ADDENDUM NUMBER: TWO

PROJECT: New Field House – Northern Nash High School

4230 Green Hills Road

Rocky Mount, North Carolina 27804

PROJECT NO: 21038

DATE: May 17, 2023

OWNER: Nash County Public Schools

903 Eastern Ave

Nashville, North Carolina 27856

ARCHITECT: Oakley Collier Architects, P.A.

109 Candlewood Road

Rocky Mount, North Carolina 27804

(252) 937-2500

PREVIOUSLY ISSUED: Addendum One

TO ALL CONTRACTORS:

This Addendum is hereby made a part of the Contract Documents to the same extent as if originally included therein. This Addendum must be acknowledged on the Form of Proposal and shall be placed with the Contract Documents.

Drawings and Project Manual dated April 24, 2023, for this project are hereby modified, corrected, or supplemented as follows:

Substitution Requests

Subject to requirements of plans and specifications, the following manufacturers are approved to bid:

Section	Section Title	Manufacturer / Product
10 51 13	Metal Lockers	Lockers Manufacturing / Knock Down and Open Front

Specifications

Item <u>1</u> Clarification Section 04 20 00 – Unit Masonry

2.01.B.1.b.1 – Color: Canary Islands JCL-3532.

Oldcastle Polished – Color: 4307.

Item <u>2</u> Clarification Section 26 20 10 – Fire Alarm System

This is a Standalone, Addressable Fire Alarm System with standard horn/strobe devices and is NOT a Voice Notification system. A printer in the FACP is not

required.

Drawings

Item <u>1</u> Clarification BD-1 (Reference Sheet – CE-04)

Remove existing water and sanitary sewer as indicated on this sketch for existing

buildings being demolished and noted TBR on civil plan set.

Item 2 Change Sheet P0.1

Remove the existing sheet in its entirety and replace it with the attached sheet -

Changed fuel type from propane to natural gas in the GWH Schedule.

Item 3 Change Sheet M0.1

Remove the existing sheet in its entirety and replace it with the attached sheet – Revised general note #19, changed fuel type from propane to natural gas in Gas

Pack Schedule, changed fuel type from propane to natural gas in the Unit Heater

Schedule.

Item <u>4</u> Change Sheet M1.1

Remove the existing sheet in its entirety and replace it with the attached sheet –

Removed propane regulator and added natural gas meter location and notes, added note for Contractor to provide secondary regulators for all gas fired

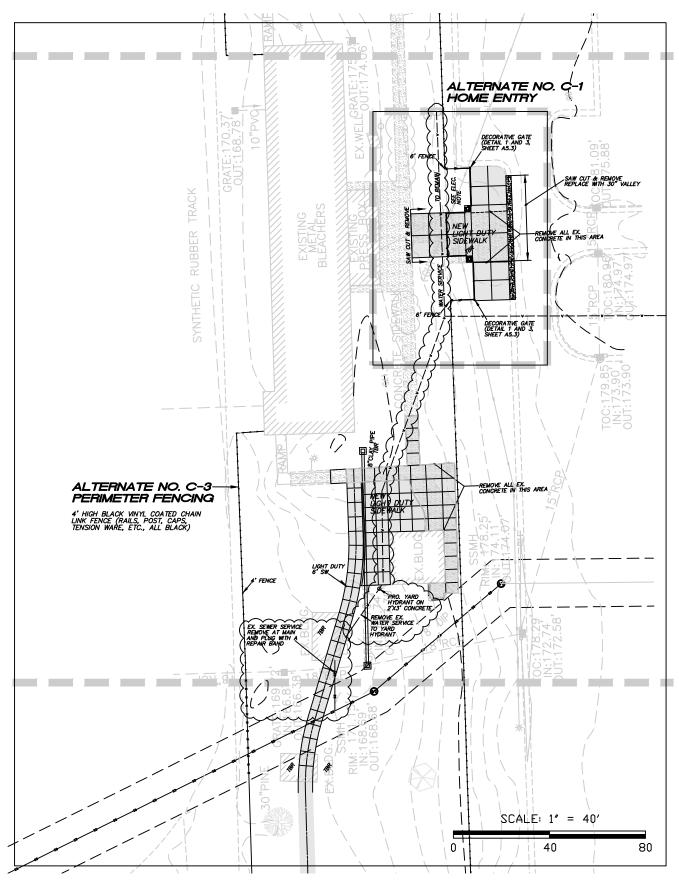
equipment.

Item <u>5</u> Change Sheet FA1.1

Remove the existing sheet in its entirety and replace it with the attached sheet -

Added (7) carbon monoxide detectors.

End of Addendum



BD-1

- 1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING
- 2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- 3. THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING FIXTURES & EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.
- 4. THE LOCATIONS OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED; CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & IS RESPONSIBLE FOR ANY DAMAGE INCURRED BY FAILURE TO DO SO. CALL UTILITY LOCATOR SERVICE 48 HOURS BEFORE EXCAVATION (1-800-632-4949). ALSO CONTACT SCHOOL MAINTINANCE DEPARTMENT AND USE PRIVATE UTILITY LOCATOR SERVICE AS NEED TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES.
- 5. THESE PLANS ARE DIAGRAMMATIC. DO NOT SCALE THESE DRAWINGS. REFER TO LARGEST SCALE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING
- 6. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).
- 7. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
- 8. HVAC DUCTWORK HAS RIGHT-OF-WAY OVER PLUMBING PIPES; COORDINATE AS REQUIRED. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, ETC., PER NEC ARTICLE 110.
- 9. ALL SUPPLY, DRAIN, AND VENT PIPING SHALL BE CONCEALED (EXCEPT AT FIXTURES) UNLESS OTHERWISE NOTED. ALL PIPE CONTAINING LIQUIDS INSIDE BUILDING ARE TO BE LOCATED WITHIN THE "INSULATION ENVELOPE".
- 10. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE, BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.
- 12. ALL DOMESTIC WATER PIPING SHALL BE TYPE L COPPER ABOVE GRADE, TYPE K BELOW WITH NO JOINTS UNDER SLAB. INSULATE HOT AND COLD WATER PIPING AS SPECIFIED. PRESSURE TEST SYSTEM AT 100 PSIG FOR 24 HOURS OR 150 PSIG FOR 4 HOURS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
- 13. ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
- 14. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
- 15. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
- 16. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2,CSA CAN/CSA-B182.4
- 17. VENT LINES SHALL SLOPE UP TO VTR.
- 18. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS
- 19. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.
- 20. PROVIDE CHROME-PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, CEILINGS, OR FLOORS.
- 21. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
- 22. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.
- 23. ALL EXPOSED WATER SUPPLY AND WASTE LINES UNDER OPEN SINKS/LAVATORIES SHALL HAVE PROTECTIVE DEVICES INSTALLED TO MEET LATEST NCSBC AND ADA REQUIREMENTS.
- 24. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
- 25. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
- 26. WATER HEATERS SHALL COMPLY WITH N.C ENERGY CODE SECTION 504 OF THE NC BUILDING CODE.
- 27. WATER CLOSETS SHALL BE MOUNTED ON CAST IRON FLANGES.
- 28. CLEANOUTS & FLOOR DRAIN STRAINERS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR ELEVATION. FLOOR DRAINS SHALL BE INSTALLED TO PROVIDE PROPER DRAINAGE OF SPACE.
- SPECIFIED IN THE N.C. PLUMBING CODE SECTION 412.6. 30. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT

