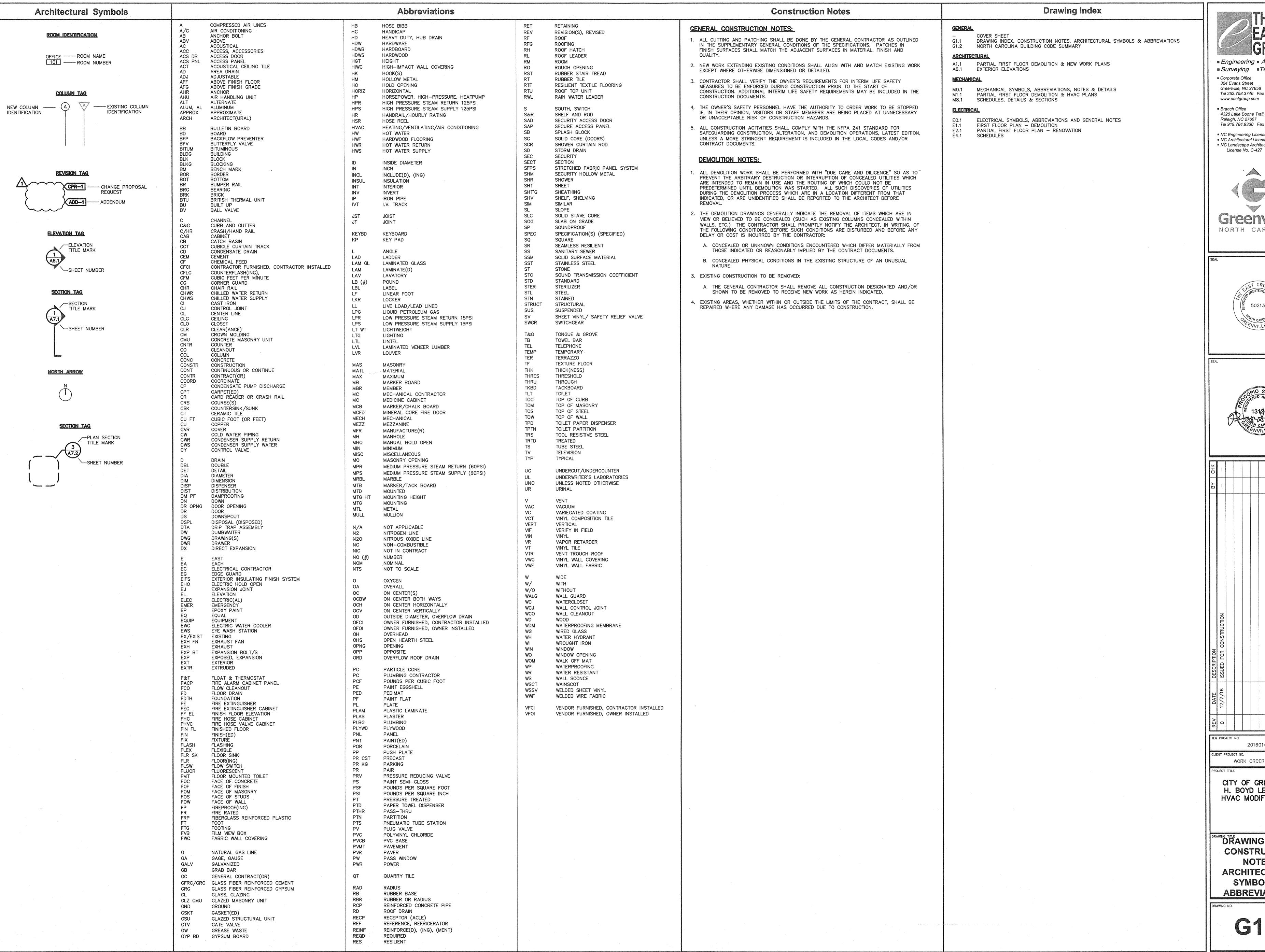
# CITY OF GREENVILLE RECREATION AND PARKS

## H. BOYD LEE PARK HVAC MODIFICATIONS

TEG PROJECT NO. 20160143
CITY OF GREENVILLE WORK ORDER NO. 19

ISSUED FOR CONSTRUCTION
DECEMBER 7, 2016



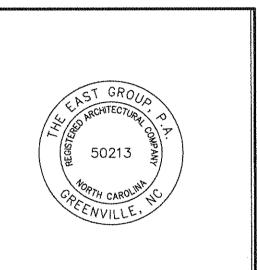
■ Engineering ■ Architecture ■ Surveying ■ Technology

■ Corporate Office 324 Evans Street Greenville, NC 27858 Tel 252.758.3746 Fax 252.830.3954

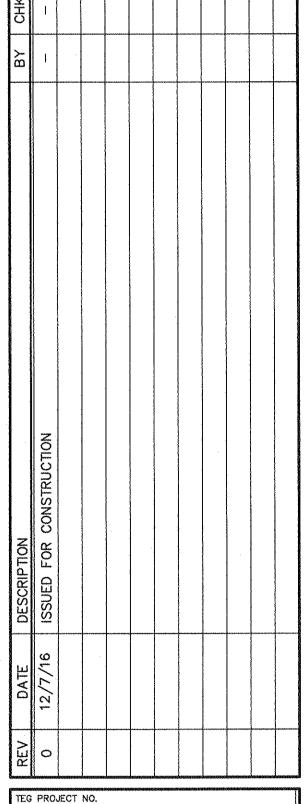
www.eastgroup.com Branch Office 4325 Lake Boone Trail, Suite 311

Raleigh, NC 27607 Tel 919.784.9330 Fax 919.784.9331 ■ NC Engineering License No. C-0206 ■ NC Architectural License No. 50213 ■ NC Landscape Architectural









20160143

WORK ORDER NO. 19

CITY OF GREENVILLE H. BOYD LEE PARK HVAC MODIFICATIONS

DRAWING INDEX,

CONSTRUCTION NOTES, **ARCHITECTURAL** SYMBOLS & **ABBREVIATIONS** 

61.

NAME OF PROJECT: CITY OF GREENVILLE - H. BOYD LEE PARK HVAC MODIFICATIONS	ALLOWABLE AREA (CONTINUED)  NOT AFFECTED BY THIS PROJECT.
ADDRESS: 5184 COREY RD., GREENVILLE, NC ZIP CODE: 27858	
PROPOSED USE: UNCHANGED	STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER,
OWNER/AUTHORIZED AGENT: MIKE WATSON PHONE # (252) 329-4567	EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES
OWNED BY: STATE	ROOMS CONTAINING FIRE PUMPS
CODE ENFORCEMENT JURISDICTION: SCITY GREENVILLE, NC COUNTY N/A STATE	☐ GROUP I-2 STORAGE ROOMS OVER 100 SQUARE FEET
	☐ GROUP I-2 COMMERCIAL KITCHENS
	GROUP I-2 LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET
LEAD DESIGN PROFESSIONAL: DENNIS W. PETERSON, JR., PE E-MAIL: dennis.peterson@eastgroup.com	☐ GROUP I-2 ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT
DESIGNER FIRM NAME LICENSE # TELEPHONE #	SPECIAL USES:
ARCHITECTURAL THE EAST GROUP, PA PROCOPIO SERRANO, AIA 13124 (252) 758-3746	411
CIVIL N/A N/A N/A	
ELECTRICAL THE EAST GROUP, PA DOUGLAS E. STOVER, PE 024358 (252) 758-3746	SPECIAL PROVISIONS:   509.2   509.3   509.4   509.5   509.6   509.7   509.8   509.9
FIRE ALARM  N/A  N/A  N/A  N/A  N/A  N/A  N/A	MIXED OCCUPANCY: NO YES SEPARATION: HR. EXCEPTION:
	☐ INCIDENTAL USE SEPARATION (508.2.5)
PLUMBING N/A N/A N/A N/A	THIS SEPARATION IS NOT EXEMPT AS A NONSEPARATED USE (SEE EXCEPTIONS).
MECHANICAL THE EAST GROUP, PA DENNIS W. PETERSON, JR., PE 035030 (252) 758-3746	□ NONSEPARATED USE (508.3.2)
SPRINKLER-STANDPIPE N/A N/A N/A N/A	THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING.
STRUCTURAL N/A N/A N/A	THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
RTG. WALLS >5' HIGH N/A N/A N/A N/A	SEPARATED USE (508.3.3) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF
LANDSCAPE N/A N/A N/A	THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.
	ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B  ALLOWABLE AREA OF OCCUPANCY A + ALLOWABLE AREA OF OCCUPANCY B   1
2012 EDITION OF NC CODE FOR: NEW CONSTRUCTION ADDITION UPFIT	<u> </u>
EXISTING: RECONSTRUCTION ALTERATION REPAIR RENOVATION	
CONSTRUCTED (DATE): ORIGINAL USE(S) (CH. 3):	(A) (B) (C) (D) (E) (F)  STORY NO DESCRIPTION BLDG AREA TARIE 50.75 AREA FOR AREA FOR ALLOWABLE MAXIMUM
RENOVATED (DATE): CURRENT USE(S) (CH. 3):	STORT NO. AND USE PER STORY MADE SOS FRONTAGE SPRINKLER AREA OR BUILDING
PROPOSED USE(S) (CH. 3): UNCHANGED	(ACTUAL)   AREA   INCREASE   UNLIMITED   AREA
	-
BUILDING DATA  NOT AFFECTED BY THIS PROJECT.	
CONSTRUCTION TYPE:   I-A   II-A   IV   V-A	
□ I−B □ III−B □ V−B	
SPRINKLERS: ☐ NO ☐ PARTIAL ☑ YES ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D	1. FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
STANDPIPES:	a. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (F) b. TOTAL BUILDING PERIMETER = (P)
FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES	c. RATIO (F/P) = (F/P) d. W = MINIMUM WIDTH OF PUBLIC WAY = (W) e. PERCENTAGE OF FRONTAGE INCREASE I = 100[F/P - 0.25] x W/30 = (%)
BUILDING HEIGHT: FEET:18	e. PERCENTAGE OF FRONTAGE INCREASE I = $100[F/P - 0.25] \times W/30 =$ (%)
GROSS BUILDING AREA:	2. THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:  a. MULTI-STORY BUILDING I = 200 PERCENT
FLOOR EXISTING (SQ FT) RENOVATION (SQ FT) NEW (SQ FT) SUB-TOTAL	b. SINGLE STORY BUILDING I = 300 PERCENT  3. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
	4. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x E (506.4). 5. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF
7th FLOOR	AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.
6th FLOOR	
5th FLOOR	THE BUILDING HEIGHT
4th FLOOR	I is NOT AFFECTED BY
3rd FLOOR	ALLOWABLE HEIGHI THIS PROJECT.
3rd FLOOR 2nd FLOOR	
	ALLOWABLE HEIGHT THIS PROJECT.  ALLOWABLE INCREASE FOR SPRINKLERS SHOWN ON BLANS CODE
2nd FLOOR	ALLOWABLE HEIGHT  ALLOWABLE THIS PROJECT.
2nd FLOOR           1st FLOOR         16,526           BASEMENT	ALLOWABLE HEIGHT THIS PROJECT.  ALLOWABLE (TABLE 503) INCREASE FOR SPRINKLERS SHOWN ON PLANS CODE REFERENCE  TYPE OF CONSTRUCTION TYPE II-B TYPE II-B -
2nd FLOOR           1st FLOOR         16,526           BASEMENT	ALLOWABLE HEIGHT  ALLOWABLE THIS PROJECT.
2nd FLOOR       16,526       16,526         BASEMENT       16,526       16,526         TOTAL       16,526       16,526	ALLOWABLE HEIGHT  ALLOWABLE THIS PROJECT.
2nd FLOOR         16.526         16.526           BASEMENT         16,526         16,526           TOTAL         16,526         ALLOWABLE AREA         ALLOWABLE AREA IS NOT AFFECTED BY	ALLOWABLE HEIGH    THIS PROJECT.
2nd FLOOR  1st FLOOR 16,526 16,526  BASEMENT  TOTAL 16,526  ALLOWABLE AREA IS NOT AFFECTED BY THIS PROJECT.	ALLOWABLE HEIGH  ALLOWABLE (TABLE 503)  INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  TYPE OF CONSTRUCTION TYPE II—B TYPE II—B —  BUILDING HEIGHT IN FEET FEET 18 FEET = H + 20' = FEET 18 —  BUILDING HEIGHT IN STORIES STORIES 1 STORIES 1 —  FIRE PROTECTION REQUIREMENTS  NOT AFFECTED BY THIS PROJECT.
2nd FLOOR  1st FLOOR 16,526 16,526  BASEMENT  TOTAL 16,526  ALLOWABLE AREA  OCCUPANCY:  ALLOWABLE AREA  OCCUPANCY:	ALLOWABLE HEIGHT  ALLOWABLE (TABLE 503) INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE TYPE OF CONSTRUCTION TYPE II-B TYPE I
2nd FLOOR         1st FLOOR       16,526         BASEMENT         TOTAL       16,526         ALLOWABLE AREA         OCCUPANCY:         ASSEMBLY       ⋈ A-1         A-2       □ A-3         □ A-4       □ A-5	ALLOWABLE HEIGH  ALLOWABLE (TABLE 503) INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  TYPE OF CONSTRUCTION TYPE II—B TYPE II—B —  BUILDING HEIGHT IN FEET FEET 18 FEET H + 20' = FEET 18 —  BUILDING HEIGHT IN STORIES STORIES 1 STORIES 1 —  FIRE PROTECTION REQUIREMENTS  FIRE RATING DETAIL # DESIGN # FOR FOR FOR FOR RATED RATED RATED  BUILDING ELEMENT PROJECT.
2nd FLOOR         1st FLOOR       16,526       16,526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA       ALLOWABLE AREA IS NOT AFFECTED BY THIS PROJECT.         ASSEMBLY          \( \text{A} = 1 \)	ALLOWABLE HEIGHI    THIS PROJECT.
2nd FLOOR       16.526       16.526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         OCCUPANCY:       ASSEMBLY       A-1	ALLOWABLE HEIGH1    ALLOWABLE (TABLE 503)   INCREASE FOR SPRINKLERS   SHOWN ON PLANS   REFERENCE
2nd FLOOR         1st FLOOR       16,526       16,526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         ALLOWABLE AREA IS NOT AFFECTED BY THIS PROJECT.         OCCUPANCY:       A-1	ALLOWABLE HEIGH    THIS PROJECT.
2nd FLOOR       16.526       16.526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         OCCUPANCY:       ASSEMBLY       A-1	ALLOWABLE HEIGHT  ALLOWABLE (TABLE 503)  INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  TYPE OF CONSTRUCTION TYPE
2nd FLOOR         1st FLOOR       16,526       16,526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         ALLOWABLE AREA IS NOT AFFECTED BY THIS PROJECT.         OCCUPANCY:       A-1	ALLOWABLE FIEIGH  ALLOWABLE (TABLE 503) INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  TYPE OF CONSTRUCTION TYPE  II—B  TYPE II—B  TYPE II—B  TYPE II—B  P  BUILDING HEIGHT IN FEET FEET  BUILDING HEIGHT IN STORIES TORIES  THIS PROJECT.  INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  FEET  BUILDING HEIGHT IN STORIES TORIES  THE  STORIES  THIS PROJECT.  INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  FEET  IB  FEET  BUILDING HEIGHT IN STORIES THE  STORIES  THIS PROJECT.  INCREASE FOR SPRINKLERS  FOR RATED AND AND AND AND AND AND AND AND SHEET # ASSEMBLY PENETRATION JOINTS  STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES BEARING WALLS  BEARING WALLS
2nd FLOOR       16.526       16.526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         OCCUPANCY:         ASSEMBLY       △ A-1       △ A-2       △ A-3       △ A-4       △ A-5         BUSINESS       □	ALLOWABLE HEIGHT    THIS PROJECT.
2nd FLOOR       16.526       16.526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         OCCUPANCY:       A-1	ALLOWABLE HEIGHT  ALLOWABLE (TABLE 503)  INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  TYPE OF CONSTRUCTION TYPE   II-B   TYPE   II-B   -  BUILDING HEIGHT IN FEET   FEET   18   FEET = H + 20' =   FEET   18   -  BUILDING HEIGHT IN STORIES   STORIES   1   STORIES + 1 =   STORIES   1   -  FIRE PROTECTION REQUIREMENTS  FIRE SEPARATION DISTANCE (FEET)   PROVIDED (W/ REDUCTION)* SHEET # ASSEMBLY PENETRATION JOINTS  STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES   DEARING WALLS  BEARING WALLS  EXTERIOR  NORTH
2nd FLOOR  1st FLOOR  16.526  BASEMENT  TOTAL  16,526  ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  ASSEMBLY  ASSEMBLY  ASSEMBLY  A-1   A-2   A-3   A-4   A-5  BUSINESS   EDUCATIONAL   FACTORY   F-1 MODERATE   F-2 LOW  HAZARDOUS   H-1 DETONATE   H-2 DEFLAGRATE   H-3 COMBUST   H-4 HEALTH   H-5 HPM  INSTITUTIONAL   I-1   I-2   I-3   I-4  INSTITUTIONAL   I-1   I-2   I-3   I-4  INSTITUTIONAL   I-1   I-2   I-3   I-4  II-3 CONDITION   I   2   3   4   5	ALLOWABLE HEIGHT  ALLOWABLE (TABLE 503)  INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE  TYPE OF CONSTRUCTION TYPE II—B TYPE II—B —  BUILDING HEIGHT IN FEET FEET 18 FEET = H + 20' = FEET 18 —  BUILDING HEIGHT IN STORIES STORIES 1 STORIES 1 STORIES 1 —  FIRE PROTECTION REQUIREMENTS  FIRE SEPARATION DISTANCE (FEET)  BUILDING ELEMENT  STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES  BEARING WALLS  BEARING WALLS  EXTERIOR  NORTH — — — — — — — — — — — — — — — — — — —
2nd FLOOR       16,526       16,526       16,526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA         ALLOWABLE AREA IS NOT AFFECTED BY THIS PROJECT.         NOT AFFECTED BY THIS PROJECT.         BUSINESS       □ EDUCATIONAL □         FACTORY       □ F-1 MODERATE □ F-2 LOW         HAZARDOUS       □ H-1 DETONATE □ H-2 DEFLAGRATE □ H-3 COMBUST         □ H-4 HEALTH □ H-5 HPM         INSTITUTIONAL □ I-1 □ I-2 □ I-3 □ I-4         I-3 CONDITION □ 1 □ 2 □ 3 □ 4 □ 5         MERCANTILE       UTILITY AND MISC. □	ALLOWABLE HEIGHT  ALLOWABLE (TABLE 503) INCREASE FOR SPRINKLERS SHOWN ON PLANS REFERENCE TYPE OF CONSTRUCTION TYPE
2nd FLOOR  1st FLOOR  16.526  ALLOWABLE AREA  TOTAL  16.526  ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  A-1   A-2   A-3   A-4   A-5  A-4   A-5  A-5  BUSINESS  BUCCATIONAL   H-3 COMBUST  BUSINESS  ASSEMBLY  ASSE	ALLOWABLE HEIGHT    CODE   TYPE OF CONSTRUCTION   TYPE   III—B   TYPE   IIII—B   TYPE   IIII—B   TYPE   IIII—B   TYPE   IIII—B   TYPE   IIIII—B   TYPE   IIIII   TYPE   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
2nd FLOOR       16.526       16.526         BASEMENT         TOTAL       16.526       16.526         ALLOWABLE AREA         CCCUPANCY:         ASSEMBLY       △ A-1       △ A-2       △ A-3       △ A-4       △ A-5         BUSINESS       □       EDUCATIONAL       □         FACTORY       □ F-1       MODERATE       □ F-2       LOW         HAZARDOUS       □ H-1       DETONATE       □ H-2       DEFLAGRATE       □ H-3       COMBUST         INSTITUTIONAL       □ I-1       □ I-2       □ I-3       □ I-4         I3       CONDITION       □       □       □ I-3       □ I-4         I3       CONDITION       □       □       □       □ I-3       □ I-4         I3       CONDITION       □       □       □       □       □         RESIDENTIAL       □       □       □       □       □       □       □         RESIDENTIAL       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □       □	ALLOWABLE HEIGHT  ALLOWABLE  (TABLE 503)  INCREASE FOR SPRINKLERS  SHOWN ON PLANS  REFERENCE  TYPE OF CONSTRUCTION  TYPE II—B  DUILDING HEIGHT IN FEET FEET 18 FOR STORIES 1 FEET 18 FOR FOR FOR STORIES 1 FOR FOR FOR FOR FOR SHEET # SSEMBLY PENETRATION JOINTS  STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES  BEARING WALLS  EXTERIOR  NORTH
2nd FLOOR       16,526       16,526         BASEMENT         TOTAL       16,526       16,526         ALLOWABLE AREA       ALLOWABLE AREA IS NOT AFFECTED BY THIS PROJECT.         OCCUPANCY:         ASSEMBLY          \[	ALLOWABLE   THIS PROJECT.
1st FLOOR  16.526  BASEMENT  TOTAL  16,526  ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  ASSEMBLY  FACTORY  HAZARDOUS  H-1 DETONATE  H-2 DEFLAGRATE  H-3 COMBUST  H-4 HEALTH  H-5 HPM  INSTITUTIONAL  H-3 CONDITION  H-1 DETONATE  H-2 DEFLAGRATE  H-3 COMBUST  H-1 DETONATE  H-2 DEFLAGRATE  H-3 COMBUST  H-1 DETONATE  H-2 DEFLAGRATE  H-3 COMBUST  H-4 HEALTH  H-5 HPM  INSTITUTIONAL  H-3 CONDITION  H-1 DETONATE  H-2 DEFLAGRATE  H-3 COMBUST  H-4 HEALTH  H-5 HPM  INSTITUTIONAL  H-3 CONDITION  H-4 HEALTH  H-5 HPM  FSTORAGE  S-1 MODERATE  S-2 LOW  HIGH-PILED  PARKING GARAGE  OPEN   ENCLOSED   REPAIR GARAGE  ACCESSORY OCCUPANCIES:  ASSEMBLY  ASSEMBLY  ASSEMBLY  A-1 A-2 A-3 A-4 A-5  HIGH-PILED  REPAIR GARAGE	ALLOWABLE HEIGH   THIS PROJECT.      ALLOWABLE   TOTABLE 503)   INCREASE FOR SPRINKLERS   SHOWN ON PLANS   REFERENCE     TYPE OF CONSTRUCTION   TYPE   III—B   TYPE   III—B   TYPE   III—B   TYPE   III—B   TYPE   IIII—B   TYPE   IIIII—B   TYPE   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
1st FLOOR  1st FLOOR  BASEMENT  TOTAL  16,526   ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  ASSEMBLY  FACTORY  HAZARDOUS  H-1 DETONATE    H-2 DEFLAGRATE   H-3 COMBUST    H-4 HEALTH   H-5 HPM  INSTITUTIONAL   I-1   I-2   I-3   I-4  I-3 CONDITION   RESIDENTIAL   RESIDENTIAL   R-1   R-2   R-3   R-4  STORAGE   S-1 MODERATE   S-2 LOW   HIGH-PILED   PARKING GARAGE   OPEN   ENCLOSED   REPAIR GARAGE  ACCESSORY OCCUPANCIES:  ASSEMBLY   A-1   A-2   A-3   A-4   A-5  BUSINESS   BUSINES	THIS PROJECT.   THIS PROJECT.
2nd FLOOR  1st FLOOR  16.526  ALLOWABLE AREA  TOTAL  ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  ASSEMBLY  ASSEMBLY  ASSEMBLY  ASSEMBLY  ASSEMBLY  BUSINESS  FACTORY  F-1 MODERATE  F-2 LOW  HAZARDOUS  H-1 DETONATE  H-2 DEFLAGRATE  H-3 COMBUST  INSTITUTIONAL  H-4 HEALTH  H-5 HPM  INSTITUTIONAL  IN	THIS PROJECT.   THIS PROJECT.
1st FLOOR  1st FLOOR  BASEMENT  TOTAL  16,526   ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  ASSEMBLY  FACTORY  HAZARDOUS  H-1 DETONATE    H-2 DEFLAGRATE   H-3 COMBUST    H-4 HEALTH   H-5 HPM  INSTITUTIONAL   I-1   I-2   I-3   I-4  I-3 CONDITION   RESIDENTIAL   RESIDENTIAL   R-1   R-2   R-3   R-4  STORAGE   S-1 MODERATE   S-2 LOW   HIGH-PILED   PARKING GARAGE   OPEN   ENCLOSED   REPAIR GARAGE  ACCESSORY OCCUPANCIES:  ASSEMBLY   A-1   A-2   A-3   A-4   A-5  BUSINESS   BUSINES	THIS PROJECT.
1st FLOOR  1st FLOOR  16,526  BASEMENT  TOTAL  16,526  ALLOWABLE AREA  OCCUPANCY:  ASSEMBLY  ASSEMBLY  HAZARDOUS    H-1   DETONATE   H-2   DEFLAGRATE   H-3   COMBUST     H-4   HEALTH   H-5   HPM     INSTITUTIONAL   I-1   I-2   I-3   I-4     I-3 CONDITION   I   2   3   4   5     MERCANTILE   UTILITY AND MISC.     RESIDENTIAL   R-1   R-2   R-3   R-4     STORAGE   S-1   MODERATE   S-2   LOW   HIGH-PILED     DARKING GARAGE   OPEN   ENCLOSED   REPAIR GARAGE    ACCESSORY OCCUPANCIES:  ASSEMBLY   A-1   A-2   A-3   A-4   A-5     BUSINESS   EDUCATIONAL       FACTORY   F-1   MODERATE   S-2   LOW   HIGH-PILED     DARKING GARAGE   OPEN   ENCLOSED   REPAIR GARAGE    ACCESSORY OCCUPANCIES:   ASSEMBLY   A-1   A-2   A-3   A-4   A-5     BUSINESS   EDUCATIONAL       FACTORY   F-1   MODERATE   F-2   LOW	THIS PROJECT.
18t FLOOR  18t FLOOR  16,526  ALLOWABLE AREA  16,526  ALLOWABLE AREA  CCCUPANCY:  ASSEMBLY  ASSEMBLY  AFACTORY  FACTORY  HAZARDOUS  H-1 DETONATE  H-2 DEFLAGRATE  H-3 CONDITION  1 D 2 D 3 D 4 D 5  MERCANTILE  WILLOWABLE AREA  ALLOWABLE AREA  AND AFFECTED BY THIS PROJECT.  ALLOWABLE AREA  ALLOWABLE AREA  ALLOWABLE AREA  AND AFFECTED BY THIS PROJECT.  ALLOWABLE AREA  ALLOWABLE AREA ALLOWABLE AREA ALLOWABLE AREA A	THIS PROJECT.
16.526  BASEMENT  TOTAL  16.526  ALLOWABLE AREA  ALLOWABLE AREA  NOT AFFECTED BY THIS PROJECT.  ASSEMBLY  ASSEMBLY  ASSEMBLY  BUSINESS  BUJINESS	THIS PROJECT.
16.526  BASEMENT  TOTAL  16.526  ALLOWABLE AREA  CCCUPANCY:  ASSEMBLY  ASSEMBLY  BUSINESS  H-1 DETONATE   F-2 LOW  HAZARDOUS   H-1 DETONATE   H-5 HPM  INSTITUTIONAL   R-1   R-2   R-3   R-4   R-5  BUSINESS   UTILITY AND MISC.    RESIDENTIAL  RESIDENTIA	THIS PROJECT.   THIS PROJECT.
1st FLOOR	ALLOWABLE PIEIGH   THIS PROJECT.
Total   16,526   16	ALLOWABLE PIEIGHT   THIS PROJECT.
1st FLOOR   1st 526	THIS PROJECT.   THIS PROJECT.
18.1 FLOOR	THIS PROJECT.   THIS PROJECT.
1st FLOOR   1st 526	THIS PROJECT.   THIS PROJECT.
16,526	THIS PROJECT.   THIS PROJECT.
16.526	THIS PROJECT.   THIS PROJECT.
1st FLOOR	THIS PROJECT.   THIS PROJECT.
16   FLOOR	### ALLUWABLE HEIGHT    THIS PROJECT.   THIS PROJECT.
Total   16.526   16	### ALLUWABLE HEIGHT    THIS PROJECT.   THIS PROJECT.
16.526	ALLOWABLE HEIGHT   THE SPROJECT   TYPE   IL-B   TYPE   TYPE   IL-B   TYPE   TYPE   TYPE   IL-B   TYPE   T
16.526   1	TYPE OF CONSTRUCTION   TYPE
16.526	ALLOWABLE HEIGHT  ALLOWABLE HEIGHT  ALLOWABLE PROJECT.  ALLOWABLE HEIGHT  ALLOWABLE PROJECT.  ALLOWABLE HEIGHT  TYPE DATE: (TABLE 503)   NOREASE FOR SPRINKLERS SHOWN ON PLANS ROPERTOR. GENERAL PROJECT OF THE PROJECT
Tal Floor   16.526	THE PROJECT   THE SPROJECT   THE S
201 FLOOR	NOT AFFECTED BY   INSTANCE, ITS SHOWN ON PLANS   CODE
2nd Floor	TYPE OF CONSTRUCTION   TYPE

