ADDENDUM NO. 01 **DATE: March 23rd, 2026**

TO: ALL BIDDERS

FROM: The Walker Group Architecture, Inc.

RE: Jones County Public Works

The following corrections, clarifications, or supplemental information is to be incorporated into the Contractor(s) bid to perform the Work:

1. The bid day shall be extended to April 23rd, 2026, at 3:00pm in the boardroom at 110 Market St, Trenton NC
2. Please confirm the scales for drawings C4 & C5. *Response: C4 should be 1" = 30' and C5 should be 1" = 30'*
3. Note 2 on drawing C1 states to relocate electrical/communication utilities. Where is the new location? Is this the scope for the electrical sub or the local provided (by the owner). *Response: Relocation to be by utility company and coordinated by Owner.*
4. Note 7 drawing A102 states the owner will provide the ceiling fans. Please confirm. *Response: The owner will provide and install the ceiling fans.*
5. Is the alternate 2 concrete to be the same as note 3 on S101? *Response: Alternate 2 concrete to be the same as Note 4 on S-101.*
6. Are building permits required? If yes. Does GC pay from them? *Response: Yes a Building Permit is required. GC pays for building permits.*
7. Please confirm the height of the interior wall panels are to 8' AFF. *Response: Yes interior metal liner panels are 8'-0"H*
8. Do you have basis of design for the roof and wall panels?" *Response: Metal roof and wall panels are to be standard 26ga PEMB panels.*

9. Please confirm the warranties in section 133419 1.9 are correct. If you go with a screw down roof as the specified, the WTW warranty will not be available. *Response: Roof weathertightness warranty is not required.*

10. Confirm whether MC Cable can be used in stud walls and above acoustical ceilings (office side areas) provided home runs are in conduit. *Response: No MC cable is allowed on the project.*

11. Confirm if symbol $M must be a Siemens MMS/equal or if a standard commercial grade toggle can be used. For example, typical 20A commercial grade switch is rated for up to 1HP load @ 120V and 2HP load @ 240v. This would only apply to small 20A loads such as the Infrared Heaters and HVLS fans shown on plans. *Response: Yes, so long as the load does not exceed the switch rating.*

12. Confirm that overhead door provider will be responsible for door controls from motors to controller location and clarify whether or not EC should provide empty raceway to side *Response: The E.C. will provide the raceways and wiring for the controls. Drawings will be revised to reflect this.*

13. Clarify whether or not EC should provide a 30A cord drop with twist lock receptacle for connection to lift. Ref. Ckt B-16,18. *Response: No, the lift is future so please provide switch at roof purlins.*

14. No circuit from building is shown for the sewer lift station. Confirm that no power circuit is required under this contract. If it is, please confirm circuit sizes, lift station location and quantity or circuits as pump circuit and alarm circuit typically are separate from each other. *Response: Please reference revised drawings (Addendum No. 1) for circuits.*

15. Confirm that EC is responsible for CO/Gas detection system conduit and wiring to devices as shown on mechanical plans. If so, please confirm that #14 stranded conductors willbe acceptable and please show locations of No2 sensors and any other devices needing raceways. As it stands, there are only 4 CO detectors and the main gas panel shown on M-101. *Response: See Keynote #5 on Drawing E-101.*

16. The LP gas tank location is not shown, will the lp tank vendor be piping the underground gas to the bldg. and supplying the regulators. *Response: High pressure lp gas piping downstream of high-pressure regulator is by M.C.. Tank and high-pressure regulator is by others (LP Provider) as noted in keynote 7 on M-101. Coordinate location of tank with Site/Civil.*

17. No specific products listed in Drawings/Specs for Basis-of-Design on LVT or any of the Tile (TL-1, TL-2, TL-3). Can you please advise what we should include for materials to ensure everyone is apples to apples? Specs just give product requirements but does not give an exact product, which opens the door for someone to submit just about anything. Please provide more detailed product style/manufacturer information. Maybe even material allowances? Floor tile and wall tile to be colorbody porcelain. Basis of Design is Daltile ANCHORAGE. LVT Basis of Design is Shaw Contract, Style: UNVEIL

18. Referencing Tile Specifications (Section 093013 – 2.2C), it shows both Standard Cementitious Grout and Epoxy Grout. Please advise if any locations will receive Epoxy Grout. *Response: Epoxy Grout is not required.*

19. Referencing Tile Specifications (Section 093013 – 3.1E), it shows waterproofing to comply with ANSI A108.13. Please advise if all areas receiving tile or select areas will need waterproofing. Please identify areas that will receive said treatment if it's not all areas. *Response: No areas require waterproofing*

20. Referencing Tile Specifications (Section 093013 – 2.1B7), it shows Base as "None" and shows Wainscot Cap as "Surface Bullnose". Please confirm the intent here is to have T-1 Wall Tile (12"x24") to run 5'AFF (per Finish Legend) and to be capped/terminated with matching Bullnose Base. Also, please confirm that no wall base is desired and that Wall Tile will butt up to Floor. I'd suggest a Schluter Transition (similar to Schluter Dilex-AHK) between joint of Floor and Wall Tile if no Wall Base is desired. *Response: Use a bullnose for the wainscot cap and the Schluter Dilex-AHK for the floor wall joint.*

21. Will the typical endwall frame set back from steel line be 1'-2" or will our standard 1'-4" work? *Response: Standard 1'-4" is acceptable*

22. For the eave heights, finish floor to top of eave struts, do we need to scale the drawings at this time and qualify what we will be using? The heights shown on the drawings aren't to the top of eave strut, below is what the eave height scales too. Will these height work?

a. Shop - 18'-11 1/2"
b. Office - 12'-8 1/2" at the low side
c. Covered Shelters - 18'-11 1/2" at the low side *Response: These heights are acceptable.*

23. The drawings are showing the roof slope as 2:12 but the specs call for 4:12, which is correct. *Response: Roof slope is 2:12*

24. What do we need to use for the roof panels? The specs are calling for a 36" wide panel and the drawings are calling for a 26ga roof panel, but the specs are also calling for a weathertightness warranty which would require a 24ga Loc-Seam panel. Will this work? *Response: Response: Response: Metal roof and wall panels are to be standard 26ga PEMB panels.*

25. What do we need to use for the wall panels? The drawings are showing 26ga panels and the specs are calling for a concealed fastener V groove panel. Should we provide our 26ga A Panels. (V-rib)? These panels are not concealed fastener though. Or will these panels be by others? *Response: Response: Response: Metal roof and wall panels are to be standard 26ga PEMB panels.*

26. Will the interior liner panels be full height or up to 8'-0" AFF? Details A and B on A-303 show both. Please clarify which is correct. *Response: Liner Panels are to be 8'-0"H*

a. What interior liner panels do we need to use? 26ga R Panels (Standard Silicon Polyester colors)? *Response: 26 ga R panels are acceptable with standard color options.*

27. There are some columns on the Covered Shelters that are not in line with the main frame of the Shop building. We will shift these lean-to frames over to be in line with the Shop frames. *Response: No issues shifting covered shelter columns to align with main frame columns.*

28. How much will the hose reels weight? Do we need to assume that they are covered under the collateral load at this time? *Response: Estimate 100lbs for loads.*

29. Section C on A-303 is showing tube members for the framing for the Office Lean-To, can these be our standard I shaped columns and rafters? Please confirm. *Response: These members can be standard shapes.*

30. Will straight columns be ok on the lean-to frames for the Covered Shelters instead the tapered columns shown on the drawings? *Response: Straight columns will be acceptable.*

31. The other question I had I noticed on E-301 that the EC is responsible for the transformer pad and that the meter is shown mounted to the transformer and not as part of the building or with a CT cabinet, would that be free standing 3' or further from the utility supplied transformer ? Or is that going to be mounted on the building as I believe the EC would be responsible from the meter to the transfer switch when it comes to underground and utility is responsible from the vault to the transformer in terms of digging, conduit, and wires. *Response: The pad specifications will be per the serving utility's requirements. It is believed that Duke Energy is the utility service provider. The CT's and meter will be on the transformer. Drawing E-301 shows what conductors and raceways are required.*

32. Lastly is there any specs on the concrete pad that are required for either the transformer pad or the generator ? I didn't see any on the S201 section of the drawings. *Response: Please see revised drawing E-302 for generator pad. Transformer pad will meet serving utility requirements.*

33. Sheet A-301 Note 10 – Calls out the door and door frame to be storefront. But the details on A-602 shows curtain wall. Can you advise which to use? *Response: Aluminum Storefront to be used.*

34. The specs call for windows and doors to be hurricane impact – is this correct? *Response: Minimum requirement is DP-30 rating.*

35. On the divider wall, it shows gyp board on both sides, full height. What do you want above where the studs end? The pemb purlins will not support drywall. Can this be exposed insulation liner system as well? *Response: The insulation liner will be exposed above the lean-to roof.*

36. I don't see any fire extinguishers or fire ext. cabinets on the plans. Can you confirm quantities. *Response: For bidding purposes estimate (5) ABC wall mounted fire extinguishers.*

37. Any window treatments required? *Response: Window treatments will be by owner.*

38. Is the landscaping by owner? I don't see a landscaping plan. *Response: Landscaping will be by owner.*

39. Please clarify overhead door specification. Baked enamel or powder coated finish? Spec call for both. Chain hoist or motor operator. Specs calls for chain hoist. Drawings (A602 & Electrical) show motor operator. *Response: Overhead doors shall have Powder coat finish with electric operation.*

40. Framing: Spec 1.3.3 (page 126) calls for flush-framed girts, but the drawings are set up for bypass. *Response: Bypass girts are design intent.*

41. We were looking over the prints for the "Jones County Public Works" and saw the lighting schedule, panel schedule, generator specs which the transfer switch which is to be in the base bid and generator priced out separately, along with the low voltage requirements but did not see anywhere, or anyone that was listed as a vendor for those different items specifically. Are we permitted to meet the requirements and use our own suppliers for lighting packages (Lithonia), Hubbell devices, watt stopper OS and so on and do you have a color of device for this project (it said to confirm with the architect or owner ? I also didn't see a specific brand of generator you would prefer quoted as we don't mind quoting multiple brands. *Response: Given this a public bid project, there are no requirements for manufacturers of any items other than they meet the quality and requirements specified in the plans and specs.*

