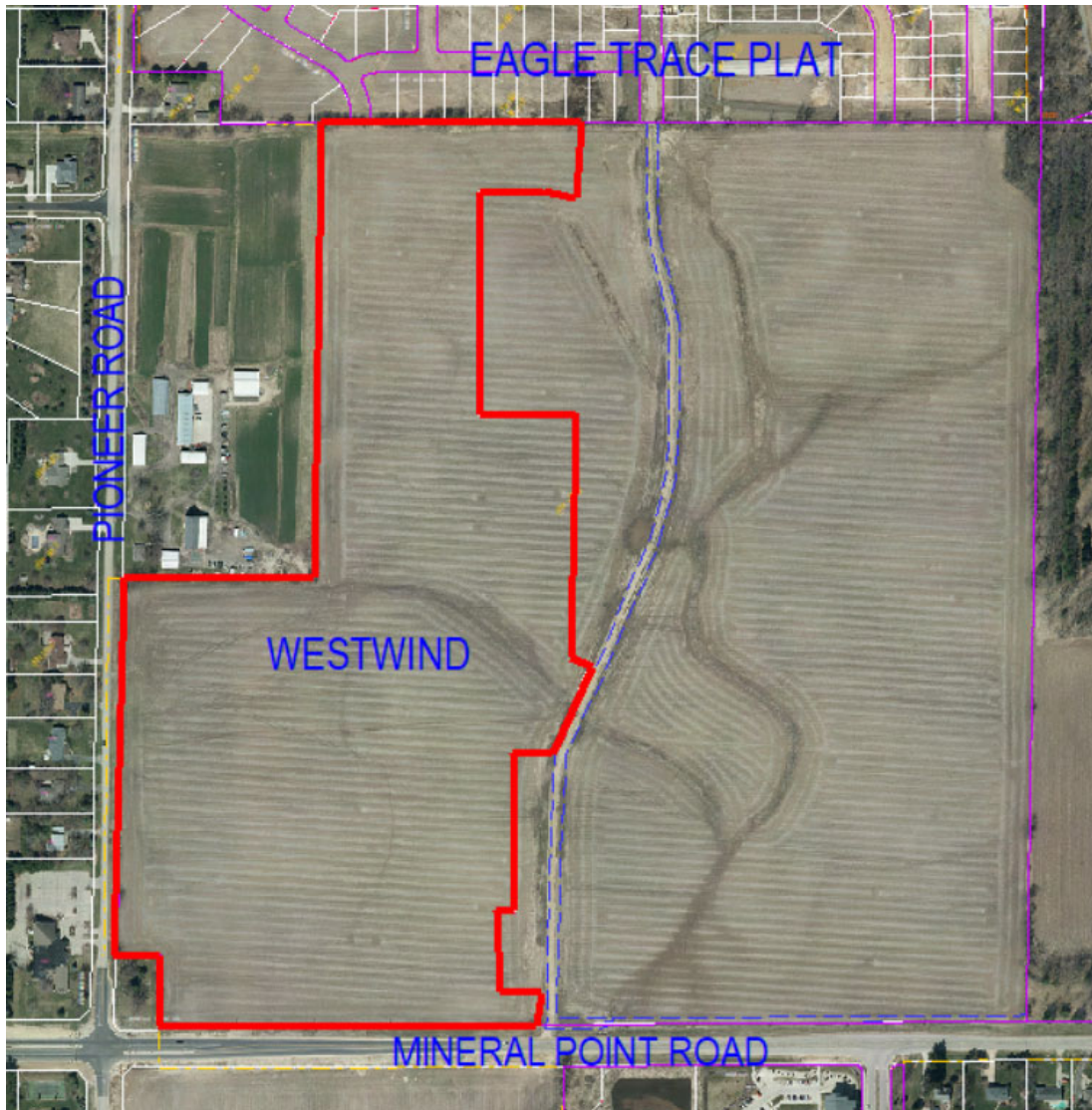


Westwind – Stormwater Management (Contract 9130, MUNIS 13921)

