

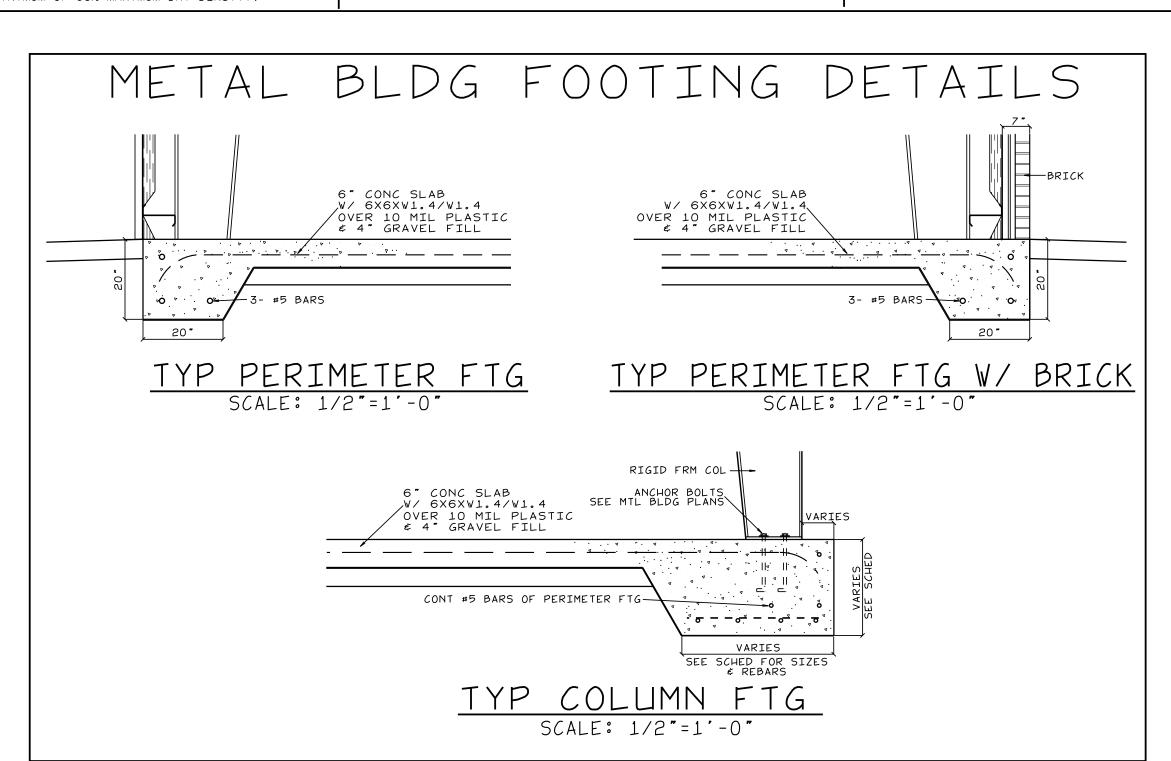
BUILDING CODE SUMMARY SHEET							
<section-header></section-header>						Harnett NORTH CAROLINA Roger Sullivan	
<section-header></section-header>	CIAL TRUC	K RE		GAR	AGE		
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Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	PROJECT NAME: JOHN HIESTER CHEVROLET DDRESS: 105 W CORNELIUS HARNETT BLVD, LILLINGTON, NC PROPOSED USE: COMMERCIAL TRUCK REPAIR GARAGE D ADDITION	DE FOR:	FIRE RESISTANCE RATINGS:	RATING DETAIL #		LINDEX TO DRAWINGS	
NUME Description Description <thdescription< th=""> <t< td=""><td>ER/CONTACT PERSON: BREIT STRICKLAND PHONE NO: 919-805-0664 UPFIT E-MAIL: bretts@si-nc.com UPFIT NED BY: IPRIVATE CITY/COUNTY STATE DE ENFORCEMENT JURISDICTION: LILLINGTON EXISTING BUILDIN SIGNER: FIRM NAME NAME LICENSE # I LDING SMITH ENGINEERING & DESIGN J.T. SMITH, JR</td><td><u>ELEPHONE #</u><u>E-MAIL</u>)-736-2141_smithengineeringnc@hotmoi</td><td>STRUCTURAL FRAME including columns, girders, trusses BEARING WALLS EXTERIOR North NA East NA West NA iil.com South NA</td><td> · · · · · · · · · · · · · · · · ·</td><td>ASSEMBLY PENETRATION JOINTS</td><td>STRUCTURAL</td><td></td></t<></thdescription<>	ER/CONTACT PERSON: BREIT STRICKLAND PHONE NO: 919-805-0664 UPFIT E-MAIL: bretts@si-nc.com UPFIT NED BY: IPRIVATE CITY/COUNTY STATE DE ENFORCEMENT JURISDICTION: LILLINGTON EXISTING BUILDIN SIGNER: FIRM NAME NAME LICENSE # I LDING SMITH ENGINEERING & DESIGN J.T. SMITH, JR	<u>ELEPHONE #</u> <u>E-MAIL</u>)-736-2141_smithengineeringnc@hotmoi	STRUCTURAL FRAME including columns, girders, trusses BEARING WALLS EXTERIOR North NA East NA West NA iil.com South NA	· · · · · · · · · · · · · · · · ·	ASSEMBLY PENETRATION JOINTS	STRUCTURAL	
ULUBIS DATA: Distance	IMBINGSMITH ENGINEERING & DESIGNJ.T. SMITH, JR24916(91CHANICALSMITH ENGINEERING & DESIGNJ.T. SMITH, JR24916(91INDATIONSSMITH ENGINEERING & DESIGNJ.T. SMITH, JR24916(91INKLER-STANDPIPENAJ.T. SMITH, JR24916(91E ALARMNANUCOR CORPORATIONRAJESH H BHAGNARI24064(70	1)-736-2141 smithengineeringnc@hotmai 1)-736-2141 smithengineeringnc@hotmai 1)-736-2141 smithengineeringnc@hotmai 1)-736-2141 smithengineeringnc@hotmai	NON-BEARING WALLS EXTERIOR NOrth 0'+ <	0 HR 0 HR 0 HR 0 HR 0 HR 0 HR 0 HR 0 HR			
Dire information: Dires prod Trace diversity in the diversity in	CUPANCY: S-1 STORAGE NSTRUCTION TYPE: DI-A DI-B DII-A DIII-A DIII-B DIV D XED CONSTRUCTION? DYES DNO TYPE: <u>NA</u> RINKLERS: DYES DPARTIAL DNO DNFPA 13 DNFPA 13R DNF		COLUMNS SUPPORTING FLOORS ROOF CONSTRUCTION incl supporting beams & joists () ROOF CEILING ASSEMBLY () COLUMNS SUPPORTING ROOFS () SHAFTS - exit ()	NA O HR O HR 0 HR 0 HR O HR 0 HR 0 HR O INA 0 HR 0 HR O INA			
Summing NA	E DISTRICT:YES XNO FLOOD HAZARD AREA:YES XNO DING HEIGHT: <u>21 FT</u> NO. OF STORIES: <u>1</u> UNLIMITED PER ZANINE:YES XNO CIAL INSPECTIONS:YES XNO DSS BUILDING AREA:		CORRIDOR SEPARATION OCCUPANCY/FIRE BARRIER SEPARATION PARTY/FIRE WALL SEPARATION SMOKE BARRIER SEPARATION TENANT SEPARATION INCIDENTAL USE SEPARATION	NA NA NA NA NA		M-1 HVAC/GAS PLAN	
LOWABLE AREA: MARY OCCESSORY USE: \$ OF FLOOR AREA: MARY OCCESSORY USE: \$ OF FLOOR AREA: MARY OCCESSORY USE: \$ OF FLOOR AREA: DICINAL USE: \$ SECOLAL USE: CICLA, PORVISIONS: \$ SECOLAL USE: CICLA, SECOLAR USE: \$ SECOLAL USE:<	SEMENTNANAT FLOORNA4911 SFZZANINENANAD FLOORNANAD FLOORNANA	EMERGENCY LIGHTING YES SMOKE DETECTION SYSTEM YES	REQUIREMENTS: NO EXIT LIGHTING ⊠YES □NO FIRE ALARM □YES ES ⊠NO □ PARTIAL CARBON MONOXIDE DETECTION ⊠YES	DESIGN LOADS	S: SNOW $(I_S) \underline{1.0}$ SEISMIC $(I_E) \underline{1.0}$ ROOF 20 PSF	E-1 POWER PLAN	
STORY # DESCRIPTION BLOG AREA TABLE 506.2 AREA FOR ALLOWABLE SPRINCLER AFOR ALLOWABLE AREA PER MICLES AREA FOR ALLOWABLE SPRINCLES AREA FOR ALLOWABLE TO PER STORY AREA FOR ALLOWABLE SPRINCLES AREA FOR ALLOWABLE TO PER STORY AREA FOR ALLOWABLE	IMARY OCCUPANCY: <u>S-1</u> ACCESSORY USE: % OF FLOOR AREA: CIDENTAL USES: SPECIAL USES: ECIAL PROVISIONS: XED OCCUPANCY: XINO YES SEPARATION: EXCEPTION: NON-SEPARATED MIXED OCCUPANCY	 Fire and/or smoke rated y Assumed and real propert Exterior wall opening ar Occupancy Use for each a Occupant loads for each Exit access travel dista Common path of travel di Dead end lengths (1020.4 X Clegr exit widths for each 	ty line locations (on the site plan) rea with respect to distance to assumed property lines area as it relates to occupant load calculation (Table area ances (1017) istances (Tables 1006.2.1 & 1006.3.2(1)) 4) ach exit door	(705.8) 1004.1.2) GROUND SNOW LOADS WIND LOADS: ULTIN EXF SEISMEIC DESIGN	: <u>15 PSF</u> MATE WIND SPEED <u>115 MPH</u> (ASCE-7) POSURE CATEGORY <u>B</u> CATEGORY A XB C D	C101.2 Scope. This code applies to <i>commercial buildings</i> and the buildings' sites and associated systems and equip-	
LLOWABLE HEIGHT: ALLOWABLE FOR SPRINKLERS SHOWN ON PLANS CODE REFERENCE ALLOWABLE FOR SPRINKLERS SHOWN ON PLANS CODE REFERENCE BLDG HT IN FEET 55 FT NA 21 FT Note any code exceptions or table notes that may have been utilized regarding the items above Moment Frame Inverted Pendulum ALLOWABLE FOR SPRINKLERS SHOWN ON PLANS CODE REFERENCE Mote any code exceptions or table notes that may have been utilized regarding the items above ANALYSIS PROCEDURE Simplified Modal BLDG HT IN STORIES 1 1 Mote any code exceptions or table notes that may have been utilized regarding the items above ACCESSIBLE PARKING: BY OTHERS Mote any code exceptions or table notes that may have been utilized regarding the items above ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? NO DEDG HT IN STORIES 1 TOTAL # PARKING SPACES TOTAL # ACCESSIBLE # ACCESSIBLE SPACES PROVIDED ACCESSIBLE TOTAL # ACCESSIBLE SPACES PROVIDED ACCESSIBLE # ACCESSIBLE ACCESSIB	STORY # DESCRIPTION BLDG AREA TABLE 506.2 AREA FOR AREA FOR ALLOWAB & USE (ACTUAL) AREA OPEN SPACE SPRINKLER AREA PER S INCREASE OR UNLIMI	Image: E Image: E CORY Image: E CORY Is provided for purposes IED Image: E SF Image: E Image: E Image: E Image: E	r each exit door in indicating where fire rated floor/ceiling and/or roof is of occupacy separation panic hardware (1010.1.10) delayed egress locks and the amount of delay (1010.1.9. electromagnetic egress locks (1010.1.9.9) ped with hold-open devices scape windows (1030)	structure SPECTRAL RESPONSE SITE CLASSIFICATIO .7) BASIC STRUCTURAL S	ACCELERATION S _s <u>16.5 %</u> g S ₁ <u>8.0 %</u> g DN <u>D</u> Field test XPresumptive Historical data SYSTEM	 Per N.C.G.S. 143-138 (b18), no energy conservation code provisions shall apply to any structure for which the primary occupancy classification is Group F, S, or U pursuant to Chapter 3 of the 2018 North Carolina Building Code. This exclusion shall apply 	
	ALLOWABLE FOR SPRINKLERS SHOWN ON PLANS CODE REFERENCE LDG HT IN FEET 55 FT NA 21 FT LDG HT IN STORIES 1 NA 1 PRECENTAGE OF WALL OPENING CALCULATIONS	M The square footage of ea M Note any code exceptions o ACCESSIBLE PARKING TOTAL # PARKING SPACES T	ach smoke compartment for Occupancy Classification I-2 or table notes that may have been utilized regarding the it G: BY OTHERS TOTAL # ACCESSIBLE # ACCESSIBLE SPACES PROVIDED TOTAL # ACCESSIBLE	ANALYSIS PROCEDURE ARCHITECTURAL, MEC LATERAL DESIGN SOIL BEARING CA	E Modal SimplifiedModal MEquivalent Lateral Force CHANICAL, COMPONENTS ANCHORED?NO CONTROL: EARTHQUAKEWIND X		

