

**DRY WELL BMP #2 SUMMARY CHART**

PEAK CONTROL	PRE-DEVELOPED (DA-4)	POST-DEVELOPED (DA-2)	BMP #2	BMP #2 STAGE	RIGHT-OF-WAY	TOTAL POST TO 18" CMP OUTFALL*	18" CMP OUTFALL MAX CAPACITY**
TOP OF UGDS				598.00			
50YR-QHR	3.62 CFS	21.66 CFS	2.71 CFS	596.12	6.63 CFS	6.79 CFS	6.80 CFS
25YR-QHR	2.89 CFS	19.21 CFS	1.42 CFS	595.77	N/A	N/A	
10YR-QHR	2.16 CFS	16.78 CFS	0.41 CFS	595.40	N/A	N/A	

BMP	REQUIRED	PROVIDED	ELEVATION
CpV	14,908.45 CF	14,908.45 CF	591.72
WQv	8,328.19 CF	12,618.44 CF	592.00

TOTAL BUA TO DRY WELL PER DESIGN: 104,688 SF

**BMP #2 BUA SUMMARY CHART**

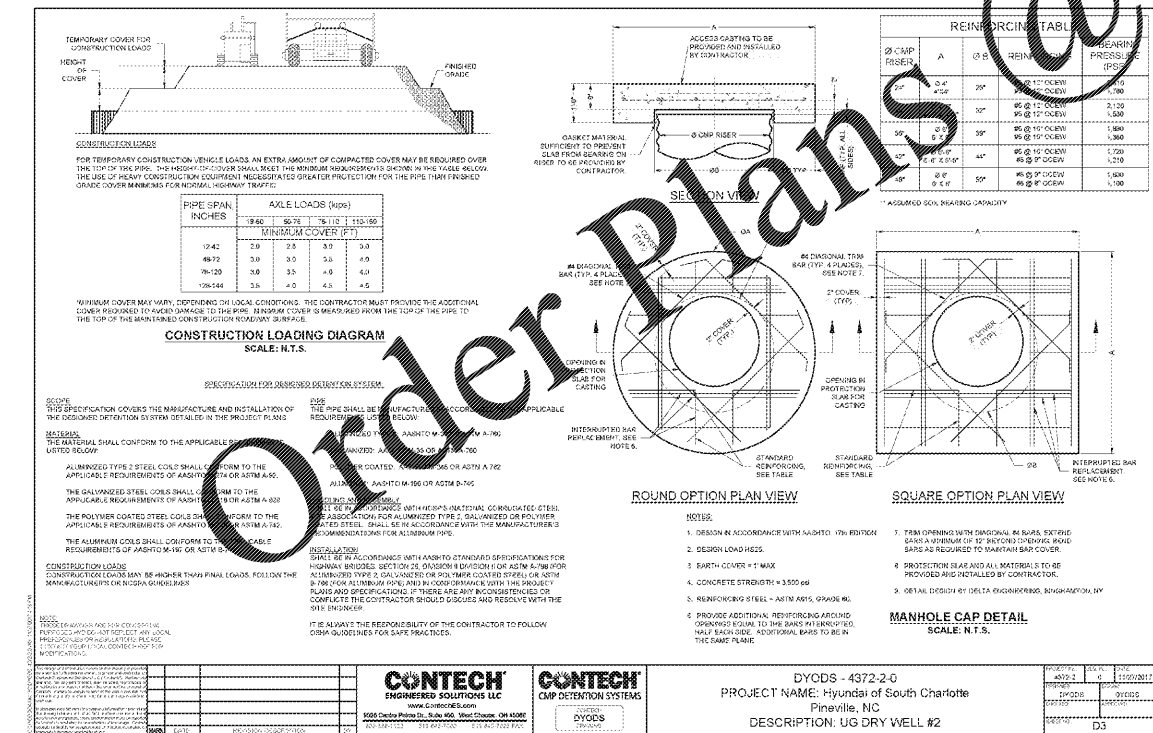
BMP DRAINAGE AREA	114,613 SF
ROADS & PARKING	94,600 SF
CURB & GUTTER	3,354 SF
SIDEWALK/CONCRETE PADS	1,100 SF
BUILDINGS	5,634 SF
FUTURE	N/A
<b>TOTAL MAX BMP BUA</b>	<b>91,344 / 104,688 SF</b>

NOTE: A POST-CONSTRUCTION AND STORM DRAINAGE AS-BUILT SHALL BE PROVIDED IN ACCORDANCE WITH APPENDIX 10-1 OF THE MECKLENBURG COUNTY POST-CONSTRUCTION ADMINISTRATIVE MANUAL PRIOR TO THE ISSUANCE OF BMP AS-BUILT APPROVAL.

