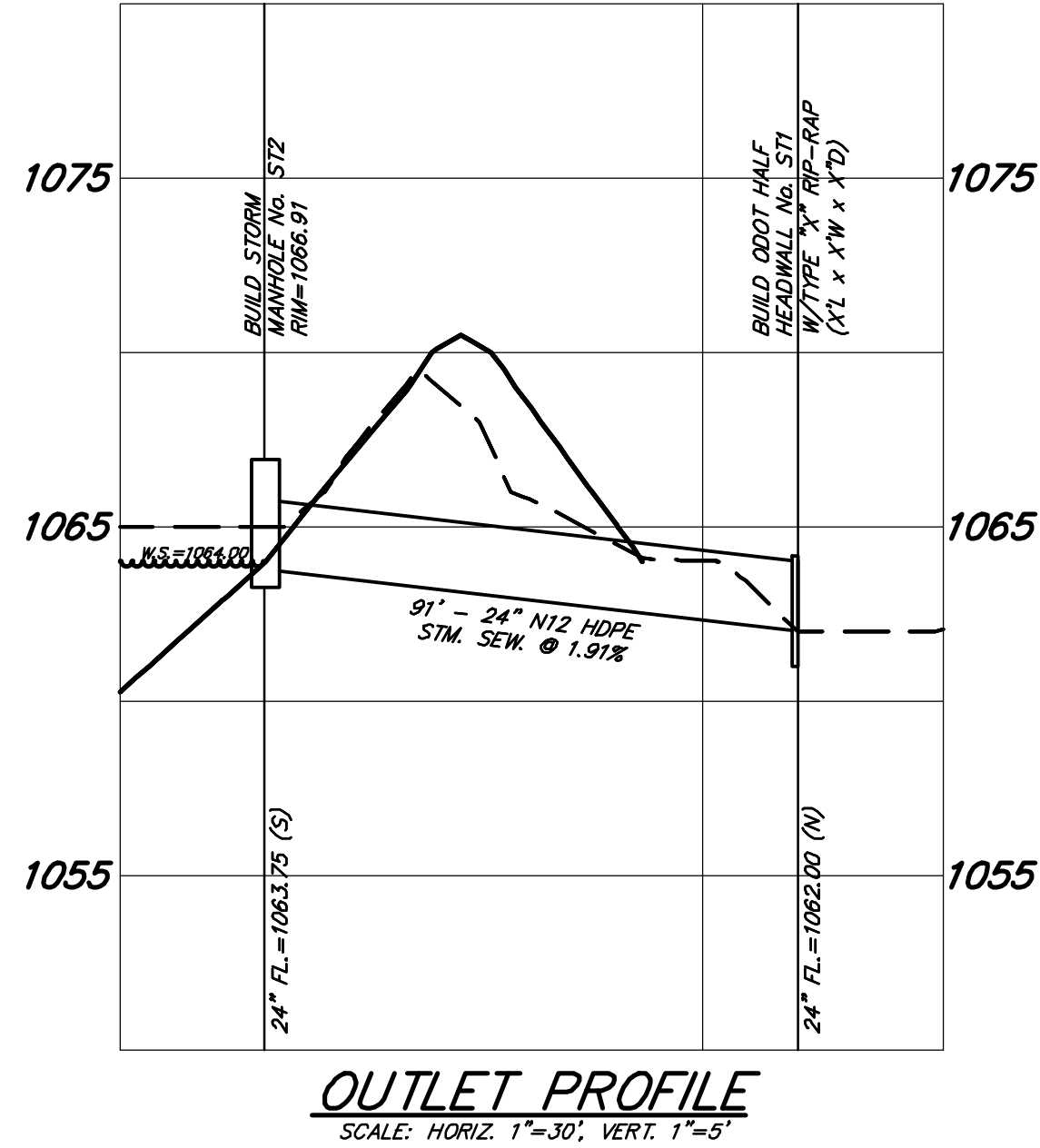
