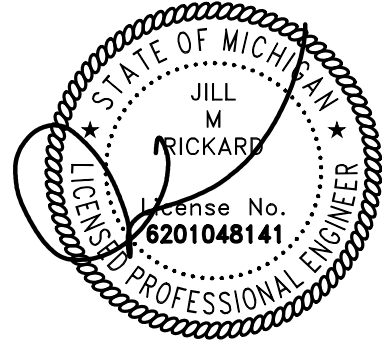


CONSTRUCTION PLANS

IRON BELLE TRAIL SECTION D

VAN BUREN TWP, WAYNE COUNTY, MICHIGAN



PERMIT / APPROVAL SUMMARY		
DATE SUBMITTED	DATE APPROVED	PERMIT / APPROVAL
	2/21/2024	EGLE PERMIT
	5/28/2024	WCDCPS R24-0083

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ABUTMENT DETAILS

MDOT STANDARD PLANS:

LATEST EDITION – (INCLUDED BY REFERENCE). ALL WORK SHALL CONFORM TO THE MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION

TITLE	PLAN NO.
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-J
GUARDRAIL TYPES A, B, BD, T, TD, MGS-8, & MGS-8D	R-60-J
GUARDRAIL APPROACH TERMINAL TYPE 2M "MSKT"	R-62-H
GUARDRAIL DEPARTING TERMINAL TYPES B, T, & MGS	R-66-E

REVISIONS	
DESCRIPTION	DATE
ORIGINAL ISSUE DATE	3/19/2021
WC REVISION	4/16/2024
WC REVISION	5/16/2024

NOT FOR CONSTRUCTION

BENCHMARKS (GPS DERIVED – NAVD 88)	
BM #300	ARROW ON TOP OF HYDRANT. 272' EAST OF Y IN VAN BUREN PARK ROAD AND 16' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD. ELEV. – 700.91
BM #301	SPIKE IN EAST SIDE OF LIGHT POLE. 107' EAST OF CENTER LINE OF VAN BUREN PARK ROAD AND 777' SOUTH OF CENTER LINE OF SOUTH INTERSTATE 94 SERVICE DR. ELEV. – 703.69
BM #302	ARROW ON TOP OF HYDRANT. 21' WEST OF NORTHWEST CORNER OF CAR PORT AND 124' SOUTHEAST OF INTER SECTION OF DENTON ROAD AND OLD DENTON ROAD. ELEV. – 700.22
BM #303	ARROW ON TOP OF HYDRANT. 35' EAST OF CENTER LINE OF DENTON ROAD AND 70' WEST OF NORTHWEST CORNER OF CAR PORT. ELEV. – 696.45
BM #304	ARROW ON TOP OF HYDRANT 37' WEST OF CENTER LINE OF DENTON ROAD AND 272' NORTHWEST OF INTER SECTION OF DENTON ROAD AND BECKLEY ROAD. ELEV. – 678.71
BM #305	SOUTHWEST DIE OF STORM SEWER MANHOLE. 19' NORTHWEST OF INTER SECTION OF CHURCH STREET AND 3RD STREET AND 41' SOUTH WEST OF BUILDING CORNER. ELEV. – 668.75
BM #306	NORTH SIDE OF SANITARY SEWER MANHOLE. 46' NORTHWEST OF INTER SECTION OF ROYS STREET AND CHURCH STREET AND 45' NORTHEAST OF NORTHEAST CORNER OF GAZEBO. ELEV. – 669.71
BM #307	NORTHEAST SIDE OF MANHOLE. 47' SOUTHEAST OF INTER SECTION OF CHURCH STREET AND 2ND STREET AND 53' SOUTHWEST OF SOUTHWEST CORNER OF BUILDING. ELEV. – 673.56
BM #308	NORTH SIDE OF SANITARY SEWER MANHOLE. 67' SOUTHEAST OF INTER SECTION OF HURON RIVER ROAD AND SOUTH LIBERTY STREET AND 29' SOUTHEAST OF SOUTHEAST CORNER OF VICTORY PARK SIGN. ELEV. – 671.44
BM #309	1/2" IRON ROD WITH CAP. 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256' NORTHWEST OF NORTHWEST OF BUILDING CORNER. ELEV. – 698.59
BM #310	RIM ON SANITARY SEWER MANHOLE. 21' SOUTH OF CENTER LINE OF SOUTH INTERSTATE SERVICE ROAD AND 110' WEST OF VAN BUREN PARK INTERESTS. ELEV. – 702.67
BM #311	RIM OF WATER MAIN MANHOLE. 24' SOUTH OF CENTER LINE OF SOUTH INTERSTATE SERVICE ROAD AND 163' NORTHEAST OF NORTH EAST BUILDING CORNER OF DENNY'S. ELEV. – 704.95
BM #312	RIM OF STORM SEWER MANHOLE. 44' EAST OF SOUTH INTERSTATE SERVICE ROAD AND 233' SOUTHWEST OF SOUTHWEST OF BUILDING CORNER OF DENNY'S. ELEV. – 703.85
BM #313	RIM OF ELECTRIC MANHOLE. 88' SOUTHEAST OF INTER SECTION OF RANSONVILLE ROAD AND SOUTH INTERSTATE SERVICE ROAD AND 192' NORTHWEST OF NORTHWEST BUILDING CORNER OF TIM HORTONS. ELEV. – 708.11
BM #314	RIM OF STORM SEWER MANHOLE. 56' NORTHWEST OF ROWSONVILLE ROAD AND SOUTH GROVE STREET AND 76' SOUTHEAST OF SOUTHEAST CORNER OF SPEEDWAY OVERHANG. ELEV. – 700.06

PROJECT DESCRIPTION:

THIS PROJECT IS PART OF THE IRON BELLE TRAIL PROJECT. IT CONSISTS OF CONSTRUCTING APPROXIMATELY .36 AC OF SIDEWALK AND BITUMINOUS PATH ALONG DENTON ROAD AND OLD DENTON ROAD. THIS PROJECT ALSO INCLUDES RESTRIPIING DENTON ROAD FOR A BIKE LANE AND SHARROW. THIS PROJECT WILL CONNECT INTO SECTION C (PREVIOUSLY CONSTRUCTED) AT A FUTURE DATE.

THIS PROJECT IS LOCATED WITHIN THE EXISTING RIGHT OF WAY OR WITHIN THE ULTIMATE COUNTY RIGHT OF WAY. A LAND USE CHART IS NOT APPROPRIATE.

WAYNE COUNTY REVIEW NO.:R-24-0083

DESIGN TEAM

OWNER/APPLICANT/DEVELOPER	CIVIL ENGINEER	
VAN BUREN TOWNSHIP 46425 TYLER ROAD VAN BUREN TWP., MI 48111 CONTACT: ELIZABETH RENAUD PHONE: 734-699-8900 EXT 9258 EMAIL: ERENAUD@VANBUREN-MI.ORG	PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JILL RICKARD, PE PHONE: 844.813.2949 EMAIL: J.RICKARD@PEAGROUP.COM	Van Buren Department of Public Services Bill Miner, Water and Sewer Superintendent 46425 Tyler Road Van Buren Twp., MI 48111 PHONE: 313-580-0047 EMAIL: wminer@vanburen-mi.org Kevin Lawrence 46425 Tyler Road Van Buren Twp. MI 48111 PHONE: 734.699.9825 EMAIL: klawrence@vanburen-mi.org
STRUCTURAL ENGINEER	LANDSCAPE ARCHITECT	
TETRA TECH 7927 NEMCO WAY BRIGHTON, MI 48116 CONTACT: ALAN FLAK, P.E. PHONE: 810-225-8403 EMAIL: ALAN.FLAK@TETRATECH.COM	PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JEFF SMITH, PLA, LEED AP PHONE: 844.813.2949 EMAIL: JSMITH@PEAGROUP.COM	



WAYNE COUNTY NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

- ALL WORK WITHIN THE WAYNE COUNTY ROAD RIGHT-OF-WAY (ROW) AND DRAIN EASEMENT SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS, INCLUDING SOIL EROSION AND SEDIMENTATION CONTROL OF THE WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, AND MODTO 2012 SPECIFICATIONS FOR CONSTRUCTION.
- THESE PLANS ARE NOT VALID WITHOUT ATTACHMENT OF THE WAYNE COUNTY PERMIT SPECIFICATIONS FOR CONSTRUCTION WITHIN THE ROAD ROW, PARKS, DRAIN EASEMENT OR SANITARY SEWER UNDER THE JURISDICTION OF THE WAYNE COUNTY (07/01/93) REVISED 12/15/2004.
- CONTRACTOR SHALL CONTACT MISS DIG AT 811 TO IDENTIFY AND FLAG/MARK THE LOCATIONS OF ALL UNDERGROUND UTILITIES AT THE PROPOSED CONSTRUCTION AREAS PRIOR TO START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND RESOLVE ANY CONFLICT BETWEEN THE PROPOSED WORK AND THE EXISTING UNDERGROUND OR ABOVE GROUND UTILITIES.
- CONTRACTOR SHALL MAINTAIN 18" MINIMUM VERTICAL CLEARANCE AND 3 FEET MINIMUM HORIZONTAL CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES. ANY PROPOSED UTILITY PERMITTED TO CROSS UNDER THE ROAD OR DRAIN, MUST BE PLACED A MINIMUM OF 7 FEET BELOW THE LOWEST POINT OF THE ROAD, OR 6 FEET BELOW THE DRAIN BOTTOM. OVERHEAD WIRES/CABLES MUST BE INSTALLED 18 FEET MINIMUM ABOVE THE ROAD CENTERLINE. TO RELOCATE ANY UTILITY WITHIN THE ROAD ROW, THE CONTRACTOR SHALL COORDINATE THE RELOCATION WITH THE UTILITY COMPANY AND AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- ALL SURVEY MONUMENTS/CORNERS AND BENCH MARKS LOCATED WITHIN THE CONSTRUCTION AREA MUST BE PRESERVED IN ACCORDANCE WITH PUBLIC ACT 74 AS AMENDED (INCLUDING ACT 34, P.A. 2000) AND AS PER WAYNE COUNTY PERMIT RULE 1.5. THE PERMIT HOLDER AND CONTRACTOR SHALL COORDINATE THE WORK WITH A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF MICHIGAN DURING CONSTRUCTION ACTIVITIES FOR THE PURPOSE OF WITNESSING, PRESERVING REPLACING SURVEY MONUMENTS AND MONUMENT BENCHES.
- EXPOSURE OF ANY UTILITIES UNDER THE PAVEMENT WILL NOT BE PERMITTED, UNLESS APPROVED BY THE WAYNE COUNTY ENGINEER. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PERFORMED PER APPLICABLE WAYNE COUNTY STANDARD DETAILS AND AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE WAYNE COUNTY ROAD ROW AND DRAIN EASEMENT WITH 3" TOPSOIL, THM SEED MIX AND MULCH. SLOPES STEEPER THAN 1 ON 3 SHALL BE RESTORED BY PLACING SOD ON 2" TOPSOIL.
- ALL BACKFILLS UNDER OR WITHIN 3 FEET OF THE PROPOSED OR EXISTING PAVEMENT, CURB OR SIDEWALK SHALL CONFORM TO THE WAYNE COUNTY TRENCH "B" BACKFILL REQUIREMENTS. TRENCH "A" BACKFILL MAY BE USED WITHIN THE ROAD ROW AREAS UNDER CONDITIONS OTHER THAN THOSE SPECIFIED FOR TRENCH "B".
- CONTRACTOR IS RESPONSIBLE FOR RESTORING OR REPLACING ALL DISTURBED LANDSCAPED AREAS, SPRINKLER SYSTEMS, FENCES, SIGNS, MAIL BOXES, ETC. WITHIN THE WAYNE COUNTY ROAD ROW AND / OR AS DIRECTED BY THE COUNTY ENGINEER.
- CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES OTHERWISE, DETOURING TRAFFIC MUST BE PER APPROVED PLANS, ALL SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF M.M.U.T.C.D.
- MAINTAIN A SAFE AND ADEQUATE TRAVEL ROUTE FOR PEDESTRIANS AT ALL TIMES THROUGHOUT THE PROJECT DURATION.
- TUNNELING, BORING AND JACKING OPERATIONS SHALL BE IN ACCORDANCE WITH THE WAYNE COUNTY SPECIFICATIONS AND DETAILS. BORE PITS SHALL BE PLACED AT MINIMUM 10 FEET FROM THE BACK OF CURB OR EDGE OF PAVEMENT.
- REMOVE ALL ABANDONED CONDUITS FROM THE COUNTY ROADS ROW OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- CONTRACTOR SHALL PROVIDE COLD WEATHER PROTECTION FOR ALL PROPOSED CONCRETE WORK (PAVEMENTS, SIDEWALKS, DRIVE APPROACHES, ETC.) AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- OVERNIGHT VEHICLE PARKING AND STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT ARE NOT PERMITTED WITHIN THE WAYNE COUNTY ROADS RIGHTS-OF-WAY.
- CONTRACTOR SHOULD OBTAIN A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE WAYNE COUNTY DPS. CONTACT THE WAYNE COUNTY SOIL EROSION OFFICE AT (734) 326-5565, OR THE COMMUNITY HAVING JURISDICTION OVER THE SOIL EROSION PERMIT.
- CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC SIGNAL SHOP AT (734) 955-2154.
- CONTRACTOR SHALL NOTIFY WAYNE COUNTY 72 HOURS PRIOR TO START OF CONSTRUCTION. CONTACT THE PERMIT OFFICE AT (734) 858-2764.

PAVING NOTES:

- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
- CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
- ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED.
- CONCRETE PAVEMENT JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION:
 - WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO ALLOW FOR SEALING.
 - WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT), PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
 - WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS:
 - 6-INCH THICK CONCRETE PAVEMENT: 12' X 12'
 - 8-INCH THICK CONCRETE PAVEMENT: 15' X 15'
 - IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
 - IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- CONCRETE CURBING JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION:
 - JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT
 - PLACE CONTRACTION JOINTS AT 10' INTERVALS
 - PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
 - PLACE 1" EXPANSION JOINT:
 - AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE
 - AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS
 - AT THE END OF RADIUS AT OPPOSITE ENDS IN A CURBED LANDSCAPE ISLAND
 - JOINTS WHEN TIED TO CONCRETE PAVEMENT
 - PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE CONTRACTION JOINTS IN PAVEMENT
 - PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
 - PLACE 1" EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION JOINTS IN PAVEMENT
 - CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT)
 - IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT):
 - CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
 - IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY, THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT SPECIFICATIONS
- CONCRETE SIDEWALK JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION:
 - PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE WALK WHEN WIDTH IS LESS THAN 8'
 - PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER THAN 8'
 - PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR RADIUS IN INTERSECTION
 - PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100' SPACING
 - PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE, OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES), UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.
- ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM THE COUNTY PRIOR TO CONSTRUCTION.
- ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.
- REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
- THE DETENTION BASIN SIDE SLOPES AND ALL SLOPE EXCEEDING 1:4 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS. PROVIDE A MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
- ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
- THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOTEXTILES OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
- SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
- SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
- ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

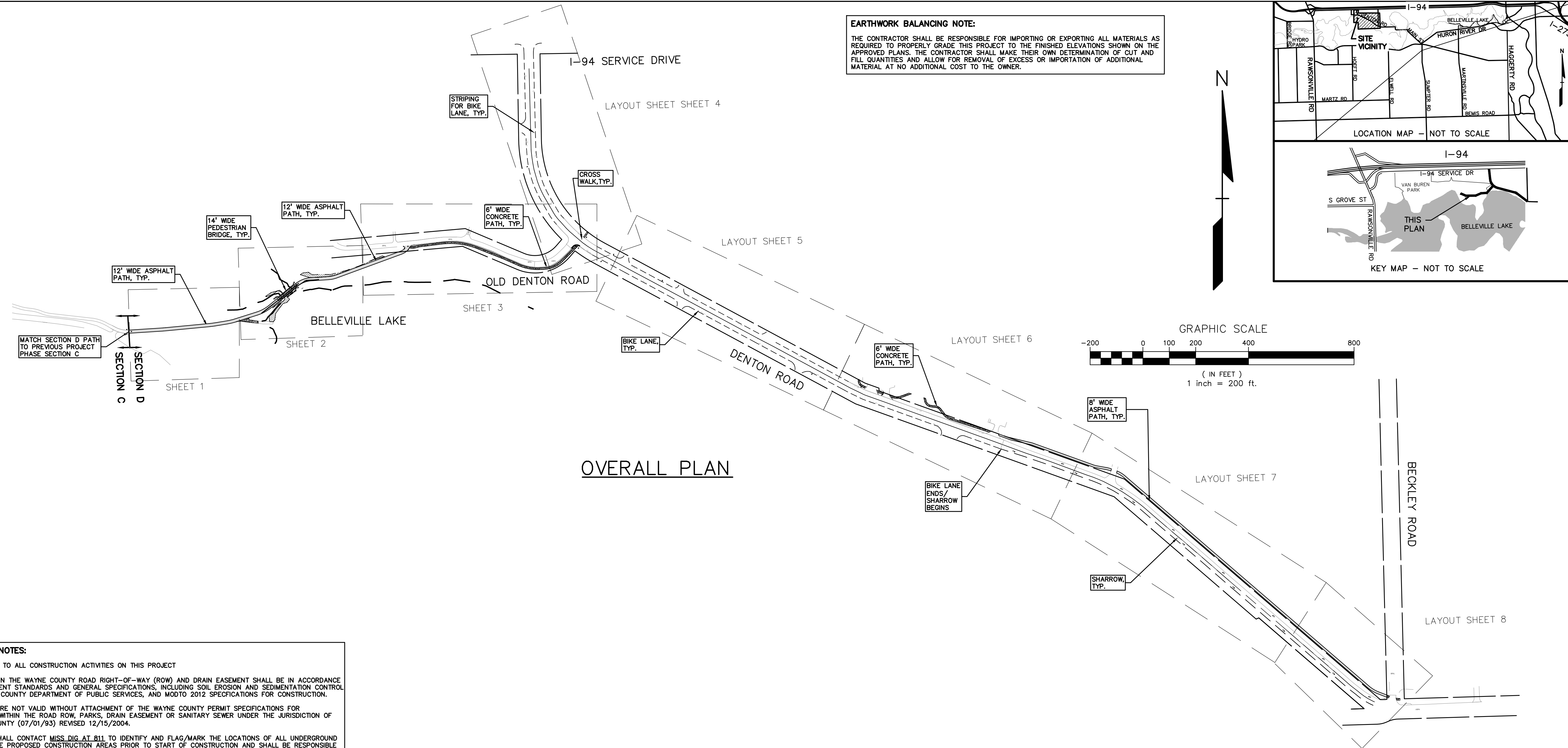
GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
- ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL TOWNSHIP INSPECTION FEES.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR SHALL VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, TOWNSHIP AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER, CONCRETE DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE PROJECT LIMITS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN BTD\DWG\19369-TOPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLK-19369.DWG



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS GIVEN BY THE ENGINEER OR THE CONTRACTOR FOR THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

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OVERALL PLAN
IRON BELLE TRAIL-SECTION D
DES. JMR DN. SUR. JW P.M. US
WAYNE COUNTY, MI
S:\PROJECTS\2019\2019-369 VAN BUREN BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-DIG-C-1-D OVERALL-19369.DWG

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

SCALE: 1" = 200'

DRAWING NUMBER:

C-1.1

REVISIONS

2. BY JMR WC REVISIONS 5-16-23
1. BY JMR WC REVISIONS 4-10-23

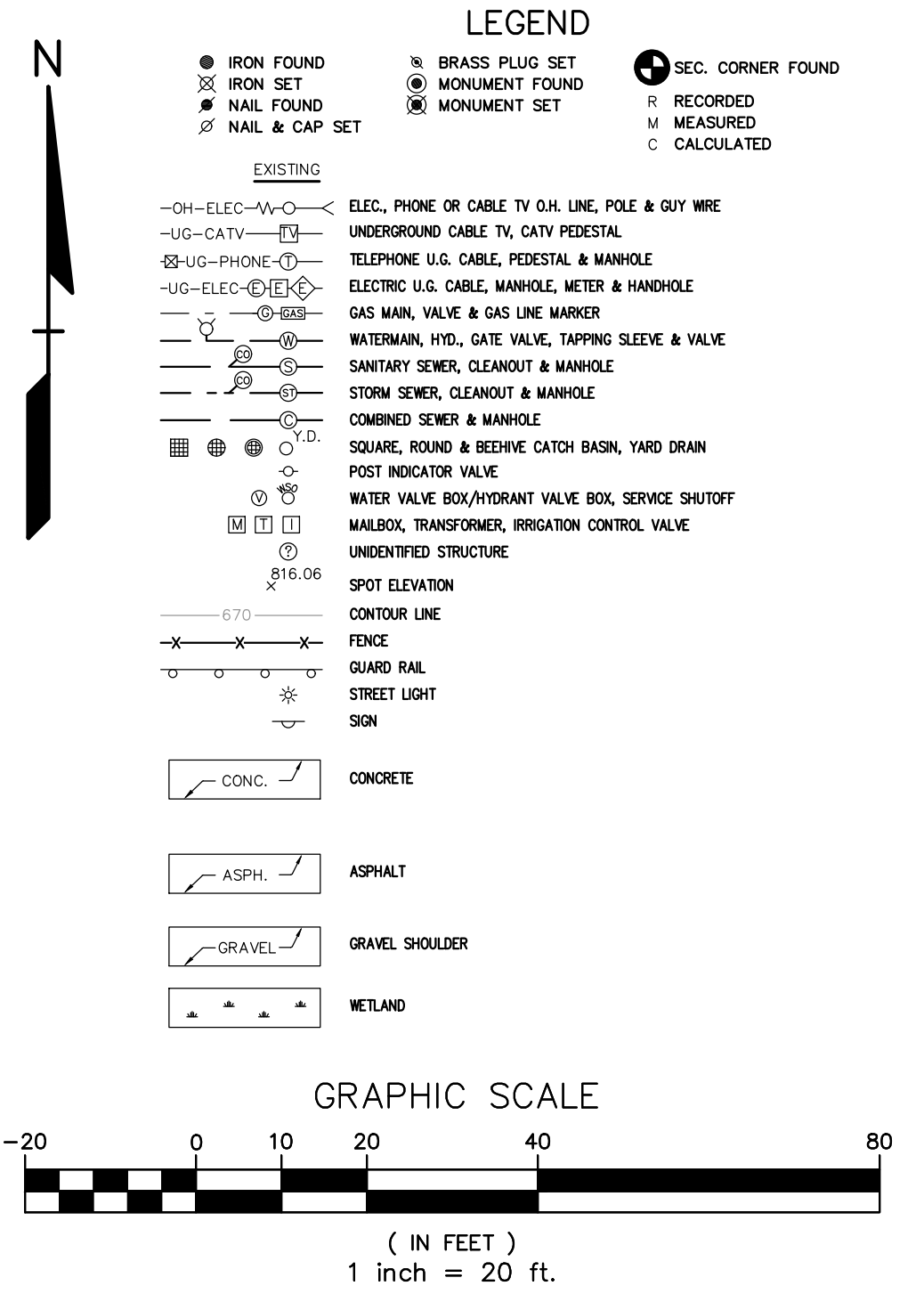
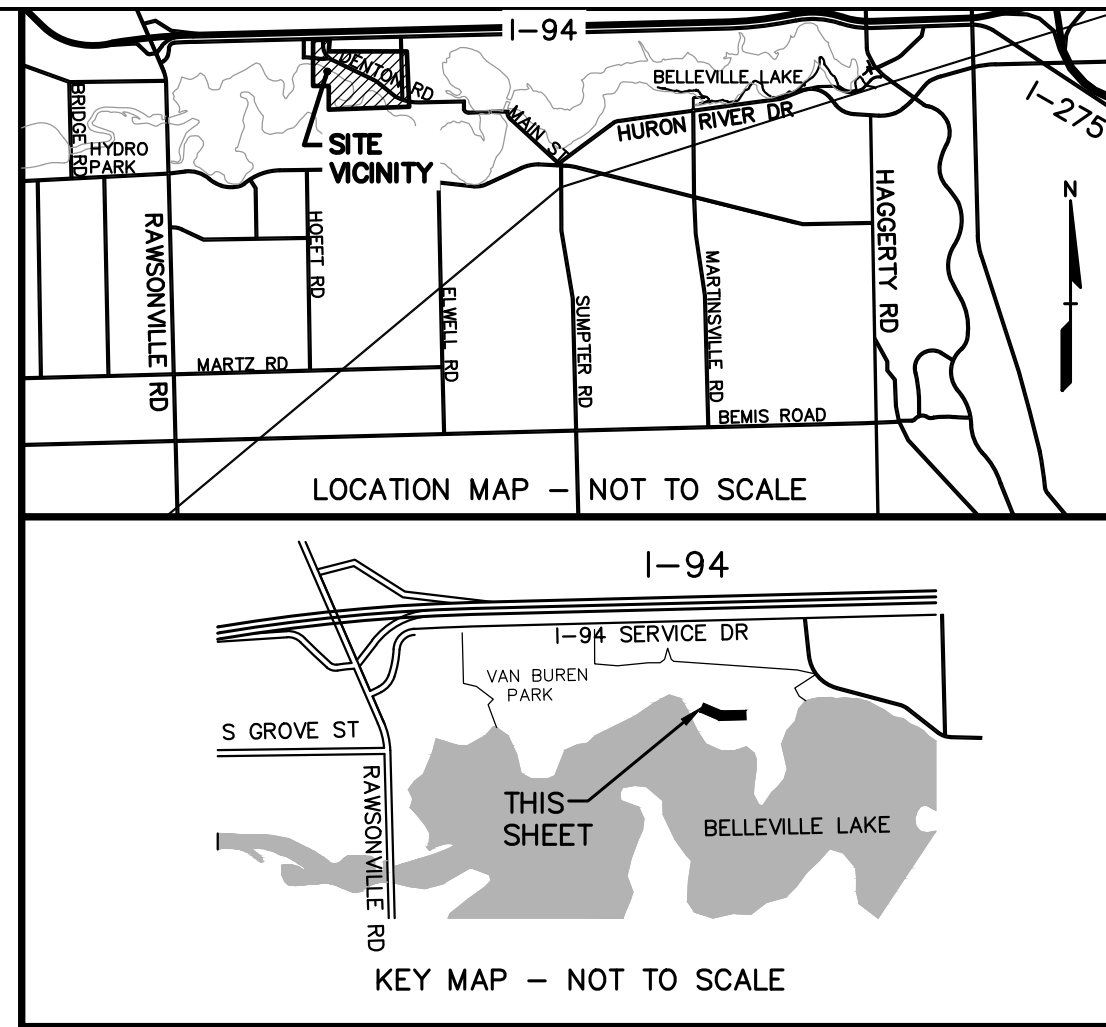
GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.
- ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
- STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION.
- SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.
- REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC. NOTE TREE STUMPS ARE TO BE GROUND WHEN LOCATED UNDERNEATH THE SIDEWALK/BITUMINOUS PATH.
- THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION.
- REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.)
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

NOTE:

EXPLORATORY EXCAVATION OF THE SANITARY SEWER FORCE MAIN IS TO OCCUR PRIOR TO ANY OTHER WORK. CONTRACTOR IS TO REVIEW PROPOSED DEPTH, AND LOCATION OF THE FORCE MAIN IN REGARDS TO THE PROPOSED BRIDGE FOUNDATION/WALLS. ALL CONFLICTS MUST BE RESOLVED WITH ENGINEER AND TOWNSHIP DPS PRIOR TO ORDERING MATERIALS OR ANY REMOVALS.



BENCHMARKS
(GPS DERIVED - NAVD 88)
BM #309
1/2" IRON ROD WITH CAP, 10' SOUTH OF
CENTER LINE OF VAN BUREN PARK ROAD
AND 256' NORTHWEST OF NORTHWEST OF
BUILDING CORNER.
ELEV. - 698.59

DEMOLITION LEGEND:	
ITEM TO BE PROTECTED	
ITEM TO BE REMOVED	
CURB/FENCE/GUARDRAIL REMOVAL	
CONCRETE PAVEMENT, SIDEWALK, AND GRAVEL REMOVAL	
AREA OR ITEMS TO BE REMOVED	
ASPHALT REMOVAL	
TREE REMOVAL	
SAWCUT LINE	
BRUSH/TREE REMOVAL	

FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 261630333E & 261630334E DATED FEBRUARY, 02, 2012.

TRAIL PLAN VIEW

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\19369-TOPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
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REVISIONS

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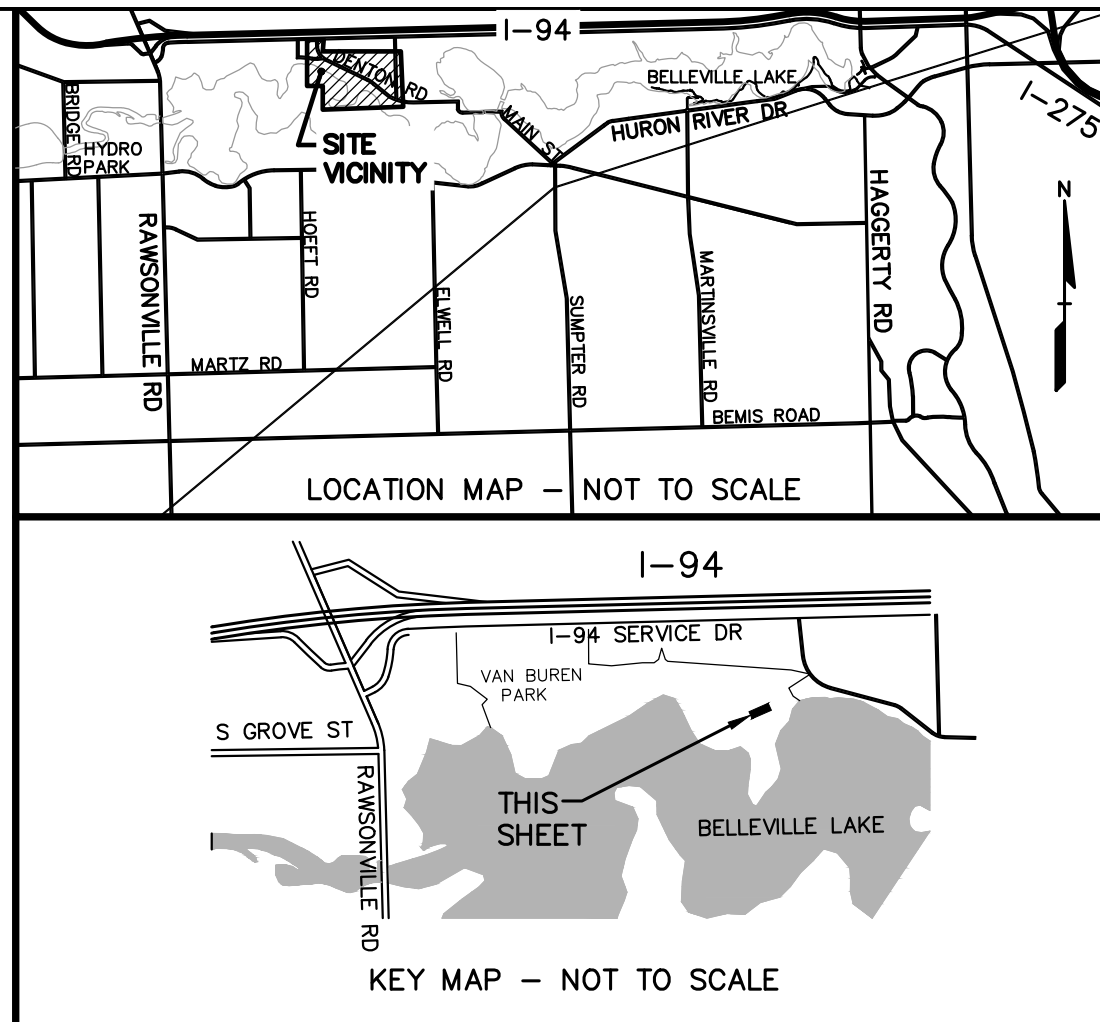
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		P.M.	
		US	
DES.	JMR	DN.	

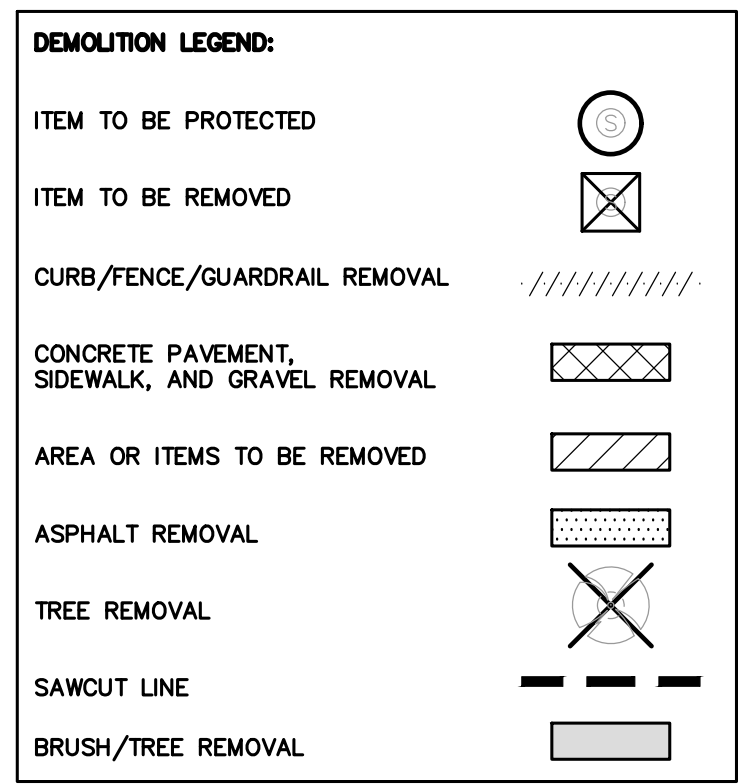
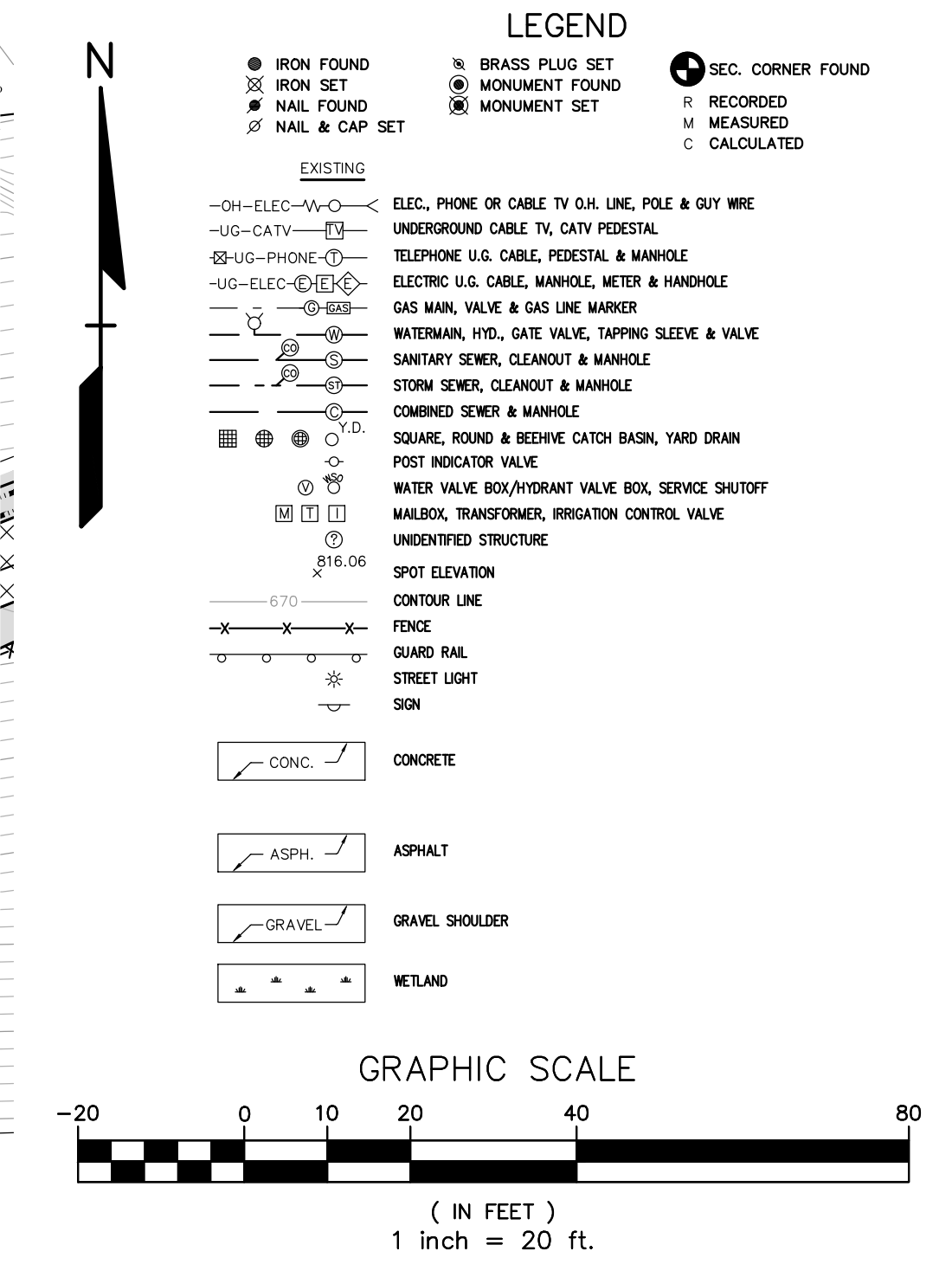
ORIGINAL ISSUE DATE:
MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1" = 20'
DRAWING NUMBER:
C-2.1

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NOTE:
FORCE MAIN WILL BE PLACED OUT OF SERVICE IN THE FALL/WINTER. CONTRACTOR TO PERFORM EXPLORATORY EXCAVATION DURING THIS TIME. IF DELAY OCCURS, BY PASS PUMPING WILL BE CONSIDERED INCIDENTAL TO THE EXPLORATORY EXCAVATION PAY ITEM.



REVISIONS	
NO.	DESCRIPTION
1	BY: JMR DATE: 10/20/21
2	BY: JMR DATE: 10/20/21



FLOODPLAIN NOTE:
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\19369-TOPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLX-19369.DWG

TRAIL PLAN VIEW

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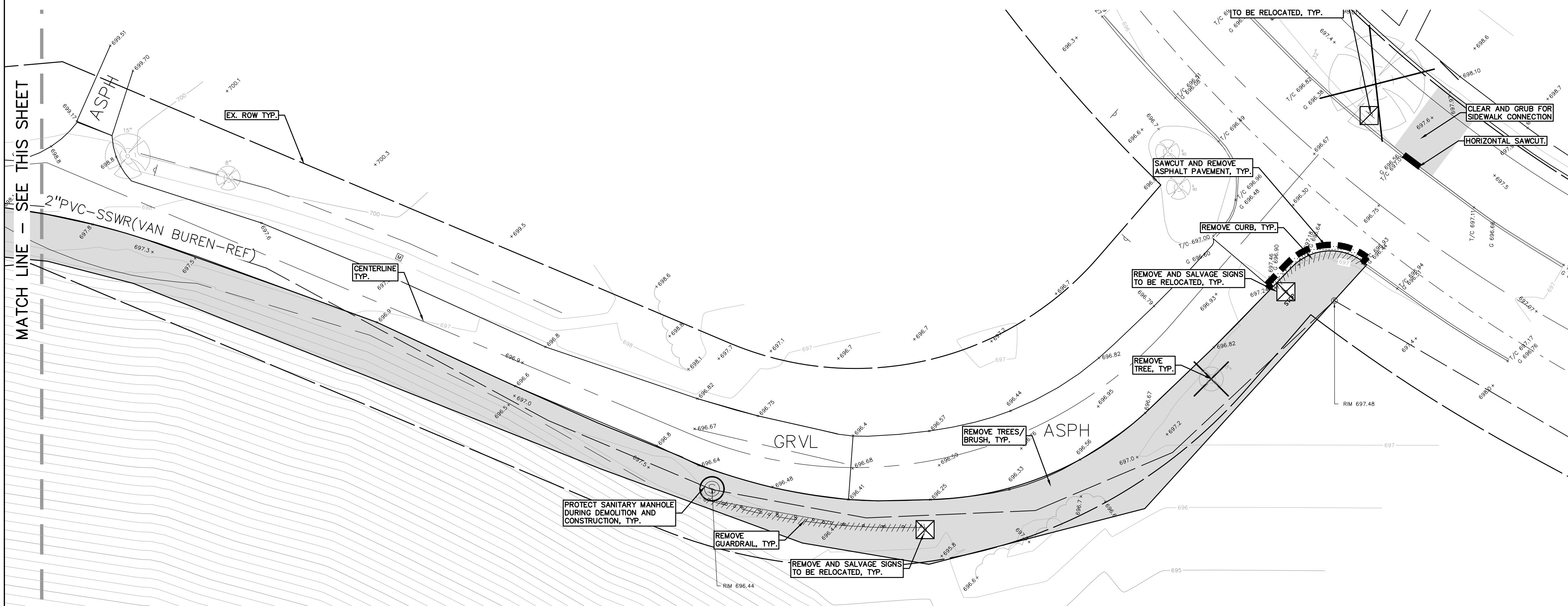
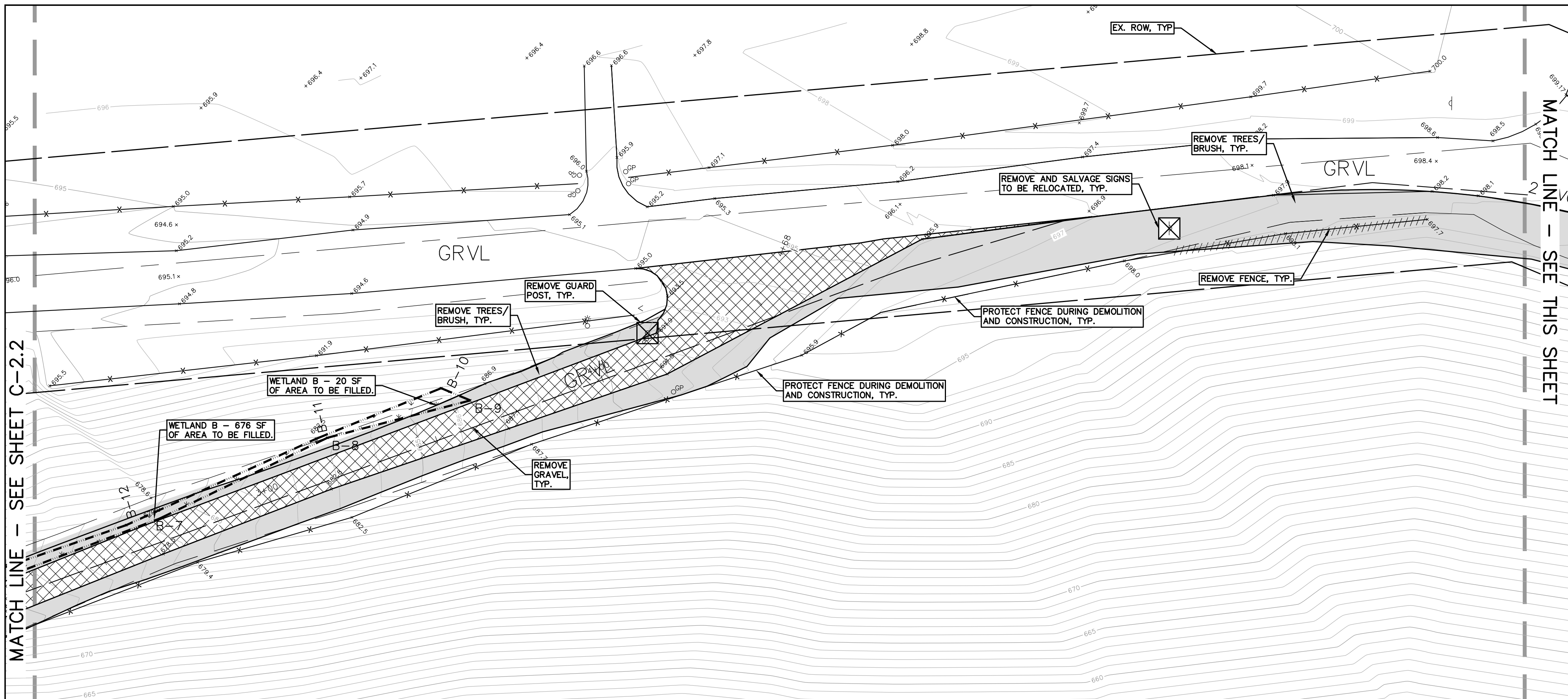
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ORIGINAL ISSUE DATE:
MARCH 19, 2021

