

PROJECT INFORMATION	
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ADS SALES REP:	BROOKS MADDEN 972-632-7324
PROJECT NO.:	10479



## LOWRANCE / YOUNG MEDICAL OFFICE BUILDINGS

### ROCKWALL, TEXAS

#### ADS HP RETENTION/DETENTION PIPE SYSTEM SPECIFICATION

THIS SPECIFICATION DESCRIBES ADS HP RETENTION/DETENTION PIPE SYSTEMS FOR USE IN NON-PRESSURE, GRAVITY-FLOW STORM WATER COLLECTION SYSTEMS UTILIZING ADS HP PIPE PRODUCTS AND A CONTINUOUS OUT FALL STRUCTURE.

#### PIPE REQUIREMENTS

ADS RETENTION/DETENTION SYSTEMS MAY UTILIZE ANY OF THE VARIOUS PIPE PRODUCTS BELOW:

- HP STORM AND SANITITE HP PIPE SHALL MEET ASTM F2776 FOR APPLICABLE DIAMETERS
- HP STORM AND SANITITE HP PIPE SHALL MEET ASTM F2764 FOR APPLICABLE DIAMETERS

ALL PRODUCTS SHALL HAVE A SMOOTH INTERIOR AND EITHER ANNULAR EXTERIOR CORRUGATIONS OR SMOOTH EXTERIOR WITH ANNULAR INTERIOR CORRUGATIONS. PRODUCT SPECIFIC PIPE SPECIFICATIONS ARE AVAILABLE IN THE DRAINAGE HANDBOOK SECTION 1 "SPECIFICATIONS".

#### JOINT PERFORMANCE

HP PIPE PRODUCTS PIPE SHALL BE JOINED USING A BELL AND SPIGOT JOINT. THE JOINT SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D212. SPIGOTS SHALL HAVE GASKETS MEETING THE REQUIREMENTS OF ASTM F477. 12-60 INCH (300-1500 mm) DIAMETERS SHALL HAVE A BELL REINFORCED WITH A POLYMER COMPOSITE BAND. THE BELL TOLERANCE DEVICE SHALL BE INSTALLED BY THE MANUFACTURER.

PIPE AND FITTING CONNECTIONS SHALL UTILIZE A SPUN-ON, WELDED OR INTEGRAL BELL AND SPIGOT. DETENTION SYSTEMS ARE SUBJECT TO GREATER LEAKAGE THAN TYPICAL STORM SEWER APPLICATIONS AND THEREFORE ARE NOT APPROPRIATE FOR APPLICATIONS REQUIRING LONG-TERM FLUID CONTAINMENT OR HYDROSTATIC PRESSURE. FOR ADDITIONAL DETAILS REFER TO TECHNICAL NOTE 7.01 "RAINWATER HARVESTING".

#### FITTINGS

FITTINGS SHALL CONFORM TO ASTM F2736 FOR APPLICABLE DIAMETERS AND MEET JOINT PERFORMANCE INDICATED ABOVE FOR FITTING CONNECTIONS. CUSTOM FITTINGS ARE AVAILABLE AND MAY REQUIRE SPECIAL INSTALLATION CRITERION.

#### INSTALLATION

INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2221 AND ADS RECOMMENDED INSTALLATION GUIDELINES, WITH THE EXCEPTION THAT MINIMUM COVER IN NON-TRAFFIC AREAS FOR 12-60 INCH (300-1500 mm) DIAMETERS SHALL BE 1 FT (0.3 m). MINIMUM COVER IN TRAFFICED AREAS FOR 12-36 INCH (300-900 mm) DIAMETERS SHALL BE 1 FT (0.3 m) AND FOR 42-60 INCH (1050-1500 mm) DIAMETERS, THE MINIMUM COVER SHALL BE 2 FT (0.6 m). BACKFILL SHALL CONSIST OF CLASS II (COMPACTED), OR CLASS III (MINIMUM 85% PRO) MATERIAL. WITH THE EXCEPTION THAT 60 INCH (1500 mm) SYSTEMS SHALL USE CLASS I MATERIAL ONLY. MINIMUM COVER HEIGHTS DO NOT ACCOUNT FOR PIPE BUOYANCY. REFER TO ADS TECHNICAL NOTE 5.05 "PIPE FLOTATION FOR BUOYANCY DESIGN CONSIDERATIONS. MAXIMUM COVER OVER SYSTEM USING STANDARD BACK FILL IS 8 FT (2.4 m); CONTACT A REPRESENTATIVE WHEN MAXIMUM FILL HEIGHT MAY BE EXCEEDED.