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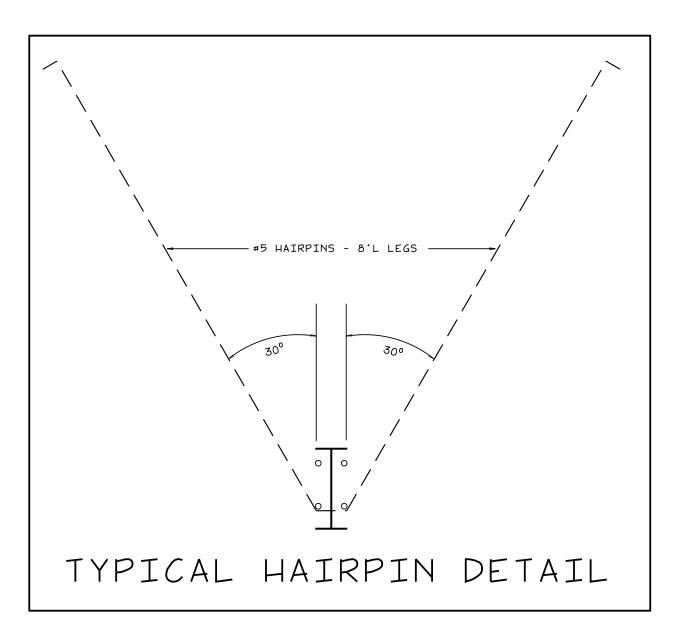
STRUCTURAL NOTES GENERAL CONCRETE THESE DRAWINGS ARE TO BE COORDINATED WITH THE GENERAL CONSTR, REINFORCED CONCRETE WORK SHALL COMPLY WITH BOTH MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS. "SPECIFICATIONS FOR STRUCTURAL BUILDINGS" ACI 301 AND THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318 APPLICABLE SECTIONS OF THE CURRENT BUILDING CODE. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R. MISCELLANEOUS DURING HOT WEATHER THE CONTROL OF CONCRETE PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 305R. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING, AND GUYING OF FRAMING AND WALLS AGAINST WIND, WHEN THE MEAN DAILY TEMPERATURE IS BELOW 40 DEGREES F THE CONSTRUCTION LOADS, AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF CONTROL OF PLACEMENT, PROTECTION AND CURING SHALL COMPLY W/ ACI 306R. THE FRAMING. CONCRETE SHALL HAVE NORMAL WEIGHT AGGREGATE AND A MINIMUM THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DIMENSIONS OF THE STRUCTURAL DRAWINGS AND ADVISING THE COMPRESSIVE STRENGTH (Fc) AT 28 DAYS AS LISTED BELOW. 3000 PSI NO FLYASH ARCHITECT OF ANY DIFFERENCES IN DIMENSIONS BETWEEN THE 5.1 FOOTINGS CONSTRUCTION PLANS AND SECTIONS PRIOR TO COMMENCING 5.2 SLABS-ON-GRADE 3000 PSI CONSTRUCTION. ENTRAINED AIR MUST BE USED IN ALL CONCRETE THAT WILL BE CONSTRUCTION SAFETY: THESE STRUCTURAL DRAWINGS DO NOT EXPOSED TO FREEZING AND THAWING AND DEICING CHEMICALS. CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION. AMOUNT OF AIR ENTRAINMENT (PERCENT) SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE WITH A RANGE OF -1 TO +2 FOUNDATIONS PERCENTAGE POINTS OF THE TARGET VALUE: FOOTINGS 6.1 6.2 INTERIOR SLABS 0%, SEE NOTE BELOW THE STRUCTURAL ENGINEER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. THE FOOTINGS ARE BASED UPON AN ASSUMED SOIL 6.3 EXTERIOR SLABS 5% NOTE: IT IS RECOMMENDED THAT INTERIOR SLABS TO BE GIVEN A BEARING CAPACITY OF 2000 PSF NET BEARING. VERIFICATION OF THIS ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR SMOOTH, DENSE, HARD-TROWELED FINISH NOT TO CONTAIN ENTRAINED CONTRACTOR. SHOULD ANY ADVERS SOLL CONDITIONS BE ENCOUNTERED, THE STRUCTURAL ENGINEER MUST BE CONTACTED BEFORE PROCEEDING. AIR SINCE BLISTERING OR DELAMINATION MAY OCCUR. IF THE SLAE WILL BE EXPOSED TO DEICING OR OTHER AGGRESSIVE CHEMICALS, CONTACT STRUCTURAL ENGINEER FOR PROPER AIR ENTRAINMENT THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST REQUIREMENTS. LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE

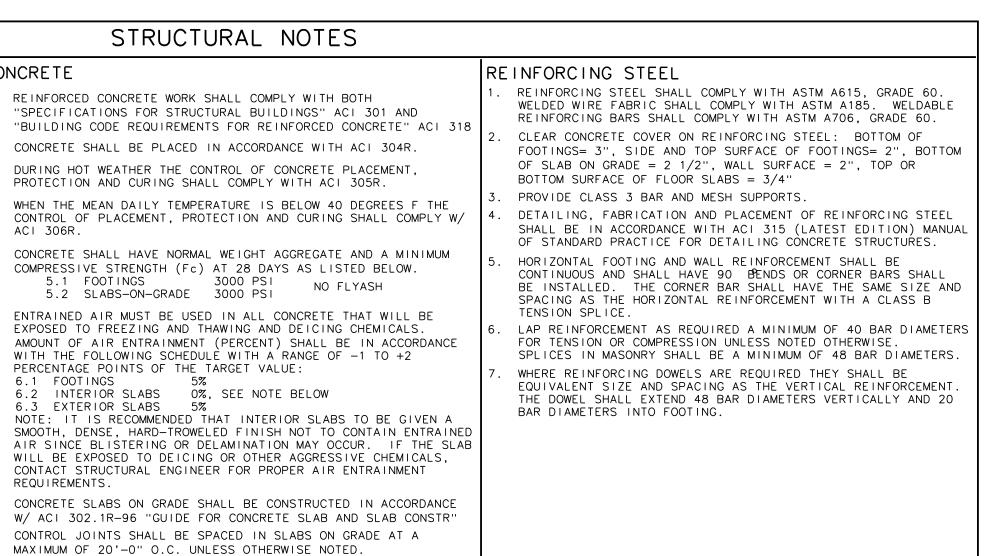
ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.

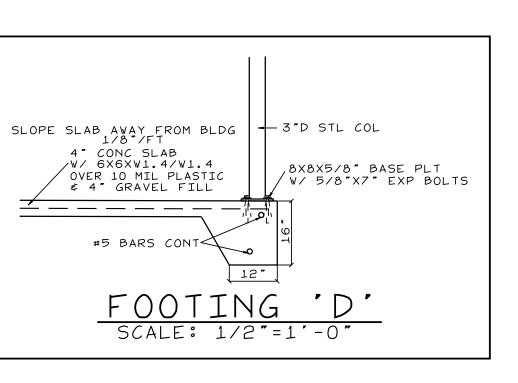
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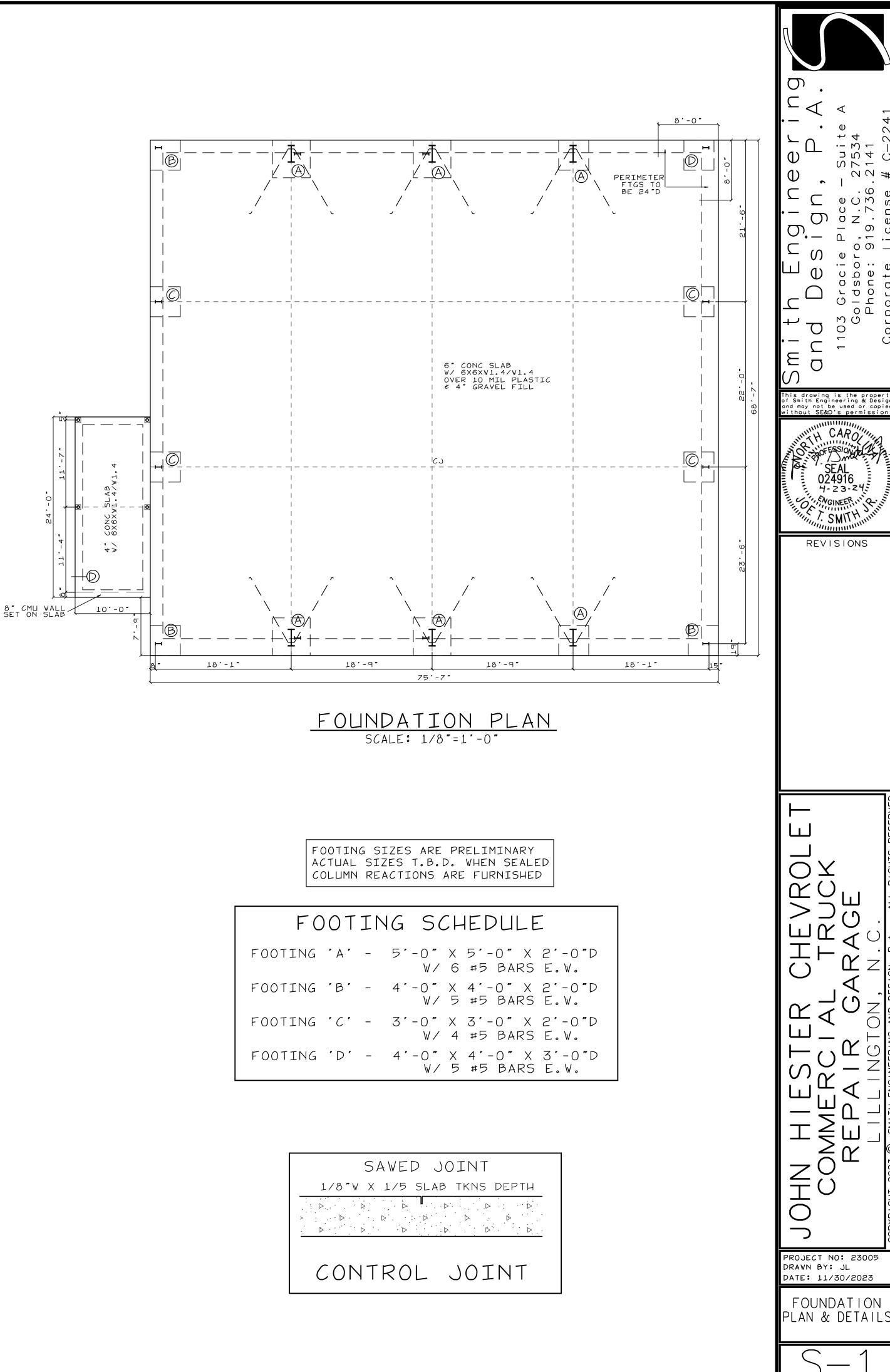


MAXIMUM OF 20'-0" O.C. UNLESS OTHERWISE NOTED.