- \*RIGHT-OF-WAY RUNOFF TO EX. 18" CMP INCLUDED FOR 50-YR STORM ONLY
- \*\*OUTFALL MAX CAPACITY FOR EXISTING 18-INCH CMP CALCULATION ASSUMES FULL FLOW IN PIPE AT 1.2% SLOPE (PER SURVEY) AND MANNING'S N = 0.022

- BMP CONSTRUCTION SEQUENCE NOTES:**
- CALL THE WATER QUALITY INSPECTOR TO SET UP A BMP PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK ON BMP'S. THIS MEETING SHOULD TAKE PLACE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY BMP AND SHALL INCLUDE THE DESIGN ENGINEER TO ENSURE ENGINEER INSPECTIONS ARE PERFORMED AT THE BMP INSTALLATION PHASES. ESTABLISHED MEASURES ARE IN PLACE TO PREVENT SEDIMENTATION INTO THE BMP, THE STORM DRAINS, INLETS AND PAVEMENT HAVE BEEN PROPERLY CLEANED PRIOR TO COMMENCEMENT OF BMP CONSTRUCTION.
  - ADDITIONAL MEASURES TO ENSURE PROPER CONSTRUCTION AND OPERATION OF THE BMP MAY BE REQUIRED BY THE WATER QUALITY INSPECTOR.
  - A DOUBLE-RINGED INFL-TROMETER TEST (ASTM D 3385), OF THE BOTTOM OF THE BMP, MUST BE SUBMITTED TO THE WATER QUALITY INSPECTOR PRIOR TO INSTALLATION OF THE UNDERDRAIN SYSTEM.
  - THE RESULTS OF THE DOUBLE-RINGED INFL-TROMETER TEST MUST SHOW INFILTRATION CAPABILITIES, CONFIRMED BY THE DESIGN ENGINEER, AND SUBMITTED FOR BMP AS-BUILT APPROVAL.

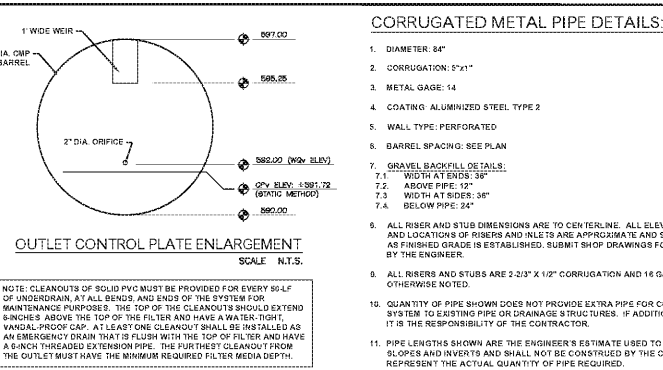
**Underground Detention System - BMP #2 Details**  
N.T.S.



DYODS - 4372-2-0  
PROJECT NAME: Hyundai of South Charlotte  
Pineville, NC  
DESCRIPTION: UG DRY WELL #2

