CITY OF NAPOLEON
ENGINEERING DEPARTMENT

INDUSTRIAL DRIVE STREET EXTENSION
FROM THE NORTH END OF INDUSTRIAL DRIVE NORTH ~ 375'

City Of Napoleon

Mayor – Ronald A. Behm
City Manager – Monica Irelan
Finance Director – Gregory J. Heath
Law Director – Trevor M. Hayberger
Director of Public Works – Chad E. Lulfs, P.E., P.S.

City Council

John A. Helberg – President
John P. Maassel – President Pro-Tem
Travis B. Sheaffer
Jeffrey W. Comadoll
Christopher R. Ridley
Heather R. Wilson
Jeffrey C. Marihugh

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Henry County Transportation Improvement District Board of Trustees

Timothy Scuhmm, P.E., P.S., Chairman, County Engineer
Robert Hastedt, Vice Chairman, County Commissioner
Kevin Garringer, Secretary/Treasurer, County Auditor
Glenn A. Miller, County Commissioner
Thomas Von Deylen, County Commissioner

UNDERGROUND UTILITIES

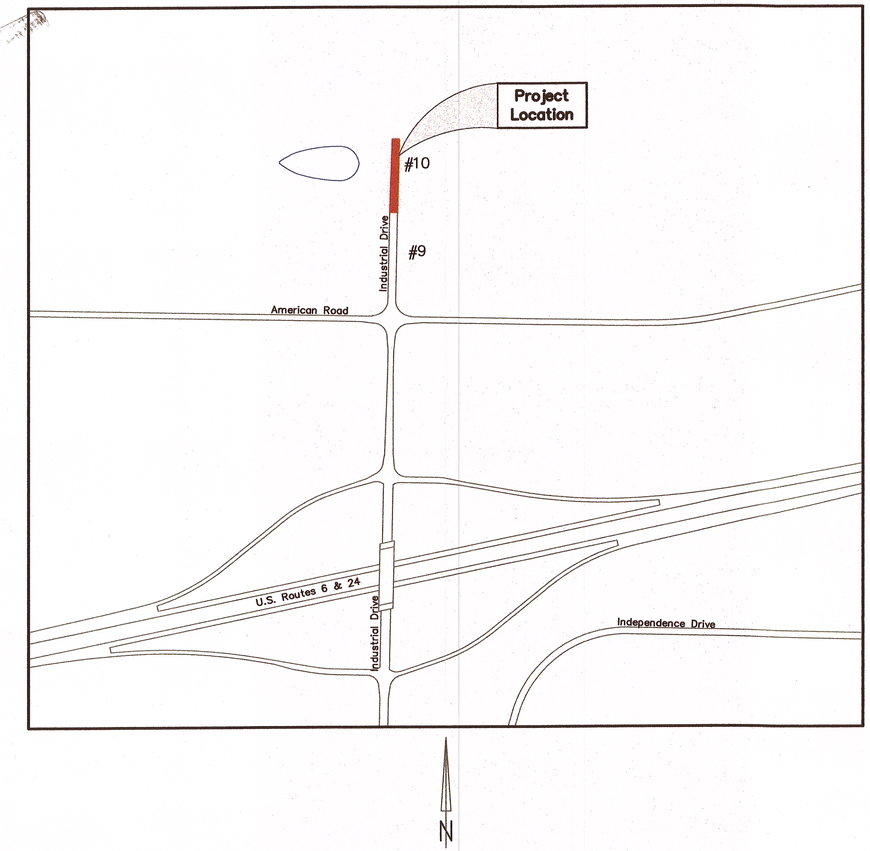
2 WORKING DAYS

BEFORE YOU DIG

Call Toll Free 1–800–362–2764

Ohio Utilities Protection Service
Non–Members
Must Be Called Directly

Roof Drains, Foundation Drains, And Other Clean Water Connections To The Sanitary Sewer System Are Prohibited



Location Map
2014

City Officials

Mayor: Ronald A. Behm — Date: 6-19-14

City Manager: Monica Irelan — Date: 6-19-14

Finance Director: Gregory J. Heath — Date: 6-18-2014

Director of Public Works: Chad E. Lulfs, P.E., P.S. — Date: 06.17.14

Henry County Transportation Improvement District Officials

Executive Director: Patrick McColley, P.E. — Date: 6/20/14

Board of Trustees Chair: Timothy J. Schumm, P.E., P.S. — Date: 6/23/14

STATE OF OHIO — TODD M. JENKINS — E-62326 — REGISTERED PROFESSIONAL ENGINEER

No.	Date	Revision	Chkd. By

Plans Prepared By:
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PAI Project No. 14-0166

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Phone: (419) 592-4010
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Industrial Drive Street Extension
Title Sheet

Created: 4/24/14 | Plotted: 6/16/14 | Scale: N.T.S.
Drawn: Scott A. McDowell | Approved: Todd Jenkins
Drawing Name: 01-TITLE.dwg

Sheet 01 Of 13

Miscellaneous Crossings

1. All Sanitary, Storm, And Field Drains Intercepted Shall Be Repaired With The Correct Size Of PVC ASTM D3034 SDR–35. When Connecting To Existing Pipes, Flexible Couplings With Stainless Steel Bands Shall Be Used. No Connections Shall Be Backfilled Until Approved By The Engineer Or Authorized Representative.

2. When A Proposed Sewer And/Or Waterline Crosses Under An Existing Sewer And/Or Waterline, The Entire Trench Area Under The Existing Sewer And/Or Waterline Shall Be Backfilled With Granular Bedding Material To A Minimum Of Six (6) Inches Above The Top Of The Existing Sewer And/Or Waterline.

General Notes

1. Contraction Joints Shall Be ¼" Minimum Width And The Depth Shall Be A Minimum Of ¼ Of The Slab Thickness.

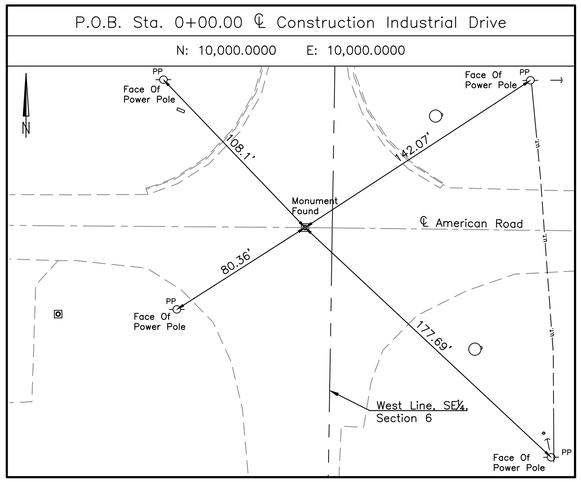
2. All Curb Joints Shall Be Constructed Perpendicular To The Edge Of The Curb And To The Surface Of The Pavement.

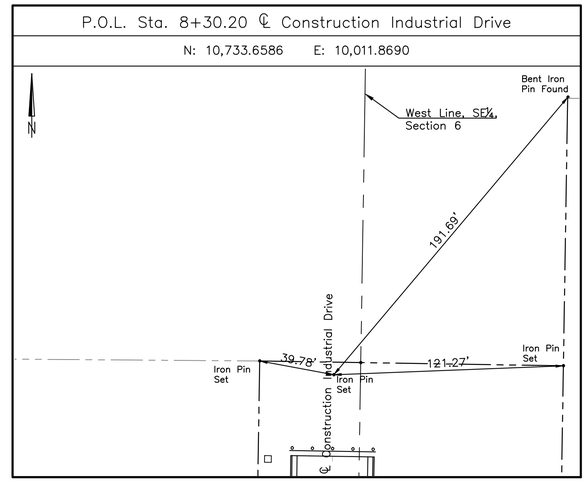
3. At Sag Vertical Curves, The Catch Basins Within The Roadway Shall Be Depressed 0.06' Below The Normal Transverse Slope Of The Curb And Gutter Section, And The Gutter Grade Shall Be Transitioned Back To The Normal Section From The Casting To The Expansion Joint In Both Directions Without Disturbing The Grade At The Edge Of The Pavement.

4. Where The Sidewalk Intersects A Proposed Curb, Curb Ramps Shall Be Constructed In Accordance With The Plan Details. Ramps Shall Meet The Most Current A.D.A. Requirements At The Time Of Construction.

