

ASBESTOS ABATEMENT GENERAL NOTES

EASTCHESTER
UNION FREE
SCHOOL DISTRICT

2022 CAPITAL BOND
PROJECT

PHASE 2
WAVERLY E.S.

ARCHITECT

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HAZARDOUS MATERIALS CONSULTANT

WSP
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NEW YORK, NY 10119
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GENERAL NOTES:

- 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 (NYSDDL).
- 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.
- 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.
- 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 NYSDDL.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL RELOCATE ALL FURNITURE, LOCKERS, DESKS AND OTHER MISC. ITEMS IN AND OUT OF THE WORK AREAS TO ACCOMMODATE ASBESTOS REMOVAL ACTIVITIES.
- THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL, WATER, AND WASTE CONNECTIONS, TIE-INS, EXTENSIONS, CONSTRUCTION MATERIALS, SUPPLIES, ETC. AS REQUIRED TO FACILITATE ASBESTOS REMOVAL.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRIC AND LIGHT THROUGHOUT THE WORK AREA(S) AS REQUIRED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.
- THE CONTRACTOR SHALL ESTABLISH CRITICAL BARRIERS OVER ALL OPENINGS LOCATED INSIDE THE PARTICULAR WORK AREA AS WELL AS INSIDE THE SCHOOL.
- THE CONTRACTOR SHALL PROPERLY PROTECT ALL CONTROLS, TUBING, ELECTRICAL PANELS, EQUIPMENT, ETC. WITHIN THE WORK AREA.
- THE CONTRACTOR SHALL BE REQUIRED TO ISSUE NON-WHITE WORK COVERALLS FOR ALL ABATEMENT WORKERS.
- 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.
- 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.
- THE CONTRACTOR SHALL USE A WATER SPRAYER TO WET ASBESTOS-CONTAINING MATERIALS INSIDE THE WORK AREA.
- 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.
- SHOWER WATER AND WASTE WATER MUST BE FILTERED AND DISPOSED OF IN THE BUILDING'S SANITARY SYSTEM. REFER TO CONTRACT SPECIFICATIONS.
- IF WATER IS NOT AVAILABLE, THE CONTRACTOR SHALL PROVIDE A 55-GALLON WATER TANK FOR THE DECONTAMINATION UNIT.
- THE CONTRACTOR SHALL UTILIZE GFCI PANEL CONNECTIONS AT THE SOURCE OUTLET WHEN ACCESSING TEMPORARY POWER.
- 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.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY WATER AND POWER SOURCES PRIOR TO ABATEMENT ACTIVITIES.
- DEBRIS RESULTING FROM ANY DEMOLITION AND/OR ASBESTOS ABATEMENT ACTIVITIES SHALL BE DISPOSED OF AS ASBESTOS CONTAMINATED WASTE.
- 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.
- 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.
- 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.
- THE LOCATION OF THE PERSONAL/WASTE DECONTAMINATION UNITS, AIRLOCKS, ETC. IS SHOWN FOR REFERENCE PURPOSES. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
- ASBESTOS ABATEMENT INDICATED IN THE DRAWING #H-002.00 & #H-003.00 WILL BE DONE IN ACCORDANCE WITH 12 NYCRR PART 56 AND SHALL BE PERFORMED BY A NYSDDL LICENSED ASBESTOS CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL LAYERS OF ASBESTOS FLOORING MATERIALS DOWN TO SUBSTRATE.

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

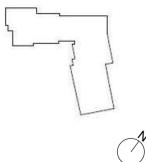


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SEAL

BID SET 01/03/2023
 ISSUE DATE

KEY PLAN



PROJECT NO. 66-03-01-03-0-002-011
 MEMASI PROJECT NO. 102-2202.05

**ASBESTOS
ABATEMENT
GENERAL NOTES**

H-001.00

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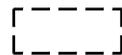
WORK AREA #	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY (Square Feet – Linear Feet)	REMOVAL PROCEDURE
1	1 ST FLOOR, EXTERIOR OFFICE 120B	DOOR FRAME CAULKING (GRAY)	17 LF	NYS DOL 12 NYCRR PART 56 §11.6 EXTERIOR PROJECT REMOVAL OF NON-FRIABLE ACM ROOFING, SIDING, CAULKING, GLAZING, COMPOUND, TRANSITE, TARS, SEALERS, COATING, AND OTHER NOB ACMS

WORK AREA 1

LEGEND



LOCATION OF ASBESTOS-CONTAINING EXTERIOR DOOR FRAME CAULKING (GRAY)



WORK AREA BOUNDARY



TYPICAL DECONTAMINATION UNIT

FIRST FLOOR PLAN
3/32" = 1'-0"

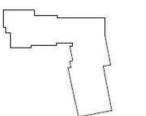


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PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202 05

**ASBESTOS
ABATEMENT
FIRST 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. GC TO PROVIDE NEW STL UNTELS 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 PERFORMED 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. INSTALL CEILING GRIDS CENTERED IN THE ROOM U.O.N. IN ROOMS OTHER THAN RECTANGULAR SHAPED. INSTALL GRIDS CENTERED ON WALLS OR OTHER BUILT FEATURES AS INDICATED
- L. INSTALLATION HEIGHTS OF THE CEILINGS MAY VARY SLIGHTLY FROM PLANS IN ROOMS WITH EXTERIOR WINDOWS. ACTUAL CEILING HEIGHTS TO BE VERIFIED IN THE FIELD
- M. FINAL INSTALLED CEILINGS SHALL HAVE HEIGHTS COORDINATED WITH OTHER CONTRACTORS WITH ABOVE CEILING WORK AND VERIFIED WITH FIELD CONDITIONS. ALL CHANGES IN CONFIGURATION OR HEIGHTS ARE TO BE APPROVED BY THE ARCHITECT

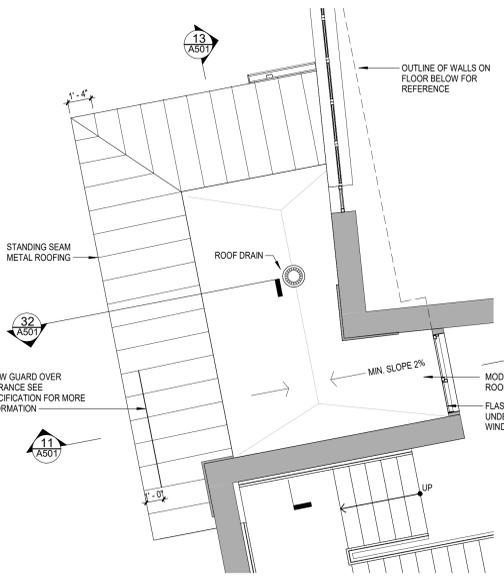
KEY NOTES

- D17 REMOVE STOREFRONT SYSTEM, MULLIONS, DOORS, AND THRESHOLDS INCLUDING ALL FASTENERS AND HARDWARE
- D30 REMOVE FINISHED FLOOR

CASEWORK NOTES

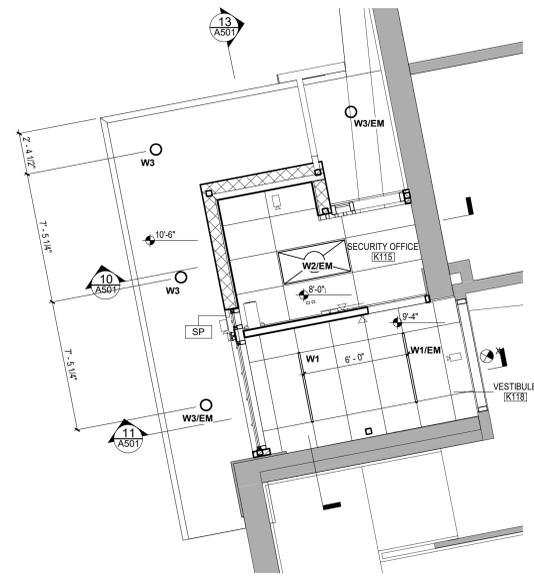
- HEIGHT OF CASEWORK
- WIDTH OF CASEWORK
- AWI DESIGN NUMBER OR SHELDON LABS DESIGN NUMBER OR WENGER DESIGN NUMBER

SPECIALTY EQUIPMENT SCHEDULE MAIN ENTRY				
KEY	COUNT	NAME	COMMENTS	PROVIDED BY
C	1	CLOCK	SECURITY DEVICE	
CR	1	CARD READER	SECURITY DEVICE	
DR	2	UNDERCOUNTER DOOR RELEASE BUTTON	SECURITY DEVICE	FOR COORDINATION - ELECTRICAL CONTRACT
ICM	1	INTERCOM MASTER STATION	SECURITY DEVICE	
LD	2	FSS	SECURITY DEVICE	FOR COORDINATION - ELECTRICAL CONTRACT
PB	1	PANIC BUTTON	SECURITY DEVICE	FOR COORDINATION - ELECTRICAL CONTRACT
SP	1	5" Speaker	SECURITY DEVICE	
WKS	1	WORKSTATION	SECURITY DEVICE	



ROOF PLAN
1/4" = 1'-0"

32

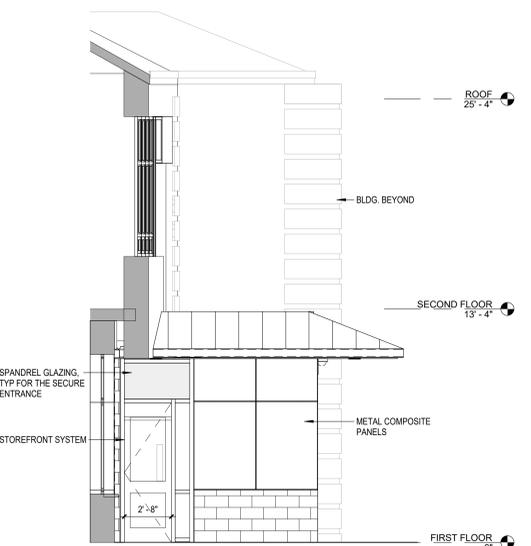


REFLECTED CEILING PLAN
1/4" = 1'-0"

30

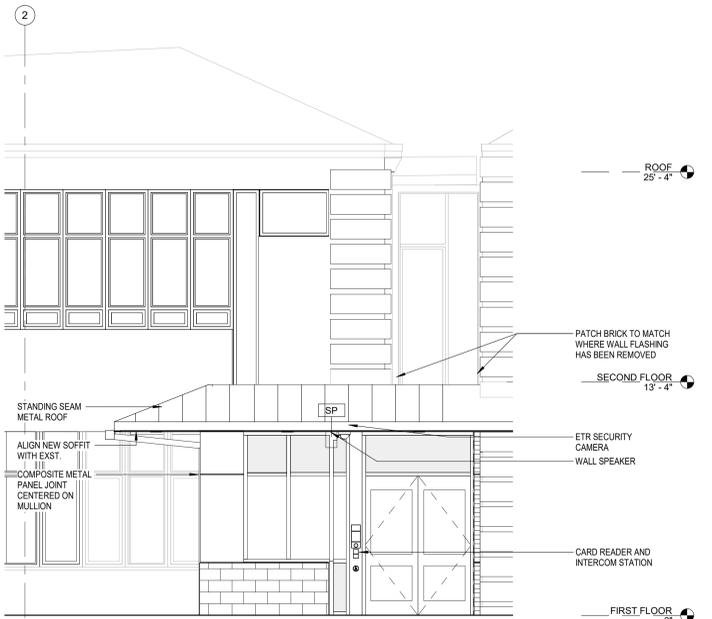
CEILING LEGEND

- GWS OR PLASTER CEILING. REFER TO DETAILS AND ROOM FINISH SCHEDULE
- ▨ ALUMINUM SOFFIT
- ▧ SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
- ▲ "X.X'" CEILING HEIGHT ABOVE FINISHED FLOOR
- ELECTRICAL EQUIPMENT.** REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - 2x4 LIGHT FIXTURE
 - 2x2 LIGHT FIXTURE
 - 1x1 LIGHT FIXTURE
 - PENDANT LIGHT FIXTURE
 - RECESSED DOWN LIGHT
 - CEILING MOUNTED EXIT SIGN
 - OS CEILING MOUNTED OCCUPANCY SENSOR
 - CEILING MOUNTED SMOKE DETECTOR
 - CEILING MOUNTED HEAT DETECTOR
 - CEILING MOUNTED PA SPEAKER
 - CEILING MOUNTED SECURITY J-BOX
- MECHANICAL EQUIPMENT.** REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - ⊗ HVAC SUPPLY GRILLE
 - ⊘ HVAC SUPPLY GRILLE
 - ⊞ HVAC RETURN GRILLE
 - HVAC CEILING CASSETTE
 - ▬ LINEAR DIFFUSER



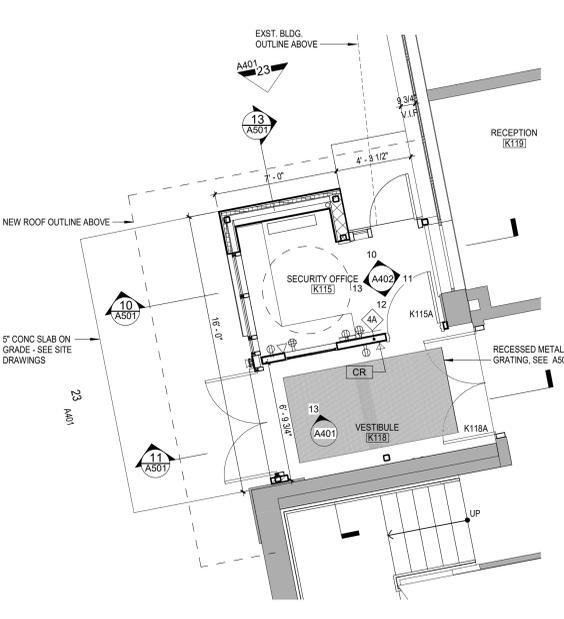
WEST ELEVATION
1/4" = 1'-0"

23



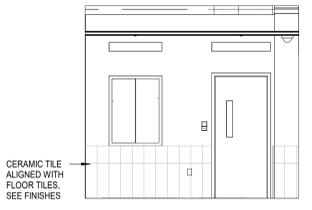
SOUTH ELEVATION
1/4" = 1'-0"

22



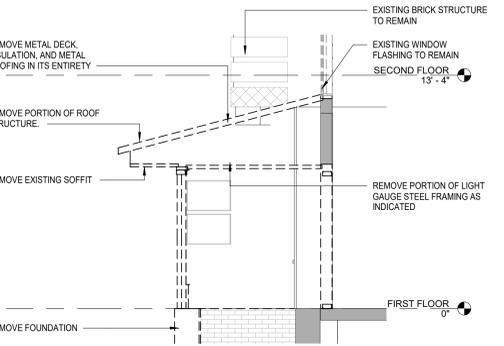
ENLARGED FLOOR PLAN- NEW WORK
1/4" = 1'-0"

20



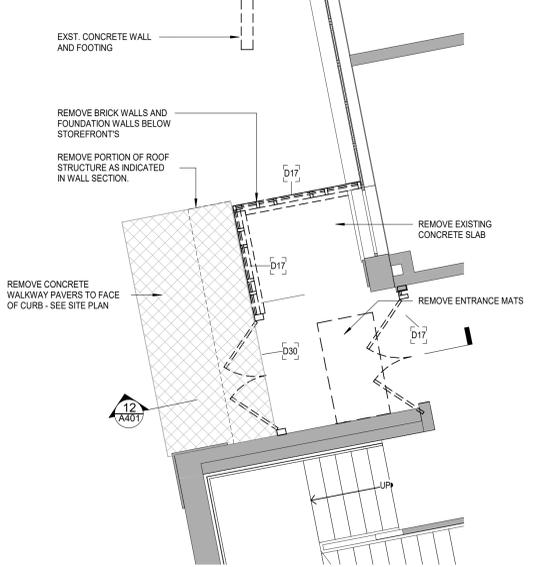
VESTIBULE - NORTH EL.
1/4" = 1'-0"

13



DEMOLITION SECTION - MAIN ENTRY
1/4" = 1'-0"

12



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

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

WAVERLY ELEMENTARY SCHOOL

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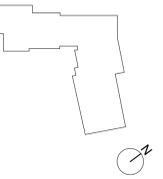
HAZARDOUS MATERIALS CONSULTANT
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ONE PENN PLAZA
230 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10119