42. I also wanted to confirm EC is responsible for supplying raceways and confirming wiring for the "toxic gas control panel" but who would be providing the panel itself, and the CF-1 VFDs for the (GreenHeck - Fans, which are being supplied by the owner (per the drawings) however it doesn't mention the (VFD) only the fan. *Response: The toxic gas panel is provided by the M.C. and wired by E.C. E.C. is providing only the raceways per key note #3 on E-101*

43. Also who would be installing the equipment itself as well as mounting all of the door hardware (switch controls) outside the raceways mentioned ? *Response: The raceways for the shop would be installed behind the panels, however when they exit above the panels they will be required to be RGS. Also, if any raceways are installed exposed down columns they will be RGS.*

44. I also wanted to ask if you and the owners are ok with "rigid RMC" on the surface areas in the truck bay when below 15' and where susceptible to damage ? I see under (note 12) under raceways and boxes that states "all raceways shall be installed within walls, including block, unless noted otherwise." but the finished wall on "type A" is only 8' AFF before becoming exposed in the garage area, and didn't know if you wanted them physically cut into the panels or on the surface. *Response: The raceways for the shop would be installed behind the panels, however when they exit above the panels they will be required to be RGS. Also, if any raceways are installed exposed down columns they will be RGS.*

45. Lastly would the site crew be responsible for or able to assist in digging for conduits on the exterior of the facility since they would already be on site ? I would normally ask the footer and foundation crew for pricing on pouring the generator pad since that is part of the EC bid on this as well but wasn't sure if one has been established yet. *Response: This is a question for the general contractor.*

46. Also, what, if any, finish do you want on the shop floor? *Response: Shop floor shall receive water based concrete sealer.*

END OF ADDENDUM 01

Jones County Public Works Building

Pre-Bid Meeting Agenda
03.12.26

- Meeting Sign-in Sheet

- Date, Time, and Place of Bid Opening
  ~~March 26th at 3:00pm, at 110 S. Market St. Trenton NC~~
  April 23rd at 3:00pm, at 110 S. Market St. Trenton NC

  - Bids shall be in a sealed envelope per submittal procedures in Project Manual.
  - No bids will be accepted after bid time is called.

- 5% bid bond or a cashier's check must accompany the bid.
  Bid bond or cashiers check (ensured by FDIC) must be provided with bid.

- A Performance & Payment Bond is required for 100% of the contract price.

- Proposal to be a lump sum amount with separate prices for bid alternates 01 and 02, and unit prices.

  Alternate 01- Provide Site Fencing & Gate
  Alternate 02- Provide additional concrete under canopy in lieu of gravel
  Alternate 03- Provide HVAC system in the shop in lieu of infrared heaters
  Alternate 04 – Provide Generator

  Ensure separate prices are given for each Bid alternate in form of proposal.

  Unit Prices-
  -None

- Contractor's responsibility to visit project site and review contract documents before bidding project.

- Request for Information.
  All pre-bid RFI's must be submitted to admin@wgarc.com before 5:00pm on December 13th.

- List of contacts
  Chris Walker- Walker Group Architecture
  chris@wgarc.com - 252-636-8778

  Kyle Smith
  ksmith@jonescountync.gov

252-448-7571

admin@wgarc.com- Questions/RFI's prior to bid date

- Addenda
  Final addenda will be issued no later than ~~March 19th~~ April 15th at 5:00pm.
  - Ensure all addenda has been acknowledged in bid Form of proposal.

- Scope of work
  See drawing and specifications.

- Site conditions
  - Parking (on site)
  - Material storage requirements (on site)
  - Access to building/site (no restrictions)
  - Use of facilities (typical working hours)
  - Working on site (noise, safety requirements, hours etc.)

- Additional Owner Concerns
  No concerns at this time

- Additional Contractor Concerns
  See attached RFI's

- Schedule for completion
  The project is scheduled to be completed 365 days after notice to proceed.

- Liquidated damages
  Liquidated damages will be accessed at $250 per day beyond the contract completion date.

- Site walk throughs.
  The site is accessible for contractor walkthroughs. Contact Gareth Harrell (252-571-1625)

- Nothing stated at the conference will change the project documents unless a subsequent addendum is issued.

- Recap and questions

Pre-Bid Meeting Sign-In Sheet

Project Name/Location: Jones County Public Works Building
Meeting Date: March 12th, 2026

Attendee Name	Company	e-mail Address	Phone
Mathew Chappel	Farrior & Sons	matthew@farriorandsons.com	252-531-1866
Scot Thompson	Team Construction	sthompson@teamconstruction.com	910-320-8528
Bill Morgan	Berry Builders	bmorgan@berrybg.com	919-721-0931
Michael Odom	Waters Contracting	michaelo@waterscontracting.net	919-750-2234
Gareth Harvell	Jones County	gharvell@jonescountync.gov	252-571-1625
Kyle Smith	Jones County	ksmith@jonescountync.gov	252-617-8497
Chris Walker	Walker group Architecture	Chris@wgarc.com	252-636-8778
Lee Hiner	Bruin Builders	bruinbuilders@hotmail.com	252-635-9940

INSTALLATION KEYED NOTES "(#)":

1. PROVIDE DRYER BOX CENTERED BEHIND APPLIANCE. BOTTOM OF DRYER BOX SHALL BE NO MORE THAN 2" A.F.F. TERMINATE AT EXTERIOR MINIMUM 12" A.F.G. WITH WALL CAP WITH GRAVITY BACKDRAFT DAMPER.
2. TOXIC GAS MONITORING CONTROL PANEL. SEE DETAIL 1/M-202.
3. DOOR SWITCH CONTROLLER. SEE DETAIL 4/M202 FOR ADDTIONAL DETAILS.
4. 4" FLUE PIPING THROUGH ROOF.
5. HVLS FAN CONTROLLERS.
6. OPEN-ENDED RETURN DUCT. PROVIDE ELBOW UP AND COVER WITH HARDWARE CLOTH.
7. HIGH PRESSURE GAS LINE (10 PSIG) FROM TANK. TANK AND HIGH PRESSURE REGULATOR BY OTHERS. FIELD CONFIRM FINAL LOCATION OF TANK.
8. GAS RISE TO STRUCTURE.
9. CONDENSATE DRYWELL.

BID ALTERNATE 03:

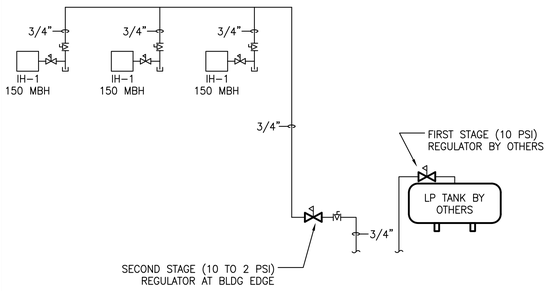
- PROVIDE SPLIT SYSTEM HEAT PUMPS (SYSTEM 2.1 AND 2.2) FOR SHOP CONDITIONING IN LIEU OF INFRARED GAS HEATERS AND ASSOCAITED GAS PIPING, FLUE PIPING, CONTROLS, ETC.

GAS PIPING DESIGN TABLE

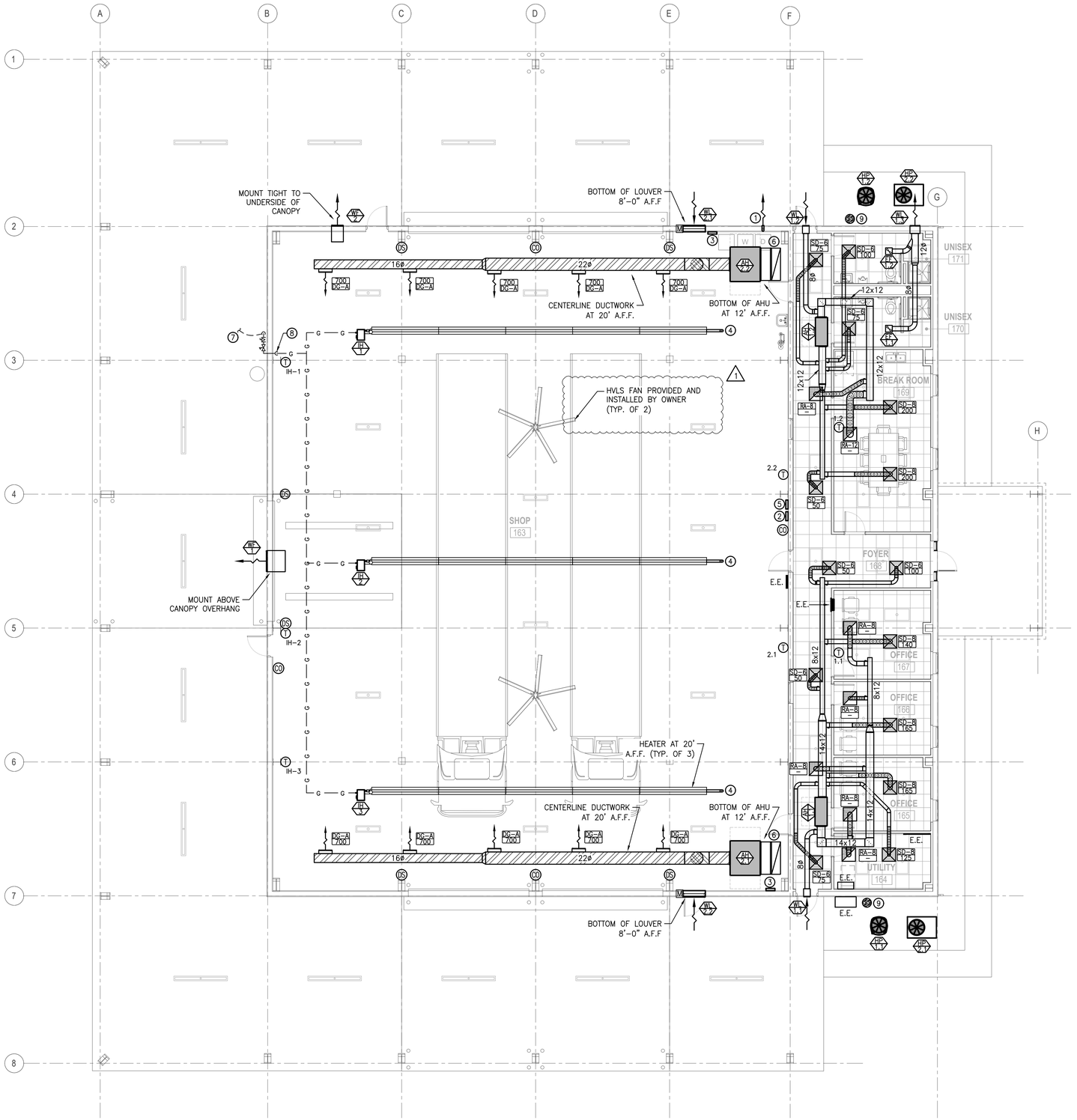
PIPING MATERIAL:	SCH 40 BLACK IRON	RADIANT HEATERS	450 MBH
DEVELOPED LENGTH:	125'		
REQ'D HEADER SIZE:	3/4"		
		TOTAL CAPACITY:	450 MBH

SERVICE TYPE	SYSTEM PRESSURE	PRESSURE DROP	INPUT CAPACITY	
PROPANE	2 PSI	1.0 PSI	450 MBH	179 CFH

NOTE: GAS PIPING ON PLANS SIZED BASED ON NC FUEL GAS CODE TABLE 402.4(25) AND 402.4(27).