PANIC HARDWARE:

☐ WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET

□ NO ☑ YES

LIFE SAFETY PLAN SHEE	T #:	N/A	AN REQUIR	EMEN	ITS		FETY SYSTEMS T AFFECTED BY OJECT.	
☐ EXISTING STRU ☐ OCCUPANCY T ☐ OCCUPANT LO ☐ EXIT ACCESS ☐ COMMON PATH	OPENING AREA CTURES WITHIN 3 YPES FOR EACH ADS FOR EACH A TRAVEL DISTANCE OF TRAVEL DIST	WITH RESPECT TO FEET OF THE AREA AS IT RE REA S (1016)	TO DISTANCE TO A	NG				
EGRESS WIDTH  ACTUAL OCCU  A SEPARATE SIS PROVIDED F  LOCATION OF  LOCATION OF  LOCATION OF  LOCATION OF  THE SQUARE F	DTHS FOR EACH CULATED OCCUPA (1005.1) PANT LOAD FOR SCHEMATIC PLAN FOR PURPOSES OF DOORS WITH PAN DOORS WITH DELA DOORS WITH ELECT DOORS EQUIPPED EMERGENCY ESCA FOOTAGE OF EACH	NT LOAD CAPA EACH EXIT DOO INDICATING WH F OCCUPANCY IC HARDWARE AYED EGRESS I CTROMAGNETIC WITH HOLD—OI IPE WINDOWS ( H FIRE AREA ( H SMOKE COMF	IERE FIRE RATED FL SEPARATION (1008.1.10) LOCKS AND THE AM EGRESS LOCKS (10 PEN DEVICES	OOR/CEII OUNT OF 08.1.9.8)	LING AND	OR ROOF	STRUCTURE	
	AC		LITY PARKI ION 1106)	NG	AFFECTI	ED BY THE	MENTS ARE NOT S PROJECT. NO ING COUNT.	
LOT OR PARKING AREA	TOTAL # OF PAREQUIRED	PROVIDED	REGULAR WITH ACCESS AISLE	5' VAI	N SPACES		TOTAL # ACCESSIBLE PROVIDED	
					A TANANCA CANADA CA			
LIVE LOADS:  GROUND SNOW L WIND LOAD:	SEISMIC ROOF: MEZZAI FLOOR: DAD:	(Is):  (Is):  NINE:  PSF  WIND SPEED:	PSF PSF	(ASCE-7)		RUCTURAL		
WIND LOAD:  SEISMIC DESIGN CATEGO  PROVIDE THE FOLLOWING	EXPOSI WIND E	URE CATEGORY BASE SHEARS ( □ A	:		and the state of t			
OCCUPANCY CAT SPECTRAL RESPO SITE CLASSIFICAT	EGORY (TABLE 16 INSE ACCELERATION ION (TABLE 1613	04.5):		□ D		□F	A.T.A	
BASIC STRUCTUR  BEARIN  BUILDIN  MOMEN  SEISMIC BASE SH  ANALYSIS PROCE	AL SYSTEM (CHEC G WALL G FRAME T FRAME EAR: DURE:	DUAL  DUAL  INVE	L W/ SPECIAL MOME L W/ INTERMEDIATE RTED PENDULUM PLIFIED	ENT FRAM  R/C OR  Vy =  /ALENT L	ME SPECIAL	STEEL		
SOIL BEARING CAPACITII  FIELD TEST (PRO  PRESUMPTIVE BE	OL: ES: VIDE COPY OF TE ARING CAPACITY: AND CAPACITY:	☐ EAR1	THQUAKE   WIND   PSF   PSF					
		NG FIXTU	JRE REQUIF _E 2902.1)	REME	NTS	ARE NOT AF PROJECT. N	IXTURE REQUIREMENTS FECTED BY THIS O NET CHANGE IN	
USE	WATER CLOSET MALE FEMA 5 13	URINALS	LAVATORIES  MALE FEMALE  5 5	SHOWE TUB	S R	DRINKING EEGULAR	FOUNTAINS	
(L	_		APPROVAL DPI, DHHS, ICC, ETC.		BE BELOV	V)		

#### **ENERGY SUMMARY** THE BUILDING ENVELOPE IS NOT AFFECTED BY THIS PROJECT. ERGY REQUIREMENTS: □ 3 □ 4 □ 5 CLIMATE ZONE: METHOD OF COMPLIANCE: ☐ PRESCRIPTIVE ☐ PERFORMANCE ENERGY CODE: ☐ PRESCRIPTIVE ☐ PERFORMANCE ERMAL ENVELOPE: ROOF/CEILING ASSEMBLY (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: METAL DECK WTH R-14 INSULATION U-VALUE OF TOTAL ASSEMBLY: 0.045 R-VALUE OF INSULATION: R19 SKYLIGHTS IN EACH ASSEMBLY: NONE U-VALUE OF SKYLIGHT: NA TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: NA EXTERIOR WALLS (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: METAL PANEL WITH 6" GLASS BATT U-VALUE OF TOTAL ASSEMBLY: 0.073 R-VALUE OF INSULATION: 0.05 PER INCH OPENINGS (WINDOWS OR DOORS WITH GLAZING): U-VALUE OF ASSEMBLY: 0.36 SOLAR HEAT GAIN COEFFICIENT: 0.76 PROJECTION FACTOR: 0.2 DOOR R-VALUES: NA WALLS BELOW GRADE (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY: NA R-VALUE OF INSULATION: NA FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: NA U-VALUE OF TOTAL ASSEMBLY: NA R-VALUE OF INSULATION: NA FLOORS SLAB ON GRADE: DESCRIPTION OF ASSEMBLY: 4" SLAB WITH 2" PERIMETER INSULATION U-VALUE OF TOTAL ASSEMBLY: EDGE OF SLAB 0.100 R-VALUE OF INSULATION: R-VALUE 0.5 PER INCH HORIZONTAL/VERTICAL REQUIREMENT: 24" HORIZONTAL/24" VERTICAL SLAB HEATED: NA **MECHANICAL SUMMARY** CHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT: METHOD OF COMPLIANCE: ENERGY CODE: ☐ PERFORMANCE ☐ PRESCRIPTIVE ☐ PERFORMANCE THERMAL ZONE: WINTER DRY BULB: 14.8°F SUMMER DRY BULB: 93.1°F INTERIOR DESIGN CONDITIONS: WINTER DRY BULB: 70'F SUMMER DRY BULB: 75°F RELATIVE HUMIDITY: 60% MAX BUILDING HEATING LOAD: 244.6 MBH BUILDING COOLING LOAD: 31.7 TONS MECHANICAL SPACE CONDITIONING SYSTEM: UNITARY: DESCRIPTION OF UNIT: PACKAGED GAS/ELECTRIC HEATING EFFICIENCY: SEE MECHANICAL DRAWINGS COOLING EFFICIENCY: SEE MECHANICAL DRAWINGS SIZE CATEGORY OF UNIT: >/= 135,000 AND < 240,000 BTUH SIZE CATEGORY; IF OVERSIZED, STATE REASON: N/A SIZE CATEGORY; IF OVERSIZED, STATE REASON: N/A LIST EQUIPMENT EFFICIENCIES: SEE MECHANICAL DRAWINGS NO BACKBONE ELECTRICAL EQUIPMENT IS EFFECTED BY THIS PROJECT. ELECTRICAL DESIGN **ELECTRICAL SUMMARY** ECTRICAL SYSTEM AND EQUIPMENT: INCLUDES POWER, LIGHTING, AND COMMUNICATION CONSTRUCTION METHOD OF COMPLIANCE: TO ACCOMMODATE NEW ROOM CONFIGURATION. ☐ PRESCRIPTIVE ☐ PERFORMANCE ☐ PRESCRIPTIVE ☐ PERFORMANCE LIGHTING SCHEDULE (EACH FIXTURE TYPE): LAMP TYPE REQUIRED IN FIXTURE: NUMBER OF LAMPS IN FIXTURE: BALLAST TYPE USED IN FIXTURE: NUMBER OF BALLASTS IN FIXTURE: TOTAL WATTAGE PER FIXTURE: TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED:

TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED:

ADDITIONAL PRESCRIPTIVE COMPLIANCE:

☐ 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT

☐ 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS

☐ 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY

☐ 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

☐ 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING

☐ 506.2.2 REDUCED LIGHTING POWER DENSITY

■ Engineering ■ Architecture ■ Surveying ■Technology

Corporate Office 324 Evans Street Greenville, NC 27858 Tel 252.758.3746 Fax 252.830.3954 www.eastgroup.com

Branch Office 4325 Lake Boone Trail, Suite 311 Raleigh, NC 27607 Tel 919.784.9330 Fax 919.784.9331

NC Engineering License No. C-0206 ■ NC Architectural License No. 50213 NC Landscape Architectural License No. C-427







	â	ď					
		ISSUED FOR CONSTRUCTION					
	DATE	12/7/16					
	REV	0					

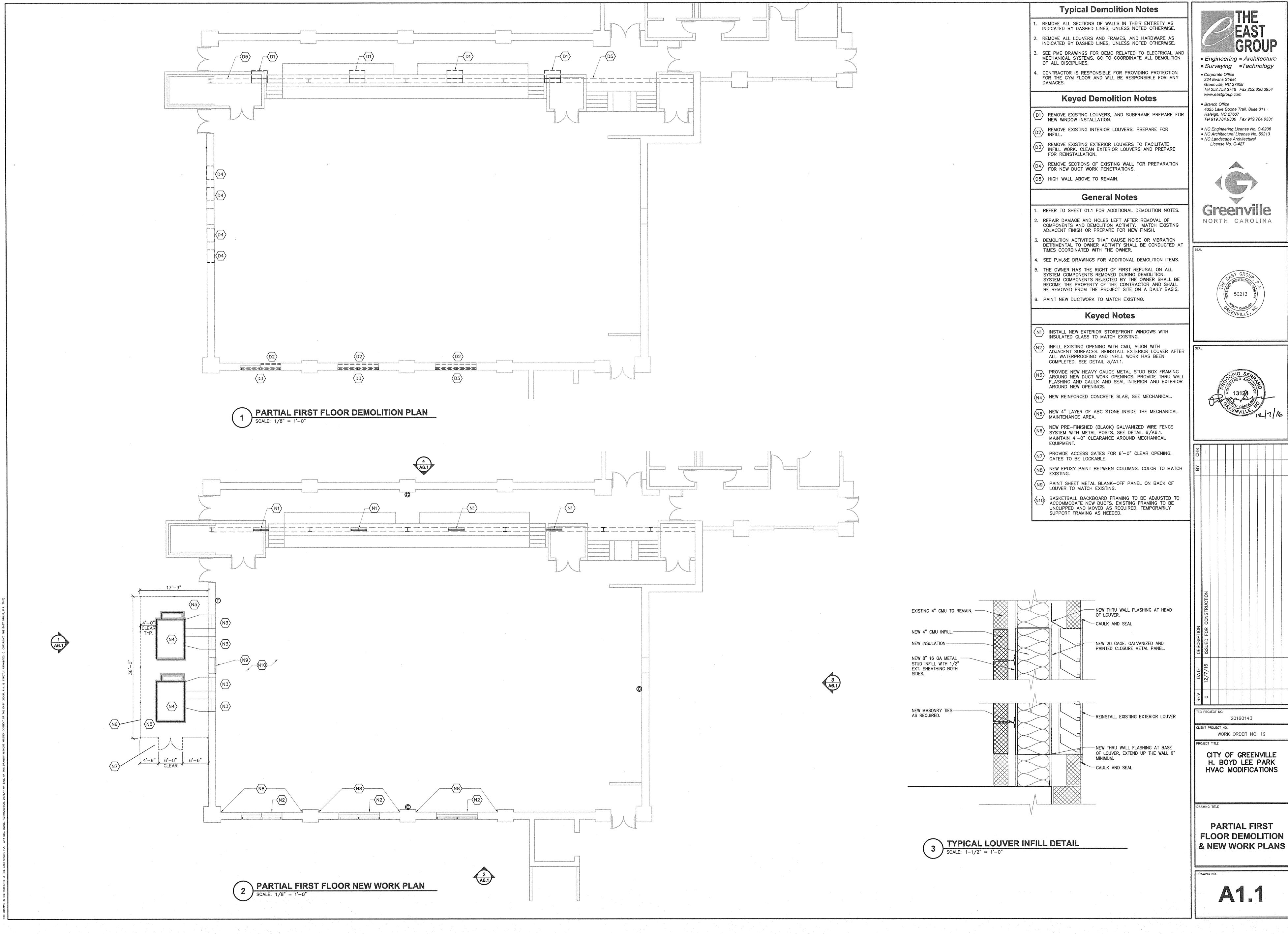
20160143

CLIENT PROJECT NO.

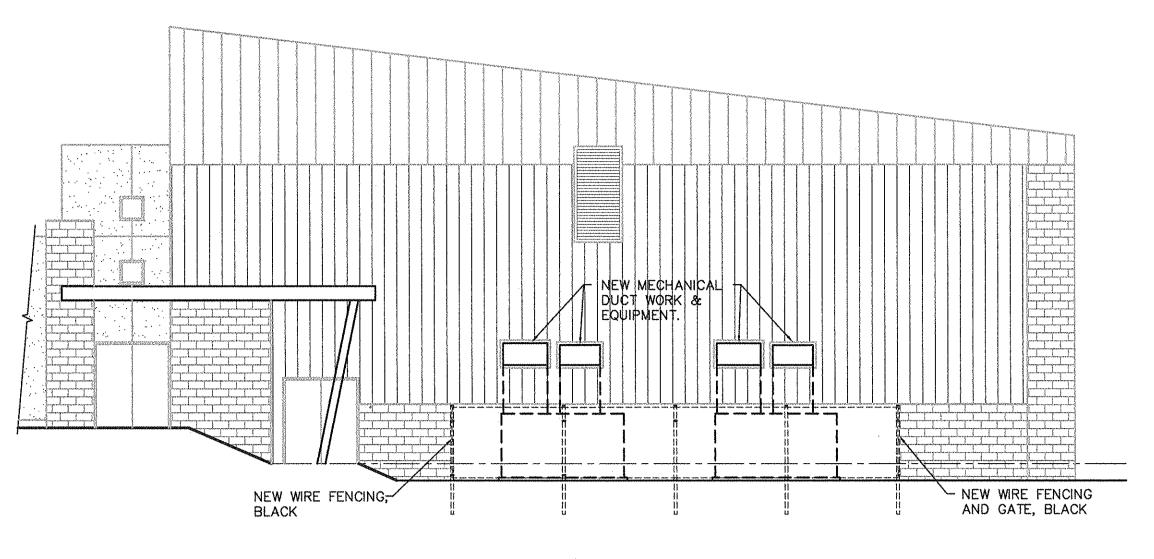
WORK ORDER NO. 19

CITY OF GREENVILLE H. BOYD LEE PARK HVAC MODIFICATIONS

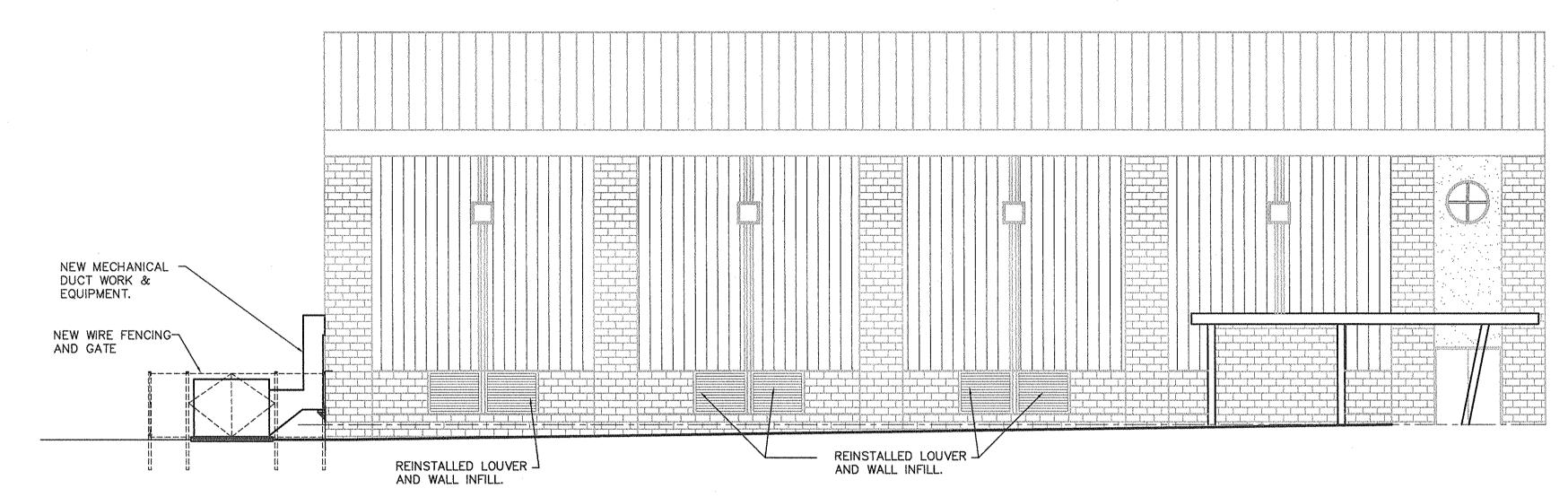
NORTH CAROLINA BUILDING CODE SUMMARY





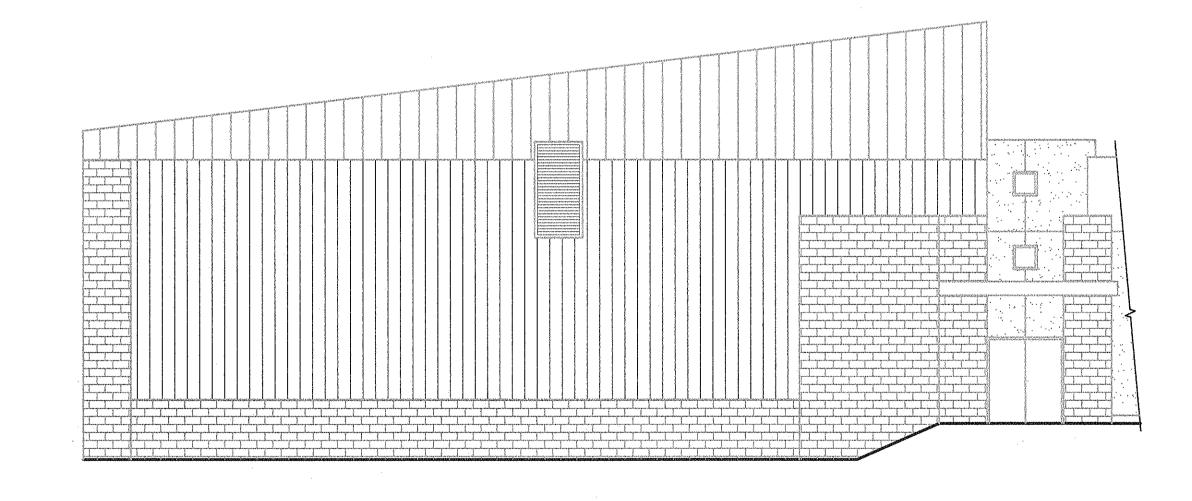


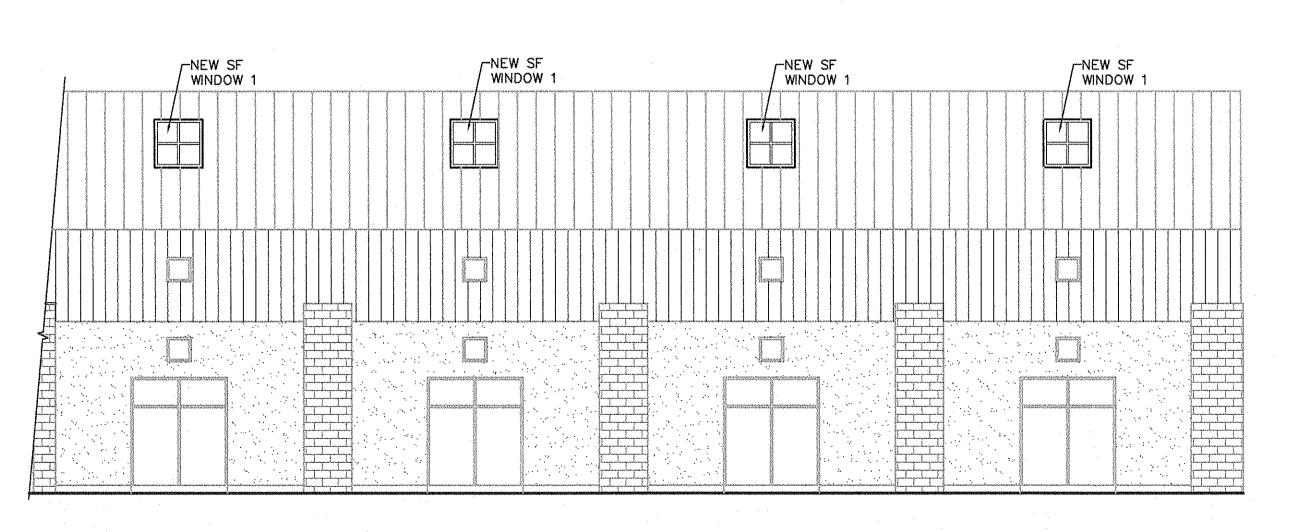
1 ELEVATION
SCALE: 1/8" = 1'-0"



ELEVATION

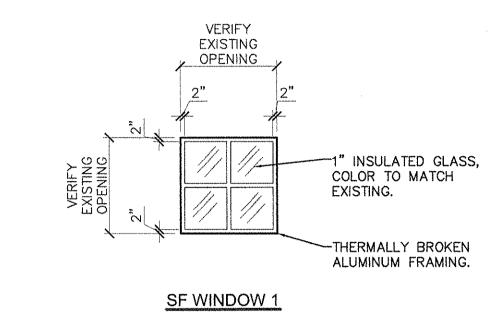
SCALE: 1/8" = 1'-0"





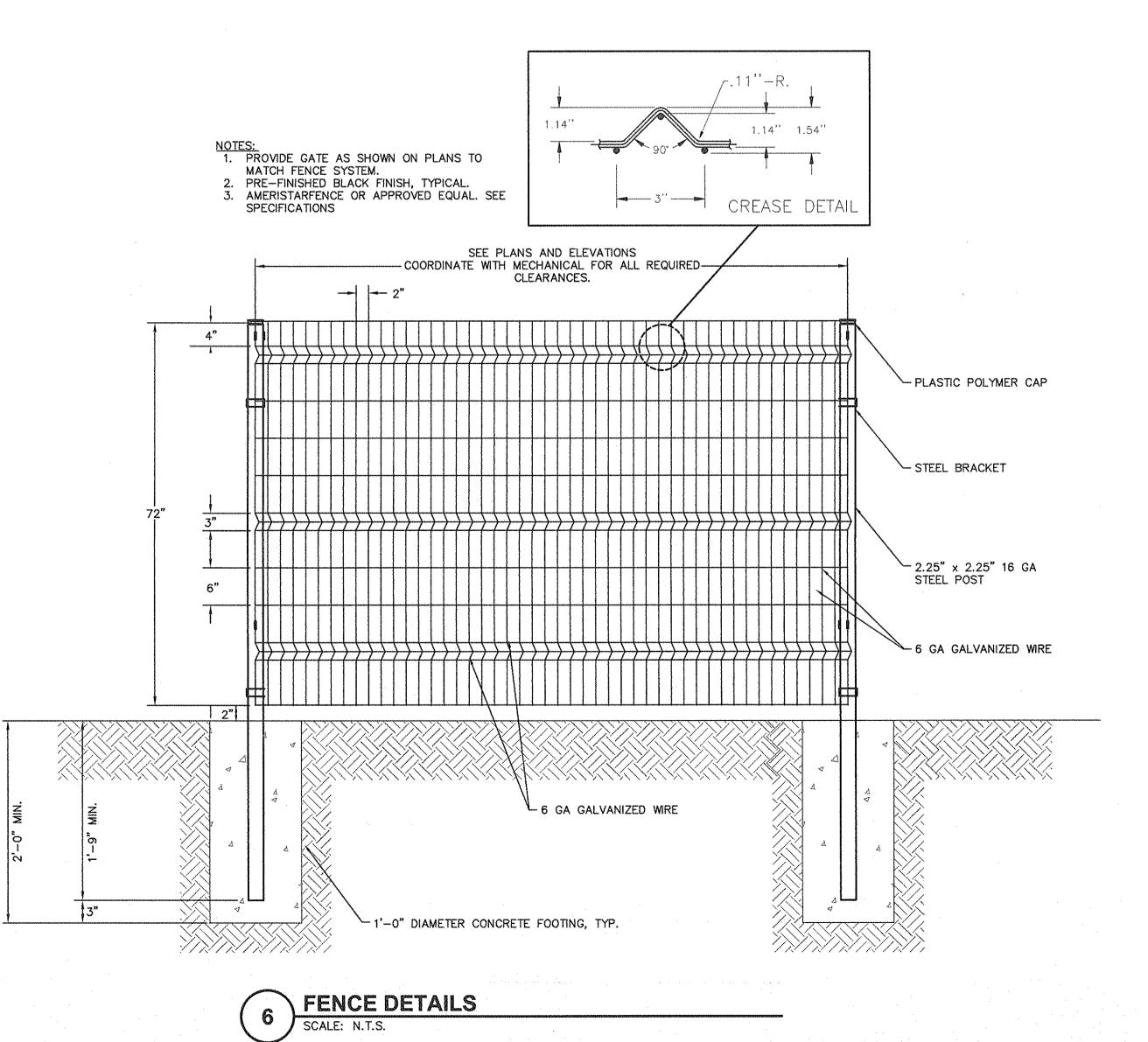
4 ELEVATION

SCALE: 1/8" = 1'-0"



TYPICAL STOREFRONT WINDOW ELEVATION

SCALE: N.T.S.