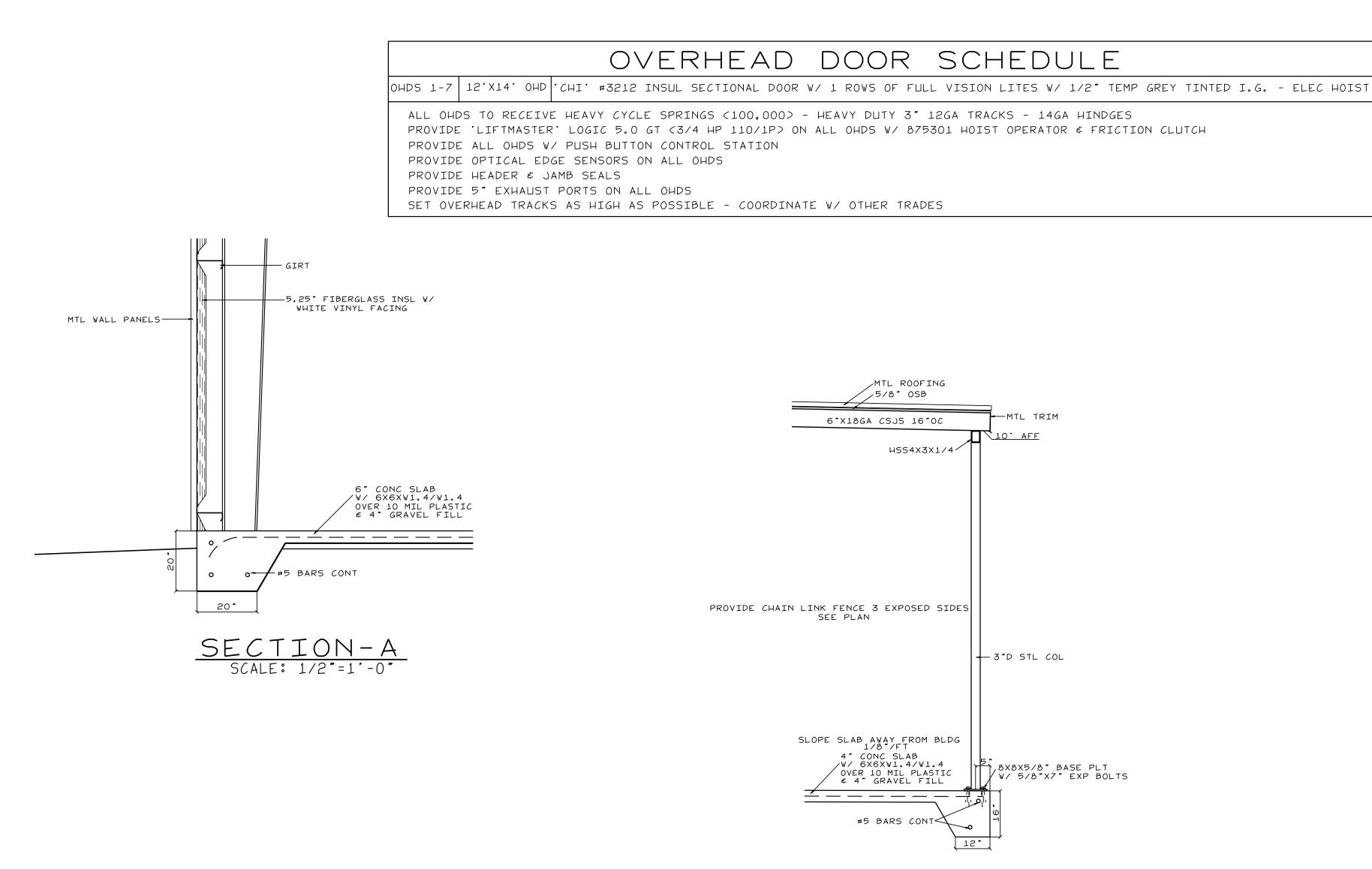


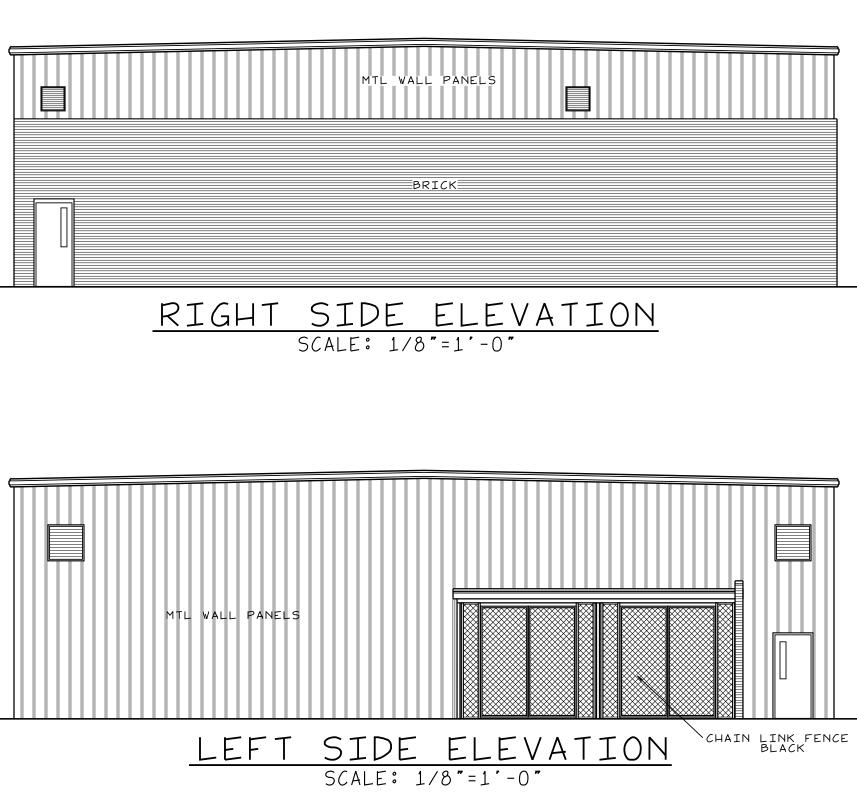






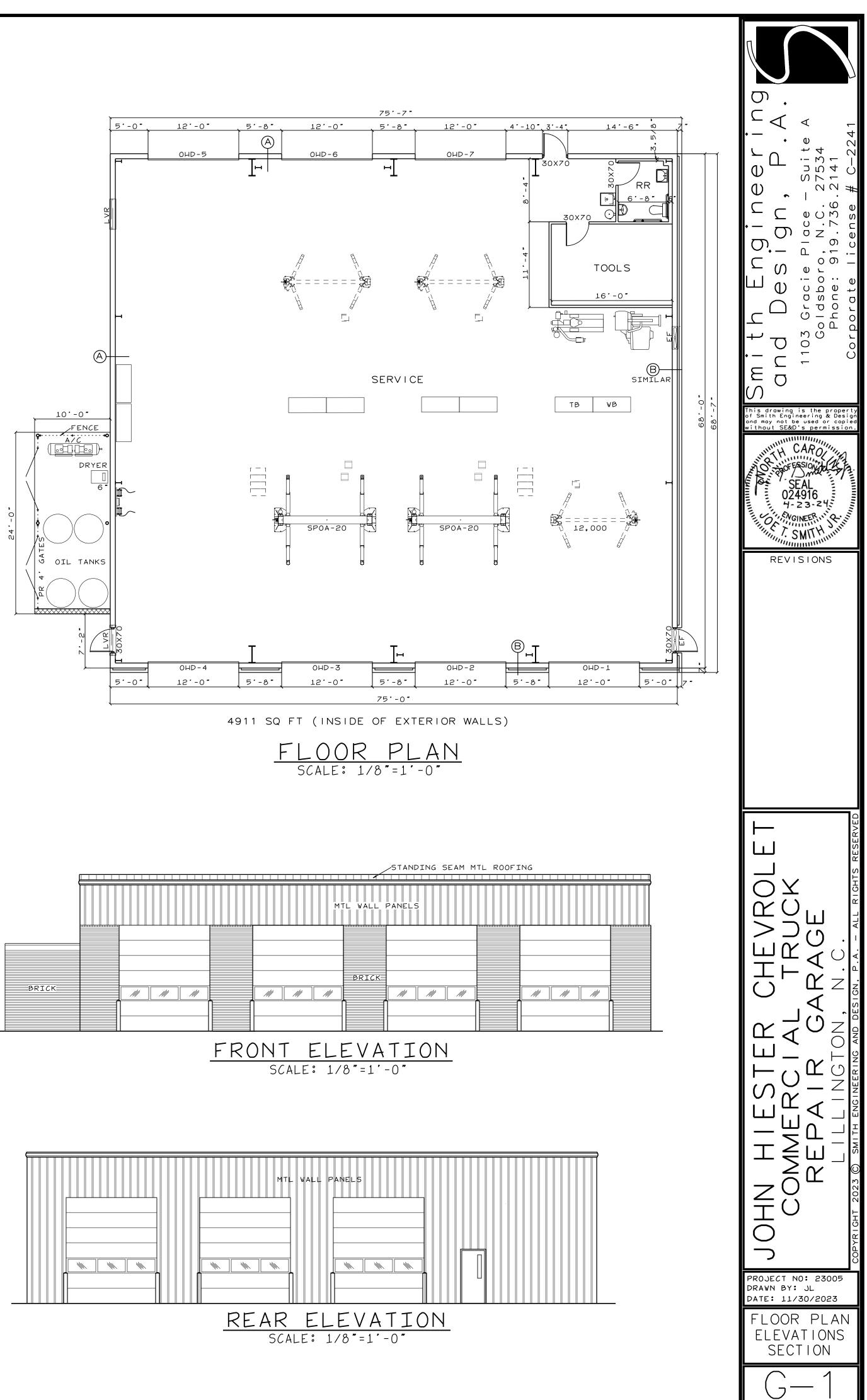
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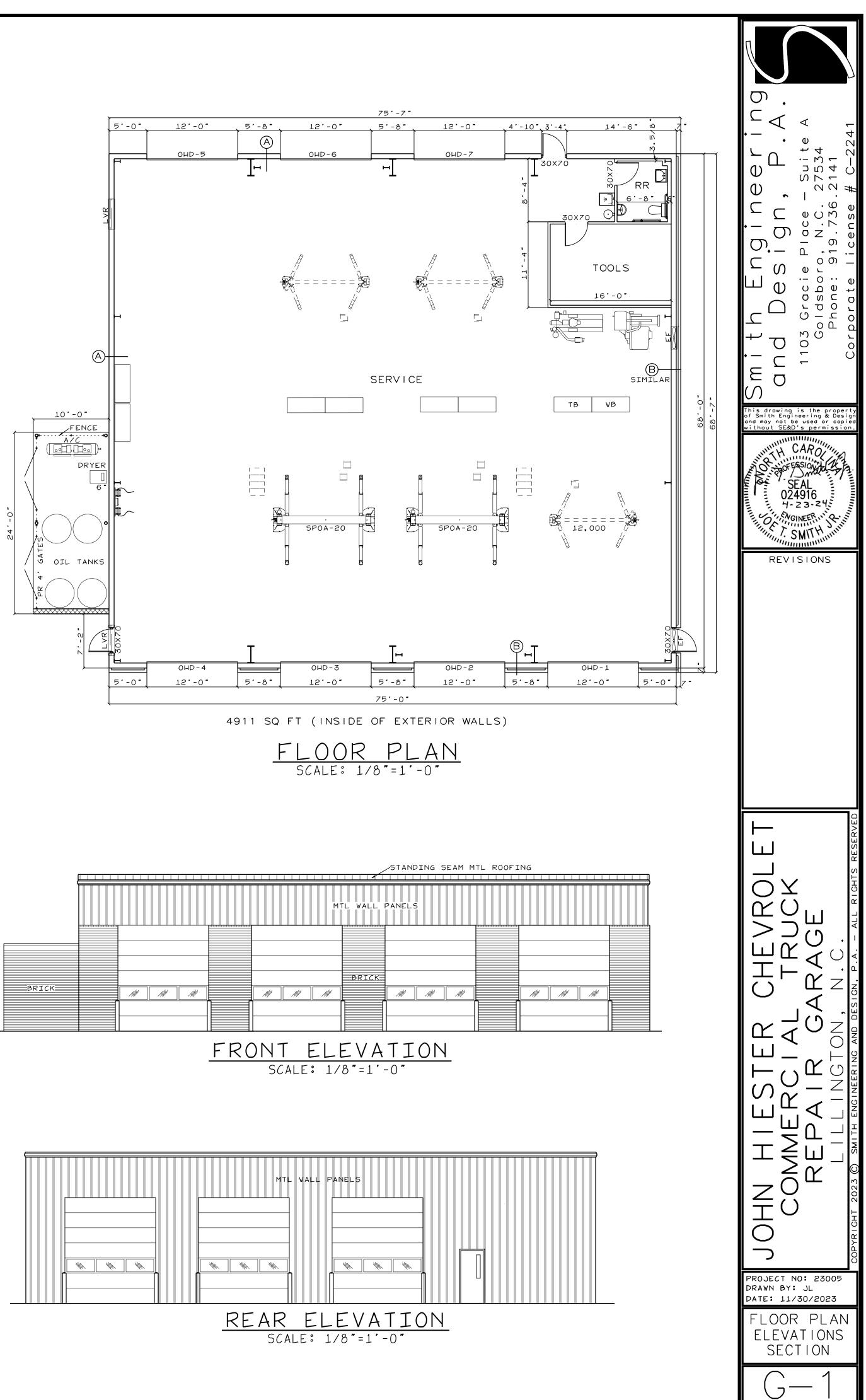


