

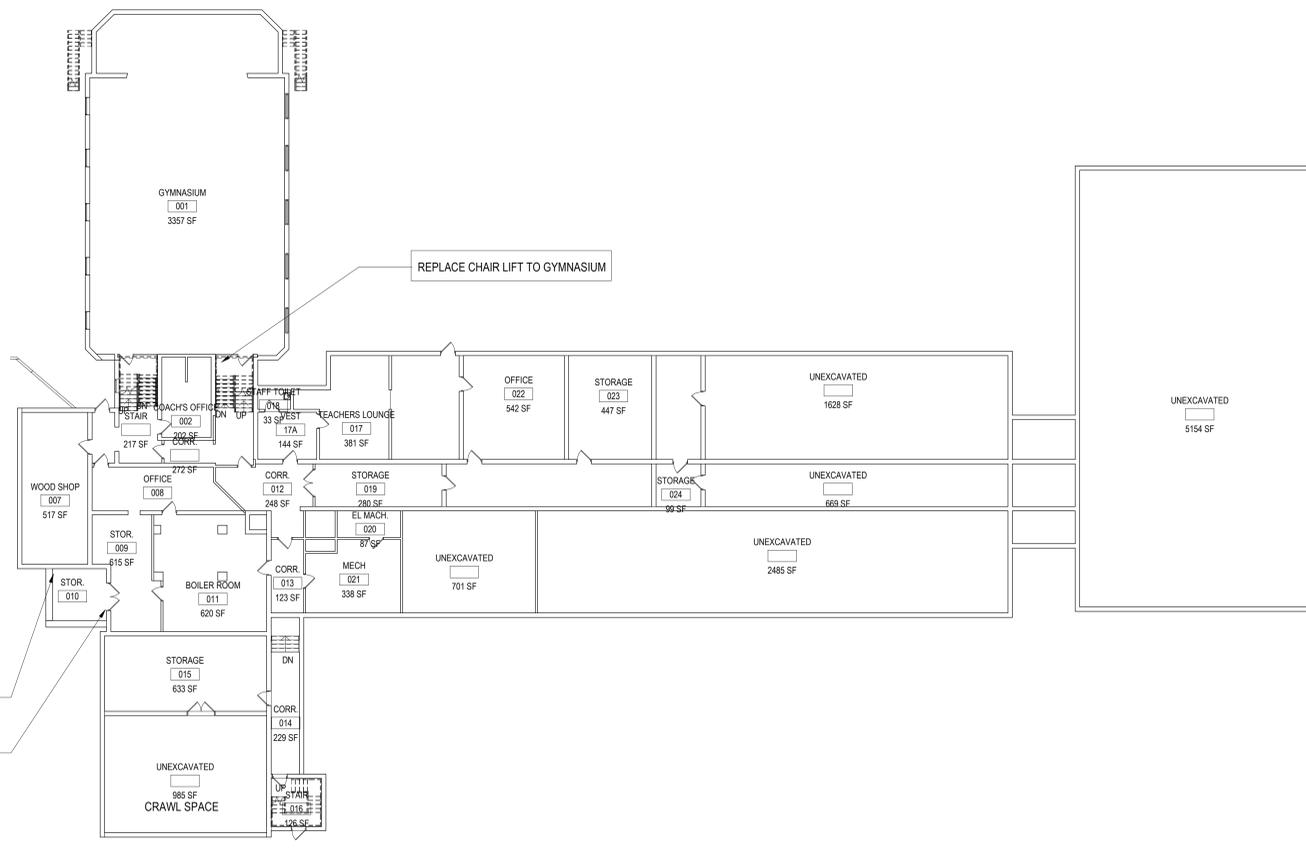
REV.	DATE	ITEM

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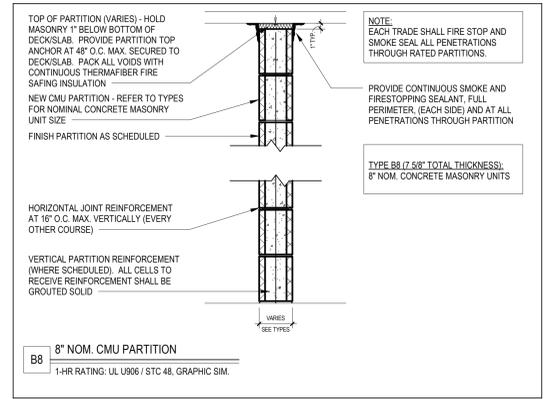
ORIGINAL DOCUMENTS



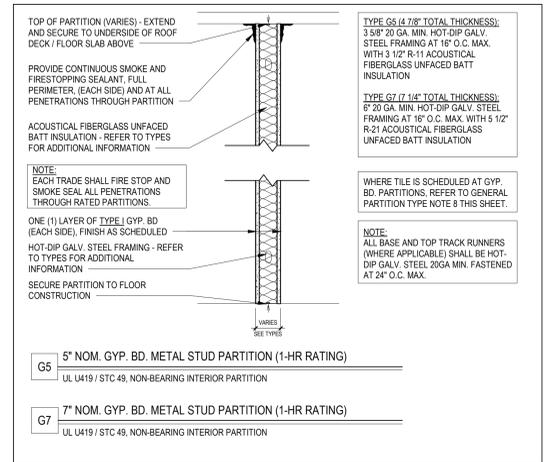
3 SECOND FLOOR SCOPE PLAN
 SCALE: 1/16" = 1'-0"



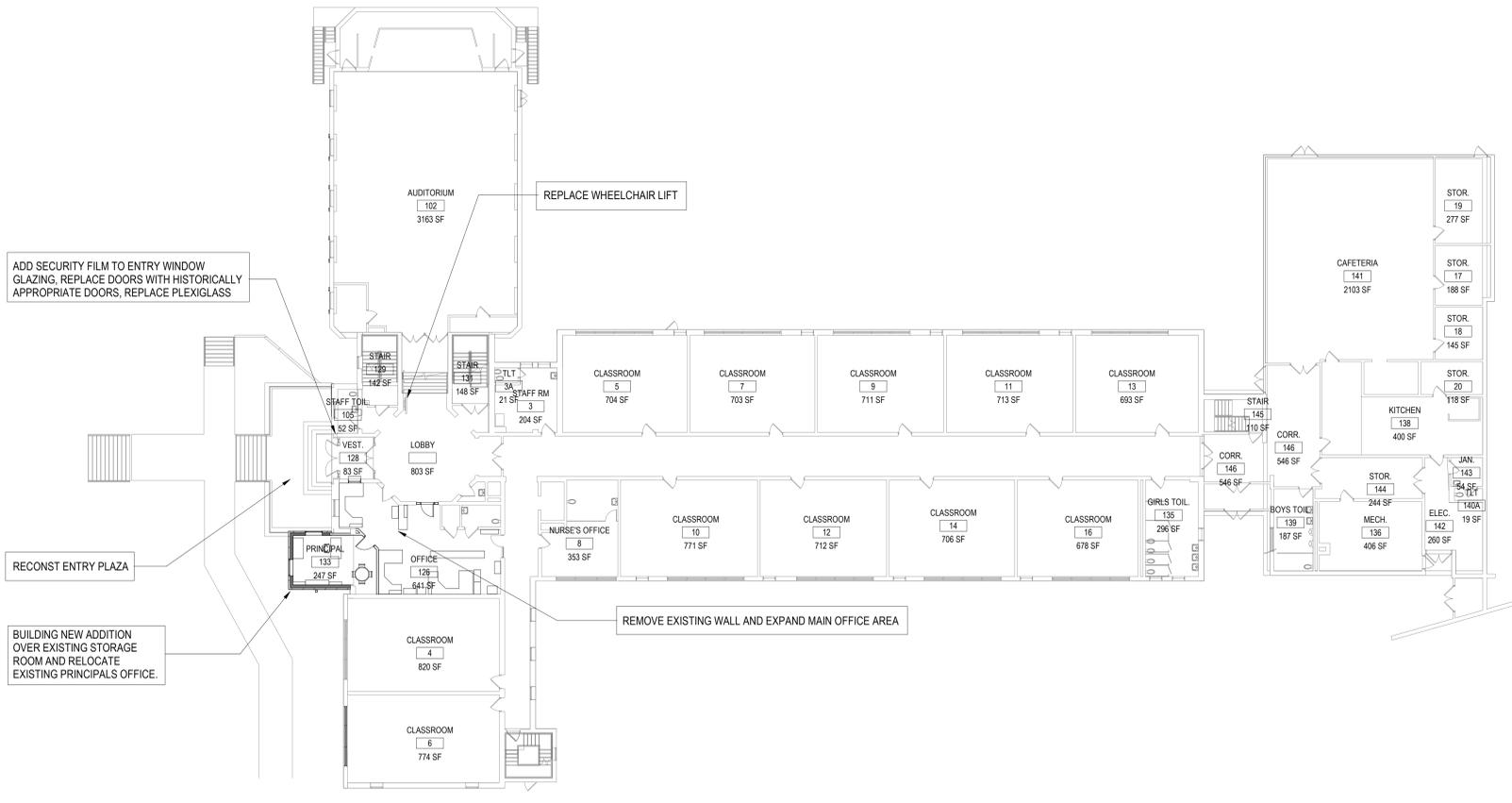
1 BASEMENT KEY PLAN
 SCALE: 1/16" = 1'-0"



4 TYPE B - NOM. CMU PARTITION - 1HR
 SCALE: 1" = 1'-0"



6 TYPE G - GYP. BD. METAL PARTITION - 1HR
 SCALE: 1" = 1'-0"



2 FIRST FLOOR KEY PLAN
 SCALE: 1/16" = 1'-0"

PROJECT
 BEDFORD CENTRAL SCHOOL DISTRICT
 PHASE 1 - BOND IMPROVEMENTS
 BEDFORD HILLS ELEMENTARY SCHOOL
 123 BABBITT RD., BEDFORD HILLS, NY 10507

DWG TITLE
 BASEMENT, FIRST AND SECOND FLOOR KEY PLANS

DRWG. BY: ED
CHK. BY: GEO

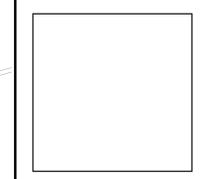
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SED. NO. 66-01-02-06-0-004-020

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 1 - BOND IMPROVEMENTS

DWG TITLE BASEMENT, FIRST AND SECOND FLOOR KEY PLANS

SCALE: AS NOTED
DATE: 11/01/22
BID PAU DATE: 01/30/23
FILE NO.: 22-225E

A0.01 OF BHS

GENERAL REMOVAL NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. E.C. TO REMOVE DEMOLITION WITH G.C. P.C. AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE. GENERAL CONTRACTOR NOT SHOWN RESPONSIBLE FOR ALL AREAS OF INTERIOR DEMOLITION AND/OR RECONSTRUCTION.
2. IT SHALL BE NOTED THAT G.C. SHALL BE RESPONSIBLE TO OPEN UP ALL WALLS (CONCRETE OR FRAMING) AND ALL FLOORING (CONCRETE) AS MAY BE REQUIRED FOR THE P.C. TO PERFORM THEIR WORK. THE G.C. SHALL BE RESPONSIBLE TO TEMPORARILY SHOR-UP THE WALLS AND CLOSE UP ALL WALLS AND FLOORS IN ACCORDANCE WITH THICKNESS AND TYPES TO MATCH EXIST. ADJACENT WORK.
3. NOTED CASEWORK AND FURNITURE REMOVALS MAY BE BASE CABINETS, COUNTERTOPS, WALL CABINETS, SHELVE, BUILT IN CASEWORK, INSTRUMENT STORAGE CABINETS OR APPLIANCES. OWNER TO REMOVE ALL LOOSE FURNISHINGS AND STORE MATERIALS PRIOR TO START OF WORK.
4. G.C. SHALL REMOVE ALL V.A.T. MASTIC AND WALL BASE, AND/OR LEAD CONTAINING CONSTRUCTION MATERIALS. REFER TO ASBESTOS/LEAD ABATEMENT PLAN AND ASBESTOS/LEAD TESTS FOR ADDITIONAL INFORMATION.
5. ALL REMOVALS OF EXISTING FLOORING WHICH ARE AFFIXED TO A.T. SHALL BE TREATED AS AN ASBESTOS ABATEMENT ITEM AND SHALL CONFORM TO REMOVAL PROCEDURES AND REQUIREMENTS.
6. G.C. SHALL SAWCUT WALLS, FLOORS, ROOF, ETC. UNLESS OTHERWISE NOTED. REFER TO M.E.P. DRAWINGS FOR LOCATIONS, DESCRIPTIONS AND RESPONSIBILITIES.
7. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. PRIOR TO REMOVAL AS A RESULT OF DEMOLITION TO PREP CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
8. G.C. SHALL VERIFY ALL REMOVALS IN OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.
9. NOTED FLOORING REMOVALS MAY BE V.C.T., CARPET OR TERRAZZO. NOTED CEILING REMOVALS MAY BE CONCEALED OR LINE SYSTEM, ACoustICAL, TILED, SYSTEM, SOFFIT AND FRAMING, OR PLASTER IN SUPPORT FRAMING. NOTED WALL REMOVALS MAY BE CON. BR. W/ FRAMING, CMU, CMU W/ APPLIED FINISHES, BRICK, OPERABLE PARTITION W/ TRACK SUPPORTS AND SHALL INCLUDE ALL DOORS AND FRAMES WHERE SHOWN. UNLESS OTHERWISE NOTED, ALL EXISTING WALL MOUNTED CHALK BD., WHITE BD. OR TACK BD. AND MASTIC/GHIPS SHALL BE REMOVED.
10. IN ALL AREAS OF FLOORING REMOVALS, THE G.C. SHALL BE RESPONSIBLE TO COMPLETELY FLUSH THE ENTIRE FLOOR SURFACE. IN PREPARATION FOR INSTALLATION OF NEW FINISHED FLOORING, G.C. SHALL FLUSH PATCH THE SURFACE WITH "WICKS" OF 1/4" FEATHER FINISH OR APPROX. EQUAL. FLOOR SURFACES SHALL BE BROADLY FREE OF DEPRESSIONS, BUMPS, UNIFORMNESS, LEVEL TO A TOLERANCE OF A MINIMUM OF +/- 1/8" AND AS SPECIFIED BY THE FLOORING MANUFACTURERS FLOORING INSTALLATION SPECIFICATIONS. THE G.C. SHALL BE RESPONSIBLE TO MAKE ANY NECESSARY CORRECTIONS TO THE FLOOR SUBSTRATE AS MAY BE DEEMED NECESSARY BY THE ARCHITECT. AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION LEGEND:

- EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL SURFACES)
- EXISTING CONSTRUCTION TO REMAIN (PROTECT)
- ROOM [001] ROOM NAME AND NUMBER

DEMOLITION KEY NOTES:

- COORDINATE WITH ASBESTOS, LEAD AND PCB ABATEMENT TESTING REPORTS ATTACHED TO THE PROJECT MANUAL, PRIOR TO COMMENCE ANY REMOVALS.
- 1 REMOVE EXISTING FLOORBASE SYSTEMS IN THEIR ENTIRETY - PREP SUB FLOOR/WALL TO ACCEPT NEW FINISHES.
 - 2 REMOVE EXISTING CEILING SYSTEMS IN THEIR ENTIRETY - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
 - 3 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL SUPPORTS IN THEIR ENTIRETY - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
 - 4 REMOVE EXISTING CONCRETE SLAB AND FOUNDATION BELOW.
 - 5 REMOVE EXISTING SELECTED WALL IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS.
 - 5A REMOVE EXISTING PORTION OF SELECTED WALL AS REQUIRED FOR NEW DOOR OR WINDOW AND APPLICABLE FRAME SYSTEM - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS.
 - 6 REMOVE EXISTING WINDOW & FRAMES IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
 - 7 REMOVE EXISTING DOOR & FRAMES IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
 - 8 INDICATES ROOMS/AREAS CONTAINING MATERIALS. REVIEW ABATEMENT REPORTS FOR ADDITIONAL INFO.

REV.	DATE	ITEM

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DWG. DOCUMENTS:

PROJECT
 BEDFORD CENTRAL SCHOOL DISTRICT
 PHASE 1 - BOND IMPROVEMENTS
 BEDFORD HILLS ELEMENTARY SCHOOL
 123 BABBITT RD. BEDFORD HILLS, NY 10507

DWG. TITLE
 DEMOLITION PLANS AND SECTION

DRWG. BY: ED
CHK. BY: GEO

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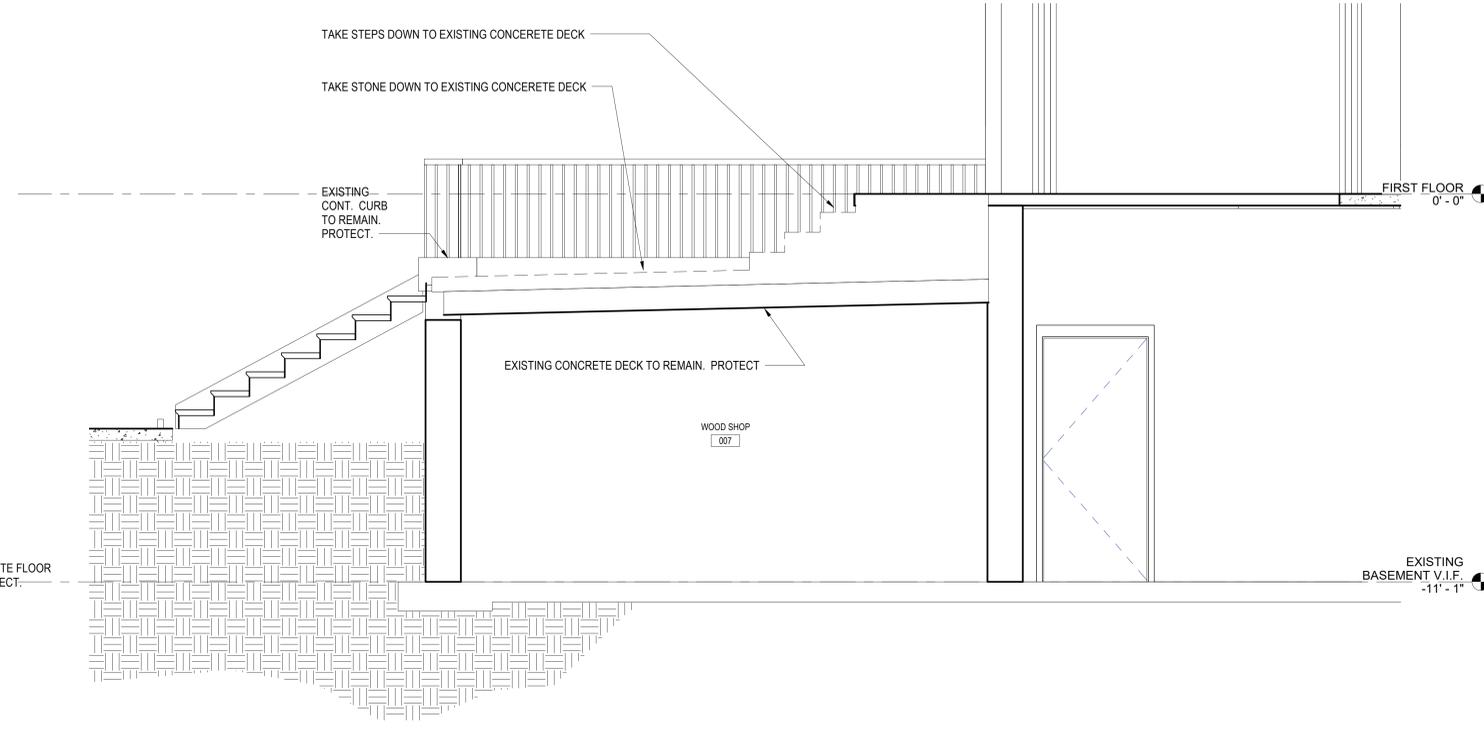
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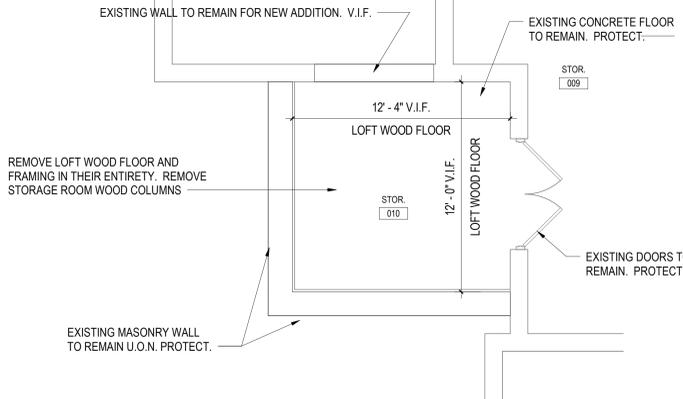
SED. NO. 66-01-02-06-0-004-020
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 1 - BOND IMPROVEMENTS
DWG. TITLE DEMOLITION PLANS AND SECTION

