

John P East Memorial Hwy

VICINITY MAP

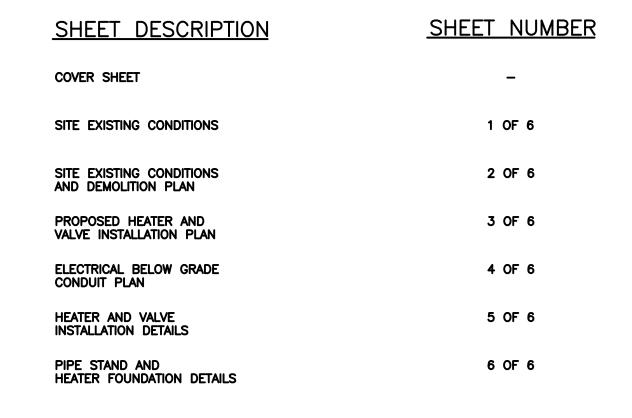
NOT TO SCALE

Greenville Utilities

PROPOSED HEATER INSTALLATION CITY GATE #3 GREENVILLE, NORTH CAROLINA

November 2017

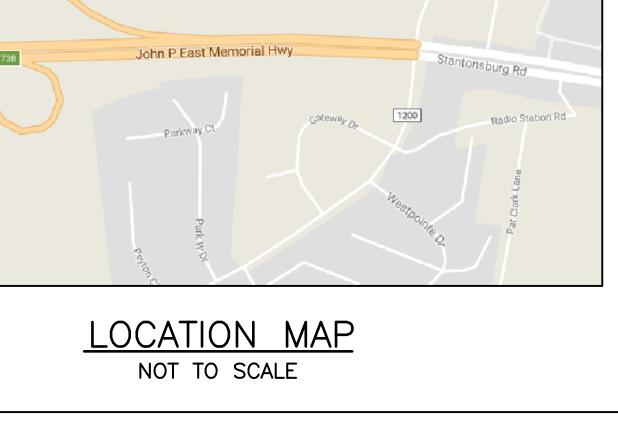
SHEET INDEX



			PIPING BILL OF MATERIALS					
ITEM NO.	QUANTITY	SIZE	DESCRIPTION					
1	80	7/8"x5 3/4"	STUD BOLT, GRADE B-7, (ASTM-A193), W/2 GRADE 2-H HEX NUTS (ASTM-A194) (4" ANSI 600, (8) BOLTS PER CONNECTION)					
2	10	4"	GASKET, ANSI 600, SPIRAL WOUND, FLEXITALLIC					
3	2	4"-5"x1"	THREDOLET, FOR 4" THRU 5" PIPE, 3000#					
4	1	6"-10"x1"	THREDOLET, FOR 6" THRU 10" PIPE, 3000#					
5	3	1"x3"	IIPPLE, PIPE, STEEL, GRADE B, SMLS, CS, TBE					
6	2	1"	PLUG, FORGED STEEL, HEX HEAD, SCREWED, 3000#					
7	1	1"	COUPLING, FORGED STEEL, SCREWED, 3000#					
7A	1	AS REQ'D	HEX BUSHING — SIZE AS REQUIRED TO ACCOMMODATE THERMOWELL AS PROVIDED BY HEATER MANUFACTURER					
8	2	4"	ELL, WELD END, 90 DEG., LONG RADIUS, GRADE B, WT=0.237"					
9	2	4"x4"	TEE, WELD END, STRAIGHT, GRADE B, WT=0.237"x0.237"					
10	10	4"	LANGE, WELD NECK, RF, ANSI 600, FORGED ST, WT = 0.237", BORE = 4.02"					
11	2	1"	VALVE, BALL, THREADED FEMALE ENDS, SWAGELOK SERIES 60, CLASS 3000					
12	3	4"	VALVE, BALL, CAMERON, T-31 FULLY WELDED BALL VALVE, R.F. FLANGED ENDS, ANSI 600, LEVER OPERATED					
13	1	-	HEATER					
14	40 LF	4"	PIPE, WT=0.237", GRADE B, BARE, CS, ERW, BE, SPEC API-5L					
15	5	4"	PIPE SUPPORT, EZ-LINE, MODEL NO. 204, FIGURE E, W/ NEOPRENE LINER, PART NO. 204-E, 4" P.S., D=3'-11" (SEE NOTE)					
16	20	1/2 " x5 "	BOLT, HILTI HIT-RE-100 INJECTABLE ADHESIVE WITH CARBON STEEL THREADED ROD					
17	4	1"x5"	BOLT, HILTI HIT-RE-100 INJECTABLE ADHESIVE WITH CARBON STEEL THREADED ROD					
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		-	-					