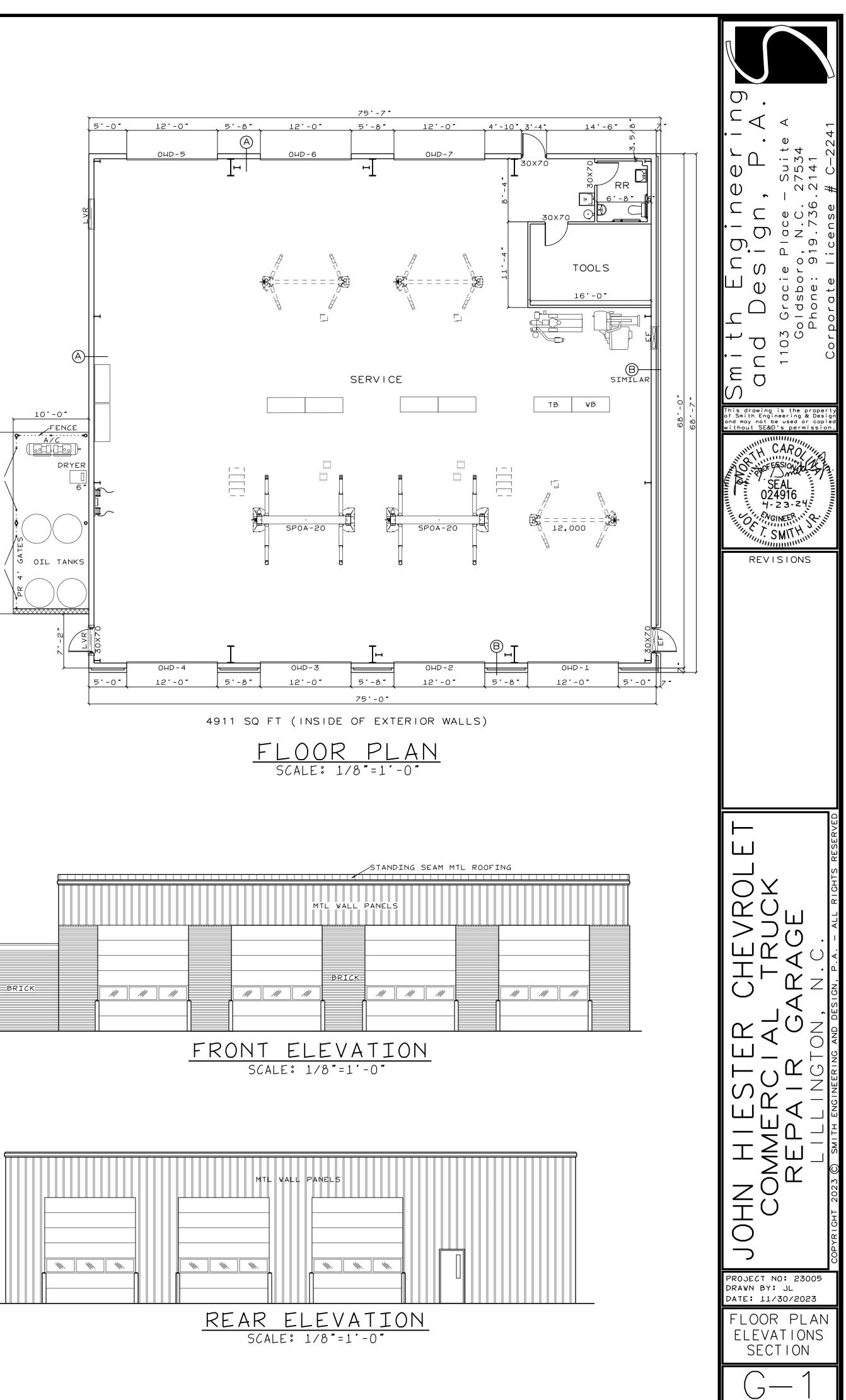


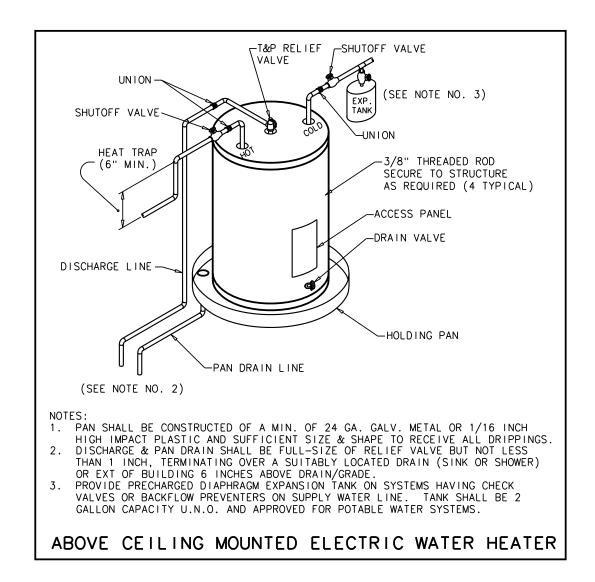












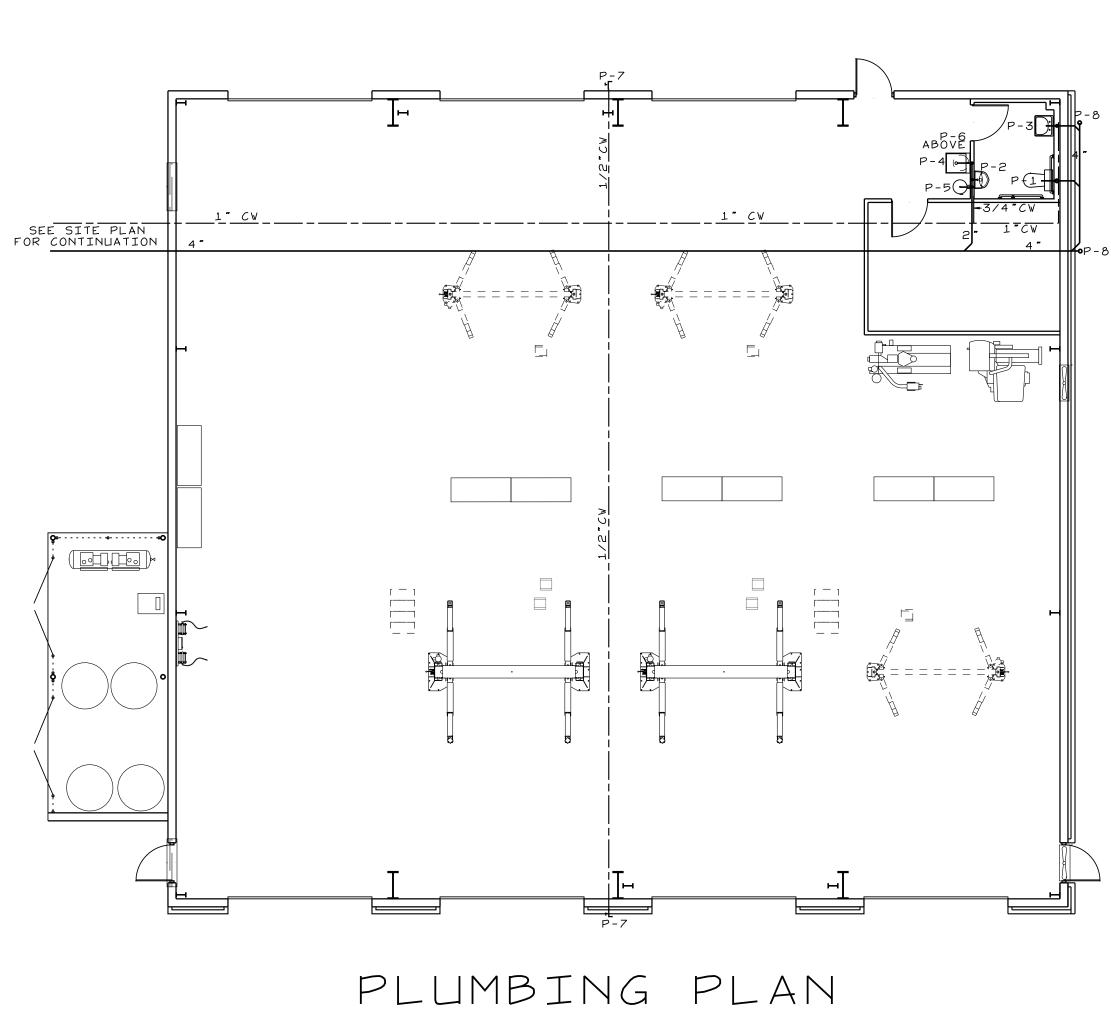
	PLUMBING NOTES
1.	PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. ALL WORK TO MEET 2018 NCSPC.
2.	CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
3.	COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES. P.C. SHALL EXTEND WATER SUPPLY LINE 5-FEET OUTSIDE OF BUILDING AND EXTEND BUILDING DRAIN 10-FEET OUTSIDE OF BUILDING & PROVIDE 2-WAY CLEANOUT.
4.	COORDINATE ROOF VENT LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 10 FEET.
5.	COORDINATE INSTALLATION OF PLUMBING LINES WITH BLOCK WALLS SO THAT ALL LINES ARE PLACED WITHIN WALLS DURING WALL CONSTRUCTION. CUTTING AND PATCHING OF WALLS IN PLACE IS NOT PERMITTED.
6.	ALL WORK SHALL COMPLY WITH LOCAL, STATE & ADA CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
7.	PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
8.	DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 1784, SOLID-WALL, SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT-WELDED JOINTS. FOAM CORE PIPING IS NOT ACCEPTABLE.
9.	ABOVE GRADE WATER PIPING SHALL BE ASTM F 877 CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING.
10.	
11.	
12.	
13.	DOMESTIC HOT WATER, HOT WATER RETURN & COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS AND FOIL & PAPER JACKET AS FOLLOWS: RUNOUTS 3/4" OR LESS: 1/2" THICK PIPING 3/4" TO 2": 1" THICK PIPING 2 1/2" & LARGER: 1 1/2" THICK ALL HWR PIPING: 1" THICK
14.	WATER PIPING ON OUTSIDE WALLS AND IN CEILING SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
15.	PROVIDE SHUTOFF VALVES AT EACH MAIN BRANCH LINE. VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. PROVIDE CEILING ACCESS DOORS WHERE REQUIRED TO ACCESS SERVICABLE VALVES LOCATED ABOVE GYPBOARD CEILINGS.
16.	PIPING PASSING THROUGH CONCRETE/MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
17.	INSTALL SCHEDULE 40 PIPE SLEEVE TWO SIZES LARGER AT PENETRATIONS THROUGH FOUNDATION WALLS. SEAL SLEEVE TIGHT TO FOUNDATION WALL.
18.	INSTALL UL LISTED FIRE SEAL AT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS AND CEILINGS.
19.	PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P-TRAP ASSEMBLIES AND HOT & COLD WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
20.	VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
21.	INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
22.	INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
23.	ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
24.	DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE.
	ALL PENETRATIONS OF EXTERIOR WALLS, ROOFS & CEILINGS SHALL BE SEALED TO PREVENT AIR INFILTRATION.
	PROVIDE P-TRAPS AN ALL FLOOR DRAINS. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF
	1-YEAR AFTER DATE OF ACCEPTANCE. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE WATER & SEWER SYSTEM. THE PLUMBING CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BIDDING IF UNABLE TO PROVIDE A COMPLETE SYSTEM DUE TO CONFLICTS, ERRORS, OR OMMISSIONS. FURTHER, IF THERE ARE CONFLICTS W/ LOCAL, STATE OR NATIONAL CODES, SUCH CODES SHALL

