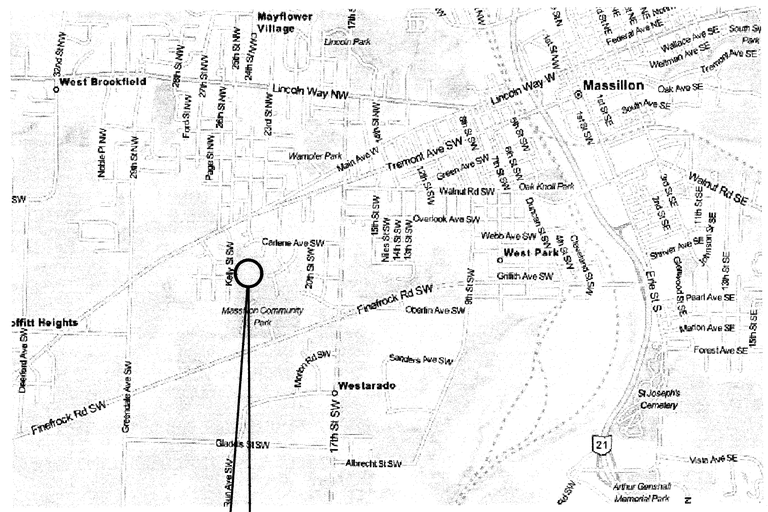
COUNTRY VIEW MEADOWS ALLOTMENT

CITY OF MASSILLON
STARK COUNTY, OHIO

LEGEND

- R/W — RIGHT OF WAY LINE
- PROPERTY LINE
- EXISTING CATCH BASIN
- MH — EXISTING MANHOLE
- WV — EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- LIGHT POLE
- POWER POLE
- IRON PIN
- OHU — EXISTING OVERHEAD UTILITY LINE
- G — EXISTING GASLINE
- W — EXISTING WATERLINE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- T — EXISTING TELEPHONE CABLE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- W — PROPOSED WATERLINE
- PROPOSED SANITARY MANHOLE



VICINITY MAP

PROJECT LOCATION

OWNER

MICHAEL PETROS
FAIRCREST PROPERTIES LTD.
5060 NAVARRE ROAD S.W., UNIT 2
CANTON, OHIO 44706

DEVELOPER

CROCKETT HOMES, INC.
5060 NAVARRE ROAD S.W., UNIT 2
CANTON, OHIO 44706
Ph. 330-479-8944

TOTAL LENGTH OF IMPROVEMENTS:	
STREET	2334 L.F.
STORM SEWER	3662 L.F.
SANITARY SEWER	725 L.F.
WATERLINE	2822 L.F.

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CITY OF MASSILLON — MASSILLON, OHIO

2/10/14
CITY ENGINEER

AQUA OHIO INC.
SUBJECT TO CONTRACT WITH AQUA OHIO INC.

OHIO ENVIROMENTAL PROTECTION AGENCY APPROVAL

SEWER APPROVED BY LETTER DATED

DESIGNED BY: CIVIL DESIGN ASSOCIATES, INC.

1/31/14
HARRY D. MATTER, P.E., P.S.

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PREPARED AND RECOMMENDED BY:

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

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TITLE SHEET
COUNTRY VIEW MEADOWS
ALLOTMENT
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS			
DESCRIPTION	DATE	BY	CHKD
REVISED PER: MASSILLON CITY COMMENTS	10/31/13	DNB	HDM

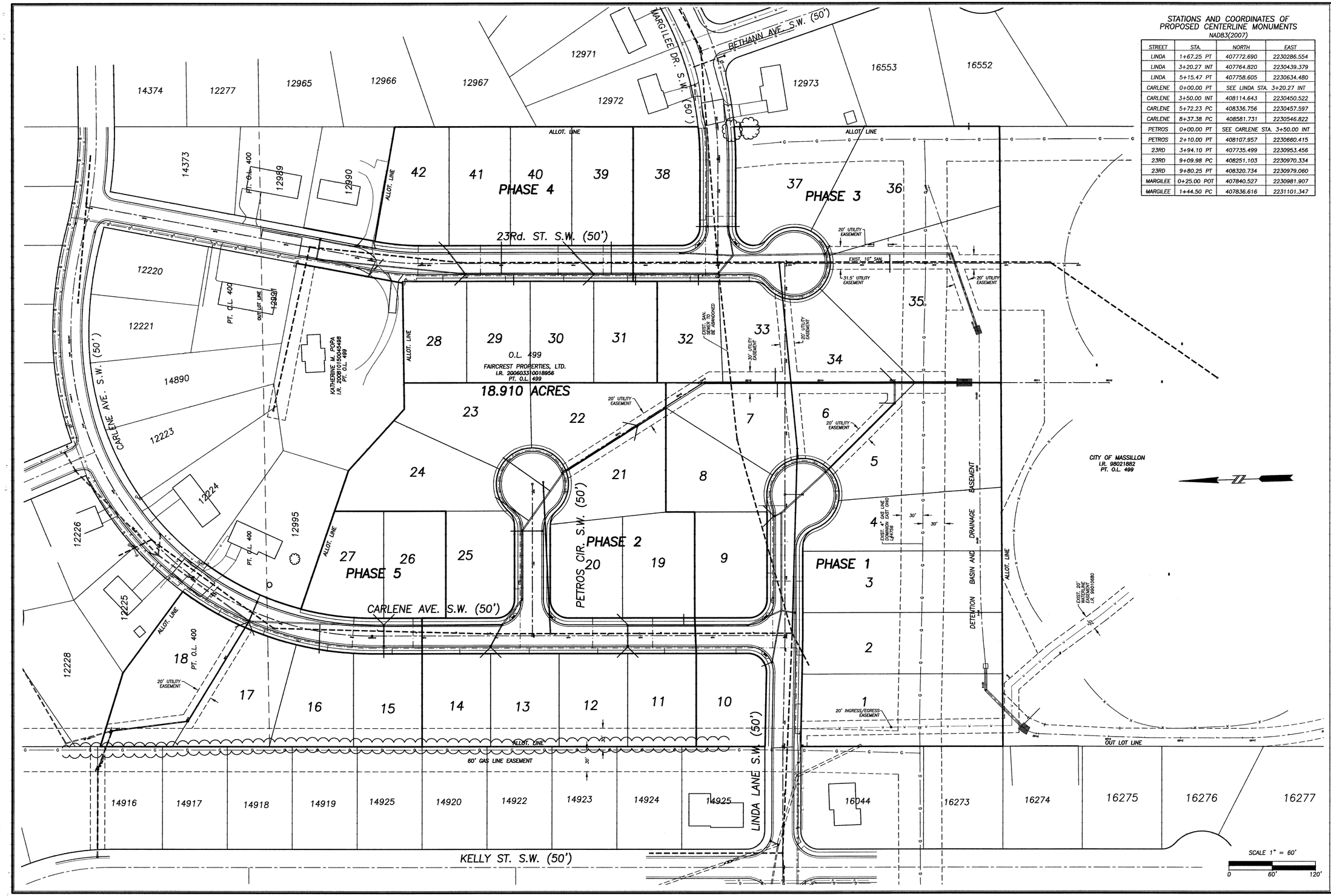
PROJECT No. 1319

SHEET No. 1

DATE: JULY, 2013

DRAWN BY: RDA

1319_TITLE



STATIONS AND COORDINATES OF PROPOSED CENTERLINE MONUMENTS

NAD83(2007)

STREET	STA.	NORTH	EAST
LINDA	1+67.25 PT	407772.690	2230286.554
LINDA	3+20.27 INT	407764.820	2230439.379
LINDA	5+15.47 PT	407758.605	2230634.480
CARLENE	0+00.00 PT	SEE LINDA STA. 3+20.27 INT	
CARLENE	3+50.00 INT	408114.643	2230450.522
CARLENE	5+72.23 PC	408336.756	2230457.597
CARLENE	8+37.38 PC	408581.731	2230546.822
PETROS	0+00.00 PT	SEE CARLENE STA. 3+50.00 INT	
PETROS	2+10.00 PT	408107.957	2230660.415
23RD	3+94.10 PT	407735.499	2230953.456
23RD	9+09.98 PC	408251.103	2230970.334
23RD	9+80.25 PT	408320.734	2230979.060
MARGILEE	0+25.00 POT	407840.527	2230981.907
MARGILEE	1+44.50 PC	407836.616	2231101.347

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SCHEMATIC PLAN
COUNTRY VIEW MEADOWS
LOCATED IN PART OF OUT LOTS 400 AND 499
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: MASSILLON CIY ENGINEER	10/30/13	RDA	DNB
REVISED PER: STORM SEWER REVISIONS	11/19/13	RDA	DNB
REVISED PER: MASSILLON CIY ENGINEER	1/24/14	DNB	HDM

PROJECT No. 1319

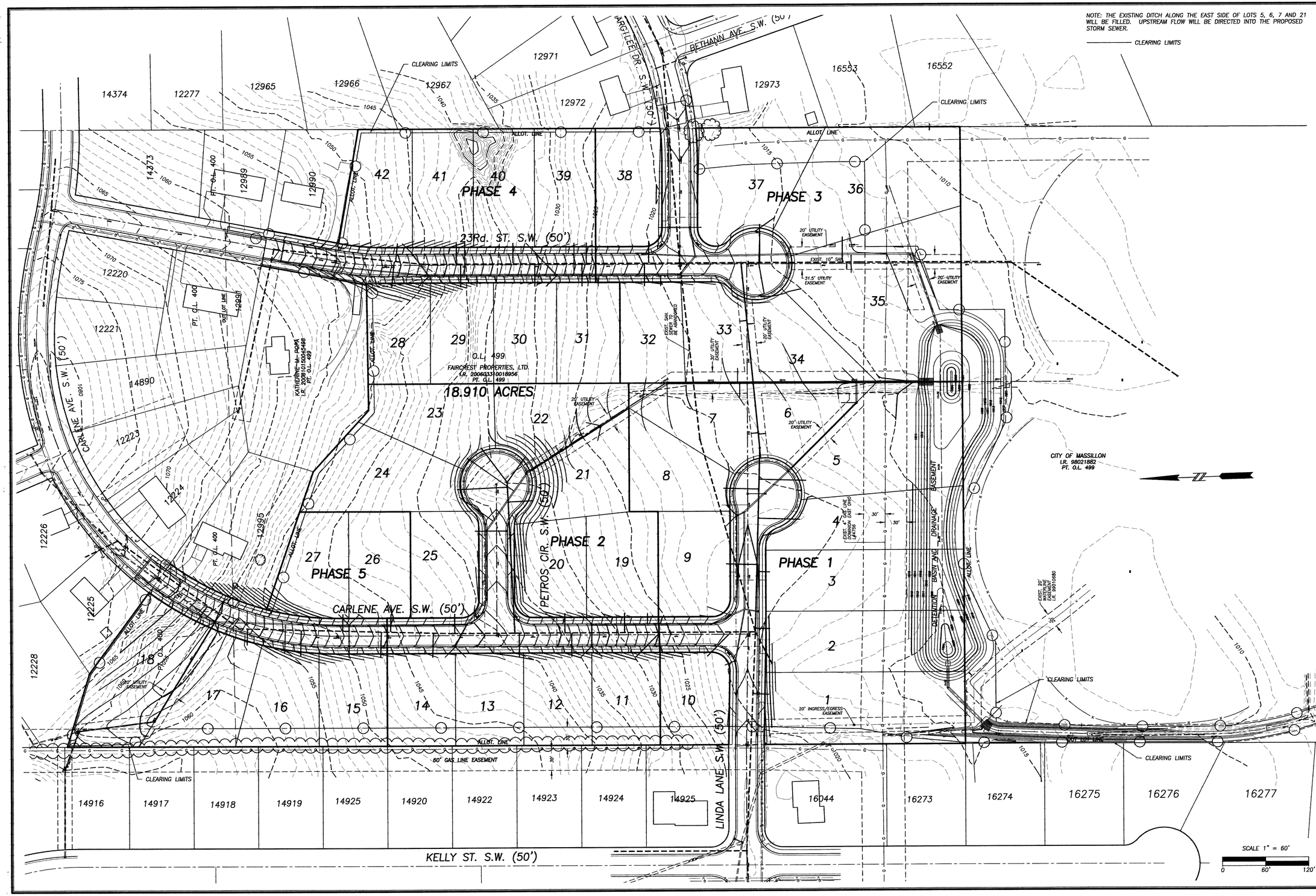
SHEET No. 2A

DATE: OCTOBER, 2013

DRAWN BY: DNB

1319_PP

NOTE: THE EXISTING DITCH ALONG THE EAST SIDE OF LOTS 5, 6, 7 AND 21 WILL BE FILLED. UPSTREAM FLOW WILL BE DIRECTED INTO THE PROPOSED STORM SEWER.



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GRADING PLAN
COUNTRY VIEW MEADOWS
LOCATED IN PART OF OUT LOTS 400 AND 499
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: MASSILLON CITY ENGINEER	10/29/13	RDA	DNB
REVISED PER: STORM SEWER REVISIONS	11/19/13	RDA	DNB
REVISED PER: CITY OF MASSILLON COMMENTS	1/21/14	DNB	RDA

PROJECT No.
1319

SHEET No.
2B

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_PP

CITY OF MASSILLON GENERAL NOTES:

1.) CONTRACTOR SHALL CHECK DETAIL DRAWINGS FOR MINIMUM GRADE AND BACKFILL REQUIREMENTS.

2.) ALL COMBINATION CONCRETE CURB AND GUTTER TO BE MASSILLON STANDARD EXCEPT WHERE VARIATIONS ARE TO BE EXTENDED OR MET - SEE SPECIFICATION BOOK AND PLANS.

3.) EXCAVATION FOR CONCRETE CURB AND GUTTER SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF SAID CURB AND GUTTER.

4.) ALL CATCH BASINS AND MANHOLES TO BE ADJUSTED TO GRADE WHERE NECESSARY

5.) ALL CONCRETE TO BE 1 : 2: 4 - 6 BAG MIX. 28 DAY - 3000 PSI COMPRESSIVE STRENGTH: MAX. SLUMP TO BE 4".

6.) ALL MATERIALS USED WILL BE NEW - NO SALVAGED MATERIAL WILL BE ACCEPTED EXCEPT CASINGS, AS APPROVED.

7.) IF CONTRACTOR EXCAVATES DEEPER THAN NECESSARY FOR CURB AND GUTTER, CONTRACTOR WILL FURNISH ODOT 304 AGGREGATE AND TAMP BEFORE CURB AND GUTTER IS CONSTRUCTED.

8.) IF SUBGRADE IS UNSUITABLE, CONTRACTOR WILL EXCAVATE AND REPLACE SUCH MATERIAL WITH CRUSHER RUN GRAVEL, AT THE DISCRETION OF THE INSPECTOR OR CITY ENGINEER. THIS FILL TO BE PLACED IN 6" LAYERS OR LESS. SAID FILL TO BE COMPACTED TO 95% LABORATORY DRY WEIGHT BEFORE ADDITIONAL LAYERS ARE ADDED. CONTRACTOR WILL BE PAID FOR EXTRA GRAVEL AND EXCAVATION. THIS COMPACTION TO BE DONE BEFORE FORMS ARE PLACED.

9.) CONTRACTOR TO BACKFILL CURB IMMEDIATELY AFTER CURB HAS BEEN IN PLACE FOR FOR 48 HOURS.

10.) ALL STORM SEWER PIPES WITHIN PAVEMENT LIMITS SHALL BE REINFORCED CONCRETE PIPE (ODOT 706.02) AND SHALL BE TYPE "B" CONDUIT IN ACCORDANCE WITH ODOT 603 CLASS "B" BEDDING AND GRANULAR BACKFILL. ALL STORM SEWER OUTSIDE PAVEMENT LIMITS SHALL BE SMOOTH LINED CORRUGATED POLYETHYLENE (ODOT 944) OR REINFORCED CONTRETE PIPE (ODOT 706.02) AND SHALL BE TYPE "C" CONDUIT IN ACCORDANCE WITH ODOT 603 WITH CLASS "C" BEDDING AND SUITABLE SOIL BACKFILL.

11.) DOWNSPOUT HEADERS SHALL BE 6" PVC (SDR 21) PIPE (UNLESS OTHERWISE NOTED ON THE PLANS) AND SHALL BE DIRECTLY CONNECTED TO THE STORM SEWER WITH APPROVED TEE OR SADDLE CONNECTIONS. HEADERS SHALL EXTEND 12' INTO THE LOTS OR BEYOND FURTHEST UTILITY, WHICHEVER IS GREATER.

12.) MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH MASSILLON CITY STANDARDS.

13.) CONTRACTOR SHALL CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT (GREG McCUE) AT (330/830-1722) AT LEAST 2 DAYS PRIOR TO THE INITIATION OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING.

14.) STREET LIGHTING IS REQUIRED. DEVELOPER SHALL COORDINATE WITH ELECTRIC UTILITY COMPANY FOR POLE LOCATION AND TYPE. THE DEVELOPER SHALL INSTALL, AT HIS COST, STREET SIGNS REPRESENTING THE NAMES OF ALL STREETS AT ALL INTERSECTIONS. DEVELOPER ALSO RESPONSIBLE FOR STOP SIGNS AND DIRECTIONAL SIGNS AS NECESSARY. ALL SIGNS SHALL CONFORM WITH CITY OF MASSILLON REGULATIONS.

15.) WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY ITEMS ARE TO BE PERFORMED ONLY UNDER THE DIRECTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE CONTRACTOR AND THE ENGINEER. THE DEVELOPER IS RESPONSIBLE FOR THE COST OF SUCH ITEMS AND SHALL NOT BE PART OF THE BID DOCUMENT.

16.)
16a.) BEFORE ACCEPTANCE OF THE ROAD PAVEMENT SUBGRADES BY THE CITY OF MASSILLON ENGINEER, SUBGRADES SHALL BE TESTED IN ACCORDANCE WITH ODOT ITEM 203.13. IN LIEU OF SUBGRADE TESTING PER ITEM 203.13, PROOF ROLLING IN ACCORDANCE WITH ODOT ITEM 203.14 MAY BE SUBSTITUTED.

16b.) WHEREVER UNSTABLE SOIL SUBGRADE CONDITIONS ARE ENCOUNTERED THAT ARE UNSUITABLE PER ODOT 203 SPECIFICATIONS AND/OR DETERMINED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT, ADDITIONAL EXCAVATION AND SUBSEQUENT BACKFILLING SHALL BE DONE BY THE DEVELOPER'S CONTRACTOR AND PAID FOR BY THE DEVELOPER UNTIL SUCH CONDITIONS ARE CORRECTED AND APPROVED BY THE CITY OF MASSILLON ENGINEER.

16c.) SUBGRADE TESTING OR PROOF ROLLING MUST BE WITNESSED AND APPROVED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT PRIOR TO THE PLACEMENT OF THE PAVEMENT SUBBASE MATERIAL. CONTRACTOR SHALL CONTACT THE CITY ENGINEERING DEPARTMENT AT (330) 830-1722 TO SCHEDULE.

17.) AS-BUILT DRAWINGS ARE REQUIRED AND SHALL BE SUBMITTED TO THE CITY ENGINEER UPON COMPLETION OF THE PROJECT.

GENERAL STORM SEWER NOTES:

1. STORM SEWER LINES SHALL BE CONSTRUCTED OF ADS, N-12 OR EQUAL, AASHTO M-294, TYPE S PE PIPE OR REINFORCED CONCRETE PIPE.

2. ALL STORM SEWER PIPE SHALL BE LAID IN A GRANULAR FOUNDATION OF NO LESS THAN 6 INCHES, AND SHALL EXTEND AT LEAST 6" ABOVE THE TOP OF THE PIPE. THE GRANULAR MATERIAL SHALL BE NO LARGER THAN SIZE #6.

3. SUITABLE GRANULAR BACKFILL MATERIAL SHALL BE USED UNDER PROPOSED AND EXISTING PAVEMENT AND SHALL EXTEND TO THE TOP OF THE TRENCH AND SHALL BE PLACED TO ITEM 603.08 REQUIREMENTS.

GENERAL SANITARY SEWER NOTES:

1. SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF MASSILLON SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF CONSTRUCTION.

2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

3. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO START OF CONSTRUCTION.

4. THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

5. APPROVAL BY THE CITY OF MASSILLON CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY MAINTAINING EXISTING SANITARY FLOW DURING THE CONSTRUCTION AND TESTING OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR'S METHODS FOR MAINTAINING FLOW MUST BE APPROVED BY THE CITY OF MASSILLON AT THE PRE-CONSTRUCTION MEETING.

7. ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISHED GRADE SHALL BE COMPLETED WITHIN THE RIGHTS-OF-WAY AND EASEMENTS PRIOR TO SANITARY SEWER CONSTRUCTION.

8. BULKHEADS SHALL BE ERECTED IN EXISTING MANHOLES WHERE TAPS FOR NEW MAINLINE SEWERS ARE MADE AND SHALL REMAIN IN PLACE UNTIL THE NEW SEWERS ARE COMPLETE, TESTED AND APPROVED. IN CASES WHERE A BULKHEAD WOULD INTERRUPT THE FLOW FROM EXISTING SERVICE CONNECTIONS, THE BULKHEAD SHALL BE PLACED IN THE FIRST NEW MANHOLE UPSTREAM OF THE EXISTING MANHOLE.

9. MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FEET.

10. SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0% GRADE.

11. NO CHANGES TO SANITARY SEWER SERVICE LATERAL LOCATIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE CITY OF MASSILLON ENGINEER.

12. FOR NEW SUBDIVISION CONSTRUCTION, SEWER SERVICE LATERALS SHALL EXTEND 10 FT. INTO EACH LOT WHEN THE MAIN SEWER IS IN A STREET RIGHT-OF-WAY, AND SHALL TERMINATE AT THE EASEMENT LINE WHEN THE MAIN SEWER IS IN AN EASEMENT. FOR OTHER SEWER EXTENSIONS, SEWER SERVICE LATERALS SHALL TERMINATE AT THE RIGHT-OF-WAY LINE OR THE EASEMENT LINE, WHICHEVER IS APPLICABLE.

13. SERVICE STACKS SHALL BE DUCTILE IRON PIPE REGARDLESS OF MAIN SEWER MATERIAL. A CAST IRON TEE SHALL BE INSTALLED IN THE MAIN SEWER. CONCRETE ENCASEMENT WILL NOT BE REQUIRED.

14. MINIMUM COVER OVER SANITARY SEWER SHALL BE 4 FEET.

15. ACCEPTABLE SANITARY SEWER PIPE MATERIALS ARE AS FOLLOWS:

PIPE		JOINTS	INSTALLATION
PVC SMOOTH EXTERIOR:	ASTM D-3034	ASTM D-3212	ASTM D-2321
PVC:	ASTM F-794	ASTM D-3212	ASTM D-2321
CLOSED PROFILE (DUAL WALL)			
CORRUGATED (DUAL WALL)			
RIBBED (OPEN PROFILE)			
PVC CORRUGATED EXTERIOR:	ASTM F-949	ASTM D-3212	ASTM D-2321
VCP EXTRA STRENGTH:	ASTM C-700	ASTM C-425	ASTM C-12
ABS COMPOSITE:	ASTM D-2680	ASTM D-2235	ASTM D-2680
PVC COMPOSITE:	ASTM D-2680	ASTM D-2564	ASTM D-2680

16. ALL SANITARY SEWERS, 8-INCHES DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEOTAPE TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT. THE VIDEOTAPING PROCEDURE SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON SPECIFICATIONS.

17. A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE PIPE OF 8-INCH DIAMETER AND LARGER. THE TEST SHALL BE CONDUCTED AT LEAST 30 DAYS AFTER COMPLETION OF BACKFILL AND SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON SPECIFICATIONS. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE PERCENT (5 %). TESTING SHALL BE IN ACCORDANCE WITH ASTM D-3034.

18. ALL SANITARY SEWERS MUST PASS A LOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH CITY OF MASSILLON SPECIFICATIONS. THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL/INCH OF DIAMETER/MILE/DAY.

19. MANHOLE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ASTM C-478 AND C-443. ALL MANHOLES SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF ASTM C-1244.

20. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.

21. ANY MANHOLE DROP ATTACHMENTS SHALL BE "OUTSIDE" TYPE.

22. MANHOLE TOP OF CASTING ELEVATIONS MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION. MANHOLE COVERS MAY NOT BE BURIED. UPON COMPLETION OF CONSTRUCTION AND RESTORATION, ALL MANHOLES, PROPOSED AND EXISTING, SHALL BE IN CONFORMANCE IN ALL RESPECTS WITH CITY OF MASSILLON SPECIFICATIONS AND DETAILS.

23. ALL SANITARY SEWER TRENCHES BENEATH PROPOSED OR EXISTING PAVEMENT SHALL BE COMPACTED IN LIFTS, IN A MANNER, AND WITH MATERIAL AS SPECIFIED BY THE CITY OF MASSILLON AND ALL APPLICABLE O.D.O.T. SPECIFICATIONS.

24. CONTRACTOR IS TO NOTIFY CITY OF MASSILLON ENGINEER (330-830-1722) FOR A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY CONSTRUCTION.

25. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE CITY OF MASSILLON.

GENERAL WATERLINE NOTES:

1.) WATERLINE SHALL BE CONSTRUCTED OF PRESSURE CLASS 350, AWWA C150 AND C151 DUCTILE IRON PIPE WITH POLYETHYLENE ENCASEMENT.

2.) THE WATER LINE SHALL BE INSTALLED SO THAT 4' - 0' OF COVER, FROM GRADE TO THE TOP OF THE WATER LINE, IS MAINTAINED AS A MINIMUM.

3.) WATER LINE MATERIALS AND INSTALLATION PROCEDURES SHALL MEET OR EXCEED ALL APPLICABLE A.W.W.A. STANDARDS INCLUDING, BUT NOT LIMITED TO, C600 AND C651.

4.) THE CONTRACTOR SHALL CAREFULLY LAY OUT THE WATER LINE AND ALL RELATED FACILITIES TO ENSURE THAT THEY ARE LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY AND/OR DESIGNATED UTILITY EASEMENTS AS INDICATED ON THE DRAWINGS.

5.) MEGALUG RETAINERS REQUIRED AT ALL FITTINGS.

6.) THE PROPOSED FACILITIES WILL MAINTAIN A MINIMUM PRESSURE OF 35 P.S.I. DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.

7.) BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. AQUA OHIO MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES AND HIGHER.

8.) A TYPE 1 TRENCH SHALL BE USED AND BACKFILLED WITH EXCAVATED MATERIAL PROVIDED THAT SAID MATERIAL CONSISTS OF LOAM, CLAY, SAND, GRAVEL, OR OTHER SUITABLE MATERIAL. BACKFILLING FOR ROAD AND DRIVEWAY CUTS SHALL BE, AS A MINIMUM, ODOT 304 AGGREGATE (PROPERLY COMPACTED), OR AS SPECIFIED BY THE LOCAL JURISDICTION.

9.) WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY SANITARY SEWER OR SEWER MANHOLE, AND AT LEAST 5 FEET HORIZONTALLY FROM ANY STORM SEWERS OR STRUCTURES. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

10.) AN 18 INCH VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND WATER MAINS, MEASURED BETWEEN THE OUTSIDE PIPE WALLS. A 12 INCH VERTICAL CLEARANCE IS REQUIRED BETWEEN WATER MAINS AND STORM SEWERS, MEASURED BETWEEN THE OUTSIDE PIPE WALLS. THE STORM SEWER MAY CROSS EITHER ABOVE OR BELOW THE WATER MAIN.

11.) ALL PIPE JOINTS WITHIN 36 FT. OF ANY DEAD END SHALL BE RESTRAINED BY USING FIELD LOCK GASKETS IN PUSH-ON JOINTS OR RETAINER GLANDS (MEGALUGS) ON MECHANICAL JOINTS. IN ADDITION, POURED-IN-PLACE CONCRETE THRUST BLOCKS SHALL BE PROVIDED PER AQUA OYIO SPECIFICATIONS TO PREVENT MOVEMENT OF THE WATERLINE.

12.) ALL DUCTILE PIPE, FITTINGS AND VALVES SHALL BE ENCASED IN POLYETHYLENE ENCASEMENT (POLYWRAP) IN A WORKMANLIKE MANNER WITH JOINTS TAPED PER AQUA OHIO SPECIFICATIONS.

13.) WATER SERVICES SHALL EXTEND 10' INTO THE LOTS OR BEYOND FURTHEST UTILITY, WHICHEVER IS GREATER, WITH THE CURB BOX INSTALLED 4' BEHIND BACK OF CURB. THE AQUA OHIO POINT OF DELIVERY IS THE OUTLET SIDE OF THE CURB STOP.

14.) IN THE LOCATIONS WHERE A TYPE 3 HYDRANT ASSEMBLY IS CALLED OUT AND THE WATERLINE IS PLACED AT 3' BEHIND BACK OF CURB, THE CONTRACTOR SHALL DEFLECT THE WATERLINE TO BE 1.50' BEHIND BACK OF CURB TO ALLOW THE HYDRANT TO BE INSTALLED AT 3.50' BEHIND BACK OF CURB.

15. DUE TO HIGH WATER PRESSURE A PRESSURE REDUCING VALVE IS NECESSARY IN EACH HOUSE AFTER THE METER, TO BE INCLUDED IN PLUMBING COST FOR EACH HOUSE.

