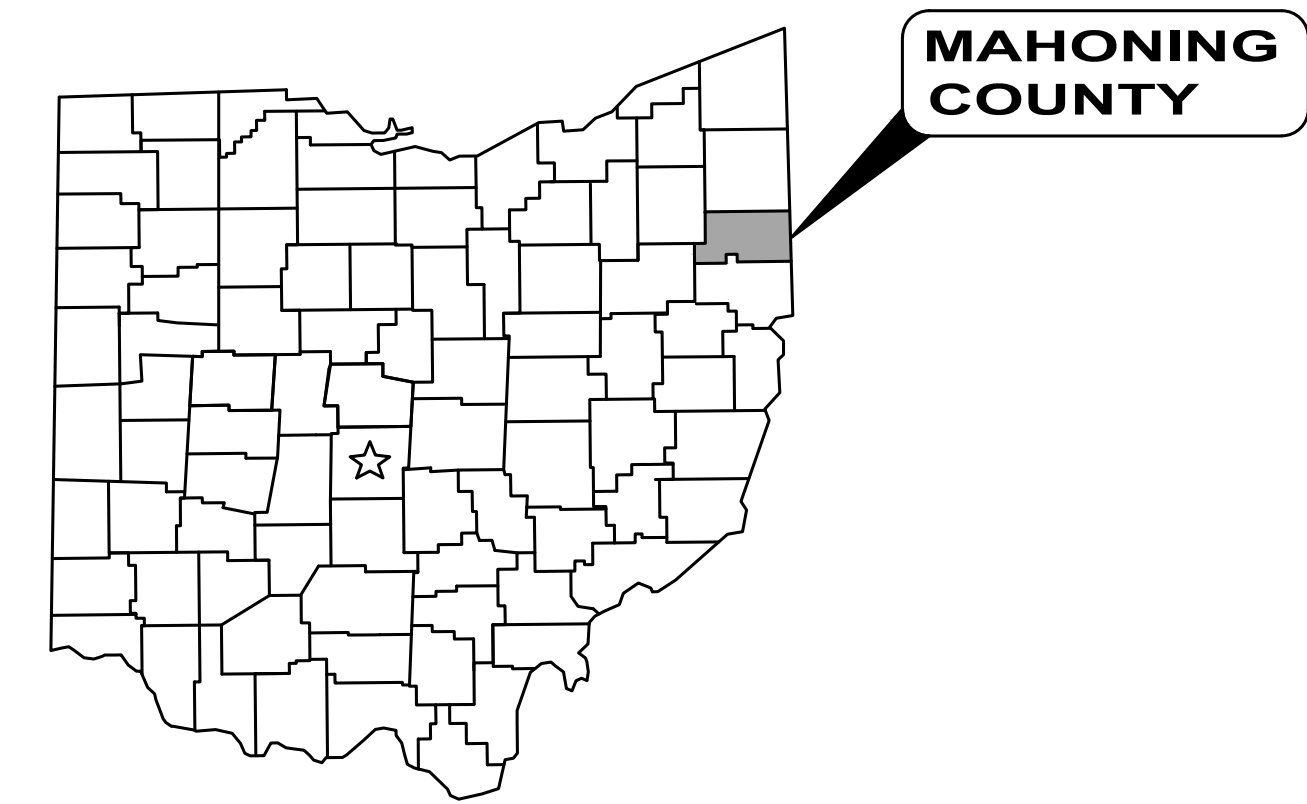


BOARDMAN TOWNSHIP COLLEEN DRIVE PT.2 STORM IMPROVEMENTS



MAHONING COUNTY, OHIO



JUNE 2026



LOCATION MAP
NOT TO SCALE

BOARDMAN TOWNSHIP TRUSTEES:

LARRY MOLITERNO	TRUSTEE
STEVE YACOVONE	TRUSTEE
MATT GAMBREL	TRUSTEE



OHIO 811 DESIGN SERIAL NUMBER & UTILITY LIST:

TICKET B434001407-00B, B434001408-00B

<p>ROADWAY KIM BLASCO BOARDMAN TOWNSHIP ROAD DEPARTMENT 8299 MARKET STREET BOARDMAN, OHIO 44512 330-726-4190</p>	<p>DOMINION EAST OHIO (GAS) MICHAEL NORTH 320 SPRINGSIDE DR. SUITE 320 AKRON, OHIO 44333 (330) 608-2576 W.MICHAEL.NORTH@DOMINIONENERGY.COM</p>	<p>ARMSTRONG CABLE (COMMUNICATIONS) MARC MORETTI 9328 WOODWORTH RD NORTH LIMA, OH, 44452 330-720-1631 MMORRETTI@AGOC.COM</p>	<p>THE CITY OF YOUNGSTOWN WATER DEPARTMENT GIOVAN GILBERT 160 NORTH WEST AVENUE YOUNGSTOWN, OHIO 44502 330-742-8751</p>
<p>MAHONING COUNTY SANITARY ENGINEERS BERNARD PETRO, PE 761 INDUSTRIAL ROAD YOUNGSTOWN, OHIO 44509 330-793-5514</p>	<p>FIRST ENERGY (ELECTRIC) MICHAEL BECK 730 SOUTH AVENUE YOUNGSTOWN, OHIO 44502 330-740-7704 BECKM@FIRSTENERGYCORP.COM</p>	<p>AT&T (COMMUNICATIONS) TORRICE ROBINSON 50 WEST BOWERY STREET AKRON, OHIO 44308 330-734-5117 TR3463@ATT.COM</p>	

OWNER:

MARK RAGOZINE TOWNSHIP ADMINISTRATOR

OFFICE:

BOARDMAN TOWNSHIP ADMINISTRATION BUILDING
8299 MARKET ST.
BOARDMAN, OH 44512

(330) 726-4177 PHONE
(330) 729-2054 FAX

PROJECT CONTACT:

BOARDMAN TOWNSHIP ROAD SUPERINTENDENT
KIM BLASCO

ENGINEER:

VERDANTAS
904 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OHIO 44514
(330) 746-1200

PROJECT OVERVIEW:

THIS PROJECT INCLUDES THE REMOVAL OF EXISTING ARCHED CMP STORM SEWERS IN BACK YARDS FROM TURNBERRY DRIVE TO COLLEEN DRIVE. THE SCOPE IS TO REPLACE THE SEWERS WITH NEW CIRCULAR STORM SEWERS, ACCESS STRUCTURES, REPLACE THE JUNCTION CHAMBER NORTH OF COLLEEN DRIVE, RE-GRADING, AND REHABILITATION OF EXISTING SEWERS TO REMAIN.



PATRICK A. BLAKE, P.E. PE NO. 88436

06/04/2026

DATE

- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

ENGINEER'S PROJECT No. 242438



verdantas

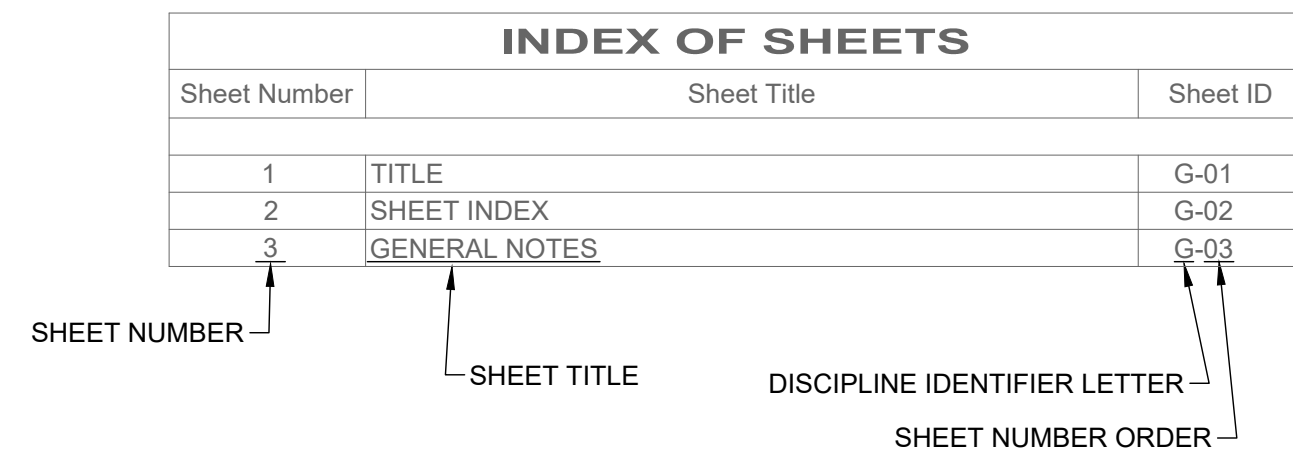
NO	REVISION	DATE

SCALE: ###	DATE: 2/27/2025	DESIGNED BY: WMB	DRAWN BY: WMB	CHECKED BY: ###
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COLLEEN DRIVE STORM IMPROVEMENTS: PART II
BOARDMAN, OHIO
MAHONING COUNTY
COVER SHEET

PROJECT NO: 242438	
DRAWING NAME C-01	
SHEET 1	OF 13

INDEX EXPLANATION:



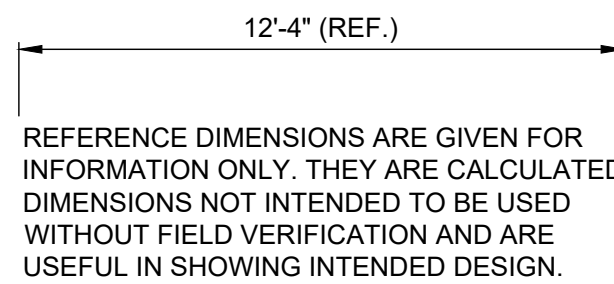
GENERAL SYMBOLOGY NOTES:

- THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY.
- ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SYMBOLOGY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

DRAWING CODED NOTE TYPES:

- VERDANTAS NOTES ARE DEPICTED WITH A HEXAGON, SQUARE, CIRCLE OR TRIANGLE. ALL OTHER EXISTING WRITTEN CALLOUTS SHOWN ON THE REUSED SCANNED PLANS, SECTIONS & DETAILS ARE FOR EXISTING CONDITIONS AND REFERENCE ONLY. MANY OF THOSE NOTES FROM THE SCANNED DRAWINGS PERTAIN TO PREVIOUS WORK DONE.