PLUMBING FIXTURE CONNECTION SCHEDULE										
FIXTURE TYPE CW HW WASTE VENT										
WATER CLOSET	1 "		3″	2″						
URINAL	3/4 <i>"</i>		2″	1 1/2"						
SINK	1/2"	1/2"	2″	1 1/2"						
UTILITY SINK	1/2"	1/2"	2″	1 1/2"						
VATER HEATER	3/4″	3/4 ″								
HOSE BIBB	1/2"									

HAVE PRECEDENCE OVER THE PLANS & SPECS, AND THE PLUMBING CONTRACTOR SHALL NOTIFY

ENGINEER PRIOR TO BIDDING. ALL NOTIFICATIONS IN WRITING.

ALL FIXTURES TO BE VENTED PER SCHEDULE

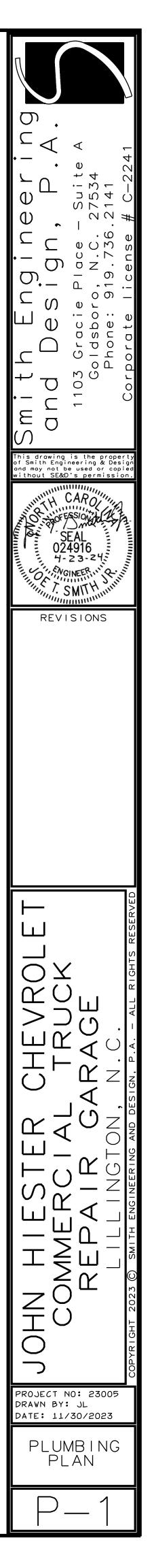


	PI	UMBING	FIXTURE	SCHEDULE
MARK	FIXTURE	MANUFACTURER	CATALOGUE NO.	ACCESSORIES & REMARKS
P-1	WATER CLOSET	AMER STANDARD	2854.111 White	INCLUDES FLUSH VALVE
P-2	URINAL	AMER STANDARD	6590.501	24" RIM HT UNLESS 2 URINALS IN RESTROOM IF 2 - ONE TO BE 17" RIM HT AND ONE TO BE 24"
P-3	VALL SINK	AMER STANDARD	0355.012	DELTA 500-MPU-DST V/ 155A GRID / CP STOPS & TRAP
P-4	UTILITY SINK	GRIFFEN	LT.118.228	W/ FAUCET
P-5	EYE WASH STATION	SPEAKMAN	SE-495	
P-6	VATER HTR	STATE	P6 10 10MSK 1650 W - 120V	1650W/120V - HOLDRITE 40-SWHP-W EQ STAND FLOODSTOP FS 3/4-NPT LEAK ALARM SHUTOFF
P-7	HOSE BIBB	WOODFORD	MOD 65	ANTI-SIPHONING V/ VACUUM BRKR, SELF DRAINING
P-8	CLEAN OUT - GRADE	ZURN	ZN-1403	
P-9				

			PL	UMB	ING	FIXTURE	REQL	JIREMENT	S		
OCCUPANCY	TOTAL		UPANCY %WOMEN		FEMALE	WATER CLOSETS	URINALS	LAVATORIES	SHOWERS/ TUBS		FOUNTAINS ACCESSIBLE
SHOP	10	80	20	8	2	1	0	1	0	0	0

PROVIDED 1 UNISEX RESTROOM

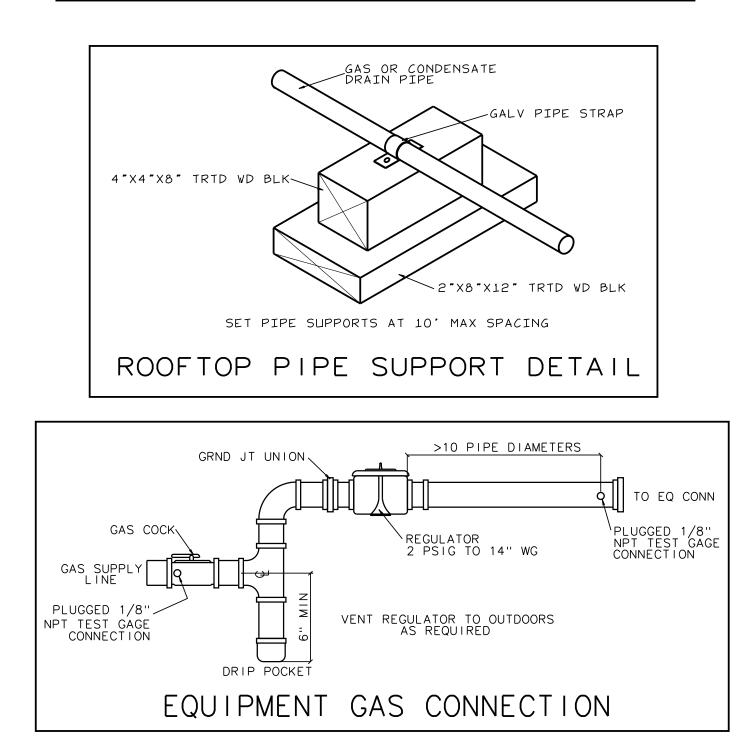
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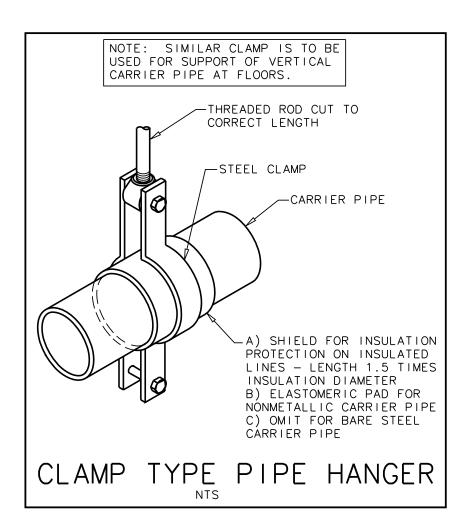


GENERAL NOTES - GAS

- . GAS PIPING SHALL BE A-53 SCHED 40 BLACK STEEL WITH MALLEABLE FITTINGS. PIPING BELOW GRADE SHALL HAVE FRP COATING AND ABOVE GRADE SHALL BE PRIMED AND PAINTED. GROUND ALL GAS PIPING ABOVE GRADE & WITHIN BUILDING. PROVIDE GAS COCK, DRIP LEG AND UNION AT EACH HOOKUP.
- 2. ALL WORK SHALL COMPLY WITH LOCAL AND STATE BUILDING CODES.
- 3. PIPING SHALL BE SUPPORTED IN COMPLIANCE WITH NCSBC-GAS. SUPPORT & SECURE W/ SUITABLE HANGERS, STRAPS OR PIPE STANDS. NO DROOPS OR SAGS. ALL HANGES & ATTACHMENTS TO BE PLATED, GALV OR PAINTED. PROVIDE ISOLATION OF PIPING OF DISSIMILAR MATERIALS. MAX SPACING FOR SUPPORTS TO BE 12'.
- 4. CONTRACTOR TO COORDINATE CONNECTION OF GAS SERVICE W/ GAS COMPANY BEFORE INSTALLATION.
- 5. PROVIDE GAS COCK & REGULATOR AT EACH UNIT

GAS PIPING DESIGN SCHEDULE									
SERVICE TYPE	SYSTEM PRESSURE	PRESSURE DROP	INPUT CA	PACITY					
LP	LP 11.0 IN. W.C. 0.5 IN. W.C. 200 MBH 79 CF								
DEVELOPED LENG	L: SCHED 40 BLK S TH: 91' BRANCH LENGTH ME		REQ'D HEADER S SPACE HTG LOAD WATER HTR LOAD	: 200 MBH					





MECHANICAL NOTES

MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR

PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER ALL WORK SHALL COMPLY WITH LOCAL, STATE & NATIONAL CODES. WORKMANSHIP SHALL

MEET OR EXCEED INDUSTRY STANDARDS. THE M.C. IS RESPONSIBLE FOR COORDINATION OF ALL COMPONETS OF THE SYSTEMS W/ ALL TRADES & BUILDING COMPONENTS. PROVIDE ALL BENDS, OFFSETS, ELBOWS ETC. AS REQUIRED.

FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 2-INCH WC WITH GALVANIZED METAL (26 GAUGE MINIMUM). ALL RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1. X DUCT WIDTH. ALL SQUARÉ ELBOWS & TEES SHALL HAVE TURNING VANES. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY

ALL DUCT JOINTS, SEAMS & BRANCH TAKEOFFS SHALL BE SEALED AIR-TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON-GRIP OR FOIL-GRIP TAPE EQUAL TO HARDCAST AFG-1402. ROUND RUNOUTS SHALL HAVE SPIN-INS WITH DAMPERS, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTORS AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.

FLEX DUCT SHALL HAVE METALIZED VAPOR BARRIER WITH MIN. R-VALUE OF 6.5. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS & IN ACCORDANCE WITH U.L. 181B. ALL BENDS ARE TO BE GREATER OR EQUAL TO ONE DUCT DIAMETER. PROVIDE 1.5" WIDE STAPS AT A MAX OF 4'OC. LIMIT SAG TO 1/2" PER FOOT. MAXIMUM LENGTH TO BE 8'

RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 2-INCH THICK 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER AND A MIN. R-VALUE OF 6.5. STAPLE AND SEAL ALL JOINTS WITH 4-INCH WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF-683 IO. EXPOSED DUCTWORK TO BE INSULATED DOUBLE WALL SPIRAL DUCT W/ PAINT GRIP - PAINT WHITE 11. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION.

CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MFG. CONDENSATE PIPING AND TRAPS SHALL BE SCHEDULE 40 PVC ROUTED TO DRYWELL OR STORM DRAIN. INSULATE INTERIOR PIPING WITH 1/2 INCH THICK UNICELLULAR INSULATION. . REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE 1-INCH THICK MINIMUM.

4. ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILIAR MATERIALS. 5. PIPE INSULATION SHALL BE FIBERGLASS WITH FOIL AND PAPER JACKET. INSULATION ON PIPING 1" & SMALLER SHALL BE 1-INCH THICK; 1 1/4" TO 2" SHALL BE 1 1/2-INCH THICK &

2 1/2" & LARGER SHALL BE 2-INCH THICK. MAINTAIN VAPOR BARRIER ON ALL COLD PIPING. 6. POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.

