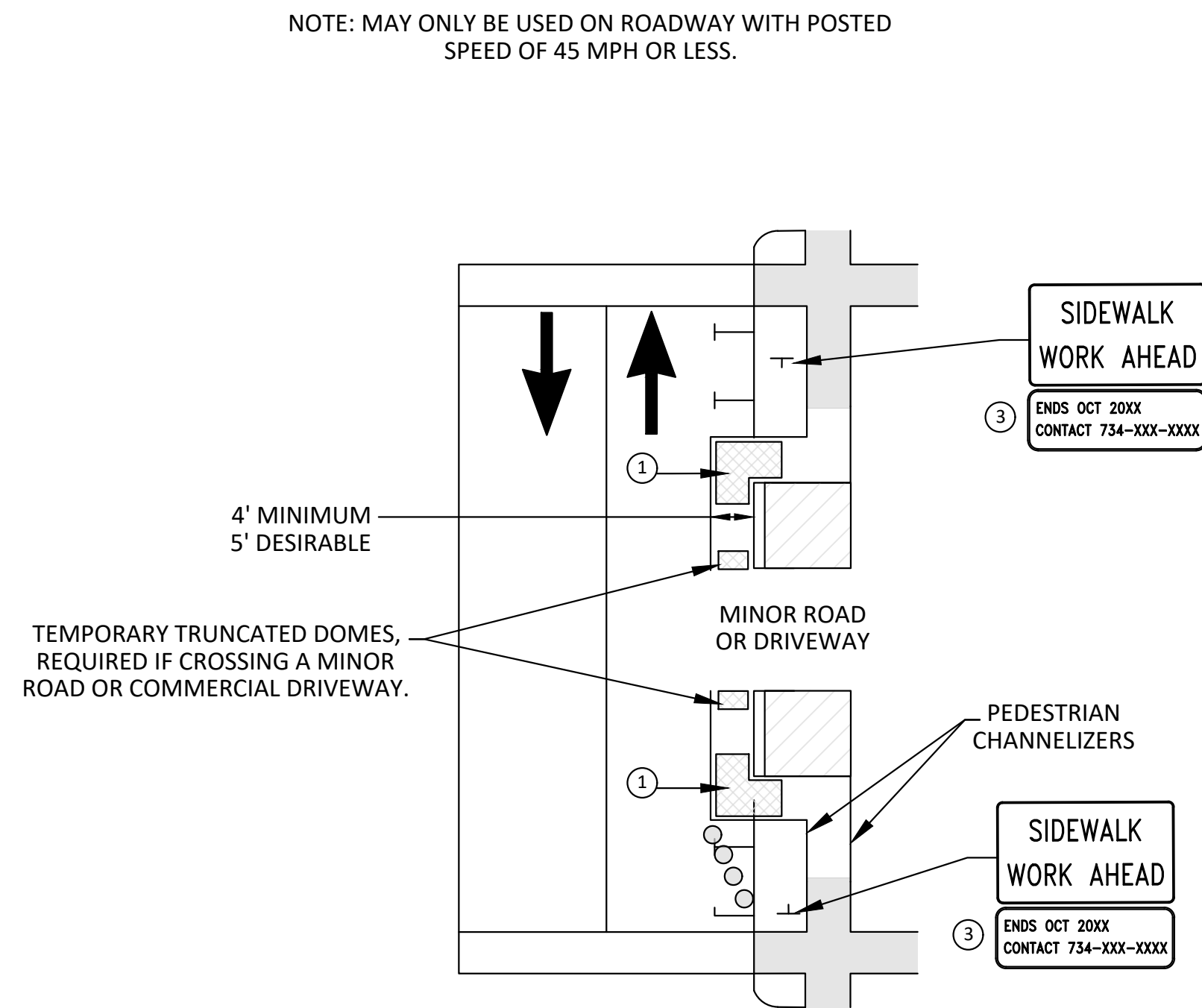
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301 EAST HURON STREET
ANN ARBOR, MI 48106-1647
www.a2gov.org

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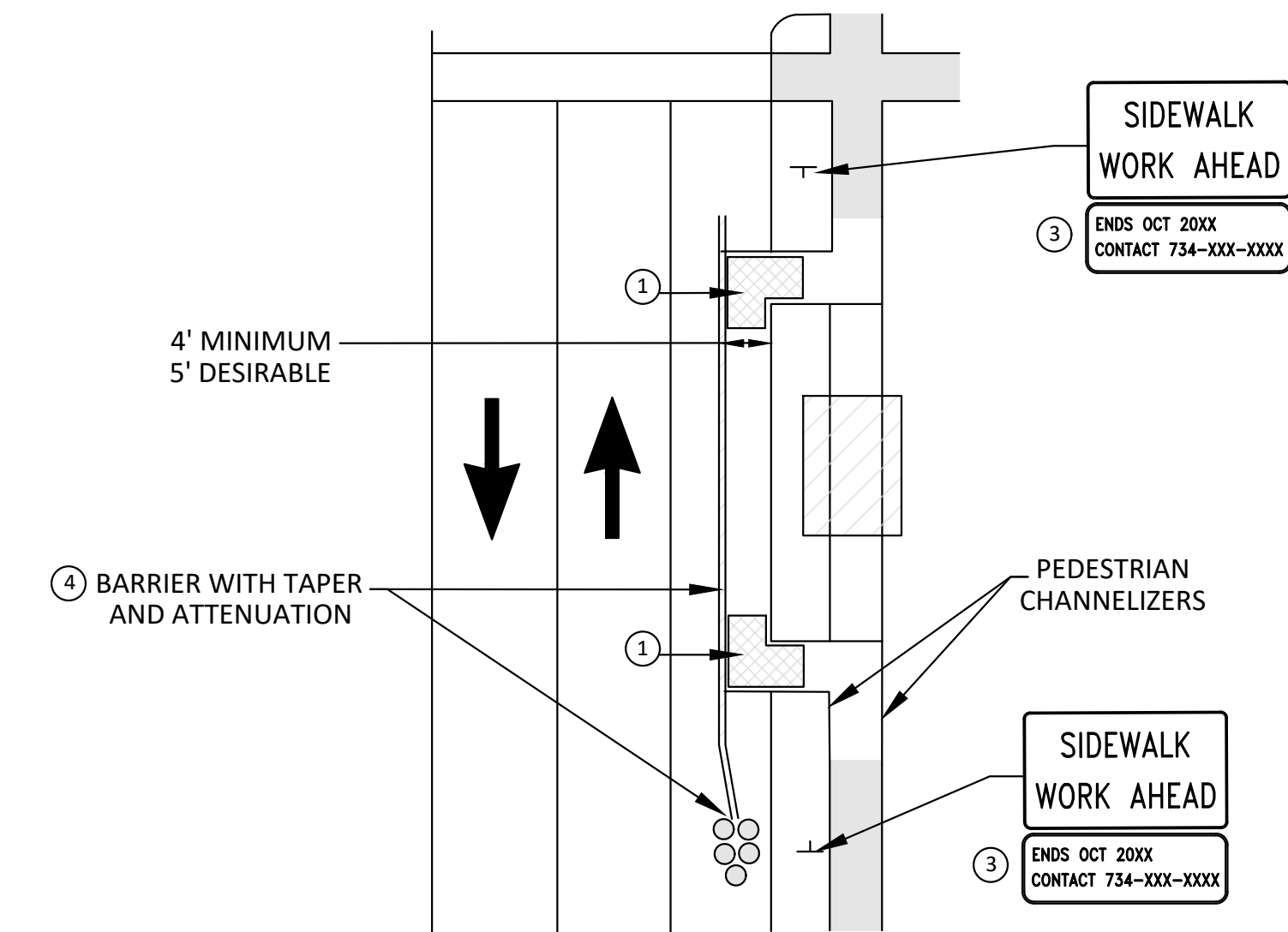
BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY

