

Greenville
NORTH CAROLINA



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

NAME OF PROJECT: CITY OF GREENVILLE - H. BOYD LEE PARK HVAC MODIFICATIONS
ADDRESS: 5184 COREY RD., GREENVILLE, NC ZIP CODE: 27858
PROPOSED USE: UNCHANGED
OWNER/AUTHORIZED AGENT: MIKE WATSON PHONE #: (252) 329-4587
OWNED BY: CITY/COUNTY PRIVATE STATE
CODE ENFORCEMENT JURISDICTION: CITY GREENVILLE, NC COUNTY N/A STATE

LEAD DESIGN PROFESSIONAL: DENNIS W. PETERSON, JR., PE E-MAIL: dennis.peterson@eastgroup.com
DESIGNER FIRM NAME LICENSE # TELEPHONE #
ARCHITECTURAL THE EAST GROUP, PA PROCOPIO SERRANO, AIA 13124 (252) 758-3746
CIVIL N/A N/A N/A N/A
ELECTRICAL THE EAST GROUP, PA DOUGLAS E. STOVER, PE 024358 (252) 758-3746
FIRE ALARM N/A N/A N/A N/A
PLUMBING N/A N/A N/A N/A
MECHANICAL THE EAST GROUP, PA DENNIS W. PETERSON, JR., PE 035030 (252) 758-3746
SPRINKLER-STANDPIPE N/A N/A N/A N/A
STRUCTURAL N/A N/A N/A N/A
RTG. WALLS >5' HIGH N/A N/A N/A N/A
LANDSCAPE N/A N/A N/A N/A

2012 EDITION OF NC CODE FOR: NEW CONSTRUCTION ADDITION UPFIT
EXISTING: RECONSTRUCTION ALTERATION REPAIR RENOVATION
CONSTRUCTED (DATE): ORIGINAL USE(S) (CH. 3):
RENOVATED (DATE): CURRENT USE(S) (CH. 3):
PROPOSED USE(S) (CH. 3): UNCHANGED

BUILDING DATA
CONSTRUCTION TYPE: I-A II-A III-A IV V-A I-B II-B III-B V-B
SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
STANDPIPES: NO YES CLASS: I II III WET DRY
FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
BUILDING HEIGHT: FEET: 18
GROSS BUILDING AREA:
FLOOR EXISTING (SQ FT) RENOVATION (SQ FT) NEW (SQ FT) SUB-TOTAL
7th FLOOR
6th FLOOR
5th FLOOR
4th FLOOR
3rd FLOOR
2nd FLOOR
1st 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 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.
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 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.
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:
FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT
ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
REFRIGERANT MACHINE ROOM
HYDROGEN CUTOFF ROOMS, NOT CLASSIFIED AS GROUP H
INCINERATOR ROOMS
PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN A GROUP E OR I-2 OCCUPANCY
LAUNDRY ROOMS OVER 100 SQUARE FEET
GROUP I-3 CELLS EQUIPPED WITH PADDED SURFACES
GROUP I-2 WASTE AND LINEN COLLECTION ROOMS
WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET

ALLOWABLE AREA (CONTINUED)
NOT AFFECTED BY THIS PROJECT.
STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION CAPACITY OF 1000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES
ROOMS CONTAINING FIRE PUMPS
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
GROUP I-2 ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT
SPECIAL USES: 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427
SPECIAL PROVISIONS: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9
MIXED OCCUPANCY: NO YES SEPARATION: 0 HR. EXCEPTION:
INCIDENTAL USE SEPARATION (508.2.5) THIS SEPARATION IS NOT EXEMPT AS A NONSEPARATED USE (SEE EXCEPTIONS).
NONSEPARATED USE (508.3.2) 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. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
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 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
STORY NO. DESCRIPTION AND USE BLDG AREA PER STORY (ACTUAL) (A) TABLE 503.3 AREA (B) AREA FOR FRONTAGE INCREASE (C) AREA FOR SPRINKLER INCREASE (D) ALLOWABLE AREA OR UNLIMITED (E) MAXIMUM BUILDING AREA (F)
1 A-1 16,526 8,500 - 300% 25,500 25,500
1. FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THIS:
a. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (P)
b. TOTAL BUILDING PERIMETER = (P)
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 = (%)
2. THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:
a. MULTI-STORY BUILDING I = 200 PERCENT
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 AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.

ALLOWABLE HEIGHT
THE BUILDING HEIGHT IS NOT AFFECTED BY THIS PROJECT.
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

ALLOWABLE HEIGHT (CONTINUED)
THE BUILDING HEIGHT IS NOT AFFECTED BY THIS PROJECT.
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
NOT AFFECTED BY THIS PROJECT.
BUILDING ELEMENT FIRE SEPARATION DISTANCE (FEET) RATING PROVIDED (W/R REDUCTION) DETAIL # FOR AND SHEET # DESIGN # FOR RATED ASSEMBLY DESIGN # FOR RATED PENETRATION DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES 0 0 - - -
BEARING WALLS EXTERIOR NORTH EAST SOUTH WEST INTERIOR 0 0 - - -
NONBEARING WALLS AND PARTITIONS EXTERIOR NORTH EAST SOUTH WEST INTERIOR 0 0 - - -
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS 0 0 - - -
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS 0 0 - - -
SHAFT ENCL. - EXIT - - - - -
SHAFT ENCL. - OTHER - - - - -
CORRIDOR SEPARATION - - - - -
OCCUPANCY SEPARATION - - - - -
PARTY/FIRE WALL SEPARATION - - - - -
SMOKE BARRIER SEPARATION - - - - -
TENANT SEPARATION - - - - -
INCIDENTAL USE SEPARATION - - - - -
* INDICATE SECTION NUMBER PERMITTING REDUCTION

LIFE SAFETY SYSTEM REQUIREMENTS
LIFE SAFETY SYSTEMS ARE NOT AFFECTED BY THIS PROJECT.
EMERGENCY LIGHTING: NO YES
EXIT SIGNS: NO YES
FIRE ALARM: NO YES
SMOKE DETECTION SYSTEMS: NO YES PARTIAL
PANIC HARDWARE: NO YES

LIFE SAFETY PLAN REQUIREMENTS
LIFE SAFETY SYSTEMS ARE NOT AFFECTED BY THIS PROJECT.
LIFE SAFETY PLAN SHEET #: N/A
FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
ASSUMED AND REAL PROPERTY LINE LOCATIONS
EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.B)
EXISTING STRUCTURES WITHIN 30 FEET OF THE PROPOSED BUILDING
OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.1)
OCCUPANT LOADS FOR EACH AREA
EXIT ACCESS TRAVEL DISTANCES (1016)
COMMON PATH OF TRAVEL DISTANCES (1014.3 & 1028.B)
DEAD END LENGTHS (1018.4)
CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)
ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10)
LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1008.1.9.7)
LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8)
LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
LOCATION OF EMERGENCY ESCAPE WINDOWS (1029)
THE SQUARE FOOTAGE OF EACH FIRE AREA (902)
THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.4)
NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBILITY PARKING (SECTION 1106)
PARKING REQUIREMENTS ARE NOT AFFECTED BY THIS PROJECT. NO CHANGE IN PARKING COUNT.
LOT OR PARKING AREA TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # ACCESSIBLE PROVIDED
REQUIRED PROVIDED REGULAR WITH 5' ACCESS AISLE VAN SPACES WITH 132" AISLE 8' AISLE
1 1 1 1 1 1 1 1 1 1

STRUCTURAL DESIGN
ALL CONSTRUCTION OCCURS WITHIN THE EXISTING STRUCTURAL FRAME. THERE ARE NO STRUCTURAL MODIFICATIONS OR NEWLY IMPOSED LOADS ON THE STRUCTURAL FRAME.
DESIGN LOADS:
IMPORTANCE FACTORS: WIND (I_w): SNOW (I_s): SEISMIC (I_s):
LIVE LOADS: ROOF: MEZZANINE: FLOOR:
GROUND SNOW LOAD: PSF
WIND LOAD: BASIC WIND SPEED: MPH (ASCE-7) EXPOSURE CATEGORY: WIND BASE SHEARS (FOR MWFRS): V_w = V_e =
SEISMIC DESIGN CATEGORY: A B C D
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY (TABLE 1604.5): I II III IV
SPECTRAL RESPONSE ACCELERATION: S₁ % S₂ %
SITE CLASSIFICATION (TABLE 1613.5.2): A B C D E F
DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA
BASIC STRUCTURAL SYSTEM (CHECK ONE): BEARING WALL DUAL W/ SPECIAL MOMENT FRAME BUILDING FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL MOMENT FRAME INVERTED PENDULUM
SEISMIC BASE SHEAR: V_w = V_e =
ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO
LATERAL DESIGN CONTROL: EARTHQUAKE WIND
SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT): PSF
PRESUMPTIVE BEARING CAPACITY: PSF
PILE SIZE, TYPE, AND CAPACITY:
SPECIAL INSPECTIONS REQUIRED: YES NO

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
PLUMBING FIXTURE REQUIREMENTS ARE NOT AFFECTED BY THIS PROJECT. NO NET CHANGE IN FIXTURE COUNT.
USE WATER CLOSETS URINALS LAVATORIES SHOWERS/TUBS DRINKING FOUNTAINS
MALE FEMALE MALE FEMALE REGULAR ACCESSIBLE
5 13 7 5 5 0 3

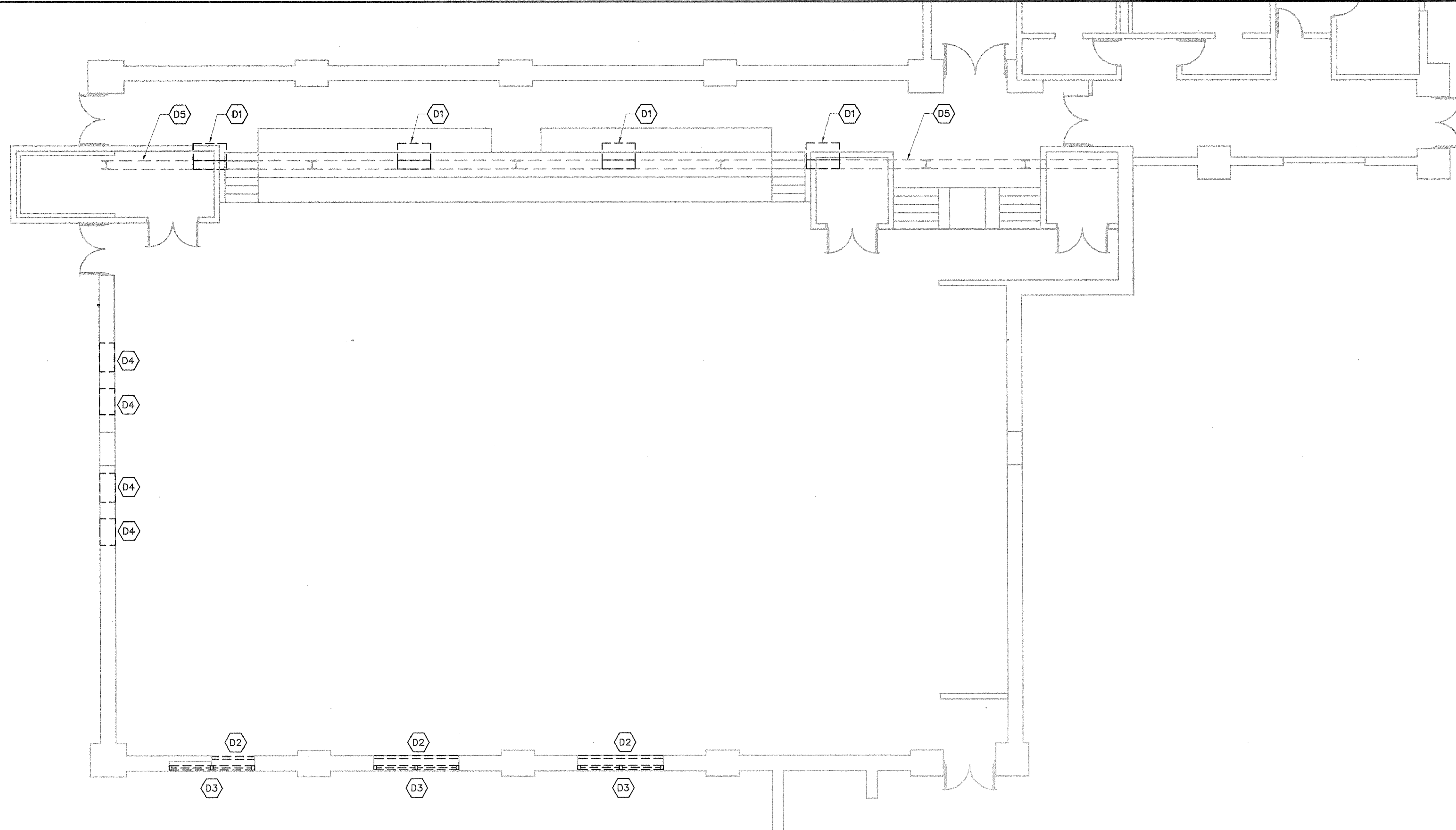
SPECIAL APPROVALS
(LOCAL JURISDICTION, DOI, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)

ENERGY SUMMARY
THE BUILDING ENVELOPE IS NOT AFFECTED BY THIS PROJECT.
ENERGY REQUIREMENTS:
CLIMATE ZONE: 3 4 5
METHOD OF COMPLIANCE:
ENERGY CODE: PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE
THERMAL ENVELOPE:
ROOF/CEILING ASSEMBLY (EACH ASSEMBLY):
DESCRIPTION OF ASSEMBLY: METAL DECK WITH 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

