



CITY OF ANN ARBOR ENGINEERING

IN COOPERATION WITH THE
MICHIGAN DEPARTMENT OF TRANSPORTATION
AND
FEDERAL HIGHWAY ADMINISTRATION

SCIO CHURCH ROAD IMPROVEMENT PROJECT

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.

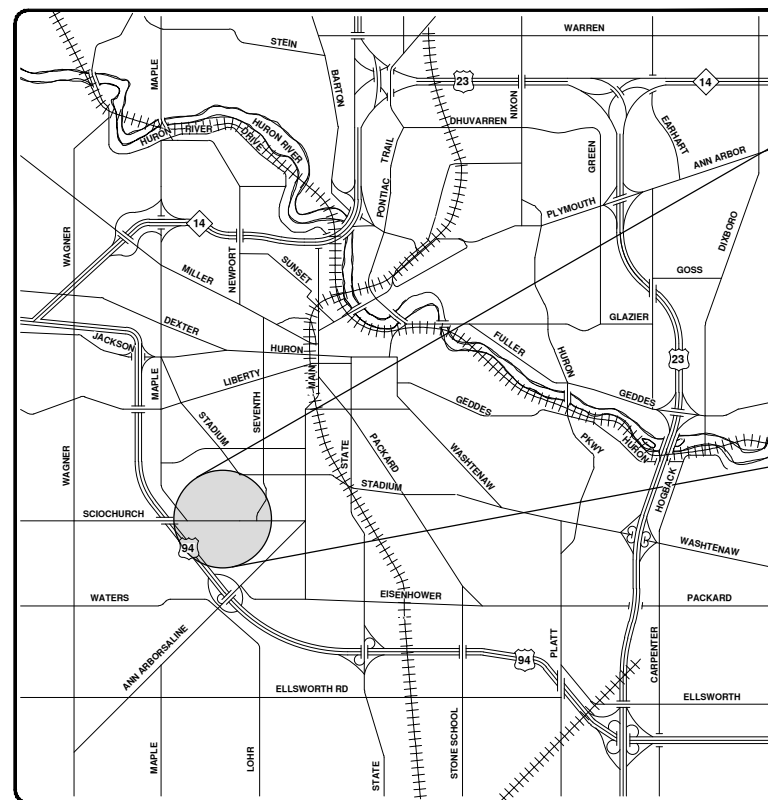
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION (INCLUDING REFERENCED M.D.O.T. PUBLICATIONS) AND THIS PROJECT'S CONTRACT DOCUMENTS.

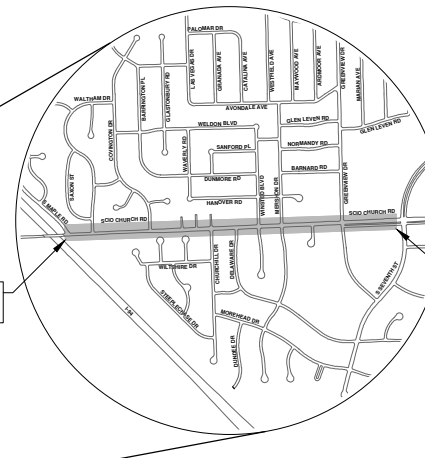
THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE DESIGNED IN ACCORDANCE WITH THE LOCAL AGENCY PROGRAMS 3R GUIDELINES FOR GEOMETRICS ON LOCAL AGENCY PROJECTS 2017 EDITION, 2012 A.A.S.H.T.O. "GUIDE FOR PLANNING, DESIGN, AND OPERATION OF BICYCLE FACILITIES", AND THE TRAFFIC CONTROL IN ACCORDANCE WITH THE 2011 "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

MDOT JOB NO. 205591

MDOT CONTROL SECTION NO. 81000



VICINITY MAP



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1	COVER SHEET
2	STANDARD NOTES AND SESC NOTES
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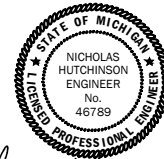
STANDARD PLANS		
CONSTRUCTION OF THE FOLLOWING ITEMS, WHERE CALLED FOR ON THE PLANS, WILL BE CONSTRUCTED ACCORDING TO MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS AS INDICATED.		
REQUIRED ON THIS PROJECT	ITEM OF WORK	STANDARD PLAN NUMBERS
x	COVER B	R-7-F
x	MONUMENT BOXES	R-11-E
x	COVER K	R-15-G
x	COVER Q	R-18-F
x	COVER R	R-20-D
x	SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-J
x	DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK	R-29-I
x	CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
x	INTEGRAL CURB AND INTEGRAL CURB & GUTTER	R-31-F
x	ISOLATION JOINT DETAILS	R-37-B
x	TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)	R-39-K
x	LOAD TRANSFER ASSEMBLIES FOR TRANSVERSE JOINTS	R-40-I
x	LONGITUDINAL PAVEMENT JOINTS	R-41-H
x	TYPICAL JOINT LAYOUTS FOR CONCRETE PAVEMENT	R-42-F
x	LOCATION OF TRANSVERSE JOINTS IN PLAIN CONCRETE PAVEMENT	R-43-J*
x	CONCRETE PAVEMENT REPAIR	R-44-F
x	TEMPORARY CONCRETE BARRIER LIMITED DEFLECTION	R-53-A*
x	GUARDRAIL TYPES A, B, BD, T, TD, MGS-B, & MGS-BD	R-60-J*
x	GUARDRAIL APPROACH TERMINAL TYPES 2B & 2T (SKT)	R-62-H*
x	GUARDRAIL DEPARTING TERMINAL TYPES B, T & MGS	R-66-E*
x	GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80-F*
x	SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
x	SEEDING AND TREE PLANTING	R-100-I*
x	GRADING CROSS-SECTIONS	R-105-D
TRAFFIC AND SAFETY STANDARD PLANS		
x	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A*
x	TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E*
x	IMPACT ATTENUATOR OBJECT MARKER	WZD-150-A*
x	SAND MODULE IMPACT ATTENUATOR (TEMPORARY)	WZD-175-A*
x	PAVEMENT ARROW AND MESSAGE DETAILS	PAVE-900-G
x	LONGITUDINAL LINE TYPES AND PLACEMENT	PAVE-905-E
x	SHARED LANE (SHARROW) MARKING	PAVE-961-C

* SPECIAL DETAIL LOCATED IN PROPOSAL

TRAFFIC DATA	
2022 ANNUAL DAILY TRAFFIC (ADT)	10,117
2042 ADT	11,179
2022 % COMMERCIAL	5.0%
2042 % COMMERCIAL	5.5%
POSTED SPEED	35 MPH
DESIGN SPEED	35 MPH

CITY OF ANN ARBOR
IN COOPERATION WITH THE
MICHIGAN DEPARTMENT OF TRANSPORTATION
AND
FEDERAL HIGHWAY ADMINISTRATION

PROJECT NO. 205591 CITY/TWP ANN ARBOR
LOCATION SCIO CHURCH ROAD, S. MAPLE RD. TO S. SEVENTH ST.
CONTRACT FOR THE CITY OF ANN ARBOR IS PROPOSING 0.825 MILES OF HMA SURFACE REMOVAL AND HMA RESURFACING, ADA SIDEWALK RAMP IMPROVEMENTS, STORM SEWER DRAINAGE IMPROVEMENTS, PAVEMENT MARKINGS AND RESTORATION FROM S. MAPLE RD. TO S. SEVENTH ST.

<p>PREPARED UNDER THE SUPERVISION OF</p>  <p>JANE KATHERINE ALLEN, P.E. PROJECT MANAGER</p> <p>02/19/2021 DATE</p>	<p>CITY APPROVAL</p>  <p>NICHOLAS HUTCHINSON, P.E. CITY ENGINEER</p> <p>02/19/2021 DATE</p>
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SCALE _____ DRAWING NO. 2019029-1 SHEET NO. 1 OF 50



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CCDF
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	CCDF
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	CCDF
00	G.I. SUBMITTAL	10-5-20	CCDF	CCDF

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8667
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT; 2019029; CONTROL SECTION NO. 81000 ; JOB NO. 205591;

GENERAL NOTES:

- 1. 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.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. 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.
4. The location of material stock piles and on-site staging areas shall be approved by the Engineer.
5. For mainline HMA Paving, the width of the mat for each pass of the paver shall be not less than 10.5', nor greater than 16', except as noted in the plans and as directed by the Engineer.
6. All excavation required for roadway grading within the project limits, including proposed curbs, pavement and infiltration trench, shall be included in "Machine Grading, Modified."
7. All excavation required for project grading within the project limits, including proposed sidewalks and sidewalk ramps, shall be included in "Sidewalk Grading" and "Sidewalk Ramp Grading".
8. Excavation and backfill behind curb and gutter shall be included in "Machine Grading, Modified."
9. Excavation and backfill for sidewalks and sidewalk ramps, shall be included in "Sidewalk Grading" and "Sidewalk Ramp Grading".
10. 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.
11. All Structures shall receive new castings, as specified on the Standard Casting Schedule.
12. All fittings, hydrants, valves and castings removed during construction shall become the property of the City of Ann Arbor.

- 13. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structures sizes and/or types.
14. Where pipes of different sizes or materials are joined, Engineer approved flexible couplings with stainless steel shear rings shall be used.
15. 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.
16. In areas where edge drain cannot be installed in accordance with the details, the edge drain shall be installed at the depth as indicated on the plans, or as directed by the Engineer.
17. Existing street name signs, guide, bus stop, and regulatory signs which conflict with the proposed construction shall be removed prior to construction.
18. All curb, sidewalk, driveway approach removals shall be approved by the Engineer before the work is performed.
19. Place 4" (minimum) thickness Class II Granular Material compacted to 95% of its max. dry density under concrete sidewalk as shown on the details.
20. Place 8" (minimum) MDOT Dense Graded Aggregate 21AA, compacted to 95% of its max. dry density under drive approaches.
21. Prior to placing the adjacent paving pass on the leveling and wearing courses of HMA, the Contractor shall cut and remove 6" to 8" of the previously placed pavement by means of a coultter wheel.

GENERAL

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

- 1. 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.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR.
4. 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.
5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
6. 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.
7. 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.
8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR OTHER METHODS APPROVED BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT.
11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES.
12. TRAP PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

- 1. 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.
2. 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:

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES.
1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL.
1.6. COMPLETE ALL FINE GRADING.
1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
1.9. CLEAN OUT STORM SEWER SYSTEMS.
1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
1.11. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION.

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

- 1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING, AND MULCH = \$35,000.

ESTIMATE OF EXCAVATION AND FILL FROM EXISTING TO FINAL GRADE: EXCAVATION = 400 CY, FILL = 250 CY

ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN: BbB - BLUNT LOAM - 2% TO 6% SLOPES; CpA - CONOVER BROOKSTON LOAMS - 0% TO 2% SLOPES; Pe - PEWAMO CLAY LOAM - 0% TO 2% SLOPES; StB - ST. CLAIR CLAY LOAM, 2% TO 6% SLOPES; WaA - WAWASEE LAOM, 2% TO 6% SLOPES

GROUND DISTURBING ACTIVITIES NOTES

- 1. NO KNOWN EMR HIBERNACULA ARE DESTROYED OR DISTURBED AT ANY TIME OF THE YEAR. BECAUSE THESE AREAS ARE OFTEN NOT KNOWN:
1.1. WHEN OPERATING IN POTENTIAL HIBERNATION AREAS (E.G. EMR WETLANDS AND ADJACENT AREAS WITH CRAFISH BURROWS, RODENT HOLES, SMALL MAMMAL BURROWS, ECT.), WORK IS CONDUCTED WITHIN THE ACTIVE SEASON (JUNE-AUGUST) TO AVOID WHEN SNAKES ARE LIKELY TO BE PRESENT.
2. GRADING
2.1. WHEN WORKING DURING EMR ACTIVE SEASON, USE EXCLUSIONARY FENCING TO SEPARATE EMR HABITAT FROM THE WORK SITE.
2.2. ANY AREAS USING EXCLUSIONARY FENCING SHOULD FIRST BE "CLEARED" BY A QUALIFIED INDIVIDUAL BEFORE BEGINNING CONSTRUCTION ACTIVITIES.
2.3. REVEGETATE ALL DISTURBED HABITAT WITH APPROPRIATE PLANT SPECIES.
2.4. AVOID SPREAD OF INVASIVE SPECIES INTO EMR HABITAT.
3. TRENCHING/FILL/DITCHING
3.1. AVOID TRENCHING IN EMR WETLANDS WHEN POSSIBLE.
3.2. ENSURE ALL IMPORTED FILL MATERIAL IS FREE FROM CONTAMINANTS OR INVASIVE SPECIES.
3.3. CONDUCT WORK WELL WITHIN THE ACTIVE SEASON (JUNE-AUGUST) WHEN SNAKES ARE NOT LIKELY TO BE NEAR HIBERNATION SITES.
3.4. FOR TIER 1, USE EXCLUSIONARY FENCING AROUND THE AREA TO BE DISTURBED.
3.5. FOR TIER 1, CONTACT THE SERVICE FOR WORK GREATER THAN 200' FOR PROJECT SPECIFIC RECOMMENDATIONS.

SITE ACCESS NOTES

- 1. LIMIT OPERATING VEHICLES/EQUIPMENT, CLEARING TREES, ETC., IN EMR HABITAT TO THE INACTIVE SEASON WHEN THE GROUND IS FROZEN.
2. STRICTLY CONTROL AND MINIMIZE VEHICLE ACTIVITY IN KNOWN/PRESUMED OCCUPIED EMR HABITAT TO THE EXTENT POSSIBLE.
3. DRIVERS SHOULD BE AWARE OF THE POTENTIAL DANGER TO THE DRIVER OF SHEERVING TO INTENTIONALLY DRIVE OVER SNAKES AS WELL AS LEGAL AND CONSERVATION IMPLICATIONS.

GENERAL BEST MANAGEMENT PRACTICES NOTES

- 1. USE WILDLIFE-SAFE MATERIALS FOR EROSION CONTROL AND SITE RESTORATION.
2. TO INCREASE HUMAN SAFETY AND AWARENESS OF EMR, THOSE IMPLEMENTING THE PROJECT SHOULD FIRST WATCH MONR'S "60-SECOND SNAKES: THE EASTERN MASSASAUGA RATTLESNAKE" VIDEO OR REVIEW THE EMR FACTSHEET BY CALLING 517-351-2555.
3. REQUIRE REPORTING OF ANY EMR OBSERVATIONS, OR OBSERVATION OF ANY OTHER LISTED THREATENED OR ENDANGERED SPECIES, DURING PROJECT IMPLEMENTATION TO THE SERVICE WITHIN 24 HOURS.

HYDROLOGY IMPACTS NOTES

- 1. WATER LEVELS IN KNOWN/PRESUMED OCCUPIED HABITATS SHOULD NOT BE ARTIFICIALLY MANIPULATED DURING THE INACTIVE SEASON.
2. WHERE APPLICABLE, WATER LEVELS SHOULD BE ALLOWED TO FLOW NATURALLY AND NOT BE ARTIFICIALLY STABILIZED.

HEAVY EQUIPMENT NOTES

- 1. SITE STAGING AREAS FOR EQUIPMENT, FUEL, MATERIALS, AND PERSONNEL AT LEAST 100 FEET FROM THE WATERWAY, IF AVAILABLE, TO REDUCE POTENTIAL FOR SEDIMENT AND HAZARDOUS SPILLS ENTERING THE WATERWAY.
1.1. FOLLOW SPILL RESPONSE PLAN
1.2. CALL MDEQ AND THE NATIONAL RESPONSE CENTER (800-424-8802), AND THE SERVICE'S MICHIGAN ECOLOGICAL SERVICES FIELD OFFICE (517-351-2555) TO REPORT THE RELEASE.
2. DO NOT USE LARGE EQUIPMENT OR PERFORM EARTH-MOVING ACTIVITIES, WATER WITHDRAWAL AND DISCHARGE FOR HYDROSTATIC TESTING, OR OTHER ACTIVITIES THAT SUBSTANTIALLY AFFECT THE GROUND OR WATER LEVELS IN POTENTIAL EMR HIBERNACULA AREAS.

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

Table with 2 columns: PERMIT and ISSUING AUTHORITY. Rows include LANE CLOSURE PERMIT, "NO PARKING" SIGNS PERMIT, GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT, and RIGHT-OF-WAY PERMIT. Issuing authorities include CITY OF ANN ARBOR ENGINEERING and CUSTOMER SERVICE.

CONTACT INFORMATION

Table with 3 columns: PUBLIC UTILITIES, OWNER, and CONTACT. Rows include WATER, SANITARY, STORM, FORESTRY, SIGNS SIGNALS STREET LIGHTS, GAS, ELECTRIC, CABLE, PHONE, FIBER OPTIC, and STREET LIGHTING. Contact information includes names and phone numbers for various utility providers.

PROJECT NAME BENCHMARKS

Table with 3 columns: BM #, ELEV, and DESCRIPTION. Lists 14 benchmarks with elevations ranging from 927.016 to 931.520 and descriptions of their locations relative to Scio Church Rd and other landmarks.

Vertical sidebar containing logos for City of Ann Arbor and Michigan, project title "CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCIO CHURCH ROAD IMPROVEMENT PROJECT", scale, drawing number 2019029-2, and sheet number 2 OF 50.

R:\2019029 Scio Church Imp\Plan Production\2019029Cov.dwg - a2 standard bw.stb - Plot Date: 5/20/2022 12:28:22 PM

EXISTING LEGEND

- EX = EXISTING
- FIRE HYDRANT
 - GATE VALVE IN BOX
 - GATE VALVE IN WELL
 - STOP BOX
 - WATER VAULT
 - WELL
 - CATCH BASIN (SQ)
 - CATCH BASIN (RD)
 - STORM MANHOLE
 - NON-CURB CATCH BASIN (SQ)
 - END SECTION
 - SANITARY MANHOLE
 - CLEAN-OUT
 - POST
 - PEDESTRIAN SIGNAL
 - SIGN
 - HAND HOLE
 - ORNAMENTAL LIGHT
 - FLOOD LIGHT
 - UNKNOWN MANHOLE
 - TELEPHONE MANHOLE
 - TELEPHONE RISER
 - GAS VALVE
 - GAS VENT
 - GAS BOX
 - ELECTRICAL RISER
 - TRANSFORMER
 - UTILITY POLE
 - LAMP POLE
 - GUY ANCHOR
 - GUY POLE
 - MONITORING WELL
 - MAILBOX
 - SOIL BORING
 - TRAVERSE POINT
 - BENCH MARK
 - IRON PIPE
 - MON BOX

- WATER MAIN
- WATER MAIN ABANDONED
- STORM SEWER
- STORM SEWER ABANDONED
- SANITARY SEWER
- SANITARY SEWER ABANDONED
- GAS MAIN
- GAS MAIN (DEAD)
- ELECTRICAL OVER HEAD
- ELECTRICAL UNDER GROUND
- e duct bank
- ELECTRICAL DUCT BANK
- TELEPHONE OVER HEAD
- TELEPHONE UNDER GROUND
- t duct bank
- TELEPHONE DUCT BANK
- CABLE TV OVER HEAD
- CABLE TV UNDER GROUND
- FIBER OPTIC
- FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- CONTOUR MAJOR 800
- CONTOUR MINOR 799
- EDGE OF WATER
- FLOODPLAIN
- FENCE
- GRAVEL
- GUARDRAIL
- STONE WALL
- R.O.W.
- TREELINE
- WETLAND
- EDGE OF BRUSH
- HEDGE


- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)
CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10

PROPOSED LEGEND

- PROP = PROPOSED
- HYDRANT (PLAN)
 - WATER GATE WELL
 - REDUCER
 - WATER GATE VALVE
 - WATER STOP BOX
 - WATER VAULT
 - INLET
 - INLET JUNCTION CHAMBER
 - ROUND CATCH BASIN
 - STORM MANHOLE
 - DRAIN ARROW
 - FLARED END SECTION
 - SANITARY MANHOLE
 - CLEAN-OUT
 - BARREL
 - SIGN
 - PUSH BUTTON
 - HAND HOLE

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE (EXCLUSIONARY FENCE)
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR 800
- CONTOUR MINOR 799
- WATER EASEMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION
- LIMIT OF GRADING
- STONE WALL

- DETECTABLE WARNING
- ASPHALT
- CONCRETE
- SIDEWALK
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED



Know what's below.
Call before you dig.

	CW	JKA	JKA	JKA	JKA	CHECKED
	CCDF	CCDF	CCDF	CCDF	CCDF	DRAWN
	05-20-22	09-07-21	07-23-21	10-5-20	DATE	

03 FINAL RE-SUBMITTAL


02 RESPONSE TO FINAL MDT REVIEW

01 MDT FINAL SUBMITTAL

00 G.I. SUBMITTAL

REV. DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
 301 EAST HURON STREET
 P.O. BOX 8667
 ANN ARBOR MI 48106-8667
 www.a2gov.org

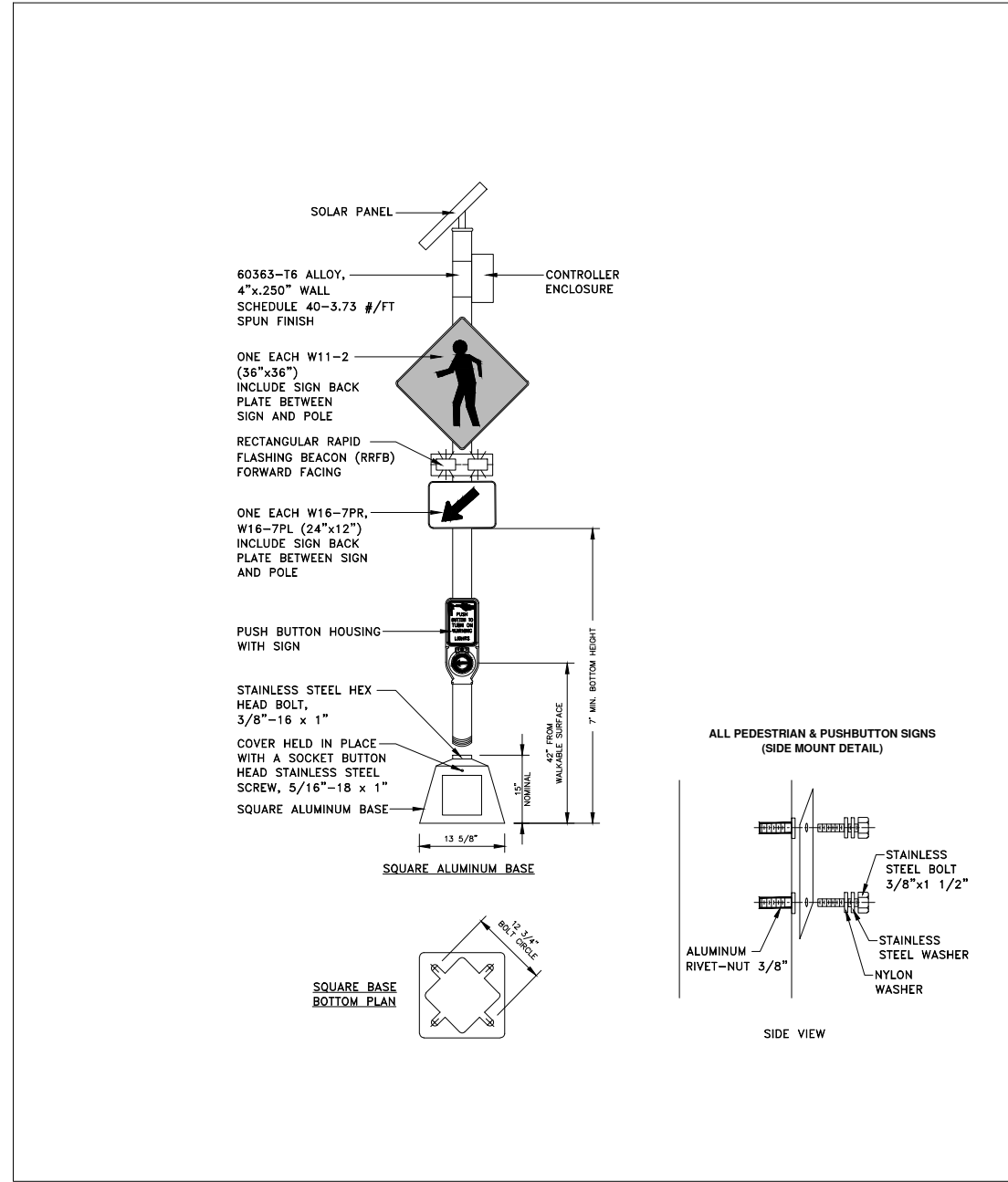


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT

SCALE: NTS

DRAWING No. **2019029-3**

SHEET No. **3 OF 50**



RECTANGULAR RAPID FLASHING BEACON ASSEMBLY

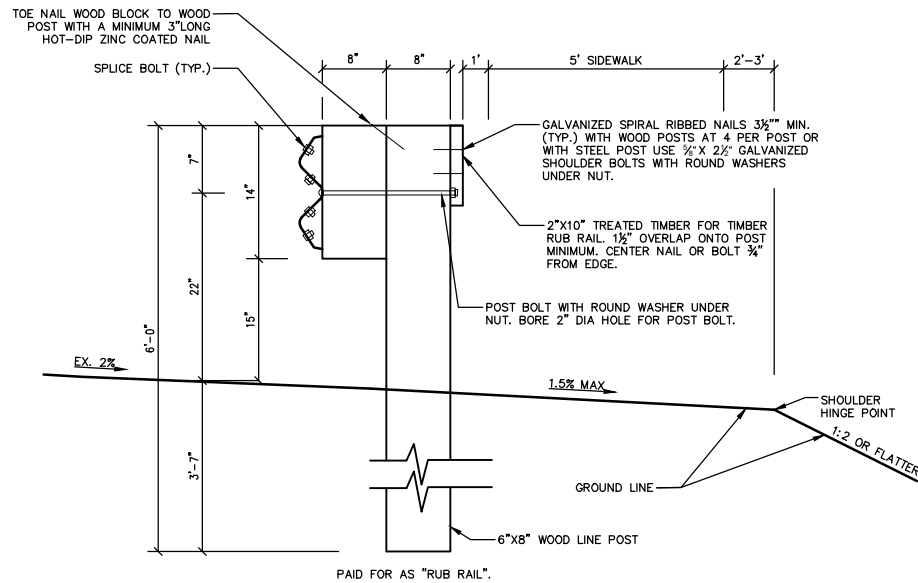


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02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
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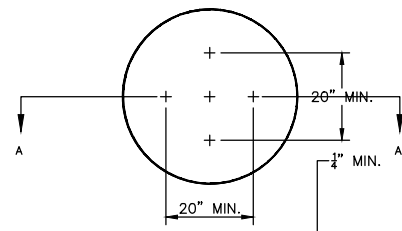
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
SCALE: NTS
DRAWING No. 2019029-4
DETAILS

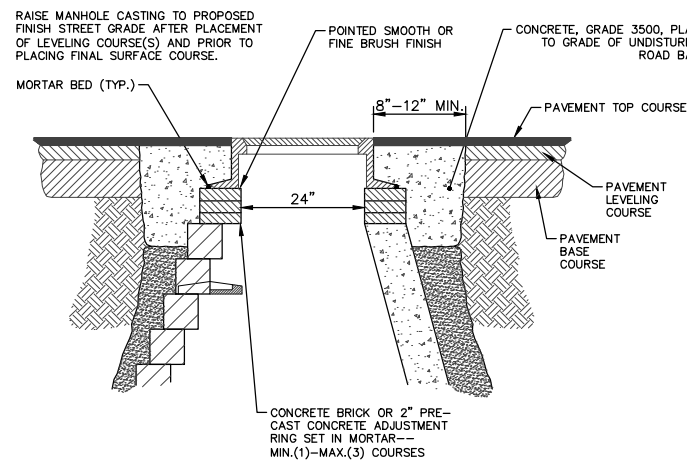


TIMBER RUB RAIL DETAIL



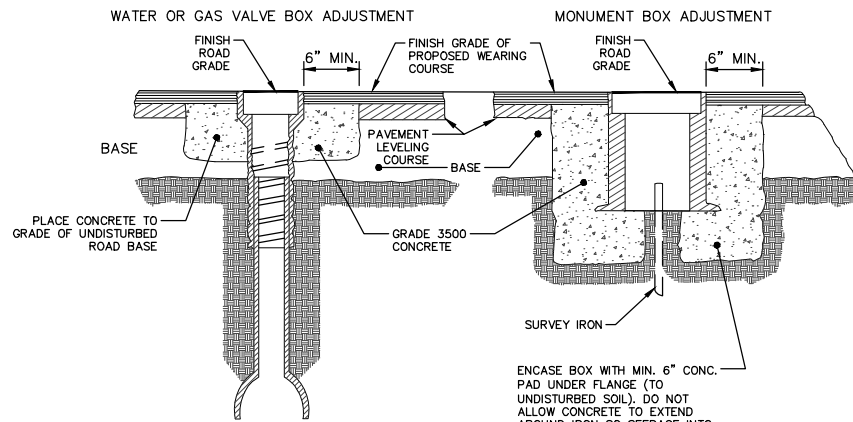
NOTE: PLATE MAY BE CIRCULAR, SQUARE OR RECTANGULAR

STRUCTURE PLATE SD-GU-8



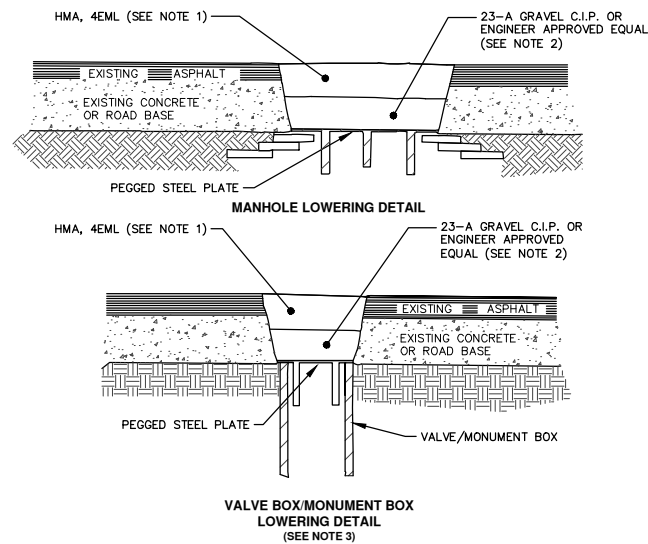
NOTE: IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.

MANHOLE CASTING ADJUSTMENT SD-GU-6



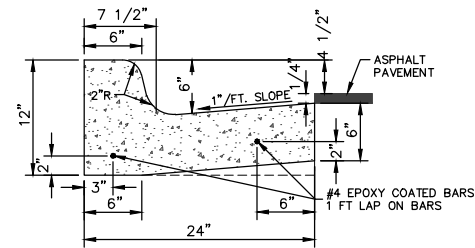
- NOTES:
1. GAS VALVE BOXES TO BE ADJUSTED BY THE GAS COMPANY.
 2. PLACE CENTER OF [MONUMENT] BOX OVER SURVEY IRON.
 3. RAISE CASTING TO PROPOSED FINISH STREET GRADE AFTER PLACEMENT OF LEVELING COURSE(S) AND PRIOR TO PLACING FINAL SURFACE COURSE.

VALVE/MONUMENT BOX ADJUSTMENT SD-GU-7



- NOTES:
1. IF TRAFFIC IS TO BE MAINTAINED ON THE ROADWAY BEFORE OR AFTER THE COLD MILLING OPERATION, THE STRUCTURE SHALL BE LOWERED TO THE EXTENT THAT A MINIMUM OF THREE(3) INCHES ASPHALT MATERIAL HMA, 4EML OR ENGINEER APPROVED EQUAL, REMAINS TO SUPPORT TRAFFIC.
 2. IF THE ROADWAY BEING MILLED IS CLOSED TO TRAFFIC, THE STRUCTURE SHALL BE LOWERED SUCH THAT THE STEEL PLATE IS A MINIMUM OF FOUR(4) INCHES BELOW THE PROPOSED ROAD GRADE AND THE RESULTING VOID SHALL BE FILLED WITH COMPACTED 23-A GRAVEL OR ENGINEER APPROVED EQUAL.
 3. WHERE A MONUMENT IS TO BE LOWERED, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS WRITTEN NOTICE SO THAT THE MONUMENT CAN BE PROPERLY WITNESSED OR PROTECTED. FAILURE TO DO SO SHALL RESULT IN THE ENGINEER REPLACING SAID MONUMENT AT THE CONTRACTORS EXPENSE.

MANHOLE & VALVE/MONUMENT BOX LOWERING SD-GU-9

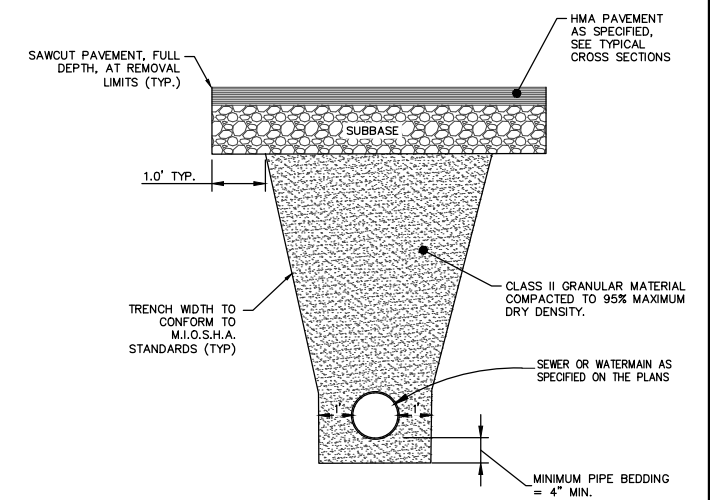


- NOTES:
3. BARRIER CURB AND GUTTER ON ASPHALT STREETS SHALL CONFORM TO THIS DETAIL. PAID FOR AS "CURB AND GUTTER, CONC, DET F4, SPECIAL".
 4. BARRIER CURB AND GUTTER ON CONCRETE STREETS SHALL CONFORM TO MDOT CURB AND GUTTER DETAIL F3.

CONCRETE CURB AND GUTTER SD-R-1

Pay Item	Type of Casting	MDOT		
		Designation	EJ Casting No.	Neenah Casting No.
Dr Structure Cover, Type Q	Storm Manhole and Water Gate Well Frame and Cover	Q	10402 w/1040A Logo Cover*	R-1642 w/Type C Cover*
Dr Structure Cover, Type K	Barrier Curb inlet frame and Cover	K	70452 w/7050 T2 Back w/7045 M2 Gate	R-3031-9 w/Type 5 Gate
Dr Structure Cover, Type Q	Sanitary Manhole Frame and Cover	Q	1040-129T w/ 1040AGS Logo Cover*	

STANDARD CASTING SCHEDULE



- UNDERDRAIN TRENCH NOTES
1. FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL PAVEMENT CROSS-SECTION(S).
 2. TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.
 3. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.

