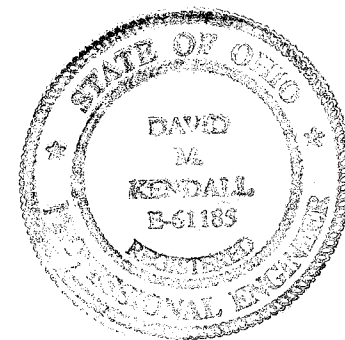


# DANBURY WOODS OF MASSILLON

## IMPROVEMENT PLANS

CITY OF MASSILLON  
COUNTY OF STARK  
STATE OF OHIO

## SANITARY, STORM SEWERS, WATER & PAVING



SUBMITTED BY: D. Michael Kendall DATE 8-28-14  
D. MICHAEL KENDALL REG. ENGINEER NO. 61185

APPROVED BY: THE MASSILLON CITY ENGINEER THIS 19th DAY OF NOVEMBER, 2014  
KEITH A. DYLEWSKI  
KEITH A. DYLEWSKI, P.E., P.S.

ONLY APPROVED SIGNED PLANS BY THE CITY  
ENGINEER ARE TO BE USED FOR CONSTRUCTION

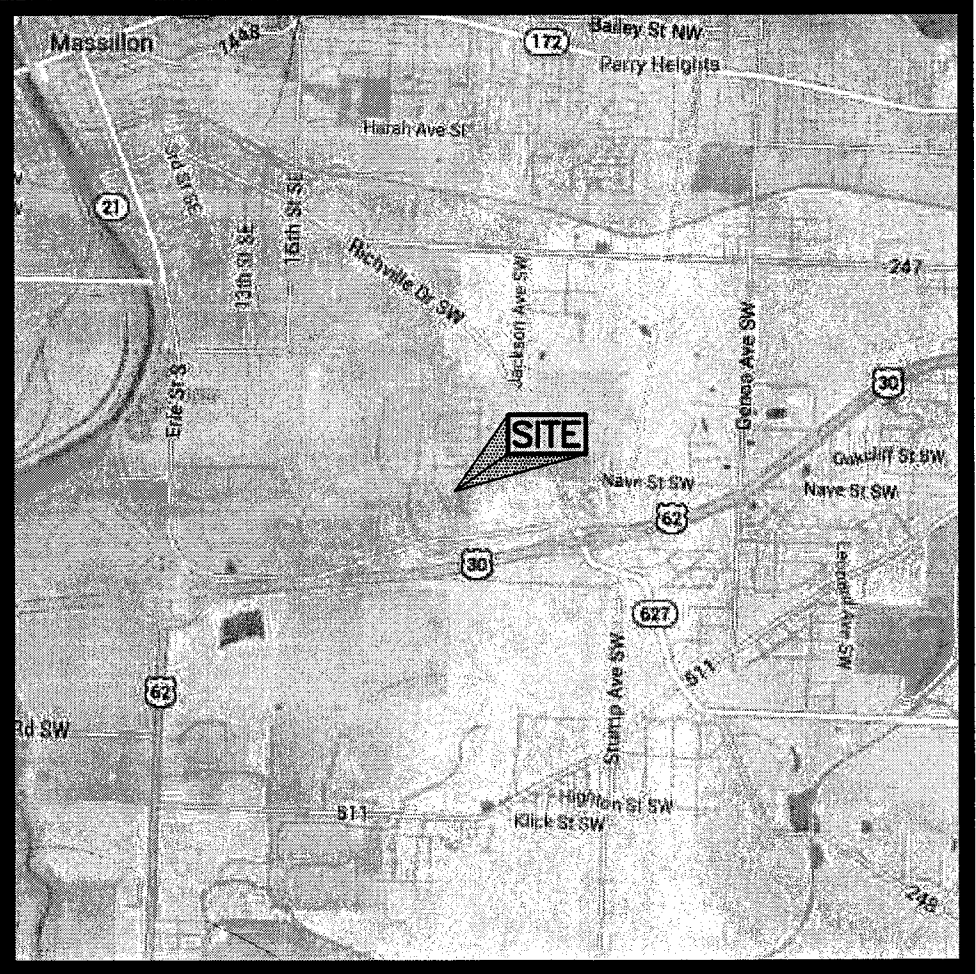
### DESIGN ENGINEER:

**GBC DESIGN, INC.**  
565 White Pond Drive Akron, OH 44320  
Phone 330-836-0228 Fax 330-836-5782

### DEVELOPER:

MASSILLON SENIOR LIVING, LTD.  
1201 SOUTH MAIN STREET  
NORTH CANTON, OH 44720  
PHONE: 330-497-8686  
REP.: WILLIAM J. LEMMON

LEGEND					
MONUMENTS					
●	5/8" CAPPED REBAR TO BE SET, (GBC DESIGN, INC.)				
○	IRON PIN FOUND (TYPE & SIZE AS INDICATED)				
■	MONUMENT ASSEMBLY TO BE SET				
□	MONUMENT FOUND				
★	1" REBAR TO BE SET				
☆	1" REBAR FOUND				
■	DRILL HOLE SET				
■	DRILL HOLE FOUND				
⊗	P.K. NAIL SET				
⊗	P.K. NAIL FOUND				
ABBREVIATIONS					
EX.	EXISTING	F.F.	FINISHED FLOOR	SHT.	SHEET
PROP.	PROPOSED	CONC.	CONCRETE	No.	NUMBER
FND.	FOUND	ASPH.	ASPHALT	R.D.	ROOF DRAIN
MEAS.	MEASURED	M.H.	MANHOLE	LAT.	LATERAL
REC.	RECORD	C.B.	CATCH BASIN		
STM.	STORM	H.W.	HEADWALL		
SAN.	SANITARY	R/W	RIGHT OF WAY		
W.M.	WATER MAIN	C.L.	CENTER LINE		
ELEC.	ELECTRIC	EASE.	EASEMENT		
O.H.W.	OVERHEAD WIRE	INV.	INVERT		
TELE.	TELEPHONE	WIN.	WINDOW		
CBL.	CABLE	STA.	STATION		
BLDG.	BUILDING	LT.	LEFT		
		RT.	RIGHT		
SYMBOLS					
▲	PROPOSED FIRE HYDRANT		●	PROPOSED MANHOLE	
▲	EXISTING FIRE HYDRANT		○	EXISTING MANHOLE	
▼	FIRE DEPARTMENT CONNECTION		■	PROPOSED CATCH BASIN	
▼	PROPOSED VALVE		■	EXISTING CATCH BASIN	
▼	EXISTING VALVE		■	PROPOSED CURB INLET	
▼	PROPOSED LIGHT POLE		■	EXISTING CURB INLET	
▼	EXISTING LIGHT POLE		▲	PROPOSED SIGN	
▼	PROPOSED POWER POLE		▲	EXISTING SIGN	
▼	EXISTING POWER POLE				
LINE TYPES					
—C—			PROPOSED CABLE LINE		
—E—			EXISTING CABLE LINE		
—T—			PROPOSED ELECTRIC LINE		
—T—			EXISTING ELECTRIC LINE		
—G—			PROPOSED TELEPHONE LINE		
—G—			EXISTING TELEPHONE LINE		
—W—			PROPOSED GAS LINE		
—W—			EXISTING GAS LINE		
—WS—			PROPOSED WATER MAIN		
—WS—			PROPOSED WATER SERVICE		
—DW—			PROPOSED DOMESTIC SVC.		
—FW—			PROPOSED FIRE WATER SVC.		
—W—			EXISTING WATER MAIN		
—W—			EXISTING WATER SERVICE		
			—SAN—		
			—LAT—		
			—FM—		
			—SAN—		
			—LAT—		
			—FM—		
			—ST—		
			—RD—		
			—ST—		
			—RD—		
			—X—		



LOCATION MAP

SCALE: 1" = 3000'

ALL SITE PREPARATION, EARTHWORK, PAVEMENT AND CONSTRUCTION CONSIDERATIONS AS DETAILED IN THE FOLLOWING REPORT ARE TO BE FOLLOWED BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT PRICE.

SUBSURFACE EXPLORATION REPORT  
DANBURY WOODS SENIOR LIVING CENTER  
2550 UNIVERSITY DRIVE, S.E.  
MASSILLON, OHIO

ST&I PROJECT NO. G14-9866  
DATED MAY 2, 2014

AS PREPARED BY:  
SUMMIT TESTING & INSPECTION COMPANY  
910 WHITE POND DRIVE  
AKRON, OH 44320  
PHONE: (330) 869-6606

**JOB BENCH MARK 1**  
STARK COUNTY DISK PER088  
ELEVATION = 1082.31'

**JOB BENCH MARK 2**  
INV. 8" W. SAN. M.H. C  
ELEVATION = 1044.90'

INDEX		SHEET No.
TITLE		
TITLE SHEET		SD1.00
GENERAL NOTES		SD1.01
DEMOLITION PLAN		SD2.00
GENERAL PLAN		SD3.00
SITE PLAN		SD3.01
UTILITY PLAN		SD4.00
GRADING PLAN		SD5.00
SITE DETAILS		SD6.00 - SD6.02
DETAILS "A" & "B"		SD6.03
SWPPP		SD7.00 & SD7.01
SWPPP DETAILS		SD7.02 - SD7.05
LANDSCAPING PLAN		L1.00
LANDSCAPING DETAILS		L1.01
STRUCTURAL NOTES		S001

REVISIONS

**GBC DESIGN, INC.**  
565 White Pond Drive Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782

**MASSILLON SENIOR LIVING, LTD.**  
1201 S. MAIN ST.  
NORTH CANTON, OH 44720

**DANBURY WOODS OF MASSILLON**  
2550 UNIVERSITY DRIVE S.E.  
MASSILLON, OHIO 44646  
TITLE SHEET

DRAWN BY:  
J.D.D.

DATE:  
6/20/2014

PROJECT NO.  
46178

DRAWING NO.  
SD1.00



1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITY TIE-INS AS SHOWN ON THE SITE PLANS (SANITARY, WATER, GAS, ELECTRIC, PHONE, ETC.) PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO CALL 800-836-0228, WITH ANY CONCERNS PRIOR TO THE START OF CONSTRUCTION.
2. THE LOCATION OF TIE IN POINTS FOR UTILITY SERVICES ARE SHOWN FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING THE APPROVAL OF ALL CONNECTION POINTS WITH THE UTILITY COMPANY IN QUESTION. THE COST FOR ALL TRENCHING, CONDUIT, AND EQUIPMENT NEEDED TO PROVIDE SERVICE, INCLUDING THE UPSIZING OF ANY EXISTING EQUIPMENT OR INSTALLATION OF NEW SERVICE (SEE MEP PLAN FOR EXACT LOCATION & SIZE), SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE CONTRACT PRICE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY CURB, PAVEMENT OR EXISTING UTILITIES OR OTHER ITEMS DISTURBED BY CONSTRUCTION.

1. STORM SEWERS MAY BE:
  - A. PVC (S.D.R. 35) IN ACCORDANCE WITH ASTM D-3034.
  - B. HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR PER O.D.T.O. ITEM 707.3 UNLESS OTHERWISE NOTED. PIPE SHALL BE INSTALLED BACKFILLED AS PER THE CITY OF MASSILLON STANDARDS.
2. MANHOLES, INLETS AND OTHER APPURTENANCES SHALL BE CONSTRUCTED AS PER STANDARD DRAWINGS NOTED.
3. STORM RUNS 29 TO 15 AND 36 TO 37 SHALL BE PVC (S.D.R. 26)

1. ALL WATER MAIN & WATER SERVICE SHALL BE IN ACCORDANCE WITH AQUA OHIO WATER RULES & REGULATIONS.
2. WATER MAIN MATERIALS SHALL CONFORM TO AWWA C151 FOR DUCTILE CAST IRON PIPE AND AWWA C900 FOR PVC PIPE.
3. WATER MAINS SHALL BE INSTALLED AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C600.
4. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651.
5. THE PROPOSED FACILITIES WILL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
6. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE WATER SYSTEM MAY GRANT SPECIAL PERMISSION FOR BUILDINGS SIX STORIES AND HIGHER.
7. ALL DUCTILE PIPE AND FITTINGS TO BE ENCLOSED IN POLYWRAP.
8. WATER SERVICE SIZE & LOCATIONS SHALL BE PER THE ARCHITECTURAL PLANS.
9. A TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER.
10. AN 18-INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER AT ALL CROSSINGS.
11. A FOUR FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
12. AN 18-INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS.
13. CONTRACTOR SHALL HAVE EACH HYDRANT SURVEYED AFTER INSTALLATION TO VERIFY THAT IT IS SET ACCURATELY AS PER THE PLAN WITH REGARD TO LOCATION AND ELEVATION. THE CONTRACTOR SHALL FURNISH A LETTER TO AQUA OHIO DETAILING THEIR FINDINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ANY HYDRANTS THAT ARE NOT INSTALLED CORRECTLY.
14. CONTRACTOR SHALL INSTALL NEW DOMESTIC WATER SERVICE PER AQUA OHIO SPECIFICATION & REQUIREMENTS, SEE MEP PLAN FOR EXACT LOCATION & SIZE.
15. CONTRACTOR SHALL INSTALL NEW FIRE SERVICE PER AQUA OHIO SPECIFICATIONS & REQUIREMENTS, SEE MEP PLAN FOR EXACT LOCATION & SIZE.
16. CONTRACTOR SHALL INSTALL NEW FIRE DEPARTMENT CONNECTION PER AQUA OHIO & CITY OF MASSILLON SPECIFICATIONS & REQUIREMENTS, SEE MEP PLAN FOR EXACT LOCATION & SIZE.
17. CONTRACTOR SHALL INSTALL NEW PVP PER AQUA OHIO & CITY OF MASSILLON SPECIFICATIONS & REQUIREMENTS, SEE MEP PLAN FOR EXACT LOCATION & SIZE.
18. CONTRACT PRICE SHALL INCLUDE ANY NECESSARY FITTINGS FOR INSTALLATION OF WATER SERVICES.
19. CONTRACTOR SHALL DEFLECT OR INSTALL BENDS ON EXISTING OR PROPOSED WATER MAINS/SERVICES AS NECESSARY TO MAINTAIN 18" VERTICAL CLEARANCE W/ STORM & SANITARY SEWERS. COST OF ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE.

1. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO START OF CONSTRUCTION.
2. 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.
3. ALL SANITARY SEWER LATERALS SHALL BE LAID AT NO LESS THAN 1% GRADE.
4. ALL SANITARY SEWER LATERALS SHALL BE EXTENDED TO NOT LESS THAN FIVE FEET FROM BUILDING.
5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING SEWERAGE SYSTEM RESULTING FROM NONCONFORMANCE WITH THE CITY OF MASSILLON STANDARDS OR GENERAL NEGLIGENCE.
6. 18" GRADE ADJUSTMENT OF MANHOLES PERMITTED WITH GRADE RINGS. A MAXIMUM OF 2 FEET OF BRICK IS PERMITTED IF NECESSARY. MAXIMUM ADJUSTMENT NOT TO EXCEED 18".
7. WHERE INLET AND OUTLET PIPES CONNECT TO MANHOLES, A FLEXIBLE WATER-TIGHT JOINT AS APPROVED BY THE CITY OF MASSILLON IS REQUIRED.
8. THE SANITARY SEWER MATERIALS SHALL CONSIST OF PVC MEETING ASTM D-3034, JOINTS CONFORMING TO ASTM D-3212. ALL SANITARY LATERALS SHALL BE SD35 SANITARY SEWER PIPE.
9. THE OWNER (CONTRACTOR) MUST ALERT THE UTILITIES PROTECTION SERVICES (1-800-362-2764) AT LEAST 48 HOURS BEFORE ANY EXCAVATING HAS BEGUN.
10. ALL SEWER RUN DISTANCES GIVEN ARE FROM CENTERLINE TO CENTERLINE OF MANHOLES. ALL PIPE INVERT ELEVATIONS GIVEN AT MANHOLES ARE AT CENTERLINE OF MANHOLE. SEWER GRADES ARE ESTABLISHED FROM CENTERLINE OF MANHOLE AND CARRIED THROUGH MANHOLE INVERT TO ASSURE FLOW THROUGH MANHOLE.
11. ALL UNDERGROUND LINES ENCOUNTERED BY CONSTRUCTION OF SANITARY SYSTEM ARE TO BE COMPLETELY RESTORED AT THE EXPENSE OF THE CONTRACTOR.
12. COST OF WYES AND STUBS TO BE INCLUDED IN PRICE BID PER LINEAR FOOT OF SANITARY SEWER.
13. COST OF ANY SHEETING OR DEWATERING NECESSARY FOR INSTALLATION OF SANITARY SEWER SHALL BE INCLUDED IN PRICE BID PER LINEAR FOOT OF RESPECTIVE ITEMS. ALSO ANY FOUNDATION SLAG REQUIRED.
14. PRIOR TO CONNECTING TO THE EXISTING SANITARY LATERAL, LATERAL SHALL BE WELDED TO THE LATERAL. LATERAL SHALL BE SUBMITTED TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT TO BE REVIEWED AND FOUND FREE OF DEFECTS.
15. COST OF REPLICATING OR REPAIRING DEFECTS TO EXISTING SANITARY LATERAL SHALL BE AT THE COST OF THE CONTRACTOR.
16. MINIMUM COVER OVER SANITARY SEWER SHALL BE 4 FT.
17. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.
18. MANHOLE TOP OF CASTING ELEVATIONS MAY REQUIRE ADJUSTMENT DURING SITE GRADING. MANHOLE COVERS MAY NOT BE BURED. 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.
19. CONTRACTOR SHALL INSTALL NEW MANHOLE AND SANITARY LATERAL/LATERALS AND GREASE TRAP. SEE MEP PLANS FOR EXACT LOCATION, SIZE, AND ELEVATION. COST OF ABOVE WORK SHALL BE INCLUDED IN CONTRACT PRICE.

1.	ALL CATCH BASINS AND MANHOLES TO BE ADJUSTED TO GRADE WHERE NECESSARY	THE CITY OF MASSILLON DIVISION OF ENGINEERING STANDARDS AND SUPPLEMENTED BY THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (D.O.T.) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT EDITION).
2.	CONTRACTOR TO BACKFILL CURB IMMEDIATELY AFTER CURB HAS BEEN IN PLACE FOR 48 HOURS.	16. ALL PROPOSED TRENCHES SHALL BE BACKFILLED WITH SELECT MATERIALS IN ACCORDANCE WITH THE PLANS AND GEOTECHNICAL REPORT.
3.	ALL MATERIALS USED WILL BE NEW - NO SALVAGED MATERIAL WILL BE ACCEPTED.	17. FERTILIZING, SEEDING AND MULCHING FOR RESTORATION OF DISTURBED AREAS BETWEEN THE PAVEMENT EDGES AND THE RIGHT OF WAY LINE SHALL CONFORM TO SECTIONS 655.08 AND 655.09 AS SPECIFIC TO CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT ADDITION).
4.	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. ALL SUBGRADE SHALL TO BE COMPACTED TO 98% LABORATORY DRY WEIGHT BEFORE ADDITIONAL LAYERS ARE ADDED. THIS COMPACTION TO BE DONE BEFORE FORMS ARE PLACED.	18. ALL DISTURBED SIGNS, GUARD RAILS, MAIL AND/OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE CITY OF MASSILLON ENGINEER.
5.	ALL STORM SEWER SHALL BE SMOOTH LINED CORRUGATED POLYETHYLENE (D.O.D.T. 707.33 OR REINFORCED CONCRETE PIPE (D.O.D.T. 706.02) AND SHALL BE TYPE "C" CONDUIT IN ACCORDANCE WITH D.O.D.T. 603 WITH CLASS "C" BEDDING AND SUITABLE BACKFILL.	19. ALL DISTURBED AND/OR DAMAGED STORM SEWER PIPES, STORM SEWER APPURTENANCES, PAVEMENTS, BERMS AND DITCHES SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE CITY OF MASSILLON ENGINEER.
6.	ALL ROOF DRAIN COLLECTORS SHALL BE 8" DIA. PVC SDR-35 AND HAVE A MINIMUM SLOPE OF 0.50%. THE CONTRACTOR SHALL CONNECT DOWNSPOUTS AND ANY ROOF DRAINS FROM THE BUILDING WITH A 4" DIAMETER PVC SDR-35 AT 1.00% MIN SLOPE. A SCREW TYPE CLEANOUT SHALL BE PROVIDED AT ALL BENDS AND END OF PIPES. DOWNSPOUTS TO BE CONNECTED TO A 6" PVC PIPE WITH RECTANGULAR TO CIRCULAR TRANSITION FITTING INSTALLED AT GRADE.	20. CALL OHIO UTILITIES PROTECTION SERVICE BEFORE DIGGING (1-800-362-2764).
7.	MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH PLAN DETAILS OR APPLICABLE D.O.D.T. STANDARD DRAWINGS.	21. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL MEET RAINWATER RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT AND LAND DEVELOPMENT AND URBAN STREAM PROTECTION, THIRD EDITION 2006.
8.	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.	22. THE CONTRACTOR IS REQUIRED TO HAVE ALL UTILITY CROSSING CONDUITS (ELECTRIC, TELEPHONE, CABLE TV INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT).
9.	WHEREVER UNSTABLE SOIL SUBGRADE CONDITIONS ARE ENCOUNTERED THAT ARE UNSUITABLE PER D.O.D.T. 203 SPECIFICATIONS AND RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER, ADDITIONAL EXCAVATION AND SUBSEQUENT BACKFILLING SHALL BE DONE BY THE CONTRACTOR UNTIL SUCH CONDITIONS ARE CORRECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. THIS SHALL BE INCLUDED IN THE CONTRACT PRICE.	23. ALL POINTS OF CONNECTION OF PROPOSED IMPROVEMENTS TO EXISTING IMPROVEMENTS SHALL BE UNCOVERED AND ELEVATIONS VERIFIED BY FIELD CHECK BEFORE ANY CONSTRUCTION BEGINS.
10.	SUBGRADE TESTING OR PROOF ROLLING MUST BE WITNESSED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF THE PAVEMENT SUBBASE MATERIAL.	24. WHERE THE PLANS PROVIDE FOR THE PROPOSED SEWER TO BE CONNECTED TO OR CROSS EITHER OVER OR UNDER AN EXISTING CONDUIT OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL, BOTH LINE AND GRADE, BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. THERE WILL BE NO EXTRA PAYMENT FOR THE ABOVE WORK.
11.	AS-BUILT DRAWINGS ARE REQUIRED AND SHALL BE SUBMITTED TO THE CITY ENGINEER UPON COMPLETION OF THE PROJECT.	25. EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH D.O.D.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS (LASTS EDITION ITEM 203).
12.	ALL ROAD SURFACES, EASEMENT OR RIGHT-OF-WAY DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE BEFORE CONSTRUCTION CONDITION OR BETTER WHEN ORDERED BY THE CITY ENGINEER.	26. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHATEVER BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR ENCOUNTERS UTILITIES OTHER THAN THOSE LOCATIONS SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE THE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
13.	CONTRACT PRICE FOR ALL CONSTRUCTION IS COMPLETE IN PLACE REGARDLESS OF SOIL OR ROCK CONDITIONS.	27. PRICES BID SHALL INCLUDE ANY SHEETING OR Dewatering THAT MAY BE REQUIRED.
14.	THE LOCATIONS OF ALL GAS LINES TO BE DETERMINED BY THE CONTRACTOR. EXISTING APPURTENANCES SUCH AS UTILITY POLES AND VALVE BOXES ETC. ARE TO BE HELD BY THE CONTRACTOR DURING CONSTRUCTION.	

