ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG / CLNG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDENT-TREATED MATERIAL
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZE(D)
GC	GENERAL CONTRACT(OR)
GND	GROUND
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HC	HANDICAPPED ACCESSIBLE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH / INCHES
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LIN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
O/HD	OVERHEAD
OPT	OPTIONAL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RB	RUBBER / RUBBER WALL BASE
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
U.O.N	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WPT	WOOD PRESERVED-TREATED MATERIAL
WT	WEIGHT
YD	YARD

ARCHITECTURAL LEGEND

MATERIAL INDICATIONS

- EARTH
- GRANULAR FILL
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- GROUT
- ROUGH WOOD BLOCKING
- SHIM
- FINISH WOOD
- PLYWOOD
- SHEATHING
- RIGID INSULATION
- BATT INSULATION
- SPRAY FOAM INSULATION
- EPS INSULATION
- STEEL

DIMENSIONING CONVENTIONS

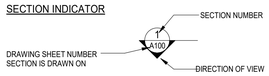
- FACE OF STUD OR CMU
- COLUMN CENTER LINE

SYMBOLS

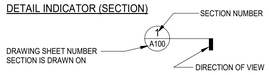
- CLASSROOM / 100 / 000 S.F. — ROOM NAME / ROOM NUMBER / AREA OF ROOM
- A100 — DOOR NUMBER, REFER TO A900 DRAWINGS
- 1 — WINDOW TAG, REFER TO A900 DRAWINGS
- BL1 — BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
- S1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 / M — PARTITION TAG, REFER TO A700 DRAWINGS
- ADDITIONAL NOTES FOR PARTITION
- 1 — REVISION NUMBER
- 1 — KEY NOTE, NEW WORK
- 1 — KEY NOTE, DEMOLITION WORK
- +0'-0" — ELEVATION TAG
- ACCESSIBILITY SIGN
- WALL FINISH / BASE FINISH / FLOOR FINISH / CEILING FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS
- CHANGE IN FINISH MATERIAL

DETAIL INDICATOR LEGEND

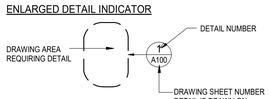
SECTION INDICATOR



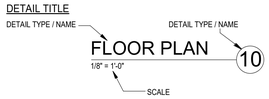
DETAIL INDICATOR (SECTION)



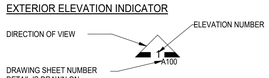
ENLARGED DETAIL INDICATOR



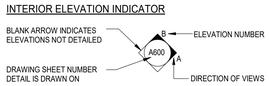
DETAIL TITLE



EXTERIOR ELEVATION INDICATOR



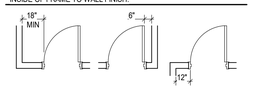
INTERIOR ELEVATION INDICATOR



PLAN GRAPHICS LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW CONCRETE MASONRY WALL
- NEW METAL STUD WALL
- NEW BRICK VENEER
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW U.O.N. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



GENERAL NOTES

1. DIMENSIONS ARE GIVEN THUS (UNLESS OTHERWISE NOTED)
   A. TO FACE OF MASONRY WALL
   B. TO FACE OF GYPSUM WALL BOARD
   C. TO COLUMN CENTERLINES
   D. TO FINISH FACE OF SOFFIT OR CEILING
   E. FACE OF EXISTING CONSTRUCTION
2. DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK
3. WALLS ON COLUMN LINES ARE CENTERED, U.O.N.
4. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
5. LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
6. ALL ELEVATIONS (X'-X") ARE REFERENCE FROM FIRST FLOOR ELEVATION.
7. ALL WOOD BLOCKING WITHIN ROOFING SYSTEM AND WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED.
8. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND / OR FIRE STOPPED. COORDINATE WITH 'H' DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
9. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
10. PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
11. FOR ALL MATERIAL TESTING, REFER TO SPECIFICATION DIVISION 000220.
12. ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE.

2020 EXISTING BUILDING CODE OF NEW YORK STATE ANALYSIS - CLASSIFICATION OF WORK

EBC 603	**ALTERATION - LEVEL 2**	
EBC 603.1	SCOPE	LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, AND THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

2020 BUILDING CODE OF NEW YORK STATE - ANALYSIS CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE CHAPTER 6 - TYPES OF CONSTRUCTION

BC 302.1	OCCUPANCY CLASSIFICATION	3. EDUCATIONAL (SECTION 305): **GROUP E**
BC 305.1	EDUCATIONAL GROUP E	EDUCATIONAL GROUP E OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.
TABLE 601	FIRE-RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS EXISTING BUILDING	PRIMARY STRUCTURAL FRAME, BEARING WALLS AND PARTITIONS, NONBEARING WALLS AND PARTITIONS, FLOOR CONSTRUCTION, AND ROOF CONSTRUCTION. **TYPE I-B AND II-B** FIRE-RESISTANCE (HOURS): **0**

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

TABLE C301.1	NEW YORK STATE CLIMATE ZONES BY COUNTY	
	CLIMATE ZONE 4A	WESTCHESTER COUNTY, NY
TABLE C402.4	BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND AHGC REQUIREMENTS	
ENTRANCE DOORS	(CLIMATE ZONE 4)	U-FACTOR 0.77 SHGC 0.2 < PF < 0.5 0.43

2020 BUILDING CODE OF NEW YORK STATE ANALYSIS - CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

TABLE 506.2	ALLOWABLE AREA FACTOR IN SF	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLERS 14,500 TYPE II B CONSTRUCTION
BC 506.2.3	SINGLE-OCCUPANCY	THE ALLOWABLE AREA OF A SINGLE-OCCUPANCY BUILDING WITH MORE THAN ONE STORY ABOVE GRADE PLANE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-2: EQ. 5-2 Aa = [At + (NS x Lf)] Sa Aa = [14,500 sf + (14,500 sf x 0.749)] x 2 **Aa = 50,721 SF (PER BUILDING) ; 25,360 SF (MAX. AREA PER FLOOR)**
BC 506.3	FRONTAGE INCREASE	EVERY BUILDING SHALL ADJOIN OR HAVE ACCESS TO A PUBLIC WAY TO RECEIVE AN AREA FACTOR INCREASE BASED ON FRONTAGE.
BC 506.3.2	MINIMUM PERCENTAGE	TO QUALIFY FOR AN AREA FACTOR INCREASE BASED ON FRONTAGE, A BUILDING SHALL HAVE OF PERIMETER NOT LESS THAN 25 PERCENT OF ITS PERIMETER ON A PUBLIC WAY OR OPEN SPACE.
BC 506.3.2	MINIMUM FRONTAGE	TO QUALIFY FOR AN AREA INCREASE BASED ON FRONTAGE, THE PUBLIC WAY OR OPEN SPACE DISTANCE [_] SHALL HAVE A MINIMUM DISTANCE OF 20 FEET MEASURED AT RIGHT ANGLES FROM THE BUILDING FACE TO ANY OF THE FOLLOWING: 1. THE CLOSEST INTERIOR LOT LINE 3. THE EXTERIOR FACE OF AN ADJACENT BUILDING ON THE SAME PROPERTY. [...] WHERE THE VALUE OF W (WIDTH WEIGHTED AVERAGE) VARIES ALONG THE PERIMETER OF THE BUILDING, THE CALCULATION PREFORMED IN ACCORDANCE WITH EQUATION 5-5 SHALL BE BASED ON THE WEIGHTED AVERAGE CALCULATED IN ACCORDANCE TO EQUATION 5-4: EQ. 5-4 W = (L1 x w1 + L2 x w2 + LN x wn) / F **W = 29.94**
BC 506.3.3	AMOUNT OF INCREASE	THE AREA FACTOR INCREASE BASED ON FRONTAGE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-5: EQ. 5-5 If = [F / P - 0.25] W / 30 If = [1,442 / 1,442 - 0.25] 30 /30 **If = 0.749**
	EXIST. FIRST FLOOR EXIST. SECOND FLOOR	9,213 SF BLDG 'A' 13,663 SF BLDG. 'B' 15,978 SF
	EXIST. THIRD FLOOR EXIST. FOURTH FLOOR	6,209 SF 10,820 SF
MAXIMUM ALLOWABLE AREA IN ACCORDANCE TO BC 506.2.3		**Aa = 25,375 SF PER FLOOR**
BC 1704.2	SPECIAL INSPECTIONS AND TESTS	EXCEPTION NO. 1 SPECIAL INSPECTIONS AND TEST ARE NOT REQUIRED FOR CONSTRUCTION OF MINOR NATURE [...] EXCEPTION NO. 3 SPECIAL INSPECTIONS AND TESTS ARE NOT REQUIRED FOR PRORTIONS OF STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE COLD FORMED STEEL LIGHT FRAME CONSTRUCTION [...]

GREENVALE ELEMENTARY SCHOOL

1 GABRIEL RESCIGNO DR. SCARSDALE, NY 10583

SED NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

BID SET: 01/03/2023

DRAWING LIST

GENERAL DRAWINGS
GR G001 GENERAL INFORMATION
GR LS001 LIFE SAFETY PLAN - FIRST AND SECOND FLOOR
GR LS002 LIFE SAFETY PLAN - THIRD AND FOURTH

ASBESTOS ABATEMENT DRAWINGS
GR H-001.00 ASBESTOS ABATEMENT GENERAL NOTES
GR H-002.00 ASBESTOS ABATEMENT FIRST FLOOR PLAN

ARCHITECTURAL DEMOLITION DRAWINGS
GR AD101 DEMOLITION PLAN - FIRST AND SECOND FLOOR
GR AD102 DEMOLITION PLAN - THIRD AND FOURTH FLOOR

ARCHITECTURAL DRAWINGS
GR A101 OVERALL PLAN - FIRST AND SECOND FLOOR
GR A102 OVERALL PLAN - THIRD AND FOURTH FLOOR
GR A401 MAIN ENTRY
GR A402 MAIN ENTRY ELEVATION
GR A501 DETAILS
GR A502 MAIN ENTRY STAIR DETAIL
GR A701 PARTITION TYPES
GR A901 DOOR SCHEDULE AND ELEVATIONS
GR A902 DOOR DETAILS
ARCHITECTURAL FINISH DRAWINGS
GR AF001 FINISHES

STRUCTURAL DRAWINGS
GR S001 GENERAL NOTES
GR FO-100 FOUNDATION PLAN
GR S100 FIRST FLOOR FRAMING PLAN

MECHANICAL DRAWINGS
GR M001 COVER SHEET
GR M101 THIRD FLOOR VESTIBULE PARTIAL PLANS
GR M201 SCHEDULES
GR M301 DETAILS

ELECTRICAL DRAWINGS
GR E001 COVER SHEET
GR E002 ELECTRICAL GENERAL NOTES
GR E101 THIRD FLOOR VESTIBULE ELECTRICAL PARTIAL PLANS
GR E201 SITE LIGHTING PLAN
GR E301 SECURITY EQUIPMENT POWER PLANS
GR E601 ELECTRICAL PANEL SCHEDULES

PLUMBING DRAWINGS
GR P001 COVER SHEET
GR P103 THIRD FLOOR AND VESTIBULE PARTIAL PLANS
GR P201 DETAILS

SECURITY DRAWINGS
GR TY001 LEGEND AND ABBREVIATIONS
GR TY101 FIRST AND SECOND FLOOR PLANS
GR TY102 THIRD AND FOURTH FLOOR PLANS
GR TY201 ENLARGED PLAN
GR TY301 RISER DIAGRAMS
GR TY401 DETAILS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

GREENVALE ELEMENTARY SCHOOL

ARCHITECT
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2 LYON PLACE
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MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
THE LA GROUP
179 GRAHAM ROAD
ITHACA, NY 14850

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD., SUITE 209
MASSAPEQUA PARK, NY 11762

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

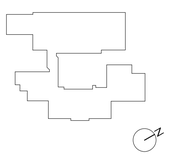
HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W. 34TH ST., 4TH FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE, SUITE 204
PELHAM, NY 10803
914.693.0221

SEAL

BID SET	01/03/2023
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

GENERAL INFORMATION

GR G001

LIFE SAFETY LEGEND

RW — RESCUE WINDOW

EGRESS PATH END / START

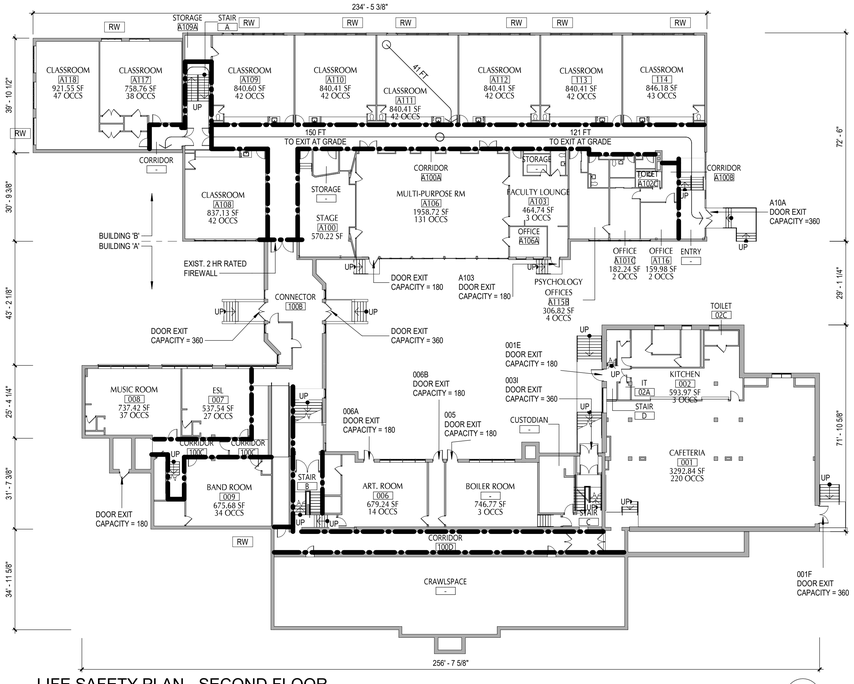
ONE-HOUR RATED PARTITION

2020 BUILDING CODE OF NEW YORK STATE ANALYSIS - CHAPTER 10 MEANS OF EGRESS

BC 1004.1	DESIGN OCCUPANT LOAD	IN DETERMINING MEANS OF EGRESS, THE NUMBER OF OCCUPANTS FOR WHOM MEANS OF EGRESS FACILITIES ARE PROVIDED SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION.
TABLE1004.5 OCC	MAX. FLOOR AREA PER OCC.	ACCESSORY STORAGE AREAS, MECHANICAL EQUIP. RM 300 SF. GROSS/ ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED 15 SF. NET / OCC. WITH FIXED SEATS (1004.4) INSTALLED SEATS BUSINESS AREAS 150 SF. GROSS/ CONCENTRATED BUSINESS AREAS > 50 SF/OCC EDUCATIONAL CLASSROOM AREA 20 SF. NET / OCC. SHOPS AND OTHER VOCATIONAL 50 SF. NET / OCC. EXERCISE ROOMS 50 SF. GROSS /
OCC..		LIBRARY READING ROOMS 50 SF. NET / OCC. STACK AREA 100 SF. GROSS/
OCC.		STAGES AND PLATFORMS 15 SF. NET / OCC.
BC 1004.7	OUTDOOR AREAS	YARD, PATIOS, OCCUPIED ROOFS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED ,MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD SHALL BE ASSIGNED BY THE BUILDING OFFICIAL.
BC 1005.3.1	STAIRWAYS	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.
BC 1005.3.2	OTHER EGRESS COMPONENTS	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.
TABLE 1006.2.1	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 75 FEET
TABLE 1006.3.1	MIN.NUMBER OF EXITS OR ACCESS TO EXITS PER STORY	OCCUPANT LOAD PER STORY MIN. NUMBER OF EXITS OR ACCESS TO EXITS 1-500 2 501-1,000 3 > 1,000 4
BC 1007.1.1	TWO EXITS OR EXIT	WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS [...] THE ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED IN A STRAIGHT LINE BETWEEN THEM.
BC 1007.1.2	THREE OR MORE EXITS OR	WHERE ACCESS TO THREE OR MORE EXITS IS REQUIRED [...] ADDITIONAL REQUIRED EXIT OR EXIT ACCESS DOORWAYS ACCESS DOORWAYS SHALL BE ARRANGED A REASONABLE DISTANCE A SHALL BE ARRANGED A REASONABLE DISTANCE APART SO THAT ONE BECOMES BLOCKED THE OTHERS WILL BE AVAILABLE.
BC 1008.1	MEANS OF EGRESS	ILLUMINATION SHALL BE PROVIDED IN THE MEANS OF EGRESS IN ACCORDANCE TO SECTION ILLUMINATION 1008.2 UNDER EMERGENCY POWER, MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH SECTION 1008.3.
BC 1009.1 BY	ACCESSIBLE MEANS OF EGRESS REQUIRED	[...] WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED [...] EACH ACCESSIBLE EGRESS REQUIRED PORTION OF THE SPACE SHALL BE SERVED NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS. EXCEPTION: 1. ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED TO PROVIDED IN EXISTING BUILDINGS.
TABLE 1017.2	EXIT ACCESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 200 FEET
TABLE 1020.1	CORRIDOR FIRE-RESISTANCE RATING	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 1 (HOUR)
BC 1020.4	DEAD ENDS	WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS WITH MORE THAN 20 FEET IN LENGTH.
BC 1028.1	EXIT DISCHARGE	EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER THE BUILDING.

LIFE SAFETY OCCUPANT LOAD SCHEDULE - SECOND FLOOR

NO.	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
001	CAFETERIA	Assembly, Unconcentraded (tables and chairs)	3292.84 SF	15	220
002	KITCHEN	Kitchen commercial	593.97 SF	200	3
-	CUSTODIAN	Accessory storage areas, mechanical equipment room	240.74 SF	300	1
-	BOILER ROOM	Accessory storage areas, mechanical equipment room	746.77 SF	300	3
006	ART. ROOM	Educational, Shops and other vocational room areas	679.24 SF	50	14
007	ESL	Educational, Classroom Area	537.54 SF	20	27
008	MUSIC ROOM	Educational, Classroom Area	737.42 SF	20	37
009	BAND ROOM	Educational, Classroom Area	675.68 SF	20	34
A109	CLASSROOM	Educational, Classroom Area	840.60 SF	20	42
A110	CLASSROOM	Educational, Classroom Area	840.41 SF	20	42
A111	CLASSROOM	Educational, Classroom Area	840.41 SF	20	42
A112	CLASSROOM	Educational, Classroom Area	840.41 SF	20	42
113	CLASSROOM	Educational, Classroom Area	840.41 SF	20	42
114	CLASSROOM	Educational, Classroom Area	846.18 SF	20	43
A115B	PSYCHOLOGY OFFICES	Business Areas	306.82 SF	100	4
A103	FACULTY LOUNGE	Kitchen commercial	464.74 SF	200	3
A106	MULTI-PURPOSE RM	Assembly, Unconcentraded (tables and chairs)	1958.72 SF	15	131
A100	STAGE	(none)	570.22 SF		
A106A	OFFICE	Business Areas	135.41 SF	100	2
A108	CLASSROOM	Educational, Classroom Area	837.13 SF	20	42
A117	CLASSROOM	Educational, Classroom Area	758.76 SF	20	38
A118	CLASSROOM	Educational, Classroom Area	921.55 SF	20	47
02A	IT	(none)	23.82 SF		
A101C	OFFICE	Business Areas	182.24 SF	100	2
-	ENTRY	(none)	254.68 SF		
-	STORAGE	Accessory storage areas, mechanical equipment room	71.93 SF	300	1
001	CAFETERIA	Assembly, Unconcentraded (tables and chairs)	50.50 SF	15	4
116D	ELEVATOR	(none)	58.39 SF		
TOTAL OCCUPANCY					866



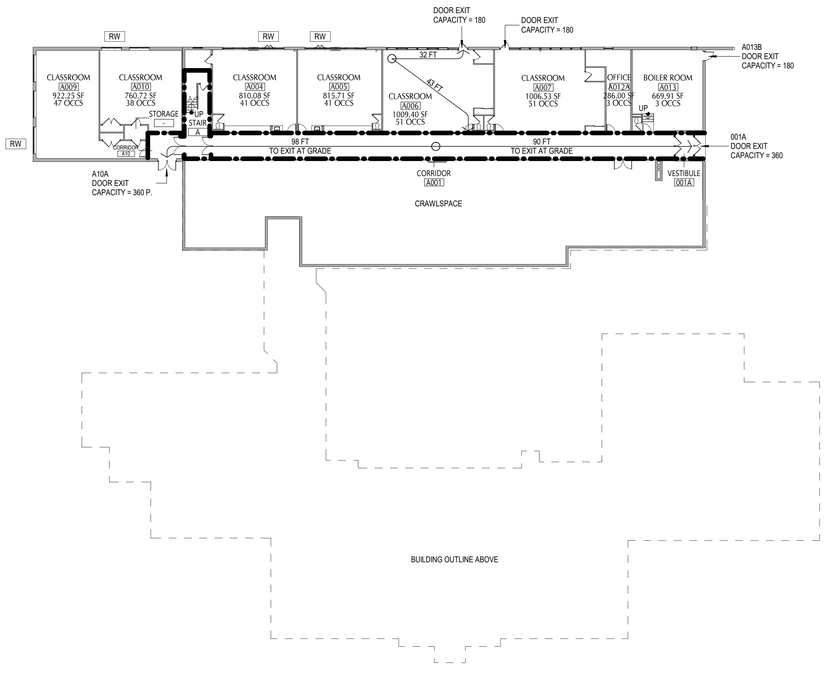
LIFE SAFETY PLAN - SECOND FLOOR

3/64" = 1'-0"

20

LIFE SAFETY OCCUPANT LOAD SCHEDULE - FIRST FLOOR

NO.	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
A004	CLASSROOM	Educational, Classroom Area	810.08 SF	20	41
A005	CLASSROOM	Educational, Classroom Area	815.71 SF	20	41
A006	CLASSROOM	Educational, Classroom Area	1009.40 SF	20	51
A007	CLASSROOM	Educational, Classroom Area	1006.53 SF	20	51
A013	BOILER ROOM	Accessory storage areas, mechanical equipment room	669.91 SF	300	3
A012A	OFFICE	Business Areas	286.00 SF	100	3
A010	CLASSROOM	Educational, Classroom Area	760.72 SF	20	38
A009	CLASSROOM	Educational, Classroom Area	922.25 SF	20	47
TOTAL OCCUPANCY					275



LIFE SAFETY PLAN - FIRST FLOOR

3/64" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

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GOLDSTICK LIGHTING DESIGN
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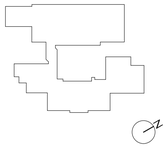
SEAL

ISSUE	DATE
BID SET	01/03/2023

KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

LIFE SAFETY PLAN - FIRST AND SECOND FLOOR

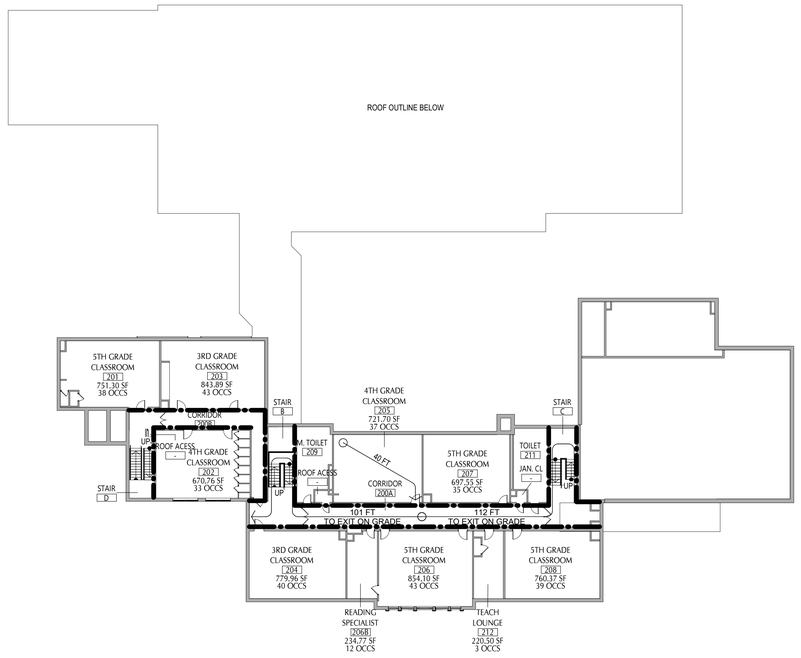
GR LS001

SHEET NOTES

KEY NOTES

LIFE SAFETY OCCUPANT LOAD SCHEDULE - FOURTH FLOOR

NO.	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
201	5TH GRADE CLASSROOM	Educational, Classroom Area	751.30 SF	20	38
202	4TH GRADE CLASSROOM	Educational, Classroom Area	670.76 SF	20	33
203	3RD GRADE CLASSROOM	Educational, Classroom Area	843.89 SF	20	43
204	3RD GRADE CLASSROOM	Educational, Classroom Area	779.96 SF	20	40
205	4TH GRADE CLASSROOM	Educational, Classroom Area	721.70 SF	20	37
206	5TH GRADE CLASSROOM	Educational, Classroom Area	854.10 SF	20	43
207	5TH GRADE CLASSROOM	Educational, Classroom Area	697.55 SF	20	35
208	5TH GRADE CLASSROOM	Educational, Classroom Area	760.37 SF	20	39
209	M. TOILET	(none)	279.58 SF		
206B	READING SPECIALIST	Educational, Classroom Area	234.77 SF	20	12
211	TOILET	(none)	281.83 SF		
212	TEACH LOUNGE	Business Areas	220.50 SF	100	3
-	JAN. CL	Accessory storage areas, mechanical equipment room	17.94 SF	300	1
-	ROOF ACESS	Accessory storage areas, mechanical equipment room	22.24 SF	300	1
-	ROOF ACESS	Accessory storage areas, mechanical equipment room	11.19 SF	300	
TOTAL OCCUPANCY					325



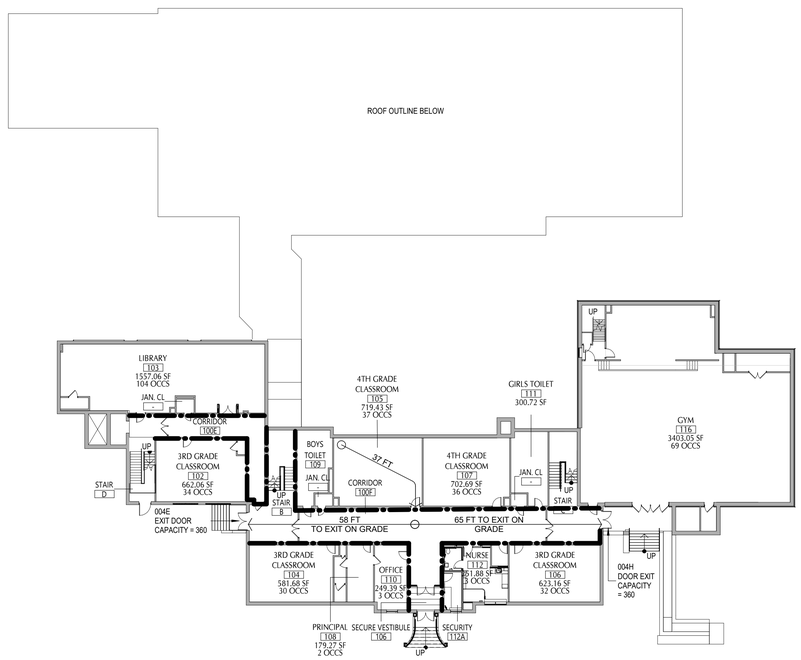
FOURTH FLOOR - LIFE SAFETY

3/64" = 1'-0"

30

LIFE SAFETY OCCUPANT LOAD SCHEDULE - THIRD FLOOR

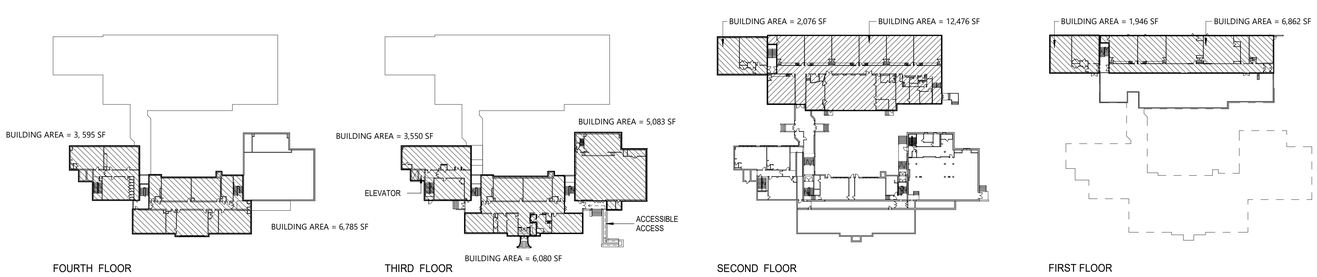
NO.	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
102	3RD GRADE CLASSROOM	Educational, Classroom Area	662.06 SF	20	34
103	LIBRARY	Assembly, Unconcentraded (tables and chairs)	1557.06 SF	15	104
104	3RD GRADE CLASSROOM	Educational, Classroom Area	581.68 SF	20	30
105	4TH GRADE CLASSROOM	Educational, Classroom Area	719.43 SF	20	37
106	3RD GRADE CLASSROOM	Educational, Classroom Area	623.16 SF	20	32
107	4TH GRADE CLASSROOM	Educational, Classroom Area	702.69 SF	20	36
108	PRINCIPAL	Business Areas	179.27 SF	100	2
110	OFFICE	Business Areas	249.39 SF	100	3
109	BOYS TOILET	(none)	280.15 SF		
112A	SECURITY	Business Areas	81.45 SF	100	1
112	NURSE	Business Areas	251.88 SF	100	3
111	GIRLS TOILET	(none)	300.72 SF		
116	GYM	Exercise rooms	3403.05 SF	50	69
106	SECURE VESTIBULE	(none)	96.15 SF		
112B	BATHROOM	(none)	47.75 SF		
-	JAN. CL	Accessory storage areas, mechanical equipment room	23.05 SF	300	1
-	JAN. CL	Accessory storage areas, mechanical equipment room	25.13 SF	300	1
-	JAN. CL	Accessory storage areas, mechanical equipment room	28.82 SF	300	1
-	CLOSET	Accessory storage areas, mechanical equipment room	13.94 SF	300	
116A	STAGE	Assembly, Unconcentraded (tables and chairs)	791.73 SF	15	53
116B	STORAGE	Accessory storage areas, mechanical equipment room	40.46 SF	300	1
115	ELEVATOR	(none)	58.39 SF		
112C	IT CLOSET	Accessory storage areas, mechanical equipment room	40.71 SF	300	1
TOTAL OCCUPANCY					409



THIRD FLOOR - LIFE SAFETY

3/64" = 1'-0"

10



BUILDING AREAS

1/64" = 1'-0"

12

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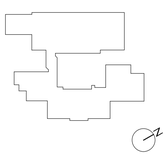

SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

LIFE SAFETY PLAN - THIRD AND FOURTH

GR LS002

ASBESTOS ABATEMENT
GENERAL NOTES

GENERAL NOTES:

1. ASBESTOS REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, GUIDELINES, REGULATIONS, ORDERS AND DIRECTIVES, INCLUDING, BUT NOT LIMITED TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), AND U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH), AND NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL).

2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, ETC., NECESSARY TO PERFORM THE WORK REQUIRED FOR ASBESTOS ABATEMENT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

3. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A WRITTEN STANDARD PROCEDURE FOR ABATEMENT WORK TO ENSURE MAXIMUM PROTECTION AND SAFEGUARD FROM ASBESTOS EXPOSURE OF THE WORKERS, VISITORS, EMPLOYEES, GENERAL PUBLIC, AND THE ENVIRONMENT.

4. THE CONTRACTOR SHALL PROVIDE SIGNS, LABELS, WARNINGS, AND POST INSTRUCTIONS THAT ARE NECESSARY TO PROTECT, INFORM AND WARN PEOPLE OF THE HAZARD FROM ASBESTOS EXPOSURE. POST IN A PROMINENT AND CONVENIENT PLACE FOR THE WORKERS A COPY OF THE LATEST APPLICABLE REGULATIONS FROM OSHA, EPA, NIOSH AND NYSDOL.

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.

6. THE CONTRACTOR SHALL RELOCATE ALL FURNITURE, LOCKERS, DESKS AND OTHER MISC. ITEMS IN AND OUT OF THE WORK AREAS TO ACCOMMODATE ASBESTOS REMOVAL ACTIVITIES.

7. THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL, WATER, AND WASTE CONNECTIONS, TIE-INS, EXTENSIONS, CONSTRUCTION MATERIALS, SUPPLIES, ETC. AS REQUIRED TO FACILITATE ASBESTOS REMOVAL.

8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRIC AND LIGHT THROUGHOUT THE WORK AREA(S) AS REQUIRED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.

9. THE CONTRACTOR SHALL ESTABLISH CRITICAL BARRIERS OVER ALL OPENINGS LOCATED INSIDE THE PARTICULAR WORK AREA AS WELL AS INSIDE THE SCHOOL.

10. THE CONTRACTOR SHALL PROPERLY PROTECT ALL CONTROLS, TUBING, ELECTRICAL PANELS, EQUIPMENT, ETC. WITHIN THE WORK AREA.

11. THE CONTRACTOR SHALL BE REQUIRED TO ISSUE NON-WHITE WORK COVERALLS FOR ALL ABATEMENT WORKERS.

12. THE CONTRACTOR SHALL EXERCISE EXTREME CARE AND CAUTION DURING ANY AND ALL DEMOLITION AND ABATEMENT OPERATIONS. THE CONTRACTOR SHALL CONDUCT REMOVAL OF ALL MATERIALS FROM THE SITE WITH MINIMUM DISTURBANCE; PROVIDE PROPER PROTECTION AND REGULAR MAINTENANCE OF ALL BUILDING PREMISES DIRECTLY OR INDIRECTLY ASSOCIATED WITH ABATEMENT OPERATIONS.

13. THE CONTRACTOR SHALL LOCATE AND SEAL ALL PENETRATIONS THROUGH WALLS BETWEEN THE WORK AREA AND ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO PIPE, DUCT, CONDUIT, CHASES, AND OPENINGS IN FIRE WALLS OR DECKS BETWEEN FLOORS AS REQUIRED BY THE FIELD CONDITIONS.

14. THE CONTRACTOR SHALL USE A WATER SPRAYER TO WET ASBESTOS-CONTAINING MATERIALS INSIDE THE WORK AREA.

15. THE CONTRACTOR SHALL CONSTRUCT A PERSONAL/WASTE DECONTAMINATION ENCLOSURE SYSTEM (P./W.D.E.S.) AS INDICATED. IT SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE STORAGE OF MATERIALS, EQUIPMENT, ETC.

16. SHOWER WATER AND WASTE WATER MUST BE FILTERED AND DISPOSED OF IN THE BUILDING'S SANITARY SYSTEM. REFER TO CONTRACT SPECIFICATIONS.

17. IF WATER IS NOT AVAILABLE, THE CONTRACTOR SHALL PROVIDE A 55-GALLON WATER TANK FOR THE DECONTAMINATION UNIT.

18. THE CONTRACTOR SHALL UTILIZE GFCI PANEL CONNECTIONS AT THE SOURCE OUTLET WHEN ACCESSING TEMPORARY POWER.

19. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY CONNECTIONS, FASTENERS, FLEXIBLE DUCTS, MANIFOLDS, SUPPORTS, ETC. ANY AND ALL INSTALLATIONS SHALL COMPLY WITH CONTRACT DOCUMENTS AND MANUFACTURER'S REQUIREMENTS.

20. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY WATER AND POWER SOURCES PRIOR TO ABATEMENT ACTIVITIES.

21. DEBRIS RESULTING FROM ANY DEMOLITION AND/OR ASBESTOS ABATEMENT ACTIVITIES SHALL BE DISPOSED OF AS ASBESTOS CONTAMINATED WASTE.

22. NO WASTE SHALL BE STORED ON SITE OR INSIDE THE DECONTAMINATION UNIT BETWEEN SHIFTS. WASTE SHALL BE DOUBLE BAGGED BEFORE PROCEEDING TO THE CONTAINER AND/OR DECON. BAGS WILL BE MOVED FROM WORK AREAS TO THE WASTE DECON AND SUBSEQUENTLY TO THE CONTAINER IN COVERED CARTS. BAGS WILL BE CARRIED BY HAND ONLY WHEN NECESSARY. ALL WASTE SHALL BE CONTAINERIZED AT THE END OF EACH WORK SHIFT BEFORE RELINQUISHING TO WASTE HAULER.

23. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM THE EXACT SCOPE OF WORK FOR EACH PHASE OF ABATEMENT WITH THE GENERAL CONTRACTOR AND OTHER TRADES.

24. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, TOOLS, TRANSPORTATION AND ANY OTHER EQUIPMENT REQUIRED AND/OR NECESSARY TO COMPLETE ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

25. THE LOCATION OF THE PERSONAL/WASTE DECONTAMINATION UNITS, AIRLOCKS, ETC. IS SHOWN FOR REFERENCE PURPOSES. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.

26. ASBESTOS ABATEMENT INDICATED IN THE DRAWING # H-002.00 WILL BE DONE IN ACCORDANCE WITH 12 NYCRR PART 56 AND SHALL BE PERFORMED BY A NYSDOL LICENSED ASBESTOS CONTRACTOR.

DRAWING	DRAWING NAME
H-001.00	ASBESTOS ABATEMENT - GENERAL NOTES
H-002.00	ASBESTOS ABATEMENT - THIRD FLOOR PLAN

PROJECT DESIGNER: STEVEN EGET NYS 06-06432

EASTCHESTER
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2022 CAPITAL BOND
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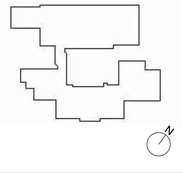
KEY PLAN



PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202.04

ASBESTOS
ABATEMENT
GENERAL NOTES

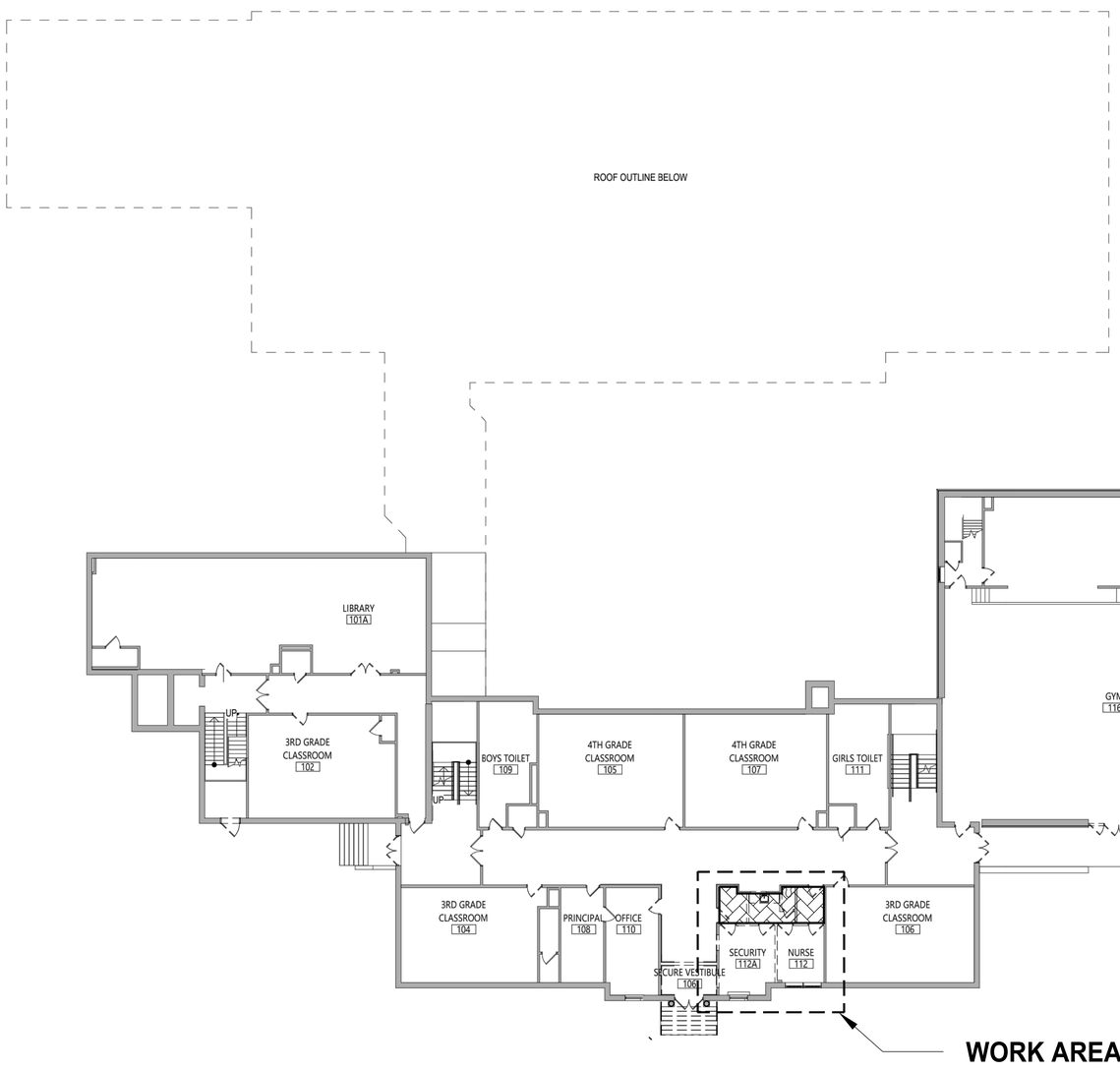
H-001.00

LEGEND

LOCATION OF ASBESTOS CONTAINING PIPE INSULATION LOCATED IN PLENUM AND BATHROOM CHASES.