REFERENCE DIMENSION:



GENERAL ABBREVIATIONS:

AR	AIR RELEASE VALVE	FRP	FIBERGLASS REINFORCED PLASTIC	PT	PRESSURE TEMPERATURE RELIEF
AV	AIR & VACUUM VALVE	FTG	FITTING	PV	PLUG VALVE
BA	BALL VALVE	GL	GLOBE VALVE	PVC	POLYVINYL CHLORIDE PIPE
BFV	BUTTERFLY VALVE	GS	GALVANIZED STEEL	R/W	RIGHT OF WAY
BK	BACKPRESSURE VALVE	GV	GATE VALVE	RJ	RESTRAINED JOINT
BM	BENCH MARK	HDPE	HIGH-DENSITY POLYETHYLENE PIPE	SAN	SANITARY
BP	BACKFLOW PREVENTER	KG	KNIFE GATE VALVE	SCH	SCHEDULE
CB	CATCH BASIN	KN	KNIFE VALVE	SB	SOIL BORING
CL	CENTER LINE	MH	MANHOLE	SDR	STANDARD DIAMETER RATIO
CO	CONE VALVE	MIN	MINIMUM	SS	STAINLESS STEEL
CPP	CORRUGATED PLASTIC PIPE	MJ	MECHANICAL JOINT	STA	STATION
CV	CHECK VALVE	MV	MUD VALVE	STL	STEEL PIPE
DIP	DUCTILE IRON PIPE	N	NORTHING	STM	STORM
E	EASTING	OH	OVERHEAD	SU	SURGE VALVE
EG	EXISTING GRADE	PD	PLUG DRAIN VALVE	SV	SOLENOID VALVE
EL	ELEVATION	PF	PRESSURE RELIEF	TYP	TYPICAL
EX	EXISTING	PG	PRESSURE REGULATOR	UG	UNDERGROUND
FG	FINISHED GRADE	PI	PINCH VALVE	VB	VALVE BOX
FH	FIRE HYDRANT	PR	PROPOSED	WAT	WATER
FL	FLANGED	PRV	PRESSURE REDUCING VALVE	WV	WATER VALVE

SITE SYMBOL LEGEND:

EX:

	POST, MAILBOX
	POST, SIGN
	POST, SIGN - DOUBLE
	POST, SIGN - DUAL
	BUSH
	TREE, DECIDUOUS
	TREE, EVERGREEN
	TREE, STUMP
	NAIL - MAG
	PIN - IRON
	PIPE - IRON
	SPIKE
	GAS METER
	GAS VALVE
	GAS VENT
	POLE - ELECTRIC (POWER)
	POLE - GENERAL
	POLE - GUY
	POLE - GUY ANCHOR
	POLE - LIGHT
	SANITARY MANHOLE - 48"
	CATCH BASIN - 2X2
	CURB INLET - 2X3
	STORM DRAIN
	STORM MANHOLE - 48"
	WATER HYDRANT, FDC
	WATER HYDRANT, FIRE
	WATER VALVE W/TEXT
	WATER METER
	WATER METER PIT

SITE LINE LEGEND:

EX:

	RIGHT-OF-WAY (APPROXIMATE NOT SURVEYED)
	PROPERTY LINE (APPROXIMATE NOT SURVEYED)
	BUILDING OUTLINES
	CONTOURS - MAJOR
	CONTOURS - MINOR
	DITCH CENTERLINE
	SLOPE LINE
	SLOPE - BREAKLINE
	SLOPE - TOP
	SLOPE - TOE
	WATER EDGE
	EDGE OF ROAD
	FENCE - GENERAL
	FENCE - CHAIN LINK
	TREE LINE
	ELECTRIC LINE
	ELECTRIC LINE - OH
	ELECTRIC LINE - UG
	GAS LINE
	GAS SERVICE
	SANITARY LINE
	STORM LINE
	WATER LINE
	WATER SERVICE
	CENTERLINE
	WORK LIMITS

PR:

	CENTERLINE
	WORK LIMITS

Sheet List Table		
Sheet Number	Sheet Title	Sheet Name
1	COVER SHEET	C-01
2	LEGENDS SYMBOLS & SHEET INDEX	C-02
3	SURVEY CONTROL SHEET	C-03
4	GENERAL NOTES	C-04
5	CONSTRUCTION DETAILS	C-05
6	CONSTRUCTION DETAILS 2	C-06
7	CONSTRUCTION DETAILS 3	C-07
8	PLAN & PROFILE	C-08
9	PLAN & PROFILE	C-09
10	PLAN & PROFILE	C-10
11	PLAN & PROFILE	C-11
12	PLAN & PROFILE	C-12
13	SWPPP NOTES & DETAILS	C-13



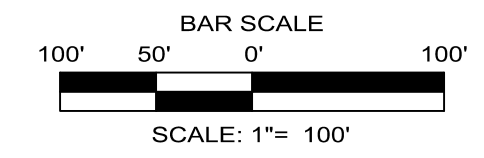
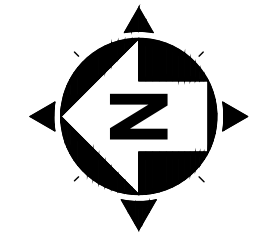
NO	REVISION	DATE

SCALE: AS SHOWN
 DATE: 2/27/2025
 DESIGNED BY: MMB
 DRAWN BY: MMB
 CHECKED BY: PAB

COLLEEN DRIVE STORM IMPROVEMENTS: PART II
 MAHONING COUNTY BOARDMAN, OHIO

LEGENDS SYMBOLS & SHEET INDEX

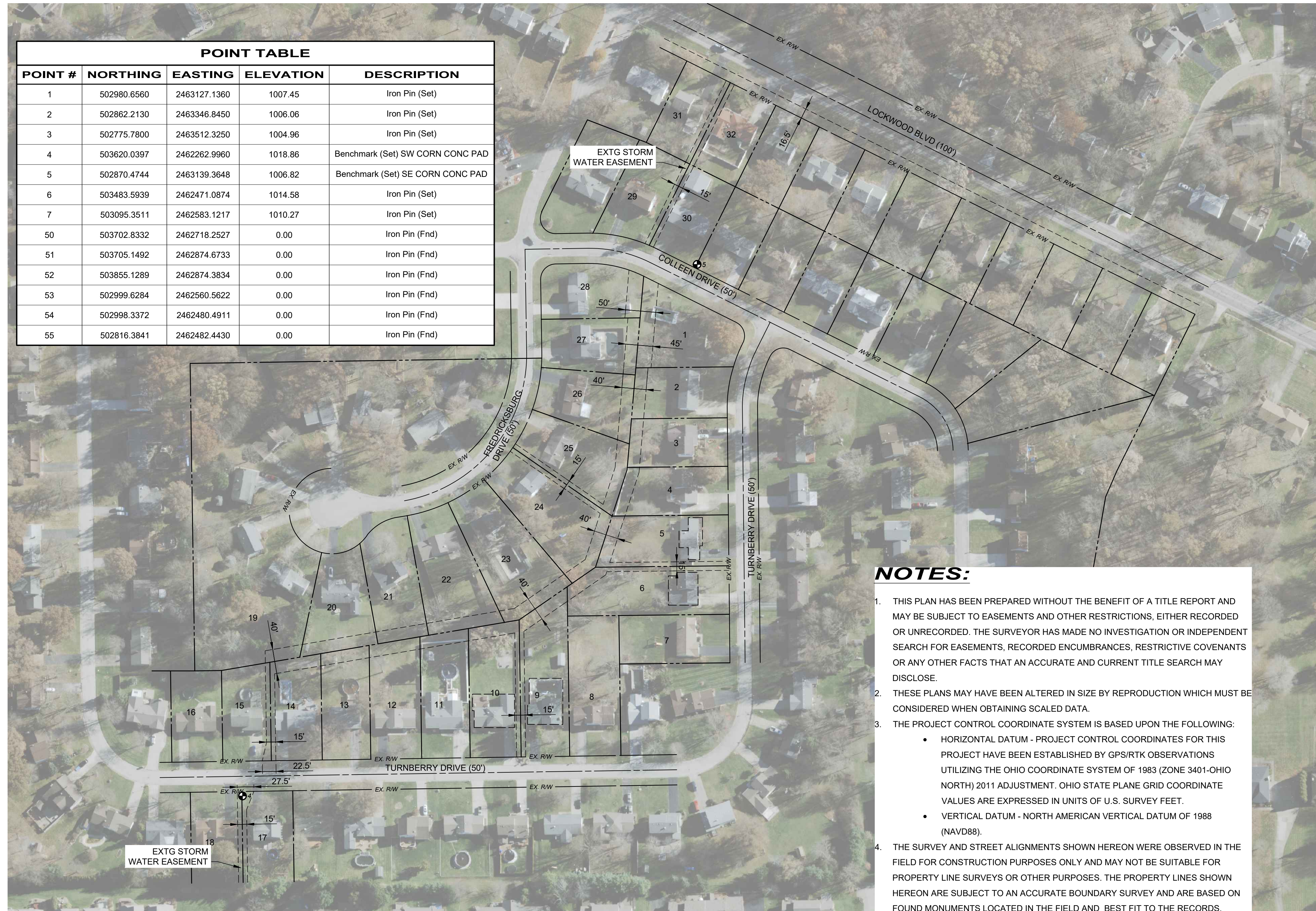
PROJECT NO:	
242438	
DRAWING NAME	
C-02	
SHEET	OF
2	13



PROPERTY OWNERSHIP:

- | | |
|--|--|
| 1. 32-089-0-013.00-0
JUSTIN K & KIMBERLY A VALLIA
1497 TURNBERRY DR | 17. 32-089-0-076.00-0
ERIC B & PAMELA G GRABMAN
1460 TURNBERRY DR |
| 2. 32-089-0-138.00-0
LINDA M MIKE & RALPH S TRAINO
1495 TURNBERRY DR | 18. 32-089-0-077.00-0
SOPHIA LUCILLE MANCINI
1458 TURNBERRY DR |
| 3. 32-089-0-137.00-0
NICK J BUFFA
1493 TURNBERRY DR | 19. 32-089-0-147.00-0
KAREN GIORGETTI
1485 FREDRICKSBURG DR |
| 4. 32-089-0-136.00-0
ARRON T ABBOT & LINDSAY M MEENACHAN
1491 TURNBERRY DR | 20. 32-089-0-146.00-0
SHARON & MARIAH D PERCY
1475 FREDRICKSBURG DR |
| 5. 32-089-0-135.00-0
DOMINIC J DEFELICE & COURTNEY L ROTHBAUER
1489 TURNBERRY DR | 21. 32-089-0-145.00-0
DANIEL J & ELLEN M VANDUSSEN
1465 FREDRICKSBURG DR |
| 6. 32-089-0-134.00-0
DAVID A KUSZAJ
1487 TURNBERRY DR | 22. 32-089-0-144.00-0
BRANDON D & CHRISTINA KAPPLER
1465 FREDRICKSBURG DR |
| 7. 32-089-0-133.00-0
JEFFREY M & WENDY L GORUP
1485 TURNBERRY DR | 23. 32-089-0-143.00-0
ALFRED S & KATHLEEN M PALUMBO
1445 FREDRICKSBURG DR |
| 8. 32-089-0-130.00-0
MAUREEN A WALSH
1473 TURNBERRY DR | 24. 32-089-0-142.00-0
JAMES V FERRANTE
1435 FREDRICKSBURG DR |
| 9. 32-089-0-129.00-0
APRIL MARTIN
1471 TURNBERRY DR | 25. 32-089-0-141.00-0
NORTHEASTERN ENGINEERING AND CONTRACTING
1425 FREDRICKSBURG DR |
| 10. 32-089-0-128.00-0
JEFFREY A & JANICE BRUNO
1469 TURNBERRY DR | 26. 32-089-0-140.00-0
JOAN T TESTA
1417 FREDRICKSBURG DR |
| 11. 32-089-0-127.00-0
JAMES D & RUTH E ANDERSON
1467 TURNBERRY DR | 27. 32-089-0-139.00-0
JOHN G & PAULETTE M MISSOS
1409 FREDRICKSBURG DR |
| 12. 32-089-0-126.00-0
JOHN D LATONE
1465 TURNBERRY DR | 28. 32-089-0-014.00-0
CURT E HILEMAN
1401 FREDRICKSBURG DR |
| 13. 32-089-0-125.00-0
DALE L & CHERYL M MAUCH
1463 TURNBERRY DR | 29. 32-089-0-037.00-0
EDWARD & ANN MARIE SALUS
6805 FREDRICKSBURG DR |
| 14. 32-089-0-124.00-0
JOSEPH J & MAURA J SCOTT
1461 TURNBERRY DR | 30. 32-089-0-038.00-0
CONSTANCE A PREJS
6811 COLLEEN DR |
| 15. 32-089-0-123.00-0
KENNETH D & DEBRA RUSE
1459 TURNBERRY DR | 31. 32-089-0-036.00-0
EMILY ANGELICA SACKETT
6800 FREDRICKSBURG DR |
| 16. 32-089-0-123.00-0
JAMES & JAY DECAPITA
1457 TURNBERRY DR | 32. 32-089-0-035.00-0
JONATHAN SIGNER
6820 LOCKWOOD BLVD |

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	502980.6560	2463127.1360	1007.45	Iron Pin (Set)
2	502862.2130	2463346.8450	1006.06	Iron Pin (Set)
3	502775.7800	2463512.3250	1004.96	Iron Pin (Set)
4	503620.0397	2462262.9960	1018.86	Benchmark (Set) SW CORN CONC PAD
5	502870.4744	2463139.3648	1006.82	Benchmark (Set) SE CORN CONC PAD
6	503483.5939	2462471.0874	1014.58	Iron Pin (Set)
7	503095.3511	2462583.1217	1010.27	Iron Pin (Set)
50	503702.8332	2462718.2527	0.00	Iron Pin (Fnd)
51	503705.1492	2462874.6733	0.00	Iron Pin (Fnd)
52	503855.1289	2462874.3834	0.00	Iron Pin (Fnd)
53	502999.6284	2462560.5622	0.00	Iron Pin (Fnd)
54	502998.3372	2462480.4911	0.00	Iron Pin (Fnd)
55	502816.3841	2462482.4430	0.00	Iron Pin (Fnd)



NOTES:

- THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO EASEMENTS AND OTHER RESTRICTIONS, EITHER RECORDED OR UNRECORDED. THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS, RECORDED ENCUMBRANCES, RESTRICTIVE COVENANTS OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION WHICH MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
- THE PROJECT CONTROL COORDINATE SYSTEM IS BASED UPON THE FOLLOWING:
 - HORIZONTAL DATUM - PROJECT CONTROL COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS/RTK OBSERVATIONS UTILIZING THE OHIO COORDINATE SYSTEM OF 1983 (ZONE 3401-OHIO NORTH) 2011 ADJUSTMENT. OHIO STATE PLANE GRID COORDINATE VALUES ARE EXPRESSED IN UNITS OF U.S. SURVEY FEET.
 - VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WERE OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR OTHER PURPOSES. THE PROPERTY LINES SHOWN HEREON ARE SUBJECT TO AN ACCURATE BOUNDARY SURVEY AND ARE BASED ON FOUND MONUMENTS LOCATED IN THE FIELD AND BEST FIT TO THE RECORDS.
- AN ALTA/ NSPS LAND TITLE SURVEY WAS NOT PERFORMED.
- EASEMENTS, RECORD RESTRICTIONS AND SETBACKS WERE NOT ADDRESSED DURING THIS SURVEY.
- ALL DIMENSIONS GIVEN ARE EXPRESSED IN U.S. SURVEY FEET.
- THE BENCHMARK ELEVATIONS SHOWN IN THE PROJECT CONTROL TABLE ARE AT THE TOP OF THE RED CAP OF THE IRON PIN SET.
- IRON PINS SET ARE 5/8" DIAM. BY 30" LONG STEEL REINFORCING BARS WITH A RED CAP INSCRIBED WITH "CT REFERENCE"