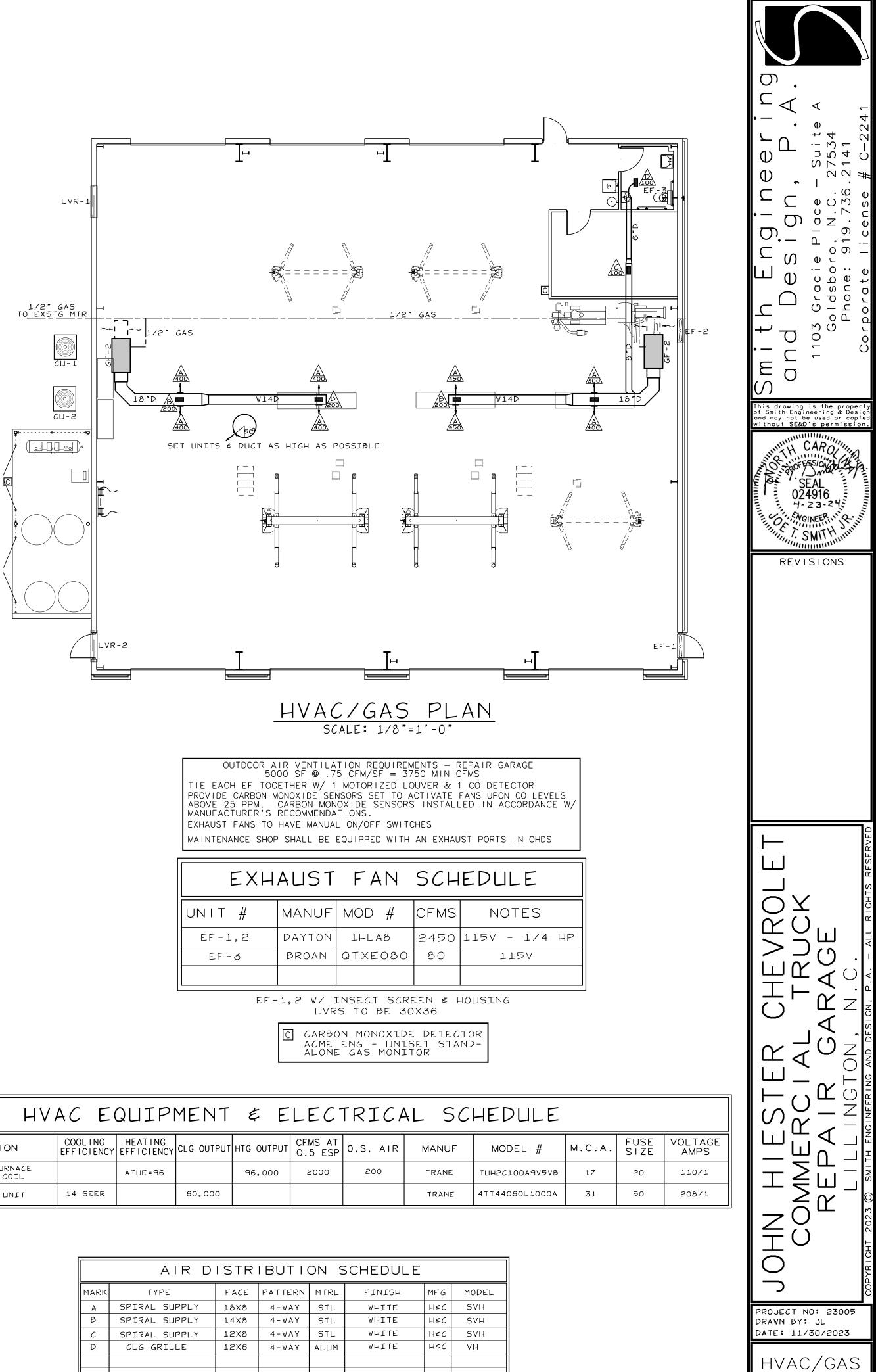
7. CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C. 18. PROVIDE HVAC UNITS W/ HONEYWELL TH8320R1003 VISIONPRO HEAT/COOL DIGITAL THERMOSTAT. 19. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. 20. PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.

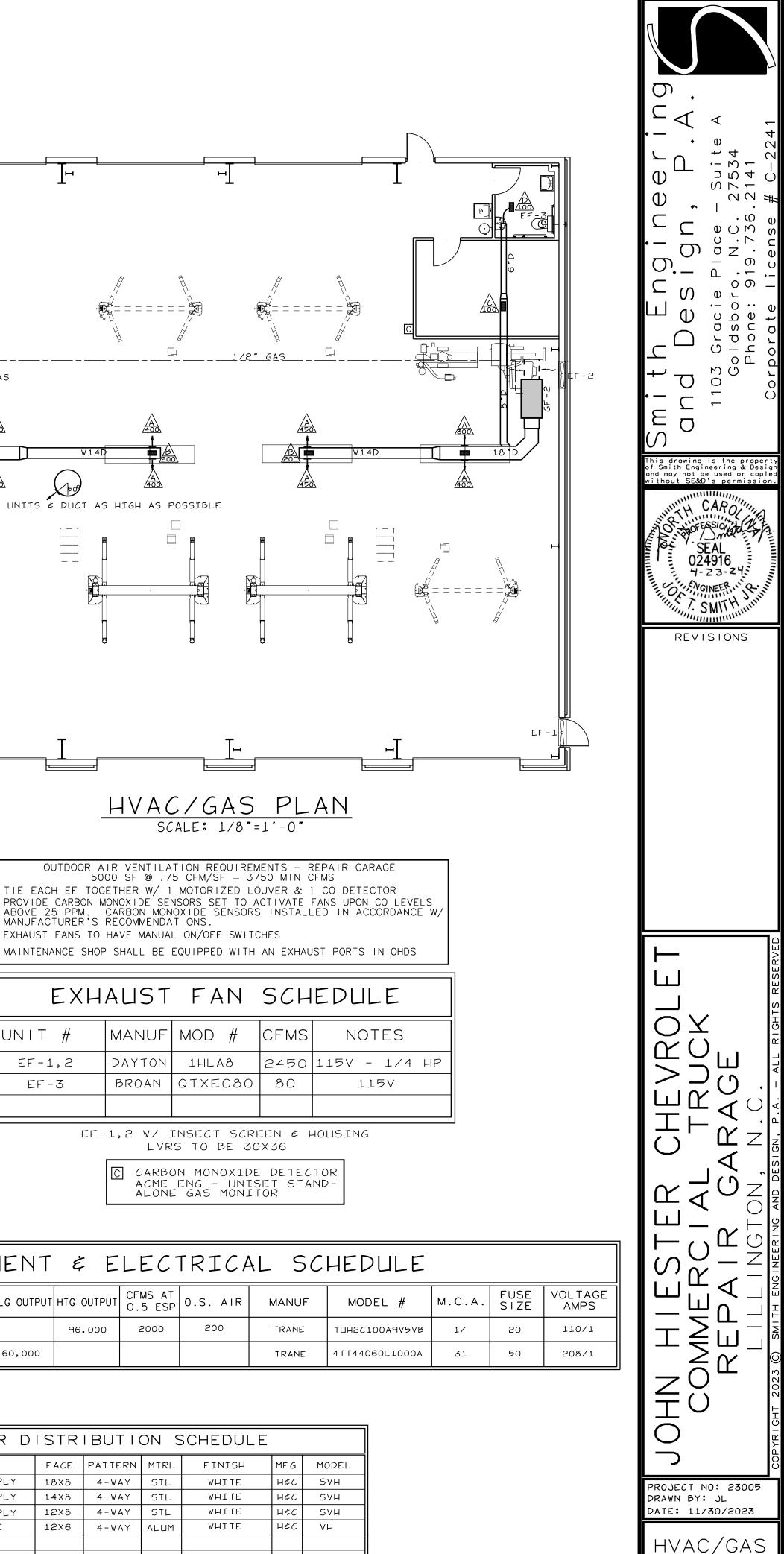
1. CONTRACTOR SHALL BALANCE AIR SYSTEM TO QUANTITIES INDICATED ON PLANS AND PROVIDE TYPE WRITTEN REPORT WITH O&M MANUALS.

22. ALL EQUIPMENT & SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. ALL DUCT SYSTEMS AND AIR HANDLERS SHALL BE VACUUM AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. SYSTEMS THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE CLEANING AGAIN AT THE END OF THE PROJECT. 3. CONTRACTOR SHALL INSTALL A NEW SET OF PLEATED FILTERS BEFORE TURNING BUILDING OVER TO OWNER.

4. CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS. 5. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER DATE OF ACCEPTANCE. EXTENDED GUARANTEES ON EQUIPMENT SHALL BE AS PUBLISHED ON MANUFACTURER'S EXTENDED WARRANTIES.

26. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE HVAC SYSTEM. THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING IF UNABLE TO PROVIDE A COMPLETE SYSTEM DUE TO CONFLICTS, ERRORS, OR OMMISIONS. IF THERE ARE CONFLICTS W/ LOCAL, STATE OR NATIONAL CODES, SUCH CODES SHALL HAVE PRECEDENCE OVER THE PLANS & SPECS & THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BIDDING. ALL NOTIFICATIONS IN WRITING.





PLAN

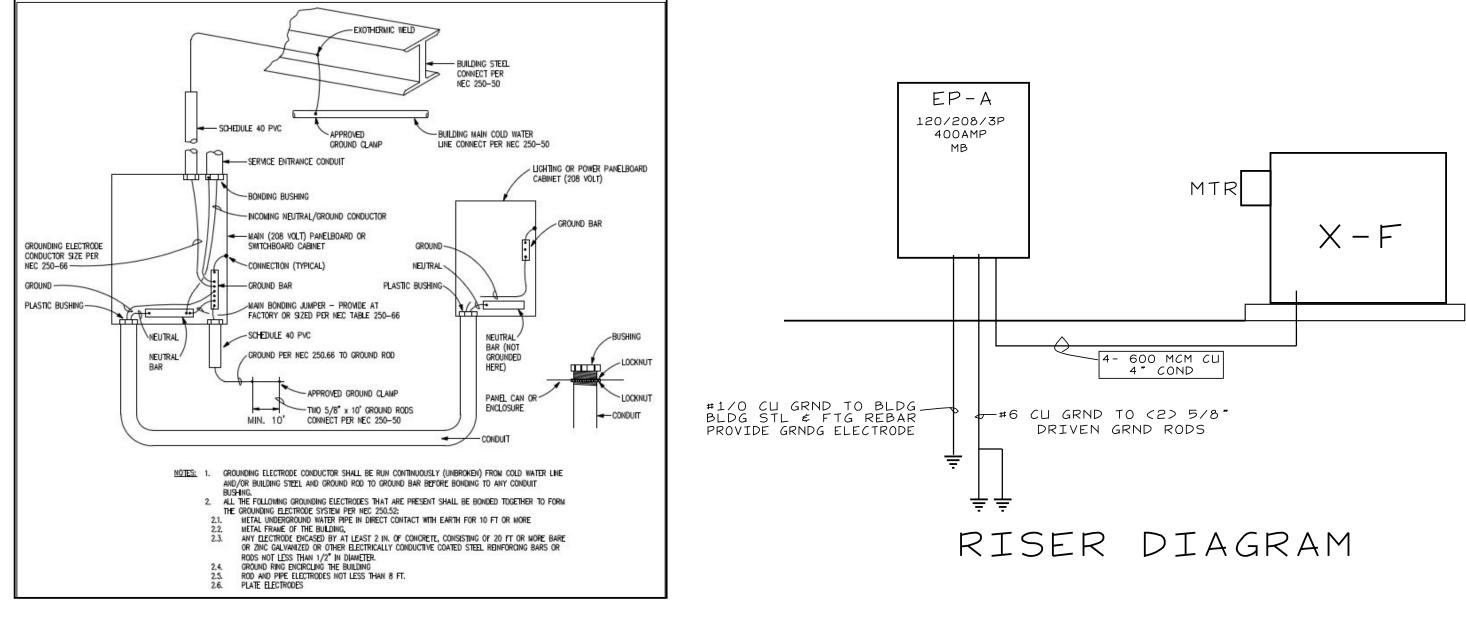
	HVAC EQUIPMEN											
UNIT #	DESCRIPTION	COOLING EFFICIENCY	HEATING EFFICIENCY	CLG OUTP								
GF-1,2	5 TON GAS FURNACE V/ COOLING COIL		AFUE=96									
СЦ-1,2	5 TON COND UNIT	14 SEER		60,000								
VENT GES	THRU VALL											