L E G E N D

- = Existing Sanitary Manhole
- = Proposed Sanitary Manhole
- = Existing Catch Basin Or Curb Inlet
- = Proposed Catch Basin Or Curb Inlet
- FH = Existing Fire Hydrant Assembly
- = Proposed Fire Hydrant Assembly
- WV = Existing Water Valve
- CV = Existing Curb Valve
- Meter Pit = Existing Meter Pit
- = Proposed Water Valve Or Curb Valve
- GV = Existing Gas Valve
- Gas Pit = Existing Gas Meter
- CO = Existing Sanitary Service Clean Out
- DS = Existing Down Spout
- = Proposed Sanitary Service Clean Out
- = Existing Post
- = Existing Sign
- = Existing Yard Light
- = Existing Structure
- PP = Existing Power Pole w/Guy Wire
- PP = Existing Power Pole
- LP = Existing Light Pole
- TP = Existing Telephone Pole
- MB = Mailbox
- = Monument Box
- = Control Point (Iron Pin Or PK Nail)
- = Proposed Construction
- = Existing Concrete To Be Removed
- = Existing Pavement To Be Resurfaced
- 30" = Existing Tree Or Bush To Be Removed
- 30" = Existing Tree Stump
- 30" = Existing Pine Tree
- 30" = Existing Tree Or Bush
- = Existing Tree Or Bush Row
- 0+00 = Centerline
- = Existing Property Line
- = Existing Right Of Way
- = Existing Landscaping
- = Existing Guardrail
- = Existing Fence
- = Existing Gas (Plan View)
- = Existing Gas (Profile View)
- = Existing Telephone (Plan View)
- = Existing Telephone (Profile View)
- = Existing Buried Electric (Plan View)
- = Existing Buried Electric (Profile View)
- = Existing Water (Plan View)
- = Existing Water (Profile View)
- = Existing Storm
- = Existing Sanitary
- = Abandon (Typ.)
- = Remove (Typ.)
- = Proposed Water (Plan View)
- = Proposed Water (Profile View)
- = Proposed Storm
- = Proposed Sanitary
- = Construction Limits





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PAI Project No. 14-0166

City Of Napoleon
Engineering Department
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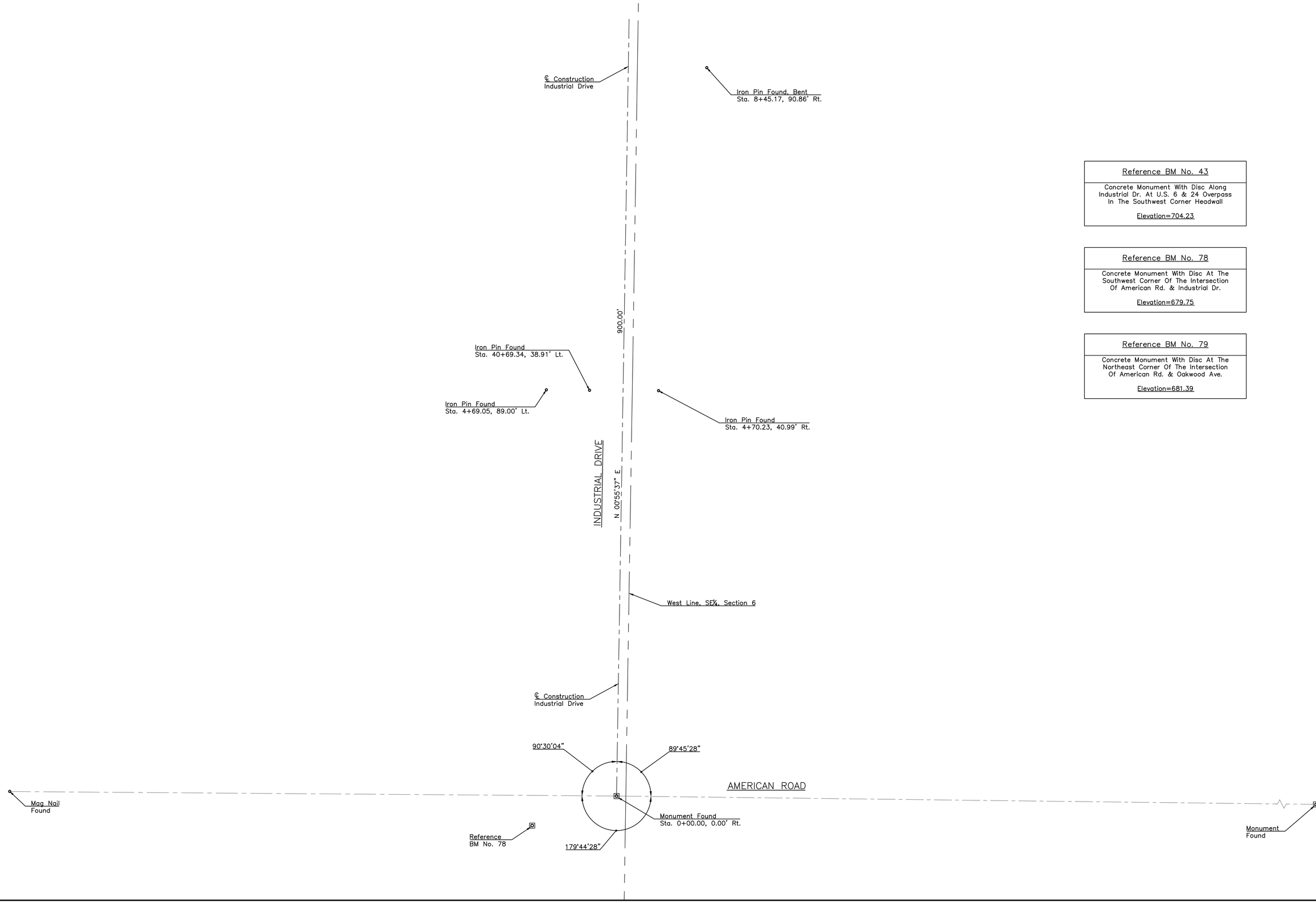
Napoleon, Ohio 43545
Phone: (419) 592-4010
Fax: (419) 599-8393

Industrial Drive Street Extension
Standard Details Sheets

Scale: N.T.S.
Approved: Todd Jenkins
Plotted: 6/26/14
Created: 4/24/14
Drawn: Scott A. McDowell
Drawing Name: 02-DETAILS.dwg

Sheet 02 Of 13



Reference BM No. 43
Concrete Monument With Disc Along Industrial Dr. At U.S. 6 & 24 Overpass In The Southwest Corner Headwall Elevation=704.23

Reference BM No. 78
Concrete Monument With Disc At The Southwest Corner Of The Intersection Of American Rd. & Industrial Dr. Elevation=679.75

Reference BM No. 79
Concrete Monument With Disc At The Northeast Corner Of The Intersection Of American Rd. & Oakwood Ave. Elevation=681.39

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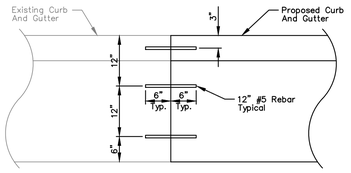
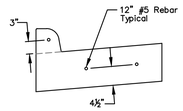
Industrial Drive Street Extension
Standard Details Sheets
Schematic Plan

Created: 4/24/14
Plotted: 5/29/14
Scale: 1"=50'
Drawn: Scott A. McDowell
Approved: Todd Jenkins
Drawing Name: 03-DETAILS.dwg

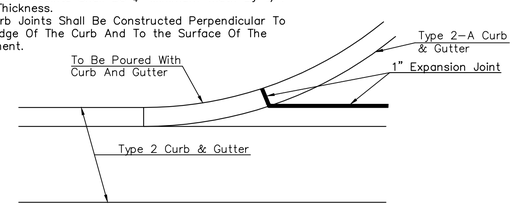
Sheet 03 Of 13





Curb Connection Detail
N.T.S.

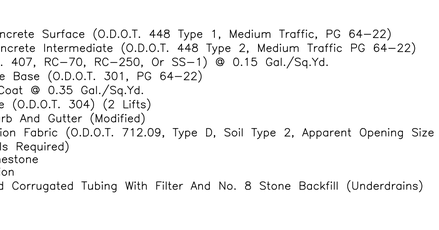
Notes:
1. Contraction Joints Shall Be ¼" Minimum Width By 1/4 Slab Thickness.
2. All Curb Joints Shall Be Constructed Perpendicular To The Edge Of The Curb And To the Surface Of The Pavement.



Expansion Joint Detail

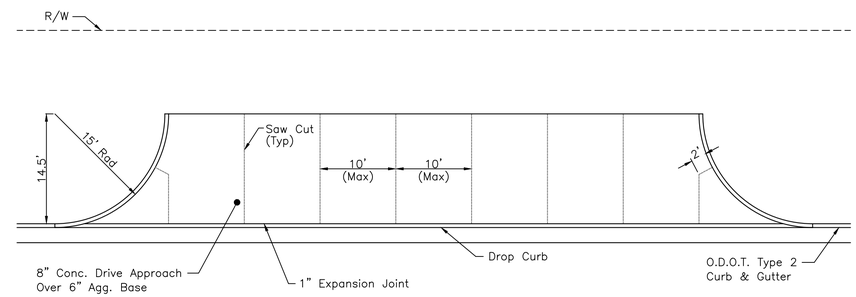
Drive Approach Schedule

Station	Side	Width L.F. @ Curb	Width L.F. @ Existing	℄ Length L.F.	Area Of 6" Conc. S.Y.	Area Of 8" Conc. S.Y.	Type 2A Curb L.F.	Asph. Conc. Surface (ODOT 448) Type 1 Med. PG 64–22 C.Y.	Asphalt Concrete Base (ODOT 301) PG 64–22 C.Y.	Stabilized Crushed Aggregate (ODOT 411) C.Y.	Aggregate Base (ODOT 304)* C.Y.
Industrial Drive											
5+50.00	Rt.	130.00'	100.00'	14.50'		172.75	47.12'				28.79