SCALE: AS NOTED
DATE: 11/01/22
BID P/L DATE: 02/02/23
FILE NO.: 22-225E

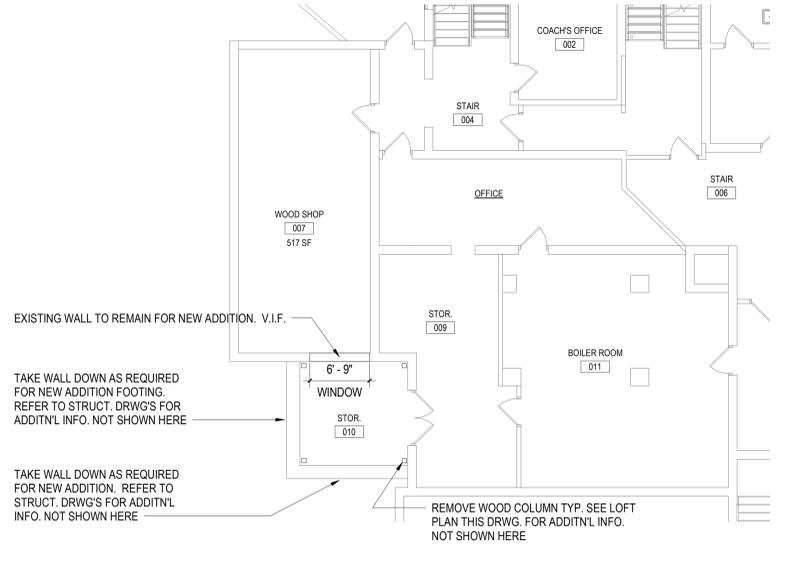
A1.01 OF BHS



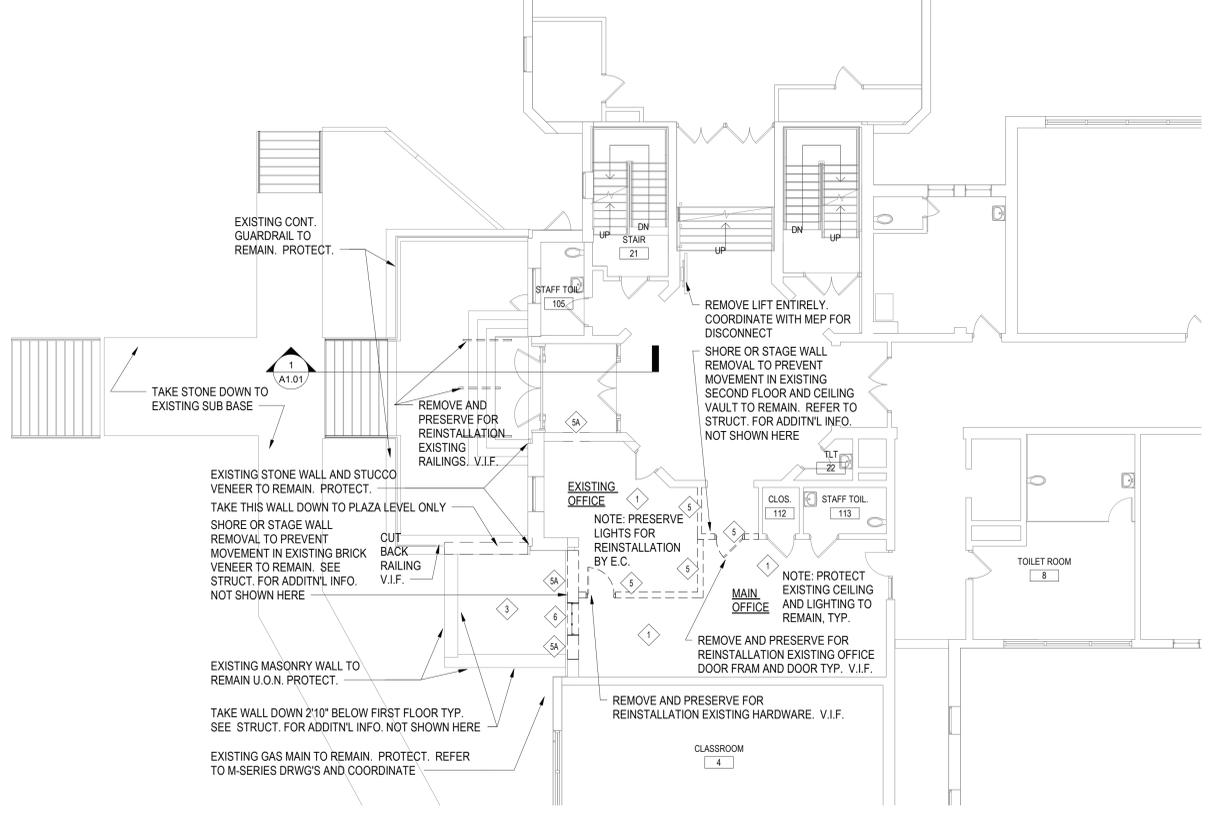
1 ENTRY PLAZA DEMO SECTION
 SCALE: 1/2" = 1'-0"



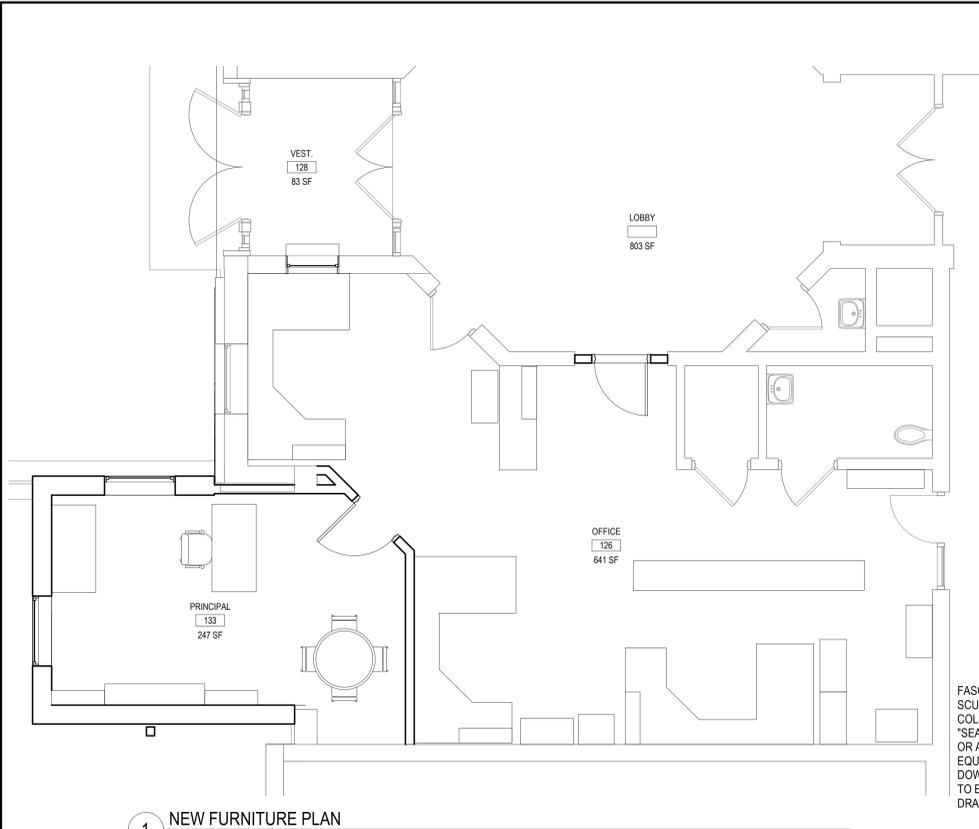
4 PARTIAL BASEMENT DEMO PLAN LOFT
 SCALE: 1/4" = 1'-0"



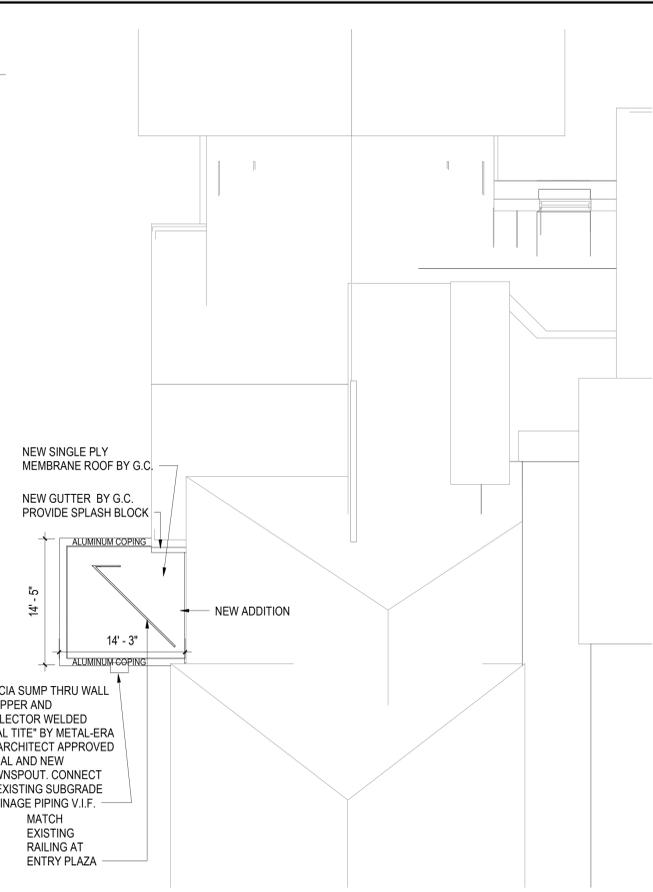
3 PARTIAL BASEMENT DEMO PLAN
 SCALE: 1/8" = 1'-0"



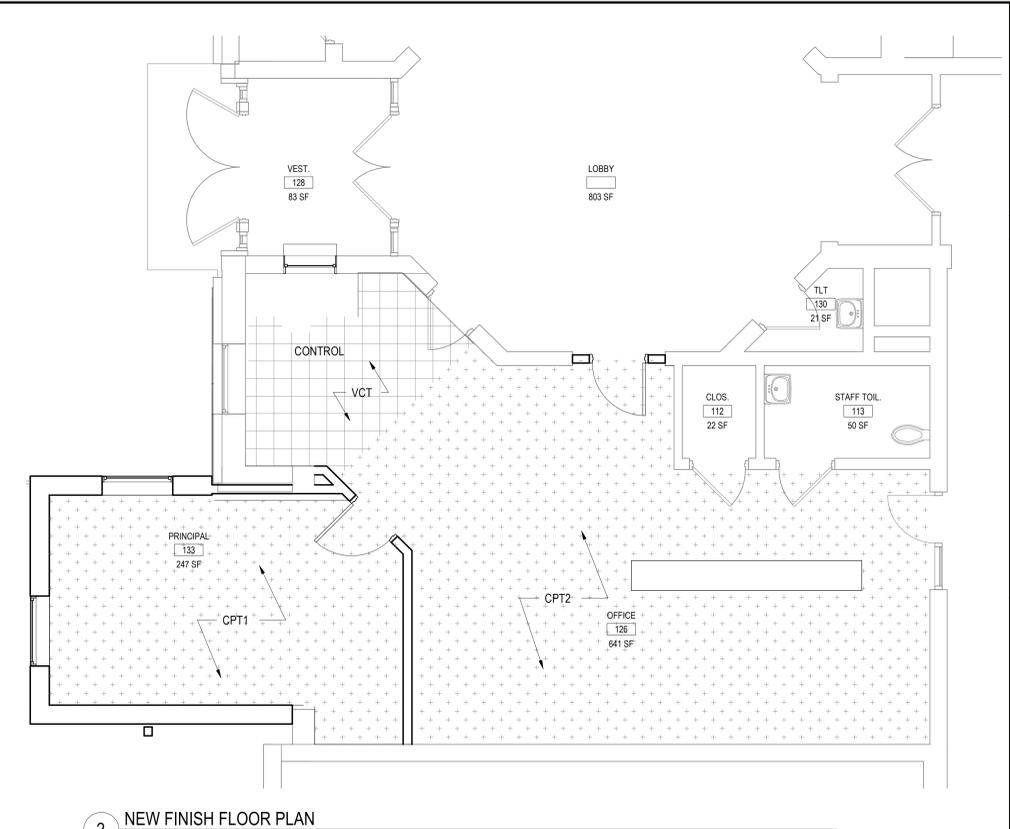
2 FIRST FLOOR DEMO PLAN
 SCALE: 1/8" = 1'-0"



1 NEW FURNITURE PLAN
SCALE: 1/4" = 1'-0"

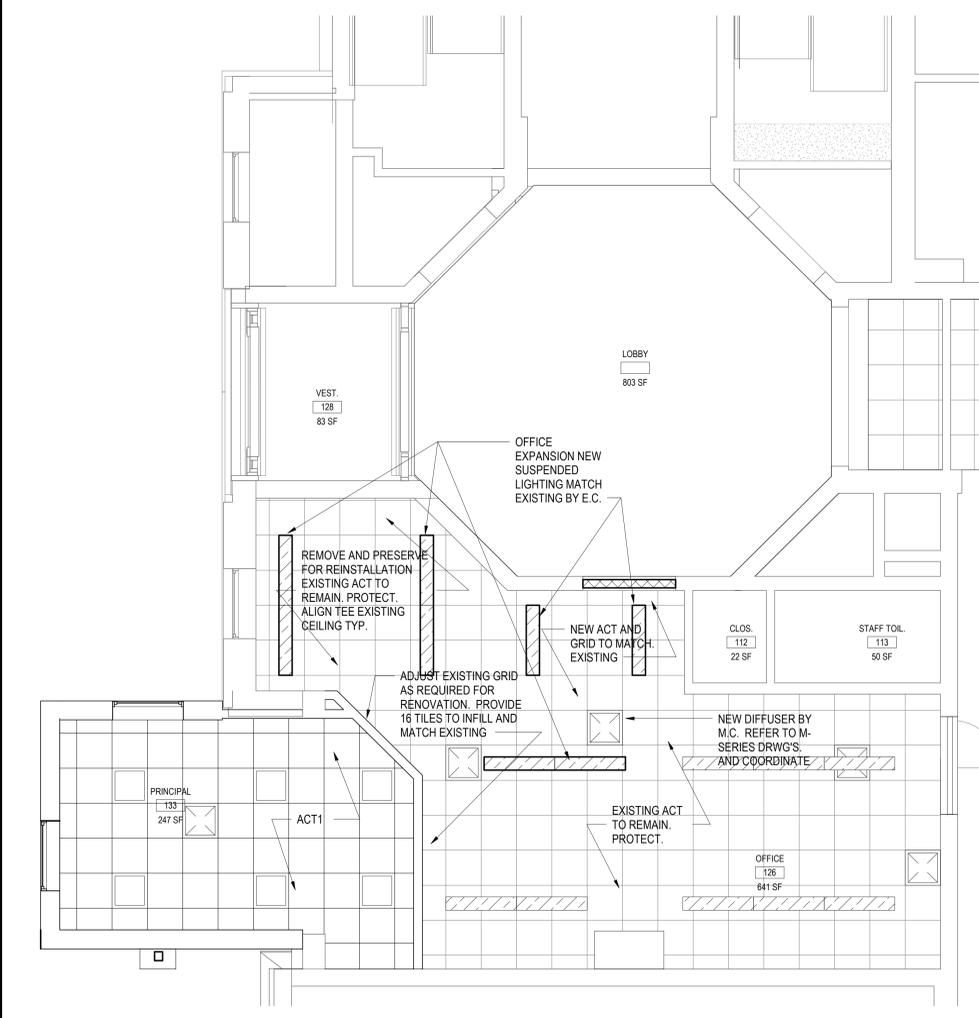


5 NEW ROOF PLAN
SCALE: 1/8" = 1'-0"

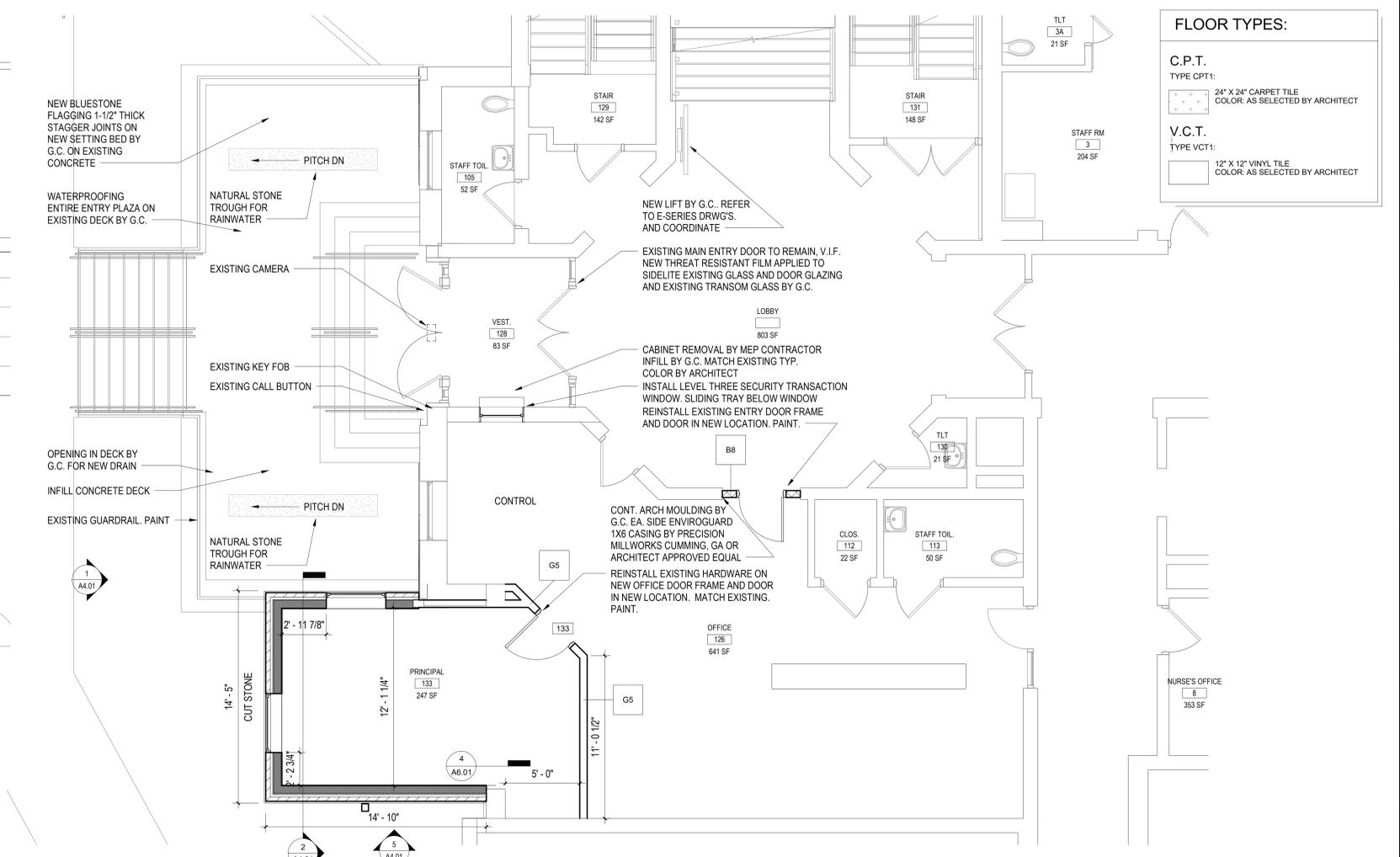


2 NEW FINISH FLOOR PLAN
SCALE: 1/4" = 1'-0"

INTERIOR FINISH NOTE:
INTERIOR FINISH MATERIALS SHALL BE CLASSIFIED, IN ACCORDANCE WITH RECOGNIZED STANDARD TEST ASTM E 84, NFPA-255 AND SHOULD HAVE A FLAME SPREAD 0-25; ANY MATERIAL CLASSIFIED AT 25 OR LESS, AND ANY ELEMENT THEREOF WHICH, WHEN SO TESTED, SHALL NOT CONTINUE TO PROPOGATE FIRE. REGARDLESS OF THE FLAME SPREAD CLASSIFICATION, NO MATERIAL HAVING A SMOKE-DEVELOPED RATING OF 450 OR MORE SHALL BE USED.