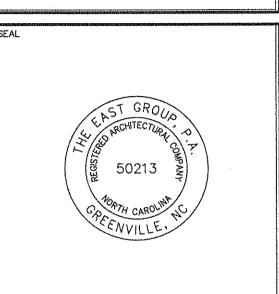
THE EAST GROUP

■ Engineering ■ Architecture
■ Surveying ■ Technology
■ Corporate Office
324 Evans Street
Greenville, NC 27858
Tel 252.758.3746 Fax 252.830.3954
www.eastgroup.com

Branch Office
4325 Lake Boone Trail, Suite 311
Raleigh, NC 27607
Tel 919.784.9330 Fax 919.784.9331
NC Engineering License No. C-0206
NC Architectural License No. 50213

NC Landscape Architectural License No. C-427







	1 '										
ВҮ	l										
DESCRIPTION	ISSUED FOR CONSTRUCTION										
DATE	12/7/16	******************************									
REV	0				DPASSEDON #		i i	·			e and annual state deal
TEG	PRO	JECT	NO.	PANIS A TRANSPORTO DE		nerenoloxicale		<del></del>	<del>Derivani, kalsi</del> nia	шкануткат	inadokski pisto

TEG PROJECT NO.

20160143

CLIENT PROJECT NO.

WORK ORDER NO. 19

CITY OF GREENVILLE H. BOYD LEE PARK HVAC MODIFICATIONS

EXTERIOR ELEVATIONS

DRAWING TITLE

A6.1

e de la companya del la companya de la companya del la companya de	terminative data da sa se aparte de la completa de la contractiva del la contractiva de la contractiva de la contractiva de la contractiva del la contractiva de la contractiva de la contractiva de la contractiva del la cont	Makipatan dipanggan dan kepada panggan panggan berakan dan kepada panggan berakan dan panggan berakan dan pang			
			MECHANICAL SYMBOLS AND	<u>ABBREV</u>	<u>/IATIONS</u>
	PIPE TURNING UP		SIDEWALL RETURN OR EXHAUST	C.O.	CLEAN OUT
<del></del>	PIPE TURNING DOWN		GRILLE OR REGISTER	CONC.	CONCRETE
	TEE DOWN	$\mathbb{Z}$	ROUND SUPPLY DIFFUSER	CONN. CON'T.	CONNECTION
	TEE UP	· ·		CONT.	CONSTRUCTION
<del></del>	45° OFFSET	$\overline{}$	SQUARE SUPPLY DIFFUSER	CONTR.	CONTRACTOR
	DIRECTION OF FLOW IN PIPE			COORD.	COORDINATE COEFFICIENT OF PERFORMANCE
AMPENNATIONALISMANATORIANALISMANATORIANALISMANATORIANALISMANATORIANALISMANATORIANALISMANATORIANALISMANATORIANA	PIPE SLOPED UP IN DIRECTION	<del> 3</del>	EXHAUST OR RETURN GRILLE	CTR	CENTER
**************************************	OF ARROW	<b>₩</b>	OR REGISTER	CU CU.FT.	COPPER CUBIC FOOT
	PIPE CAP	\ \sqrt{\sq}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}\}}\exittit{\sqrt{\sq}\}}}\exittit{\sqrt{\sq}}}}}}}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	SQUARE ELBOW WITH	CW.F1.	COLD WATER
>	CONCENTRIC REDUCER		MULTIPLE TURNING VANES	CWR	CONDENSER WATER RETURN
	ECCENTRIC REDUCER	<del>\</del>		CWS CU.YD.	CONDENSER WATER SUPPLY CUBIC YARD
	PIPE UNION	35/1/	ROUND ELBOW, R = 11/2 D	DB	DRY BULB
$-\!$	GATE VALVE			DG DH	DOOR GRILLE DUCT HEATER
<b>──</b>	GLOBE VALVE		DUCT TURNING UP	D.I.	DUCTILE IRON
	CHECK VALVE		DOCT TORNING OP	DHW	DOMESTIC HOT WATER
<b>────</b>	TRIPLE-DUTY VALVE	FIX	DUCT TURNING DOWN	DIA. DN.	DIAMETER DOWN
	BUTTERFLY VALVE			DD	DUCT MOUNTED SMOKE DETECTOR
—— <b>(</b> )—	PLUG VALVE	}     }	FLEXIBLE CONNECTION	D.P. DPR	DIFFERENTIAL PRESSURE DAMPER
$\!$	BALL VALVE	***************************************	TRANSFER OPENING IN WALL	DWG.	DRAWING
	FLEXIBLE CONNECTION		ABOVE CEILING (SIZE SHOWN ON PLANS)	D.W.V.	DRAIN, WASTE AND VENT
			FLEXIBLE DUCT	DX EA	DIRECT EXPANSION EXHAUST AIR
	MOTORIZED VALVE	<b>V</b> 0		E.A.T.	ENTERING AIR TEMPERATURE
	SOLENOID VALVE	<b>\</b>	VOLUME DAMPER WITH MANUAL OPERATOR	E.C.	ELECTRICAL CONTRACTOR
——————————————————————————————————————	CONTROL VALVE (2-WAY)	M	777 57 C 7 1 hou C 1 . hou C 7 7 C C 1 C	ECC EF	ECCENTRIC EXHAUST FAN
——————————————————————————————————————	CONTROL VALVE (3-WAY)	<b>₹</b>	CONTROL DAMPER WITH	EFF	EFFICIENCY
<b>─────</b>	PRESSURE REDUCING VALVE	<b>▶</b> FD	MOTOR OPERATOR	EH EJ	ELECTRIC HEATER EXPANSION JOINT
<b>\$</b>	SAFETY RELIEF VALVE	{ }	FIRE DAMPER	EL	ELEVATION
	CALIBRATED FLOW BALANCING			ELEC.	ELECTRICAL
Consend	VALVE		SMOKE DAMPER	EQUIP. EQ.	EQUIPMENT EQUAL
<u></u> <u>EW</u>	FLOW METER	▶S/FD	COMPINATION FIRE AND	EQUIV.	EQUIVALENT
ДFS		<u>}</u>	COMBINATION FIRE AND SMOKE DAMPER	ER E.S.P.	EXHAUST REGISTER EXTERNAL STATIC PRESSURE
<u></u>	FLOW SENSOR/SWITCH	F 80	BACKDRAFT DAMPER (ARROW	E.W.T.	ENTERING WATER TEMPERATURE
<b>—</b>	CHOTION DIFFLICED	1 1	INDICATES DIRECTION OF FLOW)	EXH. EXIST.	EXHAUST
\$0	SUCTION DIFFUSER		DUCT MOUNTED SMOKE	F	EXISTING FAHRENHEIT
-1617161	BACKFLOW PREVENTER		DETECTOR	FACP	FIRE ALARM CONTROL PANEL
	ASSEMBLY	(MO)	DUCT MOUNTED HEAT	FC FCU	FLOW CONTROLLER FAN COIL UNIT
	Y-TYPE STRAINER		DETECTOR	FCV	FLOW CONTROL VALVE
	BASKET STRAINER		DUCT MOUNTED STEAM	FD	FIRE DAMPER
${\mathbb Q}$	PRESSURE GAUGE	<u> </u>	HUMIDIFIER	FE FL	FLOW ELEMENT FLOOR
	(W/¼" BALL VALVE)	{TXXXXXT}	AIR FLOW CONTROL VALVE	FLEX	FLEXIBLE
Q <sub>i</sub>	STEAM PRESSURE GAUGE (W/¼" BALL VALVE AND	AFCV-1		FLG FO	FLANGE FLAT OVAL
	PIGTAIL SIPHON)	{ <b>X</b> }	DUCT MOUNTED HOT WATER COIL	FOB	FLAT ON BOTTOM
Ш	TI ICOLAGA ACTICO	<u> </u>	DOCT MODRIED HOT WATER COIL	FOR	FUEL OIL RETURN
q	THERMOMETER	and the second second	VADIADIE OD OONSTANT VOLUME	FOS FOSA	FUEL OIL SUPPLY FLAT OVAL SUPPLY AIR
	TEMPERATURE SENSOR		VARIABLE OR CONSTANT VOLUME TERMINAL UNIT WITH REHEAT	FOT	FLAT ON TOP
Т	P/T PLUG	L_J	VARIABLE OR CONSTANT VOLUME	FOV FP	FUEL OIL VENT FIRE PROTECTION
	·	ď,	TERMINAL UNIT WITHOUT REHEAT	F.P.C.	FIRE PROTECTION CONTRACTOR
— <u>c</u> X—	STEAM TRAP	[FREE]	EMERGENCY STOP SWITCH FOR AIR	FPM	FEET PER MINUTE
	EXPANSION COMPENSATOR	ESS	HANDLING UNIT	FPS FS	FEET PER SECOND FLOW SWITCH/SENSOR
	ALIGNMENT GUIDE	100 100 (100)	DIFFUSER, REGISTER, OR GRILLE	F&T	FLOAT & THERMOSTATIC
	PIPE ANCHOR	100 100 100	SYMBOL-NUMBER INDICATES CFM	FT FTG.	FLOW TRANSMITTER FOOTING
	FLEXIBLE PIPE CONNECTION	T	THERMOSTAT-MOUNT & AT 48" AFF	FV	FLOW VALVE
Managaman		$\Theta$	HUMIDISTAT-MOUNT € AT 48" AFF	G	NATURAL GAS
	EXPANSION LOOP	50	DIRECTION AND QUANTITY OF	GA. GAL.	GAGE GALLONS
	WITH GUIDES	50	AIR FLOW UNDER DOOR (CFM)	GALV.	GALVANIZED
	PUMP	©.	CENTER LINE	G.C. GPH	GENERAL CONTRACTOR GALLONS PER HOUR
— CLPS —	CLEAN LOW PRESSURE STEAM	r. ∠	PLATE ANGLE	GPM	GALLONS PER HOUR  GALLONS PER MINUTE
LPS	LOW PRESSURE STEAM	ø	ROUND, DIAMETER OR PHASE	GV	NATURAL GAS VENT
HPS	HIGH PRESSURE STEAM	# A	POUNDS OR NUMBER COMPRESSED AIR	HC HD	HUMIDITY CONTROLLER HEAT DETECTOR
—— PC ——	PUMPED CONDENSATE  LOW PRESSURE CONDENSATE	ABV.CLG.	ABOVE CEILING	HGR.	HANGER
	HIGH PRESSURE CONDENSATE	ACCU ACFM	AIR COOLED CONDENSING UNIT ACTUAL CUBIC FEET PER MINUTE	HOA HORZ.	HAND-OFF-AUTOMATIC HORIZONTAL
D	CONDENSATE DRAIN DRAIN	ACU	AIR CONDITIONING UNIT	HP	HIGH PRESSURE OR HORSEPOWER
SRV	SAFETY RELIEF VENT	AC/HR	AIR CHANGES PER HOUR	HPC HPS	HIGH PRESSURE CONDENSATE HIGH PRESSURE STEAM
BBD BFW	BOILER BLOWDOWN BOILER FEED WATER	A.D. AFF	ACCESS DOOR ABOVE FINISHED FLOOR	HR	HOUR
HWS	HEATING WATER SUPPLY	AFG	ABOVE FINISHED GRADE	HS H'STAT	HUMIDITY SENSOR HUMIDISTAT
HWR	HEATING WATER RETURN	AFMS AHU	AIRFLOW MONITORING STATION AIR HANDLING UNIT	HT	HUMIDITY TRANSMITTER
—— CHWS —— —— CHWR ——	CHILLED WATER SUPPLY CHILLED WATER RETURN	ALUM.	ALUMINUM	HTG.	HEATING
CWS	CONDENSER WATER SUPPLY	AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
CWR FOS	CONDENSER WATER RETURN FUEL OIL SUPPLY	ANSI	AMERICAN NATIONAL STANDARDS	HWR	HEATING WATER RETURN
FOR	FUEL OIL RETURN	AP	INSTITUTE ACCESS PANEL	HWS	HEATING WATER SUPPLY
FOV	FUEL OIL VENT	APPROX.	APPROXIMATE	IA I.B.	INSTRUMENT AIR INVERTED BUCKET
GV	NATURAL GAS NATURAL GAS VENT	ARCH.	ARCHITECTURAL	1.D.	INSIDE DIAMETER
LPG	LIQUID PETROLEUM GAS	ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR	IN. INSUL.	INCH INSULATED
RL RS	REFRIGERANT LIQUID REFRIGERANT SUCTION		CONDITIONING ENGINEERS	INV.	INVERT
- · -		ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	KW I A T	KILOWATT
$\geq$	SUPPLY OR OUTSIDE AIR DUCT SECTION	AUTO	AUTOMATIC	L.A.T. LB/HR	LEAVING AIR TEMPERATURE
	RETURN OR EXHAUST DUCT	BBD BFF	BOILER BLOWDOWN BELOW FINISHED FLOOR	LCD	LINEAR CEILING DIFFUSER
	SECTION SHEET METAL DUCT DIMENSIONS	BFP	BACKFLOW PREVENTER	LSH/L LV	LEVEL SWITCH HIGH/LOW LEVEL VALVE
{ 12x6 }	SHEET METAL DUCT DIMENSIONS, (INCHES) FIRST DIMENSION IS	BFW	BOILER FEED WATER	L.W.T.	LEAVING WATER TEMPERATURE
<u> </u>	SIDE SHOWN	BHP BOD	BRAKE HORSEPOWER BOTTOM OF DUCT	L.P.	LOW PRESSURE
} → }	DIRECTION OF FLOW IN DUCT	BOP	BOTTOM OF PIPE	MA LPC	MEDICAL AIR LOW PRESSURE CONDENSATE
ITT	TRANSITION	BTU BTUH	BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR	LPG	LIQUID PETROLEUM GAS
1111	CONTRACTOR	BTUH C/C	CENTER TO CENTER	LPS MAX.	LOW PRESSURE STEAM MAXIMUM
$\{R\}$	DUCT SLOPED UP IN DIRECTION	CD	CONDENSATE DRAIN	MBH	BTUH x 1000
	OF ARROW	CF CFH	CHEMICAL FEED CUBIC FEET PER HOUR	MECH.	MECHANICAL
<u></u>	SPIN-IN FITTING AND SEPARATE	CFM	CUBIC FEET PER MINUTE	MEZZ MFG.	MEZZANINE MANUFACTURING
}	VOLUME DAMPER WITH LOCKING	CHWR CHWS	CHILLED WATER RETURN CHILLED WATER SUPPLY	MFR.	MANUFACTURER
<b></b>	QUADRANT	CHWS CLG.	CHILLED WATER SUPPLY CEILING	M.H. MIN.	MANHOLE MINIMUM
<b>}</b>	DUCT ACCESS PANEL	CLPS	CLEAN LOW PRESSURE STEAM	MIN. MJ	MECHANICAL JOINT
Н.	SIDEWALL SUPPLY GRILLE OR			MOD	MOTOR OPERATED DAMPER

SIDEWALL SUPPLY GRILLE OR REGISTER

MOUNTED NORMALLY CLOSED NEC NATIONAL ELECTRIC CODE **NEMA** NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NORMALLY OPEN NUMBER **NPSH** NET POSITIVE SUCTION HEAD N.R.S. NON RISING STEM N.T.S. NOT TO SCALE OUTSIDE AIR OPPOSED BLADE DAMPER ON CENTER O.D. OUTSIDE DIAMETER **OPNG OPENING** 0.S.&Y. OUTSIDE SCREW AND YOKE PARALLEL BLADE DAMPER PUMPED CONDENSATE PLUMBING CONTRACTOR PRESSURE DIFFERENTIAL TRANSMITTER PLUMBING POUNDS PER HOUR PRESSURE REDUCING STATION PRESSURE REDUCING VALVE PRESSURE SWITCH/SENSOR POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH PRESSURE TRANSMITTER PVC POLYVINYL CHLORIDE QUANTITY RETURN AIR ROUND REINFORCED CONCRETE PIPE RECIRC. RECIRCULATING REINF. REINFORCING REQUIRED REV. REVISION RETURN FAN ROOM RELATIVE HUMIDITY REVOLUTIONS PER MINUTE REFRIGERANT LIQUID REDUCED PRESSURE ZONE BACKFLOW PREVENTER REFRIGERANT SUCTION RISING STEM SUPPLY AIR SPEED CONTROLLER STANDARD CUBIC FEET PER MINUTE SCH. SCHEDULE SMOKE DAMPER SECT. SUPPLY FAN SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION STATIC PRESSURE SPECIFICATION SPRINKLER SQUARE STA. STATION STEEL STM STEAM STRUCT. STRUCTURAL SYMBOL OR SYMMETRICAL SYM SYS. TOP AND BOTTOM TEST AND BALANCE TO BE DETERMINED TEMPERATURE CONTROLLER TOP OF CURB T.O.D. TOP OF DUCT T.O.P. TOP OF PIPE T.O.S. TOP OF STEEL TEMPERATURE SENSOR T'STAT THERMOSTAT TEMPERATURE TRANSMITTER TERMINAL UNIT TEMPERATURE VALVE UNDER FLOOR UNIT HEATER UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE MANUAL VOLUME DAMPER VERTICAL VARIABLE SPEED VARIABLE SPEED DRIVE VTR VENT THRU ROOF

WITHOUT

WET BULB

WATER GAUGE

GENERAL SYMBOLS

--- PLAN NUMBER ----- ELEVATION NUMBER - SHOWN ON SHEET NUMBER - SECTION NUMBER

--- SHOWN ON SHEET NUMBER

------DIMENSION LINE

EXISTING COLUMN NUMBER OR LETTER NEW COLUMN NUMBER OR LETTER

KEYED NOTE NUMBER

CPR-#

(REVISION) ADDENDUM (REVISION)

CONNECT TO EXISTING REMOVE TO THIS POINT

EXISTING TO BE REMOVED OR RELOCATED

CHANGE PROPOSAL REQUEST

EXISTING TO REMAIN (LIGHT LINE TYPE) NEW OR RELOCATED WORK (HEAVY LINE TYPE)

## RATED WALLS

NON-RATED SMOKE PARTITION SEAL ALL PENETRATIONS 1-HOUR RATED FIRE BARRIER SEAL ALL PENETRATIONS 1-HOUR RATED FIRE PARTITION SEAL ALL PENETRATIONS 1-HOUR RATED SMOKE BARRIER SEAL ALL PENETRATIONS 1-HOUR RATED FIRE BARRIER AND SMOKE BARRIER COMBINATION SEAL ALL PENETRATIONS 2-HOUR RATED FIRE BARRIER SEAL ALL PENETRATIONS 2-HOUR RATED FIRE BARRIER AND SMOKE BARRIER COMBINATION SEAL ALL PENETRATIONS

2-HOUR FIRE WALL

3-HOUR FIRE WALL

4-HOUR FIRE WALL

SEAL ALL PENETRATIONS

SEAL ALL PENETRATIONS

SEAL ALL PENETRATIONS

## CONTROL SYMBOL

----- 4HR ------ 4HR -----

FUNCTION I.D.