2 GAS PIPING SCHEMATIC
SCALE: N.T.S.



1 MECHANICAL DUCT & EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

N

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P.O. BOX 11527
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NC LIC #: C-1132

PROJECT NO.	PROJECT MGR.	DRAWN BY
226002	D. HAM	NGB

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM
3/23/26

Jones County Public Works Building

1539 NC HWY 58
TRENTON, NC 28585

No.	Date	Revisions
1	03/23/2026	ADDENDUM 01.

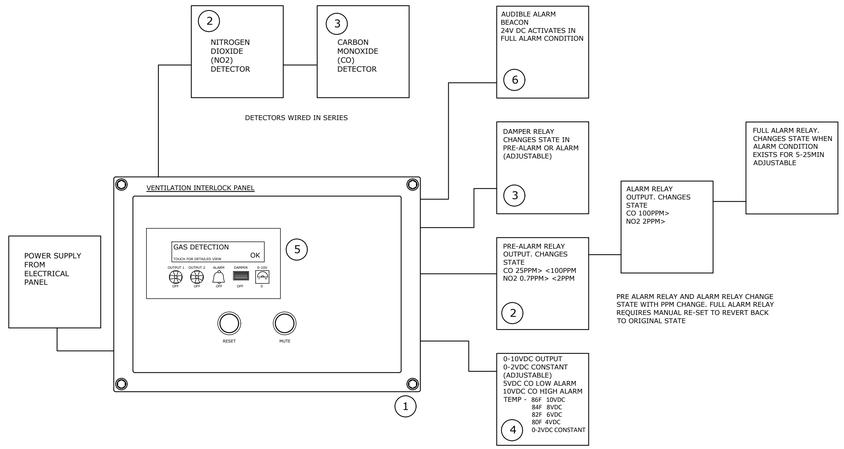
Project Number: 2523.JCPW
Date: 2/27/26
Drawn
Checked

Scale: AS NOTED

Drawing Title: **MECHANICAL PLAN**

Sheet Number: 1 Of 5

Drawing Number: **M-101**



1. VENTILATION CONTROL PANEL MODULATES FANS ON/OFF OR SPEED DEPENDING ON CONCENTRATIONS OF CO (CARBON MONOXIDE) AND NO2 (NITROGEN DIOXIDE) WITHIN THE STRUCTURE.
2. UNIT PROVIDES RELAY OUTPUTS FOR PRE-ALAM, ALARM AND FULL ALARM CONDITIONS. VOLT FREE NON LATCHING MAX 6A. OUTPUT 1 CHANGES STATE WHEN DETECTORS REACH PRE-ALARM CO >25PPM <100PPM NO2 >0.7PPM <2PPM OUTPUT 2 CHANGES STATE WHEN DETECTORS REACH ALARM CO 100>PPM NO2 >2PPM. FULL ALARM CHANGES STATE AFTER HIGH ALARM CONTINUES 1-5 MINUTES ADJUSTABLE.
3. DAMPER RELAY CHANGES STATE WITH PRE-ALARM OR ALARM OUTPUTS ADJUSTABLE. VOLT FREE NON LATCHING MAX 6A.

STAND-ALONE TOXIC AND COMBUSTIBLE GAS DETECTOR

1. GAS DETECTOR CONTROL PANEL EQUAL TO CGS PARKSAFE WITH REMOTE CGS PARKSAFE DETECTORS.
2. PROVIDING CONTINUOUS MONITORING IN AMBIENT AIR AND TWO FACTORY SET ALARM LEVELS AND OUTPUTS TO CONTROL EXHAUST FANS AND MOTORIZED DAMPERS.
3. CONTROL PANEL SHALL PROVIDE POWER TO REMOTE DETECTORS.
4. THE DETECTORS SHALL BE FACTORY CALIBRATED AND CERTIFIED TO THE TARGET GAS WITHOUT THE NEED FOR ON-SITE CALIBRATION OR PROGRAMMING.
5. THE DETECTOR SHALL PROVIDE A POWER, FAULT AND ALARM INDICATION LOCALLY.
6. THE DETECTORS SHALL BE CAPABLE OF OPERATING WITHIN A RELATIVE HUMIDITY RANGE OF 5-85% NON CONDENSING AND A TEMPERATURE RANGE OF -4 F TO 104 F.
7. THE CONTROL PANEL DISPLAY SHALL PROVIDE INDIVIDUAL DETECTOR PPM, ALARM LEVEL, FAULT, END OF LIFE AND SERVICE STATUS.
8. THE CONTROL PANEL SHALL PROVIDE ALARM RELAYS 6A MAX 250V AND 0-10V OUTPUT.
9. ALARM 1 - CO >25 PPM NO2 > 0.7 PPM
   ALARM 2 - CO >100 PPM NO2 > 2 PPM
10. CERTIFICATIONS: LISTED TO UL ICE 61010-1 AND CONFORMS TO UL2075.
11. AFTER INSTALLATION, TEST TO DEMONSTRATE OPERATION OF FUNCTION DESCRIBED ABOVE UNDER SEQUENCE OF OPERATION PER MANUFACTURERS INSTRUCTIONS.

4. 0-10VDC OUTPUT. 0-2V CONSTANT ADJUSTABLE. 5V OUT ON LOW ALARM, AND 10V HIGH ALARM. PANEL SHALL ALSO CONTROL FAN SPEED BASED ON SPACE TEMPERATURES (DISABLE). PANEL SHALL BE CAPABLE OF REGULATING FAN SPEED AT FOUR DIFFERENT SETPOINT TEMPERATURES (DISABLE).
5. PANEL PROVIDES COLOR DISPLAY FOR ALARM CONDITIONS. GREEN-GOOD, YELLOW-PRE-ALARM, ORANGE-ALARM, AND RED-FULL ALARM. TOUCH SCREEN MENU PROVIDES ACCESS TO SETTINGS, SENSOR TYPE AND CONDITION. FAN AND RELAY STATE SHOWN VIA IMAGES.
6. AUDIBLE ALARM BEACON. ACTIVATES IN FULL ALARM CONDITION. LOCATE ADJACENT TO PANEL.

SEQUENCE OF OPERATION

NORMAL WHEN GASES REMAIN BELOW 25 PPM CO AND/OR 0.7 PPM NO2, 0-10V OUTPUT WILL SEND 0V OR 2V.

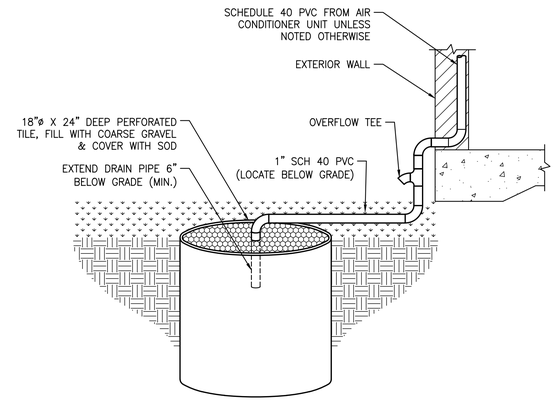
ALARM 1. WHEN GASES ARE >25PPM CO AND/OR >0.7PPM NO2, 0-10V OUTPUT WILL SEND 5V TO THE VFD, AND OPENS MOTORIZED DAMPERS. WHEN LEVELS OF GAS DROPS BELOW ALARM 1 THRESHOLDS, CONTROL PANEL SIGNALS EF(S) TO STOP AND CLOSES MOTORIZED DAMPERS.

ALARM 2. WHEN GASES ARE >100PPM CO AND/OR >2PMM NO2, 0-10V OUTPUT WILL SEND 10V TO EF(S) VFD AND DAMPER SHALL REMAIN OPEN. THE CONTROL PANEL SHALL INDICATE THE ALARM LEVEL WITH A VISUAL AND AUDIBLE ALARM.

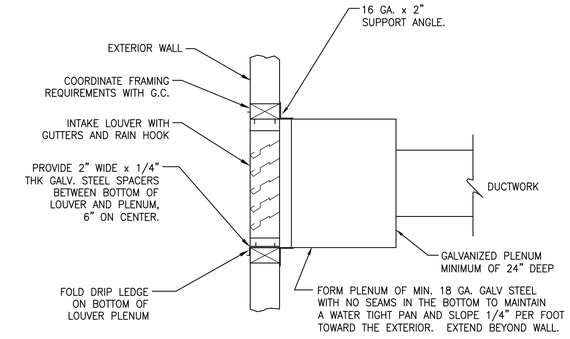
IF ALARM LEVEL 2 CONTINUES TO EXIST FOR A DESIRED AMOUNT OF TIME (5-25MIN ADJ.) THE CONTROL PANEL SHALL SIGNAL A REMOTE AUDIBLE AND VISUAL ALARM BEACON TO SOUND. THIS CONDITION REQUIRES A MANUAL RE-SET OF THE SYSTEM TO PLACE IT BACK INTO NORMAL OPERATION.