TRENCH DETAIL FOR UNDERDRAIN SD-TD-10 (UNDER HMA PAVEMENT)



Know what's below. Call before you dig.

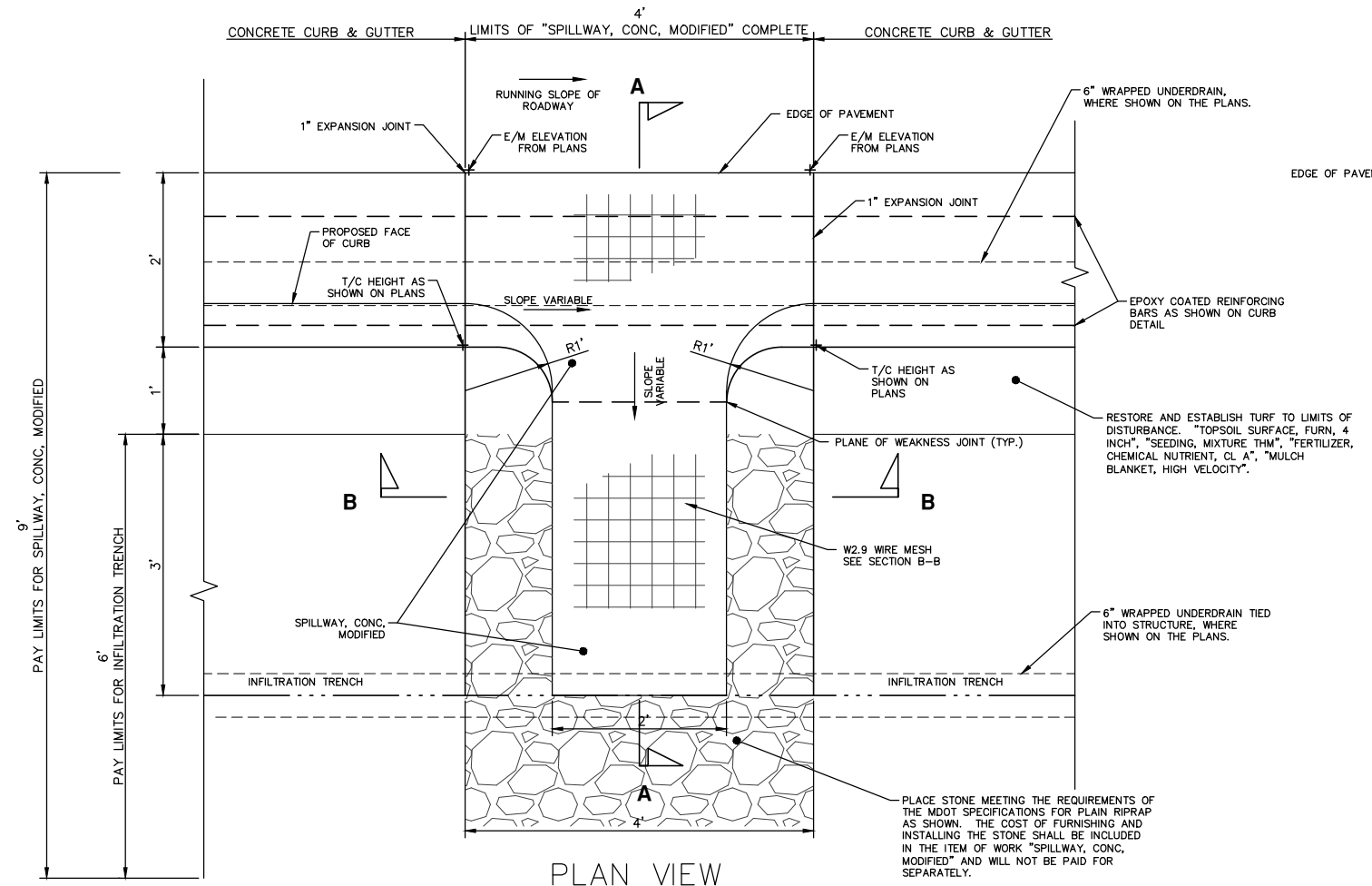
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02	09-07-21	RESPONSE TO FINAL MDOT REVIEW
01	07-23-21	MDOT FINAL SUBMITTAL
00	10-5-20	G.I. SUBMITTAL

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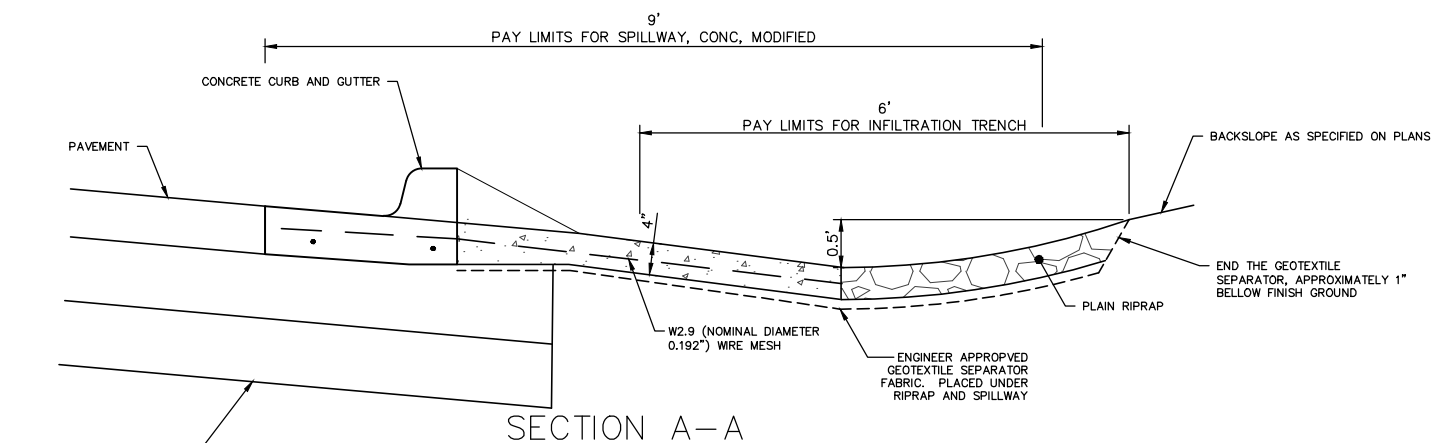


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SCIO CHURCH ROAD IMPROVEMENT PROJECT
SCALE: N/A
DRAWING NO. 2019029-5
SHEET No. 5 OF 50

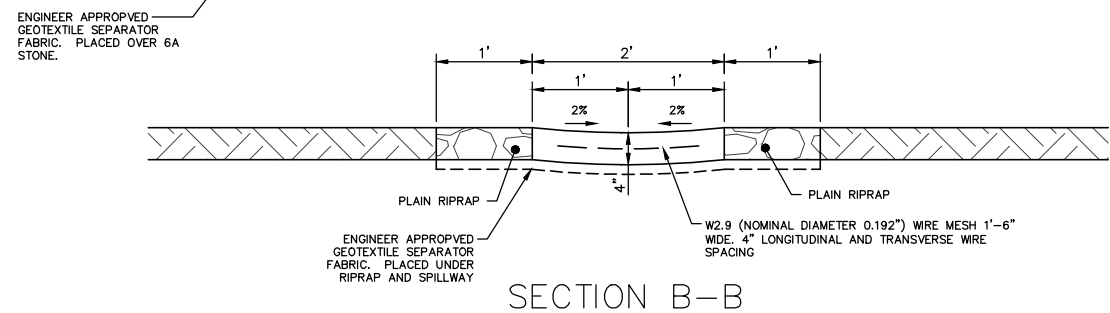
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PLAN VIEW



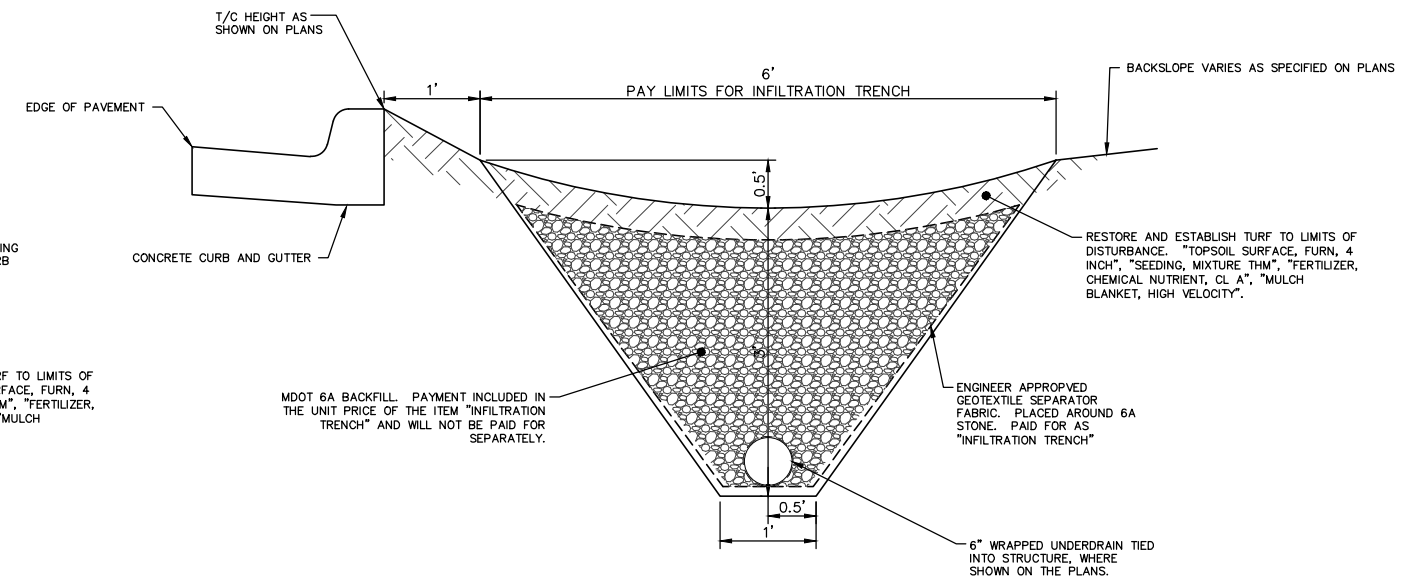
SECTION A-A



SECTION B-B

CONCRETE SPILLWAY DETAIL

PAID FOR AS, "SPILLWAY, CONC, MODIFIED"



INFILTRATION TRENCH DETAIL



REV.	DATE	DESCRIPTION	DRAWN	CHECKED
03	05-20-22	FINAL RE-SUBMITTAL	CCDF	CW
02	09-07-21	RESPONSE TO FINAL MDOT REVIEW	CCDF	JKA
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00	10-5-20	G.I. SUBMITTAL	CCDF	JKA

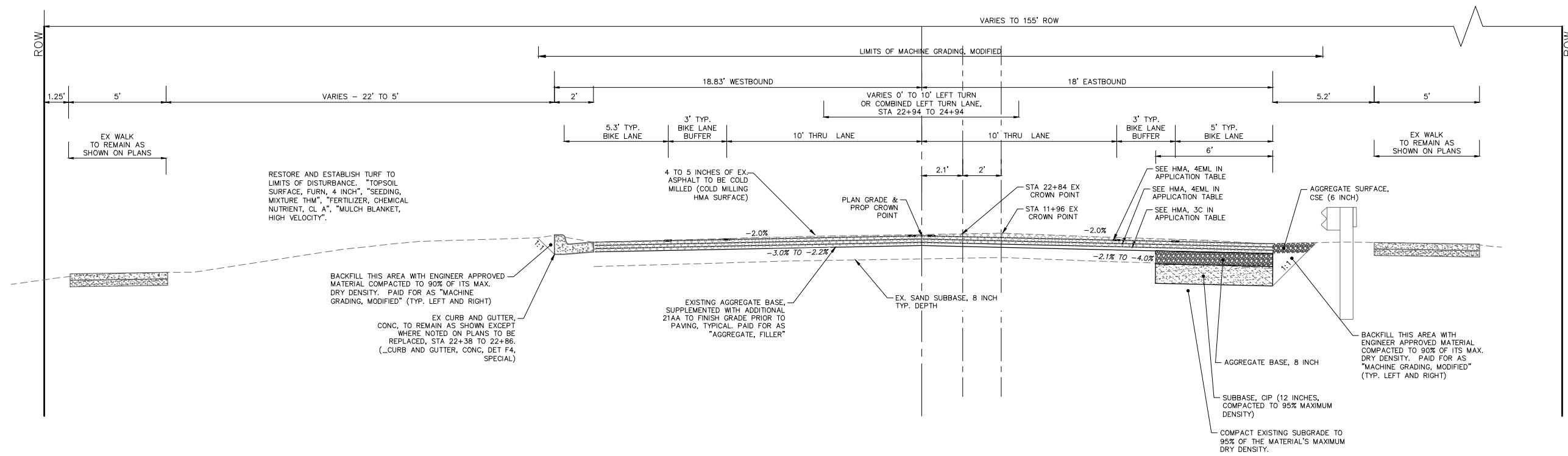
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
INFILTRATION TRENCH DETAIL

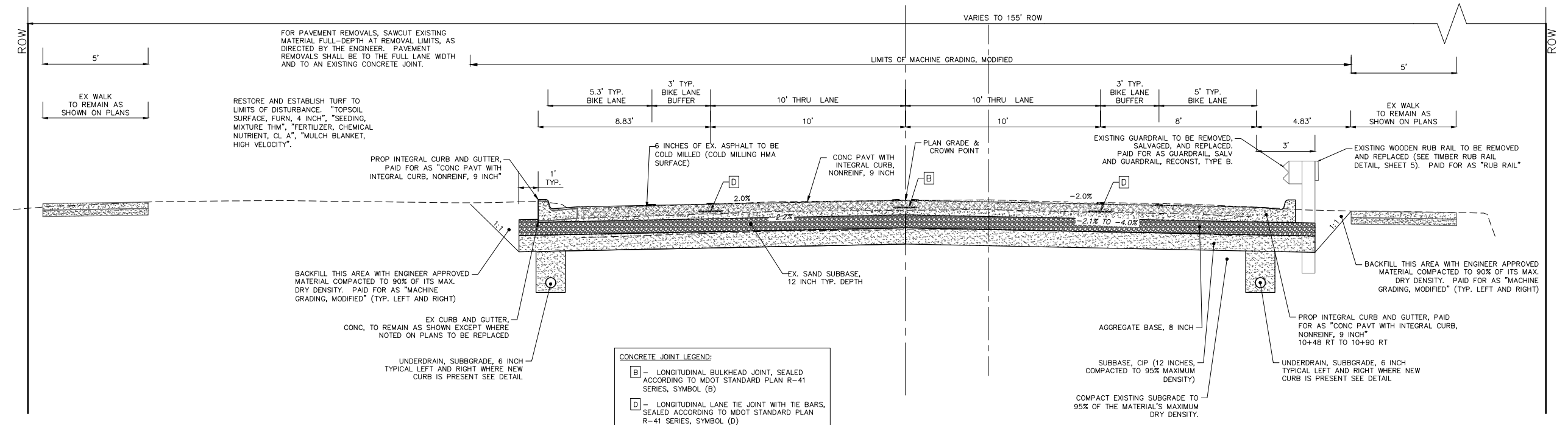
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SHEET No.

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SCIO CHURCH ROAD
TYPICAL SECTION
STA. 11+96 TO STA. 22+40
N.T.S.

HMA APPLICATION ESTIMATE					
PAY ITEM	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
4EML	220 LB/SYD	2.0	260	64-28	TOP
4EML	220 LB/SYD	2.0	260	64-28	LEVELING
3C	220 LB/SYD	2.0	260	64-28	BASE
HMA APPROACH	275 LB/SYD	2.5	260	64-28	4EML
HAND PATCHING	275 LB/SYD	2.5	260	64-28	3C
Bond Coat SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



SCIO CHURCH ROAD
TYPICAL SECTION
P.O.B. STA. 10+49 TO STA. 11+96
N.T.S.

CONCRETE JOINT LEGEND:

[B]	LONGITUDINAL BULKHEAD JOINT, SEALED ACCORDING TO MDOT STANDARD PLAN R-41 SERIES, SYMBOL (B)
[D]	LONGITUDINAL LANE TIE JOINT WITH TIE BARS, SEALED ACCORDING TO MDOT STANDARD PLAN R-41 SERIES, SYMBOL (D)



Know what's below.
Call Before you dig.

CW	CCDF	CCDF	JKA	JKA	JKA	JKA	CHECKED
05-20-22	09-07-21	07-23-21	10-5-20	DATE	DRAWN		

03	FINAL RE-SUBMITTAL	02	RESPONSE TO FINAL MDOT REVIEW	01	MDOT FINAL SUBMITTAL	00	G.I. SUBMITTAL	DESCRIPTION	REV.
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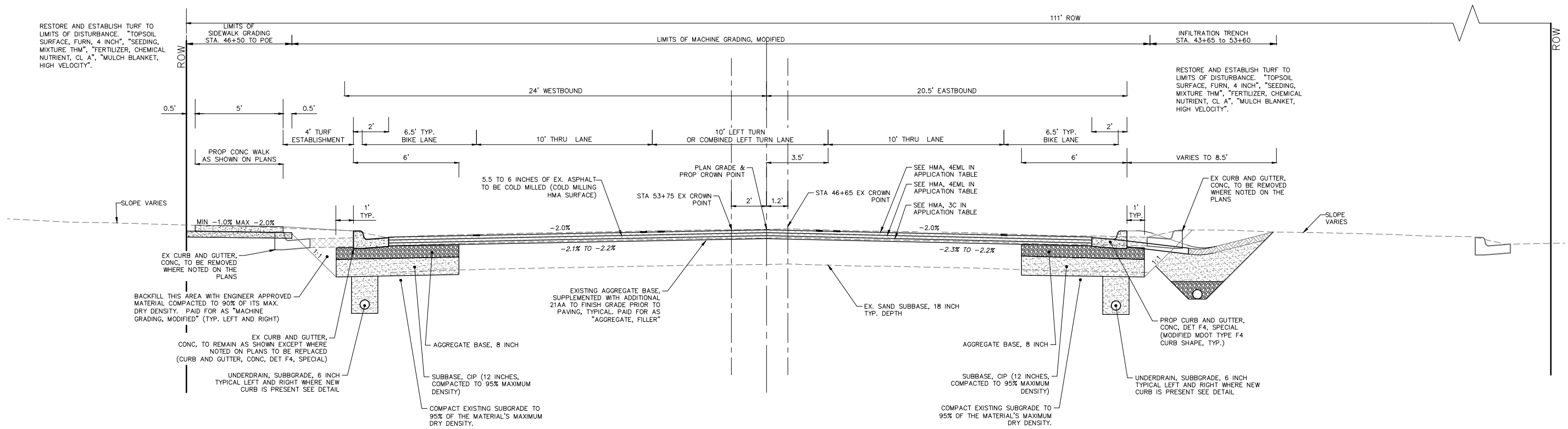
SCIO CHURCH ROAD IMPROVEMENT PROJECT

TYPICAL SECTIONS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING	DRAWING No. 2019029-7
SCALE PLAN: NTS	SHEET No.

7 OF 50

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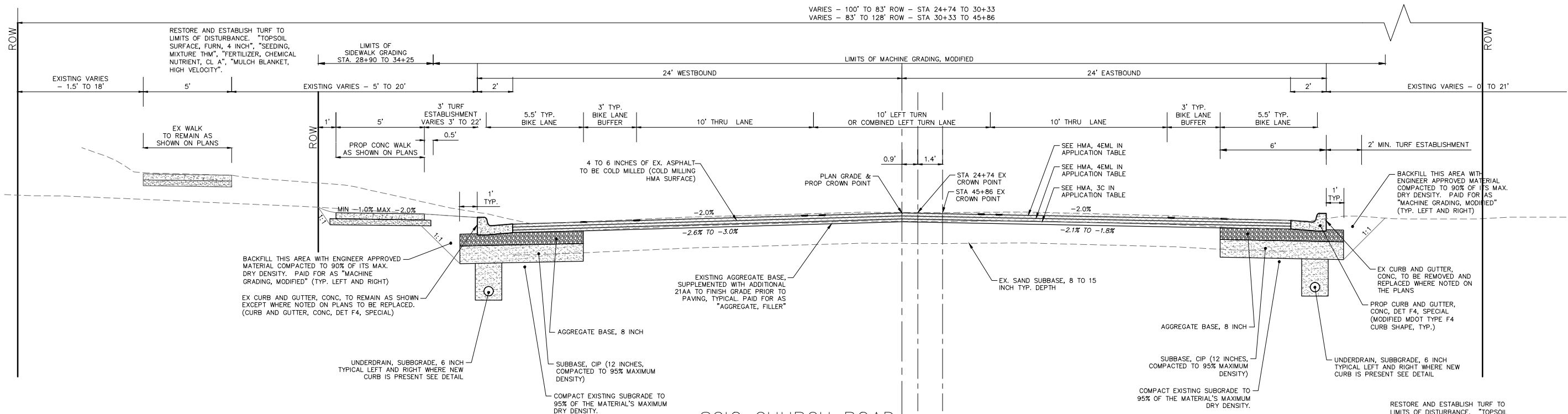


SCIO CHURCH ROAD
TYPICAL SECTION

STA. 46+65 TO STA. 53+71.3 P.O.E.

N.T.S.

VARIES - 100' TO 83' ROW - STA 24+74 TO 30+33
VARIES - 83' TO 128' ROW - STA 30+33 TO 45+86



SCIO CHURCH ROAD
TYPICAL SECTION

STA. 22+40 TO STA. 46+65

N.T.S.



Know what's below.
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
03	05-20-22	FINAL RE-SUBMITTAL	CDDF	
02	09-07-21	RESPONSE TO FINAL MDOT REVIEW	CDDF	
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00	10-5-20	C.I. SUBMITTAL	CDDF	

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SCIO CHURCH ROAD IMPROVEMENT PROJECT

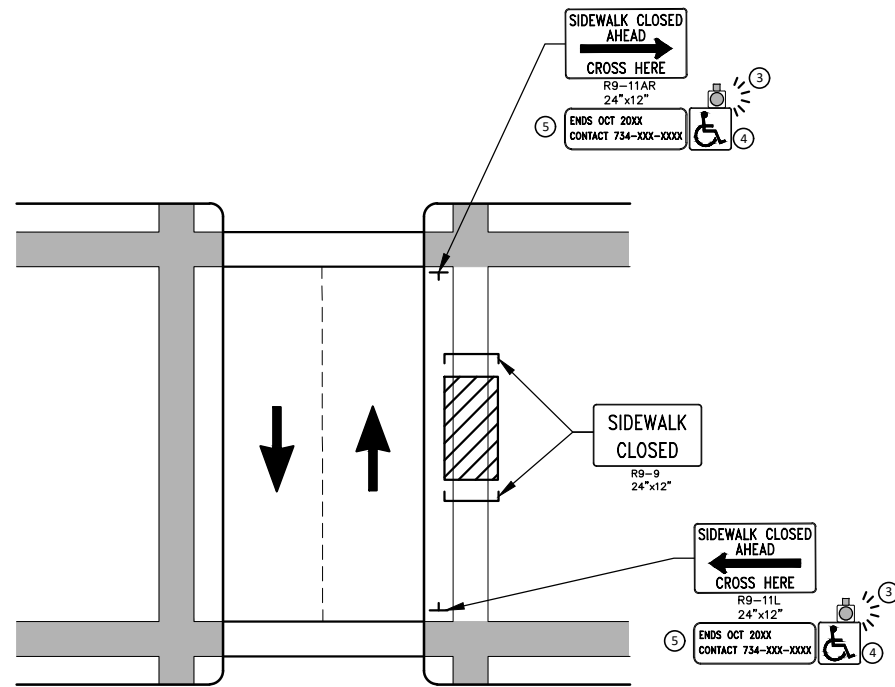
TYPICAL SECTIONS

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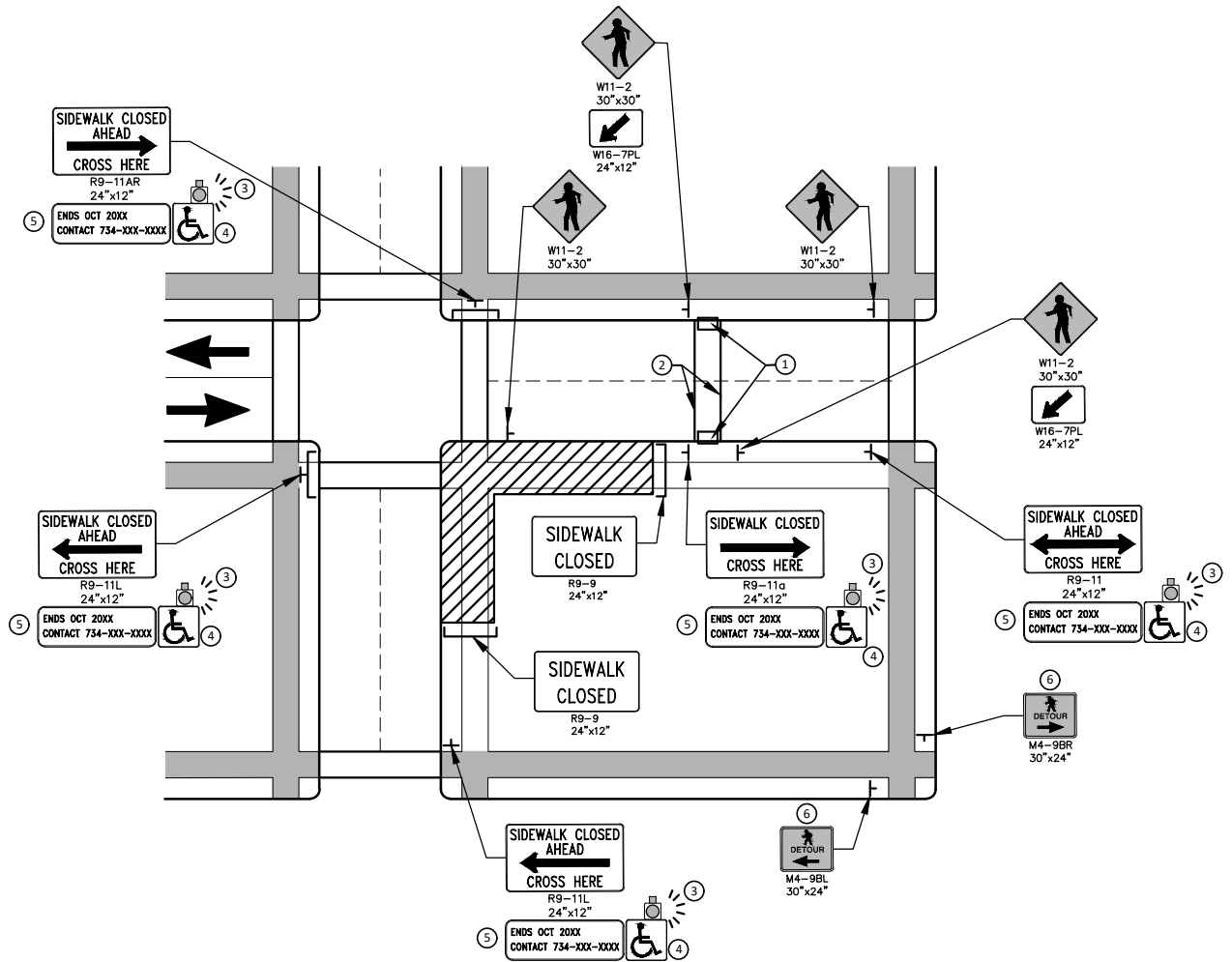
SHEET No.

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PEDESTRIAN DETOUR USING OPPOSITE SIDE OF STREET



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

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.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

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 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.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
2. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
3. AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHALL BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD 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. PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHALL BE USED IF THE PEDESTRIAN DETOUR IS IN A LOCATION OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

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. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, 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. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.

LEGEND

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

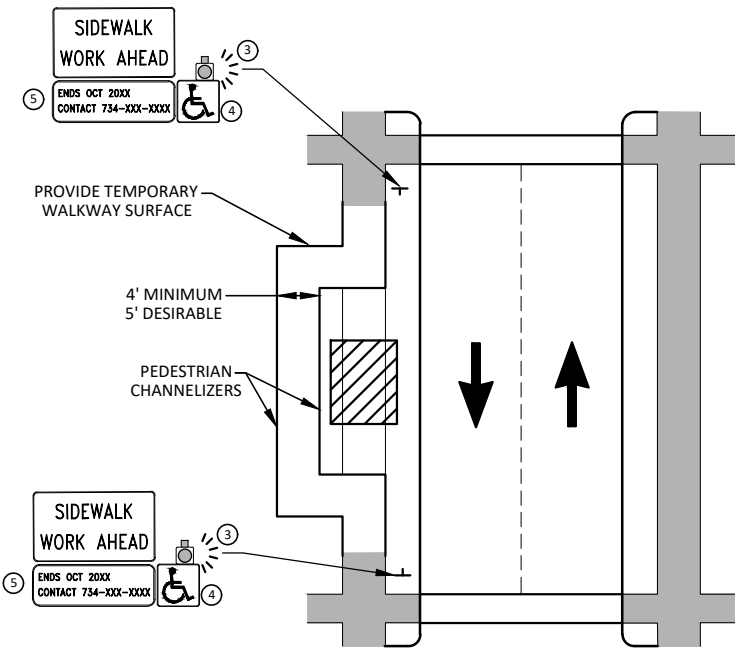


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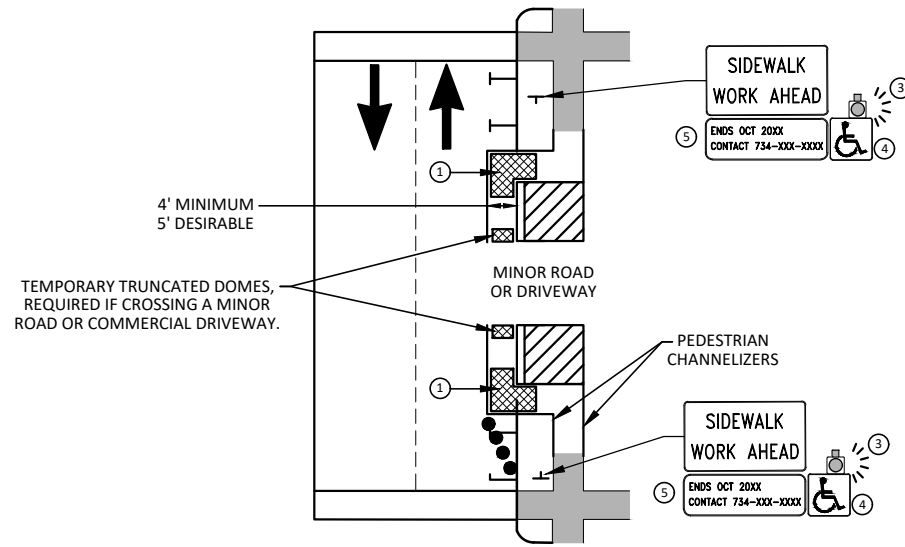
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR
SCALE: N.T.S.
DRAWING No. 20190299

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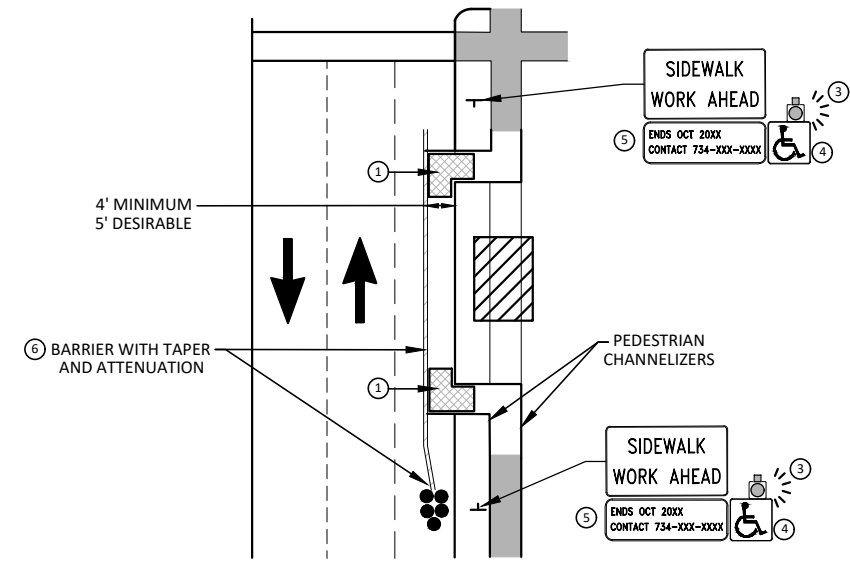


**BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY**
BYPASS TYPE A

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



**SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY**
BYPASS TYPE B



**SIDEWALK BYPASS USING
SHOULDER OR PARKING LANE ON
HIGH SPEED ROADWAY**
BYPASS TYPE C

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.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

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.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS AS SHOWN ON THE PROJECT PLANS.