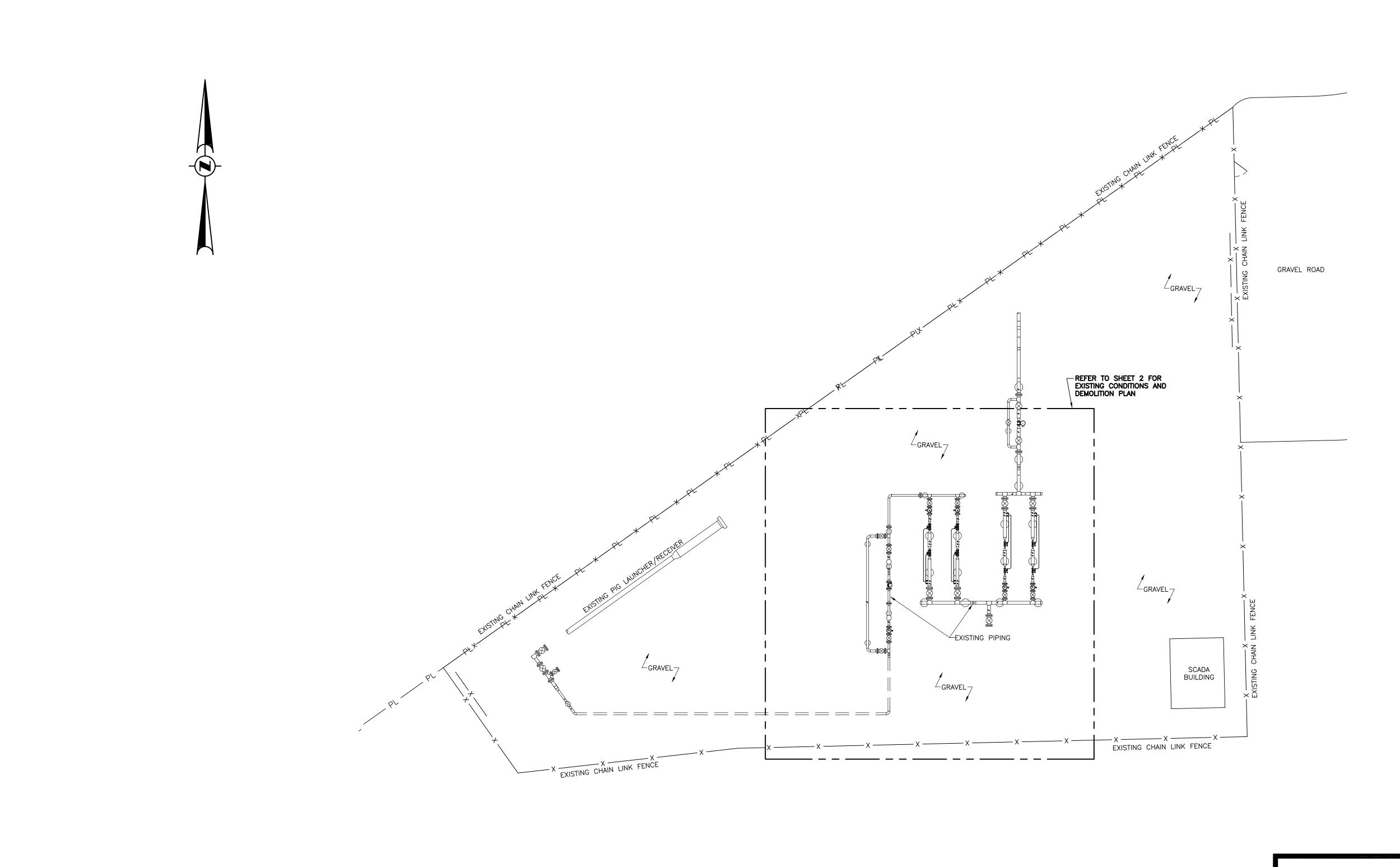
CONTRACTOR TO VERIFY HEIGHT OF EXISTING PIPING PRIOR TO CONSTRUCTION. VERIFICATION OF PIPING HEIGHT SHALL GOVERN THE HEIGHT OF HEATER FOUNDATIONS AND PIPE STANDS