----/-- PNEUMATIC ANALOG SIGNAL PNEUMATIC BINARY SIGNAL ----- ELECTRIC ANALOG SIGNAL ----- ELECTRIC BINARY SIGNAL (AI) ANALOG INPUT ANALOG OUTPUT BINARY INPUT BINARY OUTPUT

ELECTRIC TO PNEUMATIC SIGNAL CONVERTER

RESTRICTOR PNEUMATIC ACTUATOR

## CONTROL ABBREVIATIONS

BUILDING AUTOMATION SYSTEM FLOW CONTROLLER FLOW CONTROL VALVE FLOW ELEMENT FLOW INDICATOR FLOW SENSOR FLOW TRANSMITTER FLOW VALVE HUMIDITY CONTROLLER HUMIDITY SENSOR HUMIDITY TRANSMITTER LIMIT SWITCH LEVEL SWITCH HIGH/LOW LEVEL VALVE NORMALLY CLOSED NORMALLY OPEN PRESSURE DIFFERENTIAL TRANSMITTER PRESSURE SENSOR PRESSURE TRANSMITTER SPEED CONTROLLER TEMPERATURE CONTROLLER TEMPERATURE SENSOR TEMPERATURE TRANSMITTER TEMPERATURE VALVE VIBRATION SWITCH AUXILIARY DEVICE

GENERAL NOTES

- 1. REFER TO NOTES ON THE "G" SERIES DRAWINGS FOR GENERAL REQUIREMENTS OF THE PROJECT.
- 2. UNLESS NOTED OTHERWISE, DRAWINGS ARE DIAGRAMMATIC IN NATURE. COORDINATE INSTALLATION OF SYSTEM COMPONENTS WITH ACTUAL FIELD CONDITIONS; THE WORK OF OTHER TRADE CONTRACTORS; AND FOR MAINTENANCE ACCESS. INSTALL COMPONENTS SO THAT THEY DO NOT BLOCK ACCESS TO OTHER SYSTEM COMPONENTS REQUIRING MAINTENANCE. GIVE PRIORITY TO SYSTEMS THAT REQUIRE A SPECIFIED SLOPE.
- 3. EXAMINE THE PROJECT SITE PRIOR TO SUBMITTING BIDS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE EXTENT AND NATURE OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF THIS PROJECT; INCLUDING DEMOLITION WORK.
- 4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MATERIALS, AND LABOR AS REQUIRED FOR THE COMPLETE PROJECT UNLESS CERTAIN PORTIONS OF THE WORK ARE SPECIFICALLY IDENTIFIED AS "BY OTHERS", "BY OWNER", "NOT IN CONTRACT", OR SIMILAR WORDING.
- 5. CONTRACTOR IS RESPONSIBLE FOR CUTTING, CORE DRILLING, PATCHING, ETC. FOR PROPER EXECUTION AND COMPLETION OF THE WORK. WHEN CUTTING OR CORE DRILLING THROUGH EXISTING BUILDING ASSEMBLIES, CONTRACTOR SHALL VERIFY LOCATION OF ALL STRUCTURAL ELEMENTS PRIOR TO CUTTING OR CORE DRILLING. PATCH BUILDING ASSEMBLIES TO MATCH EXISTING ADJACENT FINISHES UNLESS NOTED OTHERWISE.
- 6. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) IN ACCORDANCE WITH THE UL LISTED SYSTEMS SHOWN ON THE "G" SERIES DRAWINGS.
- 7. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH NON-RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) WITH MATERIALS CONSISTENT WITH THE ASSEMBLY CONSTRUCTION (GYPSUM WALLBOARD, JOINT COMPOUND, MORTAR, GROUT, CAULK, ETC.).
- 8. COORDINATE ALL WORK WITH THE OWNER. WORK ABOVE, BELOW, NEAR, OR INSIDE OCCUPIED AREAS MAY HAVE TO BE PERFORMED DURING OFF-HOURS (NIGHTS AND WEEKENDS). SCHEDULE ALL OFF-HOURS WORK IN ADVANCE WITH THE OWNER. INCLUDE OVERTIME LABOR FOR OFF-HOURS WORK IN THE BASE BID. WHEN WORKING INSIDE OCCUPIED AREAS, COVER AND PROTECT ALL FURNITURE, EQUIPMENT, ETC. WITH FIRE-RETARDANT PLASTIC SHEETING. THOROUGHLY CLEAN THE PROJECT AREA AFTER WORK IS COMPLETED.
- 9. COORDINATE INSTALLATION OF CEILING MOUNTED DEVICES. WHEN INSTALLED IN LAY-IN CEILINGS, DEVICES SHALL BE CENTERED WITHIN CEILING TILES. WHEN INSTALLED IN GYPSUM BOARD CEILINGS, DEVICES SHALL BE COORDINATED AND ALIGNED WITH THE WORK OF OTHER TRADE CONTRACTORS.
- 10. COORDINATE INSTALLATION OF WORK ABOVE EXISTING CEILINGS THAT ARE NOT INDICATED TO BE REMOVED AS PART OF THIS PROJECT. REMOVE, STORE, AND REINSTALL EXISTING LAY-IN CEILING TILES AND/OR GRID; AND/OR CUT AND PATCH EXISTING GYPSUM BOARD CEILINGS AS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- 11. COORDINATE AND SCHEDULE ALL SHUTDOWNS OF EXISTING UTILITIES TWO WEEKS IN ADVANCE WITH THE OWNER. ALL OR SOME OF THIS WORK MAY HAVE TO BE PERFORMED DURING OFF-HOURS (NIGHTS AND WEEKENDS). INCLUDE OVERTIME LABOR FOR OFF-HOURS WORK IN THE BASE BID.
- 12. EXISTING AREAS OF THE FACILITY (WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS) DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 13. EXISTING SYSTEM COMPONENTS INDICATED ON THE DRAWINGS ARE BASED ON CURSORY FIELD INVESTIGATIONS AND EXISTING DRAWINGS, AND MAY OR MAY NOT BE LOCATED OR LABELED CORRECTLY. EXAMINE ALL AREAS OF THE PROJECT AND FIELD IDENTIFY / VERIFY ALL SYSTEM COMPONENTS PRIOR TO COMMENCING DEMOLITION OR NEW CONSTRUCTION. IDENTIFICATION AND VERIFICATION SHALL INCLUDE TRACING EACH SYSTEM COMPONENT TO DETERMINE ITS EXACT ORIGIN AND THE AREA OR EQUIPMENT THE SYSTEM COMPONENT SERVES. REPORT TO THE ARCHITECT AND/OR ENGINEER ALL SUCH DISCOVERIES OF SYSTEM COMPONENTS THAT ARE UNIDENTIFIED OR ARE FOUND TO BE IN A DIFFERENT LOCATION FROM THAT INDICATED.
- 14. UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE ALL SYSTEM COMPONENTS INDICATED ON THE DEMOLITION DRAWINGS. UNLESS NOTED OTHERWISE, ALL SYSTEM COMPONENTS SHALL BE REMOVED BACK TO THE SOURCE AND CAPPED APPROPRIATELY.
- 15. DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE. TAKE ALL NECESSARY MEASURES TO PREVENT THE ARBITRARY INTERRUPTION OR DESTRUCTION OF CONCEALED SYSTEM COMPONENTS THAT ARE TO REMAIN OPERATIONAL, AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL THE COMMENCEMENT OF DEMOLITION WORK.
- 16. EXISTING SYSTEM COMPONENTS INDICATED TO BE RELOCATED AND/OR REUSED SHALL BE INSPECTED FOR PROPER OPERATION, THOROUGHLY CLEANED, AND PREPARED FOR
- 17. THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS NOT DESIRED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE.
- 18. SYSTEM COMPONENTS SERVING AREAS OF THE PROJECT OCCUPIED BY THE OWNER DURING CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA.
- 19. ALL AFF/AFG DIMENSIONS ARE REFERENCED TO THE CENTER OF THE EQUIPMENT OR DEVICE UNLESS NOTED OTHERWISE.
- 20. HVAC DESIGN IS IN ACCORDANCE WITH ASHRAE STANDARD 170-2013, VENTILATION OF HEATLH CARE FACILITIES.
- 21. DUCTWORK AND PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC. ACTUAL LOCATIONS MAY VARY DEPENDING ON SPACE REQUIREMENTS. COORDINATE DUCTWORK AND PIPING INSTALLATIONS WITH OTHER TRADES AND ADJUST LOCATIONS AS NECESSARY. PROVIDE ADDITIONAL OFFSETS AND FITTINGS IF/AS REQUIRED.
- 22. MINIMUM SIZE OF FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS IS 14-INCHES SQUARE. FOR DAMPERS INSTALLED IN DUCTS SMALLER THAN 14-INCHES, PROVIDE FIELD FABRICATED DUCT TRANSITIONS ON EACH SIDE OF WALL OR FLOOR AS NECESSARY TO INCREASE DUCT SIZE TO ACCOMMODATE THE MINIMUM DAMPER SIZE AND ITS ASSOCIATED DUCT ACCESS DOORS. ROUND TRANSITION COLLARS FURNISHED WITH THE DAMPERS ARE NOT ACCEPTABLE.
- 23. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT RUNOUTS TO TERMINAL UNITS AND AIR DISTRIBUTION DEVICES SHALL BE THE SAME SIZE AS THE NECK OF THE DEVICE SERVED. SEE EQUIPMENT SCHEDULES FOR SIZES.
- 24. ALL DUCT RUNOUTS TO AIR DISTRIBUTION DEVICES SHALL BE PROVIDED WITH A PREFABRICATED SPIN-IN FITTING AND VOLUME DAMPER (FLEXMASTER MODEL PLAIN FL SPIN-IN FITTING AND RUSKIN MODEL MDRS25 VOLUME DAMPER OR APPROVED EQUAL) FOR CONNECTION TO LOW PRESSURE DUCTWORK. FIELD FABRICATED SPIN-IN FITTINGS AND VOLUME DAMPERS ARE NOT ACCEPTABLE.
- 25. LOCATE GROUPS OF PIPING PARALLEL TO EACH OTHER, SPACED TO PERMIT APPLYING INSULATION WITH A MINIMUM 1-INCH SEPARATION BETWEEN INSULATED PIPING AND SPACED TO PERMIT SERVICING OF VALVES.
- 26. MULTIPLE ROW HYDRONIC COILS SHALL BE PIPED COUNTERFLOW WITH THE COIL SUPPLY CONNECTION LOWER THAN THE RETURN CONNECTION.
- 27. UNLESS NOTED OTHERWISE, PIPING RUNOUTS TO TERMINAL UNITS SHALL BE THE SAME SIZE AS THE REHEAT COIL CONNECTION, BUT NOT LESS THAN 3/4-INCH. SEE EQUIPMENT SCHEDULES FOR SIZES.
- 28. UNLESS NOTED OTHERWISE, PROVIDE TWO-WAY CONTROL VALVES FOR ALL TERMINAL
- 29. REFER TO THE PHASING PLANS ON THE "G" SERIES DRAWINGS FOR PHASING REQUIREMENTS OF THE PROJECT.

■ Engineering ■ Architecture ■ Surveying ■Technology Corporate Office 324 Evans Street Greenville, NC 27858 Tel 252.758.3746 Fax 252.830.3954

www.eastgroup.com Branch Office 4325 Lake Boone Trail, Suite 311 -Raleigh, NC 27607

Tel 919.784.9330 Fax 919.784.9331

■ NC Engineering License No. C-0206 NC Architectural License No. 50213 NC Landscape Architectural License No. C-427







	RUCTION						
	ISSUED FOR CONSTRUCTION						
DATE	12/7/16						
REV	0			Paging Emp			

WORK ORDER NO. 19

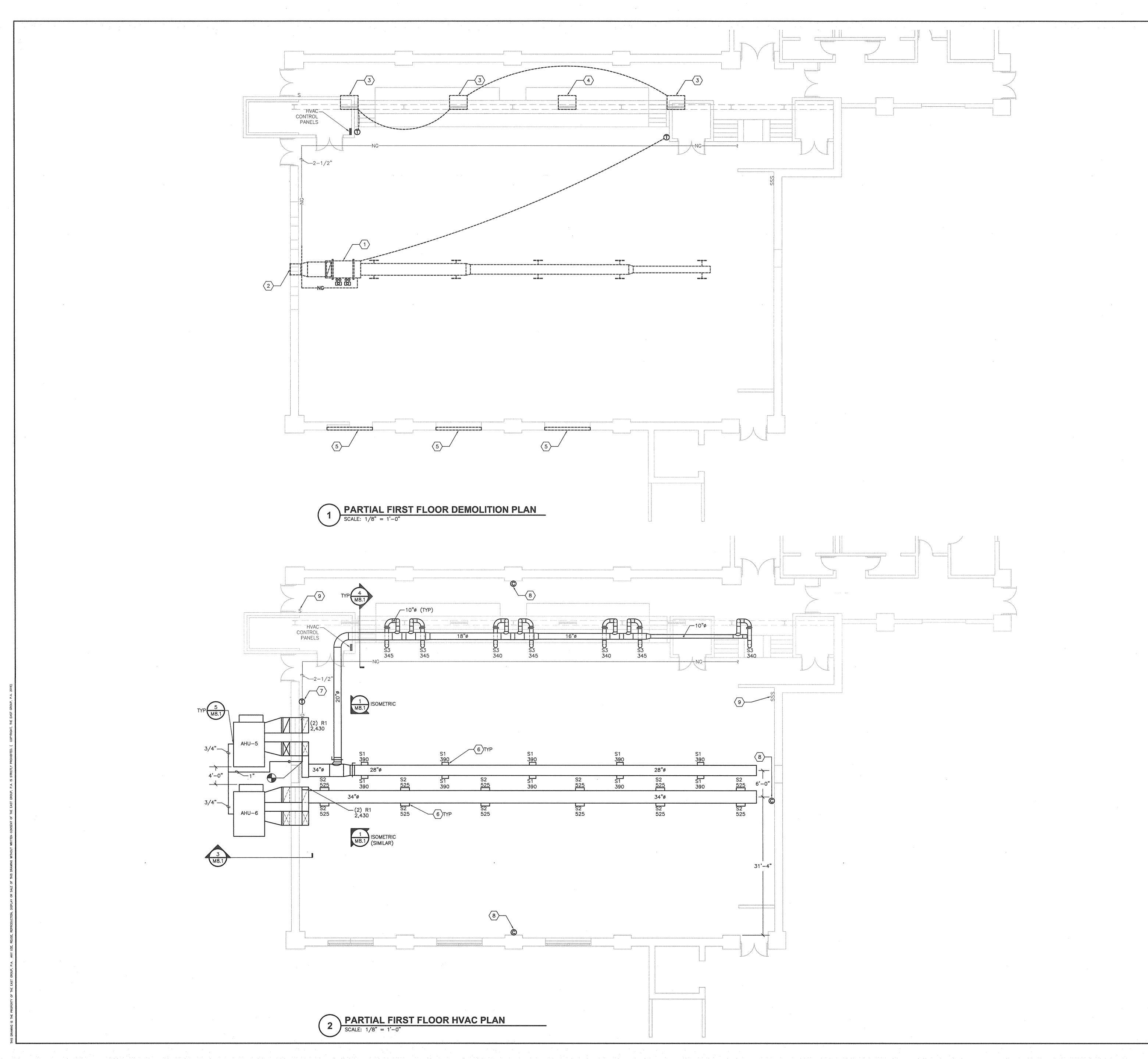
CITY OF GREENVILLE

H. BOYD LEE PARK

HVAC MODIFICATIONS

20160143

MECHANICAL SYMBOLS, ABBREVIATIONS, **NOTES & DETAILS** 





■ Engineering ■ Architecture ■ Surveying ■Technology

Corporate Office 324 Evans Street Greenville, NC 27858

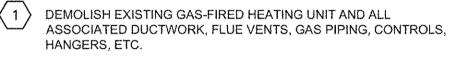
Tel 252.758.3746 Fax 252.830.3954 www.eastgroup.com

Branch Office 4325 Lake Boone Trail, Suite 311 -Raleigh, NC 27607 Tel 919.784.9330 Fax 919.784.9331

 NC Engineering License No. C-0206
 NC Architectural License No. 50213 NC Landscape Architectural License No. C-427







**Keyed Notes** 

(2) EXISTING LOUVER TO REMAIN. PROVIDE SHEET METAL BLANK-OFF PANEL ON BACK OF LOUVER INSULATED WITH 1" FLEXIBLE ELASTOMERIC INSULATION. INSULATION TO BE SANDWICHED BETWEEN LOUVER AND BLANK-OFF PANEL. CLEAN PANEL TO RECEIVE PAINT.

DEMOLISH EXISTING EXHAUST FAN, RAIN HOOD, CONTROLS, ETC.

4 DEMOLISH EXISTING BAROMETRIC RELIEF VENT AND RAIN HOOD.

5 DEMOLISH EXISTING INTAKE DAMPER, GRILLE, CONTROLS, ETC. 6 MOUNT DIFFUSERS FACING DOWN AT 45° FROM HORIZONTAL.

PROVIDE NEW WALL-MOUNTED TEMPERATURE SENSOR AT 48"
AFF AND CONNECT TO EXISTING CENTRAL CONTROL SYSTEM,
PROVIDE HEAVY DUTY WIRE CAGE FOR PROTECTION.

PROVIDE NEW WALL-MOUNTED CARBON DIOXIDE SENSOR AT 60"
AFF AND CONNECT TO EXISTING CENTRAL CONTROL SYSTEM.
PROVIDE HEAVY DUTY WIRE CAGE FOR PROTECTION.

9 EXISTING LIGHT SWITCH TO BE USED BY CENTRAL CONTROL SYSTEM FOR DETERMINING OCCUPIED/UNOCCUPIED MODES FOR HVAC SYSTEM. SEE SPECIFICATION 15900.

