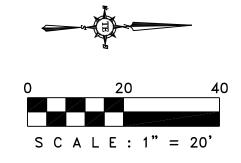
# MEDICAL OFFICES DEVELOPMENT

1.46 ACRES PORTION OF

LOT 2, BLOCK "A" ROCKWALL ASSISTED LIVING ADDITION

CITY OF ROCKWALL, ROCKWALL COUNTY, TX



## ADS RETENTION/DETENTION PIPE SYSTEM SPECIFICATION

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

- N-12 STIB PIPE (PER AASHTO) SHALL MEET AASHTO M 294, TYPE S OR ASTM F2306
- N-12 STIB PIPE (PER ASTM F2648) SHALL MEET ASTM F2648
- N-12 MEGA GREEN STIB SHALL MEET ASTM F2648

ALL PRODUCTS SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. ALL STIB PIPE PRODUCTS ARE AVAILABLE AS PERFORATED OR NON-PERFORATED. WTIB PIPE PRODUCTS ARE ONLY AVAILABLE AS NON-PERFORATED. PRODUCT-SPECIFIC PIPE SPECIFICATIONS ARE AVAILABLE IN THE DRAINAGE HANDBOOK SECTION 1 "SPECIFICATIONS".

### JOINT PERFORMANCE PLAIN END / SOIL-TIGHT (STIB):

STIB PIPE SHALL BE JOINED USING A BELL AND SPIGOT JOINT. THE BELL AND SPIGOT JOINT SHALL MEET THE SOIL-TIGHT REQUIREMENTS OF ASTM F2306 AND GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.

PLAIN END PIPE AND FITTINGS CONNECTIONS SHALL BE JOINED WITH COUPLING BANDS COVERING AT LEAST TWO FULL CORRUGATIONS ON EACH END OF THE PIPE. GASKETED SOIL-TIGHT COUPLING BAND CONNECTIONS SHALL INCORPORATE A CLOSED-CELL SYNTHETIC EXPANDED RUBBER GASKET MEETING THE REQUIREMENTS OF ASTM D1056 GRADE 2A2. GASKETS, WHEN APPLICABLE, SHALL BE INSTALLED BY THE PIPE MANUFACTURER.

#### FITTINGS

FITTINGS SHALL CONFORM TO ASTM F2306 AND MEET JOINT PERFORMANCE INDICATED ABOVE FOR FITTINGS CONNECTIONS. CUSTOM FITTINGS ARE AVAILABLE AND MAY REQUIRE SPECIAL INSTALLATION CRITERION.

### INSTALLATION

INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 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 TRAFFICKED 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 I (COMPACTED) OR CLASS II (MINIMUM 90% SPD) 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 BACKFILL IS 8 FT (2.4 m); CONTACT A REPRESENTATIVE WHEN MAXIMUM FILL HEIGHT MAY BE EXCEEDED. ADDITIONAL INSTALLATION REQUIREMENTS ARE PROVIDED IN THE DRAINAGE HANDBOOK SECTION 6 "RETENTION/DETENTION".

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.