**GBC** DESIGN, INC.  
5565 White Pond Drive Akron, OH 44320-1123

5655 White Pond Drive Akron, OH 44320-1123  
Phone 330-836-0228 Fax 330-836-5782

1201 S. MAIN ST.

## 646

## UTILITY NOTES

DRAWN BY:  
J.D.D.

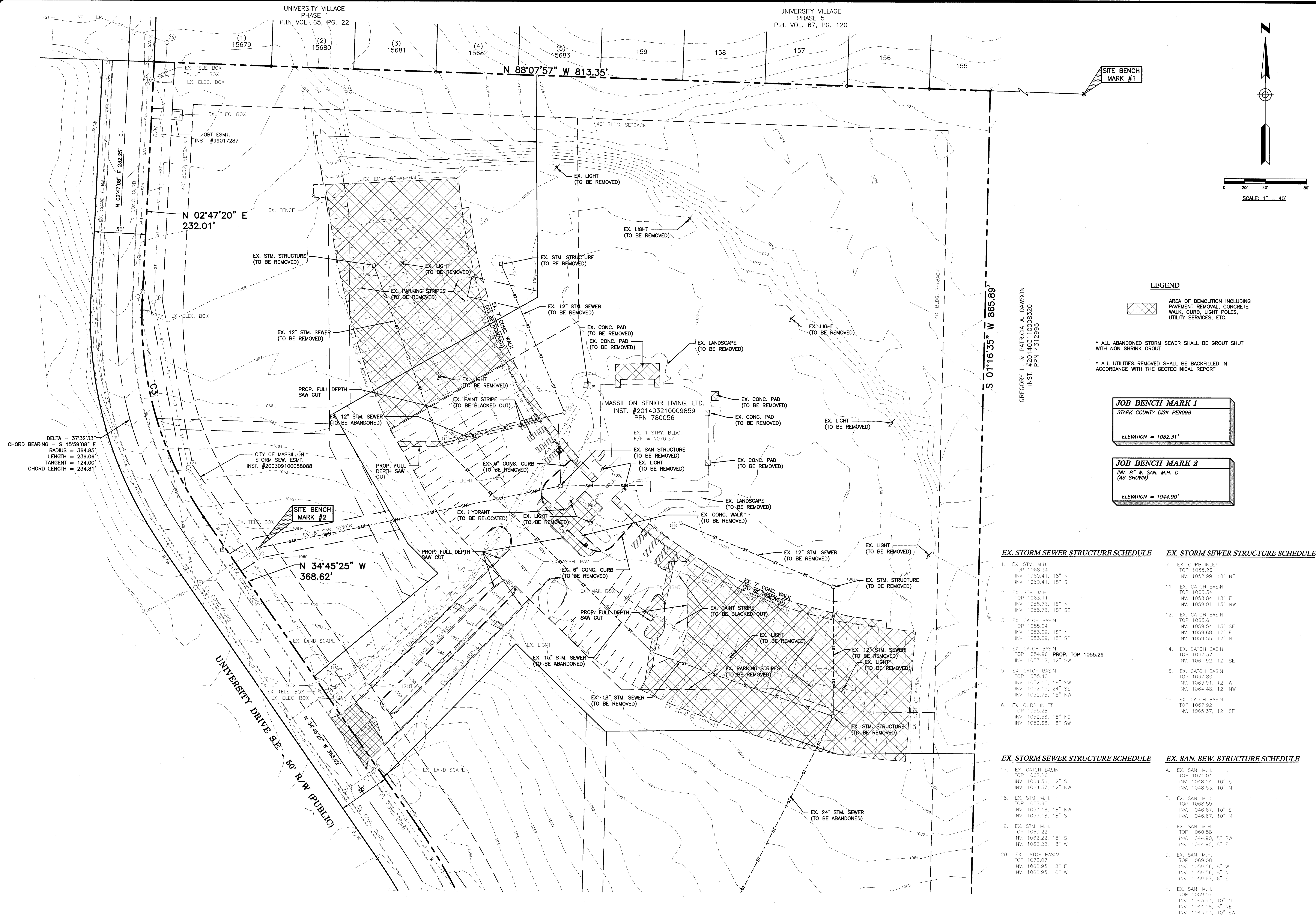
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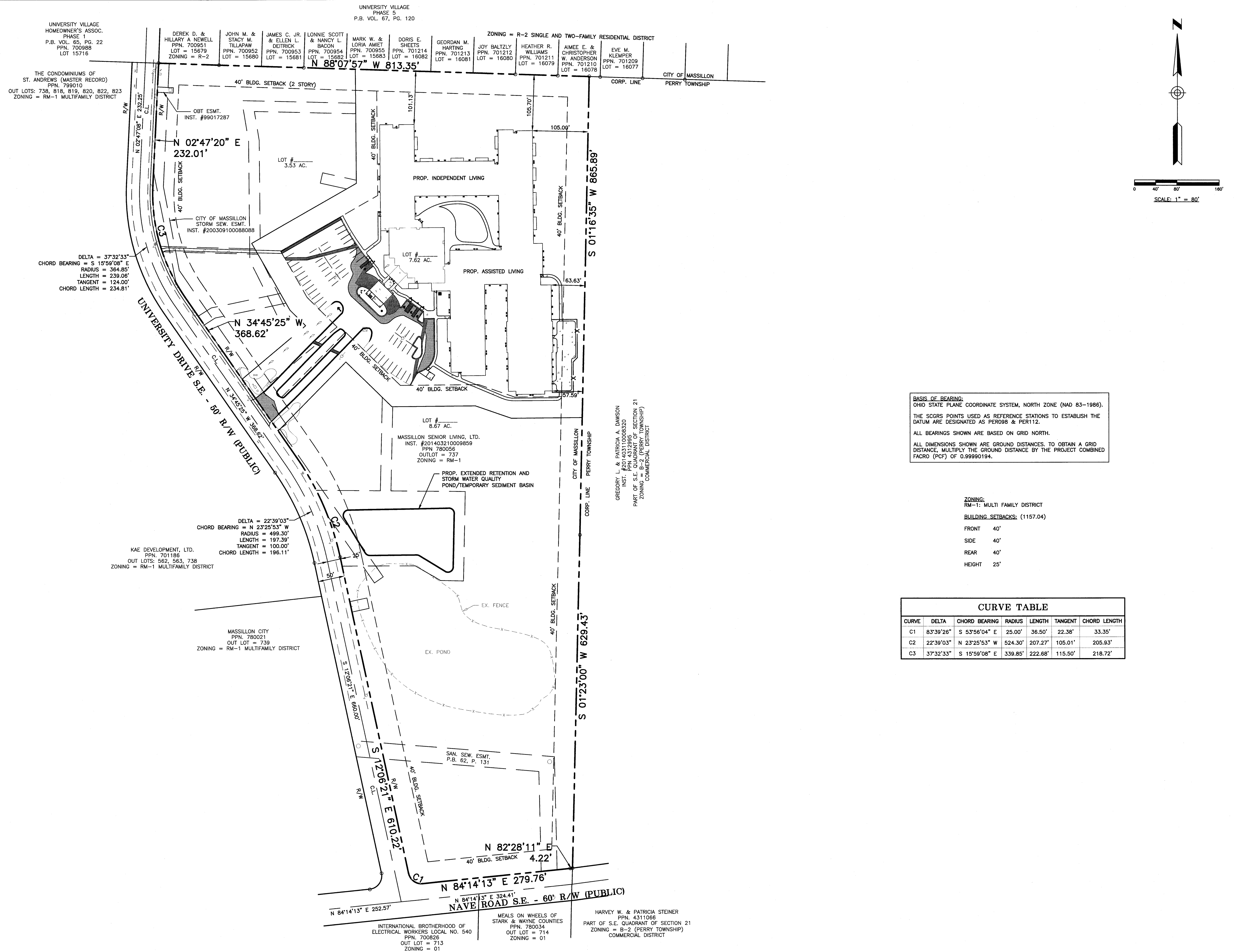
PROJECT NO  
46178

DRAWING NO.

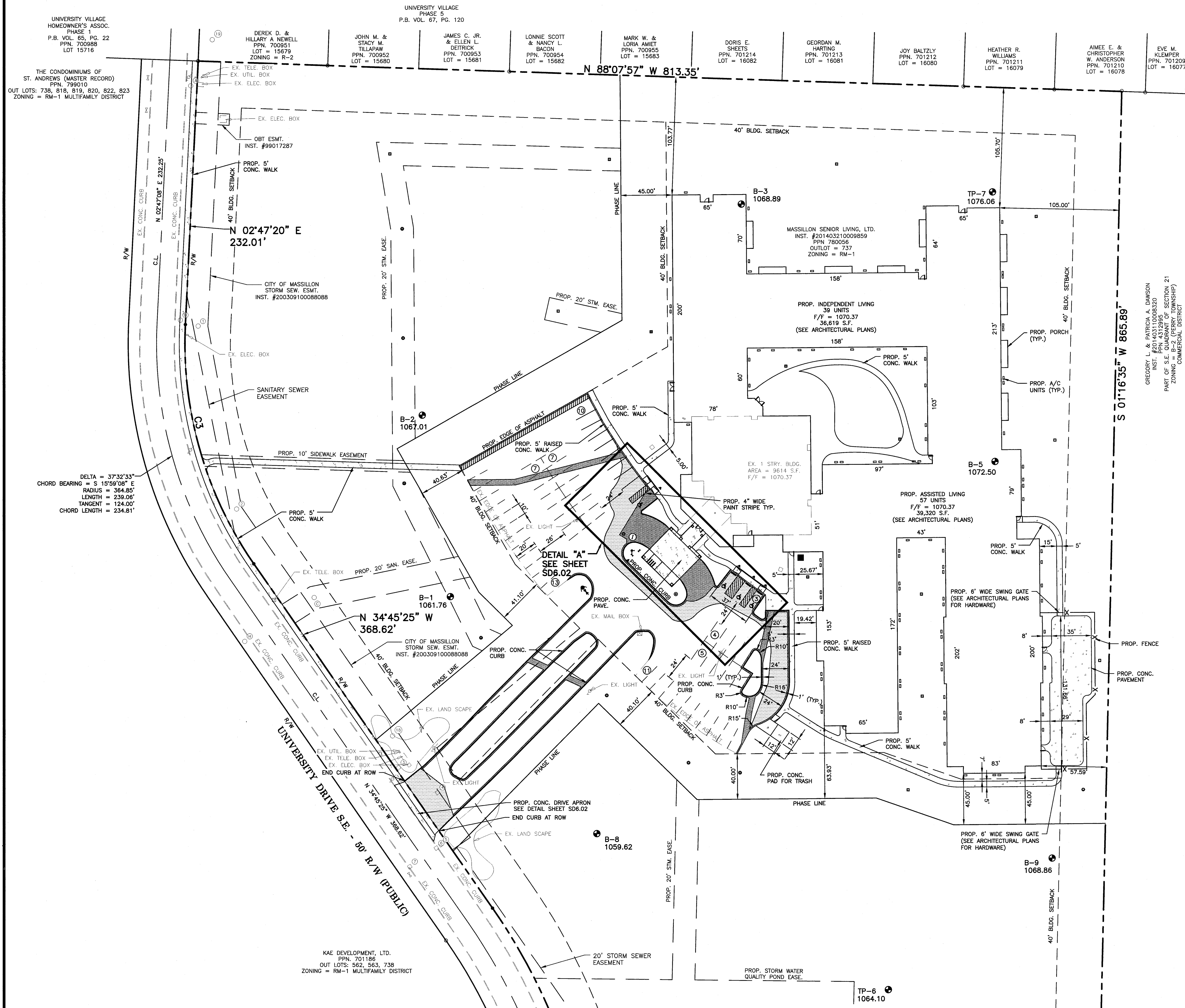
## SD1.01











INDEPENDENT & ASSISTED LIVING PARKING DATA

INDEPENDENT LIVING PARKING REQUIREMENT (1 FOR EACH 2 UNITS, AND 1 FOR EACH EMPLOYEE)	
NUMBER OF UNITS	= 39
(39/2)=20 SPACES REQUIRED	
ASSISTED LIVING PARKING REQUIREMENT (1 FOR EACH 3 BEDS, AND 1 FOR EACH EMPLOYEE ON THE LARGEST WORKING SHIFT)	
NUMBER OF UNITS	= 57
(57/3)=19 SPACES REQUIRED	
NUMBER OF EMPLOYEE SPACES	= 20
REQUIRED SPACES	= 59
PROVIDED PARKING SPACES	
PARKING SPACES	= 56
ACCESSIBLE SPACES	= 4
TOTAL PARKING SPACES	= 60

MINIMUM PARCEL AREA

PER PLANNING AND ZONING CODE 1177.01 (d)	
PHASE 1	
60 ROOMS X 1,200 S.F.	= 192,000 S.F. = 4.41 AC.

LEGEND

- FULL DEPTH PAVEMENT REPLACEMENT
- PAVEMENT OVERLAY DEPTH VARIES
- SOIL BORINGS - TEST PITS

FLOOD ZONE DESIGNATION

SUBJECT PARCEL LIES IN FLOOD ZONE X (AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FLOOD INSURANCE RATE MAP PANEL 39151C0213E (PANEL NOT PRINTED).

**BASIS OF BEARING:**  
OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (NAD 83-1986).  
THE SCGRS POINTS USED AS REFERENCE STATIONS TO ESTABLISH THE DATUM ARE DESIGNATED AS PER098 & PER112.  
ALL BEARINGS SHOWN ARE BASED ON GRID NORTH.  
ALL DIMENSIONS SHOWN ARE GROUND DISTANCES. TO OBTAIN A GRID DISTANCE, MULTIPLY THE GROUND DISTANCE BY THE PROJECT COMBINED FACTOR (PCF) OF 0.99990194.

ZONING:	
RM-1: MULTI FAMILY DISTRICT	
BUILDING SETBACKS:	
FRONT	40'
SIDE	40'
REAR	40'
HEIGHT	25'

**NOTE:**  
SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF CANOPIES, PORCHES, BUILDING UTILITY ENTRANCE LOCATIONS AND PRECISE BUILDING DIMENSIONS.

**FENCE NOTE**  
6" HIGH ECHELON PLUS ORNAMENTAL ALUMINUM FENCE MANUFACTURED BY AMERISTAR FENCE PRODUCTS. FENCE SHALL BE 3-RAIL MAJESTIC STYLE WITH 3/4" PICKETS. COLOR SHALL BE BLACK; OR APPROVED SIMILAR FENCE. FENCE POST SHALL BE INSTALLED IN CONCRETE PER MANUFACTURERS RECOMMENDATIONS.

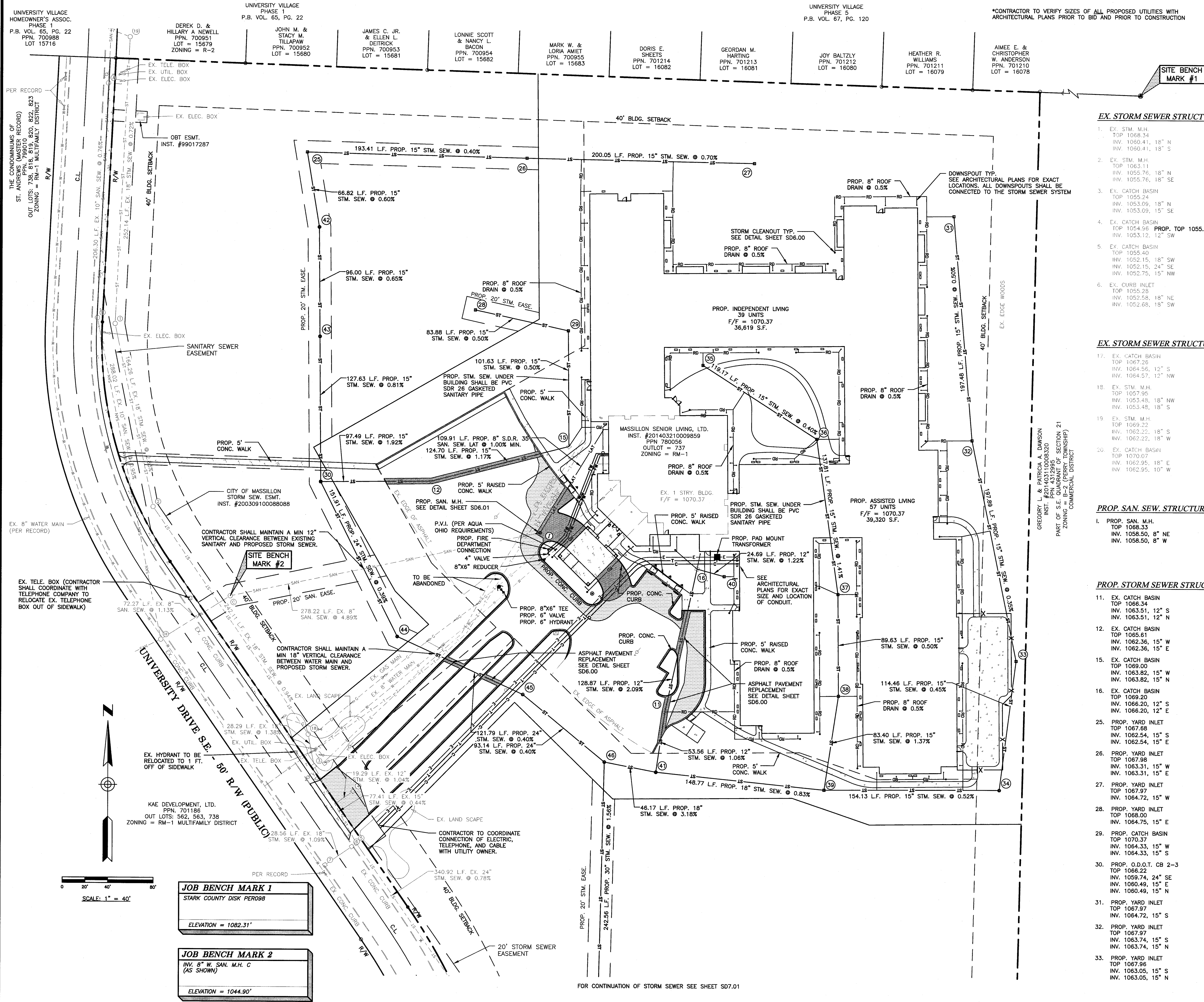
REVISIONS

**GBC DESIGN, INC.**  
565 White Road Drive Akron, OH 44320-1128  
Phone 330-836-0228 Fax 330-836-5782

**MASSILLON SENIOR LIVING, LTD.**  
1201 S. MAIN ST.  
NORTH CANTON, OH 44720

**DANBURY WOODS OF MASSILLON**  
2550 UNIVERSITY DRIVE S.E.  
MASSILLON, OHIO 44846  
**SITE PLAN**

**DRAWN BY:**  
J.D.D.  
**DATE:**  
6/20/2014  
**PROJECT NO.**  
46178  
**DRAWING NO.**  
SD3.01



EX. STORM SEWER STRUCTURE SCHEDULE

- 1. EX. STM. M.H. TOP 1068.34 INV. 1060.41, 18" N INV. 1060.41, 18" S
- 2. EX. STM. M.H. TOP 1063.11 INV. 1055.76, 18" N INV. 1055.76, 18" SE
- 3. EX. CATCH BASIN TOP 1055.24 INV. 1053.09, 18" N INV. 1053.09, 15" SE
- 4. EX. CATCH BASIN TOP 1054.96 INV. 1053.12, 12" SW
- 5. EX. CATCH BASIN TOP 1055.40 INV. 1052.15, 18" SW INV. 1052.15, 24" SE INV. 1052.75, 15" NW
- 6. EX. CURB INLET TOP 1055.28 INV. 1052.58, 18" NE INV. 1052.68, 18" SW