DETAIL A



SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY

DETAIL B



SIDEWALK BYPASS USING
SHOULDER ON OR PARKING LANE
HIGH SPEED ROADWAY

DETAIL C

NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED
SPEED OF 45 MPH OR LESS.

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

SPECIFIC NOTES

- ① TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- ② 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- ③ AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
- ④ THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
- ⑤ TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- ⑥ SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

LEGEND

- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▨ WORK AREA
- ▨ PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

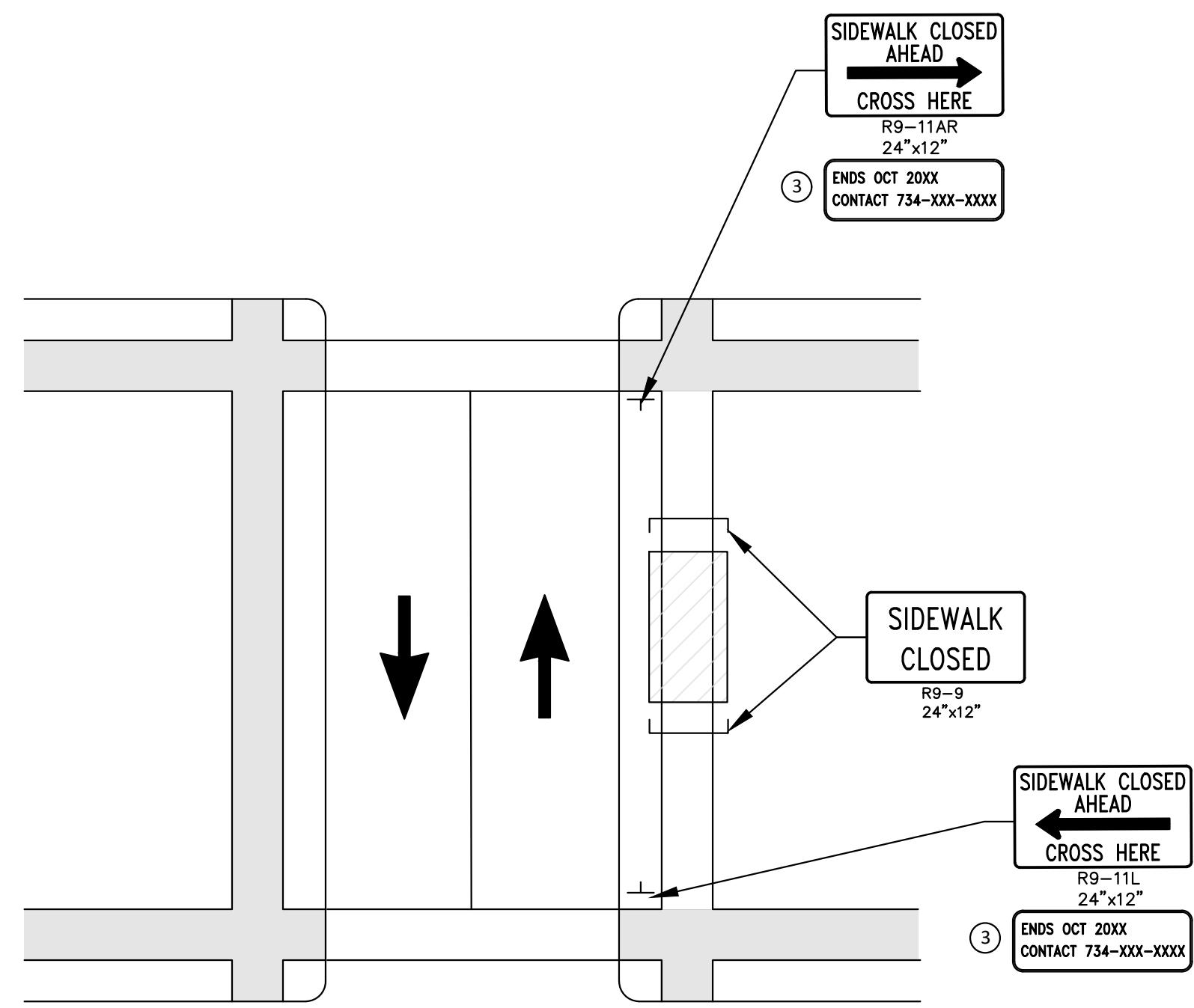
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1667
www.a3gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
**S. MAIN STREET WATER MAIN
REPLACEMENT & RESURFACE PROJECT**
MOT PEDESTRIAN DETAILS 1