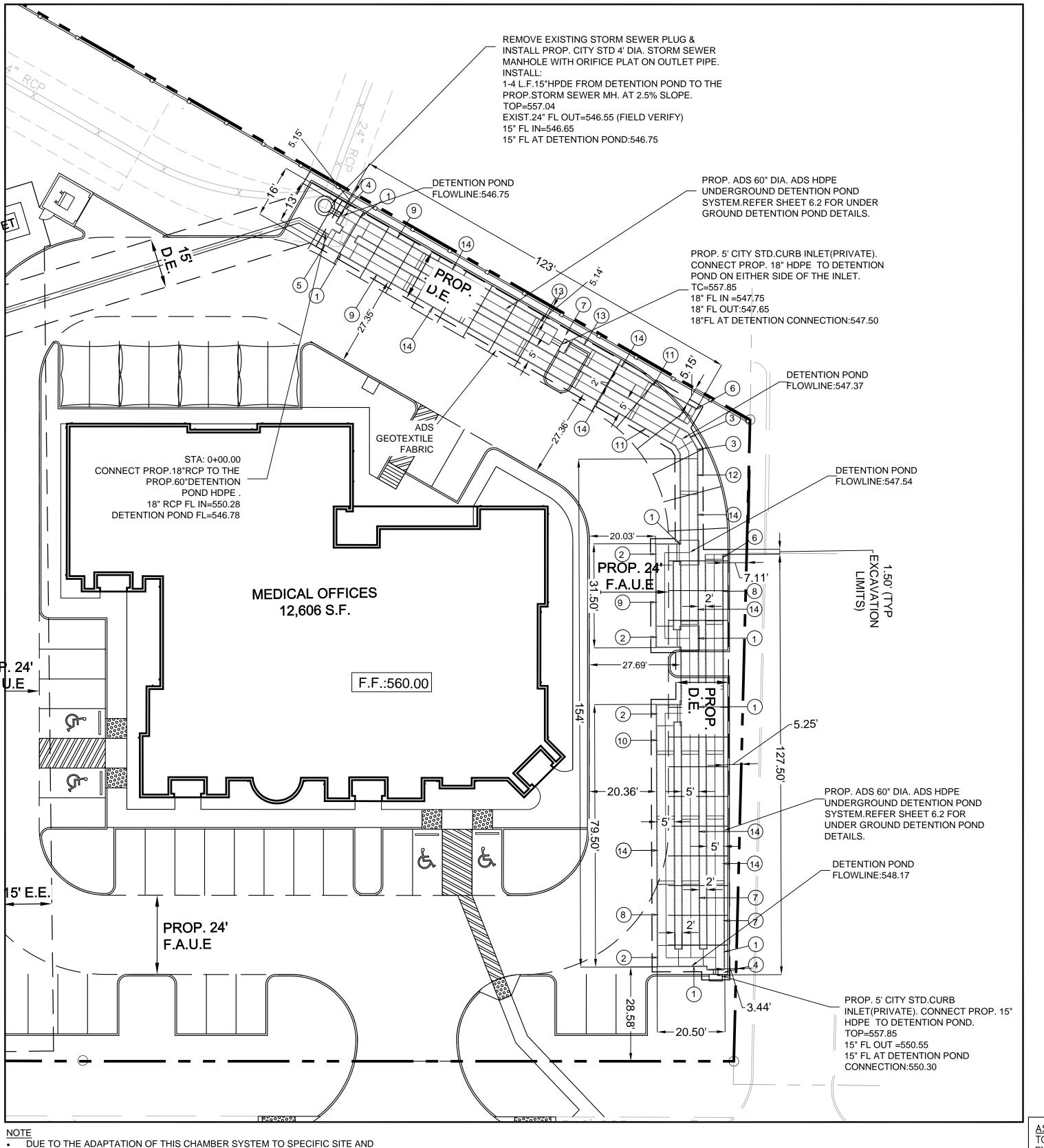
### NOTES:

- 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.

# **BILL OF MATERIALS**

\*THE COMPONENTS AND QUANTITIES LISTED HEREIN ARE NOT INTENDED TO BE A COMPREHENSIVE MATERIAL LIST. EXTRA COMPONENTS, NOT LISTED HEREIN, MAY BE NECESSARY TO COMPLETE THE CONSTRUCTION OF THE SYSTEM.

ITEM	QTY.	PART#	DESCRIPTION	MATERIAL	VENDOR	NOTE
1	7	6051AN	60" SINGLE MANIFOLD TEE	HDPE	ADS	SEE DETAIL
2	4	6098AN	60" X 90° MANIFOLD BEND	HDPE	ADS	SEE DETAIL
3	2	6095AN	60" X 30° BEND	HDPE	ADS	SEE DETAIL
4	2	REDUCER-1	60" X 15" REDUCER	HDPE	ADS	SEE DETAIL
5	1	REDUCER-2	60" X 18" REDUCER	HDPE	ADS	SEE DETAIL
6	2	6001AN	60" END CAP	HDPE	ADS	SEE DETAIL
7	3	STICK-1	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
8	3	STICK-2	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
9	1	STICK-3	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
10	1	STICK-4	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
11	2	STICK-5	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
12	1	STICK-6	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
13	1	STICK-7	60" PIPE STICK : SOLID	HDPE	ADS	FIELD CUT
14	19	6085-0020IB	60" PIPE STICK : SOLID	HDPE	ADS	STIB
	28	6065AA	60" SPLIT COUPLER	HDPE	ADS	NOT SHOWN
	1	TBD BY ENGINEER	ADS GEOTEXTILE FABRIC	AS SPECIFIED	ADS	AS NEEDED



"ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF

DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL

PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.

• PROPERTY OWNER TO MAINTAIN DETENTION SYSTEM.

ASBUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE
ENGINEERING LLC., HEREBY STATES THAT THIS PLAN
IS ASBUILT. THE INFORMATION PROVIDED IS BASED
ON SURVEYING AT THE SITE AND INFORMATION
PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL P.E. NO. 97534

HEET # RESISSION #

KARTAVYA S. PATEL 另: 97534 ∴

06/25/2015

MEDICAL OFFICE 3018 RIDGE ROAD ROCKWALL, TEXAS

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