

APPROVED BY THE CITY OF MASSILLON ENGINEER
THIS 1st DAY OF July, 2004.

John D. H.
CITY OF MASSILLON ENGINEER

AQUA OHIO, INC.
THIS 2ND DAY OF JULY, 2004.
SUBJECT TO AGREEMENT WITH AQUA OHIO, INC.

Donald Snyder
AQUA OHIO, INC.

SANITARY SEWER PERMIT-TO-INSTALL HAS BEEN RECEIVED FROM THE OHIO EPA
THIS 16 DAY OF AUGUST, 2004.

WATERLINE PERMIT-TO-INSTALL HAS BEEN RECEIVED FROM THE OHIO EPA
THIS 17 DAY OF AUGUST, 2004.

PROJECT INFORMATION

- 1.) SANITARY EFFLUENT FROM THIS PROJECT DISCHARGES TO CITY OF MASSILLON.
- 2.) NUMBER OF LOTS = 15
- 3.) AREA (NOT INCL. TRACT 'A')= 7.955 AC.

LEGEND OF SYMBOLS AND ABBREVIATIONS

The diagram illustrates standard symbols for various boundary and utility lines. It consists of two columns: the left column shows graphical symbols and line styles, while the right column provides their corresponding names. The symbols include:

- PROPERTY LINE:** A line with a small 'P' inside a circle.
- CENTERLINE:** A line with a small 'C' inside a circle.
- EXIST. RIGHT-OF-WAY:** A line with the text 'EX. R/W' above it.
- PROP. RIGHT-OF-WAY:** A line with the text 'R/W' above it.
- QUARTER SECTION LINE:** A simple horizontal line.
- SECTION LINE:** A simple horizontal line.
- CORPORATION LINE:** A line with diagonal hatching above it.
- EXIST. SANITARY SEWER:** A line with a circle containing a cross, labeled 'EXIST. SAN. M.H.'.
- PROP. SANITARY SEWER:** A line with a solid black circle, labeled 'PROP. SAN. M.H.'.
- EXIST. STORM SEWER:** A line with an open square, labeled 'EXIST. C.B.'.
- PROP. STORM SEWER:** A line with a solid black rectangle, labeled 'PROP. C.B.'.

 The diagram also shows how these lines are labeled with 'SAN' (sanitary sewer) or 'STM' (storm sewer) and how they are identified by manhole (M.H.) or catch basin (C.B.) types.

ENGINEERS ESTIMATE			
TOTAL L.F. ROADWAY	-----	953.21	L.F.
TOTAL L.F. SANITARY SEWER	-----	597*	L.F.
TOTAL L.F. STORM SEWER	-----	1,447**	L.F.

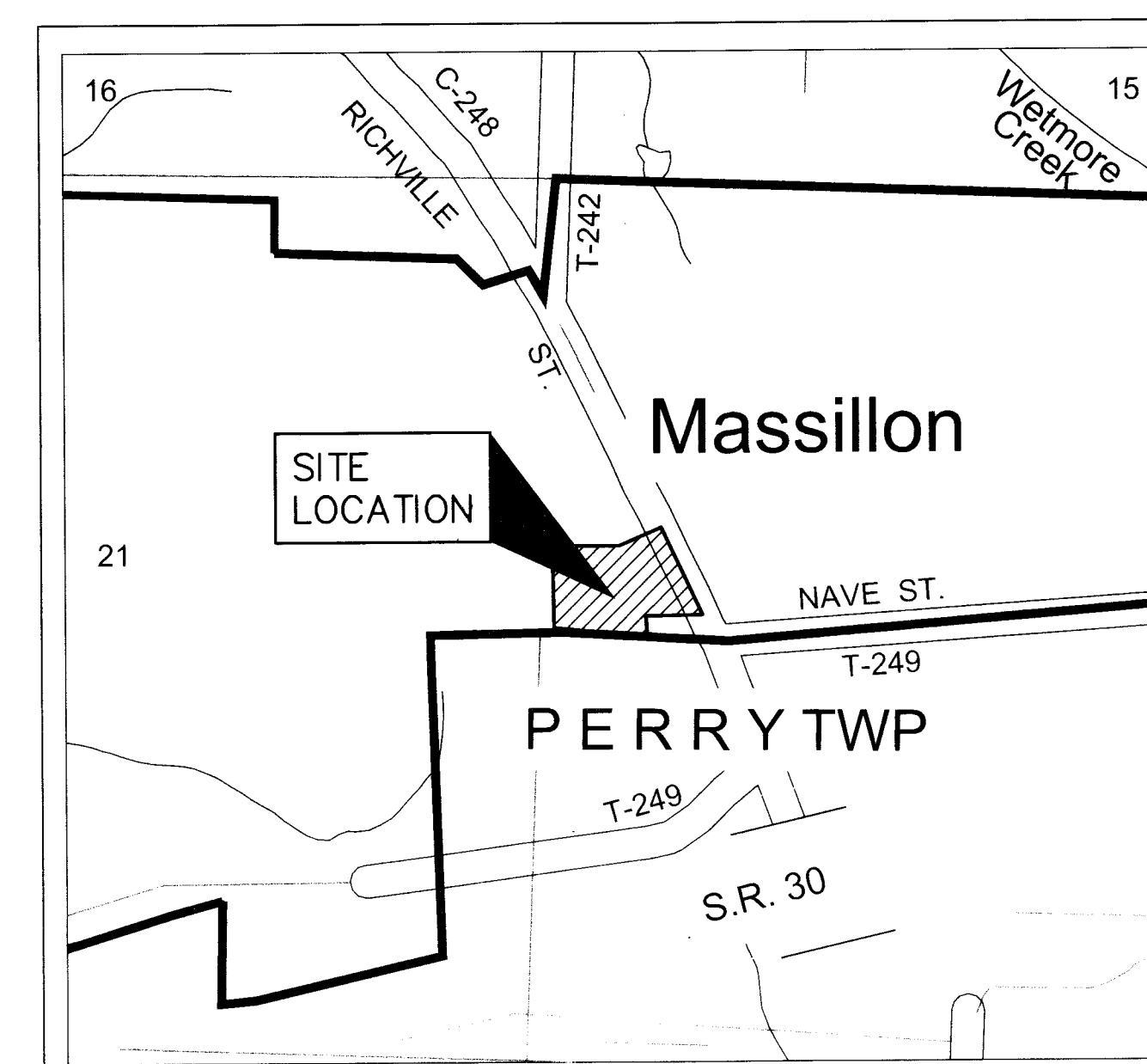
* NOT INCLUDING 633 L.F. SERVICE CONNECTIONS
** NOT INCLUDING 600 L.F. DOWNSPOUT HEADERS

I HEREBY CERTIFY THAT THESE IMPROVEMENTS HAVE BEEN COMPLETED, AS INDICATED BY THE "AS-BUILT" DIMENSIONS SHOWN ON THESE PLANS.

THIS _____ DAY OF _____, 20____.

BRYAN J. ASHMAN
REGISTERED ENGINEER No. E-043804

OWNER AND DEVELOPER
P.R.M.D.C., LTD., A LIMITED PARTNERSHIP
7694 STRAUSSER ST. N.W.
NORTH CANTON, OHIO 44720
C/O FRED TOBIN
PHONE: (330) 497-9744



LOCATION MAP

LATITUDE 40° 46' LONGITUDE 81° 29'

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REFERENCED STANDARD CONSTRUCTION DRAWINGS PRIOR TO BIDDING AND CONSTRUCTION.

[illegible]

CITY OF MASSILLON		O. D. O. T.		AQUA OHIO, INC.
TRENCH DETAIL		M. H. No. 3		TYPICAL BLOWOFF DETAIL
		CATCH BASIN 2-2B		LONG SERVICE LINE TAP
				SHORT SERVICE LINE TAP
				CONCRETE THRUST BLOCK DETAIL
				TYP. FIRE HYDRANT ASSY. TYPE I

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REVISIONS					
A					
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Mosaition Eng.	C.H.B.	06/16/04			

JEROLD E. GEIB

COOPER & ASSOCIATES, LLP
ENGINEERS AND SURVEYORS

PHONE (330) 452-5731
FAX No.(330) 452-9110



WITTENBERG COMMONS
(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.

DRAWN BY: C.H.B.
CHECKED BY: B.J.A.
FIELD BOOK No. _____
DATE 3/31/04
SHEET 1 OF 10
PROJ.# 03330

TITLE SHEET PROJ.# 03330

99 50 05

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H:\Land Projects R2\03330\dwg\UV-9.dwg 6/18/2004 7:21:08 AM CDT

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.) CONTRACTOR SHALL PAY CITY OF MASSILLON AT THE RATE OF TIME AND ONE–HALF OF REGULAR RATE AFTER 4:30 P.M. MONDAY THROUGH FRIDAY. SATURDAYS ALL DAY AT TIME AND ONE–HALF.
- 7.) ALL MATERIALS USED WILL BE NEW – NO SALVAGED MATERIAL WILL BE ACCEPTED EXCEPT CASINGS, AS APPROVED.
- 8.) IF CONTRACTOR EXCAVATES DEEPER THAN NECESSARY FOR CURB AND GUTTER, CONTRACTOR WILL FURNISH ODOT 304 AGGREGATE AND TAMP BEFORE CURB AND GUTTER IS CONSTRUCTED.
- 9.) 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 COMPACTIOIN TO BE DONE BEFORE FORMS ARE PLACED.
- 10.) ALL EXTRA PAY ITEMS WILL HAVE THE APPROVAL OF THE BOARD OF CONTROL BEFORE EXTRA ITEMS ARE INSTALLED.
- 11.) CONTRACTOR TO BACKFILL CURB IMMEDIATELY AFTER CURB HAS BEEN IN PLACE FOR 48 HOURS.
- 12.) CONTRACTOR WILL NOTIFY ENGINEER WHEN HE IS IN NEED OF CONSTRUCTION STAKES AND THIS OFFICE WILL COMPLY WITHIN A PERIOD OF 48 HOURS.
- 13.) 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 CONCRETE PIPE (ODOT 706.02) AND SHALL BE TYPE 'C' CONDUIT IN ACCORDANCE WITH ODOT 603 WITH CLASS 'C' BEDDING AND SUITABLE SOIL BACKFILL.
- 14.) 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.
- 15.) CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE ANY WORK IS BEGUN. THE CITY OF MASSILLON IS NOT RESPONSIBLE FOR ANY LOST TIME DUE TO UTILITY RELOCATION.
- 16.) MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH MASSILLON CITY STANDARDS.
- 17.) 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.
- 18.) 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.
- 19.) 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.
- 20a.) 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.
- 20b.) 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.
- 20c.) 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.