UTILITY CONTACTS

WATER:
AQUA OHIO
P.O. BOX 584
MASSILLON OHIO 44647
CONTACT PERSON; DON SNYDER
(330) 832-7600 EXT. 205

ELECTRIC:
OHIO EDISON
1910 W MARKET BLDG #1
AKRON OHIO 44313
CONTACT PERSON: KEN DOWNS
(330) 384-4839

CABLE TELEVISION:
MASSILLON CABLE TV
814 CABLE CT NW
MASSILLON OHIO 44648
(330) 833-4134

TELEPHONE:
SBC
50 W. BOWERY ST. 6TH FLOOR
AKRON OHIO 44308
CONTACT PERSON: DOUG CULP
(330) 384-2237

TELEPHONE:
AT & T COMMUNICATIONS
229 WEST 7TH STREET 10TH FLOOR
CINCINNATI OHIO 44202
CONTACT PERSON: JEFF BALLENGER
(513) 784-3232

GAS
DOMINION EAST OHIO
320 SPRINGSIDE DR, SUITE 320
AKRON, OHIO 44333
ATTN: MARY J. LONG
EMAIL: relocation@dom.com
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GREAT LAKES ENERGY PARTNER
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HARTVILLE OHIO 44632
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GENERAL NOTES
COUNTRY VIEW MEADOWS
ALLOTMENT
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: AQUA OHIO COMMENTS	9/12/13	RDA	HDM

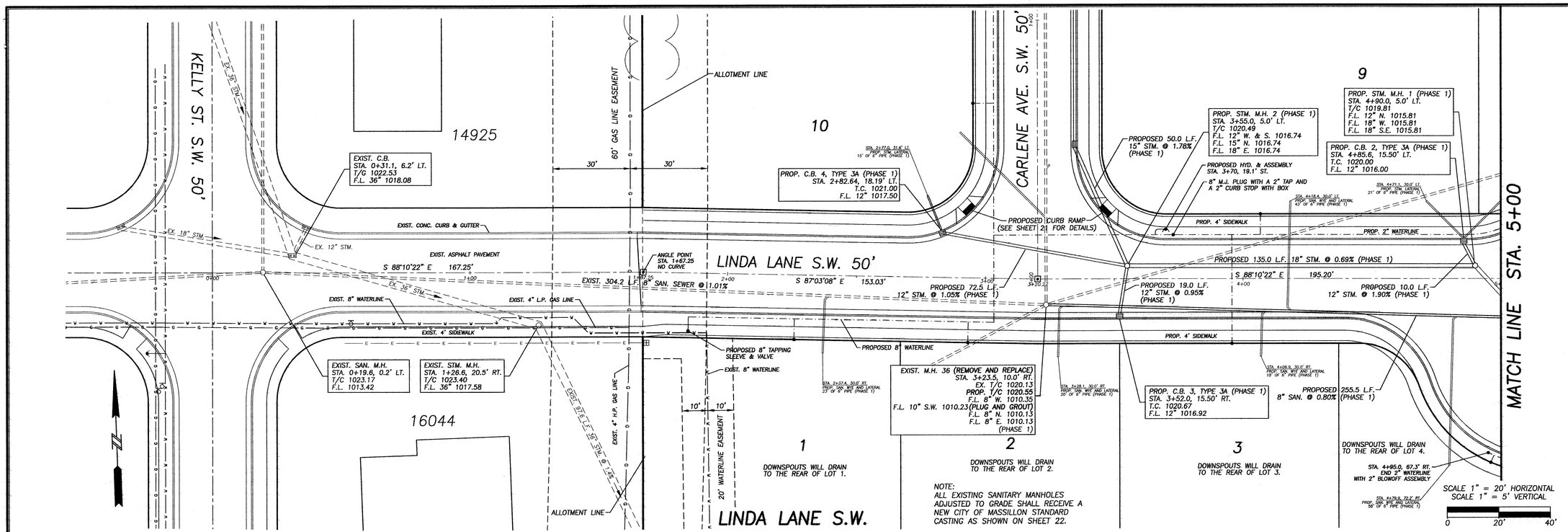
PROJECT No. 1319

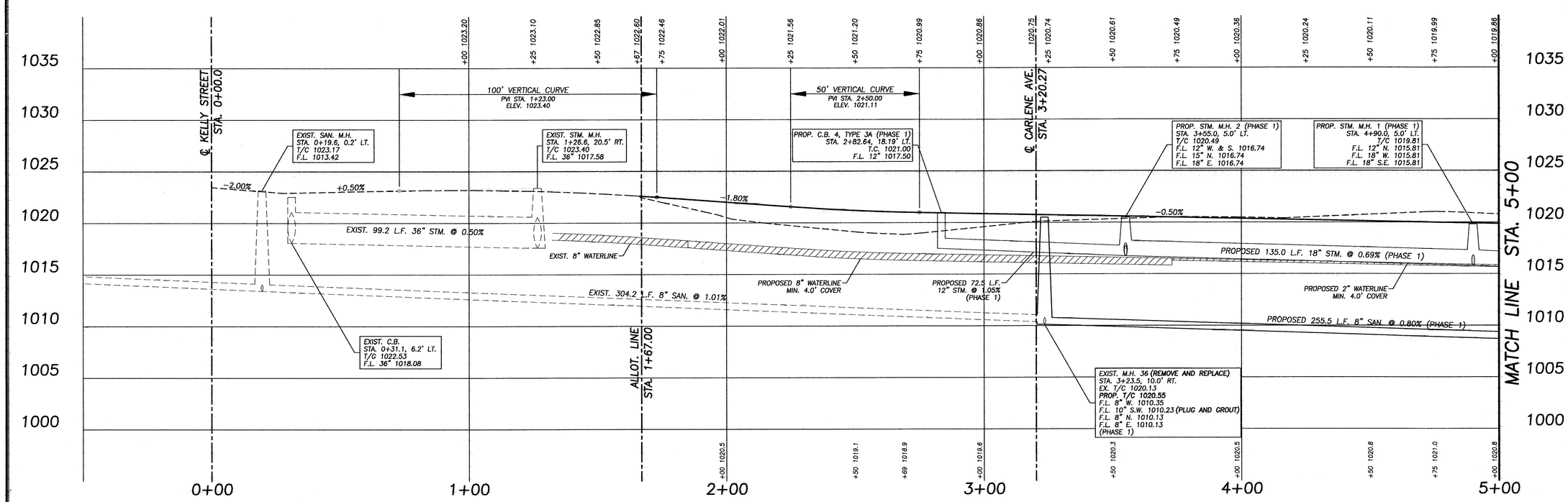
SHEET No. 3

DATE: JULY, 2013

DRAWN BY: RDA

1319_TITLE





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PLAN & PROFILE
LINDA LANE S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/24/14	DNB	HDM

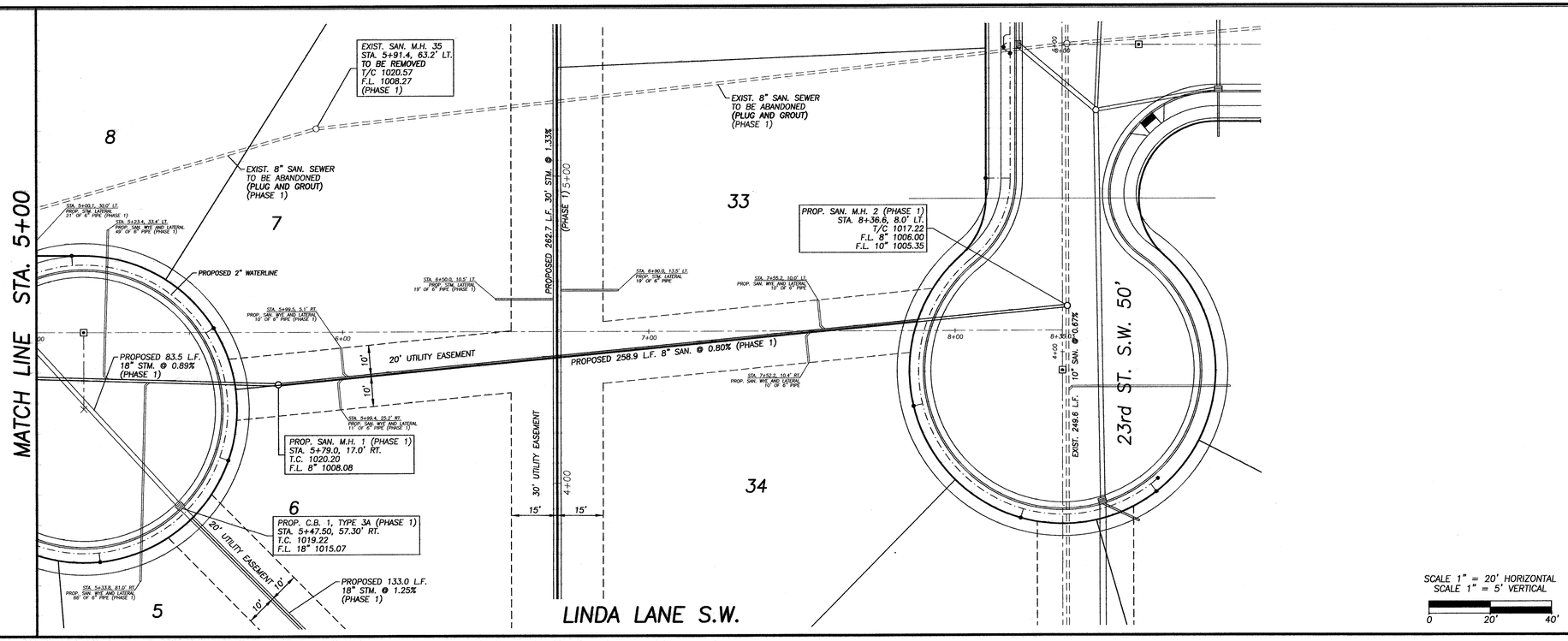
PROJECT No. 1319

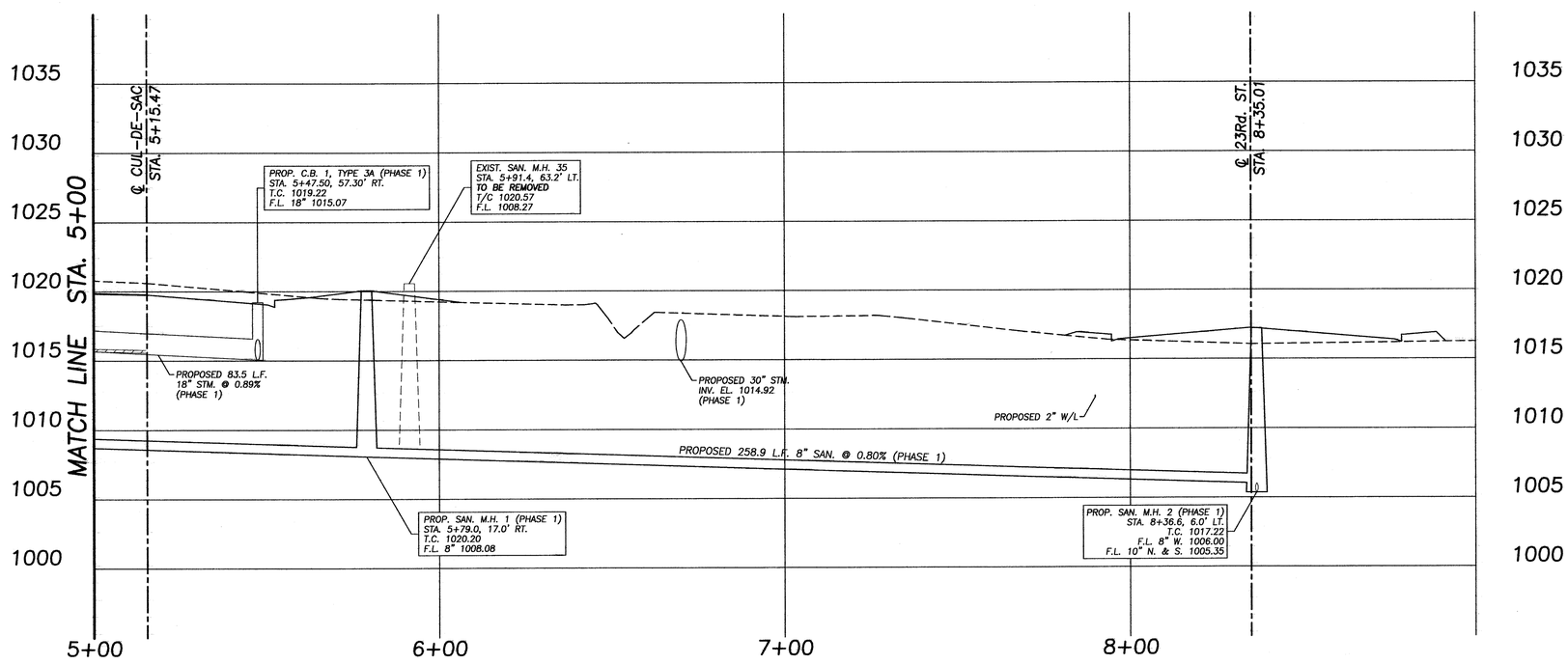
SHEET No. 4

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_PP1





Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1790 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

PLAN & PROFILE
LINDA LANE S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/24/14	DNB	HDM

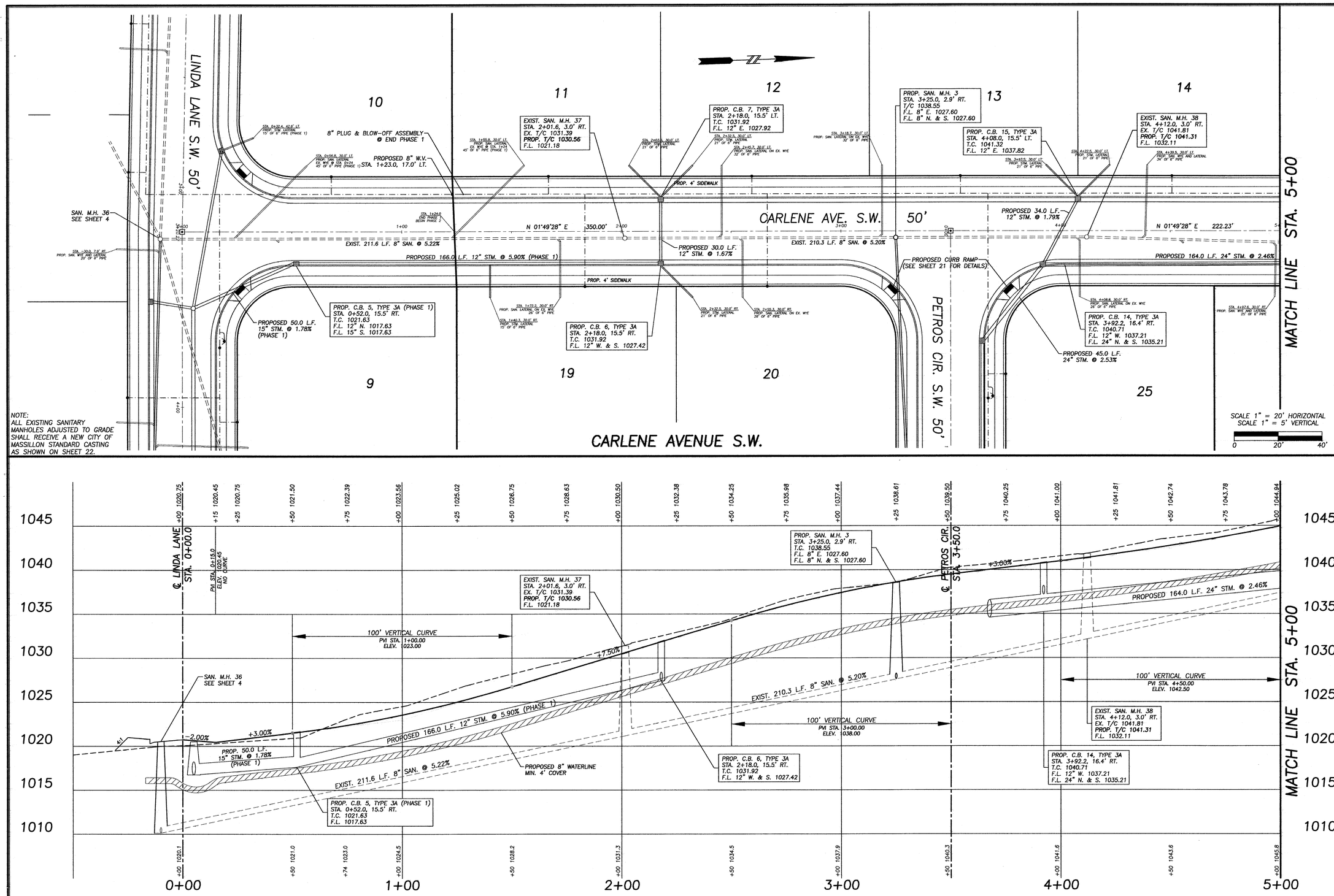
PROJECT No.
1319

SHEET No.
5

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_PP2



NOTE:
ALL EXISTING SANITARY MANHOLES ADJUSTED TO GRADE SHALL RECEIVE A NEW CITY OF MASSILLON STANDARD CASTING AS SHOWN ON SHEET 22.

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PLAN & PROFILE
CARLENE AVENUE S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/24/14	DNB	HDM

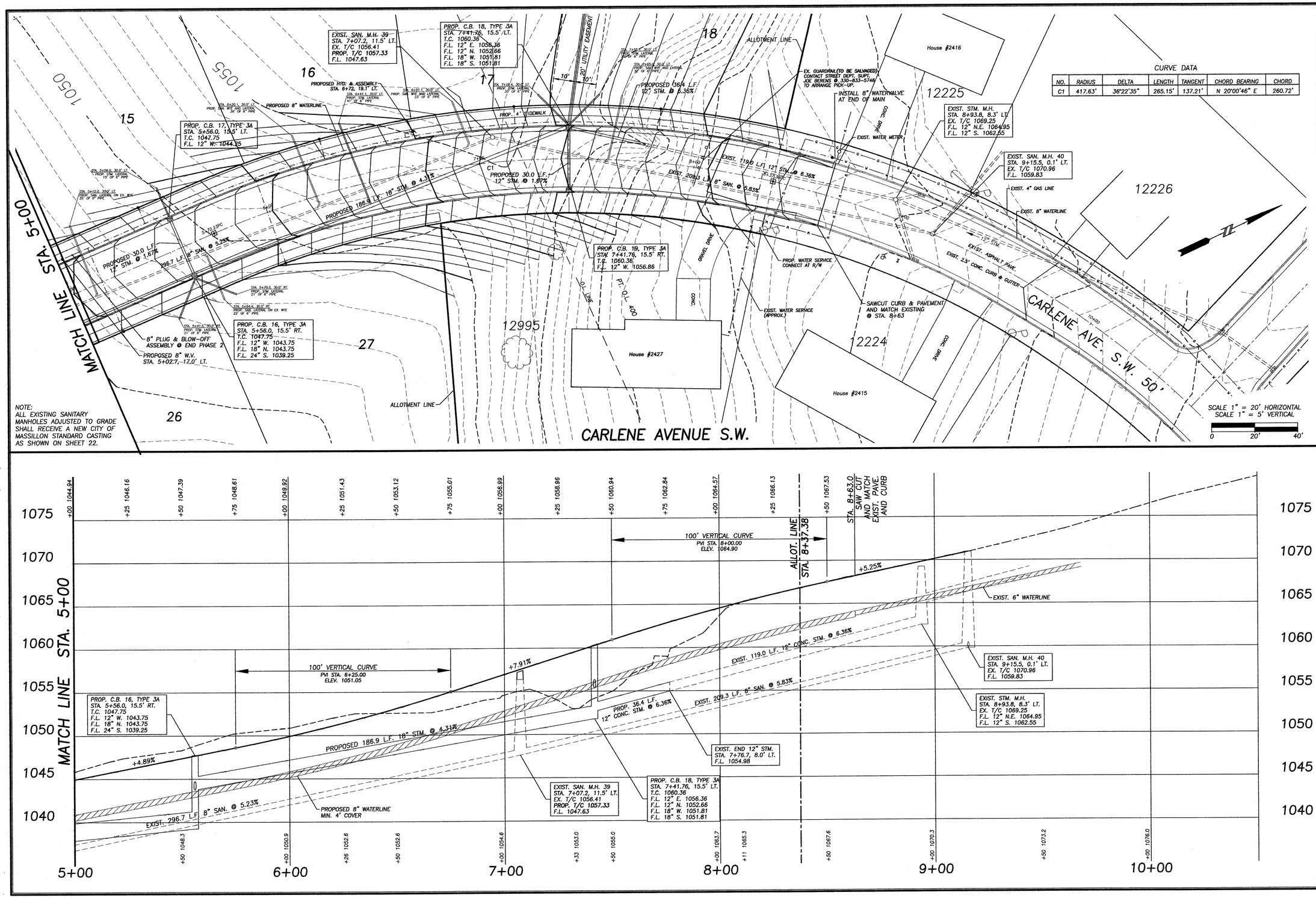
PROJECT No.
1319

SHEET No.
6

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_PP3



NOTE:
ALL EXISTING SANITARY MANHOLES ADJUSTED TO GRADE SHALL RECEIVE A NEW CITY OF MASSILLON STANDARD CASTING AS SHOWN ON SHEET 22.

CURVE DATA

NO.	RADIUS	DELTA	LENGTH	TANGENT	CHORD BEARING	CHORD
C1	417.63'	36°22'35"	265.15'	137.21'	N 20°00'46" E	260.72'

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PLAN & PROFILE
CARLENE AVENUE S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: AQUA OHIO COMMENTS	9/12/13	RDA	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/13/14	DNB	HDM

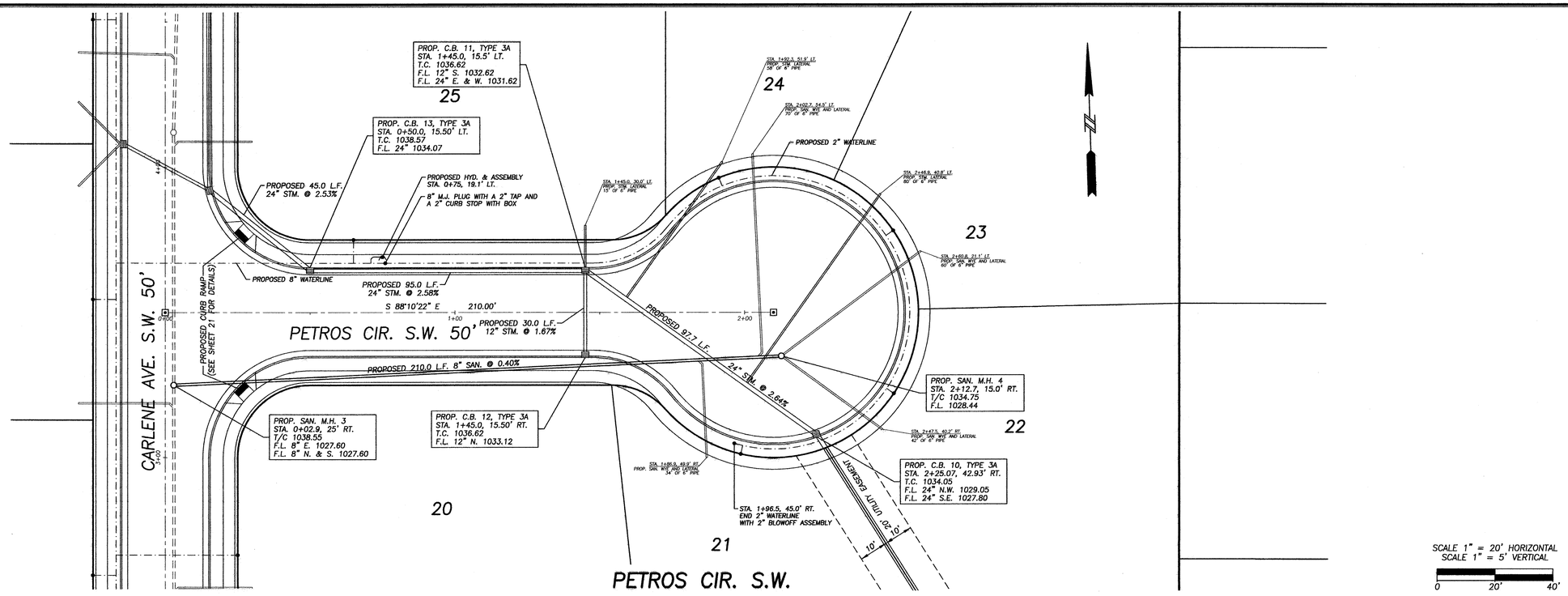
PROJECT No.
1319

SHEET No.
7

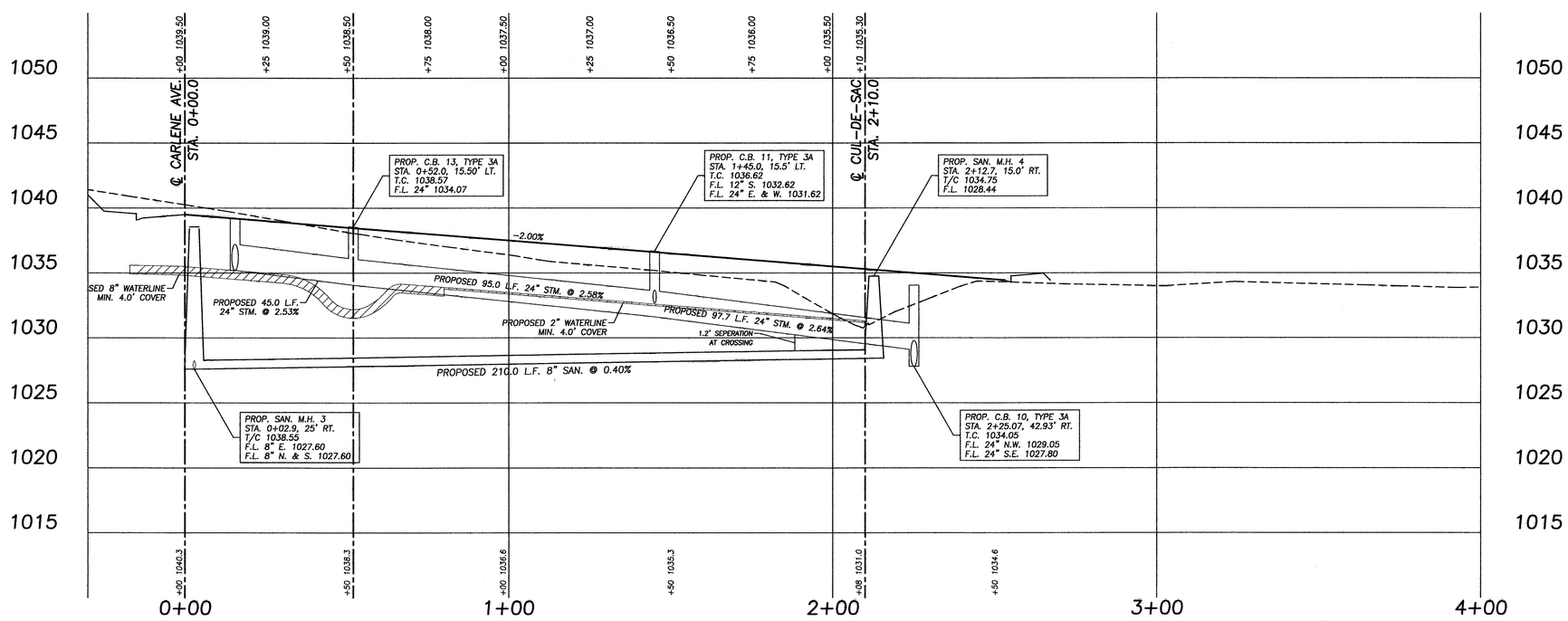
DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_PP4



SCALE 1" = 20' HORIZONTAL
SCALE 1" = 5' VERTICAL
0 20' 40'



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PLAN & PROFILE
PETROS CIRCLE S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: AQUA OHIO COMMENTS	9/12/13	RDA	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	10/28/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM

PROJECT No.
1319

SHEET No.
8

DATE:
AUGUST, 2013

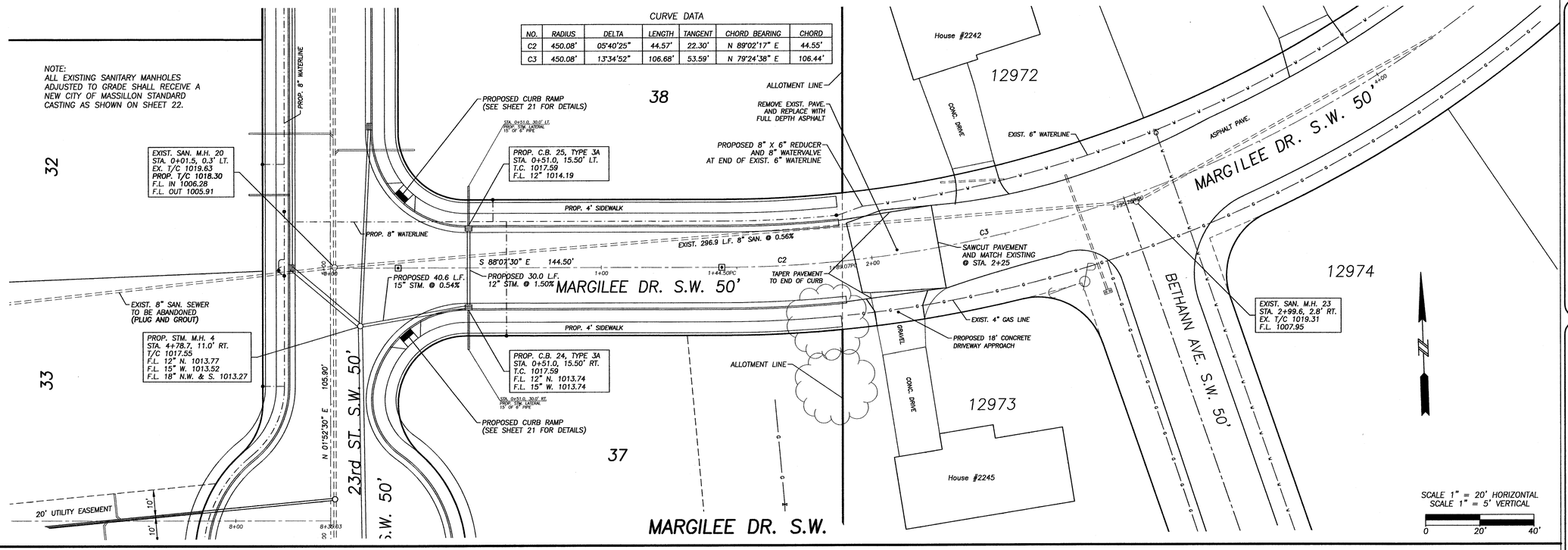
DRAWN BY:
RDA

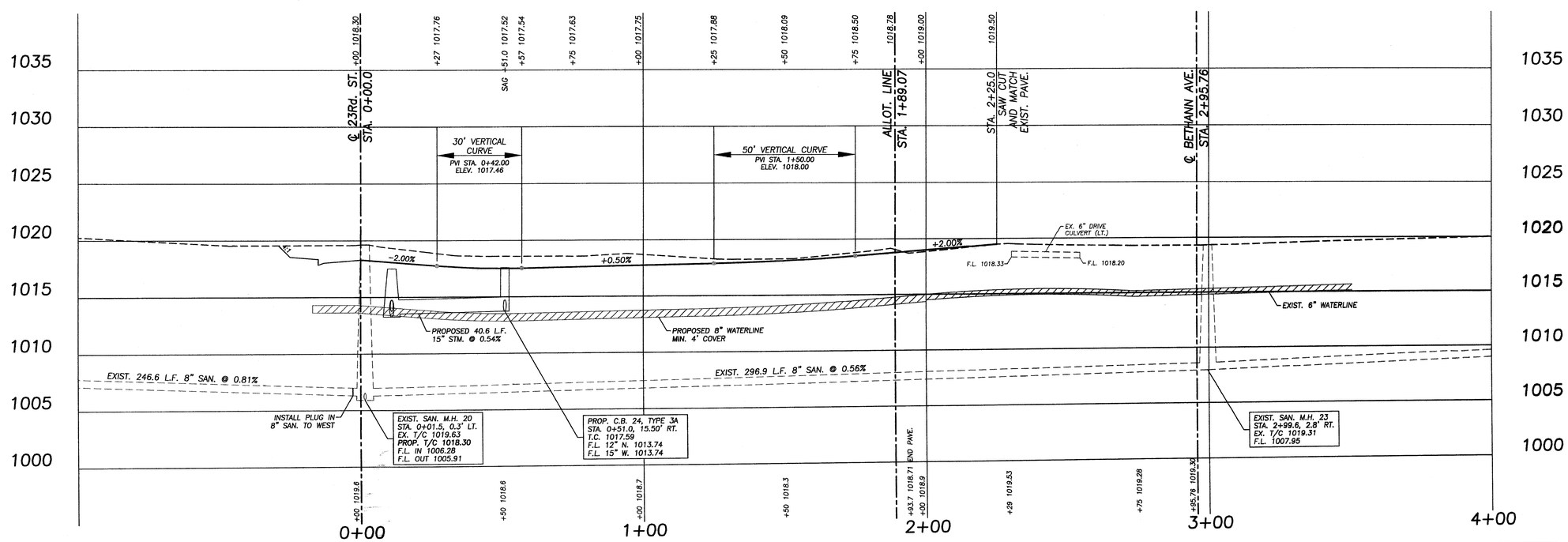
1319_PP5

NOTE:
ALL EXISTING SANITARY MANHOLES ADJUSTED TO GRADE SHALL RECEIVE A NEW CITY OF MASSILLON STANDARD CASTING AS SHOWN ON SHEET 22.