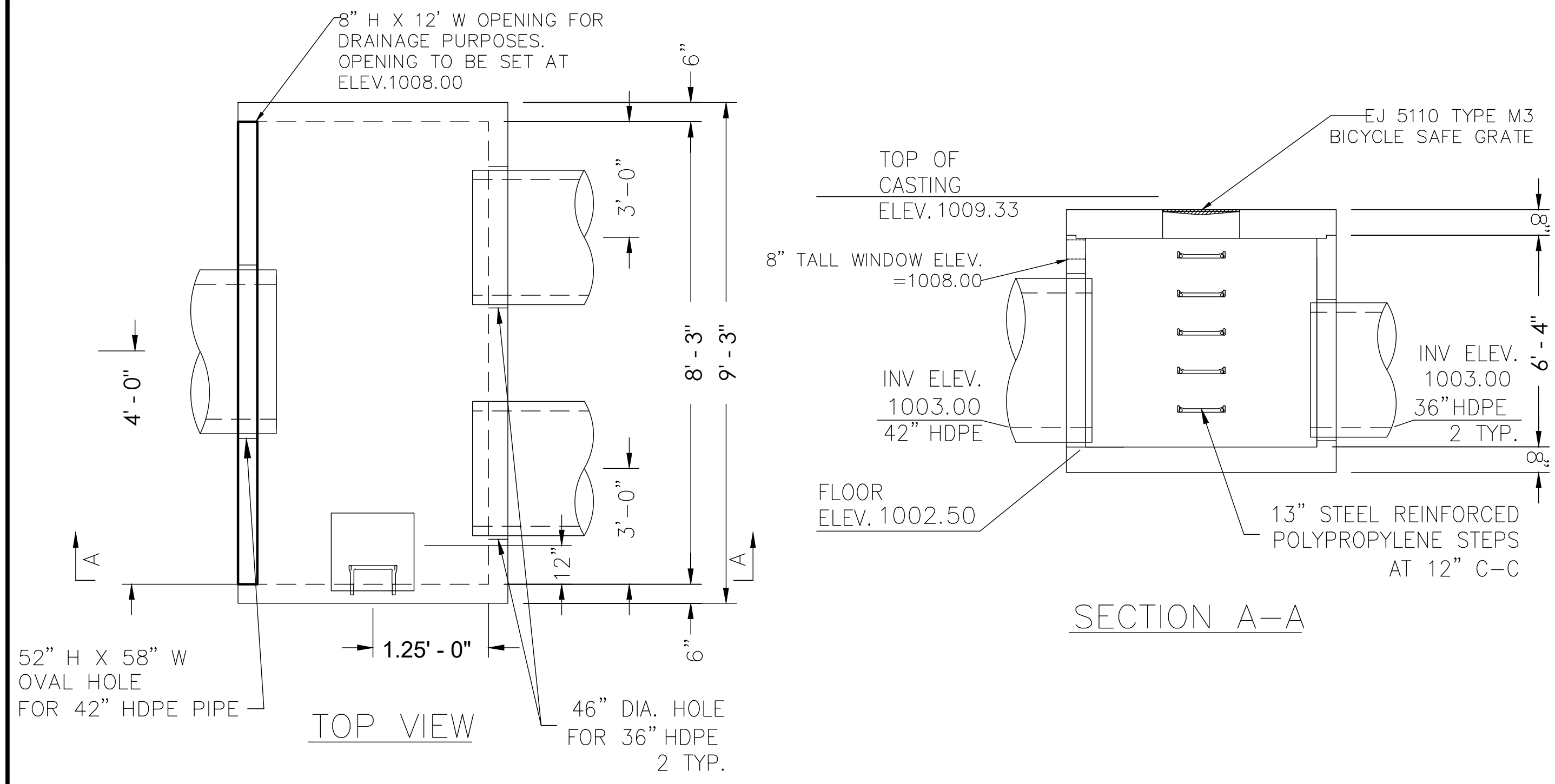


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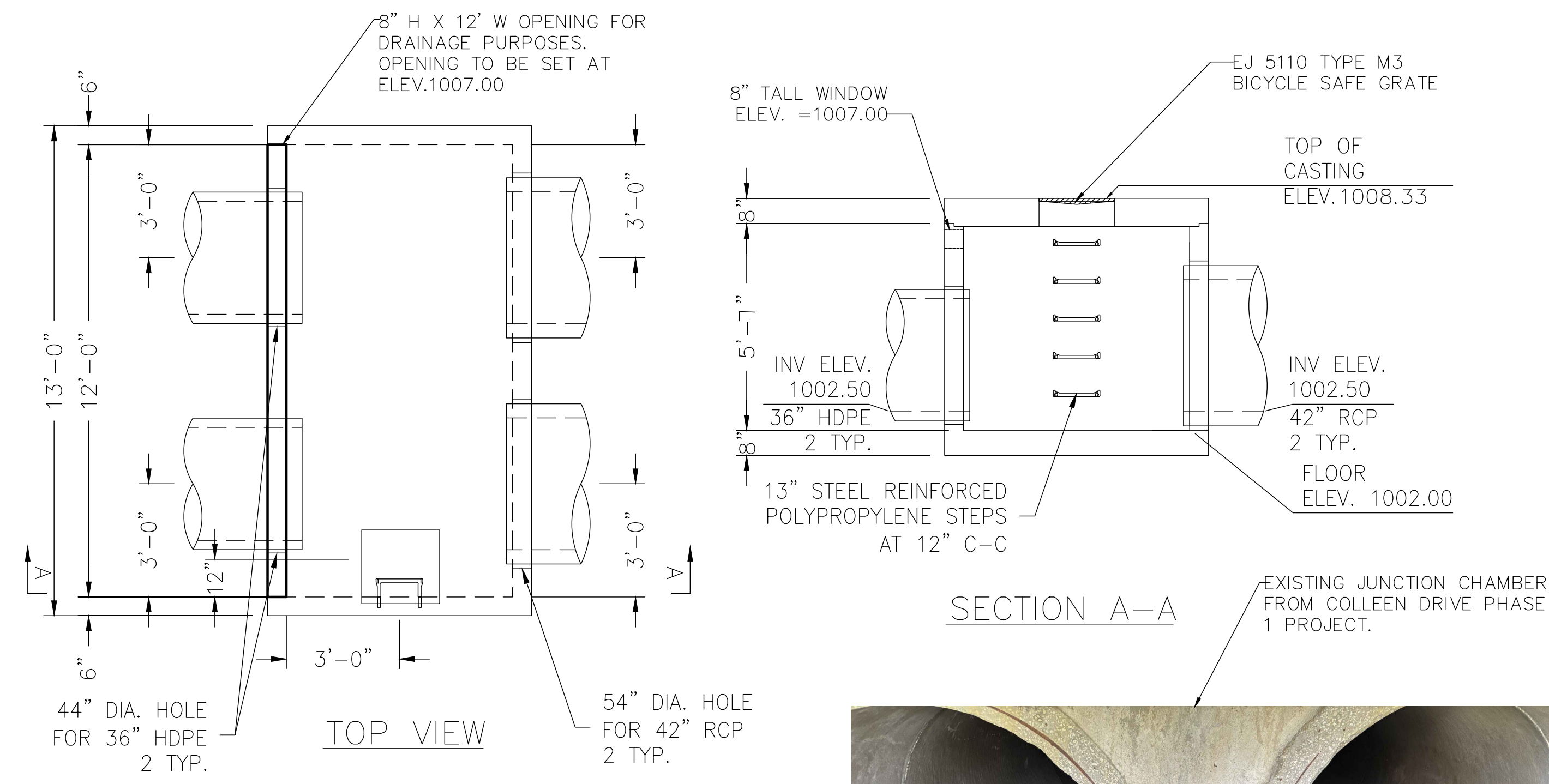
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DATE: 06/05/26
DESIGNED BY: RAS
DRAWN BY: RAS
CHECKED BY: TMM

COLLEEN DRIVE STORM IMPROVEMENTS: PART II
MAHONING COUNTY BOARDMAN, OHIO
SURVEY CONTROL SHEET

PROJECT NO: 242438	
DRAWING NAME C-03	
SHEET 3	OF 13



PRECAST CONCRETE JUNCTION CHAMBER NO.2 DETAILS
NOT TO SCALE



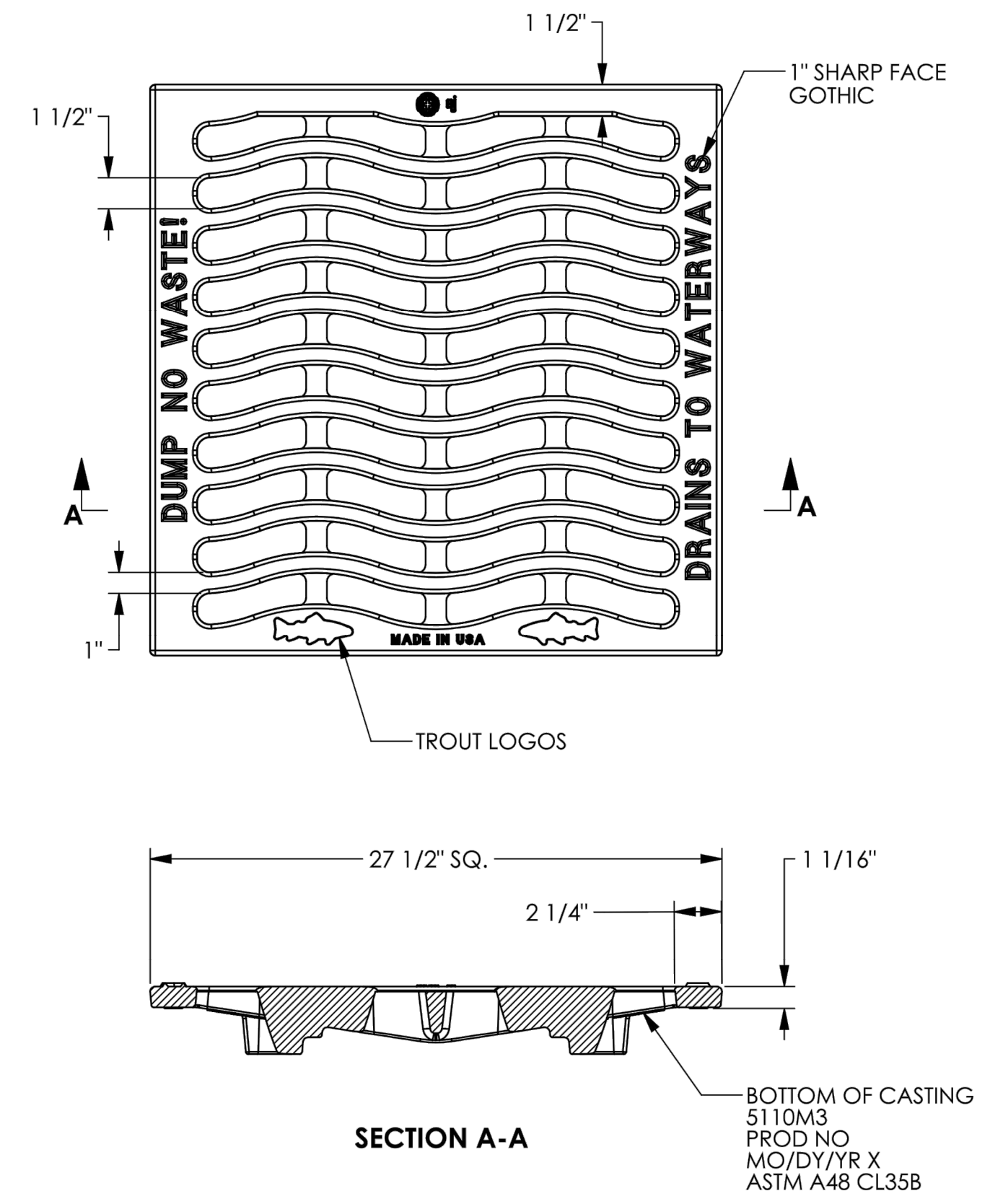
PRECAST CONCRETE JUNCTION CHAMBER NO.1 DETAILS
NOT TO SCALE

JUNCTION CHAMBER NOTES:

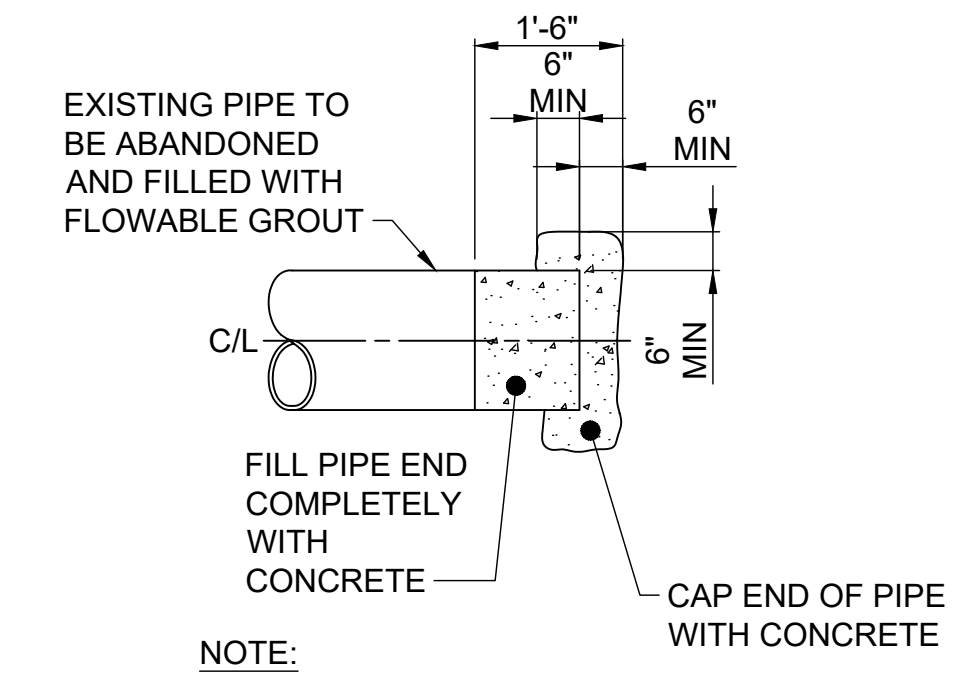
1. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PRECAST JUNCTION CHAMBER WITH SUPPORTING PE STAMPED DETAILED DESIGN OF STRUCTURE, INCLUDING REINFORCING REBAR DESIGN, SPACING, SIZING AND CONNECTIONS FOR ENGINEER & OWNER REVIEW AND APPROVAL PRIOR TO ORDERING STRUCTURE.
2. REINFORCED PRECAST CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
3. REINFORCING TO BE H-20 LOADING, #5 BARS AT 8" C-C E.W., BENT CONTINUOUSLY AROUND CORNERS.
4. CONSTRUCTION JOINT TO BE SEALED WITH CONSEAL CS-102 MASTIC SEALANT.



5110M3 Grate



BICYCLE SAFE STORM GRATE
NOT TO SCALE



NOTE:
ALL ABANDONED IN-PLACE PIPING SHALL HAVE ENDS CAPPED.