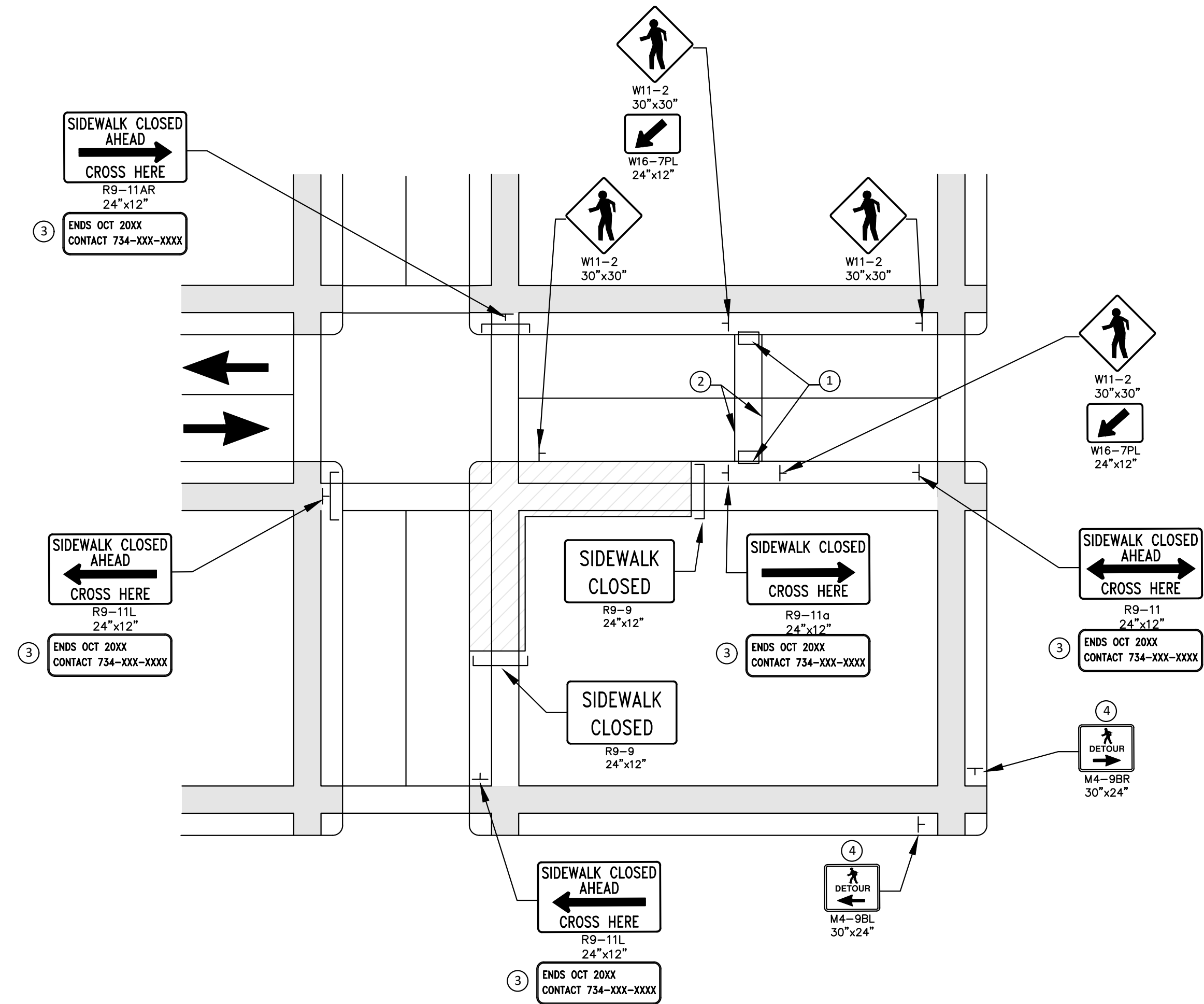
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PROFILE: 1" = 4'
DRAWING No. 2020-038-77

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OTHER SIDE OF STREET DETOUR
(FOR MID-BLOCK CLOSURE)

DETAIL D



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

DETAIL E

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, THE CONTRACTOR SHALL PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE THIS WORK WITH THE ENGINEER A MINIMUM OF 72 HOURS (NOT INCLUDING WEEKENDS & HOLIDAYS) PRIOR TO THE BEGINNING OF WORK THAT REQUIRES A SIDEWALK CLOSURE.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATIONS OR PLACEMENT OF TRAFFIC CONTROL DEVICES HAS CAUSED A SITUATION THAT THE VISIBILITY OF A TRAFFIC CONTROL DEVICE IS REDUCED ENOUGH TO CREATE A HAZARD, THE TRAFFIC CONTROL DEVICES SHALL BE DELINEATED WITH FLAGS OR OTHER ENGINEER-APPROVED DEVICES AT NO ADDITIONAL COST TO THE PROJECT.

SPECIFIC NOTES

- 1 TEMPORARY CURB RAMP WITH DETECTABLE WARNINGS.
- 2 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- 3 AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
- 4 THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHALL BE POSTED AND AN ALTERNATE ROUTE SHALL BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
- 5 TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHALL INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- 6 SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
4. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
5. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.
6. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID FOR INCIDENTAL TO TRAFFIC CONTROL.