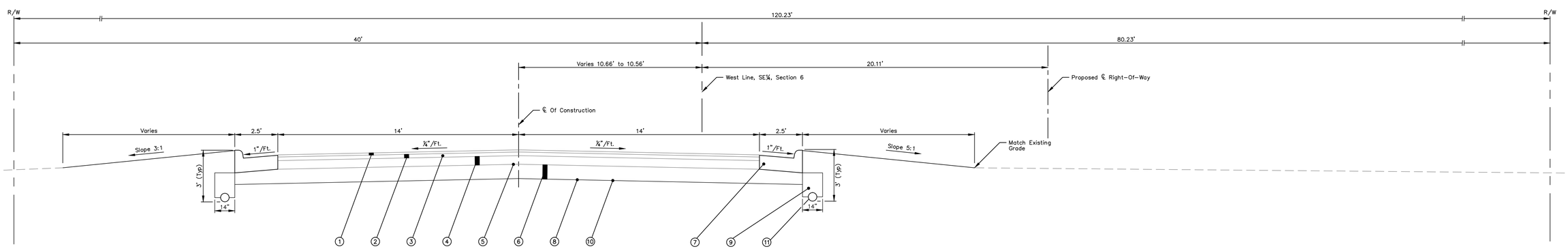


Type 2 Curb And Gutter, Modified

Type 2–A Curb And Gutter



Commercial Concrete Drive Approach



STA. 4+56.50 TO STA. 8+30.20

1. 1 1/2" Asphalt Concrete Surface (O.D.O.T. 448 Type 1, Medium Traffic, PG 64–22)
2. 2 1/2" Asphalt Concrete Intermediate (O.D.O.T. 448 Type 2, Medium Traffic PG 64–22)
3. Tack Coat (O.D.O.T. 407, RC–70, RC–250, Or SS–1) @ 0.15 Gal./Sq.Yd.
4. 6" Asphalt Concrete Base (O.D.O.T. 301, PG 64–22)
5. Bituminous Prime Coat @ 0.35 Gal./Sq.Yd.
6. 10" Aggregate Base (O.D.O.T. 304) (2 Lifts)
7. O.D.O.T. Type 2 Curb And Gutter (Modified)
8. Subgrade Stabilization Fabric (O.D.O.T. 712.09, Type D, Soil Type 2, Apparent Opening Size = 3mm) (Omit If Undercut Is Required)
9. No. 8 Crushed Limestone
10. Subgrade Compaction
11. 6" HDPE Perforated Corrugated Tubing With Filter And No. 8 Stone Backfill (Underdrains)

Note: If Subgrade Is Determined During Construction To Be Inadequate, Subgrade Shall be Undercut To A Depth As Determined By The City. Structural Geogrid And #1 & #2 Stone Shall Be Placed. Stone Shall Be Compacted And Typical Section Shall Be Installed Over Compacted Stone.

No.	Date	Revision	Chkd. By

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PAI Project No. 14–0166

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Engineering Department
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Napoleon, Ohio 43545
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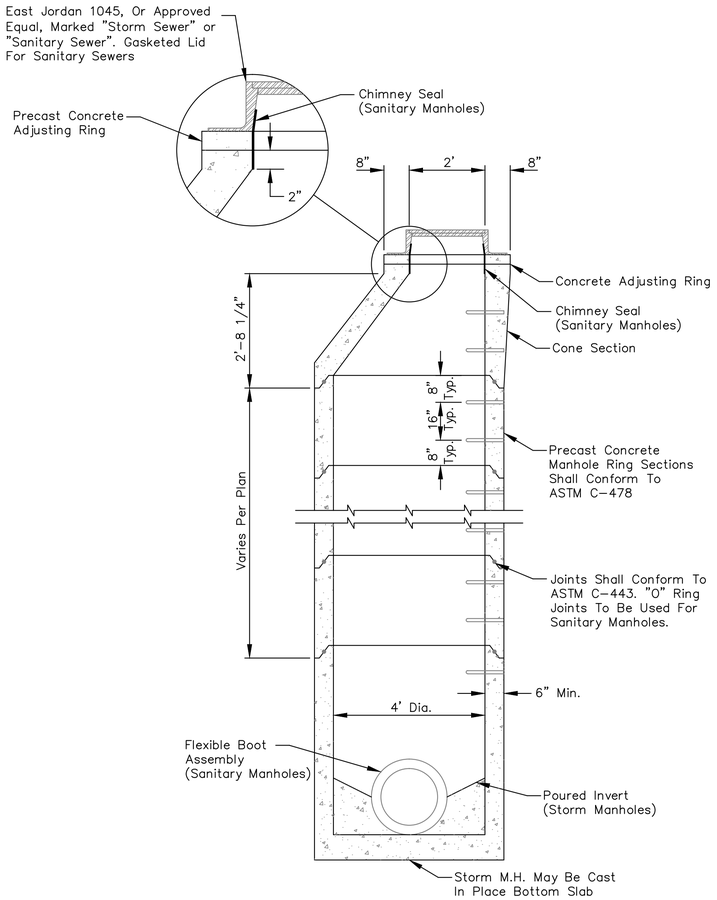
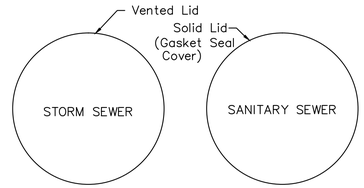
Industrial Drive Street Extension
Standard Details Sheet
Typical Sections

Scale: N.T.S.
Plotted: 5/29/14
Approved: Todd Jenkins
Created: 4/24/14
Drawn: Scott A. McDowell
Drawing Name: 04–DETAILS.dwg

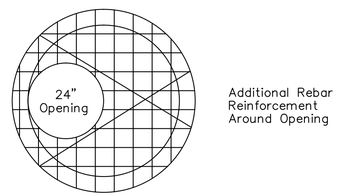


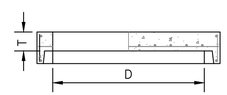
48" Manhole With Standard Cone



Plan View

Manhole Lids



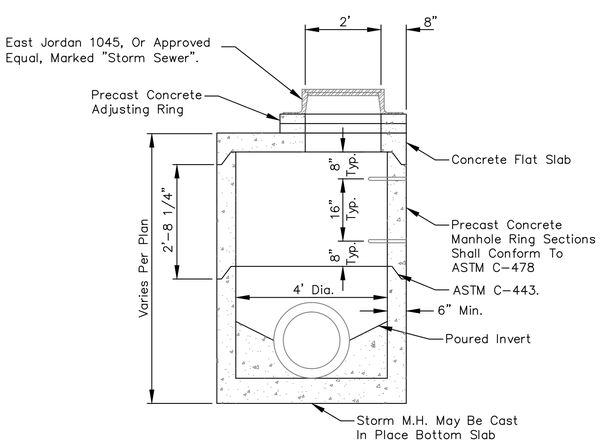


Dia. D	Steel Reinforcement & Spacing	Slab Thick. "T"
48"	No. 4 on 6" Centers	6"
60"	No. 4 on 6" Centers	8"
72"	No. 6 on 5-1/2" Centers	8"

Manhole Flat Slab Top

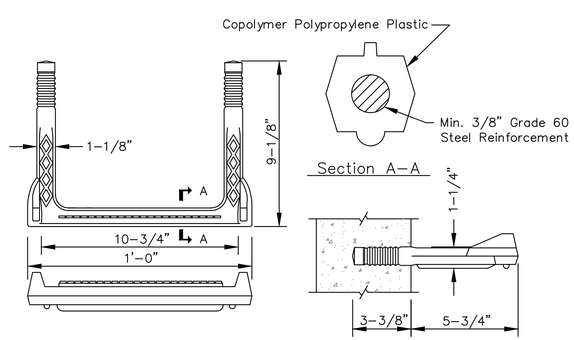
Manhole Schedule

Sht. No.-MH No.	Manhole Type	Casting Elevation	Invert Elevation	Approx. Depth To Invert	MH Step Location	Remarks
Industrial Drive (Sta. 0+00.00 To Sta. 5+40.00)						
9-1	Ex. Storm					No Work
9-2	Ex. Sanitary					No Work
9-3	Ex. Storm					No Work
9-4	Ex. Sanitary					No Work
9-5	Ex. Storm					Remove
9-6	Ex. Sanitary					No Work
Industrial Drive (Sta. 5+40.00 To Sta. 10+00.00)						
10-1	Pro. Sanitary	679.11	662.12	16.99'	S	



48" Storm Manhole With Flat Slab Top

(To Be Used On Manhole Less Than 6' Deep)



