HVAC AND LIGHTING REPLACEMENT
AT

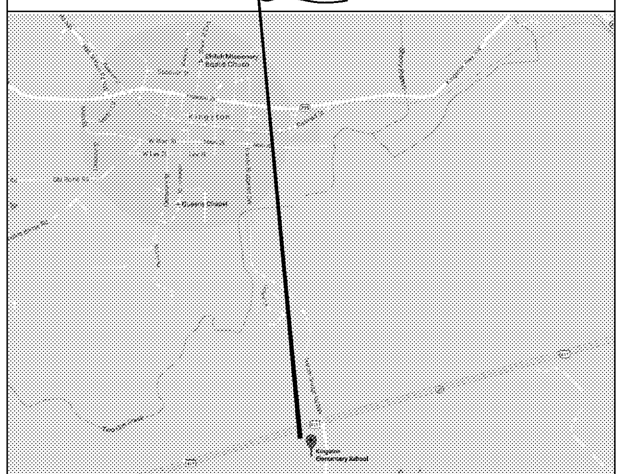
KINGSTON ELEMENTARY SCHOOL

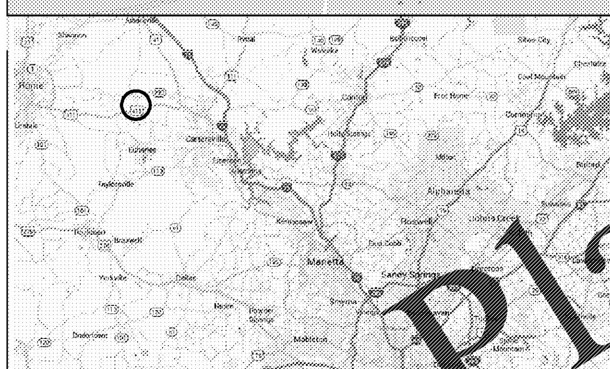
240 HARDIN BRIDGE ROAD
KINGSTON, GEORGIA

for the

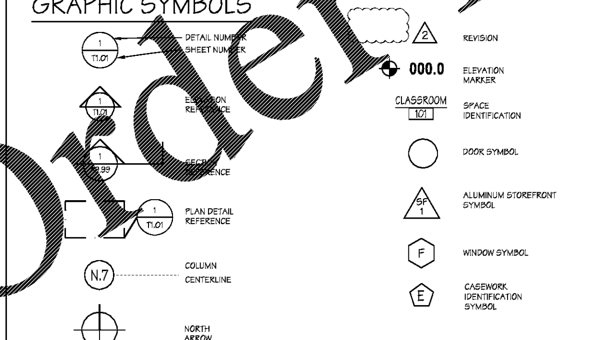
Bartow County School System
Cartersville, Georgia