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

SEAL

BID SET 01/03/2023
ISSUE DATE

KEY PLAN

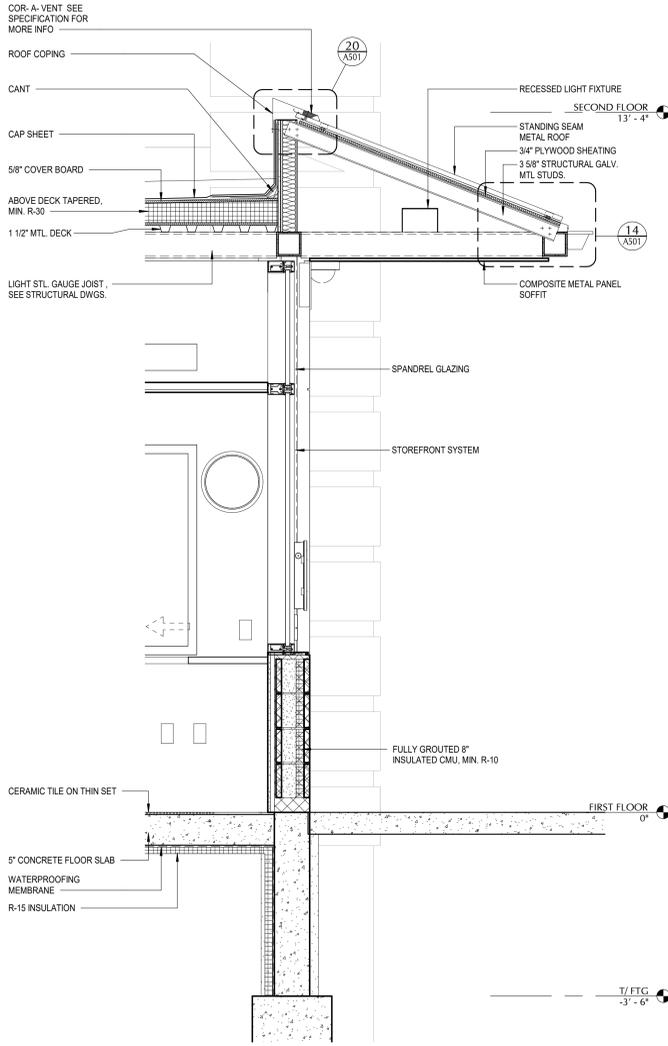


SED PROJECT NO. 66-03-01-03-002-011
MEMASI PROJECT NO. 102-2202

MAIN ENTRY

WA A401

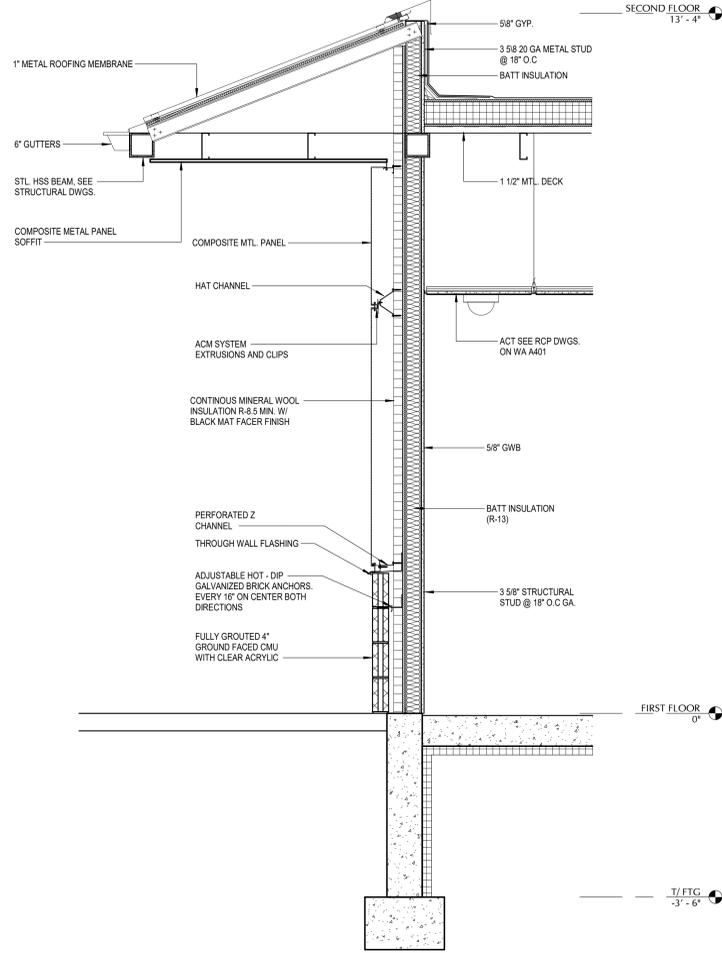
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WALL SECTION 01

3/4" = 1'-0"

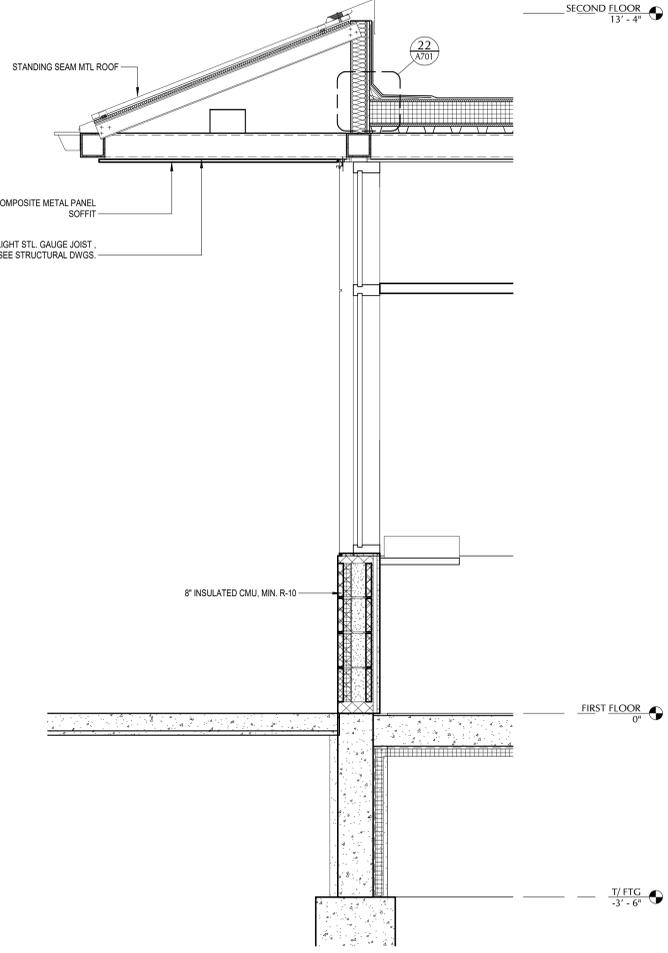
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WALL SECTION AT COMPOSITE PANEL

3/4" = 1'-0"

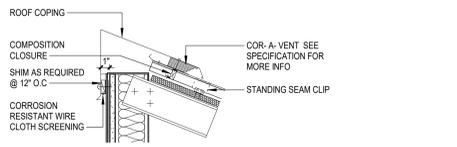
31



WALL SECTION AT STOREFRONT

3/4" = 1'-0"

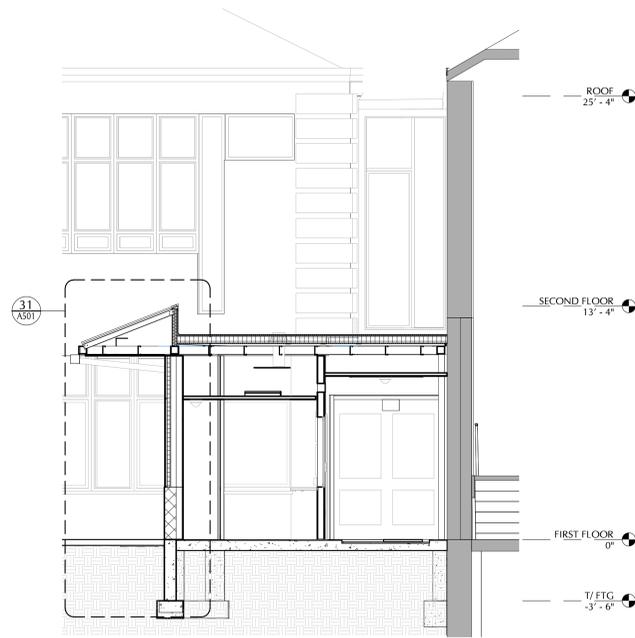
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WALL SECTION 01 - Callout 2

1 1/2" = 1'-0"

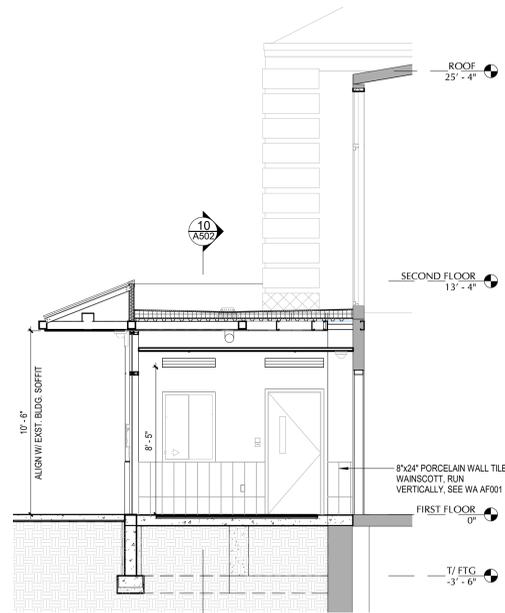
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BUILDING SECTION - MAIN ENTRY

1/4" = 1'-0"

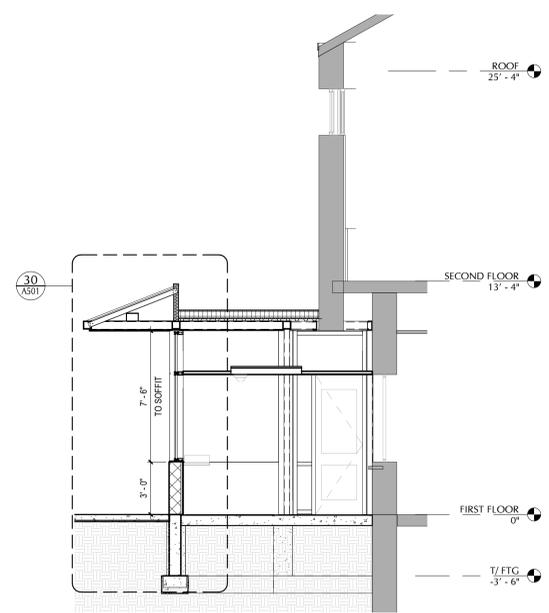
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BUILDING SECTION - MAIN ENTRY

1/4" = 1'-0"

11



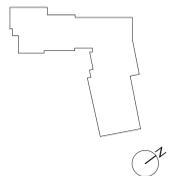
BUILDING SECTION - MAIN ENTRY

1/4" = 1'-0"

10

Table with 2 columns: Description and Date. Includes rows for SEAL, BID SET, and ISSUE.

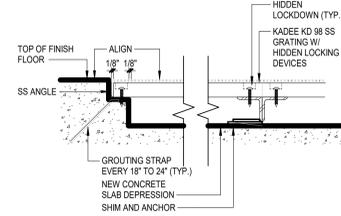
KEY PLAN



SED PROJECT NO. 66-03-01-03-0-002-011 MEMASI PROJECT NO. 102-2202

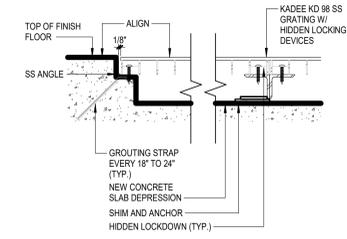
BUILDING SECTIONS AND DETAILS

WA A501



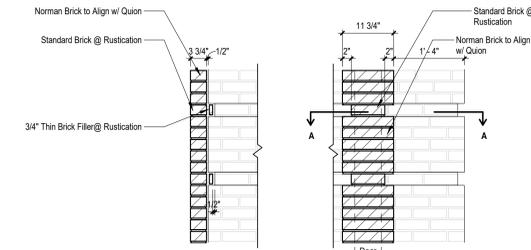
SECTION A SS GRATING DETAIL
3/4" = 1'-0"

41



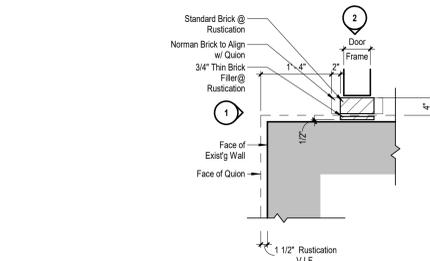
SECTION B SS GRATING DETAIL
3/4" = 1'-0"

40



SECTION

ELEVATION

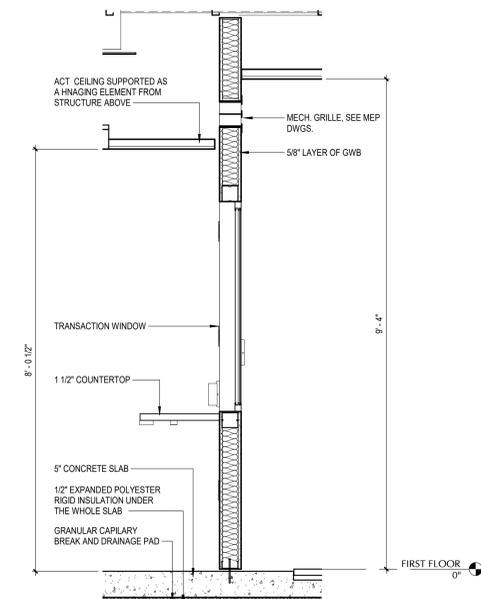


PLAN A-A

BRICK DETAIL @ QUION

3/4" = 1'-0"

30



WALL SECTION

3/4" = 1'-0"

10

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BID SET	01/03/2023
ISSUE	DATE

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MEMASI PROJECT NO.	102-2202

DETAILS

WA A502

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 3/8"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.
D. 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 FRAME GAUGE FOR ABANDONED HARDWARE CUTOUTS OR OTHER OPENINGS. PROTECT THE UL MARKING, PRIME AND PAINT THE HOLLOW METAL FRAMES.
E. 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.
F. 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.

KEY NOTES

GLAZING TYPES

Table with 2 columns: Code and Description. 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)

NEW EXTERIOR DOOR SCHEDULE

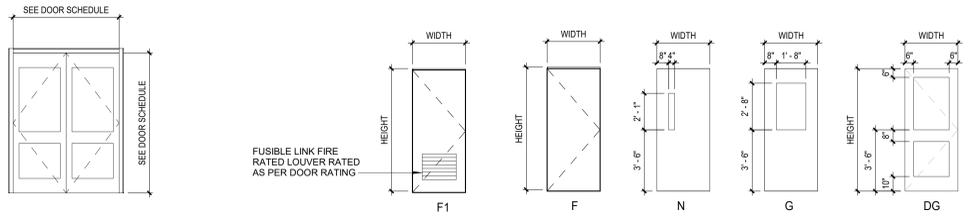
Table with columns: DOOR NUMBER, QUANTITY, FROM, TO, DOOR, WIDTH, HEIGHT, THICKNESS, TYPE, MATERIAL, FINISH, FRAME, HEAD DETAIL, JAMB DETAIL, SILL DETAIL, LABEL (MIN), GLAZING, HARDWARE, MAG HOLD-OPEN, ACCESS CONTROL, REMARKS

NEW INTERIOR DOOR SCHEDULE

Table with columns: DOOR NUMBER, QUANTITY, FROM, TO, DOOR, WIDTH, HEIGHT, THICKNESS, TYPE, MATERIAL, FINISH, FRAME, HEAD DETAIL, JAMB DETAIL, SILL DETAIL, LABEL (MIN), GLAZING, HARDWARE, MAG HOLD-OPEN, ACCESS CONTROL, REMARKS

NEW DOOR (EXISTING FRAME TO REMAIN) SCHEDULE

Table with columns: DOOR NUMBER, QUANTITY, FROM, TO, DOOR, WIDTH, HEIGHT, THICKNESS, TYPE, MATERIAL, FINISH, FRAME, HEAD DETAIL, JAMB DETAIL, SILL DETAIL, LABEL (MIN), GLAZING, HARDWARE, MAG HOLD-OPEN, ACCESS CONTROL, REMARKS



S2 ELEVATION

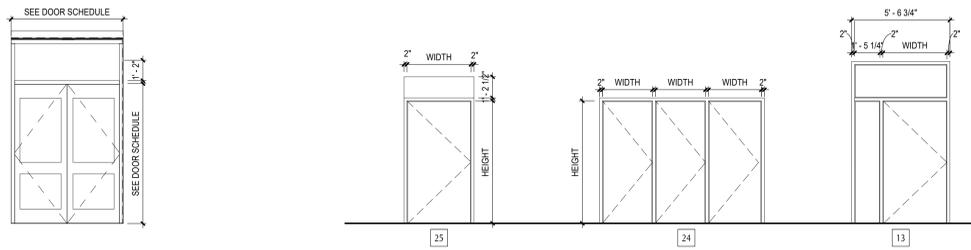
1/4" = 1'-0"

34

A900 DOOR-TYPES

1/4" = 1'-0"

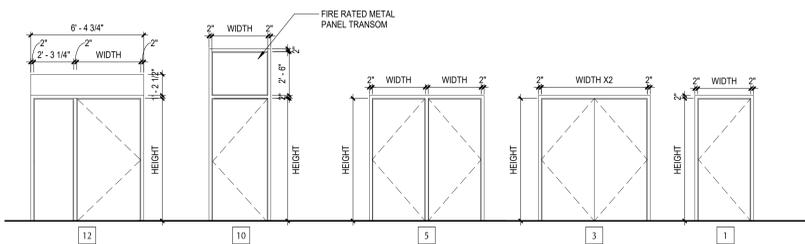
23



S-1 ELEVATION

1/4" = 1'-0"

33



A900 FRAME TYPES

1/4" = 1'-0"

13

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

WAVERLY ELEMENTARY SCHOOL

ARCHITECT

MEMASI

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SITE - CIVIL CONSULTANT

THE LA GROUP 179 GRAHAM ROAD ITHACA, NY 14850

STRUCTURAL CONSULTANT

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MEP CONSULTANT

STANTEC 30 OAK STREET, SUITE 400 STAMFORD, CT 06905

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BUILDING TECHNOLOGY CONSULTING 992 BEDFORD STREET BRIDGEWATER, MA 02344

HAZARDOUS MATERIALS CONSULTANT

WSP ONE PENN PLAZA 250 W 54TH ST., 4TH FLOOR NEW YORK, NY 10119

LIGHTING CONSULTANT

GOLDSTICK LIGHTING DESIGN 629 FIFTH AVE, #204 FISHKILL, NY 10883 914.693.0221

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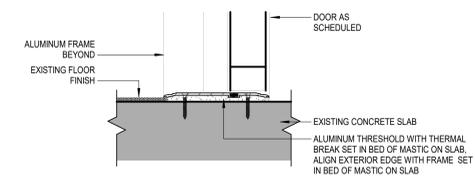
KEY PLAN

SED PROJECT NO. 66-03-01-03-002-011 MEMASI PROJECT NO. 102-2202

DOOR SCHEDULE AND ELEVATIONS

WA A901

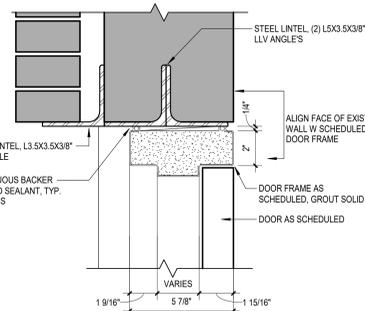
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EXT. DOOR THRESHOLD DETAIL

