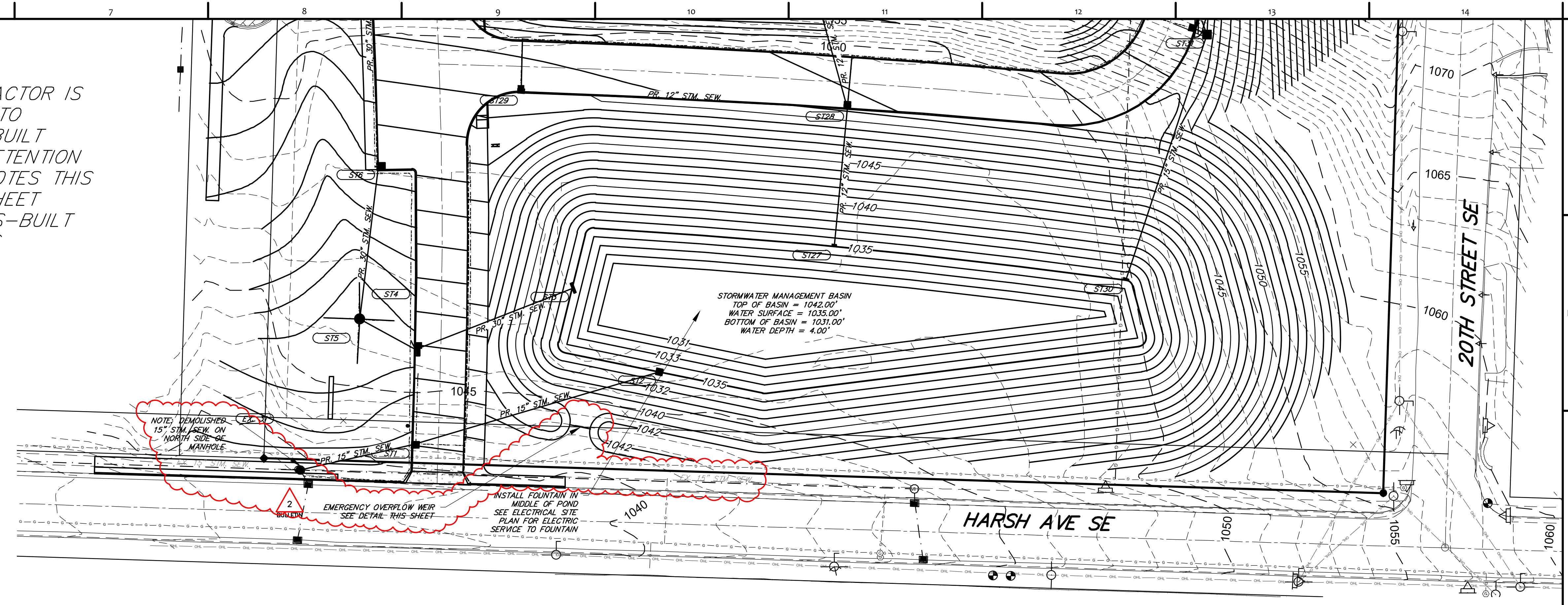


NOTE: CONTRACTOR IS RESPONSIBLE TO PROVIDE AS-BUILT SURVEY OF DETENTION BASIN. SEE NOTES THIS SHEET AND SHEET C-401 FOR AS-BUILT REQUIREMENTS