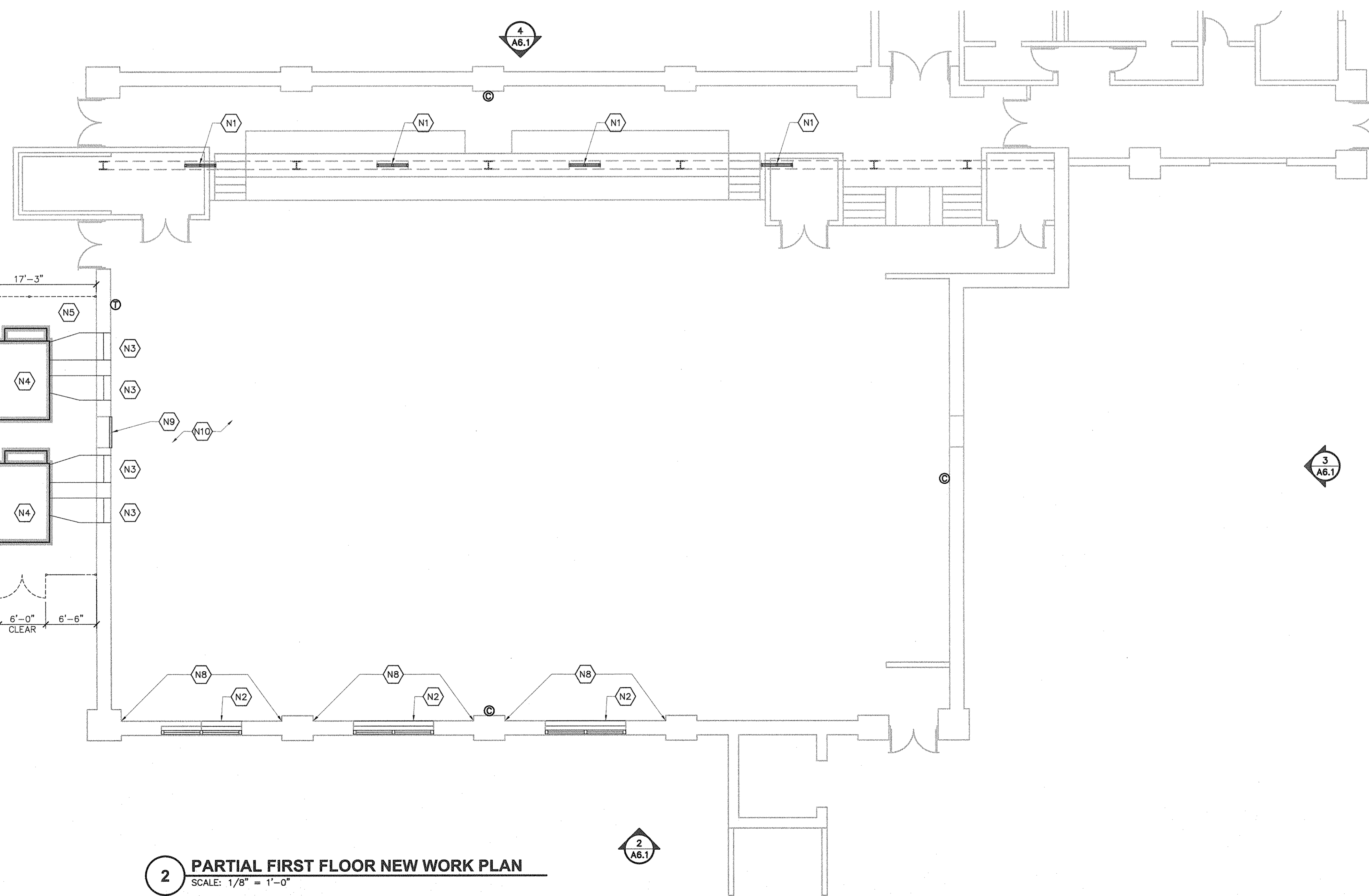
MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT:
METHOD OF COMPLIANCE:
ENERGY CODE: PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE
THERMAL ZONE:
WINTER DRY BULB: 14.8°F
SUMMER DRY BULB: 93.1°F
INTERIOR DESIGN CONDITIONS:
WINTER DRY BULB: 70°F
SUMMER DRY BULB: 75°F
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 BTU/H
BOILER:
SIZE CATEGORY: IF OVERSIZED, STATE REASON: N/A
CHILLER:
SIZE CATEGORY: IF OVERSIZED, STATE REASON: N/A
LIST EQUIPMENT EFFICIENCIES: SEE MECHANICAL DRAWINGS

ELECTRICAL SUMMARY
NO BACKBONE ELECTRICAL EQUIPMENT IS EFFECTED BY THIS PROJECT. ELECTRICAL DESIGN INCLUDES POWER, LIGHTING, AND COMMUNICATION CONSTRUCTION TO ACCOMMODATE NEW ROOM CONFIGURATION.
ELECTRICAL SYSTEM AND EQUIPMENT:
METHOD OF COMPLIANCE:
ENERGY CODE: PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: 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
506.2.2 REDUCED LIGHTING POWER DENSITY
506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

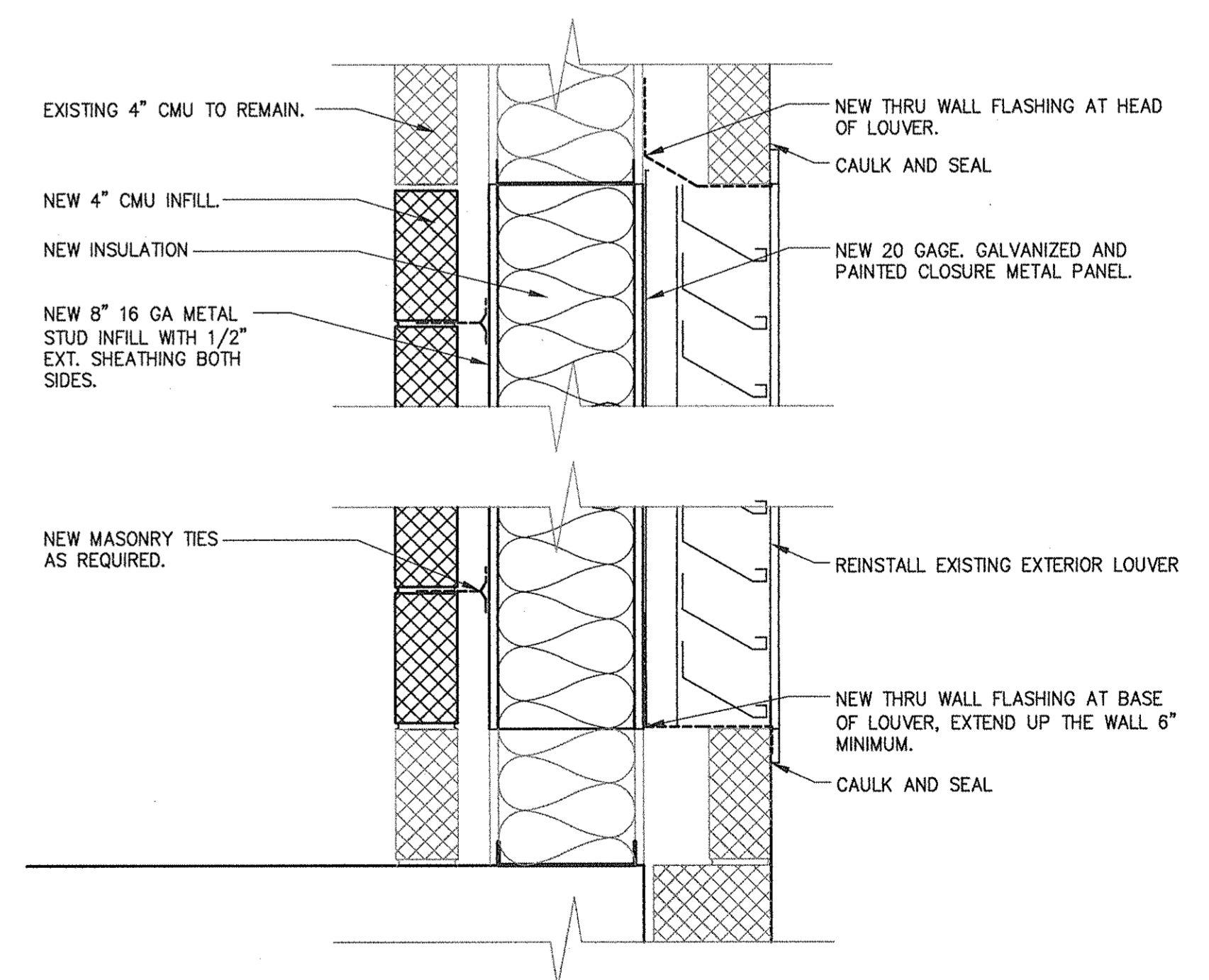
THE EAST GROUP
Engineering Architecture
Surveying Technology
Corporate Office
324 Evans Street
Greenville, NC 27858
Tel 252.758.3746 Fax 252.830.3954
www.eastgroup.com
Branch Office
4325 Lake Boone Trail, Suite 311 -
Raleigh, NC 27607
Tel 919.784.9330 Fax 919.784.9331
NC Engineering License No. C-0206
NC Architectural License No. 50213
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THE EAST GROUP, P.A.
REGISTERED ARCHITECT
NORTH CAROLINA
50213
PROCOPIO SERRANO
REGISTERED ARCHITECT
NORTH CAROLINA
13124
12/7/16
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BY
REV
PS
DATE
DESCRIPTION
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TEG PROJECT NO.: 20160143
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PROJECT TITLE:
CITY OF GREENVILLE
H. BOYD LEE PARK
HVAC MODIFICATIONS
DRAWING TITLE:
NORTH CAROLINA
BUILDING CODE
SUMMARY
DRAWING NO.: G1.2



1 PARTIAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 PARTIAL FIRST FLOOR NEW WORK PLAN
SCALE: 1/8" = 1'-0"



3 TYPICAL LOUVER INFILL DETAIL
SCALE: 1-1/2" = 1'-0"

Typical Demolition Notes

- REMOVE ALL SECTIONS OF WALLS IN THEIR ENTIRETY AS INDICATED BY DASHED LINES, UNLESS NOTED OTHERWISE.
- REMOVE ALL LOUVERS AND FRAMES, AND HARDWARE AS INDICATED BY DASHED LINES, UNLESS NOTED OTHERWISE.
- SEE P/M/E DRAWINGS FOR DEMO RELATED TO ELECTRICAL AND MECHANICAL SYSTEMS. GC TO COORDINATE ALL DEMOLITION OF ALL DISCIPLINES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR THE GYM FLOOR AND WILL BE RESPONSIBLE FOR ANY DAMAGES.

Keyed Demolition Notes

- (D1) REMOVE EXISTING LOUVERS, AND SUBFRAME PREPARE FOR NEW WINDOW INSTALLATION.
- (D2) REMOVE EXISTING INTERIOR LOUVERS. PREPARE FOR INFILL.
- (D3) REMOVE EXISTING EXTERIOR LOUVERS TO FACILITATE INFILL WORK. CLEAN EXTERIOR LOUVERS AND PREPARE FOR REINSTALLATION.
- (D4) REMOVE SECTIONS OF EXISTING WALL FOR PREPARATION FOR NEW DUCT WORK PENETRATIONS.
- (D5) HIGH WALL ABOVE TO REMAIN.

General Notes

- REFER TO SHEET G1.1 FOR ADDITIONAL DEMOLITION NOTES.
- REPAIR DAMAGE AND HOLES LEFT AFTER REMOVAL OF COMPONENTS AND DEMOLITION ACTIVITY. MATCH EXISTING ADJACENT FINISH OR PREPARE FOR NEW FINISH.
- DEMOLITION ACTIVITIES THAT CAUSE NOISE OR VIBRATION DETRIMENTAL TO OWNER ACTIVITY SHALL BE CONDUCTED AT TIMES COORDINATED WITH THE OWNER.
- SEE P,M,&E DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS.
- THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SYSTEM COMPONENTS REMOVED DURING DEMOLITION. SYSTEM COMPONENTS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
- PAINT NEW DUCTWORK TO MATCH EXISTING.

Keyed Notes

- (N1) INSTALL NEW EXTERIOR STOREFRONT WINDOWS WITH INSULATED GLASS TO MATCH EXISTING.
- (N2) INFILL EXISTING OPENING WITH CMU, ALIGN WITH ADJACENT SURFACES. REINSTALL EXTERIOR LOUVER AFTER ALL WATERPROOFING AND INFILL WORK HAS BEEN COMPLETED. SEE DETAIL 3/A1.1.
- (N3) PROVIDE NEW HEAVY GAUGE METAL STUD BOX FRAMING AROUND NEW DUCT WORK OPENINGS. PROVIDE THRU WALL FLASHING AND CAULK AND SEAL INTERIOR AND EXTERIOR AROUND NEW OPENINGS.
- (N4) NEW REINFORCED CONCRETE SLAB, SEE MECHANICAL.
- (N5) NEW 4" LAYER OF ABC STONE INSIDE THE MECHANICAL MAINTENANCE AREA.
- (N6) NEW PRE-FINISHED (BLACK) GALVANIZED WIRE FENCE SYSTEM WITH METAL POSTS. SEE DETAIL 6/A6.1. MAINTAIN 4'-0" CLEARANCE AROUND MECHANICAL EQUIPMENT.
- (N7) PROVIDE ACCESS GATES FOR 6'-0" CLEAR OPENING. GATES TO BE LOCKABLE.
- (N8) NEW EPOXY PAINT BETWEEN COLUMNS. COLOR TO MATCH EXISTING.
- (N9) PAINT SHEET METAL BLANK-OFF PANEL ON BACK OF LOUVER TO MATCH EXISTING.
- (N10) BASKETBALL BACKBOARD FRAMING TO BE ADJUSTED TO ACCOMMODATE NEW DUCTS. EXISTING FRAMING TO BE UNCLIPPED AND MOVED AS REQUIRED. TEMPORARILY SUPPORT FRAMING AS NEEDED.

