

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

THIS 7 DAY OF APRIL 2005

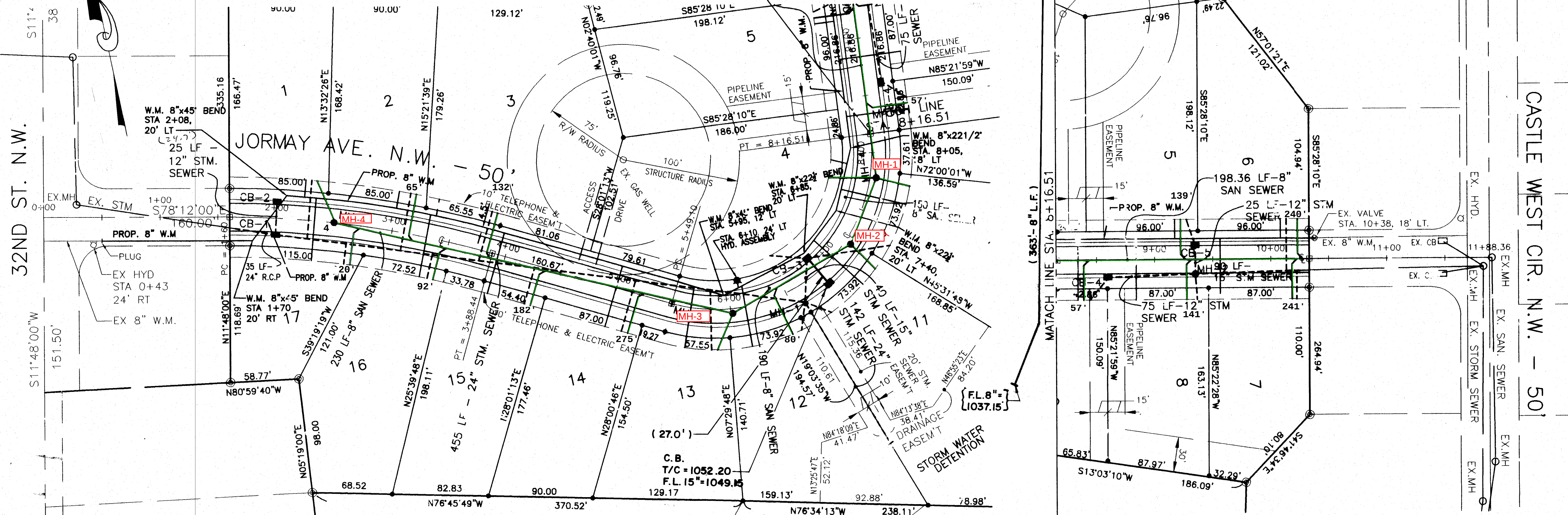
Bryan J. Ashman
BRYAN J. ASHMAN
REGISTERED ENGINEER No. E-043804

*AS BUILT ACQUIRED USING SCRS; STATION NAME TUS-11-01. BENCH MARK REFERENCED ON THESE ME COMPANIES PLANS IS 1.65' HIGHER THAN GIS BENCH SYSTEM USED.

GRAPHIC SCALE



1 inch = 50 ft.



BENCH MARKS

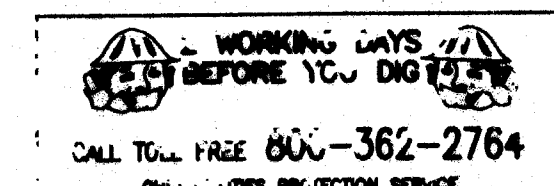
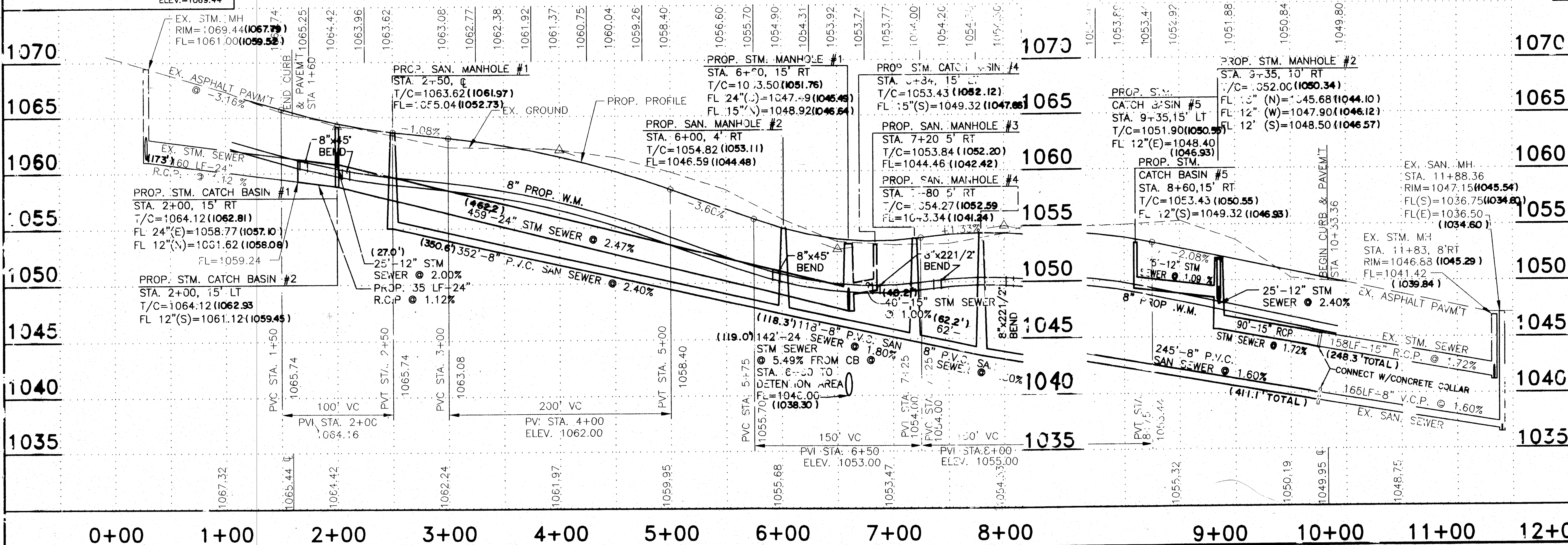
EXISTING STORM MANHOLE
NE CORNER TOP OF RIM
AT INTERSECTION OF 32ND ST. N.W.
AND JORMAY AVE. N.W.

ELEV. = 1069.44

BENCH MARKS

EXISTING STORM MANHOLE
NE CORNER TOP OF RIM
AT THE INTERSECTION OF
CASTLE WEST CIRCLE N.W.
AND JORMAY N.W.

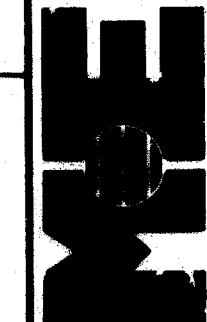
ELEV. = 1046.88



REVISIONS

DATE	BY	DESCRIPTION
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Site Development Group
4150 Redwood
Contact: (408) 447-1616
330-49-9000 Ext. 4000
Fax: 408-9000



CASILE WEST ESTATE No. 3
PART OF OUT LOT 153
PLAN AND PROFILE
JORMAY AVE. N.W.

DESIGN	DRAFT	CHECK
JLC	AGW	DDF
DATE:	August 2002	
SCALE:	HORIZONTAL = 1" = 50'	VERTICAL = 1" = 5'
DATE:	August 2002	

SHEET NO. 3/7

03 50 01 05174

ADVANCE SEWER SYSTEMS, INC.

4141 SOUTHWAY ST. S.W.

CANTON, OHIO 44706

OFFICE - (216) 477-8087

PROJECT NAME: JORMAY ST. (City of Massillon)

COUNTY: Stark

CONT. NAME: H&W Contractors

DATE: 9/24/03

PIPE SIZE: 8" Sanitary

MANHOLE #
1 to EX
STREET NAME
Jormay St.

MANHOLE #
1 to 2
STREET NAME
Jormay St.

WYE # 1- 57'R

WYE # none

2-139'L

Total 62 Ft.

3-141'R

4-240'L

5-241'R Total 245 Ft.

PROBLEM:

PROBLEM:

MANHOLE #
2 to 3
STREET NAME
Jormay St.

MANHOLE #
4 to 3
STREET NAME
Jormay St.

WYE # 1- 80'L

WYE # 1- 20'R

Total 122 Ft.

2- 65'L

3- 92'R

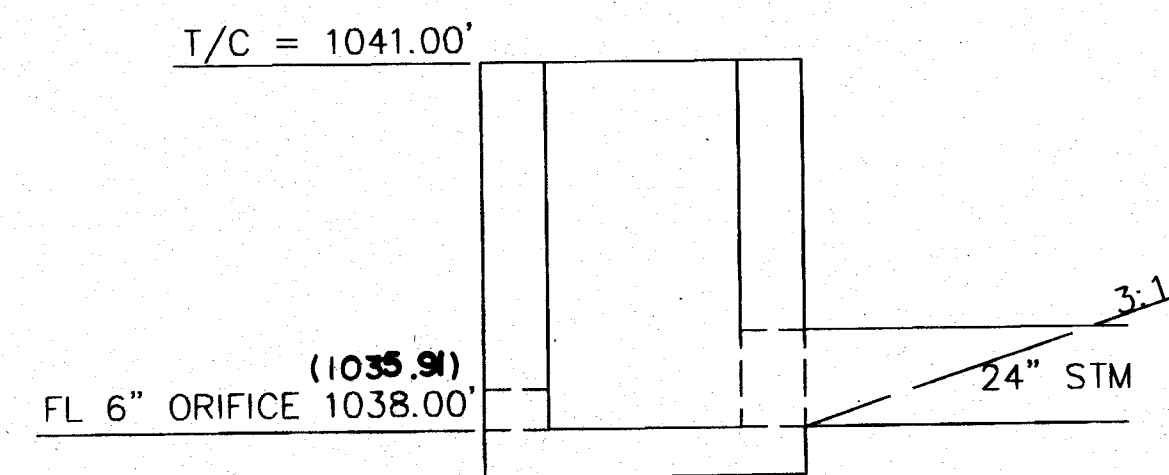
4-132'L

5-182'R

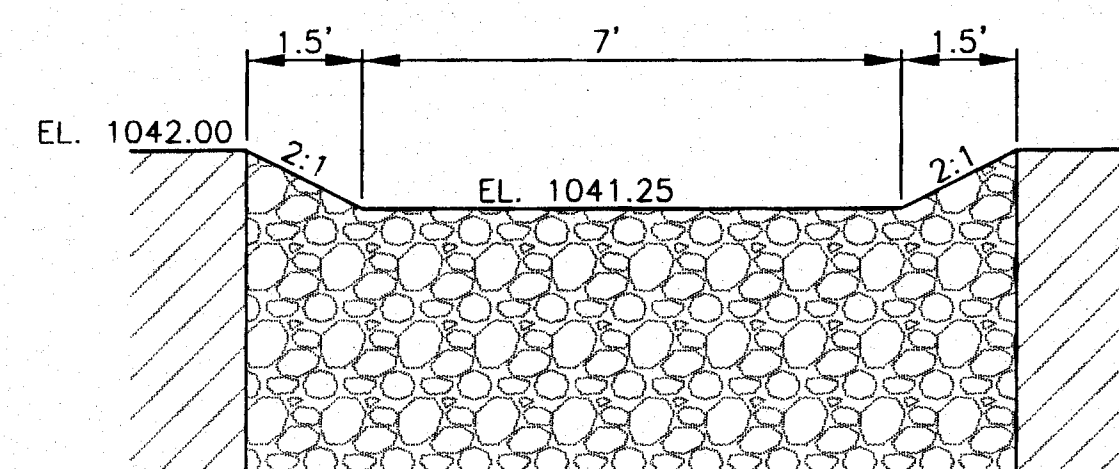
6-275'R Total 358 Ft.