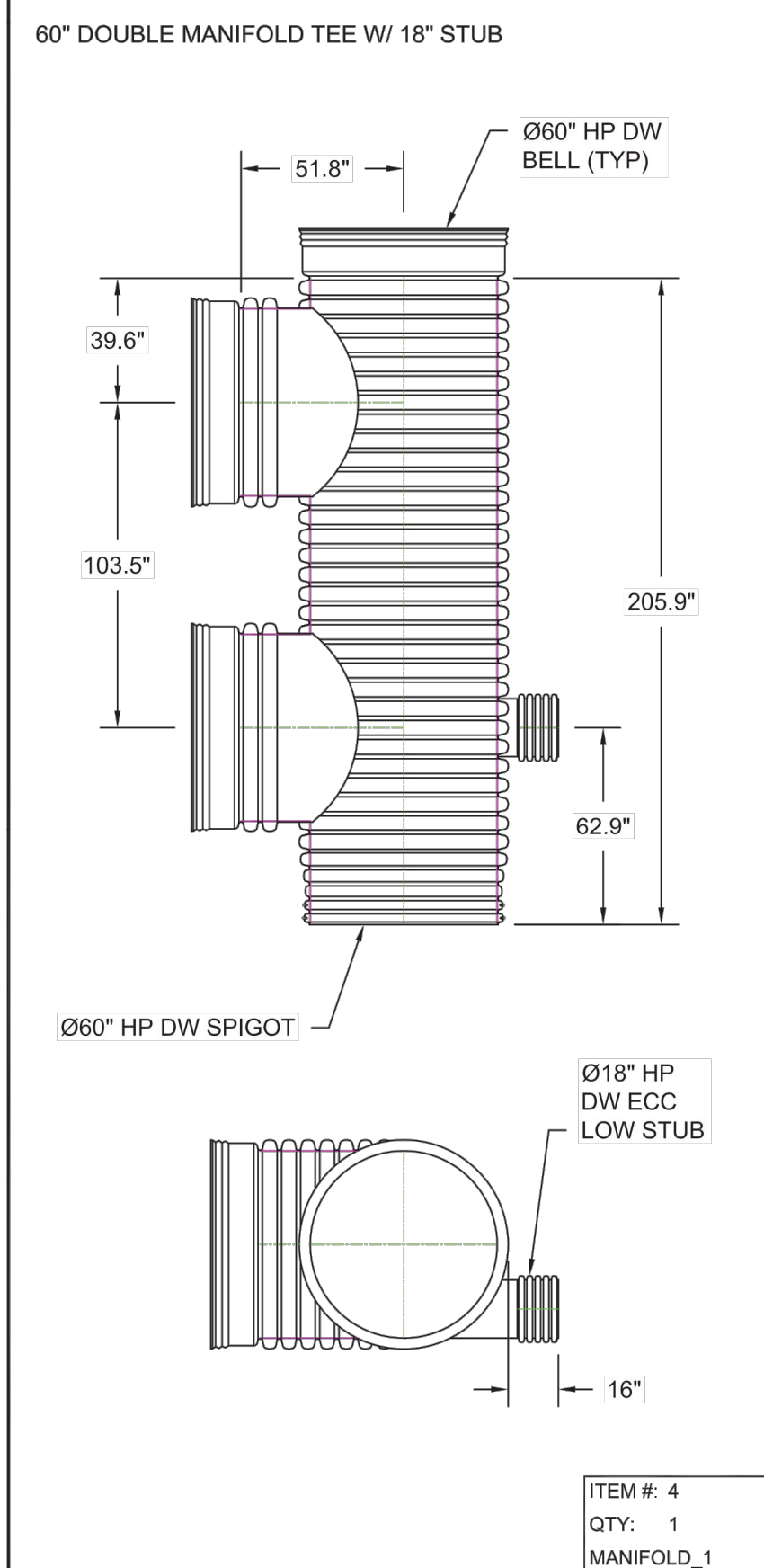
ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