For Review and Comment





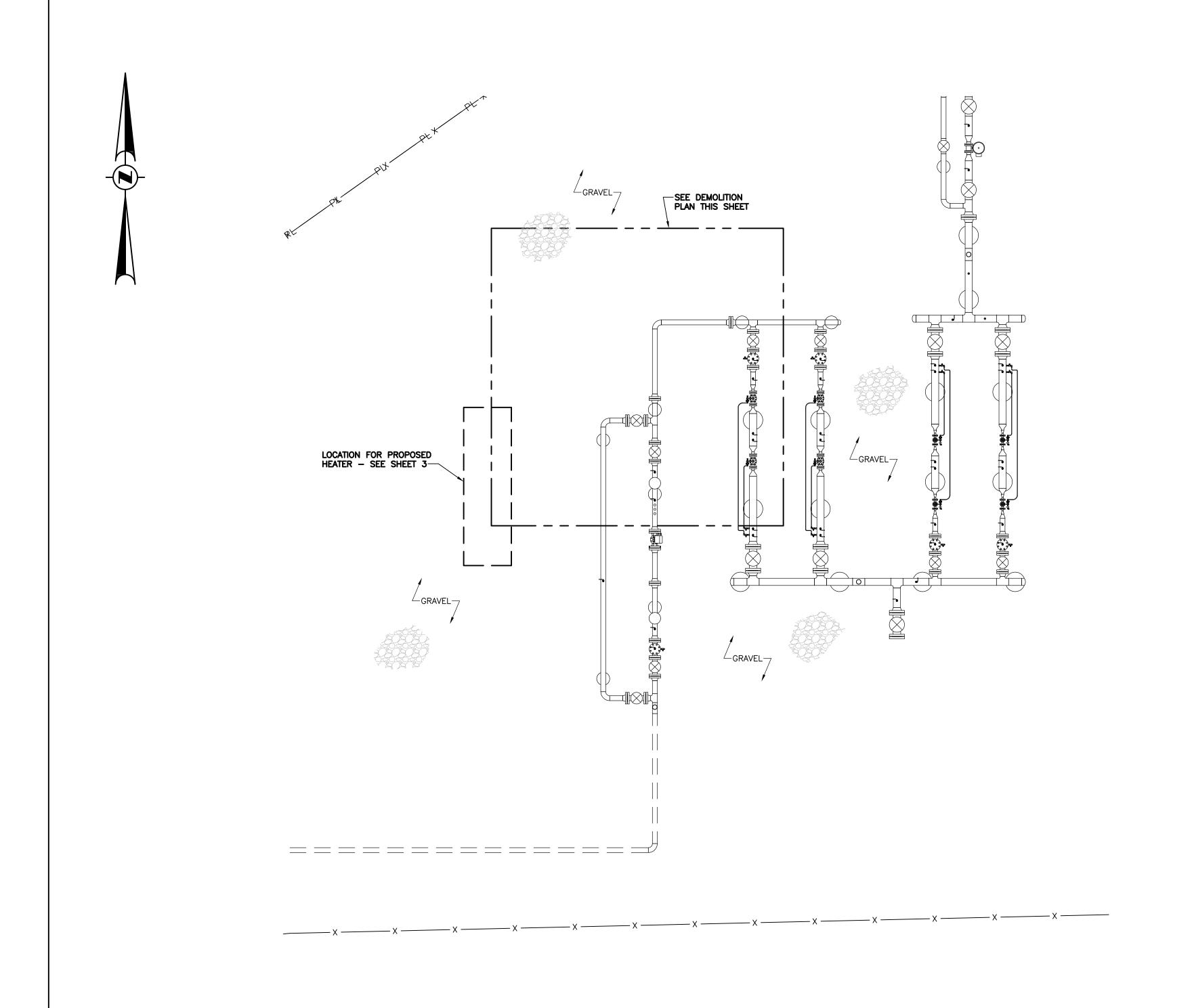
RUMMEL • KLEPPER and KAHL, LLP
ENGINEERS | CONSTRUCTION MANAGERS | PLANNERS | SCIENTISTS RICHMOND, VIRGINIA

