PROJECT: OWNER: ARCHITECT: M.E.P. ENGINEER: STRUCTURAL ENGINEER: CIVIL ENGINEER:

# HENDERSON COUNTY HIGH SCHOOL CTE RENOVATION

HENDERSON COUNTY SCHOOLS 1805 2nd ST, HENDERSON, KY 42420

DR. BOB LAMSON SUPERINTENDENT

CHAD THOMPSON ASSISTANT SUPERINTENDENT

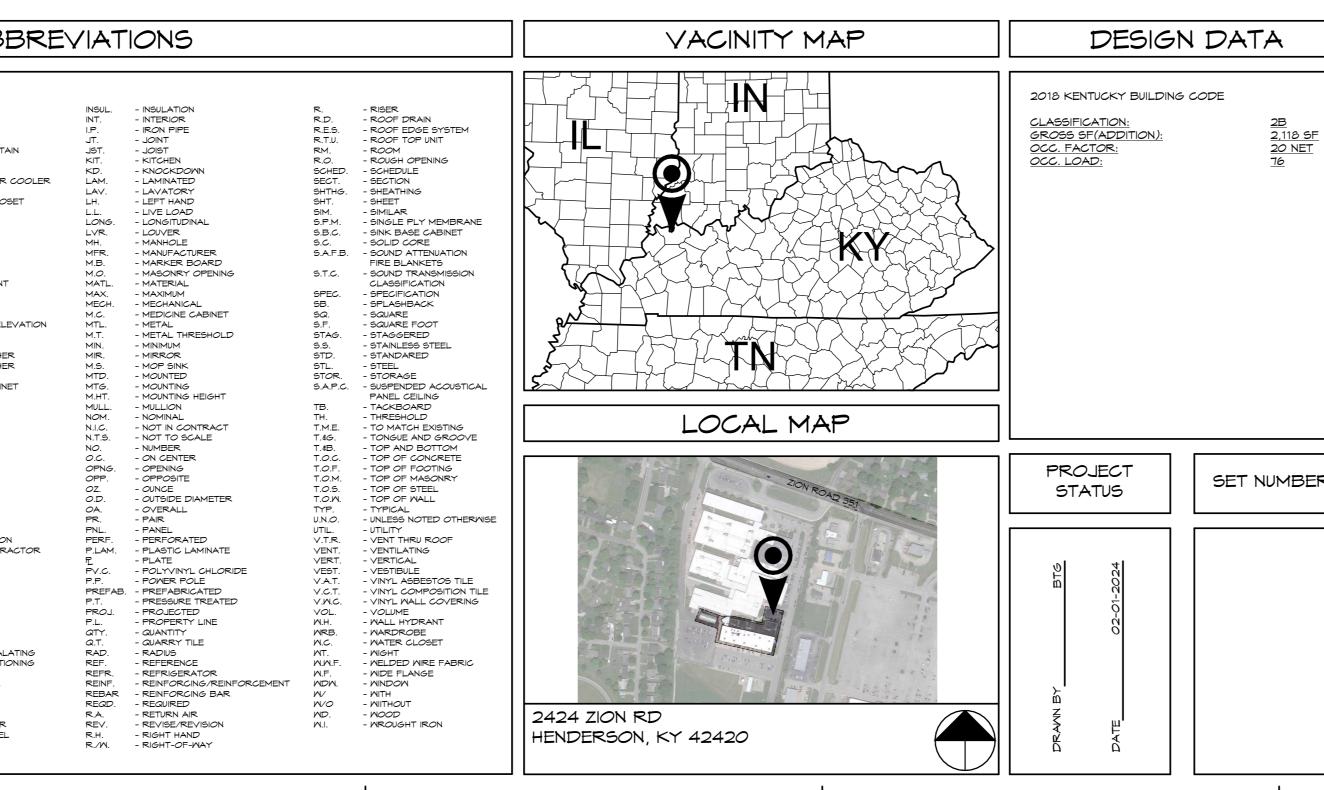
R.B.S. DESIGN GROUP, P.S.C. 723 HARVARD DRIVE OWENSBORO, KENTUCKY 42301 270-683-1158 (F)270-683-2446

C.M.T.A. 115 MEMORIAL DRIVE PADUCAH, KENTUCKY 42001 270-984-0066

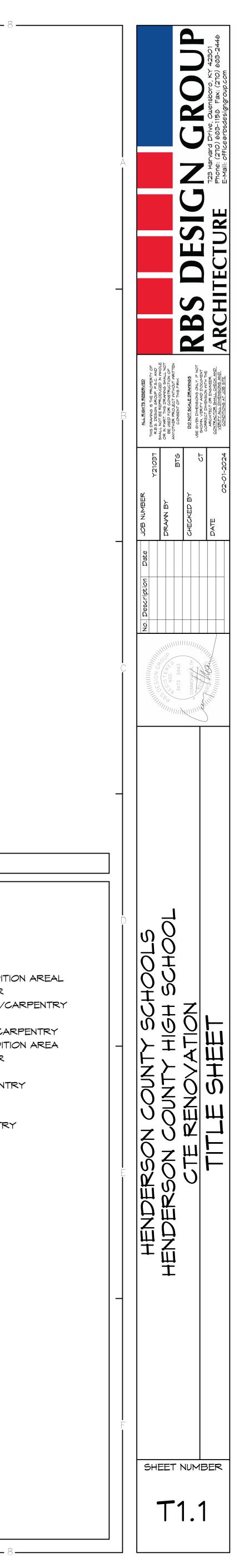
WILKIE STRUCTURAL ENGINEERING, INC. 20 NM THIRD ST. SUITE 1220 EVANSVILLE, INDIANA 47708 812-423-6347

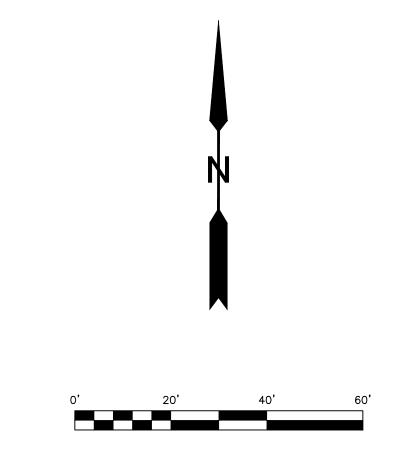
ASSOCIATED ENGINEERS, INC. 2740 N. MAIN STREET MADISONVILLE, KENTUCKY 42431 270-821-7732

MATERIA	L & GRAPHIC	SYMBOLS		AB
	DRAINAGE FILL	DGA	A.F.F ABOVE FINISH FLOOR	DN DOWN
CONCRETE		CEMENTITIOUS DECKS AND TOPPINGS	ACOUS ACOUSTICAL ADJ ADJUSTABLE A.C AIR CONDITIONER A.H.U AIR HANDLING UNIT ALUM ALUMINUM	DS DOMNSPOUT DRN DRAIN DWG DRAWING D.F DRINKING FOUNT EA EACH
MASONRY CMU (FLAN)	GROUT CMU (ELEV) SPLIT FACE CMU (ELEV)	BRICK (SECT., PLAN)	A.B ANCHOR BOLT APPROX APPROXIMATE A/E - ARCHITECT/ENGINEER A.D AREA DRAIN AVG AVERAGE B.C BASE CABINET BSMT BASEMENT	E.M.         - EACH WAY           E.M.C.         - ELECTRIC WATER           ELEC.         - ELECTRICAL           E.C.         - ELECTRICAL CLO           EL.         - ELEVATION           ELEV.         - ELEVATION           E.Q.         - ELEVATOR           E.Q.         - EQUAL
STONE RUBBLE STONE (ELEV.)	CUT STONE (SECT.)		BM BEAM BRG - BEARING B.M BENCH MARK BLK BLOCK BLKG BLOCKING BD BOARD	EQUIP EQUIPMENT EXH EXHAUST EXIST EXISTING EXP EXPANSION E.J EXPANSION JOIN EXT EXTERIOR
METAL WOOD FINISH WOOD (SECT.)	CONT. WOOD FRAMING	MOOD BLOCKING	BOT BOTTOM B.O.F BOTTOM OF FOOTING B.T.U - BRITISH THERMAL UNIT BLDG BUILDING B.U.R BUILT-UP ROOFING B.N BUILL NOSE B.B BULLETIN BOARD CAB CABINET C.I CAST IRON	FIN FINISH FIN. FL FINISH FLOOR F.F.E FROM FLOOR E FIN. GRD FINISH GRADE FRD FIRE DAMPER F.E FIRE EXTINGUISH F.E.C FIRE EXTINGUISH AND CABINET F.H.C FIRE HOSE CABI
GLAZING GLASS (ELEV.)	GLASS (PLAN)	GLASS BLOCK (ELEV.)	C.I.P CAST IRON PIPE CLG CEILING CLG. HT CEILING HEIGHT CTR CENTER G - CENTER LINE	F.H FIRE HYDRANT F.TD FIRE TREATED FIX FIXTURE F.G FIXED GLASS FLEX FLEXIBLE
INSULATION	E.I.F.S. (ELEV.)	E.I.F.S. (SECT.)	C/C - CENTER TO CENTER CER CERAMIC CB CHALKBOARD CLRM CLASSROOM CO CLEANOUT	FLR FLOOR F.D FLOOR DRAIN FLOUR FLOOR DRAIN FLOUR FLOOR FLOURESCENT FT FOOT/FEET FTG FOOTING
FINISHES GYP. BOARD	CERAMIC TILE	CARPET (SECT.)	CLR CLEAR C.M COLD WATER COL COLD WATER COMB COMBINATION CONG CONCRETE C.M.U CONCRETE MASONRY UNIT CONF CONFERENCE	FDN FOUNDATION FRM FRAME GA GUAGE GALV GALVANIZED G.I GALVANIZED IRC G.C GENERAL CONTI G.B GRAB BAR
PARTITIONS	METAL STUD	CAST-IN-PLACE CONC	CONN CONNECTION CONSTR CONSTRUCTION CONT CONTINUOUS CONTR CONTRACTOR C.J CONTROL JOINT	GRD GRADE GRD. BM GRADE BEAM GYP GYPSUM H.D HAND DRYER HC HANDICAPPED
SYMBOLS ROOM CLG HT (IF SHOWN) CLG HT (IF SHOWN) CLG HT (IF SHOWN) ROOM TAG COLUMN REFERENCE GRID CLG TYPE A 8' - 0" CEILING TAG	C WINDOW TYPE 101 DOOR NUMBER 04-A1 KEYNOTE FORMAT: (SPEC SECTION)-(NOTE ID) 2 TOILET ACCESSORY	1     DETAIL       Image: Description point     Positive drainage       Image: Description point     Section/Elevation	C.J CONTROL JOINT CORR CORRIDOR CTSK COUNTERSINK C.F.M CUBIC FEET PER MINUTE D.L DEAD LOAD DTL DETAIL DIAG DIAGONAL DIA DIAMETER DIM DIMENSION DM DIMENSION DM DIVISION DR DOUBLE DBL DOUBLE	HC HANDICAPPED HDBD HARDBOARD HDW HARDWARE HTR HEATER H.V.A.C HEATING, VENTA AND AIR CONDIT HT HEIGHT H.M HOLLOW METAL H.B HOSE BIBB HORIZ HORIZONTAL HR HOUR I.D INSIDE DIAMETEI INSUL INSULATED PANE PNL.



M6.0 M7.0 M7.1 O7-EL E1.0 E2.0 E2.1 E2.2 E2.3 E2.4 E2.5 E2.6 E3.0 E3.1 E3.2 E4.0 E4.1 E4.2 E4.3 E4.2 E4.3 E4.4 E5.0 E5.1 E5.1 E6.0 E6.1 E7.0	LIGHTING DEMOLITION PLAN - GANG RR LIGHTING DEMOLITION PLAN - WELDING/CA POWER DEMOLITION PLAN - GANG RR POWER DEMOLITION PLAN - WELDING/CAR SYSTEMS DEMOLITION PLAN - CTE ADDITION SYSTEMS DEMOLITION PLAN - GANG RR NEW LIGHTING PLAN - GANG RR NEW LIGHTING PLAN - WELDING/CARPENTR NEW LIGHTING PLAN - CTE ADDITION NEW POWER PLAN - GANG RR
M7.0 M7.1 O7-EL E1.0 E2.0 E2.1 E2.2 E2.3 E2.4 E2.5 E2.6 E3.0 E3.1 E3.2 E4.0 E4.1 E4.2 E4.3 E4.4 E5.0 E5.1 E6.0 E6.1	MECHANICAL CONTROLS MECHANICAL CONTROLS ECTRICAL ELECTRICAL LEGEND LIGHTING DEMOLITION PLAN - CTE ADDITION LIGHTING DEMOLITION PLAN - GANG RR LIGHTING DEMOLITION PLAN - GANG RR POWER DEMOLITION PLAN - WELDING/CAP SYSTEMS DEMOLITION PLAN - WELDING/CAP SYSTEMS DEMOLITION PLAN - CTE ADDITION SYSTEMS DEMOLITION PLAN - CTE ADDITION SYSTEMS DEMOLITION PLAN - GANG RR NEW LIGHTING PLAN - GANG RR NEW LIGHTING PLAN - GANG RR NEW LIGHTING PLAN - CTE ADDITION NEW POWER PLAN - GANG RR NEW POWER PLAN - GANG RR NEW POWER PLAN - CTE ADDITION HVAC POWER ROOF PLAN NEW ELECTRICAL PLAN - PLAN SOUTH NEW SYSTEMS PLAN - CTE ADDITION ELECTRICAL DETAILS ELECTRICAL DETAILS
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E5.1 E6.0 E6.1	NEW SYSTEMS PLAN - CTE ADDITION ELECTRICAL DETAILS ELECTRICAL DETAILS
E6.0 E6.1	ELECTRICAL DETAILS ELECTRICAL DETAILS
E6.1	ELECTRICAL DETAILS
ET O	
E8.0	ELECTRICAL PANEL SCHEDULES
E8.1	ELECTRICAL PANEL SCHEDULES
U1.0	SITE UTILITY PLAN
08-F1F	RE PROTECTION
FP1.0	FIRE PROTECTION LEGEND
FP2.0	FIRE PROTECTION PLAN





	EXISTING CONCRETE/ASPHALT
G G	EXISTING GAS LINE
U/E	EXISTING UNDERGROUND ELECTRIC LINE
——— ОНЕ ———	EXISTING OVERHEAD ELECTRIC
FO	EXISTING UNDERGROUND FIBER
	EXISTING STORM WATER LINE
s s	EXISTING SANITARY SEWER LINE
	EXISTING CONTOUR
x x	EXISTING FENCE/HANDRAIL
	EXISTING BUILDING
	EXISTING ASPHALT
	EXISTING CONCRETE
CO	EXISTING CLEANOUT

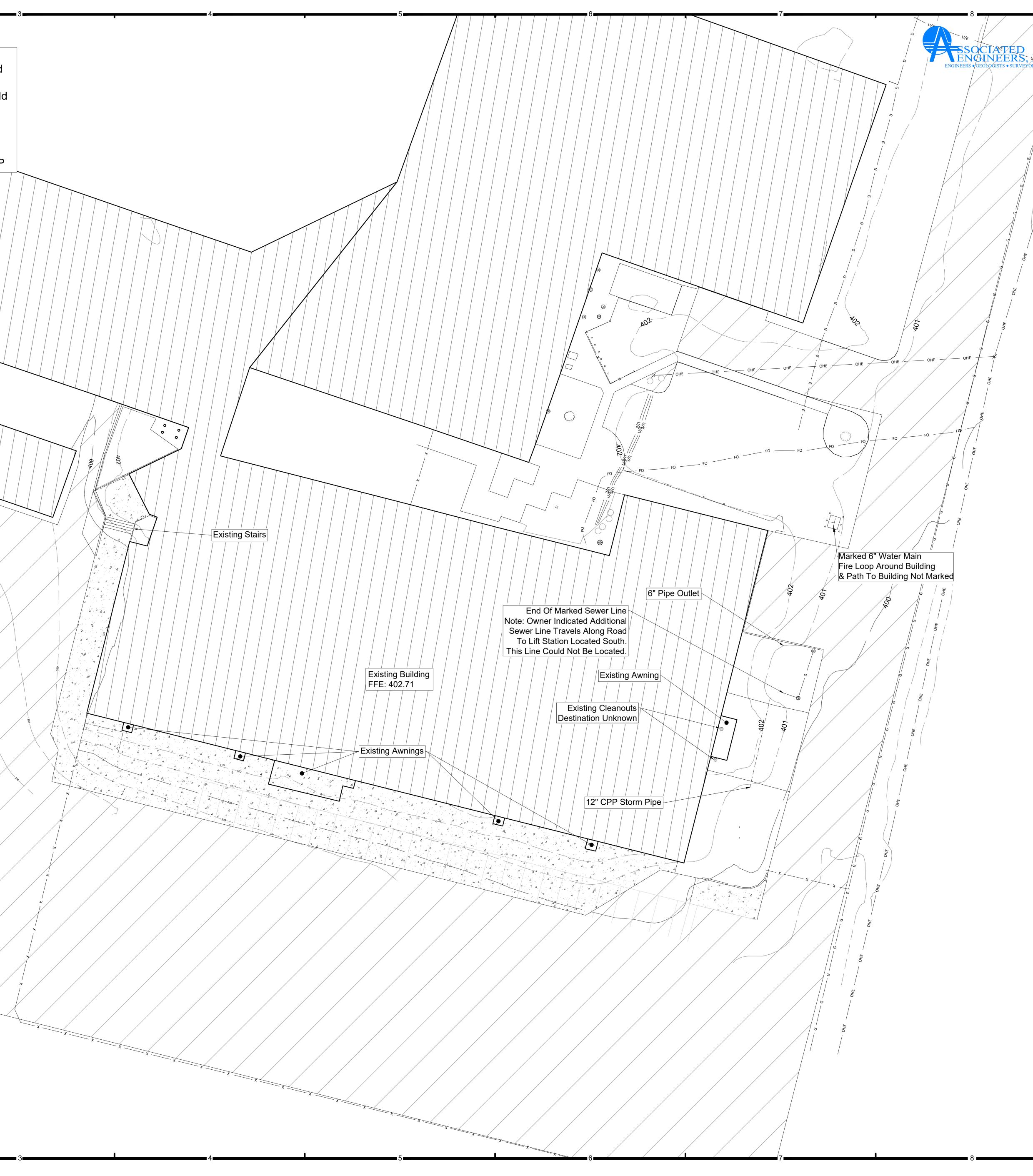
### General Notes:

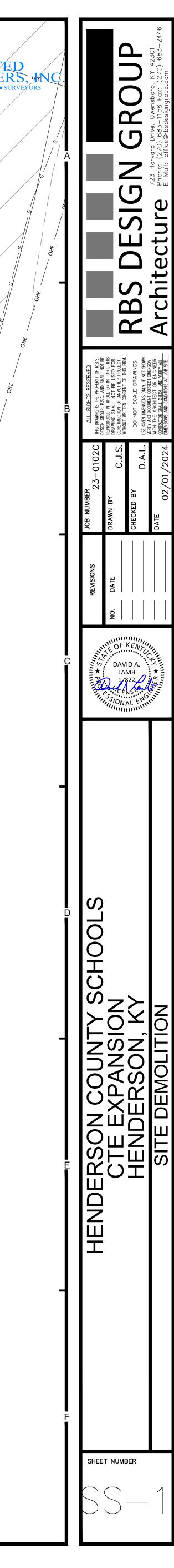
- The Property Described Hereon Is Subject To All Legal Easements And Rights-Of-Way Of Record.
- The Property Owner Is Responsible For Surface And Sub-Surface Drainage Related To His/Her Lands, And Shall Provide For Such Drainage In A Way As To Properly Relieve Water Without Interfering With Or Adding To Drainage Matters Related To Or From His/Her Land Onto Adjacent Property.
- 3. It is The Responsibility Of The Site Developer To Obtain All Appropriate Permits From All The Governing Agencies That Have Jurisdiction Over The Area Where The Work Is Proposed To Be Done.
- 4. All Utilities As Shown On This Plan Are Based On Locations Marked In The Field By The Respective Utility Companies Or Private Lines Derived From Information Provided By Owner Employees. All Private Lines Are Approximate And Must Be Verified In The Field By The Contractor. All Lines Discovered Or Lines Not In Marked Location Depicted Must Be Notified To The Architect And Engineer.
- Contractor Must Verify All Utility Locations Prior To Construction. Do Not Disturb Existing Utilities During Construction.
- Contractor Must Maintain Code Compliant Cover Height Above All Existing And Proposed Utility Piping.
   Source Of Elevations Is From Topographic Survey Developed With Aerial UAV Lidar.
- All Areas Must Be Graded To Provide Proper Drainage Away From Buildings/Courts And Into Stormwater Structures And Swales. Maintain Positive Drainage Away From Buildings.
- All Dimensions Are Measured To The Face Of Curb Or Edge Of Pavement, Unless Otherwise Noted.
- 10. At Interface Locations Of Existing And Proposed Pavement, The Proposed Pavement Shall Match The Existing Grade.
- 11. Slopes Shall Not Exceed 3:1, Unless Specified Otherwise On This Plan.
- 12. Existing Pavement, Outside The Limits Of Disturbance Marked On This Plan, Damaged During Construction Shall Be Replaced At Contractor's Expense. All Damage To Existing Track, Pathways, Etc. Caused From Demolition & Construction Activities Shall Be Repaired At Contractors Expense.
- 13. No Grading, Stripping, Excavation, Filling, Or Other Disturbance Of The Natural Ground Shall Take Place Unless and Until All Erosion Control Structures Are Properly Installed.
- 14. All Potential Erosion Shall Be Controlled In Such A Manner So As To Prevent Any Displacement Of Silt From The Construction Area. This Control Shall Be Implemented Through Proper Installation Of Silt Fence And/Or Straw Bales During The Construction Duration And Maintained Until Proper Ground Cover Has Been Established.
- 15. The Contractor Shall Be Solely Responsible For The Removal Of Erosion Prevention And Sedimentation Control Structures After Construction Is Complete, But Only After Permanent Ground Cover Is Established At The Site.
- 16. The Contractor Shall Be Solely Responsible For Removing Dirt And Debris Caused By Construction Activities Related To This Site From Any Onsite Or Offsite Property Of Public Improvements, Including But Not Limited To Paved Surfaces And Drainage Systems.

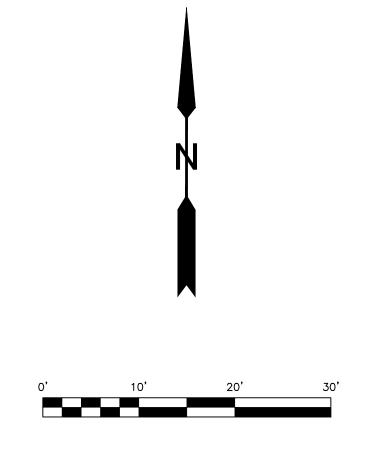
DO NOT SCALE DRAWINGS USE GIVEN DIMENSIONS ONLY. IF DIMENSION IS NOT SHOWN, VERIFY AND DOCUMENT CORRECT DIMENSION WITH THE ENGINEER. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE.



Note: Unmarked Utilities (Sewer, Water, Etc) Expected In The Area Of The Project. Exploratory Excavation & Field Verification Required. Reroute All Existring Utilities As Needed. Coordinate All Work With, Arch., Structural, Civil, & MEP







	EXISTING CONCRETE/ASPHALT
G G	EXISTING GAS LINE
U/E	EXISTING UNDERGROUND ELECTRIC LINE
——— ОНЕ ———	EXISTING OVERHEAD ELECTRIC
———— FO ————	EXISTING UNDERGROUND FIBER
	EXISTING STORM WATER LINE
s s	EXISTING SANITARY SEWER LINE
	EXISTING CONTOUR
	EXISTING BUILDING
	EXISTING ASPHALT REMOVED

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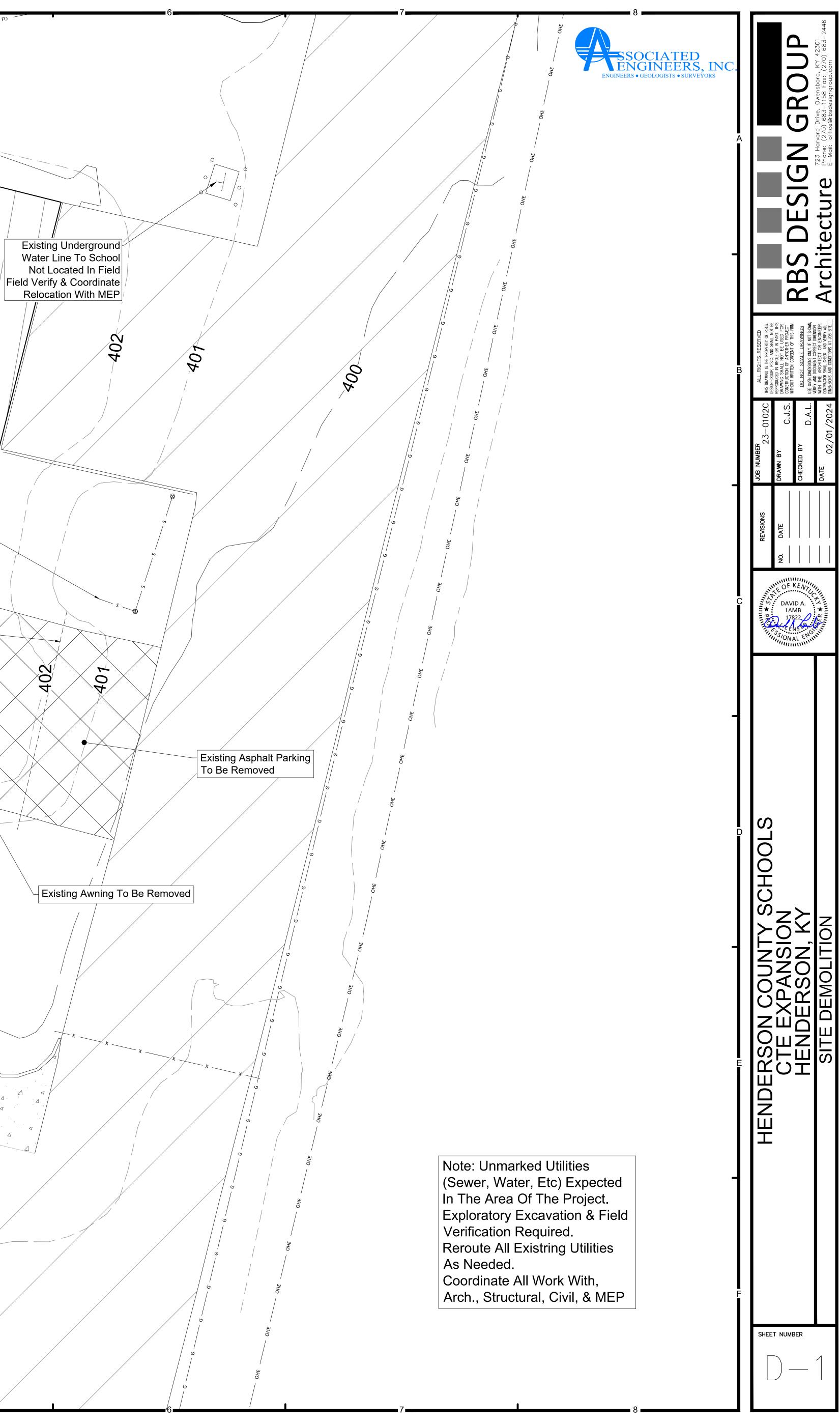
### General Notes:

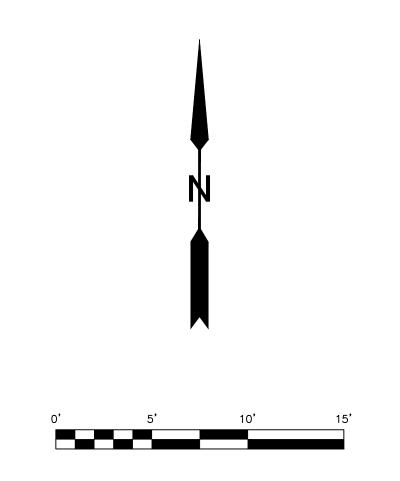
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Existing Sewer Line Direction To Building Extents Unknown Existing 12" CPP Storm Line To Be Removed  $\mathbf{N}'$ ×O Existing Cleanouts To Be Relocated Existing Lines From Building To Main Line Unknown, Field Verify V Δ  $\Delta$   $\triangleleft$ Z,





	EXISTING CONCRETE/ASPHALT
G G	EXISTING GAS LINE
	EXISTING UNDERGROUND ELECTRIC LINE
OHE	EXISTING OVERHEAD ELECTRIC
FO	EXISTING UNDERGROUND FIBER
	EXISTING STORM WATER LINE
S S	EXISTING SANITARY SEWER LINE
<u> </u>	EXISTING CONTOUR
	EXISTING BUILDING

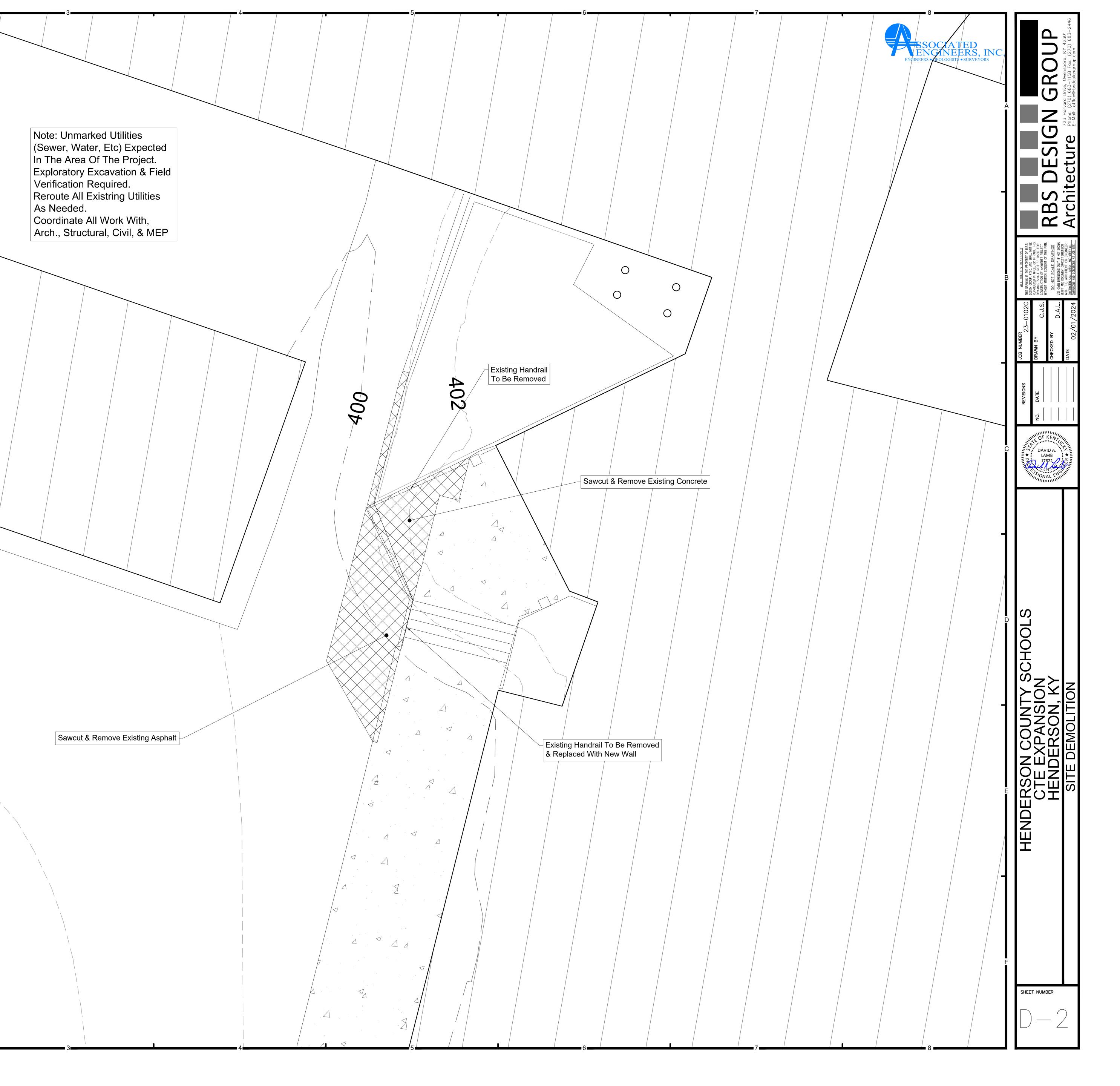
EXISTING ASPHALT/CONCRETE REMOVED

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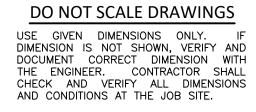
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	EXISTING CONCRETE/ASPHALT
G G	EXISTING GAS LINE
U/E	EXISTING UNDERGROUND ELECTRIC LINE
ОНЕ	EXISTING OVERHEAD ELECTRIC
FO	EXISTING UNDERGROUND FIBER
	EXISTING STORM WATER LINE
S S	EXISTING SANITARY SEWER LINE
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	PROPOSED CONCRETE SIDEWALK

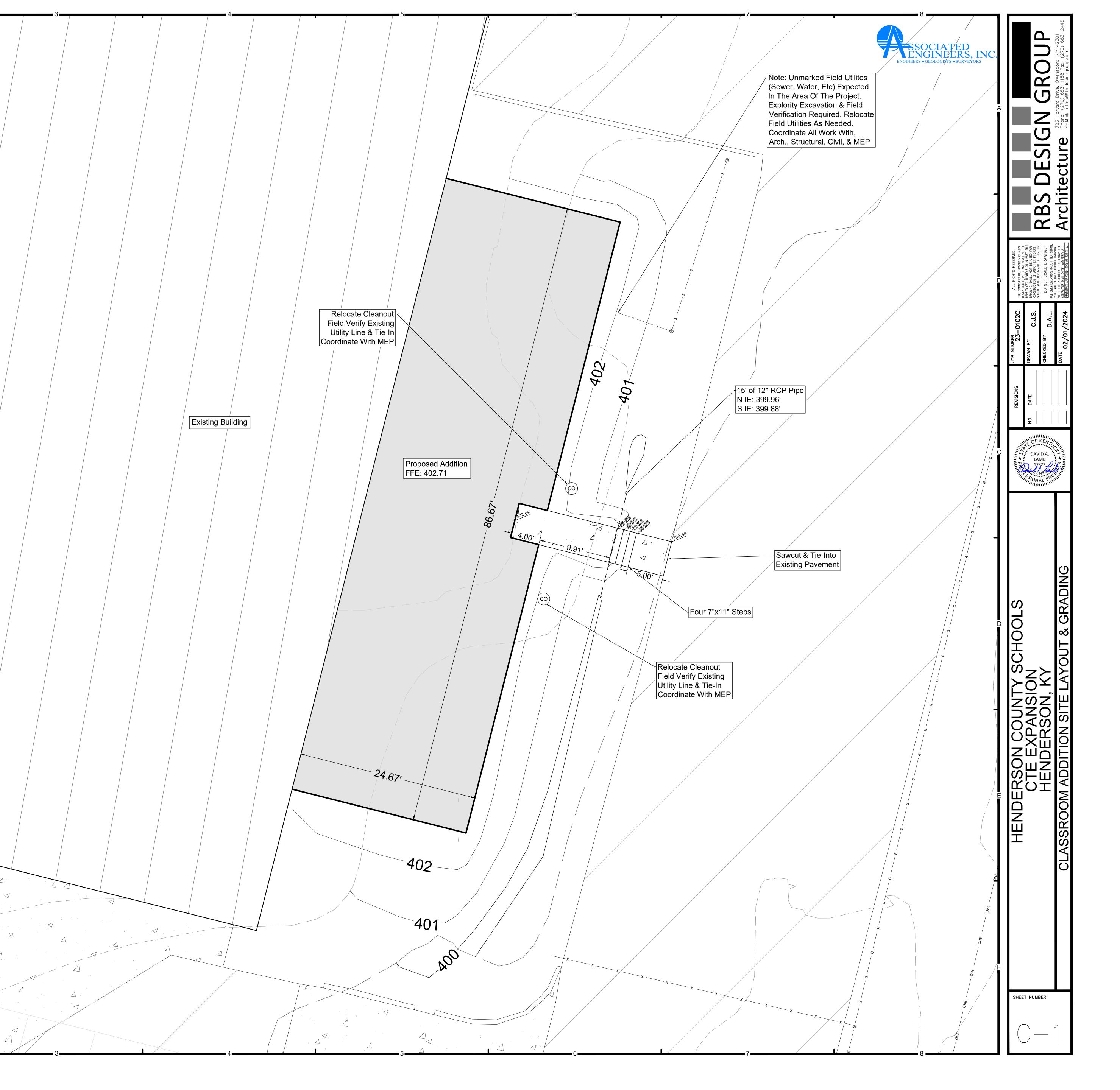
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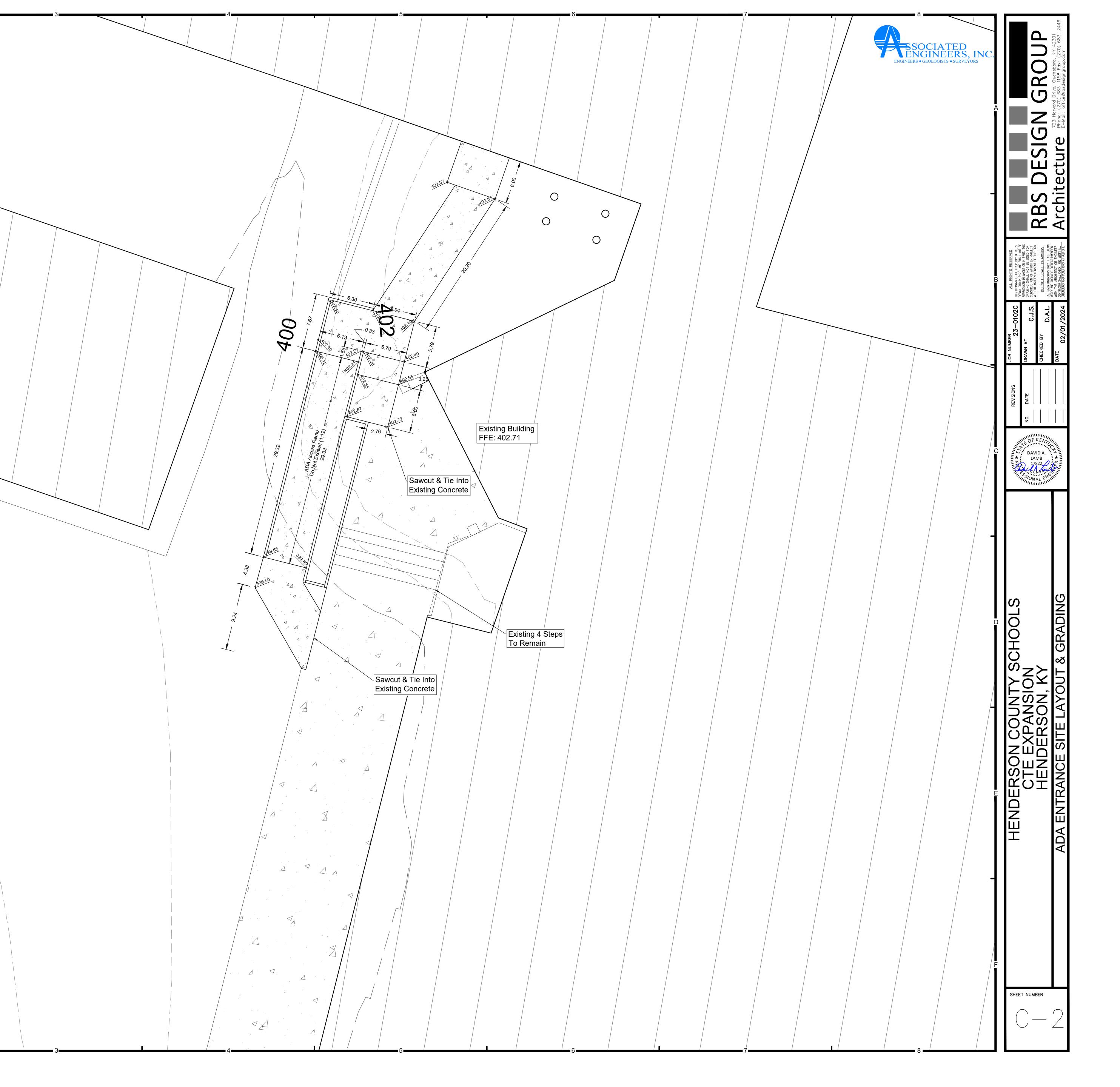
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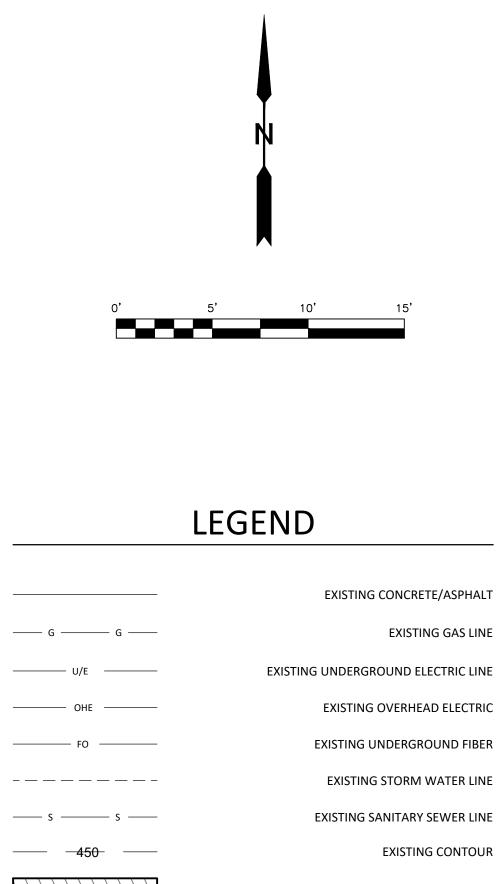
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EXISTING CONTOUR EXISTING BUILDING PROPOSED BUILDING PROPOSED CONCRETE SIDEWALK/PAD

PROPOSED CONCRETE BOLLARD

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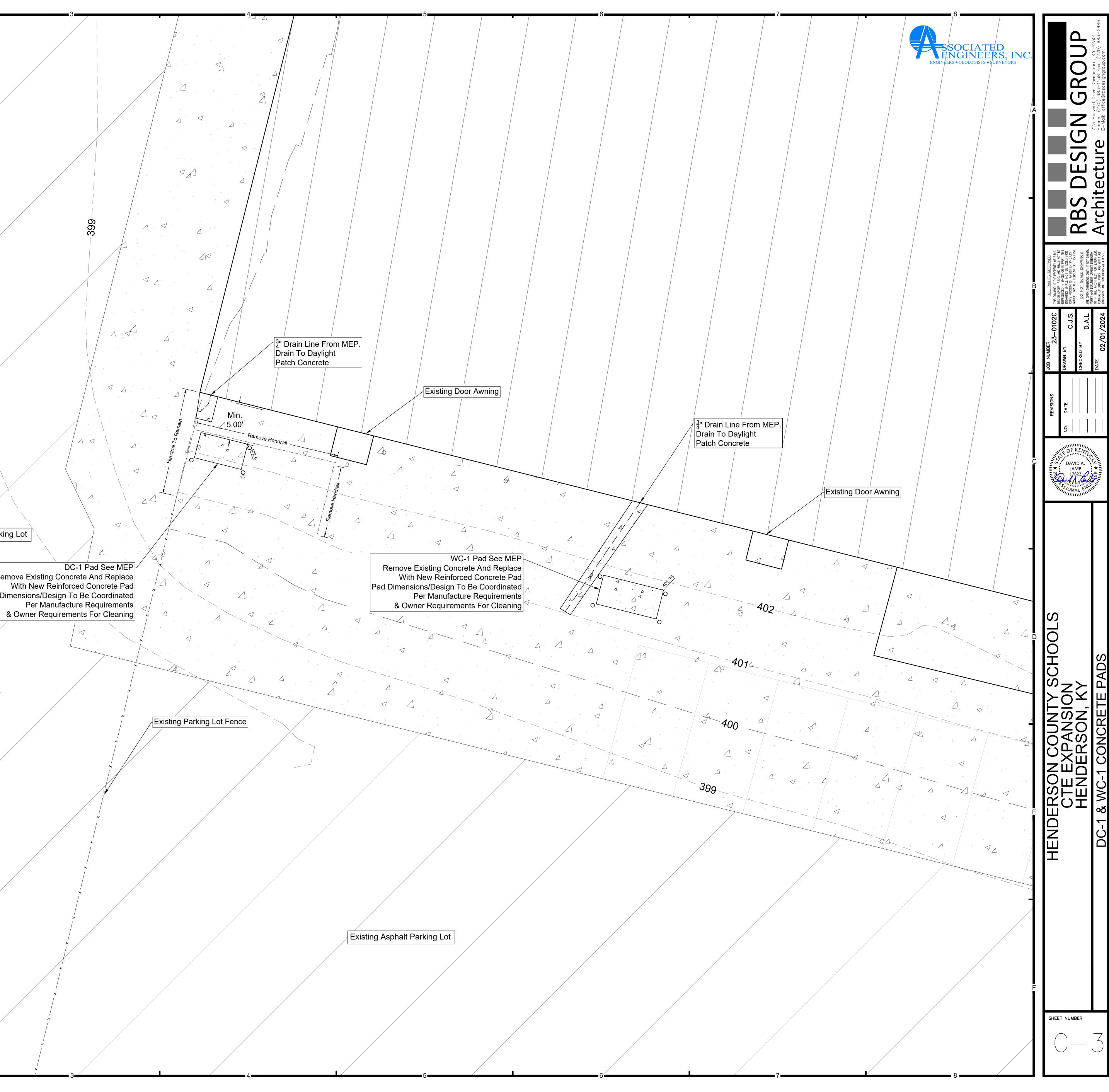




USON N

365

Remove Existing Concrete And Replace Pad Dimensions/Design To Be Coordinated

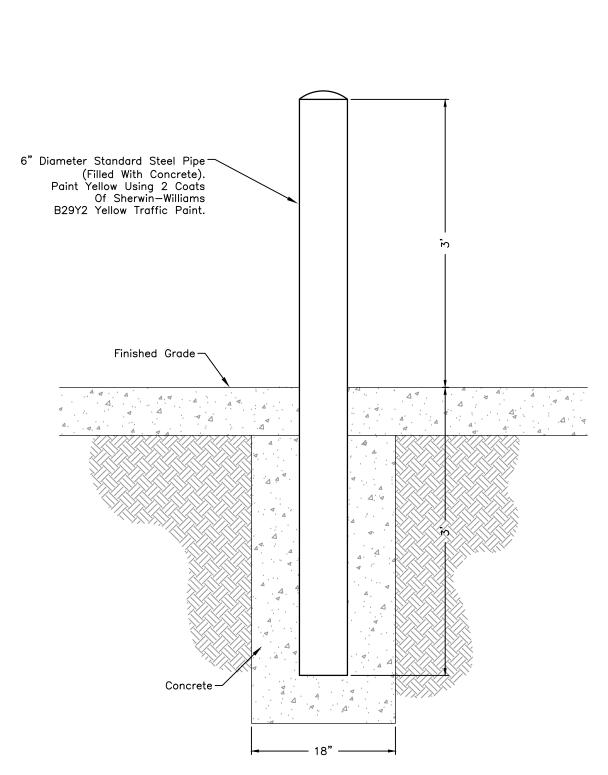




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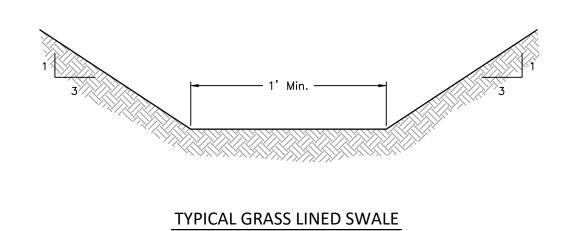


6" PIPE BOLLARD N.T.S.

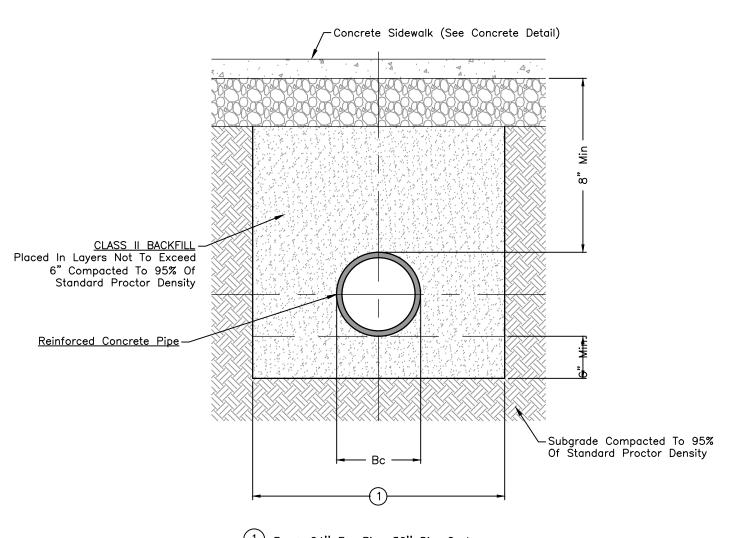


Sidewalk – Width According To Site Plan Troweled Edging Req'd, Typ.

CONCRETE SIDEWALK



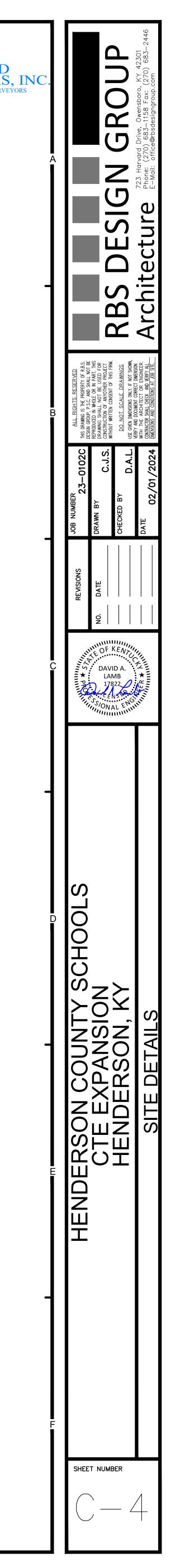
N.T.S.



1 Bc + 24" For Pipe 36" Dia. Or Less Bc + 48" For Pipe Greater Than 36" Dia.

PIPE BEDDING DETAIL - PAVEMENT N.T.S.





	SLAB ON GRADE LIVE LOAD	loo psf
	ROOF LIVE LOAD	
		20 psf
	SNOW, WIND, SEISMIC	2018 KENTUCKY BUILDING CODE
	RISK CATEGORY	
	NOW LOAD	
	OW EXPOSURE FACTOR, CO	1.0
	OW LOAD IMPORTANCE FACTOR, IS	1.1
	ERMAL FACTOR, Ct	
	OUND SNOW LOAD, Pg	15 psf
	AT ROOF SNOW LOAD, PF	II.6 psf
	IIND LOAD	
ULT	IMATE WIND SPEED	I20 MPH
MIN	ID EXPOSURE CATEGORY	C
<u>D - S</u>	<u>EISMIC</u>	
MA	PPED SPECTRAL RESPONSE ACCELERATION	IS, S₅ 0.676
MA	PPED SPECTRAL RESPONSE ACCELERATION	IS, S1 0.230
SPE	ECTRAL RESPONSE COEFFICIENT, S DS	0.567
SPE	ECTRAL RESPONSE COEFFICIENT, S DI	0.297
SEI	SMIC IMPORTANCE FACTOR, le	1.25
SIT	E CLASS	D
SEI	SMIC DESIGN CATEGORY	$\square$
SP	ECIAL REINFORCED MASONRY SHEAR WALLS	6
RE	SPONSE MODIFICATION COEFFICIENT, R	5
SEI	SMIC RESPONSE COEFFICIENT, CS	0.142
EQI	JIVALENT LATERAL FORCE PROCEDURE	
<u>E - S</u>	OIL PRESSURES:	P.S.F
-	- SPREAD FOOTINGS	1,000
<u>F - E</u>	XCAVATION AND BACKFILLING:	
2 A 3	- A MINIMUM OF 8" OF TOP SOIL IS TO BE RE - WHERE FILL IS REQUIRED UNDER SLABS, SI S PROJECT SPECIFICATIONS. - WALLS WITH FILL ON BOTH SIDES: PLACE MAXIMUM DIFFERENTIAL IN HEIGHT AT ANY	IDEWALKS, TRENCHES, ETC., IT SHALL BE FILL EQUALLY EACH SIDE WITH A 1'-0
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### H - STRUCTURAL AND MISC. STEEL:

- I ALL STRUCTURAL STEEL SHALL BE ASTM A992, UNLESS NOTED.
- 2 ANGLES, CHANNELS, AND PLATES SHALL BE ASTM A36.
- 3 TUBE STEEL SHALL BE ASTM A500 GRADE B (46 KSI).
- 4 SHOP CONNECTIONS GENERALLY TO BE WELDED. USE ETOXX WELD RODS. FABRICATOR HAS OPTION OF PROVIDING SHOP BOLTED CONNECTIONS.
- 5 FIELD CONNECTIONS TO BE BOLTED WITH 3/4" A325 BOLTS, UNLESS NOTED .
- 6 STEEL FABRICATION AND ERECTION SHALL ADHERE TO THE REQUIREMENTS OF AISC MANUAL OF STEEL CONSTRUCTION, 9th EDITION AND THE AISC "CODE OF STANDARD PRACTICE".
- 7 STEEL JOISTS TO CONFORM TO THE SPECIFICATIONS OF THE JOINT AISC-SJI "STANDARD SPECIFICATIONS FOR OPEN WEB JOISTS AND LONG SPAN STEEL JOISTS", LATEST EDITION.
- 8 STEEL JOISTS SHALL HAVE DOUBLE ANGLE BOTTOM CHORDS.
- 9 USE ETOI8 WELD RODS FOR ALL DECK WELDS.
- 10 SETS OF CHECKED SHOP DETAILS TO BE SUBMITTED FOR APPROVAL BEFORE BEGINNING FABRICATION. UNCHECKED SHOP DRAWINGS SUBMITTED FOR APPROVAL SHALL BE REJECTED. EACH SHEET OF SHOP DRAWINGS SHALL HAVE CHECKERS INITIALS OR NAME CLEARLY INDICATED.
- II PROVIDE LINTELS OVER MASONRY WALL OPENINGS AS FOLLOWS, UNLESS NOTED:

EACH 4" COURSE OF WALL	SPAN	SOLID BEARING
1L-312 X 312 X 14	UP TO 6'-0	6"
1L-4 X 3½ X ¼ 1L-5 X 3½ X 516	6'-0 TO 8'-0 8'-0 TO 10'-0	6" 8"
1L-6 × 312 × 3/8	10'-0 TO 12'-0	8"

- J REINFORCED MASONRY WALL NOTES:
- I USE 2-CORE LIGHT WEIGHT BLOCKS GRADE N TYPE I CONFORMING TO ASTM C90.
- 2 GROUT FOR CORES TO BE 7 BAG MIX WITH 36" TOP SIZE GRAVEL WITH A MINIMUM STRENGTH OF 3,000 psi. @ 28 DAYS AND SLUMP = 10" ± 1".
- 3 WEBS OF BLOCKS AT GROUTED CORES SHALL BE BUTTERED WITH MORTAR.
- 4 GROUT TO BE PLACED IN 4'-O LIFTS (MAXIMUM).
- 5 GROUT TO BE VIBRATED, ONCE IMMEDIATELY WHEN PLACED AND 30 MINUTES AFTER PLACING. USE "PENCIL" VIBRATOR. GROUT TO BE STOPPED TO FORM A 1/2" KEY AT JOINTS.
- 6 ALL WALLS TO BE INSTALLED AS RECOMMENDED IN THE "DESIGN MANUAL THE APPLICATION OF REINFORCED CONCRETE MASONRY LOAD BEARING WALLS IN MULTI-STORIED STRUCTURES" PUBLISHED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION.
- 7 MORTAR TO BE ASTM C270.
- 8 USE VERTICAL BAR POSITIONERS TO LOCATE BARS AS NOTED ON PLANS.
- 9 POSITION REINFORCING BARS PRIOR TO GROUT PLACEMENT. DO NOT FLOAT REBARS IN GROUTED CORE.

10 - LAP REINFORCING 40 BAR DIAMETERS.

### <u>K - MISC. ITEMS:</u>

- I NO CONDUIT OR CALCIUM CHLORIDE TO BE USED IN CONCRETE.
- 2 MECHANICAL OPENINGS NOT SHOWN OR SIZED ON PLANS TO BE SIZED AND LOCATED BY MECHANICAL CONTRACTOR WITH VERIFICATIONS MARKED ON DRAWINGS SUBMITTED FOR APPROVAL.
- 3 PLACE STANDARD WT., LADDER TYPE JOINT REINFORCING AT 16" CENTERS VERTICALLY IN ALL MASONRY WALLS, UNLESS NOTED. SPACE JOINT REINFORCING AT 8" VERTICALLY IN REINFORCED BRICK WALLS & PARAPET WALLS. USE 2 WIRE AT INTERIOR WALLS, UNLESS NOTED.
- 4 GENERAL CONTRACTOR TO LAYOUT NEW ADDITION. ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT'S OFFICE AS SOON AS POSSIBLE.
- 5 ROOF OPENINGS TO HAVE AN ANGLE FRAME. SEE TYPICAL DETAILS.
- 6 CONTRACTOR TO EMPLOY INDEPENDENT TESTING AGENCY TO VERIFY SOIL BEARING CAPACITY.

L - SPECIAL INSPECTIONS:

I - SPECIAL INSPECTIONS AS PER CHAPTER 17 SHALL BE PERFORMED AS FOLLOWS:

INSPECTION	INSPECTOR
CONCRETE	INDEPENDENT TESTING AGENCY EMPLOYED BY OWNER
SOILS & FOUNDATION	INDEPENDENT TESTING AGENCY EMPLOYED BY OWNER
MASONRY	INDEPENDENT TESTING AGENCY EMPLOYED BY OWNER
STRUCTURAL STEEL/JOIST	INDEPENDENT TESTING AGENCY EMPLOYED BY OWNER

### CONCRETE INSPECTIONS

ITEM	SCOPE	FREQUENCY
MIX DESIGN	REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THAT ALLOWED BY MIX DESIGN.	PERIODIC
CONCRETE PLACEMENT	INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.	CONTINUOUS
SAMPLING AND TESTING OF CONCRETE	TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C390, SLUMP (ASTM C143), AIR-CONTENT (ASTM C231 OR C173), AND TEMPERATURE (ASTM C1064).	CONTINUOUS
CURING AND PROTECTION	INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROCEDURES.	PERIODIC
FORMWORK	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC
REINFORCEMENT INSTALLATION	INSPECT SIZE, SPACING, COVER, POSITIONING AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.	PERIODIC
ANCHOR RODS	INSPECT SIZE, POSITIONING AND EMBEDMENT OF ANCHOR RODS. INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS.	CONTINUOUS

SOILS AND FOUNDATIONS INSPECTIONS

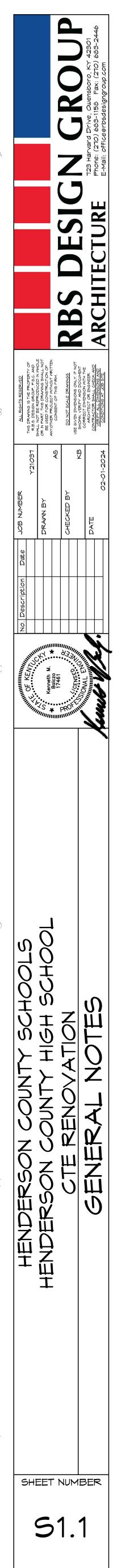
ITEM	SCOPE	FREQUENCY
SHALLOW FOUNDATIONS	INSPECT SOILS BELOW FOOTINGS FOR ADEQUATE BEARING CAPACITY AND CONSISTENCY WITH GEOTECHNICAL REPORT. INSPECT REMOVAL OF UNSUITABLE MATERIAL AND PREPARATION OF SUBGRADE PRIOR TO PLACEMENT OF CONTROLLED FILL.	PERIODIC
CONTROLLED STRUCTURAL FILL	PERFORM SIEVE TESTS (ASTM D422 & DII40) AND MODIFIED PROCTOR TESTS (ASTM DI557) OF EACH SOURCE OF FILL MATERIAL. INSPECT PLACEMENT, LIFT THICKNESS, AND COMPACTION OF CONTROLLED FILL. TEST DENSITY OF EACH LIFT OF FILL.	CONTINUOUS

### MASONRY INSPECTIONS

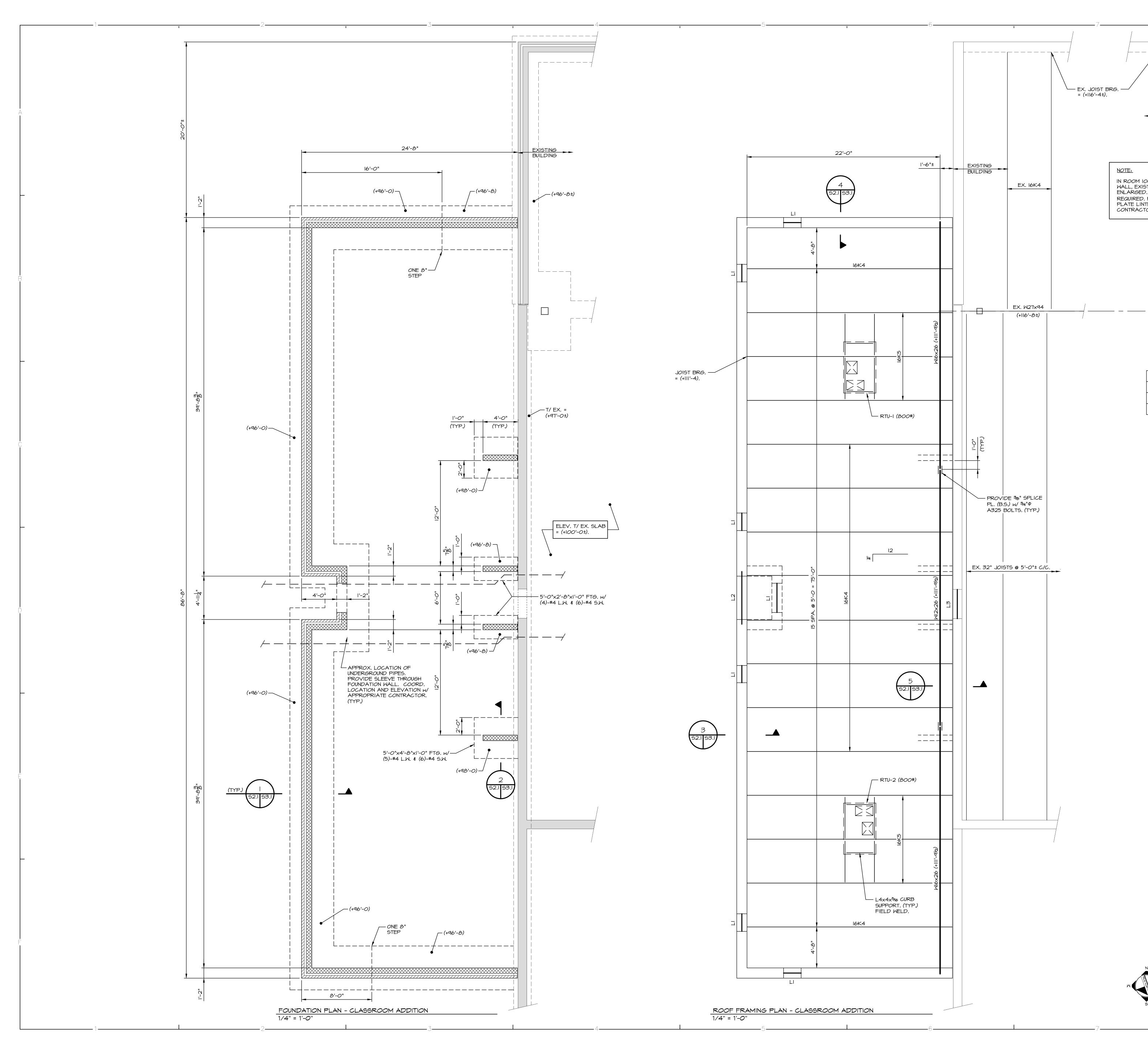
ITEM	SCOPE	FREQUENCY
MIXING OF MORTAR AND GROUT	INSPECT PROPORTIONING, MIXING, AND RETEMPERING OF MORTAR AND GROUT.	PERIODIC
INSTALLATION OF MASONRY	INSPECT SIZE, LAYOUT, BONDING, AND PLACEMENT OF MASONRY UNITS.	PERIODIC
MORTAR JOINTS	INSPECT CONSTRUCTION OF MORTAR JOINTS INCLUDING TOOLING AND FILLING OF HEAD JOINTS.	PERIODIC
GROUTING OPERATIONS	INSPECT PLACEMENT AND CONSOLIDATION OF GROUT. INSPECT MASONRY CLEAN-OUTS FOR HIGH-LIFT GROUTING.	CONTINUOUS
WEATHER PROTECTION	INSPECT COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES. VERIFY THAT WALL CAVITIES ARE PROTECTED AGAINST PRECIPITATION.	PERIODIC
EVALUATION OF MASONRY STRENGTH	TEST COMPRESSIVE STRENGTH OF MORTAR AND GROUT CUBE SAMPLES (ASTM C780). TEST COMPRESSIVE STRENGTH OF MASONRY PRISMS (ASTM C1314).	CONTINUOUS
REINFORCEMENT INSTALLATION	INSPECT PLACEMENT, POSITIONING, AND LAPPING OF REINFORCING STEEL.	PERIODIC
ANCHORS & TIES	INSPECT SIZE, LOCATION, SPACING AND EMBEDMENT OF DOWELS, ANCHORS, $\sharp$ TIES.	PERIODIC

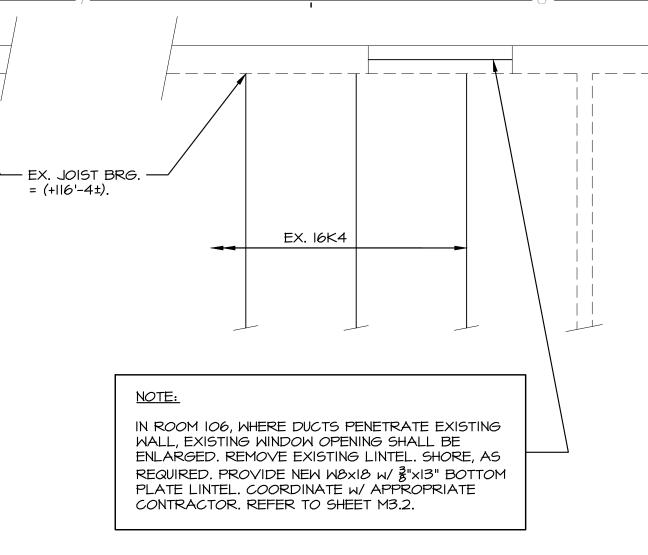
STRUCTURAL STEEL/JOIST INSPECTIONS

ITEM	SCOPE	FREQUENCY
MATERIAL CERTIFICATION	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH-STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.	PERIODIC
OPEN WEB STEEL JOISTS	INSPECT INSTALLATION, FIELD WELDING AND BRIDGING OF JOISTS.	PERIODIC
BOLTING	INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY PROPER TIGHTENING SEQUENCE. CONTINUOUS INSPECTION OF BOLTS IN SLIP-CRITICAL CONNECTIONS.	PERIODIC
WELDING	VISUALLY INSPECT ALL WELDS. INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES. VERIFY SIZE AND LENGTH OF FILLET WELDS. ULTRASONIC TESTING OF ALL FULL-PENETRATION WELDS.	PERIODIC
STRUCTURAL DETAILS	INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATION AND CONNECTION DETAILS.	PERIODIC
METAL DECK	INSPECT WELDING AND SIDE-LAP FASTENING OF METAL ROOF AND FLOOR DECK.	PERIODIC
LINTEL	INSPECT PLACEMENT AND POSITIONS OF LINTELS. VERIFY BEARING LENGTH AND LINTEL SIZE AND CONFIGURATIONS.	CONTINUOUS







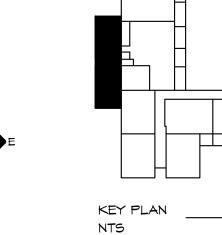


# LINTEL SCHEDULE

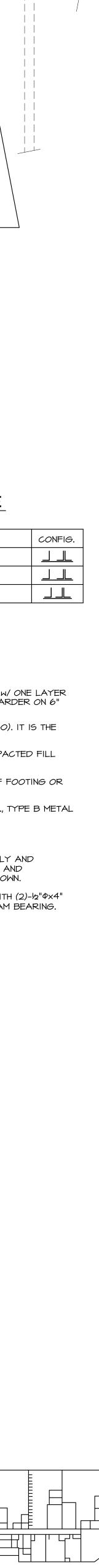
MARK	SIZE
LI	(3)-L312x312x14 w/ 14"x13" ₽.
L2	(З)-L5хЗ½х¾ (LLBB) и/ ¼"хIЗ" ₽.
L3	(З)-L3b2x3b2x14 и/ 14"x11" ₽.