DATE	BY	NO.
02/02/2021	01	17000070.02
03/04/2020	01	17000070.02

**Underground Detention System - BMP #2 Details**  
N.T.S.



**ONE YEAR CONTINUED MAINTENANCE AGREEMENT**

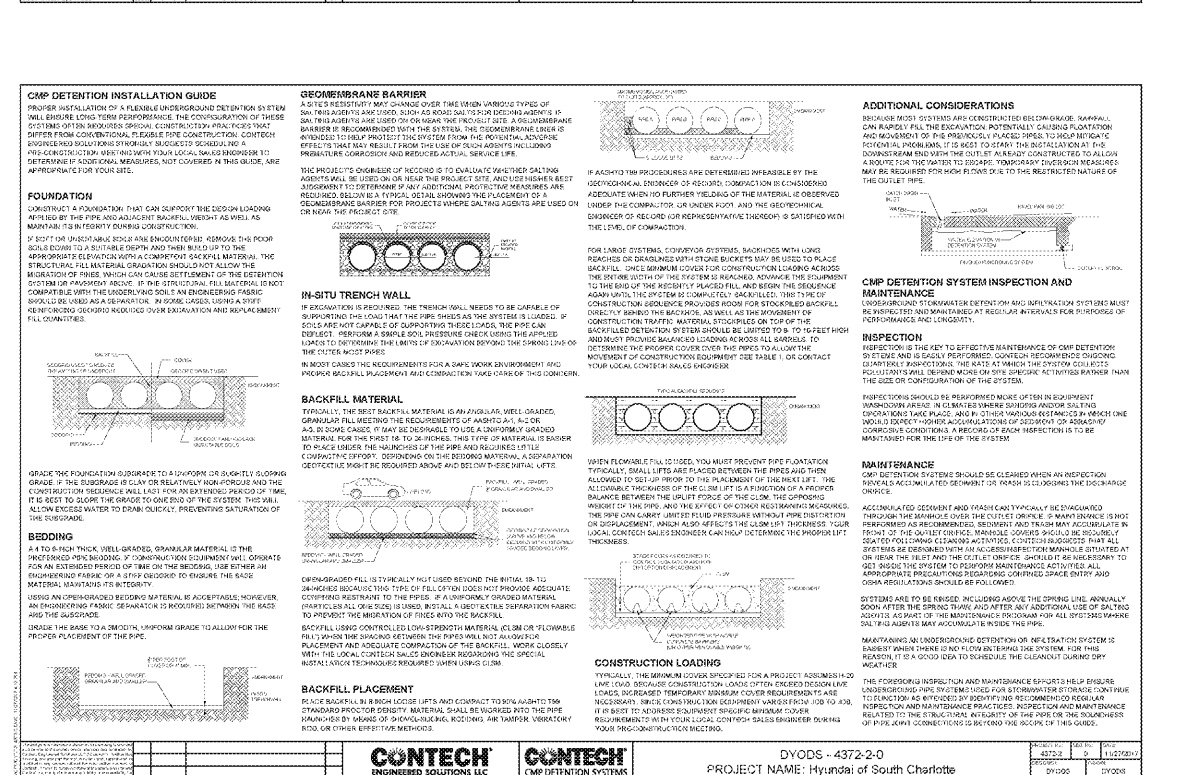
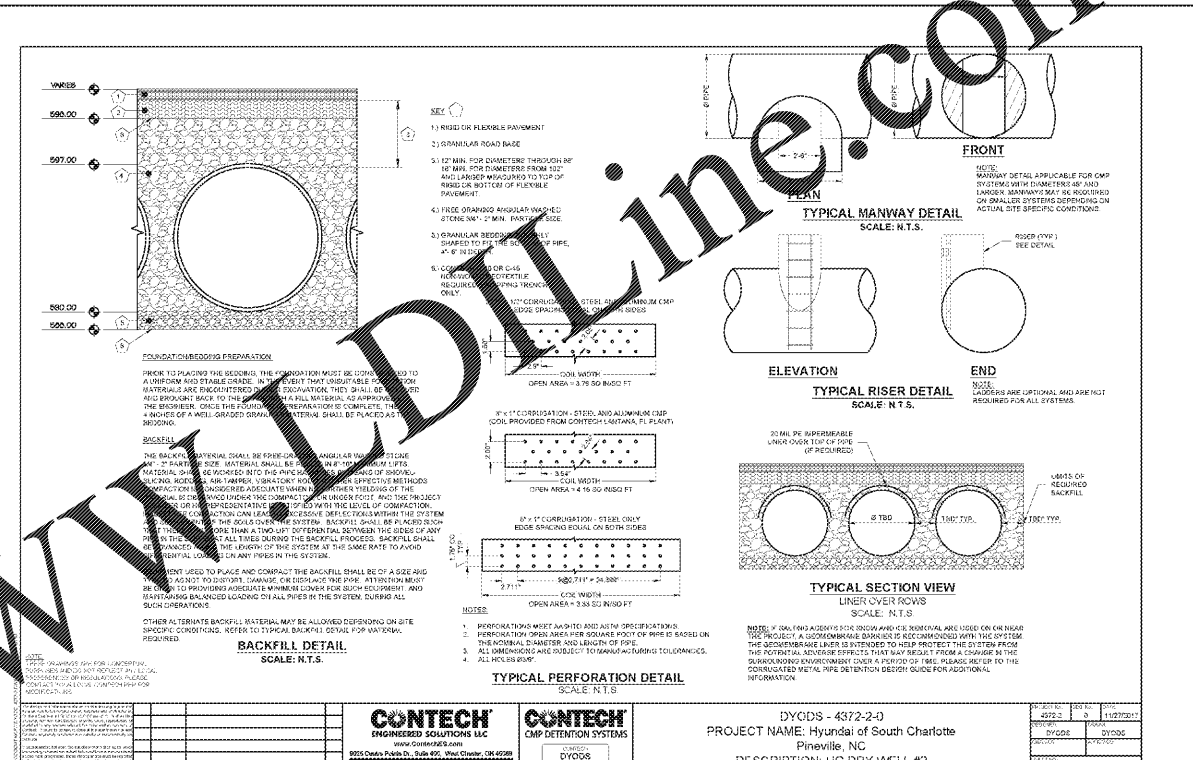
THE INFORMATION BELOW SHALL BE INCLUDED IN THE CONTRACT BY THE CONTRACTOR AS REQUIRED IN THE CONTINUED ONE YEAR MAINTENANCE AGREEMENT WITH THE OWNER.