29. ALL FLOOR DRAINS, HUB DRAINS, AND FLOOR SINKS SHALL HAVE TRAP PRIMERS OR HOSE BIBS, INSTALLED AS

- INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.
- 31. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED 32. ALL VERTICAL WASTE STACKS SERVING MULTI-STORY BUILDINGS OR DWELLINGS SHALL BE CONSTRUCTED OF CAST
- IRON PIPE CONFORMING TO ASTM A 74, ASTM A 888, CISPI 301. JOIN CAST IRON WASTE STACKS TO HORIZONTAL PVC WASTE PIPING USING APPROPRIATE FITTINGS MEETING CORRESPONDING ASTM STANDARDS. 33. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C.
- PLUMBING CODE. 34. ALL PLUMBING CONSTRUCTION PENETRATING FIRE—RATED SURFACES AND NON—RATED PARTITIONS SHALL BE SEALED
- PER FIRE STOPPING DETAIL ON SHEET FP-001 OR THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY, VOLUME 2.
- 35. "PROVIDE" IS DEFINED AS FURNISH AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- 36. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL EXTERNAL DISCONNECTS THAT ARE REQUIRED FOR EQUIPMENT PROVIDED UNDER THIS CONTRACT. PLUMBING CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES FOR ALL FUSED DISCONNECT SWITCHES. COORDINATE DISCONNECT AND FUSE INSTALLATION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING DISCONNECT SWITCHES AND FUSES. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LINE SIDE WIRING AND CONDUIT TO EXTERNALLY OR INTERNALLY MOUNTED DISCONNECTS AND SHALL PROVIDE AND INSTALL LOAD SIDE WIRING AND CONDUIT FROM EXTERNALLY MOUNTED DISCONNECT SWITCHES TO PLUMBING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS TO PLUMBING EQUIPMENT. SEE "PLUMBING EQUIPMENT ELECTRICAL CONNECTION DETAIL"
- 37. PLUMBING CONTRACTOR SHALL PROVIDE MARKING TAPE AND TRACER WIRE FOR ALL NONE METALLIC PIPING BELOW GRADE. TAPE SHALL BE AT LEAST 3" WIDE AND SHALL BE LABELED FOR THE SPECIFIC TYPE PIPE. TAPE SHALL BE 24" BELOW GRADE. TRACER WIRE SHALL BE INSTALLED ON NON-METALLIC SEWER PIPE AND SHALL MEET REQUIREMENTS OF SECTION 306.2.4. TRACE WIRE SHALL BE MINIMUM 14 AWG AND RATED FOR DIRECT BURIAL.

FIXTURE CONNECTION SCHEDULE

		_				
ABBR	FIXTURE	WASTE	VENT	C.W.	H.W.	REMARKS
WC	WATER CLOSET	4"	2"	1"	-	FLUSH VALVE, FLOOR MOUNT
URN	URINAL	2"	2"	1"	-	MOUNT RIM @ 20" AFF, 14" FOR H/C
LAV	WALL HUNG LAVATORY	2"	1 1/2"	1/2"	1/2"	STUDENT TOILETS
KS	2-COMP. STAINLESS STEEL SINK	2"	1 1/2"	1/2"	1/2"	FREE STANDING
DF	DRINKING FOUNTAIN	2"	1 1/2"	3/8"	-	SEE ARCH'T DWGS FOR MOUNTING HTS.
MS	MOP SINK RECEPTOR	2"	1 1/2"	1/2"	1/2"	SEE ARCH'T DWGS FOR DETAILS
SH	BUILT-IN SHOWER	2"	1 1/2"	1/2"	1/2"	SEE ARCH'T DWGS FOR DETAILS
WH	WASHING MACHINE BOX	2"	1 1/2"	1/2"	1/2"	VERIFY MOUNTING HT WITH MFR
НВ	HOSE BIBB	_	_	3/4"	_	PROVIDE VACUUM BREAKER
AFH	ANTI-FREEZE HYDRANT	_	_	3/4"	_	PROVIDE VACUUM BREAKER

GENERAL NOTES:
(1) NOT ALL FIXTURES WILL BE USED ON THIS PROJECT.

				SCHEDULE	<u> </u>				
TAG	SERVICE	CAP	BTU'S	TEMP	RCVY	MFR / MODEL no.	PUMP	GAS TYPE	NOTES
GWH-1	FIELD HOUSE	_	199,000	110	660	RINNAI No. CU199e	RP-1	NATURAL GAS	1,2
GWH-2	FIELD HOUSE	_	199,000	110	660	RINNAI No. CU199e	RP-1	NATURAL GAS	1,2
GWH-3	FIELD HOUSE	_	199,000	110	660	RINNAI No. CU199e	RP-1	NATURAL GAS	1,2
GWH-4	FIELD HOUSE	_	199,000	110	660	RINNAI No. CU199e	RP-1	NATURAL GAS	1,2
GWH-5	FIELD HOUSE	_	199,000	140	RINNAI No. CU199e	RP-2	NATURAL GAS	1,2	
				•					

- 1) STATE INDUSTRIES OR LOCHNIVAR MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
- 2) T&P VALVE PROVIDED SEPARATELY BY PLUMBING CONTRACTOR.

CAP = STORAGE CAPACITY (gal) TEMP = HW OUTPUT TEMPERATURE (deg F) RCVY = RECOVERY © 100 deg F RISE (gph)

	PUMP SCHEDULE														
TA	TAG SERVICE GPM HEAD WATTS RPM ELECT FLA CONTROL MFR/MODEL NOTE														
RP	-1 EWH REF. TO SCHEDULE	5	3.5	39	2800	115V/1PH	0.39	EMS	BELL & GOSSETT NBF-8S/LW	1-2					
RP.	-2 EWH REF. TO SCHEDULE	5	3.5	39	2800	115V/1PH	0.39	EMS	BELL & GOSSETT NBF-8S/LW	1-2					

NOTES: (1) ALL PUMPS SPECIFIED ARE BELL & GOSSET. EQUAL BY TACO (2) PROVIDE FOR EWH AS REQUIRED BY SCHEDULE

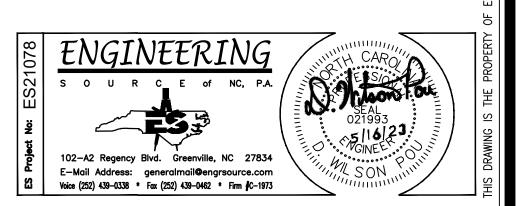
HEAD= FRICTION LOSS (ft) FLA = PUMP MOTOR FULL LOAD AMPS GPM = FLOW RATE

	OCCUPAN	ΓLOAD	- NCSBC	1004.4										
	FIXED BLE	ACHER	SEATIN	G - 1 PE	RSON/1	8" = 2,240								
HOME	FIXTURES	CALCUL	ATIONS	S - 50% I	MALE (1,	,120) / 50% FEM	1ALE (1,120) PER NC	SPC 403.	1.1				
	FIXTURES	REQUIR	RED - NO	SPC TA	BLE 403	3.1								
STADIUM -		WATER		LAVAT	ORIES	URINALS 403.8.5.3	FOU	NKING NTAINS 10	SERVI SINKS					
S		MALE	FEMALE	MALE	FEMALE		REGULAR	ACCESSIBLE						
	REQUIRED	3	12	5	6	6	2	2	-					
	PROVIDED 3 12 5 8 6 2 2 -													
	OCCUPANT	ΓLOAD	- NCSBC	C 1004.4										
~	FIXED BLE	ACHER	SEATIN	G - 1 PE	RSON/1	8" = 1,725								
잂	FIXTURES	CALCUL	ATIONS	S - 50% I	MALE (8	63) / 50% FEMA	LE (863) P	ER NCSPC	403.1.1					
- VISIT	FIXTURES REQUIRED - NCSPC TABLE 403.1													
STADIUM - V		WATER		LAVAT	ORIES	URINALS 403.8.5.3	FOU	NKING NTAINS 10	SERVI SINKS	_				
STA		MALE	FEMALE	MALE	FEMALE		REGULAR	ACCESSIBLE						
0,	REQUIRED	2	9	4	5	5	1	1	-					
	PROVIDED	2	9	4	5	5	1	1	-					
OFFICIALS		WATER	-	LAVAT	ORIES	URINALS 403.8.5.3	FOU	NKING NTAINS 10	SHO	OWERS				
H.		MALE	FEMALE	MALE	FEMALE		REGULAR	ACCESSIBLE	MALE	FEMAL				
0	REQUIRED	0	0	0	0	0	N/A	N/A	0	0				
	PROVIDED	2	0	2	0	0	N/A	N/A	2	0				