4 NEW REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



3 NEW SECURITY VESTIBULE PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR TYPES:

C.P.T.
TYPE CPT1:
24" X 24" CARPET TILE
COLOR: AS SELECTED BY ARCHITECT

V.C.T.
TYPE VCT1:
12" X 12" VINYL TILE
COLOR: AS SELECTED BY ARCHITECT

REV.	DATE	ITEM

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ORIGINAL DOCUMENTS

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BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 1 - BOND IMPROVEMENTS
BEDFORD HILLS ELEMENTARY SCHOOL
123 BARBITT RD. BEDFORD HILLS, NY 10507

DWG/TITLE
SECURITY VESTIBULE ENLARGED FLOOR PLANS AND ROOF PLAN

DRWG. BY: Author
CHK. BY: Checker

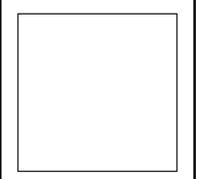
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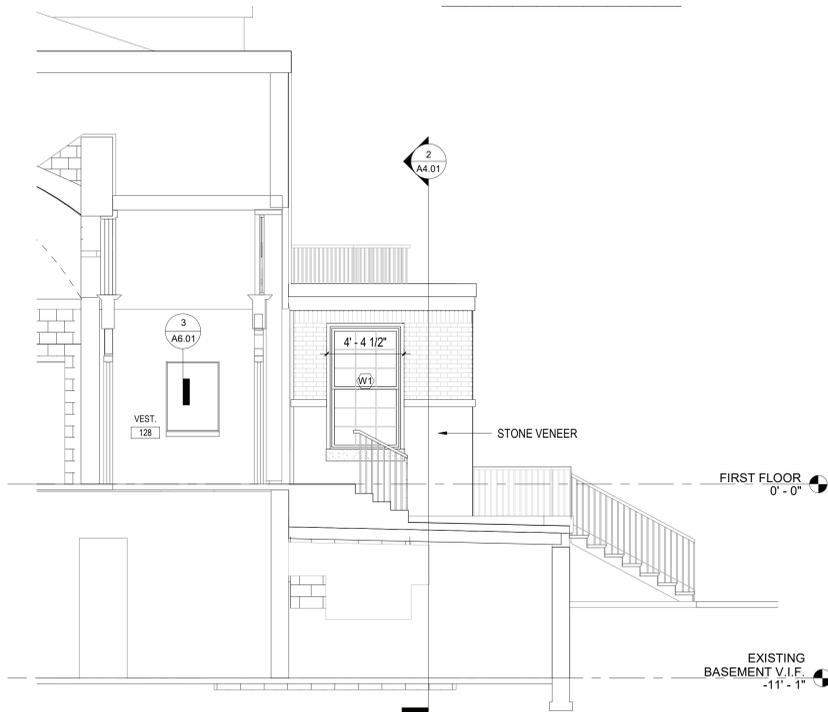
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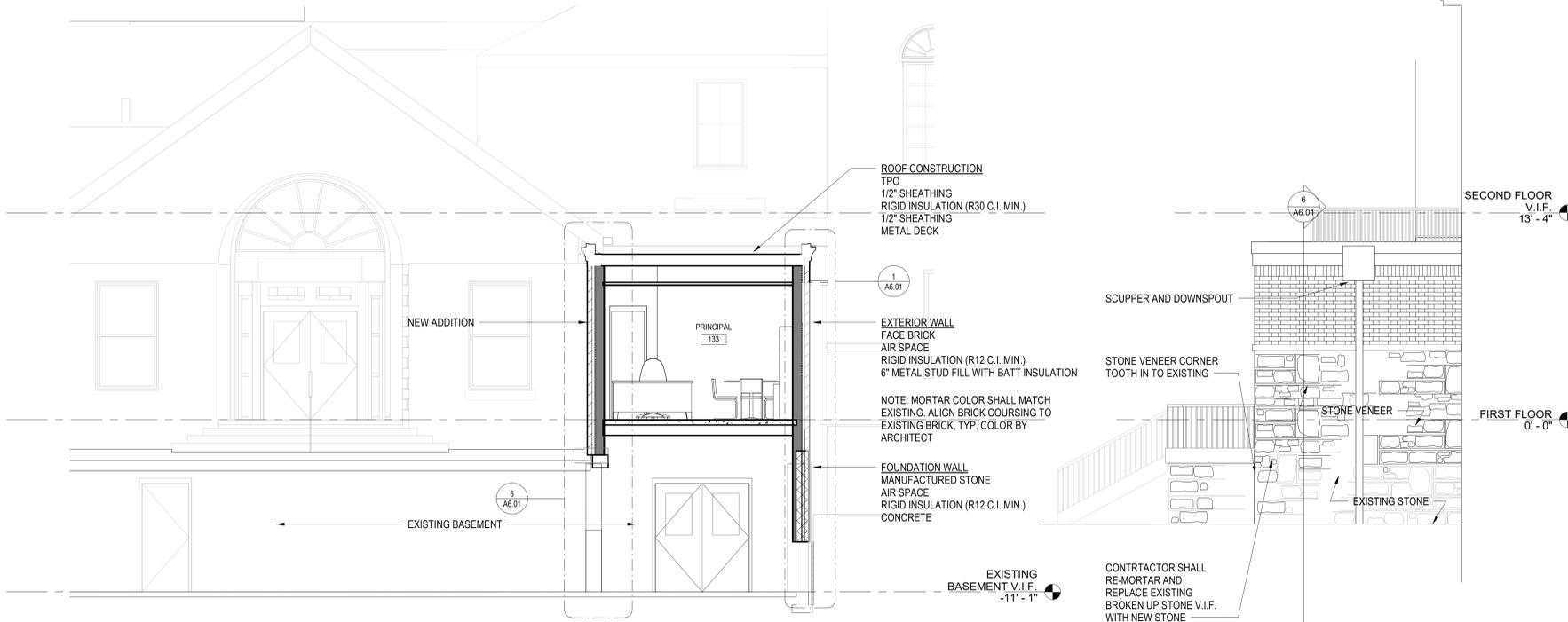
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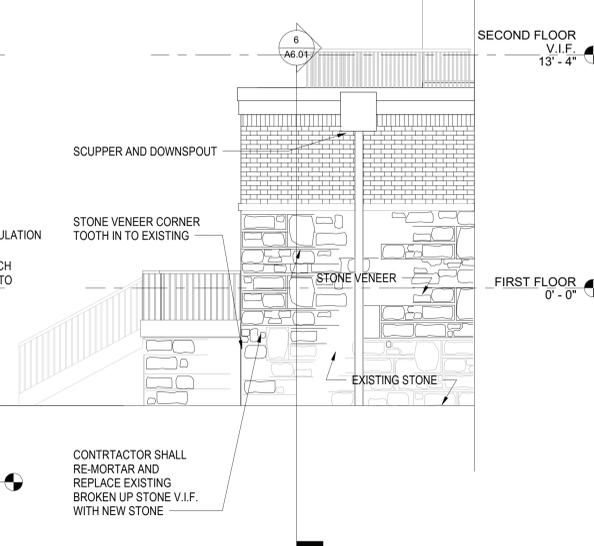
SED. NO. 66-01-02-06-0-004-020
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 1 - BOND IMPROVEMENTS
DWG. TITLE SECURITY VESTIBULE ENLARGED FLOOR PLANS AND ROOF PLAN
SCALE: AS NOTED
DATE: 11/01/22
BID PAU DATE: 01/31/23
FILE NO. 22-225E



3 BUILDING ENTRY NEW SECTION DETAIL
SCALE: 1/4" = 1'-0"



2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



5 Elevation 5 - a
SCALE: 1/4" = 1'-0"



1 NEW NORTH ELEVATION
SCALE: 1/4" = 1'-0"

AREA	RM. NO.	LOCATION	FLOOR		BASE		WALLS		CEILING		REMARKS	
			MATERIAL	TYPE	MATERIAL	TYPE	MATERIAL	TYPE	TYPE	HEIGHT		
			ES	ENTRY	133	PRINCIPAL	CPT	CPT1	RUBBER	RCB1		GWB
		126	OFFICE	CPT	CPT2	RUBBER	RCB2	EXISTING	PLASTER	EXISTING	10'-0" V.I.F.	EXISTING CEILING TO BE REMOVED AND REINSTALLED AS REQUIRED. NEW BASE/PAINT
		007	WOOD SHOP	EXISTING	CONCRETE	-	-	EXISTING	MASONRY	-	-	CONCRETE TO REMAIN. SEE TESTING REPORT. STRIP CEILING PAINT ENTIRELY. PAINT.

REV.	DATE	ITEM

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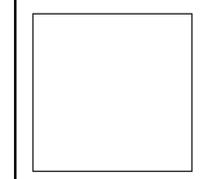
PROJECT
 BEDFORD CENTRAL SCHOOL DISTRICT
 PHASE 1 - BOND IMPROVEMENTS
 BEDFORD HILLS ELEMENTARY SCHOOL
 123 BARBITT RD. BEDFORD HILLS, NY 10507

DWG TITLE
 BUILDING ELEVATIONS, SECTIONS AND FINISH SCHEDULE

DRWG. BY: Author
CHK. BY: Checker

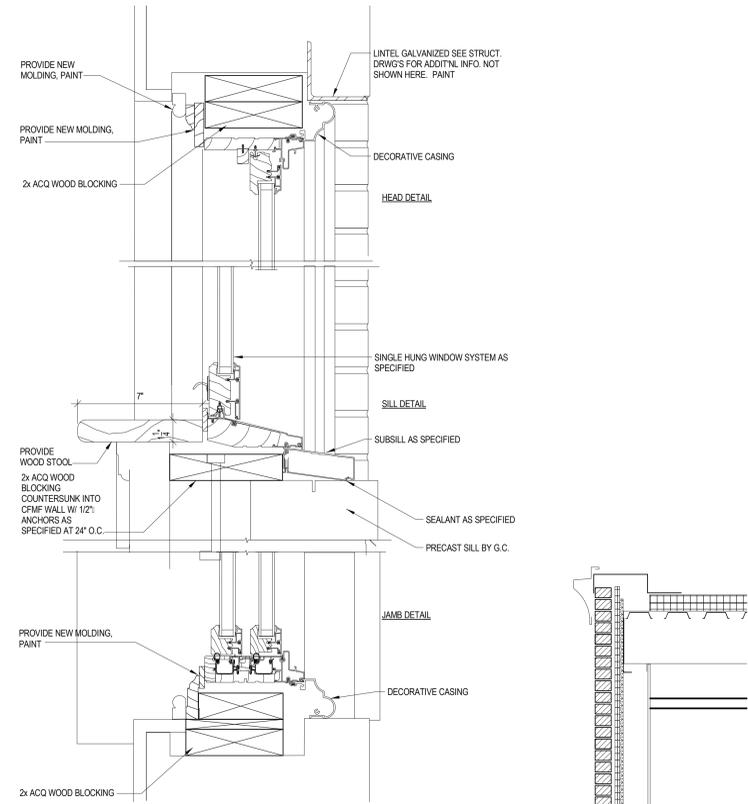
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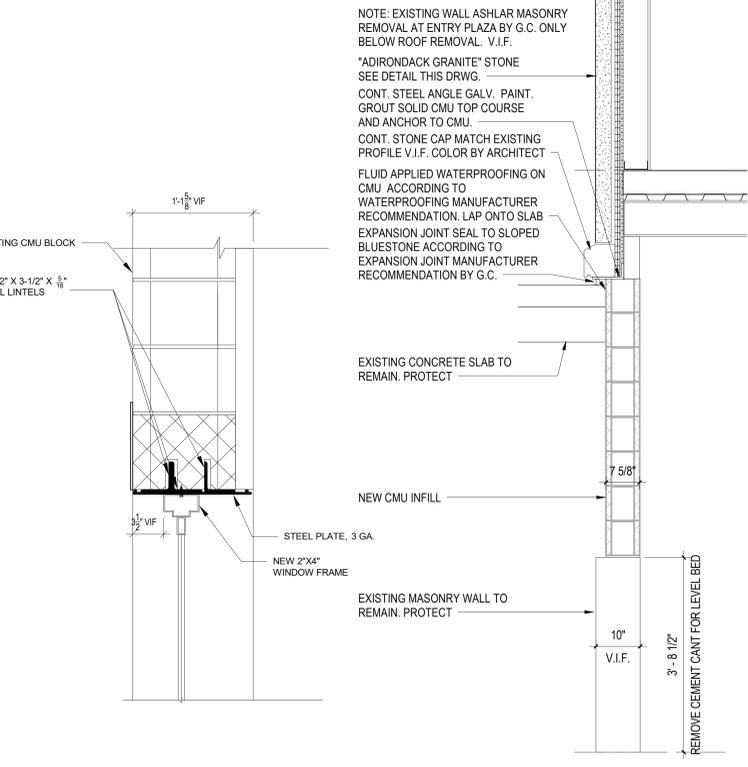


SED No. 66-01-02-06-0-004-020
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 1 - BOND IMPROVEMENTS
DWG TITLE BUILDING ELEVATIONS, SECTIONS AND FINISH SCHEDULE
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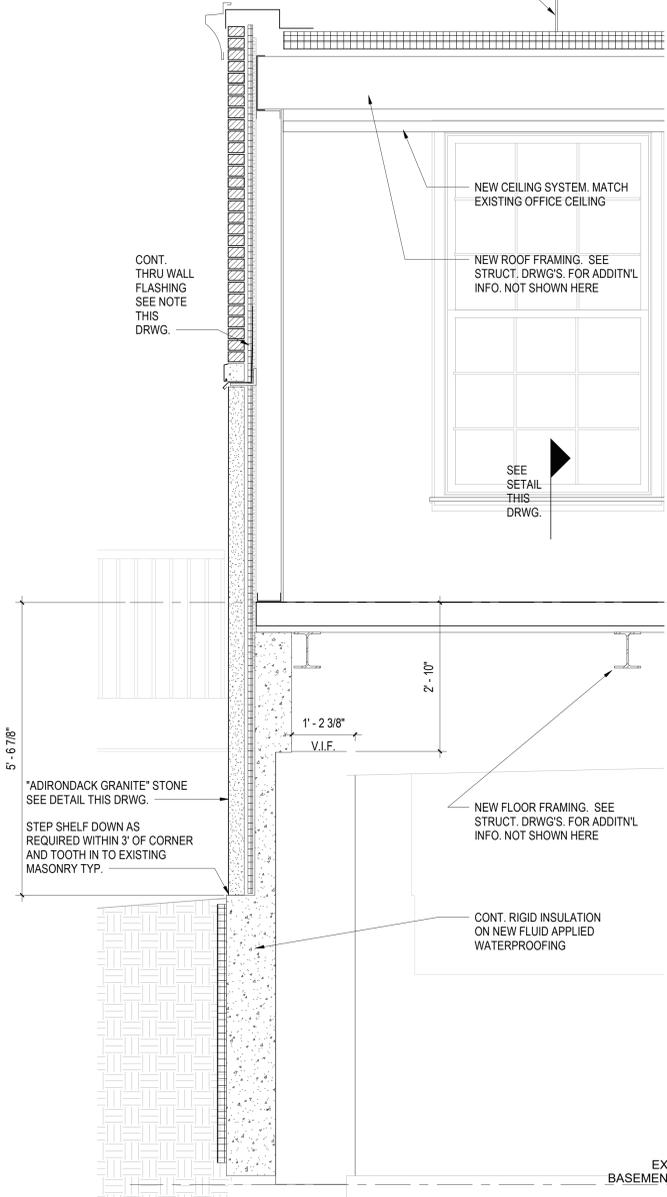
A4.01 OF BHS



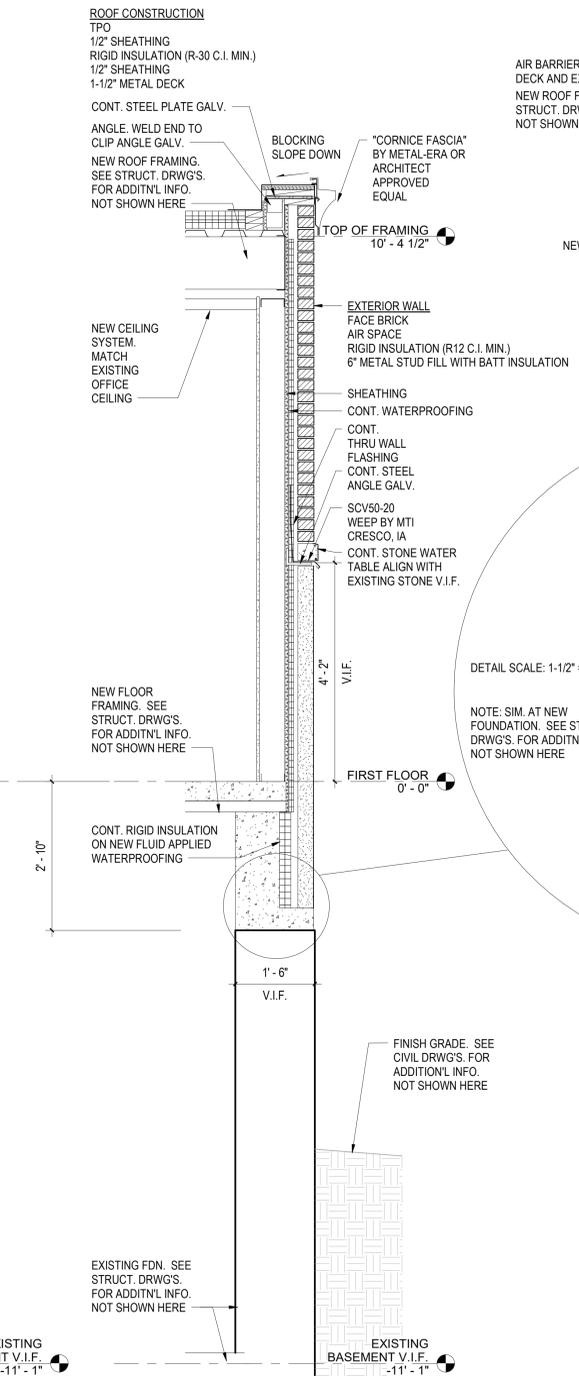
2 NEW WINDOW W1 SECTION DETAIL
SCALE: 1/4" = 1'-0"



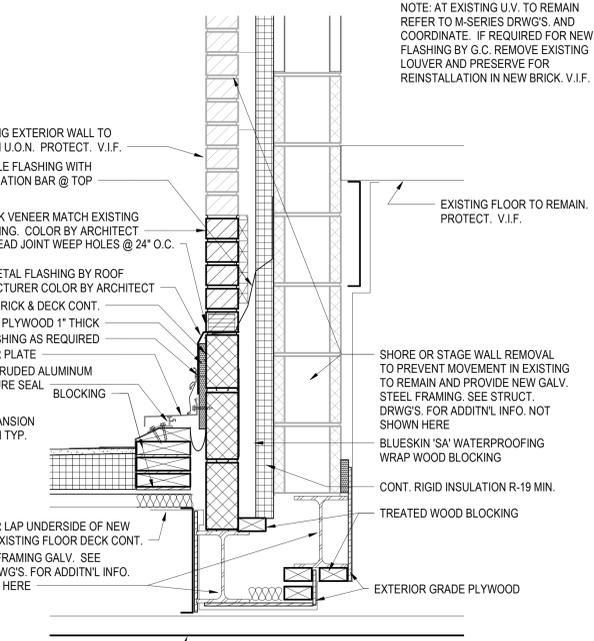
3 NEW WINDOW SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



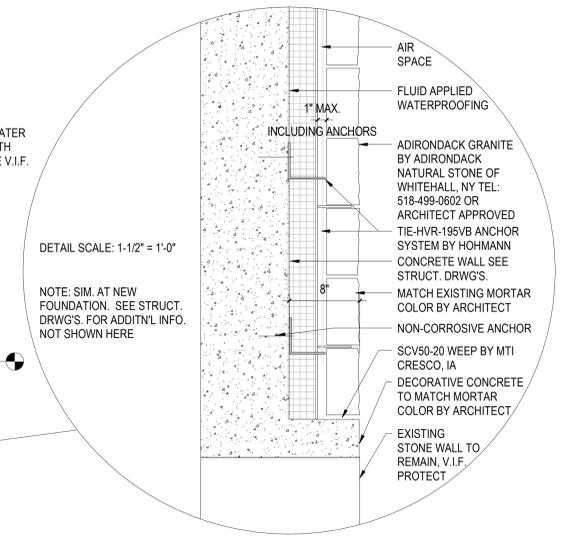
5 WALL SECTION PRINCIPAL
SCALE: 3/4" = 1'-0"



1 NEW WALL SECTION DETAIL
SCALE: 3/4" = 1'-0"



4 WALL SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



DETAIL SCALE: 1-1/2" = 1'-0"

NOTE: AT EXISTING U.V. TO REMAIN REFER TO M-SERIES DRWG'S. AND COORDINATE. IF REQUIRED FOR NEW FLASHING BY G.C. REMOVE EXISTING LOUVER AND PRESERVE FOR REINSTALLATION IN NEW BRICK. V.I.F.

REV.	DATE	ITEM

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PHASE 1 - BOND IMPROVEMENTS
BEDFORD HILLS ELEMENTARY SCHOOL
123 BABBITT RD. BEDFORD HILLS, NY 10507

DWG TITLE
WALL SECTIONS AND DETAILS

DRWG. BY: Author
CHK. BY: Checker

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PROJECT PHASE 1 - BOND IMPROVEMENTS
DWG. TITLE WALL SECTIONS AND DETAILS
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FILE NO. 22-225E

A6.01 OF BHS

DESIGN LOADS AND CRITERIA

- 1. DESIGN PROVISIONS: 2020 NYS BUILDING CODE BUILDING RISK CATEGORY III TERRAIN EXPOSURE CATEGORY B BASIC SEISMIC MAIN WIND FORCE RESISTING SYSTEM FOR SKYLIGHT ONLY: NORTH-SOUTH, LIGHT FRAME (CFMF) WALLS SHEATHED WITH STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE EAST-WEST, LIGHT FRAME (CFMF) WALLS SHEATHED WITH STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

- 2. ROOF DEAD LOAD, 20 PSF (TYPICAL) PORTION OF ABOVE ROOF DEAD LOAD FOR MECHANICAL EQUIPMENT AND PIPING SUSPENDED FROM STRUCTURAL FRAMING, 5 PSF

CONCENTRATED LOADS SHALL BE LIMITED TO THOSE WHICH INDUCE MOMENTS AND SHEARS IN MEMBERS NOT GREATER THAN THOSE INDUCED BY THE NOTED UNIFORMLY DISTRIBUTED LOADS.

- 3. ROOF LIVE LOAD, 20 PSF (TYPICAL)

- 4. SNOW LOAD:

GROUND SNOW LOAD (Pg), 30 PSF FLAT ROOF SNOW LOAD (Pn), 35 PSF EXPOSURE FACTOR (Ce), 1.0 THERMAL FACTOR (Ct), 1.0 IMPORTANCE FACTOR (I), 1.1 RAIN LOAD (PONDING), NOT APPLICABLE RAIN-ON-SNOW SURCHARGE, NOT APPLICABLE

DRIFTED, UNBALANCE AND SLIDING SNOW LOADS AS INDICATED IN AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD ASCE 7-16.

- 5. WIND LOAD:

BASIC WIND SPEED, 125 MPH EXPOSURE CATEGORY B TOPOGRAPHIC FACTOR, 1.0 HEIGHT OF MAIN ROOF, 15 FEET

- 6. SEISMIC LOADS:

RISK CATEGORY, III SITE CLASS, D SHORT-PERIOD ACCELERATION (Sps), 0.289 g ONE-SECOND ACCELERATION (Sps), 0.096 g SEISMIC DESIGN CATEGORY, B SEISMIC IMPORTANCE FACTOR (I), 1.25

STRUCTURAL MATERIALS

STRUCTURAL STEEL AND MISCELLANEOUS STEEL ROLLED STEEL W SHAPES: ASTM A 992 ROLLED STEEL C, MC SHAPES: ASTM A 36 ROLLED STEEL PLATES, BARS, AND ANGLES: ASTM A 36 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A 500 GRADE B OR C STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B HIGH-STRENGTH BOLTS: ASTM A 325 OR ASTM A 490 SHEAR CONNECTORS: ASTM A 108, GRADES 1010 THROUGH 1020 HEADED-STUD TYPE UNHEADED ANCHOR RODS: ASTM F 1554 THREADED ANCHORS: ASTM A 36 WELD ELECTRODES: AWS E70XX FOR CONNECTIONS, PROVIDE HIGHER GRADE OR AS REQUIRED FOR CAPACITY.