3" = 1'-0"

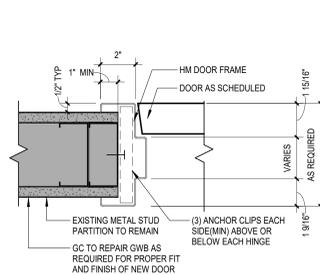
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HEAD DETAIL

3" = 1'-0"

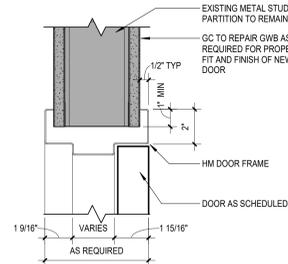
24



JAMB DETAIL

3" = 1'-0"

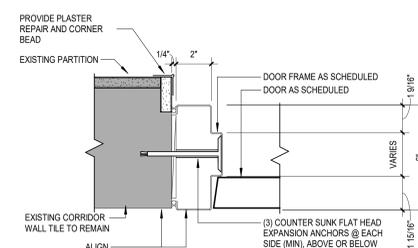
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HEAD DETAIL

3" = 1'-0"

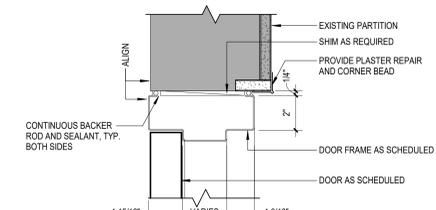
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JAMB DETAIL

3" = 1'-0"

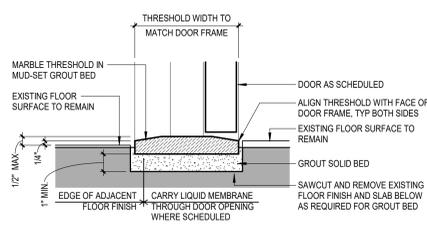
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HEAD DETAIL

3" = 1'-0"

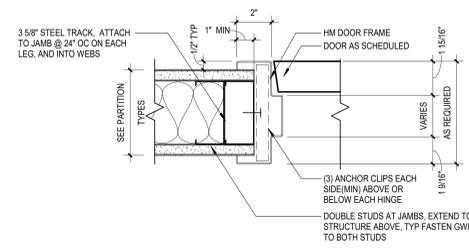
20



THRESHOLD IN EXISTING SLAB

3" = 1'-0"

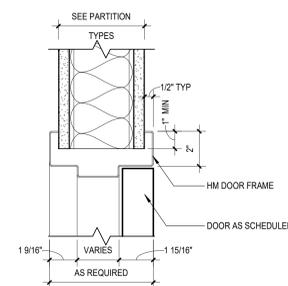
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JAMB DETAIL

3" = 1'-0"

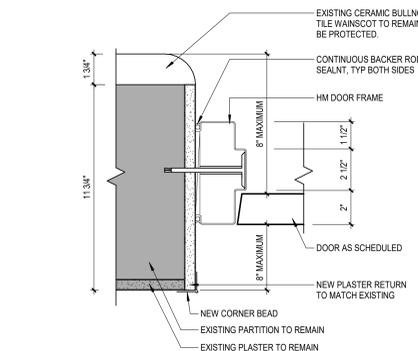
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HEAD DETAIL

3" = 1'-0"

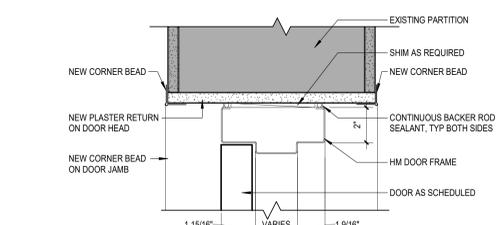
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JAMB DETAIL

3" = 1'-0"

11

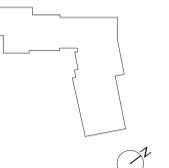


HEAD DETAIL

3" = 1'-0"

10

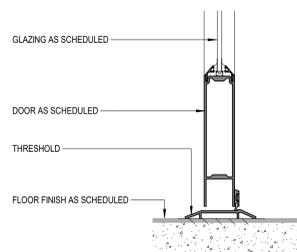
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BID SET	01/03/2023
ISSUE	DATE



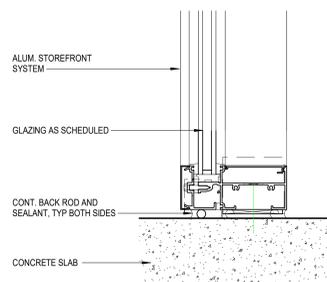
- SEE DWGS. WA A401, WA A402, AND WA A501 SERIES TO LOCATE STOREFRONTS.

GLAZING TYPES

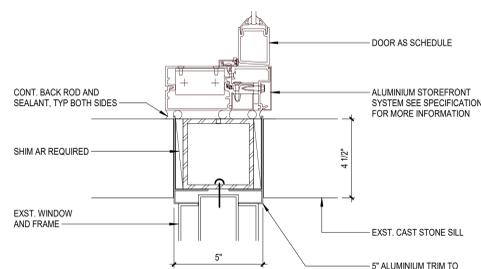
X-1	VISION GLASS
X-2	SPANDREL GLASS
X-3	SECURITY GLASS
I-1	1 HR. FIRE PROTECTED GLASS
I-2	TEMPERED SAFETY GLASS
I-3	SECURITY GLASS (SHOOTER ATTACK CERTIFIED)
I-4	1 HR. FIRE RESISTIVE GLASS
I-5	2 HR. FIRE RESISTIVE GLASS
I-6	1 HR. FIRE RESISTIVE SECURITY GLASS (SHOOTER ATTACK CERTIFIED)



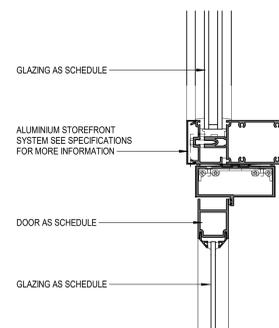
DOOR SILL DETAIL
3" = 1'-0" **24**



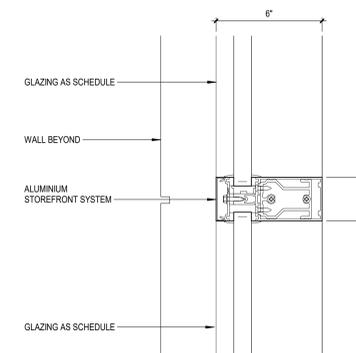
STOREFRONT DETAIL
3" = 1'-0" **23**



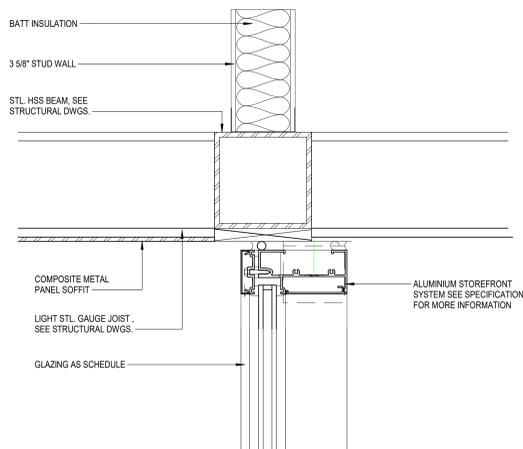
DOOR JAMB DETAIL
3" = 1'-0" **22**



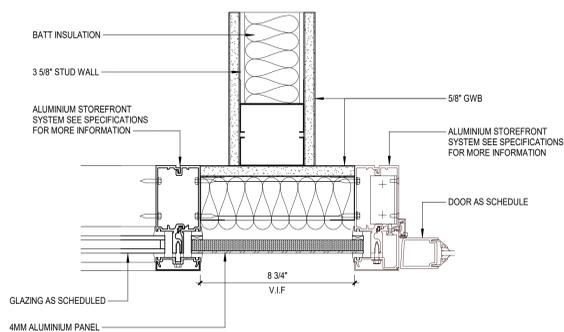
DOORHEAD W/ TRANSOM DETAIL
3" = 1'-0" **21**



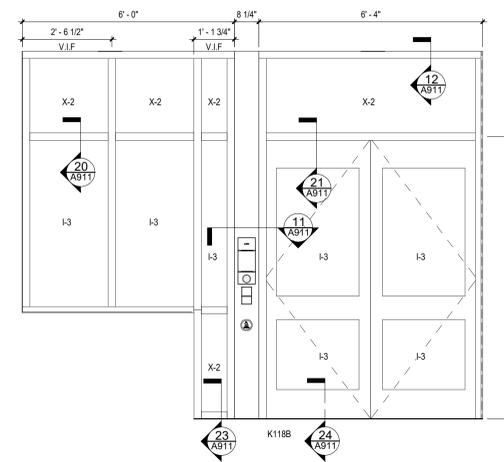
STOREFRONT MULLION / MULLION DETAIL
3" = 1'-0" **20**



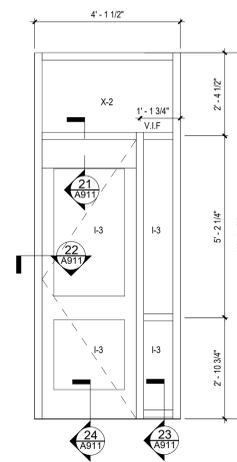
STOREFRONT HEAD DETAIL
3" = 1'-0" **12**



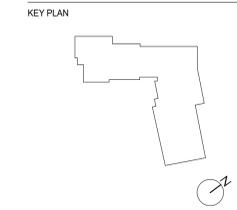
STOREFRONT 1
3" = 1'-0" **11**



STORE FRONT ELEVATIONS
1/2" = 1'-0" **10**



SEAL	
BID SET	01/03/2023
ISSUE	DATE



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

STOREFRONT ELEVATIONS

WA A911

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.

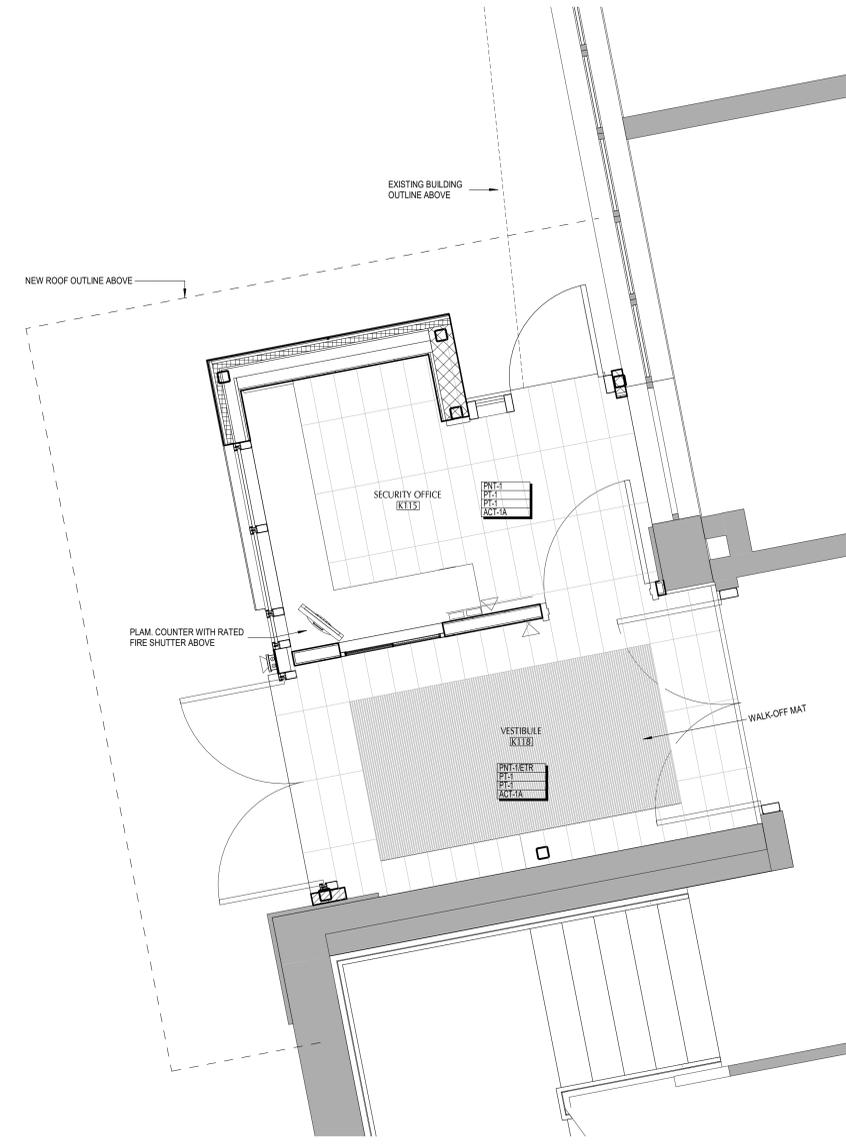
ABBREVIATIONS

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

FINISH LEGEND

ROOM FINISH SCHEDULE								
ROOM NUMBER	ROOM NAME	ROOM STYLE	FLOOR			ACCENT WALL	CEILING	COMMENTS
			FINISH	BASE	WALL FINISH			
K115	SECURITY OFFICE	(none)	PT-1	PT-1	PNT-1		ACT-1A	
K118	VESTIBULE	(none)	PT-1	PT-1	PNT-1/ETR		ACT-1A	UPDATED WORK

SCHEDULE OF FINISH MATERIALS						
TAG	MATERIAL	MANUFACTURER	STYLE / TYPE	COLOR	SIZE	NOTES
PT-1	PORCELAIN TILE	CREATIVE MATERIALS CORPORATION	MOSA TERRA	LIGHT BEIGE (206)	8" x 24"	
CPT-8A	CARPET	TBD	TBD	TBD	TBD	
PNT-1	PAINT	TBD	TBD	TBD	TBD	
PLAM	PLASTIC LAMINATE	FORMICA		9684-58 NATURAL RECYCLED...		
ACT-1A	ACT CEILING	ARMSTRONG	OPTIMA TEGULAR	WHITE	24" X 48"	SEISMIC RX SUSPENSION SYSTEM



EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
 PHASE 2

WAVERLY ELEMENTARY SCHOOL

ARCHITECT
MEMASI
 2 LYON PLACE
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 173 GRAHAM ROAD
 ITHACA, NY 14850

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 MASSAPEQUA PARK, NY 11762

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

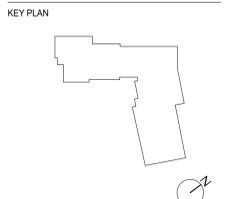
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GOLDSTICK LIGHTING DESIGN
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 FIELHAM, NY 10803
 914.693.0221

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SED PROJECT NO. 66-03-01-03-0-002-011
 MEMASI PROJECT NO. 102-2202

FIRST FLOOR FINISH PLAN & MATERIAL SCHEDULE

WA AF001
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**EASTCHESTER
UNION FREE
SCHOOL DISTRICT**

2022 CAPITAL BOND PROJECT
PHASE 2

WAVERLY ELEMENTARY
SCHOOL

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ITHACA, NY 14850

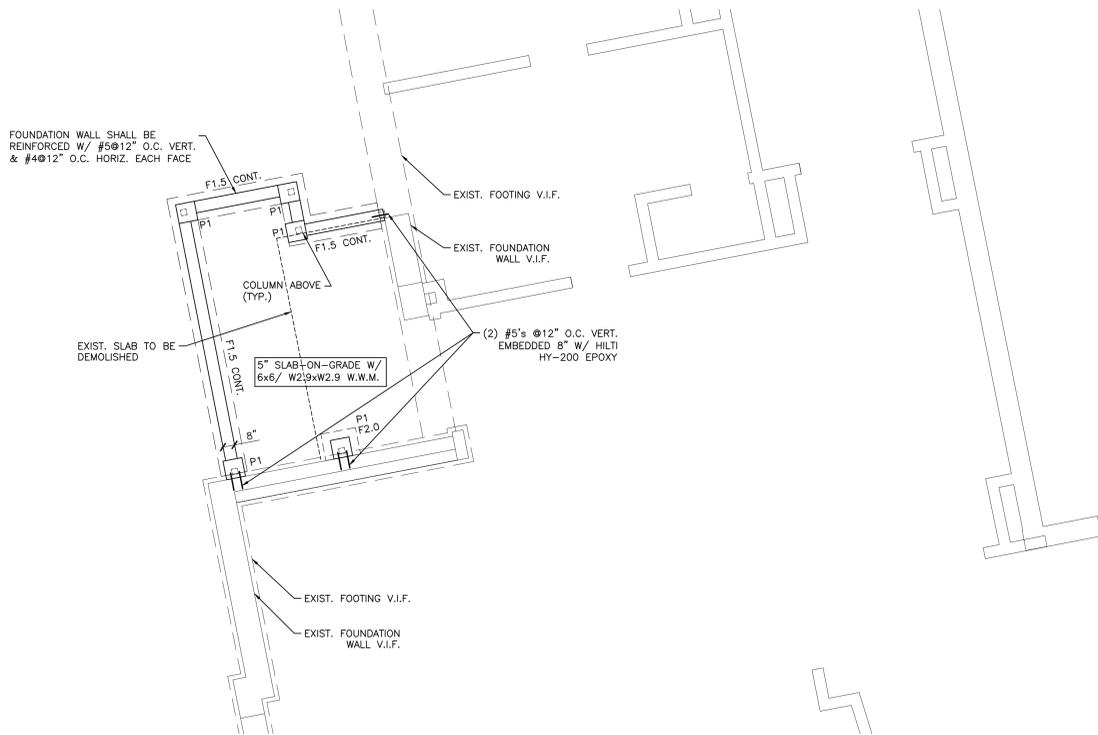
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PELHAM, NY 10803
914.693.0221



1
FO-100 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"
NOTES:
1. FOUNDATION WALL SHALL BE REINFORCED W/ #5@12" O.C. VERT. & #4@12" O.C. HORIZ. EACH FACE.
2. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCEMENT.