SPECIFIC NOTES

1. TEMPORARY CURB RAMP WITH DETECTABLE WARNINGS.
2. S 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



CW	CCDF	05-20-22	FINAL RE-SUBMITTAL	03	REV.
JKA	CCDF	09-07-21	RESPONSE TO FINAL MDOT REVIEW	02	
JKA	CCDF	07-23-21	MDOT FINAL SUBMITTAL	01	
JKA	CCDF	10-5-20	G.I. SUBMITTAL	00	
		DATE	DESCRIPTION		

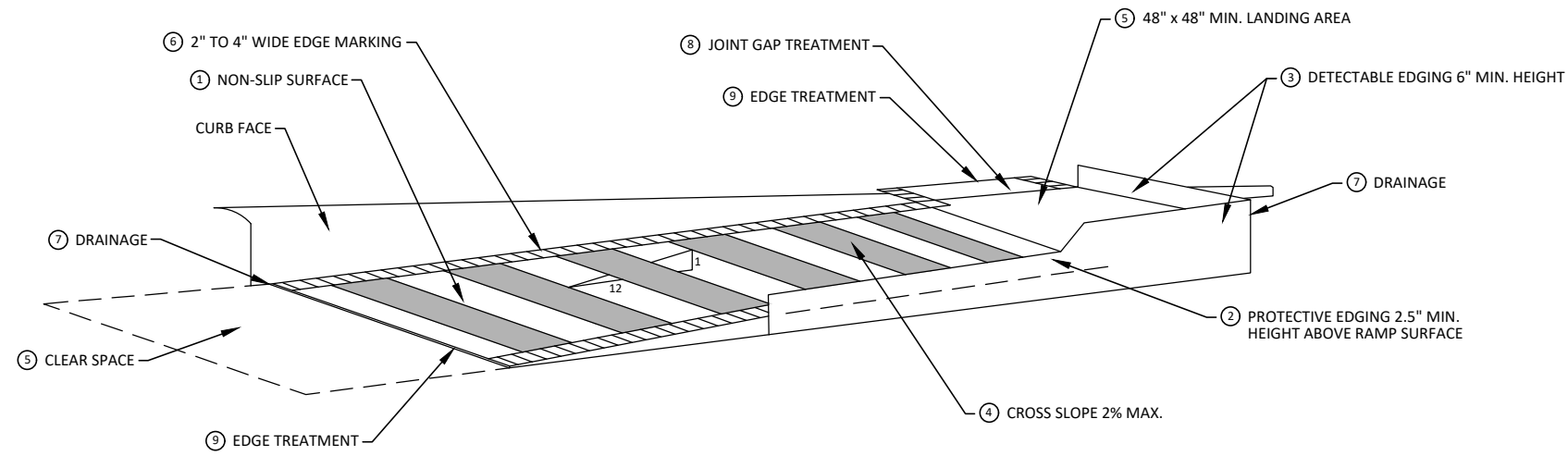
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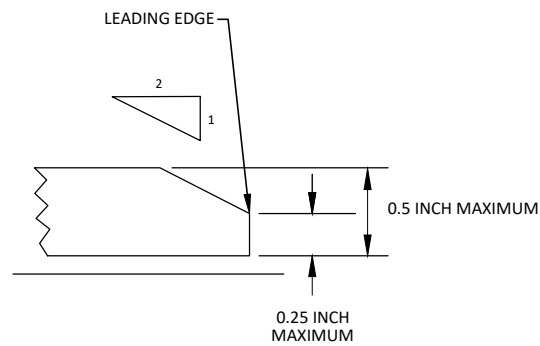
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS

SCALE: N.T.S.
DRAWING No. 2019029-10

R:\2019029 Scio Church Imp\Plan Production\2019029Det1.dwg Dwg Created: 22-Feb-21 - _a2_standard bw.stb - Plot Date: 20-May-22



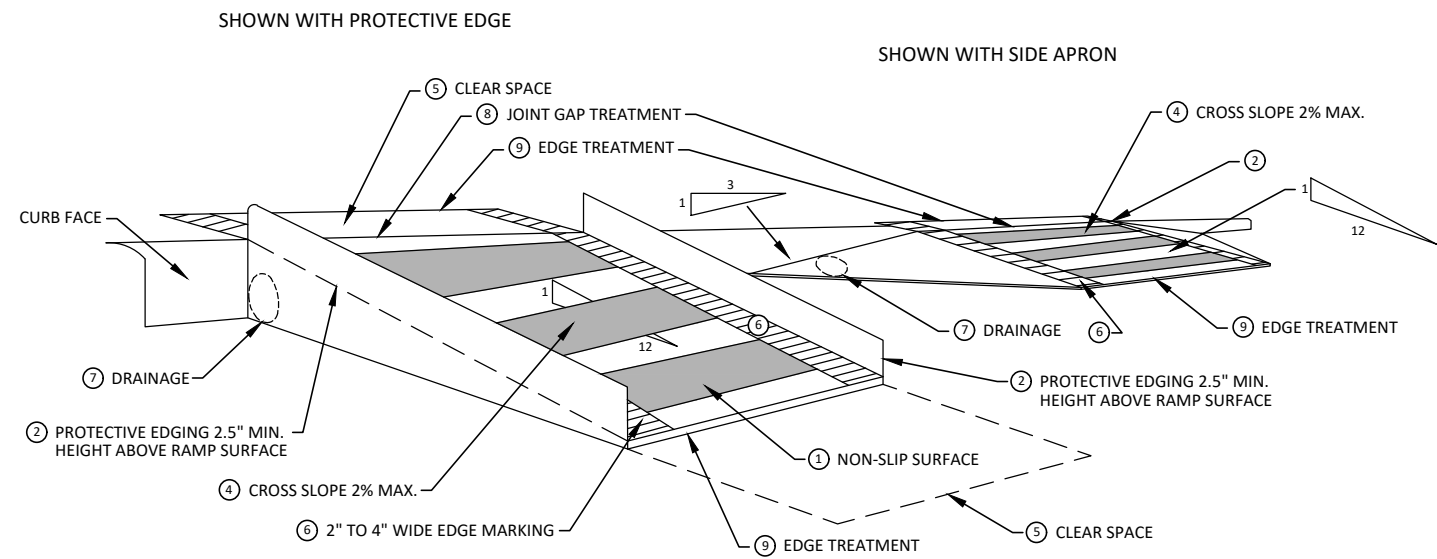
**TEMPORARY CURB RAMP
PARALLEL TO CURB**



EDGE TREATMENT

SPECIFIC NOTES

- 1 CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. PROTECTIVE EDGING WITH A 2.5" MIN. HEIGHT ABOVE THE RAMP 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.
- 2 DETECTABLE EDGING ANYTIME A HANDRAIL IS REQUIRED, AND ANYTIME THE PATH CHANGES DIRECTION. THIS INCLUDES A TURN ONTO THE RAMP FROM THE PATH. DETECTABLE EDGING MUST BEGIN A MAXIMUM OF 2.5" ABOVE THE RAMP SURFACE, AND EXTEND AT LEAST 6" ABOVE THE RAMP SURFACE. CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 3 CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 4 CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- 5 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.
- 6 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- 7 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- 8 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.



**TEMPORARY CURB RAMP
PERPENDICULAR TO CURB**



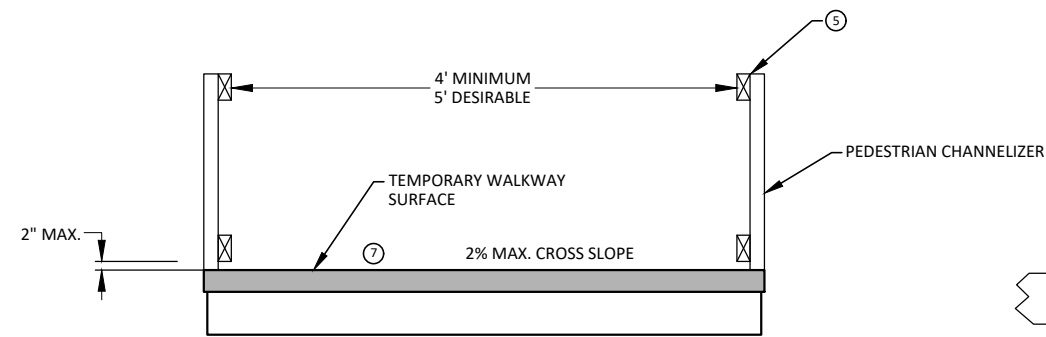
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02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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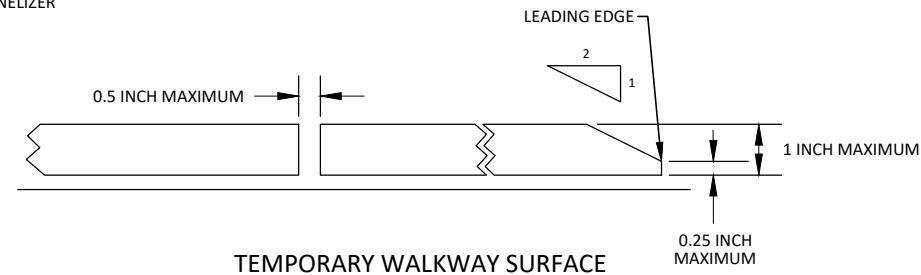


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
TPAR RAMPS
SCALE: N.T.S.
DRAWING No. 2019029-11

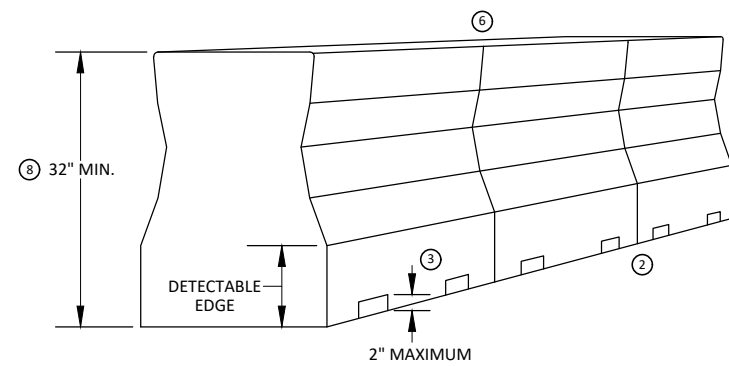
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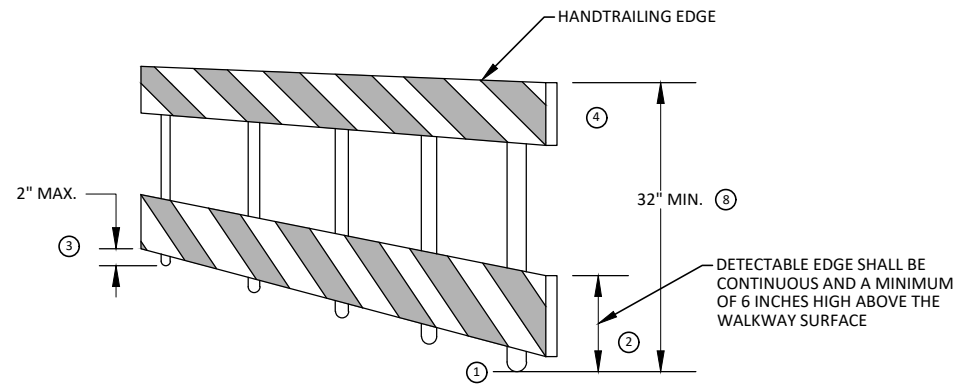
TEMPORARY PEDESTRIAN ACCESS



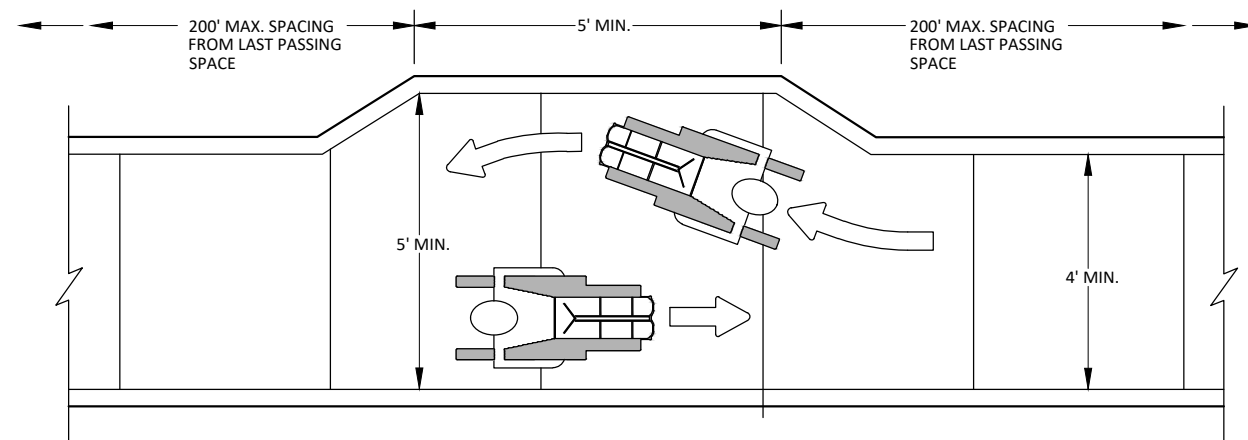
TEMPORARY WALKWAY SURFACE



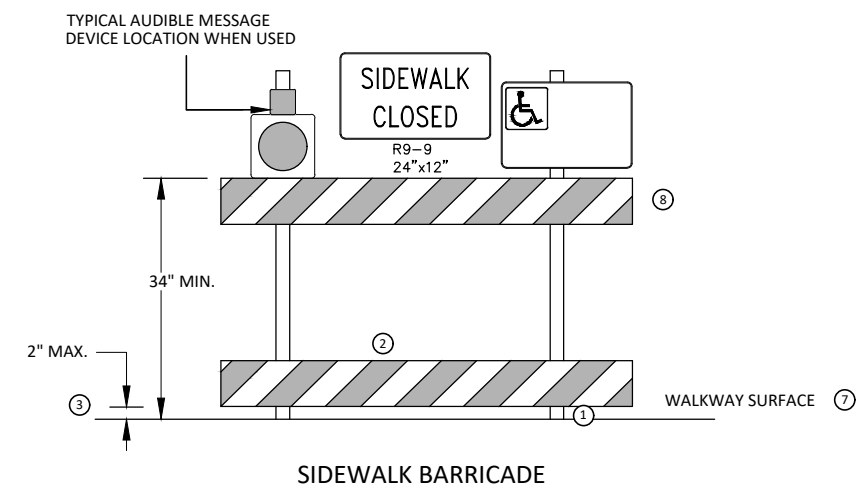
PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER
(MINIMUM REQUIREMENTS)



NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

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 NCHRP 350 CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIER'S APPLICATION.

BARRICADES SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE BEING CLOSED.

SPECIFIC NOTES

1 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.

2 DETECTABLE EDGES SHALL BE CONTINUOUS AND A MINIMUM OF 6 INCHES IN HEIGHT ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.

3 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.

4 PROVIDE A HANDRAIL ON BOTH SIDES OF THE RAMP IF THE RAMP IS NOT EXPOSED TO VEHICLE TRAFFIC AND HAS A TOTAL RISE GREATER THAN 6 INCHES, AND A LENGTH GREATER THAN 72 INCHES.

- ENSURE THE HANDRAIL IS 1.25 AND 1.5 INCHES WIDE AND CONFIGURED TO BE A "GRASPABLE" CROSS-SECTION.

WHEN THE RAMP IS EXPOSED TO TRAFFIC, IN LIEU OF HANDRAILS, USE A PROTECTIVE EDGE 2.5 INCHES MINIMUM HEIGHT ABOVE THE RAMP SURFACE OR 1:10 FLARE ON BOTH SIDES OF THE RAMP.

5 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.

6 ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE INTENDED CHANNELIZED PATH.

7 A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. COMPACTED GRAVEL, AGGREGATE, OR SLAG MATERIALS ARE NOT ALLOWED.

8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES IN HEIGHT OR GREATER.



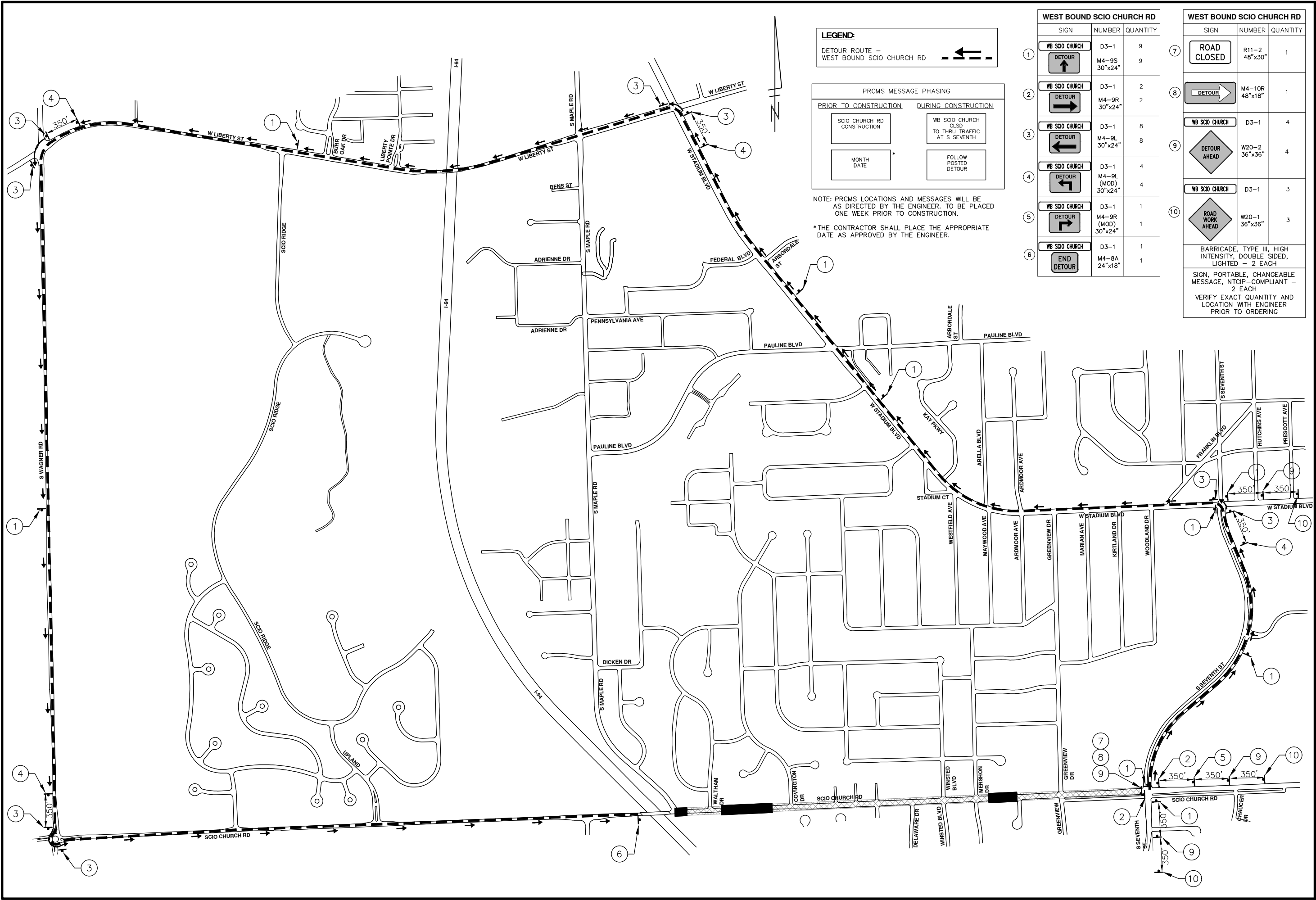
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CCDF	CCDF	CCDF	CCDF	DRAWN
05-20-22	09-07-21	07-23-21	10-5-20	DATE
03	02	01	00	REV.
FINAL RE-SUBMITTAL	RESPONSE TO FINAL MDOT REVIEW	MDOT FINAL SUBMITTAL	G.I. SUBMITTAL	DESCRIPTION

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
TPAR WALKWAY DEVICES

SCALE: N.T.S.
DRAWING No. 2019029-12



LEGEND:
 DETOUR ROUTE - WEST BOUND SCIO CHURCH RD

PRCMS MESSAGE PHASING

PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
SCIO CHURCH RD CONSTRUCTION	WB SCIO CHURCH CLSD TO THRU TRAFFIC AT S SEVENTH
MONTH DATE *	FOLLOW POSTED DETOUR

NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.
 *THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

WEST BOUND SCIO CHURCH RD		
SIGN	NUMBER	QUANTITY
WB SCIO CHURCH	D3-1	9
DETOUR	M4-9S 30"x24"	9
WB SCIO CHURCH	D3-1	2
DETOUR	M4-9R 30"x24"	2
WB SCIO CHURCH	D3-1	8
DETOUR	M4-9L 30"x24"	8
WB SCIO CHURCH	D3-1	4
DETOUR	M4-9L (MOD) 30"x24"	4
WB SCIO CHURCH	D3-1	1
DETOUR	M4-9R (MOD) 30"x24"	1
WB SCIO CHURCH	D3-1	1
END DETOUR	M4-8A 24"x18"	1

WEST BOUND SCIO CHURCH RD		
SIGN	NUMBER	QUANTITY
ROAD CLOSED	R11-2 48"x30"	1
DETOUR	M4-10R 48"x18"	1
WB SCIO CHURCH	D3-1	4
DETOUR AHEAD	W20-2 36"x36"	4
WB SCIO CHURCH	D3-1	3
ROAD WORK AHEAD	W20-1 36"x36"	3
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH		
SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH		
VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING		

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

DETOUR ROUTE

PHASE I - WEST BOUND SCIO CHURCH RD

SCALE PLAN: 1" = 400'

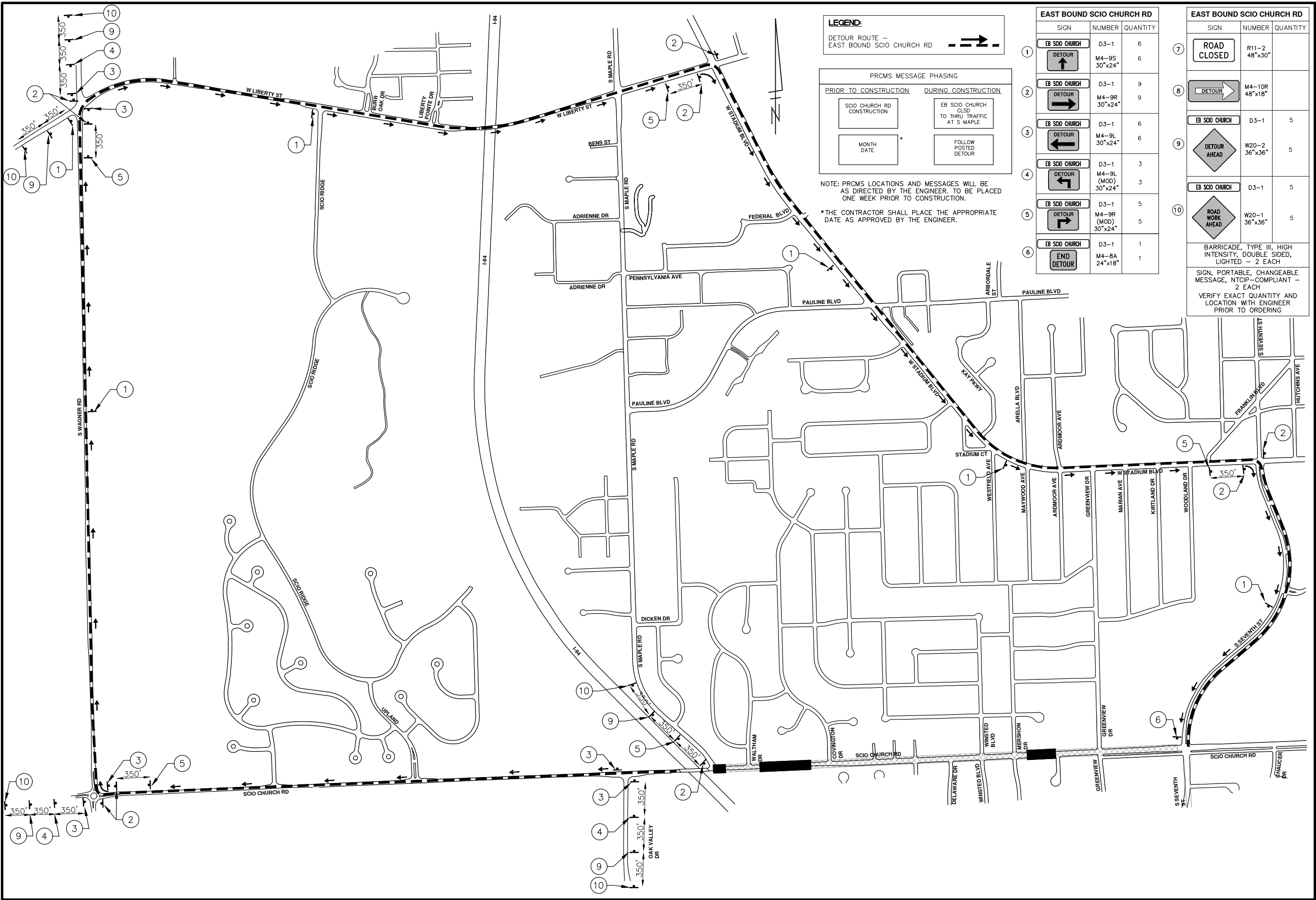
DRAWING No. 2019029-13

SHEET No. 13 OF 50

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

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02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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LEGEND:
 DETOUR ROUTE - EAST BOUND SCIO CHURCH RD

PRCMS MESSAGE PHASING

PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
SCIO CHURCH RD CONSTRUCTION	EB SCIO CHURCH CLSD TO THRU TRAFFIC AT S MAPLE
MONTH DATE *	FOLLOW POSTED DETOUR

NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.
 *THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

EAST BOUND SCIO CHURCH RD		
SIGN	NUMBER	QUANTITY
EB SCIO CHURCH	D3-1	6
DETOUR	M4-9S 30"x24"	6
EB SCIO CHURCH	D3-1	9
DETOUR	M4-9R 30"x24"	9
EB SCIO CHURCH	D3-1	6
DETOUR	M4-9L 30"x24"	6
EB SCIO CHURCH	D3-1	3
DETOUR	M4-9L (MOD) 30"x24"	3
EB SCIO CHURCH	D3-1	5
DETOUR	M4-9R (MOD) 30"x24"	5
EB SCIO CHURCH	D3-1	1
END DETOUR	M4-8A 24"x18"	1

EAST BOUND SCIO CHURCH RD		
SIGN	NUMBER	QUANTITY
ROAD CLOSED	R11-2 48"x30"	
DETOUR	M4-10R 48"x18"	
EB SCIO CHURCH	D3-1	5
DETOUR AHEAD	W20-2 36"x36"	5
EB SCIO CHURCH	D3-1	5
ROAD WORK AHEAD	W20-1 36"x36"	5

BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH
 SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH
 VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
 DETOUR ROUTE
 PHASE 1 - EAST BOUND SCIO CHURCH RD

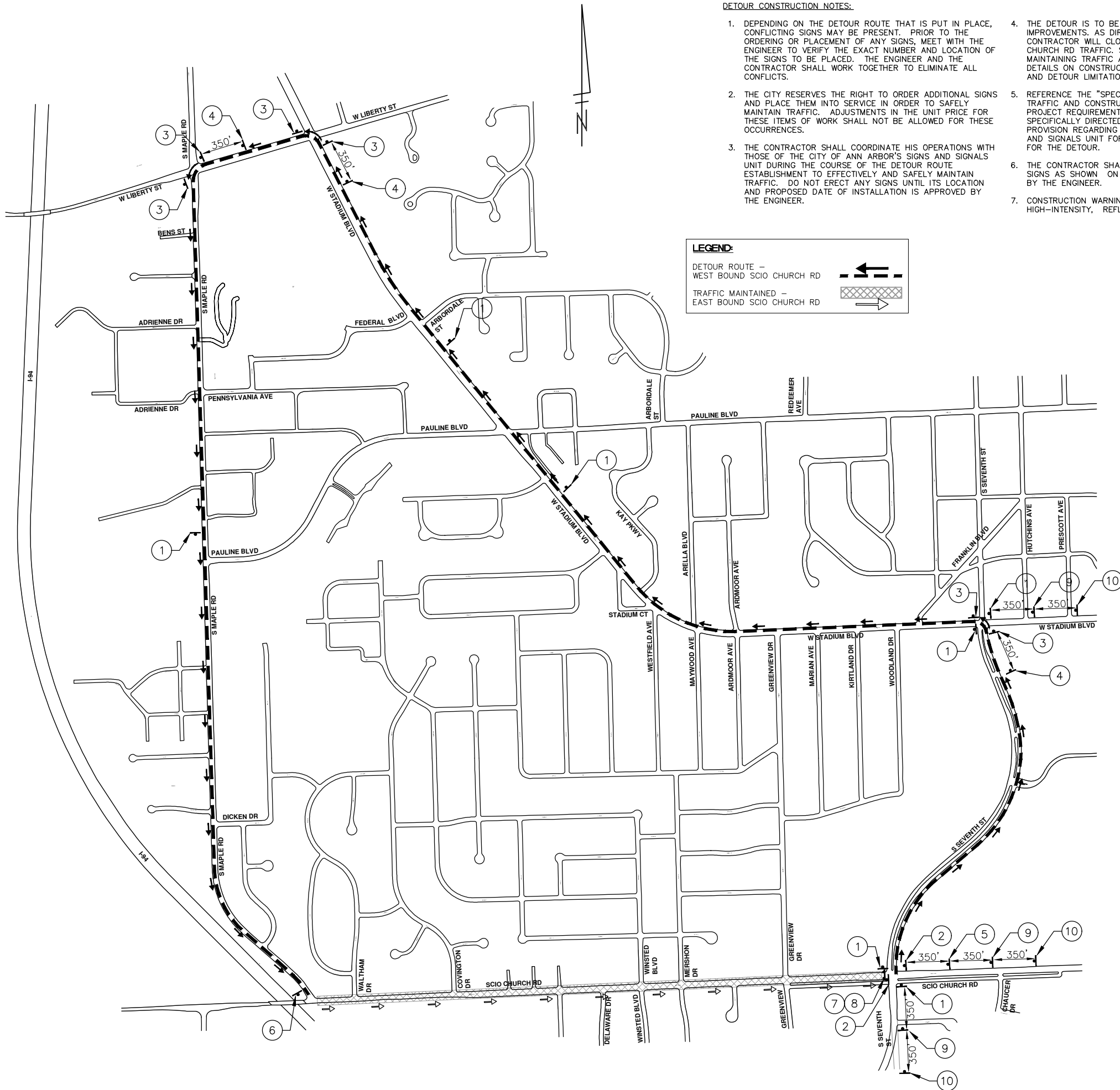
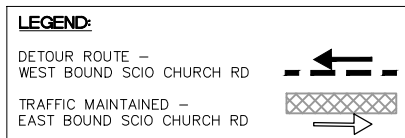
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 SHEET No. 14 OF 50

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02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

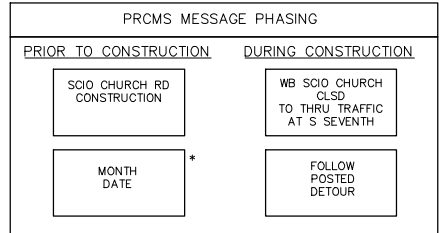
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DETOUR CONSTRUCTION NOTES:

1. DEPENDING ON THE DETOUR ROUTE THAT IS PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
2. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
3. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERCT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.
4. THE DETOUR IS TO BE IN PLACE DURING SCIO CHURCH ROAD IMPROVEMENTS. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR WEST BOUND SCIO CHURCH RD TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.
5. REFERENCE THE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.
6. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
7. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED BACKGROUND.
8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
9. THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER-APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC, FURN AND OPER".
10. ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TWO (2) TYPE A FLASHING LIGHTS AND ONE (1) DAY-GLOW ORANGE FLAG.
11. CITY TO BE NOTIFIED A MINIMUM OF 7 DAYS PRIOR TO IMPLEMENTING WEST BOUND SCIO CHURCH RD DETOUR. MESSAGE BOARDS TO BE PLACED 7 DAYS PRIOR TO IMPLEMENTATION OF DETOUR.



WEST BOUND SCIO CHURCH RD		
SIGN	NUMBER	QUANTITY
	D3-1	7
	M4-9S 30"x24"	7
	D3-1	2
	M4-9R 30"x24"	2
	D3-1	6
	M4-9L 30"x24"	6
	D3-1	3
	M4-9L (MOD) 30"x24"	3
	D3-1	1
	M4-9R (MOD) 30"x24"	1
	D3-1	1
	M4-8A 24"x18"	1
	R11-2 48"x30"	1
	M4-10R 48"x18"	1
	D3-1	3
	W20-2 36"x36"	3
	D3-1	3
	W20-1 36"x36"	3
	D3-1	3
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED - 2 EACH		
SIGN, PORTABLE, CHANGEABLE MESSAGE, NTCIP-COMPLIANT - 2 EACH		
VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING		



NOTE: PRCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.

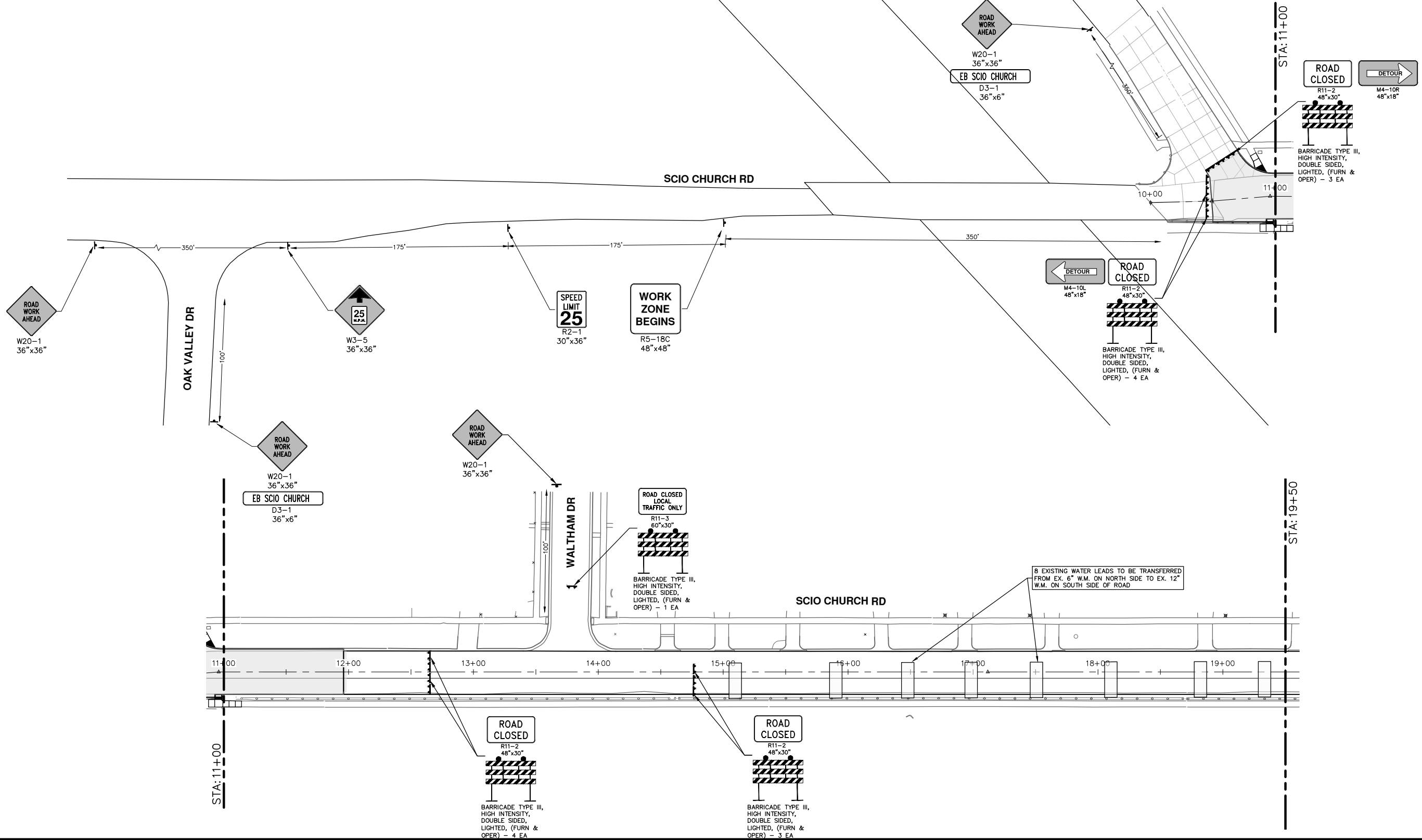
Know what's below. Call before you dig.