EX. STORM SEWER STRUCTURE SCHEDULE

- 7. EX. CURB INLET TOP 1055.26 INV. 1052.99, 18" NE
- 11. EX. CATCH BASIN TOP 1066.34 INV. 1058.84, 18" E INV. 1059.01, 15" NW
- 12. EX. CATCH BASIN TOP 1065.61 INV. 1059.54, 15" SE INV. 1059.68, 12" E INV. 1059.55, 12" N
- 14. EX. CATCH BASIN TOP 1067.37 INV. 1064.92, 12" SE
- 15. EX. CATCH BASIN TOP 1067.86 INV. 1063.91, 12" W INV. 1064.48, 12" NW
- 16. EX. CATCH BASIN TOP 1067.92 INV. 1065.37, 12" SE

EX. STORM SEWER STRUCTURE SCHEDULE

- 17. EX. CATCH BASIN TOP 1067.26 INV. 1064.56, 12" S INV. 1064.57, 12" NW
- 18. EX. STM. M.H. TOP 1067.97 INV. 1053.48, 18" NW INV. 1053.48, 18" S
- 19. EX. STM. M.H. TOP 1069.22 INV. 1062.22, 18" S INV. 1062.22, 18" W
- 20. EX. CATCH BASIN TOP 1070.07 INV. 1062.95, 18" E INV. 1062.95, 10" W

EX. SAN. SEW. STRUCTURE SCHEDULE

- A. EX. SAN. M.H. TOP 1071.04 INV. 1048.24, 10" S INV. 1048.53, 10" N
- B. EX. SAN. M.H. TOP 1068.59 INV. 1046.67, 10" S INV. 1046.67, 10" N
- C. EX. SAN. M.H. TOP 1060.58 INV. 1044.90, 8" SW INV. 1044.90, 8" E
- D. EX. SAN. M.H. TOP 1069.08 INV. 1059.56, 8" W INV. 1059.56, 8" N INV. 1059.67, 6" E
- H. EX. SAN. M.H. TOP 1059.57 INV. 1043.93, 10" N INV. 1044.08, 8" NE INV. 1043.93, 10" SW

PROP. SAN. SEW. STRUCTURE SCHEDULE

- 1. PROP. SAN. M.H. TOP 1068.33 INV. 1058.50, 8" NE INV. 1058.50, 8" W

PROP. STORM SEWER STRUCTURE SCHEDULE

- 11. EX. CATCH BASIN TOP 1066.34 INV. 1063.51, 12" S INV. 1063.51, 12" N
- 12. EX. CATCH BASIN TOP 1065.61 INV. 1062.36, 15" W INV. 1062.36, 15" E
- 15. EX. CATCH BASIN TOP 1069.00 INV. 1063.82, 15" W INV. 1063.82, 15" N
- 16. EX. CATCH BASIN TOP 1069.20 INV. 1066.20, 12" S INV. 1066.20, 12" E
- 25. PROP. YARD INLET TOP 1067.88 INV. 1062.54, 15" S INV. 1062.54, 15" E
- 26. PROP. YARD INLET TOP 1067.98 INV. 1063.31, 15" W INV. 1063.31, 15" E
- 27. PROP. YARD INLET TOP 1067.97 INV. 1064.72, 15" W
- 28. PROP. YARD INLET TOP 1068.00 INV. 1064.75, 15" E
- 29. PROP. CATCH BASIN TOP 1070.37 INV. 1064.33, 15" W INV. 1064.33, 15" S
- 30. PROP. O.D.T. CB 2-3 TOP 1068.22 INV. 1059.74, 24" SE INV. 1060.49, 15" E INV. 1060.49, 15" N
- 31. PROP. YARD INLET TOP 1067.97 INV. 1064.72, 15" S
- 32. PROP. YARD INLET TOP 1067.97 INV. 1063.74, 15" S INV. 1063.74, 15" N
- 33. PROP. YARD INLET TOP 1067.96 INV. 1063.05, 15" S INV. 1063.05, 15" N

PROP. STORM SEWER STRUCTURE SCHEDULE

- 34. PROP. STM. M.H. TOP 1070.20 INV. 1062.54, 15" W INV. 1062.54, 15" N
- 35. PROP. CATCH BASIN TOP 1069.00 INV. 1065.75, 15" SE
- 36. PROP. CATCH BASIN TOP 1069.00 INV. 1065.27, 15" S INV. 1065.27, 15" NW
- 37. PROP. YARD INLET TOP 1068.53 INV. 1063.33, 15" S INV. 1063.33, 15" N
- 38. PROP. YARD INLET TOP 1068.53 INV. 1062.88, 15" S INV. 1062.88, 15" N
- 39. PROP. YARD INLET TOP 1066.50 INV. 1061.49, 18" W INV. 1061.74, 15" N INV. 1061.74, 15" E
- 40. PROP. YARD INLET TOP 1069.50 INV. 1066.50, 12" W
- 41. PROP. STM. M.H. TOP 1066.75 INV. 1060.25, 18" W INV. 1062.94, 12" N INV. 1060.25, 18" E
- 42. PROP. STM. M.H. TOP 1068.62 INV. 1062.14, 15" N INV. 1062.14, 15" S
- 43. PROP. STM. M.H. TOP 1068.62 INV. 1061.52, 15" N INV. 1061.52, 15" S
- 44. PROP. STM. M.H. TOP 1063.50 INV. 1059.14, 24" NW INV. 1059.14, 24" SE
- 45. PROP. STM. M.H. TOP 1065.03 INV. 1058.85, 24" NW INV. 1058.85, 24" SE
- 46. PROP. STM. M.H. TOP 1065.86 INV. 1057.78, 30" S INV. 1058.78, 18" E INV. 1058.28, 24" NW

REVISIONS

MASSILLON SENIOR LIVING, LTD.  
1201 S. MAIN ST.  
NORTH CANTON, OH 44720

GBC DESIGN, INC.

565 White Pond Drive Akron, OH 44320-1123  
Phone 330-586-0228 Fax 330-586-5783

DANBURY WOODS OF MASSILLON  
2550 UNIVERSITY DRIVE S.E.  
MASSILLON, OHIO 44646

UTILITY PLAN

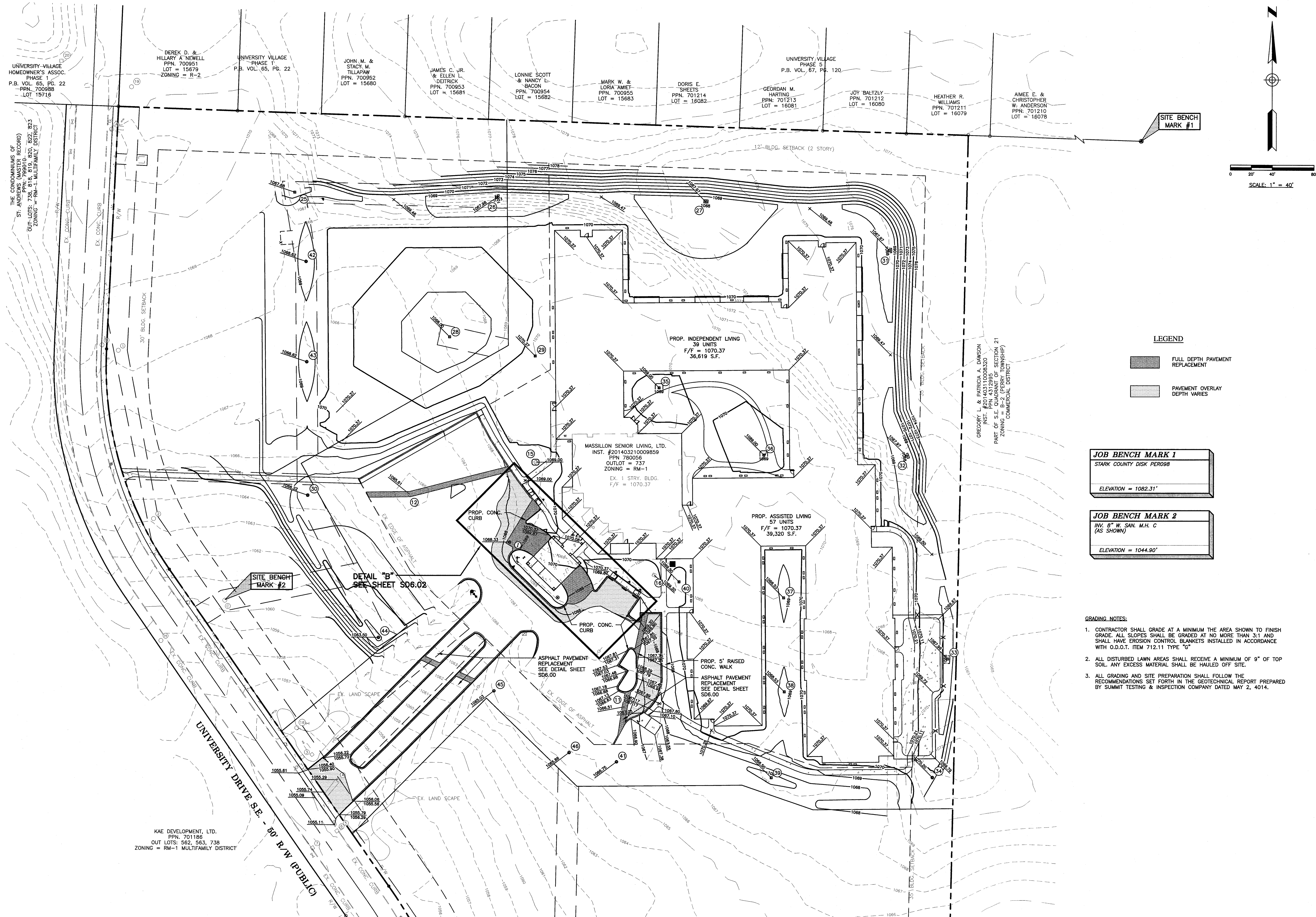
DRAWN BY:  
J.D.D.

DATE:  
6/20/2014

PROJECT NO.  
46178

DRAWING NO.  
SD4.00



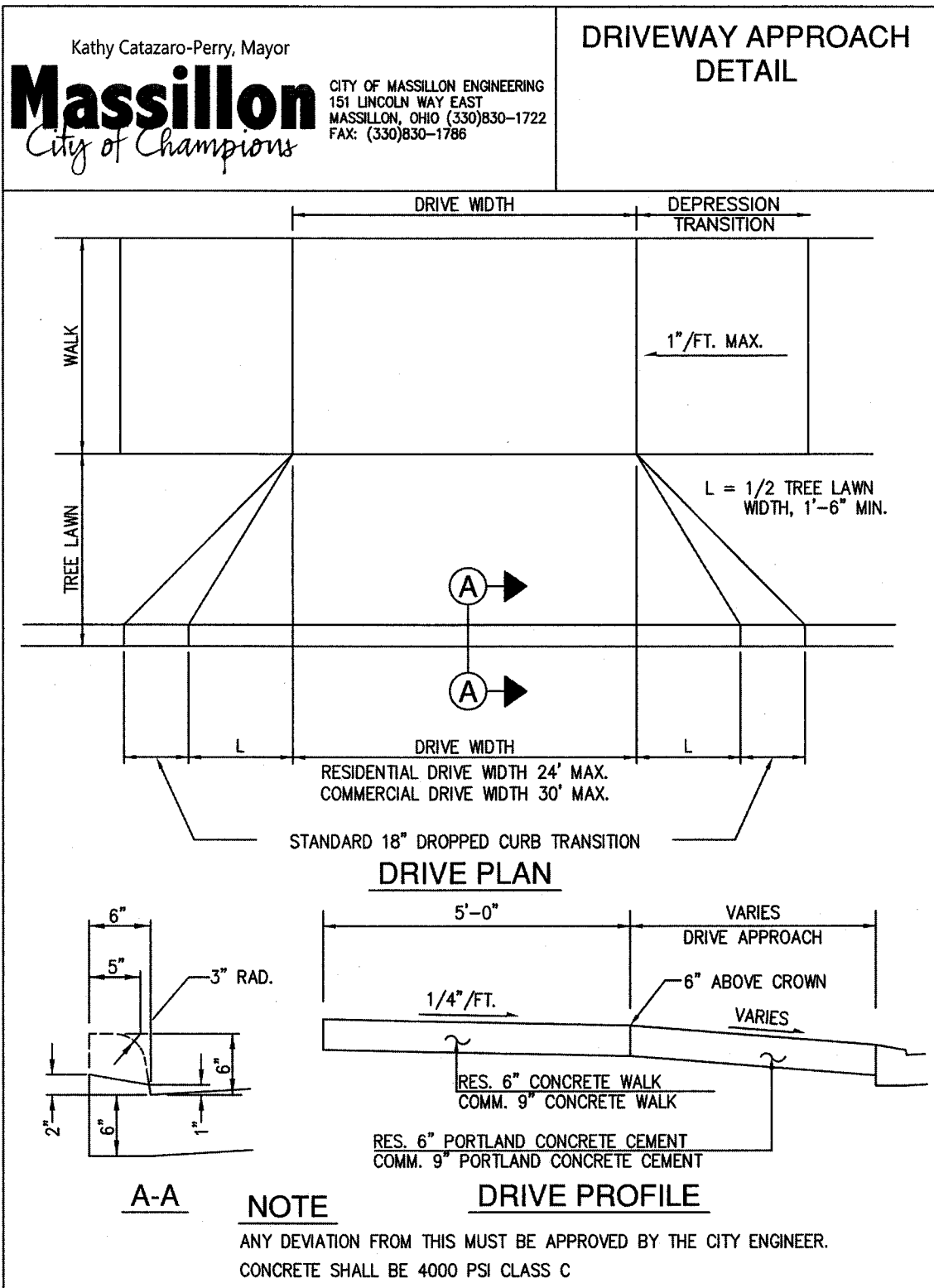
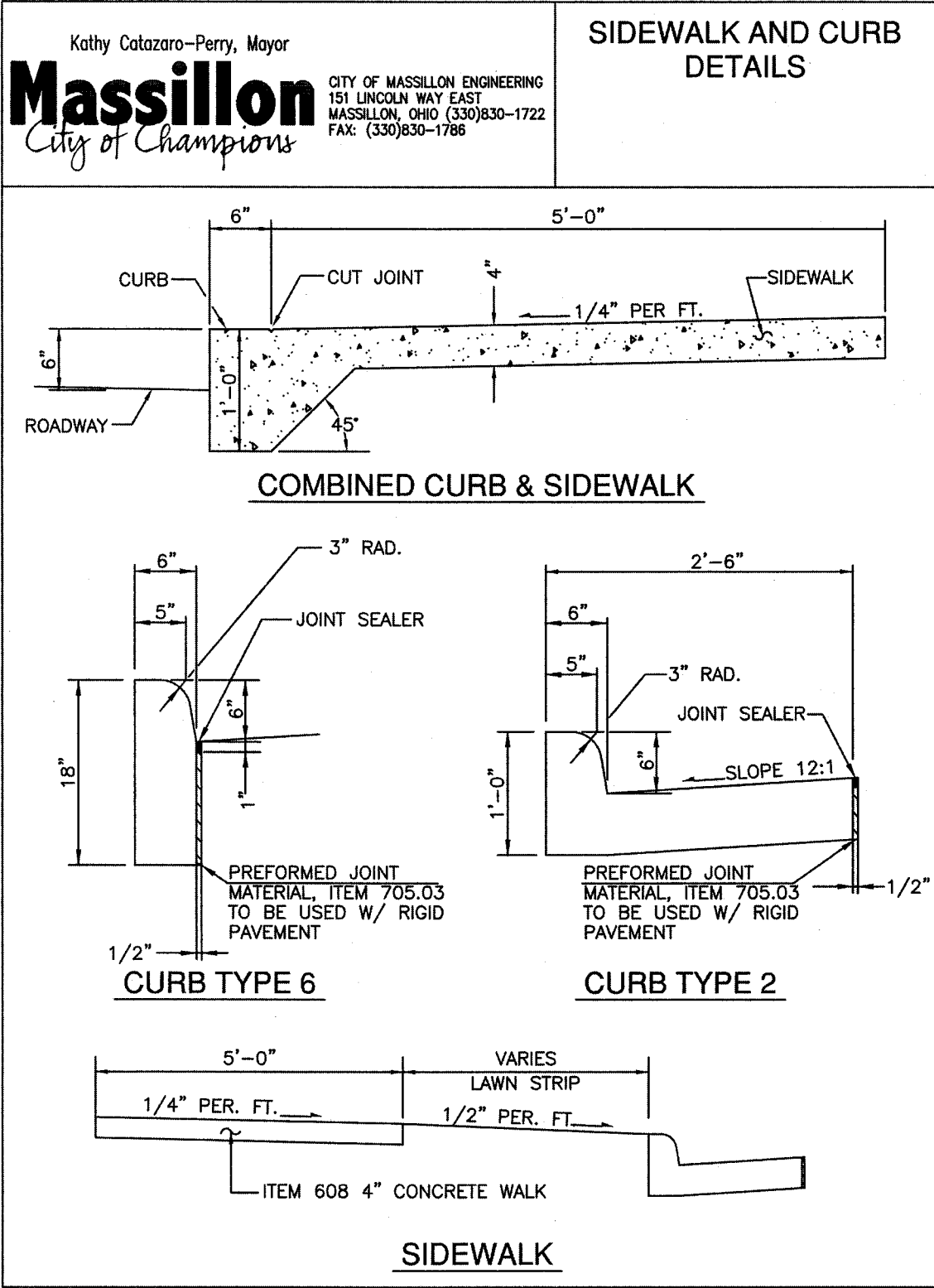