MARK	SIZE		REINFORCEMENT		REMARKS
	WxL		LONG DIR.	SHORT DIR.	
F1.5 CONT.	1'-6"xCONT.	1'-0"	2-#5	#5@12" O.C.	N/A
F2.0	2'-0"x2'-0"	1'-6"	4-#5	4-#5	N/A

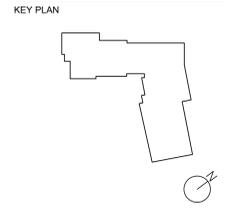
MARK	SIZE		REINFORCEMENT		REMARKS
	WIDTH	LENGTH	VERT.	STIRRUPS	
P1	1'-1"	1'-1"	6-#5	#4@12" O.C.	N/A



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SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

**FOUNDATION
PLAN**

WA FO-100

**EASTCHESTER
UNION FREE
SCHOOL DISTRICT**

2022 CAPITAL BOND PROJECT
PHASE 2

WAVERLY ELEMENTARY
SCHOOL

ARCHITECT
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WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

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THE LA GROUP
179 GRAHAM ROAD
ITHACA, NY 14850

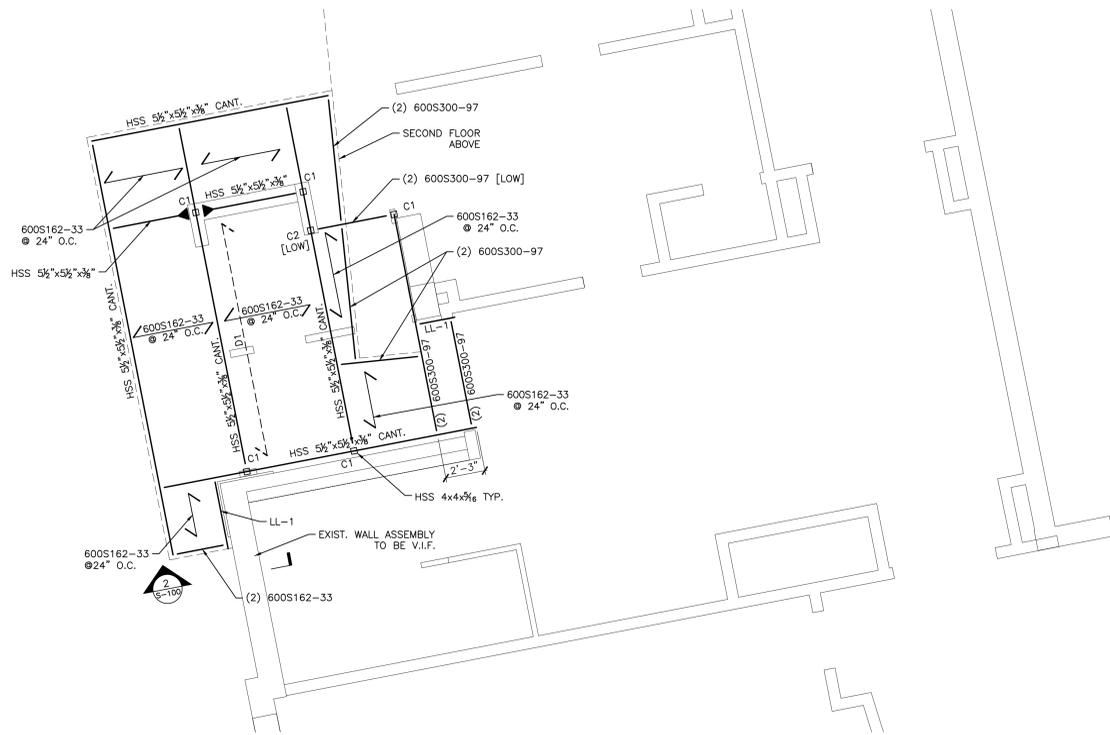
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MASSAPEQUA PARK, NY 11762

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

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

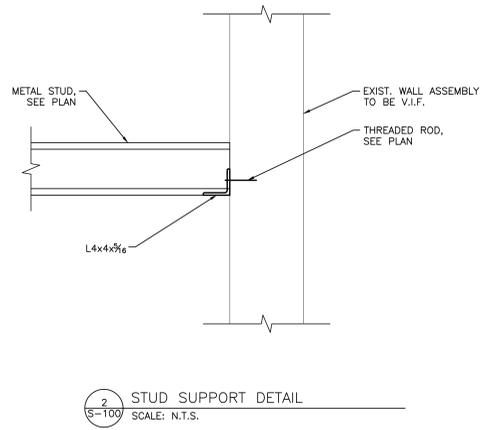
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250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10119

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



1
5-100
SECOND FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"
NOTES:
1. "1.5" INDICATES 1.5" B 24 GA. METAL DECK.
2. "C1" INDICATES HSS 4x4x3/16 STEEL COLUMN.
3. "C2" INDICATES (2) 2"x6"x18GA CF STUDS.

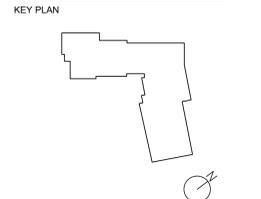
LINTEL SCHEDULE			
MARK	SIZE	END BEARING	REMARKS
LL-1	L4x4x3/16	N/A	FASTENED @ 16" O.C. (3 FASTENERS MINIMUM)



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SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

**SECOND FLOOR
FRAMING PLAN**

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

WAVERLY ELEMENTARY SCHOOL

ARCHITECT
MEMASI
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914.915.9519
MEMASIDESIGN.COM

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

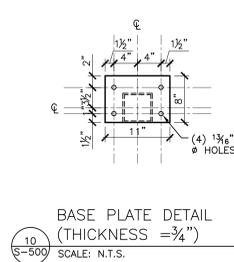
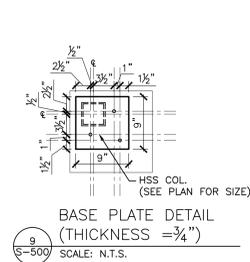
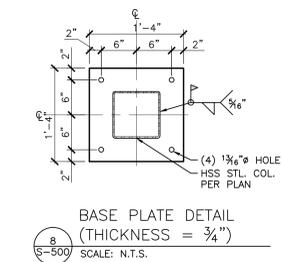
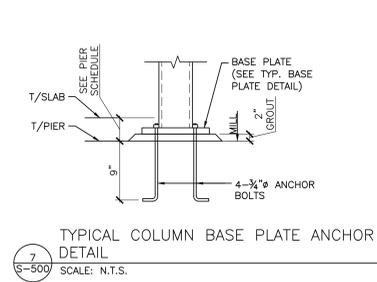
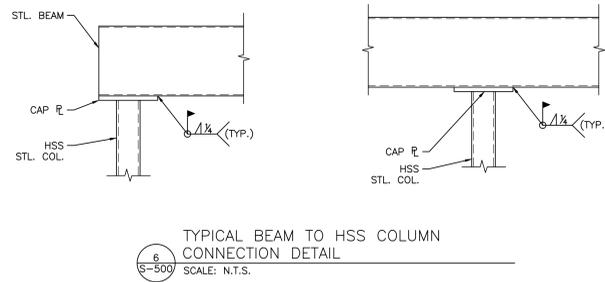
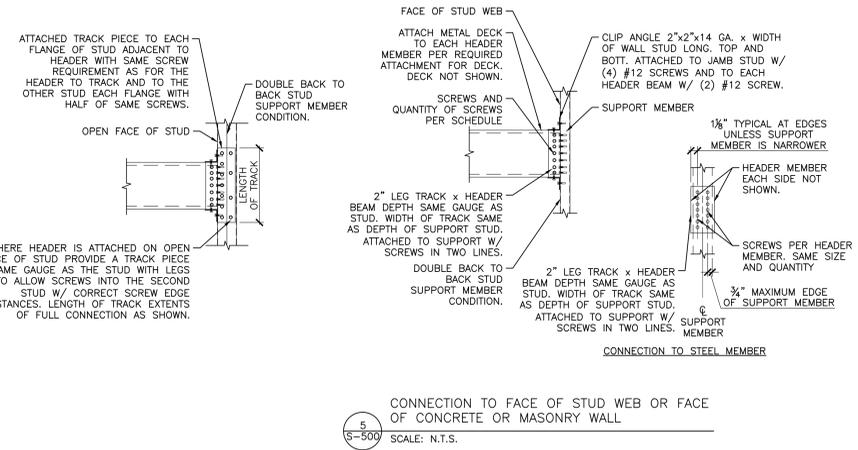
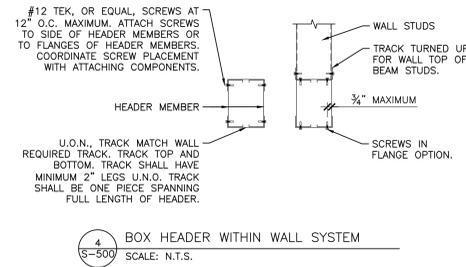
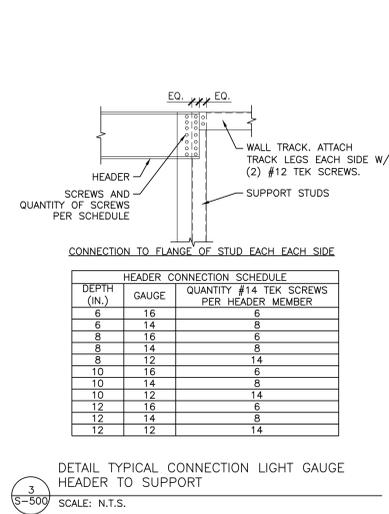
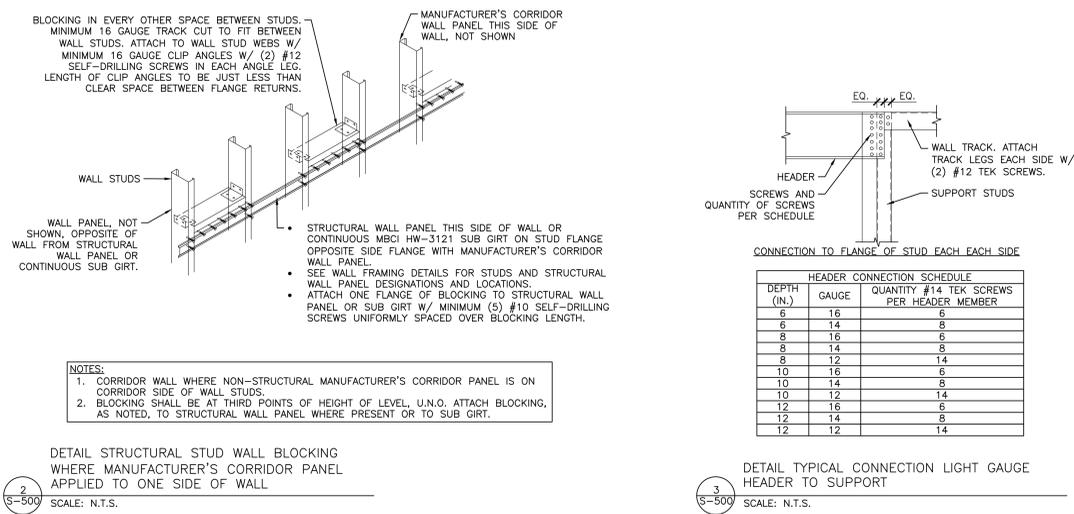
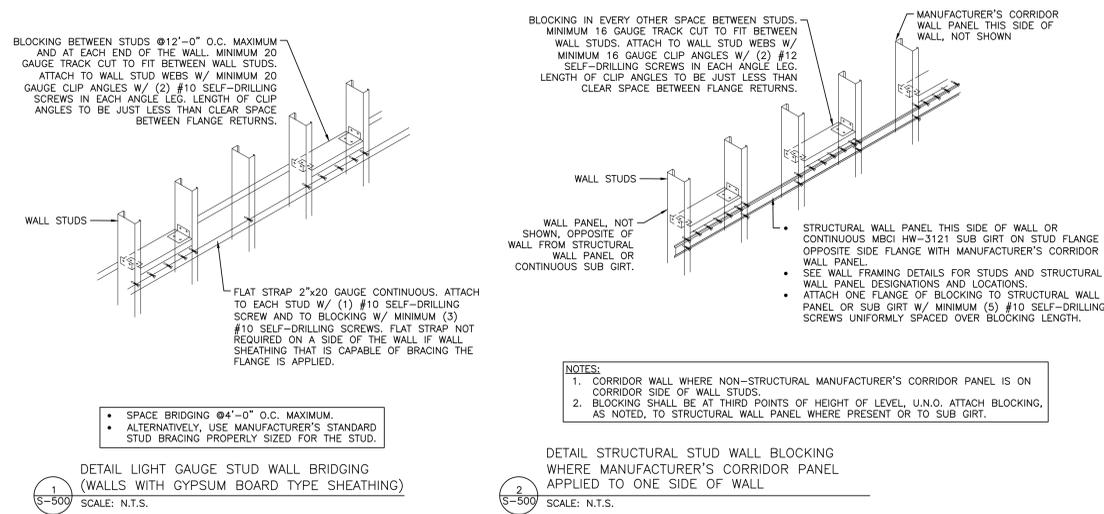
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1000 PARK BLVD., SUITE 209
MASSAPEQUA PARK, NY 11752

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GOLDSTICK LIGHTING DESIGN
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914.693.0221

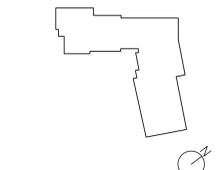


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BID SET 01/03/2023
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KEY PLAN



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

COLD FORMED STEEL DETAILS I

WA S-500

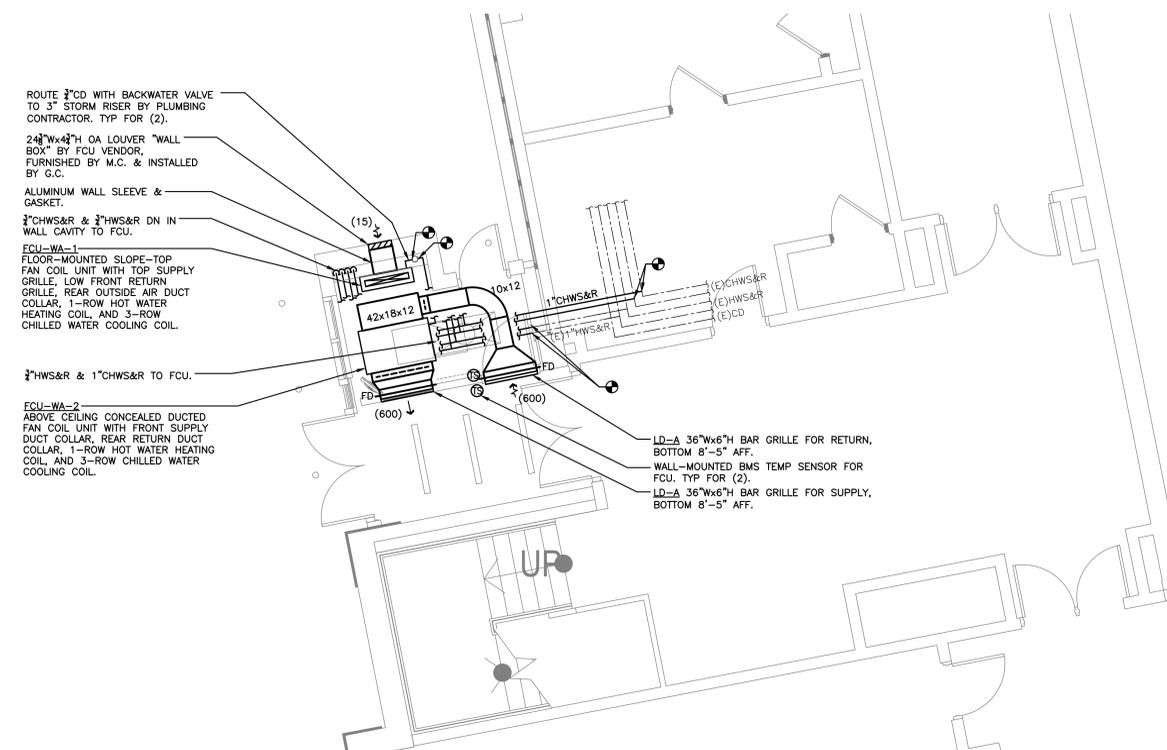
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NEW CONSTRUCTION NOTES - DUCTWORK:

- BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
- ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
- 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.
- BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.
- 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.
- 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.

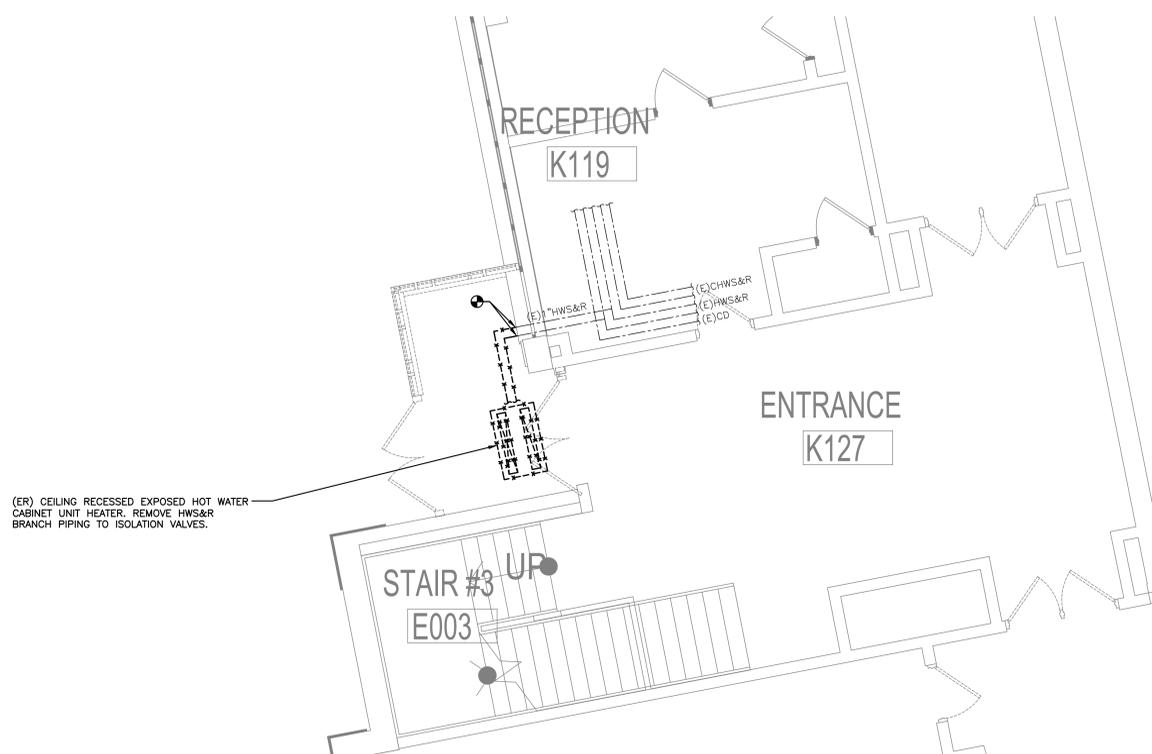
NEW CONSTRUCTION NOTES - PIPING:

- ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
- 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.
- 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.