PIPE BULKHEAD DETAIL
NOT TO SCALE



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 2/27/2025	DESIGNED BY: WMB	DRAWN BY: WMB	CHECKED BY: PAB
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COLLEEN DRIVE STORM IMPROVEMENTS: PART II
BOARDMAN, OHIO
MAHONING COUNTY
CONSTRUCTION DETAILS 2

PROJECT NO:	
242438	
DRAWING NAME	
C-06	
SHEET	OF
6	13

OFFICE OF HYDRAULIC ENGINEERING

REVISIONS
07-20-2001
07-19-2002
07-15-2005
07-20-2012
01-18-2013
01-15-2016
07-16-2021
07-19-2024

STDS ENGINEER
K. Brandon

STATE OF OHIO OFFICE OF HYDRAULIC ENGINEERING ADMINISTRATOR
Jeffery E. Syar

STANDARD HYDRAULIC CONSTRUCTION DRAWING
CATCH BASIN No.'s 2-5, 2-6

DESIGN AGENCY



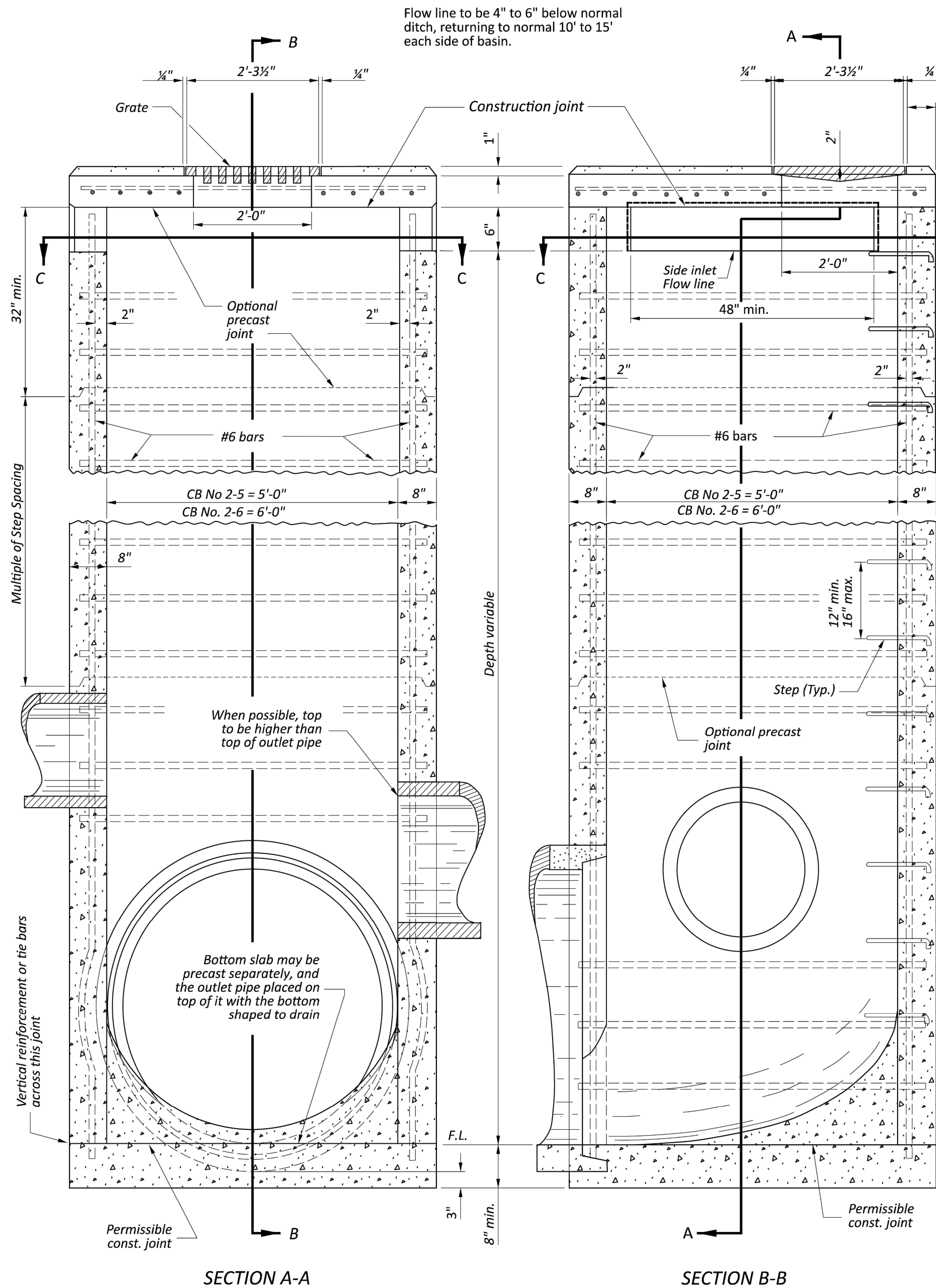
SCD NUMBER
CB-2-5, 2-6

SHEET TOTAL
P.1 1

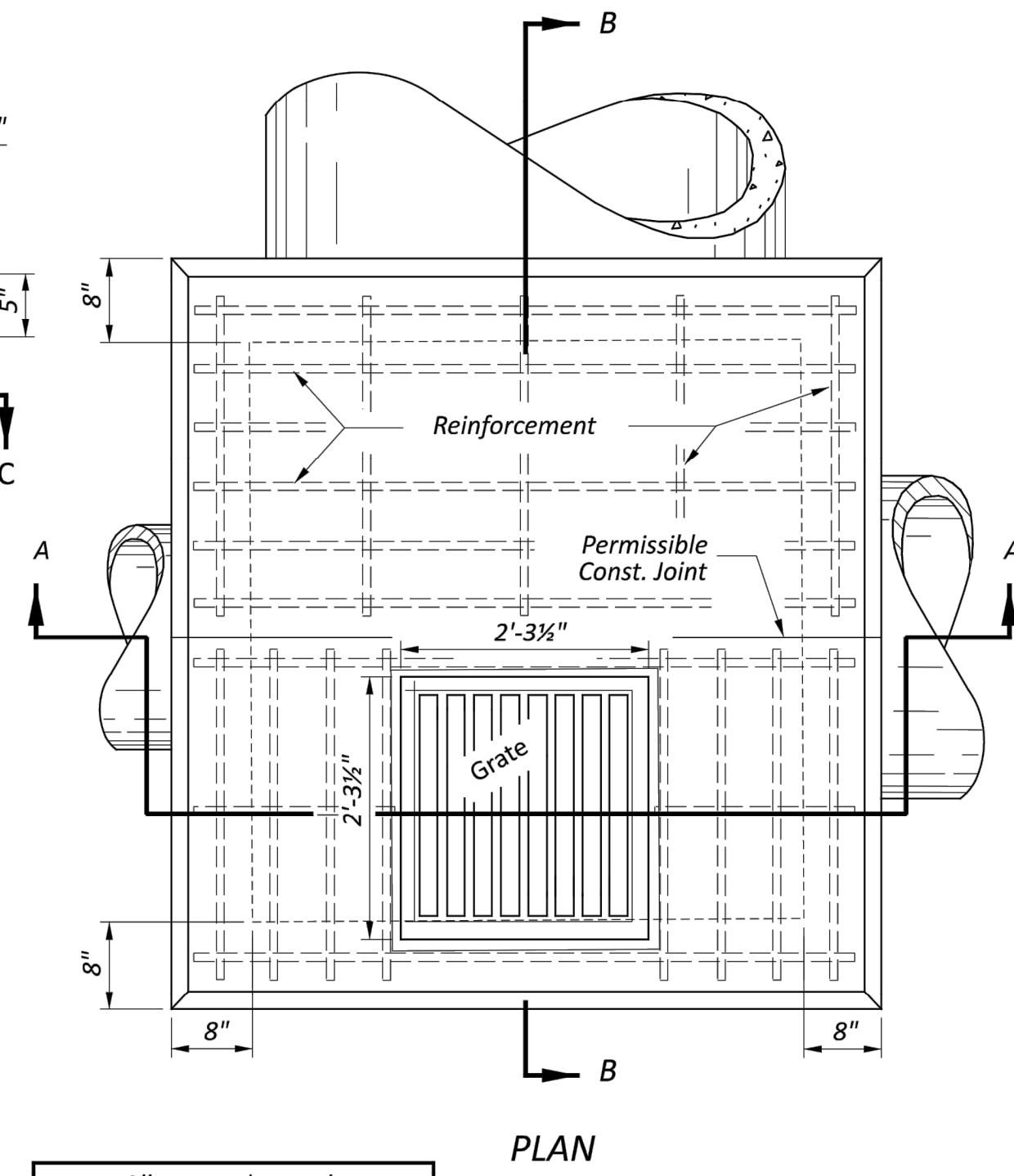
COLLEEN DRIVE STORM IMPROVEMENTS: PART II
MAHONING COUNTY BOARDMAN, OHIO
CONSTRUCTION DETAILS 3

PROJECT NO:
242438
DRAWING NAME
C-07
SHEET OF
7 13

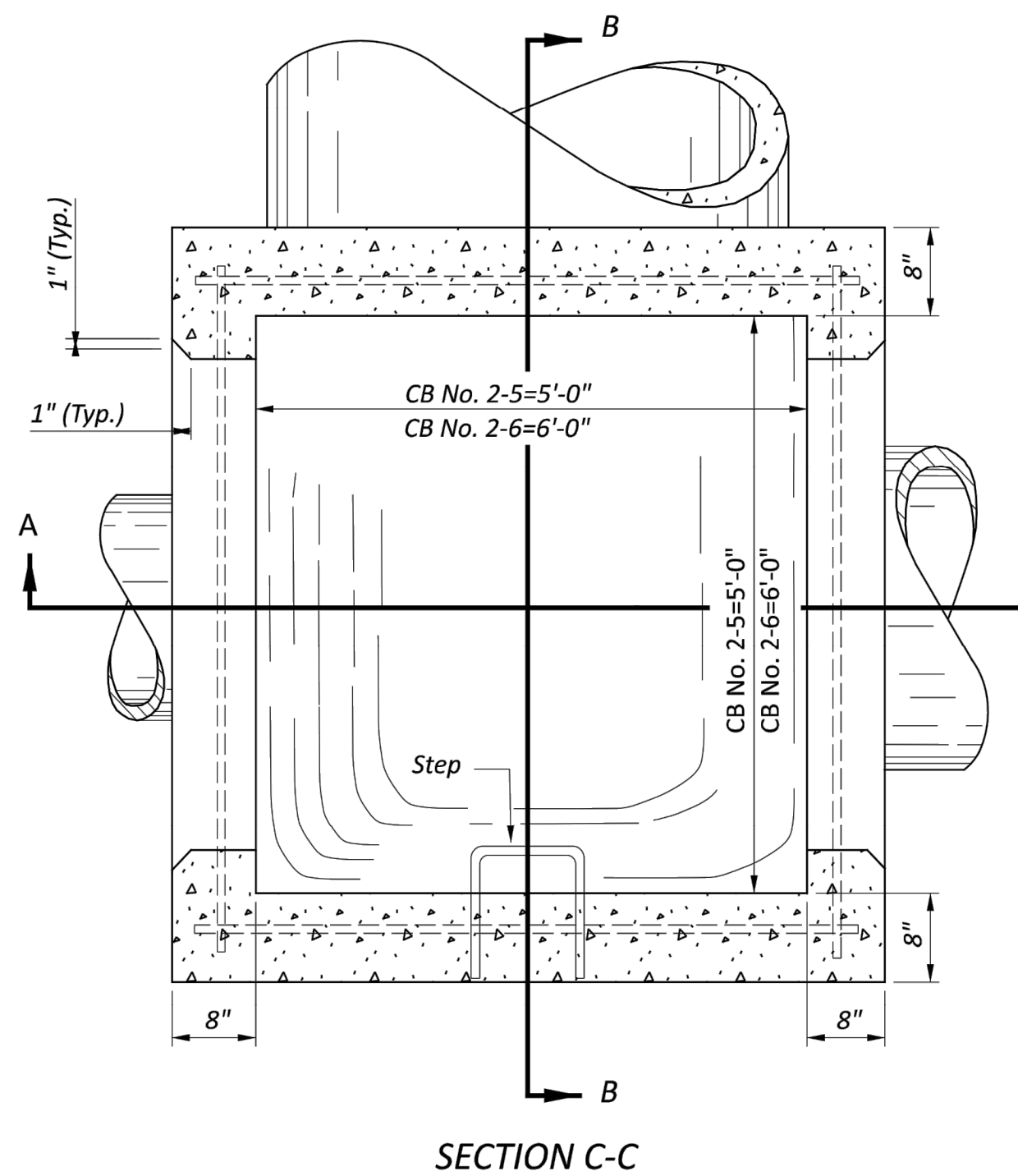
CB-2-5, 2-6



CATCH BASIN No. 2-5 & No. 2-6



PLAN



SECTION C-C

NOTES

GENERAL: Catch Basins 2-5 and 2-6 are not intended for traffic bearing applications.