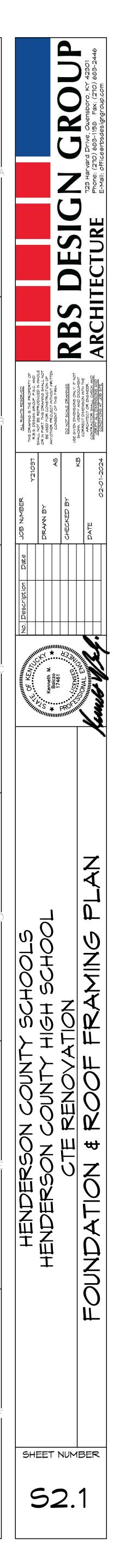
### NOTES:

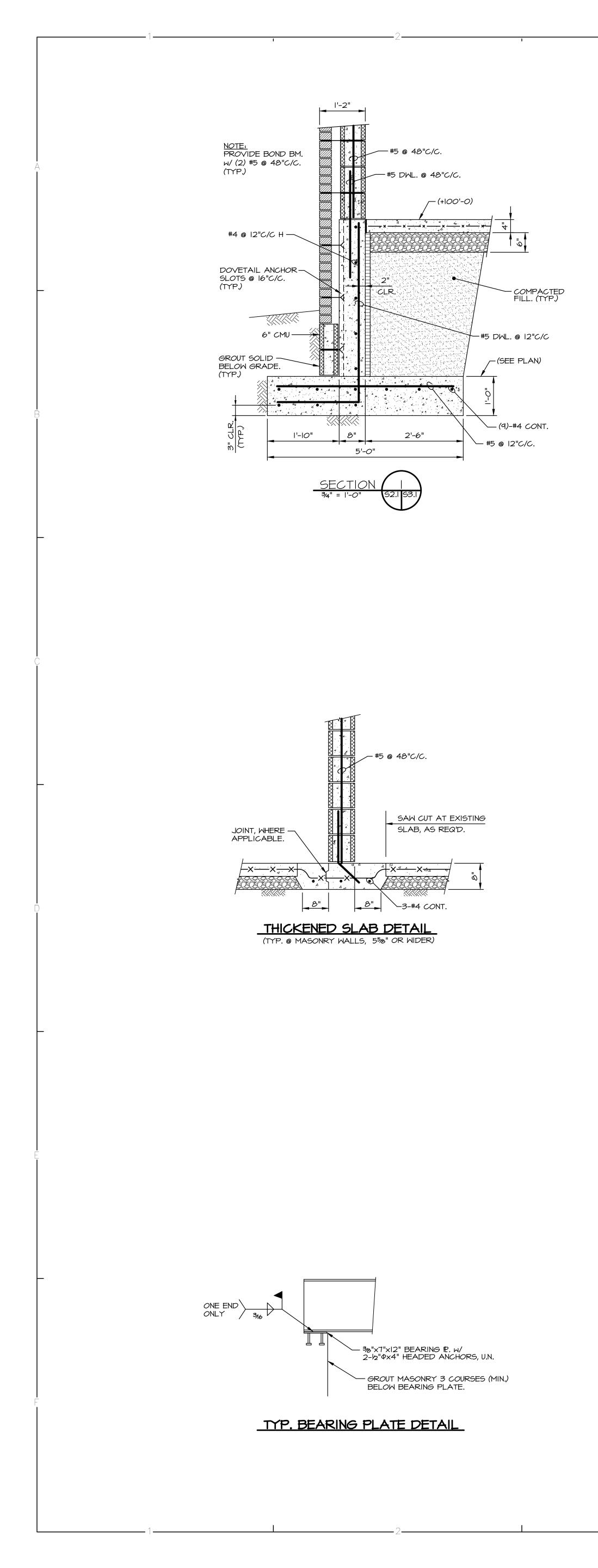
- I. FLOOR TO BE 4" CONCRETE SLAB W/ ONE LAYER OF 6x6-10/10 WWF ON VAPOR RETARDER ON 6" GRAVEL.
- 2. ELEVATION TOP OF SLAB = (+100'-0). IT IS THE INTENT TO MATCH EXISTING.
- REPLACE ANY EXISTING NON-COMPACTED FILL w/ COMPACTED GRANULAR FILL.
- 4. (+ ) INDICATES ELEVATION TOP OF FOOTING OR TOP OF STEEL.
- 5. ROOF SHALL BE 12"x22 GA., GALV., TYPE B METAL ROOF DECK.
- 6. JOISTS TO HAVE 21/2" DEEP HEELS.
- 7. JOIST MANUFACTURER SHALL SUPPLY AND ERECTOR SHALL INSTALL ALL TOP AND BOTTOM CHORD BRIDGING, NOT SHOWN.
- PROVIDE 36"x6"x12" BRG. PLATE WITH (2)-b"Φx4" HEADED ANCHORS @ 8"C/C AT BEAM BEARING.

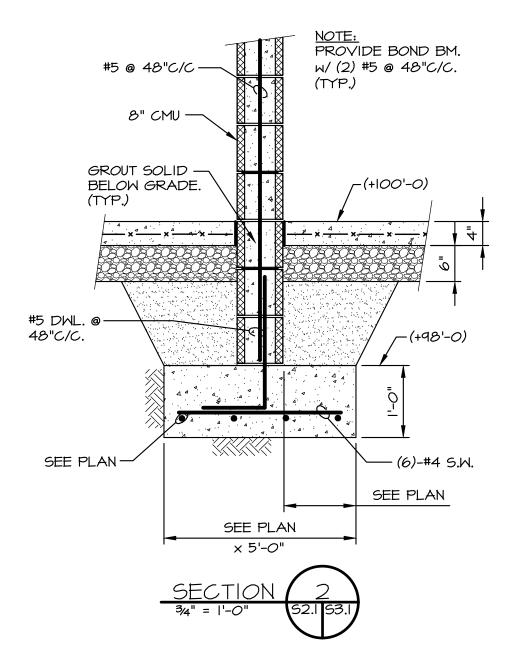


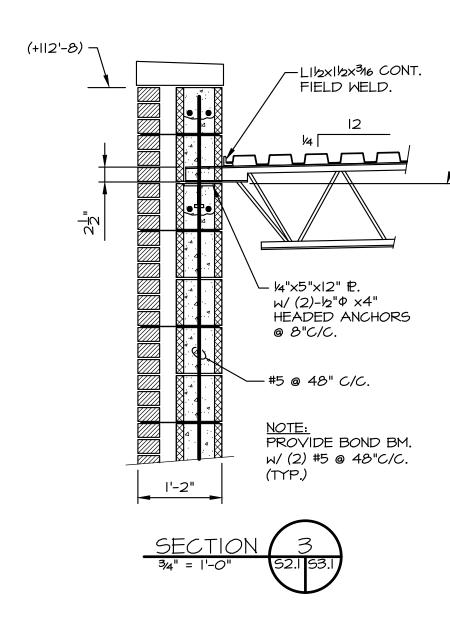




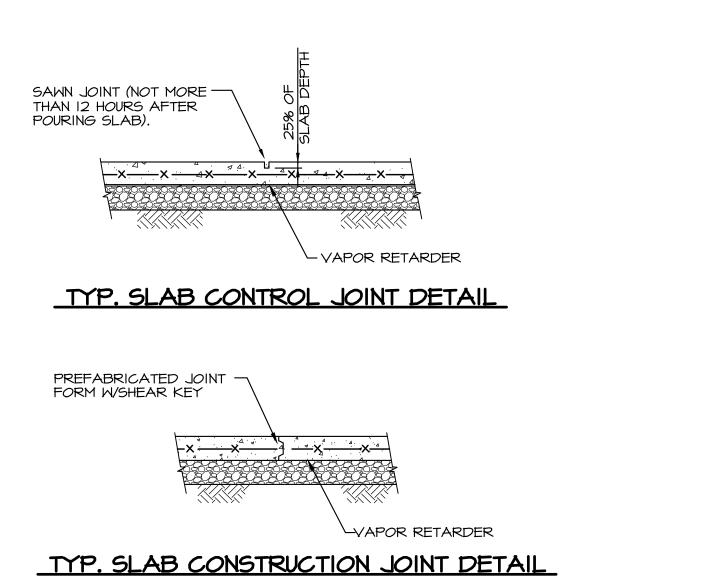


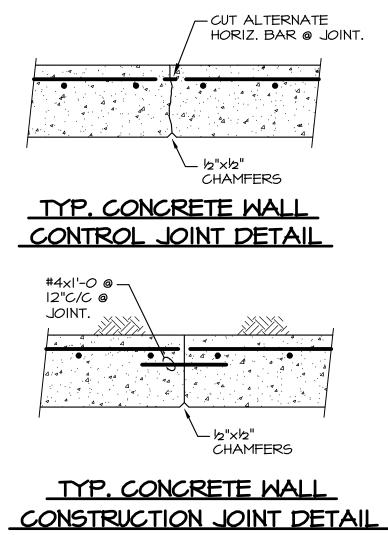


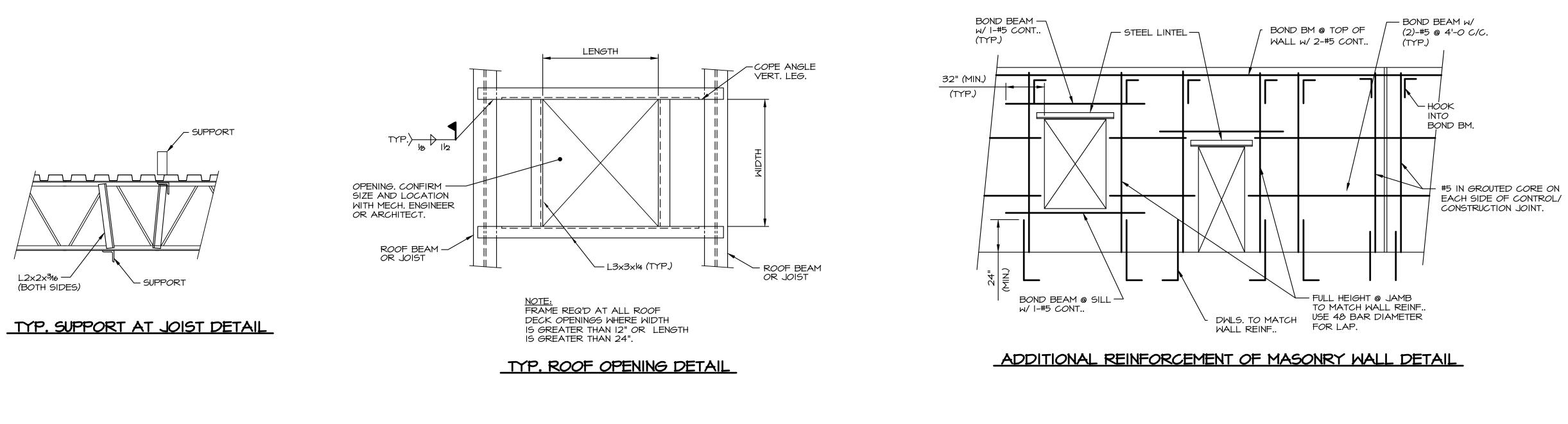


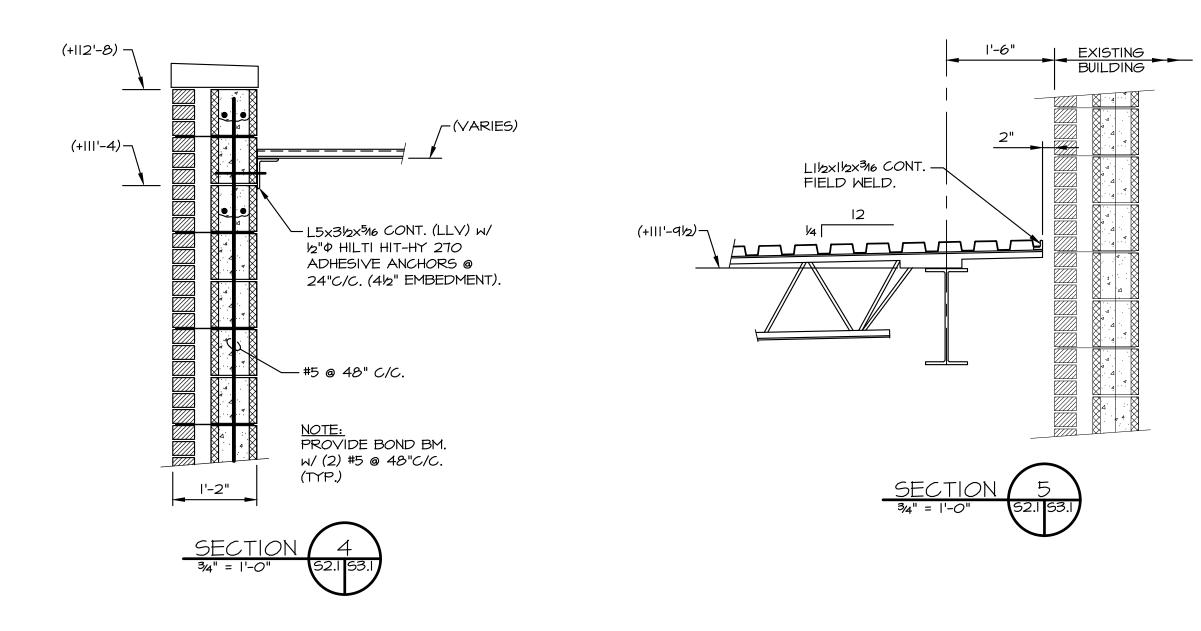


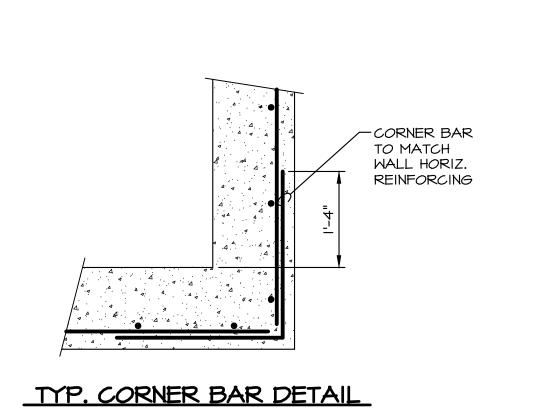
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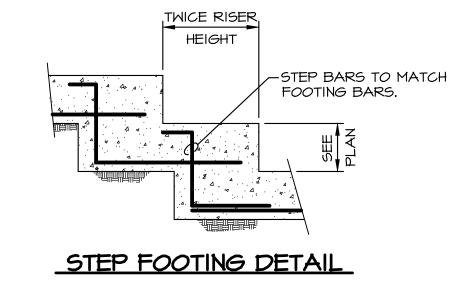


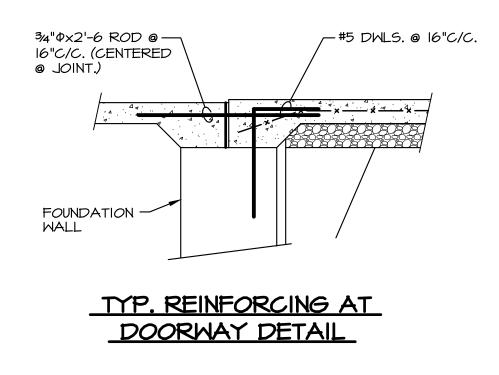


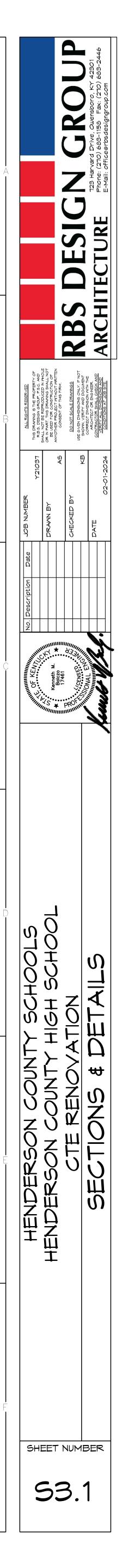




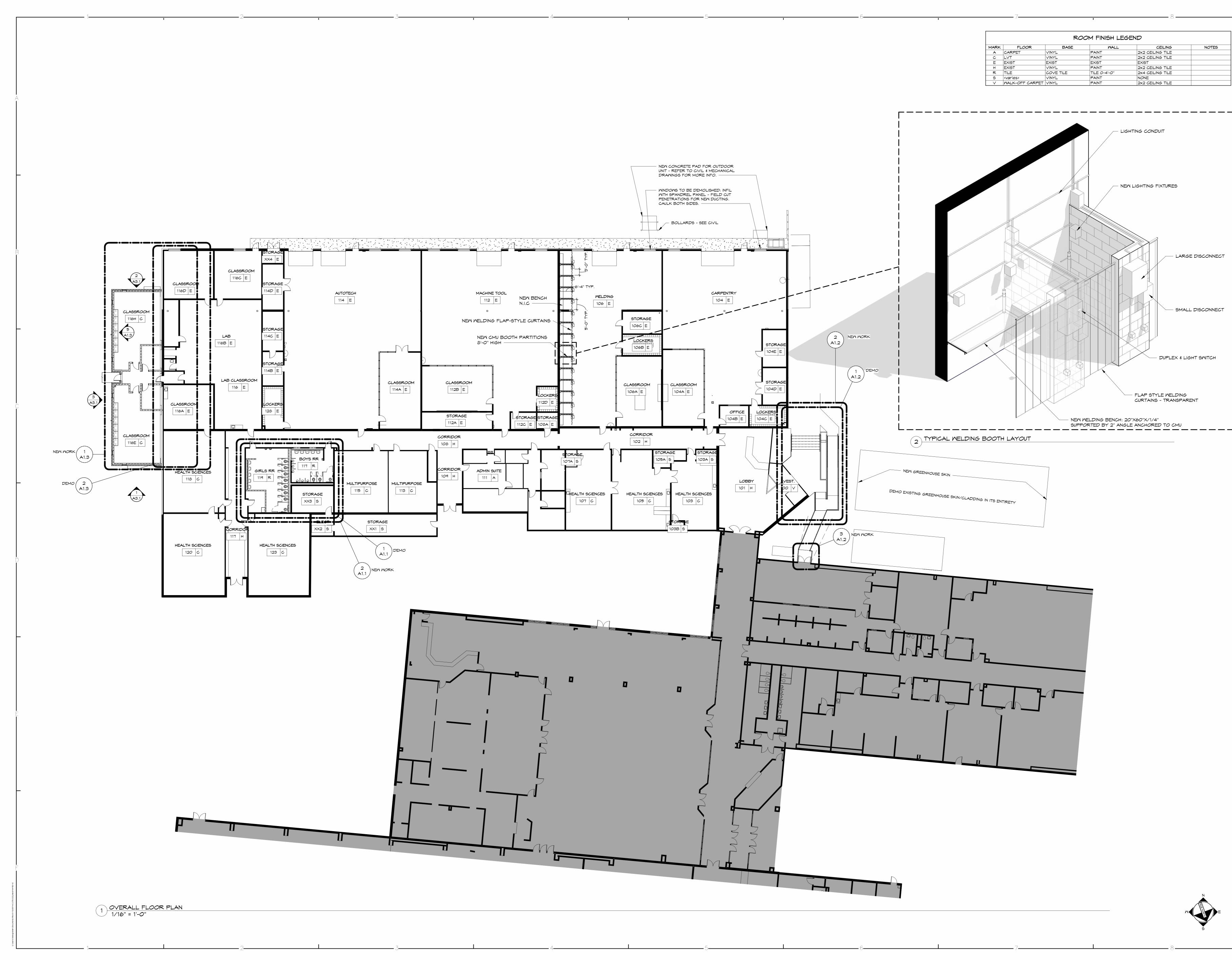


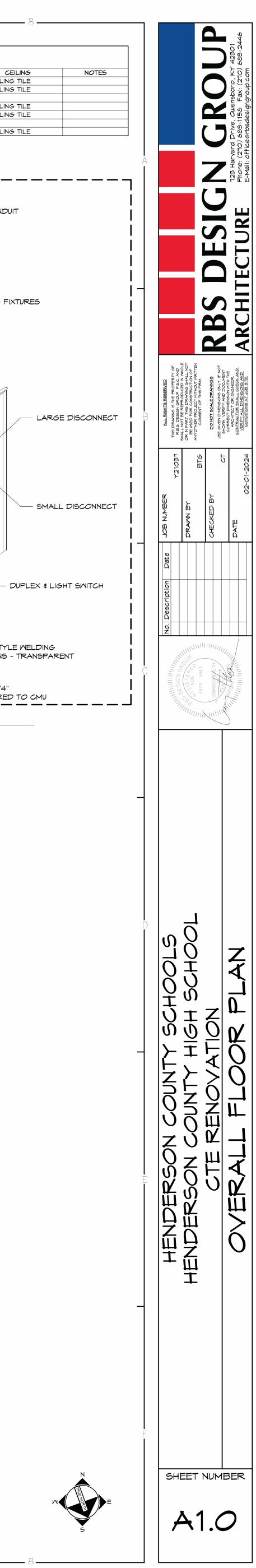


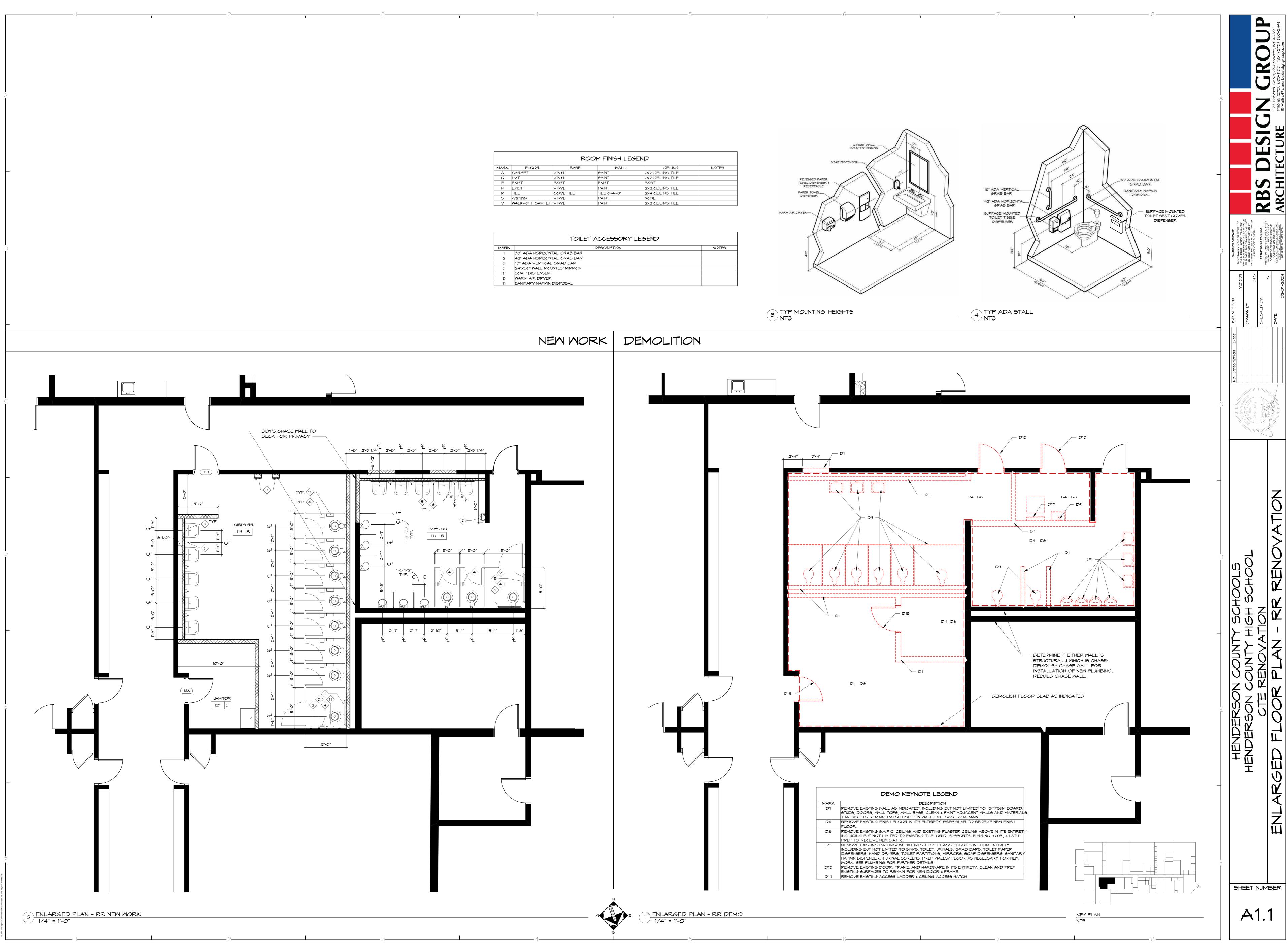






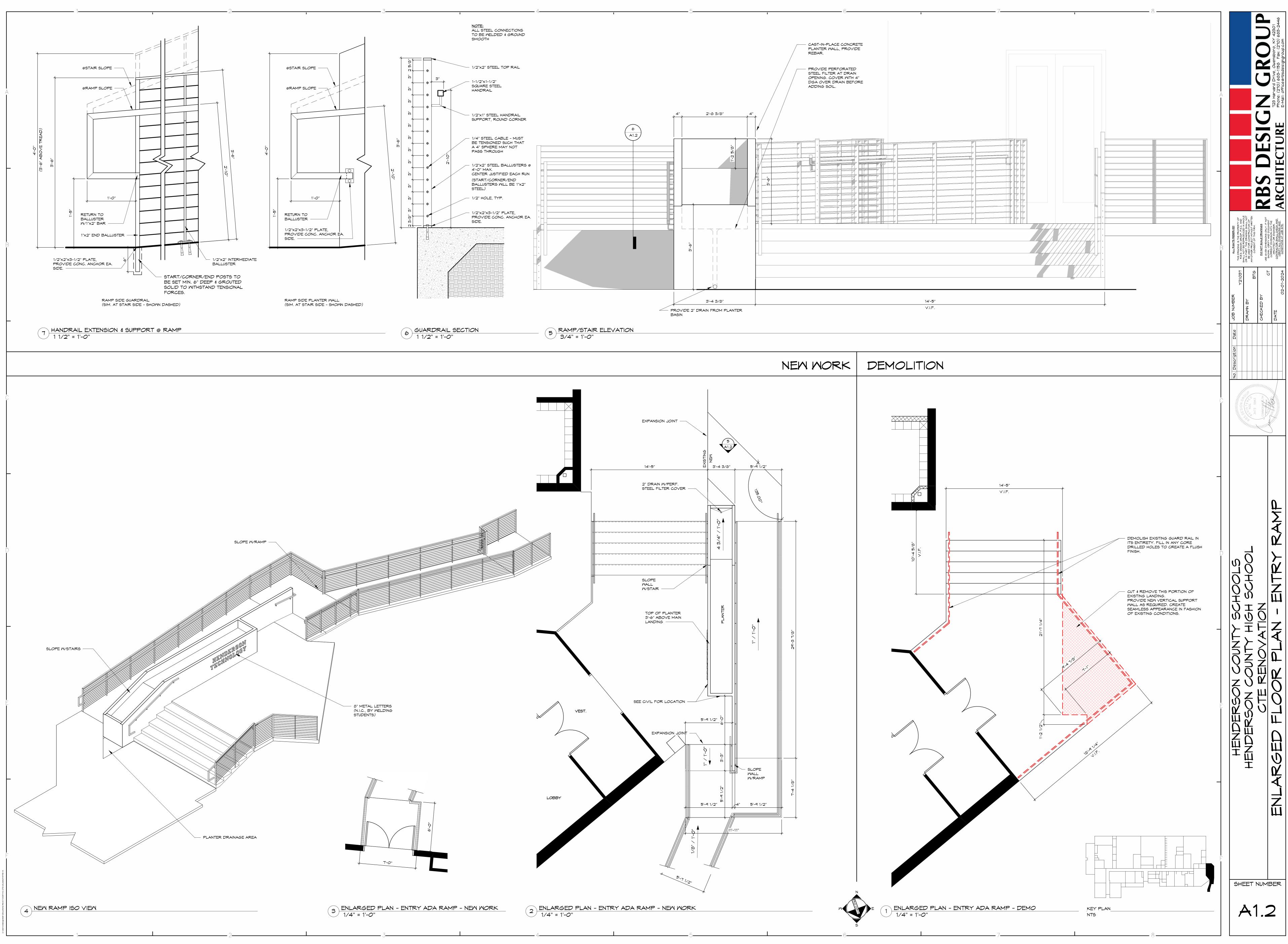


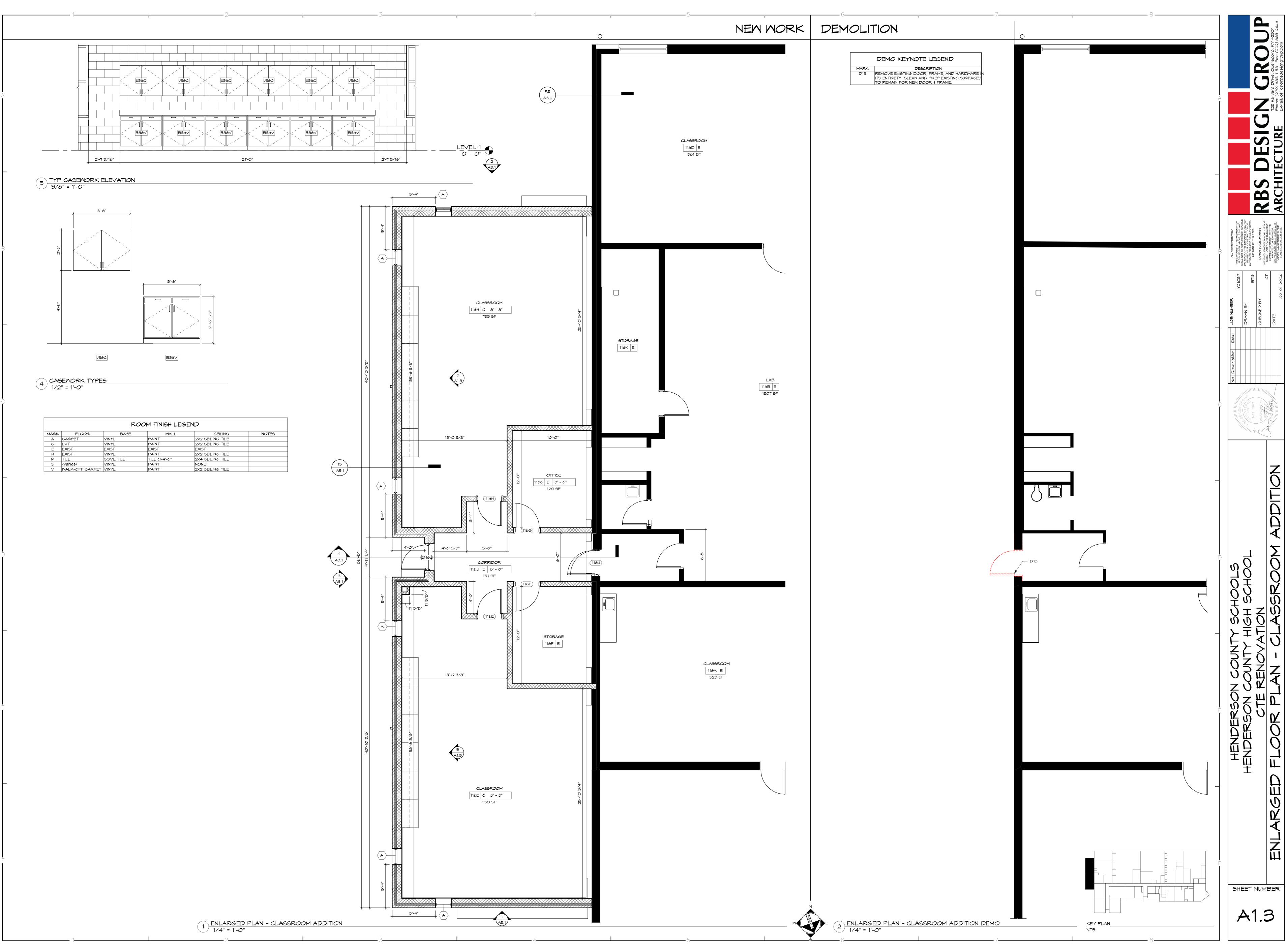


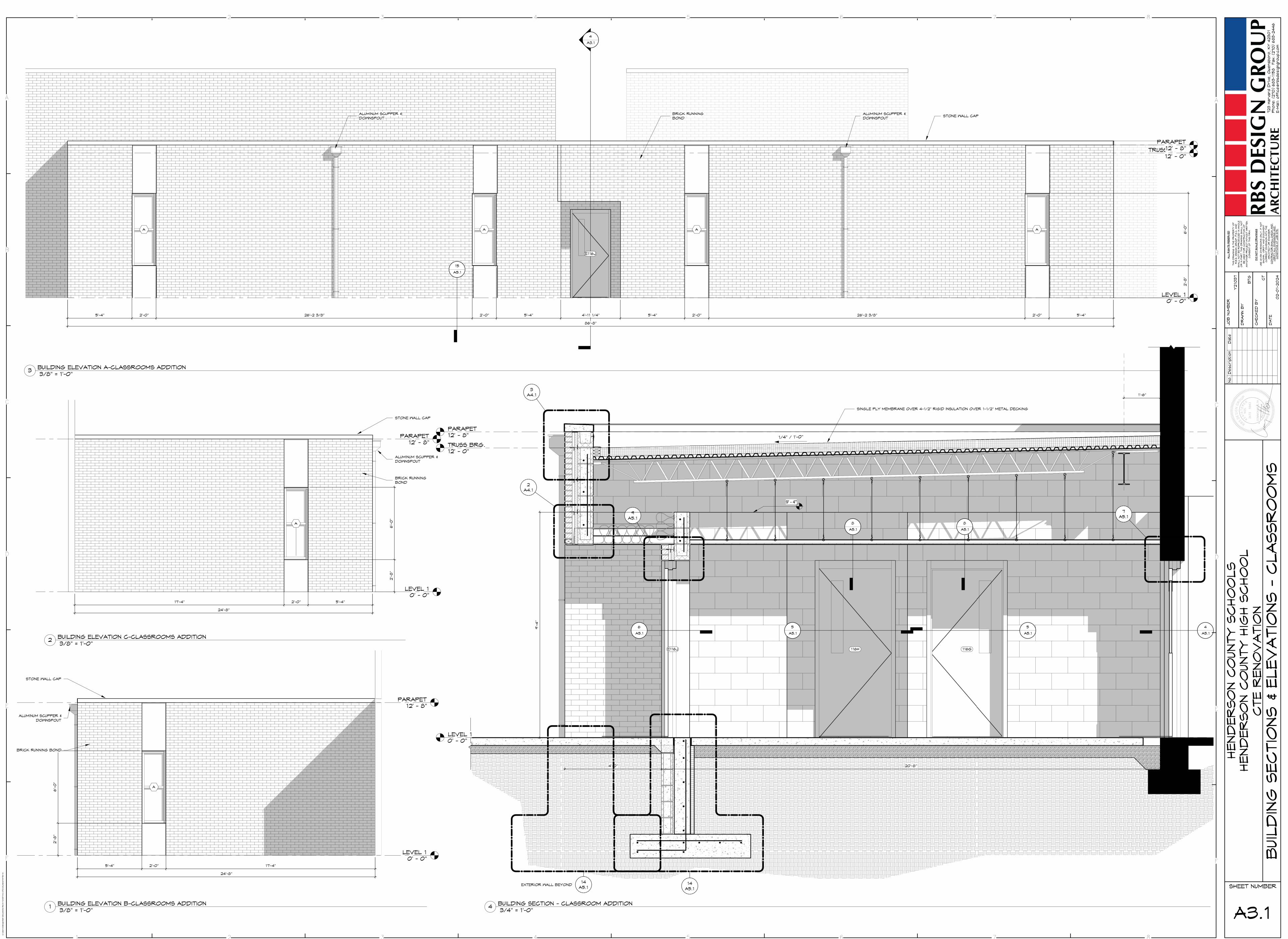


		RC	OM FINISH LEG	END	
MARK	FLOOR	BASE	WALL	CEILING	NOTES
A	CARPET	VINYL	PAINT	2x2 CEILING TILE	
C	LVT	VINYL	PAINT	2x2 CEILING TILE	
E	EXIST	EXIST	EXIST	EXIST	
н	EXIST	VINYL	PAINT	2x2 CEILING TILE	
R	TILE	COVE TILE	TILE 0-4'-0"	2x4 CEILING TILE	
5	<varies></varies>	VINYL	PAINT	NONE	
$\vee$	WALK-OFF CARPET	VINYL	PAINT	2x2 CEILING TILE	

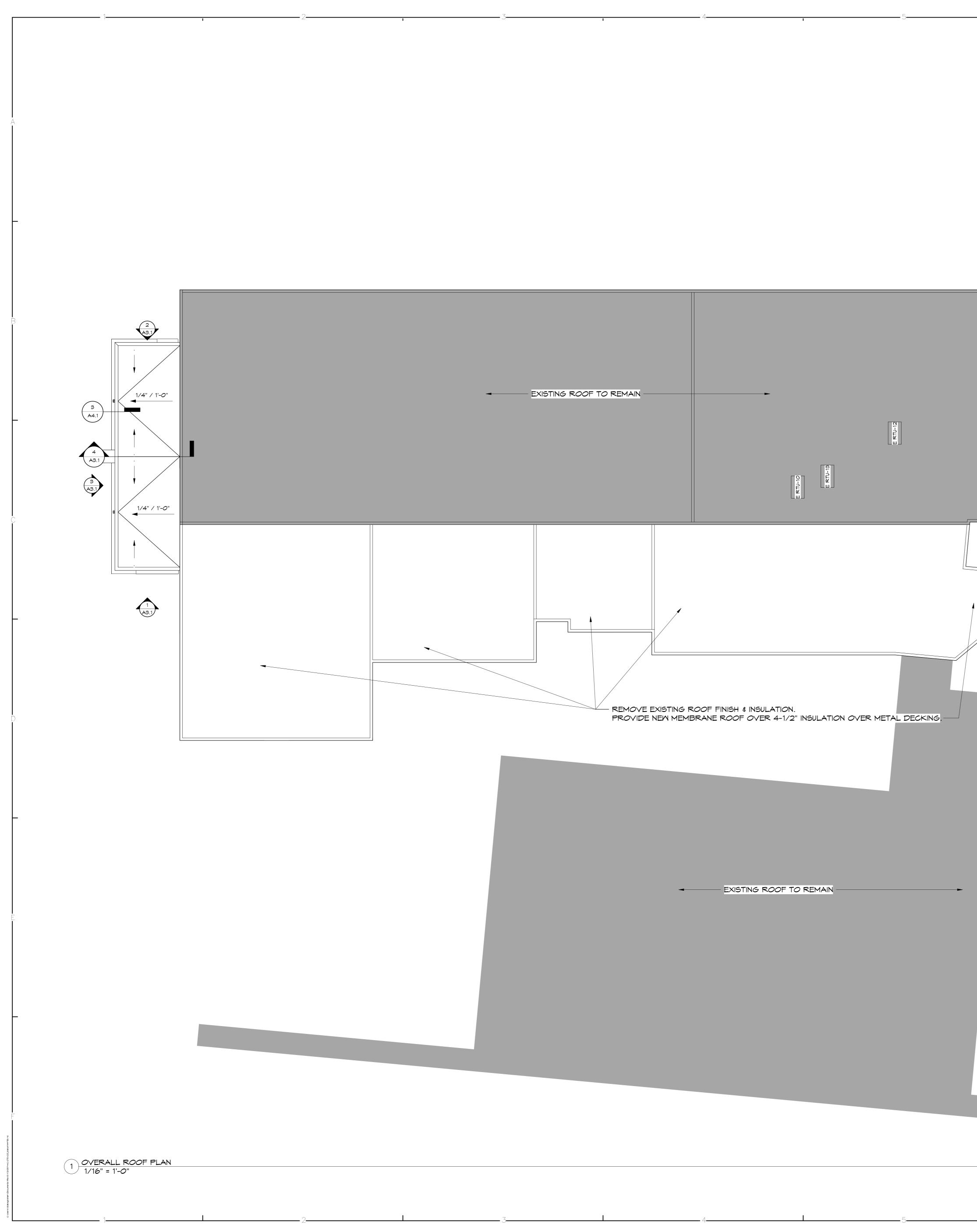
	TOILET ACCESSORY LEGEND	
MARK	DESCRIPTION	NOTES
1	36" ADA HORIZONTAL GRAB BAR	
2	42" ADA HORIZONTAL GRAB BAR	
з	18" ADA VERTICAL GRAB BAR	
5	24"X36" WALL MOUNTED MIRROR	
6	SOAP DISPENSER	
8	WARM AIR DRYER	
11	SANITARY NAPKIN DISPOSAL	

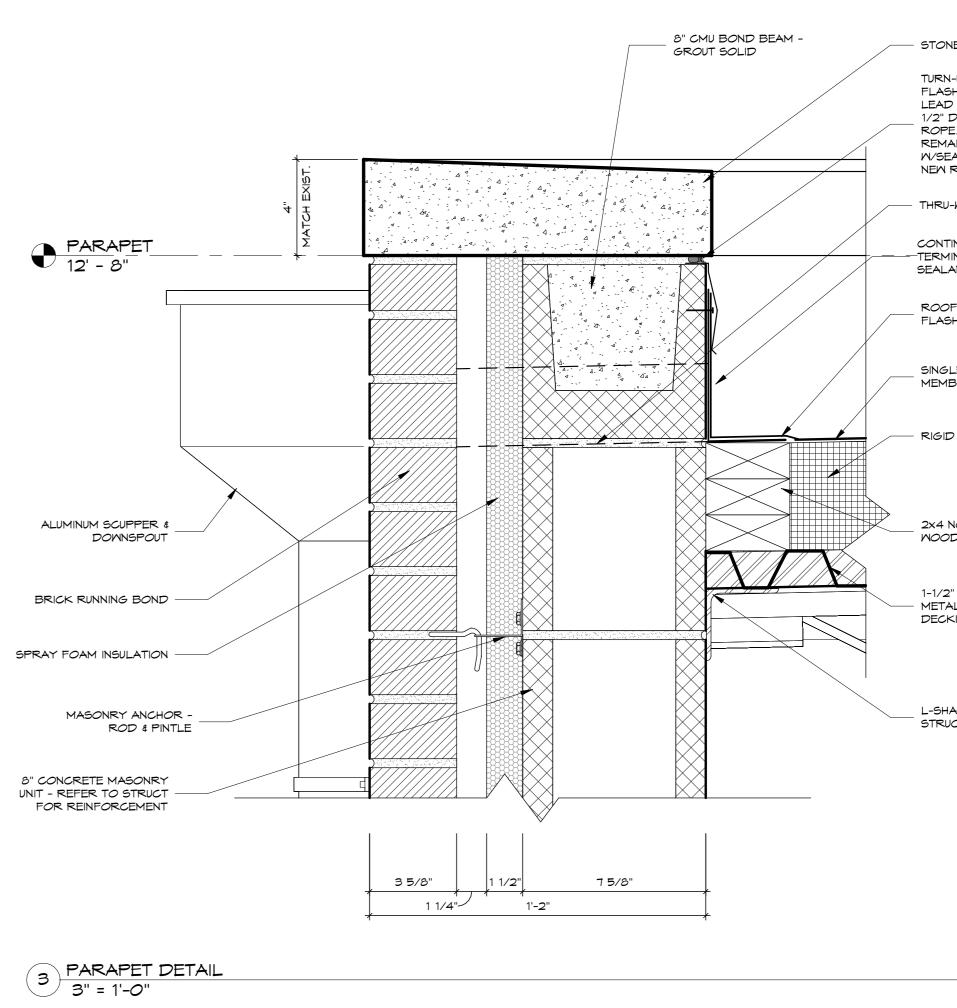


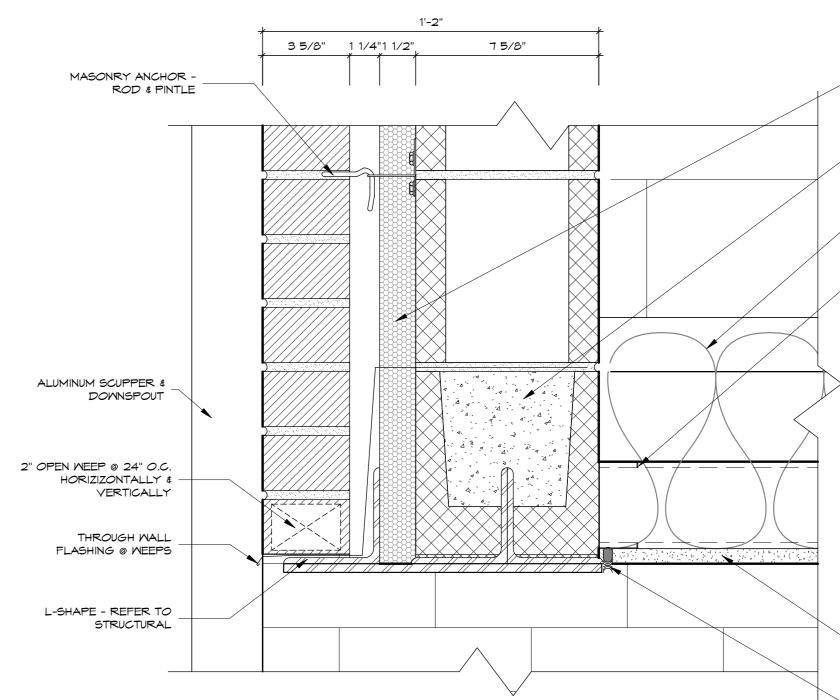




ALUMINUM SCUPPER & DOWNSPOUT			
26'-2 3/8"	2'-0"	5'-4"	<u>-</u>

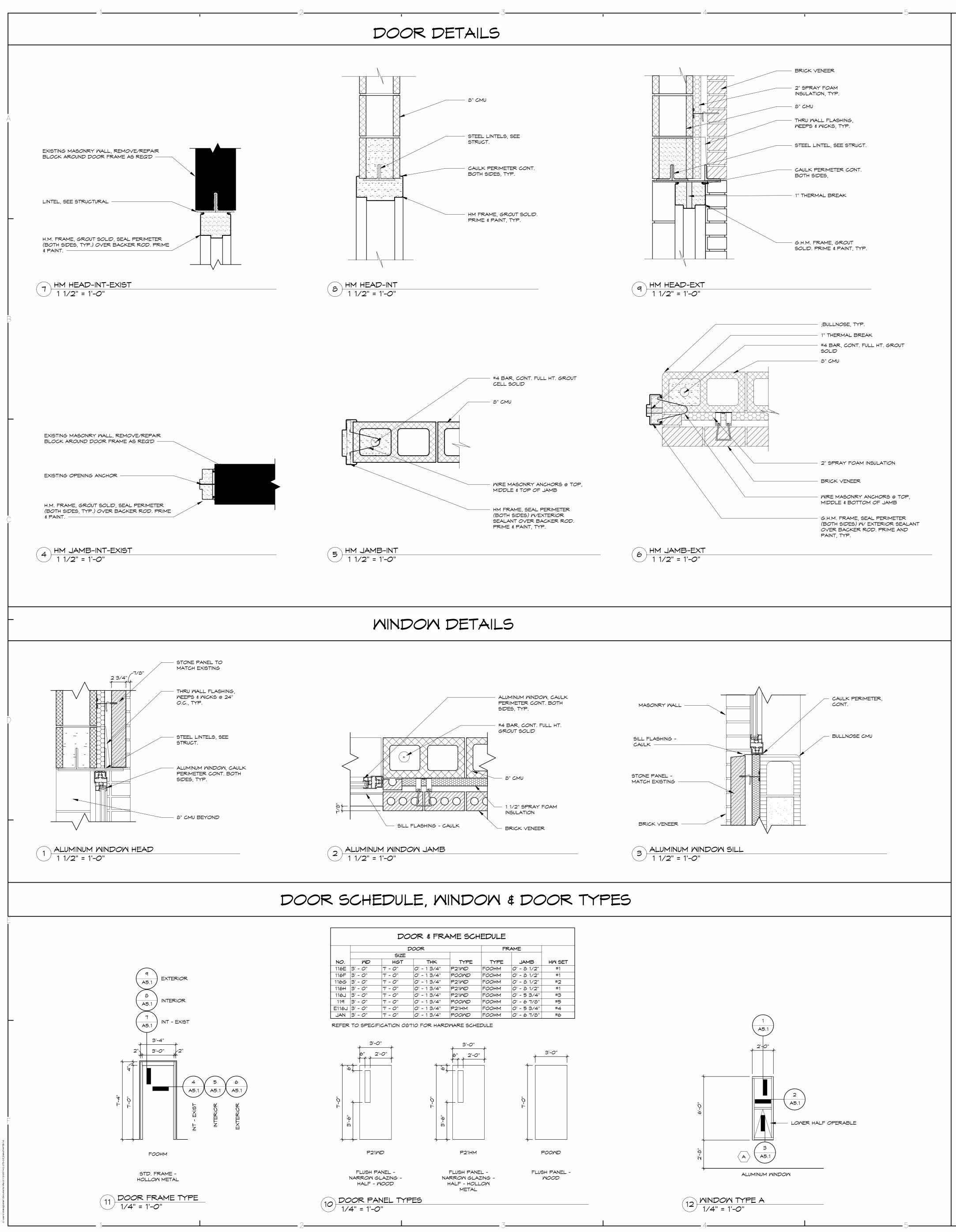


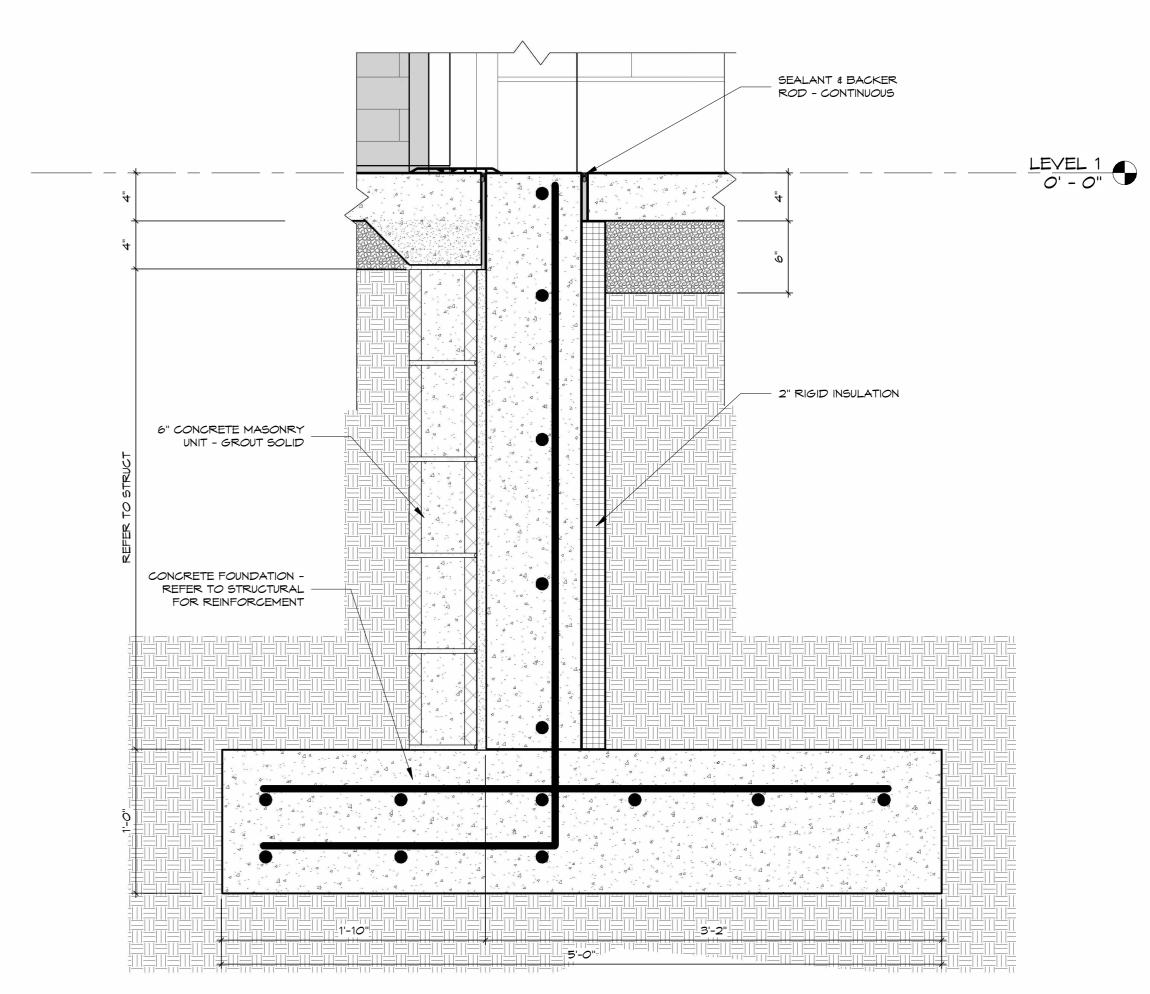


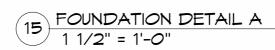


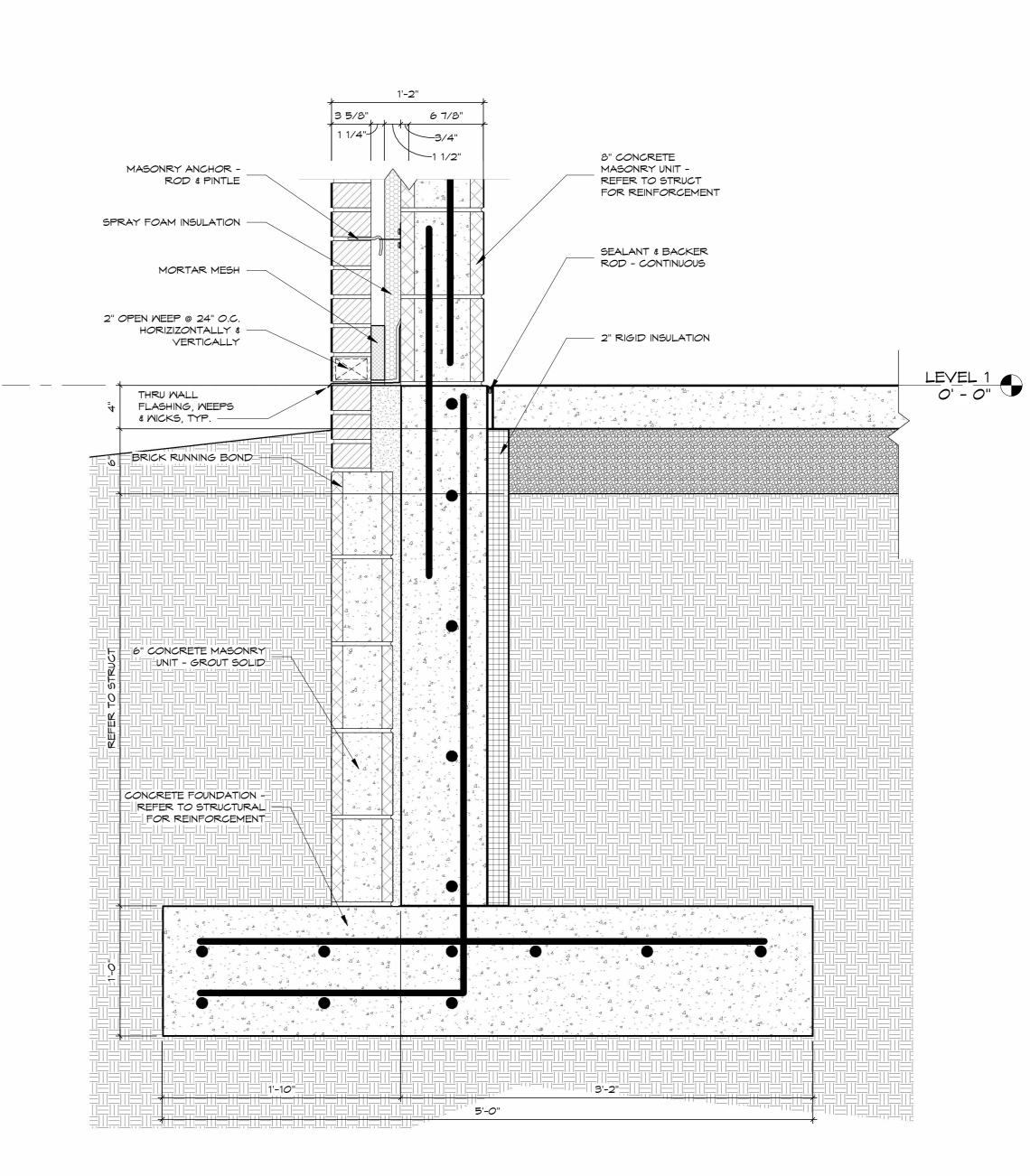
2 SOFFIT DETAIL 3" = 1'-0"

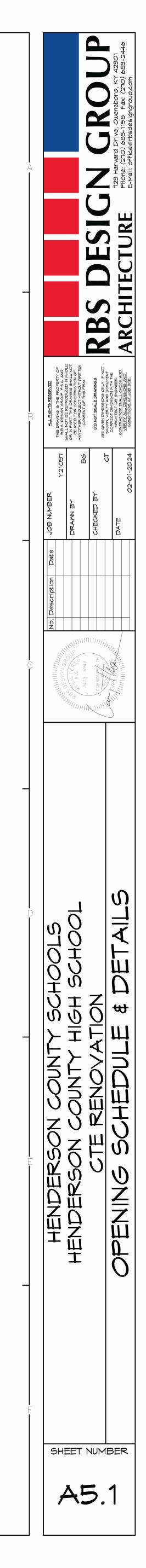
RBS DESIGN GROUP ARCHITECTURE Phone: (270) 683-1150 Fax: (270) 683-2446 E-Mail: Office@rbsdesigngroup.com		CHECKED BY CT DATE 02-01-2024	COMMONWEALTH	CTE RENOVATION OVERALL ROOF PLAN	NUMBER 4.1
	ALL RIGHTS RESERVED THIS DRAWING IS THE PROPERTY OF R.B.S. DESIGN GROUP, P.S.C. AND SHALL NOT BE REPRODUCED N WHOLE OR IN PART. THIS DRAWING SHALL NOT BE LIEDE FOR CONSTRUCTION OF ANOTHER PROLECT WITHOUT WATTEN CONSENT OF THIS FIRM.	Date JOB NUMBER Y21037 DRAWN BY BTG	A. Description	NDERSON COUNTY SCHOOLS DERSON COUNTY HIGH SCHOOL	
A	B	_			
LL DRAIN BEY <i>O</i> ND				N DND BEAM - DLID DWN-IN N	BUM BOARD
- 8 DNE WALL CAP EN-UP COUNTER ASHING, CONT. MEDGE, CON " DIA. POLY. PE. FILL ALL MAINING VOIDS SEALANT. INSTAL MEGLET. AU-WALL ROOF I MINATION BAR ANT OF MEMBRANE ASHING GLE PLY MER ANE	MBRANE ND INSULATION NOMINAL CUT OD FRAMING	/2" GALVANIZED TAL ROOF CKING HAPE - REFER <sup>-</sup> RUCTURAL		SPRAY FC INSULATIO 8" CMU BC GROUT SC R-38 BLC INSULATIO 3-5/8" ME	SHEATHING











<u>PL</u>	UMBING GENERAL NOTES:	ABBREVI	ATI
A.	COORDINATE THE LOCATION OF DRAINS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE	AC	A
В.	REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO	ADJ	A
	THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL	AFF	A
	FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN	AFR	A
C.	ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR	AFUE	A
	SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE	AHJ	A
D.	SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.	AMP	A
E. F.	COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS,	ANSI	A
	CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.	APD	A
G.	OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF	ASHRAE	A
Н.	KENTUCKY, ETC.) CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN	AVG	
I.	THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN	BAS	В
	APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.	BHP	B
	ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.	BTU	B
K. L.	ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS	CAP	
	APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.	CD	_
М.	LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.		C
N. O.	ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY. INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION	CFM	C
	INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE	C.I.	C
Ρ.	CLEARANCES FOR ALL EQUIPMENT. SEAL AIRTIGHT AROUND ALL PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.	CLG	C
Q.	THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.	CLR	С
R.	WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND	CO	С
S.	EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM	COND	С
	SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE	CONT	С
т.	ENGINEER. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN	CU FT	С
	SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY	CU IN	С
U.	OF THE PURCHASER. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE	CV	V
	LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH	dB	D
	ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.	DB	D
V.	ALL CLEANOUTS SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.	DC	D
W.	UNDER NO CIRCUMSTANCES SHOULD NEW WORK BE INSTALLED BELOW A FOOTER OR WITHIN THE ZONE OF INFLUENCE OF A FOOTER WITHOUT EXPRESS WRITTEN PERMISSION BY THE STRUCTURAL ENGINEER. IF SUCH	DD	D
v	CONDITION IS UNAVOIDABLE, COORDINATE WITH STRUCTURAL ENGINEER AND INSTALL AND BACKFILL PER STRUCTURAL DETAILS AND REQUIREMENTS.	DDC	D
Х.	WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.	DEG	D
		DIA	D
		DN	D
		DWG	D
		EC	E
<u>PL</u> I	UMBING PHASING NOTES:	ELEV	E
	THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S	ENCR	+

Α.	THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S
	RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR
	ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES,
	STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR
	SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL
	PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S
	RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES,
	TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE
	OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

### PLUMBING HAZARDOUS NOTES:

- A. THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPLTY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY
- RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING, OR DISPOSAL OF SUCH MATERIAL. C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

SREV14	ATIONS	ABBREVI	ATIONS (CONTINUED)	ABBREVI	ATIONS (CONTINUED)
AC	ALTERNATING CURRENT	FL	FLOOR	NO	NORMALLY OPEN <b>OR</b> NUMBER
ADJ	ADJUSTABLE	FLA	FULL LOAD AMPS	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	FOB	FLAT ON BOTTOM	OC	ON CENTER
AFR	ABOVE FINISHED ROOF	FOT	FLAT ON TOP	OD	OUTSIDE DI (-AMETER, -MENSION)
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	FPC	FIRE PROTECTION CONTRACTOR	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
AHJ	AUTHORITY HAVING JURISDICTION	FPM	FEET PER MINUTE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AMP	AMPERE (AMP, AMPS)	FPS	FEET PER SECOND	OFOI	OWNER FURNISHED, OWNER INSTALLED
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	FT	FEET OR FOOT	OR	OPEN RECEPTACLE
APD	AIR PRESSURE DROP	FUT	FUTURE	OZ	OUNCE (-S)
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS	FV	FACE VELOCITY	PC	PLUMBING CONTRACTOR
AVG	AVERAGE	GA	GAGE/GAUGE	PD	PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM	GAL	GALLON (-S)	PH	PHASE [ELECTRICAL]
BHP	BREAK HORSEPOWER	GC	GENERAL CONTRACTOR	PLBG	PLUMBING
BTU	BRITISH THERMAL UNIT	GPD	GALLONS PER DAY	PPM	PARTS PER MILLION
САР	CAPACITY	GPH	GALLONS PER HOUR	PRS	PRESSURE REDUCING STATION
CD	CONDENSATE DRAIN	GPM	GALLONS PER MINUTE	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
CFM	CUBIC FEET PER MINUTE	GR	GRAINS	PSF	POUNDS PER SQUARE FOOT
C.I.	CAST IRON	Н	HUMIDITY	PSI	POUNDS PER SQUARE INCH
CLG	CEILING	HD	HEAD	PSIG	PPSI GAUGE
CLR	CLEAR	HG	MERCURY	RLA	RUNNING LOAD AMPS
CO	CLEAN OUT	HORIZ	HORIZONTAL	RPM	REVOLUTIONS PER MINUTE
COND	CONDENS (-ER, -ING, -ATION, -ATE)	HP	H (-ORSEPOWER, -EAT PUMP)	SQ	SQUARE
CONT	CONTINU (-ED, -OUS)	HR	HOUR (-S)	SQ FT	SQUARE FEET <b>OR</b> FOOT
CU FT	CUBIC FEET	HVAC	HEATING, VENTILATING, & AIR-CONDITIONING	SQ IN	SQUARE INCH OR INCHES
CU IN	CUBIC INCHES	Hz	HERTZ	ТАВ	TESTING AND BALANCING
CV	VALVE FLOW COEFFICIENT	ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)	TBD	TO BE DETERMINED
dB	DECIBEL	IN	INCH (-ES)	TE	TOP ELEVATION
DB	DRY BULB	INSUL	INSULAT (-ED, -ION)	TEMP	TEMPERATURE
DC	DIRECT CURRENT	INT	INTER (-IOR, -ERVAL)	ТРА	TRAP PRIMER ADAPTER
DD	DUCT SMOKE DETECTOR	IPS	IRON PIPE SIZE	TSP	TOTAL STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROLS	kW	KILOWATT	TYP	TYPICAL
DEG	DEGREE (-S)	kWh	KILOWATT HOUR	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER (-S)	LBS	POUNDS	V	VOLT (-AGE, -S)
DN	DOWN	LF	LINEAR FEET/FOOT	VAR	VARI (-ABLE, -IES)
DWG	DRAWING	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME
EC	ELECTRICAL CONTRACTOR	LWT	LEAVING WATER TEMPERATURE	VEL	VELOCITY
ELEV	ELEVA (-TION, -TOR)	MAX	MAXIMUM	VFD	VARIABLE FEQUENCY DRIVE
ENGR	ENGINEER	MBH	BTU PER HOUR [THOUSANDS]	W	WATT (-AGE, -S)
EQ	EQUAL	MCA	MINIMUM CIRCUIT AMPS	 WB	WET BULB
ESP	EXTERNAL STATIC PRESSURE	MFG	MANUFACTURER	WB	WET BULB TEMPERATURE
ETR	EXISTING TO REMAIN	MIN	MIN (-IMUM, -UTE)	WPD	WATER PRESSURE DROP
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)	MISC	MISCELLANEOUS	WFD WT	WEIGHT
EWT	ENTERING WATER TEMPERATURE	MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]	W/	WITHOUT
EXP	EXPANSION	MTG	MOUNTING	W/O	WITHOUT
EXT	EXTERIOR	N/A	NOT APPLICABLE	%	PERCENT
FA	FREE AREA	NC	NOISE CRITERIA <b>OR</b> NORMALLY CLOSED	ΔΡ	DIFFERENTIAL PRESSURE
		NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU	ΔΤ	TEMPERATURE DIFFERENCE

### PI UMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CW	HW	VENT	WASTE/DRAIN
FD-1	FLOOR DRAIN - 6" DIA. : ZURN, Z415B OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 4" DRAIN OUTLET AND TRAP PRIMER CONNECTION.	-	-	2"	4"
FPWH-1	FREEZE-PROOF WALL HYDRANT : ZURN 1300 OR EQUIVALENT, 3/4", ENCASED, FLUSH, NON-FREEZE WALL HYDRANT WITH KEY LOCK AND COMBINATION BACKFLOW PREVENTER/VACUUM BREAKER. MOUNT HYDRANT AT A MINIMUM OF 20" ABOVE FINISHED GRADE. REFER TO MECHANICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.	3/4"	-	-	-
HB-1	HOSE BIBB : ZURN MODEL Z1350 OR EQUAL ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL INSTALLATION. WITH ALL BRONZE BODY, ALL BRONZE INTERIOR PARTS, REPLACEABLE SEAT WASHER, LOOSE KEY OPERATED CONTROL VALVE, VACUUM BREAKER AND 3/4" MALE HOSE CONNECTION. ADJUSTABLE STAINLESS STEEL BOX FURNISHED WITH HINGED COVER CYLINDER LOCK AND "WATER" STAMPED ON THE COVER. MOUNTED WITH HOSE CONNECTION AT 18" ABOVE FINISHED FLOOR ELEVATION OF AREA SERVED.	1/2"	-	-	-
P-1	WATER CLOSET - FLOOR MOUNTED - MANUAL FLUSH VALVE: SLOAN MODEL NO. ST-2029, VITREOUS CHINA, 18" HIGH ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE SLOAN MODEL NO.111, MANUAL 1.6 GPF FLUSH VALVE WITH HANDLE AT A MAXIMUM OF 31" AFF.	1-1/2"	-	2"	4"
P-1A	WATER CLOSET - FLOOR MOUNTED - MANUAL FLUSH VALVE - ADA COMPLIANT : SLOAN MODEL NO. ST-2029, VITREOUS CHINA, 18" HIGH ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE SLOAN MODEL NO. 111, MANUAL 1.6 GPF FLUSH VALVE WITH HANDLE AT A MAXIMUM OF 31" AFF.	1-1/2"	-	2"	4"
P-2	URINAL - ADA COMPLIANT : SLOAN MODEL NO. SU-1009-A, VITREOUS CHINA SIPHON JET URINAL WITH 3/4' TOP SPUD INLET, 2" I.P.S. OUTLET AND SLOAN MODEL NO. 111, 1.0 GPF MANUAL FLUSH VALVE. MOUNT WITH LIP OF URINAL AT 17" ABOVE FINISHED FLOOR. CONTROLS SHALL BE A MAXIMUM OF 39" ABOVE FINISHED FLOOR. PROVIDE FLOOR MOUNTED WALL CARRIER.	3/4"	-	2"	2"
P-3	LAVATORY - WALL HUNG W/ SINGLE LEVER FAUCET - ADA COMPLIANT : SLOAN MODEL NO. SS-3017, VITREOUS CHINA, 20"X18" WALL HUNG LAVATORY WITH 4" FAUCET CENTERS, CONCEALED ARMS AND 4" HIGH BACKSPLASH. PROVIDE WITH A ZURN MODEL NO. Z81103-XL, 0.5 GPM DUAL LEVER FAUCET, CHROME PLATED 3/8" SUPPLIES WITH STOPS, GRID DRAIN, A KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE APRON AND THE RIM AT A MAXIMUM OF 34" AFF. PROVIDE ON THE EXPOSED WASTE PIPE AND WATER SUPPLY LINES A TRAP-WRAP INSULATION KIT WITH A VINYL AND PLASTIC COVERING.	1/2"	1/2"	2"	2"
P-4	MOP BASIN : ZURN MODEL NO. Z1996-27, 24"X24"X10" HIGH MOLDED STONE MOP SERVICE BASIN, IN WHITE DRIFT COLOR, 3" DRAIN, SERVICE FAUCET, HOSE AND HOSE BRACKET, VINYL BUMPERGUARD AND STAINLESS STEEL WALL GUARDS. THE DRAIN SHALL BE LOCATED 12" TO THE CENTER. PROVIDE A CHECK VALVE IN THE HOT AND COLD WATER SUPPLIES.	3/4"	3/4"	2"	3"
TP-1	TRAP PRIMER TYPE-1 : PRECISIONS PLUMBING PRODUCTS PRIME-TIME OR EQUAL ELECTRONIC TRAP PRIMING MANIFOLD, WITH ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR CLOCK, MANUAL OVERRIDE SWITCH, 120 VOLT SOLENOID VALVE WITH 120V/3WIRE CONNECTION. PROVIDE IN 12" X 12" X 4" SURFACE MOUNTED METAL CABINET. PROVIDE WITH 10 OPENING MANIFOLD, UN-USED MANIFOLD OPENING SHALL BE CAPPED. INSTALL UNITED AS REQUIRED BY MANUFACTURER.	3/4"	-	-	-