PART PLAN - FIRST FLOOR

1/4" = 1'-0"

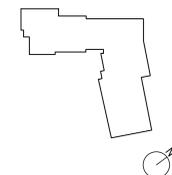


DEMOLITION PART PLAN - FIRST FLOOR

1/4" = 1'-0"

SEAL	
BID SET	01/03/2023
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-03-01-03-0-002-011
MEMASI PROJECT NO.	102-2202

FIRST FLOOR VESTIBULE PARTIAL PLANS

WA 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 NYS ED 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 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 AIRFLOW MEETS OR EXCEEDS NYS ED REQUIREMENT (YES / NO)
FCU-WA-1	200	15	K125	SECURITY OFFICE	67	1	200	15	5	0.06	0.8	11	YES	15	0.00	15	YES

FAN COIL UNIT SCHEDULE																																																												
DESIGNATION	CONFIGURATION	AIR CONNECTIONS				SUPPLY FAN DATA						COILS				CHILLED WATER (OR DUAL TEMP) COIL COOLING DATA												HOT WATER (OR DUAL TEMP) COIL HEATING DATA						ELECTRICAL DATA												FILTER PRE-FILTER	UNIT OVERALL DIMENSIONS			WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS							
		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	CHILLED WATER	HOT WATER	DUAL TEMP HOT & CHILLED	FLUID	TOT. MBH	SENS. MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. (°F)	E.A.T. (°F)	L.A.T. (°F)	L.A.T. (°F)	W.P.D. (FT-WC)	FLUID	MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. (°F)	E.A.T. (°F)	L.A.T. (°F)	L.A.T. (°F)	W.P.D. (FT-WC)	HEATING MBH	STEAM PRESSURE (PSIG)	STEAM FLOW (LBS/HR)	E.A.T. (°F)	L.A.T. (°F)	VOLTS		PH	Hz	MCA					MOP	BY E.C OR MANUF.	DISCONNECT LOCATION	TYPE	ENCL. TYPE	PWR. (Y/N)	EMER.
FCU-WA-1	VERTICAL SLOPE TOP	TOP GRILLE	LOW FRONT GRILLE	REAR DUCT COLLAR	200	15	0.30	1	0.13	0.04	CENTRIFUGAL	DIRECT	ECM	AT MOTOR	-	3-ROW	1-ROW	-	WATER	5.5	4.6	0.9	44	56	80	67	59	57	1.8	WATER	11.0	1.1	180	160	55	106	2.7	-	-	-	-	-	120	1	60	2.8	15	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N	1" MERV-13	33	29	10	97	TRANE	FC-J-B-020	SEE NOTES BELOW
FCU-WA-2	HORIZONTAL CONCEALED	FRONT DUCT COLLAR	REAR DUCT COLLAR	-	600	-	0.30	1	0.22	0.21	CENTRIFUGAL	DIRECT	ECM	AT MOTOR	-	3-ROW	1-ROW	-	WATER	16.4	14.0	2.7	44	56	80	67	58	56	3.8	WATER	27.9	2.8	180	160	55	98	6.8	-	-	-	-	120	1	60	3.9	15	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N	1" MERV-13	47	25	10	139	TRANE	FC-C-B-060	SEE NOTES BELOW	

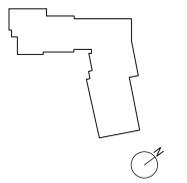
- NOTES:
- PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS WITH OUTSIDE AIR INTAKE CONNECTIONS:
 - 2-POSITION OUTSIDE AIR MOTORIZED DAMPER AND ACTUATOR, "OPEN" POSITION FIELD ADJUSTIBLE FROM 0-50%.
 - PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL FLOOR-MOUNTED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

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

SEAL	_____
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BID SET	01/03/2023
ISSUE	DATE

KEY PLAN

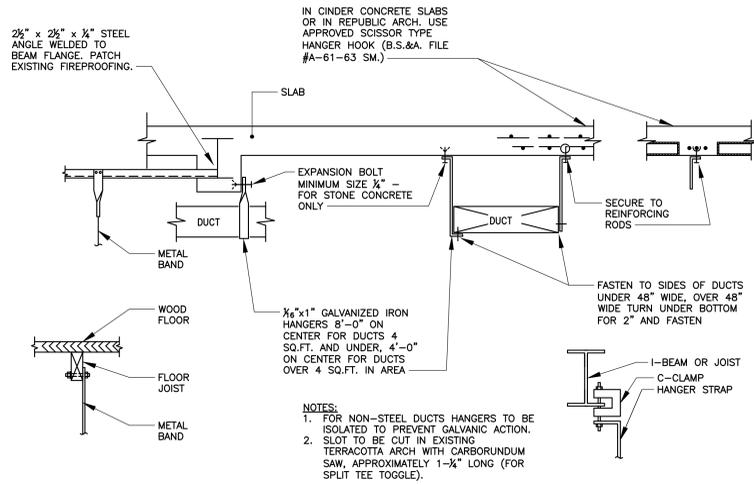


SED PROJECT NO. 66-03-01-03-002-011
MEMASI PROJECT NO. 102-2202

SCHEDULES

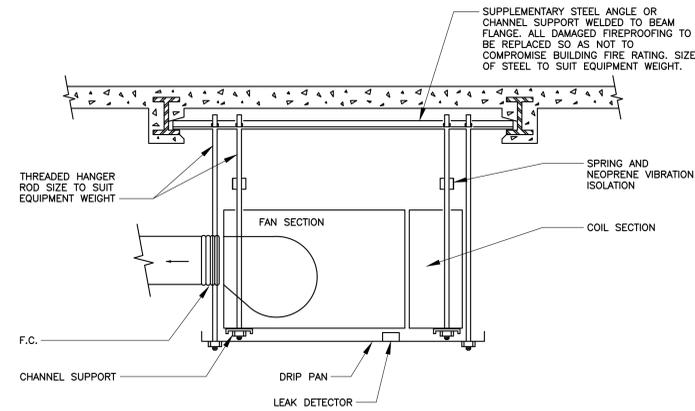
WA M201

U:\22030897\0_WORKING_FILES\00_MEP\02_CAD\PHASE_2_EUPD_VESTIBULES\SHEETS\WA_22030897_WA_M001.DWG 12/20/2022 12:40 AM Rkls - jremy



TYPICAL DUCT HANGING DETAIL

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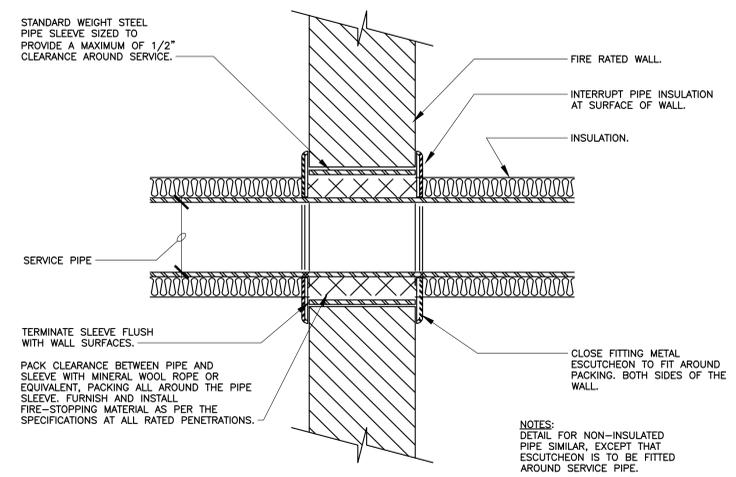


NOTES:

- 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.).
- 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.

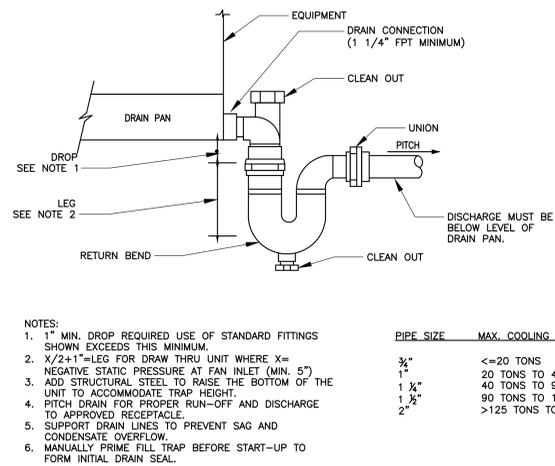
HVAC EQUIPMENT HANGING DETAIL

N.T.S.



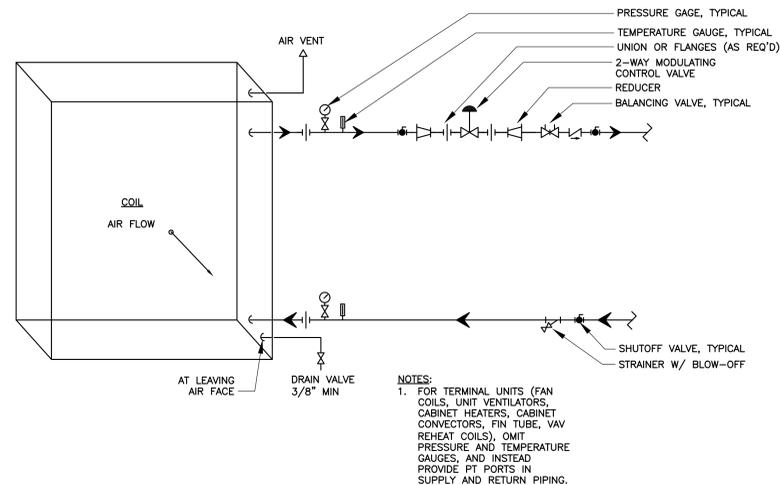
DETAIL OF PIPE THROUGH RATED PARTITION OR FLOOR

N.T.S.



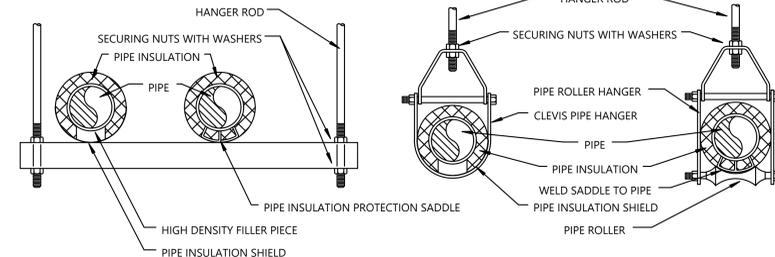
TYPICAL CONDENSATE DRAIN PIPING DETAIL (DRAW THROUGH)

N.T.S.



HOT/CHILLED WATER COIL PIPING DETAIL

N.T.S.



PIPE HANGING DETAIL

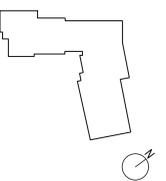
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SEAL

NO.	DESCRIPTION	DATE

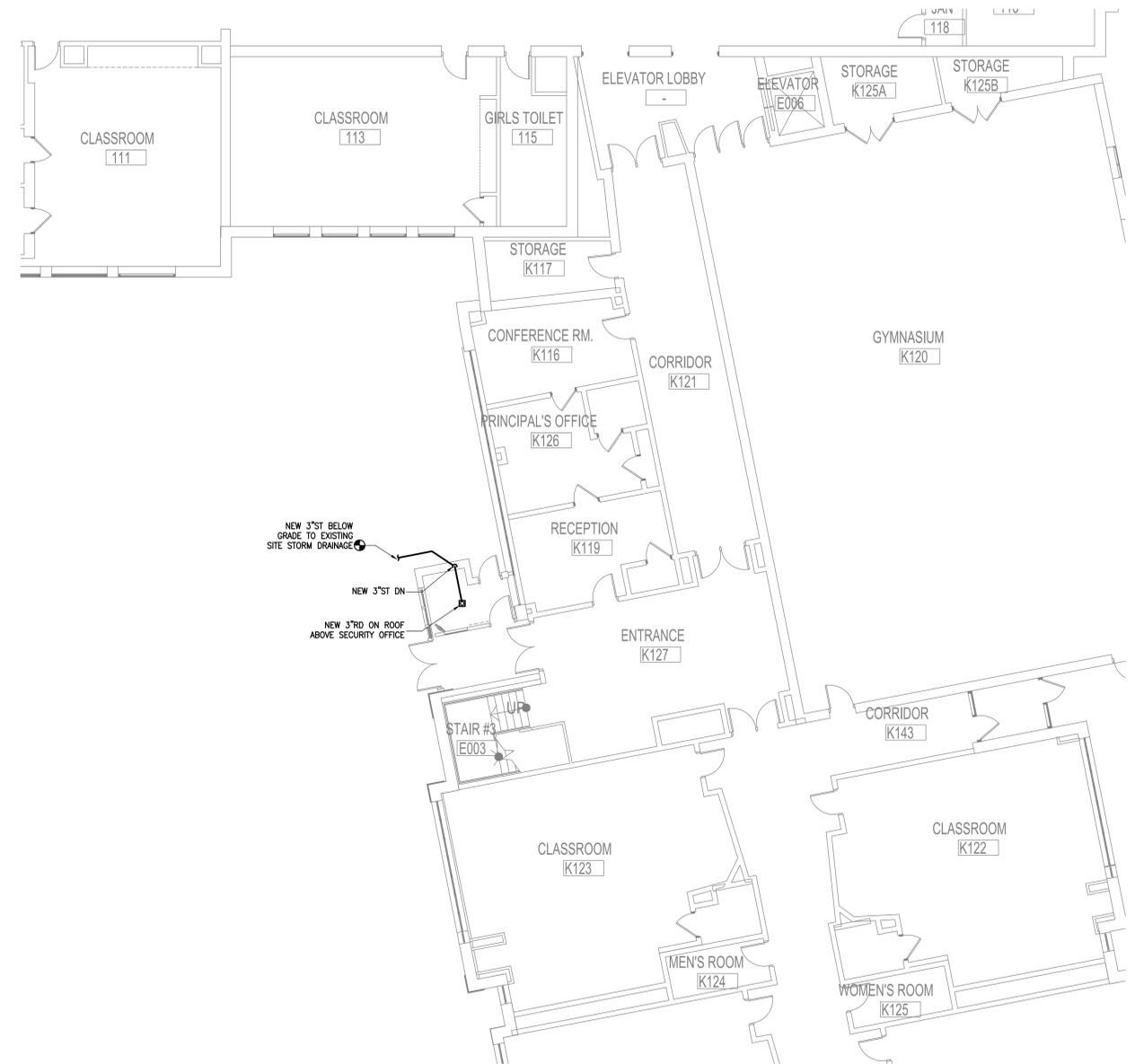
BID SET 01/03/2023
ISSUE DATE

KEY PLAN



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

DETAILS



NEW 3\"/>

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

SEAL	
KEY PLAN	
BID SET	
BID SET	01/03/2023
ISSUE	
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SEID PROJECT NO.	66-03-01-03-0-002-011
MEMASI PROJECT NO.	
MEMASI PROJECT NO.	102-2202

**FIRST FLOOR
VESTIBULE
PARTIAL PLANS**

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
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, #204
PELHAM, NY 10863
914.693.0221

ELECTRICAL GENERAL NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONDUIT SHALL BE RIGID THREADED REGARDLESS OF SIZE IN LOCATIONS PER PROJECT SPECIFICATIONS.
- 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.
- 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.
- PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD SHALL STEEL.
- 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.
- PULL BOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.
- 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.
- 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.
- 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.
- 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.
- 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.
- EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF "WHILE IN USE" COVERS.
- ALL FIRE ALARM NOTIFICATION APPLIANCES SHALL BE "RED."

ELECTRICAL LIGHTING NOTES

- FOR EXACT ELEVATION, LOCATION, QUANTITY AND SPECIFICATIONS OF LIGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ARCHITECT IN THE FIELD.
- LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.
- 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.
- PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
- CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.
- MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
- ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTOR.
- ALL LIGHT FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK CAPABLE OF FULL LIGHT OUTPUT FOR MINIMUM 90 MINUTES.
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELLS AND TIMECLOCKS WITH A MANUAL OVERRIDE SWITCHES LOCATED IN ELECTRICAL ROOMS.

