

CONSTRUCTION PLANS FOR  
IRON BELLE TRAIL  
VAN BUREN TOWNSHIP SECTION J  
VAN BUREN TOWNSHIP  
WAYNE COUNTY, MI

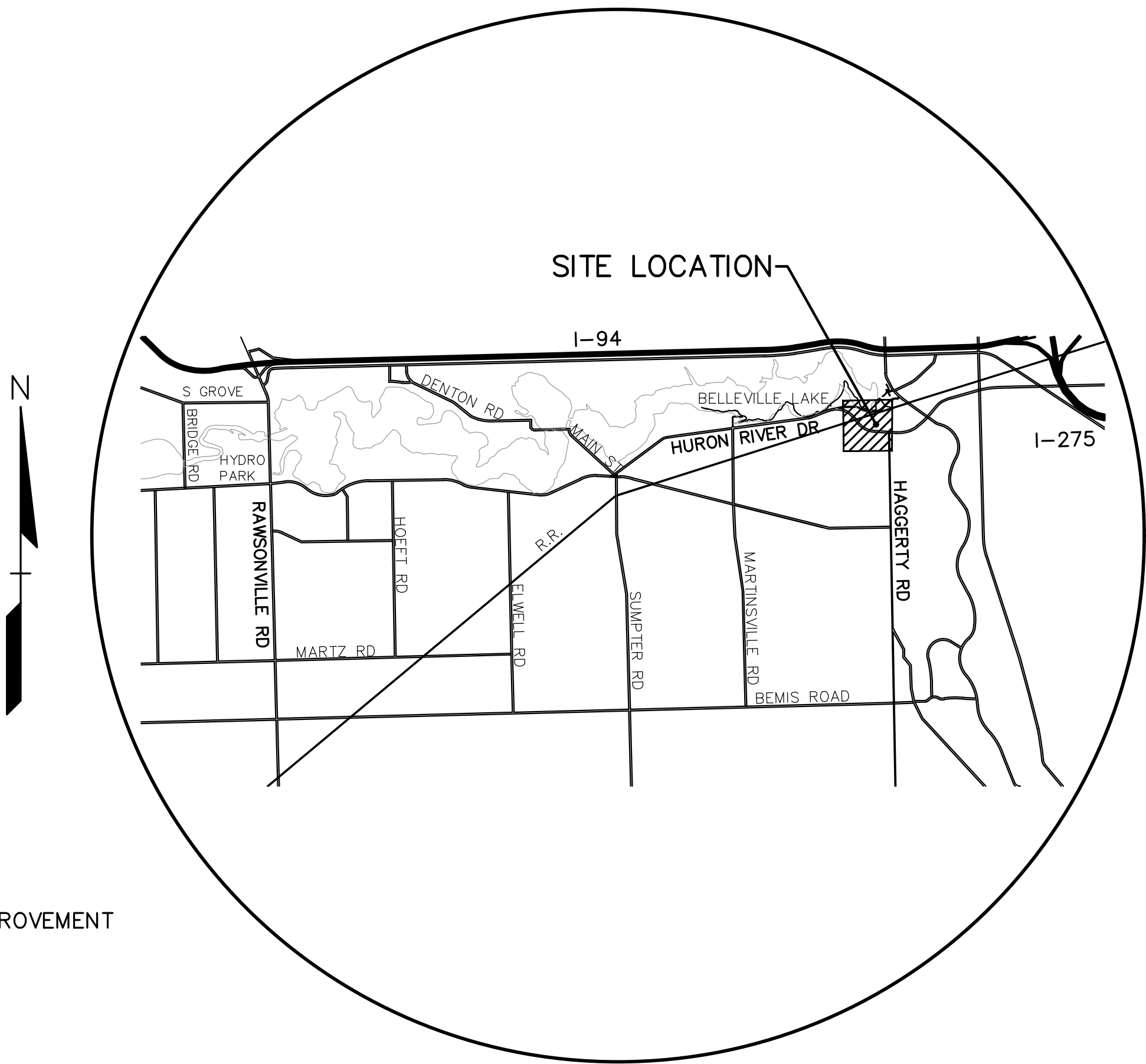
PROJECT CONTACTS

OWNER/APPLICANT/DEVELOPER:  
VAN BUREN TOWNSHIP  
46425 TYLER ROAD  
VAN BUREN TWP, MI 48111  
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ATLANTA, GA 30308  
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PHONE: (404) 529-1436  
FAX: (404) 592-2589  
ELDRIDGE.CHAMBERS@NSCORP.COM



LOCATION MAP  
NO SCALE

INDEX OF DRAWINGS:

C-0.0 - COVER SHEET

C-1.1 - OVERALL PLAN & NOTES  
C-1.2 - TRAFFIC CONTROL PLAN

C-2.1 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 1  
C-2.2 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 2  
C-2.3 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 3  
C-2.4 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 4  
C-2.5 - TOPOGRAPHIC SURVEY & DEMOLITION - SHEET 5

C-3.1 - LAYOUT PLAN - SHEET 1  
C-3.2 - LAYOUT PLAN - SHEET 2  
C-3.3 - LAYOUT PLAN - SHEET 3  
C-3.4 - LAYOUT PLAN - SHEET 4  
C-3.5 - LAYOUT PLAN - SHEET 5

C-4.1 GRADING & EROSION CONTROL PLAN - SHEET 1  
C-4.2 GRADING & EROSION CONTROL PLAN - SHEET 2  
C-4.3 GRADING & EROSION CONTROL PLAN - SHEET 3  
C-4.4 GRADING & EROSION CONTROL PLAN - SHEET 4  
C-4.5 GRADING & EROSION CONTROL PLAN - SHEET 5

C-5.1 - DETAIL SHEET 1  
C-5.2 - DETAIL SHEET 2  
C-5.3 - DETAIL SHEET 3

NORFOLK SOUTHERN NOTE:

1. GREAT LAKES DIVISION MP D-21.73.
2. CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC DEPARTMENT BEFORE STARTING CONSTRUCTION AND FOR ADDITIONAL UNDERGROUND INFORMATION AT (734) 955-2154.
3. ROMULUS, MICHIGAN - NS FILE CX1114226 -HURON RIVER DRIVE AT-GRADE SIDEWALK CONSTRUCTION.

WAYNE COUNTY NOTE:

1. WAYNE COUNTY R 20-656 REVIEW NUMBER.
2. CONTRACTOR SHALL NOTIFY THE WAYNE COUNTY TRAFFIC DEPARTMENT BEFORE STARTING CONSTRUCTION AND FOR ADDITIONAL UNDERGROUND INFORMATION AT (734) 955-2154.



CAUTION!!  
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CLIENT

VAN BUREN TOWNSHIP  
46425 TYLER ROAD  
VAN BUREN, MICHIGAN



VAN BUREN  
CHARTER TOWNSHIP

PROJECT TITLE

IRON BELLE TRAIL -  
SECTION J  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN



REVISIONS

ORIGINAL ISSUE 12/2/20	-
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN 11/10/21	
REVISION PER MDOT ORDER 9/01/222	
REVISION PER TWP	1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

DRAWING TITLE

COVER SHEET

PEA JOB NO. 2020-0095

P.M. JTS

DN. JMR

DES. JMR

DRAWING NUMBER:

NOT FOR CONSTRUCTION

C-0.0







E. HURON RIVER DRIVE



NOT TO SCALE			
 Michigan Department of Transportation OPERATIONS			
		01/01/07 REV. DATE	MD - TABLES PAGE AMT



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**VAN BUREN**  
CHARTER TOWNSHIP



REVISIONS	
ORIGINAL ISSUE	12/2/20
REVISION	1/27/21
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/222
REVISION PER TWP	1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

DRAWING TITLE

**TRAFFIC  
CONTROL  
SHEET**

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMR
DES.	JMR
DRAWING NUMBER:	

**NOT FOR CONSTRUCTION**

## C-1.2



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#### 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.
- REFER TO SHEET DETAIL SHEET FOR TREE PROTECTION DETAILS.
- 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.
- 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.

#### DEMOLITION LEGEND:

ITEM TO BE PROTECTED	
ITEM TO BE REMOVED	
CURB/FENCE REMOVAL	
CONCRETE PAVEMENT SIDEWALK AND TREE/BRUSH REMOVAL	
UTILITY REMOVAL	
ASPHALT REMOVAL	
TREE REMOVAL	
SAWCUT LINE	

#### BENCHMARKS

(GPS DERIVED - NAVD 88)

BM #300  
TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD.  
ELEV. - 656.26

BM #301  
TOP OF SANITARY MANHOLE, 48 FEET WEST OF THE CENTER LINE OF THE EAST HURON RIVER DR. AN D190 FEET NORTHWEST OF THE INTERSECTION OF EAST HURON RIVER DR. AND RAILROAD TRACKS.  
ELEV. - 659.44

BM #302  
TOP OF SANITARY MANHOLE, 51 FEET SOUTHWEST OF CENTER LINE OF EAST HURON RIVER DR. AND 315 FEET SOUTHEAST OF THE INTERSECTION OF EAST HURON RIVER DR. AND EDISON LAKE RD.  
ELEV. - 656.49

#### 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 26163C0354E DATED FEBRUARY, 02, 2012.

#### LEGEND

	IRON FOUND		BRASS PLUG SET		SEC. CORNER FOUND
	IRON SET		MONUMENT FOUND		R RECORDED
	NAIL FOUND		MONUMENT SET		M MEASURED
	NAIL & CAP SET				C CALCULATED
<b>EXISTING</b>					
	OH-ELEC		ELEC, PHONE OR CABLE TV, O.H. LINE, POLE & GUY WIRE		UG-CATV
	UG-CATV		UG-PHONE		UG-ELEC
	UG-ELEC		GAS MAN, VALVE & GAS LINE MARKER		WATERMAN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
	SANITARY SEWER		CLEANOUT & MANHOLE		STORM SEWER
	COMBINED SEWER		SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN		POST INDICATOR VALVE
	WATER VALVE		BOXHYDRANT VALVE BOX, SERVICE SHUTOFF		MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
	UNIDENTIFIED STRUCTURE		SPOT ELEVATION		CONTOUR LINE
	FENCE		GUARD RAIL		STREET LIGHT
	SIGN		CONCRETE		ASPHALT
	GRAVEL		WETLAND		31D HEAVY DUTY ONLY
	31D HEAVY DUTY ONLY		STD HEAVY DUTY		STD HEAVY DUTY
	STD HEAVY DUTY		STD HEAVY DUTY		STD HEAVY DUTY

#### REFERENCE DRAWINGS

SANITARY SEWER  
DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO. 15-SA-6-1,  
DATED 04/11/02, SHEET 3 OF 7  
ELECTRIC  
CABLE  
DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020  
AT&T MAPS A1 A&2, DATED 03/19/2020  
CONCAST MAP, ISMAIL, DATED 03/19/2020  
DTE GAS COMPANY MAP DATED 03/23/2020

#### TRAIL PLAN-E. HURON RIVER DR.

STA 0+00 TO STA 5+62

E. HURON RIVER DR.  
(VARIABLE WIDTH-PUBLIC)

PEA  
GROUP

t: 844.813.2949  
www.peagroup.com



0 10 20 40  
SCALE: 1" = 20'



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CLIENT

VAN BUREN TOWNSHIP  
46425 TYLER ROAD  
VAN BUREN, MICHIGAN



VAN BUREN  
CHARTER TOWNSHIP

PROJECT TITLE

IRON BELLE TRAIL -  
SECTION J

VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN



#### REVISIONS

ORIGINAL ISSUE	12/2/20
REVISION	1/27/21
REVISION	NORFOLK SOUTHERN 11/10/21
REVISION	PER MDOT ORDER 9/01/222
REVISION	PER TWP
	1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