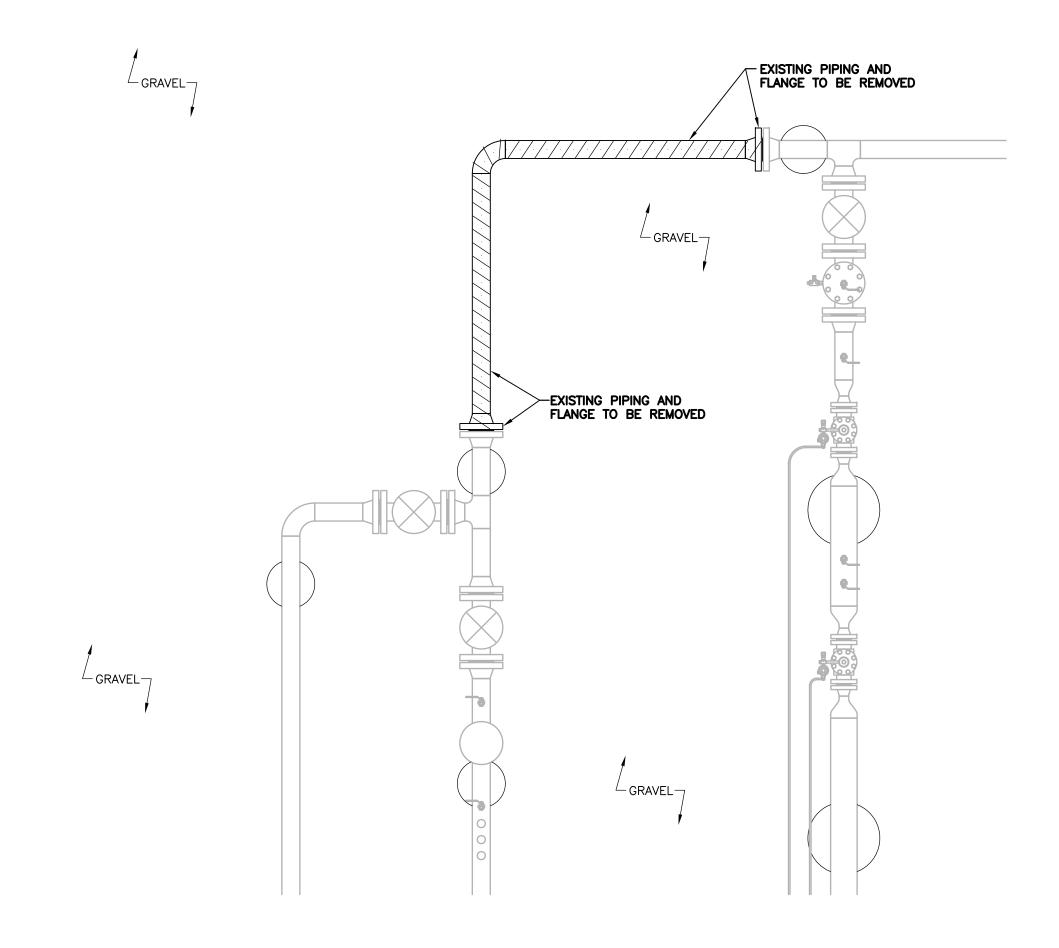


For Review and Comment

NOTE:
LOCATIONS OF PIPING, FENCING, AND
BUILDINGS SHOWN ON EXISTING DRAWINGS
DO NOT MATCH EXISTING SITE CONDITIONS.

	SUMMARY OF MATERIALS	NOTES	APPROVAL	PROJECT		
QUANTITY	DESCRIPTION		PERMITS BID CONSTRUCTION INITIALS DATE INITIALS DATE INITIALS DATE SURVEY O D	PROPOSED HEATER INSTALLATION CITY GATE #3 GREENVILLE, NORTH CAROLINA	Greenville Utilities City of Greenville, NC SHEET DESCRIPTION	
		REVISIONS REV. DESIGN DRAFT CHECK DESCRIPTION DATE DATE DATE DESCRIPTION DATE DATE DATE DESCRIPTION DATE DATE DATE DATE DATE DATE DATE DATE	DATE DRAFTING & DESIGN - RK&K AAL 11/21/17 ENGINEERING - RK&K CJV 11/21/17	ALIGNMENT SHEET		
			TEST DATA TESTED FROM STATION: TO STATION:	RUMMEL, KLEPPER & KAHL, LLP 2100 E. CARY STREET, SUITE 309 RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 ENGINEERS CONSTRUCTION MANAGERS PLANNERS SCIENTISTS SCALE PLAN 1"=10'-0" PROFILE	EXISTING SITE CONDITIONS	
			MEDIUM:RECORD TEST PRESSURE:psig DATE TEST COMPLETED:	RK&K COMM. NO. 1216-087.003	SHEET NO: 1 REVISION:	





