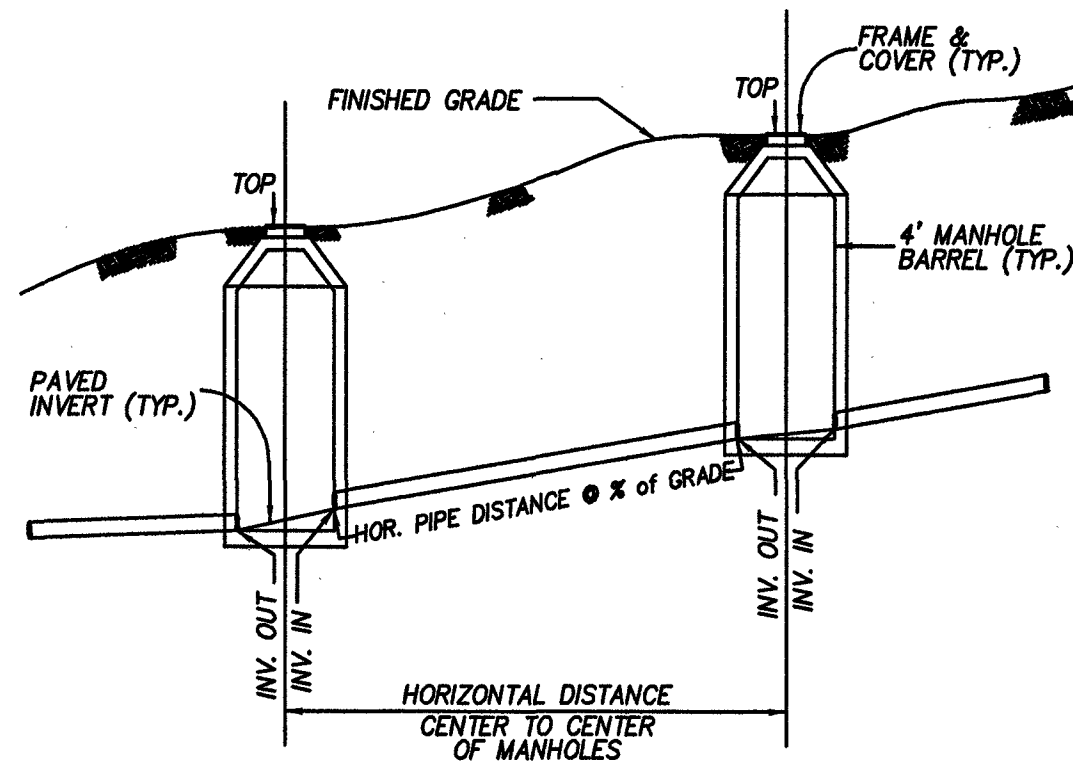


-

TAPPING SLEEVE AND VALVE

W-



SANITARY SEWER HORIZONTAL AND SLOPE DISTANCE DETAIL

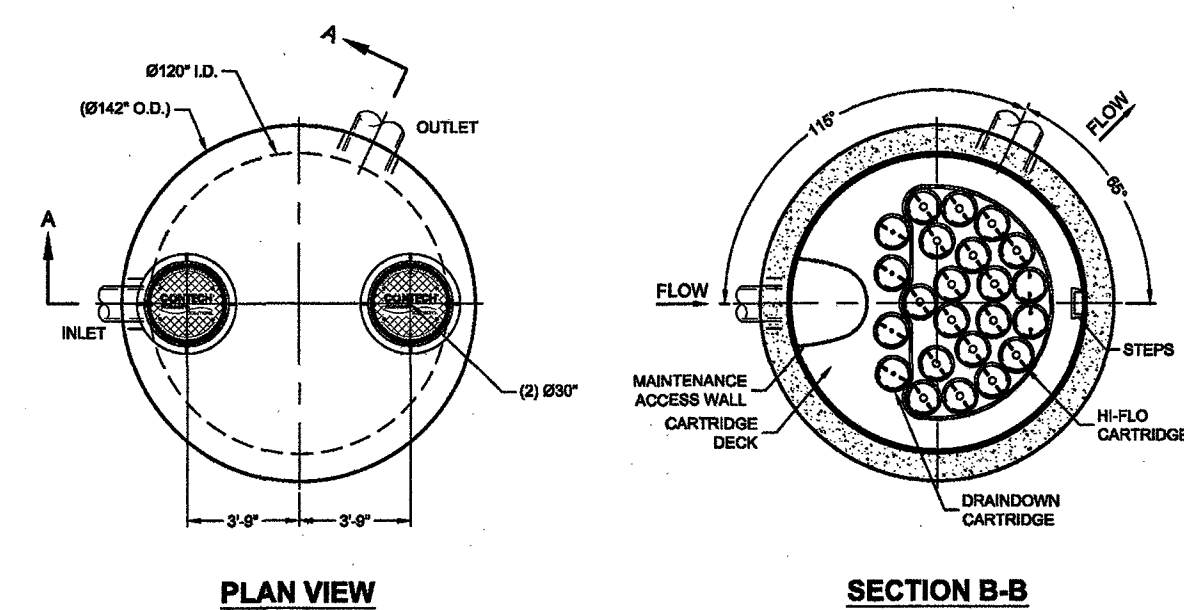
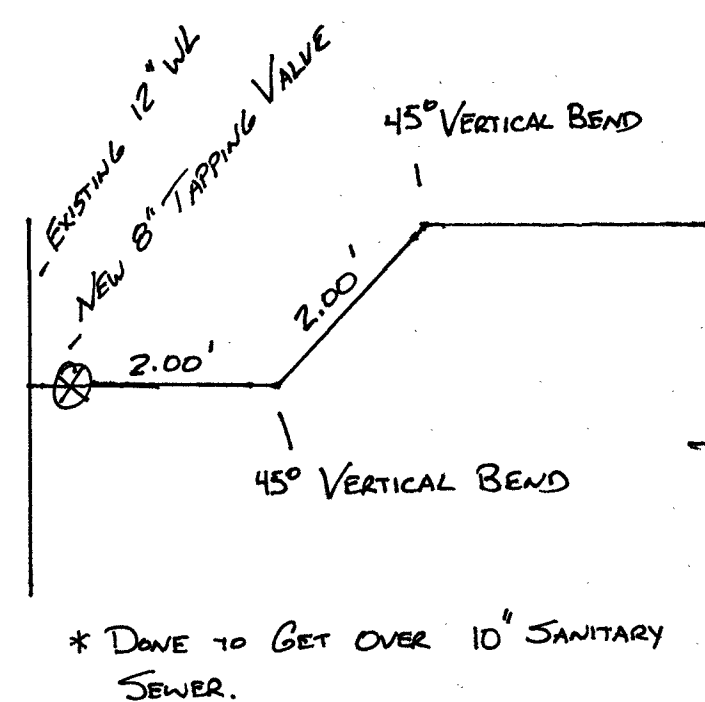
NO SCALE

MATERIAL INFO. WATER

- * PIPE: NORTH AMERICAN C900 DR 14 PVC 8", 6", AND 4"
 * VALVES: AMERICAN FLOW CONTROL (AFC) 8", 6", AND 4"
 * FIRE HYDRANTS: DARLING MODEL 884B-S CAST 2015
- | | | |
|------------|--------|-----------------|
| FH # 10726 | 74 PSI | STATIC PRESSURE |
| FH # 10727 | 75 PSI | STATIC PRESSURE |

MATERIAL INFO. SEWER.