PROBLEM:

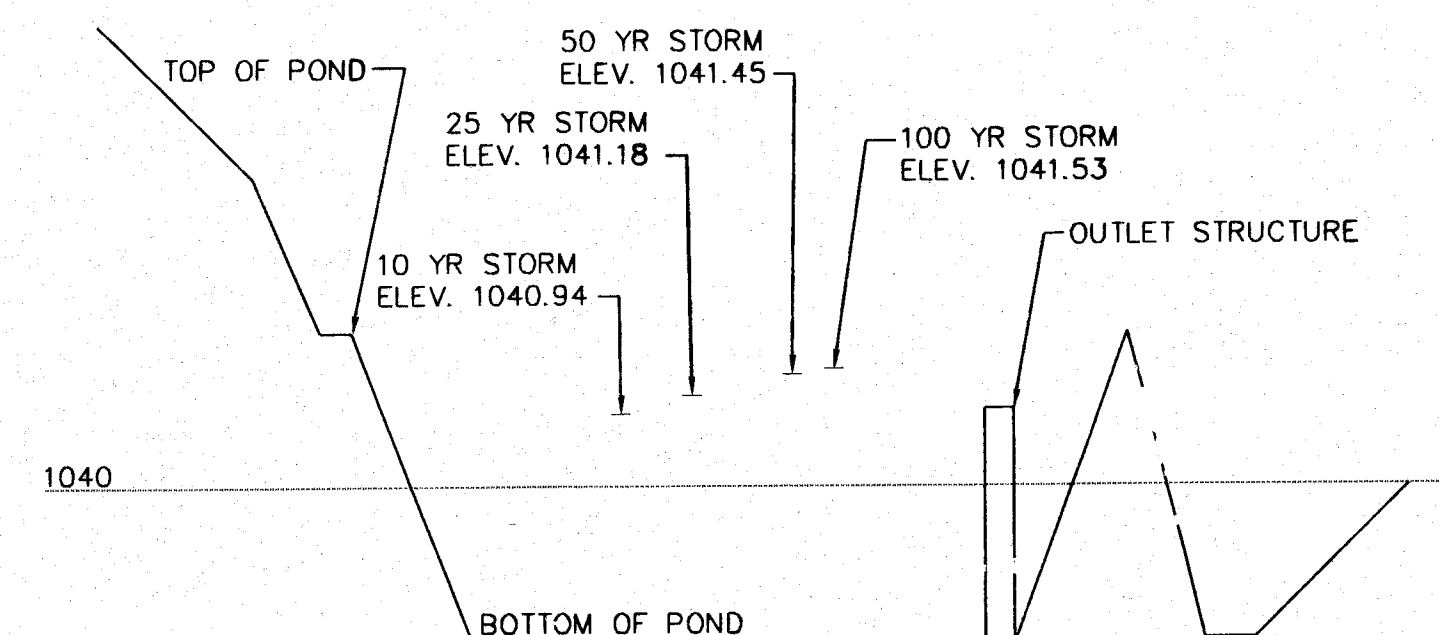
PROBLEM:



OUTLET STRUCTURE
ODOT 2-2B
OR CITY OF MASSILLON EQUIVALENT



12" TYPE C ROCK SEEDED EMBANKMENT
EMERGENCY SPILLWAY CROSS-SECTION
NOT TO SCALE

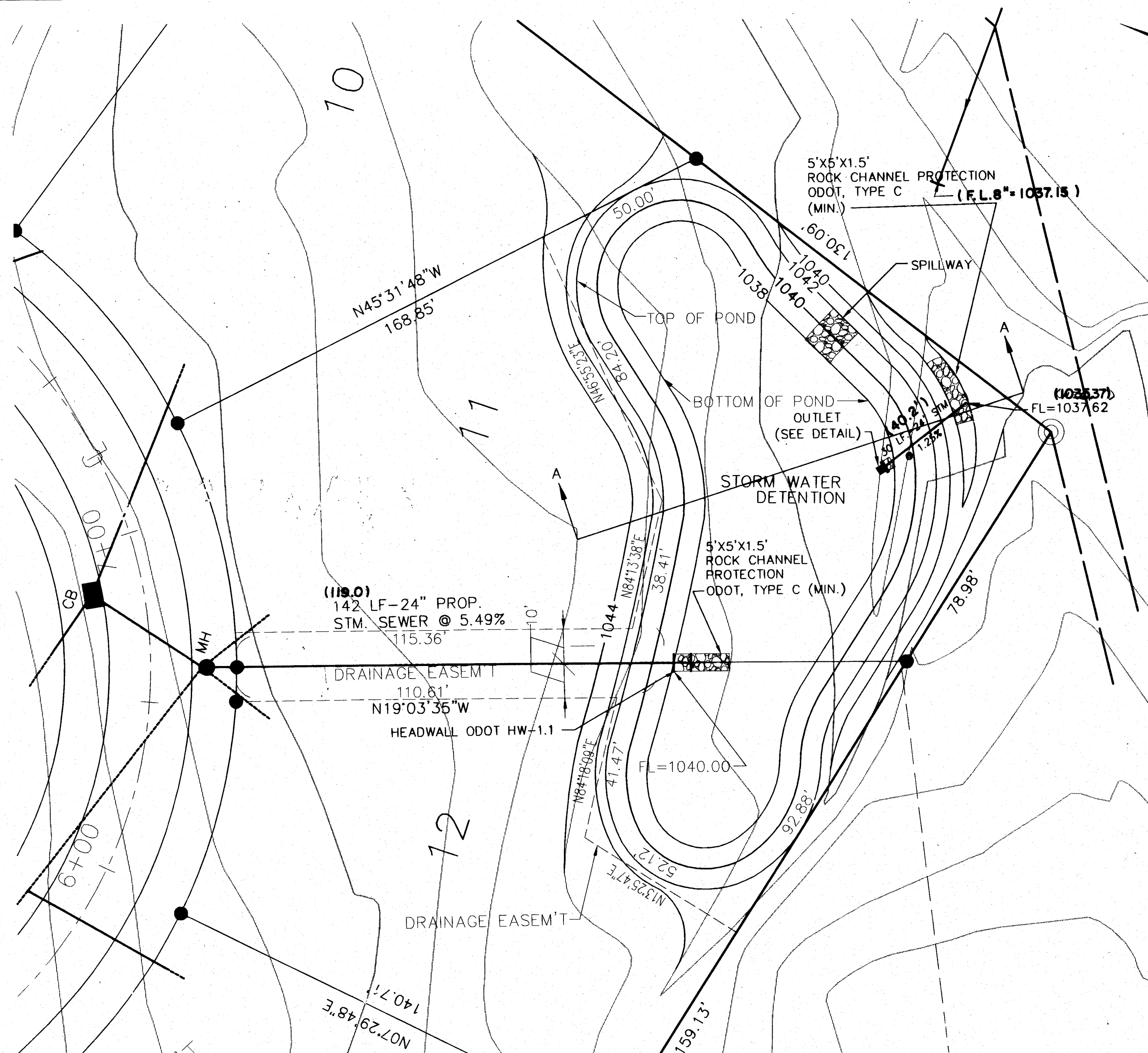


DETENTION POND CROSS-SECTION

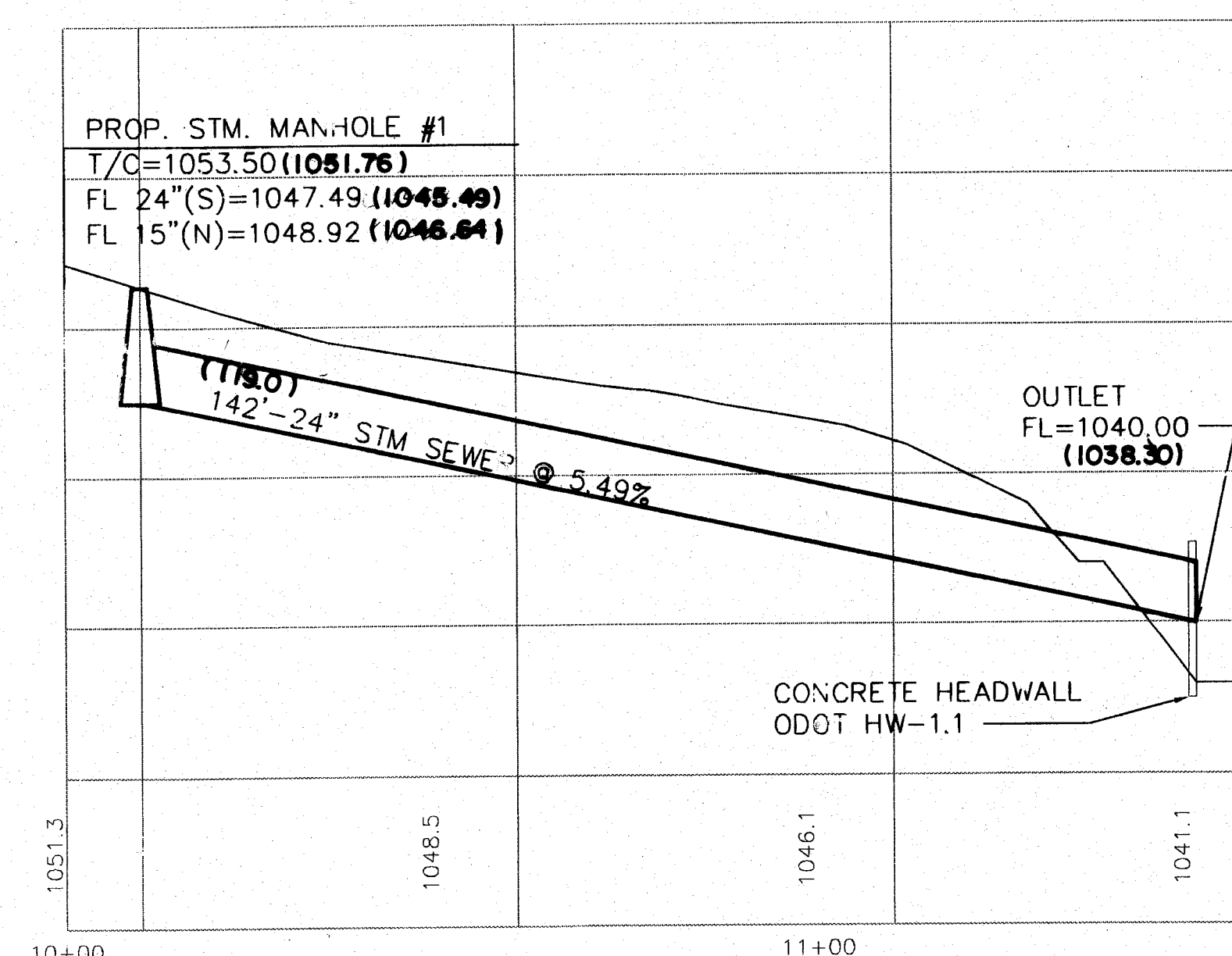
I HEREBY CERTIFY THAT THESE IMPROVEMENTS HAVE BEEN COMPLETED, AS INDICATED BY THE "AS-BUILT" DIMENSIONS SHOWN ON THESE PLANS. (AS-BUILT)

THIS 7 DAY OF April, 2005.