WORK AREA BOUNDARY

TYPICAL DECONTAMINATION UNIT



THIRD FLOOR PLAN

3/32" = 1'-0"

1

WORK AREA #	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY (Square Feet – Linear Feet)	REMOVAL PROCEDURE
1	3RD FLOOR, PLENUMS AND BATHROOM CHASES	FITTING INSULATION	100 LF	NYS DOL 12 NYCRR PART 56 §7.11 TENT REMOVAL PROCEDURE
		PIPE INSULATION		

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EASTCHESTER UNION FREE SCHOOL DISTRICT

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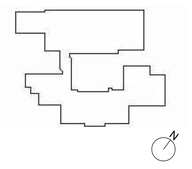

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ASBESTOS ABATEMENT THIRD FLOOR PLAN

H-002.00

SHEET NOTES

A. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION

B. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION

C. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS U.O.N.

D. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION

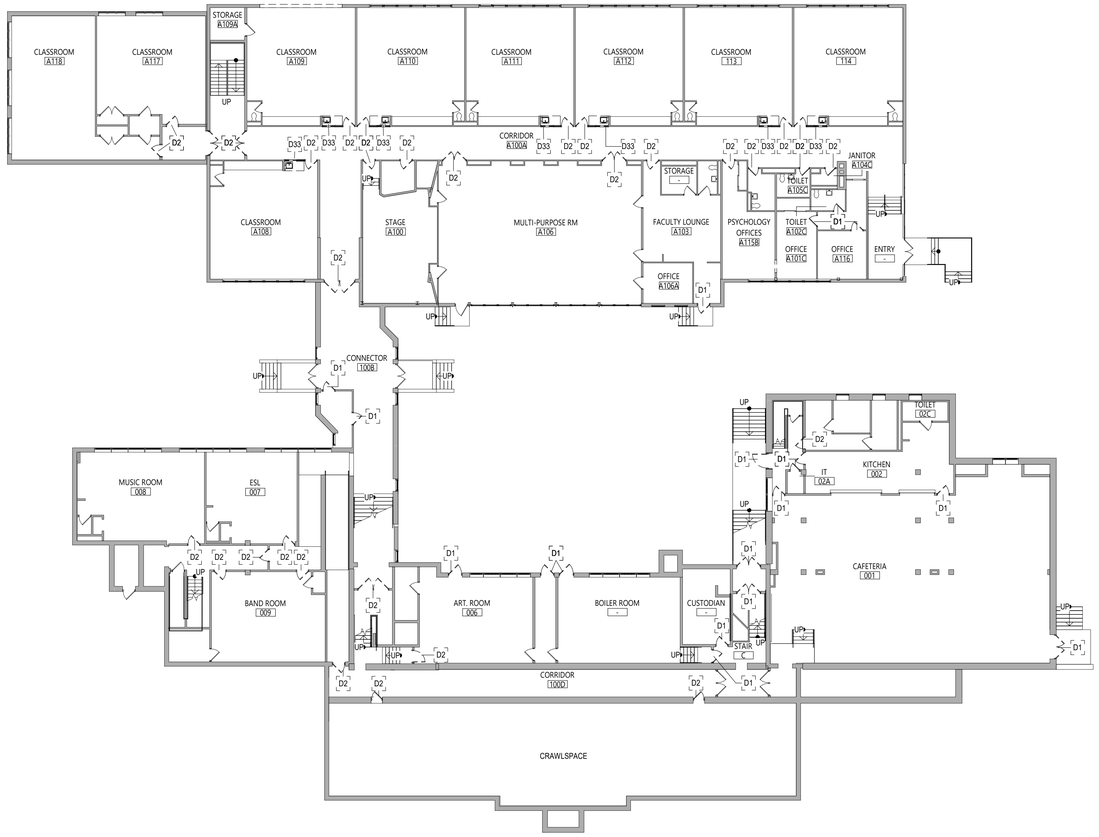
E. GC TO TEMPORARILY SUPPORT ABOVE CEILING INFRASTRUCTURE AFTER CEILING REMOVAL COORDINATE WITH OTHER TRADES

F. REMOVE AND REINSTALL EXISTING CONDUIT AND WIRING AROUND DOOR FRAME TO FACILITATE INSTALLATION OF NEW DOOR

G. PROVIDE MISC. GROUTING OF FRAMES AS NECESSARY

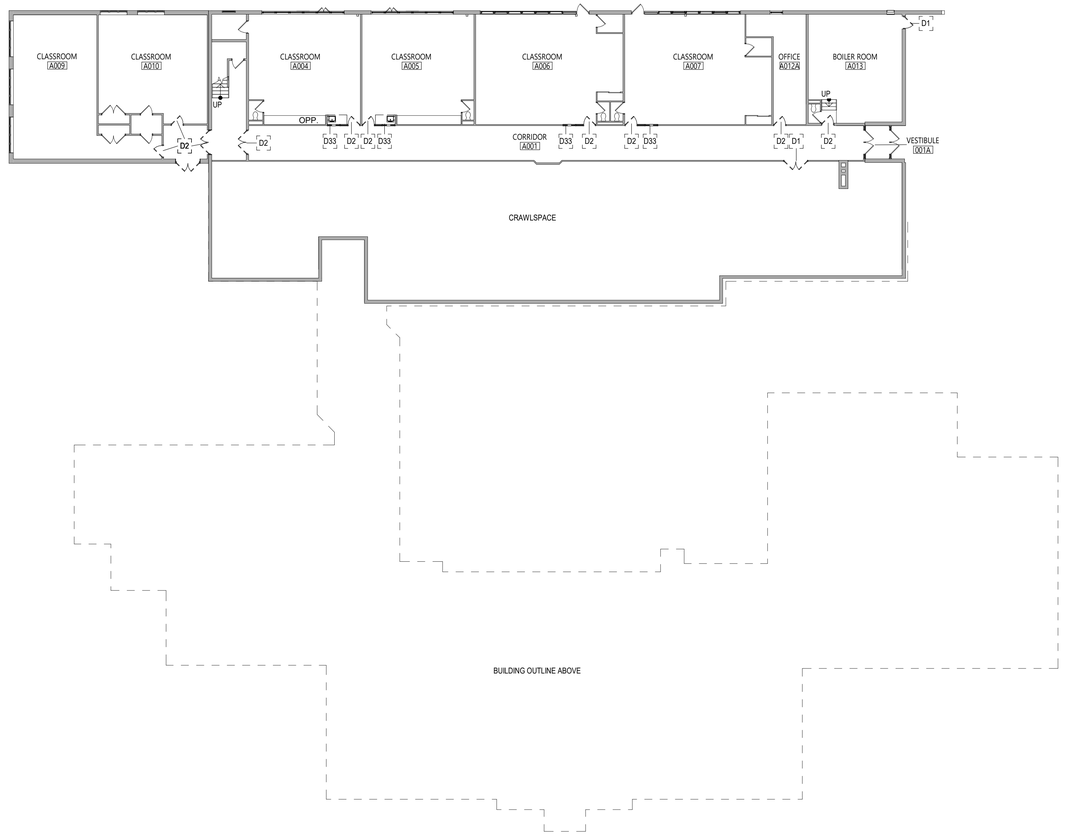
KEY NOTES

D1 REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY
D2 REMOVE DOOR AND HARDWARE, FRAME TO REMAIN
D33 REMOVE GLAZING FROM FRAME



DEMOLITION PLAN - SECOND FLOOR
1/16" = 1'-0"

13



DEMOLITION PLAN - FIRST FLOOR
1/16" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

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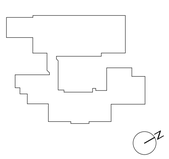

SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

DEMOLITION PLAN - FIRST AND SECOND FLOOR

GR AD101

SHEET NOTES

A. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION

B. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION

C. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS U.O.N.

D. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION

E. GC TO TEMPORARILY SUPPORT ABOVE CEILING INFRASTRUCTURE AFTER CEILING REMOVAL. COORDINATE WITH OTHER TRADES.

F. REMOVE AND REINSTALL EXISTING CONDUIT AND WIRING AROUND DOOR FRAME TO FACILITATE INSTALLATION OF NEW DOOR.

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KEY NOTES

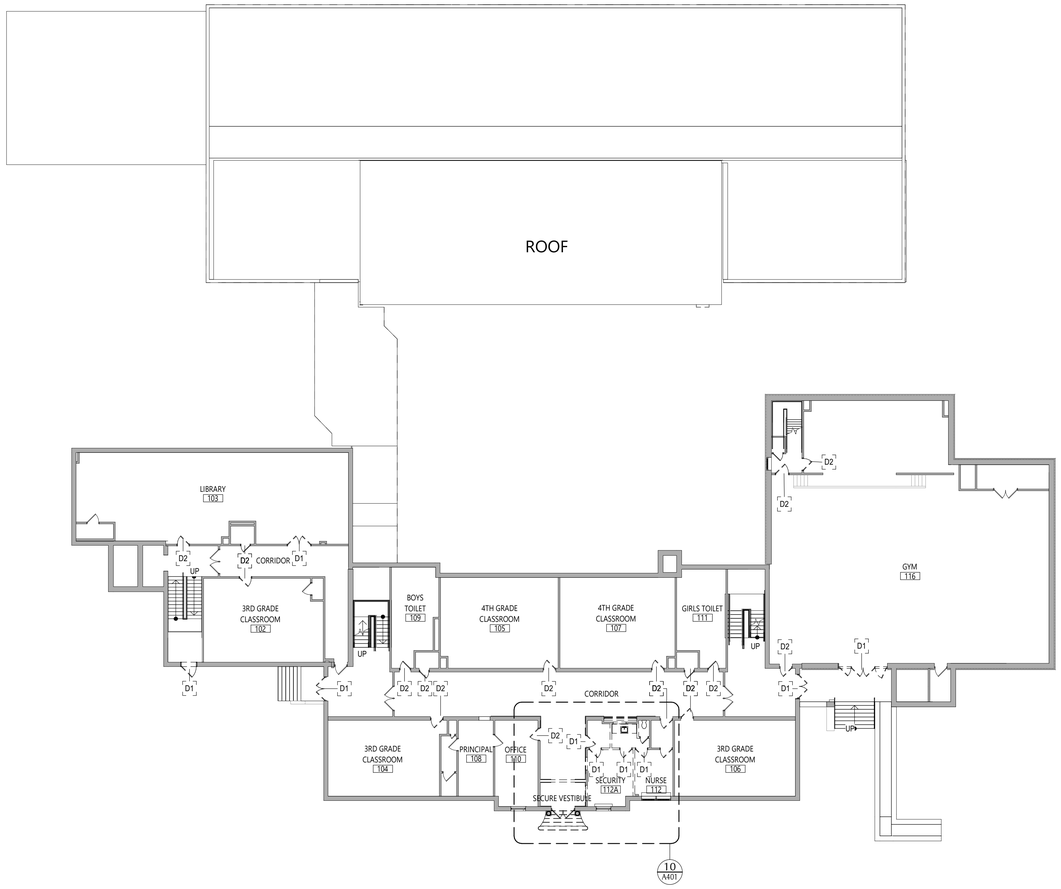
D1 REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY

D2 REMOVE DOOR AND HARDWARE, FRAME TO REMAIN

DEMOLITION PLAN - FOURTH FLOOR

1/16" = 1'-0"

13



DEMOLITION PLAN - THIRD FLOOR

1/16" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

GREENVALE ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
THE LA GROUP
179 GRAHAM ROAD
ITHACA, NY 14850

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD., SUITE 209
MASSAPEQUA PARK, NY 11762

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
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SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

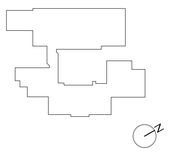
HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W. 34TH ST., 4TH FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE, #204
PELHAM, NY 10803
914.693.0221

SEAL

BID SET	01/03/2023
ISSUE	DATE

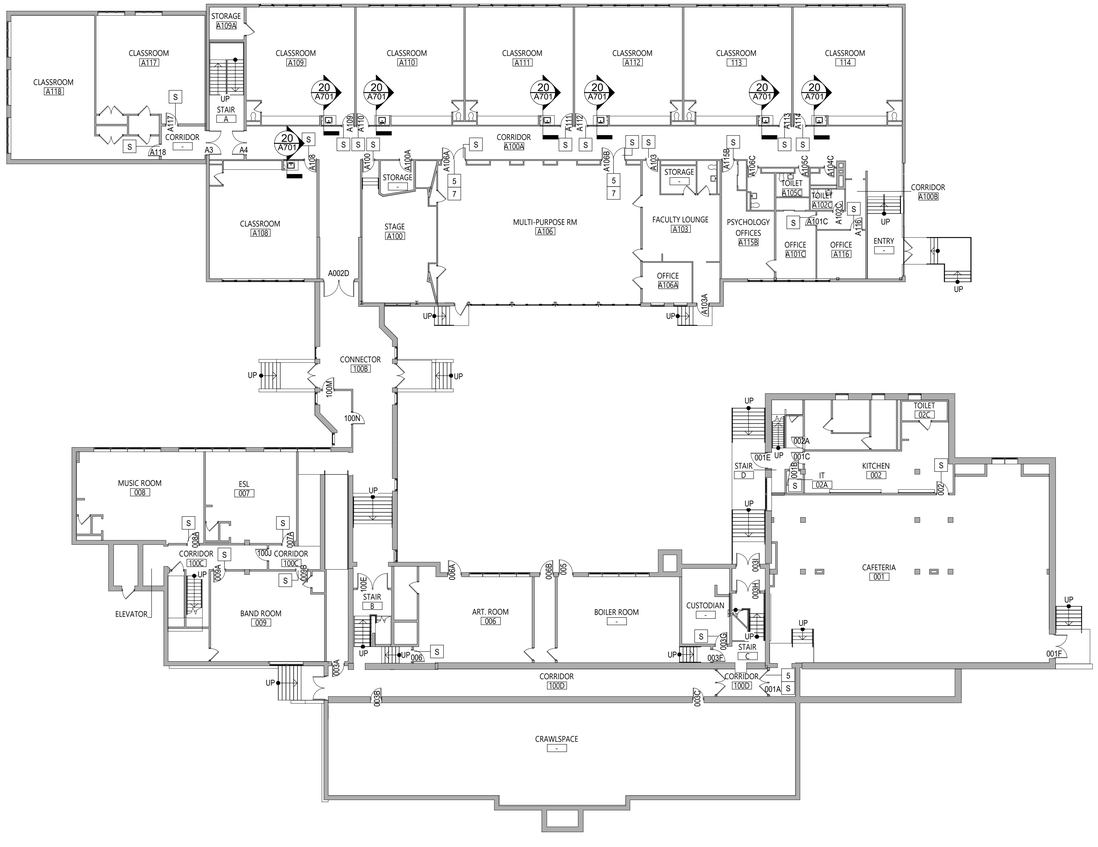
KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

DEMOLITION PLAN - THIRD AND FOURTH FLOOR

GR AD102



SHEET NOTES

A. DO NOT SCALE THE DRAWINGS, NOTIFY ARCHITECT OF MISSING DIMENSIONS OR DISCREPANCIES AND GET RESOLUTION BEFORE PROCEEDING.

B. ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED. WHEN ANY WORK IS PREFORMED ON PORTION OF AN EXISTING WALL THE ENTIRE WALL SURFACE IS TO BE PAINTED UNLESS OTHERWISE NOTED.

KEY NOTES

5	PROVIDE REMOVABLE INTERMEDIATE MULLION
7	PROVIDE GLAZING IN EXISTING FRAME. REFER TO 900 SERIES
S	SHELTER LOCKSET. REFER TO SPECIFICATIONS FOR MORE INFO. ALL SHELTER LOCK COMPONNENTS TO BE INSTALLED BY GC. THE GC WILL INSTALL ALL LOCKSETS. THE GC WILL TURN THE REPEATERS OVER TO THE ELECTRICAL CONTRACTOR WHO WILL INSTALL AND WIRE THE REPEATERS.

OVERALL PLAN - SECOND FLOOR

1/16" = 1'-0"

13

OVERALL PLAN - FIRST FLOOR

1/16" = 1'-0"

10

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KEY PLAN

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MEMASI PROJECT NO.	102-2202

OVERALL PLAN - FIRST AND SECOND FLOOR

GR A101

SHEET NOTES

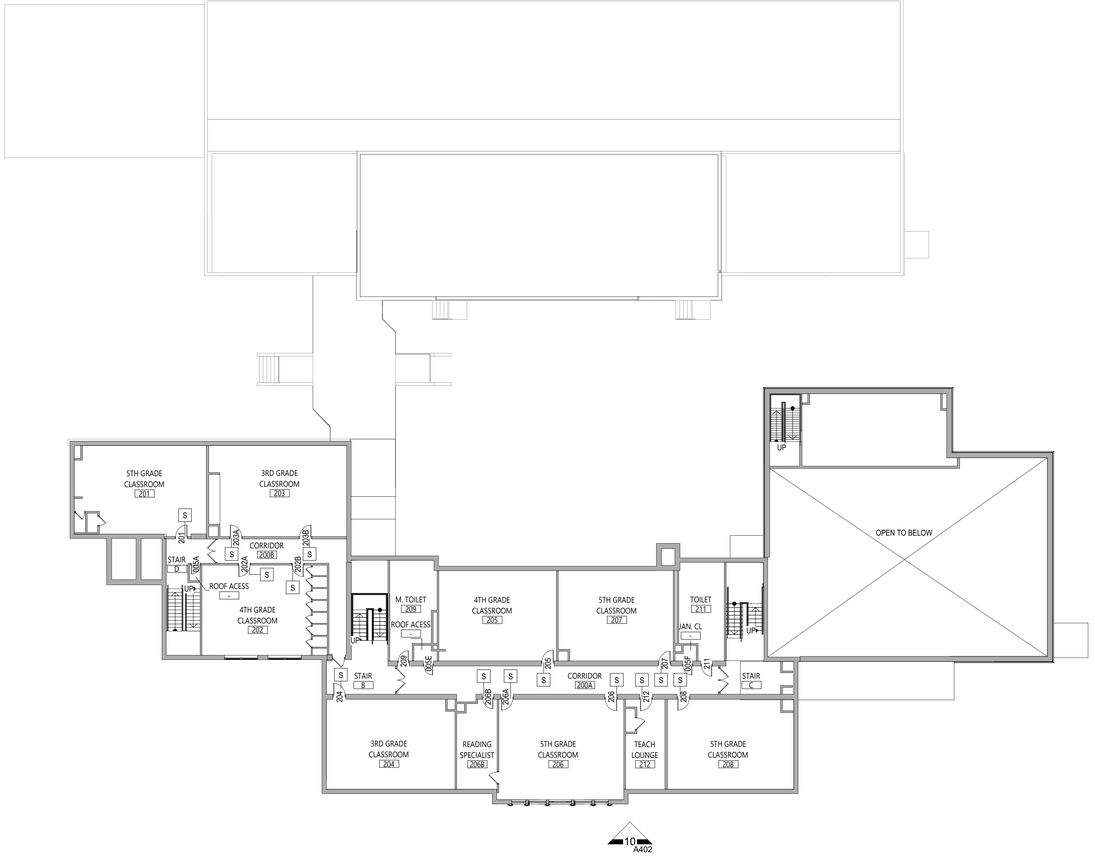
A. DO NOT SCALE THE DRAWINGS, NOTIFY ARCHITECT OF MISSING DIMENSIONS OR DISCREPANCIES AND GET RESOLUTION BEFORE PROCEEDING.

B. ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED. WHEN ANY WORK IS PREFORMED ON PORTION OF AN EXISTING WALL THE ENTIRE WALL SURFACE IS TO BE PAINTED UNLESS OTHERWISE NOTED.

KEY NOTES

5 PROVIDE REMOVABLE INTERMEDIATE MULLION

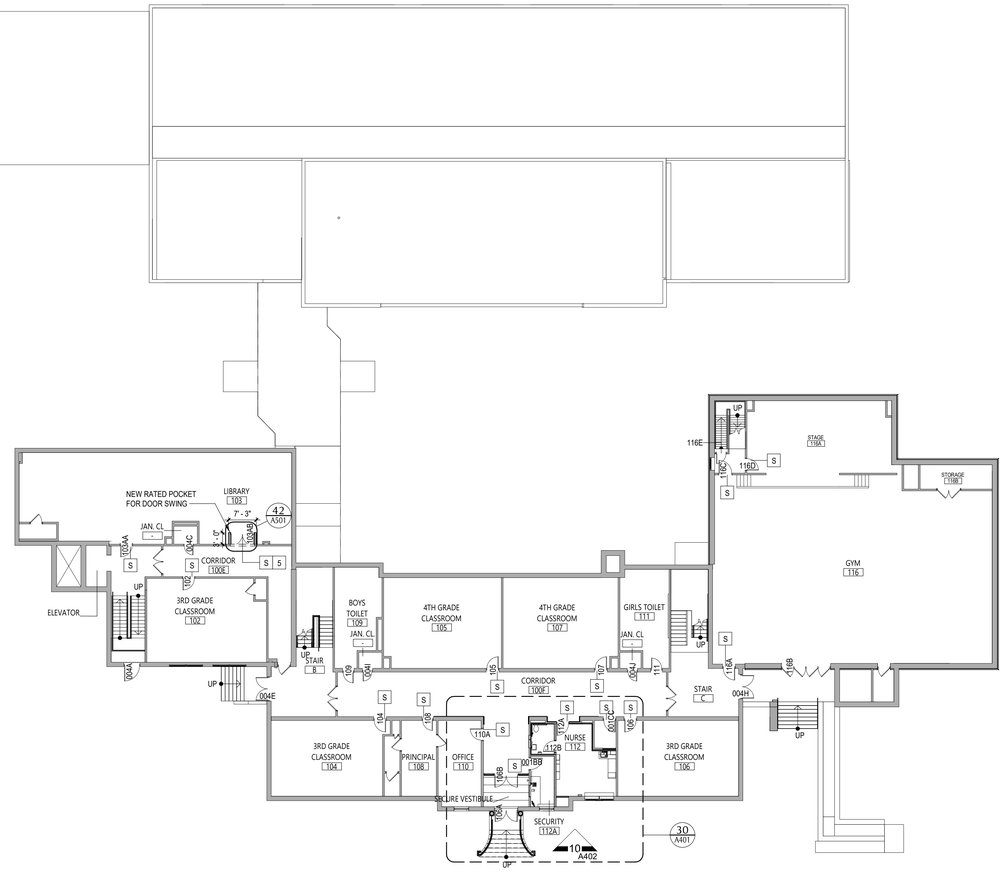
S SHELTER LOCKSET. REFER TO SPECIFICATIONS FOR MORE INFO. ALL SHELTER LOCK COMPONENTS TO BE INSTALLED BY GC. THE GC WILL INSTALL ALL LOCKSETS. THE GC WILL TURN THE REPEATERS OVER TO THE ELECTRICAL CONTRACTOR WHO WILL INSTALL AND WIRE THE REPEATERS.



OVERALL PLAN - FOURTH FLOOR

1/16" = 1'-0"

13



OVERALL PLAN - THIRD FLOOR

1/16" = 1'-0"

10

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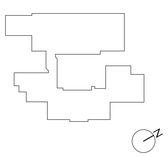
KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

OVERALL PLAN - THIRD AND FOURTH FLOOR

GR A102

SHEET NOTES

A. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION. DIMENSIONS FOR DEMOLITION OR SAWCUTS ARE INDICATIVE OF WORK TO BE INSTALLED, GC TO VERIFY ACTUAL REMOVAL DIMENSIONS FOR INSTALLATION OF NEW WORK, INCLUDING AND NOT LIMITED TO LINTELS OR BLOCKING.

B. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION

C. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS. U.O.N.

D. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION

E. GC TO TEMPORARILY SUPPORT ABOVE CEILING INFRASTRUCTURE AFTER CEILING REMOVAL. COORDINATE WITH OTHER TRADES.

F. GC TO PROVIDE NEW STL LINTELS IN ALL NEW OPENINGS IN EXISTING MASONRY WALLS. GC TO TEMPORARILY SUPPORT ALL NEW WALL OPENINGS DURING CONSTRUCTION.

G. DO NOT SCALE THE DRAWINGS, NOTIFY ARCHITECT OF MISSING DIMENSIONS OR DISCREPANCIES AND GET RESOLUTION BEFORE PROCEEDING.

H. ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED. WHEN ANY WORK IS PREFORMED ON PORTION OF AN EXISTING WALL THE ENTIRE WALL SURFACE IS TO BE PAINTED UNLESS OTHERWISE NOTED.

I. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK

J. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED TOE KICK SPACES AND EXPOSED END PANELS

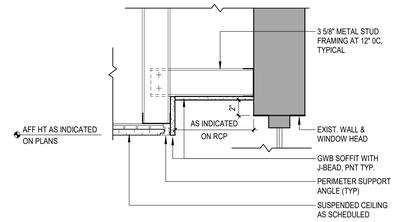
K. REPAIR PLASTER AS A RESULT OF REMOVALS AND NEW WORK. RESURFACE THE ENTIRE LENGTH OF THE PLASTER WALL, ENTIRE LENGTH OF THE PLASTER WALL, ENTIRE WINDOW OPENING AND SURROUND WITH A 1/8" TWO-COAT VENEER. BASIS OF DESIGN IS USG DIAMOND VENEER BASECOAT AND VENEER FINISH. INSTALLATION SHALL MEET THE REQUIREMENTS OF USG-SA920 "PLASTER SYSTEMS", "DIAMOND BRAND VENEER FINISH SYSTEMS"

KEY NOTES

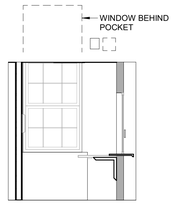
D1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY
D5	SAWCUT AND REMOVE MASONRY WALL FOR EXTENT SHOWN, COORDINATE REMOVAL WITH NEW WORK.
D6	REMOVE STUD PARTITION IN ITS ENTIRETY
D12	REMOVE EXISTING PLASTER CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO MEP DRAWINGS FOR EQUIPMENT REMOVALS
D14	REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE. REFER TO MEP DRAWINGS FOR ADDITIONAL REMOVALS
D21	REMOVE PLUMBING FIXTURE, SEE PLUMBING DRAWINGS FOR MORE INFO.
D24	REMOVE TERRAZZO FLOORING
DR	DUPLEX RECEPTACLE
EHD	ELECTRIC HAND DRYER
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
SD	SOAP DISPENSER (SUPPLIED BY OWNER)
SH	SWITCH.
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER)
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS

CASEWORK NOTES

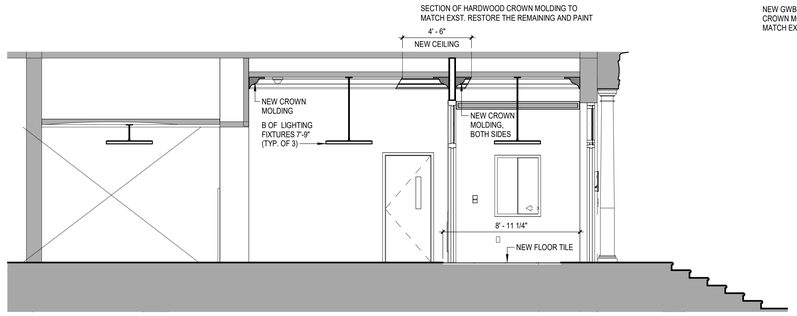
XX.XX — HEIGHT OF CASEWORK
XXXX — WIDTH OF CASEWORK
AWI DESIGN NUMBER OR SHELDON LABS DESIGN NUMBER OR WENGER DESIGN NUMBER



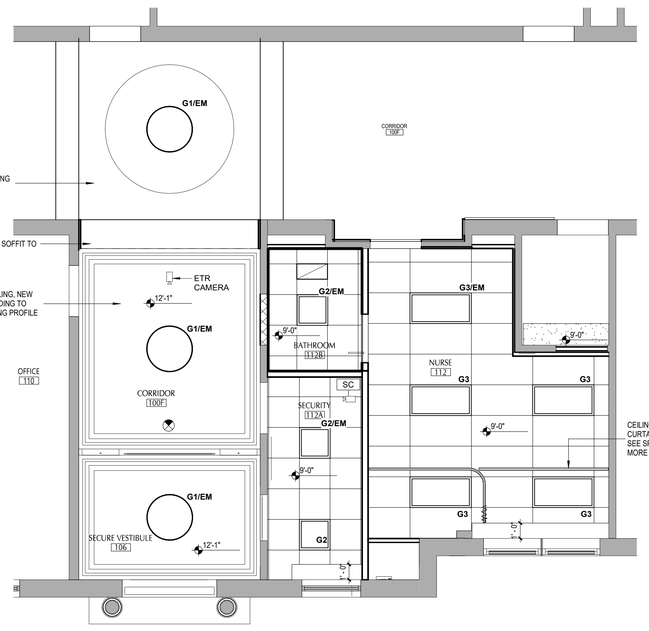
SOFFIT DETAIL 40
1 1/2" = 1'-0"



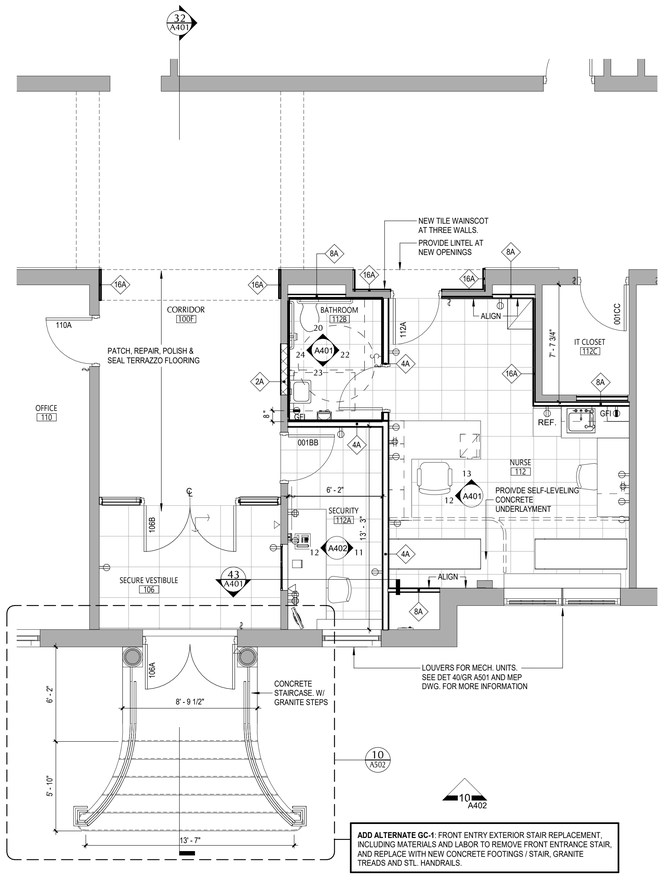
SECTION AT TRANSACTION WINDOW 43
1/4" = 1'-0"



VESTIBULE SECTION 32
1/4" = 1'-0"

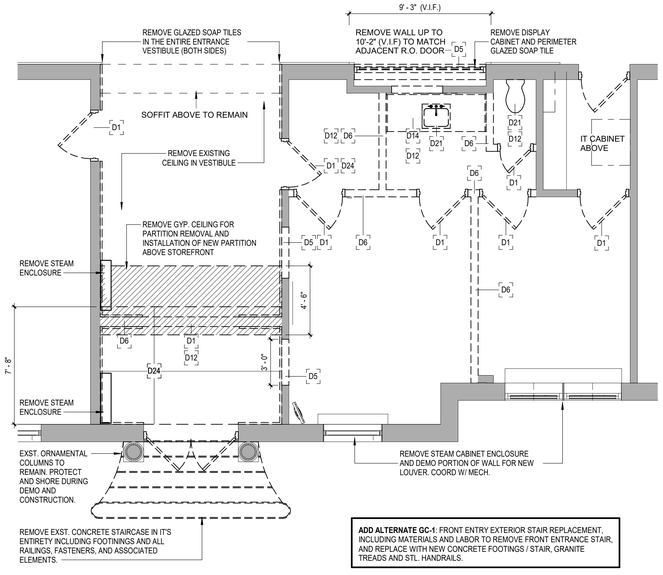


REFLECTED CEILING PLAN 31
1/4" = 1'-0"

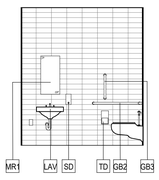


ENLARGED PLAN - MAIN ENTRY 30
1/4" = 1'-0"

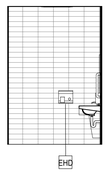
SPECIALTY EQUIPMENT SCHEDULE - SECURITY					
KEY	QTY.	NAME	COMMENTS	PROVIDED BY	REQUIREMENTS
C	1	CLOCK	SECURITY DEVICE		
CR	2	CARD READER	SECURITY DEVICE		
DR	2	UNDERCOUNTER DOOR RELEASE BUTTON	SECURITY DEVICE	FOR COORDINATION - ELECTRICAL CONTRACT	
EP	1	EMERGENCY PHONE	SECURITY DEVICE		OWNER
IC	2	INTERCOM STATION	SECURITY DEVICE		OWNER
LD	2	FSS	SECURITY DEVICE	FOR COORDINATION - ELECTRICAL CONTRACT	
LP	1	PRINTER LABEL BADGE	SECURITY DEVICE		OWNER
PB	1	PANIC BUTTON	SECURITY DEVICE	FOR COORDINATION - ELECTRICAL CONTRACT	
SC	1	SECURITY CAMERA	SECURITY DEVICE		
WKS	1	WORKSTATION	SECURITY DEVICE		OWNER



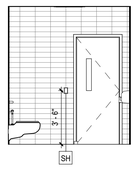
DEMOLITION PLAN - MAIN ENTRY 10
1/4" = 1'-0"



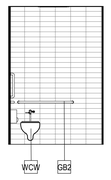
112B BATHROOM WEST EL. 24
1/4" = 1'-0"



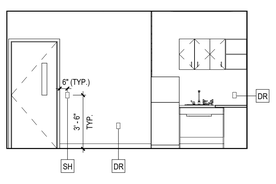
112B BATHROOM SOUTH EL. 23
1/4" = 1'-0"



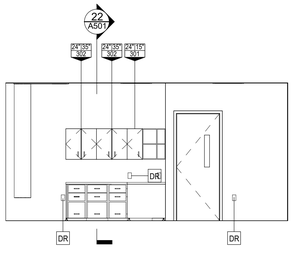
112B BATHROOM EAST EL. 22
1/4" = 1'-0"



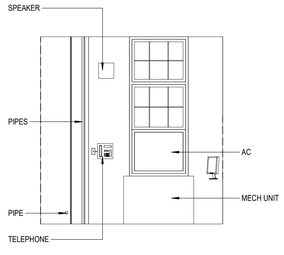
112B BATHROOM NORTH EL. 20
1/4" = 1'-0"



NURSE 112 NORTH EL. 13
1/4" = 1'-0"



NURSE 112 WEST EL. 12
1/4" = 1'-0"



112 NURSE SOUTH DEMO EL. 11
1/4" = 1'-0"

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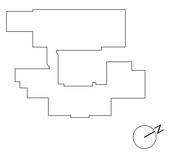

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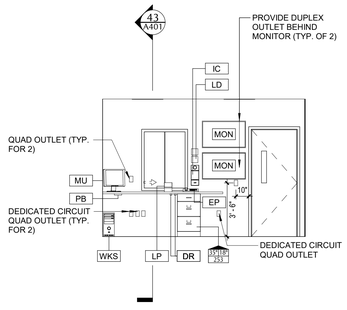
MAIN ENTRY

GR A401

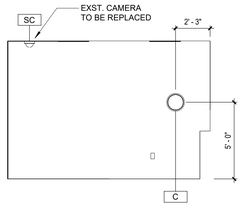
SHEET NOTES

KEY NOTES



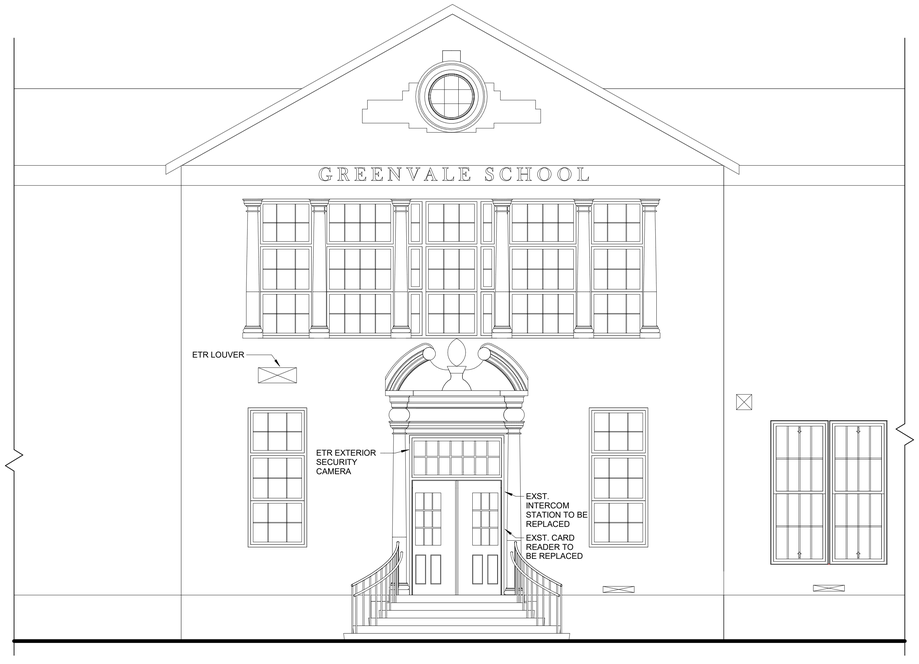
SECURITY 112A WEST EL. 12

1/4" = 1'-0"



SECURITY 112A - EAST ELEVATION 11

1/4" = 1'-0"



EXTERIOR - SOUTH ELEVATION 10

1/4" = 1'-0"

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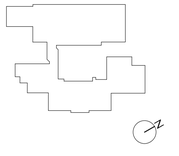

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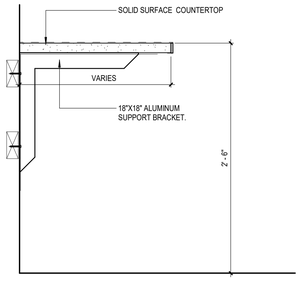
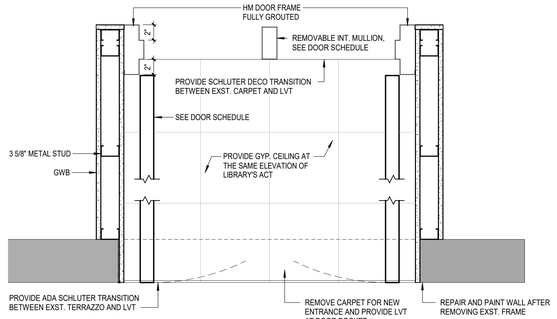
MAIN ENTRY ELEVATION

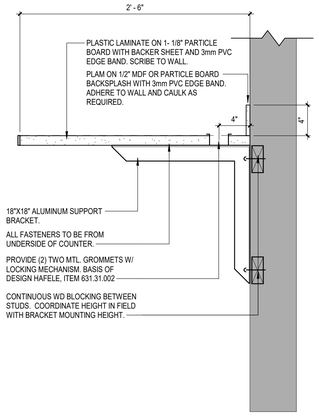
GR A402



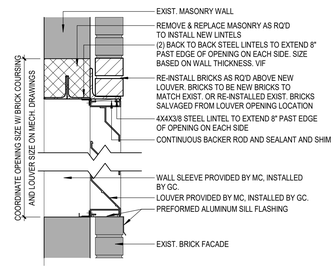
NURSES OFFICE COUNTER
1 1/2" = 1'-0" — 43



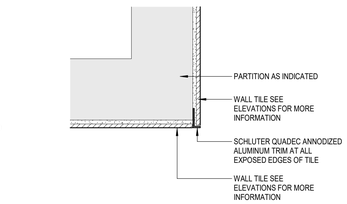
NEW LIBRARY PARTITION DOOR DETAIL
1 1/2" = 1'-0" — 42



DETAIL WALL HUNG COUNTER
1 1/2" = 1'-0" — 41

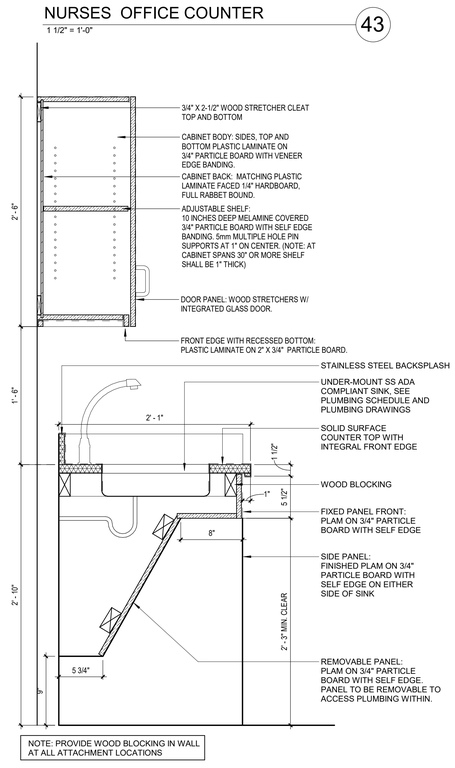


TYP. DETAIL AT NEW LOUVER
1 1/2" = 1'-0" — 40

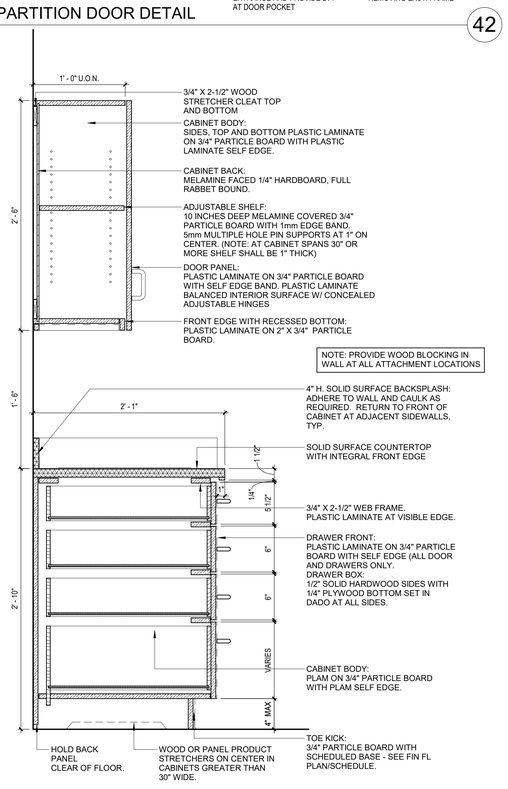


SHADE POCKET DETAIL
1 1/2" = 1'-0" — 31

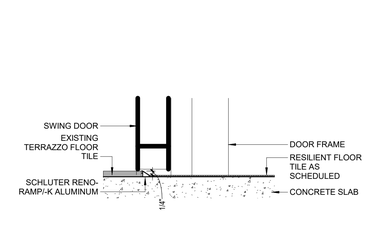
TILE CORNER TYP DETAIL
3" = 1'-0" — 30



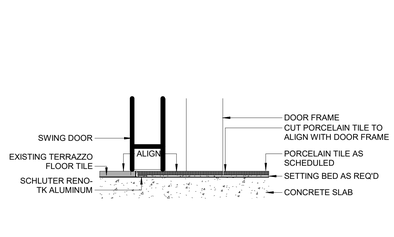
NURSES OFFICE ADA SINK CABINET
1 1/2" = 1'-0" — 23