REV.	DATE	DESCRIPTION
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09-07-21		CCDF
07-23-21		CCDF
10-5-20		CCDF
		DRAWN
		CHECKED

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
 DETOUR ROUTE
 PHASE 2 & 3 - WEST BOUND SCIO CHURCH RD

SHEET No. 15 OF 50
 SCALE PLAN: 1" = 400'
 DRAWING No. 2019029-15

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	C.I. SUBMITTAL	10-5-20	CCDF	JKA

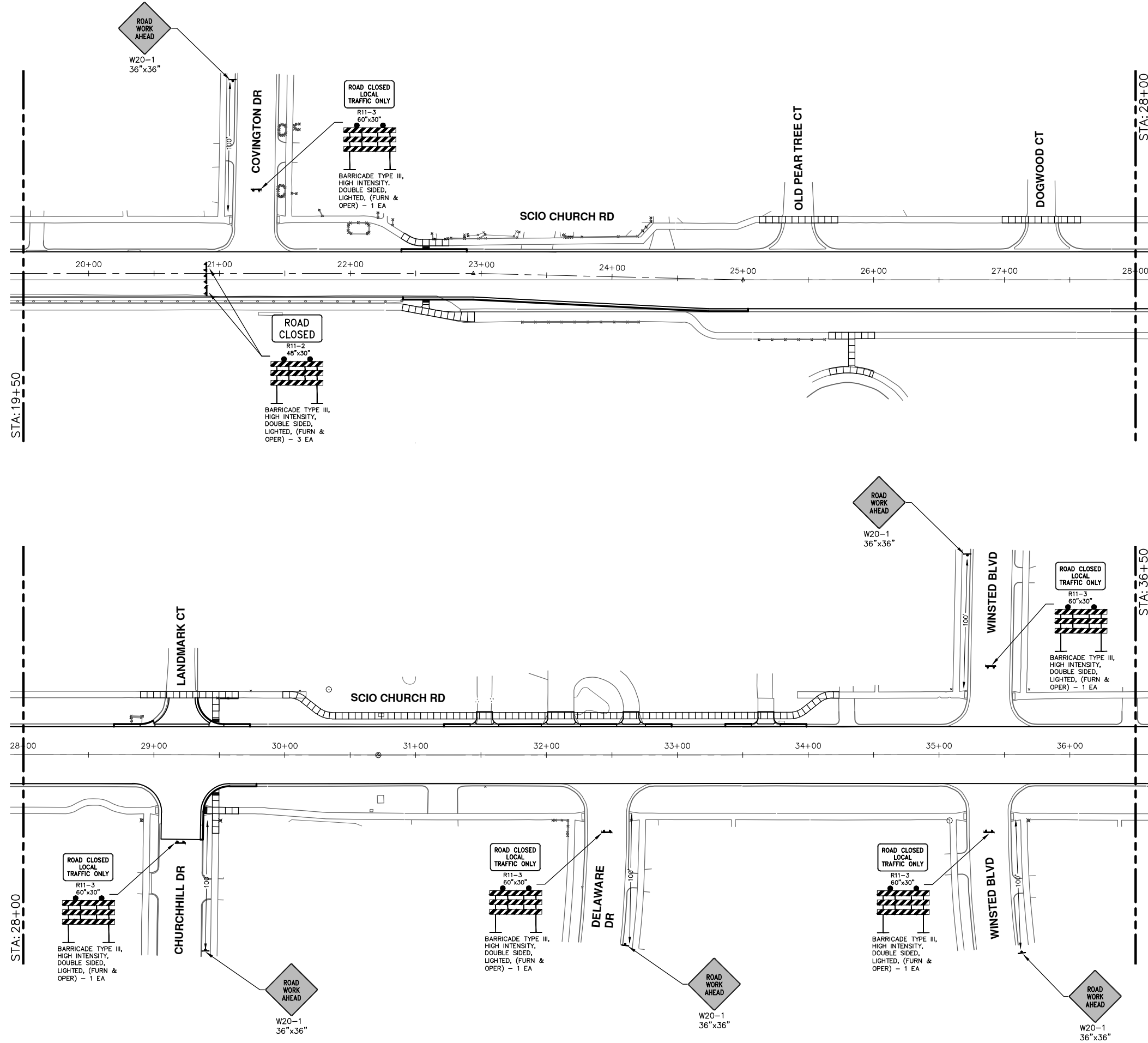
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
MAINTENANCE OF TRAFFIC - PHASE I

SCALE: 1" = 40'
DRAWING No. 2019029-16

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03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
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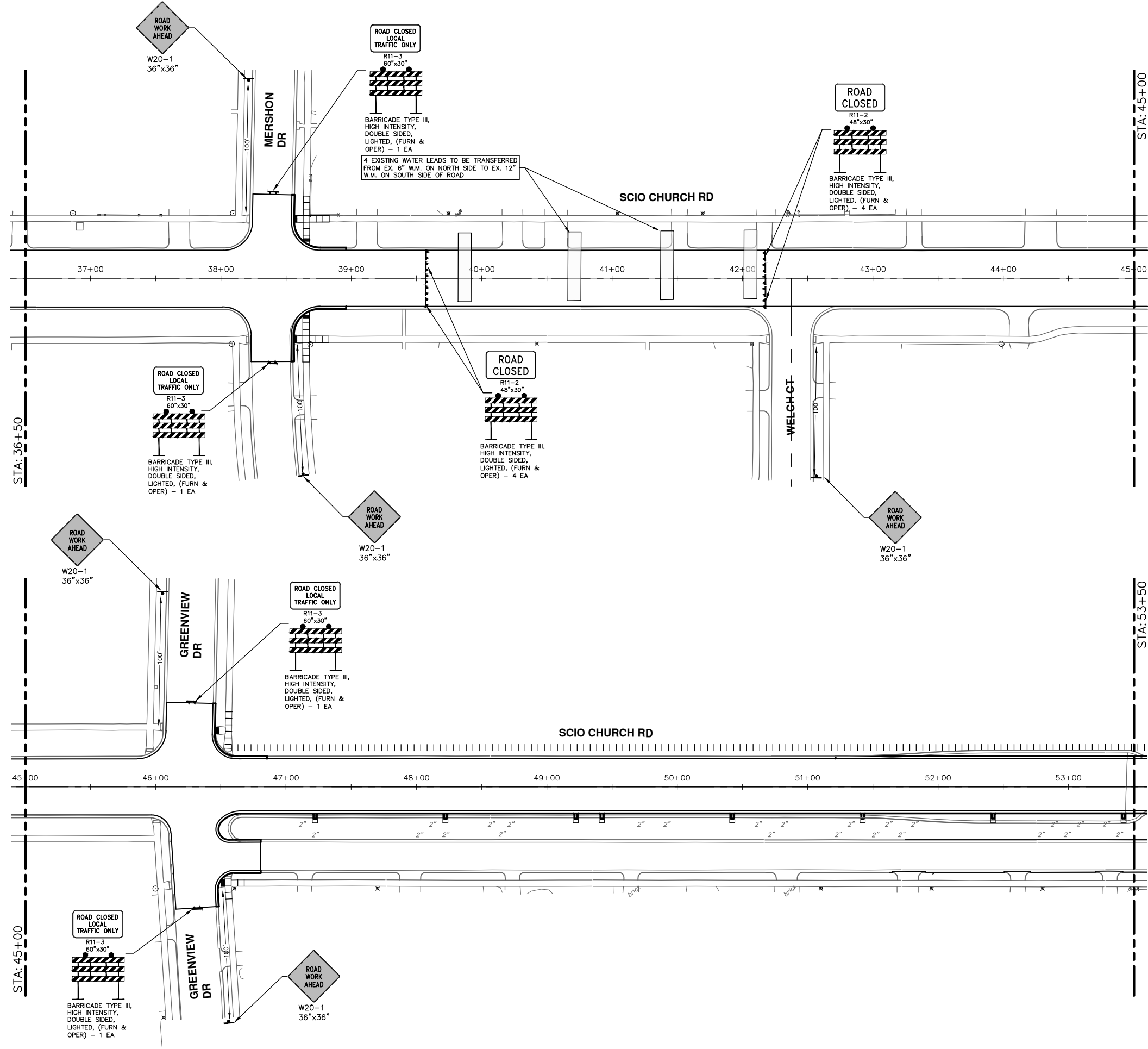


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SCIO CHURCH ROAD IMPROVEMENT PROJECT
MAINTENANCE OF TRAFFIC - PHASE I

SHEET No. 17 OF 50
SCALE: 1" = 40'
DRAWING No. 2019029-17

STA. 19+50 - STA. 36+50

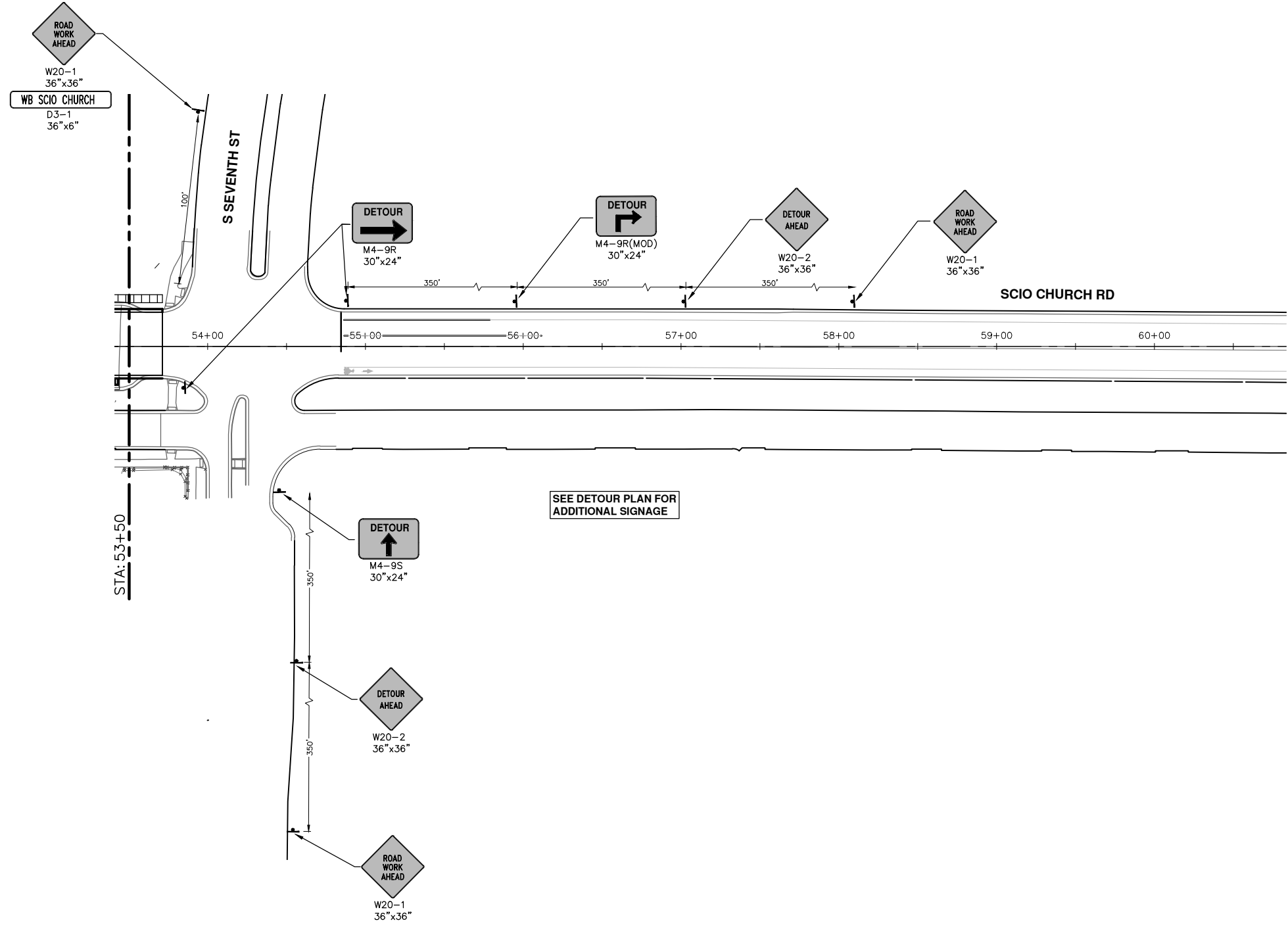
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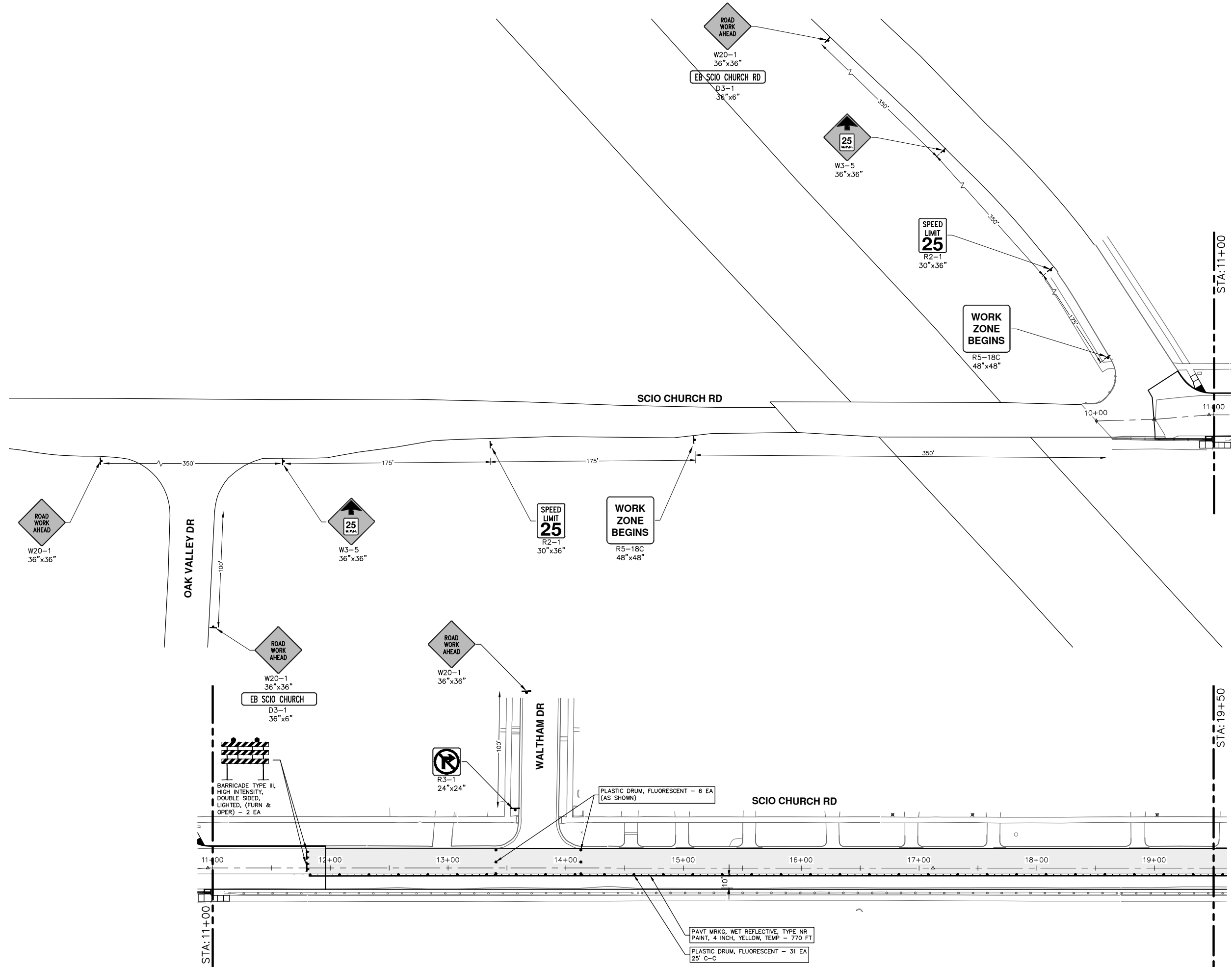
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02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA





REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

R:\2019029 Scio Church Imp\Plan Production\2019029Mtrf2.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



BARRICADE TYPE III,
HIGH INTENSITY,
DOUBLE SIDED,
LIGHTED, (FURN &
OPER) - 2 EA

PLASTIC DRUM, FLUORESCENT - 6 EA
(AS SHOWN)

PAVT MRKG, WET REFLECTIVE, TYPE NR
PAINT, 4 INCH, YELLOW, TEMP - 770 FT

PLASTIC DRUM, FLUORESCENT - 31 EA
25' C-C

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

MAINTENANCE OF TRAFFIC - PHASE II

P.O.B. - STA. 19+50

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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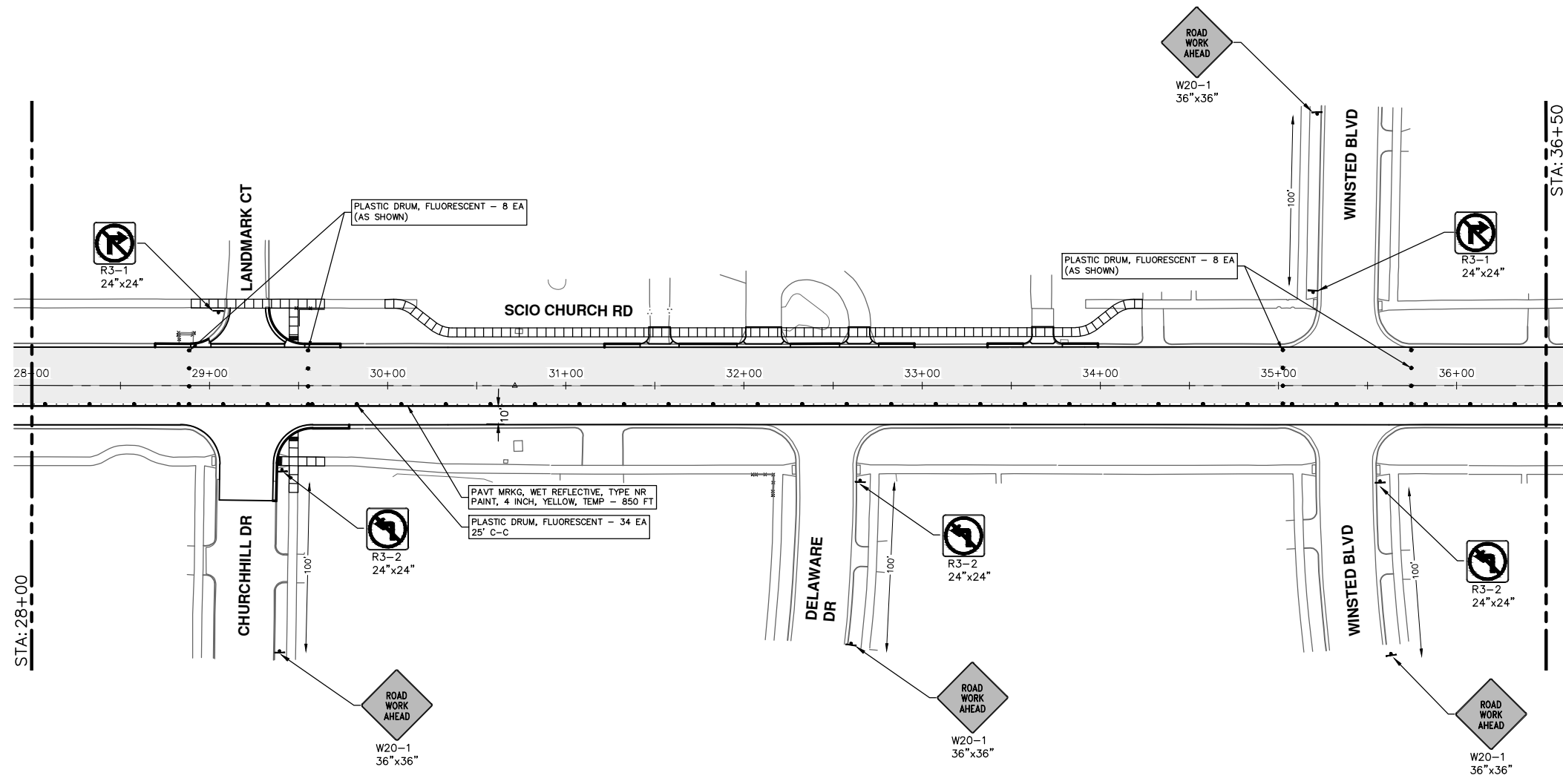
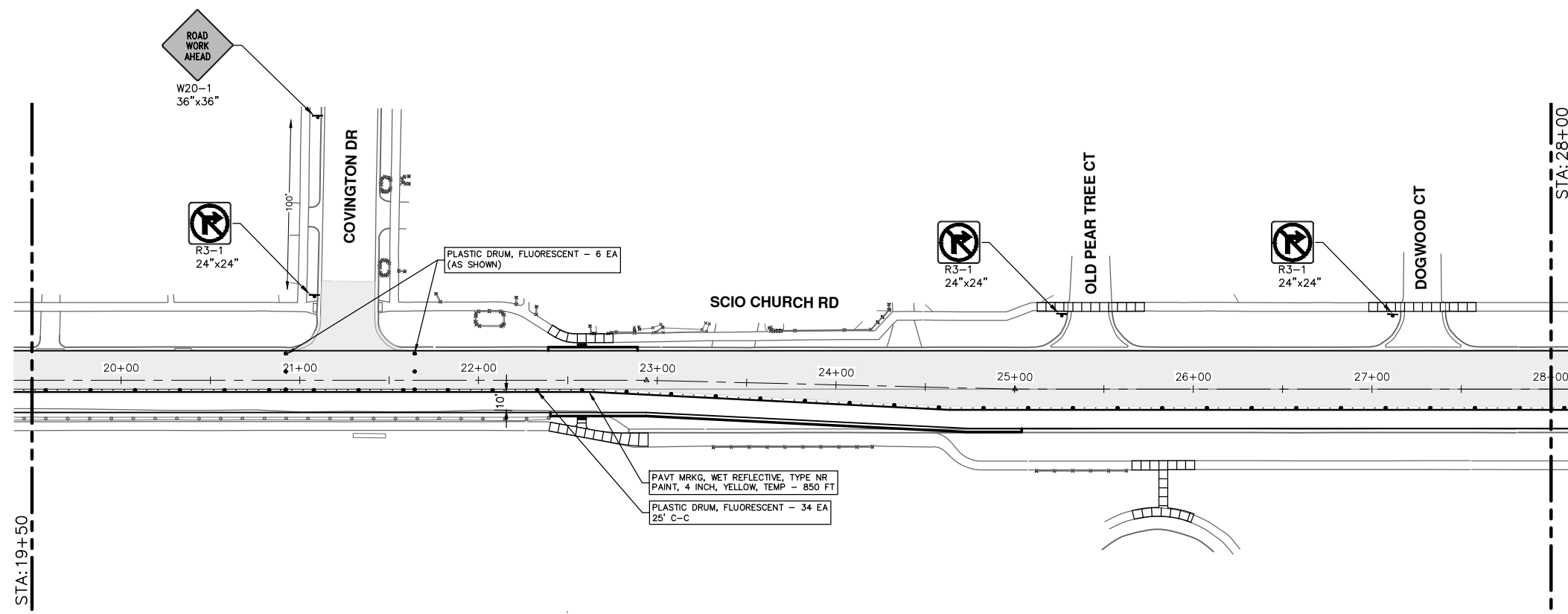
SCALE: 1" = 40'

SHEET No.

DRAWING No. 2019029-20

20 OF 50

R:\2019029 Scio Church Imp\Plan Production\2019029Mtrf2.dwg Dwg Created: 16-Jul-21 - _a2_standard bw.stb - Plot Date: 20-May-22



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SCIO CHURCH ROAD IMPROVEMENT PROJECT
 MAINTENANCE OF TRAFFIC - PHASE II

SCALE: 1" = 40'

DRAWING No. 2019029-21

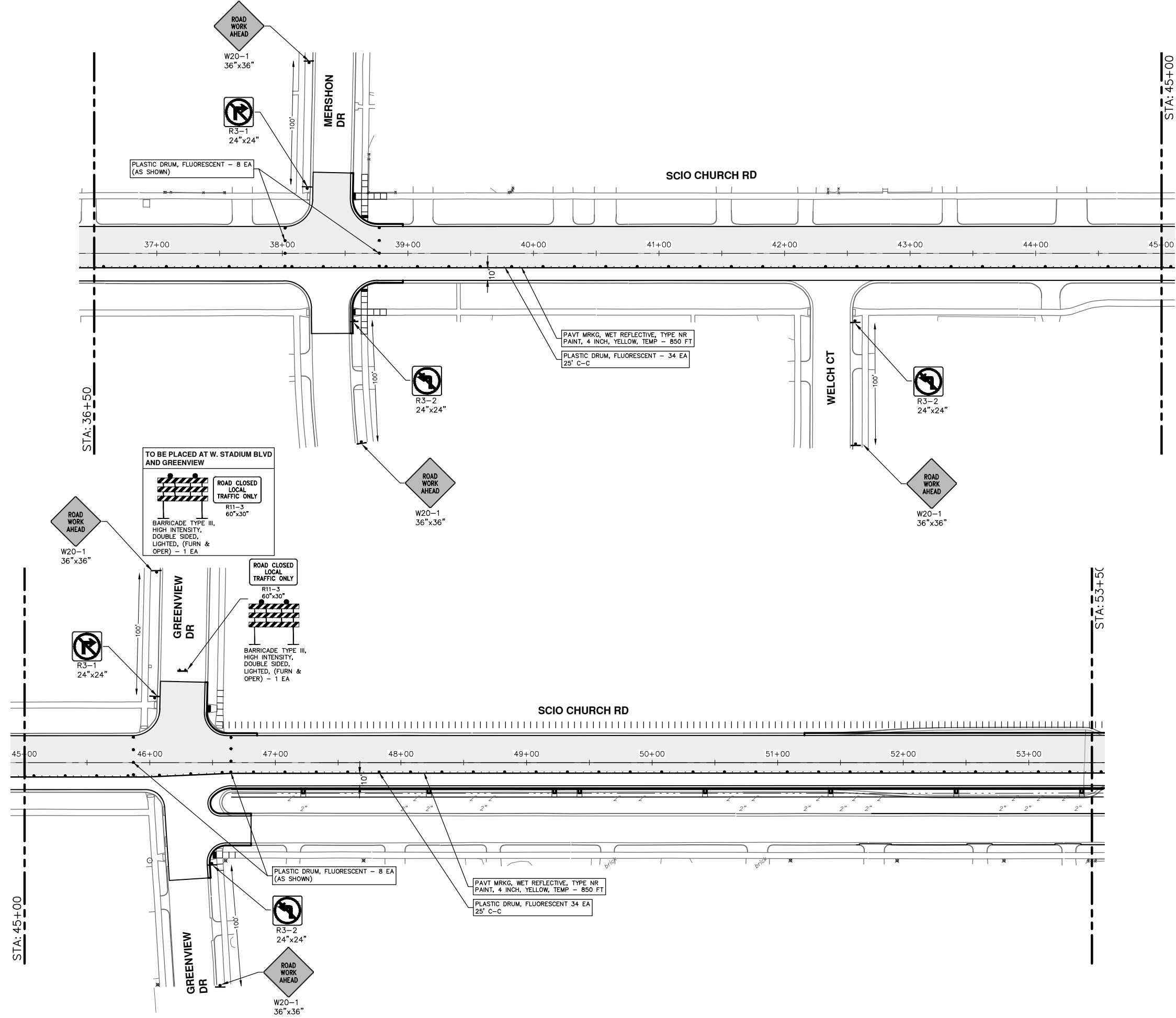
SHEET No. 21 OF 50

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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R:\2019029 Scio Church Imp\Plan Production\2019029Mtrf2.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22

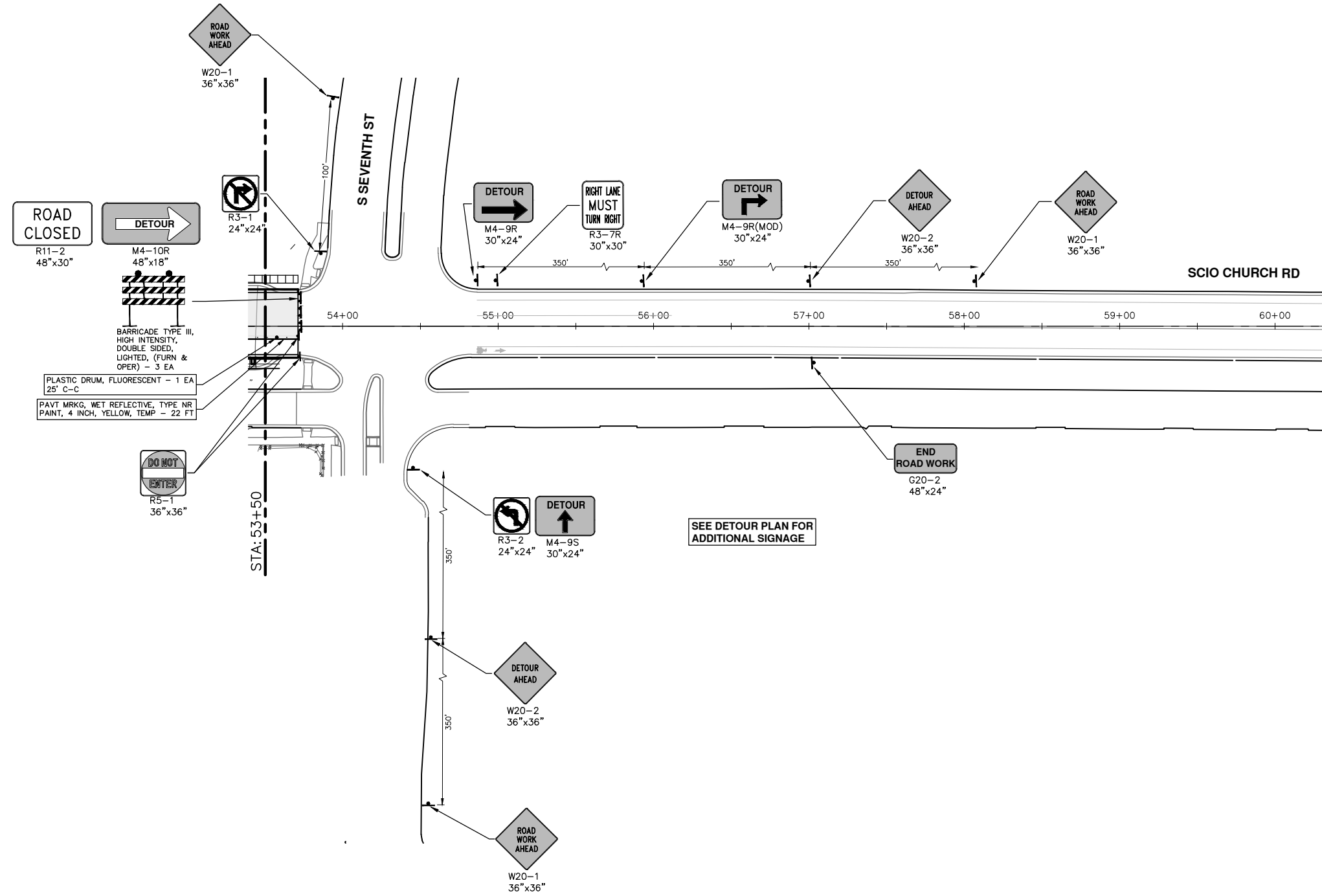


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA



R:\2019029 Scio Church Imp\Plan Production\2019029Mtrf2.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

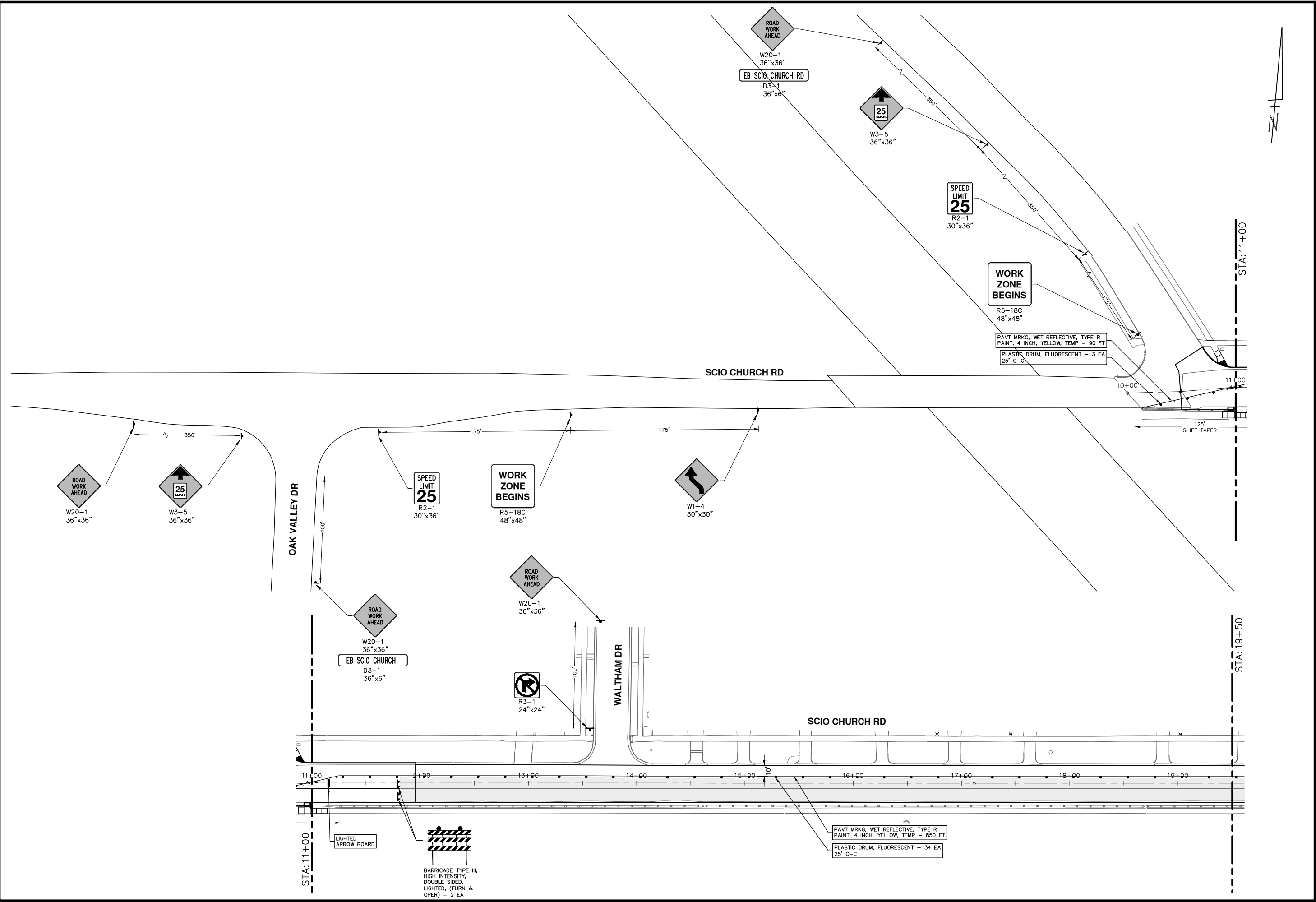
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MAINTENANCE OF TRAFFIC - PHASE II
STA. 53+50 - P.O.E.