SENSOR LOCATION: CO - 60" AFF, NO2 - 48" AFF

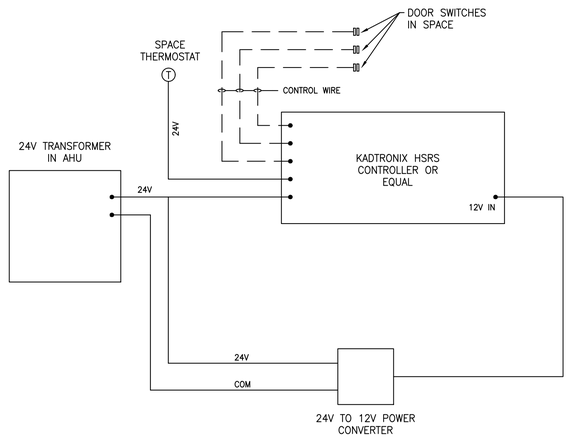
1 CO & NO2 GAS DETECTION SYSTEM
SCALE: N.T.S.



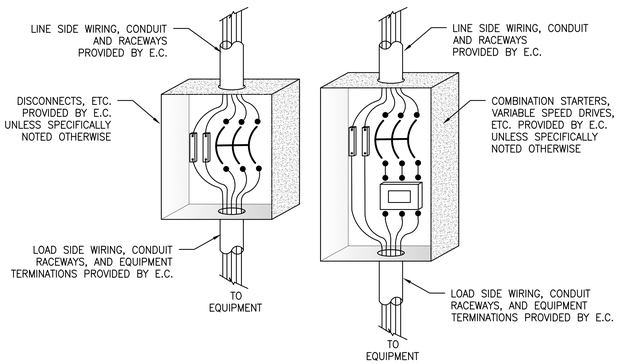
2 DRYWELL (FRENCH DRAIN) DETAIL
SCALE: N.T.S.



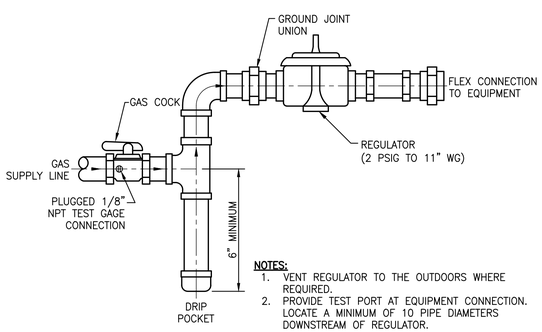
3 MAKEUP AIR LOUVER DETAIL
SCALE: N.T.S.



4 DOOR SWITCH CONTROL DETAIL
SCALE: N.T.S.

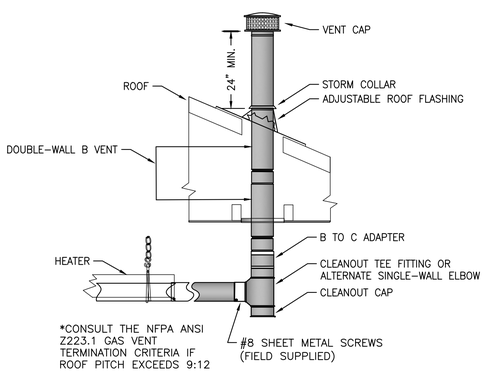


5 ELECTRICAL WIRING COORDINATION DETAIL
SCALE: N.T.S.



NOTES:
1. VENT REGULATOR TO THE OUTDOORS WHERE REQUIRED.
2. PROVIDE TEST PORT AT EQUIPMENT CONNECTION. LOCATE A MINIMUM OF 10 PIPE DIAMETERS DOWNSTREAM OF REGULATOR.

6 GAS EQUIPMENT CONNECTION DETAIL
SCALE: N.T.S.



*CONSULT THE NFPA ANSI Z223.1 GAS VENT TERMINATION CRITERIA IF ROOF PITCH EXCEEDS 9:12

NOTES:
1. PROVIDE OFFSETS AS REQUIRED TO CLEAR STRUCTURE.
2. PROVIDE EXHAUST VENTING INSTALLED PER MANUFACTURES RECOMMENDATIONS. FOLLOW ALL REQUIREMENTS OF INSTALLATION MANUALS.
3. COORDINATE WITH BUILDING STRUCTURE AND INTAKE VENTS FOR THE LOCATION AND CLEARANCES OF THE EXHAUST PIPE.
4. 4" OUTDOOR AIR (INTAKE) VENTING SHALL BE PROVIDED TO AVOID BUILDING PRESSURE DIFFERENCES. INTAKE MAY BE HORIZONTAL (THROUGH WALL) OR VERTICAL (THROUGH ROOF) OF DISTANCES NO GREATER THAN RECOMMENDED BY MANUFACTURER.

7 GAS VENTING INSTALLATION FOR RADIANT HEATER DETAIL
SCALE: N.T.S.

1

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PROJECT NO. 226002 | PROJECT MGR. D. HAM | DRAWN BY NGB

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM
3/23/26

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Revisions		
No.	Date	
1	03/23/2026	ADDENDUM 01

Project Number 2523.JCPW | Date 2/27/26
Drawn | Checked
Scale AS NOTED
Drawing Title

MECHANICAL DETAILS

Sheet Number 3 Of 5
Drawing Number **M-202**

HEAT PUMP (INDOOR UNIT) SCHEDULE

MARK	SUPPLY FAN				NOMINAL COOLING CAPACITY			AUX. HEAT	ELECTRICAL				BASIS OF DESIGN		WEIGHT
	SA CFM	OA CFM	EXT SP	MTR HP	EAT(DB/WB)	TOT CAP	SEN CAP	@ 208V	VOLT/PH	FLA	MCA	MOCP	MANF.	MODEL	
AH-1.1	700	110	0.5"	1/3	78°/65°	22.2 MBH	16.7 MBH	3.6 kW	208/1ø	17.3	25	25	TRANE	5TEM4B02	120 LBS
AH-1.2	875	100	0.5"	1/2	78°/65°	25.8 MBH	19.4 MBH	5.8 kW	208/1ø	27.7	39	40	TRANE	5TEM4B03	120 LBS
AH-2.1	3500	400	0.5"	2.0	78°/65°	127.6 MBH	95.3 MBH	18.7 kW	208/3ø	–	78	80	TRANE	TWE120K3	900 LBS
AH-2.2	3500	400	0.5"	2.0	78°/65°	127.6 MBH	95.3 MBH	18.7 kW	208/3ø	–	78	80	TRANE	TWE120K3	900 LBS

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - SINGLE POINT WIRING CONNECTION
   - TXV MATCHING CONDENSER CAPACITY
   - 7-DAY PROGRAMMABLE THERMOSTAT
   - ECM FAN MOTORS
   - MERV 8 FILTERS AND FILTER RACK
   - 2 STAGE ELECTRIC HEAT (AH-2.1, 2.2)

HEAT PUMP (OUTDOOR UNIT) SCHEDULE

MARK	EAT(DB)	NOM CAP	ELECTRICAL			EFFICIENCY		BASIS OF DESIGN		WEIGHT
			VOLT/PH	MCA	MOCP	COOLING	HEATING	MANF.	MODEL	
HP-1.1	95°	2.0 TONS	208/1ø	13	20	14.3 SEER2	7.5 HSPF2	TRANE	5TWR4024	180 LBS
HP-1.2	95°	2.5 TONS	208/1ø	16	25	14.3 SEER2	7.5 HSPF2	TRANE	5TWR4030	180 LBS
HP-2.1	95°	10.0 TONS	208/3ø	39	50	14.1 IEER	2.25 COP	TRANE	TWA120K3D	500 LBS
HP-2.2	95°	10.0 TONS	208/3ø	39	50	14.1 IEER	2.25 COP	TRANE	TWA120K3D	500 LBS

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - 5 YEAR COMPRESSOR WARRANTY
   - COMPRESSOR ANTI SHORT CYCLE DELAY
   - CRANKCASE HEATERS
   - HIGH AND LOW PRESSURE SWITCHES
   - OUTDOOR THERMOSTAT
   - TWO STAGE COOLING (HP-2.1, 2.2)
   - LOW AMBIENT CONTROL TO 30° OPTION

2. M.C. SHALL COORDINATE PRODUCT SPECIFIC ELECTRICAL REQUIREMENTS WITH E.C..

CABINET EXHAUST FAN SCHEDULE

MARK	TYPE	SERVICE	CFM	RPM	ESP	WATTS	VOLT/PH	REF. MANUF.	REF. MODEL	NOTES	CONTROL
EF-1.1	DIRECT DR.	GANG TLT	200	779	0.15"	36	120/1ø	GREENHECK	SP-A200	1-3	A
EF-1.2	DIRECT DR.	GANG TLT	200	779	0.15"	36	120/1ø	GREENHECK	SP-A200	1-3	A

NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER.
2. PROVIDE WITH ELEC. COMMUTATED MOTOR WITH POTENTIOMETER INTERNALLY MOUNTED.

CONTROL TYPE DESCRIPTION:
A. INTERLOCK WITH ROOM LIGHTING CONTROL BY EC.

WALL EXHAUST FAN SCHEDULE

MARK	TYPE	SERVICE	CFM	RPM	ESP	TSP	MTR HP	FLA	VOLT/PH	WALL OPENING	REF. MANUF.	REF. MODEL	WEIGHT	NOTES	CONTROL
WF-1	DIRECT DR.	SHOP	6,000	1154	0.25"	0.46"	2.0	12.5	208/1ø	34"x34"	GREENHECK	AER-24-02-0625-VG	250 LBS	1,2	A
WF-2	DIRECT DR.	MIN. VENT.	500	1246	0.25"	0.31"	1/4	2.9	120/1ø	15"x15"	GREENHECK	SE1-12-432-VG	50 LBS	1,2	B

NOTES:
1. PROVIDE WITH THE FOLLOWING.
   - PREMIUM EFFICIENT ELECTRICALLY COMMUTATED MOTOR CAPABLE OF 80% TURNDOWN
   - 4-20MA AND 0-10VDC INPUT FOR SPEED CONTROL
   - MOTOR OPERATED DISCHARGE DAMPER
   - WALL HOUSING FLUSH WITH BLDG EXTERIOR
   - NEMA-1 DISCONNECT SHIPPED WITH UNIT
2. FAN SHALL BE SIZED ON TOTAL STATIC PRESSURE OF THE SYSTEM, NOT FAN STATIC

   ESP – STATIC PRESSURE EXTERNAL TO THE FAN ASSEMBLY
   TSP – TOTAL STATIC PRESSURE INCLUDING FAN ACCESSORIES & LOUVERS

CONTROL TYPE DESCRIPTION:
A. INTERLOCK WITH MOTORIZED INTAKE LOUVER AND CONTROL VIA TOXIC GAS MONITORING SYSTEM.
B. CONTROL VIA WALL SWITCH BY E.C. FAN SHALL RUN CONTINUOUSLY FOR MINIMUM VENTILATION.