FASTENERS POWDER ACTUATED FASTENERS (PAF): HILTI D 0.177 DIA DS/EDS ADHESIVE ANCHORS (SOLID CONC OR MASONRY): HILTI HIT HY 200

CONCRETE FOOTINGS, FOUNDATION WALLS, PIERS, GRADE BEAMS, MISC: 28 DAY COMPRESSIVE STRENGTH, Fc = 3,000 PSI SLUMP: 3 TO 5 INCHES AIR ENTRAINMENT, 5% ± 1%

INTERIOR SLABS ON GRADE AND SLABS ON DECK: 28 DAY COMPRESSIVE STRENGTH, Fc = 3,500 PSI SLUMP: 3 TO 5 INCHES AIR ENTRAINMENT: 3% (MAX). DO NOT ADD AIR ENTRAINING ADMIXTURE. AIR ENTRAINMENT OCCURS AS A RESULT OF MIXING.

SEE SPECIFICATIONS AND NOTES FOR ADDITIONAL INFORMATION.

MASONRY: CONCRETE BLOCK: ASTM C 90, 2,800 PSI NET COMPRESSIVE STRENGTH, MORTAR - ASTM C 270, TYPE S UNIT MASONRY: ASTM C 90 CMU, 2,800 PSI NET COMPRESSIVE STRENGTH, MORTAR - ASTM C 270, TYPE S, Fm=2,000PSI GROUT: ASTM C 476, 2,500 PSI COMPRESSIVE STRENGTH, 8 TO 10 INCH SLUMP

REINFORCING, CONCRETE OR MASONRY: ASTM A 615, GRADE 60

DIMENSION LUMBER: STUDS, NO. 1 NO. 2 OR BETTER, SPRUCE-PINE-FIR (SPF) STRUCTURAL FRAMING, NO. 1 NO. 2 OR BETTER, SPRUCE-PINE-FIR (SPF)

ENGINEERED LUMBER: LAMINATED VENEER LUMBER (LVL), MICROLAM AS MANUFACTURER BY ILEVEL. PREMANUFACTURED JOISTS, TJI AS MANUFACTURED BY ILEVEL.

GENERAL NOTES:

- 1. DIMENSIONS TO, OF, AND IN EXISTING STRUCTURE SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN THE EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS, AND STRUCTURAL DRAWINGS.
3. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
4. SECTIONS, AND DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
5. THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
6. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR COMPONENTS SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY THE ENGINEER.
8. DO NOT SUSPEND MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS FROM ROOF DECK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR HANGERS AND SUPPLEMENTAL FRAMING REQUIRED TO ATTACH THESE ITEMS TO THE MAIN ROOF FRAMING.
9. BRACE BUILDING UNTIL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: FLOOR DECK, ROOF DECK, SHEAR WALLS, MOMENT FRAMES, BRACING MEMBERS, AND CONNECTIONS.
10. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.
11. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION AND REMOVALS REQUIRED FOR EXISTING CONDITIONS.
12. COORDINATE THE NUMBER AND LOCATION OF ROOF DRAINS AND OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
13. COORDINATE STAIRWAYS, DIMENSIONS, AND STAIR OPENINGS WITH ARCHITECTURAL DRAWINGS AND STAIR FABRICATOR SHOP DRAWINGS.

CAST-IN-PLACE CONCRETE NOTES:

- 1. REINFORCE CONCRETE ELEMENTS INCLUDING FOOTINGS, WALLS, GRADE BEAMS, PIERS, AND SLABS. REINFORCEMENT SHOWN PERTAINS TO TYPICAL CONDITIONS.
2. COORDINATE CONCRETE MIX DESIGNS WITH CONCRETE MIX SCHEDULE AND DESIGN DATA NOTES.
3. LAP SPLICE CONCRETE REINFORCEMENT AS SHOWN IN BAR LAP SPLICE SCHEDULE, UNLESS NOTED OTHERWISE. PROVIDE CLASS B LAP UNLESS NOTED OTHERWISE.
4. PROVIDE CORNER BARS IN CONTINUOUS FOOTINGS, THE SAME SIZE AND NUMBER AS CONTINUOUS REINFORCEMENT. LAP SPLICE WITH MAIN REINFORCEMENT AS SHOWN IN BAR LAP SPLICE SCHEDULE BUT NOT LESS THAN 2'-0".
5. EXTEND WALL FOOTING REINFORCEMENT INTO COLUMN FOOTINGS WITH A MINIMUM EMBEDMENT EQUAL TO THE MINIMUM BAR DEVELOPMENT LENGTH.
6. CAST STEPPED FOOTINGS MONOLITHICALLY.
7. DOWEL CONCRETE WALLS AND PIERS INTO FOOTINGS WITH DOWELS THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3 INCHES OF BOTTOM OF FOOTING. TERMINATED WITH ACI STANDARD 90 DEGREE HOOK. LAP SPLICE WITH VERTICAL REINFORCEMENT UNLESS NOTED OTHERWISE.
8. CAST CONCRETE PIERS IN CONCRETE WALLS MONOLITHICALLY WITH WALLS.

- 9. VERIFY SIZE AND LOCATION OF MECHANICAL OPENINGS THROUGH CONCRETE MEMBERS PRIOR TO PLACING CONCRETE. PROVIDE SLEEVE OR CHASE FOR PIPING, CONDUIT, OR DUCT PENETRATIONS. CORE DRILLING IS NOT PERMITTED.
10. DO NOT LOCATE PENETRATIONS FOR THROUGH FOOTINGS. STEP FOOTINGS DOWN AS REQUIRED TO LOCATE PENETRATION IN WALL.
11. DO NOT LOCATE PENETRATIONS THROUGH PIERS, COLUMNS, BEAMS OR GRADE BEAMS UNLESS SHOWN IN DRAWINGS OR ACCEPTED BY ENGINEER.
12. INSTALL EMBEDDED PIPES OR CONDUIT IN STRUCTURAL CONCRETE AS FOLLOWS:
a. ALUMINUM CONDUITS AND PIPES ARE NOT PERMITTED.
b. CONDUIT AND PIPE OUTSIDE DIAMETER SHALL NOT EXCEED 1/3 THE THICKNESS OF SLAB, BEAM OR WALL IN WHICH THEY ARE EMBEDDED.
c. SPACE CONDUIT AND PIPE A MINIMUM OF 3 DIAMETERS (WIDTHS) ON CENTER OR 4 INCHES WHICHEVER IS GREATER.
d. PROVIDE A MINIMUM OF 1 1/2 INCH COVER FOR CONCRETE EXPOSED TO EARTH OR WEATHER OR 3/4 INCH COVER OTHERWISE, UNLESS NOTED OTHERWISE.
e. REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS.

- 13. CHAMFER EXPOSED CONCRETE CORNERS AND EDGES 3/4 INCH UNLESS NOTED OTHERWISE.
14. CONCRETE COVER FOR REINFORCEMENT SHALL BE AS INDICATED IN CONCRETE COVER SCHEDULE.

STRUCTURAL STEEL NOTES:

- 1. DO NOT BEGIN STEEL ERECTION UNTIL SUPPORTING CONCRETE OBTAINS 75 PERCENT OF THE MATERIAL STRENGTHS NOTED IN DESIGN DATA NOTES.
2. LOCATE ROOFTOP MECHANICAL UNITS AS SHOWN. COORDINATE WITH MECHANICAL DRAWINGS. NOTIFY ENGINEER IF ACTUAL UNIT WEIGHTS EXCEED THE WEIGHTS SHOWN ON DRAWINGS.
3. WHERE BEAM SPACING IS NOT NOTED, SPACE BEAMS EQUALLY BETWEEN COLUMNS OR BETWEEN COLUMNS AND WALLS.
4. MINIMUM CAPACITY OF BEAM CONNECTIONS: FOR CONNECTIONS NOT DETAILED, PROVIDE CONNECTION CAPACITY FOR REACTIONS SHOWN ON DRAWINGS OR, IF NOT SHOWN, BASED ON EITHER ALLOWABLE STRESS DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN AS FOLLOWS:
A. AT LEAST 50 PERCENT OF THE ALLOWABLE UNIFORM LOAD FROM ALLOWABLE UNIFORM LOAD TABLES IN AISC ASD MANUAL, PART 2, FOR THE GIVEN STEEL MEMBER.
B. AT LEAST 50 PERCENT OF THE MAXIMUM TOTAL FACTORED UNIFORM LOAD FROM MAXIMUM TOTAL FACTORED UNIFORM LOAD TABLES IN AISC LRFD MANUAL, PART 5, FOR THE GIVEN STEEL MEMBER.
C. FOR BEAMS AND GIRDERS WITH SHEAR CONNECTORS, PROVIDE CONNECTION CAPACITY OF AT LEAST 70 PERCENT OF THE UNIFORM LOAD VALUES (ASD OR LRFD, AS APPROPRIATE), UNLESS INDICATED OTHERWISE ON DRAWINGS.
D. CONCENTRATED LOADS NEAR SUPPORTS MUST BE ADDED.

- 5. PROVIDE HOT DIP GALVANIZED FASTENERS FOR GALVANIZED FRAMING CONNECTIONS AND STAINLESS STEEL FASTENERS FOR STAINLESS STEEL FRAMING CONNECTIONS.
6. FABRICATE AND ERECT STEEL IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

- 7. SLOPE ROOF STEEL UNIFORMLY BETWEEN ELEVATIONS SPECIFIED ON PLANS.
8. REMOVE ALL PAINT AND OTHER DEBRIS FROM STEEL PRIOR TO FIELD WELDING TO STRUCTURE. FIELD WELDS AND ADJACENT AREAS SHALL BE FIELD PRIMED AFTER INSPECTED.

- 9. ALL SAFETY REGULATION AND PRECAUTIONS WITH REGARDS TO FIELD WELDING SHALL BE COMPLIED WITH TO PROTECT EXISTING CONSTRUCTION TO REMAIN, FINISHES, AND ON SITE WORKERS (SCREENS & BARRIERS).

- 10. WHERE FILLET WELD SIZES ARE NOT SPECIFICALLY NOTED, THE FABRICATOR SHALL DETAIL A MINIMUM SIZE FILLET WELD IN ACCORDANCE WITH AWS STANDARDS. THE ACTUAL SIZES SHALL BE SHOWN ON THE SHOP DRAWINGS.

- 11. BACKER BARS AT COMPLETE JOINT PENETRATION WELDS MUST BE REMOVED IF "R" IS GREATER THAN 3 OR IF STEEL IS "AESS".

- 12. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW BY ENGINEER. USE DOUBLE ANGLE SHEAR CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS WITH AT LEAST THE FOLLOWING NUMBER OF BOLT ROWS:
BEAM SIZE NUMBER OF BOLT ROWS
W8, W10 2
W12, W14, W16 3
W18, W21, W24 4

- 13. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT UNLESS INDICATED IN STRUCTURAL DRAWINGS.

- 14. BOLTED CONNECTIONS SHALL UTILIZE TYPE 3 ASTM A 325 BOLTS, UNO. ALL CONNECTIONS SHALL BE INSTALLED SNUG TIGHT.

- 15. REMOVE BURRS, DIRT, AND OTHER FOREIGN MATERIALS FROM FRAYING SURFACES AND SURFACES ADJACENT TO BOLT HEADS AND NUTS. BURRS LESS THAN OR EQUAL TO 1/16" IN HEIGHT ARE PERMITTED TO REMAIN ON FAYING SURFACES.

- 16. FABRICATE BOLTED CONNECTIONS WITH STANDARD SIZED HOLES, UNLESS NOTED OTHERWISE.

- 17. COMPLY WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTED CONNECTIONS.

SLAB ON DECK NOTES:

- 1. FLOOR DECKS SHALL BE 2" X 20 GAGE COMPOSITE GALVANIZED (G90) STEEL DECK. FLOOR DECK SHALL BE FASTENED TO STRUCTURAL STEEL WITH 5/8" DIAMETER PUDDLE WELDS. FASTENER PATTERN SHALL BE XXX WITH (X) #10 TEK SCREW SIDELAP FASTENERS PER SPAN. DECK SHALL BE WELDED TO ALL PERIMETER SUPPORT STEEL WITH 5/8 INCH DIAMETER PUDDLE WELDS AT A MAXIMUM SPACING OF 12 INCHES ON CENTER.
2. CONCRETE FLOOR DECKS SHALL BE NORMAL WEIGHT CONCRETE, UNLESS NOTED OTHERWISE. PROVIDE #4 AT 16 INCHES ON CENTER, EACH WAY UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL COORDINATE AND LOCATE ALL FLOOR OPENINGS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE SUPPORT FRAMING AROUND OPENINGS GREATER THAN 6 INCHES BY 6 INCHES AS SHOWN IN DETAIL XXXX.
4. DECK HAS BEEN DESIGNED TO BE UNSHORED DURING CONCRETE PLACEMENT. DO NOT OVERLOAD DECK DURING CONSTRUCTION.
5. INSTALL DECK IN ACCORDANCE WITH THE SDI MANUAL OF CONSTRUCTION W/STEEL DECK.
6. SHEAR STUDS SHALL BE MINIMUM OF 3/4 INCH DIAMETER UNIFORMLY SPACED ALONG BEAM LENGTH. DO NOT INSTALL STUDS AT DECK H-HAT LOCATIONS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE ALL NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
8. STEEL FLOOR STRUCTURE WILL DEFLECT UNDER WEIGHT OF WET CONCRETE. PLACE A VARYING THICKNESS CONCRETE SLAB TO MAINTAIN REQUIRED FINISHED FLOOR ELEVATION. COMPLETELY "ROUGH-FILL" EACH BAY WITH CONCRETE BEFORE SCREEDING.
9. DO NOT USE EXTERIOR BEAM SCREEDS TO LEVEL SLAB. EXTERIOR BEAM WILL DEFLECT UNDER WEIGHT OF THE CONCRETE.
10. SUBMIT SLAB POUR SEQUENCE AND PROPOSED CONSTRUCTION JOINT LAYOUT FOR REVIEW PRIOR TO SLAB PLACEMENT.

- METAL DECK NOTES:
1. COORDINATE NUMBER AND LOCATION OF ROOF DRAINS AND DECK OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. ROOF DECK SHALL BE 1 1/2" X 20ga GALVANIZED (G90) STEEL DECK. ROOF DECK SHALL BE FASTENED TO STRUCTURAL STEEL WITH 5/8" PUDDLE WELDS. FASTENER PATTERN SHALL BE 304 W/10 TEK SCREWS SIDELAP FASTENERS PER SPAN. SIDELAP FASTENERS SHALL HAVE A MAXIMUM SPACING OF 36". DECK SHALL BE WELDED TO ALL PERIMETER SUPPORT STEEL WITH 5/8" PUDDLE WELDS AT A MAXIMUM SPACING OF 12" C-C.
3. METAL ROOF DECKS MUST BE "WARPED" TO FOLLOW SLOPE OF ROOF PITCH INDICATED. ROOF DECK MAY REQUIRE ATTACHMENT WITH TEK SCREWS IN SOME LOCATIONS TO DRAW DECK TIGHT TO SUPPORTING STEEL MEMBERS PRIOR TO WELDING AS INDICATED ABOVE.
4. LAP ENDS OF DECK SHEETS A MINIMUM OF 2 INCHES. MINIMUM DECK BEARING SHALL BE 1 1/2".
5. PROVIDE ALL NECESSARY ACCESSORIES INCLUDING: RIDGE PLATES, VALLEY PLATES, CELL CLOSURES, FINISH STRIPS, BUTT STRIPS, AND SUMP PANS FOR A COMPLETE INSTALLATION.
6. INSTALL DECK IN ACCORDANCE WITH THE SDI MANUAL OF CONSTRUCTION WITH STEEL DECK.
7. CONSTRUCTION LOADS SHALL NOT EXCEED LOAD RATING OF DECK.

COLD-FORMED METAL FRAMING NOTES:

- 1. MINIMUM MEMBER MATERIAL THICKNESS IS 18 GAUGE UNLESS NOTED OTHERWISE.
2. CUT FRAMING COMPONENTS SQUARELY OR ON AN ANGLE AS REQUIRED TO FIT TIGHTLY WITH FULL BEARING AGAINST ABUTTING MEMBERS. TEMPORARILY BRACE MEMBERS AS REQUIRED PRIOR TO FINAL FASTENING.
3. FIELD CUTTING OF MEMBERS SHALL BE PERFORMED BY SHEARING OR SAWING. TORCH CUTTING IS NOT ACCEPTABLE.
4. SPLICES ARE NOT PERMITTED IN STUDS, JOISTS, OR OTHER LOAD-CARRYING MEMBERS UNLESS CALCULATIONS AND DETAILS HAVE BEEN SUBMITTED TO ENGINEER FOR REVIEW AND ACCEPTED.
5. WHEN COLD-FORMED STUDS ARE TO BE USED FOR TRUSS, RAFTER, OR HEADER APPLICATIONS, STUDS SHALL BE UN-PUNCHED THROUGH THE WEB. IT IS THE RESPONSIBILITY OF THE CONTRACTOR

- TO SPECIFY UN-PUNCHED STUDS WHEN ORDERING MATERIALS.
FIELD-INSTALLED HOLES ARE NOT PERMITTED IN MEMBERS UNLESS INDICATED IN DRAWINGS.

- DO NOT SCREW OR WELD STUDS TO VERTICAL DEFLECTION TRACKS. DO NOT CONNECT SHEATHING TO VERTICAL DEFLECTION TRACKS. PROVIDE GAP IN SHEATHING TO ACCOMMODATE VERTICAL DEFLECTION.

- ABUTTING TRACK MEMBERS SHALL BE SPLICED TOGETHER USING A TYPICAL STUD/JOIST SCREWED TO THE TRACK ON BOTH SIDES OF JOINT. BUTT-WELDING IS ALSO ACCEPTABLE.

- FOR LOAD BEARING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ADEQUATE BRACING IS IN PLACE UNTIL SHEATHING IS ATTACHED TO BOTH STUD FLANGES. DO NOT OVERLOAD STUDS DURING CONSTRUCTION.

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION BRACING.
MINIMUM SCREW SPACING AND EDGE DISTANCE IS 3/4 INCH UNLESS NOTED OTHERWISE.

- THE FOLLOWING SHALL BE USED FOR POWDER-ACTUATED FASTENERS IN STEEL UNLESS NOTED OTHERWISE:
MINIMUM EDGE DISTANCE = 1/2 INCH
MINIMUM FASTENER SPACING = 1 INCH

- THE FOLLOWING SHALL BE USED FOR POWDER-ACTUATED FASTENERS IN CONCRETE UNLESS NOTED OTHERWISE:
MINIMUM EDGE DISTANCE = 3 INCHES
MINIMUM FASTENER SPACING = 4 INCHES

- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".

- MINIMUM WELD THROAT THICKNESS EQUALS THE BASE METAL THICKNESS OF THE THINNEST CONNECTED MATERIAL UNLESS NOTED OTHERWISE.

- TOUCH-UP WELDS WITH GALVANIZED REPAIR PAINT.

SHEET LIST

Table with 2 columns: SHEET NUMBER, SHEET NAME. Rows include S0.01 (DESIGN DATA AND GENERAL NOTES), S1.00 (SPECIAL INSPECTION NOTES AND SCHEDULE), S3.00 (FOUNDATION AND FRAMING PLANS), S5.00 (SECTIONS AND DETAILS), S6.00 (CFMF SECTIONS AND DETAILS).

CONCRETE COVER SCHEDULE

Table with 2 columns: LOCATION, COVER. Rows include CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND (3"), CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND (#6 BARS AND LARGER: 2", #5 BARS AND SMALLER: 1 1/2"), CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND (3/4" BEAMS, GIRDERS, COLUMNS, AND PIERS: 1 1/2").

CLASS B TENSION LAP SPLICE SCHEDULE

Table with 4 columns: BAR SIZE, TOP BAR, OTHER BAR, BAR SIZE. Sub-headers for f'c = 3,000 PSI and f'c = 4,000 PSI. Rows include #3, #4, #5, #6, #7, #8, #9 for both cases.

- 1. TABULATED VALUES ARE IN INCHES.
2. TOP BARS ARE HORIZONTAL BARS PLACED WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT LENGTH OR SPLICE.
3. CASE 1 APPLIES TO CLEAR SPACING GREATER THAN OR EQUAL TO 2 BAR DIAMETERS AND COVER GREATER THAN OR EQUAL TO 1 DIAMETER.
4. CASE 2 APPLIES TO CLEAR SPACING LESS THAN 2 BAR DIAMETERS AND COVER LESS THAN 1 DIAMETER.
5. FOR VALUES OF COVER AND SPACING BETWEEN TABULATED VALUES USE THE LONGER LAP LENGTH. DO NOT INTERPOLATE.
6. CALCULATE CENTER TO CENTER SPACING OF BARS AT LAP SPLICE LOCATIONS.
7. FOR EPOXY COATED BARS INCREASE THE TABULATED VALUES AS FOLLOWS, TOP BARS MULTIPLY TABULATED VALUE BY 1.3, FOR OTHER BARS MULTIPLY TABULATED VALUE BY 1.5.
8. FOR LIGHTWEIGHT CONCRETE MULTIPLY TABULATED VALUE BY 1.3.

CONCRETE MIX

Table with 6 columns: APPLICATION, EXPOSURE, Fc, MAXIMUM W/C RATIO, AIR CONTENT, NOMINAL MAX. AGGREGATE SIZE (NOTE 4). Rows include FOOTINGS, EXT SLAB ON GRADE, SLAB ON GRADE, FOUNDATION WALLS, SITE WALLS, SLAB ON DECK, PIERS.