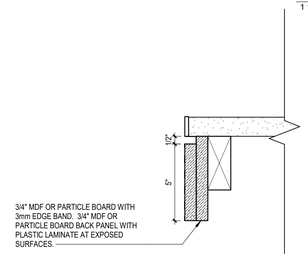
BASE AND UPPER CABINET DETAIL
1 1/2" = 1'-0" — 22



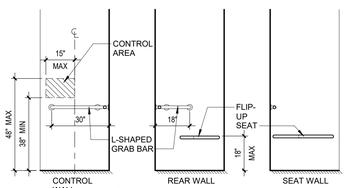
TERRAZZO TO RESILIENT
3" = 1'-0" — 21



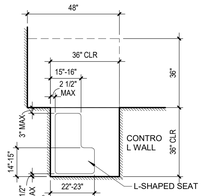
TERRAZZO TO TILE
3" = 1'-0" — 20



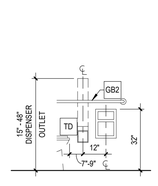
DETAIL WALL HUNG COUNTER LIP
3" = 1'-0" — 11



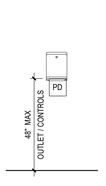
SHOWER COMPARTMENT ELEVATIONS



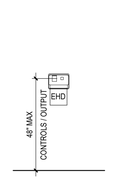
SHOWER COMPARTMENT PLAN



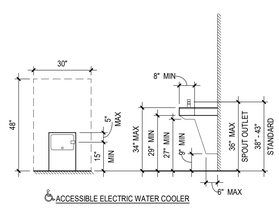
SANITARY NAPKIN RECEPTACLE



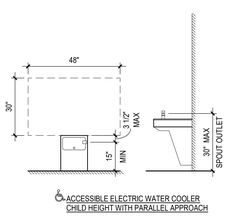
PAPER TOWEL DISPENSER



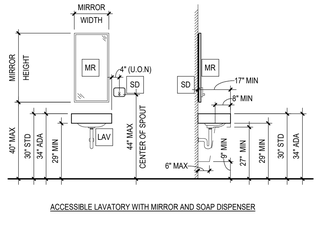
ELECTRIC HAND DRYER



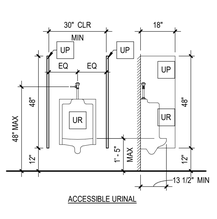
ACCESSIBLE ELECTRIC WATER COOLER



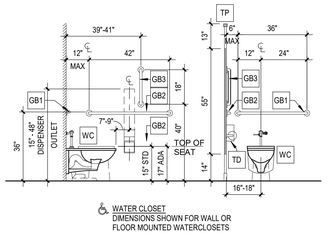
ACCESSIBLE ELECTRIC WATER COOLER CHILD HEIGHT WITH PARALLEL APPROACH



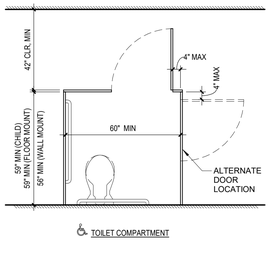
ACCESSIBLE LAVATORY WITH MIRROR AND SOAP DISPENSER



ACCESSIBLE URINAL



WATER CLOSET DIMENSIONS SHOWN FOR WALL OR FLOOR MOUNTED WATERCLOSETS



TOILET COMPARTMENT

PLUMBING FIXTURE ELEVATIONS
3/8" = 1'-0" — 10

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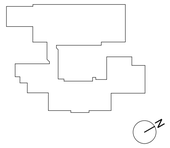
BID SET	01/03/2023
ISSUE	DATE

KEY PLAN



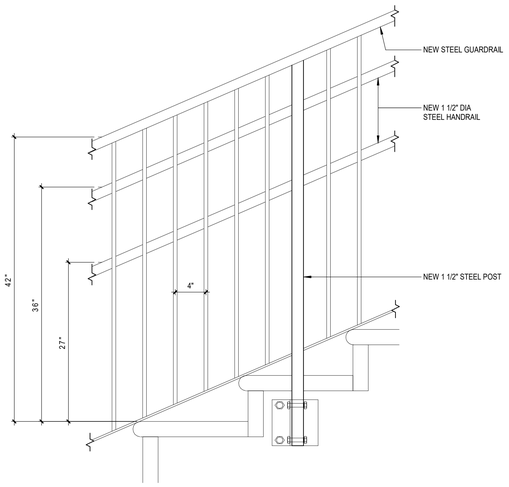
SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

DETAILS

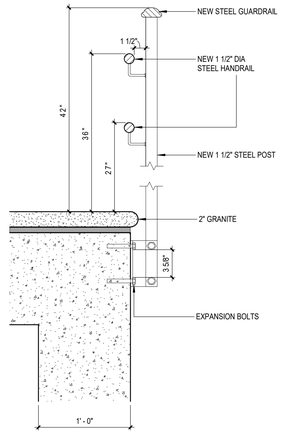
GR A501

SHEET NOTES

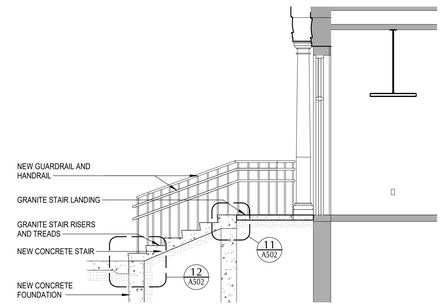
KEY NOTES



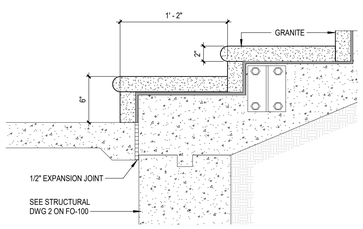
STAIR RAILING DETAIL
1 1/2" = 1'-0"
22



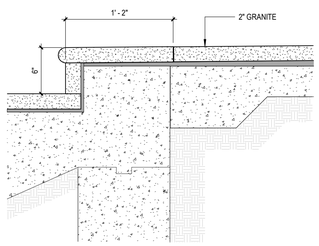
STAIR HAND RAILING DETAIL
1 1/2" = 1'-0"
21



NEW STAIR SECTION
1/4" = 1'-0"
20

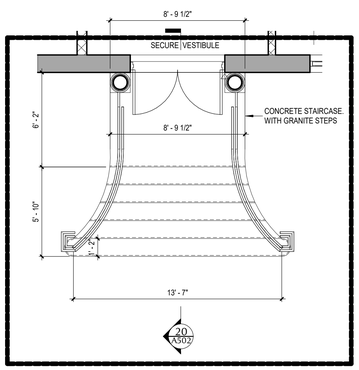


STAIR DETAIL
1 1/2" = 1'-0"
12



STAIR DETAIL
1 1/2" = 1'-0"
11

ADD ALTERNATE GC-1: FRONT ENTRY EXTERIOR STAIR REPLACEMENT, INCLUDING MATERIALS AND LABOR TO REMOVE FRONT ENTRANCE STAIR, AND REPLACE WITH NEW CONCRETE FOOTINGS / STAIR, GRANITE TREADS AND STL. HANDRAILS.



ENLARGED PLAN - MAIN STAIR ENTRY
1/4" = 1'-0"
10

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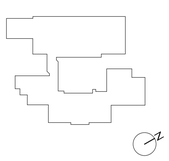

SED PROJECT NO.	66-03-01-03-0-006-015
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MAIN ENTRY STAIR DETAIL

GR A502

PARTITION NOTES

1A — PARTITION TYPE NUMBER

	NOM. CMU SIZE	STC RATING	FIRE RATING	SIDE ONE FINISH
			TEST DESIGN	SIDE TWO FINISH

GENERAL PARTITION NOTES

1. THIS PARTITION TYPE SCHEDULE IS GENERIC IN NATURE. NOT ALL OF THE PARTITION TYPES ILLUSTRATED ON THIS SHEET HAVE BEEN UTILIZED IN THIS PROJECT. SEE FLOOR PLANS FOR LOCATIONS OF PARTITION TYPES USED.
2. ALL INTERIOR PARTITIONS INDICATED ON THE FLOOR PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY PARTITION SHOWN ON THE FLOOR PLANS WITHOUT A PARTITION TAG. THE ARCHITECT WILL DETERMINE THE PARTITION TYPE TO BE USED AT SUCH LOCATIONS.

FIRE RATED SYSTEMS

1. PROVIDE FIRE RATED JOINT SYSTEMS AT ALL INTERSECTIONS OF FIRE RATED PARTITION ASSEMBLIES AND FIRE RATED FLOOR/ROOF ASSEMBLIES. THE FIRE RATED JOINT SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE PARTITION IN WHICH IT IS BEING USED. THIS JOINT SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
2. PROVIDE THROUGH-PENETRATION FIRE STOP SYSTEM AT ALL PENETRATIONS THROUGH FIRE RATED PARTITION, FLOOR AND ROOF ASSEMBLIES. THE THROUGH-PENETRATION FIRE STOP SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE ASSEMBLY THAT IT IS BEING USED IN. THIS FIRE STOP SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
3. ANY PRODUCT THAT EMITS ODOR MUST MEET THE REQUIREMENTS OF THE NEW YORK STATE EDUCATION DEPARTMENT.
4. CONCEALED VERTICAL SPACES IN PARTITIONS SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL, OR FIRE-STOPPED AT EACH FLOOR LEVEL AND AT THE CEILING OF THE UPPERMOST STORY, SO THAT SUCH SPACES WILL NOT BE CONTINUOUS FOR MORE THAN ONE STORY, OR COMMUNICATE WITH CONCEALED HORIZONTAL SPACES IN THE FLOOR OR ROOF CONSTRUCTION.
5. ALL PARTITION TYPE DIAGRAMS ARE GRAPHICAL IN NATURE. IN THE CASE WHERE A DIAGRAM DOES NOT SHOW ALL MATERIALS REQUIRED BY A FIRE-RATED PARTITION, THE PARTITION TYPE DESCRIPTION GOVERNS.

CMU WALL SYSTEMS

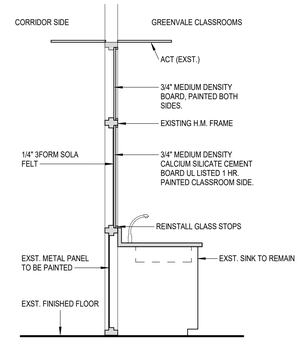
1. ALL PLAN DIMENSIONS ARE TO FACE OF CMU, UNLESS NOTED OTHERWISE.
2. PROVIDE HORIZONTAL JOINT REINFORCEMENT EVERY OTHER CMU COURSE.
3. PROVIDE (2) VERTICAL #4 BARS IN FULLY GROUTED CORES AT THE FOLLOWING LOCATIONS:
   A) PARTITION INTERSECTIONS (REINFORCE FULL HEIGHT)
   B) DOOR OPENINGS (REINFORCE FULL HEIGHT OFDOOR)
   C) WINDOW OPENINGS (REINFORCE FLOOR TO WINDOW HEAD)
   D) WALL ENDS (REINFORCE FULL HEIGHT)
4. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REINFORCING AND ANCHORING REQUIREMENTS.
5. PROVIDE BULLNOSE MASONRY UNITS ON ALL OUTSIDE CORNERS OF WALLS UNLESS NOTED OTHERWISE.

METAL STUD PARTITION AND CEILING SYSTEMS

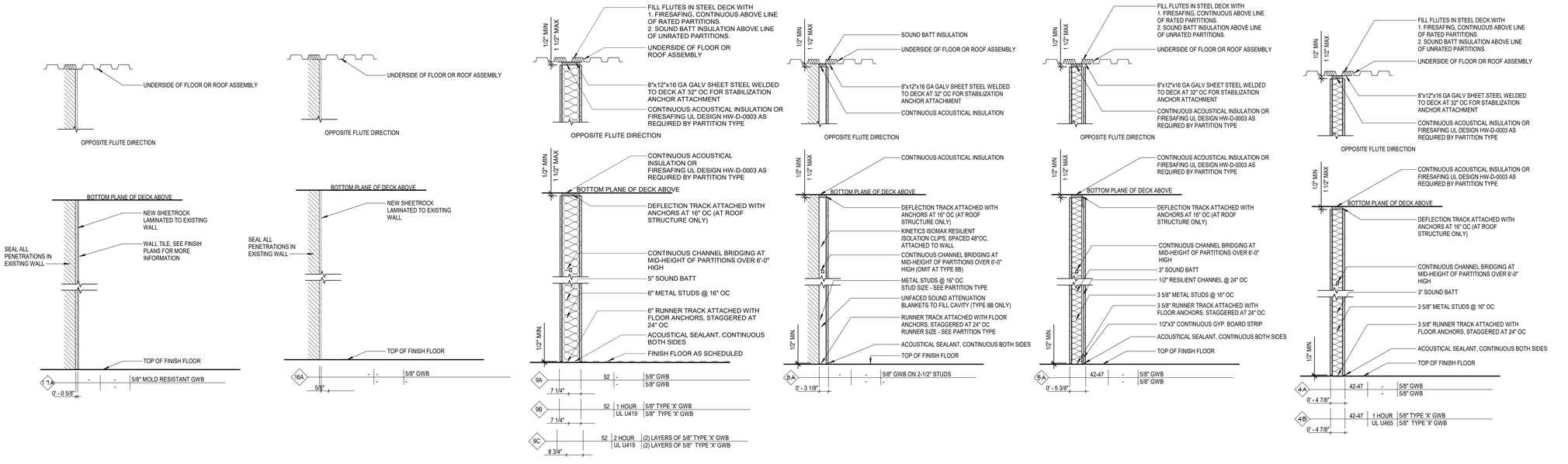
1. ALL DIMENSIONS ARE TO THE FACE OF METAL STUDS UNLESS NOTED OTHERWISE.
2. PROVIDE METAL BRACING AT THIRD POINTS AT THE INTERIOR OF METAL STUD CHASE PARTITIONS. BRACING SHALL NOT EXCEED 48" OC.
3. PROVIDE METAL L.C. BEAD, BACKER ROD AND SEALANT AT THE INTERSECTION OF GYP BD PARTITIONS AND MASONRY PARTITIONS.
4. PROVIDE ACOUSTICAL SEALANT IN THE FOLLOWING LOCATIONS:
   A) PERIMETER OF PARTITIONS
   B) RUNNERS
   C) ELECTRICAL OUTLETS
   D) PARTITION PENETRATIONS AND OPENINGS
5. PROVIDE BLOCKING WITHIN PARTITIONS TO SUPPORT PARTITION MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES. COORDINATE WITH CABINETRY DETAILS AND MEP DRAWINGS.
6. ALL INTERIOR METAL STUDS AND METAL FURRING AT PARTITIONS ARE 20 GAUGE UNLESS OTHERWISE NOTED. ALL INTERIOR METAL STUDS AND FURRING FOR CEILING SOFFITS ARE 25 GAUGE UNLESS NOTED OTHERWISE.
7. ANCHOR INSULATION TO STUD SYSTEM WITH WIRE SUPPORT SYSTEM IF INSULATION IS NOT SUPPORTED ON BOTH SIDES BY GYPSUM BOARD. WHERE DOUBLE STUD PARTITIONS ARE USED TO FORM CHASE PARTITIONS ONLY PROVIDE SOUND ATTENUATION BLANKETS ON ONE SIDE OF CHASE
8. GYPSUM BOARD SCHEDULE
   - 5/8" TYPE "X" GYPSUM BOARD UNLESS NOTED OTHERWISE.
   - CORRIDOR AND STUDENT OCCUPIED SPACES FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR: 5/8" TYPE "X" ABUSE RESISTANT GYPSUM BOARD
   -SUSPENDED GYPSUM BOARD CEILINGS: 5/8" TYPE "X" SAG RESISTANT GYPSUM BOARD
   -EXTERIOR CEILINGS AND SOFFITS: 5/8" GLASS-MAT GYPSUM SHEATHING
   -PARTITIONS TO RECEIVE TILE FINISH: 5/8" TYPE "X"GLASS-MAT WATER RESISTANT BACKING BOARD
   - TOILET ROOMS, KITCHENS & JANITOR CLOSETS: PARTITIONS & CEILINGS THAT DO NOT RECEIVE TILE SHALL RECEIVE 5/8" TYPE "X" MOISTURE & MOLD RESISTANT GYPSUM BOARD

MAXIMUM SPACING - GYPSUM BOARD CONTROL JOINTS

CONSTRUCTION AND LOCATION	MAX SINGLE DIMENSION	MAX SINGLE AREA
	FEET	FEET
PARTITION - INTERIOR	30	-
CEILING - INTERIOR		
W/ PERIMETER RELIEF	50	2500
W/O PERIMETER RELIEF	30	900



PANEL REPLACEMENT DETAIL — 20
1/2" = 1'-0"



PARTITION TYPES
3/4" = 1'-0"

10

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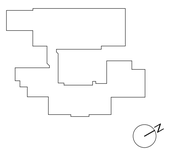

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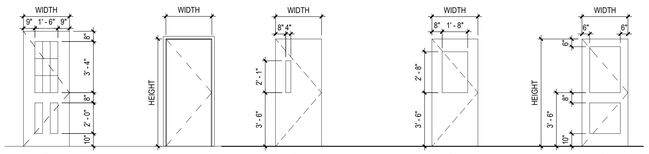
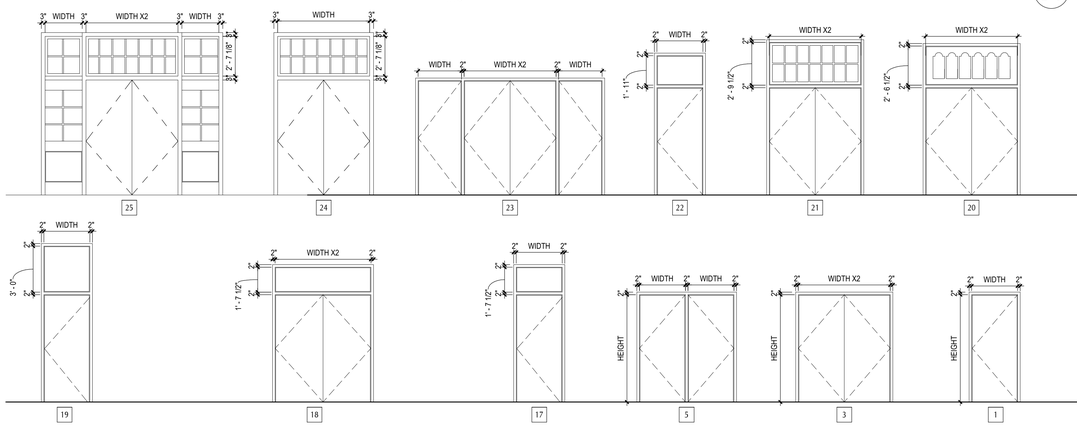
PARTITION TYPES

GR A701





SHEET NOTES

A. DOORS THAT HAVE A FIRE RATING SHALL HAVE CORRESPONDING RATED FRAMES.

B. AT ALL INTERSECTIONS OF DISSIMILAR FLOORING MATERIALS, PROVIDE APPROPRIATE TRANSITION STRIPS

C. AT METAL JAMB STUDS ALONG EACH SIDE OF DOOR OPENINGS, PROVIDE METAL STUD BRACING TO STRUCTURE ABOVE. BRACE'S SHALL BE 3 5/8"X20 GA STUD.

D. AT ALL DISSIMILAR CARPET TO CARPET INTERSECTIONS, PROVIDE APPROPRIATE TRANSITION STRIP.

E. ALL DOOR FRAMES TO BE PAINTED COLOR TO MATCH WALL UNLESS OTHERWISE NOTED.

F. EXISTING METAL HOLLOW FRAMES TO REMAIN SHALL BE SANDED DOWN TO METAL WHILE PROTECTING THE UL MARKING TO REMAIN INTACT AND READABLE. FOR SMALL ROUND HOLES USE STEEL FASTENERS AND GROUND DOWN THE HEAD TO BE SMOOTH WITH THE FRAME. PROVIDE STEEL PLATES MATCHING THE HOLLOW METAL FRAMES GUAGE FOR ABANDONED HARDWARE CUTOUTS OR OTHER OPENINGS . PROTECT THE UL MARKING PRIME AND PAINT THE HOLLOW METAL FRAMES.

G. ELECTRIC STRIKES AND TRANSFER HINGES, WHERE SPECIFIED ARE TO BE SUPPLIED AND INSTALLED BY THE GC AS PART OF THEIR DOOR/HARDWARE SPECIFICATION. THE GC WILL COORDINATE INSTALLATIONS WITH EC SO THAT WIRE ROUGHING CAN BE DONE AT THE APPROPRIATE TIME.

H. ALL SHELTER LOCK COMPONENTS TO BE INSTALLED BY GC. THE GC WILL INSTALL ALL LOCKSETS. THE GC WILL WILL TURN THE REPEATERS OVER TO THE ELECTRICAL CONTRACTOR WHO WILL INSTALL AND WIRE THE REPEATERS.

KEY NOTES

GLAZING TYPES

X-1	VISION GLASS
X-2	SPANDREL GLASS
X-3	SECURITY GLASS
I-1	1 HR. FIRE PROTECTED GLASS
I-2	TEMPERED SAFETY GLASS
I-3	SECURITY GLASS (SHOOTER ATTACK CERTIFIED)
I-4	1 HR. FIRE RESISTIVE GLASS
I-5	2 HR. FIRE RESISTIVE GLASS
I-6	1 HR. FIRE RESISTIVE SECURITY GLASS (SHOOTER ATTACK CERTIFIED)

DOOR TYPES

NTS

34

FRAME TYPES

NTS

13

NEW EXTERIOR DOOR SCHEDULE

DOOR NUMBER	DOOR											FRAME						LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS
	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL						
001E	1	D	STAIR	-	EXTERIOR	3' - 11"	6' - 9 1/2"	1 3/4"	F	FRP	FF	1	ALUM	FF				-	-	EX02.NEW	-	CR	
001F	PR	001	CAFETERIA	-	EXTERIOR	3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	3	ALUM	FF				-	X-3	EX04.NEW	-	CR	DOOR TO HAVE ARMOURED ONE SHOOTER ATTACK GLAS
003I	PR					3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	20	ALUM	FF				-	X-3	EX04.NEW	-	CR	DOOR TO HAVE ARMOURED ONE SHOOTER ATTACK GLAS
004A	1	D	STAIR			3' - 11"	7' - 0"	1 3/4"	F	FRP	FF	1	ALUM	FF				-	-	EX03.NEW	-		
004E	PR	B	STAIR			3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	21	ALUM	FF				-	X-3	EX02.NEW	-		DOOR TO HAVE ARMOURED ONE SHOOTER ATTACK GLASS, REINSTALL EXISTING
004H	PR	C	STAIR			3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	21	ALUM	FF				-	X-3	EX01.1.NEW	-		DOOR TO HAVE ARMOURED ONE SHOOTER ATTACK GLASS
005	1	-	BOILER ROOM	-	EXTERIOR	3' - 6"	7' - 0"	1 3/4"	N	FRP	FF	19	ALUM	FF				-	-	EX02.NEW	-	CR	
006A	1	006	ART. ROOM	-	EXTERIOR	3' - 3 1/2"	7' - 0"	1 3/4"	N	FRP	FF	19	ALUM	FF				-	X-1	EX03.NEW	-		
006B	1	-	EXTERIOR			3' - 3 1/2"	7' - 0"	1 3/4"	N	FRP	FF	19	ALUM	FF				-	X-1	EX03.NEW	-		
106A	PR	106	SECURE VESTIBULE			2' - 11"	7' - 6"	1 3/4"	FG	FRP	FF	24	ALUM	ANOD				-	X-3	EX04.NEW	-		DOOR TO HAVE ARMOURED ONE SHOOTER ATTACK GLASS
116B	4	116	GYM			3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	23	ALUM	FF				-	-	EX01.NEW	-		
A10A	2	A10	CORRIDOR	-	EXTERIOR	3' - 0"	7' - 0"	1 3/4"	N	FRP	FF	5	ALUM	FF				-	X-3	EX04.NEW	-	CR	DOOR TO HAVE ARMOURED ONE SHOOTER ATTACK GLASS
A013B	1	A013	BOILER ROOM	-	EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F1	FRP	FF	1	ALUM	FF				-	-	EX03	-		
A103A	1	A103	FACULTY LOUNGE			3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	1	ALUM	FF				20	-	EX03.NEW	-		

NEW DOOR HARDWARE ONLY SCHEDULE

DOOR NUMBER	DOOR											FRAME						LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS
	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL						
001A	2					3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT						S-04.NEW			SHELTER LOCKSET, EXIT DEVICE, PROVIDE REMOVABLE INTERMEDIATE MULLION
001AA	1					3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT						S-04.NEW			SHELTER LOCKSET, EXIT DEVICE

NEW INTERIOR DOOR SCHEDULE

DOOR NUMBER	DOOR											FRAME						LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS
	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL						
001B	1	02A	IT	D	STAIR	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				45	-	S-01.2 NEW			SHELTER LOCKSET
001BB	1	100F	CORRIDOR	112A	SECURITY	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PNT				45	I-1	S-01			SHELTER LOCKSET
001C	1	002	KITCHEN	D	STAIR	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				45	-	09.NEW			
002	1	001	CAFETERIA	002	KITCHEN	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				-	-	S-01.1			SHELTER LOCKSET
002G	1	A101C	OFFICE	A115B	PSYCHOLOGY OFFICES	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT						S-01			
003F	1	-	BOILER ROOM	C	STAIR	3' - 1 1/2"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				45	-	03.1			
003G	1	C	STAIR	-	CUSTODIAN	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				45	-	S-01.NEW			SHELTER LOCKSET
003H	PR					3' - 0"	7' - 0"	1 3/4"	G	WD	FF	21	HM	PNT				-	I-2	07.NEW			
100M	1	100B	CONNECTOR			3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT						09.NEW			
100N	1	100B	CONNECTOR			3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT						09.NEW			
103AB	2	103	LIBRARY			3' - 0"	7' - 0"	1 3/4"	N	WD	FF	3	HM	PNT	11/A902	12/A902	-	45	I-1	S-04.NEW			SHELTER LOCKSET, EXIT DEVICE, PROVIDE REMOVABLE INTERMEDIATE MULLION
106B	2	100F	CORRIDOR	106	SECURE VESTIBULE	3' - 0"	7' - 6"	1 3/4"	FG	FRP	FF	25	HM	PNT				-	I-3	EX01.1.NEW			
112A	1	100F	CORRIDOR	112	NURSE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PNT				45	I-1	S-01			SHELTER LOCKSET
112B	1	112	NURSE	112B	BATHROOM	2' - 10"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				-	-	05			
116E	1	-	CLOSET	-	STAIR	2' - 6"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				45	-	01.2.NEW			
206A	1	200A	CORRIDOR	206	5TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	22	HM	PNT	10/A902	20/A902		45	I-1	S-01.NEW			JAMB CONDITION "A", SHELTER LOCKSET
A001	2	A001	CORRIDOR	-	CRAWLSPACE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	5	HM	PNT				45	-	06.1.NEW			
A101C	1	A100B	CORRIDOR	A101C	OFFICE	2' - 8"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PNT				45	I-1	S-01.NEW			SHELTER LOCKSET
A116	1	A116	OFFICE	A100B	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PNT				45	I-1	S-01.2 NEW			SHELTER LOCKSET

NEW DOOR (FRAME TO REMAIN) SCHEDULE

DOOR NUMBER	DOOR											FRAME						LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS
	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL						
001CC	1	100F	CORRIDOR	112C	IT CLOSET	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
002A	1			D	STAIR	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-			01.1			
003A	1	100C	CORRIDOR	100D	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	-	EXST	PNT	-	-	-	45	I-1	01.2			
003B	1	100D	CORRIDOR	-	CRAWLSPACE	2' - 7 1/2"	4' - 10"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.1			
003C	1	-	CRAWLSPACE	100D	CORRIDOR	2' - 7 1/2"	4' - 10"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.1			
004C	1	-	JAN. CL	100E	CORRIDOR	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.3			
004I	1	-	JAN. CL.	100F	CORRIDOR	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.1			JAMB CONDITION "A"
004J	1	-	JAN. CL	100F	CORRIDOR	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.3			JAMB CONDITION "A"
005A	1	D	STAIR	-	ROOF ACESS	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03			
005E	1	-	ROOF ACESS	200A	CORRIDOR	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.3			JAMB CONDITION "A"
005F	1	200A	CORRIDOR	-	JAN. CL	2' - 4"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.1			JAMB CONDITION "A"
006	1	B	STAIR	006	ART. ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	S-01			SHELTER LOCKSET
007A	1	100C	CORRIDOR	007	ESL	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET, ACOUSTICAL RATED DOOR'S STC RATED 50 MIN
008A	1	100C	CORRIDOR	008	MUSIC ROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, ACOUSTICAL RATED DOOR'S STC RATED 50 MIN
009A	1	100C	CORRIDOR	009	BAND ROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, ACOUSTICAL RATED DOOR'S STC RATED 50 MIN
009B	1	100C	CORRIDOR	009	BAND ROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET, ACOUSTICAL RATED DOOR'S STC RATED 50 MIN
100E	2	B	STAIR	B	STAIR	3' - 10"	6' - 8"	1 3/4"	G	WD	FF	-	EXST	PNT				45	I-1	07.NEW	YES		
100J	1	100C	CORRIDOR	100C	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	01	YES		
102	1	100E	CORRIDOR	102	3RD GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
103AA	1	D	STAIR	103	LIBRARY	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-03			SHELTER LOCKSET, EXIT DEVICE
104	1	100F	CORRIDOR	104	3RD GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
105	1	105	4TH GRADE CLASSROOM	100F	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
106	1	100F	CORRIDOR	106	3RD GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.2			JAMB CONDITION "A", SHELTER LOCKSET
107	1	107	4TH GRADE CLASSROOM	100F	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
108	1	100F	CORRIDOR	108	PRINCIPAL	2' - 7"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
109	1	109	BOYS TOILET	100F	CORRIDOR	2' - 7 1/2"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	04.2			JAMB CONDITION "A", NEW EXTENDED ADA ALUMINUM THRESHOLD
110A	1	100F	CORRIDOR	110	OFFICE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
111	1	111	GIRLS TOILET	100F	CORRIDOR	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	04			JAMB CONDITION "A", NEW EXTENDED ADA ALUMINUM THRESHOLD
116A	1	116	GYM	C	STAIR	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	S-03			SHELTER LOCKSET, EXIT DEVICE
116C	1	116A	STAGE	-	STAIR	3' - 4"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-03			SHELTER LOCKSET, EXIT DEVICE
116D	1	-	STAIR	116A	STAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	S-01			SHELTER LOCKSET, EXIT DEVICE
201	1	D	STAIR	201	5TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
202A	1	200B	CORRIDOR	202	4TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
202B	1	200B	CORRIDOR	202	4TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
203A	1	200B	CORRIDOR	203	3RD GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
203B	1	200B	CORRIDOR	203	3RD GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
204	1	204	3RD GRADE CLASSROOM	B	STAIR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.2			JAMB CONDITION "A", SHELTER LOCKSET
205	1	200A	CORRIDOR	205	4TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
206	1	200A	CORRIDOR	206	5TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
206B	1	200A	CORRIDOR	206B	READING SPECIALIST	2' - 8"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET
207	1	200A	CORRIDOR	207	5TH GRADE CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET, REMOVE AND REINSTALL EXISTING CONDUIT AROUND DOOR FRAME
208	1	208	5TH GRADE CLASSROOM	200A	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			JAMB CONDITION "A", SHELTER LOCKSET, REMOVE AND REINSTALL EXISTING CONDUIT AROUND DOOR FRAME
209	1	200A	CORRIDOR	209	M. TOILET	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	05			JAMB CONDITION "A", NEW EXTENDED ADA ALUMINUM THRESHOLD
211	1	211	TOILET	200A	CORRIDOR	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	05.2			JAMB CONDITION "A", NEW EXTENDED ADA ALUMINUM THRESHOLD
212	1	200A	CORRIDOR	212	TEACH LOUNGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			JAMB CONDITION "A", SHELTER LOCKSET
A001A	2	A001	CORRIDOR	A	STAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	-	EXST	PNT	-	-	-	45	I-5	07.NEW	YES		
A002D	2	A100A	CORRIDOR			3' - 10"	6' - 8"	1 3/4"	G	WD	FF	-	EXST	PNT	-	-	-			07			
A3	2	-	CORRIDOR	A	STAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	-	EXST	PNT	-	-	-	90	I-5	07	YES		
A4	2	A100A	CORRIDOR	A	STAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	-	EXST	PNT	-	-	-	45	I-5	07	YES		
A004	1	A001	CORRIDOR	A004	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A005	1	A001	CORRIDOR	A005	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A006	1	A001	CORRIDOR	A006	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A007	1	A001	CORRIDOR	A007	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A009	1	A10	CORRIDOR	A009	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A010	1	A10	CORRIDOR	A010	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
A10B	2	A10	CORRIDOR	A	STAIR	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	-	EXST	PNT	-	-	-	90	I-5	07	YES		
A012A	1	A001	CORRIDOR	A012A	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	S-01			SHELTER LOCKSET
A013A	1	A001	CORRIDOR	A013	BOILER ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03.2			
A100	1	A100A	CORRIDOR	A100	STAGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, EXIT DEVICE
A100A	1	A100A	CORRIDOR	-	STORAGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	03			
A102C	1	A100B	CORRIDOR	A102C	TOILET	2' - 6"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	05			
A103	1	A100A	CORRIDOR	A103	FACULTY LOUNGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A104C	1	A100A	CORRIDOR	A104C	JANITOR	2' - 6"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	03			
A105C	1	A100A	CORRIDOR	A105C	TOILET	2' - 6"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	05			
A106A	2	A106	MULTI-PURPOSE RM	A100A	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-03			NEW DOOR CONTACT, SHELTER LOCKSET
A106B	2	A106	MULTI-PURPOSE RM	A100A	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-03			NEW DOOR CONTACT, SHELTER LOCKSET
A106C	1	A100A	CORRIDOR	A106C	TOILET	2' - 6"	7' - 0"	1 3/4"	F	WD	FF	-	EXST	PNT	-	-	-	45	-	05			
A108	1	A100A	CORRIDOR	A108	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A109	1	A100A	CORRIDOR	A109	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A110	1	A100A	CORRIDOR	A110	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A111	1	A100A	CORRIDOR	A111	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A112	1	A100A	CORRIDOR	A112	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A113	1	A100A	CORRIDOR	113	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A114	1	A100A	CORRIDOR	114	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET, NEW ADA EXTENDED ALUMINUM THRESHOLD
A115B	1	A100A	CORRIDOR	A115B	PSYCHOLOGY OFFICES	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET
A117	1	-	CORRIDOR	A117	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01.1			SHELTER LOCKSET
A118	1	-	CORRIDOR	A118	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	-	EXST	PNT	-	-	-	45	I-1	S-01			SHELTER LOCKSET

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

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SEAL

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BID SET	01/03/2023

KEY PLAN

SED PROJECT NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

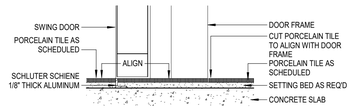
DOOR SCHEDULE AND ELEVATIONS

GR A901

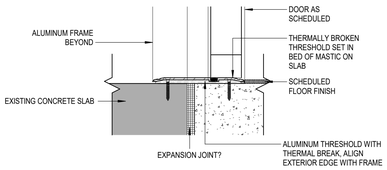
SHEET NOTES

A. FULLY GROUT ALL NEW INSTALLED MTL. FRAMES.

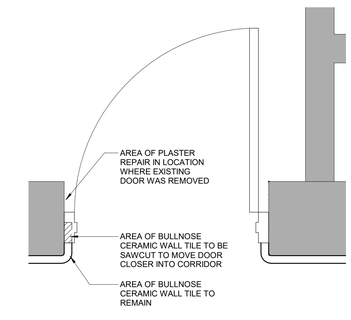
KEY NOTES



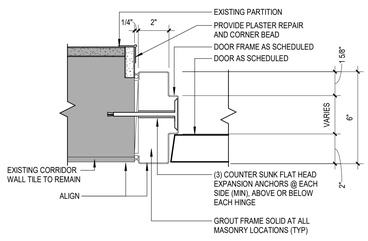
INTERTIOR THRESHOLD DETAIL 32
3" = 1'-0"



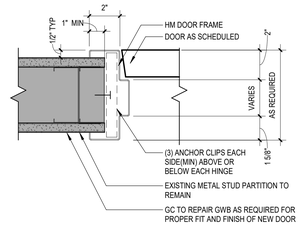
EXTERIOR THRESHOLD DETAIL 31
3" = 1'-0"



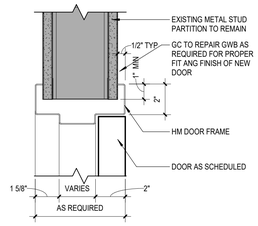
CONDITION "A" DOOR JAMB DETAIL 30
1" = 1'-0"



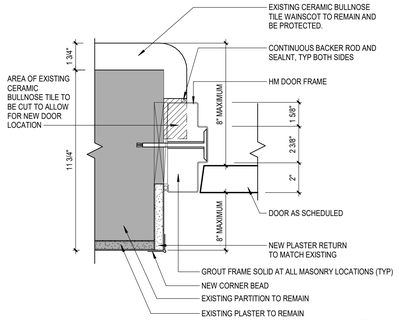
JAMB DETAIL 23
3" = 1'-0"



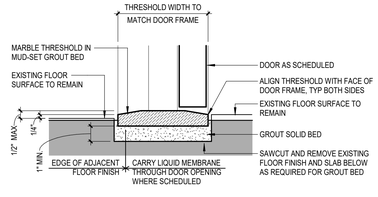
JAMB DETAIL 22
3" = 1'-0"



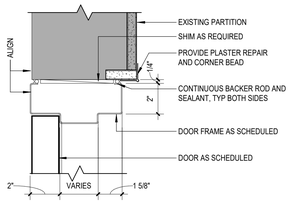
HEAD DETAIL 21
3" = 1'-0"



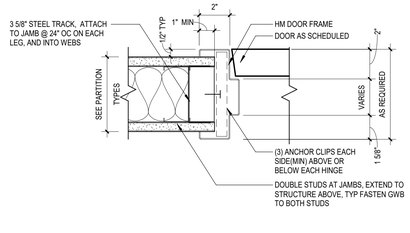
JAMB DETAIL 20
3" = 1'-0"



THRESHOLD IN EXISTING SLAB 14
3" = 1'-0"



HEAD DETAIL 13
3" = 1'-0"



JAMB DETAIL 12
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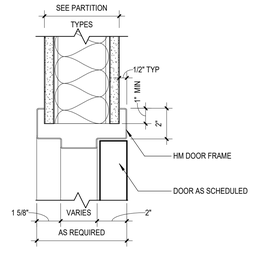
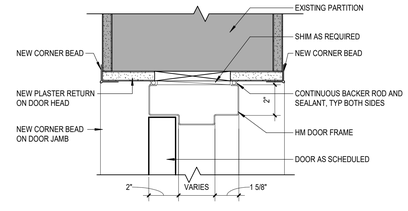


HEAD DETAIL 11
3" = 1'-0"



HEAD DETAIL 10
3" = 1'-0"

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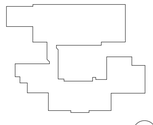
KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

DOOR DETAILS

GR A902

FINISH NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCE TO THE ARCHITECT'S BASIS-OF-DESIGN SELECTIONS AND HAVE BEEN DETERMINED PRIOR TO BID. THE CONTRACTOR AND OWNER ARE HEREBY NOTIFIED THAT FINISHES INSTALLED IN THE WORK ARE SUBJECT TO CHANGE IN RESPONSE TO SUBMITTALS. CONFIRMED SELECTIONS, PRODUCT AVAILABILITY AND THE SUBSEQUENT COORDINATION OF FINISHES BY ARCHITECT AND MAY DIFFER FROM PRODUCTS LISTED HEREIN.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ETR	EXISTING TO REMAIN PAINT
LVT	LUXURY VINYL TILE
PNT	PAINT
RB	RUBBER / RUBBER WALL BASE
PT	PORCELAIN TILE
GWB	GYPSUM WALL BOARDS

FINISH LEGEND

WALL FINISH
BASE FINISH
FLOOR FINISH
CEILING FINISH

INTERIOR FINISH TAG, REFER TO DETAILS AND ROOM FINISH SCHEDULE

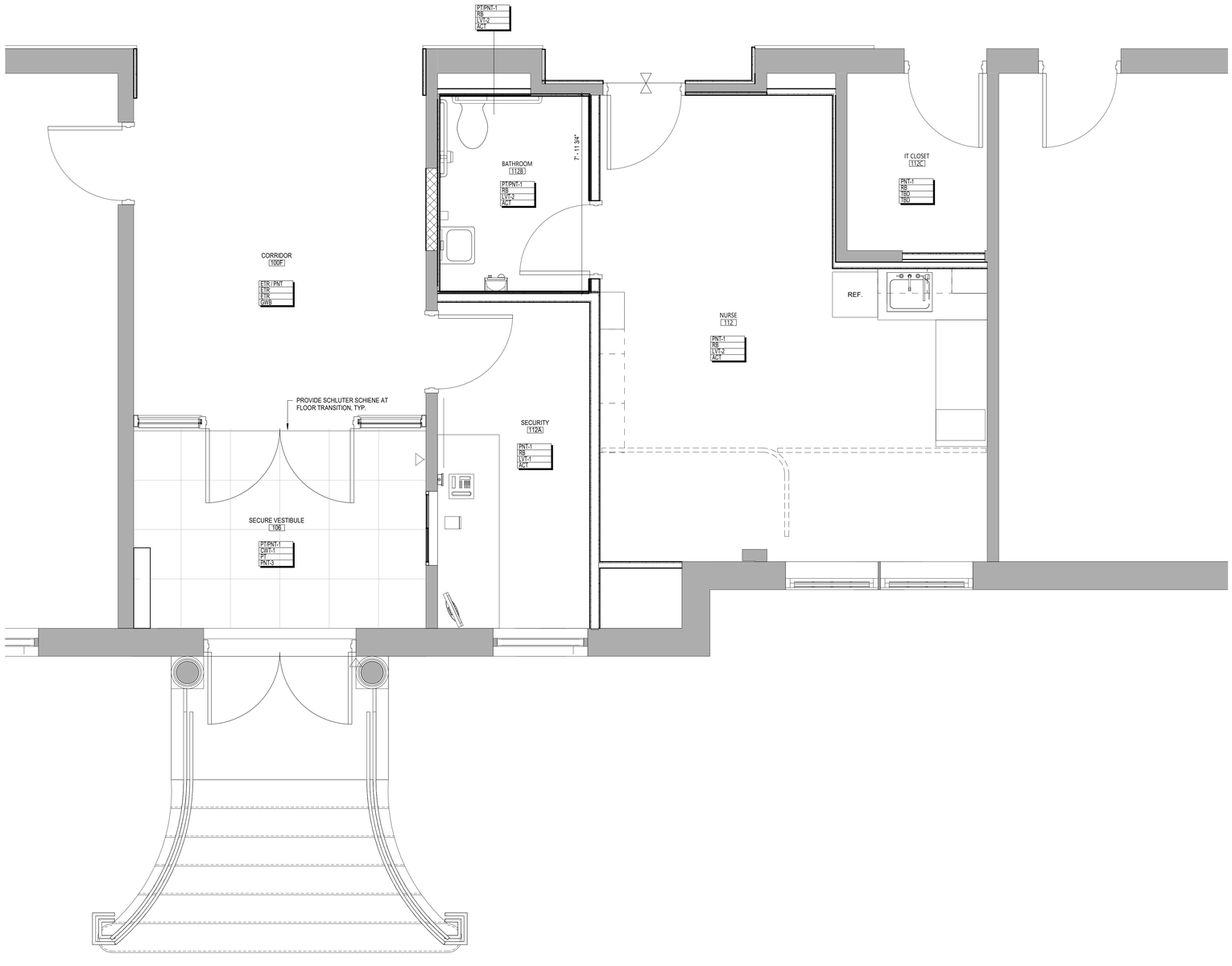
CHANGE IN FINISH MATERIAL

SCHEDULE OF FINISH MATERIALS

TAG	MATERIAL	MANUFACTURER	STYLE / TYPE	COLOR	SIZE	NOTES
PT	PORCELAIN TILE	CREATIVE MATERIALS CORPORATION	BELLISSIMO	WARM GRAY	24" x 24"	VESTIBULE FLOOR
CWT-1	CERAMIC WALL TILE	CREATIVE MATERIALS CORPORATION	MONUMENTAL	BEIGE	12" x 24"	ALIGN WALL AND FLOOR TILES
CWT-2	CERAMIC WALL TILE	DALTILE	COLORMATCH	MATTE STARLIGHT 68	4" x 4" ?	WALL
CWT-3	CERAMIC WALL TILE	DALTILE	COLORMATCH	MATTE PEARL WHITE 63	4" x 4" ?	WALL
PNT-1	PAINT	BENJAMIN MOORE	OFF WHITE	LINEN WHITE EGGSHELL		WALL
PNT-2	PAINT	BENJAMIN MOORE	HISTORICAL	RICHMOND BISQUE		TRIM
PNT-3	PAINT	BENJAMIN MOORE	AFFINITY	STEAM		
LVT-1	LUXURY VINYL TILE	CREATIVE MATERIALS CORPORATION	HARMONIOUS	SAND CROSSHATCH	18" x 18"	SECURITY OFFICE FLOOR
LVT-2	LUXURY VINYL TILE	ARMSTRONG FLOORING	TERRA	ST388 ASTANA CHALCEDONY	18" x 18"	NURSE'S SUITE FLOOR
PLAM-1	PLASTIC LAMINATE	WILSONART	D30-60	NATURAL ALMOND		COUNTERTOP
PLAM-2	PLASTIC LAMINATE	WILSONART	7999K-12	FIELD ELM		CABINETS
ACT	ACT CEILING	CERTAIN TEED	SAND MICRO	WHITE	24"X24"; 24" x 48"	SUPRAFINE XL 9/16" EXPOSED TEE GRID
RB	RUBBER BASE	ROPPE	TS	TBD	4" H.	WALL BASE
GWB	GWB CEILING	TBD	TBD	TBD	TBD	TO MATCH EXST.