Bryan J. Ashman
BRYAN J. ASHMAN
REGISTERED ENGINEER No. E-043804



STORM WATER DETENTION DETAIL
SCALE: 1"=20'



OUTLET PIPE PROFILE
SCALE: 1"=20' H
1"=5' V

REVISIONS

DESCRIPTION

DATE

BY

Site Development Group
4150 Belden Road
Canton, OH 44705
Contact: 330-491-9000 Ext. 223
Fax: 330-491-9000

ME
COMPANIES

MASSILLON, OH.
CASTLE WEST ESTATES No. 3
PART OF OUT LOT 193

DETAILS

DESIGN: GCL
DRAWN: AGW
CHECKED: DCS

JOB NO.: 00-14C

DATE: AUGUST 2002

SCALE:
HORIZONTAL: 1"=40'
VERTICAL: 1"=10'

PRINT DATE:
AUGUST 20, 2002

SHEET NO.: 5/7

Castle West Estates No. 3, 142' x 24' STM Sewer @ 5.49% by minor on 10/17/2002 @ 09:49:03 pm ~ for M-E Companies, Inc.

05174

CASTLE WEST ESTATES No. 3

PART OF OUT LOT 193, CITY OF MASSILLON,
STARK COUNTY, OHIO

DATE: APRIL 2002

**DEVELOPER
PROPERTY OWNER**

SMJD PROPERTIES, LTD
4179 GEORGIA ST. N.W.
MASSILLON, OHIO 44646
CONTACT: LARRY KOLICK
PHONE: (330)495-8821

PLAN APPROVALS

APPROVED BY THE CITY OF MASSILLON ENGINEER THIS 28th DAY OF October,
2002.

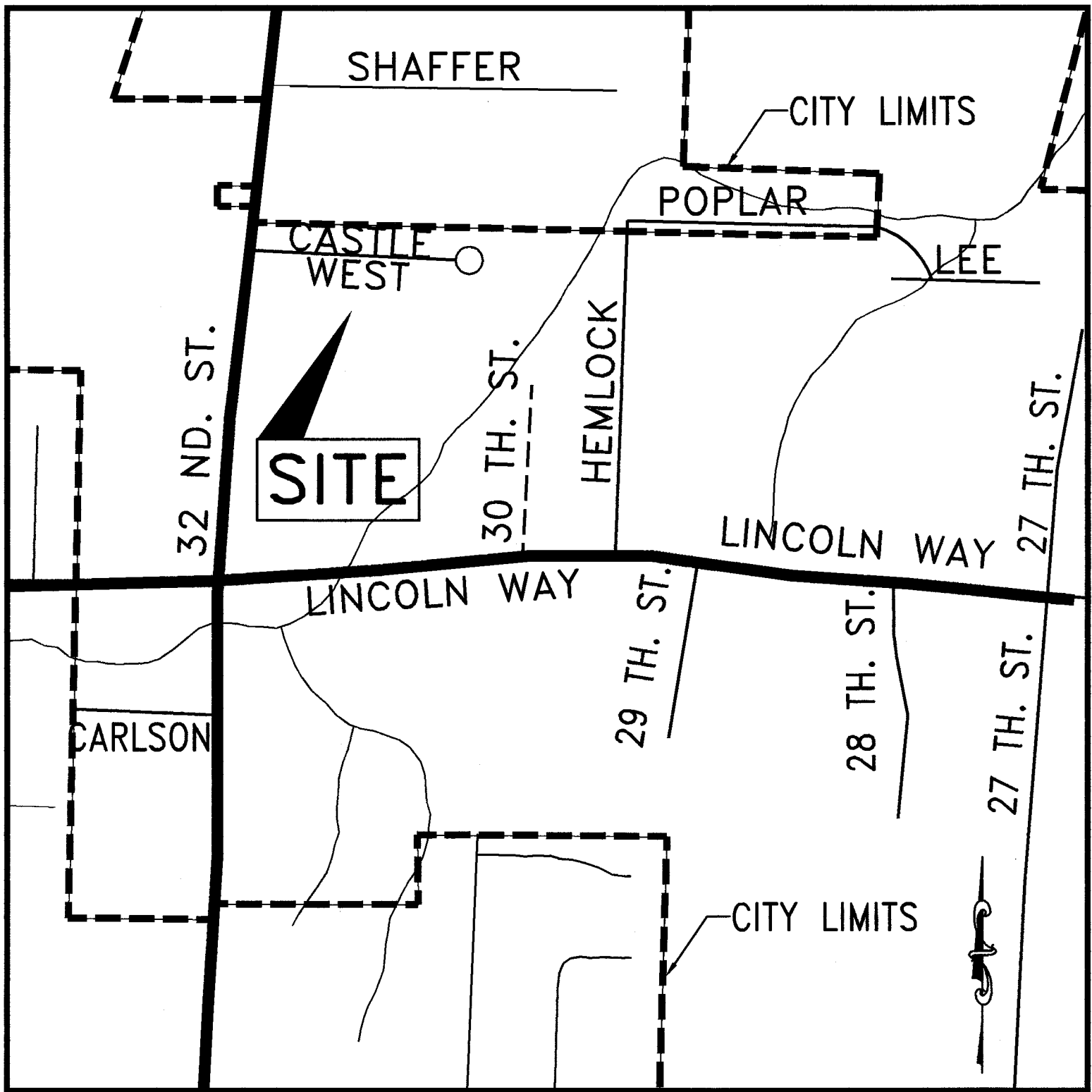
[Signature]
CITY OF MASSILLON ENGINEER

WATERLINE IS APPROVED BY CONSUMERS OHIO WATER COMPANY THIS ____DAY OF
____, 20__.

CONSUMERS OHIO WATER COMPANY

SANITARY SEWER PERMIT-TO-INSTALL HAS BEEN RECEIVED FROM THE OhioEPA THIS
____DAY OF _____, 20__.

WATERLINE PERMIT-TO-INSTALL HAS BEEN RECEIVED FROM THE OhioEPA THIS ____DAY OF
____, 20__.



LOCATION MAP
1"=600'

INDEX OF SHEETS

TITLE.....	1
FINAL PLAT.....	2
PLAN AND PROFILE.....	3
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DETAILS.....	5
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SITE DATA

ZONING DISTRICT: R-2 ONE-FAMILY RESIDENTIAL
TOTAL AREA: 7.30 ACRES
TYPICAL LOT SIZE: 9600 SQ. FT.
NUMBER OF LOTS: 16
SEWAGE DISPOSAL: GRAVITY SANITARY SEWER
WATER SUPPLY: CONSUMERS OHIO WATER COMPANY
DRAINAGE FACILITIES: PROPOSED STORM SEWER W/DETENTION
PAVEMENT: ASPHALTIC CONCRETE WITH CONCRETE
CURB AND GUTTER

ZONE R-2 ONE-FAMILY RESIDENTIAL

MINIMUM LOT AREA = 9,600 SQ. FT.
MINIMUM LOT WIDTH = 80 FT. @ FRONT SETBACK LINE
MINIMUM LOT FRONTAGE = 30 FT. @ FRONT LOT LINE
MINIMUM FRONT YARD DEPTH = 30 FT.
MINIMUM SIDE YARD DEPTH = 8 to 10 FT.
MINIMUM REAR YARD DEPTH = 30 FT.

Prepared By:



Site GROUP
4150 Belden Village, Suite 104
Canton, OH 44718
Contact: DENNIS FULK
330-491-9000 Ext: 23
Fax 330-491-9001

REGISTERED SURVEYOR NO. DATE

Sheets 3, 4, 6 revised per
EPA Comments. Replaced
01/13/03 - JAH

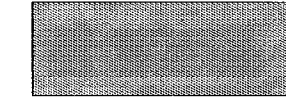
CURVE DATA

EASEMENT AND RESTRICTIONS

AN EASEMENT, TEN FEET WIDE ON THE FRONT AND FIVE FEET WIDE ON THE SIDES AND BACK OF ALL LOTS, AND TEN FEET ON THE EXTERIOR BOUNDARY OF THIS ALLOTMENT IS HEREBY DEDICATED AND RESERVED IN THIS SUBDIVISION TO: COUNTY OF STARK, CITY OF MASSILLON, CONSUMERS OHIO WATER CO., EAST OHIO GAS COMPANY, OHIO EDISON COMPANY, AMERITECH TELEPHONE COMPANY, MASSILLON CABLE COMPANY, AND ANY P.U.C.O. REGULATED UTILITY FOR THE PURPOSE OF CONSTRUCTION, ERECTION, AND/OR MAINTENANCE OF ANY TRANSMISSION LINES, PIPES, CABLES, CONDUITS, BURIED WIRES, SWALES OR OTHER APPURTENANCES FOR THE TRANSMISSION OF POWER, ELECTRIC, COMMUNICATION, STORM WATER, SANITARY SEWER WASTES, WATER, AND/OR ANY FUTURE DEVELOPED PUBLIC UTILITY. EASEMENT GIVES ALL OF THE UTILITIES THE RIGHT TO REMOVE TREES AND LANDSCAPING WITHOUT LIABILITY AS REQUIRED TO MAINTAIN, OPERATE, OR CONSTRUCT THE FACILITIES.