Manhole Step Detail

No.	Date	Revision	Chkd. By

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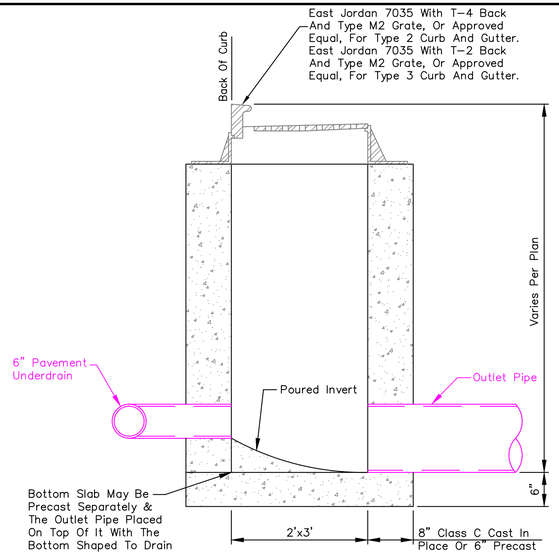
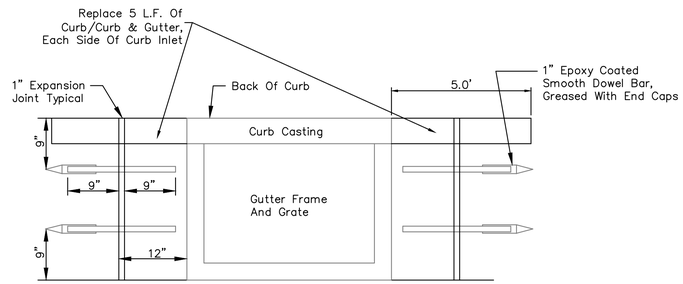
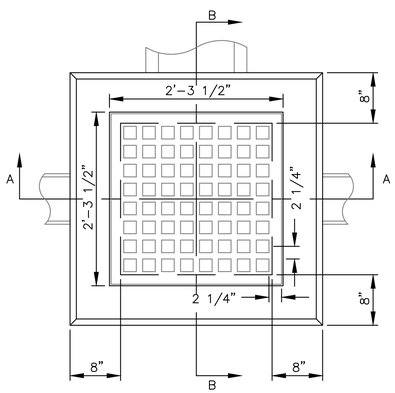
Industrial Drive Street Extension
Standard Details Sheet
Manhole Schedule

Created: 4/24/14 | Plotted: 6/26/14 | Scale: N.T.S.
Drawn: Scott A. McDowell | Approved: Todd Jenkins
Drawing Name: 05-DETAILS.dwg

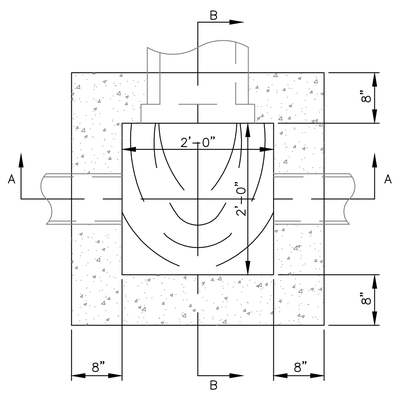




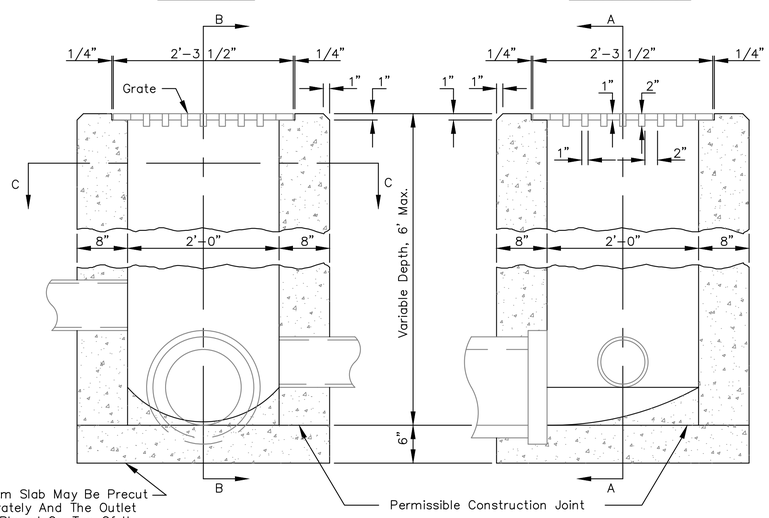
Curb Inlet 2'x3'



Plan View



Section C-C



Section A-A

Section B-B

Standard No. CB-2-2B Catch Basin

Catch Basin Schedule

Sht. No.-CB No.	Catch Basin Type	Casting Elevation	Invert Elevation	Approx. Depth To Invert	Point Of Connection	Remarks
Industrial Drive (Sta. 0+00.00 To Sta. 5+40.00)						
9-1	Pro. CB-2-2B	680.94	675.18	5.76'	18" To Ditch	
9-2	Exist. CB-2-3					Plug Ex. 12" West
9-3	Exist. CB-2-3					No Work
9-4	Pro. CB-2-2B	680.02	675.35	4.67'	18" - CB9-1	
Industrial Drive (Sta. 5+40.00 To Sta. 10+00.00)						
10-1	Pro. CB-2-2B	678.99	675.48	3.51'	18" - CB9-4	
10-2	Pro. CB-2-3	679.02	675.52	3.50'	12" - CB10-1	
10-3	Pro. CB-2-3	679.02	675.65	3.37'	12" - CB10-2	

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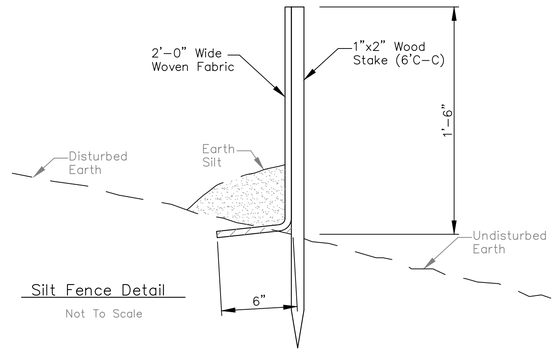
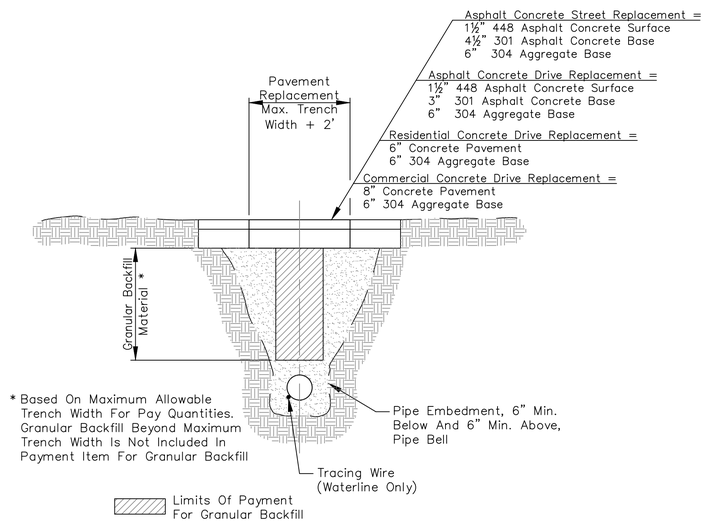
Industrial Drive Street Extension
Standard Details Sheet
Catch Basin Schedule

Created: 4/24/14 | Plotted: 6/2/14 | Scale: N.T.S.
Drawn: Scott A. McDowell | Approved: Todd Jenkins
Drawing Name: 06-DETAILS.dwg

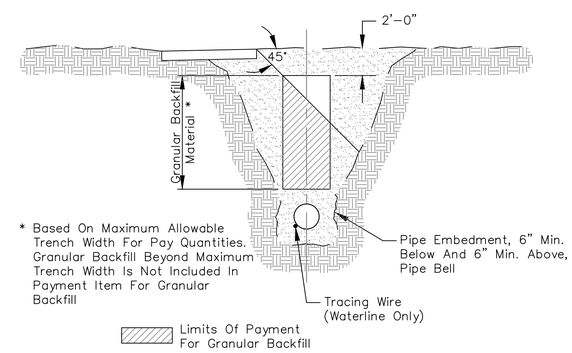


Silt Fence Detail

Not To Scale



Granular Backfill
Inside Pavement



Granular Backfill
Outside Pavement

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Industrial Drive Street Extension
Standard Details Sheet
Sewer Details

Created: 4/24/14
Plotted: 5/29/14
Scale: N.T.S.
Drawn: Scott A. McDowell
Approved: Todd Jenkins
Drawing Name: 07-DETAILS.dwg

Sheet 07 Of 13

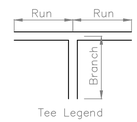
Leakage Test Table
(AWWA C600 – Table 6)

Test Pressure	Nominal Pipe Diameter									
P.S.I.	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
150	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21
	Allowable Leakage Per 1,000 Feet Of Pipeline In G.P.H.									

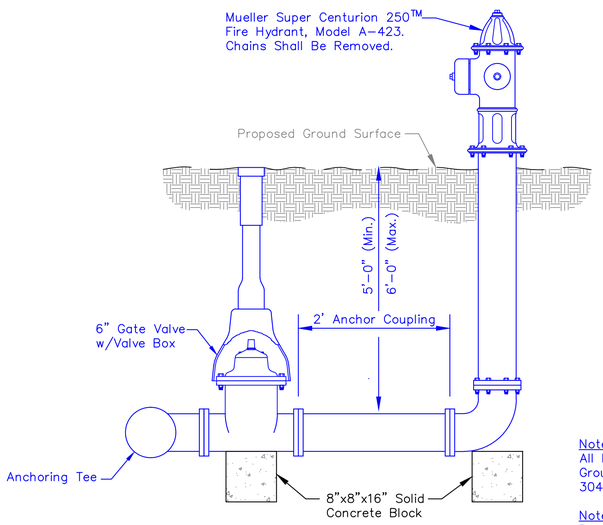
Note: If The Pipeline Under Test Contains Sections Of Various Diameters, The Allowable Leakage Will Be The Sum Of The Computed Leakage For Each Size.