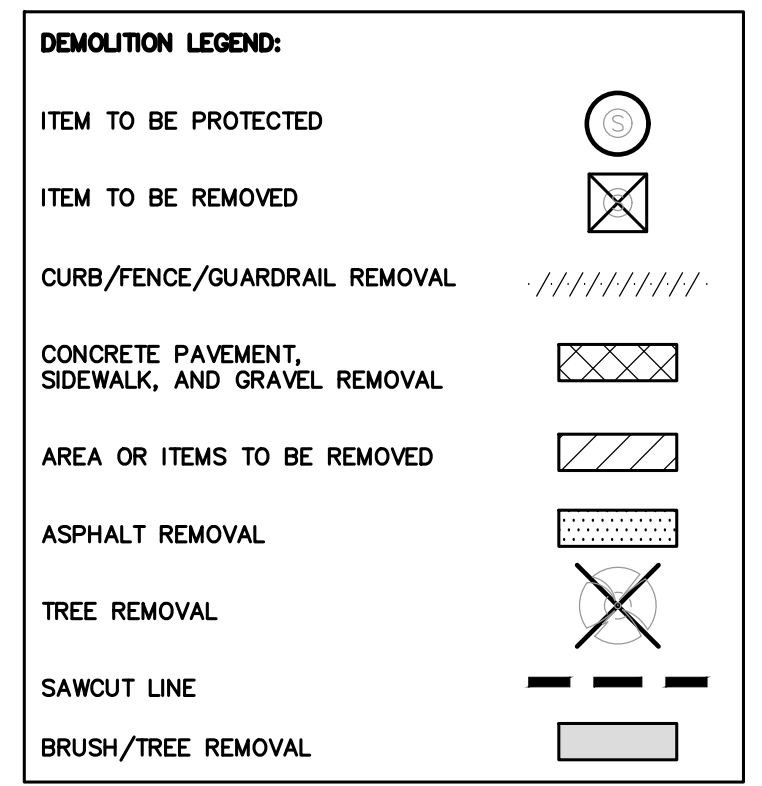
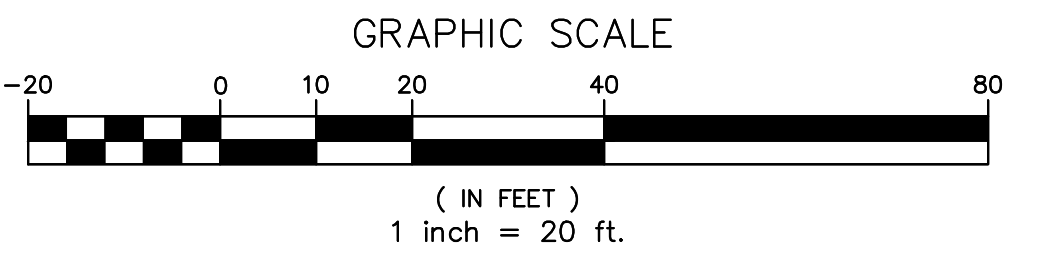
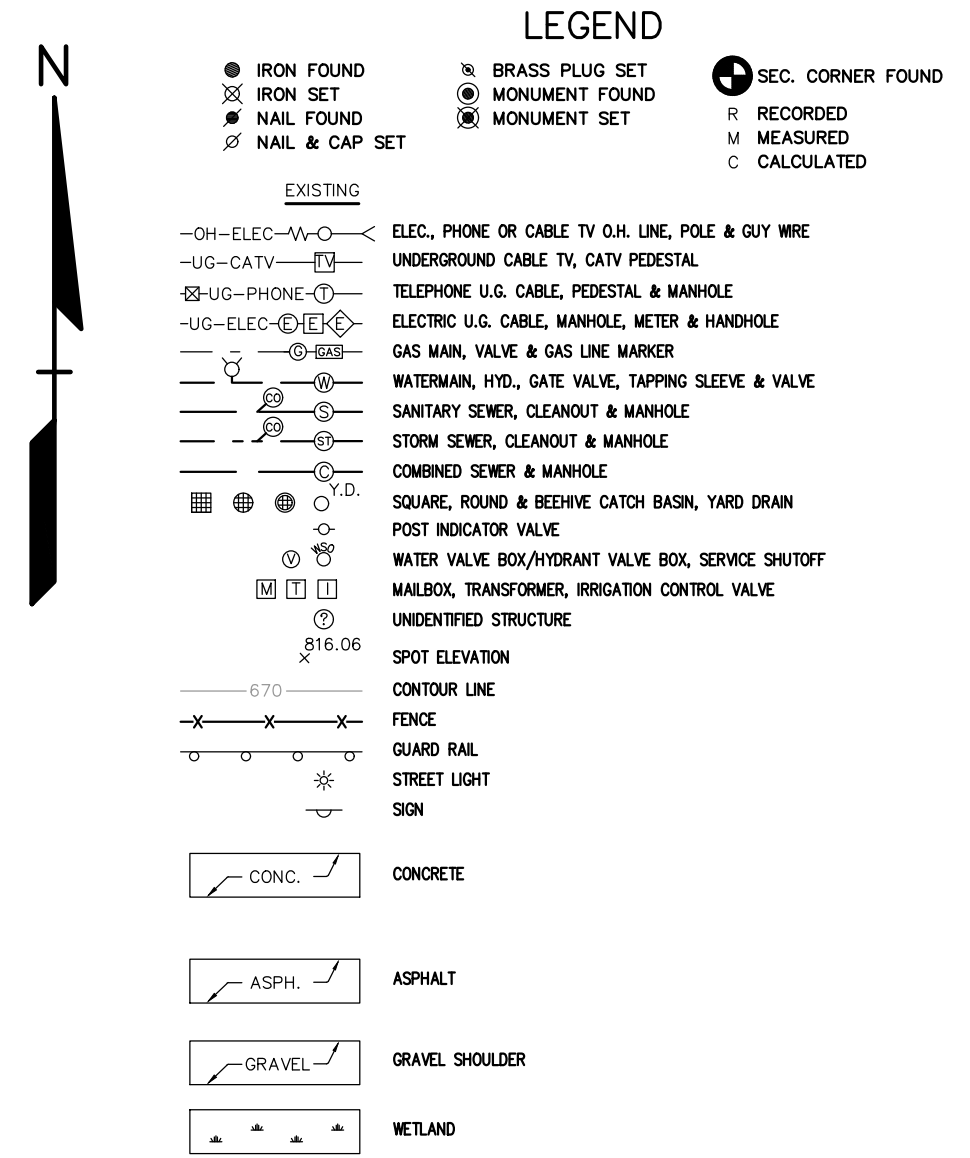
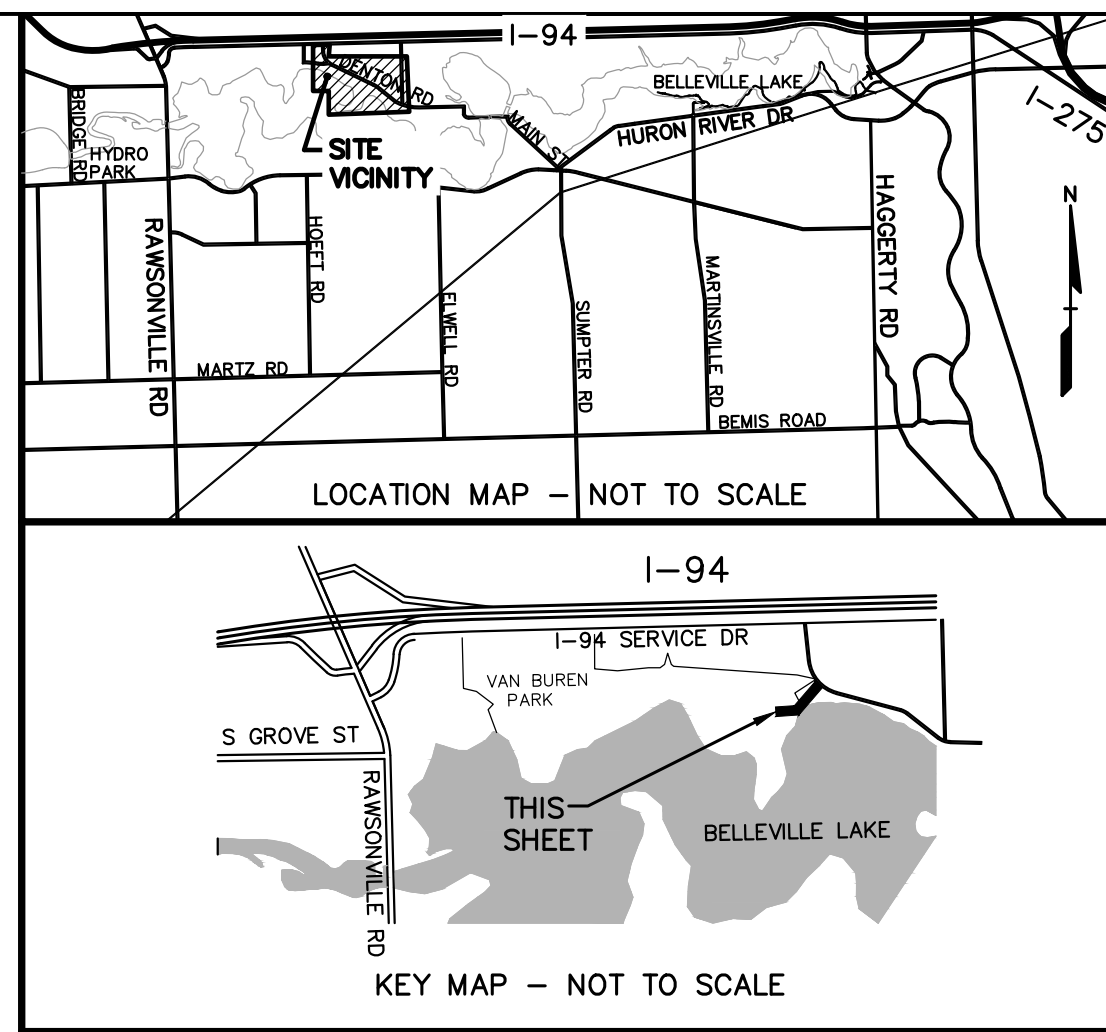
PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:
C-2.2



TRAIL PLAN VIEW



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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLK-19369.DWG

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	BT	02/10/20	INITIAL REVISIONS
2	JMR	03/19/20	W.C. REVISIONS

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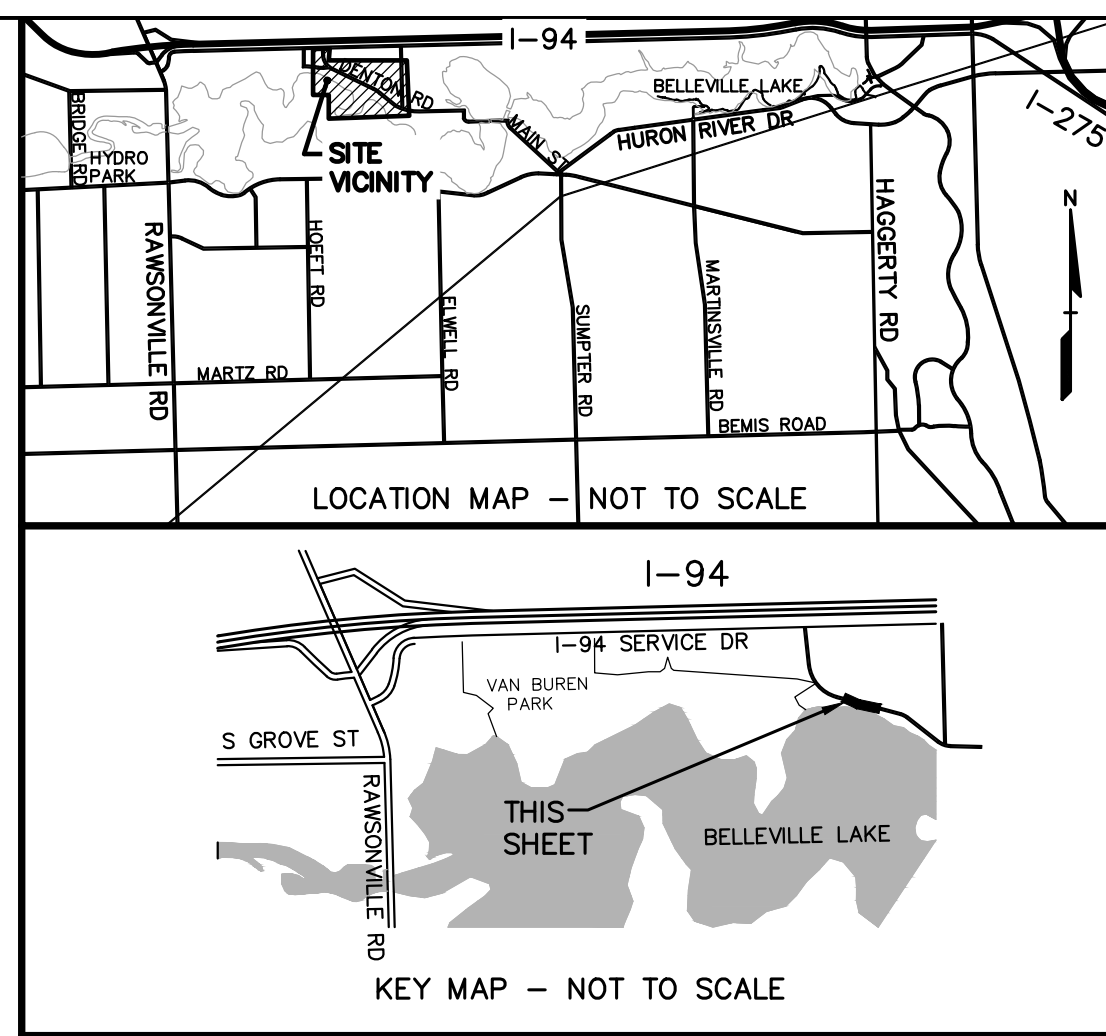
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ORIGINAL ISSUE DATE:
MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1"=20'
DRAWING NUMBER:
C-2.3

[illegible]

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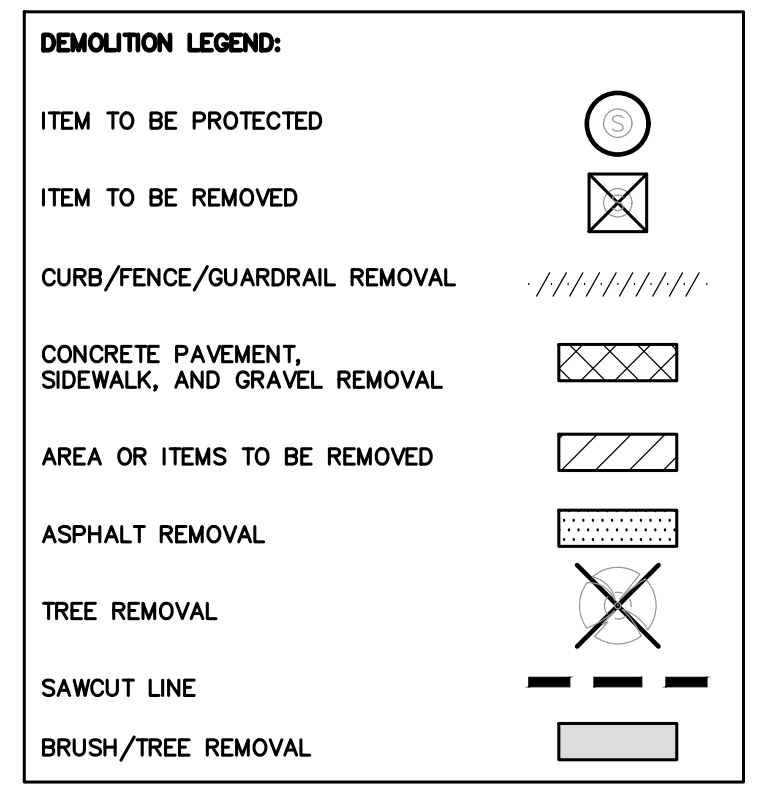
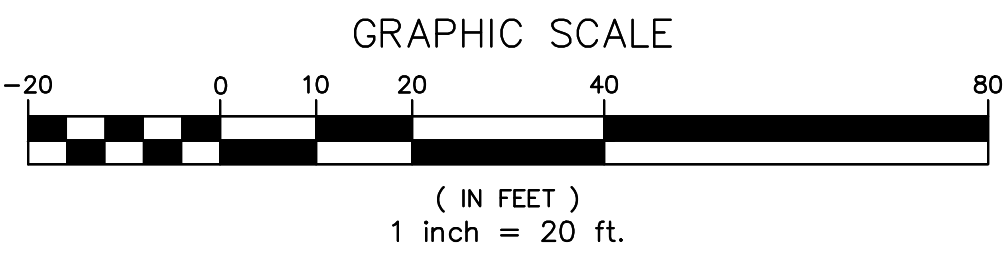
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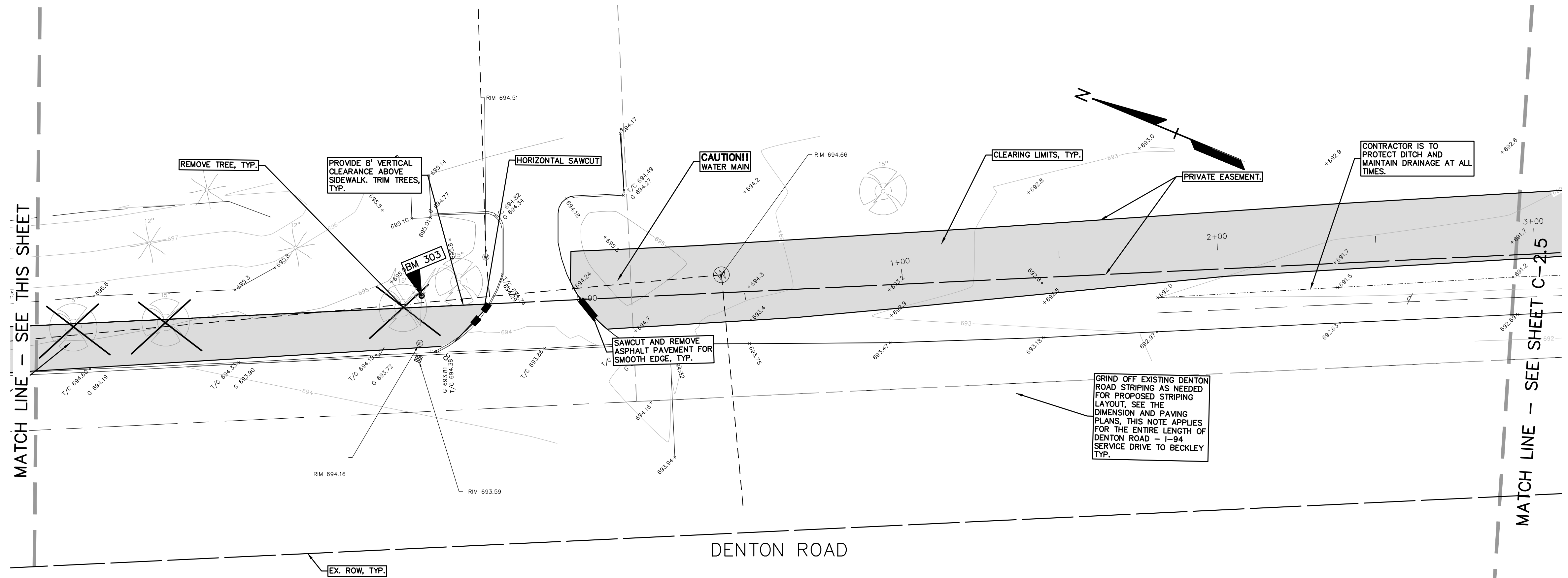
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NOT FOR CONSTRUCTION



DENTON ROAD BIKE LANE/SHARROW AND
SIDEWALK PLAN VIEW

VAN BUREN TOWNSHIP

46425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111

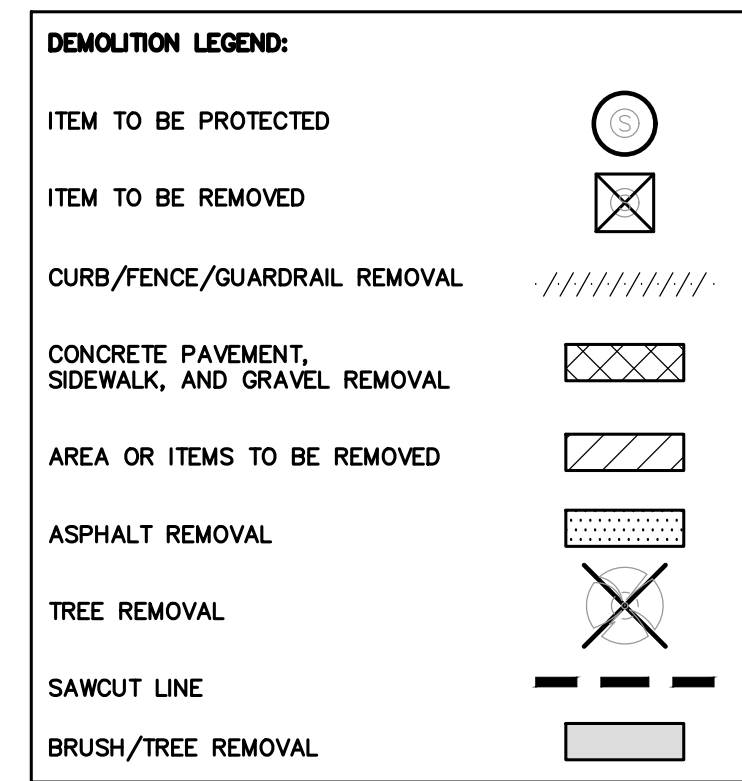
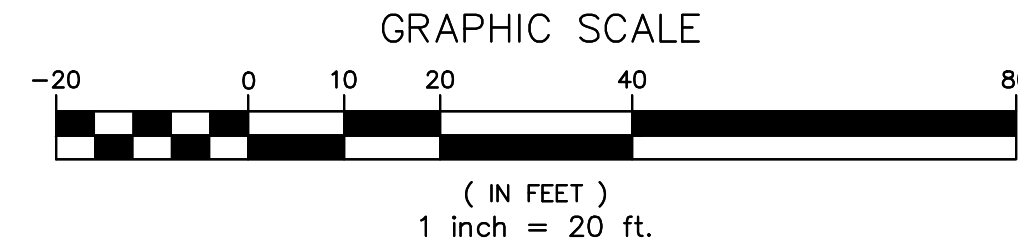
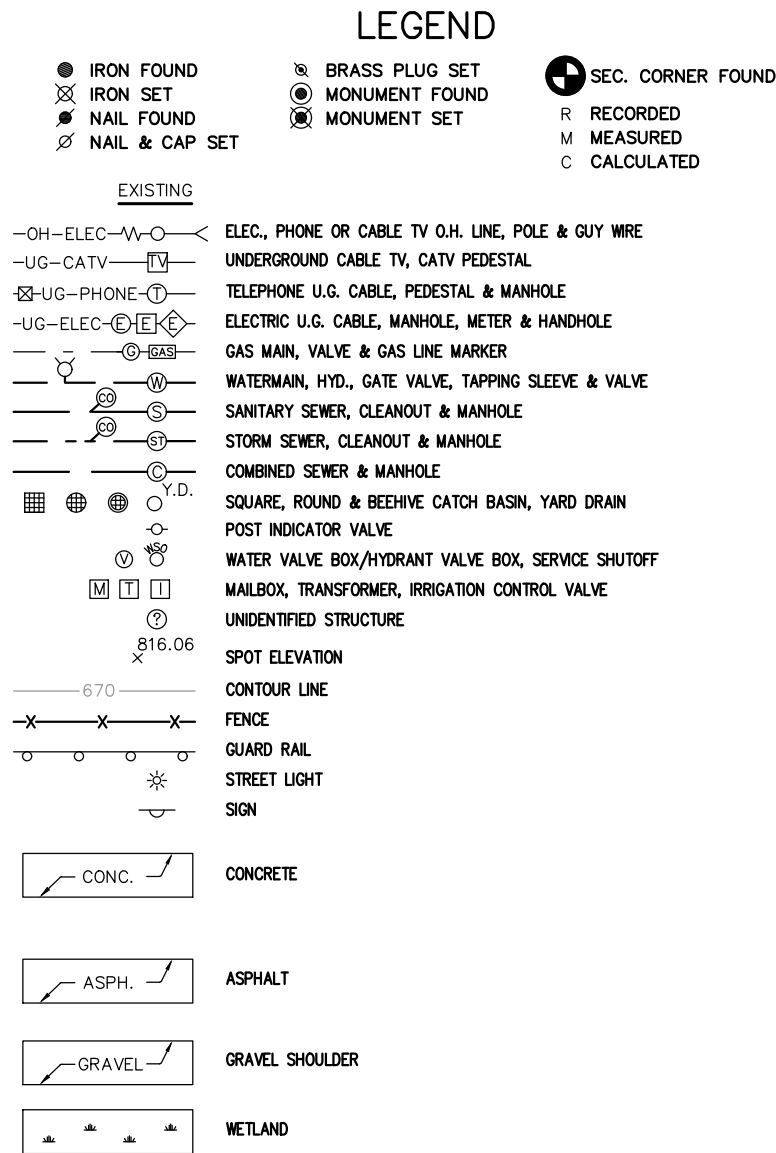
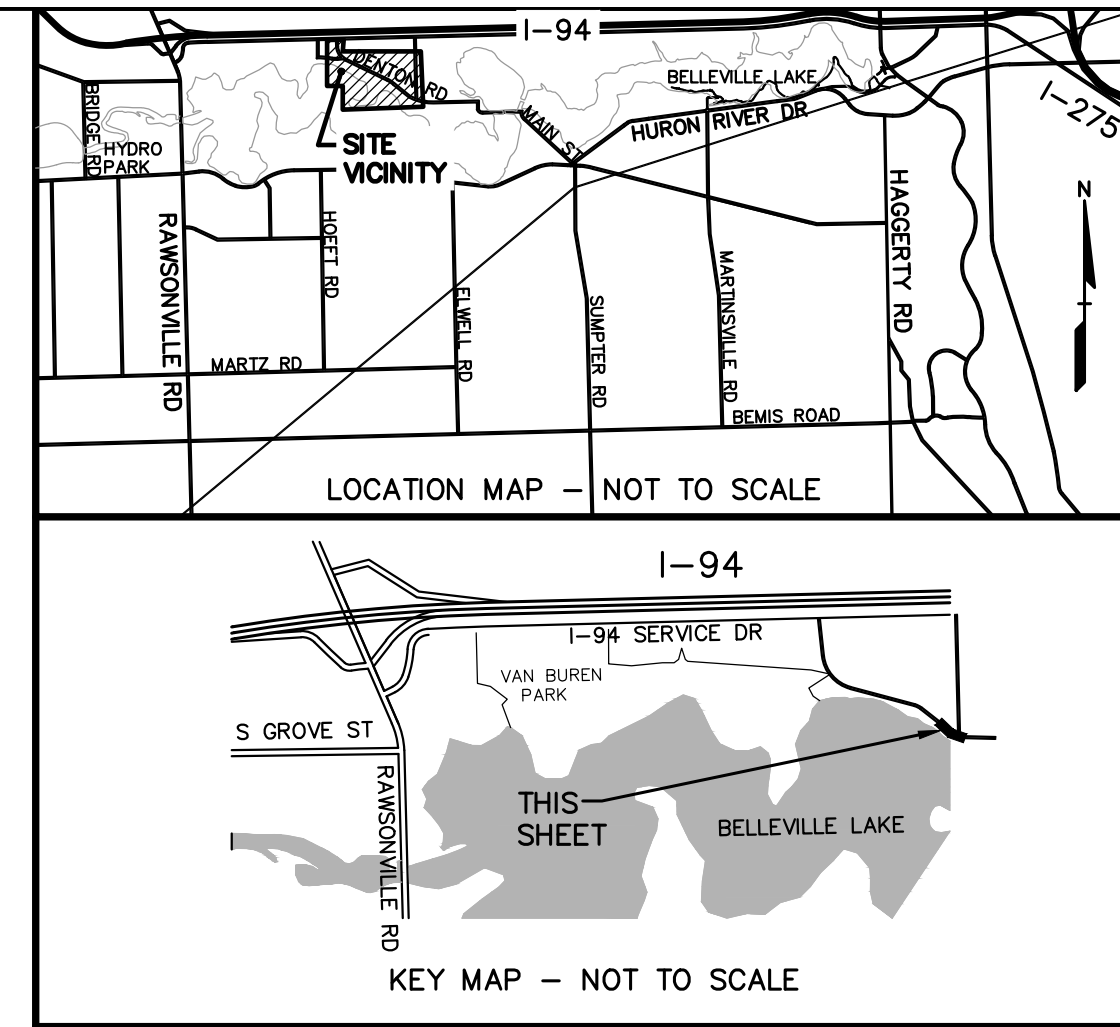
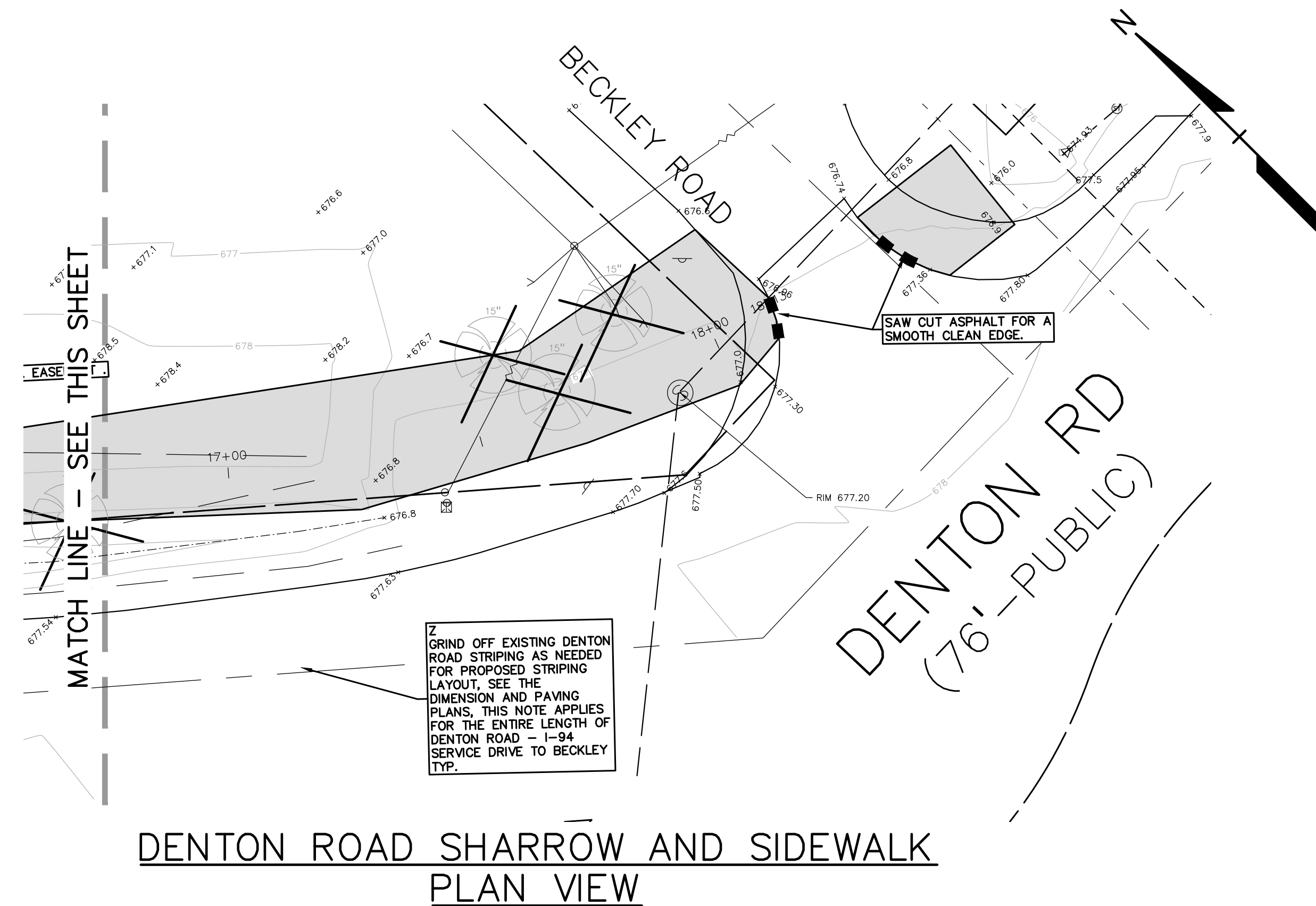
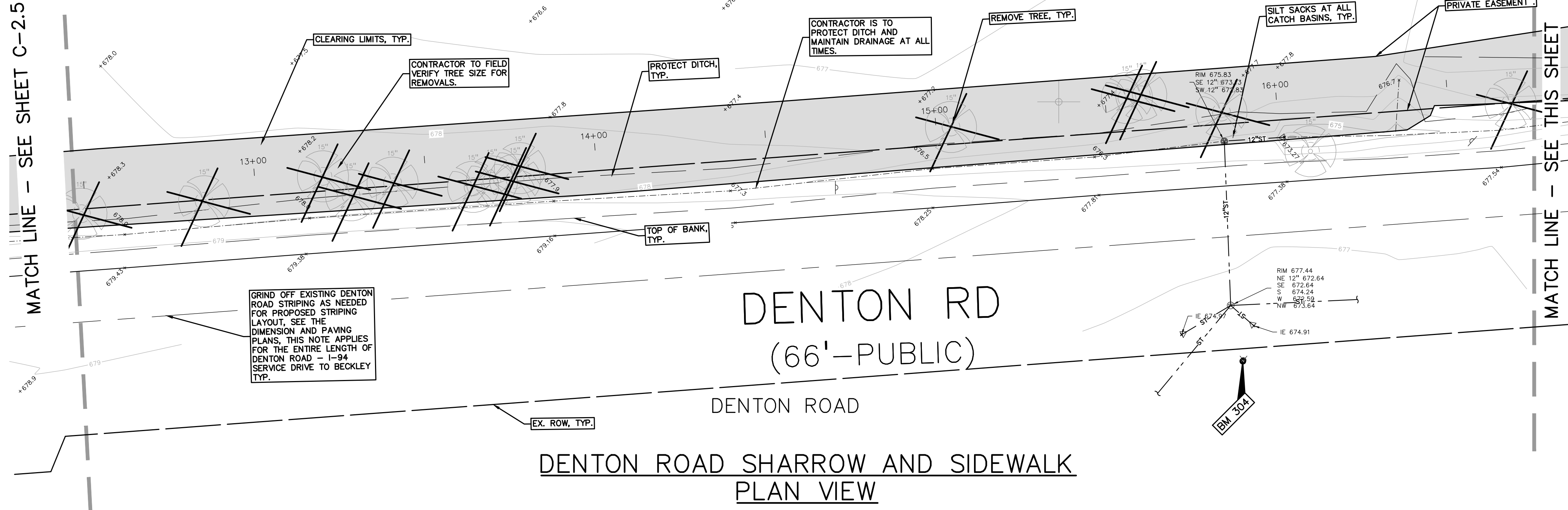
**TOPO SURVEY AND DEMO PLAN
IRON BELLE TRAIL-SECTION D**

WAYNE COUNTY, MI

DES.	JMR	DN	SUR.	JW	P.M.
PROJECTS 2019-2019 - 369 VAN BUREN ON VOMAC'S PLANS 19-369 MI PATHWAY-SECTION D(C-D-2) TPO					

ORIGINAL ISSUE DATE: MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1"=20'
DRAWING NUMBER: C-2.4

MATCH LINE - SEE SHEET C-2.5



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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLK-19369.DWG

REVISIONS	
NO.	DESCRIPTION
1	BY JMR JWC REVISIONS
2	BY JMR JWC REVISIONS

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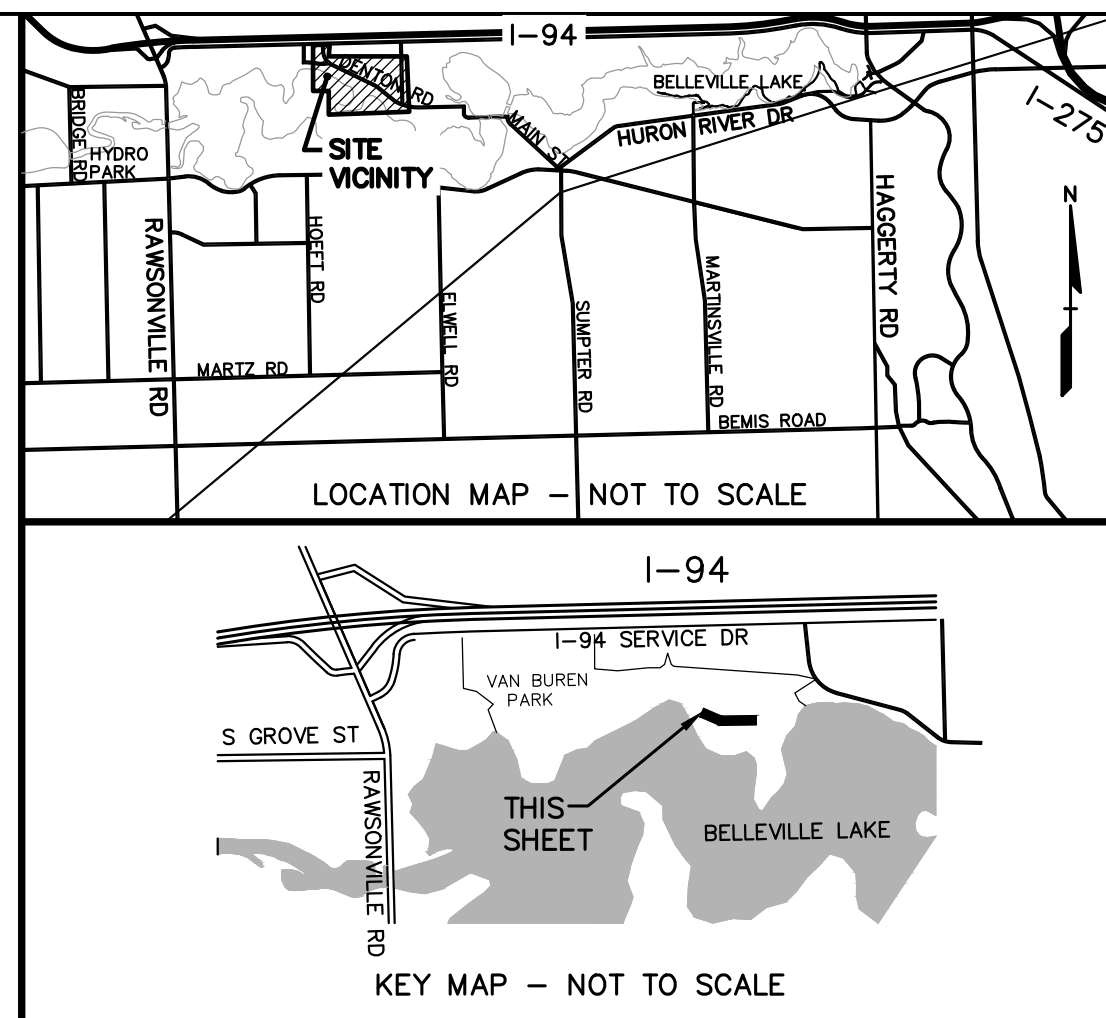
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TOPO SURVEY AND DEMO PLAN	
IRON BELLE TRAIL-SECTION D	
DES.	JMR
DN.	JW
SUR.	JW
US.	