LOUVER SCHEDULE

MARK	SERVICE	SIZE	CFM	SP	FREE AREA	MATERIAL	REF. MANF.	REF. MODEL	NOTES
WL-2.1	INTAKE	12"Wx12"H	100	0.09"	0.2 SQFT	ALUMINUM	GREENHECK	EHV-550	1,2,4
WL-2.2	INTAKE	12"Wx12"H	110	0.09"	0.2 SQFT	ALUMINUM	GREENHECK	EHV-550	1,2,4
WL-2.3	EXHAUST	18"Wx18"H	400	0.12"	0.7 SQFT	ALUMINUM	GREENHECK	EHV-550	1,2,4
WL-2.1	INTAKE	40"Wx40"H	3000	0.12"	5.3 SQFT	ALUMINUM	GREENHECK	EHV-550	1-4
WL-2.2	INTAKE	40"Wx40"H	3000	0.12"	5.3 SQFT	ALUMINUM	GREENHECK	EHV-550	1-4

NOTES:
1. PROVIDE WITH BIRD SCREEN, EXTENDED SILL & 2 COATS OF KYNAR FINISH (AAMA 2605).
2. SUBMIT LOUVER TYPE & COLOR PALLET TO ARCHITECT FOR COLOR SELECTION.
3. PROVIDE WITH PARALLEL BLADE DAMPER AND 120V ACTUATOR AT REAR OF LOUVER INTERLOCKED WITH ASSOCIATED FAN.
4. LOUVERS SHALL BE LICENSED TO BEAR THE AMCA CERTIFIED RATINGS PROGRAM SEAL FOR AIR PERFORMANCE, WINDDRIVEN RAIN AND WATER PENETRATION IN ACCORDANCE WITH AMCA PUBLICATION 511.
5. HURRICANE LOUVERS SHALL BE AMCA 540 AND 550 CERTIFIED.

INFARED HEATER SCHEDULE

MARK	QTY.	LENGTH	MTG HEIGHT	INPUT(HI/LO)	FUEL	VOLT/PH	RLA	MAX AMPS	REF. MANF.	REF. MODEL
IH-1	1	50'	20'	150/100 MBH	LP	120/1ø	1.1	4.8	DETROIT	HL3-50-150
IH-2	1	50'	20'	150/100 MBH	LP	120/1ø	1.1	4.8	DETROIT	HL3-50-150
IH-3	1	50'	20'	150/100 MBH	LP	120/1ø	1.1	4.8	DETROIT	HL3-50-150

NOTES:
1. PROVIDE WITH:
   - DIRECT SPARK IGNITION
   - POLISHED ALUMINUM REFLECTOR
   - 120 VOLT TWO STAGE WALL THERMOSTAT
   - TWO STAGE GAS VALVE
   - WALL VENT KIT – AIR INTAKE FROM SPACE
   - FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR VENTING
   - PROVIDE WITH ACCESORIES FOR PROPANE FUEL
2. 3-YEAR COMBUSTION AND TUBE WARRANTY, 5-YEAR BURNER WARRANTY

1

AIR DISTRIBUTION SCHEDULE

MARK	CFM RANGE	MANUF.	MODEL	TYPE	MNT.	SIZE	NECK	PATTERN	MAT'L	FINISH	NOTES
SD-6	0-100	PRICE	SCD 4 CONE	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	6"ø	4-WAY	ALUM.	WHITE	1-3
SD-8	105-200	PRICE	SCD 4 CONE	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	8"ø	4-WAY	ALUM.	WHITE	1-3
DG-A	600-850	PRICE	HCD	HIGH CAPACITY DRUM LOUVER	DUCT	10"x24"	N/A	4-WAY	ALUM.	PNT. GRP.	5,6
RA	0-800	PRICE	80	RETURN EGGCRATE FACE	LAY-IN	24"x24"	6"ø TO 12"ø	–	ALUM.	WHITE	1,4

NOTES:
1. VERIFY AIR DISTRIBUTION TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. PROVIDE WITH REMOVABLE CORE.
3. PROVIDE WITH INSULATED BACKPAN.
4. PROVIDE WITH INSULATED, BLACK BACK PAN.
5. PROVIDE WITH SPIRAL DUCT FRAME.
6. PROVIDE WITH ROTATEABLE DRUM AND SINGLE BLADE VERTICAL DISCHARGE VANES.

Ventilation Sizing Summary Based on ASHRAE 62.1-2016
for Constant Volume Systems serving multiple spaces

Zone 1.1-Breakroom, Corridor, Restroom

Space Name	Mult.	Req. Supply Air (CFM) (Vpz)	Space Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Avg Occ (Pz)	People Rate (CFM/ person) (Rp)	Air Eff (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone (CFM) (Vou)	Space Vent Eff (Evz)
162 Corridor N	1	125	329	0.06	0	5	0.8	**25**	20	0.948
169 Breakroom	1	400	440	0.06	8	5	0.8	**83**	66	0.938
170 Unisex	1	75	125	0.06	0	5	0.8	**9**	8	1.021
171 Unisex	1	100	140	0.06	0	0	0.8	**11**	8	1.041
Totals (incl. Space Mult)		700							102	0.938
								OA Required for unit		109
								OA CFM Provided		110

Zone 1.2-Offices, Corridor

Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vou)	(Evz)
162 Corridor S	1	175	329	0.06	0	0	0.5	**39**	20	0.874
164 Utility	1	125	154	0.06	0	0	0.6	**15**	9	0.976
165 Office	1	140	180	0.06	1	5	0.7	**23**	16	0.938
166 Office	1	165	180	0.06	1	5	0.8	**20**	16	0.980
167 Office	1	165	217	0.06	1	5	0.8	**23**	18	0.963
168 Foyer	1	100	132	0.06	0	5	0.8	**10**	8	1.000
Totals (incl. Space Mult)		870							87	0.874
								OA Required for unit		99
								OA CFM Provided		100

NOTES:
1. VENTILATION FOR THE SHOP IS PROVIDED VIA MECHANICAL VENTILATION THROUGH EXHAUST FANS AND INTAKE LOUVERS WHICH EXCEEDS THE REQUIRED 0.75 CFM/SQFT PER NORTH CAROLINA MECHANICAL CODE 404.

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PROJECT NO. 226002 | PROJECT MGR. D. HAM | DRAWN BY NGB

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM
3/23/26

Jones County Public Works Building

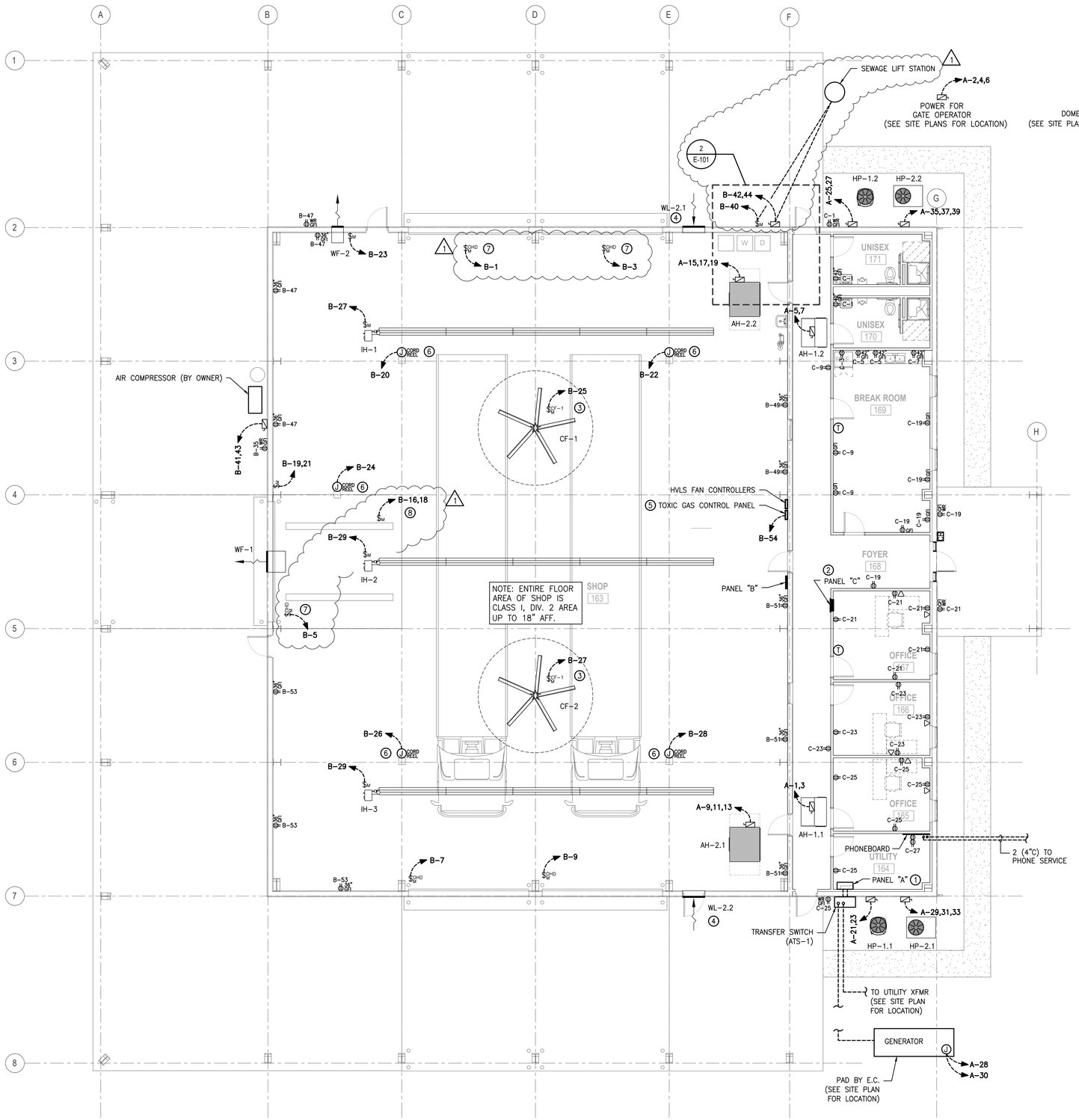
1539 NC HWY 58
TRENTON, NC 28585

Revisions		
No.	Date	
1	03/23/2026	ADDENDUM 01

Project Number 2523.JCPW | Date 2/27/26
Drawn | Checked
Scale AS NOTED
Drawing Title