Deflection Angle	Type of Bend	PVC Pipe Size									
		2"&3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
11–1/4°	Horiz.	4'	4'	4'	4'	4'	4'	4'	4'	4'	4'
	Vertical	4'	4'	5'	6'	8'	9'	10'	12'	13'	15'
22–1/2°	Horiz.	4'	4'	4'	4'	4'	5'	5'	6'	7'	7'
	Vertical	6'	7'	10'	13'	15'	18'	21'	24'	27'	29'
45°	Horiz.	4'	4'	5'	7'	8'	9'	11'	12'	14'	15'
	Vertical	12'	14'	20'	27'	32'	38'	44'	50'	55'	61'
90°	Horiz.	7'	9'	12'	16'	19'	23'	26'	30'	33'	36'
	Vertical	20'	25'	35'	47'	56'	67'	76'	86'	96'	105'
Tees	Run	4'	4'	5'	7'	8'	8'	8'	8'	8'	8'
	Branch	4'	4'	4'	4'	4'	14'	23'	34'	43'	53'
Dead Ends		20'	24'	35'	46'	56'	66'	76'	87'	97'	107'
		Minimum Distance Restrained In Each Direction From Fitting.									

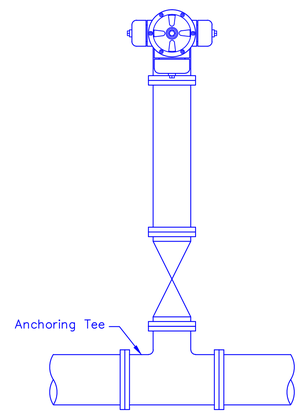
RESTRAINED JOINT TABLE – 150 psi
(BACKHOE EXCAVATION)



Note:
Restrained Joints For fittings Shall Be EBAA Iron, Inc. Mega–Lug Series 1100 For DIP And Series 2000 For PVC Or Approved Equal. Bell Clamp Restraints For DIP With Push–on Joints Shall Be EBAA Iron, Inc. Series 800 "Coverall", Or Approved Equal. Bell Clamp Restraints For PVC Pipe Shall Be EBAA Iron, Inc. Series 1600 Restraint Harness. All Bolts And Nuts Shall Be Cor–Ten.



Profile View



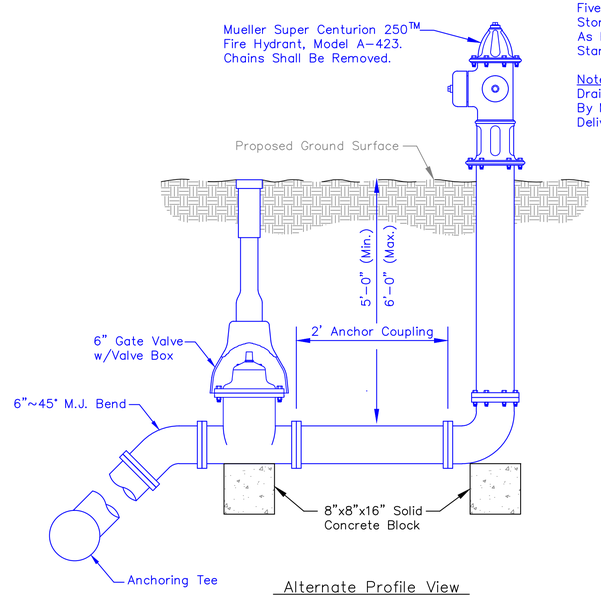
Plan View

Note:
All Bolts Below Proposed Ground Surface Shall Be 304 SS (Minimum)

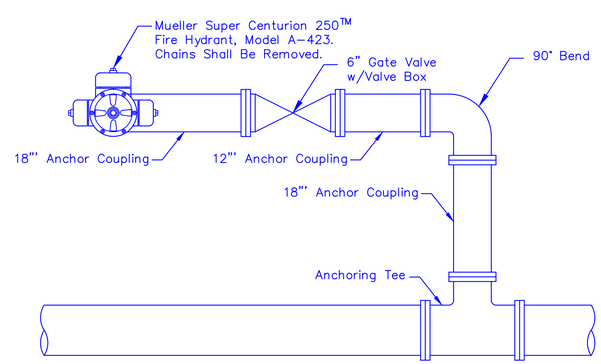
Note:
Rotate Hydrant To Face Road.

Note:
Five (5) Inch Harrington Storz Pumper Connection As Per City Of Napoleon's Standard Specifications.

Note:
Drain Holes Shall Be Plugged By Manufacturer Prior To Delivery

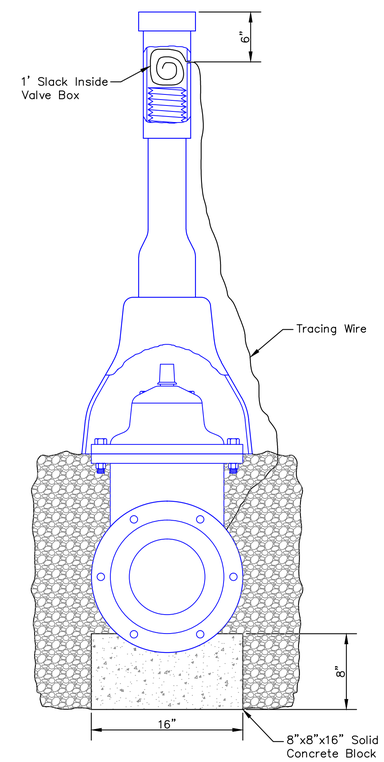


Alternate Profile View



Alternate Plan View

Hydrant Assembly Detail



Tracing Wire Detail

No.	Date	Revision	Chkd. By

Plans Prepared By:
Peterman Associates, Inc.
3480 North Main Street
Findlay, Ohio 45840
Phone: (419) 422–6672
Fax: (419) 422–9466
PAI Project No. 14–0166

City Of Napoleon
Engineering Department
255 West Riverview Avenue
Napoleon, Ohio 43545
Phone: (419) 592–4010
Fax: (419) 599–8393

Industrial Drive Street Extension
Standard Details Sheet
Waterline Details

Created: 4/24/14 | Plotted: 5/29/14 | Scale: N.T.S.
Drawn: Scott A. McDowell | Approved: Todd Jenkins
Drawing Name: 08–DETAILS.dwg

Reference BM No. 78

Concrete Monument With Disc At The Southwest Corner Of The Intersection Of American Rd. & Industrial Dr.

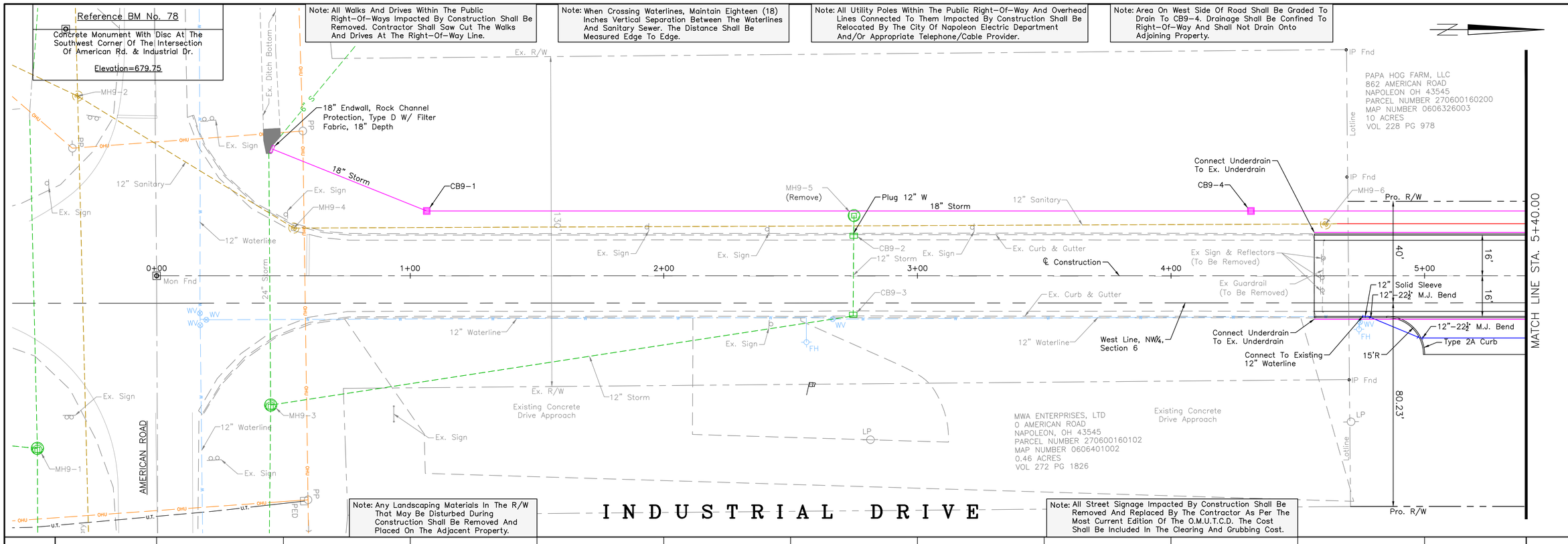
Elevation=679.75

Note: All Walks And Drives Within The Public Right-Of-Ways Impacted By Construction Shall Be Removed. Contractor Shall Saw Cut The Walks And Drives At The Right-Of-Way Line.