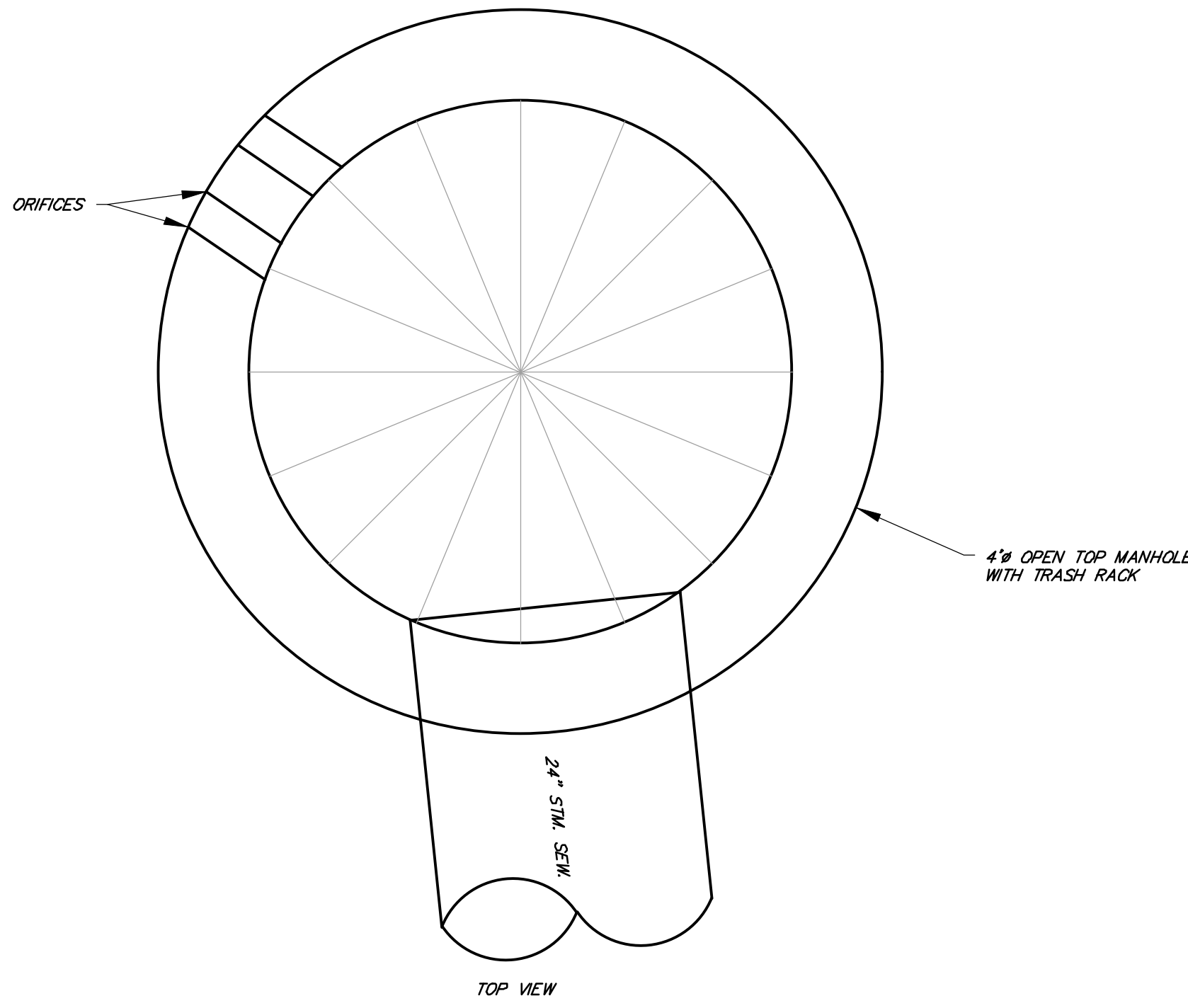