ORIGINAL ISSUE DATE:
MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1"=20'
DRAWING NUMBER:
C-2.6



2	BY JMR	MC REVISIONS	5/6/54
1.	BY JMR	MC REVISIONS	4/16/54
REVISIONS			

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LAYOUT AND STRIPING PLAN

IRON BELLE TRAIL-SECTION D

WAYNE COUNTY, MI

JMR	DN.	SUR.	JW	P.M.
2001-2009 - 369	Van Buren	ATWISGATE PLANS P-369	Van Paterson-Division (DVC-13)	LAWSON

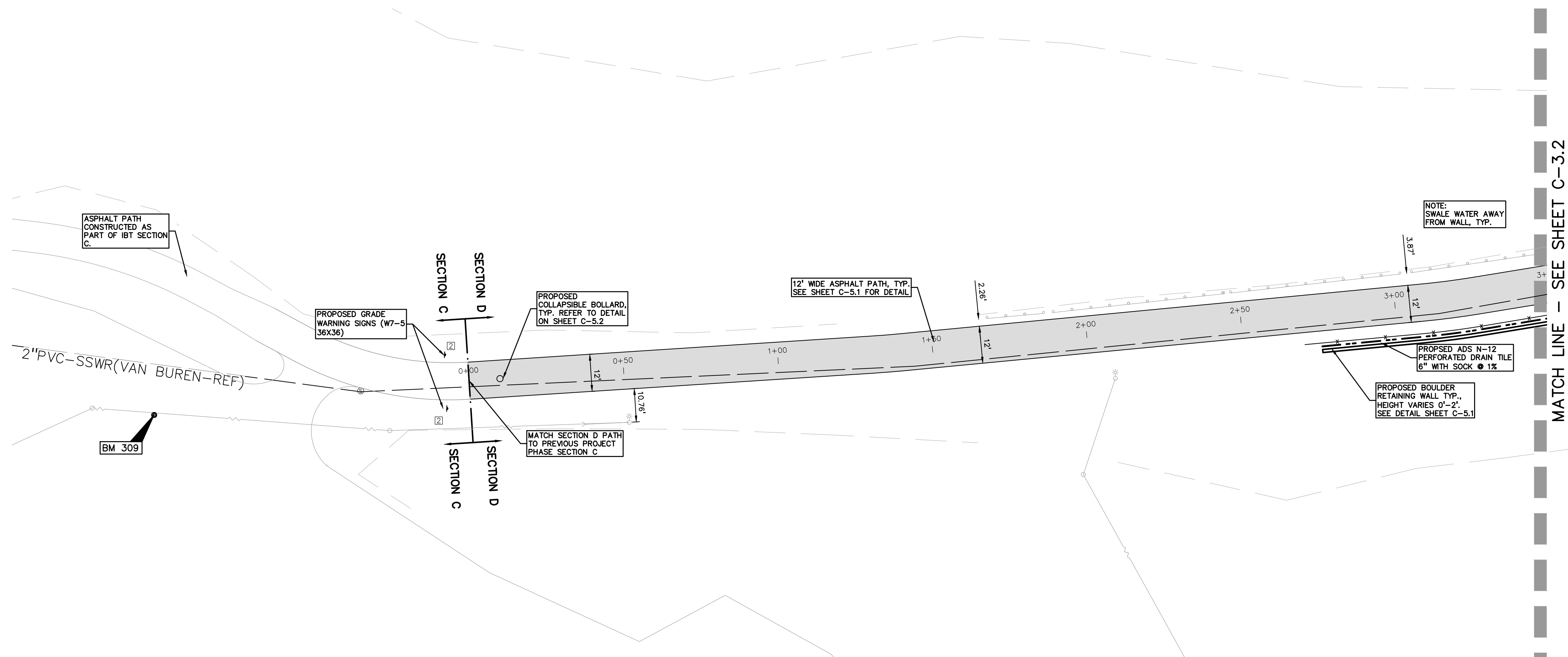
ORIGINAL ISSUE DATE:
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PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:

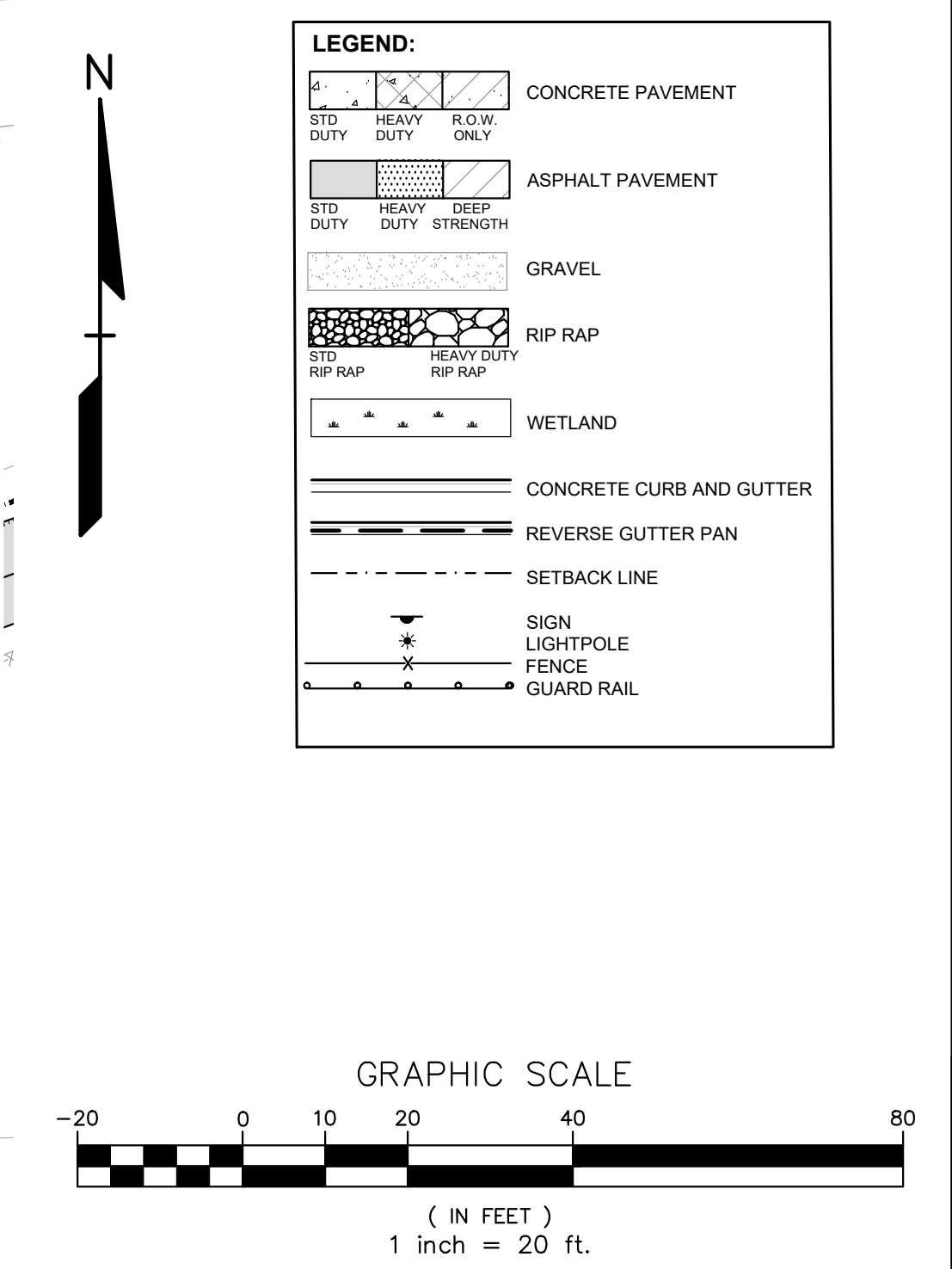
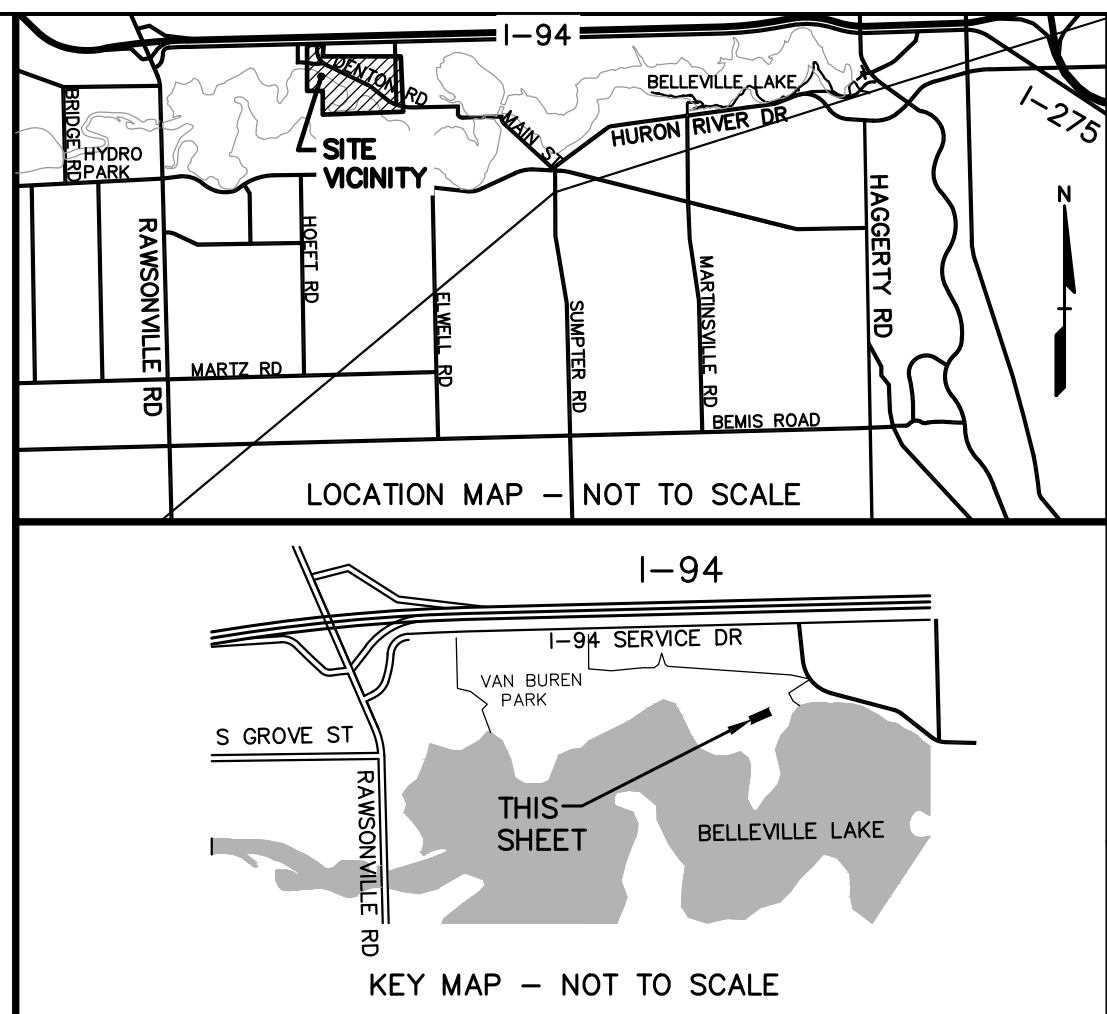
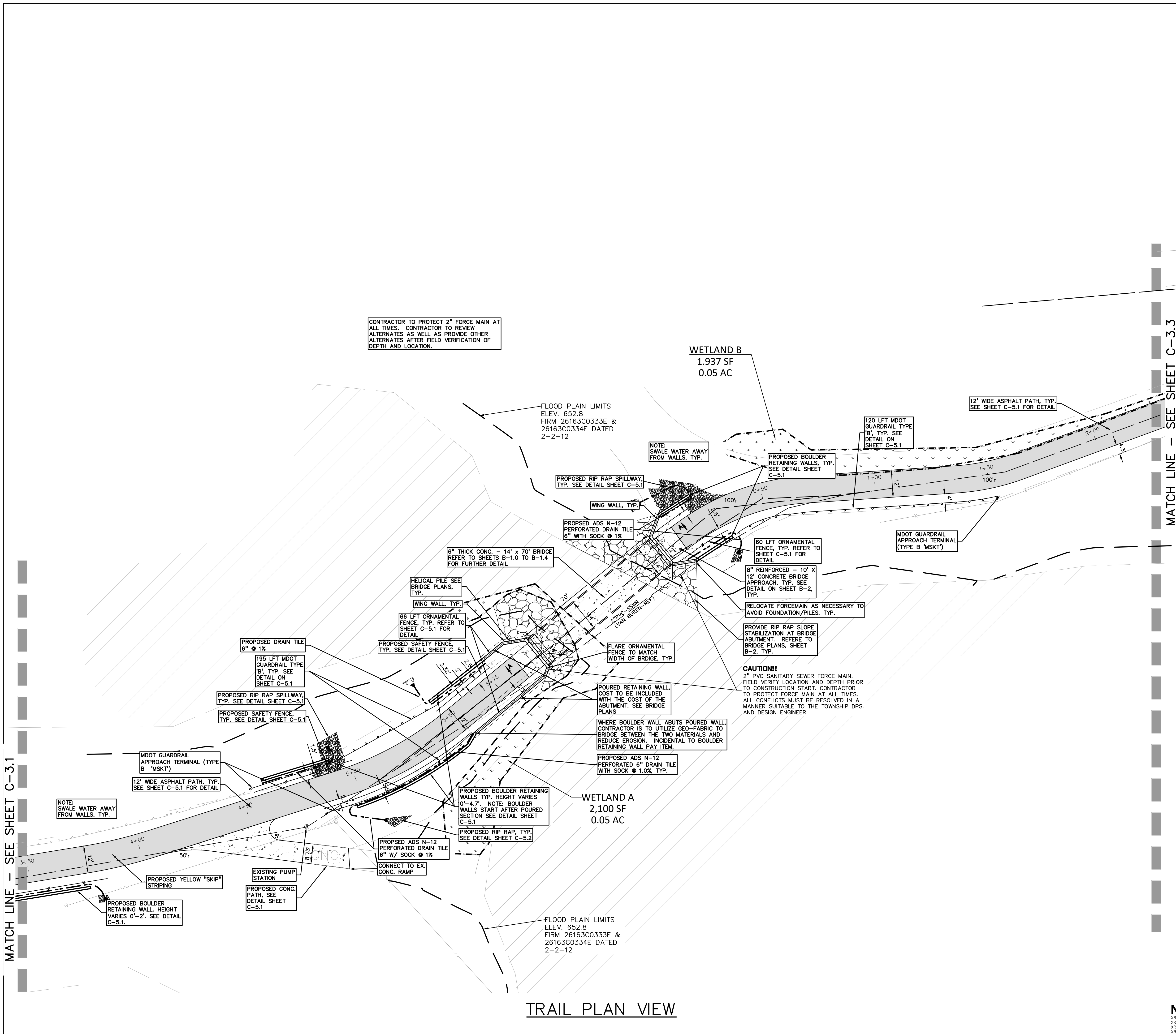
C-3.1



TRAIL PLAN VIEW

NOT FOR CONSTRUCTION

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN IBT\DWG\19369-TOPOBASE.DWG
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NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\SITE PLAN\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES. JMR DN. SUR. JW P.M. US

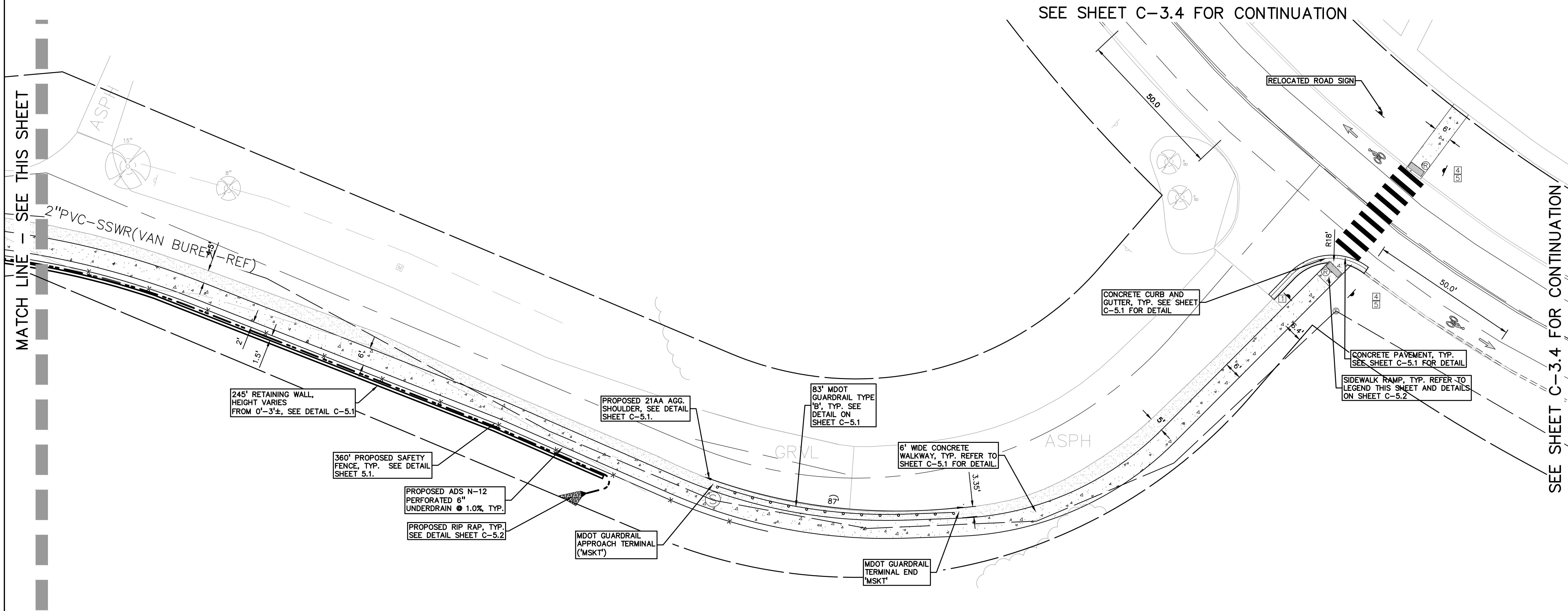
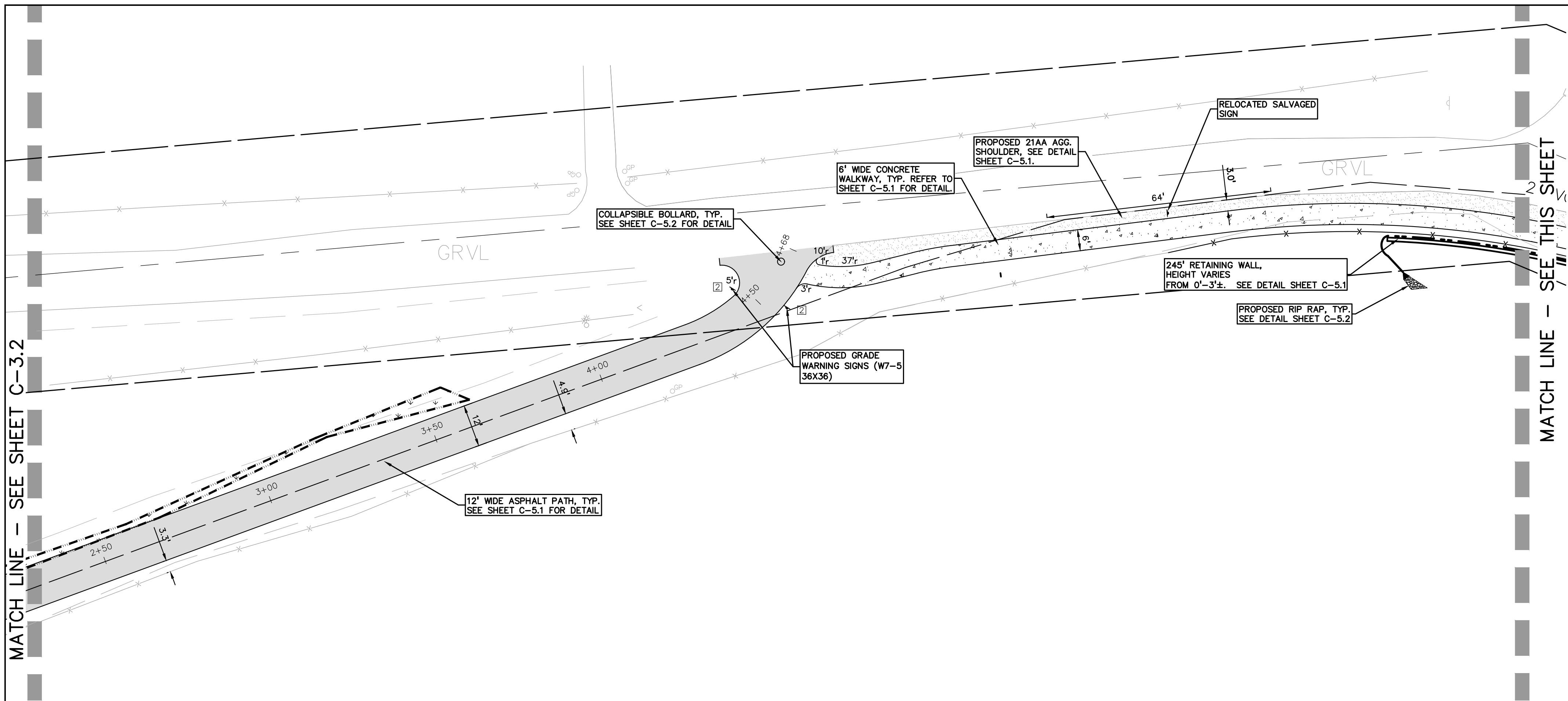
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MARCH 19, 2021

PEA JOB NO. 2019-369

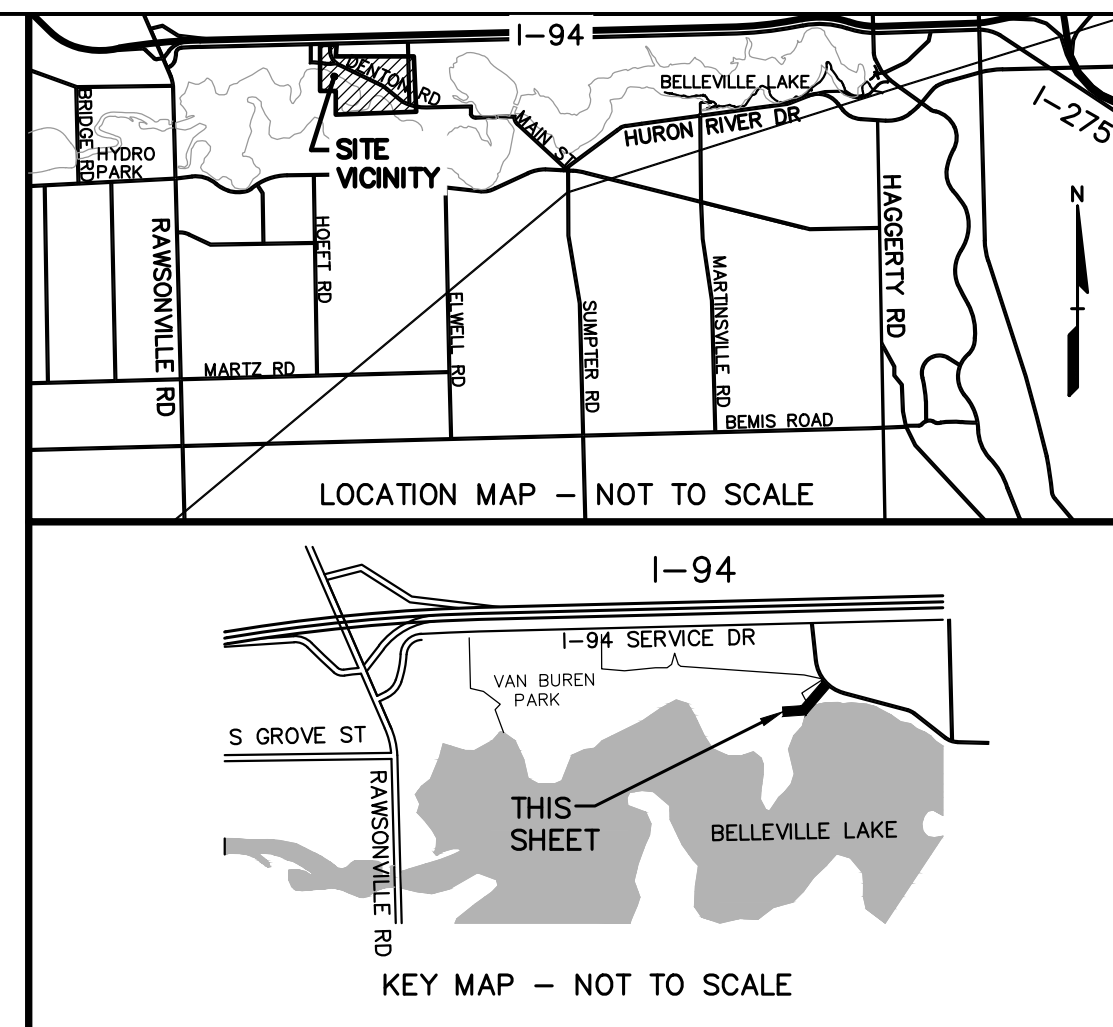
SCALE: 1" = 20'

DRAWING NUMBER:
C-3.2

REVISIONS					
NO.	BY	DATE	DESCRIPTION	DATE	BY
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2	JMR	3/19/21	ISSUED FOR PERMIT		

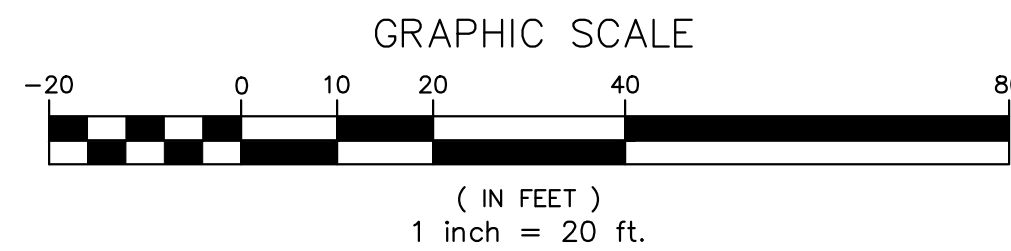


TRAIL PLAN VIEW



LEGEND:

CONCRETE PAVEMENT	CONCRETE CURB AND GUTTER
ASPHALT PAVEMENT	REVERSE GUTTER PAN
GRAVEL	SETBACK LINE
RIP RAP	SIGN
WETLAND	LIGHTPOLE
	FENCE
	GUARD RAIL



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 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	(R)
SIDEWALK RAMP 'TYPE F'	(F)
SIDEWALK RAMP 'TYPE P'	(P)
SIDEWALK RAMP 'TYPE C'	(C)
SIDEWALK RAMP 'TYPE D'	(D)
CURB DROP ONLY	(X)

SIGN LEGEND:

'STOP' SIGN	(S)
W7-5	(W7-5)
R3-17	(R3-17)
W11-2	(W11-2)
W16-7pL	(W16-7pL)
W16-9p	(W16-9p)

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\19369-TOPOBASE.DWG
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (B)\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLX-19369.DWG

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	BT	11/10/20	ISSUED FOR PERMIT
2	JMR	03/19/21	REVISED FOR CONSTRUCTION

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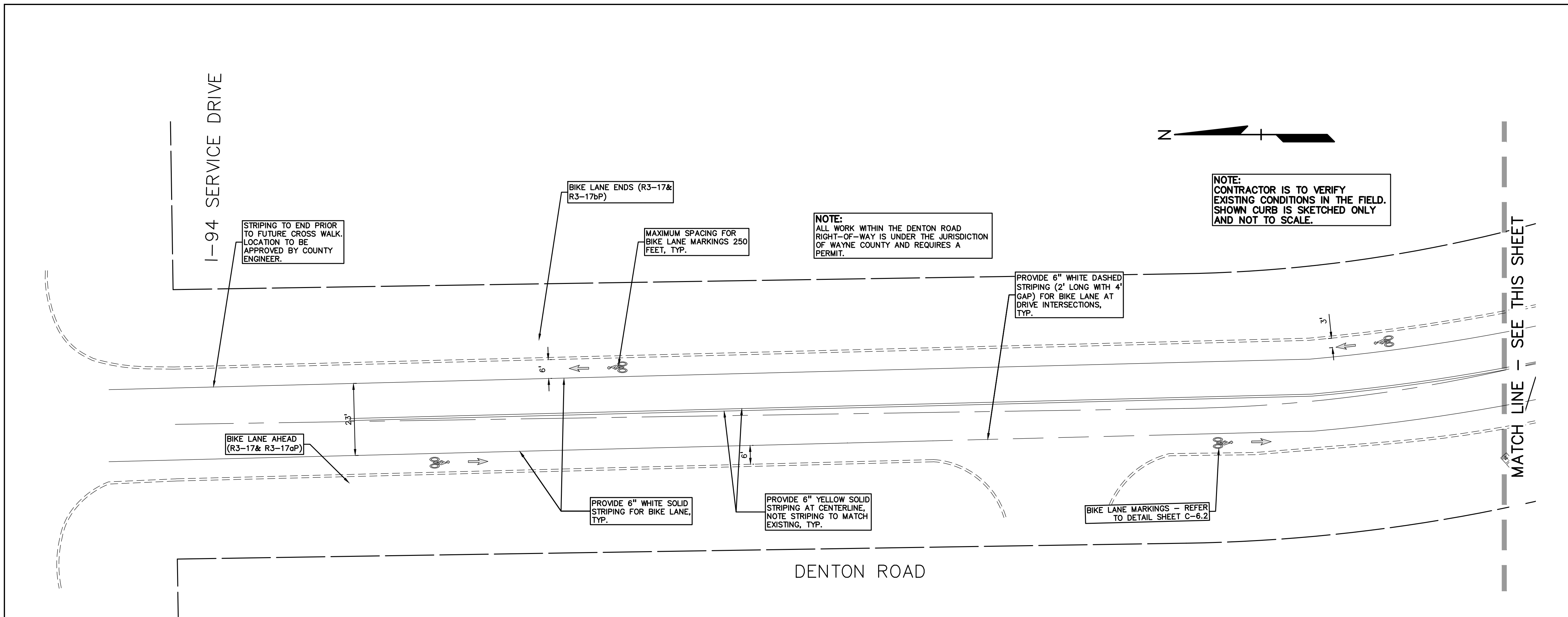
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48425 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111			
LAYOUT AND STRIPING PLAN IRON BELLE TRAIL-SECTION D			
DES.	JMR	DN.	JW
		SUR.	JW
		WAYNE COUNTY, MI	

ORIGINAL ISSUE DATE:
MARCH 19, 2021

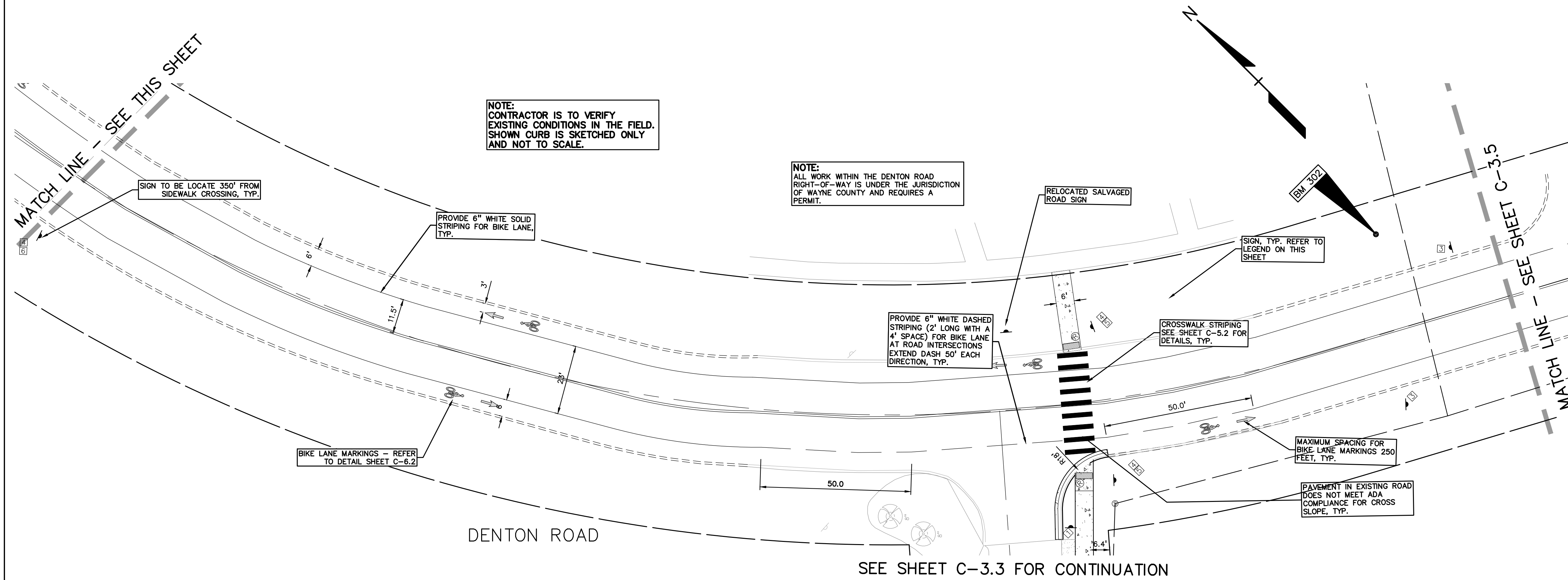
PEA JOB NO. 2019-369

SCALE: 1" = 20'

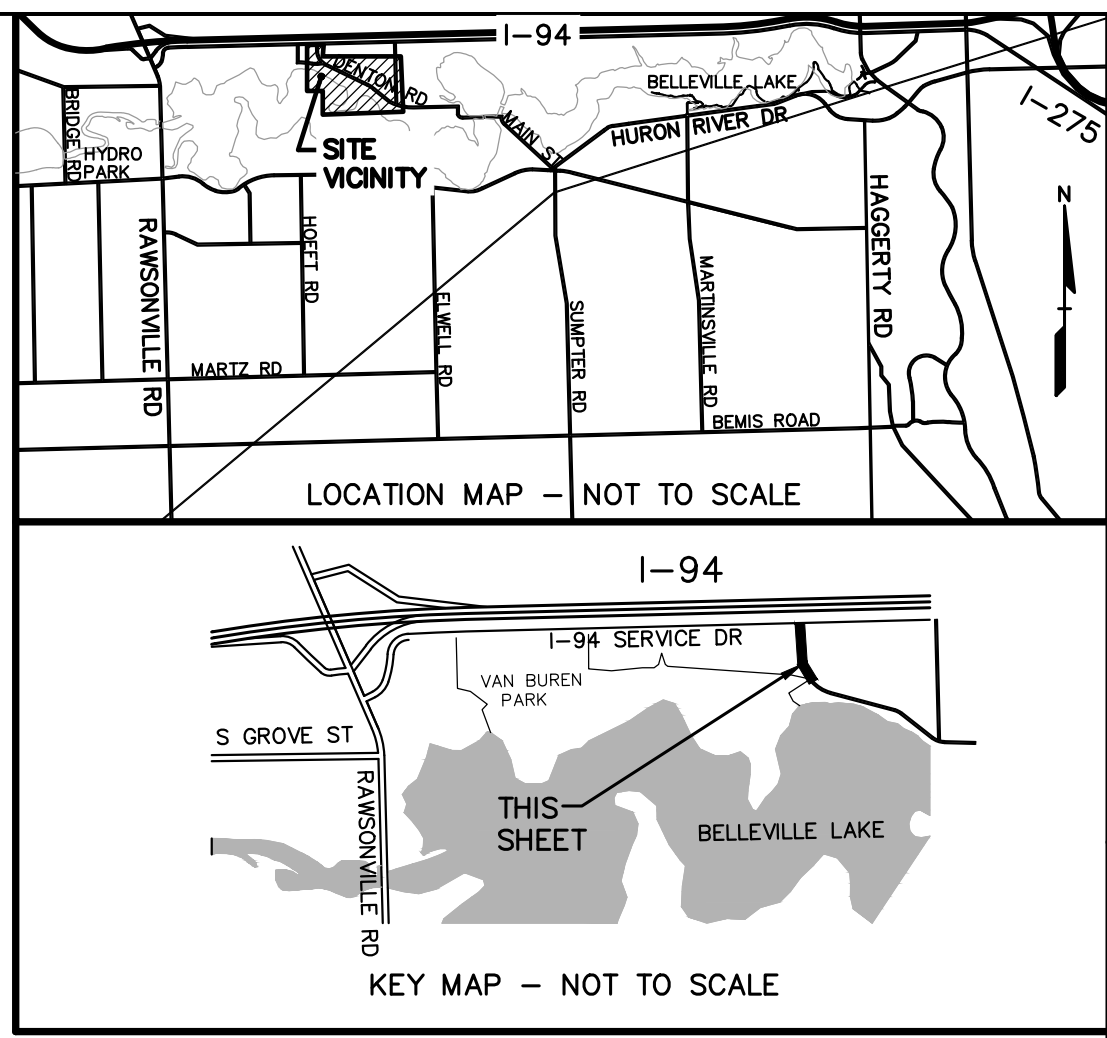
DRAWING NUMBER:
C-3.3



DENTON ROAD BIKE LANE PLAN VIEW

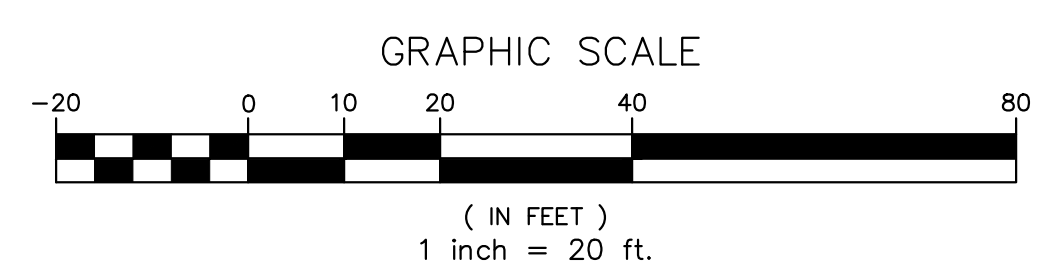


DENTON ROAD BIKE LANE PLAN VIEW



LEGEND:

CONCRETE PAVEMENT	CONCRETE CURB AND GUTTER
ASPHALT PAVEMENT	REVERSE GUTTER PAN
GRAVEL	SETBACK LINE
RIP RAP	SIGN
WETLAND	LIGHTPOLE
	FENCE
	GUARD RAIL



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 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	Ⓡ
SIDEWALK RAMP 'TYPE F'	Ⓢ
SIDEWALK RAMP 'TYPE P'	Ⓟ
SIDEWALK RAMP 'TYPE C'	Ⓢ
SIDEWALK RAMP 'TYPE D'	Ⓣ
CURB DROP ONLY	Ⓣ

SIGN LEGEND:

'STOP' SIGN	1
W7-5	2
R3-17	3
W11-2	4
W16-7pL	5
W16-9p	6

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REF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDW\SITE PLAN\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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REF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDW\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLK-19369.DWG

REVISIONS	
NO.	DATE
1	11/19/2019
2	03/19/2021
BY: JMR	
CHECKED: JMR	
DESIGNED: JMR	
DRAWN: JMR	
SCALE: NOT TO SCALE	
DRAWING NUMBER: C-3.4	

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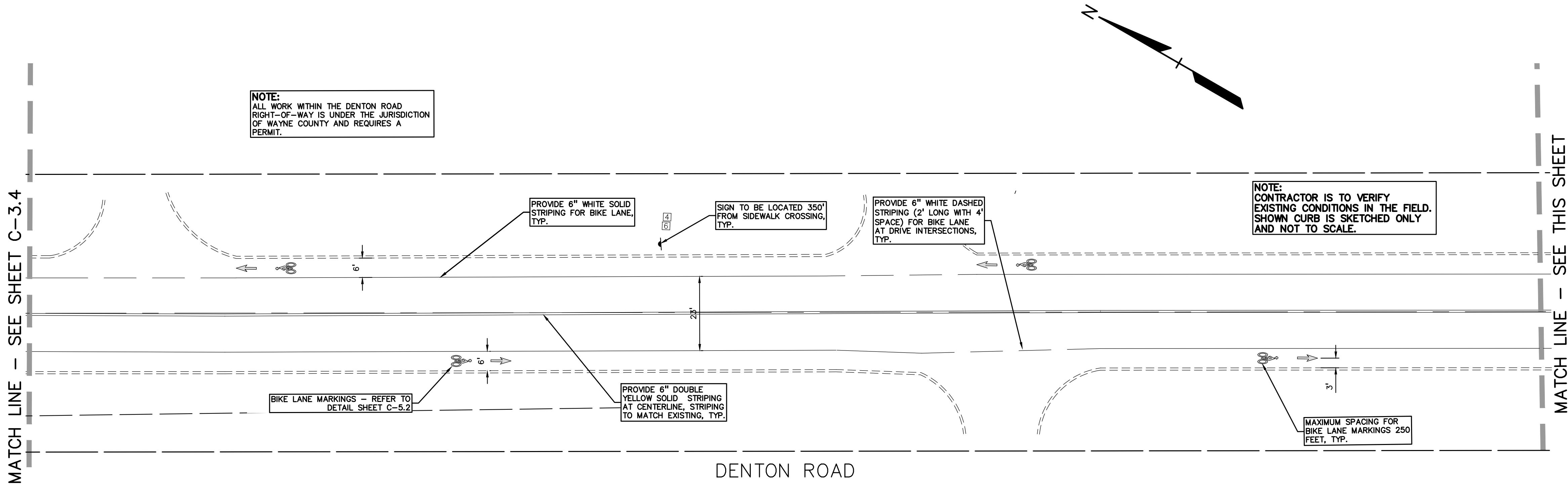
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VAN BUREN TOWNSHIP, MI 48111
LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES. JMR
SUR. JMR
DN. JMR
US
P.M.
JW
WAYNE COUNTY, MI

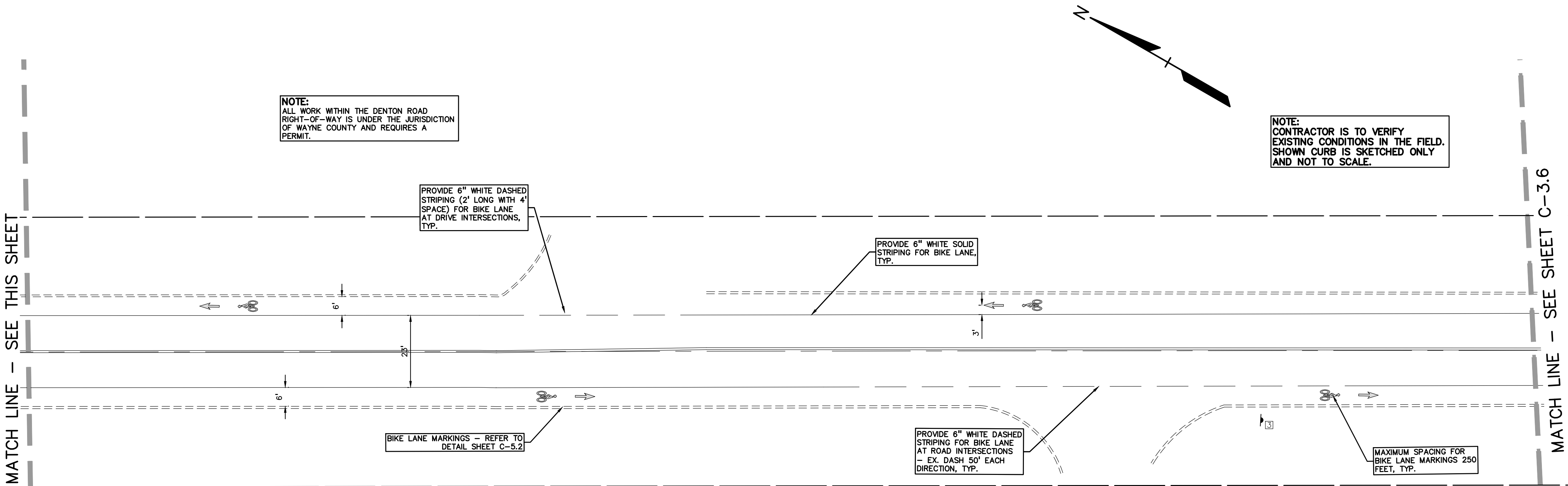
ORIGINAL ISSUE DATE:
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PEA JOB NO. 2019-369

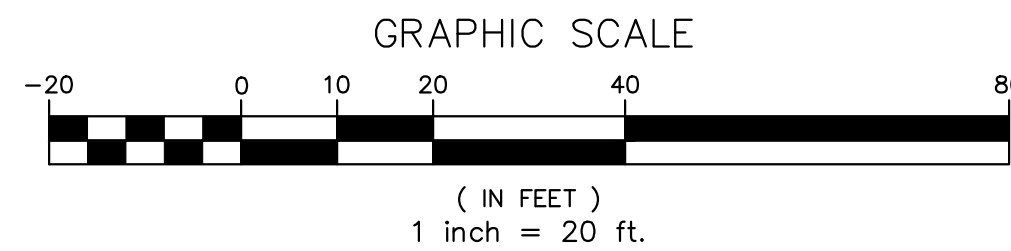
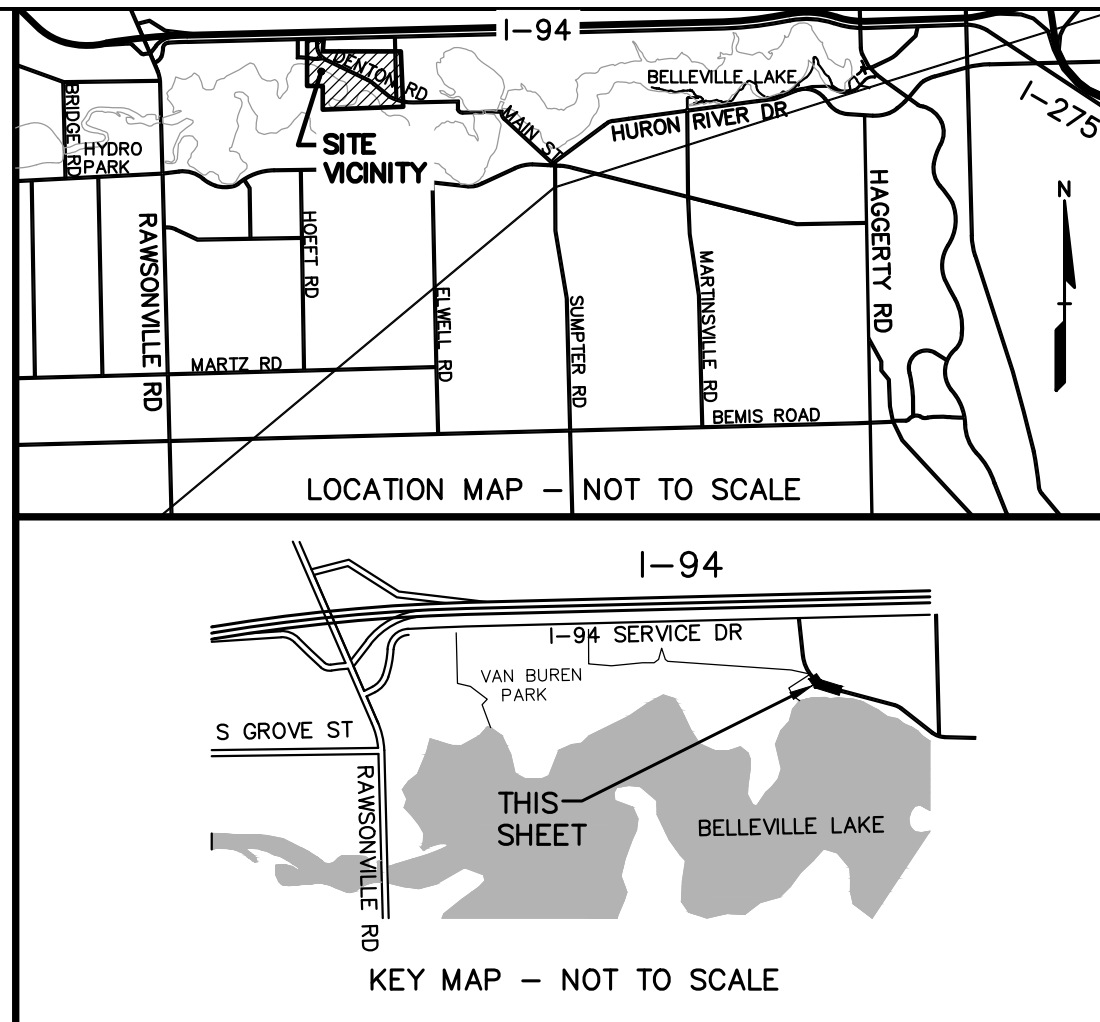
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DENTON ROAD BIKE LANE PLAN VIEW



DENTON ROAD BIKE LANE PLAN VIEW



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 2. REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
 3. REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

- SIDEWALK RAMP LEGEND:
- | | |
|------------------------|---|
| SIDEWALK RAMP 'TYPE R' | Ⓡ |
| SIDEWALK RAMP 'TYPE F' | Ⓢ |
| SIDEWALK RAMP 'TYPE P' | Ⓟ |
| SIDEWALK RAMP 'TYPE C' | Ⓢ |
| SIDEWALK RAMP 'TYPE D' | Ⓣ |
| CURB DROP ONLY | ⓧ |
- REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

- SIGN LEGEND:
- | | |
|-------------|---|
| 'STOP' SIGN | 1 |
| W7-5 | 2 |
| R3-17 | 3 |
| W11-2 | 4 |
| W16-7pL | 5 |
| W16-9p | 6 |
- REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDW\19369-TOPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDW\SITE PLAN\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDW\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLX-19369.DWG

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	5-16-23	JMR	W/C REVISIONS
2	4-10-23	JMR	W/C REVISIONS