SCALE: 1" = 40'
DRAWING No. 2019029-23

R:\2019029 Scio Church Imp\Plan Production\2019029Mtrf3.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



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SCIO CHURCH ROAD IMPROVEMENT PROJECT

MAINTENANCE OF TRAFFIC - PHASE II

P.O.B. - STA. 19+50

SCALE: 1" = 40'

DRAWING No. 2019029-24

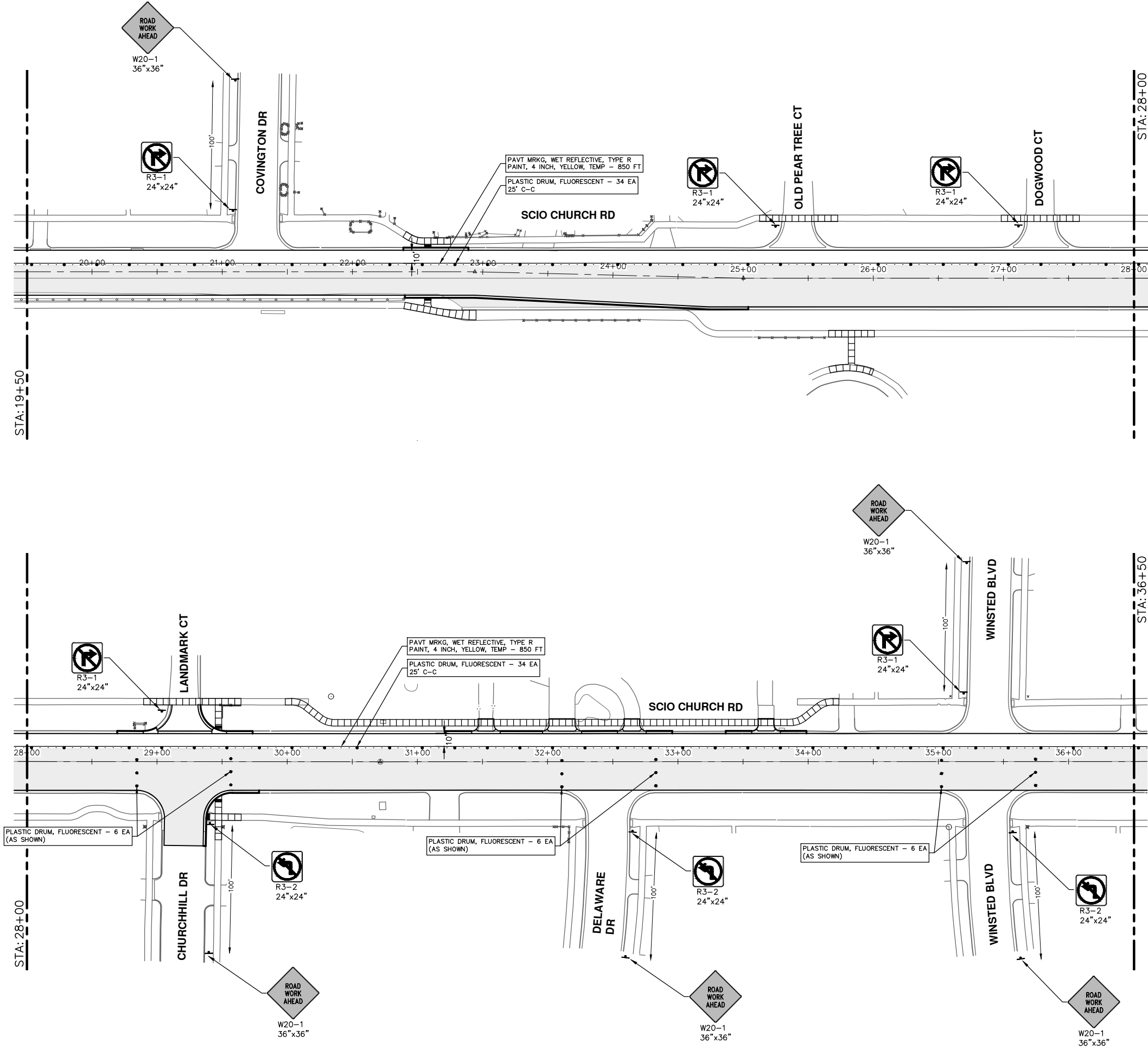
SHEET No. 24 OF 50

811
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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SCIO CHURCH ROAD IMPROVEMENT PROJECT
 MAINTENANCE OF TRAFFIC - PHASE III

SCALE: 1" = 40'

DRAWING No. 2019029-25

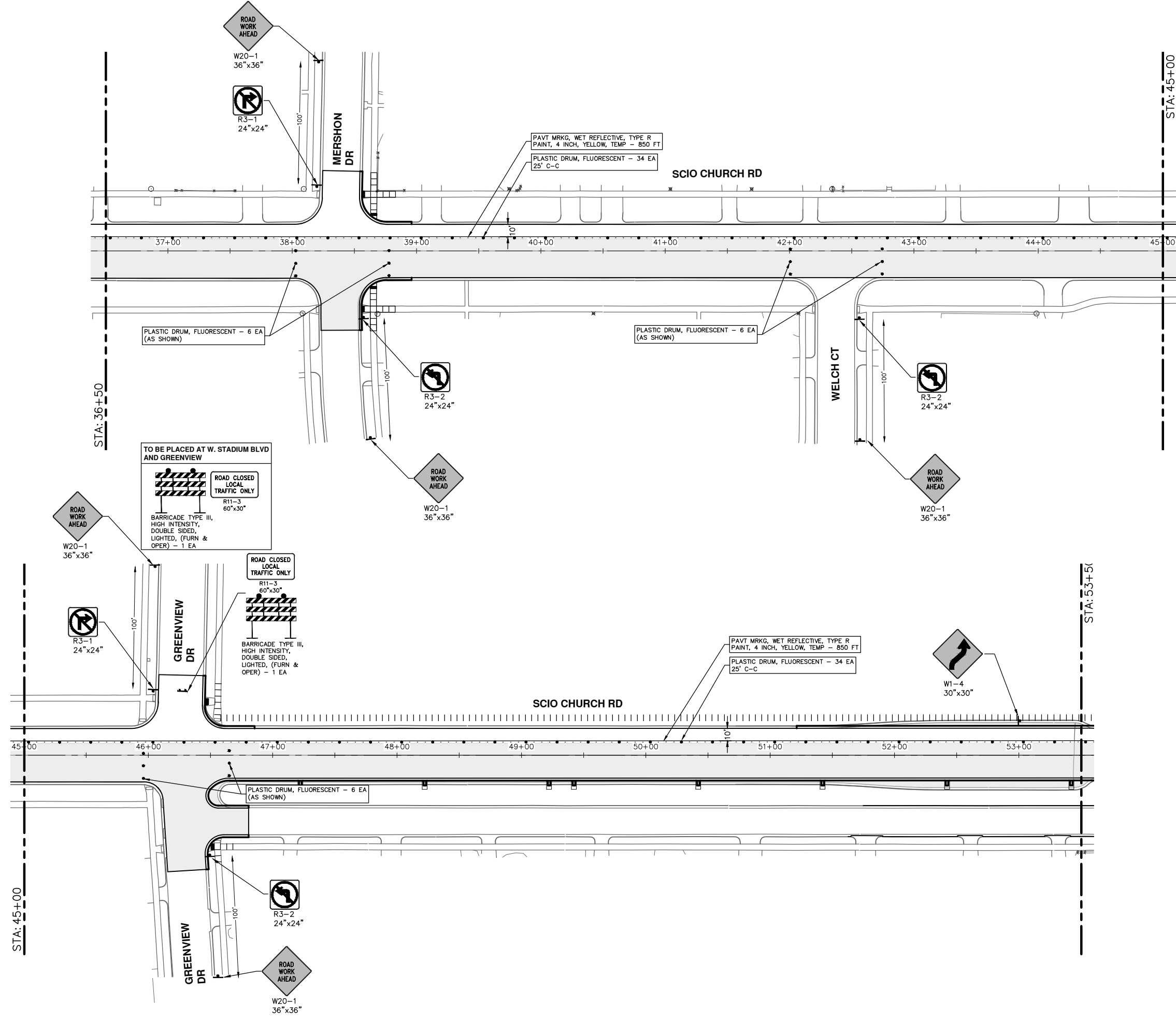
SHEET No. 25 OF 50

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	C.I. SUBMITTAL	10-5-20	CCDF	JKA

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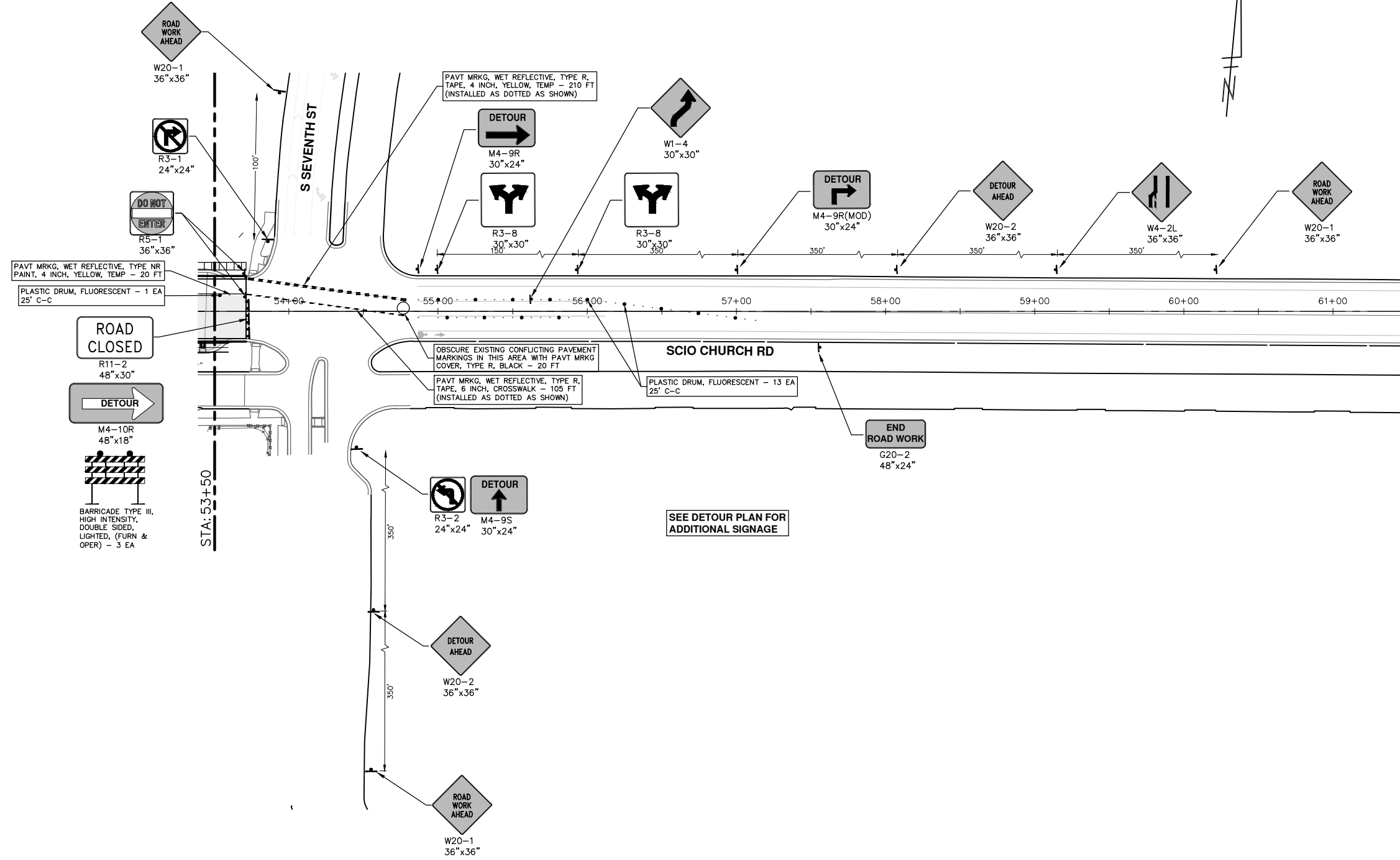


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

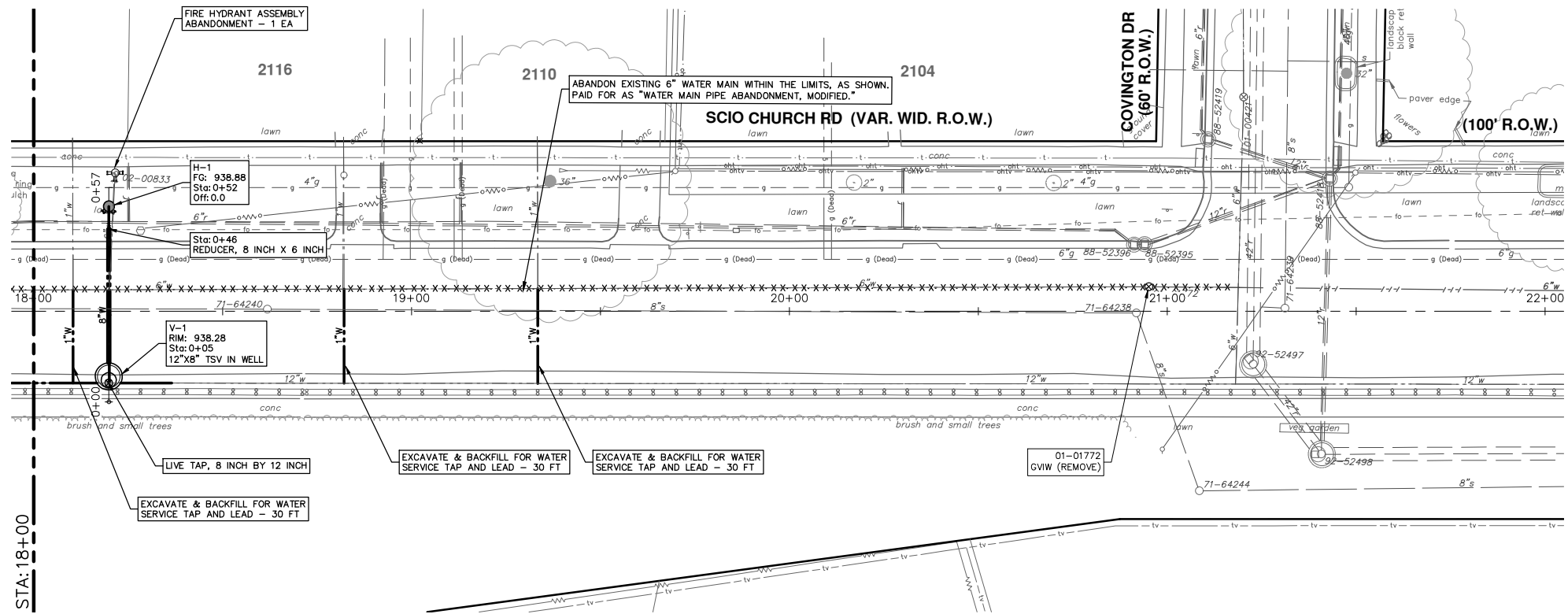
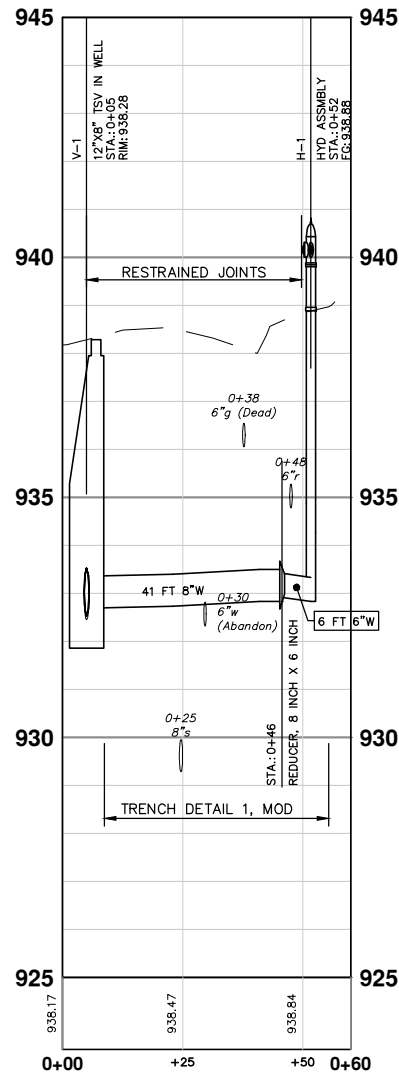
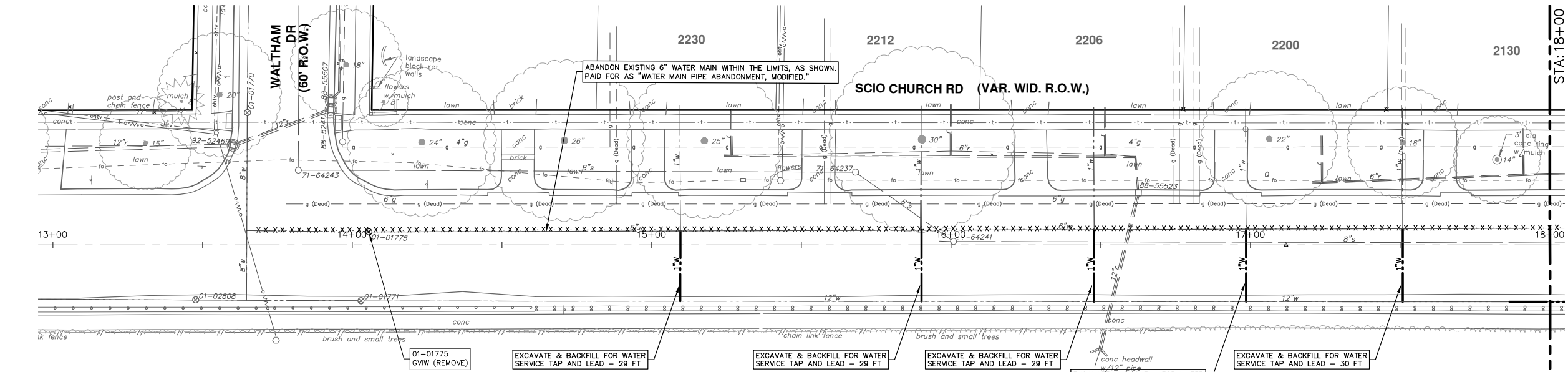
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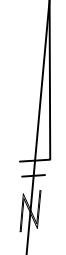
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
MAINTENANCE OF TRAFFIC - PHASE III
STA. 53+50 - P.O.E.

SCALE: 1" = 40'
DRAWING No. 2019029-27

R:\2019029 Scio Church Imp\Plan Production\2019029Watr.dwg Dwg Created: 22-Feb-21 - _a2 standard bw.stb - Plot Date: 20-May-22



THE CONTRACTOR SHALL REMOVE AND ABANDON THE NECESSARY PORTIONS OF THE EXISTING WATER MAINS IN ORDER TO FACILITATE THE PROPOSED WATER MAIN INTER-CONNECTION. ALL COSTS ASSOCIATED WITH PERFORMING THE INTER-CONNECTION, COORDINATING UTILITY SHUTDOWNS, ABANDONING WATER MAIN, RE-ABANDONING THE WATER MAIN AND ALL RELATED WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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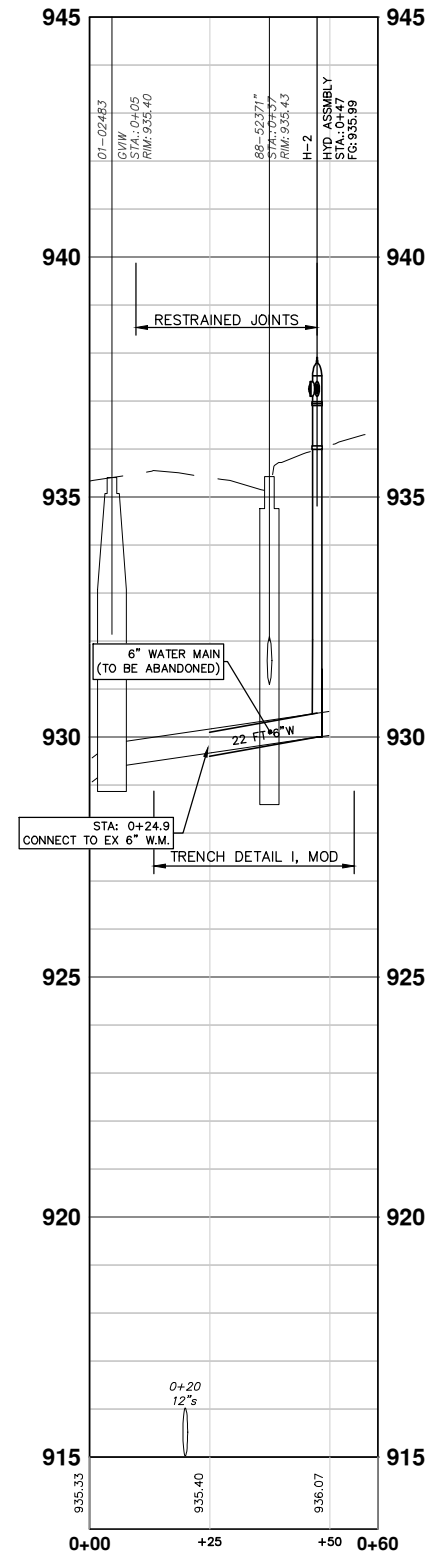
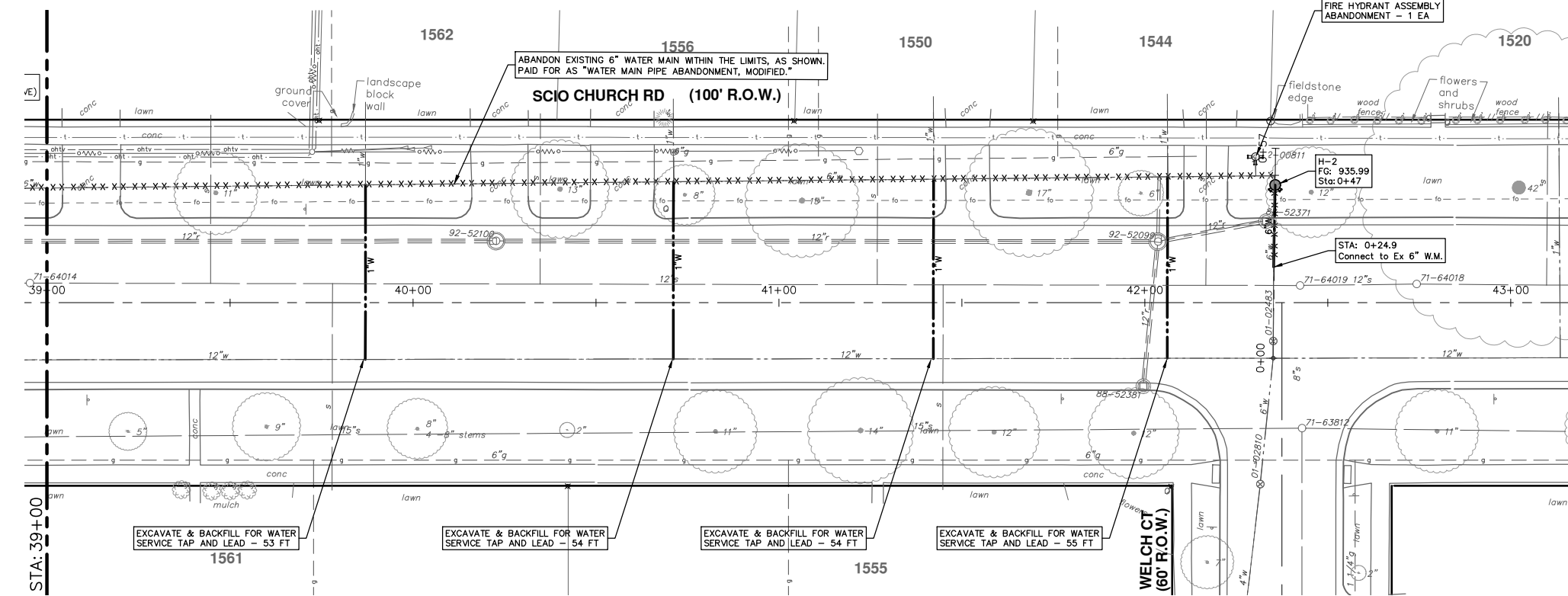
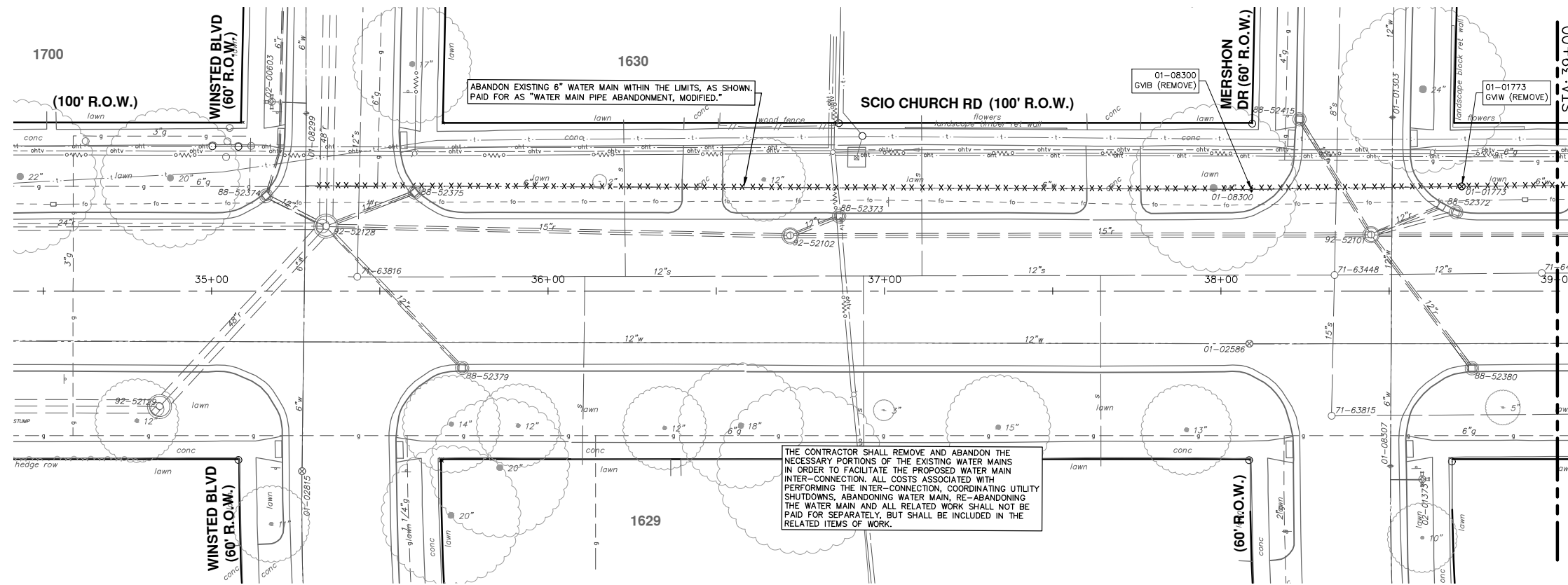


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
WATER MAIN ABANDONMENT AND WATER LEAD TRANSFERS

SHEET No. **28 OF 50**
SCALE: 1" = 20'
DRAWING No. **2019029-28**

STA. 13+65 - STA. 21+19

R:\2019029 Scio Church Imp\Plan Production\2019029Watr.dwg Dwg Created: 22-Feb-21 - _a2 standard b.w.stb - Plot Date: 20-May-22



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

WATER MAIN ABANDONMENT AND WATER LEAD TRANSFERS

SCALE: 1" = 20'

DRAWING NO. 2019029-29

SHEET No. 29 OF 50

STA. 35+28 - STA. 42+35

DATE: 10-5-20

DESCRIPTION: DRAWN

REV. 00 G.I. SUBMITTAL

REV. 01 MDOT FINAL SUBMITTAL

REV. 02 RESPONSE TO FINAL MDOT REVIEW

REV. 03 FINAL RE-SUBMITTAL

05-20-22 CCDF CW

09-07-21 CCDF JKA

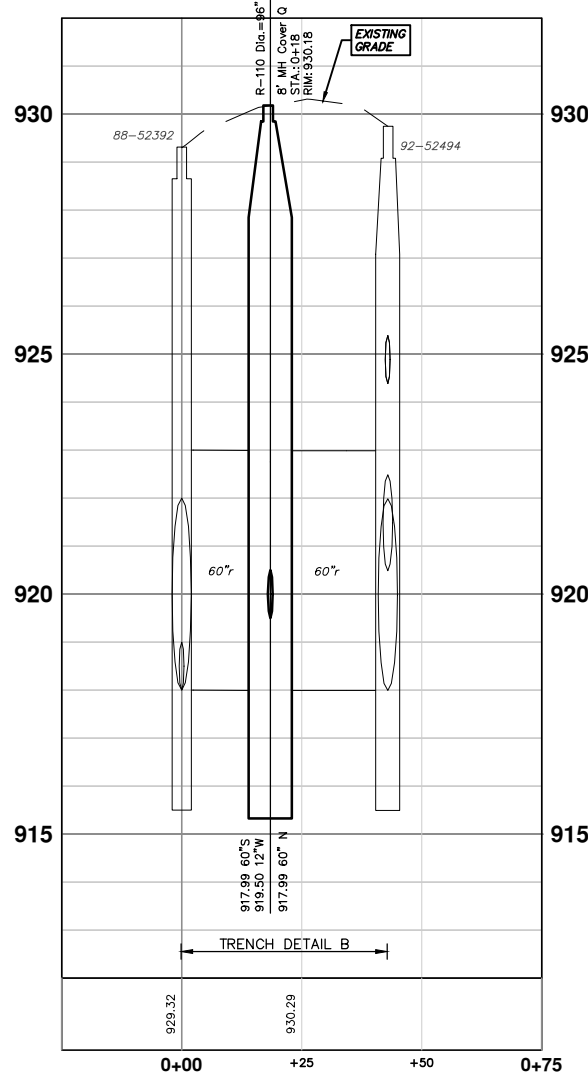
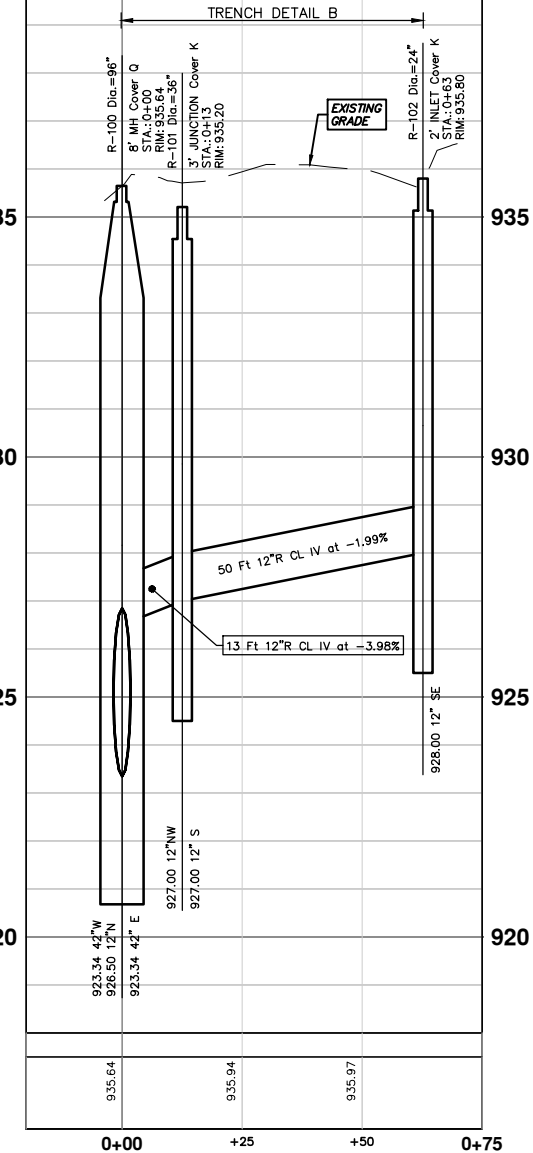
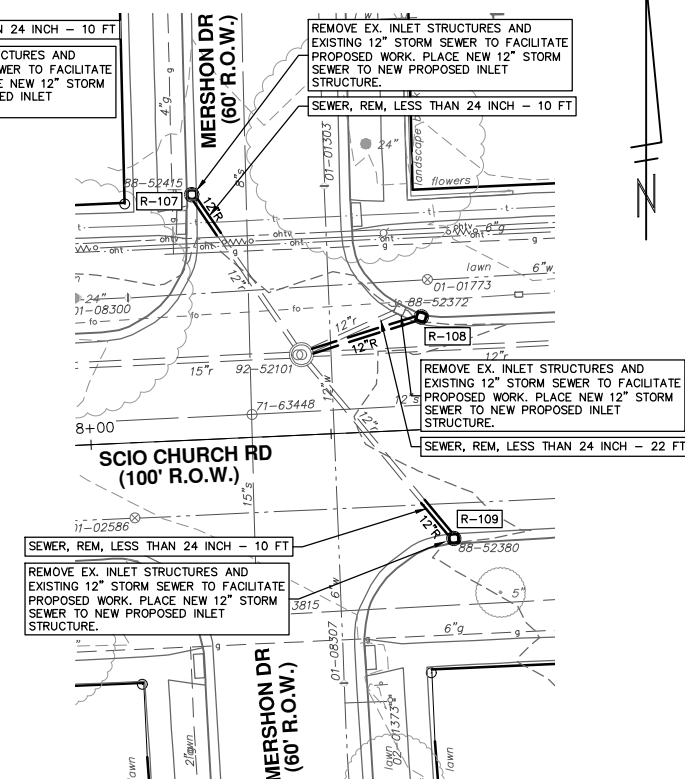
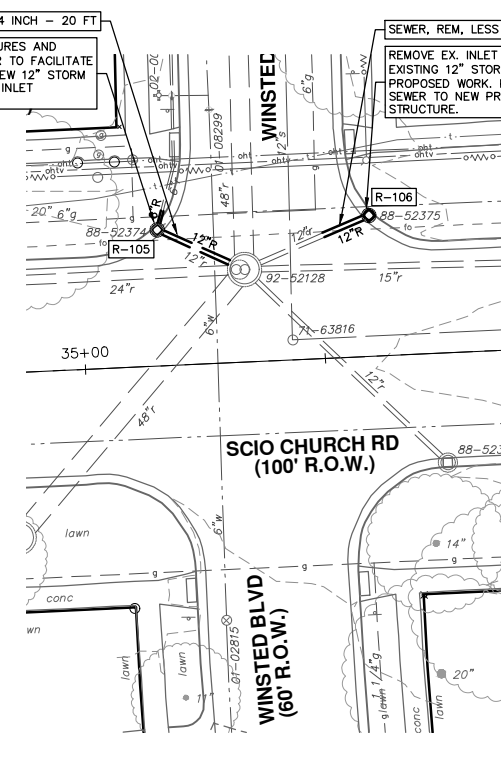
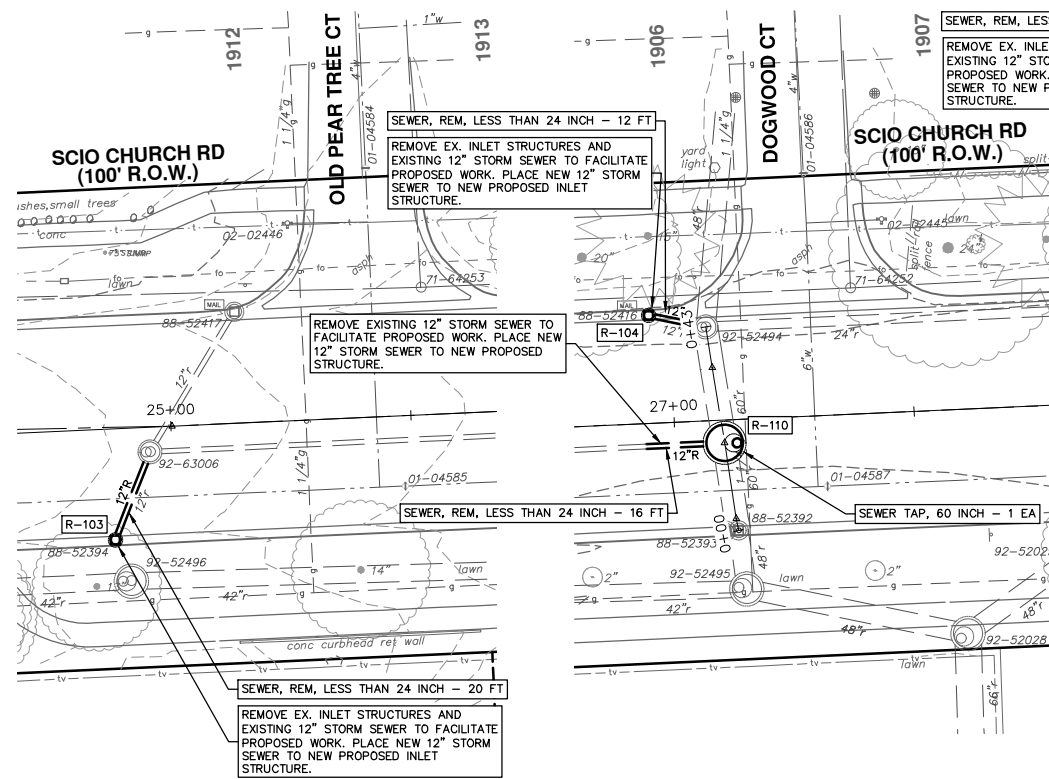
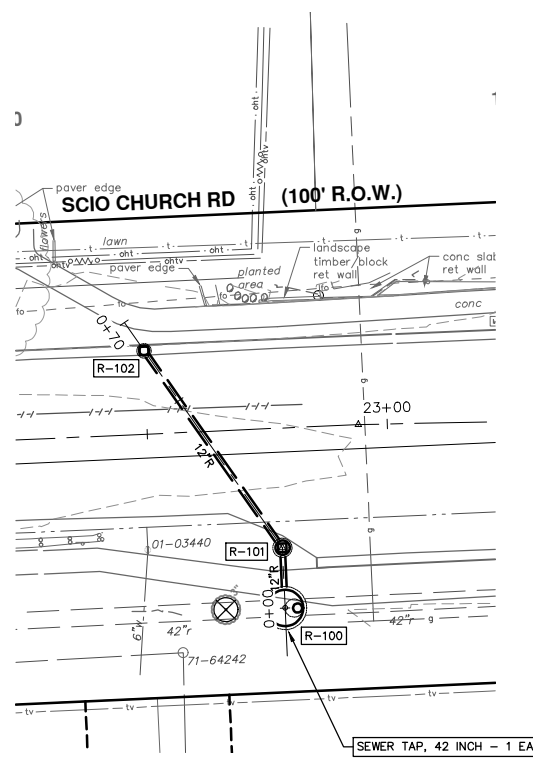
07-23-21 CCDF JKA