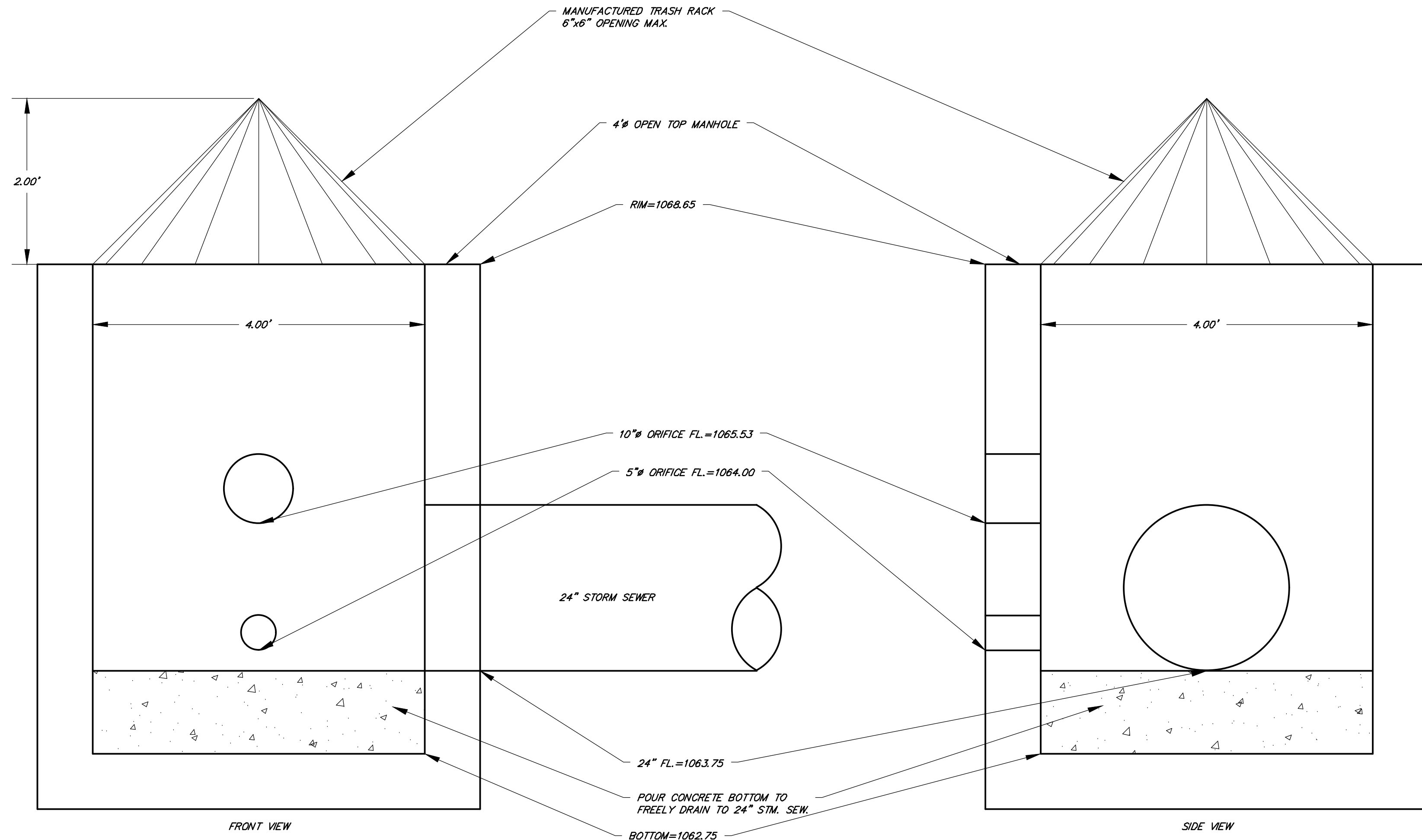