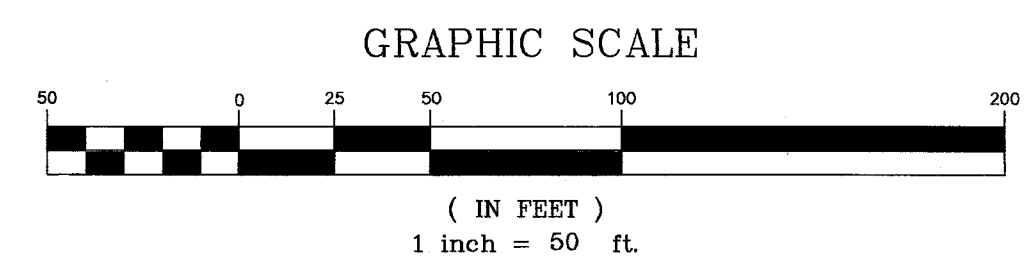
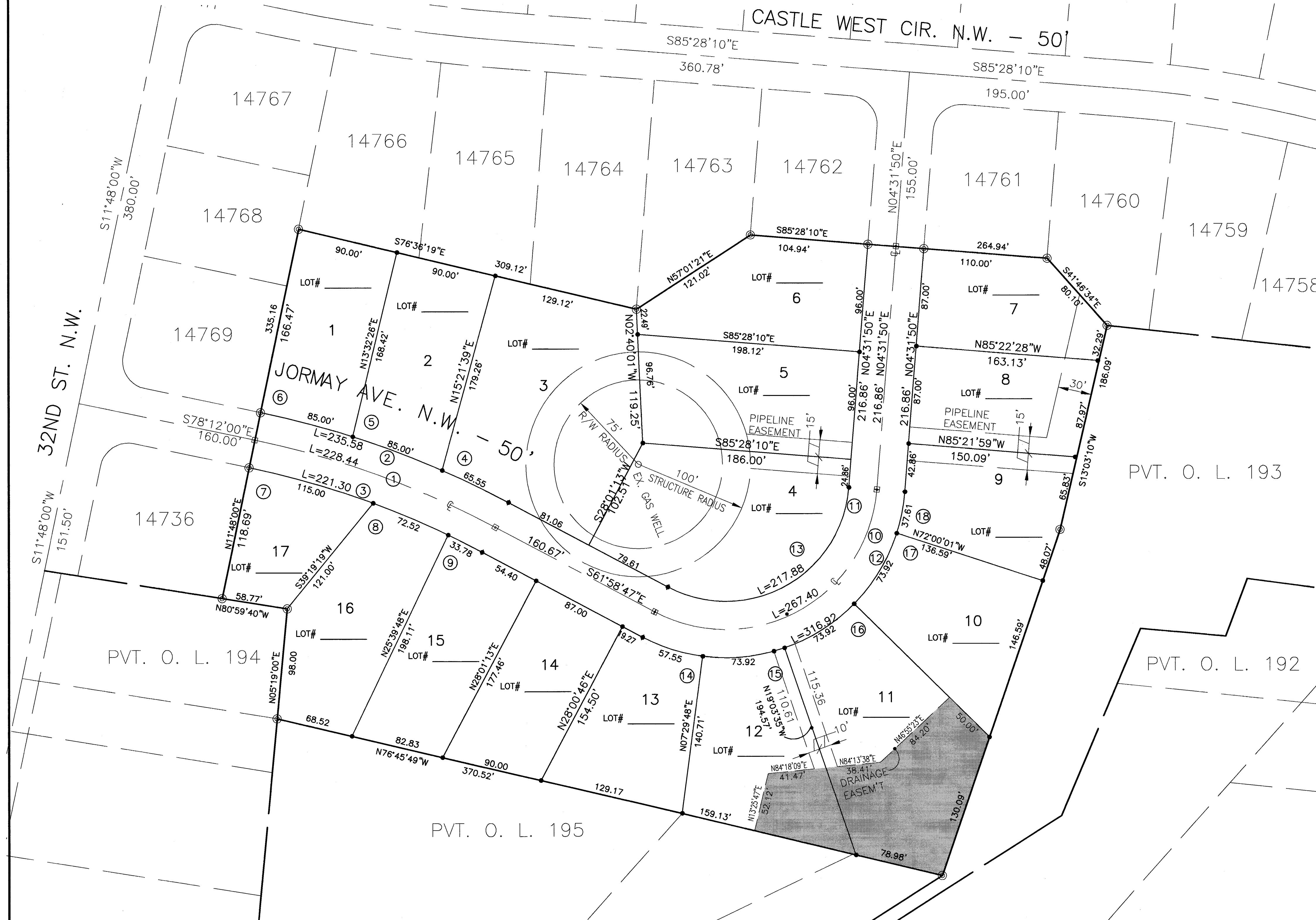
DETENTION BASIN RESTRICTION:

SHADED AREA REPRESENTS RESTRICTED AREA FOR STORM WATER DETENTION. THE RESTRICTED AREA MAY NOT BE BUILT UPON, NOR SHALL GRADING BE ADJUSTED UNTIL SUCH TIME AS THE DETENTION BASIN IS ABANDONED. MAINTENANCE OF DETENTION BASIN (MOWING GRASS) TO BE THE RESPONSIBILITY OF THE LOT OWNERS.



LEGEND:

- MONUMENT BOX SET WITH IRON BAR
- IRON BAR SET AT ALL LOT CORNERS AND CURVE POINTS
- IRON BAR OR PIPE FOUND



REVISIONS

DATE	BY	DESCRIPTION

Site Development Group
4150 Belden Village, Suite 104
Canton, OH 44708
Contact: 900-9000
Fax: 481-9000



MASSILLON, OHIO
CASTLE WEST ESTATES No. 3
PART OF OUT LOT 193

FINAL PLAT

DESIGN	DRAFT	CHECK
DDF	AGW	DDF

JOB NO.: 00-140

DATE: AUGUST 2002

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: N/A

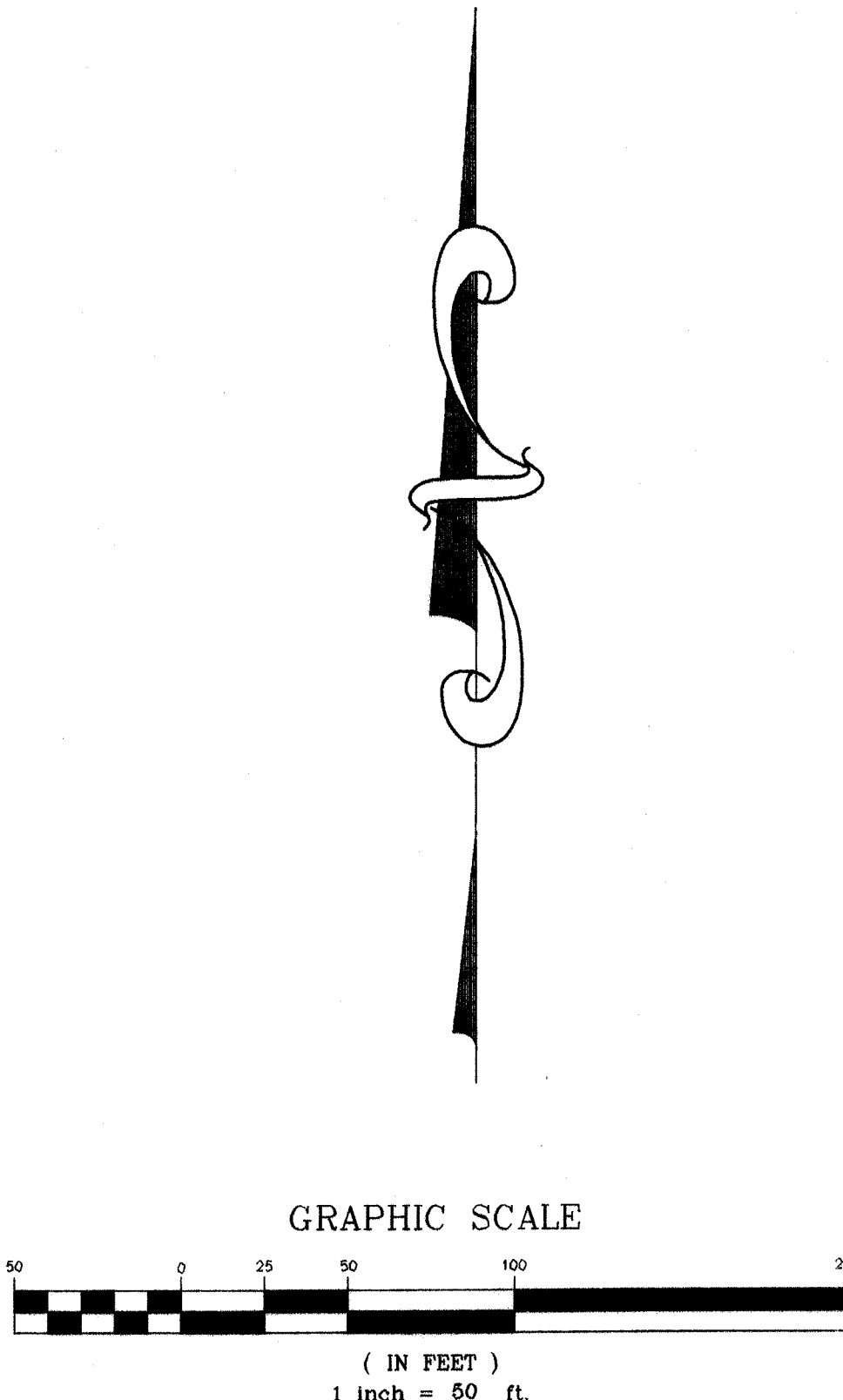
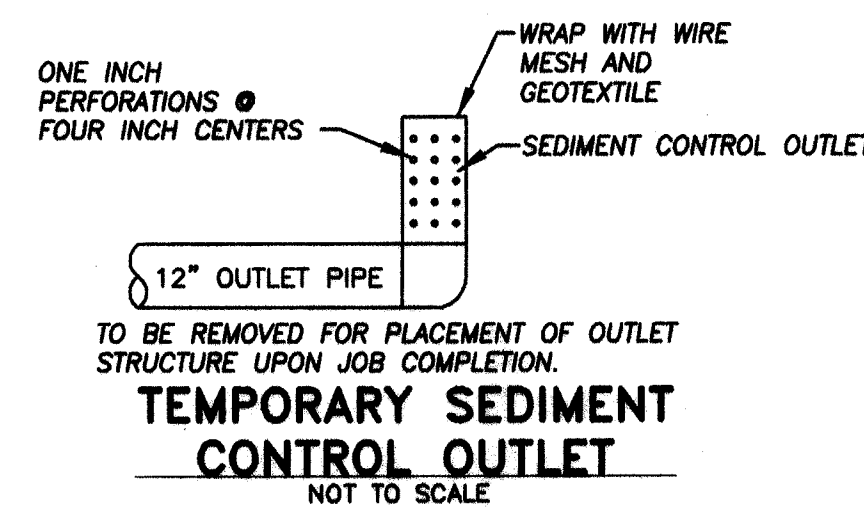
PRINT DATE:
AUGUST 28, 2002

SHEET NO.: 2/7

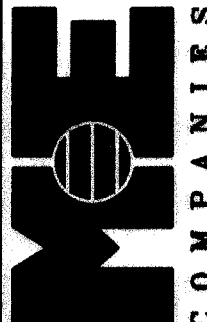


LEGEND:

- DANDY BAG
- BEAVER DAM
- SILT FENCE

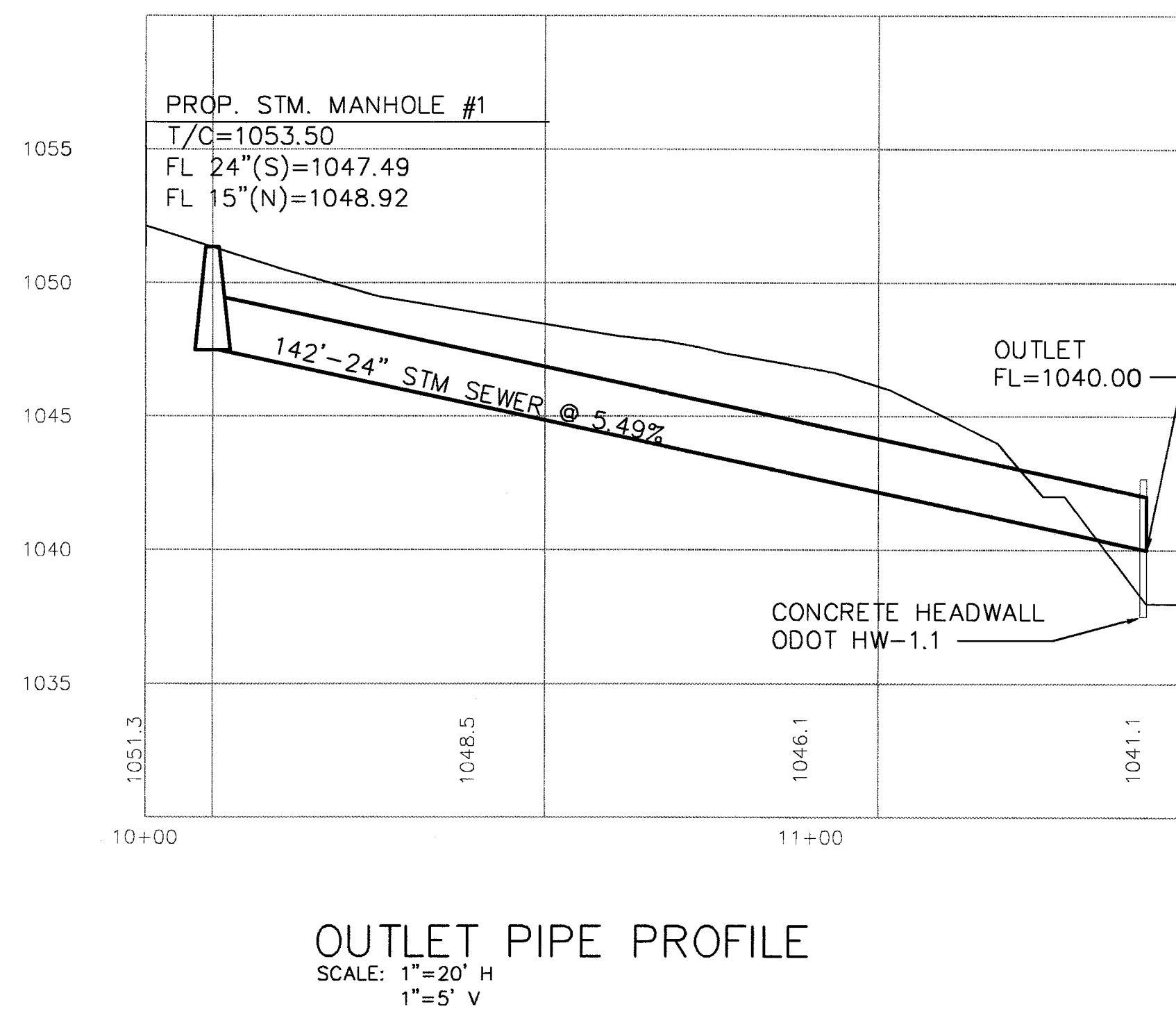
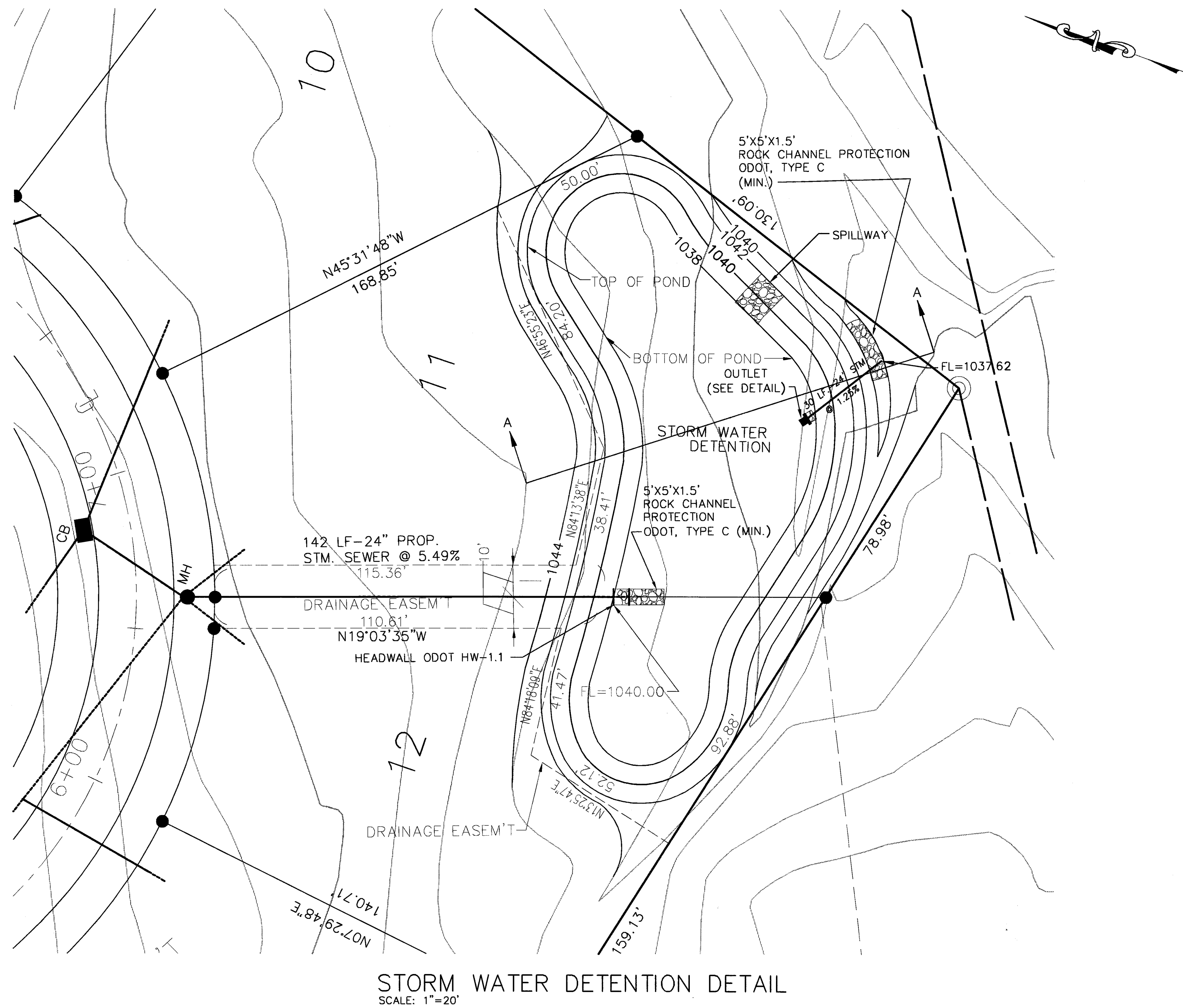
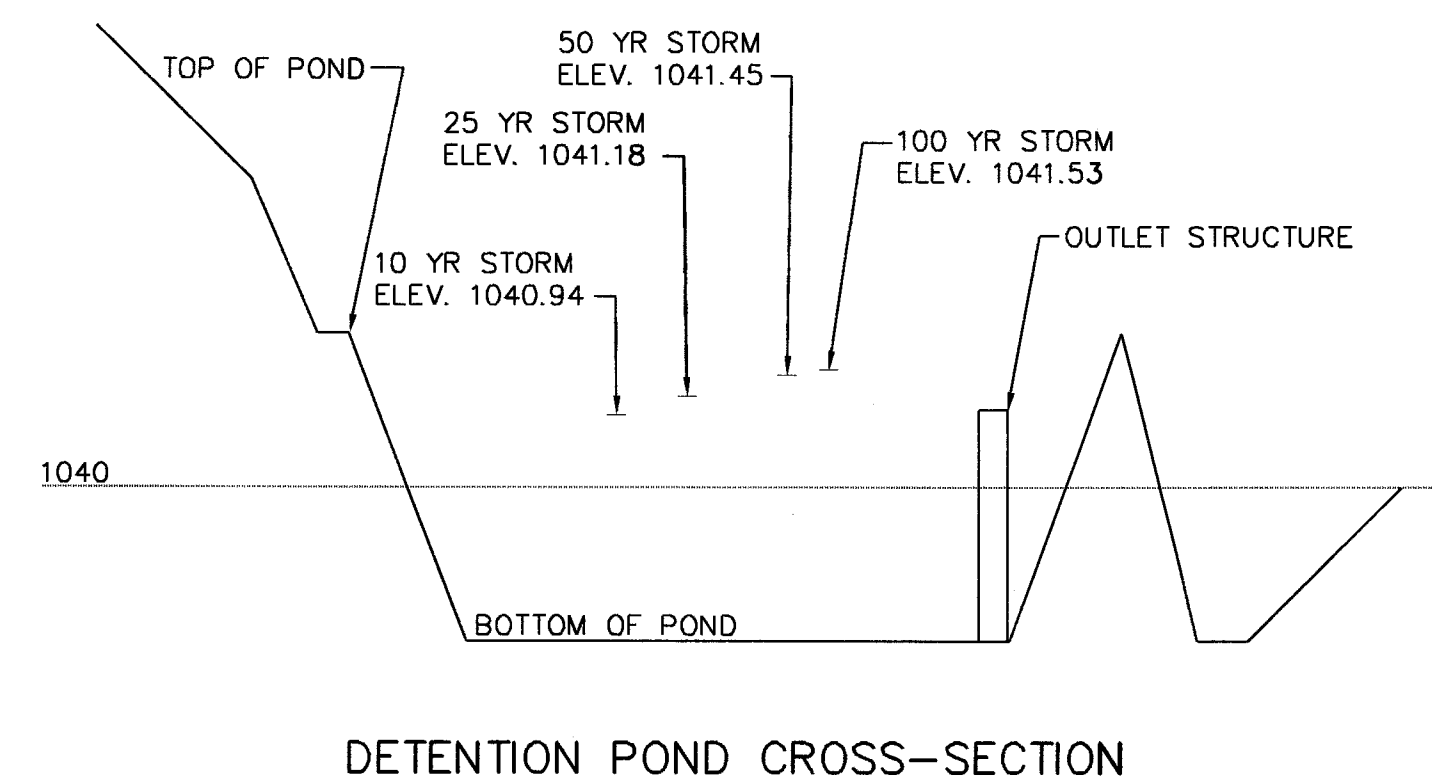
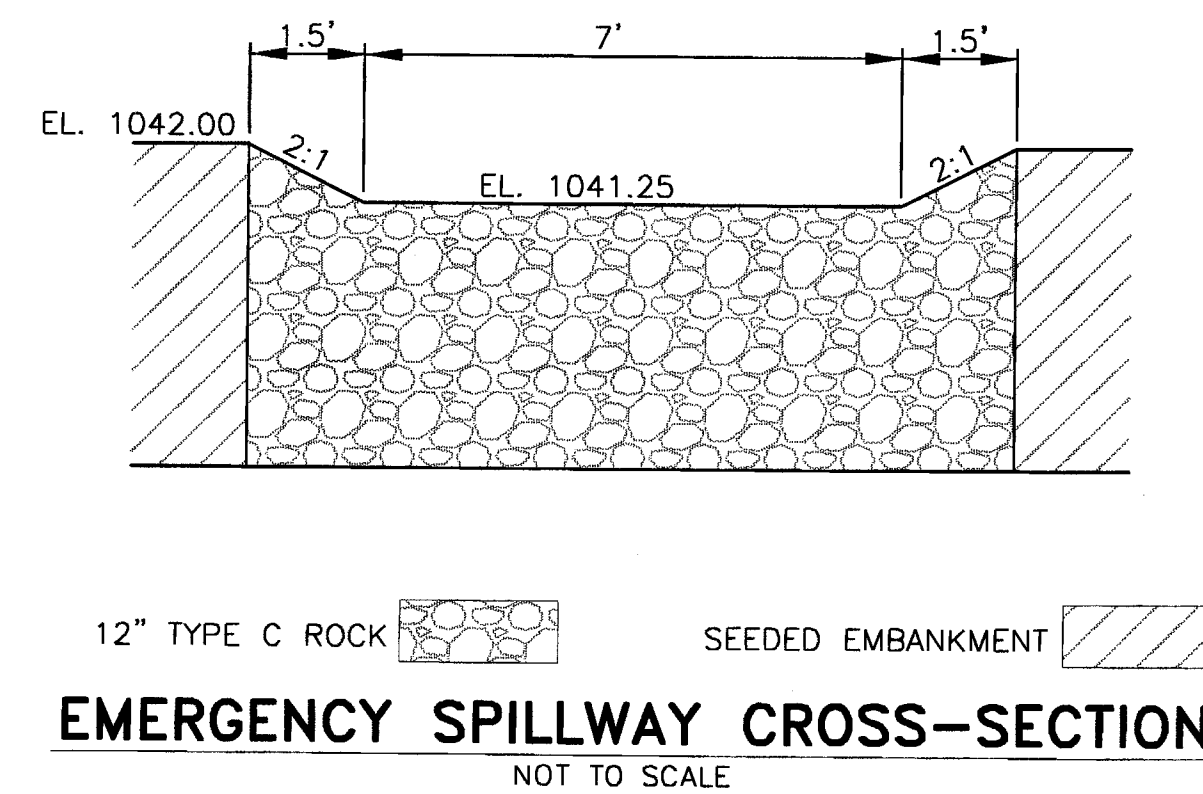
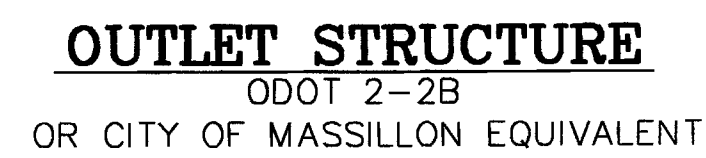