ELECTRICAL DEMOLITION NOTES

- GENERAL
 - SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR NUMBER OF LIGHTING FIXTURES AND DEVICES TO BE REMOVED AND OR RELOCATED.
 - SEE HVAC DRAWINGS FOR HVAC EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.
 - SEE PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT TO BE REMOVED.
 - FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVED CONDUIT/WIRING BACK TO PANEL.
 - 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.
 - 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 CELINGS ARE EXPOSED, CONTRACTOR SHALL REINSTALL ALL EXISTING CABLING IN EMT CONDUIT AS CLOSE TO UNDERSIDE OF STRUCTURE AS POSSIBLE.
 - REMOVE ALL CLIPS AND HANGERS FROM CEILING SLAB AND REPAIR IF REQUIRED.
- EXISTING CONDUIT
 - THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION. REMOVE ALL WIRING BACK TO EXISTING PANELS.
- EXISTING ELECTRICAL PANELS
 - 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.
- EXISTING LIGHTING FIXTURES
 - 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.
 - 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.
 - REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.
 - DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL FOR EQUIPMENT TO BE REMOVED.
- EXISTING FIRE ALARM
 - 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.
 - NO ACTIVE SMOKE DETECTOR SHALL BE COVERED OR OTHERWISE RENDERED INEFFECTIVE FOR ITS INTENDED PURPOSE.
 - 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.
 - DURING DEMOLITION WORK CONTRACTOR IS TO PROTECT FIRE ALARM DEVICES AGAINST DUST AND OTHER PARTICLES.
- TEMPORARY LIGHTING AND POWER
 - FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS FOR THE PROJECT.
 - MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS AT ALL TIMES.
 - FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.
 - REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES.
 - 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.
 - TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

ELECTRICAL POWER NOTES

- 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.
- RECEPTACLES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH DEVICE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.
- CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.
- EXACT LOCATIONS FOR ALL MECHANICAL EQUIPMENT SHALL BE DETERMINED FROM THE MECHANICAL DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR IN FIELD.
- WHERE APPLICABLE, RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMET END FITTINGS FOR TELEPHONE/DATA & PROVIDE DRAG LINES FOR PULLING CABLE.
- 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.
- 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.
- MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO FURNITURE PARTITIONS SHALL BE PROVIDED WITH MEANS TO DISCONNECT POWER SIMULTANEOUSLY.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A BACKBOX AND 1" EMPTY CONDUIT WITH DRAG LINE FOR ALL IN-WALL WIRED KEYPADS AND TOUCHSCREENS.
- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AUDIO/VISUAL, TELECOM, AND SECURITY DRAWINGS AND CONTRACTORS FOR ANY ADDITIONAL BACKBOX, CONDUIT, AND POWER REQUIREMENTS.
- 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.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE TYPED/PANEL SCHEDULE DIRECTORY IN ANY PANEL UNDERGOING WORK AT PROJECT COMPLETION OF ALL CIRCUITS UTILIZED, IDENTIFYING THE LOADS THAT THEY ARE SERVING.
- 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.
- 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.

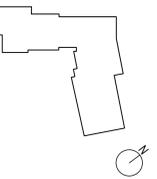
ELECTRICAL - IT/AV/SECURITY COORDINATION NOTES

- ELECTRICAL CONTRACTOR SHALL REFER TO IT/AV/SECURITY DRAWINGS AND COORDINATE WITH IT/AV/SECURITY CONSULTANT/VENDOR AND ARCHITECT/INTERIOR DESIGNER TO PROVIDE THE FOLLOWING:
 - SERVICE ENTRANCE CONDUITS AND CONDUIT BETWEEN MDF AND IDF ROOMS - TYPE, SIZE, QUANTITY, SPACING AND ROUTING.
 - BACKBOXES - TYPE, SIZE, HEIGHT, AND LOCATIONS.
 - EQUIPMENT RACKS - TERMINATION TYPE AND POWER REQUIREMENTS.
 - ELECTRICAL DEVICES - PUG TYPE, SIZE, HEIGHT, LOCATION AND FACEPLATE
- PROVIDE ALL CIRCUITS REQUIRED FOR HEAD END EQUIPMENT. COORDINATE EXACT RECEPTACLE TYPES WITH EQUIPMENT TO BE POWERED.

SEAL

BID SET 01/03/2023
ISSUE DATE

KEY PLAN



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

**ELECTRICAL
GENERAL NOTES**

WA E002

EASTCHESTER
UNION FREE
SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT
PHASE 2

WAVERLY ELEMENTARY
SCHOOL

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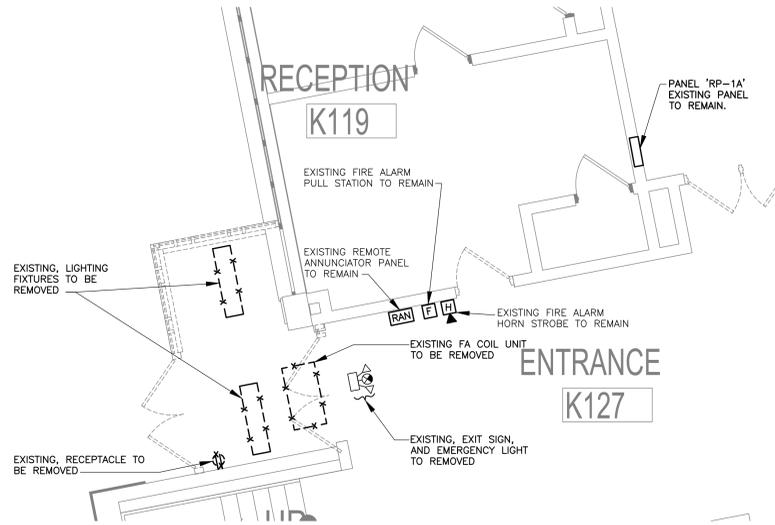
STRUCTURAL CONSULTANT
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SECURITY CONSULTANT
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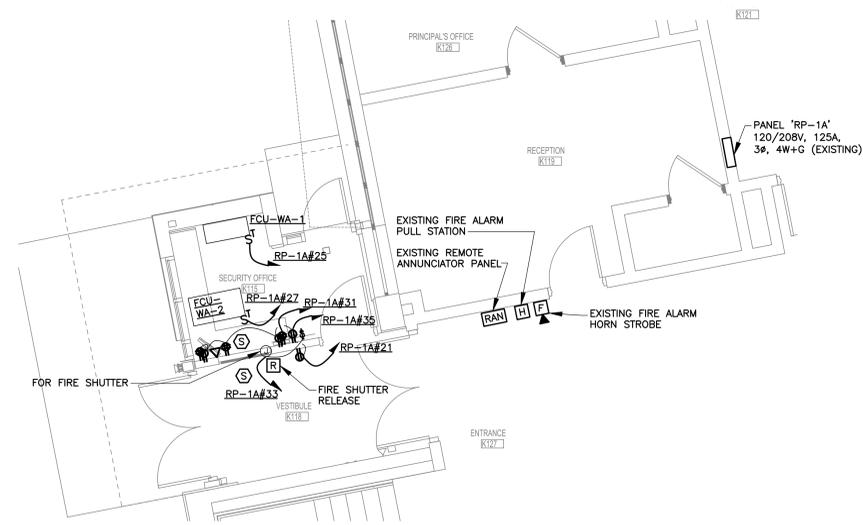
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FIRST FLOOR VESTIBULE DEMOLITION PARTIAL PLAN
1/4" = 1'-0"

ELECTRICAL DEMOLITION PLAN NOTES:

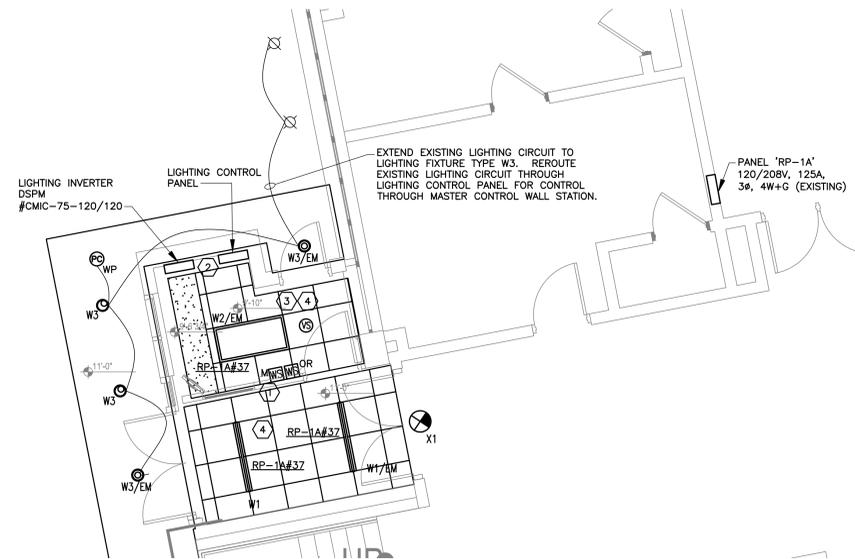
- WHERE INDICATED DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT WIRE AND CONDUIT BACK TO SOURCE. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT THAT IS EXISTING TO REMAIN THEN REMOVE WIRE AND CONDUIT BACK TO POINT OF SPLICE.
- REFER TO SECURITY DRAWINGS FOR SCOPE PERTAINING TO EXISTING SECURITY DEVICES, EQUIPMENT, AND ASSOCIATED WIRING AND RACEWAYS TO BE DEMOLISHED AND OR TEMPORARILY REMOVED AND RELOCATED.



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

ELECTRICAL POWER PLAN NOTES:

- ALL SECURITY OFFICE DEVICES SHALL CIRCUIT TO PANEL 'RP-1A'. CIRCUITS ARE SHOWN WITH "#" ADJACENT TO DEVICE ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED IN THE FIELD.
- 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.
- 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. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SECURITY DRAWINGS FOR ALL REQUIREMENTS.
- PROVIDE A 1 1/4"E.C. FROM I.T. DATA OUTLETS UP TO CEILING. TURN 90° AND STUB AND BUSH 6" INTO ACCESSIBLE.
- ALLOW FOR A SURFACE MOUNTED RACEWAY (WIREMOLD 2000 SERIES) FOR I.T. CABLING TO I.T. CLOSET. EXACT LOCATION OF CLOSET TO BE COORDINATED WITH END USER.
- REFER TO ARCHITECTURAL ELEVATIONS FOR RECEPTACLE LAYOUT AT SECURITY OFFICE.



FIRST FLOOR VESTIBULE LIGHTING PARTIAL PLAN
1/4" = 1'-0"

ELECTRICAL LIGHTING PLAN NOTES:

- REFER TO DRAWING E-001 FOR LIGHTING FIXTURE SCHEDULE.
- ALL LIGHTING FIXTURES SHALL CIRCUIT TO PANEL 'RP-1A'. CIRCUITS ARE SHOWN WITH "#" ADJACENT TO LIGHTING FIXTURE AND ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED IN THE FIELD.
- CORRIDORS/CIRCULATION/VESTIBULES - TIME SCHEDULE DURING OCCUPIED HOURS, AUTO ON/OFF VIA OCCUPANCY SENSOR AFTER HOURS. ELECTRICAL CONTRACTOR SHALL PROVIDE MASTER LIGHTING CONTROL STATION IN SECURITY OFFICE. NEW LIGHTING CONTROL PANEL AND MASTER LIGHTING CONTROL STATION SHALL CONTROL THE EXISTING ZONES CONTROLLED BY THE EXISTING REMOVED KEY SWITCHES IN THE ENTRY VESTIBULE.
- CIRCUIT EMERGENCY LIGHTS AND EXIT SIGNS TO NEAREST LIGHTING CIRCUIT AHEAD OF SWITCHING.
- LOCATE REMOTE EMERGENCY DRIVERS AND LIGHTING INVERTERS AT CEILING OF SECURITY OFFICE.
- PROVIDE AN UN-SWITCHED HOT LEG FOR EMERGENCY LIGHTING FIXTURES WITH INTEGRAL EMERGENCY BATTERY PACKS.
- WIRING FOR EXIT SIGNS SHALL BE AHEAD OF ANY SWITCHING.

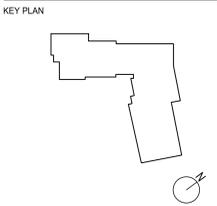
LIGHTING CONTROL NOTES:

- PER 2020 ECCCAYS, OCCUPANCY/VACANCY SENSORS SHALL AUTOMATICALLY TURN OFF LIGHTS 20 MINUTES AFTER SPACE IS UNOCCUPIED.
- CLASSROOMS, OFFICES - MANUAL ON, VACANCY SENSOR AUTO OFF. MANUAL OVERRIDE CONTROLS FOR ON/OFF, DIM UP, DIM DOWN.
- CORRIDORS/CIRCULATION/VESTIBULES - TIME SCHEDULE DURING OCCUPIED HOURS, AUTO ON/OFF VIA OCCUPANCY SENSOR AFTER HOURS. ELECTRICAL CONTRACTOR SHALL PROVIDE MASTER LIGHTING CONTROL STATION IN SECURITY OFFICE. NEW LIGHTING CONTROL PANEL AND MASTER LIGHTING CONTROL STATION SHALL CONTROL THE EXISTING ZONES CONTROLLED BY THE EXISTING REMOVED KEY SWITCHES IN THE ENTRY VESTIBULE.
- TOILET ROOMS - AUTO ON/OFF VIA OCCUPANCY SENSOR.
- EXTERIOR BUILDING-MOUNTED FIXTURES: DUSK TO DAWN CONTROL. MOTION SENSORS WHERE SPECIFIED.
- POST-TOP PARKING LOT FIXTURES: DUSK TO DAWN CONTROL.

KEY NOTES:

- 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
- LIGHTING CONTROL PANEL WITH EIGHT RELAYS. ACCUTY BRANDS #LHT #ARP-INTENCO-NLT-BSPR.
- PROVIDE LOW VOLTAGE WIRING FROM AREA VACANCY SENSORS AND WALL STATIONS BACK TO LIGHTING CONTROL PANEL.
- LIGHTING FIXTURE CIRCUIT WIRING SHALL WIRE THROUGH LIGHTING CONTROL PANEL.

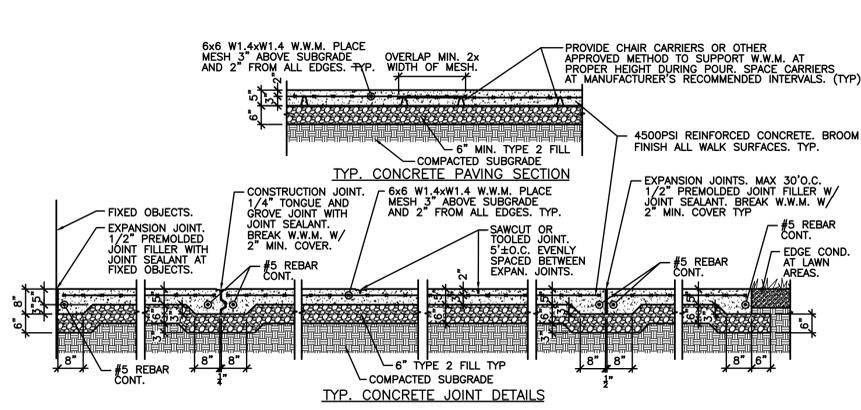
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BID SET	01/03/2023
ISSUE	DATE



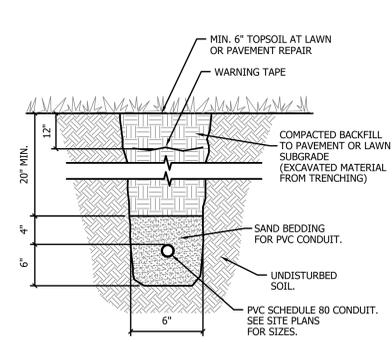
SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

**FIRST FLOOR
VESTIBULE
ELECTRICAL
PARTIAL PLANS**

WA E101
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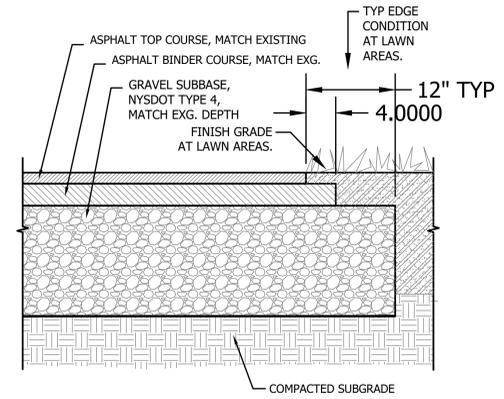


CONCRETE PAVING DETAIL
SCALE: N.T.S.

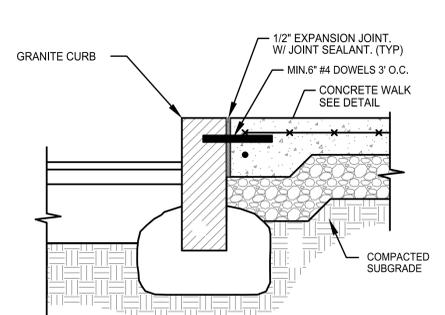


ELECTRICAL CONDUIT TRENCH DETAIL
SCALE: N.T.S.