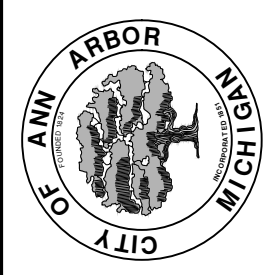
LEGEND

- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▨ WORK AREA
- ▨ PEDESTRIAN CHANNELIZATION DEVICE
- ▨ BARRIER
- ▨ SIDEWALK BARRICADE
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

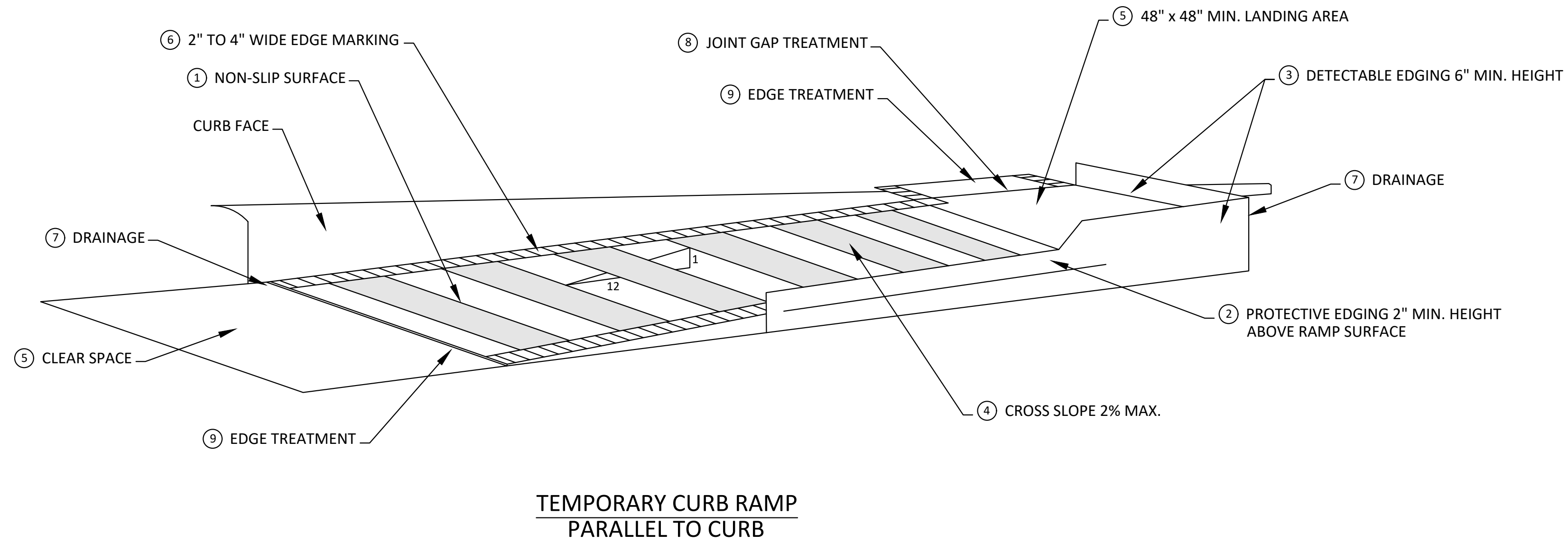
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-1007
734.794.6410
www.aagov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
MOT PEDESTRIAN DETAILS 2