DRAWING TITLE

TOPOGRAPHICAL  
SURVEY &  
DEMOLITION  
SHEET

PEA JOB NO. 2020-0095

P.M. JTS

DN. JMR

DES. JMR

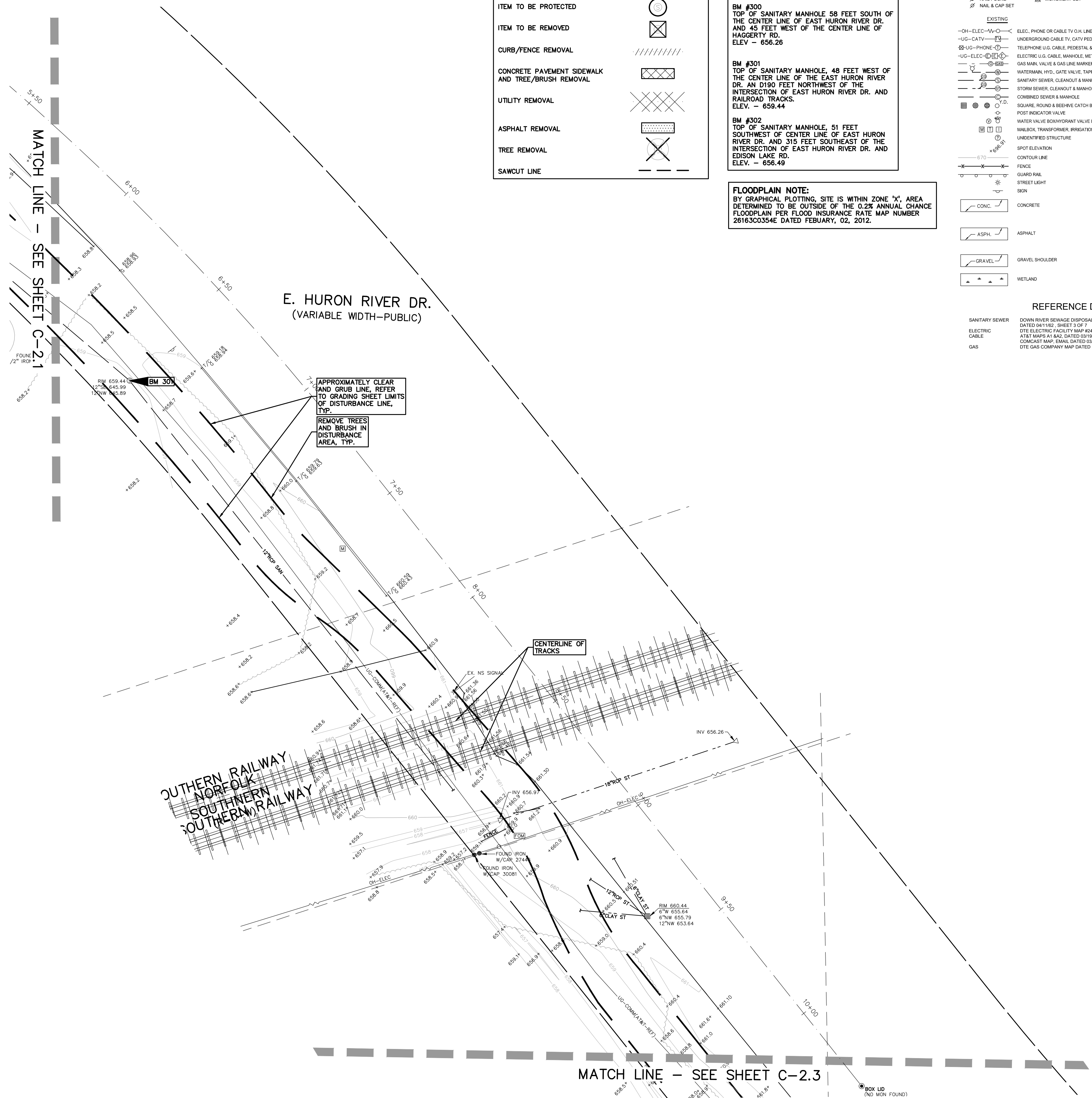
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C-2.1

NOT FOR CONSTRUCTION



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**DEMOLITION LEGEND:**

ITEM TO BE PROTECTED	
ITEM TO BE REMOVED	
CURB/FENCE REMOVAL	
CONCRETE PAVEMENT SIDEWALK AND TREE/BRUSH REMOVAL	
UTILITY REMOVAL	
ASPHALT REMOVAL	
TREE REMOVAL	
SAWCUT LINE	

**BENCHMARKS**  
(GPS DERIVED - NAVD 88)

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TOP OF SANITARY MANHOLE, 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD.  
ELEV. - 656.26

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ELEV. - 659.44

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ELEV. - 656.49

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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 26163C0354E DATED FEBRUARY, 02, 2012.

**LEGEND**

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

**EXISTING**

	ELEC. PHONE OR CABLE TV, O.H. LINE, POLE & GUY WIRE
	UNDERGROUND CABLE TV, CATV PEDESTAL
	TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
	ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
	GAS MAIN, VALVE & GAS LINE, MARKER
	WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE
	SANITARY SEWER, CLEANOUT & MANHOLE
	STORM SEWER, CLEANOUT & MANHOLE
	COMBINED SEWER & MANHOLE
	SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
	POST INDICATOR VALVE
	WATER VALVE, BOX, HYDRANT VALVE BOX, SERVICE SHUTOFF
	MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE
	UNIDENTIFIED STRUCTURE
	SPOT ELEVATION
	CONTOUR LINE
	FENCE
	GUARD RAIL
	STREET LIGHT
	SIGN

**PROPOSED**

	CONCRETE
	ASPHALT
	GRAVEL SHOULDER
	WETLAND

**REFERENCE DRAWINGS**

SANITARY SEWER	DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO. 15, SA-6-1, DATED 04/11/02, SHEET 3 OF 7
ELECTRIC	DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020
CABLE	AT&T MAPS A1 A&2, DATED 03/19/2020
GAS	CONCAST MAP, ISRAEL, DATED 03/19/2020
	DTE GAS COMPANY MAP DATED 03/23/2020

**PEA GROUP**  
t: 844.813.2949  
www.peagroup.com

**NORTH**

0 10 20 40  
SCALE: 1" = 20'

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**CLIENT**  
**VAN BUREN TOWNSHIP**  
46425 TYLER ROAD  
VAN BUREN, MICHIGAN

**VAN BUREN**  
CHARTER TOWNSHIP

**PROJECT TITLE**  
**IRON BELLE TRAIL - SECTION J**  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN

**Michigan's Iron Belle Trail**

**REVISIONS**

ORIGINAL ISSUE	12/2/20
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/222
REVISION PER TWP	1/24/24

**ORIGINAL ISSUE DATE:**  
DECEMBER 3, 2020

**DRAWING TITLE**  
**TOPOGRAPHICAL SURVEY & DEMOLITION SHEET**

**PEA JOB NO.** 2020-0095  
**P.M.** JTS  
**DN.** JMR  
**DES.** JMR  
**DRAWING NUMBER:**

**TRAIL PLAN-E. HURON RIVER DR.**  
STA 5+62 TO STA 10+00

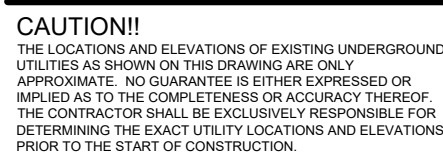
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**C-2.2**









CLIENT

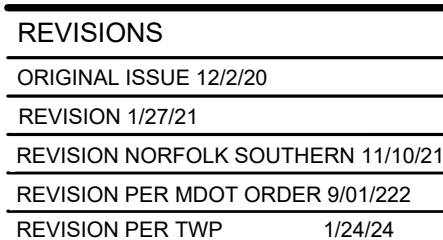
**VAN BUREN TOWNSHIP**  
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PROJECT TITLE

**IRON BELLE TRAIL -  
SECTION 1**

**SECTION 3**  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN

ORIGINAL ISSUE DATE:  
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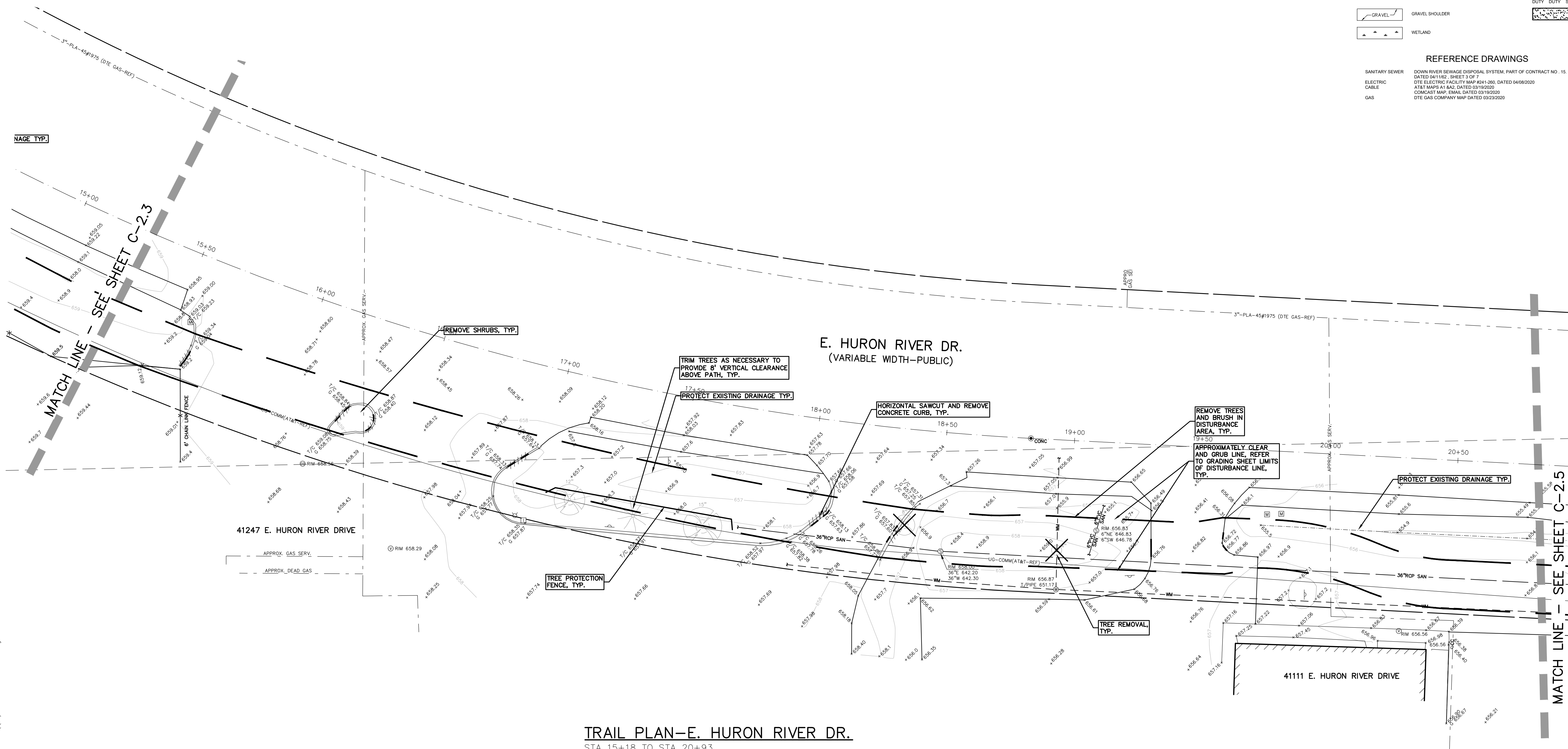
DRAWING TITLE