YSTEM
S SYSTEM

PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)

AUTO-FLOW CONTROL VALVE

\_\_\_\_\_

**GENERAL SYMBOLS** 

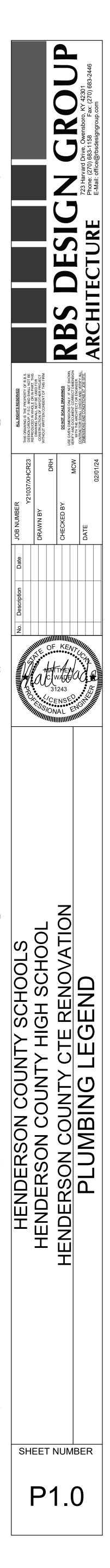
PLUMBING	PIPING LEGEND
—0	PIPE ELBOW TURNING UP
Ə	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
— – — – – – – – – – – – – – – – – – – –	DOMESTIC COLD WATER (DCW)
DHW DHW(#°F)	DOMESTIC HOT WATER (DHW)
	RECIRCULATED DOMESTIC HOT WATER (DHR)
G	NATURAL GAS
RL	ROOF LEADER
SAN	SANITARY
— —VT— —	VENT

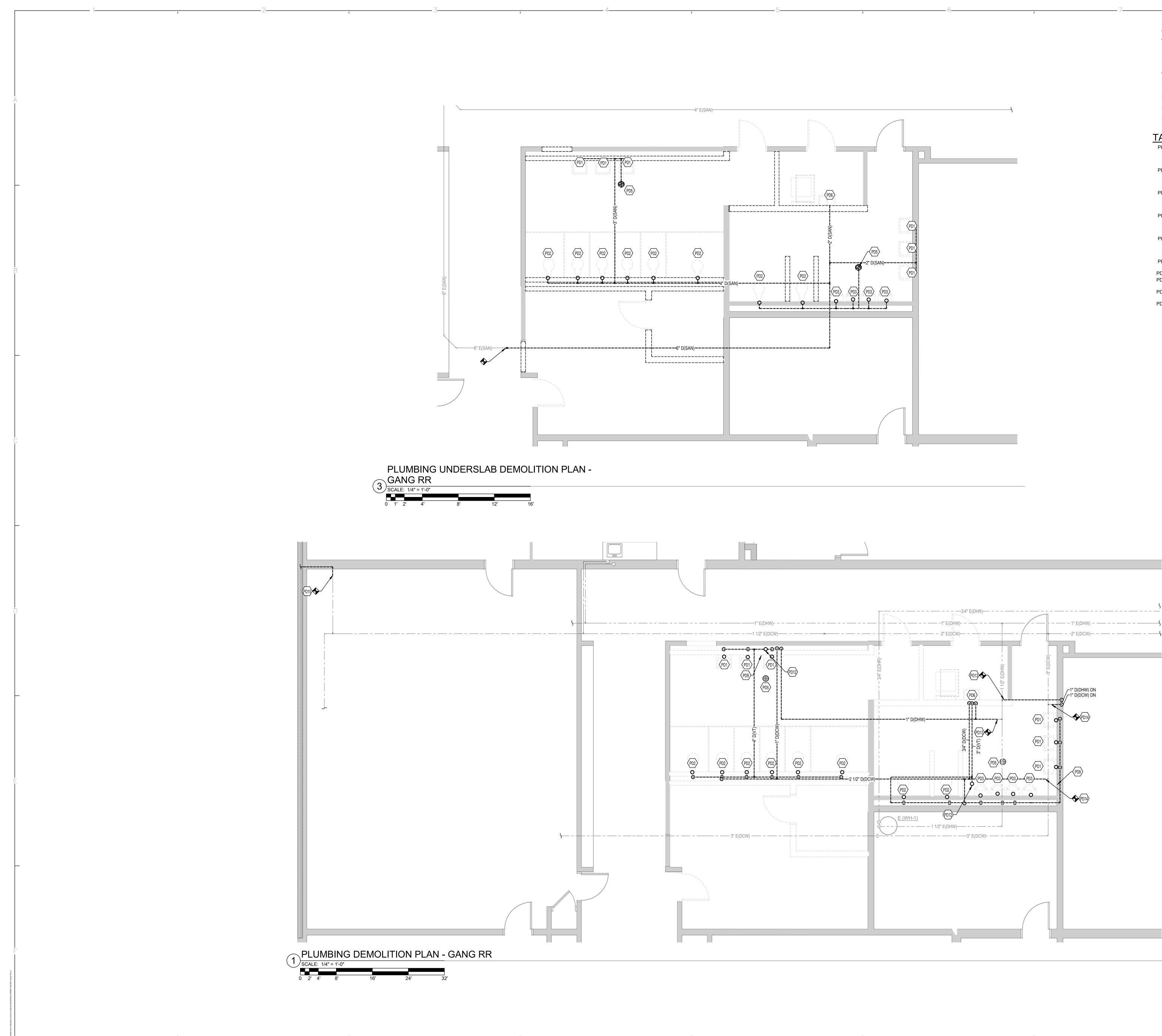
### PLUMBING SYMBOL LEGEND

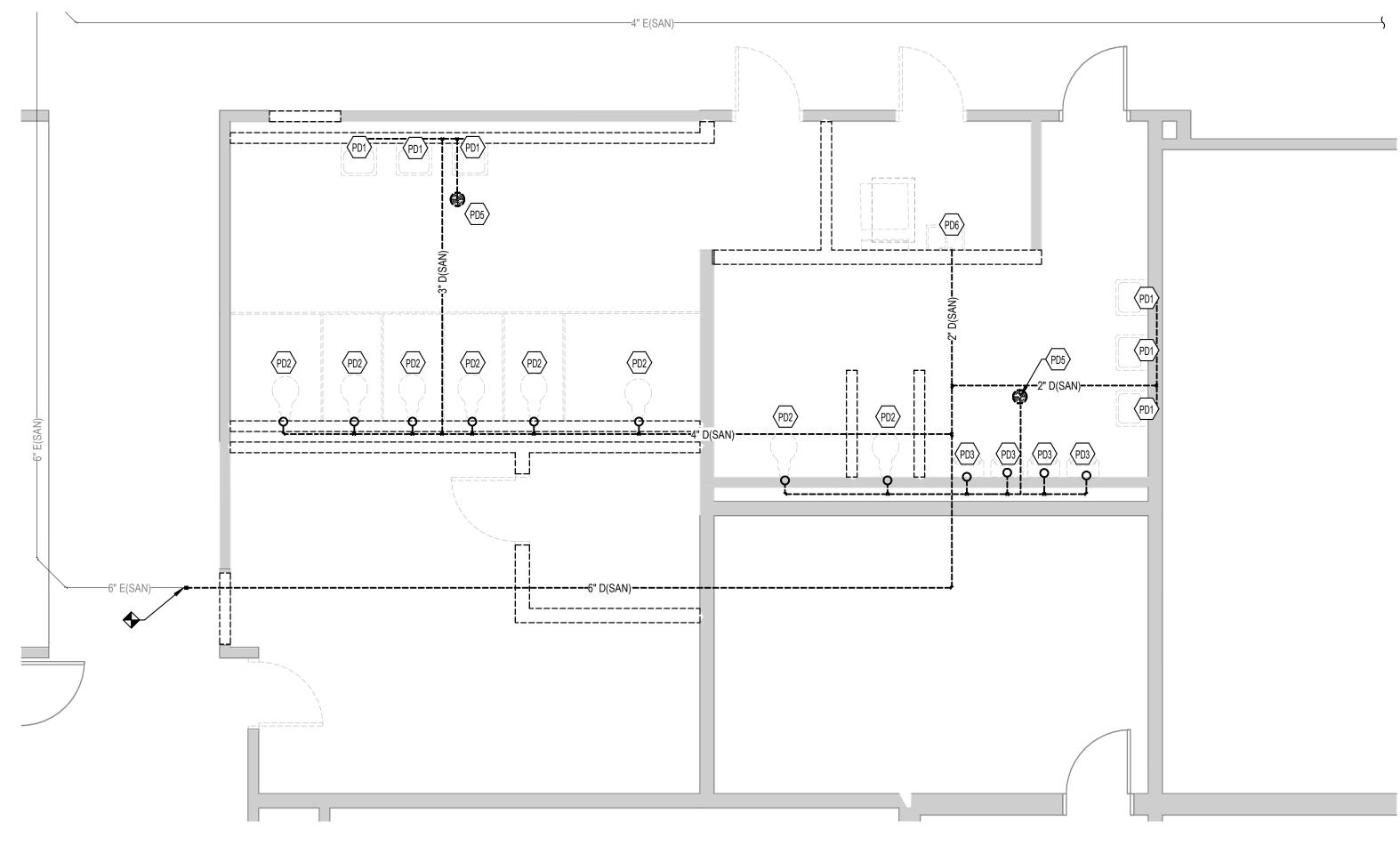
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWTICH
	TAMPER SWITCH
Щ	THERMOMETER
T	PETE'S PLUG; TEMPERATURE/PRESSURE PORT
	•

APPLICABLE BUILDING CODES			
APPLICABLE BUILDING CODES	DOCUMEN		
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.		
FIRE SPRINKLER CODE	NFPA 13		
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITI		
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITI		
INTERNATIONAL FIRE CODE (IFC)	STATE EDITI		
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITI		
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITI		
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITI		
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITI		
NATIONAL ELECTRIC CODE (NEC)	NFPA 70		
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72		
UNIFORM STATEWIDE BUILDING CODE	KBC		

ENT	YEAR
17.1	2009
13	2013
ITION	2015
ITION	2012
ITION	2015
ITION	2009
70	2017
72	2013
	2018



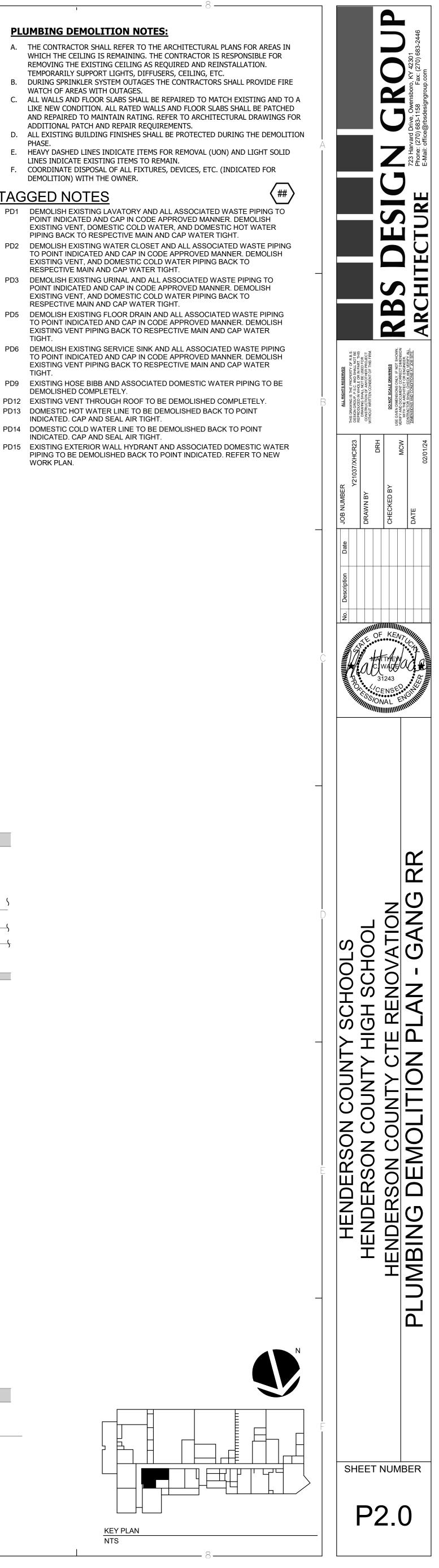


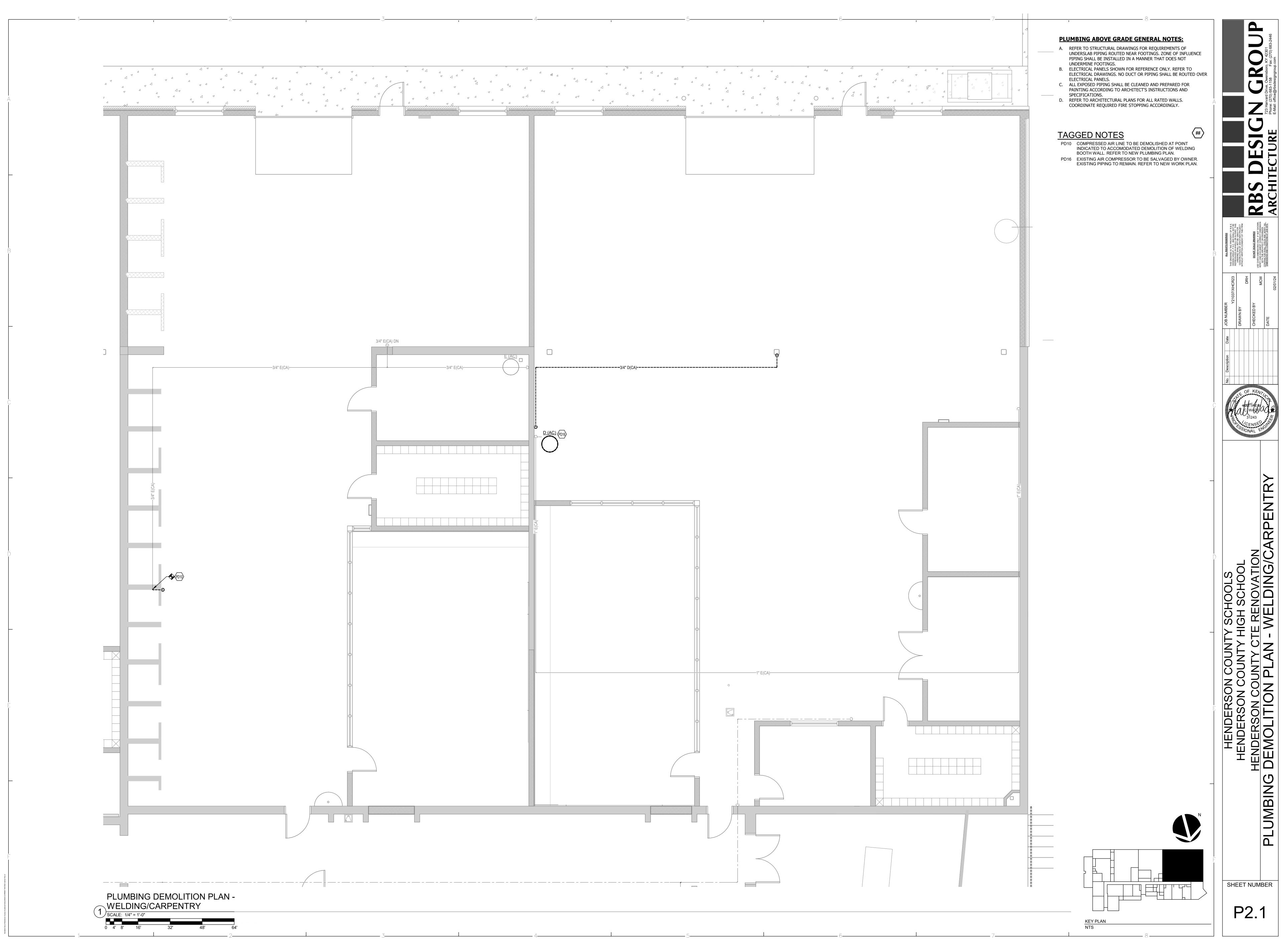


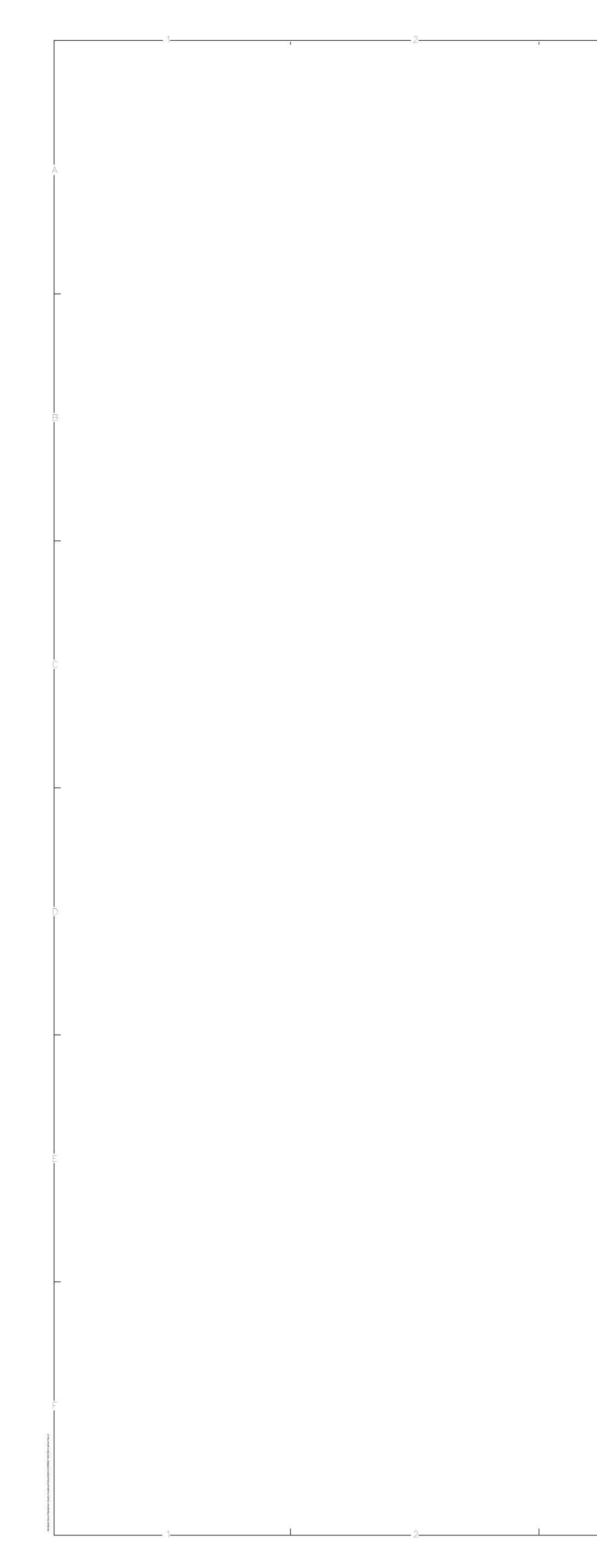
### PLUMBING DEMOLITION NOTES:

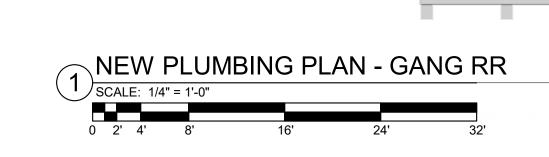
- WATCH OF AREAS WITH OUTAGES.
- ADDITIONAL PATCH AND REPAIR REQUIREMENTS. PHASE.
- LINES INDICATE EXISTING ITEMS TO REMAIN.
- DEMOLITION) WITH THE OWNER.

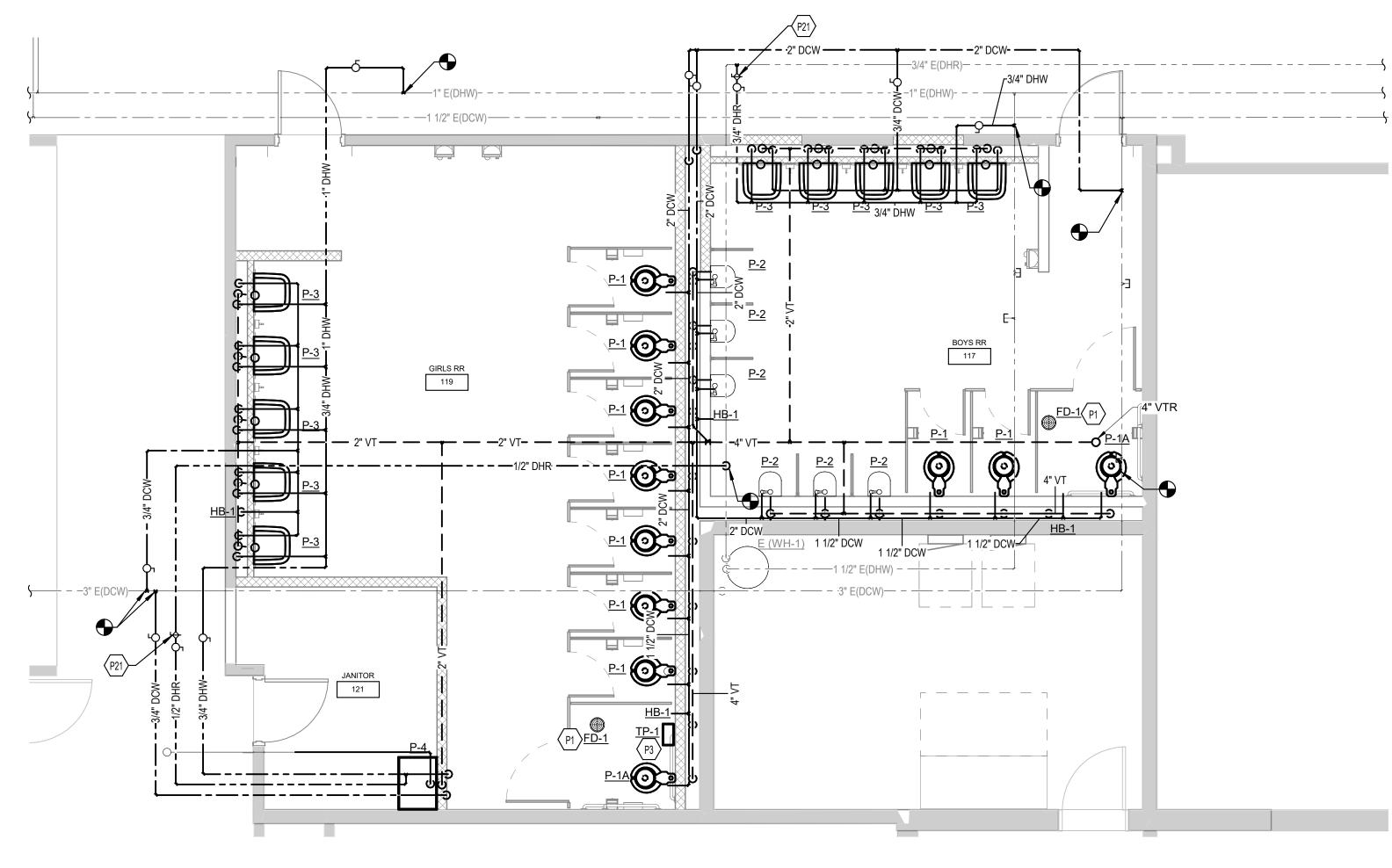
PD1	DEMOLISH EXISTING LAVATORY AND ALL ASSOCIA POINT INDICATED AND CAP IN CODE APPROVED M EXISTING VENT, DOMESTIC COLD WATER, AND DO PIPING BACK TO RESPECTIVE MAIN AND CAP WAT
PD2	DEMOLISH EXISTING WATER CLOSET AND ALL AS TO POINT INDICATED AND CAP IN CODE APPROVE EXISTING VENT, AND DOMESTIC COLD WATER PIF RESPECTIVE MAIN AND CAP WATER TIGHT.
PD3	DEMOLISH EXISTING URINAL AND ALL ASSOCIATE POINT INDICATED AND CAP IN CODE APPROVED M EXISTING VENT, AND DOMESTIC COLD WATER PIP RESPECTIVE MAIN AND CAP WATER TIGHT.
PD5	DEMOLISH EXISTING FLOOR DRAIN AND ALL ASSO TO POINT INDICATED AND CAP IN CODE APPROVE EXISTING VENT PIPING BACK TO RESPECTIVE MA TIGHT.
PD6	DEMOLISH EXISTING SERVICE SINK AND ALL ASSO TO POINT INDICATED AND CAP IN CODE APPROVE EXISTING VENT PIPING BACK TO RESPECTIVE MA TIGHT.
PD9	EXISTING HOSE BIBB AND ASSOCIATED DOMESTIC DEMOLISHED COMPLETELY.
PD12	EXISTING VENT THROUGH ROOF TO BE DEMOLISH
PD13	DOMESTIC HOT WATER LINE TO BE DEMOLISHED INDICATED. CAP AND SEAL AIR TIGHT.
PD14	DOMESTIC COLD WATER LINE TO BE DEMOLISHED INDICATED. CAP AND SEAL AIR TIGHT.
PD15	EXISTING EXTERIOR WALL HYDRANT AND ASSOC

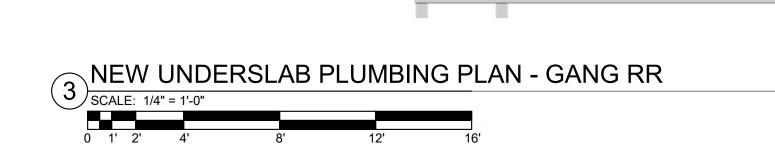


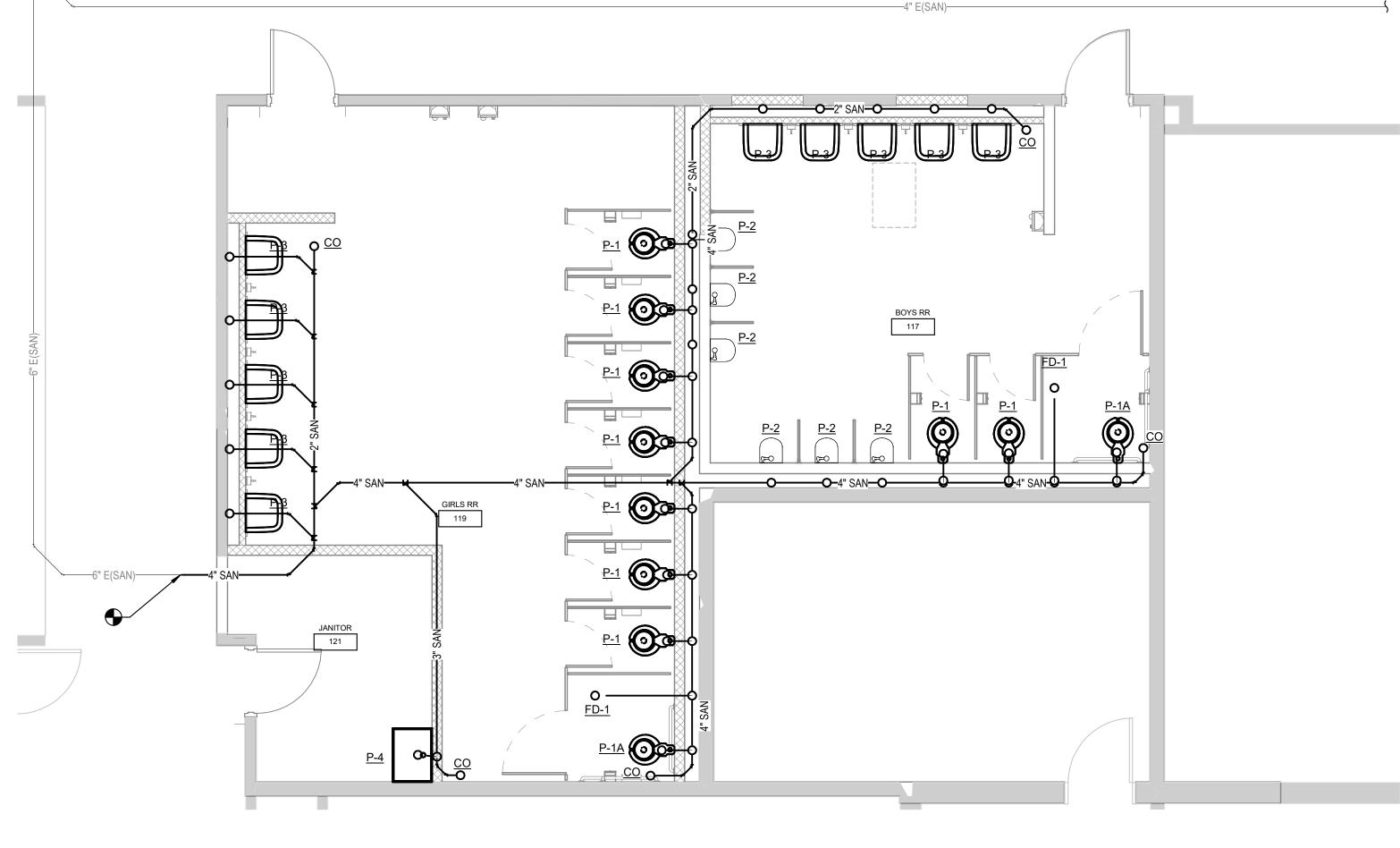




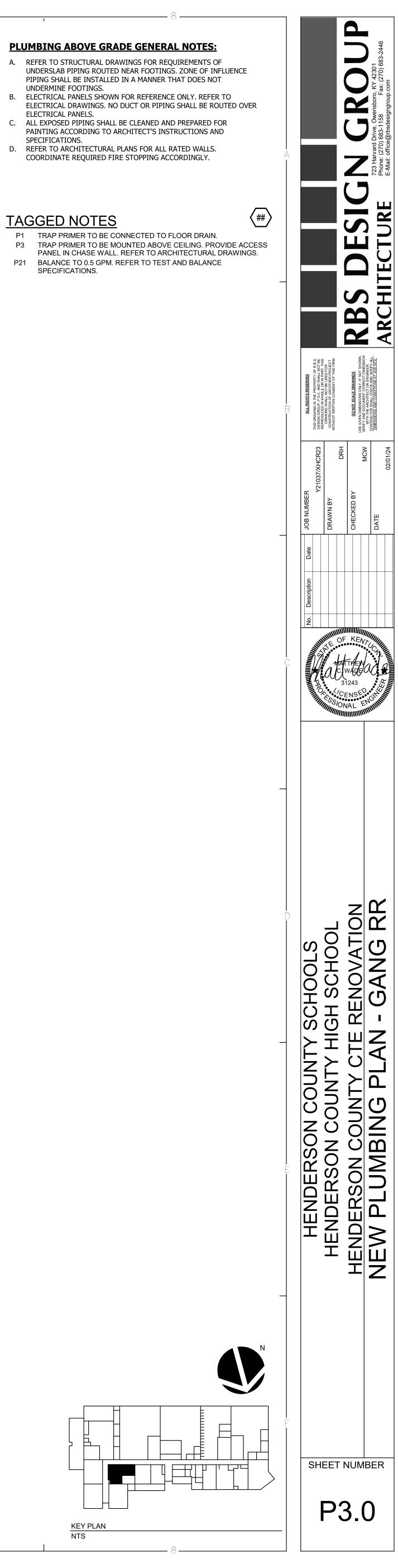


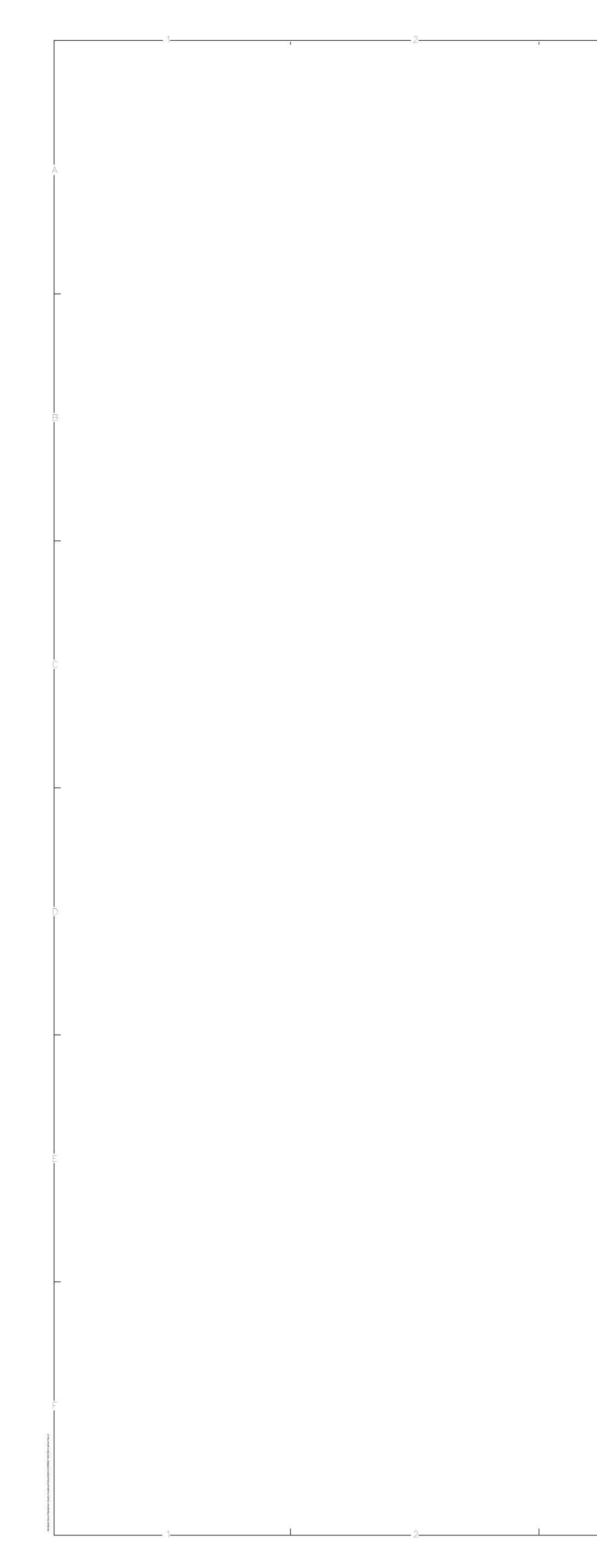


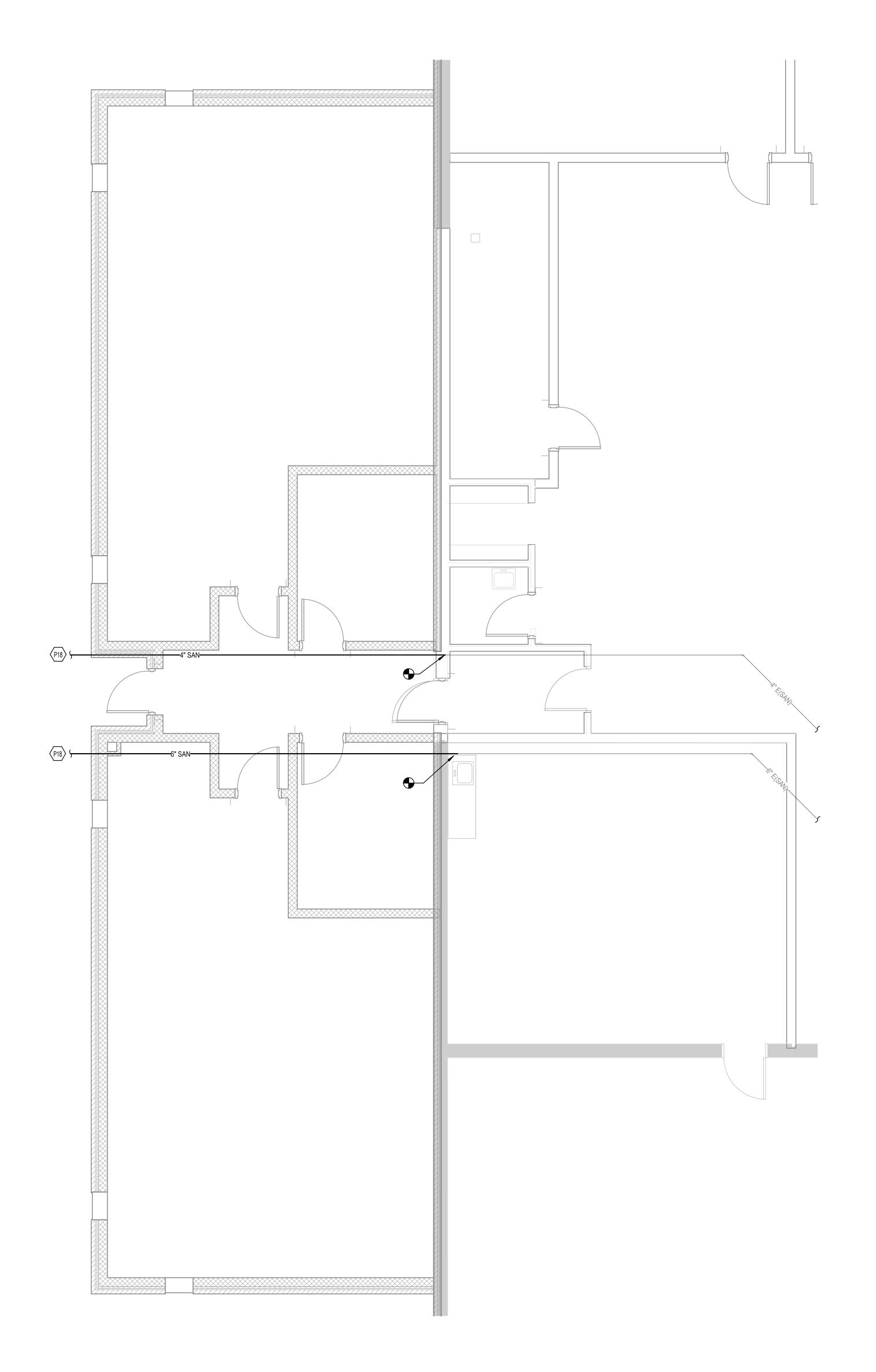


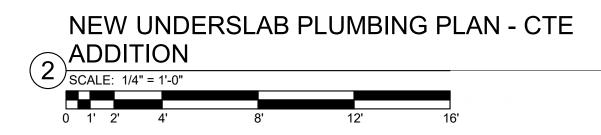


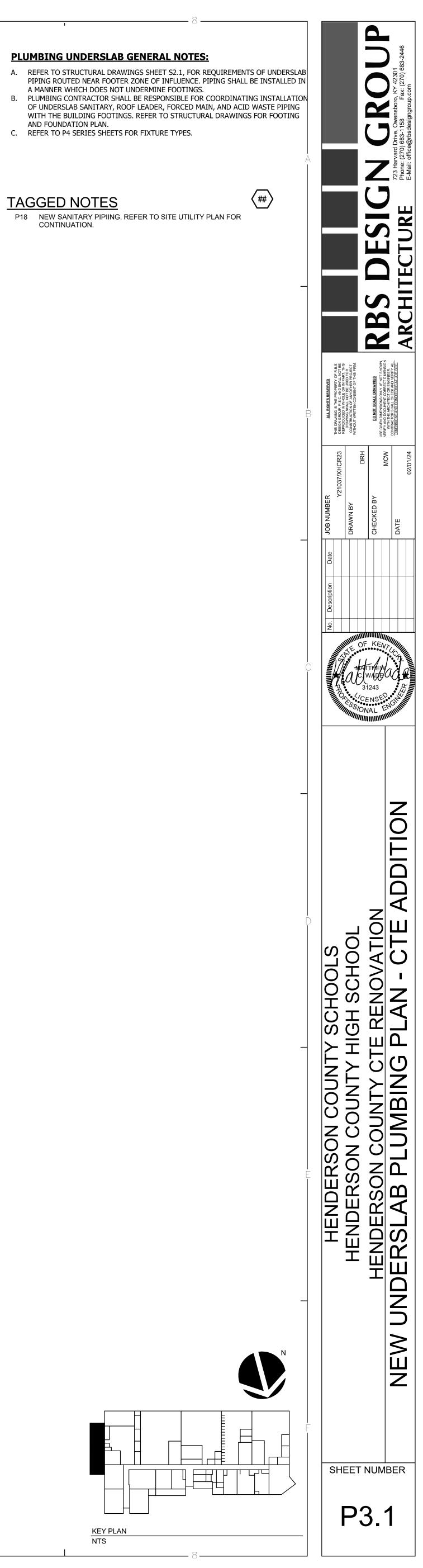
- UNDERMINE FOOTINGS.
- SPECIFICATIONS.

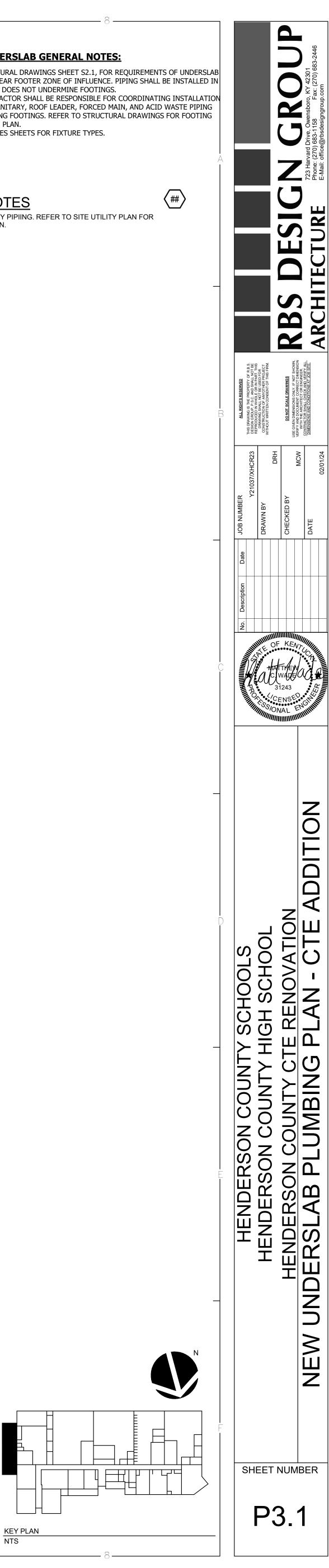


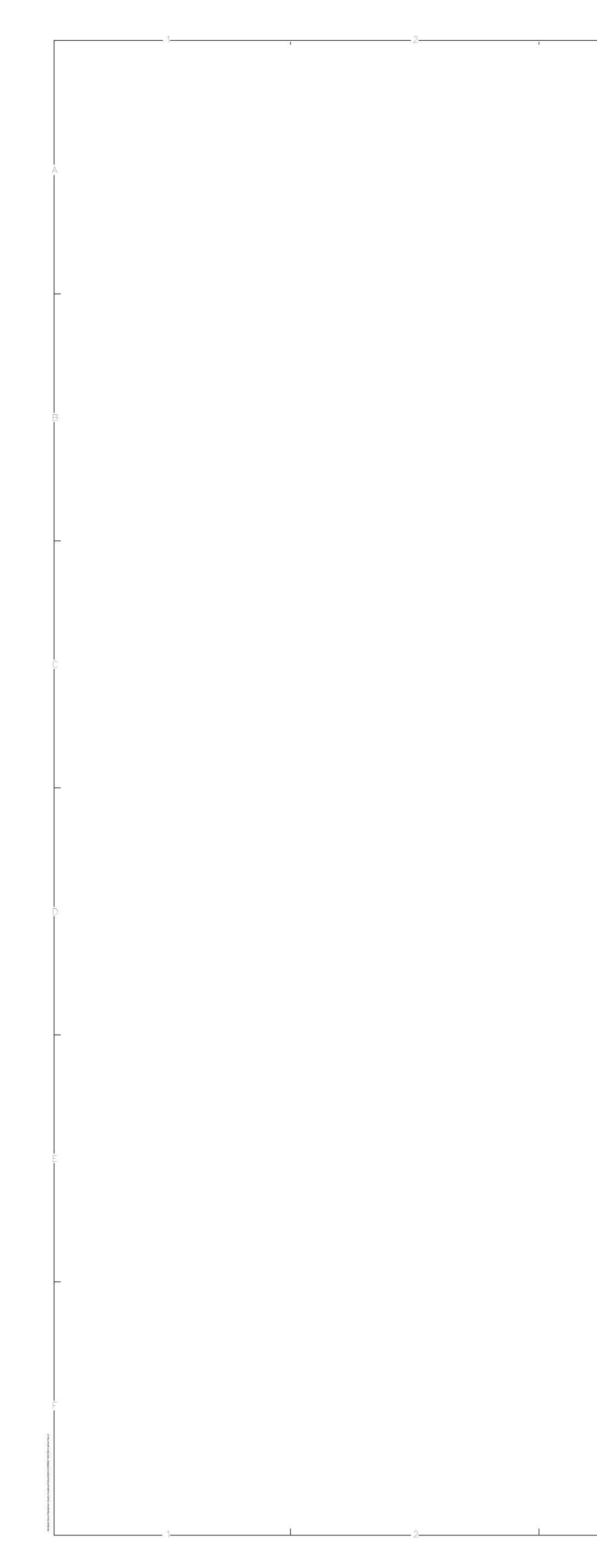


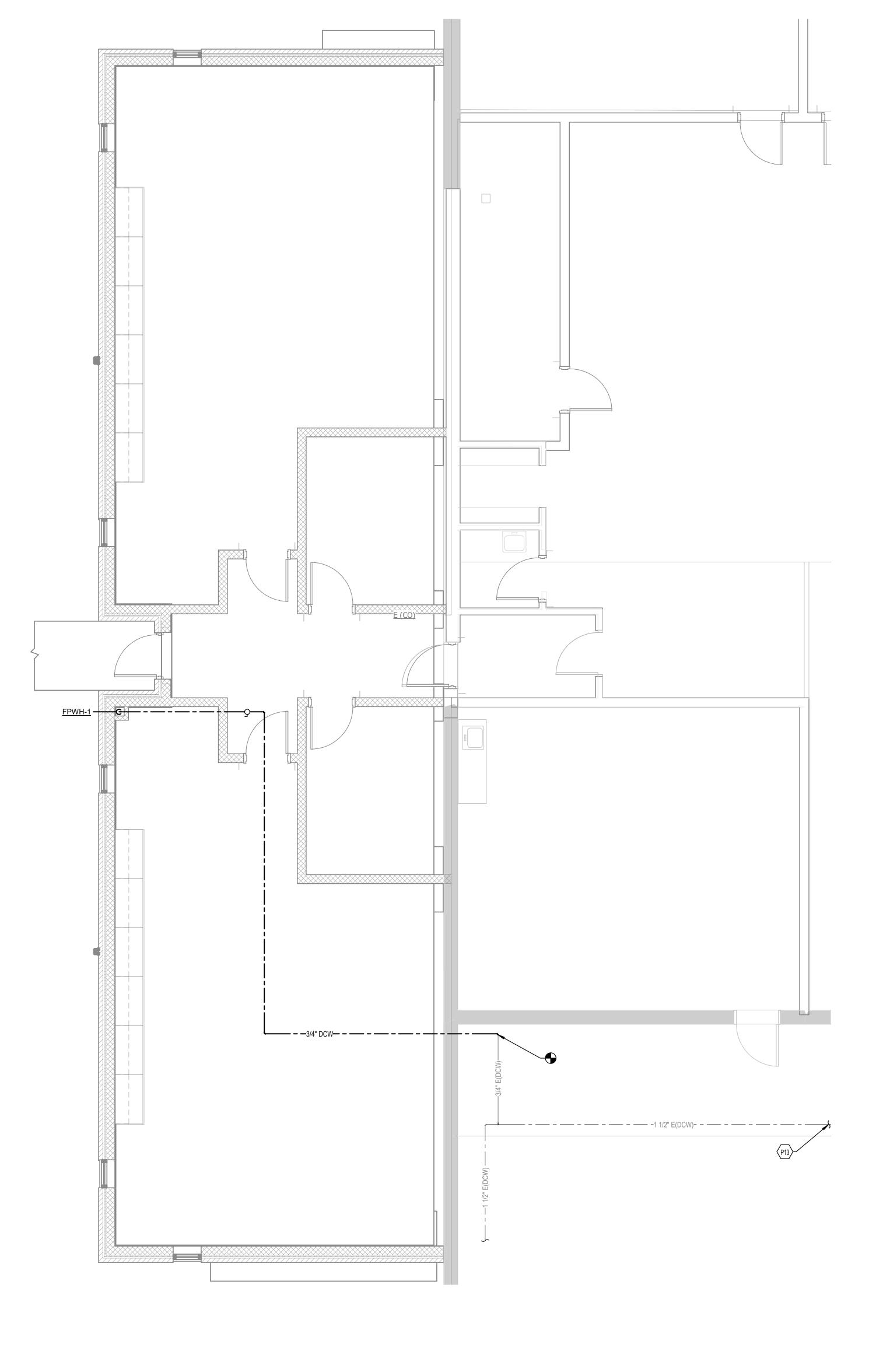








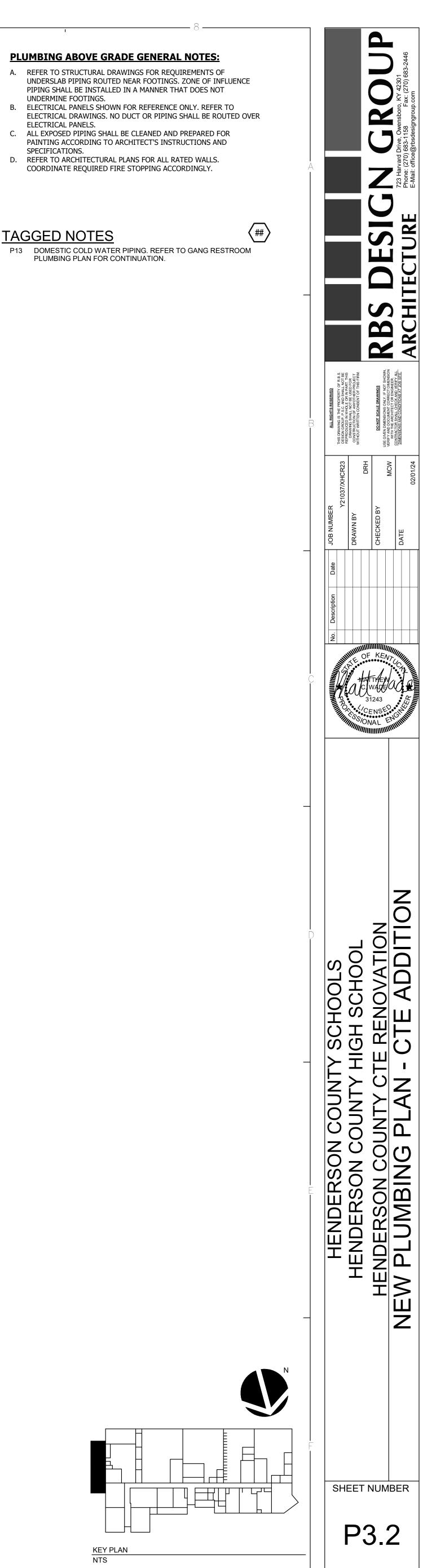


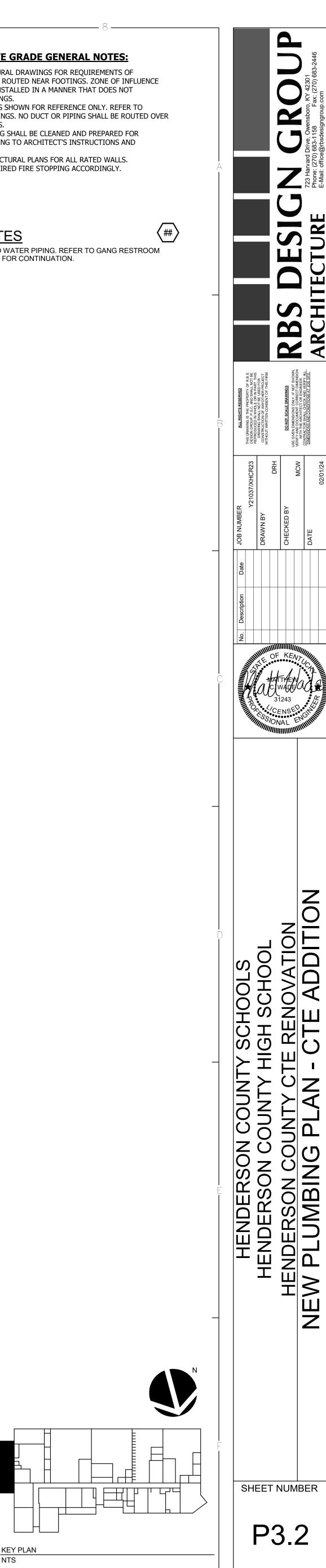


 NEW PLUMBING PLAN - CTE ADDITION

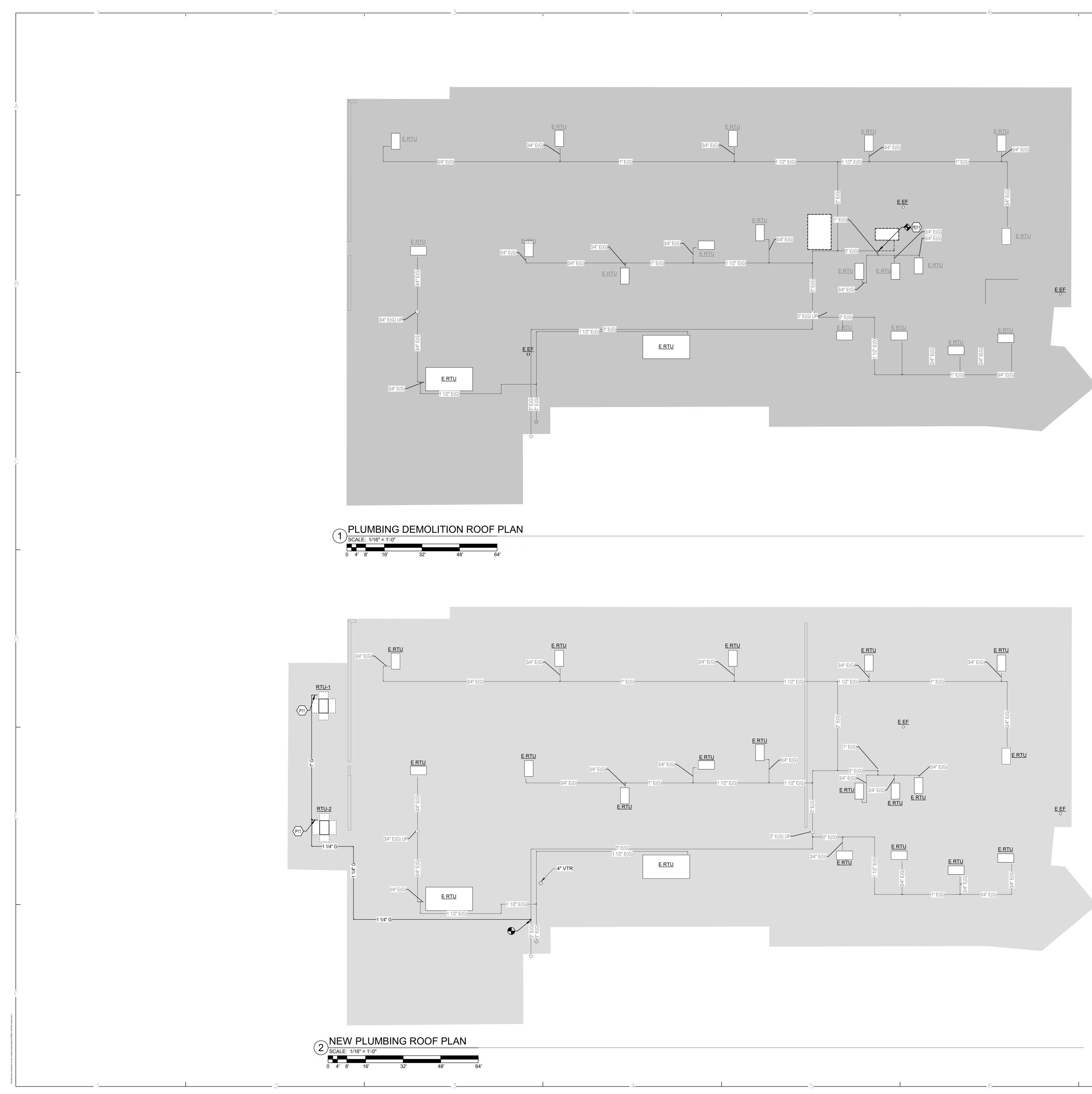
 SCALE: 1/4" = 1'-0"

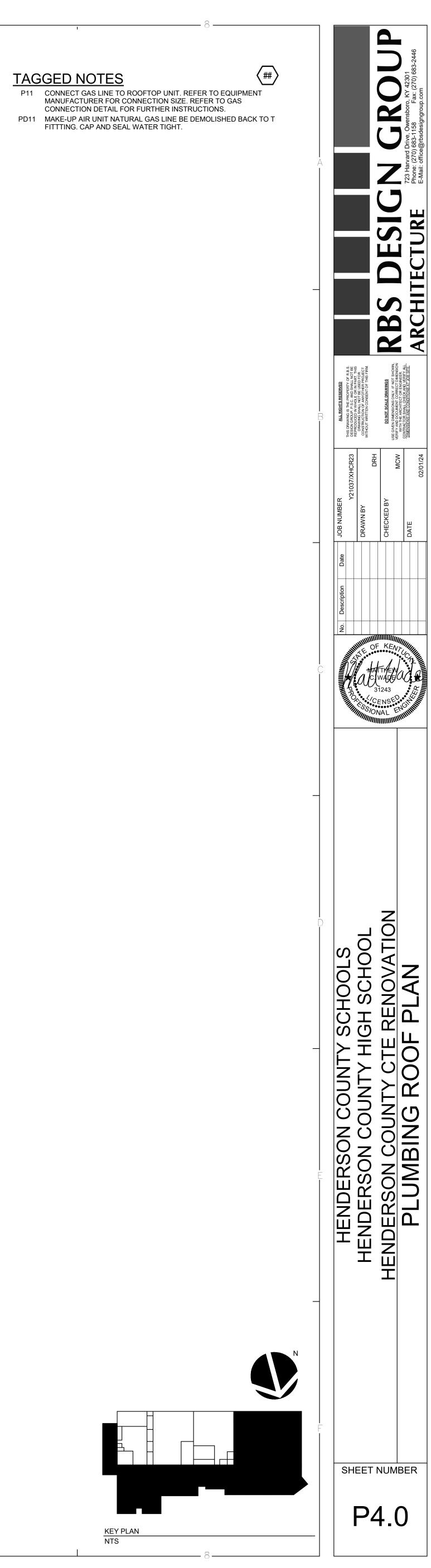
 0
 1'
 2'
 4'
 8'
 12'
 16'