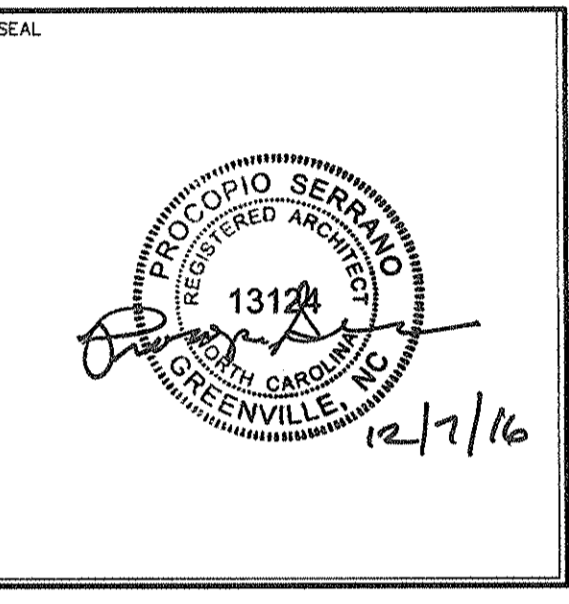
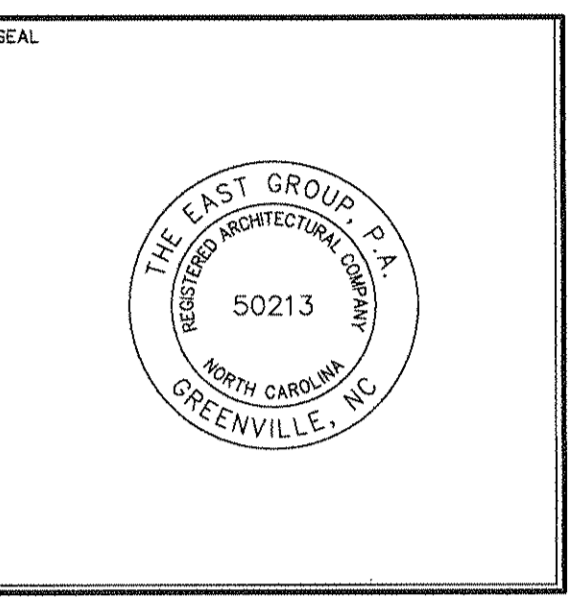
THE EAST GROUP
Engineering Architecture
Surveying Technology

Corporate Office
324 Evans Street
Greenville, NC 27658
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

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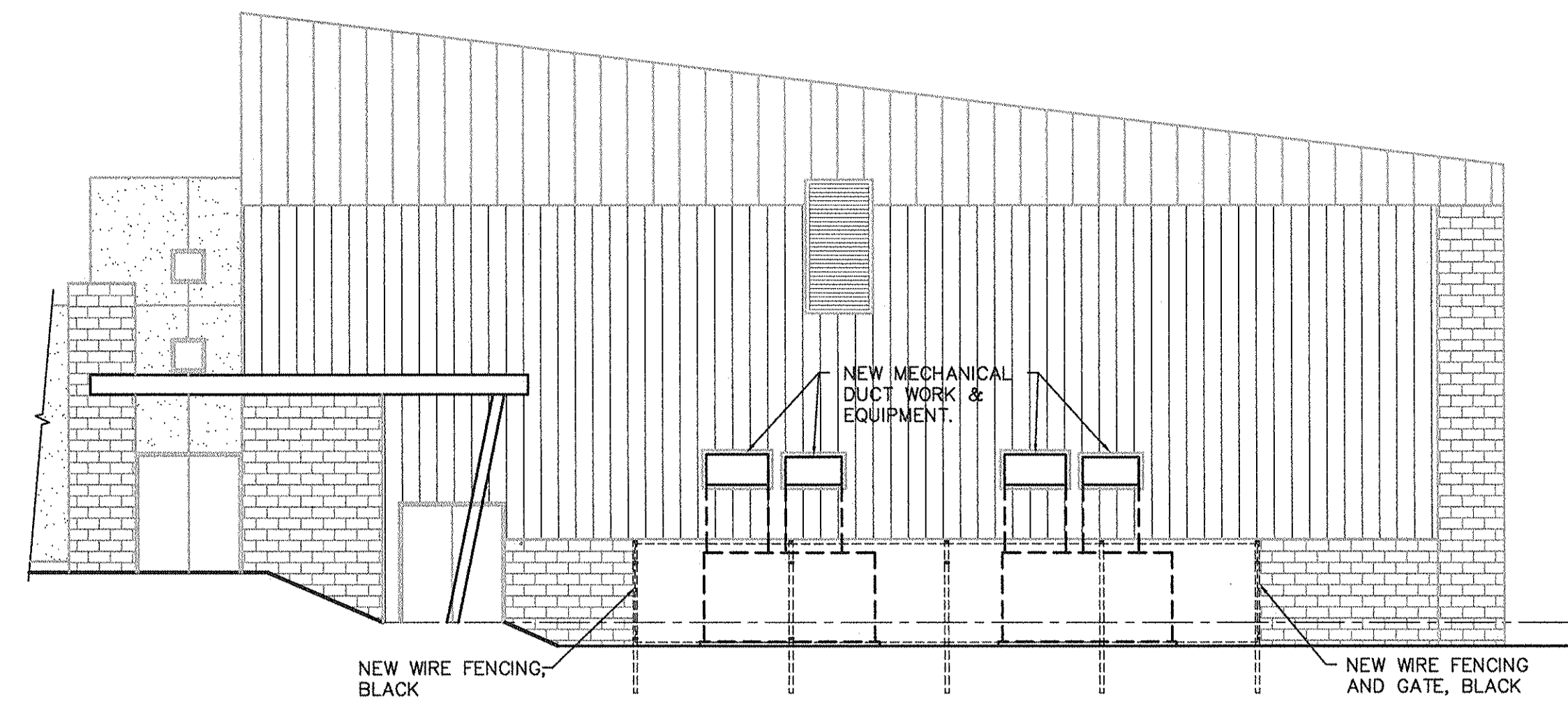
REV.	DATE	DESCRIPTION	CHK	BY
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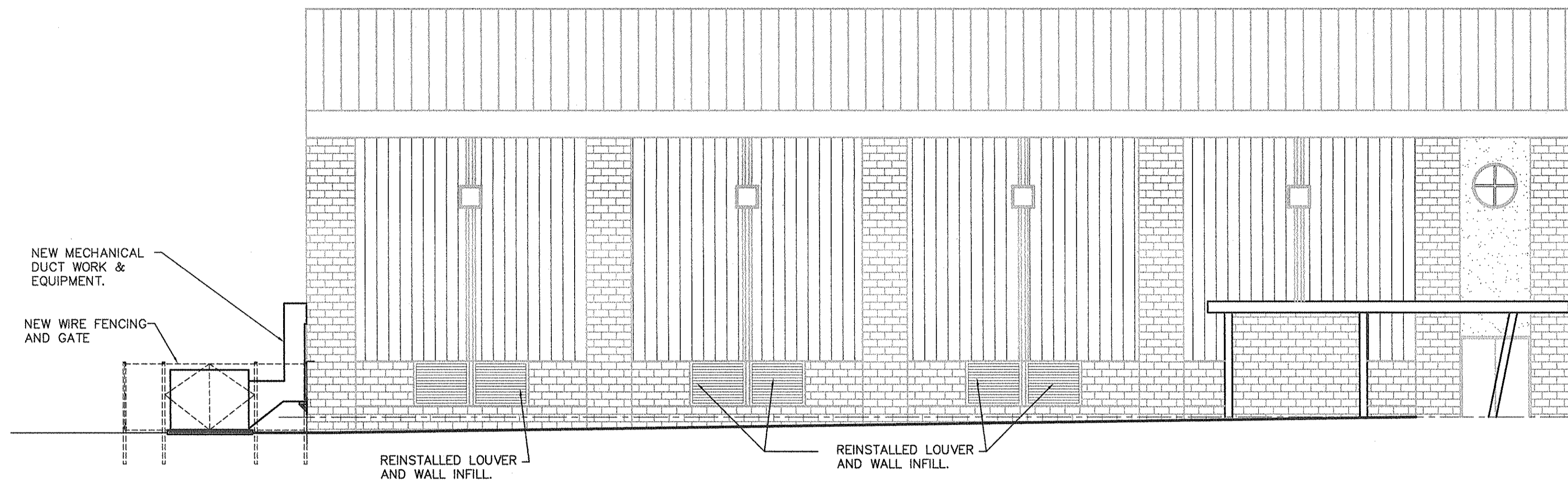
PARTIAL FIRST FLOOR DEMOLITION & NEW WORK PLANS

A1.1

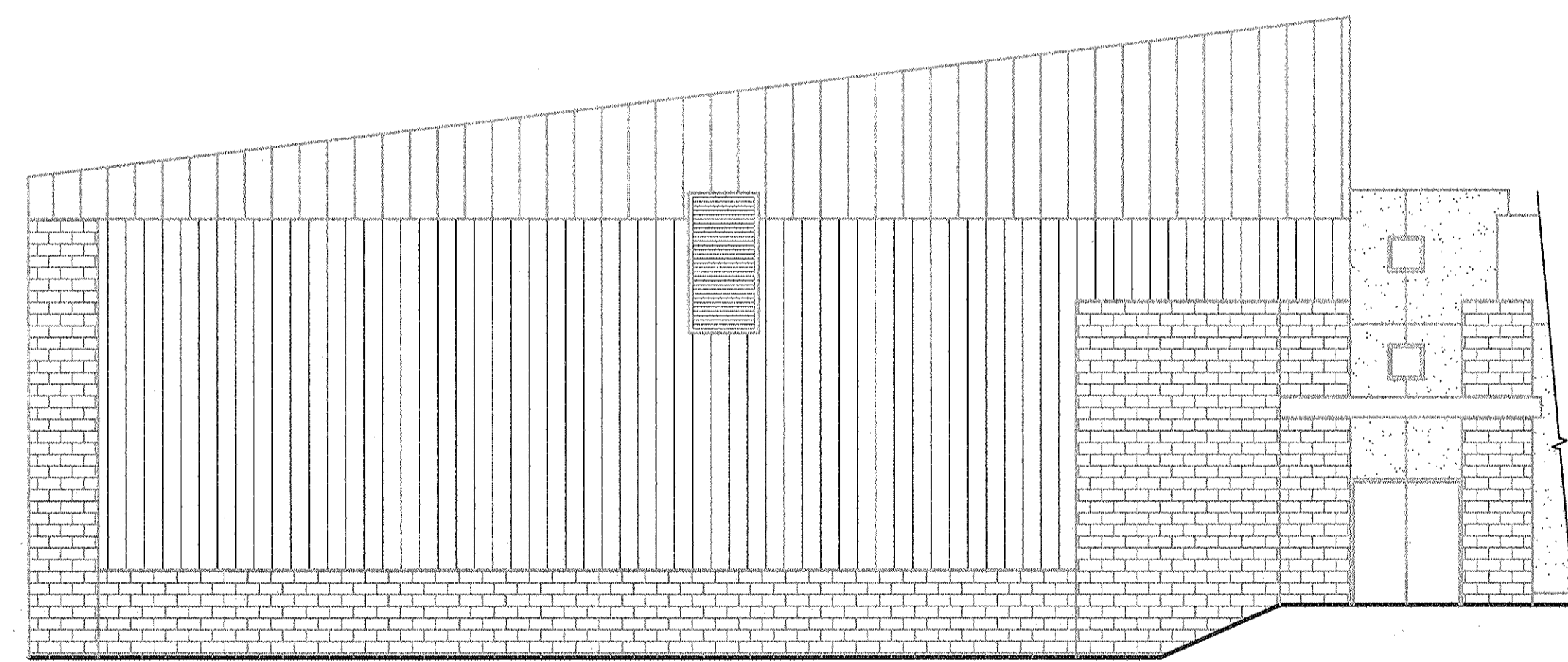
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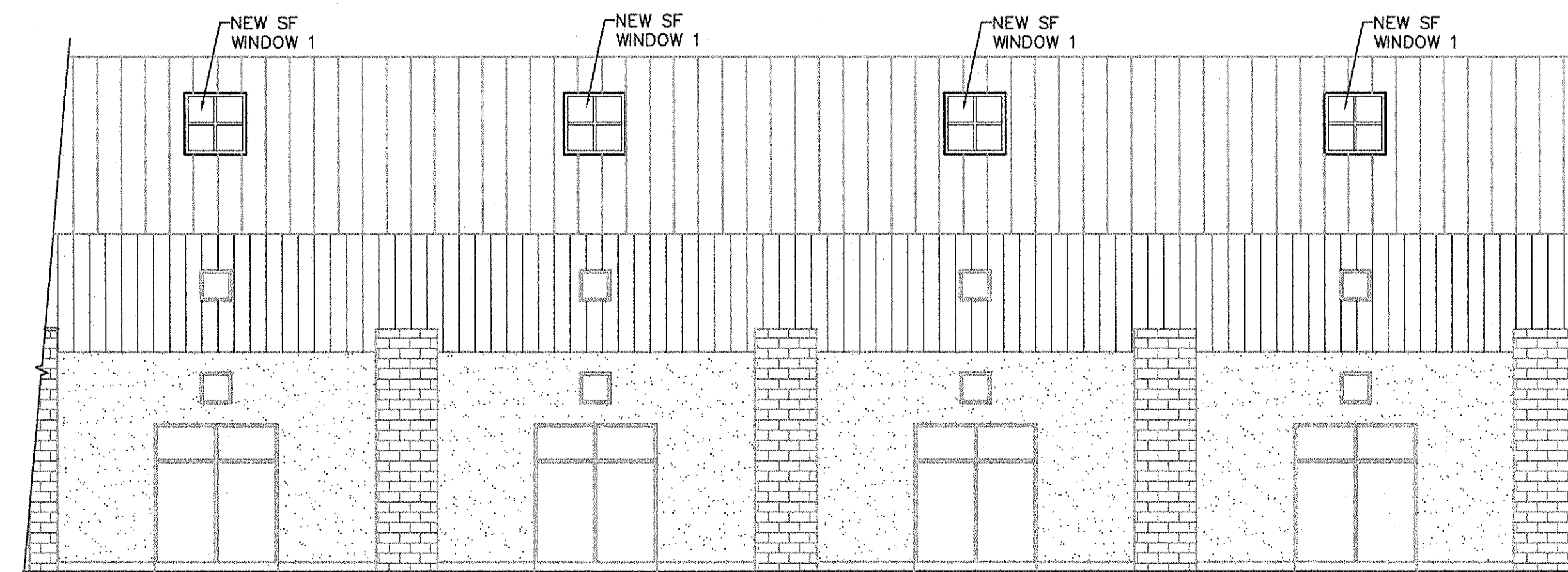
1 ELEVATION
SCALE: 1/8" = 1'-0"