REVISIONS			DATE	BY	DESCRIPTION

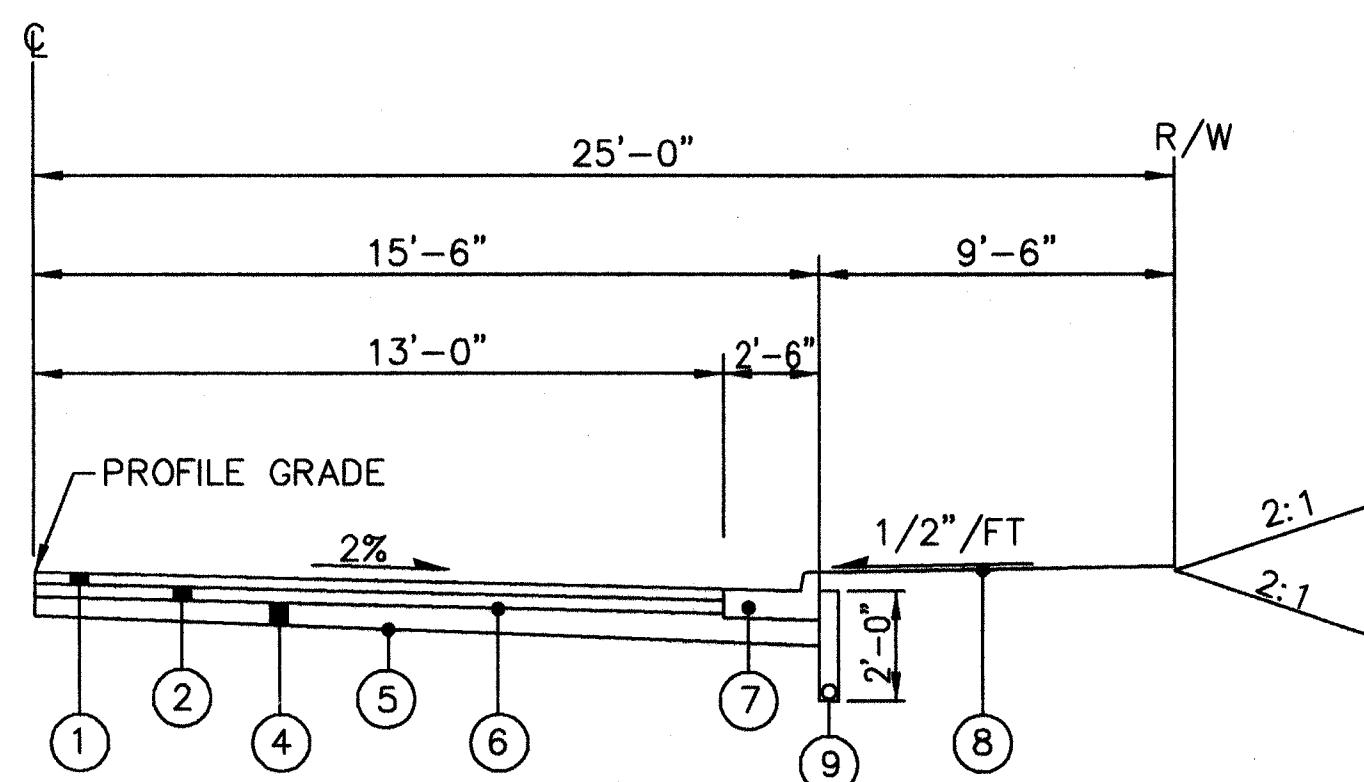
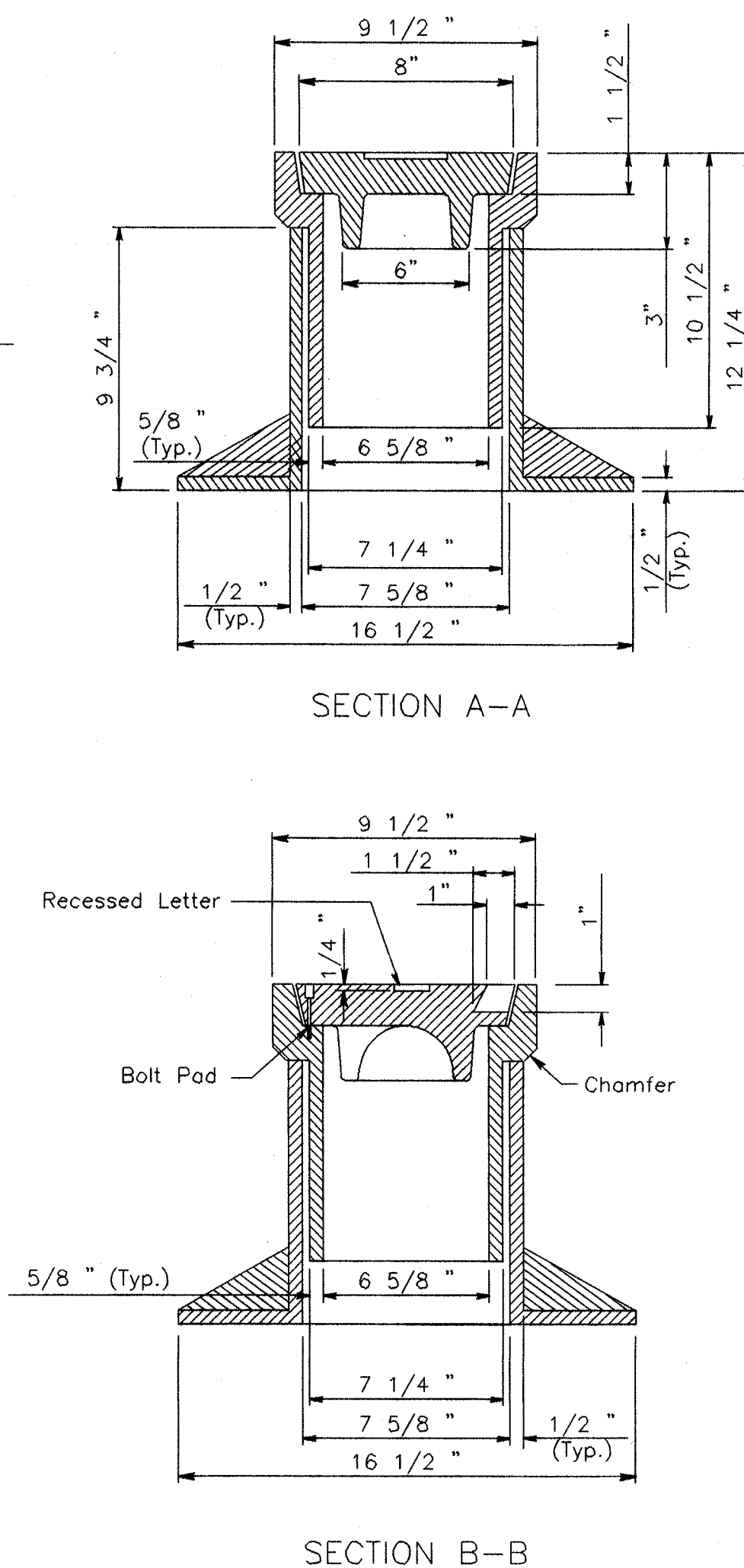
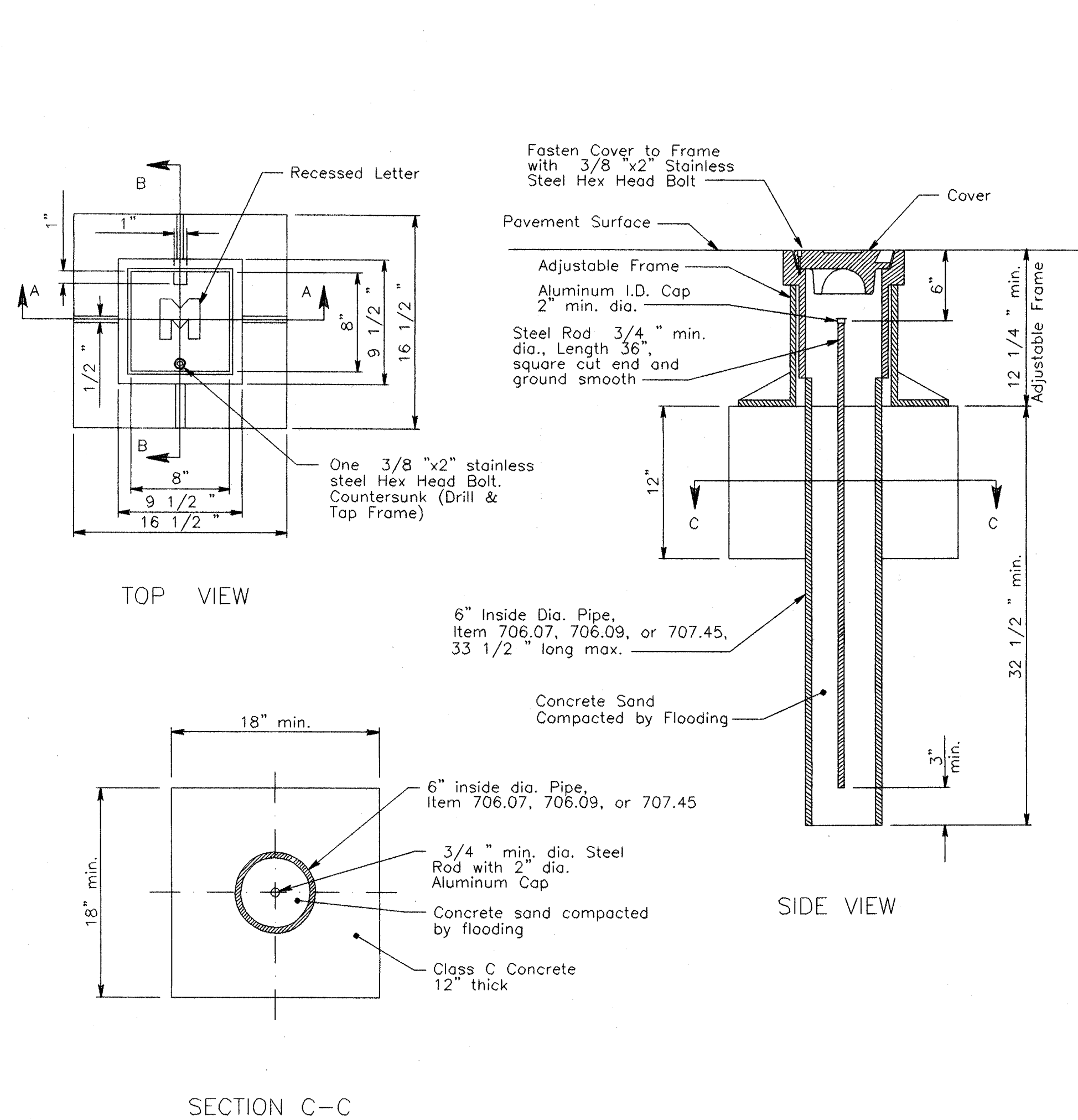
Site Development Group 4150 Beaman Canton, OH 44718 Contact: 9900 1st 330-491-9900 Fax: 330-491-9900			DATE
 COMPANIES			DATE