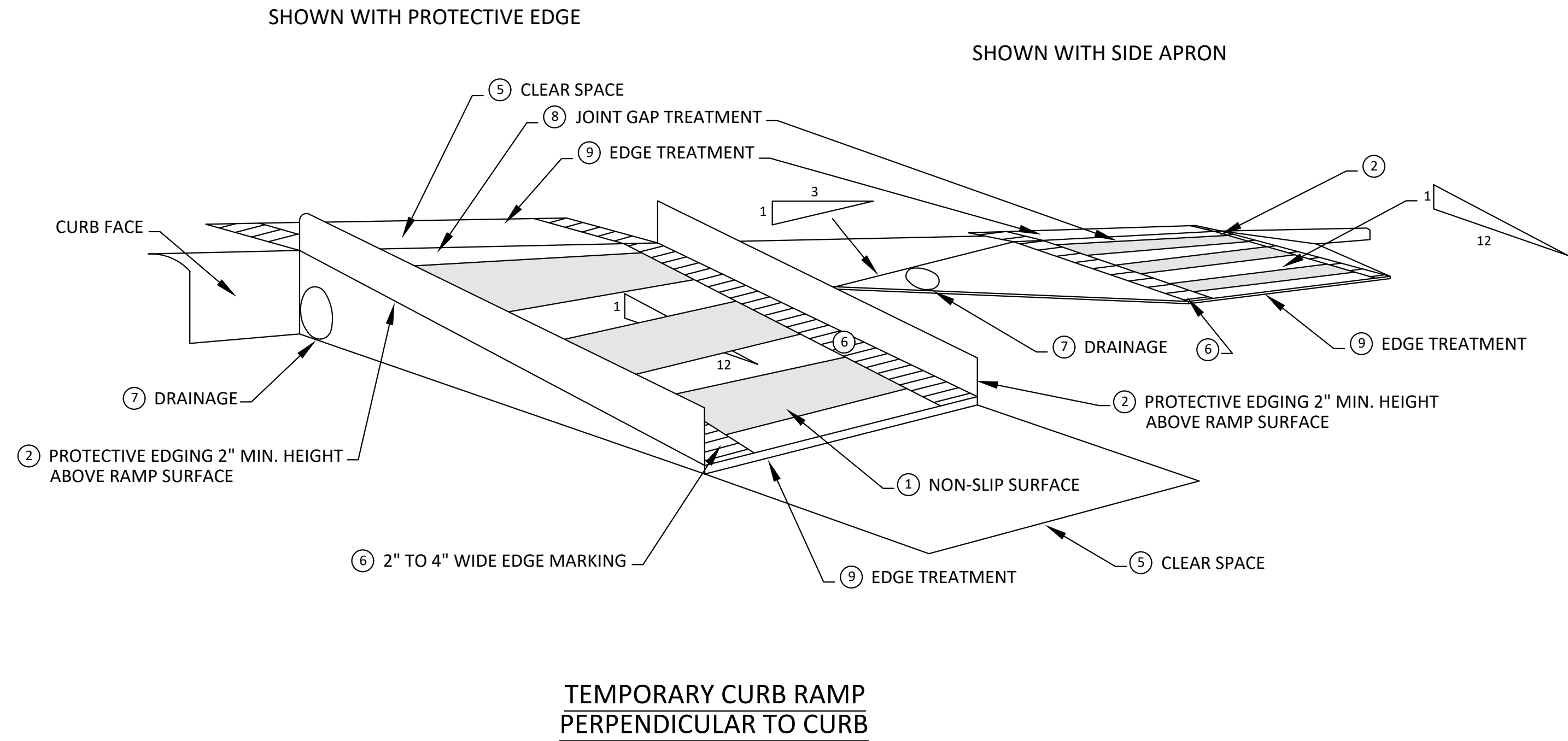
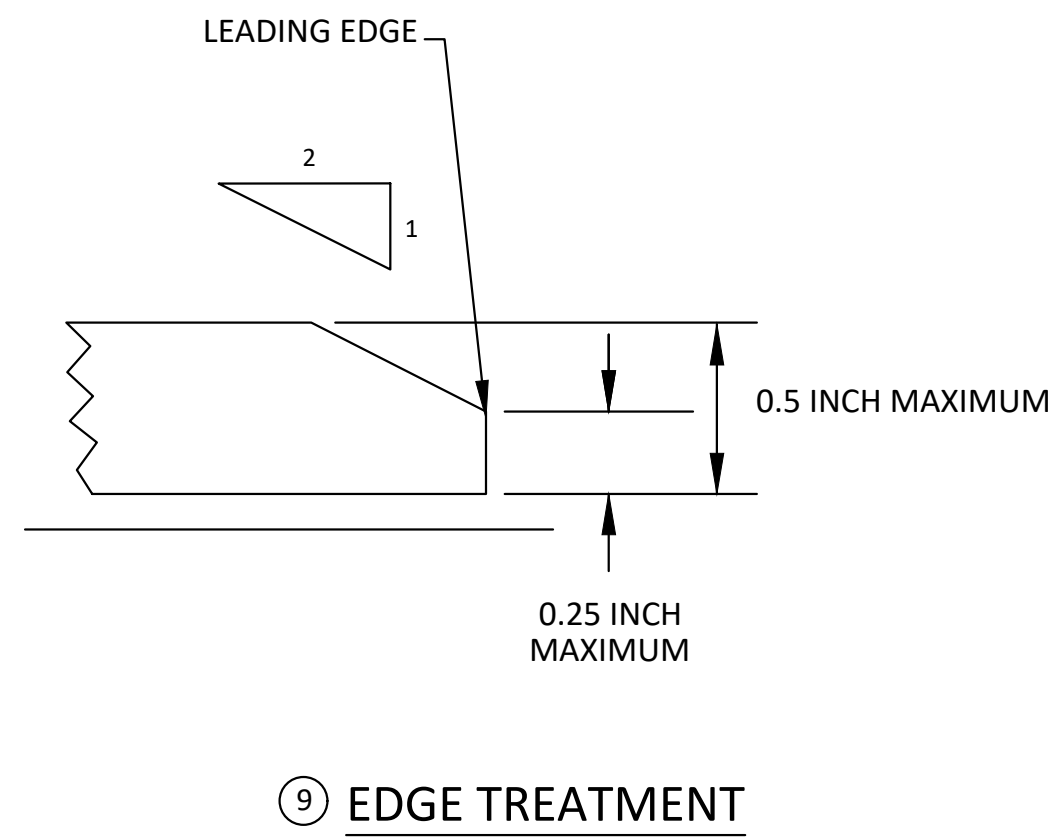
SCALE PLAN: #####
PROFILE: 1" = 4'
DRAWING No. 2020-038-78

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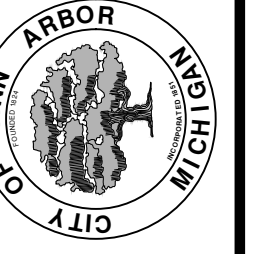
SPECIFIC NOTES

- 1 CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- 2 PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- 3 DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 4 CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 5 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 6 THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- 7 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 8 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 9 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED

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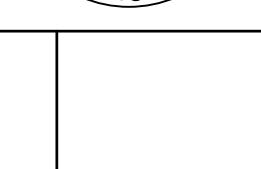


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S. MAIN STREET WATER MAIN REPLACEMENT & RESURFACE PROJECT
MOT PEDESTRIAN DETAILS 3

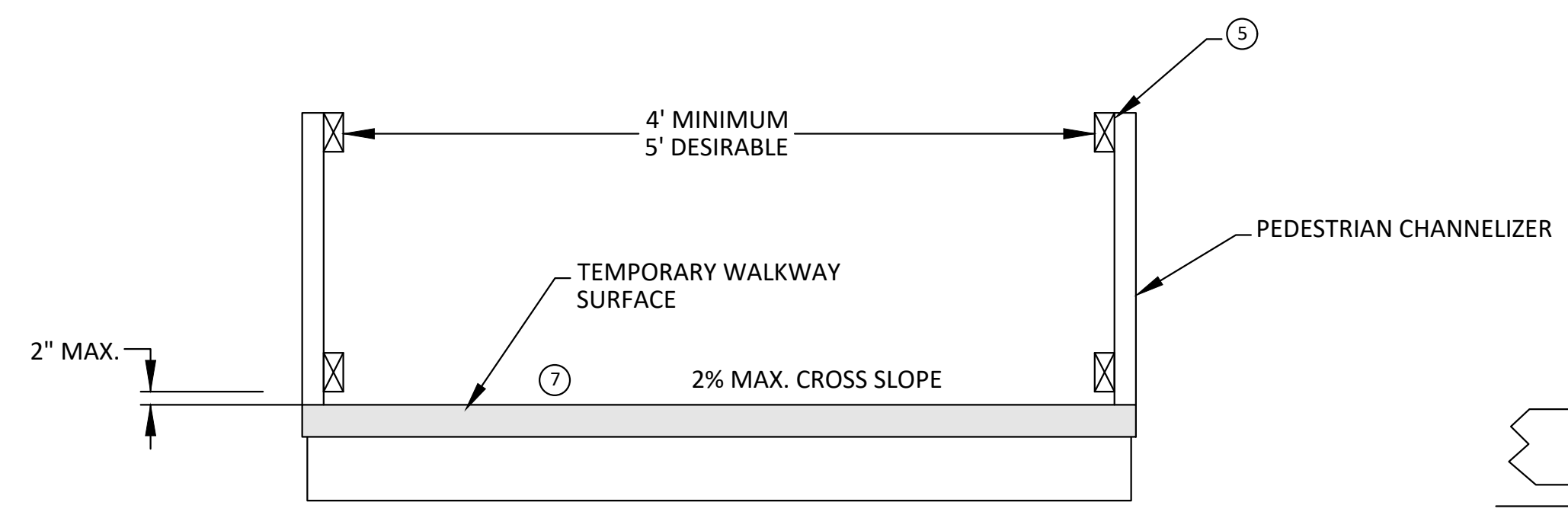
SCALE PLAN: #####
PROFILE: 1" = 4"
DRAWING No. 2020-038-79