GRATE: See details on SCD CB-2-2A, 2-2B, 2-2C. Minimum weight of grate: 120 lbs., or meets the requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-4859-C or East Jordan No. 5110 Type M3 bicycle safe grates or approved equals.

Cast the following text into the top of the grate:

"DUMP NO WASTE" and "DRAINS TO WATERWAY"

Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.

WALLS: Construct reinforced concrete walls 8" thick, as shown. Construct brick walls used in place of reinforced concrete with a nominal thickness of 12". Provide precast walls at least 6" thick with sufficient reinforcement to permit shipping and handling without damage and at least equivalent to reinforced cast-in-place construction.

STEPS: Provide steps where the depth exceeds 6'. Meet the requirements of SCD MH-1.

CONCRETE: Provide Class QC1 concrete for cast-in-place structures. When precast, provide concrete meeting the requirements of CMS 706.13. Mark the catch basin number on the structure.

REINFORCEMENT: Provide #6 bars spaced 6" center to center and #6 tie bars spaced as shown for top reinforcement. Main bars to clear bottom of slab by 1 1/4". Side wall to be reinforced with #6 bars horizontal in each side, 6' long for CB No. 2-5 and 7' long for CB 2-6, spaced at 1' center to center, and #6 bars in each corner length equals depth plus 1'.

PRECAST BASE: If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, the location and the elevation are at the top center of the grate. When side openings are provided, the elevation is at the flow line of the side inlet.

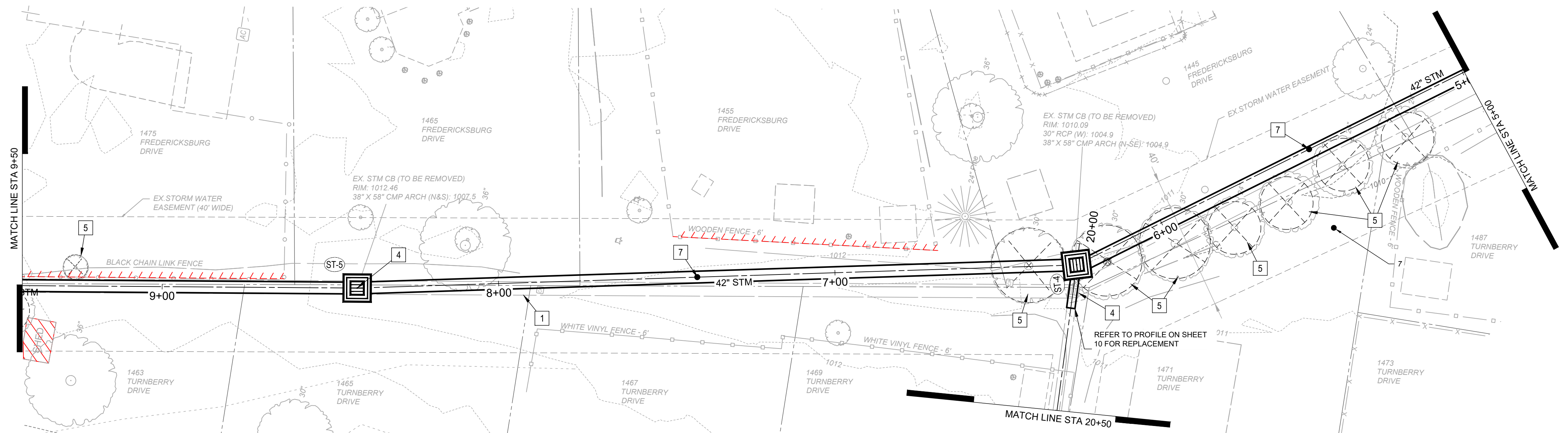
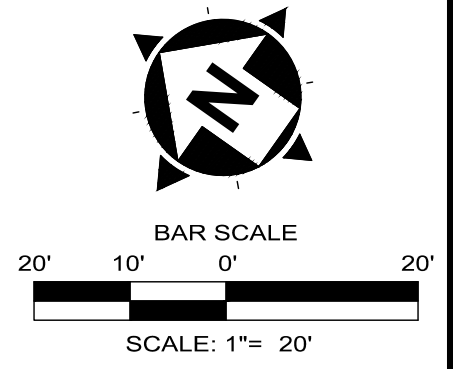
MINIMUM DEPTH: The minimum depth of CB No. 2-5 and CB No. 2-6 is the outside diameter (O.D.) of the outlet pipe plus 7".

OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill all voids per CMS 611.

SIDE INLETS: Provide inlets on both sides of the No. 2-5 and 2-6 catch basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. Do not use catch basins with side inlets within the Clear Zone.

PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-5 or Item 611 - Catch Basin, No. 2-6.

CATCH BASIN	OUTLET PIPE SIZE
2-5	42" to 48"
2-6	54" to 60"



- LEGEND:**
- ST-# PROPOSED STORM STRUCTURE NUMBER
 - TREE REMOVAL
 - EXISTING STRUCTURE TO BE REMOVED FROM THE EXISTING STORMWATER EASEMENT DUE TO PROXIMITY TO STORM SEWER WORK. CONTRACTOR TO COORDINATE WITH HOMEOWNER PRIOR TO REMOVAL FROM EXISTING EASEMENT.
 - EXISTING FENCE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH HOMEOWNER PRIOR TO REMOVAL OF FENCE FROM EXISTING EASEMENT.



SITE GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN HEREIN ARE PER TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS LLC DATED DECEMBER, 2024.
2. EXISTING UNDERGROUND UTILITY ROUTING IS PER TOPOGRAPHIC SURVEY AND BEST AVAILABLE RECORD PLAN INFORMATION. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING UTILITY LOCATIONS AND DEPTHS IN THE FIELD PRIOR TO CONSTRUCTION. IN THE EVENT UTILITY LOCATION DIFFERS IN FIELD FROM PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER.
3. THE PROPOSED IMPROVEMENTS ARE INTENDED TO TIE-IN TO EXISTING, SURROUNDING GRADES AND MAINTAIN EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.
4. CONTRACTOR TO COORDINATE WITH HOMEOWNER(S) AND NOTIFY HOMEOWNER(S) OF TEMPORARY DISTURBANCES TO BE EXPECTED RESULTING FROM CONSTRUCTION, INCLUDING START DATES, AT LEAST 48 HOURS IN ADVANCE.
5. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SEWER PIPES AND PROVIDE REQUIRED MEANS AND MATERIALS TO CONNECT THE EXISTING STORM SEWER PIPES TO THE NEW STRUCTURES WHERE INDICATED.
6. FLOW CONTROL AND BYPASS PUMPING DURING THE DURATION OF THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO SEWER FLOW CONTROL SPEC IN DIVISION 33.
7. EXISTING ARMSTRONG CABLE UNDERGROUND CONDUITS AND PEDESTALS ARE SHOWN PER AVAILABLE UTILITY RECORDS. ARMSTRONG IS SCHEDULED TO RELOCATE THE PEDESTALS AND BURIED CONDUIT OUTSIDE OF THE EASEMENT TO FACILITATE THE STORM SEWER WORK. CONTRACTOR SHALL COORDINATE WITH ARMSTRONG CABLE BEFORE START OF STORM SEWER WORK TO CONFIRM CABLE HAS BEEN RELOCATED.

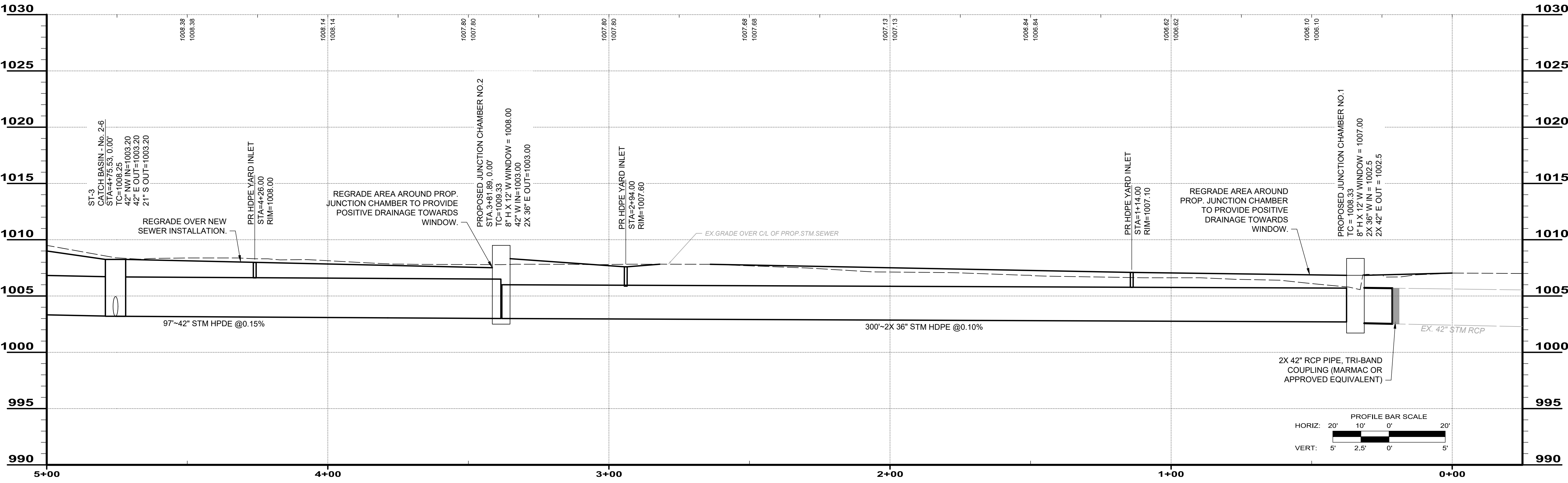
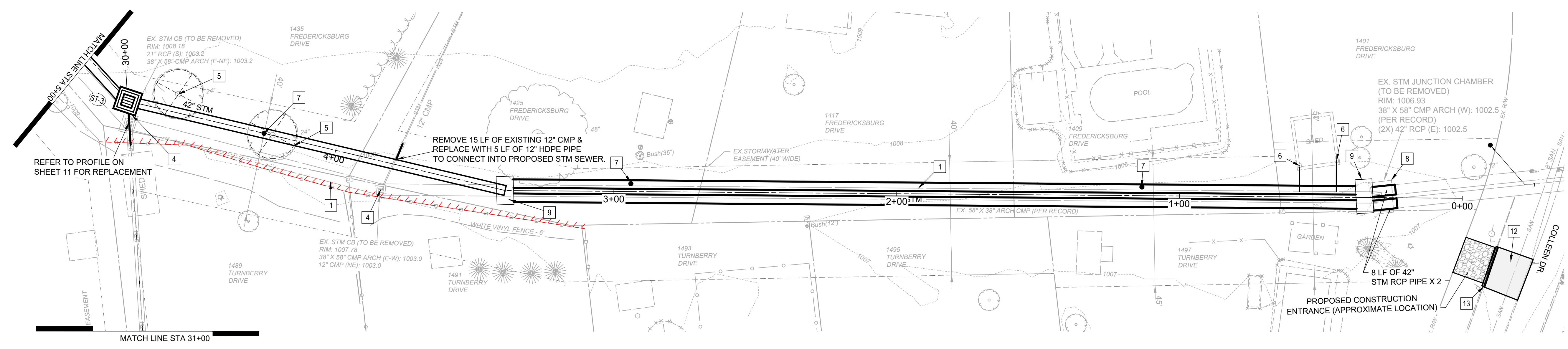
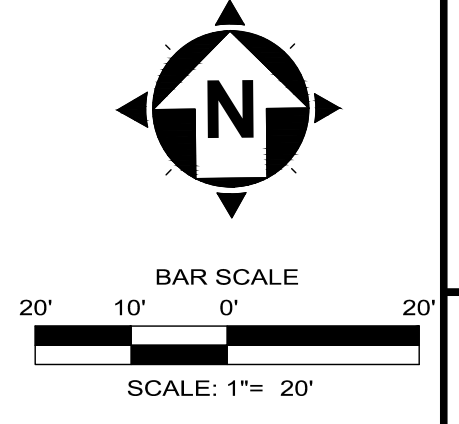
SITE CODED NOTES:

- | | | |
|--|---|--|
| <ol style="list-style-type: none"> 1 CONTRACTOR TO REMOVE EXISTING CMP STORM SEWERS AND REPLACE WITH PROPOSED STORM SEWER PER ALIGNMENT SHOWN ON PLANS WITH WATERTIGHT JOINTS. JOINT SPACING (PIPE SEGMENT LENGTHS) NOT TO EXCEED 20-FT IN ORDER TO MINIMIZE RISK ASSOCIATED WITH EXCAVATION. 2 NOT USED. 3 NOT USED. 4 REMOVE EXISTING STORM STRUCTURE. 5 EXISTING TREE TO BE REMOVED. | <ol style="list-style-type: none"> 6 NOT USED. 7 PROPOSED YARD INLET PER DETAIL ON SHEET 4 TO BE INSTALLED ON THE NEW STORM SEWER. ADS STYLE OR EQUAL TO BE APPROVED BY OWNER. LOCATIONS OF INLETS ARE APPROXIMATE BASED ON EXISTING PROFILE GRADES. CONTRACTOR SHALL FIELD FIT 18" RISERS TO MEET PROPOSED YARD GRADES. PROVIDE POSITIVE DRAINAGE TOWARDS THE YARD INLETS DURING YARD RESTORATION. 8 NOT USED. 9 NOT USED. 10 NOT USED. | <ol style="list-style-type: none"> 11 NOT USED. 12 NOT USED. 13 NOT USED. 14 NOT USED. |
|--|---|--|

NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 2/27/2025
DESIGNED BY: MMB
DRAWN BY: MMB
CHECKED BY: PAB

COLLEEN DRIVE STORM IMPROVEMENTS: PART II	
BOARDMAN, OHIO	
MAHONING COUNTY	
PLAN & PROFILE	
STA. 9+50 TO STA. 5+00	
PROJECT NO: 242438	
DRAWING NAME C-09	
SHEET 9	OF 13



SITE GENERAL NOTES:

- EXISTING CONDITIONS SHOWN HEREIN ARE PER TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS LLC DATED DECEMBER, 2024.
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- THE PROPOSED IMPROVEMENTS ARE INTENDED TO TIE-IN TO EXISTING, SURROUNDING GRADES AND MAINTAIN EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED IN THE PLANS.
- CONTRACTOR TO COORDINATE WITH HOMEOWNER(S) AND NOTIFY HOMEOWNER(S) OF TEMPORARY DISTURBANCES TO BE EXPECTED RESULTING FROM CONSTRUCTION, INCLUDING START DATES, AT LEAST 48 HOURS IN ADVANCE.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SEWER PIPES AND PROVIDE REQUIRED MEANS AND MATERIALS TO CONNECT THE EXISTING STORM SEWER PIPES TO THE NEW STRUCTURES WHERE INDICATED.
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SITE CODED NOTES:

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- NOT USED.
- NOT USED.
- REMOVE EXISTING STORM STRUCTURE.
- EXISTING TREE TO BE REMOVED.

- CONTRACTOR SHALL CONFIRM LOCATION OF ALL DOWNSPOUTS, CONFIRM CONNECTIVITY, AND RECONNECT LEADERS TO PROPOSED STORM SEWER. CONTRACTOR SHALL REINSTATE ANY EXISTING FOUNDATION DRAINS DISTURBED BY EXISTING SEWER REMOVAL AND REPLACEMENT ADJACENT TO THE HOMES.
- PROPOSED YARD INLET PER DETAIL ON SHEET 4 TO BE INSTALLED ON THE NEW STORM SEWER. ADS STYLE OR EQUAL TO BE APPROVED BY OWNER. LOCATIONS OF INLETS ARE APPROXIMATE BASED ON EXISTING PROFILE GRADES. CONTRACTOR SHALL FIELD FIT 18" RISERS TO MEET PROPOSED YARD GRADES. PROVIDE POSITIVE DRAINAGE TOWARDS THE YARD INLETS DURING YARD RESTORATION.
- REMOVE AND PROPERLY DISPOSE OF EXISTING JUNCTION CHAMBER, FRAME AND CASTING.
- PROPOSED REINFORCED CONCRETE STORM JUNCTION CHAMBER. REFER TO CONSTRUCTION DETAILS FOR DIMENSIONS AND GENERAL LAYOUT. CONTRACTOR SHALL SUBMIT PROFESSIONAL ENGINEER STAMPED SHOP DRAWINGS AND CUT SHEETS DETAILING STRUCTURAL DESIGN AND REINFORCEMENT SCHEDULE TO ENGINEER FOR APPROVAL PRIOR TO ORDERING.
- NOT USED.
- NOT USED.

- REMOVE AND REPLACE EXISTING ASPHALT ROADWAY PAVEMENT.
- REMOVE AND REPLACE EXISTING 6" CURB AND GUTTER.
- NOT USED.

LEGEND:

- PROPOSED STORM STRUCTURE NUMBER
- TREE REMOVAL
- EXISTING STRUCTURE TO BE REMOVED FROM THE EXISTING STORMWATER EASEMENT DUE TO PROXIMITY TO STORM SEWER WORK. CONTRACTOR TO COORDINATE WITH HOMEOWNER PRIOR TO REMOVAL FROM EXISTING EASEMENT.
- EXISTING FENCE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH HOMEOWNER PRIOR TO REMOVAL OF FENCE FROM EXISTING EASEMENT.

NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 2/27/2025
DESIGNED BY: WMB
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CHECKED BY: PAB

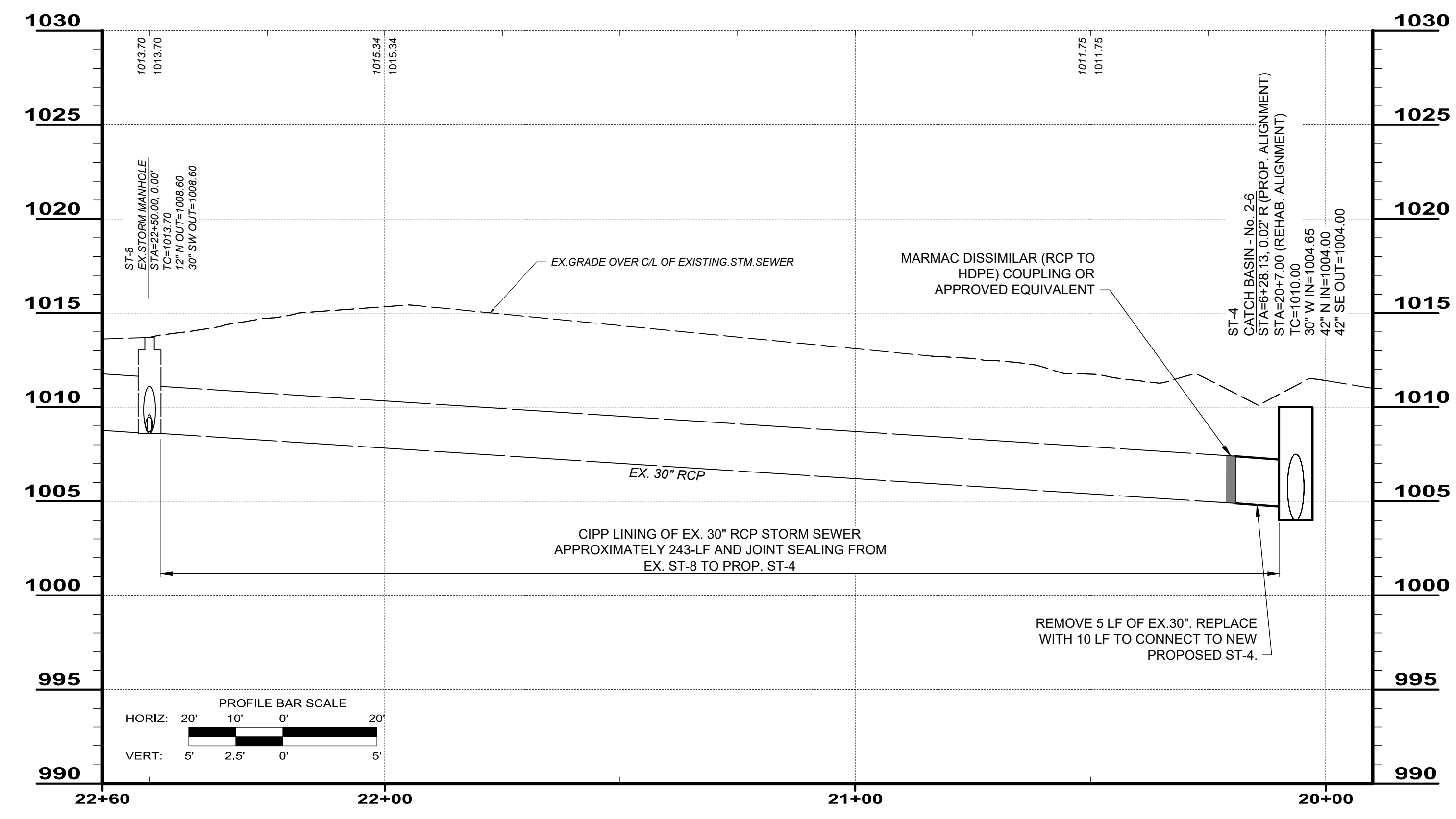
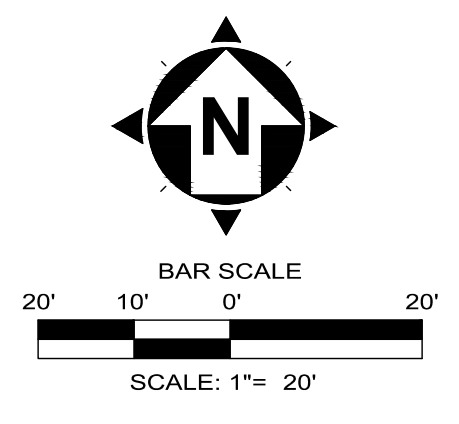
COLLEEN DRIVE STORM IMPROVEMENTS: PART II
BOARDMAN, OHIO
MAHONING COUNTY
PLAN & PROFILE
STA. 5+00 TO STA. 0+00