**TOPOGRAPHICAL  
SURVEY &  
DEMOLITION  
SHEET**

PEA JOB NO.	2020-0095
P.M.	JTS
DN.	JMF
DES.	JMF
DRAWING NUMBER:	

**NOT FOR CONSTRUCTION**

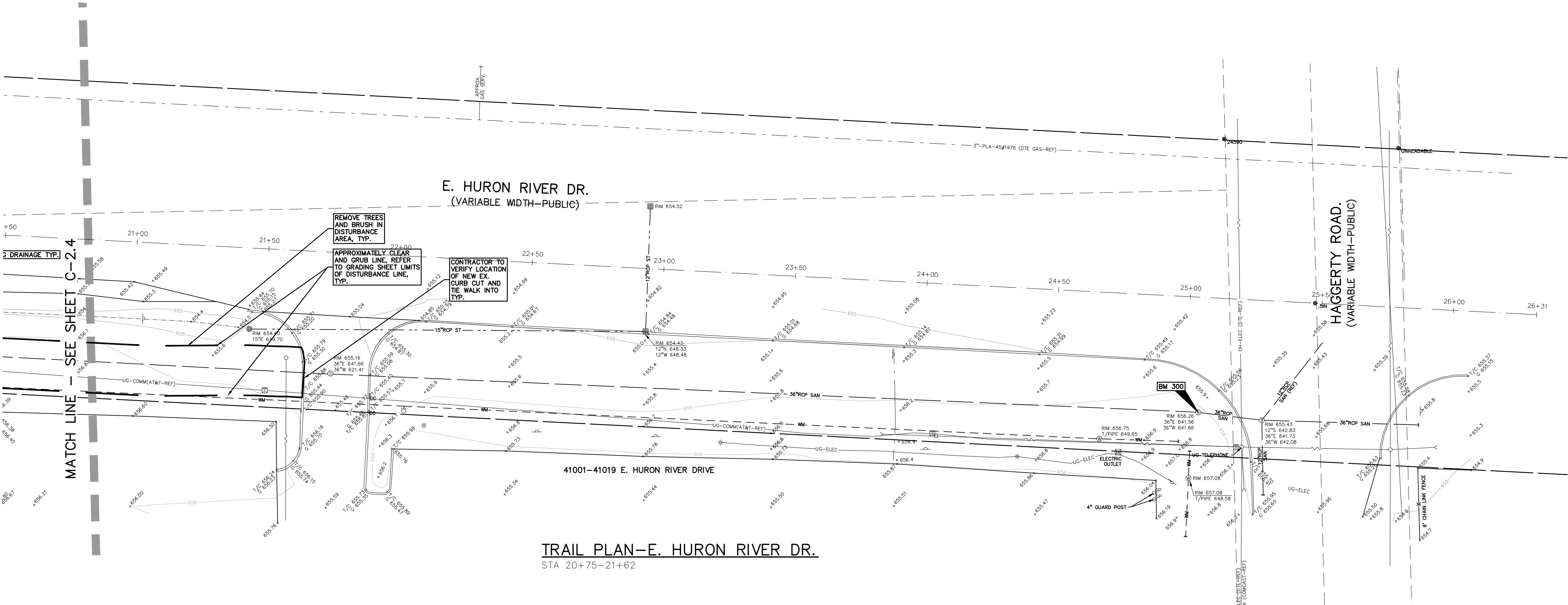
## C-2.4



TRAIL PLAN—E. HURON RIVER DR.  
STA 15+18 TO STA 20+93

S:\PROJECTS\2020-0095 IBT VAN BUREN-\DWG\CONSTRUCTION\0(2.0) - TOPO DEMO-IBT 20-0095.dwg





**DEMOLITION LEGEND:**

ITEM TO BE PROTECTED: [Symbol]

ITEM TO BE REMOVED: [Symbol]

CURB/FENCE REMOVAL: [Symbol]

CONCRETE PAVEMENT SIDEWALK AND TREE/BRUSH REMOVAL: [Symbol]

UTILITY REMOVAL: [Symbol]

ASPHALT REMOVAL: [Symbol]

TREE REMOVAL: [Symbol]

SAWCUT LINE: [Symbol]

**BENCHMARKS**  
(GPS DERIVED - NAVD 88)

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**LEGEND**

**EXISTING**

IRON FOUND, IRON SET, NAIL FOUND, NAIL & CAP SET, BRASS PLUG SET, MONUMENT FOUND, MONUMENT SET, ELEC. PHONE OR CABLE TV, OH. LINE, POLE & GUY WIRE, UNDERGROUND CABLE TV, CATV PEDESTAL, TELEPHONE U.G. CABLE, TELEPHONE U.G. CABLE, MANHOLE, METER & HANDHOLE, ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE, GAS MAIN, VALVE & GAS LINE WARMER, WATERMANN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE, SANITARY SEWER, CLEANOUT & MANHOLE, STORM SEWER, CLEANOUT & MANHOLE, COMBINED SEWER & MANHOLE, SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN, POST INDICATOR VALVE, WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF, MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE, UNIDENTIFIED STRUCTURE, SPOT ELEVATION, CONTOUR LINE, FENCE, GUARD RAIL, STREET LIGHT, SIGN, CONC., ASPH., GRAVEL, WETLAND.

**PROPOSED**

SEC. CORNER FOUND, RECORDED, MEASURED, CALCULATED, 31D HEAVY DUTY, 31D HEAVY DUTY ONLY, 31D HEAVY DEEP DUTY, 31D HEAVY DEEP DUTY STRENGTH.

**REFERENCE DRAWINGS**

SANITARY SEWER, ELECTRIC, CABLE, GAS, DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO. 15, SA-6-1, DATED 04/11/02, SHEET 3 OF 7, DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020, AT&T MAPS A1 A&2, DATED 03/19/2020, COMCAST MAP, ISRAEL, DATED 03/19/2020, DTE GAS COMPANY MAP DATED 03/23/2020.

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**VAN BUREN CHARTER TOWNSHIP**

**PROJECT TITLE**  
**IRON BELLE TRAIL - SECTION J**  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN

**REVISIONS**

REVISION	DATE
ORIGINAL ISSUE	12/2/20
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/22
REVISION PER TWP	1/24/24

**ORIGINAL ISSUE DATE:**  
DECEMBER 3, 2020

**DRAWING TITLE**  
**TOPOGRAPHICAL SURVEY & DEMOLITION SHEET**

**PEA JOB NO.** 2020-0095  
**P.M.** JTS  
**DN.** JMR  
**DES.** JMR  
**DRAWING NUMBER:** C-2.5







DRAWING TITLE

**DIMENSION AND  
PAVING SHEET**

C-3.2



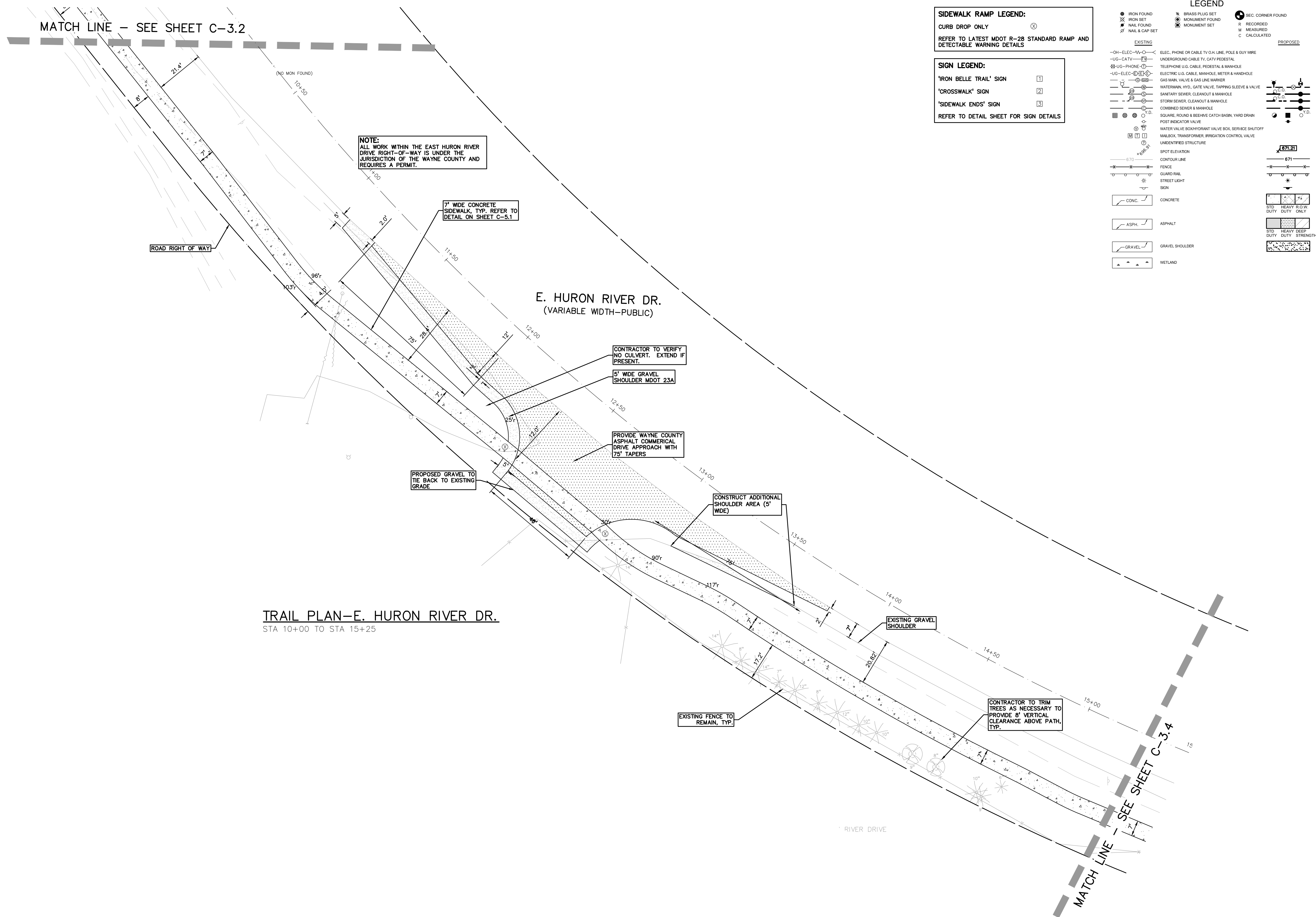


REVISIONS	
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REVISION	1/27/21
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/222
REVISION PER TWP	1/24/24