MASSILLON, OHIO CASTLE WEST ESTATES No. 3 PART OF OUT LOT 193			EROSION CONTROL PLAN
DESIGN	DRAFT	CHECK	
DDF	AGW	DDF	
JOB NO.: 00-140			
DATE: AUGUST 2002			
SCALE:			
HORIZONTAL: 1" = 50'			
VERTICAL: N/A			
PRINT DATE:			
AUGUST 28, 2002			
SHEET NO.:			4/7

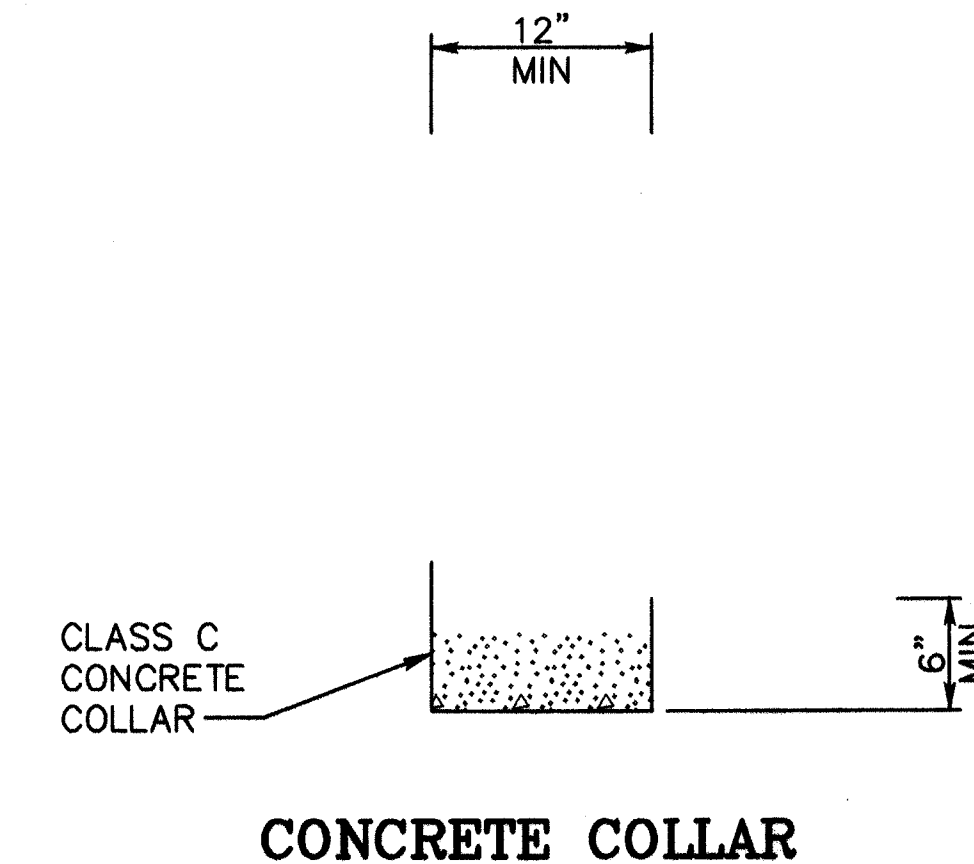
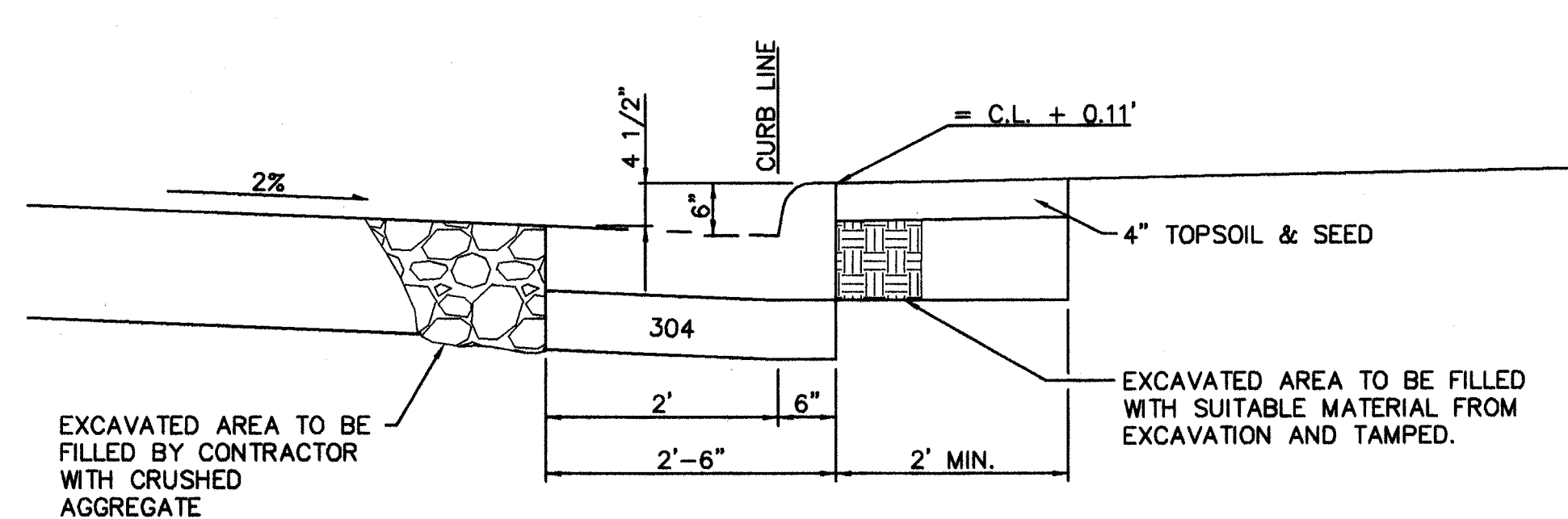
Land Projects 00-140 Castle West Ill.dwg 01/08/2003 10:57:41 am for M-E Companies, Inc.



Site Development Group 4150 Belden Village, Suite 104 Canton, OH 44718 Call 491-9000 FAX 491-9000 330-491-9000 Fax 491-9000		
		
MASSILLON, OHIO		
CASTLE WEST ESTATES No. 3		
PART OF OUT LOT 193		
DETAILS		
DESIGN	DRAFT	CHECK
GCL	AGW	DDF
JOB NO.:	00-140	
DATE:	AUGUST 2002	
SCALE:		
HORIZONTAL:	N/A	
VERTICAL:	N/A	
PRINT DATE:		
AUGUST 28,	2002	
SHEET NO.:	5/7	



- ① ITEM 404 1-1/2" ASPHALT CONCRETE SURFACE
- ② ITEM 301 4" BITUMINOUS AGGREGATE BASE
- ④ ITEM 304 6" AGGREGATE BASE (2-3" COURSES)
- ⑤ ITEM 203 COMPACTED SUBGRADE
- ⑥ ITEM 408 BITUMINOUS PRIME COAT(0.4 GAL/SY)
- ⑦ ITEM 609 MASSILLON STANDARD CURB AND GUTTER, ODOT TYPE 2
- ⑧ ITEM 659 SEEDING AND MULCHING
- ⑨ ITEM 605 4" UNDERDRAIN (INSTALL ONLY IF DIRECTED BY CITY OF MASSILLON ENGINEER DURING CONSTRUCTION & INSPECTION OF SUBGRADE IN CUT AREAS ONLY.)



ESTIMATED QUANTITIES				
ITEM	QTY.	UNIT	DESCRIPTION	
EARTHWORK				
203	3014	S.Y.	SUBGRADE COMPACTION	
203	1500	C.Y.	ROADWAY EXCAVATION NOT INCL. EMBANK. CONST.	
203	650	C.Y.	ROADWAY EMBANKMENT	
207	LUMP	L.S.	EROSION & SEDIMENT CONTROL PER SWP3	
ROADWAY				
301	280	C.Y.	BITUMINOUS AGGREGATE BASE (4")	
304	501	C.Y.	6" AGGREGATE BASE (2-3" COURSES)	
404	105	C.Y.	1-1/2" ASPHALT CONCRETE	
408	1012	GAL.	PRIME COAT (0.4 GAL. PER SQ. YD.)	
409	20	C.Y.	SEAL COAT COVER AGGREGATE (0.008 C.Y./SQ. YD.)	
409	750	GAL.	SEAL COAT COVER BITUMINOUS MATERIAL (0.3 GAL. /SQ. YD.)	
604	5	EACH	STANDARD CITY MONUMENTS (ODOT STANDARD)	
609	1747	L.F.	MASSILLON STANDARD CURB AND GUTTER	
659	1940	S.Y.	SEEDING AND MULCHING (ROADWAY)	
SANITARY SEWER				
603	683	L.F.	6" SANITARY SEWER PIPE (LATERALS)	
603	777	L.F.	8" SANITARY SEWER PIPE-P.V.C.	
604	38	V.F.	(4) SANITARY MANHOLES (COMPLETE)	
STORM SEWER				
601	6	C.Y.	DUMPED ROCK CHANNEL PROTECTION TYPE C	
603	615	L.F.	6" PVC DOWNSPOUT LATERAL	
603	125	L.F.	12" STORM SEWER PIPE TYPE C	
603	40	L.F.	15" STORM SEWER PIPE TYPE C	
603	666	L.F.	24" STORM SEWER PIPE TYPE C	
603	90	L.F.	15" RCP STORM SEWER	
	1	EACH	CONCRETE COLLAR	
604	5	EACH	CATCH BASIN TYPE 3A	
604	2	EACH	STORM MANHOLE (COMPLETE)	
	1		OUTLET STRUCTURE ODOT TYPE 2-2B	
	LUMP	L.S.	DETENTION BASIN (INCL. EXCAVATION, EMBANKMENT, SEEDING & MULCHING	
	1	EACH	HEADWALL ODOT TYPE 2.2	
WATERLINE				
814	977	L.F.	8" DUCTILE IRON PIPE, ANSI PRESSURE CLASS 350 W/POLYWRAP	
814	3	EACH	8"-45' BEND	
814	3	EACH	8"-22-1/2' BEND	
814	1	EACH	FIRE HYDRANT ASSEMBLY, COMPLETE	
814	17	EACH	WATER SERVICE CONNECTION W/CURB BOX (687"/1") BY CONTRACTOR	