LABEL	PART	MFR	MODEL	DESCRIPTION
	BOWL	KOHLER	No. K-96057	"HIGHCLIFF ULTRA" WATER-GUARD ELONGATED TOILET w/ 1.6 GALLON FLUSH, 12" ROUGH-IN, SIPHON JET
WC	TOP SPUD	KOHLER		1-1/2" TOP SPUD, PROVIDE MANUFACTURER'S BOLT CAP KIT.
ADA CCESSIBLE	SEAT	KOHLER	No. K-4670-CA	OPEN FRONT SEAT w/ SELF SUSTAINING CHECK HINGE.
ADULT	FLUSH VALVE	SLOAN	No. 111	"ROYAL" WITH HANDLE ON OPEN SIDE OF STALL.
	CAST IRON FLANGE	JONES STEPHENS	No. C47-460	4" x 6" CAST IRON CLOSET FLANGE
UR	URINAL	KOHLER	No. K-5016-T	WATER-GUARD w/ SIPHON JET ACTION f " TOP SPUD INLET, 2" IPS OUTLET. MEETS ADA & VOLUME I-C REQUIEMENTS.
ADA	WALL CARRIER	SMITH	No. 637	MOUNT URN PER ADA REQUIREMENTS FOR H/C ACCESSIBILITY
ACCESSIBLE	FLUSH VALVE	SLOAN	No. 186-1-YB	ROYAL 186-1-YB, MAXIMUM HANDLE HEIGHT PER. ARCHITECTURAL DETAIL
	l <u></u> .	l		WALL HUNG LAVATORY ENAMELED CAST IRON (20"x18") w/ INTEGRAL BACKSPLASH
	LAVATORY	KOHLER	No. K-2867	"HUDSON" SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT TYP. STUDENT GANG TOILET
LAV	WALL CARRIER	SMITH	No. 800	LAVATORY
ADA ACCESSIBLE	FAUCET	DELTA	No. 86T1053	(0.5gpm) TWO—HANDLE METERING
NOLJJIDLE	SUPPLY	McGUIRE	No. H170LK	" CAST BRASS SWEAT w/ LOOSE KEY STOPS
	P-TRAP	McGUIRE	No. PW2150	PROWRAP TRAP w/ INCLUDED PWV8902, 1" ADJ. CHROME POLISHED CAST BRASS TRAP w/ INTEGRAL CLEANOUT
	STRAINER	McGUIRE	No. 155A	METAL GRID STRAINER
	SINK	JUST MFG.	No. NSFB-230	2 COMPARTMENT, 14ga. FREE-STANDING STAINLESS STEEL SINK.
KS	FAUCET	T&S BRASS	No. B-0231	LEVER HANDLES AND 12" LONG SWING NOZZLE
ADA ACCESSIBLE	STRAINER	McGUIRE	No. 151A	STRAINER w/ STAINLESS STEEL TAIL PIECE
	P-TRAP	KOHLER	K-9000	1" ADJ. CAST BRASS CHROME PLATED w/ INTEGRAL CLEANOUT
	1 11971	- NOTICE!		S.
DF ADA ACCESSIBLE	DRINKING FOUNTAIN	ELKAY	No. EDFP217C	BI-LEVEL, BARRIER-FREE, NON-REFRIGERATED, STAINLESS STEEL DRINKING FOUNTAIN W/ WALL MOUNTED BRACKET, 17 GA P-TRAP W/ CO PLUG, & ACCESSIBLE SHUT-OFF VALVE. FINISH SELECTED BY ARCHITECT. E.C. 5 YEAR WARRANTY. ADA COMPLIANT, OR EQUAL BY OASIS.
	SINK	FIAT	No. TSB3002	36"W X 36"L X 12"D PRECAST TERRAZZO MOP SERVICE BASIN
MS ADA	FAUCET	EL MUSTEE	No. 63.600A	HEAVY DUTY DUAL HANDLE SINK FAUCET WITH REINFORCING BAR & PAIL HOOK ON SPOUT. VACUUM BREAKER; CHROME PLATED HOT & COLD HANDLES.
ACCESSIBLE	STRAINER	McGUIRE	No. 151A	STRAINER W/ STAINLESS STEEL TAIL PIECE
	P-TRAP	KOHLER	K-9000	1" ADJ. CAST BRASS CHROME PLATED w/ INTEGRAL CLEANOUT
	SHOWED	Ι	<u> </u>	ADA COMPLIANT THE SHOWER
SH ADA	SHOWER DRAIN	SMITH	No. 2005-B	ADA COMPLIANT TILE SHOWER NICKEL BRONZE PLATED 6" STRAINER IN SQUARE METAL BASE
ACCESSIBLE	HAND SHOWER	SYMMONS	No. 96-500-B30-L-V	PRESSURE BALANCING WITH ADJUSTABLE AND STATIONARY SHOWER HEAD
	I I I I I I I I I I I I I I I I I I I	1	1 22 22 23 4 1	
FD	FLOOR DRAIN	SMITH	No. 2005-B	NICKEL BRONZE PLATED 6" STRAINER IN SQUARE METAL BASE
FD FS	FLOOR DRAIN FLOOR SINK	SMITH	No. 2005-B No. 3100-12	NICKEL BRONZE PLATED 6" STRAINER IN SQUARE METAL BASE "SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER.
	<u> </u>		100 200 2	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR
FS	FLOOR SINK FLOOR CLEANOUT	SMITH	No. 3100-12	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER. CAST IRON CLEANOUT w/ ADJUSTABLE HOUSING & NICKLE BRONZE TOP.
FS	FLOOR SINK	SMITH	No. 3100-12	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER.
FS CO	FLOOR SINK FLOOR CLEANOUT WALL CLEAN	SMITH	No. 3100–12	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER. CAST IRON CLEANOUT w/ ADJUSTABLE HOUSING & NICKLE BRONZE TOP. CAST IRON CLEANOUT TEE WITH SPIGOT INLET / OUTLET AND THREADED BRASS
FS CO	FLOOR SINK FLOOR CLEANOUT WALL CLEAN OUT	SMITH WADE	No. 3100-12 No. 6003 No. 8564-E No. 8480R6	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER. CAST IRON CLEANOUT w/ ADJUSTABLE HOUSING & NICKLE BRONZE TOP. CAST IRON CLEANOUT TEE WITH SPIGOT INLET / OUTLET AND THREADED BRASS COUNTERSUNK PLUG w/," TAP
FS CO WCO	FLOOR SINK FLOOR CLEANOUT WALL CLEAN OUT ACCESS COVER WASH UTILITY	SMITH WADE WADE WADE	No. 3100-12 No. 6003 No. 8564-E No. 8480R6	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER. CAST IRON CLEANOUT w/ ADJUSTABLE HOUSING & NICKLE BRONZE TOP. CAST IRON CLEANOUT TEE WITH SPIGOT INLET / OUTLET AND THREADED BRASS COUNTERSUNK PLUG w/," TAP ROUND STAINLESS STEEL ACCESS COVER WITH ," - 20 x 3" CENTER SCREW
FS CO WCO	FLOOR SINK FLOOR CLEANOUT WALL CLEAN OUT ACCESS COVER WASH UTILITY BOX	SMITH WADE WADE WADE PROSET	No. 3100-12 No. 6003 No. 8564-E No. 8480R6 No. PS/PV 120-08	"SANI-CEPTOR" 8.5"Wx8.5"D w/ HALF-GRATE FOR INDIRECT WASTE DRAIN RECEPTOR OR EQUAL BY KOHLER. CAST IRON CLEANOUT w/ ADJUSTABLE HOUSING & NICKLE BRONZE TOP. CAST IRON CLEANOUT TEE WITH SPIGOT INLET / OUTLET AND THREADED BRASS COUNTERSUNK PLUG w/ " TAP ROUND STAINLESS STEEL ACCESS COVER WITH ." - 20 x 3" CENTER SCREW ASTM E-814-2Hrs. (F) HI-TEMPERATURE, FIRE RATED UTILITY BOX