CURVE DATA

NO.	RADIUS	DELTA	LENGTH	TANGENT	CHORD BEARING	CHORD
C2	450.08'	05°40'25"	44.57'	22.30'	N 89°02'17" E	44.55'
C3	450.08'	13°34'52"	106.68'	53.59'	N 79°24'38" E	106.44'





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Consulting Engineers * Surveyors
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PLAN & PROFILE
MARGILEE DRIVE S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/13/14	DNB	HDM

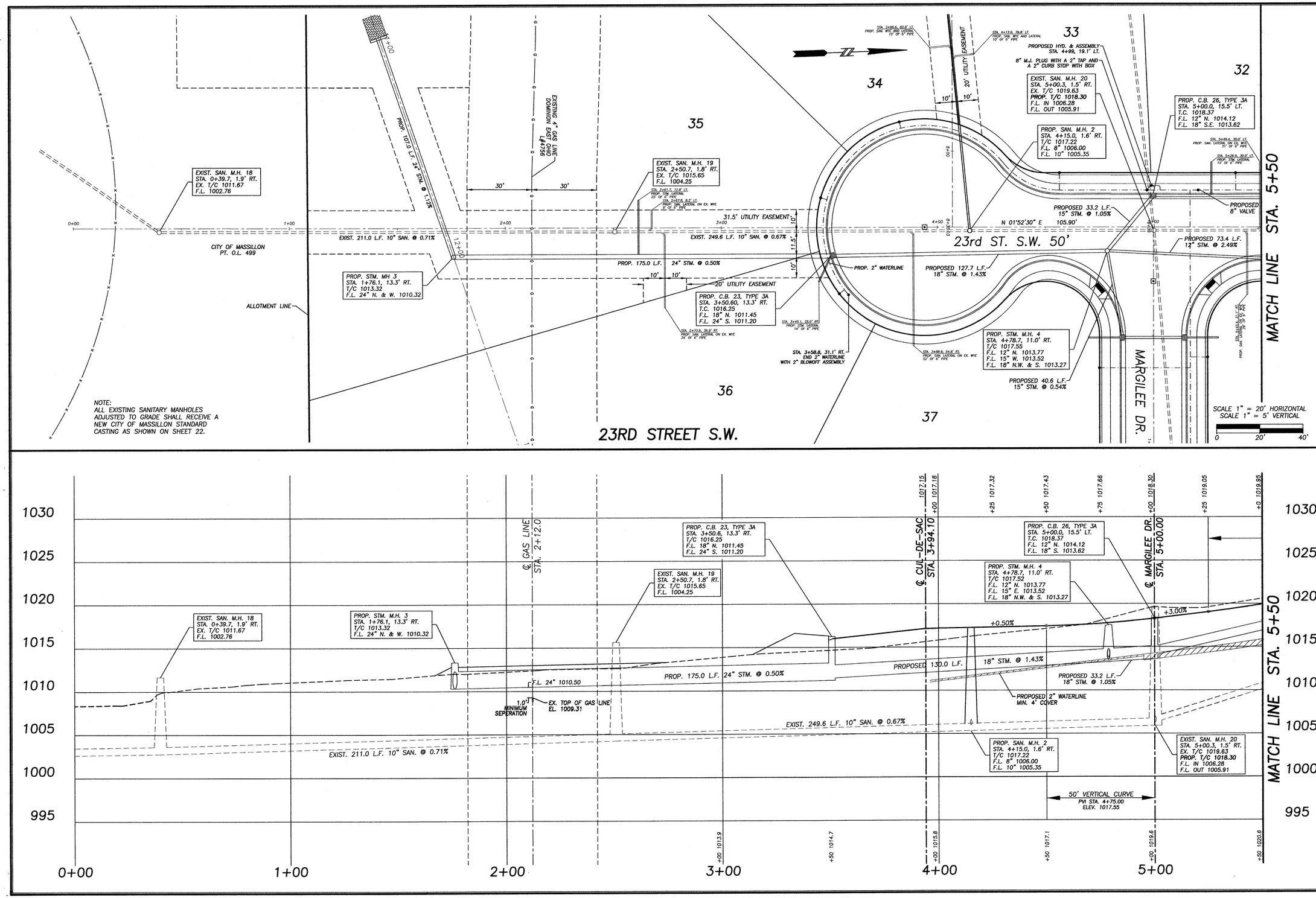
PROJECT No. 1319

SHEET No. 9

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_PP6



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PLAN & PROFILE
23RD. STREET S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/13/14	DNB	HDM

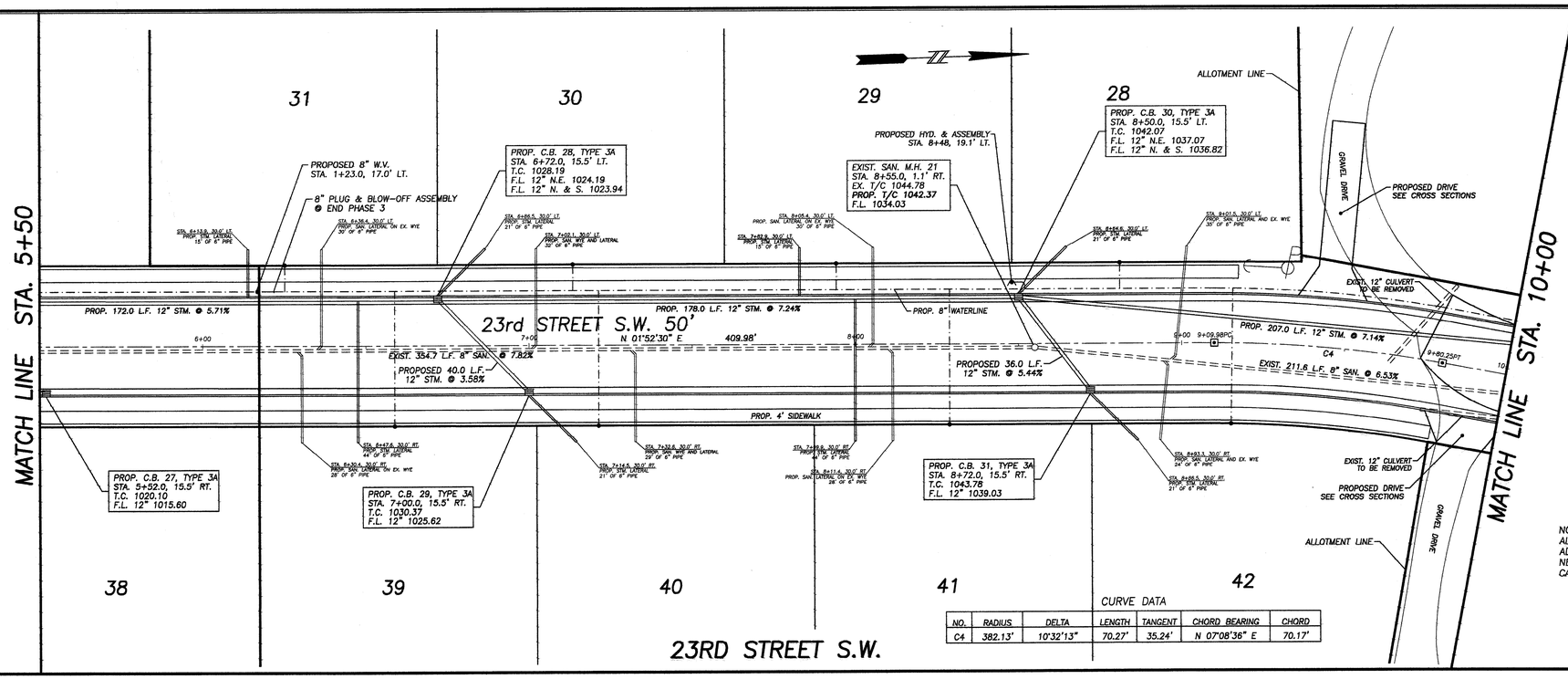
PROJECT No.
1319

SHEET No.
10

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_PP7

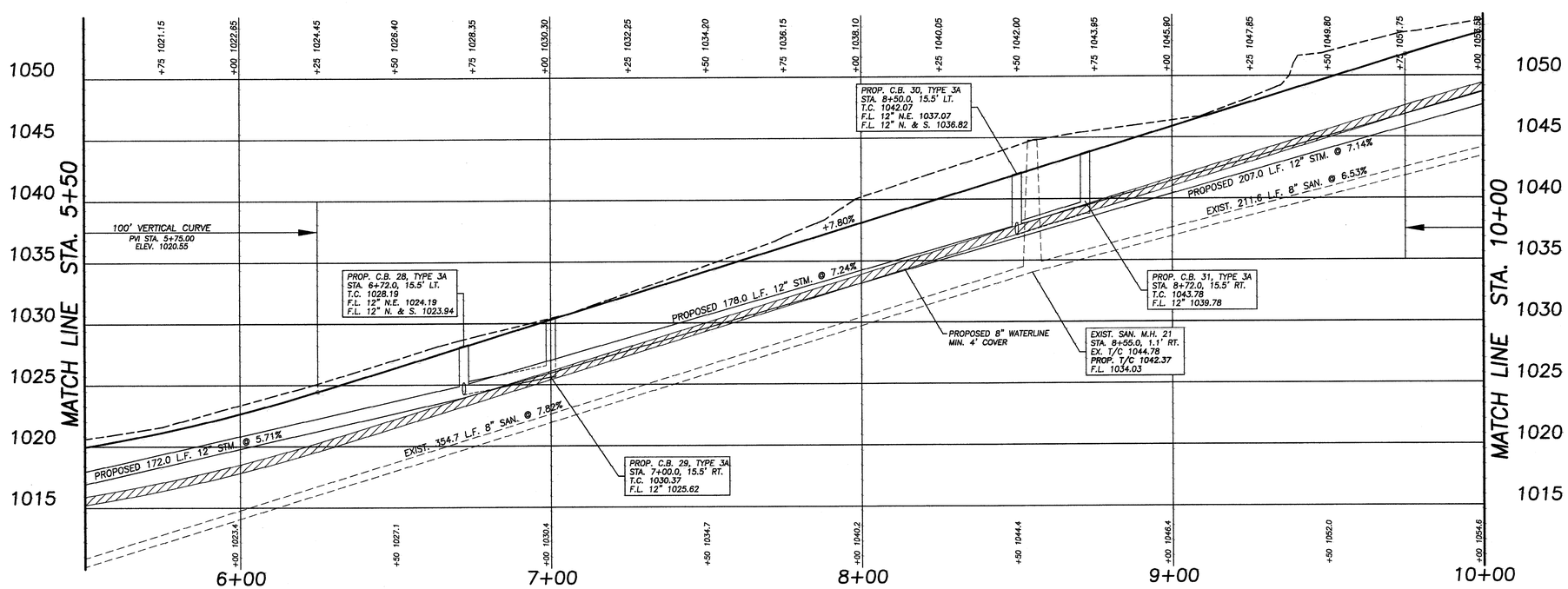


CURVE DATA

NO.	RADIUS	DELTA	LENGTH	TANGENT	CHORD BEARING	CHORD
C4	382.13'	10°32'13"	70.27'	35.24'	N 07°08'36" E	70.17'

NOTE:
ALL EXISTING SANITARY MANHOLES ADJUSTED TO GRADE SHALL RECEIVE A NEW CITY OF MASSILLON STANDARD CASTING AS SHOWN ON SHEET 22.

SCALE 1" = 20' HORIZONTAL
SCALE 1" = 5' VERTICAL
0 20' 40'



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PLAN & PROFILE
23RD. STREET S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM

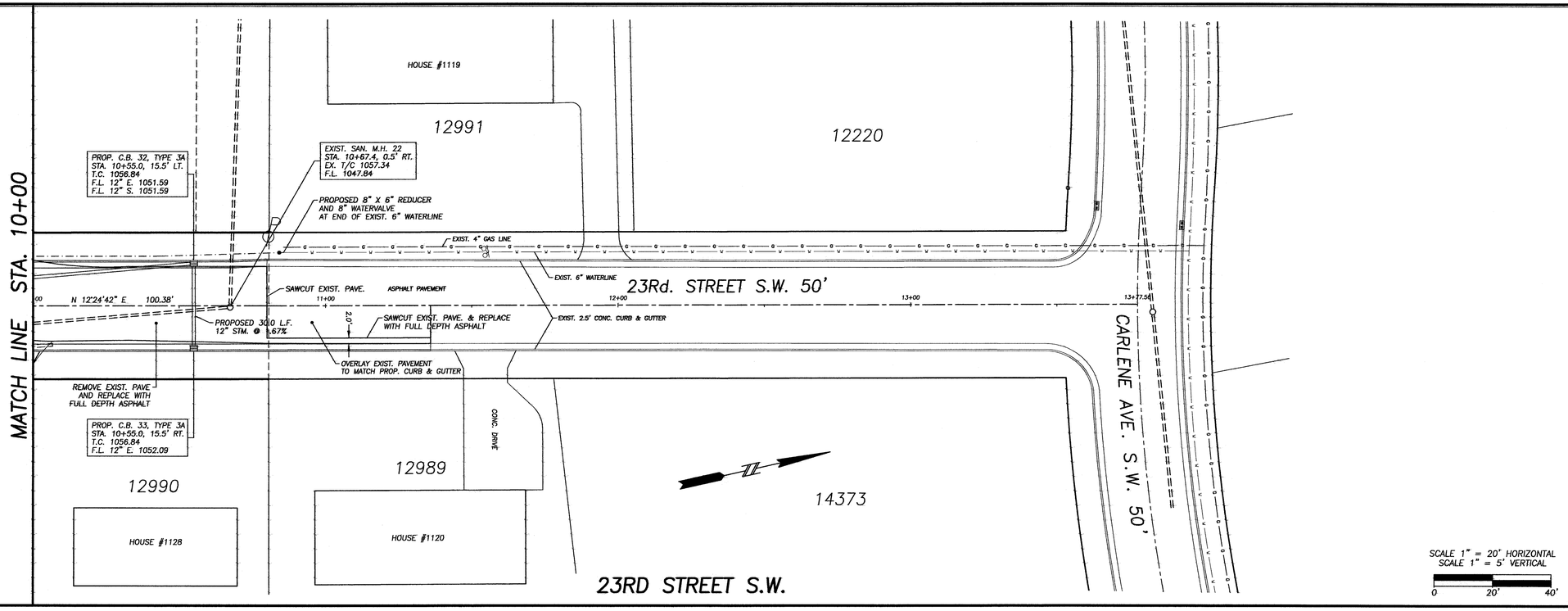
PROJECT No. 1319

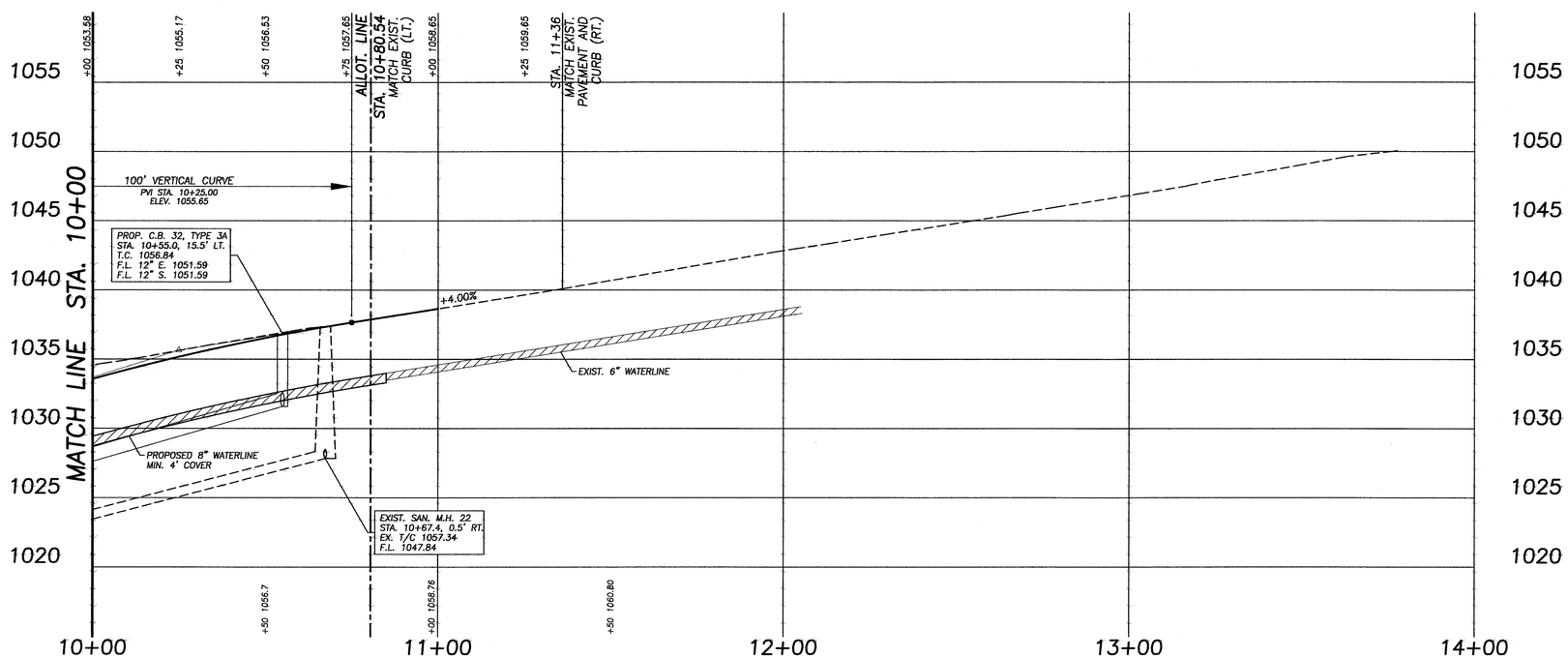
SHEET No. 11

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_PP8





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PLAN & PROFILE
23RD. STREET S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM

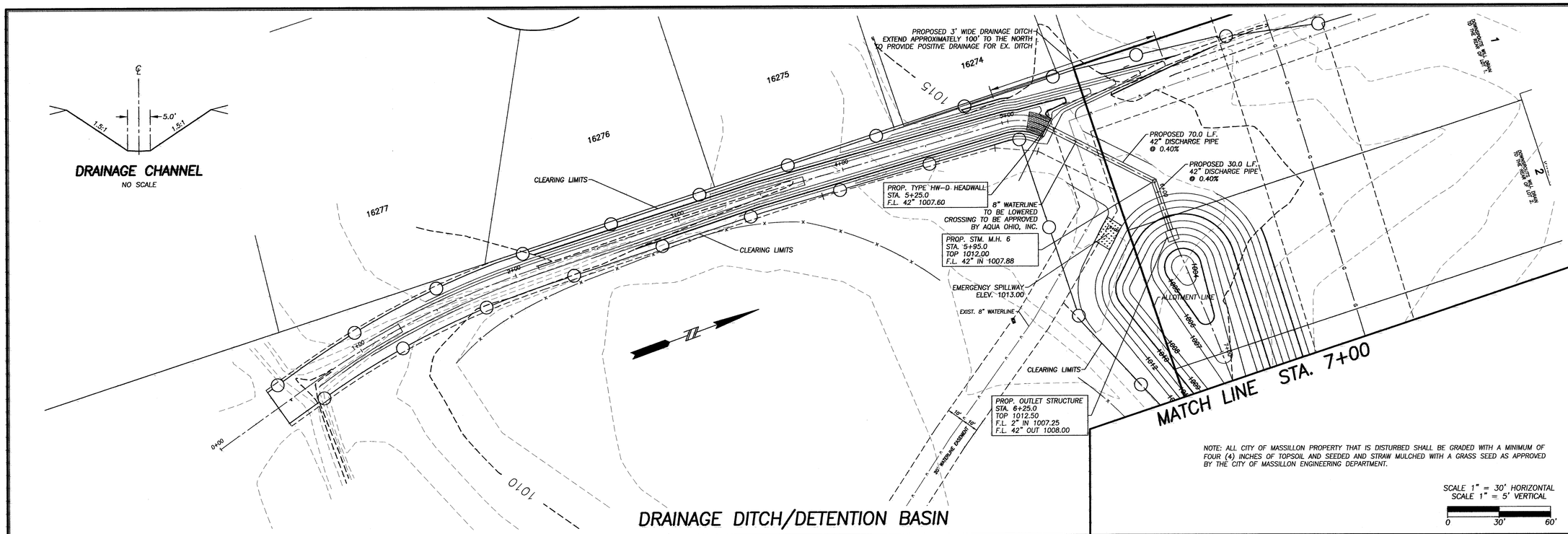
PROJECT No.
1319

SHEET No.
12

DATE:
AUGUST, 2013

DRAWN BY:
RDA

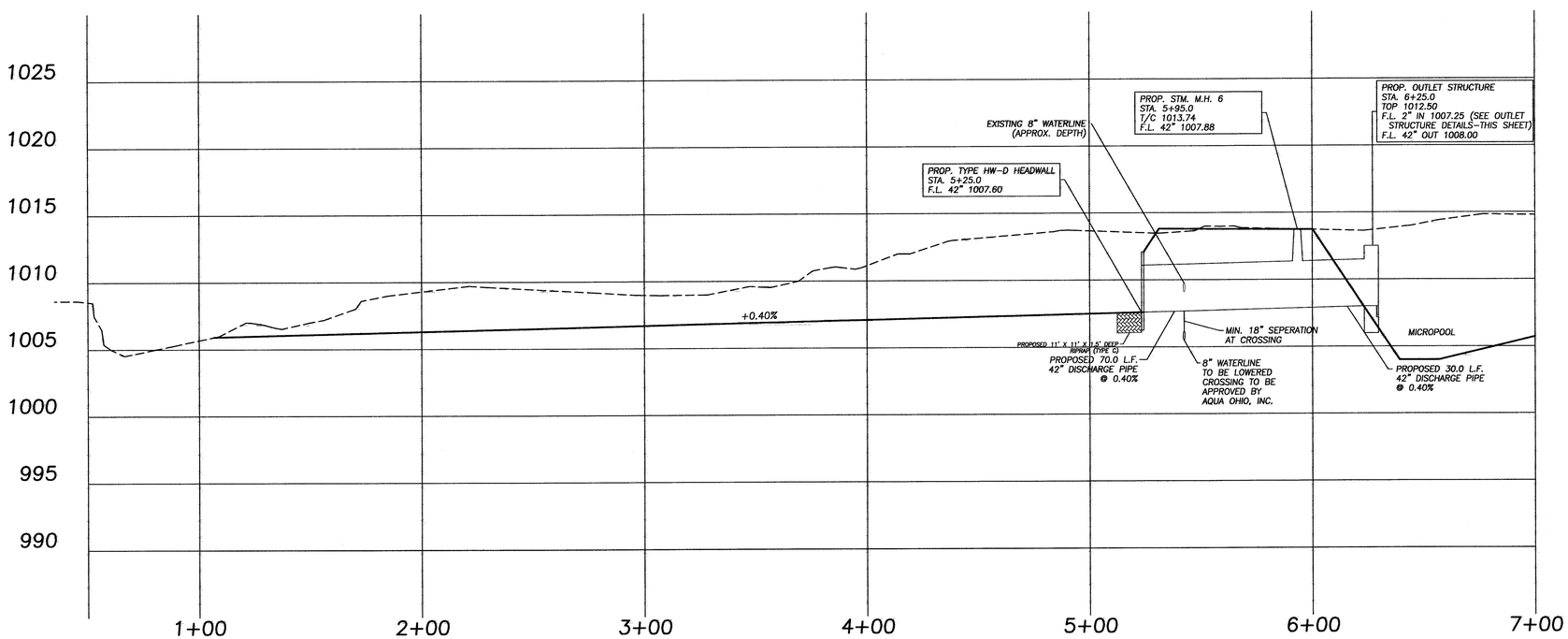
1319_PP9

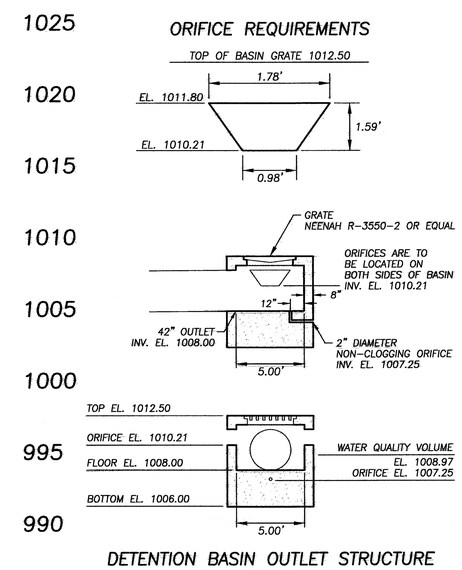


NOTE: ALL CITY OF MASSILLON PROPERTY THAT IS DISTURBED SHALL BE GRADED WITH A MINIMUM OF FOUR (4) INCHES OF TOPSOIL AND SEEDED AND STRAW MULCHED WITH A GRASS SEED AS APPROVED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT.