STORMWATER MANAGEMENT BASIN SUMMARY					
STORM EVENT (YEAR)	PRE-DEVELOPED RUN-OFF RATES (C.F.S.)	POST-DEVELOPED RUN-OFF RATES (C.F.S.)	ALLOWABLE RUN-OFF RATES (C.F.S.)	DETENTION BASIN DISCHARGE RATES (C.F.S.)	PEAK STORAGE ELEVATION (FT.)
1	6.47	33.97	6.47	1.39	1065.83
2	11.33	40.38	6.47	2.68	1066.35
5	19.79	54.71	6.47	4.19	1067.05
10	27.89	67.20	6.47	5.11	1067.69
25	40.88	85.85	6.47	6.22	1068.65
50	52.85	101.89	52.85	17.72	1069.09
100	66.23	114.40	66.23	37.56	1069.50

THE CRITICAL STORM WAS CALCULATED TO BE THE 25-YEAR STORM
 WOV REQUIRED BELOW PERMANENT WATER SURFACE = 50,461.57 CUBIC FEET
 (INCLUDES 20% FOR SEDIMENT STORAGE)
 WOV PROVIDED BELOW PERMANENT WATER SURFACE = 81,273 CUBIC FEET
 WOV REQUIRED ABOVE PERMANENT WATER SURFACE = 42,051.31 CUBIC FEET
 WOV PROVIDED ABOVE PERMANENT WATER SURFACE = 42,185.43 CUBIC FEET