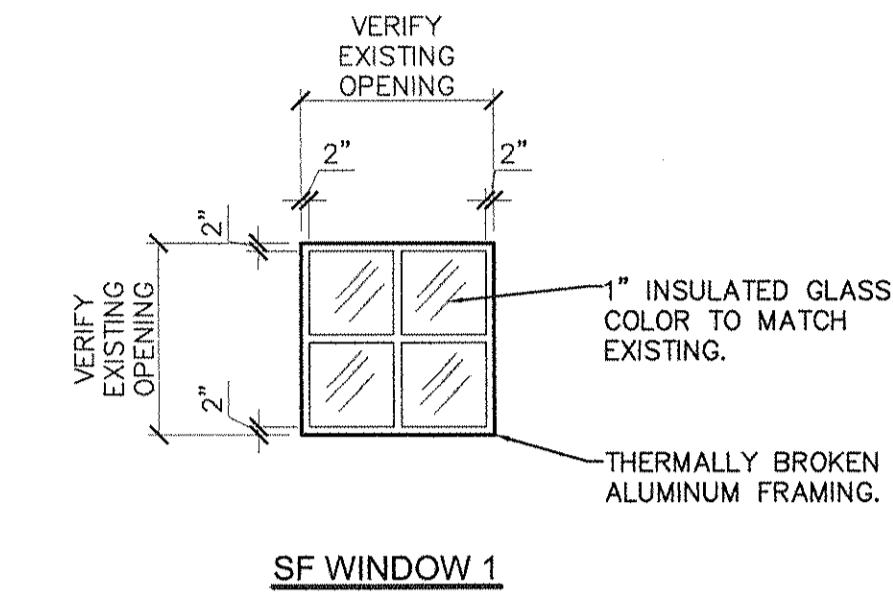
2 ELEVATION
SCALE: 1/8" = 1'-0"



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

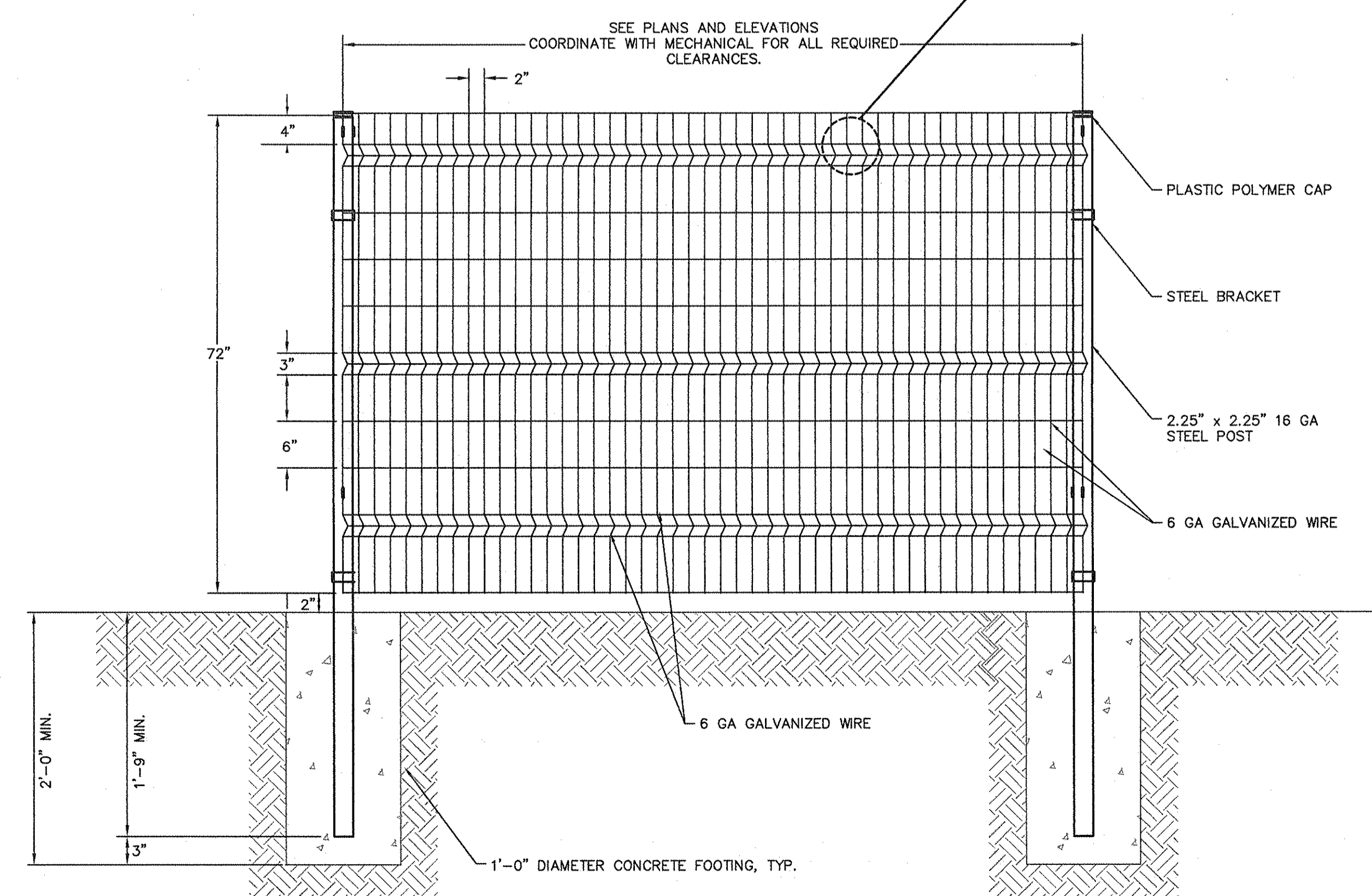
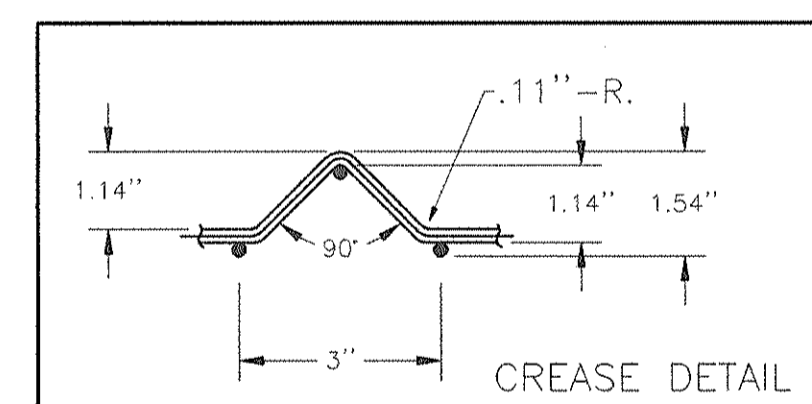


4 ELEVATION
SCALE: 1/8" = 1'-0"

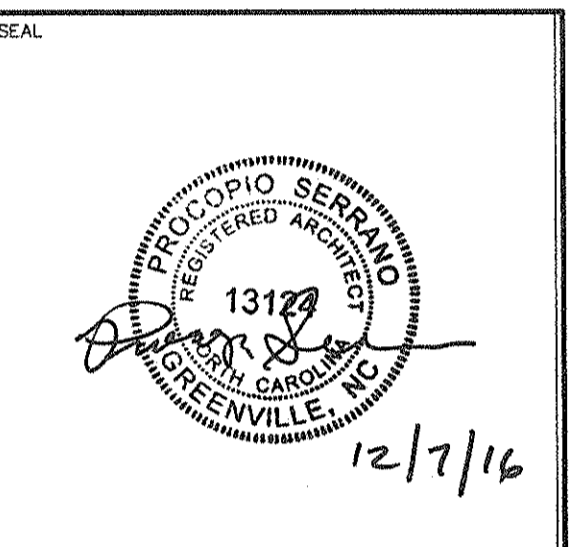
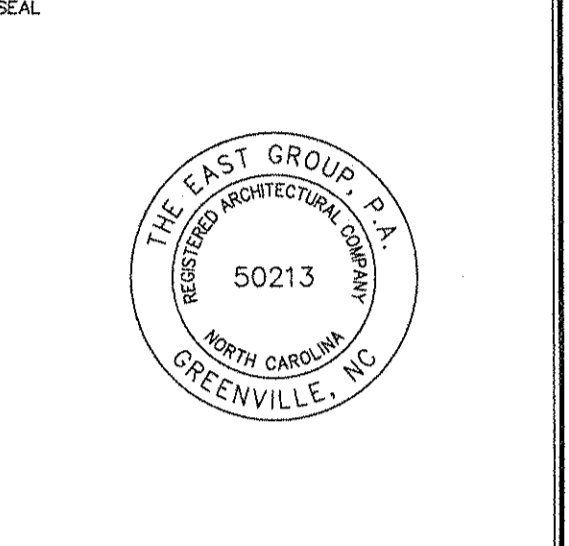


5 TYPICAL STOREFRONT WINDOW ELEVATION
SCALE: N.T.S.

- NOTES:
1. PROVIDE GATE AS SHOWN ON PLANS TO MATCH FENCE SYSTEM.
 2. PRE-FINISHED BLACK FINISH, TYPICAL.
 3. AMERISTARFENCE OR APPROVED EQUAL. SEE SPECIFICATIONS



6 FENCE DETAILS
SCALE: N.T.S.



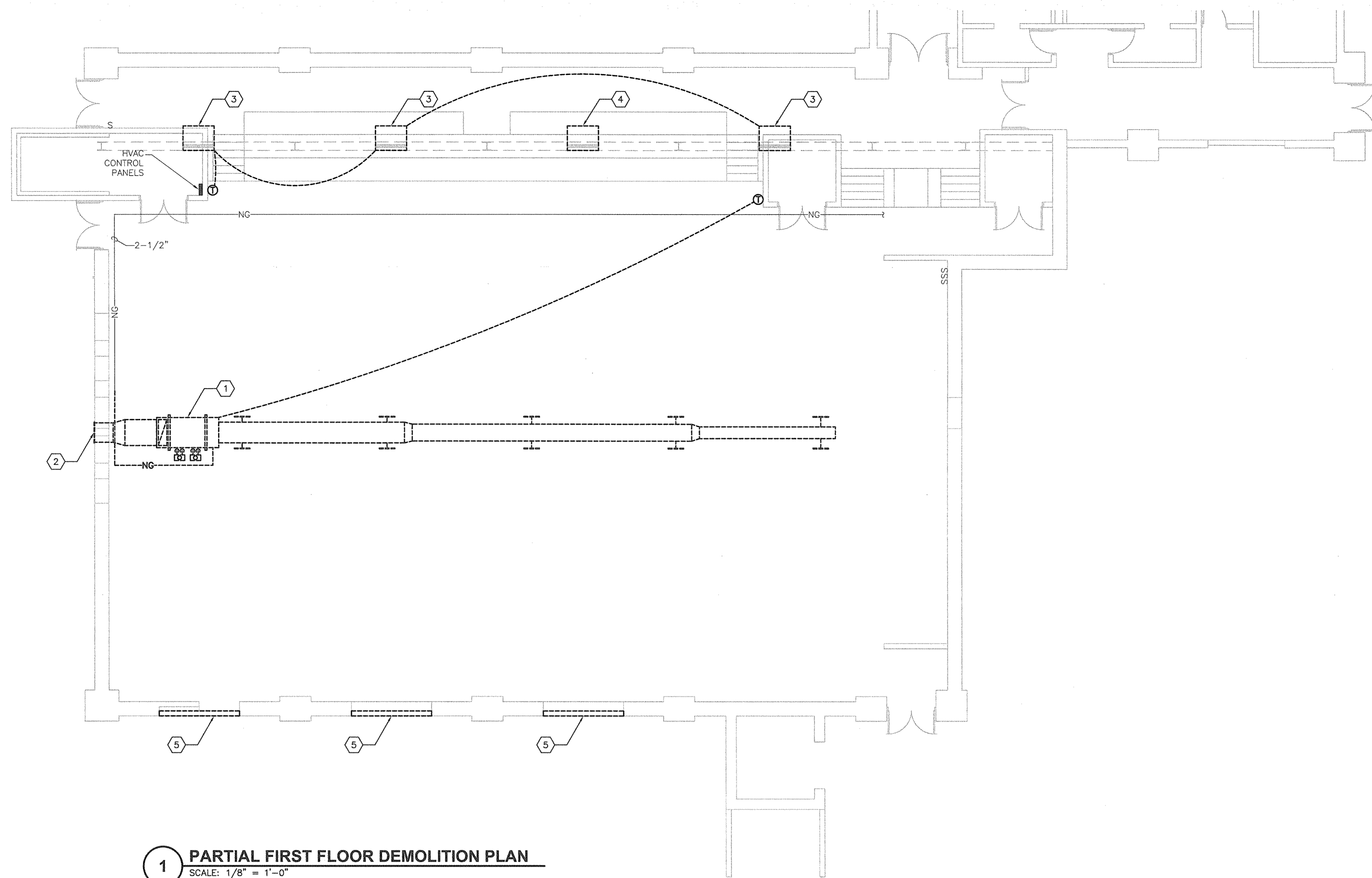
REV	DATE	DESCRIPTION
0	12/7/16	ISSUED FOR CONSTRUCTION