DRAWING TITLE

**DIMENSION AND  
PAVING SHEET**

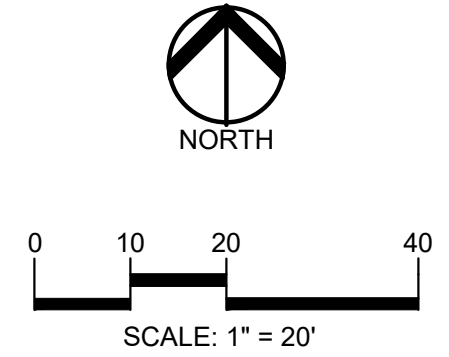
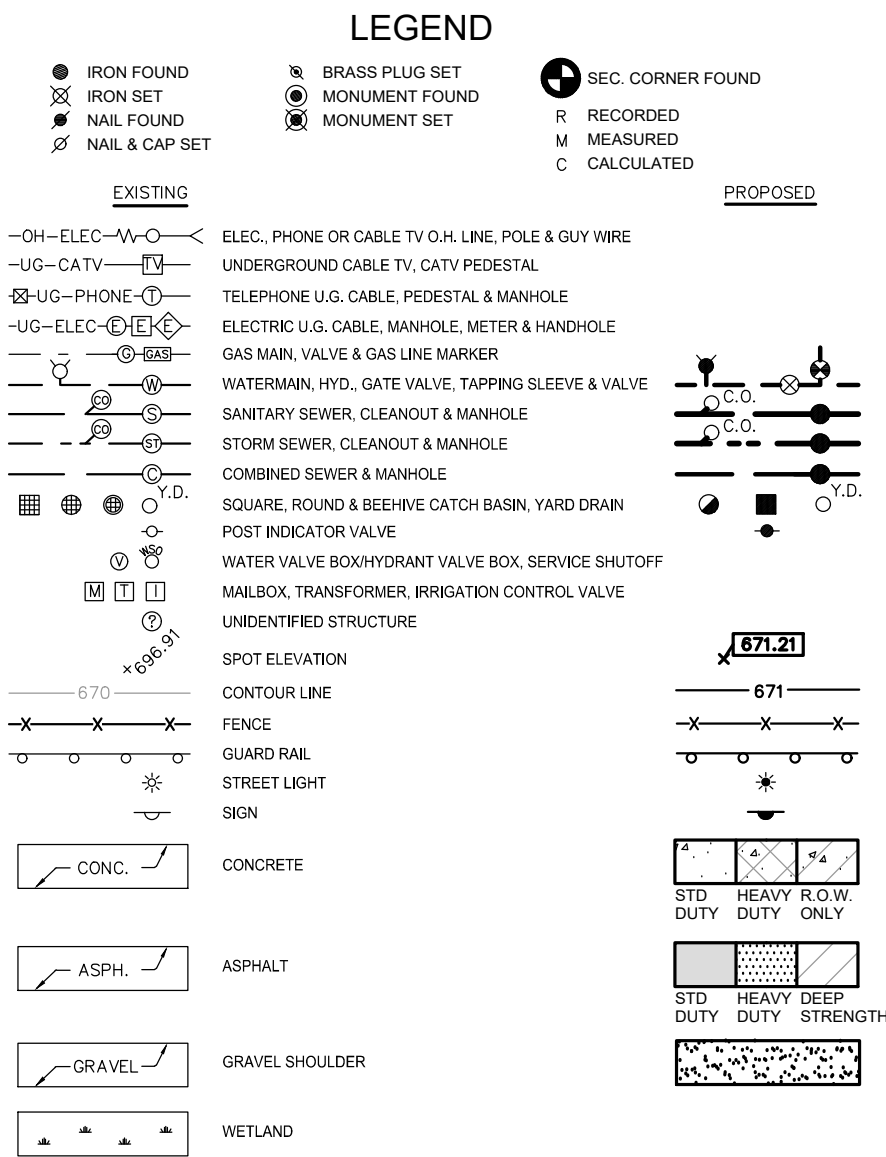
PEA JOB NO.	2020-009
P.M.	J
DN.	JM
DES.	JM
DRAWING NUMBER:	



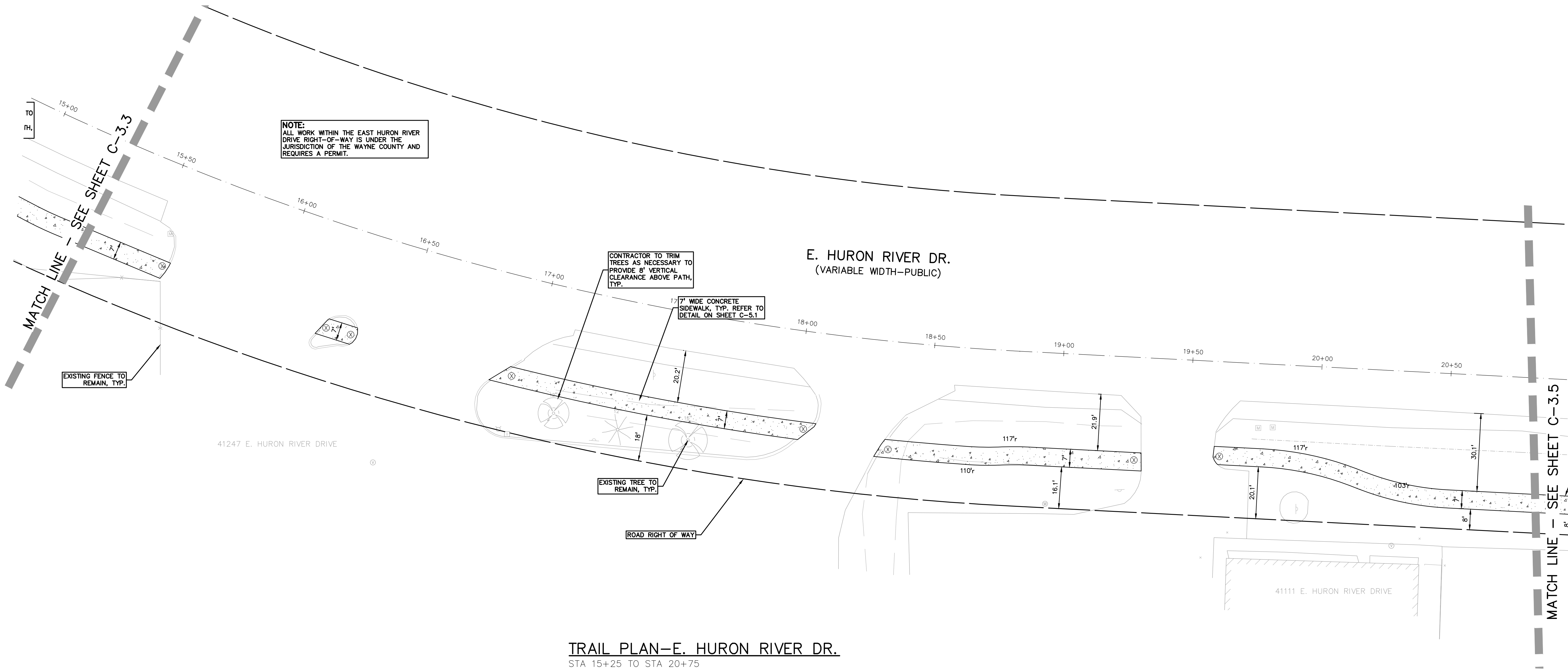


**SIDEWALK RAMP LEGEND:**  
CURB DROP ONLY  
REFER TO LATEST MDOT R-28 STANDARD RAMP AND  
DETECTABLE WARNING DETAILS

**SIGN LEGEND:**  
'IRON BELLE TRAIL' SIGN  
'CROSSWALK' SIGN  
'SIDEWALK ENDS' SIGN  
REFER TO DETAIL SHEET FOR SIGN DETAILS



**CAUTION!!**  
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CLIENT  
**VAN BUREN TOWNSHIP**  
48425 TYLER ROAD  
VAN BUREN, MICHIGAN

**VAN BUREN**  
CHARTER TOWNSHIP

PROJECT TITLE  
**IRON BELLE TRAIL - SECTION J**  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN



**REVISIONS**

ORIGINAL ISSUE	12/2/20
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/222
REVISION PER TWP	1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

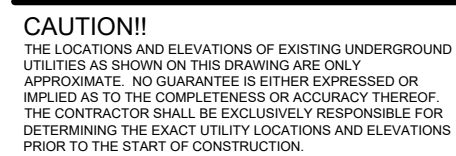
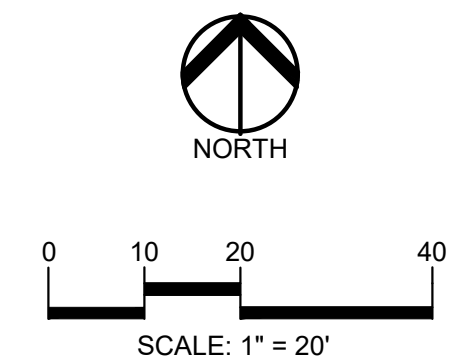
DRAWING TITLE  
**DIMENSION AND PAVING SHEET**

PEA JOB NO. 2020-0095  
P.M. JTS  
DN. JMR  
DES. JMR  
DRAWING NUMBER:

NOT FOR CONSTRUCTION

C-3.4





ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

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DRAWING TITLE  
**DIMENSION AND  
PAVING SHEET**

# C-3.5





EROSION CONTROL QUANTITIES:		
SILT FENCE	2225	LF
INLET FILTERS	3	EA.
PERMANENT SEEDING	2880	S.Y.

#### SYMBOLS: GRADING

PROPOSED SPOT ELEVATION:  
TYPICALLY TOP OF PAVEMENT IN PAVED  
AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE

#### ABBREVIATIONS:

T/C = TOP OF CURB  
G = GUTTER GRADE  
T/P = TOP OF PAVEMENT  
T/S = TOP OF SIDEWALK  
T/W = TOP OF WALL  
B/W = BOTTOM OF WALL  
F.G. = FINISH GRADE  
R.M. = RIM ELEVATION

#### 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.

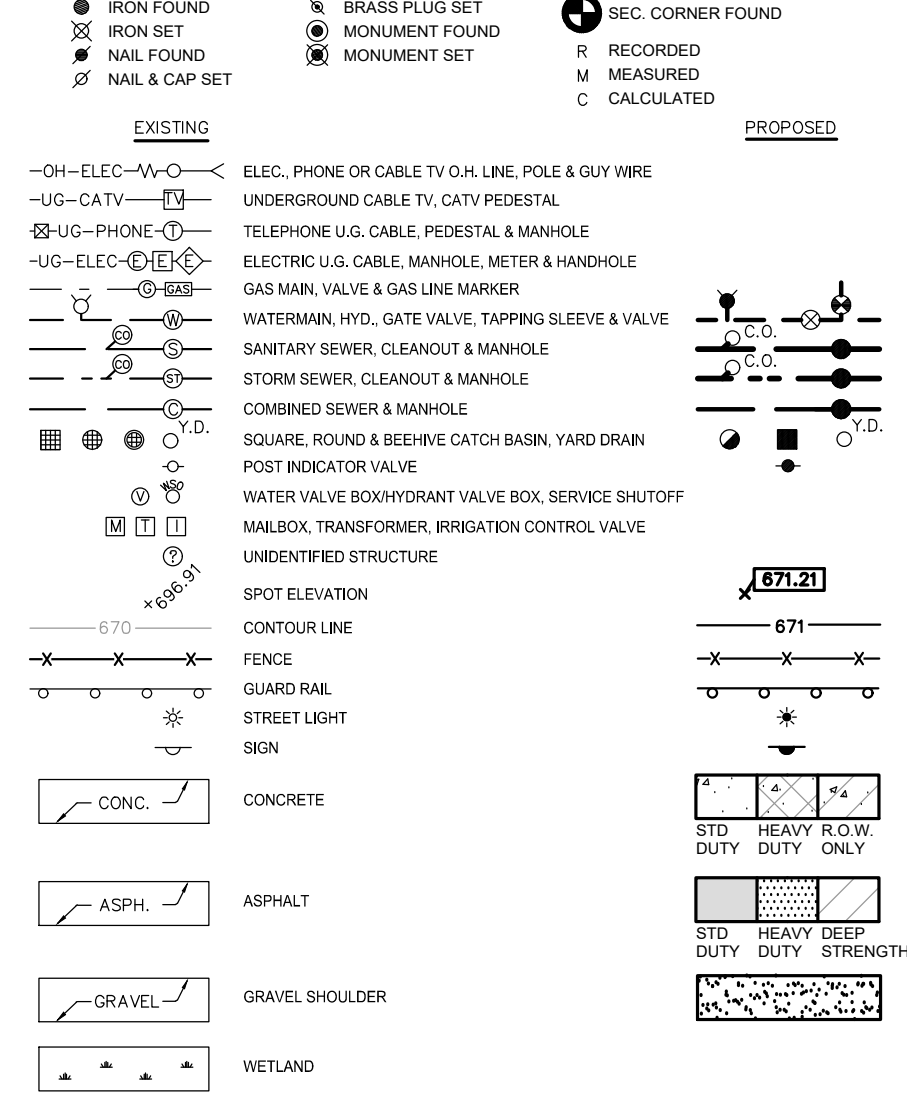
#### BENCHMARKS

(GPS DERIVED - NAVD 88)  
  