SCALE 1" = 30' HORIZONTAL
SCALE 1" = 5' VERTICAL

0 30' 60'





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PLAN & PROFILE
DRAINAGE DITCH/DETENTION BASIN
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED OUTLET STRUCTURE	9/16/13	RDA	HDM
REVISED PER: STARK SOIL COMMENTS	11/18/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/13/14	DNB	HDM

PROJECT No.
1319

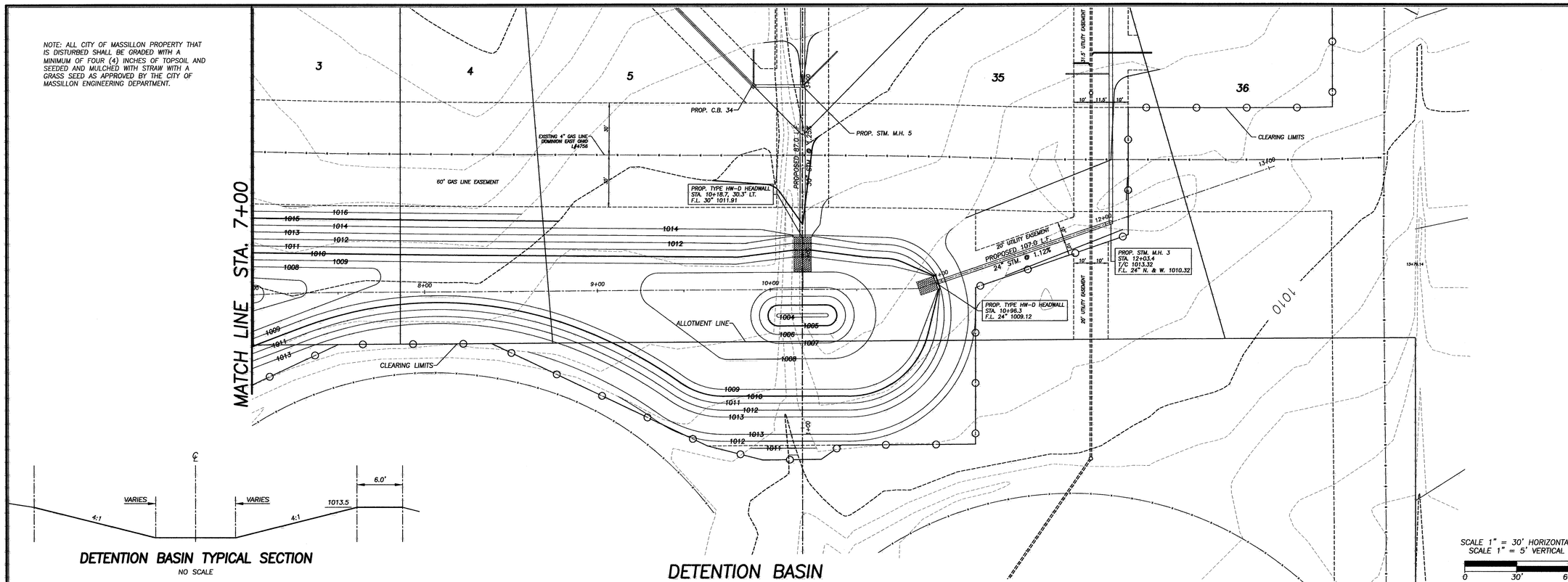
SHEET No.
13

DATE:
AUGUST, 2013

DRAWN BY:
RDA

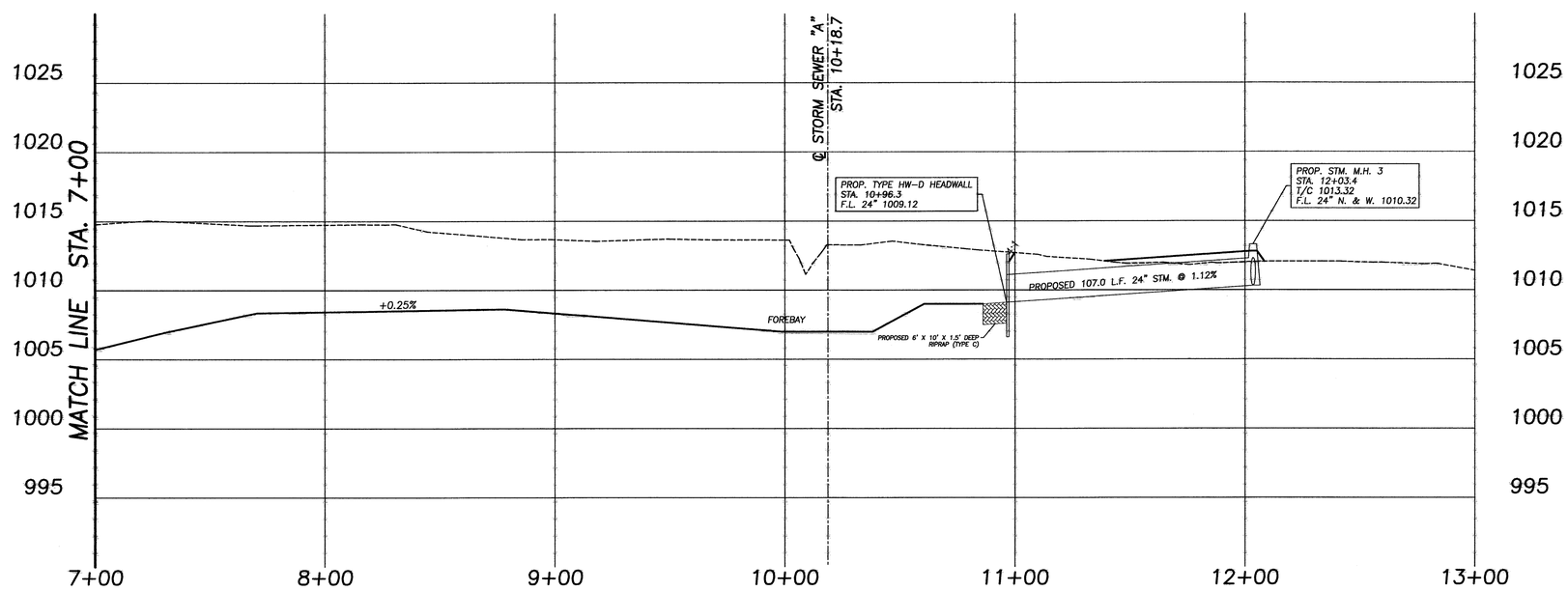
1319_PP10

NOTE: ALL CITY OF MASSILLON PROPERTY THAT IS DISTURBED SHALL BE GRADED WITH A MINIMUM OF FOUR (4) INCHES OF TOPSOIL AND SEEDED AND MULCHED WITH STRAW WITH A GRASS SEED AS APPROVED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT.



DETENTION BASIN TYPICAL SECTION

NO SCALE



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Consulting Engineers * Surveyors
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PLAN & PROFILE
DETENTION BASIN & GAS LINE CROSSING
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: DOMINION EOG COMMENTS	10/30/13	RDA	DNB
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: MASSILLON CITY COMMENTS	1/13/14	DNB	HDM

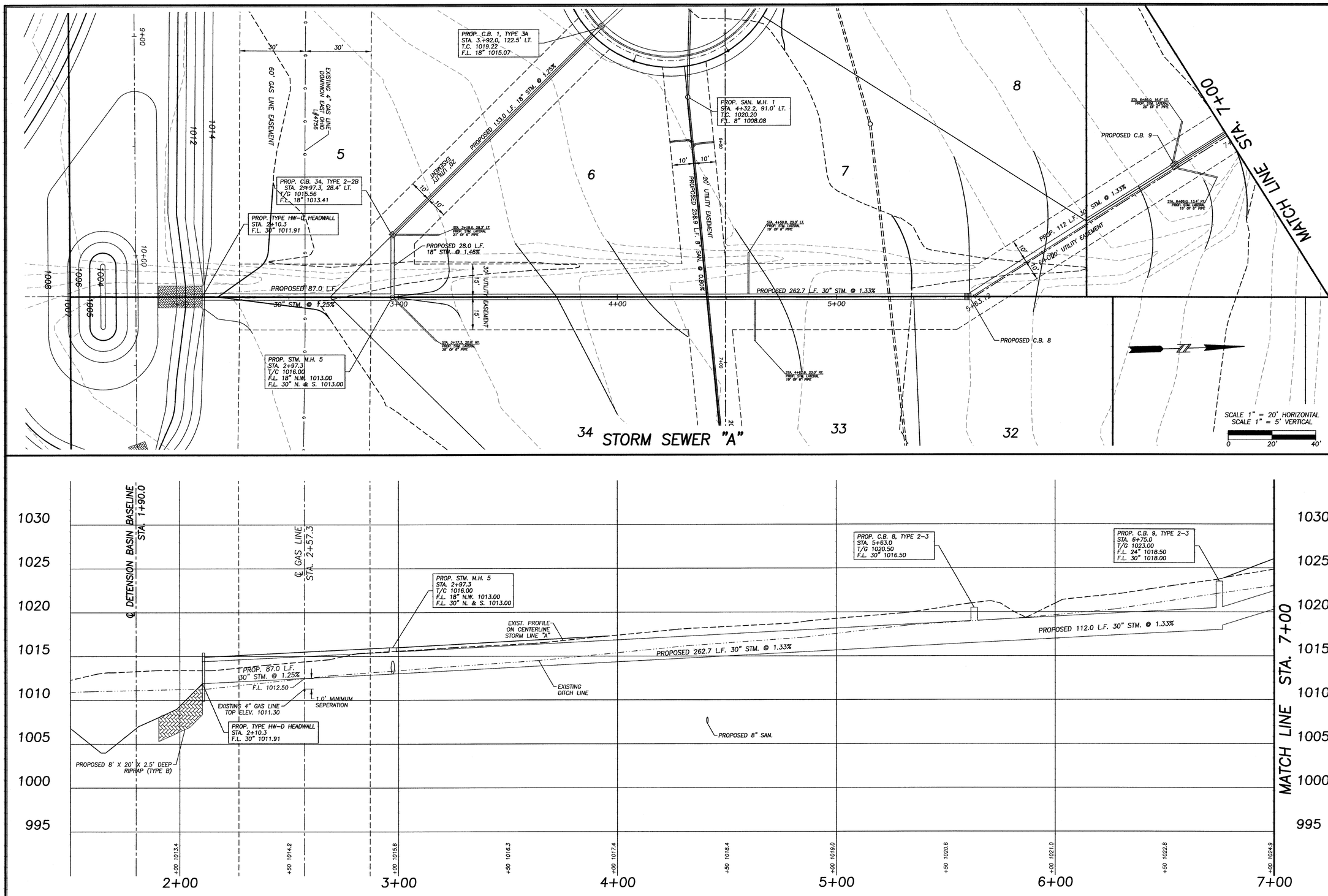
PROJECT No. 1319

SHEET No. 14

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_PP11



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PLAN & PROFILE
STORM SEWER "A"
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: MASSILLON CITY COMMENTS	10/22/13	RDA	DNB
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM

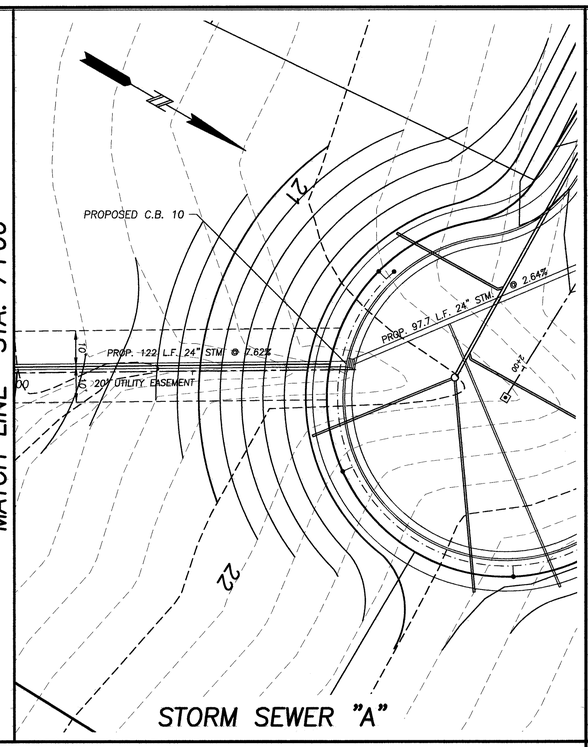
PROJECT No.
1319

SHEET No.
15

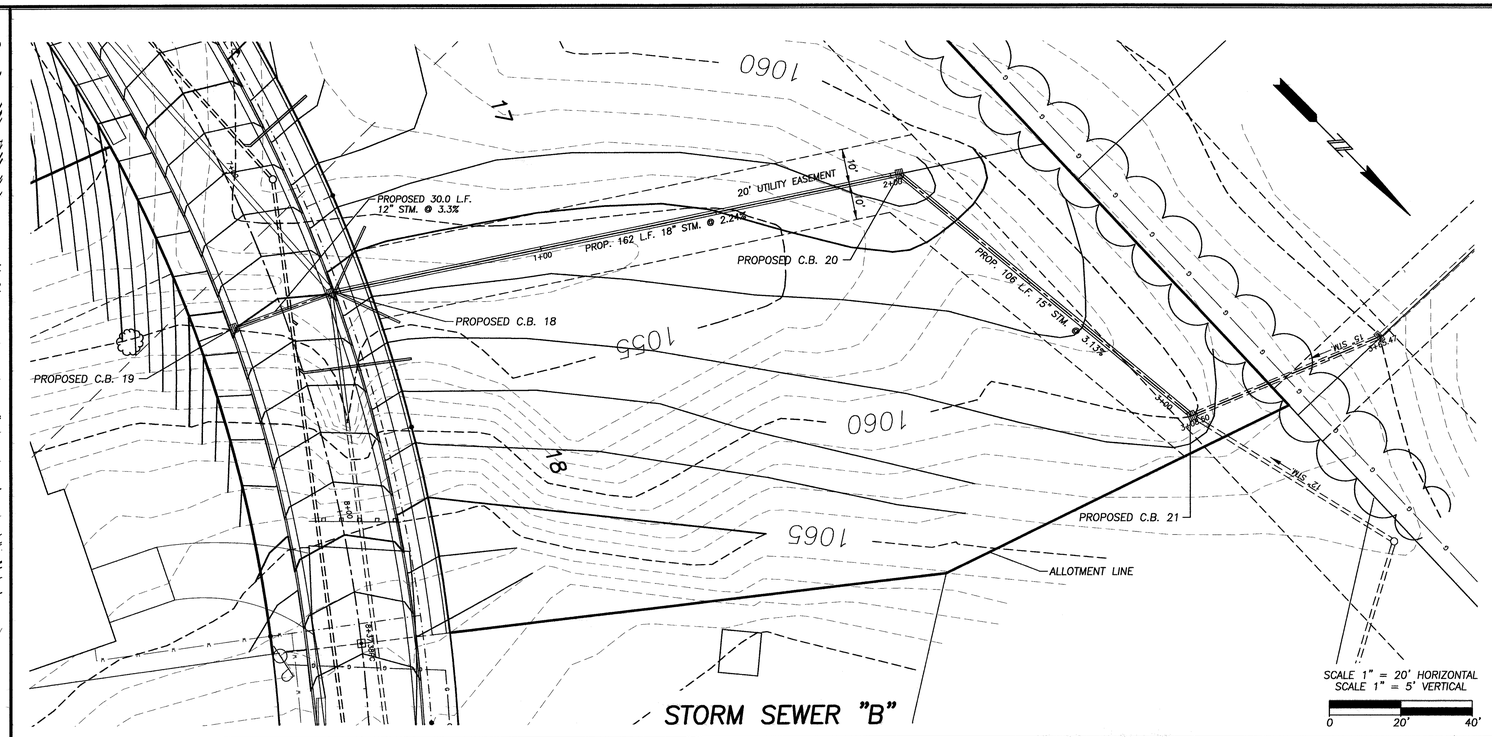
DATE:
AUGUST, 2013

DRAWN BY:
RDA

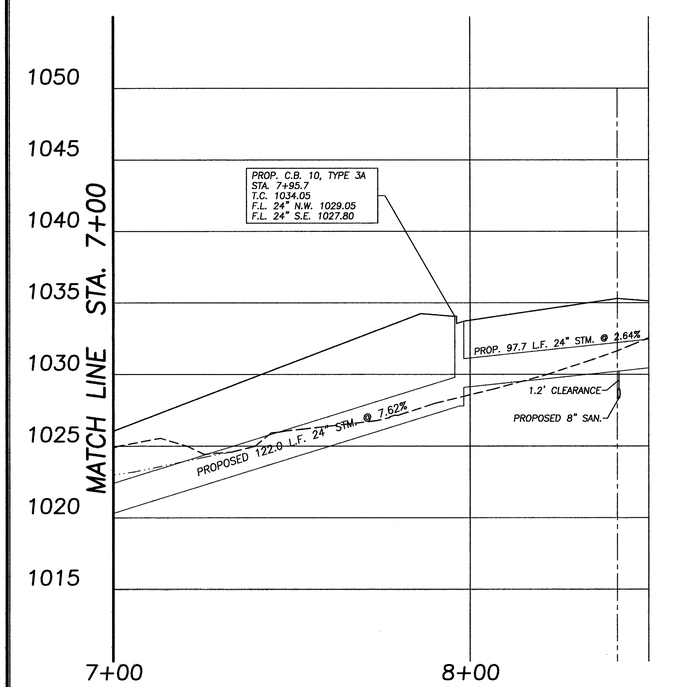
1319_PP12

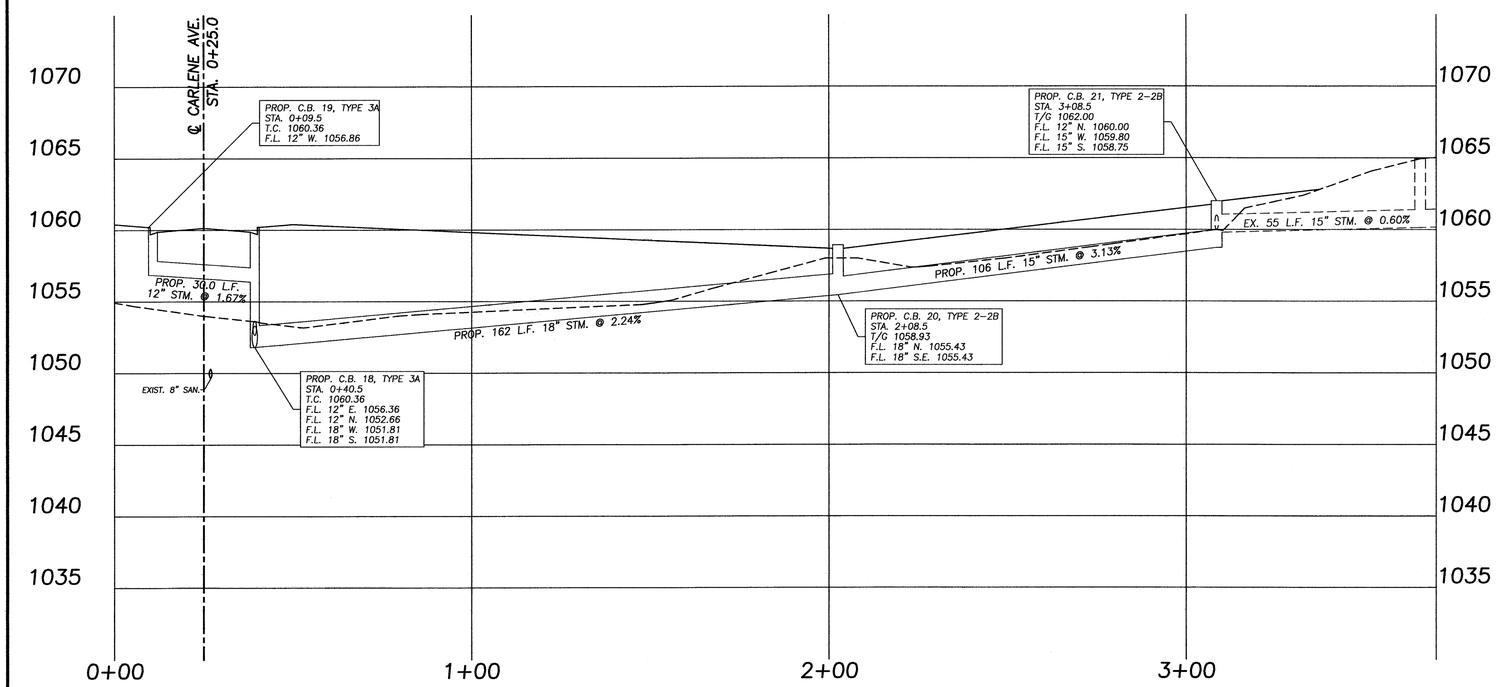


STORM SEWER "A"



STORM SEWER "B"





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PLAN & PROFILE
23RD. STREET S.W.
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	HDM
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	HDM
REVISED PER: CITY OF MASSILLON COMMENTS	1/14/14	DNB	HDM

PROJECT No.
1319

SHEET No.
16

DATE:
AUGUST, 2013

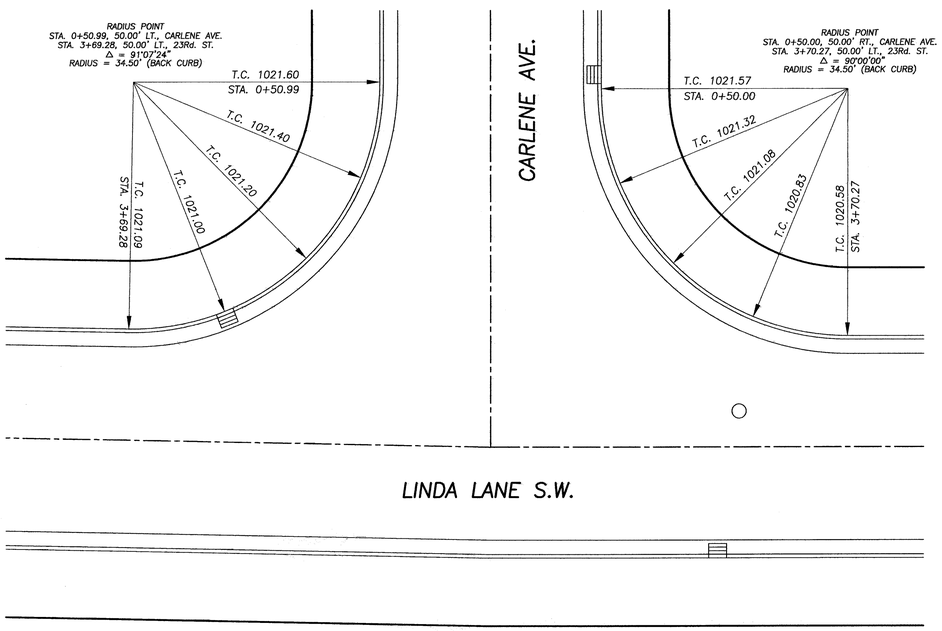
DRAWN BY:
RDA

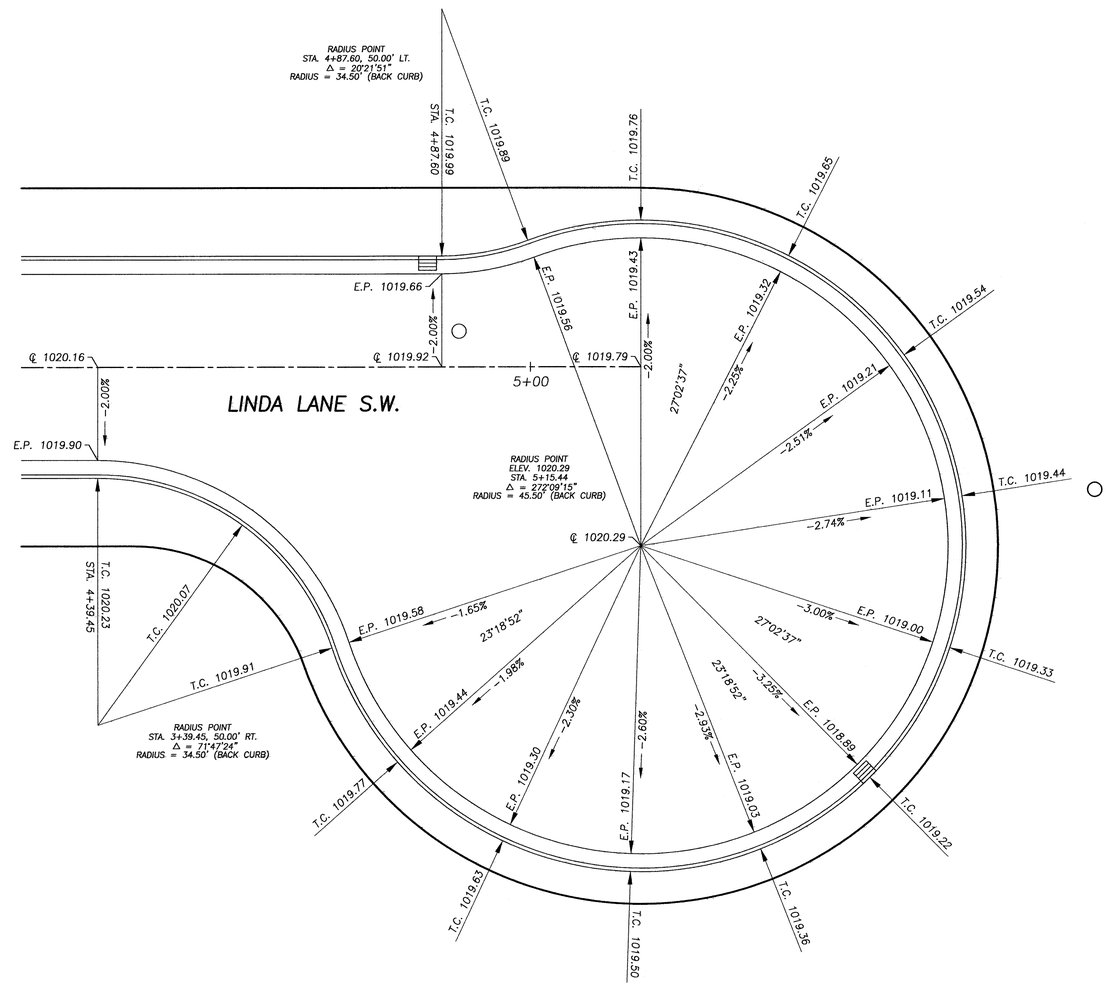
1319_PP12

NOTES:

T.C. INDICATES TOP OF CURB

TOP OF CURB ELEVATIONS ARE TO FULL HEIGHT CURB
SEE CITY DETAIL FOR WHEELCHAIR RAMP DETAILS





SCALE 1" = 10'

0 10' 20'

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

INTERSECTION DETAIL
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	1/20/14	RDA	

PROJECT No.
1319

SHEET No.
17

DATE:
AUGUST, 2013

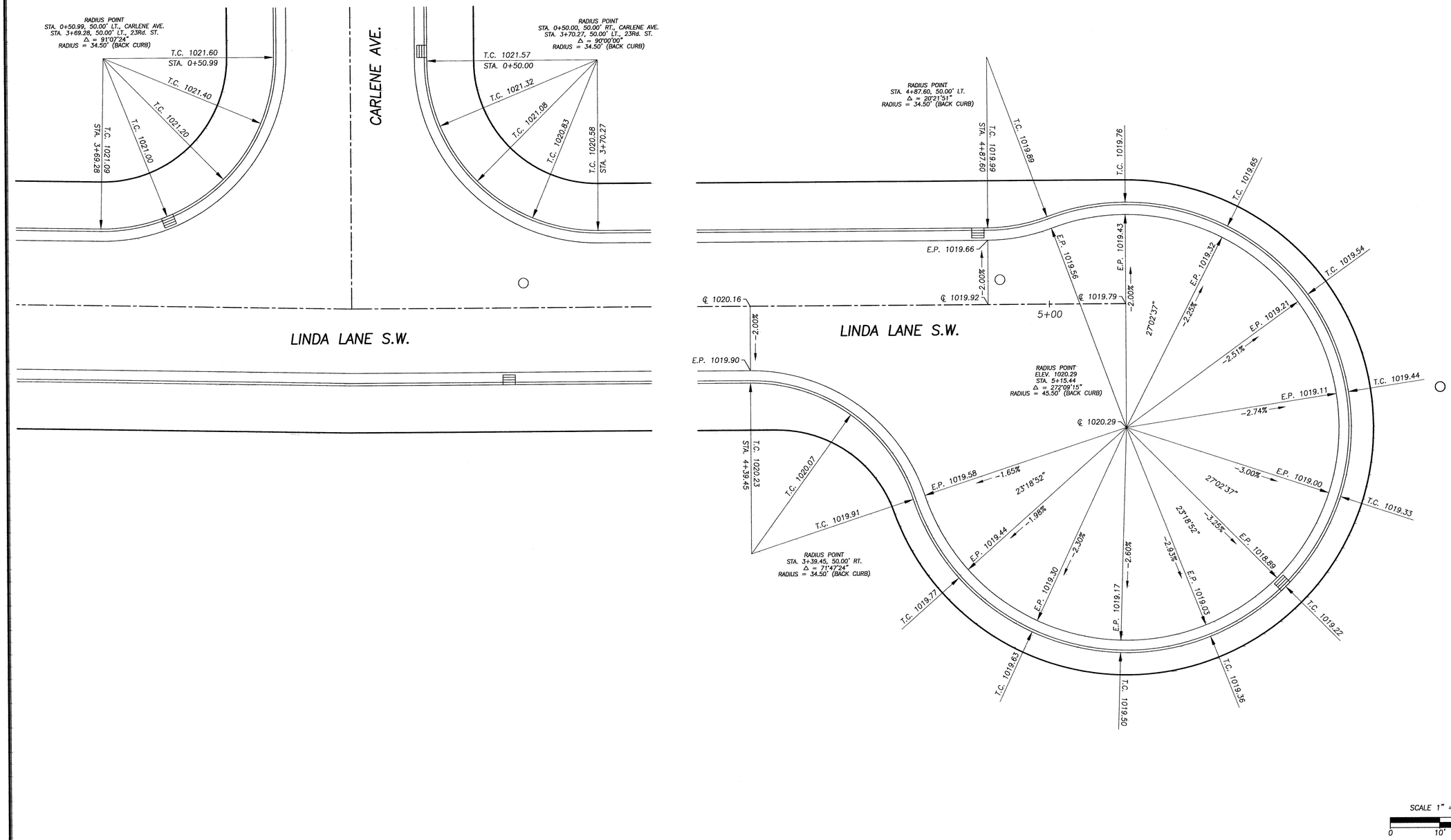
DRAWN BY:
RDA

1319_DET1

NOTES:

T.C. INDICATES TOP OF CURB

TOP OF CURB ELEVATIONS ARE TO
FULL HEIGHT CURB
SEE CITY DETAIL FOR WHEELCHAIR RAMP DETAILS



Civil Design Associates, Inc.
Consulting Engineers * Surveyors
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INTERSECTION DETAIL

COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	1/20/14	RDA	

PROJECT No.
1319

SHEET No.
17

DATE:
AUGUST, 2013

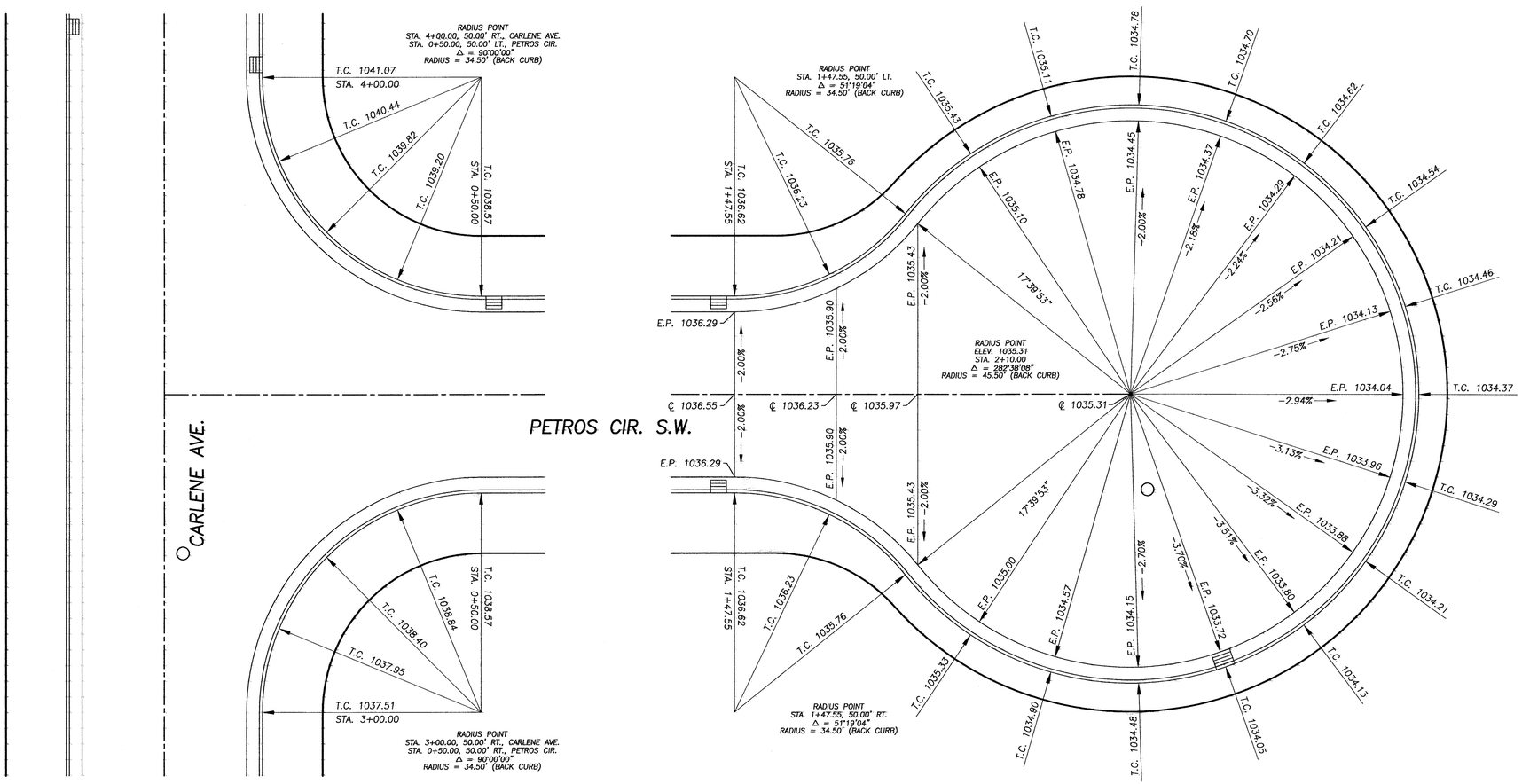
DRAWN BY:
RDA

1319_DET1

NOTES:

T.C. INDICATES TOP OF CURB

TOP OF CURB ELEVATIONS ARE TO
FULL HEIGHT CURB
SEE CITY DETAIL FOR WHEELCHAIR RAMP DETAILS



SCALE 1" = 10'

0 10' 20'

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

INTERSECTION DETAIL
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHK'D
REVISED PER: CITY OF MASSILLON COMMENTS	1/20/14	RDA	

PROJECT No. 1319

SHEET No. 18

DATE: AUGUST, 2013

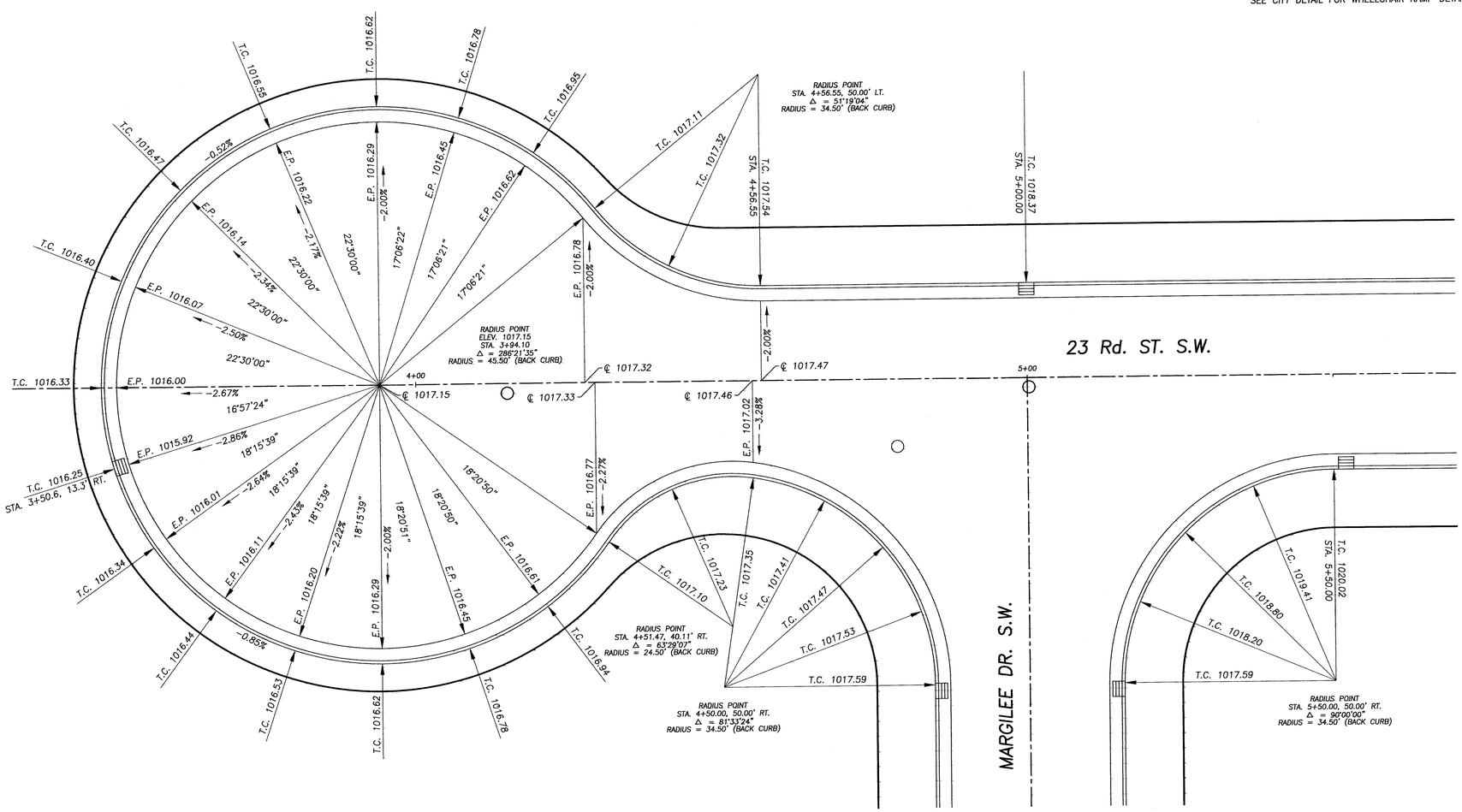
DRAWN BY: RDA

1319_DET1

NOTES:

T.C. INDICATES TOP OF CURB

TOP OF CURB ELEVATIONS ARE TO
FULL HEIGHT CURB
SEE CITY DETAIL FOR WHEELCHAIR RAMP DETAILS



SCALE 1" = 10'

0 10' 20'

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

INTERSECTION DETAIL
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: STORM SEWER REVISIONS	11/19/13	DNB	
REVISED GRADING	12/5/13	RDA	
REVISED GRADING	1/21/14	RDA	

PROJECT No.
1319

SHEET No.
19

DATE:
AUGUST, 2013

DRAWN BY:
RDA

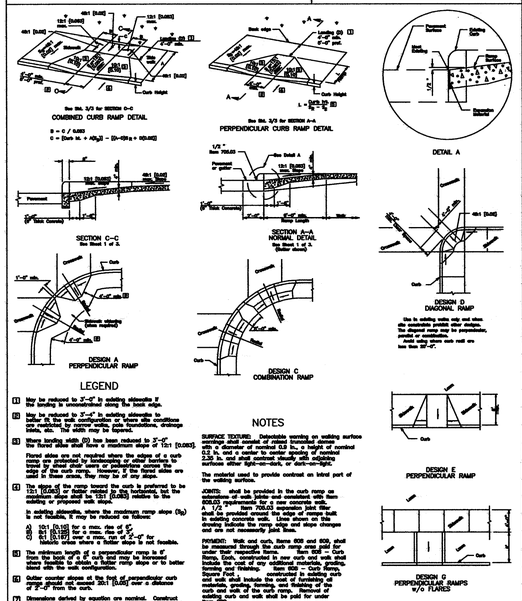
1319_DET1

Kathy Catazaro-Perry, Mayor

Massillon
City of Champions

CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

CURB RAMP DETAILS



LEGEND

1. May be reduced to 3'-0" in existing sidewalks if the landing is unconditioned along the back edge.
2. May be reduced to 3'-0" in existing sidewalks in rare instances where conditions are restricted by approved walks, gate foundations, drainage inlets, etc. The width may be tapered.
3. Where landing width (D) has been reduced to 3'-0", the flares shall then have a maximum slope of 12:1 (0.083).

   Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers, or where it would cause an undesirable change in the level of street users or pedestrians across the edge of the curb ramp. However, if the flared sides are not linear slopes, they may not be any steeper.
4. The slope of the ramp toward the curb is preferred to be 12:1 (0.083) but may be steeper, but not steeper than the maximum slope shall be 10:1 (0.100) relative to the existing or proposed walk slope.

   In existing sidewalks, where the sandstone ramp slope (Sg) is not feasible, it may be reduced as follows:

   (Sg) 9:1 (0.108) for a max. rise of 6"
   (Sg) 8:1 (0.125) for a max. rise of 4"
   (Sg) 6:1 (0.167) over a max. rise of 2'-0" for historic areas where a better slope is not feasible.
5. The minimum length of a perpendicular ramp is 4' from the back of a 6" curb and may be increased to the length of the flares if a steeper ramp slope or to better align with the curb ramp, or both.
6. Outer counter slopes of the foot of perpendicular curb ramps shall not exceed 20:1 (0.05) over a distance of 2'-0" from the curb.
7. Dimensions derived by equation are nominal. Construct ramps to meet required slopes and existing conditions.

NOTES

SURFACE TEXTURE: Detectable warning on walking surface envelope shall consist of raised truncated domes with a diameter of nominal 0.9 in., a height of nominal 0.2 in., and a center to center spacing of nominal 2.35 in. and shall contrast visually with adjoining surfaces either light-on-dark, or dark-on-light.

The material used to provide contrast on brief part of the walking surface.

JOINTS: shall be provided in the curb ramp as expansion of weak joints and consistent with Item 608.03 requirements for a new concrete walk.

A 1/2" Item 705.03 expansion joint filler shall be provided around the edge of ramps that abut a concrete curb, building, or other fixed object. Grooving indicate the ramp edge and wave changes and do not necessarily joint lines.

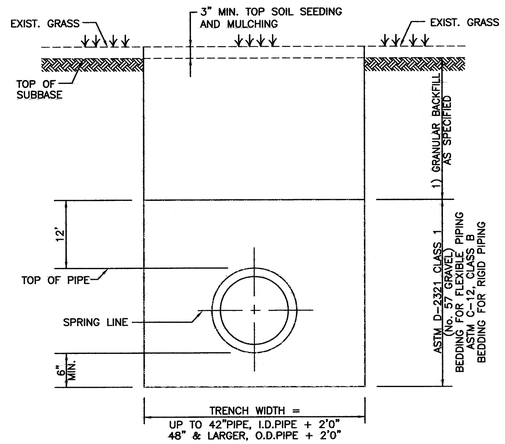
DETAILS: Walk and curb flares 609 and 608 shall be constructed through the ramp area and joint for under that expansion flares. Flare Wall or Curb Ramp, Each, constructed in new curb and walk shall include the cost of any required excavation, forms, formed finishing, 6" Item 659 Topsoil, Grass Seeding and Mulching, constructed in existing curb and walk shall include the cost of furnishing all materials, grading, forming, and finishing of the walk and shall of the walk ramp. Removal of existing curb and walk shall be paid for under Item 202.

Kathy Catazaro-Perry, Mayor

Massillon
City of Champions

CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

TRENCH DETAIL OUTSIDE ROADWAY



NOTES

1) EXCAVATED MATERIAL MAY BE USED IF FOUND TO BE IN ACCEPTABLE CONDITION AS DETERMINED BY THE CITY ENGINEER.

Kathy Catazaro-Perry, Mayor

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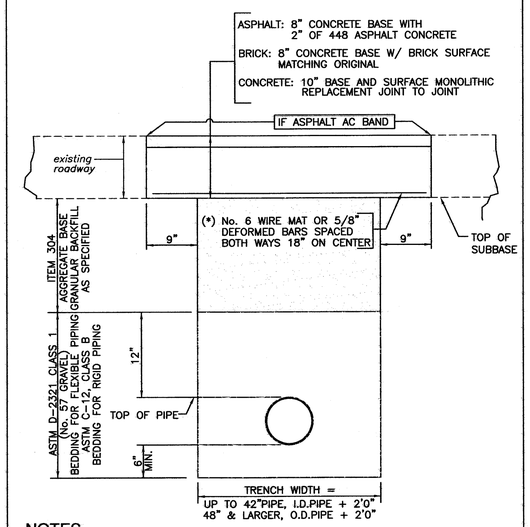
TRENCH DETAIL WITHIN ROADWAY/DRIVEWAY



NOTES

1) CONCRETE BASE SHALL BE OF 1:2:4, 6 BAG MIX, PORTLAND CEMENT CONCRETE USING HIGH EARLY STRENGTH CEMENT AND IT MUST BE CURED AT LEAST 48 HRS.

(*) MUST BE USED WHEN WIDTH OF TRENCH IS GREATER THAN 3' AT THE SUBBASE. FIBER CONCRETE BASE MAY BE USED IN LIEU OF THE BARS.

Kathy Catazaro-Perry, Mayor

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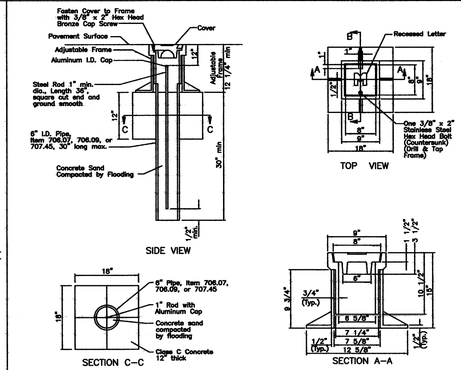
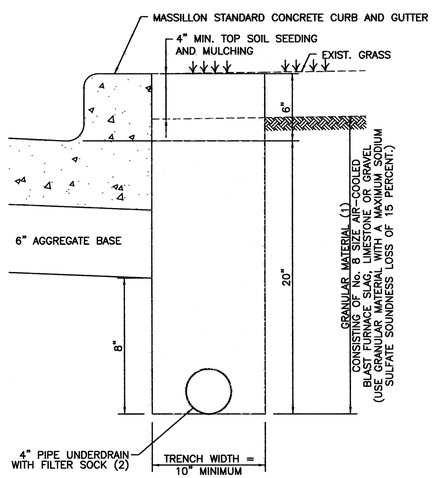
CENTERLINE MONUMENT DETAILS



MONUMENTS

Monuments shall be constructed in accordance with detail as shown on the standard construction drawings and at the locations on previous sheets.

4" UNCLASSIFIED PIPE UNDERDRAIN DETAILS



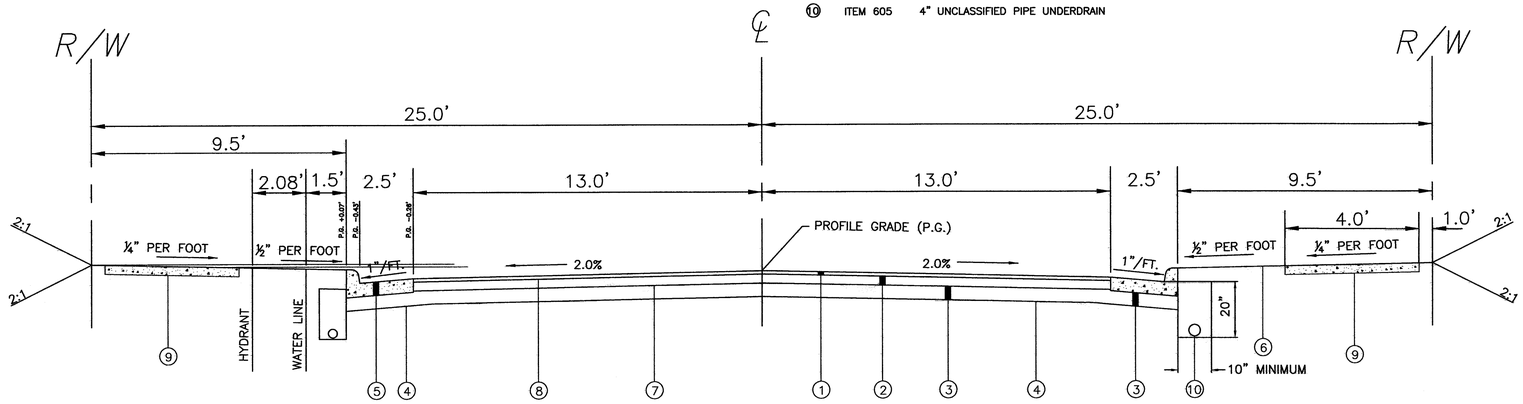
NOTES

(1) EXCAVATED MATERIAL MAY BE USED IF FOUND TO BE IN ACCEPTABLE CONDITION AS DETERMINED BY THE CITY ENGINEER.

(2) FILTER SOCK SHALL MEET OR EXCEED ASTM D6707.

LEGEND

1	ITEM 448	1-1/2" ASPHALT CONCRETE
2	ITEM 301	4" BITUMINOUS AGGREGATE BASE
3	ITEM 304	6" AGGREGATE BASE (2-3" LIFTS)
4	ITEM 203.13	COMPACTED SUBGRADE
5	ITEM 609	MASSILLON STANDARD CONCRETE CURB AND GUTTER
6	ITEM 659	SEEDING AND MULCHING
7	ITEM 408	PRIME COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ.YD.
8	ITEM 407	TACK COAT TO BE APPLIED AT THE RATE OF 0.4 GAL./SQ.YD. (AS REQUIRED)
9	ITEM 608	CONCRETE WALK (4" THICKNESS, INCREASE TO 6" @ DRIVEWAYS) WALK CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL HOMEOWNER.
10	ITEM 605	4" UNCLASSIFIED PIPE UNDERDRAIN



ROADWAY TYPICAL SECTION

SCALE: NONE

Civil Design Associates, Inc.
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NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

STANDARD DETAILS COUNTRY VIEW MEADOWS IN THE CITY OF MASSILLON STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	1/22/14	DNB	HDM

PROJECT No. 1319

SHEET No. 20

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_DETAILS

MATERIAL SPECIFICATIONS

DUCTILE IRON PIPE.
TYPE REQUIRED: PUSH-ON JOINTS, CEMENT LINED, PRESSURE CLASS 350 FOR 4 INCH THROUGH 12 INCH, THICKNESS CLASS 52 FOR 16 INCH, MANUFACTURING STANDARDS, AWWA C150 AND C151. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED ON ALL DUCTILE PIPE AND FITTINGS.

DUCTILE IRON FITTINGS. (TEES, CROSSES, BENDS, REDUCERS, SLEEVES, COUPLINES AND PLUGS.)
TYPE REQUIRED: MECHANICAL JOINT, TEES, CROSSES, BENDS AND REDUCERS ARE TO BE CEMENT LINE: WORKING PRESSURE RATING 250 PSI, MANUFACTURING STANDARDS ANSI A21.53, ANSI A21.4 AND ANSI A21.10. COMPACT STYLE IS ACCEPTABLE. RETAINER GLANDS SHALL BE INSTALLED WHENEVER THERE IS A POSSIBILITY OF JOINT SEPARATION.

FIRE HYDRANTS.
TYPE REQUIRED: POST TYPE, BREAKABLE FLANGE DESIGN FOR TRAFFIC COLLISIONS, 5 1/4" DIAMETER MAIN VALVE, ONE 4 1/2" PUMPER AND TWO 2 1/2" HOSE NOZZLES, 6" MJ INLET, MAIN VALVE TO OPEN LEFT, DIRECTION OF OPENING TO BE INDICATED WITH ARROW CAST ON HYDRANT, TO BE DESIGNED FOR 5 FOOT TRENCH, NATIONAL STANDARD THREADS ON NOZZLES, O-RING PACKING PREFERRED, TYPE 304 STAINLESS STEEL BOLTS AND NUTS, OPERATING NUT AND NUT ON CAPS: 1 1/3" PENTAGON, COLOR YELLOW PAINT ON BODY TRIMMED WITH RED PAINT ON BONNET AND CAPS, AWWA STANDARD C502, MUELLER CENTURION A423, US PIPE M-94 OR CLOW MEDALLION.

TAPPING VALVES.
TYPE REQUIRED: RESILIENT SEAT, IRON BODY, STAINLESS STEEL BONNET BOLTS AND NUTS, MECHANICAL JOINT ACCESSORIES, NON-RISING STEM, FOR UNDERGROUND SERVICE, O-RING PACKING PREFERRED, "OPEN RIGHT" (CLOCKWISE) 2 INCH SQUARE OPERATING NUT, MANUFACTURING STANDARDS AND PRESSURE RATINGS AWWA SPECIFICATION C-500.

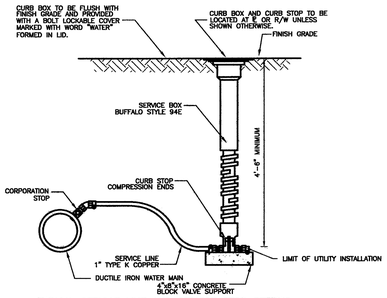
4" THROUGH 12" GATE VALVES.
TYPE REQUIRED: RESILIENT SEAT, IRON BODY, STAINLESS STEEL BONNET BOLTS AND NUTS, MECHANICAL JOINT ACCESSORIES, NON-RISING STEM, FOR UNDERGROUND SERVICE, O-RING PACKING PREFERRED, "OPEN RIGHT" (CLOCKWISE), 2 INCH SQUARE OPERATING NUT, MANUFACTURING STANDARDS AND PRESSURE RATINGS AWWA C509, MUELLER A-2360 OR EQUAL.

VALVE BOXES.
TYPE REQUIRED: TWO PIECE, CAST IRON, SCREW TYPE FOR ADJUSTABLE HEIGHT, HEIGHT RANGE TO BE APPROXIMATELY 36 TO 60 INCHES. THEY ARE TO INCLUDE A WELL FITTING CAST IRON LID, THE WORD "WATER" TO BE CAST IN LID.

2" WATER MAIN.
2" WATER MAIN SHALL BE SOFT DRAWN TYPE "K" COPPER TUBING OR HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), COPPER TUBE SIZE, AS CALLED OUT ON THE PLAN. IF HDPE IS USED, IT SHALL BE 200 PSI, SDR 9 WITH MARKING TAPE AND A 12 GAGE COPPER TRACER WIRE LAID IN TRENCH. BRASS COMPRESSION FITTINGS SHALL BE USED. STAINLESS STEEL STIFFENERS ARE NECESSARY AT EACH JOINT.

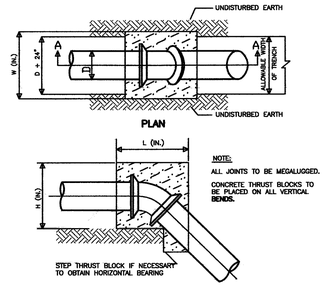
POLYETHYLENE ENCASEMENT.
TYPE REQUIRED: EIGHT MIL THICK POLYETHYLENE ADHESIVE TUBE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5. POLYETHYLENE ADHESIVE TAPE, 1 1/2" WIDE, IS TO SEAL JOINTS.

BLOW OFF ASSEMBLIES.
TYPE REQUIRED: KUPPERLE FOUNDRY TF500 OR APPROVED EQUAL. INSTALL IN VALVE BOX. INSTALL 2" CURB STOP WITH CURB BOX AHEAD OF EACH BLOW OFF.



TYPICAL SERVICE LINE AND SERVICE STOP SETTING
SCALE: NONE

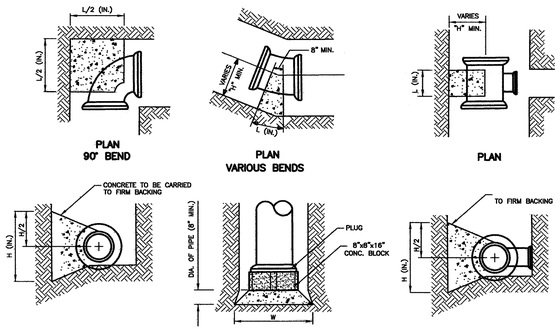
SIZE OF PIPE	DEGREE OF BEND 11 1/4°			DEGREE OF BEND 22 1/2°			DEGREE OF BEND 45°			DEGREE OF BEND 90°		
	L	W	H	L	W	H	L	W	H	L	W	H
3"	12	18	15	13	24	15	18	30	16	28	30	20
4"	13	24	18	18	30	18	25	30	20	27	40	24
6"	15	38	18	27	38	18	30	44	24	36	48	38
8"	20	40	20	28	48	22	34	50	34	43	58	42
10"	24	44	22	32	54	27	40	58	40	51	64	50
12"	32	48	24	36	60	30	46	60	46	60	66	58
14"	34	54	26	40	60	38	54	60	53	66	73	66
16"	35	60	30	42	66	42	59	66	58	72	80	72
18"	38	66	32	48	66	46	66	66	65	75	94	74
20"	38	70	36	54	66	50	68	76	68	78	106	78
24"	42	72	44	60	72	60	78	84	77	90	114	90



NOTE:
ALL JOINTS TO BE MEGALUGGED.
CONCRETE THRUST BLOCKS TO BE PLACED ON ALL VERTICAL BENDS.

NOTES:
1. BLOCKING TO BE CENTERED ON BEND HORIZONTALLY.
2. ALL CONCRETE TO BE FILL CONCRETE.
3. L & W & H DIMENSIONS ARE IN INCHES.
4. BLOCKING DESIGN BASED ON A WORKING PRESSURE OF 125 PSI AND A SOIL BEARING OF 3000 LB./SQ. FT.

CONCRETE THRUST BLOCKS FOR VERTICAL BENDS ON WATER MAINS
SCALE: NONE



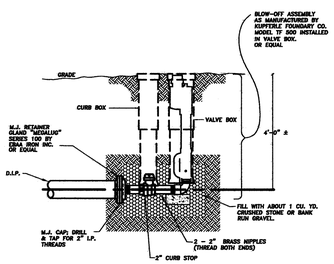
L & H DIMENSIONS ARE IN INCHES

SIZE OF PIPE	DEGREE OF BEND 11 1/4°		22 1/2°		45°		90°	
	L	H	L	H	L	H	L	H
2"	4	3	4	4	5	4	10	5
3"	4	3	5	4	7	5	16	6
4"	5	4	7	5	10	6	20	8
6"	6	6	10	7	17	8	30	12
8"	8	8	14	9	19	13	36	18
10"	10	10	17	11	22	17	44	22
12"	12	12	19	15	24	22	48	29
14"	14	14	20	19	25	29	52	36
16"	16	16	20	24	27	35	58	42

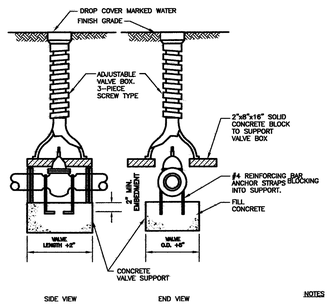
HORIZONTAL THRUST BLOCKS
SCALE: NONE

RUN	BRANCH 2"		3"		4"		6"		8"		10"		12"	
	L	H	L	H	L	H	L	H	L	H	L	H	L	H
2"	6	5												
3"	6	5	8	6										
4"	6	5	8	6	12	7								
6"	6	6	8	6	10	8	15	12						
8"	6	8	8	6	10	8	15	12	18	18				
10"	6	10	6	10	8	10	15	12	18	18	22	22		
12"	6	12	6	12	7	12	15	12	18	18	22	22	24	29
14"	6	14	6	14	6	14	13	14	18	18	22	22	28	27

NOTE: USE FILL CONCRETE. DESIGN BASED ON A WORKING PRESSURE OF 125 PSI AND A SOIL BEARING OF 3000 LB./ SQ. FT.



BLOW-OFF ASSEMBLY
SCALE: NONE

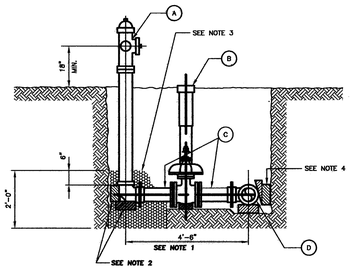


TYPICAL VALVE AND VALVE BOX SETTING
SCALE: NONE

NOTES

1. THE DISTANCE FROM THE CENTERLINE OF THE MAIN TO THE CENTERLINE OF HYDRANT WILL BE 4'-6" EXCEPT WHEN INDIVIDUAL CIRCUMSTANCES PROVE IT TO BE INFEASIBLE. WHEN SUCH CIRCUMSTANCES OCCUR, THE LENGTH OF THE LEAD WILL BE NOTED ON THE DRAWINGS WITH THE STATIONING.
2. SOLID CONCRETE BLOCK TO BE USED UNDER ALL TEES, VALVES AND BEHIND AND UNDER HYDRANT ELBOW.
3. CRUSHED STONE FILL AROUND HYDRANT DRAIN AND TO A DEPTH OF 2'-0".
4. SOLID CONCRETE BLOCK WITH OAK WEDGES. (BRACED AGAINST UNDISTURBED SOIL)
5. 6" RETAINER GLANDS TO BE USED AT EACH JOINT (4 REQUIRED)

ITEM	DESCRIPTION
A	MUELLER HYDRANT, 3-WAY "CENTURION" MODEL
B	6" M.J. GATE VALVE, 3 PIECE VALVE BOX
C	6" x 18" P.E. DUCTILE IRON PIPE
D	STANDARD M.J. TEE



FIRE HYDRANT DETAIL, TYPE MA
SCALE: NONE

NOTES

HOSE AND PUMPER NOZZLE THREADING:

HOSE NOZZLE: 2-1/2" - THREADS, 3-1/16" O.D.: 7-1/2" THREADS PER INCH

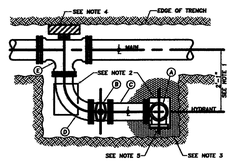
PUMPER NOZZLE: 4-1/2" - THREADS, 5-3/4" O.D.: 4 THREADS PER INCH

DIRECTION OF OPENING: LEFT

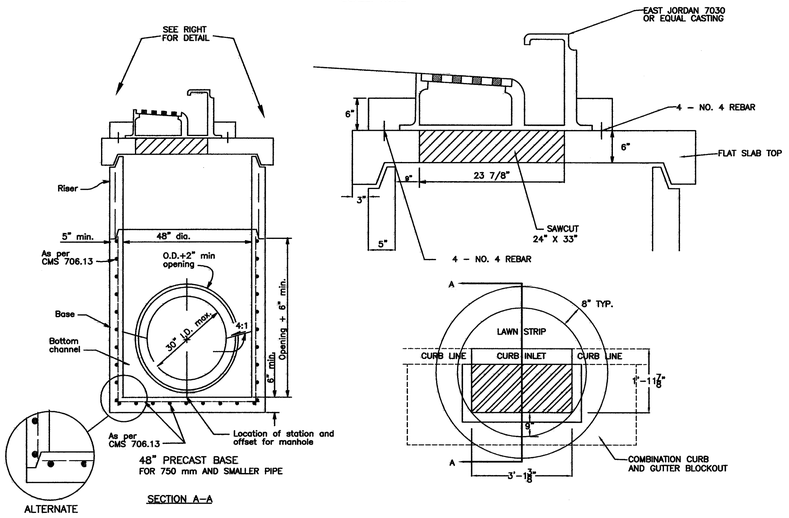
NOTES

1. THE DISTANCE FROM THE CENTERLINE OF MAIN TO THE CENTERLINE OF HYDRANT WILL BE 25" EXCEPT WHEN INDIVIDUAL CIRCUMSTANCES PROVE IT TO BE INFEASIBLE. WHEN SUCH CIRCUMSTANCES OCCUR, THE LENGTH OF THE LEAD WILL BE NOTED ON THE DRAWINGS WITH THE STATIONING.
2. SOLID CONCRETE BLOCK TO BE USED UNDER ALL TEE'S, BENDS AND BEHIND AND UNDER HYDRANT ELBOW.
3. CRUSHED STONE FILL AROUND HYDRANT DRAIN AND TO A DEPTH OF 2'-0".
4. SOLID CONCRETE BLOCK WITH OAK WEDGES. (BRACED AGAINST UNDISTURBED SOIL)
5. PUMPER NOZZLE FACING STREET.

