

# GREENBURGH CENTRAL SCHOOL DISTRICT

## CENTRAL OFFICE ADMINISTRATION

475 WEST HARTSDALE AVENUE, HARTSDDALE, NY 10530

# PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS

## AT

### HIGHVIEW ELEMENTARY SCHOOL

200 NORTH CENTRAL AVENUE  
HARTSDALE, NY 10530  
SED No.: 66-04-07-06-0-002-013

### LEE F. JACKSON ELEMENTARY SCHOOL

2 SARATOGA ROAD  
WHITE PLAINS, NY 10607  
SED No.: 66-04-07-06-0-006-011

### RICHARD J. BAILEY ELEMENTARY SCHOOL

33 WEST HILLSIDE AVENUE,  
WHITE PLAINS, NY 10607  
SED No.: 66-04-07-06-0-005-012

### WOODLANDS MIDDLE/ HIGH SCHOOL

475 WEST HARTSDALE AVENUE  
HARTSDALE, NY 10530  
SED No.: 66-04-07-06-0-007-022

### EARLY CHILDHOOD PROGRAM

475 WEST HARTSDALE AVENUE  
HARTSDALE, NY 10530  
SED No.: 66-04-07-06-0-011-008

#### LIST of DRAWINGS

##### GENERAL

T0.01 TITLE SHEET

##### HIGHVIEW ELEMENTARY SCHOOL - 'A' BBS#: 21-288

##### ARCHITECTURAL

A3.01 ROOF DEMOLITION AND PROPOSED PLANS  
A3.02 ROOF DETAILS  
A3.03 ROOF DETAILS  
A8.01 DEMOLITION AND PROPOSED WINDOW AND INFILL PANEL REPLACEMENTS

##### MECHANICAL

M0.01 MECHANICAL GENERAL NOTES AND SYMBOLS  
M1.01 MECHANICAL LOWER FLOOR PLAN

##### WOODLANDS MIDDLE/ HIGH SCHOOL - 'D' BBS#: 21-291

##### ARCHITECTURAL

A8.01 DOOR SCHEDULE  
A8.02 DEMOLITION AND PROPOSED WINDOW REPLACEMENTS

##### MECHANICAL

M0.01 MECHANICAL GENERAL NOTES AND SYMBOLS  
M1.01 MECHANICAL SECOND AND THIRD FLOOR PLAN - AREA 'A'  
M1.02 MECHANICAL FIRST FLOOR PLAN - AREA 'B'  
M1.03 MECHANICAL GROUND AND SECOND FLOOR PLAN - AREA 'C'  
M1.04 MECHANICAL FIRST FLOOR PLAN - AREA 'D'  
M1.05 MECHANICAL FIRST FLOOR PLAN - AREA 'E'

##### ELECTRICAL

E1.01 ELECTRICAL NOTES AND PLANS  
E1.02 ELECTRICAL FIRST FLOOR PLAN

##### LEE F. JACKSON ELEMENTARY SCHOOL - 'B' BBS#: 21-289

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M0.01 MECHANICAL GENERAL NOTES AND SYMBOLS

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E1.01 ELECTRICAL NOTES AND PLANS

##### EARLY CHILDHOOD PROGRAM - 'E' BBS#: 21-292

##### ARCHITECTURAL

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A2.01 DEMOLITION AND PROPOSED TOILET ROOM PLANS  
A8.01 DOOR SCHEDULE

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M1.01 MECHANICAL DEMOLITION FIRST FLOOR PLAN  
M1.02 MECHANICAL FIRST FLOOR AND BOILER ROOM NEW PLAN  
M6.01 MECHANICAL SCHEDULES  
M6.02 MECHANICAL DETAILS

##### PLUMBING

P0.01 PLUMBING GENERAL NOTES AND KEY PLAN  
P1.01 PLUMBING DEMOLITION AND NEW PART PLANS AND DETAILS

##### ELECTRICAL

E0.01 ELECTRICAL NOTES AND LEGENDS  
E4.01 ELECTRICAL PLANS

##### RICHARD J. BAILEY ELEMENTARY SCHOOL - 'C' BBS#: 21-290

##### ARCHITECTURAL

A3.01 PROPOSED MASONRY RECONSTRUCTION  
A2.02 PROPOSED ROOF PLAN  
A8.01 DOOR SCHEDULE  
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##### MECHANICAL

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M1.02 MECHANICAL BASEMENT NEW PLAN  
M2.01 MECHANICAL FIRST FLOOR DEMOLITION PLAN  
M2.02 MECHANICAL FIRST FLOOR NEW PLAN  
M3.01 MECHANICAL SECOND FLOOR DEMOLITION PLAN  
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M4.01 MECHANICAL DEMOLITION AND NEW ATTIC AND ROOF PLAN  
M5.01 MECHANICAL ROOF PLAN  
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##### ELECTRICAL

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E1.02 SECOND FLOOR DEMOLITION PLAN  
E4.01 BASEMENT AND FIRST FLOOR POWER PLANS  
E4.02 SECOND FLOOR AND ROOF POWER PLANS, RISER AND PANEL SCHEDULE