		C	20	W SES	AL)		•	
茮	DWP							
	≥							

ВҮ	DCM										
DESCRIPTION	ISSUED FOR CONSTRUCTION										
DATE	12/7/16	urbarrandaran faran adal di denerandra uskilifet (AAA) en deskalatii (AAA)		Printing and the second	Principles des seus aux des des seus des des seus des des seus des des seus des seux des seus						
REV	0										
TEG	PRO	JECT	NO.	2	016	014	3	************	eperanteark	ang karah satu	o de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela c

WORK ORDER NO. 19

CITY OF GREENVILLE H. BOYD LEE PARK HVAC MODIFICATIONS

PARTIAL FIRST FLOOR DEMOLITION & HVAC PLANS

	***************************************		***************************************	***************************************						keensistä kunneen ja kasta kokseput kelusesta kei kahalaksista kunnangas kooneensa ala	Attoricus en grande la programa popular de programa de programa de programa de programa de programa de programa	***************************************	ROOFTOP UNIT SCH	EDULE				***************************************		<del>*************************************</del>	<u> </u>	rinkinkok kindenki Mir Al-Kriminkok inkin nyonokonokok, sovjeni antok historia sina senindo s	isticaj kietotos (2000 november aniveski prikovanova) dipologija prikovani pologija na provincija na prikovanov Prikova	and a series of the series and respect to the series of th		West of the second section of the second
		IR FLOW	OUTSIDE AID	-	FAN		coo	LING			HEATING			AUXILIA	ARY HEATING			UMINIM	M EFFICIENCY	•			ELECTRICAL	AND THE REAL PROPERTY OF THE P		
SYMBOL	All	(CFM)	FLOW (CFM)	ESP (IN WG)	MOTOR SIZE (HP)	OUTDOOR TEMPERATURE (*F DB)	EAT (F DB / F WB)	MINIMUM TOTAL CAPACITY (BTUH)	MINIMUM SENSIBLE CAPACITY (BTUH)	HEATER TYPE	OUTDOOR TEMPERATURE ("F DB)	EAT (°F)	MINIMUM CAPACITY (BTUH)	HEATER SIZE (KW)	MINIMUM CAPACITY (BTUH)	SEER	EER	IEER	HSPF	COP @ 47°F	E,	E. MINIMUM CIRCU AMPACITY (A)	T MAXIMUM CIRCUIT BREAKER SIZE (A)	VOLTS/HZ/PH	MANUFACTURER & MODEL NO. *	REMARKS
AHU-5		6,300	1,440	1.0	5	93.1	79.1 / 67.8	190,300	122,500	NATURAL GAS	14.8	57.4	122,300				11.8	12.2	***		80	- 45	50	460/60/3	TRANE YZH210	
AHU-6		6,300	1,440	1.0	5	93.1	79.1 / 67.8	190,300	122,500	NATURAL GAS	14.8	57.4	122,300				11.8	12.2	NAME OF THE PROPERTY OF THE PR		80	- 45	50	460/60/3	TRANE YZH210	_

\* SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

REQUIRED

DUCT SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

MINIMUM 3" EMBEDMENT.

2. DUCT SUPPORTS SHALL BE ATTACHED TO

EXISTING CMU WALL USING 3/8" HILTI KWIK BOLT 3 HDG EXPANSION ANCHORS WITH

2 DUCT SUPPORT

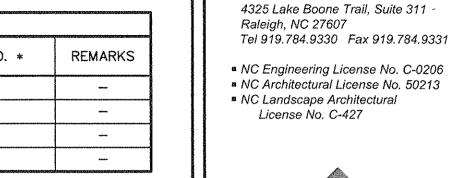
₽" PLATE ~

			DIFFUSER & GRILLE	SCHEDULE	
SYMBOL	MODULE SIZE (IN)	NECK SIZE (IN)	AIR FLOW RANGE (CFM)	MANUFACTURER & MODEL NO. *	REMARKS
S1	18x6	18x6	0-420	PRICE HCD1	
S2	24x6	24×6	0-600	PRICE HCD1	-
S3	18x4	18x4	0-360	PRICE 920	
R1	30x24	30x24	0-2,600	PRICE 96	****

APPLIANCE -

UNION (TYP)

BALL VALVE (TYP)-





■ Engineering ■ Architecture ■ Surveying ■Technology

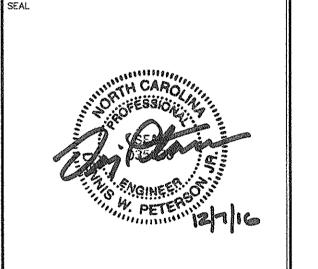
Tel 252.758.3746 Fax 252.830.3954

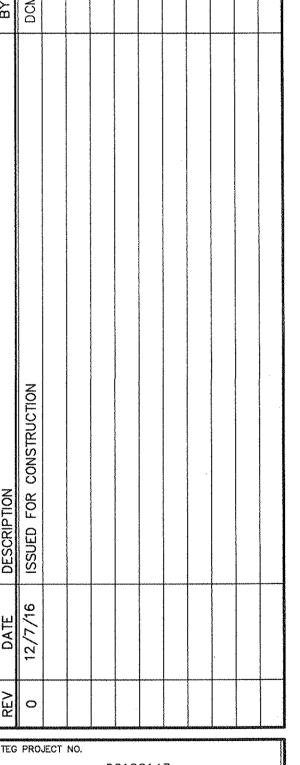
Corporate Office 324 Evans Street Greenville, NC 27858

Branch Office

www.eastgroup.com







20160143 CLIENT PROJECT NO.

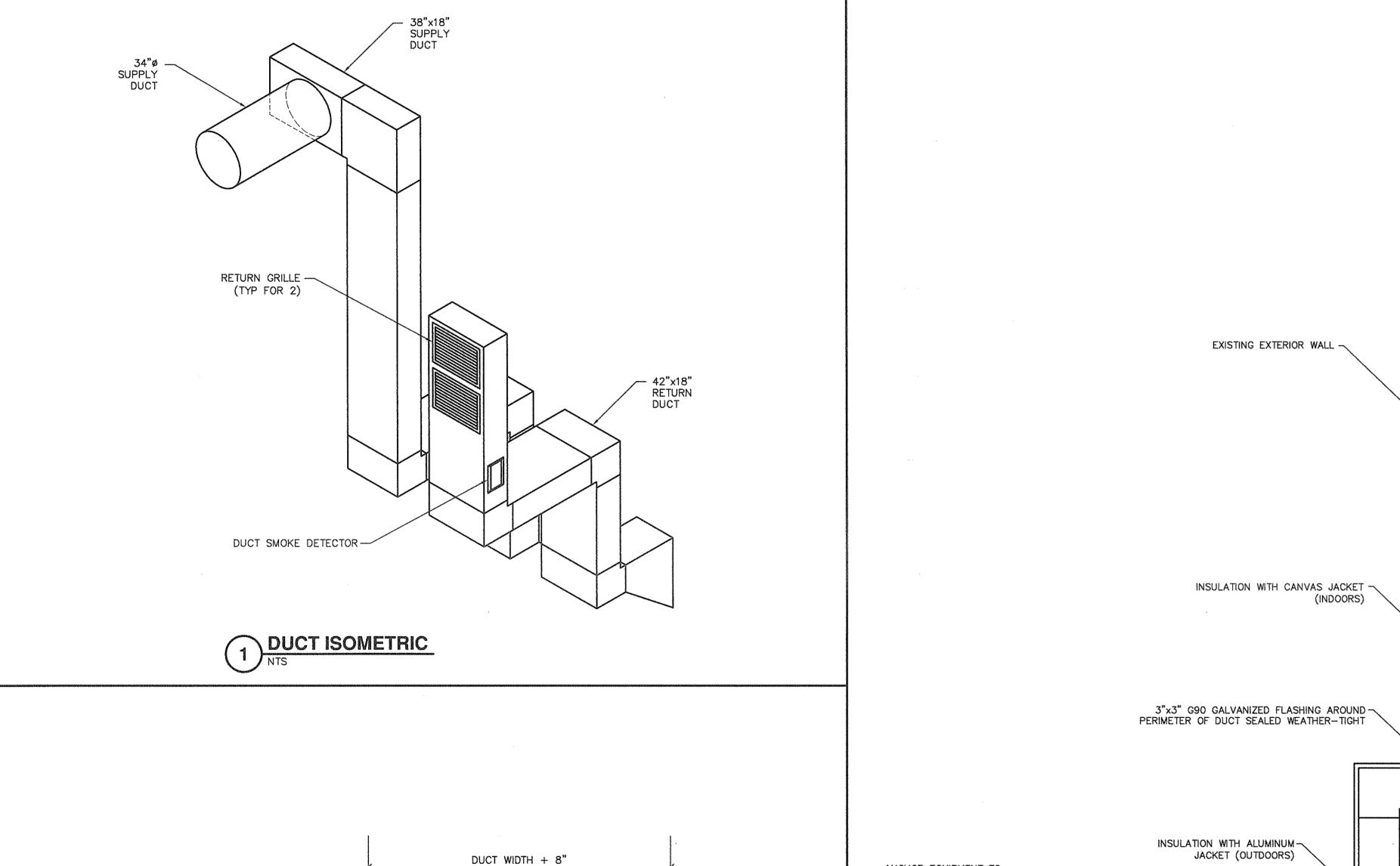
CITY OF GREENVILLE H. BOYD LEE PARK

WORK ORDER NO. 19

HVAC MODIFICATIONS

SCHEDULES, **DETAILS &** 

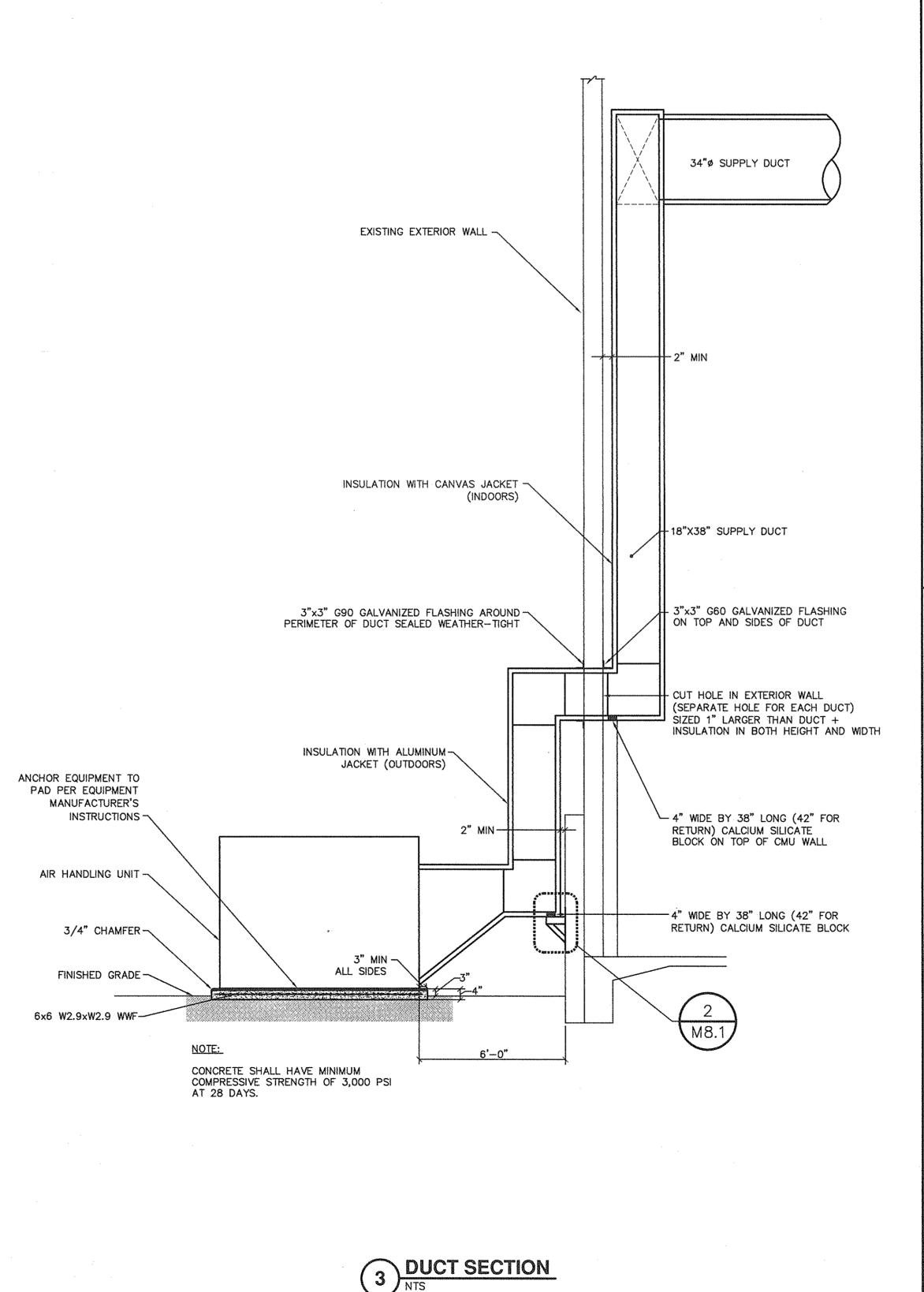
SECTIONS

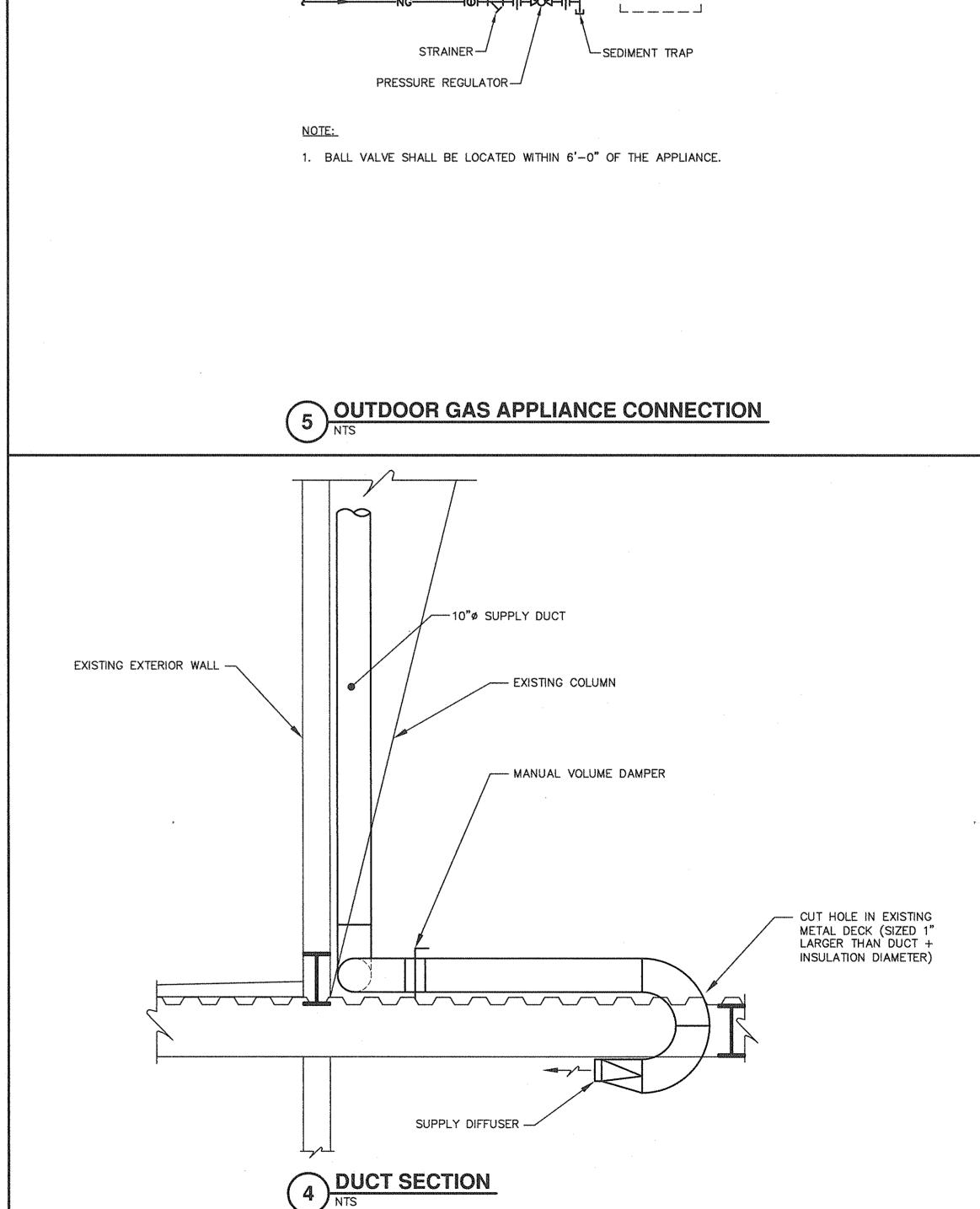


DUCT WIDTH + 4"

-L2x2x1

► 78" HOLE FOR ANCHOR (TYP)