P	LUMBIN	G FIX	XTUR	ES -	LOCI	KER							
	OCCUPAN	ΓLOAD	- NCSBO	2 1004.1									
щ	1,040/50 = 2	21											
MAL	FIXTURES	REQUIR	RED - NO	SPC TA	BLE 403	3.1							
LOCKER - I		WATER	=	LAVATORIES		URINALS 403.8.5.3	SHOWERS		DRIN FOUN 410	SERVICE SINKS			
2		MALE	FEMALE	MALE	FEMALE		MALE	FEMALE	REGULAR	ACCESSIBLE			
	REQUIRED	1	N/A	1	N/A	0	0	N/A	N/A	N/A	0		
	PROVIDED	2	N/A	3	N/A	2	2	N/A	N/A	N/A	0		
ш	OCCUPANT LOAD - NCSBC 1004.4												
FEMALE	1,040/50 = 21												
	FIXTURES REQUIRED - NCSPC TABLE 403.1												
OCKER-		WATER CLOSETS		LAVATORIES		URINALS 403.8.5.3	SHOV	VERS	DRINKING FOUNTAINS 410		SERVICE SINKS		
2		MALE	FEMALE	MALE	FEMALE		MALE	FEMALE	REGULAR	ACCESSIBLE			
	REQUIRED	N/A	1	N/A	1	N/A	N/A	0	N/A	N/A	0		
	PROVIDED	NI/A											
	INOVIDED	N/A	4	N/A	3	N/A	N/A	2	N/A	N/A	1		
AFF	TROVIDED	WATER CLOSE	 ⋜	-	3 ORIES	N/A URINALS 403.8.5.3		2 VERS	DRI FOU	,	•		
STAFF	TROVIDED	WATER	 ⋜	LAVAT		URINALS	SHOV	VERS	DRI FOU	NKING NTAINS 10	SERVICE		
STAFF	REQUIRED	WATER	R ETS	LAVAT	ORIES	URINALS	SHOV	VERS	DRI FOU 4	NKING NTAINS 10	SERVICE		

FIXTURE UNIT	T REQUIREMENTS
POTABLE WATER SUPPLY	154.3 GPM USE 3" SERVICE
WASTE	326.0 FU USE 6" SERVICE
WASTE	326.0 FU USE 6" SERVICE



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GENERAL NOTE: Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

#\ Description Date ADDEN #1 05/16/23

4-24-2 DWP

> PLUMBING NOTES & SCHEDULES

2. SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.

3. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED AIR TIGHT.

4. CONTRACTOR SHALL FIELD MEASURE ACTUAL INSTALLED CONDITIONS AND COORDINATE DUCT SIZES PRIOR TO FABRICATION OR INSTALLATION OF EQUIP. & DUCTWORK.

5. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.

6. CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE.

7. LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" A.F.F. (CENTER OF BOX FOR GYP BRD, TOP OF BOX FOR MASONRY) IN LOCATION INDICATED ON PLANS.

8. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.

9. CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.

10. FABRICATE AND INSTALL ALL DUCT WORK PER SMACNA 1.5" W.C. PRESSURE. ALL ELBOWS SHALL HAVE 1.5R CENTERLINE. ALL DUCT UNDER SLAB SHALL BE FIBERGLASS.

11. ALL FLEXIBLE ROUND DUCT SHALL BE PRE-INSULATED DOUBLE WALLED WITH SPIRAL METAL RIB, AND SHALL HAVE MIN. RESISTANCE VALUE OF R-6. MAXIMUM LENGTH SHALL BE 10'-0" UNLESS SHOWN SPECIFICALLY OTHERWISE IN PLAN. SECURE ENDS WITH NYLON BANDS AND TAPE.

12. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH A MINIMUM OF 2-3/16" 3/4 LB. OR 2" OF 1.0 LB. DENSITY FIBERGLASS WRAP. INSULATED DOUBLE WALLED SPIRAL DUCT SHALL HAVE A MINIMUM INSULATION THICKNESS OF 2" OF 1.5 LB. DENSITY. PIPING INSULATION (REFRIGERANT OR WATER) SHALL BE A MINIMUM OF 1-1/2" THICK OR PER LATEST NC ENERGY CODE, WHICHEVER IS GREATER.

13. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALUMINUM JACKET PROTECTIVE COVERING FOR ALL REFRIGERANT PIPE INSULATION INSTALLED ON THE BUILDING EXTERIOR.

14. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN CONNECTIONS TO HVAC UNITS.

15. PROVIDE AUXILIARY CONDENSATE DRAIN PAN FOR ALL AIR HANDLING UNITS, FAN COIL UNITS, FURNACE WITH COOLING COIL, ETC. CONTRACTOR SHALL PROVIDE AND INSTALL WATER LEVEL FLOAT SWITCH IN AUXILIARY DRAIN PAN. FLOAT SWITCH SHALL SHUT DOWN INDOOR AND ASSOCIATED OUTDOOR UNIT WHEN ACTIVATED. DRAIN PAN OUTLET SHALL BE PIPED TO BUILDING EXTERIOR.

16. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC OR HARD DRAWN COPPER. INSTALL WITH PROPER SLOPE AND NO SAGS. COPPER PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION. SCHEDULE 40 PVC PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION.

17. ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS, AREAS WITH EXPOSED STRUCTURE (NO CEILINGS), AND WHERE NOTED OTHERWISE.

18. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COOR'D. FEEDER AND FUSE SIZES FOR SPECIFIC EQUIPMENT PROVIDED WITH ELECTRICIAN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK AND EQUIPMENT REQUIRED TO PROVIDE FEEDERS FOR EQUIPMENT THAT EXCEEDS THE AMP RATINGS LISTED IN THE SCHEDULE.