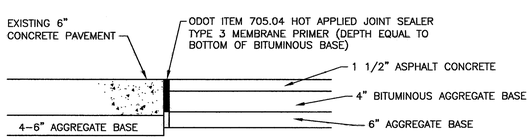
ITEM	DESCRIPTION
A	MUELLER HYDRANT, 3-WAY "CENTURION" MODEL
B	6" M.J. GATE VALVE, 3 PIECE VALVE BOX
C	ANCHOR COUPLING (F-12211)
D	ANCHOR ELBOW (F-12218)
E	STANDARD M.J. TEE



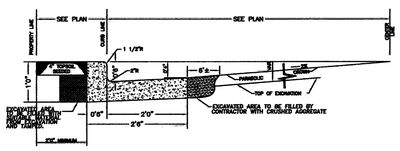
FIRE HYDRANT DETAIL, TYPE III
SCALE: NONE



CATCH BASIN - 3A MODIFIED
SCALE: NONE



SAWCUT/JOINT SEALER DETAIL
SCALE: NONE



MASSILLON STANDARD CURB & GUTTER DETAIL
SCALE: NO SCALE

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

STANDARD DETAILS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: AQUA OHIO COMMENTS	9/11/13	RDA	HDM

PROJECT No. 1319

SHEET No. 21

DATE: AUGUST, 2013

DRAWN BY: RDA

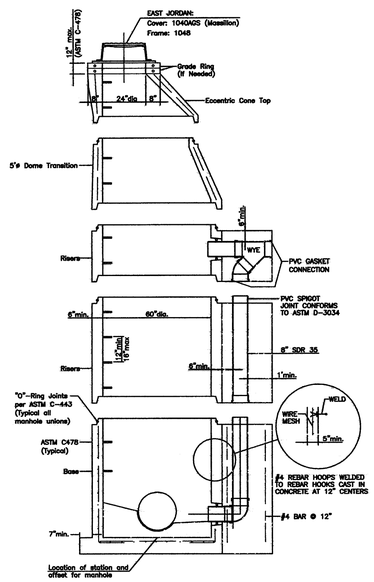
1319_DETAILS

Kathy Catazaro-Perry, Mayor

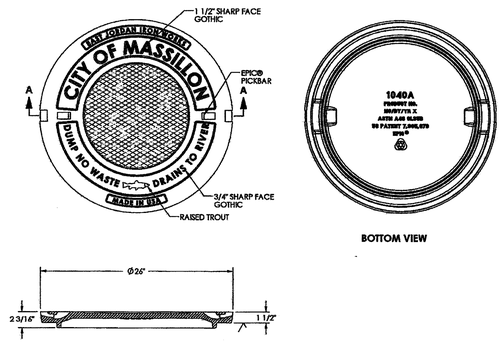
Massillon
City of Champions

CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

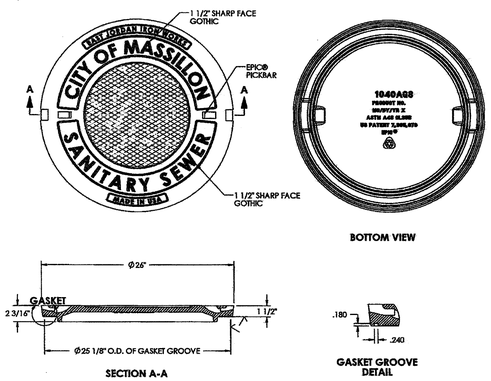
STANDARD DROP MANHOLE



1040A Cover



1040AGS Cover



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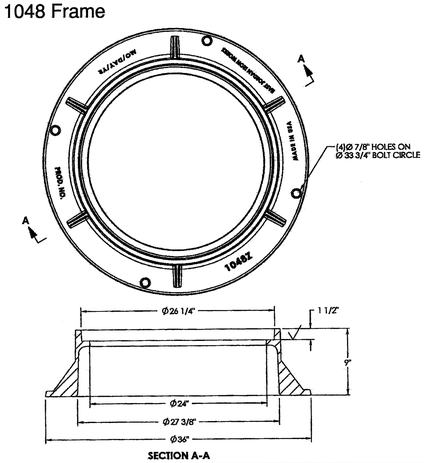
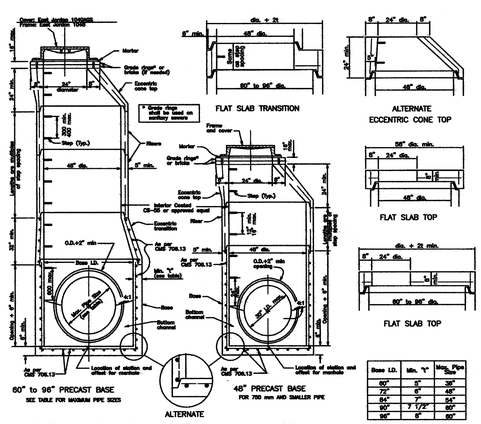


Kathy Catazaro-Perry, Mayor

Massillon
City of Champions

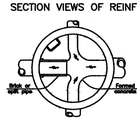
CITY OF MASSILLON ENGINEERING
151 LINCOLN WAY EAST
MASSILLON, OHIO (330)830-1722
FAX: (330)830-1786

MANHOLE TYPE 3



Base I.D.	Min. "t"	Max. Pipe Size
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	60"

SECTION VIEWS OF REINFORCED PRECAST MANHOLES



SECTION BELOW SPRING LINE

Showing method of turning side drain which enter the manhole at the flowline

NOTES

GENERAL: With normal soil and site conditions this standard precast manhole may be used for any required manhole depth.

The use of this precast manhole chart is not not approved for the placement of manhole or of a cast iron lid. Lift holes may be provided in shaft section for handling.

TOP AND TRANSITION (OR REDUCER). This section shall be a flat slab unless an eccentric cone is specified.

RISER: Manhole No. 3 is shown with a reducedtop section and risers which may be used to use the same forms for manholes of different depths and with the base and barrel properties. Provision for lift and outlet pipes shall be provided, either when

Bottom channels may be formed of concrete, precast in the base or field constructed as shown

RISER SECTIONS. Openings for 12" and smaller field pipes may be either precast or cut in the field. Openings for larger diameters or cut in the field pipes only in other manholes or cut in the field pipes only in other manholes if the springline do not project into the manhole.

CONNECTIONS: Connecting between precast manhole sections and pipes on sewage service may be sealed with resilient elastomers conforming to ASTM C 923.

JOINT SEAL: Seal between precast manhole sections and sanitary sewers shall be resilient and flexible gasket joints per CMS 705.11.

MATERIALS: Materials for bases and other precast units shall be Portland cement concrete and shall comply with the requirements of CMS 706.13.

DROP PIPE: When specified on the plans, drop pipe shall be constructed as shown on SM-3.1b.

STEPS, FRAMES AND COVERS: Shall comply with the requirements set forth on sm-1.1b.

CONNECTIONS: Connecting between precast manhole sections and pipes on sewage service may be sealed with resilient elastomers conforming to ASTM C 923.

JOINT SEAL: Seal between precast manhole sections and sanitary sewers shall be resilient and flexible gasket joints per CMS 705.11.

MATERIALS: Materials for bases and other precast units shall be Portland cement concrete and shall comply with the requirements of CMS 706.13.

DROP PIPE: When specified on the plans, drop pipe shall be constructed as shown on SM-3.1b.

STEPS, FRAMES AND COVERS: Shall comply with the requirements set forth on sm-1.1b.

Civil Design Associates, Inc.
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1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

STANDARD DETAILS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD

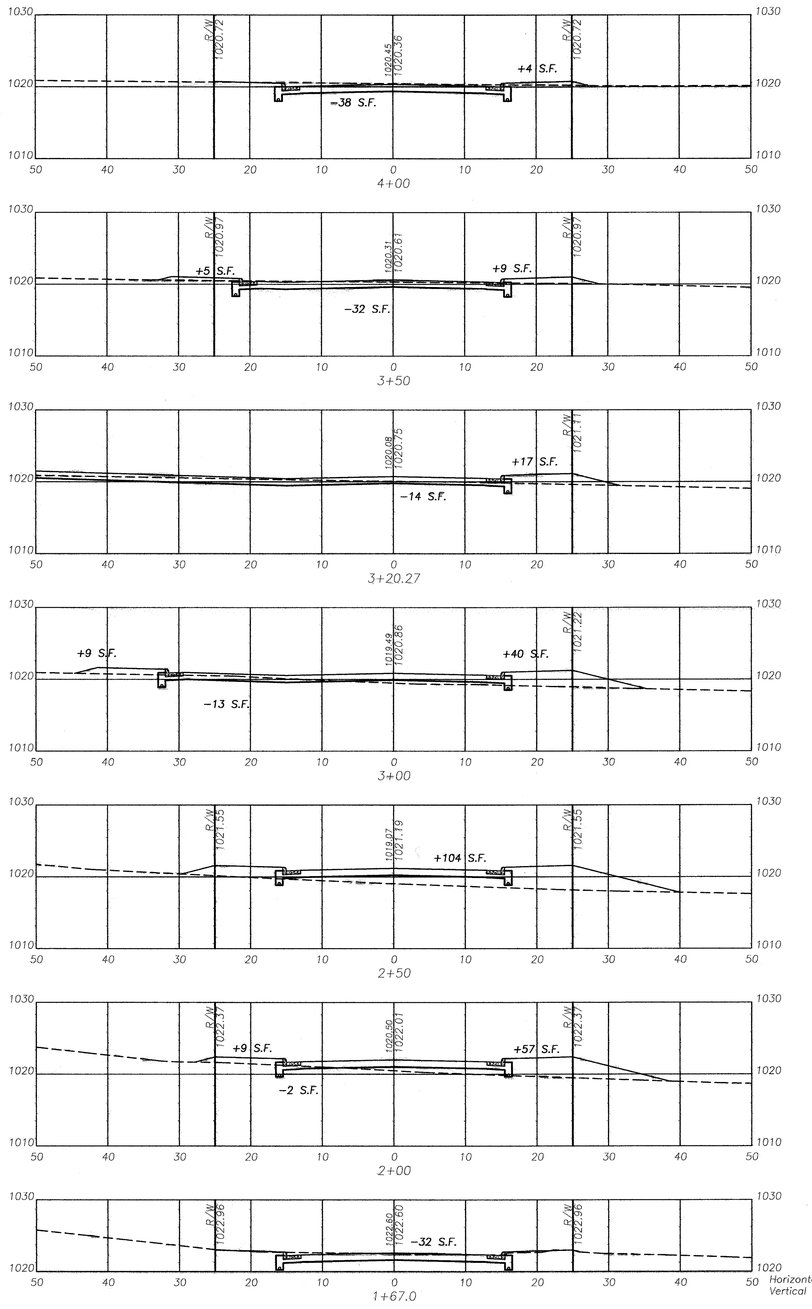
PROJECT No. 1319

SHEET No. 22

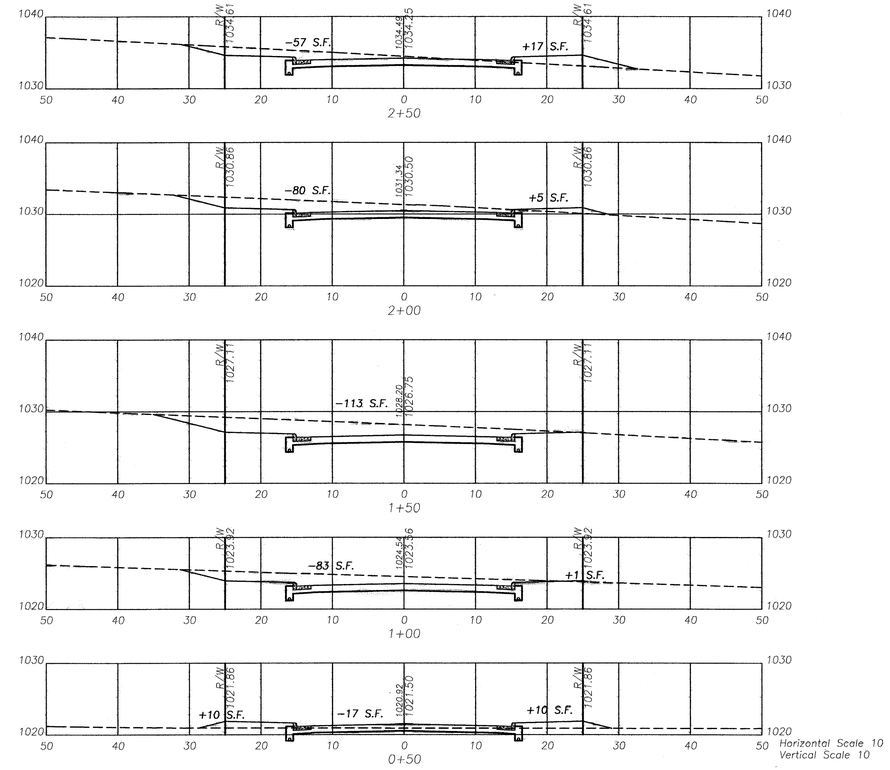
DATE: JANUARY, 2014

DRAWN BY: DNB

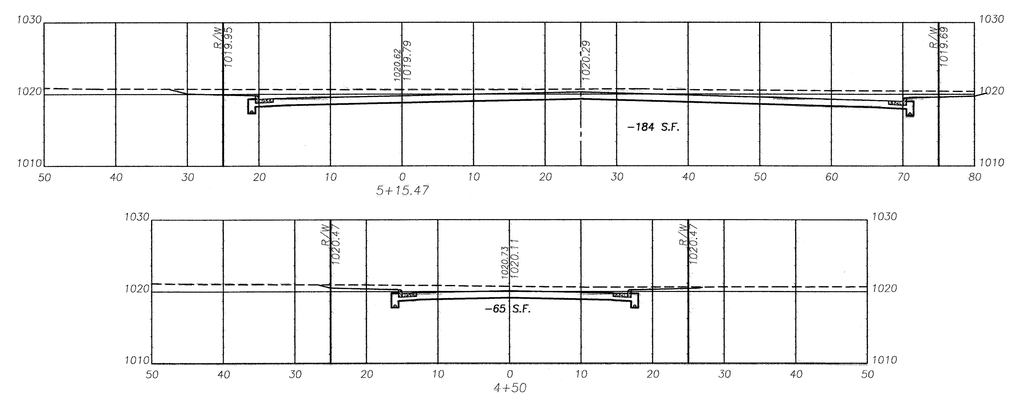
1319_DETAILS



LINDA LANE



CARLENE AVE.



LINDA LANE

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CROSS SECTIONS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	1/27/14	DNB	

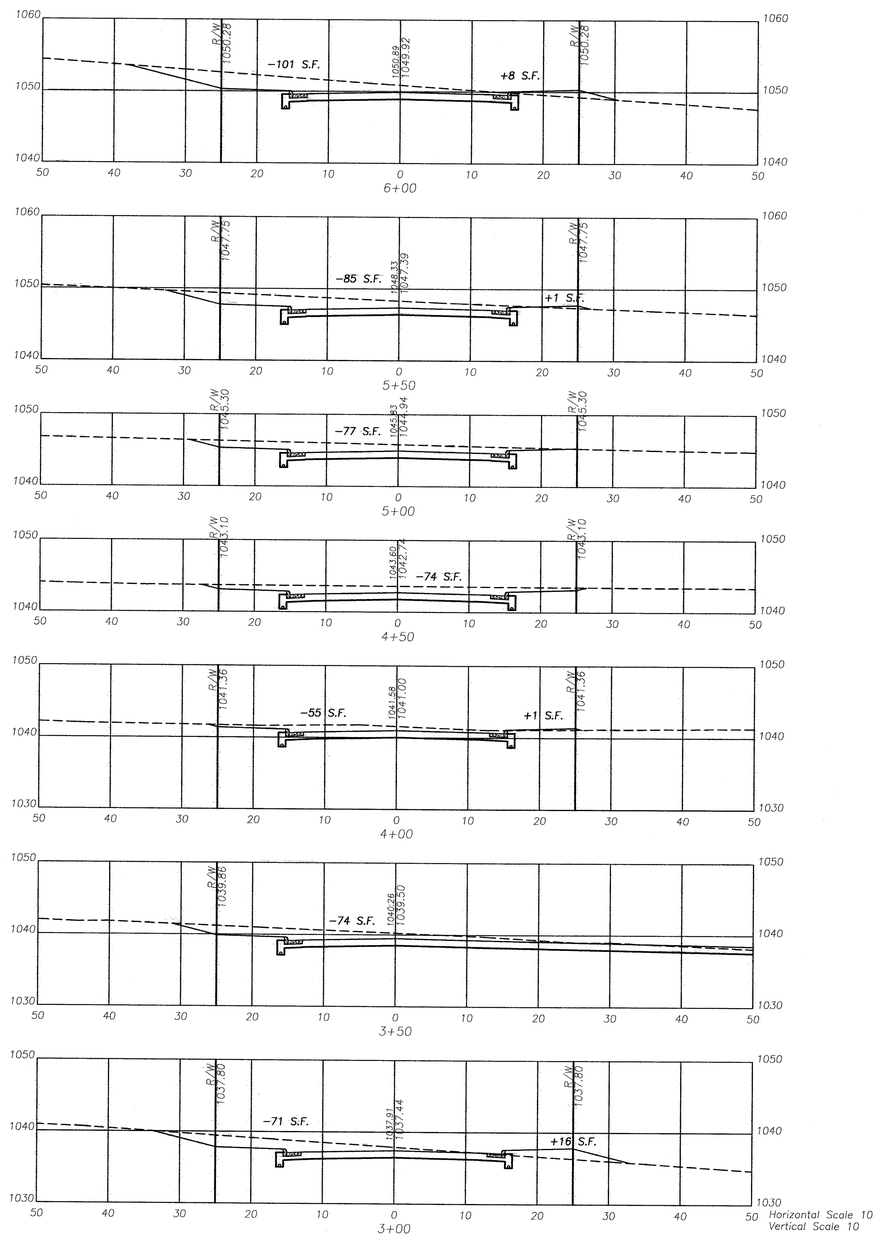
PROJECT No. 1319

SHEET No. X1

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_X-SEC1



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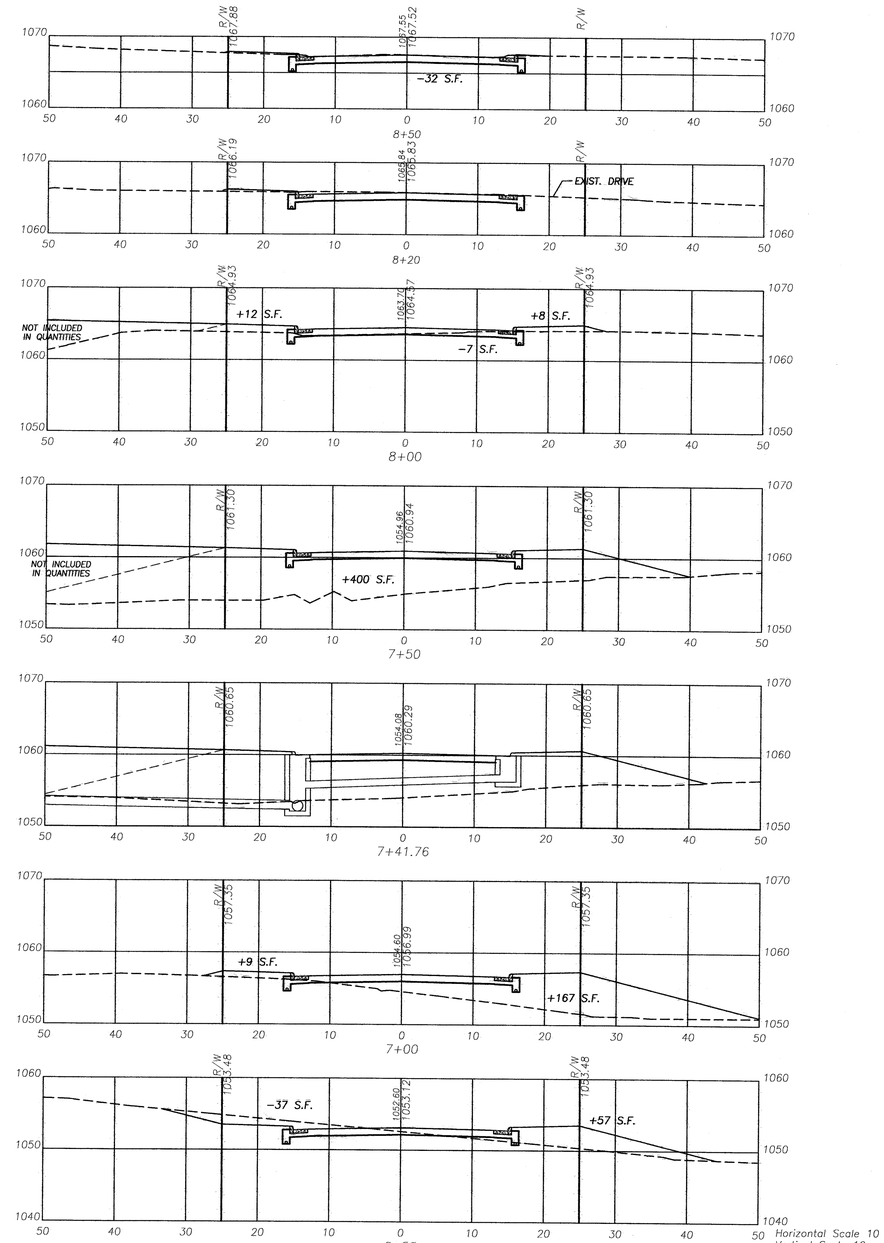

CARLENE AVE.

Civil Design Associates, Inc.
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NEW PHILADELPHIA, OHIO 44663
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CROSS SECTIONS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	1/27/14	DNB	

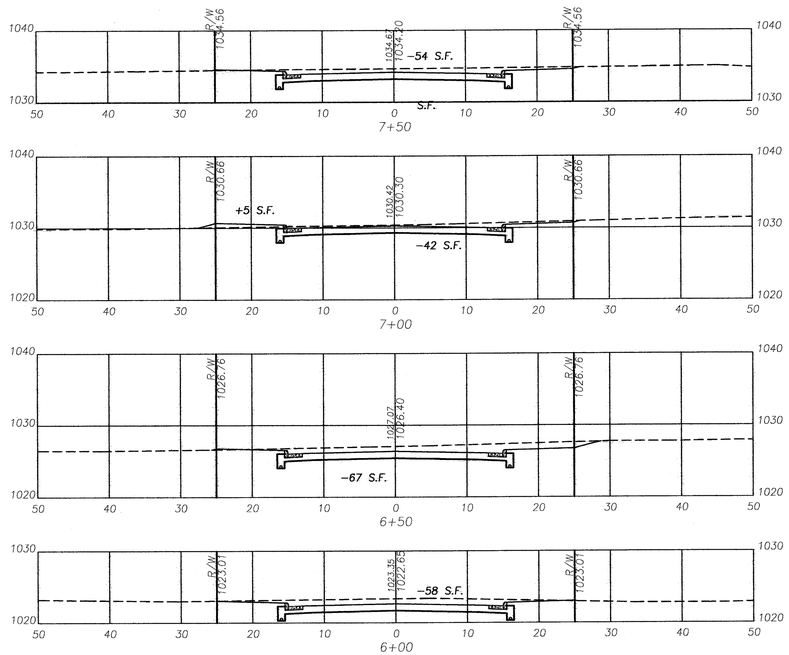
PROJECT No. 1319

SHEET No. X2

DATE: AUGUST, 2013

DRAWN BY: RDA

1319_X-SEC2



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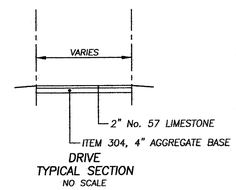
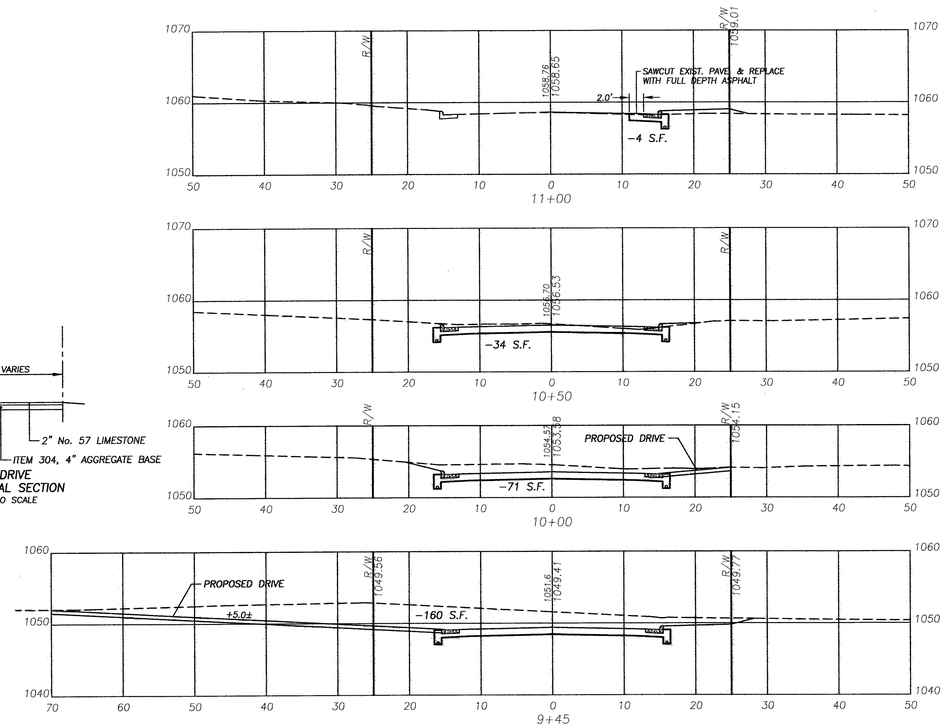
23Rd. STREET





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Vertical Scale 10

23Rd. STREET

Civil Design Associates, Inc.
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1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

CROSS SECTIONS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: STORM SEWER REVISIONS	11/19/13	RDA	
REVISED PER: CITY OF MASSILLON COMMENTS	1/27/14	DNB	

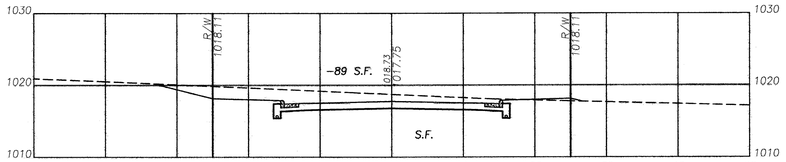
PROJECT No.
1319

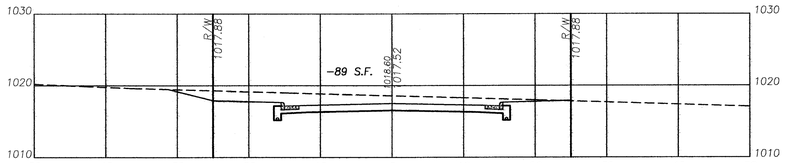
SHEET No.
X3

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_X-SEC3





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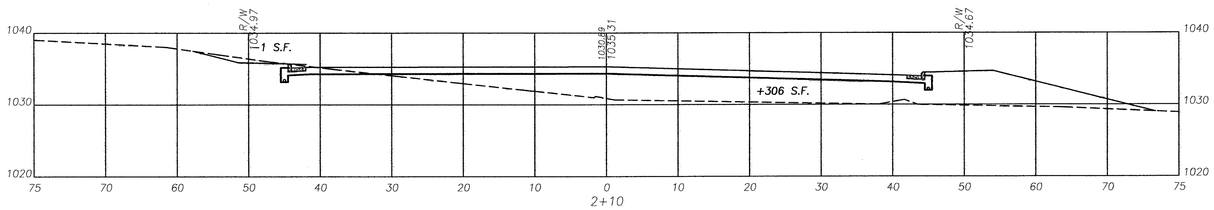