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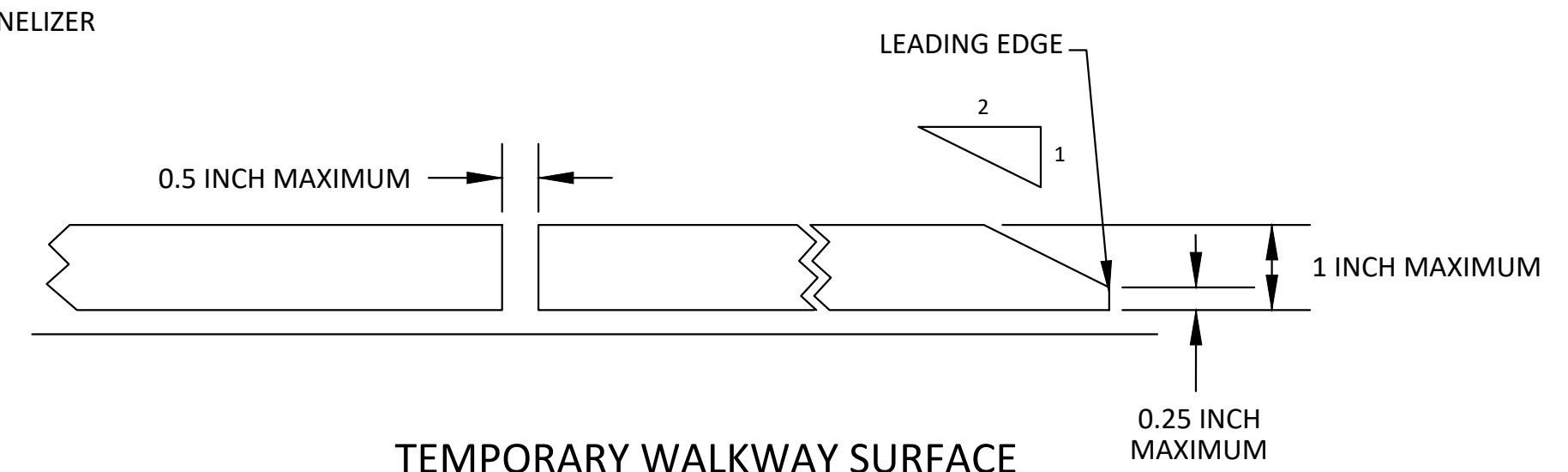
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MOT PEDESTRIAN DETAILS 4