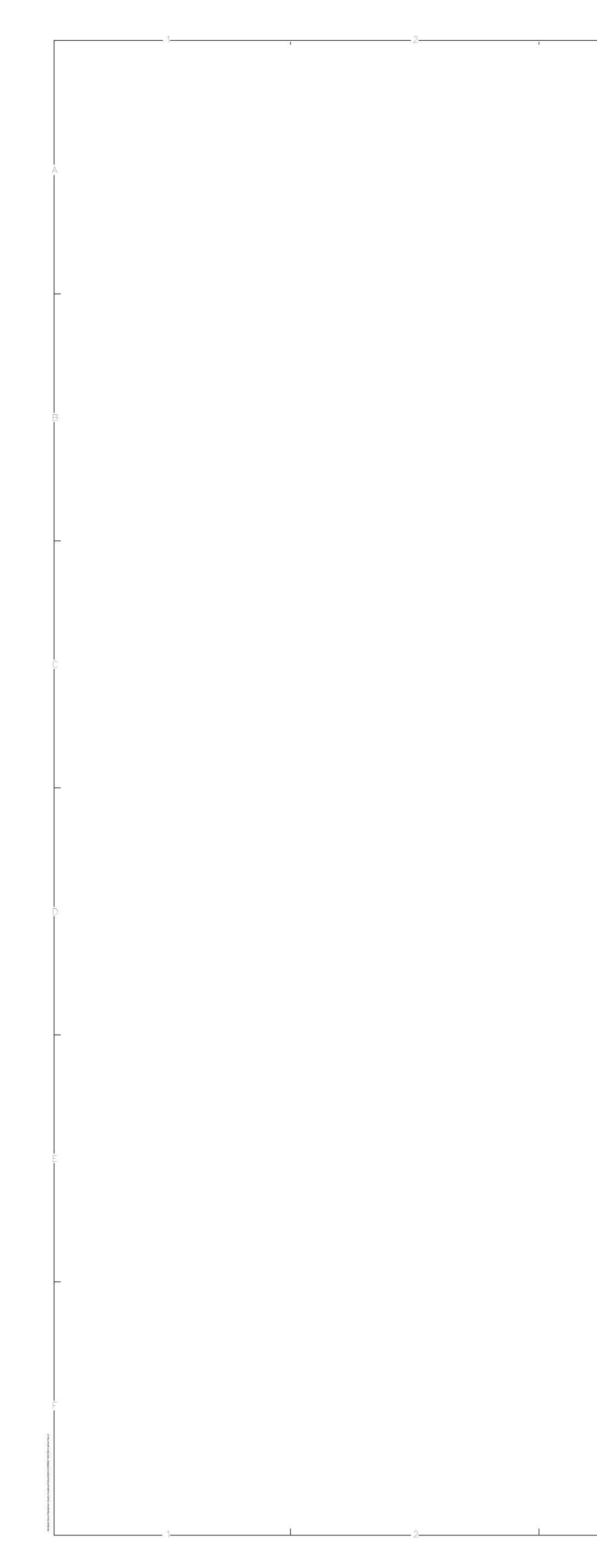


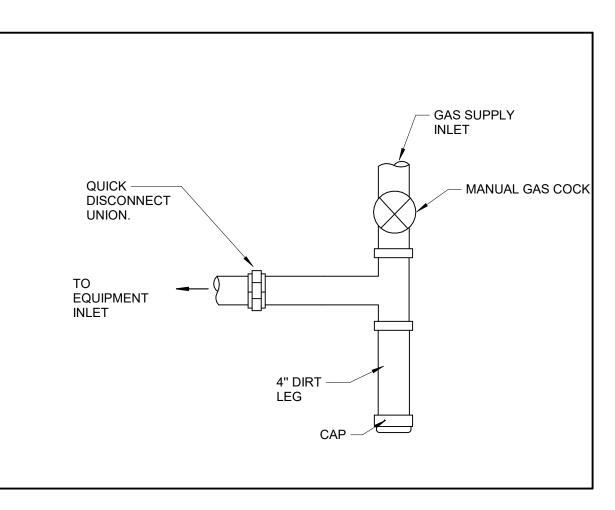




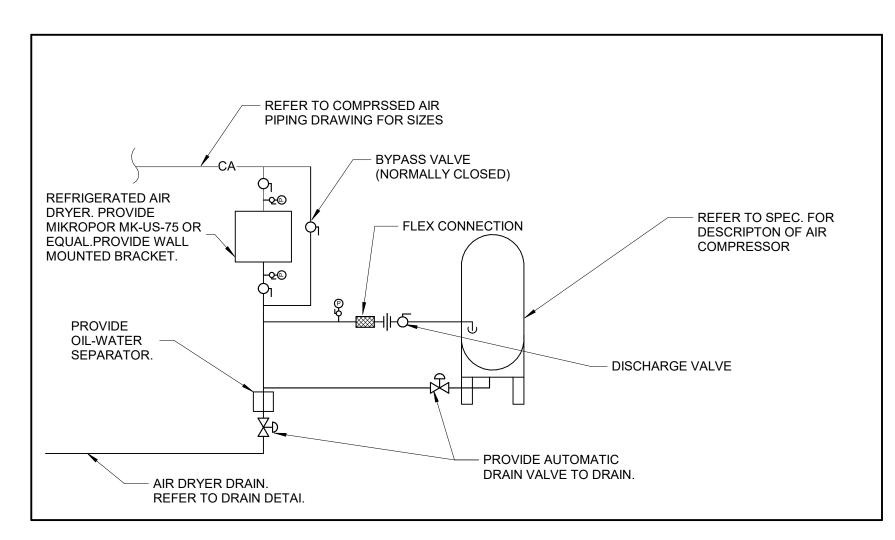




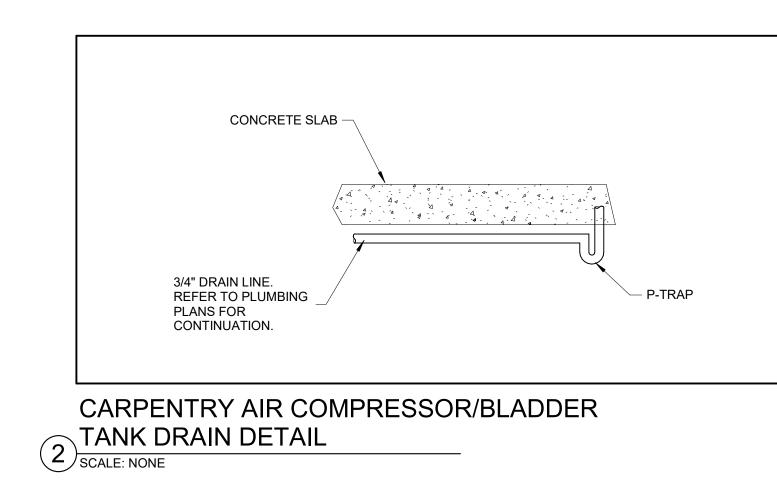


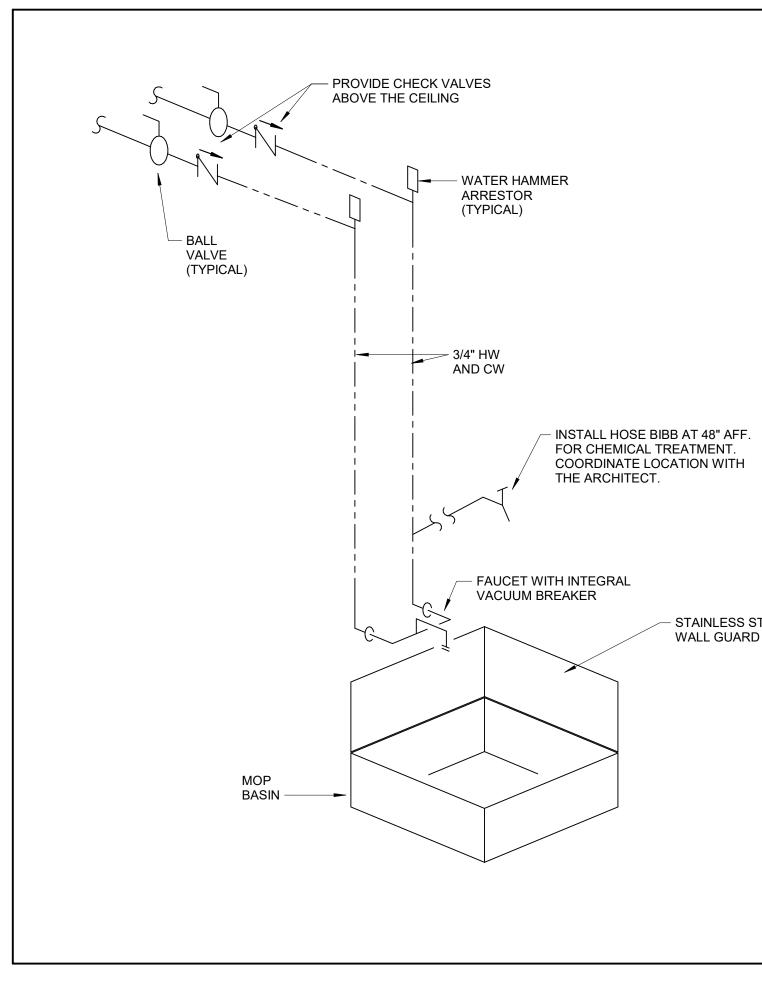


5 SCALE: NONE

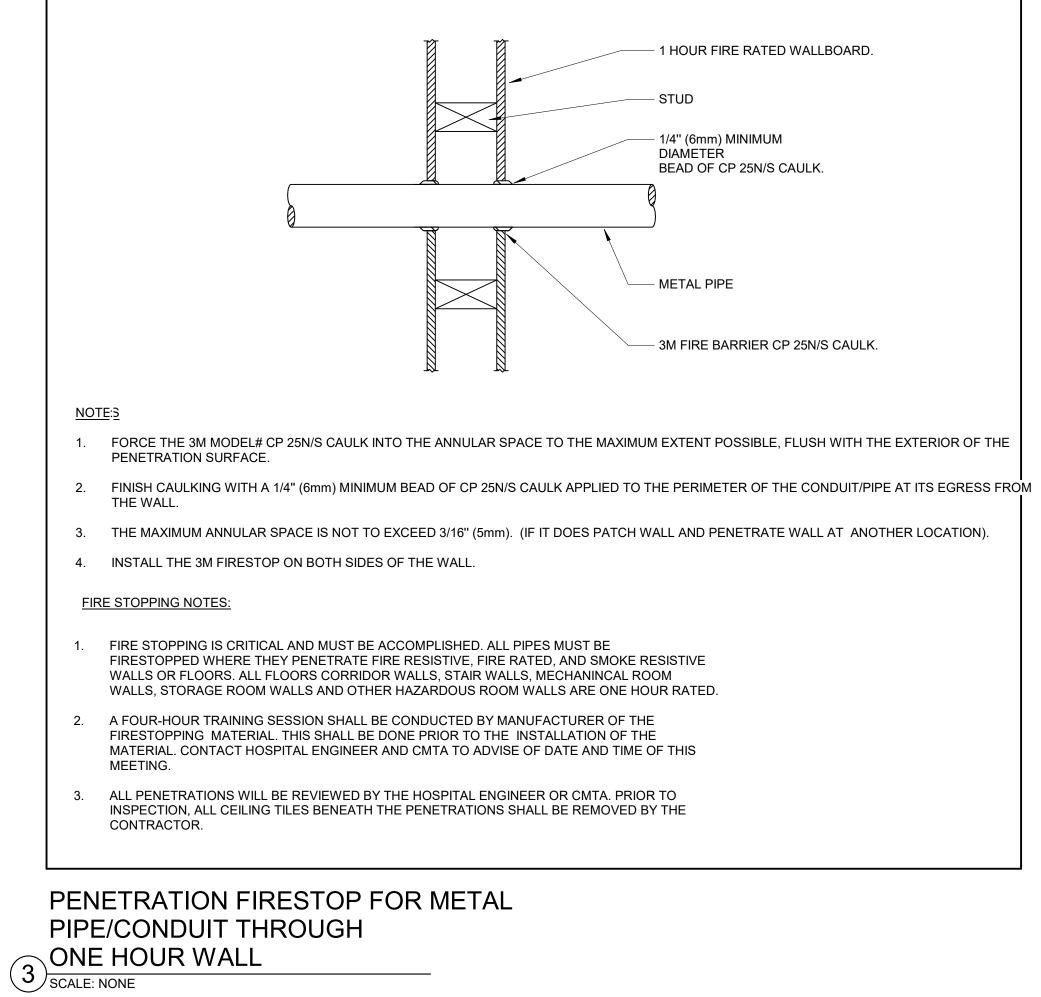


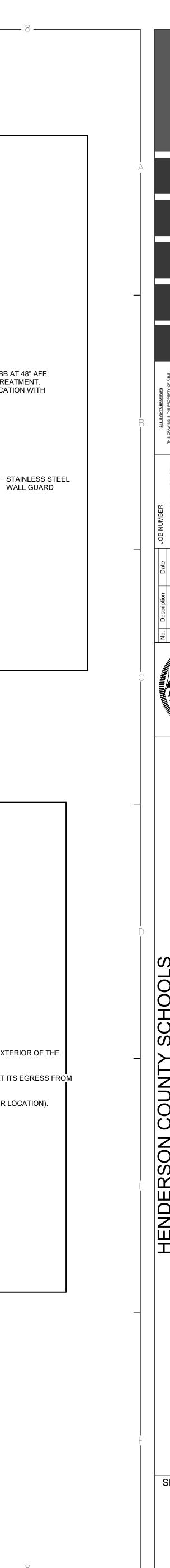


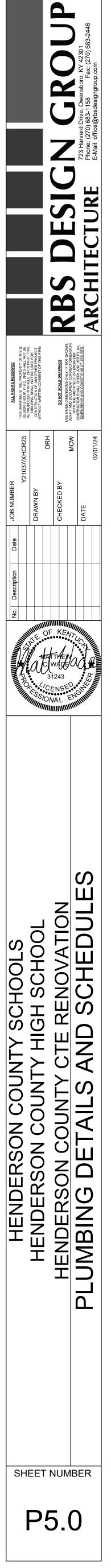


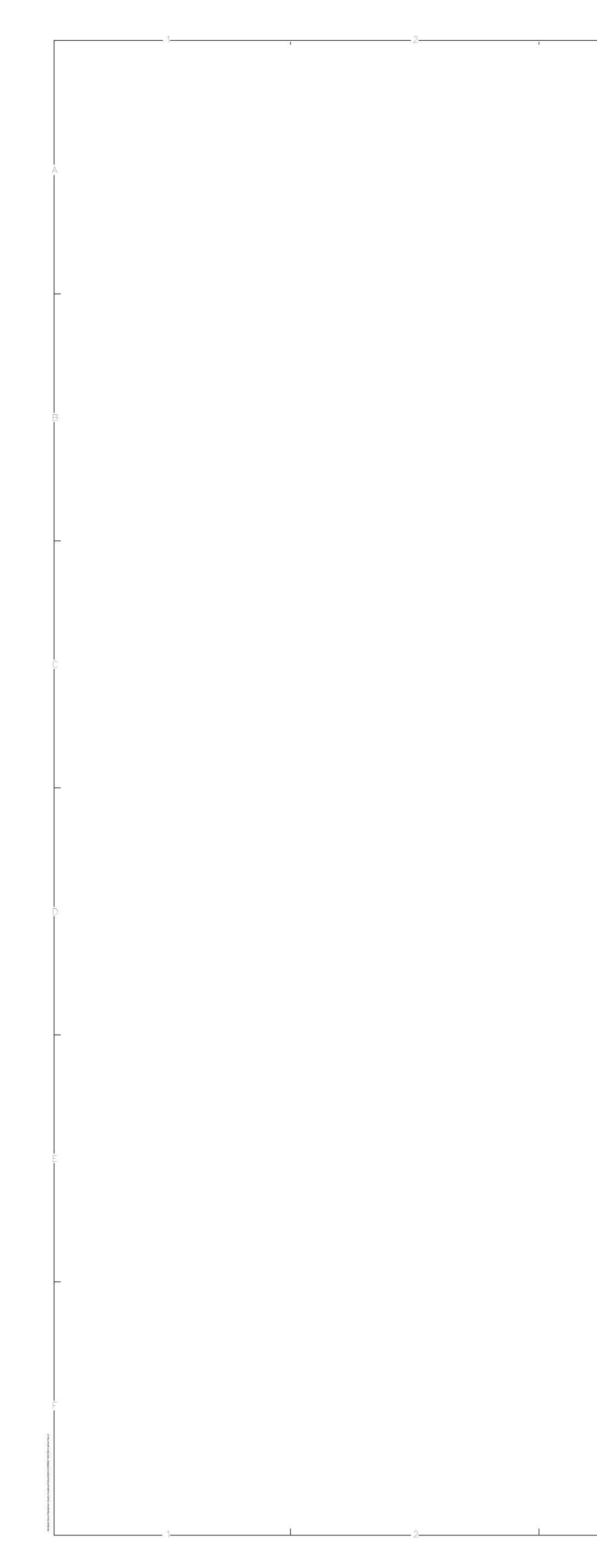


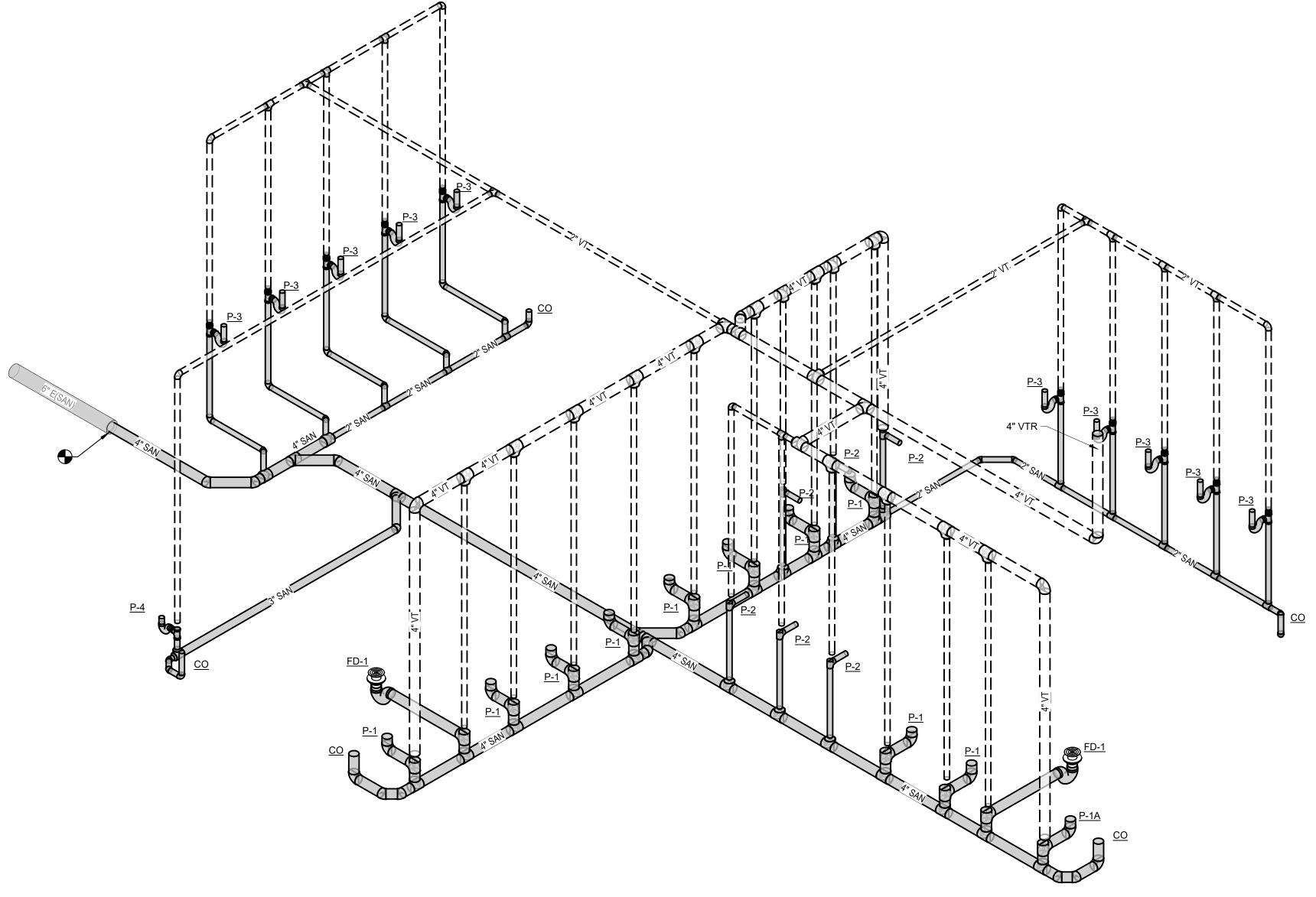
1 MOP BASIN DETAIL SCALE: NONE





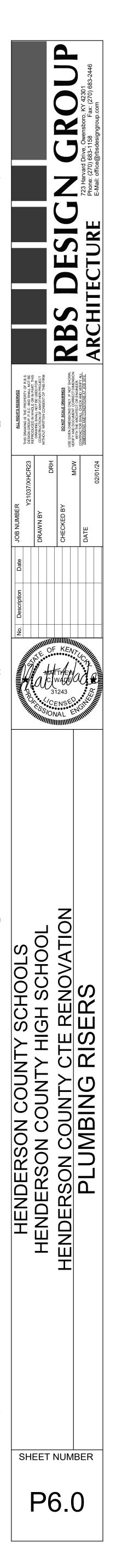








PLUMBING RUNOUT FIXTURE SCHEDULE					
TAG	VENT	WASTE/DRAIN			
FD-1	2"	4"			
P-1	2"	4"			
P-1A	2"	4"			
P-2	2"	2"			
P-3	2"	2"			
P-4	2"	3"			



CHANICAL GENERAL NOTES:	ABBREVIA
MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL	AC
THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO	ADJ
RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE	AFF
AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST	AFR
STRINGENT REQUIREMENT SHALL APPLY. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR	AFUE
SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE	AHJ
ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING	AMP
COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.	ANSI
ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.	APD
OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY,	ASHRAE
ETC.) CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS	ATU
TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.	AVG
APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING	BAS
ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND	
ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.	BHP
EXTERIOR VENTS.	BTU
FIELD. DO NOT SCALE THE DRAWINGS.	САР
NECESSARY. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH	CAV
PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION	CD
PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL	CFM
SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE	C.I.
SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.	CLG
UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT	CLR
WITH NEW WORK. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM,	СО
WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.	CO2
ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM	COND
SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON	CONT
DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A	CU FT
DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED	CU IN
ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE	
OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER	CV
UNDER NO CIRCUMSTANCES SHOULD NEW WORK BE INSTALLED BELOW A FOOTER OR WITHIN THE ZONE OF	dB
CONDITION IS UNAVOIDABLE, COORDINATE WITH STRUCTURAL ENGINEER AND INSTALL AND BACKFILL PER STRUCTURAL DETAILS AND REQUIREMENTS.	DB
	DBT
	DC
CHANICAL HAZARDOUS NOTES:	DD
THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY	DDC
MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR	DEG
IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.	DIA
CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH	DN
RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.	DWG
EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL	EAT
THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK	
THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT,	EC
	efe RefNorder ADD PROFERLY INSTALLED AT THE EVERSE OF THE CONTRACTOR. THE CONTRACTOR SOLUL PERCESS EXTERME CARE IN THE PURCHES, BY MARTICULAR ATTENTION TO THIS INFECUATION TO INTERPET ANY DISTING SERVICE. TORS BATTY REPORTS BY MARTICULAR ATTENTION TO THIS INFECUATION TO INTERPET ANY DISTING SERVICE. TORS BATTY REPORTS BY MARTICULAR ATTENTION TO THIS INFECUATION TO INTERPET ANY DISTING SERVICE. TORS BATTY REPORTS BY MARTICULAR ATTENTION TO THIS INFECUATION TO INTERPET ANY DISTING SERVICE. TORS BATTY REPORTS BY MARTICULAR ATTENTION TO THIS INFECUATION TO INTERPET AND PORTOR SERVICE. TORS BATTY REPORTS BY MARTICULAR ATTENTION TO THIS INFECUATION TO THIS PARE ICAR BY MARTICULAR TO BE INFECTIVICY OPERATION TO MARCE DECOMPOSITION TO HEAR REFRERE TO REPORT DURING TO HEAD TO THE ADD CARE INFECTION. THE ADD CARD TO HEAD TO THE ADD CARD TO HEAD THE HEAD TO HEAD TO HEA

- ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES. E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

### **MECHANICAL PHASING NOTES:**

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

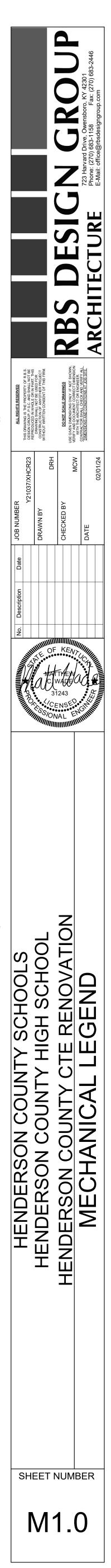
BREVIA	ATIONS	ABBREVIA	TIONS (CONTINUED)	ABBREVI	ATIONS (CONTINUED)
AC	ALTERNATING CURRENT	FD	FIRE DAMPER	NO	NORMALLY OPEN <b>OR</b> NUMBER
ADJ	ADJUSTABLE	FL	FLOOR	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	OC	ON CENTER
AFR	ABOVE FINISHED ROOF	FOB	FLAT ON BOTTOM	OD	OUTSIDE DI (-AMETER, -MENSION)
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	FOT	FLAT ON TOP	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
AHJ	AUTHORITY HAVING JURISDICTION	FPC	FIRE PROTECTION CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AMP	AMPERE (AMP, AMPS)	FPM	FEET PER MINUTE	OFOI	OWNER FURNISHED, OWNER INSTALLED
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	FPS	FEET PER SECOND	OR	OPEN RECEPTACLE
APD	AIR PRESSURE DROP	FT	FEET <b>OR</b> FOOT	OZ	OUNCE (-S)
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS	FUT	FUTURE	PC	PLUMBING CONTRACTOR
ATU	AIR TERMINAL UNIT	FV	FACE VELOCITY	PD	PRESSURE DROP
AVG	AVERAGE	GA	GAGE/GAUGE	PH	PHASE [ELECTRICAL]
BAS	BUILDING AUTOMATION SYSTEM	GAL	GALLON (-S)	PLBG	PLUMBING
BHP	BREAK HORSEPOWER	GC	GENERAL CONTRACTOR	PPM	PARTS PER MILLION
BTU	BRITISH THERMAL UNIT	GPD	GALLONS PER DAY	PRS	PRESSURE REDUCING STATION
САР	CAPACITY	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
CAV	CONSTANT AIR VOLUME	GPM	GALLONS PER MINUTE	PSF	POUNDS PER SQUARE FOOT
CD	CONDENSATE DRAIN	GR	GRAINS	PSI	POUNDS PER SQUARE INCH
CFM	CUBIC FEET PER MINUTE	н	HUMIDITY	PSIG	PPSI GAUGE
C.I.	CAST IRON	HD	HEAD		RELATIVE HUMIDITY [%]
CLG	CEILING	HG	MERCURY	RLA	RUNNING LOAD AMPS
CLR	CLEAR	HORIZ	HORIZONTAL	RPM	REVOLUTIONS PER MINUTE
CO	CARBON MONOXIDE		H (-ORSEPOWER, -EAT PUMP)		SMOKE DAMPER
		HP		SD	
CO2		HR	HOUR (-S)	SP	STATIC PRESSURE
COND	CONDENS (-ER, -ING, -ATION, -ATE)	HVAC	HEATING, VENTILATING, & AIR-CONDITIONING	SQ	SQUARE
CONT	CONTINU (-ED, -OUS)	Hz	HERTZ	SQ FT	SQUARE FEET <b>OR</b> FOOT
CU FT	CUBIC FEET	ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)	SQ IN	SQUARE INCH <b>OR</b> INCHES
CU IN	CUBIC INCHES	IN	INCH (-ES)	TAB	TESTING AND BALANCING
CV	VALVE FLOW COEFFICIENT	INSUL	INSULAT (-ED, -ION)	TBD	TO BE DETERMINED
dB	DECIBEL	INT	INTER (-IOR, -ERVAL)	TE	TOP ELEVATION
DB	DRY BULB	IPS	IRON PIPE SIZE	TEMP	TEMPERATURE
DBT	DRY BULB TEMPERATURE	kW	KILOWATT	TSP	TOTAL STATIC PRESSURE
DC	DIRECT CURRENT	kWh	KILOWATT HOUR	TYP	TYPICAL
DD	DUCT SMOKE DETECTOR	LAT	LEAVING AIR TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
DDC	DIRECT DIGITAL CONTROLS	LBS	POUNDS	V	VOLT (-AGE, -S)
DEG	DEGREE (-S)	LF	LINEAR FEET/FOOT	VAR	VARI (-ABLE, -IES)
DIA	DIAMETER (-S)	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME
DN	DOWN	LWT	LEAVING WATER TEMPERATURE	VEL	VELOCITY
DWG	DRAWING	MAX	MAXIMUM	VFD	VARIABLE FEQUENCY DRIVE
EAT	ENTERING AIR TEMPERATURE	MBH	BTU PER HOUR [THOUSANDS]	W	WATT (-AGE, -S)
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	WB	WET BULB
ELEV	ELEVA (-TION, -TOR)	MFG	MANUFACTURER	WBT	WET BULB TEMPERATURE
ENGR	ENGINEER	MIN	MIN (-IMUM, -UTE)	WPD	WATER PRESSURE DROP
EQ	EQUAL	MISC	MISCELLANEOUS	WT	WEIGHT
ESP	EXTERNAL STATIC PRESSURE	MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]	W/	WITH
ETR	EXISTING TO REMAIN	MTG	MOUNTING	W/O	WITHOUT
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)	N/A	NOT APPLICABLE	%	PERCENT
EWT	ENTERING WATER TEMPERATURE	NC	NOISE CRITERIA <b>OR</b> NORMALLY CLOSED	ΔΡ	DIFFERENTIAL PRESSURE
EXP	EXPANSION	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU	ΔΤ	TEMPERATURE DIFFERENCE
EXT	EXTERIOR	NIC	NOT IN CONTRACT	¢_	CENTERLINE
			l		

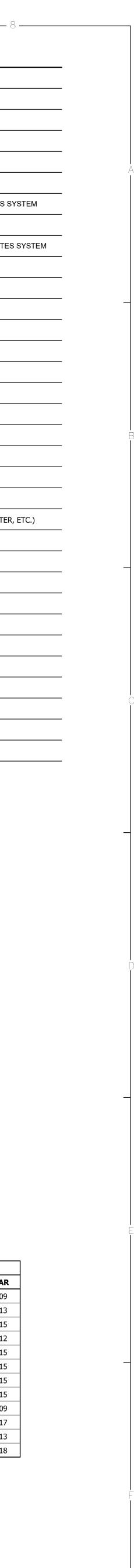
GENERAL SYMBOLS				
<b>(#</b> )	TAGGED NOTE DESIGNATOR			
$\bigtriangleup$	REVISION TRIANGLE			
ROOM NAME [RM #]	ROOM TAG			
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG			
•	POINT OF CONNECTION / CONNECT TO EXISTING			
<b>\$</b>	POINT OF DEMOLITION			

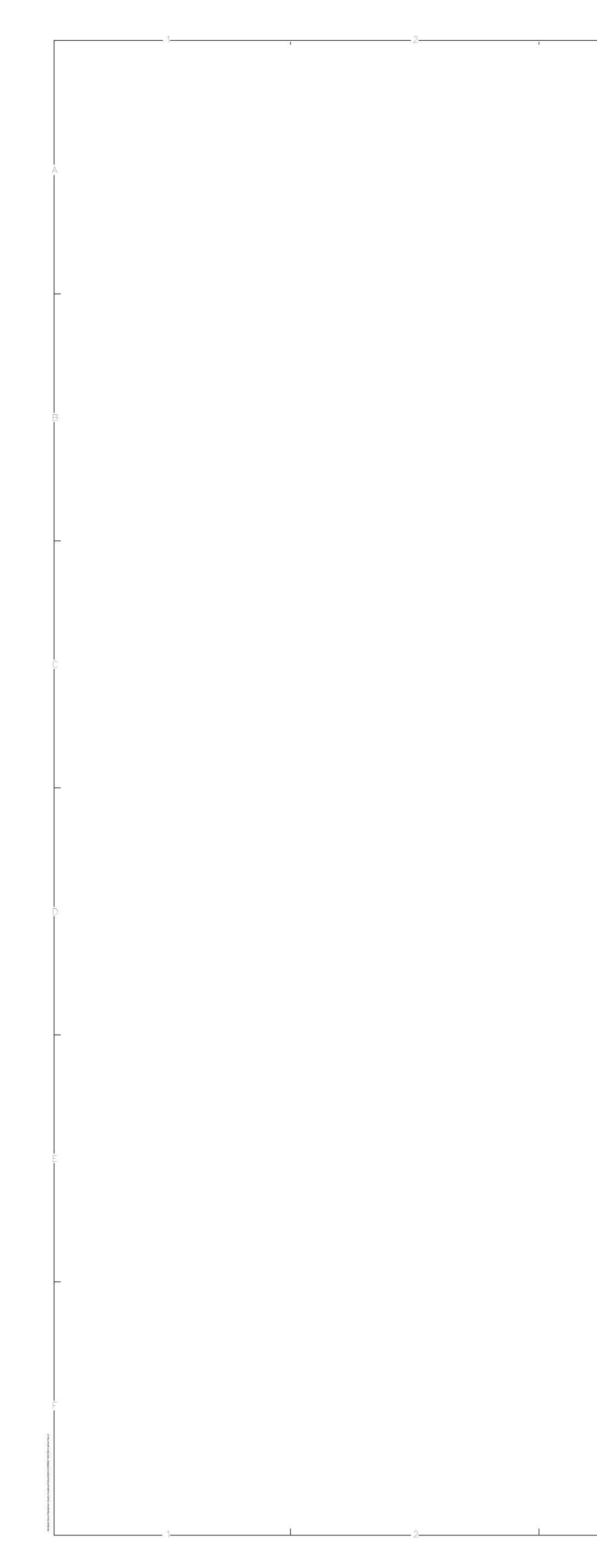
$\boxtimes$	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
$\square$	EXHAUST AIR DIFFUSER
কশ	SIDEWALL DIFFUSER/GRILLE
TAG XXX	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##x##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
TA	TRANSFER AIR DUCT
DC	DUST COLLECTION DUCT
CAE	COMBUSTION AIR EXHAUST DUCT
CAI	COMBUSTION AIR INTAKE DUCT
SA SA	SA AIR DUCT TURNING UP
× SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA P	EA AIR DUCT TURNING DOWN
E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
D(XXX)	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
ತ್ರು	MITERED ELBOW WITH TURNING VANES
++++++	FLEXIBLE DUCT
T	THERMOSTAT
Ts	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
©	CARBON DIOXIDE SENSOR
TC	TEMPERATURE & CARBON DIOXIDE SENSOR
	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	MOTORIZED DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER

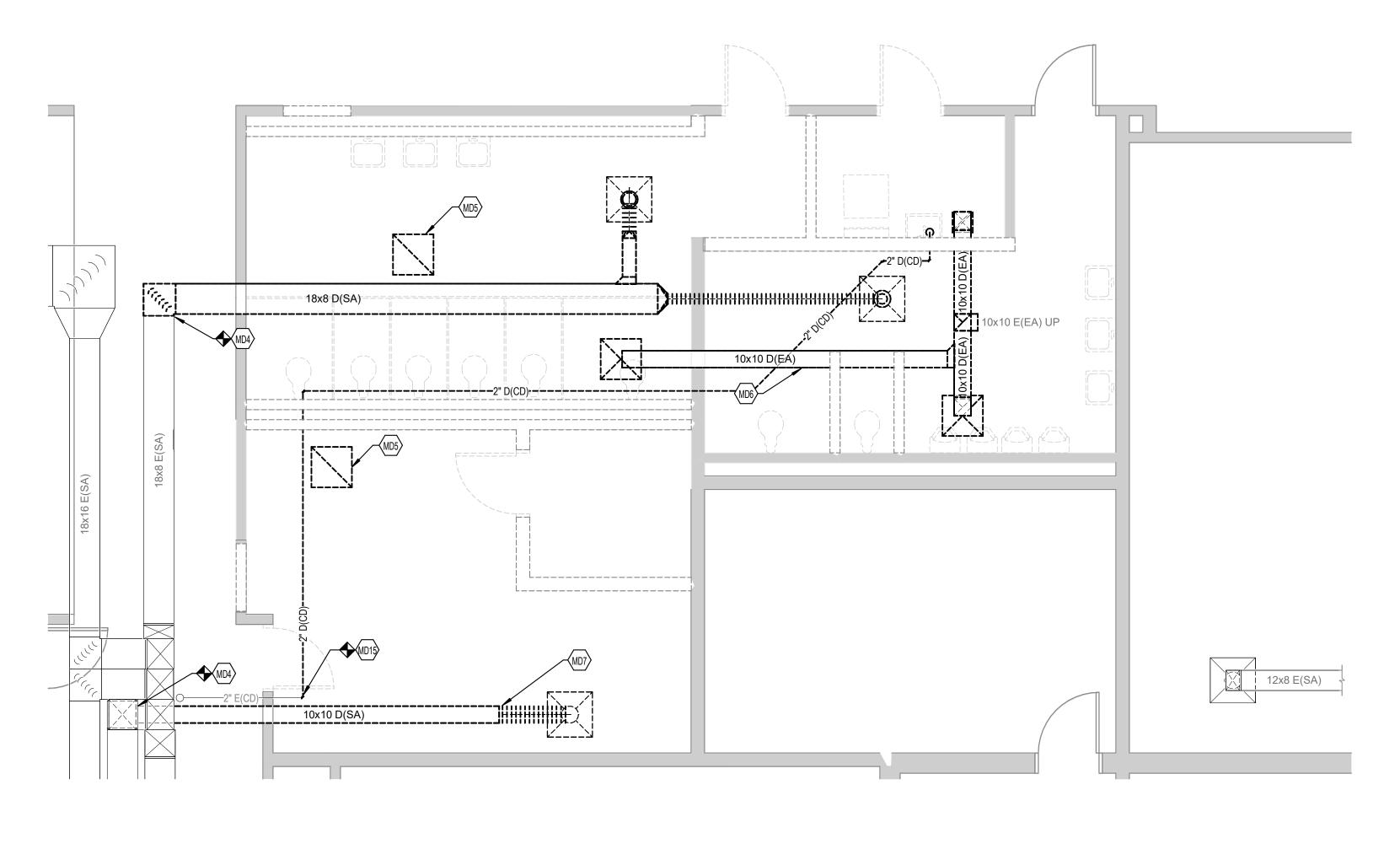
—o	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
CD	CONDENSATE DRAIN
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES S
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DENOTE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
φ	AUTOMATIC AIR VENT (AAV)
<u> </u>	MANUAL AIR VENT (MAV)
$-\overline{\frown}$	MANUAL BALANCING VALVE (BV)
ō	BALL VALVE
—X—	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
—Þ¤I—	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
II	PIPING UNION
<b>₽</b> <sup>FS</sup>	FLOW SWITCH
₽ <sup>PS</sup>	PRESSURE SWTICH
	TAMPER SWITCH
Ψ	THERMOMETER
T	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

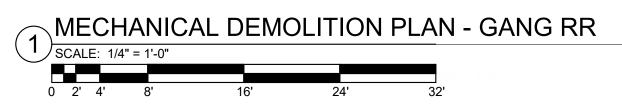
APPLICABLE BUILDING CODES				
APPLICABLE BUILDING CODES	DOCUMENT	YEAR		
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009		
FIRE SPRINKLER CODE	NFPA 13	2013		
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015		
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITION	2012		
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015		
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015		
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015		
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2015		
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009		
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017		
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013		
UNIFORM STATEWIDE BUILDING CODE	КВС	2018		







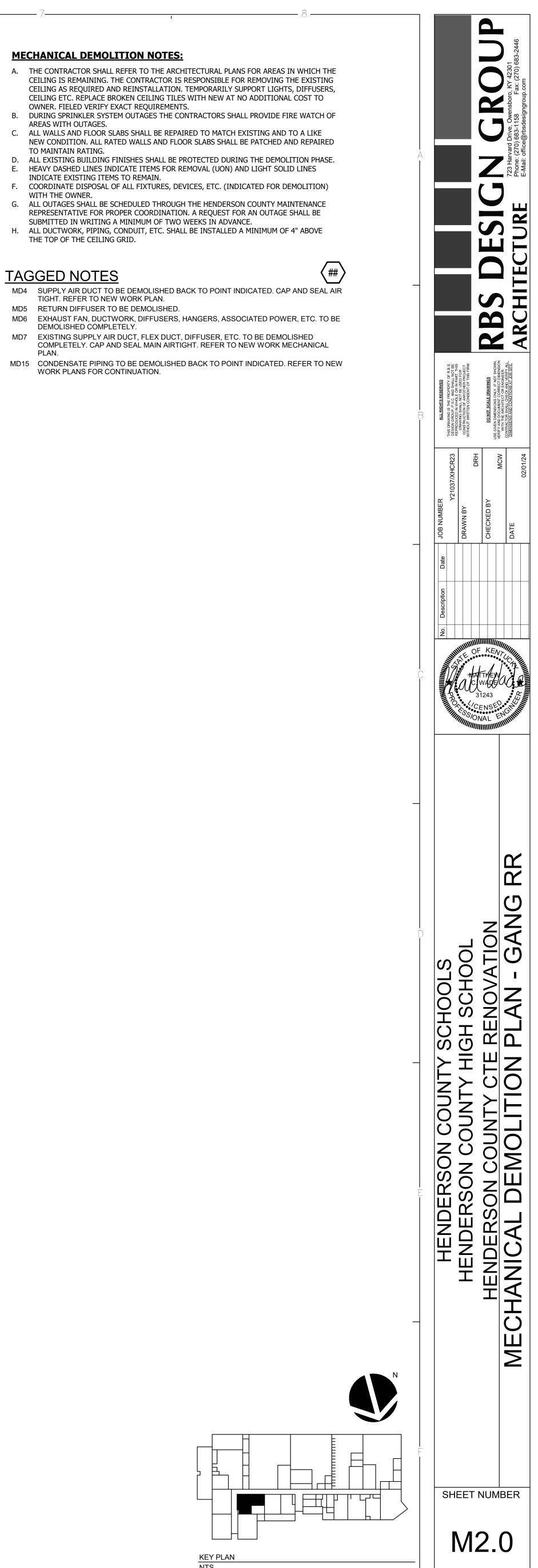


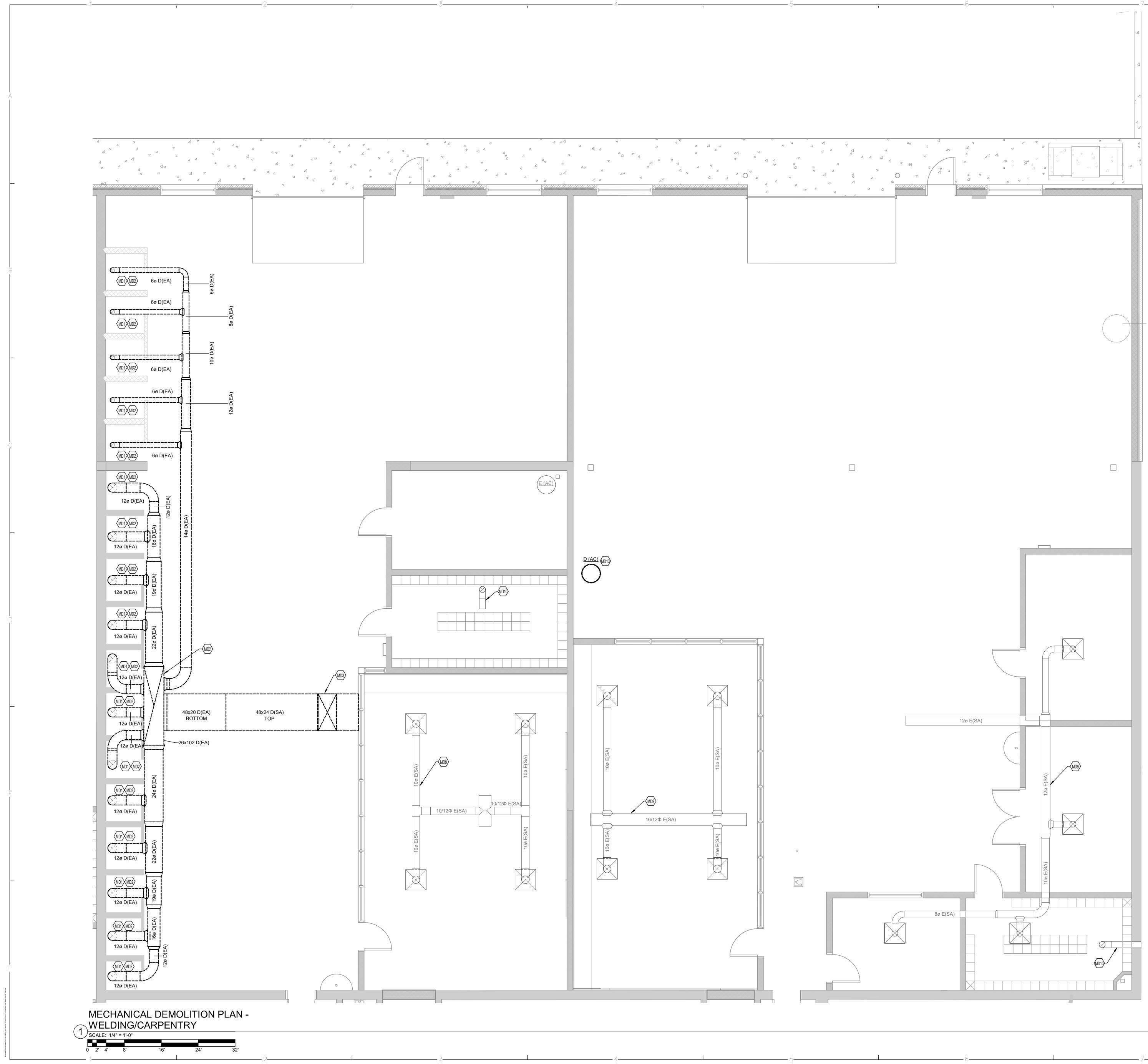


MECHANICAL DEMOLITION NOTES:

- A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.
- B. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
- C. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- D. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE. E. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES
- INDICATE EXISTING ITEMS TO REMAIN. F. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
- G. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE HENDERSON COUNTY MAINTENANCE REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE
- SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE. H. ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID.

- MD4 SUPPLY AIR DUCT TO BE DEMOLISHED BACK TO POINT INDICATED. CAP AND SEAL AIR TIGHT. REFER TO NEW WORK PLAN. MD5 RETURN DIFFUSER TO BE DEMOLISHED.
- MD6 EXHAUST FAN, DUCTWORK, DIFFUSERS, HANGERS, ASSOCIATED POWER, ETC. TO BE DEMOLISHED COMPLETELY. MD7 EXISTING SUPPLY AIR DUCT, FLEX DUCT, DIFFUSER, ETC. TO BE DEMOLISHED
- PLAN.

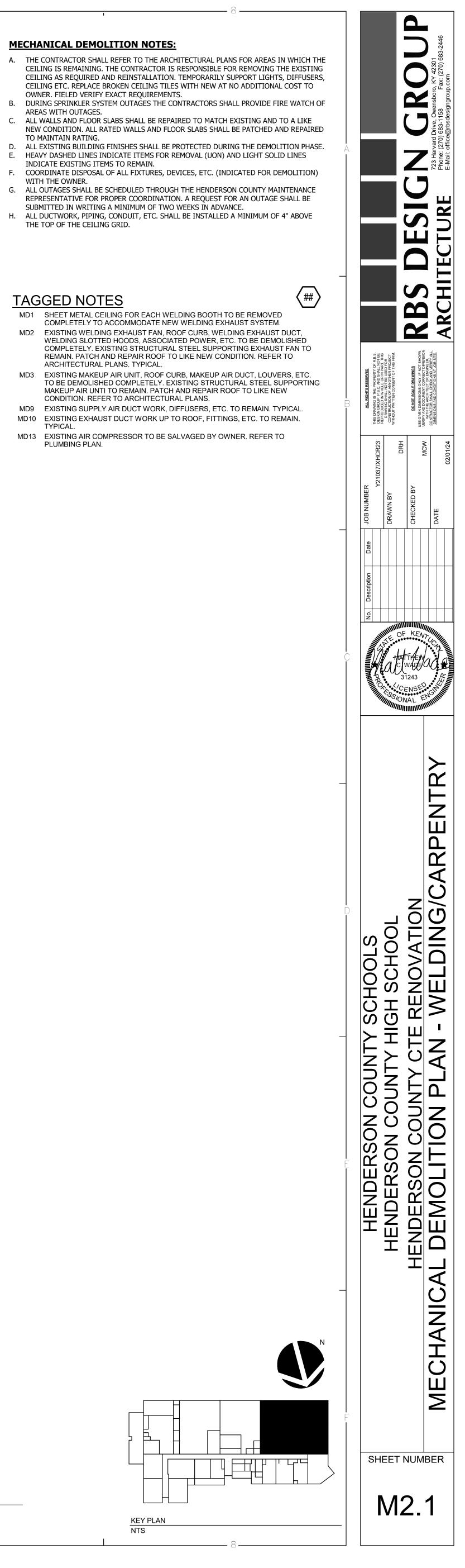


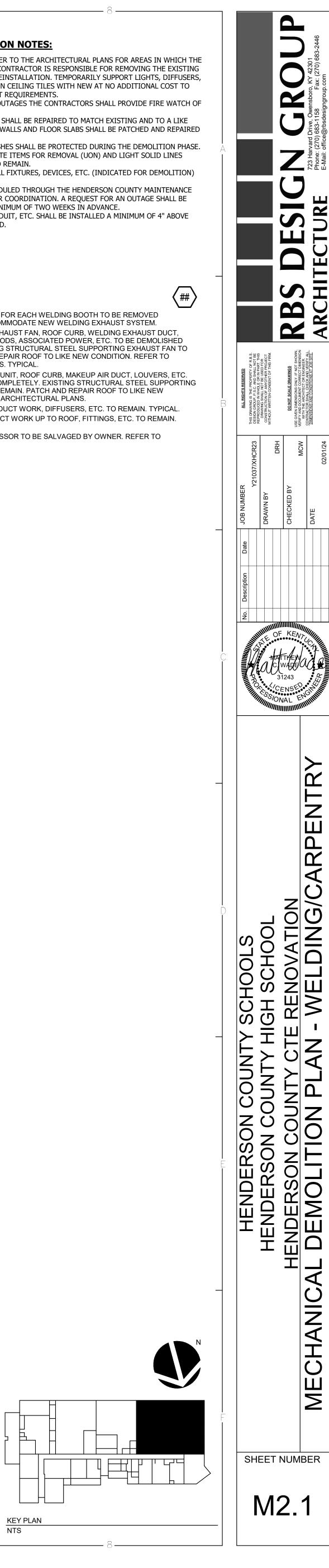


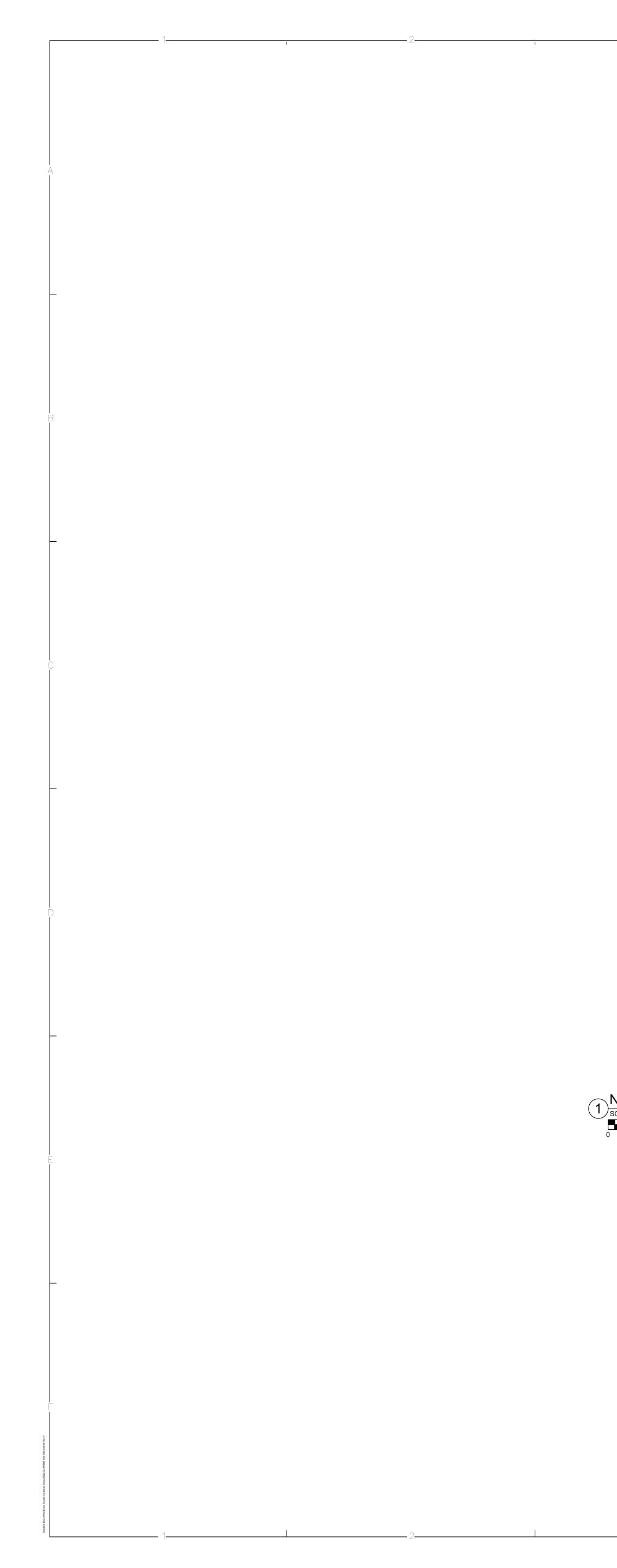
### **MECHANICAL DEMOLITION NOTES:**

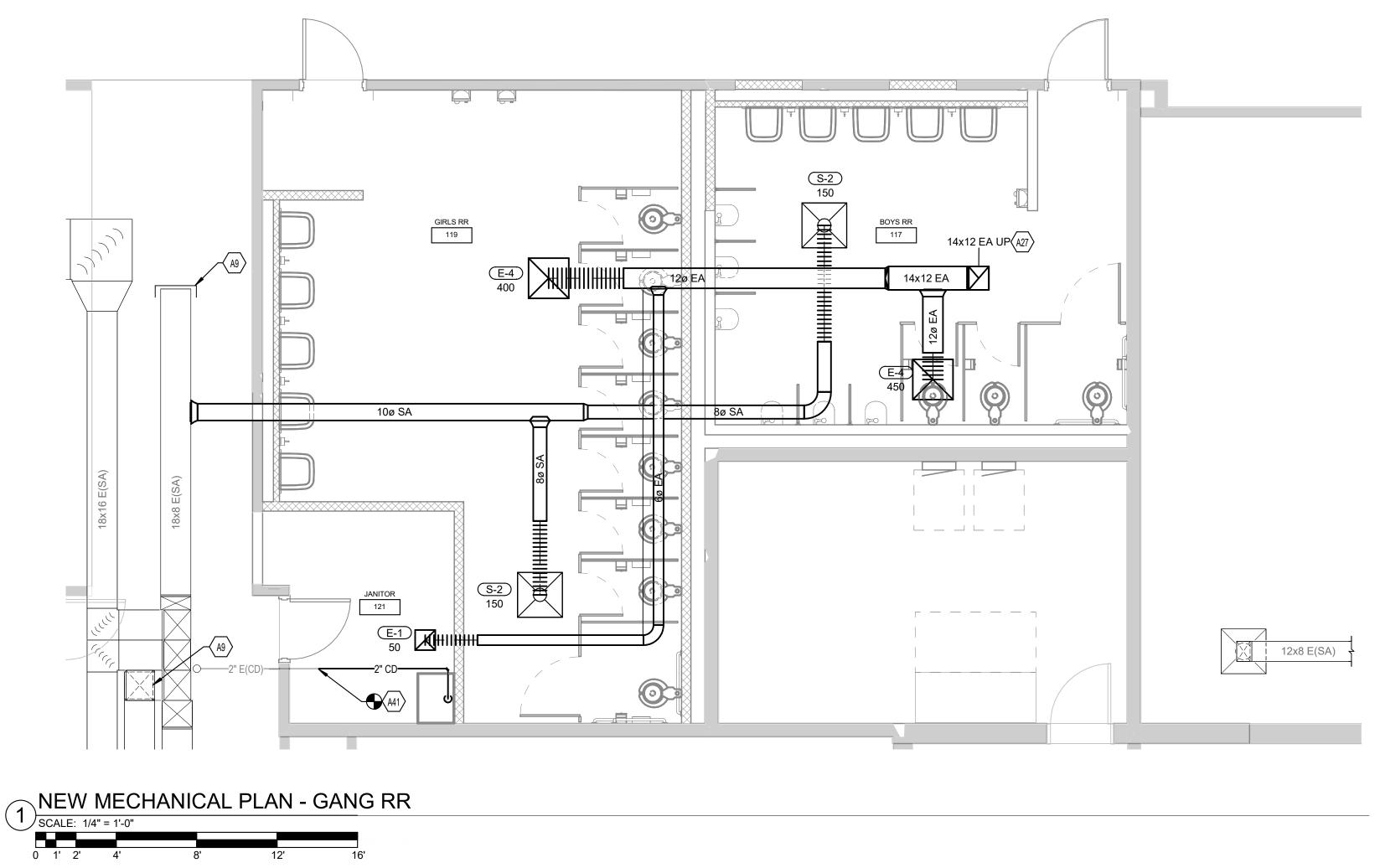
- AREAS WITH OUTAGES.
- TO MAINTAIN RATING.
- INDICATE EXISTING ITEMS TO REMAIN.
- WITH THE OWNER.

MD1	SHEET METAL CEILING FOR EACH WELDING BOOTH T COMPLETELY TO ACCOMMODATE NEW WELDING EXH
MD2	EXISTING WELDING EXHAUST FAN, ROOF CURB, WEL WELDING SLOTTED HOODS, ASSOCIATED POWER, ET COMPLETELY. EXISTING STRUCTURAL STEEL SUPPO REMAIN. PATCH AND REPAIR ROOF TO LIKE NEW COI ARCHITECTURAL PLANS. TYPICAL.
MD3	EXISTING MAKEUP AIR UNIT, ROOF CURB, MAKEUP A TO BE DEMOLISHED COMPLETELY. EXISTING STRUCT MAKEUP AIR UNTI TO REMAIN. PATCH AND REPAIR RO CONDITION. REFER TO ARCHITECTURAL PLANS.
MD9	EXISTING SUPPLY AIR DUCT WORK, DIFFUSERS, ETC
MD10	EXISTING EXHAUST DUCT WORK UP TO ROOF, FITTIN TYPICAL.







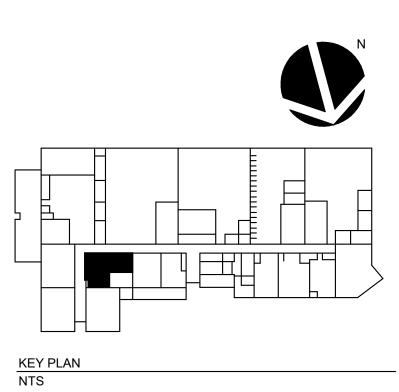


R,G,D RUNOUT SCHEDULE				
MARK	DUCT BRANCH SIZE			
E-1	6"			
E-4	12"			
R-2	8"			
R-4	12"			
S-2	8"			
S-3	10"			
S-4	SEE DWGS			
S-5	SEE DWGS			

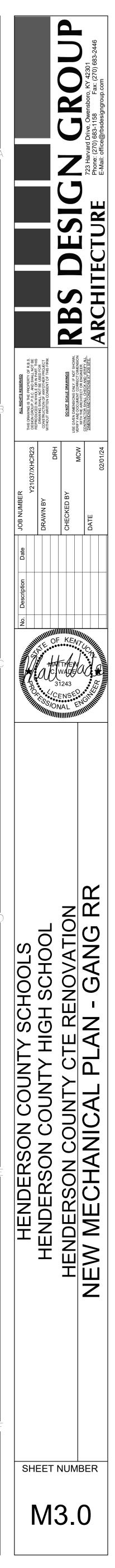
### **GENERAL HVAC DESIGN NOTES:**

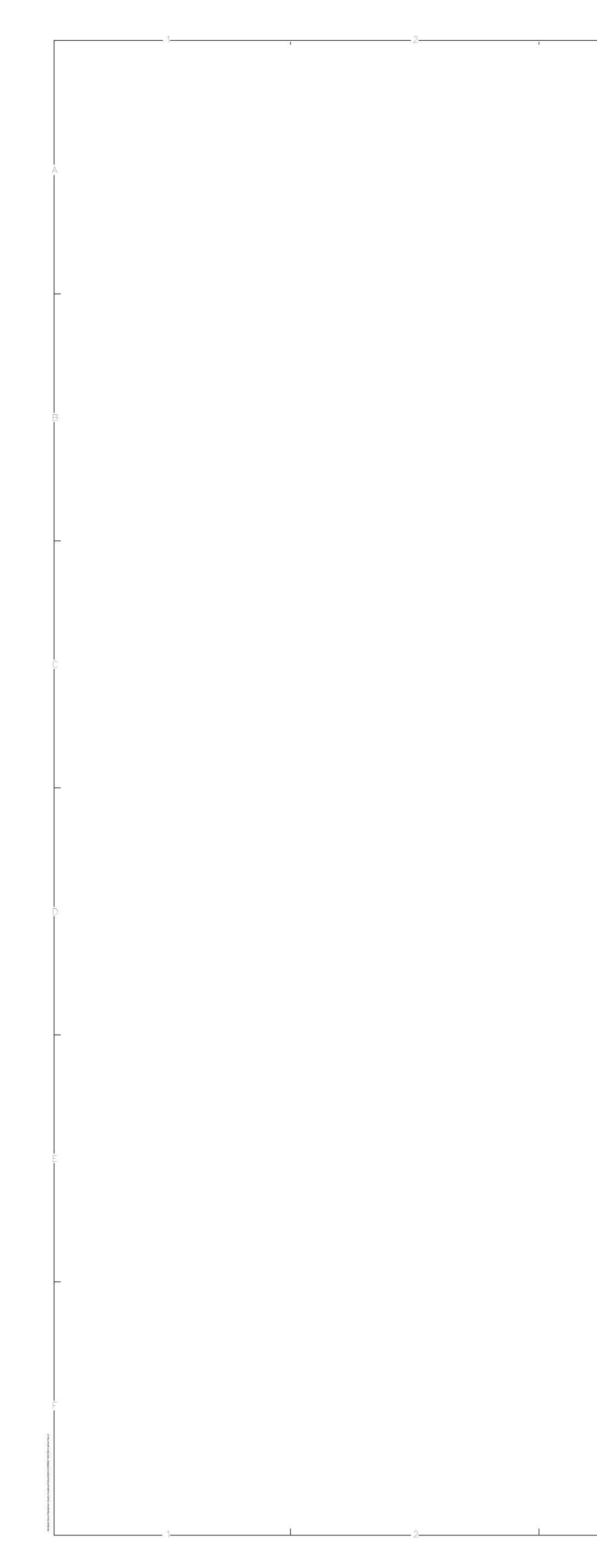
- A. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL MANUAL BALANCING DAMPERS IN THE DUCTWORK PER RUNOUT DETAIL FOR ALL GRILLES, REGISTERS, AND DIFFUSERS WHICH LIST A CFM. IN ALL CASES DAMPERS ARE TO BE INSTALLED IN AN ACCESSIBLE LOCATION.
- B. ELECTRICAL PANELS SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS. NO DUCT OR PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS. C. REFER TO ARCHITECTURAL PLANS FOR ALL RATED WALLS. COORDINATE REQUIRED FIRESTOPPING ACCORDINGLY.

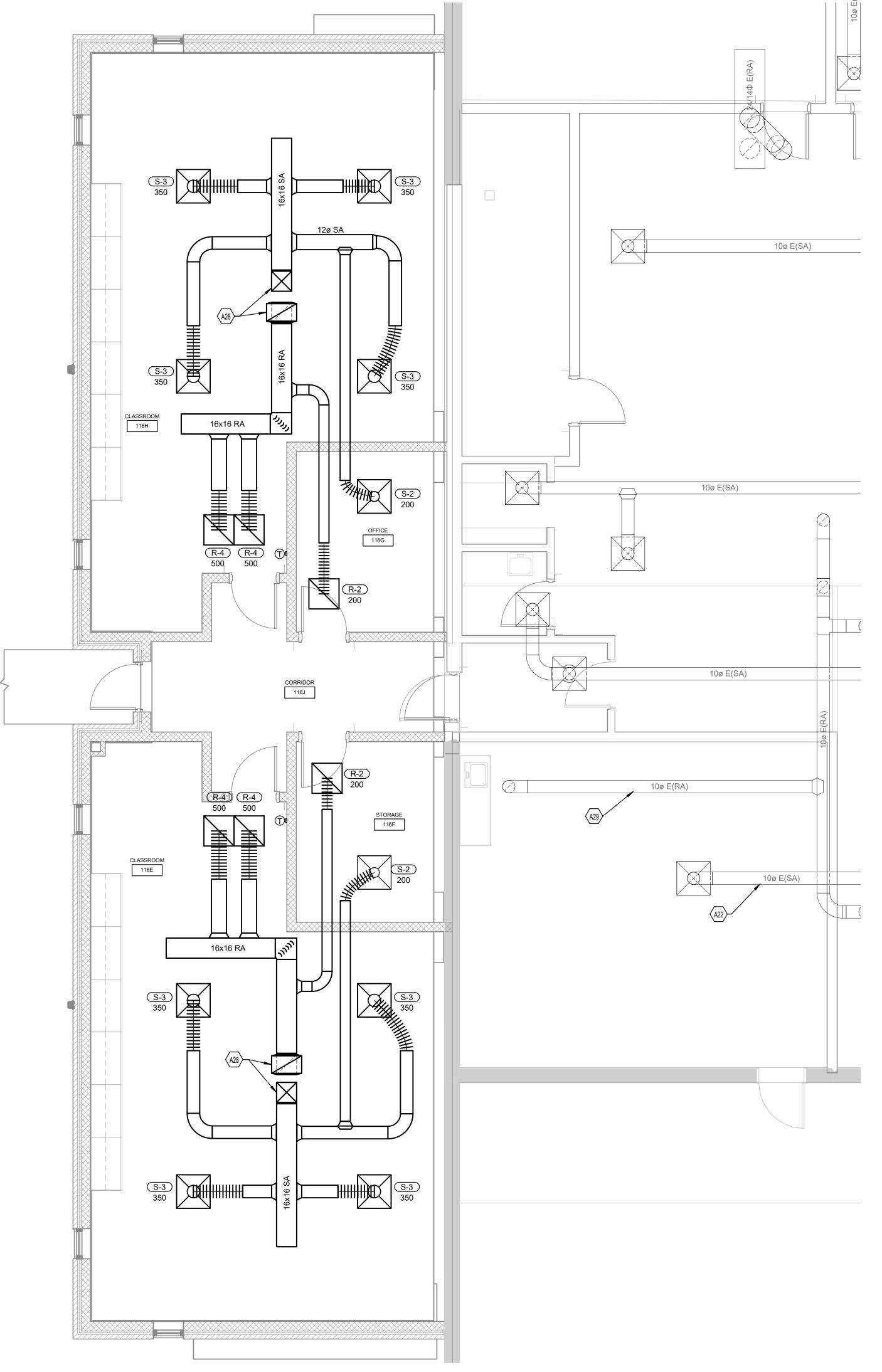
- A9 EXISTING SUPPLY AIR DUCT TO BE CAPPED AT POINT INDICATED. REFER TO MECHANICAL DEMOLITION PLAN. A27 EXHAUST AIR DUCT UP THROUGH ROOF. REUSE EXISTING ROOF PENETRATION. REFER TO MECHANICAL ROOF PLAN. TRANSITION
- AS REQUIRED TO FAN INLET. A41 CONDENSATE PIPING TO BE RECONNECTED AT POINT INDICATED. CONDENSATE PIPING TO DRAIN INTO MOP SINK.



 $\langle \# \rangle$ 







 NEW MECHANICAL PLAN - CTE ADDITION

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

 0
 1'
 2'
 4'
 8'
 12'
 16'

R,G,D RUNOUT SCHEDULE			
MARK	DUCT BRANCH SIZE		
E-1	6"		
E-4	12"		
R-2	8"		
R-4	12"		
S-2	8"		
S-3	10"		
S-4	SEE DWGS		
S-5	SEE DWGS		

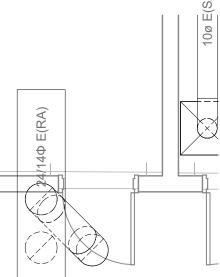
### **GENERAL HVAC DESIGN NOTES:**

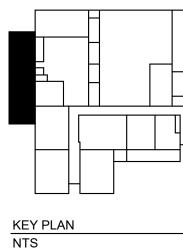
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- NO DUCT OR PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS. C. REFER TO ARCHITECTURAL PLANS FOR ALL RATED WALLS. COORDINATE REQUIRED FIRESTOPPING ACCORDINGLY.

### TAGGED NOTES

TYPICAL.

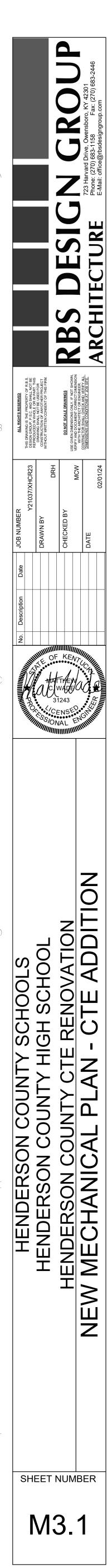
- A22 EXISTING SUPPLY AIR DUCT WORK, DIFFUSERS, ETC. TO REMAIN. TYPICAL.
- A28 TRANSITION SUPPLY/RETURN AIR DUCT UP AS REQUIRED THROUGH ROOF TO ROOFTOP UNIT OPENING. REFER TO ROOFTOP UNIT MANUFACTURERS REQUIRMENTS. A29 EXISTING RETURN AIR DUCT WORK, DIFFUSERS, ETC. TO REMAIN.