Note: When Crossing Waterlines, Maintain Eighteen (18) Inches Vertical Separation Between The Waterlines And Sanitary Sewer. The Distance Shall Be Measured Edge To Edge.

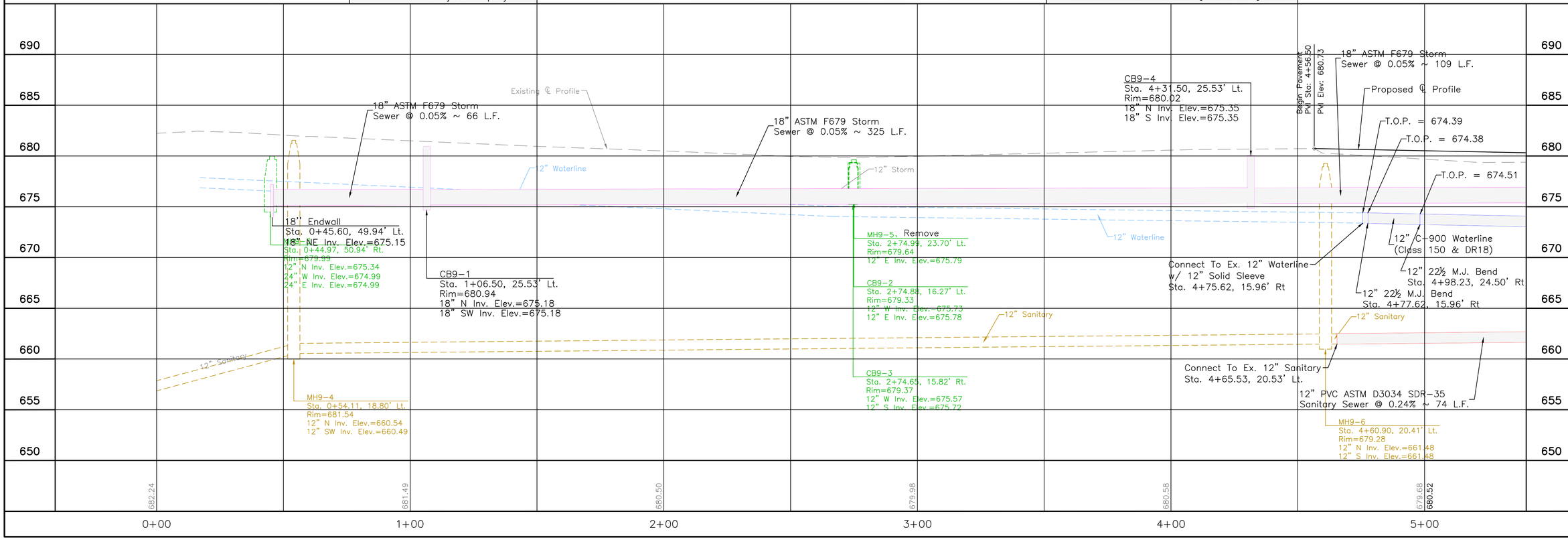
Note: All Utility Poles Within The Public Right-Of-Way And Overhead Lines Connected To Them Impacted By Construction Shall Be Relocated By The City Of Napoleon Electric Department And/Or Appropriate Telephone/Cable Provider.

Note: Area On West Side Of Road Shall Be Graded To Drain To CB9-4. Drainage Shall Be Confined To Right-Of-Way And Shall Not Drain Onto Adjoining Property.



Note: Any Landscaping Materials In The R/W That May Be Disturbed During Construction Shall Be Removed And Placed On The Adjacent Property.

Note: All Street Signage Impacted By Construction Shall Be Removed And Replaced By The Contractor As Per The Most Current Edition Of The O.M.U.T.C.D. The Cost Shall Be Included In The Clearing And Grubbing Cost.



No.	Date	Revision	Chkd. By

Plans Prepared By:
Peterman Associates, Inc.
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PAI Project No. 14-0166

City Of Napoleon
Engineering Department
255 West Riverview Avenue
Napoleon, Ohio 43545
Phone: (419) 592-4010
Fax: (419) 599-8393

Industrial Drive Street Extension Plan & Profile Sta. 0+00.00 To Sta. 5+40.00

Scale: H: 1"=20' V: 1"=5'
Plotted: 6/13/14
Approved: Todd Jenkins
Created: 4/24/14
Drawn: Scott A. McDowell
Drawing Name: 10-INDUSTRIAL DRIVE PP.dwg

Industrial Drive Street Extension: Plan & Profile Sta. 0+00.00 To Sta. 5+40.00

Reference BM No. 78

Concrete Monument With Disc At The Southwest Corner Of The Intersection Of American Rd. & Industrial Dr.

Elevation=679.75

Note: All Walks And Drives Within The Public Right-Of-Ways Impacted By Construction Shall Be Removed. Contractor Shall Saw Cut The Walks And Drives At The Right-Of-Way Line.

Note: When Crossing Waterlines, Maintain Eighteen (18) Inches Vertical Separation Between The Waterlines And Sanitary Sewer. The Distance Shall Be Measured Edge To Edge.

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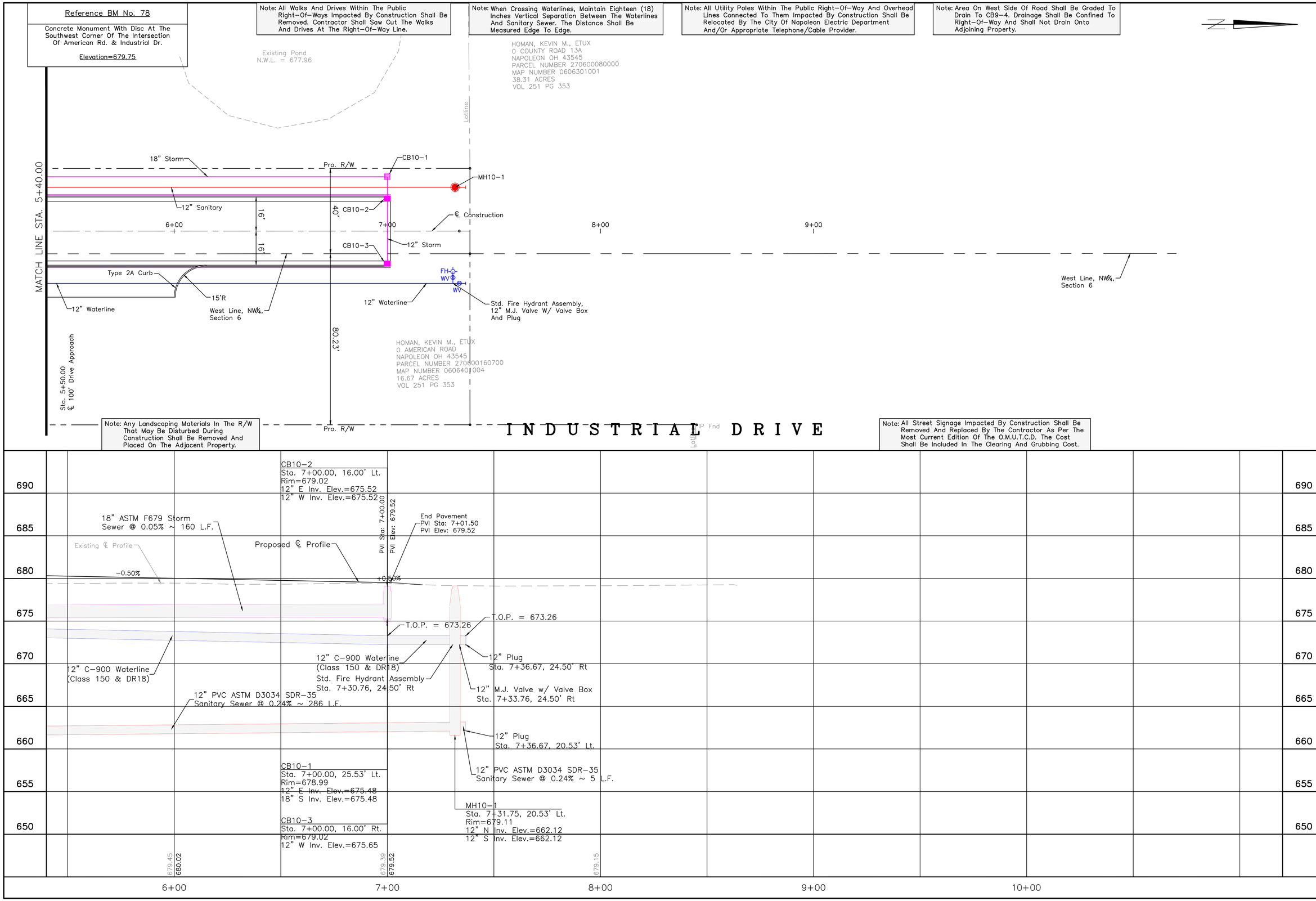

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Note: All Street Signage Impacted By Construction Shall Be Removed And Replaced By The Contractor As Per The Most Current Edition Of The O.M.U.T.C.D. The Cost Shall Be Included In The Clearing And Grubbing Cost.

