

18" A2000 ASSEMBLY
SCALE: 1"=8'
PIPE VOLUME: 1,005 C.F.
STONE VOLUME: 1,216 C.F.
TOTAL VOLUME: 2,221 C.F.

QTY.	FITTING	DIAMETER	LENGTH REQ'D	MATERIAL	DESCRIPTION
4	A (MANIFOLD TEES)	18"		PVC	MANIFOLD TEE
1	B (MANIFOLD TEE W/ BULKHEAD)	18"		PVC	TEE W/ BULKHEAD
3	C (PIPE W/ CLEANOUT)	18"	22'-0"	F949 (A2000)	18" Riser
5	D1 (TEE ON RISER EXTENSIONS)	18"	5'-0"	PVC	RISER EXTENSION
5	D2 (TEE ON RISER EXTENSIONS)	18"	6'-0"	PVC/F949 (A2000)	TEE ASSEMBLY
5	D3 (TEE ON RISER EXTENSIONS)	18"	5'-0"	F949 (A2000)	RISER EXTENSION
20	X (PIPE)	18"	22'-0"	F949 (A2000)	PERF. EXTENSION
4	CLEANOUTS	6"		PVC	SADDLE TEE
6	BULKHEADS	18"		PVC	PVC PLATE
35	BELL	18"	N/A	F949	CONNECTION
35	SPIGOT	18"	N/A	F949	CONNECTION
35	GASKET	18"	N/A	ISOPRENE	CONNECTION

CONTECH ENGINEERED SOLUTIONS LLC
A-2000 - 647014-010 ASSISTED LIVING FACILITY SAVANNAH, GA
SITE DESIGNATION: RETENTION SYSTEM

NOTES:

- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER PRIOR TO RELEASING FOR FABRICATION.
- SYSTEM MADE FROM 18" A2000.
- MINIMUM COVER HEIGHT FOR PIPE DESCRIBED IN THIS DRAWING SHALL BE 12" UNLESS OTHERWISE NOTED. SEE DETAIL ON PAGE 3.
- ALL PIPE DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES.

SCOPE:
THIS SPECIFICATION INCLUDES MATERIALS, TEST METHODS AND INSTALLATION REQUIREMENTS FOR 4 TO 36 INCH DIAMETER 18" PVC HYDRAULIC (PVC) A-2000 CORRUGATED PIPE WITH A SMOOTH INTERIOR.

DESCRIPTION:
PVC CORRUGATED PIPE WITH A SMOOTH INTERIOR SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION F 949 (LATEST REVISION). THE PIPE AND FITTINGS SHALL BE HOMOGENEOUS THROUGHOUT AND FREE FROM VISIBLE CRACKS, HOLES, FOREIGN INCLUSIONS OR OTHER DEFECTS.

MINIMUM PIPE STIFFNESS WHEN MEASURED IN ACCORDANCE WITH ASTM TEST METHOD D 2412 SHALL BE 40.0. THE PIPE SHALL BE MADE OF PVC COMPOUND HAVING A MINIMUM CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM SPECIFICATION D 1346.

PIPE SHALL BE A 2000 AS MANUFACTURED BY CONTECH CONSTRUCTION PRODUCTS OR APPROVED EQUAL. ALL OTHER MANUFACTURERS MUST BE PRE-QUALIFIED AT LEAST 30 DAYS PRIOR TO BID OPENINGS TO BE CONSIDERED AS APPROVED MATERIAL SUPPLIERS. PIPE QUALIFICATION SUBMITTALS MUST DEMONSTRATE A MINIMUM 5 YEARS EXPERIENCE OF MANUFACTURING PROPOSED PIPE MATERIAL. PIPE PERFORMANCE HISTORY INCLUDING A PRODUCT INSTALLATION LIST WITH AT LEAST THREE (3) SUCCESSFUL WATER TIGHTNESS AND PENETRATION TEST RESULTS, PRODUCT LITERATURE AND INSTALLATION RECOMMENDATIONS. MANUFACTURER SHALL PROVIDE ALL ENGINEERING CALCULATIONS, LAYOUT DRAWINGS, SUBMITTALS, ETC. STAMPED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER UNDER NO CIRCUMSTANCES SHALL THE PROPOSED LAYOUT EXCEED THE DESIGNED "FOOT PRINT". DOCUMENTATION OF FIELD PERFORMANCE SHALL BE PROVIDED SHOWING THE PIPE MATERIAL AND JOINTS HAVE BEEN FIELD TESTED TO MEET ASTM/FIT REQUIREMENTS ON AT LEAST 50 SANITARY SEWER PROJECTS OVER THE LAST 5 YEARS.

FITTINGS:
ALL FITTINGS FOR PVC CORRUGATED SEWER PIPE WITH A SMOOTH INTERIOR SHALL CONFORM TO ASTM F 949 (LATEST REVISION) SECTION 5.2.3 TO INSURE COMPATIBILITY. THE PIPE MANUFACTURER SHALL PROVIDE ALL FITTINGS.