<sup>\*</sup> SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

	ELECTRICAL CYMROLC
	ELECTRICAL SYMBOLS
$\mathcal{Q}$	WALL MTD LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
$\bigcirc$	CEILING/PENDENT MTD/RECESSED LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
	WALL MTD EXIT SIGN AND OUTLET
<b>♥ ▼</b>	CEILING MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES
	CEILING MTD EXIT SIGN AND OUTLET, DOUBLE FACE. ARROW INDICATES
<b>®</b>	DIRECTION
Y	COMBINATION EMERGENCY/EXIT LIGHT; CEILING-MOUNTED; SHADED PORTION INDICATES FACE(S) WITH DIRECTIONAL ARROWS AS SHOWN; SEE LIGHT FIXTURE SCHEDULE
<u> </u>	WALL MTD FLUORESCENT LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE - NORMAL POWER
$\nabla \nabla \nabla$	CEILING MOUNTED TRACK LIGHTING
- F o	CEILING MTD OR LAY-IN TYPE FLUORESCENT LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE
MA-A8	EMERGENCY LIGHT BATTERY PACK - TWO HEAD UNIT FLOODLIGHT AND OUTLET
	AREA LUMINAIRE AND STANDARD
	BOLLARD LIGHT FIXTURE
P	WALL MTD OUTLET BOX WITH BLANK COVER
<u> </u>	CEILING MTD OR A.F.C. OUTLET BOX WITH BLANK COVER
0	CEILING MTD OR A.F.C. OUTLET BOX WITH BLANK COVER DATA
$\Phi_{xx}$	FLUSH MTD DUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W
	MODIFIERS:  GF = GROUND FAULT RECEPTACLE  TR = TAMPER RESISTANT RECEPTACLE
<b>⊕</b>	WP = WEATHERPROOF COVER  FLUSH MTD QUADRUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W.
₩xx	FLUSH MTD DUPLEX RECEPTACLE AND OUTLET 20A, 125V, 3W,
Pxx	INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.  FLUSH MOUNTED QUADRUPLEX RECEPTACLE AND OUTLET 20A, 125V,
₩xx	3W, INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
Φ	FLOOR MTD OUTLET WITH DUPLEX RECEPTACLE AND FITTING, 20A, 125V, 3W
	MULTI OUTLET ASSEMBLY
$\mathfrak{D}_{X}$	SPECIAL OUTLET WITH NEMA DESIGNATION
Såx	SINGLE POLE SWITCH ON NORMAL CIRCUIT; WALL-MOUNTED AT 48"  AFF UNO; WHERE SHOWN, "a" INDICATES LAMPS CONTROLLED BY  SWITCH; WHERE SHOWN, "XX" INDICATES MODIFIER AS LISTED BELOW;  SEE WIRING DEVICE SCHEDULE  MODIFIERS:  3 = 3-WAY SWITCH  4 = 4-WAY SWITCH
	D = DIMMER SWITCH WP = WEATHERPROOF COVER T = TIMER SWITCH O = OCCUPANCY SENSING
GL	GRAPHIC DIGITAL LIGHTING CONTROL PANEL
GW	GATEWAY DIGITAL LIGHTING CONTROL NETWORK PANEL
₩ ₩	WALL MTD TELEPHONE OUTLET WITH 1"C FROM OUTLET TO CORRIDOR ACCESSIBLE CEILING SPACE  • DENOTES INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
♥ ▽	WALL MTD DATA OUTLET WITH 1"C FROM OUTLET TO CORRIDOR ACCESSIBLE CEILING SPACE  • DENOTES INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.
<b>♥ V</b>	COMBINATION TELEPHONE AND DATA OUTLET WITH 1"C FROM OUTLET TO CORRIDOR ACCESSIBLE CEILING SPACE  • DENOTES INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO
	BACKSPLASH EXISTS.  FLOOR MTD TELEPHONE OUTLET WITH OUTLETS AND CABLES
	FLOOR MTD DATA OUTLET WITH OUTLETS AND CABLES
V	COMBINATION TELEPHONE AND DATA FLOOR OUTLET, 1 GANG, 3/4" TO
	ACCESSIBLE CEILING SPACE WITH OUTLETS AND CABLES  PATIENT MONITOR WALL OUTLET W/ 4"/16" SQ. BOX, ONE GANG
✓D	PLASTER RING WITH 1 1/4"C TO CABLE TRAY  WALL MTD DICTATION OUTLET WITH 3/4" TO CEILING SPACE
[W]	WALL MID DICIATION OUTLET WITH 3/4 TO CEILING SPACE WIRELESS CEILING MOUNT
	BASKET TYPE CABLE TRAY- CONT. (TYP) SHOWN BROKEN FOR
SWEETS ACT AND STATE OF THE STA	CLARITY ONLY.
Jacobson transcription and the state of the	PANELBOARD, FLUSH MOUNTED  PANELBOARD, SURFACE MOUNTED
Secretaria de secretaria de ser esta esta esta esta esta esta esta esta	CONCEALED RACEWAY. INDICATES A MINIMUM OF 2 #12 AND 1 #12 GROUND 3/4" CONDUIT. (PROVIDE ALL SWITCHED AND NON SWITCHED
	CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)  CONCEALED RACEWAY. INDICATES A MINIMUM HOMERUN TO PANEL WITH 2#12 AND 1#12 GROUND IN 3/4" CONDUIT. (PROVIDE ALL SWITCHED
24	AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)  CONCEALED RACEWAY. INDICATES A MINIMUM OF 2 #12, 2#12 NEUTRAL AND 1 #12 GROUND 3/4" CONDUIT. (PROVIDE ALL SWITCHED AND NON
2,4	SWITCHED CONDUCTOR'S AS REQUIRED BY SWITCHING SHOWN ON PLANS)  CONCEALED RACEWAY. INDICATES A MINIMUM 3#12, 3#12 NEUTRAL AND 1#12 GROUND IN 3/4"C. 3#12, 1#12 NEUTRAL AND 1#12 GROUND IN
N-2,4,6 3 #8, 1 #10G.	3/4"C. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)  CONCEALED RACEWAY. ALL RACEWAYS WITH OTHER THAN #12
- 1°C	CONDUCTORS WILL HAVE WIRE AND CONDUIT SIZES DESIGNATED ON PLAN OR RISER DIAGRAMS.  CONCEALED RACEWAY INSTALLED IN OR UNDER FLOOR OR GROUND.
	INDICATES A MINIMUM 1#12, 1#12 NEUTRAL AND 1#12 GROUND IN 3/4" CONDUIT. (PROVIDE ALL SWITCHED AND NON SWITCHED CONDUCTORS AS REQUIRED BY SWITCHING SHOWN ON PLANS)  RACEWAY NOTES:
	1. IF NO HOME RUN OR CIRCUIT SYMBOL IS SHOWN, PROVIDE 2#12, 1#12G-3/4"C TO THE CIRCUIT NUMBER INDICATED ADJACENT TO

ELECTRICAL ABBREVIATIONS ROUND, DIAMETER OR PHASE NUMBER OF CONDUCTORS **AMPERES** ALTERNATING CURRENT AMP FRAME ABOVE FINISHED CEILING ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPABILITY AMERICAN NATIONAL STANDARDS INSTITUTE AMP TRIP ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAGE CATV COMMUNITY ANTENNA TELEVISION SYSTEM CB CIRCUIT BREAKER CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION SYSTEM CPT CONTROL POWER TRANSFORMER CT'S CURRENT TRANSFORMERS CLOSED TRANSITION TRANSFER SWITCH COPPER EQUIPMENT GROUNDING CONDUCTOR ELECTRICAL METALLIC TUBING EMERGENCY POWER OFF EXISTING RELOCATE FUSED FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS FINISHED FLOOR ELEVATION FULL LOAD AMPS FLEXIBLE METAL CONDUIT FULL VOLTAGE NON-REVERSING GEC GROUNDING ELECTRODE CONDUCTOR GREENFIELD GROUND FAULT INTERRUPTER GROUND HAND-OFF-AUTOMATIC HORSEPOWER HIGH PRESSURE SODIUM HEATING, VENTILATING AND AIR CONDITIONING INTERMEDIATE METAL CONDUIT ISOLATED GROUND KILOVOLT KILOVOLT AMPERE KILOWATT MASTER ANTENNA TELEVISION SYSTEM MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR METAL HALIDE MAIN LUG ONLY NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NON-FUSED NATIONAL FIRE PROTECTION AGENCY NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE PULL BOX RIGID METAL CONDUIT SERVICE ENTRANCE SINGLE POLE DOUBLE THROW SPST SINGLE POLE SINGLE THROW STAINLESS STEEL SWGR SWITCHGEAR SWITCHBOARD TTB TELEPHONE TERMINAL BOARD TYPICAL TELEVISION UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE WEATHERPROOF EXPLOSION PROOF  $Y-\Delta$ WYE-DELTA

ELECTRICAL SYMBOLS

VOLTAGE PER CIRCUIT FED.

FURNISHED DISCONNECT

ENCLOSED CIRCUIT BREAKER

VARIABLE FREQUENCY DRIVE

A.C. MOTOR, NUMERAL INDICATES HP

EMERGENCY POWER OFF BUTTON

**EQUIPMENT CONNECTION** 

DRY TYPE TRANSFORMER

REMOTE INDICATOR LAMP

FIRE ALARM DOOR HOLD OPEN

FIRE ALARM CONTROL PANEL

WALL MTD FIRE ALARM PULL STATION

ELECTRIC BELL FOR FIRE SPRINKLER

FIRE ALARM ANNUNCIATOR PANEL

WALL MOUNTED WITH 15CD, UNO STROBE

RESTROOM WHICH ARE 15CD ALARM

FIRE ALARM REMOTE CONTROL RELAY

CCTV PAN TILT CAMERA LOCATION

SMOKE DETECTOR, CEILING MTD.

SMOKE DETECTOR, DUCT MTD

EMERGENCY DOOR RELEASE

SECURITY DOOR DETECTOR

DOOR STATUS SWITCH

MAGNETIC DOOR LOCK

SECURITY KEY PAD

DOOR PUSH PAD OPENER

KEY OVERRIDE SWITCH

DOOR EXIT REQUEST HARDWARE

DOOR RELEASE BUTTON AT NURSE STATION.

ELECTRIC MORTISE WITH ELECTRIC HINGE

ELECTRONIC PUSH BUTTON ACCESS LOCK

VERTICAL RODS WITH PANIC DEVICE

GENERAL PAGING SPEAKER LOCATION

D DENOTES DEPARTMENTAL PAGING SPEAKER

FLUSH MTD VOLUME CONTROL FOR SPEAKER

MOTION/OCCUPANCY SENSOR

COLOR MASTER MONITOR

INTERCOM STATION

TELEVISION OUTLET

SURGE ARRESTOR

TRANSFER SWITCH

GROUND PER NEC

CONTACTOR

CEILING MOUNTED WITH 15CD, UNO HORN/STROBE

FIRE ALARM STROBE LIGHT WITH 75CD, UNO EXCEPT FOR ALL

DOOR SECURITY CARD READER; WALL MOUNTED AT 48" AFF

ELECTRIC STRIKE WITH STOREROOM FUNCTION MORTISE LOCK

SEMI-FLUSH MOUNTED PAN TILT COLOR DOOR STATION

PHOTOCELL, 2000 WATT UNLESS NOTED OTHERWISE

RELAY

TAMPER SWITCH

FLOW SWITCH

BUZZER BELL

PUSH BUTTON

CONTROL MODULE

MONITOR MODULE

PANIC BUTTON

MOTORIZED DOOR

CALL BOX

DOOR LOCK

-фсв

PRESSURE SWITCH

MAGNETIC MOTOR STARTER

POLES AND VOLTAGE PER CIRCUIT FED.

POLES AND VOLTAGE PER CIRCUIT FED.

MANUAL MOTOR STARTER WITH OVERLOAD HEATERS

30 AMP NON-FUSED DISCONNECT SWITCH, NUMBER OF POLES AND

30 AMP FUSED DISCONNECT SWITCH, FUSED AT 20 AMP. NUMBER OF

30 AMP NON-FUSED, WEATHERPROOF DISCONNECT SWITCH. NUMBER OF

COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER

## GENERAL NOTES

- 1. NOT ALL SYMBOLS & ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED FOR THIS PROJECT.
- UNLESS OTHERWISE NOTED, EACH TRADE CONTRACTOR IS RESPONSIBLE FOR CUTTING, CORE DRILLING, PATCHING, ETC. TO INSTALL HIS RESPECTIVE WORK.
- 3. COORDINATE WORK OF THIS TRADE WITH OTHER TRADE CONTRACTORS.
- 4. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) IN ACCORDANCE WITH THE UL LISTED SYSTEMS SHOWN "G" SERIES DRAWINGS.
- 5. SEAL ALL PIPING AND/OR CONDUIT PENETRATIONS THROUGH NON-RATED ASSEMBLIES (WALLS, PARTITIONS, FLOORS, ETC.) TO REDUCE TRANSFER OF SOUND THROUGH THE ASSEMBLIES. GYPSUM WALLBOARD "MUD" MAY BE USED TO SEAL GAPS NOT EXCEEDING 1/2- INCH.
- 6. EXAMINE THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF THIS PROJECT; INCLUDING DEMOLITION WORK.
- 7. SYSTEM COMPONENTS INDICATED TO BE DEMOLISHED ARE BASED ON CURSORY FIELD INVESTIGATIONS AND EXISTING DRAWINGS. SYSTEM COMPONENTS SHOWN ON THE DEMOLITION DRAWINGS MAY OR MAY NOT BE LOCATED OR LABELED CORRECTLY. EXAMINE ALL AREAS THAT ARE INDICATED FOR DEMOLITION WORK AND FIELD IDENTIFY AND VERIFY ALL SYSTEM COMPONENTS PRIOR TO COMMENCING DEMOLITION OR NEW CONSTRUCTION. IDENTIFICATION AND VERIFICATION SHALL INCLUDE TRACING EACH SYSTEM COMPONENT TO DETERMINE ITS EXACT ORIGIN AND THE AREA OR EQUIPMENT THE SYSTEM COMPONENT SERVES.
- 8. DEMOLITION WORK SHALL BE PERFORMED WITH DUE CARE AND DILIGENCE. TAKE ALL NECESSARY MEASURES TO PREVENT THE ARBITRARY INTERRUPTION OR DESTRUCTION OF CONCEALED SYSTEM COMPONENTS THAT ARE TO REMAIN OPERATIONAL, AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL THE COMMENCEMENT OF DEMOLITION WORK. REPORT TO THE ARCHITECT AND/OR ENGINEER ALL SUCH DISCOVERIES OF SYSTEM COMPONENTS DURING DEMOLITION THAT ARE UNIDENTIFIED OR ARE FOUND TO BE IN A DIFFERENT LOCATION FROM THAT INDICATED.
- 9. SYSTEM COMPONENTS SERVING AREAS OF THE PROJECT OCCUPIED BY THE OWNER DURING CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA.
- 10. COORDINATE DEMOLITION WORK WITH OTHER TRADE CONTRACTORS AND THE OWNER. SOME DEMOLITION WORK MAY HAVE TO BE PERFORMED DURING OFF—HOURS (NIGHTS AND WEEKENDS). SCHEDULE ALL OFF—HOURS WORK IN ADVANCE WITH THE OWNER. INCLUDE OVERTIME LABOR FOR OFF—HOURS WORK IN THE BASE BID.
- 11. THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS NOT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
- 12. EXISTING AREAS OF THE FACILITY (WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS) DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 13. COORDINATE AND SCHEDULE ALL SHUTDOWNS OF EXISTING UTILITIES TWO WEEKS IN ADVANCE WITH THE OWNER. ELECTRICAL SHUTDOWN WILL LIKELY BE AT NIGHTS AND ON WEEKENDS
- 14. REFER TO G SERIES DRAWINGS FOR CONSTRUCTION PHASING.

ON ARCHITECTURAL ELEVATIONS OR CASEWORK DETAILS.

- 15. NOTIFY THE OWNER ONE WEEK PRIOR TO WORK IN ANY ELECTRICAL PANELS, SWITCHGEAR, OR EQUIPMENT.
- 16. MOUNTING HEIGHTS GIVEN IN THE ELECTRICAL SPECIFICATIONS ARE TO THE CENTERLINE OF THE DEVICE AND SHALL BE FOLLOWED UNLESS OTHERWISE NOTED AT THE SYMBOL,
- 17. IN GENERAL ALL ELECTRICAL CONDUIT WILL BE RUN JUST BELOW THE BOTTOM OF STRUCTURAL BEAMS. OFFSET ELECTRICAL CONDUIT TO AVOID INTERFERENCE WITH DUCTWORK, OR MECHANICAL PIPING. COORDINATE CONDUIT AND RACEWAY LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 18. ALL 20 AMP 120V POWER HOME RUNS GREATER THAN 75 FT. SHALL BE #10 AWG
- 19. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 AND NFPA 70E.
- 20. CONSTRUCTION PROCEDURES AND/OR EQUIPMENT SHALL NOT BLOCK ACCESS OR NEC ARTICLE 110 REQUIRED WORKING SPACE FOR NEW OR EXISTING ELECTRICAL PANELS,
- SWITCHGEAR, OR EQUIPMENT.

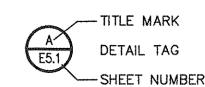
  21. ELECTRICAL BOXES IN RATED WALL OPENINGS: OPENINGS IN ASSEMBLIES OF 2 HOURS OR LESS, FOR METALLIC ELECTRICAL BOXES NOT EXCEEDING 16 SQ. INCHES ARE PERMITTED PROVIDED THE AREA OF SUCH OPENINGS DOES NOT AGGREGATE MORE THAN 100 SQ. IN. FOR ANY 100 SQ. FT. OF FIRE RESISTANT WALL AREA OR SHAFT ENCLOSURE WALL AREA. THE WALLBOARD FACE MUST BE CUT SO THAT THE CLEARANCE FROM THE ELECTRICAL BOX DOES NOT EXCEED 1/8 INCH. OUTLET BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT ENCLOSURE SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES, OR BE
- 22. REFEED ALL AREAS DOWNSTREAM OF DEMOLITION AREAS. WHEN ANY PORTION OF A POWER, LIGHTING, OR COMMUNICATION CIRCUIT OR SYSTEMS IS REMOVED, EVEN TEMPORARILY DURING CONSTRUCTION, THE DOWNSTREAM DEVICES SHALL BE RECONNECTED AND RETESTED TO ENSURE FULL AND COMPLETE OPERATION.

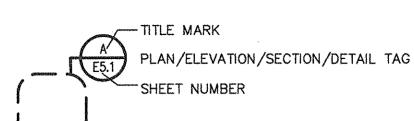
COMPLETELY COVERED WITH 3M PUTTY PADS PER THE UL DETAILS.

