



# FIRE PROTECTION GENERAL NOTES

- SYSTEMS SHALL COMPLY WITH NFPA 13 AND ALL APPLICABLE STATE AND LOCAL CODES.
- FIRE PROTECTION CONTRACTOR SHALL OBTAIN APPLICABLE PERMITS AND LICENSES
- . INSPECTIONS AND FINAL APPROVAL BY LOCAL AHJ AND ARCHITECT / ENGINEER.
- . PIPE ROUTING SHALL BE COORDINATED WITH GC AND ALL TRADES. FIRE PROTECTION CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO PROJECT BID.
- . REFER TO ARCHITECTURAL REFLECTED CEILING AND ELECTRICAL LIGHTING DRAWINGS FOR CEILING DESCRIPTIONS AND HEIGHTS.
- . PROVIDE ACCESS PANELS TO ALL VALVES ABOVE INACCESSIBLE CEILINGS AND IN WALLS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- PROVIDE APPROVED / LISTED METHODS OF SEALING PENETRATIONS THROUGH SMOKE / FIRE WALLS, CEILINGS, ETC.
- 3. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, GRILLES, LIGHTING FIXTURES AND CEILING SYSTEMS. 9. SHOP DRAWINGS SHALL INDICATE CENTER TO CENTER DIMENSIONS OR PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING.
- 10. INDICATE PIPE TYPE, SCHEDULE OF WALL THICKNESS AND METHOD OF JOINING ON SHOP DRAWINGS.
- 1. PROVIDE THE ROOM NAMES FOR EACH AREA ON SHOP DRAWINGS.
- 12. PROVIDE STOCK OF EXTRA SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13 6.2.9.
- 3. SHOP DRAWINGS SHALL INCLUDE DETAILS OF HANGERS TO BE INSTALLED FOR SPRINKLER PIPING. HANGER DETAILS SHALL INCLUDE METHOD OF ATTACHMENT TO STRUCTURE.
- . METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13. HANGERS SHALL NOT INTERFERE WITH ANY OTHER
- 15. MATERIAL SUBMITTALS SHALL BE SUBMITTED TO ARCHITECT / ENGINEER AND SHALL BE APPROVED BEFORE ANY INSTALLATION.
- 16. THREADED PIPE SHALL BE STEEL, SCHEDULE 40, BLACK AND IN ACCORDANCE WITH SPECIFICATION ASTM A53 AND/OR A795.
- 17. THREADED SCHEDULE 40 BLACK STEEL PIPE SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH SPECIFICATION ASME B1.20.1.
- 18. GROOVED PIPE SHALL BE STEEL, SCHEDULE 40, BLACK AND IN ACCORDANCE WITH SPECIFICATION ASTM A53 AND/OR A795.
- 19. GROOVED PIPE SHALL BE JOINED BY GROOVED JOINTS IN ACCORDANCE WITH AWWA STANDARD C606.
- 20. GROOVED COUPLINGS AND GASKETS SHALL BE LISTED FOR USE IN DRY PIPE SPRINKLER SYSTEMS.
- 21. ALL PREACTION SYSTEM SPRINKLER PIPING SHALL BE PITCHED TO DRAIN PER NFPA 13 8.16.2.3. 22. AUTOMATIC SPRINKLER TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA 13.

SPRINKLER. MAINTAIN A MINIMUM 10 PSI SAFETY MARGIN AT PUMP OUTLET.