SANITARY SEWER NOTES

- 1.) SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF MASSILLON ENGINEERING DEPARTMENT 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.) 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 ENGINEERING DEPARTMENT AT THE PRE–CONSTRUCTION MEETING.
- 6.) ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISHED GRADE SHALL BE COMPLETED WITHIN THE RIGHT–OF–WAY AND EASEMENTS PRIOR TO SANITARY SEWER CONSTRUCTION.
- 7.) 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.
- 8.) MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.
- 9.) SANITARY SEWER SERVICE LATERALS SHALL BE 6–INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0% GRADE.
- 10.) FOR NEW SUBDIVISION CONSTRUCTION, SEWER SERVICE LATERALS SHALL EXTEND 12' INTO THE LOTS OR BEYOND FURTHEST UTILITY, WHICHEVER IS GREATER, 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.
- 11.) 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.
- 12.) MINIMUM COVER OVER SANITARY SEWER SHALL BE 4 FT.
- 13.) ACCEPTABLE SANITARY SEWER PIPE MATERIALS ARE AS FOLLOWS:

MATERIAL DESCRIPTION	SPECIFICATIONS		
	PIPE	JOINT	INSTALLATION
PVC SMOOTH EXTERIOR:	ASTM D–3034	ASTM D–3212	ASTM D–2321
PVC:			
CLOSED PROFILE (DUAL WALL)	ASTM F–794	ASTM D–3212	ASTM D–2321
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
DDIP (CLASS 52)	AWWA C–151	AWWA C–110/C–111	AWWA C–151
ABS COMPOSITE	ASTM D–2680	ASTM D–2235	ASTM D–2680
PVC COMPOSITE	ASTM D–2680	ASTM D–2564	ASTM D–2680

- 14.) ALL SANITARY SEWERS, 8–INCH 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 ENGINEERING DEPARTMENT SPECIFICATIONS.
- 15.) 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 ENGINEERING DEPARTMENT SPECIFICATIONS. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE (5%) PERCENT. TESTING SHALL BE IN ACCORDANCE WITH ASTM D–3034.
- 16.) ALL SANITARY SEWERS MUST PASS A LOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM F–1417 (PLASTIC PIPE) OR ASTM C–828 (CLAY PIPE). THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL/INCH OF DIAMETER/MILE/DAY.
- 17.) 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.
- 18.) CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.
- 19.) ANY MANHOLE DROP ATTACHMENTS SHALL BE "OUTSIDE" TYPE.
- 20.) MANHOLE TOP OF CASTING ELEVATIONS MAY REQUIRE ADJUSTMENT DURING SITE GRADING. 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 ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS.
- 21.) 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 ENGINEERING DEPARTMENT AND ALL APPLICABLE O.D.O.T. SPECIFICATIONS.
- 22.) AS–BUILT DRAWINGS ARE REQUIRED AND SHALL BE SUBMITTED TO THE CITY ENGINEER UPON COMPLETION OF THE PROJECT.

WATERLINE NOTES

- 1.) 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.
- 2.) 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.
- 3.) THE CONTRACTOR SHALL CAREFULLY LAYOUT THE WATER LINE AND ALL RELATED FACILITIES TO INSURE THAT THEY ARE LOCATED WITHIN THE PUBLIC RIGHT–OF–WAY AND/OR DESIGNATED UTILITY EASEMENTS AS INDICATED.
- 4.) MEGALUG RETAINERS REQUIRED AT ALL FITTINGS.
- 5.) THE PROPOSED FACILITIES WILL MAINTAIN A MINIMUM PRESSURE OF 35 P.S.I. DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- 6.) BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. AQUA OHIO, INC. MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES AND HIGHER.
- 7.) 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 PROPERLY COMPACTED O.D.O.T. 304 AGGREGATE OR AS SPECIFIED BY THE LOCAL JURISDICTION.
- 8.) WATER SERVICES SHALL EXTEND 12' INTO THE LOTS OR BEYOND FURTHEST UTILITY, WHICHEVER IS GREATER, WITH THE CURB BOX INSTALLED 0.50' WITHIN THE RIGHT–OF–WAY.
- 9.) CONTRACTOR MUST CONSTRUCT ALL WATER LINES AND WATER SERVICE LINES SUCH THAT A MINIMUM OF 10' HORIZONTAL CLEARANCE, 18" VERTICAL CLEARANCE ABOVE SANITARY SEWER AND A MINIMUM OF 12" VERTICAL CLEARANCE BELOW STORM SEWER IS MAINTAINED.

GENERAL NOTES

WITTENBERG COMMONS
(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.

DRAWN BY: C.H.B.
CHECKED BY: B.J.A.
FIELD BOOK No.
DATE 3/31/04

SHEET
4 OF 10

PROJ.# 03330

GENERAL NOTES

COOPER & ASSOCIATES, LLP
ENGINEERS AND SURVEYORS



BRYAN J. ASHMAN
JEROLD E. GEIB

REVISIONS

NO.	DATE	REVISION
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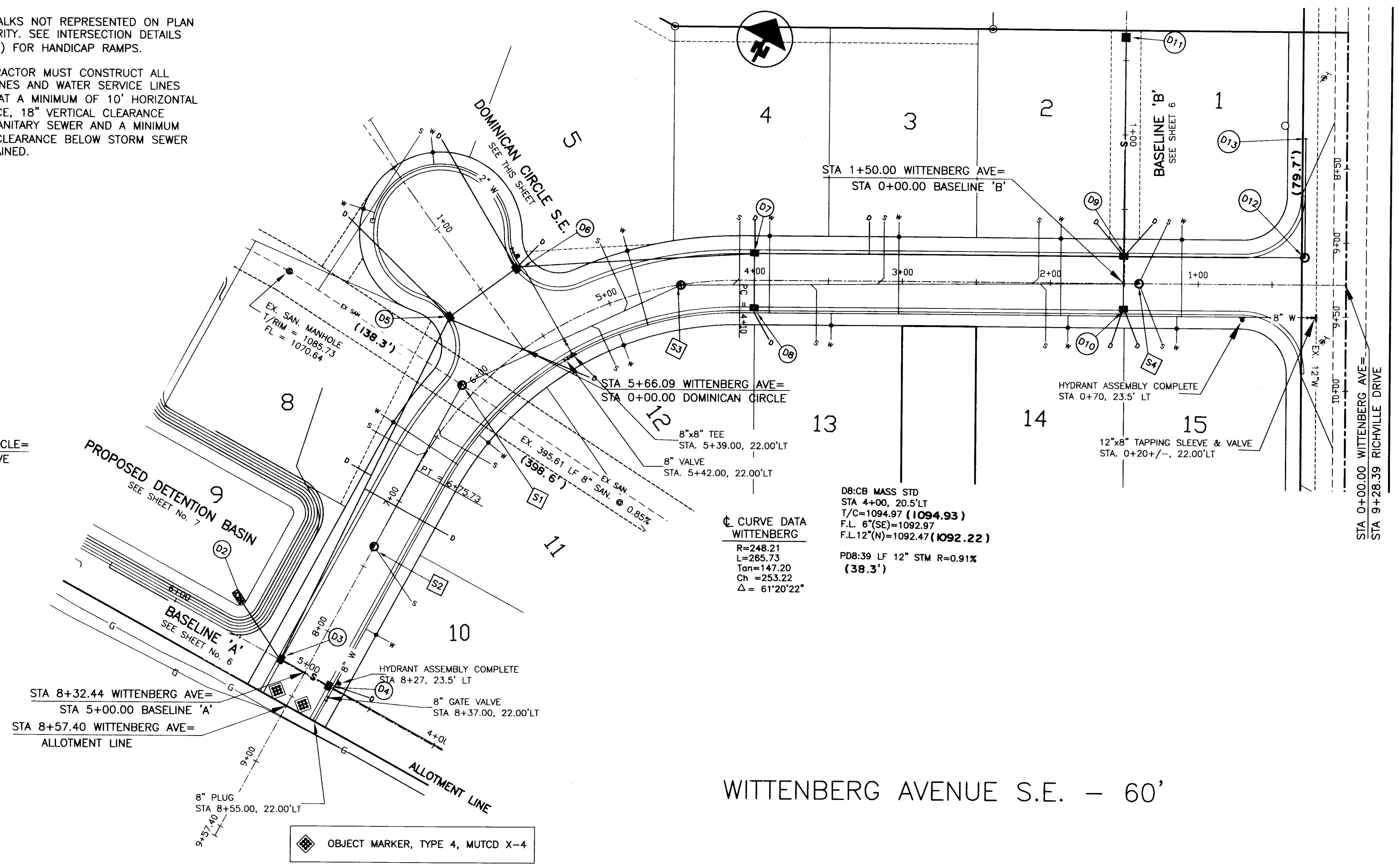
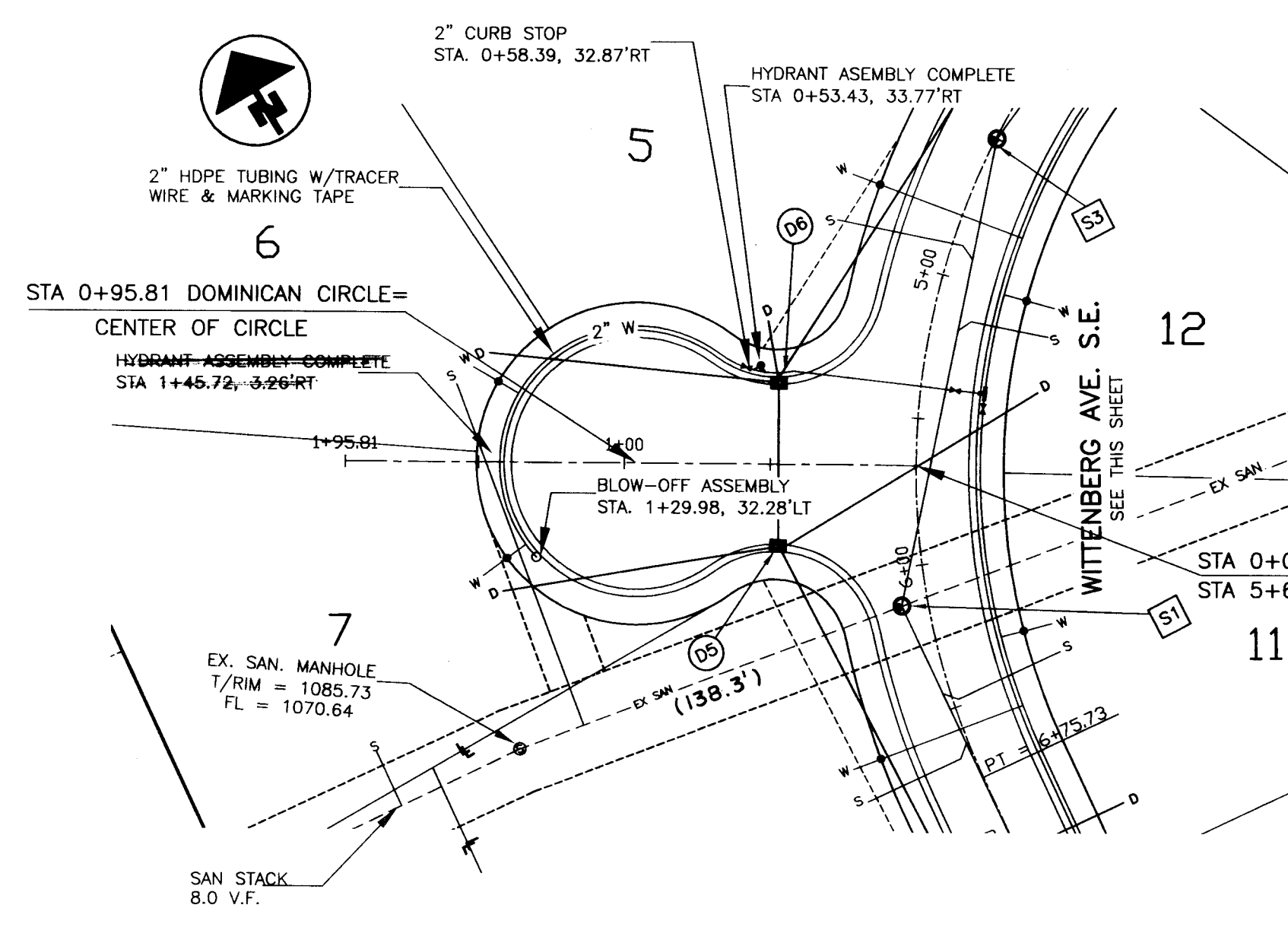
99 50 05