10-5-20 CCDF JKA

811

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R:\2019029 Scio Church Imp\Plan Production\2019029Strm.dwg Dwg Created: 20-May-22 - _a2 standard bw.stb - Plot Date: 20-May-22



STRUCTURE	TYPE	RIM	INVERTS	PIPE	DEPTH (Feet)	SUMP
R-103	2' INLET Cover K	933.31	12"N 929.38	20 LF OF 12" @ 2.00%	5.93	2'
R-104	2' INLET Cover K	929.31	12"E 925.73	12 LF OF 12" @ 11.01%	5.58	2'
R-105	2' INLET Cover K	930.91	12"SE 928.71 6"N 929.00	20 LF OF 12" @ 6.31% 4 LF OF 6" @ 2.00%	4.20	2'
R-106	2' INLET Cover K	931.10	12"SW 928.14	10 LF OF 12" @ 2.47%	4.96	2'
R-107	2' INLET Cover K	935.10	12"SE 929.98	10 LF OF 12" @ 0.15%	7.12	2'
R-108	2' INLET Cover K	935.13	12"W 930.32	26 LF OF 12" @ 2.29%	6.81	2'
R-109	2' INLET Cover K	934.61	12"NW 930.31	10 LF OF 12" @ 0.22%	6.30	2'
R-110	8' MH Cover Q	930.18	60"S 917.99 12"W 919.50 60"N 917.99	16 LF OF 12" @ 3.13%	14.19	2'

STRUCTURE	DEPTH (Feet)	REMOVE
88-52375	4.97	12" Drop Structure
88-52394	5.87	12" Drop Structure
88-52380	6.30	12" Drop Structure
88-52372	4.41	12" Drop Structure
88-52415	5.11	12" Drop Structure
88-52374	2.18	12" Drop Structure
88-52416	3.55	12" Drop Structure


STRUCTURE	UTILITY STATION	TYPE	RIM	INVERTS	DEPTH (Feet)	SUMP
R-100	0+00	8' MH Cover Q	935.64	42" E 923.34 42" W 923.34 12" N 926.50	14.30	2'
R-101	0+13	3' JUNCTION Cover K	935.20	12" S 927.00 12" NW 927.00	10.20	2'
R-102	0+63	2' INLET Cover K	935.80	12" SE 928.00	9.80	2'



Know what's below.
Call Before you dig.

REV.	DATE	DESCRIPTION
03	05-20-22	FINAL RE-SUBMITTAL
02	09-07-21	RESPONSE TO FINAL MDT REVIEW
01	07-23-21	MDT FINAL SUBMITTAL
00	10-5-20	C.I. SUBMITTAL

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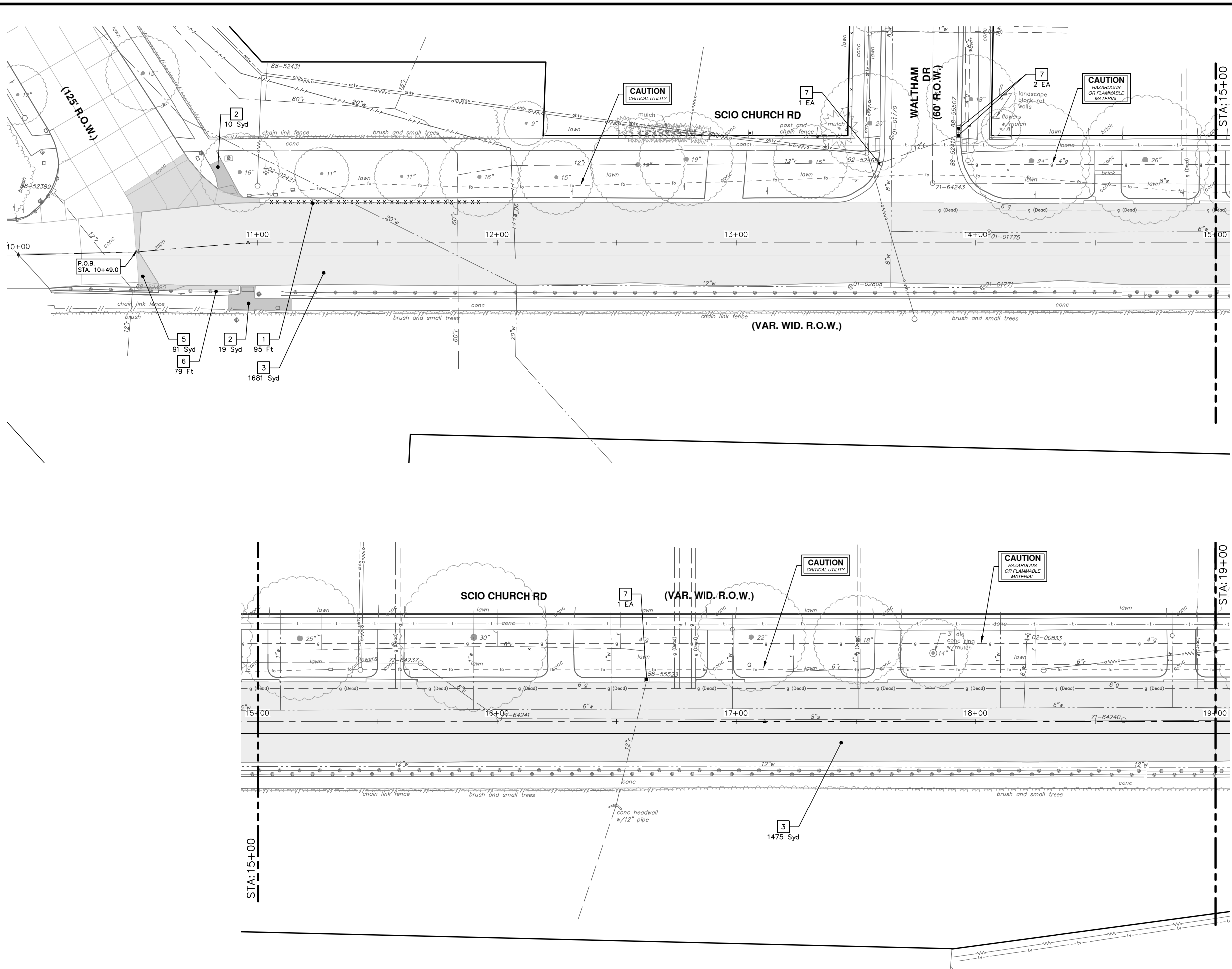


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SCIO CHURCH ROAD IMPROVEMENT PROJECT
PROPOSED STORM SEWER

SCALE PLAN: 1" = 20'
PROFILE: 1" = 2'

DRAWING No. 2019029-30
SHEET No. 30 OF 50

R:\2019029 Scio Church Imp\Plan Production\2019029Rem.dwg Dwg Created: 1-Sep-21 - _o2_standard bw.stb - Plot Date: 20-May-22



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM, MODIFIED
3	COLD MILLING HMA SURFACE
4	HMA SURFACE, REM
5	CONCRETE PAVEMENT, ANY THICKNESS, REM, MODIFIED
6	GUARDRAIL, SALV
7	EROSION CONTROL, INLET FILTER
8	STUMP, REM, 6 INCH TO 18 INCH
9	STUMP, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 37 INCH OR LARGER

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

REMOVALS

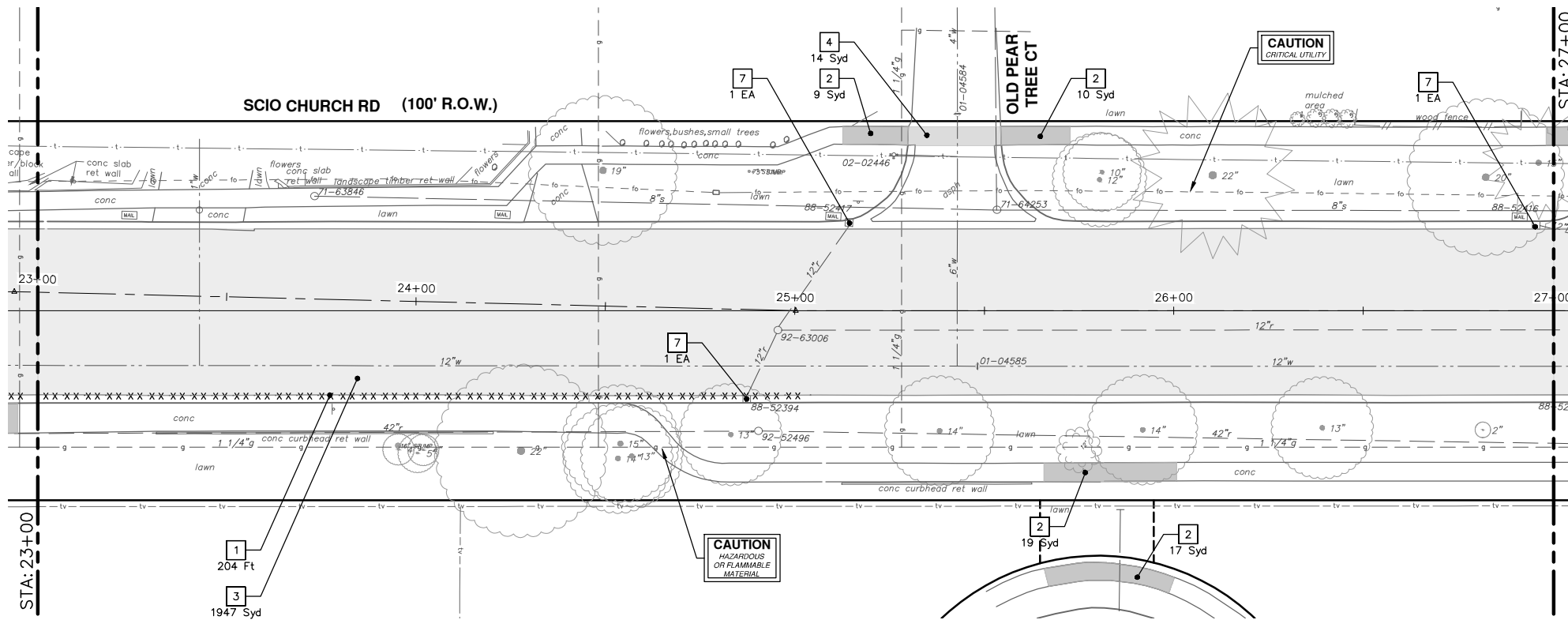
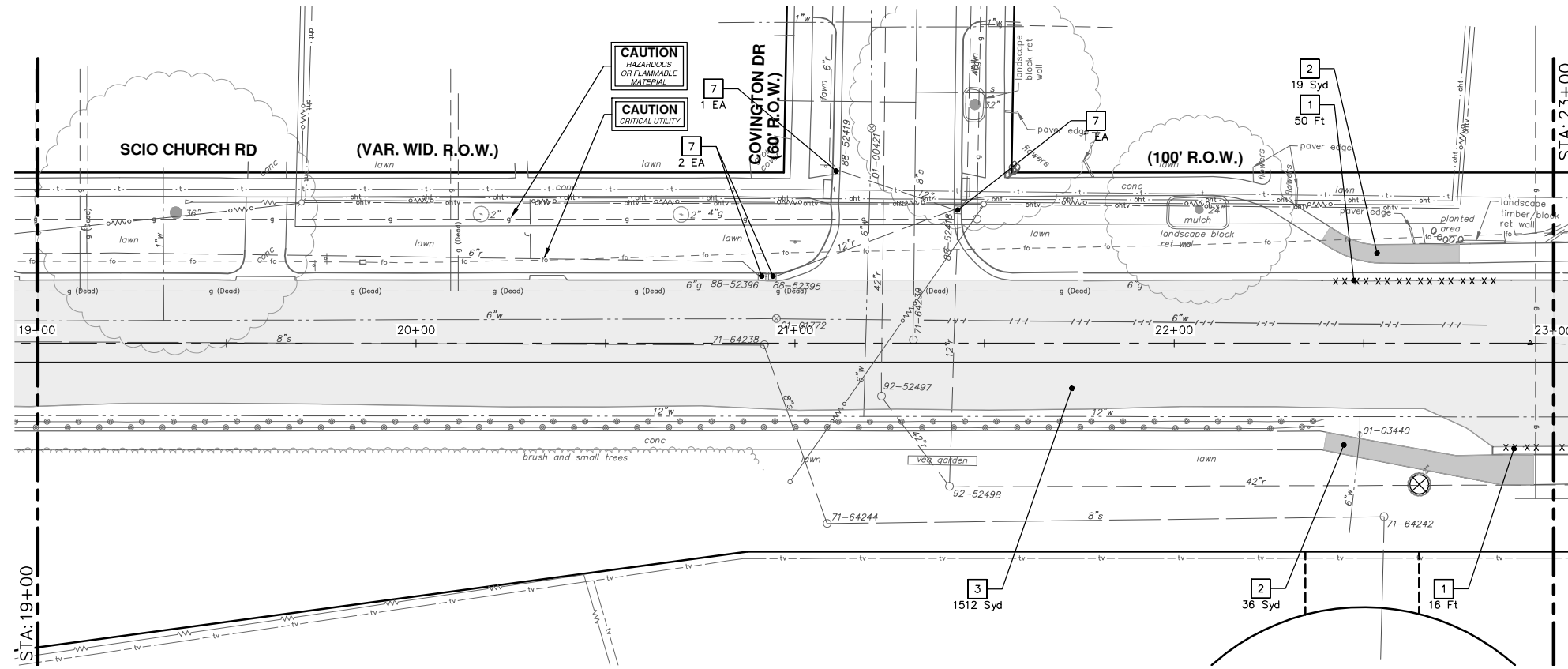
P.O.B. - STA. 19+00

SCALE: 1" = 20'

DRAWING No. 2019029-31

811
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REV.	DATE	DRAWN	CHECKED
03	05-20-22	CCDF	CW
02	09-07-21	CCDF	JKA
01	07-23-21	CCDF	JKA
00	10-5-20	CCDF	JKA



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM, MODIFIED
3	COLD MILLING HMA SURFACE
4	HMA SURFACE, REM
5	CONCRETE PAVEMENT, ANY THICKNESS, REM, MODIFIED
6	GUARDRAIL, SALV
7	EROSION CONTROL, INLET FILTER
8	STUMP, REM, 6 INCH TO 18 INCH
9	STUMP, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 37 INCH OR LARGER



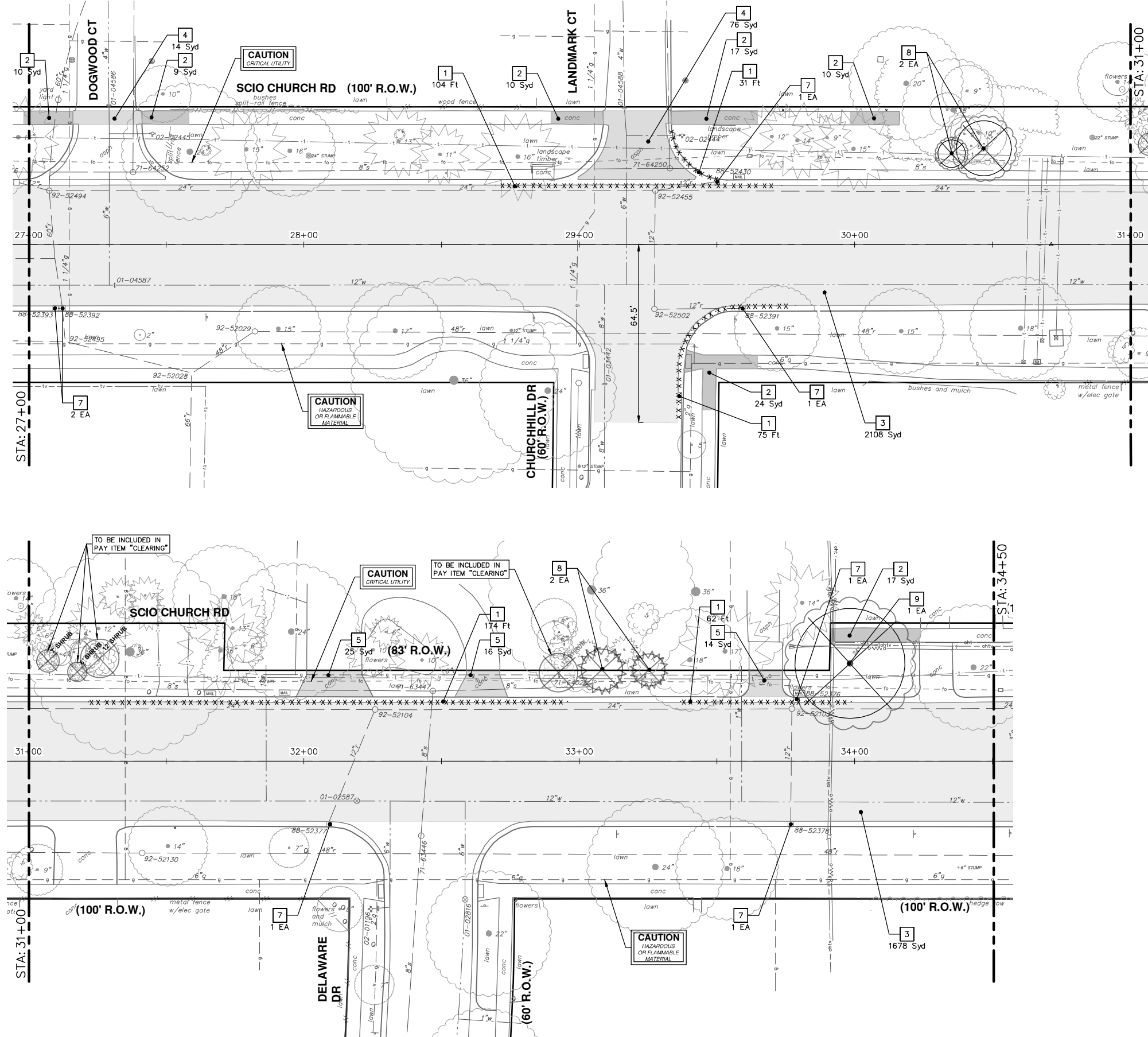
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02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	JKA	CCDF
01	MDOT FINAL SUBMITTAL	07-23-21	JKA	CCDF
00	G.I. SUBMITTAL	10-5-20	JKA	CCDF

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REMOVALS

SHEET No. 32 OF 50
SCALE: 1" = 20'
DRAWING No. 2019029-32



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM, MODIFIED
3	COLD MILLING HMA SURFACE
4	HMA SURFACE, REM
5	CONCRETE PAVEMENT, ANY THICKNESS, REM, MODIFIED
6	GUARDRAIL, SALV
7	EROSION CONTROL, INLET FILTER
8	STUMP, REM, 6 INCH TO 18 INCH
9	STUMP, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 37 INCH OR LARGER



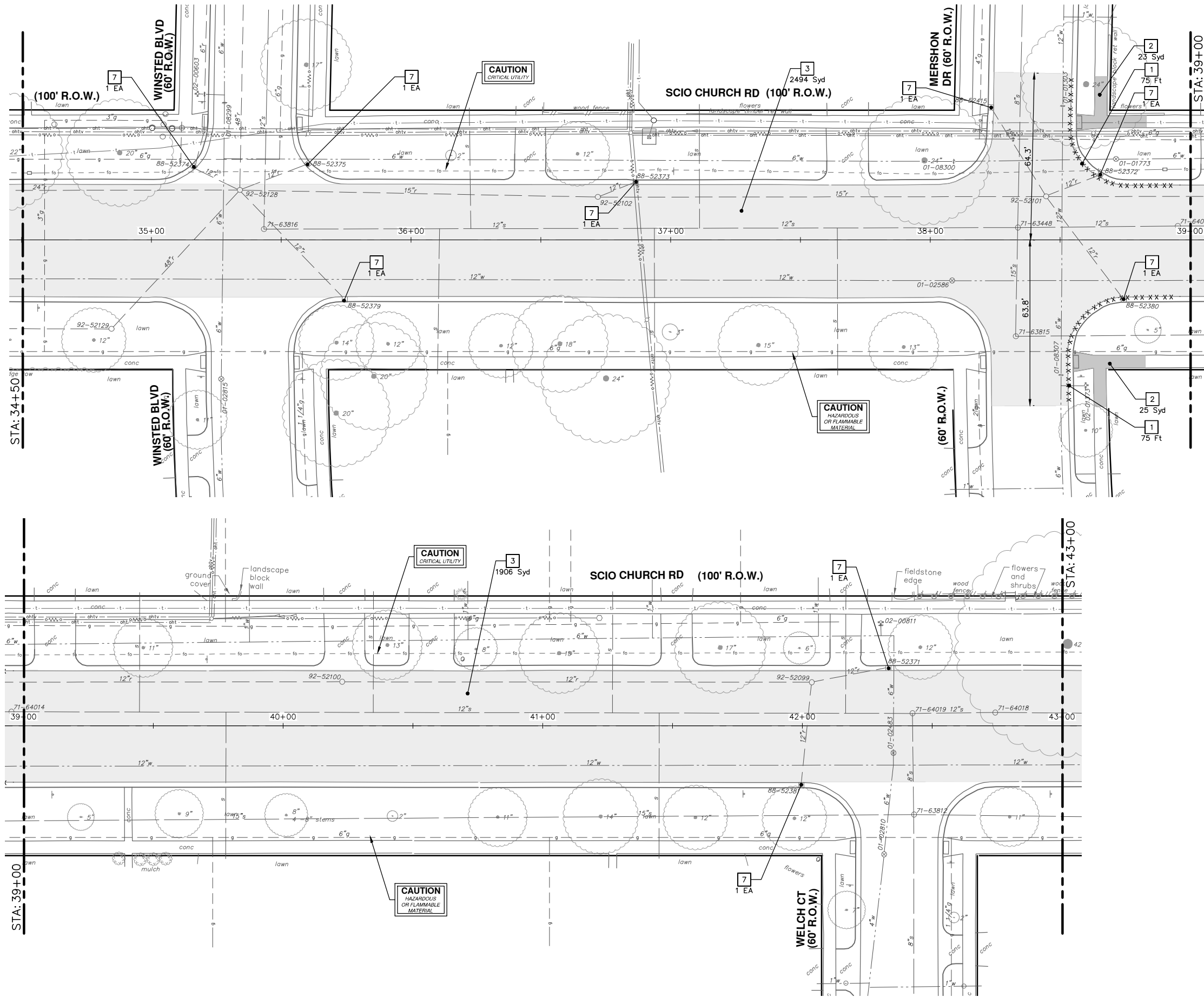
REV.	DESCRIPTION	DATE	CHECKED	DRAWN
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	C.I. SUBMITTAL	10-5-20	CCDF	JKA

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SCIO CHURCH ROAD IMPROVEMENT PROJECT
REMOVALS

SCALE: 1" = 20'
DRAWING No. 2019029-33



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM, MODIFIED
3	COLD MILLING HMA SURFACE
4	HMA SURFACE, REM
5	CONCRETE PAVEMENT, ANY THICKNESS, REM, MODIFIED
6	GUARDRAIL, SALV
7	EROSION CONTROL, INLET FILTER
8	STUMP, REM, 6 INCH TO 18 INCH
9	STUMP, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 37 INCH OR LARGER



Know what's below.
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	C.I. SUBMITTAL	10-5-20	CCDF	JKA

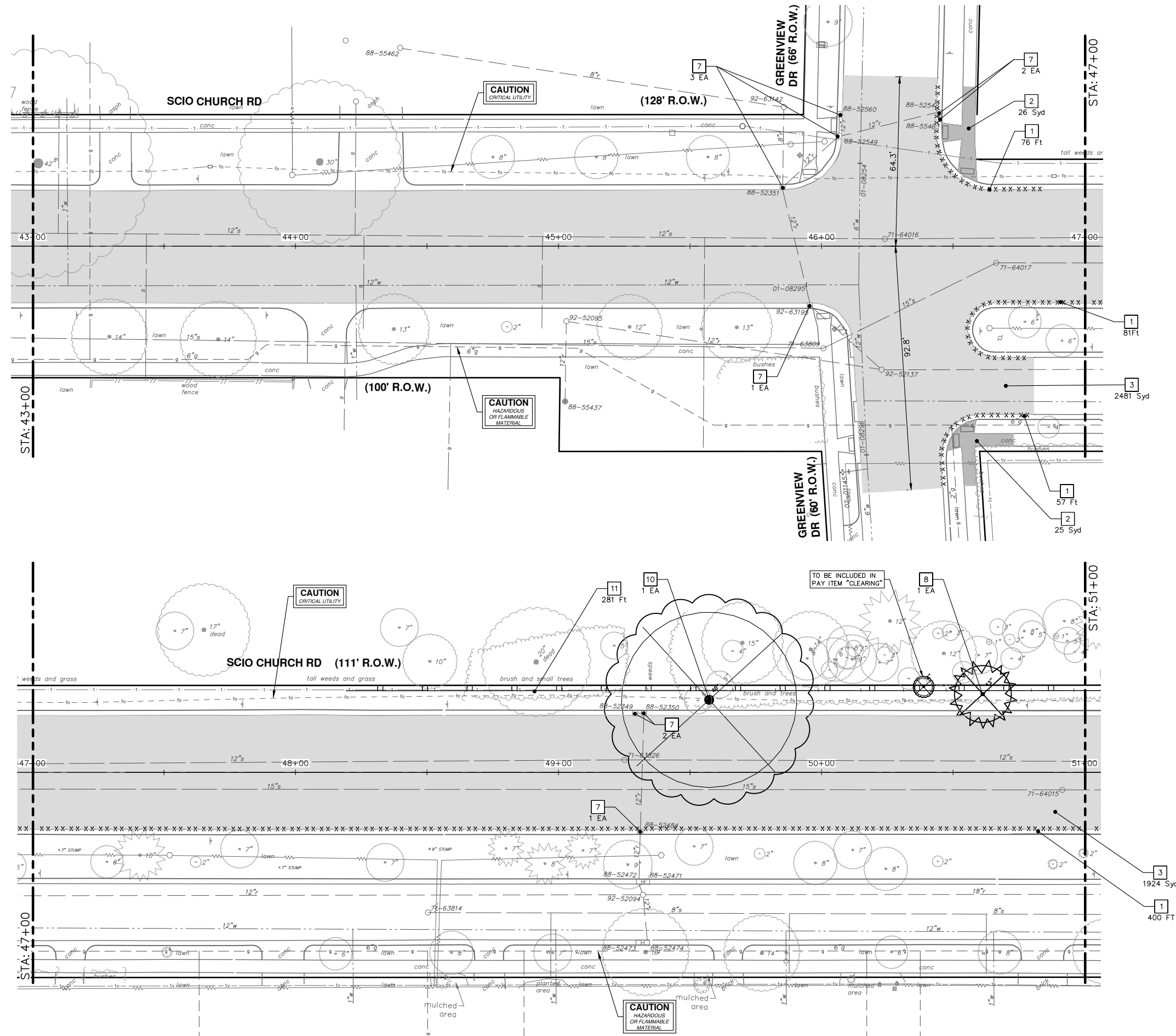
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
REMOVALS

SHEET No. **34 OF 50**
SCALE: 1" = 20'
DRAWING No. **2019029-34**
STA. 34+50 - STA. 43+00

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REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM, MODIFIED
3	COLD MILLING HMA SURFACE
4	HMA SURFACE, REM
5	CONCRETE PAVEMENT, ANY THICKNESS, REM, MODIFIED
6	GUARDRAIL, SALV
7	EROSION CONTROL, INLET FILTER
8	STUMP, REM, 6 INCH TO 18 INCH
9	STUMP, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 37 INCH OR LARGER
11	EROSION CONTROL, SILT FENCE (EXCLUSIONARY FENCE)

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

REMOVALS

SCALE: 1" = 20'

DRAWING No. 2019029-35

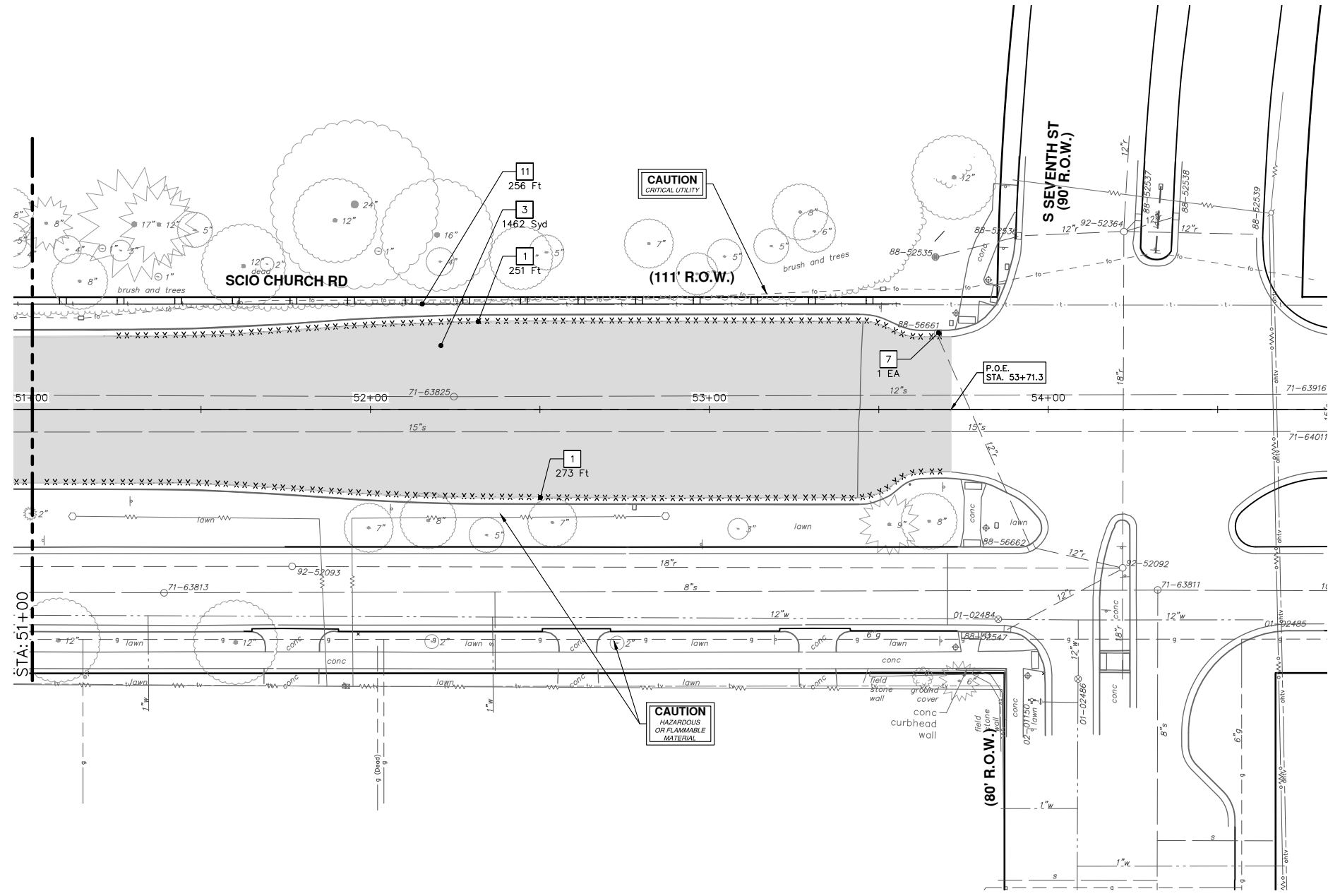
SHEET No. 35 OF 50

STA. 43+00 - STA. 51+00

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CC,DF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CC,DF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CC,DF	JKA
00	G.I. SUBMITTAL	10-5-20	CC,DF	JKA



REMOVAL KEY	
KEY	DESCRIPTION
1	CURB AND GUTTER, REM
2	SIDEWALK, REM, MODIFIED
3	COLD MILLING HMA SURFACE
4	HMA SURFACE, REM
5	CONCRETE PAVEMENT, ANY THICKNESS, REM, MODIFIED
6	GUARDRAIL, SALV
7	EROSION CONTROL, INLET FILTER
8	STUMP, REM, 6 INCH TO 18 INCH
9	STUMP, REM, 19 INCH TO 36 INCH
10	STUMP, REM, 37 INCH OR LARGER
11	EROSION CONTROL, SILT FENCE (EXCLUSIONARY FENCE)



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

REMOVALS

STA. 51+00 - P.O.E.