- 23. PROVIDE A PERMANENTLY ATTACHED NAME TAG STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY CALCULATED REMOTE AREA.
- 24. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE RENOVATED AREAS INCLUDING ALCOVES. SPRAY PATTERN SHALL NOT BE OBSTRUCTED.
- 25. ALL POWER WIRING SHALL BE ACCOMPLISHED UNDER ELECTRICAL DIVISION. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION. 26. THE FIRE PROTECTION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS, THE
- ARCHITECTURAL PLANS AND / OR FIELD CONDITIONS PRIOR TO CONSTRUCTION. 27. MAKE NO CHANGES WITHOUT ARCHITECT / ENGINEER'S WRITTEN PERMISSION. IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, OBTAIN ARCHITECT / ENGINEER'S DECISION BEFORE PROCEEDING WITH WORK INVOLVED. FAILURE TO FOLLOW THIS INSTRUCTION SHALL
- 28. BEFORE SUBMITTING PROPOSAL OF BID, FIRE PROTECTION CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT, THE AMOUNT OF SPACE AVAILABLE FOR PIPING EQUIPMENT AND CONNECTING SERVICES, THE SITE OF THE WORK, THE REQUIREMENTS TO CORRELATE THE
- 29. FIRE PROTECTION CONTRACTOR, AFTER EXAMINATION OF ALL PLANS AND SPECIFICATIONS, SHALL INCLUDE ALL THE COSTS NECESSARY FOR A COMPLETE AND FINISHED INSTALLATION IN ALL ASPECTS. IT IS THE INTENT THAT ALL COSTS FOR THE WORK REQUIRED BE INCLUDED IN THE BID OF THE FIRE PROTECTION CONTRACTOR.

FIRE PROTECTION WORK WITH THAT OF OTHER TRADES, AND THE TIME SCHEDULE NECESSARY TO PERFORM THE WORK.

- 30. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SHOP DRAWINGS OF ALL DISCIPLINES FROM THE PROJECT ARCHITECT TO USE FOR
- FIRE SPRINKLER SYSTEM DESIGN. 1. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATIONS OF ALL SPRINKLERS, PIPING, HANGERS, AND SUPPORTS WITH
- ARCHITECT AND ALL DISCIPLINES. 32. SUBMIT HYDRAULIC CALCULATIONS PROVING THE VIABILITY OF THE MOST HYDRAULICALLY REMOTE AREAS OF THE PROJECT. INDICATE HYDRAULIC REFERENCE POINTS AND SUBMIT COMPUTER ANALYZED NODAL CALCULATIONS IN BOTH TABULAR AND GRAPHICAL FORMATS. HYDRAULIC IMBALANCE SHALL NOT EXCEED 0.01 GPM AT A NODE, AND WATER VELOCITY SHALL NOT EXCEED 25 FEET PER SECOND. DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS OF NFPA 13 REGARDING DENSITY, AREA OF COVERAGE, SELECTION OF HYDRAULICALLY REMOTE AREAS, AND MAXIMUM COVERAGE PER

Date of Test: Type: Fire Department Attendee:				Test: 2	2021-10-26								
				Туре: 🛛	Annual Flow Test with new controller commissioning.								
				ndee:	N/A								
Building Representative Attendee:				ndee: [	an Purini								
Testing Firm Attendee: Pump Manufacturer Attendee: Flow Device Used:				ndee: J	amie Widen	er							
				ndee: J	ohnny Leva	n Controllei	r Rep						
				Used: 2	2" Pitotless Nozzle + Open Atmosphere								
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	RPM	Disch.	Pressures Suct.	Net	Flow	nd Replacir	e repacked ng the casir	g relief valv	re. Flow	Volts	Amps	Corre Flow %	
			Suct.	Net	Flow Flow	nd Replacir Streams	ng the casir	g relief valv Total Flow GPM	Flow % Rated Capacity	484	47	Flow %	Pres
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	1795	191	Suct. 95	Net 96	Recomment Flow Flow Device PSI GPM Flow Device PSI GPM Flow Device	Streams 1 - PN2-ATM 10	2 - PN2-ATM 10	g relief valv Total Flow GPM	Flow % Rated Capacity 0	484 485 480 483 485	47 53 48 82 89	Flow %	ected Press