19. ALL GAS PIPE AS SHOWN (INTERIOR OR EXTERIOR) SHALL BE SCHEDULE 40 BLACK STEEL PAINTED OSHA YELLOW OR YELLOW FLEXIBLE STAINLESS STEEL. ALL GAS PIPING SHALL BE LABELED WITH THE TYPE OF GAS AND THE SUPPLY PRESSURE. CONTRACTOR SHALL INSTALL GAS PIPE PER INSTALLATION STANDARD MSS SP-58. M.C. SHALL PROVIDE MAPA PRODUCTS PIPE SUPPORTS WITH E-6000 ADHESIVE. CONTRACTOR IS RESPONSIBLE FOR ALL GAS PIPING FROM GAS COMPANY METER, GAS COMPANY REGULATOR, OR REMOTE GAS TANK TO ALL SECOND STAGE REGULATORS AND ALL GAS FIRED EQUIPMENT.

20. MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COOR'D ROUND DUCT SIZES W/ ENGR. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.

21. MECHANICAL CONTRACTOR SHALL PROVIDE ENGR. WITH AN AIR BALANCE REPORT INDICATING INITIAL AND FINAL READINGS AT EACH DIFFUSER AND TOTAL CFM PER UNIT, INCLUDE IN DOCUMENTS PROVIDED TO OWNER AT JOB CLOSEOUT.

22. MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF EQUIPMENT.

23. CONVENTIONAL FURNACES SHALL HAVE TYPE B VENTS, CONDENSING TYPE SHALL HAVE PVC VENTS.

24. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL CO & NO SENSOR FOR ALL GAS FIRED EQUIPMENT.

25. UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER—RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.

26. MECHANICAL CONTRACTOR SHALL CHANGE UNIT FILTERS AFTER EACH TWO WEEKS OF RUN TIME, AND SHALL LEAVE ONE CHANGE OF FILTERS FOR OWNER TO USE FOR NEXT FILTER CHANGE.

27. MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.

28. MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WHERE INDICATED ON PLANS. COORDINATE WITH E.C. IF DUCT DETECTOR IS PROVIDED AS PART OF BUILDING FIRE ALARM SYSTEM. IF NOT, PROVIDE DETECTOR & ASSOCIATED HORN/STROBE ALARM (HONEYWELL RTS2-AOS MULTI-SIGNALING) AS REQUIRED BY N.C. MECHANICAL CODE SECTION 606.4.1. M.C. IS RESPONSIBLE FOR DUCT ACCESS DOORS UNDER ALL CIRCUMSTANCES.

SAMPLING HOLES FACING DIRECTION OF AIR FLOW -SAMPLING TUBE SHALL EXTEND FULL WIDTH OF DUCT & BE SUPPORTED ON BOTH SIDES DUCT MOUNTED SMOKE DETECTOR. LOCATE AS INDICATED ON PLANS. - RETURN DUCT ACCESS PANEL W/ AIR FLOW HINGE & SINGLE CLASP (MIN. 12"x12") SEAL ALL INSULATION OR LINING PENETRATIONS PER SPECIFICATIONS

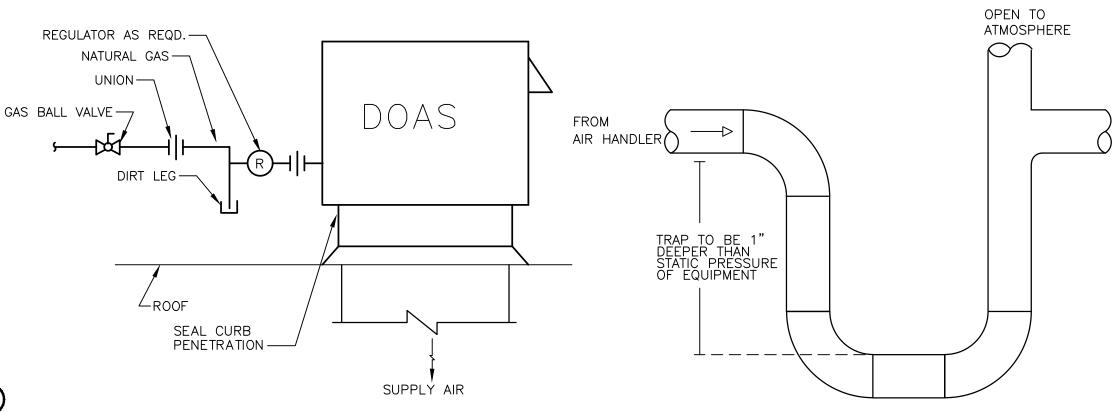
DUCT MOUNTED SMOKE DETECTOR DETAIL

* PROVIDE COPPER TUBING TO VENT REGULATOR AS REQUIRED

1. BACKDRAFT DAMPER.

2. UNIT MOUNTED DISCONNECT SWITCH.

3. ROUTE EXHAUST DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP. 4. PROVIDE WITH BACKDRAFT DAMPER, FAN GUARD AND DISCHARGE HOOD.



DOAS MOUNTING DETAIL CONDENSATE TRAP DETAIL

MECHANICAL 🔿 CONTRACTOR - WIRING BY ELECTRICAL CONTRACTOR - FINAL CONNECTIONS INSIDE EQUIPMENT TO BE MADE BY MECHANICAL CONTRACTOR. - EQUIPMENT BY MECHANICAL CONTRACTOR. SEE MECHANICAL AND ARCHITECTURAL PLANS FOR LOCATION OF ALL EQUIPMENT. MECHANICAL EQUIPMENT **ELECTRICAL CONNECTION DETAIL** TO ROOF DRAIN, DRY WELL, OR SCALE: N.T.S. FLOOR DRAIN

UNIT HEATER SCHEDULE														
MARK	INPUT	OUTPUT	FUEL		OTOR HP	AMP DRAW	ENTERING CFM	OUTLET VELOCITY (FPM)						
UH-1	75 MBH	60 MBH	NATURAL GAS	 	1/30	2.3	1130	664						
1 MOUNT AT 8'-6" MAY AFE PROVIDE MOUNTING BRACKET AS REQUIRED														

1. MOUNT AT 8'-6" MAX. AFF. PROVIDE MOUNTING BRACKET AS REQUIRED.

BRANCH CIRCUIT AND CONDUIT -

BY ELECTRICAL CONTRACTOR. SEE PANELBOARD SCHEDULES

TO HVAC EQUIPMENT. HVAC

CONTRACTOR SHALL BE

ANY WIRE AND BREAKER

ELECTRICAL CONTRACTOR.

SIZE CHANGES WITH

FOR WIRE AND BREAKER SIZES

RESPONSIBLE FOR COORDINATING

EXTERNALLY OR INTERNALLY ---MOUNTED DISCONNECT SWITCH

MECHANICAL CONTRACTOR SHALL

PROVIDE FUSES, AS REQUIRED.

EXTERNALLY MOUNTED STARTER ———

LINE AND LOAD SIDE CONNECTIONS

CONTROLS CONNECTIONS BY OTHERS. *

EQUIPMENT BY_

FURNISHED BY MECHANICAL

CONTRACTOR AND INSTALLED

BY ELECTRICAL CONTRACTOR

BY ELECTRICAL CONTRACTOR.