MECHANICAL SCHEDULES

Sheet Number 4 Of 5
Drawing Number M-301

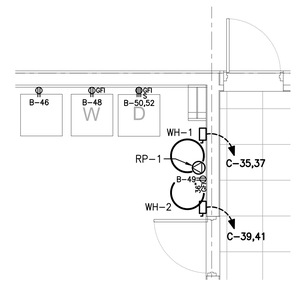


1 ELECTRICAL POWER & RECEPTACLE PLAN
SCALE: 1/8" = 1'-0"

N

INSTALLATION KEYED NOTES "#":

1. PROVIDE (3) SPARE 1"C FROM PANEL A TO EXTERIOR OF BUILDING. RACEWAYS SHALL BE ROUTED DOWN FROM PANEL AND INTO BUILDING SLAB, THROUGH FOOTING AND CAPPED UNDERGROUND.
2. PROVIDE (2) SPARE 2"C FROM PANEL C. PROVIDE AS-BUILT PLANS SHOWING TERMINATION LOCATION OF RACEWAYS.
3. PROVIDE 1"C FROM CONTROLLER TO NEAR CEILING JOIST FOR CONTROL WIRING TO HVLS FAN (CF-1 AND CF-2).
4. PROVIDE 2#14 & 1#14G IN 3/4"C FROM LOUVER TO GAS DETECTION PANEL. PROVIDE DISCONNECT NEXT TO LOUVER MOTOR. 120V POWER FOR LOUVER SHALL COME FROM SAME CIRCUIT AS GAS DETECTION PANEL. GAS DETECTION PANEL HAS A RELAY FOR DAMPER CONTROL. PROVIDE CONTROL WIRING FROM FAN TO GAS DETECTION SYSTEM.
5. REFERENCE MECHANICAL DRAWINGS FOR WIRING REQUIREMENTS OF GAS DETECTION SYSTEM. PROVIDE WIRING AND RACEWAYS FOR SENSORS, ALARM STROBE/HORN, AND FAN/DAMPER CONTROL PANEL AND SENSORS. PROVIDED BY M.C..
6. PROVIDE HEAVY DUTY CORD REEL MODEL "L 70075 123 3A" AS MANUFACTURED BY REELCRAFT, OR EQUAL. REEL SHALL HAVE 75' OF 12/3 CABLE WITH 5-20R SINGLE OUTLET. COORDINATE LOCATIONS WITH OWNER AND ARCHITECT BEFORE INSTALLATION.
7. PROVIDE CONTROL WIRING AS SUGGESTED BY MANUFACTURER OF OVERHEAD DOOR IN 1/2" CONDUIT TO THE DOOR CONTROLLER. INSTALL DOOR CONTROLLER AT 48" A.F.F. ADJACENT TO THE DOOR. INSTALL THE MOTOR DISCONNECTS EITHER AT 60" A.F.F. OR NEAR THE MOTOR.
8. LIFT IS FUTURE. INSTALL DISCONNECT AT CEILING.



2 ENLARGED ELECTRICAL POWER & RECEPTACLE PLAN
SCALE: 1/4" = 1'-0"

N

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PROJECT NO. 226002 | PROJECT MGR. D. HAM | DRAWN BY BLT

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM
3/23/26

Jones County Public Works Building

1539 NC HWY 58
TRENTON, NC 28585

No.	Date	Revisions
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Project Number 2523.JCPW | Date 2/27/26
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Scale
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Drawing Title
ELECTRICAL PLANS

Sheet Number
1 Of 7

Drawing Number
E-101

SERVICE LOAD SUMMARY

OCCUPANCY TYPE – AUTOMOTIVE FACILITY/OFFICE			BUILDING AREA – 9,700 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING (1.5W/SF)	14.5	TABLE 220.12	100%	TABLE 220.42	14.5
OUTDOOR LIGHTING	0.5	--	100%	--	0.5
AIR HANDLER FANS (SPLIT SYSTEMS)	6.0	ARTICLE 440	100%	--	6.0
AIR HANDLER ELECTRIC HEAT	46.8	422.12	100%	--	46.8
HVAC OUTDOOR UNIT	31.2	ARTICLE 440	100%	--	31.2
CIRCULATION FANS	0.5	ARTICLE 430	100%	--	0.5
WATER HEATERS	12.0	422.13	100%	--	12.0
SUBTOTAL CONTINUOUS LOADS					111.5
				230.42 A 1	x 125%
				CONT. LOAD TOTAL	139.4
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	7.3	220.14 1	100% OF 1st 10 KVA		7.3
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
LAUNDRY EQ.	5.5	--	NONCONTINUOUS LOAD x 100%		5.5
WELDERS	8.7	ARTICLE 630	60% DUTY CYCLE = 0.78%		6.8
AIR COMPRESSOR	10.0	ARTICLE 430	NONCONTINUOUS LOAD x 100%		10.0
OVERHEAD DOORS	2.0	--	NONCONTINUOUS LOAD x 100%		2.0
MISC. LOADS	2.0	--	NONCONTINUOUS LOAD x 100%		2.0
SUBTOTAL NON-CONTINUOUS LOADS					33.6
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					173.0

FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS (POLE MOUNT)		SERVICE LOAD		
$\frac{150 \text{ KVA (TRANSFORMER)}}{0.208 \times \sqrt{3} \times 1.5\%Z}$	= 27,800 AMPS	$\frac{173 \text{ KVA}}{0.208 \times \sqrt{3}}$	=	481 AMPS

NOTE: CONTRACTOR SHALL PROVIDE LABEL AT THE SERVICE EQUIPMENT INDICATING THE AVAILABLE FAULT CURRENT PER NEC 110.24. ENGINEER WILL PROVIDE CONTRACTOR LABEL DATA FOR FAULT CURRENT AFTER RECEIVING THE FOLLOWING: FINAL UTILITY TRANSFORMER SIZE AND IMPEDANCE VALUE (%Z), SERVICE CONDUCTOR LENGTH, QUANTITY PER PHASE, AND CONDUCTOR MATERIAL (COPPER OR ALUMINUM).

PANELBOARD SCHEDULE

PANEL A	SURFACE MOUNTED							600 AMP (FEEDER SIZE)				3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED					22K AIC		120/208 VOLT				BOLT ON BREAKER	
NEMA 1	COPPER BUS							600 AMP (BUS RATING)				--	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A B C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED
AH-1.1	2#12 & 1#10G	3/4"	17			1	25 20	2	7					
				17		3		4		7		1"	3#12 & 1#12G	GATE OPERATOR (3)
AH-1.2	2#8 & 1#10G	3/4"			28	5	40 20	6			7			
			28			7		8	–			–	–	SPARE
AH-2.1	3#4 & 1#8G	1"		72		9	80 20	10		–		–	–	SPARE
					72	11	20	12			–	–	–	SPARE
			72			13	20	14	–			–	–	SPARE
AH-2.2	3#4 & 1#8G	1"		72		15	80 20	16		–		–	–	SPARE
					72	17	20	18			–	–	–	SPARE
			72			19	20	20	–			–	–	SPARE
HP-1.1	2#12 & 1#12G	3/4"		10		21	20 20	22		–		–	–	SPARE
					10	23	20	24			–	–	–	SPARE
HP-1.2	2#12 & 1#10G	3/4"	14			25	25 20	26	12			3/4"	2#8 & 1#8G	DOMESTIC BFP (1)
				14		27	20	28		2		3/4"	2#12 & 1#12G	GEN BATT (2)
HP-2.1	3#8 & 1#10G	3/4"			32	29	50 20	30			12	3/4"	2#12 & 1#12G	GEN HEATER (2)
			32			31	200	32	134					
				32		33		34		109		2"	4#3/0 & 1#6G	PANEL B
HP-2.2	3#8 & 1#10G	3/4"			32	35	50	36			110			
			32			37	200	38	64					
				32		39		40		52		2"	4#3/0 & 1#6G	PANEL C
SPARE	–	–			–	41	20	42			68			

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

(1) PROVIDE 30mA GFPE BREAKER FOR EQUIPMENT PROTECTION (UL 1053)

(2) PROVIDE UNDER BID ALTERNATE 04.

(3) HORSEPOWER UNKNOWN. CONTRACTOR TO VERIFY WIRE AND BREAKER SIZES.