# PROJECT NOTES

### THIS PROJECT CONSISTS OF A PARTIAL RENOVATION TO AN EXISTING SPRINKLERED MUSEUM THAT INCLUDES REPLACEMENT AND MODIFICATIONS TO EXISTING ROOF SYSTEMS AND CONSTRUCTION OF A TEMPORARY CIRCULATION TUNNEL ON THE FIRST FLOOR TO PROTECT VISITORS FROM OVERHEAD CONSTRUCTION. THE EXISTING PREACTION SPRINKLER SYSTEM PROTECTING THE RENOVATION AREAS OF THIS PROJECT SHALL BE MODIFIED AS SPECIFIED IN THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO PROVIDE THE REQUIRED SPRINKLER PROTECTION PER NFPA 13 AND NFPA 72. THE TEMPORARY CIRCULATION TUNNEL SHALL BE PROVIDED WITH SPRINKLER PROTECTION AND SHALL REMAIN ACTIVE, ALONG WITH THE EXISTING FIRST FLOOR SPRINKLER SYSTEM, FOR THE DURATION OF CONSTRUCTION. ALL SPRINKLER SYSTEM PIPING AND COMPONENTS PROTECTING THE TEMPORARY CIRCULATION TUNNEL SHALL BE COMPLETELY DEMOLISHED IN CONJUNCTION WITH DEMOLITION OF THE TEMPORARY

- MODIFICATIONS TO THE EXISTING PREACTION SPRINKLER SYSTEM INCLUDES DEMOLITION OF EXISTING PREACTION SPRINKLER SYSTEM COMPONENTS AND INSTALLATION OF NEW PREACTION SPRINKLER SYSTEM COMPONENTS AS SHOWN ON THE FIRE PROTECTION DRAWINGS.
- PERFORM PREACTION SYSTEM OPERATIONAL TEST IN ACCORDANCE WITH NFPA 13 AND NFPA 72 PRIOR TO MAKING MODIFICATIONS TO EXISTING SYSTEM TO VERIFY ALL EXISTING COMPONENTS ARE IN SATISFACTORY CONDITION. RECORD TEST RESULTS, INCLUDING PREACTION VALVE TRIP TIME, WATER DELIVERY TIME TO INSPECTOR'S TEST, AND TIME IT TAKES EXISTING COMPRESSOR TO FILL SYSTEM PIPING. NOTIFY GC/ARCHITECT/ENGINEER IF TEST RESULTS DO NOT MEET THE REQUIREMENTS OF NFPA 13 AND NFPA 72.
- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS THAT INCLUDES THE ENTIRE LAYOUT OF THE EXISTING PREACTION SPRINKLER SYSTEM PROTECTING THE RENOVATION AREA WITH SEPARATE DEMOLITION AND RENOVATION PLANS CLEARLY INDICATING MODIFICATIONS TO THE EXISTING SYSTEM.
- 5. NEW SPRINKLERS SHALL BE INSTALLED TO MEET ALL INSTALLATION AND OBSTRUCTION RULES OF CHAPTER 8 OF NFPA 13.
- . NEW HEAT DETECTORS SHALL BE INSTALLED PER NFPA 13, NFPA 72, AND THE INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER OF THE SELECTED HEAT DETECTORS. NEW HEAT DETECTORS SHALL BE COMPATIBLE WITH THE EXISTING PREACTION SYSTEM COMPONENTS. WHITE QUICK RESPONSE SEMI-RECESSED PENDENT SPRINKLERS SHALL BE INSTALLED IN ALL AREAS WITH CEILINGS.
- 8. BRASS QUICK RESPONSE UPRIGHT SPRINKLERS SHALL BE INSTALLED IN ALL AREAS WITHOUT CEILINGS.

CIRCULATION TUNNEL NEAR PROJECT COMPLETION.