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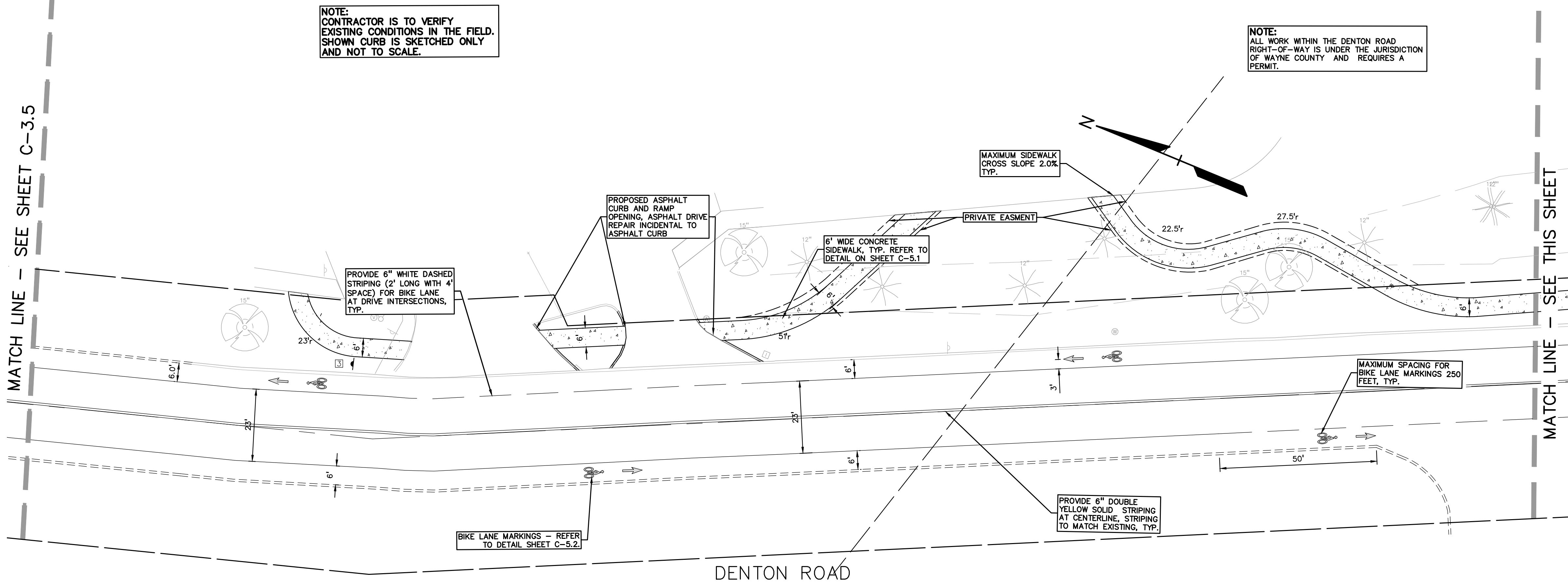
ORIGINAL ISSUE DATE:
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PEA JOB NO. 2019-369

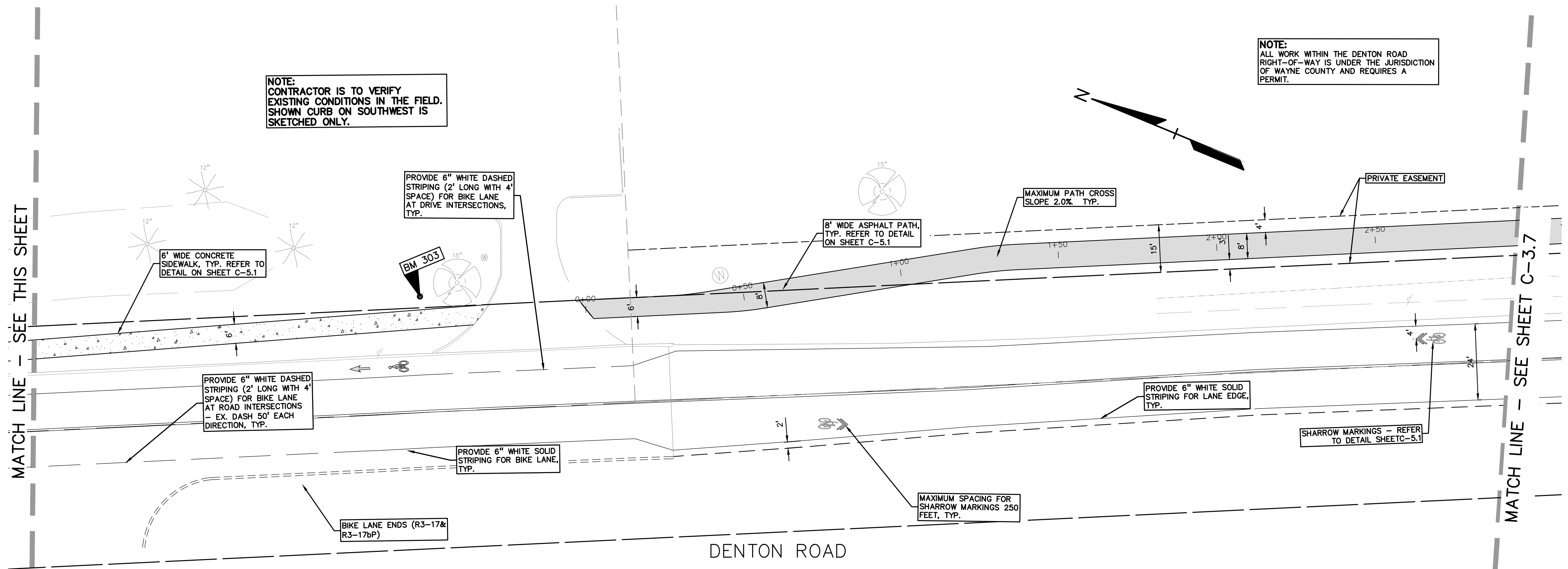
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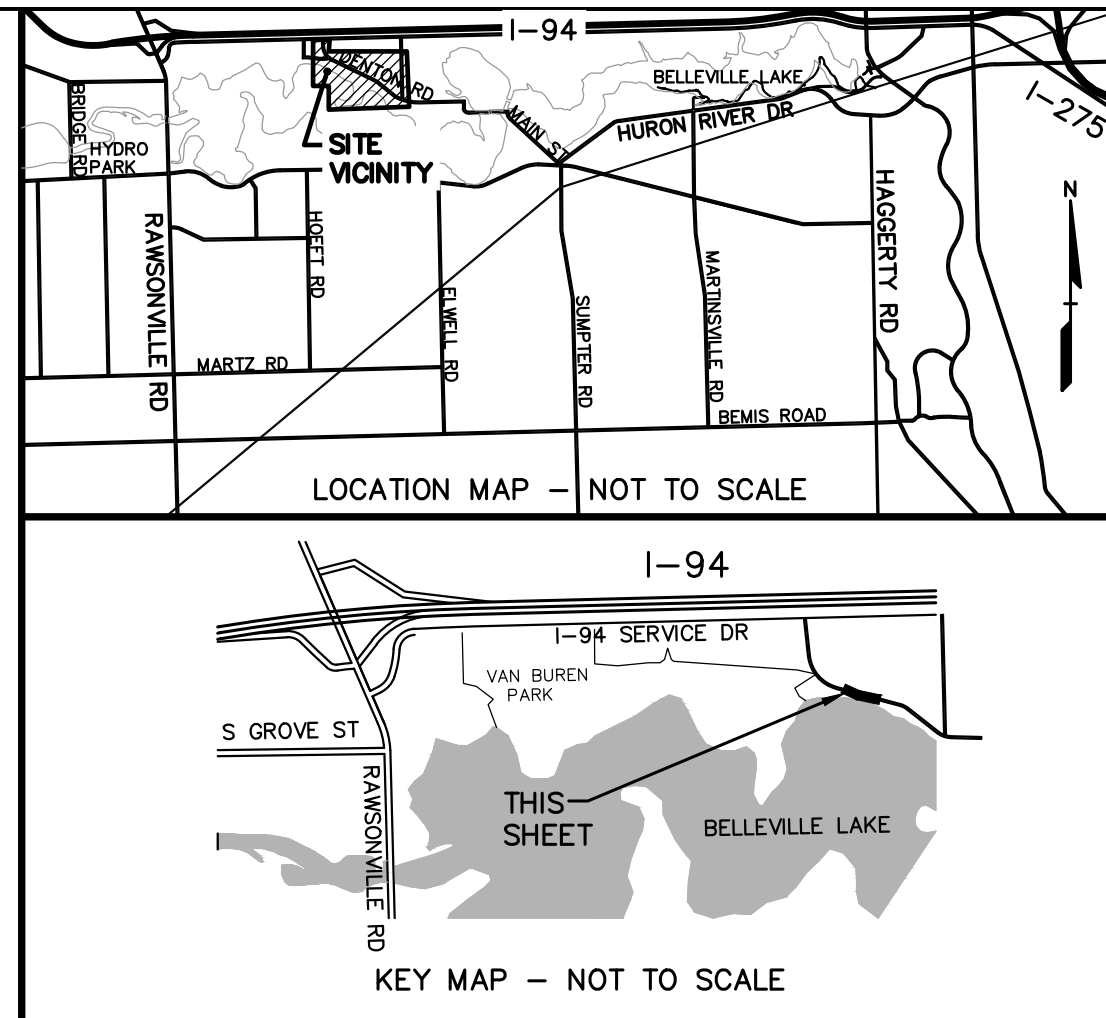
C-3.5



DENTON ROAD BIKE LANE AND SIDEWALK
PLAN VIEW



DENTON ROAD BIKE LANE/SHARROW AND
SIDEWALK PLAN VIEW



REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	JMR	5-16-23	INITIAL REVISIONS
2	JMR	5-16-23	W/0 REVISIONS

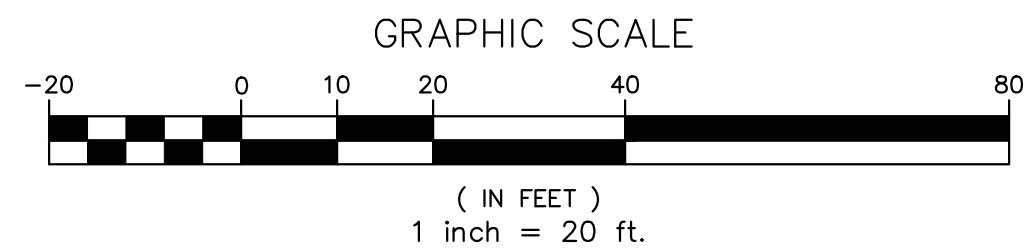
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- GENERAL NOTES:
- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:	
SIDEWALK RAMP 'TYPE R'	Ⓡ
SIDEWALK RAMP 'TYPE F'	ⓕ
SIDEWALK RAMP 'TYPE P'	Ⓟ
SIDEWALK RAMP 'TYPE C'	Ⓒ
SIDEWALK RAMP 'TYPE D'	ⓓ
CURB DROP ONLY	ⓧ
REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.	

SIGN LEGEND:	
'STOP' SIGN	①
W7-5	②
R3-17	③
W11-2	④
W16-7pL	⑤
W16-9p	⑥
REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS	

VAN BUREN TOWNSHIP
48425 TYLER ROAD
VAN BUREN TOWNSHIP, MI 48111
LAYOUT AND STRIPING PLAN
IRON BELLE TRAIL-SECTION D

DES. JMR DN. JMR SUR. JMR WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

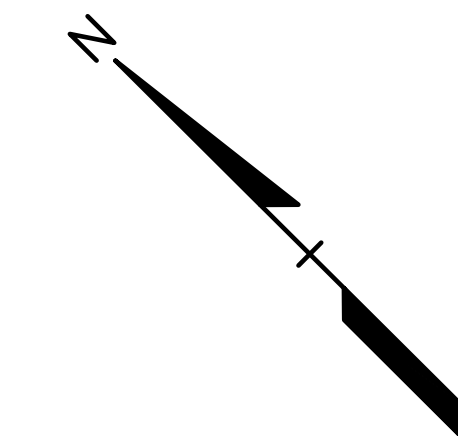
PEA JOB NO. 2019-369

SCALE: 1"=20'

DRAWING NUMBER:
C-3.6

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDWC\SITE PLAN\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDWC\19369-TOPBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDWC\SITE PLAN\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDWC\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLX-19369.DWG



MATCH LINE - SEE SHEET C-3.6

NOTE:
ALL WORK WITHIN THE DENTON ROAD
RIGHT-OF-WAY IS UNDER THE JURISDICTION
OF WAYNE COUNTY AND REQUIRES A
PERMIT.

8' WIDE ASPHALT PATH,
TYP. REFER TO DETAIL
ON SHEET C-5.1.

RECONSTRUCT SIGN
LANDSCAPE BED AS
NECESSARY TO
ACCOMMODATE PATH.

PROVIDE 6" YELLOW SOLID
STRIPING AT CENTERLINE,
STRIPING TO MATCH
EXISTING, TYP.

PROVIDE 6" YELLOW SOLID
AND DASH STRIPING TO
MATCH EXISTING, TYP.

SHARROW MARKINGS - REFER
TO DETAIL SHEET C-5.2

PROVIDE 6" WHITE SOLID
STRIPING FOR LANE EDGE,
TYP.

MAXIMUM SPACING FOR
SHARROW MARKINGS 250
FEET, TYP.

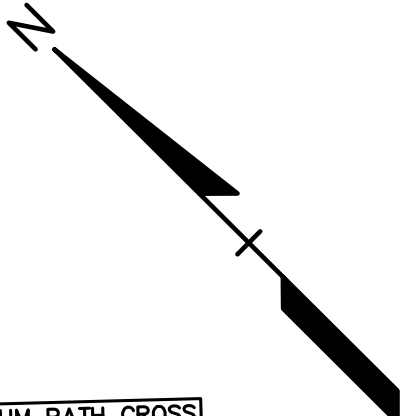
DENTON ROAD SHARROW AND SIDEWALK PLAN VIEW

DENTON RD
(76'-PUBLIC)

DENTON ROAD

MATCH LINE - SEE THIS SHEET

NOTE:
CONTRACTOR IS TO VERIFY
EXISTING CONDITIONS IN THE FIELD.
PAVEMENT IS SKETCHED ONLY
(SOUTH SIDE).



NOTE:
CONTRACTOR IS TO VERIFY
EXISTING CONDITIONS IN THE FIELD.
PAVEMENT IS SKETCHED ONLY
(SOUTH SIDE).

NOTE:
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PERMIT.

8' WIDE ASPHALT PATH,
TYP. REFER TO DETAIL
ON SHEET C-5.1.

PRIVATE EASEMENT

MAXIMUM PATH CROSS
SLOPE 2.0% TYP.

PROVIDE 6" WHITE SOLID
STRIPING FOR LANE EDGE,
TYP.

SHARROW MARKINGS - REFER
TO DETAIL SHEET C-5.2

6" WIDE YELLOW
DASHED ROAD CL
STRIPING, TYP.

MAXIMUM SPACING FOR
SHARROW MARKINGS 250
FEET, TYP.

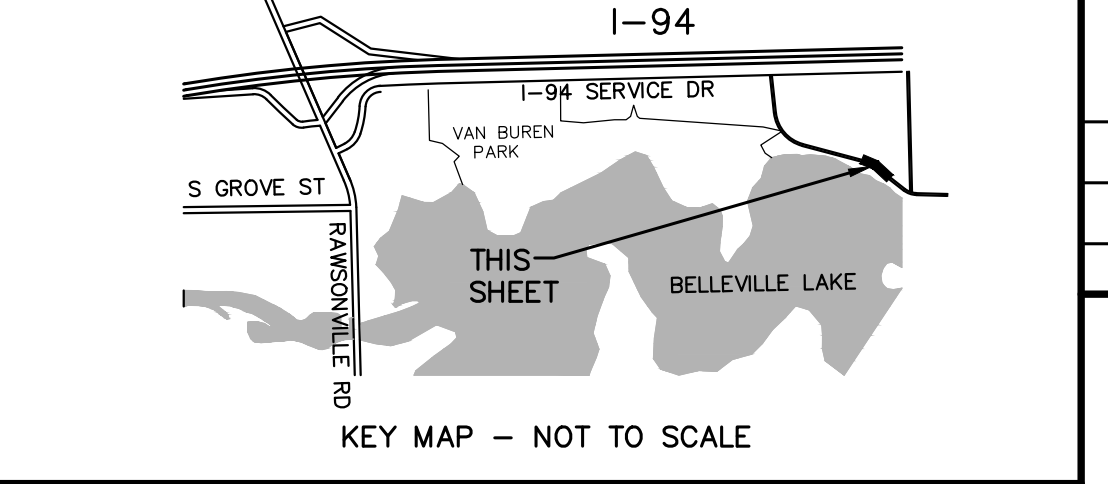
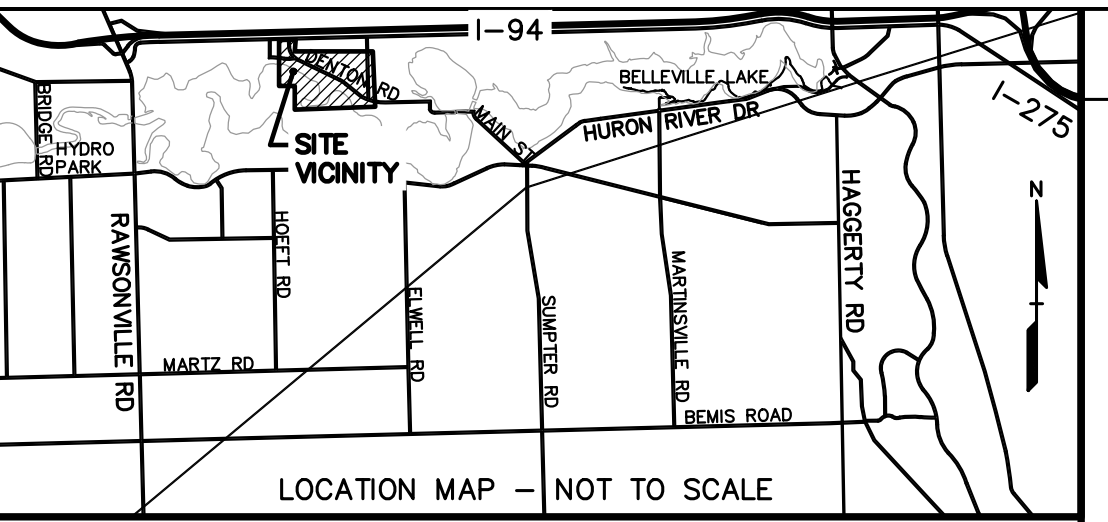
DENTON ROAD SHARROW AND SIDEWALK PLAN VIEW

DENTON RD
(76'-PUBLIC)

DENTON ROAD

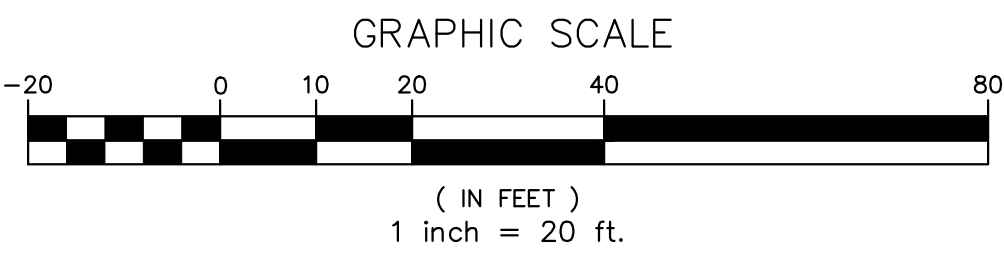
MATCH LINE - SEE THIS SHEET

MATCH LINE - SEE SHEET C-3.8



LEGEND:

CONCRETE PAVEMENT	CONCRETE CURB AND GUTTER
ASPHALT PAVEMENT	REVERSE GUTTER PAN
GRAVEL	SETBACK LINE
RIP RAP	SIGN
WETLAND	LIGHTPOLE
	FENCE
	GUARD RAIL



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 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	Ⓡ
SIDEWALK RAMP 'TYPE F'	Ⓡ
SIDEWALK RAMP 'TYPE P'	Ⓡ
SIDEWALK RAMP 'TYPE C'	Ⓡ
SIDEWALK RAMP 'TYPE D'	Ⓡ
CURB DROP ONLY	Ⓡ

SIGN LEGEND:

'STOP' SIGN	Ⓡ
W7-5	Ⓡ
R3-17	Ⓡ
W11-2	Ⓡ
W16-7pL	Ⓡ
W16-9p	Ⓡ

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

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VAN BUREN TOWNSHIP		JW		P.M.		J.S.	
48425 TYLER ROAD		SUR		DN		DES.	
VAN BUREN TOWNSHIP, MI 48111		WAYNE COUNTY, MI		VAN BUREN TOWNSHIP		VAN BUREN TOWNSHIP	
LAYOUT AND STRIPING PLAN		IRON BELLE TRAIL-SECTION D		VAN BUREN TOWNSHIP		VAN BUREN TOWNSHIP	
VAN BUREN TOWNSHIP		VAN BUREN TOWNSHIP		VAN BUREN TOWNSHIP		VAN BUREN TOWNSHIP	

ORIGINAL ISSUE DATE:
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PEA JOB NO. 2019-369

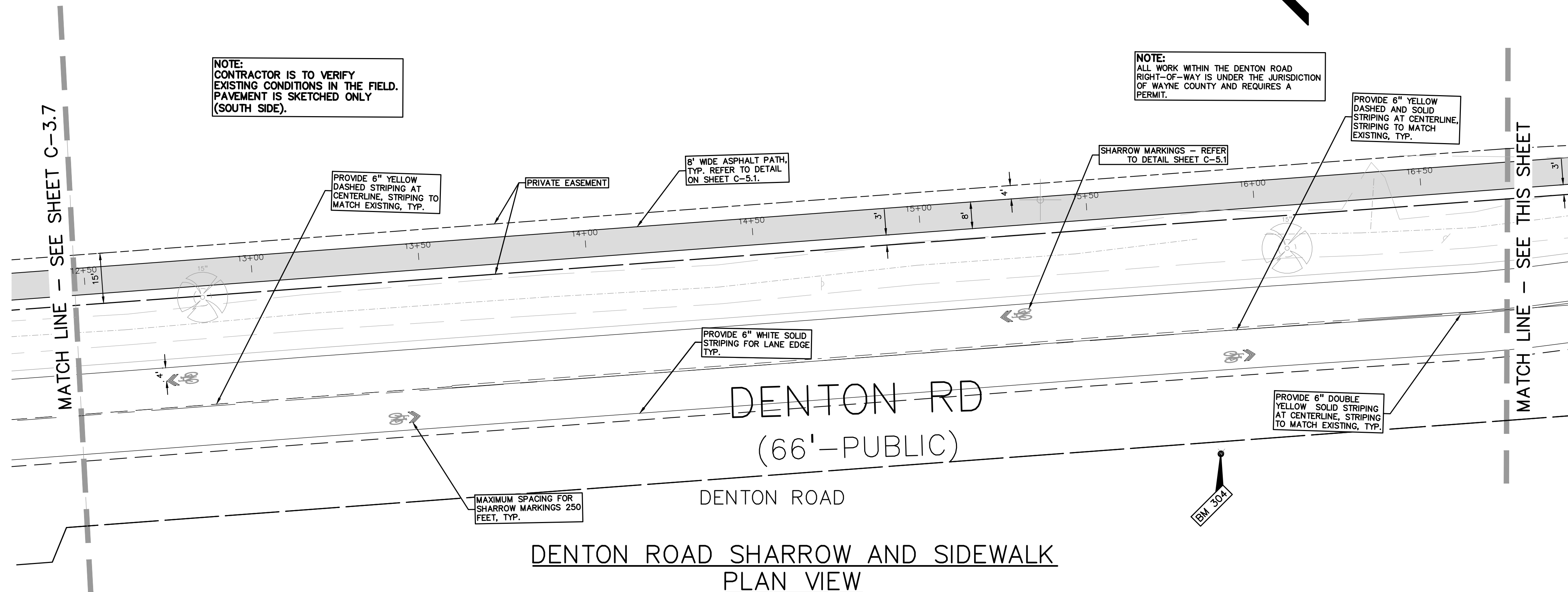
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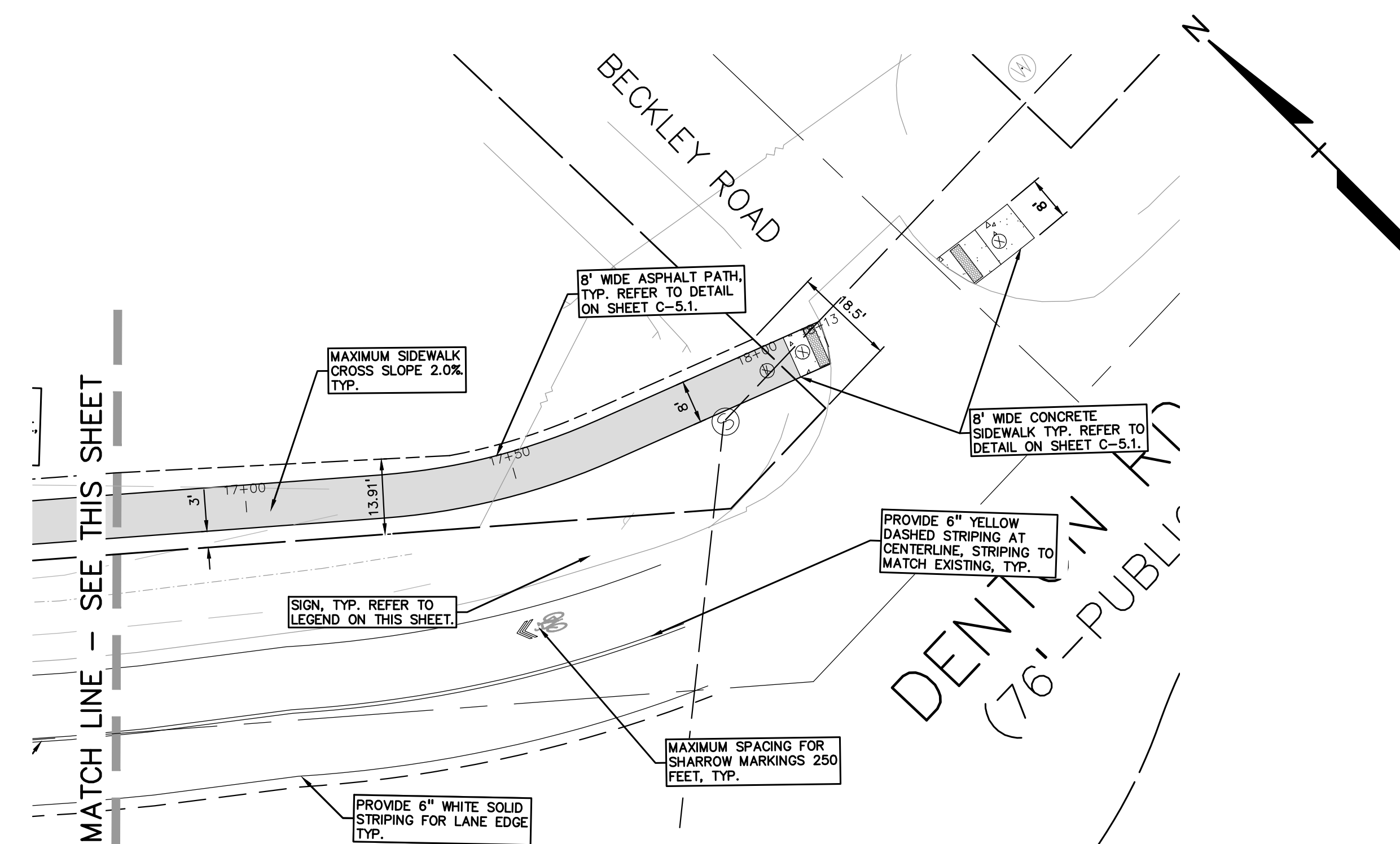
C-3.7

NOT FOR CONSTRUCTION

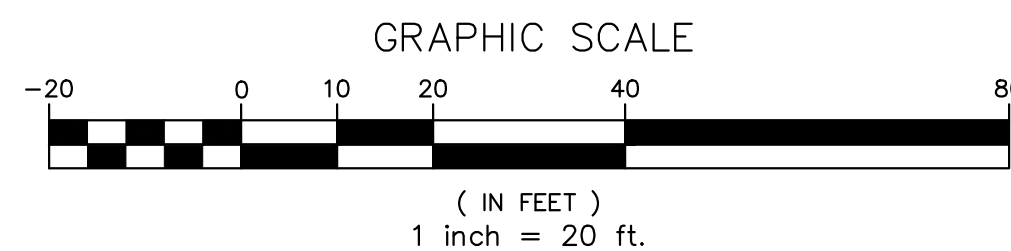
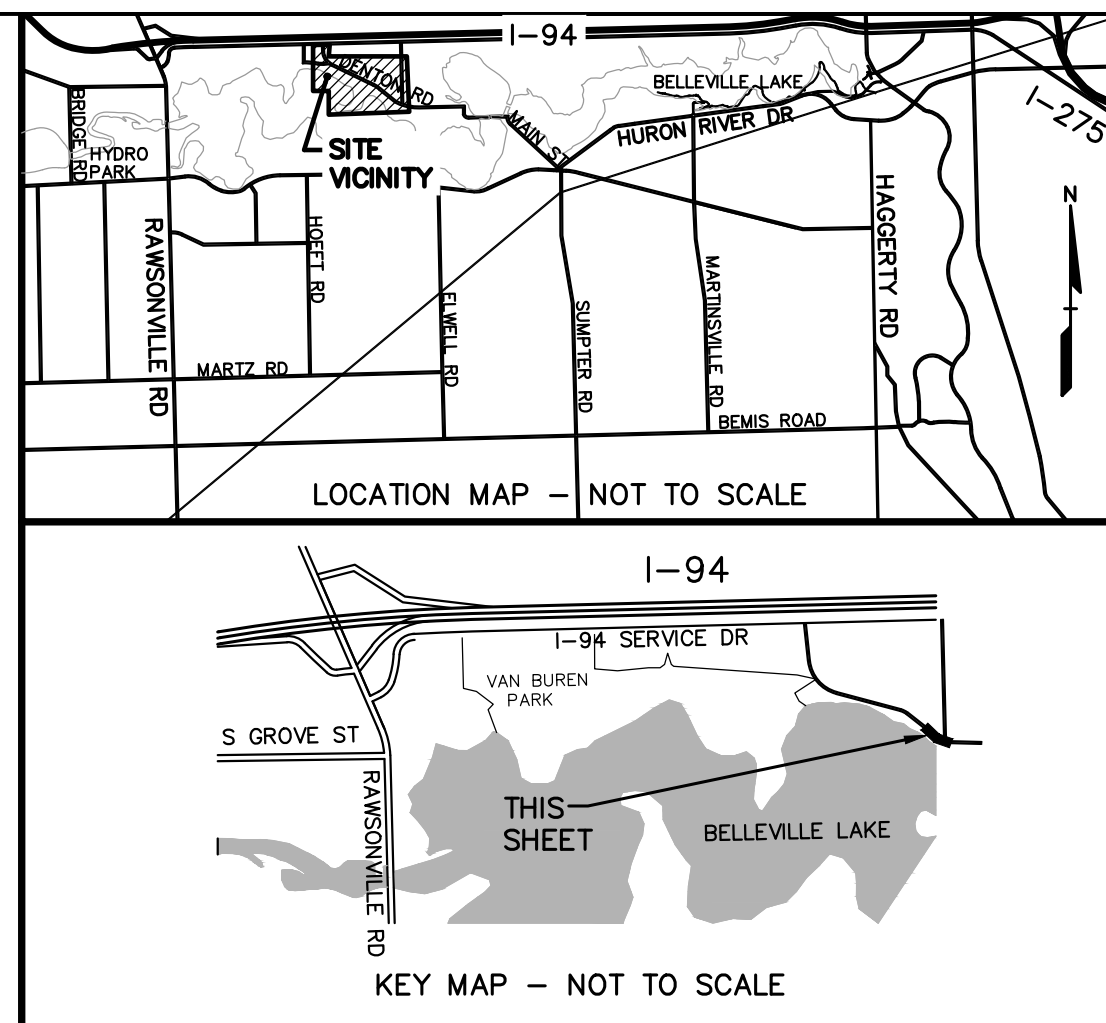
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DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



DENTON ROAD SHARROW AND SIDEWALK
PLAN VIEW



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 - REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP 'TYPE R'	(R)
SIDEWALK RAMP 'TYPE F'	(F)
SIDEWALK RAMP 'TYPE P'	(P)
SIDEWALK RAMP 'TYPE C'	(C)
SIDEWALK RAMP 'TYPE D'	(D)
CURB DROP ONLY	(X)

REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS. NOTE CONTRACTOR TO VERIFY RAMP TO BE UTILIZED AT EACH LOCATION.

SIGN LEGEND:

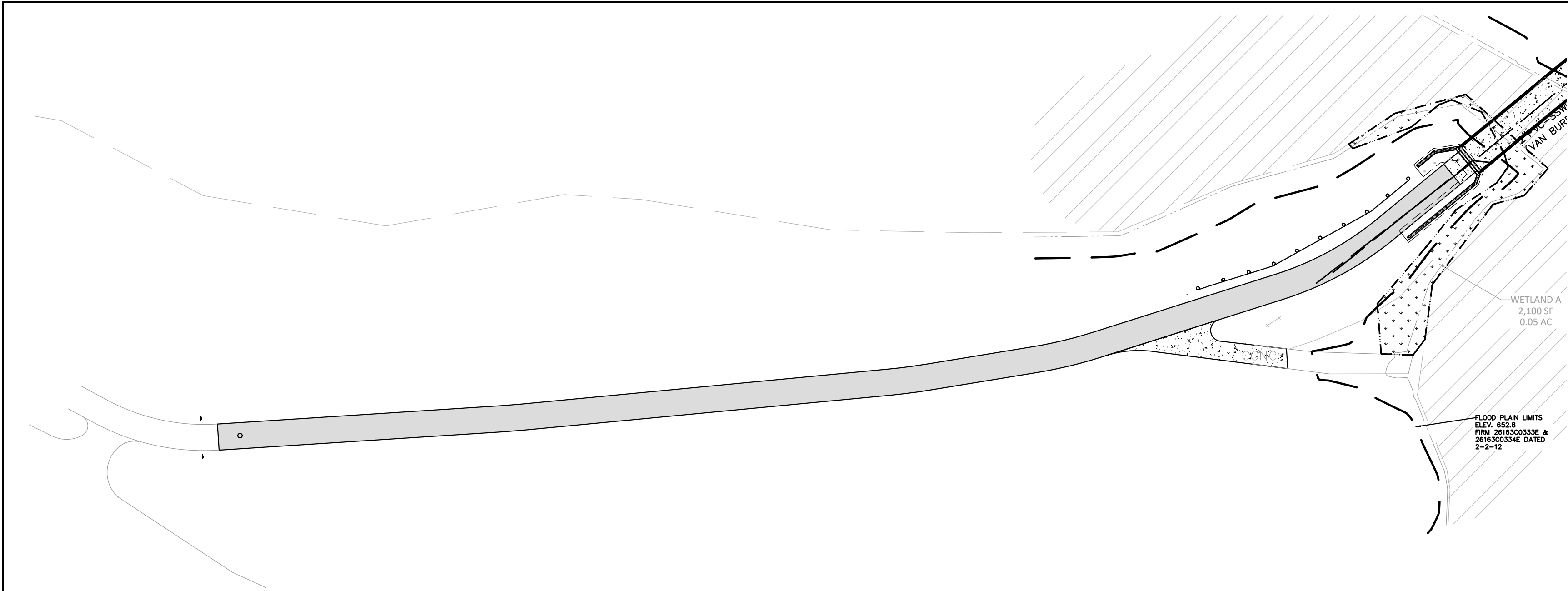
'STOP' SIGN	(S)
W7-5	(W7-5)
R3-17	(R3-17)
W11-2	(W11-2)
W16-7pL	(W16-7pL)
W16-9p	(W16-9p)

REFER TO DETAIL SHEET C-5.2 FOR SIGN DETAILS

NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTDW\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
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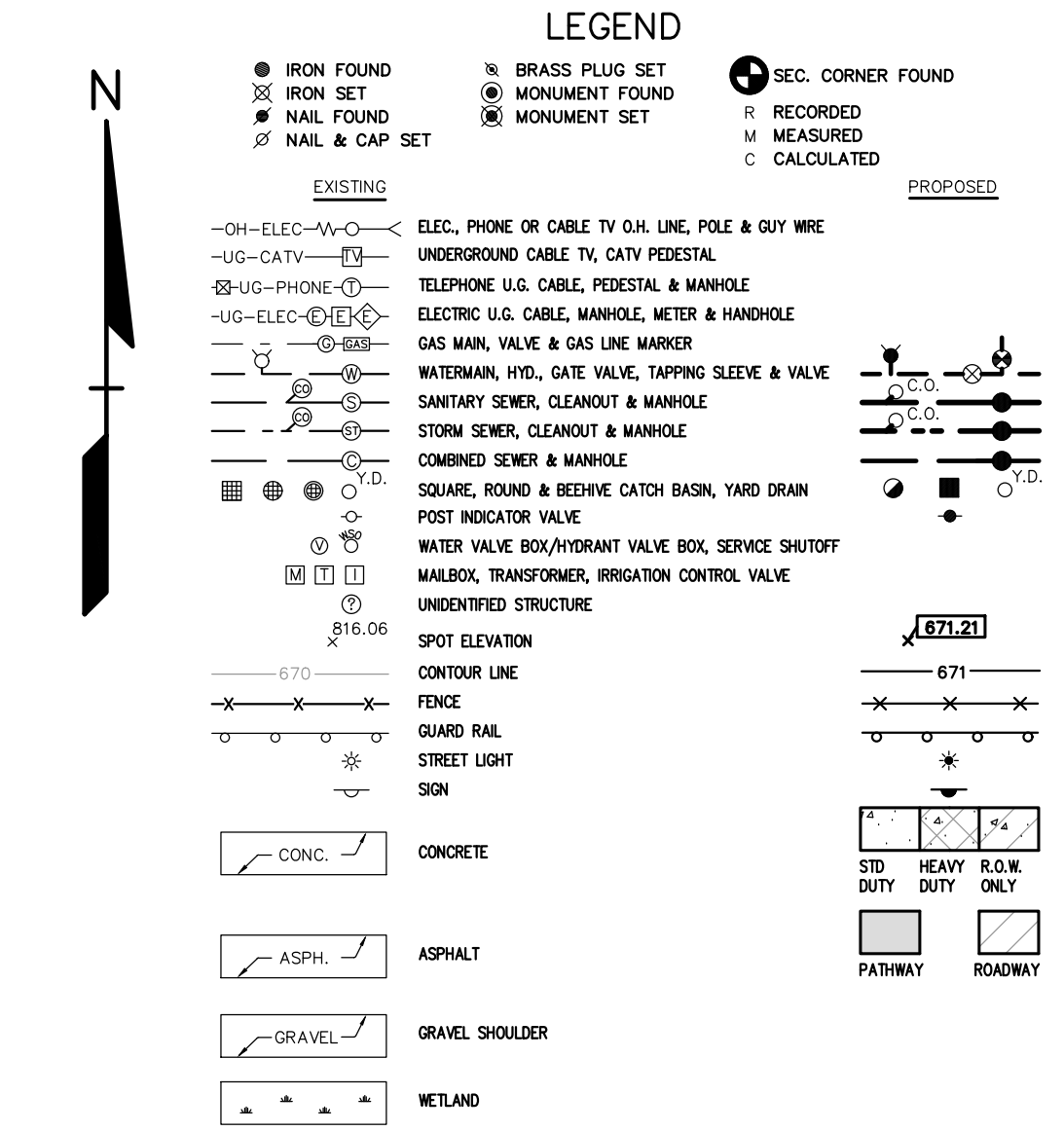
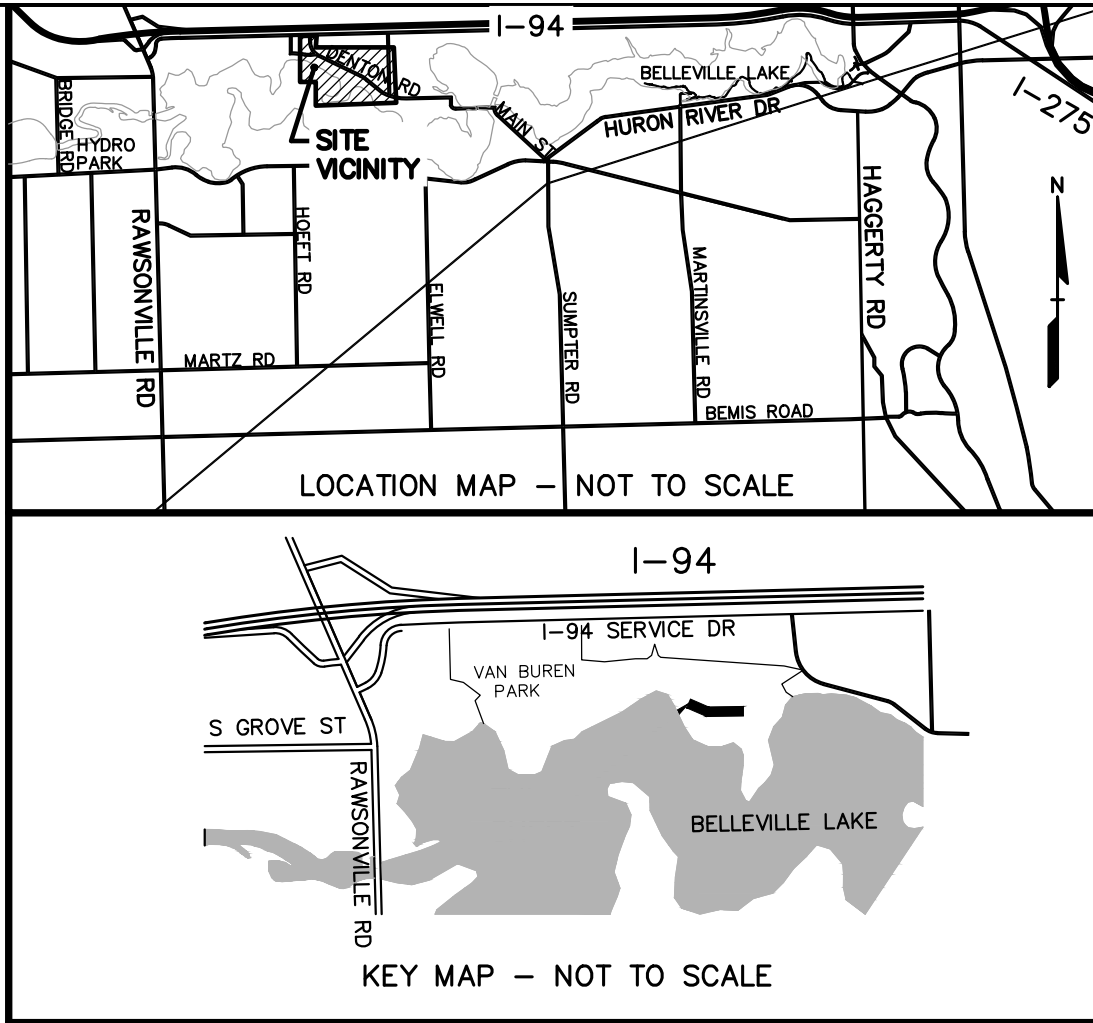
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<p>PEA GROUP</p> <p>t: 844.813.2949 www.peagroup.com</p>		<p>VAN BUREN TOWNSHIP</p> <p>4842 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111</p> <p>LAYOUT AND STRIPING PLAN</p> <p>IRON BELLE TRAIL-SECTION D</p> <p>DES. JMR DN. SUR. JW P.M. US</p> <p>WAYNE COUNTY, MI</p>												
<p>ORIGINAL ISSUE DATE: MARCH 19, 2021</p> <p>PEA JOB NO. 2019-369</p> <p>SCALE: 1"=20'</p> <p>DRAWING NUMBER: C-3.8</p>														



GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.
2. ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
3. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.
4. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM THE WAYNE COUNTY PRIOR TO CONSTRUCTION.
5. ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.
6. REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
7. ALL DISTURBED AREAS SHALL BE SEEDED AND BLANKETED IN ACCORDANCE WITH THESE PLANS. PROVIDE A MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
9. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
10. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
11. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW PROPOSED SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
12. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
13. ANY SUBGRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.



EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

BENCHMARKS

(GPS DERIVED - NAVD 88)

BM #309
1/2" IRON ROD WITH CAP. 10' SOUTH OF
CENTER LINE OF VAN BUREN PARK ROAD
AND 256 NORTHWEST OF NORTHWEST OF
BUILDING CORNER.
ELEV. - 698.59

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	JMR	5-16-23	W.C. REVISIONS
2	JMR	5-16-23	W.C. REVISIONS

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WEST PARK PATH PLAN & PROFILE			
IRON BELLE TRAIL-SECTION D			
DES.	JMR	DN.	JW
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PEA JOB NO. 2019-369

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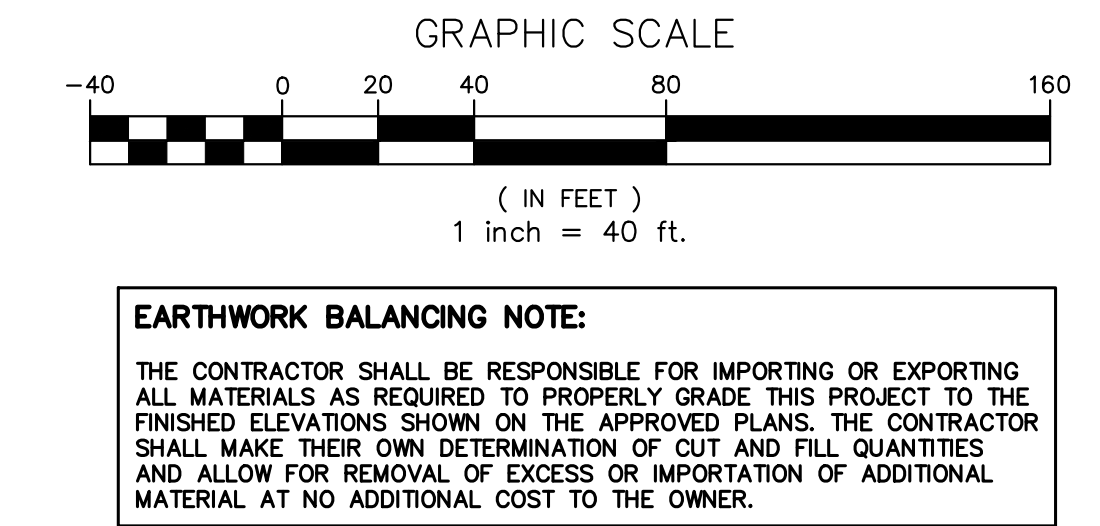
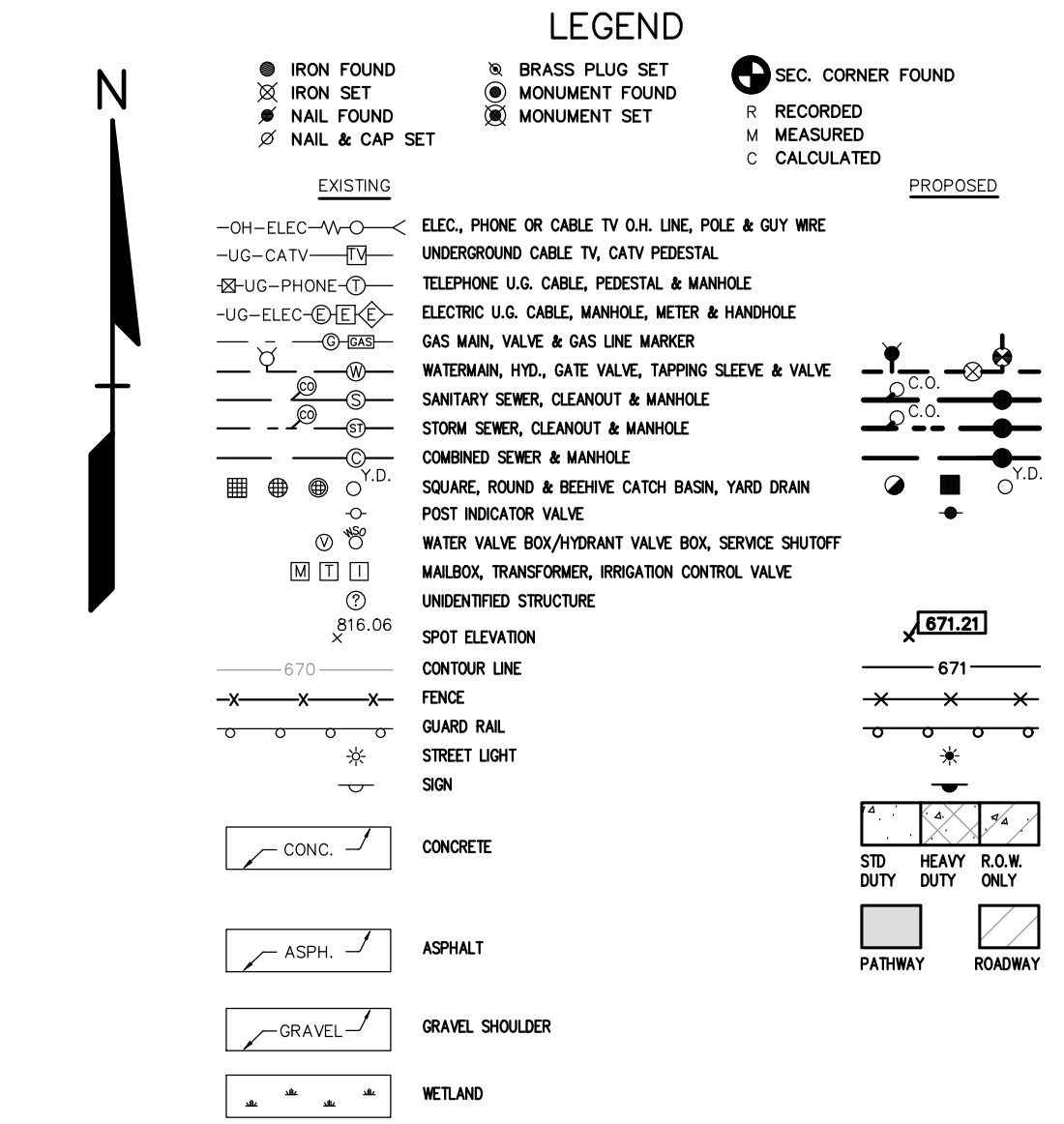
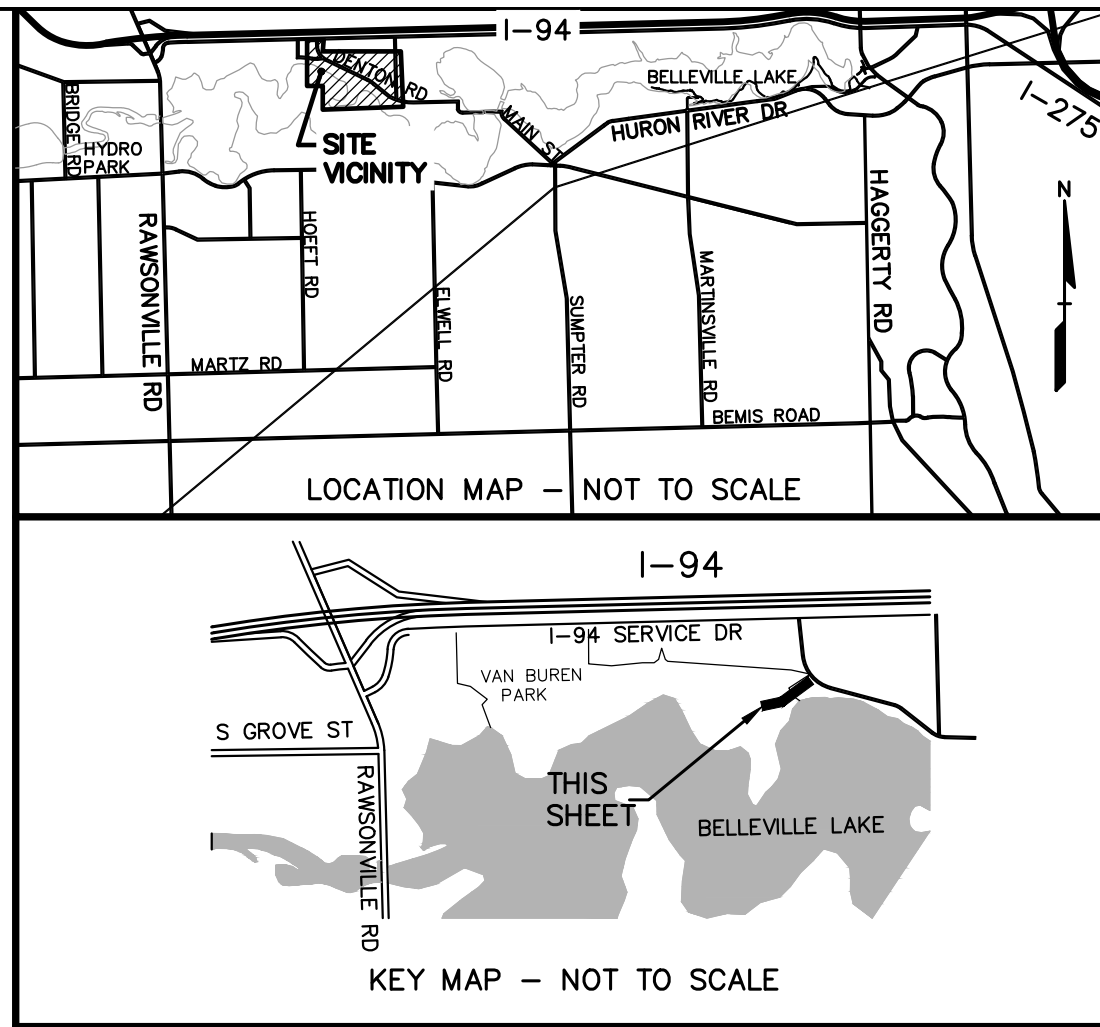
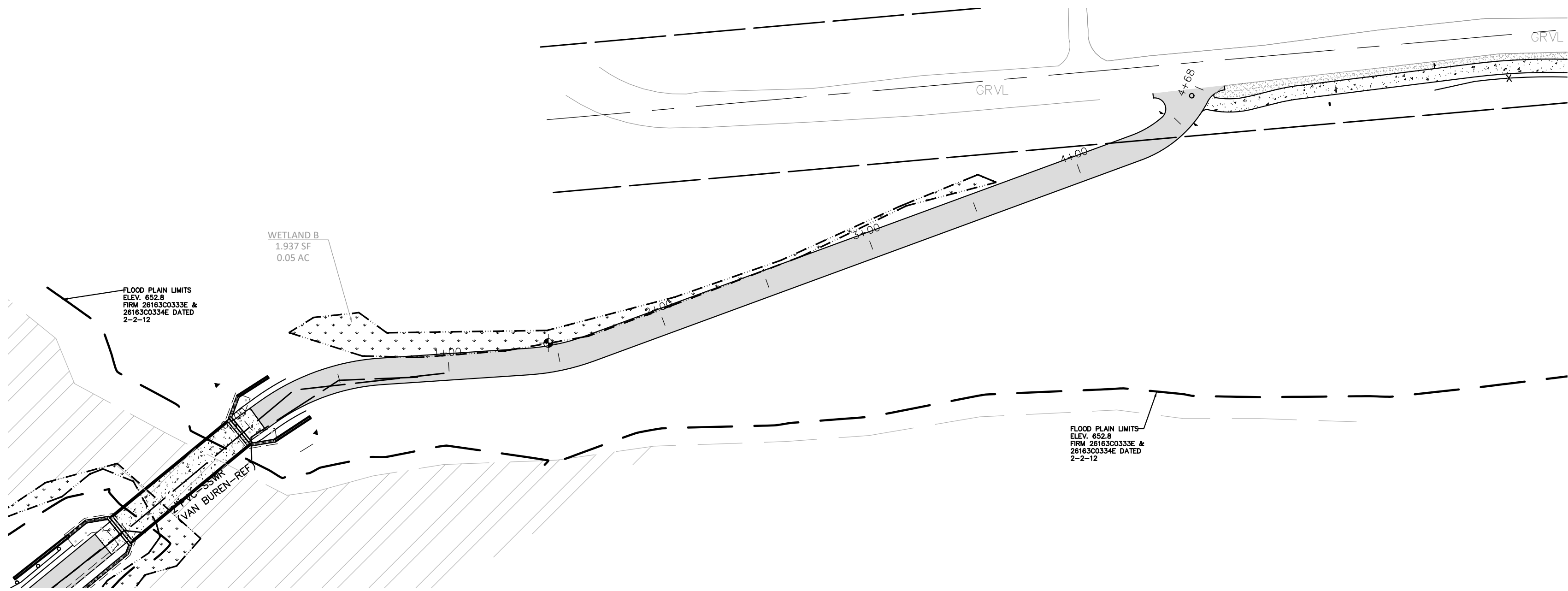
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TRAIL PLAN VIEW

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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLK-19369.DWG



REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	5-16-21	JMR	W/C REVISIONS
2	4-10-21	JMR	W/C REVISIONS

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DES.	JMR	DN.	JW
WAYNE COUNTY, MI			
SUR.			
P.M.			
U.S.			

ORIGINAL ISSUE DATE:
MARCH 19, 2021
PEA JOB NO. 2019-369
SCALE: 1"=20'
DRAWING NUMBER:
C-4.2

TRAIL PLAN VIEW

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SEQUENCE OF CONSTRUCTION:

- START DAY END DAY
- 1 5 INSTALL CRUSHED CONCRETE ACCESS APPROACH AT LOCATIONS PER PLAN.
- 1 5 INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
- 1 120 MAINTAIN A 25' BUFFER OF VEGETATION AROUND PERIMETER OF SITE WHERE POSSIBLE.
- 5 25 REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED RESTORATION. ALL STOCKPILES MUST BE GRADED AND SEEDED.
- 5 25 REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
- 5 25 DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
- 25 45 ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE-INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
- 45 60 INSTALL SITE UTILITIES (DRAIN TILE) AND RETAINING WALLS. INSTALL RIP RAP AT END SECTION.
- 60 90 GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.
- 90 110 INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE. ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
- 25 90 TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.
- 90 110 FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
- 110 120 CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH VEGETATION AS REQUIRED.
- 120 120 REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

- THE CONTRACTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENTATION CONTROL DEVICES ONCE EACH WEEK AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. THE FOLLOWING STEPS SHALL BE IMPLEMENTED IF ANY DAMAGE HAS OCCURRED.
- ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
 - ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY.
 - SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
 - INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
 - A WATER TRUCK SHALL BE AVAILABLE TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.

STREET CLEANING SCHEDULE

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SCRAPE STREETS		X	X	X	X	X	X
SWEEP STREETS				X			

GENERAL SITE CONDITIONS:

- PER THE USGS SOIL SURVEY, THE AREA OF CONSTRUCTION CONSISTS OF BOYER LOAMY SAND, 0-8 PERCENT SLOPES (BbB) AND SPINKS LOAMY SAND, 0-6 PERCENT SLOPES (SpB). SEE THE GEOTECHNICAL INVESTIGATION PERFORMED BY PEA, INC DATED 10-31-2019 FOR FURTHER DETAILED INFORMATION.
1. TOTAL DISTURBED AREA = ±1.9 ACRES
- SOIL EROSION CONTROL NOTES:**
- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF WAYNE COUNTY.
 - DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
 - EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
 - CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED AND A CERTIFICATE OF COMPLETION HAS BEEN ISSUED BY WAYNE COUNTY FOR THE SESC PERMIT.
 - STAGING THE WORK SHALL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
 - SOIL EROSION CONTROL PRACTICES SHALL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.

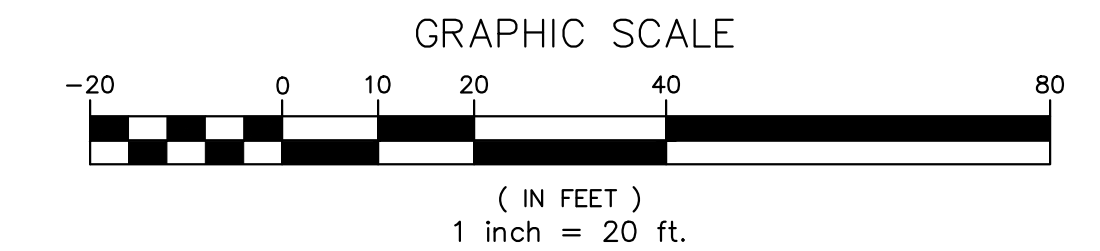
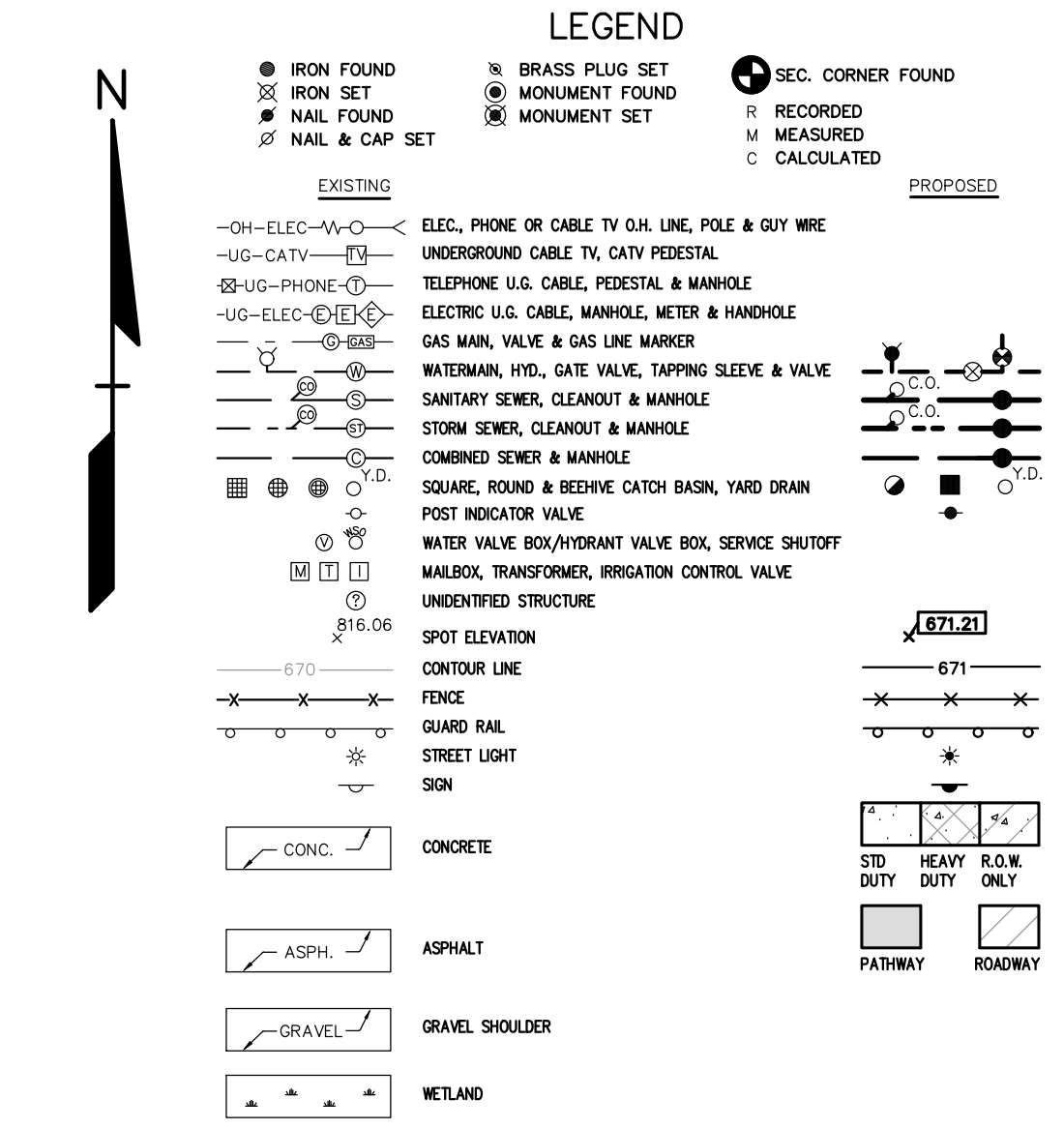
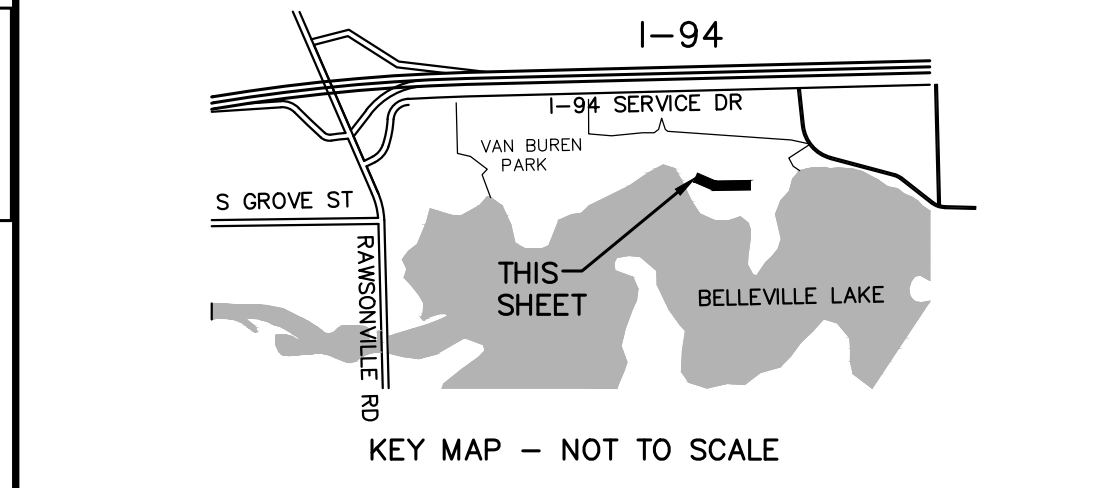
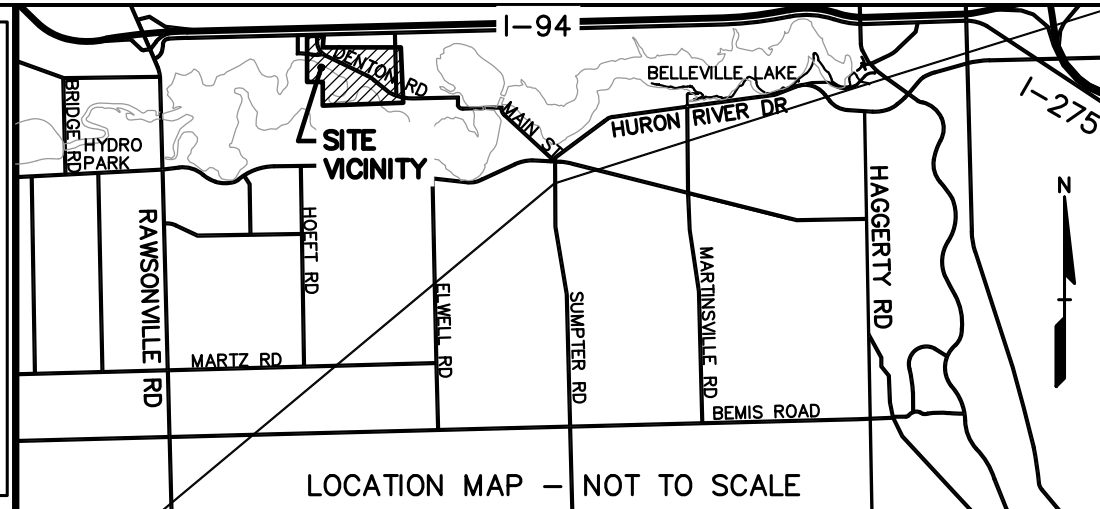
FINAL INSPECTION AND CERTIFICATE OF COMPLETION REQUIREMENTS:

- ALL ITEMS ON APPROVED SESC PLAN AND PERMIT MUST BE COMPLETED.
- ALL DISTURBED EARTH MUST BE PERMANENTLY STABILIZED WITH VEGETATION OR HARD SURFACE.
- ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE ENTIRE STORM SEWER SYSTEM.
- ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE SEDIMENTATION BASIN.
- ALL TEMPORARY SESC DEVICES MAY BE REMOVED AFTER CERTIFICATE OF COMPLETION.

EROSION CONTROL QUANTITIES:

AREA OF DISTURBANCE	1.9	AC
SILT FENCE	5,350	LF
TEMP. STONE ACCESS DRIVE	1	S.Y.
EROSION CONTROL BLANKETS	4700	EA.
RESTORATION	3	EA.
SILT SAKS		

NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF PEA, INC. FOR VERIFICATION, PRIOR TO BIDDING.



EARTHWORK BALANCING NOTE:

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BENCHMARKS
(GPS DERIVED - NAVD 88)

BM #309
1/2" IRON ROD WITH CAP. 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
ELEV. - 698.59

SYMBOLS: EROSION CONTROL:

- SILT FENCE
- LOW POINT INLET FILTER
- RYCB INLET FILTER
- EROSION CONTROL BLANKET
- TEMPORARY SEED AND MULCH
- LIMITS OF DISTURBANCE
- TEMPORARY CONSTRUCTION ACCESS DRIVE (REFER TO DETAIL ON SHEET C-5.2)

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IRON BELLE TRAIL-SECTION D

DES. JMR DN. SUR. JW P.M. US

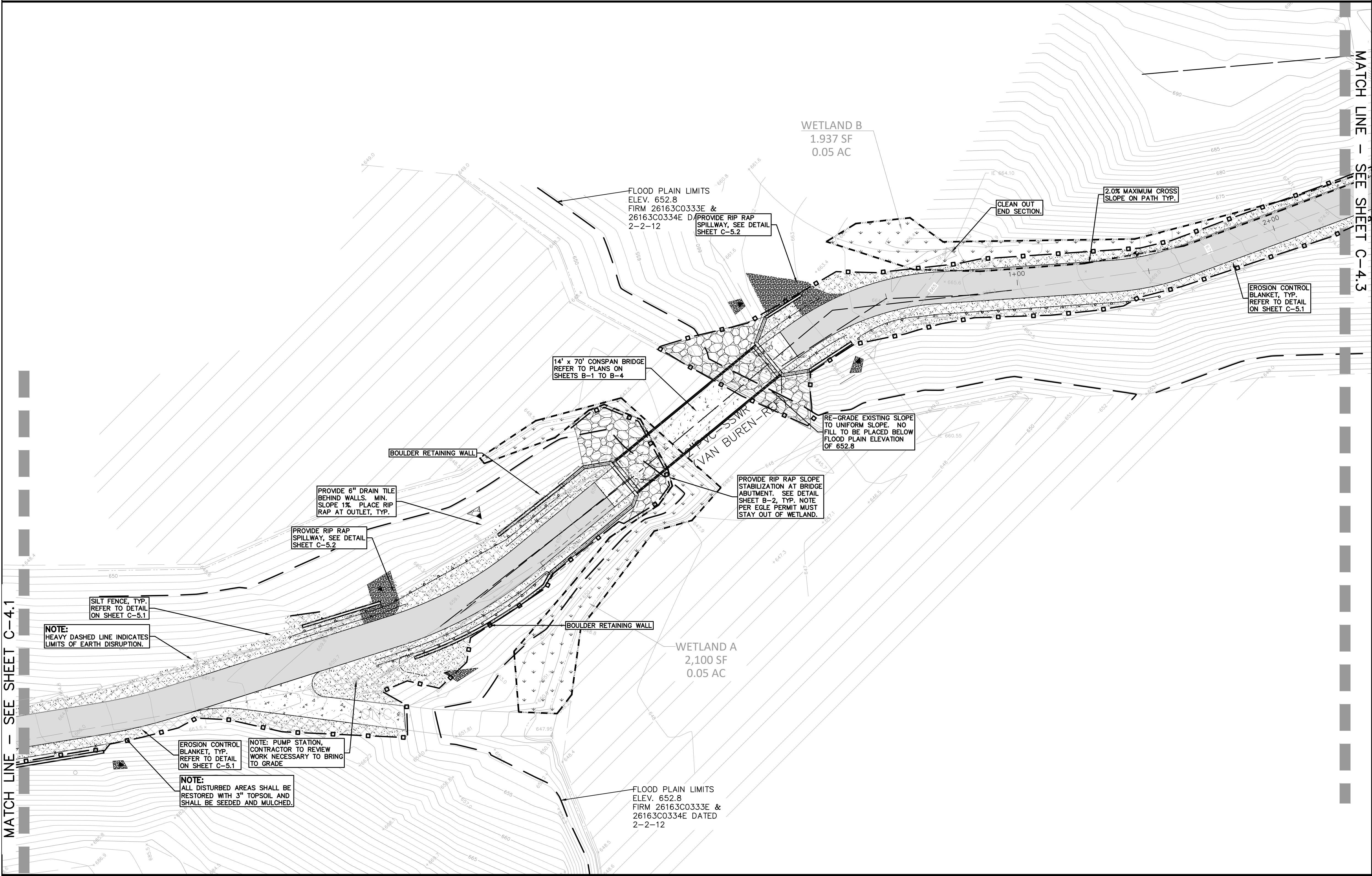
WAYNE COUNTY, MI

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

SCALE: 1"=20'

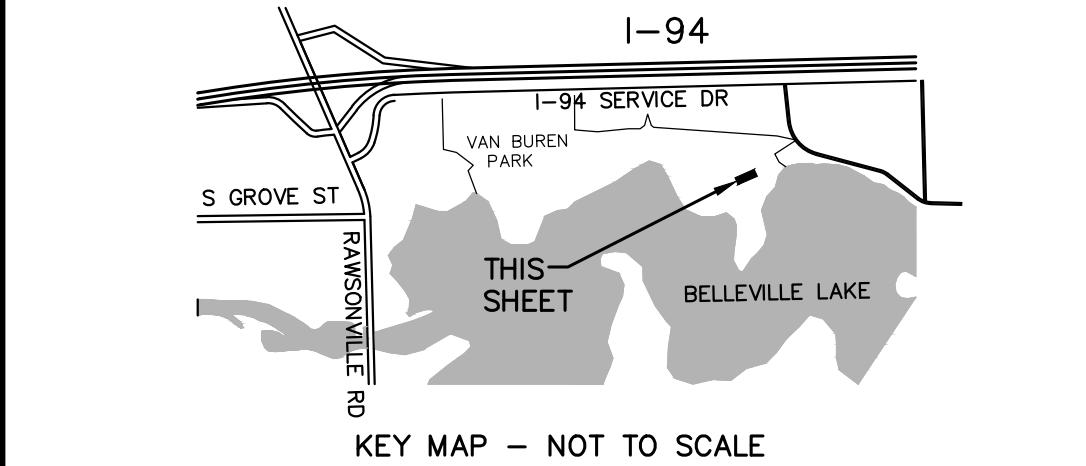
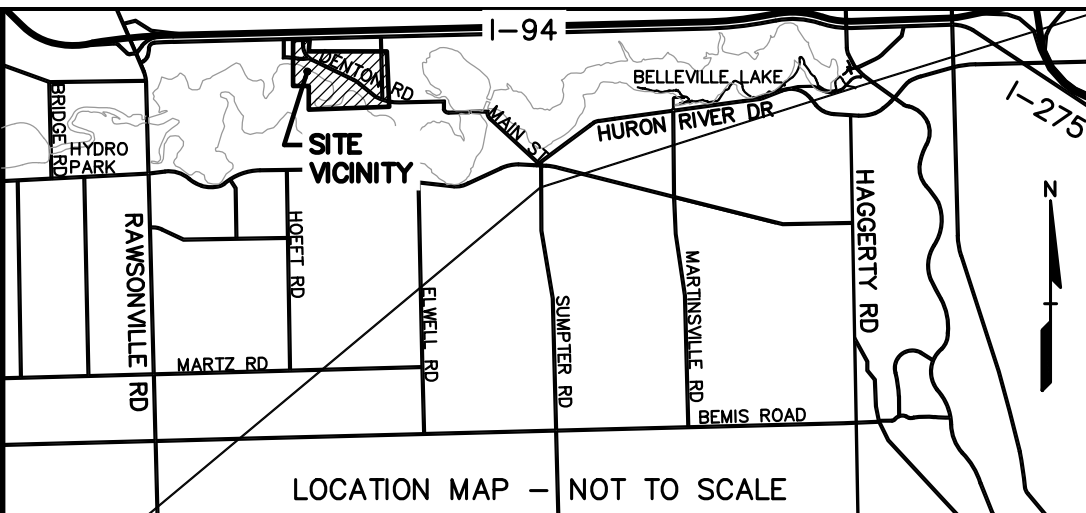
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C-4.3



MATCH LINE - SEE SHEET C-4.1

MATCH LINE - SEE SHEET C-4.3

TRAIL PLAN VIEW



LEGEND

● IRON FOUND	⊗ BRASS PLUG SET	⊙ SEC. CORNER FOUND
⊗ IRON SET	⊗ MONUMENT FOUND	⊙ RECORDED
⊗ NAIL FOUND	⊗ MONUMENT SET	⊙ MEASURED
⊗ NAIL & CAP SET		⊙ CALCULATED

EXISTING

- OH-ELEC—V—O— ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UG-CATV—U— UNDERGROUND CABLE TV, CATV PEDESTAL
- UG-PHONE—U— TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- UG-ELEC—U— ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAN. VALVE & GAS LINE MARKER
- WATERMAN, IND., GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SENER, CLEANOUT & MANHOLE
- STORM SENER, CLEANOUT & MANHOLE
- COMBINED SENER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX/IRRIGANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN

PROPOSED

- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL SHOULDER
- WETLAND
- STD DUTY
- HEAVY DUTY
- R.O.W. ONLY
- PATHWAY
- ROADWAY

GRAPHIC SCALE

—20 0 10 20 40 60 80—

(IN FEET)

1 inch = 20 ft.

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SYMBOLS: EROSION CONTROL:

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REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	JMR	5-16-23	INITIAL REVISIONS
2	JMR	5-16-23	W/C REVISIONS

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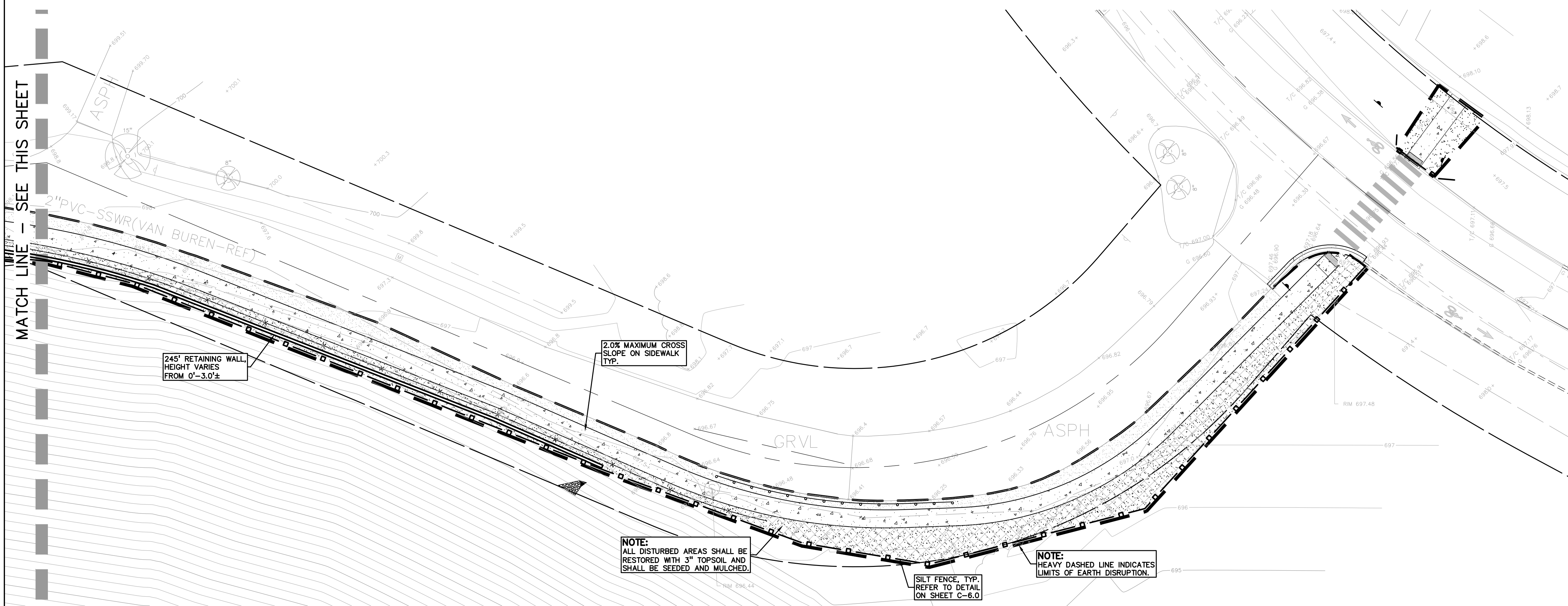
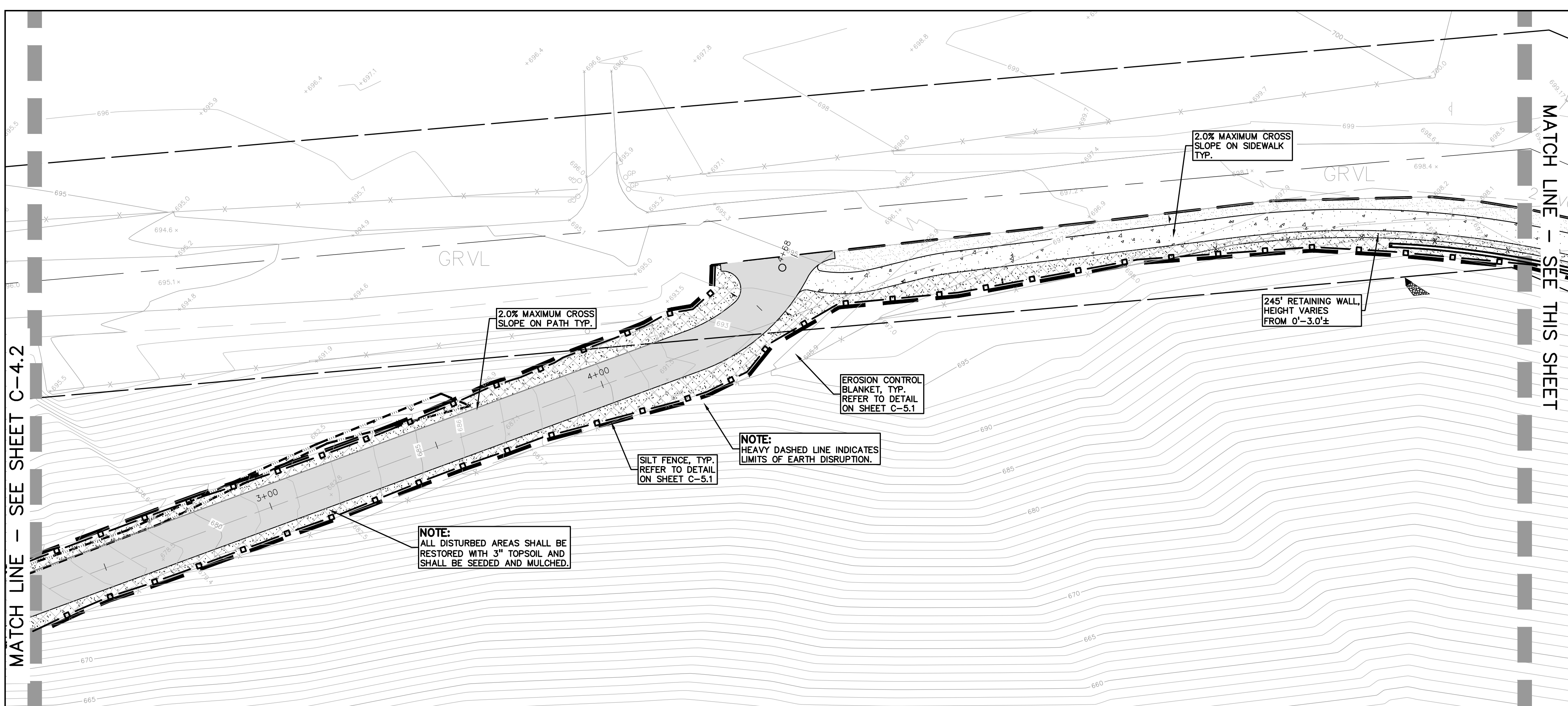
DES.	JMR	DN.	JW	SUR.	JW	P.M.	JS
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ORIGINAL ISSUE DATE:
MARCH 19, 2021

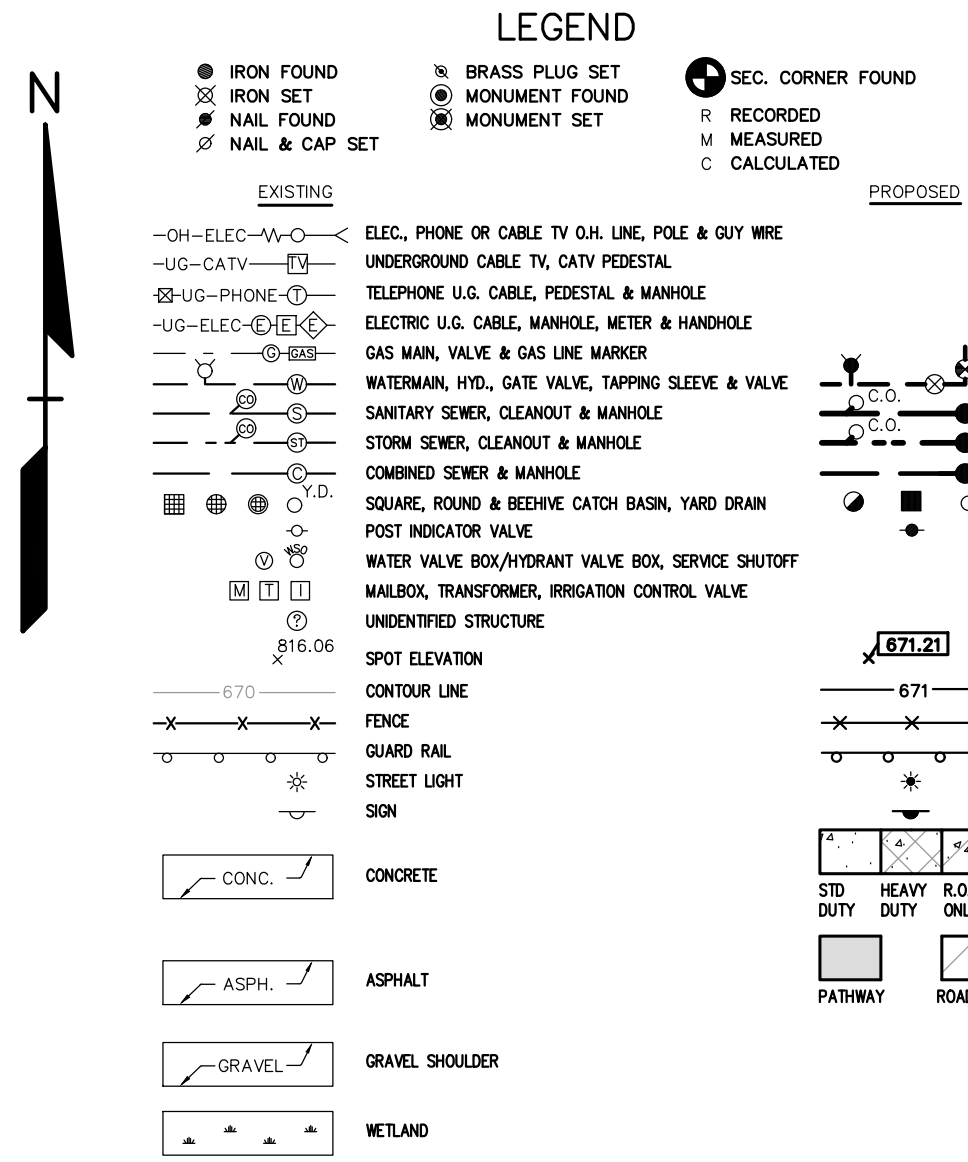
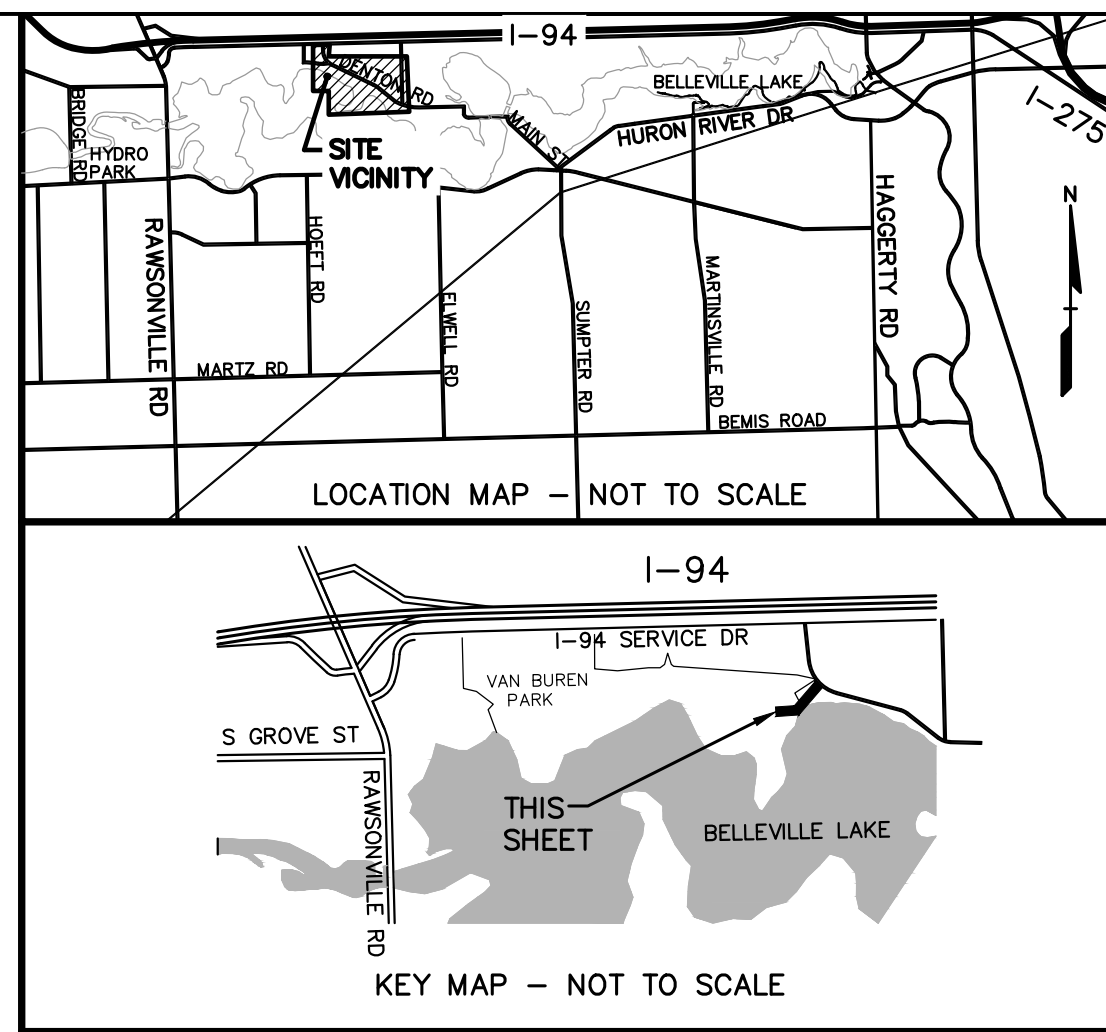
PEA JOB NO. 2019-369