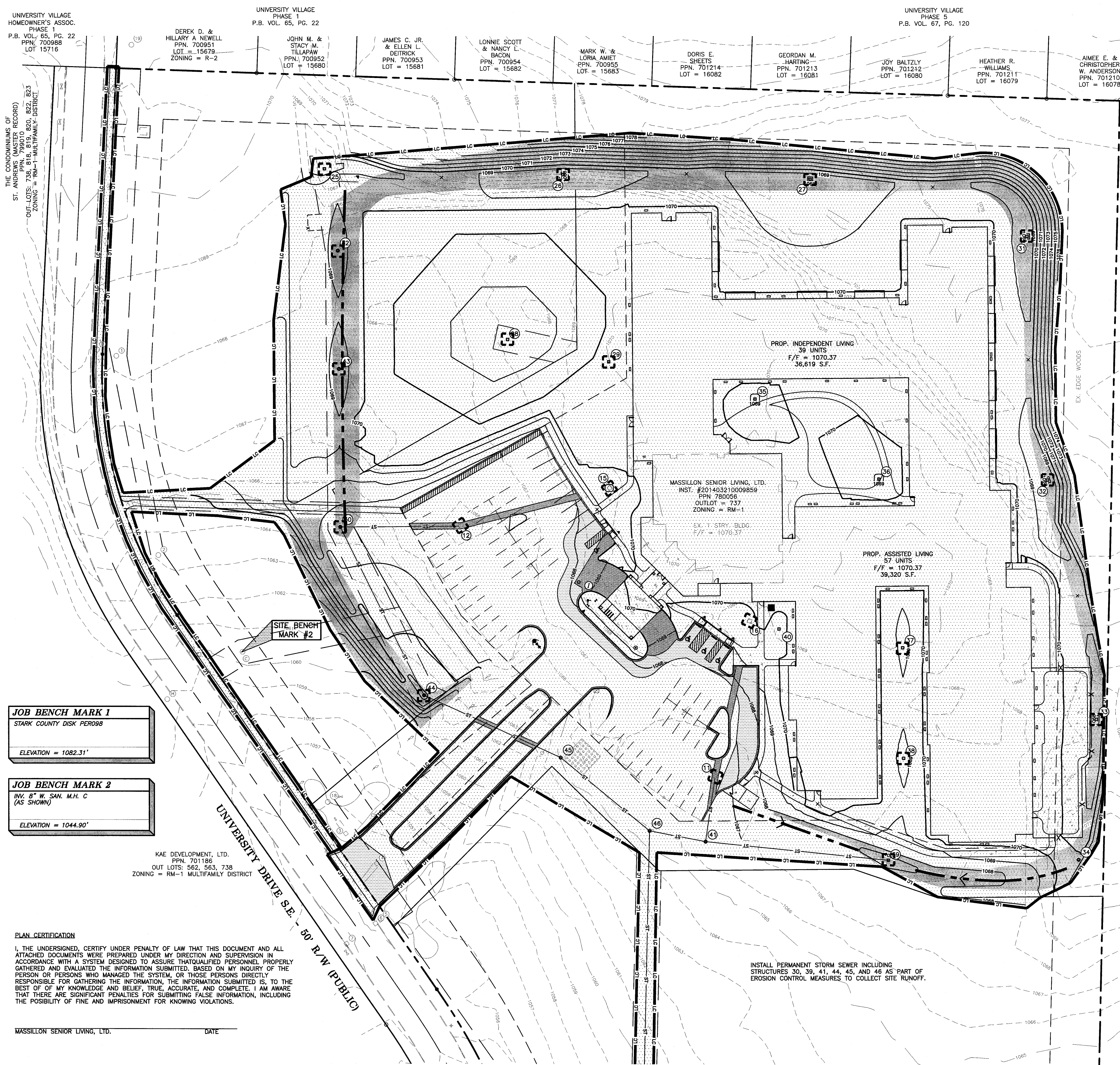




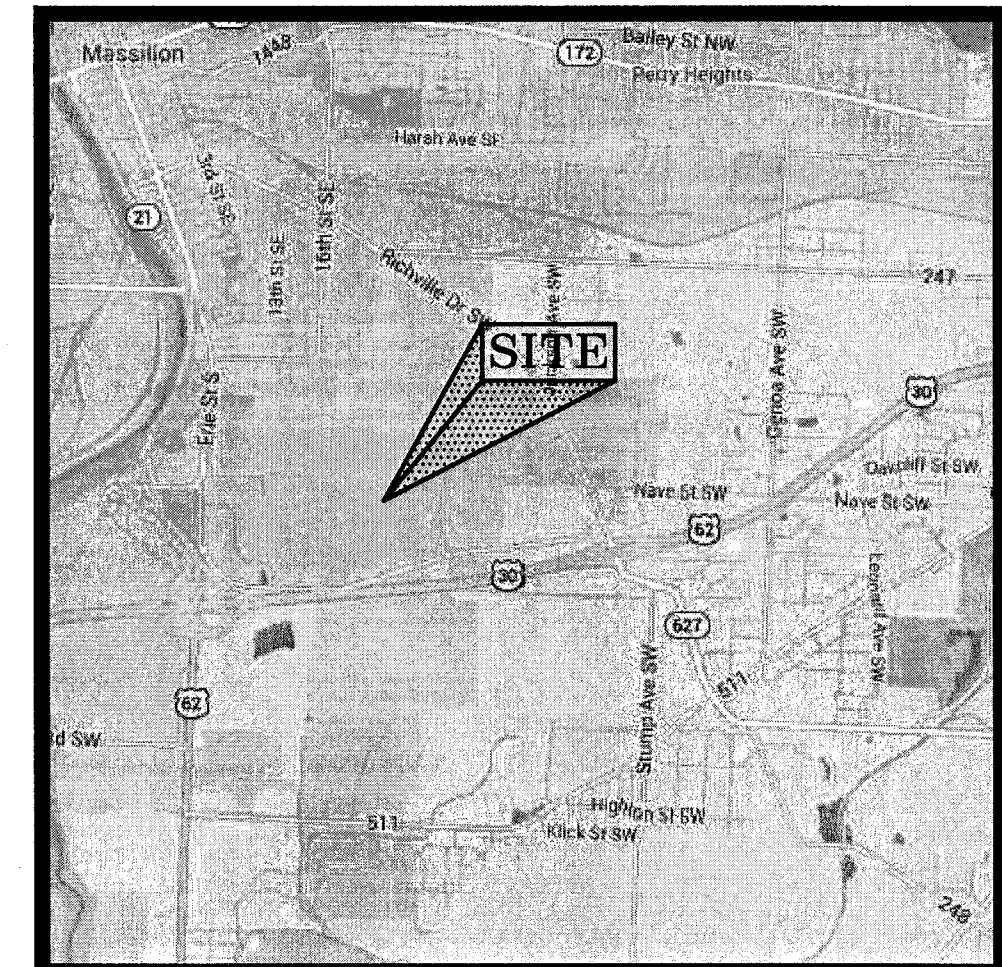






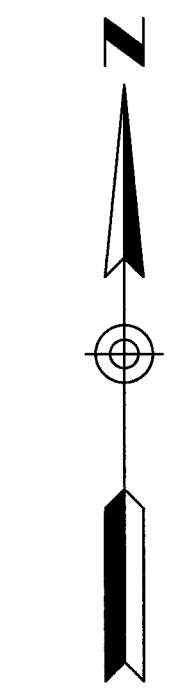


SITE BENCH MARK #1



LOCATION MAP  
NO SCALE

GREGORY L. & PATRICIA A. DAWSON  
INST. #20140321/0009859  
PPN 780056  
PART OF S.E. QUADRANT OF SECTION 21  
ZONING = B-2 (PERRY TOWNSHIP)  
COMMERCIAL DISTRICT



SCALE: 1" = 40'

SYMBOL	ITEM REFERENCE
[Symbol]	AREA OF CLEARING, GRUBBING
[Symbol]	TEMPORARY CONSTRUCTION ENTRANCE
[Symbol]	CEMENT TRUCK WASHOUT
[Symbol]	OUTLET PROTECTION
[Symbol]	EXCELSIOR MATTING, O.D.O.T. ITEM 712.11 TYPE "C" ON ALL SWALES, SLOPES UP TO 3:1 AND THE POND BANKS UNLESS OTHERWISE NOTED.
[Symbol]	INLET PROTECTION
[Symbol]	CONSTRUCTION LIMITS
[Symbol]	SILT FENCE
[Symbol]	TEMPORARY DIVERSION CHANNEL/BERM

GRADING, STABILIZATION, & SWP3 AMENDMENT ACTIVITIES

	DATE(S)
GRADING	
SITE STABILIZATION	
SWP3 AMENDMENTS	

CONSTRUCTION SITE & SWP3 RESPONSIBLE PARTY

MASSILLON SENIOR LIVING, LTD.  
1201 SOUTH MAIN STREET  
NORTH CANTON, OH 44720

SWP3 PREPARED 06/15/14

ESTIMATED CONSTRUCTION  
START DATE 8/15/14  
ESTIMATED CONSTRUCTION  
COMPLETION DATE 2/15/15

\*THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCING, JUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL RAINWATER AND LAND DEVELOPMENT - OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN PROTECTION. SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORM WATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS, AS SPECIFIED BY THE CITY OF MASSILLON.

UNIVERSITY VILLAGE  
HOMEOWNER'S ASSOC.  
PHASE 5  
P.B. VOL. 65, PG. 22  
PPN 700988  
LOT 15716

DEREK D. &  
HILLARY A NEWELL  
PPN 700951  
LOT = 15679  
ZONING = R-2

JOHN M. &  
STACY M. TILLAPAW  
PPN 700952  
LOT = 15680

JAMES C. JR. &  
ELLEN L. DETTRICK  
PPN 700953  
LOT = 15681

LONNIE SCOTT &  
NANCY L. BACON  
PPN 700954  
LOT = 15682

MARK W. &  
LORIA AMET  
PPN 700955  
LOT = 15683

DORIS E. SHEETS  
PPN 701214  
LOT = 16082

GEORDAN M. HARTING  
PPN 701213  
LOT = 16081

JOY BALTZLY  
PPN 701212  
LOT = 16080

HEATHER R. WILLIAMS  
PPN 701211  
LOT = 16079

AMEE E. &  
CHRISTOPHER W. ANDERSON  
PPN 701210  
LOT = 16078

THE CONDOMINIUMS OF  
ST. ANDREWS (MASTER RECORD)  
OUT LOTS: 738, 818, 819, 820, 822, 823  
ZONING = RM-1 MULTIFAMILY DISTRICT

JOB BENCH MARK 1  
STARK COUNTY DISK PER09B  
ELEVATION = 1082.31'

JOB BENCH MARK 2  
INV. 8" W. SAN. M.H. C  
(AS SHOWN)  
ELEVATION = 1044.90'

KAE DEVELOPMENT, LTD.  
PPN 701186  
OUT LOTS: 562, 563, 738  
ZONING = RM-1 MULTIFAMILY DISTRICT

PLAN CERTIFICATION  
I, THE UNDERSIGNED, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHED DOCUMENTS WERE PREPARED UNDER MY DIRECTION AND 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 MANAGED 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.

MASSILLON SENIOR LIVING, LTD. DATE

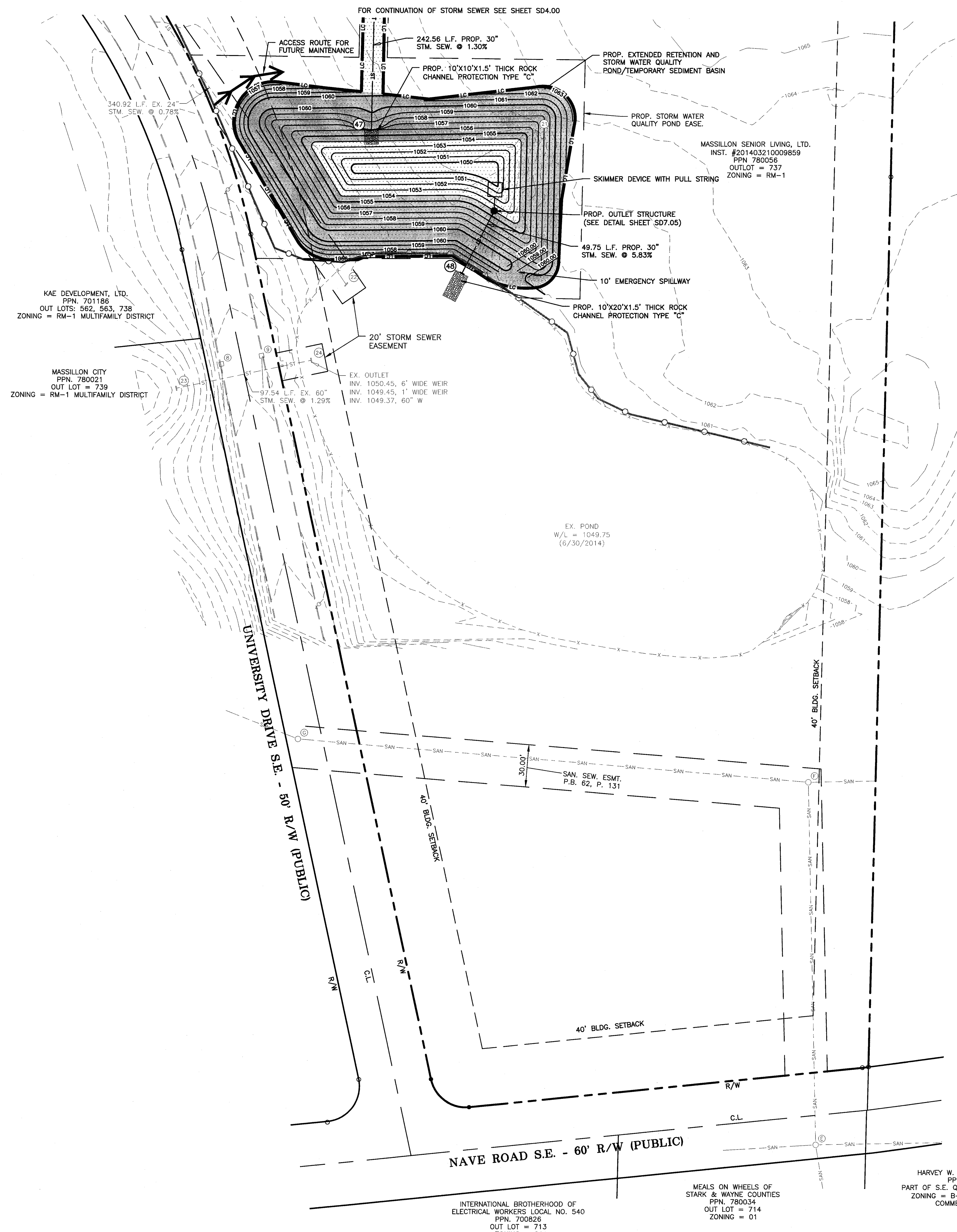
GBC DESIGN, INC.  
565 White Pond Drive Akron, OH 44320-1193  
Phone 330-886-0228 Fax 330-886-5782

MASSILLON SENIOR LIVING, LTD.  
1201 S. MAIN ST.  
NORTH CANTON, OH 44720

DANBURY WOODS OF MASSILLON  
2550 UNIVERSITY DRIVE S.E.  
MASSILLON, OHIO 44846  
SWPPP

DRAWN BY:  
J.D.D.  
DATE:  
6/20/2014  
PROJECT NO.  
46178  
DRAWING NO.  
SD7.00





**PROP. STORM SEWER HEADWALL SCHEDULE**

- 47. PROP. HEADWALL  
INV. 1054.00, 30" N
- 48. PROP. HEADWALL  
INV. 1049.75, 30" NE

**EX. STORM SEWER STRUCTURE SCHEDULE**

- 8. EX. CURB INLET  
TOP 1061.71  
INV. 1053.29, 12" S
- 9. EX. CURB INLET  
TOP 1061.82  
INV. 1053.45, 12" S

**EX. STORM SEWER HEADWALL SCHEDULE**

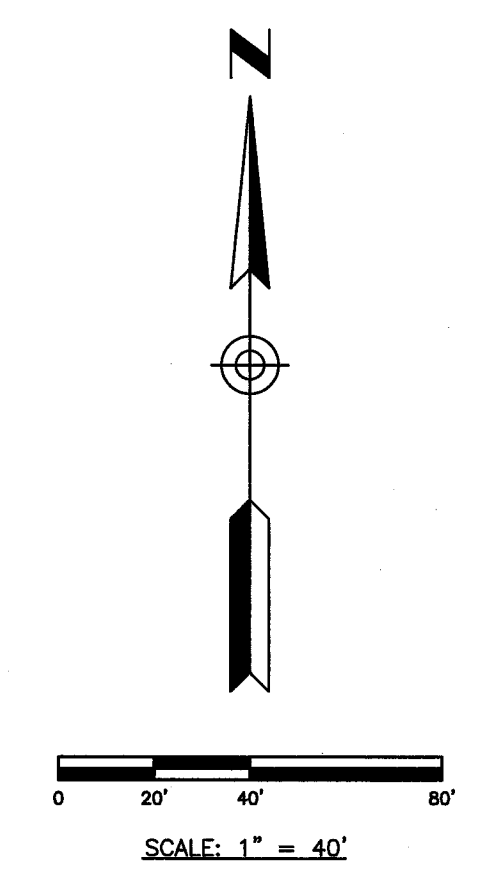
- 21. EX. HEADWALL  
INV. 1058.06, 24" NE
- 22. EX. HEADWALL  
INV. 1049.48, 24" NW
- 23. EX. HEADWALL  
INV. 1048.11, 60" E
- 24. EX. HEADWALL  
INV. 1049.37, 60" W

**EX. SAN. SEW. STRUCTURE SCHEDULE**

- E. EX. SAN. M.H.  
TOP 1078.03  
INV. 1068.31, 8" W  
INV. 1068.31, 8" E  
INV. 1068.31, 8" S  
INV. 1068.31, 8" N
- F. EX. SAN. M.H.  
TOP 1058.16  
INV. 1048.86, 8" S  
INV. 1048.55, 12" W  
INV. 1048.58, 12" E
- G. EX. SAN. M.H.  
TOP 1065.77  
INV. 1045.90, 12" E  
INV. 1045.83, 12" W

\* CONTRACTOR IS TO REPLACE ANY EXISTING FENCE DISTURBED DURING CONSTRUCTION OF THE WATER QUALITY POND/TEMPORARY SEDIMENT BASIN

INSTALL PERMANENT STORM SEWER INCLUDING STRUCTURE 44 AS PART OF EROSION CONTROL MEASURES TO COLLECT SITE RUNOFF.



SYMBOL	ITEM REFERENCE
	AREA OF CLEARING, GRUBBING
	OUTLET PROTECTION
	EXCELSIOR MATTING, O.D.O.T. ITEM 712.11 TYPE "C" ON ALL SWALES, SLOPES UP TO 3:1 AND THE POND BANKS UNLESS OTHERWISE NOTED.
	CONSTRUCTION LIMITS
	SILT FENCE

**CONSTRUCTION SITE & SWP3 RESPONSIBLE PARTY**  
MASSILLON SENIOR LIVING, LTD.  
1201 SOUTH MAIN STREET  
NORTH CANTON, OH 44720