- * PIPE : J.M. EAGLE 8" SDR 35 PVC
J.M. EAGLE 6" SDR 26 PVC
- * MANHOLES : CP & P PRECAST CONCRETE 48" DIAMETER
- * FRAMES & COVERS : U.S. FOUNDARY STANDARD WATERTIGHT



PLAN VIEW

SECTION B-B

MATERIAL LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
10	54" H-I-FLO CARTRIDGE (70mm ORIFICE)	CONTECH
4	54" DRANDOWN CARTRIDGE (35mm ORIFICE)	CONTECH
2	CARTRIDGE BLANK (NO ORIFICE)	CONTECH
1	JELLYFISH 10 CARTRIDGE DECK	CONTECH
1	54" JELLYFISH 10 SKIRT	CONTECH
1	JOINT SEALANT	CONTRACTOR
2	PIPE BOOT	CONTECH
2	832" x 4" EJM1900484 FRAME & COVER	CONTRACTOR
2 PLACES	GRADE RINGRISER	CONTRACTOR
4	STEPS	CONTECH

SITE DESIGN DATA

WATER QUALITY FLOW RATE	3.47 CFS
PEAK FLOW RATE	12.10 CFS
RETURN PERIOD OF PEAK FLOW	10 YRS

GENERAL NOTES

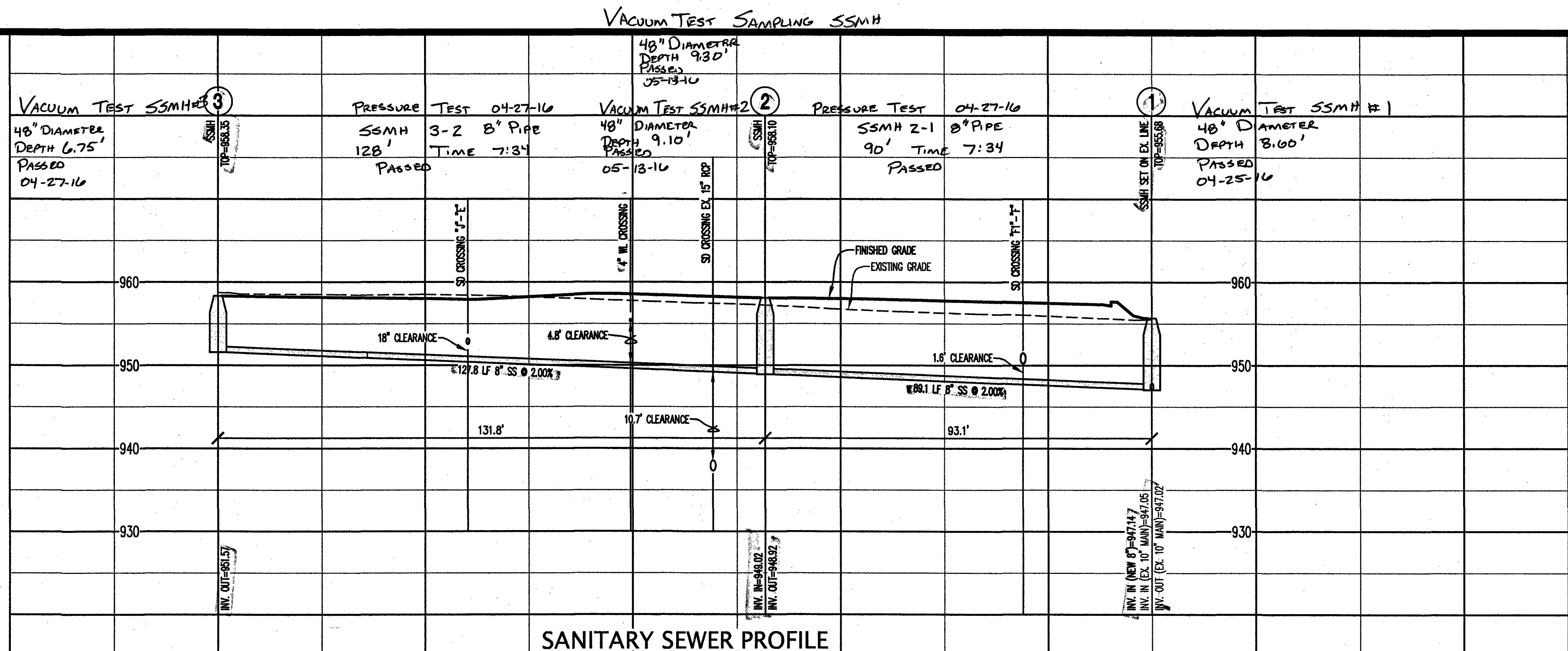
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. WWW.CONTECHES.COM
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET ASHTO HB-20, ASSUME 1% COVER OF 1" - 1.0, AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. IN THE EVENT OF RECORD TO CONFORM WITH AN EXISTING ACTUAL GROUNDWATER ELEVATION, CASTINGS SHALL MEET ASHTO M300 LOAD RATINGS AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND ASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