- NOTES:
1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE.
2. WHERE NO MAXIMUM WATER TO CEMENT RATIO IS NOTED, PROPORTION WATER TO CEMENT RATIO FOR SPECIFIED CONCRETE MIX DESIGN STRENGTH.
3. DO NOT AIR ENTRAIN INTERIOR SLABS ON GRADE OR SLABS ON METAL DECK. AIR ENTRAINMENT IS NOT PERMITTED FOR CONCRETE TO RECEIVE HARD TROWEL FINISH AND ENTRAPPED AIR SHALL NOT EXCEED 2%. SLABS SHALL BE FINISHED TO AVOID SURFACE IMPERFECTIONS, INCLUDING BLISTERING AND DELAMINATION.
4. COARSE AGGREGATE SHALL BE ASTM C33 MEETING GRADATION REQUIREMENTS TYPE 57 FOR 1-INCH MAXIMUM AGGREGATE SIZE AND TYPE 67 FOR 3/4-INCH MAXIMUM AGGREGATE SIZE.
5. MAXIMUM CONCRETE UNIT WEIGHT NOT TO EXCEED 150 POUNDS PER CUBIC FEET.

ABBREVIATIONS

Table with 4 columns: ADDL, APPROX, ARCH, AESS, B/, BO, BLDG, BLKG, BP, BRG, BTWN, CANT, CIP, CJ, CL, CLR, CMU, COL, CONC, CONT, CFMF, COORD, DET, DIA, DIM, DN, DO, DWLS, DWG, EA, EF, ES, EL, ELEV, EOS, EOD, EQUIP, EW, EXIST, EXT, EIFS, EXP. Rows list various abbreviations and their meanings.

Table with 3 columns: REV, DATE, ITEM. Empty rows for revision tracking.

NOTICE
THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PROVIDED BY THE ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS "SUGGESTIVE INFORMATION AS THEY HAVE NOT ALWAYS BEEN BUILT AND DETAIL PER THE ORIGINAL DOCUMENTS OR PER THE CONTRACT INFORMATION."



PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1 - BOND IMPROVEMENTS BEDFORD HILLS ELEMENTARY SCHOOL 1125 BABBITT RD, BEDFORD HILLS, NY 10507
DWS TITLE: DESIGN DATA AND GENERAL NOTES

DRAWING BY: AED
CHECK BY: AED
NOTICE
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SED No: 66-01-02-06-0-004-020
DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT: PHASE 1 - BOND IMPROVEMENTS
DWS TITLE: DESIGN DATA AND GENERAL NOTES
SCALE: AS NOTED
DATE: 10/19/22
BID PICK-UP:
FILE No: 22-225E

S0.01 of BHS

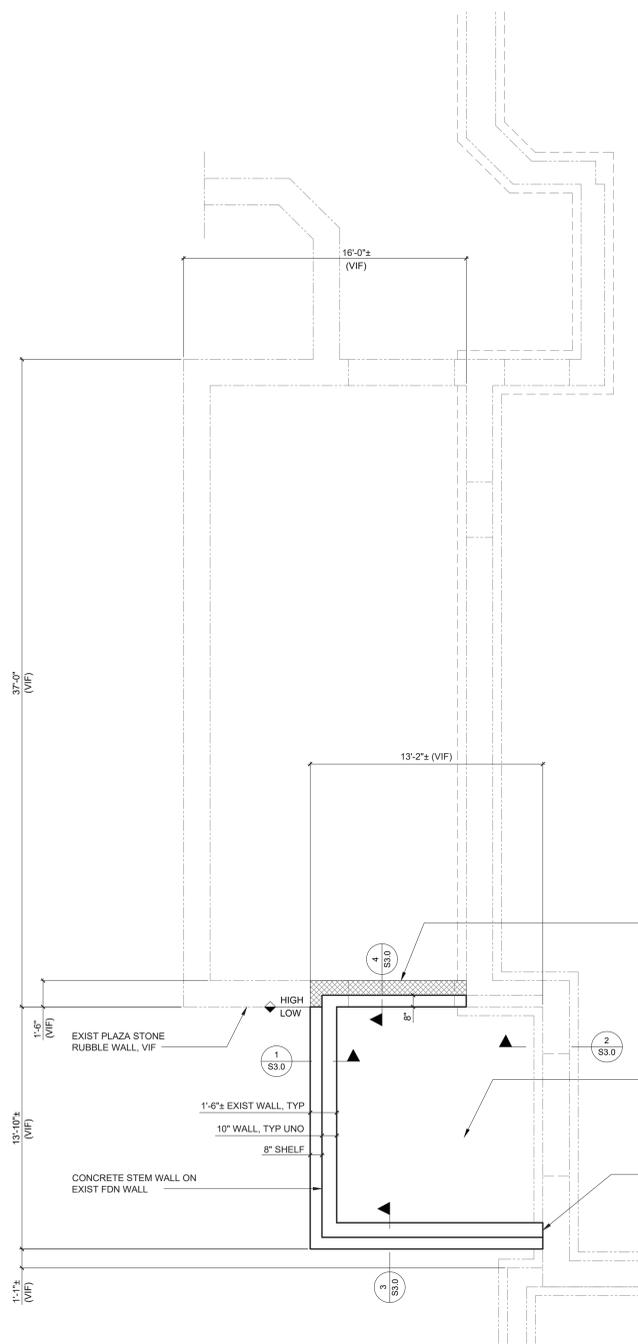
REV.	DATE	ITEM

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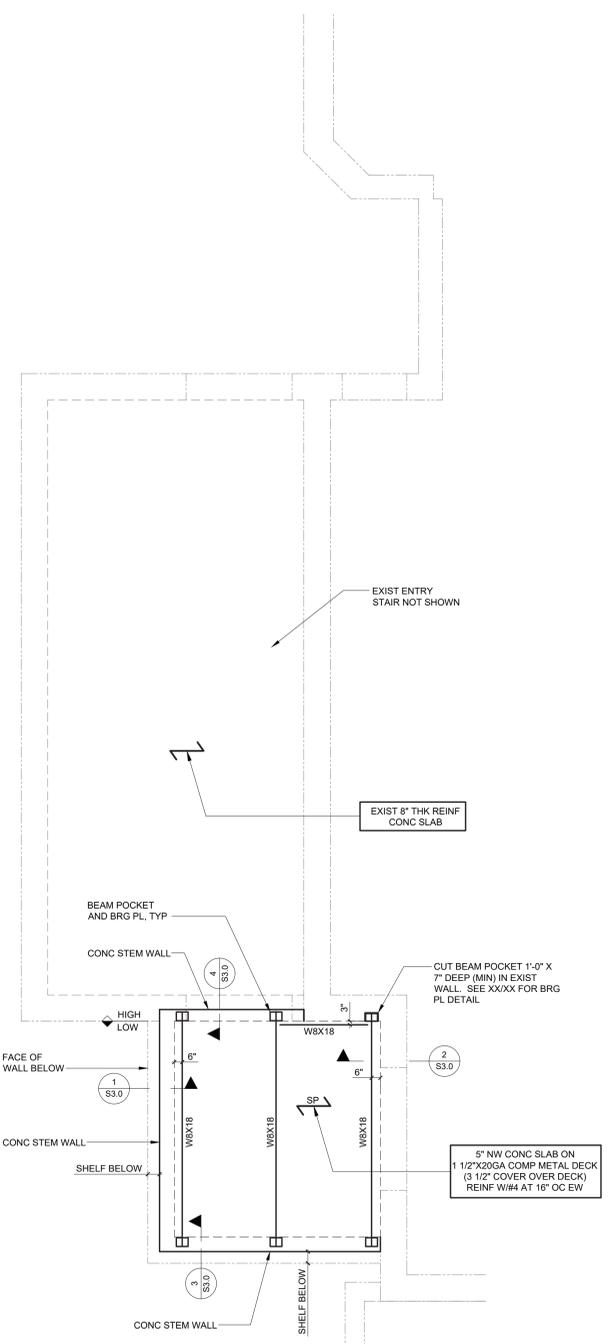
FOUNDATION PLAN LEGEND

- F#** INDICATES FOOTING TYPE OR DESIGNATION. SEE FOOTING SCHEDULE. THIS DRAWING FOR SIZE AND REINFORCING. SEE DETAILS ON DRAWINGS S301 AND S302 FOR ADDITIONAL INFORMATION.
- HIGH LOW** INDICATES STEPPED FOOTING LOCATION AND ASSOCIATED T/FOOTING ELEVATIONS. SEE DETAIL 11/S301 FOR ADDITIONAL INFORMATION.
- HIGH LOW** INDICATES WALL STEP LOCATION AND ASSOCIATED ELEVATIONS. COORDINATE LOCATIONS OF WALL STEPS WITH ARCHITECTURAL DRAWINGS AND WITH MASONRY SHELF STEP LOCATIONS AND ELEVATIONS.
- [Hatched Box]** INDICATES LOCATION OF RECESSED FOUNDATION WALL FOR SLAB OVERPOUR. T/WALL AT RECESS IS 8" BELOW T/SLAB SPECIFIED, UNLESS NOTED OTHERWISE. SEE DETAIL 9/S301 FOR ADDITIONAL INFORMATION.
- [Solid Box]** INDICATES LOCATION OF RECESSED MASONRY SHELF OR EXISTING RUBBLE WALL REMOVAL.
- SCJ** INDICATES SLAB CONTROL OR CONTRACTION JOINT LOCATION. VERIFY AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS. SEE TYPICAL DETAILS ON DRAWING S300 FOR MORE INFORMATION.
- WCJ** INDICATES FOUNDATION WALL CONTROL OR CONSTRUCTION JOINT LOCATION. VERIFY AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND MASONRY WALL CONTROL JOINT LOCATIONS. SEE 12/S300 & 13/S300 FOR MORE INFORMATION.



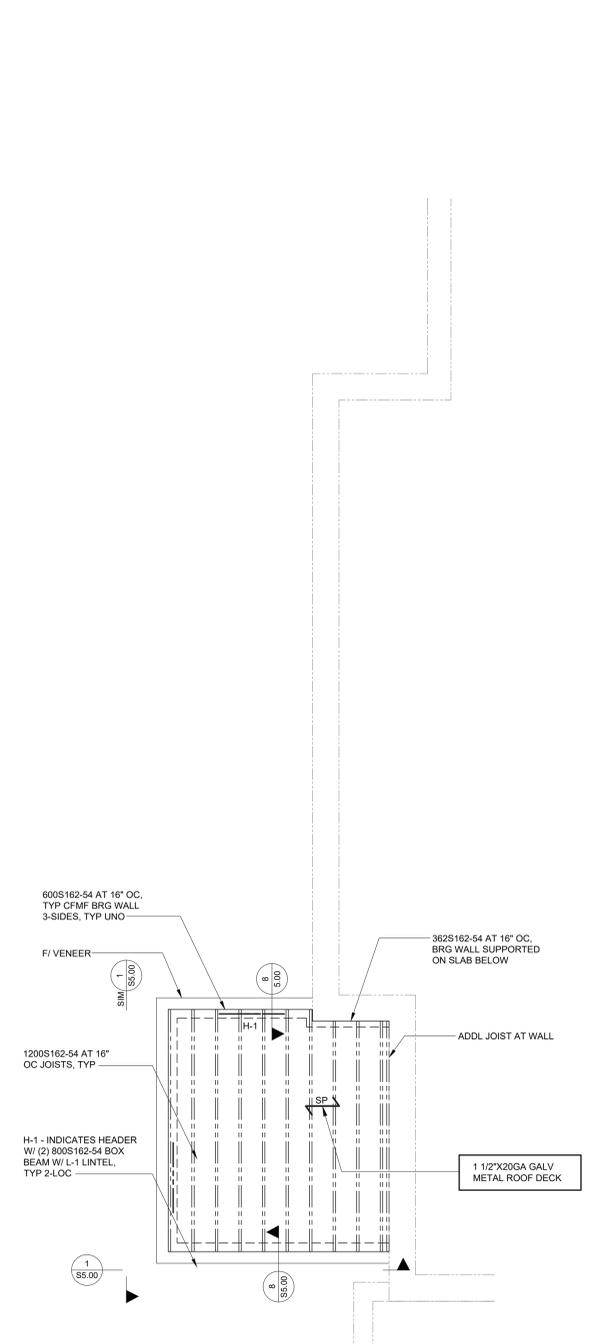
FOUNDATION PLAN
 1/8" = 1'-0"

- NOTES:**
1. EXISTING FINISHED FIRST FLOOR ELEVATION () EQUALS REFERENCE ELEVATION (0'-0").
 2. ELEVATIONS NOTED THUS (X'-XX"±) ARE WITH RESPECT TO (0'-0").
 3. T/WALL ELEVATION (0'-5"), TYPICAL.
 4. WCJ - INDICATES WALL CONTROL OR CONSTRUCTION JOINT LOCATION. ALIGN WITH MASONRY WALL CONTROL JOINTS. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 5. SEE S30.00 FOR WALL REINFORCING AT CORNERS AND INTERSECTIONS.
 6. DRILL AND GROUT WALL AND FOOTING REINFORCING 6" INTO EXISTING FOUNDATIONS (TYPICAL, UNLESS NOTED OTHERWISE, FOR ALL LOCATIONS WHERE FOUNDATION WALLS INTERFACE WITH EXISTING WALLS).
 7. SEE S0.01 FOR ADDITIONAL NOTES.



FLOOR FRAMING PLAN
 1/8" = 1'-0"

- NOTES:**
1. T/STEEL (B/DECK) ELEVATION (-0'-5") ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE.
 2. ELEVATIONS NOTED () ARE TO T/STEEL (B/DECK) WITH RESPECT TO ELEVATION (+).
 3. EQUALLY SPACE FLOOR BEAMS BETWEEN COLUMNS UNLESS NOTED OTHERWISE.
 4. BRGP# - INDICATES BEARING PLATE. SEE S5.00 FOR DETAILS.
 5. SEE S3.00 FOR LINTEL SCHEDULE AND NOTES. NOT ALL LINTELS IN WALLS ARE SHOWN.
 6. SEE S0.01 FOR ADDITIONAL NOTES.



ROOF FRAMING PLAN
 1/8" = 1'-0"

- NOTES:**
1. T/STEEL (B/DECK) ELEVATION (+) ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE.
 2. EOD INDICATES EDGE OF DECK.
 3. SEE S0.01 FOR ADDITIONAL NOTES.

PROJECT
 BEDFORD CENTRAL SCHOOL DISTRICT
 PHASE 1 - BOND IMPROVEMENTS
 BEDFORD HILLS ELEMENTARY SCHOOL
 123 BABBITT RD, BEDFORD HILLS, NY 10507

DWS TITLE
 FOUNDATION AND FRAMING PLANS

DRAWING BY: AED
CHECK BY: AED

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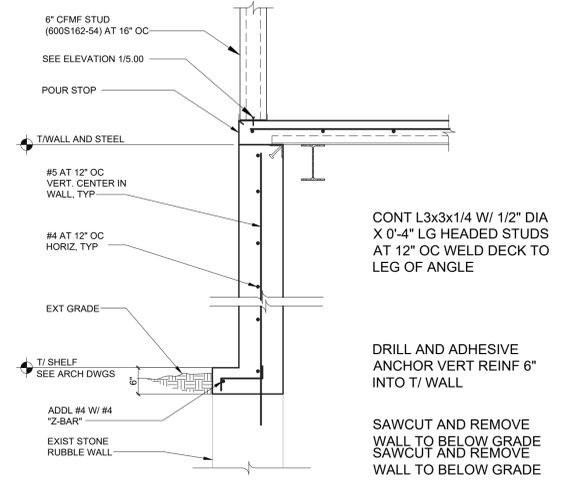
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DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT: PHASE 1 - BOND IMPROVEMENTS
DWS TITLE: FOUNDATION AND FRAMING PLANS
SCALE: AS NOTED
DATE: 10/19/22
BID PICK-UP: -
FILE No.: 22-225E

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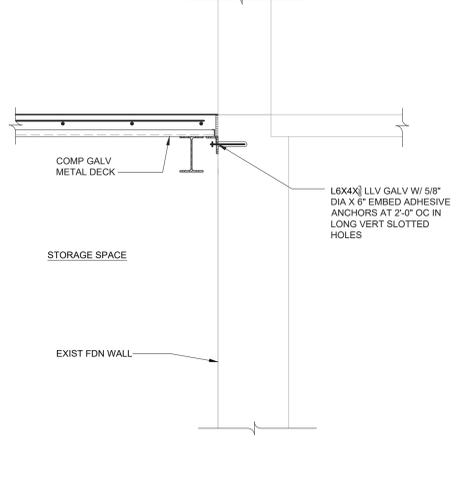
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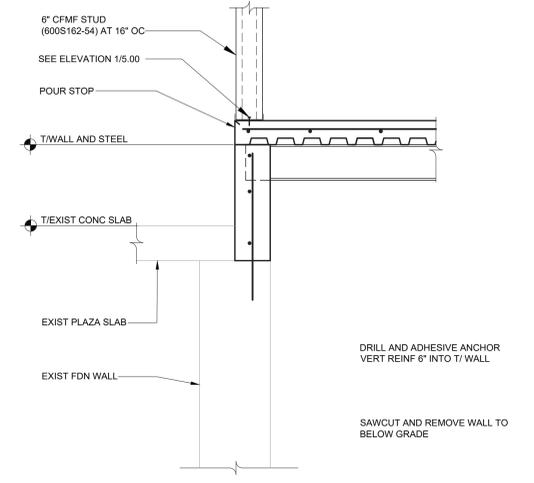
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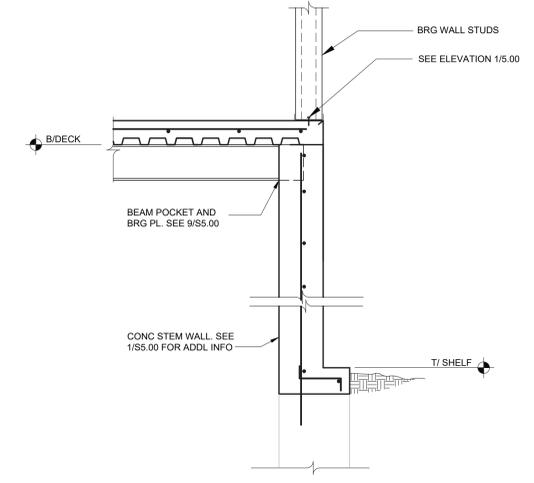
1 SECTION AT SLAB EDGE
 S3.00 SCALE: 3/4" = 1'-0"



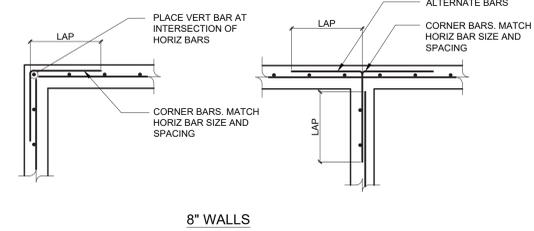
2 SECTION AT EXISTING BUILDING WALL
 S3.00 SCALE: 3/4" = 1'-0"



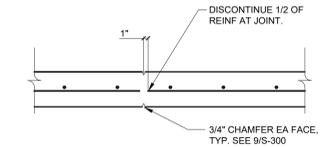
3 SECTION AT EXISTING PLAZA DECK
 S3.00 SCALE: 3/4" = 1'-0"



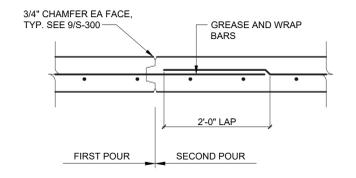
5 SECTION AT EXISTING CONC WALL
 S3.00 SCALE: 3/4" = 1'-0"



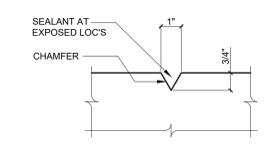
5 TYPICAL WALL INTERSECTION REINFORCEMENT
 S3.00 SCALE: 1/2" = 1'-0"



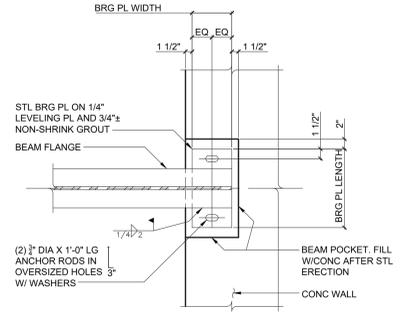
6 WALL CONTROL JOINT
 S3.00 SCALE: 3/4" = 1'-0"



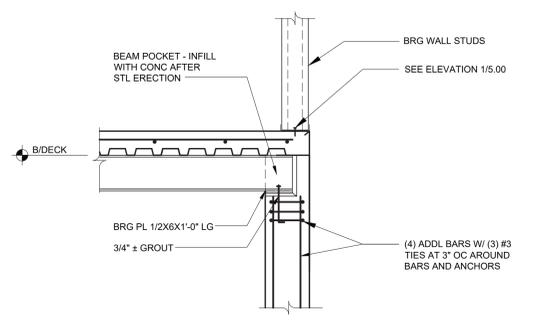
7 WALL CONSTRUCTION JOINT
 S3.00 SCALE: 3/4" = 1'-0"



8 WALL JOINT DETAIL
 S3.00 SCALE: 3/4" = 1'-0"



9 PLAN DETAIL AT BEAM POCKET
 S3.00 SCALE: 3/4" = 1'-0"



10 SECTION AT BEAM POCKET
 S3.00 SCALE: 3/4" = 1'-0"

PROJECT
 BEDFORD CENTRAL SCHOOL DISTRICT
 PHASE 1 - BOND IMPROVEMENTS
 BEDFORD HILLS ELEMENTARY SCHOOL
 123 BABBITT RD, BEDFORD HILLS, NY 10507

DWG TITLE
 SECTIONS AND DETAILS

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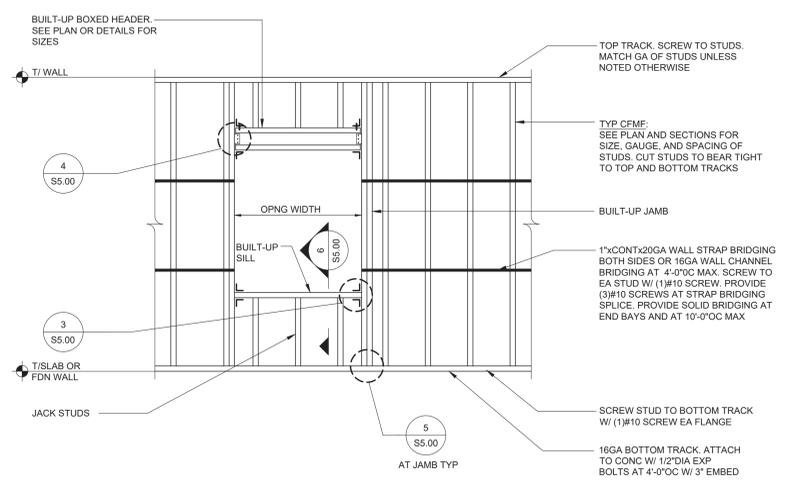
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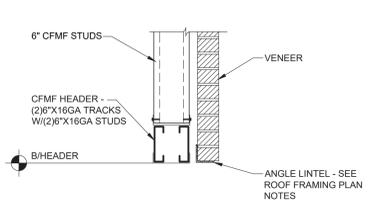
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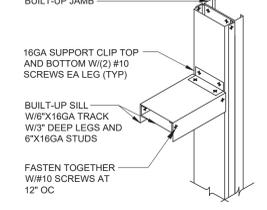


1 COLD-FORMED METAL FRAMING BEARING WALL FRAMING ELEVATION
 SCALE: 3/4" = 1'-0"
 S5.00

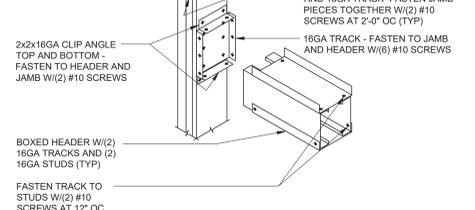
NOTES:
 1. SEE ARCHITECTURAL DRAWINGS FOR OPENINGS SIZES AND LOCATIONS.
 2. SEE SCHEDULE FOR HEADER AND JAMB SIZES.