LOCATION MAPS





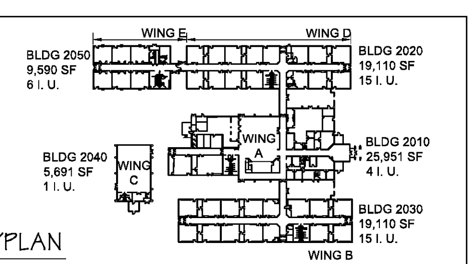
GRAPHIC SYMBOLS



ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
ACM	ASBESTOS CONTAINING MATERIALS
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
AL	ALUMINUM
ANC	ANCHOR, ANCHORAGE
ANOD	ANODIZED
APF	ACOUSTICAL PANEL FABRIC
APPROX	APPROXIMATE(LY)
AUTO	AUTOMATIC
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BK	BRICK
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BOT	BOTTOM
BRG	BEARING
BS	BOTH SIDES
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN, CHALKBOARD
CES	CARPET EDGE STRIP
CF	CUBIC FEET
CG	CORNER GUARD
CH	COAT HOOK
CI	CAST IRON
CIP	CAST IN PLACE
CLG	CEILING
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR(ANCE)
CM	CENTIMETER(S)
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CN	CONDUIT
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONST	CONSTRUCTION
COORD	COORDINATE (ED) (ION) (ING)
CORR	CORRUGATED
CPT	CARPET(ED)
CR	COAT RACK
CT	CERAMIC TILE
CTR	CENTER
CUH	CEILING UNIT HEATER
CWT	CERAMIC WALL TILE (GLAZED)
CY	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSP[illegible]
DTL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EJM	EXPANSION JOINT [illegible]
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR, ELEVATION
EMER	EMER[illegible]
EPX	EPOXY [illegible]
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCAPE
ESD	EXISTING SOAP DISPENSER
ETC	ETCETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
EXTG	EXISTING
FA	FIRE ALARM
FAB	FABRICATED
FACP	FIRE ALARM CONTROL PANEL
FB	FIRE BLANKET
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER (BRACKET MOUNTED)
FEC	FIRE EXTINGUISHER IN CABINET
FEJC	FLOOR EXPANSION JOINT COVER
FFE	FINISH FLOOR ELEVATION
FG	FLOOR GROUT
FH	FIRE HORN
FIN	FINISH (ED)
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FOB	FACE OF BRICK
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED POLYMER (POLYESTER, PLASTIC)
FS	FEATURE STRIP (VINYL OR RUBBER)
FT	FOOT, FEET
FTG	FOOTING
FWSC	FLUSH WOOD SOLID CORE
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT (OR)
GFI	GROUND FAULT INTERRUPTING
GL	GLASS, GLAZING
G.S.	GLASS SIDE (INSTALL GLAZING ON THIS SIDE OF FRAME)
GWB	GYPSUM WALL BOARD
GWH	GAS WATER HEATER
H	HIGH
HB	HOSE BIBB
HC	HANDICAP (PED)
HCD	HOLLOW CORE DOOR
HD	HAND DRYER
HDW	HARDWARE
HGT	HEIGHT
HORIZ	HORIZONTAL
HR	HANDRAIL
HS	HAND SINK
HSS	HOLLOW STRUCTURAL SECTION
HTG	HEATING
HWD	HARDWOOD
HVAC	HEATING/ VENTILATING & AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH (ES)
INSUL	INSULATE (ED) (ION)
INT	INTERIOR
INV	INVERT(ED)
JST	JOIST
JT	JOINT
L	LENGTH, LONG
LAM	LAMINATE(D)
LAV	LAVATORY
LL	LIVE LOAD
LT	LIGHT
LTWT	LIGHTWEIGHT
LVR	LOUVER
M	METER(S)
MAS	MASONRY
MAT	MATERIAL(S)
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MARKER BOARD
MBT	MARBLE THRESHOLD
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MED	MEDIUM
MES	METAL EDGE STRIP
MFR	MANUFACTURE(R)
MG	MIRROR, (GLASS)
MH	MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	METAL THRESHOLD
MTD	MOUNT(ED) (ING)
MTL	METAL
MULL	MULLION
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OVR	OVERHEAD
PCT	PORCELAIN TILE
PEJ	PRE-MOULDED EXPANSION JOINT
PH	PAPER HOLDER
PIP	POURED IN PLACE
PKG	PACKAGE (ING)
PL	PLATE, PROPERTY LINE
PL	PLASTIC LAMINATE
PLAS	PLASTIC
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PNTD	PAINTED
POLY	POLYETHYLENE
PRE-FAB	PREFABRICATE(D)
PREP	PREPARE
PRV	PRESSURE REDUCING VALVE
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTB	QUARRY BASE (SANITARY)
QTY	QUANTITY
R	RISER
R,RAD	RADIUS
RAG	RETURN AIR GRILLE
RB	RESILIENT BASE
RBR	RUBBER
RD	ROOF DRAIN
REFER	REFERENCE
REF	REFRIGERATOR
REINF	REINFORCING
RESIL	RESILIENT
REM	RECESSED ENTRANCE MAT
REQD	REQUIRED
REV	REVISION(S), REVISED
RF	RUBBER FLOORING
RH	ROBE HOOK
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RRF	RECYCLED RUBBER FLOOR
RRD	RAISED RUBBER DISC
RSF	RUBBER SPORTS FLOOR
RTH	RIGHT HAND
R/W	RIGHT OF WAY
S	SOUTH
SB	SPLASH BLOCK
SC	SOLID CORE
S CAB	STORAGE CABINET
SCH	SCHEDULE
SCN	SCREEN
SD	STORM DRAIN
SEC	SECTION
SER, SERV	SERVICE
SF	SQUARE FO[illegible]
SHLF	SHELF
SHLV	SHELVES
SHT	SHEET
SIM	SIMILAR
SP D	SOAP DISPENSER
SPEC	SPECIFICATION(S)
SPM	SPEC[illegible] MULLION (REMOV[illegible])
SQ	SQUARE
SR	SHEET RUBBER
SS	STAINLESS STEEL
ST	STORAGE
STL	STEEL
STD	STANDARD
STO	STORAGE
STRM	STORM DRAIN
STRUC	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRY (ICAL)
SYS	SYSTEM
T	TREAD
TB	TACK BOARD
TC	TERRA COTTA
TCAB	TEACHER CABINET
TEL	TELEPHONE
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TS	TACK STRIP
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZZO
T/B	TOWEL BAR
T&G	TONGUE AND GROOVE
UC	UNDERCUT
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL(S)
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VES	VINYL EDGE STRIP
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VTW	VENT THROUGH WALL
VWC	VINYL WALL COVERING
VWFC	VIEW WINDOW FRAME COLOR
W	WEST, WIDE
WEJC	WALL EXPANSION JOINT COVER
WB	WALL BASE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WG	WIRE GLASS
WH	WALL HYDRANT
WIN	WINDOW
WP	WATERPROOFING
WTG	WALL TILE GROUT
WWF	WELDED WIRE FABRIC
WS	WINDOW SILL
W/	WITH
W/D	WASHER/ DRYER
W/O	WITHOUT
@	AT
&	AND