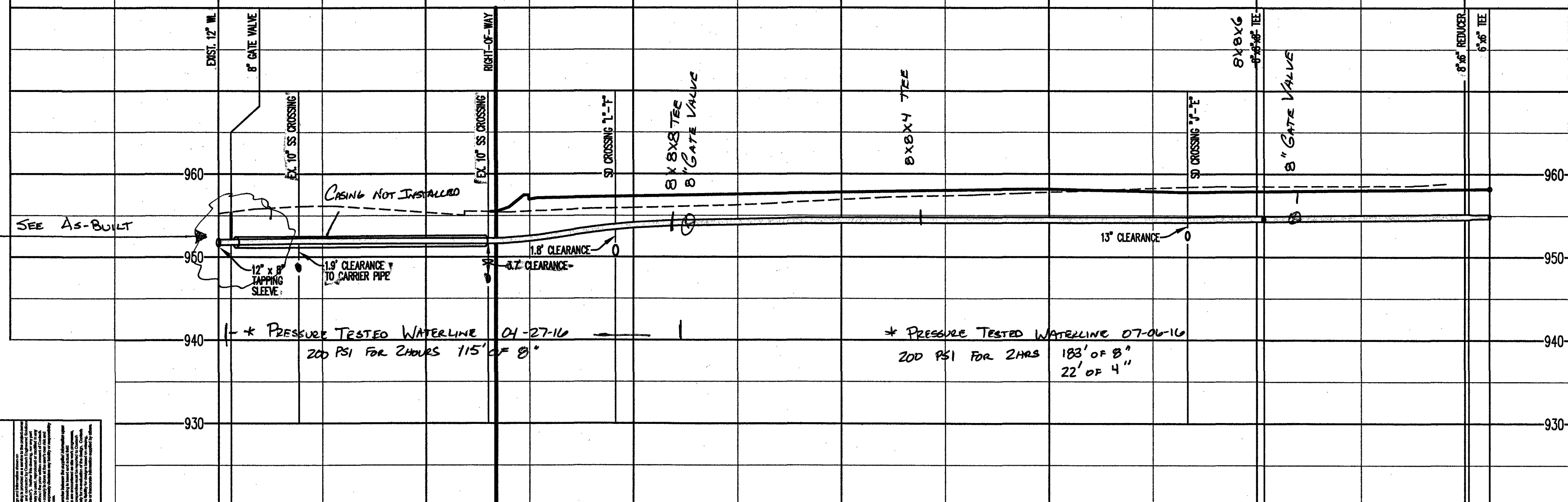
- A. ANT SURFACE DEPTH, LENGTH, AND/OR ANTI-FULLATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPABILITY TO LIFT AND SET THE STRUCTURE (LIFTING CAPABILITIES PROVIDED)
- C. CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEECIBLE MOBT)
- D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
- E. CONTRACTOR TO MAINTAIN ACCESS TO ALL EXISTING UTILITIES. CONTRACTOR SHALL OCCUPY ONLY AFTER SITE HAS BEEN STABILIZED AND THE SILL YIELD IS CLEAN AND FREE OF DEBRIS. CONTACT CONTRACT TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 340-3314.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 52,500 LBS