TEMPORARY PEDESTRIAN ACCESS



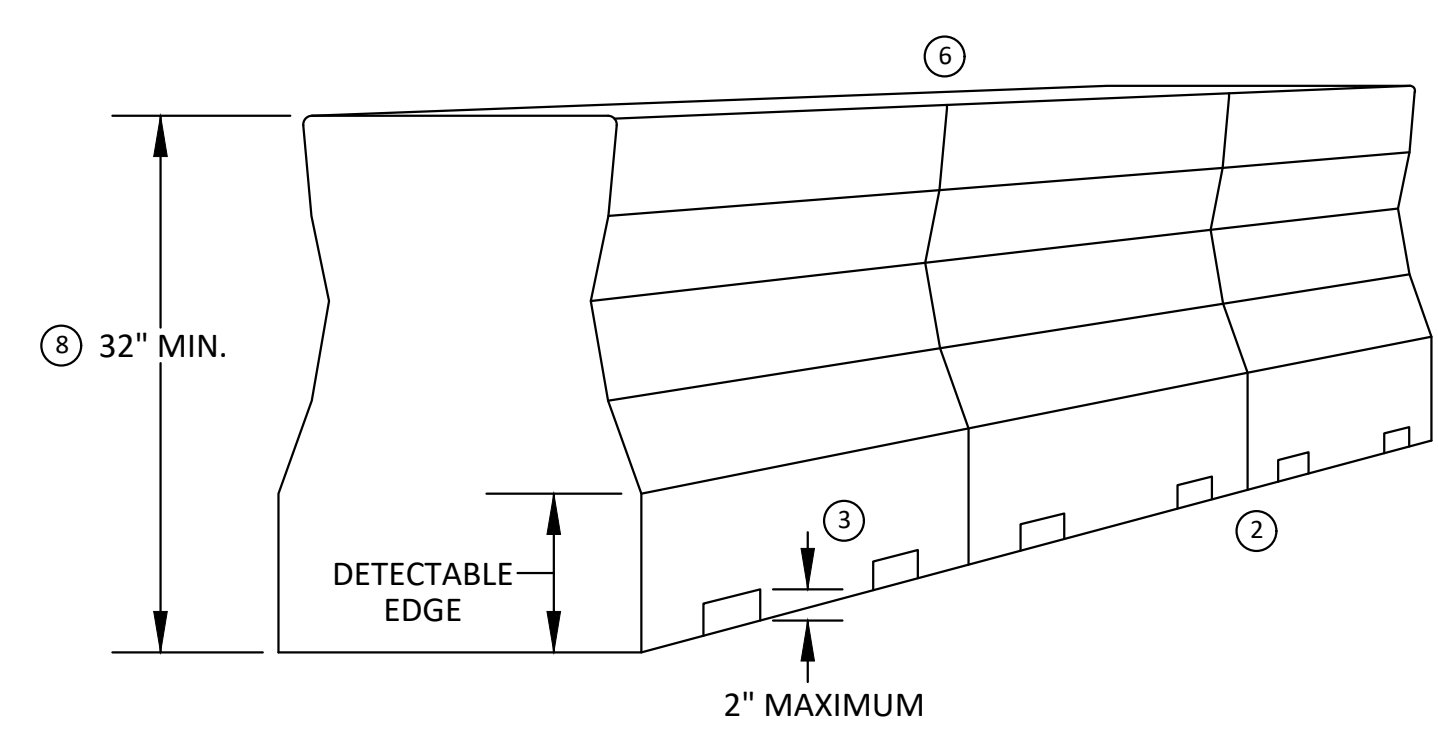
TEMPORARY WALKWAY SURFACE

GENERAL NOTES

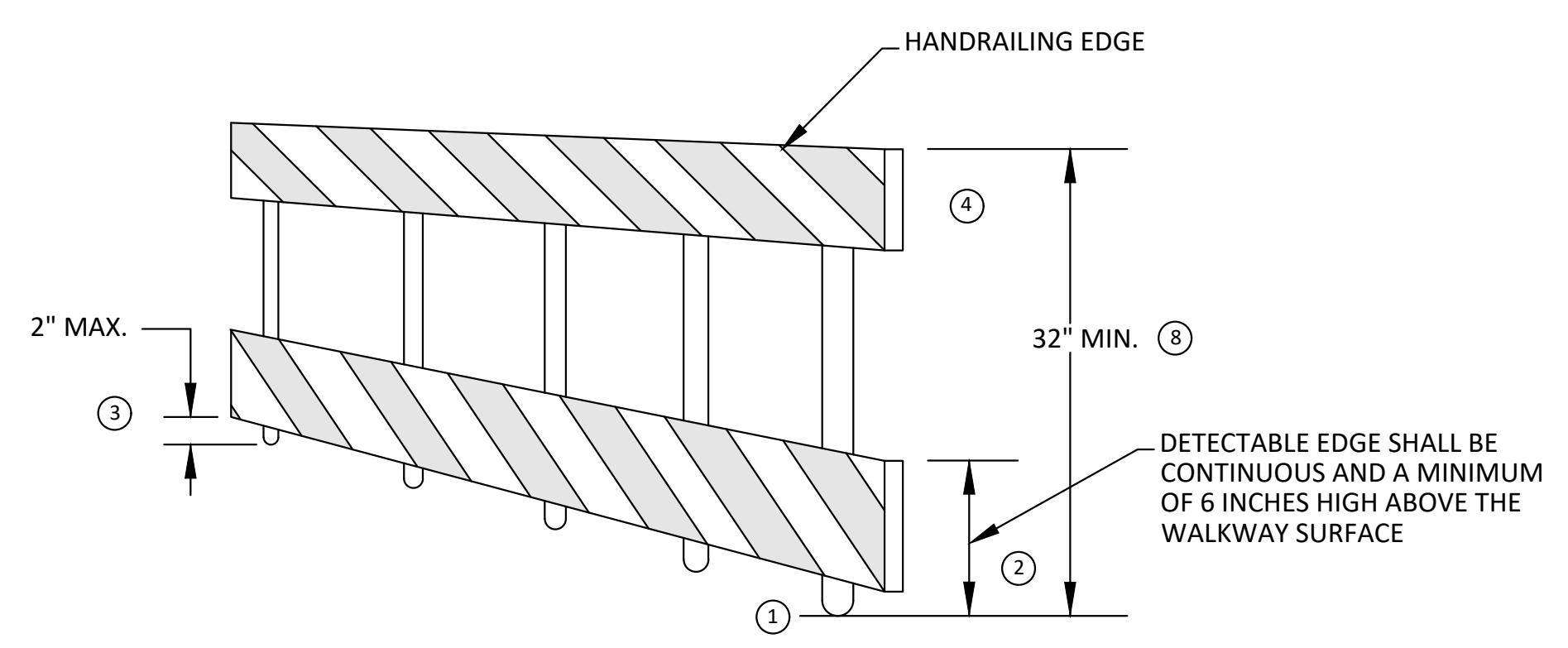
RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.
ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIERS APPLICATION.
BARRICADES SHALL BE PLACED ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE.