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	ROOM STYLE	ROOM FINISH	ROOM BASE	WALL FINISH	ACCENT WALL	CEILING	COMMENTS	REMARKS
100F	CORRIDOR	(none)	ETR	ETR	ETR / PNT		GWB		UPDATED WORK
106	SECURE VESTIBULE	(none)	PT	CWT-1	PT/PNT-1		PNT-3		UPDATED WORK
112	NURSE	(none)	LVT-2	RB	PNT-1		ACT		UPDATED WORK
112A	SECURITY	(none)	LVT-1	RB	PNT-1		ACT		UPDATED WORK
112B	BATHROOM	(none)	LVT-2	RB	PT/PNT-1		ACT		UPDATED WORK
112C	IT CLOSET	(none)	TBD	RB	PNT-1		TBD		UPDATED WORK



MAIN ENTRY FINISH PLAN
1/2" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

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SEAL

ISSUE	DATE
BID SET	01/03/2023

KEY PLAN

SED PROJECT NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

FINISHES

GR AF001

GENERAL STRUCTURAL NOTES
1. ALL WORK SHALL CONFORM TO THE CODE & REFERENCE STANDARDS LISTED BELOW.

2. THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL, M/E/P/S DRAWINGS (INCLUDING ALL CONTRACT SHOP DRAWINGS) AND EQUIPMENT MANUFACTURERS TO ENSURE THAT OPENINGS, ANCHORS, INSERTS, SLEEVES, ATTACHMENTS, ETC. ARE PROVIDED AS REQUIRED. SOME OF THE DETAILS OF THE WORK ARE SHOWN ON THESE DRAWING SHOULD BE CAREFULLY REVIEWED BY THE CONTRACTOR TO FULLY COMPREHEND THE FULL SCOPE OF WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL DIMENSIONS WITH THE ARCHITECTURAL AND M/E/P/S DRAWINGS. IN CASE OF CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY REQUEST A CLARIFICATION FROM THE ARCHITECT/ENGINEER.

4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD PRIOR TO THE FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER.

5. IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND SHALL NOT PROCEED WITH ANY WORK THAT WOULD BE AFFECTED UNTIL FORMALLY DIRECTED BY THE ARCHITECT/ENGINEER ON HOW TO PROCEED.

6. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER.

7. IN CASE OF CONFLICT BETWEEN NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

8. THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPORTING AND STABLE AFTER CONSTRUCTION OF THE STRUCTURE HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. LACK OF COMMENT BY THE ARCHITECT/ENGINEER IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE ASPECTS OF WORK.

9. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISALIGNED OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. IF FAULTY CONSTRUCTION PROCEDURES OR MATERIALS RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURE, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE GENERAL CONTRACTOR'S PAYMENT.

10. DO NOT SCALE DRAWINGS.

BUILDING CODE & REFERENCED STANDARDS
1. [2020 INTERNATIONAL BUILDING CODE 2020 NEW YORK STATE BUILDING CODE]
2. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

DESIGN CRITERIA
1. DEAD LOADS — PER MATERIAL
2. FLOOR LIVE LOADS
   LOBBIES & 1ST FLOOR CORRIDORS — 100 PSF

3. SNOW LOADS
   GROUND SNOW LOAD, Pg = — 20 PSF
   SNOW EXPOSURE FACTOR, Ce = — 0.9
   SNOW LOAD IMPORTANCE FACTOR, Is = — 1.1
   THERMAL FACTOR, Ct = — 1.0
   DRIFT SURCHARGE LOAD, Pd = — N/A
   WIDTH OF SNOW DRIFT, w = — N/A
   FLAT-ROOF SNOW LOAD, Pf = — 22 PSF

4. LATERAL EARTH PRESSURES
   EQUIVALENT LIQUID HEAD — 40 PSF
   AT REST — 60 PSF

FOUNDATIONS
1. THE FOUNDATION HAS BEEN DESIGNED BASED ON INFORMATION PROVIDED IN NEW YORK STATE BUILDING CODE.

2. FOOTINGS/MATT FOUNDATION HAS BEEN DESIGNED FOR A MAXIMUM ALLOWABLE BEARING PRESSURE OF 1 TSF.

3. ALL UNSUITABLE MATERIAL (BRICK FRAGMENTS, ASPHALT, CONCRETE BOULDER, ETC.) WITHIN THE BUILDING AREA AND EXCAVATION SHALL BE REMOVED FROM THE SITE. ALL WATER AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF THE EXCAVATION BEFORE COMPACTING SUBGRADE AND PACING CONCRETE OR GRANULAR FILL.
4. GRADE BEAMS AND PILE CAPS SHALL BE POURED OVER UNDISTURBED OR COMPACTED NATIVE SOIL AND/OR GRANULAR FILL (IF REQUIRED).

5. COMPACTED GRANULAR FILL SHALL CONSIST OF BROKEN OR CRUSHED STONE, OR BANK OR CRUSHED GRAVEL AND SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES FREE FROM SOFT, THIN, ELONGATED OR LAMINATED PIECES AND FREE OF MUD, DIRT, VEGETATIVE OR OTHER DELETERIOUS SUBSTANCES GRADED AS FOLLOWS:

SQUARE MESH SIZE	PERCENT PASSING BY WEIGHT:
PASS 3 ½"	100
PASS 1 ½"	55-100
PASS ¾"	40-65
PASS ¾"	25-60
PASS #10	15-45
PASS #40	5-25
PASS #200	0-5

6. THE COMPACTION EFFORT, WHERE REQUIRED, SHALL BE INSPECTED BY THE OWNER'S GEOTECHNICAL ENGINEER. MATERIAL REQUIRING COMPACTION SHALL BE PLACED IN MAXIMUM 8" LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE COMPACTED WITH APPROPRIATE EQUIPMENT TO A MINIMUM 95 % ITS MAXIMUM DENSITY AT OR NEAR OPTIMUM MOISTURE. NO LIFTS SHALL BE PLACED WHEN WEATHER CONDITIONS ARE SUCH THAT THE MOISTURE CONTENT OF THE MATERIAL CANNOT BE PROPERLY CONTROLLED.

7. ALL SOIL SURROUNDING AND UNDER NEW AND EXISTING FOUNDATIONS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION THROUGHOUT THE COURSE OF CONSTRUCTION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING POURS TO MINIMIZE SHRINKAGE CRACKING. WALL CONTRACTION AND/OR CONSTRUCTION JOINTS SHALL BE SPACED A A MAXIMUM DISTANCE OF 40'-0". SLAB CONTRACTION AND/OR CONSTRUCTION JOINTS SHALL BE SPACED AT A MAXIMUM DISTANCE OF 15'-0". THE LOCATION AND CONFIGURATION OF PROPOSED JOINTS SHALL BE COORDINATED WITH THE ARCHITECT AND THE STRUCTURAL ENGINEER.

9. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, OPENINGS, ANCHOR BOLTS, ETC. AS REQUIRED FOR THE BUILDING STRUCTURE AND FOR THE WORK OF OTHER TRADES BEFORE SETTING FORMS. COORDINATE ALL REQUIREMENTS WITH THE ARCHITECTURAL AND M/E/P/S DRAWINGS.

10. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE USED ONLY WHEN UNAVOIDABLE AND SHALL BE LOCATED AT A MINIMUM 6'-0" FROM ANY SUPPORTING PIER OR BUTTRESS, EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. NO HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS WILL BE ALLOWED.

11. ALL REQUIRED UNDERPINNING, SHEETING, SHORING OR OTHER SIMILAR EXCAVATION CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE THE SUBJECT OF CONTROLLED INSPECTIONS AS REQUIRED BY THE REFERENCED BUILDING CODE. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK TO PROVIDE ALL NECESSARY DESIGNS AND REQUIRED INSPECTIONS. CONTRACTOR SHALL SUBMIT SIGNED & SEALED DRAWINGS OF SUCH DESIGNS TO THE ENGINEER OF RECORD TO REVIEW.

12. ALL EXISTING FOUNDATIONS AND EXISTING CONDITIONS DEPICTED ON THE DRAWINGS ARE BASED ON LIMITED FIELD OBSERVATIONS. ANY UNUSUAL CONDITIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD.

13. AT NO TIME SHALL BULLDOZERS, TRUCKS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" TO ANY FOUNDATION WALL.

14. CONFORM TO ALL BUILDING CODE PROVISIONS AND OSHA REQUIREMENTS REGARDING THE BRACING, SHEETING, SHORING ETC. OF EXCAVATIONS.

CONCRETE
1. CONCRETE SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ACI-318, "MINIMUM REQUIREMENTS FOR STRUCTURAL CONCRETE", LATEST EDITION.

2. CONCRETE MIX SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.

3. THE FOLLOWING MIX PARAMETERS SHALL BE USED:

ELEMENT	28 DAY STRENGTH	W/C	AIR CONTENT
FOOTINGS	4,000 PSI	0.45	6% ± 1.5%
FDN. WALLS	4,000 PSI	0.45	6% ± 1.5%
EXT. SLAB	4,000 PSI	0.45	6% ± 1.5%
STRUCT. SLABS	4,000 PSI	0.45	LESS THAN 3%

4. UNLESS OTHERWISE NOTES, CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) USING HARDROCK AGGREGATES. AGGREGATES USED IN CONCRETE SHALL CONFORM TO ASTM C33, CONCRETE AGGREGATES.

5. WATER USED IN CONCRETE WORK SHALL BE CLEAN AND POTABLE.

6. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. ALL CONCRETE SHALL BE ALL TYPE II. MAXIMUM CHLORIDE ION, PERCENT BY WEIGHT OF CEMENT, SHALL BE 0.06.

7. CONCRETE MIXING, PLACEMENT AND QUALITY SHALL BE PER IBC SECTION 1905, ASTM C94, ASTM C685, AND ACI 302. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED STRAPS OR HARDWARE, BOLTS FOR HOLDOWNS, PT ANCHORAGES (IF NECESSARY), CURBS AND EDGES OF SLAB STEPS AND UNDER FLOOR DUCTS OR SIMILAR ELEMENTS.

8. CONFORM TO ACI HOT AND COLD WEATHER CONCRETING REQUIREMENTS, ACI 305 AND ACI 306, LATEST REVISIONS.

9. CONCRETE FORMWORK SHALL BE FREE OF DEBRIS AND OIL TO ALLOW FOR PROPER REMOVAL. FORMWORK SHALL REMAIN IN PLACE FOR A MINIMUM OF 7 DAYS FOR WALL FORMS AND 21 DAYS FOR BEAM FORMS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. AFTER SUCH TIME, ALL FORMWORK SHALL BE REMOVED.

10. REINFORCING FOR CONCRETE SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.

11. WHERE SPECIFICALLY INDICATED ON DRAWINGS, REINFORCING REQUIRING EPOXY SHALL CONFORM TO ASTM A934-07.

12. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH A MINIMUM YIELD STRENGTH OF 75 KSI. LAP ONE MESH SIZE AT SIDES AND ENDS, AND WIRE TOGETHER. WELDED WIRE FABRIC SHALL BE SUPPLIED IN SHEETS ONLY.

13. ALL ITEMS CAST IN SLAB, SUCH AS REINFORCEMENT, PIPLES, SLEEVES, ETC. SHALL BE SECURED PRIOR TO PLACING CONCRETE.

14. CONCRETE SHALL BE PLACED IN A MANNER TO AVOID SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET.

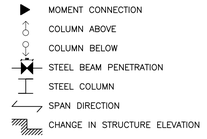
15. PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL NOT EXCEED ⅓ OF THE SLAB THICKNESS AND BE LOCATED IN THE MIDDLE THIRD OF THE SLAB. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.

16. CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7 DAYS BY USING A CURING COMPOUND CONFORMING TO ASTM C-309 OR BY WET BURLAP OR A PLASTIC MEMBRANE.

17. SHOP DRAWINGS FOR STEEL REINFORCEMENT SIZE AND LOCATIONS, FORMWORK, SHORING AND RE-SHORING MEMBERS SHALL BE SUBMITTED TO ENGINEER OF RECORD.

STRUCTURAL ABBREVIATIONS
- A.B.=ANCHOR BOLT
- B.=BOTTOM
- B/=BOTTOM OF
- BM.=BEAM
- BRG.=BEARING
- BLK.=BLOCK
- B.O.F.=BOTTOM OF FOUNDATION
- BOT.=BOTTOM
- B.P.=BASE PLATE
- BRKT.=BRACKET
- CANT.=CANTILEVER
- C.I.P.=CAST-IN-PLACE
- CLR.=CLEAR
- COL.=COLUMN
- CONC.=CONCRETE
- C.M.U.=CONCRETE MASONRY UNIT
- CONST. JT.=CONSTRUCTION JOINT
- CONT.=CONTINUOUS
- C.J.=CONTROL JOINT
- DEPR.=DEPRESSION
- DET.=DETAIL
- D.L.=DEVELOPMENT LENGTH
- DIA.=DIAMETER
- DIM.=DIMENSION
- DIR.=DIRECTION
- DWLS.=DOWELS
- EA.=EACH
- E.E.=EACH END
- E.F.=EACH FACE
- E.J.=EXPANSION JOINT
- E.S.=EACH SIDE
- EQ.=EQUAL
- E.W.=EACH WAY
- EXIST.=EXISTING
- EXST.=EXISTING
- EXP. BOLT=EXPANSION BOLT
- EXP.JT.=EXPANSION JOINT
- F.F.=FAR FACE
- FT.=FOOT OR FEET
- FIN.=FINISH
- FL.=FLOOR
- FTG.=FOOTING
- FND.=FOUNDATION
- GALV.=GALVANIZED
- GA.=GAUGE
- GR.=GRADE
- G.B.=GRADE BEAM
- G.P.=GUSSET PLATE
- HI.=HIGH
- H.L.=HUNG LINTEL
- HT.=HEIGHT
- H.P.=HIGH POINT
- H.S.=HIGH STRENGTH
- H.E.F.=HORIZONTAL EACH FACE
- H.I.F.=HORIZONTAL INSIDE FACE
- H.O.F.=HORIZONTAL OUTSIDE FACE
- HOR.=HORIZONTAL
- IN.=INCH
- I.D.=INSIDE DIAMETER
- INV.=INVERT
- JT.=JOINT
- JST.=JOIST
- K.=KIP (1000 POUNDS)
- LO.=LOW
- L.W.=LIGHT WEIGHT
- L.W.C.=LIGHT WEIGHT CONCRETE
- L.L.V.=LONG LEG VERTICAL
- L.P.=LOW POINT
- MAS.=MASONRY
- MTL.=METAL
- NF.=NEAR FACE
- N.W.C.=NORMAL WEIGHT CONCRETE
- N.I.C.=NOT IN CONTRACT
- O.C.=ON CENTER
- O.D.=OUTSIDE DIAMETER
- OPNG.=OPENING
- P.C.=PILE CAP
- PL.=PLATE
- PT.=POINT
- P.T.=PRESSURE-TREATED
- PVC.=POLYVINYL CHLORIDE
- PSF.=POUNDS PER SQUARE FOOT
- PSI.=POUNDS PER SQUARE INCH
- R.=RADIUS
- REINF.=REINFORCED
- RETG.=RETAINING
- RET.=RETURN
- R.E.=RIGHT END
- SECT.=SECTION
- S.C.=SHEAR CONNECTOR
- SHT.=SHEET
- S.L.V.=SHORT LEG VERTICAL
- SIM.=SIMILAR
- S.O.G.=SLAB ON GRADE
- S.L.=SPLICE LENGTH
- SQ.=SQUARE
- STD.=STANDARD
- STL.=STEEL
- S.D.I.=STEEL DECK INSTITUTE
- S.F.=STEP FOOTING OR SQUARE FOOT
- STIFF.=STIFFENER
- STR.=STRUCTURAL
- SUP.=SUPPORT
- SYM.=SYMMETRICAL
- THK.=THICK OR THICKNESS
- THRD.=THREADED
- T&B.=TOP AND BOTTOM
- T.=TOP
- T/=TOP OF
- TO.=TOP OF
- T.O.C.=TOP OF CONCRETE
- T.O.F.=TOP OF FOUNDATION
- T.O.S.=TOP OF STEEL
- T.O.W.=TOP OF WALL
- TYP.=TYPICAL
- U.N.O.=UNLESS NOTED OTHERWISE
- U.O.N.=UNLESS OTHERWISE NOTED
- US.=UNDERSIDE
- V.E.F.=VERTICAL EACH FACE
- V.I.F.=VERIFY IN FIELD
- V.O.F.=VERTICAL OUTSIDE FACE
- W.W.F.=WELDED WIRE FABRIC
- W.W.M.=WELDED WIRE MESH
- W/=WITH
- W.P.=WORKING POINT

STRUCTURAL SYMBOLS



EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

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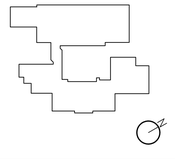
LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE. #204
PELHAM, NY 10803
914.693.0221

SEAL

ISSUE	DATE
BID SET	01/03/2023

KEY PLAN

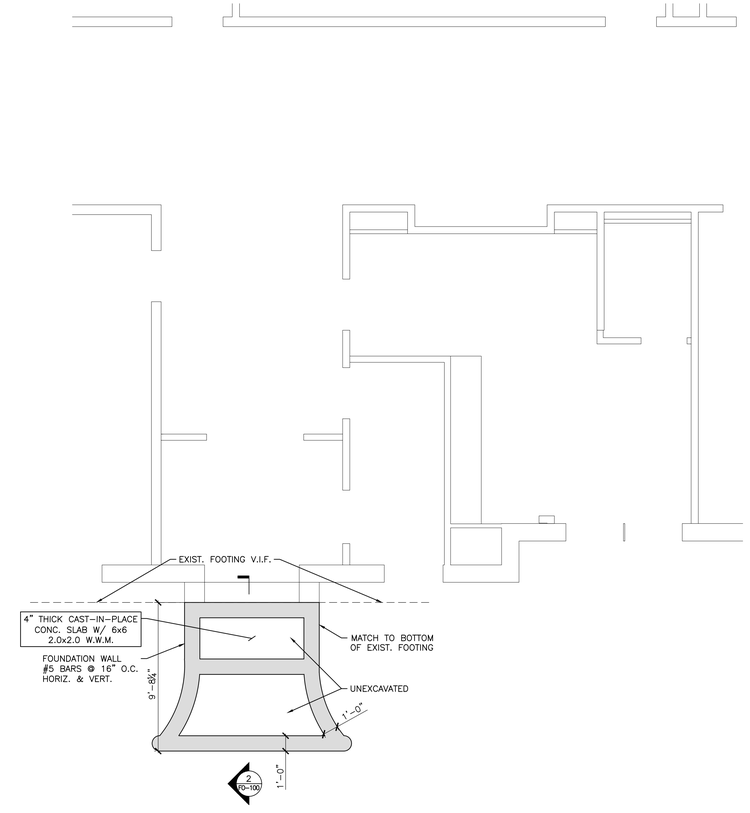


SED PROJECT NO. 66-03-01-03-0-006-015

MEMASI PROJECT NO. 102-2202

GENERAL NOTES

GR S-001

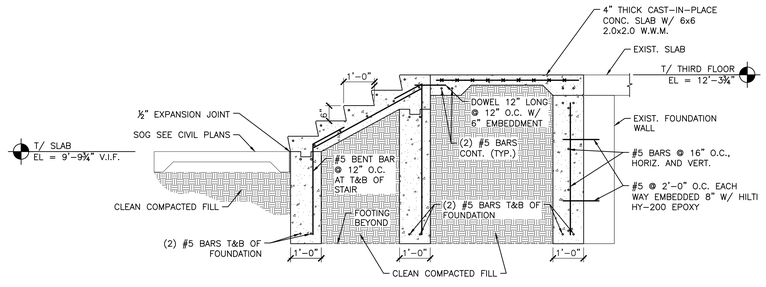


1 FO-100 FOUNDATION PLAN

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

NOTES:

1. FOOTING SHALL BE A MINIMUM OF 3'-0" BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
2. FOUNDATION WALL SHALL BE REINFORCED WITH #5 @ 12" O.C. HORIZ. AND VERT.



2 FO-100 STAIR FOUNDATION SECTION

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

EASTCHESTER UNION FREE SCHOOL DISTRICT

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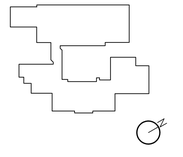
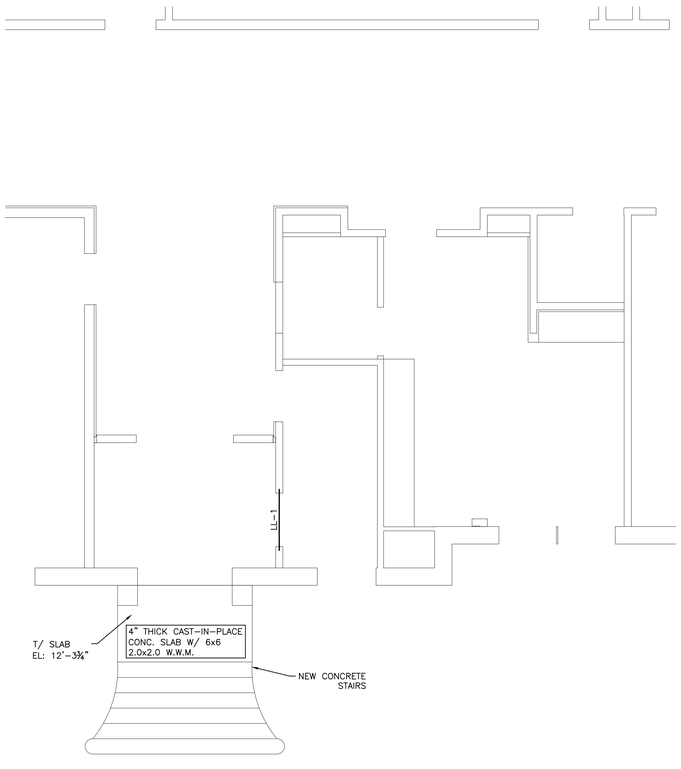


SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

FOUNDATION PLAN

GR FO-100



1 / S-100 THIRD FLOOR FRAMING PLAN

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

LINTEL SCHEDULE			
MARK	SIZE	END BEARING	REMARKS
LL-1	(2) L3½"x3½"x5/16"	8" EACH SIDE	N/A

EASTCHESTER UNION FREE SCHOOL DISTRICT

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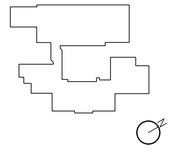

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THIRD FLOOR FRAMING PLAN

GR S-100

MECHANICAL SYMBOLS - GENERAL

	NEW PIPING, DUCTWORK, OR EQUIPMENT
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO REMAIN
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED
	NEW EQUIPMENT
ER	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT TO REMAIN
ERR	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
	CONTINUATION FOR DUCTWORK OR PIPING
AHU–1	TYPE OF EQUIPMENT (AIR HANDLING UNIT) UNIT NUMBER
	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK) OR POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)
#	DRAWING NOTE TAG
1	REVISION SYMBOL
A B	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A – SECTION DESIGNATION B – DRAWING NO.
T	THERMOSTAT (HAS DISPLAY, OCCUPANT ADJUSTMENT, OR BOTH) TO BE WALL MOUNTED. REFER TO PLANS FOR LOCATION.
TS	TEMPERATURE SENSOR (HAS NO DISPLAY OR OCCUPANT ADJUSTMENT) TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
SD	DUCT MOUNTED SMOKE DETECTOR

MECHANICAL SYMBOLS - DUCTWORK

18X12	18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18ø	18ø	ROUND DUCT DIAMETER
		SUPPLY OR OUTSIDE AIR INTAKE DUCT UP
		SUPPLY OUTSIDE AIR INTAKE DUCT DOWN
		RETURN OR EXHAUST DUCT UP
		RETURN OR EXHAUST DUCT DOWN
		ACOUSTICAL LINING IN DUCT
		TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
AD		ACCESS DOOR IN DUCT
R	R	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
D	D	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
		MITERED ELBOW WITH TURNING VANES
		RADIUS ELBOW (INNER RADIUS = WIDTH)
		DUCT SPLIT
		90° BRANCH TAP (USE 45° BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)
		45° BRANCH TAP
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE
		OFFSET (WITH RADIUS ELBOWS)
		SUPPLY REGISTER
		RETURN OR EXHAUST REGISTER
VD	VD	VOLUME DAMPER
FD	FD	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
M	M	MOTORIZED DAMPER W/DUCT ACCESS DOOR
FXC	FXC	FLEXIBLE CONNECTION
		FLEXIBLE DUCT
	VD	MODULAR LINEAR DIFFUSER WITH PLENUM
	VD	BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER

MECHANICAL SYMBOLS - DUCTWORK (CONT.)

		SUPPLY CEILING DIFFUSER (4–WAY BLOW)
		SUPPLY CEILING DIFFUSER (3–WAY BLOW)
		SUPPLY CEILING DIFFUSER (2–WAY BLOW)
		SUPPLY CEILING DIFFUSER (1–WAY BLOW)
CD–B(500)		DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
		RETURN CEILING GRILLE OR REGISTER
VAV–B(500)		TERMINAL BOX (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE, AND CFM. QUANTITY (REFER TO SCHEDULES).
VAV–B(500)		TERMINAL BOX WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE AND CFM. QUANTITY (REFER TO SCHEDULES).
SA	SA	SUPPLY AIR DUCT
RA	RA	RETURN AIR DUCT
OA	OA	OUTSIDE AIR INTAKE DUCT
EXH	EXH	EXHAUST DUCT

MECHANICAL SYMBOL LIST - PIPING

		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		ELBOW TURNED UP
		ELBOW TURNED DOWN
		BOTTOM PIPE CONNECTION
		TOP PIPE CONNECTION
		FLEXIBLE CONNECTION
		BALL VALVE
		GATE VALVE
		GLOBE VALVE
		CHECK VALVE (ARROW INDICATES FLOW DIRECTION)
		AUTOMATIC THREE–WAY CONTROL VALVE
		AUTOMATIC TWO–WAY CONTROL VALVE
		PRESSURE REDUCING VALVE
		PLUG VALVE
		BUTTERFLY VALVE (MANUAL)
		CIRCUIT SETTER/BALANCING VALVE
		PIPE GUIDE
		EXPANSION JOINT
		CONCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
		ECCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
		UNION
		CAPPED PIPE
		"Y" TYPE STRAINER WITH BLOW DOWN VALVE
		PIPE SLEEVE
	PIPE FLANGE	
	VALVE IN VERTICAL PIPE	
M	MANUAL AIR VENT	
A	AUTOMATIC AIR VENT	
	THERMOMETER	
	PIPE SENSOR WELL	
	PRESSURE GAUGE WITH SHUT OFF VALVE	
	PUMP	

MECHANICAL SYMBOLS - PIPING (CONT.)

H/CWS	DUAL–TEMPERATURE HOT/CHILLED WATER SUPPLY
H/CWR	DUAL–TEMPERATURE HOT/CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
CD	CONDENSATE DRAIN LINE (GRAVITY)
PD	PUMPED DRAIN LINE

MECHANICAL ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CV	CONSTANT VOLUME
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
ER	EXISTING EQUIPMENT TO REMOVED
ERR	EXISTING EQUIPMENT TO REMOVED AND RELOCATED
EWT	ENTER WATER TEMPERATURE
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FTR	FIN TUBE RADIATION
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HZ	HERTZ
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OED	OPEN END DUCT
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RE:	REFER TO...
TYP	TYPICAL
VN	VENT
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 1998 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NPFA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

MECHANICAL DRAWING LIST

Sheet Number	Sheet Title
GR M001	COVER SHEET
GR M101	THIRD FLOOR VESTIBULE PARTIAL PLANS
GR M201	SCHEDULES
GR M301	DETAILS

MECHANICAL GENERAL NOTES

1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK, AND PIPING FABRICATION SHOP DRAWING APPROVAL.
2. THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED SO AS TO REQUIRE THE MOST SUBSTANTIAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. IN THE CASE OF A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.
3. ANY MATERIAL, WORK, OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED, OUTER DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
5. WHERE WORK IS INDICATED TO BE BY OTHER CONTRACTORS, FOR EXAMPLE: "BY GENERAL CONSTRUCTION CONTRACTOR", THIS WORK IS NOT IN THE HVAC/MECHANICAL CONTRACT. EACH CONTRACTOR WILL BE RESPONSIBLE FOR CLOSE COORDINATION WITH OTHER CONTRACTORS' WORK.
6. REFER TO APPROPRIATE SPECIFICATION SECTION FOR EQUIPMENT SELECTION PARAMETERS WHERE DRAWINGS DO NOT CONTAIN EQUIPMENT SCHEDULES.
7. FOR AIR SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BRANCH VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTWORK, REGARDLESS IF VOLUME DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL VOLUME DAMPERS SHALL BE ADJUSTABLE HANDLE TYPE FOR LAY–IN ACCESSIBLE CEILING OR CABLE OPERATED FOR CONCEALED TYPE OF CEILING. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OR OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER.
8. INSTALL THERMOSTATS, FAN SPEED CONTROLLERS, AND OTHER ROOM OCCUPANT ADJUSTABLE CONTROLS WITH TOP OF DEVICE 4'–0" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT. COORDINATE EXACT LOCATIONS WITH THE ARCHITECTURAL PLANS. DEVICE COLORS TO BE SELECTED BY THE ARCHITECT. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.
9. WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
10. PROVIDE UL LISTED AND LABELED FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. PROVIDE 1–1/2 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 2 HOUR OR LESS RATING. PROVIDE 3 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 3 HOUR OR MORE RATING. ALL FIRE DAMPERS SHALL BE TYPE "B" WITH SHUTTER OUT OF AIRSTREAM, AND SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN–WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
11. PROVIDE UL LISTED AND LABELED COMBINATION FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE AND SMOKE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED WITH AN END SWITCH FOR STATUS SIGNAL TO THE BMS AND FIRE SMOKE CONTROL PANEL. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN–WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
12. PROVIDE FIRESTOPPING FOR ALL DUCT, PIPE, AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS.
13. WHERE DUCTS AND PIPES PENETRATE FIRE AND/OR SMOKE RATED WALLS, LEAVE A MINIMUM OF 2 INCHES CLEAR ABOVE THE DUCTS AND PIPES, SUCH THAT THE MECHANICAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCTWORK THROUGH FIRE AND/OR SMOKE RATED WALLS.
14. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS, WALLS, OR FLOORS WHERE EXPOSED TO VIEW IN FINISHED AREAS. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME–PLATED BRASS.
15. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING THERMOSTATS FOR ANY EQUIPMENT THAT REQUIRES CONTROL, SUCH AS VAV BOXES, FCU, FANS, HEATERS, FINNED TUBE RADIATION, RTU'S, ETC., REGARDLESS IF THERMOSTATS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL THERMOSTATS SHALL BE DIRECT DIGITAL PROGRAMMABLE TYPE, UNLESS OTHERWISE NOTED. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, FAN UNIT, VAV, FPB, ENTRANCE HEATER, BASEBOARD RADIATION, ETC. THERMOSTAT LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECT AND ENGINEER.
16. ALL DUCTWORK AND PIPING REQUIRING FIRE RATING AND WHERE SHOWN ON PLANS SHALL BE PROVIDED WITH UL LISTED FIRE–RATED DUCT WRAP WITH APPROPRIATE FIRE RATING (1–HOUR, 2–HOUR, ETC.), UNLESS A FIRE–RATED ARCHITECTURAL ENCLOSURE IN THAT LOCATION IS SPECIFIED WITHIN DRAWINGS AND SPECIFICATIONS FOR ANOTHER TRADE.
17. ALL LINEAR DIFFUSERS ARE TO BE COORDINATED WITH ARCHITECTURAL PLANS FOR EXACT LENGTHS AND LOCATIONS. ACTIVE PLENUM SECTIONS SHALL BE OF THE SIZES AS SHOWN ON PLANS. EACH BRANCH TAP SERVING THE LINEAR DIFFUSER SHALL BE PROVIDED WITH A VOLUME DAMPER WHICH SHALL BE OPERABLE THROUGH THE DIFFUSER FACE. ACTIVE SUPPLY SECTION OF LINEAR DIFFUSER SHALL BE PROVIDED WITH PATTERN CONTROL DEVICES AND EQUALIZING GRIDS. ACTIVE OR INACTIVE RETURN SECTIONS SHALL NOT BE FURNISHED WITH PATTERN CONTROL OR EQUALIZING GRIDS.
18. BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
19. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE DRAWINGS.
20. FOR WATER SYSTEMS: THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BALL TYPE SHUT–OFF VALVES AND SEPARATE BALANCING VALVE FOR ALL BRANCH PIPING REGARDLESS IF VALVES ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL SHUT–OFF VALVES SHALL BE FULL PORT AND PRESSURE RATED FOR SYSTEM PRESSURE. THE BALANCING VALVE SHALL BE SIMILAR TO B&G CIRCUIT SETTER PLUS CALIBRATED BALANCE VALVE, UNLESS OTHERWISE NOTED.
21. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING SECONDARY DRAIN PANS FOR ALL AIR CONDITIONING CEILING HUNG EQUIPMENT REGARDLESS IF DRAIN PANS ARE NOT SHOWN IN CONTRACT DOCUMENTS. REFER TO DETAIL FOR INSTALLATION OF DRAIN PANS. IF NO DETAIL IS SHOWN, CONTRACTOR MUST REQUEST DRAIN PAN DETAIL THRU RFI PROCESS DURING BIDDING.
22. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING CONDENSATE PIPING FOR ALL COOLING TYPE EQUIPMENT REGARDLESS IF CONDENSATE PIPING IS NOT SHOWN IN CONTRACT DOCUMENTS. ALL CONDENSATE PIPING SHALL BE INSULATED AND ROUTED TO NEAREST DRAIN OR JANITORS CLOSET. IF NO CONDENSATE PIPING IS SHOWN, CONTRACTOR MUST REQUEST CONDENSATE PIPING ROUTING THRU RFI PROCESS DURING BIDDING.
23. GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
24. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
25. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
26. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL, EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
27. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
28. PROVIDE ACCESS PANELS IN DUCTS AND CEILINGS/SOFFITS/WALLS/FLOORS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR ALL CONCEALED EQUIPMENT THAT REQUIRES PERIODIC SERVICE, INCLUDING AIR CONDITIONING UNITS, FANS, CONDENSATE PUMPS, FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND DUCT MOUNTED SMOKE DETECTORS. MATCH FIRE RATING OF CEILING/SOFFIT/WALL/FLOOR WHERE APPLICABLE.
29. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
30. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
31. COORDINATE ALL ROOF PENETRATIONS WITH THE WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE ALL ROOF PENETRATION LOCATIONS WITH THE OWNER. NOTIFY THE OWNER PRIOR TO STARTING WORK AND VERIFY COMPLIANCE WITH BOND AND WARRANTY OF THE ROOF.

MECHANICAL GENERAL NOTES (CONT.)

32. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED, AND CLEAR OF CEILING INSERTS.
33. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND EQUIPMENT MANUFACTURERS' REQUIREMENTS.
34. PRIOR TO SUBMISSION OF SHOP DRAWINGS, COORDINATE WITH ELECTRICAL CONTRACTOR TO VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT.
35. MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
36. ALL DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS INTEGRAL TO HVAC EQUIPMENT OR OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
37. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
38. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
39. ALL DUCTWORK AND PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
40. DO NOT INSTALL DUCTWORK OR PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
41. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.
42. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.
43. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OVAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, AND 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING.
44. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.
45. NEW AND EXISTING PERMANENT HVAC AIR EQUIPMENT MAY BE USED BY CONTRACTORS DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, AND VENTILATION, ONLY UNDER THE FOLLOWING CONDITIONS:
    - 45.1. CONTRACTOR TO PROVIDE TEMPORARY FILTERS IN EACH UNIT DURING CONSTRUCTION, WHICH SHALL BE REPLACED WITH NEW CLEAN FILTERS AFTER GENERAL CONSTRUCTION IS COMPLETED.
    - 45.2. CONTRACTOR TO PROVIDE FILTER FABRIC AT ALL RETURN AND EXHAUST REGISTERS, GRILLES, AND OPENINGS DURING CONSTRUCTION.
    - 45.3. THE WARRANTY PERIOD FOR ALL EQUIPMENT SHALL NOT BEGIN UNTIL CONSTRUCTION IS COMPLETED. IF THE EQUIPMENT MANUFACTURER'S WARRANTY PERIOD BEGINS WHILE THE UNIT USED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE WARRANTY TO PROVIDE THE FULL PERIOD OF COVERAGE TO THE OWNER.
    - 45.4. IF NEW PERMANENT HVAC AIR EQUIPMENT INSTALLED UNDER THIS PROJECT WILL NOT BE OPERATED BY THE CONTRACTOR DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS.
    - 45.5. IF THE ABOVE CONDITIONS ARE NOT MET, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY HEATING, COOLING, AND VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, PIPING, AND POWER AT HIS OWN EXPENSE.
    - 45.6. IF PERMANENT HVAC EQUIPMENT IS USED DURING CONSTRUCTION BUT NOT PROPERLY PROTECTED AS DESCRIBED ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DUST AND DEBRIS FROM DUCTWORK AND EQUIPMENT, AS WELL AS ANY NECESSARY REPAIR OR REPLACEMENT OF DAMAGED EQUIPMENT AT HIS OWN EXPENSE.
    - 45.7. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS.