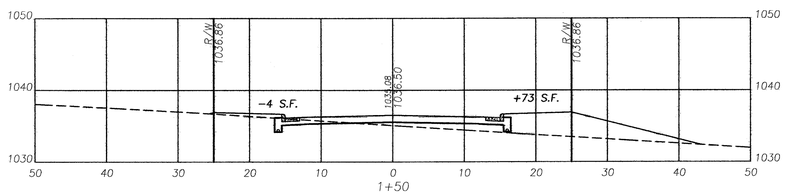

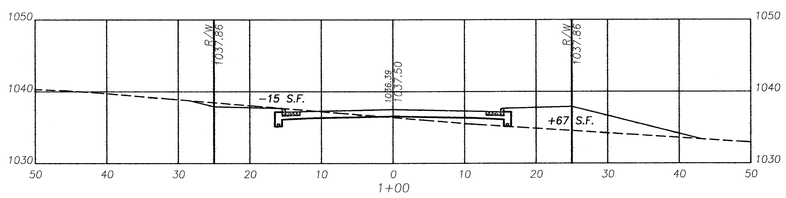

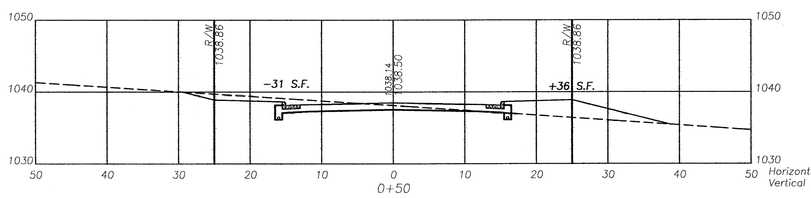

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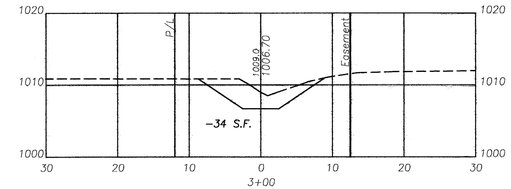

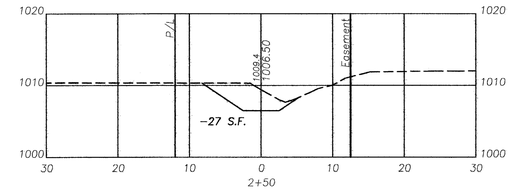

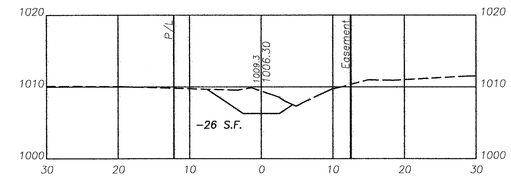

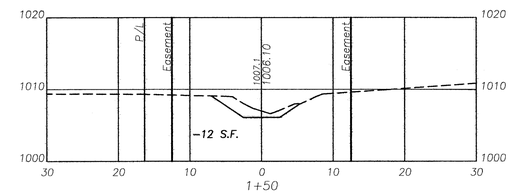

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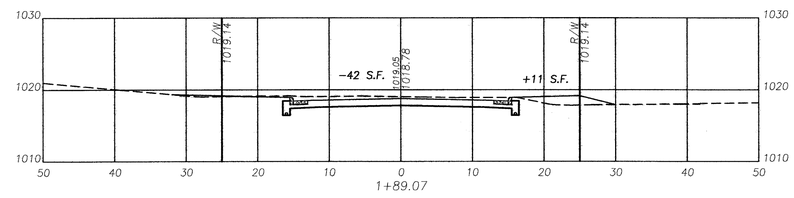

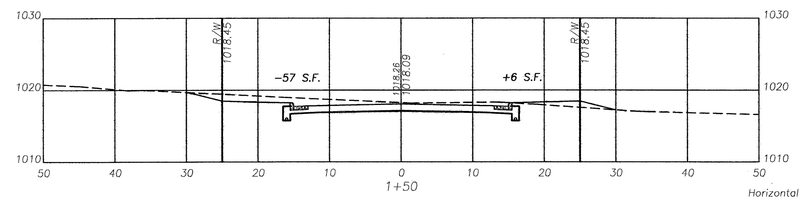

Horizontal Scale 10
Vertical Scale 10

MARGILEE DRIVE

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CROSS SECTIONS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	10/29/13	DNB	

PROJECT No. 1319

SHEET No. X4

DATE: AUGUST, 2013

DRAWN BY: RDA

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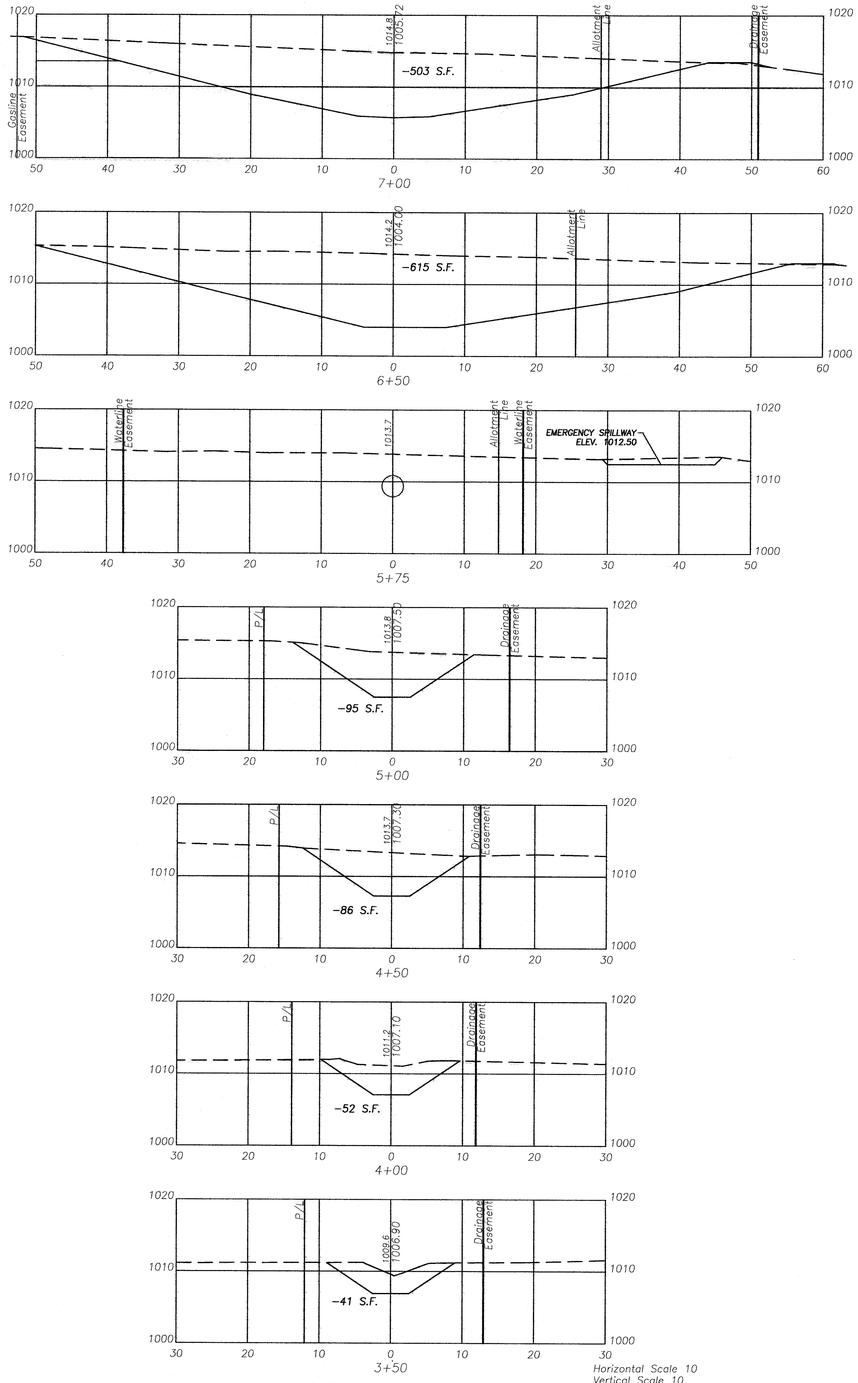

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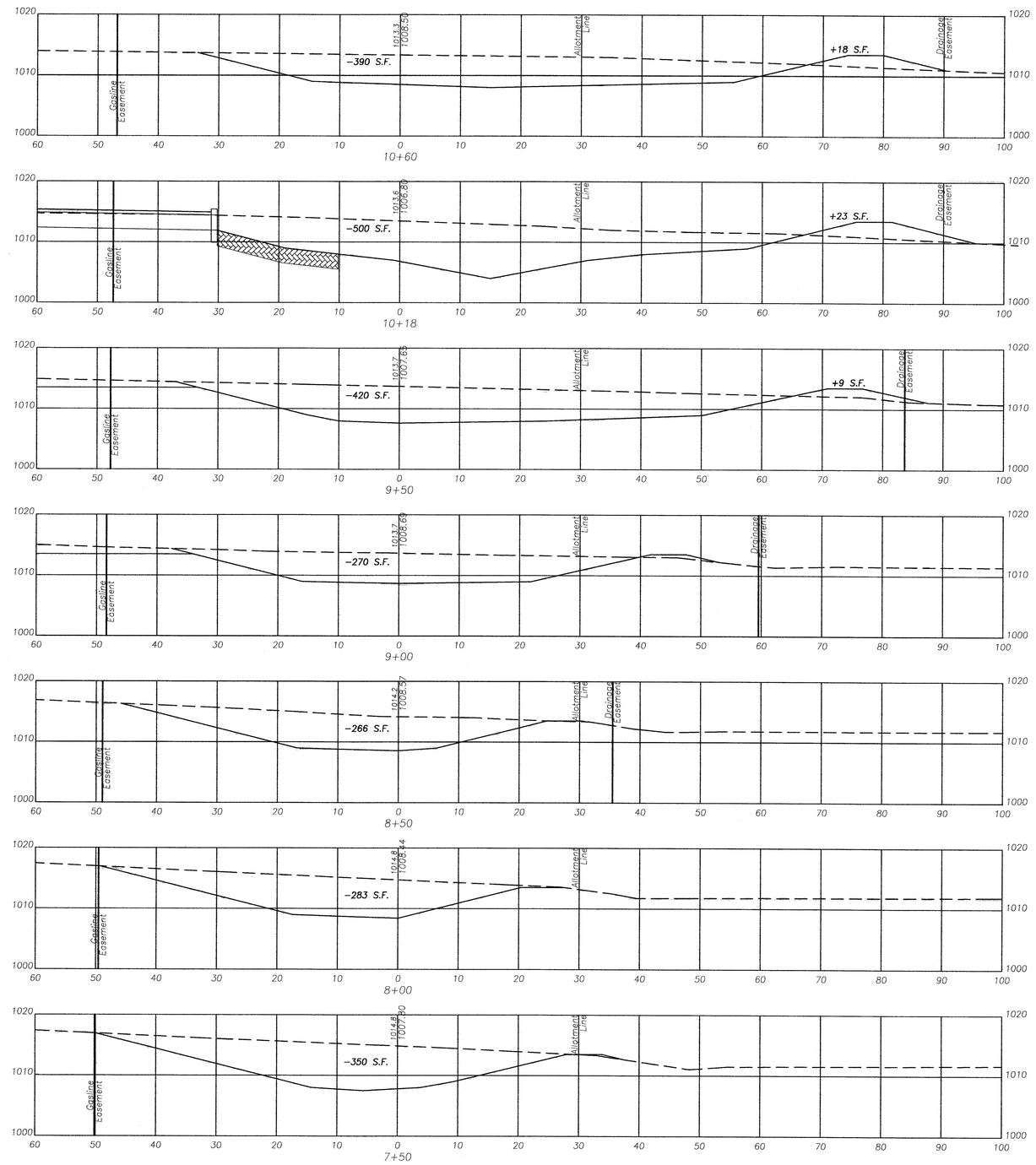

DETENTION BASIN

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
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NEW PHILADELPHIA, OHIO 44663
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CROSS SECTIONS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: STORM SEWER REVISIONS	11/19/13	RDA	
REVISED PER: CITY OF MASSILLON COMMENTS	1/27/14	DNB	

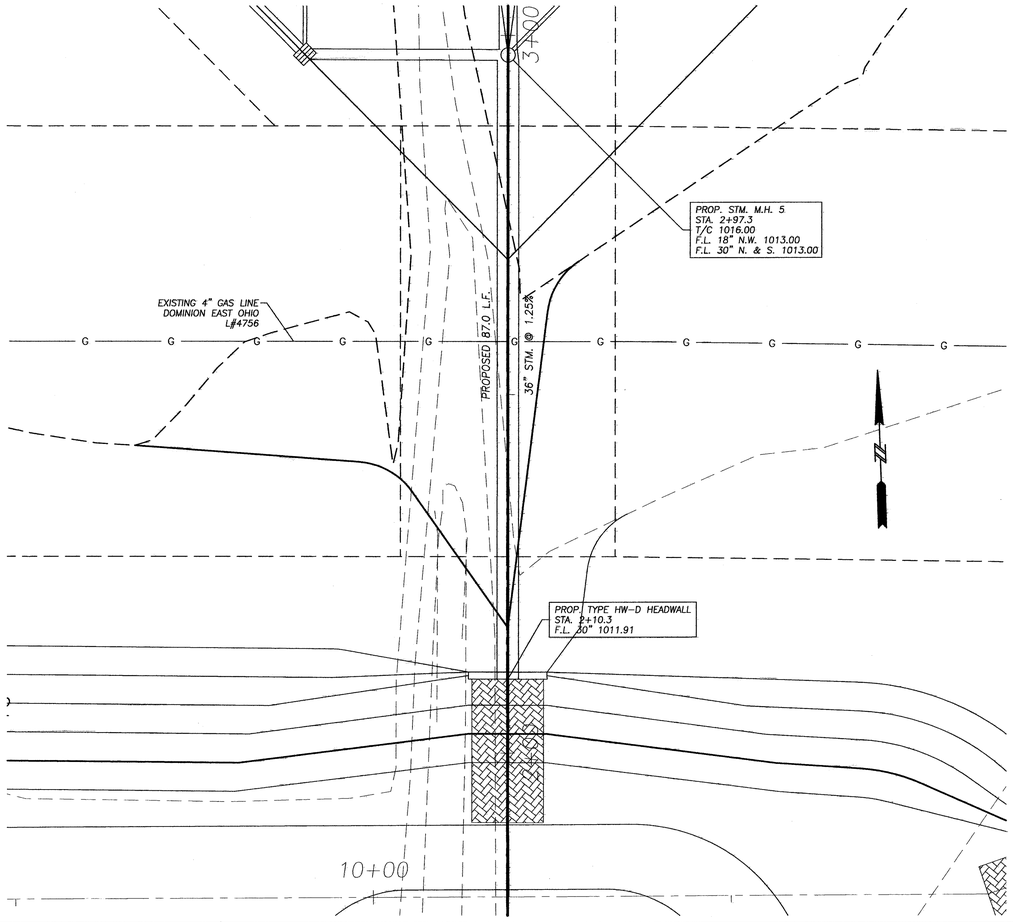
PROJECT No.
1319

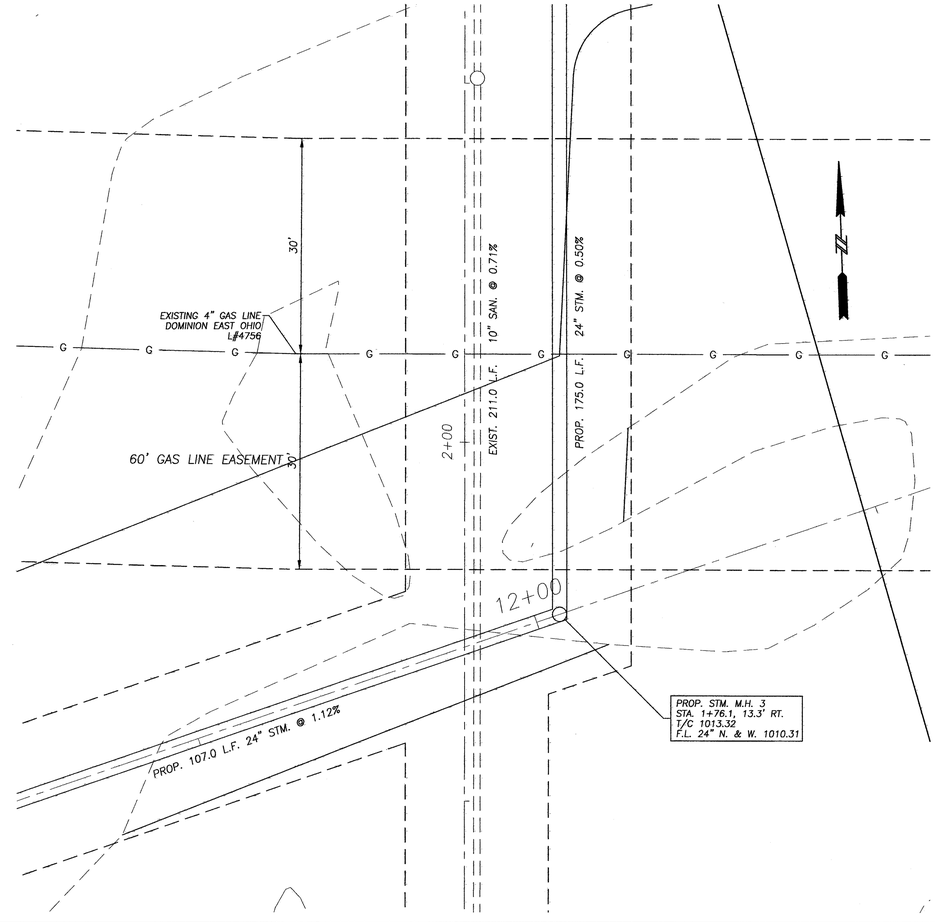
SHEET No.
X5

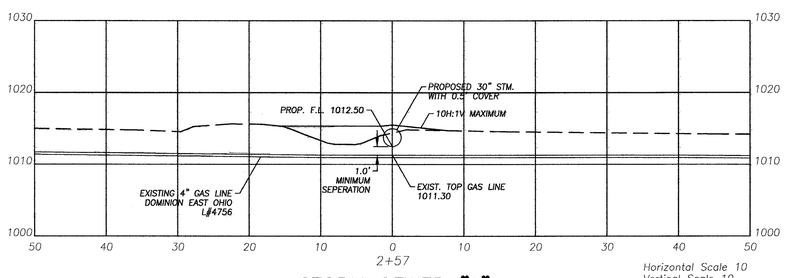
DATE:
AUGUST, 2013

DRAWN BY:
RDA

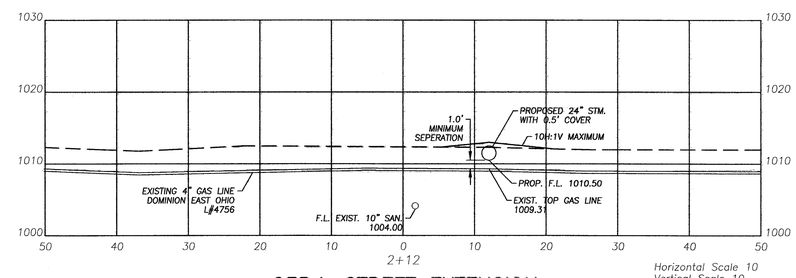
1319_X-SEC4







STORM SEWER "A" GAS LINE CROSSING



23Rd. STREET EXTENSION GAS LINE CROSSING

SCALE 1" = 10' HORIZONTAL
SCALE 1" = 10' VERTICAL

0 10' 20'

SCALE 1" = 10' HORIZONTAL
SCALE 1" = 10' VERTICAL

0 10' 20'

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Consulting Engineers * Surveyors
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(330) 339-4242

PLAN & PROFILE
DETENTION BASIN & GAS LINE CROSSING
COUNTRY VIEW MEADOWS
IN THE CITY OF STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: CITY OF MASSILLON COMMENTS	1/27/14	DNB	

PROJECT No.
1319

SHEET No.
X6

DATE:
NOVEMBER, 2013

DRAWN BY:
RDA

1319_X-SEC-GAS

COUNTRY VIEW MEADOWS SUBDIVISION
STORM WATER POLLUTION PREVENTION PLAN

STARK COUNTY, OHIO

NOTES

THE CONDITION OF THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT SHALL BE MET DURING ALL STAGES OF CONSTRUCTION. THE LOCATION AND TIMING OF ALL EROSION CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS SWPPP SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL THE UPSLOPE DISTURBED AREAS ARE STABILIZED. INSTALLATION OF PERIMETER FILTER FABRIC FENCE AND ROCK CHECKS SHALL BE AS PER CONSTRUCTION AND MATERIAL SPECIFICATIONS 207.03

ALL REASONABLE ATTEMPTS SHALL BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS, ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS.

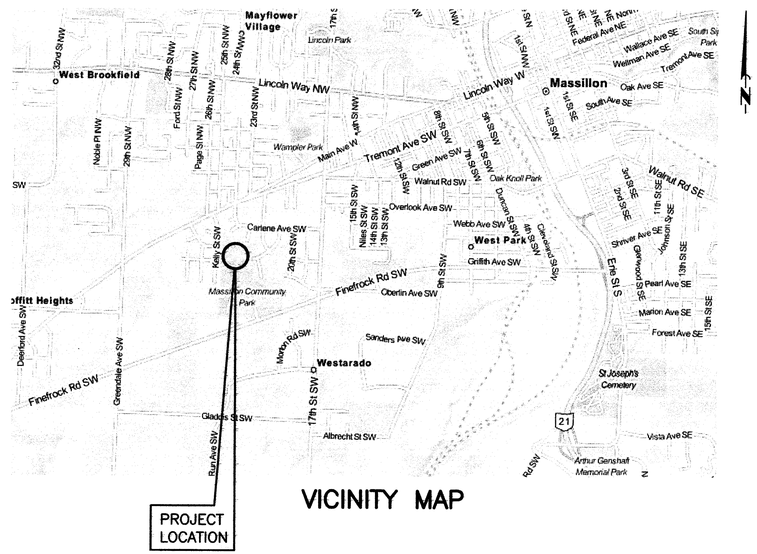
MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS SHALL BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH OHIO EPA GENERAL PERMIT NO. OHC000004 AND ALL STARK COUNTY PERMIT REQUIREMENTS.

MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND STORM WATER.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.

NOTE: BASED ON PROJECT SCHEDULE, PHASING AND WEEKLY INSPECTIONS; ADJUSTMENTS TO THIS PLAN MAY BE NECESSARY ALL PARTIES SHOULD WORK TOGETHER TO STABILIZE THE SITE DURING ALL PHASES OF CONSTRUCTION.



VICINITY MAP

INDEX

TITLE SHEET ____ SWPPP–1

SWP3 PLAN MAP ____ SWPPP–2

SWP3 NOTES & DETAILS ____ SWPPP–3

ACTIVITIES LOG & CONSTRUCTION INSPECTION SCHEDULE ____ SWPPP–4

DETENTION BASIN PLAN & PROFILES W/ DETAILS ____ SWPPP–5 & SWPPP–6

OWNER

MICHAEL PETROS
FAIRCREST PROPERTIES LTD.
5060 NAVARRE ROAD S.W., UNIT 2
CANTON, OHIO 44706

CONTACTS

CIVIL DESIGN ASSOCIATES, INC
1760 BRIGHTWOOD RD SE
NEW PHILADELPHIA, OH 44633
HARRY D. MATTER, P.E., P.S., CFM
330–339–4242

CONTRACTOR

UNKNOWN AT THIS TIME

PROJECT DESCRIPTION

CONSTRUCTION OF STREETS, SANITARY SEWERS, WATERLINES AND A STORM WATER DRAINAGE SYSTEM FOR A NEW 42 LOT SUBDIVISION IN MASSILLON, OHIO. CURRENT LAND USE IS OPEN AREA.

CONSTRUCTION SITE INFORMATION

PROJECT AREA	18.91 ACRES
PROJECT E.D.A.	18.07 ACRES
IMPERVIOUS AREA CREATED	2.26 ACRES (1.25%)
PRE–CONSTRUCTION COEFFICIENT	0.73
POST–CONSTRUCTION COEFFICIENT	0.83

ESTIMATED CONSTRUCTION START DATE – NOVEMBER 1, 2013

ESTIMATED CONSTRUCTION COMPLETE DATE –

SOIL DESCRIPTION

WuB– WOOSTER SILT LOAM, 2 TO 6 PERCENT SLOPES (10%)
WuC– WOOSTER SILT LOAM, 6 TO 12 PERCENT SLOPES (31%)
WrB– WHEELING SILT LOAM, 2 TO 6 PERCENT SLOPES (39%)
Sb– SEBRING SILT LOAM (16%)
Sh– SHOALS SILT LOAM (4%)

RUN–OFF CONSIDERATIONS

THE RUN–OFF COEFFICIENTS WERE DETERMINED BY USING THE TR–55 AND ARE AS FOLLOWS:
PRE–DEVELOPED – CN = 73
POST–DEVELOPED – CN = 83
POST CONSTRUCTION RUN–OFF WILL BE HANDLED BY A DETENTION BASIN.

POST CONSTRUCTION WATER QUALITY WILL BE HANDLED BY ADDING THE VOLUME REQUIRED TO THE DETENTION VOLUME AND RELEASED BY A 2.5" ORIFICE.

CERTIFICATION

ANY PERSON SIGNING DOCUMENTS UNDER THIS SECTION SHALL MAKE THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

STATE OF OHIO
HARRY D. MATTER
E–040167
REGISTERED PROFESSIONAL ENGINEER

Harry D. Matter

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON–MEMBERS
MUST BE CALLED DIRECTLY

CALL BEFORE YOU DIG
Oil & Gas Producers Underground Protection Service
1-800-925-0988
P.O. Box 208, Granville, OH 43023

PREPARED AND RECOMMENDED BY:

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339–4242

Civil Design Associates, Inc.
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SWPPP TITLE SHEET
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS			
DESCRIPTION	DATE	BY	CHK'D

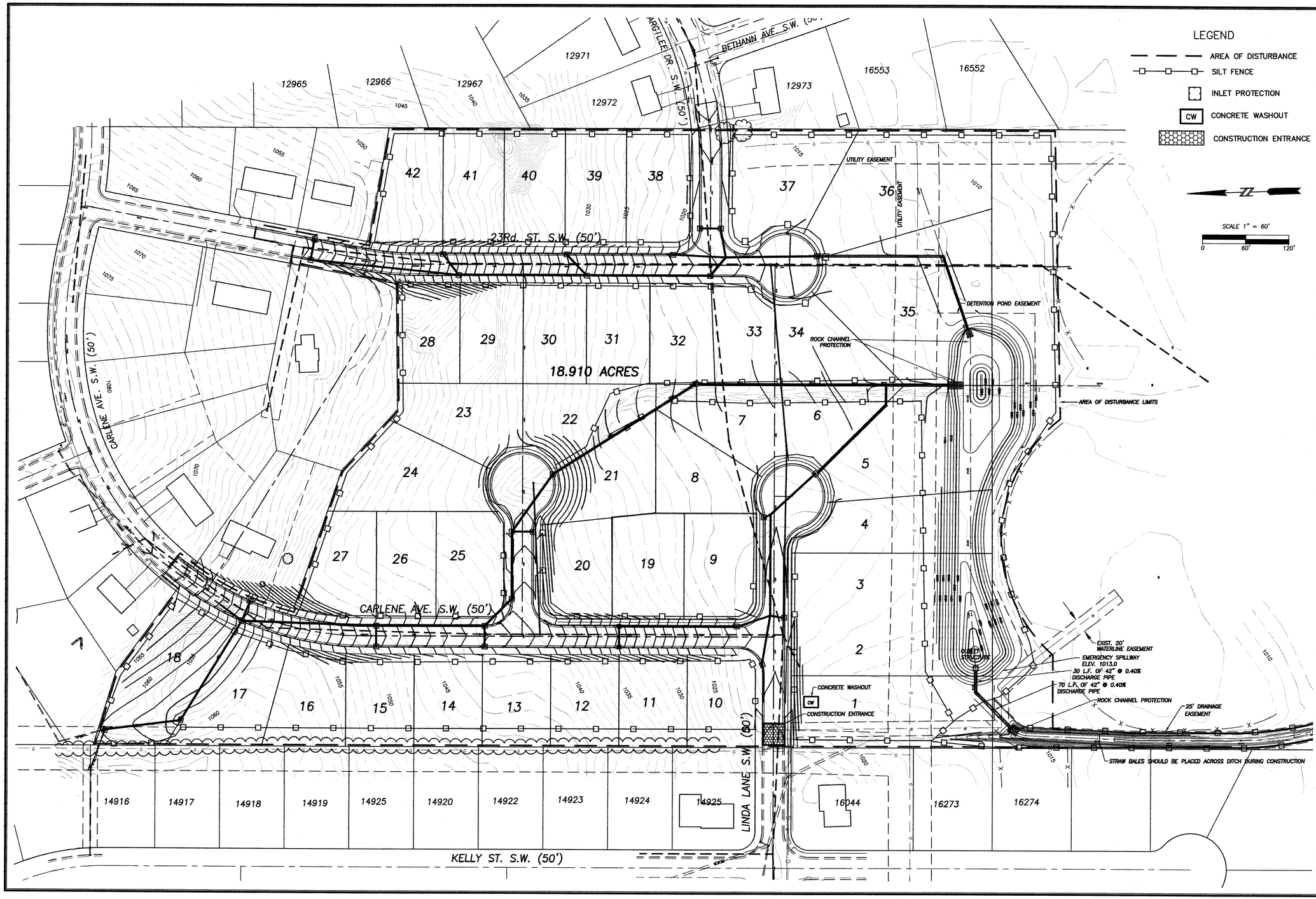
PROJECT No. 1319

SHEET No. SWPPP–1

DATE: JULY, 2013

DRAWN BY: SCP

SWPPP_TITLE



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NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

STORM WATER POLLUTION PLAN
COUNTRY VIEW MEADOWS
LOCATED IN PART OF OUT LOTS 400 AND 499
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER. STARK SOILS COMMENTS	11/18/13	DNB	

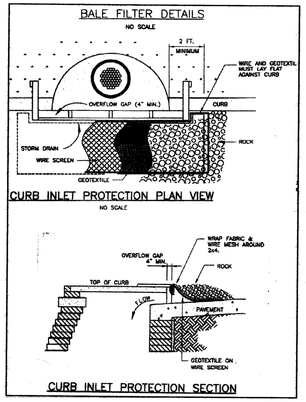
PROJECT No. 1319

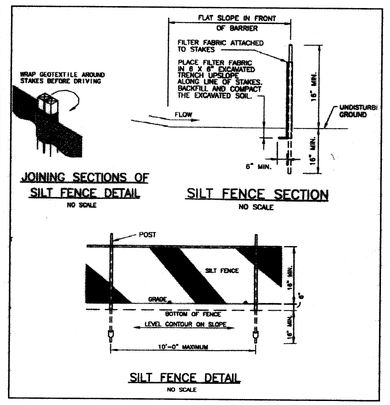
SHEET No. SWPPP-2

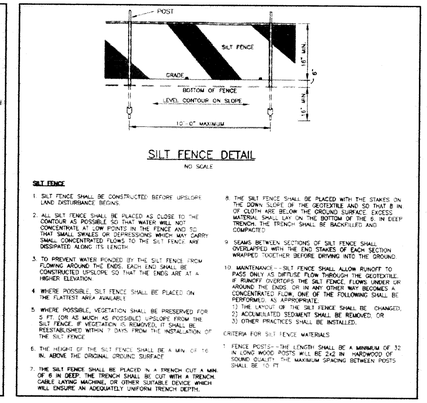
DATE: JULY, 2013

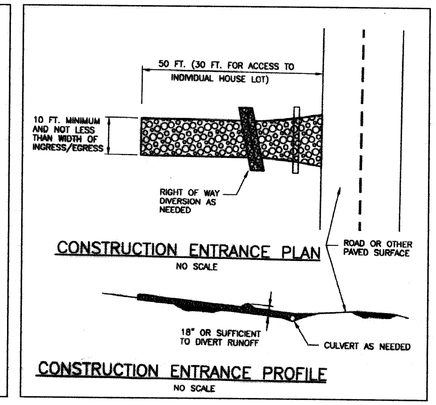
DRAWN BY: SCP

1319_SWP3









EROSION CONTROL NOTES:

1. THE ESC STRUCTURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC STRUCTURES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF ADDITIONALLY, MORE DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.