BENCHMARK:
TOP OF FIRE HYDRANT
S.E. CORNER OF THE OHIO
STATE AND WRIGHT STATE
INTERSECTION.

ELEV. = 1094.38

NOTES:
1. SIDEWALKS NOT REPRESENTED ON PLAN
FOR CLARITY. SEE INTERSECTION DETAILS
(SHEET 7) FOR HANDICAP RAMPS.

2. CONTRACTOR MUST CONSTRUCT ALL
WATER LINES AND WATER SERVICE LINES
SUCH THAT A MINIMUM OF 10' HORIZONTAL
CLEARANCE, 18" VERTICAL CLEARANCE
ABOVE SANITARY SEWER AND A MINIMUM
OF 12" CLEARANCE BELOW STORM SEWER
IS MAINTAINED.

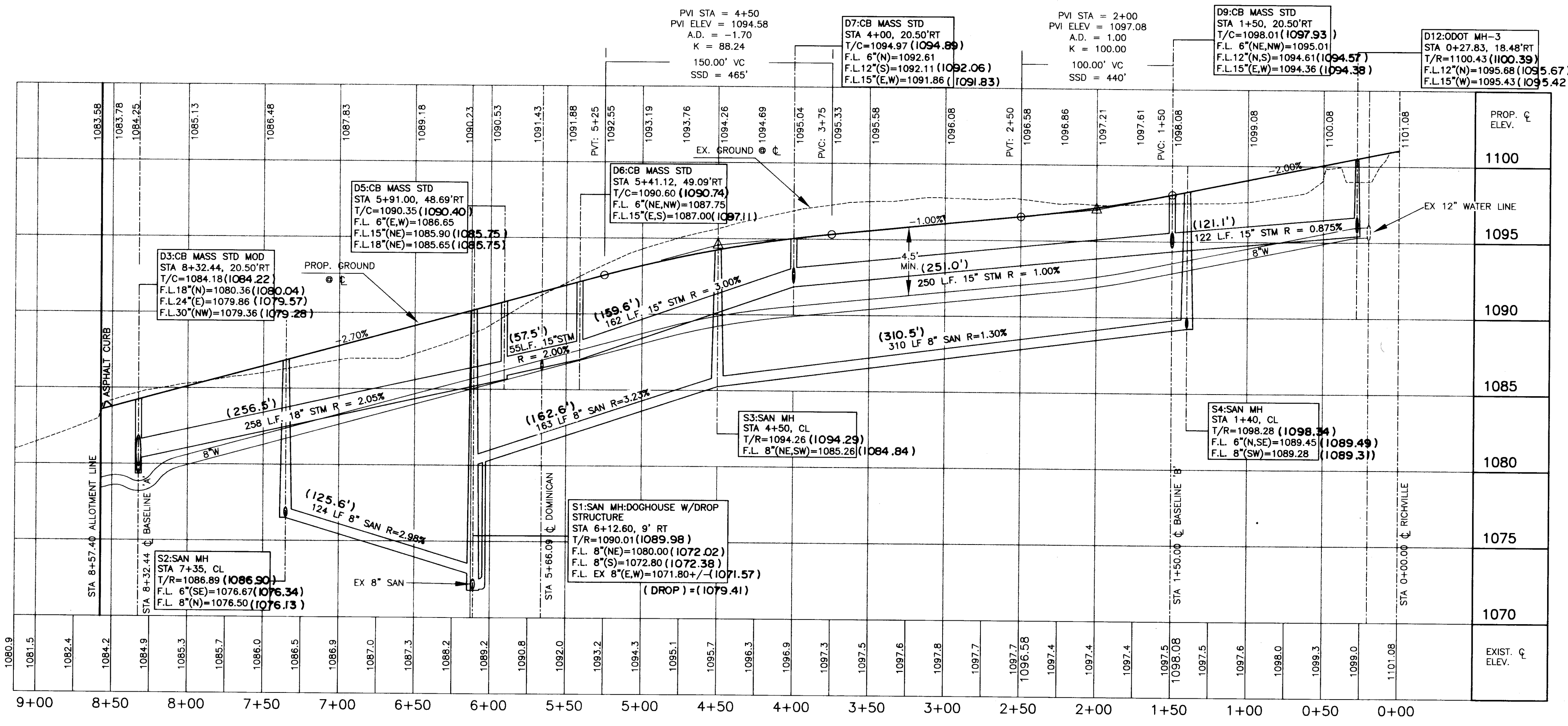
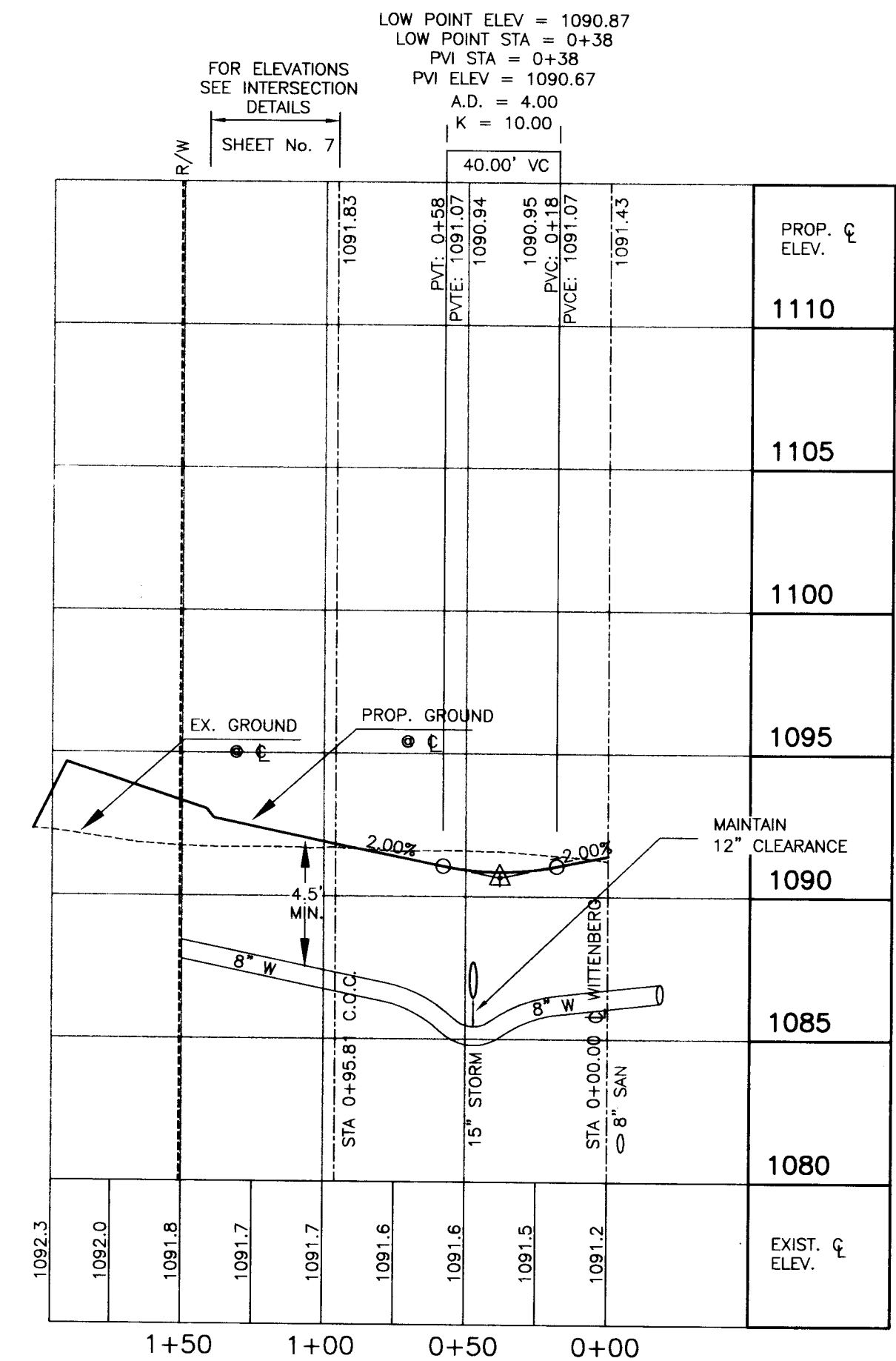


D13:HW ODOT 2.1
RICHVILLE
STA 8+30.00
F.L. 12"(S)=1101.00

PD13:80 LF 12" STM
R=6.65%

DOMINICAN CIRCLE S.E.