REG PROJECT NO. 20160143
 CLIENT PROJECT NO. WORK ORDER NO. 19
 PROJECT TITLE
**CITY OF GREENVILLE
 H. BOYD LEE PARK
 HVAC MODIFICATIONS**

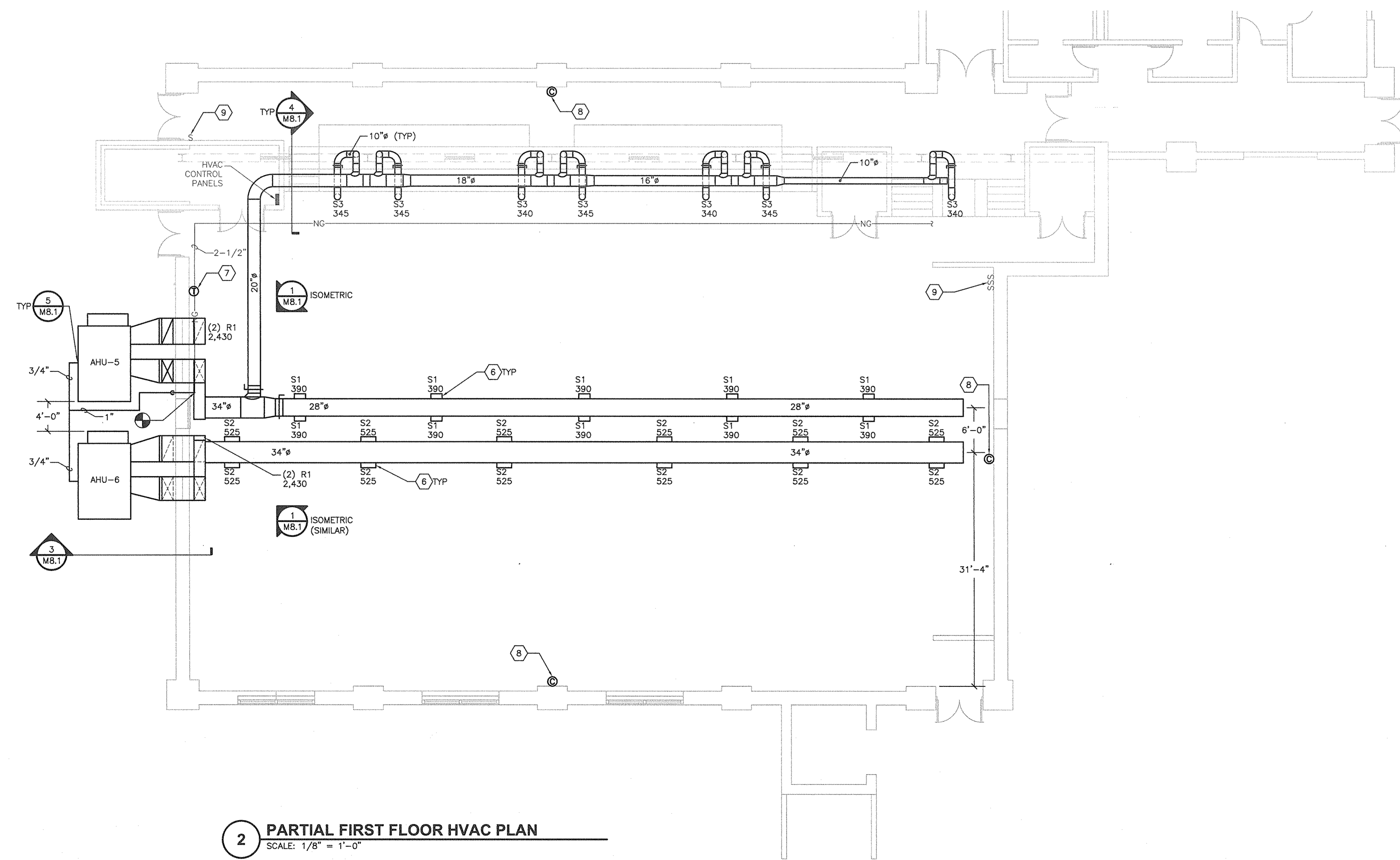
DRAWING TITLE
EXTERIOR ELEVATIONS

DRAWING NO.
A6.1

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1 PARTIAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 PARTIAL FIRST FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"

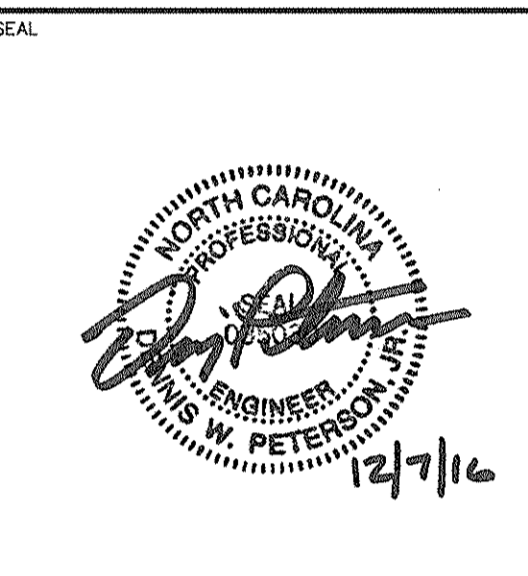
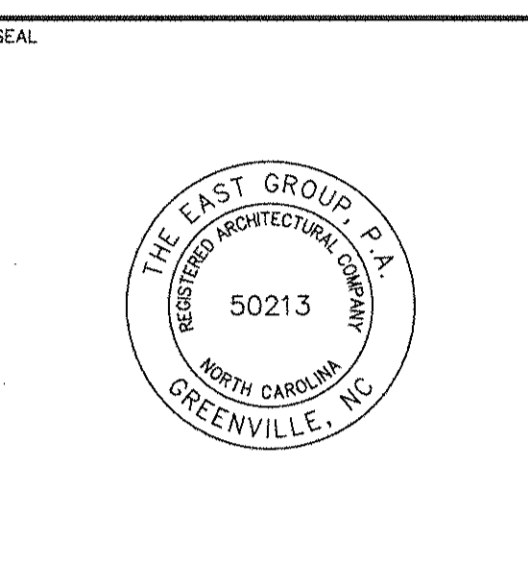
Keyed Notes

- 1 DEMOLISH EXISTING GAS-FIRED HEATING UNIT AND ALL ASSOCIATED DUCTWORK, FLUE VENTS, GAS PIPING, CONTROLS, HANGERS, ETC.
- 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.
- 3 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.
- 7 PROVIDE NEW WALL-MOUNTED TEMPERATURE SENSOR AT 48" AFF AND CONNECT TO EXISTING CENTRAL CONTROL SYSTEM. PROVIDE HEAVY DUTY WIRE CAGE FOR PROTECTION.
- 8 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.

REV	DATE	DESCRIPTION	BY	CHK	DVP
0	12/7/16	ISSUED FOR CONSTRUCTION			

TEL PROJECT NO. 20160143
 CLIENT PROJECT NO. WORK ORDER NO. 19
 PROJECT TITLE
**CITY OF GREENVILLE
 H. BOYD LEE PARK
 HVAC MODIFICATIONS**
 DRAWING TITLE
PARTIAL FIRST FLOOR DEMOLITION & HVAC PLANS
 DRAWING NO.
M1.1

THE EAST GROUP
 ■ Engineering ■ Architecture
 ■ Surveying ■ Technology
 • Corporate Office
 324 Evans Street
 Greenville, NC 27838
 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
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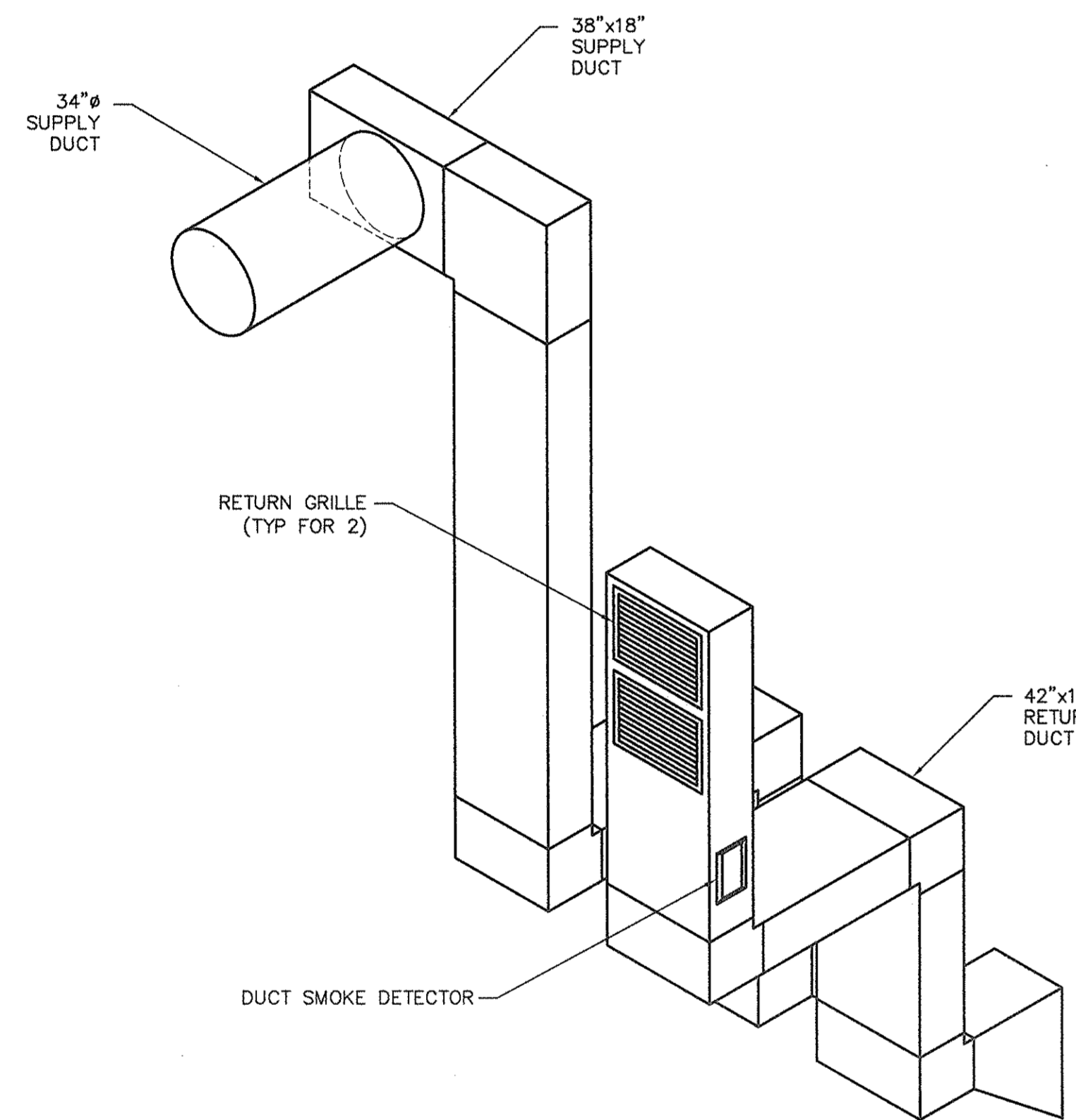
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SYMBOL	AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	FAN		COOLING				HEATING			AUXILIARY HEATING		MINIMUM EFFICIENCY				ELECTRICAL			MANUFACTURER & MODEL NO. *	REMARKS		
			ESP (IN WG)	MOTOR SIZE (HP)	OUTDOOR TEMPERATURE (°F DB)	EAT (°F DB / °F WB)	MINIMUM 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	COF @ 47°F	E ₁			E ₂	MINIMUM CIRCUIT AMPCITY (A)
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	--	--	80	--	45	50	460/60/3	TRANE YZH210	--