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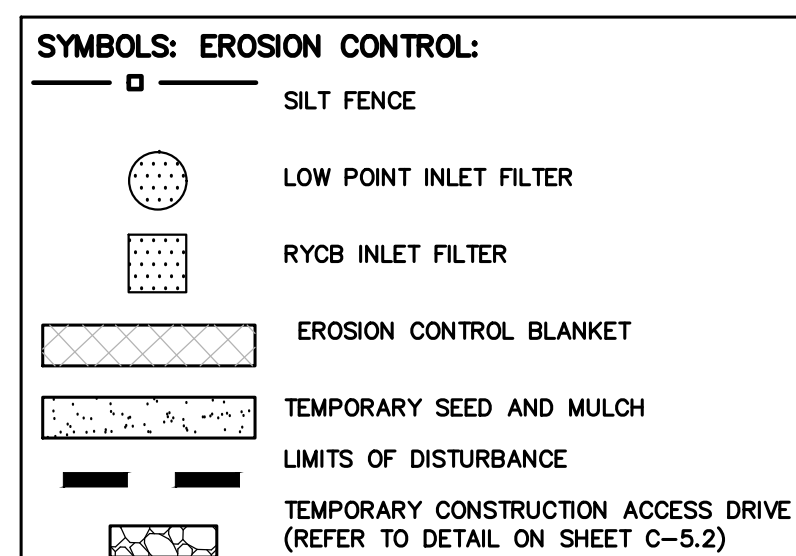
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TRAIL PLAN VIEW



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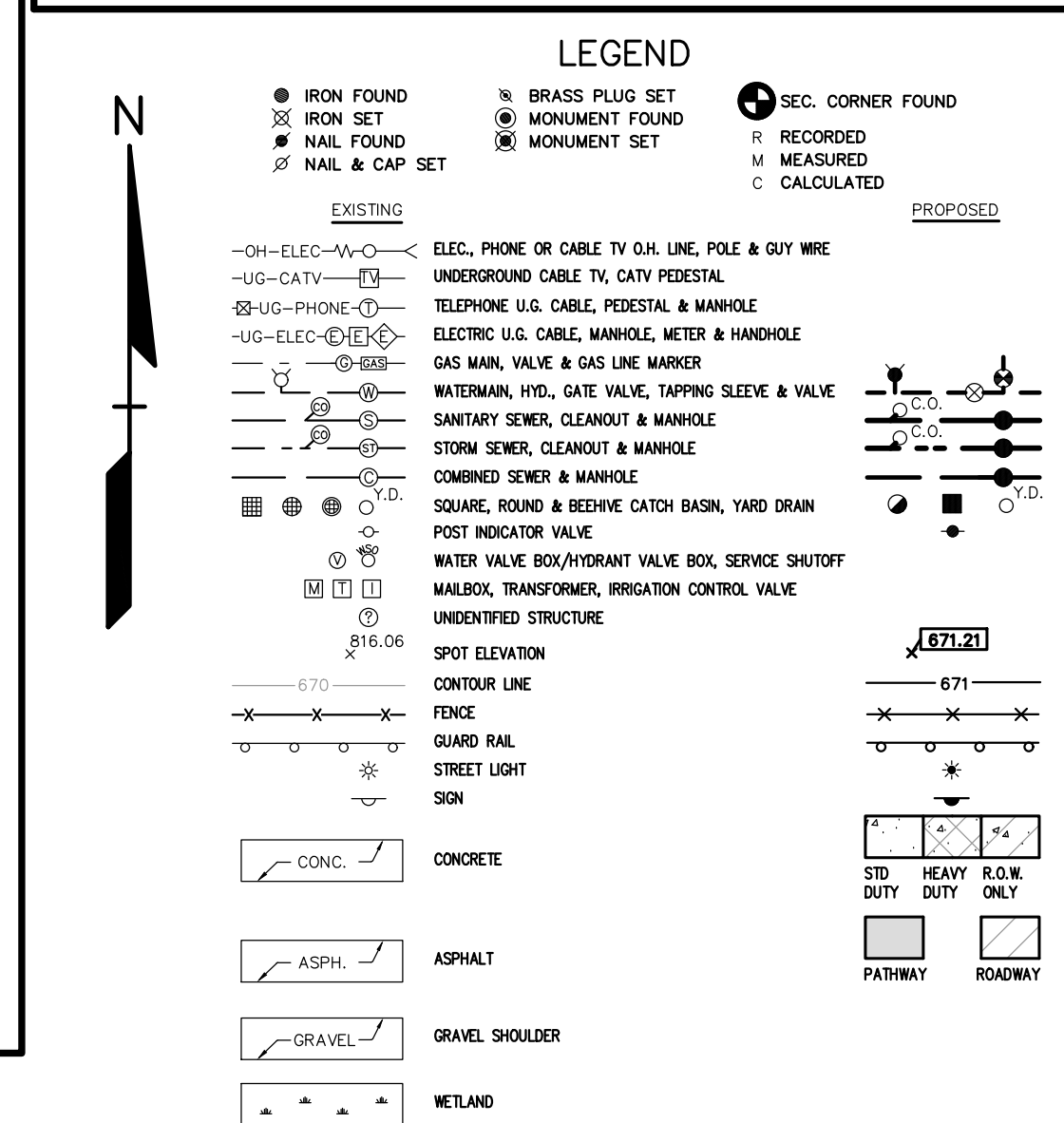
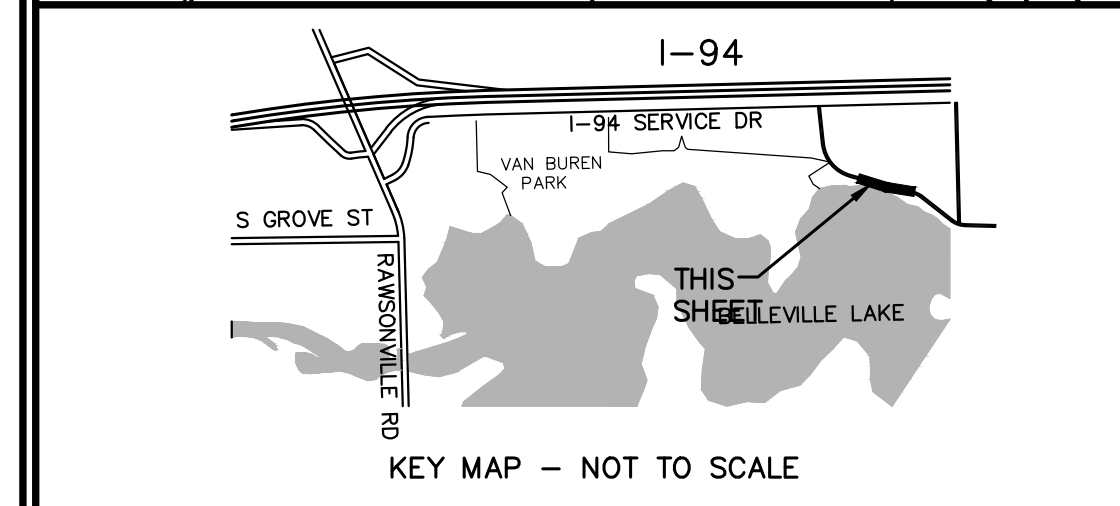
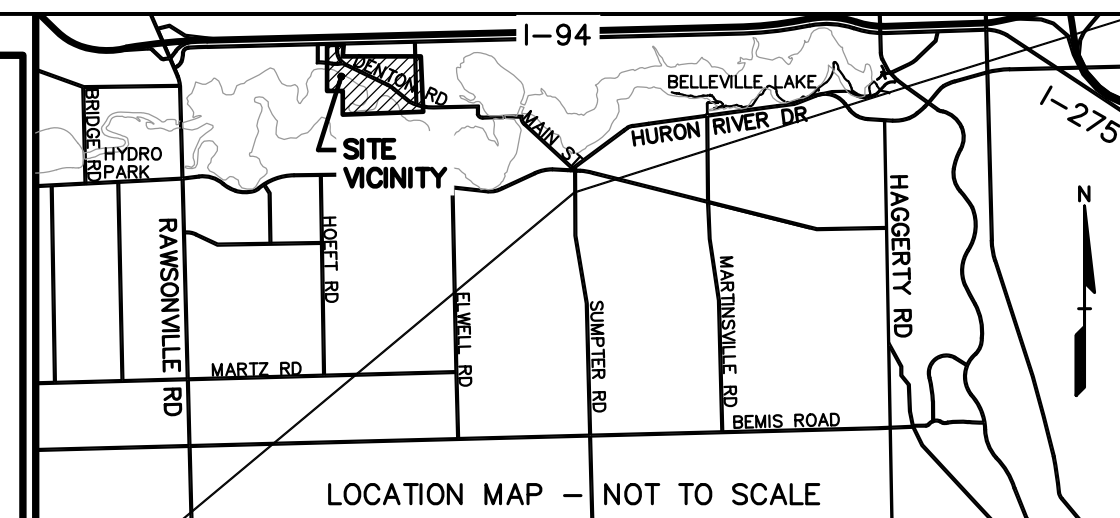
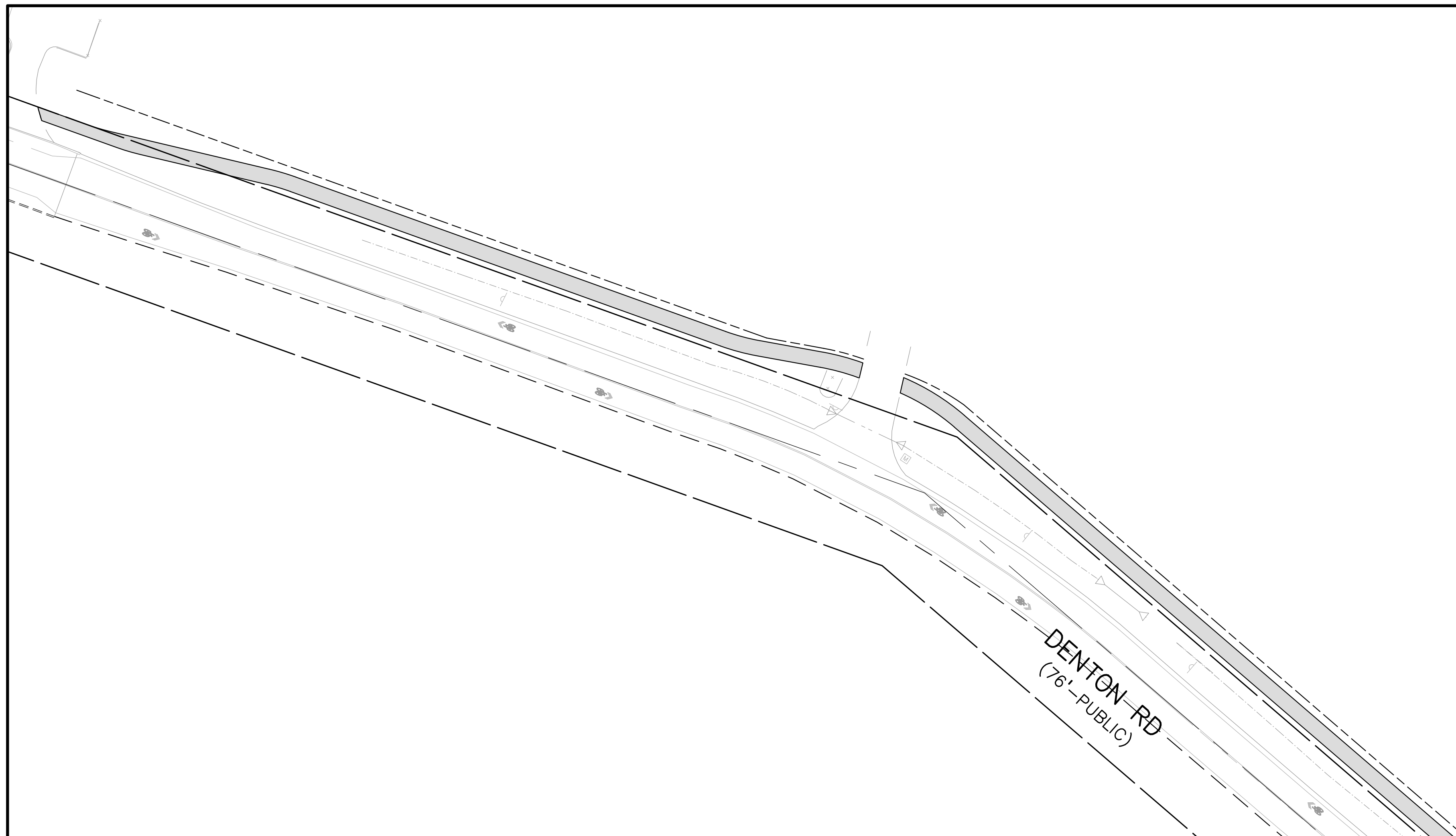
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DENTON ROAD PLAN AND PROFILE IRON BELLE TRAIL-SECTION D			
DES.	JMR	DN.	JW
SUR.	JW	P.M.	JS
ORIGINAL ISSUE DATE: MARCH 19, 2021			
PEA JOB NO. 2019-369			
SCALE: 1" = 20'			
DRAWING NUMBER: C-4.5			



2	BY JMR	MC REVISIONS	5/6/54
1.	BY JMR	MC REVISIONS	4/16/54
REVISIONS			

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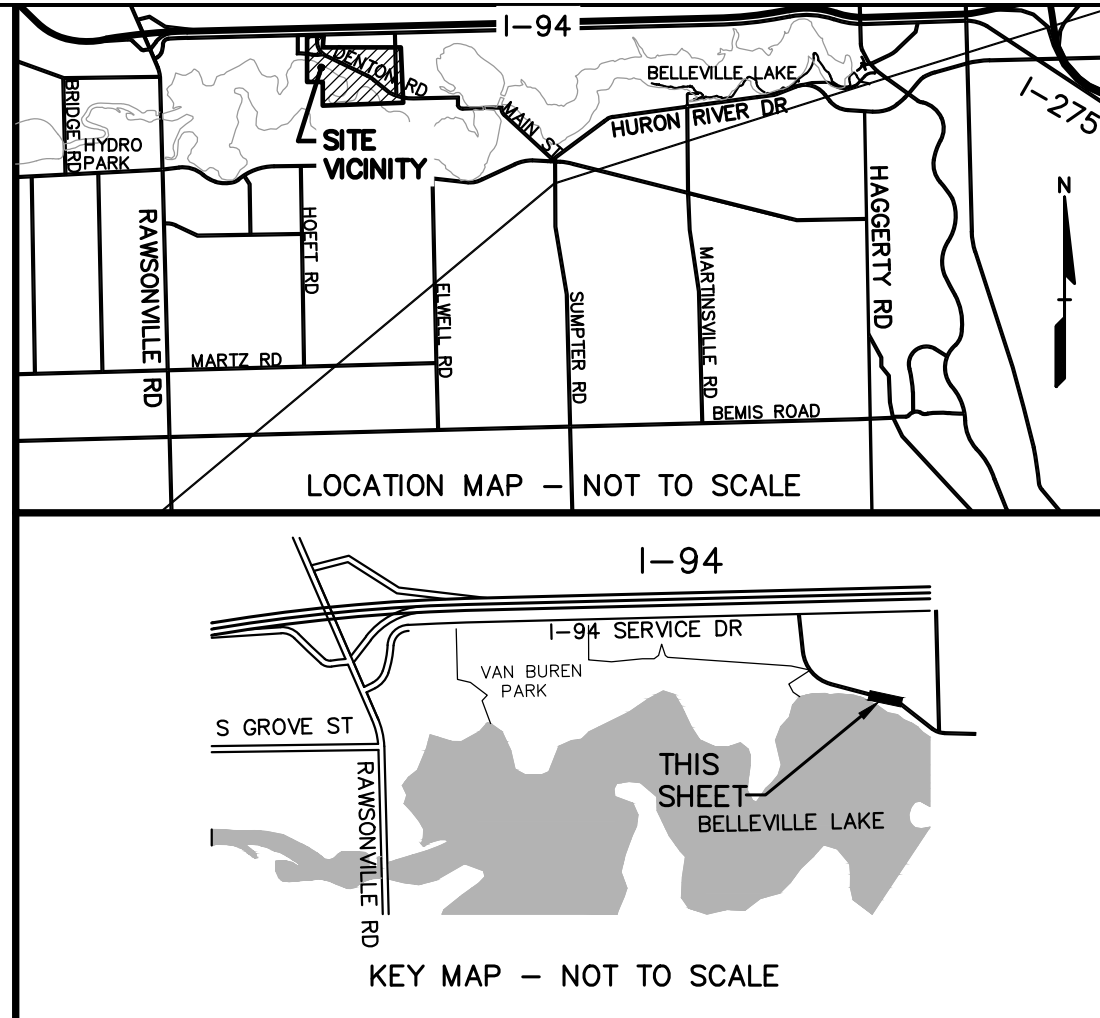
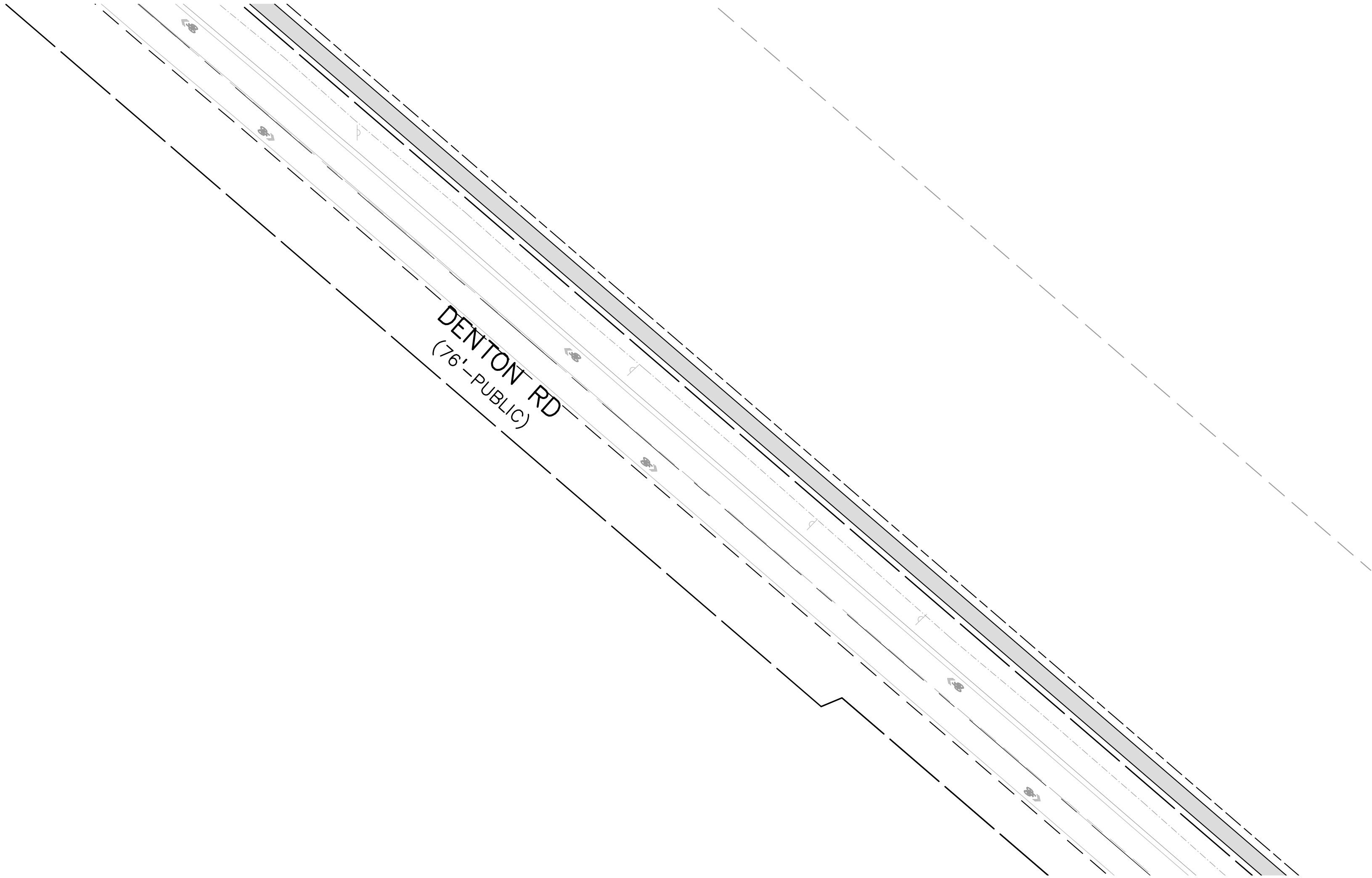
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NOT FOR CONSTRUCTION

XREF: S:\PROJECTS\2019\2019-369 VAN BUREN IBT\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN IBT\DWG\19369-TPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN IBT\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBI K-19369.DWG



LEGEND

EXISTING

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED

PROPOSED

- OH-ELEC
- UG-CATV
- UG-PHONE
- UG-ELEC
- WATERMAN, HD, GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SENER, CLEANOUT & MANHOLE
- STORM SENER, CLEANOUT & MANHOLE
- COMBINED SENER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX/IRRIANT VALVE BOX, SERVICE SHUTOFF
- MAILBOX, TRANSFORMER, IRRIGATION CONTROL, VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SD
- CONC.
- ASPH.
- GRAVEL
- WETLAND

GRAPHIC SCALE

(IN FEET)

1 inch = 40 ft.

EARTHWORK BALANCING NOTE:

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BENCHMARKS
(GPS DERIVED - NAVD 88)

BM #309
1/2" IRON ROD WITH CAP, 10' SOUTH OF
CENTER LINE OF VAN BUREN PARK ROAD
AND 256 NORTHWEST OF NORTHWEST OF
BUILDING CORNER.
ELEV. - 698.59

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	JMR	5-16-21	ISSUED FOR PERMITS
2	JMR	5-16-21	NO REVISIONS

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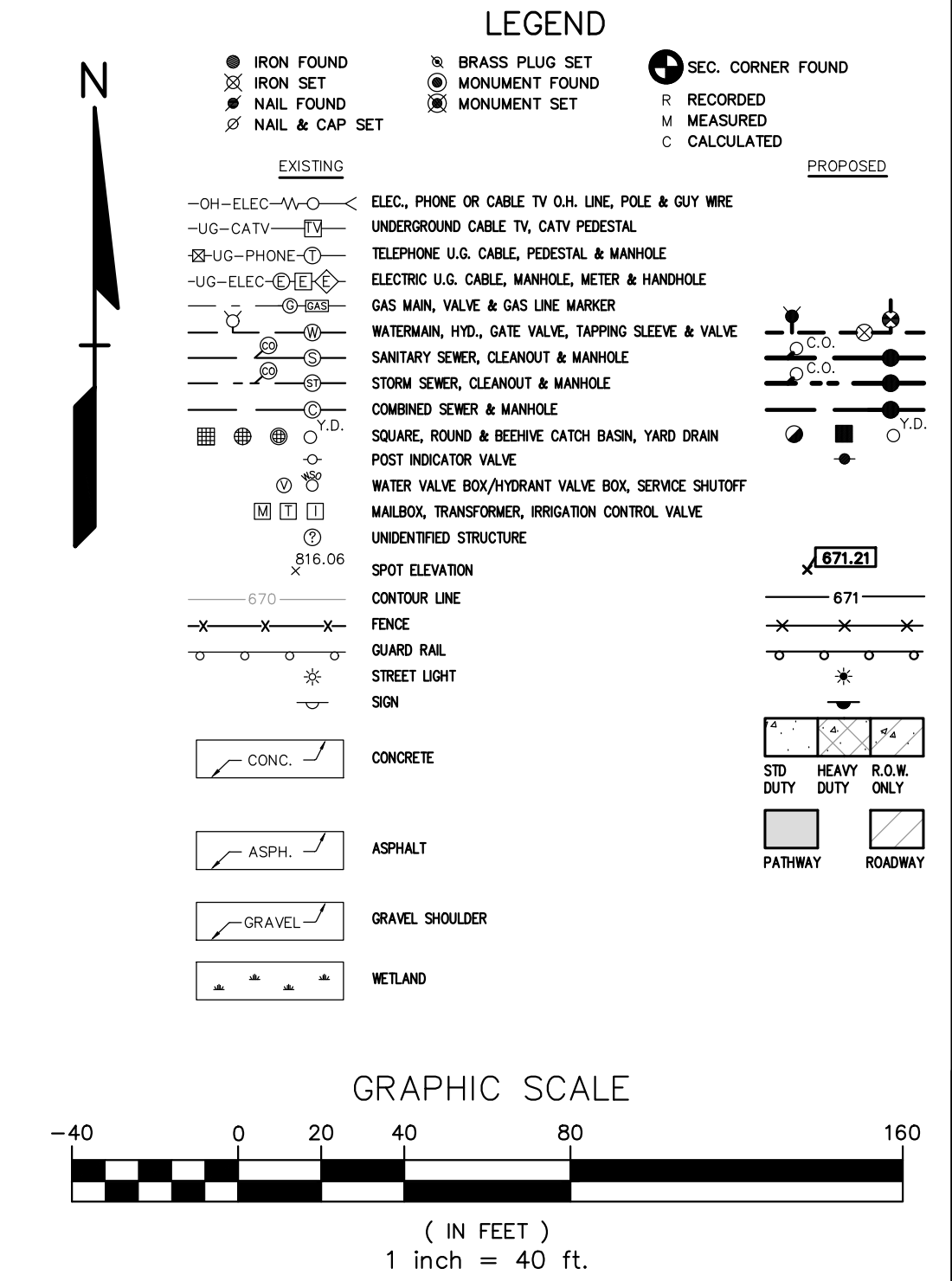
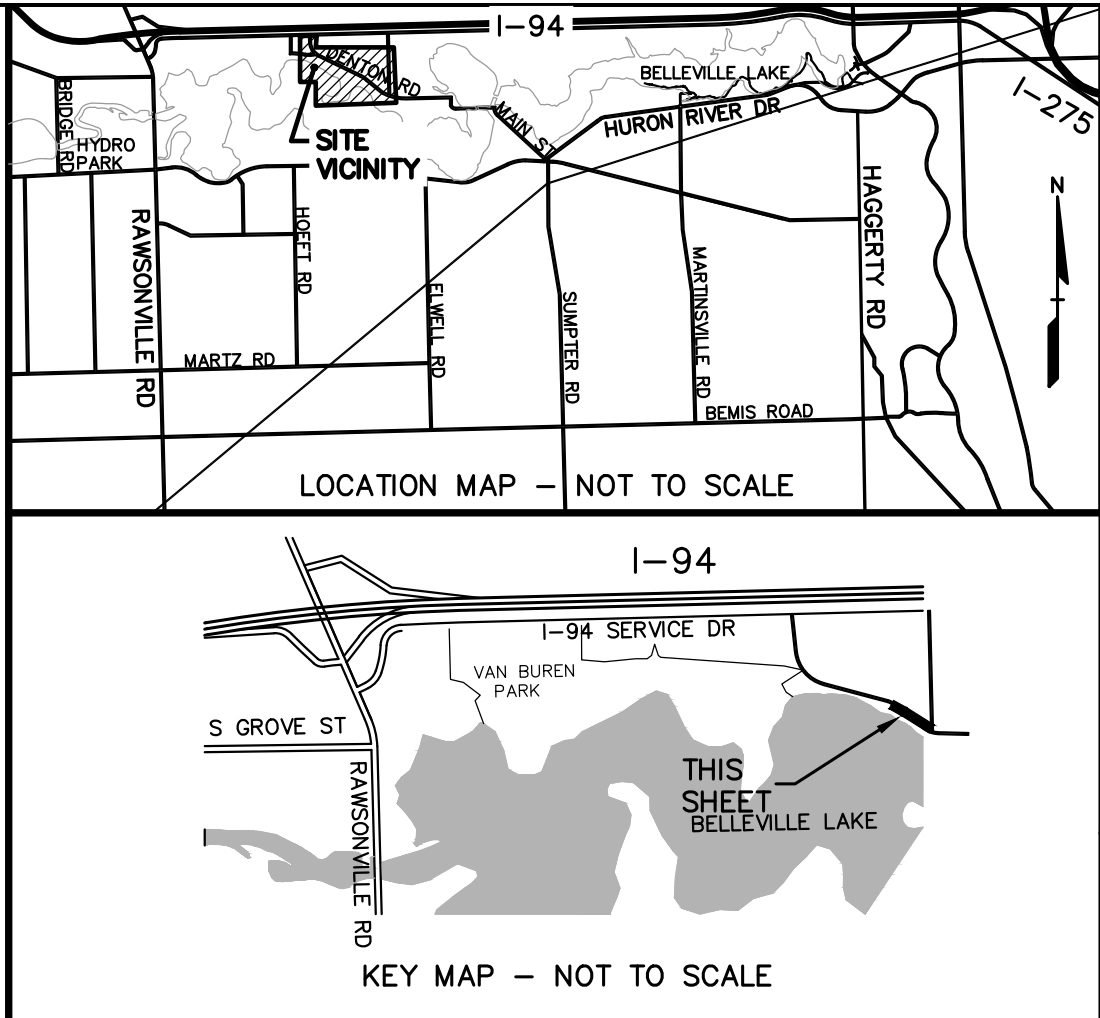
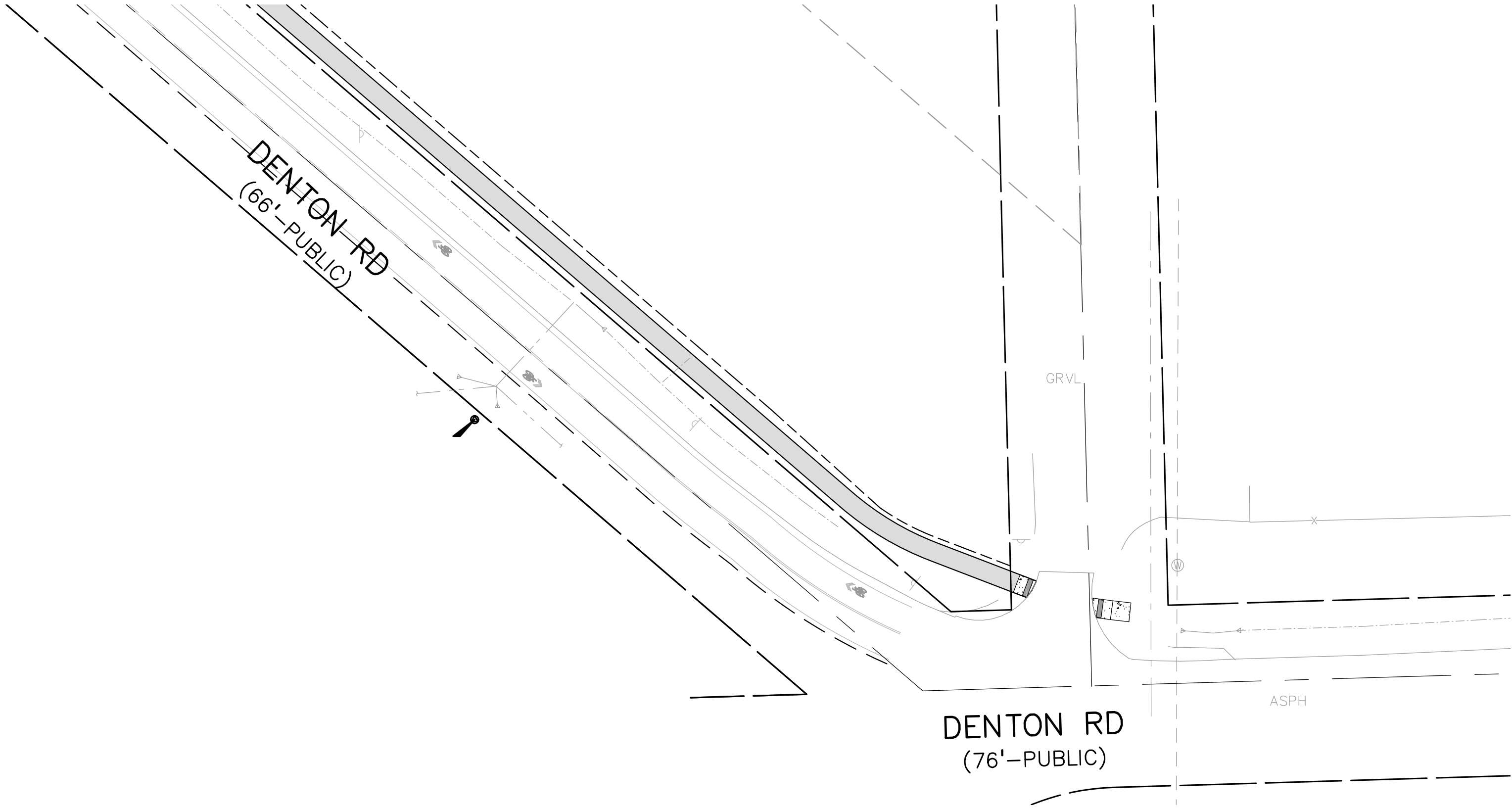
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DENTON ROAD PLAN AND PROFILE						
IRON BELLE TRAIL-SECTION D						
WAYNE COUNTY, MI						
DES.	JMR	DN.	SUR.	JW	P.M.	JS
3. PROJECTED 2010 VSP=369 VAN BUREN TOWNSHIP PLANS 2010-40 AT PARTIAL-SECTION (D.C.=4.0) GRADE=1300.00						



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BENCHMARKS
(GPS DERIVED - NAVD 88)

BM #309
1/2" IRON ROD WITH CAP, 10' SOUTH OF CENTER LINE OF VAN BUREN PARK ROAD AND 256 NORTHWEST OF NORTHWEST OF BUILDING CORNER.
ELEV. - 698.59

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	5-16-23	JMR	W/C REVISIONS
2	4-10-23	JMR	W/C REVISIONS