WITTENBERG AVENUE S.E. - 60'



VERTICAL SCALE
SCALE: 1" = 5'

HORIZONTAL SCALE
SCALE: 1" = 50'

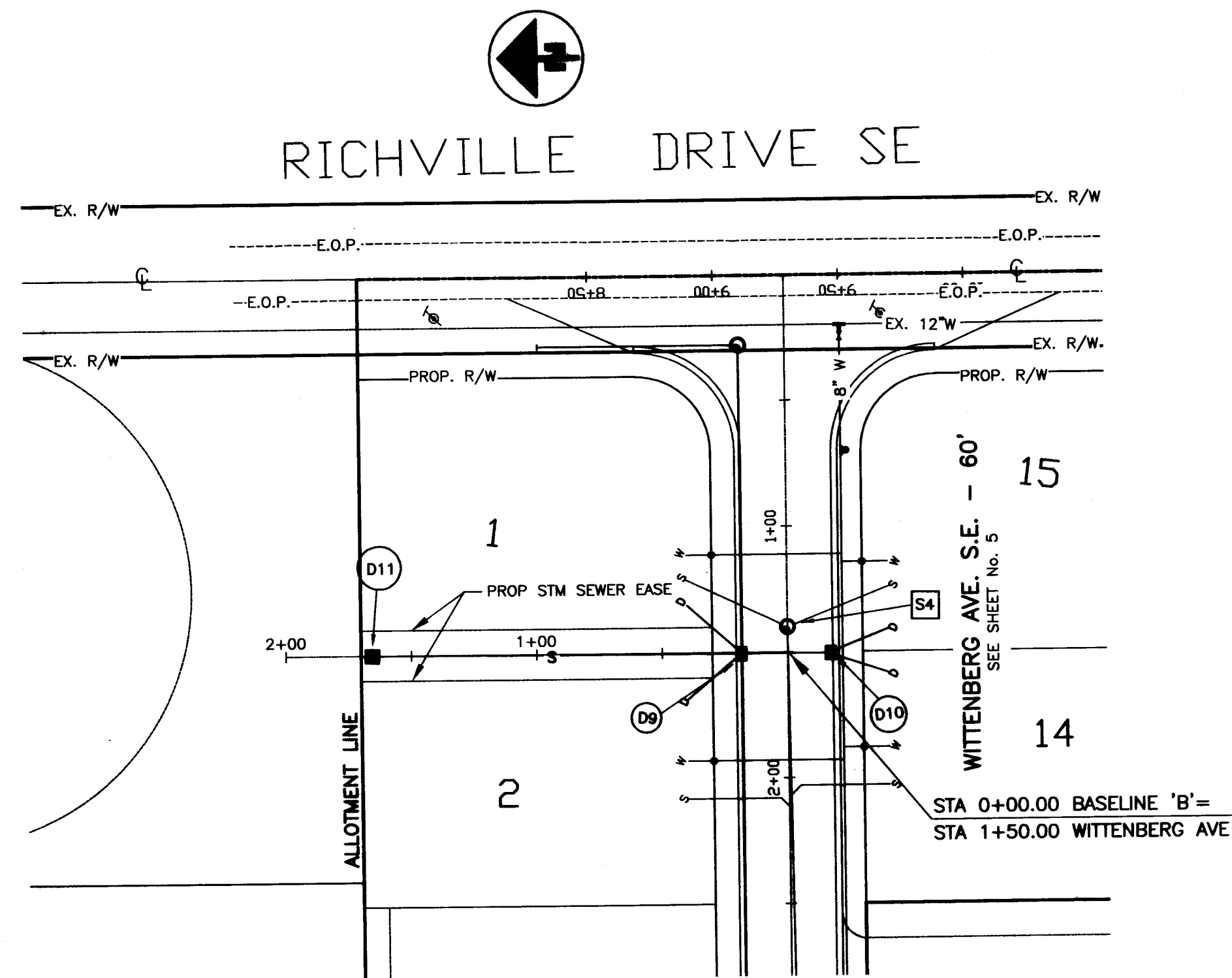
REVISIONS

NO.	DATE	BY	CHKD.	COMMENTS
1	07/02/04	BRYAN J. ASHMAN	JEROLD E. GEIB	AQUA OHIO COMMENTS
2	06/16/04	Mosellon Eng.		Comments
3	04/29/04	Aqua Ohio		Comments

BRYAN J. ASHMAN
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1359 MARKET AVENUE, NORTH CANTON, OHIO 44714
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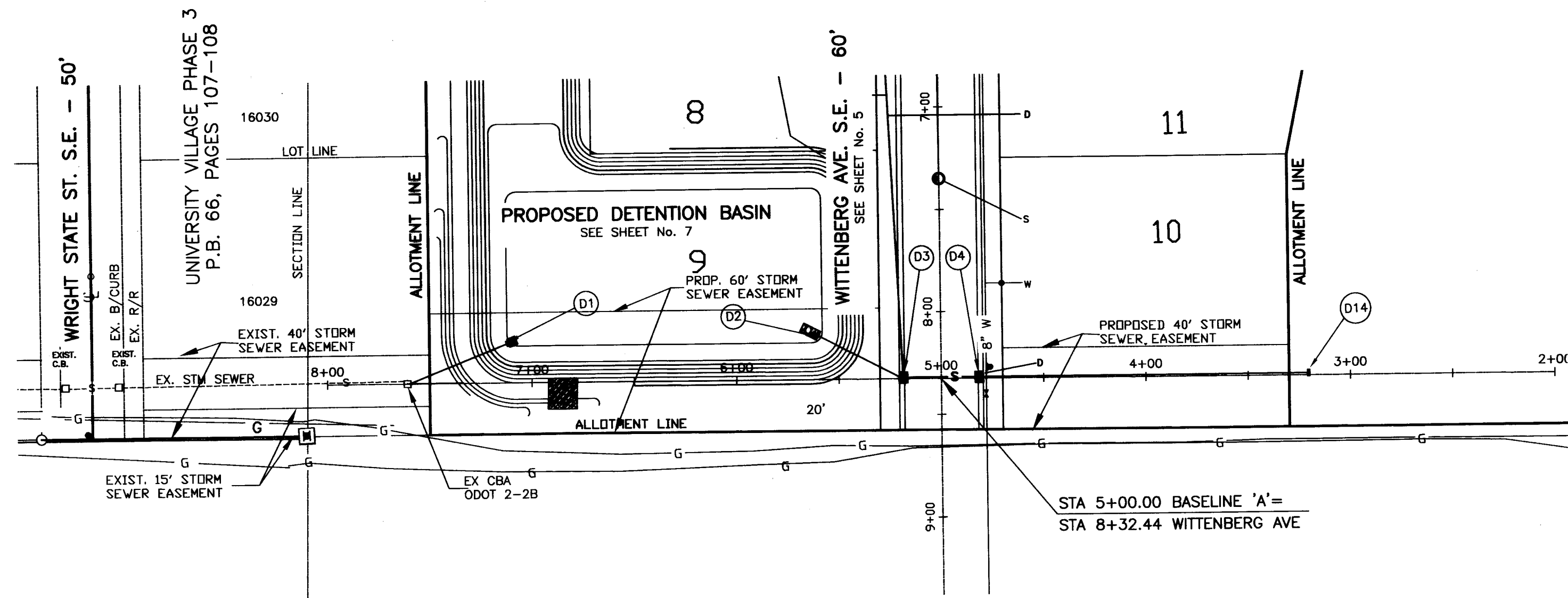
PLAN AND PROFILE
WITTENBERG COMMONS
(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.
Phase 9