SWP3 PREPARED 06/15/14

ESTIMATED CONSTRUCTION  
START DATE 8/15/14  
ESTIMATED CONSTRUCTION  
COMPLETION DATE 2/15/15

**GRADING, STABILIZATION, & SWP3 AMENDMENT ACTIVITIES**

	DATE(S)
GRADING	
SITE STABILIZATION	
SWP3 AMENDMENTS	

REVISIONS

**GBC DESIGN, INC.**  
565 White Pond Drive Akron, OH 44320-1128  
Phone 330-836-0228 Fax 330-836-5782

**MASSILLON SENIOR LIVING, LTD.**  
1201 S. MAIN ST.  
NORTH CANTON, OH 44720

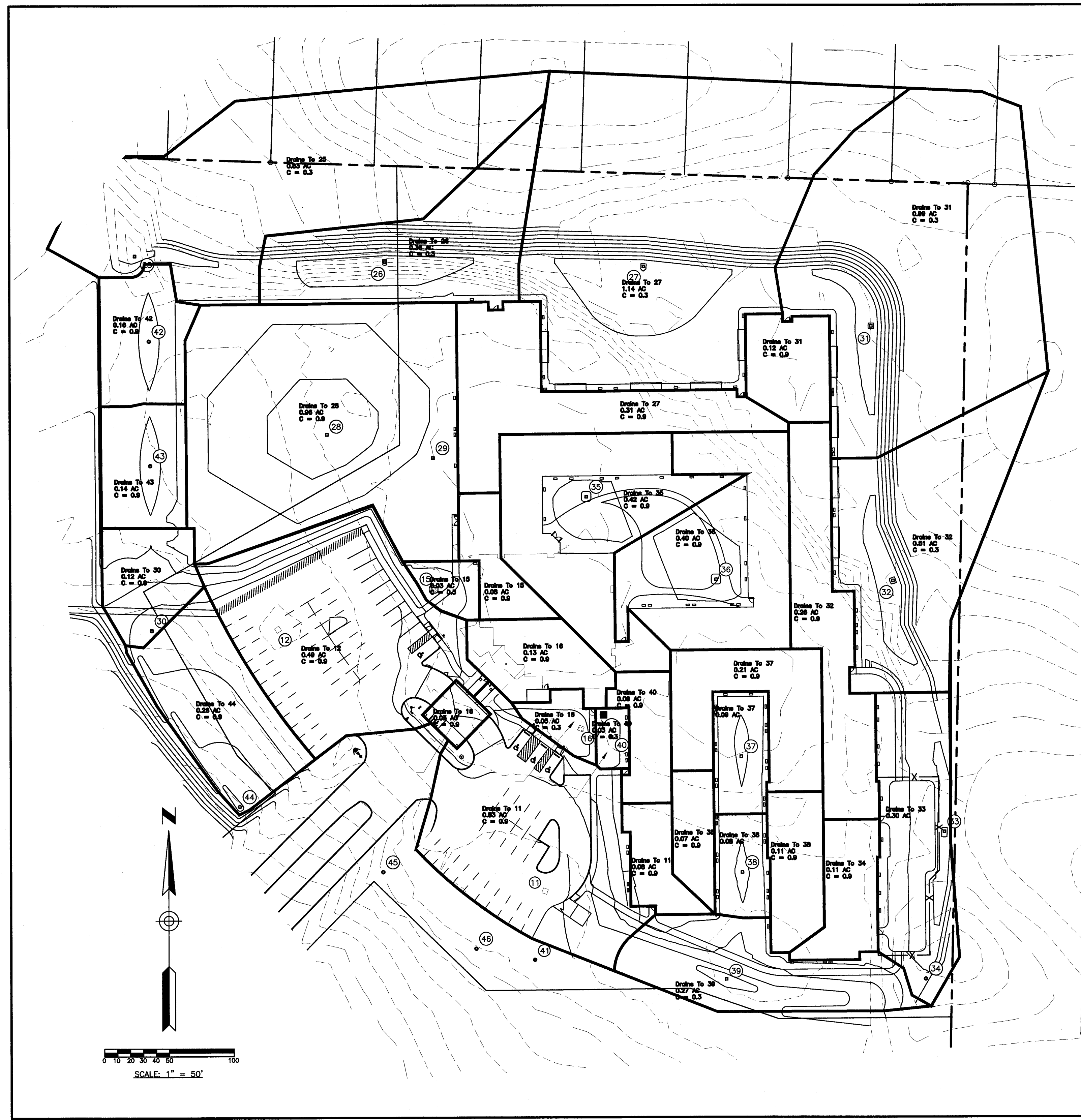
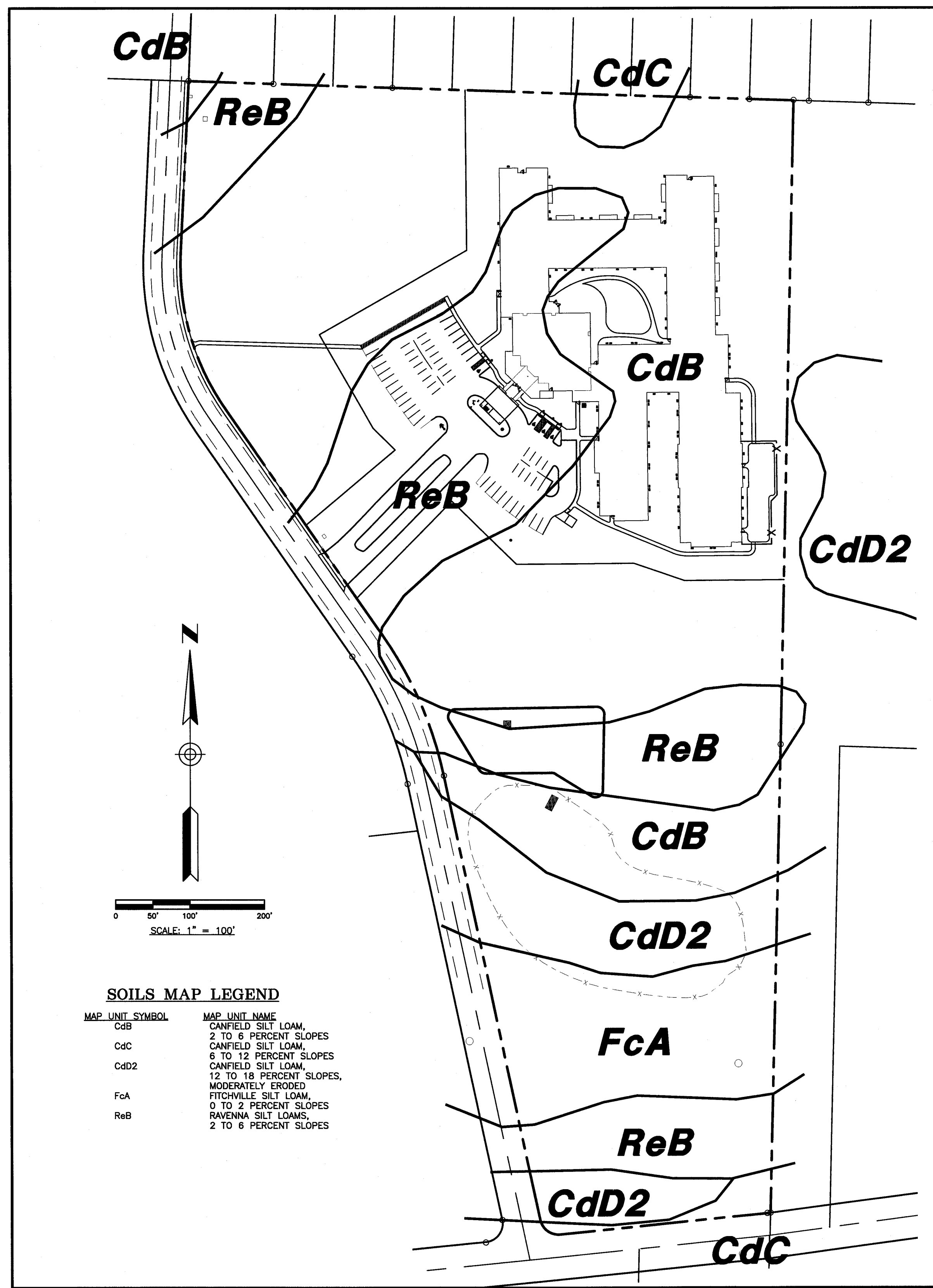
DANBURY WOODS OF MASSILLON  
2550 UNIVERSITY DRIVE S.E.  
MASSILLON, OHIO 44646  
SWPPP

DRAWN BY:  
J.D.D.

DATE:  
6/20/2014

PROJECT NO.  
46178

DRAWING NO.  
SD7.01



## INSPECTION CHECKLIST

INSPECTIONS SHALL BE MADE ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD.

[illegible]



- PART III G. SWP3 REQUIREMENTS
1. a. COMMERCIAL BUILDING & SITE UTILITIES
- b. TOTAL SITE AREA = 19.82 AC. = DISTURBED AREA = 9.70 AC.
- c. PRE-CONSTRUCTION RUNOFF COEFFICIENT - C=0.37; POST-CONSTRUCTION RUNOFF COEFFICIENT (WEIGHTED) C=0.52.
- d. IMPERVIOUS AREA = 7.3 AC., PERCENT IMPERVIOUS = 37%.
- e. SOIL TYPES
- CdB CANFIELD SILT LOAM
  - Cdc CANFIELD SILT LOAM
  - Cde CANFIELD SILT LOAM
  - Fca FITCHVILLE SILT LOAM
  - ReB RAVENNA SILT LOAM
- f. PRIOR LAND USE: UNIVERSITY SATELLITE CAMPUS.
- g. CONSTRUCTION SEQUENCE - SEE IMPROVEMENT PLANS
- h. PIGEON RUN
- NO WETLANDS
  - NOT SUBDIVIDED (MEASURES IDENTIFIED ON PLANS)
  - NOT APPLICABLE
  - PERMIT REQUIREMENTS ATTACHED. (FIELD COPY)
  - IDENTIFIED ON SHEET SD7.00 TO SD7.02
  - IDENTIFIED ON SHEET SD7.00 TO SD7.02
  - (i) LIMITS OF CONSTRUCTION IDENTIFIED ON THE PLANS (LC).
  - (ii) SOIL TYPES IDENTIFIED ON THE PLANS
  - (iii) DRAINAGE WATERSHEDS IDENTIFIED ON THE PLANS.
  - (iv) THERE ARE NO WETLANDS ON THE SITE. NO SPRINGS, LAKES OR WATER WELLS WITHIN 200 FEET OF THE SITE.
  - (v) EXISTING & PLANNED LOCATIONS OF BUILDINGS, ROADS, PARKING FACILITIES AND UTILITIES ARE IDENTIFIED ON THE PLANS.
  - (vi) EROSION AND SEDIMENT CONTROL PRACTICES ARE IDENTIFIED ON THE PLANS.
  - (vii) SEDIMENT & STORM WATER MANAGEMENT DATA IS IDENTIFIED ON THE PLANS.
  - (viii) PERMANENT STORM WATER MANAGEMENT PRACTICES ARE IDENTIFIED ON THE PLANS.
  - (ix) CEMENT TRUCK WASHOUT, DUMPSTER & VEHICLE FUELING AREA ARE IDENTIFIED ON THE PLANS.
  - (x) CONSTRUCTION ENTRANCE IS IDENTIFIED ON THE PLANS.
  - (xi) NOT APPLICABLE
  - (ii) TABLE 1 & TABLE 2 HAVE BEEN IDENTIFIED ON THE PLANS.
  - (iii) NOT APPLICABLE
  - C. SHEET FLOW RUNOFF HAS BEEN CONTROLLED BY MEANS OF SILT FENCE AND DIRECTED TOWARDS UNDISTURBED SOILS. POINT DISCHARGES HAVE BEEN CONTAINED WITHIN STORM SEWERS.
  - D. SEDIMENT CONTROL HAS BEEN MAINTAINED BY MEANS OF SILT FENCE.
  - (i) NOTED THROUGHOUT THE PLANS.
  - (ii) STORM WATER POND WILL BE USED AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
  - (iii) SILT FENCE IS IDENTIFIED ON THE PLANS.
  - (iv) INLET PROTECTION IS IDENTIFIED ON THE PLANS.
  - (v) TEMPORARY DIVERSION SWALE, SILT FENCE, AND TEMPORARY SEDIMENT BASIN WILL BE USED TO PROTECT THE STREAM.
  - (vi) NOTED ON THE IMPROVEMENT PLANS.
  - E. POST-CONSTRUCTION MAINTENANCE AND INSPECTION IS IDENTIFIED ON THE PLANS.
  - LARGE CONSTRUCTION ACTIVITIES - A WET EXTENDED DETENTION BASIN WILL BE USED FOR POST CONSTRUCTION STORM WATER QUALITY
  - SMALL CONSTRUCTION ACTIVITIES - NOT APPLICABLE
  - F. SURFACE WATER PROTECTION - NOT APPLICABLE
  - G. OTHER CONTROLS
  - (i) CEMENT TRUCK WASHOUT AREA IS IDENTIFIED ON THE PLANS.
  - (ii) DUST CONTROL MEASURES AND VEHICLE TRACKING ARE IDENTIFIED ON THE PLANS.
  - (iii) ADDITIONAL NOTES ARE IDENTIFIED ON THE PLANS.
  - (iv) NOTED ON THE PLANS.
  - (v) NOTED ON THE PLANS.
  - (vi) NOTED THROUGHOUT THE PLANS.
  - (vii) INSPECTION FREQUENCY AND INSPECTION CHECKLIST IS NOTED ON THE PLANS.
  - (viii) NOTED ON THE PLANS.
  - (ix) STATEMENT NOTED.
  - (x) APPROVED STATE OR LOCAL PLANS STATEMENT NOTED.
  - 4. EXCEPTIONS STATEMENT NOTED.

ADDITIONAL CONSTRUCTION SITE POLLUTION CONTROLS

1. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
- PREVENT SPILLS
  - USE PRODUCTS UP
  - FOLLOW LABEL DIRECTIONS FOR DISPOSAL
  - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH.
  - RECYCLE WASTES WHENEVER POSSIBLE
  - DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
  - DON'T POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
  - DON'T BURY CHEMICALS OR CONTAINERS
  - DON'T BURN CHEMICALS OR CONTAINERS
  - DON'T MIX CHEMICALS TOGETHER
2. CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT AN OHIO EPA APPROVED CD&D LANDFILL.
3. NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENCRATCH UPON NATURAL WETLANDS, STREAMS OR FLOODPLAINS OR RESULT IN THE CONTAMINATION OF WATERS OF THE STATE.
4. HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
5. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 660 GALLONS OR MORE, ACCUMULATING ABOVE GROUND STORAGE OF 1,330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE DISPOSED OF IN ACCORDANCE WITH ITEM 8.
6. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL-BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP OR PIT SHALL BE PLUGGED OFF. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.
7. SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAND/STUR OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES, SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO OHIO EPA (1-800-282-2). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO OHIO EPA.
8. CONTAMINATED SOILS, IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY. (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). NOTE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT BE AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
9. OPEN BURNING, NO MATERIALS CONTAINING RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS, SUCH AS TIRES, AUTO PARTS, PLASTICS OR PLASTIC COATED WIRE MAY BE BURNED (OAC 3745-19). OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS, WHICH ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS; 2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION LIMITS; 3) WITHIN 1000 FEET OUTSIDE A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 1000 TO 10,000; AND 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE. OUTSIDE OF RESTRICTED AREAS, NO OPEN BURNING IS ALLOWED WITHIN A 1000 FEET OF AN INHABITED BUILDING ON ANOTHER PROPERTY. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR: HEATING TAR, WELDING, SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBECUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE - FOR LANDSCAPE OR LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES, EXCLUDING BUILDINGS.
10. DUST CONTROL OR DUST SUPPRESSANTS SHALL BE USED TO PREVENT NUISANCE CONDITIONS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER, WHICH PREVENT A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.
11. OTHER AIR PERMITTING REQUIREMENTS: CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. OPERATORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF OHIO EPA. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO OHIO EPA TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
12. PROCESS WASTE WATER/LEACHATE MANAGEMENT: OHIO EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE CONCRETE WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED TREATMENT FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.
13. A PERMIT TO INSTALL (PTI) IS REQUIRED PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. PLANS MUST BE SUBMITTED AND APPROVED BY OHIO EPA. ISSUANCE OF AN OHIO EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE OHIO EPA HAS NOT APPROVED A PTI.

TABLE 1: PERMANENT STABILIZATION

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

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT 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 STREAM	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
	FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOTS(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.

CONSTRUCTION SEQUENCE

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

SITE PREPARATION

NOTE: 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 THE 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 APPROVED NPDES PERMIT AND SIGN THE PERMIT TO ACCEPT RESPONSIBILITIES AS THE CO-PERMITTEE.

INITIAL PHASE (WITHIN 7 DAYS OF START OF GRUBBING)

1. INSTALL A TEMPORARY CONSTRUCTION ENTRANCE AND CEMENT TRUCK WASHOUT AREA FOR ACCESS TO CONSTRUCTION AREAS OF SITE.
2. SETUP CONSTRUCTION TRAILER ON SITE AND ESTABLISH TEMPORARY POWER AND TELEPHONE SERVICE.
3. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. STAKEOUT LIMITS OF DISTURBANCE.
5. INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS WITHIN LIMITS OF CONSTRUCTION. 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.
6. INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS.
7. INSTALL PERMANENT STORM SEWER AS SHOWN ON SHEET SD7.00 & SD7.01 TO DIVERT RUNOFF TO TEMPORARY SEDIMENT BASIN.
8. CONSTRUCT TEMPORARY SEDIMENT CONTROL BASIN AND DIVERSIONS PRIOR TO ANY GRADING.
9. BEGIN SITE CLEARING.
10. REMOVE TOPSOIL FROM AREAS OF BUILDING AND PAVEMENT.
11. BEGIN EARTHWORK OPERATIONS.
12. 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 HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

INTERIM PHASE  
GENERAL CONSTRUCTION

1. MAINTAIN TEMPORARY CONTROLS 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 BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL. THE CONTRACTOR IS TO COORDINATE WITH OWNER THE PLACEMENT OF SUCH MEASURES.
3. STORM SEWER, SANITARY SEWER, WATER LINE AND UTILITY LINE CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF GRADE AND WITH THE PERMISSION OF THE OWNER.
4. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY MEANS OF GRAVEL BACKFILL TO SURFACE, REPAVING OR MULCHING.
5. REPLACE TOPSOIL, FINE GRADE AND SEED AS REQUIRED.
6. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVEATCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
7. INSTALL PAVEMENT SUBBASE.
8. BEGIN BITUMINOUS PAVING, REMOVING TEMPORARY CONSTRUCTION ENTRANCE ONLY WHEN NECESSARY.
9. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 80% COVERAGE IS ACHIEVED.
10. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (70%) IS OBTAINED.

FINAL PHASE POST-PAVING  
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 SEDIMENT CONTROL DEVICES AND ESTABLISH WATER QUALITY CONTROL ORIFICE.
  - B. REMOVE TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO COMPLETION OF PAVING.
  - C. SITE CLEAN UP.
  - D. RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED
  - E. FILTER FENCES ARE TO BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.
  - F. VERIFY POSITIVE CONVEYANCE FLOW IN ALL DRAINAGE STRUCTURES.

INSPECTION SCHEDULE

PRACTICE ITEM	FREQUENCY	NOTES
GENERAL INSPECTION	EVERY 6 MONTHS	
SWALES	MONTHLY	
VEGETATION	MONTHLY	FOR THE FIRST 2 GROWING SEASONS, THEN 2 TIMES A YEAR.
SILT FENCE	MONTHLY	FOR THE FIRST GROWING SEASON

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS 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. PROVIDED WILL BE NAME OF INSPECTOR, OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN. RECORDS SHALL L BE SUBMITTED TO THE STARK COUNTY SOIL & WATER CONSERVATION DISTRICT OFFICE AND THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR REVIEW BY MAY 1st OF EACH YEAR.

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

TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB/1000 FT. <sup>2</sup>	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	2	40 LB.
	PERENNIAL RYEGRASS	2	40 LB.
AUGUST 16 TO NOVEMBER 1	TALL FESCUE	3	2 BUSHEL
	PERENNIAL RYEGRASS	1	40 LB.
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	2	40 LB.

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE.
2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR MORE. THESE IDE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
3. THE SEEDED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDED PREPARATION IS NOT POSSIBLE.
4. SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISHED ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
5. SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE RAKED OR DRAGGED TO THE SURFACE AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.
- MULCHING TEMPORARY SEEDING
  1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
  2. MATERIALS:
    - STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN APPLIED AT 2 TONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
    - HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB./1,000 SQ. FT.
    - OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS / AC.
  3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:
    - MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN.
    - MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
    - ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT A RATE OF 160 GAL. / AC.
    - SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
    - WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

POST-CONSTRUCTION BMP RATIONALE

THE STORM WATER MANAGEMENT (QUALITY) IS HANDLED BY A WET EXTENDED DETENTION BASIN.

ADDITIONAL SWP3 CONSIDERATIONS

NO OPEN BURNING

DUST CONTROL SHALL BE ACHIEVED BY USE OF WATERING TRUCKS. USE OF OIL IS STRICTLY PROHIBITED. INLET PROTECTION MUST BE IMPLEMENTED PRIOR TO DUST CONTROL MEASURES.

IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF OIL SHEEN, THE CONTRACTOR SHALL CONTACT THE OHIO E.P.A. AT 800-282-9378, THE LOCAL FIRE DEPARTMENT.

SMALL SPILLS (<25 GALLONS) SHALL BE CLEANED UP USING AN ABSORBING AGENT, THE ABSORBING AGENT REMOVED AND DISPOSED OF ACCORDING TO FEDERAL REGULATIONS.

ALL TRENCH DEWATERING MEASURES SHALL BE DISCHARGED INTO SETTLING BASINS PRIOR TO DISCHARGE FROM SITE. BE'S THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION. SETTLING PONDS MUST BE REPAIRED WITHIN 10 DAYS OF INSPECTION.

STREETS ADJACENT TO SITE SHALL BE CLEANED AT THE END OF EACH WORK DAY.

CONSTRUCTION ENTRANCE NOTE

MINIMIZE TRACKING OF SEDIMENTS BY VEHICLES BY UTILIZING THE CONSTRUCTION ENTRANCE AS THE ONLY ENTRANCE FOR VEHICLES. MAINTAIN THIS ENTRANCE WITH STONE AS NEEDED TO PREVENT DIRT AND MUD FROM TRACKING ONTO THE ROADWAY. REGULAR SWEEPING OF THE ROADWAY MAY BE NECESSARY TO ENSURE ROADWAY DOES NOT BUILD UP WITH SEDIMENTS.

PERMANENT SEEDING

SEED MIX	SEEDING RATE		NOTES
	LB/ACRE	LB/1000 FT. <sup>2</sup>	
GENERAL USE			
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY RYEGRASS	20-40 10-20 20-40	1/2 - 1 1/4 - 1/2 1/2 - 1	FOR CLOSE MOWING & FOR WATERWAYS WITH <2.0 FT/SEC. VELOCITY
TALL FESCUE	40-50	1 - 1 1/4	
TURF-TYPE (DWARF) FESCUE	90	2 1/4	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1 - 1 1/4	
CROWN VETCH TALL FESCUE	10-20 20-30	1/4 - 1/2 1/2 - 3/4	DO NOT SEED LATER THAN AUGUST.
FLAT PEA TALL FESCUE	20-25 20-30	1/2 - 3/4 1/2 - 3/4	
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1 - 1 1/4	
TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS	90 5	2 1/4 0.10	
LAWNS			
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100-200	2 2	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100-200 20-30	2 1 1/2	FOR SHADED AREAS

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

SITE PREPARATION

1. SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY). SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
  2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION AND SEEDING.
  3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION LAND IS BEING DISTURBED TO CONSTRUCT A RESIDENTIAL SUBDIVISION ALONG WITH SITE UTILITIES.
- SEEDBED PREPARATION
1. LIME-- AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER ACRE (1,222 SQ. FT. OR 2 TONS PER ACRE).
  2. FERTILIZER-- FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000 SQ. FT. OR 1,000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSIS.
  3. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.
- SEEDING DATES AND SOIL CONDITIONS
- SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE BELOW FOR DORMANT SEEDING.