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IRON BELLE TRAIL-SECTION D			
DES.	JMR	DN.	SUR.
			JW
			P.M.
			US

ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

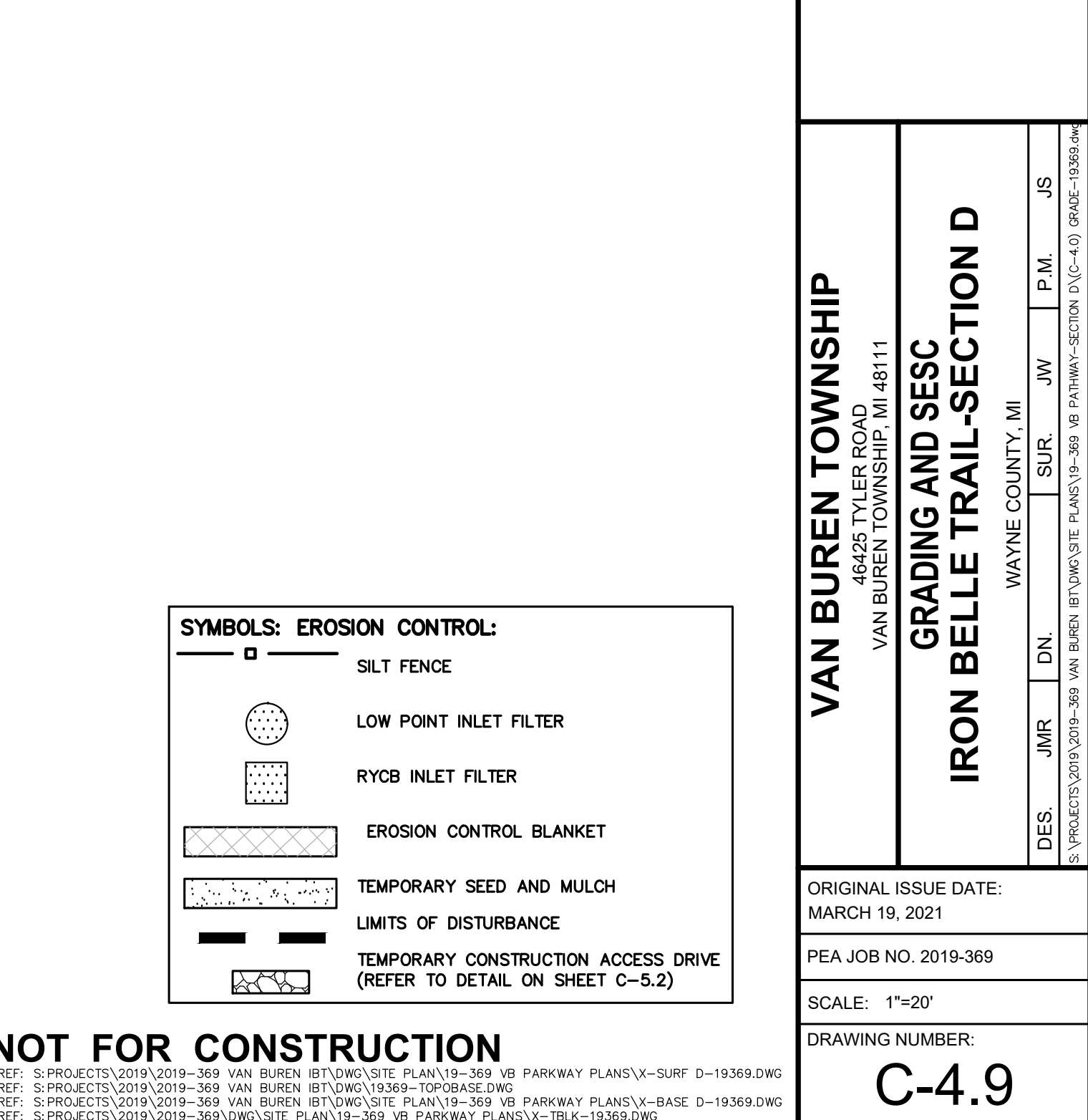
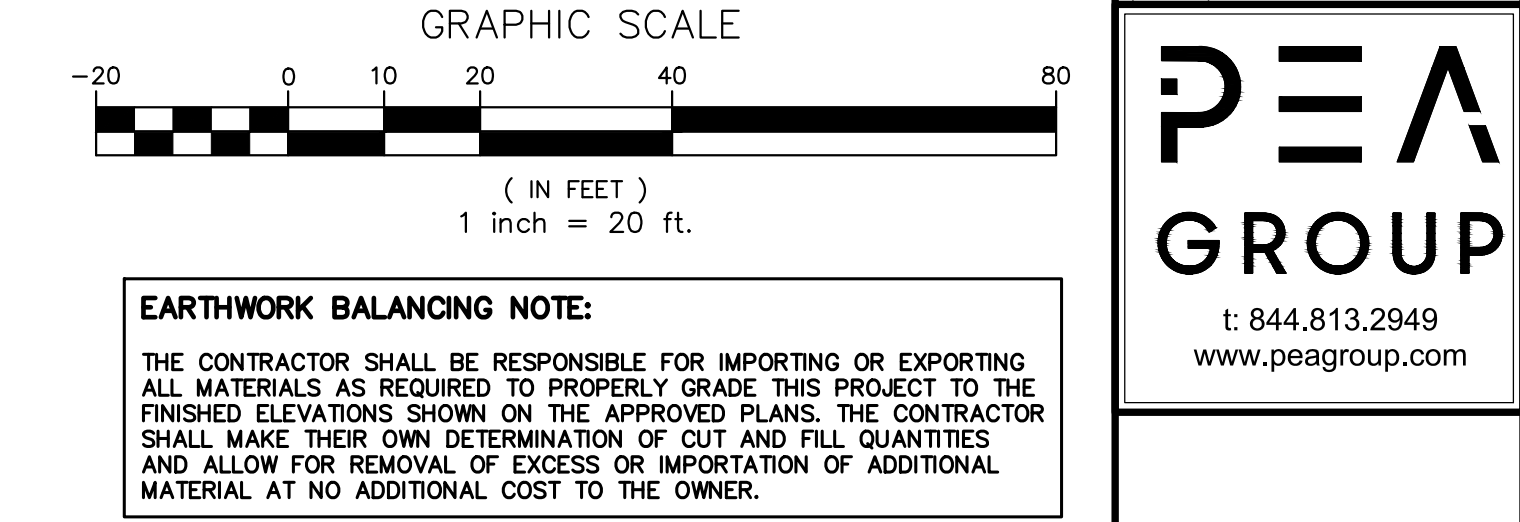
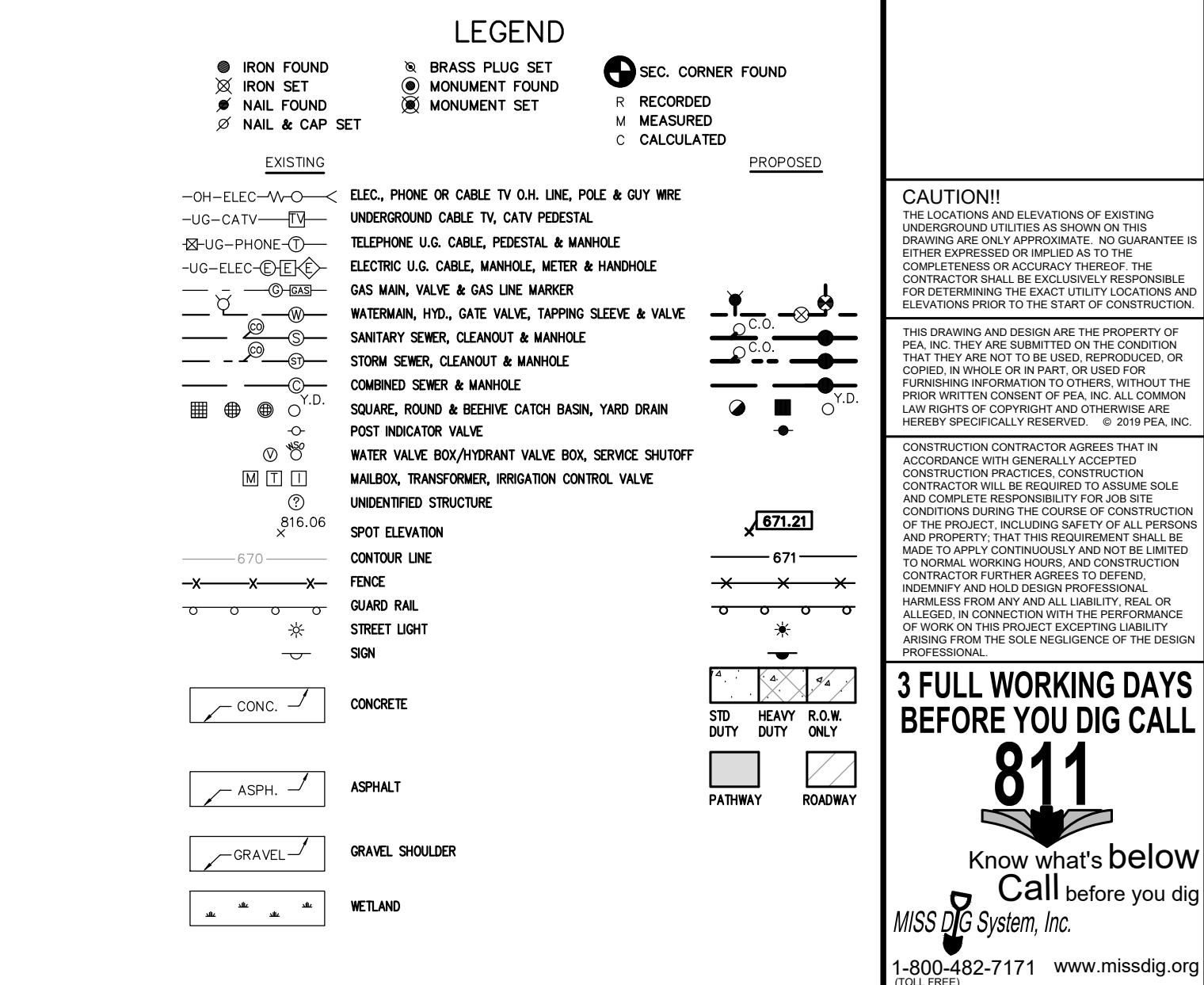
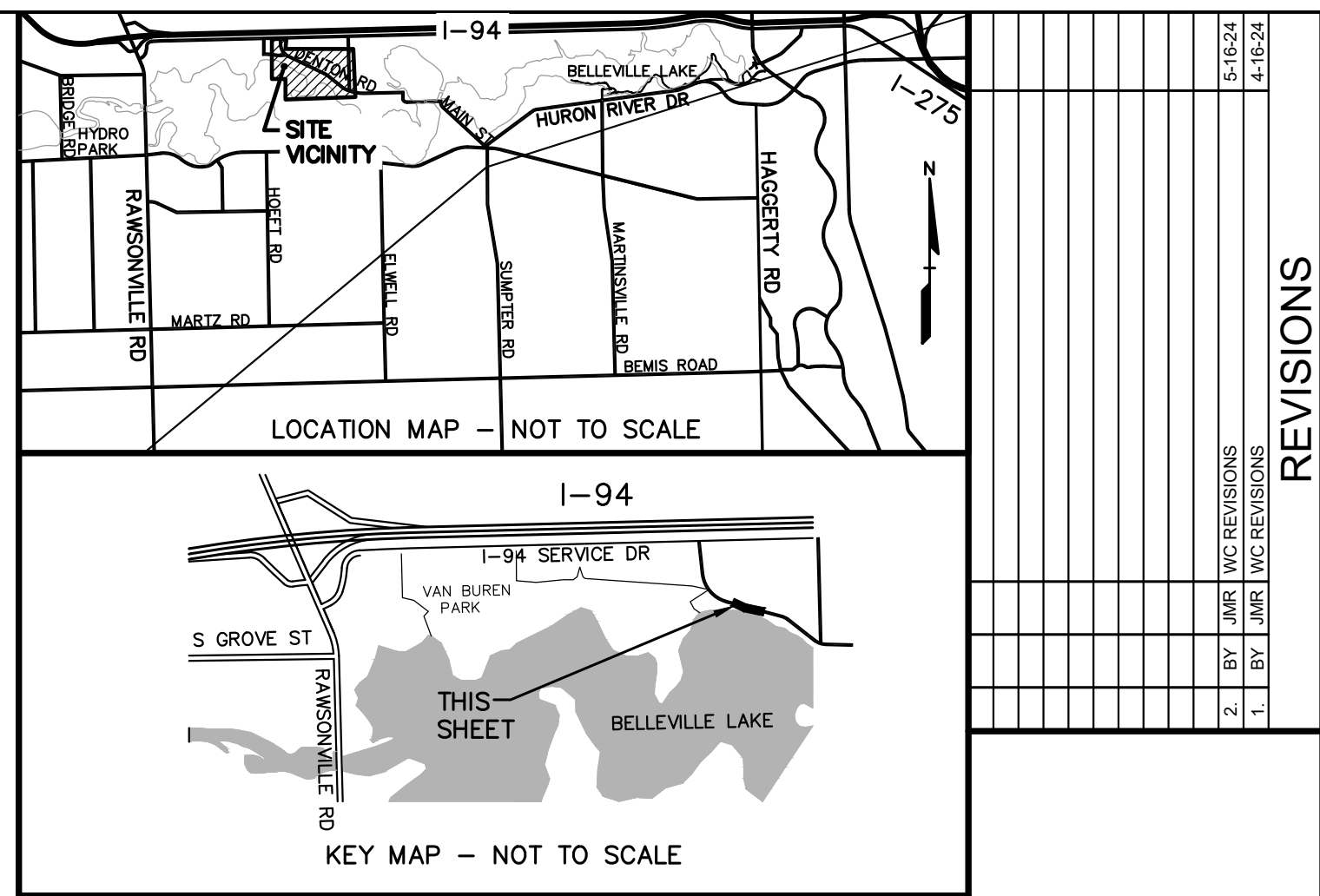
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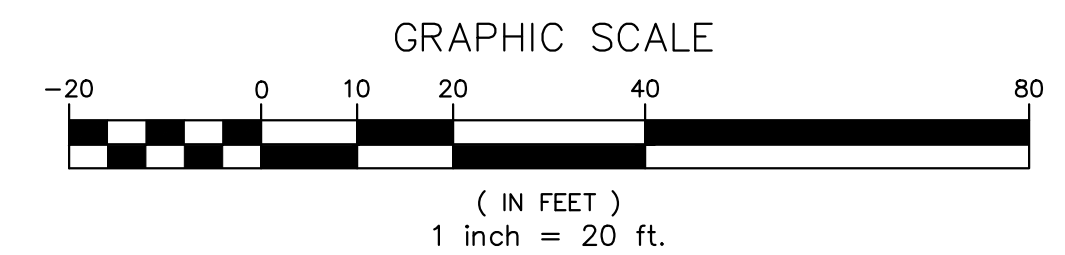
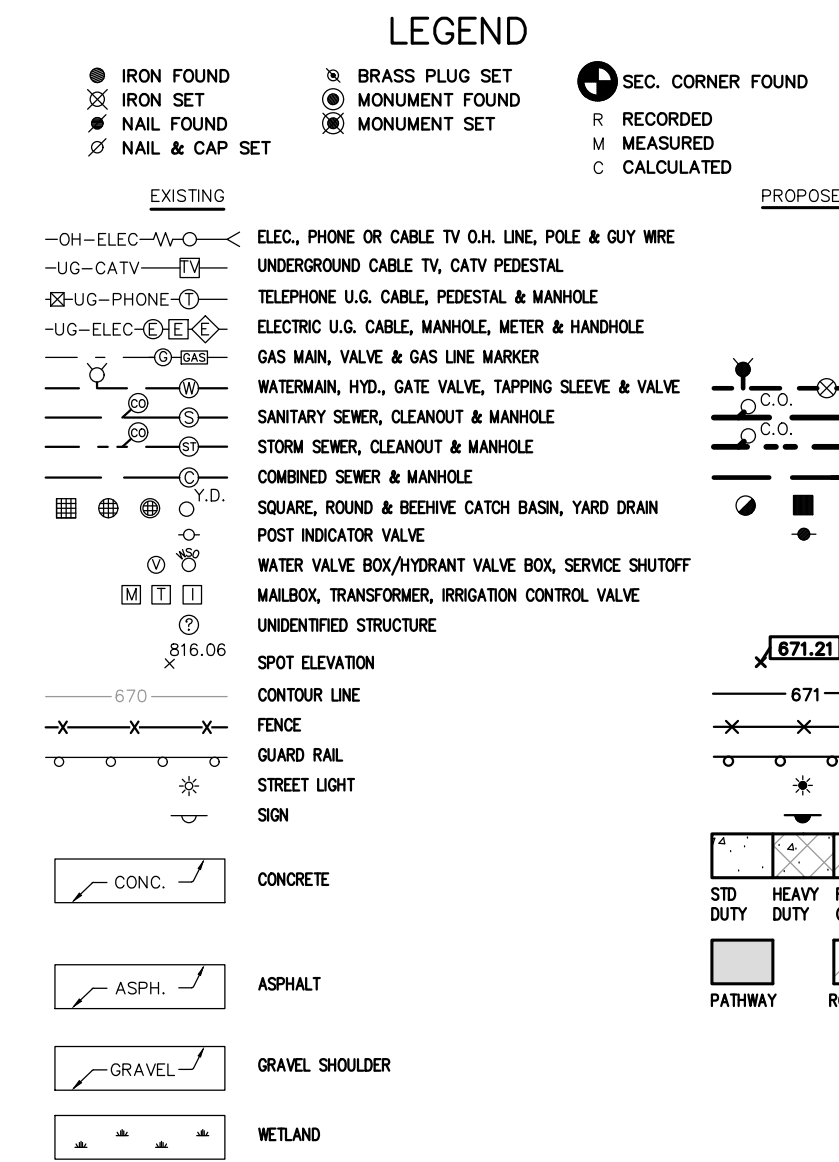
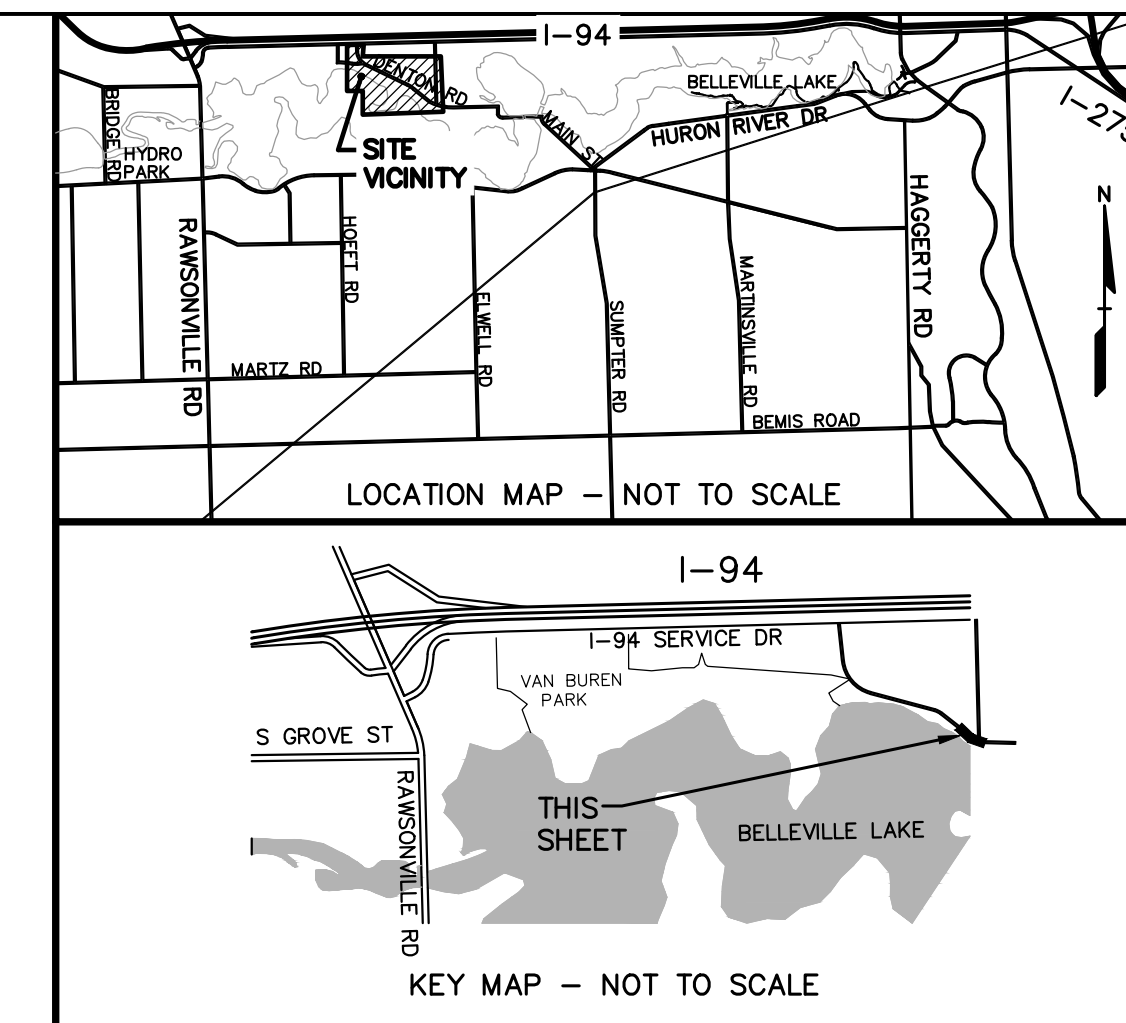
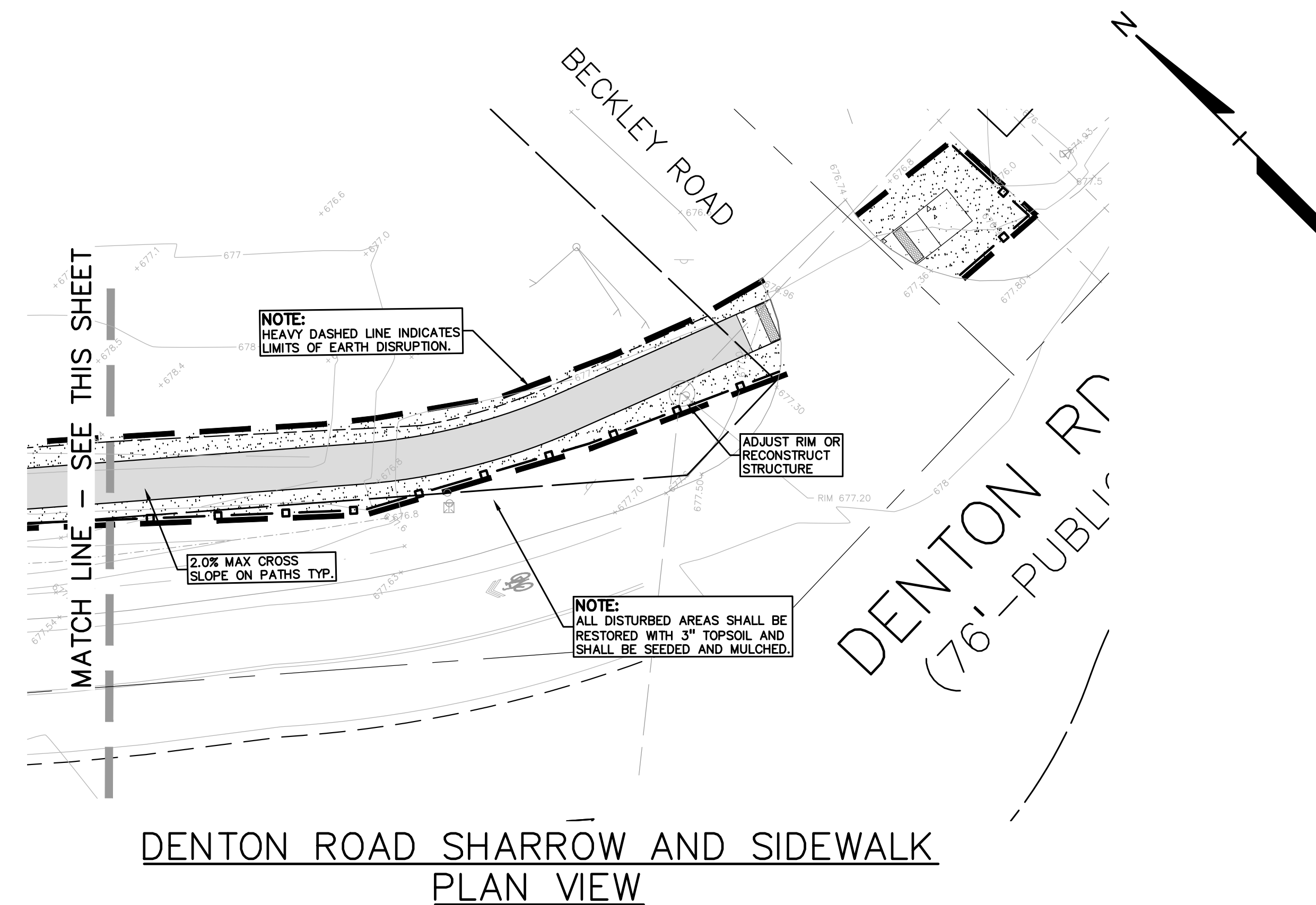
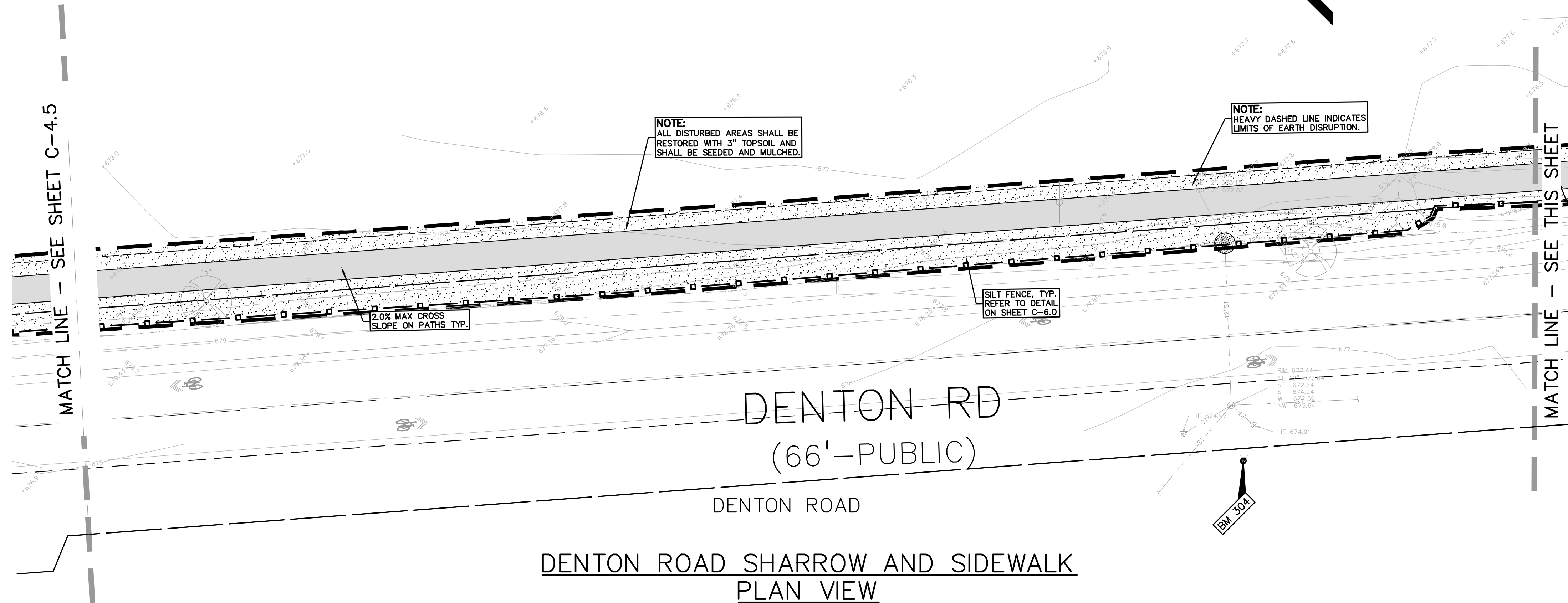
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C4.8

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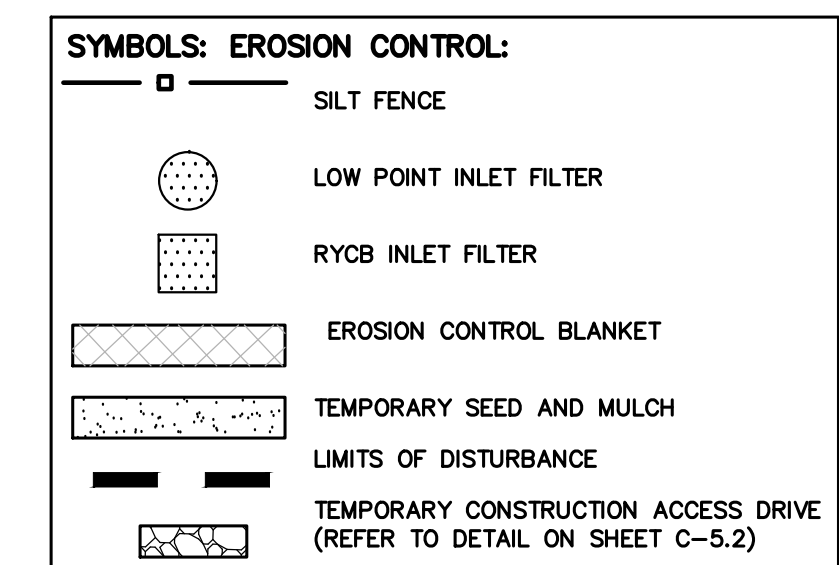
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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN\BTD\DWG\SITE PLAN\19-369 VB PARKWAY PLANS\X-TBLX-19369.DWG





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REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	BT	01/10/21	INITIAL REVISIONS
2	JMR	01/10/21	W/C REVISIONS

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GRADING AND SECC
IRON BELLE TRAIL-SECTION D

WAYNE COUNTY, MI

DES. JMR DN. SUR. JW P.M. US

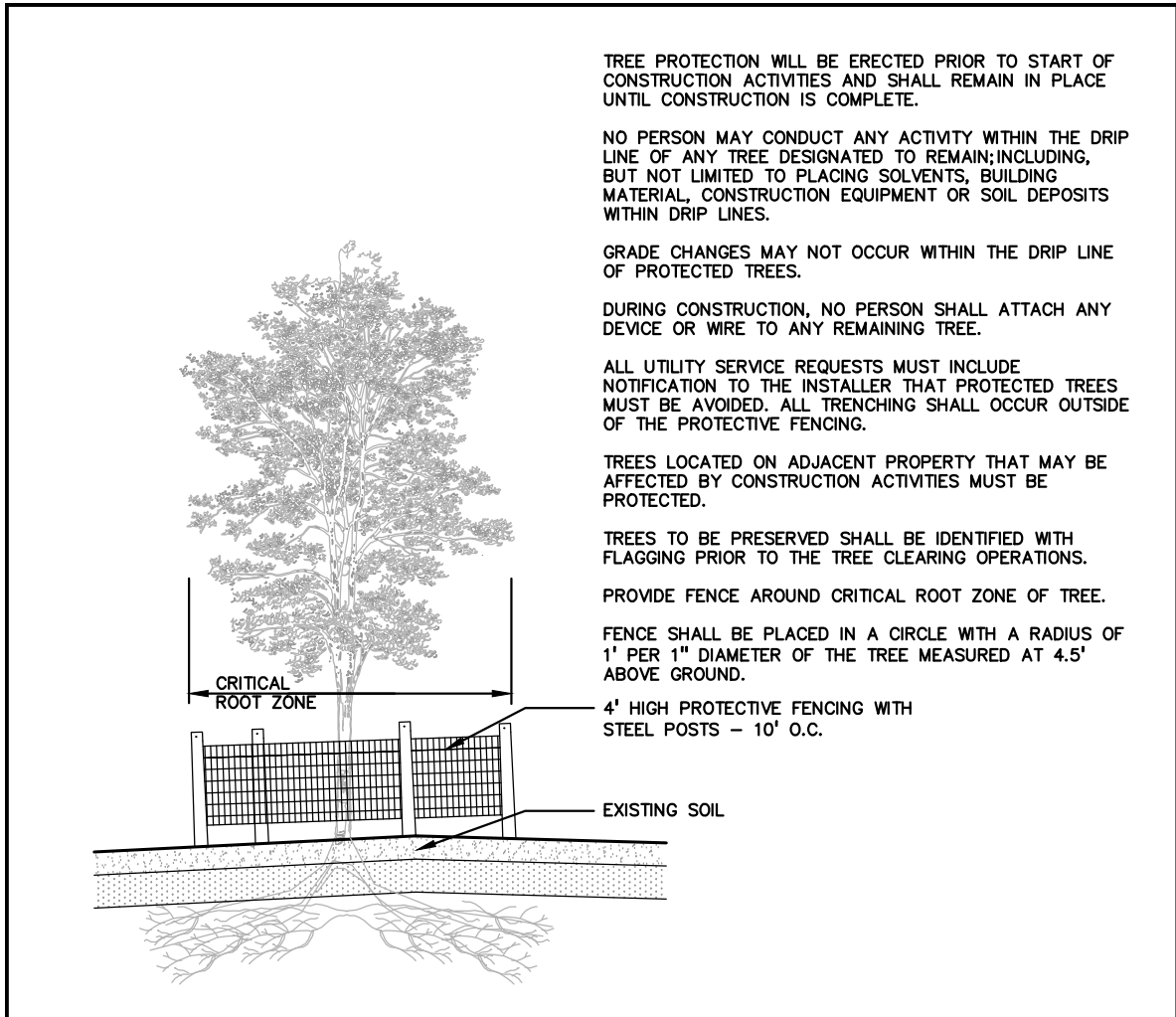
ORIGINAL ISSUE DATE:
MARCH 19, 2021

PEA JOB NO. 2019-369

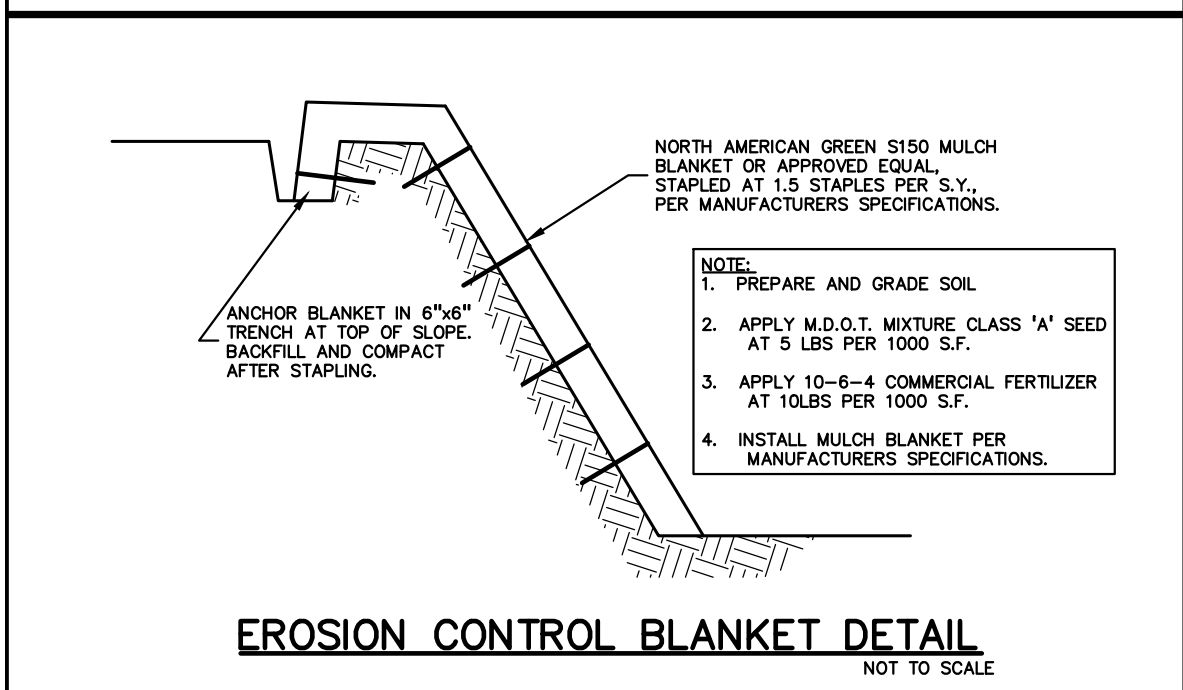
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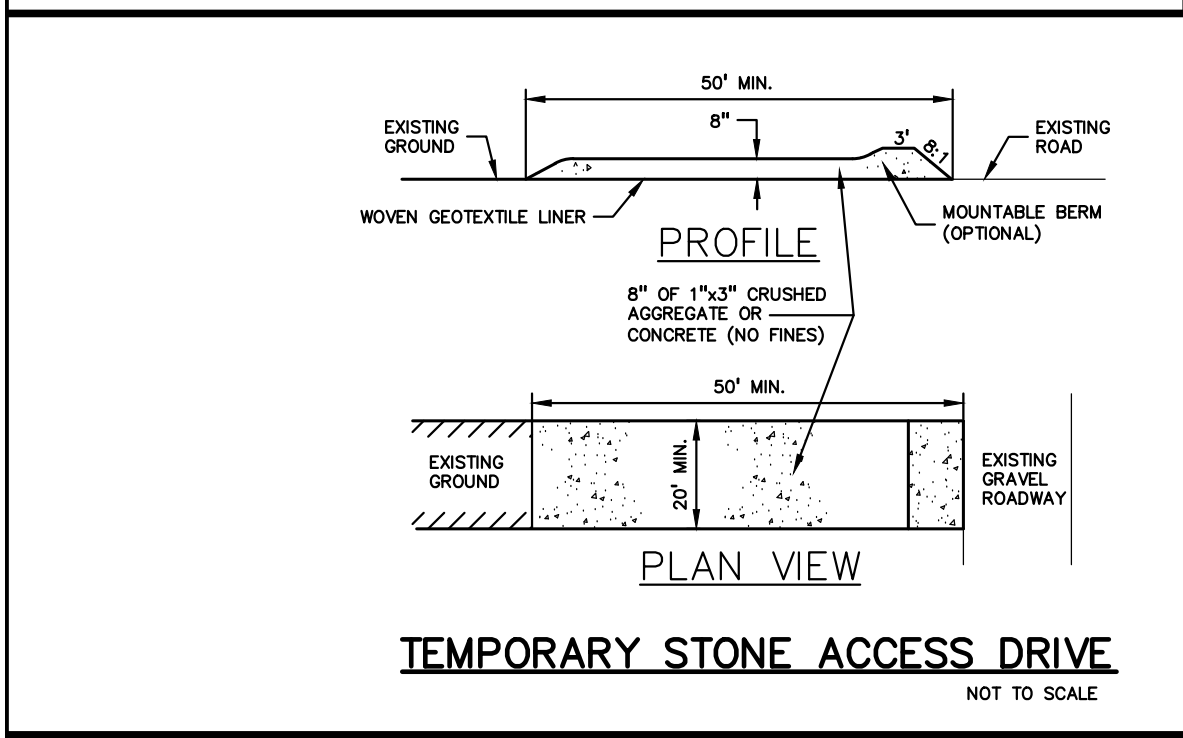
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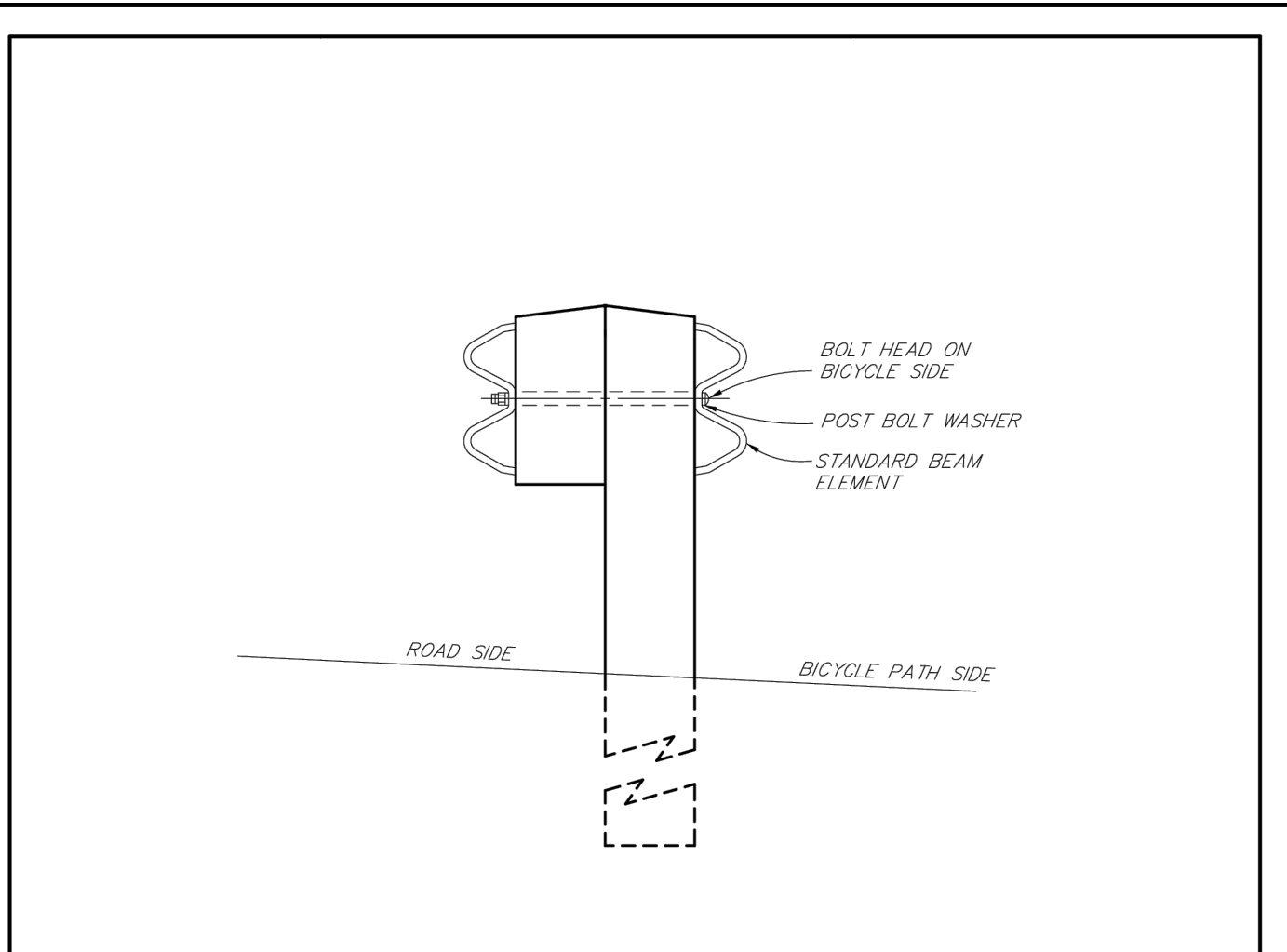
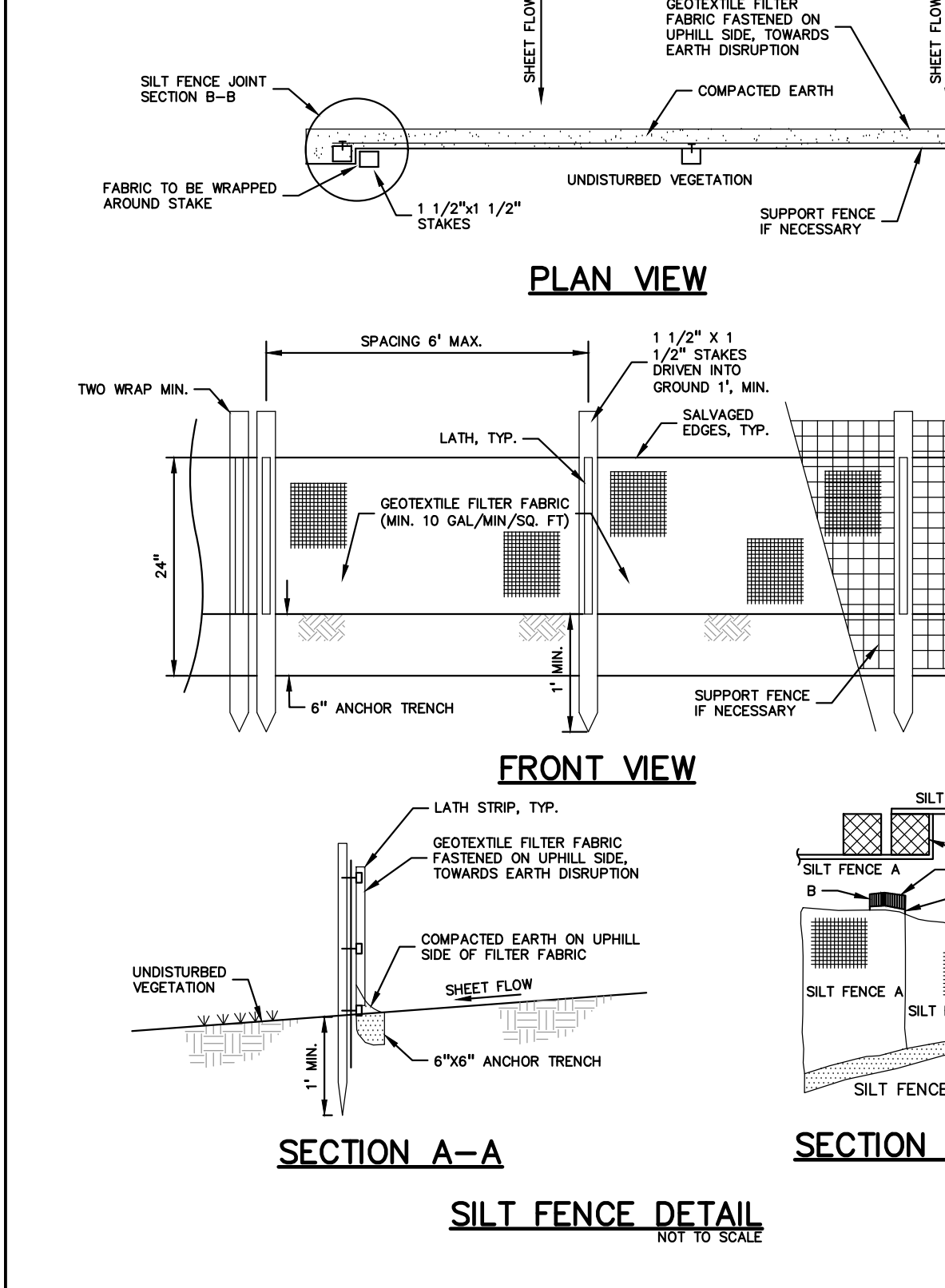
TREE PROTECTION DETAIL
NOT TO SCALE



EROSION CONTROL BLANKET DETAIL
NOT TO SCALE



TEMPORARY STONE ACCESS DRIVE
NOT TO SCALE



Guardrail-Bicycle Path is Guardrail, Type B, modified as shown with the addition of Standard beam Element, Post Bolt Washer (in place of Round Washer), and post Bolt Head installed on the bicycle path side.

Beam Element shall be lapped in the direction of Traffic on the Road side and in the Direction of the Adjacent Cyclist Traffic on the Bicycle Path side.

For details not shown see M.D.O.T. Standard Plans R-60 Series.

NOTE:

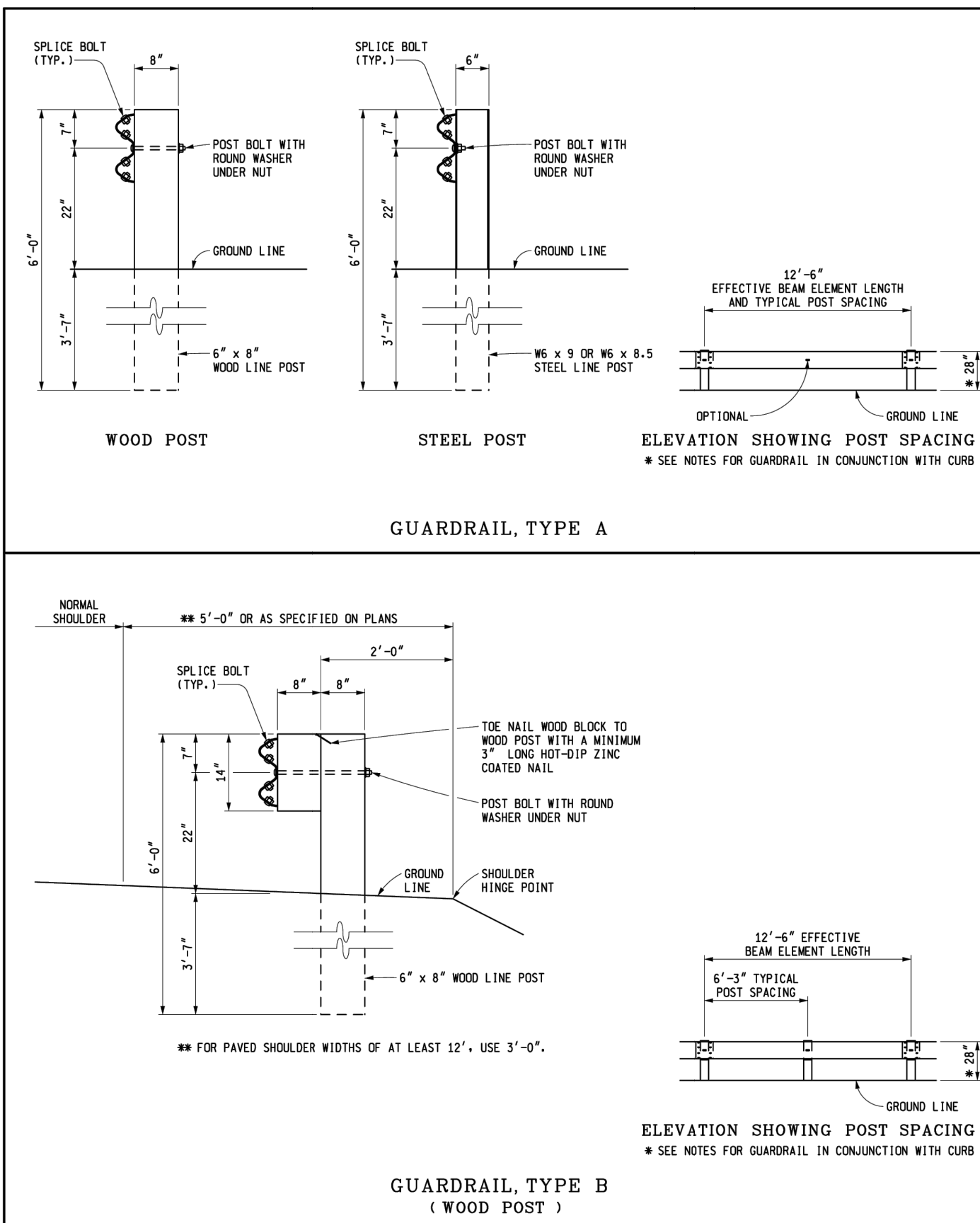
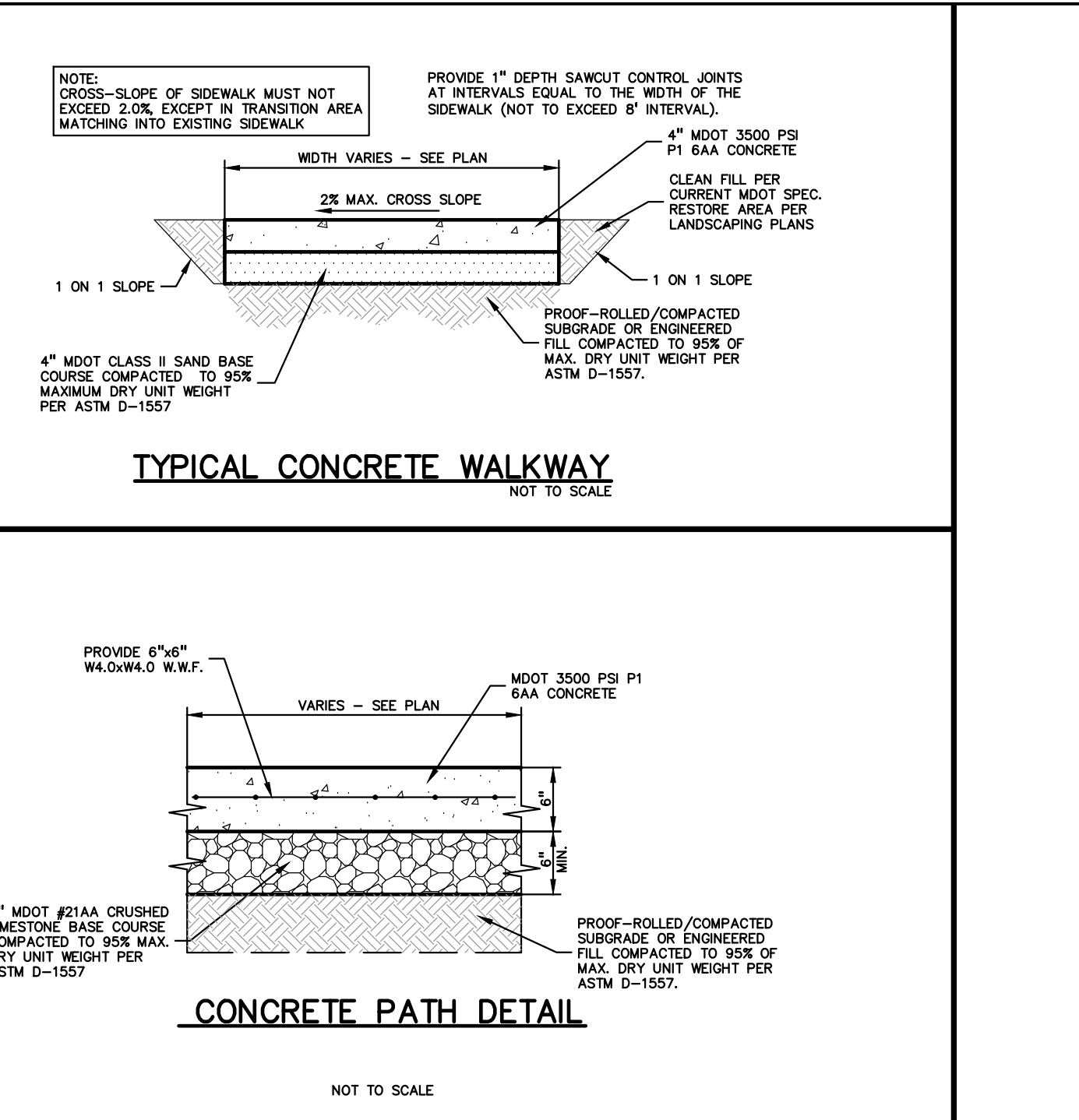
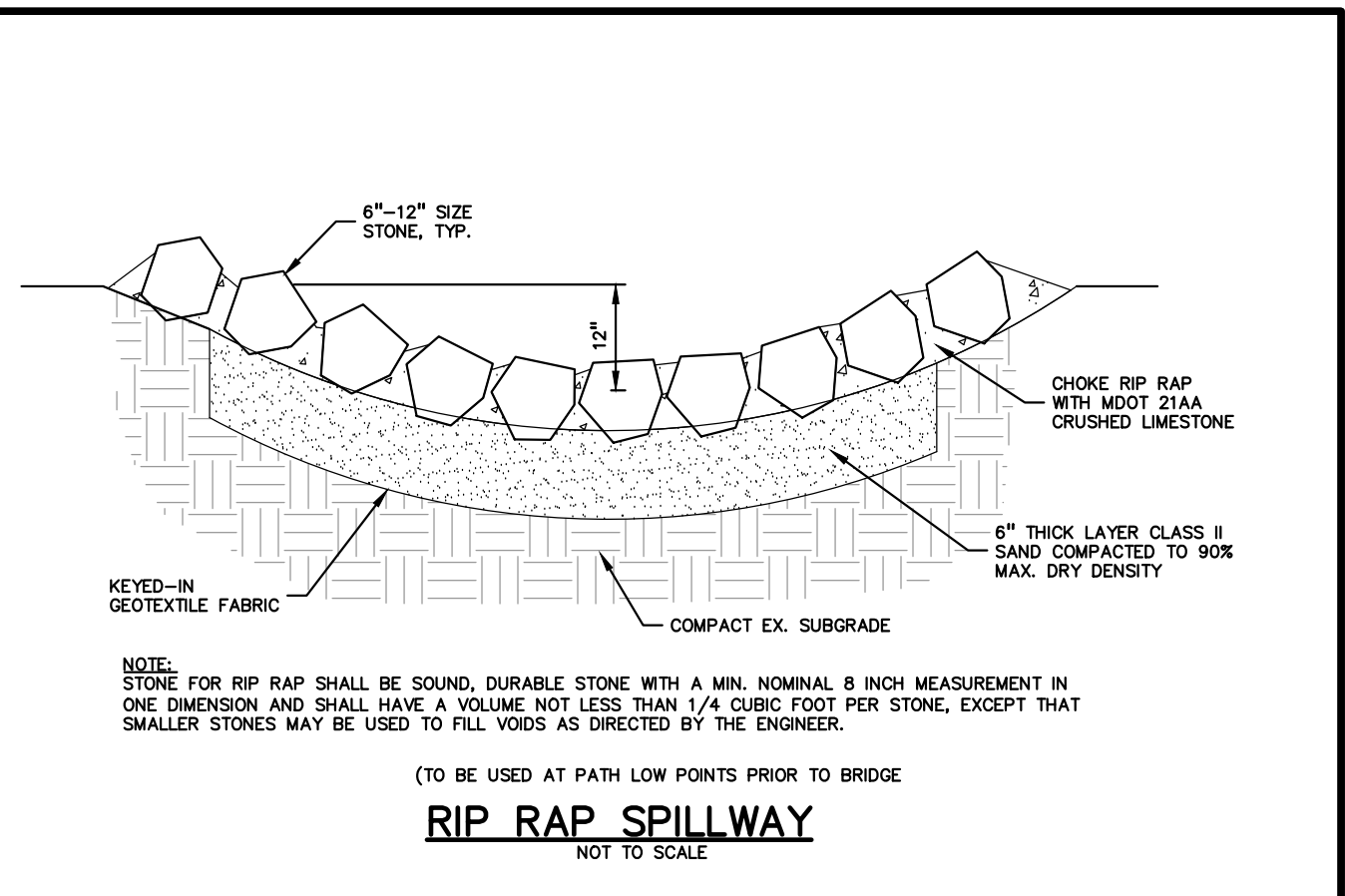
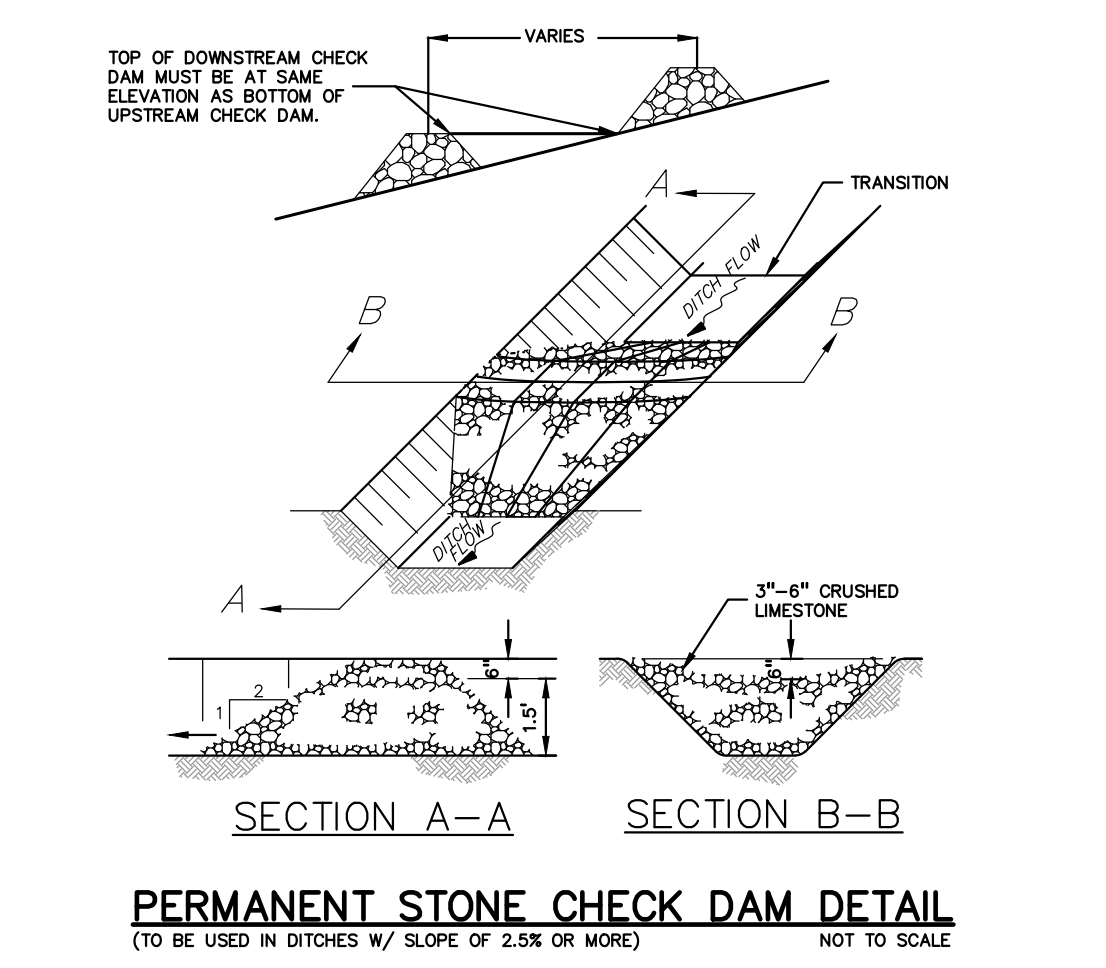
MOOT GUARDRAIL "TYPE B MODIFIED" IS TO BE USED ON SOUTH SIDE OF ROAD - SEE SHEET C-3.0-3.1 FOR LOCATION

MOOT GUARDRAIL "TYPE B" IS TO BE USED ON NORTH SIDE OF ROAD - SEE SHEET C-3.0-3.1 FOR LOCATION AND REFER TO MOOT STANDARD PLANS R-60 SERIES FOR DETAILS

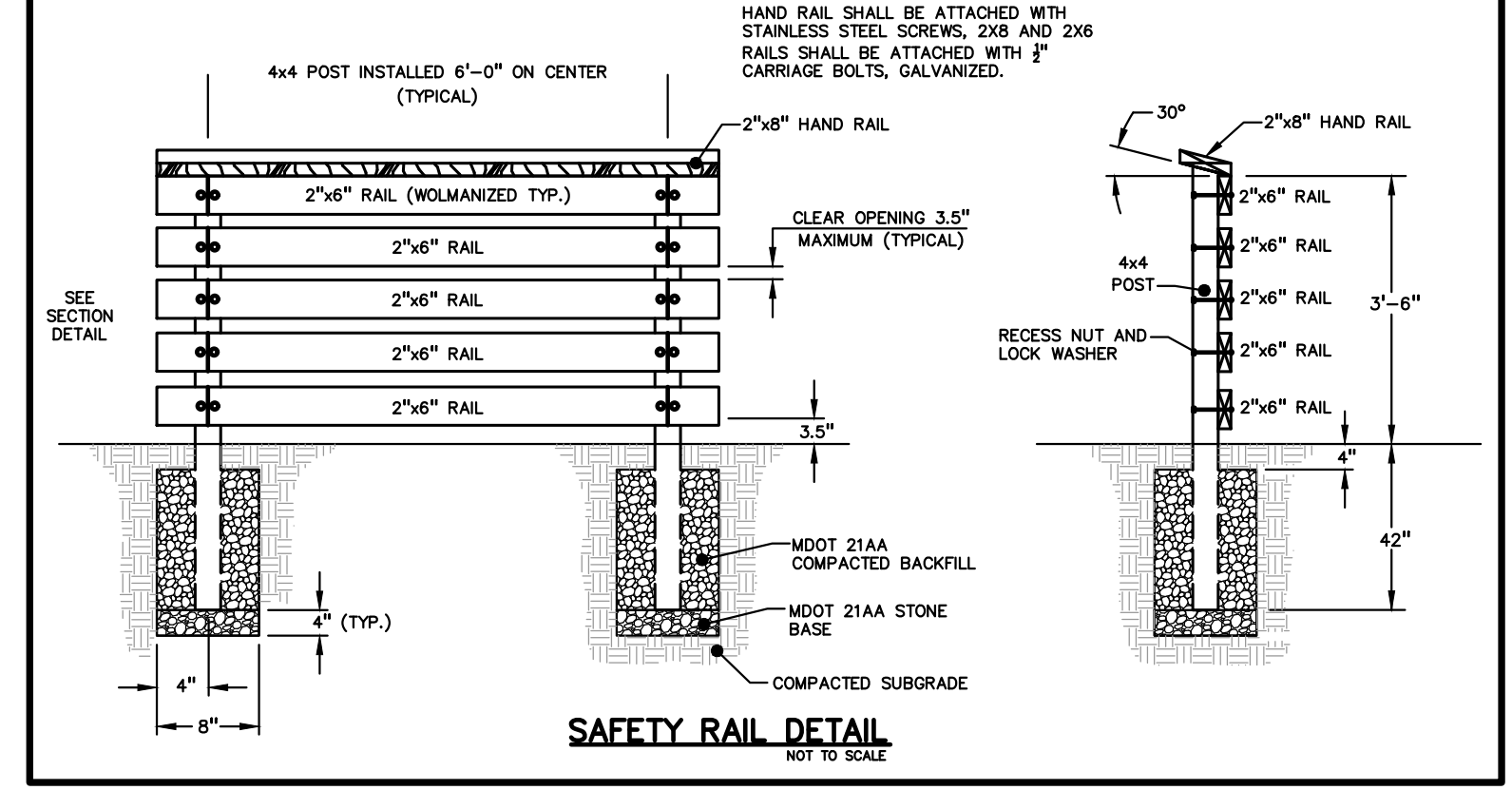
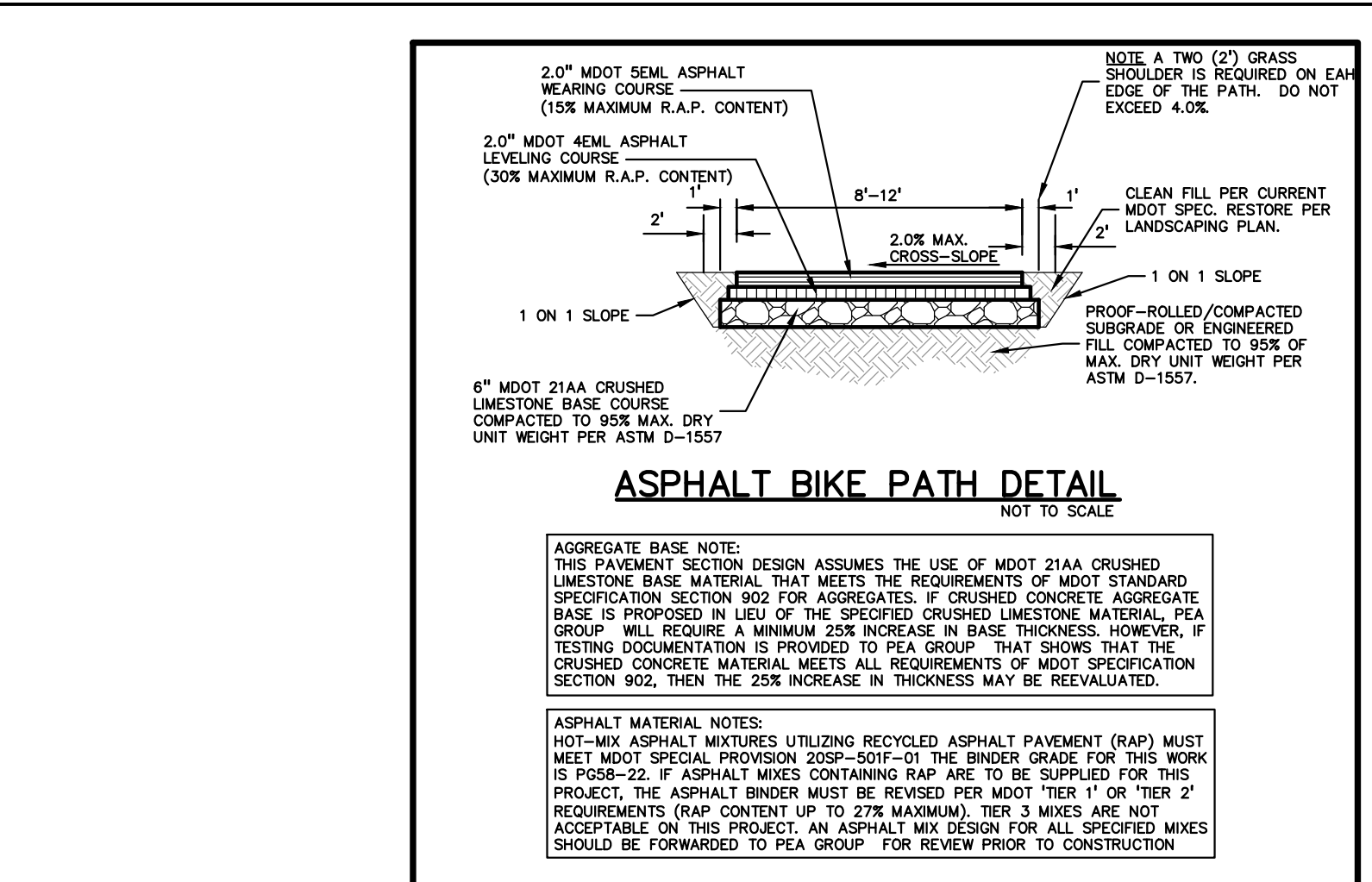
ALL GUARD RAIL IS TO HAVE MSKT TERMINAL ENDS - REFER TO MOOT STANDARD PLANS AND DETAILS

REVISION DATE:	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES	SCALE
DIRECTOR OF ENGINEERING:	ENGINEERING DIVISION/PERMIT OFFICE	NOT TO SCALE
DIVISION PERMIT ENGINEER:	PERMIT STANDARDS	M-1
	GUARDRAIL-BICYCLE PATH	SHEET 1 OF 1

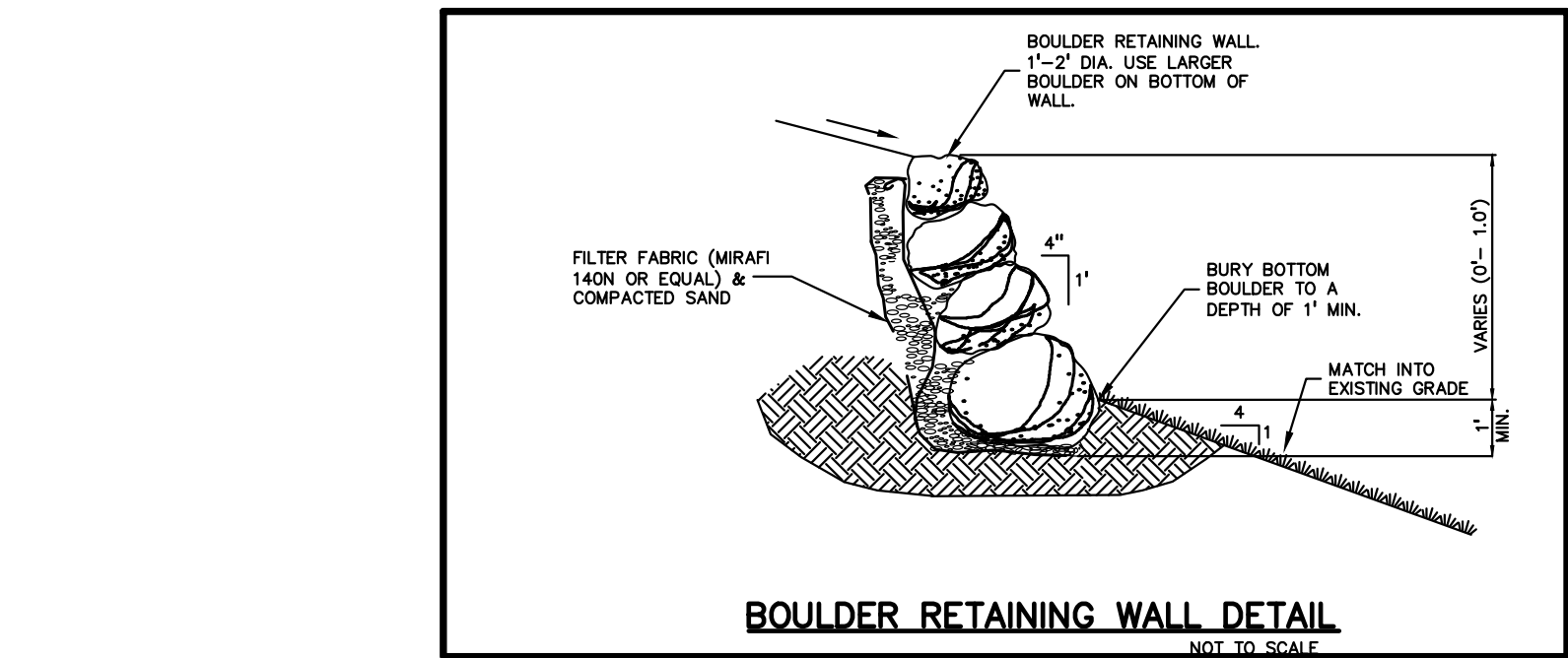
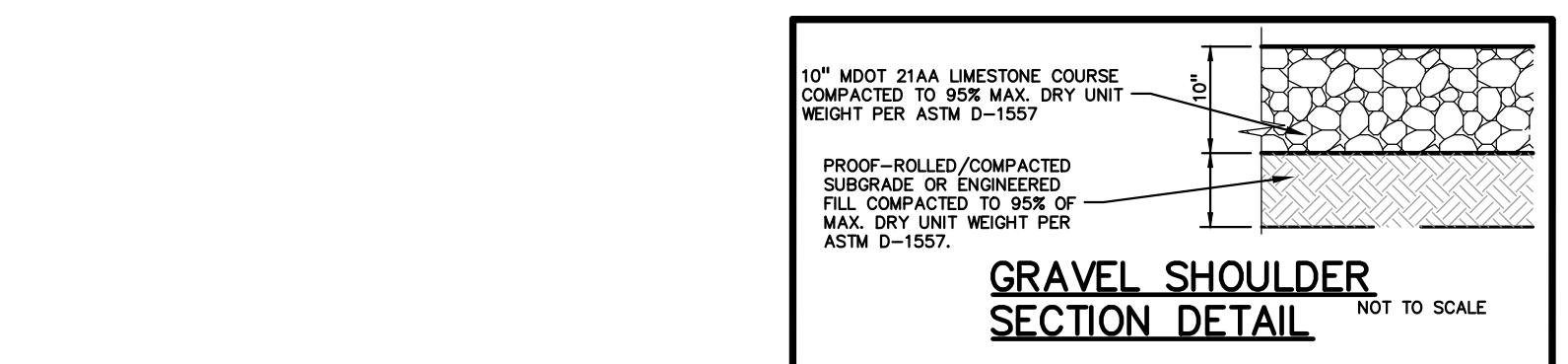
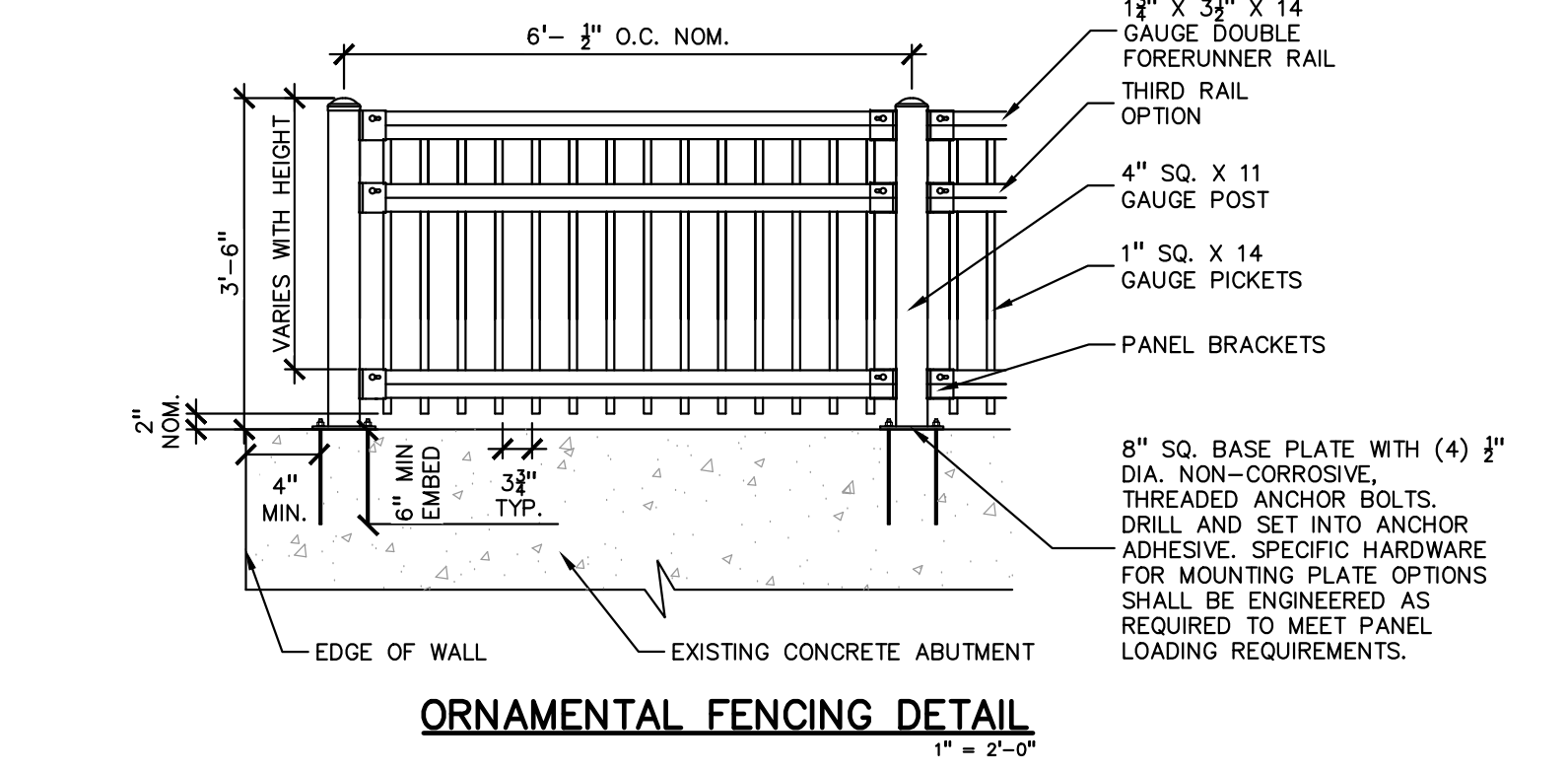
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DEPARTMENT DIRECTOR Paul C. Argab	MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR
PREPARED BY: DESIGN DIVISION DRAWN BY: B.L.L. CHECKED BY: M.S.P.	GUARDRAIL, TYPES A, B, BD, T, TD, MGS-8, & MGS-8D
APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES	F.B.N.A. APPROVAL
APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT	2-27-2019 PLAN DATE
	R-60-J
	SHEET 1 OF 17



- NOTES:
- 1.) FENCE
MANUFACTURER: AMERISTAR
PHONE #: 800.321.8724
PRODUCT: AEGIS II XTREME
STYLE: MAJESTIC, 3 RAIL PANELS
3.5' HEIGHT, 6' LONG PANELS STANDARD
BOTTOM RAIL, 4" STANDARD PICKET
AIRSPACE
COLOR: BRONZE
 - 2.) FENCING TO MEET STATE & LOCAL CODES
 - 3.) INSTALLATION PER MANUFACTURER'S RECOMMENDATION
 - 4.) SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION FOR APPROVAL



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XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\SITE PLANS\19-369 VB PARKWAY PLANS\X-SURF D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\19369-TOPOBASE.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\SITE PLANS\19-369 VB PARKWAY PLANS\X-BASE D-19369.DWG
XREF: S:\PROJECTS\2019\2019-369 VAN BUREN (BTDW)\SITE PLANS\19-369 VB PARKWAY PLANS\X-TBLX-19369.DWG

5-16-23	REVISIONS
4-10-23	
2	BY: JMR
1	BY: JMR

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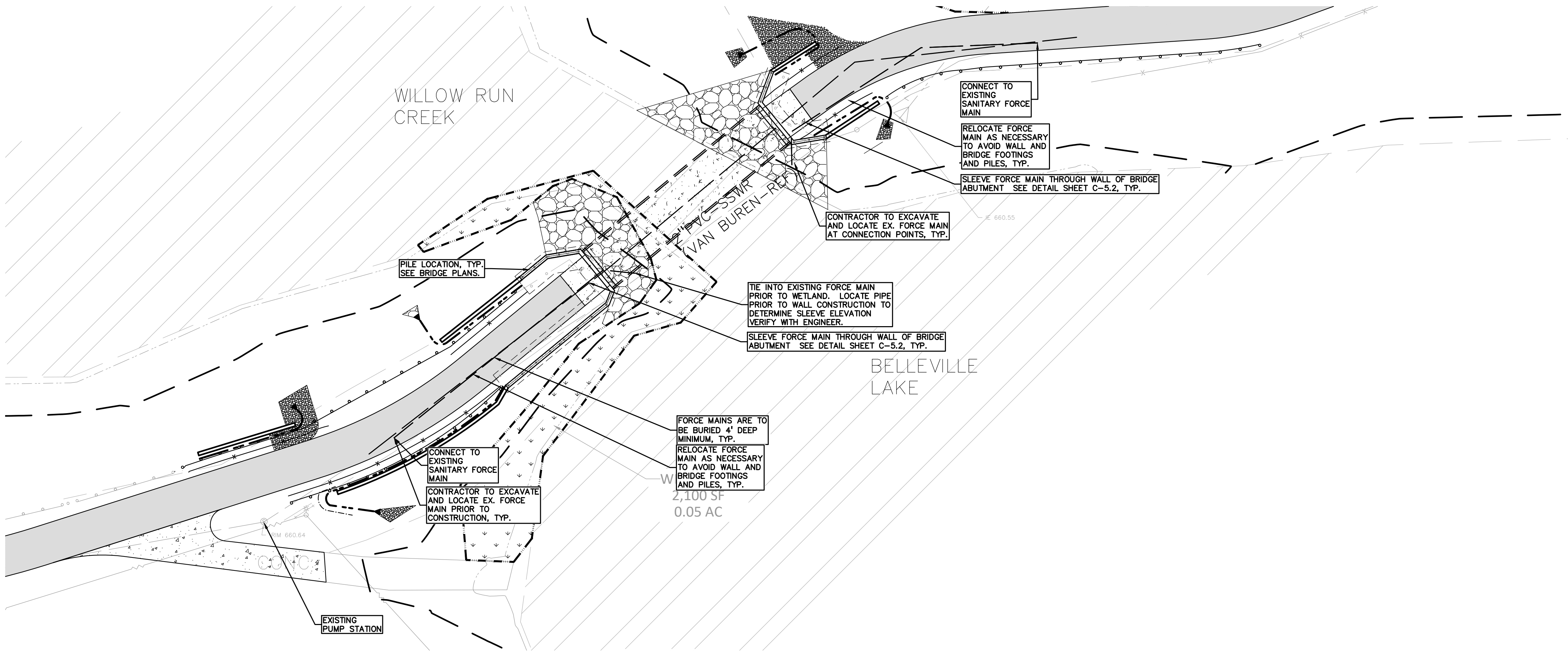
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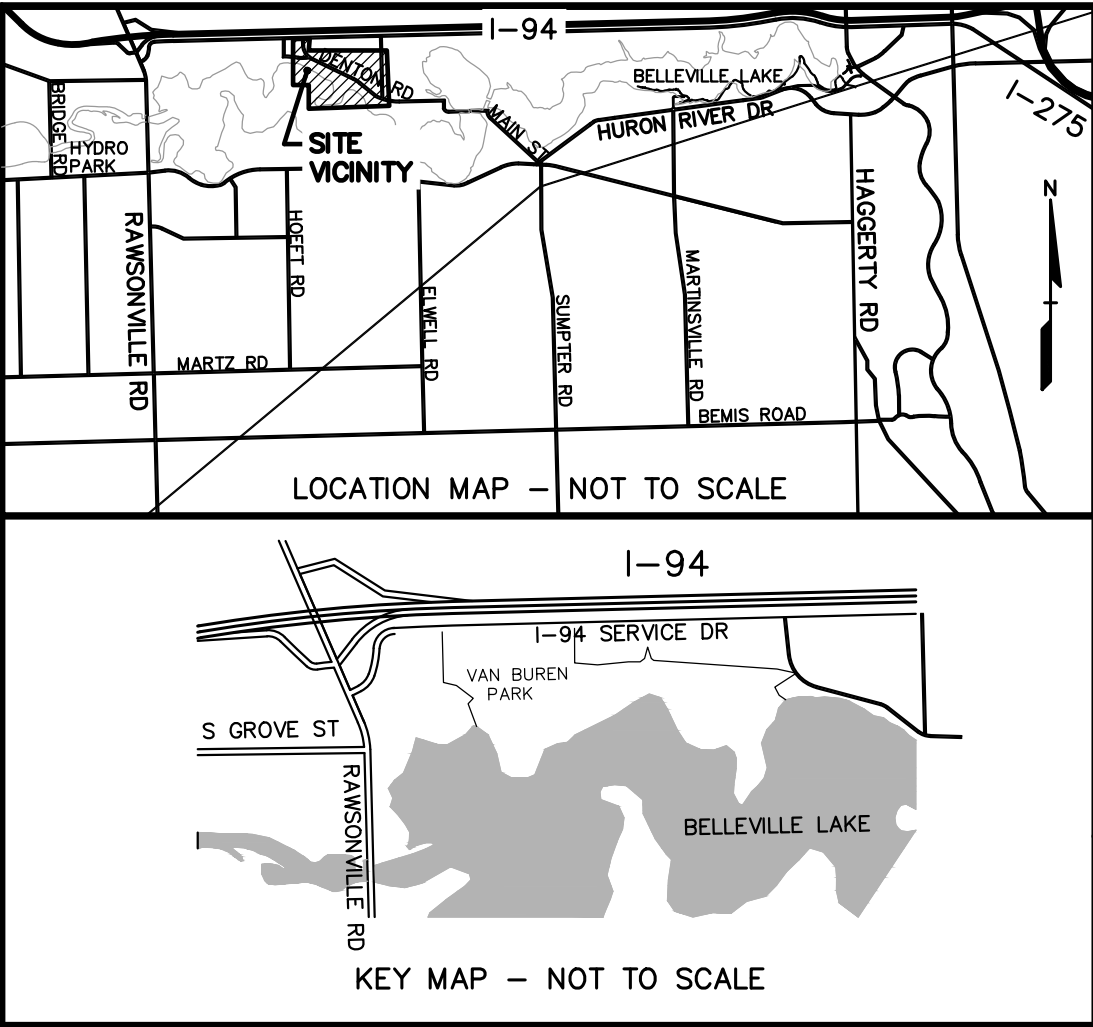
PEA GROUP

t: 844.813.2949
www.peagroup.com

VAN BUREN TOWNSHIP	DES.	JMR	DN.	JW	SUR.	JW	P.M.	US
48425 TYLER ROAD VAN BUREN TOWNSHIP, MI 48111								
DETAIL SHEET								
IRON BELLE TRAIL-SECTION D								
ORIGINAL ISSUE DATE: MARCH 19, 2021								
PEA JOB NO. 2019-369								
DRAWING NUMBER: C-5.1								



- FORCE MAIN NOTES:**
1. CONTRACTOR IS TO COORDINATE WITH THE TOWNSHIP DPW THE LOCATE THE EXISTING FORCE MAIN ALONG THE ABUTMENTS AND WALLS WHERE PILES ARE REQUIRED. DEPTH AND LOCATION ARE NECESSARY TO DETERMINE CONFLICTS WITH THE PROPOSED ABUTMENT AND WALL. REFER TO BRIDGE PLANS.
 2. IF CONFLICTS ARE PRESENT WITH THE FORCE MAIN AND THE PROPOSED HELICAL PILES, CONTRACTOR IS TO FIELD CORRECT. CONTACT PEA TO COORDINATE A SITE MEETING WITH STRUCTURAL ENGINEER AND TOWNSHIP DPW.
 3. RELOCATION OF THE FORCE MAIN MAY BE REQUIRED. PLANS IDENTIFY A POSSIBLE LOCATION TO AVOID PILES.
 4. CONTRACTOR IS TO CONSIDER ALL COST THAT MAY BE ASSOCIATED WITH THIS ALTERNATE CONSTRUCTION METHOD AND INCLUDE IN THE COST PER LINEAR FOOT OF FORCE MAIN.
 5. IF A RELOCATION OF THE FORCE MAIN IS REQUIRED, BY PASS PUMPING IS INCIDENTAL TO THE COST OF 2" SANITARY SEWER FORCE MAIN. IT IS NOTED THE FORCE MAIN IS OUT OF SERVICE IN THE LATE FALL/WINTER.
 6. IF RELOCATION OF THE FORCE MAIN IS REQUIRED, UNDER THE STREAM A PERMIT FROM EGLE WILL BE REQUIRED AND A MINIMUM DELAY OF 4 MONTHS IS ANTICIPATED.
 7. ALL WORK IS TO BE DONE IN CONFORMANCE WITH VAN BUREN TOWNSHIP'S ENGINEERING STANDARDS.



REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	03/19/2021	JMR	ISSUED FOR PERMIT
2	03/19/2021	JMR	ISSUED FOR PERMIT

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ALTERNATE 1 IRON BELLE TRAIL-SECTION D			
DES.	JMR	DN.	WAYNE COUNTY, MI
SUR.	JW	P.M.	US

ORIGINAL ISSUE DATE:
MARCH 19, 2021

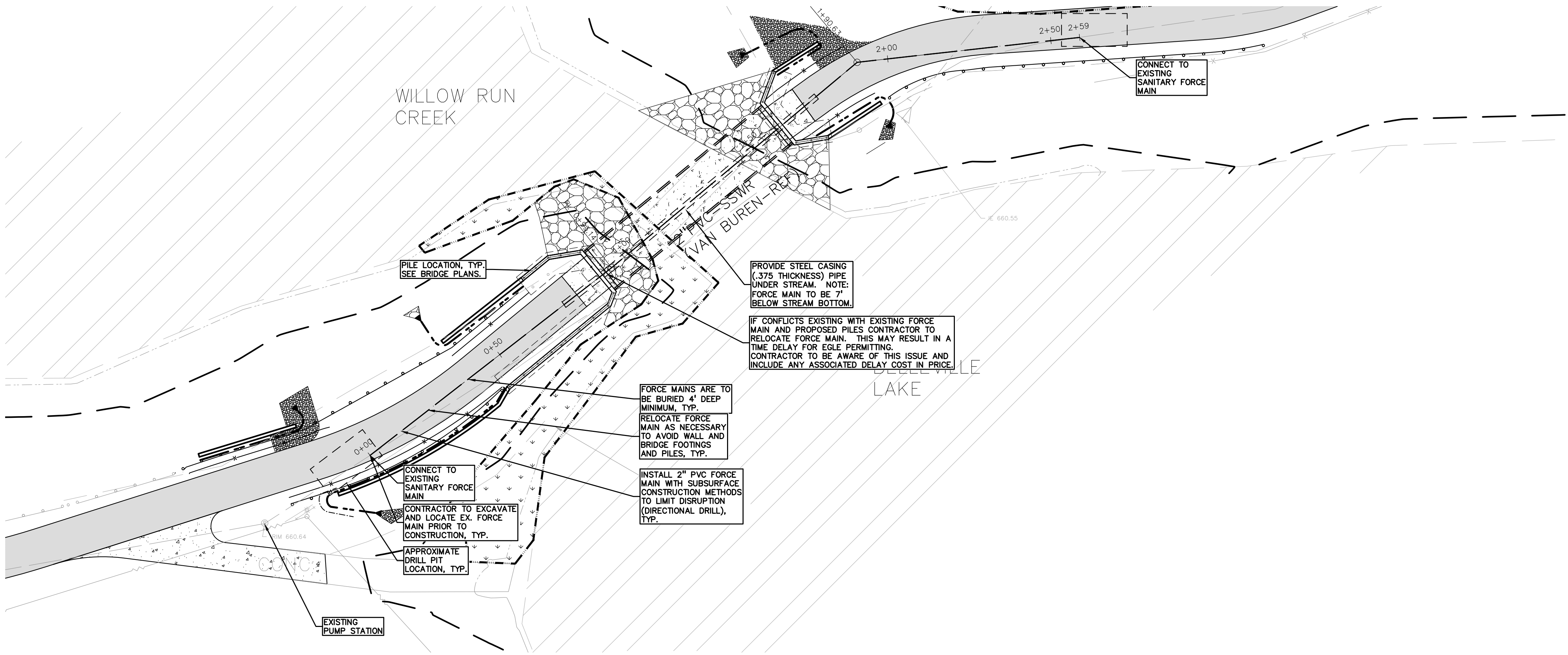
PEA JOB NO. 2019-369

1"=20'

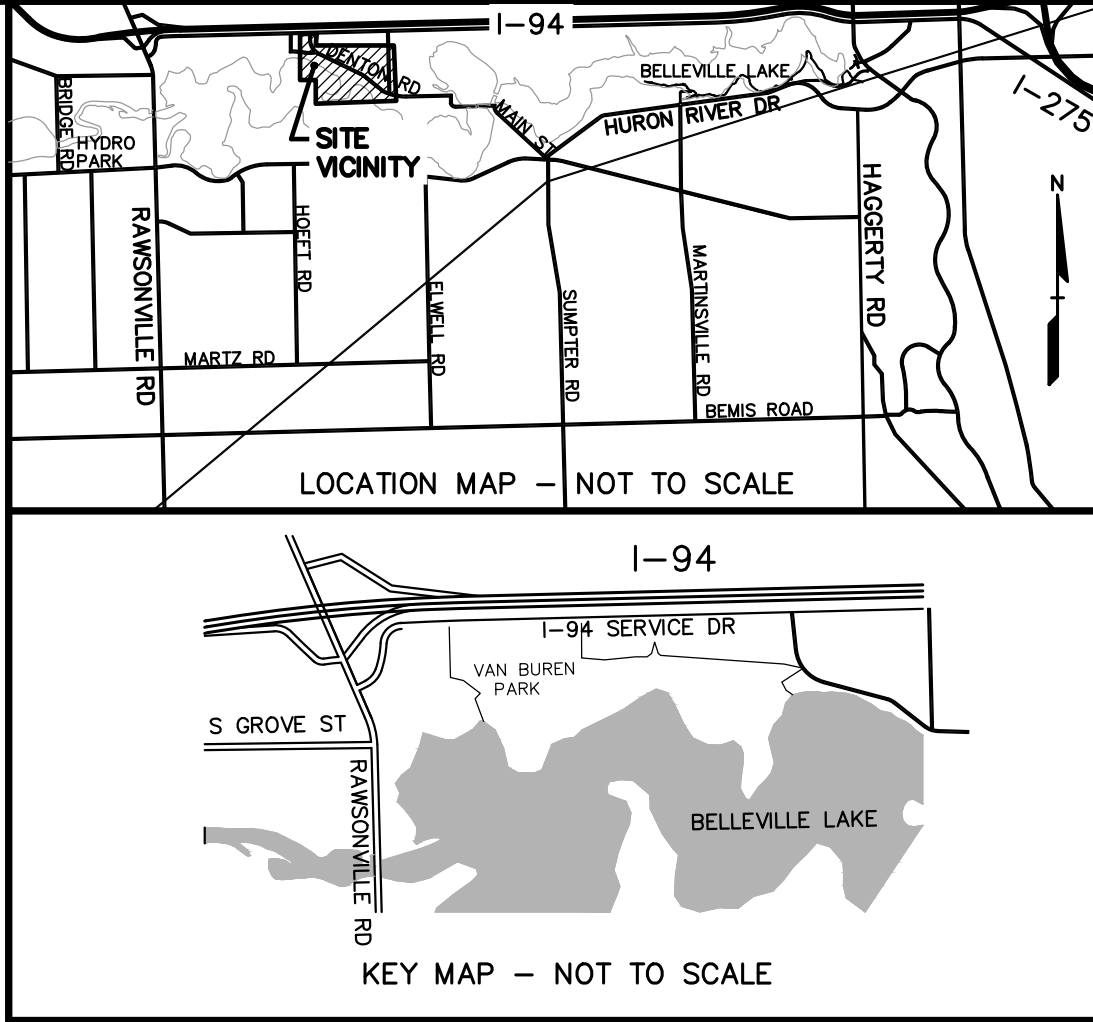
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ALTERNATE 1 – OPEN CUT



- FORCE MAIN NOTES:**
1. CONTRACTOR IS TO COORDINATE WITH THE TOWNSHIP DPW THE LOCATE THE EXISTING FORCE MAIN ALONG THE ABUTMENTS AND WALLS WHERE PILES ARE REQUIRED. DEPTH AND LOCATION ARE NECESSARY TO DETERMINE CONFLICTS WITH THE PROPOSED ABUTMENT AND WALL. REFER TO BRIDGE PLANS.
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 4. CONTRACTOR IS TO CONSIDER ALL COST THAT MAY BE ASSOCIATED WITH THIS ALTERNATE CONSTRUCTION METHOD AND INCLUDE IN THE COST PER LINEAR FOOT OF FORCE MAIN.
 5. IF A RELOCATION OF THE FORCE MAIN IS REQUIRED, BY PASS PUMPING IS INCIDENTAL TO THE COST OF 2" SANITARY SEWER FORCE MAIN. IT IS NOTED THE FORCE MAIN IS OUT OF SERVICE IN THE LATE FALL/WINTER.
 6. IF RELOCATION OF THE FORCE MAIN IS REQUIRED, UNDER THE STREAM A PERMIT FROM EGLE WILL BE REQUIRED AND A MINIMUM DELAY OF 4 MONTHS IS ANTICIPATED.
 7. ALL WORK IS TO BE DONE IN ACCORDANCE WITH VAN BUREN TOWNSHIPS ENGINEERING STANDARDS AND EGLE REQUIREMENTS.



REVISIONS	
NO. BY DATE	DESCRIPTION
1. BY JMR	WC REVISIONS
2. BY JMR	WC REVISIONS
3. BY JMR	WC REVISIONS
4. BY JMR	WC REVISIONS
5. BY JMR	WC REVISIONS
6. BY JMR	WC REVISIONS
7. BY JMR	WC REVISIONS
8. BY JMR	WC REVISIONS
9. BY JMR	WC REVISIONS
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ALTERNATE 2
IRON BELLE TRAIL-SECTION D

DES. JMR DN. SUR. JW P.M. US
WAYNE COUNTY, MI
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ALTERNATE 2 – SUBSURFACE