- 9. All hangers attached to existing piping that is to be demolished shall be removed from structure during demolition.
- 10. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE VERIFICATION OF SYSTEM DEMAND VIA HYDRAULIC CALCULATIONS AS DESCRIBED IN THE FIRE SPRINKLER SPECIFICATIONS FOR THE MOST REMOTE AREA/AREAS THAT INCLUDE RENOVATIONS TO THE FIRE SPRINKLER SYSTEM. THE PROVIDED FIRE
- PUMP FLOW TEST RESULTS SHALL BE USED AS THE WATER SOURCE FOR HYDRAULIC CALCULATIONS. . FIRE SPRINKLER CONTRACTOR SHALL VERIFY ALL EXISTING FITTINGS, PIPING, CONTROL VALVES, AND PRESSURE REDUCING VALVES LOCATED IN THE
- PIPE RUN FROM THE HYDRAULICALLY MOST REMOTE AREA TO THE FIRE PUMP OUTLET ARE INCLUDED IN THE HYDRAULIC CALCULATIONS. 12. FIRE SPRINKLER RENOVATIONS ARE LIMITED TO THE HATCHED AND NOTED AREAS OF THE FIRE PROTECTION PLANS.
- 13. TEMPERATURE RATINGS OF NEW SPRINKLERS SHALL COMPLY WITH NFPA 13 8.3.2.
- 4. COORDINATE FIRE SPRINKLER SYSTEM SHUTDOWN WITH GC AND OWNER, AND INSURE SPRINKLER SYSTEM IMPAIRMENT PROCEDURES ARE FOLLOWED, AS PROVIDED BY THE BUILDING OWNER'S INSURANCE UNDERWRITER.
- 15. PROVIDE EARTHQUAKE PROTECTION PER NFPA 13. SUBMIT CALCULATIONS & DRAWINGS THAT SUPPORT BRACING SPAN LENGTHS AND LOCATIONS.
- 16. FIRE PROTECTION CONTRACTOR SHALL PAINT ALL NEW PIPING, FITTINGS, PLUGS, HANGER MATERIALS, AND SEISMIC MATERIALS WHITE TO MATCH THE COLOR AND SHEEN OF THE EXPOSED STRUCTURE IN THE RENOVATION AREAS WITHOUT CEILINGS. COORDINATE WITH GC/ARCHITECT.
- . ORIGINAL FIRE PROTECTION AS-BUILT DRAWINGS ARE PROVIDED FOR REFERENCE ONLY. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND SHOWING ACCURATE INFORMATION ON THE FIRE PROTECTION SHOP DRAWINGS. THE FIRE PROTECTION AS-BUILT
- DRAWING SHEETS PROVIDED ARE AS FOLLOWS: A. 1 OF 32 – PLOT PLAN
- B. 2 OF 32 FIRST FLOOR STANDPIPE, BULK PIPE, ETC. PLAN 3 OF 32 - SECOND FLOOR STANDPIPE, BULK PIPE, ETC. PLAN
- 4 of 32 Third Floor Standpipe, Bulk Pipe, etc. Plan 5 OF 32 - FOURTH FLOOR STANDPIPE, BULK PIPE, ETC. PLAN
- 27 OF 32 CENTRAL ENERGY FACILITY & FIRE PUMP DETAILS 28 OF 32 - FIRST FLOOR HEAT DETECTOR PLAN 29 OF 32 - SECOND FLOOR HEAT DETECTOR PLAN
- 32 OF 32 FIRST AND SECOND FLOOR ZONE 4 ATRIUM PLAN