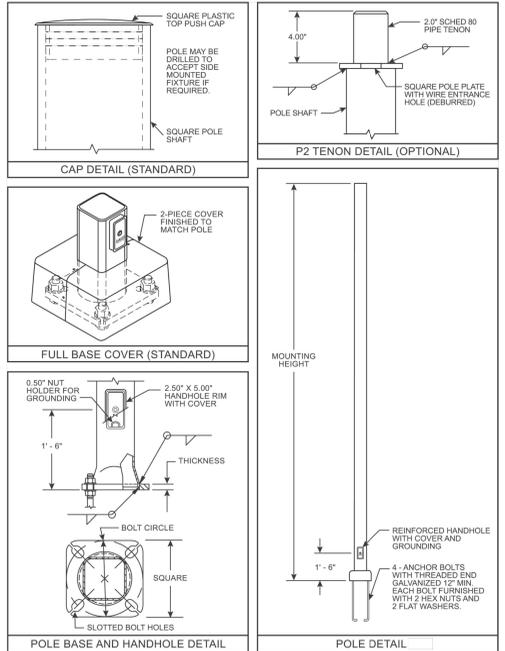
ALL ELECTRICAL RELATED EXCAVATION, COMPACTION, BACKFILL AND RESTORATION OF SURFACES IS BY ELECTRICAL PRIME CONTRACTOR



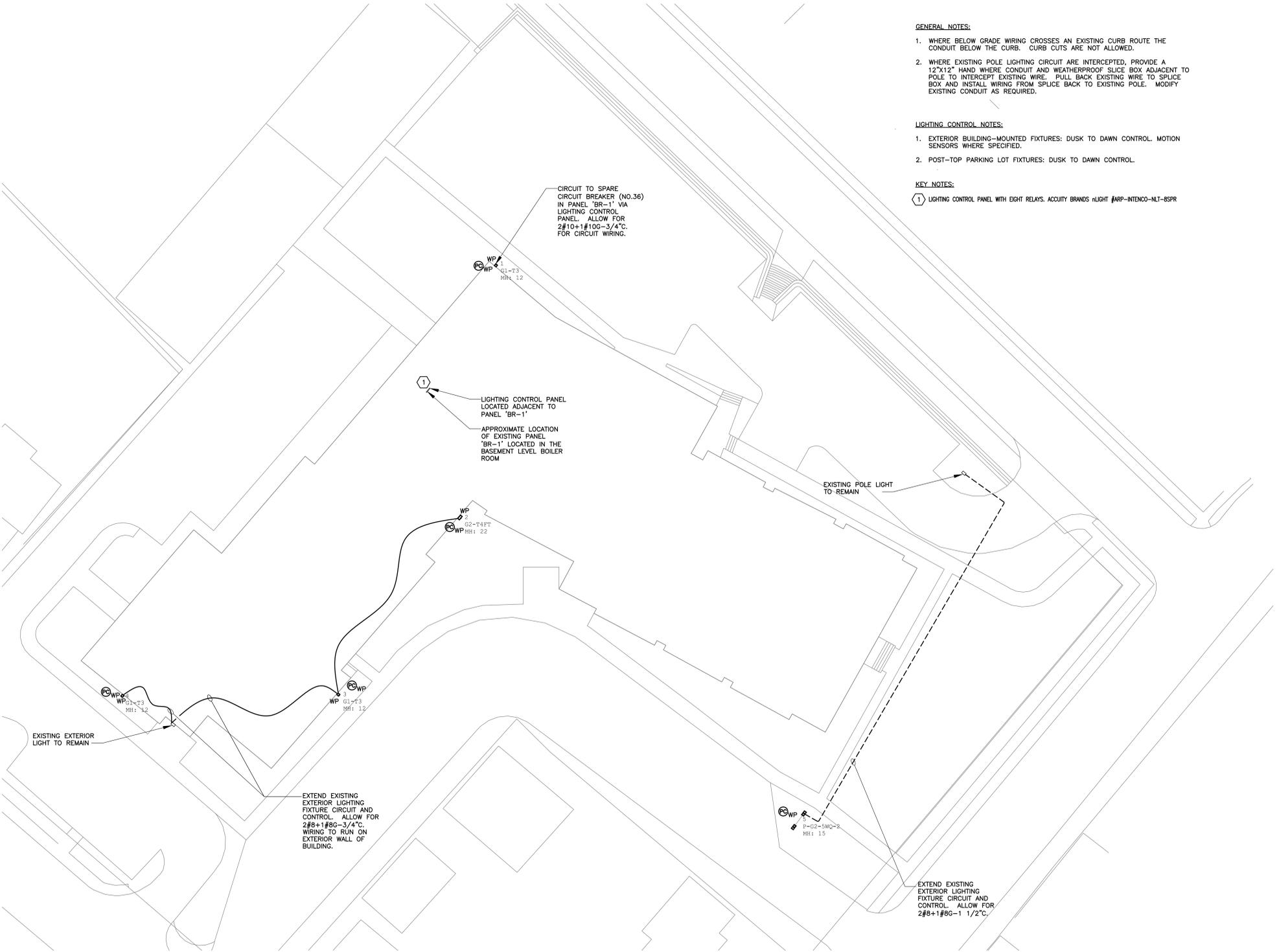
ASPHALT PAVEMENT REPAIR DETAIL
SCALE: N.T.S.



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



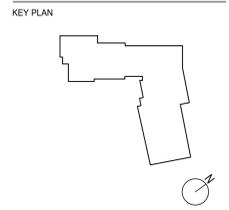
- LIGHTING POLE SPECIFICATIONS (LIGHT POLES PLUS SQUARE STRAIT STEEL WITH ANCHOR BASE AS STANDARD):
- POLE SHAFT - SQUARE STRAIT STEEL FABRICATED FROM HOT ROLLED WELDED STEEL TUBING OF ONE-PIECE CONSTRUCTION WITH A MINIMUM YIELD STRENGTH OF 55 KSI.
 - POLE TOP - A REMOVABLE TOP CAP WITH TOP AS DIRECTED 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.



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

- GENERAL NOTES:
- WHERE BELOW GRADE WIRING CROSSES AN EXISTING CURB ROUTE THE CONDUIT BELOW THE CURB. CURB CUTS ARE NOT ALLOWED.
 - 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:
- EXTERIOR BUILDING-MOUNTED FIXTURES: DUSK TO DAWN CONTROL. MOTION SENSORS WHERE SPECIFIED.
 - POST-TOP PARKING LOT FIXTURES: DUSK TO DAWN CONTROL.
- KEY NOTES:
- 1 LIGHTING CONTROL PANEL WITH EIGHT RELAYS. ACCUTY BRANDS #LIGHT #ARP-INTENCO-NLT-BSRP

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SED PROJECT NO.	66-03-01-03-002-011
MEMASI PROJECT NO.	102-2202

SITE LIGHTING PLAN

WA E201

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 2

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

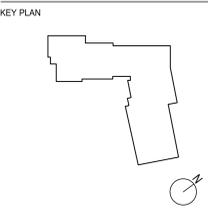
ELECTRICAL POWER PLAN NOTES:

- 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.

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

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BID SET	01/03/2023
ISSUE	DATE



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

SECURITY SECURITY EQUIPMENT POWER PLANS POWER PLANS

WA E301

**EASTCHESTER
UNION FREE
SCHOOL DISTRICT**

2022 CAPITAL BOND PROJECT
PHASE 2

WAVERLY ELEMENTARY
SCHOOL

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LIGHTING CONSULTANT

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PANEL DESIGNATION : **RP-1A**

VOLTAGE **208Y/120 V** NEUTRAL **100%** QUANTITY OF POLES **42**
PHASE **3 Ø** SCC RATING (SYM) **22 K.A.I.C.** MAIN CIRCUIT BREAKER **125 A**
WIRE **4 W + G** MAIN BUS **225 A**

EXISTING PANEL NEMA 1 ENCLOSURE GROUND BUS
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	1016			EXISTING	20A	2
3	20A	EXISTING		1016		EXISTING	20A	4
5	20A	EXISTING			1524	EXISTING	20A	6
7	20A	EXISTING	720			EXISTING	20A	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		SPARE	20A	16
17	20A	EXISTING			0	EXISTING	20A	18
19	20A	EXISTING	0			REPEATER CORR 121	20A	20
21	20A	ENTRY VESTIBULE		0		REPEATER CORR 143.SERV 132	20A	22
23	20A	EXISTING			0	EXISTING	20A	24
25	20A	FCU-WV-1	0			EXISTING	20A	26
27	20A	FCU-WV-2		0		EXISTING	20A	28
29	20A	EXISTING			0	EXISTING	20A	30
31	20A	SECURITY OFFICE	0			EXISTING	20A	32
33	20A	SECURITY OFFICE GATE		0		SPARE	20A	34
35	20A	SECURITY OFFICE			0	SPARE	20A	36
37	20A	ENTRY VESTIBULE/SECURITY OFFICE LIGHTING	0				20A	38
39	20A	EXISTING		0		SPARE	20A	40
41	20A	EXISTING			0		20A	42

PANEL DESIGNATION : **RP-2A**

VOLTAGE **208Y/120 V** NEUTRAL **100%** QUANTITY OF POLES **42**
PHASE **3 Ø** SCC RATING (SYM) **22 K.A.I.C.** MAIN CIRCUIT BREAKER **125 A**
WIRE **4 W + G** MAIN BUS **225 A**

EXISTING PANEL NEMA 1 ENCLOSURE GROUND BUS
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	20A	REPEATER LIB 213			0	EXISTING LOAD	20A	36
37	20A	SPARE	0				20A	38
39	20A	SPARE		0		SPARE	20A	40
41	20A	SPARE			0		20A	42

PANEL DESIGNATION : **101-1**

VOLTAGE **208Y/120 V** NEUTRAL **100%** QUANTITY OF POLES **30**
PHASE **3 Ø** SCC RATING (SYM) **22 K.A.I.C.** MAIN CIRCUIT BREAKER **200 A**
WIRE **4 W + G** MAIN BUS **200 A**

EXISTING PANEL NEMA 1 ENCLOSURE GROUND BUS
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	1016			EXISTING LOAD	20A	2
3	20A	EXISTING LOAD		1016		EXISTING LOAD	20A	4
5	20A	EXISTING LOAD			1524	EXISTING LOAD	20A	6
7	20A	EXISTING LOAD	720			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	20A	EXISTING LOAD			0	EXISTING LOAD	20A	36
37	20A	EXISTING LOAD			0	EXISTING LOAD	20A	38
29	20A	REPEATER CORRIDOR			0	SPARE	20A	30

PANEL DESIGNATION : **102-1**

VOLTAGE **208Y/120 V** NEUTRAL **100%** QUANTITY OF POLES **18**
PHASE **3 Ø** SCC RATING (SYM) **22 K.A.I.C.** MAIN CIRCUIT BREAKER **125 A**
WIRE **4 W + G** MAIN BUS **225 A**

EXISTING PANEL NEMA 1 ENCLOSURE GROUND BUS
FEED THROUGH LUGS

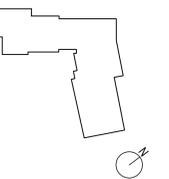
REMARKS : REPLACE INTERIORS AND COVER. MATCH CIRCUIT BREAKER RATINGS WITH EXISTING TO REMAIN CIRCUITS

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	SECURITY PANEL ACP	0			EXISTING LOAD	20A	2
3	30A	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	40A	EXISTING LOAD		0		EXISTING LOAD	20A	10
11	40A	EXISTING LOAD			0	EXISTING LOAD	20A	12
13	60A	EXISTING LOAD	0			EXISTING LOAD	20A	14
15		EXISTING LOAD		0		EXISTING LOAD	20A	16

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KEY PLAN



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

**ELECTRICAL
PANEL
SCHEDULES**

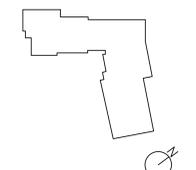
WA E601

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KEY PLAN



LEGEND AND ABBREVIATIONS

WA TY001

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
ATJAF	AMPERE RATING OF CIRCUIT, BREAKER TRIP/FRAME
AV	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
⌢	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
◻C	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
⌋	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
- 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.
 - 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.
 - REMOVE EXPOSED OR ACCESSIBLE CABLING TO EQUIPMENT OR OUTLETS TO BE REMOVED OR RELOCATED, UNLESS OTHERWISE INDICATED.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - TONE, TAG AND IDENTIFY ALL WIRING BEFORE DEMOLITION.

- ### DOOR WIRING NOTES
- 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.
 - ALL JUNCTION BOXES ARE TO BE PLACED ON SECURE SIDE OF DOORS.
 - SECURITY CONTRACTOR TO PROVIDE ALL CABLING AND COORDINATION WITH ELECTRICAL CONTRACTOR FOR PROPER CONDUIT INSTALLATION.
 - DOOR WIRING DETAILS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF SECURITY DEVICES MAY DIFFER.
 - 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
- 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
- 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.
 - REFER TO SECURITY SPECIFICATIONS 28 01 00.
 - 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.
 - PROVIDE FIRE STOPPING FOR ALL SLEEVE, CONDUIT AND CABLE TRAY PENETRATIONS THROUGH RATED PARTITIONS OR FLOORS IN ACCORDANCE WITH THE CODE AND SPECIFICATIONS.
 - WALL MOUNTED DEVICES SHALL BE WIRED VIA 1" RIGID METAL CONDUIT WITHIN WALL TO THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE SPECIFIED.
 - 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.
 - 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.
 - 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.
 - LABEL ALL CLOSETS, RACKS, CABINETS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH ANSITIA/EIA-606-A.
 - SECURITY DEVICES SHALL BE U.L. LISTED. CABLES FOR DEVICES SHALL BE WIRED TO THE SAME CLOSET THAT SERVES THE REST OF THE FLOOR.
 - MOUNTING HEIGHTS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.
 - 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.
 - ALL SHELTER LOCK COMPONENTS WILL BE PURCHASED BY GENERAL CONTRACTOR 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

NO.	DESCRIPTION
WA TY001	LEGEND AND ABBREVIATIONS
WA TYD101	FIRST AND SECOND FLOOR DEMO PLANS
WA TY101	BASEMENT AND FIRST FLOOR PLANS
WA TY102	SECOND FLOOR PLAN
WA TY201	ENLARGED PLANS
WA TY301	RISER DIAGRAMS
WA TY401	DETAILS



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

11



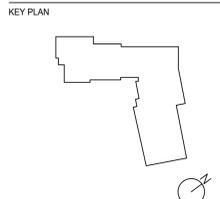
FIRST FLOOR DEMO PLAN
1/16" = 1'-0"

10

DEMOLITION NOTE:

1. REFER TO WSP ABATEMENT DRAWINGS BEFORE DEMOLITION OF SPEAKERS AND CABLING. COORDINATE DEMOLITION OF DEVICES AND CABLING WITH THE GENERAL CONTRACTOR.

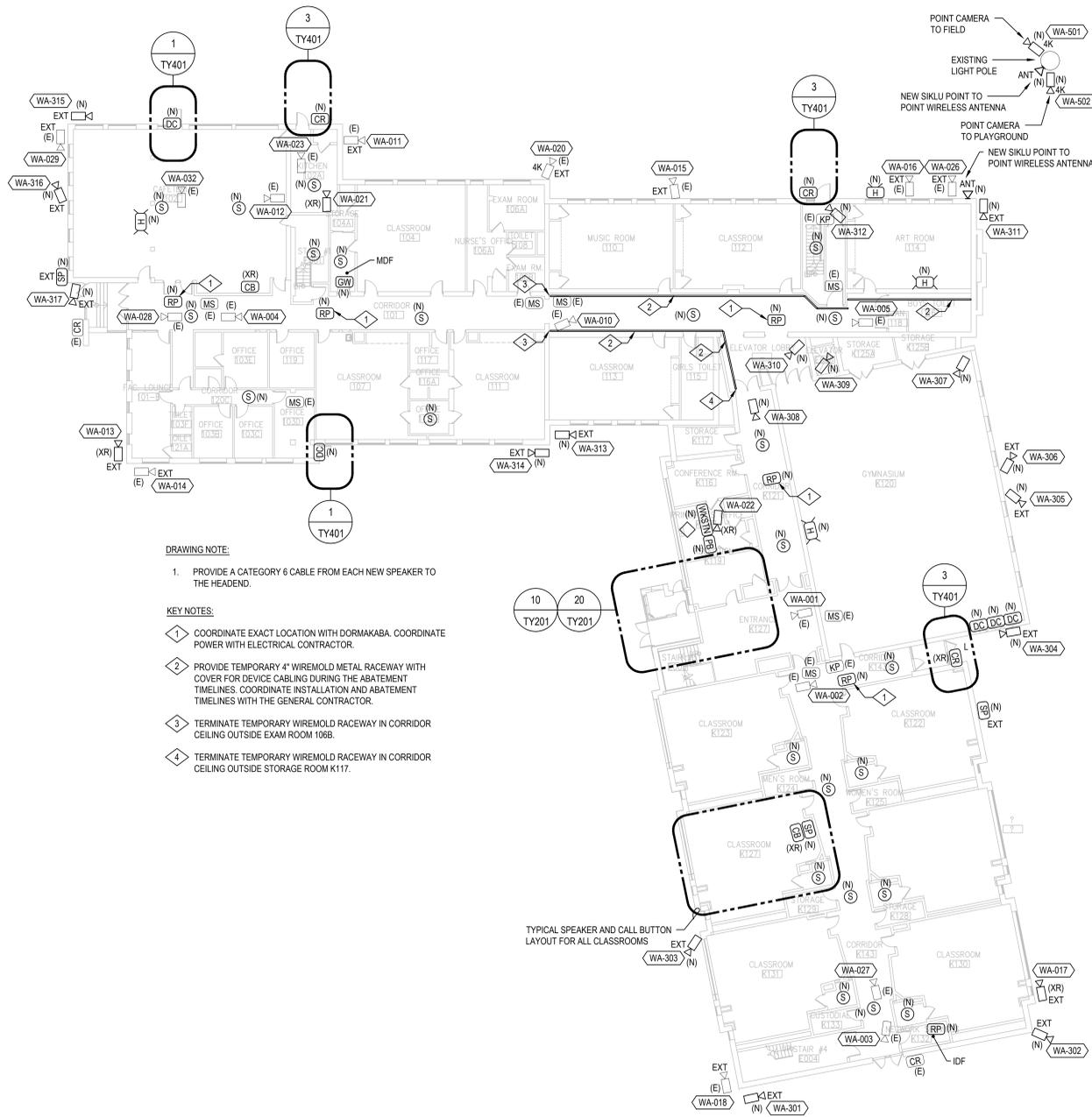
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BID SET	01/03/2023
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MEMASI PROJECT NO.	102-2202