VENT GFS THRU VALL

	AIR D
MARK	TYPE
A	SPIRAL SUPPLY
В	SPIRAL SUPPLY
С	SPIRAL SUPPLY
D	CLG GRILLE

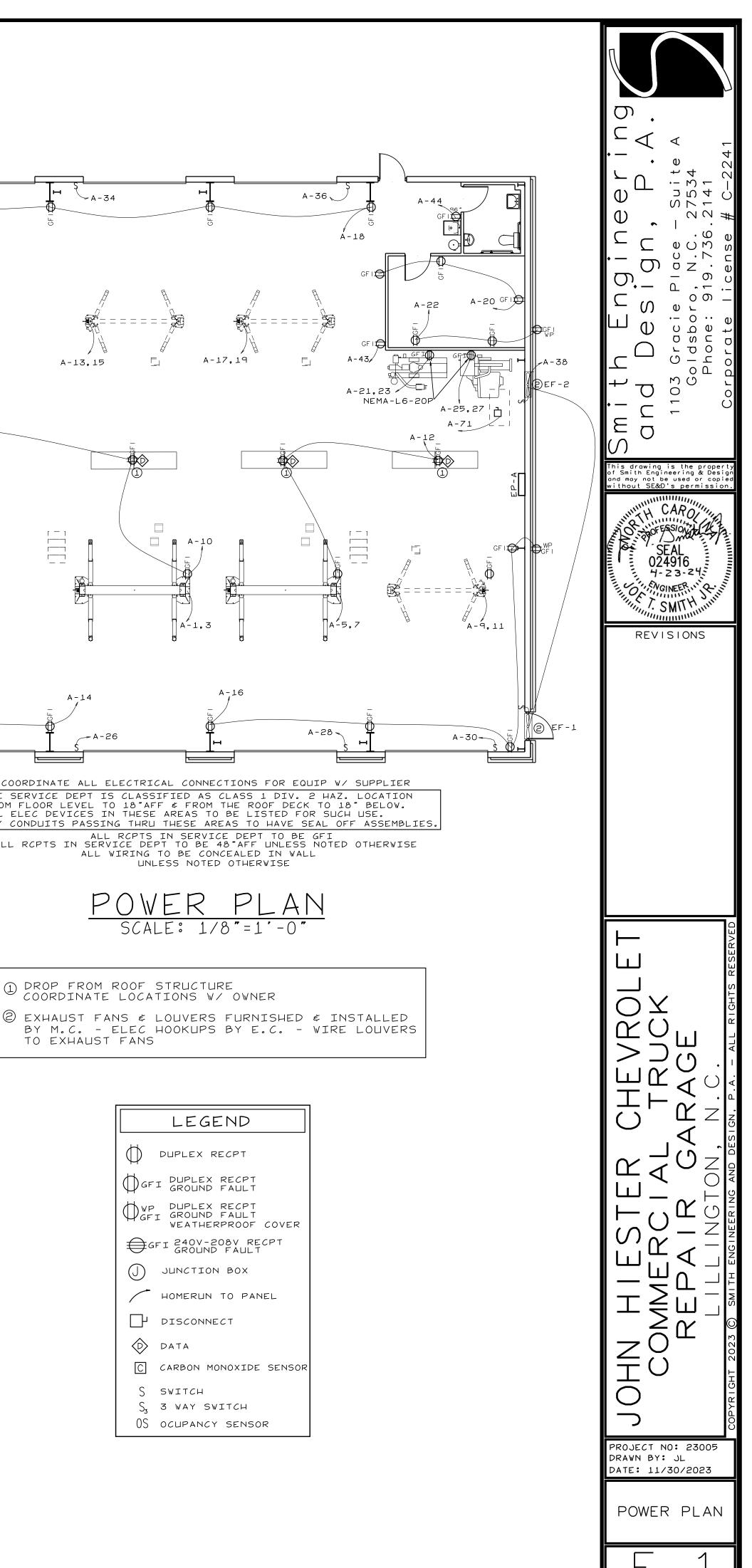
						$A \land$	1El		\triangle	+				
POLES	AMP RATE	VIRE SIZE	BRANCH CIRCUIT	VOL T AMPS	СКТ	L-1	L-2	L-3	СКТ	VOLT AMPS	BRANCH CIRCUIT	VIRE SIZE		
2	30	10	LIFT-1	2540	1	3840			2	1300	LGTS- INTERIOR	12	20	1
				2540	3		4040		4	1500	LGTS- INTERIOR	12	20	1
2	30	10	LIFT-2	2540	5			3690	6	1150	LGTS- INTERIOR	12	20	t
				2540	7	3480			8	940	LGTS- EXTERIOR	12	20	1
2	20	12	LIFT-3 - FUTURE	1350	Р		1710		10	360	RCTS- LIFT 1,2	12	20	1
				1350	11			1710	12	360	RCTS- LIFT 3,4	12	20	1
2	20	12	LIFT-4 - FUTURE	1350	13	2250			14	900	RCTS- SHOP/EXT	12	20	1
				1350	15		2250		16	900	RCTS- SHOP/EXT	12	20	1
2	20	12	LIFT-5 - FUTURE	1350	17			2070	18	720	RCTS- SHOP	12	20	1
				1350	19	1890			20	540	RCTS- SHOP/TOOLS	12	20	1
2	20	12	TIRE CHANGER	1670	21		2210		22	540	RCTS- TOOLS/OIL	12	20	1
				1670	23			2990	24	1320	ОНР-1	12	20	1
2	20	12	WHEEL BALANCER	1040	25	2360			26	1320	ОНД-2	12	20	1
				1040	27		2360		28	1320	ОНР-3	12	20	1
3	50	6	AIR COMPRESSOR	6000	29			7320	30	1320	ОНО-4	12	20	1
				6000	31	7320			32	1320	ОНD-5	12	20	1
				6000	33		7320		34	1320	ОНР-6	12	20	1
3	50	6	AIR COMPRESSOR	6000	35			7320	36	1320	0НD-7	12	20	1
				6000	37	7060			38	1060	EF-1¢2 + LVRS	12	20	1
				6000	39		6000		40		SPARE		20	1
1	20	12	DRYER	1080	41			1480	42	400	TANK MONITOR	12	15	1
					43	1650			44	1650	WATER HTR	12	20	1
					45				46					
					47				48					
					49				50					
					51				52					
					53				54					
					55				56					
					57				58					
					59				60					
2	50		CU-1	3230	61	3230			62					
				3230	63		3230		64					
2	50		CU-2	3230	65			3230	66					
				3230	67	3230			68					
1	20	12	GF - 1	1500	69		7300		70	5800	EV CHARGING STATION	6	60	2
1	20	12	GF-2	1500	71			7300	72	5800				
						36310	37050	37110					•	
BUS	5 RA	TING	400A DESCRIPTION	DEI	1AND CTOR	CONNECT	ED DEMAN KVA							
MAI	INS_		400A	12	25%	KVA 4.9	6.2			MTD	X MANUFACTURER			
	.TS_ .SE		3 RECEPT SHOP EQUIP EV CHARGER	6	<u> </u>	61.2	2 39.8	FLUS			MODEL NO.	NQC		
	(SE		4 MOTORS	10	0% 00% 00%	<u> </u>	5 10.3				X EQUAL MFR.	E OR WES	STINGH	10115
	COPF	PER B	USES VATER HTR	1(0%	1.7	1.7) BAI	R	X			
	COPPE		UTRALS DIVERSIFIED		D =		2.9 AMPS							