FURNISHED BY MECHANICAL

CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

	FAN SCHEDULE													
SYMBOL	AREA SERVED	MANUF./MODEL	SERVICE	TYPE ASSEMBLY	CFM	SP (IN. W.G.)	DRIVE TYPE	WATTS	VOLT/PH	REMARKS				
EF-A	LAUNDRY	GREENHECK/SP-A110	EXHAUST	CABINET	100	.125	DIRECT	49	120/1	1,2,3				
EF-B	TOILET	GREENHECK/SP-A190	EXHAUST	CABINET	150	.125	DIRECT	113	120/1	1,2,3				
EF-C	CONCESSION/TEAM	GREENHECK/SP-A290	EXHAUST	CABINET	300	.125	DIRECT	80.7	120/1	1,2,3				
EF-D	TOILET	GREENHECK/SP-A510	EXHAUST	CABINET	550	.125	DIRECT	224	120/1	1,2,4				
EF-E	TOILET	GREENHECK/SP-A710	EXHAUST	CABINET	650	.125	DIRECT	285	120/1	1,2,3				
EF-F	LOCKER ROOM	GREENHECK/SP-A1050	EXHAUST	CABINET	1000	.125	DIRECT	420	120/1	1,2,3				

					ROAN ARE AC														
						DOAS UNIT SCHEDULE													
	FAN											ENTERING AIR TEMP.		HEATING OUTPUT			WEIGHT	NOTES	
					MARK	CFM	O.A. MAX.	E.S.P.	H.P.	POWER	CAPACITY	CAPACITY	DB/WB	BTUH	BTUH	MCA	моср		NOTES
EATING	L STACES				DOAS-1	2,400	100%	1.0"	3.0	480/3	186.0 MBH	98.6 MBH	93.0/76.0	245,838	196,670	30.2	35	2,524 LBS	1
MIN MBH OUTPUT	STAGES OF HEAT	AFUE	REMARI		DOAS-2	2,400	100%	1.0"	3.0	480/3	186.0 MBH	98.6 MBH	93.0/76.0	245,838	196,670	30.2	35	2,524 LBS	1
72.9	2	81%	1,2,3,4,		DOAS-3	2 000	100%	1 0"	3.0	480/3	154 0 MBH	8.3.7 MBH	93.0/76.0	204 864	163 891	29.7	30	2 363 LBS	1

144.0 MBH | 79.9 MBH | 93.0/76.0

184,378

147,502 | 27.7 | 30 |1,902 LBS

							G <i>A</i>	AS PACK SCHED	ULE			<u> </u>	7				
			SUPPLY FAN MODEL NO. COOLING				F	IEATING									
MARK	O.A.	CFM	EXT SP.	MOTOR HP	VOLT/PH	MCA	МОСР	MANUF/MODEL	NOMINAL TC(MBH)	NOMINAL SHC(MBH)	EER (FUEL	MAX MBH INPUT	MIN MBH OUTPUT	STAGES OF HEAT	AFUE	REMARKS
GP-1	300	1,600	0.75	1.0	208/1	32.0	50	TRANE/4YCC4048A1	48.0	33.6	11.5	NATURAL GAS	90.0	72.9	2	81%	1,2,3,4,5
SP-2	175	800	0.75	1/2	208/1	19.5	30	TRANE/4YCC4048A1	24.0	16.8	12.0	NATURAL GAS	60.0	48.6	2	81%	1,2,3,4,5

PROVIDE WITH COIL GUARD OPTION & "LOW-AMBIENT" KIT.

ANY WIRING SHALL BE DONE BY A LICENSED ELECTRICAL SUB-CONTRACTOR.

PROVIDE WITH CONTROL TRANS. AS REQUIRED. PROVIDE WITH PROG. T'STAT WITH 2 HOUR OVER-RIDE.

M.C. SHALL PROVIDE MOTORIZED DAMPER ON OUTSIDE AIR DUCT. DAMPER CONTROLLED BY PROGRAMMABLE CONTROL SYSTEM. (C403.2.4.3 NCEC 2018). PROVIDE UNIT WITH POWERED CONVENIENCE OUTLET (120V).

SPECIFICATIONS BASED UPON "TRANE", EQUALS BY "CARRIÉR" AND "ICP" ARE ACCEPTABLE.

NOTES:

DOAS-4 | 1,800 | 100% |

1. PROVIDE WITH MODULATING GAS HEAT, HOT GAS REHEAT, AND ROOF CURB AS REQUIRED. 2. SPECIFICATIONS BASED UPON "PARAGON", EQUALS BY "TRANE", "AAON", AND "GREENHECK" ARE ACCEPTABLE.

1.0" | 2.0 | 480/3

GAS	SIZING	CALCUL	ATIONS

* A COMBINATION STARTER MAY B

USED IN LIEU OF A SEPERATE

JUNCTION BOX MAY BE

FOR SOME EQUIPMENT.

SWITCH.)

WIRING BY

ELECTRICAL

CONTRACTOR

SHOWN ON ELECTRICAL PLANS

(NOT NECESSARY IF WIRING

STARTER OR DISCONNECT

IS CONNECTED DIRECTLY TO

ELECTRICAL

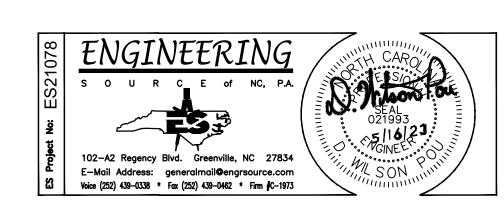
PANELBOARD

DISCONNECT SWITCH AND STARTER.

LENGTH OF GAS LINE - 150 FT						
тот	2,092					
UH-1	75	1	75			
IWH	199	5	995			
DOAS-4	185	1	185			
DOAS-3	205	1	205			
DOAS-1,2	246	2	492			
GP-2	60	1	60			
GP-1	80	1	80			
EQUIPMENT LIST	MBH	QUANTITY	TOTAL MBH			

LENGTH OF GAS LINE = 150 FT. GAS PRESSURE = 2 PSI SIZE OF GAS SERVICE REQUIRED = 1.25

NOTE: ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF GAS PIPE IF ANY ONE OF THE ABOVE CALCULATIONS DIFFER FROM THE ACTUAL INSTALLATION REQUIREMENTS. ENGINEER SHALL HAVE OPPORTUNITY TO REVIEW ACTUAL INSTALLATION CONDITIONS AND RE-SIZE GAS SERVICE IF REQUIRED.



GENERAL NOTE Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

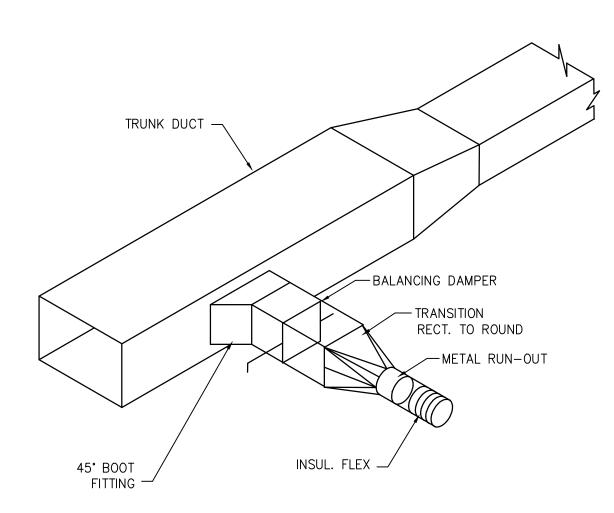
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Description Date ADDEN #1 05/16/23

21038 DEW

DWP

MECHANICAL NOTES. SCHEDULES, & DETAILS **VENTILATION IS SET TO PROVIDE BUILDING WITH POSITIVE PRESSURE.