SITE EXISTING CONDITIONS

SUMMARY OF MATERIALS

SCALE: 1" = 5'-0"

DEMOLITION PLAN

SCALE: 1/2" = 1'-0"

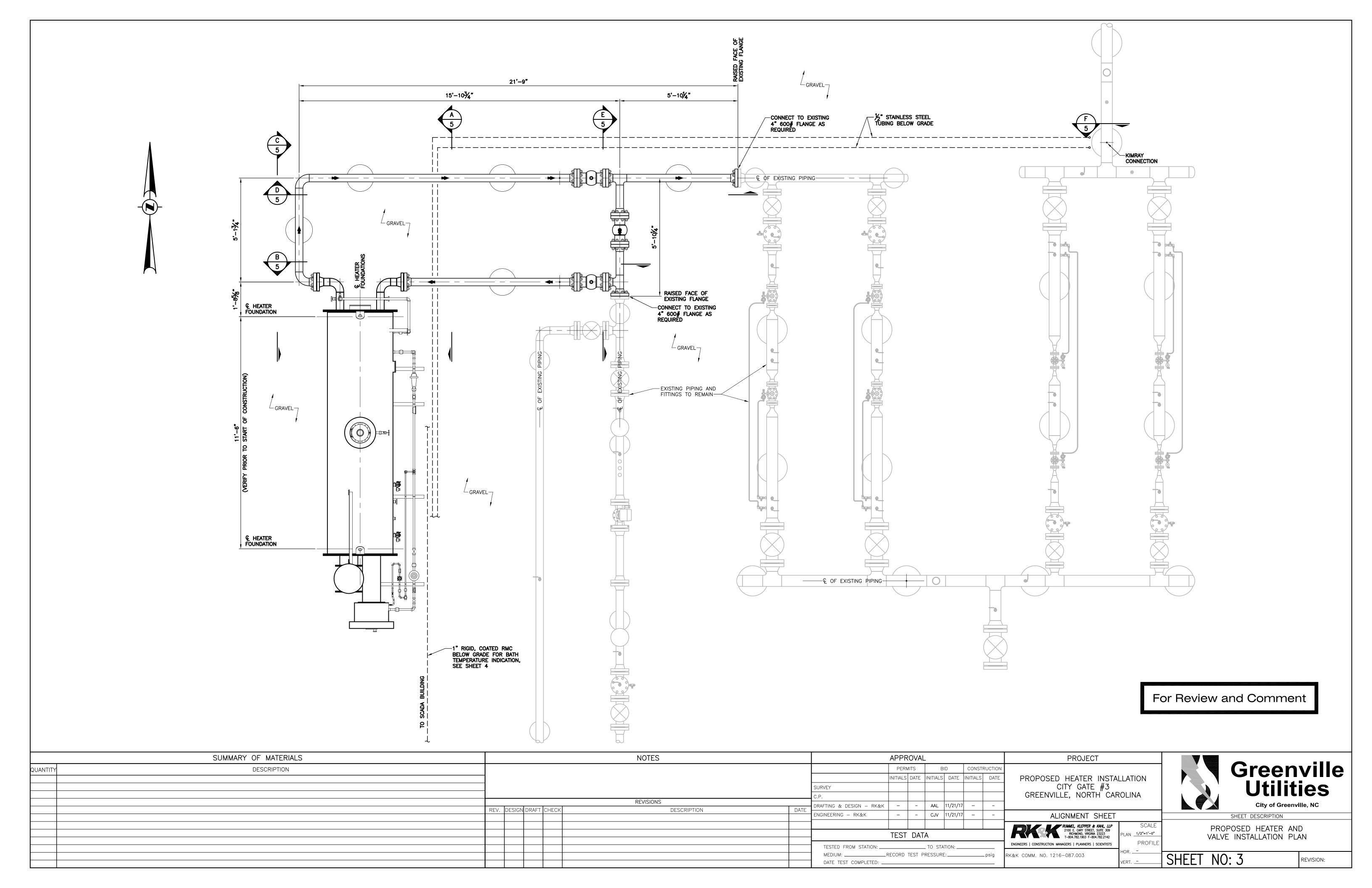
PROJECT

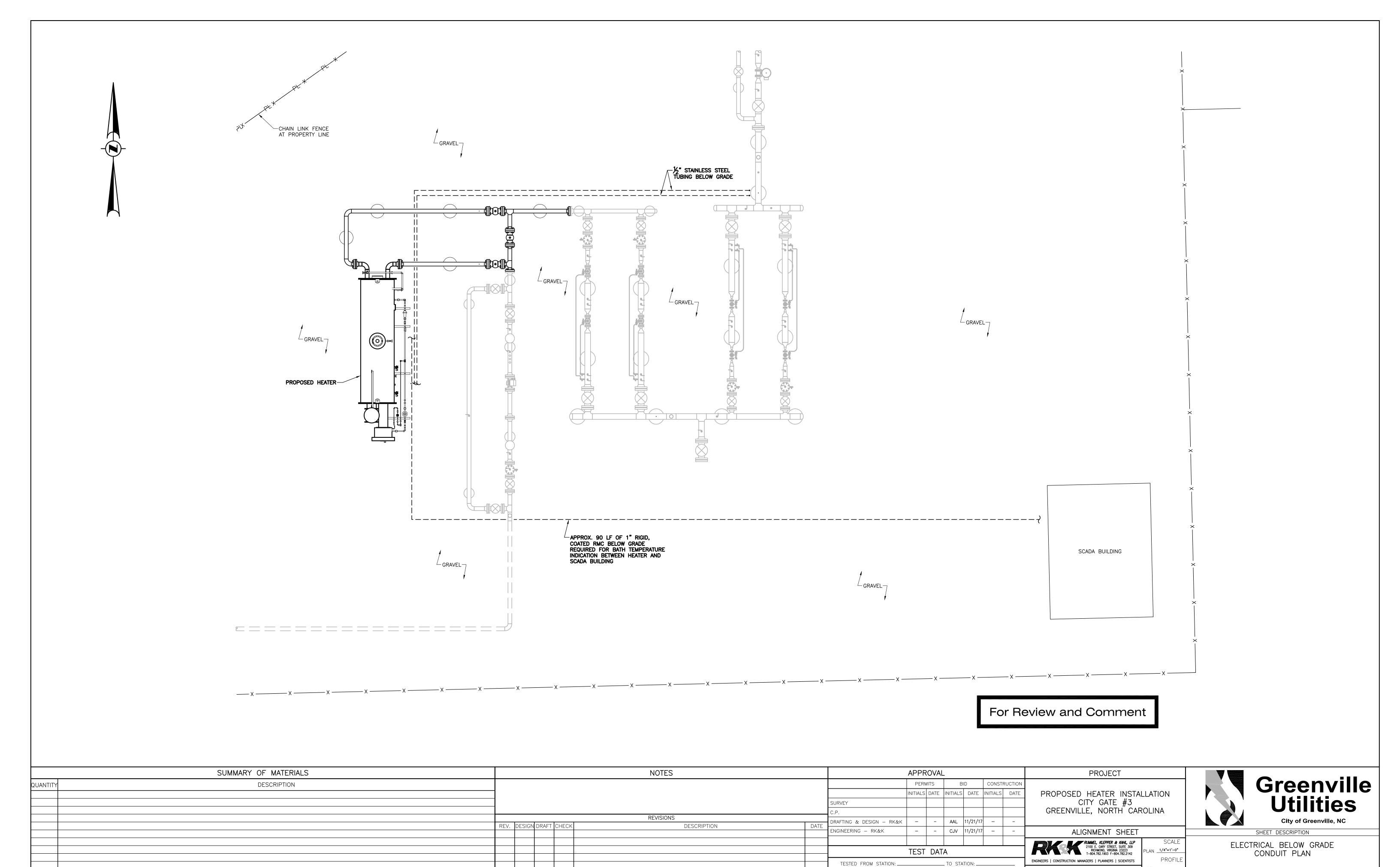
APPROVAL

For Review and Comment

QUANTITY	DESCRIPTION	REVISIONS	PERMITS BID CONSTRUCTION INITIALS DATE INITIALS DATE INITIALS DATE SURVEY C.P. DRAFTING & DESIGN - RK&K AAL 11/21/17	' T\ '
		REV. DESIGN DRAFT CHECK DESCRIPTION DATE	ENGINEERING - RK&K CJV 11/21/17 ALIGNMENT SHEET	SHEET DESCRIPTION
			TEST DATA TESTED FROM STATION:	SCALE AS SHOWN PROFILE SITE EXISTING CONDITIONS AND DEMOLITION PLAN
			MEDIUM:RECORD TEST PRESSURE:psig	