STORMWATER MANAGEMENT BASIN NOTES

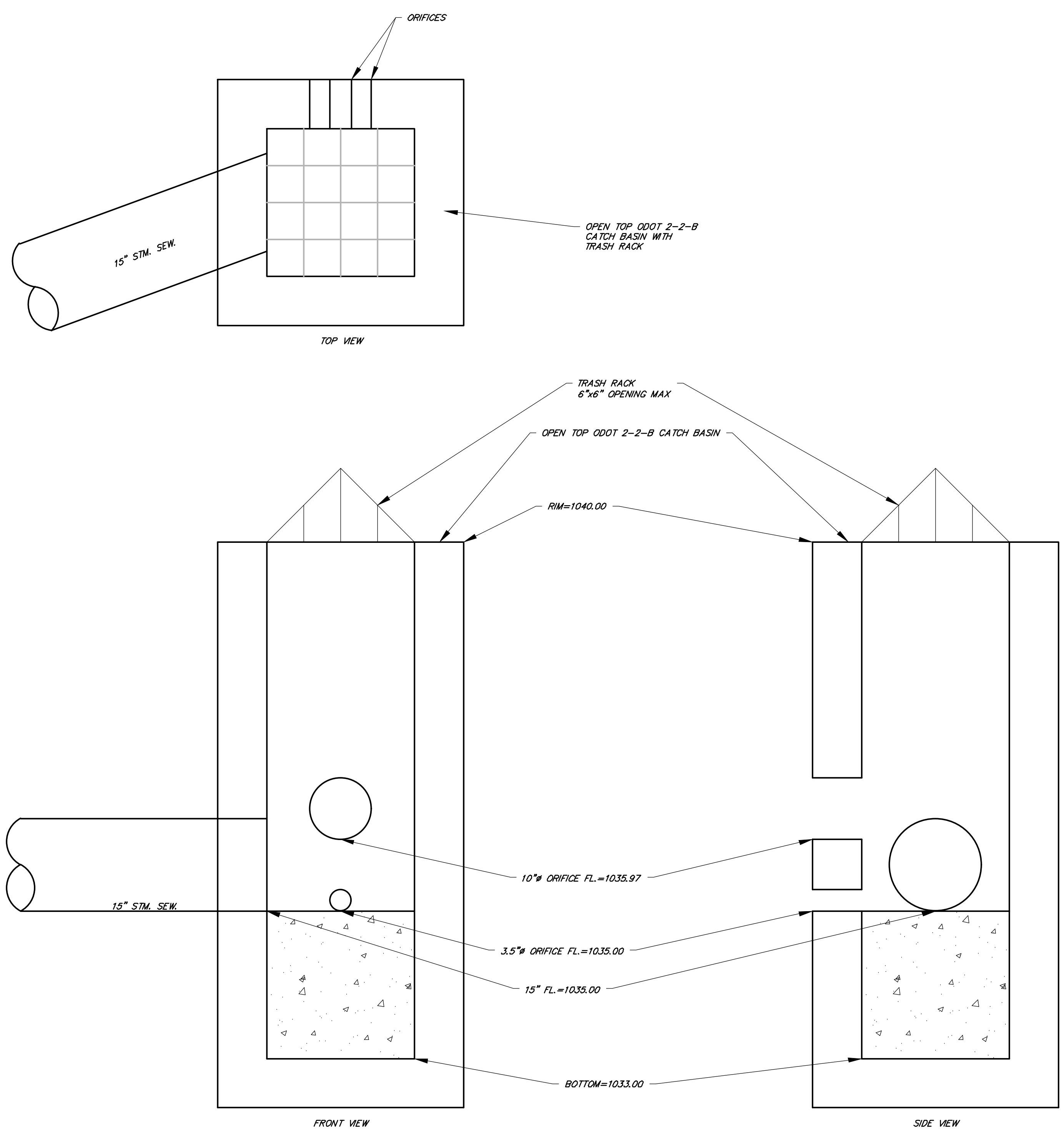
- 1) THE FINAL STORMWATER MANAGEMENT BASIN SHALL NOT BE INSTALLED UNTIL THE END OF THE PROJECT. SEE SHEET C-700 FOR DIRECTION ON USING THE STORMWATER MANAGEMENT BASIN AS A SEDIMENT BASIN WHILE THE SITE IS UNDER CONSTRUCTION.
- 2) THE CONTRACTOR SHALL INSTALL THE STORMWATER MANAGEMENT BASIN AS SHOWN ON THIS PLAN AT THE END OF THE PROJECT.
- 3) THE CONTRACTOR SHALL COMPLETELY DENATE 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 OULET STRUCTURE, CLEANING OF THE OULET STRUCTURE AND SITE STORM SEWERS.
- 5) AFTER THE CONSTRUCTION OF THE STORMWATER MANAGEMENT BASIN AND CONVERSION OF THE OULET STRUCTURE, THE CONTRACTOR SHALL PROVIDE AN ASBUILT SURVEY STAMPED BY AN OHIO REGISTERED PROFESSIONAL SURVEYOR, IN BOTH PAPER COPY AND ELECTRONIC AUTOCAD FILE, TO THE PROJECT OWNER, OF THE ENTIRE SITE, INCLUDING STORMWATER MANAGEMENT BASIN AREA AND OULET STRUCTURE FOR REVIEW AND ACCEPTANCE OF WORK.
- 6) DEVIATION FROM THE DESIGN ELEVATIONS AND LOCATIONS OF MORE THAN 1/8" VERTICALLY OR 1" HORIZONTALLY FOR THE OULET STRUCTURE, INCLUDING RIMS, FLOWLINES, ORIFICE AND OVERFLOW WEIRS, WILL NOT BE ACCEPTED.
- 7) DEVIATION OF 1% 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 IN ACCORDANCE WITH THE OHIO EPA GENERAL CONSTRUCTION PERMIT OH0000006.
- 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 TO PERFORM AN ASBUILT SURVEY, AS WELL AS REGRADE THE BASIN TO THE DESIGN ELEVATIONS AND LOCATIONS AND ADJUST OR REPLACE THE OULET STRUCTURE UNTIL SAID ASBUILT DRAWINGS DEMONSTRATE THAT THE WORK IS COMPLETE AND ACCEPTABLE TO THE PROJECT ENGINEER.
- 11) 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 TO PROVIDE THE STORM SEWERS ARE CLEAR OF ANY SEDIMENT, TRASH OR DEBRIS. EACH STORM RUN SHALL BE INSPECTED, IN ACCORDANCE WITH ODOT 611.12 REQUIREMENTS, AND A PERFORMANCE REPORT SHALL BE SUBMITTED ALONG WITH THE VIDEO FILES FOR REVIEW IN ACCORDANCE WITH ODOT 611.04 D. IF ANY SEDIMENT, TRASH OR DEBRIS IS PRESENT, THE CONTRACTOR SHALL CLEAN THE STORM SEWERS USING THE JET-VAC PROCESS RECOMMENDED BY THE MANUFACTURER AND RESUBMIT NEW VIDEO EVIDENCE AND PERFORMANCE REPORT OF THE STORM SEWERS, AT TO ADDITIONAL COST TO THE PROJECT.
- 11) IN THE EVENT THE CONTRACTOR FAILS TO PRODUCE ADEQUATE CLOSE OUT DOCUMENTS INCLUDING ASBUILTS AND VIDEO INSPECTION, THE DESIGN TEAM RESERVES THE RIGHT TO PERFORM AND/OR SUBCONTRACT THE REQUIRED SERVICES REQUIRED TO PRODUCE THE REQUIRED ASBUILT 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 PLAN