LOW PRESSURE BRANCH CONNECTION SCALE: NTS

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE:

ENERGY COST BUDGET PRESCRIPTIVE 🛛

CLIMATE ZONE: IBC - 4A

THERMAL ZONE WINTER DRY BULB: 18.8°F SUMMER DRY BULB: 91.7°F

INTERIOR DESIGN CONDITIONS WINTER DRY BULB: 70°F

SUMMER DRY BULB: 75°F RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 519.4 MBH

BUILDING COOLING LOAD: 742.0 MBH MECHANICAL SPACE CONDITIONING SYSTEM

UNITARY ROOF TOP GAS PACK DESCRIPTION OF UNIT: HEATING EFFICIENCY: 81% AFUE COOLING EFFICIENCY: 12.0 EER

COOLING OUTPUT OF UNIT: SEE SCHEDULE TOTAL BOILER OUTPUT: (If oversized, state reason)

TOTAL CHILLER OUTPUT: (If oversized, state reason)

LIST EQUIPMENT EFFICIENCIES

HEAT OUTPUT OF UNIT:

EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems) MOTOR HORSEPOWER: NUMBER OF PHASES: MINIMUM EFFICIENCY:

SEE SCHEDULE

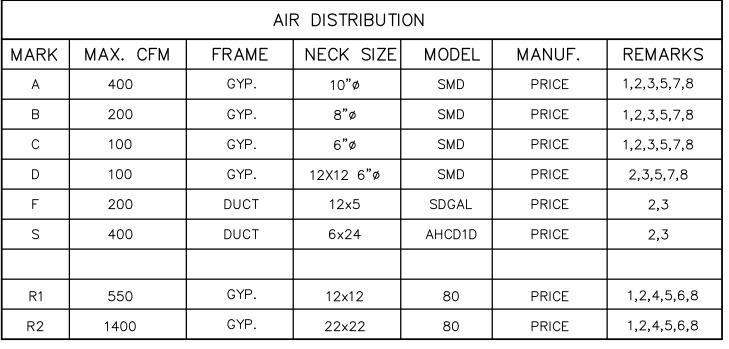
DESIGNER STATEMENT:

MOTOR TYPE:

OF POLES:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2018 North Carolina energy conservation code.

D. WILSON POU, P.E.



1. ALL T-BAR GRILLES SHALL HAVE 24"x24" FACE. 2. NC SHALL NOT EXCEED NC 25.

3. MAX. SP SUPPLY - 0.10" W.G. 4. MAX. SP RETURN - 0.05" W.G.

DOAS-1

6

O V

WOMEN

F-200

B-175

NOTE: ROOF MOUNTED HVAC UNITS ARE SHOWN IN

STRUCTURAL FRAMING PRIOR TO INSTALLATION.

14"ø ①

LOCKER 004

S-300

S-275

APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY EXACT

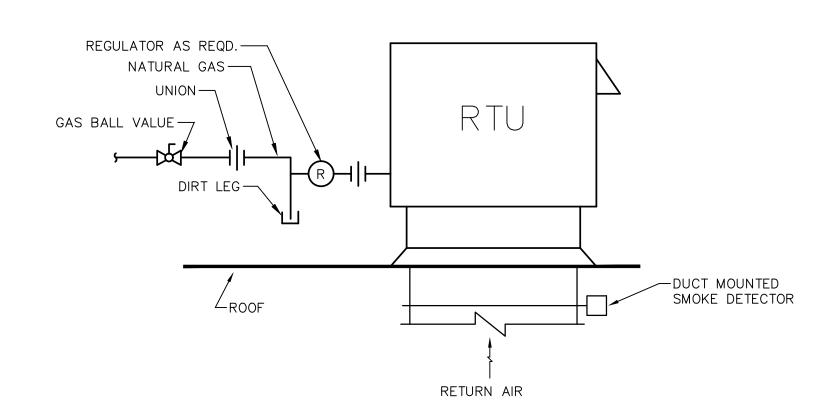
DIMENSIONS AND LOCATIONS OF SUPPLY AND RETURN OUTLETS ON UNITS AND FIELD COORDINATE EXACT UNIT LOCATION WITH