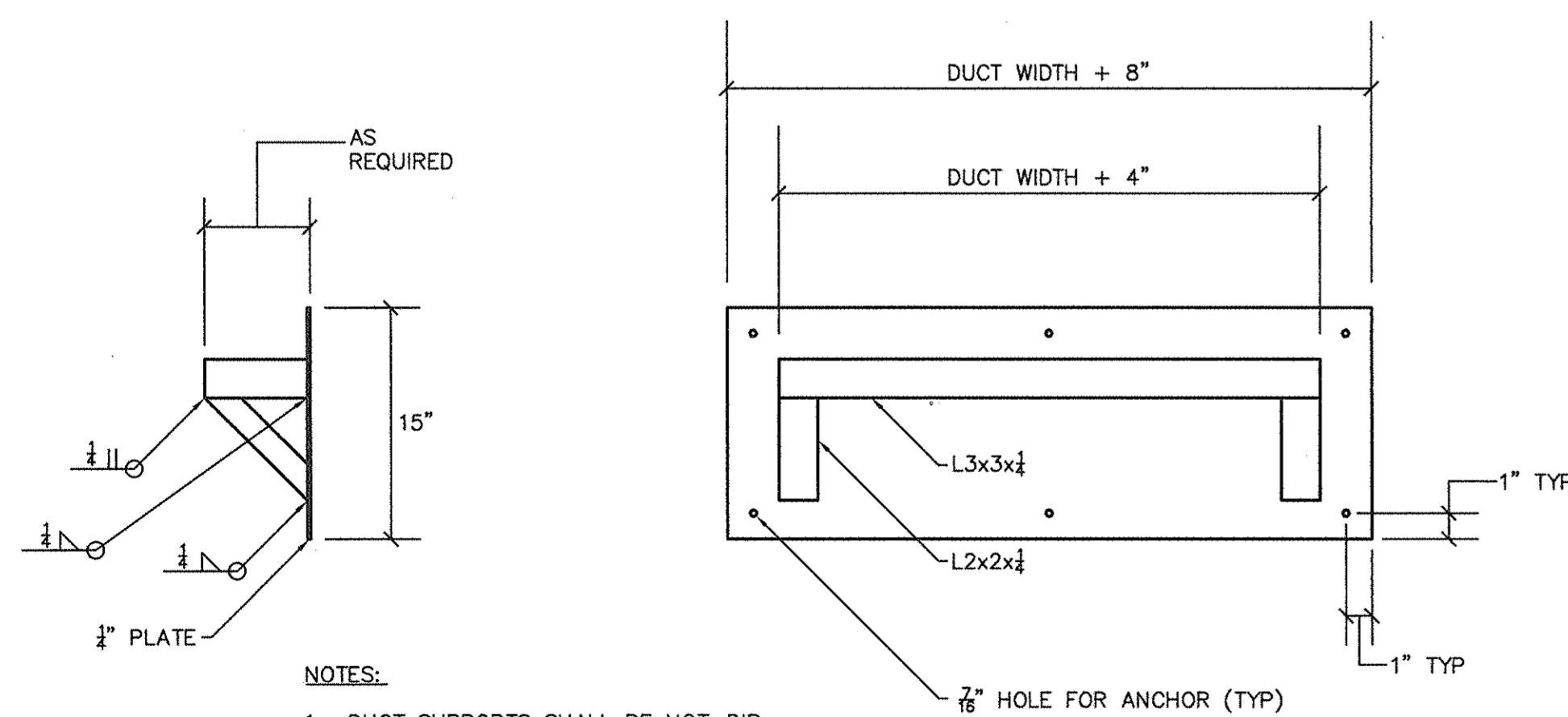
* SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

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

* SEE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.

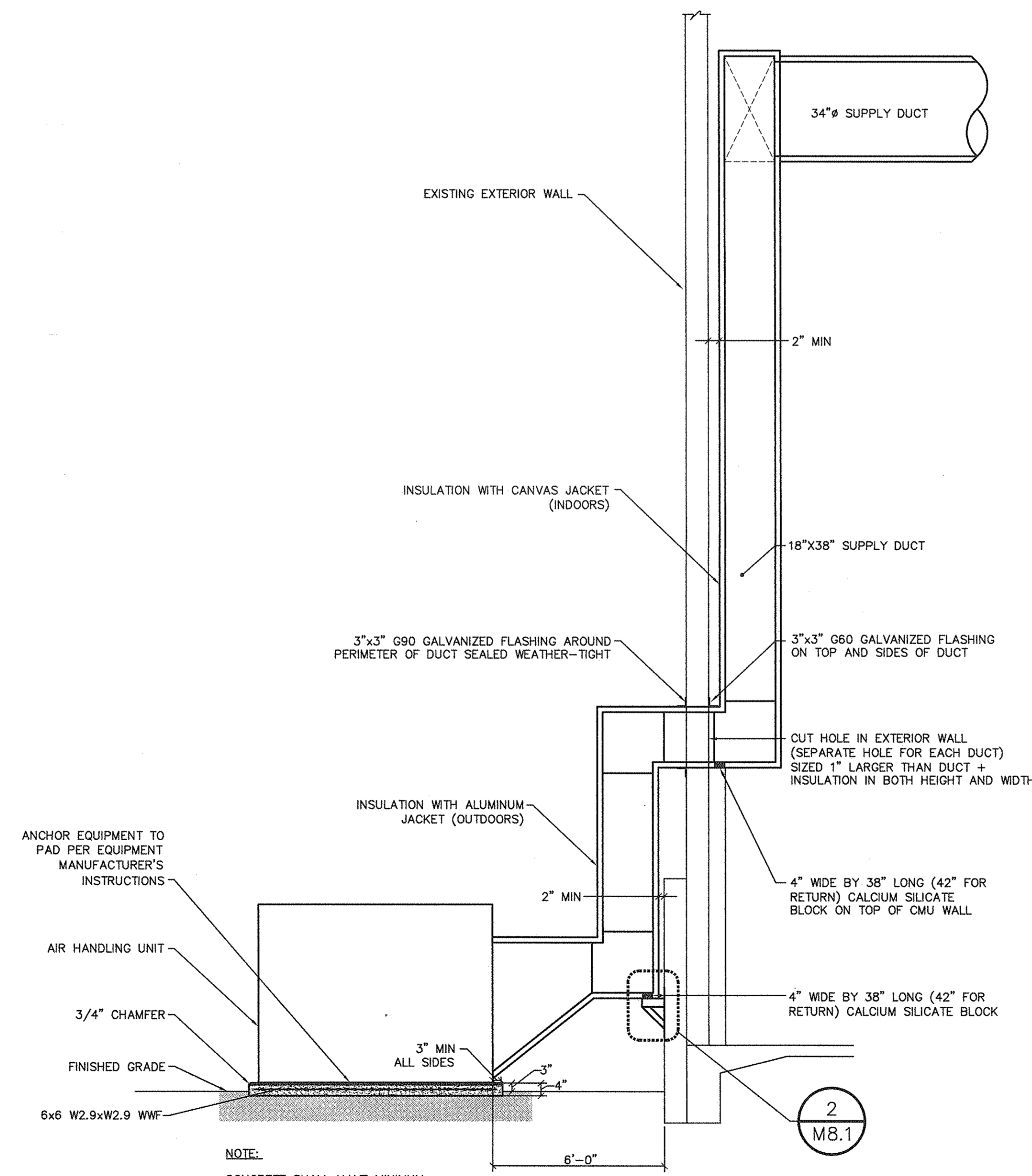


1 DUCT ISOMETRIC
NTS



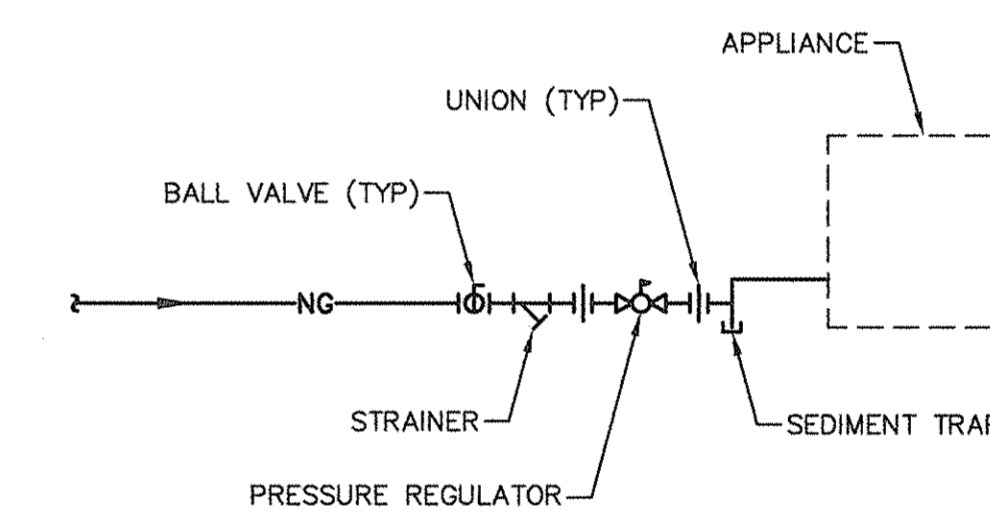
- NOTES:
- DUCT SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
 - DUCT SUPPORTS SHALL BE ATTACHED TO EXISTING CMU WALL USING 3/8" HILTI KWIK BOLT, 3 HDG EXPANSION ANCHORS WITH MINIMUM 3" EMBEDMENT.

2 DUCT SUPPORT
NTS



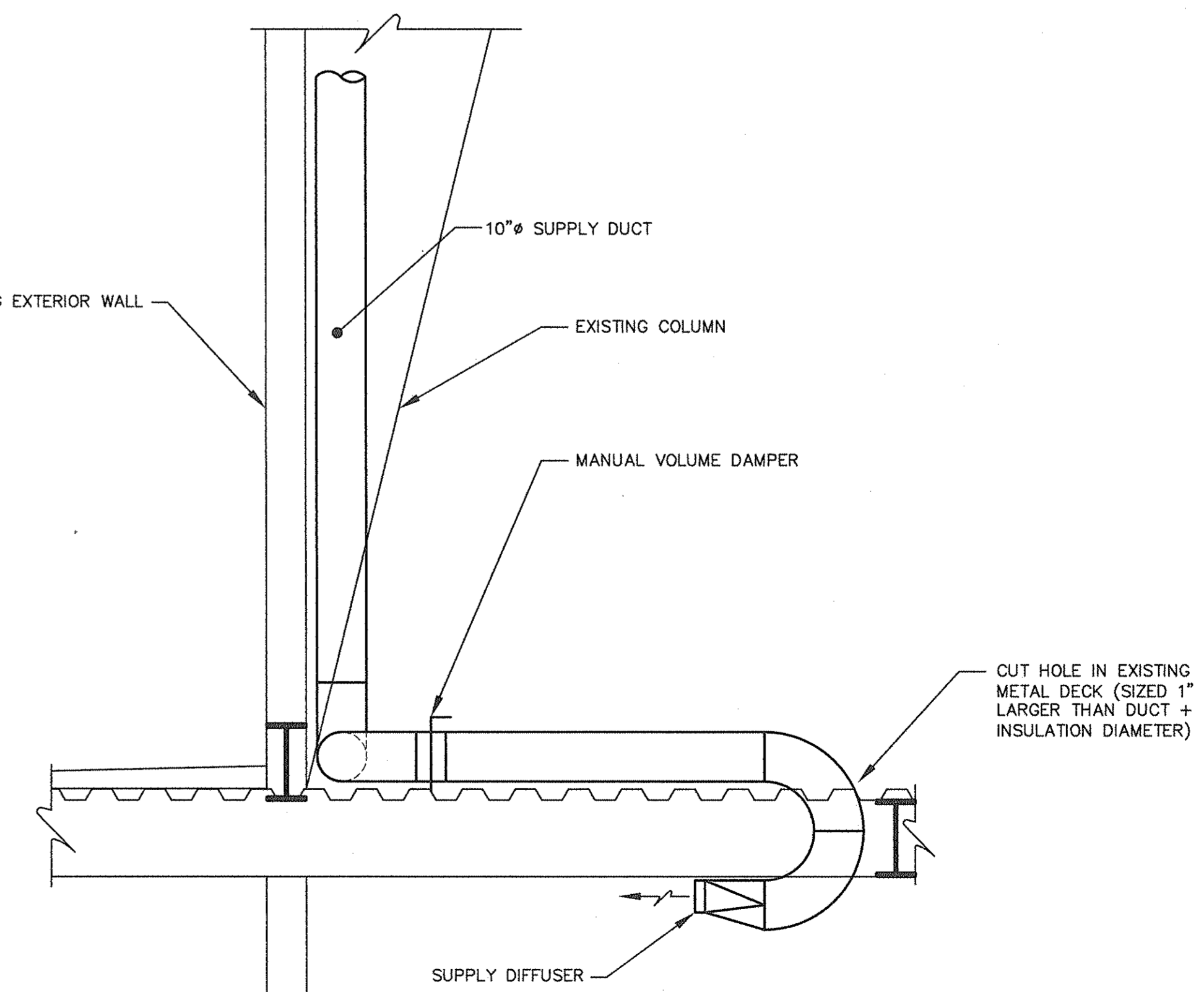
NOTE:
CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

3 DUCT SECTION
NTS



- NOTE:
- BALL VALVE SHALL BE LOCATED WITHIN 6'-0" OF THE APPLIANCE.