Developer: Westwind



Summary of Improvements:

- Stormwater Management Improvements to serve the Westwind plat
- Infiltration basin 4A
- Wet retention ponds 4B & 4C
- Temporary 36-inch culvert and grading to convey storm flows outside the plat limits

ADDENDUM No. 2: Developer to conduct double ring infiltrometer tests to confirm stormwater basins function as described in the stormwater management report associated with the project and to provide as-built drawings for the wet detention basins constructed under the contract that are acting as sediment basins for contract 9386, Westwind Phase 2.

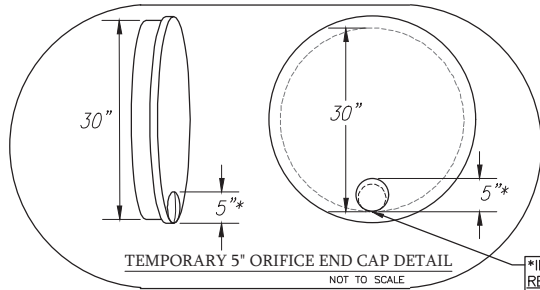


CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

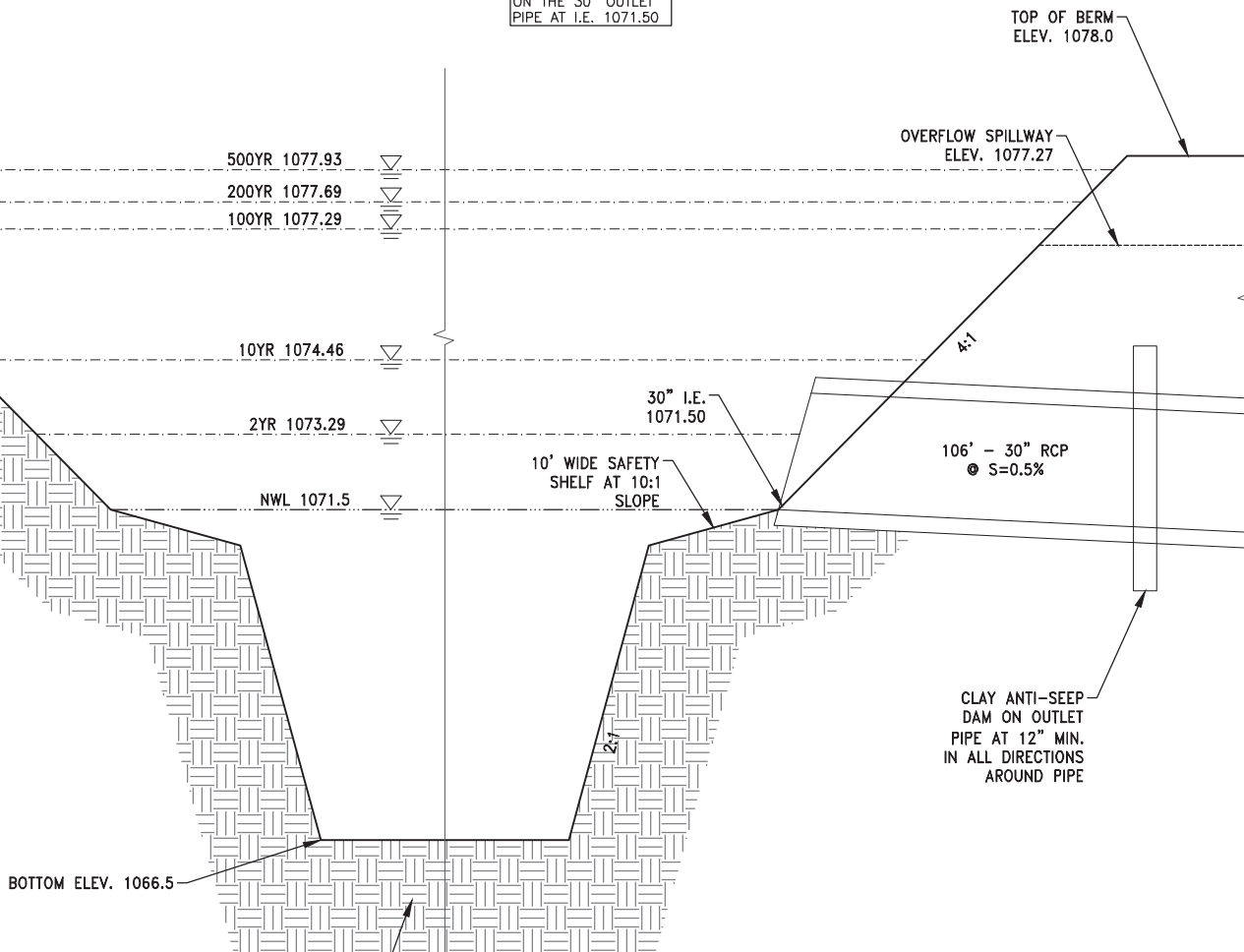
NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