DRAWN BY: C.H.B.
CHECKED BY: B.J.A.
FIELD BOOK No. _____
DATE: 3/31/04
SHEET 5 OF 10
PROJ. # 033330

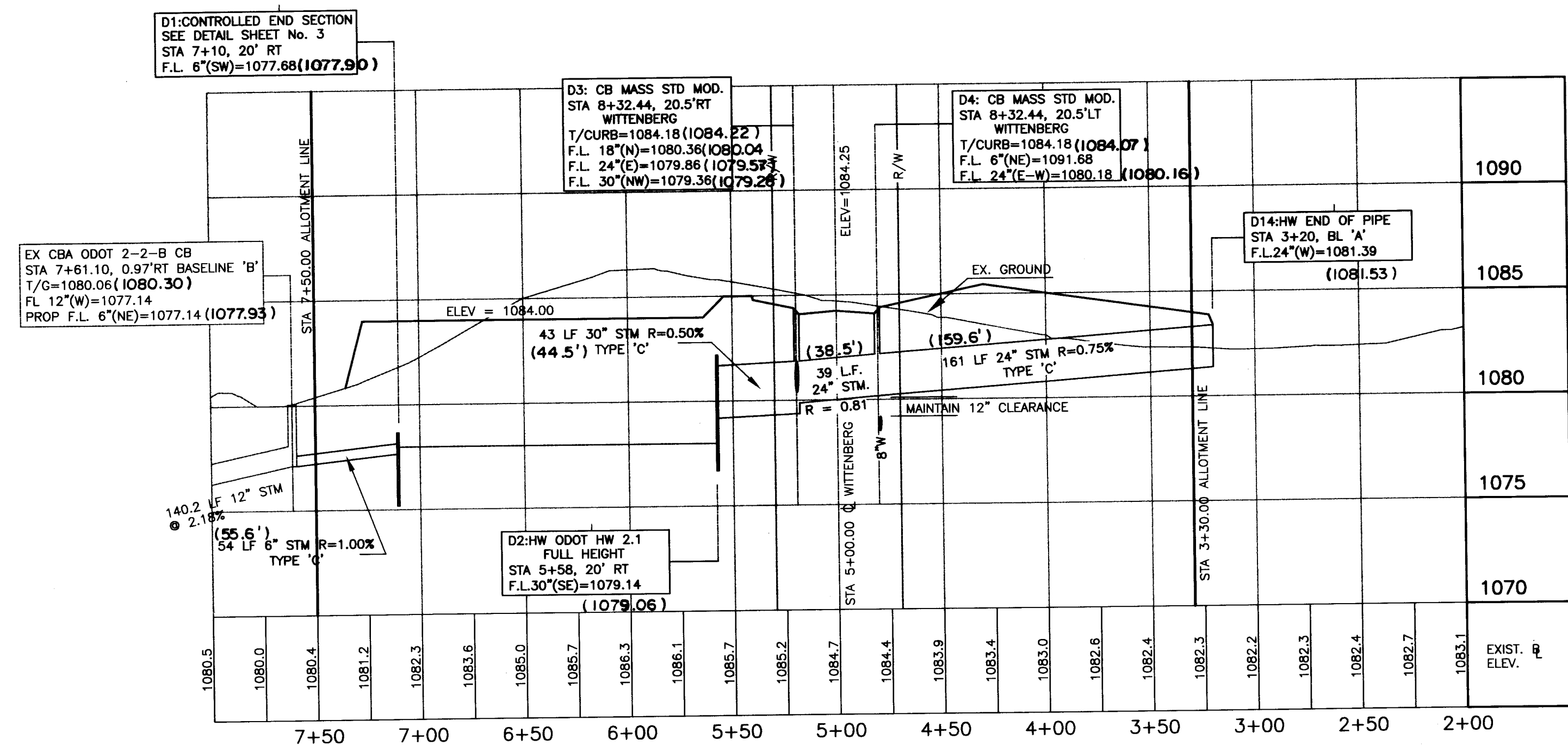
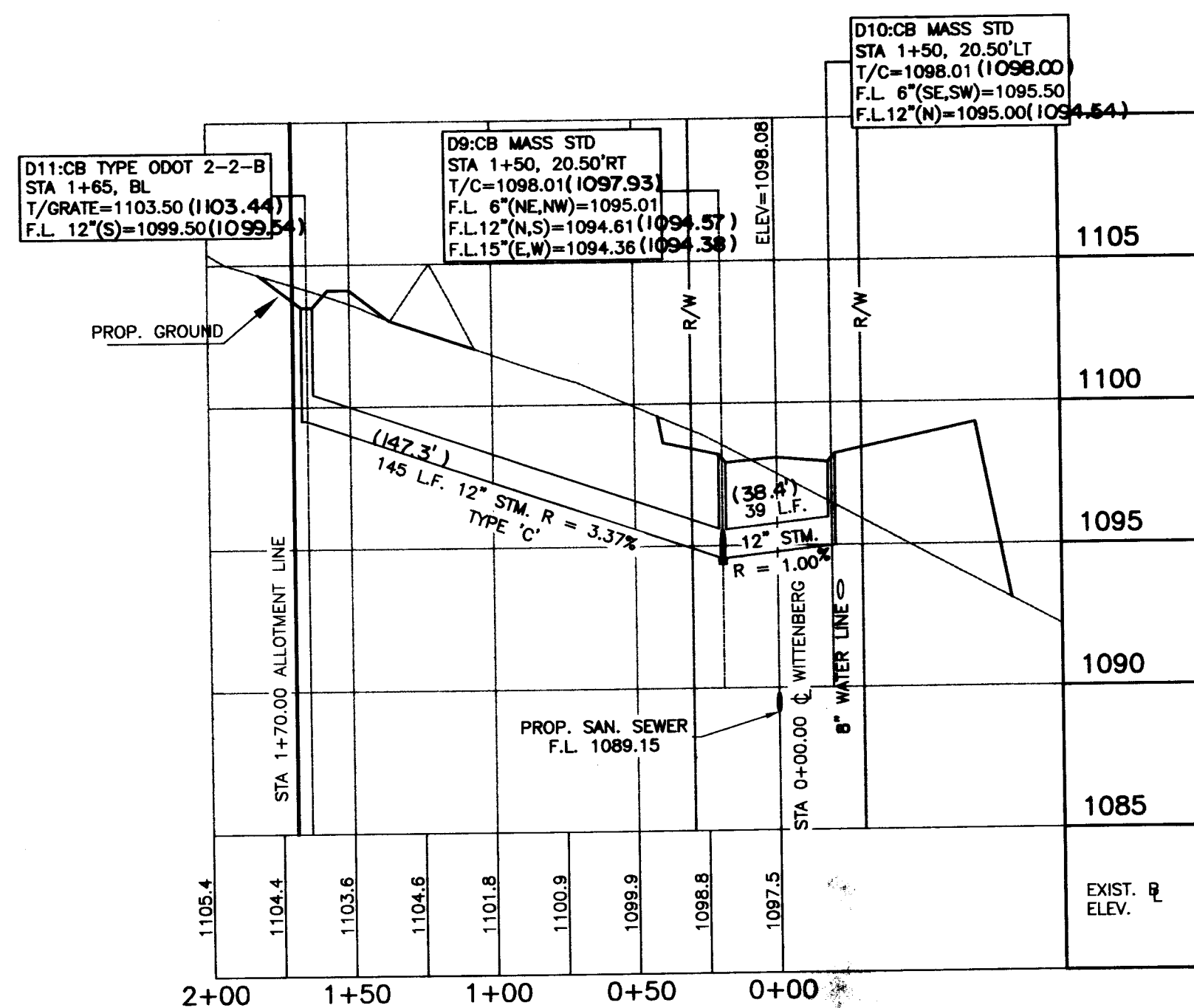


STORM BASELINE 'B'

BENCHMARK:
TOP OF FIRE HYDRANT
S.E. CORNER OF THE OHIO
STATE AND WRIGHT STATE
INTERSECTION.
ELEV. = 1094.38



STORM BASELINE 'A'



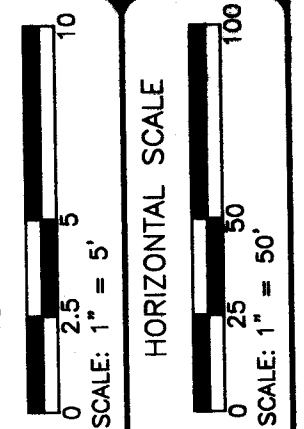
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CHECKED BY: B.J.A.
FIELD BOOK No. _____
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SHEET 6 OF 10
PROJ. # 03330

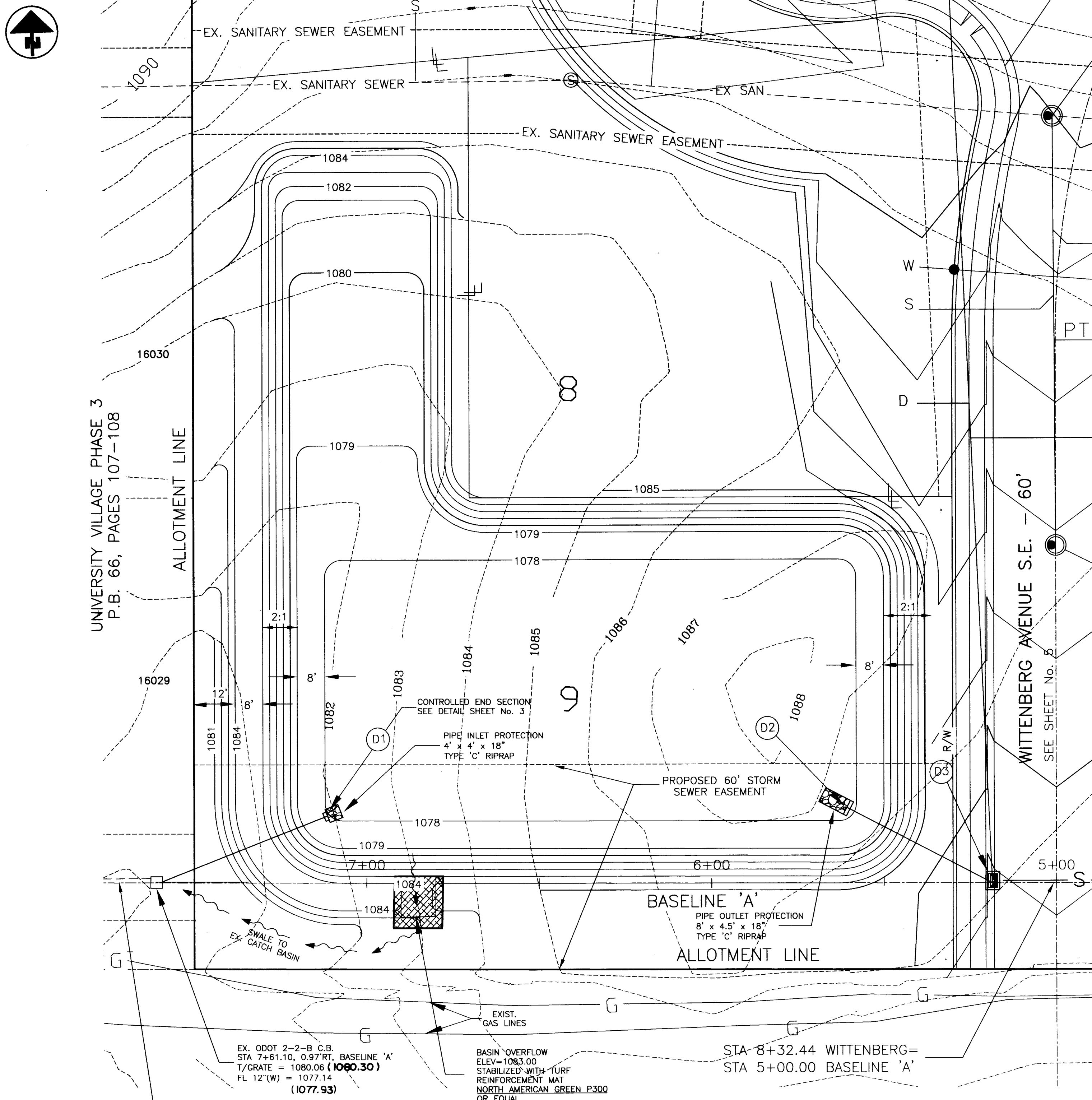
PLAN AND PROFILE
WITTENBERG COMMONS
(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.