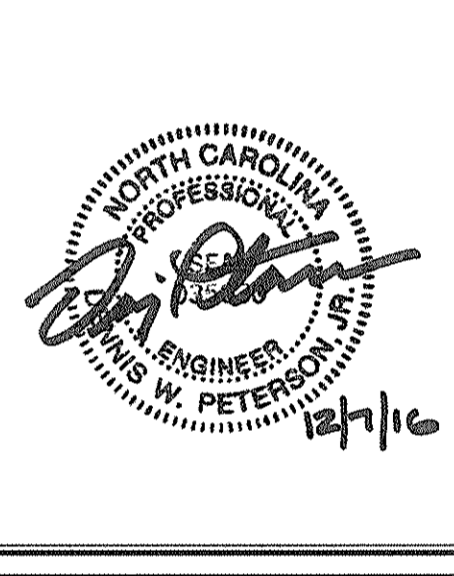
5 OUTDOOR GAS APPLIANCE CONNECTION
NTS



4 DUCT SECTION
NTS



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Corporate Office
324 Evans Street
Greenville, NC 27658
Tel 252.768.9746 Fax 252.630.3954
www.eastgroup.com
Branch Office
4325 Lake Boone Trail, Suite 311 -
Raleigh, NC 27607
Tel 919.784.9330 Fax 919.784.9331
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CHK	BY	DATE	DESCRIPTION
DVP			
DCM			
ISSUED FOR CONSTRUCTION		12/7/16	
REV	0		

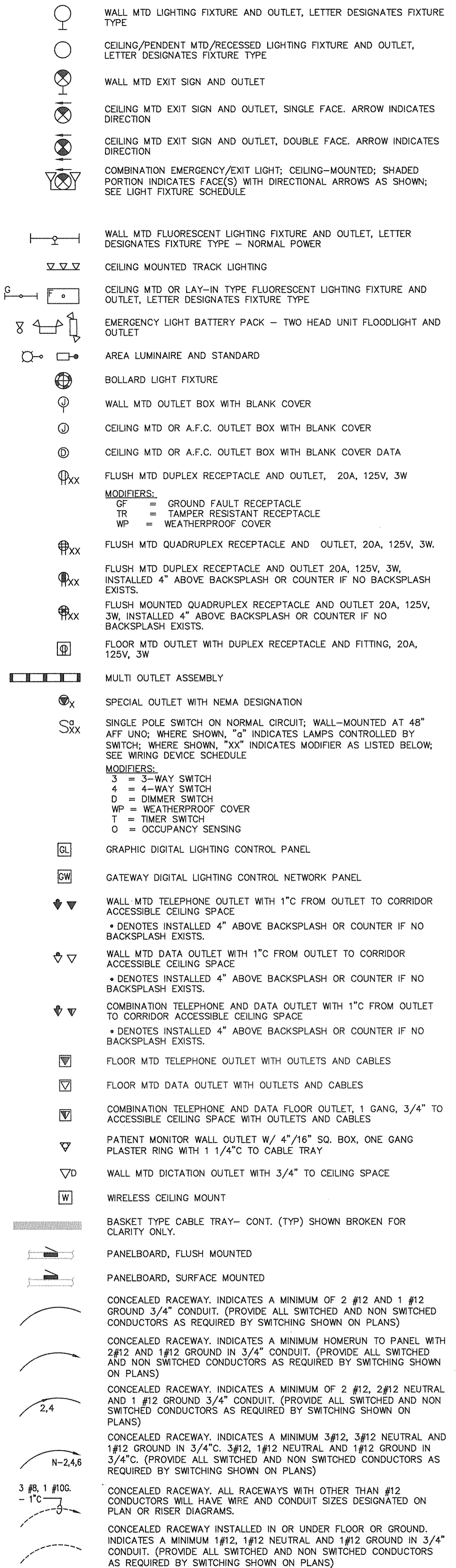
TEC PROJECT NO. 20160143
CLIENT PROJECT NO. WORK ORDER NO. 19
PROJECT TITLE
**CITY OF GREENVILLE
H. BOYD LEE PARK
HVAC MODIFICATIONS**

DRAWING TITLE
**SCHEDULES,
DETAILS &
SECTIONS**

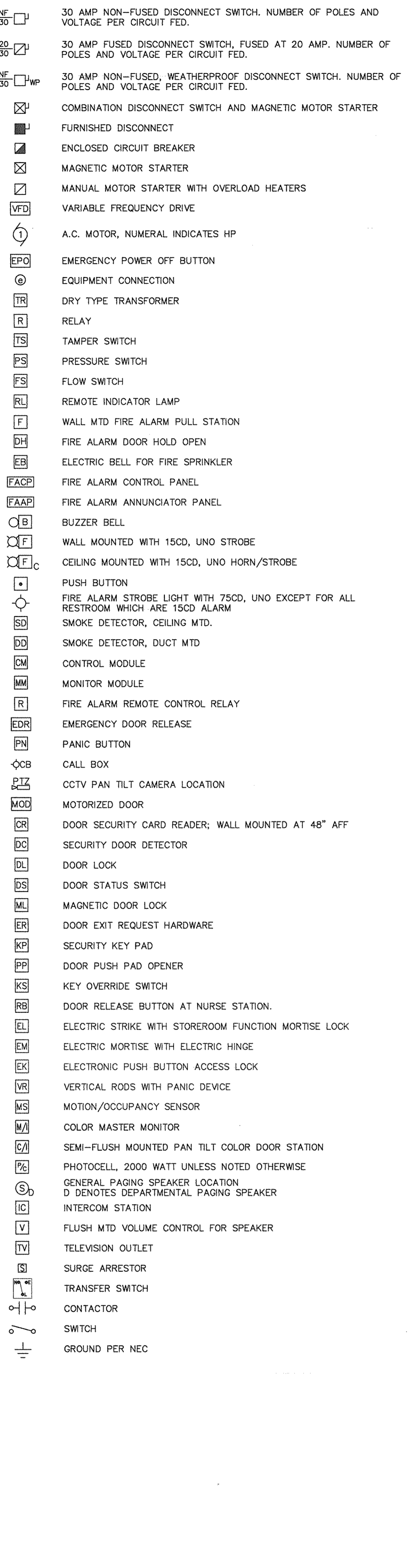
DRAWING NO.
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ELECTRICAL SYMBOLS



ELECTRICAL SYMBOLS



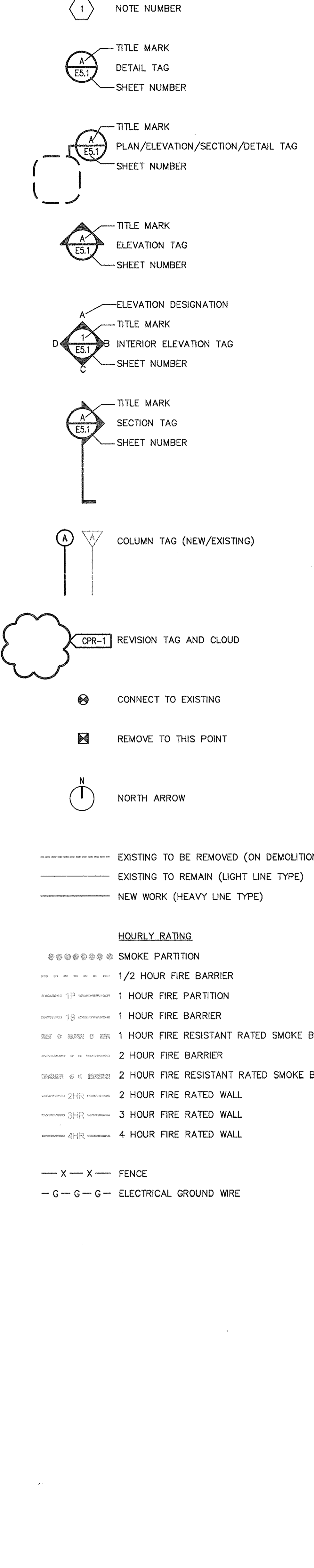
ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including terms like ROUND, DIAMETER OR PHASE, NUMBER OF CONDUCTORS, AMPERES, ALTERNATING CURRENT, etc.

GENERAL NOTES

- List of general notes for the project, including instructions on how to use symbols, coordinate with other trades, and specific requirements for demolition and new work.

GENERAL SYMBOLS



THE EAST GROUP logo and contact information for Greenville, NC, including office address and phone numbers.

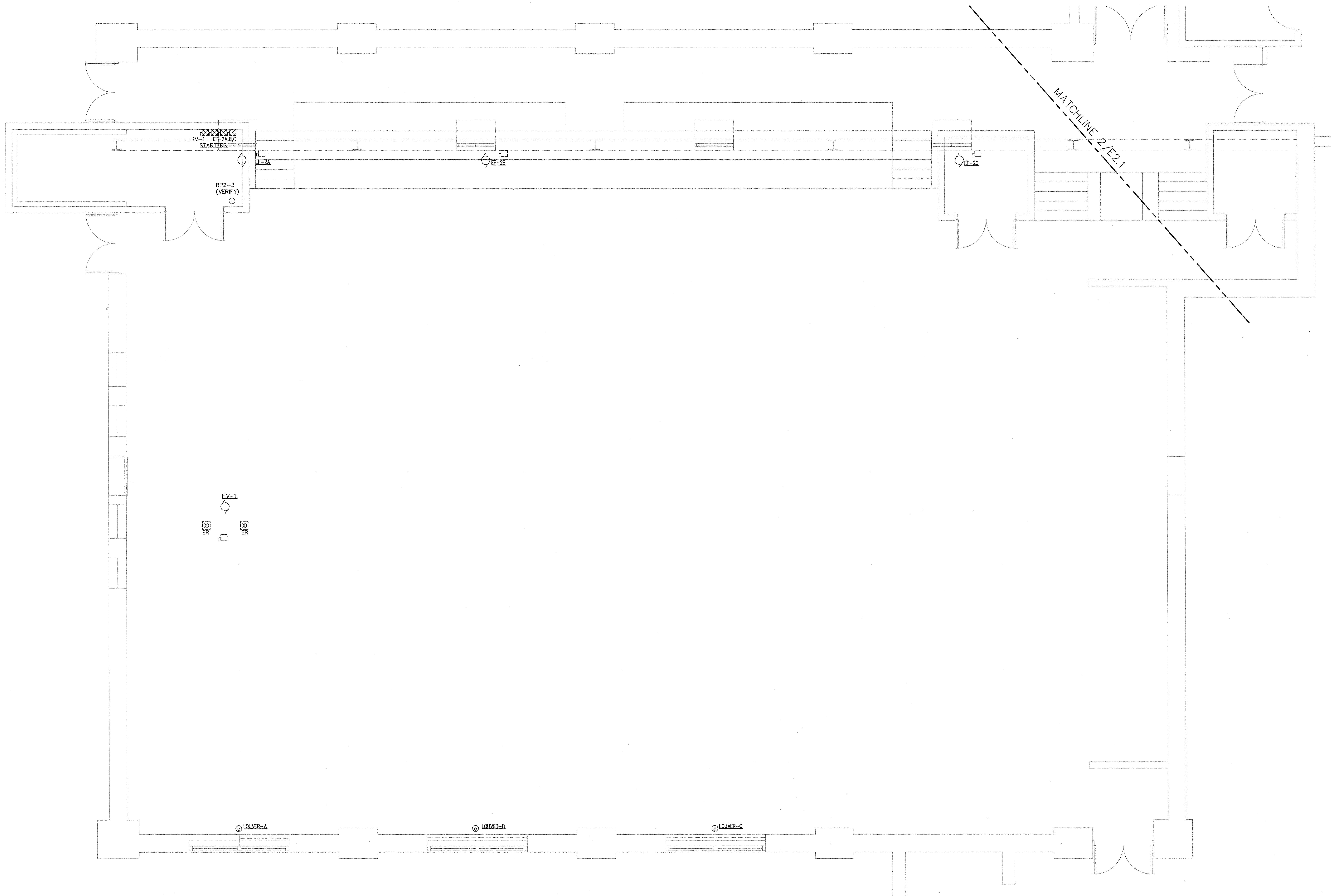
Professional engineer seals for The East Group P.A. and individuals like William E. Strickland, including their respective license numbers and expiration dates.

Revision table with columns for CHK, DES, CDB, and CONSTRUCTION. Includes a row for the current revision (REV 0) dated 12/7/16.

Project information form containing project number (20160143), client project number (WORK ORDER NO. 19), and project title (CITY OF GREENVILLE H.V. BOYD LEE PARK HVAC MODIFICATIONS).

Drawing title: ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

Drawing number: E0.1



1 PARTIAL FIRST FLOOR PLAN DEMOLITION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- COORDINATE INSTALLATION OF ELECTRICAL WORK IN CEILING WITH HVAC DUCTS, LIGHTS AND STRUCTURAL MEMBERS. PROVIDE ADDITIONAL OFFSETS/FITTINGS AS REQUIRED.
- PROVIDE NEW TYPED INDEXES IN EXISTING PANELBOARDS UPON COMPLETION AND VERIFICATION OF CIRCUITS.