BM #300  
TOP OF SANITARY MANHOLE 58 FEET SOUTH OF  
THE CENTER LINE OF EAST HURON RIVER DR.  
AND 45 FEET WEST OF THE CENTER LINE OF  
HAGGERTY RD.  
ELEV. - 656.26

BM #301  
TOP OF SANITARY MANHOLE, 48 FEET WEST OF  
THE CENTER LINE OF THE EAST HURON RIVER  
DR. AN D190 FEET NORTHWEST OF THE  
INTERSECTION OF EAST HURON RIVER DR. AND  
RAILROAD TRACKS.  
ELEV. - 659.44

BM #302  
TOP OF SANITARY MANHOLE, 51 FEET  
SOUTHWEST OF CENTER LINE OF EAST HURON  
RIVER DR. AND 315 FEET SOUTHEAST OF THE  
INTERSECTION OF EAST HURON RIVER DR. AND  
EDISON LAKE RD.  
ELEV. - 656.49

#### LEGEND



#### REFERENCE DRAWINGS

SANITARY SEWER  
ELECTRIC  
CABLE  
GAS  
DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO. 15, SA-6-1,  
DATED 04/11/02, SHEET 3 OF 7  
DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020  
ATAI MAPS A1 A&2, DATED 03/19/2020  
CONCAST MAP, SMALL, DATED 03/19/2020  
DTE GAS COMPANY MAP DATED 03/23/2020

### TRAIL PLAN-E. HURON RIVER DR.

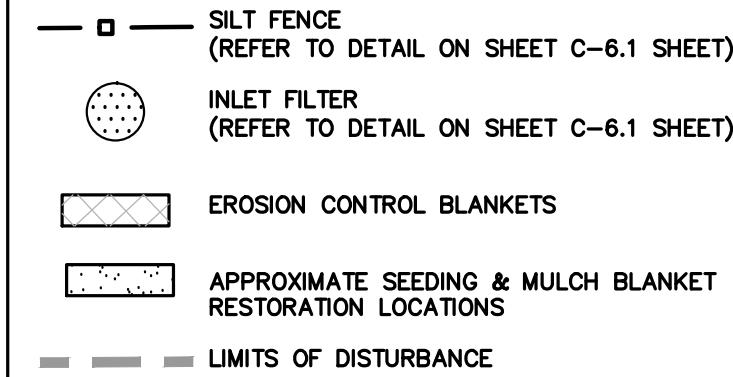
STA 0+00 TO STA 5+62

#### GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

- CONTRACTOR TO 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 WAYNE COUNTY PRIOR TO CONSTRUCTION.
- REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
- ALL SLOPE EXCEEDING 1:4 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.
- ALL DISTURBED AREAS OUTSIDE OF THE RIGHT-OF-WAY SHALL BE SEEDED AND MULCHED OR SODDED. 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 PROOF ROLLED 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.
- 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.
- MINOR ADJUSTMENTS TO STRUCTURE COVERS (<6") IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

#### SYMBOLS: EROSION CONTROL



#### STREET CLEANING SCHEDULE

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

#### QUANTITIES THIS SHEET:

AREA OF DISTURBANCE	1.1	AC
TOPSOIL SURFACE, FURNISH LM 3"	85	CYD
TOPSOIL SURFACE, PLACE	2515	SYD
SEED AND MULCH	2515	SYD
EROSION CONTROL, SILT FENCE	251	LF
EROSION CONTROL, INLET FILTER	2	EA

#### SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

THE CONTRACTOR SHALL CONTACT WAYNE COUNTY SOIL EROSION OFFICE 48 HOURS BEFORE WORK IS TO BEGIN (734-326-3936).

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.

#### 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 SITE AND AFFECTED STORM SEWER SYSTEM.
- ALL TEMPORARY SESC DEVICES MAY BE REMOVED AFTER CERTIFICATE OF COMPLETION.

E. HURON RIVER DR.  
(VARIABLE WIDTH-PUBLIC)

PEA  
GROUP

t: 844.813.2949  
www.peagroup.com



0 10 20 40  
SCALE: 1" = 20'



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CLIENT

VAN BUREN TOWNSHIP  
46425 TYLER ROAD  
VAN BUREN, MICHIGAN



VAN BUREN  
CHARTER TOWNSHIP

PROJECT TITLE

IRON BELLE TRAIL -  
SECTION J  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN



#### REVISIONS

ORIGINAL ISSUE	12/2/20
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/222
REVISION PER TWP	1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

DRAWING TITLE  
**GRADING SHEET**

PEA JOB NO. 2020-0095

P.M. JTS

DN. JMR

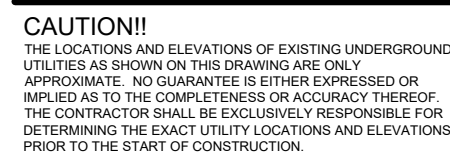
DES. JMR

DRAWING NUMBER:

NOT FOR CONSTRUCTION

C-4.1

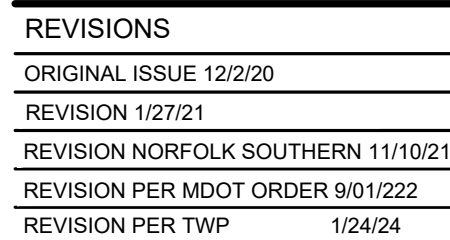




**VAN BUREN TOWNSHIP**  
46425 TYLER ROAD  
VAN BUREN, MICHIGAN



**IRON BELLE TRAIL -  
SECTION 1**



DRAWING TITLE

**GRADING SHEET**

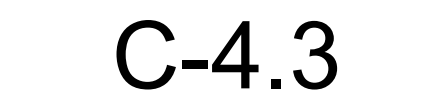
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## C-4.2



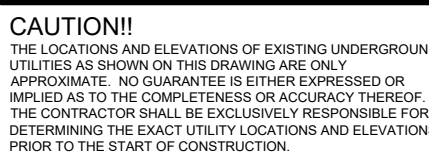
**NOT FOR CONSTRUCTION**





## C-4.3





PROJECT TITLE



## REVISIONS

ORIGINAL ISSUE 12/2/20	
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN 11/10/2	
REVISION PER MDOT ORDER 9/01/222	
REVISION PER TWP	1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

DRAWING TITLE  
**GRADING SHEET**

REA IOR NO 3030 0000

PM JT

DN. JMI

DES. JMI

DRAWING NUMBER:

**IRON FOUND**  
 IRON SET  
 NAIL FOUND  
 NAIL & CAP SET

**BRASS PLUG/SET**  
 MONUMENT FOUND  
 MONUMENT SET

**SCORNER FOUND**  
 RECORDED  
 MEASURED  
 CALCULATED

**EXISTING**

**PROPOSED**

**CONC.**

**ASPH.**

**GRAVEL**

**WETLAND**

## REFERENCE DRAWINGS

SANITARY SEWER	DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO. 15. SA-6-1 DATED 04/11/62, SHEET 3 OF 7
ELECTRIC CABLE	DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020 AT&T MAPS A1 &A2, DATED 03/19/2020 COMCAST MAP, EMAIL DATED 03/19/2020
GAS	DTE GAS COMPANY MAP DATED 03/23/2020

**SYMBOLS: GRADING**

PROPOSED SPOT ELEVATION:  
TYPICALLY TOP OF PAVEMENT IN PAVED  
AREAS, GUTTER GRADE IN CURB LINES. \* 622.50

PROPOSED CONTOUR LINE

**ABBREVIATIONS:**  
T/C = TOP OF CURB  
G = GUTTER GRADE  
T/P = TOP OF PAVEMENT  
T/S = TOP OF SIDEWALK  
T/W = TOP OF WALL  
B/W = BOTTOM OF WALL  
F.G. = FINISH GRADE  
RIM = RIM ELEVATION

**EARTHWORK BALANCING NOTE:**

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**SYMBOLS: EROSION CONTROL**

— □ — SILT FENCE  
(REFER TO DETAIL ON SHEET C-6.1 SHEET)

 INLET FILTER  
(REFER TO DETAIL ON SHEET C-6.1 SHEET)

 EROSION CONTROL BLANKETS

APPROXIMATE SEEDING RESTORATION LOCATIONS

— — — LIMITS OF DISTURBANCE

## BENCHMARKS

(GPS DERIVED - NAVD 88)

BM #300  
TOP OF SANITARY MANHOLE 58 FEET SOUTH OF  
THE CENTER LINE OF EAST HURON RIVER DR.  
AND 45 FEET WEST OF THE CENTER LINE OF  
HAGGERTY RD.  
ELEV - 656.26

BM #301  
TOP OF SANITARY MANHOLE, 48 FEET WEST OF  
THE CENTER LINE OF THE EAST HURON RIVER  
DR. AN D190 FEET NORTHWEST OF THE  
INTERSECTION OF EAST HURON RIVER DR. AND  
RAILROAD TRACKS.  
ELEV. - 659.44

BM #302  
TOP OF SANITARY MANHOLE, 51 FEET  
SOUTHWEST OF CENTER LINE OF EAST HURON  
RIVER DR. AND 315 FEET SOUTHEAST OF THE  
INTERSECTION OF EAST HURON RIVER DR. AND  
EDISON LAKE RD.  
ELEV. - 656.49

TRAIL PLAN-E. HURON RIVER DR.