AUTOMATIC TRANSFER SWITCH SCHEDULE

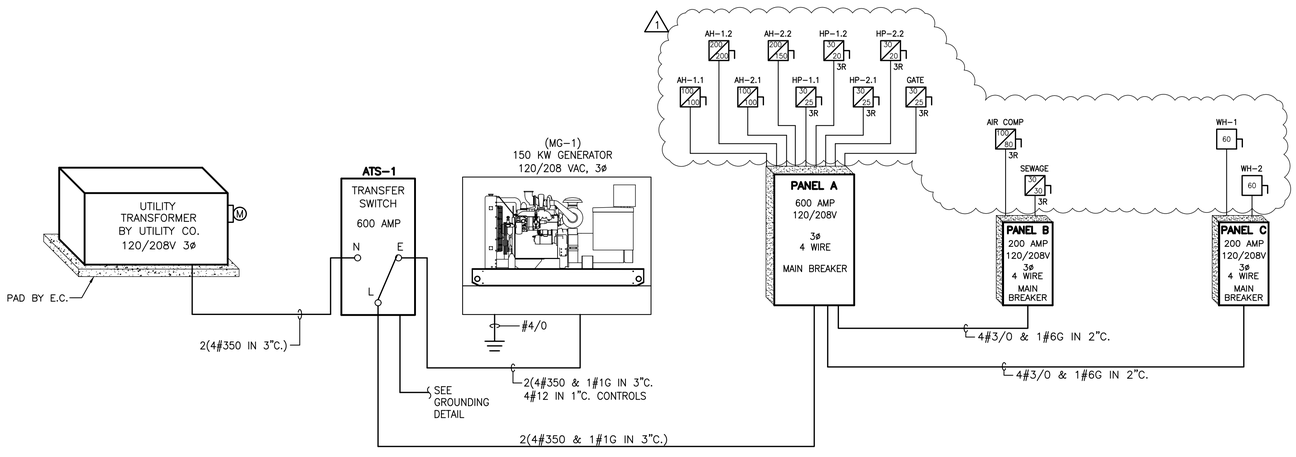
MARK	TRANSITION TYPE	VOLTS/PH/WIRES	RATING	ENCLOSURE	S.C. WITHSTAND	NO. POLES	S.E. RATED
ATS-1	OPENED TRANSITION	120/208 3ø 4W	600A	NEMA 3R	35 kAIC	3	YES

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - MICROPROCESSOR BASED CONTROLLER
   - 128 X 64 GRAPHICAL LED DISPLAY W/ SOFT KEYPAD
   - SOURCE AVAILABILITY AND SWITCH POSITION
   - 3 POSITION CONTACTOR
   - WITHSTAND/CLOSING RATING BASED ON ANY UPSTREAM BREAKER – TIME BASED UL 489 COORDINATION WITH 0.05 SECONDS.
   - UL1008 LISTED
   - GENERATOR AND UTILITY UNDER VOLTAGE CONTROL SETPOINT
   - UTILITY RETURN TIMER
   - ENGINE START CONTACT
   - SHORT CIRCUIT RATING BASED ON ANY UPSTREAM BREAKER
   - 5 YEAR WARRANTY
2. PROVIDE A SIGN ON THE TRANSFER SWITCH INDICATING THE LOCATION AND TYPE OF ON-SITE OPTIONAL STANDBY SOURCE PER STATE CONSTRUCTION OFFICE AND NEC 702.7. NOTE SHALL READ, "DIESEL GENERATOR POWER SOURCE LOCATED 30 FEET TO THE RIGHT."

PACKAGE GENERATOR SYSTEM SCHEDULE

MARK	VOLTS/PH	KW RATING	ALTERNATOR	RATING	FUEL TYPE	TANK SIZE
MG-1	120/208 3ø	150 KW	150KW	STANDBY	DIESEL	18 HOUR

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - ALTERNATOR SHALL BE PROTECTED PER THE REQUIREMENTS OF NFPA 70 SECTION 445.12
   - THE GENERATOR SET SHALL BE PROVIDED WITH AN OVERCURRENT PROTECTIVE DEVICE THAT IS COORDINATED WITH THE ALTERNATOR TO PREVENT DAMAGE ON ANY POSSIBLE OVERLOAD OR OVERCURRENT CONDITION EXTERNAL TO THE MACHINE. THE PROTECTIVE DEVICE SHALL BE LISTED AS A UTILITY GRADE PROTECTIVE DEVICE UNDER UL CATEGORY NRGU
   - PERMANENT MAGNET EXCITATION
   - THE GENERATOR SET SHALL PICK UP A BLOCK LOAD EQUAL TO THE SPECIFIED KW AT 0.8 POWER FACTOR AT RATED SITE CONDITIONS AND RECOVER TO RATED VOLTAGE AND FREQUENCY
   - MIN. 10 AMP BATTERY CHARGER, AUTOMATIC, SOLID-STATE, CURRENT LIMITING, FLOAT/EQUALIZING CHARGER WITH 4-STATE CHARGING ALGORITHM, 120-VOLT INPUT, OVERLOAD PROTECTION, D.C. AMMETER, D.C. VOLTMETER, LOW D.C. VOLTAGE ALARM RELAY.
   - CLASS H INSULATION (150 DEG C.)
   - DUAL WALL SUB-BASE FUEL TANK, UL142 LISTED AND LABELED
   - MICROPROCESSOR-BASED CONTROL FOR AUTOMATIC STARTING, MONITORING, AND CONTROL FUNCTIONS
   - CONTROL SHALL ALLOW FOR REMOTE MONITORING
   - **PROVIDE REMOTE SHUTDOWN BUTTON LOCATED ON EXTERIOR OF BUILDING.**
   - DIGITAL METERING SET, 100% ACCURACY, TO INDICATE RMS VOLTAGE AND CURRENT, FREQUENCY, OUTPUT KW, OUTPUT KVA, AND POWER FACTOR
   - MOUNTED MAIN LINE CIRCUIT BREAKER, SIZED TO CARRY RATED OUTPUT OF GENERATOR SET.
   - OUTDOOR WEATHER-PROTECTIVE AND LEVEL 2 SOUND ATTENUATED ENCLOSURE WITH CRITICAL GRADE SILENCER, NOT TO EXCEED 75dB @ 23 FEET FROM ENCLOSURE. ENCLOSURE SHALL BE RATED FOR ASCE/SEI 7 WIND LOAD OF 140MPH.
   - THE ENGINE-GENERATOR ASSEMBLY SHALL BE FASTENED TO A WELDED STEEL BASE WHICH SHALL ALLOW MOUNTING TO A RAISED CONCRETE PAD OR THE SUB-BASE FUEL TANK. ANCHOR BOLTS AND VIBRATION ISOLATORS SHALL BE USED TO MOUNT THE HEAVY STEEL BASE TO THE CONCRETE PAD.
   - A THERMOSTATICALLY CONTROLLED, IMMERSION TYPE ENGINE COOLANT HEATER SHALL BE PROVIDED.
   - 120 VAC GFCI DUPLEX RECEPTACLE
   - AC/DC INTERIOR LED LIGHTING KIT WITH BACK-UP POWER FROM GENERATOR BATTERY
   - ISO 8528 RATED
   - 5 YEAR COMPREHENSIVE WARRANTY
   - UL2200 LISTED FOR STATIONARY ENGINE GENERATOR ASSEMBLY.



(1) ELECTRICAL PANEL RISER
SCALE: N.T.S.

NOTE: E.C. SHALL PROVIDE ALTERNATE PRICING FOR GENERATOR (BID ALTERNATE 04). TRANSFER SWITCH SHALL BE BASE BID.

WALKER GROUP ARCHITECTURE
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PROJECT NO. 226002 | PROJECT MGR. D. HAM | DRAWN BY BLT

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM
3/23/26

Jones County Public Works Building

1539 NC HWY 58
TRENTON, NC 28585

Revisions

No.	Date	
1	03/23/2026	ADDENDUM 01

Project Number 2523.JCPW | Date 2/27/26
Drawn | Checked
Scale AS NOTED
Drawing Title

ELECTRICAL SCHEDULES

Sheet Number 5 Of 7
Drawing Number

E-301

PANELBOARD SCHEDULE

PANEL B	SURFACE MOUNTED									200 AMP (FEEDER SIZE)						3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED (4)					10K AIC				120/208 VOLT						BOLT ON BREAKER	
NEMA 1	COPPER BUS									200 AMP (BUS RATING)						__	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
OVERHEAD DOOR	2#8 & 1#8G	3/4"	12			1	20			2	12			3/4"	2#10 & 1#10G	LIGHTS	
OVERHEAD DOOR	2#10 & 1#10G	3/4"		12		3		20		4		12					
OVERHEAD DOOR	2#10 & 1#10G	3/4"			12	5			20	6			9	3/4"	2#10 & 1#10G	LIGHTS	
OVERHEAD DOOR	2#10 & 1#10G	3/4"	12			7	20			8	9						
OVERHEAD DOOR	2#10 & 1#10G	3/4"		12		9		20		10		4		3/4"	2#10 & 1#10G	EXTERIOR LIGHTS	(3)
SPARE	–	–			–	11	20			12			–	–	–	SPARE	
SPARE	–	–	–			13		20		14	–			–	–	SPARE	
SPARE	–	–		–		15	20			16		12		3/4"	2#10 & 1#10G	LIFT	(1)
SPARE	–	–			–	17		25		18			12				
WF–1	2#10 & 1#10G	3/4"	13			19	20			20	3			3/4"	2#10 & 1#10G	CORD REEL	(2)
				13		21		20		22		3		3/4"	2#10 & 1#10G	CORD REEL	(2)
WF–2	2#10 & 1#10G	3/4"			3	23	20			24			3	3/4"	2#10 & 1#10G	CORD REEL	(2)
CF–1	2#12 & 1#12G	3/4"	5			25		20		26	3			3/4"	2#10 & 1#10G	CORD REEL	(2)
CF–2	2#12 & 1#12G	3/4"		5		27	20			28		3		3/4"	2#12 & 1#12G	CORD REEL	(2)
INFRARED HEATERS	2#12 & 1#12G	3/4"			4	29		20		30			–	–	–	SPARE	
SPARE	–	–	–			31	20			32	–			–	–	SPARE	
SPARE	–	–		–		33		20		34		–		–	–	SPARE	
SPARE	–	–			–	35	20			36			–	–	–	SPARE	
SPARE	–	–	–			37		20		38	–			–	–	SPARE	
SPARE	–	–		–		39	20			40		2		1"	2#12 & 1#12G	PUMP CP ALARM	(1)
AIR COMPRESSOR (7.5 HP)	2#6 & 1#8G	3/4"	40			41	80			42			18	1"	3#8 & 1#8G	SEWAGE PUMP STATION CP	(1)
					40	43		30		44	18						
SPARE	–	–		–		45	20			46		6		3/4"	2#10 & 1#10G	ICE MACHINE	(2)
SHOP RECEPT	2#8 & 1#8G	3/4"			8	47	20			48			12	3/4"	2#10 & 1#10G	WASHER	
SHOP RECEPT	2#12 & 1#12G	3/4"	3			49		30		50	22			3/4"	3#8 & 1#8G	DRYER	
SHOP RECEPT	2#12 & 1#12G	3/4"		5		51	20			52		22					
SHOP RECEPT	2#8 & 1#8G	3/4"			5	53		20		54			2	3/4"	2#12 & 1#12G	TOXIC GAS PANEL	

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

(1) HORSEPOWER UNKNOWN. CONTRACTOR TO VERIFY WIRE AND BREAKER SIZES.
(2) PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489 AND UL 943.
(3) WIRE THROUGH PHOTOCELL
(4) CONTRACTOR SHALL VERIFY AND COORDINATE WITH PLANNED CONDUIT ROUTING.