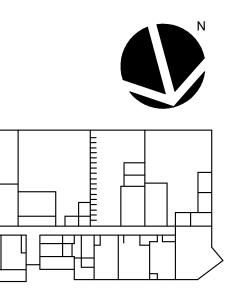


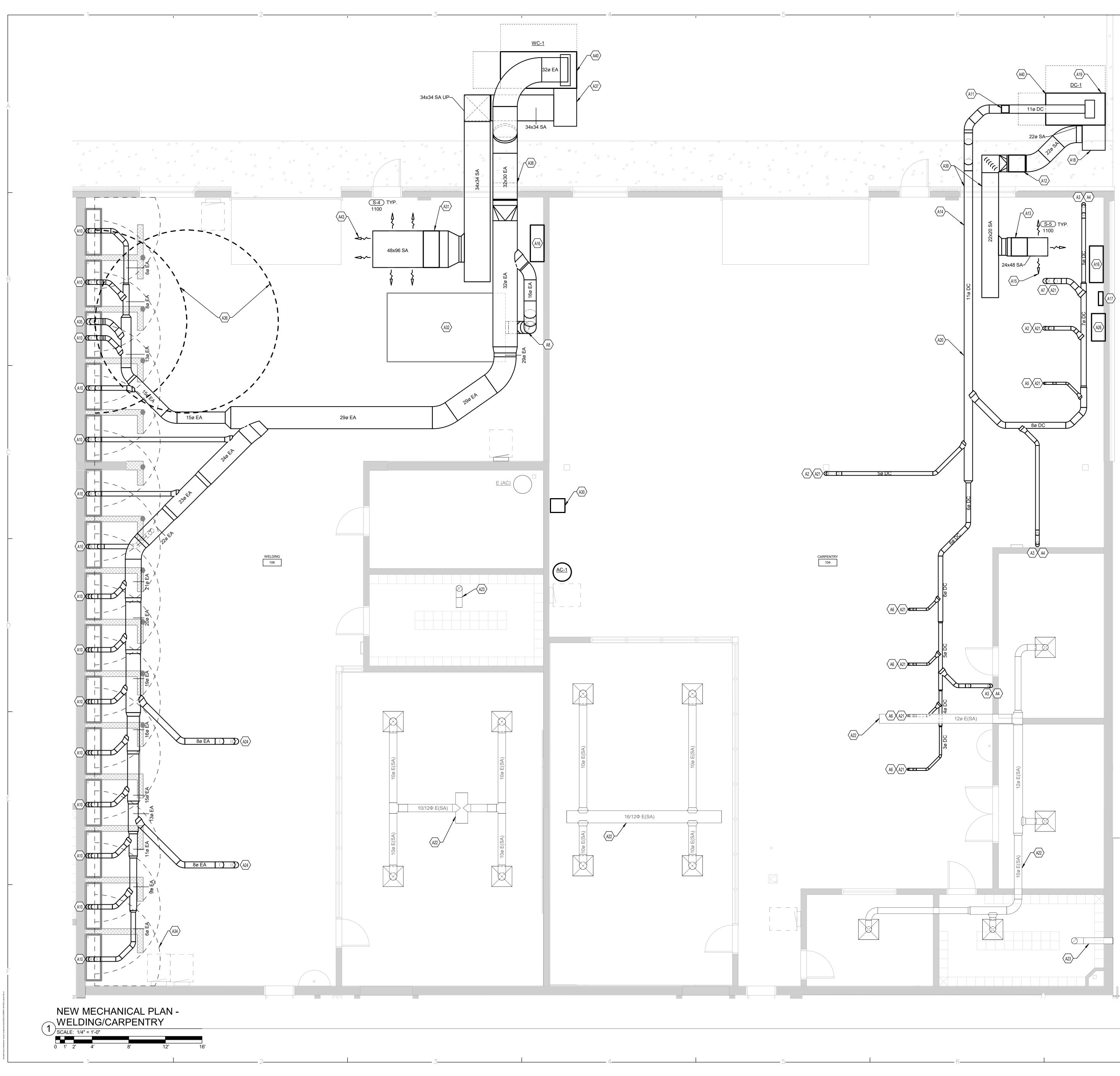




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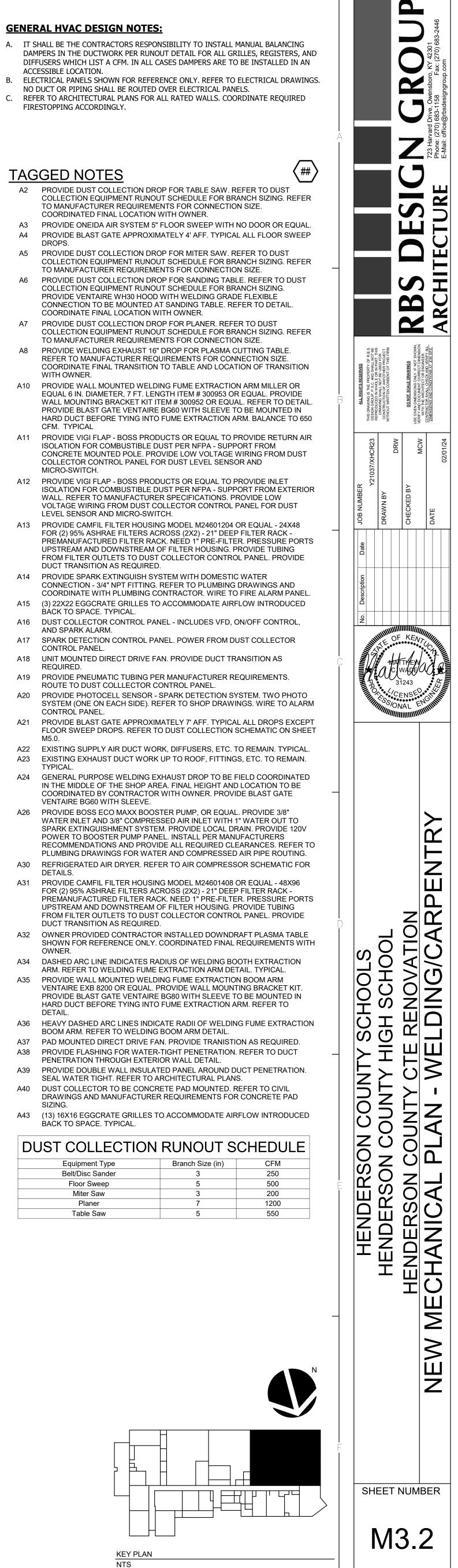


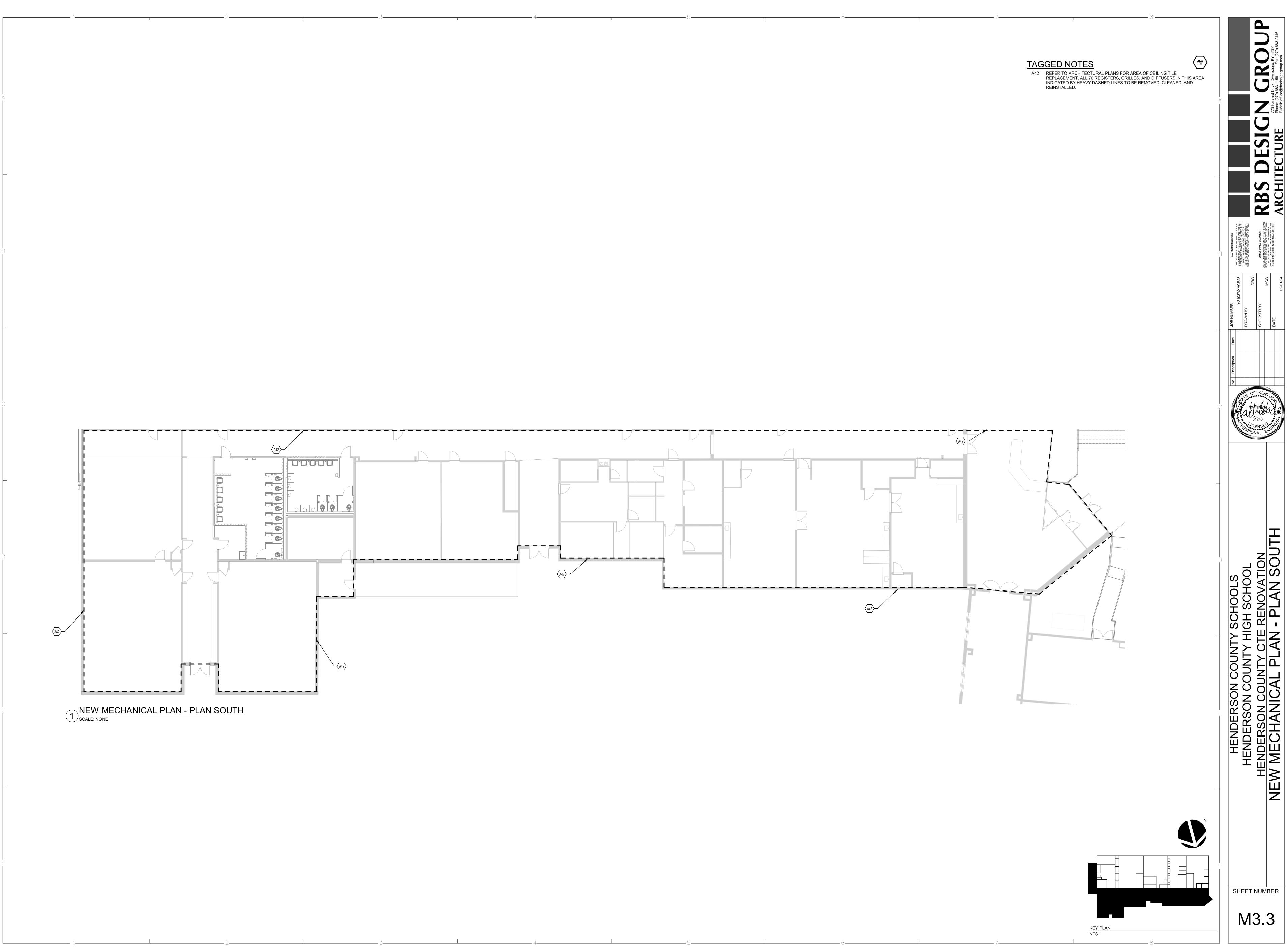


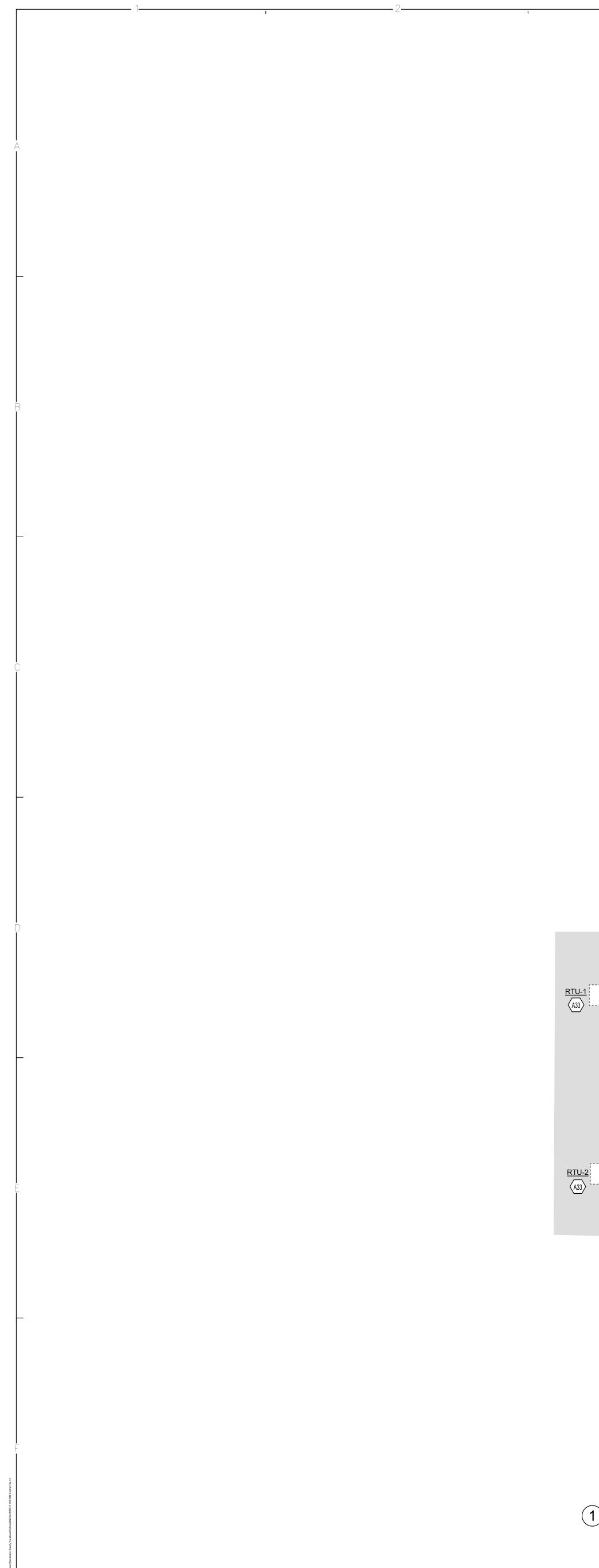
### ACCESSIBLE LOCATION. NO DUCT OR PIPING SHALL BE ROUTED OVER ELECTRICAL PANELS. C. REFER TO ARCHITECTURAL PLANS FOR ALL RATED WALLS. COORDINATE REQUIRED FIRESTOPPING ACCORDINGLY. TAGGED NOTES A2 PROVIDE DUST COLLECTION DROP FOR TABLE SAW. REFER TO DUST TO MANUFACTURER REQUIREMENTS FOR CONNECTION SIZE. COORDINATED FINAL LOCATION WITH OWNER. A3 PROVIDE ONEIDA AIR SYSTEM 5" FLOOR SWEEP WITH NO DOOR OR EQUAL. A4 DROPS. A5 PROVIDE DUST COLLECTION DROP FOR MITER SAW. REFER TO DUST TO MANUFACTURER REQUIREMENTS FOR CONNECTION SIZE. A6 PROVIDE DUST COLLECTION DROP FOR SANDING TABLE. REFER TO DUST COLLECTION EQUIPMENT RUNOUT SCHEDULE FOR BRANCH SIZING. PROVIDE VENTAIRE WH30 HOOD WITH WELDING GRADE FLEXIBLE COORDINATE FINAL LOCATION WITH OWNER. A7 PROVIDE DUST COLLECTION DROP FOR PLANER. REFER TO DUST TO MANUFACTURER REQUIREMENTS FOR CONNECTION SIZE. A8 PROVIDE WELDING EXHAUST 16" DROP FOR PLASMA CUTTING TABLE. REFER TO MANUFACTURER REQUIREMENTS FOR CONNECTION SIZE. WITH OWNER. A10 PROVIDE WALL MOUNTED WELDING FUME EXTRACTION ARM MILLER OR CFM. TYPICAL A11 PROVIDE VIGI FLAP - BOSS PRODUCTS OR EQUAL TO PROVIDE RETURN AIR ISOLATION FOR COMBUSTIBLE DUST PER NFPA - SUPPORT FROM COLLECTOR CONTROL PANEL FOR DUST LEVEL SENSOR AND MICRO-SWITCH. A12 PROVIDE VIGI FLAP - BOSS PRODUCTS OR EQUAL TO PROVIDE INLET WALL. REFER TO MANUFACTURER SPECIFICATIONS. PROVIDE LOW LEVEL SENSOR AND MICRO-SWITCH. A13 PROVIDE CAMFIL FILTER HOUSING MODEL M24601204 OR EQUAL - 24X48 DUCT TRANSITION AS REQUIRED. A14 PROVIDE SPARK EXTINGUISH SYSTEM WITH DOMESTIC WATER A15 (3) 22X22 EGGCRATE GRILLES TO ACCOMMODATE AIRFLOW INTRODUCED BACK TO SPACE. TYPICAL. A16 DUST COLLECTOR CONTROL PANEL - INCLUDES VFD, ON/OFF CONTROL, AND SPARK ALARM. A17 SPARK DETECTION CONTROL PANEL. POWER FROM DUST COLLECTOR CONTROL PANEL. A18 UNIT MOUNTED DIRECT DRIVE FAN. PROVIDE DUCT TRANSITION AS REQUIRED. A19 PROVIDE PNEUMATIC TUBING PER MANUFACTURER REQUIREMENTS. ROUTE TO DUST COLLLECTOR CONTROL PANEL. A20 PROVIDE PHOTOCELL SENSOR - SPARK DETECTION SYSTEM. TWO PHOTO CONTROL PANEL. A21 PROVIDE BLAST GATE APPROXIMATELY 7' AFF. TYPICAL ALL DROPS EXCEPT M5.0. A22 EXISTING SUPPLY AIR DUCT WORK, DIFFUSERS, ETC. TO REMAIN. TYPICAL. A23 EXISTING EXHAUST DUCT WORK UP TO ROOF, FITTINGS, ETC. TO REMAIN. TYPICAL. A24 GENERAL PURPOSE WELDING EXHAUST DROP TO BE FIELD COORDINATED VENTAIRE BG60 WITH SLEEVE. A26 PROVIDE BOSS ECO MAXX BOOSTER PUMP, OR EQUAL. PROVIDE 3/8" POWER TO BOOSTER PUMP PANEL. INSTALL PER MANUFACTURERS A30 REFRIGERATED AIR DRYER. REFER TO AIR COMPRESSOR SCHEMATIC FOR DETAILS. A31 PROVIDE CAMFIL FILTER HOUSING MODEL M24601408 OR EQUAL - 48X96 DUCT TRANSITION AS REQUIRED. A32 OWNER PROVIDED CONTRACTOR INSTALLED DOWNDRAFT PLASMA TABLE OWNER. A34 DASHED ARC LINE INDICATES RADIUS OF WELDING BOOTH EXTRACTION ARM. REFER TO WELDING FUME EXTRACTION ARM DETAIL. TYPICAL. A35 PROVIDE WALL MOUNTED WELDING FUME EXTRACTION BOOM ARM DETAIL. A36 HEAVY DASHED ARC LINES INDICATE RADII OF WELDING FUME EXTRACTION BOOM ARM. REFER TO WELDING BOOM ARM DETAIL. A37 PAD MOUNTED DIRECT DRIVE FAN. PROVIDE TRANISTION AS REQUIRED. A38 PROVIDE FLASHING FOR WATER-TIGHT PENETRATION. REFER TO DUCT PENETRATION THROUGH EXTERIOR WALL DETAIL. A39 PROVIDE DOUBLE WALL INSULATED PANEL AROUND DUCT PENETRATION. SEAL WATER TIGHT. REFER TO ARCHITECTURAL PLANS. A40 DUST COLLECTOR TO BE CONCRETE PAD MOUNTED. REFER TO CIVIL SIZING A43 (13) 16X16 EGGCRATE GRILLES TO ACCOMMODATE AIRFLOW INTRODUCED BACK TO SPACE. TYPICAL. DUST COLLECTION RUNOUT SCHEDULE Equipment Type Belt/Disc Sander Floor Sweep Miter Saw

Planer

Table Saw







E RTU (MDB)	E RTU (MD8)	E RTU(MD8)	
ERTUMB	E RTU (MDB)		<u>RTU</u> (MD
ERTU (MDB)	J J J J J J J J J J J J J J J J J J J	ERTU	
			1

# 2 MECHANICAL DEMOLITION ROOF PLAN SCALE: 1/16" = 1'-0"

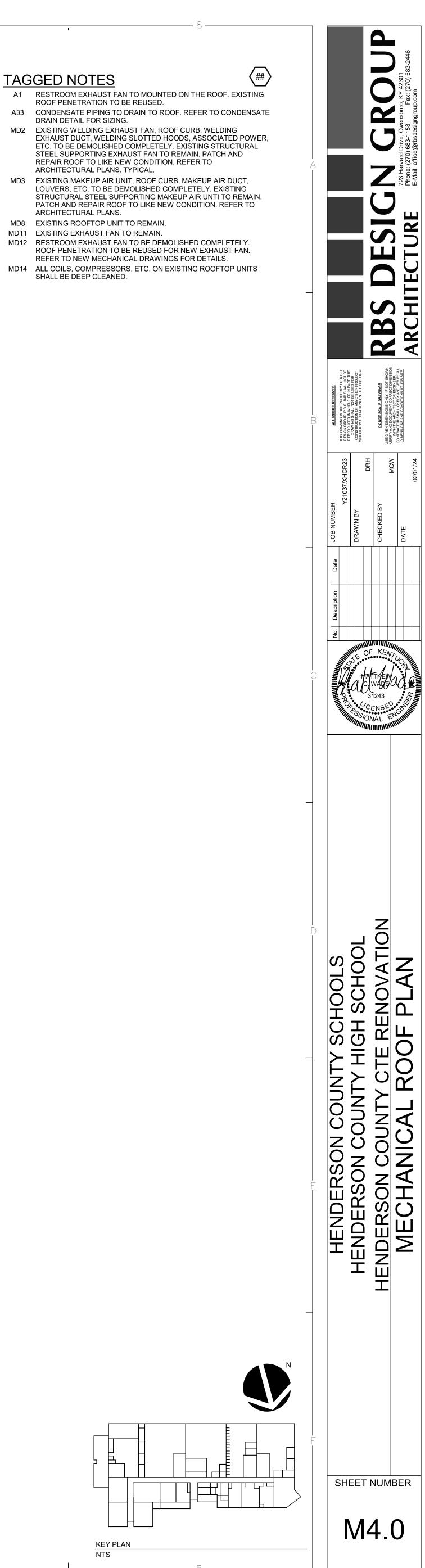
	0 4' 8' 16' 32'	48' 64'			
r [],	E RTU MDB		E RTU (MD8)		E RTU MD8
	E RTU MDB		E RTU MD8		
	<u>E RTL</u>	<u>I (MD8</u> )	$\underline{EF-1}_{\Box}$	<u>E RTU(MD8</u> )	
1 SCALE: 0 4' 8'	/ MECHANICAL ROOF F 1/16" = 1'-0" 16' 32' 48'	<b>PLAN</b> 			

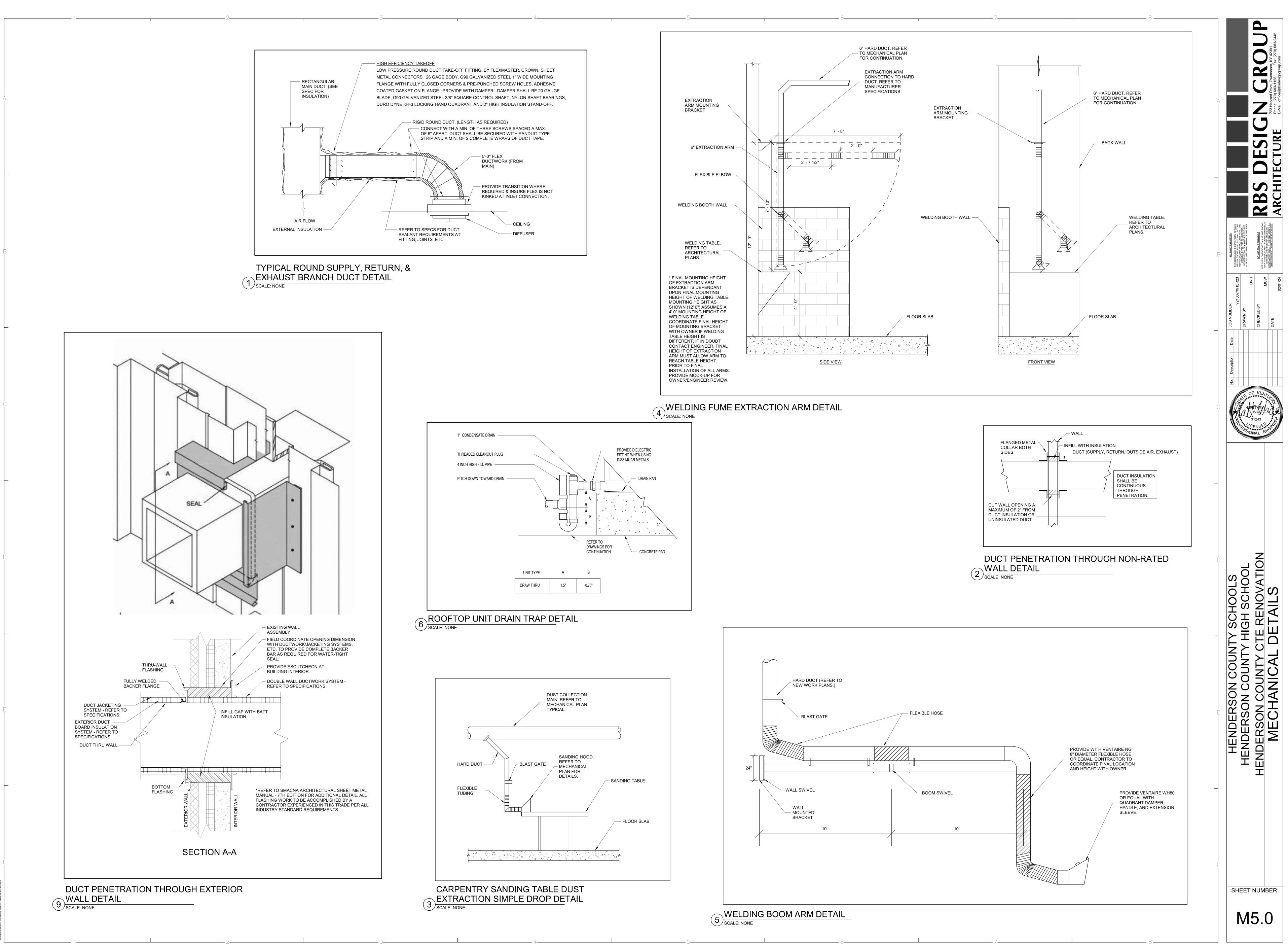
E RTU MD8 MD14		E RTU (MD8 (MD14)	
MD2 EEF (ND1)		E RTU MD8 MD14	
	<u>E RTU(MD8</u> )	E RTU MD8	

TAGGED NOTES		
A1	RESTROOM EXHAUST FAN TO MO ROOF PENETRATION TO BE REUS	
∆33	CONDENSATE PIPING TO DRAIN T	

	DRAIN DETAIL FOR SIZING.
MD2	EXISTING WELDING EXHAUST FAN, ROOF CUR EXHAUST DUCT, WELDING SLOTTED HOODS, A ETC. TO BE DEMOLISHED COMPLETELY. EXIST STEEL SUPPORTING EXHAUST FAN TO REMAI REPAIR ROOF TO LIKE NEW CONDITION. REFE ARCHITECTURAL PLANS. TYPICAL.
MD3	EXISTING MAKEUP AIR UNIT, ROOF CURB, MAI LOUVERS, ETC. TO BE DEMOLISHED COMPLE STRUCTURAL STEEL SUPPORTING MAKEUP A PATCH AND REPAIR ROOF TO LIKE NEW CONI ARCHITECTURAL PLANS.
MD8	EXISTING ROOFTOP UNIT TO REMAIN.
MD11	EXISTING EXHAUST FAN TO REMAIN.
MD12	RESTROOM EXHAUST FAN TO BE DEMOLISHE ROOF PENETRATION TO BE REUSED FOR NEV REFER TO NEW MECHANICAL DRAWINGS FOR
MD14	ALL COILS, COMPRESSORS, ETC. ON EXISTING SHALL BE DEEP CLEANED.

E RTU MDB		8>
	E RTU	MD8
		E EF (UDI)





								EXHA	US
		MARK EF-1	MANUFACTURER TWIN CITY	MODEL # DCRD130BE	SERVICE RESTROOMS	TYPE CENTRIFUGAL	AIRFLOW (CFM) 900	E.S.P. 0.25	
	A	2. PROVIDE /	GALVANIZED BIRD S ALUMINUM BACKDR	AFT DAMPER.					
		3. PROVIDE <sup>2</sup> 4. GREENHE	18" TALL ROOF CURI CK AND COOK ARE	B, CANTED & G/ ACCEPTABLE.	ALVANIZED W/ If	NSULATION.			
	B								
	Ċ								
	_								
	_								
HCR23 Central File.nt									
ational School/2023.CU RRENT XI									
desk Docs//Henderson County Voc									
Auto			1		_			1	

				El	ECTRICAL DATA	١		
DRIVE	RPM	WEIGHT (LB)	FAN HP	VOLTAGE	PHASE	HZ	SONES	REMARKS
DIRECT	883	108	0.75	208 V	1	60	7.5	ALL

			REGISTERS, GR	ILLES, AND	DIFFUS	SERS					
					DUCT INLET				NOISE	THROW	
MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	CRITERIA	PATTERN	REMARKS
E-1	TITUS	45F	ALUMINUM 1/2" EGG CRATE - SIGHT PROOF	24x24	6"	6"Ø	100	0.05	25	-	1,3
E-4	TITUS	45F	ALUMINUM 1/2" EGG CRATE - SIGHT PROOF	24x24	12"	12"Ø	600	0.05	25	-	1,3
R-2	TITUS	45F	ALUMINUM 1/2" EGG CRATE - SIGHT PROOF	24x24	8"	8"Ø	225	0.05	25	-	1,3
R-4	TITUS	45F	ALUMINUM 1/2" EGG CRATE - SIGHT PROOF	24x24	12"	12"Ø	600	0.05	25	-	1,3
S-2	TITUS	TMSA-AA SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24x24	8"	8"Ø	225	0.05	25	4-WAY	1,3
S-3	TITUS	TMSA-AA SERIES	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24x24	10"	10"Ø	350	0.05	25	4-WAY	1,3
S-4	TITUS	45F	ALUMINUM 1/2" EGG CRATE - SIGHT PROOF	16x16	SEE DWGS	SEE DWGS	1100	0.15	39	-	ALL
S-5	TITUS	45F	ALUMINUM 1/2" EGG CRATE - SIGHT PROOF	22x22	SEE DWGS	SEE DWGS	1100	0.15	27	-	ALL

# REMARKS: 1. COLOR BY ARCHITECT. 2. DIFFUSER TO BE DUCT MOUNTED. 3. PRICE AND METALAIRE ARE ACCEPTABLE.

				PHYSI	CAL DATA								SUPPLY FA	N						
IARK	MANUFACTURER	MODEL#	WIDTH (IN.)	LENGTH (IN.	) HEIGHT (IN.)	WEIGHT (LBS)	TOTAL SA CFM	MIN. OA CFM	# OF FA	ANS FAN RPM	E.S.P. (" WC)	T.S.P. (" W	C) (PER FAN)		R VOLT.	PH.	MCA	MOCP	OP. FREQ.	REMARKS
TU-1	TRANE	YHC048E3RHA	54	89	41	976	1600	352	1	880	0.50	0.73	1.00	0.53	208 V	3	24 A	35	60	ALL
RTU-2	TRANE	YHC048E3RHA	54	89	41	976	1600	349	1	880	0.50	0.73	1.00	0.53	208 V	3	24 A	35	60	ALL
		· · · · · · · · · · · · · · · · · · ·				COOLIN	G PERFORMA	NCE						GAS HE	ATING					
					DX COI	L				HOT GAS	S REHEAT COIL	_	INPUT	OUTPUT						
			SENSIBLE										HEATING CAPACITY			MIN PRESSURE				
		. ,	· /	( )	( )	( )	( )	. ,		,		JNIT LAT (F)	· · ·	( )	· · /	( )				
											12	72								
MARK RTU-1 RTU-2	REFRIGERANT <sup>-</sup> R-410A R-410A		(MBH) 36.87 36.87	EAT DB (°F) 77.00 77.00	EAT WB (°F) 64.00 64.00	LAT DB (°F) 57.21 57.21	LAT WB (°F) 54.42 54.42	(FPM) 94.10 94.10	EER 11.6 11.6	(MBH) 31.26 31.26	72	UNIT LAT (°F) 72 72	(MBH) 120.0 120.0	(MBH) 96.00 96.00	(PSI) 14.00 14.00	(PSI) 6.00 6.00				

REMARKS:
1. ECONOMIZER TO BE FACTORY INSTALLED ON THE UNIT WITH DRY-BULB ECONOMIZER CONTROL.
2. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.
3. HAIL GUARD TO BE FACTORY INSTALLED.
4. PROVIDE WITH SINGLE POINT POWER AND FACTORY MOUNTED DISCONNECT.
5. PROVIDE INSULATED ROOF CURB.
6. PROVIDE WITH GAS HEATING.
7. PROVIDE WITH (1) SINGLE STAGE COMPRESSOR AND SEER RATING OF 14.2.
8. PROVIDE WITH PLEATED MERV13 FILTERS.
9. CARRIER AND LENNOX ARE ACCEPTABLE.

								0011							
						DIMENSIONS				E	ELECTRICAL DAT	ΓA	FIL	TER	
MARK M	ANUFACTURER	MODEL #	SERVICE	TYPE	WIDTH	DEPTH	HEIGHT	CFM	ESP	VOLTAGE	PHASE	HP	COUNT	AREA	REMAR
DC-1	DONALDSON - TORIT	DFE 3-6	CARPENTRY LAB	DOWN FLOW WITH CARTRIDGE FILTERS	48"	75"	130"	3250	19"	208 V	3	25	6	1524	ALL
EMARKS	_											1			
		NGI E HOPPER WIT	H HOPPER ACCESS PANEL A	ND NFPA RATED SEALED DRUM KIT.											
	E WITH QTY (1) 5														
	· · · ·		ACTURER REQUIRED CLEAR	ANCES.											
I. PROVID	E WITH SPARK D	ETECTION SYSTEM	I. SYSTEM SHALL DETECT AN	D EXTINGUISH (BOSS PRODUTS EM-F	CS-PWE OR E	QUAL). THE DE	TECT AND QUE	NCH SYSTE	EM REQUIRES	S ~					
18-25 FT	OF STRAIGHT RU	JN BETWEEN THE I	INLET ISOLATION VALVE (NR\	//VIGIFLAP) AND THE FIRST BRANCH I	N THE DUCTW	ORK. THE DETE	ECT AND EXTIN	GUISH SYS	TEM SHALL B	E					
COORDI	NATED WITH THE	E PLUMBING CONTR	RACTOR (1.25" WATER CONN	ECTION - PROVIDE 16 GPM @ 59 PSI T	O VALVE). REF	ER TO SPECIFI	ICATIONS.								
				SEMBLY. PROVIDE MERV14 PREFILTE		ASHRAE FINAL I	FILTERS. PROV	IDE WEATH	IER CAP AND						
				IGH BY 2 FILTERS WIDE (APPROX. 2'X4	4').										
		ON RELIEF DOOR/P								•					
				EQUAL) INCLUDING REQUIRED SENSC	RS AND CONT	ROLS TO COM	PLY WITH NEPA	AND LOCA	AL GUIDELINE	S.					
			OR SHALL BE OF RATING AS C	JULLECTOR.											
	-		TO PER LOCAL AUTHORITY F												
				ROLLER. REFER TO SPECIFICATIONS	TO TOUCH SC					F					
USER IN															
-	-	OUND MOUNTED S	UPPORT BRACKET FOR NO-F	RETURN VALVE.											
		R CONNECTION @													
13. START	UP AND SYSTEM	I VERIFICATION MU	IST BE PERFORMED BY APPR	OVED MANUFACTURER'S FACTORY E	MPLOYED TEC	CHNICIAN. STAF	RT-UP REPORT	SHALL BE	PROVIDED,						
DUCT TF	AVERSE AND FU	ILL UNIT BALANCE	INCLUDED IN REPORT. CONT	RACTOR TECHNICIAN'S WILL NOT BE	ACCEPTED.										
	ABLE TO THE FA														
-		-	MAINTAIN ALL REQUIRED MA	NUFACTURER CLEARANCES.											
	HALL BE UL LIST														
		JM EFFICIENCY TE													
			LET. CONTRACTOR TO PROV	TIDE FLEXIBLE CONNECTION.											
		GROUNDING RING	ACCESS TO FAN INTERIOR.												
			HE BELT DRIVE, FAN BEARING												
	IDE WITH 3/4" DR		LE BEET DIVICE, I AN DEANING												
			JENCO, GREENHECK PENN	I. ACME. COOK. FANTECH. AND NEW		2.									

I. APPROVED MANUFACTURERS: TWIN CITY, JENCO, GREENHECK, PENN, ACME, COOK, FANTECH, AND NEW YORK BLOWER. 15. ACCEPTABLE MANUFACTURERS INCLUDE DONALDSON-TORIT, MAC, AAF, AND CAMCORP.

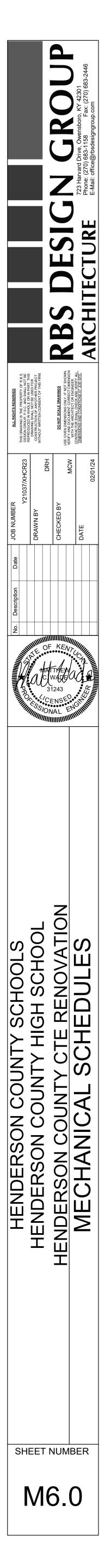
						DIMENSIONS				E	LECTRICAL DAT	A	FILT	FER	
MARK	MANUFACTURER	MODEL #	SERVICE	TYPE	WIDTH	DEPTH	HEIGHT	CFM	ESP	VOLTAGE	PHASE	HP	COUNT	AREA	REMAR
WC-1	DONALDSON - TORIT	DFE 4-16	WELDING LAB	DOWN FLOW WITH CARTRIDGE FILTERS	48"	101"	160"	13500	12"	208 V	3	50	16	4064	ALL
MAN BETV CON PRO PRO PRO WITH FILTE UNIT WITH ELEC CON 0. FUI PRO 1. APF B. FA C. PF D. PF E. PF F. PF G. PF H. PF I. AP	VIDE CONTROL PANE JFACTURER AS THE VEEN THE CONTROL TROL PANEL INSIDE VIDE FACTORY WIRE CTRICAL CONTRACTO VIDE WELDING SHOF VIDE BOLT-ON ACCE VIDE CAMFIL M24601 PHOTOHELIC GAUG ERS HIGH BY 4 FILTEF REQUIRES CLEAN, I PHOTOHELIC GAUG ERS HIGH BY 4 FILTEF REQUIRES CLEAN, I PLUMBING CONTRACTO TRACTOR SHALL MA VIDE OLLECTOR STAF /IDED, DUCT TRANSV PLICABLE TO THE FAI COVIDE GRADE MOUN N SHALL BE UL LISTE COVIDE WITH PREMIL COVIDE WITH SHAFT COVIDE WITH A 3/4" D COVIDE WITH 1" SPRI PROVED MANUFACT	DUST COLLECTOR. PANEL AND THE UN THE BUILDING. D NEMA12 CONTRO D ROVIDE LOO COLLECTOR WITH SS PORT IN FRONT 408 OR EQUAL SAFE E WITH FEEDBACK SWIDE (APPROX. ORY COMPRESSED ORY COMPRESSED ON FOR WC-1: NED EXHAUST FAN ED. MEFFICIENCY TEF GROUNDING RING. S DOOR FOR EASY ER COVER FOR THE RAIN AND PLUG. NG ISOLATION BASE JRERS: TWIN CITY,	PROVIDE SINGLE POINT EL NIT. COORDINATE WITH THE OL ENCLOSURE FOR CONTR CAL DISCONNECT AND FIELD SINGLE HOPPER AND QTY SECTION OF HOPPER. ETY AFTER FILTER HOUSING TO DUST COLLECTOR CON 4'X8'). AIR: 90-100 PSI. AT EACH SO RE THE SOLENOIDS TO THE ACTURER REQUIRED CLEAR VERIFICATION MUST BE PE I REPORT. CONTRACTOR TE I. MAINTAIN ALL REQUIRED I C MOTOR.PROVIDE WITH FL ACCESS TO FAN INTERIOR. E BELT DRIVE, FAN BEARING E.	D WIRING FOR WC-1 FAN MOTOR. COO (1) 55-GALLON DRUM WITH LID AND LA G ASSEMBLY RATED FOR 13,500 CFM. I TROL PANEL. PROVIDE MINIMUM QTY ILENOID. PROVIDE PIPING AND REGUL CONTROL PANEL AS REQUIRED FOR ANCES. RFORMED BY MANUFACTURER'S FAC ECHNICIAN'S WILL NOT BE ACCEPTED MANUFACTURER CLEARANCES. ANGED INLET AND OUTLET. CONTRAC IS AND MOTOR.	ORDINATE WIT TCH KIT FOR I PROVIDE 95% 8, 95% ASHRAI ATOR AS REQ OPERATION. TORY EMPLOY	RICAL CONTRAC FOR EXTERIO H ELECTRICAL DUST COLLECT ASHRAE FILTER E FILTERS. AFT UIRED TO MAK YED TECHNICIA	CTOR SHALL SU R FAN/UNIT WI CONTRACTOR TON. RS WITH MERV ER FILTER ASS E CONNECTION	JPPLY FIELI LL BE INCLU 8 PRE FILT EMBLY SH/ N. COORDIN	D WIRING JDED IN THE ERS. PROVID ALL BE 2 VATE WORK	E					

			1		DIMENSIONS (IN	1)	1	TANK VOLUME	RE330	R								
MARK	MANUFACTURER	MODEL #	SERVICE	WIDTH	HEIGHT	LENGTH	WEIGHT	(GAL)	CFM	MAX PSI	HP	MAX RPM	FLA	MCA	MOCP	VOLTAGE	PHASE	REMA
AC-1	CHAMPION	VR10-12	WELDING/CARPENTRY LAB	38	76	43	895.00	120.0	35	175.00	10	1050	30.8 A	38.5 A	45	208 V	3	AL

PROVIDE WITH FACTORY-MOUNTED DISCONNECT.
 PROVIDE WITH MK-US-75 (OR EQUAL) DRYER. REFER TO FLOOR PLAN FOR LOCATION.
 PROVIDE WITH AIR COOLED AFTERCOOLER.

# CARPENTRY DUST COLLECTOR SCHEDULE

# WELDING EXHAUST COLLECTOR SCHEDULE

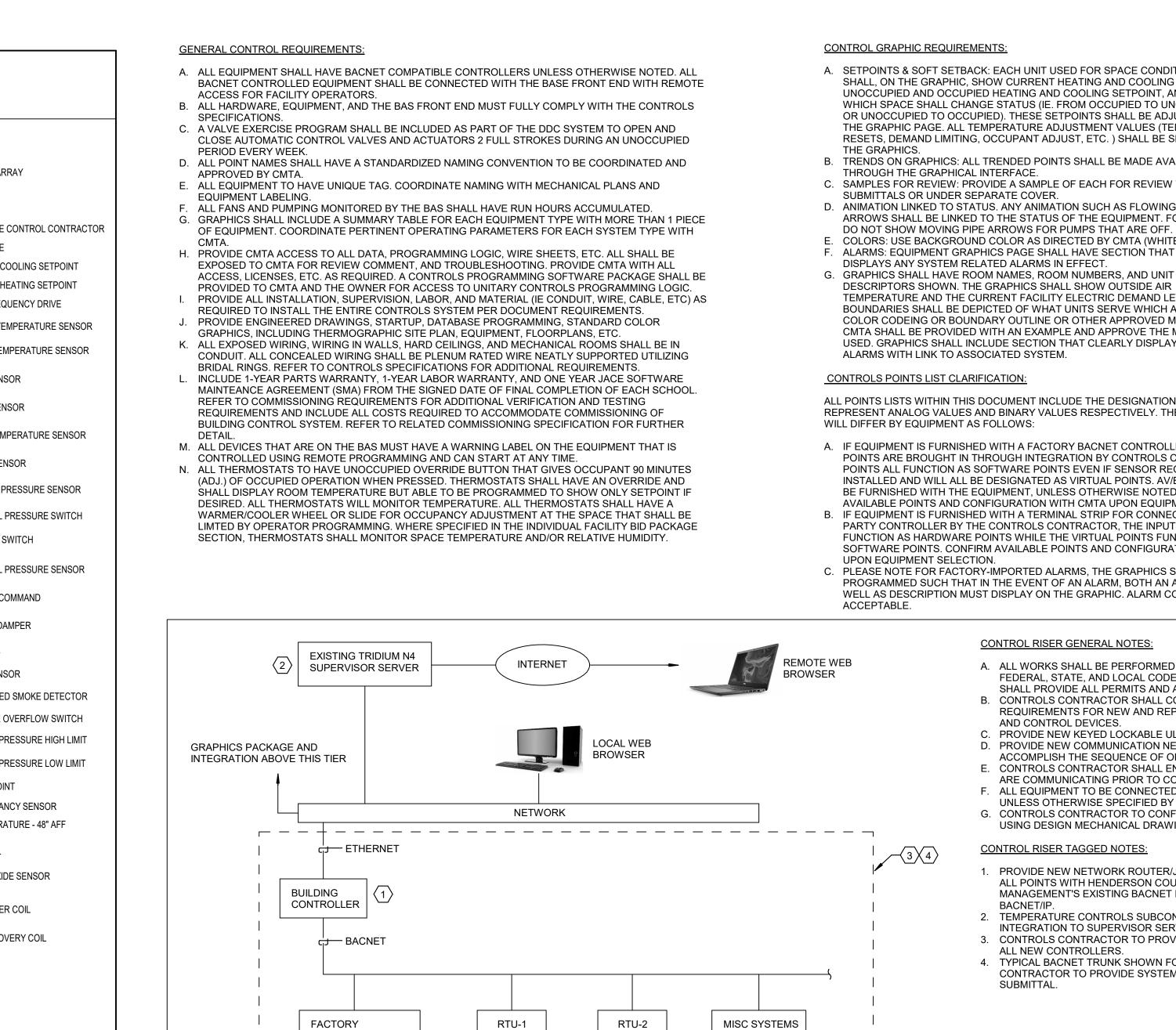




# MECHANICAL CONTROL LEGEND

AFF	ABOVE FINISHED FLOOR	SETP
AFMS	AIR FLOW MONITORING STATION	SF
AI	ANALOG INPUT	SFA
AO	ANALOG OUTPUT	STS
BAS	BUILDING AUTOMATION SYSTEM	SW
BP	BOOSTER PUMP	тсс
CCF	100 CUBIC FEET NATURAL GAS	TEMF
CHWR	CHILLED WATER RETURN	U/C
CHWS	CHILLED WATER SUPPLY	U/H
CHW	CHILLED WATER	VFD
CMD	COMMAND	Та
CO2	CARBON DIOXIDE	$(T_s)$
CR	CONDENSER RETURN	
CS CSR	CONDENSER SUPPLY CURRENT SENSOR RELAY	(н)
DAT	DISCHARGE AIR TEMPERATURE	h
DI	DIGITAL INPUT	
DO	DIGITAL OUTPUT	
DP	DEWPOINT	P
DPR	DAMPER	DP
EA	EXHAUST AIR PATH	DPSW
FBD	FACE AND BYPASS DAMPER	
HL	HIGH LIMIT	<u>ES</u>
HP	HEAT PUMP	(DPS)
HR	HEAT PUMP RETURN	
HS	HEAT PUMP SUPPLY	C
HWR	HOT WATER RETURN	М
HWS	HOT WATER SUPPLY	
LL	LOW LIMIT	
LPC	LOW PRESSURE CONDENSATE	
LPS	LOW PRESSURE STEAM	SD
MAT	MIXED AIR TEMPERATURE	COS
MAU	MAKE-UP AIR UNIT	DSP-HL
MIN	MINIMUM	DSP-LL
NSW	NON-SOFTENED WATER	
NC	NORMALLY CLOSED	ZN-DP
0/C	OCCUPIED COOLING SETPOINT	ZN-OCC
O/H		ZN-T
OA		H
OAD		(Co2)
OAH		
OAT		C W
000		E
OVR		
PRESS	PRESSURE	
RA RF	RETURN AIR PATH RETURN FAN	
RH	RETURN FAN	
SA	SUPPLY AIR PATH	
UN		

)L LE	GEND
TPT	SETPOINT
:	SUPPLY FAN
A	SUPPLY FAN ARRAY
ſS	STATUS
V	SOFT WATER
C	TEMPERATURE CONTROL CON
MP	TEMPERATURE
C	
H D	UNOCCUPIED HEATING SETPO VARIABLE FREQUENCY DRIVE
	AVERAGING TEMPERATURE S
$\leq$	INSERTION TEMPERATURE SE
s) )	HUMIDITY SENSOR
$\mathcal{T}$	ENTHALPY SENSOR
$\mathcal{I}$	
-) \	LOW LIMIT TEMPERATURE SEI
	PRESSURE SENSOR
2)	DUCT STATIC PRESSURE SEN
SW	DIFFERENTIAL PRESSURE SW
<u>S</u>	DAMPER END SWITCH
ps)	DIFFERENTIAL PRESSURE SEN
	START/STOP COMMAND
	MOTORIZED DAMPER
]	FLOW METER
	CURRENT SENSOR
)	DUCT MOUNTED SMOKE DETE
S	CONDENSATE OVERFLOW SW
HL	DUCT STATIC PRESSURE HIGH
L	DUCT STATIC PRESSURE LOW
DP	ZONE DEW POINT
	ZONE OCCUPANCY SENSOR
	ZONE TEMPERATURE - 48" AFF
_w_	HEATING COIL
2	CARBON DIOXIDE SENSOR
W	CHILLED WATER COIL
R	ENERGY RECOVERY COIL
١D	HUMIDIFIER



CONTROLLERS (TYP)

AND POINTS

## A. SETPOINTS & SOFT SETBACK: EACH UNIT USED FOR SPACE CONDITIONING SHALL, ON THE GRAPHIC, SHOW CURRENT HEATING AND COOLING SETPOINT, UNOCCUPIED AND OCCUPIED HEATING AND COOLING SETPOINT, AND TIME FOR WHICH SPACE SHALL CHANGE STATUS (IE. FROM OCCUPIED TO UNOCCUPIED OR UNOCCUPIED TO OCCUPIED). THESE SETPOINTS SHALL BE ADJUSTABLE ON THE GRAPHIC PAGE. ALL TEMPÉRATURE ADJUSTMENT VALUES (TEMPERATURE RESETS, DEMAND LIMITING, OCCUPANT ADJUST, ETC. ) SHALL BE SHOWN ON

B. TRENDS ON GRAPHICS: ALL TRENDED POINTS SHALL BE MADE AVAILABLE C. SAMPLES FOR REVIEW: PROVIDE A SAMPLE OF EACH FOR REVIEW WITH D. ANIMATION LINKED TO STATUS. ANY ANIMATION SUCH AS FLOWING PIPE

ARROWS SHALL BE LINKED TO THE STATUS OF THE EQUIPMENT. FOR EXAMPLE, DO NOT SHOW MOVING PIPE ARROWS FOR PUMPS THAT ARE OFF. E. COLORS: USE BACKGROUND COLOR AS DIRECTED BY CMTA (WHITE OR BLACK). F. ALARMS: EQUIPMENT GRAPHICS PAGE SHALL HAVE SECTION THAT CLEARLY

DESCRIPTORS SHOWN. THE GRAPHICS SHALL SHOW OUTSIDE AIR TEMPERATURE AND THE CURRENT FACILITY ELECTRIC DEMAND LEVEL (KW). BOUNDARIES SHALL BE DEPICTED OF WHAT UNITS SERVE WHICH AREAS. COLOR CODEING OR BOUNDARY OUTLINE OR OTHER APPROVED METHOD. CMTA SHALL BE PROVIDED WITH AN EXAMPLE AND APPROVE THE METHOD USED. GRAPHICS SHALL INCLUDE SECTION THAT CLEARLY DISPLAYS CURRENT

ALL POINTS LISTS WITHIN THIS DOCUMENT INCLUDE THE DESIGNATIONS AV AND BV. THESE REPRESENT ANALOG VALUES AND BINARY VALUES RESPECTIVELY. THESE DESIGNATIONS

A. IF EQUIPMENT IS FURNISHED WITH A FACTORY BACNET CONTROLLER, ALL AVAILABLE POINTS ARE BROUGHT IN THROUGH INTEGRATION BY CONTROLS CONTRACTOR. POINTS ALL FUNCTION AS SOFTWARE POINTS EVEN IF SENSOR REQUIRE TO BE FIELD INSTALLED AND WILL ALL BE DESIGNATED AS VIRTUAL POINTS. AV/BV SENSORS WILL BE FURNISHED WITH THE EQUIPMENT, UNLESS OTHERWISE NOTED. CONFIRM AVAILABLE POINTS AND CONFIGURATION WITH CMTA UPON EQUIPMENT SELECTION. B. IF EQUIPMENT IS FURNISHED WITH A TERMINAL STRIP FOR CONNECTION TO A THIRD PARTY CONTROLLER BY THE CONTROLS CONTRACTOR, THE INPUTS AND OUTPUTS FUNCTION AS HARDWARE POINTS WHILE THE VIRTUAL POINTS FUNCTION AS SOFTWARE POINTS. CONFIRM AVAILABLE POINTS AND CONFIGURATION WITH CMTA C. PLEASE NOTE FOR FACTORY-IMPORTED ALARMS, THE GRAPHICS SHALL BE

PROGRAMMED SUCH THAT IN THE EVENT OF AN ALARM, BOTH AN ALARM CODE AS WELL AS DESCRIPTION MUST DISPLAY ON THE GRAPHIC. ALARM CODE ONLY IS NOT

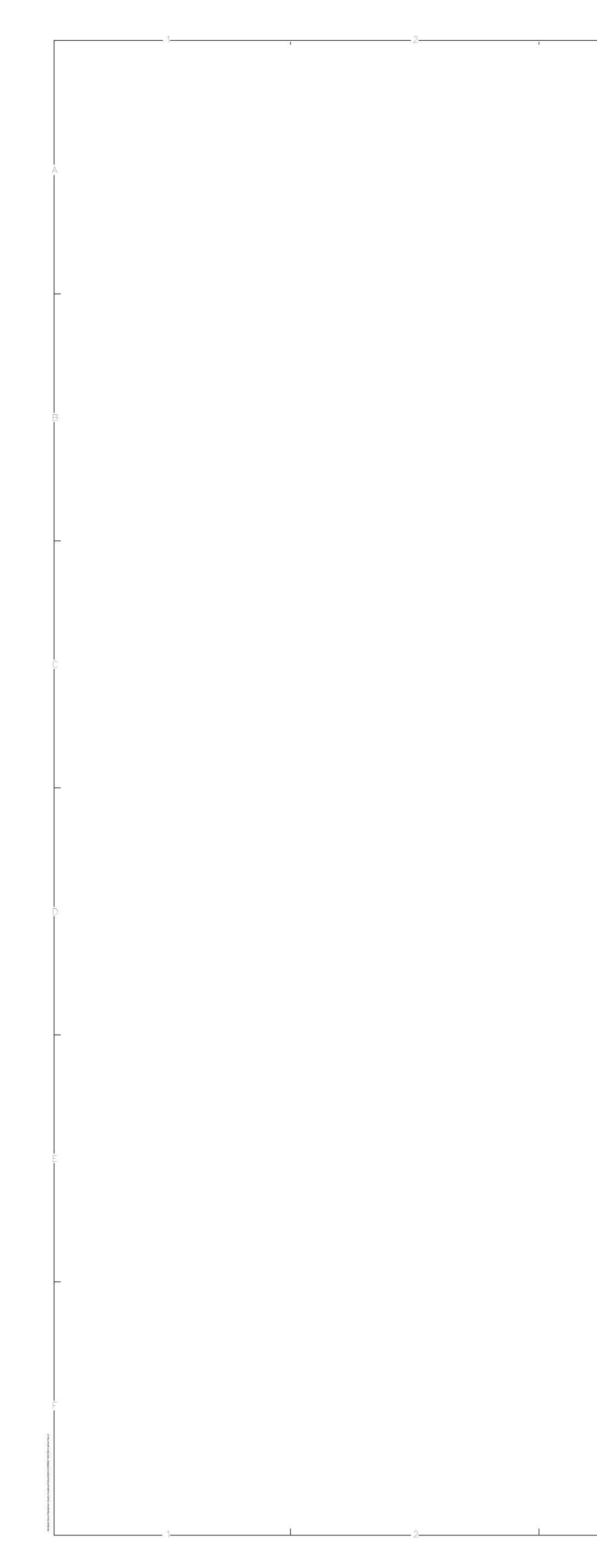
# CONTROL RISER GENERAL NOTES:

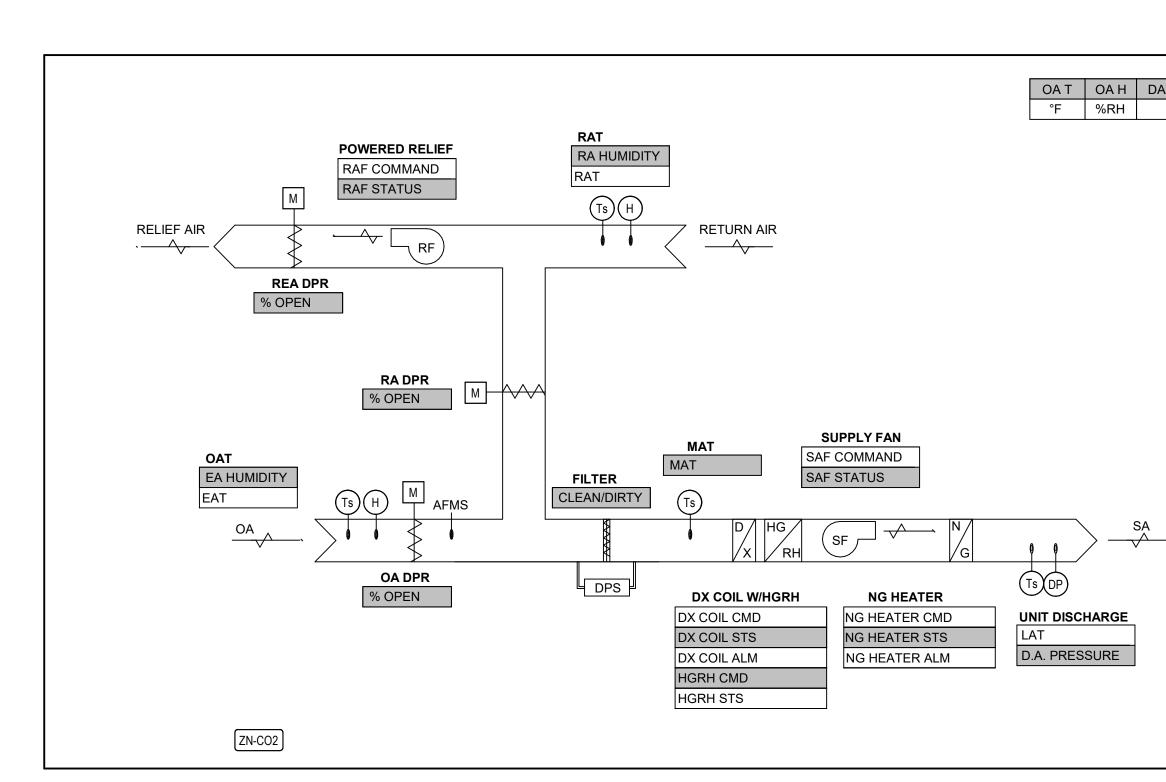
- A. ALL WORKS SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES. CONTROLS CONTRACTOR SHALL PROVIDE ALL PERMITS AND APPLICABLE FEES REQUIRED. B. CONTROLS CONTRACTOR SHALL COORDINATE CONTROL POWER
- REQUIREMENTS FOR NEW AND REPLACEMENT CONTROLLERS AND CONTROL DEVICES.
- C. PROVIDE NEW KEYED LOCKABLE UL LISTED CONTROL CABINETS. D. PROVIDE NEW COMMUNICATION NETWORKS AS REQUIRED TO
- ACCOMPLISH THE SEQUENCE OF OPERATION FOR EACH DEVICE. E. CONTROLS CONTRACTOR SHALL ENSURE ALL BAS CONTROLLERS
- ARE COMMUNICATING PRIOR TO COMPLETION OF WORK. F. ALL EQUIPMENT TO BE CONNECTED TO NEW BACNET NETWORK UNLESS OTHERWISE SPECIFIED BY CMTA.
- G. CONTROLS CONTRACTOR TO CONFIRM ALL EQUIPMENT COUNTS USING DESIGN MECHANICAL DRAWINGS.

## CONTROL RISER TAGGED NOTES:

- 1. PROVIDE NEW NETWORK ROUTER/JACE AS REQUIRED TO INTEGRATE ALL POINTS WITH HENDERSON COUNTY SCHOOLS FACILITY MANAGEMENT'S EXISTING BACNET HEAD-END SOFTWARE USING
- BACNET/IP. 2. TEMPERATURE CONTROLS SUBCONTRACTOR IS RESPONSIBLE FOR
- INTEGRATION TO SUPERVISOR SERVER. 3. CONTROLS CONTRACTOR TO PROVIDE AND INSTALL OR INTEGRATE
- ALL NEW CONTROLLERS. 4. TYPICAL BACNET TRUNK SHOWN FOR REFERENCE ONLY. CONTROLS CONTRACTOR TO PROVIDE SYSTEM ARCHITECTURAL DRAWING IN SUBMITTAL.

ETC) AND MUST BE INCLUDED TO ENAI START TIME. HOLIDAY SCHEDUL MODE WHILE "NOR TIMES, THESE ARE SCHOOL/ ZONES/EN OVERRIDE SCHEDU RETAINED. OVERRI SUMMER MODE OF OCCUPANCY LOAD REGULAR SUMMEF OWN SCHEDULE G WHILE IN SETBACK SNOW DAY OPERA OF ALL SCHEDULES SIMILAR EVENT. SY CONTROL SEQUEN SCHEDULED UNOC BASE/DEFAULT TIM THE ITEM IS TO BE	DULES: ALL OPERAT BROUPS WIT DTHER BID R E - THESE AI MAY BE PUT ADJUSTABL BLE SPACES E - THESE S MAL" SCHED PUT IN AT D QUIPMENT C JLES - TURN IDE TAKE PR CUIPMENT C DUIPMENT C JLES - TURN IDE TAKE PR COCCUPANCE ROUPS IN TH COORDINA TION - FUNC S INTO AN UI STEM OVER ICE TO ALLO COPIED HOU SCHEDUL IN ALL SCHEDUL IN ALL	TE ACCORDING H CMTA PRIOF EQUIREMENTS RE THE BASIC IN AT ANY LEV E. AN ADJUST TO MEET NOF CHEDULES PU DULES REMAIN ISTRICT OR SO OPERATE AS U S EQUIPMENT CORITY OVER ' DURING THE SU S EQUIPMENT S EQUIPMENT	A TO IMPLEMEN NORMAL WEEK (EL CHOSEN BY ABLE STAGED O ABLE STAGED O RMAL SCHEDUL IT EQUIPMENT, INTACT WHEN CHOOL LEVEL. I NOCCUPIED. OR AREAS TO O HOLIDAY" AND JMMER MONTH AFFECT SPECIF GEQUIPMENT W ED MODE TO CO EDULE GROUPS ALL BE BUILT IN TATE DUE TO T ES SHALL REMI ED SPACES TO F LL BE UNOCCU QUIRE THE USE CUPIED TIME IS AY, THE SCHED	TATION. COORE (LY SCHEDULES (THE USER (EQ OR OPTIMAL ST. E OCCUPIED SE ZONES, SCHOO SCHOOL IS CAN HOLIDAY TAKES OCCUPIED MOD "NORMAL." IS, THE BUILDING HED EQUIPMEN (ITHIN THE BUILDING FIED EQUIPMEN (ITHIN THE BUILDING SWITH CMTA PF ITO THE CONTR HE SUDDEN CAI AN IN PLACE AS BE PLACED IN O PIED. IF THERE ER TO PUT IN BO TO BE INPUT BY OULE SHALL BE F	DINATE FINAL S THAT ARE EN UIPMENT, ZON ART ALGORITH TPOINT BY NO OL, OR THE DIS NCELED OR OV PRIORITY OVE DE WHILE "HOLI G SHALL OPER T WITHIN THE E DING SHALL OPER T WITHIN THE E DING SHALL OPER TEMPERATUR RIOR TO IMPLEI OLS TO ALLOW NCELLATION O STATED IN EA CCUPIED MOD IS NO EVENT, C DTH UNOCCUPIE Y USER. IF A PIE PUT IN AS 24 HO	TERED AND E, SCHOOL, DISTRICT, IM MUST BE RMAL SCHEDULE IRICT IN UNOCCUPIED ER BREAKS. MANY R "NORMAL" SO THAT DAY" OR "NORMAL" IS ATE AT REDUCED BUILDING THAT HAS PERATE UNDER THEIR E AND HUMIDITY MENTATION. / FOR TEH OVERRIDE F SCHOOL OR CH SYSTEM'S E DURING DR NO SCHEDULE, IED TIME AND ECE OF EQUIPMENT IS		ALL RIGHTS RESERVED           721037/XHCR23         ALL RIGHTS RESERVED           Pris pawwo is the repotent or its as the property or its and the property or its and the property or its property or	DONT SCALE DRAWING USE GIVEN DIMENSION VIET TA PRODUCED AND SCALE DRAWING WITT THE ARCHITECT OF TAILON OF	02/01/24 AKCHIECIUKE Phone: (270) 683-1158 Fax: (270) 683-2446 E-Mail: office@rbsdesigngroup.com
FALL 8 SPRING 8	MONDAY BAM-4PM BAM-4PM B NEEDED	BU TUESDAY 8AM-4PM 8AM-4PM AS NEEDED	WEDNESDAY 8AM-4PM 8AM-4PM AS NEEDED	SCHEDU THURSDAY 8AM-4PM 8AM-4PM AS NEEDED	FRIDAY 8AM-4PM 8AM-4PM AS NEEDED	SATURDAY SUND UNOCCUPIED UNOCCU UNOCCUPIED UNOCCU UNOCCUPIED UNOCCU	JPIED JPIED	JOB NUMBEF	CHECKED BY	
							С	No. Description Date	FTHEN A	
								HENDERSON COUNTY SCHOOLS HENDERSON COUNTY HIGH SCHOOL	HENDERSON COUNTY CTE RENOVATION	)
	7					8	F		NUMBEF 7.0	२





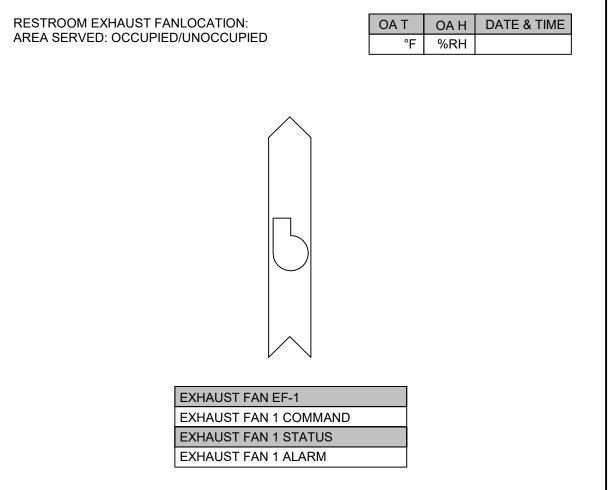




			PO	INTS	LIST	- RTU1, 2	
POINT DESCRIPTION	BI BO	BV	AI	AO	AV	OVR	ALARMS
DA PRESSURE			Х				HIGH
DAT			X				HIGH/LOW
DX COIL ALM		Х					ALL FACTORY ALAR
DX COIL CMD	X					X	
DX COIL HGRH CMD	X					X	
DX COIL HGRH STS		Х					
DX COIL STAGE			X				
DX COIL STS		Х					
FILTER PRESSURE DROP			Х				HIGH
MIXED AIR TEMPERATURE			X				
NATURAL GAS HEATER %				Х			
NG HEATER ALM		Х					ALL FACTORY ALA
NG HEATER CMD	X					X	
NG HEATER STS			Х				
OA CFM			X				15% LOW/HIGH A
OA DAMPER CMD				Х		X	
OA DAMPER STS			X				DAMPER ALA
OA HUMIDITY			Х				
OAT			X				
RA DAMPER CMD				Х		X	
RA DAMPER STS			X				DAMPER ALAF
RA HUMIDITY			Х				
RAF CFM			Х				
RAF CMD				Х		X	
RAF SPEED			X				
RAF STS	Х						FAN ALARN
RAT			X				
REA DAMPER CMD				Х		X	
REA DAMPER STS			X				DAMPER ALA
SAF CFM			X				
SAF CMD				Х		X	
SAF SPEED			X				
SAF STS	X						FAN ALARM
			1				

- 1. <u>General:</u> A. RTU-1 is the sole unit responsible for the air conditioning and ventile hot gas reheat as well as natural gas heating. B. RTU-2 is the sole unit responsible for the air conditioning and ventile
- with hot gas reheat as well as natural gas heating. C. The unit will be provided with complete field mounted controls. DX controllers. The controls contractor shall coordinate with manufactur prior to the ordering of equipment. D. The units shall be provided with averaging thermostats.The classro
- for thermostat location.
- 2. <u>Occupancy Schedule:</u>

  A. Refer to Controls General Notes for occupancy Schedule.
  B. The unit shall be placed into occupied or unoccupied mode from the C. In the occupied mode, the supply fan shall be on and the temperatu D. In the unoccupied mode, the unit shall be off, outside and relief dar 80 degrees (adj.) summer. 3. <u>Supply and Relief Fan Control</u>:
- A. Supply fan to be single packaged fan provided with rooftop air hand B. Supply fan will be started and stopped from the local DDC Panel pe positions and return air damper will open 100%. When the dampers to engage the EP the fan will not be allowed to start. If for this or any indicates the fan has started, the control sequence will be enabled.
- C. The relief fan shall normally be off. Refer to economizer section fo
- 4. <u>Unit Damper Control</u>: A. Damper TAB: The controls contractor is to assist the TAB contractor B. Occupied Mode: In the occupied mode, OA damper will be at minir shall be open 100%. Refer to economizer mode of operation for ad
- C. Unoccupied Mode: In the unoccupied mode, the OA damper and I D. Demand-Control Ventilation:Space-Mounted CO2 sensor will record closed as required to maintain a CO2 differential of 700PPM from an <u>Economizer Control</u>:
   A. Economizer mode shall be activated if the outside air temperature i
- air damper shall be modulated proportionally from their minimum p outside air damper position. Outside air damper position will modula damper will be 0% open, etc.) B. Relief Fan Control: Powered relief fan shall activate in economizer
- C. Provide Economizer mode, damper and relief fan status and setpoir
  6. <u>Supply Air Temperature Controls Cooling:</u>
  A. When the space zone temperature sensor calls for cooling, cooling
- B. When cooling mode is enabled, the control system will enable the c C. Cooling mode lockout: Cooling mode shall be disabled when OAT i Supply Air Temperature Controls - Heating:
   A. When the unit DAT is less than or equal to 53°F (adj.), heating mode
- A. When the unit DAT is less than of equal to 55 P (adj.), heating mode
  B. When heating mode is enabled, the control system will enable the on
  C. Heating mode lockout: Heating mode shall be disabled with OAT is g
  8. <u>Dehumidification Control:</u>
  A. The unit shall monitor zone humidity via zone humidity sensor. In the room-nuetral discharge air temperature. Dehumidification mode shall
- 9. Filter Monitoring: Each filter in the air handler will be provided with an the user. Initial setpoint to be at 0.5 " WC (adj.) greater than the initial f 10. <u>Outside Air Monitoring</u>: An airflow monitoring station must be provide for the unit.