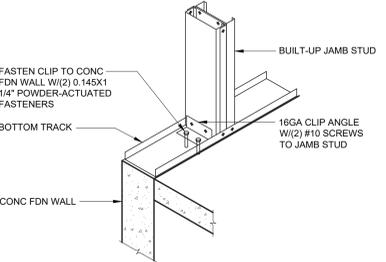
2 SECTION AT CFMF HEADER
 SCALE: 1" = 1'-0"
 S5.00



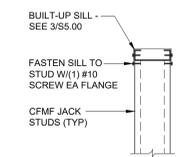
3 SILL TO JAMB CONNECTION
 SCALE: 1" = 1'-0"
 S5.00



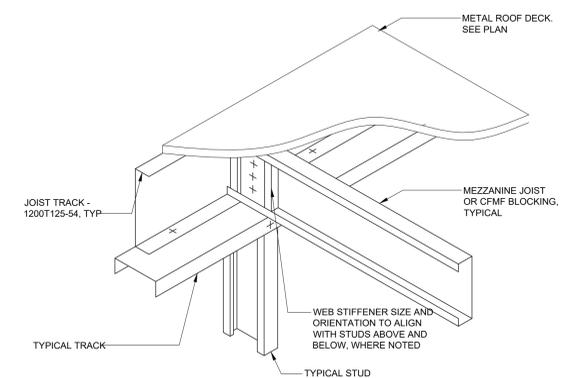
4 HEADER TO JAMB CONNECTION
 SCALE: 1" = 1'-0"
 S5.00



5 JAMB CONNECTION DETAIL
 SCALE: 1" = 1'-0"
 S5.00

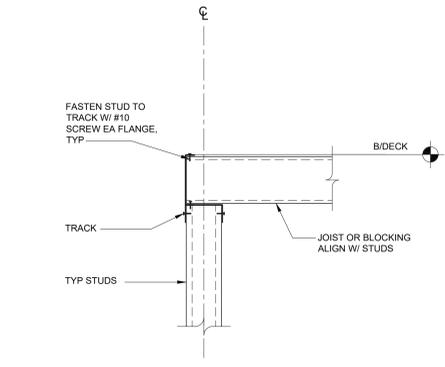


6 SILL SECTION
 SCALE: 1" = 1'-0"
 S5.00



7 TYPICAL SECTION AT BEARING WALL
 NOT TO SCALE
 S5.00

NOTES:
 1. ALIGN WEBS OF STUDS AND JOIST MEMBERS.
 2. ATTACH DECK TO JOIST AT 12" O.C. IN FIELD OF ROOF AND 6" O.C. AT PERIMETER.



8 SECTION AT JOIST BEARING
 SCALE: 1" = 1'-0"
 S5.00

PROJECT
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SCALE: AS NOTED
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BID PICK UP: -
FILE No. 22-225E

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GENERAL NOTES	
1.	REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
2.	PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED. COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC.. THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT, MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
3.	INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
4.	INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
5.	COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL PRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
6.	IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS CONTRACT.
7.	THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
8.	CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
9.	DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
10.	PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
11.	THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS CONTRACTOR.
12.	CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
13.	PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
14.	THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M.C.), MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
15.	SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER, DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
16.	EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH, WHITE CORE, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT, UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
17.	"ATTIC STOCK" - UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT. MEANS OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
18.	MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE PROJECT.
19.	MAINTENANCE MANUAL. UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PIECE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATE REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHALL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PIECE OF EQUIPMENT USED.

BOILER ROOM AND PIPING NOTES	
1.	THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING & EQUIPMENT, & INDICATE THE REQUIRED SIZE / POINTS OF TERMINATION OF THE PIPING & SUGGEST PROPER ROUTING OF SAME. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, RISERS, DROPS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM & KEEP OPENINGS / PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
2.	ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT SHALL BE INSTALLED ON A LEVEL, REINFORCED CONCRETE HOUSEKEEPING PAD, 4" THICK MIN. UNLESS OTHERWISE NOTED. ALL HOUSEKEEPING PADS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PADS SHALL BE REINFORCED W/ WELDED WIRE MESH & SHALL BE POURED USING 3,000 PSI CONCRETE.
3.	MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED STRUCTURAL SUPPORTS FOR ALL PIPING SYSTEMS & EQUIPMENT AS REQUIRED. PIPING SYSTEMS SHALL BE EQUIPPED WITH EXPANSION COMPENSATORS AT THE INTERVALS REQUIRED. PROVIDE PIPING GUIDES / ANCHORS AS REQUIRED.
4.	MECHANICAL CONTRACTOR SHALL PROPERLY INSULATE ALL NEW PIPING SYSTEMS & EQUIPMENT. REFER TO SPECIFICATION SECTION 15509 FOR FURTHER DETAILS REGARDING INSULATION REQUIREMENTS. UPON COMPLETION OF INSULATION WORK, MECHANICAL CONTRACTOR SHALL PROPERLY LABEL EACH PIPING RUN SHOWING THE TYPE OF FLUID CARRIED & DIRECTION OF FLOW. PIPE IDENTIFICATION MARKERS SHALL BE INSTALLED EVERY 20 FEET IN THE PIPING RUNS.
5.	ALL VALVES WITHIN PIPING SYSTEMS SHALL BE TAGGED USING A 1-1/2" DIA. BRASS TAG. PROVIDE A LEGEND LISTING VALVE #, TYPE OF VALVE, SERVICE TYPE, & LOCATION OF VALVE. KEY VALVE #S TO AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
6.	MECHANICAL CONTRACTOR SHALL SUBMIT (3) SETS OF OPERATING MANUALS FOR EACH PIECE / TYPE OF MECHANICAL EQUIPMENT.
7.	MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL WIRING & DEVICES AS REQUIRED TO CONTROL THE BOILER ROOM EQUIPMENT AS DESCRIBED IN THE SEQUENCE OF OPERATIONS LISTED IN THE PROJECT MANUAL. REFER TO SPECIFICATION SECTION 15903 FOR FURTHER DETAILS.

FIRESTOPPING NOTES	
1.	ALL PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL WALLS IN THE CONSTRUCTION CARRY A MINIMUM FIRE RATING OF 1 HR. IT SHOULD BE ASSURED THAT ALL MACHINE ROOM WALLS / BOILER ROOM WALLS / ELECTRIC ROOM WALLS CARRY A RATING OF 2 HR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE REVIEW OF THE ARCHITECTURAL DRAWINGS IN ORDER TO DETERMINE FIRE RATINGS OF ALL WALLS / PARTITIONS RELATED TO WORK UNDER THIS CONTRACT.
2.	MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR. COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
3.	MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR. COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
4.	MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
5.	CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
6.	CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED. FIRESTOP MATERIALS OTHER THAN THE PRODUCTS SPECIFIED SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES	
1.	AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS: <ul style="list-style-type: none"> • AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED). • AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER. • AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
2.	AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS: <ul style="list-style-type: none"> • AT SUCTION & DISCHARGE OF EACH PUMP. • FOR EACH MAKEUP WATER LINE. • BEFORE & AFTER ALL PRESSURE REDUCING VALVES. • AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS. • AT ALL EXPANSION / COMPRESSION TANKS.

EQUIPMENT VENTING NOTES	
1.	MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" #HY-VENT OR EQUIVALENT.
2.	MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
3.	MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONNECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #M17 COIL VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIR COIL VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT	
1.	MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTER / DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
2.	POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ALL ELECTRICAL WORK.

DUCTWORK NOTES	
1.	PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
2.	IF A DUCT ELBOW IS SHOWN TO BE RADIUS'D, THEN RADIUS'D ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUS'D ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
3.	PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNITS). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15299 FOR FURTHER INFORMATION.
4.	WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 191, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
5.	MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
6.	MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

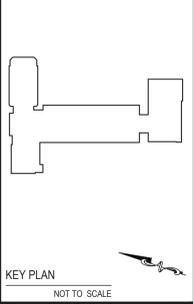
TESTING and BALANCING NOTES	
1.	MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15900 & 15907 FOR FURTHER DETAILS.
2.	UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
3.	IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE RE-TESTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
B.D.	BACKDRAFT DAMPER
CWS	COLD WATER SUPPLY
CFM	CUBIC FEET OF AIR PER MINUTE
D.	DEEP / DEPTH
DIA.	DIAMETER
F&T	FLOAT & THERMOSTATIC
FPM	FEET PER MINUTE
FSD	FIRE DAMPER - DUCT MOUNTED
FLEX	FLEXIBLE
FO	FLAT OVAL DUCTWORK
GAL	GALLONS
GPM	GALLONS PER HOUR
GPW	GALLONS PER MINUTE
H	HIGH
H.C.	HANDICAPPED
HWS	HEATING SYSTEM HOT WATER SUPPLY
HWR	HEATING SYSTEM HOT WATER RETURN
HP	HORSEPOWER
I.D.	INSIDE DIAMETER
KW	KILOWATT
L	LONG
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MIN.	MINIMUM
MBH	BTU x 1,000
MFR.	MANUFACTURER
M.H.	MAN-HOLE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
G	NATURAL GAS
N.I.C.	NOT IN CONTRACT
No. / #.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.S. & Y.	OUTSIDE SCREW & YOKE
O.C.	ON CENTER
PE	PNEUMATIC / ELECTRIC
PREFAB	PREFABRICATED
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R.A.	RETURN AIR
REQD.	REQUIRED
RRM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SCH.	SCHEDULE
S.P.	STATIC PRESSURE
STD.	STANDARD
T	TEMPERATURE
TXV	THERMAL EXPANSION VALVE
TYP.	TYPICAL
VOL.	VOLUME
V.D.	VOLUME DAMPER
VOL.	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W.	WIDE
WB	WET BULB TEMPERATURE
WTD	WATER TEMPERATURE DROP
WTR	WATER TEMPERATURE RISE
WPD	WATER PRESSURE DROP

MECHANICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS 'W' x 'H'
	NEW SUPPLY DUCTWORK TO RISE UP
	NEW SUPPLY DUCTWORK TO DROP DOWN
	NEW RETURN DUCTWORK TO RISE UP
	NEW RETURN DUCTWORK TO DROP DOWN
	TRANSITION IN DUCTWORK
	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
	ROUND DUCTWORK TO RISE UP
	ROUND DUCTWORK TO DROP DOWN
	FLAT OVAL DUCT WORK
	RECTANGULAR TO ROUND DUCT TRANSITION
	ELBOW IN DUCTWORK w/ TURNING VANES
	ELBOW IN DUCTWORK (RADIUS = 1.5 x D)
	45 DEG. TAKEOFF FITTING
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING
	FLEXIBLE DUCTWORK TO DIFFUSER (4 FT. MAX. RUN)
	4-WAY PATTERN CEILING DIFFUSER
	3-WAY PATTERN CEILING DIFFUSER
	2-WAY PATTERN CEILING DIFFUSER (90 DEG. / OPPOSING PATTERN)
	CEILING RETURN AIR REGISTER
	LINEAR SLOT DIFFUSER
	ROOF MOUNTED EXHAUST FAN

PIPING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PIPING TO RISE UP
	PIPING TO DROP DOWN
	PIPING ANCHOR
	PIPING GUIDE
	COLD WATER SUPPLY PIPING
	HEATING SYSTEM SUPPLY PIPING
	HEATING SYSTEM RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
	CONDENSATE DRAINAGE PIPING
	FUEL OIL SUPPLY PIPING
	FUEL OIL RETURN PIPING
	LOW PRESSURE NATURAL GAS PIPING
	ELEVATED PRESSURE NATURAL GAS PIPING
	GAS COOK
	DIRT LEG IN PIPING
	LIQUEFIED PETROLEUM GAS PIPING
	VENT PIPING
	LINEAR EXPANSION COMPENSATOR
	EXPANSION LOOP IN PIPING
	UNION IN PIPING
	PIPING STRAINER (w/ BLOWDOWN VALVE)
	REDUCER / INCREASER FITTINGS IN PIPING
	ECCENTRIC REDUCER IN PIPING
	THERMOMETER
	PRESSURE GAUGE
	FULL PORT BALL VALVE
	GATE VALVE
	SWING CHECK VALVE
	BALANCING VALVE
	3-WAY VALVE (w/ OPERATOR)
	CIRCUIT CETER
	TRIPLE DUTY VALVE
	WAFAER VALVE
	PLUG / CAP IN PIPING
	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
	AUTOMATIC AIR VENT
	EXISTING PIPING

REV.	DATE	ITEM



BEDFORD CENTRAL SCHOOL DISTRICT
 PHASE 1 BOND IMPROVEMENTS
 BEDFORD HILLS ELEMENTARY SCHOOL
 TOWN OF BEDFORD / WESTCHESTER COUNTY
 PROJECT
 DWS TITLE
 DRAWING BY: GWT
 CHECK BY: CW

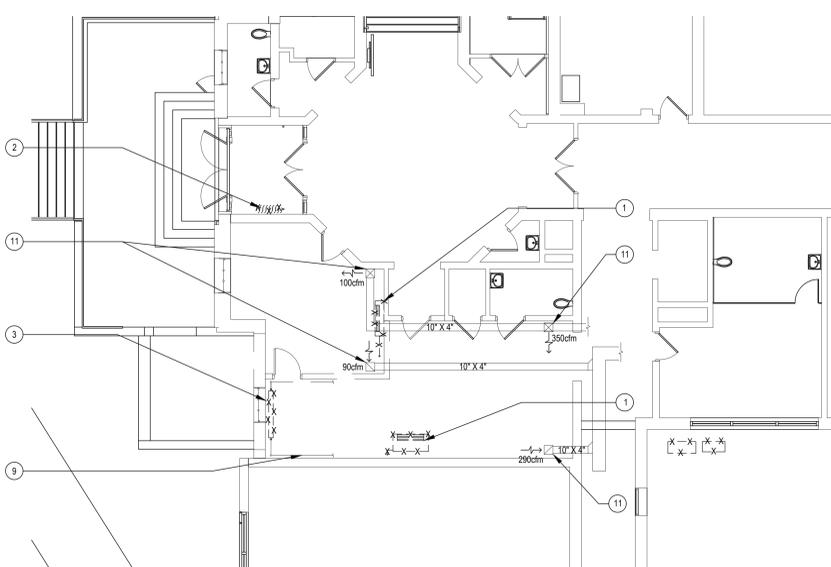
BBS

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LANDSCAPE ARCHITECTS
ENGINEERS

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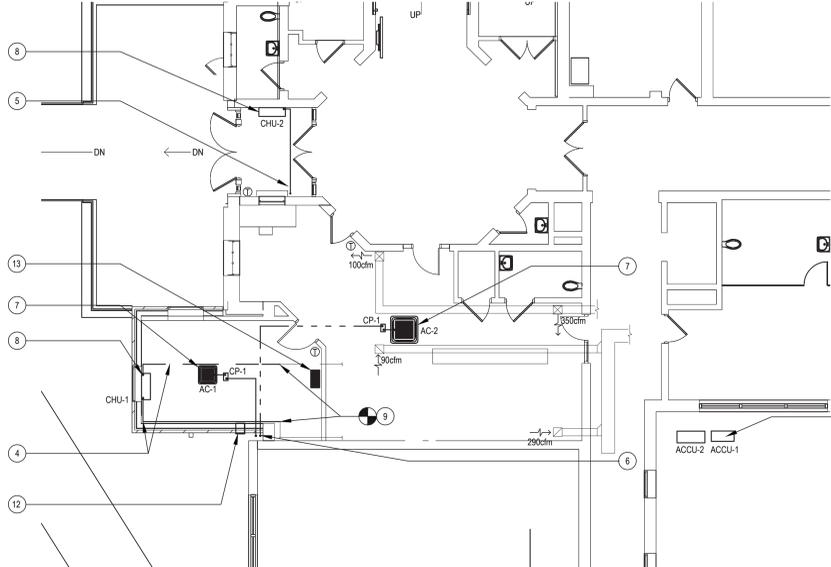
SED No.	66-01-02-06-0-004-020
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 1 BOND IMPROVEMENTS
DWS TITLE	GENERAL NOTES
SCALE	AS NOTED
DATE	NOVEMBER 1, 2022
BID PICK-UP	
FILE No.	22-225E

M0.01



VESTIBULE AND OFFICE DEMO PLAN

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



SECURITY VESTIBULE AND PRINCIPALS OFFICE ADDITION NEW PLAN

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

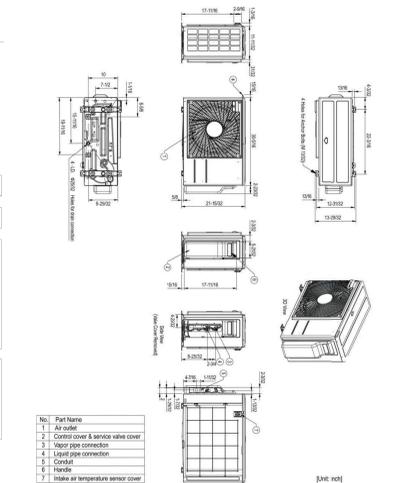
- 1 EXISTING A/C UNIT, VRF PIPING, CONDENSATE PIPING AND ASSOCIATING CONDENSER UNIT TO BE REMOVED
 - 2 EXISTING STEAM RADIATOR TO BE REMOVED AND PIPING CUT BACK AND CAPPED IN FLOOR
 - 3 EXISTING HW FUTURE TO BE REMOVED AND PIPING CUT BACK AND CAPPED IN FLOOR
 - 4 GC TO OPEN FLOOR AS NECESSARY, MC TO CONNECT EXISTING 1" HOT WATER SUPPLY AND RETURN TO NEW CABINET UNIT HEATER. GC TO CUT HOLE FOR OUTDOOR AIR LOUVER, MC TO BALANCE UNIT TO 32 CFM
 - 5 GC TO TRENCH FLOOR AS NECESSARY, MC TO CONNECT EXISTING STEAM SUPPLY AND CONDENSATE RETURN TO NEW FAN COIL UNIT
 - 6 GC TO PROVIDE PENETRATION FOR NEW CONDENSATE LINE, MC TO PIPE 1" CONDENSATE THRU WALL
 - 7 NEW CEILING CASSETTE BY MC
 - 8 NEW CABINET UNIT HEATER BY MC
 - 9 EXISTING 1" HW/HVWR TO REMAIN
 - 10 REUSE EXISTING CONCRETE PAD FOR INSTALLATION
 - 11 EXISTING GRILLE AND DUCTWORK TO REMAIN
 - 12 NEW 12 IN. W X 4 3/4 IN. H BRICK VENT LOUVER GREENHECK MODEL BIVE TO ALLOW 50CFM OF RELIEF AIR
 - 13 NEW ANEMOSTAT LAY-IN T-BAR SIZE 24" X 12" EGG-CRATE GRILLE, MODEL GCS.
- CONNECTION BETWEEN NEW AND EXISTING

REV.	DATE	ITEM

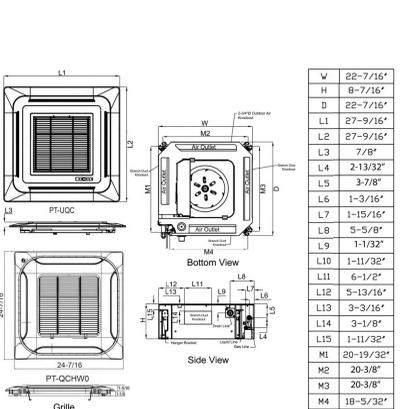
NOTICE
THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS. LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY HAVE NOT BEEN BUILT AND DETAIL FOR THE ORIGINAL DOCUMENTS OR PER THE OWNERS INFORMATION.