DORMANT SEEDINGS

1. SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDINGS":
  - FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
  - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDED, LIME AND FERTILIZER, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
  - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOST SEEDED.
  - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDED SHOULD BE FIRMED FOLLOWING SEEDING OPERATION WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

MULCHING

1. MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPLIED MATERIAL.
2. MATERIALS
  - STRAW--IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000 SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
  - HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
  - OTHER--OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
3. STRAW AND MULCH ANCHORING METHODS

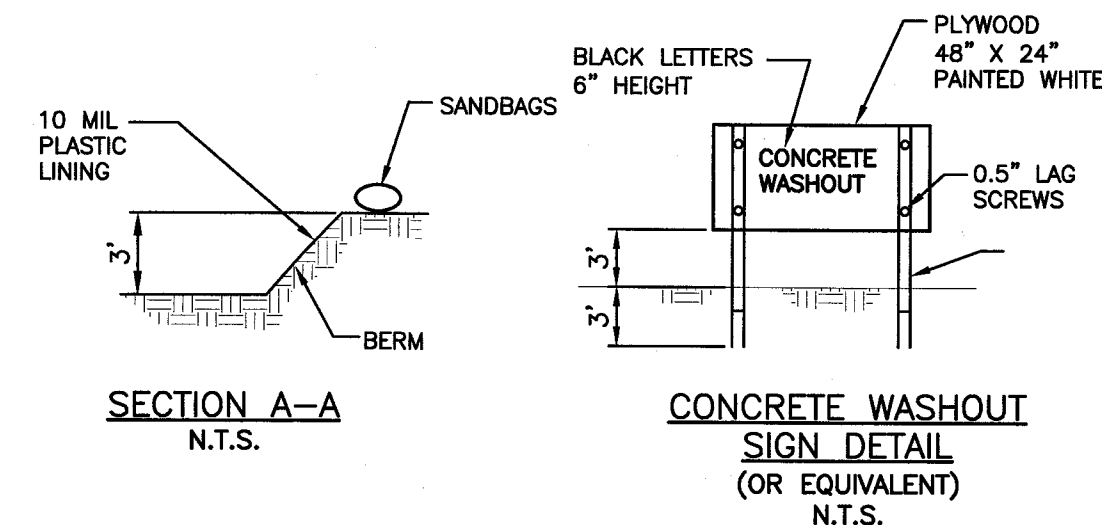
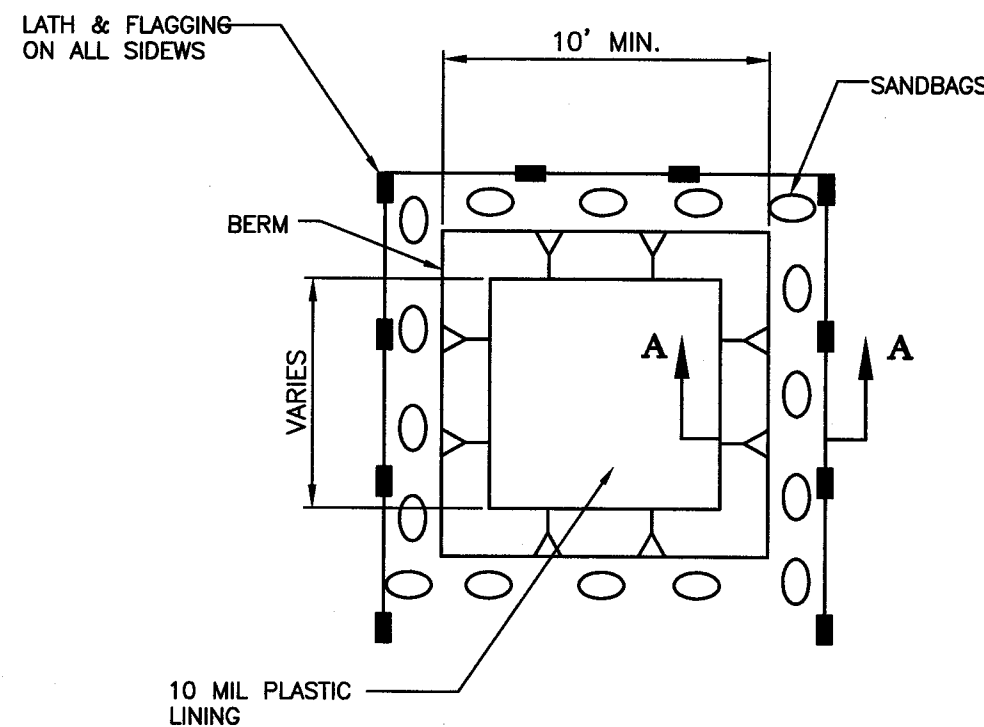
STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

  - MECHANICAL--DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
  - MULCH NETTING--NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
  - ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT A RATE OF 160 GALLONS PER ACRE.
  - SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.
  - WOOD CELLULOSE FIBRE--WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS OF WATER.

IRRIGATION

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VE



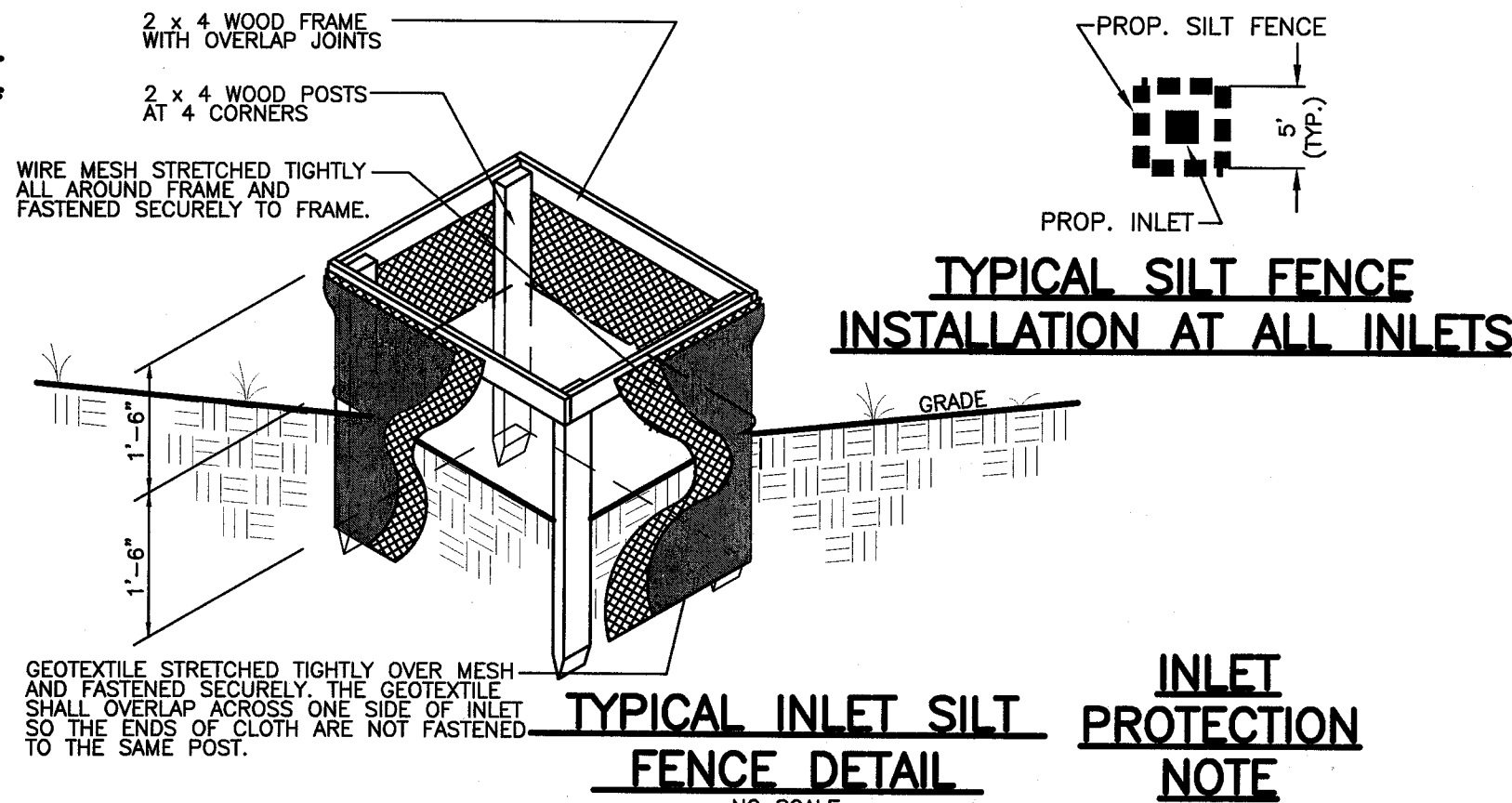


- TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10'.
- LATH & FLAGGING SHALL BE COMMERCIAL TYPE.
- PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- A SIGN SHALL BE INSTALLED ADJACENT TO WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT PROCEDURES.
- WASHOUT OF CONCRETE TRUCKS SHALL BE PERFORMED IN DESIGNATED AREAS ONLY.
- ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASHOUT.
- CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE.
- CONCRETE WASTES SHALL BE ALLOWED TO HARDEN THEN BROKEN UP, REMOVED, AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATION ON A REGULAR BASIS.
- WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.

### TEMP. CONCRETE WASHOUT FACILITY (BELOW GRADE) N.T.S.

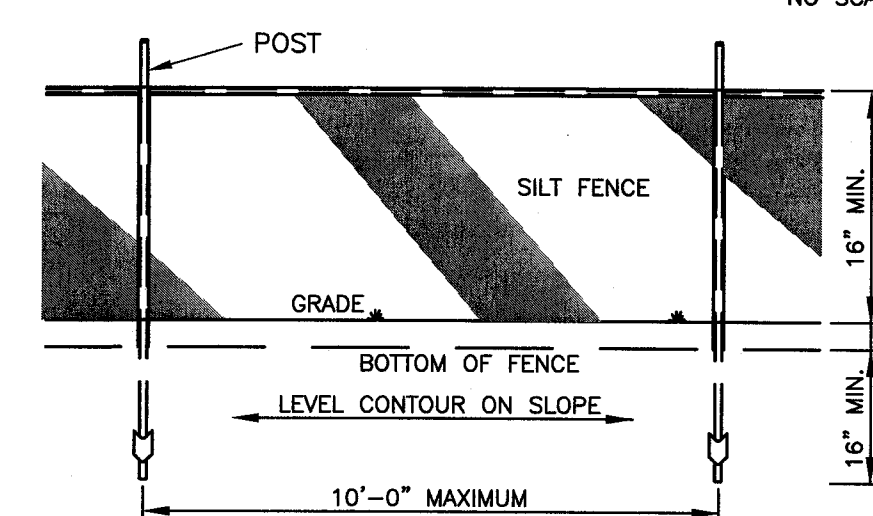
- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF THE FRAME ASSEMBLY USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40- SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

### SILT FENCE

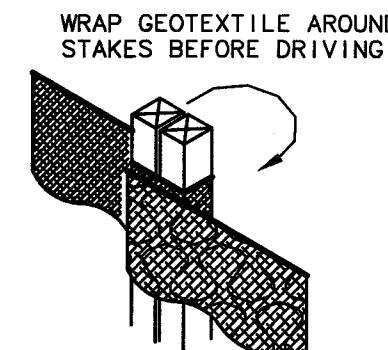


### TYPICAL INLET SILT FENCE DETAIL NO SCALE

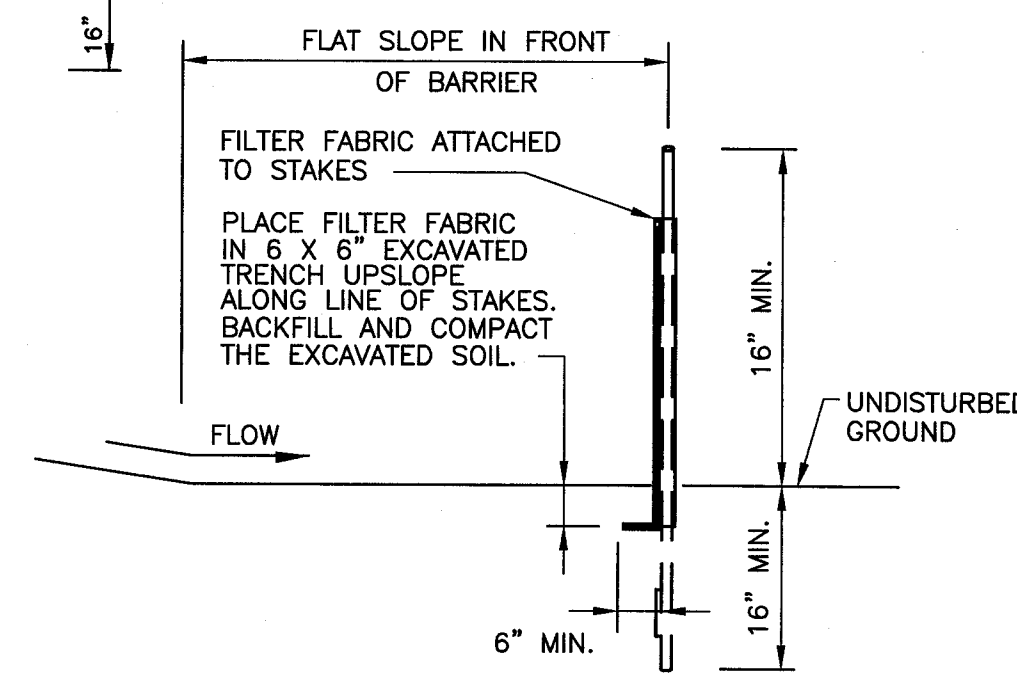
- THE TYPICAL INLET SILT FENCE DETAIL SHALL REMAIN IN PLACE UNTIL PAVEMENT IS ESTABLISHED.
- ONCE PAVEMENT HAS BEEN INSTALLED, THE INLETS WITHIN THE PAVING LIMITS MUST BE FITTED WITH THE "SILTSACK" SEDIMENT CONTROL DEVICE AS MANUFACTURED BY AG ENVIRONMENTAL CONTROL INC., OR APPROVED EQUAL.
- SILT SACK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEED & STABILIZED.



### SILT FENCE DETAIL NO SCALE



### JOINING SECTIONS OF SILT FENCE DETAIL NO SCALE

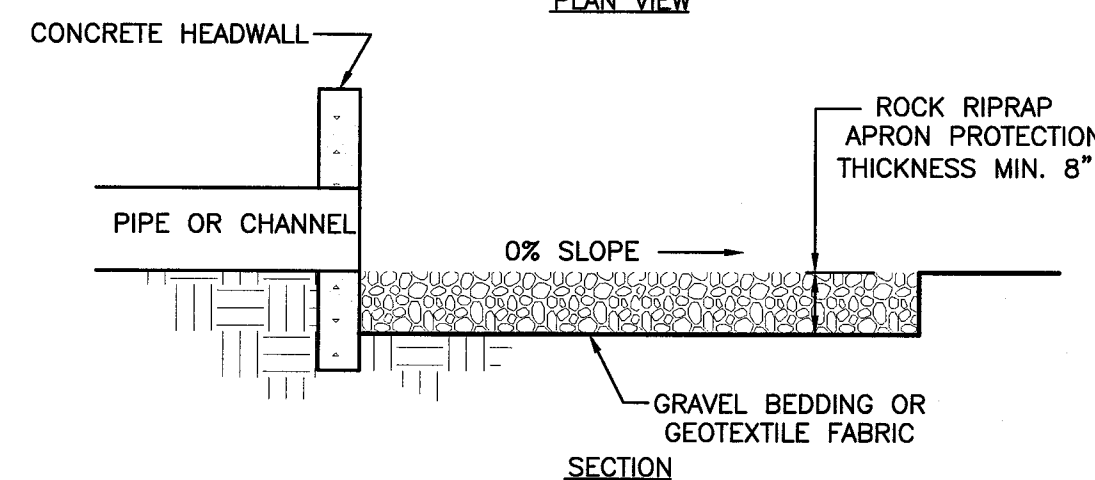
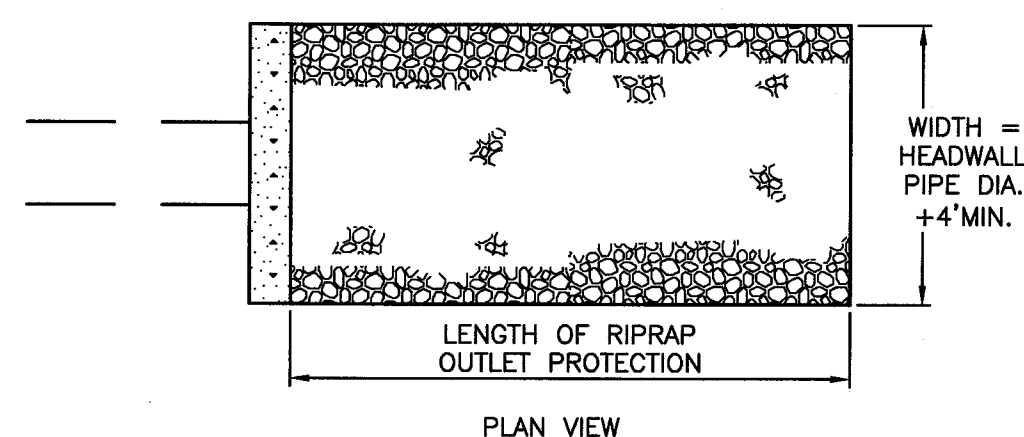


### SILT FENCE SECTION NO SCALE

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./F <sup>2</sup> MAXIMUM	ASTM D 3786
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26

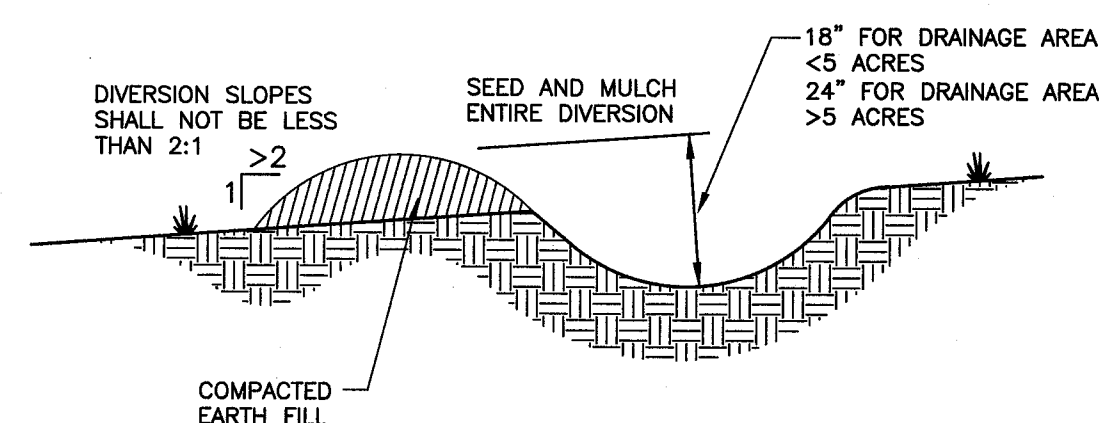
### CRITERIA FOR SILT FENCE MATERIALS

- FENCE POSTS-- THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
- SILT FENCE FABRIC (SEE CHART BELOW):



### ROCK RIPRAP APRON PROTECTION NOT TO SCALE

- SUBGRADE FOR THE FILTER OR BEDDING AND RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOWN ON THE PLAN. THE SUBGRADE SHALL BE CLEARED OF ALL TREES, STUMPS, ROOT, SOD, LOOSE ROCK OR OTHER MATERIAL.
- RIPRAP SHALL CONFORM TO THE GRADING LIMITS SHOWN ON THE PLAN.
- GEOTEXTILE SHALL BE SECURELY ANCHORED ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS.
- GEOTEXTILE SHALL BE LAID WITH THE LONG DIMENSION PARALLEL TO THE DIRECTION OF FLOW AND SHALL BE LAID LOOSELY BUT WITHOUT WRINKLES OR CREASES. WHERE JOINTS ARE NECESSARY, STRIPS SHALL BE PLACED TO PROVIDE A 12 IN. MINIMUM OVERLAP, WITH THE UPSTREAM STRIP OVERLAPPING THE DOWNSTREAM STRIP.
- GRAVEL BEDDING SHALL BE ODOT NO. 67's OR 57's UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
- RIPRAP SHALL BE PLACED BY EQUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT SLIPPAGE OR DAMAGE TO THE GEOTEXTILE.
- RIPRAP SHALL BE PLACED BY A METHOD THAT DOES NOT CAUSE SEGREGATION OF SIZES. EXTENSIVE PUSHING WITH A DOZER CAUSES SEGREGATION AND SHALL BE AVOIDED BY DELIVERING RIPRAP NEAR ITS FINAL LOCATION WITHIN THE CHANNEL.
- CONSTRUCTION SHALL BE SEQUENCED SO THAT OUTLET PROTECTION IS PLACED AND FUNCTIONAL WHEN THE STORM DRAIN, CULVERT, OR OPEN CHANNEL ABOVE IT BECOMES OPERATIONAL.
- ALL DISTURBED AREAS SHALL BECOME VEGETATED AS SOON AS PRACTICAL.