COOPER & ASSOCIATES, LLP
ENGINEERS AND SURVEYORS
1355 MARKET
AVENUE NORTH
CANTON, OHIO 44714

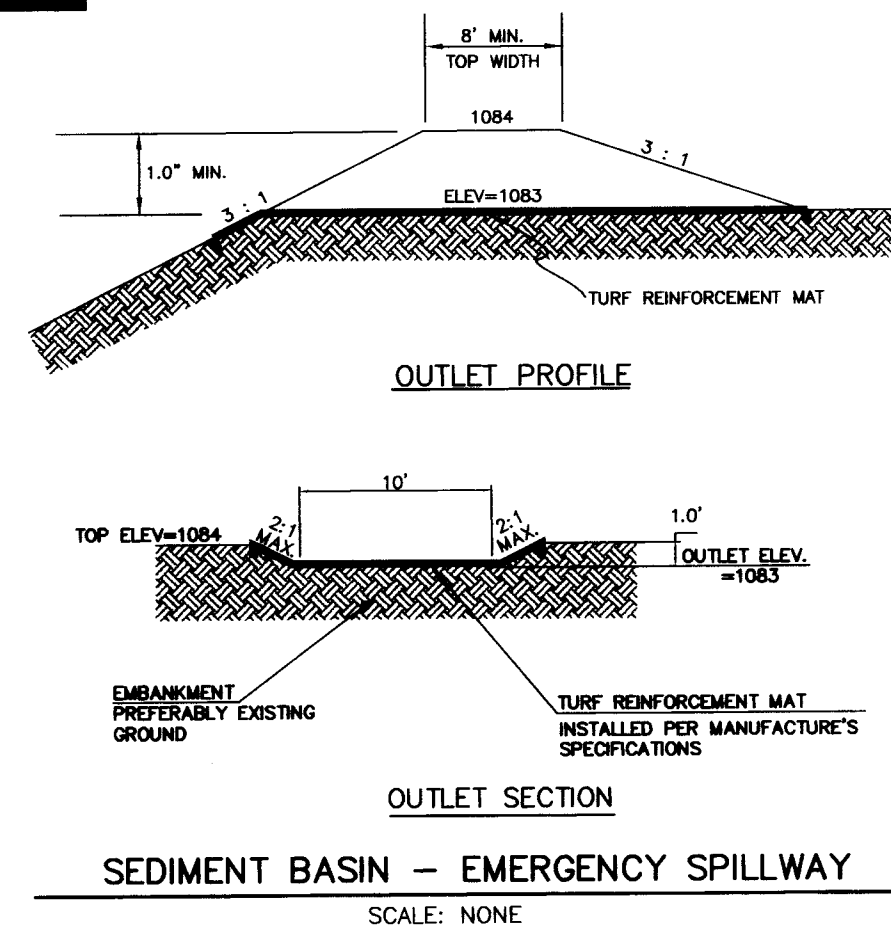
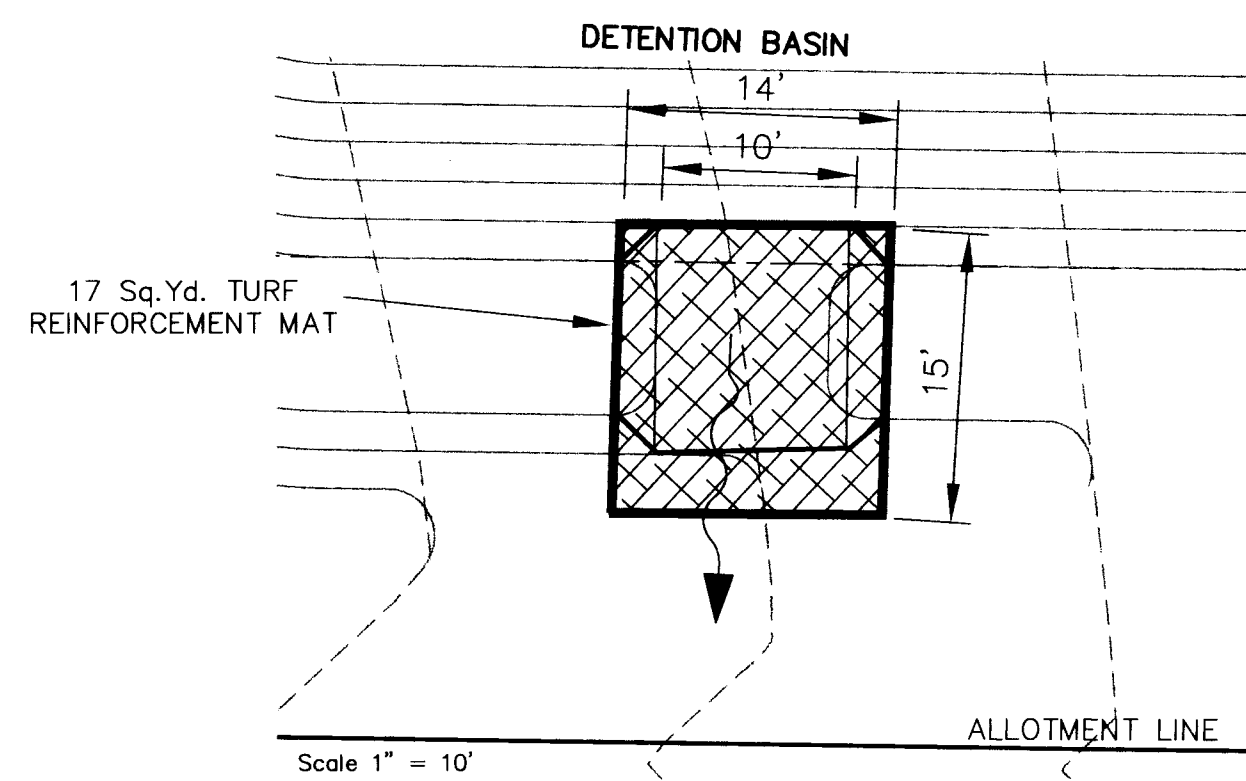
BRYAN J. ASHMAN
JEROLD E. GEIB
PHONE (330) 452-5731
FAX No (330) 452-9110

REVISIONS		DATE	BY	REASON
1		05/16/04	C.H.B.	WITTENBERG COMMONS
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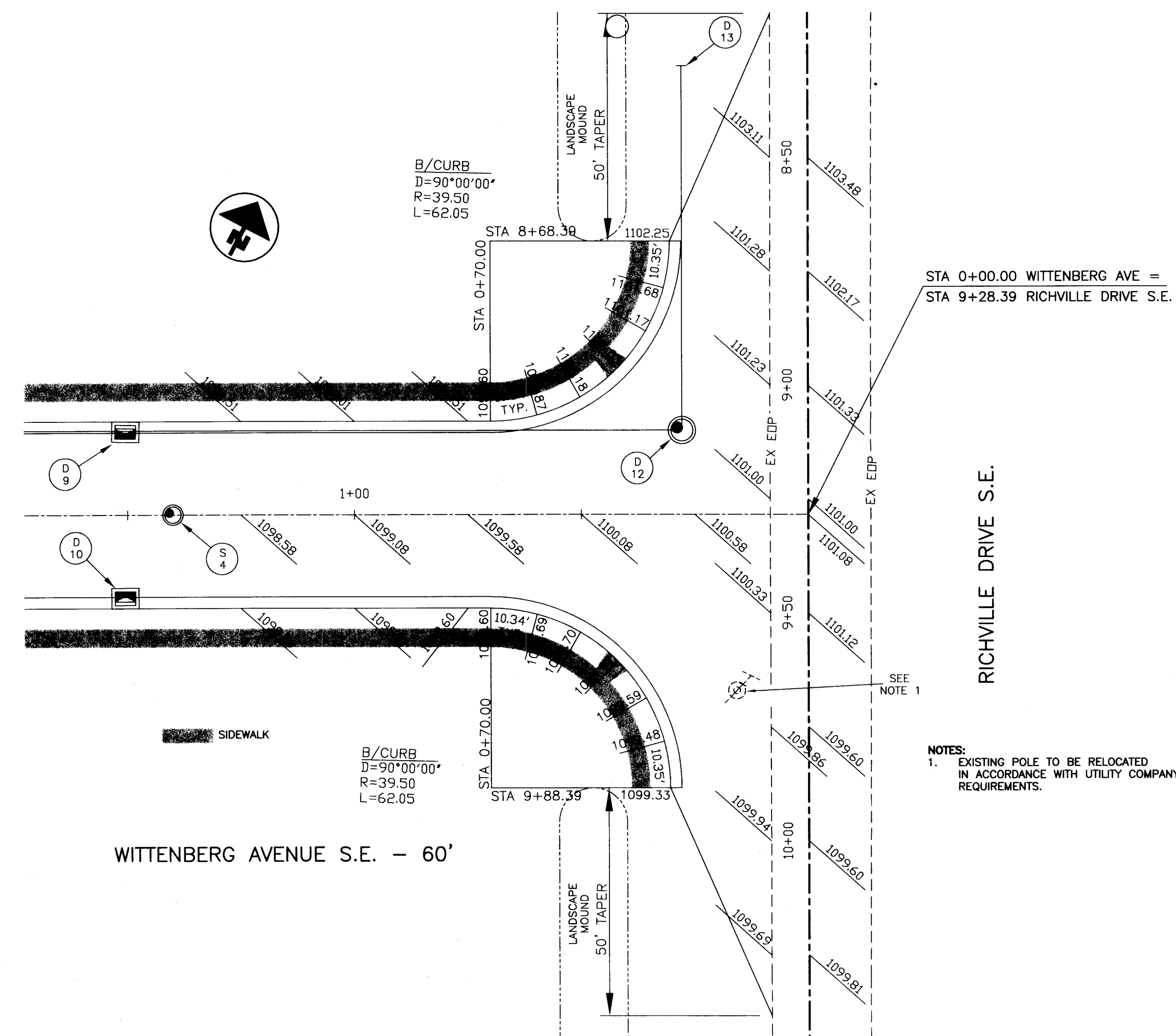
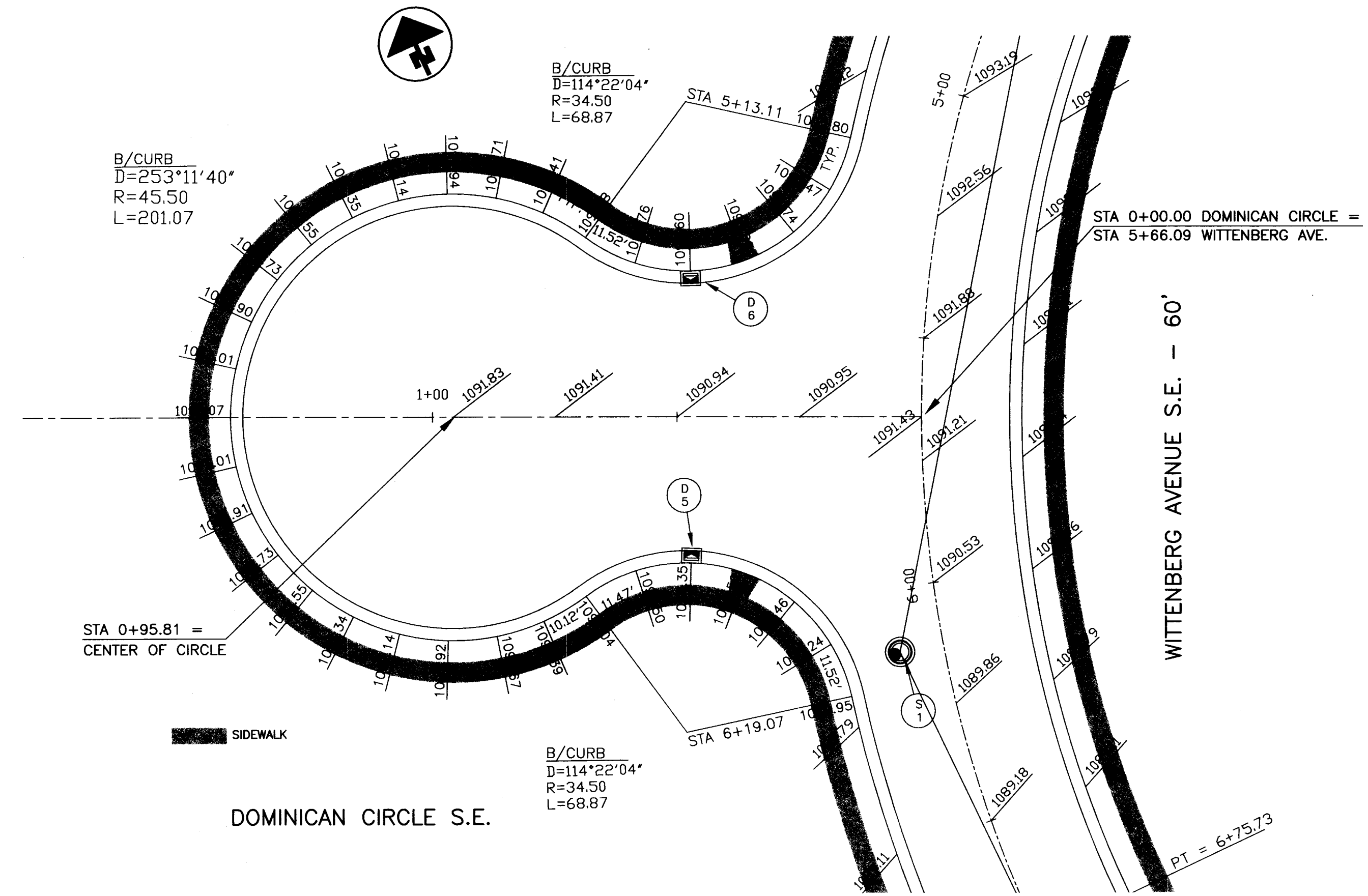