				- 7—		1	(	3
]	BO B	PO BV AI X	AO	LIST	- RTU1 OVR	, 2 ALARMS HIGH	GRAPHIC	TREND Yes
_	X X X	X			X X	HIGH/LOW ALL FACTORY ALARMS	Yes Yes Yes Yes	Yes Yes No No
+	>	x x x					Yes Yes Yes	Yes Yes Yes
		X X X	X			HIGH ALL FACTORY ALARMS	Yes Yes Yes Yes	Yes Yes Yes Yes
	X	× X			X	15% LOW/HIGH ALARMS	Yes Yes Yes Yes	No Yes Yes
		XXX	X		X	DAMPER ALARM	Yes Yes Yes	No Yes Yes
_		X X X	X		X	DAMPER ALARM	Yes Yes Yes	Yes No Yes
		X X X	X		X		Yes Yes Yes Yes	Yes Yes No Yes
_		X	X		X	FAN ALARM	Yes Yes Yes	Yes Yes No
		X X	X		X	DAMPER ALARM	Yes Yes Yes	Yes Yes No
		X				FAN ALARM	Yes Yes	Yes Yes
ninir add id F ecol m a ure n po dula zer stpo	mum p ditiona REA d rd the ambier is less osition ate to mode pints o g mode	position al requir amper ( the spant. s than 6 n to 100 unit DA when ( on graph e shall (	as se remen positic ace CC 5 deg % ope T. RA OA da ic. be ena caged	t by T ts. in will D2 lev . (adj. in as . Dam mper abled. dx cc	AB, the be clos vel. Who ). In the required per will is betw	position. Refer to TAB specification for additional require Relief air damper shall maintain it's minimum position and the RA damper will be open 100%. Refer to ecc en not in economizer mode ,OA damper postion will mo e event that the economiizer mode is activated, outside d to achieve a unit discharge air temperature of 55 deg be modulated opposite relief air damper position. (Eg. reen 60 to 100% (adj.) open and shall otherwise be "off poil to stage onboard compressors as required to meet th	as set by TAB a ponomizer model odulate between air damper and (adj.). Relief air When Relief air ".	for additiona it's minimur return air da damper pos damper is 1
sha an tial	all be analo analo filter p led to 1. 2. 3.	XHAUS Monitor XHAUS <u>Genera</u> A. Exha Shall <u>Hardwi</u> A. Fan on the restro contro B. BAS <u>Schedu</u> A. Exha by the B. Shou alarm	T FAN the flore the	I SEC n thro le cor fans a <u>chaus</u> be ope ng. M ghting aust f onitor <u>xhaus</u> ns to . Refe	<u>QUENCI</u> outdoo <u>acks the</u> clean fi outdoo <u>acks the</u> clean fi outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>acks</u> outdoo <u>a</u>	us via current sensor.	m for each filter tain this setpoint	such that is and progra

5 EXHAUST FAN SCHEMATIC

DESCRIPTION LIGHTING CONTROLS	HEIGHT	SYMBOL		HE
	46"	\$ <sup>#</sup>		
LIGHT SWITCH: LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	40	-	REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.	
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	\$ <sup>N</sup>	SURFACE OR SUSPENDED CEILING FIXTURE	
LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	\$ <sup>D#</sup>		
GRAPHIC TOUCHSCREEN CONTROL STATION	46"	<b>\$</b> <sup>G</sup>		
LINE VOLTAGE SWITCH	46"	<b>\$</b> <sup>LV</sup>	RECESSED CEILING FIXTURE	
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH	46"	<b>\$</b> <sup>LV3</sup> <b>\$</b> <sup>LV4</sup>		
LINE VOLTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH	46"	\$ <sup>LV3D</sup> \$ <sup>LV4D</sup>		
KEYED SWITCH	46"	<b>\$</b> <sup>K</sup>	POLE MOUNTED AREA LIGHT WITH CONCRETE BASE	
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	\$ <sup>OS</sup> \$ <sup>VS</sup>		
OCCUPANCY OR VACANCY SENSOR SWITCH WITH DIMMING	46"	\$ DOS	LIGHTED BOLLARD WITH CONCRETE BASE	
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	<b>\$</b> <sup>U</sup>	EMERGENCY BATTERY WALL-PACK	
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	\$ <sup>IL</sup>	WALL MOUNT FIXTURE	
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	<b>\$</b> PL		
TIMER SWITCH	46"	\$ <sup>T</sup>	TRACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS	
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG			
OCCUPANCY SENSOR, CORNER MOUNT	CLG		EXIT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS	
DAYLIGHT SENSOR	AS NOTED	69	STRIP FIXTURE	
PHOTOCELL	AS NOTED		CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH	
	AS NOTED		PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE	
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ER	EMERGENCY-LIFE SAFETY BRANCH	
POWER OUTLETS				AS
SIMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE)	1'-6"	φ &	REMOTE BATTERY BACKUP	AS
DUPLEX RECEPTACLE	1'-6"		CENTRAL BATTERY INVERTER	AS
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE	+	₩ ₩	MISCELLANEOUS	
COUNTERTOP 4" ABOVE BACKSPLASH	41.0"		CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS:	
'G' INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	ල්	HASHMARKS INDICATE # OF CONDUCTORS.	
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY		Ø	NON-REVERSING MOTOR STARTER SNAP SWITCH	AS
	41.0"	-	MOMENTARY CONTACT SWITCH	46'
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-6"	6	HAND-OFF-AUTO 3-POSTION SWITCH	46
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-6"		DISCONNECT SWITCH	5'-(
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE	46"	-	MAGNETIC STARTER	5'-(
DIVIDER IF LIGHTING CIRCUIT IS 277V)	40	₫ <sup>C/S</sup>	MAGNETIC COMBINATION STARTER	5'-(
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	φ	VARIABLE FREQUENCY DRIVE	5'-
QUADRUPLEX RECEPTACLE	1'-6"	₩	ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-
JUNCTION BOX, CEILING OR WALL		ΟΨ	MUSHROOM SWITCH	46
VOLTAGE/2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"		PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS.	46
VOLTAGE/3 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	<b>₩</b>		
'T' INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		6	PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-(
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		₫ <sup>ss</sup>	TRANSFORMER	AS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH	2'-2"	<sup>6</sup> <sup>₩P</sup>		
LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS		-	EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)	
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18"		GEWC	MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE	
ADJACENT TO WATER COOLER			PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR	
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		ф	CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.	
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP		-	PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION.	
CONDUIT		¢	TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED	
FIRE ALARM			PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL	VE
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP	SPECIFICATIONS)	AR
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA	SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)	
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM	GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED)	46
LOCAL OPERATOR CONSOLE	54"	LOC	- SEE SPECIFICATIONS	
SMOKE EVACUATION CONTROL PANEL	54"	SECP		
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"			
TRANSPONDER CABINET	46"			-
GRAPHICS DISPLAY TERMINAL		GDT	GROUND BUS BAR ON INSULATED STANDOFFS	2'-(
FIRE ALARM CONTROL EXTENDER			BUS DUCT, AMPERAGES AS NOTED	AS
POST INDICATOR VALVE			WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS
PULL STATION : DOUBLE ACTION	46" TO LEVER	Ē	TRENCH DUCT (SIZE AS NOTED)	AS
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL	46" TO	_ Ек	WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS
ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	LEVER		LADDER CABLE TRAY, SIZE AS NOTED	AS
	WALL, CLG	T T T	SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS
AUDIO-ONLY NOTIFICATION APPLIANCE VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG WALL, CLG		EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE	
VISUAL-ONLY NOTIFICATION APPLIANCE BELL / LIGHT	WALL, CLG		MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)	
BELL / LIGHI BELL ONLY	80"	B B	TAGGED NOTE	+
PHOTO-ELECTRIC SMOKE DETECTOR	CLG			_
REAL-TIME VAPE DETECTOR AND SECURITY DEVICE.	CLG		REVISION TAG	
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE BR		EX
HEAT DETECTOR	CLG			DE
CARBON MONOXIDE DUCT DETECTOR	ABOVE			NE
	CEILING	-		INE
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG			
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	Ĩ <sup>CM</sup>		
DOOR HOLDER : WALL TYPE	WALL			
	ABV DOOR			
	ABV CLG			
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS		
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE	1	TS		
MODULE				
PRESSURE SWITCH				
	WALL			
ZONE ADDRESSABLE MODULE				
H.V.A.C. SMOKE DAMPER CONNECTION		SM		
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI		
FIREMAN'S PHONE JACK	4'-6"	FP		
FIREMAN'S KNOX BOX CONNECTION	1	KB		
ADDRESSABLE RELAY MODULE	-	R		
	+	1		
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL		VR		
		VR		
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC		VR CH		

<u></u>		I
ESCRIPTION	Mounting Height	SYMBOL
IGHTING FIXTURES AND EQUIPMENT	HEIGHT	STRIBOL
EFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE PECIFICATIONS, MOUNTING HEIGHTS, ETC.		
JRFACE OR SUSPENDED CEILING FIXTURE		
		₽¤
		ΩΦα
ECESSED CEILING FIXTURE		
		$\square \circ$
DLE MOUNTED AREA LIGHT WITH CONCRETE BASE		<u>ଜ</u> ା
		→ →
GHTED BOLLARD WITH CONCRETE BASE		0
IERGENCY BATTERY WALL-PACK		<b></b>
ALL MOUNT FIXTURE		₽₽₽₽
		<b>Q</b>
RACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS		$\nabla$
(IT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT		¥ ⊗⊗&&
RECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS		
ROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE		
IERGENCY-CRITICAL BRANCH		
RALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE IERGENCY-LIFE SAFETY BRANCH		
EMOTE LIGHT FIXTURE DRIVER	AS NOTED	RD
EMOTE BATTERY BACKUP	AS NOTED	RB
ENTRAL BATTERY INVERTER	AS NOTED	
IISCELLANEOUS		
DNDUIT CONCEALED IN WALLS OR IN CEILING SPACE: RROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS:		
ASHMARKS INDICATE # OF CONDUCTORS.		Ň
DN-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	\$ <sup>M</sup>
DMENTARY CONTACT SWITCH	46"	\$ <sup>MC</sup> \$ <sup>HOA</sup>
AND-OFF-AUTO 3-POSTION SWITCH SCONNECT SWITCH	46"	<b>5</b>
	5-0	
AGNETIC COMBINATION STARTER	5'-0"	<b>N</b>
ARIABLE FREQUENCY DRIVE	5'-0"	æ
ICLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
JSHROOM SWITCH	46"	Ê
JSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS.	46"	000
NELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING DICATES EMERGENCY	6'-6" TO TOP	
RANSFORMER	AS NOTED	
	ASNOTED	
QUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		ති
DTOR CONNECTION, REFER TO EQUIPMENT CONNECTION CHEDULE		101
UMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR DNNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS		<b></b>
LUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. RANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED CCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL RANSFORMERS OF SAME TYPE AS/IF NEEDED		8
ROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL PECIFICATIONS)	VERIFY WITH ARCHITECT	Ø
IRGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)		🗖 🛨 SPD
ENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED)	46"	🗖 🕁 GEN-A
SEE SPECIFICATIONS		0
DNDUIT DOWN		0
EXIBLE CONDUIT		$\sim$
ROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	<b></b>
JS DUCT, AMPERAGES AS NOTED	AS SHOWN	
IREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
RENCH DUCT (SIZE AS NOTED)	AS SHOWN	
IRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
DLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
HOOK PATHWAY		
QUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-#
ECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		EQUIP-#
IGGED NOTE		$\bigcirc$
EVISION TAG		$\wedge$
	EVICTING	
	DEMOLISHED	
	NEW	
		]

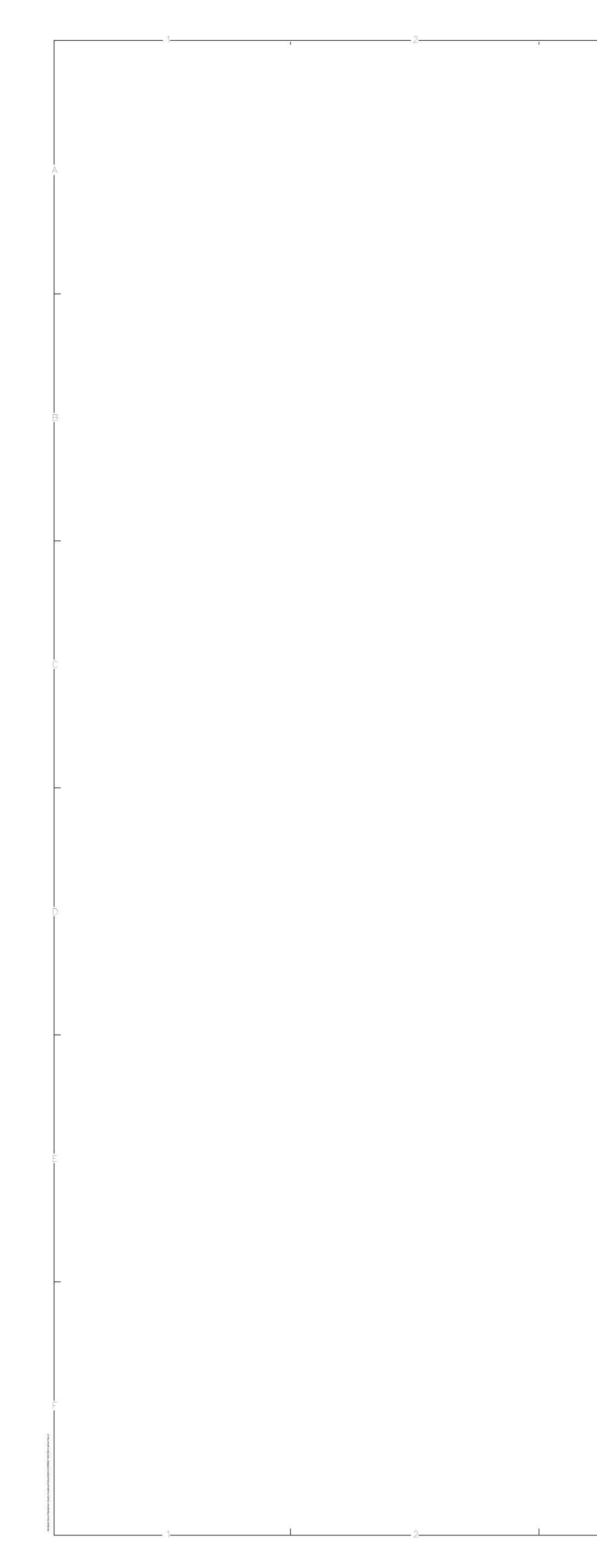
4	' MOUNTING		
DESCRIPTION ABBREVIATIONS	HEIGHT	SYMBOL	
UNLESS OTHERWISE NOTED		UON	
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI	
OWNER FURNISHED OWNER INSTALLED		OFOI	
		CFCI	
CONTRACTOR FURNISHED OWNER INSTALLED		EM	
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR		WG	
DEVICE NOTED WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE		WD	
COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP	
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP	
SPECIAL OUTLETS			
FLOORBOX, AS SCHEDULED	FLOOR	FB#	
POKE-THRU, AS SCHEDULED	FLOOR	(P#) WB#	
WALLBOX, AS SCHEDULED	1'-6"	AV	
TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"		
ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1-0	$\heartsuit$	
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"		
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE	CLG	۵	
DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES		-NA-	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		-NA-	
SURFACE WIRE-MOLD			
POWER POLE AS NOTED		PP	
TELEVISION			
TELEVISION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION)	46"	TV	
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	$\mathbf{O}^{T}$	
OVERHEAD PAGING			
PAGING SPEAKER: CEILING	CLG	Ś	
PAGING SPEAKER W/ VOLUME CONTROL	CLG		
PAGING SPEAKER: WALL	8'-0"		
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE 5A606 SPEAKER. ATLAS 417-8WD	8'-0"	Ŷ	
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER. QUAM VP1	SEE FLOOR PLANS	₹ Y S V	
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY	SEE FLOOR PLANS	<b>S</b> ₩P	
ARCHITECT/OWNER. QUAM VP6		$\langle H \rangle$	
WALL MOUNTED PAGING HORN CALL INITIATION STATION	9'-0" 46"	Ý	
WALL VOLUME CONTROL	46"	$\diamond^{\mathbf{I}}$	
PAGING MICROPHONE	1'-6"	_ Ŷ	
PANIC BUTTON (MOUNTING PER DRAWINGS)	46", UNDER DESK	$\Phi$	
NOTIFICATION LIGHT (MOUNTING PER DRAWINGS)	7'-6", CLG	$\langle \mathbf{A} \rangle \langle \mathbf{A} \rangle$	
LCD WALL DISPLAY		LCD	
PAGING SYSTEM HEADEND	46"	PA	
CLOCKS			
TYPICAL CLOCK MOUNTING HEIGHTS: FOR CEILING HEIGHTS < 9'-8" :			
MOUNT CENTER OF BACKBOX AT 8" BELOW CEILING. FOR CEILING HEIGHTS >= 9-8" :			
MOUNT CENTER OF BACKBOX AT 9'-0" AFF.			
ANALOG CLOCK: SINGLE FACE	SEE ABOVE	Ŷ	
ANALOG CLOCK: DUAL FACE	SEE ABOVE	- (P)(P)	
DIGITAL CLOCK: SINGLE FACE	SEE ABOVE		
DIGITAL CLOCK: DUAL FACE	SEE ABOVE	H 20C	
CLOCK SYSTEM HEAD END	84"	CLOCK	
AV SYSTEMS		. •	
PROJECTOR WITH MOUNT (CEILING OR WALL AS INDICATED)	REFER TO DRAWINGS	ÔŶ	
LOCAL SOUND SPEAKER: CEILING	CLG	( <u>3</u> )	
VIRELESS MICROPHONE ANTENNA	CLG		
OCAL SOUND SPEAKER: WALL	REFER TO SPECS.	ي چ	
MICROPHONE INPUT: # INDICATES NUMBER OF INPUTS.	1'-6"	$\bigoplus_{i=1}^{M}$	
VIRELESS MICROPHONE ANTENNA, WALL MOUNT	REFER TO SPECS.	₩	
AV INPUT (OR OUTPUT) WALL PLATE. REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITY OF CONNECTIONS.	1'-6"	$\bigotimes$	
BLUETOOTH INPUT MODULE	1'-6"	₽ ©	<u>E</u>
AV TOUCHSCREEN CONTROL STATION	46"		A
LOCAL SOUND SYSTEM HEADEND	REFER TO SPECS.	LS	E
PANEL FURNITURE			
PANEL FURNITURE DUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS		щ	
AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		曲	C
PANEL FURNITURE QUADRUPLEX RECEPTACLE. PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE		#	
VENDOR PANEL FURNITURE DATA/VOICE OUTLET. PROVIDE ALL WIRING AS			
REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNER'S PANEL FURNITURE VENDOR		2D	C
POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL	1'-6"	<b>ද</b> FP	
FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR		D FP	E
	1'-6"	<b>• •</b>	F
COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	S FF	F. G H

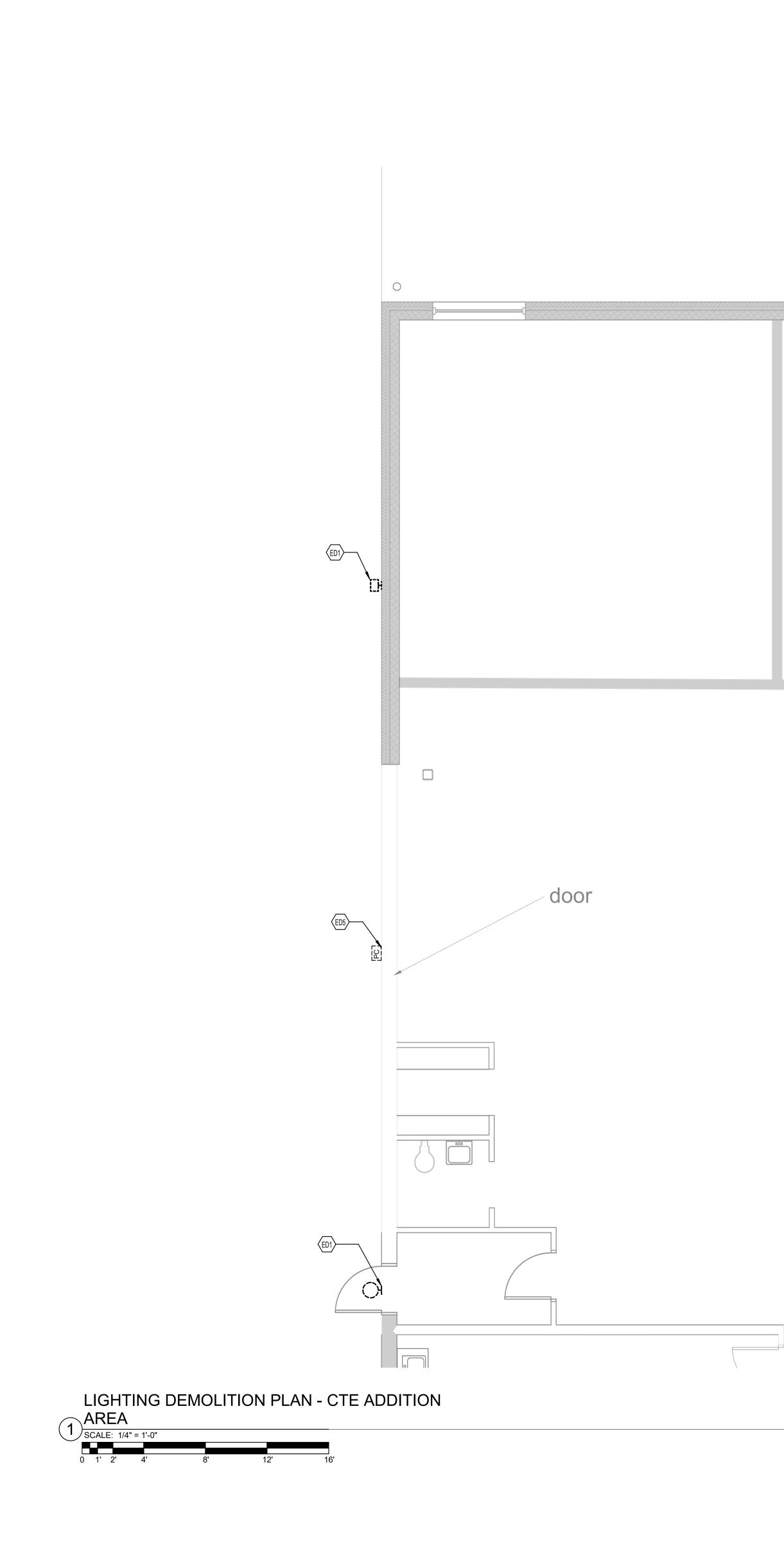
-	DESCRIPTION	MOUNTING HEIGHT	SYMBOL
	SECURITY PANIC ALARM		
	PANIC ALARM BUTTON	SEE DRAWINGS	P
	PANIC ALARM ANNUNCIATOR	46"	
	PANIC ALARM STROBE - REFER TO SPECIFICATIONS FOR LENS AND HOUSING COLOR	SAME AS FIRE ALARM	®® ₽
	PANIC ALARM POWER SUPPLY CABINET	5'-0"	SEC-P
	SECURITY INTERCOM		
	AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS	DESK MOUNT	
	REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE	MOONT	
·	SYSTEM. AIPHONE#IX-MV W/DESK STAND - COLOR BY ARCHITECT. AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S.	46"	R
			Y ]
	DOOR ALARM	DOOR	
		FRAME	፼®
	DOOR POSITION SWITCH	DOOR FRAME	P A
	MAGNETIC LOCK(S)	ABV DOOR	
	DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	AT LATCH ABV DOOR	I
	ELECTRIC STRIKE	AT LATCH	Ĩ ₽ ₽
	AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE	CLG	R AP
	ARCHITECTURAL HARDWARE SPECIFICATIONS) DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION.	46"	
	PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.		P
	DOOR RELEASE KEYSWITCH STATION	6'-0"	
		46"	
	DOOR RELEASE PROXIMITY READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	P
·	SAME AS "PR" EXCEPT MULLION MOUNT	46"	₽м
	MOTION SENSOR DOOR CONTROL	CLG	
		46"	PM PM PM P P P P P P P P P P P P P P P
	REMOTE DOOR RELEASE PUSH-BUTTON RECESSED JUNCTION BOX	8" ACT SEE	I Ÿ I Ø ₪
	ACCESS CONTROL HEADEND	DRAWINGS	SEC-A
	SECURITY CCTV VIDEO SURVEILLANCE	5-0	<u>BEC-A</u>
	CCTV CAMERA: CEILING MOUNT DOME (TEXT INDICATES TYPE)	CLG	
	REFER TO SCHEDULE FOR TYPES CCTV CAMERA: WALL MOUNT DOME (TEXT INDICATES TYPE)	WALL	 H <i>##</i> #⊠
	REFER TO SCHEDULE FOR TYPES		
	INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILLARY HEATER		WP
	INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
	CCTV HEAD END	SEE DRAWINGS	SEC-C
	SECURITY INTRUSION DETECTION		
		CLG	
	GLASS BREAK SENSOR (WALL OR CEILING MOUNT)	SEE	¥™ ¶©
	INTRUSION DETECTION KEYPAD CONTROLLER	DRAWINGS	ф
	SECURITY SYSTEM HEAD END	5'-0"	SEC
	DATA / VOICE		
	DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS. NO NUMBER INDICATES 1 JACK.	1'-6"	$\nabla^{2D}$
	VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS. NO NUMBER INDICATES 1 JACK.	1'-6"	. ▼
	COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES	1'-6"	2D/1V
	NUMBER OF DATA/VOICE JACKS SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE		v 
	COUNTERTOP 4" ABOVE BACKSPLASH		PAY
	OUTLET (VOICE ONLY) : PAYPHONE TYPE DATA RACK: TWO POST. REFER TO COMMUNICATIONS RISERS AND	AS REQ'D.	
	SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
	DATA RACK: FOUR POST. REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
	TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF		1
	NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR		
	AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		-
	WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (2 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT	CEILING	WAP
	NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF		
	FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE	WALL	WAP <b>V</b>
	OWNER'S WAP LOCATIONS.		
<u>CTR</u>	<b>ICAL DEMOLITION NOTES:</b>		
	ED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SO	olid halftoi	NE LINES INDICATE
THE (	CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXI CES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMC		
DEVI( THAT	CE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOW	E CONTRACTO /NSTREAM" OI	or shall ensure N the circuits
SHAL SHAL	L REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LE L REMAIN, BE SWITCHED TO OFF POSITION, AND BE LAB	FT-OVER" CIR BELED AS SPA	CUIT BREAKERS RES IN THEIR
PANE LOCA	LS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL TIONS OF DEVICES, CONNECTIONS, ETC., INDICATED O	_ PANELS AFFE N THIS DRAW	ECTED. ING WERE TAKEN
ROM	I VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY A I EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS CONTRACTOR PROPOSING TO DO ANY PART OF THE WO	MAY NOT BE	INDICATED AT ALL.
/ISIT	CONTRACTOR PROPOSING TO DO ANY PART OF THE WO THIS SITE AND DETERMINE TO HIS SATISFACTION THA IRED FOR THE BID WHICH HE PROPOSES.		
REMC	IRED FOR THE BID WHICH HE PROPOSES. IVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDU . BEING REMOVED (BACK TO SOURCE), WHETHER INDIC		
CONT	RACTOR SHALL PATCH AND REPAIR ANY EXISTING WALL CES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR T	LS, FLOORS O	R CEILINGS WHERE
ARCH	ITECTURAL PLANS). DINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (IN		
own Coof	ER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR ( DINATE WITH OTHER TRADES FOR THE REMOVAL AND/	OPTION. 'OR RELOCATI	
DEVI( PROV	CES AND CONNECTIONS ASSOCIATED WITH THEIR EQUI IDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRU	PMENT. JCTION BARRI	IERS AS REQUIRED.
CONT	RACTOR SHALL PATCH AND REPAIR ALL EXISTING WALL RE DEVICES ARE BEING REMOVED OR INSTALLED.	S / CEILINGS	AS REQUIRED
	ED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACC	CESSIBLE CEII	LINGS SHALL BE
JNUS REMC	OVED IN ACCORDANCE WITH NEC REQUIREMENTS.		
JNUS REMC EXIST PERM	ING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN	I ON PLANS.	
JNUS REMC EXIST PERM CONT EXTE	ING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRU	I ON PLANS. TIONS OF BUI OVED BY ARC	LDING ENVELOPE HITECT AND

POSITION.

- CATE
- ITAIN
- (EN ΓION T ALL. WORK
- TURES HERE - SEE
- ) WITH CAL
- ED TO
- I END ALL EXIS
- CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF
- N. CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

ELECTRICAL GENERAL NOTES: A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE	(42301 (270)683-2446
ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS. B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.	
<ul> <li>C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC.</li> <li>D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING</li> </ul>	Owensboro, Fa
CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. E. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL	vard Drive, 270) 683-1
BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION. F. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER. G. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN	723 Han Phone: C
ADDENDUM. H. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.	<u> </u>
<ul> <li>I. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.</li> <li>J. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE,</li> </ul>	
<ul> <li>FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).</li> <li>K. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON.</li> <li>L. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH</li> </ul>	
<ul> <li>INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANOLACTORER'S RECOMMENDATIONS AND DIRECTIONS. IF IN COMPLETE WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.</li> <li>M. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.</li> </ul>	
<ul> <li>N. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.</li> <li>O. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL</li> </ul>	
BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER P. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.	
<ul> <li>Q. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.</li> </ul>	EXVED EXVED SERTY OF R.B.S. SERTY OF R.B.S. SERTY OF R.B.S. ELSEDFTRAT HER PROJECT TO F THIS FRAM. IF NOT SHOWN. IF FOR THE REAL MININGS MININ
R. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.	ALL RIGHTS RESE RIVE IS THE PROF REDUP PSC: AND RESENT PSC: AND RESENT RESENT PSC: AND RESENT RESENT PSC: AND RESENT RESENT RESENT PSC: AND RESENT
<ul> <li>S. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).</li> <li>T. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.</li> </ul>	PHESCARA THAS DRAWN DPRAWN CONSTRA CONSTRA WITHOUT VEREY AND VITHAT
<ul> <li>U. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.</li> <li>V. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN</li> </ul>	21037/XHCR23 ASP BWR
APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.	21037/
<ul> <li>W. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.</li> <li>X. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT</li> <li>Y. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER</li> </ul>	JOB NUMBER
OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER. Z. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR	
UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT. AA. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE	6
DOCUMENTS, AS APPLICABLE. BB. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.	Descripti
<ul> <li>CC. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM</li> <li>EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE</li> <li>OF THE RESPONSIBLE CONTRACTOR(S).</li> <li>DD. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING</li> </ul>	
AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING. EE. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED	BRADLEY WYNN
CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT. FF. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.	P 20084
GG. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE	SONAL ENGLA
WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. HH. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.	
<ul> <li>II. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK</li> <li>CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.</li> <li>JJ. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT,</li> </ul>	
CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN. KK. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK. LL. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT	
OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE. MM. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN	
ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK. NN. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.	
OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE	
UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE. PP. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.	
QQ. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. RR. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL	S_OOI
FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.	DOCE
<ul> <li>SS. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.</li> <li>TT. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.</li> </ul>	
<ul> <li>UU. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS.</li> <li>COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.</li> <li>VV. REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED</li> </ul>	
WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.	
<b>ELECTRICAL PHASING NOTES:</b> A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND EXAMPLES	
PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH	SUN COL
THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.	SOI SOI
ELECTRICAL HAZARDOUS NOTES: A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS	SSON SSON
BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS. B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY	
<ul> <li>CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.</li> <li>C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH</li> </ul>	
CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY. D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO	
CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR	
ANY OTHER THIRD PARTIES. E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.	
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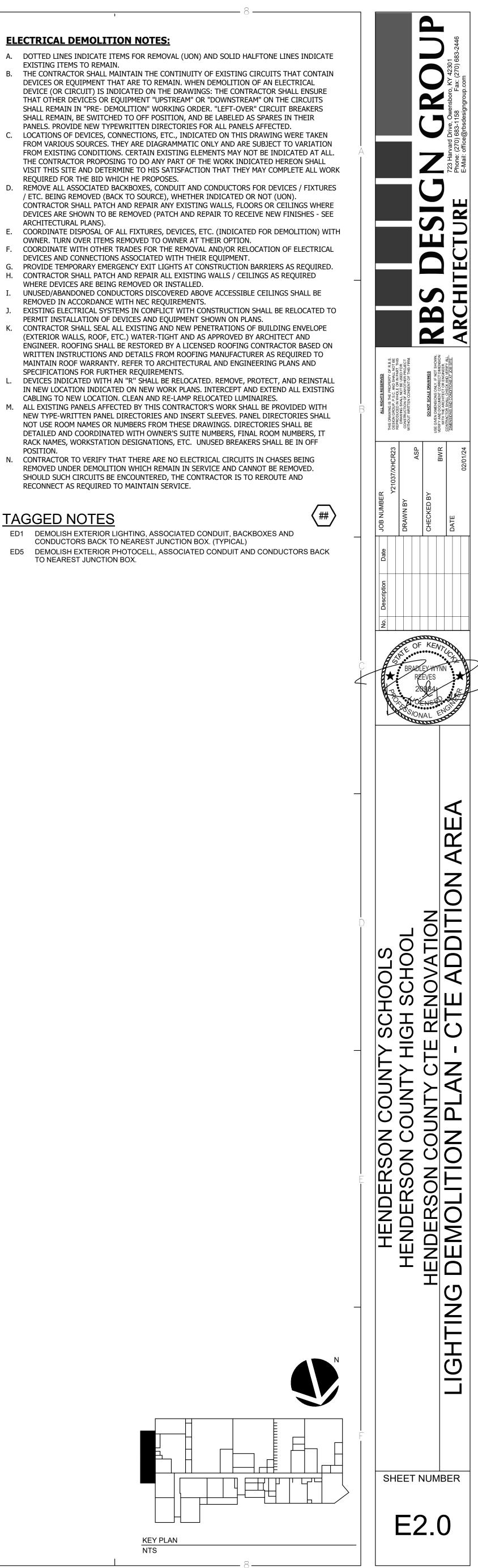
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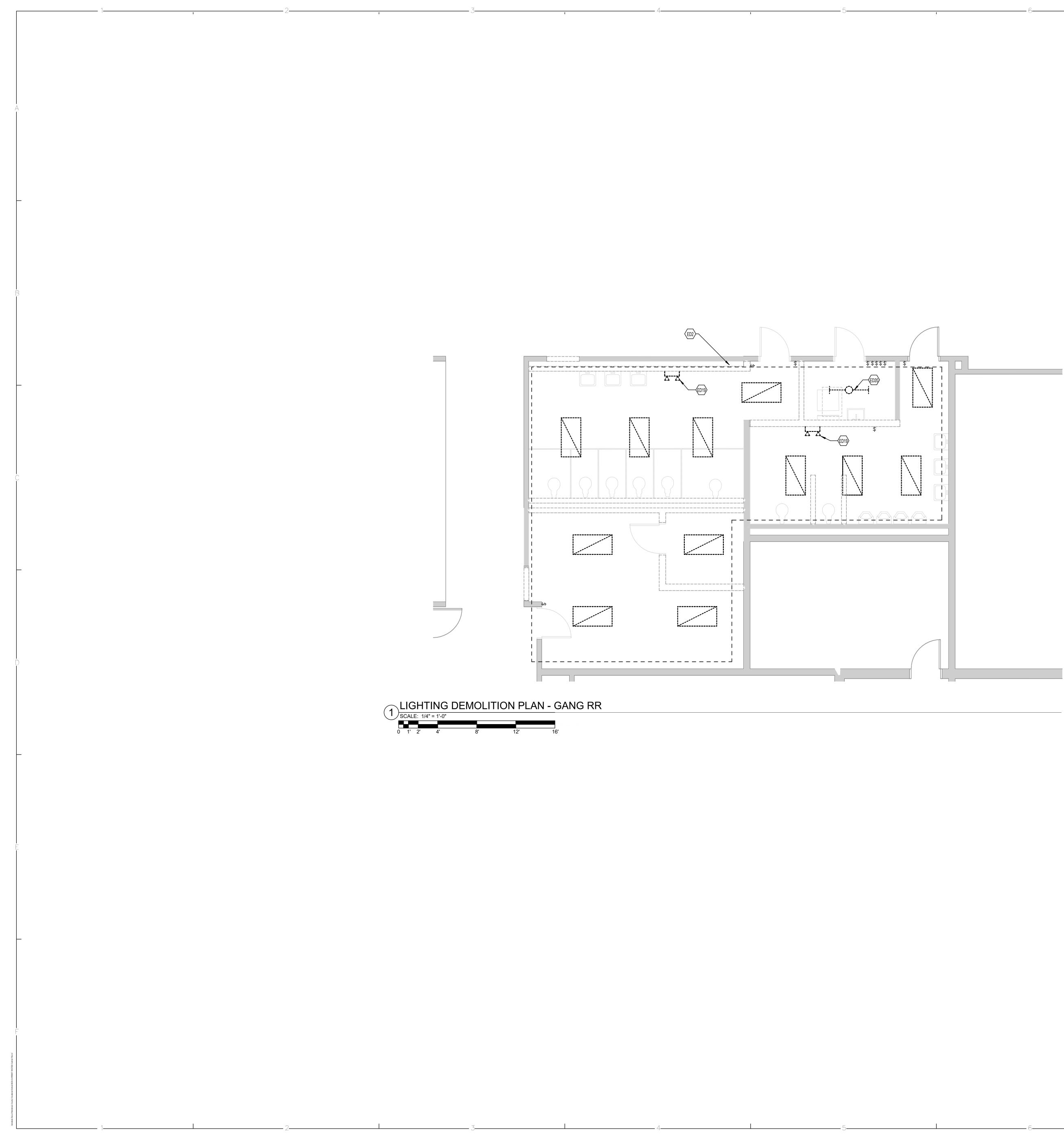
## **ELECTRICAL DEMOLITION NOTES:**

- EXISTING ITEMS TO REMAIN. B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN
- DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR
- PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL
- REQUIRED FOR THE BID WHICH HE PROPOSES. D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION. F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED. H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED
- WHERE DEVICES ARE BEING REMOVED OR INSTALLED. I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS. J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO
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- POSITION. N. CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

# TAGGED NOTES

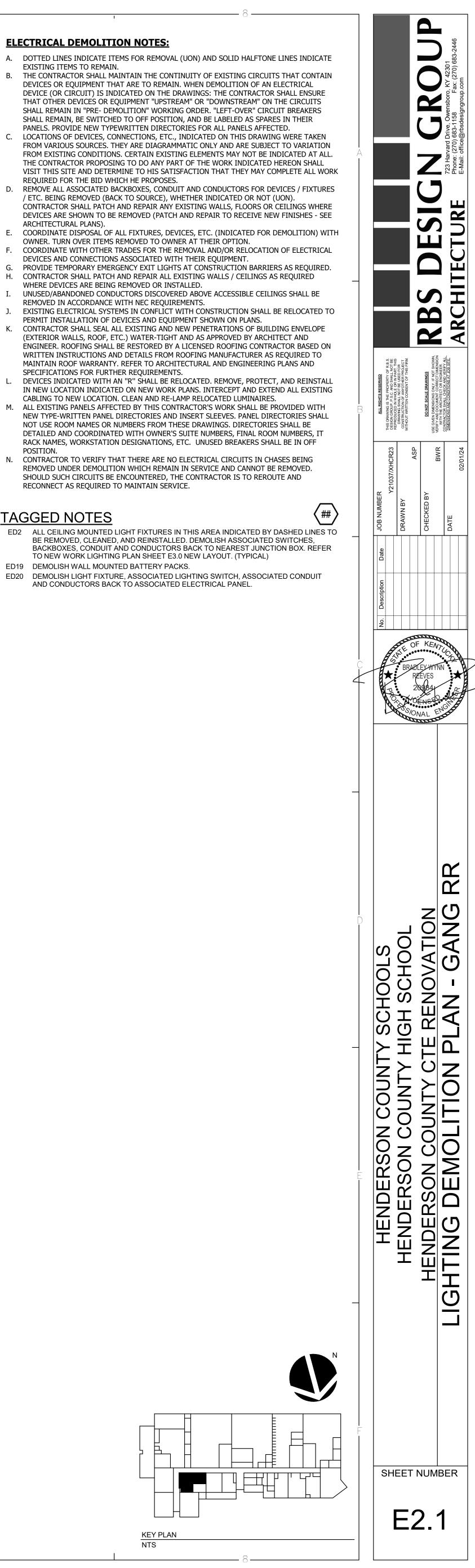
ED1 DEMOLISH EXTERIOR LIGHTING, ASSOCIATED CONDUIT, BACKBOXES AND CONDUCTORS BACK TO NEAREST JUNCTION BOX. (TYPICAL) ED5 DEMOLISH EXTERIOR PHOTOCELL, ASSOCIATED CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX.

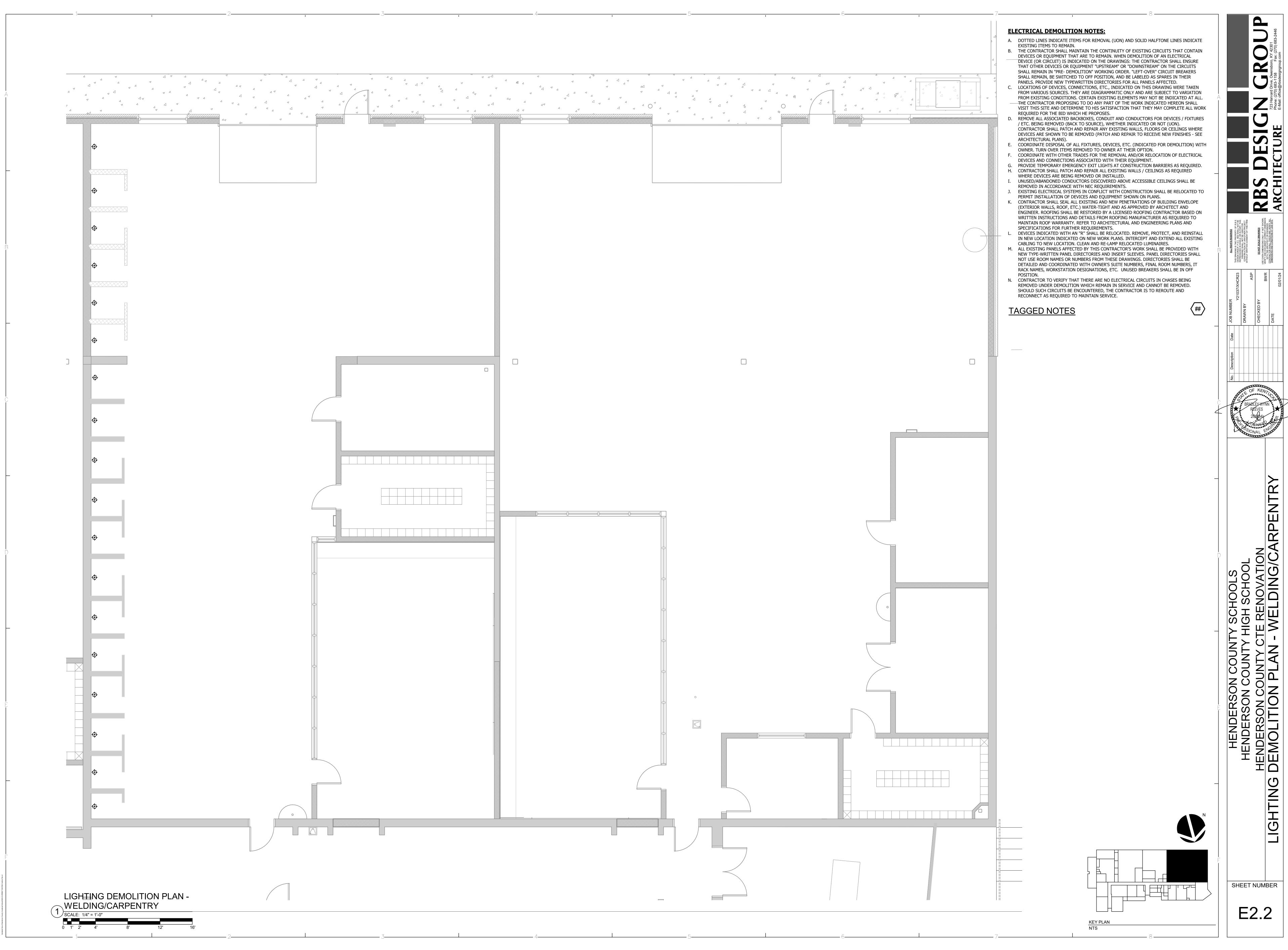


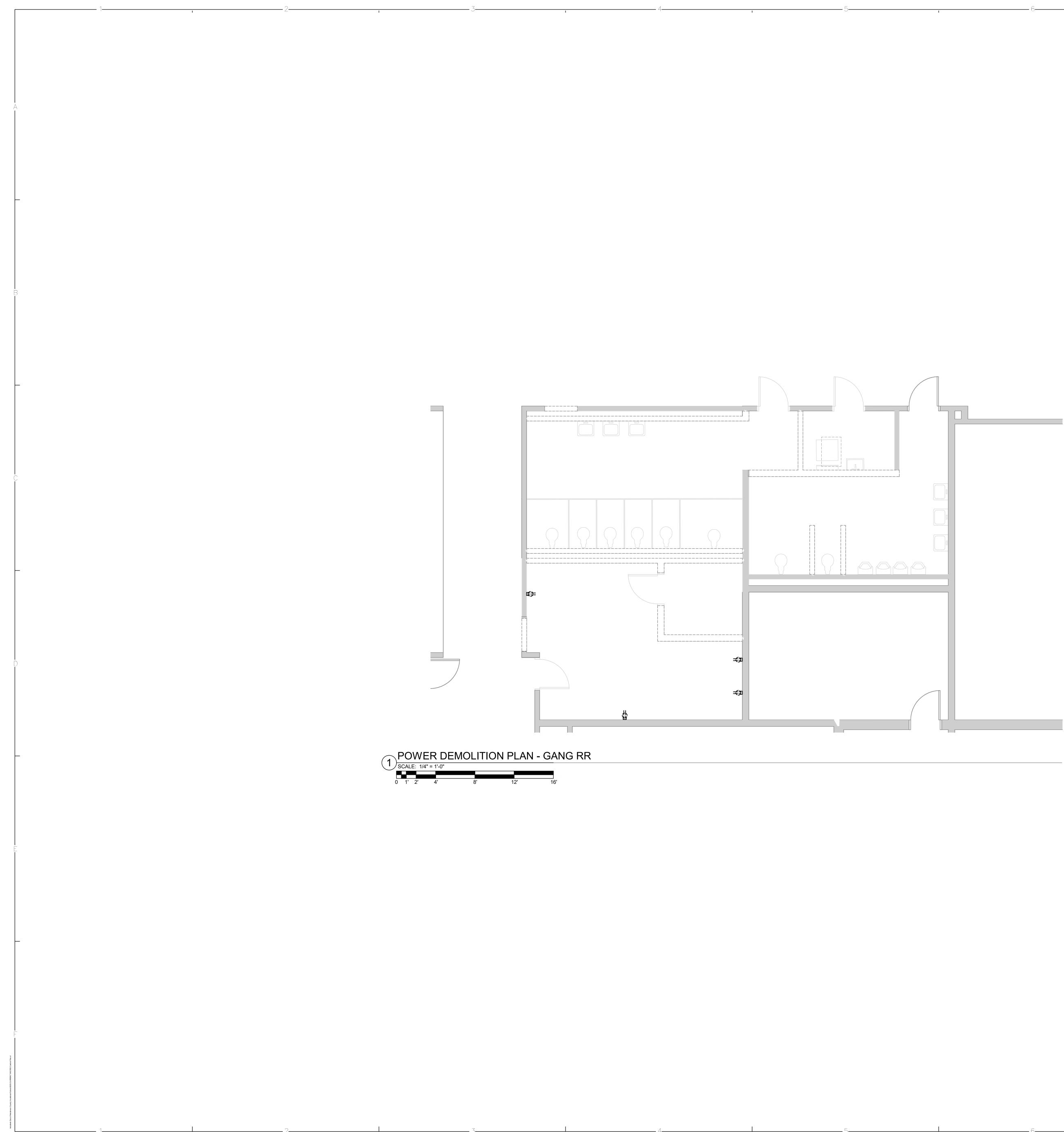


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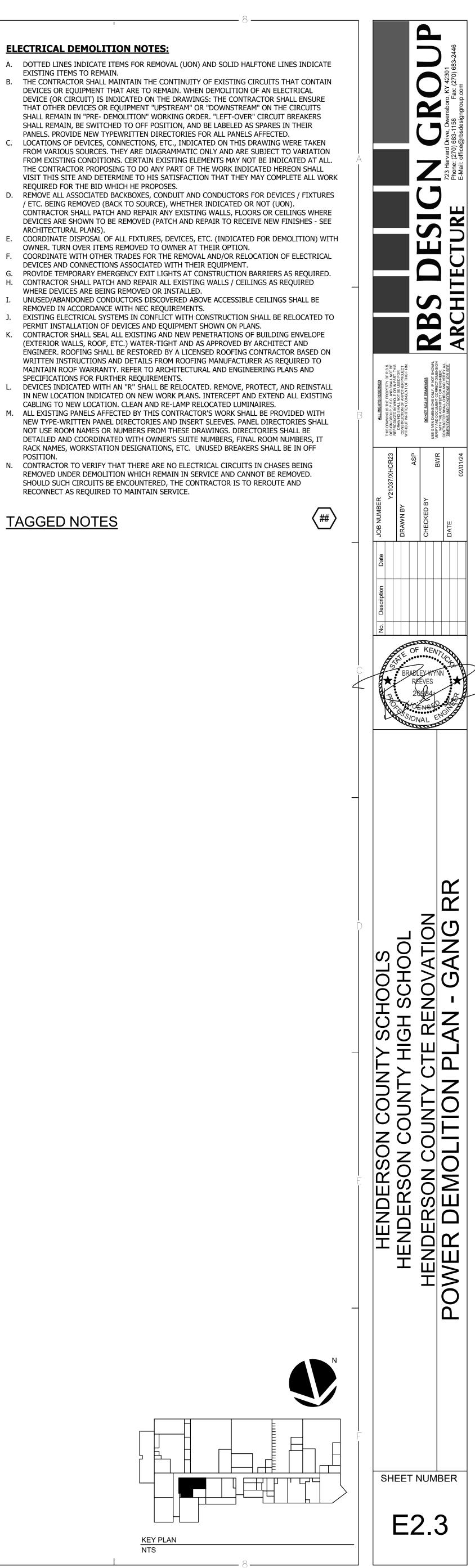
- ED2 ALL CEILING MOUNTED LIGHT FIXTURES IN THIS AREA INDICATED BY DASHED LINES TO BE REMOVED, CLEANED, AND REINSTALLED. DEMOLISH ASSOCIATED SWITCHES, BACKBOXES, CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX. REFER TO NEW WORK LIGHTING PLAN SHEET E3.0 NEW LAYOUT. (TYPICAL) ED19 DEMOLISH WALL MOUNTED BATTERY PACKS.
- ED20 DEMOLISH LIGHT FIXTURE, ASSOCIATED LIGHTING SWITCH, ASSOCIATED CONDUIT AND CONDUCTORS BACK TO ASSOCIATED ELECTRICAL PANEL.

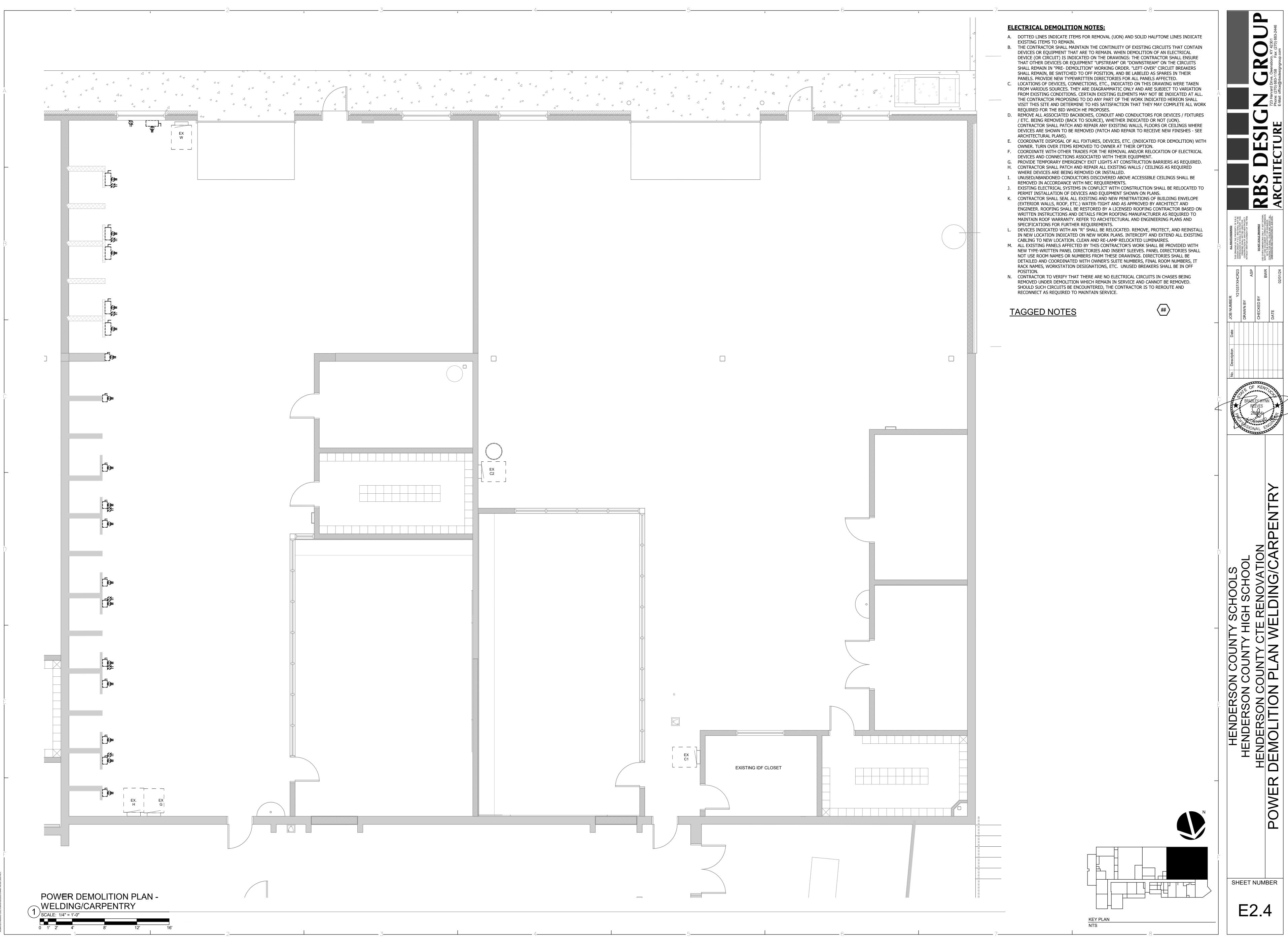


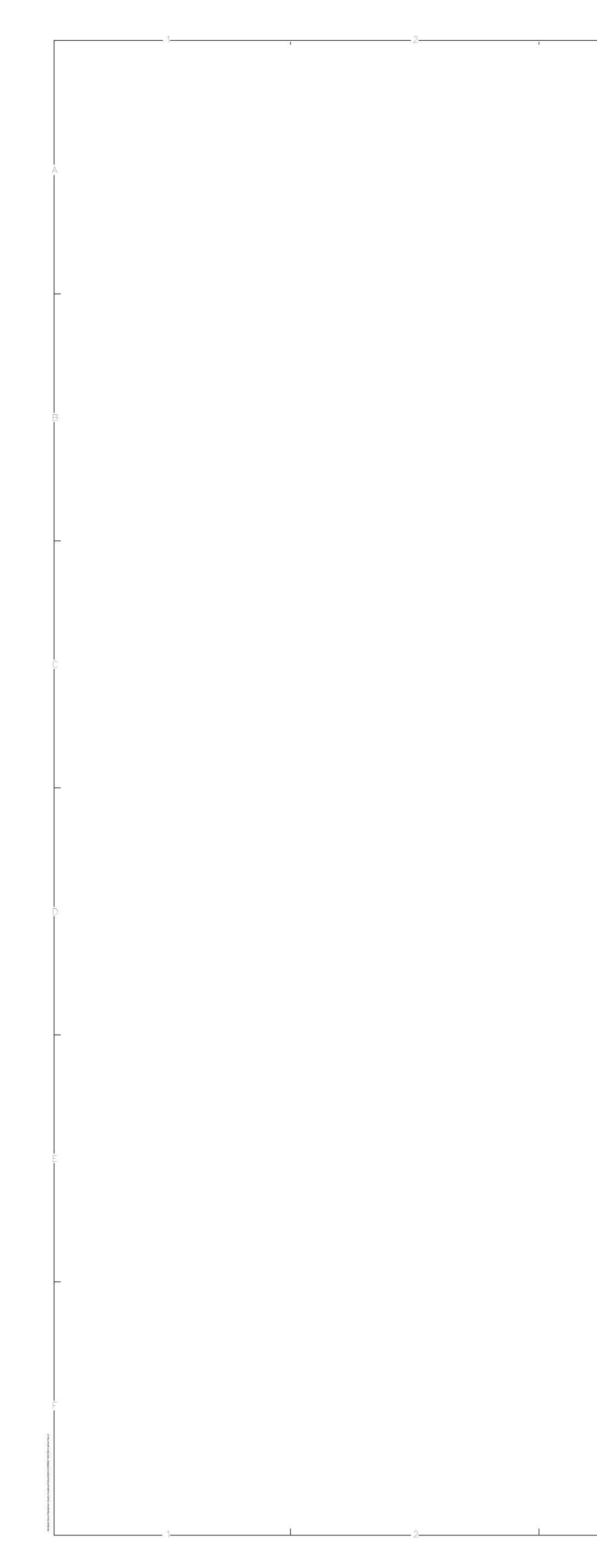


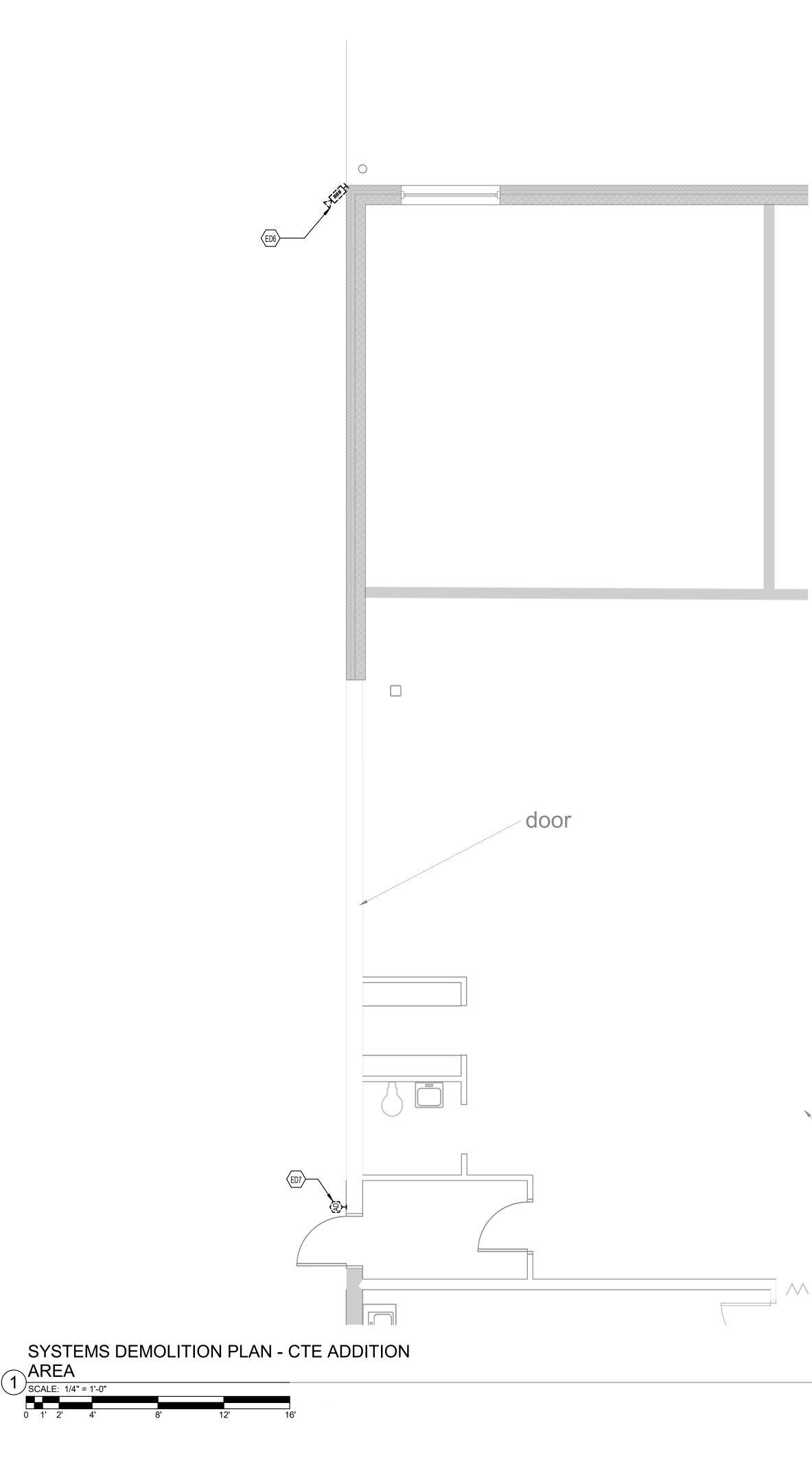


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- (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL Ι. IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N. CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.







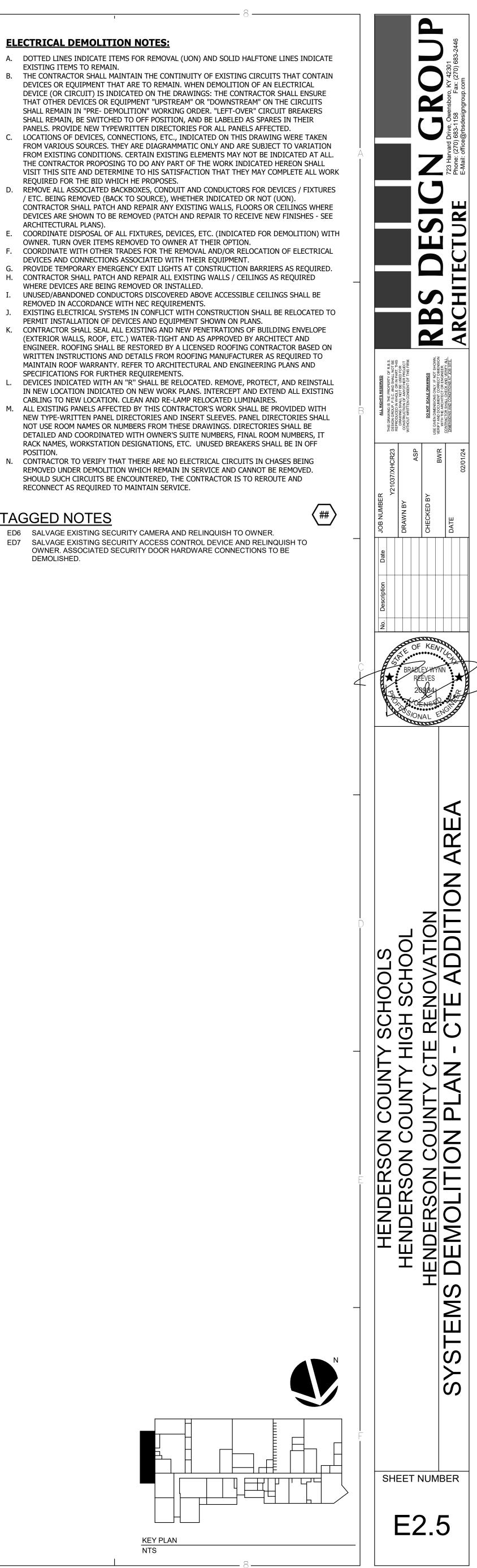


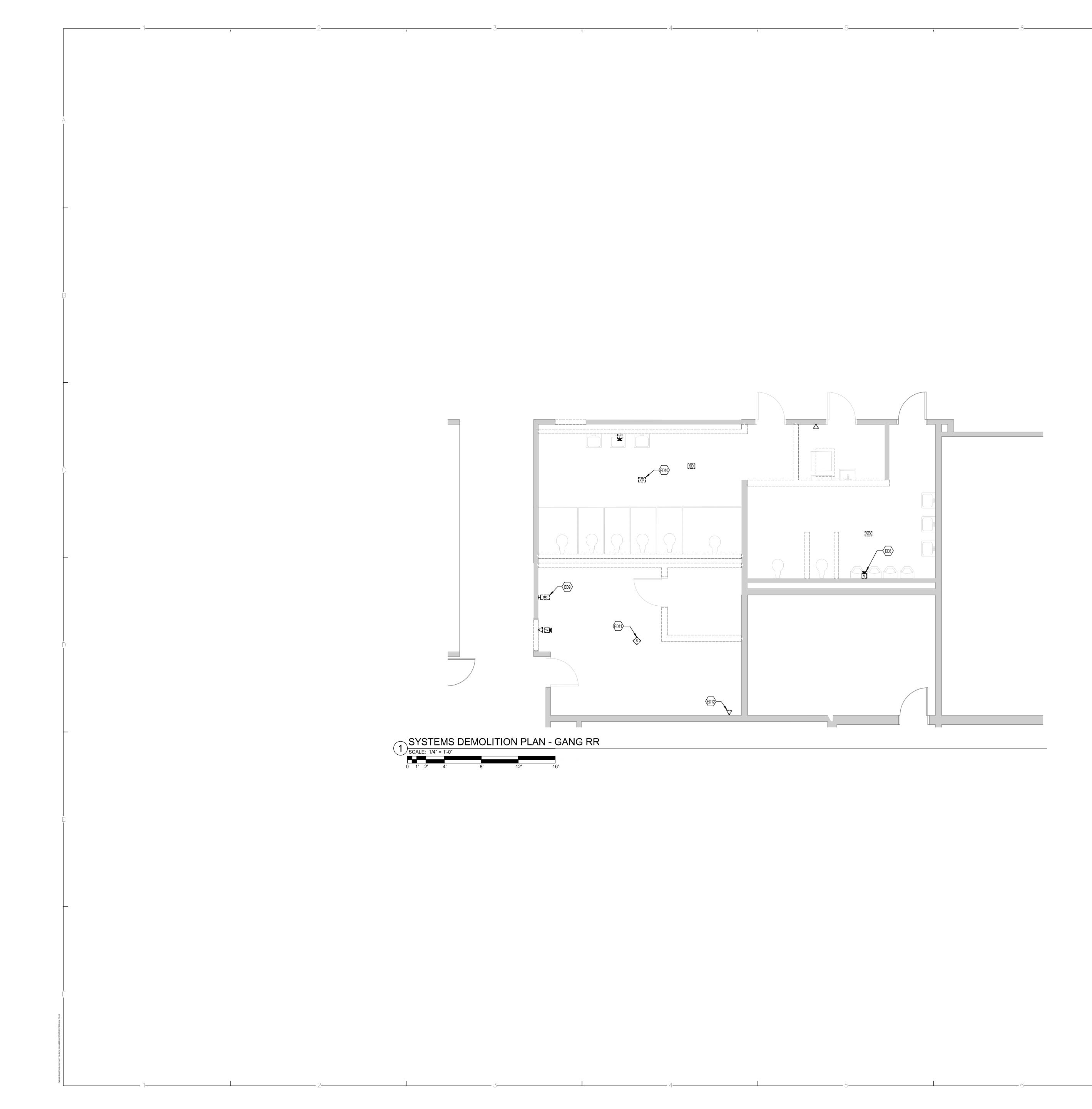
- EXISTING ITEMS TO REMAIN. B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL
- DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR
- LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK
- REQUIRED FOR THE BID WHICH HE PROPOSES. D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION. F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED. H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED
- WHERE DEVICES ARE BEING REMOVED OR INSTALLED. I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS. K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE
- ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL
- IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES. M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL
- NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N. CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

# TAGGED NOTES

ED6 SALVAGE EXISTING SECURITY CAMERA AND RELINQUISH TO OWNER. ED7 SALVAGE EXISTING SECURITY ACCESS CONTROL DEVICE AND RELINQUISH TO OWNER. ASSOCIATED SECURITY DOOR HARDWARE CONNECTIONS TO BE DEMOLISHED.