2. ALL EROSION CONTROL ITEMS SHALL BE INSTALLED BEFORE ANY CLEARING OR CONSTRUCTION BEGINS.

3. PRE-EXISTING VEGETATION SHALL BE RETAINED ON IDLE PORTIONS OF THE LOT FOR AS LONG AS CONSTRUCTION OPERATIONS ALLOW. CLEARING SHALL BE DONE SO ONLY ACTIVE WORKING AREAS ARE BARE. ESPECIALLY CURB STRIP AREAS OUTSIDE OF THE SILT FENCE.

4. TEMPORARY SEED (ANNUAL RYE, OATS, ETC.) AND /OR MULCH SHALL BE APPLIED TO AREAS, SUCH AS STOCKPILES, THAT ARE BARE AND NOT ACTIVELY BEING WORKED. THIS SHALL APPLY TO AREAS THAT WILL NOT BE REWORKED FOR 14 DAYS OR MORE.

5. SILT FENCE SHALL CONTROL SHEET FLOW RUNOFF FROM THE LOT. IT SHALL NOT BE CONSTRUCTED IN CHANNELS OR AREAS OF CONCENTRATED FLOW. OTHER SEDIMENT CONTROLS SUCH AS INLET PROTECTION AND SEDIMENT TRAPS SHALL ALSO BE USED AS NEEDED TO CONTROL SEDIMENT RUNOFF.

6. CONSTRUCTION VEHICLE ACCESS SHALL BE LIMITED TO ONE ROUTE, TO THE GREATEST EXTENT PRACTICAL. THE ACCESS SHALL BE GRAVEL OR CRUSHED ROCK APPLIED TO THE DRIVEWAY AREA (PER DETAIL SHOWN).

7. MUD TRACKED ONTO THE STREET OR SEDIMENT SETTLED AROUND CURB INLET PROTECTION OR ALONG CURB & GUTTER SHALL BE REMOVED DAILY OR AS NEEDED TO PREVENT IT FROM ACCUMULATING. IT SHALL BE REMOVED BY SHOVELING, SCRAPING AND SWEEPING AND SHALL NOT BE WASHED OFF PAVED SURFACES OR INTO STORM DRAINS.

8. SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL FILL AREAS AND AROUND TOPSOIL STOCKPILES WITHIN 7 DAYS OF DISTURBANCE.

9. SILT FENCES ARE TO BE CONSTRUCTED IN FRONT OR AROUND ALL STORM SEWER INLETS, HEADWALLS AND PIPE OUTLETS BEFORE PAVING. STRAW BALES OR INLET PROTECTION SHALL BE PLACED AROUND ALL INLETS AFTER PAVING UNTIL UPLAND AREAS ARE STABILIZED.

10. ALL AREAS AT FINAL GRADE OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR 21 DAYS OR LONGER SHALL BE STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY.

11. OTHER EROSION CONTROL MEASURES MAY BE NECESSARY DUE TO SITE OR ENVIRONMENTAL CONDITIONS.

12. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL UPLAND AREAS ARE STABILIZED.

13. ALL EROSION CONTROL AND SEDIMENT CONTROL PRACTICES SHALL MEET RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION, 2006 EDITION.

CONSTRUCTION SEQUENCE:

(ALL ITEMS ARE TO BE THE RESPONSIBILITY OF THE GENERAL SITE CONTRACTOR)

PRE CONSTRUCTION MEETING:
PRIOR TO START OF CONSTRUCTION A PRE CONSTRUCTION MEETING SHALL BE HELD AS REQUIRED BY CONTROLLING AUTHORITIES.

SITE PREPARATION:

PROVIDE SAFE AND SECURE PEDESTRIAN AND VEHICULAR TRAFFIC CIRCULATION THROUGHOUT THE ENTIRETY OF THE CONSTRUCTION SEQUENCE WITH WELL DEFINED CONSTRUCTION BOUNDARIES TO BE ACCESSED BY CONSTRUCTION PERSONNEL ONLY. ALL EROSION CONTROLS ARE TO BE THOROUGHLY INSPECTED BY THE CONTRACTOR UPON COMPLETION OF EACH WORK DAY AND MAINTAINED THROUGHOUT THE REQUIRED LIFE OF THE CONTROL, AS SPECIFIED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE NPDES PERMIT AND SIGN THE PERMIT TO ACCEPT RESPONSIBILITY AS THE CO-PERMITEE.

INITIAL PHASE (WITHIN 7 DAYS OF START OF GRUBBING):

1. INSTALL A TEMPORARY CONSTRUCTION ENTRANCE FOR ACCESS TO CONSTRUCTION AREAS OF SITE AND A CONCRETE TRUCK WASH OUT AREA.
2. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. STAKEOUT LIMITS OF DISTURBANCE.
4. INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS. REMOVE SILT PROTECTION FROM DESIGNATED INLETS ONLY WHEN INLET STRUCTURE IS TO BE REMOVED AS REQUIRED BY PROGRESSION OF CONSTRUCTION. REFER TO PLANS FOR IDENTIFICATION OF INLET STRUCTURES TO BE REMOVED.
5. INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS.
6. REMOVE EXISTING PAVEMENT.
7. BEGIN EARTHWORK OPERATIONS. THE SEDIMENT BASIN MUST BE INSTALLED PRIOR TO ANY UPSLOPE DISTURBANCE.
8. CONTRACTOR SHALL MODIFY SITE SEDIMENT CONTROL AS GRADE CHANGES THROUGHOUT THE PROCESS AS NECESSARY TO PROVIDE SUITABLE BEST MANAGEMENT PRACTICES.
9. IN THE EVENT OF RAIN, ALLOW STANDING WATER TO SETTLE PRIOR TO PUMPING. UTILIZE THE PUMPING SYSTEMS TO PUMP POLLUTED WATER PER E.P.A. REQUIREMENTS. ALLOW ONLY CLEAN WATER TO BE DISCHARGED TO THE EXISTING DRAINAGE SYSTEM. REMOVE SILT FROM BASINS AS NECESSARY PRIOR TO CONTINUING EARTHWORK. MATERIAL SHOULD BE MECHANICALLY SPREAD AND DRIED PRIOR TO INCORPORATION INTO THE EARTHWORK PROCEDURES. ADEQUACY OF THE DRIED MATERIAL IS TO BE DETERMINED BY A GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDES, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS,CONCRETE WASH WATER, SANITARY WASTES, ETC.. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHALL BE PLANNED AND IMPLEMENTED FOR HOUSE KEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

INTERIM PHASE GENERAL CONSTRUCTION:

1. MAINTAIN TEMPORARY CONTROL UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK.
2. BEGIN EARTHMOVING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE COUNTY CONSERVATION DISTRICT OF LOCATION AND EROSION AND SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BARROW OR SPOIL SITE OF IMPORT/ EXPORT MATERIAL. THE CONTRACTOR IS TO COORDINATE WITH OWNER THE PLACEMENT OF SUCH MEASURES.
3. STORM SEWER, DETENTION POND, SANITARY SEWER, WATER LINE AND UTILITY LINE CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF GRADE AND WITH THE PERMISSION OFTHE LOCAL AUTHORITY.
4. BEGIN CONSTRUCTION OF ROADWAYS.
5. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY MEANS OF GRAVEL BACKFILL TO SURFACE, REPAVING OR MULCHING.
6. REPLACE TOPSOIL, FINE GRADE AND SEED AS REQUIRED.
7. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
8. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 70% COVERAGE IS ACHIEVED.
9. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

FINAL PHASE POST CONSTRUCTION
BASIN CONVERSION:

1. IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.
2. THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR, IN ORDER, ONCE THE SITE HAS BEEN DEEMED STABLE:
   A. REMOVE TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO COMPLETION OF PAVING.
   B. SITE CLEAN UP.
   C. RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED.
   D. FILTER FENCES ARE TO BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.
   E. VERIFY POSITIVE CONVEYANCE FLOW IN ALL DRAINAGE STRUCTURES.

TABLE 1. PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY ERSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A WATER OF THE STATE & AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TABLE 2. TEMPORARY STABILIZATION

ANY DISTURBED AREAS WITHIN 50 FEET OF A WATER OF THE STATE & NOT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 21 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS SHALL BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S)
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

TABLE 3. SILT FENCE

MAXIMUM DRAINAGE AREA (IN ACRES) TO 100 LINEAR FEET OF SILT FENCE	RANGE OF SLOPE FOR A PARTICULAR DRAINAGE AREA (IN PERCENT)
0.5	< 2%
0.25	> 2% BUT < 20%
0.125	> 20% BUT < 50%

STATE OF OHIO
HARRY D. MATTER
E-040167
REGISTERED
PROFESSIONAL ENGINEER

Harry D. Matter

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

SWPPP NOTES & DETAILS
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

	DESCRIPTION	DATE	BY	CHKD
	REVISED INITIAL PHASE NOTES	9/24/13	DNB	

PROJECT No. 1319
SHEET No. SWPPP-3
DATE: JULY, 2013
DRAWN BY: SCP
SWPPP_NOTES

GRADING AND STABILIZATION ACTIVITIES LOG

DATE GRADING ACTIVITY INITIATED	*DESCRIPTION OF GRADING ACTIVITY*	*DESCRIPTION OF STABILIZATION MEASURE AND LOCATION*	*DATE GRADING ACTIVITY CEASED*	*DATE WHEN STABILIZATION MEASURES INITIATED*

POST–CONSTRUCTION OPERATION AND MAINTENANCE PLAN

THE FOLLOWING ARE THE POST–CONSTRUCTION BEST MANAGEMENT PRACTICES THAT ARE TO BE USED AT THIS CONSTRUCTION SITE AFTER ALL CONSTRUCTION IS COMPLETE:

1. DETENTION BASIN
2. PERMANENT EROSION CONTROL, SEEDING, AND PLANTING
3. MULCHING TO PROTECT AREAS PLANTED AND SEEDED WITH EROSION CONTROL

THE POST–CONSTRUCTION BMP'S THAT ARE DESCRIBED ABOVE WILL BE FUNDED AND MAINTAINED AS FOLLOWS:

THE RESPONSIBLE PARTY FOR THE POST–CONSTRUCTION BEST MANAGEMENT PRACTICES IS:

MICHAEL PETROS
FAIRCREST PROPERTIES LTD.
5060 NAVARRE ROAD S.W., UNIT 2
CANTON, OHIO 44706

INSPECTION SCHEDULE

PRACTICE ITEM	FREQUENCY	
GENERAL INSPECTION	EVERY 6 MONTHS	
SWALES	MONTHLY	
VEGETATION	MONTHLY	FOR THE FIRST 2 GROWING SEASONS, THEN TWO TIMES A YEAR
SILT FENCE	MONTHLY	FOR THE FIRST GROWING SEASON
SEDIMENT POND	WEEKLY PLUS RAIN EVENTS	
DETENTION POND	EVERY 6 MONTHS PLUS RAIN EVENTS	

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDE WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN.

ALL CONTROL PRACTICES THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN 3 DAYS OF THE INSPECTION.

STATE OF OHIO
HARRY D. MATTER
E-040187
REGISTERED
PROFESSIONAL ENGINEER

Harry D. Matter

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(330) 339-4242

ACTIVITY LOG & CONSTRUCTION INSPECTION SCHEDULE
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS			
DESCRIPTION	DATE	BY	CHKD

PROJECT No. 1319
SHEET No. SWPPP–4
DATE: JULY, 2013
DRAWN BY: SCP
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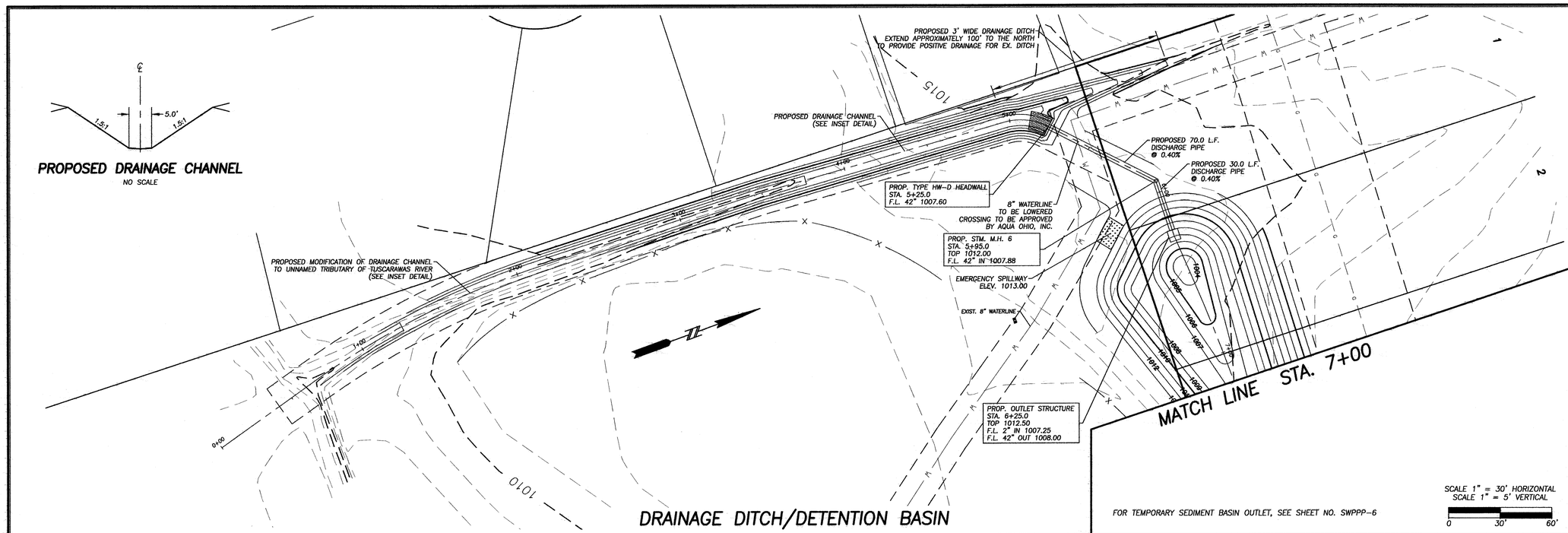
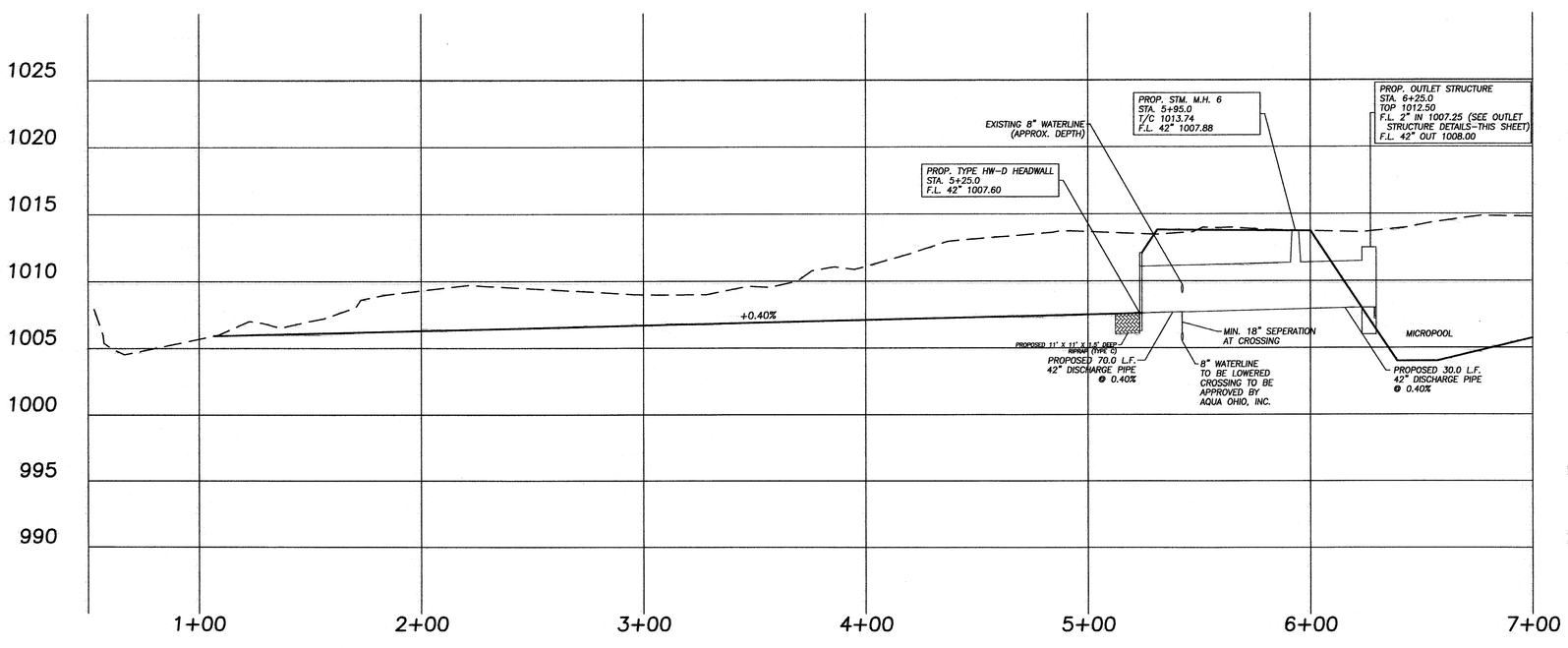


DRAINAGE DITCH/DETENTION BASIN

FOR TEMPORARY SEDIMENT BASIN OUTLET, SEE SHEET NO. SWPPP-6



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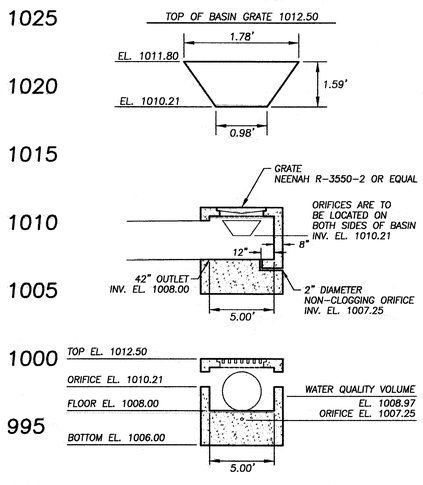


DETENTION BASIN OUTLET STRUCTURE
NO SCALE

Civil Design Associates, Inc.
Consulting Engineers * Surveyors
1760 BRIGHTWOOD ROAD S.E.
NEW PHILADELPHIA, OHIO 44663
(330) 343-4242

SWPP PLAN & PROFILE
DRAINAGE DITCH/DETENTION BASIN
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: STARK SOIL COMMENTS	9/24/13	DNB	RDA
REVISED PER: STARK SOIL COMMENTS	11/18/13	DNB	RDA
REVISED PER: CITY OF MASSILLON COMMENTS	1/21/14	DNB	RDA

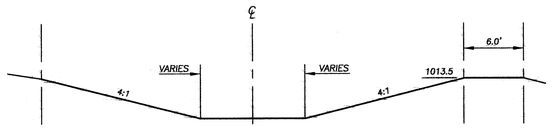
PROJECT No.
1319

SHEET No.
SWPPP-5

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_SWPP P&P



DETENTION BASIN TYPICAL SECTION

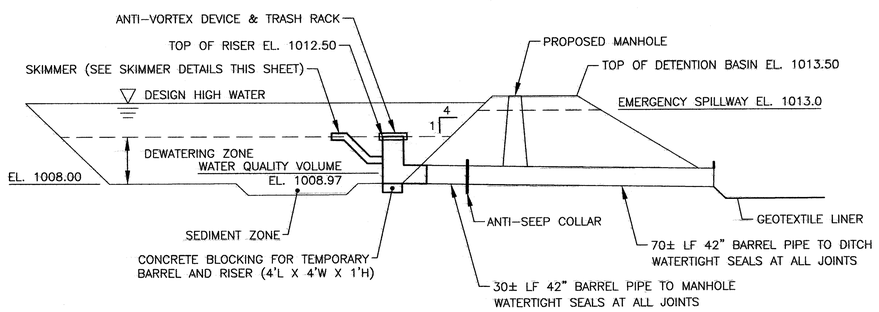
NO SCALE

DEWATERING ZONE VOLUME:
67 C.Y./Ac X 25.64 Ac = 1,710 C.Y.

SEDIMENT ZONE VOLUME:
37 C.Y./Ac X 25.64 Ac = 950 C.Y.

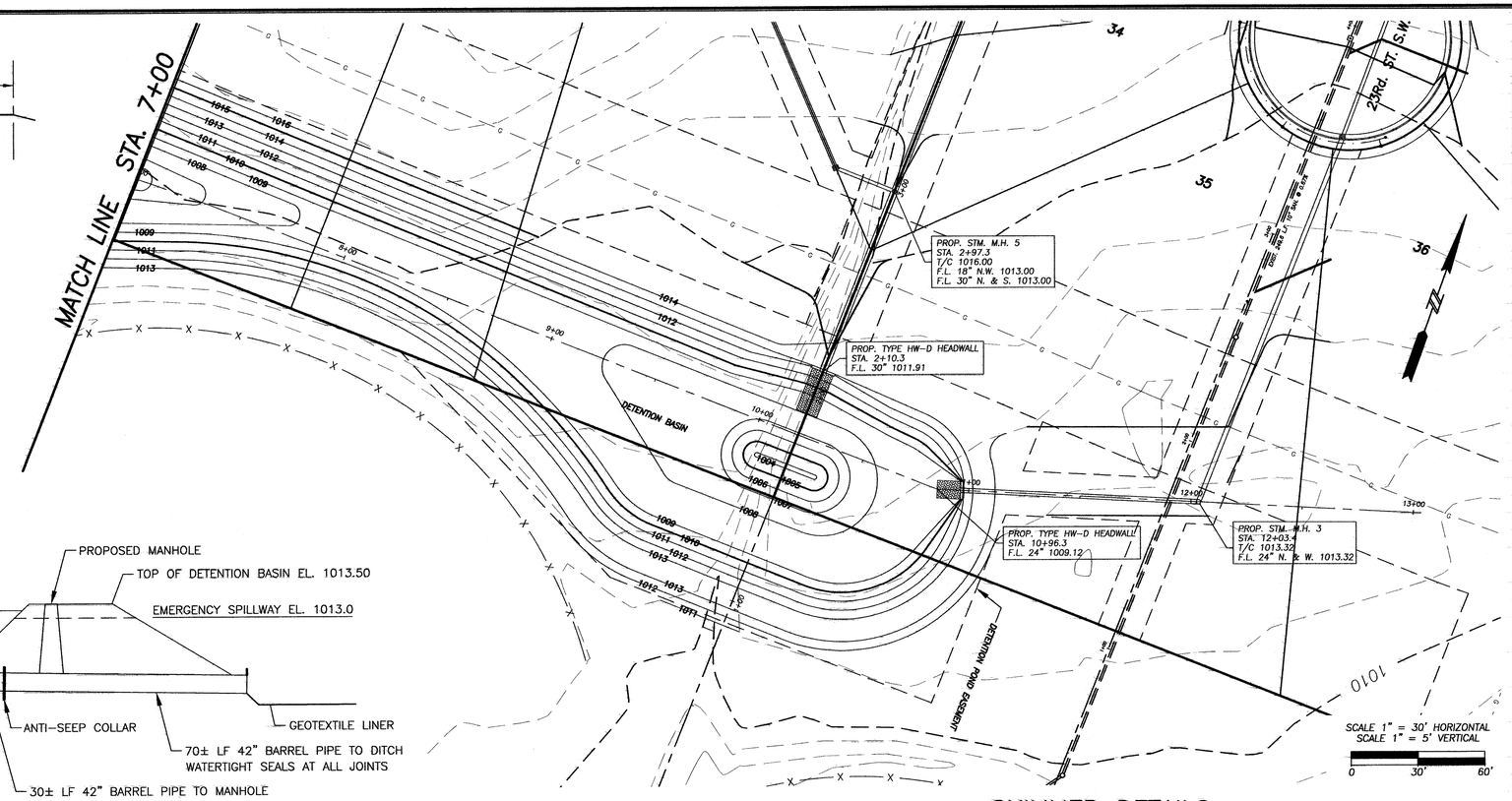
10 YR. Q = 65 CFS

TEMPORARY 42" BARREL AND 60" RISER PIPE.
REMOVE UPON UPLAND STABILIZATION AND
CONSTRUCT/CONNECT FINAL OUTLET STRUCTURE.

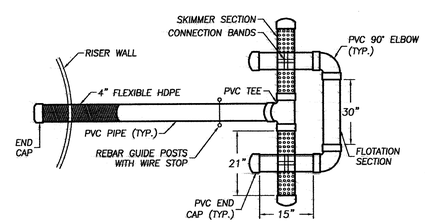


TEMPORARY SEDIMENT BASIN OUTLET

SCALE: NONE



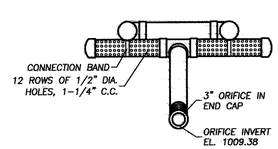
SKIMMER DETAILS



PLAN VIEW

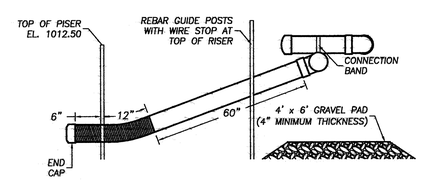
SCALE: NONE

NOTES:
1. ALL P.V.C. PIPES ARE TO BE 4" I.D., SCHEDULE 40.
2. ALL CONNECTIONS ON THE SKIMMER ARE TO BE WATER-TIGHT CONNECTIONS.
3. THE 4" FLEXIBLE HDPE IS TO BE ATTACHED TO THE RISER AND SKIMMER WITH WATER-TIGHT CONNECTIONS.



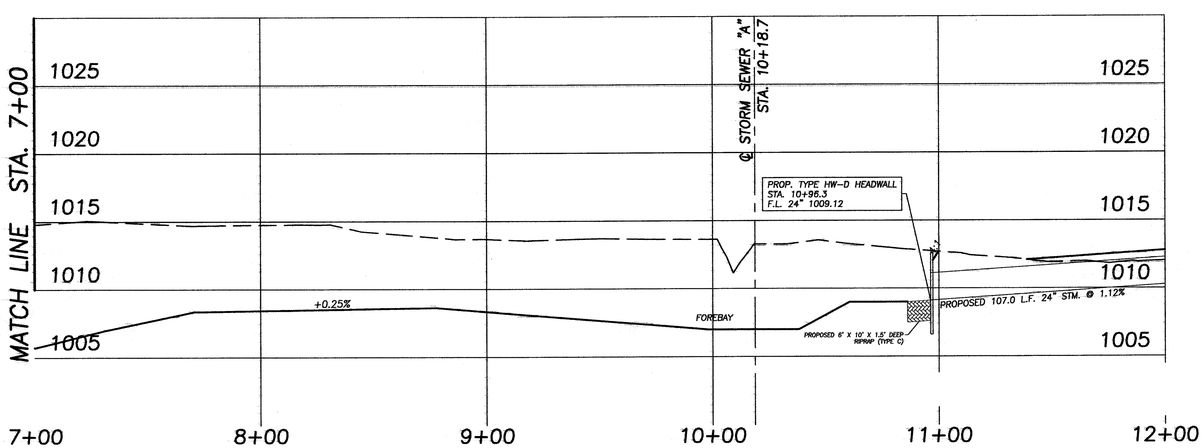
FRONT VIEW

SCALE: NONE



SIDE VIEW

SCALE: NONE



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NEW PHILADELPHIA, OHIO 44663
(330) 339-4242

SWPP PLAN & PROFILE
DETENTION BASIN
COUNTRY VIEW MEADOWS
IN THE CITY OF MASSILLON
STARK COUNTY, OHIO

REVISIONS

DESCRIPTION	DATE	BY	CHKD
REVISED PER: STARK SOILS COMMENTS	9/24/13	DNB	
REVISED PER: STARK SOILS COMMENTS	11/18/13	DNB	
REVISED PER: CITY OF MASSILLON COMMENTS	1/21/14	DNB	

PROJECT No.
1319

SHEET No.
SWPPP-6

DATE:
AUGUST, 2013

DRAWN BY:
RDA

1319_SWPP P&P