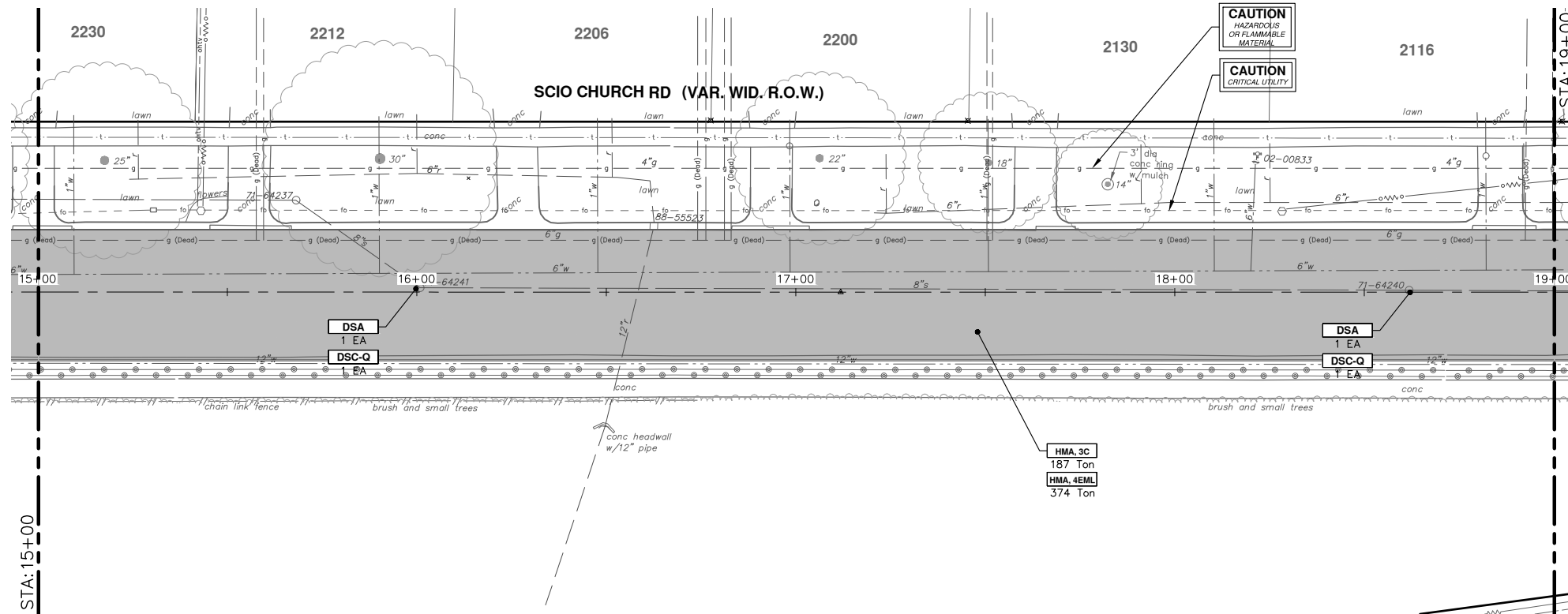
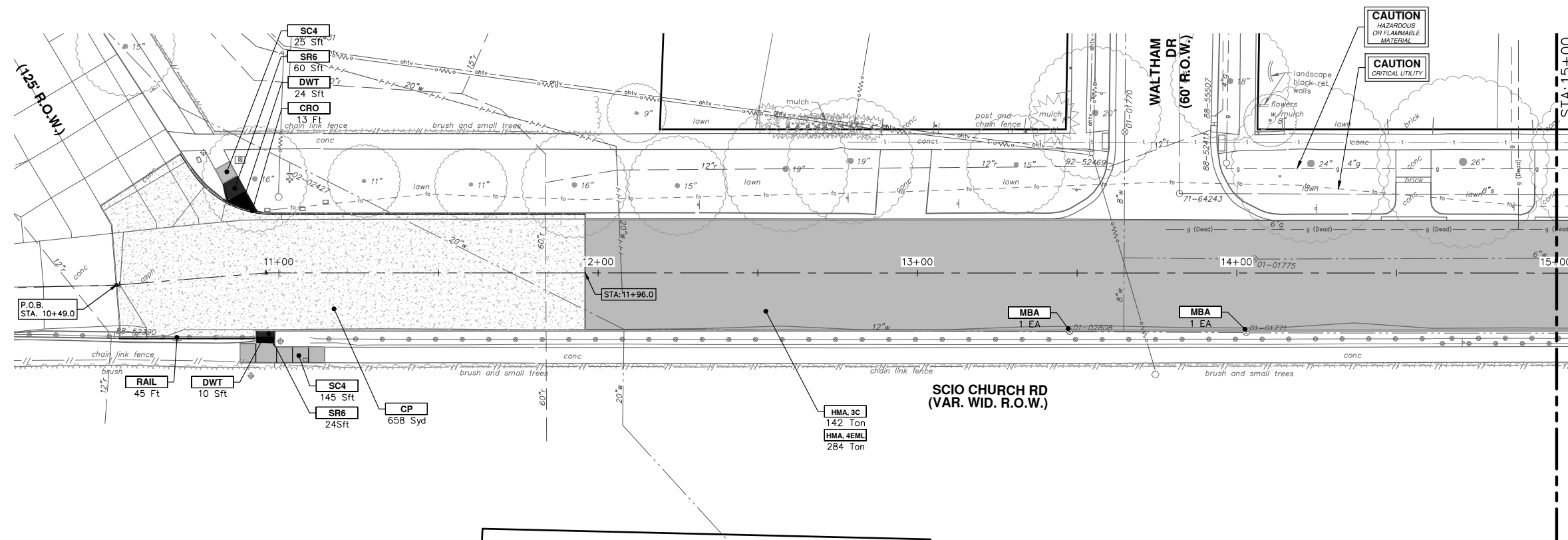
SCALE: 1" = 20'

DRAWING No. 2019029-36

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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CC,DF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CC,DF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CC,DF	JKA
00	G.I. SUBMITTAL	10-5-20	CC,DF	JKA

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CONSTRUCTION KEY	
KEY	DESCRIPTION
CP	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL
CRO	CURB RAMP OPENING, CONC
APP	HMA APPROACH
SR6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED
SC4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SC6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWT	DETECTABLE WARNING TILES
HMA	HMA, 4EML / 3C
DSC-Q	DR STRUCTURE COVER, TYPE Q
DSC-K	DR STRUCTURE COVER, TYPE K
ABO	ADJUST BY OTHERS
DSA	DR STRUCTURE COVER, ADJ, CASE 1
MBA	ADJUST MONUMENT BOX OR VALVE BOX
DOM	DRIVEWAY OPENING, CONC, DET M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CP, OR AGGREGATE BASE, 6 INCH
SPW	SPILLWAY, CONC, MODIFIED
INF	INFILTRATION TRENCH
MON	MONUMENT PRESERVATION
TURF	TOPSOIL SURFACE, FURN, 4 INCH
RAIL	RUB RAIL



Know what's below. Call Before you dig.

REV.	DATE	DRAWN	CHECKED	DESCRIPTION
03	05-20-22	CCDF	CW	FINAL RE-SUBMITTAL
02	09-07-21	CCDF	JKA	RESPONSE TO FINAL MDT REVIEW
01	07-23-21	CCDF	JKA	MDT FINAL SUBMITTAL
00	10-5-20	CCDF	JKA	G.I. SUBMITTAL

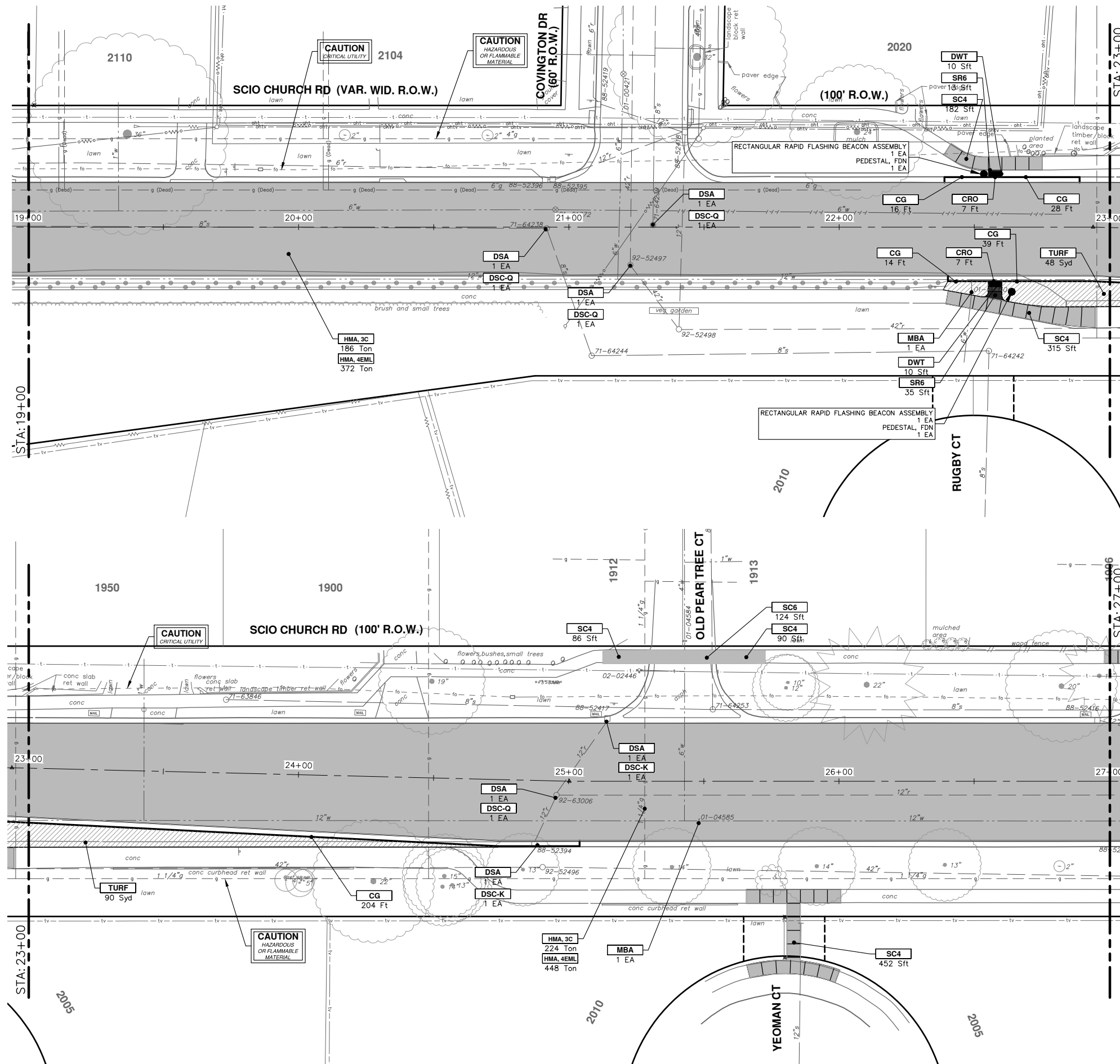
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
ROAD PLANS
P.O.B. - STA. 19+00

SHEET No. 37 OF 50
DRAWING No. 2019029-37

R:\2019029 Scio Church Imp\Plan Production\2019029Road.dwg Dwg Created: 20-May-22 - _a2 standard bw.stb - Plot Date: 25-May-22



CONSTRUCTION KEY

KEY	DESCRIPTION
CP	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL
CRO	CURB RAMP OPENING, CONC
APP	HMA APPROACH
SR6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED
SC4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SC6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWT	DETECTABLE WARNING TILES
HMA	HMA, 4EML / 3C
DSC-Q	DR STRUCTURE COVER, TYPE Q
DSC-K	DR STRUCTURE COVER, TYPE K
ABO	ADJUST BY OTHERS
DSA	DR STRUCTURE COVER, ADJ, CASE 1
MBA	ADJUST MONUMENT BOX OR VALVE BOX
DOM	DRIVEWAY OPENING, CONC, DET M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH, PLACE AND COMPACT 6 INCH SUBBASE, OIP, OR AGGREGATE BASE, 6 INCH
SPW	SPILLWAY, CONC, MODIFIED
INF	INFILTRATION TRENCH
MON	MONUMENT PRESERVATION
TURF	TOPSOIL SURFACE, FURN, 4 INCH
RAIL	RUB RAIL



Know what's below. Call Before you dig.

REV.	DATE	DESCRIPTION
03	05-20-22	FINAL RE-SUBMITTAL
02	09-07-21	RESPONSE TO FINAL MDOT REVIEW
01	07-23-21	MDOT FINAL SUBMITTAL
00	10-5-20	G.I. SUBMITTAL

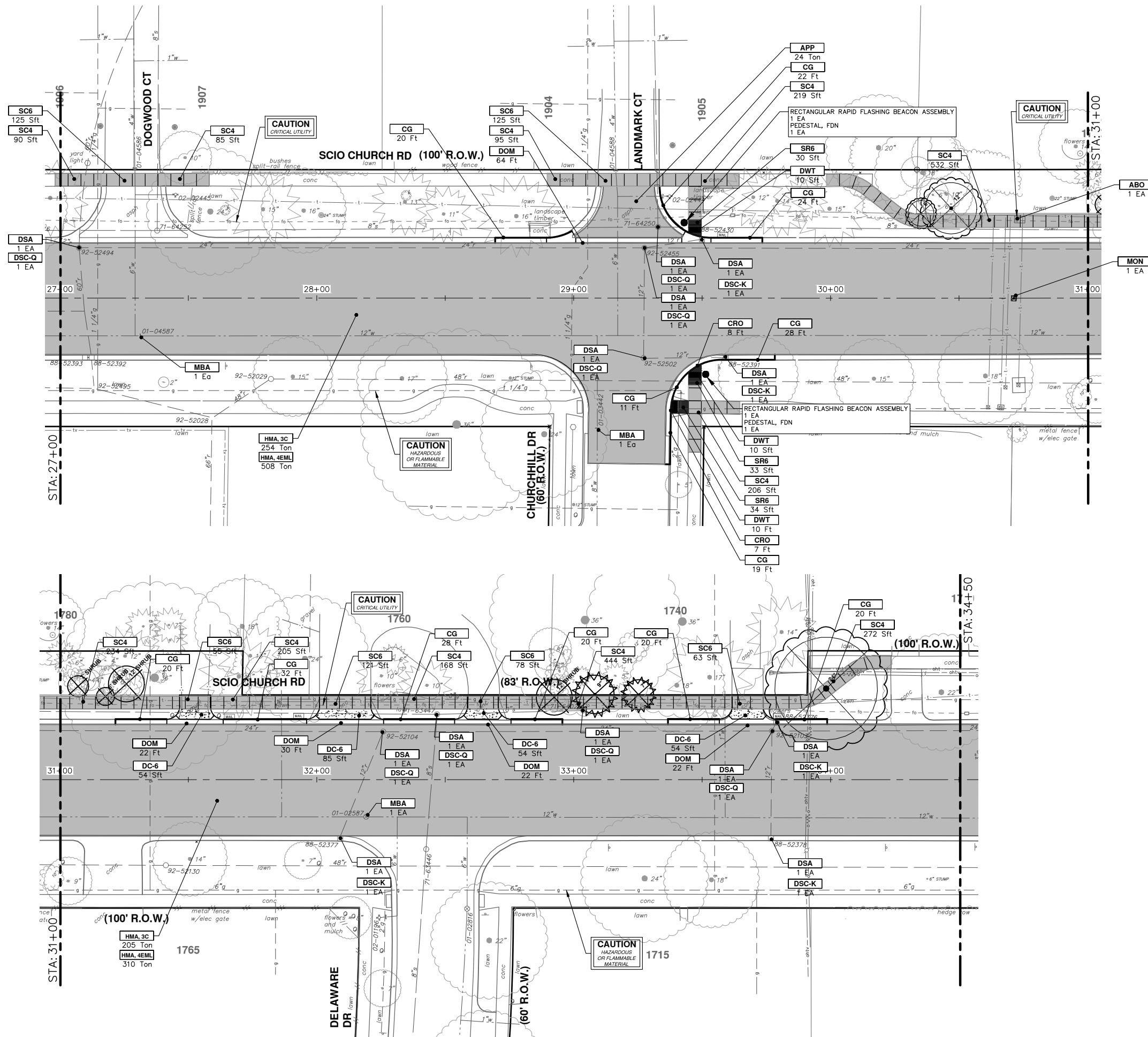
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
ROAD PLANS

SHEET No. **38 OF 50**
SCALE: 1" = 20'
DRAWING No. **2019029-38**

STA. 19+00 - STA. 27+00



CONSTRUCTION KEY	
KEY	DESCRIPTION
CP	CONC PAVT WITH INTEGRAL CURB, NONREIN, 9 INCH
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL
CRO	CURB RAMP OPENING, CONC
APP	HMA APPROACH
SR6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED
SC4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SC6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWT	DETECTABLE WARNING TILES
HMA	HMA, 4EML / 3C
DSC-Q	DR STRUCTURE COVER, TYPE Q
DSC-K	DR STRUCTURE COVER, TYPE K
ABO	ADJUST BY OTHERS
DSA	DR STRUCTURE COVER, ADJ, CASE 1
MBA	ADJUST MONUMENT BOX OR VALVE BOX
DOM	DRIVEWAY OPENING, CONC, DET M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, OR AGGREGATE BASE, 6 INCH
SPW	SPILLWAY, CONC, MODIFIED
INF	INFILTRATION TRENCH
MON	MONUMENT PRESERVATION
TURF	TOPSOIL SURFACE, FURN, 4 INCH
RAIL	RUB RAIL

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

ROAD PLANS

SCALE: 1" = 20'

DRAWING No. 2019029-39

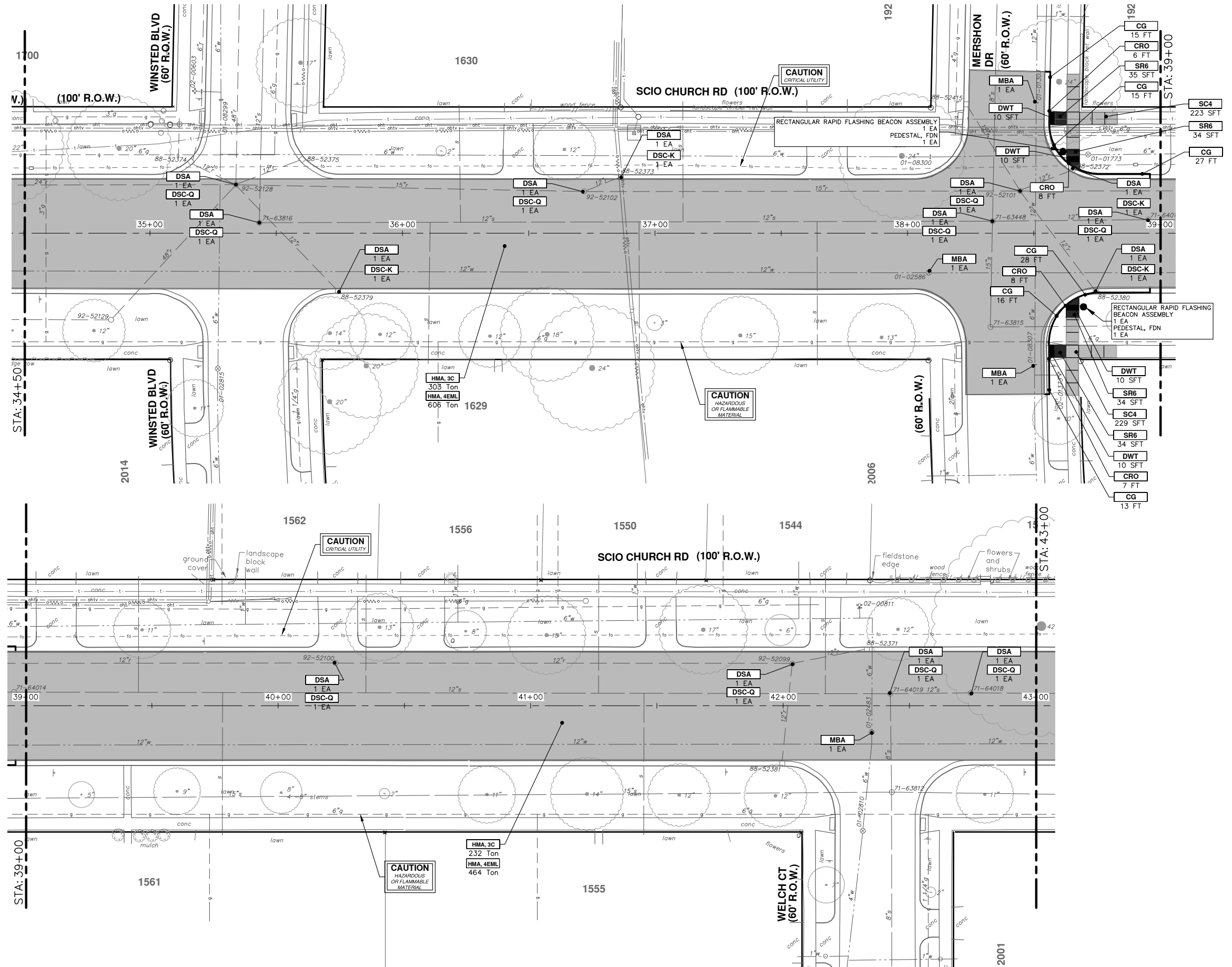
SHEET No. 39 OF 50

STA. 27+00 - STA. 34+50

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

R:\2019029 Scio Church Imp\Plan Production\2019029Road.dwg Dwg Created: 20-May-22 - _a2 standard bw.stb - Plot Date: 25-May-22



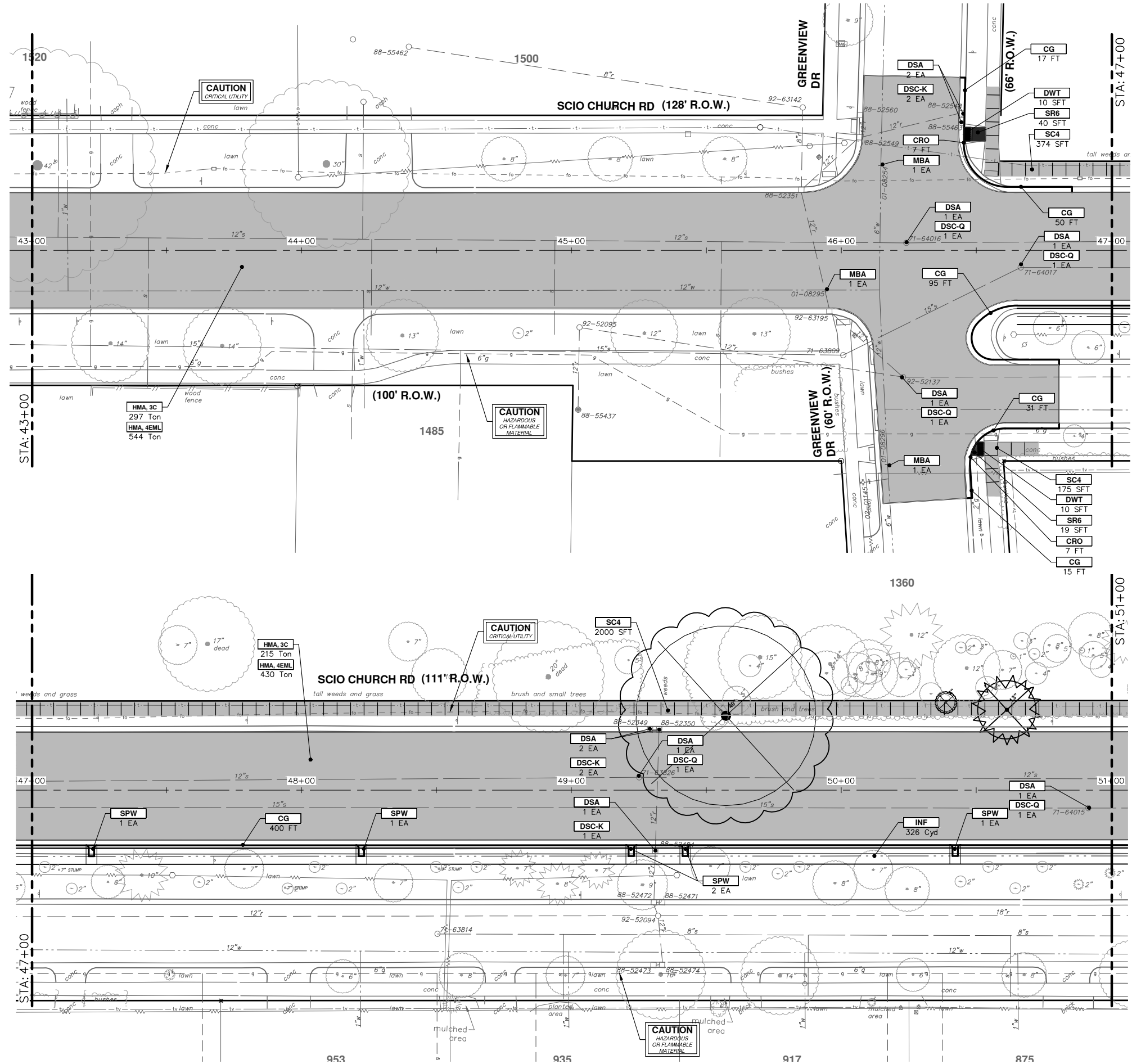
CONSTRUCTION KEY	
KEY	DESCRIPTION
CP	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL
CRO	CURB RAMP OPENING, CONC
APP	HMA APPROACH
SR6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED
SC4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SC6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWT	DETECTABLE WARNING TILES
HMA	HMA, 4EML / 3C
DSC-Q	DR STRUCTURE COVER, TYPE Q
DSC-K	DR STRUCTURE COVER, TYPE K
ABO	ADJUST BY OTHERS
DSA	DR STRUCTURE COVER, ADJ, CASE 1
MBA	ADJUST MONUMENT BOX OR VALVE BOX
DOM	DRIVEWAY OPENING, CONC, DET M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, OR AGGREGATE BASE, 6 INCH
SPW	SPILLWAY, CONC, MODIFIED
INF	INFILTRATION TRENCH
MON	MONUMENT PRESERVATION
TURF	TOPSOIL SURFACE, FURN, 4 INCH
RAIL	RUB RAIL



REV.	DATE	DESCRIPTION
03	05-20-22	FINAL RE-SUBMITTAL
02	09-07-21	RESPONSE TO FINAL MDOT REVIEW
01	07-23-21	MDOT FINAL SUBMITTAL
00	10-5-20	G.I. SUBMITTAL

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SCIO CHURCH ROAD IMPROVEMENT PROJECT
ROAD PLANS
STA. 34+50 - STA. 43+00



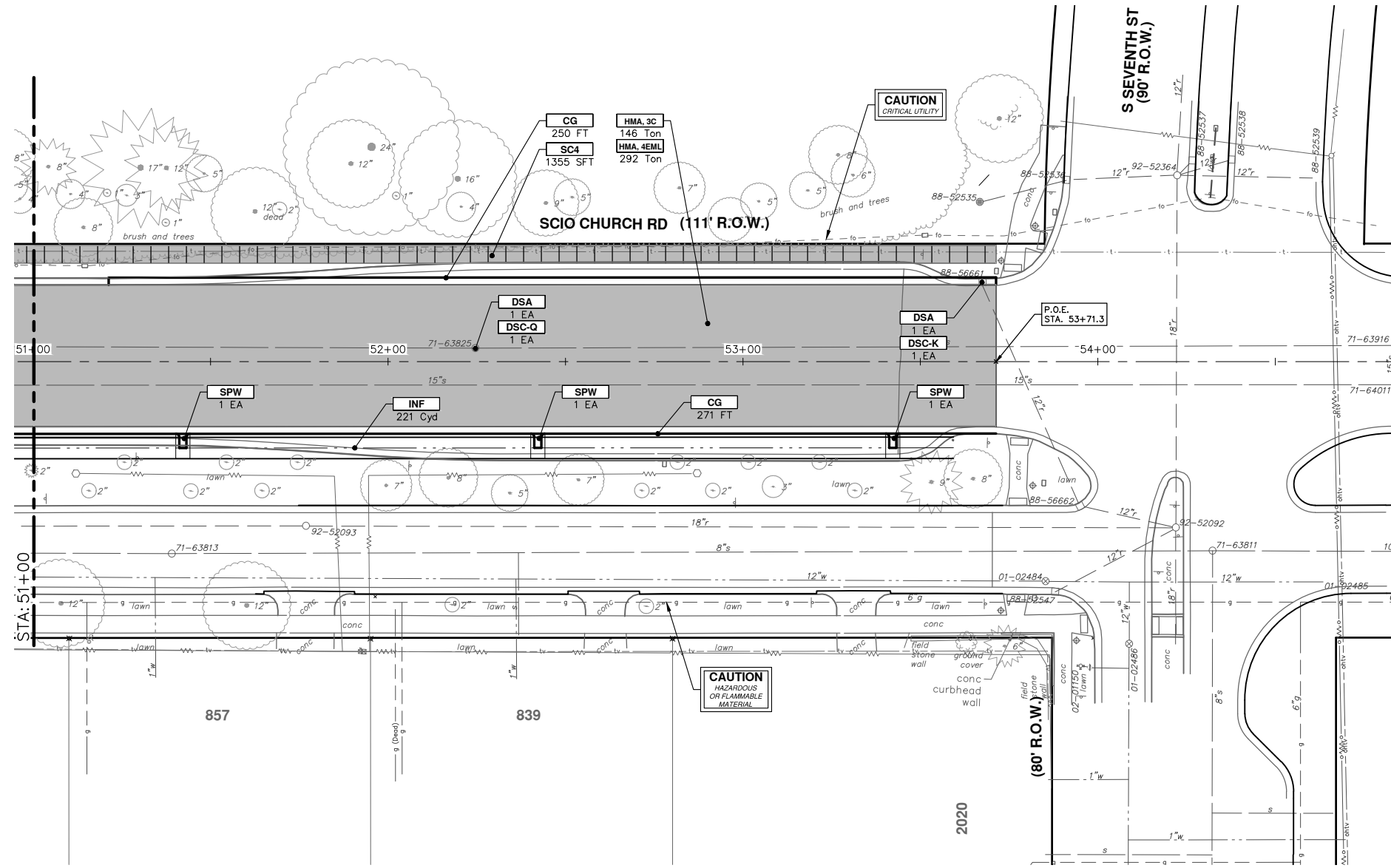
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
 ROAD PLANS

SCALE: 1" = 20'
 DRAWING No. 2019029-41



REV.	DATE	DESCRIPTION
03	05-20-22	FINAL RE-SUBMITTAL
02	09-07-21	RESPONSE TO FINAL MDOT REVIEW
01	07-23-21	MDOT FINAL SUBMITTAL
00	10-5-20	G.I. SUBMITTAL

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CONSTRUCTION KEY	
KEY	DESCRIPTION
CP	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH
CG	CURB AND GUTTER, CONC, DET F4, SPECIAL
CRO	CURB RAMP OPENING, CONC
APP	HMA APPROACH
SR6	SIDEWALK RAMP, CONCRETE, 6 INCH, P-NC, ADA, MODIFIED
SC4	SIDEWALK, CONCRETE, 4 INCH, SPECIAL
SC6	SIDEWALK, CONCRETE, 6 INCH, SPECIAL
DWT	DETECTABLE WARNING TILES
HMA	HMA, 4EML / 3C
DSC-Q	DR STRUCTURE COVER, TYPE Q
DSC-K	DR STRUCTURE COVER, TYPE K
ABO	ADJUST BY OTHERS
DSA	DR STRUCTURE COVER, ADJ. CASE 1
MBA	ADJUST MONUMENT BOX OR VALVE BOX
DOM	DRIVEWAY OPENING, CONC, DET M, P-NC
DC-6	PLACE CONC, DRIVE APPROACH, NON-REINFORCED, P-NC, 6 INCH. PLACE AND COMPACT 6 INCH SUBBASE, CIP, OR AGGREGATE BASE, 6 INCH
SPW	SPILLWAY, CONC, MODIFIED
INF	INFILTRATION TRENCH
MON	MONUMENT PRESERVATION
TURF	TOPSOIL SURFACE, FURN, 4 INCH
RAIL	RUB RAIL

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCIO CHURCH ROAD IMPROVEMENT PROJECT

ROAD PLANS

STA. 51+00 - P.O.E.