JOINTS:
ALL JOINTS SHALL BE MADE WITH INTERNALLY FORMED BELL AND SPIGOT GASKETED CONNECTIONS. ALL GASKETS SHALL BE ONE PIECE HAVING TWO SEALING SURFACES AND TWO WALLS TO ENSURE WATER TIGHTNESS. MANUFACTURER SHALL PROVIDE DOCUMENTATION SHOWING NO LEAKAGE WHEN GASKETED PIPE JOINTS ARE TESTED IN ACCORDANCE WITH ASTM TEST METHOD D 2821.

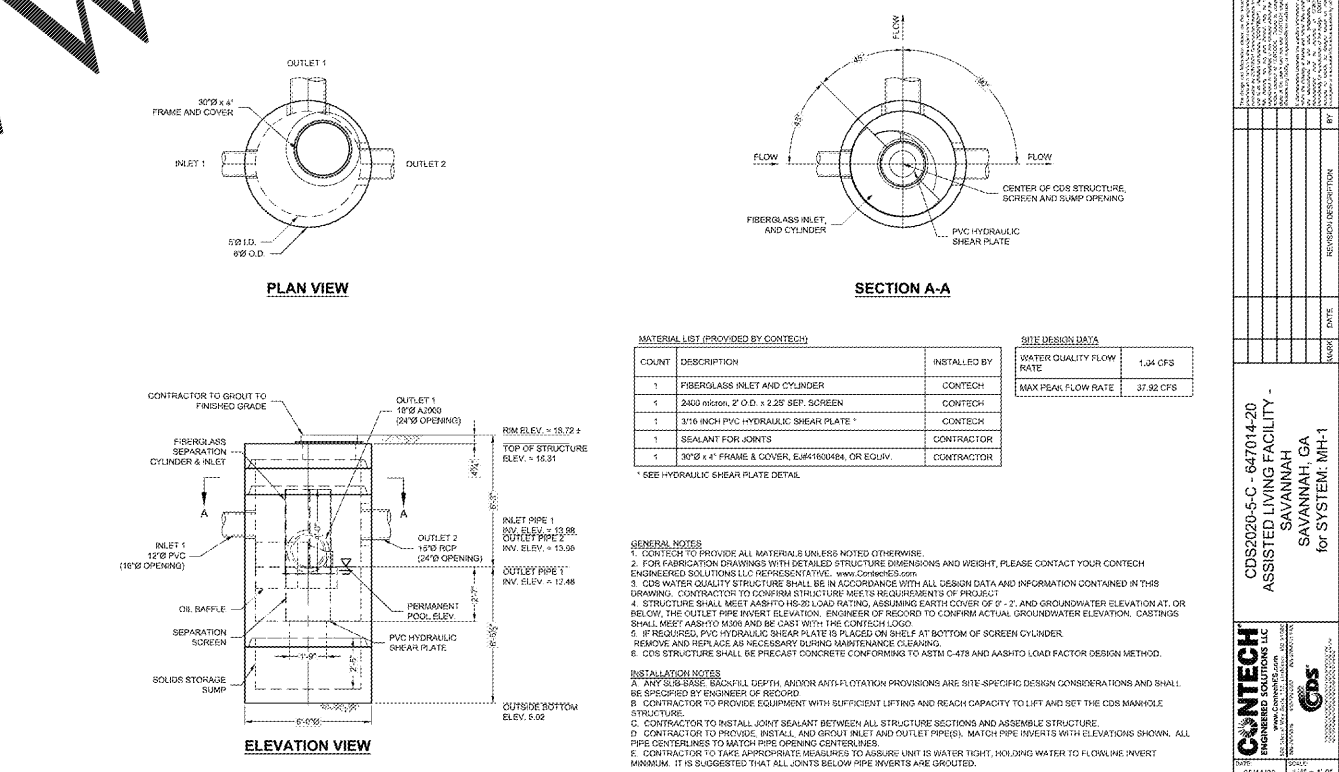
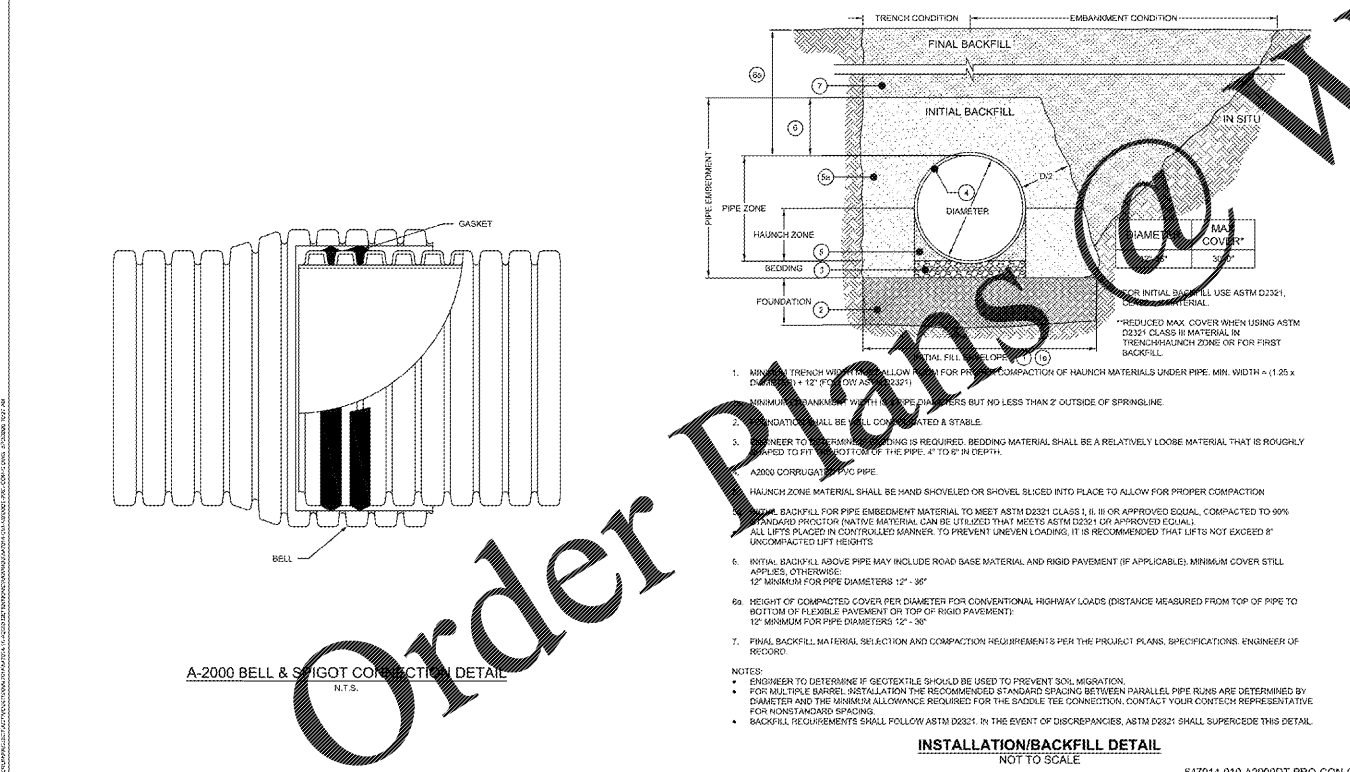
(GASKETS) SHALL MEET THE REQUIREMENTS OF ASTM DESIGNATION F 477.