MECHANICAL DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES, SYMBOL LIST, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED, AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
3. AFTER REMOVING PIPE THROUGH THE FLOOR SLABS, PACK OPENING WITH APPROVED FIRE–RATED PACKING.
4. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR, OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
8. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REAVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
9. PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED, AND RECONNECTED.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE, SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
13. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO A SHUTDOWN.
14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
15. WHERE THE DEMOLITION OF EXISTING PNEUMATIC CONTROL EQUIPMENT, THERMOSTATS, OR TUBING IS INDICATED IN THE PLANS, THE CONTRACTOR SHALL CAP THE ENDS OF ALL EXISTING TO REMAIN PNEUMATIC LINES AIRTIGHT UNLESS OTHERWISE NOTED. IF ADDITIONAL PNEUMATIC LINES OR DEVICES ARE DISCOVERED BY THE CONTRACTOR INSIDE WALLS OR ABOVE CEILINGS DURING DEMOLITION, THE CONTRACTOR SHALL INFORM THE DESIGN TEAM PRIOR TO REMOVAL OF THESE LINES OR DEVICES.

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SEAL

ISSUE	DATE
BID SET	01/03/2023

KEY PLAN

SED PROJECT NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

COVER SHEET

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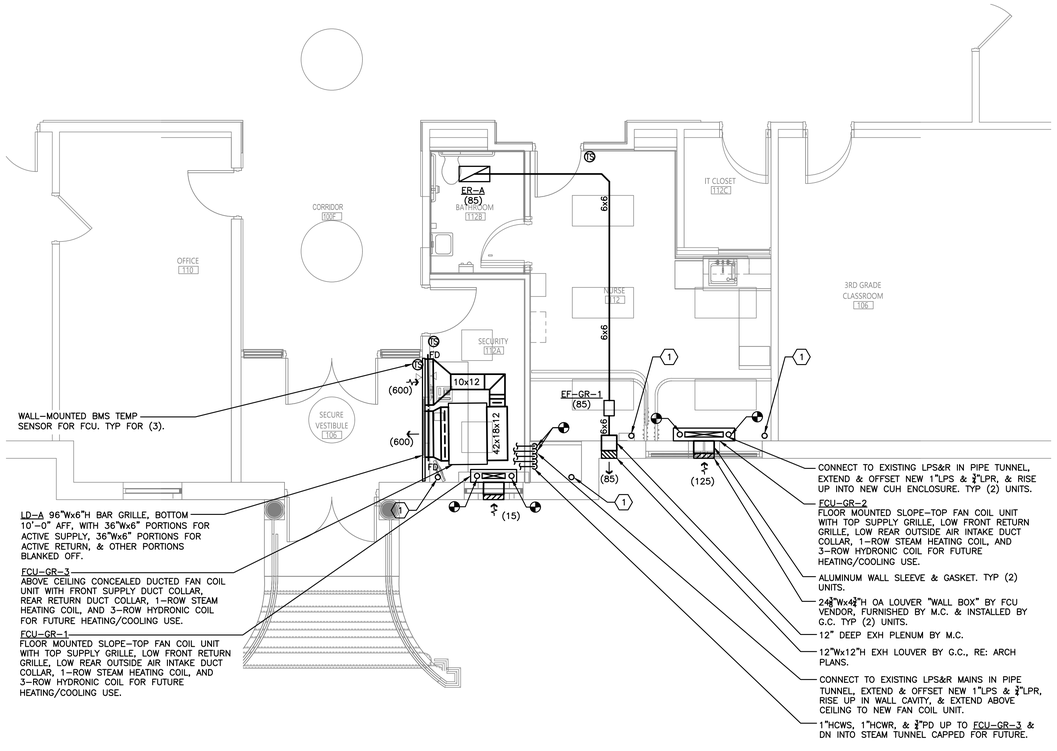
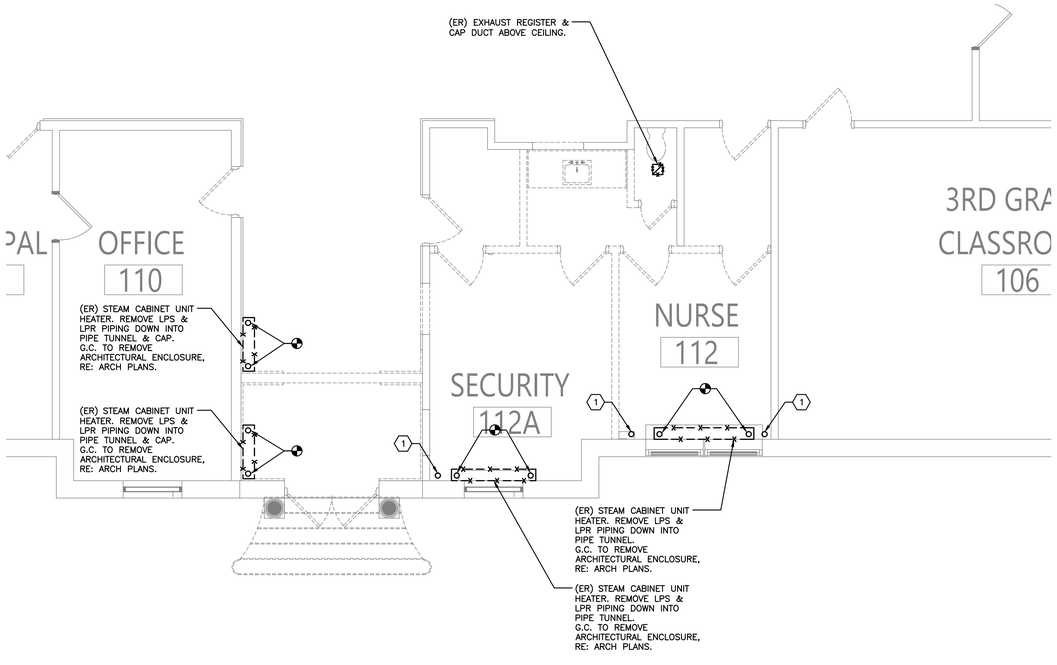


PART PLAN - THIRD FLOOR

1/4" = 1'-0"



DEMOLITION PART PLAN - THIRD FLOOR

1/4" = 1'-0"

NEW CONSTRUCTION NOTES – DUCTWORK:

1. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
2. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
3. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
4. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.
5. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.
6. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OVAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, AND 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING.

NEW CONSTRUCTION NOTES – PIPING:

1. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
2. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
3. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.

NEW CONSTRUCTION KEY NOTES:

1. DEMOLISH EXISTING 1¼"LPS RISER DOWN INTO STEAM TUNNEL & UP WITHIN 6" OF DECK ABOVE. OFFSET IN STEAM TUNNEL, RISE UP IN NEW PIPE CHASE, AND OFFSET ABOVE CEILING TO RECONNECT TO EXISTING UP THRU SLAB ABOVE.

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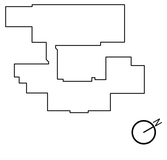
KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

THIRD FLOOR VESTIBULE PARTIAL PLANS

GR M101

VENTILATION SCHEDULE

AIR HANDLING SYSTEM DATA			ROOM DATA						OUTSIDE VENTILATION AIRFLOW REQUIRED PER THE 2020 NEW YORK STATE MECHANICAL CODE - SECTION 403					OUTSIDE VENTILATION AIRFLOW REQUIRED PER THE NYSED 1998 MANUAL OF PLANNING STANDARDS - SECTION S606-3-A			
AIR HANDLING SYSTEM DESIGNATION	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM NUMBER	ROOM NAME	FLOOR AREA	NUMBER OF PEOPLE	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN MINIMUM OUTSIDE VENTILATION AIRFLOW (CFM)	OUTSIDE VENTILATION AIRFLOW PER PERSON (CFM / PERSON)	OUTSIDE VENTILATION AIRFLOW PER SQUARE FOOT (CFM / SF)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ROOM OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM DESIGN OUTSIDE VENTILATION AIRFLOW MEETS OR EXCEEDS CODE REQUIREMENT (YES / NO)	OUTSIDE VENTILATION AIRFLOW PER PERSON (CFM / PERSON)	OUTSIDE VENTILATION AIRFLOW PER SQUARE FOOT (CFM / SF)	ROOM OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM DESIGN OUTSIDE VENTILATION AIRFLOW MEETS OR EXCEEDS NYSED REQUIREMENT (YES / NO)
FCU-GR-1	200	15	112A	SECURITY OFFICE	81	1	200	15	5	0.06	0.8	12	YES	15	0.00	15	YES
FCU-GR-2	600	125	112	NURSE	305	6	600	125	10	0.12	0.8	121	YES	15	0.00	90	YES

FAN COIL UNIT SCHEDULE

DESIGNATION	CONFIGURATION	AIR CONNECTIONS			SUPPLY FAN DATA										COILS	
		SUPPLY	RETURN	OUTSIDE AIR	SUPPLY AIRFLOW (CFM)	MIN. OUTSIDE AIRFLOW (CFM)	ESP (IN WC)	NO. OF MOTORS	HP (PER MOTOR)	BHP (PER MOTOR)	FAN TYPE	DRIVE TYPE	STARTER TYPE	STARTER LOCATION	STEAM	DUAL TEMP HOT & CHILLED
FCU-GR-1	VERTICAL SLOPE TOP	TOP GRILLE	LOW FRONT GRILLE	REAR DUCT COLLAR	200	15	0.09	1	0.13	0.05	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	1-ROW	3-ROW
FCU-GR-2	VERTICAL SLOPE TOP	TOP GRILLE	LOW FRONT GRILLE	REAR DUCT COLLAR	600	125	0.09	1	0.22	0.19	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	1-ROW	3-ROW
FCU-GR-3	HORIZONTAL CONCEALED	FRONT DUCT COLLAR	REAR DUCT COLLAR	-	600	-	0.30	1	0.22	0.21	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	1-ROW	3-ROW

DESIGNATION	CHILLED WATER (OR DUAL TEMP) COIL COOLING DATA											HOT WATER (OR DUAL TEMP) COIL HEATING DATA							
	FLUID	TOT. MBH	SENS. MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. DB (°F)	E.A.T. WB (°F)	L.A.T. DB (°F)	L.A.T. WB (°F)	W.P.D. (FT-WC)	FLUID	MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. (°F)	L.A.T. (°F)	W.P.D. (FT-WC)
FCU-GR-1	WATER	5.5	4.6	0.9	44	56	80	67	59	57	1.8	WATER	9.2	0.9	140	120	55	97	1.8
FCU-GR-2	WATER	16.4	14.0	2.7	44	56	80	67	58	56	3.8	WATER	27.3	2.7	140	120	55	97	3.8
FCU-GR-3	WATER	16.4	14.0	2.7	44	56	80	67	58	56	3.8	WATER	27.3	2.7	140	120	55	97	3.8

DESIGNATION	STEAM COIL HEATING DATA					ELECTRICAL DATA									
	HEATING MBH	STEAM PRESURE (PSIG)	STEAM FLOW (LBS/HR)	E.A.T. (°F)	L.A.T. (°F)	VOLTS	PH	Hz	MCA	MOP	DISCONNECT BY E.C OR MANUF.	DISCONNECT LOCATION	DISCONNECT TYPE	DISCONNECT ENCL. TYPE	EMER. PWR. (Y/N)
FCU-GR-1	10.8	2	9.4	55	105	120	1	60	2.8	15	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N
FCU-GR-2	26.9	2	23.3	55	96	120	1	60	3.9	15	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N
FCU-GR-3	26.9	2	23.3	55	96	120	1	60	3.9	15	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N

DESIGNATION	FILTER PRE-FILTER	UNIT OVERALL DIMENSIONS WIDTH (IN)	HEIGHT (IN)	LENGTH OR DEPTH (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
FCU-GR-1	1" MERV-13	33	25	10	81	TRANE	FC-C-J-020	SEE NOTES BELOW
FCU-GR-2	1" MERV-13	48	29	10	155	TRANE	FC-J-B-060	SEE NOTES BELOW
FCU-GR-3	1" MERV-13	47	25	10	139	TRANE	FC-C-B-060	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS WITH OUTSIDE AIR INTAKE CONNECTIONS:
   1.1. 2-POSITION OUTSIDE AIR MOTORIZED DAMPER AND ACTUATOR, "OPEN" POSITION FIELD ADJUSTIBLE FROM 0-50%.
2. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL FLOOR-MOUNTED UNITS:
   2.2. SUB-BASE, 4" HIGH.
3. PROVIDE THE FOLLOWING FIELD SUPPLIED OPTIONS FOR ALL UNITS:
   3.1. AUTOMATIC TEMPERATURE CONTROLS SUB-CONTRACTOR TO FURNISH AND FIELD-INSTALL BMS CONTROLS, CONTROL VALVES, AND CONTROL WIRING.

FAN SCHEDULE

DESIGNATION	SERVICE	CONFIGURATION	DRIVE TYPE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN WC)	MHP	VOLTS	PH	Hz	DISCONNECT BY E.C. OR MANUF.	DISCONNECT LOCATION	DISCONNECT TYPE	DISCONNECT ENCLOSURE TYPE	STARTER BY M.C. OR MANUF.	STARTER LOCATION	STARTER TYPE	STARTER ENCLOSURE TYPE	EMER. POWER (Y/N)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
EF-GR-1	EXHAUST	IN-LINE	DIRECT	85	0.50	1/4	115	1	60	E.C.	UNIT MTD.	NON-FUSED	NEMA-1	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	12	GREENHECK	CSP-VG	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FOR EF-GR-1:
   1.1. BUILT-IN BAROMETRIC BACKDRAFT DAMPER.
   1.2. ECM MOTOR CONTROLLER INTEGRAL TO FAN MOTOR, WITH CONTACTS SUITABLE FOR BMS TIE-IN, GREENHECK "VARI-GREEN" OR EQUAL.

REGISTER, GRILLE, AND DIFFUSER SCHEDULE

DESIGNATION	SERVICE	TYPE	NOMINAL OVERALL DIMENSION (IN)	NECK SIZE (IN)	CFM RANGE	CONFIGURATION	BORDER TYPE	MATERIAL OF CONSTRUCTION	EQUALIZING GRID IN NECK	OPPOSED BLADE DAMPER IN NECK	FILTER RACK	FINISH COLOR	MANUFACTURER	MODEL	REMARKS
LD-A	SUPPLY	LINEAR DIFFUSER	RE: PLAN	RE: PLAN	RE: PLAN	EXTRUDED ALUMINUM BAR GRILLE WITH 1/8" BARS, 1/2" SPACING, 0° DEFLECTION	SURFACE MOUNTED WITH CONCEALED SCREW FASTENING	ALUMINUM	NO	NO	NO	WHITE FLANGES, BLACK PATTERN CONTROLLER & VISIBLE INTERNAL SURFACES	TITUS	CT-580	SEE NOTES BELOW

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
2. ALL FINISH COLORS ARE SUBJECT TO APPROVAL BY THE ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
3. COORDINATE BORDER TYPES WITH ARCHITECTURAL CEILING SPECIFICATIONS.

12/29/2022 2:10 AM Reiss, Jeremy

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

GREENVALE ELEMENTARY SCHOOL

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SECURITY CONSULTANT
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HAZARDOUS MATERIALS CONSULTANT
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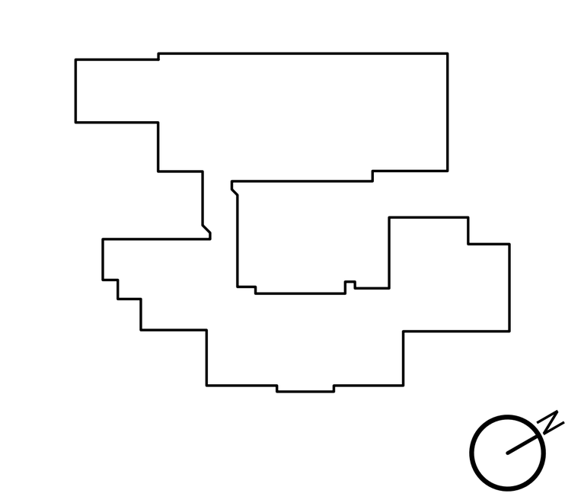
LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE, #204
PELHAM, NY 10803
914.693.0221

SEAL

ISSUE	DATE
BID SET	01/03/2023

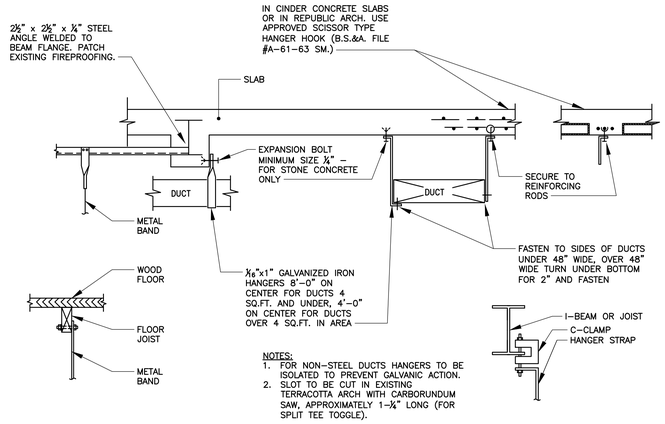
KEY PLAN



SED PROJECT NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

SCHEDULES

GR M201



TYPICAL DUCT HANGING DETAIL

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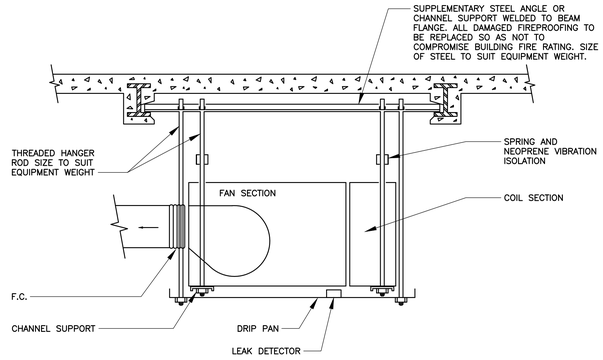
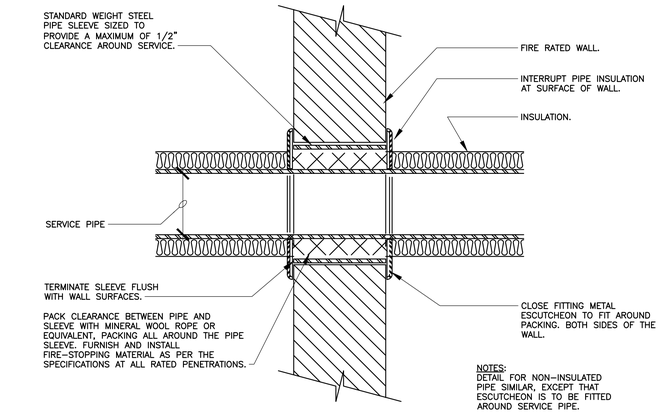


NOTES:
1. INCLUDE DRIP PAN AND LEAK DETECTOR FOR ALL CONCEALED HVAC UNITS WITH COOLING COILS (4-PIPE FAN COIL UNIT WITH HOT AND CHILLED WATER COILS, 2-PIPE FAN COIL UNIT WITH A DUAL-TEMPERATURE HOT/CHILLED WATER COIL, ETC.).
2. INCLUDE DRIP PAN AND LEAK DETECTOR FOR ALL CONCEALED HVAC UNITS WHICH ARE INTENDED FOR HEATING ONLY SERVICE, BUT WILL BE CONNECTED TO DUAL-TEMPERATURE HOT/CHILLED WATER PIPING (2-PIPE CABINET UNIT HEATERS WITH HOT WATER COIL, ETC.). THE DRIP PAN AND LEAK DETECTOR WILL BE UTILIZED AS A BACKUP TO BMS CONTROLS PROGRAMMED TO CLOSE THE CONTROL VALVE WHENEVER CHILLED WATER IS BEING CIRCULATED.

HVAC EQUIPMENT HANGING DETAIL

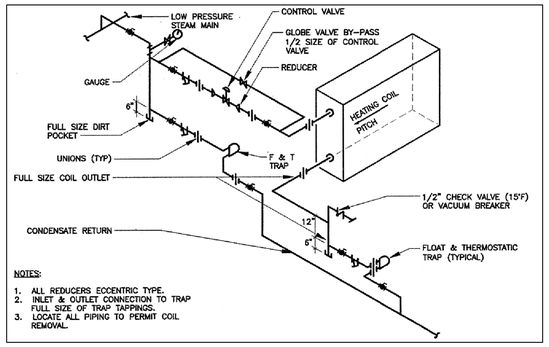
N.T.S.



NOTES:
DETAIL FOR NON-INSULATED PIPE SIMILAR, EXCEPT THAT ESCUTCHEON IS TO BE FITTED AROUND SERVICE PIPE.

DETAIL OF PIPE THROUGH RATED PARTITION OR FLOOR

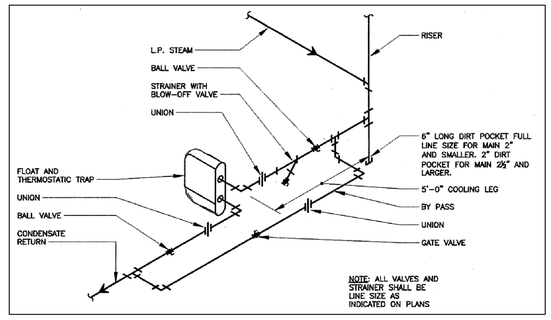
N.T.S.



NOTES:
1. ALL REDUCERS ECCENTRIC TYPE.
2. INLET & OUTLET CONNECTION TO TRAP FULL SIZE OF TRAP TAPPINGS.
3. LOCATE ALL PIPING TO PERMIT COIL REMOVAL.

STEAM COIL PIPING DETAIL

N.T.S.



STEAM TRAP PIPING DETAIL

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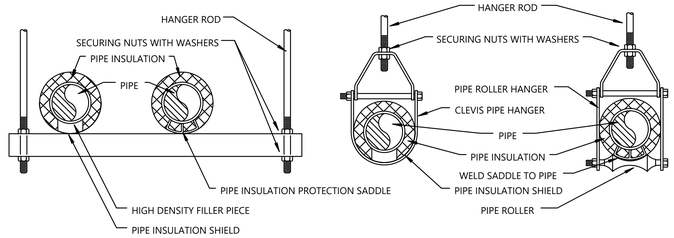

PIPE HANGING DETAIL

N.T.S.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

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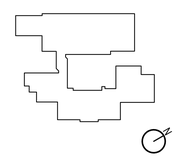


SED PROJECT NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

DETAILS

GR M301

12/29/2022 2:10 AM Reiss, Jeremy U:\Z2303082901\D_WORKING_FILES\00_MEP-\02_CAD\PHASE_2_EUFSD_VESTIBULES\SHEETS\GR\Z2303082901_GR_M001.DWG

ELECTRICAL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE GFCI TYPE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
WP	20A, 125V GFCI TYPE WEATHER RESISTANT DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – CEILING MOUNTED
	SPECIAL PURPOSE RECEPTACLE – FLUSH WALL MOUNTED
	DATA OUTLET WITH 1 1/4"E.C. UP TO CEILING. TURN 90° AND STUB AND BUSH 6" INTO ACCESSIBLE CEILING
J	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH FLOOR MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	UNFUSED DISCONNECT SWITCH
100A / 60A	FUSED DISCONNECT SWITCH – 100 AMP SWITCH, 60 AMP FUSE, UNFUSED (EXCEPT WHERE FUSE SIZE IS INDICATED) 3–POLE (EXCEPT WHERE NOTED)
	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COOR. LOCATION W/MECH. CONT.
CB 100A / 60A	CIRCUIT BREAKER 100A FRAME/60A TRIP, 3 POLE, U.O.N. ST – SHUNT TRIP
VFD	VARIABLE FREQUENCY DRIVE (VFD), FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION WITH MECH. CONTRACTOR
M	MOTOR
	PULLBOX, SIZED PER NEC
T	DRY TYPE 480–208V TRANSFORMER DELTA–WYE WITH GROUNDED SECONDARY SIDE, UON.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
GND	GROUND BAR
	2#12+1#12G–3/4"C FOR ONE CKT. HOMERUN, U.O.N.
	4#12+1#12G–3/4"C FOR TWO CKT. HOMERUN, U.O.N.
	6#12+1#12G–3/4"C FOR THREE CKT. HOMERUN, U.O.N.
	3#12+1#12G–3/4"C HOMERUN, U.O.N.
	CONCEALED CONDUIT
	CONDUIT TURNING UP
	CAPPED CONDUIT
	FLEXIBLE EQUIPMENT CONNECTION
	GROUND CONNECTION
$T	MANUAL STARTER – TOGGLE TYPE WITH THERMAL ELEMENT – 250V HP RATED, FURNISHED BY ELEC CONTRACTOR
RP	SECURITY DEVICE REPEATER

LIGHTING CONTROL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
$	SINGLE POLE LINE VOLTAGE SWITCH
$K	KEY ACTIVATED LINE VOLTAGE SWITCH
DS	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MTD.
VS	DUAL TECHNOLOGY VACANCY SENSOR, CEILING MTD.
WS M	LOW VOLTAGE LIGHTING CONTROL MASTER LIGHTING CONTROL WALL STATION
WS K,OR	LOW VOLTAGE LIGHTING CONTROL LOCAL LIGHTING CONTROL WALL STATION ("OR" DENOTES VACANCY SENSOR OVERRIDE, "K" DENOTES KEY SWITCH)
PC	EXTERIOR LIGHTING PHOTOCELL

FIRE ALARM SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
S	CEILING MOUNTED ADDRESSABLE SMOKE DETECTOR
D	DUCT SMOKE DETECTOR
F	COMBINATION FIRE ALARM BELL/STROBE LIGHT UNIT – FLUSH WALL MOUNTED (WITH ADJUSTABLE CANDELA RATING)
F	FIRE ALARM PULL STATION
R	FIRE ALARM RELAY
RAN	FIRE ALARM REMOTE ANNUNCIATOR PANEL

ELECTRICAL ABBREVIATIONS

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

A	AMPERE	KCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	KV	KILOVOLT
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AHJ	AUTHORITY HAVING JURISDICTION	KW	KILOWATT
AIC	AMP INTERRUPTING CAPACITY	KWH	KILOWATT HOUR
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUTO	AUTOMATIC	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
BLDG	BUILDING	MCC	MOTOR CONTROL CENTER
C	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	N	NEUTRAL
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CO	CARBON MONOXIDE	NTS	NOT TO SCALE
COMM	COMMUNICATION	OC	ON CENTER
CT	CURRENT TRANSFORMER	P	POLE
CU	COPPER	# or PH	PHASE
DEG	DEGREE	PNL	PANEL
DGP	DATA GATHERING PANEL	PWR	POWER
DISC	DISCONNECT	R	RELOCATED
DN	DOWN	RECEPT	RECEPTACLE
DWG	DRAWING	TEL	TELEPHONE
E/EX	EXISITNG TO REMAIN	TOS	TOP OF SHAFT
EC	ELECTRICAL CONTRACTOR	TV	TELEVISION
EM	EMERGENCY	TYP	TYPICAL
ER	EXISTING TO BE REMOVED	UON	UNLESS OTHERWISE NOTED
ERR	EXISTING TO BE REMOVED AND RELOCATED	V	VOLT OR VOLTAGE
FA	FIRE ALARM	VA	VOLT AMPERE
FACP	FIRE ALARM CONTROL PANEL	VIF	VERIFY IN FIELD
FL	FLOOR	W	WATT
FT	FEET OR FOOT	WP	WEATHERPROOF
GRD	GROUND	WT	WATERTIGHT
GFI	GROUND FAULT INTERRUPTER	XP	EXPLOSION PROOF
HID	HIGH INTENSITY DISCHARGE		
HP	HORSE POWER		
HZ	HERTZ		
JB	JUNCTION BOX		

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 1998 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

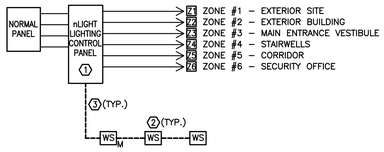
REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

ELECTRICAL DRAWING LIST

Sheet Number	Sheet Title
GR E001	COVER SHEET
GR E002	ELECTRICAL GENERAL NOTES
GR E101	THIRD FLOOR VESTIBULE ELECTRICAL PARTIAL PLANS
GR E201	SITE LIGHTING PLAN
GR E301	SECURITY POWER PLANS
GR E601	ELECTRICAL PANEL SCHEDULES

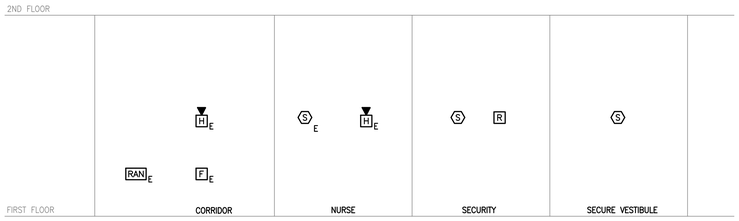


KEY NOTES:

1. REFER TO POWER PLAN FOR LIGHTING CONTROL PANELS/LOCATIONS.
2. COORDINATE EXACT LOCATION OF ALL SWITCHES WITH OWNER/ARCHITECT IN FIELD. REFER TO ELECTRICAL LIGHTING PLAN DRAWINGS FOR QUANTITY
3. LOW VOLTAGE WIRING TYPE AS PER MANUFACTURER.

TYPICAL LIGHTING RELAY CONTROL PANEL, U.O.N

N.T.S.



PARTIAL FIRE ALARM RISER

N.T.S.

FIRE ALARM GENERAL NOTES:

1. PROVIDE ALL EQUIPMENT, PROGRAMMING & WIRING REQUIRED FOR A COMPLETE CODE COMPLIANT SYSTEM.
2. PROVIDE ALL FILING, PERMIT & FIRE DEPARTMENT INSPECTION FEES.
3. ALL NOTIFICATION AND SIGNAL LINE CIRCUITS SHALL BE CLASS B WIRING WITHOUT T–TAPPING OF CIRCUITS.
4. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE EXACT SEQUENCE OF OPERATIONS.
5. SMOKE DETECTORS SHALL BE A MINIMUM OF 3 FEET FROM ALL SUPPLY DIFFUSERS.
6. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT WHEN RUN EXPOSED IN MECHANICAL ROOMS. PROVIDE CONDUIT CONCEALED IN WALLS UP TO ACCESSIBLE CEILING WITH INSULATING BUSHING FOR ALL WALL MOUNTED FIRE ALARM DEVICES.
7. ALL FIRE ALARM EQUIPMENT SHALL BE APPROVED BY LOCAL AHJ PRIOR TO ORDERING.
8. FIRE ALARM RISER IS A DIAGRAMMATIC REPRESENTATION OF THE SYSTEM. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
9. ALL FIRE ALARM CABLING SHALL BE PLENUM RATED AND MEET PATHWAY SURVIVABILITY LEVEL 2.
10. ALL FIRE ALARM ANNUNCIATING DEVICES SHALL BE "RED".
11. PROVIDE A CONTROL MODULE AND RELAY FOR ALL FIRE SMOKE DAMPERS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES. PROVIDE DUCT SMOKE DETECTORS TO ACTIVATE FIRE SMOKE DAMPERS AS REQUIRED.
12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT INCLUDE MANUFACTURER'S CUT SHEETS WITH EQUIPMENT MODEL NUMBERS, BATTERY CALCULATIONS, CONDUCTOR TYPE AND SIZES, AND VOLTAGE DROP CALCULATIONS.
13. REMOVE EXISTING FIRE ALARM DEVICES IN SCOPE OF WORK AREA WHERE NEW DEVICES ARE INDICATED.
14. ALL NEW FIRE ALARM DEVICES SHALL BE TIED INTO EXISTING ADDRESSABLE FIRE ALARM LOOPS. PROVIDE ADDITIONAL ADDRESSABLE CARDS/AMPLIFIER/POWER SUPPLY/WIRING AND CONDUIT AS REQUIRED.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE / CCT / LUMENS / CRI	VOLTS	NOTES
G1	3' ROUND PENDANT	SCOTT ARCH LTG	S2A57-L96-35K-GT	96 / 3500K / 9600 / 80	UNV	INVERTER DSPM CMIC-350-120/120
G2	2X2 FLAT PANEL	METALUX	22FP3235C	29 / 3500K / 3307 / 80	UNV	EL14W EM PACK WHERE INDICATED
G3	2X4 FLAT PANEL	METALUX	24FP4735C	41 / 3500K / 4591 / 80	UNV	EL14W EM PACK WHERE INDICATED
EM1	EMERGENCY LIGHT	LITHONIA	ELM4L	3W	UNV	MOUNT AT 8' AFF
X1	LED EDGE-LIT EXIT SIGN	LITHONIA	LRP 1/2 RC/RMR 120/277 EL N	2W	UNV	SHIP WITH ALL MOUNTING OPTIONS DIRECTIONAL INDICATORS PER PLANS
X2	EXIT SIGN	LITHONIA	LQM S W 3 R 120/277 EL N M6 ELA LQMUS12	1W	UNV	SHIP WITH ALL MOUNTING OPTIONS DIRECTIONAL INDICATORS PER PLANS

EXTERIOR LIGHTING SCHEDULE

Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	BUG Rating	Mounting Height
	2	P-G2-T3	Single	GLEON-SA2C-730-U-T3	0.912	13182	113	226	B2-U0-G2	15
	2	P-G2-5WQ-2	Back-Back	GLEON-SA2C-730-U-5WQ	0.912	13881	113	452	B4-U0-G2	20
	1	G2-T4FT	Single	GWC-SA2C-730-U-T4FT Wall	0.912	13523	113	113	B2-U0-G3	22
	1	G1-T2	Single	GWC-SA1C-730-U-T2 Wall	0.912	6750	59	59	B1-U0-G2	10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

GREENVALE ELEMENTARY SCHOOL

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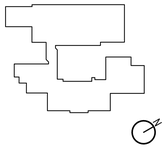
SEAL

BID SET	01/03/2023
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

COVER SHEET

GR E001

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, BUILDING DEPARTMENT, BUILDING MANAGEMENT, ALL AUTHORITIES HAVING JURISDICTION, AND APPLICABLE NATIONAL, STATE, AND LOCAL CODES. LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM THE ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION OF LAWS AND REGULATIONS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.
2. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATED TO THE WORK AS INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF BID, AND, IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF SWITCHES, LIGHT FIXTURES, RECEPTACLES, ETC. WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.
4. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTIONS, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, TELECOM/AV/SECURITY, PLUMBING, AND FIRE PROTECTION AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.
5. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE ELECTRICAL WORK, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL WITHOUT ADDITIONAL COST.
6. THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL, A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, JUNCTION BOXES, PULL BOXES, ETC. THIS CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLATION OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID.
7. REMOVAL, TEMPORARY CONNECTIONS, AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.
8. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO ENSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE ORGANIZED WITH BUILDING MANAGEMENT. PROVIDE TEMPORARY FEEDERS, CIRCUITRY, ETC., AS REQUIRED TO MINIMIZE DOWNTIME.
9. DISCONNECTS SHALL BE 'QUICK—BREAK' HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE FUSED OR UN—FUSED AS INDICATED ON THE DRAWINGS. FUSES FOR SWITCHES SHALL BE CURRENT LIMITING TYPE WITH AN INTERRUPTING CAPACITY OF 200,000 RMS AMPERES AND OF THE CONTINUOUS CURRENT RATING AS SHOWN ON THE DRAWINGS.
10. CIRCUIT BREAKERS SHALL BE 'THERMAL MAGNETIC' TYPE, QUICK—MAKE, QUICK—BREAK WITH NON—WELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES AND SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL FOR 120/208V PANELS AND 14,000 AMPERES SYMMETRICAL FOR 277/480V PANELS OR HIGHER WHERE NOTES.
11. CONDUIT SHALL BE RIGID THREADED REGARDLESS OF SIZE IN LOCATIONS PER PROJECT SPECIFICATIONS.
12. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION, UNLESS OTHERWISE NOTED. UNLESS SPECIFIED ALL WIRE #10 AWG AND SMALLER SHALL BE SOLID CONDUCTORS AND 8 AWG AND LARGER SHALL BE STRANDED.
13. BRANCH CIRCUIT WIRE SIZE: THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG EXCEPT 120V CIRCUITS OVER 80 FEET IN LENGTH SHALL BE 10 AWG.
14. PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD SHALL STEEL.
15. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.
16. PULL BOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.
17. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULL BOXES, AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE BOX. IF NECESSARY AND APPROVED BY OWNER/ENGINEER, PROVIDE ACCESS DOOR OR COVER PLATES IN AREAS WHERE UNOBSTRUCTED ACCESS IS NOT POSSIBLE.
18. OPENINGS AROUND ELECTRICAL PENETRATION THROUGH FIRE RESISTANCE RATED WALL, PARTITIONS, FLOOR OR CEILING SHALL BE FIRE STOPPED USING APPROVED METHODS. SEALANT SHALL BE RATED FOR THREE (3) HOURS.
19. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:
    - RECEPTACLES AND TELEPHONES — 1' 6"
    - GENERALLY — 3' 6"
    - OVER WORK BENCHES — COORDINATE WITH ARCHITECT
    - WALL SWITCHES — COORDINATE WITH ARCHITECT
    - WALL FIXTURES — 6' 0"
    - MOTOR CONTROLLERS — 5' 0"
    - FIRE ALARM PULL STATIONS — 4' 0"
    - FIRE ALARM HORN/SPEAKER/STROBES — 6' 8" AFF OR 6" BELOW CEILING (WHICHEVER IS GREATER)

    EXCEPTIONS: AT JUNCTION BOXES OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE REQUIREMENTS, AS NOTED OR DIRECTED.
20. PROVIDE WEIGHTS, LOCATIONS, AND DIMENSIONS OF EQUIPMENT IN EXCESS OF 200 LBS. SUPPORTED ON FLOOR OR HUNG FROM BUILDING STRUCTURE TO BASE BUILDING STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
21. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH HVAC, PLUMBING, FIRE PROTECTION, TELECOM/AV/SECURITY, AND OTHER TRADES FOR EXACT LOCATION OF ALL MOTOR AND CONTROL DEVICES, BACK BOXES, AND CONDUIT REQUIREMENTS. LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE.
22. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF "WHILE IN USE" COVERS.
23. ALL FIRE ALARM NOTIFICATION APPLIANCES SHALL BE "RED."

ELECTRICAL LIGHTING NOTES

A. FOR EXACT ELEVATION, LOCATION, QUANTITY AND SPECIFICATIONS OF LIGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ARCHITECT IN THE FIELD.

B. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.

D. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.

E. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.

F. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.

G. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTOR.

H. ALL LIGHT FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK CAPABLE OF FULL LIGHT OUTPUT FOR MINIMUM 90 MINUTES.

I. EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELLS AND TIMECLOCKS WITH A MANUAL OVERRIDE SWITCHES LOCATED IN ELECTRICAL ROOMS.

ELECTRICAL DEMOLITION NOTES

1. GENERAL

1.1. SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR NUMBER OF LIGHTING FIXTURES AND DEVICES TO BE REMOVED AND OR RELOCATED.

1.2. SEE HVAC DRAWINGS FOR HVAC EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.

1.3. SEE PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT TO BE REMOVED.

1.4. FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVED CONDUIT/WIRING BACK TO PANEL.

1.5. REMOVE ALL DRYWALL MOUNTED DUPLEX RECEPTACLES AND ASSOCIATED CIRCUITING. WHERE OUTLETS ARE REMOVED AND THROUGH CIRCUITING SERVE OTHER OUTLETS BEYOND THE DEMOLITION AREA, RESTORE OR MAINTAIN THROUGH CIRCUITING.

1.6. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO BUNDLE, NEATEN, AND CLEAN UP EXISTING LOOSE CABLING INCLUDING BUT NOT LIMITED TO LOW VOLTAGE CABLING, FIRE ALARM CABLING, MC CABLING, ETC. WHERE CEILINGS ARE EXPOSED, CONTRACTOR SHALL REINSTALL ALL EXISTING CABLING IN EMT CONDUIT AS CLOSE TO UNDERSIDE OF STRUCTURE AS POSSIBLE.

1.7. REMOVE ALL CLIPS AND HANGERS FROM CEILING SLAB AND REPAIR IF REQUIRED.

2. EXISTING CONDUIT

2.1. THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION. REMOVE ALL WIRING BACK TO EXISTING PANELS.

3. EXISTING ELECTRICAL PANELS

3.1. CONTRACTOR SHALL USE CARE IN DISCONNECTING WIRING FROM PANELS AND CIRCUIT BREAKERS. CAREFULLY STORE ALL PANEL COVERS AS CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE USABLE PANEL INSTALLATION.

4. EXISTING LIGHTING FIXTURES

4.1. REMOVE AND/OR RELOCATE LIGHTING FIXTURES AND DETERMINED IF BALLAST CONTAIN PCB. AS DIRECTED TURN OVER TO OWNER ALL FIXTURES OR DISPOSE OF THEM IN AN APPROVED MANNER. IF FIXTURES CONTAIN BALLASTS WITH PCB REMOVE BALLASTS FROM FIXTURES AND DISPOSE OF IN AN APPROVED MANNER.

4.2. CONTRACTOR SHALL PULL OUT ALL WIRING AND REMOVE ALL CONDUIT. FOR OVERHEAD LIGHTING CIRCUITS RUN IN CELLULAR DECK REMOVE WIRING AND PROPERLY BLANK OFF OUTLET BOXES.

4.3. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.

4.4. DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL FOR EQUIPMENT TO BE REMOVED.

5. EXISTING FIRE ALARM

5.1. NO EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX OR SIMILAR SERVICES INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION.

5.2. NO ACTIVE SMOKE DETECTOR SHALL BE COVERED OR OTHERWISE RENDERED INEFFECTIVE FOR ITS INTENDED PURPOSE.

5.3. ALL ACTIVE SMOKE DETECTION, PUBLIC ADDRESS AND FIRE ALARM SYSTEM SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. ANY DAMAGES TO THESE SYSTEMS AS A RESULT OF CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND CONSTRUCTION MANAGER.

5.4. DURING DEMOLITION WORK CONTRACTOR IS TO PROTECT FIRE ALARM DEVICES AGAINST DUST AND OTHER PARTICLES.

6. TEMPORARY LIGHTING AND POWER

6.1. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS FOR THE PROJECT.

6.2. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS AT ALL TIMES.

6.3. FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.

6.4. REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES.

6.5. TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE NORMAL WORK DAY.

6.6. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

ELECTRICAL POWER NOTES

A. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT IN FIELD FOR EXACT LOCATION, QUANTITY AND ELEVATION OF POWER AND TELEPHONE/DATA OUTLETS PRIOR TO INSTALLATION.