KEYPLAN



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GENERAL NOTES

1. NO PRODUCTS CONTAINING ASBESTOS SHALL BE INSTALLED ON THIS JOB.
2. No product containing lead shall be used in the potable water system, such as in drinking fountains, copper pipe solder joints, etc. Lead-free pipes, solder and flux shall be used for potable water plumbing system.
3. Dielectric adaptors shall be used when pipes of dissimilar metals are being connected.
4. It is the responsibility of the General Contractor to environmentally control the building to install materials which are affected by climatic conditions. In the event that the buildings new HVAC is used for this purpose, the warranty shall not begin until the date of substantial completion.
5. All floor mounted water heaters, floor mounted HVAC units and electrical panels shall be set on a (minimum) 6" high concrete housekeeping pad.
6. Field measure/verify all dimensions before fabricating or constructing. Notify Architect of any discrepancies before performing any work.
7. See Specification Section 01300-Allowances for completing remedial work at rated walls, which shall include, but not limited to:
   a. Any existing penetrations through rated walls that are open, shall be sealed with fire caulk. The original contract drawings will be made available for determining rated walls. See Detail 2/A2.02 for typical examples of penetrating rated walls.
   b. If not in place, identify all rated walls, using 2" high letters, stencil @ 12'-0" o.c.(above the finished ceiling), the indication of the appropriate rating i.e. "1-HR Fire and Smoke Barrier-Protect All Openings as Required". The original contract drawings will be made available for determining rated walls.
   c. See Detail 2/A3.02 for the general composition of the secondary and finish ceiling. The secondary ceiling shall be repaired/new panels placed, if damaged/missing.
8. Contractor shall take care to protect all existing adjacent materials from being damaged during this work.
9. For all new or existing concrete masonry units receiving new paint, fill all nail holes and cracks, repair chipped/cracked block, apply sufficient block-fill to receive new paint finish.
10. "Tooth-in" all brick and block work at in-fills.
11. Where materials that are glued to walls are removed, completely remove residual glue from wall surface.
12. In specific classrooms noted on the Reflected Ceiling Plans, the ceiling tiles shall be removed for the purpose of re-installing them as "replacement tile" in other spaces where mechanical grilles, emergency lights, etc have been removed.
The intent is for the replacement tiles to be installed in these locations in order to match adjacent tiles. In those specific classrooms, the ceiling grid shall remain in place and new acoustical tiles shall be installed. Refer to the Reflected Ceiling Plans for location of those classrooms.
13. Where ceiling tiles are removed to facilitate mechanical or electrical work above the ceiling, reinstall the ceiling tile if in good condition. If damaged, install a ceiling tile from the "replacement tile" stock noted in Note 12.
14. The Contractor shall have a low voltage sub-contractor to disconnect any low voltage items in the ceiling where new ceiling tiles are to be installed. The low voltage sub-contractor shall install the low voltage items in the new ceiling tiles, reconnect and ensure each is working properly.
15. See Mechanical Drawings for the removal and replacement of HVAC units, exhaust fans, wall and ceiling heaters.
16. See Electrical Drawings for the removal and replacement of light fixtures (including exit signs), installation of dimming system and occupancy sensors.