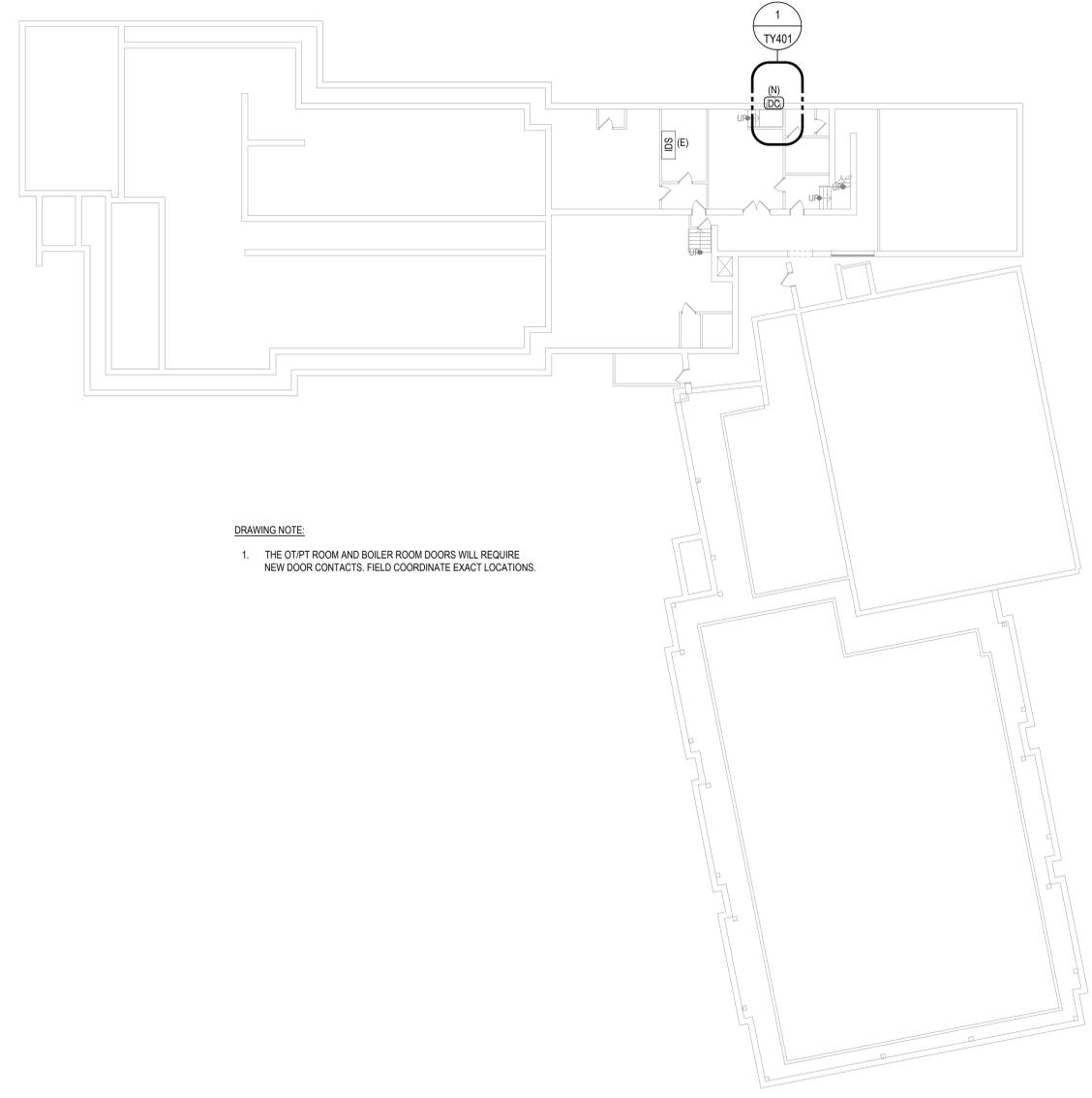
**FIRST AND
SECOND FLOOR
DEMO PLANS**

WA TYD101



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

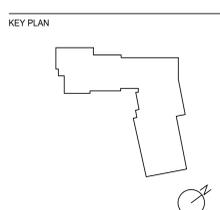
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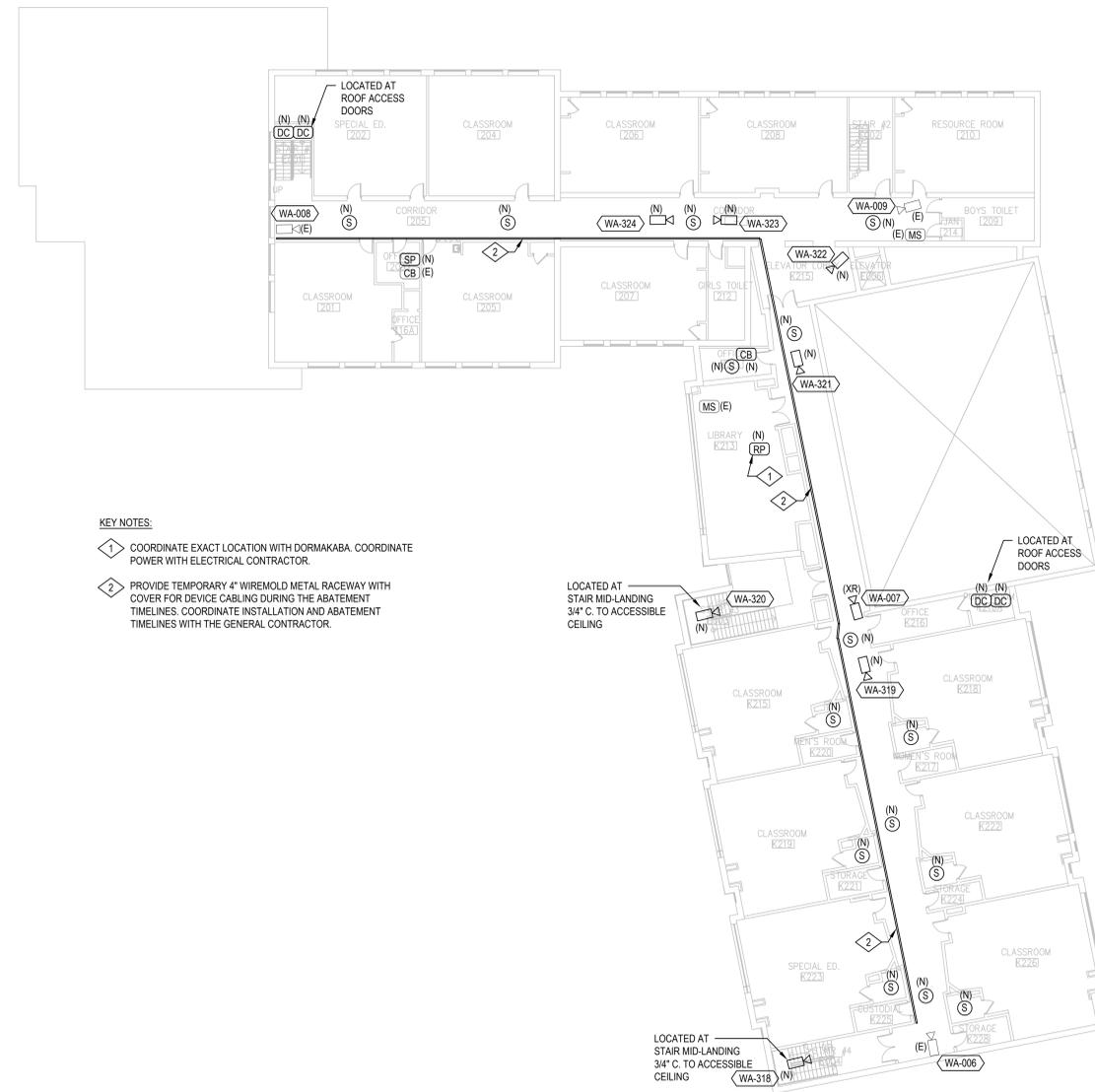


BASEMENT PLAN
1/16" = 1'-0"

10

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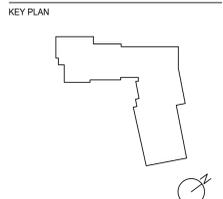
KEY NOTES:

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.

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

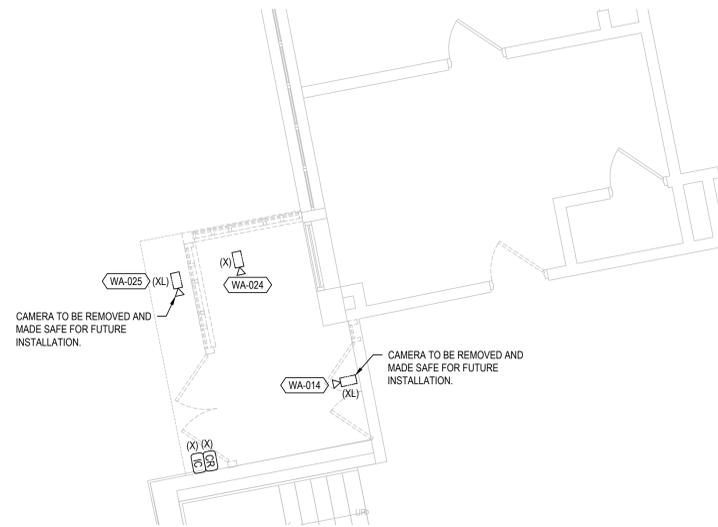
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SECOND FLOOR PLAN

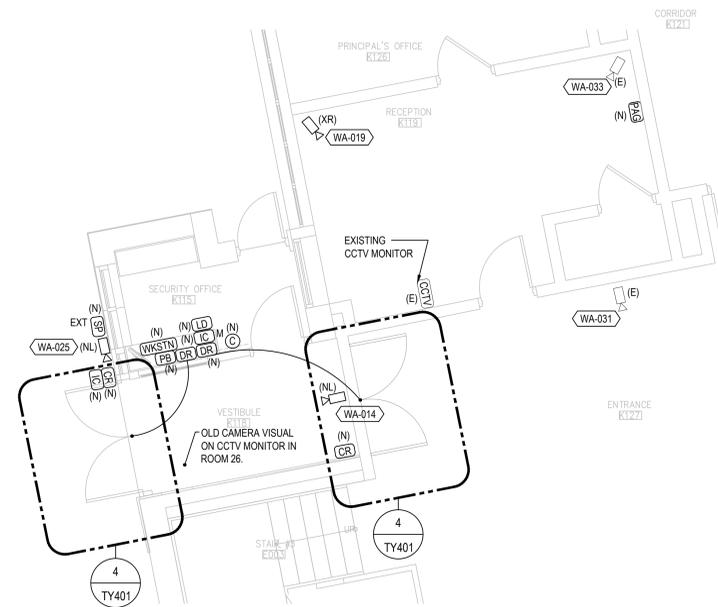
WA TY102



SECURITY VESTIBULE DEMO PLAN

1/4" = 1'-0"

10



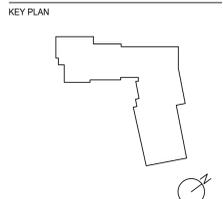
SECURITY VESTIBULE NEW PLAN

1/4" = 1'-0"

20

SEAL

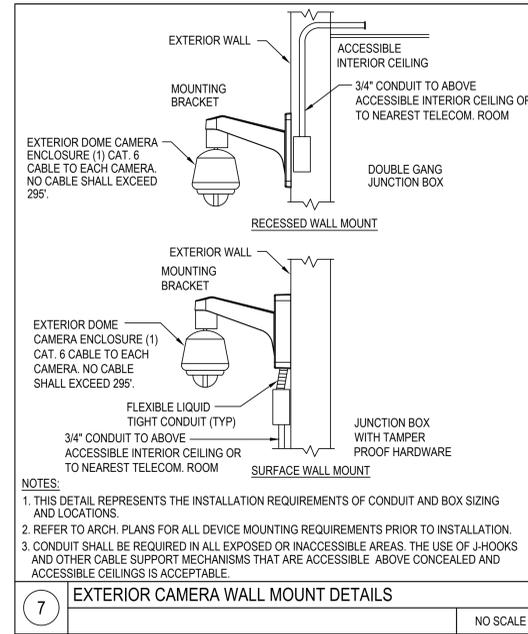
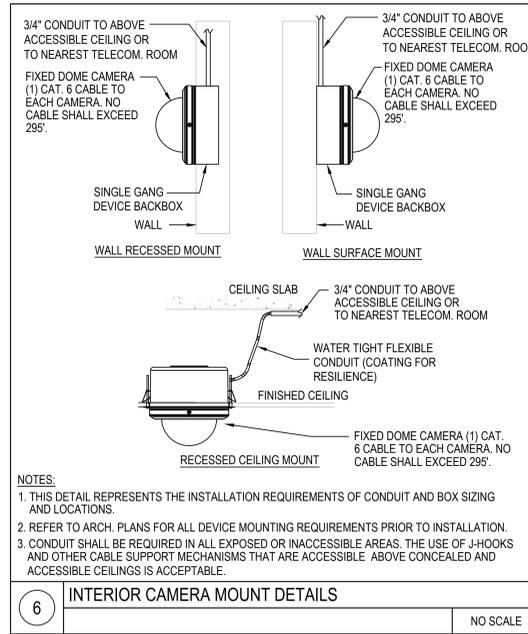
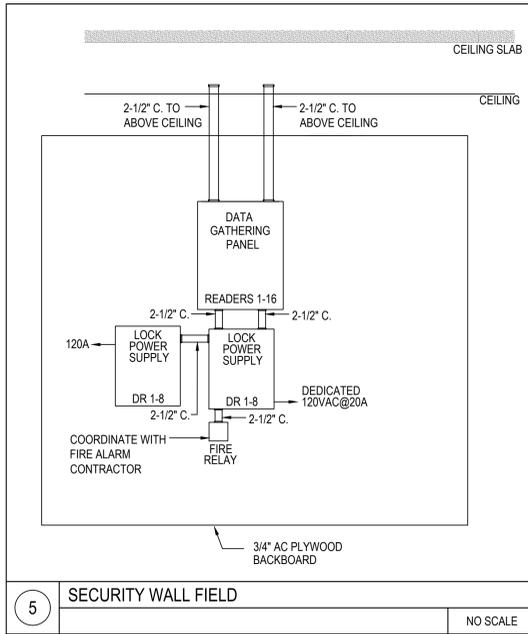
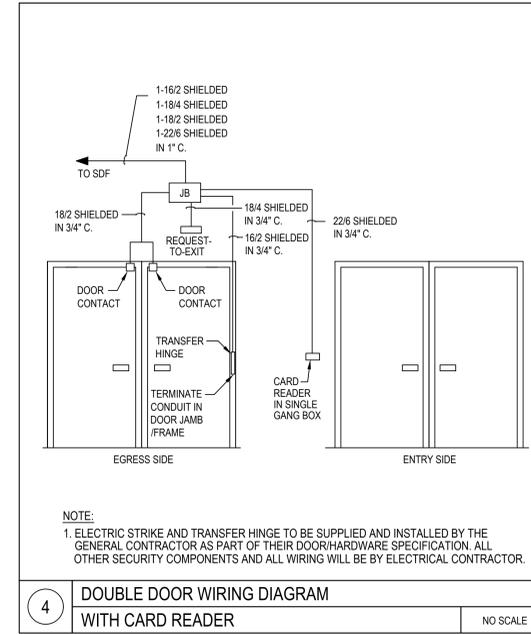
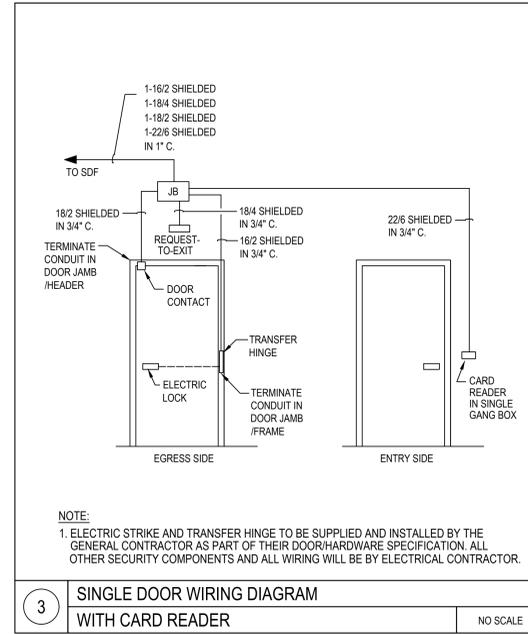
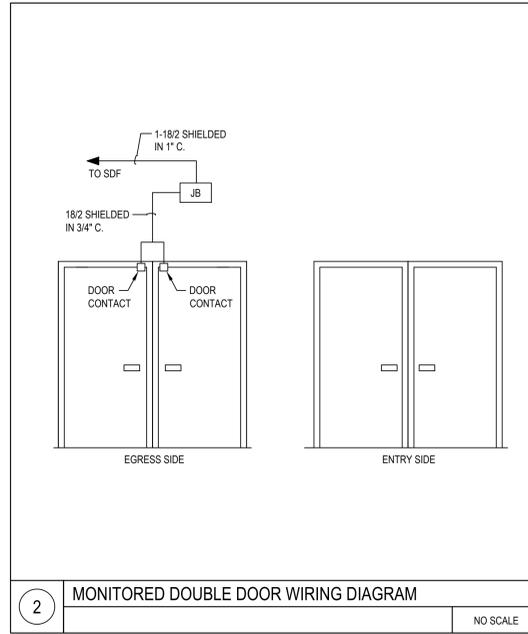
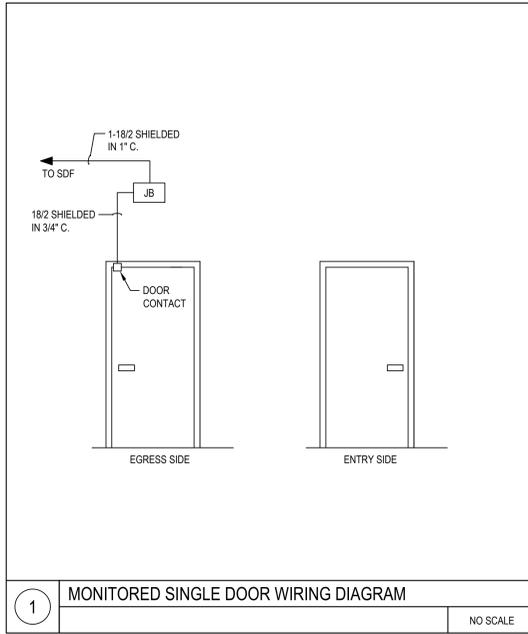
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ISSUE DATE



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MEMASI PROJECT NO. 102-2202

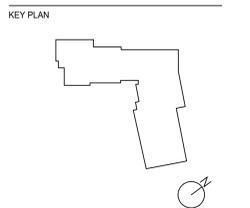
**ENLARGED
PLANS**

WA TY201



SEAL

BID SET 01/03/2023
ISSUE DATE



SED PROJECT NO. 66-03-01-03-0-002-011
MEMASI PROJECT NO. 102-2202

DETAILS

WA TY401

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