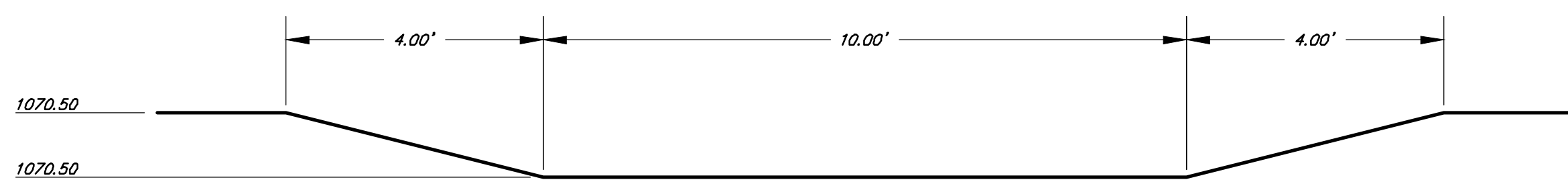
OUTLET PROFILE
 SCALE: HORIZ. 1"=30', VERT. 1"=3'



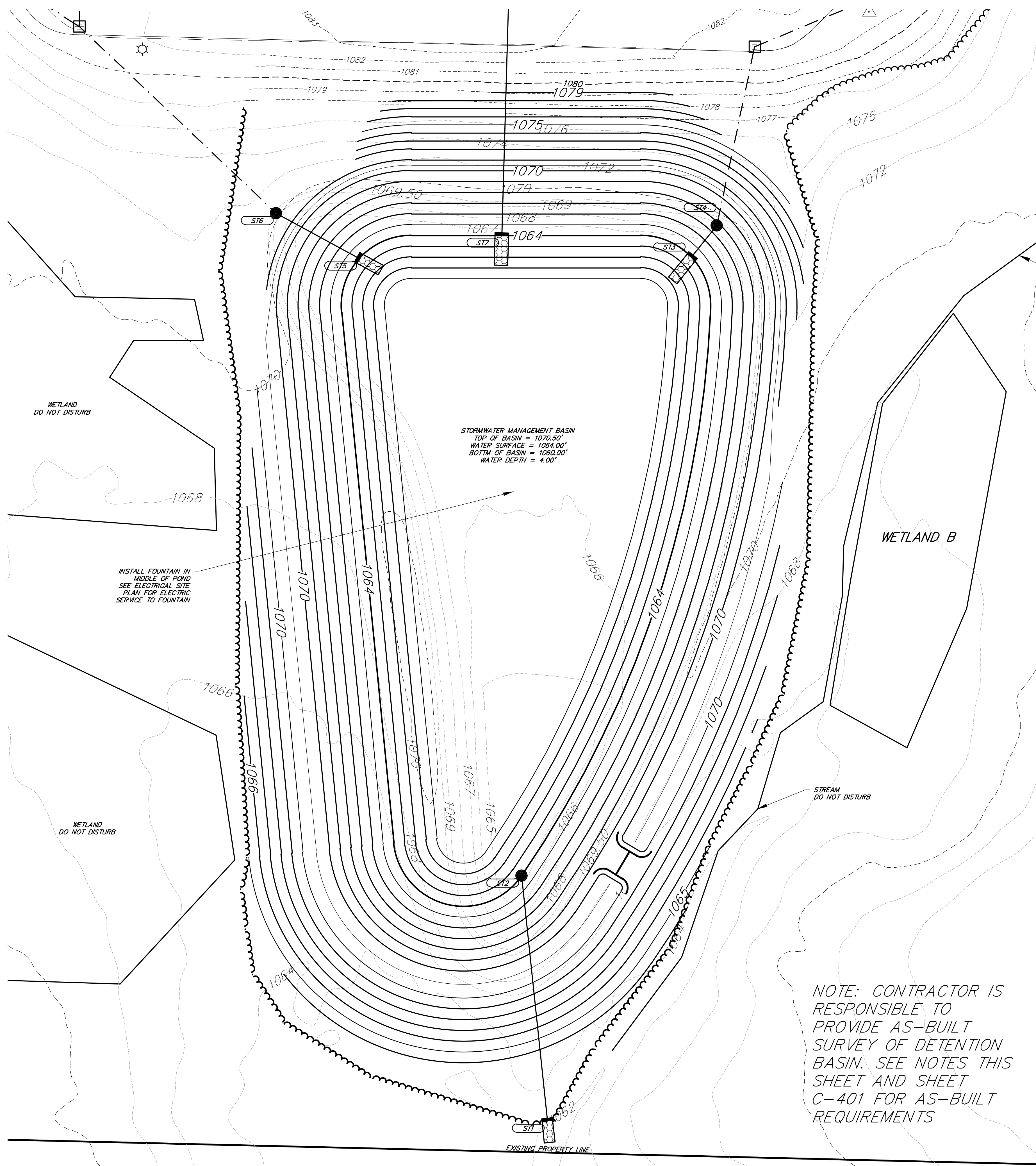
OUTLET STRUCTURE "ST2" DETAIL
 SCALE: HORIZ. 1"=2', VERT. 1"=2'

NOTE: CONTRACTOR SHALL INSTALL FLOATING FOUNTAIN SYSTEM IN MIDDLE OF BASIN FOR WATER QUALITY CONTROL. SEE ELECTRICAL PLANS FOR POWER TO FOUNTAIN. FOUNTAIN SHALL BE OUTDOOR WATER SOLUTIONS EDO LINE 1/2 HP 1500 FOUNTAIN, OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE ALL ITEMS, INCLUDING ANCHOR, INSTALLATION. FOUNTAIN SPRAY SHALL PROVIDE GREATER THAN 50% SURFACE AREA OF THE POND. CONTRACTOR SHALL UPGRADE FOUNTAIN, OR PROVIDE MULTIPLE FOUNTAINS TO MEET INTENDED COVERAGE.

NOTE: THIS STORMWATER MANAGEMENT BASIN IS A WET EXTENDED DETENTION BASIN



EMERGENCY OVERFLOW WEIR
 SCALE: HORIZ. 1"=2', VERT. 1"=2'



STORMWATER MANAGEMENT PLAN
 SCALE: 1"=20'