(1)

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING	= 4.4	100%	= 4.4
OUTDOOR LIGHTING	= 0.5	100%	= 0.5
RECEPTACLES (1ST 10 KVA)	= 4.3	100%	= 4.3
RECEPTACLES (ABV 10 KVA)	= ___	50%	= ___
HVAC	= 4.7	100%	= 4.7
HVAC (NON–COINCIDENTAL)	= ___	0%	= ___
DEDICATED RECP/EQUIP	= 29.0	100%	= 29.0
TOTALS:	= 42.9 KVA		= 42.9 KVA

MINIMUM PANEL SIZE: 43 KVA X 125% = 54 KVA (149 AMPS)

GROSS PHASE TOTALS (AMPS) A = 152 B = 111 C = 128

PANELBOARD SCHEDULE

PANEL C	FLUSH MOUNTED									200 AMP (FEEDER SIZE)						3ø, 4 WIRE	
MAIN BREAKER	BOTTOM FEED (3)					10K AIC				120/208 VOLT						BOLT ON BREAKER	
NEMA 1	COPPER BUS									200 AMP (BUS RATING)						__	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A	B	C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
RESTROOM RECEPT	2#12 & 1#12G	3/4"	5			1	20			2	6			3/4"	2#12 & 1#12G	LIGHTS	
(1) REFRIGERATOR	2#12 & 1#12G	3/4"		6		3		20		4		1		3/4"	2#12 & 1#12G	EXTERIOR LIGHTS	(2)
BREAKROOM RECEPT	2#12 & 1#12G	3/4"			3	5	20			6			–	–	–	SPARE	
BREAKROOM RECEPT	2#12 & 1#12G	3/4"	12			7		20		8	–			–	–	SPARE	
BREAKROOM RECEPT	2#12 & 1#12G	3/4"		5		9	20			10		–		–	–	SPARE	
SPARE	–	–			–	11		20		12			–	–	–	SPARE	
SPARE	–	–	–			13	20			14	–			–	–	SPARE	
SPARE	–	–		–		15		20		16		–		–	–	SPARE	
SPARE	–	–			–	17	20			18			–	–	–	SPARE	
BREAKROOM RECEPT	2#12 & 1#12G	3/4"	6			19		20		20	–			–	–	SPARE	
OFFICE RECEPT	2#12 & 1#12G	3/4"		9		21	20			22		–		–	–	SPARE	
OFFICE RECEPT	2#12 & 1#12G	3/4"			8	23		20		24			–	–	–	SPARE	
OFFICE RECEPT	2#12 & 1#12G	3/4"	6			25	20			26	–			–	–	SPARE	
PHONEBOARD	2#12 & 1#12G	3/4"		3		27		20		28		–		–	–	SPARE	
SPARE	–	–			–	29	20			30			–	–	–	SPARE	
SPARE	–	–	–			31		20		32	–			–	–	SPARE	
SPARE	–	–		–		33	20			34		–		–	–	SPARE	
WH–1	2#8 & 1#10G	3/4"			29	35		20		36			–	–	–	SPARE	
			29			37	40			38	–			–	–	SPARE	
WH–2	2#8 & 1#10G	3/4"		28		39		20		40		–		–	–	SPARE	
					28	41	20			42			–	–	–	SPARE	

COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

(1) PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489 AND UL 943.
(2) WIRE THROUGH PHOTOCELL
(3) CONTRACTOR SHALL VERIFY AND COORDINATE WITH PLANNED CONDUIT ROUTING.

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING	= 0.7	100%	= 0.7
OUTDOOR LIGHTING	= 0.1	100%	= 0.1
RECEPTACLES (1ST 10 KVA)	= 6.5	100%	= 6.5
RECEPTACLES (ABV 10 KVA)	= ___	50%	= ___
HVAC	= ___	100%	= ___
HVAC (NON–COINCIDENTAL)	= ___	0%	= ___
WATER HEATERS	= 11.9	100%	= 11.9
DEDICATED RECP/EQUIP	= 1.1	100%	= 1.1
TOTALS:	= 20.3 KVA		= 20.3 KVA

MINIMUM PANEL SIZE: 20 KVA X 125% = 25 KVA (70 AMPS)

GROSS PHASE TOTALS (AMPS) A = 64 B = 52 C = 68

ELECTRICAL LEGEND

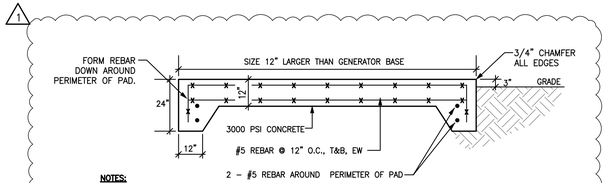
SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
J	JUNCTION BOX	–	DOUBLE GANG UNO
T S	THERMOSTAT OR SENSOR JUNCTION BOX	–	MOUNT 48" TOD AFF UNO
	NON–FUSED DISCONNECT	–	–
	FUSED DISCONNECT	–	–
OS$_{DT}$	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LOW VOLTAGE)	WATTSTOPPER DT–305	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
OS$_{DT}$	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LINE VOLTAGE – 800W)	WATTSTOPPER DT–355	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
OS$_{US}$	CEILING OCCUPANCY SENSOR (LOW VOLTAGE)	WATTSTOPPER WT–1105 OR WT–2205	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
$$_{US}$	WALL SWITCH WITH OCCUPANCY SENSOR (ULTRASONIC)	WATTSTOPPER UW–100, OR EQUAL	–
$$_{OS}$	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW–100, OR EQUAL	–
$$_{OS}$	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW–103, OR EQUAL	MULTI–WAY CONTROL UP TO FOUR SWITCH LOCATIONS
$	SWITCH	HUBBELL CSB120x	–
$$_{D}$	0–10V DIMMER SWITCH	HUBBELL PSD710–UNV	STAND ALONE CONTROL
$$_{D,3}$	0–10V DIMMER SWITCH W/ 3–WAY CONTROL	LEVITON DD710–BDZ	STAND ALONE CONTROL
$$_{3}$	3 WAY SWITCH	HUBBELL CS320x	–
$$_{4}$	4 WAY SWITCH	HUBBELL CS420x	–
$$_{M}$	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED
$$_{OHD}$	OVERHEAD DOOR CONTROL	–	MOUNT AS REQUIRED
	EMERGENCY LIGHT	–	SOLID FILL HATCHING
	RECEPTACLE	HUBBELL HBL5352x	HBL5362C2x FOR CONTROLLED RECEPTACLE
$_{WR}$	WEATHER RESISTANT	HUBBELL HBL5362xWR	–
$_{TV}$	TV RECEPTACLE	HUBBELL HBL5352x W/ ARLINGTON TVBS505	VERIFY RECEPTACLE HEIGHTS WITH OWNER
$_{GFI}$	GROUND FAULT RECEPTACLE	HUBBELL GFRST20x	SELF TESTING PER UL 943
$_{WR}$ $_{GFI}$	GROUND FAULT, WEATHER RESIST RECEPT.	HUBBELL GFTWRST20x W/"IN USE" COVER	SELF TESTING PER UL 943
$_{CLG}$	CEILING RECEPTACLE	–	–
$_{S}$	SPECIAL RECEPTACLE	–	COORDINATE WITH EQUIPMENT
8	DOUBLE DUPLEX RECEPTACLE	HUBBELL (2) HBL5352x	–
XX–YY	XX=PANEL YY=CIRCUIT IDENTIFIER	–	–
GND	GROUND BAR	–	SEE DRAWING DETAILS
	DATA/PHONE OUTLET	–	DOUBLE GANG UNO
W.A.P.	WIRELESS ACCESS POINT ANTENNA	–	SINGLE GANG WITH 1–CAT6 INSTALLED IN CLG UNO
CR	DOOR CARD READER	–	SEE SECURITY DOOR DETAILS

NOTES:
1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C.
3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.
4. PROVIDE LOW VOLTAGE OCCUPANCY SENSORS WITH POWER PACKS AS REQUIRED.

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	℄	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

(1)



NOTES:
1. CONFIRM FINAL LOCATION OF POWER AND CONTROL CONDUITS WITH MANUFACTURER DATA PRIOR TO INSTALLATION.
2. MAINTAIN MINIMUM 48" SPACING AROUND GENERATOR ENCLOSURE AREA FOR REFUELING AND FUTURE SERVICE REQUIREMENTS.
3. PROVIDE 4/0 AWG BARE COPPER GROUND RING 24" FROM EDGE OF GENERATOR PAD BURIED 30" BELOW GRADE. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD AT EACH CORNER OF GENERATOR PAD AND EXOTHERMICALLY WELDED TO THE COPPER RING. PROVIDE MINIMUM 36" PIGTAIL THROUGH PAD FOR CONNECTION TO THE GENERATOR FRAME. PROVIDE 4/0 BARE COPPER CONDUCTOR FROM THE COPPER RING TO EITHER THE BUILDING GROUND OR MAIN ELECTRICAL SERVICE GROUND BUS.
4. PROVIDE MINIMUM 2" CONCRETE COVER FOR TOP REBAR AND 3" COVER TO EARTH FOR LOWER LEVEL OF REBAR.
5. IF UNSUITABLE MATERIAL IS ENCOUNTERED, REMOVE ALL UNSUITABLE MATERIAL FROM BELOW THE PROPOSED SLAB AND BASE, AND PLACE COMPACTED STRUCTURAL FILL MATERIAL TO THE BOTTOM OF GRAVEL BASE LAYER. ALTERNATELY, REMOVE ALL UNSUITABLE MATERIAL AND REPLACE WITH COMPACTED GRAVEL

(1) GENERATOR CONCRETE PAD INSTALLATION DETAIL
N.T.S.

WALKER GROUP ARCHITECTURE
incorporated
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No.	Date	
1	03/23/2026	ADDENDUM 01

Project Number 2523.JCPW | Date 2/27/26
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ELECTRICAL SCHEDULES

Sheet Number 6 Of 7
Drawing Number **E-302**