**MAINTENANCE INSPECTION REPORTS**

AS INDICATED IN THE POST-CONSTRUCTION STORM WATER ORDINANCE, ANNUAL MAINTENANCE INSPECTION REPORTS SHALL BE SUBMITTED TO THE STORM WATER ADMINISTRATOR. THE FIRST REPORT SHALL BE SUBMITTED ONE YEAR FOLLOWING THE FINAL APPROVAL DATE OF THE BMP PER THIS CONTRACT. SUBSEQUENT REPORTS SHALL BE THE RESPONSIBILITY OF THE OWNER EACH YEAR THEREAFTER ON OR BEFORE THE APPROVAL ANNIVERSARY DATE. ALL MAINTENANCE ACTIVITIES AND INSPECTION REPORTS SHALL BE DOCUMENTED USING THE FORMS CONTAINED IN THE ADMINISTRATIVE MANUAL. ANNUAL MAINTENANCE INSPECTION REPORTS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT. THESE INSPECTIONS SHALL BE DISCONTINUED ONLY IF THE BMP HAS BEEN ACCEPTED FOR MAINTENANCE BY THE APPLICABLE JURISDICTION.

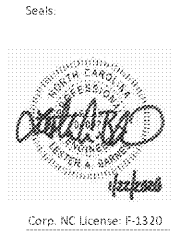
NOTE: THE MAINTENANCE AGREEMENT SHALL BEGIN UPON FULL ACCEPTANCE OF THE BMP, NOT NECESSARILY AT SUBSTANTIAL COMPLETION OF THE PROJECT. THE FIRST REPORT BY THE CONTRACTOR SHALL BE PROVIDED AT THE 11 MONTH MARK IN THE 12 MONTH AGREEMENT.

NOTE: THESE MAINTENANCE IS INDICATED IN THE TABLE AS "YEARLY". THE TASK SHALL BE PERFORMED AT THE 11 MONTH MARK IN THE 12 MONTH CONTRACT.



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Hyundai of South Charlotte  
10518 Cadillac Street  
Pineville, North Carolina

Project No: 17000070.02  
Date: 03.04.2020

Sheet Title:

BMP #2 Details

Sheet No:

C505