# FIRE PROTECTION PHASING SCHEDULE

- PERFORM PREACTION SYSTEM OPERATIONAL TEST FOR THE ZONE 4 PREACTION SYSTEM AS INDICATED IN THE PROJECT NOTES AND ON SHEET FP1.1. DEMOLISH THE EXISTING SPRINKLERS AND PIPING ON THE FIRST FLOOR LEVEL AS INDICATED IN DEMOLITION KEYNOTE 5 FOUND ON SHEET FP1. INSTALL NEW TEMPORARY SPRINKLERS AND HEAT DETECTORS IN THE TEMPORARY TUNNEL AND UNDER THE TEMPORARY COVERED OPENING ON THE FIRST FLOOR LEVEL AS INDICATED ON SHEET FP1.1. COORDINATE INSTALLATION WITH GC.
- INSTALL NEW HEAT DETECTORS ON THE FIRST FLOOR LEVEL AS INDICATED ON SHEET FP1.1. COORDINATE INSTALLATION WITH GC. REPLACE EXISTING PENDENT SPRINKLERS AT THE EXISTING CEILINGS ON THE FIRST FLOOR LEVEL AS INDICATED ON SHEET FP1.1. REPLACE EXISTING UPRIGHT SPRINKLERS IN CORRIDOR E161 ON THE FIRST FLOOR LEVEL AS INDICATED ON SHEET FP1.1.
- DISCONNECT EXISTING RISER PIPING SUPPLYING THE SECOND FLOOR OF THE OLD BOILER BUILDING AND OLD GREENHOUSE SYSTEM PIPING AND CAP OUTLET OF EXISTING MAIN AT THE FIRST FLOOR. DISCONNECT EXISTING RISER PIPING SUPPLYING THE ATRIUM ROOF SYSTEM PIPING AND CAP OUTLET OF EXISTING MAIN AT THE FIRST FLOOR. DISCONNECT EXISTING HEAT DETECTORS LOCATED AT THE ROOFS OF THE ATRIUM, OLD BOILER BUILDING, AND OLD GREENHOUSE FROM THE EXISTING PREACTION SYSTEM RELEASE PANEL
- PERFORM PRESSURE TESTS AND PREACTION SYSTEM OPERATIONAL TEST FOR THE PORTION OF THE PREACTION SYSTEM ON THE FIRST FLOOR THAT IS TO REMAIN ACTIVE DURING PHASE 2 DEMOLITION AND RENOVATIONS. PLACE EXISTING PREACTION SYSTEM IN SERVICE SO THAT ALL AREAS OF THE FIRST FLOOR PROTECTED BY THE ZONE 4 PREACTION SYSTEM REMAIN PROTECTED DURING PHASE 2 DEMOLITION AND RENOVATIONS.
- PHASE 2

PHASE 1

- . DEMOLISH COMPLETE THE PORTIONS OF THE EXISTING ZONE 4 PREACTION SPRINKLER SYSTEM AS INDICATED IN THE PROJECT NOTES AND ON SHEETS FP1.1, FP1.2, AND FP1.3. . INSTALL NEW PREACTION SPRINKLER SYSTEM PIPING AND COMPONENTS COMPLETE AS INDICATED IN THE PROJECT NOTES AND ON SHEETS FP1.1. FP1.2.
- AND FP1.3. (NOTE: PIPING AND COMPONENTS SHALL BE PAINTED WHITE PER PROJECT NOTES.) PERFORM PRESSURE TESTS IN ACCORDANCE WITH NFPA 13 ON THE NEW SYSTEM PIPING PRIOR TO CONNECTING TO THE EXISTING SYSTEM PIPING. CONNECT NEW PREACTION SYSTEM PIPING TO THE EXISTING PIPING AS INDICATED ON SHEETS FP1.1, FP1.2, AND FP1.3.
- CONNECT NEW PREACTION SYSTEM HEAT DETECTORS TO THE EXISTING RELEASE PANEL AS INDICATED ON SHEETS FP1.1, FP1.2, AND FP1.3. DEMOLISH COMPLETE THE NEW SPRINKLERS, HEAT DETECTORS, AND ASSOCIATED COMPONENTS INSTALLED IN THE TEMPORARY TUNNEL AND UNDER THE TEMPORARY COVERED OPENING ON THE FIRST FLOOR LEVEL AS INDICATED ON SHEET FP1.1. COORDINATE DEMOLITION WITH GC. PERFORM FINAL PRESSURE TESTS AND PREACTION SYSTEM OPERATIONAL TEST IN ACCORDANCE WITH NFPA 13 AT COMPLETION OF PROJECT.
- PLACE ZONE 4 PREACTION SYSTEM IN SERVICE AFTER ALL TESTS HAVE BEEN COMPLETED SATISFACTORILY.