INSTALLATION SPECIFICATION:
PRE-CONSTRUCTION MEETING:
PRIOR TO INSTALLATION OF THE SEWERAGE SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPERVISOR OF THE DRAINAGE SYSTEM, THE GENERAL CONTRACTOR, SUB CONTRACTORS AND THE ENGINEER.

INSTALLATION OF PIPE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR PROJECT ENGINEER TO ENSURE THAT ALL DECISIONS ABOUT INSTALLATION ARE ADDRESSED PRIOR TO APPROVAL OF SYSTEM. ALL DETAILS FOR INSTALLATION ARE LOCATED IN THIS DRAWING PACKAGE AND QUESTIONS CONCERNING THESE STANDARD DETAILS CAN BE ADDRESSED BY YOUR CONTECH REPRESENTATIVE PRIOR TO APPROVAL.

BACKFILL SHALL BE PLACED TO THE PROPER ELEVATION OVER THE SYSTEM AS DETAILED IN THE PLANS. MINIMUM COVER FOR CONSTRUCTION LOADS NEEDS TO BE DETERMINED BASED ON THE TYPE OF EQUIPMENT TO BE PLACED FOR CONSTRUCTION. PROPER COVER FOR CONSTRUCTION EQUIPMENT IS DETAILED IN THE CONSTRUCTION LOADING DIAGRAM LOCATED ON THIS PAGE.

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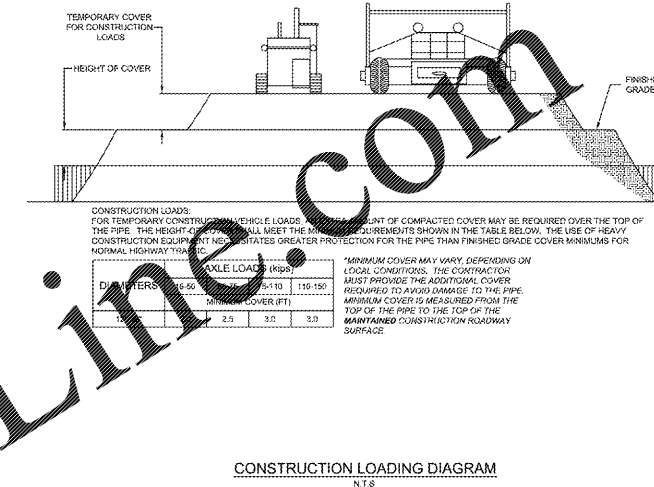


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RENOVATION & ADDITION TO:
ASSISTED LIVING FACILITY - SAVANNAH, GA
for SYSTEM: MH-1

Project Reference Numbers
Architect's Project No. 100001
Drawn By: JLR / FLG

CONTECH ENGINEERED SOLUTIONS LLC

CONTECH MANUFACTURER DETAILS

SHEET NUMBER

C-3.4