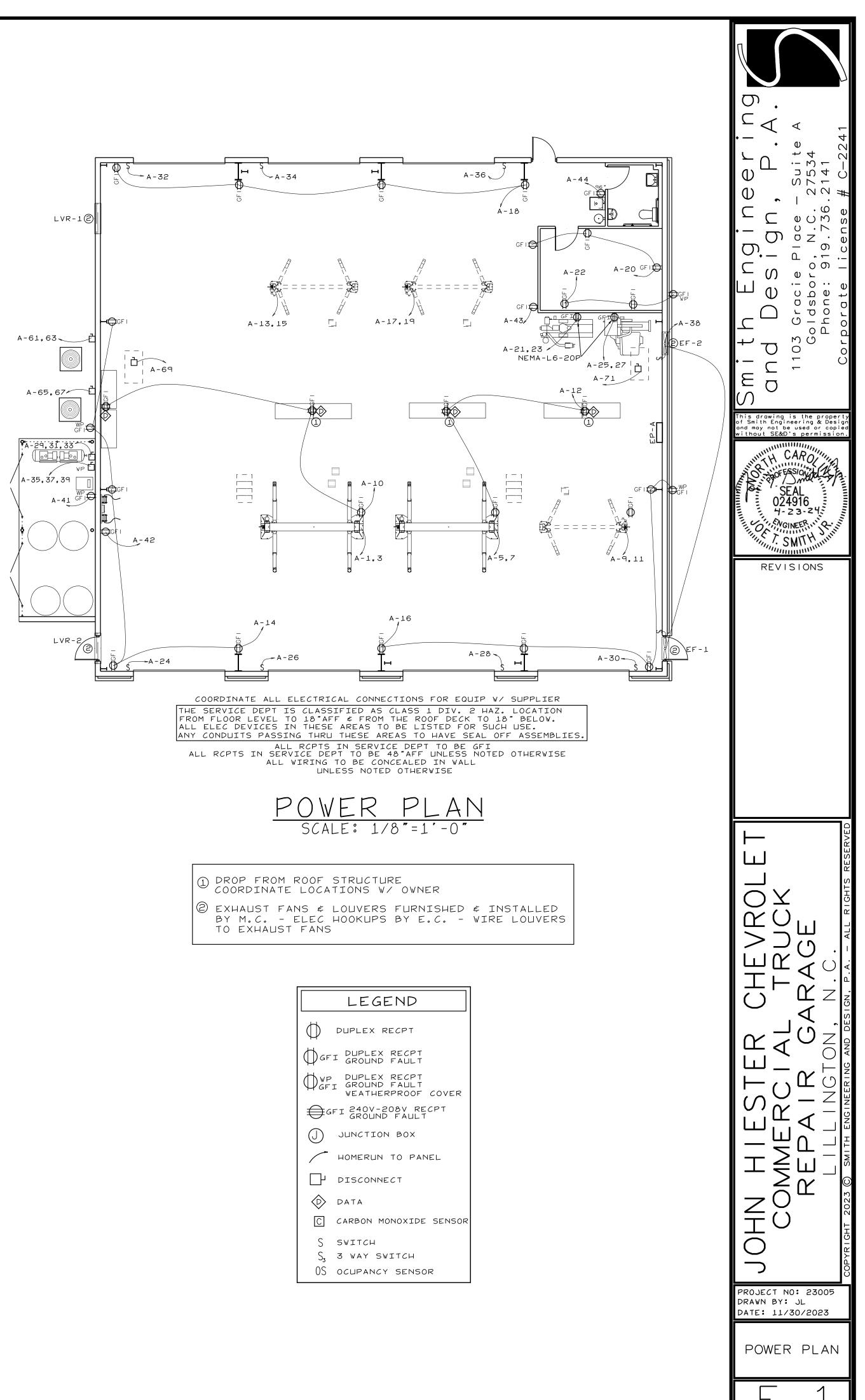
VERIFY BREAKER SIZE FOR SHOP EQUIP V/ OWNERS EQUIP SUPPLIER

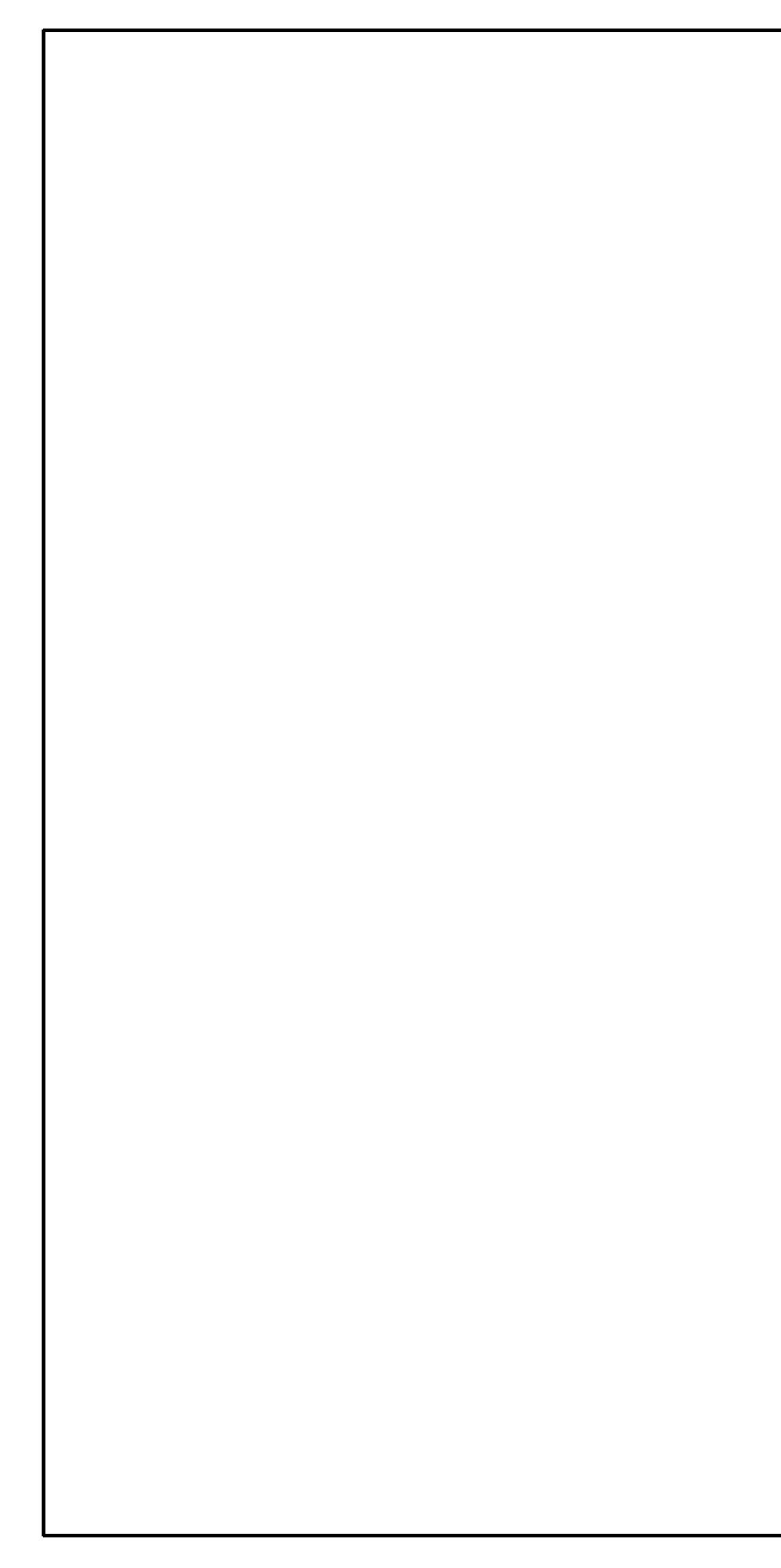


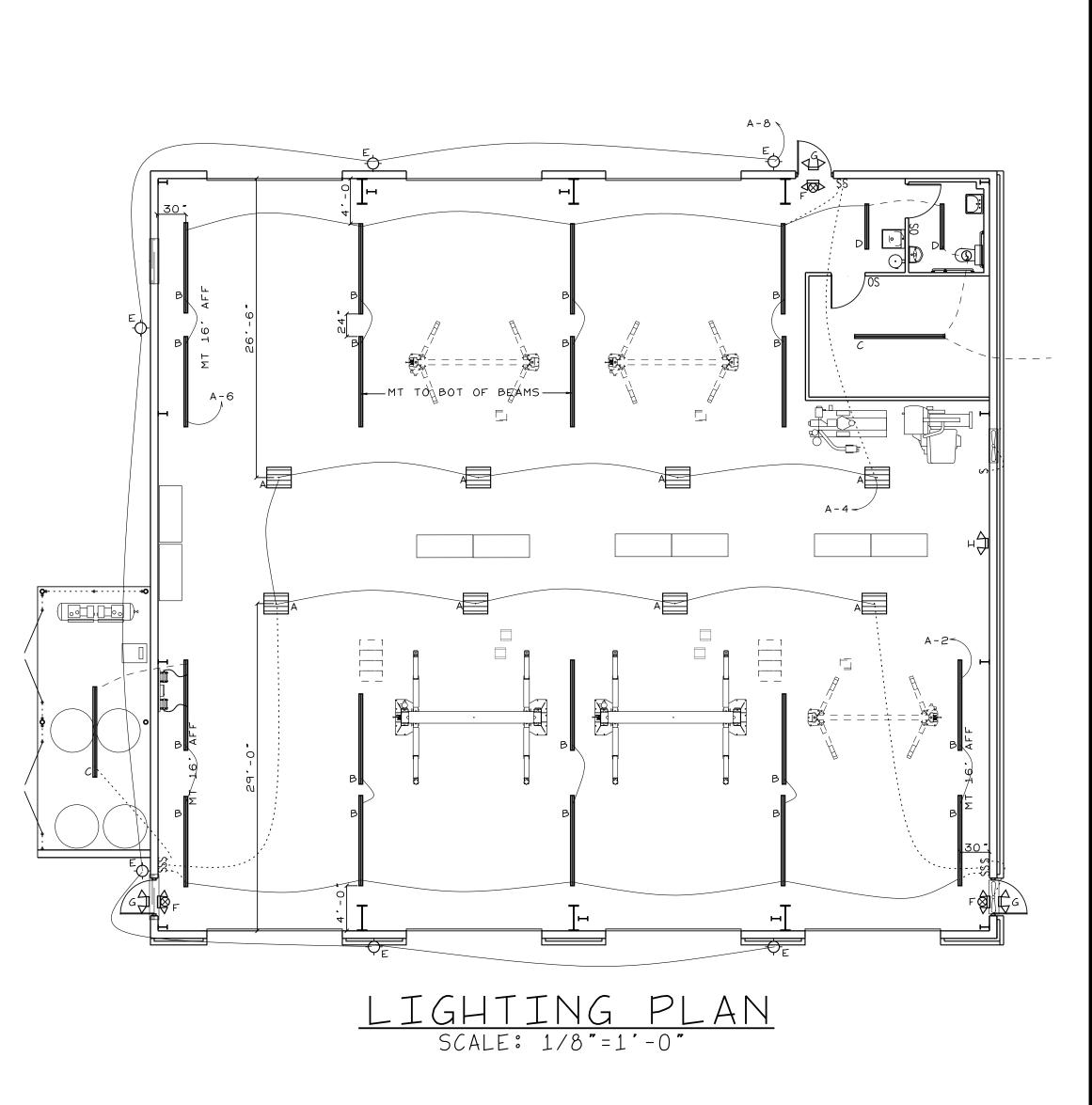
ELECTRICAL NOTES ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDE BY E.C.. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE. ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC. PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310-16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110-4C. OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPERATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. MC CABLE PERMITTED IN CONCEALED SPACES. PROVIDE 3/4-INCH EMPTY CONDUITS EXTENDING ABOVE CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. ALL CABLING IS PROVIDED BY OTHERS. PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. ALSO PANELBOARDS FOR SERVICE ENTRANCE SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEMA 3R PANELBOARDS WHERE LOCATED OUTSIDE. PROVIDE NEUTRAL AND GROUNDING BARS IN ALL PANELBOARDS UNLESS NOTED OTHERWISE. GROUND ALL SERVICE ENTRANCE PANELS IN ACCORDANCE WITH THE NEC. PROVIDE BOLT-IN BREAKERS UNLESS NOTED OTHERWISE. PROVIDE TYPE WRITTEN PANEL SCHEDULES IN EACH PANEL INDICATING THE LOAD DESCRIPTION FOR EACH 12. BREAKER. LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE AND PHASE. PROVIDE HEAVY DUTY FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM. PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. RECEPTACLES SHALL BE 20 AMP, 120V UNLESS NOTED OTHERWISE RECEPTACLES ABOVE COUNTERTOPS AND ADJACENT TO SINKS, LAVATORIES & EWCS SHALL BE GROUND FAULT. KITCHEN, SERV DEPT, WASH BAYS & SERV DRIVE THRU RECEPTACLES SHALL BE GROUND FAULT. 18. RECEPTACLES INSTALLED OUTSIDE SHALL BE GROUND FAULT WITH "IN USE" WEATHERPROOF COVERS. 19. PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. ALL DEVICE PLATES TO BE BRUSHED ALUMINUM FINISH. 20. ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. RACEWAYS SHALL BE CONCEALED IN WALL CONSTRUCTION, ABOVE CELINGS OR BELOW FLOORS TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED MINIMIZE VERTICLE & HORIZONTAL RUNS. SET NEAT & ORDERLY. 22. ALL EXPOSED WIRING TO BE IN IMC, RMC OR EMT. ALL WIRING TO BE IN IMC, RMC, EMT OR MC FLEX. 23. PROVIDE PULL WIRES IN ALL EMPTY CONDUITS. 24. PROVIDE ADJUSTABLE LENGTH BARS FOR MOUNTING RECEPTACLES & DATA BOXES IN METAL STUD WALLS. 25. 2 OR MORE ADJACENT POWER OR COMMUNICATION RCPTS ARE TO BE GANGED W/ A COMMON FACEPLATE - IF NOT APPLICABLE, INSTALL AS CLOSE TOGETHER AS POSSIBLE. 26. ALL PENETRATIONS OF EXTERIOR WALLS, ROOFS & CEILINGS SHALL BE SEALED TO PREVENT AIR INFILTRATION GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER 27 DATE OF ACCEPTANCE. 28. E.C. TO PROVIDE ELECTRICAL HOOKUPS FOR ALL 120V OR GREATER EQUIPMENT & FIXTURES REGUARDLESS OF WHO FURNISHES THE EQUIPMENT OR FIXTURES. 29. THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE ELECTRICAL DISTRIBUTION SYSTEM. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BIDDING IF

UNABLE TO PROVIDE A COMPLETE SYSTEM DUE TO CONFLICTS, ERRORS, OR OMMISSIONS. FURTHER, IF THERE ARE CONFLICTS W/ LOCAL, STATE OR NATIONAL CODES, SUCH CODES SHALL HAVE PRECEDENCE OVER THE PLANS & SPECS, AND THE ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO BIDDING. ALL NOTIFICATIONS IN WRITING.









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	LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUF	CATALOG NO.	LAMPS	FIXTURE WATTAGE					
A	LED HIGH BAY	LITHONIA	IBG 30000LM SEF L/LENS VD MVOLT 35K 80CRI DVH	LED	188W					
В	8' LED STRIP	LITHONIA	CLX L96 18000LM SEF RDL WD MVOLT 50K 80CRI WH	LED	129W					
С	8' LED STRIP	LITHONIA	CLX L96 6000LM SEF RDL WD MVOLT 50K 80CRI WH	LED	38∀					
D	4' LED STRIP	LITHONIA	CLX L48 3000LM SEF RDL VE MVOLT 50K 80CRI VH	LED	21W					
E	LED VALL PACK	LITHONIA	VDGE4LED-P5-40K-70CRI-R4-MVOLT-DNATXD	LED	156W					
F	EMER/EXIT LGT	LITHONIA	ECBG LED M6		3₩					
G	EXT EMER LGT - REMOTE HEAD	LITHONIA	ELA LED T VP M12		1W					
Н	EMERGENCY LIGHT	LITHONIA	ELM2 LED		21					
I										

ALL EXT LIGHTING TO BE CONTROLLED BY PHOTOCELL & TIME CLOCK