### TEMPORARY DIVERSION NO SCALE

- DRAINAGE AREA SHOULD NOT EXCEED 10 ACRES. LARGER AREAS REQUIRE A MORE EXTENSIVE DESIGN.
- THE CHANNEL CROSS SECTION MAY BE PARABOLIC OR TRAPEZOIDAL. DISK THE BASE OF THE DIKE BEFORE PLACING FILL. BUILD THE DIKE 10% HIGHER THAN DESIGNED FOR SETTLEMENT. THE DIKE SHALL BE COMPACTED BY TRAVERSING WITH TRACKED EARTH-MOVING EQUIPMENT.
- THE MINIMUM CROSS SECTION OF THE LEVEE OR DIKE WILL BE AS FOLLOWS: (MINIMUM DESIGN FREEBOARD SHALL BE 0.30 FOOT). WHERE CONSTRUCTION TRAFFIC WILL CROSS, THE TOP WIDTH MAY BE MADE WIDER AND THE SIDE SLOPES FLATTER THAN SPECIFIED.

DIKE TOP WIDTH (FT.)	HEIGHT (FT.)	SIDE SLOPES	SHAPE
0	1.5	4:1	TRAPEZOIDAL
4	1.5	2:1	PARABOLIC

- THE GRADE MAY BE VARIABLE DEPENDING UPON THE TOPOGRAPHY, BUT MUST HAVE A POSITIVE DRAINAGE TO THE OUTLET AND BE STABILIZED TO BE NON-EROSIVE.
- OUTLET RUNOFF ONTO A STABILIZED AREA, INTO A PROPERLY DESIGNED WATERWAY, GRADE STABILIZATION STRUCTURE, OR SEDIMENT TRAPPING FACILITY.
- DIVERSIONS SHALL BE SEED & MULCHED IN ACCORDANCE WITH THE REQUIREMENTS IN PRACTICE STANDARDS 'TEMPORARY SEEDING' (OR PERMANENT SEEDING) AND MULCHING' AS SOON AS THEY ARE CONSTRUCTED OR OTHER SUITABLE STABILIZATION IN ORDER TO PRESERVE DIKE HEIGHT AND REDUCE MAINTENANCE.

TEMPORARY DIVERSION STABILIZATION TREATMENT			
DIVERSION SLOPE	< 2 AC.	2 - 5 AC.	5 - 10 AC.
0 - 3%	SEED & STRAW	SEED & STRAW	SEED & STRAW
3 - 5%	SEED & STRAW	SEED & STRAW	MATting
5 - 8%	SEED & STRAW	MATting	MATting
8 - 20%	SEED & STRAW	MATting	ENGINEERED

NOTE: DIVERSIONS WITH STEEPER SLOPES OR GREATER DRAINAGE AREAS ARE BEYOND THE SCOPE OF THIS STANDARD AND MUST BE DESIGNED FOR STABILITY. SEED, STRAW AND MATting USED SHALL MEET THE SPECIFICATIONS FOR TEMPORARY SEEDING, MULCHING AND MATting.

**GBC DESIGN, INC.**  
565 White Road Drive Akron, OH 44320-1122  
Phone 330-836-0225 Fax 330-836-0782

**MASSILLON SENIOR LIVING, LTD.**  
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**DANBURY WOODS OF MASSILLON**  
2550 UNIVERSITY DRIVE S.E.  
MASSILLON, OHIO 44646

DRAWN BY:  
J.D.D.

DATE:  
6/20/2014

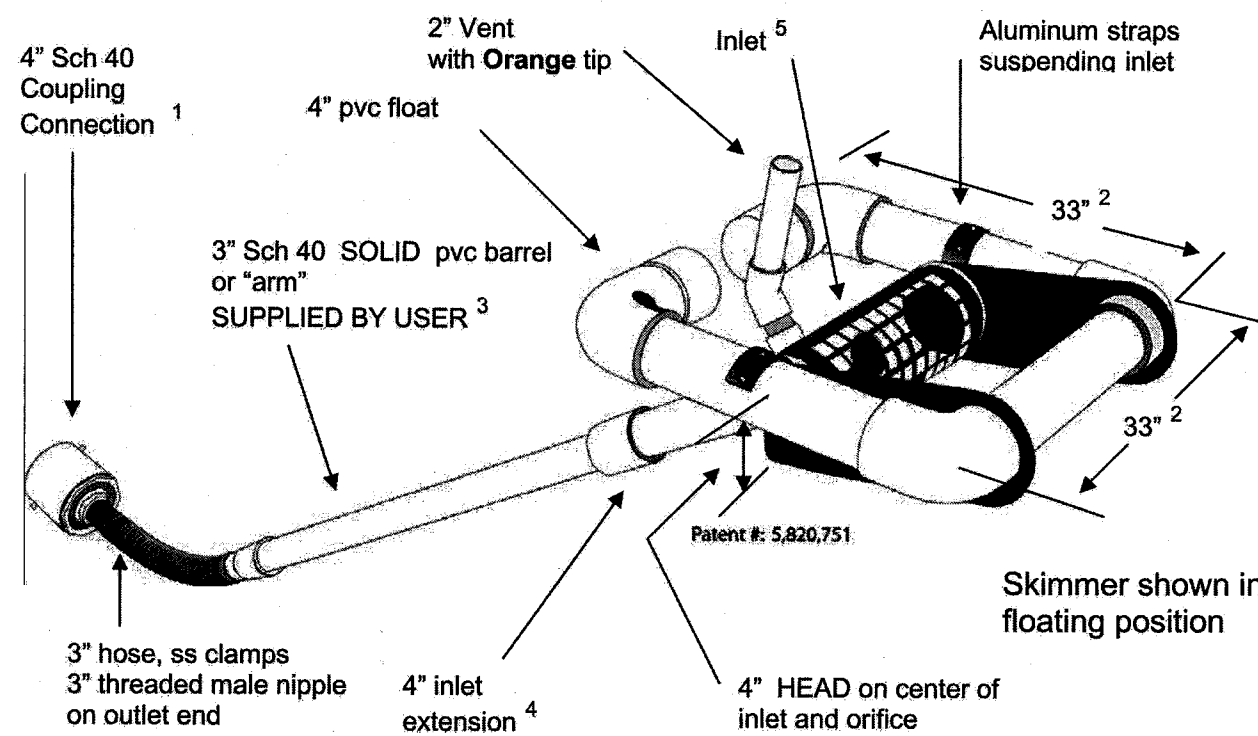
PROJECT NO.  
46178

DRAWING NO.  
SD7.04



# 4" Faircloth Skimmer® Surface Drain Cut Sheet

J. W. Faircloth & Son, Inc.  
www.FairclothSkimmer.com



1. Coupling can be removed and hose attached to outlet using the threaded 3" nipple. Typical methods used: on a metal structure a steel stubout welded on the side at the bottom with a 3" threaded coupling or reducers; on a concrete structure with a hole or orifice at the bottom, use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant. It is possible to grout a 4" pvc pipe in a hole in the concrete to connect the skimmer but this is less secure than other methods.
2. Dimensions are approximate, not intended as plans for construction.
3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 8' so the inlet can be pulled to the side for maintenance. If more than 10' long weight may have to be added to inlet to counter the increased buoyancy.
4. Inlet tapers down from 4" maximum inlet to a 3" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The inlet orifice can be reduced using the plug and cutter provided to control the outflow rate.
5. Inlet is 8" pipe between the straps with slots cut in the inlet and aluminum screen door (smaller than shown in illustration) for access to the 4" inlet and orifice inside.
6. **Capacity** 20,109 cubic feet per day maximum with 4" inlet and 4" head. Inlet can be reduced by installing a smaller orifice using the plug and cutter provided to adjust flow rate for the particular basin volume and drawdown time required.
7. Shipped assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. Includes flexible hose, rope, orifice cutter, etc.

4inchCut TM 11-07

November 14, 2007

\* 3.2" DIA. ORIFICE TO BE PROVIDED FOR 48 HOUR DEWATERING TIME

## Calculate Skimmer Size

Basin Volume in Cubic Feet

24,966 Cu.Ft

Days to Drain\*

2 Days

Skimmer Size

4.0 Inch

Orifice Radius

1.6 Inch[es]

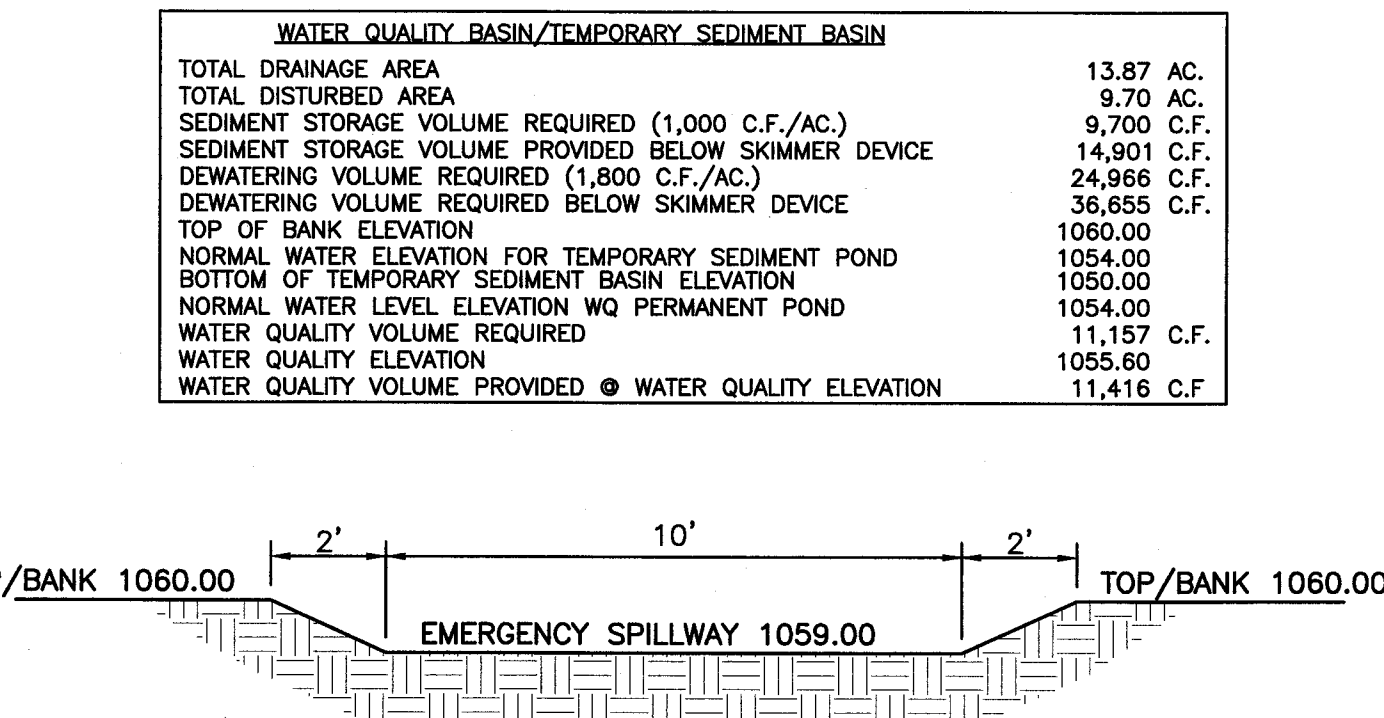
Orifice Diameter

3.2 Inch[es]

\*In NC assume 3 days to drain

## SPECIFICATIONS FOR TEMPORARY ROLLED EROSION CONTROL PRODUCT

1. CHANNEL/SLOPE SOIL PREPARATION GRADE AND COMPACT AREA OF INSTALLATION, PREPARING SEEDBED BY LOOSENING 2" - 3" OF TOPSOIL ABOVE FINAL GRADE. INCORPORATE AMENDMENTS SUCH AS LIME AND FERTILIZER INTO SOIL. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER DEBRIS SO THAT INSTALLED RECP WILL HAVE DIRECT CONTACT WITH THE SOIL SURFACE.
2. CHANNEL/SLOPE SEEDING APPLY SEED TO SOIL SURFACE PRIOR TO INSTALLATION. ALL CHECK SLOTS, ANCHOR TRENCHES, AND OTHER DISTURBED AREAS MUST BE RESEED. REFER TO THE PERMANENT SEEDING SPECIFICATION FOR SEEDING RECOMMENDATIONS.
3. EXCAVATE TOP AND BOTTOM TRENCHES (12" X6"). INTERMITTENT EROSION CHECK SLOTS (6" X6") MAY BE REQUIRED BASED ON SLOPE LENGTH. EXCAVATE TOP ANCHOR TRENCH 2' X 3' OVER CREST OF THE SLOPE.
4. IF INTERMITTENT EROSION CHECK SLOTS ARE REQUIRED, INSTALL RECP IN 6"X6" SLOT AT A MAXIMUM OF 30' CENTERS OR THE MID POINT OF THE SLOPE. RECP SHOULD BE STAPLED INTO TRENCH ON 12" CENTERS.
5. INSTALL RECP IN TOP ANCHOR TRENCH, ANCHOR ON 12" SPACINGS, BACKFILL AND COMPACT SOIL.
6. UNROLL RECP DOWN SLOPE WITH ADJACENT ROLLS OVERLAPPED A MINIMUM OF 3". ANCHOR THE SEAM EVERY 18". LAY THE RECP LOOSE TO MAINTAIN DIRECT SOIL CONTACT; DO NOT PULL TAUGHT.
7. OVERLAP ROLL ENDS A MINIMUM OF 12" WITH UPSLOPE RECP ON TOP FOR A SHINGLE EFFECT. BEGIN ALL NEW ROLLS IN AN EROSION CHECK SLOT IF REQUIRED, DOUBLE ANCHOR ACROSS ROLL EVERY 12".
8. INSTALL RECP IN BOTTOM ANCHOR TRENCH (12"X6"), ANCHOR EVERY 12". PLACE ALL OTHER STAPLES THROUGHOUT SLOPE AT 1 TO 2.5 PER SQUARE YARD DEPENDANT ON SLOPE. REFER TO MANUFACTURER'S ANCHOR GUIDE.



## EMERGENCY SPILLWAY

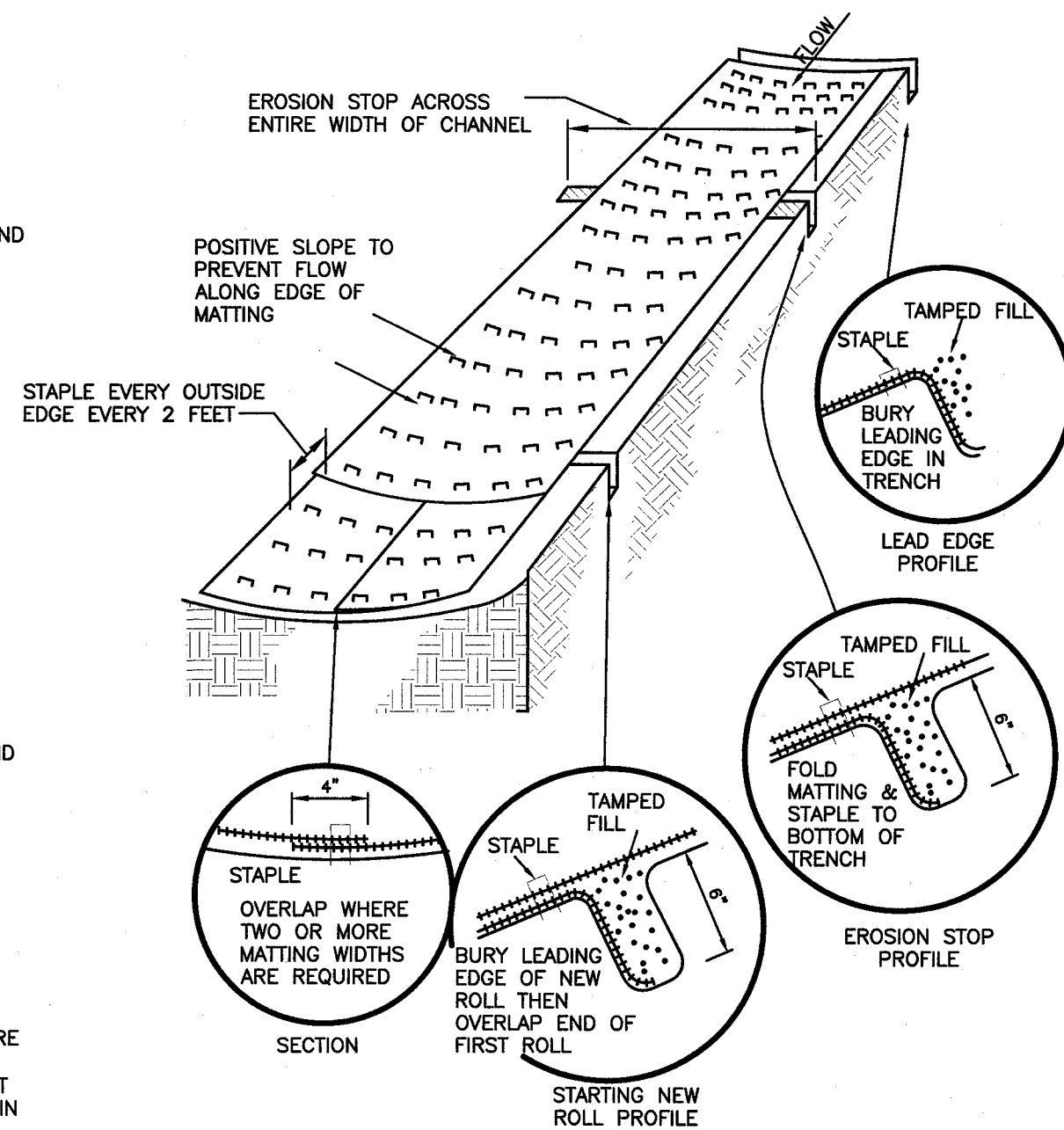
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## SPECIFICATIONS FOR TEMPORARY ROLLED EROSION CONTROL PRODUCT

(continued)