SPECIFIC NOTES

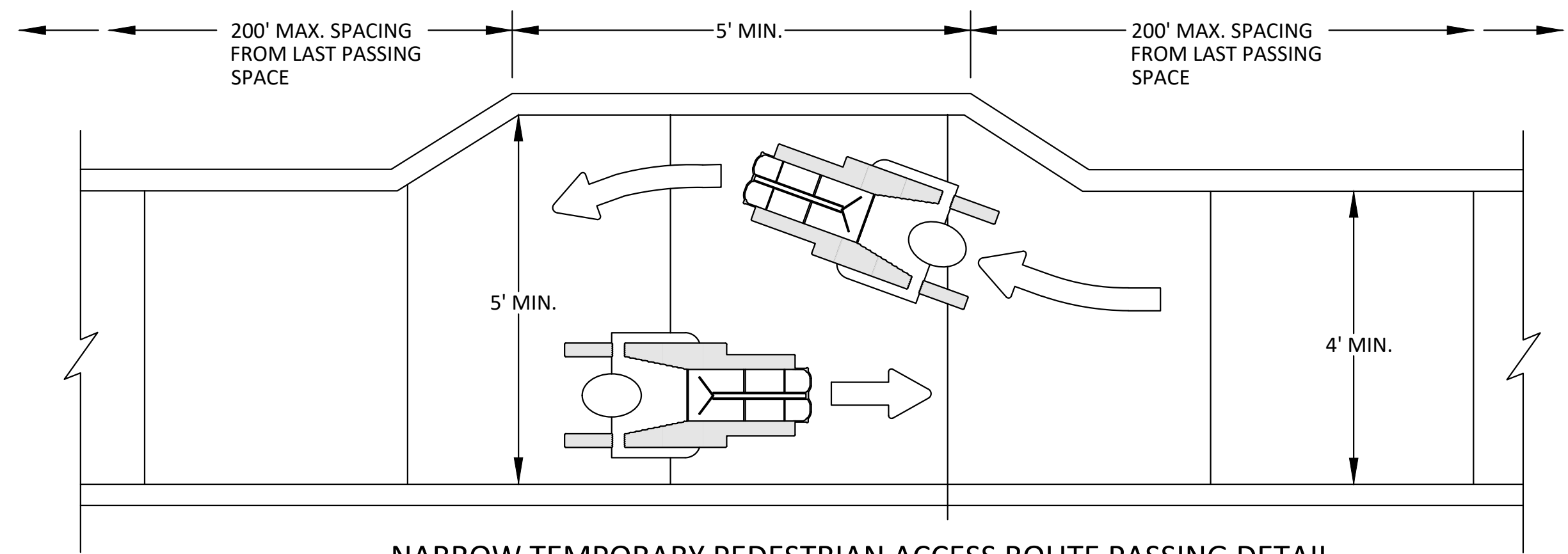
- ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.
- DETECTABLE EDGES SHALL BE CONTINUOUS AND 6 INCHES MIN. HIGH ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
- DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:
 - BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE.
 - BE CONTINUOUS AT A HEIGHT OF 34 TO 38 INCHES ABOVE THE WALKWAY SURFACE, AND
 - BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.
- ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.
- A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT.
- LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES HIGH OR GREATER.



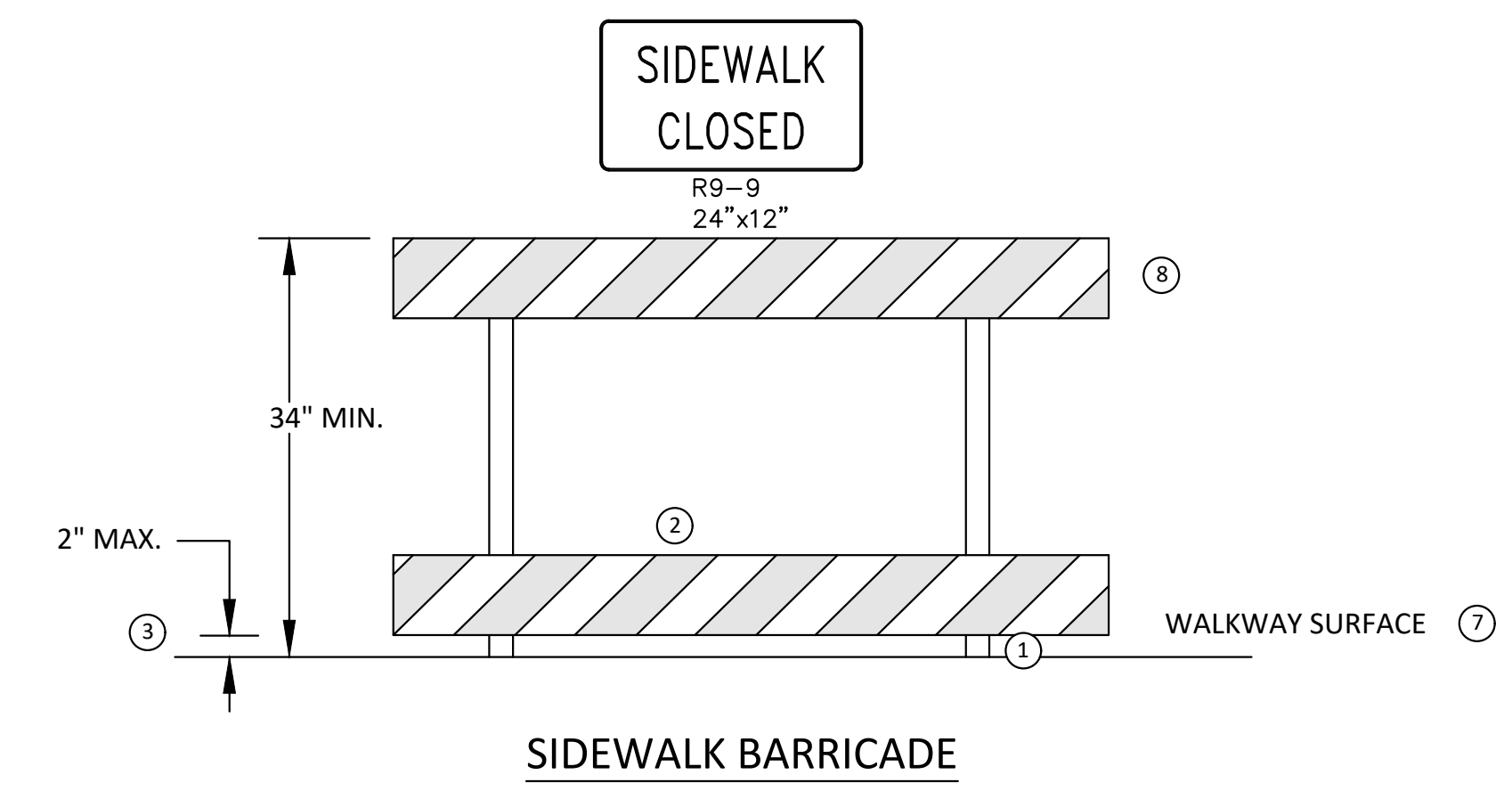
PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

C:\pwork\g1092459\CSP-PLTS-MOT-PED.dwg Dwg Created: 20-Nov-22 - Plot Date: 21-Nov-22