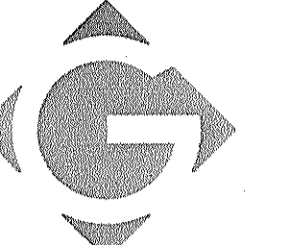


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Corporate Office
324 Evans Street
Greenville, NC 27838
Tel 252.758.3746 Fax 252.830.3954
www.eastgroup.com

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

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Greenville
NORTH CAROLINA



REV	DATE	DESCRIPTION	CHK	DES
0	12/7/16	ISSUED FOR CONSTRUCTION	CDB	

TEC PROJECT NO. 20160143

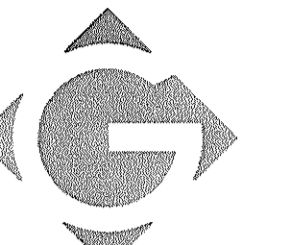
CLIENT PROJECT NO. WORK ORDER NO. 19

PROJECT TITLE
**CITY OF GREENVILLE
H. BOYD LEE PARK
HVAC MODIFICATIONS**

DRAWING TITLE
**FIRST FLOOR PLAN
DEMOLITION**

DRAWING NO.
E1.1

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REV	DATE	DESCRIPTION	BY	CHK
0	12/7/16	ISSUED FOR CONSTRUCTION	CDB	DES

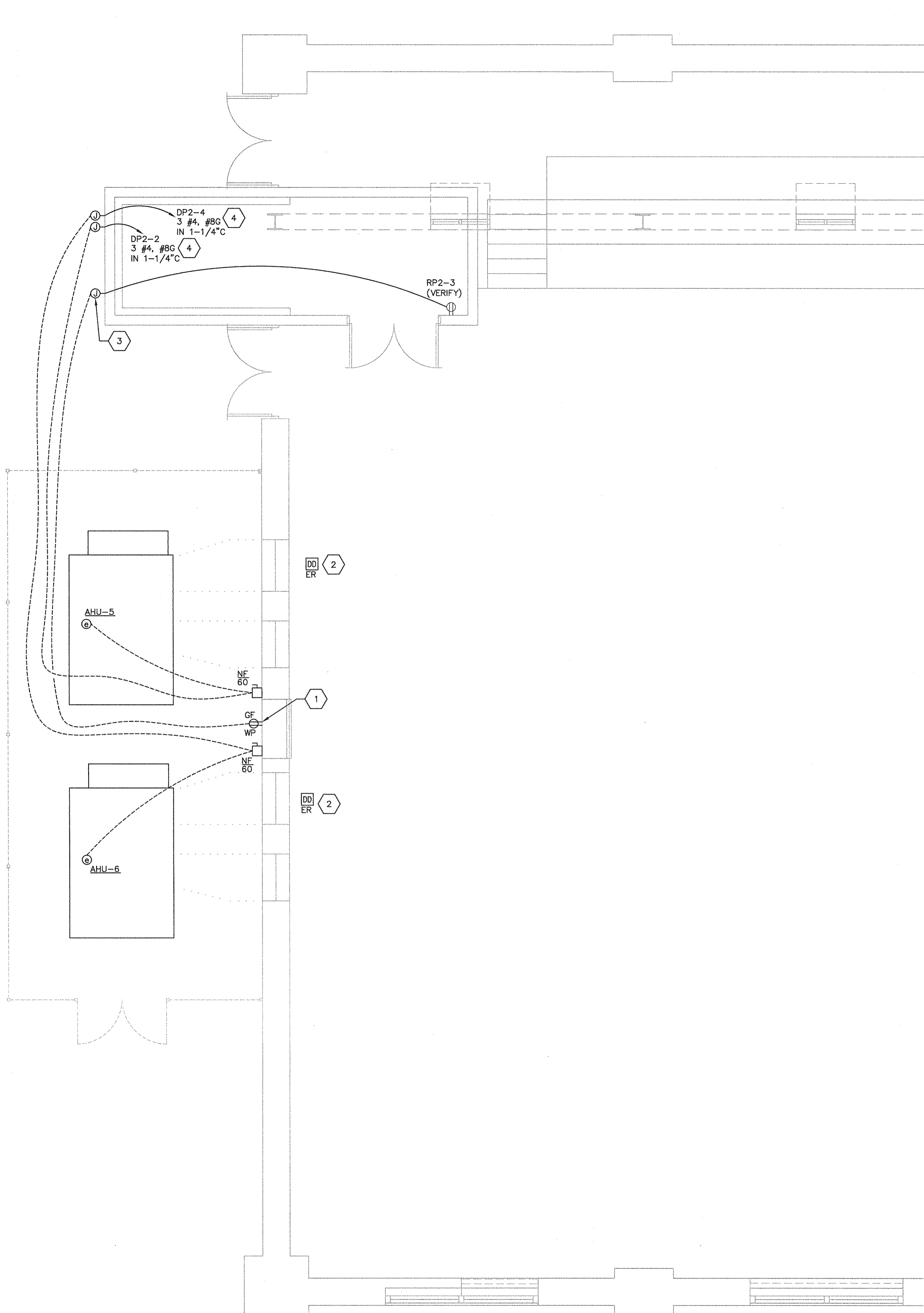
TEG PROJECT NO. 20160143

CLIENT PROJECT NO. WORK ORDER NO. 19

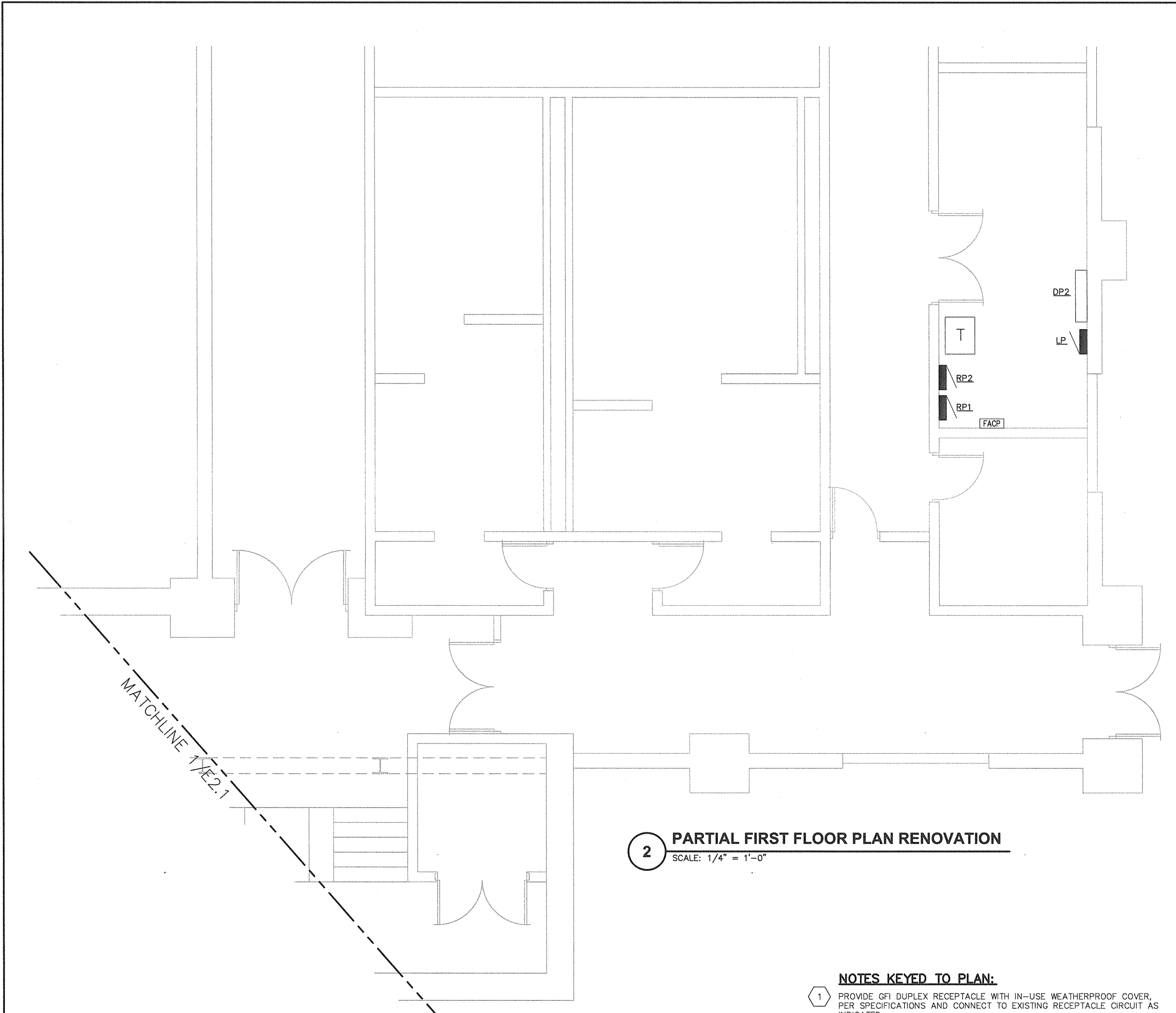
PROJECT TITLE
**CITY OF GREENVILLE
H. BOYD LEE PARK
HVAC MODIFICATIONS**

DRAWING TITLE
**PARTIAL FIRST FLOOR
PLAN RENOVATION**

DRAWING NO.
E2.1



1 PARTIAL FIRST FLOOR PLAN RENOVATION
SCALE: 1/4" = 1'-0"



2 PARTIAL FIRST FLOOR PLAN RENOVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- COORDINATE INSTALLATION OF ELECTRICAL WORK IN CEILING WITH HVAC DUCTS, LIGHTS AND STRUCTURAL MEMBERS. PROVIDE ADDITIONAL OFFSETS/FITTINGS AS REQUIRED.
- PROVIDE NEW TYPED INDEXES IN EXISTING PANELBOARDS UPON COMPLETION AND VERIFICATION OF CIRCUITS.

NOTES KEYED TO PLAN:

- PROVIDE GFI DUPLEX RECEPTACLE WITH IN-USE WEATHERPROOF COVER, PER SPECIFICATIONS AND CONNECT TO EXISTING RECEPTACLE CIRCUIT AS INDICATED.
- RELOCATE DUCT SMOKE DETECTOR ON AIR DUCT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE FOR WHEN ANY AIR DUCT SMOKE DETECTOR OR ANY BUILDING SPRINKLER FLOW SWITCH INITIATES ALARM, AHU UNITS SHALL SHUT DOWN. COORDINATE COMMUNICATIONS OF FIRE ALARM AND BUILDING AUTOMATION.
- PROVIDE WEATHERPROOF CONDUIT OUTLET BODY ELBOW AT 12" AFG ON EXTERIOR OF BUILDING TO ROUTE RECEPTACLE CIRCUIT.
- PROVIDE WEATHERPROOF CONDUIT OUTLET BODY ELBOW AT 12" AFG ON EXTERIOR OF BUILDING TO ROUTE AHU CIRCUIT.

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POWER PANELBOARD DP2		VOLTAGE: <input type="checkbox"/> 208/120V, 3 PHASE, 4 WIRE <input checked="" type="checkbox"/> 480/277V, 3 PHASE, 4 WIRE		<input type="checkbox"/> 240V, 3 PHASE, 4 WIRE <input type="checkbox"/> V, 3 PHASE, WIRE					
MOUNTING: <input checked="" type="checkbox"/> WALL <input type="checkbox"/> FLOOR		<input type="checkbox"/> MAIN LUGS ONLY <input checked="" type="checkbox"/> MAIN BREAKER		MAIN BUS: 600A TRIP: 600A					
		NEUTRAL BUS: 600A FRAME: N/A		<input type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM					
		ENCLOSURE NEMA: 1		SYM. AIC: 35,000 A					
CKT NO.	DESCRIPTION	LOAD				CIRCUIT BREAKER			REMARKS
		AMPS	KVA	KW	HP	POLES	TRIP	FRAME	
1	UNK	--	--	--	--	3	20	--	
3	AC-4 -- ARCADE	--	--	--	--	3	25	--	
5	TVSS	--	--	--	--	3	30	--	
7	SPARE	--	--	--	--	3	35	--	
9	AC-1 -- ADMINISTRATION AREA	--	--	--	--	3	60	--	
11	SERVICE DISCONNECT	--	--	--	--	3	600	--	
2	AHU #5	--	--	--	--	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

PANELBOARD LOCATION: _____ MANUFACTURER: _____
MODEL/CAT. NO.: _____
FEED: SEE ELECTRICAL ONE LINE DIAGRAM

(EXISTING PANELBOARD SHOWN FOR REFERENCE ONLY, CIRCUITS HAVE NOT BEEN FIELD VERIFIED)
+ 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

BUILDING LOAD SUMMARY	
A. DEMAND LOAD NEW	
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 (SHP INDOOR MOTOR)	6,319
	x 25%
SUB-TOTAL	1,580
TOTAL NEW LOAD (VA)	76,584
B. DEMAND LOAD - EXISTING TO BE DEMOLISHED	
ELECTRICAL EQUIPMENT	DEMAND LOAD (VA)
RECEPTACLE	0
LIGHTING	0
SUB-TOTAL	0
MECHANICAL EQUIPMENT	DEMAND LOAD (VA)
EF-2A,B,C	2,744
HV-1	11,639
SUB-TOTAL	14,383
TOTAL DEMAND LOAD - EXISTING (VA)	14,383
C. NET BUILDING LOAD - NEW MINUS EXISTING (VA)	62,201

THE EAST GROUP
Engineering Architecture
Surveying Technology

Corporate Office
324 Evans Street
Greenville, NC 27658
Tel 252.788.3146 Fax 252.630.3954
www.eastgroup.com

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

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REV	DATE	DESCRIPTION	CHK	
			BY	DES
0	12/7/16	ISSUED FOR CONSTRUCTION	CDB	

TRD PROJECT NO. 20160143
CLIENT PROJECT NO. WORK ORDER NO. 19
PROJECT TITLE
**CITY OF GREENVILLE
H. BOYD LEE PARK
HVAC MODIFICATIONS**

DRAWING TITLE
SCHEDULES

DRAWING NO.
E4.1

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