STABILIZATION & SEEDING NOTE:
ALL DISTURBED AREA ABOVE PERMANENT WATER SURFACE ELEVATION SHALL BE STABILIZED WITH POLYMER, EROSION MATTING CLASS I TYPE B ORGANIC, AND DETENTION BASIN SEEDING PER CITY OF MADISON STANDARD SPECIFICATIONS.

CLAY LINER NOTE:
-2" THICK CLAY LINER IN ACCORDANCE WITH WDNR TECH. STD. 1001 TYPE B, AND SOILS REPORT.
-CLAY LINER MATERIALS SHOULD BE COMPACTED TO A MINIMUM OF 90 TO 92% DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR (ASTM D1557)
-IF PREDOMINANTLY GRANULAR TEXTURE SOILS AND/OR GROUNDWATER INFLOW IS ENCOUNTERED AT OR BELOW THE BOTTOM ELEVATION OF THE POND, A "SACRIFICIAL" LIFT OF CLAYEY FILL MAY BE REQUIRED TO BE PLACED ALONG THE SIDEWALLS AND BASE PRIOR TO COMMENCING WITH ACTUAL LINER PLACEMENT/CONSTRUCTION TO AID IN ATTAINING A SATISFACTORILY COMPACTED LINER SECTION. THE PLACEMENT OF A "SACRIFICIAL" LAYER IS PARTICULARLY BENEFICIAL IN CREATING A STABLE SUBBASE IN THE EVENT SLIGHT GROUNDWATER SEEPAGE OCCURS.
- GEOTECHNICAL TESTING SHALL BE PERFORMED ON POTENTIAL CLAY LINER MATERIAL TO CONFIRM THAT SPECIFICATIONS ARE MET.



*INITIAL CONSTRUCTION REQUIRES:
5" ORIFICE END CAP ON THE 30" OUTLET PIPE AT I.E. 1071.50



2 FT CLAY LINER REQUIRED. IF IN SITU CLAY SOILS ARE USED, CONTRACTOR SHALL VERIFY THAT CLAY SOILS MEET WDNR TECHNICAL STANDARD 1001, POND LINER SPECIFICATIONS TYPE "B". IF SOILS OTHER THAN CLAY ARE ENCOUNTERED WITHIN DETENTION BASIN, CONTRACTOR SHALL OVEREXCAVATE A MINIMUM OF 2 FT AND REPLACE WITH COMPACTED CLAY LINER IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1001 TYPE "B" CLAY LINER.