#### NOTES:

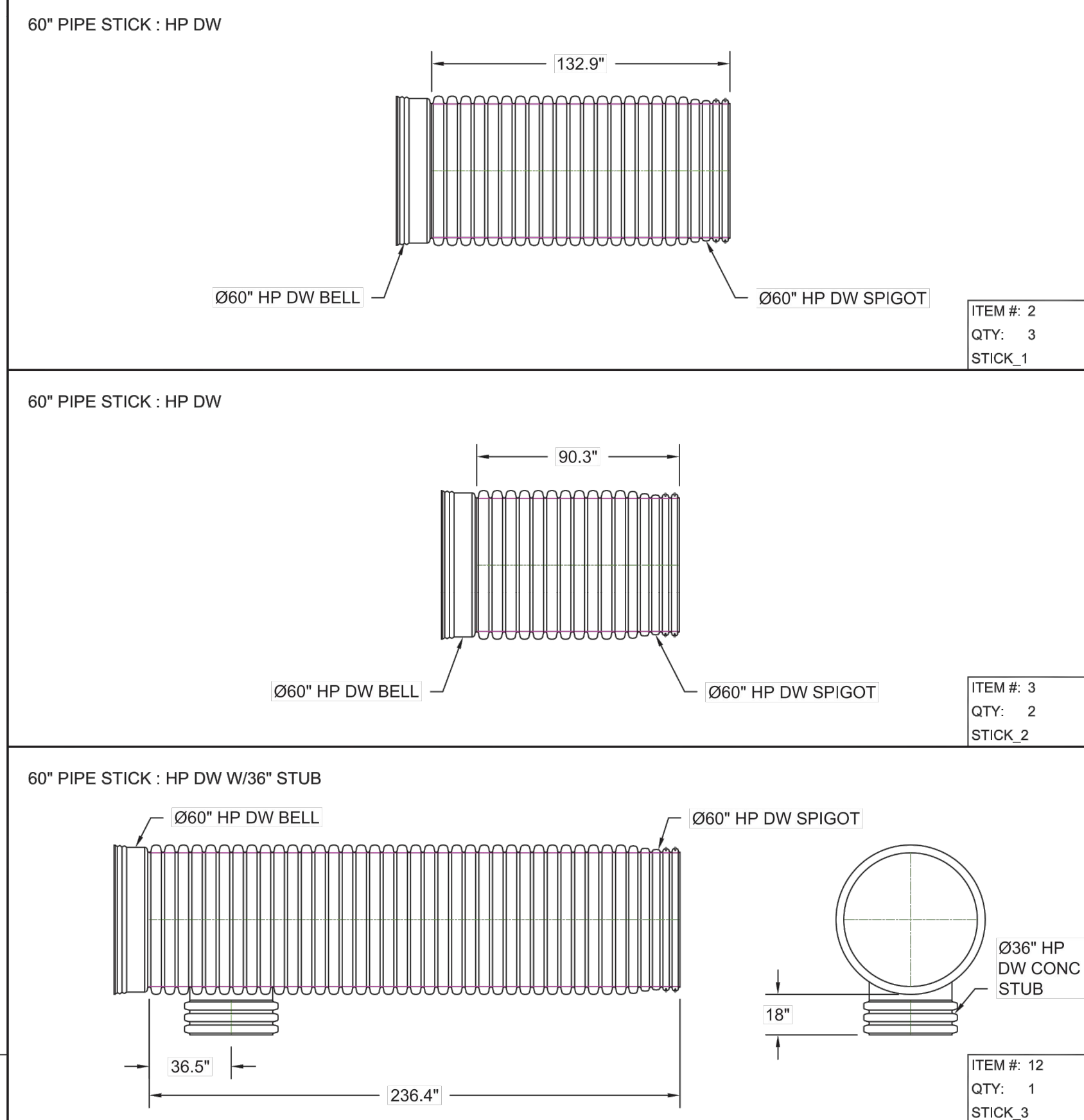
- 1) ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS, INLETS AND OUTLETS, SHALL BE VERIFIED BY THE ENGINEER PRIOR TO RELEASING FOR FABRICATION.
- 2) IN SITUATIONS WHERE A FINE-GRAINED BACKFILL MATERIAL IS USED ADJACENT TO THE PIPE SYSTEM AND ESPECIALLY INVOLVING GROUND WATER CONDITIONS, CONSIDERATION SHOULD BE GIVEN TO THE USE OF GASKETED PIPE JOINTS. AT THE VERY LEAST THE PIPE JOINTS SHOULD BE WRAPPED IN A SUITABLE, NON-WOVEN GEOTEXTILE FABRIC TO PREVENT INFILTRATION OF FINES INTO THE PIPE SYSTEM.
- 3) CONSIDERATION FOR CONSTRUCTION EQUIPMENT LOADS MUST BE TAKEN INTO ACCOUNT.
- 4) ALL PIPE DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.
- 5) ALL RISERS TO BE FIELD EXTENDED OR TRIMMED TO FINAL GRADE.