				Projec	t Data					
				& Atrium Roof/Window F	Replacement					
Location in South Carolina:		-		301 Gervais Street				State Project: 🔳 Yes 🖾 No		
South C	ai onna.	City: C	olumbia		ounty: Richland		State Proje	ct #: D50-6037-PD		
			(Flew	Water Supply test data must be less than	Information I year old per §40-1	10-250(A)(1))				
Date test	conducted	10	/ 26 / 2021	Static pressure		sidual pressure	(psi): NA	Flow (gpm): NA		
Distance	es of test ga	uges re	lative to the bas		orizontal (ft): NA		al (elevation dif	Terence in 19): NA		
Source (	of water su	pply:	D Municipal desc	-end 🔲 Municipal circula	tion 🔳 existing fire	pump 🔲 Other:		Pipe Size (in.): NA		
Test data by/from:		Name: Jamie Widener				Title: Inspector				
		Organization: Liberty					Phone: 80	3-256-0000		
inc pump.		New Existing No Pump		Rated Pressure (psi): 1	60 Actual	Churn Pressure (				
				Rated Capacity (gpm):		Pressure @ 150		-		
		ige:	🖸 Yes 🖲 No	O New D Existing O		IA C	apacity (gal):	A		
				NFPA Hazard (Attach continuation		â				
	Hazard Cla		de Descriptio	on of Hazard Protec	ed (including occup	sancy use group, and				
Area #	# Reference applicable (including commodity class, rack arrangement/type, ceiling and ste									
1		t Hazard	Center Iu	innel, South Tunnel, Nor			ireen House (A	ssembly Group A-3)		
2	Lign	Hazaro	Hazard Atrium (Assembly Group A-3)							
				Design Pa	rameters					
				(Attach continuation		<u>0</u>				
Area #	System	Type Density(gpm/ft <sup>2</sup>		Area(ft <sup>2</sup> ), or Other	(Reference code s	sections) Insid	le Hose (gpm)	Outside Hose (gpm)		
1	Preact	ion	0.10/1950 (Rem	ote area increase require	d per NFPA 13 11	.2.3.2.5)	100 0			
2	Preacti	on	0.10/2535 (Rem	ote area increase require	d per NFPA 13 11	.2.3.2.5)	100	0		
		1			-					
Seismic Design Data:		58=	0.347	Site Classification Codes and		Seismic De	ic Design Category= C			
				(Attach continuation		()				
Applie	cable Codes,	Standar	ds, & Editions (i.e	2018 IBC, 2016 NFP		Scope of Work of	on the Fire Sp	rinkler System		
-				2018 IBC, 20	16 NFPA 13					
				A.F.F., U.G. from tap to reaction sprinkler system Specifier's I	n in an existing spri					
Museum.		i			mm	CARO		CAST		
Name: Je	off Bernagozz		ed through a firn	n: 🔳 Yes 🔲 No	HIUM	- CIAN	Ture.	A CARO		
Name: Je	*	s provid	_		36/	T	1000	No P		
Name: Je Engineer Firm nan	ring service ne: GMK Ass	ociates			= /		- 12	<u></u>		
Name: Je Engineer Firm nar	ring service	ociates	ite 2100			K, INC.	111	No. 21297 0		
Name: Je Engineer Firm nar Address:	ring service ne: GMK Ass 1201 Main S	ociates				K, INC. COO287	GISTE	No. 21297 6		
Name: Je Engineer Firm nar Address: City: Colu	ring service ne: GMK Ass 1201 Main S umbia	ociates	ite 2100 Zip: 29201				ALSO STE	No. 21297 61		
Name: Je Engineer Firm nar Address: City: Colu State: SC Phone: 80	ring service ne: GMK Ass 1201 Main S umbia	ociates Street, Su	Zip: 29201 Fax: 803-2	-			TSIO STE	No. 21297 6		

# MAKE THE CONTRACTOR LIABLE FOR DAMAGE TO OTHER WORK AND FOR REMOVING AND REPAIRING DEFECTIVE OR MISLOCATED WORK IN PROPER MANNER.