WET POND 4B CROSS SECTION
NO SCALE

ADD No. 2: wet detention basin functioning as sediment basin for Westwind Phase 2 (contracts 9386/9387)

ROADWAY & UTILITY IMPROVEMENTS
PER CITY OF MADISON DESIGN PLANS

EMERALD ELM ROAD

STORM
SEWER
INFLOW PIPE

EMERALD ELM ROAD

28

FG 1080.2

BASIN 4A
30" FES (S-70)
I.E.=1071.00

OUTLET PIPE
(P-70)
106' - 30" RCP
@ S=0.5%

30" FES (S-71)
I.E.=1071.50

WET POND 4B
TOP OF BERM - 1078.00
SPILLWAY - 1077.27
N.W.L. - 1071.50
BOTTOM - 1066.50
500-YR - 1077.93
200-YR - 1077.69
100-YR - 1077.29
10-YR - 1074.46
5-YR - 1073.90
2-YR - 1073.29
1-YR - 1072.98

0 10 20 40
SCALE: 1" = 20' (22"x34")
SCALE: 1" = 40' (11"x17")



4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jpuudelko@trioeng.com

PROJECT:
WESTWIND - PHASE 1
SINGLE FAMILY DEVELOPMENT
CITY OF MADISON, WI
BY: McKenzie Construction, LLC

REVISION HISTORY	
DATE	DESCRIPTION
08/12/22	INITIAL SUBMITTAL
07/06/22	POND REVISIONS
06/28/22	PER CITY PLANS
10/25/22	PER CITY PLANS
11/23/22	PER CITY PLANS

DATE:
NOVEMBER 23, 2022

JOB NUMBER:
12041-02

DESCRIPTION:
WET POND 4B
CROSS SECTION
& DETAILS

SHEET

C2.1

HC:\300\311\12041-02\CONSTRUCTION PLANS\WEST WIND_CIVIL PLAN SET_22X34.DWG

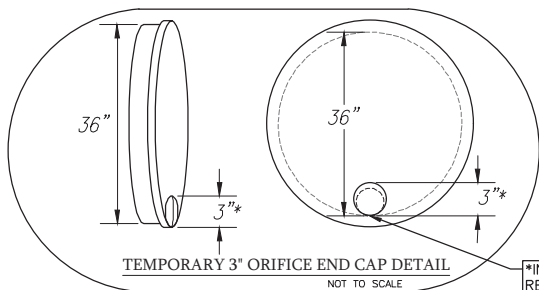


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*INITIAL CONSTRUCTION REQUIRES:
3" ORIFICE END CAP ON THE 36" OUTLET PIPE AT I.E. 1071.50

2 FT CLAY LINER REQUIRED. IF IN SITU CLAY SOILS ARE USED, CONTRACTOR SHALL VERIFY THAT CLAY SOILS MEET WDNR TECHNICAL STANDARD 1001, POND LINER SPECIFICATIONS TYPE "B". IF SOILS OTHER THAN CLAY ARE ENCOUNTERED WITHIN DETENTION BASIN, CONTRACTOR SHALL OVEREXCAVATE A MINIMUM OF 2 FT AND REPLACE WITH COMPACTED CLAY LINER IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1001 TYPE "B" CLAY LINER.