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED PAGES.

CUSTOMER \_\_\_\_\_ DATE \_\_\_\_\_



ITEM # : 4  
QTY: 1  
MANIFOLD\_1



ITEM # : 12  
QTY: 1  
STICK\_3

REV	DRW	CHK	DESCRIPTION	DATE	BY	CHK
7-21-15		DL	ISSUED BY REVISION			DL
6-11-15		AC	REV. COMMENTS			AC
6-11-15		AC	REV. COMMENTS			AC

PROJECT # : 10479  
CHECKED: KJL  
DATE: 6-11-15  
DRAWN: DL

DESCRIPTION: 60° HP RETENTION/DETENTION PIPE SYSTEM  
ROCKWALL, TX

4640 TREILMAN BLVD  
HILLARIO, OH 43026  
1-800-732-4743

ADS  
ADVANCED DRAINAGE SYSTEMS, INC.

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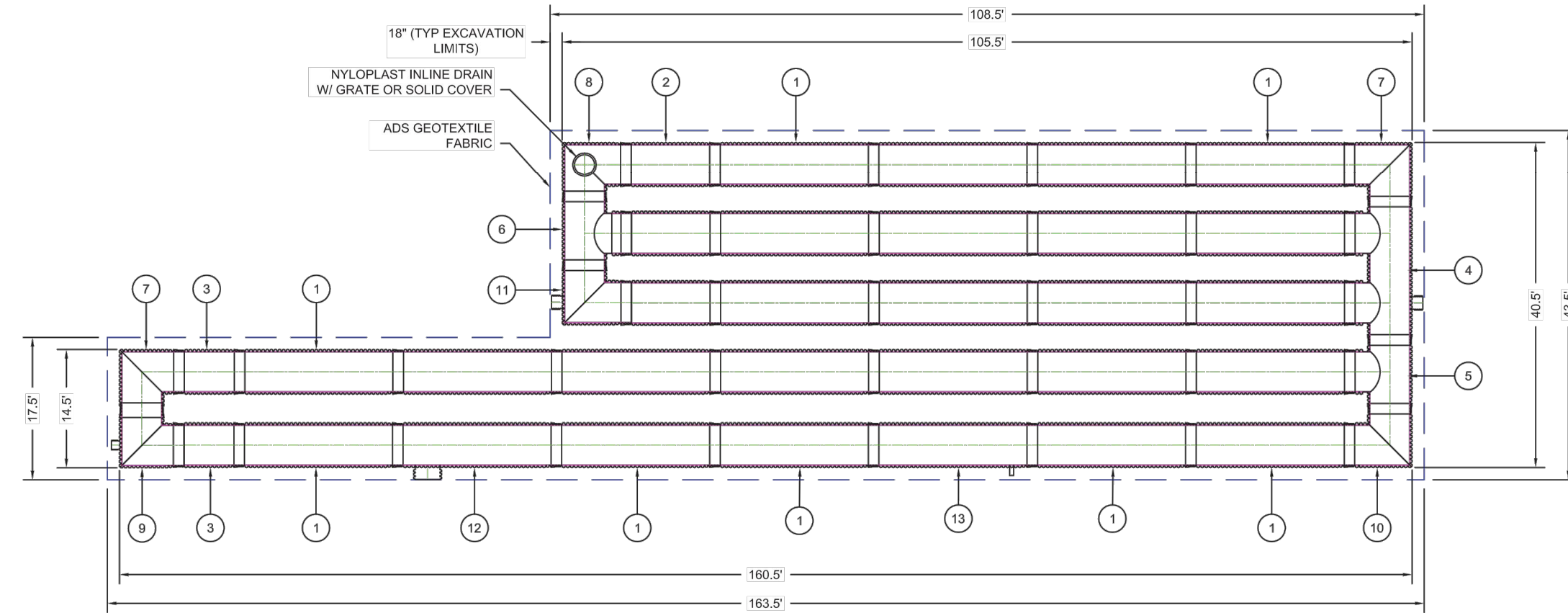
ITEM # : 2  
QTY: 3  
STICK\_1