5. ALL RUN-OUTS AND FLEX TO BE EQUAL TO NECK SIZE FOR GRILLE.

6. PAINT INSIDE PAN FLAT BLACK. 7. CONTRACTOR SHALL INSULATE BACK OF SUPPLY GRILLE PAN.

8. PROVIDE ALL GYP. BOARD GRILLES WITH OPPOSED BLADE DAMPER.*

3/4"ø GAS LINE ON ROOF



~~~~~

TURN DOWN TO SECOND

STAGE REGULATOR OR —

1.25"ø GAS LINE ON ROOF

3/4"ø GAS LINE

ÓN ROOF

 $\sim\sim\sim\sim\sim$ 

SHALL COORDINATE EXACT

LOCATION OF NATURAL GAS METER WITH SERVICE DISCONNECT AND E.C.

LOCATED NOT LESS THAN 3' FROM SERVICE DISCONNECT AND ALL OTHER SPARK PRODUCING EQUIPMENT.

SECOND STAGE REGULATOR

AS REQUIRED. COORDINATE

REQUIREMENTS WITH GAS

COMPANY AND GAS FIRED

PROPOSED LOCATION OF
NATURAL GAS METER.
— COORDINATE EXACT LOCATION
AND REQUIREMENTS WITH GAS
COMPANY. 2,092 MBH AT 2 P.S.I.

EQUIPMENT.

TURN UP

TO ROOF

-NATURAL GAS METER SHALL BE

ON ROOF

A-250 (D)

STAIR

S-325

~ 24X12STORAGE

GAS PURE TURNED — DOWN FROM ROOF ABOVE.

16"ø ①

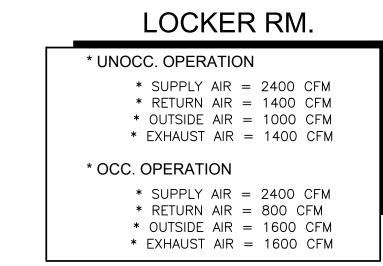
S-350

S-375

S-375

□GAS METER.

## RTU MOUNTING DETAIL



NOTE: MECHANICAL CONTRACTOR SHALL PROVIDE SECOND STAGE REGULATORS AS REQUIRED FOR

ALL GAS FIRED EQUIPMENT. COORDINATE

REQUIREMENTS WITH ALL GAS FIRED EQUIPMENT.

## MECHANICAL LEGEND

GEN. CONTR. E.C. ELEC. CONTR. PLUMB. CONTR. ABOVE FINISH FLOOR

ABOVE FINISH GRADE 18x16 } WRAPPED RIGID DUCT INSULATED FLEXIBLE DUCT 

SUPPLY DIFFUSER

RETURN AIR GRILLE CEILING EXHAUST GRILLE OR FAN

THERMOSTAT & UNIT SERVED. HUMIDISTAT & UNIT SERVED.

A-400 DIFFUSER TYPE-CFM MANUAL DAMPER DUCT MOUNTED SMOKE DETECTOR

SMOKE DETECTOR FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)

CEILING MOUNTED

CONN. TO EXIST. GAS PIPING SPRING LOADED FIRE DAMPER

CO2 SENSOR (800 PPM) & UNIT SERVED.

TWIST TIMER SWITCH 120V MOTORIZED DAMPER

CO & NO SENSOR & UNIT SERVED. CONSPEC CN50-CON02



**GROUND FLOOR** MECHANICAL PLAN SCALE: 1/8" = 1'-0"

🙍 / TOILET

FIRST FLOOR MECHANICAL PLAN

CORRIDOR

A-300

STORAGE 014

S-325

A-300

B-200

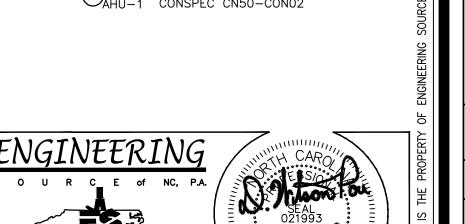
STORAGE

S-275

14"Ø①

S-275

16"ø ①



王

OR

800

**GENERAL NOTE:** Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Description Date ADDEN #1 05/16/23

21038 DEW DWP

MECHANICAL PLAN

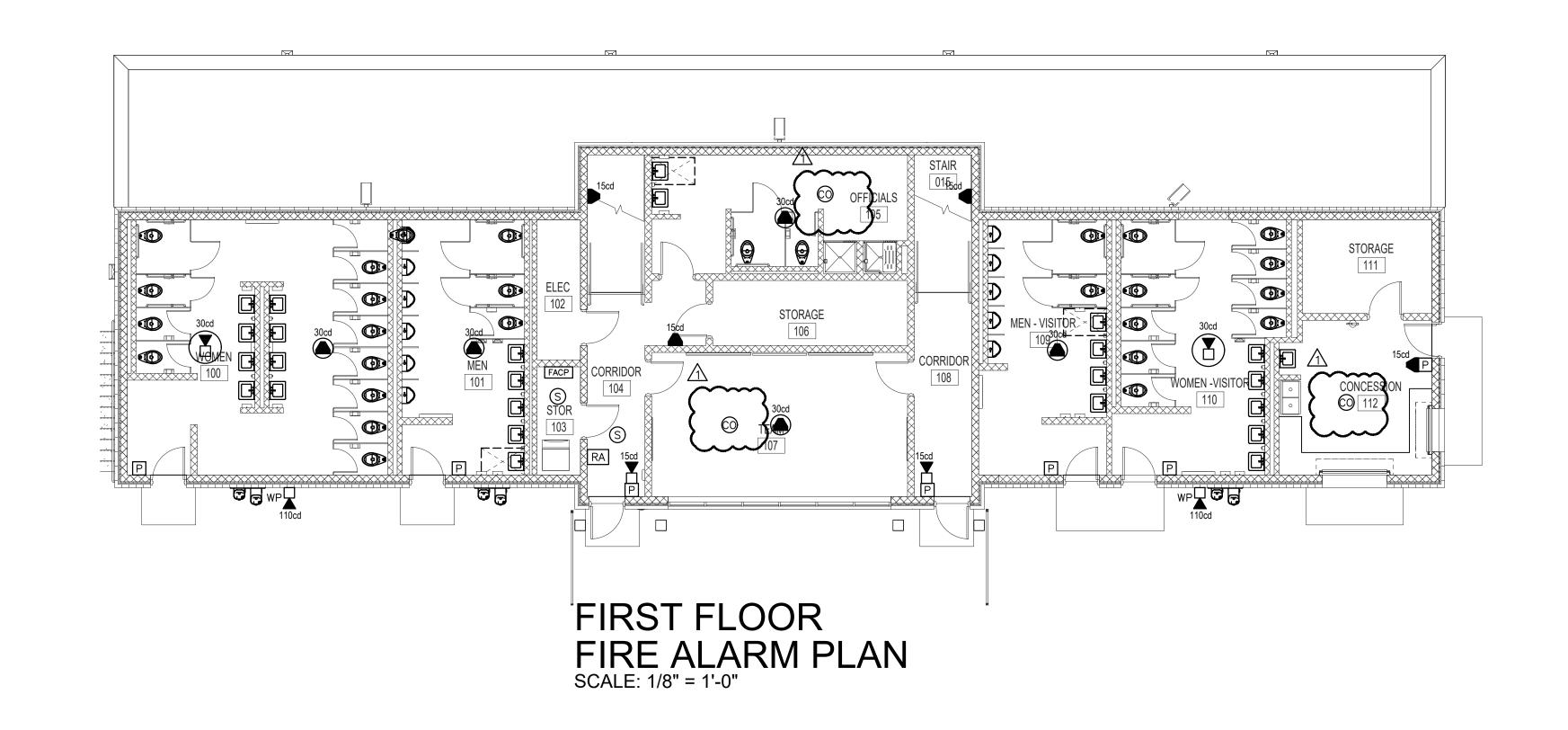
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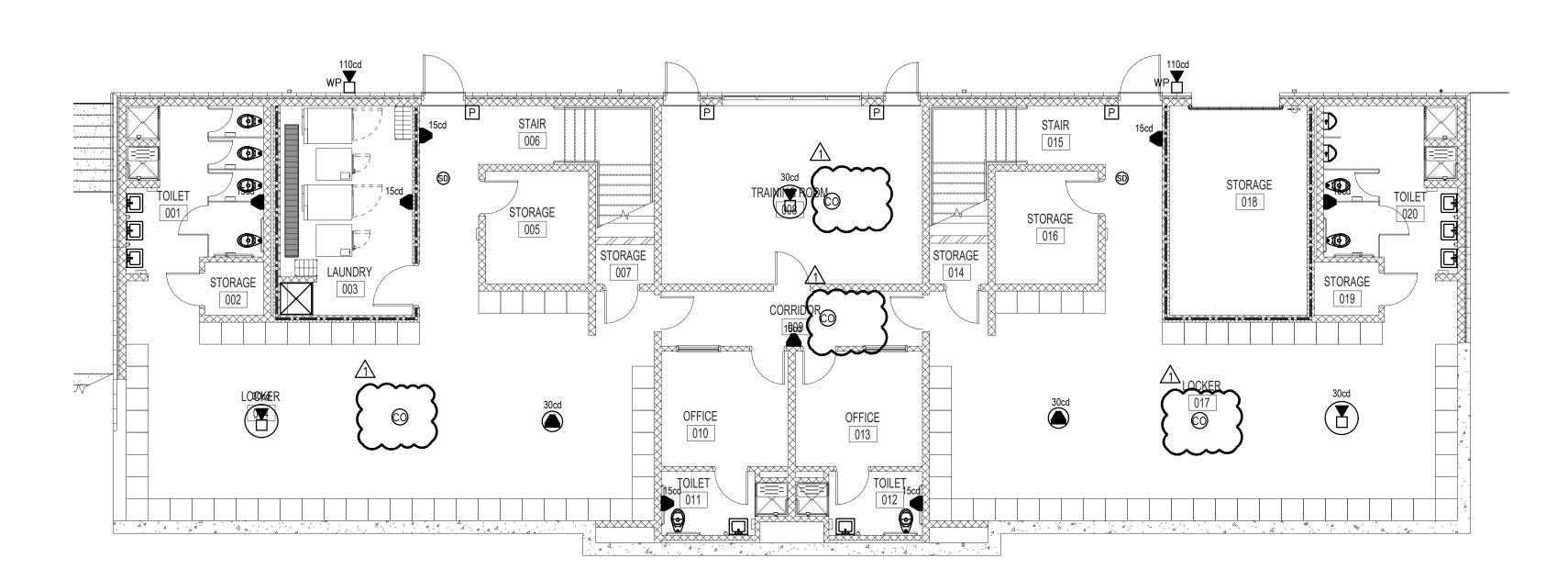
Project No. 21038

FA1.1

Sheet Title
FIRE ALARM PLAN

A / STATE OF THE SEAL OF THE S 102-A2 Regency Blvd. Greenville, NC 27834
E-Mail Address: generalmail@engrsource.com
Voice (252) 439-0338 \* Γαχ (252) 439-0462 \* Firm #C-1973





GROUND FLOOR FIRE ALARM PLAN SCALE: 1/8" = 1'-0"