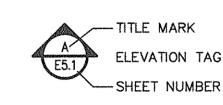
- 23. WHEN ADDING CIRCUIT BREAKERS TO EXISTING PANELS OR SWITCHBOARDS, PROVIDE CIRCUIT BREAKERS OF THE SAME MANUFACTURER OF THE EXISTING PANEL OR SWITCHBOARD, MATCH THE HIGHEST RATED AIC RATING OF ANY EXISTING CIRCUIT BREAKERS IN THE PANEL OR SWITCHBOARDS. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED TO MOUNT THE CIRCUIT BREAKER. PROVIDE DUAL BREAKER MOUNTING HARDWARE TO MOUNT NEW AND ADJACENT EXISTING CIRCUIT BREAKER IF/AS NECESSARY.DRAWINGS INDICATE THE TRIP SIZE OF THE CIRCUIT BREAKER REQUIRED, NOT THE FRAME SIZE. PROVIDE CIRCUIT BREAKER FRAME SIZE TO FIT THE SPACE AVAILABLE, IF THE SPACE AVAILABLE REQUIRES A LARGER FRAME SIZE THAN TRIP RATING CALLED FOR, PROVIDE THE LARGER FRAME SIZE WITH A TRIP UNIT SIZED AS SPECIFIED. PROVIDE ALL BLANK FILLER PLATES AS REQUIRED TO COMPLETELY COVER THE REMAINING PANEL TRIM. RELOCATE EXISTING CIRCUIT BREAKERS AND EXTEND EXISTING CIRCUITS AS REQUIRED TO MAKE ROOM FOR NEW CIRCUIT BREAKER. PROVIDE NEW TYPED PANEL OR SWITCHBOARD SCHEDULE SHOWING ALL PANEL OR SWITCHBOARD CIRCUIT CHANGES. IF CIRCUIT BREAKERS FOR PANEL OR SWITCHBOARDS ARE NO LONGER AVAILABLE FROM THE MANUFACTURER, PROVIDE CERTIFIED REBUILD CIRCUIT BREAKERS. VISIT THE JOBSITE AND INSPECT THE EXISTING PANELS AND SWITCHBOARDS THAT CIRCUIT BREAKERS ARE TO BE ADDED TO PRIOR TO BID. PROVIDE AID OF PANEL OR SWITCHBOARD MANUFACTURE AS REQUIRED TO DETERMINE CORRECT CIRCUIT BREAKER TYPE FOR THE PANEL OR SWITCHBOARD. PROVIDE GROUND FAULT CIRCUIT BREAKER IF OTHER CIRCUIT BREAKERS IN PANEL OF SWITCHBOARD HAVE GROUND
- 24. IN ALL CASES WHERE THE CONDUCTOR SIZE HAS BEEN INCREASED TO COMPENSATE FOR VOLTAGE DROP AND/OR THE CONDUCTOR SIZE IS LARGER THAN THE AVAILABLE LUG SIZE ON A NEW OR EXISTING TERMINATION, PROVIDE A NEC SIZED JUNCTION BOX JUST AHEAD OF THAT TERMINATION AND REDUCE THE WIRE SIZE DOWN TO THE MAXIMUM WIRE SIZE LISTED FOR THE TERMINATION LUG. KEEP THE REDUCED WIRE SIZE LENGTH TO THE MINIMUM LENGTH POSSIBLE. PROVIDE UL LISTED INSULATED IN LINE HYPRESS COMPRESSION SPLICES IN THE JUNCTION BOX WITH HEAT SHRINK INSULATION. SPLIT BOLT SPLICES SHALL NOT BE PERMITTED. DO NOT CUT STRANDS OFF A STRANDED CONDUCTOR TO ALLOW IT TO FIT INTO A LUG. IN ALL CASES THE REDUCED WIRE SIZE SHALL HAVE AMPACITY LARGER THAN THE CIRCUIT BREAKER OR FUSE PROTECTING THE

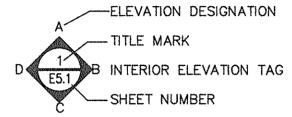
## GENERAL SYMBOLS

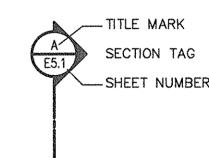
NOTE NUMBER

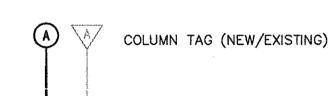


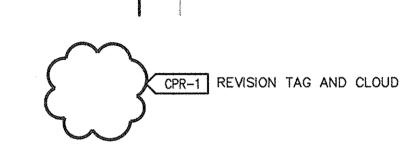












CONNECT TO EXISTING

REMOVE TO THIS POINT

NORTH ARROW

----- EXISTING TO BE REMOVED (ON DEMOLITION PLAN)

EXISTING TO REMAIN (LIGHT LINE TYPE)

NEW WORK (HEAVY LINE TYPE)

### HOURLY RATING

SMOKE PARTITION

1/2 HOUR FIRE BARRIER

1 HOUR FIRE BARRIER

2 HOUR FIRE BARRIER

2 HOUR FIRE RESISTANT RATED SMOKE BARRIER

- G - G - G - ELECTRICAL GROUND WIRE



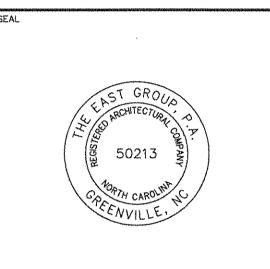
■ Engineering■ Architecture■ Surveying■ Technology

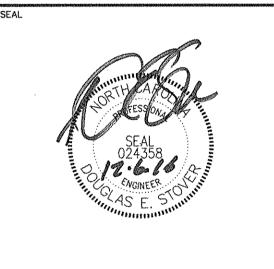
 Corporate Office 324 Evans Street Greenville, NC 27858 Tel 252.758.3746 Fax 252.830.3954 www.eastgroup.com

Branch Office
 4325 Lake Boone Trail, Suite 311 Raleigh, NC 27607
 Tel 919.784.9330 Fax 919.784.9331

 NC Engineering License No. C-0206
 NC Architectural License No. 50213
 NC Landscape Architectural License No. C-427







m m	ပ								
DESCRIPTION	<del> </del>								
DATE	12/7/16							And the second s	
REV	0								
TEG	PRO	JECT	NO.	CONTRACTOR OF THE PARTY OF THE	ahasiwa	***************************************	***********	******	 žina njiga je

20160143

CLIENT PROJECT NO.

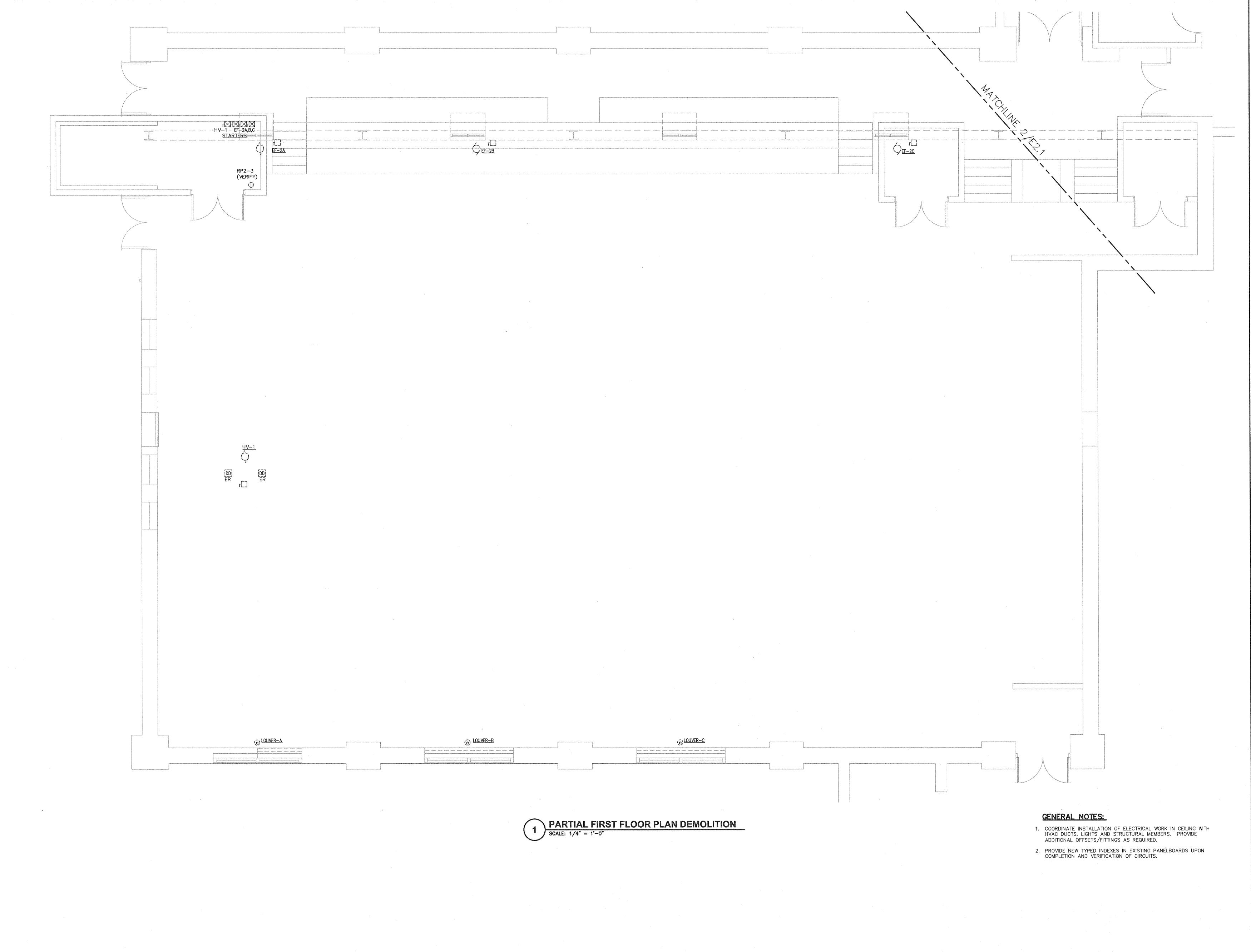
WORK ORDER NO. 19

PROJECT TITLE

CITY OF GREENVILLE H. BOYD LEE PARK HVAC MODIFICATIONS

NG TITLE

ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES





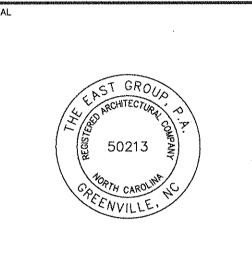
Engineering Architecture ■ Surveying ■Technology

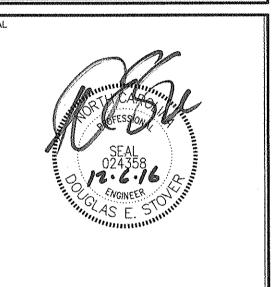
Corporate Office
324 Evans Street
Greenville, NC 27858
Tel 252.758.3746 Fax 252.830.3954 www.eastgroup.com

Branch Office
4325 Lake Boone Trail, Suite 311
Raleigh, NC 27607
Tel 919.784.9330 Fax 919.784.9331

NC Engineering License No. C-0206
 NC Architectural License No. 50213
 NC Landscape Architectural License No. C-427





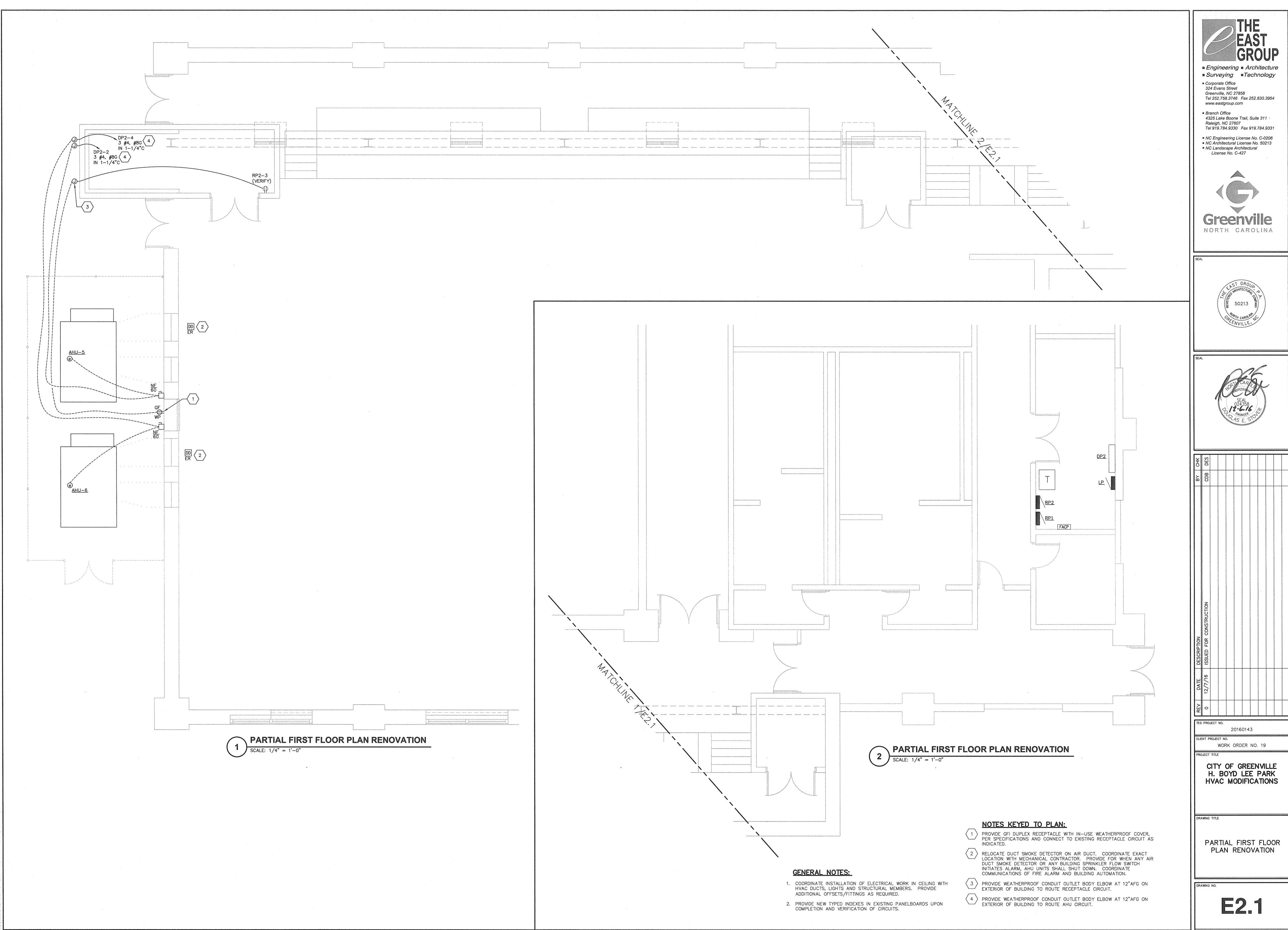


	-	<del></del>	PORTURNING	***************************************	***************************************	***************************************	-	MANERAL MANERAL	SAMILIAN SE	escurio italici
옷	DES									
ВҮ	CDB									
DESCR	ISSUED FOR CONSTRUCTION									
DATE	12/7/16									
					-	<u> </u>				

WORK ORDER NO. 19

CITY OF GREENVILLE H. BOYD LEE PARK HVAC MODIFICATIONS

FIRST FLOOR PLAN DEMOLITION



MOI	UNTING: ☑ WALL ☐ MAIN LUG	S ONLY	M	AIN BU	<u> </u>   A <u>00</u>		•	3 PHASE, 4 WIRE			
MOUNTING: ☑ WALL ☐ MAIN LUGS ONLY MAIN BUS: 60 A TRIP: 600 A						FRAME: N/AA					
CKT	DESCRIPTION		LOAD				UIT BRE	AKER	REMARKS		
NO.	DESCRIPTION	AMPS	KVA KW HP		POLES TRIP		FRAME	TEMARNS			
1	UNK	_	-			3	20				
3	AC-4 - ARCADE	_			_	3	25	_			
5	TVSS	_	<del></del>			3	30				
7	SPARE				_	3	35				
9	AC-1 - ADMINISTRATION AREA			-		3	60				
11	SERVICE DISCONNECT			_	_	3	600	-			
2	∼AHU #5	_	<b></b>	-		3	50				
4	^AHU #6	_				3	50				
6	SPARE	_		-	_	3	30				
8	SPARE	_	****			3	30				
10	SPARE					3	35				
12	PANELS 'RP1' & 'RP2' VIA TRANS #1	-				3	100	-			
14	PANEL 'LP'				-	3	125		RATED 35K AIC @ 480VAC		
		1	···		<b></b>	<u> </u>	****				
			.,.,.,.,		<u> </u>	<b></b>		<b></b>			
					<u> </u>			<u> </u>			
P	ANELBOARD LOCATION: .						MANU	FACTURER	R: .		
	·	<del></del>						L/CAT. NO			
				************				•	ECTRICAL ONE LINE DIAGRAM		
							LECD:	JLL LLL	TO INIOAL ONL LINE DIAGRAM		

- + NEW LOAD ADDED TO EXISTING CIRCUIT BREAKER

  \* EXISTING SPARE CIRCUIT BREAKER TO BE USED

  ~ NEW CIRCUIT BREAKER IN EXISTING SPACE

  ^ NEW CIRCUIT BREAKER, EXISTING CIRCUIT BREAKER TO BE REMOVED

	MECHANICAL EQUIPMENT	DEMAND LOAD (VA)	
	AHU-5	37,412	
	AHU-6	37,412	
	SUB-TOTAL	74,824	
	ELECTRICAL EQUIPMENT	DEMAND LOAD (VA)	
	RECEPTACLE	180	
	LIGHTING	N/A	
	SUB-TOTAL	180	
	LARGEST MOTOR	DEMAND LOAD (VA)	
	AHU-5 (5HP INDOOR MOTOR)	6,319	
		× 25%	
	SUB-TOTAL	1,580	
	TOTAL NEW LOAD (VA)		76,584
В.	DEMAND LOAD - EXISTING TO BE DEMOLISHED		
	ELECTRICAL EQUIPMENT	DEMAND LOAD (VA)	
	RECEPTACLE	0	
	LIGHTING	0	
	SUB-TOTAL	0	
	MECHANICAL EQUIPMENT	DEMAND LOAD (VA)	
		2,744	
	EF-2A,B,C		
	EF-2A,B,C HV-1	11,639	
		11,639 <b>14,383</b>	

BUILDING LOAD SUMMARY



Engineering Architecture

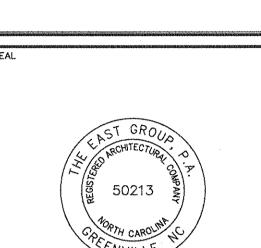
■ Surveying ■Technology Corporate Office
324 Evans Street
Greenville, NC 27858
Tel 252.758.3746 Fax 252.830.3954

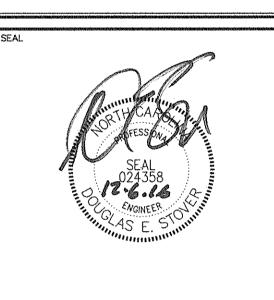
www.eastgroup.com Branch Office 4325 Lake Boone Trail, Suite 311 -

Tel 919.784.9330 Fax 919.784.9331 NC Engineering License No. C-0206
 NC Architectural License No. 50213
 NC Landscape Architectural License No. C-427

Raleigh, NC 27607







1										 	
	DESCRIPTION	ISSUED FOR CONSTRUCTION									
	DESC	ISSUE									
	DATE	12/7/16									
	REV	0									
L	1	PRO	JECT	NO.	2	016	014	3	1		

CITY OF GREENVILLE
H. BOYD LEE PARK
HVAC MODIFICATIONS

SCHEDULES