SCALE: 1" = 20'

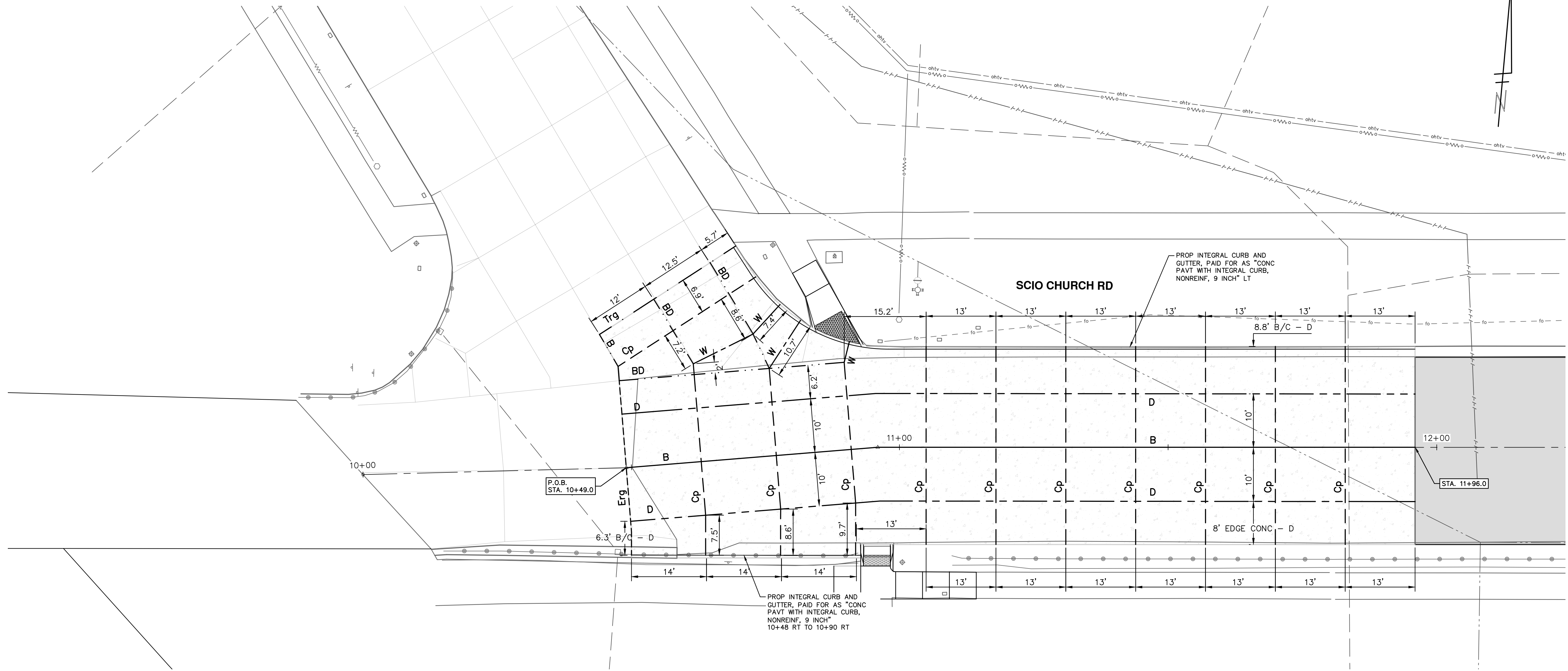
DRAWING No. 2019029-42

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

03	FINAL RE-SUBMITTAL	05-20-22	CC,DF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CC,DF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CC,DF	JKA
00	G.I. SUBMITTAL	10-5-20	CC,DF	JKA

DATE DRAWN CHECKED

R:\2019029 Scio Church Imp\Plan Production\2019029Conc.dwg Dwg Created: 22-Feb-21 - _a2_standard bw.stb - Plot Date: 25-May-22



JOINT LAYOUT KEY

---	JOINT, CONTRACTION, Cp
- - -	JOINT, EXPANSION, Erg
— · — · — ·	JOINT, PLANE-OF-WEAKNESS, W
— · — · — ·	JOINT, TIED, Trg
—	LONGITUDINAL JOINT, B
- · - · - · - · - · - ·	LONGITUDINAL JOINT, BD
---	LONGITUDINAL JOINT, D

QUANTITIES THIS SHEET

JOINT TYPE	TOTAL (FT)
Conc-Joint-Cp	393
Conc-Joint-Erg	33
Conc-Joint-Trg	31
Conc-Joint-W	35

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SCIO CHURCH ROAD IMPROVEMENT PROJECT


ROAD PLANS

CONCRETE JOINTING PLAN

SCALE: 1" = 10'

DRAWING No. 2019029-43

SHEET No. 43 OF 50

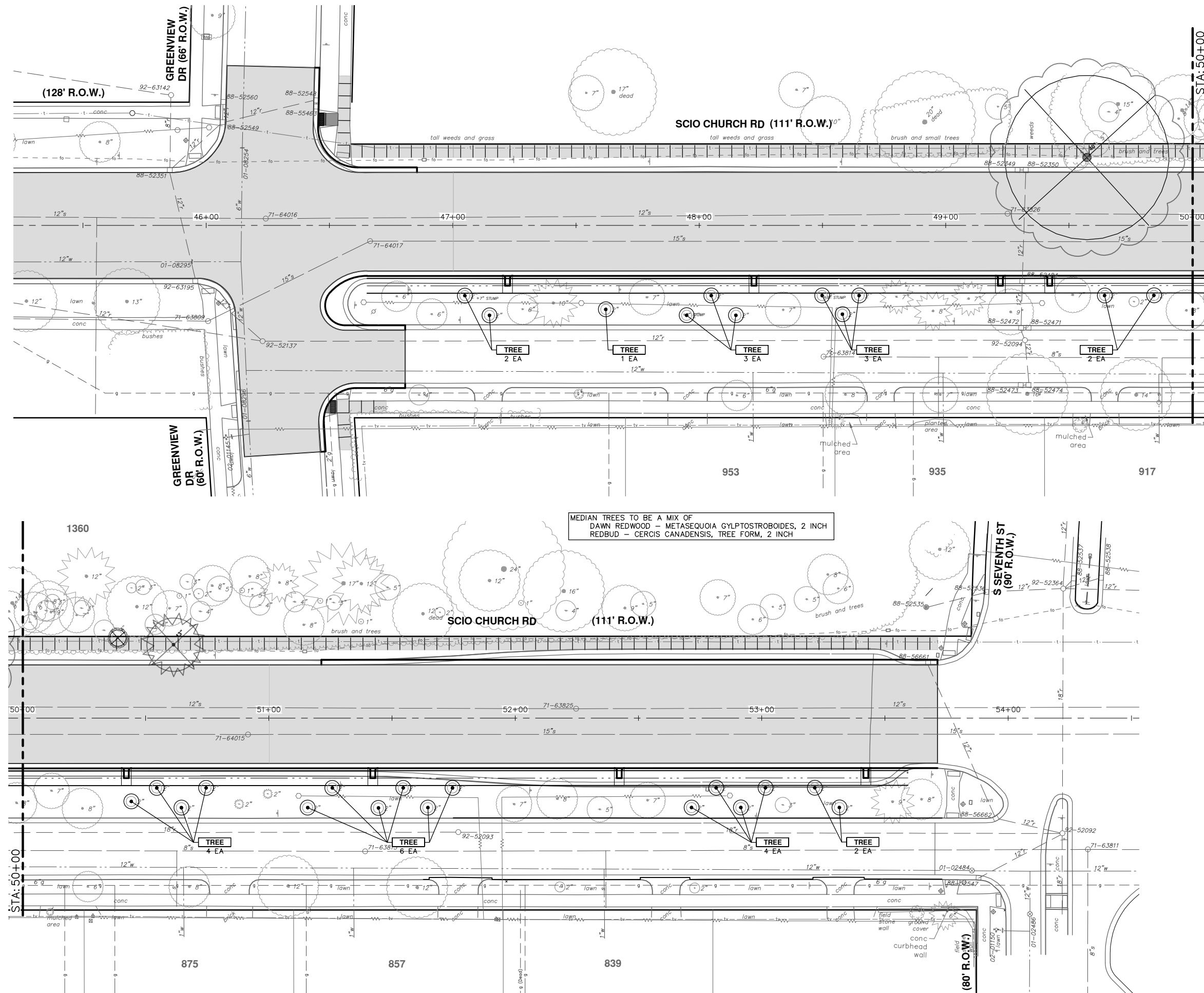


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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R:\2019029 Scio Church Imp\Plan Production\2019029Lnd.dwg Dwg Created: 4-Aug-21 - _a2_standard_bw.stb - Plot Date: 20-May-22



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

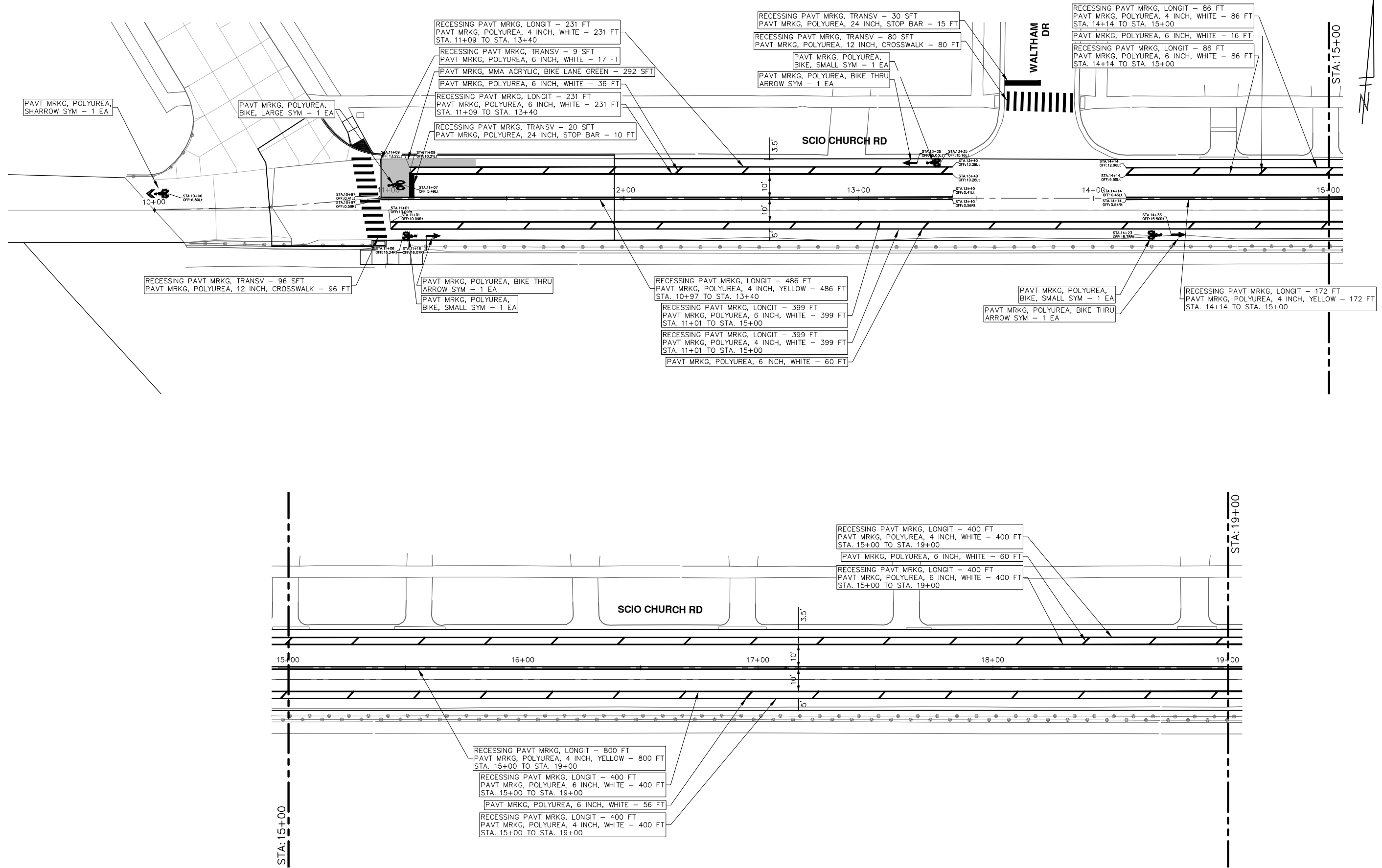
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SCIO CHURCH ROAD IMPROVEMENT PROJECT
LANDSCAPE PLAN
STA. 46+00 - STA. 54+00

SCALE: 1" = 20'
DRAWING NO. 2019029-44

R:\2019029 Scio Church Imp\Plan Production\2019029Pmk.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



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SCIO CHURCH ROAD IMPROVEMENT PROJECT

PAVEMENT MARKINGS

P.O.B. - STA. 19+00

SCALE: 1" = 20'

DRAWING No. 2019029-45

SHEET No. 45 OF 50

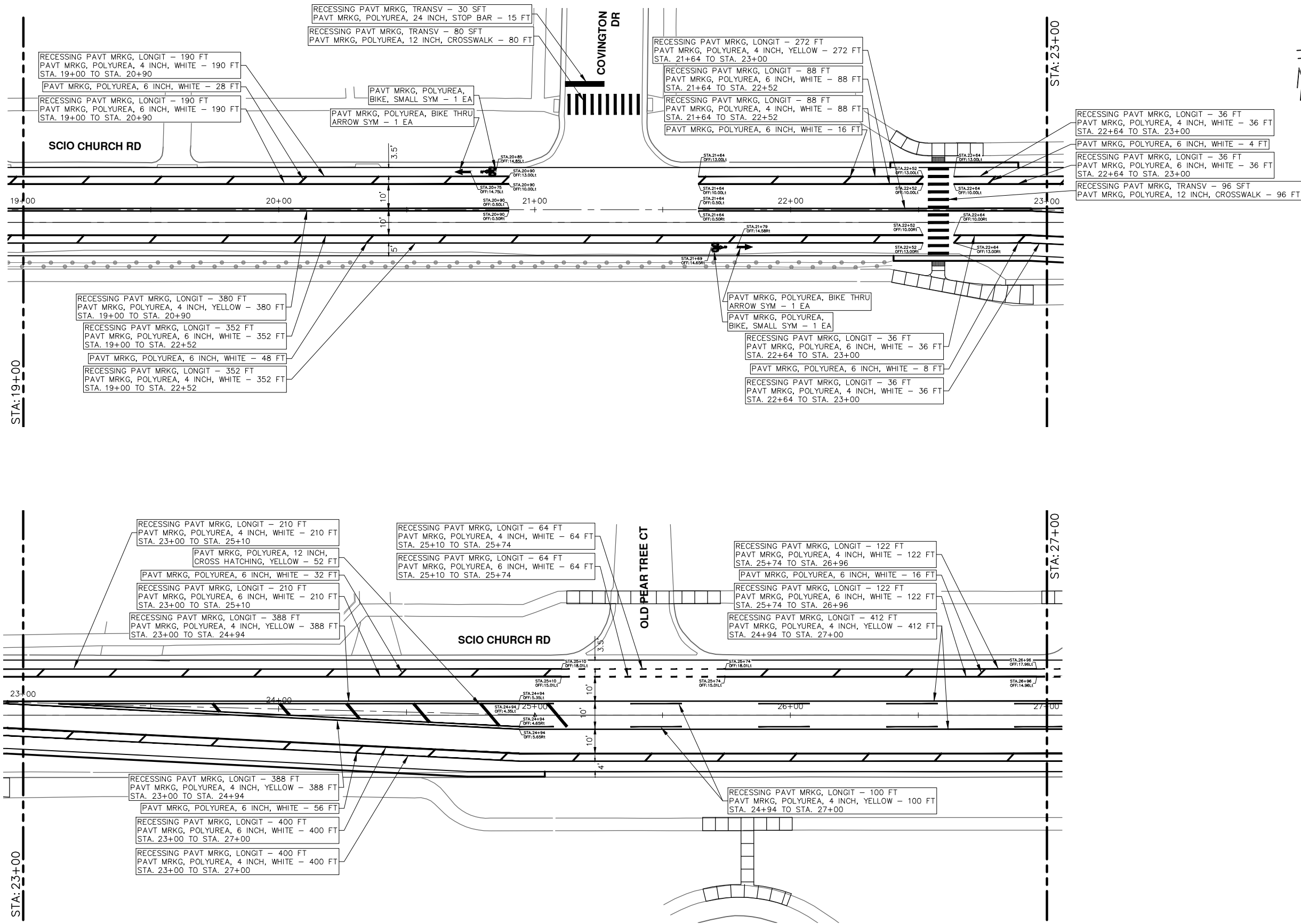
811
Know what's below.
Call Before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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MICHIGAN

R:\2019029 Scio Church Imp\Plan Production\2019029Pmk.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



REV.	DESCRIPTION	DATE	CHECKED	DRAWN
03	FINAL RE-SUBMITTAL	05-20-22	CW	CCDF
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	JKA	CCDF
01	MDOT FINAL SUBMITTAL	07-23-21	JKA	CCDF
00	G.I. SUBMITTAL	10-5-20	JKA	CCDF

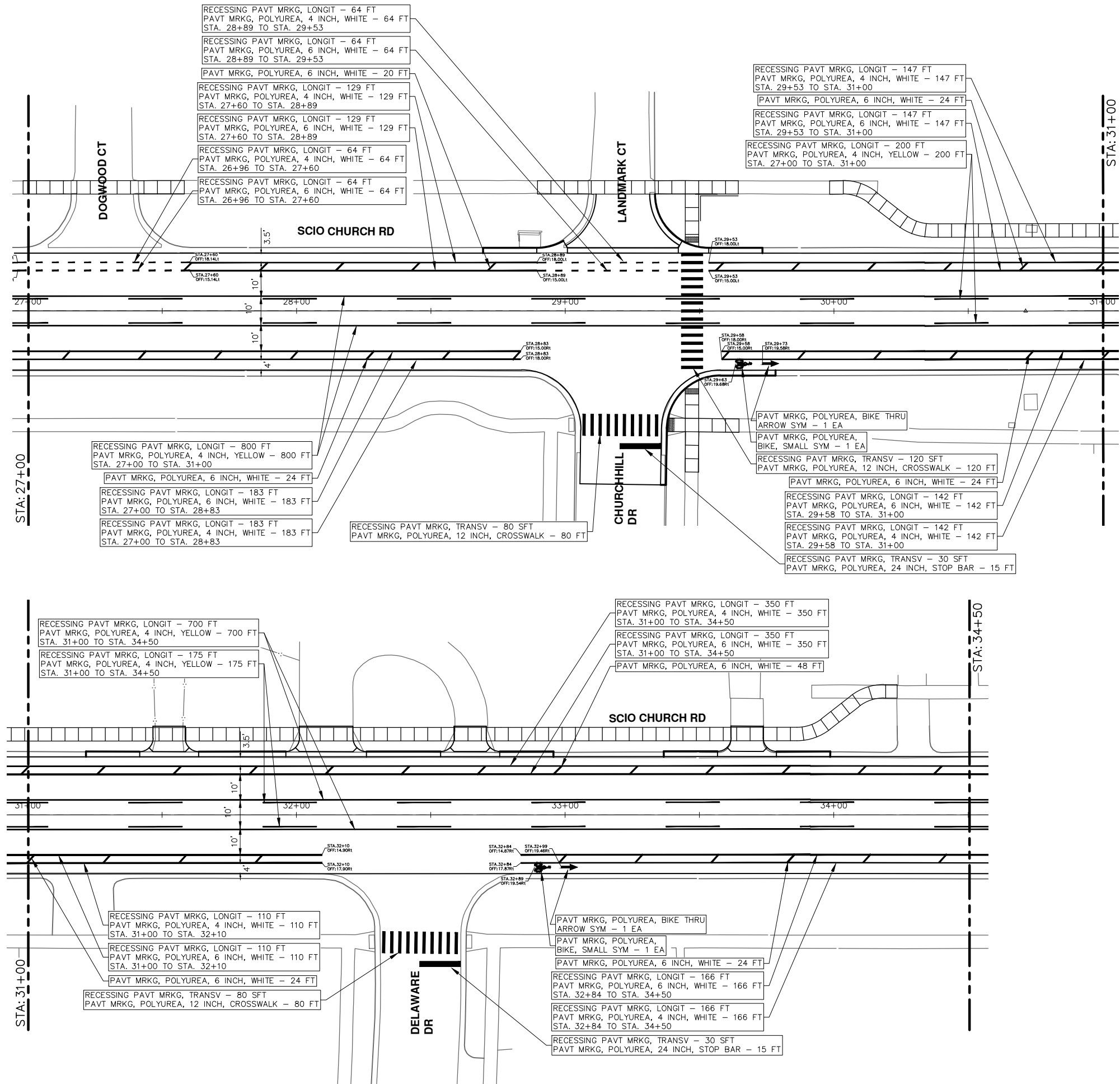
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
PAVEMENT MARKINGS
STA. 19+00 - STA. 27+00

SCALE: 1" = 20'
DRAWING No. 2019029-46

R:\2019029 Scio Church Imp\Plan Production\2019029Pmk.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



Know what's below.
Call Before you dig.

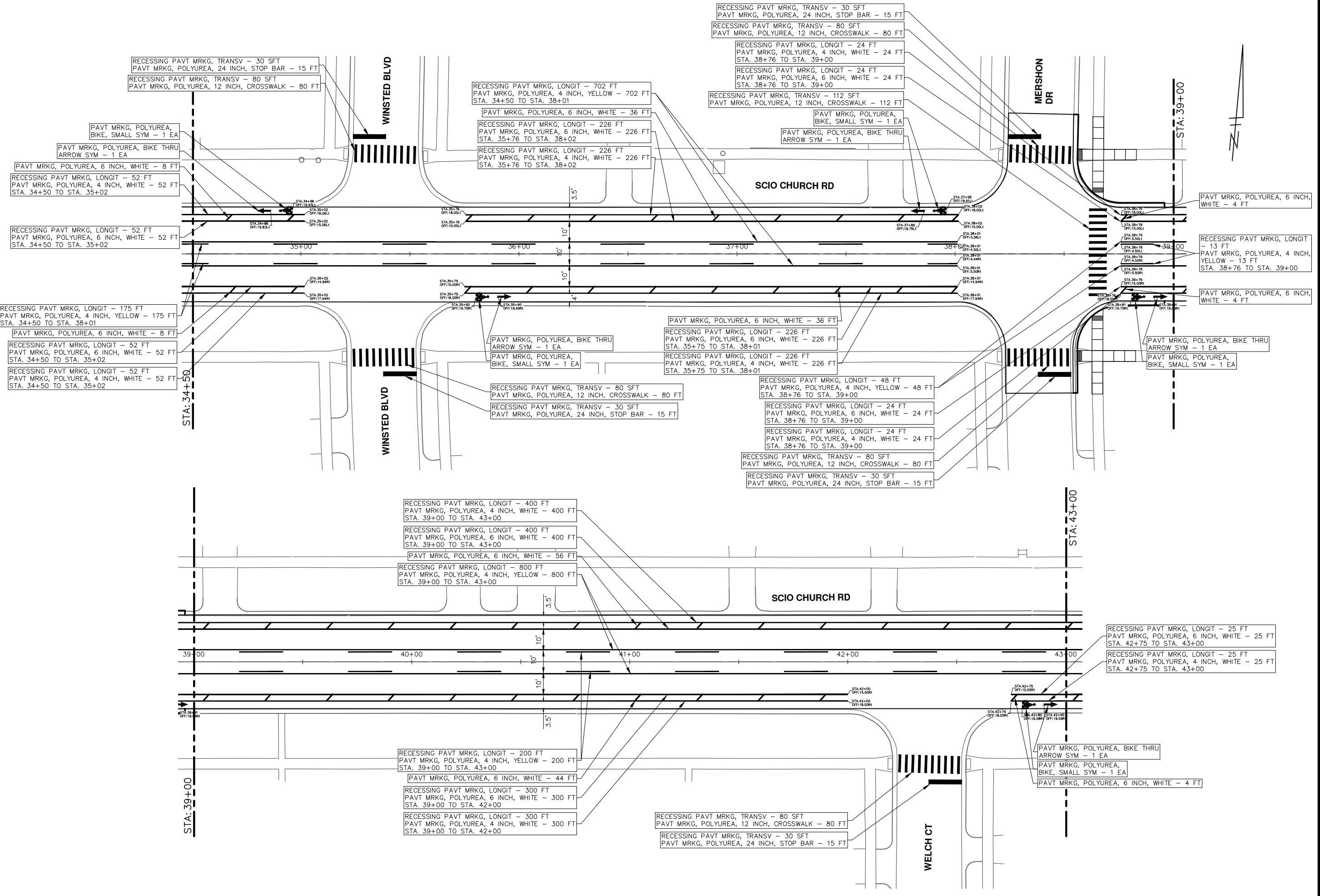
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CW	
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	JKA	
01	MDOT FINAL SUBMITTAL	07-23-21	JKA	
00	G.I. SUBMITTAL	10-5-20	JKA	

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SCIO CHURCH ROAD IMPROVEMENT PROJECT
PAVEMENT MARKINGS
STA. 27+00 - STA. 34+50

SCALE: 1" = 20'
DRAWING No. 2019029-47



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

REV.	DATE	DESCRIPTION	CHECKED	DRAWN
03	05-20-22	FINAL RE-SUBMITTAL	CW	CCDF
02	09-07-21	RESPONSE TO FINAL MDT REVIEW	JKA	CCDF
01	07-23-21	MDOT FINAL SUBMITTAL	JKA	CCDF
00	10-5-20	G.I. SUBMITTAL	JKA	CCDF

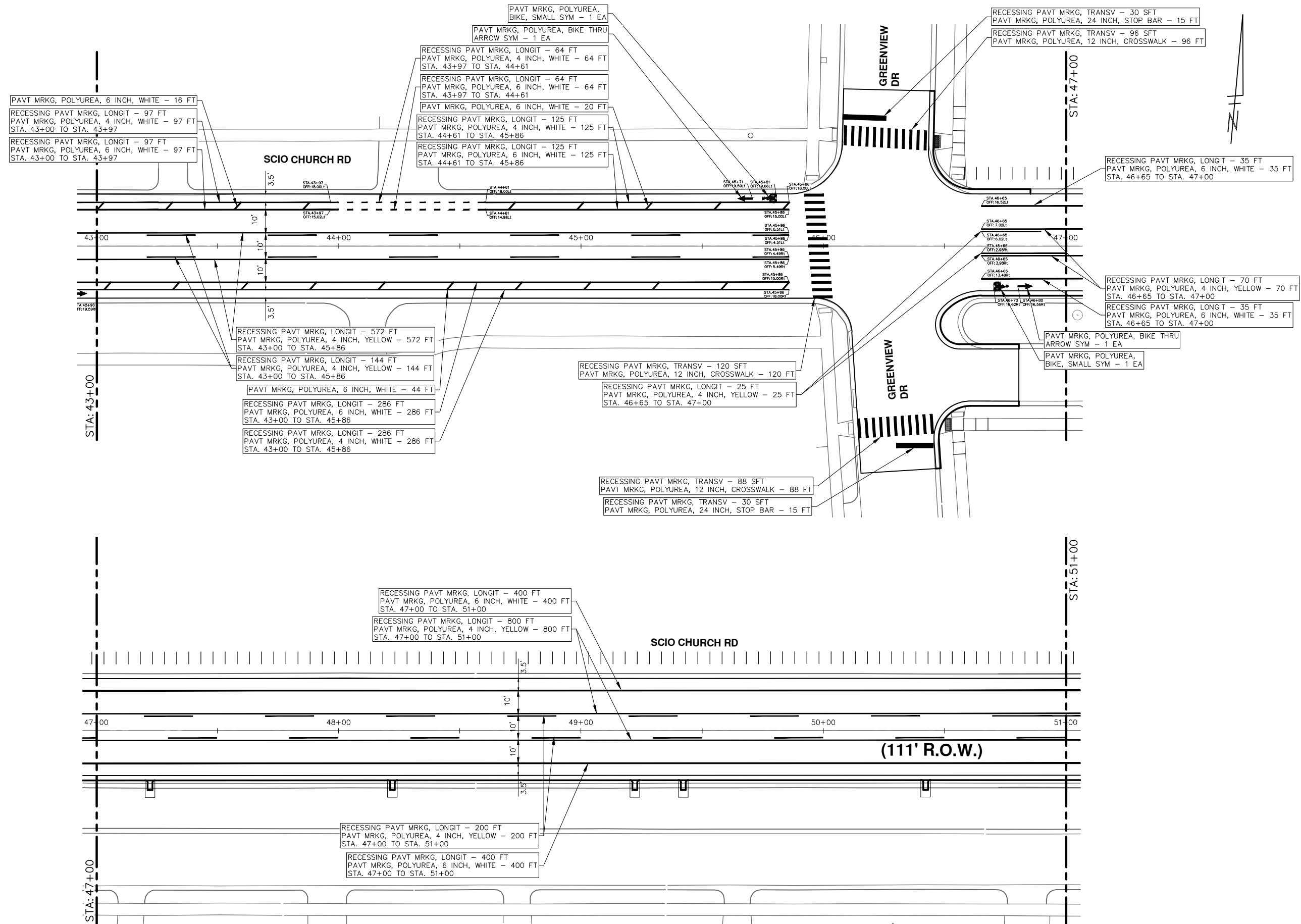
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CITY OF ANN ARBOR

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SCIO CHURCH ROAD IMPROVEMENT PROJECT
PAVEMENT MARKINGS
STA. 34+50 - STA. 43+00

SCALE: 1" = 20'
DRAWING No. 2019029-48
SHEET No. 48 OF 50

R:\2019029 Scio Church Imp\Plan Production\2019029Pmk.dwg Dwg Created: 16-Jul-21 - _a2 standard bw.stb - Plot Date: 20-May-22



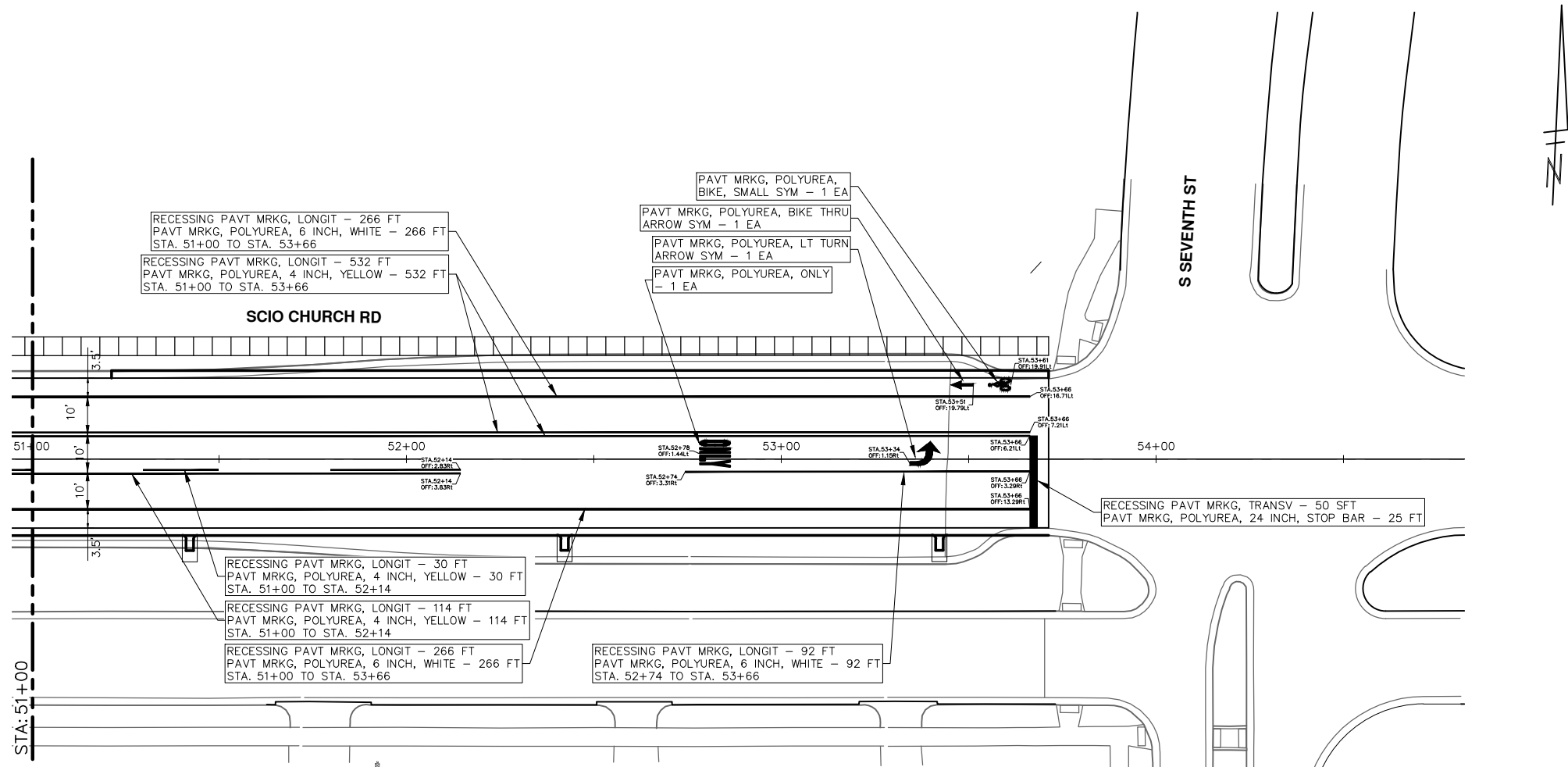
811
 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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CITY OF ANN ARBOR PUBLIC SERVICES - ENGINEERING
SCIO CHURCH ROAD IMPROVEMENT PROJECT
 PAVEMENT MARKINGS
 STA. 43+00 - STA. 51+00

SCALE: 1" = 20'
 DRAWING No. 2019029-49
 SHEET No. 49 OF 50



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
03	FINAL RE-SUBMITTAL	05-20-22	CCDF	CW
02	RESPONSE TO FINAL MDOT REVIEW	09-07-21	CCDF	JKA
01	MDOT FINAL SUBMITTAL	07-23-21	CCDF	JKA
00	G.I. SUBMITTAL	10-5-20	CCDF	JKA

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SCIO CHURCH ROAD IMPROVEMENT PROJECT
PAVEMENT MARKINGS

SCALE: 1" = 20'
DRAWING No. 2019029-50