CLAY ANTI-SEEP DAM ON OUTLET PIPE AT 12" MIN. IN ALL DIRECTIONS AROUND PIPE

108' - 36" RCP
S=0.5%

10' WIDE SAFETY SHELF AT 10:1 SLOPE

2YR 1073.41

NWL 1071.50

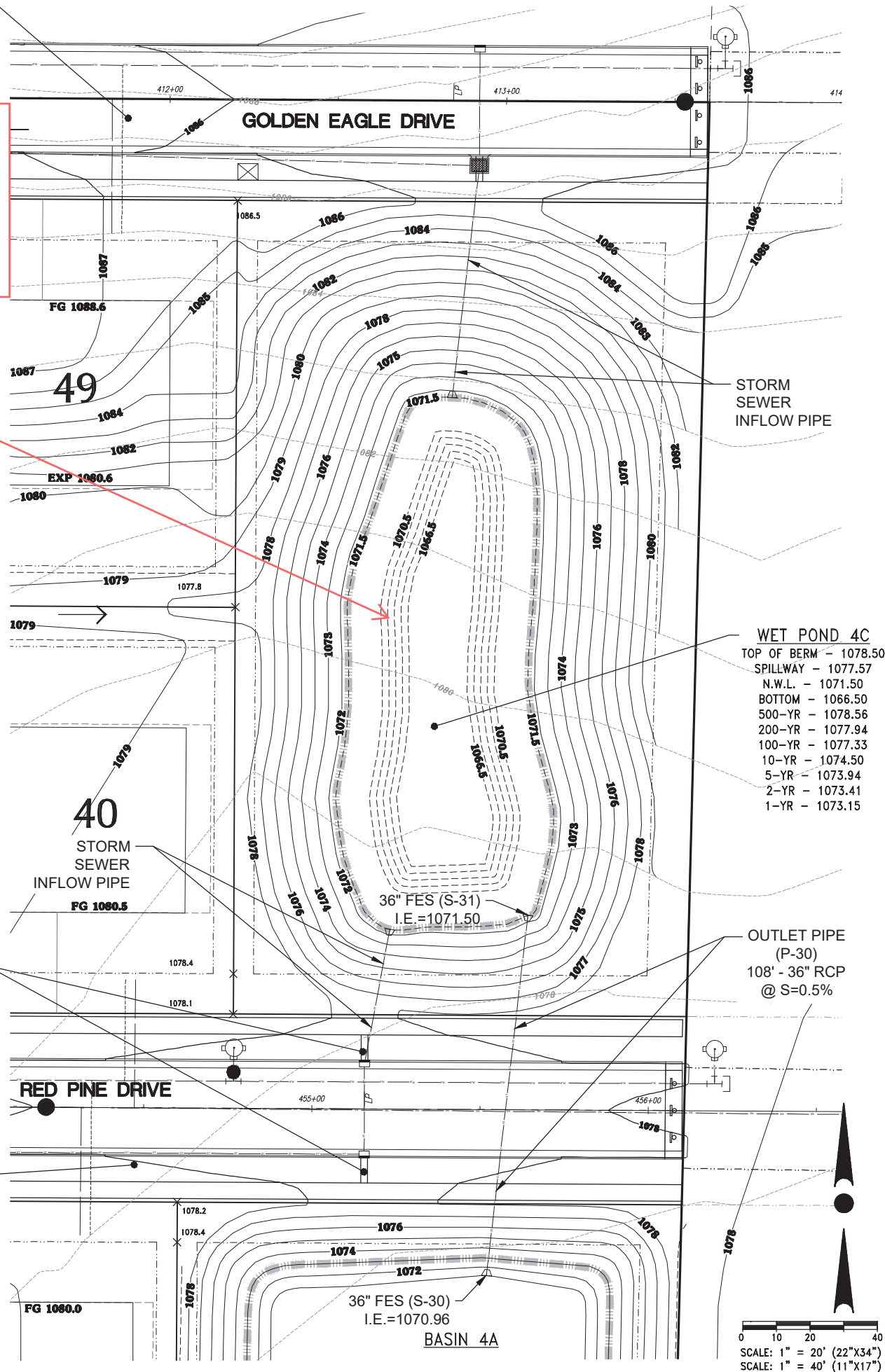
BOTTOM ELEV. 1066.5

WET POND 4B CROSS SECTION
NO SCALE

ADD No. 2: wet basin functioning as sediment basin for Westwind Phase 2 (contracts 9386/9387)

ROADWAY & UTILITY IMPROVEMENTS
PER CITY OF MADISON DESIGN PLANS

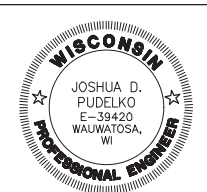
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WET POND 4C
TOP OF BERM - 1078.50
SPILLWAY - 1077.57
N.W.L. - 1071.50
BOTTOM - 1066.50
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OUTLET PIPE
(P-30)
108' - 36" RCP
@ S=0.5%

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SHEET

C2.2