PROPOSED DETENTION BASIN PLAN
SCALE 1" = 20'



EMERGENCY SPILLWAY
SCALE: NONE



NOTES:
1. EXISTING POLE TO BE RELOCATED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

DETENTION BASIN & INTERSECTION DETAILS

DETENTION BASIN & INTERSECTION DETAILS

WITTENBERG COMMONS

(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.

DRAWN BY: C.H.B.
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SHEET 7 OF 10
PROJ# 03330

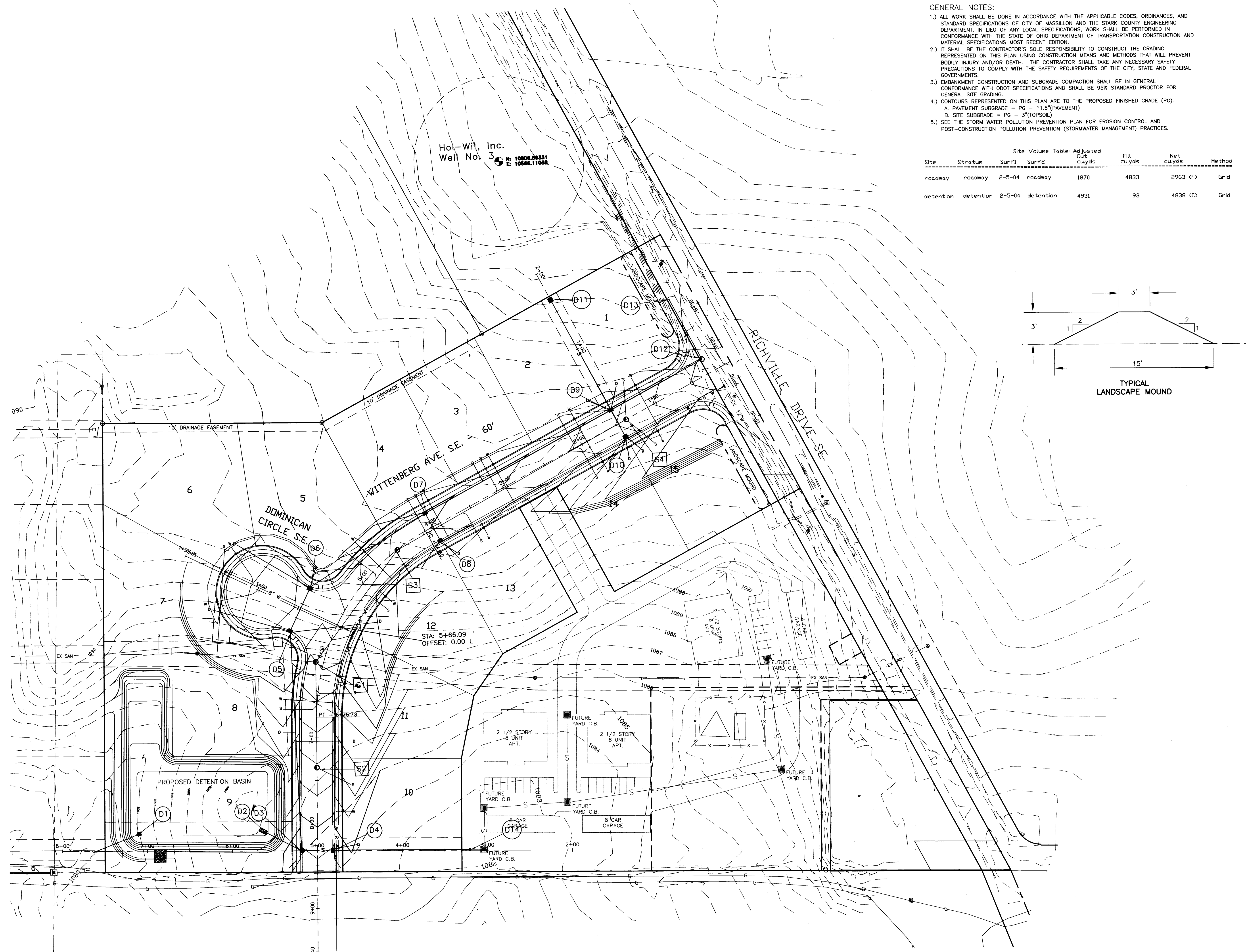
COOPER & ASSOCIATES, LLP
ENGINEERS AND SURVEYORS
BRYAN J. ASHMAN
JEROLD E. GEIB

PHONE (330) 452-5731
FAX No. (330) 452-9110

REVISIONS

NO.	DATE	REVISION
1	06/18/04	Massillon Eng. Comments
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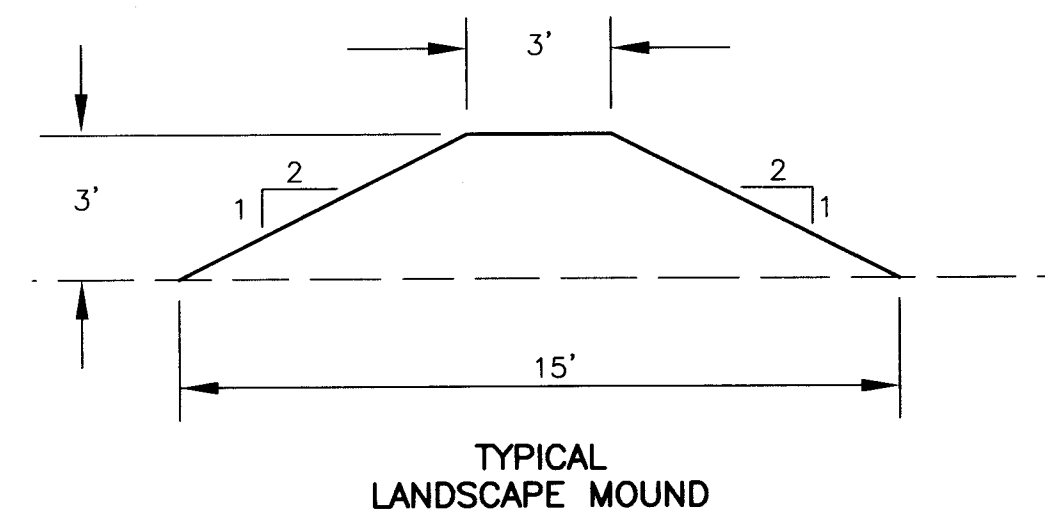
HORIZONTAL SCALE
1" = 20'
0 10 20 40