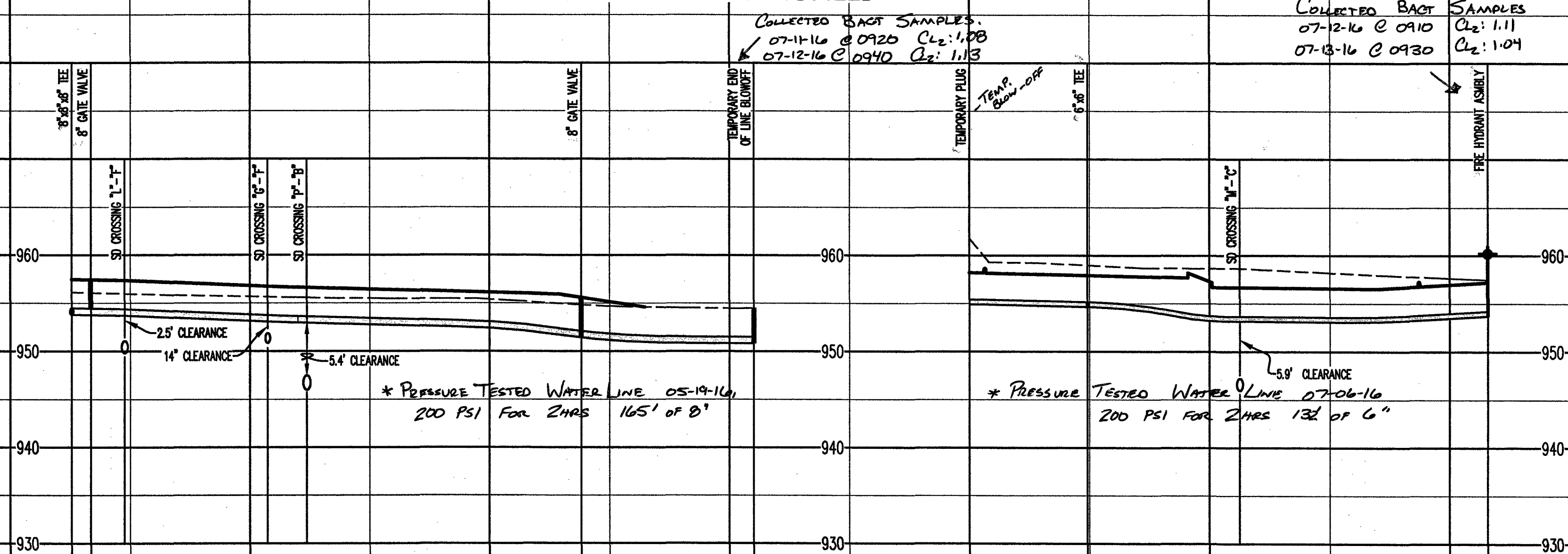
CONTECH PROPOSAL

BILL
LAYOUT XX

SANITARY SEWER PROFILE



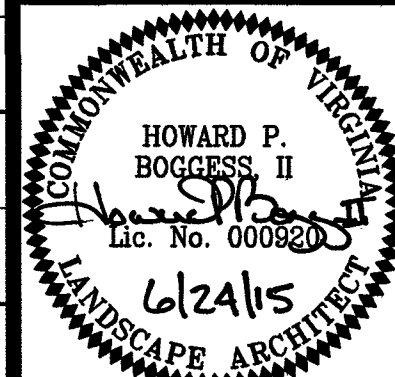
8" WATER LINE PROFILES



COLLECTED	BAGT	SAMPLES
07-12-16	@ 0910	Cl ₂ : 1.11
07-13-16	@ 0930	Cl ₂ : 1.04

* Pressure	TESTED WATER	LINE	07-06-16
	200 PSI FOR 2 HRS	132	OF 6"

LA
LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA



SANITARY SEWER & WATERLINE PROFILES & SWM DETAILS

COMPREHENSIVE DEVELOPMENT PLAN FOR MELLOW MUSHROOM

JMH, LLC
100 MARKET, ALONG FRANKLIN ROAD
THE CITY OF ROANOKE, VIRGINIA

JMH, LLC
100 MARKET, ALONG FRANKLIN ROAD
THE CITY OF ROANOKE, VIRGINIA

PHONE: (540) 774-4411
FAX: (540) 772-9445
E-MAIL: MAIL@LUMSDENPC.COM

REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: June 24, 2015

SCALE:
1" = 20'(H), 1" = 10'(V)
COMMISSION NO:

14-201
SHEET 7 OF 13