STORMWATER MANAGEMENT BASIN NOTES

- 1) THE FINAL STORMWATER MANAGEMENT BASIN SHALL NOT BE INSTALLED UNTIL THE END OF THE PROJECT. SEE SHEET C-700 FOR DIRECTION ON USING THE STORMWATER MANAGEMENT BASIN AS A SEDIMENT BASIN WHILE THE SITE IS UNDER CONSTRUCTION.
- 2) THE CONTRACTOR SHALL INSTALL THE STORMWATER MANAGEMENT BASIN AS SHOWN ON THIS PLAN AT THE END OF THE PROJECT.
- 3) THE CONTRACTOR SHALL COMPLETELY DRAIN THE SEDIMENT BASIN PRIOR TO BEGINNING ANY REGRADING ANY PARTS OF THE SEDIMENT BASIN TO ACHIEVE THE FINAL PLAN ELEVATIONS OF THE STORMWATER MANAGEMENT BASIN.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR ALL EXPENSES TO CONVERT THE SEDIMENT BASIN TO THE FINAL STORMWATER MANAGEMENT BASIN, AS SHOWN ON THIS PLAN, INCLUDING BUT NOT LIMITED TO, REGRADING OF THE STORMWATER MANAGEMENT BASIN, MODIFICATION OF THE OUTLET STRUCTURE, CLEANING OF THE OUTLET STRUCTURE AND SITE STORM SEWERS.
- 5) AFTER THE CONSTRUCTION OF THE STORMWATER MANAGEMENT BASIN AND CONVERSION OF THE OUTLET STRUCTURE, THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY STAMPED BY AN OHIO REGISTERED PROFESSIONAL SURVEYOR, IN BOTH PAPER COPY AND ELECTRONIC AUTOCAD FILE, AND STORMWATER MANAGEMENT BASIN AS-BUILT ROUTING CALCULATIONS PREPARED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER, TO THE PROJECT ENGINEER, OR THE STORMWATER MANAGEMENT BASIN AREA AND OUTLET STRUCTURE FOR REVIEW AND ACCEPTANCE OF WORK.
- 6) DEVIATION FROM THE DESIGN ELEVATIONS AND LOCATIONS OF MORE THAN 1/2" VERTICALLY OR 2" HORIZONTALLY FOR THE OUTLET STRUCTURE, INCLUDING RIMS, FLOWS, ORIFICE AND OVERFLOW WEIRS, WILL NOT BE ACCEPTED.
- 7) DEVIATION OF 5% OR GREATER FROM THE DESIGN STORAGE VOLUME AT EACH CONTOUR ELEVATION WILL NOT BE ACCEPTED.
- 8) THE WATER QUALITY VOLUME MUST BE MET IN ITS ENTIRETY.
- 9) THE STORMWATER MANAGEMENT BASIN SHALL NOT AT ANY TIME DISCHARGE STORM WATER AT A HIGHER RATE THAN ANY ALLOWABLE DISCHARGE RATE FOR EACH STORM EVENT.
- 10) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES TO HIRE A PROFESSIONAL SURVEYOR AND PROFESSIONAL ENGINEER TO PERFORM AN AS-BUILT SURVEY AND PERFORM STORMWATER MANAGEMENT BASIN ROUTING CALCULATIONS, AS WELL AS REGRADING THE BASIN TO THE DESIGN ELEVATIONS AND LOCATIONS AND ADJUST OR REPLACE THE OUTLET STRUCTURE UNTIL SAID AS-BUILT DRAWINGS AND CALCULATIONS DEMONSTRATE THAT THE WORK IS COMPLETE AND ACCEPTABLE TO THE PROJECT ENGINEER.
- 11) AS-BUILT DETENTION ROUTING CALCULATIONS ARE REQUIRED. THE AS-BUILT ROUTING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW. ALL CALCULATIONS SHALL INCLUDE PRE-DEVELOPED & POST-DEVELOPED RUNOFF CONDITIONS, WATER QUALITY VOLUME, DRAINAGE CALCULATIONS IN ACCORDANCE WITH THE OHIO EPA GENERAL CONSTRUCTION PERMIT OHIO000000, AS-BUILT DETENTION BASIN RELEASE RATES AND PEAK STORAGE ELEVATIONS, BASED ON THE AS-BUILT POND VOLUME AND OUTLET STRUCTURE(S).
- 12) AT THE END OF THE PROJECT, AFTER FINAL SITE STABILIZATION IS COMPLETE (70% VEGETATIVE COVER ESTABLISHED), THE CONTRACTOR SHALL SUBMIT VIDEO EVIDENCE OF ALL STORM SEWERS AND UNDERGROUND STORMWATER MANAGEMENT CHAMBER SYSTEMS (IF APPLICABLE) TO PROVE THE STORM SEWERS AND UNDERGROUND STORMWATER MANAGEMENT CHAMBER SYSTEMS ARE CLEAR OF ANY SEDIMENT, TRASH OR DEBRIS. EACH STORM RUN AND UNDERGROUND STORMWATER MANAGEMENT CHAMBER SYSTEM RUN (IF APPLICABLE) SHALL BE INSPECTED, IN ACCORDANCE WITH DOT 611.12 REQUIREMENTS, AND A PERFORMANCE REPORT SHALL BE SUBMITTED ALONG WITH THE VIDEO FILES FOR REVIEW IN ACCORDANCE WITH DOT 611.04 D. IF ANY SEDIMENT, TRASH OR DEBRIS IS PRESENT, THE CONTRACTOR SHALL CLEAN THE STORM SEWERS USING THE 4:1-HD PROCESS RECOMMENDED BY THE MANUFACTURE AND RESUBMIT NEW VIDEO EVIDENCE AND PERFORMANCE REPORT OF THE STORM SEWERS, AT AN ADDITIONAL COST TO THE PROJECT.
- 13) IN THE EVENT THE CONTRACTOR FAILS TO PRODUCE ADEQUATE CLOSE OUT DOCUMENTS INCLUDING AS-BUILTS AND VIDEO INSPECTION, THE DESIGN TEAM RESERVES THE RIGHT TO PERFORM AND/OR SUBCONTRACT THE REQUIRED SERVICES REQUIRED TO PRODUCE THE REQUIRED AS-BUILT DOCUMENTS AND VIDEO INSPECTIONS. THE CONTRACTOR WILL THEN BE CHARGED FOR THE COST PLUS TEN PERCENT (10%) THE FEES ASSOCIATED WITH ACQUIRING THE REQUIRED DOCUMENTS.