KEY PLAN
NOT TO SCALE

LC098HV4
Ceiling Cassette Single Zone
Outdoor Unit (ODU) - LU097HV Indoor Unit (IDU) - LC098HV4
Tag #: ACCU-1
Date: PD No.:



LC098HV4
Ceiling Cassette Single Zone
Outdoor Unit (ODU) - LU097HV Indoor Unit (IDU) - LC098HV4
Tag #: AC-1
Date: PD No.:



ACCU/AC-Principal's Office

LC098HV4
Ceiling Cassette Single Zone
Outdoor Unit (ODU) - LU097HV Indoor Unit (IDU) - LC098HV4
Tag #: ACCU-1
Date: PD No.:

Performance:
Cooling (Min Rated Max, Btu/h) 5,600 - 9,000 - 9,900
SEER 20.2
EER 13.65
Sensible Heat Ratio (SHR) 0.75
Sensible Heat Ratio (SHR) 0.75
Sensible Heat Ratio (SHR) 0.75

Heating:
Heating (Min Rated Max, Btu/h) 4,400 - 11,000 - 12,100
HSPF 10.5

Electrical:
Power Supply (V/Hz) 208-230/60/1
MOP (A) 35
MCA (A) 11.9
Cooling Rated Amps (A) 9.6
Heating Rated Amps (A) 9.6
Compressor (A) 9.0
Fan (MOP/Hz) (A) 6.65
Cooling Power Input (kW) 0.66
Heating Power Input (kW) 0.66

Piping:
Liquid (in. OD, Connection Size/Pipe Size) 1/4" / 1/4"
Vapor (in. OD, Connection Size/Pipe Size) 3/8" / 3/8"
Additional Refrigerant (oz/Lb) 0.22
Max Pipe Length (ft) 66
Pipe Length (no add'l Refrigerant, R) Max 25
Elevation (ft) 49

Features:
• Inverter Variable speed compressor
• Auto restart
• Microprocessor control
• Power Wind
• Auto Cool
• HSPF compatible with Multi F. ODU's

Operating Range:
Outdoor Unit
Cooling (T° DB) 0 - 118
Heating (T° WB) -4 - 64
Indoor Unit
Cooling (T° WB) 57-77
Heating (T° DB) 59-81

Unit Data:
Refrigerant Type R410A
Refrigerant Control R410A
Refrigerant Charge (lb) 2.45
ODU Sound Pressure (WMA) @ 10' (dB(A)) 36/33/30
ODU Sound Pressure Max (Cool/Heat) @ 10' (dB(A)) 47/51
ODU Net S&W (lb) 62
ODU Shipping Weight (lb) 89
ODU Net Unit Weight (lb) 31
ODU Shipping Weight (lb) 37
Grille Weight (lb) 7
Grille Shipping Weight (lb) 9

Notes:
1. Check for proper installation of the outdoor unit.
2. Check for proper installation of the indoor unit.
3. Check for proper installation of the ductwork.
4. Check for proper installation of the piping.
5. Check for proper installation of the electrical.

AC-1 & ACCU-1 PRINCIPALS OFFICE

NOTE: FURNISH WITH PREMTRV2REMOTE CONTROLLER

CABINET UNIT HEATER SUBMITTAL DATA
Floor Mounted Units - Models F and FI - With Top Discharge
Piping and mounting connections shown are typical for all air flow arrangements. SEE OTHER SIDE.

TABLE 1

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 2

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 3

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 4

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 5

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 6

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 7

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 8

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 9

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 10

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 11

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 12

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 13

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 14

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 15

SIZE	W	D	H	W	D	H
02	110	128	157	110	128	157
03	128	157	175	128	157	175
04	157	175	192	157	175	192
06	192	221	234	192	221	234
08	234	271	284	234	271	284
10	271	310	323	271	310	323
12	310	349	362	310	349	362
14	349	388	401	349	388	401

TABLE 16

SIZE	W	D	H	W	D	H
------	---	---	---	---	---	---

ELECTRICAL CONSTRUCTION NOTES (NOT ALL APPLY):

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
- THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PHASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE, 4-WIRE WITH 208Y/120V DERIVED FROM STEP-DOWN TRANSFORMERS. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
- THE DRAWINGS SHOW SCHEMATICALLY THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF ITEMS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION. ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
- DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
- DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CITY, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.
- THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT PHOTOGRAPHY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
- DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
- A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS, OUTLETS, MOTORS, AND APPURTENANCES.
- PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 60V SHALL BE MARKED ON FITTINGS AND JUNCTION BOXES.
- FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS, SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY OBTAINED UNLESS OTHERWISE NOTED.
- PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
- FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
- FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION.
- DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED WITH NEW FIXTURES.
- PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED. ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS.
- ALL WIRING TO BE 182" (103) 3/4" OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
- ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
- ALL COURINGS AND CONDUITS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
- ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH AN ASBESTOS RESISTANT PAINT OR COAT.
- WIRING INSTALLED IN CEILING SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
- ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC. AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED BY BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS SHALL BE PLENUM RATED.
- CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
- ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.
- WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AN EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER APPROVED BY ENGINEERING TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.
- ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT TO THE CIRCUIT BREAKER.
- ALL CIRCUIT BREAKER POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
- ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUBSTITUTED FROM STRUCTURE PER NEC.
- WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
- WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL REMOVE (S) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 80A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A, 3-4W/24 POLE SUB PANEL, AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3W/3P 180V/120V/120V/120V.
- SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISIBLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.
- ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
- ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
- EC SHALL PROVIDE A WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
- UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT (W STARTERS AND DISCONNECTS). THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.

DEMOLITION NOTES (NOT ALL APPLY):

- THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWINGS ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVAL/STORAGE, AND REINSTALLATION IN SAME LOCATION.
- MANY OTHER ELECTRICAL ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE RUNG DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRICAL DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
- AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRICAL SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRICAL ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRICAL ITEMS, OF ANY VOLTAGE OR PURPOSE.
- THE SPECIAL SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNERS INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL OF PER REGULATIONS.
- RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
- LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL. NON-ELECTRIC CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFEGUARD LIGHTING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHETHER QUANTITY, IF ANY, OF THESE TO OWNERS INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL.
- THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
- IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRICAL SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRICAL SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
- IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
- ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REWORK AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SHALL BE BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND OTHER ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGL	PSEGL LONG ISLAND (UTILITY CO.)
SM, S.M.	SURFACE MOUNTED
U.O.N.	UNLESS OTHERWISE NOTED
EC, E.C.	ELECTRICAL CONTRACTOR
GC, G.C.	GENERAL CONTRACTOR
MC, M.C.	MECHANICAL CONTRACTOR
PC, P.C.	PLUMBING CONTRACTOR
TYP.	TYPICAL
REQ'D	REQUIRED
O.C.	ON CENTER
CKT	CIRCUIT
AFF	AWAY FROM FLOOR
CB	CIRCUIT BREAKER
REC	RECEPTACLE
ACT	ABOVE COUNTER TOP

TEMPORARY POWER CONSTRUCTION NOTES (NOT ALL APPLY)

- THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WPTDCC. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
- ALL RECEPTACLES SHALL BE GFI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLE OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.
- TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE-ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS. RUBBER TAPE, AND THEN PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX-A PLASTIC SHAPE ON CASE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE. PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
- WIRING SHALL BE 182" (103) 3/4" (120) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (15 100 WATT LAMPS). SWITCHING SHALL BE DONE IN THE SWITCH RATED 20A 1P CIRCUIT BREAKERS. SEGREGATE THE NIGHT LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET 1#10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #10 CONDUCTORS.
- THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
- A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.
- POWER PANELS SHALL BE EQUIPPED WITH 42" 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE DISPOSAL.
- REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING, SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNERS PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.
- PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.
- ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER. SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

	SMOKE DETECTOR - CEILING MOUNTED
	SPEAKER - CEILING MOUNTED
	FIRE ALARM RELAY
	CARD READER
	DATA BOX - PROVIDE R4S CONNECTION AND CAT5 CABLE
	FIRE ALARM CONTROL PANEL
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	MECHANICAL EQUIPMENT CONNECTION
	DISCONNECT - NEMA 3R RATED FOR OUTDOOR - NEMA 1 FOR INDOORS
	FIRE ALARM PULL BOX
	FIRE ALARM COMBINATION AUDIOVISUAL NOTIFICATION
	LIGHTING SWITCH
	LINEAR LIGHTING FIXTURE
	2' X 2' RECESSED FIXTURE

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

	EXISTING TO REMAIN DEVICES
	DEVICES TO BE REMOVED. PULL BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE PLANS.
	NEW DEVICES

FIRE STOP NOTES:

- ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.
- THE FIRE STOP MATERIALS SHALL BE HLT1 TYPE FS-697 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 0P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-619 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND AS SUITABLE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
- FIRE STOP MATERIALS OTHER THAN HLT1 SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
- ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS, IE, FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER, AND LIGHTING.

REV.	DATE	ITEM

NOTICE

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CATSKILL CENTRAL SCHOOL DISTRICT
2019 BOND - ADDITIONS & RENOVATION PROJECT PHASE 2
CATSKILL MIDDLE & HIGH SCHOOL
 GREENE COUNTY

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

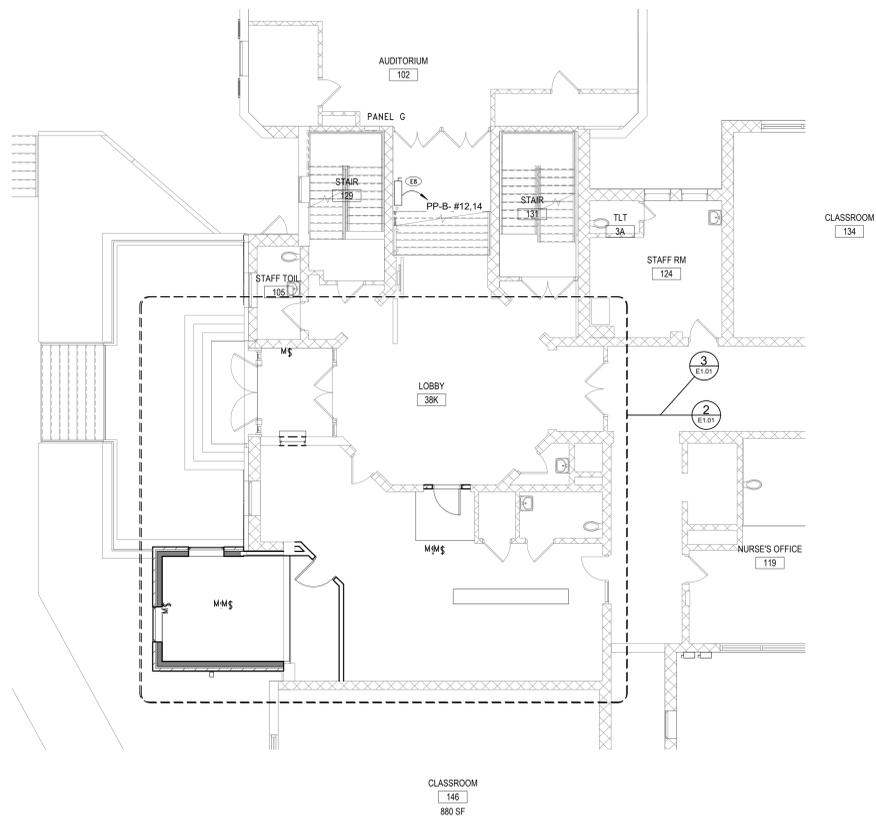
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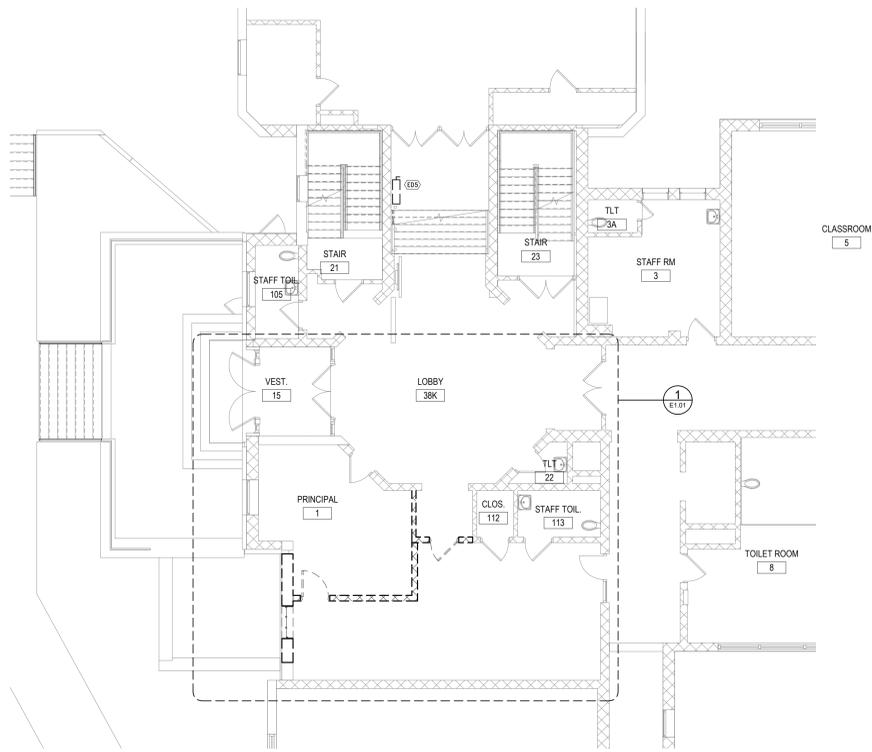
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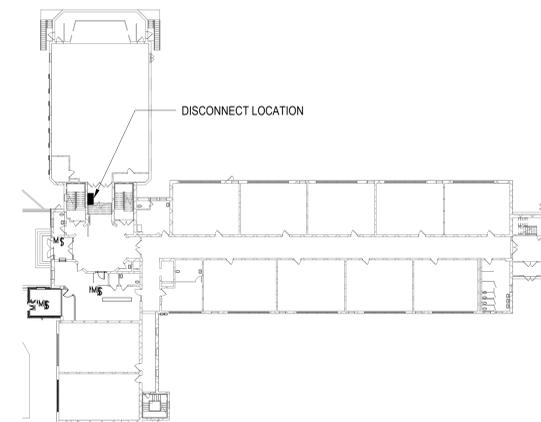
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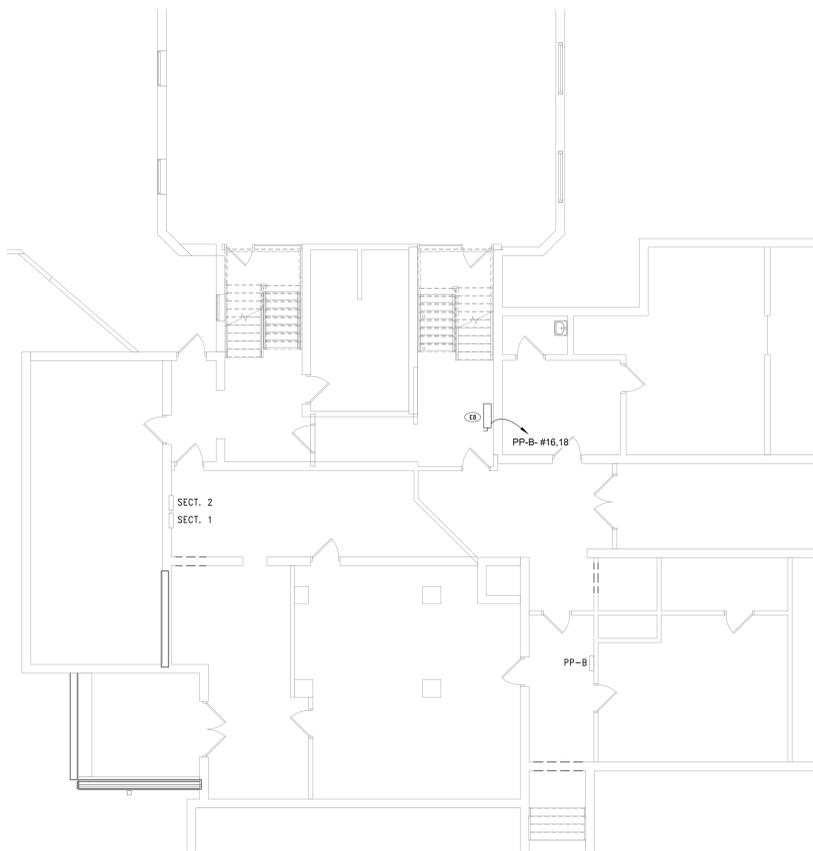
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SCALE: 1/8" = 1'-0"



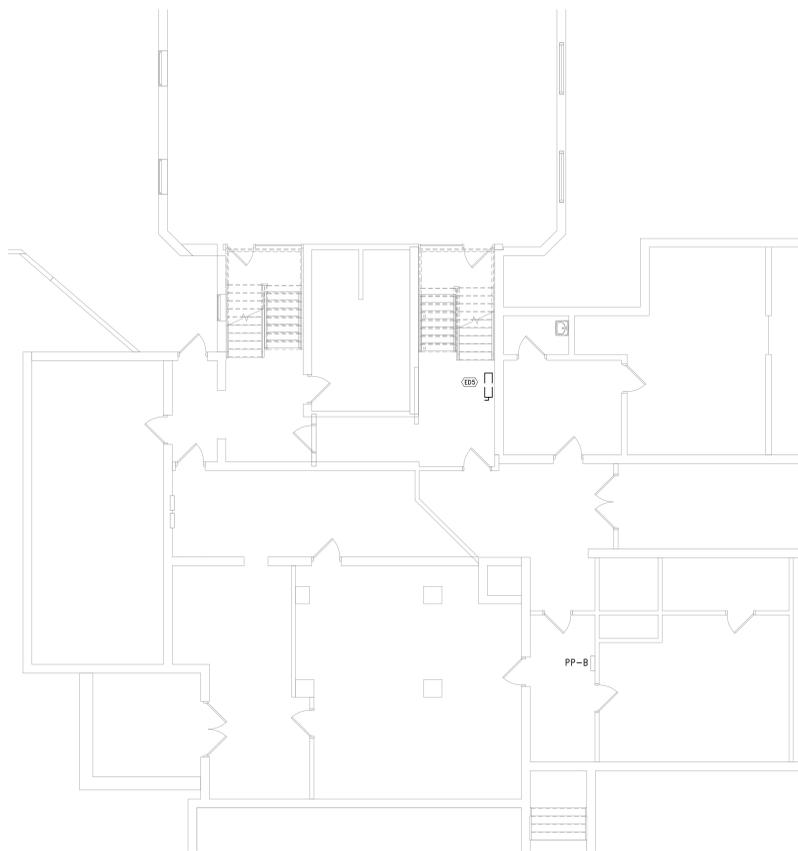
2 FIRST FLOOR KEY PLAN - DEMO
SCALE: 1/8" = 1'-0"



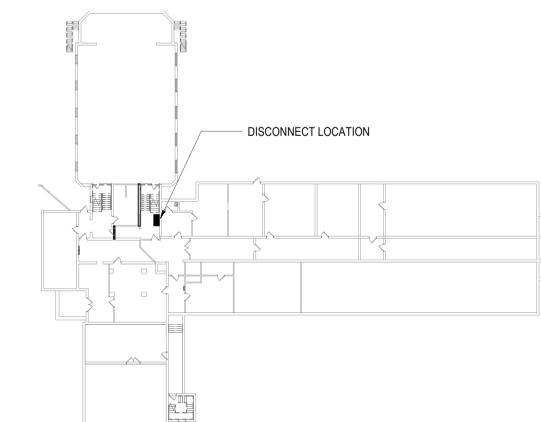
3 KEY PLAN
SCALE: 1/32" = 1'-0"



5 BASEMENT KEY PLAN - NEW
SCALE: 1/8" = 1'-0"



1 BASEMENT KEY PLAN - DEMO
SCALE: 1/8" = 1'-0"



6 BASEMENT KEY PLAN 1
SCALE: 1/32" = 1'-0"

SHEET NOTES

- A. CONTRACTOR SHALL FIELD VERIFY TYPE, QUANTITY AND LOCATION OF ALL EXISTING DEVICES TO BE REMOVED PRIOR TO SUBMITTING BID.
- B. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RE-CIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.
- C. CONTRACTOR SHALL PATCH AND PAINT ALL REMOVED CLOCK LOCATIONS AS NECESSARY.
- D. ALL DATA CABLING SHALL BE ROUTED TO NEAREST MDF PANEL. REFER TO TECHNOLOGY DETAILS AND NOTES ON E4.01.
- E. FIRE ALARM CONTROL PANEL IS A SIEMENS MXL-1Q.

KEY NOTES

- E8 RE-INSTALL LCD SCREEN PREVIOUSLY REMOVED. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATION.
- E05 DISCONNECT AND REMOVE LIGHTING FIXTURES AS INDICATED. PULL BACK ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO NEAREST ACTIVE SOURCE AND REMOVE.