PROJECT NO: 242438	
DRAWING NAME C-10	
SHEET 10	OF 13



SITE GENERAL NOTES:

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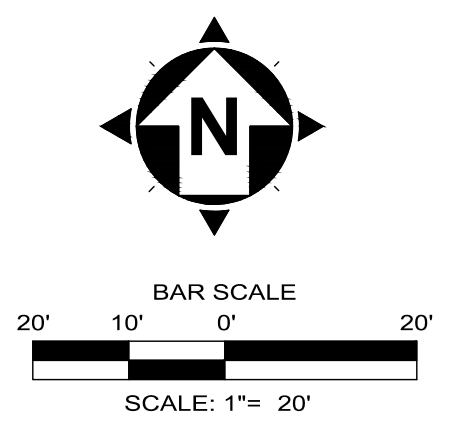
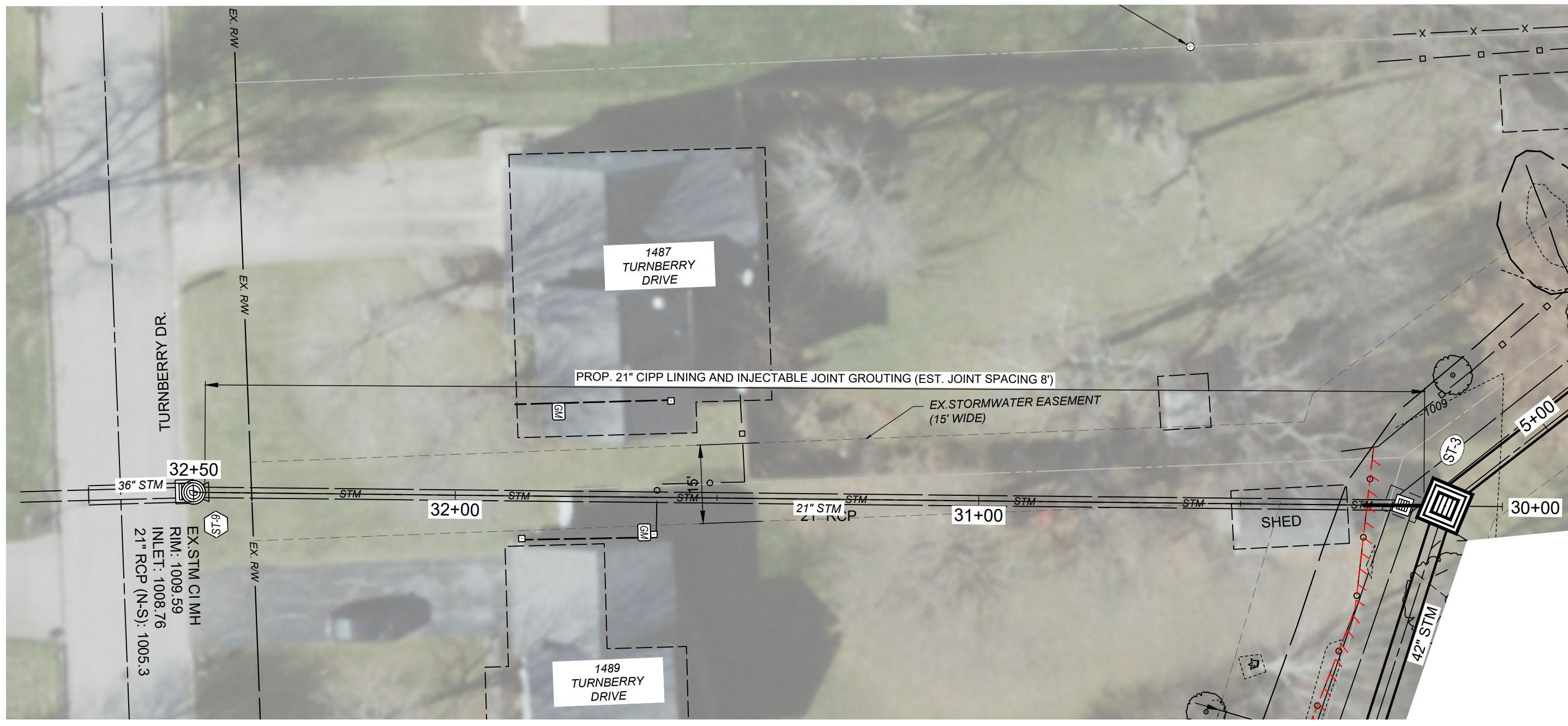
NO	REVISION	DATE

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CHECKED BY:	PAB

COLLEEN DRIVE STORM IMPROVEMENTS: PART II
 BOARDMAN, OHIO
 MAHONING COUNTY

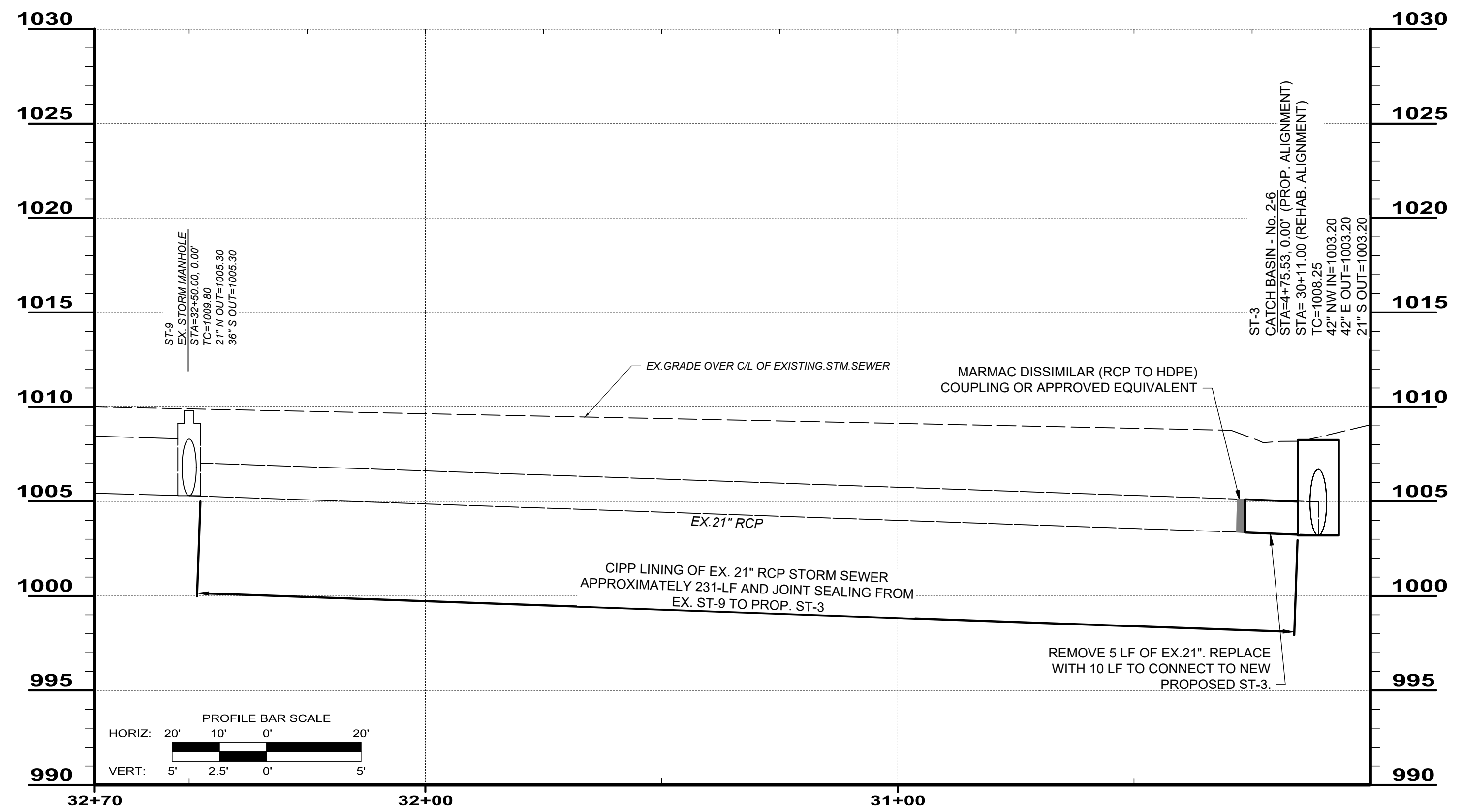
PLAN & PROFILE
 STA. 22+00 TO STA. 22+50

PROJECT NO:	
242438	
DRAWING NAME	
C-11	
SHEET	OF
11	13



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verdantas

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COLLEEN DRIVE STORM IMPROVEMENTS: PART II
 BOARDMAN, OHIO
 MAHONING COUNTY

PLAN & PROFILE
 STA. 30+00 TO STA. 32+50

PROJECT NO:	
242438	
DRAWING NAME	
C-12	
SHEET	OF
12	13