B. RECEPTACLES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH DEVICE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.

D. EXACT LOCATIONS FOR ALL MECHANICAL EQUIPMENT SHALL BE DETERMINED FROM THE MECHANICAL DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR IN FIELD.

E. WHERE APPLICABLE, RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMET END FITTINGS FOR TELEPHONE/DATA & PROVIDE DRAG LINES FOR PULLING CABLE.

F. COORDINATE THE HARDWARE REQUIREMENTS FOR THE DOORS WITH THE ARCHITECT & SECURITY CONSULTANT PRIOR TO INSTALLATION (I.E. ELECTRIC HINGES, CARD READERS, ELECTRIC STRIKES, MAGNETIC SWITCHES, POWER SUPPLIES, ETC.) PROVIDE A BACKBOX WITH 1" CONDUIT WITH DRAG LINES STUBBED UP ABOVE CEILING FOR ALL LOW VOLTAGE DEVICES SUCH AS CARD READERS, MAGNETIC LOCKS, ELECTRIC LOCKSET, ELECTRIC STRIKE, ETC.

G. ALL BRANCH CIRCUIT HOME RUNS SHALL BE 2#12 & 1#12 GND IN 3/4" CONDUIT OR MC CABLE IN LOCATIONS PERMITTED PER PROJECT SPECIFICATIONS TO PANEL & CIRCUIT INDICATED. MAXIMUM OF THREE HOME RUNS PER CONDUIT.

H. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO FURNITURE PARTITIONS SHALL BE PROVIDED WITH MEANS TO DISCONNECT POWER SIMULTANEOUSLY.

I. ELECTRICAL CONTRACTOR SHALL PROVIDE A BACKBOX AND 1" EMPTY CONDUIT WITH DRAG LINE FOR ALL IN—WALL WIRED KEYPADS AND TOUCHSCREENS. REFER TO LOW VOLTAGE DRAWINGS FOR EXACT LOCATIONS AND SPECIFICATIONS.

J. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS, PLUMBING DRAWINGS, AND COORDINATE WITH MECHANICAL CONTRACTOR AND PLUMBING CONTRACTOR FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE DISCONNECT SWITCHES AND CIRCUITING SIZED PER THEIR EQUIPMENT SCHEDULES. HEAT TRACE CIRCUITS SHALL BE PROTECTED BY 30mA GROUND FAULT TYPE CIRCUIT BREAKERS. PROVIDE (3) FIRE ALARM MONITOR MODULES FOR EACH HEAT TRACE CONTROLLER SERVING SPRINKLER PIPES. PROVIDE (4) MONITOR MODULES FOR EACH DRY PIPE COMPRESSOR.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AUDIO/VISUAL, TELECOM, AND SECURITY DRAWINGS AND CONTRACTORS FOR ANY ADDITIONAL BACKBOX, CONDUIT, AND POWER REQUIREMENTS.

L. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE VOLTAGE, PHASE, AND HORSEPOWER OF ALL ELECTRICAL EQUIPMENT PURCHASED AND SUPPLIED TO THE SITE. ELECTRICAL CONTRACTOR SHALL SUPPLY FUSES OR CIRCUIT BREAKERS PER MANUFACTURER'S RECOMMENDATIONS WHERE NECESSARY.

M. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE TYPEWRITTEN PANEL SCHEDULE DIRECTORY IN ANY PANEL UNDERGOING WORK AT PROJECT COMPLETION OF ALL CIRCUITS UTILIZED, IDENTIFYING THE LOADS THAT THEY ARE SERVING.

N. ALL JUNCTION BOXES AND DISCONNECT SWITCH LOCATIONS SHALL BE COORDINATED IN THE FIELD. JUNCTION BOXES AND DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT ABOVE CEILINGS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE FROM ACCESS PANELS. COORDINATE WITH MECHANICAL CONTRACTOR.

O. ELECTRICAL CONTRACTOR SHALL INSTALL ALL STARTERS, AND VARIABLE FREQUENCY DRIVES (FURNISHED BY MECHANICAL CONTRACTOR) AND PROVIDE CONDUIT AND WIRING TO AND FROM STARTERS AND VFDs TO MECHANICAL EQUIPMENT AND/OR ITS ASSOCIATED DISCONNECT SWITCHES. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND REQUIREMENTS.

ELECTRICAL - IT/AV/SECURITY COORDINATION NOTES

1. ELECTRICAL CONTRACTOR SHALL REFER TO IT/AV/SECURITY DRAWINGS AND COORDINATE WITH IT/AV/SECURITY CONSULTANT/VENDOR AND ARCHITECT/INTERIOR DESIGNER TO PRVIDE THE FOLLOWING:

1.1. SERVICE ENTRANCE CONDUITS AND CONDUIT BETWEEN MDF AND IDF ROOMS — TYPE, SIZE, QUANTITY, SPACING AND ROUTING.

1.2. BACKBOXES — TYPE, SIZE, HEIGHT, AND LOCATIONS.

1.3. EQUIPMENT RACKS — TERMINATION TYPE AND POWER REQUIREMENTS.

1.4. ELECTRICAL DEVICES — PUG TYPE, SIZE, HEIGHT, LOCATION AND FACEPLATE

2. PROVIDE ALL CIRCUITS REQUIRED FOR HEAD END EQUIPMENT. COORDINATE EXACT RECEPTACLE TYPES WITH EQUIPMENT TO BE POWERED.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

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SEAL

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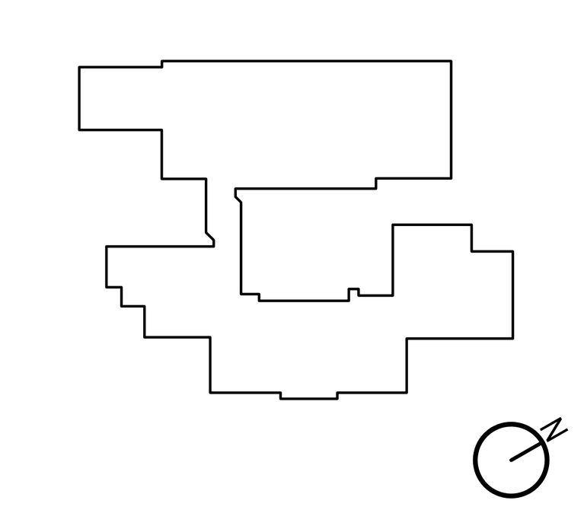
KEY PLAN



SED PROJECT NO. 66-03-01-03-0-006-015
MEMASI PROJECT NO. 102-2202

ELECTRICAL GENERAL NOTES

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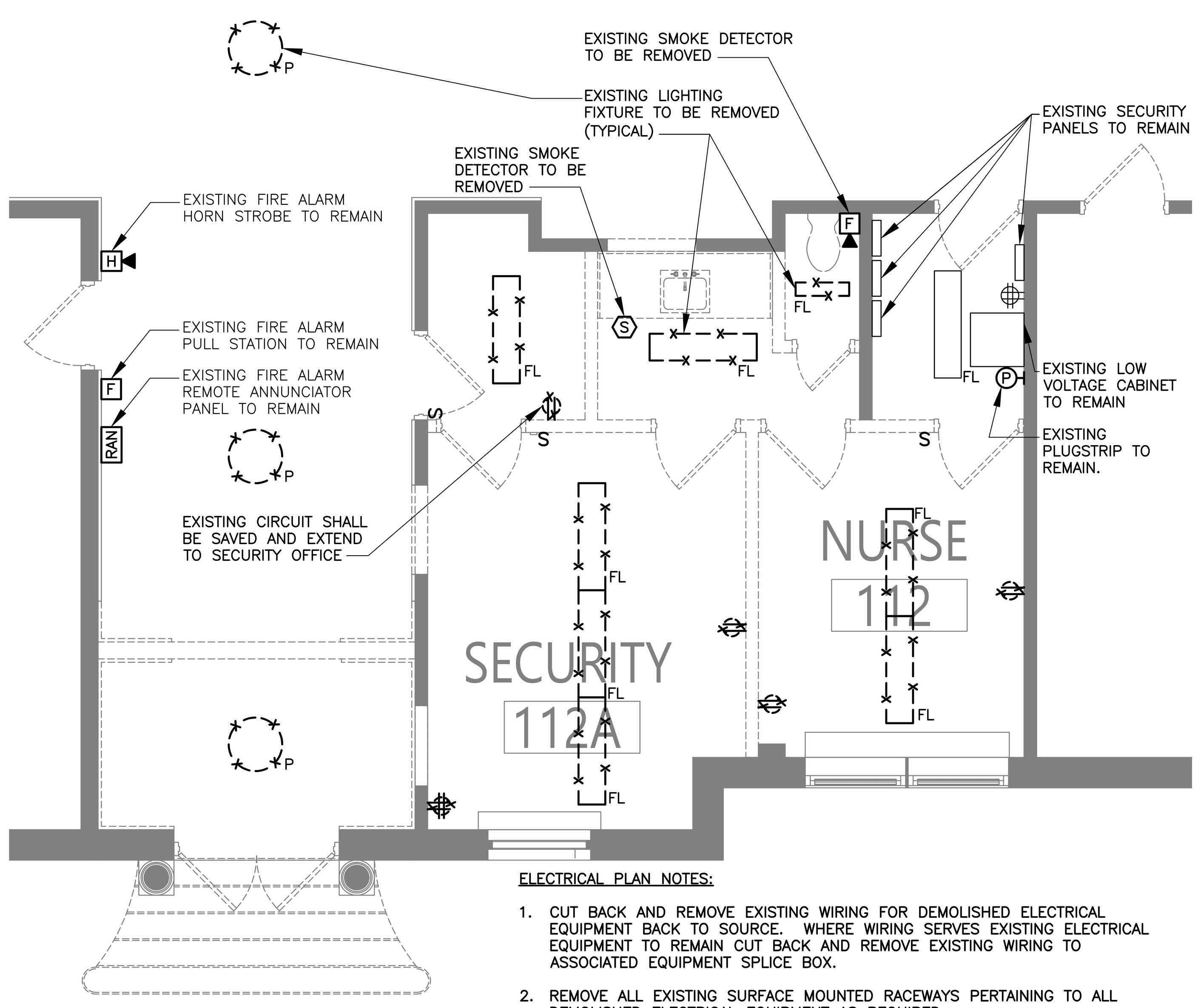
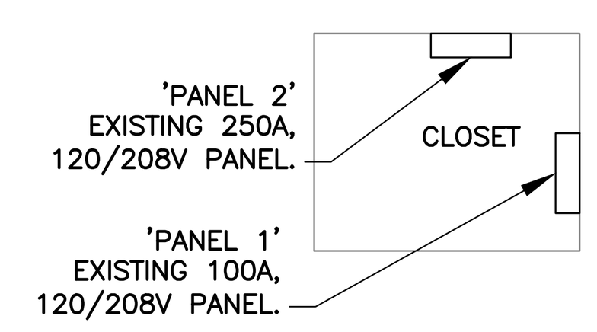


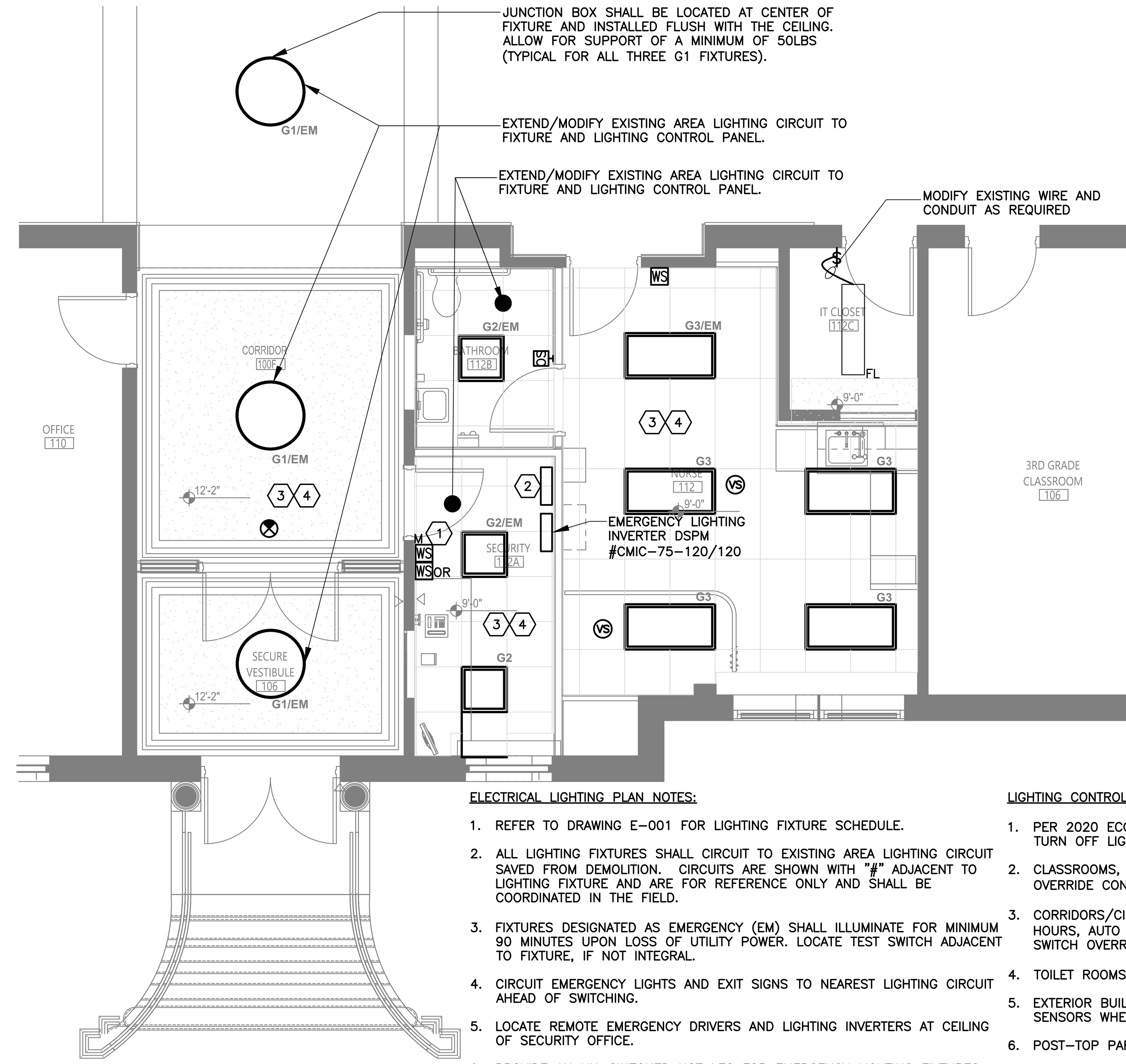
ELECTRICAL PLAN NOTES:

1. CUT BACK AND REMOVE EXISTING WIRING FOR DEMOLISHED ELECTRICAL EQUIPMENT BACK TO SOURCE. WHERE WIRING SERVES EXISTING ELECTRICAL EQUIPMENT TO REMAIN CUT BACK AND REMOVE EXISTING WIRING TO ASSOCIATED EQUIPMENT SPLICE BOX.
2. REMOVE ALL EXISTING SURFACE MOUNTED RACEWAYS PERTAINING TO ALL DEMOLISHED ELECTRICAL EQUIPMENT AS REQUIRED.
3. REFER TO SECURITY DRAWINGS FOR SCOPE PERTAINING TO EXISTING SECURITY DEVICES, EQUIPMENT, AND ASSOCIATED WIRING AND RACEWAYS.

THIRD FLOOR VESTIBULE DEMOLITION PARTIAL PLAN

1/4" = 1'-0"





ELECTRICAL LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING FIXTURE SCHEDULE.
2. ALL LIGHTING FIXTURES SHALL CIRCUIT TO EXISTING AREA LIGHTING CIRCUIT SAVED FROM DEMOLITION. CIRCUITS ARE SHOWN WITH "#" ADJACENT TO LIGHTING FIXTURE AND ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED IN THE FIELD.
3. FIXTURES DESIGNATED AS EMERGENCY (EM) SHALL ILLUMINATE FOR MINIMUM 90 MINUTES UPON LOSS OF UTILITY POWER. LOCATE TEST SWITCH ADJACENT TO FIXTURE, IF NOT INTEGRAL.
4. CIRCUIT EMERGENCY LIGHTS AND EXIT SIGNS TO NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING.
5. LOCATE REMOTE EMERGENCY DRIVERS AND LIGHTING INVERTERS AT CEILING OF SECURITY OFFICE.
6. PROVIDE AN UN-SWITCHED HOT LEG FOR EMERGENCY LIGHTING FIXTURES WITH INTEGRAL EMERGENCY BATTERY PACKS.
7. WIRING FOR EXIT SIGNS SHALL BE AHEAD OF ANY SWITCHING.

LIGHTING CONTROL NOTES:

1. PER 2020 ECCCNYS, OCCUPANCY/VACANCY SENSORS SHALL AUTOMATICALLY TURN OFF LIGHTS 20 MINUTES AFTER SPACE IS UNOCCUPIED.
2. CLASSROOMS, OFFICES – MANUAL ON, VACANCY SENSOR AUTO OFF. MANUAL OVERRIDE CONTROLS FOR ON/OFF, DIM UP, DIM DOWN.
3. CORRIDORS/CIRCULATION/VESTIBULES – TIME SCHEDULE DURING OCCUPIED HOURS, AUTO ON/OFF VIA OCCUPANCY SENSOR AFTER HOURS. PROVIDE KEY SWITCH OVERRIDE IN SECURITY OFFICE.
4. TOILET ROOMS – AUTO ON/OFF VIA OCCUPANCY SENSOR.
5. EXTERIOR BUILDING-MOUNTED FIXTURES: DUSK TO DAWN CONTROL. MOTION SENSORS WHERE SPECIFIED.
6. POST-TOP PARKING LOT FIXTURES: DUSK TO DAWN CONTROL.

KEY NOTES:

(1) MASTER LIGHTING CONTROL STATION FOR BUILDING AND SITE. PROGRAMMABLE TIME SCHEDULES FOR EACH CONTROL ZONE AND MANUAL ON/OFF OVERRIDE. OCCUPANCY SENSOR AUTO ON/OFF OUTSIDE OF SCHEDULED OCCUPIED HOURS. LOCKABLE WITH PASSCODE. CONTROL ZONES:
   1. EXTERIOR SITE
   2. EXTERIOR BUILDING
   3. MAIN ENTRANCE VESTIBULE, STAIRWELLS, CORRIDORS

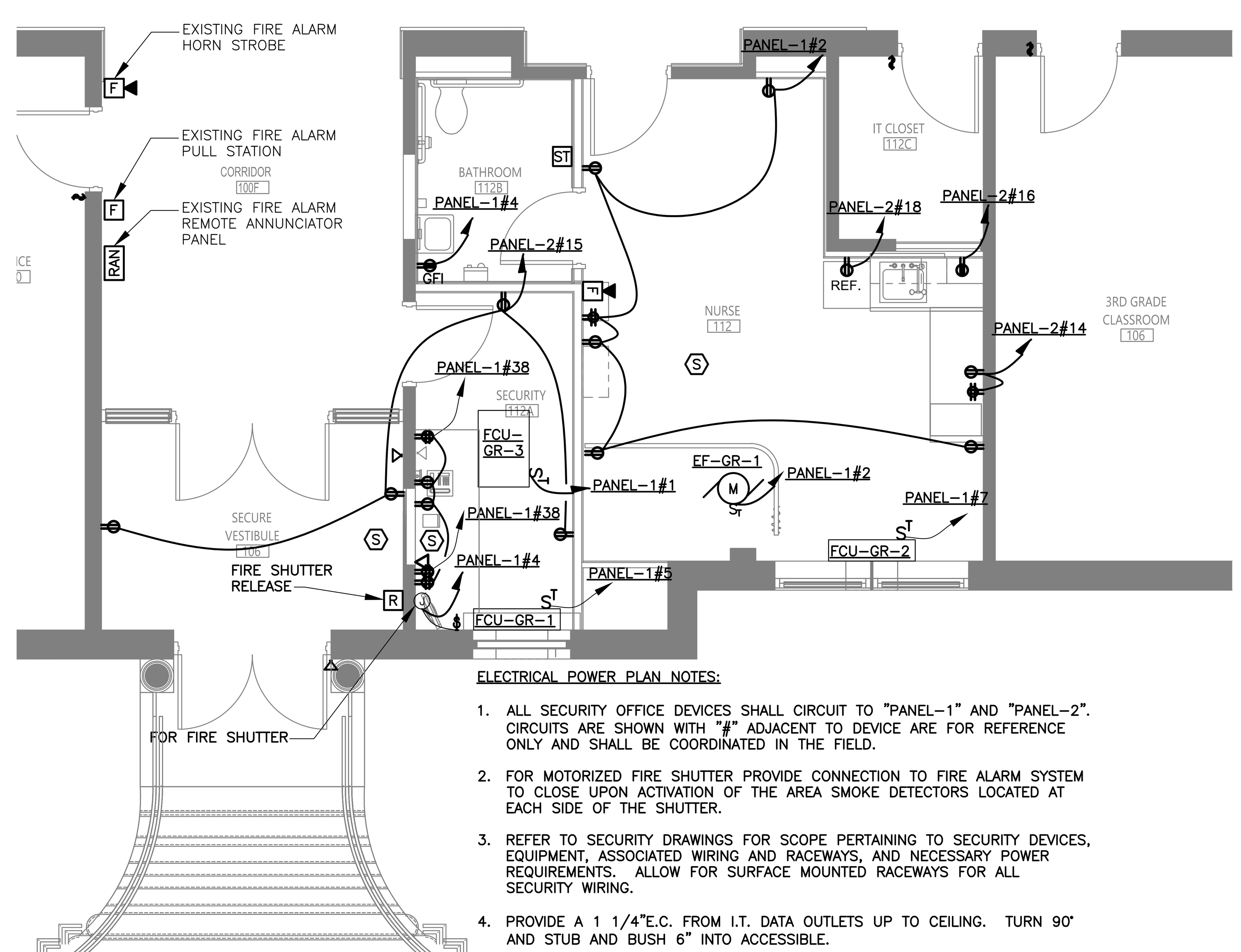
(2) LIGHTING CONTROL PANEL WITH EIGHT RELAYS. ACCUITY BRANDS nLIGHT #ARP-INTENCO-NLT-8SPR.

(3) PROVIDE LOW VOLTAGE WIRING FROM AREA VACANCY SENSORS AND WALL STATIONS BACK TO LIGHTING CONTROL PANEL LOCATED IN THE MECHANICAL ROOM ABOVE.

(4) LIGHTING FIXTURE CIRCUIT WIRING SHALL WIRE THROUGH LIGHTING CONTROL PANEL.

THIRD FLOOR VESTIBULE PARTIAL LIGHTING PLAN

1/4" = 1'-0"



ELECTRICAL POWER PLAN NOTES:

1. ALL SECURITY OFFICE DEVICES SHALL CIRCUIT TO "PANEL-1" AND "PANEL-2". CIRCUITS ARE SHOWN WITH "#" ADJACENT TO DEVICE ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED IN THE FIELD.
2. FOR MOTORIZED FIRE SHUTTER PROVIDE CONNECTION TO FIRE ALARM SYSTEM TO CLOSE UPON ACTIVATION OF THE AREA SMOKE DETECTORS LOCATED AT EACH SIDE OF THE SHUTTER.
3. REFER TO SECURITY DRAWINGS FOR SCOPE PERTAINING TO SECURITY DEVICES, EQUIPMENT, ASSOCIATED WIRING AND RACEWAYS, AND NECESSARY POWER REQUIREMENTS. ALLOW FOR SURFACE MOUNTED RACEWAYS FOR ALL SECURITY WIRING.
4. PROVIDE A 1 1/4"E.C. FROM I.T. DATA OUTLETS UP TO CEILING. TURN 90° AND STUB AND BUSH 6" INTO ACCESSIBLE.
5. REFER TO ARCHITECTURAL ELEVATIONS FOR RECEPTACLE LAYOUT AT SECURITY OFFICE.

THIRD FLOOR VESTIBULE PARTIAL POWER PLAN

1/4" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

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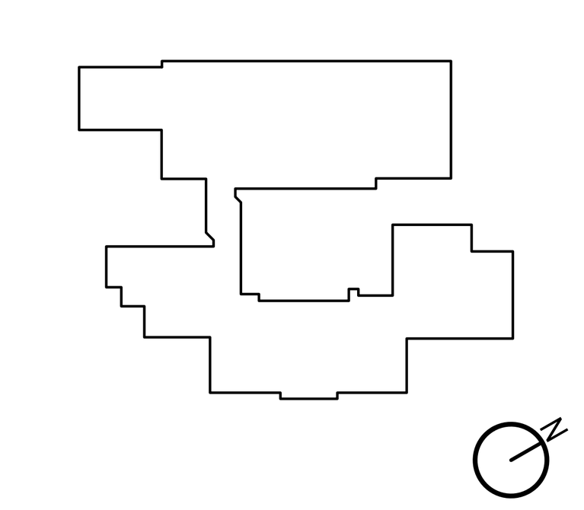
SEAL

BID SET	01/03/2023
ISSUE	DATE

KEY PLAN



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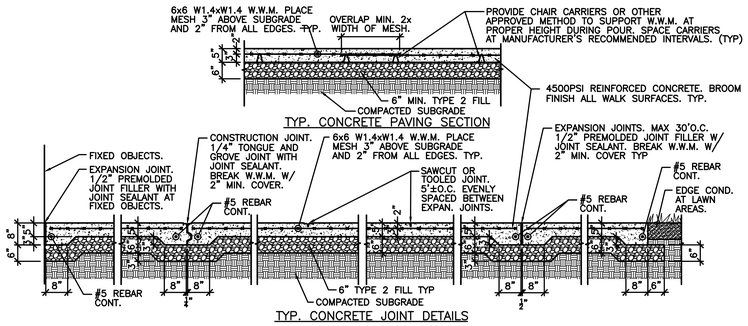
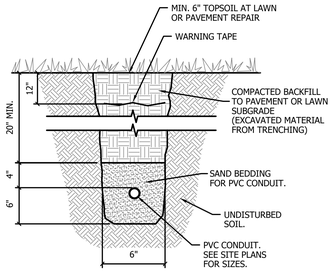
THIRD FLOOR VESTIBULE ELECTRICAL PARTIAL PLANS

GR E101

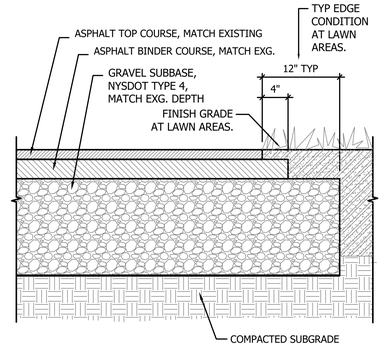


CONCRETE PAVING DETAIL
SCALE: N.T.S.

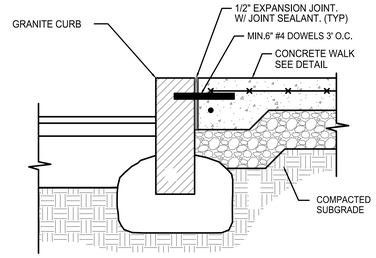


ELECTRICAL CONDUIT TRENCH DETAIL
SCALE: N.T.S.

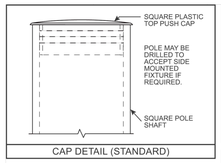
ALL ELECTRICAL RELATED EXCAVATION , COMPACTION , BACKFILL AND RESTORATION OF SURFACES IS BY ELECTRICAL PRIME CONTRACTOR



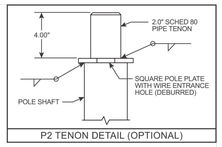
ASPHALT PAVEMENT REPAIR DETAIL
SCALE: N.T.S.



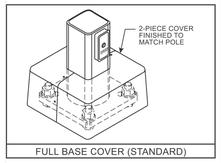
CONCRETE WALK AT GRANITE CURB DETAIL
SCALE: N.T.S.



CAP DETAIL (STANDARD)

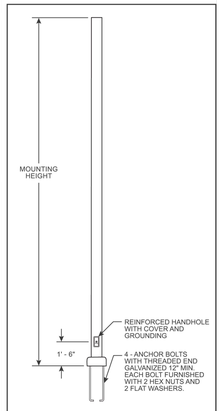


P2 TENON DETAIL (OPTIONAL)



FULL BASE COVER (STANDARD)

POLE BASE AND HANDHOLE DETAIL



POLE DETAIL

LIGHTING POLE SPECIFICATIONS (LIGHT POLES PLUS SQUARE STRAIT STEEL WITH ANCHOR BASE AS STANDARD):

- POLE SHAFT – SQUARE STRAIT STEEL FABRICATED FROM HOT ROLLED WELDED STEEL TUBING OF ONE–PIECE CONSTRUCTION WITH A MINIMUM YIELD STRENGTH OF 55 KSI.
- POLE TOP – A REMOVABLE TOP CAP WITH TOP AS DIRECTED BY ARCHITECT.
- HAND HOLE – REINFORCED HAND HOLE WITH GROUNDING PROVISION IS PROVIDED AT 1'–6" FROM THE BASE END OF THE POLE ASSEMBLY WITH COVER AND COVER ATTACHMENT HARDWARE. HAND HOLE SHALL HAVE A MINIMUM 2.5" X 5" RECTANGULAR DIMENSION
- BASE COVER TWO–PIECE FULL BASE COVER FABRICATED FROM STEEL
- ANCHOR BOLTS – ANCHOR BOLTS TO CONFORM TO ASTM F1554 GRADE 55. BOLTS SHALL BE GALVANIZED A MINIMUM OF 12" ON THE THREADED END.
- HARDWARE – ALL FASTENERS SHALL BE GALVANIZED HIGH STRENGTH CARBON STEEL.
- FINISH – PAINT OVER GALVANIZED WITH COLOR AS DIRECTED PER ARCHITECT.

GENERAL NOTES:

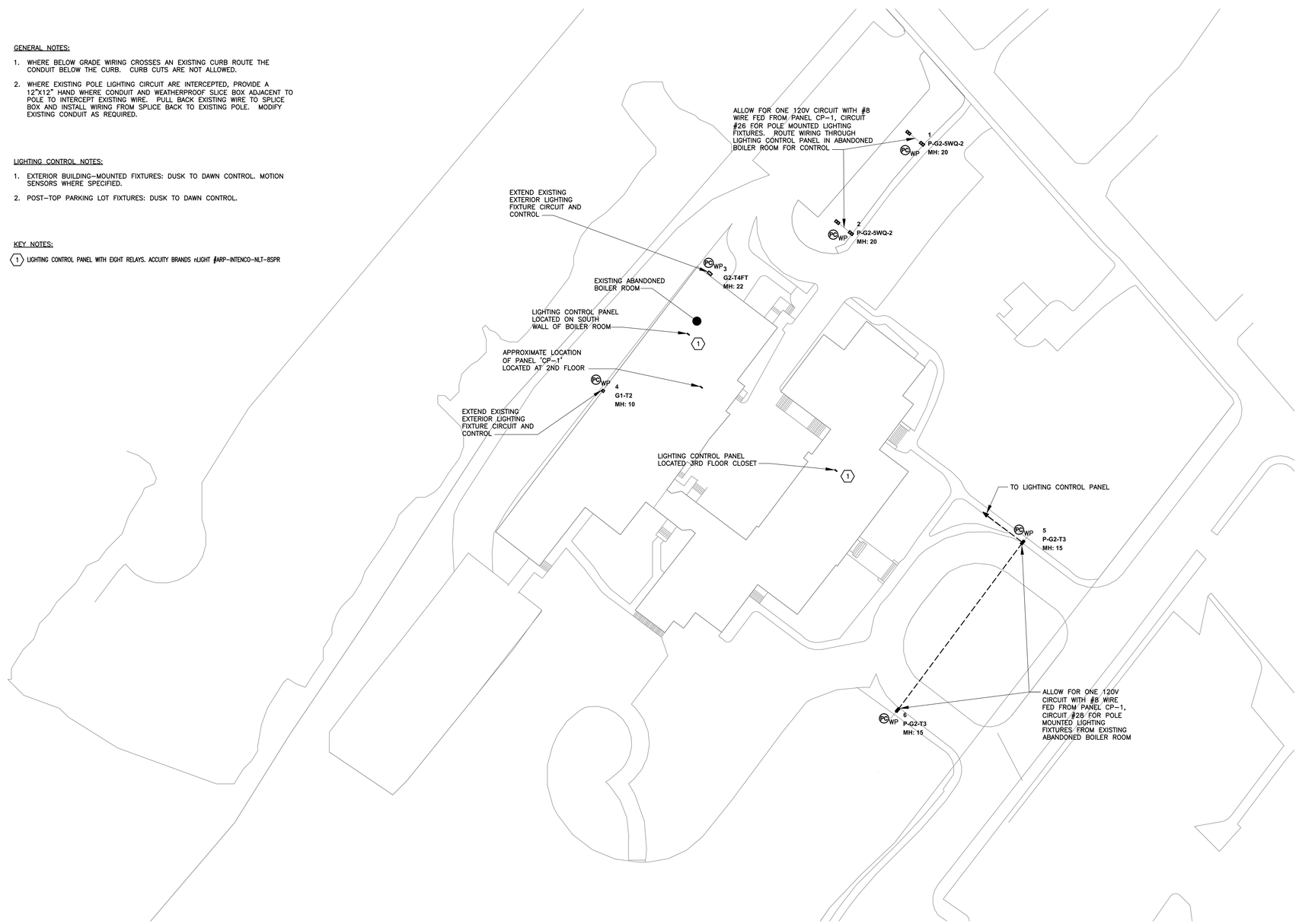
1. WHERE BELOW GRADE WIRING CROSSES AN EXISTING CURB ROUTE THE CONDUIT BELOW THE CURB. CURB CUTS ARE NOT ALLOWED.
2. WHERE EXISTING POLE LIGHTING CIRCUIT ARE INTERCEPTED, PROVIDE A 12"X12" HAND WHERE CONDUIT AND WEATHERPROOF SLICE BOX ADJACENT TO POLE TO INTERCEPT EXISTING WIRE. PULL BACK EXISTING WIRE TO SPLICE BOX AND INSTALL WIRING FROM SPLICE BACK TO EXISTING POLE. MODIFY EXISTING CONDUIT AS REQUIRED.

LIGHTING CONTROL NOTES:

1. EXTERIOR BUILDING–MOUNTED FIXTURES: DUSK TO DAWN CONTROL. MOTION SENSORS WHERE SPECIFIED.
2. POST–TOP PARKING LOT FIXTURES: DUSK TO DAWN CONTROL.

KEY NOTES:

(1) LIGHTING CONTROL PANEL WITH EIGHT RELAYS. ACCUITY BRANDS nLIGHT #ARP–INTENCO–NLT–8SPR



SITE LIGHTING PLAN
1/32" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

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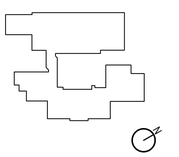
KEY PLAN



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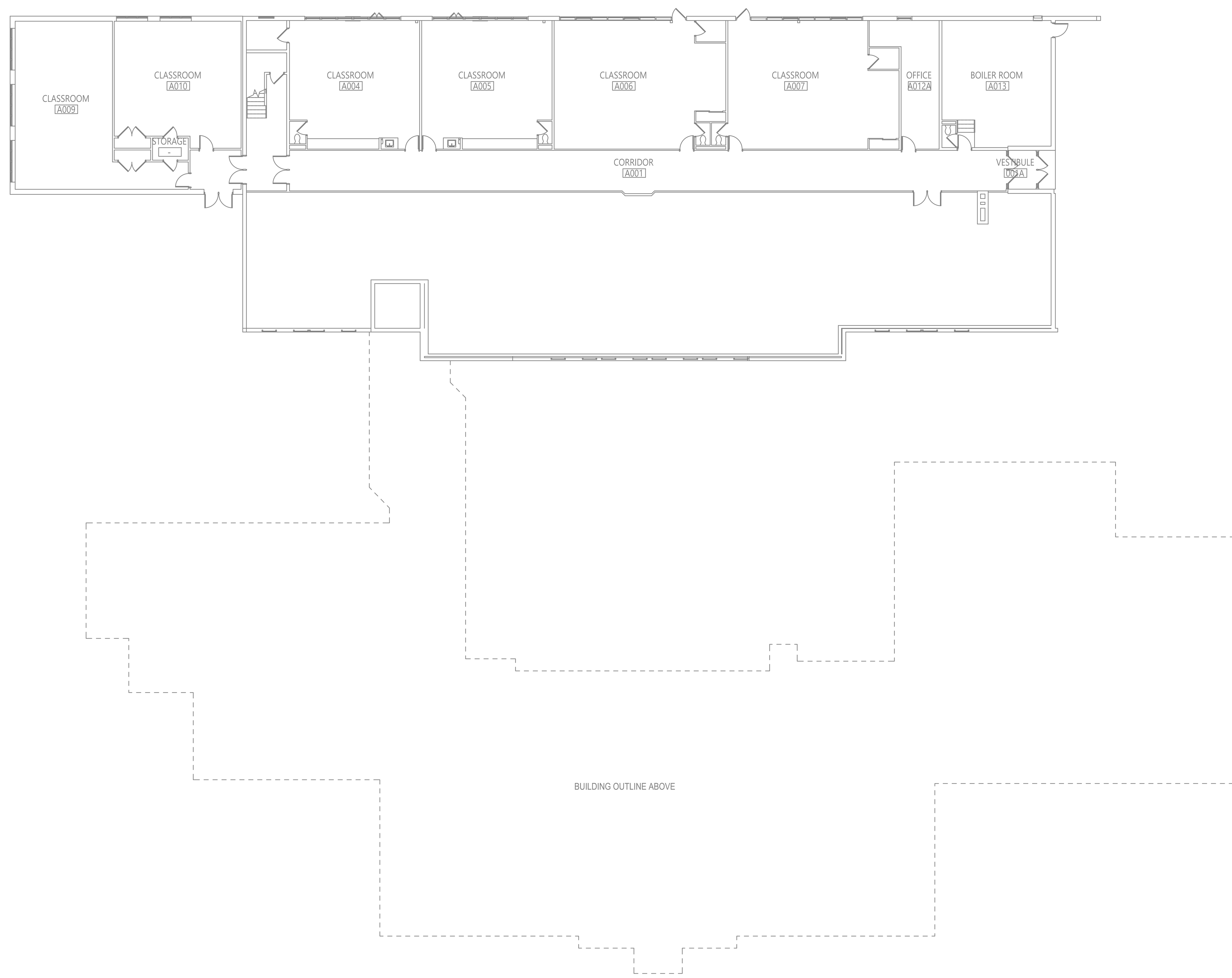
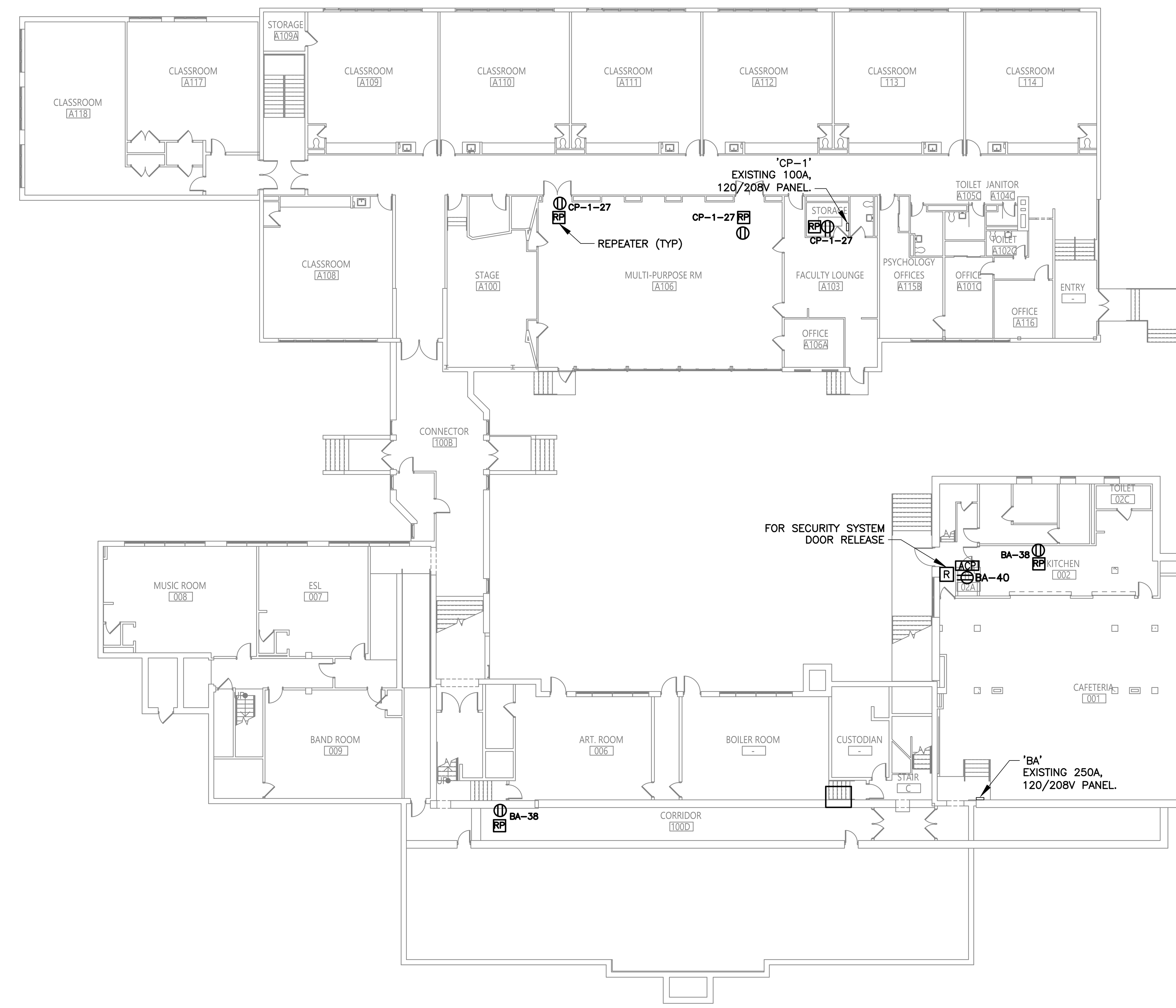
SITE LIGHTING PLAN