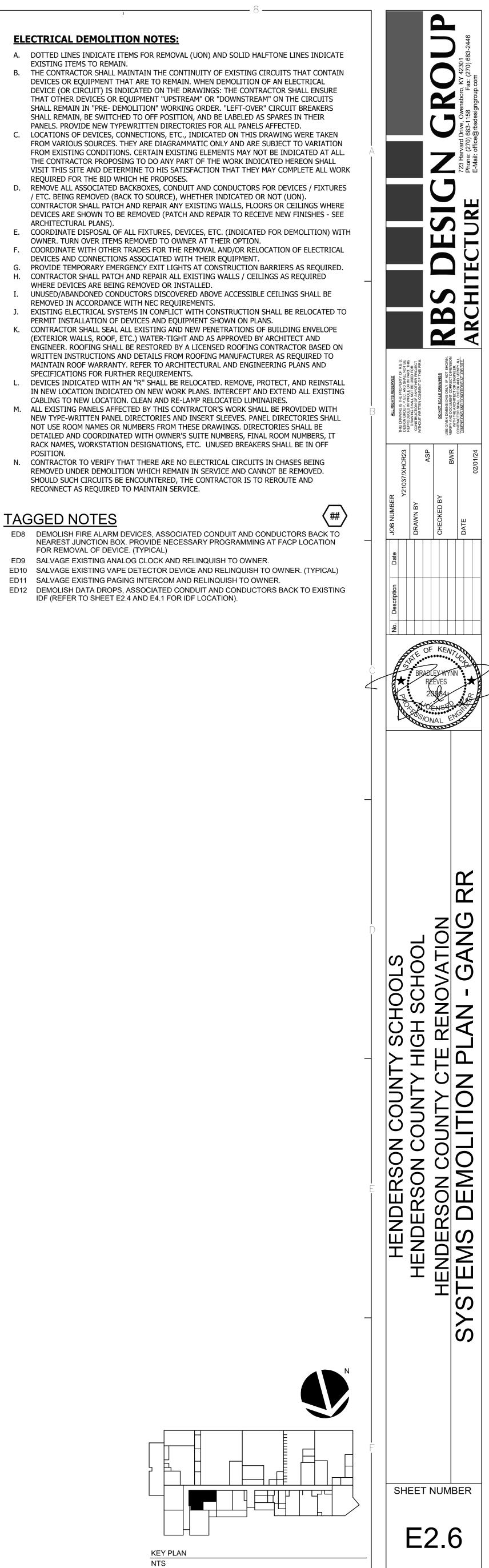
- folding wall

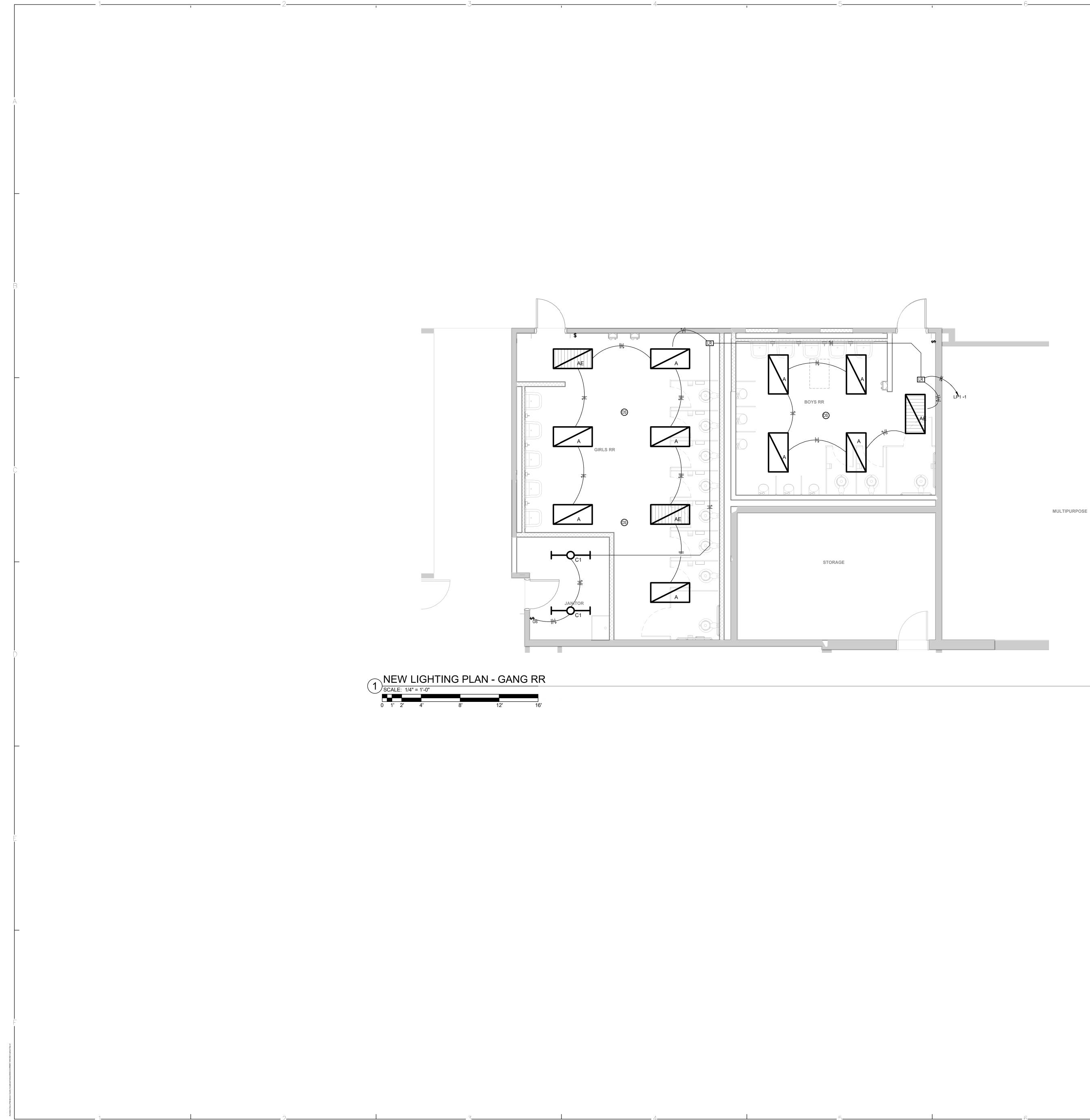




- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN. B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN
- DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR
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- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION. F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED. H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED
- WHERE DEVICES ARE BEING REMOVED OR INSTALLED. I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS. K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND
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- RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION. N. CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND

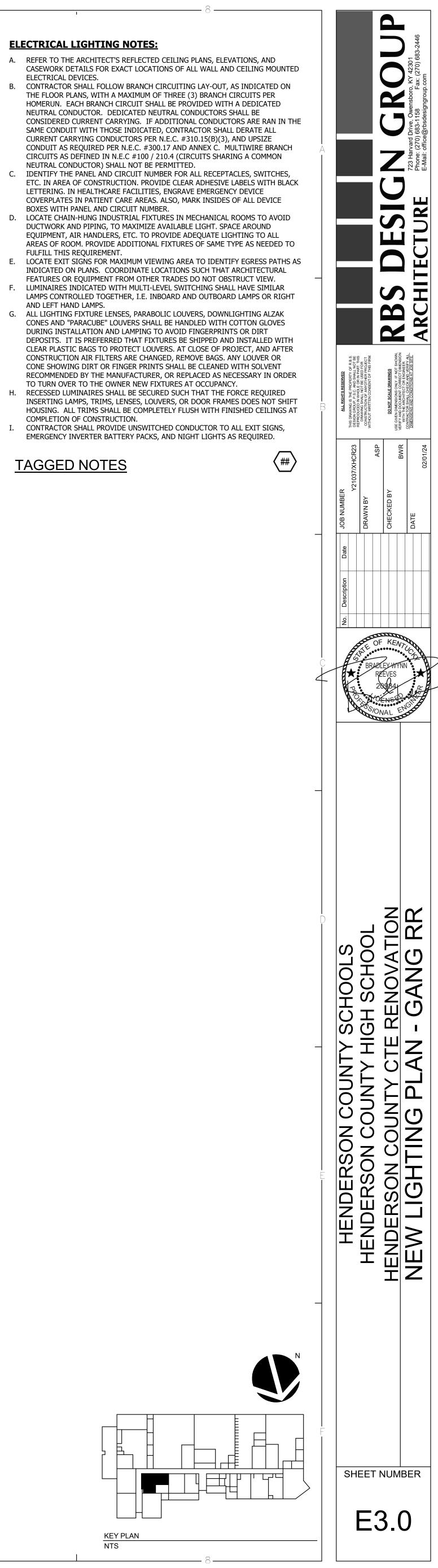
- ED8 DEMOLISH FIRE ALARM DEVICES, ASSOCIATED CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX. PROVIDE NECESSARY PROGRAMMING AT FACP LOCATION
- FOR REMOVAL OF DEVICE. (TYPICAL) ED9 SALVAGE EXISTING ANALOG CLOCK AND RELINQUISH TO OWNER.
- ED10 SALVAGE EXISTING VAPE DETECTOR DEVICE AND RELINQUISH TO OWNER. (TYPICAL)
- ED12 DEMOLISH DATA DROPS, ASSOCIATED CONDUIT AND CONDUCTORS BACK TO EXISTING

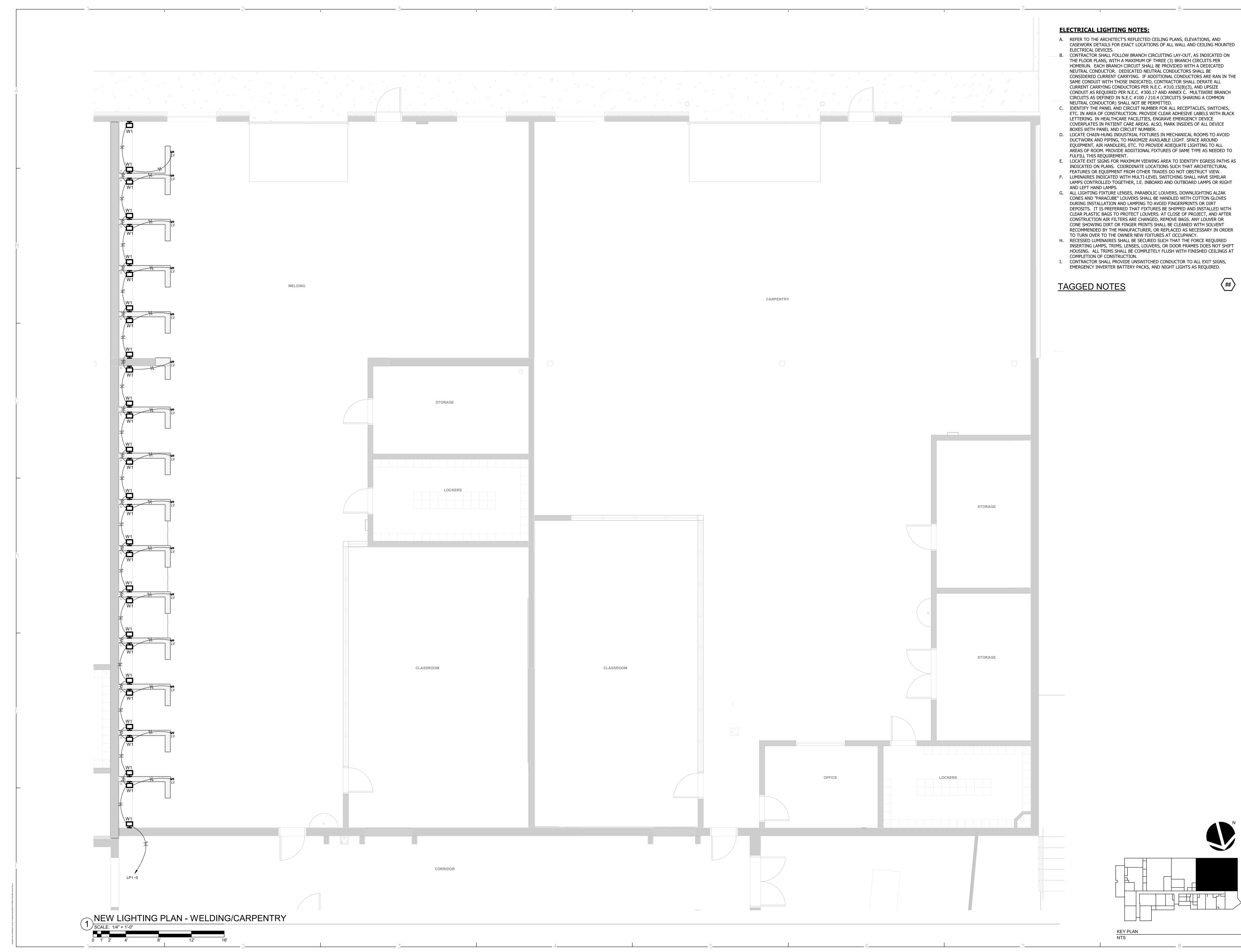


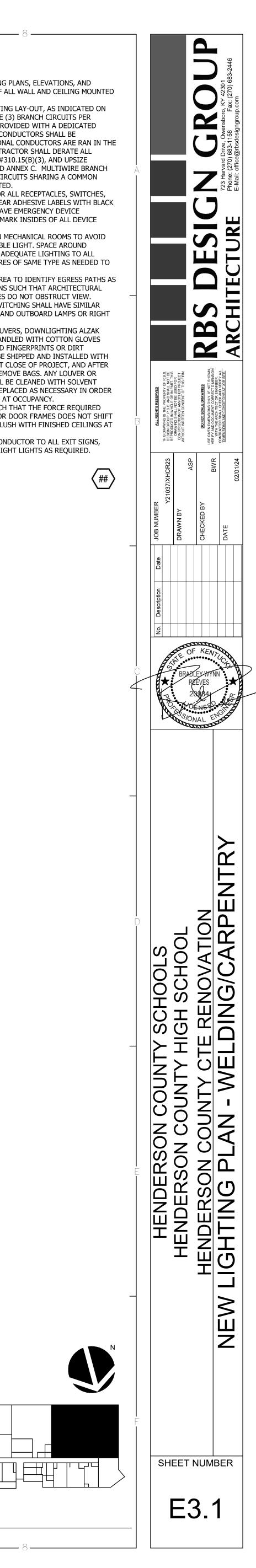


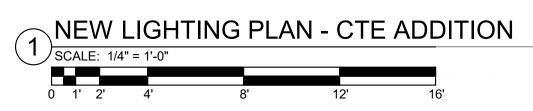
# ELECTRICAL LIGHTING NOTES:

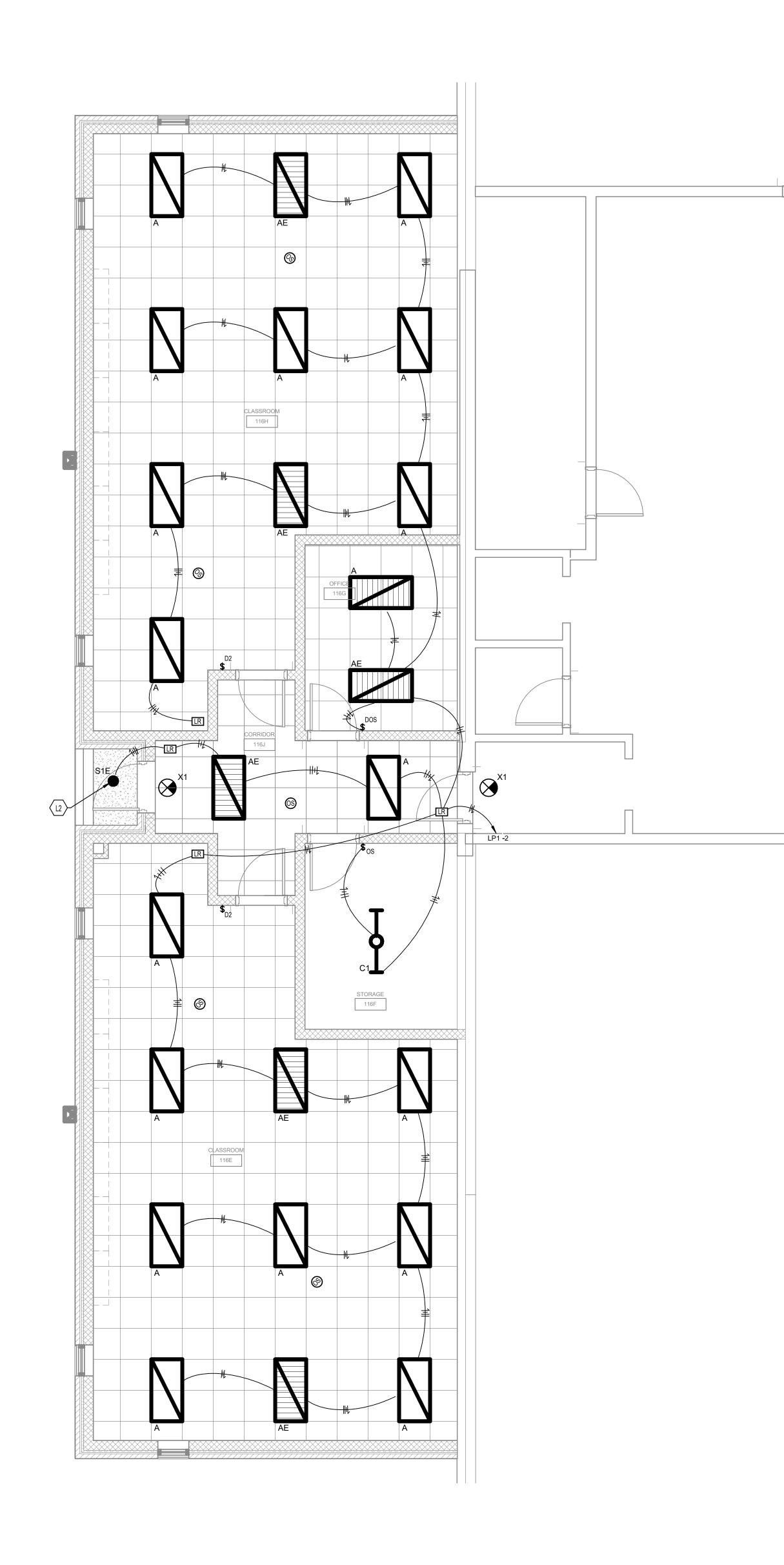
- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND ELECTRICAL DEVICES.
- NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE
- NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED. LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE
- FULFILL THIS REQUIREMENT.
- AND LEFT HAND LAMPS.
- DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT
- TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.









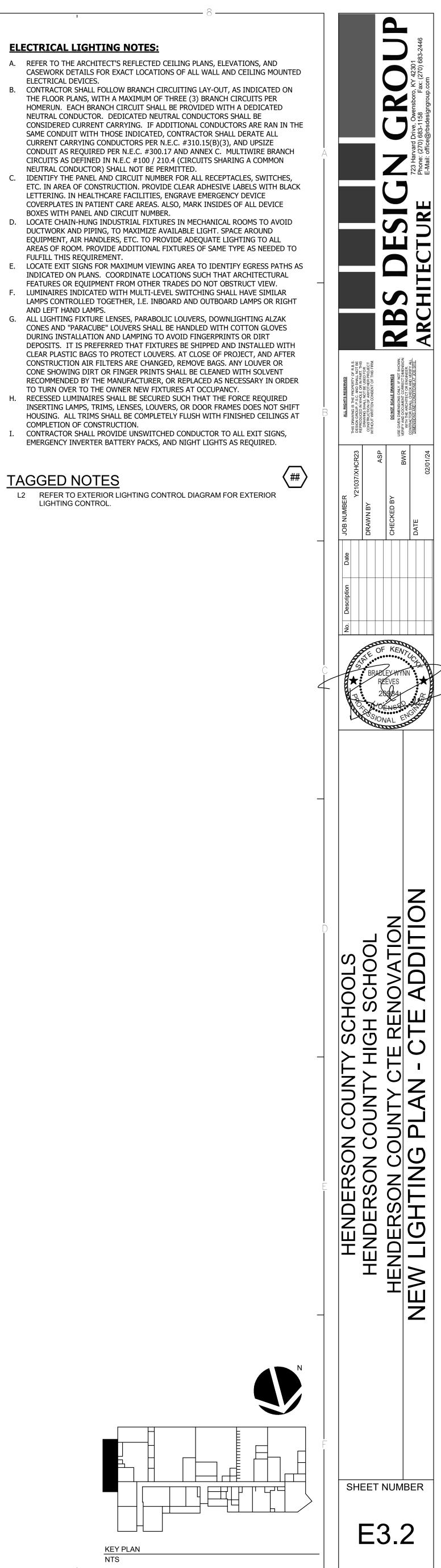


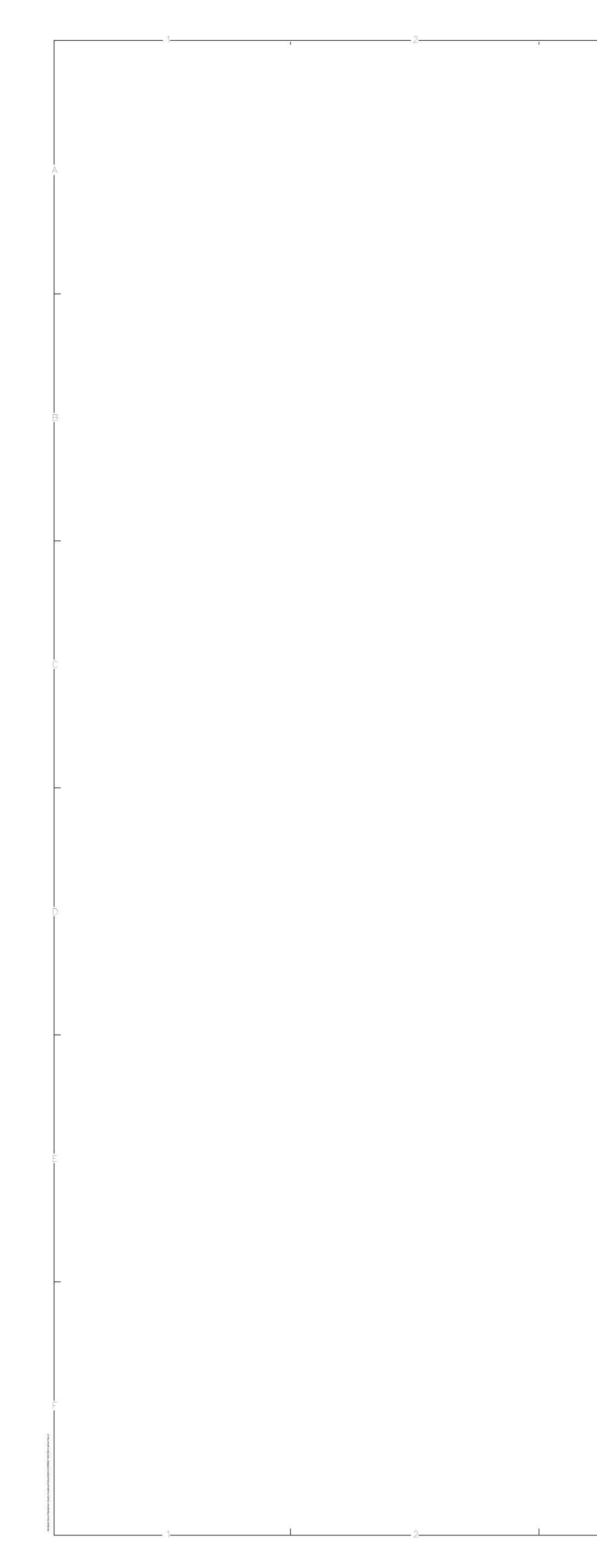
# ELECTRICAL LIGHTING NOTES:

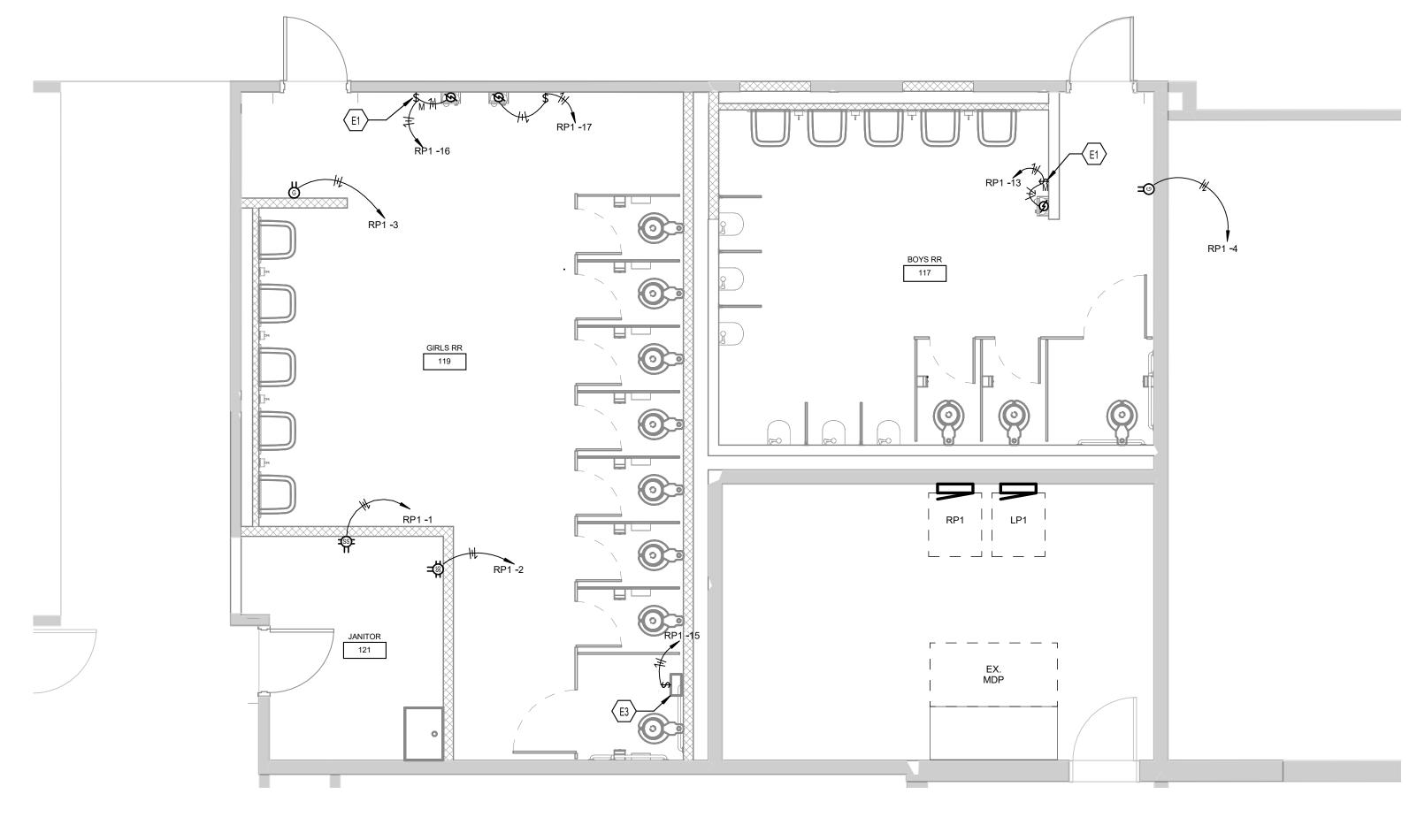
- ELECTRICAL DEVICES.
- NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE
- NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED. LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- FULFILL THIS REQUIREMENT.
- AND LEFT HAND LAMPS. G. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT
- TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY. H. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED
- COMPLETION OF CONSTRUCTION. I. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS,

# TAGGED NOTES

LIGHTING CONTROL.



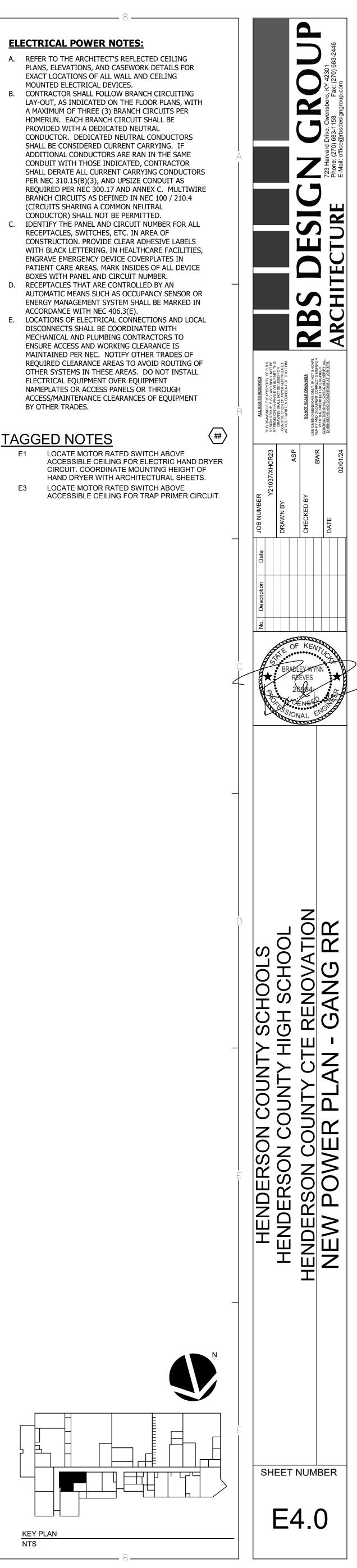




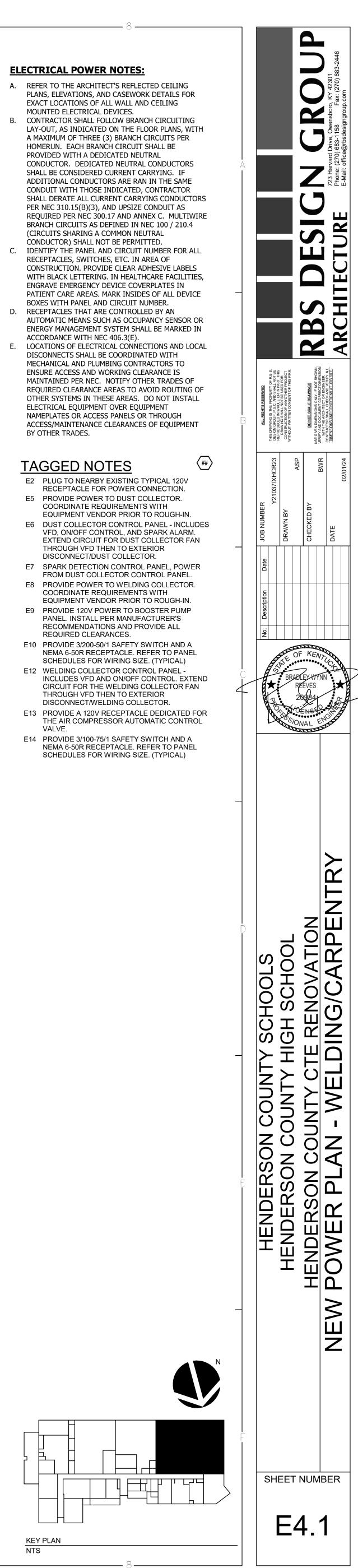
 NEW POWER PLAN - GANG RR

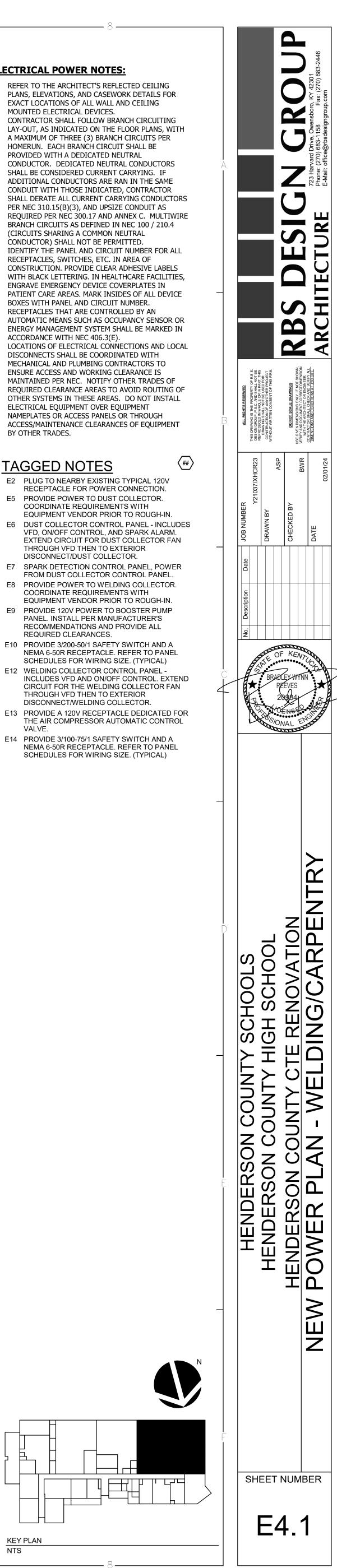
 SCALE: 1/4" = 1'-0"

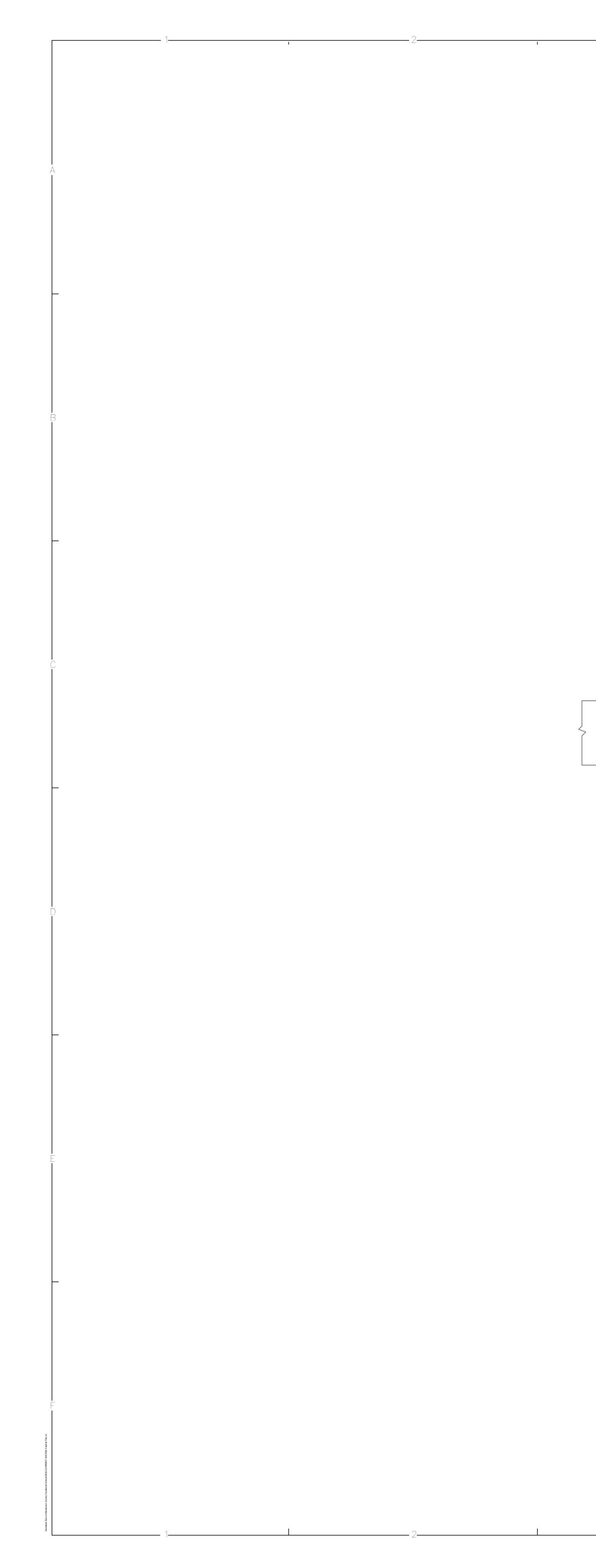
 0
 1'
 2'
 4'
 8'
 12'
 16'

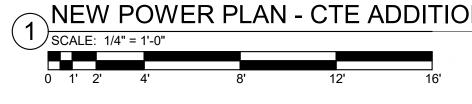


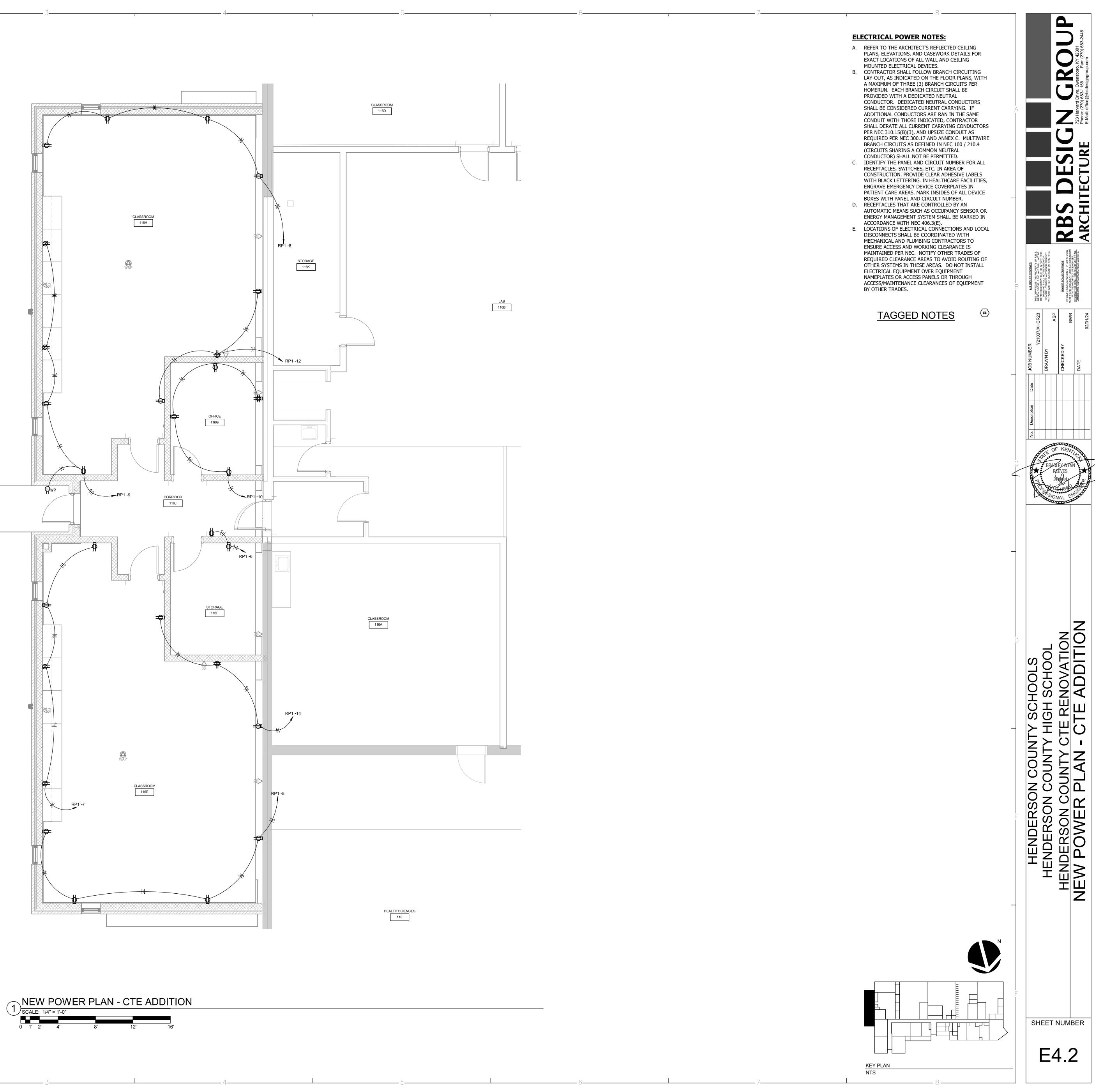


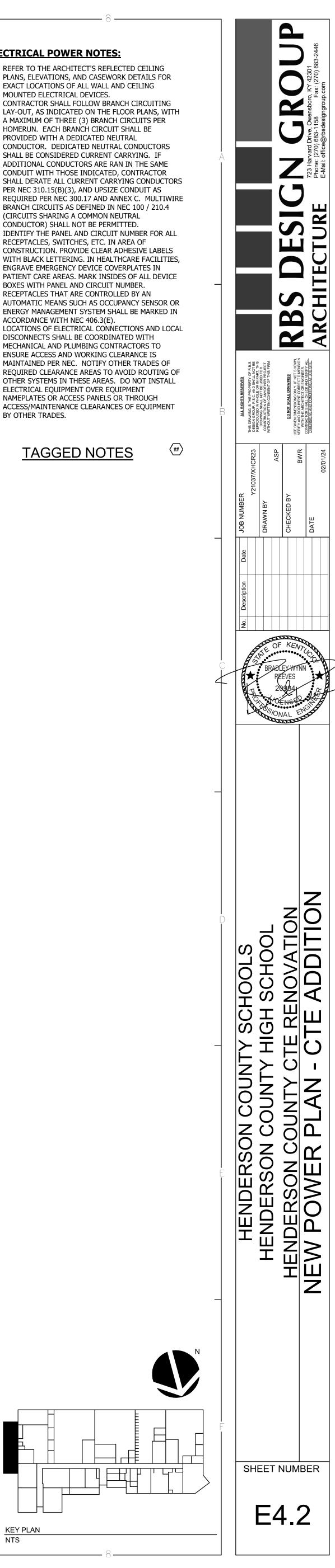


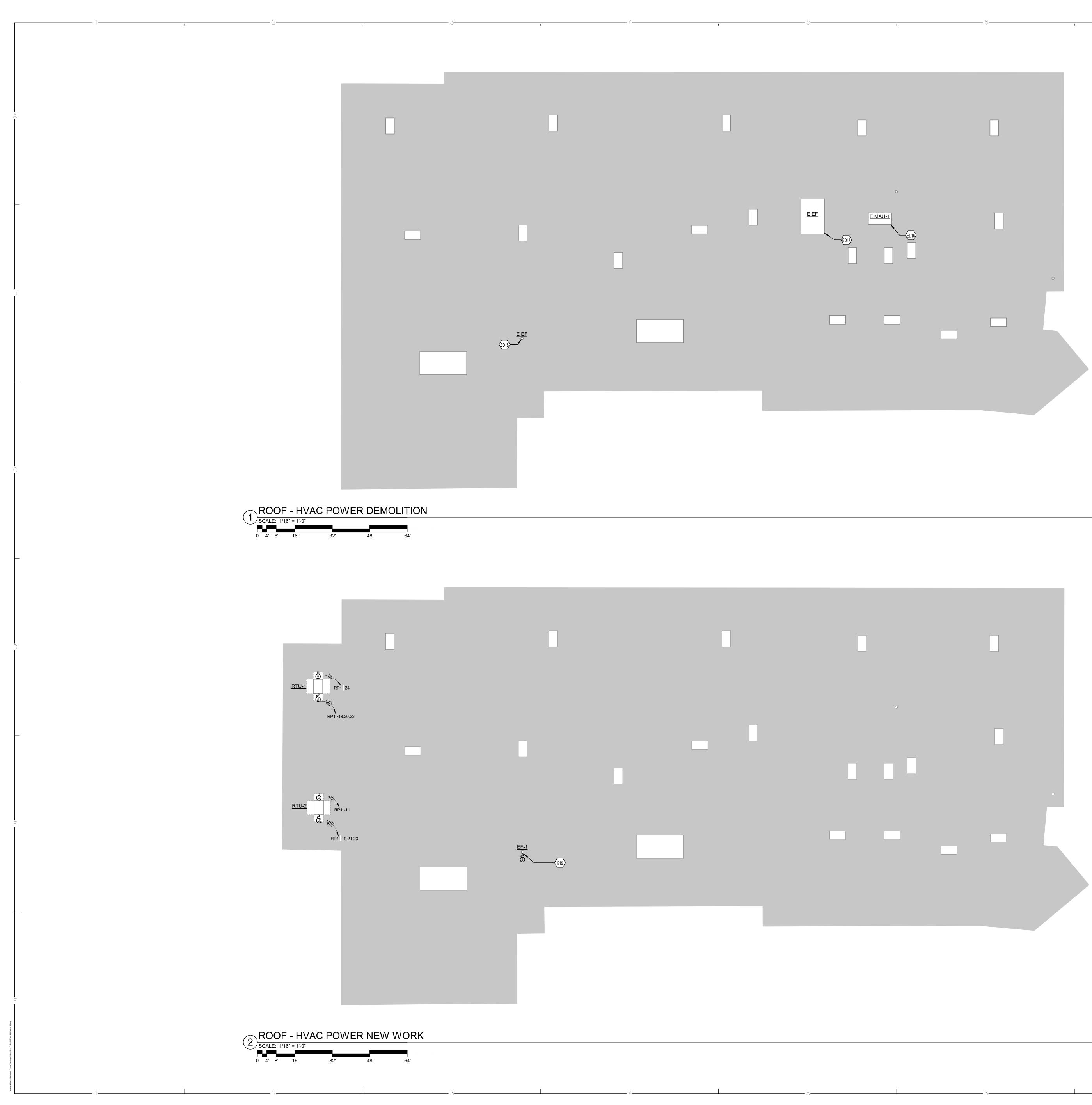










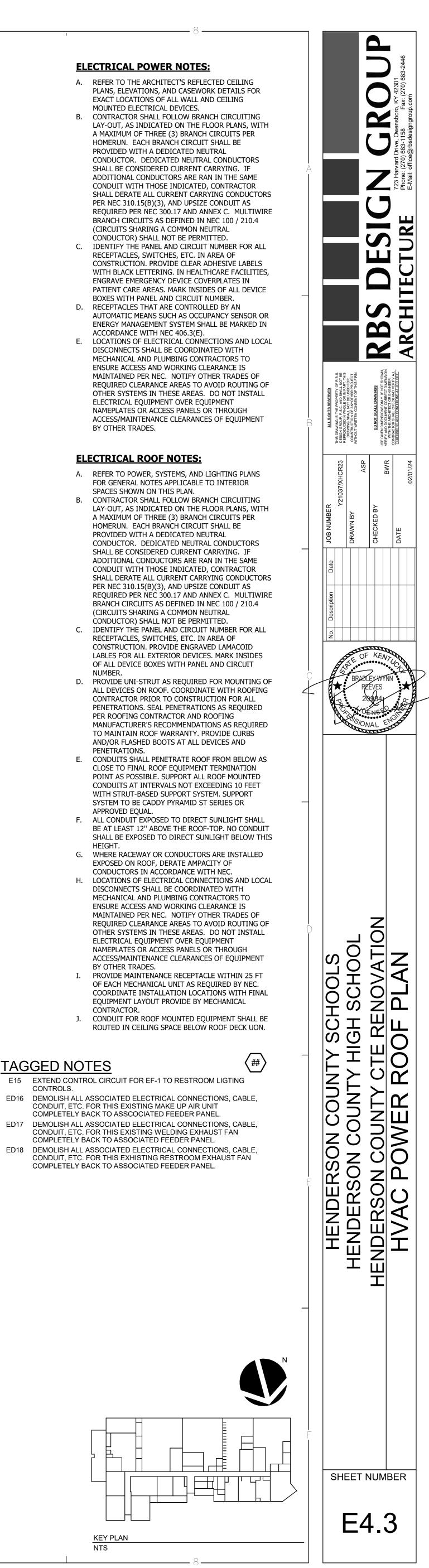


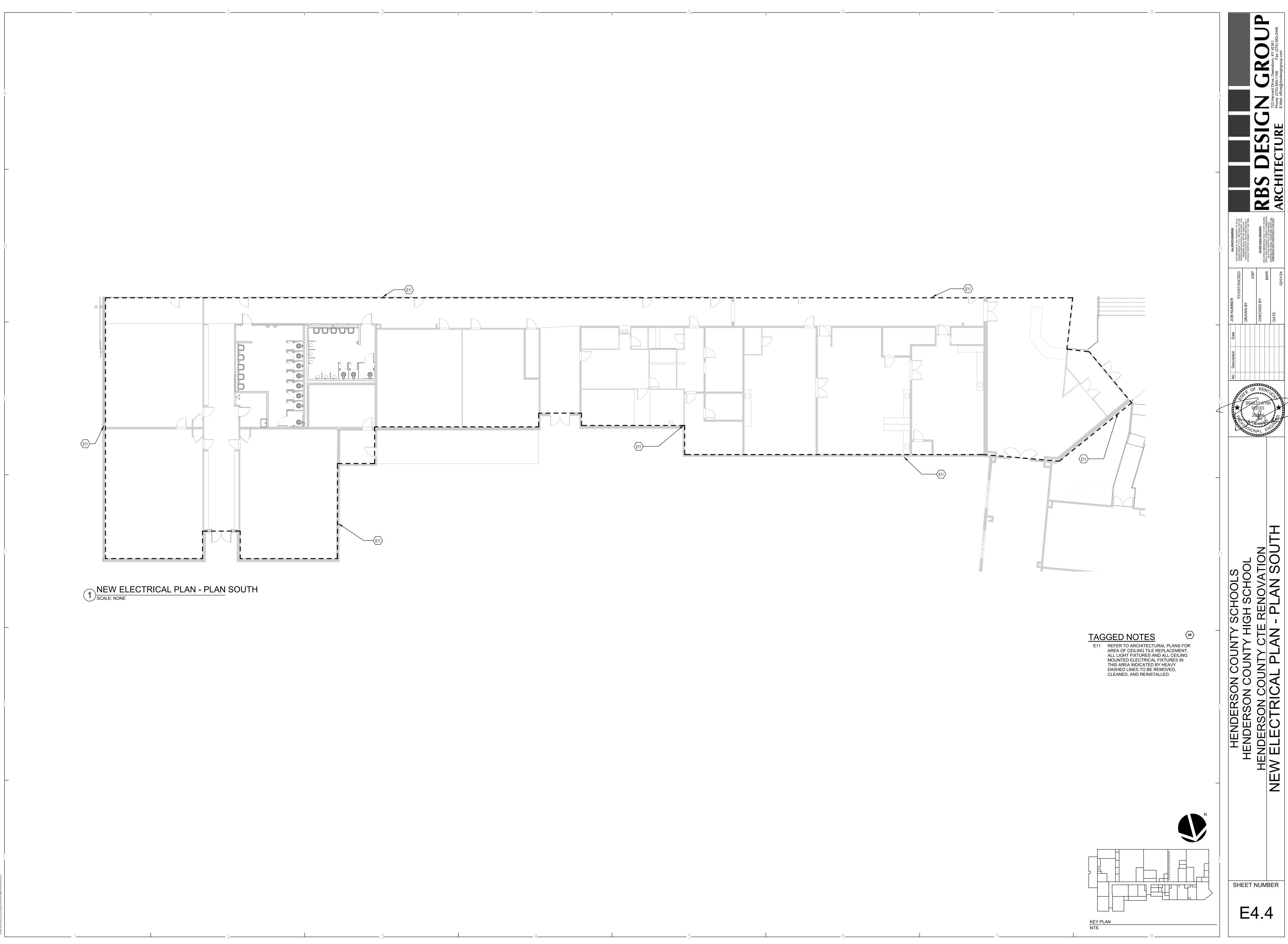
BY OTHER TRADES.

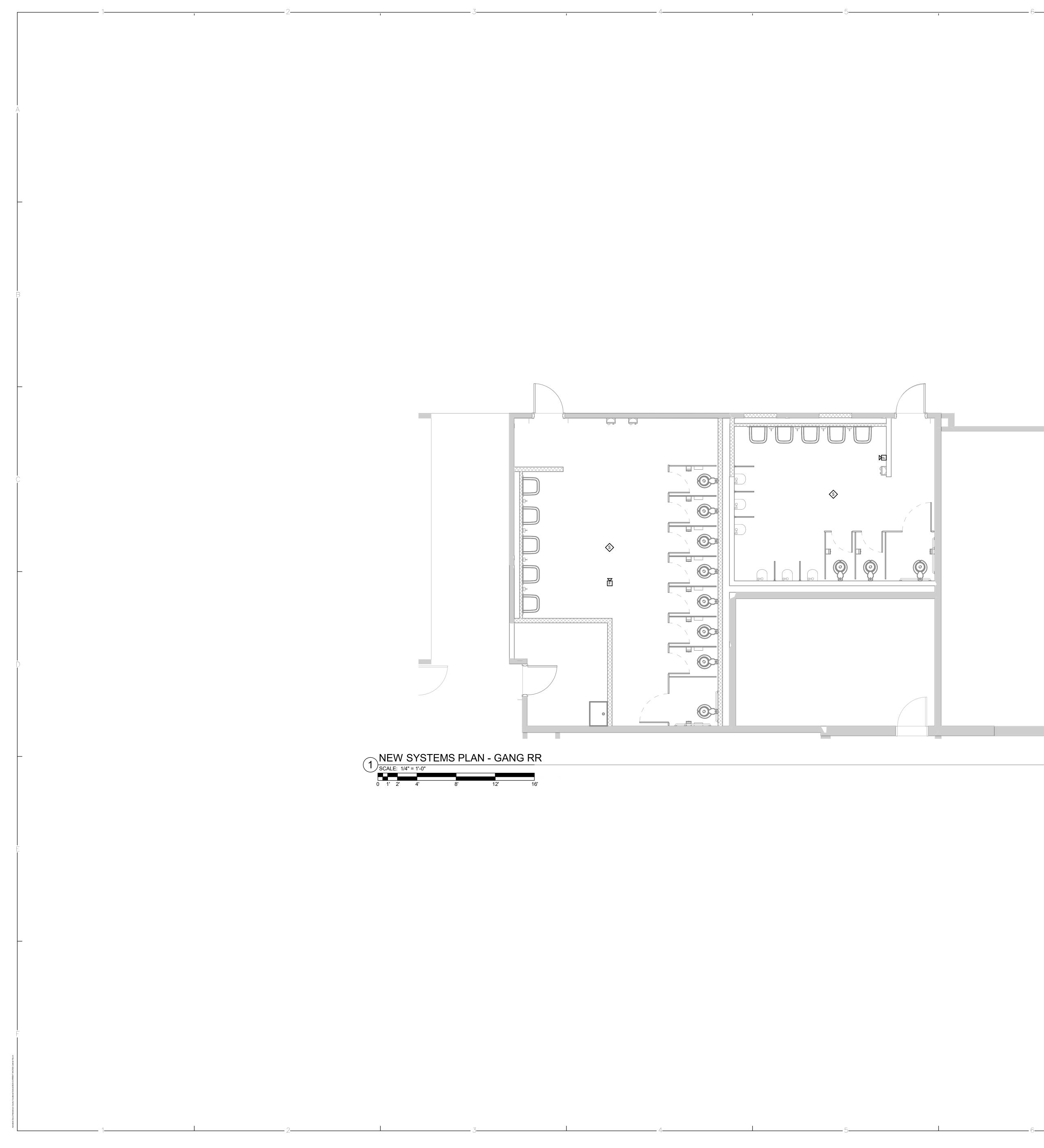
- NUMBER.
- HEIGHT.
- CONTRACTOR.

# TAGGED NOTES

CONTROLS. ED16 DEMOLISH ALL ASSOCIATED ELECTRICAL CONNECTIONS, CABLE, CONDUIT, ETC. FOR THIS EXISTING MAKE UP AIR UNIT COMPLETELY BACK TO ASSCOCIATED FEEDER PANEL. ED17 DEMOLISH ALL ASSOCIATED ELECTRICAL CONNECTIONS, CABLE, CONDUIT, ETC. FOR THIS EXISTING WELDING EXHAUST FAN COMPLETELY BACK TO ASSOCIATED FEEDER PANEL. ED18 DEMOLISH ALL ASSOCIATED ELECTRICAL CONNECTIONS, CABLE,



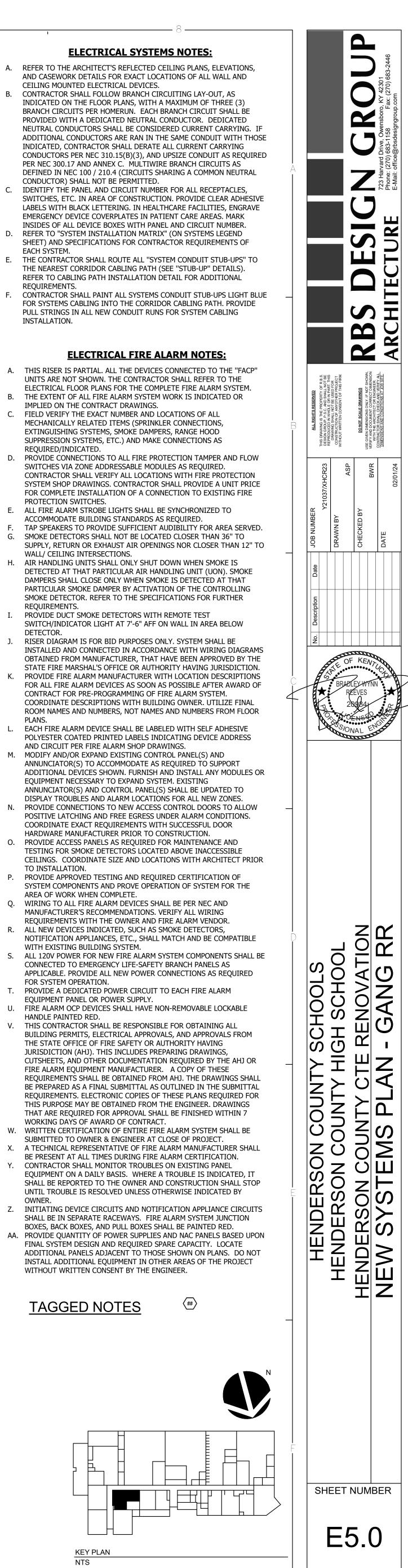


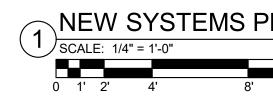


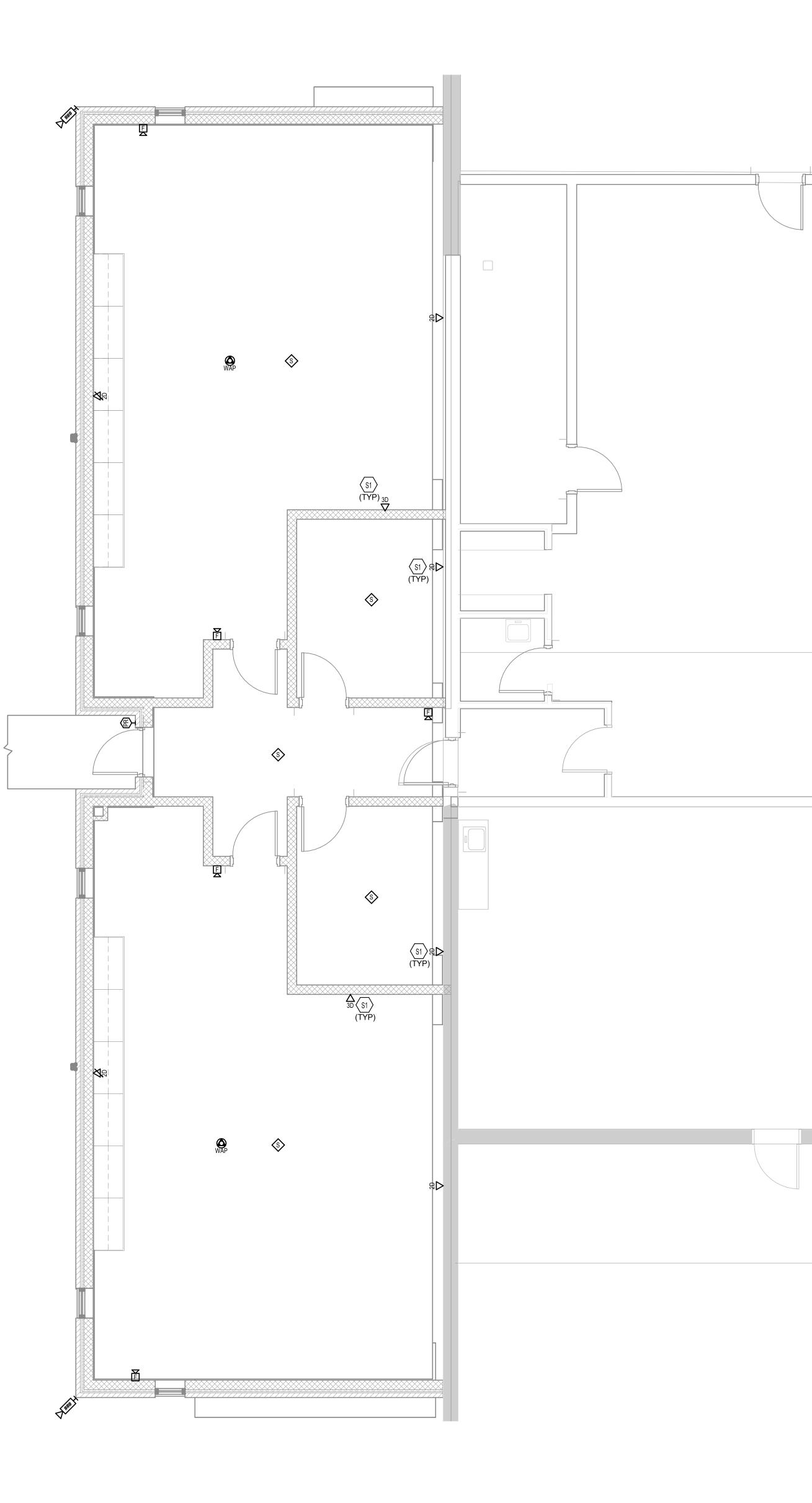
- CEILING MOUNTED ELECTRICAL DEVICES.
- EACH SYSTEM. REQUIREMENTS.
- INSTALLATION.

- C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL
- REQUIRED/INDICATED.
- PROTECTION SWITCHES. E. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
- WALL/ CEILING INTERSECTIONS.
- REQUIREMENTS.
- DETECTOR.
- PLANS. AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
- EQUIPMENT NECESSARY TO EXPAND SYSTEM. EXISTING
- HARDWARE MANUFACTURER PRIOR TO CONSTRUCTION.
- TO INSTALLATION. AREA OF WORK WHEN COMPLETE.
- R. ALL NEW DEVICES INDICATED, SUCH AS SMOKE DETECTORS,
- WITH EXISTING BUILDING SYSTEM.
- FOR SYSTEM OPERATION. EQUIPMENT PANEL OR POWER SUPPLY.
- HANDLE PAINTED RED.
- WORKING DAYS OF AWARD OF CONTRACT.

- OWNER.
- WITHOUT WRITTEN CONSENT BY THE ENGINEER.



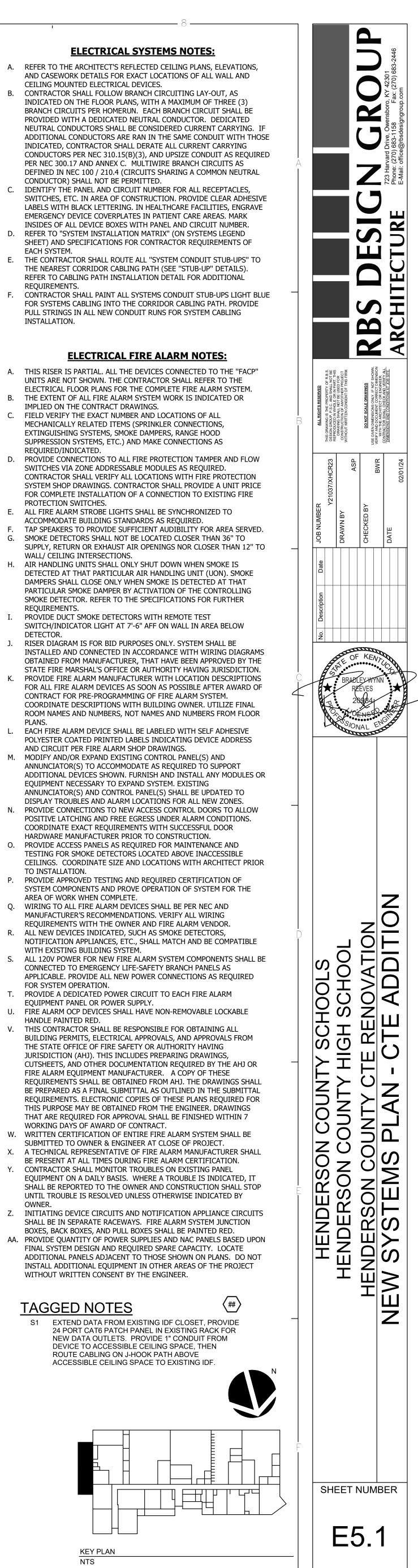


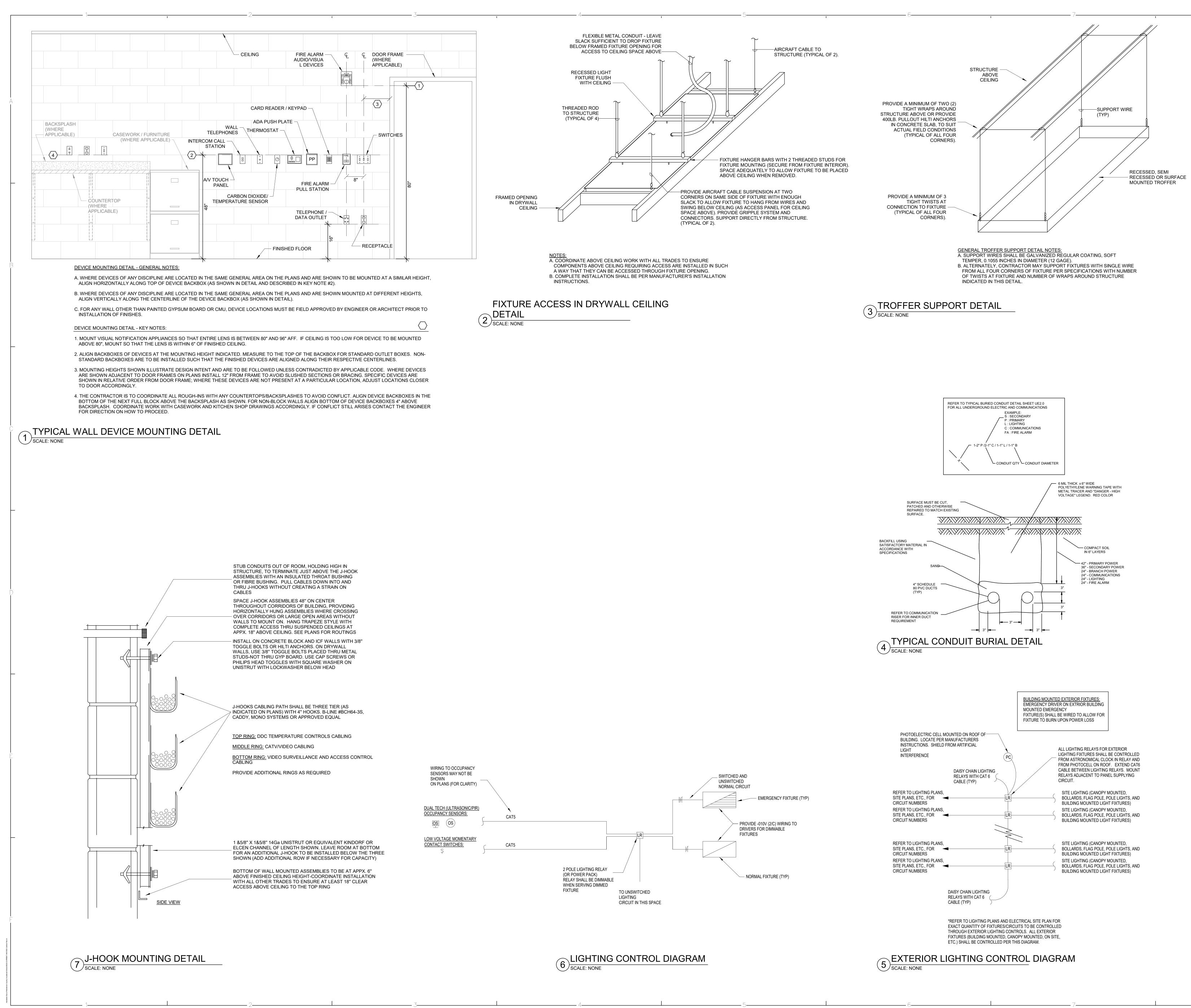


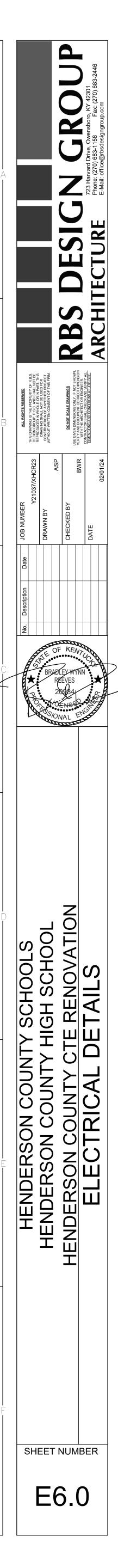
# NEW SYSTEMS PLAN - CTE ADDITION

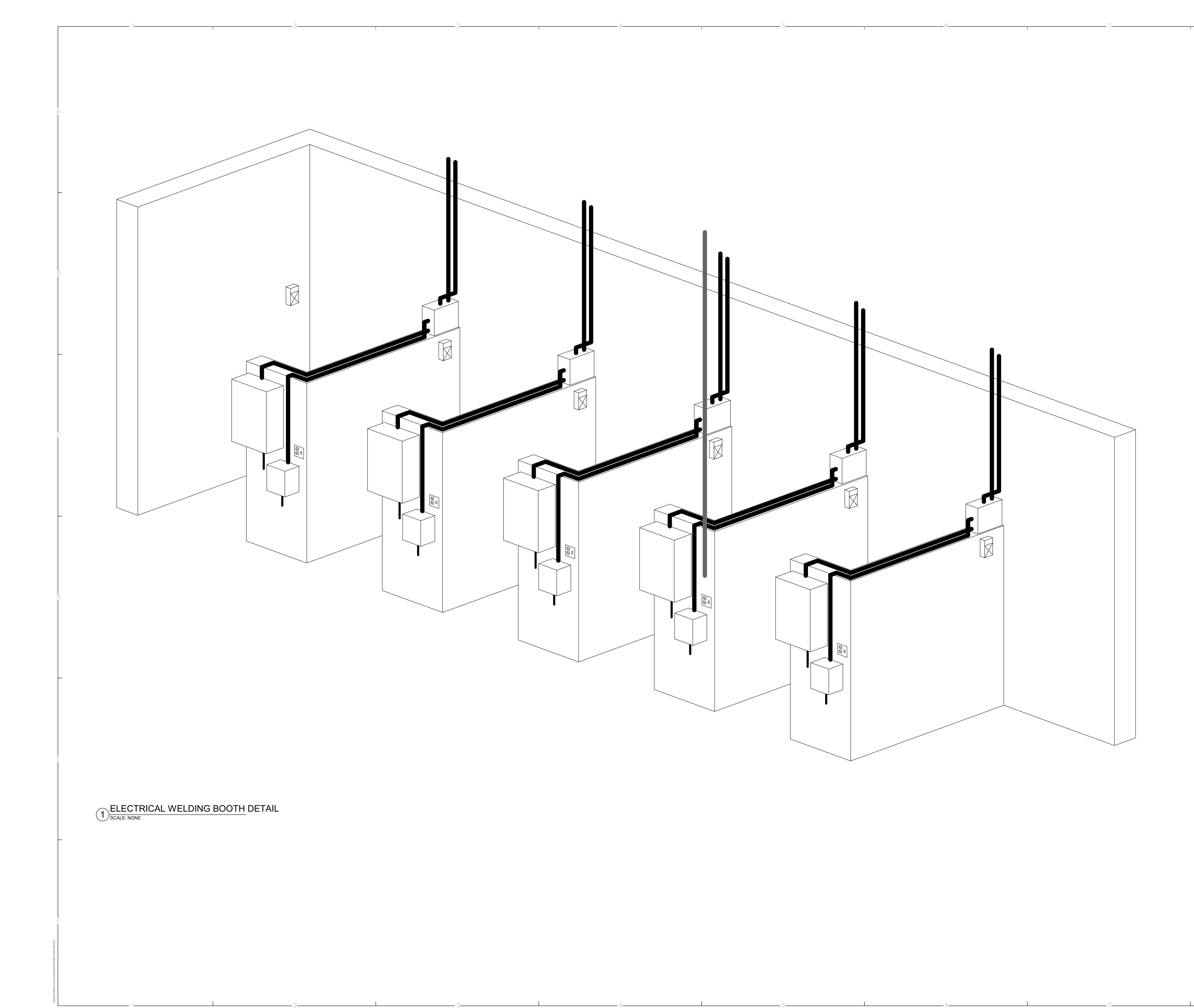
- CEILING MOUNTED ELECTRICAL DEVICES.
- CONDUCTOR) SHALL NOT BE PERMITTED.
- EACH SYSTEM.
- REQUIREMENTS. INSTALLATION.

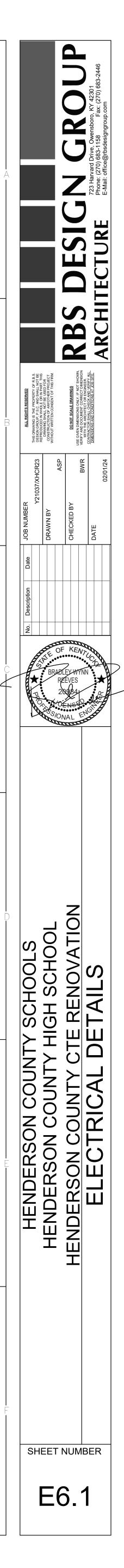
- IMPLIED ON THE CONTRACT DRAWINGS. C. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS,
- SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
- PROTECTION SWITCHES. ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
- WALL/ CEILING INTERSECTIONS. REQUIREMENTS.
- PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST DETECTOR.
- PLANS. AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
- EQUIPMENT NECESSARY TO EXPAND SYSTEM. EXISTING
- HARDWARE MANUFACTURER PRIOR TO CONSTRUCTION. TO INSTALLATION.
- AREA OF WORK WHEN COMPLETE.
- WITH EXISTING BUILDING SYSTEM.
- FOR SYSTEM OPERATION. EQUIPMENT PANEL OR POWER SUPPLY.
- HANDLE PAINTED RED.
- WORKING DAYS OF AWARD OF CONTRACT.
- OWNER.