NOTES



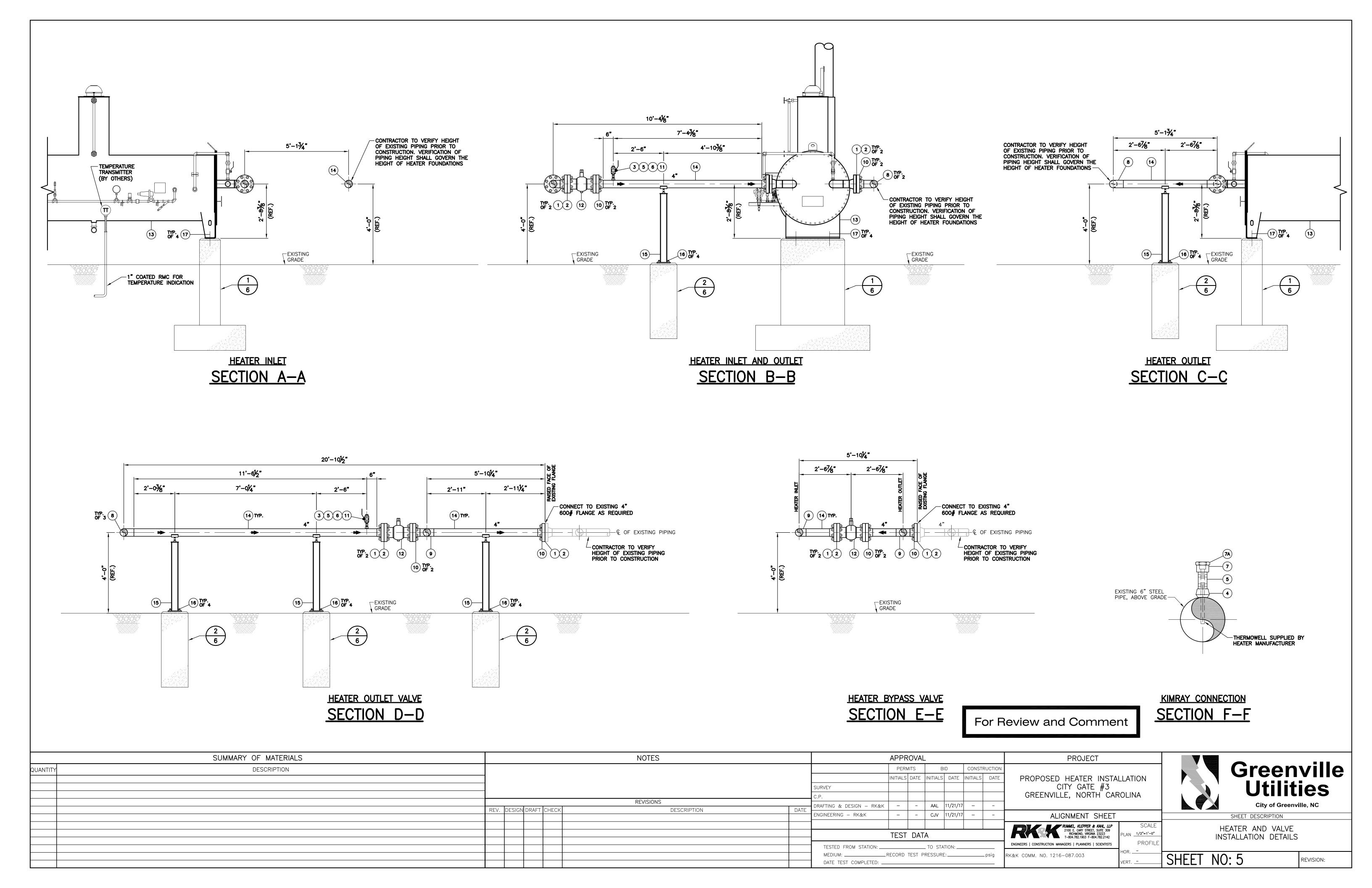


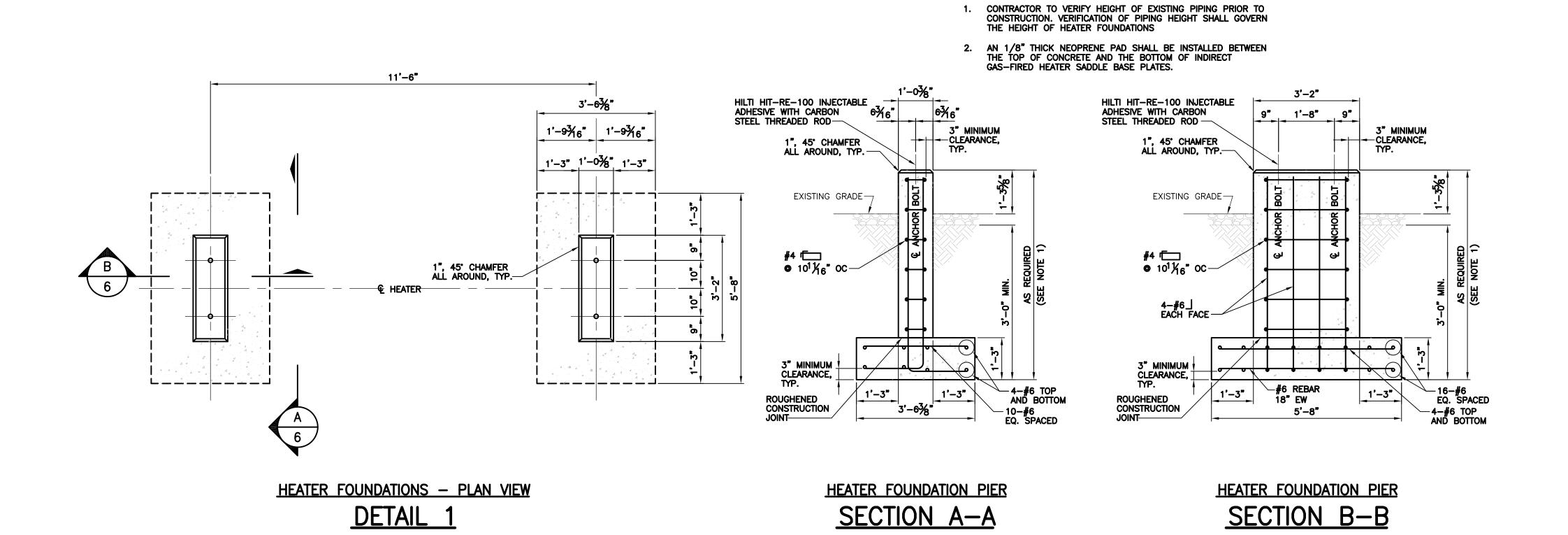
MEDIUM: _______RECORD TEST PRESSURE: ______psig

DATE TEST COMPLETED: _____

RK&K COMM. NO. 1216-087.003

REVISION:





1", 45' CHAMFER ALL AROUND, TYP.

EXISTING GRADE

4-#3 TIES
EQUALLY SPACED

3" MINIMUM
CLEARANCE, TYP.

SONOTUBE

SECTION

PIPE STAND FOUNDATION
DETAIL 2

For Review and Comment

	SUMMARY OF MATERIALS			NOTES		APPROVAL	PROJECT		
QUANTITY	DESCRIPTION					PERMITS BID CONSTRUCTION INITIALS DATE INITIALS DATE INITIALS DATE	PROPOSED HEATER INSTALLATION	Greenville	
						SURVEY SURVEY	CITY GATE #3 GREENVILLE, NORTH CAROLINA	Utilities	
		DEV DESIGN DRAF	TICHECK	REVISIONS DESCRIPTION	DATE	C.P. DRAFTING & DESIGN — RK&K — — AAL 11/21/17 — —	GREENVILLE, NORTH CAROLINA	City of Greenville, NC	
		ENGINEERING — RK&K	ENGINEERING - RK&K CJV 11/21/17	ALIGNMENT SHEET	SHEET DESCRIPTION				
							RUMMEL, KLEPPER & KAHL, LLP 2100 E. CARY STREET, SUITE 309 RICHMOND, VIRGINIA 23223 T-804.782.1903 F-804.782.2142 PLAN 1/2"=1'-0"	HEATER FOUNDATION DETAILS	
						TESTED FROM STATION: TO STATION:	ENGINEERS CONSTRUCTION MANAGERS PLANNERS SCIENTISTS PROFILE RK&K COMM. NO. 1216-087.003 HOR	SHEET NO: 6 REVISION:	