REVISIONS

DESCRIPTION

BY

DATE

Site Development Corp.
4150 Belden Village, Suite 104
Canton, OH 44718
Contact: Dennis Zalk
330-491-9000 Fax: 491-9000

ME
COMPANIES

MASSILLON, OHIO
CASTLE WEST ESTATES No. 3
PART OF OUT LOT 183

DETAILS & QUANTITIES

DESIGN DRAFT CHECK
GCL AGW DDF

JOB NO.: 00-140

DATE: AUGUST 2002

SCALE:

HORIZONTAL: N/A
VERTICAL: N/A

PRINT DATE:
AUGUST 28, 2002

SHEET NO.: 6/7

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.
3. EXCAVATION FOR COMBINATION CONCRETE CURB AND GUTTER SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF SAID CURB AND GUTTER.
4. ALL COMBINATION CONCRETE CURB AND GUTTER TO BE CONSTRUCTED BEFORE EXCAVATION IS STARTED, WHEN EXCAVATION DOES NOT EXCEED 1'-0" IN DEPTH.
5. ROADWAY EXCAVATION TO BE 2" TO 4" BELOW FINISHED GRADE OF STREET AT THE DISCRETION OF THE CITY ENGINEER.
6. ALL CATCH BASINS AND MANHOLES TO BE ADJUSTED TO GRADE WHERE NECESSARY.
7. ALL CONCRETE TO BE 1:2; 4-6 BAG MIX. 28 DAY - 3000 PSI COMPRESSIVE STRENGTH, MAX. SLUMP TO BE 4".
8. CONTRACTOR SHALL PAY INSPECTOR(S) AT THE RATE OF TIME AND ONE HALF OF REGULAR RATE AFTER 4:30 P.M. MONDAY THRU FRIDAY. SATURDAYS ALL DAY AT TIME AND ONE HALF.
9. ALL MATERIALS USED WILL BE NEW - NO SALVAGED MATERIAL WILL BE ACCEPTED EXCEPT CASTINGS.
10. IF CONTRACTOR EXCAVATES DEEPER THAN NECESSARY FOR CURB AND GUTTER, CONTRACTOR WILL FURNISH ODOT 304 AGGREGATE AND TAMP BEFORE CURB AND GUTTER IS CONSTRUCTED.
11. IF SUBGRADE IS UNSUITABLE, CONTRACTOR WILL EXCAVATE AND REPLACE SUCH MATERIAL WITH CRUSHED 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% MAXIMUM LABORATORY DRY WEIGHT BEFORE ANY ADDITIONAL LAYERS ARE ADDED. CONTRACTOR WILL BE PAID FOR EXTRA GRAVEL AND EXCAVATION. THIS COMPACTION TO BE DONE BEFORE FORMS ARE PLACED.
12. ALL EXTRA PAY ITEMS WILL HAVE THE APPROVAL OF THE BOARD OF CONTROL BEFORE EXTRA ITEMS ARE INSTALLED.
13. CONTRACTOR TO BACKFILL CURB IMMEDIATELY AFTER CURB HAS BEEN IN PLACE FOR 48 HOURS.
14. CIRCLE CURB WHEN RADIUS IS 175 FT.OR LESS.
15. ALL STORM SEWER PIPES WITHIN PAVEMENT LIMITS OR WITHIN 5' OF B/C LINE SHALL BE REINFORCED CONCRETE PIPE (ODOT 706.02) OR SMOOTH LINED CORRUGATED POLYETHYLENE (ODOT 994) AND SHALL BE TYPE 'B' CONDUIT WITH GRANULAR BACKFILL TO WITHIN 1' OR FINISH GRADE IN ACCORDANCE WITH ODOT 603 CLASS B BEDDING AND GRANULAR BACKFILL; ALL STORM SEWERS NOT WITHIN 5' OF B/C 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 B BEDDING AND SUITABLE SOIL BACKFILL.
16. STORM SEWER LATERALS SHALL BE PROVIDED TO EACH LOT. LATERALS SHALL BE 6" PVC(SDR 21) PIPE (UNLESS OTHERWISE NOTED ON THE PLANS) AND SHALL BE DIRECTLY CONNECTED TO THE STORM SEWER WITH APPROVED TEEOR SADDLE CONNECTION. HEADERS SHALL BE DIRECTLY CONNECTED TO THE STORM SEWER WITH APPROVED TEE OR SADDLE CONNECTION. HEADERS SHALL EXTEND 10' INTO THE LOT OR BEYOND FURTHEST UTILITY LINE - WHICHEVER IS GREATER.
17. 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.
18. MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH MASSILLON CITY STANDARDS (FILE No. S81) AVAILABLE FORM THE CITY ENGINEER.
19. CONTRACTOR SHALL CONTACT CITY OF MASSILLON ENGINEERING DEPT. AT 330-830-1722 AT LEAST 2 DAYS PRIOR TO THE INITIATION OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING.
20. STREET LIGHTING IS REQUIRED. DEVELOPER SHALL CO-ORDINATE WITH ELECTRIC UTILITY COMPANY FOR POLE LOCATION AND TYPE.
21. IF NEEDED, 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.
22. CONTRACTOR SHALL NOTIFY CITY ENGINEER'S OFFICE (330-830-1722) FOR APPROVAL (PROOF-ROLLING) OF SUBGRADE PRIOR TO ANY PAVING.

CONTRACTOR WILL NOTIFY ENGINEER WHEN HE IS IN NEED OF CONSTRUCTION STAKES AND THIS OFICE WILL COMPLY WITHIN A PERIOD OF 48 HOURS.
23. WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY ITEMS ARE TO BE PREFORMED ONLY UNDER THE DIRECTION OF THE CILY 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 ITMES AND SHALL NOT BE PART OF THE BID DOCUMENT.
24. 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.
25. 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

26. SUBGRADE TESTING OR PROOF ROLING 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.
27. "AS-BUILT" DRAWINGS WILL BE SUBMITTED TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT UPON COMPLETION OF CONSTRUCTION.

WATERLINE NOTES

1. ALL WATERLINES AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CONSUMERS OHIO WATER COMPANY SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF ALL WATER MAINS AND THE SERVICE CONNECTIONS FROM ALL 2" WATER MAINS CONSUMER OHIO WATER COMPANY WILL BE RESPONSIBLE FOR CONSTRUCTION OF ALL WATER SERVICE CONNECTIONS FROM 8" WATER MAINS.
3. WATER MAIN MATERIALS SHALL CONFORM TO AWWA C151 FOR DUCTILE CAST IRON PIPE.
4. WATER MAINS SHALL BE INSTALLED AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C600.
5. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651.
6. CONTRACTOR MUST CONSTRUCT ALL WATER LINES AND WATER SERVICE LINES SUCH THAT A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER AND A MINIMUM OF 12" VERTICAL AND 4' HORIZONTAL BETWEEN STORM SEWER IS MAINTAINED.
7. 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.
8. 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.
9. MEGALUG RETAINERS REQUIRED AT ALL FITTINGS.
10. THE PROPOSED FACILITIES WILL MAINTAIN A MINIMUM PRESSURE OF 35 P.S.I. DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
11. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. C.O.W.C. MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES AND HIGHER.
12. A TYPE 1 TRENCH SHALL BE USED AND BCKFILLED WITH EXCAVATED 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.
13. 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.

SANITARY SEWER NOTES

1. ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO MASSILLON CITY ENGINEERING DEPARTMENT SPECIFICATIONS ON EFFECT AT THE TIME OF CONSTRUCTION.
2. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
3. FIRST FLOOR ELEVATION FOR BUILDING AT THE BUILDING SETBACK LINE SHALL BE A MINIMUM OF 6" ABOVE STREET CENTERLINE GRADE.
4. MINIMUM COVER OVER ALL SANITARY SEWER MUST BE 4.0 FEET.
5. ALL SANITARY SEWERS 8" DIAMETER AND LARGER, MUST PASS INTERNAL TELEVISION INSPECTION THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEOTAPE TO THE SANITARY ENGINEERING DEPARTMENT THE VIDEOTAPING PROCEDURE MUST BE IN ACCORDANCE WITH STARK COUNTY SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS.
6. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF MASSILLON ENGINEERING DEPT. (330-830-1722) TO SCHEDULE A PRE-CONSTRUCTION MEETING A MINIMUM OF 72 HOURS NOTICE IS REQUIRED TO SCHEDULE THIS MEETING.
7. SANITARY SEWER MAY BE AN OF THE FOLLOWING MATERIALS, HOWEVER THE COMPLETE SYSTEM MUST BE UNIFORM IN PIPE MATERIAL:

A. V.C.P. EXTRA STRENGTH A.S.T.M. C-700 WITH COMPRESSION TYPE JOINTS IN CONFORMANCE WITH A.S.T.M. C-425.

B. A.B.S. COMPOSITE PIPE A.S.T.M. D-2680 WITH CHEMICALLY WELDED PREMIUM JOINTS ASTM D-2680.

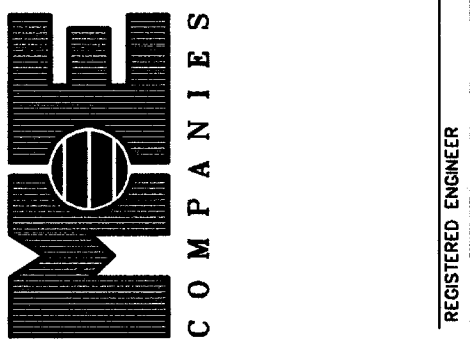
C. P.V.C. PIPE A.S.T.M. D-3034, S.D.R. 35 MAXIMUM WITH GASKETED PREMIUM JOINTS ASTM D-3212.
8. LEAKAGE LIMIT TEST TO BE 100 GAL/IN/MI/DAY.
9. MANHOLE AND TRENCHES SHALL BE PER MASSILLON DETAILS DRAWINGS SANITARY SEWER PIPE TO BE PVC PER ASTM-3034 WITH JOINTS PER ASTM-3212. BEDDING PER ASTM-2321.
10. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO START OF CONSTRUCTION.
11. THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
12. 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.
13. 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.
14. BULKHEADS SHALL BE ERECTED IN EXISTING MANHOLES WERE 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.
15. MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.
16. SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0 % GRADE.
17. FOR NEW SUBDIVISION CONSTRUCTION, SEWER SERVICE LATERALS SHALL EXTEND 12 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 ESAEMENT. FOR OTHER SEWER EXTENSIONS, SEWER SERVICE LATERALS SHALL TERMINATE AT THE RIGHT-OF-WAY LINE OR THE EASEMENT LINE, WHICHEVER IS APPLICABLE.
18. 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.
19. 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.
20. 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.
21. 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.
22. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.
23. ANY MANHOLE DROP ATTACHMENTS SHALL BE "OUTSIDE" TYPE.
24. 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.
25. 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.

REVISIONS

DESCRIPTION		BY	DATE

Site Development Group
4150 Belden Village, Suite 104
Cincinnati, Ohio 45242
Contact: Dennis Fulk
330-491-9000 Ext. 223
Fax: 491-9000

DATE	
NO.	



MASSILLON, OHIO
CASTLE WEST ESTATES No. 3
PART OF OUT LOT 193
GENERAL NOTES

DESIGN	DRAFT	CHECK
GCL	AGW	DDF
JOB NO.: 00-140		
DATE: AUGUST 2002		
SCALE: HORIZONTAL: N/A VERTICAL: N/A		
PRINT DATE: AUGUST 28, 2002		
SHEET NO.: 7/7		