GR E201



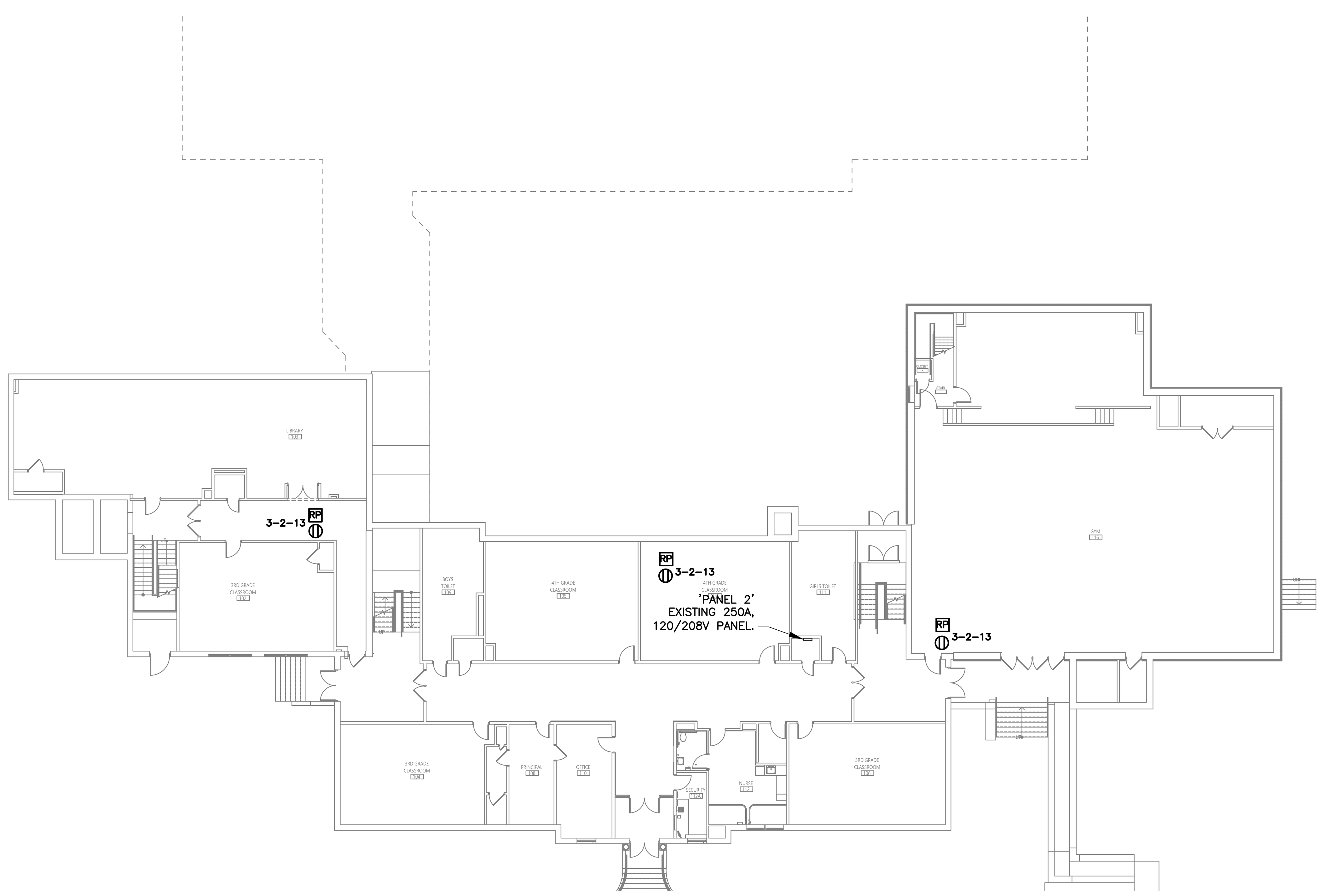
FIRST FLOOR SECURITY POWER PLAN

1/16" = 1'-0"



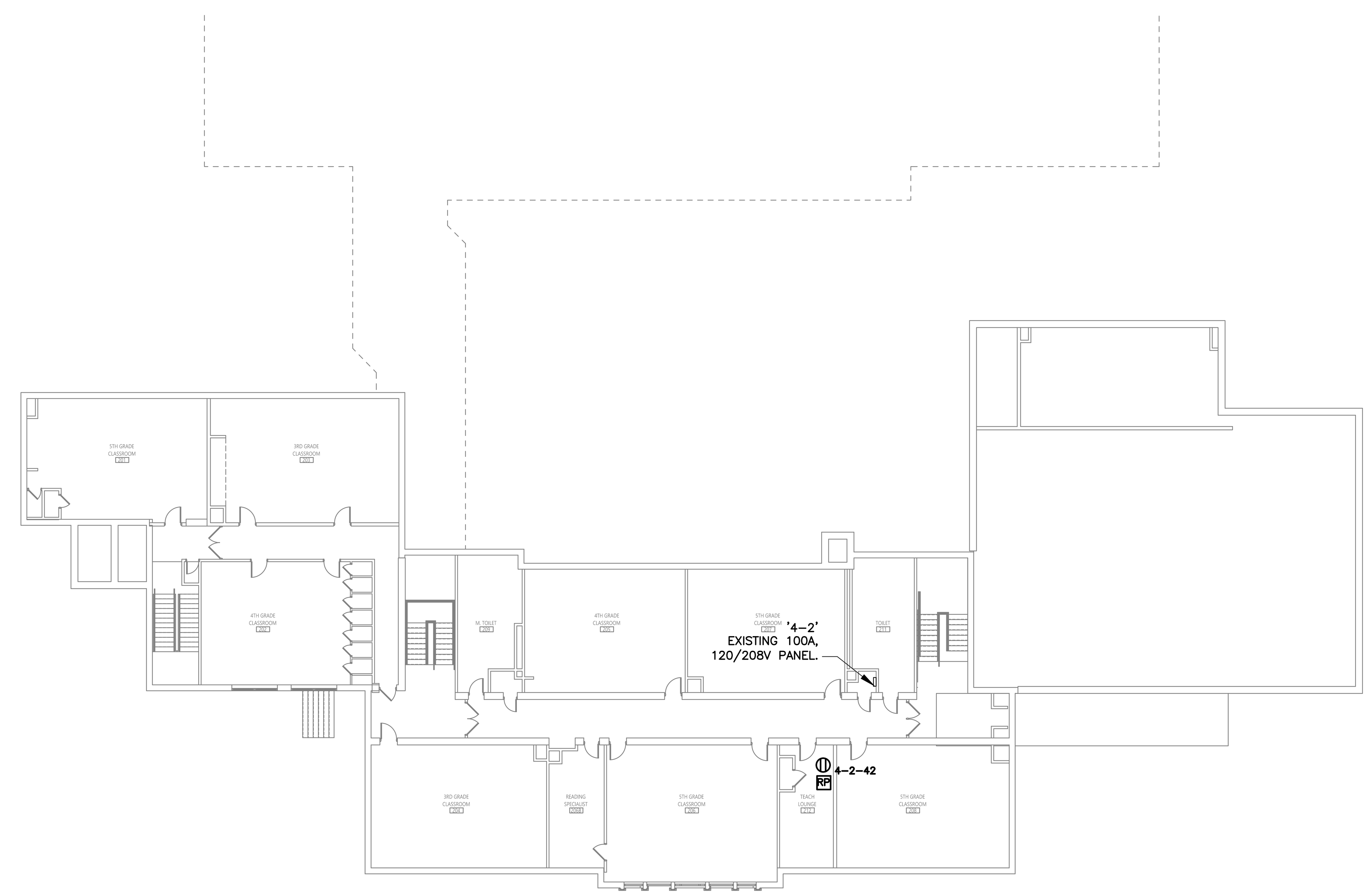
SECOND FLOOR SECURITY POWER PLAN

1/16" = 1'-0"



THIRD FLOOR SECURITY POWER PLAN

1/16" = 1'-0"



FOURTH FLOOR SECURITY POWER PLAN

1/16" = 1'-0"

ELECTRICAL POWER PLAN NOTES:

1. REFER TO SECURITY DRAWINGS FOR SCOPE PERTAINING TO SECURITY DEVICES, EQUIPMENT, ASSOCIATED WIRING AND RACEWAYS, AND NECESSARY POWER REQUIREMENTS. ALLOW FOR SURFACE MOUNTED RACEWAYS FOR ALL SECURITY AND POWER WIRING.
2. FURNISH AND INSTALL A 20A CEILING MOUNTED DUPLEX RECEPTACLE ADJACENT TO EACH SECURITY REPEATER WHERE LOCATED OUTSIDE OF I.T. CLOSET.
3. FURNISH AND INSTALL A 20A WALL MOUNTED DUPLEX RECEPTACLE FOR EACH SECURITY REPEATER LOCATED WITHIN THE I.T. CLOSET.
4. FURNISH AND INSTALL A 20A WALL MOUNTED DUPLEX RECEPTACLE FOR EACH ACCESS CONTROL PANEL WITHIN THE I.T. CLOSET.

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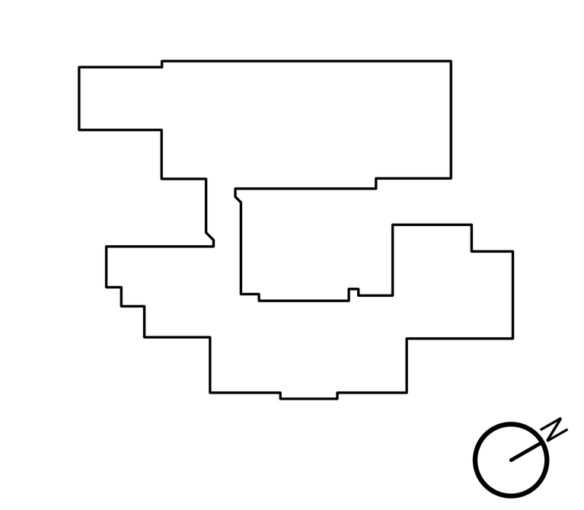

SED PROJECT NO.	66-03-01-03-0-006-015
MEMASI PROJECT NO.	102-2202

SECURITY
POWER PLANS

GR E301

ELECTRICAL PANEL SCHEDULES

PANEL DESIGNATION : PANEL #1

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	30
PHASE	3 Ø	SCC RATING (SYM)	22 K.A.I.C.	MAIN CIRCUIT BREAKER	N/A
WIRE	4 W + G			MAIN BUS	100 A
EXISTING PANEL	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS : EXISTING PANEL TO REMAIN

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	FCU-GR-1 (SECURITY OFFICE)	0			EF-GR-1 (NURSE)	20A	2
3	20A	FCU-GR-2 (NURSE)		0		SPACE	20A	4
5	20A	FCU-GR-3 (ENTRY)			0	SPACE	20A	6
7	20A	EXISTING	0			EXISTING	30A	8
9	20A	EXISTING		0		EXISTING	20A	10
11	20A	EXISTING			0	EXISTING	20A	12
13	20A	EXISTING	0			EXISTING	20A	14
15	20A	EXISTING		0		EXISTING	20A	16
17	20A	EXISTING			0	EXISTING	20A	18
19	20A	EXISTING	0			EXISTING	20A	20
21	20A	EXISTING		0		EXISTING	20A	22
23	20A	EXISTING			0	EXISTING	20A	24
25	20A	EXISTING	0			EXISTING	20A	26
27	20A	EXISTING		0		EXISTING	20A	28
29	20A	EXISTING			0	EXISTING	20A	30
31	20A	EXISTING	0			EXISTING	20A	32
33	20A	EXISTING		0		EXISTING	20A	34
35	20A	EXISTING			0	EXISTING	20A	36
37			0			SECURITY OFFICE	20A	38
39	40A	EXISTING		0		SECURITY OFFICE	20A	40
41					0	3RD FLOOR REPEATER	20A	42

PANEL DESIGNATION : BA

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	22 K.A.I.C.	MAIN CIRCUIT BREAKER	250 A
WIRE	4 W + G			MAIN BUS	225 A
EXISTING PANEL	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS : REPLACE INTERIORS AND COVER. MATCH CIRCUIT BREAKER RATINGS WITH EXISTING TO REMAIN CIRCUITS

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	EXISTING LOAD	0			EXISTING LOAD	20A	2
3	20A	EXISTING LOAD		0		EXISTING LOAD	20A	4
5	20A	EXISTING LOAD			0	EXISTING LOAD	20A	6
7	20A	EXISTING LOAD	0			EXISTING LOAD	20A	8
9	20A	EXISTING LOAD		0		EXISTING LOAD	20A	10
11	20A	EXISTING LOAD			0	EXISTING LOAD	20A	12
13	20A	EXISTING LOAD	0			EXISTING LOAD	20A	14
15	20A	EXISTING LOAD		0		EXISTING LOAD	20A	16
17	20A	EXISTING LOAD			0	EXISTING LOAD	20A	18
19	20A	EXISTING LOAD	0			EXISTING LOAD	20A	20
21	20A	EXISTING LOAD		0		EXISTING LOAD	20A	22
23	20A	EXISTING LOAD			0	EXISTING LOAD	20A	24
25	20A	EXISTING LOAD	0			EXISTING LOAD	20A	26
27	20A	EXISTING LOAD		0		EXISTING LOAD	20A	28
29	20A	EXISTING LOAD			0	EXISTING LOAD	20A	30
31	20A	EXISTING LOAD	0			EXISTING LOAD	20A	32
33	20A	EXISTING LOAD		0		EXISTING LOAD	20A	34
35					0	EXISTING LOAD	20A	36
37	20A	EXISTING LOAD	0			REPEATER	20A	38
39				0		SECURITY PANEL ACP	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

PANEL DESIGNATION : CP-1

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	22 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
EXISTING PANEL	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS : REPLACE INTERIORS AND COVER. MATCH CIRCUIT BREAKER RATINGS WITH EXISTING TO REMAIN CIRCUITS

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1			0			EXISTING LOAD	20A	2
3	60A	EXISTING LOAD		0		EXISTING LOAD	20A	4
5					0	EXISTING LOAD	20A	6
7	20A	EXISTING LOAD	0			EXISTING LOAD	20A	8
9	20A	EXISTING LOAD		0		EXISTING LOAD	20A	10
11	20A	EXISTING LOAD			0	EXISTING LOAD	20A	12
13	20A	EXISTING LOAD	0			EXISTING LOAD	20A	14
15	20A	EXISTING LOAD		0		EXISTING LOAD	20A	16
17	20A	EXISTING LOAD			0	EXISTING LOAD	20A	18
19	20A	EXISTING LOAD	0					20
21	20A	EXISTING LOAD		0		EXISTING LOAD	20A	22
23	20A	EXISTING LOAD			0			24
25	20A	EXISTING LOAD	0			SITE LIGHTING	20A	26
27	20A	REPEATER		0		**SPARE**	20A	28
29	20A	**SPARE**			0	**SPARE**	20A	30
31	20A	**SPARE**	0			**SPARE**	20A	32
33	20A	**SPARE**		0		**SPARE**	20A	34
35	20A	**SPARE**			0	**SPARE**	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

PANEL DESIGNATION : PANEL #2

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	30
PHASE	3 Ø	SCC RATING (SYM)	22 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	225 A
EXISTING PANEL	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS : EXISTING PANEL TO REMAIN

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1			0			EXISTING	20A	2
3	100A	MAIN		0		EXISTING	20A	4
5					0	EXISTING	20A	6
7	20A	EXISTING	0			EXISTING	20A	8
9	20A	EXISTING		0		EXISTING	20A	10
11	20A	EXISTING			0	EXISTING	20A	12
13	20A	**SPARE**	0			NURSE COUNTER RECEPTACLES	20A	14
15	20A	ENTRY RECEPTACLES		0		NURSE COUNTER RECEPTACLES	20A	16
17	20A	NURSE RECEPTACLES			0	NURSE REFRIGERATOR RECEPTACLE	20A	18

PANEL DESIGNATION : 4TH FL 4-2

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	22 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
EXISTING PANEL	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS : REPLACE INTERIORS AND COVER. MATCH CIRCUIT BREAKER RATINGS WITH EXISTING TO REMAIN CIRCUITS

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1			0			EXISTING LOAD	20A	2
3	60A	EXISTING LOAD		0		EXISTING LOAD	20A	4
5					0	EXISTING LOAD	20A	6
7	20A	EXISTING LOAD	0			EXISTING LOAD	20A	8
9	20A	EXISTING LOAD		0		EXISTING LOAD	20A	10
11	20A	EXISTING LOAD			0	EXISTING LOAD	20A	12
13	20A	EXISTING LOAD	0			EXISTING LOAD	20A	14
15	20A	EXISTING LOAD		0		EXISTING LOAD	20A	16
17	20A	EXISTING LOAD			0	EXISTING LOAD	20A	18
19	20A	EXISTING LOAD	0					20
21	20A	EXISTING LOAD		0		EXISTING LOAD	20A	22
23	20A	EXISTING LOAD			0			24
25	20A	EXISTING LOAD	0			EXISTING LOAD	20A	26
27	20A	EXISTING LOAD		0		EXISTING LOAD	20A	28
29	20A	EXISTING LOAD			0	EXISTING LOAD	20A	30
31	20A	EXISTING LOAD	0			EXISTING LOAD	20A	32
33	20A	EXISTING LOAD		0		EXISTING LOAD	20A	34
35	20A	EXISTING LOAD			0	EXISTING LOAD	20A	36
37	20A	EXISTING LOAD	0			EXISTING LOAD	20A	38
39	20A	EXISTING LOAD		0		EXISTING LOAD	20A	40
41	20A	EXISTING LOAD			0	4TH FL REPEATER	20A	42

12/29/2022 8:12 AM Bastone, Joseph \\US0575-PPFSS01\SHARED_PROJECTS\223030829\D_WORKING_FILES\00_MEP\02_CAD\PHASE_2_EUFSD_VESTIBULES\SHEETS\GR\223030829_GR_E601.DWG

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

GREENVALE ELEMENTARY SCHOOL

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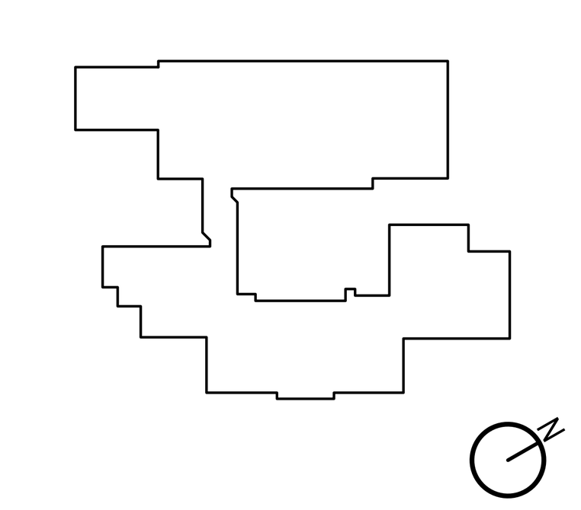
SEAL

ISSUE	DATE
BID SET	01/03/2023

KEY PLAN



SED PROJECT NO. 66-03-01-03-0-006-015

MEMASI PROJECT NO. 102-2202

ELECTRICAL PANEL SCHEDULES

GR E601

GENERAL NOTES

1. ALL REFERENCES HEREIN TO THE CONTRACTOR SHALL REFER TO THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
2. THE ENTIRE INSTALLATION SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE EXACT LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO MAKING NEW CONNECTIONS TO EXISTING LINES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. DO NOT SCALE FROM THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN A DISTANCE OF FIVE FEET FROM THE BUILDING PERIMETER.
5. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
6. THE CONTRACTOR SHALL REFER TO WRITTEN SPECIFICATION IN CONJUNCTION WITH THESE DRAWINGS FOR FULL PROJECT SCOPE.
7. ANY DISCREPANCIES OR INADEQUACIES WITHIN BID DOCUMENTS, BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND STRUCTURAL BID DOCUMENTS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
8. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, EXPOSED PIPING, PIPING CONNECTIONS, AND ACCESS PANELS/DOORS. THESE DRAWINGS SHALL INCLUDE ALL CHANGES AND DEVIATIONS FROM CONSTRUCTION DOCUMENTS.
9. THE CONTRACTOR SHALL SCHEDULE ALL WORK TO AVOID INTERFERENCE WITH FIRE PROOFING WORK.
10. THE CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING LOCATIONS AND INVERTS WITH ALL UTILITIES.
11. THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL FURNISH PLUMBING EQUIPMENT WIRED FOR THE VOLTAGES SHOWN IN CONTRACT DOCUMENTS AND COORDINATED WITH ELECTRICAL CONTRACTOR.
12. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
13. THE CONTRACTOR SHALL SUBMIT, PRIOR TO ANY FABRICATION OR INSTALLATION, ALL NECESSARY DRAWINGS, EQUIPMENT/MATERIAL PRODUCT DATA, DOCUMENTATION, AND CALCULATIONS REQUIRED TO COMPLETE THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.
14. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO ANY FABRICATION OR INSTALLATION. ALL FEES FOR PERMITS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL ABOVE GRADE PIPING SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE. NO PIPING SHALL REST ON CEILING TILES OR CEILING STRUCTURE.
16. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT AND IN THE MOST INCONSPICUOUS LOCATION POSSIBLE. VERTICAL DROPS SHOULD BE KEPT TO A MINIMUM AND SHOULD BE LOCATED WITHIN CHASES, WALLS, AND SOFFITS WITH OTHER MECHANICAL PIPING AND ELECTRICAL CONDUITS WHEN POSSIBLE. ALL SUCH LOCATION ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.
17. WATER METER SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND SHALL BE PROVIDED WITH REMOTE READING.
18. THE CONTRACTOR SHALL PROVIDE ALL CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS, AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
19. THE CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ASSOCIATED FLASHING REQUIREMENTS WITH OTHER TRADES.
20. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL HORIZONTAL STORM WATER PIPING.
21. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN SHUTOFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
22. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS/DOORS FOR ALL CLEANOUTS, VALVES, AND ANY OTHER EQUIPMENT LOCATED WITHIN WALLS, PARTITIONS, OR CEILINGS THAT REQUIRE ACCESS FOR MAINTENANCE AND/OR OPERATION.
23. THE CONTRACTOR SHALL INSTALL TRAP SEAL PRIMERS ON ALL FLOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE NECESSARY COLD WATER CONNECTION TO ALL TRAP SEAL PRIMERS.
24. THE CONTRACTOR SHALL PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY, WASTE, STORM, AND VENT STACKS. CLEANOUT DECK PLATES PLATES MUST ALSO BE PROVIDED ON ALL BURIED SANITARY, WASTE, AND STORM PIPING AT INTERVALS OUTLINED IN APPLICABLE CODE.
25. SUDS PRESSURE ZONE REQUIREMENTS SHALL BE MEET IN THE DESIGN OF THE SANITARY, WASTE, AND VENT SYSTEMS. NO CONNECTION SHALL BE MADE TO THE VERTICAL PORTION OF A SANITARY OR WASTE STACK WITHIN FORTY STACK DIAMETERS OF THE BASE FITTING. NO CONNECTION SHALL BE MADE TO THE HORIZONTAL OFFSET PORTION OF A SANITARY OR WASTE STACK WITHIN TEN STACK DIAMETERS OF THE BASE FITTINGS.
26. NO DRAINAGE BRANCH SHALL BE CONNECTED TO A SANITARY OR WASTE STACK WITHIN TWO FEET ABOVE OR BELOW A HORIZONTAL OFFSET EXCEPT WHERE NO OTHER DRAINAGE BRANCH IS CONNECTED TO THE STACK AT A HIGHER STORY.
27. THE CONTRACTOR SHALL PROVIDE REDUCING FITTING AT ALL CHANGES IN DIAMETER OF SANITARY, WASTE, AND STORM PIPING.
28. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO ALL EQUIPMENT AND FIXTURE INDICATED ON THE ARCHITECTURAL AND PLUMBING DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO HVAC AND FIRE PROTECTION EQUIPMENT.
29. UPON COMPLETION, EXISTING SYSTEM SHALL BE IN WORKING ORDER.

PLUMBING DRAWING LIST

Sheet Number	Sheet Title
GR P001	COVER SHEET
GR P103	THIRD FLOOR VESTIBULE PARTIAL PLANS
GR P201	DETAILS

DEMOLITION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THEIR PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.
6. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
7. THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
8. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
9. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE BUILDING OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
10. NO ABANDONED PIPING SHALL REMAIN.

OPENING / SLEEVE SCHEDULE

INSULATED DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING

PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
i" & s"	3"	4"
1"	4"	4i"
1r"	4"	5"
1i"	4"	5"
2" & 2i"	5"	6"
3"	6"	6i"
4"	8"	7i"
5"	8"	8i"
6"	10"	9i"

UNINSULATED SANITARY, WASTE, VENT, STORM, AND GAS PIPING

PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
1i"	3"	3"
2"	4"	3i"
2i"	4"	4"
3"	5"	4i"
4"	6"	5i"
5"	8"	6i"
6"	8"	7i"
8"	10"	9i"
10"	12"	11i"
12"	15"	13i"
15"	18"	16i"

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 1998 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NPFA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

DRAIN SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NUMBER	DRAIN BODY SPECIFICATION									STRAINER SPECIFICATION																			APPLICABLE AREAS
			BRONZE	CAST IRON	GALVANIZED	STAINLESS STEEL	CLAMPING DEVICE	SECONDARY CLAMP	SUMP RECEIVER	ACID RESISTANT COATING	TRAP PRIMER CONNECTION	BRONZE	CAST IRON	GALVANIZED	NICKEL BRONZE	STAINLESS STEEL	CHROME PLATED	POLISHED FINISH	SATIN FINISH	SECONDARY STRAINER	SEDIMENT BUCKET	LESS GRATE	HALF GRATE	FLUSH GRATE	TRACTOR GRATE	FLAT TOP	FUNNEL TOP	DOME	EXTENSION	ADJUSTABLE	
FD	ZURN	Z525		●							●		●																	●	

NOTES:
1. ALL FLOOR DRAINS IN FINISHED AREAS AND ALL ROOF DRAINS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.
2. ALL FLOOR DRAINS IN MECHANICAL EQUIPMENT ROOMS, BIOLER ROOMS, FAN ROOMS ETC, SHAL BE LOCATED IN COORDINATION WITH THE MECHANICAL CONTRACTOR.
3. THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF THE DRAINS WITH THE APPROVED ROOFING AND/OR WATER PROOFING SYSTEMS PRIOR TO SUBMITTING SHOP DRAWINGS.
4. THE TOP OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.
5. PROVIDE TRAP PRIMER MOD# M-500 AS MANUFACTURED BY MIFAB ON ALL FLOOR DRAINS UNLESS OTHERWISE NOTED. PROVIDE DISTRIBUTION UNIT MI-DU WHEN APPLICABLE. PROVIDE ½"CW CONNECTION TO ALL TRAP PRIMERS.

SYMBOL LIST

S	SANITARY/SOIL PIPING
W	WASTE PIPING
IW	INDIRECT WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	ARROW REPRESENTS DIRECTION OF FLOW
	PIPING TO BE DEMOLISHED
	PIPE BREAK
	CAPPED OUTLET
	CLEANOUT / PLUGGED OUTLET
	CLEANOUT DECK PLATE
	P-TRAP
	PIPE DROP / DOWN
	PIPE RISE / UP
	PIPE BOTTOM CONNECTION
	PIPE TOP CONNECTION
	PIPE SIDE CONNECTION
	VACUUM BREAKER
	SHOCK ARRESTOR
	DRAIN
	TEMPERATURE GAUGE
	CHECK VALVE
	BALL VALVE
	MIXING VALVE
	SOLENOID VALVE
	POINT OF DISCONNECTION FROM EXISTING PIPING
	POINT OF CONNECTION TO EXISTING PIPING

ABBREVIATIONS LIST

AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CM	COFFEE MAKER
CLG	CEILING
CONN	CONNECT / CONNECTION
CONT	CONTINUE / CONTINUATION
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DW	DISHWASHER
DWG	DRAWING
EX	EXISTING
FD	FLOOR DRAIN
HC	HANDICAPPED ACCESSIBLE FIXTURE
HW	DOMESTIC HOT WATER
IW	INDIRECT WASTE
NTS	NOT TO SCALE
PD	PUMP DISCHARGE
SAN	SANITARY/SOIL
SK	SINK
TYP	TYPICAL
UP	UP (PENETRATES FLOOR SLAB)
V	VENT
VB	VACUUM BREAKER
W	WASTE

FIXTURE SCHEDULE

DESIGNATION	FIXTURE SPECIFICATION: COMPONENT	MANUFACTURER	MODEL NUMBER	SERVICE CONNECTIONS: S	W	IW	V	CW	HW	ADDITIONAL COMMENTS
WC	WATER CLOSET	AMERICAN STANDARD	AFWALL 2257101	4"			2"	1¼"		– ADULT SIZE, ADA COMPLIANT, WALL HUNG ELONGATED BOWL, HIGH EFFICIENCY FLUSH VALVE TOILET. – PROVIDE 1.28 GPF DC FLUSH VALVE. – PROVIDE OPEN FRONT SOFT CLOSE SEAT LESS COVER.
	FLUSH VALVE	SLOAN	8111 MC–1.28–DFP–OR							
	SEAT	AMERICAN STANDARD	5901.100SS							
	CARRIER	JAY R. SMITH	400 SERIES							
LAV	LAVATORY	AMERICAN STANDARD	LUCERNE 0356.421		1½"		1½"	½"	½"	– ADA COMPLIANT, WALL HUNG. RECTANGULAR LAVATORY & BASIN. – PROVIDE CHROME PLATED BRASS LAVATORY GRID DRAIN ASSEMBLY FOR ALL TOILET ROOM LOCATION. – 0.50 GPM NON AERATED FLOW RESTRICTOR. – MIXING VALVE SET AT 100°F. – SUPPLY STOP VALVES TO BE LOOSE KEY.
	FAUCET	SLOAN	EAF–150–BAT–CP–0.5GPM–AER–IR–IQ–FCT							
	DRAIN	MCGUIRE MANUFACTURING	PW155WC							
	P–TRAP	MCGUIRE MANUFACTURING	PW2125							
	SUPPLY	MCGUIRE MANUFACTURING	H170–LK							
	MIXING VALVE	LEONARD	170–LF							
SK	SINK	ELKAY	ELUHAD1814		2"		1½"	½"	½"	– PROVIDE AQUA–PURE AP EASY CS–FF WATER FILTER. – MIXING VALVE SET AT 100°F. – SUPPLY STOP VALVES TO BE LOOSE KEY.
	FAUCET	ZURN	Z82300–XL							
	DRAIN	MCGUIRE MANUFACTURING	PW155WC							
	P–TRAP	MCGUIRE MANUFACTURING	PW2125							
	SUPPLY	MCGUIRE MANUFACTURING	H170–LK							
	MIXING VALVE	LEONARD	170–LF							
	GLASS FILLER	T&S BRASS	B–1210–01							
EW	EMERGENCY EYE WASH	GUARDIAN	GVR5022–HG		2"		1½"	½"	½"	– DECK MOUNTED EMERGENCY EYE COMBO EYE WASH DRENCH HOSE UNIT WITH TWO VANDAL RESISTANT SPRAY HEADS WITH PROTECTIVE FLIP TOP DUST COVER. – WATER SUPPLY FLOW RATE : 1.3 GPM @ 30 PSI MIN. – PROVIDE TEMPERATURE MIXING VALVE WITH CW BYPASS MODEL: TMV–G3600 – INLINE BACKFLOW PREVENTER
	PTRAP	MCGUIRE MANUFACTURING	PW8902							

NOTES:
1. REFER TO ARCHITECTUAL DRAWINGS FOR STANDARD AND ADA FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.
2. INSTALL PRE–FORMED INSULATION COVER FOR ALL EXPOSED SUPPLY AND DRAINAGE PIPING SERVING ADA COMPLIANT LAVATORIES AND SINKS MANUFACTURED BY TRUEBRO, PLUMBEREX, HANDYSHIELD.
3. PLUMBING FIXTURE SHALL HAVE CHROME PLATED BRASS SUPPLIES, STOPS, ESCUTCHEON COVERS, P–TRAP, GRID DRAIN, POP–UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAINS CONNECTION, SHOWER/TUB DRAIN & TAILPIECE ASSEBLIES SHALL BE CHROME PLATED BRASS, (IN LOCATIONS WHERE PIPING IS TO BE COVERED W/ INSULATION, BRASS FINISHES ONLY SHOULD ONLY BE SUBSTITUTED.)
4. GRID STRAINER/BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES
5. LAVATORY FAUCETS SHALL 0.5 GPM AERATORS.
6. SERVICE SINK FAUCETS SHALL HAVE VACUUM BREAKER & CHECK VALVES ON HW&CW SUPPLIES EITHER INTEGRAL TO FAUCET OR PROVIDE ON HW&CW PIPES FEEDING THE FAUCET.
7. WATER CLOSET/TOILET SEATS SHALL BE OF SMOOTH NON ABSORBENT MATERIAL: ALL SEATS TO BE HINGED OPEN FRONT TYPE W/ STAINLESS STEEL HINGE & HARDWARE. (COORDINATE SEAT COLOR WITH ARCHITECT)
8. PROVIDE FIXTURES WITH COMPATIBLE CARRIER AND/OR FACTORY FURNISHED WALL HANGER/SUPPORT BRACKET ASSEMBLY UNLESS OTHERWISE INDICATION.
9. PLUMBING FIXTURES (VITREOUS CHINA & SOLID SURFACE) SHALL BE WHITE IN COLOR UNLESS OTHERWISE INDICATED.

PIPE, FITTING, AND JOINT MATERIAL SCHEDULE

PIPING SYSTEM	PIPING LOCATION	PIPING SIZE	PIPING SPECIFICATION	FITTING SPECIFICATION	JOINT SPECIFICATION
SANITARY/WASTE/ VENT	ABOVE GROUND	ALL	SERVICE WEIGHT HUBLESS CAST IRON	SERVICE WEIGHT HUBLESS CAST IRON	NEOPRENE RUBBER SEALING SLEEVE AND HEAVY DUTY STAINLESS STEEL CORRUGATED SHIELDS WITH A MINIMUM OF FOUR HEAVY DUTY BANDS
INDIRECT WASTE	ABOVE GROUND	ALL	TYPE DWV COPPER TUBING	WROUGHT COPPER WITH SOLDER ENDS	95.5 TIN / 4.0 COPPER / 0.5 SILVER SOLDER
COLD WATER/HOT WATER/ HOT WATER CIRCULATION	DISTRIBUTION	ALL	TYPE L HARD DRAWN COPPER TUBING	WROUGHT COPPER WITH SOLDER ENDS	95.5 TIN / 4.0 COPPER / 0.5 SILVER SOLDER

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

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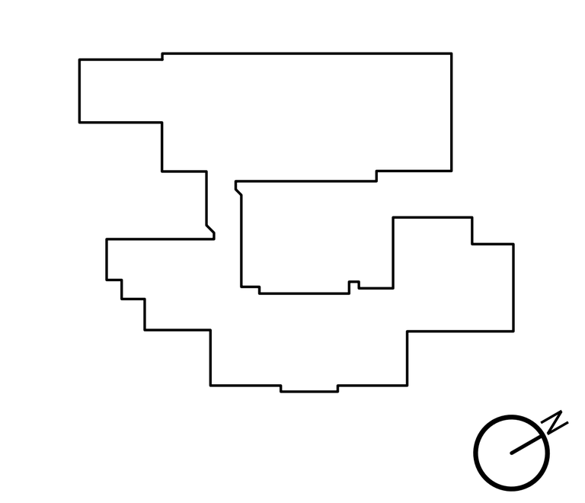


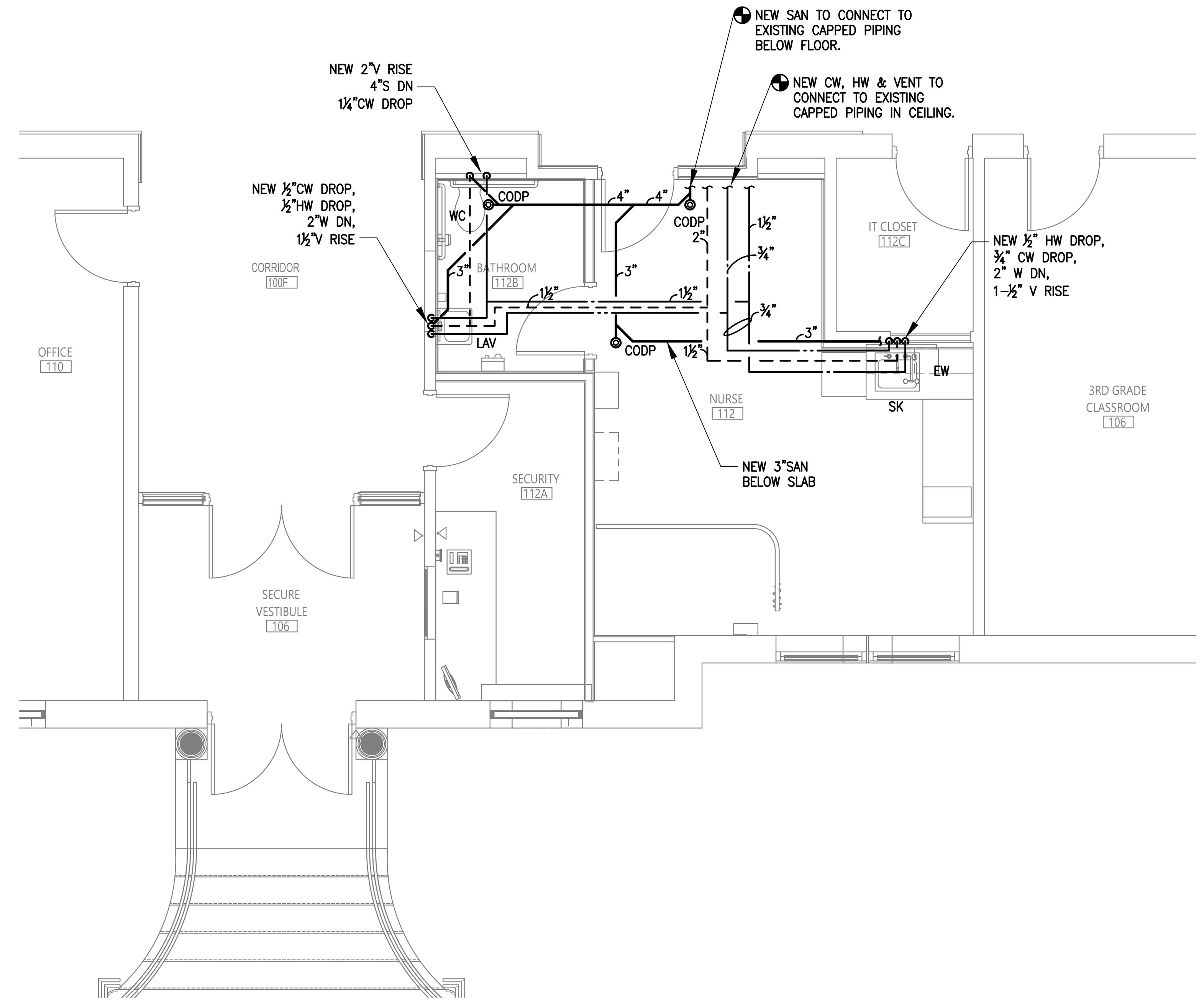
SED PROJECT NO. 66-03-01-03-0-006-015

MEMASI PROJECT NO. 102-2202

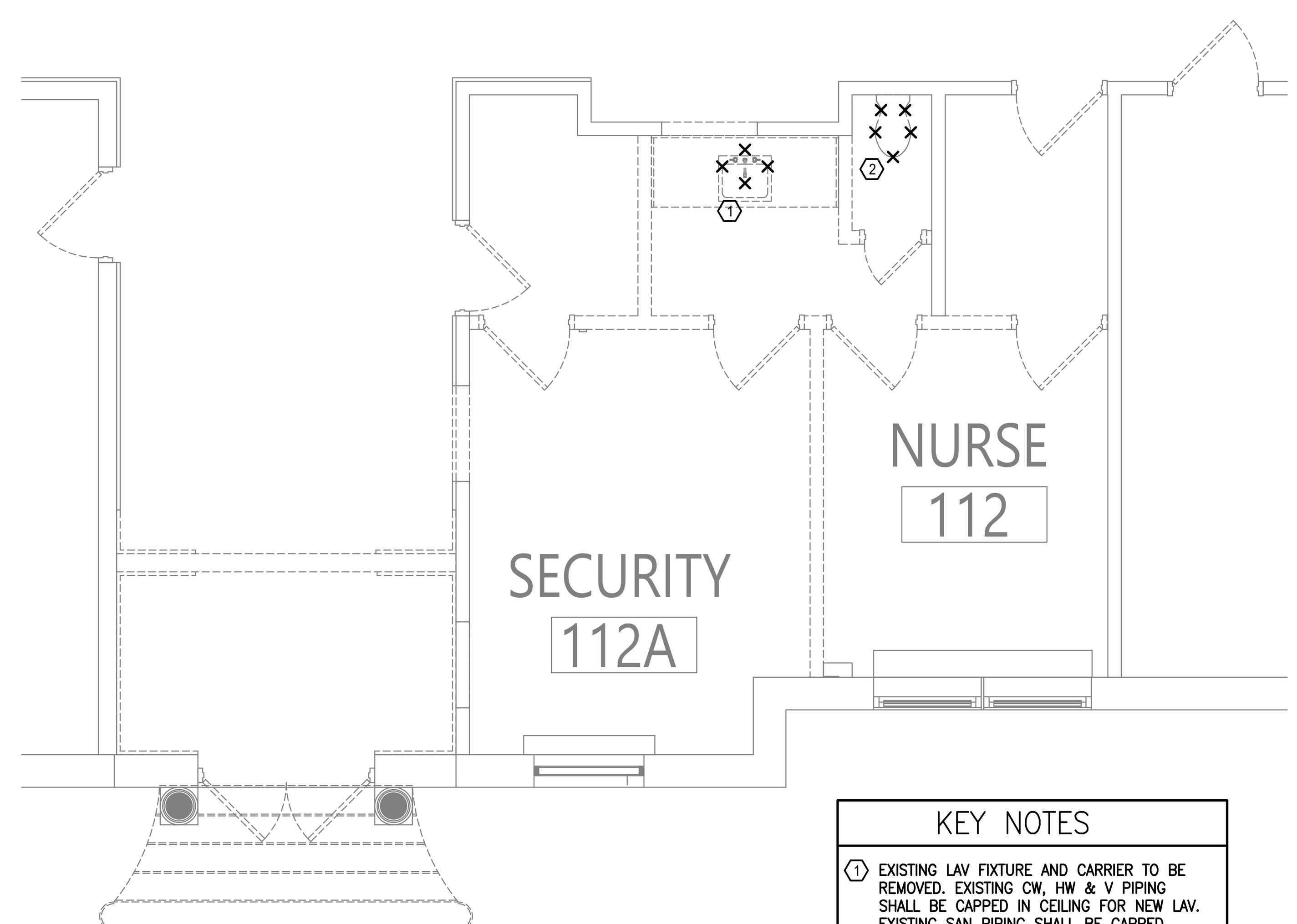
COVER SHEET

GR P001

12/29/2022 8:58 AM Merlino, Joseph



2 THIRD FLOOR VESTIBULE PARTIAL PLAN
1/4" = 1'-0"



KEY NOTES

1. EXISTING LAV FIXTURE AND CARRIER TO BE REMOVED. EXISTING CW, HW & V PIPING SHALL BE CAPPED IN CEILING FOR NEW LAV. EXISTING SAN PIPING SHALL BE CAPPED BELOW FLOOR FOR CONNECTION TO NEW LAV.
2. EXISTING WC FIXTURE AND CARRIER TO BE REMOVED. EXISTING CW & V PIPING SHALL BE CAPPED IN CEILING FOR NEW WC. EXISTING SAN PIPING SHALL BE CAPPED BELOW FLOOR FOR CONNECTION TO NEW WC