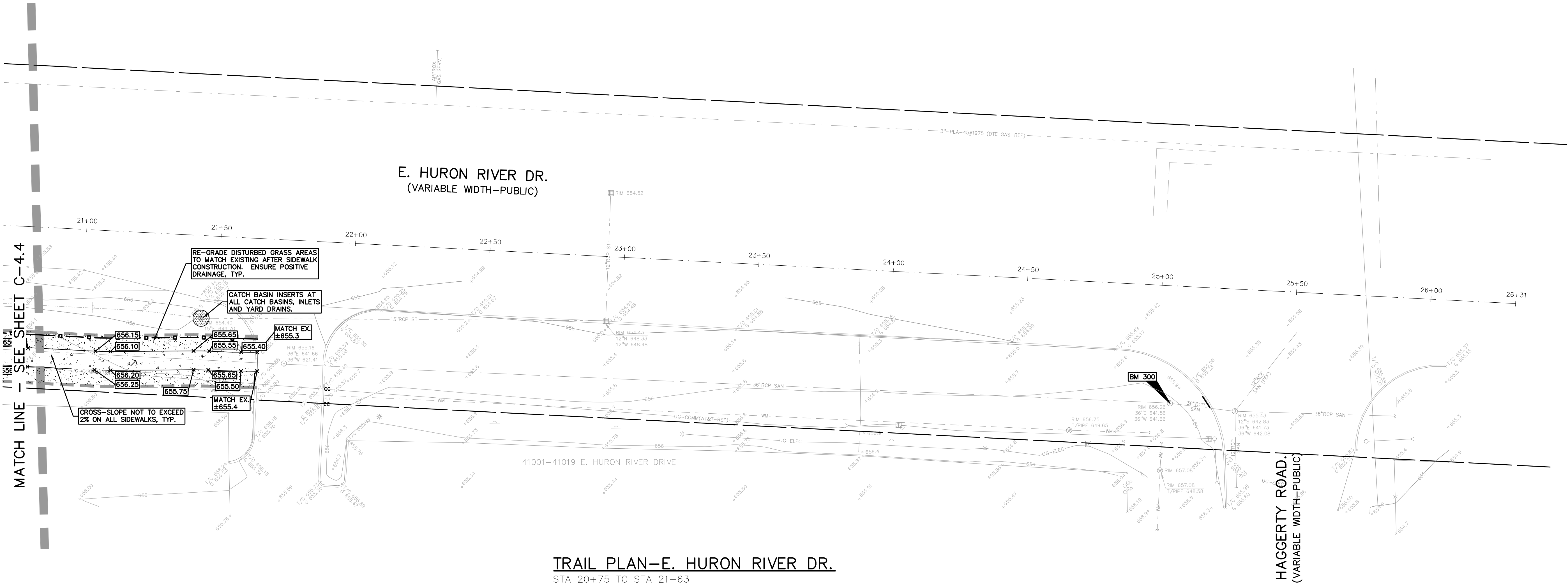
STA 15+25 TO STA 20+75

**NOT FOR CONSTRUCTION**

C-4.4



S:\PROJECTS\2020-2022-0095-81 VAN BUREN-JMW\CONSTRUCTION\24.0 - GRACE-BT 20-0095.dwg



**SYMBOLS: GRADING**

**PROPOSED SPOT ELEVATION:**  
TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

**PROPOSED CONTOUR LINE** — 922 —

**ABBREVIATIONS:**  
T/C = TOP OF CURB  
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**EARTHWORK BALANCING NOTE:**

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**SYMBOLS: EROSION CONTROL**

— □ — SILT FENCE  
(REFER TO DETAIL ON SHEET C-6.1 SHEET)

● INLET FILTER  
(REFER TO DETAIL ON SHEET C-6.1 SHEET)

▨ EROSION CONTROL BLANKETS

▨ APPROXIMATE SEEDING RESTORATION LOCATIONS

— — — LIMITS OF DISTURBANCE

**BENCHMARKS**  
(GPS DERIVED — NAVD 88)

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TOP OF SANITARY MANHOLE 58 FEET SOUTH OF THE CENTER LINE OF EAST HURON RIVER DR. AND 45 FEET WEST OF THE CENTER LINE OF HAGGERTY RD.  
ELEV. — 656.26

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TOP OF SANITARY MANHOLE, 48 FEET WEST OF THE CENTER LINE OF THE EAST HURON RIVER DR. AN D190 FEET NORTHWEST OF THE INTERSECTION OF EAST HURON RIVER DR. AND RAILROAD TRACKS.  
ELEV. — 659.44

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TOP OF SANITARY MANHOLE, 51 FEET SOUTHWEST OF CENTER LINE OF EAST HURON RIVER DR. AND 315 FEET SOUTHEAST OF THE INTERSECTION OF EAST HURON RIVER DR. AND EDISON LAKE RD.  
ELEV. — 656.49

**LEGEND**

**EXISTING**

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND
- MONUMENT SET
- ELEC. PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE
- UNDERGROUND CABLE TV, CATV PEDESTAL
- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE
- ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE
- GAS MAIN, VALVE & GAS LINE WARDER
- WATERMAIN, HYD. GATE VALVE, TAPPING SLEEVE & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF
- MARLBX, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SIGN
- CONC.
- CONCRETE
- ASPH.
- ASPHALT
- GRAVEL
- GRAVEL SHOULDER
- WETLAND

**PROPOSED**

- SEC. CORNER FOUND
- R RECORDED
- M MEASURED
- C CALCULATED
- 31D HEAVY FLOW DUTY ONLY
- 31D HEAVY DEEP DUTY STRENGTH

**REFERENCE DRAWINGS**

DOWN RIVER SEWAGE DISPOSAL SYSTEM, PART OF CONTRACT NO. 15, SA-6-1, DATED 04/11/02, SHEET 3 OF 7  
DTE ELECTRIC FACILITY MAP #241-260, DATED 04/08/2020  
ATAF MAPS A1 A&2, DATED 03/19/2020  
CONCAST MAP, ISMAIL, DATED 03/19/2020  
DTE GAS COMPANY MAP DATED 03/23/2020

SANITARY SEWER  
ELECTRIC  
CABLE  
GAS

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

**CAUTION!!**  
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**CLIENT**  
**VAN BUREN TOWNSHIP**  
48425 TYLER ROAD  
VAN BUREN, MICHIGAN

**VAN BUREN CHARTER TOWNSHIP**

**PROJECT TITLE**  
**IRON BELLE TRAIL - SECTION J**  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN

**REVISIONS**

ORIGINAL ISSUE	12/2/20
REVISION 1/27/21	
REVISION NORFOLK SOUTHERN	11/10/21
REVISION PER MDOT ORDER	9/01/222
REVISION PER TWP	1/24/24

**ORIGINAL ISSUE DATE:**  
DECEMBER 3, 2020

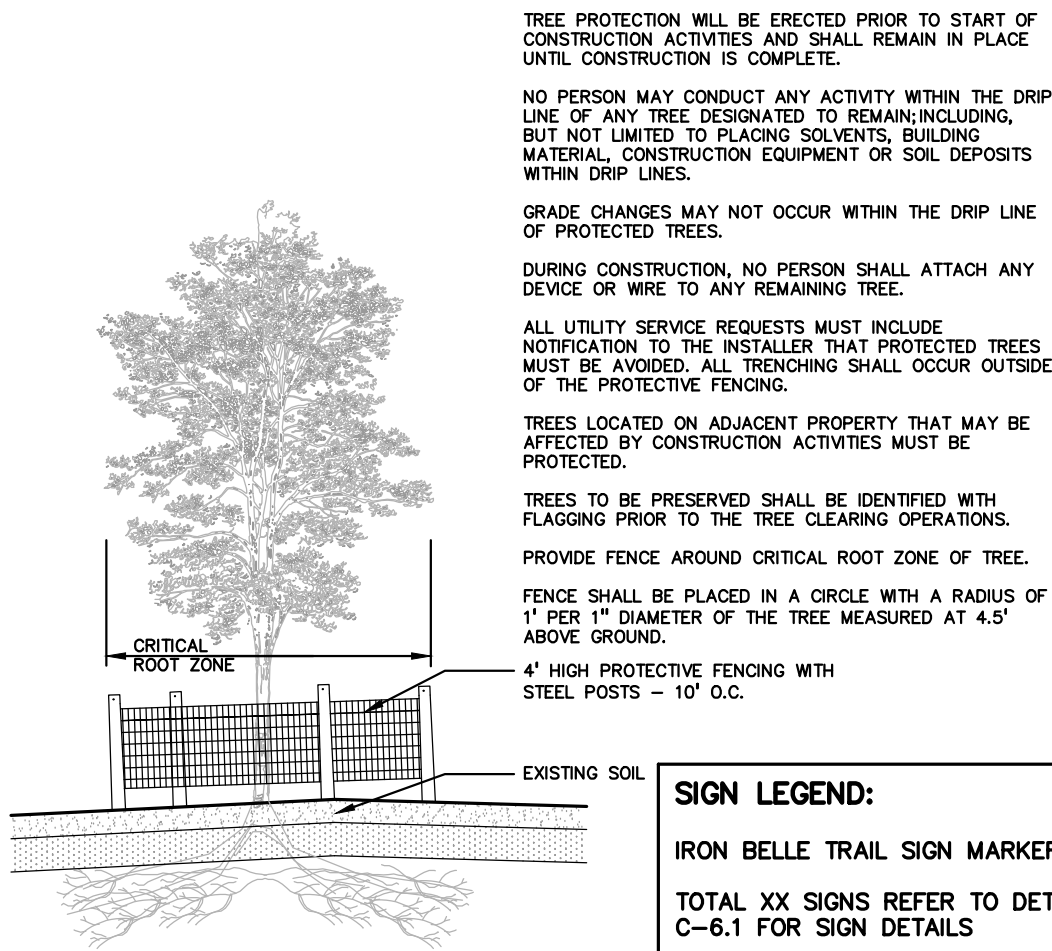
**DRAWING TITLE**  
**GRADING SHEET**

**PEA JOB NO.** 2020-0095  
**P.M.** JTS  
**DN.** JMR  
**DES.** JMR  
**DRAWING NUMBER:**

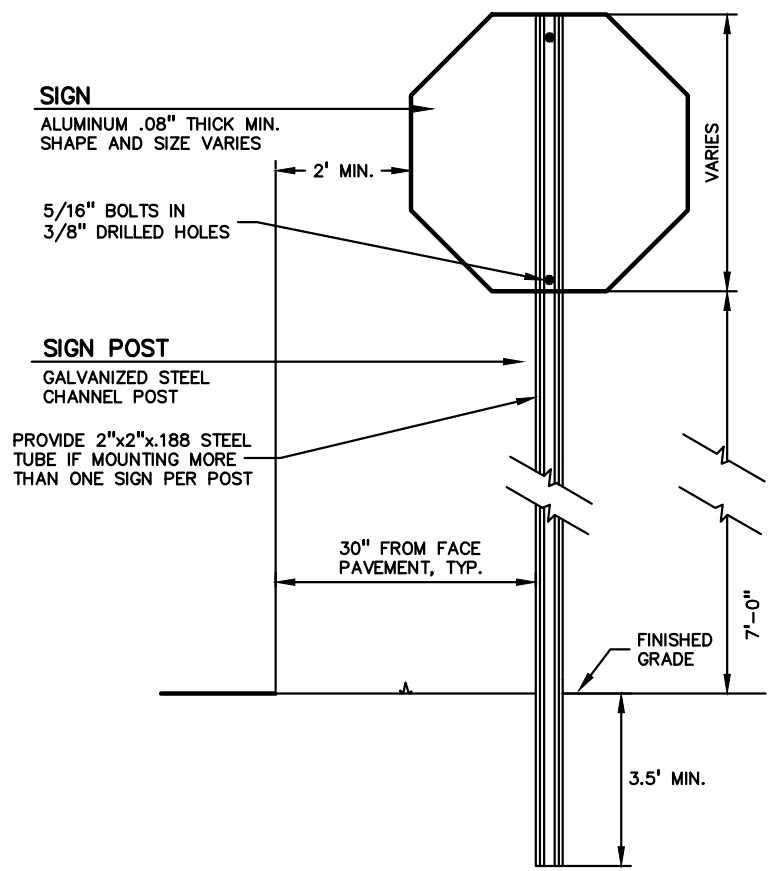
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NOT FOR CONSTRUCTION