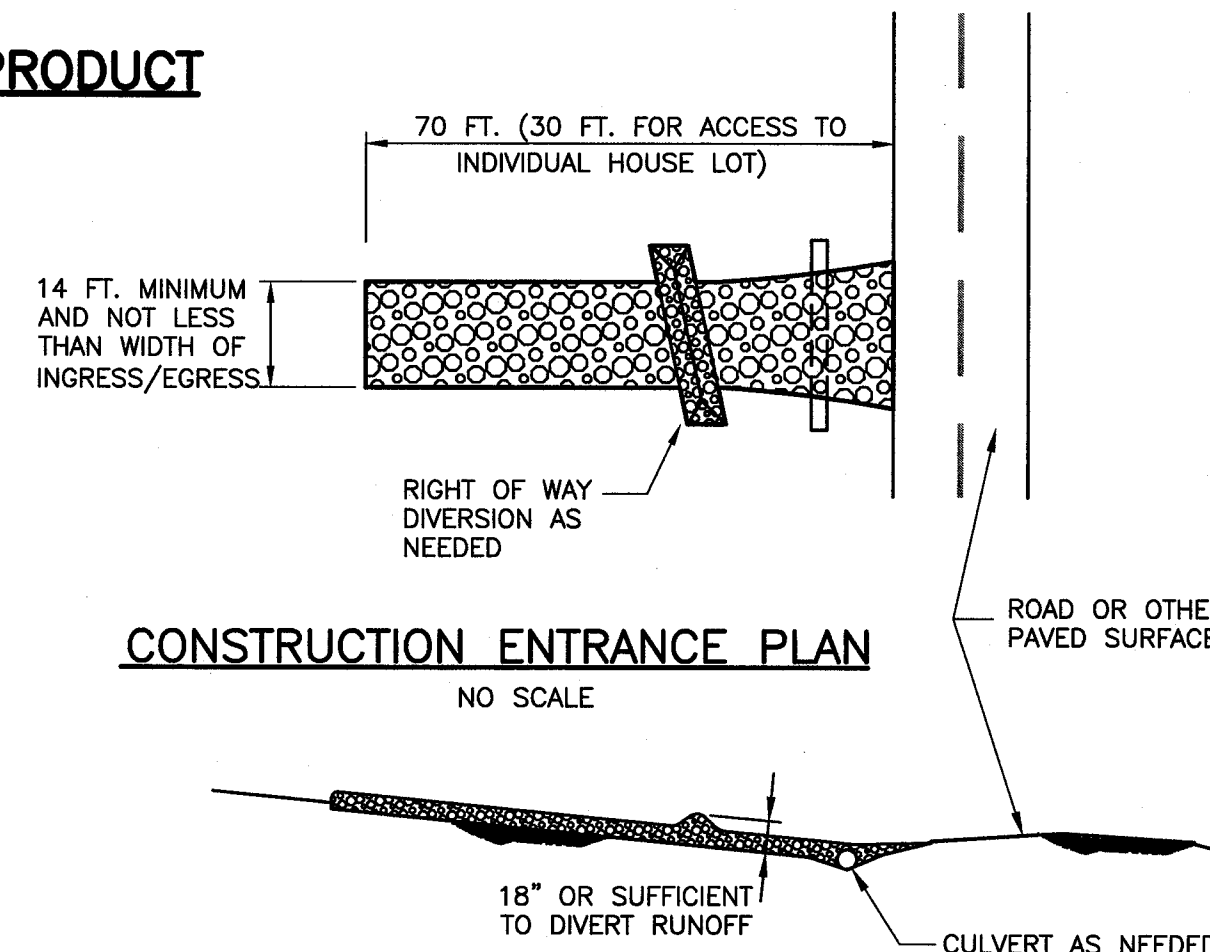
### CHANNEL INSTALLATION

9. EXCAVATE INITIAL ANCHOR TRENCH (12"X6") ACROSS THE LOWER END OF THE PROJECT AREA.
10. EXCAVATE INTERMITTENT CHECK SLOTS (6"X6") ACROSS THE CHANNEL AT 30' INTERVALS ALONG THE CHANNEL.
11. EXCAVATE LONGITUDINAL CHANNEL ANCHOR SLOTS (4"X4") ALONG BOTH SIDES OF THE CHANNEL TO BURY THE EDGES. WHENEVER POSSIBLE EXTEND THE RECP 2' - 3' ABOVE THE CREST OF CHANNEL SIDE SLOPES.
12. INSTALL RECP IN INITIAL ANCHOR TRENCH (DOWNSTREAM) ANCHOR EVERY 12", BACKFILL AND COMPACT SOIL.
13. ROLL OUT RECP BEGINNING IN THE CENTER OF THE CHANNEL TOWARD THE INTERMITTENT CHECK SLOT. DO NOT PULL TAUGHT. UNROLL ADJACENT ROLLS UPSTREAM WITH A 3" MINIMUM OVERLAP (ANCHOR EVERY 18") AND UP EACH CHANNEL SIDE SLOPE.
14. AT TOP OF CHANNEL SIDE SLOPES INSTALL RECP IN THE LONGITUDINAL ANCHOR SLOTS, ANCHOR EVERY 18".
15. INSTALL RECP IN INTERMITTENT CHECK SLOTS LAY INTO TRENCH AND SECURE WITH ANCHORS EVERY 12", BACKFILL WITH SOIL AND COMPACT.
16. OVERLAP ROLL ENDS A MINIMUM OF 12" WITH UPSLOPE RECP ON TOP FOR A SHINGLE EFFECT. BEGIN ALL NEW ROLLS IN AN INTERMITTENT CHECK SLOT, DOUBLE ANCHORED EVERY 12".
17. INSTALL UPSTREAM END IN A TERMINAL ANCHOR TRENCH (12"X6"); ANCHOR EVERY 12", BACKFILL AND COMPACT.
18. COMPLETE ANCHORING THROUGHOUT CHANNEL AT 2.5 PER SQUARE YARD USING SUITABLE GROUND ANCHORING DEVICES (U SHAPED WIRE STAPLES, METAL GEOTEXTILE PINS, PLASTIC STAKES, AND TRIANGULAR WOODEN STAKES). ANCHORS SHOULD BE OF SUFFICIENT LENGTH TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED IN LOOSE SANDY OR GRAVELLY SOILS.



## TEMPORARY ROLLED EROSION CONTROL PRODUCT

NOT TO SCALE



## CONSTRUCTION ENTRANCE PLAN

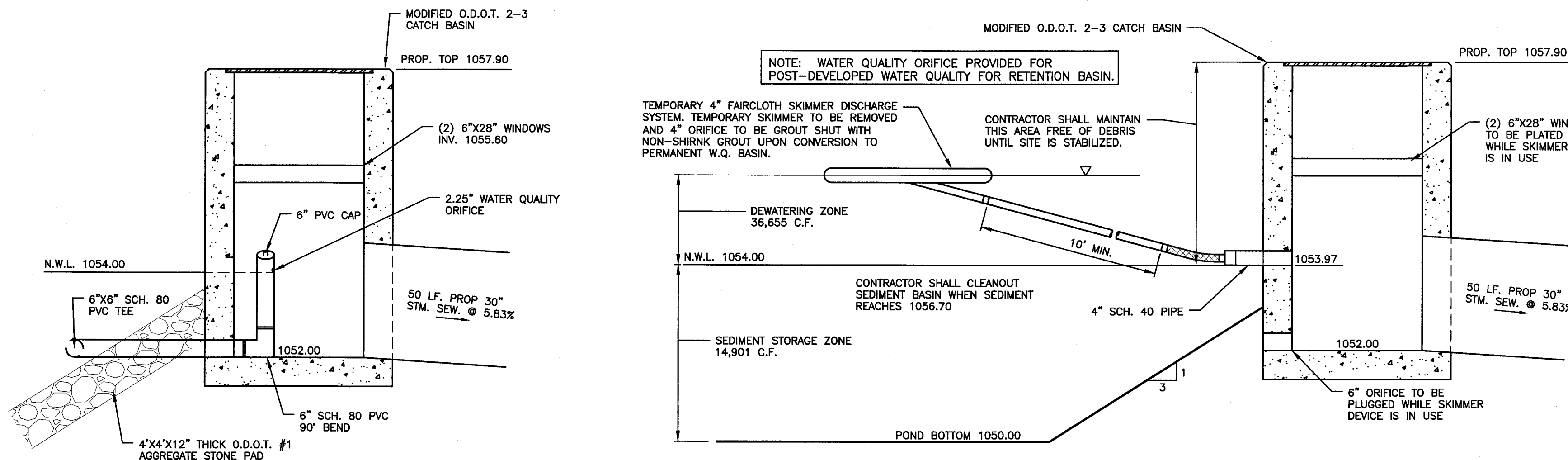
NO SCALE

## CONSTRUCTION ENTRANCE PROFILE

NO SCALE

1. STONE SIZE--ODOT #2 (1.5 - 2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE PAVEMENT.
2. LENGTH--THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOT).
3. THICKNESS--THE STONE LAYER SHALL BE AT LEAST 6-IN. THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10-IN. FOR HEAVY DUTY USE.
4. WIDTH--THE ENTRANCE SHALL BE AT LEAST 14-FT. WIDE, BUT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE--A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
6. TIMING--THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT--A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR--A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE--TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL--THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

GEOTEXTILE SPEC. FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.60 mm
PERMITTIVITY	1x10-3 CM/SEC



## PERMANENT OUTLET STRUCTURE DETAIL

NOT TO SCALE

## TEMPORARY OUTLET STRUCTURE & SKIMMER DETAIL

NOT TO SCALE

REVISIONS

**GBC DESIGN, INC.**  
565 White Road Drive Akron, OH 44320-1128  
Phone 330-596-0228 Fax 330-596-5782

**MASSILON SENIOR LIVING, LTD.**  
1201 S. MAIN ST.  
NORTH CANTON, OH 44720

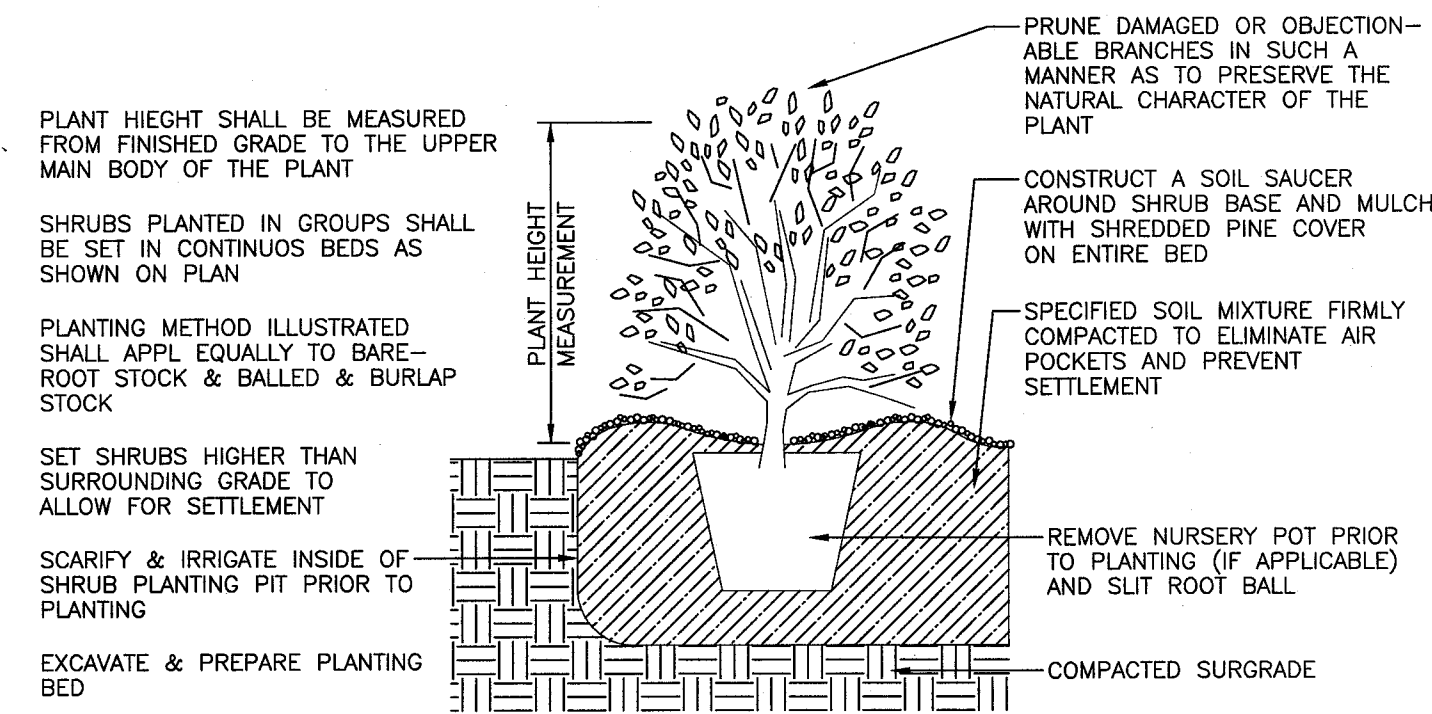
**DANBURY WOODS OF MASSILON**  
2550 UNIVERSITY DRIVE S.E.  
MASSILON, OHIO 44646

SWPPP DETAILS

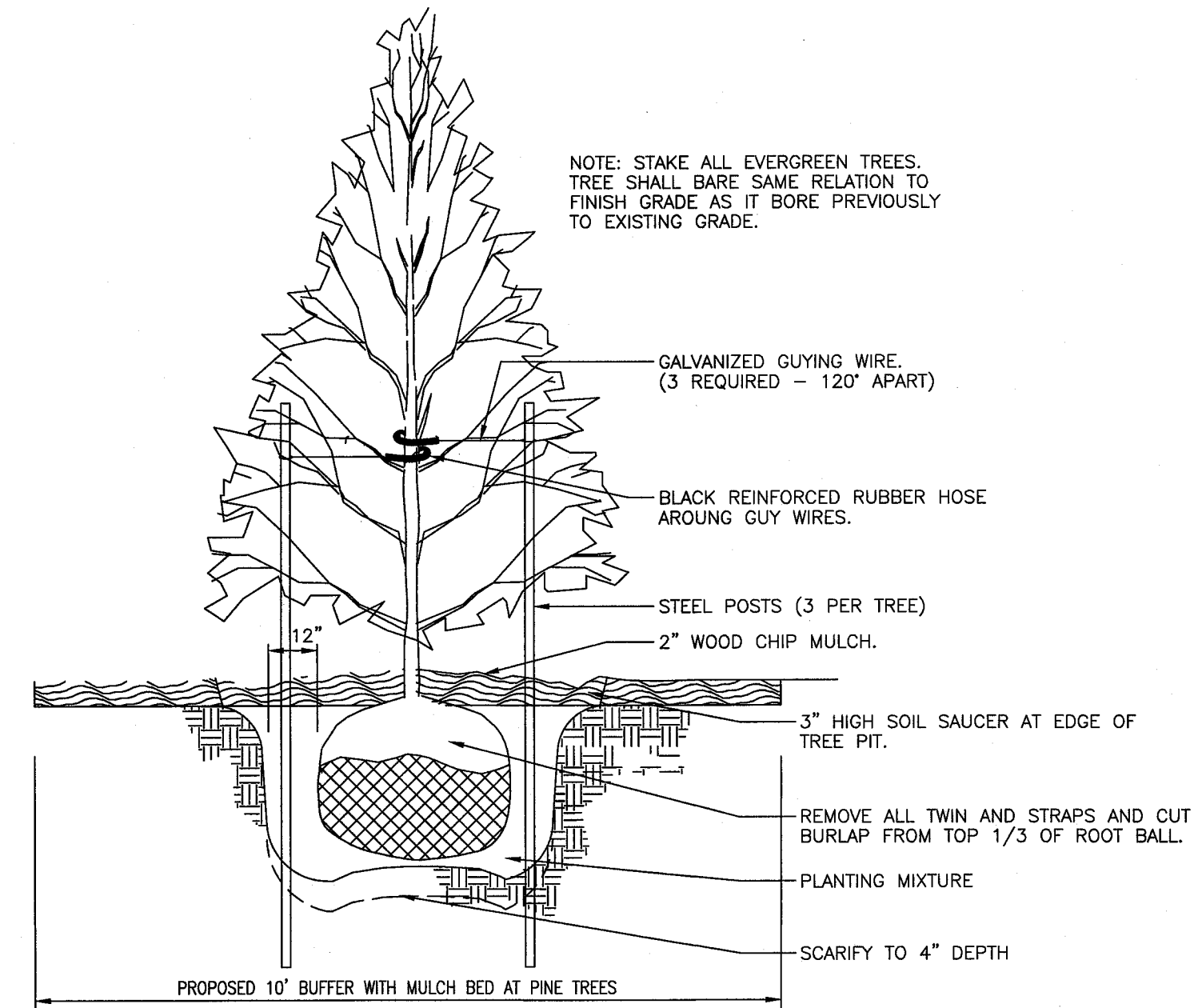
DRAWN BY:  
J.D.D.  
DATE:  
6/20/2014  
PROJECT NO.  
46178  
DRAWING NO.  
SD7.05



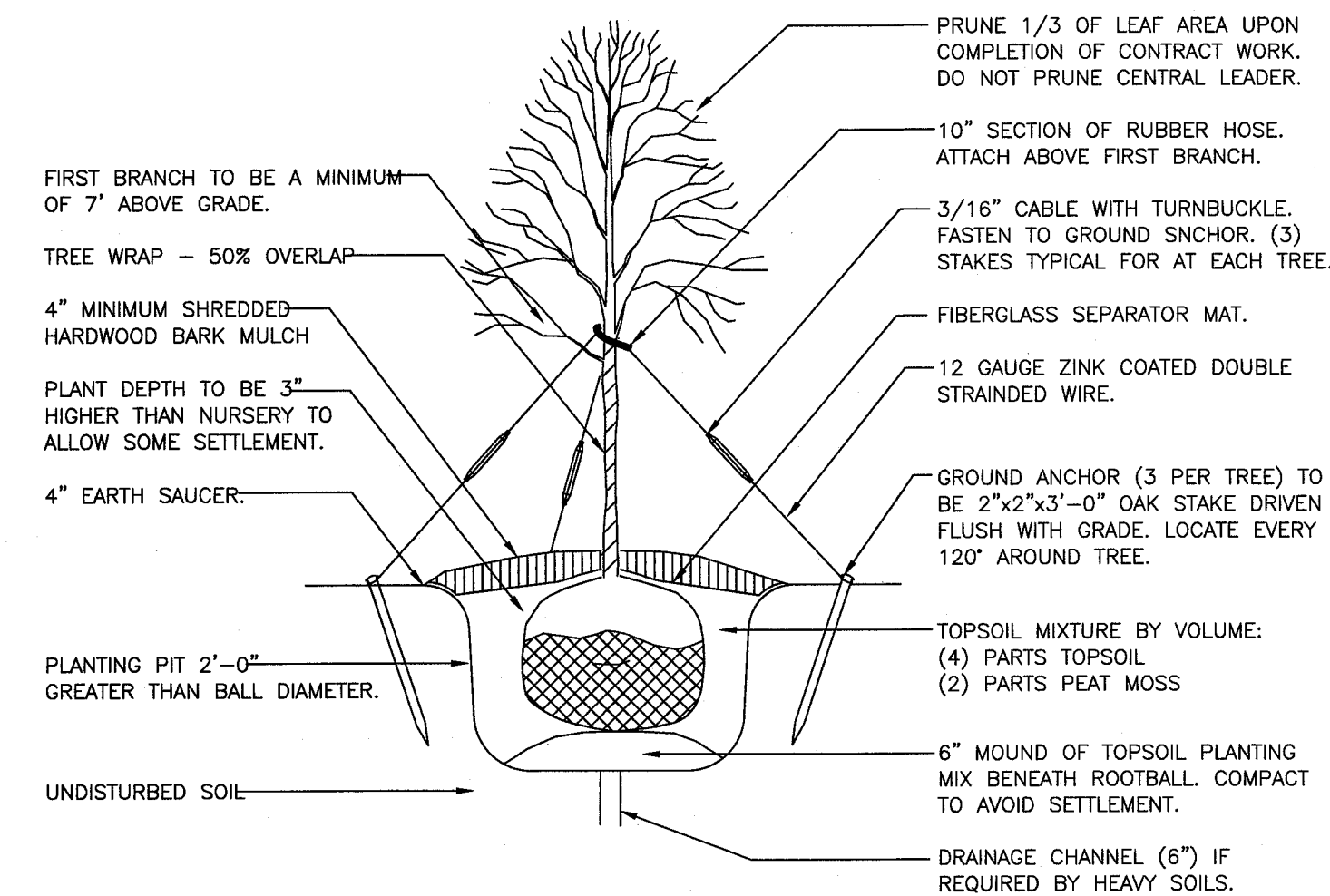




SHRUB PLANTING DETAIL  
TYPICAL SECTION



EVERGREEN TREE PLANTING DETAIL  
TYPICAL INSTALLATION



DECIDUOUS TREE PLANTING DETAIL  
TYPICAL INSTALLATION

**GENERAL LANDSCAPE NOTES:**

- LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
- NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
- FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.
- SHREDDED HARDWOOD MULCH SHALL BE USED AS A FOUR INCH (4") TOP DRESSING IN ALL PLANT BEDS AND AROUND ALL TREES. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND (SEE PLANTING DETAILS).
- ALL LANDSCAPE MATERIALS SHALL BE IN COMPLIANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. (ANSI-Z60J-1986)
- LANDSCAPE CONTRACTOR HAS THE OPTION TO SUBSTITUTE PLANT MATERIAL IF SPECIFIED GENUS, SPECIES, AND/OR VARIETIES ARE NOT LOCALLY OR REGIONALLY AVAILABLE. LANDSCAPE CONTRACTOR SHALL REPLACE SAID PLANTS WITH THOSE OF LIKE HARDNESS, ZONE, SIZE, FORM, MOISTURE AND SOLAR REQUIREMENTS, AND MEET GENERAL INTENT OF THE ORIGINAL DESIGN. ANY REPLACEMENT PLANTINGS SHALL BE APPROVED BY GBC DESIGN, INC. OR CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL BRING FINISH GRADE UP TO TOP OF CURB ELEVATION WITH A MINIMUM OF 4" OF TOPSOIL PRIOR TO PLACEMENT OF SOD.
- ALL LANDSCAPE BEDS AND TREE WELLS SHALL BE INSTALLED WITH A WEED BARRIER. WEED BARRIER SHALL BE A WOVEN POLYPROPYLENE MATERIAL THAT IS 100% OPAQUE TO PREVENT PHOTOSYNTHESIS AND SEED GERMINATION. WEED BARRIER SHALL BE SECURED WITH "U" SHAPED STEEL PINS.
- LANDSCAPE CONTRACTOR SHALL TILL SOIL DIRECTLY AROUND NEW TREE PLANTINGS TO A DEPTH OF 12"-18" AND A DISTANCE OF 3' X ROOT BALL DIAMETER FROM CENTER OF PLANTING HOLE. TILLING SHALL TAKE PLACE PRIOR TO THE TREE PLANTING AND SHALL NOT BE DEEPER THAN THE BOTTOM OF THE PLANTING HOLE.

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**DANBURY WOODS OF MASSILLON**  
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**LANDSCAPING DETAILS**

DRAWN BY:  
J.D.D.

DATE:  
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