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.)	DEFENTION BASIN DISCHARGE RATES (C.F.S.)	PEAK STORAGE ELEVATION (FT)
1	13.57	17.69	13.57	1.32	1036.58
2	18.96	23.31	13.57	2.58	1036.85
5	27.50	31.82	13.57	3.64	1037.58
10	35.16	39.45	13.57	4.37	1038.14
25	47.00	50.79	47.00	5.20	1038.85
50	57.37	60.51	57.37	5.74	1039.61
100	68.73	71.07	68.73	6.18	1040.23

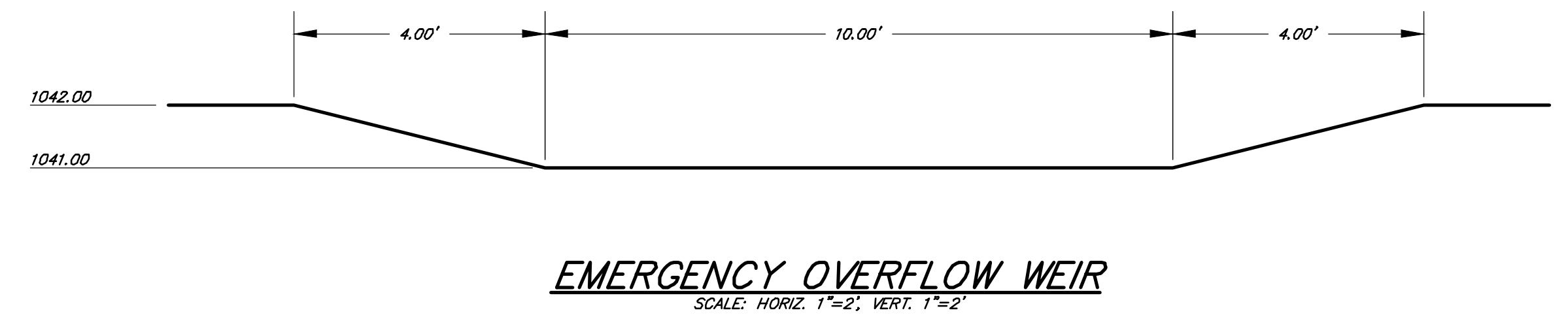
THE CRITICAL STORM WAS CALCULATED TO BE THE 5-YEAR STORM
MOV REQUIRED BELOW PERMANENT WATER SURFACE - 18,217.53 CUBIC FEET
(INCLUDES STORAGE FOR SEDIMENT STORAGE)
MOV PROVIDED BELOW PERMANENT WATER SURFACE - 42,408 CUBIC FEET
MOV REQUIRED ABOVE PERMANENT WATER SURFACE - 16,014.61 CUBIC FEET
MOV PROVIDED ABOVE PERMANENT WATER SURFACE - 16,008.53 CUBIC FEET

STORMWATER MANAGEMENT BASIN STORAGE (ABOVE PERMANENT POOL)	
ELEVATION (FEET)	VOLUME (CUBIC FEET)
1035	0
1036	16,607
1037	35,827
1038	57,761
1039	82,569
1040	110,172
1041	140,849
1042	174,643
STORMWATER MANAGEMENT BASIN STORAGE (PERMANENT POOL)	
ELEVATION (FEET)	VOLUME (CUBIC FEET)
1031	0
1032	7,231
1033	16,629
1034	28,315
1035	42,408



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 EDD LINE 1/2 HP 115V FLOATING POND FOUNTAIN, OR APPROVED EQUAL. CONTRACTOR SHALL PROVIDE ALL ITEMS, INCLUDING ANCHOR, INSTALLED. 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