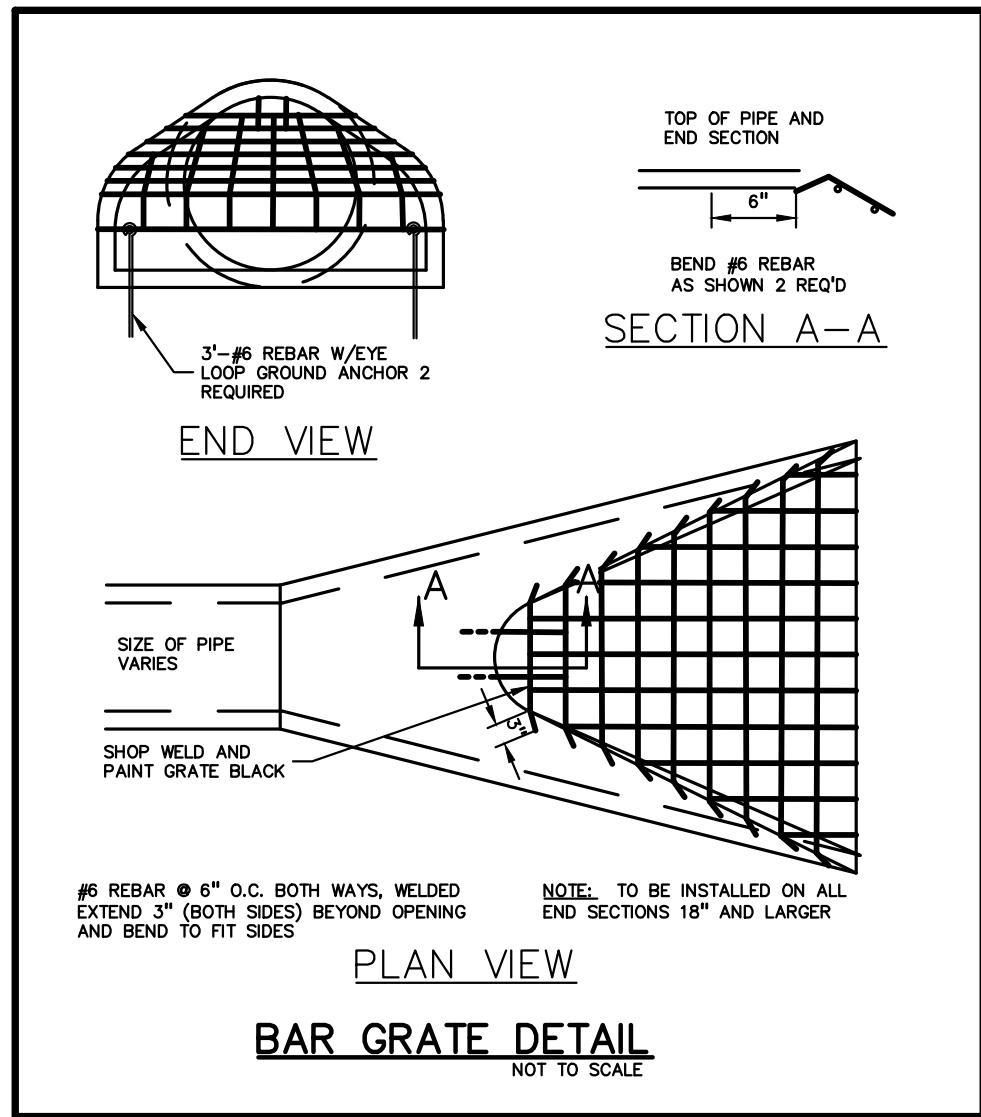
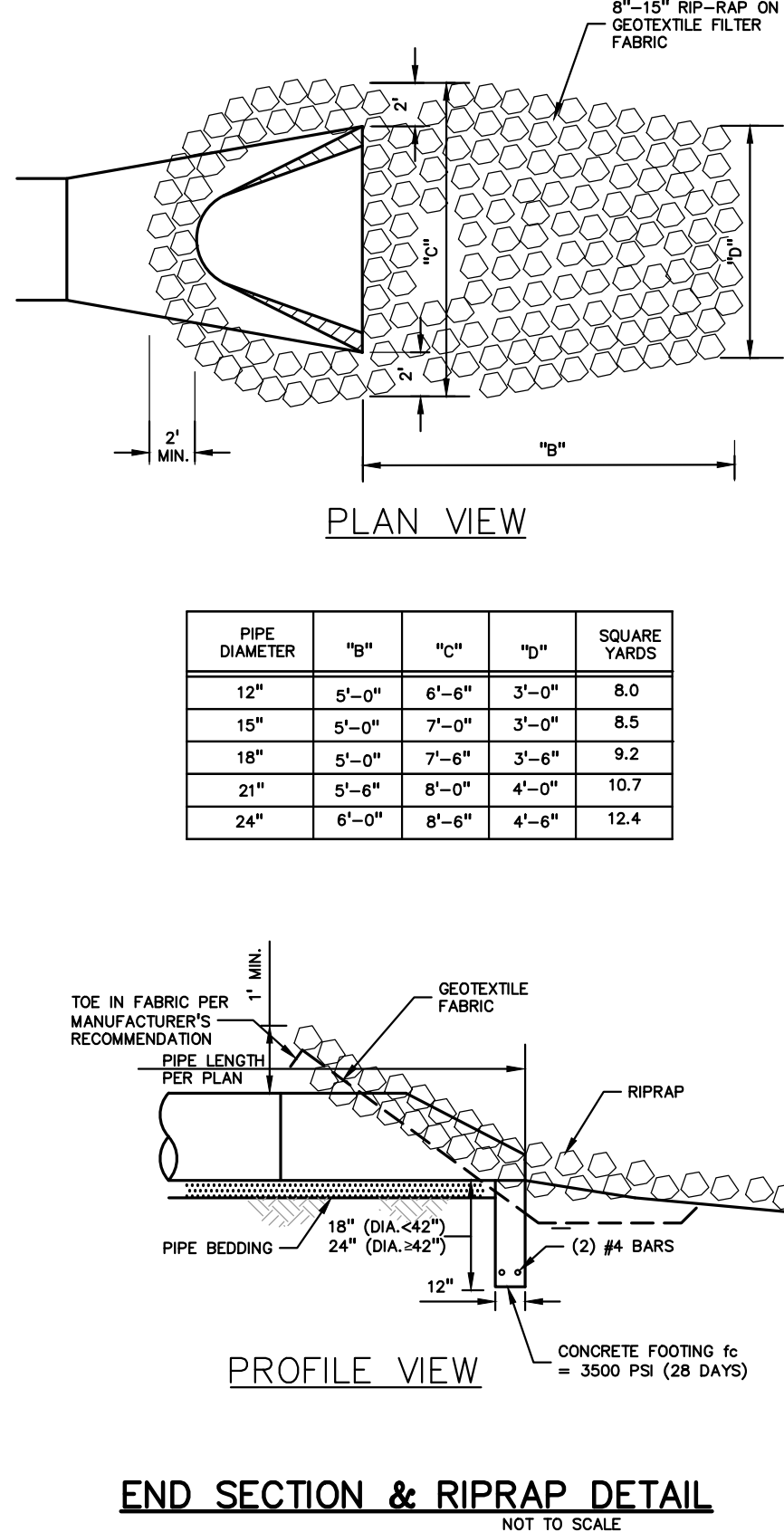
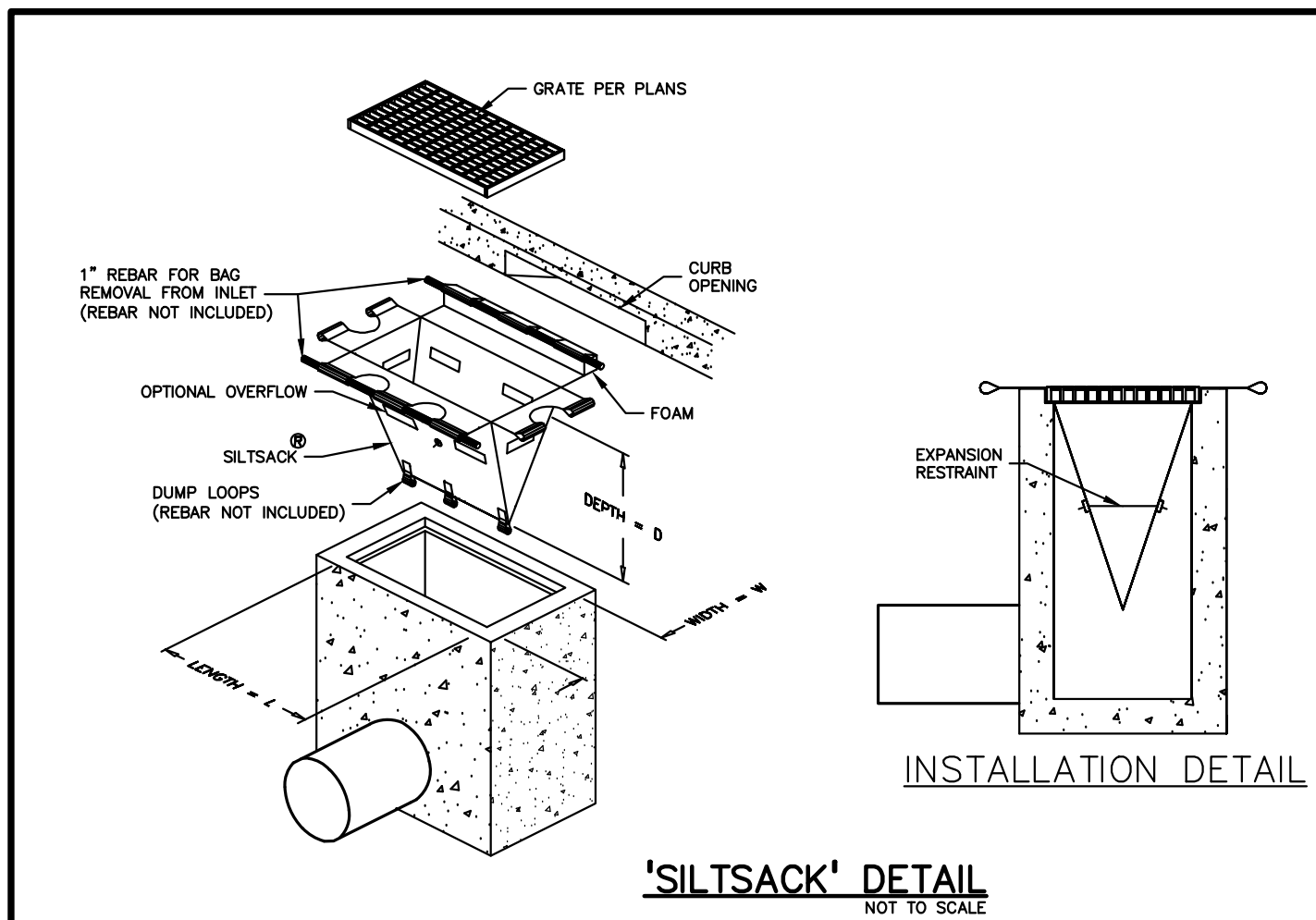
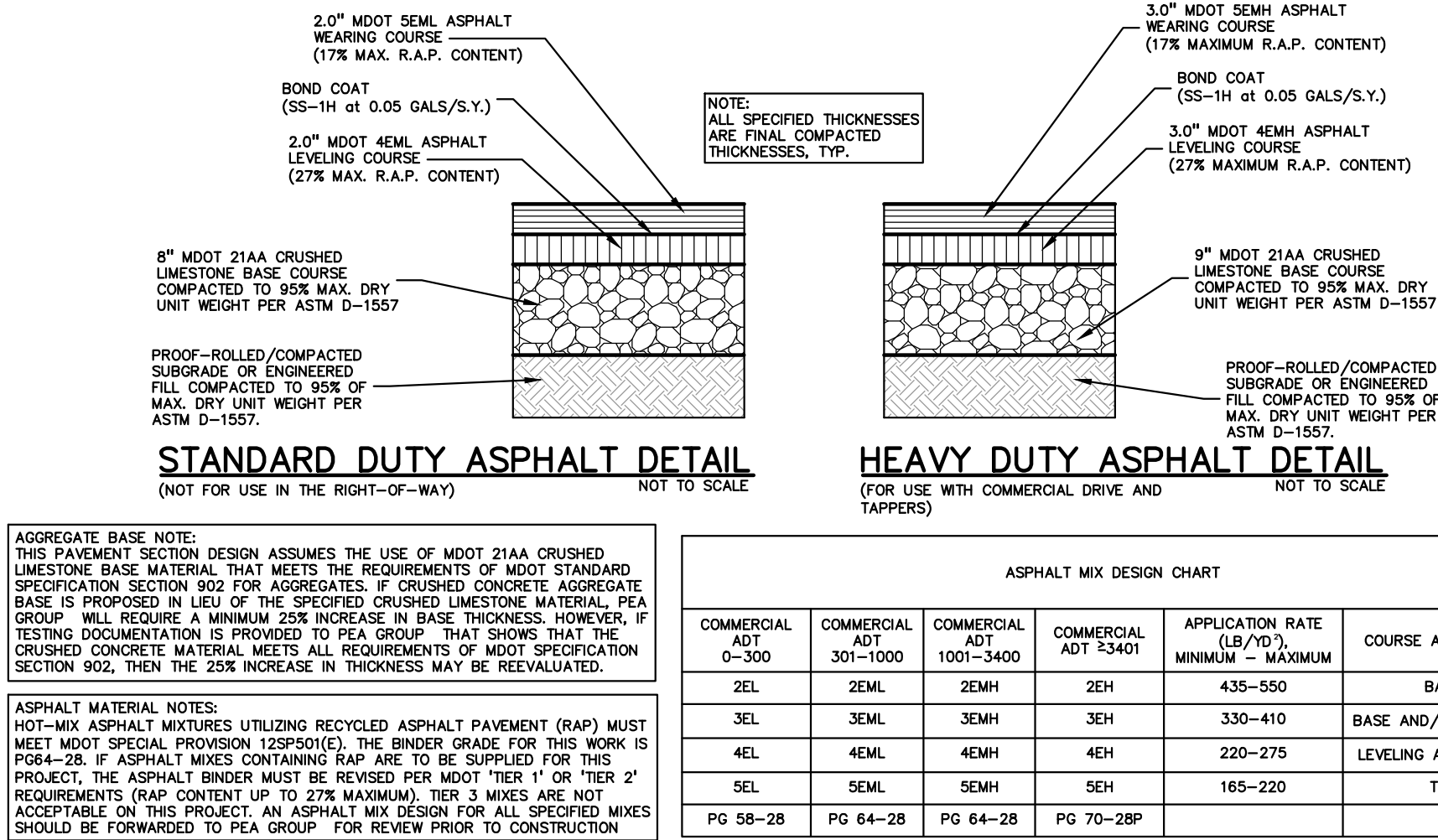
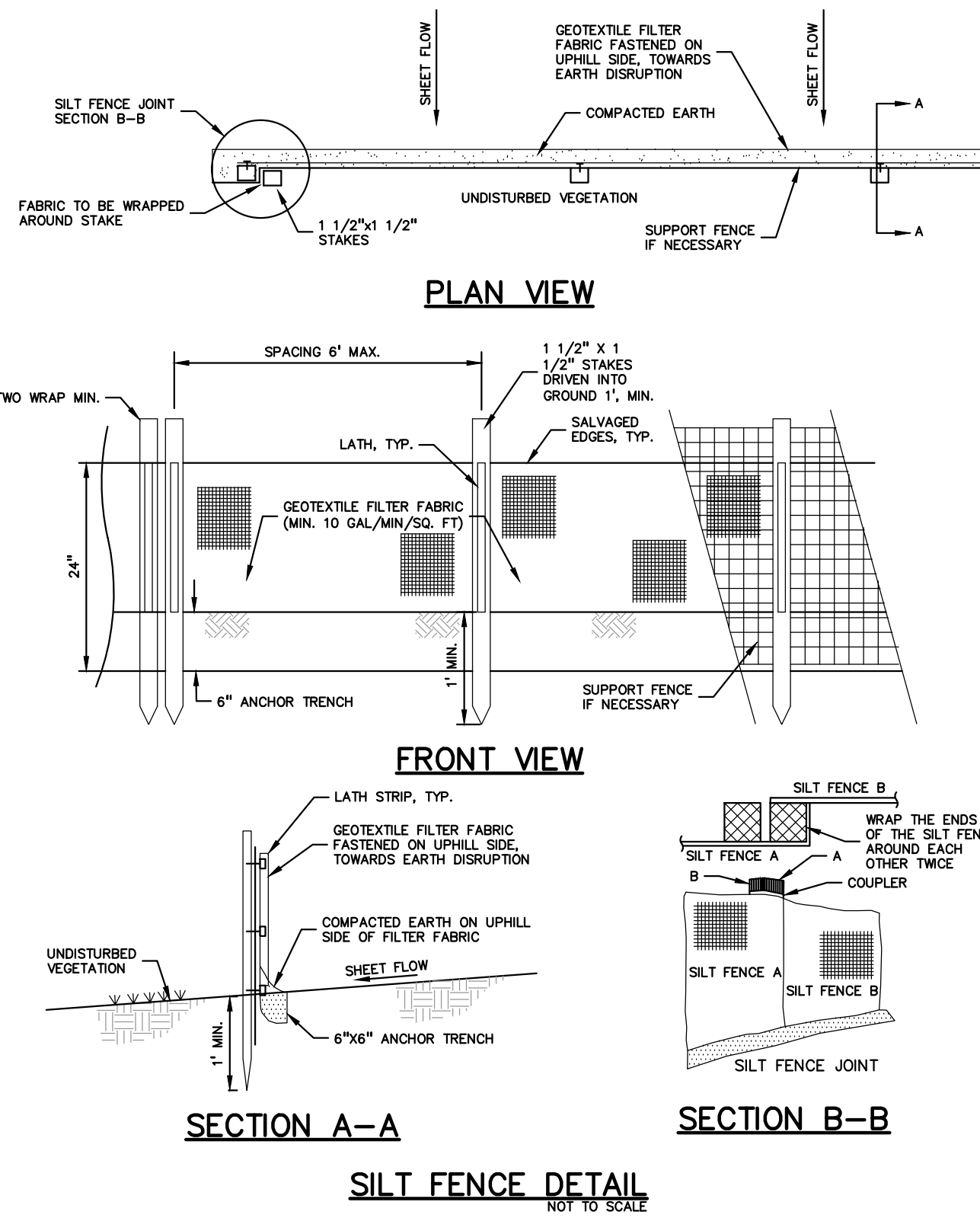