1 THIRD FLOOR VESTIBULE DEMOLITION PARTIAL PLAN
1/4" = 1'-0"

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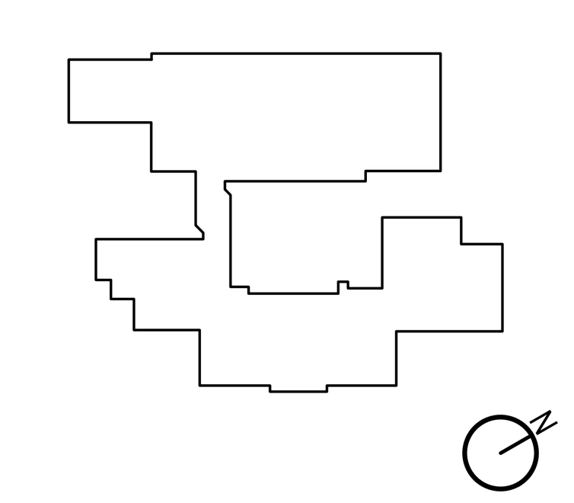

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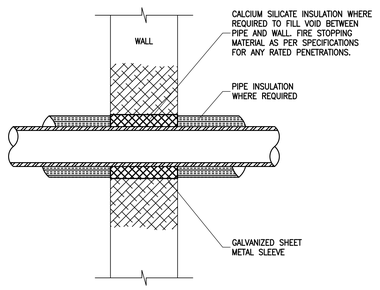
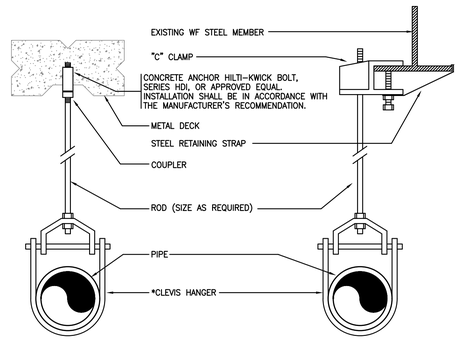
THIRD FLOOR
VESTIBULE
PARTIAL PLANS

GR P103



FIRE/SMOKE STOPPING WALL PENETRATION DETAIL

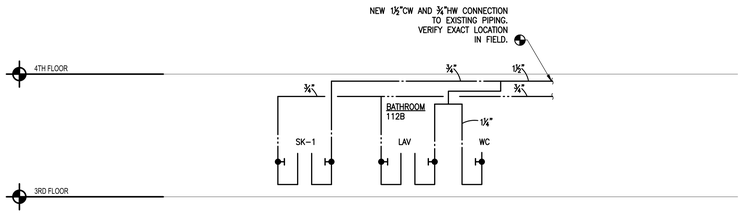
SCALE: NTS



CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1".
GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

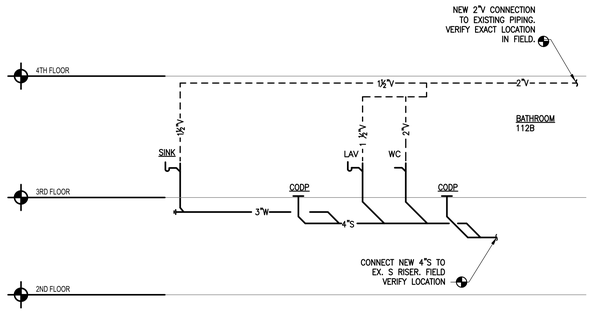
TYPICAL HANGER DETAIL

SCALE: NTS



WATER RISER DIAGRAM

SCALE: NTS



SANITARY RISER DIAGRAM

SCALE: NTS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

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SEAL

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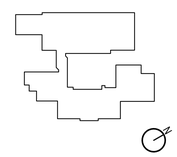
KEY PLAN



SED PROJECT NO. 66-03-01-03-0-006-015

MEMASI PROJECT NO. 102-2202

DETAILS

GR P201

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SECURITY LEGEND AND ABBREVIATIONS

ABBREVIATIONS

℄	CENTER LINE
ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AF/AS	AMPERE RATING OF FUSE/SWITCH
AT/AF	AMPERE RATING OF CIRCUIT, BREAKER TRIP/FRAME
A/V	AUDIO/VISUAL
BMS	BUILDING MANAGEMENT SYSTEM
CKT	CIRCUIT
CR	CARD READER
DC	DOOR CONTACT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EC	ELECTRICAL CONTRACTOR
ECC	ENGINEER'S CONTROL CENTER
EL	ELECTRIC LOCK
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ES	ELECTRIC STRIKE
FCC	FIRE CONTROL CENTER
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
IG	ISOLATED GROUND
MCP	MOTOR CIRCUIT PROTECTOR
MIC	MINERAL INSULATED CABLE
MS	MAIN SWITCHBOARD
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OPP	OPPOSITE
PVC	POLYVINYL CHLORIDE CONDUIT
RAC	RIGID ALUMINUM CONDUIT
RSC	RIGID STEEL CONDUIT
RTE	REQUEST-TO-EXIT DEVICE
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOM
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHERPROOF
WT	WATERTIGHT
XP	EXPLOSION PROOF

ELECTRONIC SAFETY & SECURITY DEVICE LEGEND

CR	CARD READER
CR L	CARD READER LOCK
DC	DOOR CONTACT
DR	DOOR RELEASE BUTTON
KP	INTRUSION SYSTEM KEYPAD
IC	INTERCOM STATION
V IC	VIDEO INTERCOM STATION
M IC	INTERCOM MASTER STATION
H	SPEAKER HORN
H	DUAL SPEAKER HORNS
MS	INFRARED MOTION SENSOR
EL	ELECTRIC LOCK
RE	REQUEST-TO-EXIT DEVICE
PAG	PAGING SYSTEM
L	LOCKDOWN INDICATOR LIGHT/STROBE
S	CEILING SPEAKER
C	CLOCK/SPEAKER
SP	WALL SPEAKER
SP EXT	EXTERIOR WALL SPEAKER
PB	PANIC BUTTON
LD	LOCKDOWN BUTTON
CB	CALL BUTTON
GB	AUDIBLE GLASS BREAK DETECTOR
WKSTN	SECURITY SYSTEM WORKSTATION
	SECURITY CAMERA
4K	4K SECURITY CAMERA
WA	WIDE-ANGLE SECURITY CAMERA
180	180° SECURITY CAMERA
EXT	EXTERIOR SECURITY CAMERA
GW	SHELTER SYSTEM GATEWAY (BY OTHERS) (1) CATEGORY 6 CABLE (BY CONTRACTOR)
RP	SHELTER SYSTEM REPEATER (BY OTHERS)
ACS	ACCESS CONTROL SYSTEM PANEL
IDS	INTRUSION DETECTION SYSTEM PANEL
XX -YYY	SECURITY CAMERA NUMBER

RACEWAY LEGEND

– – – – – – –	CONDUIT CONCEALED ABOVE CEILING OR WITHIN WALL
----------	CONDUIT BELOW GRADE OR EMBEDDED WITHIN SLAB
○———	CONDUIT UP
●———	CONDUIT DOWN
⊢———	CONDUIT STUBBED OUT WITH BUSHING NOTE: PROVIDE PULLSTRING IN EACH EMPTY RACEWAY
E———	CONDUIT STUBBED OUT AND CAPPED NOTE: PROVIDE PULLSTRING IN EACH EMPTY RACEWAY
—— CT ——	CABLE TRAY
—— S ——	SECURITY SYSTEM RACEWAY NOTE: PROVIDE PULLSTRING IN EACH EMPTY RACEWAY

EQUIPMENT DESIGNATIONS

(E)	EXISTING DEVICE TO REMAIN
(X)	EXISTING DEVICE TO BE REMOVED
(XL)	EXISTING DEVICE TO BE REMOVED AND RELOCATED
(NL)	NEW LOCATION OF EXISTING RELOCATED DEVICE
(XR)	EXISTING DEVICE TO BE REPLACED
(N)	NEW DEVICE

DEMOLITION NOTES

1. SECURITY DEMOLITION WORK SHALL BE DONE BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED. COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES REMAINING IN THE BUILDING.
2. WHERE EXISTING OUTLETS ARE NOT TO BE REUSED, THEY SHALL BE REMOVED AND THE CABLING PULLED BACK TO ITS SOURCE AS REQUIRED BY JOB CONDITIONS. PROVIDE BLANK COVER PLATES FOR ALL REMOVED OUTLETS.
3. REMOVE EXPOSED OR ACCESSIBLE CABLING TO EQUIPMENT OR OUTLETS TO BE REMOVED OR RELOCATED, UNLESS OTHERWISE INDICATED.
4. CABLING INDICATED TO BE REMOVED SHALL BE REMOVED BACK TO ITS SOURCE. CONDUIT OVER UNDISTURBED CEILINGS SHALL REMAIN AND BE LABELED ABANDONED ON EACH END.
5. BE RESPONSIBLE FOR VERIFYING THE INTEGRITY AND CONDITION OF THE EXISTING CABLING WHICH IS TO BE REUSED. CABLING FOUND TO BE NON-FUNCTIONAL SHALL BE REPLACED.
6. COORDINATE WORK CONCERNING EXISTING EQUIPMENT AND SERVICES IN THE BUILDING. COORDINATE REQUIRED INTERRUPTIONS AND PERFORM AT TIME CONVENIENT TO OWNER. INCLUDE COSTS FOR REQUIRED PREMIUM TIME.
7. WORK MAY BE REQUIRED OUTSIDE OF THE PROJECT AREA OF RENOVATION. CONTRACTOR SHALL NOT ASSUME THAT AREA OF RENOVATION IS CONSIDERED THE SCOPE OF WORK AREA. ALL SECURITY SYSTEMS SHALL STAY LIVE AT ALL TIMES. COORDINATE THE REMOVAL, TEMPORARY INSTALLATION OF DEVICES AND CABLING ALONG THE PERMANENT INSTALLATION OF CABLING DEVICES WITH THE GENERAL CONTRACTOR.
8. CONTRACTOR SHALL VISIT THE SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT WORK OF THIS SECTION. RENOVATION WORK REQUIRES CAREFUL SITE EXAMINATION BEFORE BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS.
9. PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE THE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING ITEMS. REPORT TO ENGINEER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK WILL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
10. TONE, TAG AND IDENTIFY ALL WIRING BEFORE DEMOLITION.

DOOR WIRING NOTES

1. NO CABLES ARE TO BE INSTALLED EXPOSED. ALL CABLES ARE TO BE CONCEALED IN CONDUIT. ALL CONDUIT ARE TO BE FINISHED AND TERMINATED IN JUNCTION BOXES AND/OR DEVICE BOXES, U.O.N.
2. ALL JUNCTION BOXES ARE TO BE PLACED ON SECURE SIDE OF DOORS.
3. SECURITY CONTRACTOR TO PROVIDE ALL CABLING AND COORDINATION WITH ELECTRICAL CONTRACTOR FOR PROPER CONDUIT INSTALLATION.
4. DOOR WIRING DETAILS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF SECURITY DEVICES MAY DIFFER.
5. COORDINATE ALL SECURITY DEVICES WITH HARDWARE.

LEGEND NOTE

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

GENERAL NOTE

1. ALL WORK ON THE TY DRAWINGS (SECURITY) IS BY THE PRIME ELECTRICAL CONTRACTOR. ANY REFERENCES TO "SECURITY VENDOR" ARE FOR THE ELECTRICAL CONTRACTOR'S SECURITY SUBCONTRACTOR.

SECURITY NOTES

1. THE DRAWINGS AND SPECIFICATIONS INDICATE THE INTENT OF THE DESIGN AND SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY. EXACT LOCATIONS FOR SECURITY DEVICES AND EQUIPMENT SHALL BE DETERMINED AT THE SITE BY THE SECURITY VENDOR. AS WORK PROGRESSES, DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
2. REFER TO SECURITY SPECIFICATIONS 28 01 00.
3. USE ONLY PRODUCTS LISTED FOR THEIR INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), EXCEPT THOSE TYPES OF PRODUCTS FOR WHICH NO RELEVANT STANDARDS EXIST.
4. PROVIDE FIRE STOPPING FOR ALL SLEEVE, CONDUIT AND CABLE TRAY PENETRATIONS THROUGH RATED PARTITIONS OR FLOORS IN ACCORDANCE WITH THE CODE AND SPECIFICATIONS.
5. WALL MOUNTED DEVICES SHALL BE WIRED VIA 1" RIGID METAL CONDUIT WITHIN WALL TO THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE SPECIFIED.
6. ALL CONDUITS, BACK BOXES AND PLASTER RINGS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. SECURITY CONTRACTOR SHALL COORDINATE AND VERIFY THE DEVICE LOCATIONS BY REFERRING TO THE ARCHITECTURAL DRAWINGS AND DETAILS.
7. ELECTRICAL AND MECHANICAL DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE PURPOSES ONLY UNLESS OTHERWISE SPECIFIED. SEE MEP DRAWINGS FOR DETAILS AND LOCATION OF ALL SUCH EQUIPMENT.
8. GROUND ALL EQUIPMENT RACKS, FRAMES, CABLE TRAYS, CABLE LADDERS AND OTHER PERMANENT SUPPORTS WITH #6 AWG (MIN), STRANDED, GREEN, INSULATED, COPPER WIRE AND MECHANICAL COMPRESSION LUGS.
9. LABEL ALL CLOSETS, RACKS, CABINETS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH ANSI/TIA/EIA-606-A.
10. SECURITY DEVICES SHALL BE U.L. LISTED. CABLES FOR DEVICES SHALL BE WIRED TO THE SAME CLOSET THAT SERVES THE REST OF THE FLOOR.
11. MOUNTING HEIGHTS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.
12. DEVICES THAT ARE INDICATED AS EXISTING AT DOORS SHALL REMAIN. CABLING TO BE REUSED AT THE DEVICES. ALL CABLING TO BE TONED, TAGGED, IDENTIFIED AND LABELED AT BOTH ENDS. EXISTING CABLING SHALL BE WIRED INTO NEW ACS OR IDS PANELS.
13. ALL SHELTER LOCK COMPONENTS WILL BE PURCHASED BY GENERAL CONTRACTOR. THE GENERAL CONTRACTOR WILL INSTALL ALL LOCKSETS. THE GENERAL CONTRACTOR WILL TURN THE REPEATERS OVER TO THE ELECTRICAL CONTRACTOR WHO WILL INSTALL THE WIRE AND THE REPEATERS.
14. ALL SECURITY (ACCESS CONTROL, VIDEO SURVEILLANCE AND INTRUSION DETECTION) AND SHELTER SYSTEM WIRING WILL BE ROUGHED ABOVE ACOUSTIC CEILING GRID. IN AREAS WHERE THERE IS EXISTING ASBESTOS CEILING PLASTER, THE CONTRACTOR WILL MOUNT NEW SECURITY AND SHELTER SYSTEM WIRING IN NEW WIREMOLD JUST BELOW THE PLASTER CEILING. DEVICES AND CAMERAS IN THESE ASBESTOS LOCATIONS WILL BE WALL MOUNTED WITH 10 LINEAR FEET OF SLACK COILED FOR RELOCATION ABOVE THE CEILING IN A FUTURE PHASE.

DRAWING LIST

GR TY001	LEGEND AND ABBREVIATIONS
GR TY101	FIRST AND SECOND FLOOR PLANS
GR TY102	THIRD AND FOURTH FLOOR PLANS
GR TY201	ENLARGED PLANS
GR TY301	RISER DIAGRAMS
GR TY401	DETAILS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

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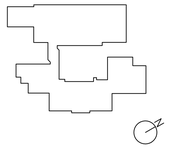
SEAL

BID SET	01/03/2023
ISSUE	DATE

KEY PLAN



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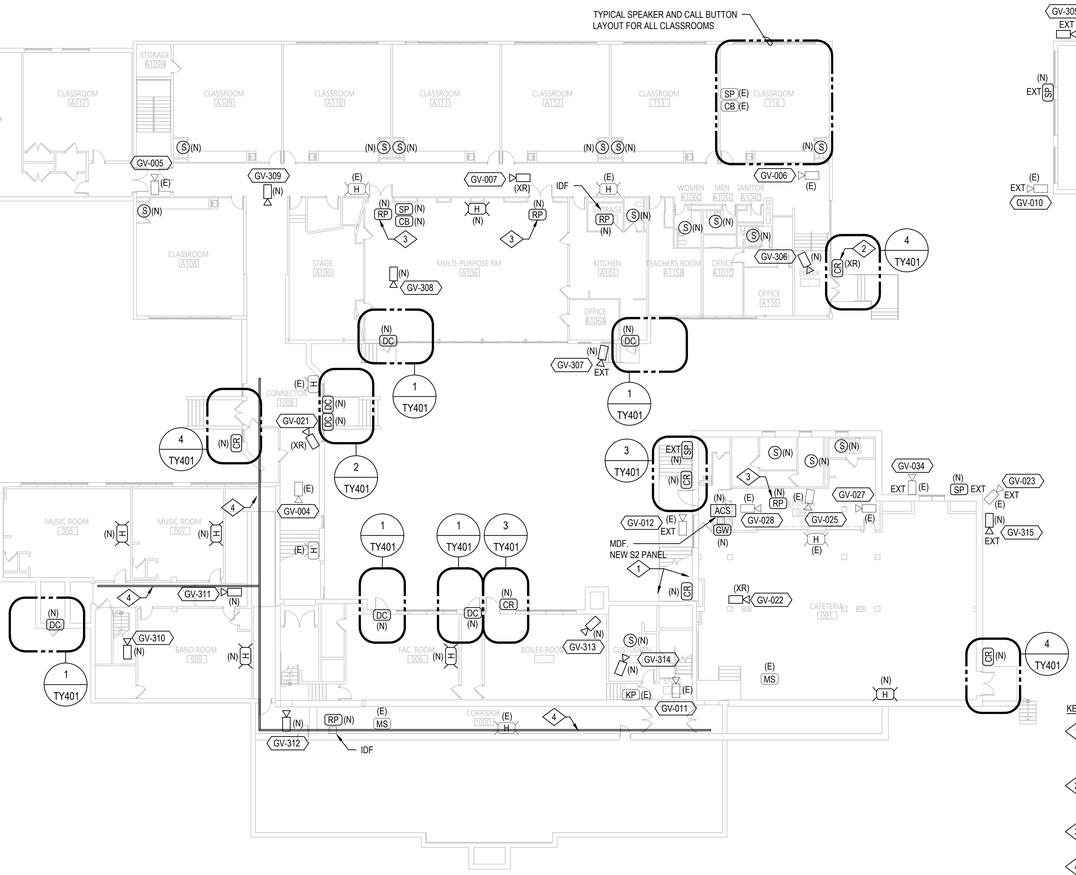
MEMASI PROJECT NO.	102-2202

LEGEND AND ABBREVIATIONS

GR TY001



KEY NOTES:

1. THERE IS EXPOSED CABLING ON THE SIDE OF THE BUILDING THAT APPEARS TO BE TELECOM CONNECTIONS FROM THE SERVICE PROVIDER. CABLING NEEDS TO BE IDENTIFIED AND REPLACED.
2. EXISTING CARD READER TO BE REPLACED. DOOR HAS MAG LOCKS AND REQUEST-TO-EXIT DEVICE THAT NEEDS TO BE REPLACED. CONNECT TO NEW S2 PANEL.
3. COORDINATE EXACT LOCATION WITH DORMAKABA. COORDINATE POWER WITH ELECTRICAL CONTRACTOR.
4. PROVIDE TEMPORARY 4" WIREMOLD METAL RACEWAY WITH COVER FOR DEVICE CABLING DURING THE ABATEMENT TIMELINES. COORDINATE INSTALLATION AND ABATEMENT TIMELINES WITH THE GENERAL CONTRACTOR.

SECOND FLOOR PLAN
1/16" = 1'-0"
11

FIRST FLOOR PLAN
1/16" = 1'-0"
10

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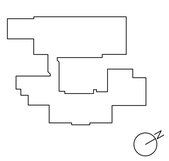

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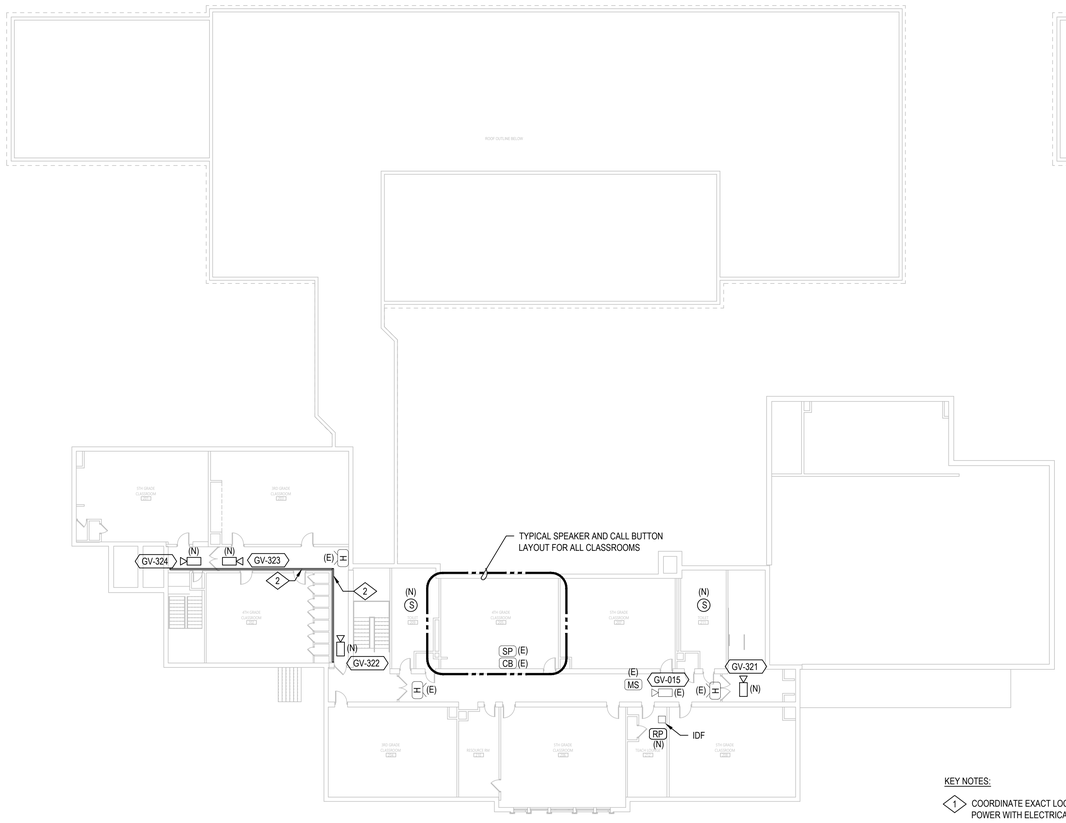
FIRST AND SECOND FLOOR PLANS

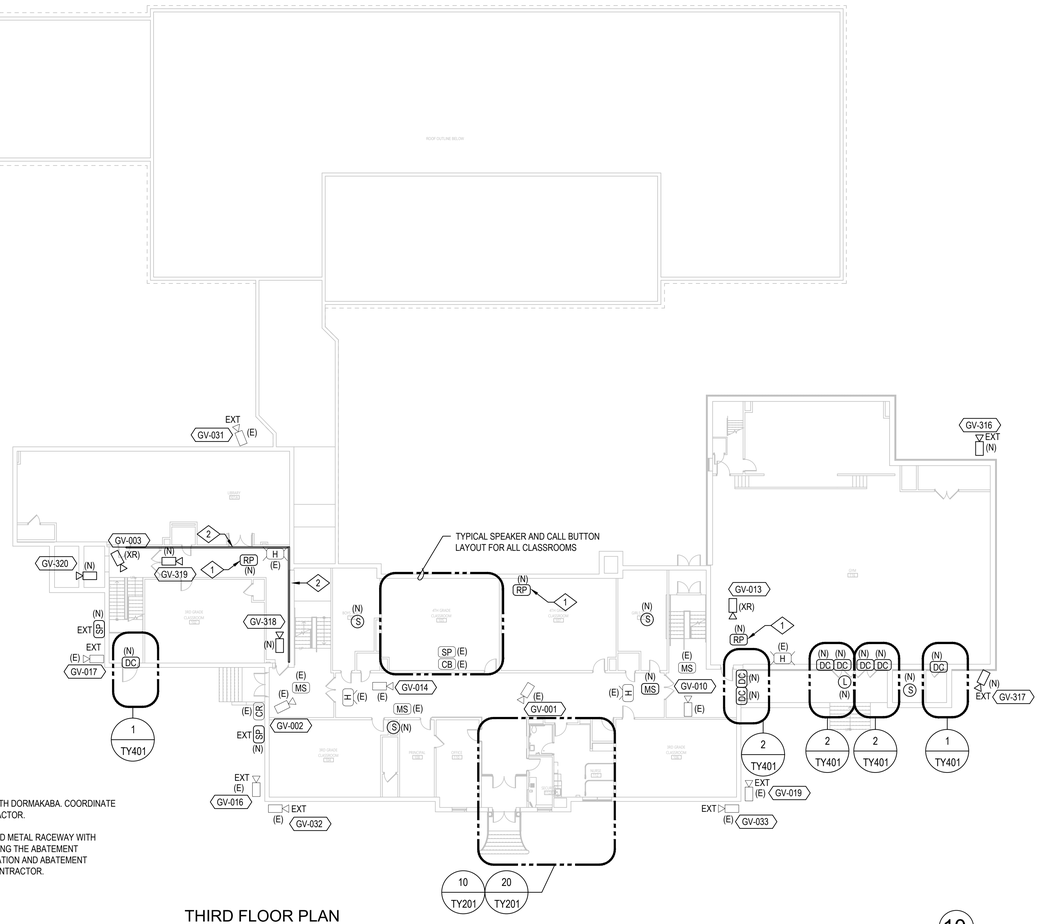
GR TY101



FOURTH FLOOR PLAN

1/16" = 1'-0"

11



KEY NOTES:

1. COORDINATE EXACT LOCATION WITH DORMAKABA. COORDINATE POWER WITH ELECTRICAL CONTRACTOR.
2. PROVIDE TEMPORARY 4" WIREMOLD METAL RACEWAY WITH COVER FOR DEVICE CABLING DURING THE ABATEMENT TIMELINES. COORDINATE INSTALLATION AND ABATEMENT TIMELINES WITH THE GENERAL CONTRACTOR.

THIRD FLOOR PLAN

1/16" = 1'-0"

10

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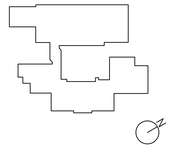

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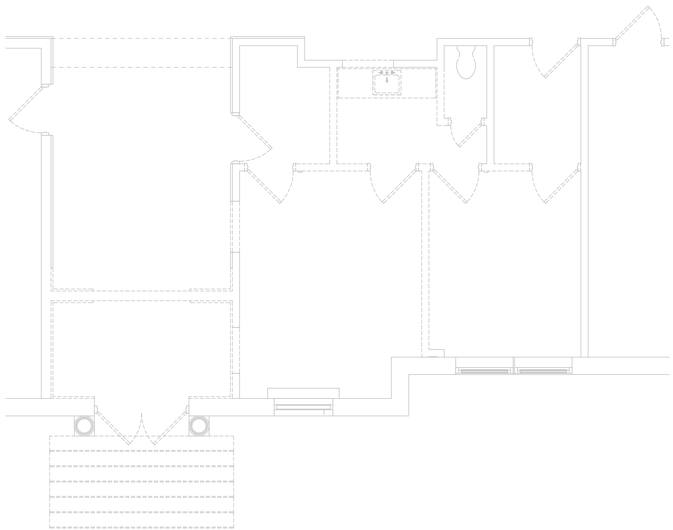
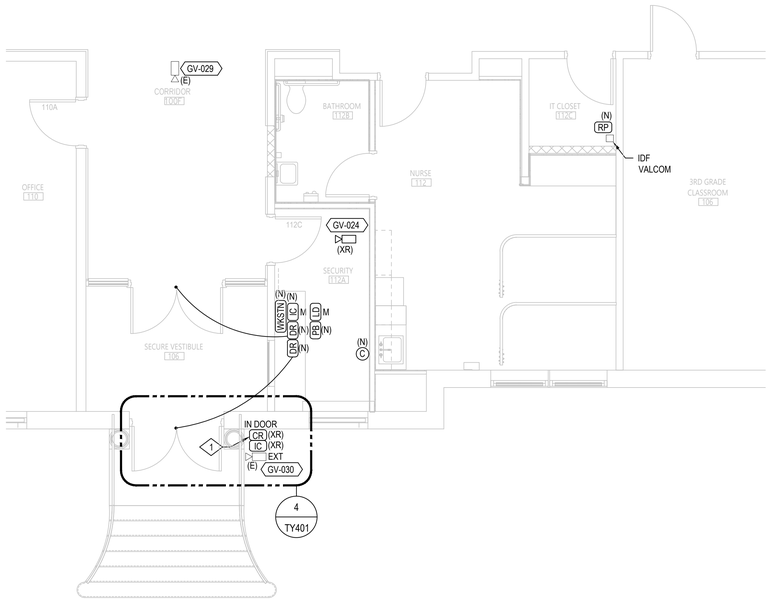
THIRD AND FOURTH FLOOR PLANS

GR TY102



SECURITY VESTIBULE DEMO PLAN
1/4" = 1'-0"
10



SECURITY VESTIBULE NEW PLAN
1/4" = 1'-0"
20

EASTCHESTER UNION FREE SCHOOL DISTRICT

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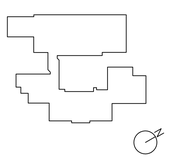

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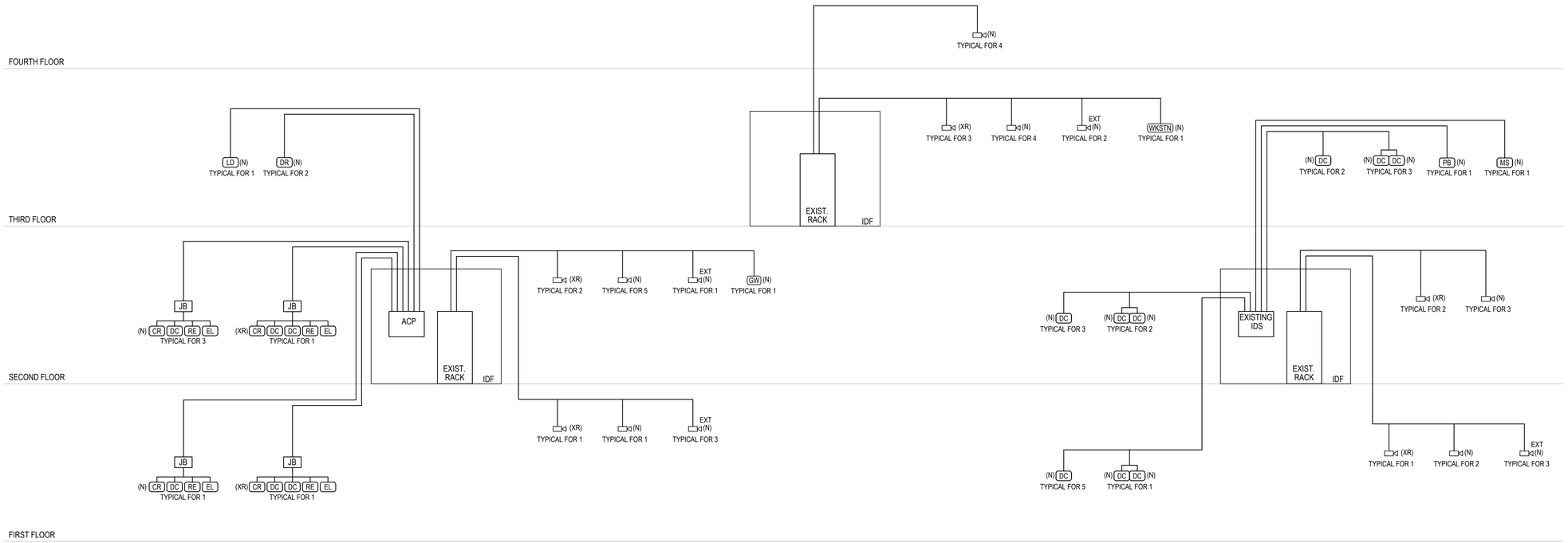
ENLARGED PLANS

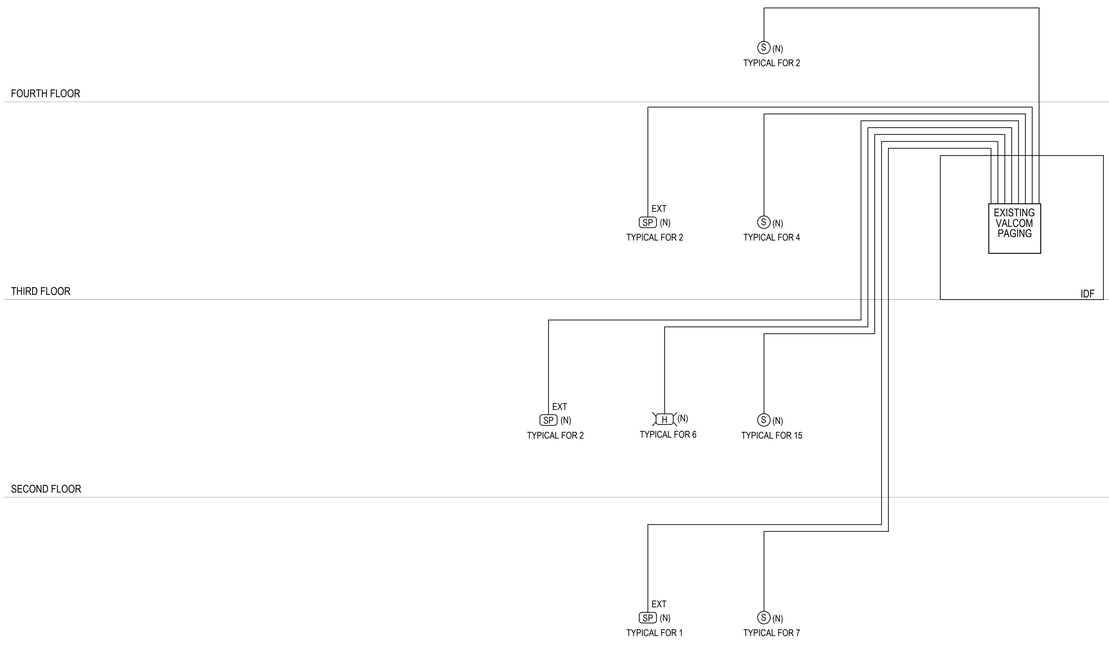
GR TY201



1 SECURITY RISER DIAGRAM
NTS

NOTE:

1. RISER DIAGRAM SHOWS NEW DEVICES WITH NEW CABLE AND NEW DEVICES USING EXISTING CABLE ONLY. REFER TO FLOOR PLANS FOR EXISTING DEVICES USING EXISTING CABLING TO REMAIN.



2 PAGING RISER DIAGRAM
NTS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

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STANTEC
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LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE, #204
PELHAM, NY 10803
914.693.0221

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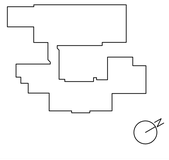

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RISER DIAGRAMS

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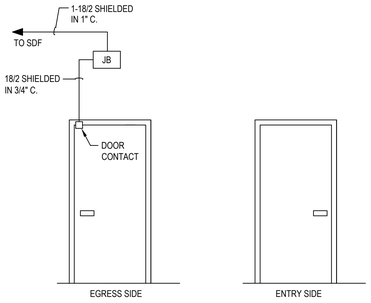
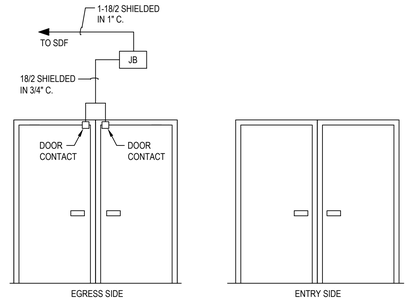
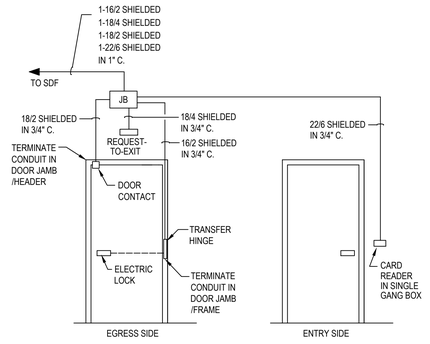


1 MONITORED SINGLE DOOR WIRING DIAGRAM — NO SCALE

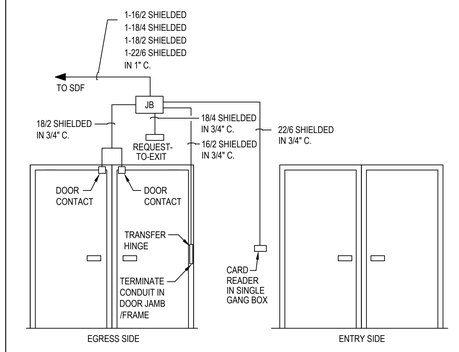


2 MONITORED DOUBLE DOOR WIRING DIAGRAM — NO SCALE



NOTE:
1. ELECTRIC STRIKE AND TRANSFER HINGE TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR AS PART OF THEIR DOOR/HARDWARE SPECIFICATION. ALL OTHER SECURITY COMPONENTS AND ALL WIRING WILL BE BY ELECTRICAL CONTRACTOR.

3 SINGLE DOOR WIRING DIAGRAM WITH CARD READER — NO SCALE



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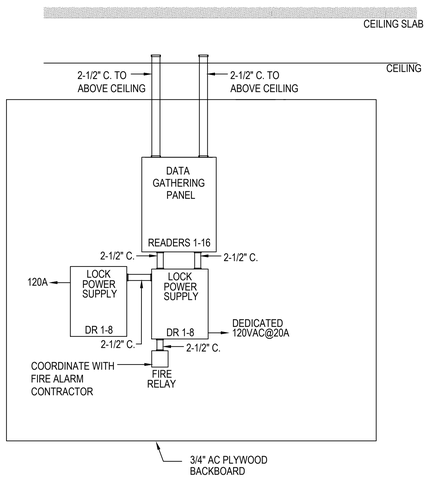
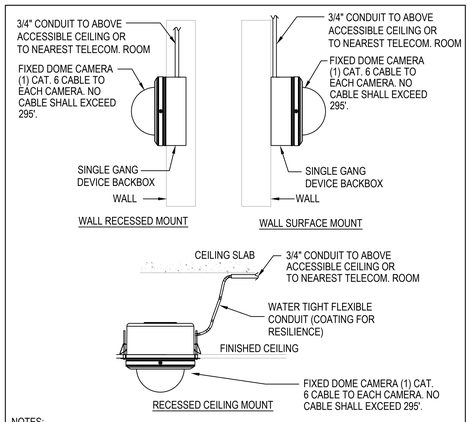
4 DOUBLE DOOR WIRING DIAGRAM WITH CARD READER — NO SCALE

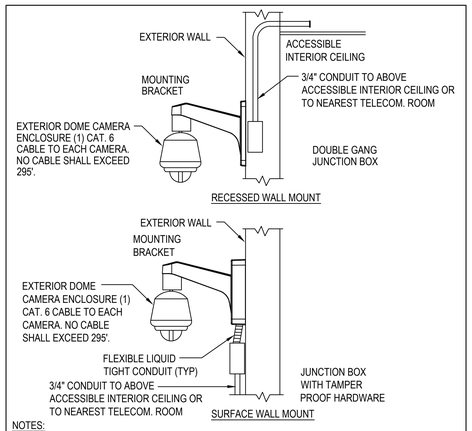


5 SECURITY WALL FIELD — NO SCALE



NOTES:
1. THIS DETAIL REPRESENTS THE INSTALLATION REQUIREMENTS OF CONDUIT AND BOX SIZING AND LOCATIONS.
2. REFER TO ARCH. PLANS FOR ALL DEVICE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
3. CONDUIT SHALL BE REQUIRED IN ALL EXPOSED OR INACCESSIBLE AREAS. THE USE OF J-HOOKS AND OTHER CABLE SUPPORT MECHANISMS THAT ARE ACCESSIBLE ABOVE CONCEALED AND ACCESSIBLE CEILINGS IS ACCEPTABLE.

6 INTERIOR CAMERA MOUNT DETAILS — NO SCALE



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7 EXTERIOR CAMERA WALL MOUNT DETAILS — NO SCALE

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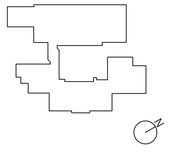

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DETAILS

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