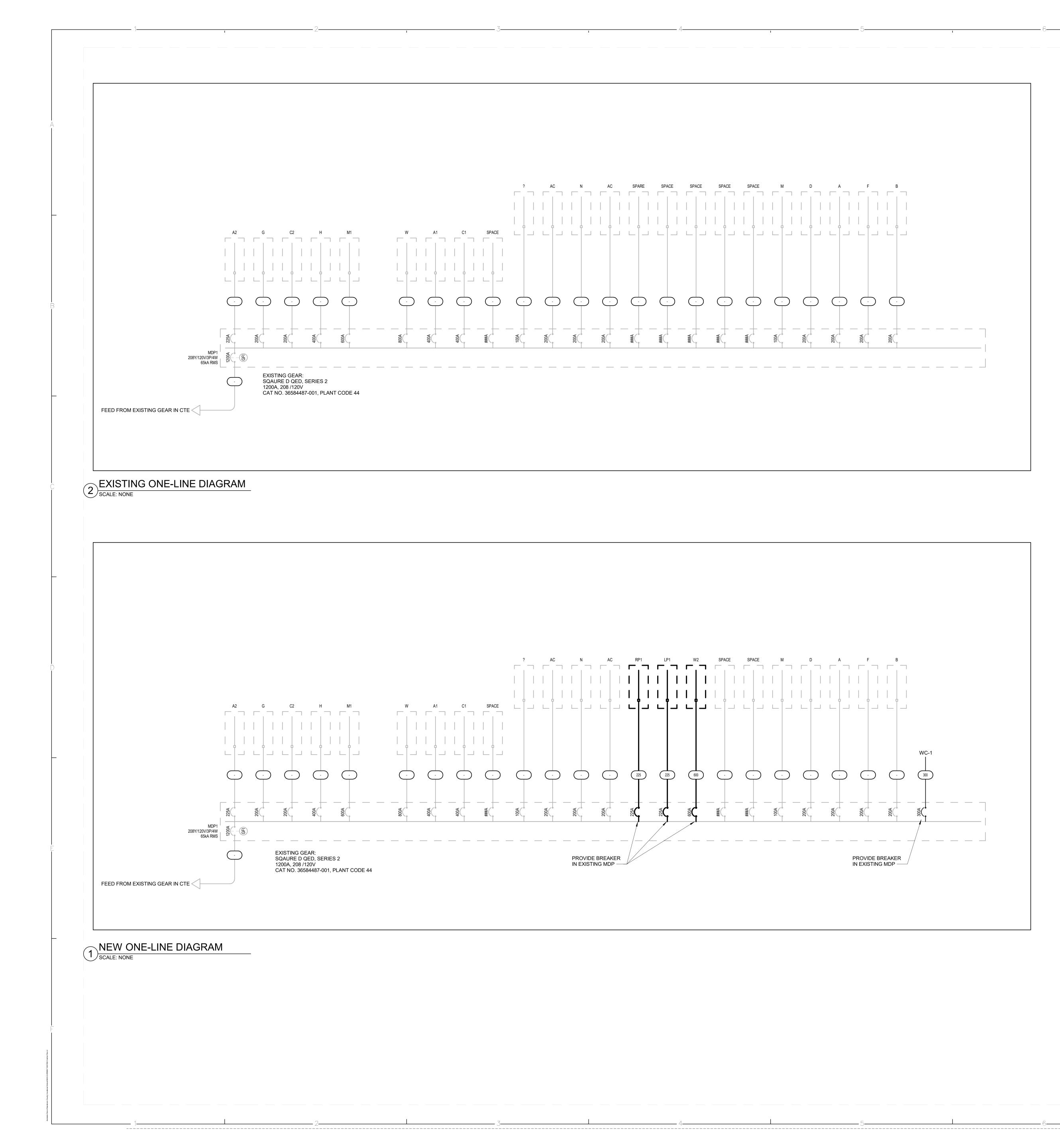












# ONE-LINE FEEDER SCHEDULE (COPPE

NOTES: • TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL. TAG OCPD SETTING WIRE SIZE GR 20/3 (4W) (4) #12 30/3 (4W) (4) #10 40/3 OR 50/3 (4W) (4) #8 60/3 (4W) (4) #6 70/3 OR 80/3 (4W) (4) #4 100 90/3 OR 100/3 (4W) (4) #3 110/3 (4W) (4) #2 110 125 125/3 (4W) (4) #1 150 (4) #1/0 150/3 (4W) 175 175/3 (4W) (4) #2/0 200 200/3 (4W) (4) #3/0 225 250 300 350 225/3 (4W) (4) #4/0 250/3 (4W) (4) #250 KCMIL 300/3 (4W) (4) #350 KCMIL (4) #500 KCMIL 350/3 (4W) 400 400/3 (4W) (4) #500 KCMIL 2 RUNS OF (4) - #350 KCMIL/PHASE 600 600/3 (4W) EX EXISTING TO REMAIN

ONE-LINE DIAGRAM

NEW

NEW ENCLOSU EXISTING

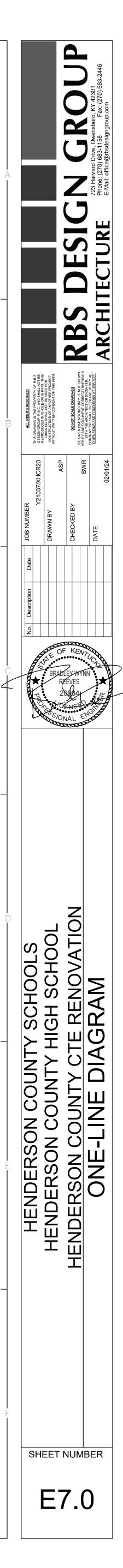
EXISTING ENCL

ONE-LINE NEW WORK TAGGED NOTES

-	8	

ER)	
EQUIP.	CONDUIT
OUND SIZE	SIZE
-	-
(1) #12	3/4"
(1) #10	3/4"
(1) #10	1"
(1) #10	1"
(1) #8	1-1/4"
(1) #8	1-1/4"
(1) #6	1-1/2"
(1) #6	1-1/2"
(1) #6	2"
(1) #6	2"
(1) #6	2" 2"
(1) #4	2-1/2"
(1) #4	3"
(1) #4	3"
(1) #3	3-1/2"
(1) #3	3-1/2"
(1) #1	3"

I LINETYPE LEGEND
SURE



		ELEC - LUMINAIRE S	CHEDULE							
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUALS	LAMPS / CCT	DRIVER	MINIMUM LUMENS	MOUNTING	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A	2X4 LED RECESSED TROFFER	2BLT4R-48LHE-LP835		40K		4900	RECESSED	34	120	
AE	2X4LED RECESSED TROFFER WITH INTEGRAL EMERGENCY BATTERY	2BLT4R-48LHE-LP835-E10WLCP		40K		4900	RECESSED	34	120	
C1	48" LED STRIPLIGHT	HZL1N-L48		40K		5000	SUSPENDED	0	120	
EM								0		
S1E	6" RECESSED LED CAN LIGHT FIXTURE WITH REMOTE EMERGENCY BATTERY	GOTHAM EVO SERIES		40K		2000	RECESSED	20	120	
W1	LED VAPOR PROOF, VANDAL RESISTANT WALL MOUNTED WELDING BOOTH LIGHT	ECLIPSE 220 SERIES		40K		1200	WALL	25	120	
X1	LED EXIT SIGN	LITHONIA TLE SERIES		40K		10	RECESSED	2	120	

# PANELBOARD AND WIRING SCHEDULE

	PANEL: LP1					MAIN	IS TYPI		В		PANE	L IN	ITERRU	PTING RATING: <en< th=""><th></th></en<>	
	<b>VOLTAGE:</b> 208Y/120V,3P,4W						SPI							LOCATION: STO	
	AMPERES: 225 A					MO	UNTING	G: SUF	RFACE	-				SUPPLY FROM: EX.	MDP
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Ρ	СКТ		4		В	C	СКТ	P	OCP	HOT, NEUT, GND	CI
	LTNG	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.8				2	1	20	1-#10, 1-#10, 1-#10	LTNG
	LTNG - WELDING BOOTH	1-#10, 1-#10, 1-#10	20	1	3			0.8			4				
					5						6				
					7						8				
					9						10				
					11						12				
					13						14				
					15						16				
					17						18				
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					29						30				
					31						32				
					33						34				
					35						36				
					37						38				
					39						40				
					41						42				
							kVA	0.8	kVA	0.0 kVA					
						11	I A	7	'A	0 A					
LOAD C	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTI	MATED	DEMAND				PANE	EL TOTAL
LTNG		1974 VA			100.	00%			1974	VA					TOTAL C
														TC	<b>DTAL EST</b>
															AL CONN
														TOTAL ESTI	
															% ADDIT
														ZJ	TOTAL
															IUIAL

	PANEL: EX C2	MAINS TYPE: MCB PAN										PANEL INTERRUPTING RATING: < ENGINEER TO SPECIFY>						
	VOLTAGE: 208Y/120V,3P,4W		SPD:											LOCATION: CAF	RPENTRY 104			
	AMPERES: 225 A					MO	UNTIN	G: SUR	FACE						SUPPLY FROM:			
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Ρ	СКТ		A	E	3	(	0	CKT	Ρ	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTE	
					1	1.7	2.7					2						
	EX. CARP. CLASSROOM RTU 10	3-#10, 1-#10, 1-#10	30	3	3			1.7	2.7			4	3	45	3-#6, 1-#6, 1-#10	EX. WELDING 5 TON RTU 9		
					5					1.7	2.7	6						
					7	0.0	6.7					8						
	EX. SPARE	-	30	3	9			0.0	6.7			10	3	80	3-#3, 1-#3, 1-#8	EX. CARP. 10 TON RTU 11		
					11					0.0	6.7	12						
					13	2.9	6.7					14						
	EX. SPARE		60	3	15			2.9	6.7			16	3	80	3-#3, 1-#3, 1-#8	EX. WELDING 10 TON RTU 8		
					17					2.9	6.7	18						
	SPARE		20	1	19	0.0	0.0					20	1	20		SPARE		
	SPARE		20	1	21			0.0	0.0			22	1	20		SPARE		
	SPARE		20	1	23					0.0	0.0	24	1	20		SPARE		
	SPARE		20	1	25	0.0	0.0					26	1	20		SPARE		
	SPARE		20	1	27			0.0	0.0			28	1	20	-	SPARE		
	SPARE		20	1	29					0.0	0.0	30	1	20		SPARE		
	SPARE		20	1	31	0.0	4.0					32						
	SPARE		20	1	33			0.0	4.0			34	3	45	3-#6, 1-#6, 1-#10	NEW 10HP AIR COMPRESSOR		
	SPARE		20	1	35					0.0	4.0	36						
	SPARE		20	1	37	0.0	1.0					38	1	20	-	EX. RECEPTION DESK RECEPT		
	SPARE		20	1	39			0.0	1.0			40	1	20	-	EX. RECEPTION DESK RECEPT		
	EX. UNDER PANEL RECEPT.		20	1	41					1.0	1.0	42	1	20	-	EX. RECEPTION DESK RECEPT		
						25.6	i kVA	25.6	kVA	26.6	kVA							
						21	3 A	213	3 A	22	1 A							
LOAD (	LASSIFICATION	CONNECTED LO	AD	DEI	MAND	FACT	OR	ESTIN	<b>IATED</b>	DEMA	ND				PANE	EL TOTALS		
EQUIP		65000 VA			80.	00%			52000	VA						TOTAL CONNECTED LOAD: 7770	00 VA	
Spare		12700 VA			100	.00%			12700	VA					ТС	DTAL ESTIMATED DEMAND: 6470	00 VA	
•															тот	AL CONNECTED CURRENT: 216	A	
																MATED DEMAND CURRENT: 180		
																% ADDITIONAL CAPACITY: 45 A		
															23	TOTAL PANEL CURRENT: 224		
		1														IUIAL PANEL CURRENT: 224	A	

# 

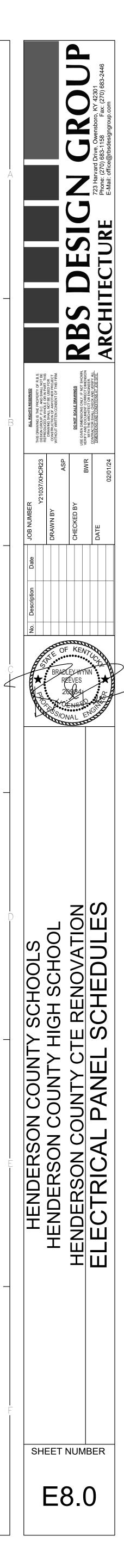
## ER TO SPECIFY> E XX3 CIRCUIT DESCRIPTION NOTES , L CONNECTED LOAD: 1974 VA ESTIMATED DEMAND: 1974 VA NNECTED CURRENT: 5 A DEMAND CURRENT: 5 A DITIONAL CAPACITY: 1 A AL PANEL CURRENT: 7 A

PANEL: <b>RP1</b>					MAIN	NS TYP		3			PANEL INTERRUPTING RATING: <engineer specify="" to=""></engineer>							
					мо			REACE										
	HOT. NEUT. GND	OCP	Р	скт			B			С		Р				NOTE		
		_	_							-		1						
		20	-				0.2	0.2				1	20					
NEW CLASSROOM 116E RECEPT.	1-#12, 1-#12, 1-#12	20	-						0.7	0.4	6	1	20		NEW STORAGE/CORRIDOR RECEPT.			
NEW CLASSROOM 116E RECEPT.	1-#12, 1-#12, 1-#12	20	1	7	0.7	0.7					8	1	20	1-#10, 1-#10, 1-#10	NEW CLASSROOM 116H RECEPT.			
NEW CLASSROOM 116E RECEPT.	1-#10, 1-#10, 1-#10	20	1	9			0.9	0.7			10	1	20	1-#10, 1-#10, 1-#10	NEW OFFICE 116G RECEPT.			
REC	1-#12, 1-#12, 1-#12	20	1	11					0.2	0.5	12	1	20	1-#12, 1-#12, 1-#12	NEW CLASSROOM 116H RECEPT.			
NEW BOYS RR HAND DRYER	1-#12, 1-#12, 1-#12	20	1	13	1.9	0.5					14	1	20	1-#12, 1-#12, 1-#12	NEW CLASSROOM 116E RECEPT.			
NEW TRAP PRIMER	1-#12, 1-#12, 1-#12	20	1	15			0.5	1.9			16	1	20	1-#12, 1-#12, 1-#12	NEW GIRLS HAND DRYER			
NEW GIRLS HAND DRYER	1-#12, 1-#12, 1-#12	20	1	17					1.9	3.7	18							
				19	3.7	3.7					20	3	35	3-#6, 1-#6, 1-#6	RTU-1			
RTU-2	3-#8, 1-#8, 1-#10	35	3	21			3.7	3.7										
				23					3.7	0.2		1	20	1-#12, 1-#12, 1-#12	REC			
											-							
											28							
												<u> </u>						
												<u> </u>						
				41							42							
						-												
							98 A 93 A											
ASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTI	MATED	D DEMAND PANEL TOTALS									
	28200 VA			80.	00%			22560	VA		TOTAL CONNECTED LOAD: 34860 VA							
	6660 VA			100	.00%							TOTAL ESTIMATED DEMAND: 29220 VA						
												TOTAL PANEL CURRENT: 101 A						
	VOLTAGE: 208Y/120V,3P,4W AMPERES: 225 A CIRCUIT DESCRIPTION NEW STORAGE RECEPT. NEW GIRLS RR RECEPT. NEW CLASSROOM 116E RECEPT. NEW CLASSROOM 116E RECEPT. NEW CLASSROOM 116E RECEPT. REC NEW BOYS RR HAND DRYER NEW GIRLS HAND DRYER RTU-2 LASSIFICATION	VOLTAGE: 208Y/120V,3P,4W         AMPERES: 225 A       HOT, NEUT, GND         NEW STORAGE RECEPT.       1-#12, 1-#12, 1-#12         NEW GIRLS RR RECEPT.       1-#12, 1-#12, 1-#12         NEW CLASSROOM 116E RECEPT.       1-#12, 1-#12, 1-#12         NEW GURS RR HAND DRYER       1-#12, 1-#12, 1-#12         NEW GIRLS HAND DRYER       1-#12, 1-#12, 1-#12         NEW GIRLS HAND DRYER       1-#12, 1-#12, 1-#12         RTU-2       3-#8, 1-#8, 1-#10         Amplication       1-#12         NEW GIRLS HAND DRYER       1-#12, 1-#12         RTU-2       3-#8, 1-#8, 1-#10         Amplication       1-44         Amplication       1-44         Amplication       1-44         Amplication       1-44         NEW GIRLS HAND DRYER       1-44         New GIRLS HAND DRYER       1-44         Amplication       1-44         Amplication       1-44	VOLTAGE:       208Y/120V,3P,4W:         AMPERES:       225 A         CIRCUIT DESCRIPTION       HOT, NEUT, GND       OCP         NEW STORAGE RECEPT.       1-#12, 1-#12, 1-#12       20         NEW GIRLS RR RECEPT.       1-#12, 1-#12, 1-#12       20         NEW CLASSROOM 116E RECEPT.       1-#12, 1-#12, 1-#12       20         NEW BOYS RR HAND DRYER       1-#12, 1-#12, 1-#12       20         NEW BOYS RR HAND DRYER       1-#12, 1-#12, 1-#12       20         NEW GIRLS HAND DRYER       1-#12, 1-#12, 1-#12       20         RTU-2       3-#8, 1-#8, 1-#10       35         RTU-2       3-#8, 1-#8, 1-#10       35         NEW GIRLS HAND DRYER       1-#12, 1-#12, 1-#12       1         NEW GIRLS HAND DRYER       1-#12, 1-#12, 1-#12       1       1         NEW GIRLS HAND DRYER       1-#1	VOLTAGE: 208Y/120V,3P,4W:         AMPERES: 225 A         CIRCUIT DESCRIPTION       HOT, NEUT, GND       OCP       P         NEW STORAGE RECEPT.       1.#12, 1.#12, 1.#12       20       1         NEW GIRLS RR RECEPT.       1.#12, 1.#12, 1.#12       20       1         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1         NEW CLASSROOM 116E RECEPT.       1.#10, 1.#10, 1.#10       20       1         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1         NEW CLASSROOM 116E RECEPT.       1.#10, 1.#10, 1.#10       20       1         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1         NEW GLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1         NEW BOYS RR HAND DRYER       1.#12, 1.#12, 1.#12       20       1         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       1       1         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1         RTU-2       3.#8, 1.#8, 1.#10       35       3         Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan= 2"Image: Colspan= 2"Image: Colspan= 2"Image: Colspan= 2"Image: Colspan	VOLTAGE: 208Y/120V,3P,4W:         AMPERES: 225 A       CIRCUIT DESCRIPTION       HOT, NEUT, GND       OCP       P       CKT         NEW STORAGE RECEPT.       1.#12, 1.#12, 1.#12       20       1       1         NEW GIRLS RR RECEPT.       1.#12, 1.#12, 1.#12       20       1       3         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       7         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       9         REC       1.#12, 1.#12, 1.#12       20       1       11         NEW BOYS RR HAND DRYER       1.#12, 1.#12, 1.#12       20       1       13         NEW TRAP PRIMER       1.#12, 1.#12, 1.#12       20       1       17         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1       17         RTU-2       3.#8, 1.#8, 1.#10       35       3       21         23       24       25       25       20       1       17         RTU-2       3.#8, 1.#8, 1.#10       35       3       21       23         24       3.#8, 1.#8, 1.#10       35       3       31       31         25       27       3.4       33       35       <	VOLTAGE: 208Y/120V,3P,4W         AMPERES: 225 A       MO         CIRCUIT DESCRIPTION       HOT, NEUT, GND       OCP       P       CKT         NEW STORAGE RECEPT.       1.#12, 1.#12, 1.#12       20       1       1       0.4         NEW GIRLS RR RECEPT.       1.#12, 1.#12, 1.#12       20       1       3       -         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       5       -         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       7       0.7         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       11       -         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       13       1.9         REC       1.#12, 1.#12, 1.#12       20       1       13       1.9         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1       15       -         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1       17       -       -         RTU-2       3.#8, 1.#8, 1.#10       35       3       21       -       -       -       23       -       -       -       29       -       -	VOLTAGE:       208Y/120V,3P,4W;       SPI         AMPERES:       225 A       MOUTION       HOT, NEUT, GND       OCP       P       CKT       A         NEW STORAGE RECEPT.       1.#12, 1.#12, 1.#12       20       1       1       0.4       0.4       0.4         NEW STORAGE RECEPT.       1.#12, 1.#12, 1.#12       20       1       3       -       -         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       7       0.7       0.7         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       11       -       -         NEW CLASSROOM 116E RECEPT.       1.#12, 1.#12, 1.#12       20       1       13       1.9       0.5         NEW BOYS RR HAND DRYER       1.#12, 1.#12, 1.#12       20       1       11       -       -         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1       15       -       -         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1       17       -       -         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1       17       -       -         NEW GIRLS HAND DRYER       1.#12, 1.#12, 1.#12       20       1 </td <td>VOLTAGE:       208Y/120V,3P,4W       SPD:         AMPERES:       225 A       MOUNTIC:       SUP         CIRCUIT DESCRIPTION       HOT, NEUT, GND       OCP       P       CKT       A       Od         NEW STORAGE RECEPT.       1:#12, 1:#12, 1:#12       20       1       3       0.4       0.4       0.2         NEW GIRLS RR RECEPT.       1:#12, 1:#12, 1:#12       20       1       5       0.2         NEW CLASSROOM 116E RECEPT.       1:#12, 1:#12, 1:#12       20       1       7       0.7       0.7         NEW CLASSROOM 116E RECEPT.       1:#12, 1:#12, 1:#12       20       1       11       0.9       0.9         REC       1:#12, 1:#12, 1:#12       20       1       13       1.9       0.5         NEW DASS RR HAND DRYER       1:#12, 1:#12, 1:#12       20       1       15       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       20       1       15       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       20       1       17       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       20       1       17       0.5       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       1<!--</td--><td>VOLTAGE: <math>208Y/120V,3P,4W</math>           AMPERES: <math>25</math> A         SUJUTUS: <math>SURFACE</math>           CIRCUIT DESCRIPTION         HOT, NEUT, GND         OCP         P         CKT         A         B           NEW STORAGE RECEPT.         1+#12, 1#12, 1#12         20         1         3         0         0.2         0.2           NEW GIRLS RR RECEPT.         1+#12, 1#12, 1#12         20         1         5         0         0         1         0.4         0.4         0.4         0.4         0.2</td><td>VOLTAGE: 208Y/120V,3P,4W           AMPERES: 25 A         MOUNTINE: SUBTACE           CIRCUIT DESCRIPTION         HOT, NEUT, GND         OCP         P         CKT         B         COUNTINE: SUBTACE           NEW STORAGE RECEPT.         1.412, 1.412, 1.412         20         1         3         0.2         </td></td>	VOLTAGE:       208Y/120V,3P,4W       SPD:         AMPERES:       225 A       MOUNTIC:       SUP         CIRCUIT DESCRIPTION       HOT, NEUT, GND       OCP       P       CKT       A       Od         NEW STORAGE RECEPT.       1:#12, 1:#12, 1:#12       20       1       3       0.4       0.4       0.2         NEW GIRLS RR RECEPT.       1:#12, 1:#12, 1:#12       20       1       5       0.2         NEW CLASSROOM 116E RECEPT.       1:#12, 1:#12, 1:#12       20       1       7       0.7       0.7         NEW CLASSROOM 116E RECEPT.       1:#12, 1:#12, 1:#12       20       1       11       0.9       0.9         REC       1:#12, 1:#12, 1:#12       20       1       13       1.9       0.5         NEW DASS RR HAND DRYER       1:#12, 1:#12, 1:#12       20       1       15       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       20       1       15       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       20       1       17       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       20       1       17       0.5       0.5         NEW GIRLS HAND DRYER       1:#12, 1:#12, 1:#12       1 </td <td>VOLTAGE: <math>208Y/120V,3P,4W</math>           AMPERES: <math>25</math> A         SUJUTUS: <math>SURFACE</math>           CIRCUIT DESCRIPTION         HOT, NEUT, GND         OCP         P         CKT         A         B           NEW STORAGE RECEPT.         1+#12, 1#12, 1#12         20         1         3         0         0.2         0.2           NEW GIRLS RR RECEPT.         1+#12, 1#12, 1#12         20         1         5         0         0         1         0.4         0.4         0.4         0.4         0.2</td> <td>VOLTAGE: 208Y/120V,3P,4W           AMPERES: 25 A         MOUNTINE: SUBTACE           CIRCUIT DESCRIPTION         HOT, NEUT, GND         OCP         P         CKT         B         COUNTINE: SUBTACE           NEW STORAGE RECEPT.         1.412, 1.412, 1.412         20         1         3         0.2         </td>	VOLTAGE: $208Y/120V,3P,4W$ AMPERES: $25$ A         SUJUTUS: $SURFACE$ CIRCUIT DESCRIPTION         HOT, NEUT, GND         OCP         P         CKT         A         B           NEW STORAGE RECEPT.         1+#12, 1#12, 1#12         20         1         3         0         0.2         0.2           NEW GIRLS RR RECEPT.         1+#12, 1#12, 1#12         20         1         5         0         0         1         0.4         0.4         0.4         0.4         0.2	VOLTAGE: 208Y/120V,3P,4W           AMPERES: 25 A         MOUNTINE: SUBTACE           CIRCUIT DESCRIPTION         HOT, NEUT, GND         OCP         P         CKT         B         COUNTINE: SUBTACE           NEW STORAGE RECEPT.         1.412, 1.412, 1.412         20         1         3         0.2								

PANELBOARD	<b>AND WIRING</b>	SCHEDULE
	<b>-</b> ·	

	PANEL: EX C1 VOLTAGE: 208Y/120V,3P,4W AMPERES: 400 A						SP	E: MCE D: G: SUF				PANE	LIN		LOCATION: CAF SUPPLY FROM:	IGINEER TO SPECIFY> RPENTRY 104
NOTES					CKT			-	B		2	СКТ				CIRCUIT DESCRIP
NOTES	EX. BAY LIGHTS	HOT, NEUT, GND	<b>OCP</b> 20	P	CKT	1.4	<b>A</b> 0.8		5	,	, 	2	P	<b>OCP</b> 20	HOT, NEUT, GND	EX. OFFICE RECEPTS
			20	1	3	1.4	0.0	1.3	1.6			-	1	20		EX. CLASSROOM RECEPTS
	EX. BAY LIGHTS EX. BAY LIGHTS		20	1	5			1.3	1.0	1.2	1.2	4	1	20		EX. CLASSROOM RECEP
	EX. CLASSROOM/OFFICE/STORAG		20	1	7	1.3	1.2			1.2	1.2	8	1	20		EX. STORAGE RECEPTS
	EX. CLASSROOM/OFFICE/STORAG		20		9	1.5	1.2	3.3	0.8			10	1	20		EX. SHOP RECEPTS
	EX. RTU 12		45	3	11			0.0	0.0	3.3	0.8	12	1	20		EX. SHOP/OUTSIDE RECE
		_			13	3.3	2.5			0.0	0.0	14	1	20		
	EX. SHUNT TRIP		20	1	15	0.0	2.5	1.5	2.5			16	3	30		EX. RTU 13
			20	-	17			1.0	2.0	2.5	2.5	18	Ŭ			
	EX. 30A DISC. DRILL PRESS		20	3	19	2.5	2.5			2.0	2.0	20				
			20	ľ	21	2.0	2.0	2.5	2.5			22	3	20		EX. 30A DISC DILL PRESS
	EX. SHUNT TRIP		20	1	23			2.0	2.0	1.5	2.5	24	ľ			
			20	+	25	3.0	1.5			1.0	2.0	26	1	20		EX. SHUNT TRIP
	EX. 30A DISC. SANDER		20	3	27	0.0	1.0	3.0	1.5			28		20		
			20	ľ	29			0.0	1.0	3.0	1.5	30	3	20		EX. 30A DISC. TABLE SAV
	EX. SHUNT TRIP		20	1	31	1.5	1.5			0.0	1.0	32	ľ			
				† ·	33	1.0	1.0	3.0	1.5			34	1	20		EX. SHUNT TRIP
	EX. 30A DISC. PLANER	-	20	3	35			0.0		3.0	2.2	36				
					37	3.0	2.2					38	3	20		EX. 30A DISC. TABLE SAV
	EX. SPARE		20	1	39	0.0		0.0	2.2			40				
	NEW BLADDER TANK CONTROL PNL	1-#12, 1-#12, 1-#12	20	1	41					0.1	1.5	42	1	20		EX. SHUNT TRIP
	EX. SHOP RECEPTS		20	1	43	1.0	1.2			-	-	44	1	20		EX. CORD REEL
	EX. SPARE		20	1	45			0.0	1.2			46	1	20		EX. CORD REEL
	EX. SPARE		20	1	47					0.0	1.2	48	1	20		EX. CORD REEL
	EX. SPARE		20	1	49	0.0	9.0					50				
	EX. SPARE		20	1	51			0.0	9.0			52	3	150	3-#3/0, 1-#3/0, 1-#6	NEW DC-1
	EX. SPARE		20	1	53					0.0	9.0	54	1			
	EX. SPARE		20	1	55	0.0	0.0					56	1	20		EX. SPARE
	EX. SPARE		20	1	57			0.0	0.0			58	1	20		EX. SPARE
	EX. SPARE	-	20	1	59					0.0	0.0	60	1	20		EX. SPARE
	EX. SPARE	-	20	1	61	0.0	0.0					62	1	20		EX. SPARE
	EX. SPARE		20	1	63			0.0	0.0			64	1	20		EX. SPARE
	EX. SPARE		20	1	65					0.0	0.0	66	1	20		EX. SPARE
	EX. SPARE		20	1	67	0.0	0.0					68	1	20		EX. SPARE
	EX. SPARE		20	1	69			0.0	0.0			70	1	20		EX. SPARE
	EX. SPARE		20	1	71					0.0	0.0	72	1	20		EX. SPARE
						39.4	kVA	37.4	kVA	37.0	kVA					
						32	9 A	31	2 A	30	8 A					
LOAD (	LASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTIN	ATED	DEMA	ND	1			PANE	EL TOTALS
EQUIP		27100 VA			80.	00%			21680	VA						TOTAL CONNECTED LOA
Spare		86700 VA				.00%			86700							TAL ESTIMATED DEMAN
opuro					100	.0070			00100	•/ (						AL CONNECTED CURREI
																MATED DEMAND CURREN
															25	% ADDITIONAL CAPACI
																TOTAL PANEL CURREI





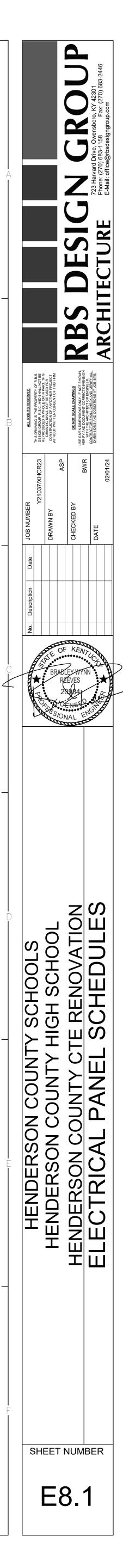
PANEL: <b>W2</b> VOLTAGE: 208Y/120V,3P,4W AMPERES: 600 A				MAINS TYPE: MLO SPD: MOUNTING: SURFACE										PANEL INTERRUPTING RATING: <engi LOCATION: WELDI SUPPLY FROM: EX. ME</engi 						
NOTES	i	HOT, NEUT, GND	OCP	Р	СКТ		A		B	(	2	СКТ	Ρ		HOT, NEUT, GND	T				
	100A DISCONNECT #10	2-#1, 1-#1, 1-#8	100	2	1	8.0	0.0					2	1	20		S				
		,,			3			8.0	11.6	11.0	11.0	4	2	150	2-#3/0, 1-#3/0, 1-#6	2				
	200A DISCONNECT #1	2-#3/0, 1-#3/0, 1-#6	150	2	5	11.0	11.0			11.6	11.6	6				_				
					9	11.6	11.6	11.6	11.6			8 10	2	150	2-#3/0, 1-#3/0, 1-#6	2				
	200A DISCONNECT #3	2-#3/0, 1-#3/0, 1-#6	150	2	11			11.0	11.0	11.6	11.6	10								
					13	11.6	11.6			11.0	11.0	12	2	150	2-#3/0, 1-#3/0, 1-#6	2				
	200A DISCONNECT #5	2-#3/0, 1-#3/0, 1-#6	150	2	15	11.0	11.0	11.6	11.6			16				+				
					17			11.0	11.0	11.6	11.6	18	2	150	2-#3/0, 1-#3/0, 1-#6	2				
	200A DISCONNECT #7	2-#3/0, 1-#3/0, 1-#6	150	2	19	11.6				11.0	11.0	20				-				
	SPACE			1	21	11.0			0.0			22	1	20	-	S				
	SPACE			1	23							24	1			S				
	SPACE			1	25							26	1			S				
	SPACE			1	27							28	1		-	S				
	SPACE			1	29							30	1		-	S				
	SPACE			1	31							32	1		-	S				
	SPACE			1	33							34	1			S				
	SPACE			1	35							36	1			S				
	SPACE			1	37							38	1			S				
	SPACE			1	39							40	1			S				
	SPACE			1	41							42	1		-	S				
						66.2	kVA	66.2	kVA	69.9	kVA									
						55	2 A	55	2 A	58	2 A	1								
LOAD	CLASSIFICATION	CONNECTED LO	AD	DE	MAND	FACT	OR	ESTI	MATED	DEMA	ND				PAN	EL '				
EQUIP		202268 VA			80.	00%			161814	VA						то				
															T	DTA				
															TOT					
															TOTAL ESTI					
																%				
															20	% T				

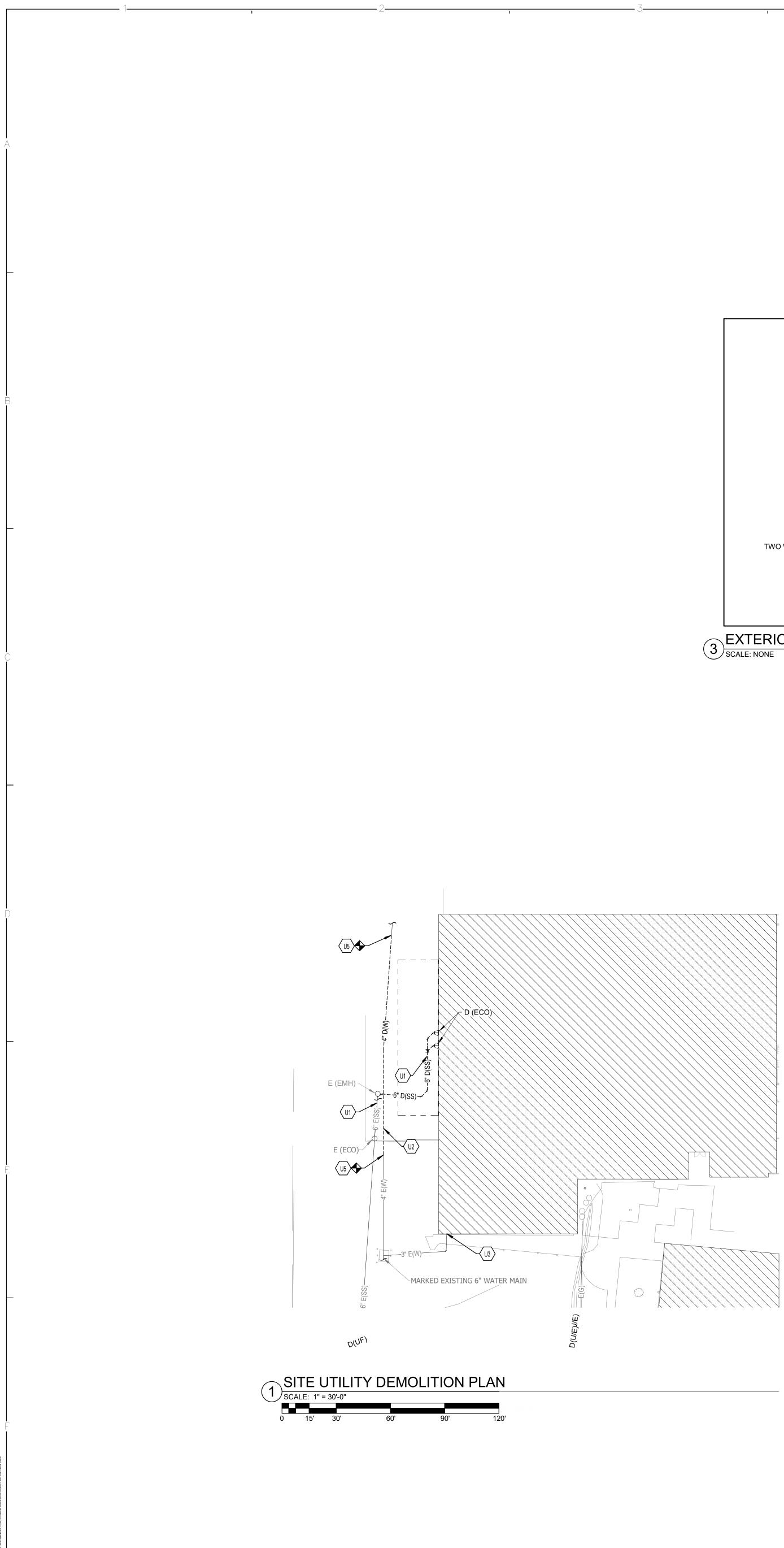
	. 1	NOTEO
CIRCUIT DESCRIPTIO	N	NOTES
SPARE		
200A DISCONNECT #2		
200A DISCONNECT #4		
200A DISCONNECT #6		
200A DISCONNECT #8		
SPARE		
SPACE		
TOTALS		
DTAL CONNECTED LOAD:		
AL ESTIMATED DEMAND:	161814	VA
CONNECTED CURRENT:	561 A	
TED DEMAND CURRENT:	449 A	
ADDITIONAL CAPACITY:	112 A	
TOTAL PANEL CURRENT:	561 A	

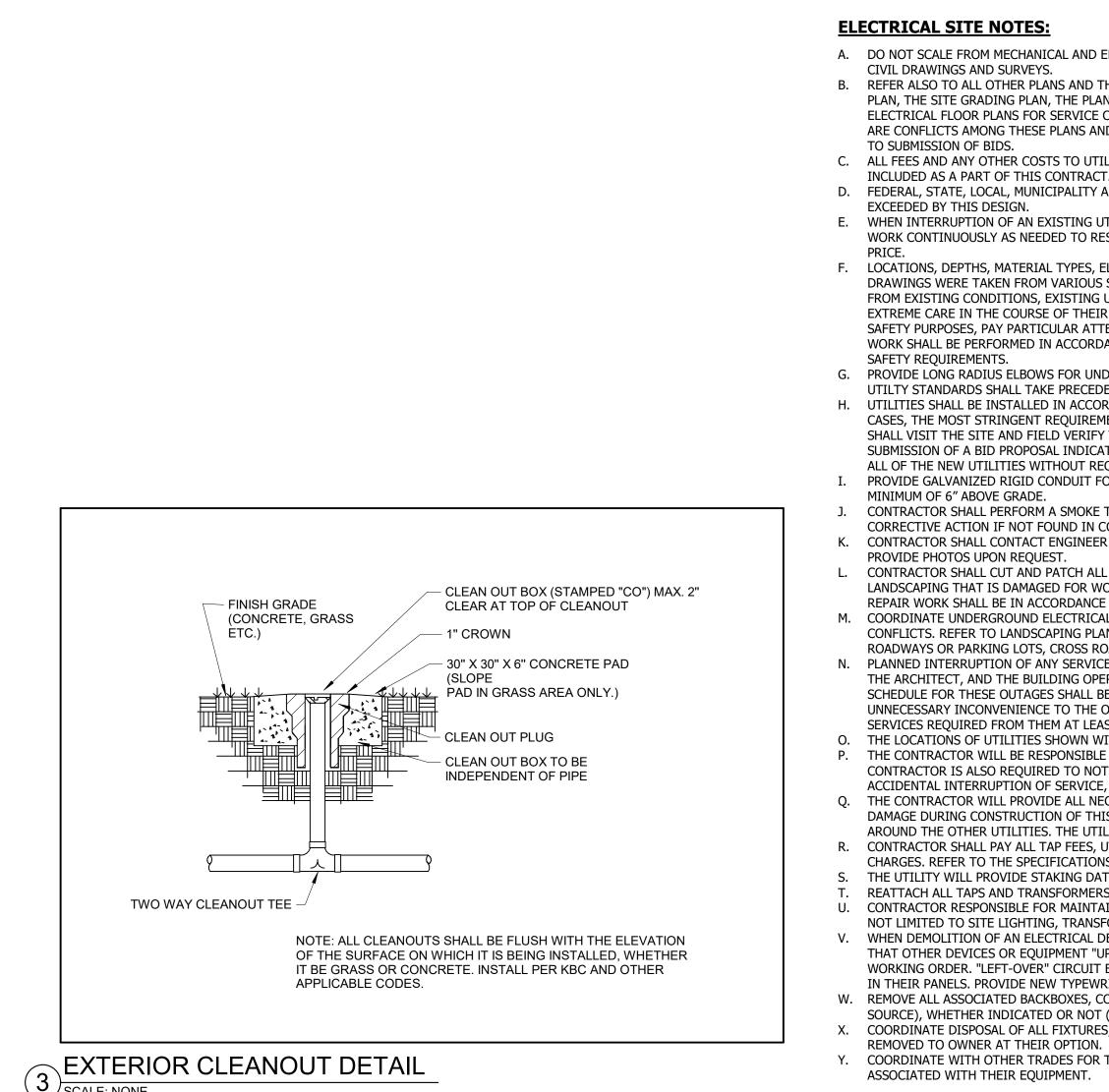
	PANEL: EX W					MAIN	IS TYPE		}			PANE	L IN	TERRU		GINEER TO SPECIFY>			
	VOLTAGE: 208Y/120V,3P,4W AMPERES: 800 A					MOI	SPE UNTING								LOCATION: WEL SUPPLY FROM:	DING 106			
OTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		4		B		;	СКТ	Ы	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NOTE		
					1	11.6	5.3		, 		, 	2	Г	UUP	nor, NEOT, OND				
	200A DISCONNECT #15	2-#3/0, 1-#3/0, 1-#6	150	2	3	11.0	0.0	11.6	5.3			4	3	60	3-#4, 1-#4, 1-#10	EX. DISCONNECT #7			
	100A DISCONNECT #15	2-#1, 1-#1, 1-#8	100	2	5					7.9	5.3	6							
		2 // 1, 1 // 1, 1 // 0		-	7	7.9	0.0	44.0	4.0			8	1	20		EX. SPARE			
	200A DISCONNECT #14	2-#3/0, 1-#3/0, 1-#6	150	2	9 11			11.6	1.0	11.6	0.0	10 12	1	20 20	1-#12, 1-#12, 1-#12 	EX. DISCONNECT #8 EX. SPARE			
		0 114 4 114 4 110	400		13	7.9	0.0			11.0	0.0	14	1	20		EX. EMERGENCY SHUT DOW	N		
	100A DISCONNECT #14	DNNECT #14 2-#1, 1-#1, 1-#8	100	2	15			7.9	2.1			16	2	20		EX. ROD DRYER			
	100A DISCONNECT #13	2-#1, 1-#1, 1-#8	100	2	17					7.9	2.1	18	2	20		EX. NOD DIVIEN			
		, ,			19 21	7.9	2.3	11.6	2.3			20 22	2	30		EX. AIR COMPRESSOR			
	200A DISCONNECT #13	2-#3/0, 1-#3/0, 1-#6	150	2	23			11.0	2.5	11.6	0.0	22	1	20		EX. SPARE			
	200A DISCONNECT #12	2-#3/0, 1-#3/0, 1-#6	150	2	25	11.6	2.8					26	2	30	2-#10, 1-#10, 1-#10	EX. CUTTING MACHINE			
	200A DISCONNECT #12	2-#3/0, 1-#3/0, 1-#0	150	2	27			11.6	2.8			28	2	30	2-#10, 1-#10, 1-#10				
	200A DISCONNECT #11	2-#3/0, 1-#3/0, 1-#6	150	2	29 31	11.6	11.6			11.6	11.6	30 32	2	150	2-#3/0, 1-#3/0, 1-#6	200A DISCONNECT #10			
					33	11.0	11.0	7.9	7.9			32 34							
	100A DISCONNECT #12	2-#1, 1-#1, 1-#8	100	2	35			1.0	1.0	7.9	7.9	36	2	100	2-#1, 1-#1, 1-#8	100A DISCONNECT #11			
	EX. SPARE		20	1	37	0.0	11.6					38	2	150	2-#3/0, 1-#3/0, 1-#6	200A DISCONNECT #9			
	EX. SPARE		20	1	39			0.0	11.6	0.0	0.0	40	-						
	EX. SPARE		20	1	41 43	0.0				0.0	0.0	42 44	1	20		EX. SPARE			
	EX. SPACE		20	3	45	0.0		0.0				46	3			EX. SPACE			
					47					0.0		48							
						92.3		95.4		85.6									
						778		80											
	LASSIFICATION		AD	DE		FACT	OR	ESTIMATED DEMAND					PANEL TOTALS TOTAL CONNECTED LOAD: 273315 VA						
		264515 VA 8800 VA			80.0	00% 00%			211612 8800 '							TAL ESTIMATED DEMAND:			
oare		0000 VA			100.	00%			0000	VA						AL CONNECTED CURRENT:			
																ATED DEMAND CURRENT:			
																% ADDITIONAL CAPACITY:			
																TOTAL PANEL CURRENT:			

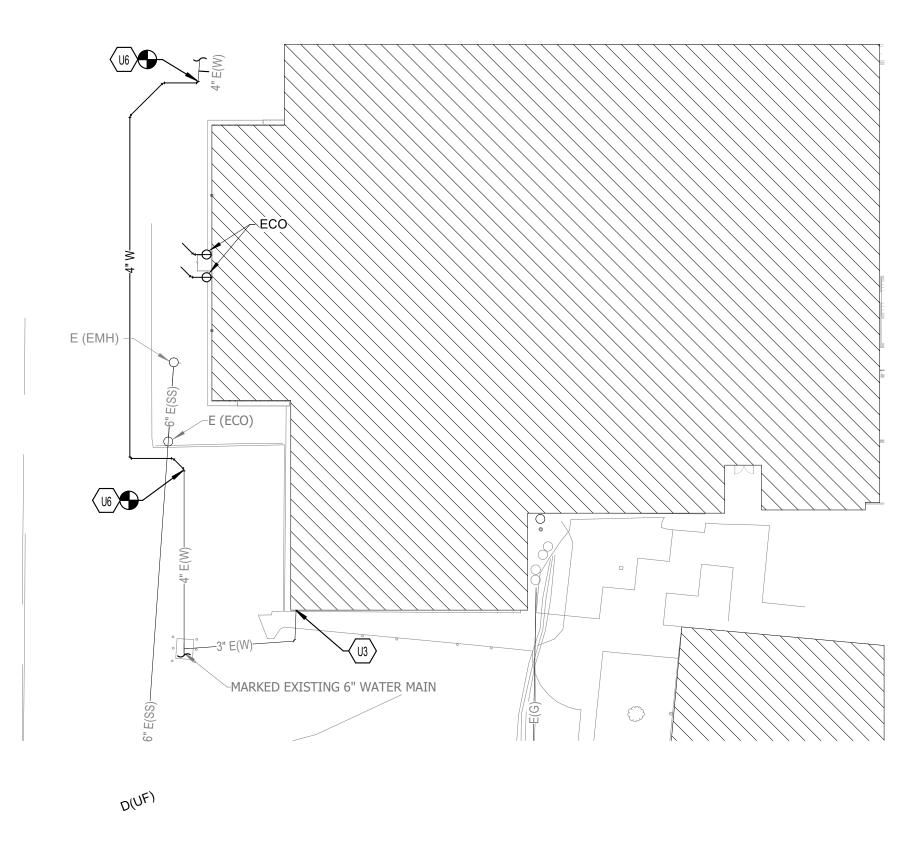
	PANEL: EX G					MAIN	IS TYP	E: MCE	3			PANE	L IN	TERRU	PTING RATING: 20k	Ą		
	<b>VOLTAGE:</b> 208Y/120V,3P,4W						SP								LOCATION: WEI			
	AMPERES: 225 A					МО		G: SUR	FACE						SUPPLY FROM:			
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	Р	СКТ		A	-	3		C	СКТ	Ρ	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTIO	N NOT	
			001	<u>                                     </u>	1		1.0		, 			2	1	20		EX. CLASSROOM RECEPT		
					3		1.0		1.0			4	1	20		EX. STORAGE RECEPT		
					5			-	1.0		1.0	6	1	20		EX. CLASSROOM RECEPT		
	EX. BAY LTS		20	1	7	1.5	1.0				1.0	8	1	20		EX. SHOP		
	EX. BAY LTS		20	1	9	1.0	1.0	1.5	1.0			10	1	20		EX. SHOP		
	EX. CLASSROOM/STORAGE LTS		20	1	11			1.0	1.0	1.5	0.5	12	1	20		EX. GARAGE DOOR OPENER		
	EX. CORD REEL		20	1	13	0.8	0.8	-		1.0	0.0	14	1	20		SPARE		
	EX. CORD REEL		20	1	15	0.0	0.0	0.8	0.8			16	1	20		SPARE		
	EX. CORD REEL		20	1	17			0.0	0.0	0.8	0.8	18	1	20		EX. SPARE		
	REC WELDING BOOTHS	1-#12, 1-#12, 1-#12	20	1	19	1.0	0.0	-		0.0	0.0	20	1	20		EX. SPARE		
	REC WELDING BOOTHS	1-#12, 1-#12, 1-#12	20	1	21	1.0	0.0	1.0	1.0			22	1	20	1-#12, 1-#12, 1-#12	REC WELDING BOOTHS		
	REC WELDING BOOTHS	1-#12, 1-#12, 1-#12	20	1	23				1.0	1.0	1.0	24	1	20	1-#12, 1-#12, 1-#12	REC WELDING BOOTHS		
	REC WELDING BOOTHS	1-#12, 1-#12, 1-#12	20	1	25	1.0	0.5	-		1.0	1.0	26	1	20	1-#12, 1-#12, 1-#12	REC WELDING BOOTHS		
			20	· ·	27	1.0	0.0	0.0	0.0			28	1	20		EX. SPARE		
	EX. SPARE		20	3	29			0.0	0.0	0.0	1.0	30	1	20	1-#12, 1-#12, 1-#12	REC WELDING BOOTHS		
			20	Ŭ	31	0.0	0.0			0.0	1.0	32	1	20		EX. SPARE		
	EX. SPARE		20	1	33	0.0	0.0	0.0	0.0			34	1	20		EX. SPARE		
	EX. SPARE		20	1	35					0.0	0.0	36	1	20		EX. SPARE		
	EX. SPARE		20	1	37	0.0	0.0				0.0	38	1	20		EX. SPARE		
	EX. SPARE		20	1	39			0.0	0.0			40	1	20		EX. SPARE		
			-		41						0.0	42	1	20		EX. SPARE		
						76	kVA	7.1	kVA	76	kVA							
						-	4 A	59			I A	-						
	LASSIFICATION	CONNECTED LO		DE	MANE	FACT				DEMA								
	LASSIFICATION		AD	DE				ESTIN			ND						00000 \/A	
REC		7500 VA				.00%			7500							TOTAL CONNECTED LOAD:		
Spare		14800 VA			100	.00%			14800	VA						DTAL ESTIMATED DEMAND:		
															TOT	AL CONNECTED CURRENT:	62 A	
															TOTAL ESTIN	MATED DEMAND CURRENT:	62 A	
															25	% ADDITIONAL CAPACITY:	15 A	
																TOTAL PANEL CURRENT:	77 A	

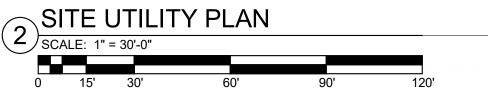












A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT. D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS

E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND

G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE. H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A

CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS. K. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS.

L. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. M. COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE. N. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY,

THE ARCHITECT, AND THE BUILDING OPERATORS AT LEASTE ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK. O. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY. P. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS. Q. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.

R. CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY COST, UTILITY CONNECTION COSTS, METER FEES, EXTENSION AND DEVELOPMENT CHARGES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. S. THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS REQUIRED OR SHOWN ON DRAWINGS. REATTACH ALL TAPS AND TRANSFORMERS AS TO MAINTAIN EXISTING PHASE CONNECTIONS. U. CONTRACTOR RESPONSIBLE FOR MAINTAINING DOWNSTREAM SERVICE FROM REMOVED EQUIPMENT ON SITE. INCLUDING BUT NOT LIMITED TO SITE LIGHTING, TRANSFORMERS, ETC.

V. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED. W. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES/ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS

Y. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS

## **MECHANICAL SITE NOTES:**

- A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND С.
- REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR
- THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE
- CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES. CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED
- UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS. THE UTILITY/CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL
- BE REQUIRED TO FURNISH SUCH EQUIPMENT. K. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT. TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS.

# TAGGED NOTES

SPECIFICATIONS.

- U1 EXISTING SANITARY PIPING LOCATION UNKNOWN. POSSIBLE ROUTING SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL INCLUDE IN HIS BID COST TO LOCATE EXISTING PIPING THROUGH EXPLORATORY EXCAVATION PRIOR TO NEW BUILDING FOUNDATIONS. CLEANOUTS TO BE RELOCATED AS REQUIRED TO EXTERIOR OF NEW ADDITION. REFRE TO SITE UTILITY PLAN FOR CONTINUATION.
- REFERENCE ONLY. CONTRACTOR SHALL INCLUDE IN HIS BID COST TO LOCATE EXISTING PIPING THROUGH EXPLORATORY EXCAVATION PRIOR TO NEW BUILDING FOUNDATIONS. REFER TO SITE UTILITY PLAN FOR CONTINUATION.
- U3 EXISTING DOMESTIC WATER PIPING ENTERS BUILDING AT POINT INDICATED. U5 DOMESTIC WATER PIPING TO BE DEMOLISHED AT POINT INDICATED. REFER TO SITE UTILITY PLAN FOR NEW WORK.
- U6 DOMESTIC WATER PIPING TO BE RECONNECTED AT POINT INDICATED. NEW WATER PIPING SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE WHEN CROSSING WITHIN 10 FEET OF SANITARY PIPING PER 10 STATES STANDARDS.

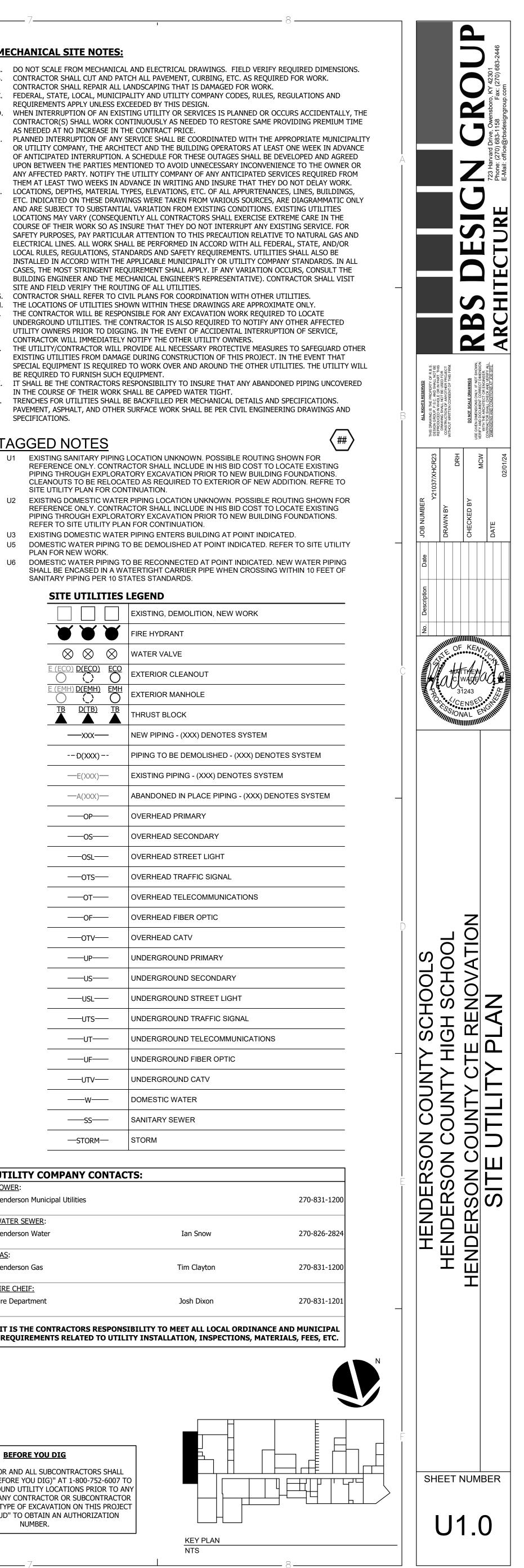
SITE UTILITIES	LEGEND
	EXISTING, DEMOLITION, NEW WORK
	FIRE HYDRANT
$\otimes$ $\otimes$ $\otimes$	WATER VALVE
E (ECO) <u>D(ECO)</u> ECO	EXTERIOR CLEANOUT
	EXTERIOR MANHOLE
TB D(TB) TB	THRUST BLOCK
	NEW PIPING - (XXX) DENOTES SYSTEM
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOT
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DEN
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OSL	OVERHEAD STREET LIGHT
OTS	OVERHEAD TRAFFIC SIGNAL
OT	OVERHEAD TELECOMMUNICATIONS
OF	OVERHEAD FIBER OPTIC
OTV	OVERHEAD CATV
UP	UNDERGROUND PRIMARY
	UNDERGROUND SECONDARY
USL	UNDERGROUND STREET LIGHT
UTS	UNDERGROUND TRAFFIC SIGNAL
UT	UNDERGROUND TELECOMMUNICATIONS
UF	UNDERGROUND FIBER OPTIC
UTV	UNDERGROUND CATV
——W	DOMESTIC WATER
SS	SANITARY SEWER
—STORM—	STORM

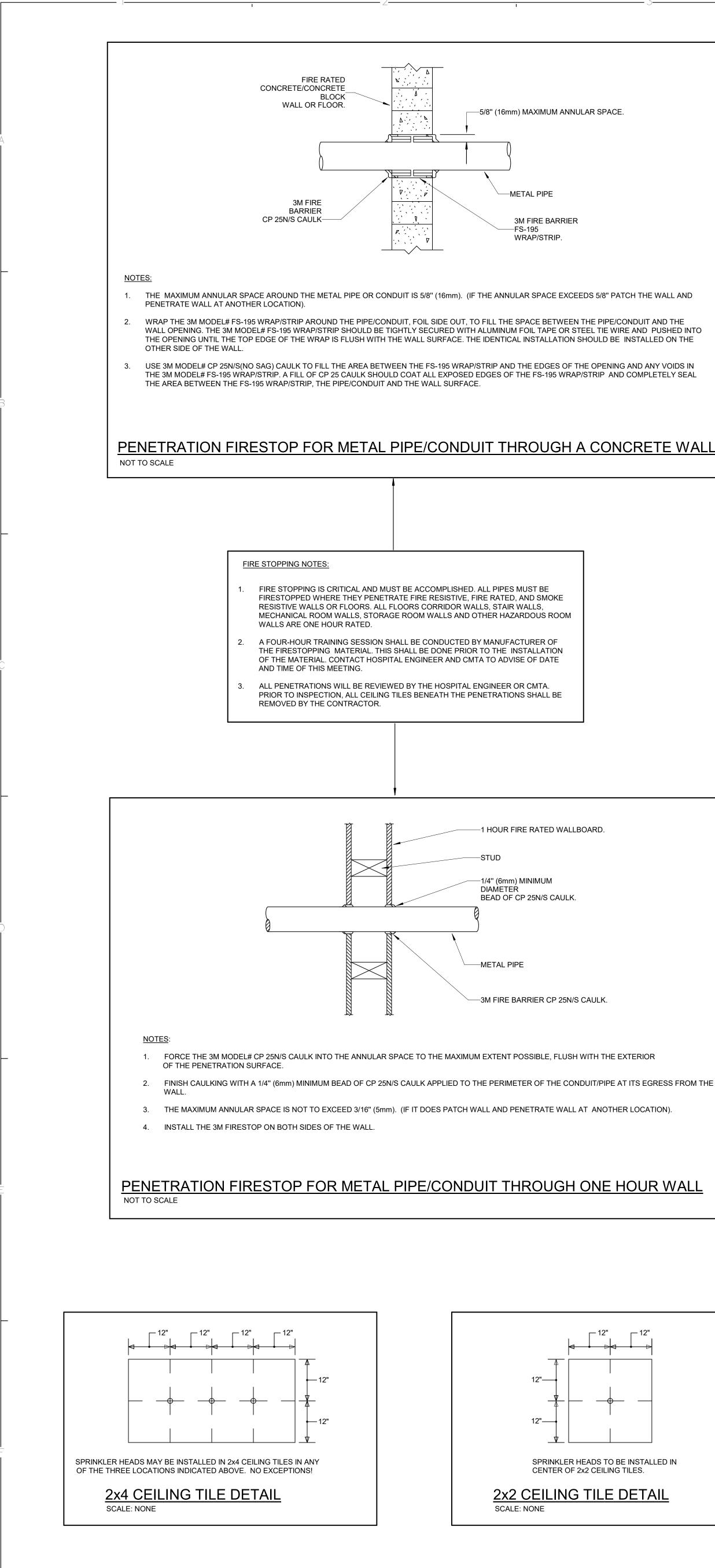
	ACTS:
POWER:	
Henderson Municipal Utilities	
WATER SEWER:	
Henderson Water	Ian Snow
<u>GAS</u> :	
Henderson Gas	Tim Clayton
FIRE CHEIF:	
Fire Department	Josh Dixon

# **REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.**

# **BEFORE YOU DIG**

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.





# SPRINKLER HEADS TO BE INSTALLED IN CENTER OF 2x2 CEILING TILES.

# FIRE PROTECTION GENERAL NOTES:

- A. COORDINATE THE LOCATION OF DRAINS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK
- SHALL MATCH ADJACENT SURFACES. D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- I. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- J. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES. K. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING
- EXCEPT AS NOTED. L. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND
- SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS. M. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE
- ADDITIONAL OFFSETS WHERE NECESSARY. N. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES
- OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
- O. INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- P. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS, AND ROOF. PROVIDE FIRE STOPPING IN
- FIRE PARTITION. Q. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING
- EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK. R. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN
- CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- S. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE
- CEILING, IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING. U. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

# FIRE PROTECTION PHASING NOT

- A. THIS PROJECT INTERFACES EXTENSIVELY BUILDING SERVICES. IT SHALL BE THE CON RESPONSIBILITY TO COORDINATE AND PHA INTERRUPTIONS OF EXISTING SERVICES TO ELIMINATE DOWNTIME. AS AN EXAMPLE WATER SERVICE, ELECTRICAL SERVICE, HV GENERATION, ETC., WILL BE AFFECTED AM MOVED DURING THIS PROJECT. THE CONT INSTALL ALL NEW SERVICES AND EQUIPME TESTED AND FULLY AND RELIABLY FUNCTION INTERRUPTING, RELOCATING OR REMOVIN SERVICES. IT SHALL BE THE CONTRACTOR'S TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL
- **FIRE PROTECTION HAZARDOUS NOTES:**
- A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL
- C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH
- PARTIES. E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

# **PLUMBING DEMOLITION NOTES:**

- A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION.
- TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING, ETC. B. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES. C. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A
- AND REPAIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PATCH AND REPAIR REQUIREMENTS. D. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION
- PHASE E. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- F. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

TES:
WITH EXISTING
NTRACTOR'S
ASE ALL TIE-INS AND
O MINIMIZE OR
MAIN GAS SERVICE,
VAC SERVICES, STEAM
ND REPLACED OR
FRACTOR SHALL
ENT AND HAVE THEM
IONAL PRIOR TO
NG ANY EXISTING
S RESPONSIBILITY

ABBREVIATIONS

COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY

MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD

LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED

TBD

TO BE DETERMINED

	1
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
АНЈ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
CLG	CEILING
CLR	CLEAR
DN	DOWN
ENGR	ENGINEER
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
FVC	FIRE VALVE CABINET
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET <b>OR</b> FOOT
FUT	FUTURE
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
LBS	POUNDS
LF	LINEAR FEET/FOOT
MAX	MAXIMUM
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA <b>OR</b> NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
SQ FT	SQUARE FEET <b>OR</b> FOOT
TBD	

# **ABBREVIATIONS (CONTINUED)**

TE	TOP ELEVATION
ТҮР	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
¢_	CENTERLINE

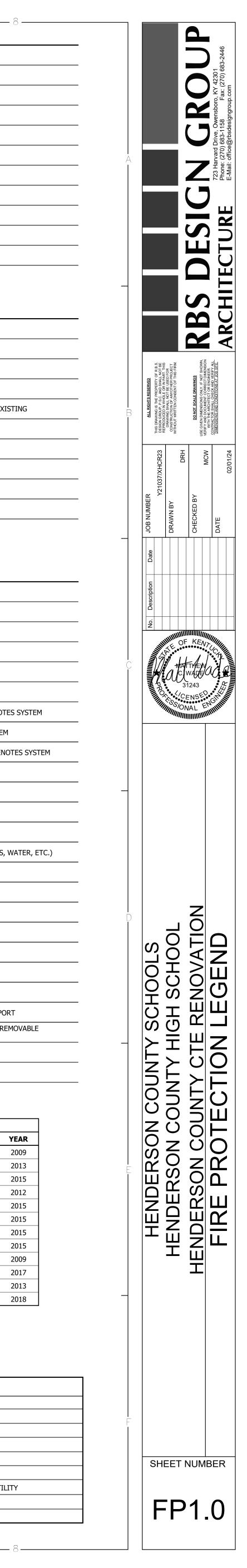
# **GENERAL SYMBOLS**

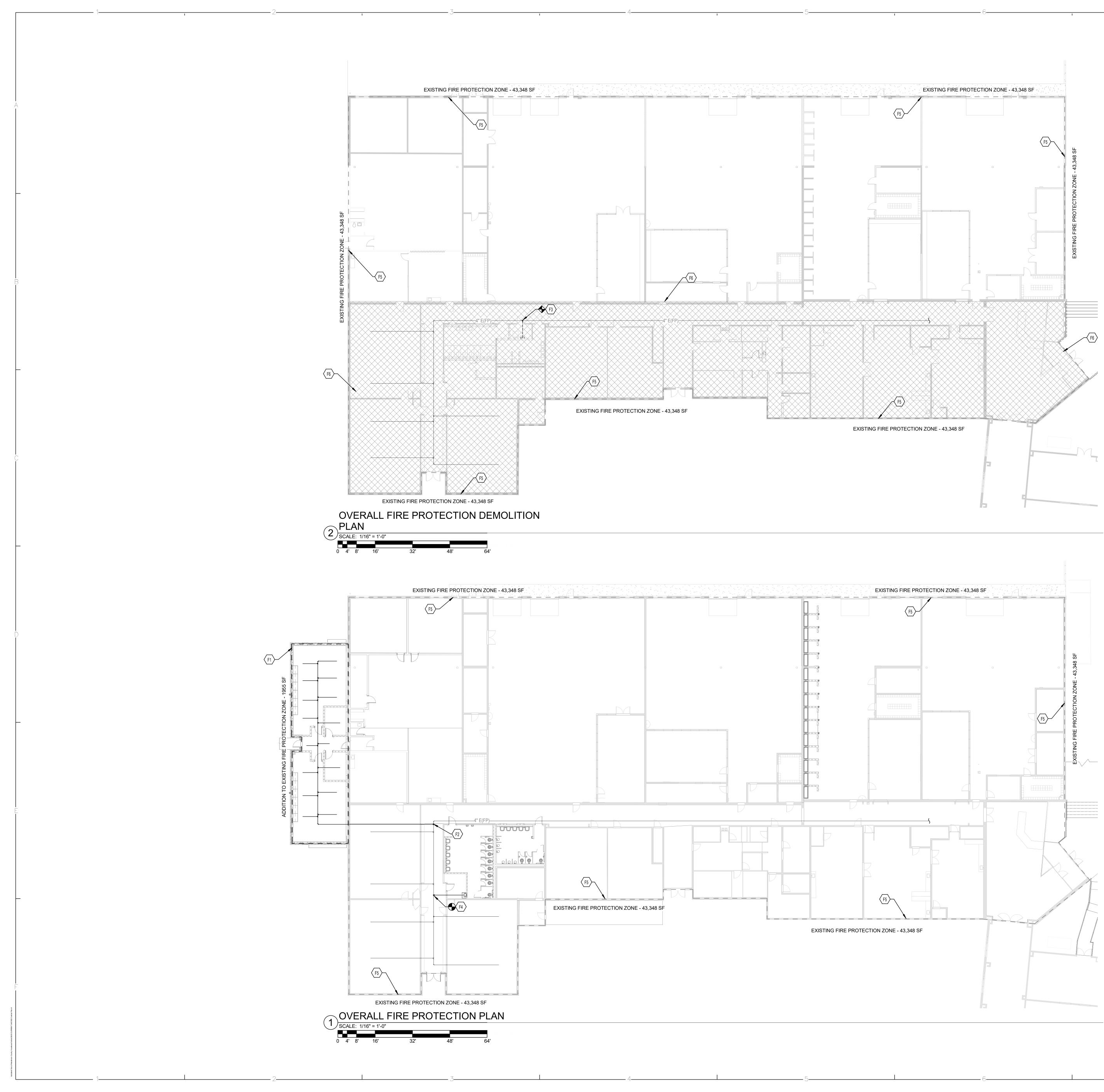
<b>(</b> # <b>)</b>	TAGGED NOTE DESIGNATOR
$\land$	REVISION TRIANGLE
ROOM NAME RM #	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
Ð	POINT OF CONNECTION / CONNECT TO EXIS
<b>\$</b>	POINT OF DEMOLITION

	CAL PIPING LEGEND
0	PIPE ELBOW TURNING UP
— <i>Э</i>	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
—— <b>∃</b>	PIPE CAP
——FP	FIRE PROTECTION PIPING
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—A(XXX)—	ABANDONED IN PLACE PIPING - (XXX) DENOT
— <del> ,</del>  —	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WA
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
III	PIPING UNION
	FLOW SWITCH
Ps	PRESSURE SWTICH
	TAMPER SWITCH
T	PETE'S PLUG; TEMPERATURE/PRESSURE PORT
0	SEMI-RECESSED SPRINKLER HEAD WITH REMO
<u> </u>	UPRIGHT TYPE SPRINKLER HEAD
	SIDEWALL TYPE SPRINKLER HEAD

APPLICABLE BUILDING CODES			
APPLICABLE BUILDING CODES	DOCUMENT		
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1		
FIRE SPRINKLER CODE	NFPA 13		
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION		
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	STATE EDITION		
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION		
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION		
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION		
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION		
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION		
NATIONAL ELECTRIC CODE (NEC)	NFPA 70		
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72		
UNIFORM STATEWIDE BUILDING CODE	КВС		

FLOW TEST
STATIC PSI: 50 PSI
RESIDUAL PSI: 37 PSI
FLOW: 888 GPM
DURATION: CONTINUOUS
DATE: JANUARY 29, 2024
SOURCE OF WATER: CITY SUPPLY
SOURCE OF DATA: HENDERSON WATER UTILI
HAZARD: LIGHT & ORDINARY
OCCUPANCY OF BUILDING: SCHOOL





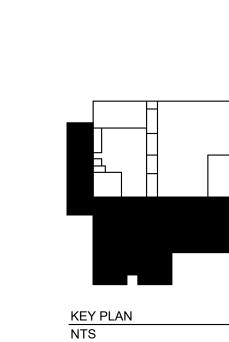
# PLUMBING FIRE PROTECTION GENERAL NOTES:

- A. FIRE PROTECTION PIPING TO BE PROVIDED ABOVE AND BELOW CLOUD CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION OF
- CLOUD CEILINGS. B. REFER TO STRUCTURAL DRAWINGS, DETAIL FOR REQUIREMENTS OF HANGING FROM JOISTS. C. REFER TO ARCHITECTURAL PLANS FOR ALL WALLS.
- COORDINATE REQUIRED FIRE STOPPING ACCORDINGLY.

# TAGGED NOTES

- F1 THE ENTIRE OUTLINED AREA SHALL BE PROTECTED WITH A 100% "WET" TYPE SPRINKLER SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA-13. PROVIDE EXTENDED COVERAGE SIDEWALL FREEZE PROOF HEADS AS REQUIRED. NOTE THAT SPRINKLER HEADS ARE SHOWN FOR COORDINATION PURPOSES ONLY. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER PIPING SO AS TO NOT INTERFERE WITH HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT. MAINTAIN ALL SERVICE CLEARANCES. OUTLINED AREA IS DESIGNATED LIGHT HAZARD PER NFPA-13.
- F2 PROVIDE FIRE MAIN TO NEW ADDITION SIZED PER HYDRAULIC CALCULATIONS. TIE IN TO EXISTING MAIN AT THE LOCATION INDICATED AND EXTENDED TO NEW ADDITION. F3 FIRE PROTECTION DRAIN LINE TO BE DEMOLISHED AT POINT INDICATED. REFER TO NEW WORK PLAN FOR RECONNECTION
- LOCATION. F4 FIRE PROTECTION DRAIN LINE TO BE RECONNECTED AT POINT INDICATED AND TO DRAIN INTO MOP BASIN.
- F5 HEAVY DASHED LINE INDICATES EXISTING FIRE PROTECTION ZONE WITH SQUARE FOOTAGE AS NOTED. F6 REFER TO ARCHITECUTURAL PLANS FOR AREA OF CEILING TILE REPLACEMENT. FIRE PROTECTION CONTRACTOR TO REMOVE AND

ARCHITECTURAL PLANS.





# $\langle \# \rangle$

INSTALL NEW SPRINKLER HEADS IN AREA INDICATED. REFER TO