No.	Date	Revision	Chkd. By

Plans Prepared By:
Peterman Associates, Inc.
3480 North Main Street
Findlay, Ohio 45840
Phone: (419) 422-6672
Fax: (419) 422-9466
PAI Project No. 14-0166

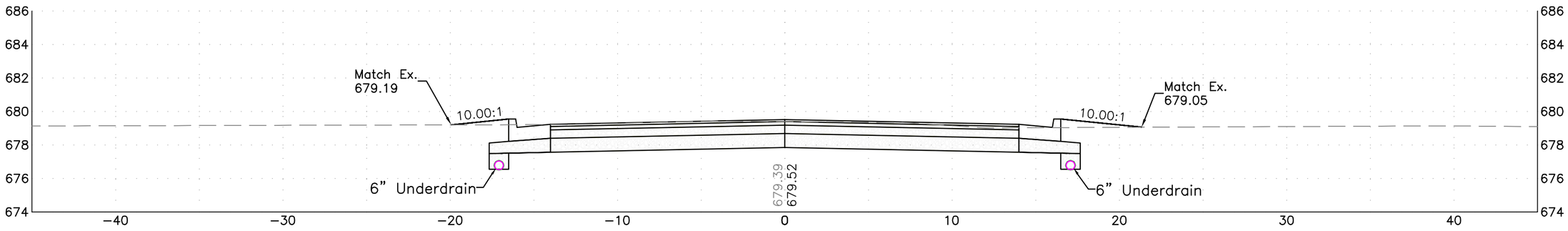
City Of Napoleon
Engineering Department
255 West Riverview Avenue
Napoleon, Ohio 43545
Phone: (419) 592-4010
Fax: (419) 599-8393

Industrial Drive Street Extension
Plan & Profile
Sta. 2+60.00 To Sta. 10+00.00

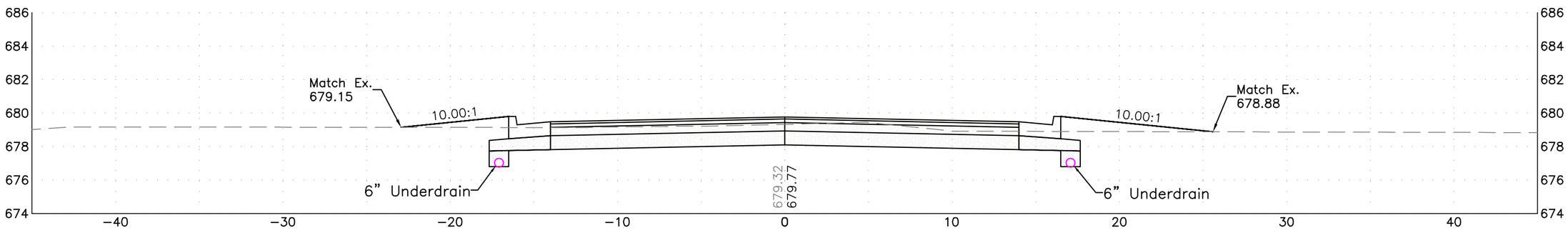
Scale: H: 1"=20' V: 1"=5'
Plotted: 7/1/14
Approved: Todd Jenkins
Created: 4/24/14
Drawn: Scott A. McDowell
Drawing Name: 10-INDUSTRIAL DRIVE PP.dwg

Industrial Drive Street Extension: Plan & Profile Sta. 5+40.00 To Sta. 10+00.00

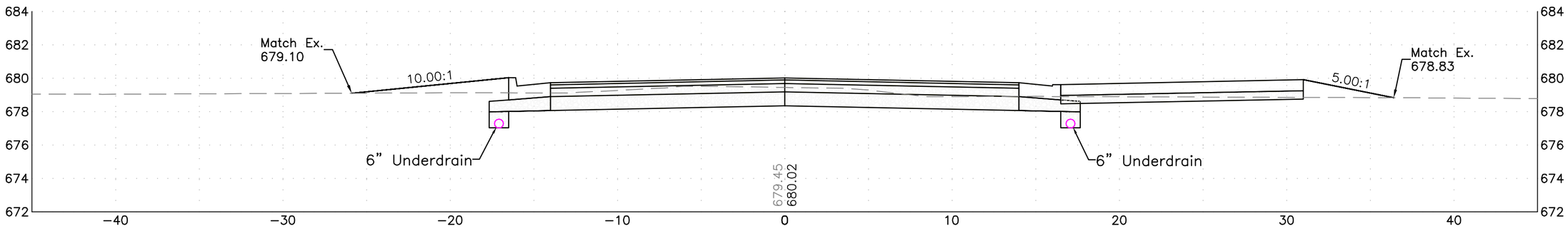
7+00.00 Low Point



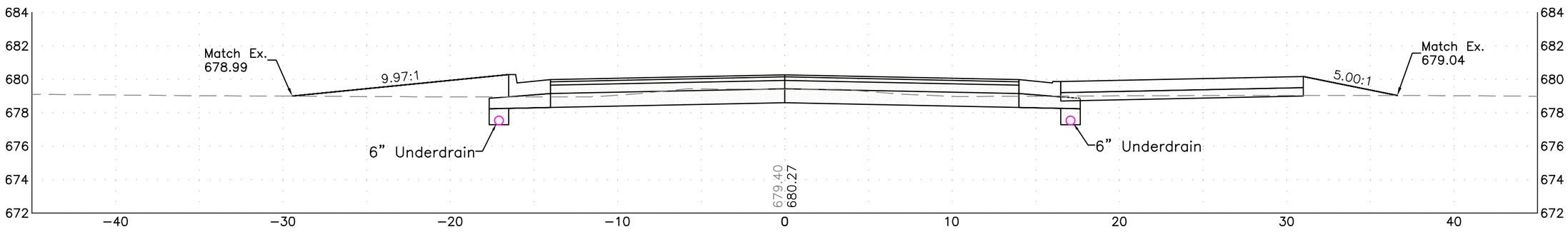
6+50.00



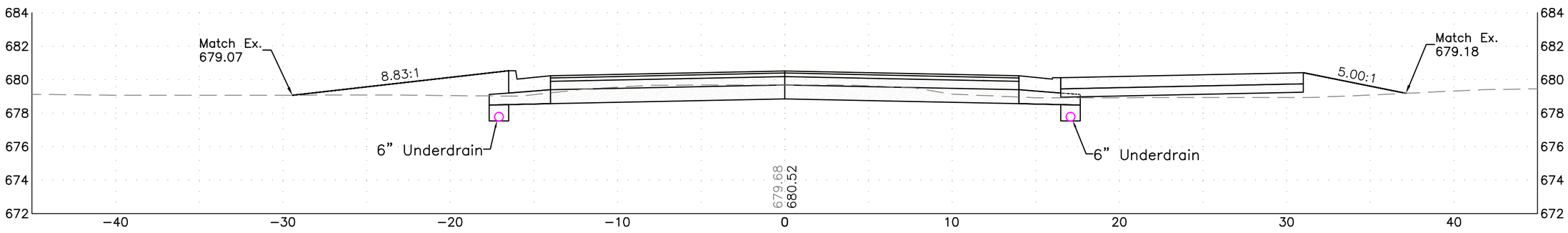
6+00.00



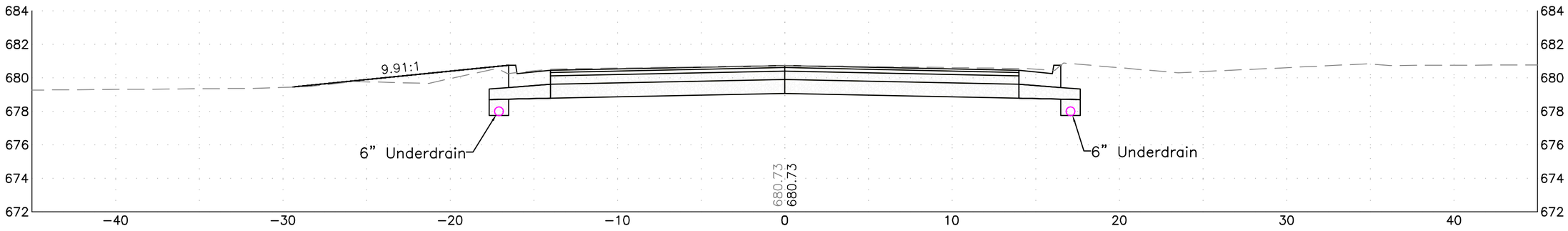
5+50.00 ℄ Drive Right



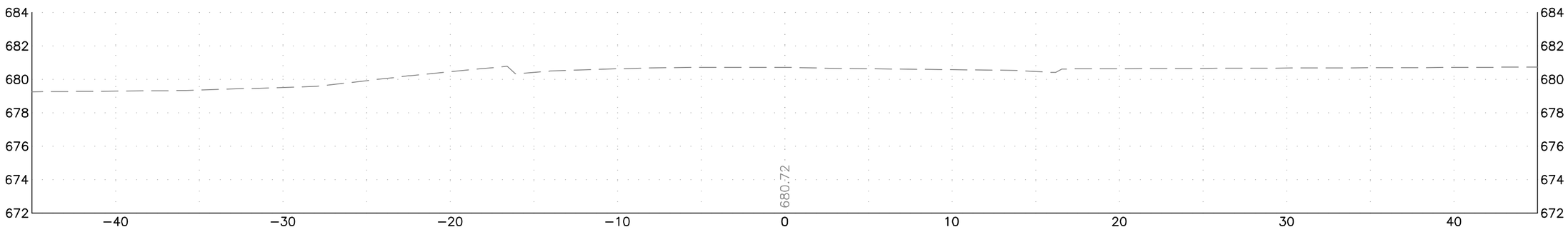
5+00.00



4+56.50



4+50.00



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7+00.00 Low Point	56.18	4.58	3.11	0.27
6+50.00	44.57	20.38	93.29	23.11
6+00.00	41.62	40.79	79.81	56.64
5+50.00 ℄ Drive Right	30.27	56.97	66.56	90.52
5+00.00	28.11	63.75	54.06	111.78
4+56.50	60.32	3.63	71.24	54.28
4+50.00	0.00	0.00	7.26	0.44
	Cut	Fill	Cut	Fill
	Area Sq. Ft.		Volume Cu. Yd.	
Sheet Totals			375.33	337.04
Project Totals			375.33	337.04