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SCOPE OF WORK

THE SCOPE OF WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
1. REPLACE ALL GAS FIRED WALL HUNG HEAT PUMPS, EXCEPT FOR THOSE IN THE GYM AND NEW WING E, AND PROVIDE NEW DISCONNECTS.
2. PROVIDE DRY WELLS FOR CONDENSATE LINES TO DRAIN INTO.
3. CONNECT THE FOUR EXISTING WHHP IN GYM TO THE BUILDING AUTOMATION SYSTEM (BAS).
4. REPLACE ALL PTAC UNITS AND OUTSIDE LOUVERS, EXCEPT IN THE NEW WING E.
5. REPLACE ALL EXHAUST FANS, EXCEPT IN THE NEW WING E.
6. REPLACE ALL WALL HEATERS, EXCEPT IN THE NEW WING E.
7. REPLACE ALL CEILING UNIT HEATERS IN CORRIDORS AND TOILETS, EXCEPT IN THE NEW WING E.
8. ADD MINI-SPLIT UNIT IN THE DRY FOOD STORAGE ROOM IN KITCHEN.
9. REMOVE THE EXISTING GRAVITY FAN IN THE DRY FOOD STORAGE ROOM AND REPAIR ROOF. SEE DETAIL.
10. REPLACE ALL MINI-SPLIT UNITS (INDOOR AND OUTDOOR UNITS), EXCEPT IN THE NEW WING E.
11. REPLACE ALL CEILING DIFFUSERS AND GRILLES (INCLUDING AT EXHAUST FANS), EXCEPT IN THE NEW WING E.
12. ENSURE ALL UNITS, NEW AND EXISTING, ARE CONNECTED TO THE BAS.
13. REPLACE ALL LIGHT FIXTURES WITH NEW LED LIGHTS, EXCEPT NOT THE EXTERIOR LIGHTING, LIGHTING IN THE NEW WING E, CAFETERIA AND KITCHEN, AND WING C ROOM 301.
14. PROVIDE DIMMERS FOR ALL CLASSROOM LIGHTING, INCLUDING THE NEW WING E.
15. PROVIDE OCCUPANCY SENSORS AS REQUIRED BY NEC.
16. REPLACE CEILING GRID AND/OR TILES ONLY AS SHOWN ON THE REFLECTED CEILING PLANS.
17. TOUCH UP PAINT ON WALLS, ETC., TO MATCH WHERE SURFACES ARE DAMAGED BY THE WORK OF THIS PROJECT.
18. SEE ALLOWANCES SECTION OF THE SPECIFICATIONS.
19. SEE ALTERNATES SECTION OF THE SPECIFICATIONS.
20. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK NOT LISTED HERE.

SET NO. ______________________________

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NO.	REVISIONS	DATE

CONSTRUCTION DOCUMENTS

TITLE SHEET
SCALE: AS NOTED
SHEET
T1.01
1 OF 30

FILE: 18.10
DATE: 12/14/18

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