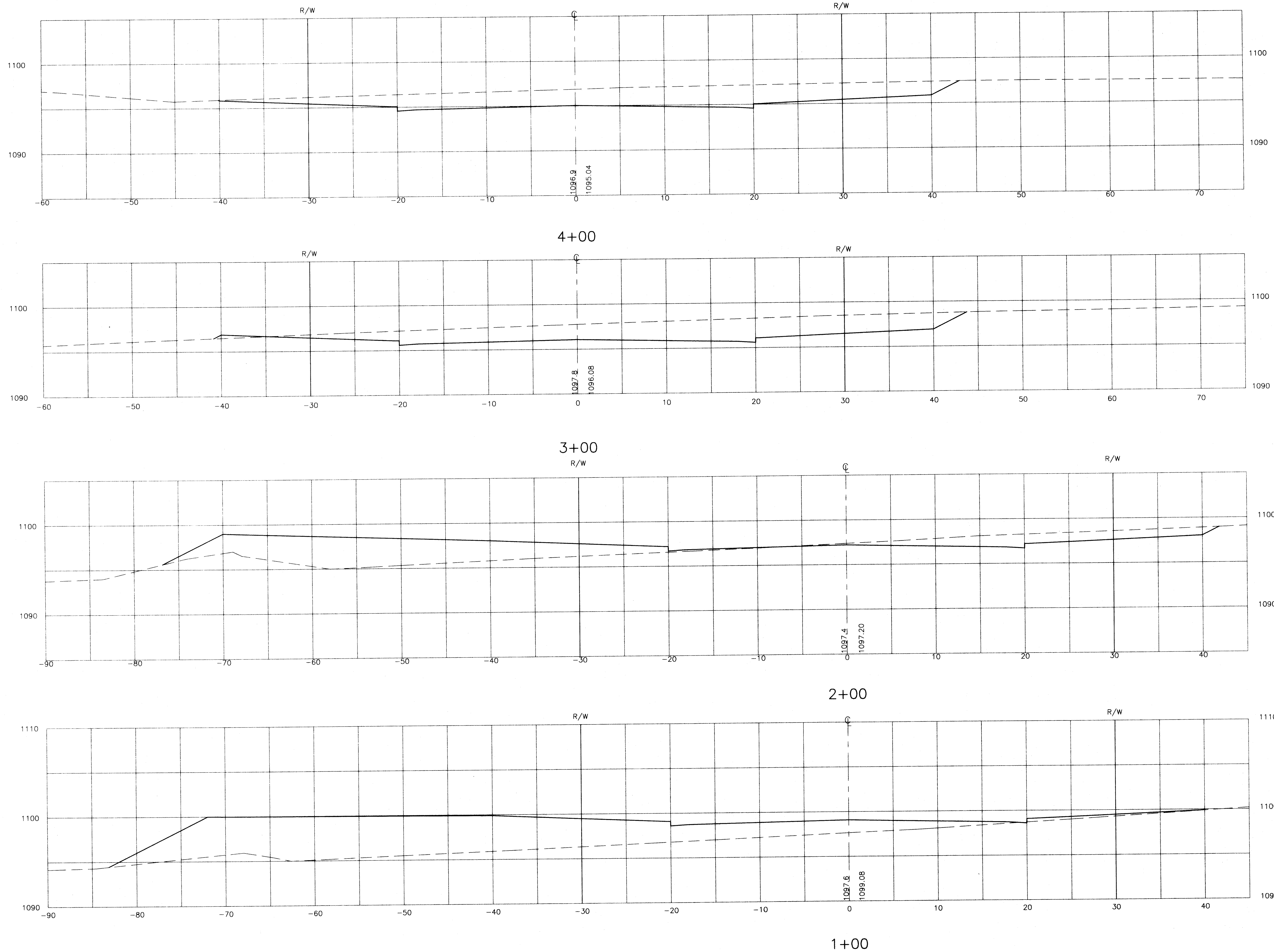
GENERAL NOTES:

- 1.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES, AND STANDARD SPECIFICATIONS OF CITY OF MASSILLON AND THE STARK COUNTY ENGINEERING DEPARTMENT. IN LIEU OF ANY LOCAL SPECIFICATIONS, WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS MOST RECENT EDITION.
- 2.) IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONSTRUCT THE GRADING REPRESENTED ON THIS PLAN USING CONSTRUCTION MEANS AND METHODS THAT WILL PREVENT BODILY INJURY AND/OR DEATH. THE CONTRACTOR SHALL TAKE ANY NECESSARY SAFETY PRECAUTIONS TO COMPLY WITH THE SAFETY REQUIREMENTS OF THE CITY, STATE AND FEDERAL GOVERNMENTS.
- 3.) EMBANKMENT CONSTRUCTION AND SUBGRADE COMPACTION SHALL BE IN GENERAL CONFORMANCE WITH ODOT SPECIFICATIONS AND SHALL BE 95% STANDARD PROCTOR FOR GENERAL SITE GRADING.
- 4.) CONTOURS REPRESENTED ON THIS PLAN ARE TO THE PROPOSED FINISHED GRADE (PG):
A. PAVEMENT SUBGRADE = PG - 11.5"(PAVEMENT)
B. SITE SUBGRADE = PG - 3"(TOPSOIL)
- 5.) SEE THE STORM WATER POLLUTION PREVENTION PLAN FOR EROSION CONTROL AND POST-CONSTRUCTION POLLUTION PREVENTION (STORMWATER MANAGEMENT) PRACTICES.

Site	Stratum	Site Volume Table	Adjusted Cut cu yds	Fill cu yds	Net cu yds	Method
roadway	roadway	Surf1 Surf2	1870	4833	2963 (F)	Grid
detention	detention	2-5-04	4931	93	4838 (C)	Grid



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VERTICAL SCALE
0 5 10 20
SCALE: 1" = 10'

HORIZONTAL SCALE
0 5 10 20
SCALE: 1" = 10'

REVISIONS	
NO.	DESCRIPTION

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JEROLD E. GEIB

1883 MARKET AVENUE NORTH
CANTON, OHIO 44714

PHONE (330) 452-5731
FAX No (330) 452-9110

CROSS-SECTION SHEET

WITTENBERG COMMONS
(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.

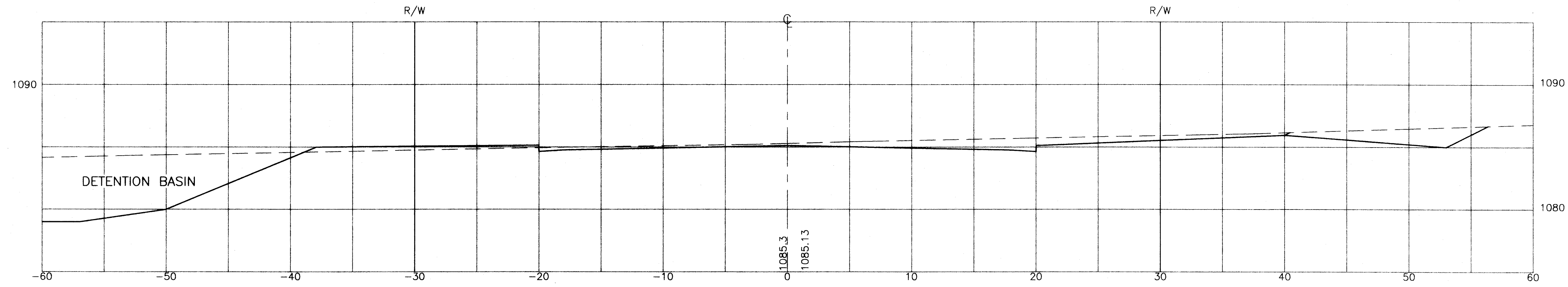
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CHECKED BY: B.J.A.
FIELD BOOK No. _____
DATE 5/16/04

SHEET
9 OF **10**

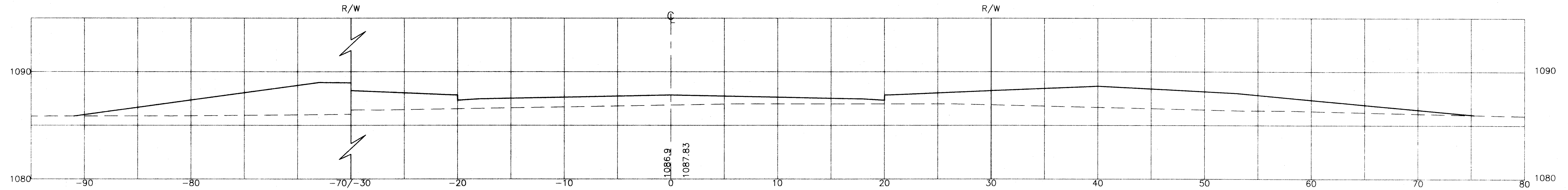
PROJ.# **03330**

STA. 1+00 to 4+00

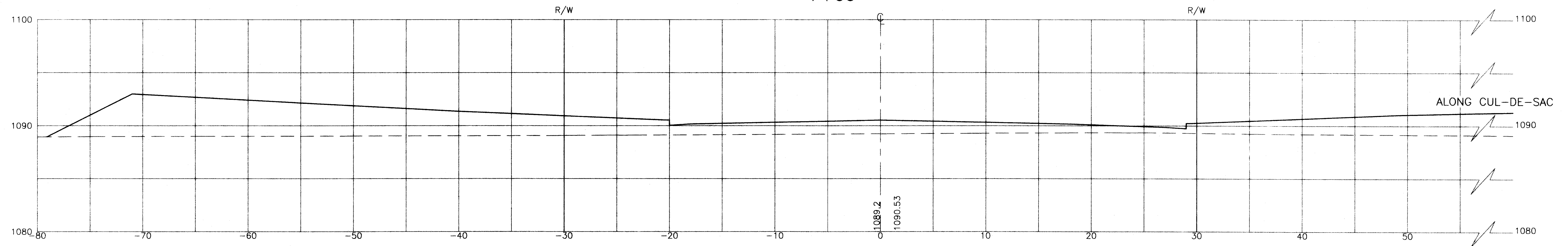
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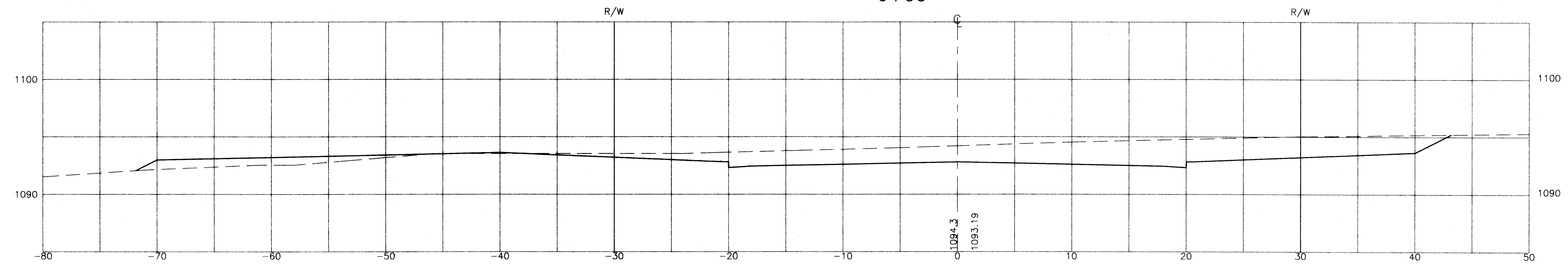
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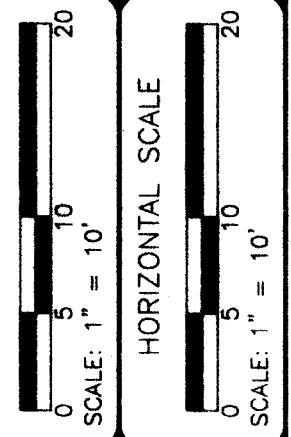
7+00



6+00



5+00



NO.	REVISIONS
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1359 MARKET
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CANTON, OHIO
44714

WITTENBERG COMMONS
(UNIVERSITY VILLAGE No. 9)
FOR: P.R.M.D.C., LTD.

DRAWN BY: C.H.B.
CHECKED BY: B.J.A.
FIELD BOOK No.
DATE: 6/16/04
SHEET
10 OF 10
PROJ. # 03330

STA. 5+00 to 8+00