REV.	DATE	ITEM

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PROJECT
CATSKILL CENTRAL SCHOOL DISTRICT
2019 BOND - ADDITIONS & RENOVATION PROJECT PHASE 2
CATSKILL MIDDLE & HIGH SCHOOL
GREENE COUNTY

DWG TITLE
PARTIAL BASEMENT AND FIRST FLOOR PLAN

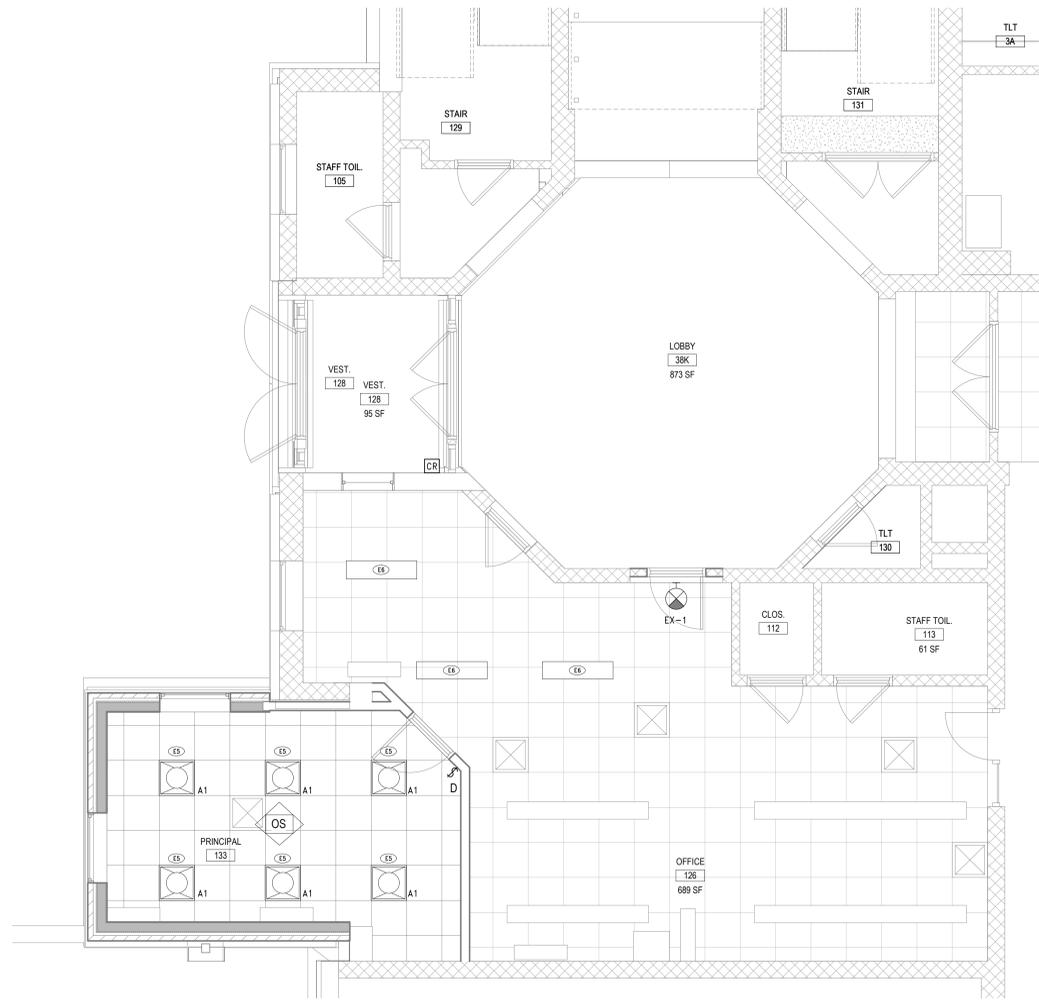
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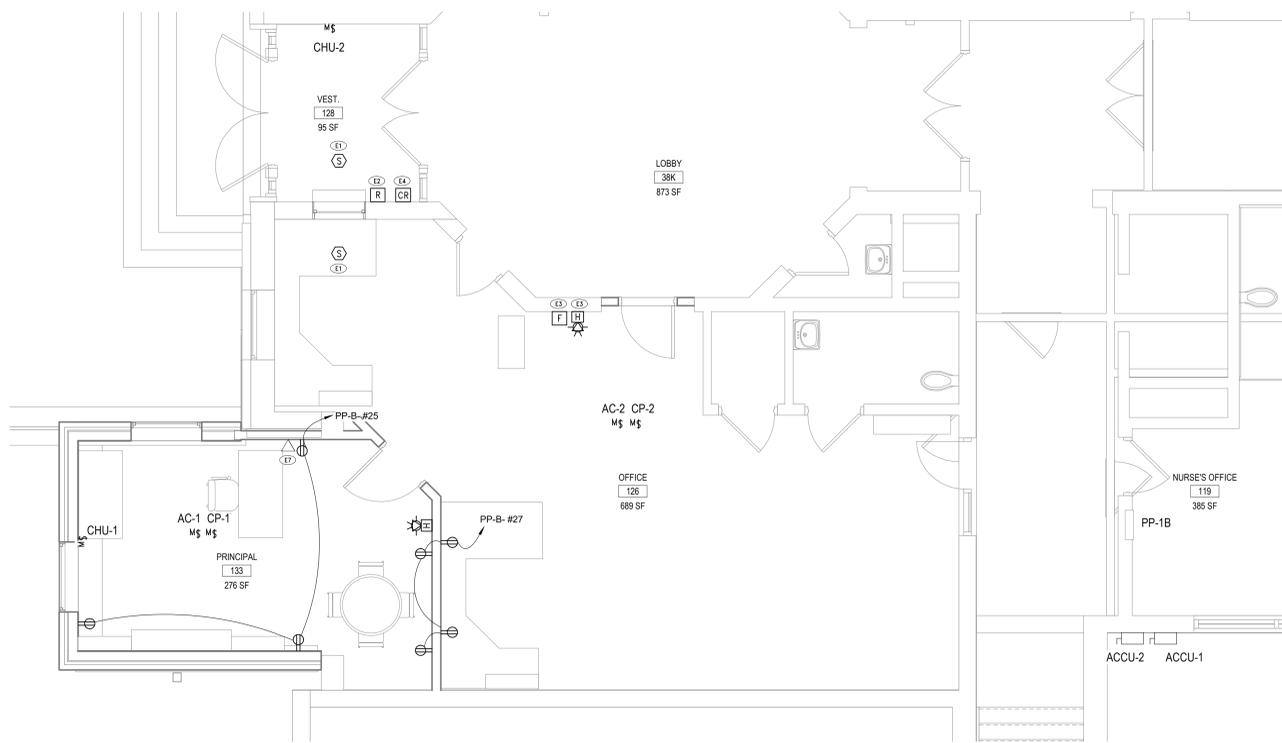
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SED. NO. 19-04-01-06-0-005-022
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DWG. TITLE PARTIAL BASEMENT AND FIRST FLOOR PLAN
SCALE: AS NOTED
DATE: 2/2/2023
BID P/L DATE: SEPT 28, 2020
FILE NO. 19-155C

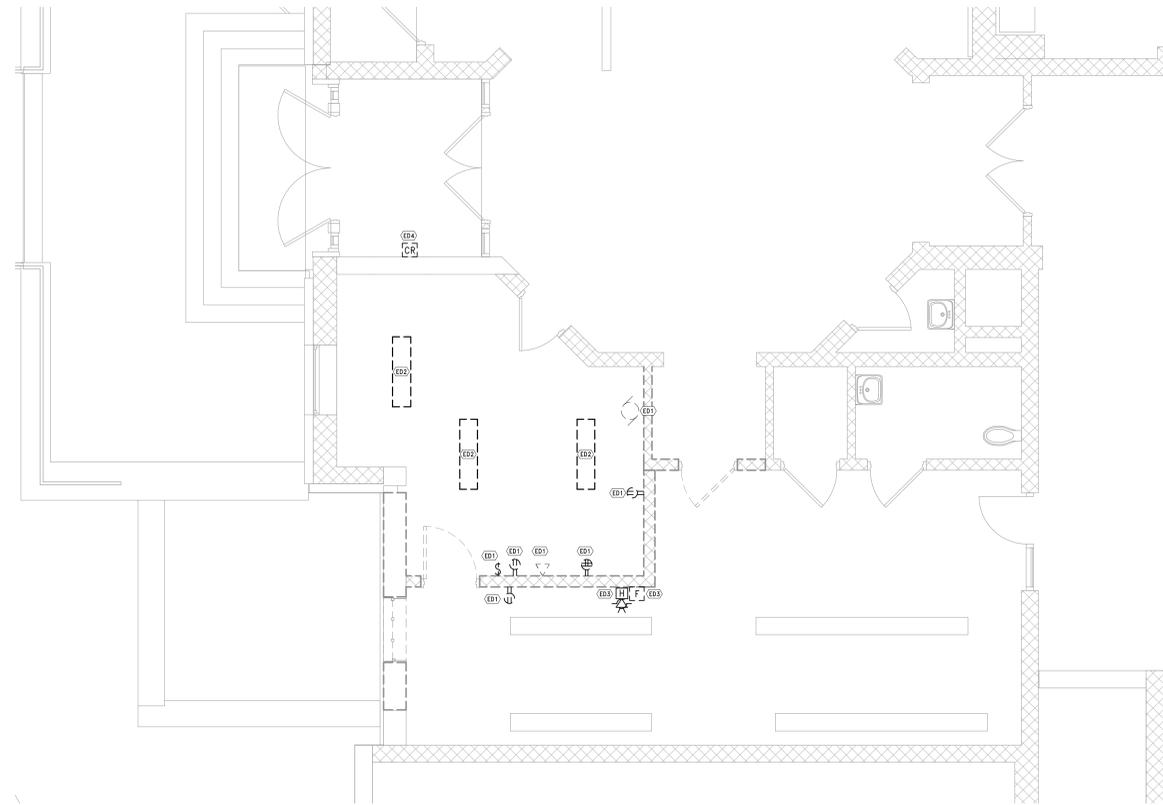
E1.00 MHS



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



2 PARTIAL FIRST FLOOR POWER AND SYSTEM PLAN
SCALE: 1/4" = 1'-0"



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

SHEET NOTES

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- B. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECONNECT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.
- C. CONTRACTOR SHALL PATCH AND PAINT ALL REMOVED CLOCK LOCATIONS AS NECESSARY.
- D. ALL DATA CABLING SHALL BE ROUTED TO NEAREST MDF PANEL. REFER TO TECHNOLOGY DETAILS AND NOTES ON E4.01.
- E. FIRE ALARM CONTROL PANEL IS A SIEMENS MXL-1Q.

KEY NOTES

- E1 PROVIDE WIRELESS CLOCK IN PROPOSED LOCATION AS SHOWN. EXACT LOCATION SHALL BE COORDINATED WITH CLIENT PRIOR TO MOUNTING OF CLOCK. PROPOSED CLOCK SHALL BE BATTERY OPERATED AND MATCH CLOCKS PROVIDED IN PREVIOUS PHASE.
- E2 REINSTALL AND RECONNECT ELECTRICAL DEVICE PREVIOUSLY DISCONNECTED TO ALLOW FOR ARCHITECTURAL RENOVATION WORK.
- E3 RE-USE EXISTING BRANCH CIRCUIT PREVIOUSLY CONNECTED TO REMOVED FIXTURES. EXTEND ASSOCIATED CONDUIT AND WIRING AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
- E4 INSTALL RECEPTACLE ON LAB TABLE TO BE PROVIDED BY OTHERS. FIELD COORDINATE EXACT RECEPTACLE LOCATION ON TABLE PRIOR TO INSTALLATION.
- E5 PROVIDE 400A-3P CB IN DISTRIBUTION PANEL MDP-HS FOR PANEL HS-MP2. CIRCUIT BREAKER SHALL MATCH EXISTING PANEL TYPE AND AIC RATING. REFER TO SINGLE LINE DIAGRAM ON E5.01 FOR FEEDER SIZING DETAILS.
- E6 PROVIDE 250A-3P CB IN DISTRIBUTION PANEL MDP-MS FOR PANEL MP-7A. CIRCUIT BREAKER SHALL MATCH EXISTING PANEL IN TYPE AND AIC RATING. UTILIZE (3) #250KCMIL, #4G, IN 3" CONDUIT.
- E7 PROVIDE 100A-3P CB IN DISTRIBUTION PANEL MDP-MS FOR PANEL CP2-MB. CIRCUIT BREAKER SHALL MATCH EXISTING PANEL IN TYPE AND AIC RATING. UTILIZE (3) #1, #6G, IN 1-1/2" CONDUIT.
- ED1 DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT TO BE REMOVED (BY OTHERS). REMOVE DISCONNECTING MEANS AND PULL BACK/REMOVE ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL LOCATION.
- ED2 DE-ENERGIZE, DISCONNECT AND REMOVE CLOCKS AND MASTER CLOCK PANEL. PULL BACK AND REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO NEAREST ACTIVE SOURCE. PROVIDE COVER PLATE FOR OPENING AS REQUIRED. FIELD VERIFY COMBINATION CLOCK-SPEAKER UNIT LOCATIONS AND PROPERLY COORDINATE REMOVAL OF CLOCK AND COVERING OF OPENING.
- ED3 DISCONNECT, REMOVE AND MAINTAIN ELECTRICAL DEVICE TO ALLOW FOR ARCHITECTURAL WORK AS REQUIRED. DEVICE SHALL BE REINSTALLED AT COMPLETION OF RENOVATION WORK.
- ED4 DISCONNECT AND REMOVE LIGHTING FIXTURES AND ALL ASSOCIATED CONTROLS AS INDICATED. MAINTAIN ASSOCIATED BRANCH CIRCUIT FOR RE-USE WITH NEW LIGHTING FIXTURES IN THIS SPACE. REFER TO NEW WORK PLAN.

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DRWG. BY: EEA
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E1.01 MHS

Branch Panel: PANEL G													
Location: STAIR				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From:				Phases: 3				Mains Type: M.O					
Mounting: SURFACE				Wires: 4				Mains Rating: 100 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	2		
3	EXISTING CKT	15 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	4		
5	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	6		
7	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	8		
9	EXISTING CKT	20 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	10		
11	EXISTING CKT	15 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	12		
13	EXISTING CKT	15 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	14		
15	EXISTING CKT	15 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	16		
17	EXISTING CKT	20 A	1			0 VA	0 VA	2	20 A	ACCU-1 & CP-1	18		
19				0 VA				--	--		20		
21								--	--		22		
23								--	--		24		
Total Load:				0 VA	0 VA	0 VA							
Total Amps:				0 A	0 A	0 A							

Notes:
PROVIDE CIRCUIT TO MATCH PANEL TYPE AND AIC RATING

Branch Panel: PP-B													
Location: CORR. 013				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From:				Phases: 3				Mains Type: MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 125 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	STORAGE RM LIGHTS (E)	20 A	1	0 VA	0 VA			1	20 A	NURSE OFFICES DECP. (E)	2		
3	FACULTY RM LIGHTS (E)	20 A	1		0 VA	0 VA		1	20 A	EXIT LIGHTS (E)	4		
5	ELEV CAB LIGHTS (E)	20 A	1			0 VA	0 VA	1	20 A	HALLWAY LIGHTS AND STAIR LIGHTS...	6		
7	CTU-1 (E)	20 A	1	0 VA	0 VA			1	20 A	CUH-1 (E)	8		
9	ANDOVER AHU (E)	20 A	1		0 VA	0 VA		1	20 A	STORAGE RM LIGHTS NEAR STAIRWA...	10		
11	BACK MECH RM LIGHTS (E)	20 A	1			0 VA	0 VA	2	20 A	LIFT	12		
13	GX-2 (E)	20 A	1	0 VA	0 VA			--	--		14		
15	LIGHTS MECH RM AND ELEC PIT (E)	20 A	1		0 VA	0 VA		2	20 A	LIFT	16		
17	FACULTY RM RECEPT (E)	20 A	1			0 VA	0 VA	--	--		18		
19	FACULTY RM RECEPT (E)	20 A	1	0 VA	0 VA			3	20 A	GX-1 (E)	20		
21	FACULTY RM RECEPT (E)	20 A	1		0 VA	0 VA		--	--		22		
23	FACULTY RM RECEPT (E)	20 A	1			0 VA	0 VA	--	--		24		
25	OFFICE RECEPT	20 A	1	540 VA	0 VA			3	20 A	STARTER BOILER RM (E)	26		
27	OFFICE RECEPT	20 A	1		720 VA	0 VA		--	--		28		
29	RED BASEMENT THERAPY (E)	20 A	1			0 VA	0 VA	--	--		30		
31	CTU-2 (E)	20 A	3	0 VA	0 VA			3	20 A	COPY MECH	32		
33	--	--	--		0 VA	0 VA		--	--		34		
35	--	--	--			0 VA	0 VA	--	--		36		
37	AHU-1 (E)	20 A	3	0 VA	0 VA			1	20 A	BLUE BASEMENT STRINGS RM	38		
39	--	--	--		0 VA	0 VA		1	20 A	EXISTING CIRCUIT	40		
41	--	--	--			0 VA	0 VA	1	20 A	EXISTING CIRCUIT	42		
Total Load:				540 VA	720 VA	0 VA							
Total Amps:				5 A	7 A	0 A							

Notes:

Branch Panel: SECT. 1													
Location:				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From:				Phases: 3				Mains Type: MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 125 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	EXISTING CKT	20 A	1	0 VA	0 VA			2	60 A	EXISTING CKT	2		
3	EXISTING CKT	20 A	1		0 VA	0 VA		--	--		4		
5	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	6		
7	EXISTING CKT	20 A	3	0 VA	0 VA			3	40 A	EXISTING CKT	8		
9	--	--	--		0 VA	0 VA		--	--		10		
11	--	--	--					--	--		12		
13	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	14		
15	EXISTING CKT	20 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	16		
17	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	18		
19	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	20		
21	EXISTING CKT	20 A	2		0 VA	0 VA		1	20 A	EXISTING CKT	22		
23	--	--	--			0 VA	0 VA	2	20 A	EXISTING CKT	24		
25	EXISTING CKT	20 A	2	0 VA	0 VA			--	--		26		
27	--	--	--		0 VA	0 VA		2	20 A	EXISTING CKT	28		
29	EXISTING CKT	60 A	2			0 VA	0 VA	--	--		30		
31	--	--	--	0 VA	0 VA			1	20 A	EXISTING CKT	32		
33	EXISTING CKT	90 A	2		0 VA	0 VA		1	20 A	EXISTING CKT	34		
35	--	--	--			0 VA	0 VA	1	20 A	EXISTING CKT	36		
37	EXISTING CKT	30 A	3	0 VA	0 VA			1	20 A	EXISTING CKT	38		
39	--	--	--		0 VA	0 VA		1	40 A	EXISTING CKT	40		
41	--	--	--			0 VA	0 VA	1	20 A	CHU-1 AND 2	42		
Total Load:				0 VA	0 VA	0 VA							
Total Amps:				0 A	0 A	0 A							

Notes:

Branch Panel: SECT. 2													
Location:				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From:				Phases: 3				Mains Type: MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 125 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT			
1	EXISTING CKT	100 A	3	0 VA	0 VA			1	20 A	EXISTING CKT	2		
3	--	--	--		0 VA	0 VA		1	20 A	EXISTING CKT	4		
5	--	--	--			0 VA	0 VA	2	50 A	EXISTING CKT	6		
7	EXISTING CKT	40 A	2	0 VA	0 VA			--	--		8		
9	--	--	--		0 VA	0 VA		2	40 A	EXISTING CKT	10		
11	EXISTING CKT	20 A	1			0 VA	0 VA	--	--		12		
13	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	14		
15	EXISTING CKT	20 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	16		
17	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	18		
19	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	20		
21	EXISTING CKT	20 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	22		
23	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	24		
25	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	26		
27	EXISTING CKT	20 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	28		
29	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	30		
31	EXISTING CKT	20 A	1	0 VA	0 VA			1	20 A	EXISTING CKT	32		
33	EXISTING CKT	20 A	1		0 VA	0 VA		1	20 A	EXISTING CKT	34		
35	EXISTING CKT	20 A	1			0 VA	0 VA	1	20 A	EXISTING CKT	36		
37	EXISTING CKT	20 A	1	0 VA	0 VA			--	--		38		
39	EXISTING CKT	90 A	2		0 VA	0 VA		2	20 A	ACCU-2 & CP-2	40		
41	--	--	--			0 VA	0 VA	--	--		42		
Total Load:				0 VA	0 VA	0 VA							
Total Amps:				0 A	0 A	0 A							

Notes:

Electrical Fixture Schedule													
Mark	DESCRIPTION	VOLTAGE	PHASE	AMPS	Panel	Circuit Number	CIRCUIT BREAKER	CONDUIT AND WIRING	PROVIDE DISCONNECT	FSD	DUCT SMOKE DETECTOR	NOTES	
AC-1	INDOOR AC UNIT	208	1	--				(2)#12, #12G, IN 3/4" CONDUIT	Yes			FED FROM OUTDOOR UNIT	
AC-2	INDOOR AC UNIT	208	1	--				(2)#12, #12G, IN 3/4" CONDUIT	Yes			FED FROM OUTDOOR UNIT	
ACCU-1	OUTDOOR AC UNIT	208	1	11.9 MCA	PANEL G	18.20	20A-2P	(2)#12, #12G, IN 3/4" CONDUIT	Yes				
ACCU-2	OUTDOOR AC UNIT	208	1	20 MCA	SECT. 2	40.42	30A-2P	(2)#12, #12G, IN 3/4" CONDUIT	Yes				
CHU-1	CABINET UNIT HEATER	120	1	8 FLA	SECT. 1	42	15A-1P	(2)#12, #12G, IN 3/4" CONDUIT	Yes				
CHU-2	CABINET UNIT HEATER	120	1	8 FLA	SECT. 1	42	15A-1P	(2)#12, #12G, IN 3/4" CONDUIT	Yes				
CP-1	CONDENSATE PUMP	208	1	1 FLA	PANEL G	18.20	15A-2P	(2)#12, #12G, IN 3/4" CONDUIT	Yes				
CP-2	CONDENSATE PUMP	208	1	1 FLA	SECT. 2	40.42	15A-2P	(2)#12, #12G, IN 3/4" CONDUIT	Yes				

265000 - LIGHTING FIXTURE SCHEDULE						
TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE / CCT / LAMP / CRI	VOLTAGE	REMARKS
A1	2'X2' RECESSED LED WITH BEVEL OPTION, DLC LISTED WITH 6500 LUMEN PACKAGE.	COOPER METALUX	Z2PD-65-PB1-LB35	58W/3500K/LED/80+	UNV	
EX-1	INDOOR EXIT SIGN WITH NICKEL-CADMIUM BATTERY	ACUTY BRANDS EDG AND EDGR SER	EDG/EDGR-W-1-G-EL-WM	LED	UNV	

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DRWG. BY: Author
 CHK. BY: Checker

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