TREE PROTECTION DETAIL  
NOT TO SCALE



SIGN AND POST INSTALLATION  
IN LANDSCAPED AREAS  
NOT TO SCALE

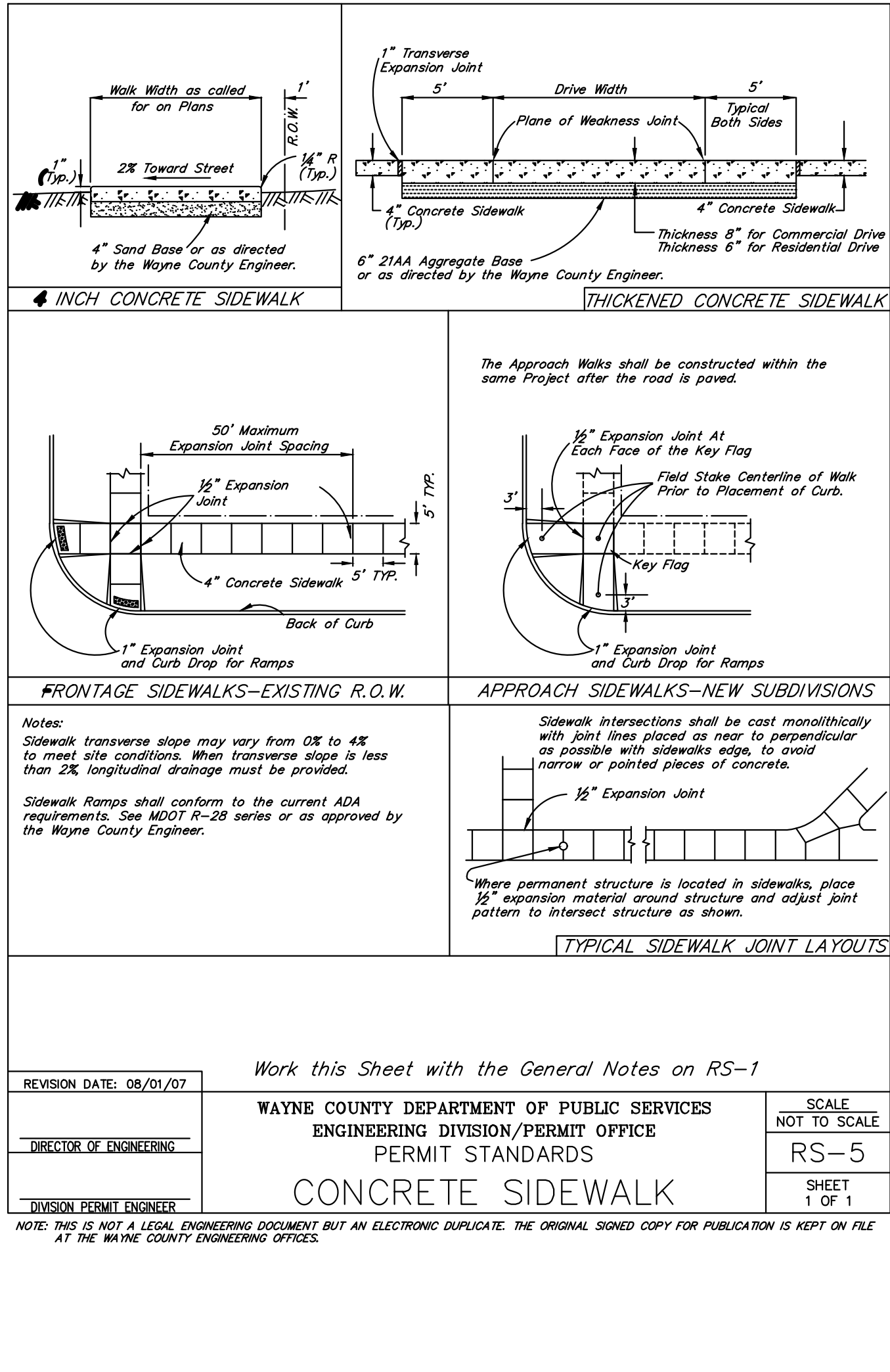


**PEA GROUP**

t: 844.813.2949  
www.peagroup.com

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

CAUTION!!  
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO 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.



CLIENT

**VAN BUREN TOWNSHIP**  
46425 TYLER ROAD  
VAN BUREN, MICHIGAN

**VAN BUREN**  
CHARTER TOWNSHIP

PROJECT TITLE

**IRON BELLE TRAIL -  
SECTION J**  
VAN BUREN TOWNSHIP  
VAN BUREN, MICHIGAN



**REVISIONS**

ORIGINAL ISSUE 12/2/20

REVISION 1/27/21

REVISION NORFOLK SOUTHERN 11/10/21

REVISION PER MDOT ORDER 9/01/22Z

REVISION PER TWP 1/24/24

ORIGINAL ISSUE DATE:  
DECEMBER 3, 2020

DRAWING TITLE

**DETAIL SHEET**

PEA JOB NO. 2020-0095

P.M. JTS

DN. JMR

DES. JMR

DRAWING NUMBER:

NOT FOR CONSTRUCTION

C-5.2



5" x 8"  
REFER TO 'SIGN AND POST INSTALLATION DETAIL' FOR MOUNTING INSTRUCTIONS  
SHEET CONTACT PEA, INC. FOR GRAPHIC DESIGN FILE

**IRON BELLE TRAIL SIGN MARKER DETAIL - SIGN A**  
NOT TO SCALE