ITEM # : 3  
QTY: 2  
STICK\_2

ITEM # : 12  
QTY: 1  
STICK\_3

3 OF 7

ITEM	QTY.	PART #	DESCRIPTION	MATERIAL	VENDOR	NOTE
1	24	6065-00208HP	60° HP DW PIPE STICK : SOLID	PP	ADS	WTIB
2	3	STICK_2	60° HP DW PIPE STICK : SOLID	PP	ADS	SEE DETAIL
3	2	STICK_1	60° HP DW PIPE STICK : SOLID	PP	ADS	SEE DETAIL
4	1	MANIFOLD_1	60° HP DW DOUBLE MANIFOLD TEE	PP	ADS	SEE DETAIL
5	1	MANIFOLD_2	60° HP DW SINGLE MANIFOLD TEE	PP	ADS	SEE DETAIL
6	1	MANIFOLD_3	60° HP DW SINGLE MANIFOLD TEE	PP	ADS	SEE DETAIL
7	2	BEND_1	60° X 90° HP DW MANIFOLD BEND	PP	ADS	SEE DETAIL
8	1	BEND_2	60° X 90° HP DW MANIFOLD BEND	PP	ADS	SEE DETAIL
9	1	BEND_3	60° X 90° HP DW MANIFOLD BEND	PP	ADS	SEE DETAIL
10	1	BEND_4	60° X 90° HP DW MANIFOLD BEND	PP	ADS	SEE DETAIL
11	1	BEND_5	60° X 90° HP DW MANIFOLD BEND	PP	ADS	SEE DETAIL
12	1	STICK_3	60° HP DW PIPE STICK : SOLID	PP	ADS	SEE DETAIL
13	1	STICK_4	60° HP DW PIPE STICK : SOLID	PP	ADS	SEE DETAIL
1	1	2730AG	30° NYLOPLAST INLINE DRAIN	VARIES	ADS	SEE DETAIL
1	1	TBD BY ENGINEER	GEOTEXTILE FABRIC	AS SPECIFIED	ADS	AS REQUIRED



REV	DRW	CHK	DESCRIPTION	DATE	BY	CHK
7-21-15		DL	ISSUED BY REVISION			DL
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ITEM # : 2  
QTY: 1  
MANIFOLD\_2

ITEM # : 3  
QTY: 1  
MANIFOLD\_3

2 OF 7

<p>ITEM # : 4 QTY: 1 MANIFOLD_1</p>	<p>ITEM # : 2 QTY: 3 STICK_1</p>	<p>ITEM # : 3 QTY: 2 STICK_2</p>
<p>ITEM # : 12 QTY: 1 STICK_3</p>		

<p>ITEM # : 9 QTY: 1 BEND_3</p>	<p>ITEM # : 7 QTY: 2 BEND_1</p>	<p>ITEM # : 5 QTY: 1 MANIFOLD_2</p>
<p>ITEM # : 10 QTY: 1 BEND_4</p>	<p>ITEM # : 8 QTY: 1 BEND_2</p>	<p>ITEM # : 6 QTY: 1 MANIFOLD_3</p>

Revision Date Description


Owner:  
**LOWDENT, LLC.**  
17393 Adams Trail • Forney, TX 75126 • (214) 869-7181

**LOWRANCE / YOUNG MEDICAL OFFICE BUILDINGS**  
Rockwall, Texas

HALL AND LEE LAND COMPANY, LLC.  
217 Rush Creek • Heath, TX 75032 • (972) 816-2904

~ Civil Engineer ~  
**F.C. CUNY CORPORATION**  
#2 Horizon Court • Heath, Texas 75032 • (469) 402-7700  
Texas Registered Engineering Firm F-7449

7/28/2016

STATE OF TEXAS  
COMMISSION ON EXAMINERS  
EXAMINER NO. 106317  
LICENSED PROFESSIONAL ENGINEER  
F.C. CUNY

Drawn By: F.C. CUNY  
Checked By: F.C. CUNY

Date: 04/15  
Project No.: -

Sheet Title:  
**Detention Pond Plan**

Scale: NTS  
Sheet No.: 8b of 9