Industrial Drive Street Extension: Cross Sections Sta. 4+50.00 To Sta. 6+50.00

Sheet 11 Of 13

Created: 4/24/14 | Plotted: 6/11/14 | Scale: 1"=5'

Drawn: Scott A. McDowell | Approved: Todd Jenkins

Drawing Name: 09-INDUSTRIAL DRIVE PP.dwg

Industrial Drive Street Extension
Cross Sections
Sta. 4+50.00 To Sta. 6+50.00

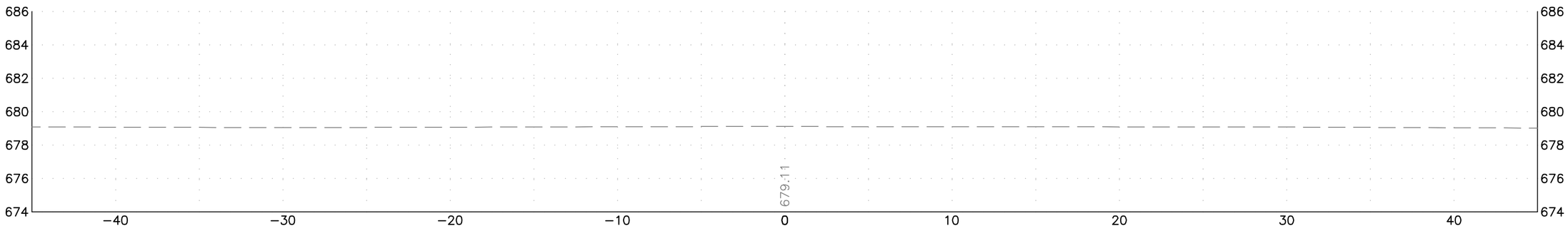
City Of Napoleon
Engineering Department
255 West Riverview Avenue
Napoleon, Ohio 43545
Phone: (419) 592-4010
Fax: (419) 599-8393

Plans Prepared By:
Peterman Associates, Inc.
3480 North Main Street
Findlay, Ohio 45840
Phone: (419) 422-6672
Fax: (419) 422-9466
PAI Project No. 14-0166

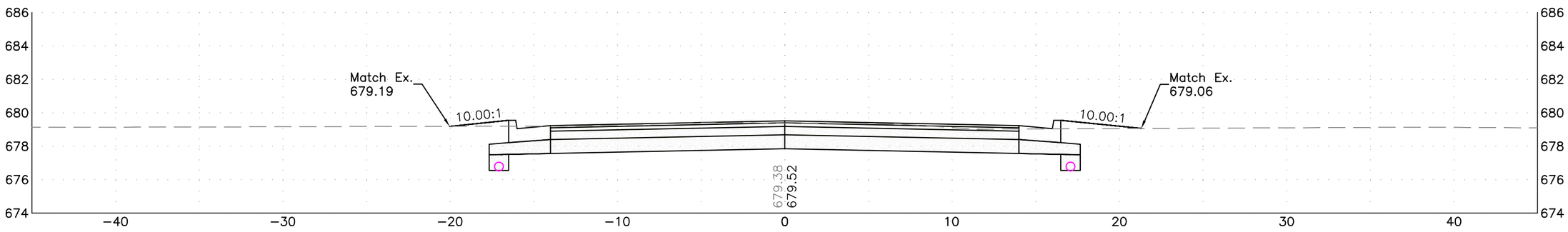
No.	Date	Revision	Chkd. By

Industrial Drive Street Extension: Cross Sections Sta. 7+01.50 To Sta. 7+50.00

7+50.00



7+01.50 End Pavement



Area Sq. Ft.		Volume Cu. Yd.	
Cut	Fill	Cut	Fill
0.00	0.00		
		49.99	4.58
55.66	5.10		
Cut	Fill	Cut	Fill
Area Sq. Ft.		Volume Cu. Yd.	
Sheet Totals		49.99	4.58
Project Totals		425.31	341.62

Sheet 12 Of 13

Created: 4/24/14	Plotted: 6/11/14	Scale: 1"=5'
Drawn: Scott A. McDowell	Approved: Todd Jenkins	
Drawing Name: 09-INDUSTRIAL DRIVE PP.dwg		

Industrial Drive Street Extension
Cross Sections
Sta. 7+01.50 To Sta. 7+50.00

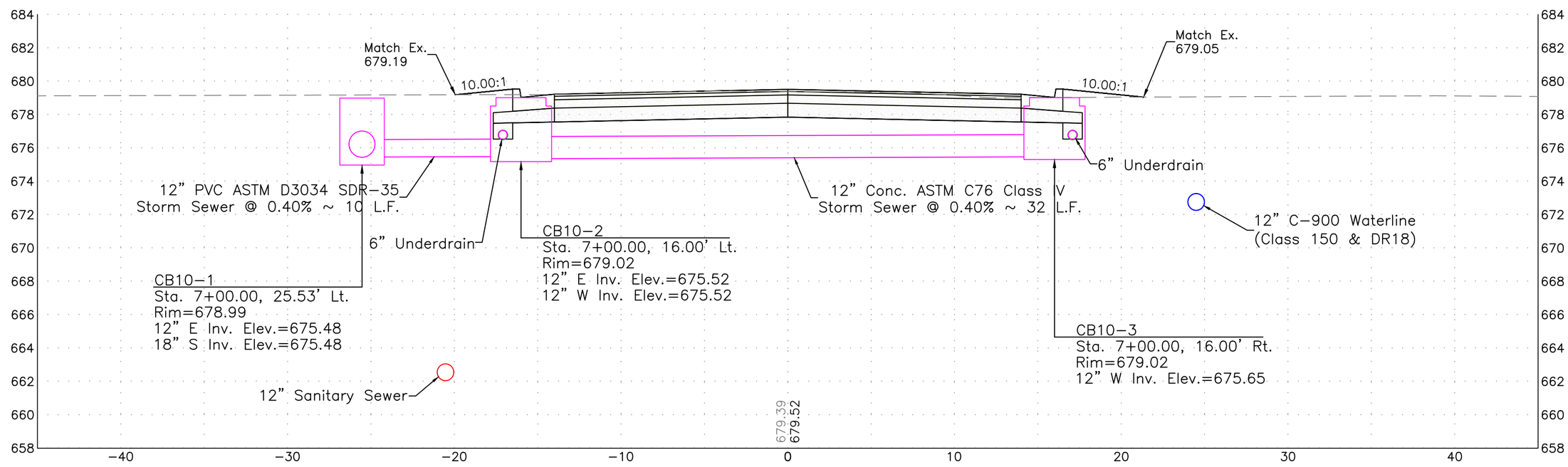
City Of Napoleon
Engineering Department
255 West Riverview Avenue
Napoleon, Ohio 43545
Phone: (419) 592-4010
Fax: (419) 599-8393

Napoleon
Heritage Values, Growing Opportunities

Plans Prepared By:
Peterman Associates, Inc.
3480 North Main Street
Findlay, Ohio 45840
Phone: (419) 422-6672
Fax: (419) 422-9466
PAI Project No. 14-0166

No.	Date	Revision	Chkd. By

7+00.00 Low Point



Sheet 13 Of 13	Created: 4/24/14	Plotted: 6/16/14	Scale: 1"=5'	Industrial Drive Street Extension Storm Leads Sta. 7+00.00	City Of Napoleon Engineering Department 255 West Riverview Avenue Napoleon, Ohio 43545 Phone: (419) 592-4010 Fax: (419) 599-8393	Napoleon Heartland Values, Flowing Opportunities	Plans Prepared By: Peterman Associates, Inc. 3480 North Main Street Findlay, Ohio 45840 Phone: (419) 422-6672 Fax: (419) 422-9466 PAI Project No. 14-0166	No.	Date	Revision	Chkd. By
	Drawn: Scott A. McDowell	Approved: Todd Jenkins									
	Drawing Name: 09-INDUSTRIAL DRIVE PP.dwg										

Industrial Drive Street Extension: Storm Leads Sta. 7+00.00