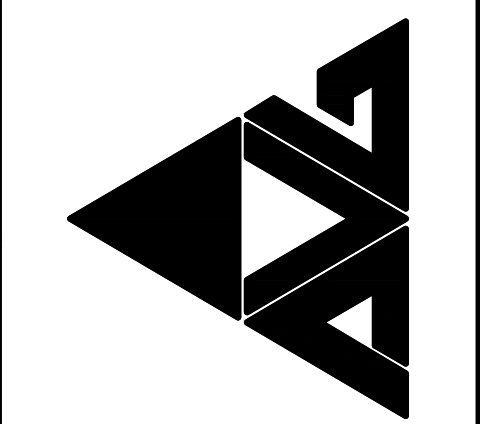
STORMWATER MANAGEMENT BASIN STORAGE (ABOVE PERMANENT POOL)	
ELEVATION (FEET)	VOLUME (CUBIC FEET)
1064	0
1065	26,628
1066	55,981
1067	88,160
1068	123,264
1069	181,384
1070	253,651
1070.50	294,869
STORMWATER MANAGEMENT BASIN STORAGE (PERMANENT POOL)	
ELEVATION (FEET)	VOLUME (CUBIC FEET)
1060	0
1061	16,733
1062	35,789
1063	57,269
1064	81,273

The "Basis of Bearings" for this survey is Grid North of the Ohio State Plane Coordinate System, NAD83(2011), North Zone as established by GPS Observations.

GRAPHIC SCALE
 1 inch = 20 ft

PROJECT NO
 2203-1

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 WEST SIDE CAMPUS
 250 29th St NW, Massillon, OH 44647

PROJECT NO	2203-1
DRAWN BY	
CHECKED BY	
DATE	09/14/2022
DESIGNER	PLAN REVIEW & EFP
DATE	09/14/2022
DESCRIPTION	ISSUED TO OWNER SITE PREP WORK

STORMWATER
 MANAGEMENT
 BASIN PLAN

SCALE: 1"=20'
 SHEET NO
 C-701

— PLAN PREPARED BY —
 LEWIS LAND PROFESSIONALS INC.

CIVIL ENGINEERING LAND SURVEYING
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