## LOCATION MAP

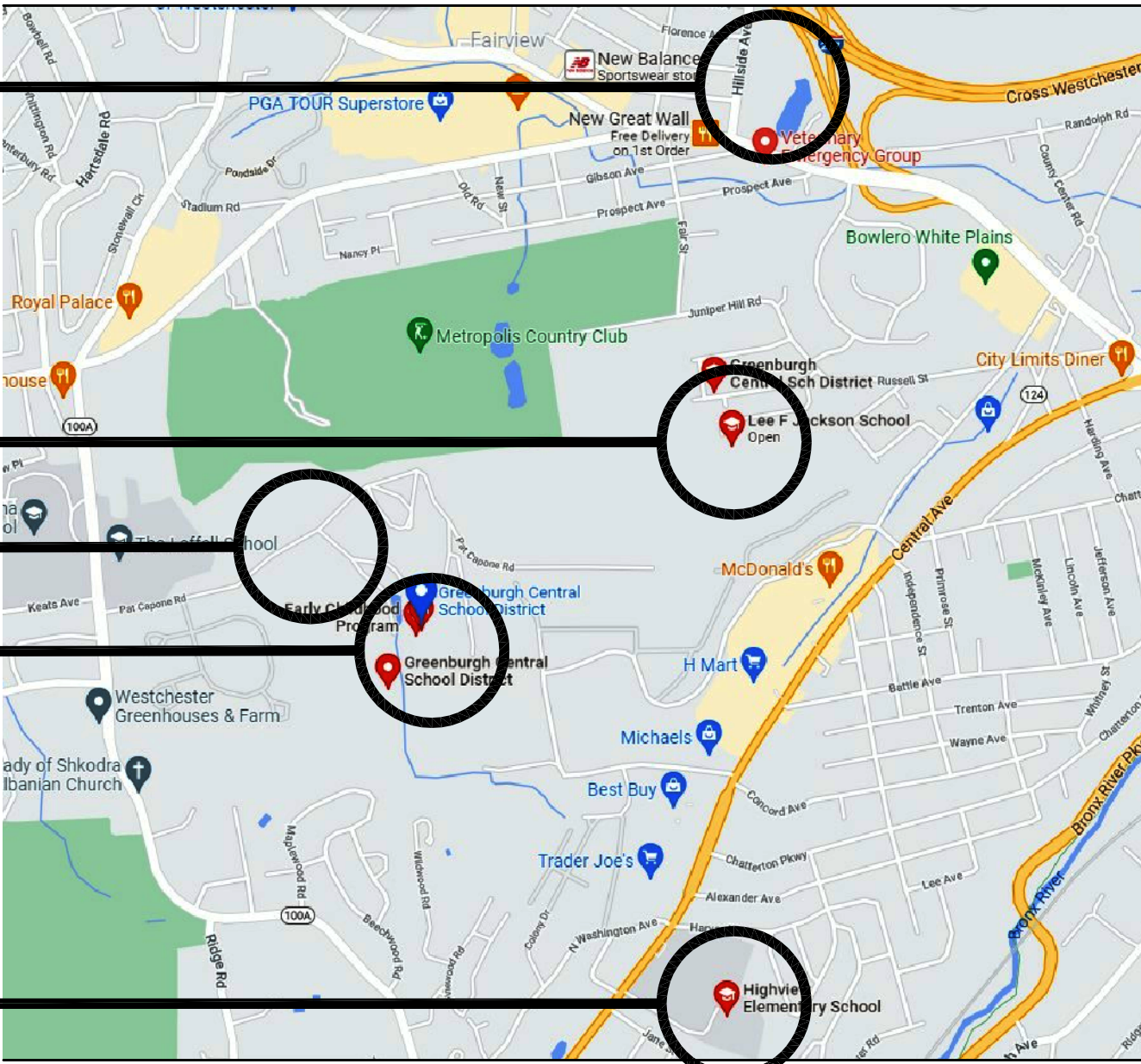
RICHARD J. BAILEY ES

LEE F. JACKSON ES

EARLY CHILDHOOD PROGRAM

WOODLANDS MS/HS

HIGHVIEW ES



MAP DATA © GOOGLE

# BBS ARCHITECTS LANDSCAPE ARCHITECTS ENGINEERS

244 EAST MAIN STREET | PATCHOGUE | NEW YORK 11772 | T. 631.475.0349 | F. 631.475.0361  
187 WOLF ROAD, SUITE 205 | ALBANY | NEW YORK 12205 | T. 518.621.7650 | F. 518.621.7655

www.BBSARCHITECTURE.COM

ARCHITECTS CERTIFICATION  
THE UNDERSIGNED CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, INFORMATION,  
AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH  
APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION  
AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION  
CODE, AND THE CONSTRUCTION STANDARDS OF THE EDUCATION DEPARTMENT.

LAWRENCE SALVESEN, A.I.A. LIC. No. 020623

BBS FILE No. 21-288 - 21-292  
ISSUED FOR BID: MAY 27, 2022

2020 ENERGY CONSERVATION CONSTRUCTION CODE of NEW YORK STATE DESIGN CRITERIA				
2020 E.C.C.C. of N.Y. STATE	CLIMATE ZONE	INSULATION COMPONENT	R-VALUE	REFERENCE
SECTION C301 CLIMATE ZONES	ZONE 4A (WESTCHESTER COUNTY)			TABLE C301.1 NEW YORK STATE CLIMATE ZONES BY COUNTY
SECTION C402 BUILDING ENVELOPE REQUIREMENTS	ZONE 4	ROOF - INSULATION ENTIRELY ABOVE ROOF DECK	R-30a	TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD

HAZARDOUS MATERIALS NOTES	
1.	ALL CONTRACTORS SHALL BE ADVISED THAT THE SCHOOL DISTRICT HAS SOLICITED AN INDEPENDENT TESTING COMPANY TO INSPECT AND TEST ALL AREAS OF THE EXISTING BUILDING WHICH ARE SCHEDULED TO BE DISTURBED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS.
2.	ALL INSPECTIONS AND TESTING HAVE BEEN PERFORMED BY: ENVIROSCIENCE CONSULTANTS 37 MOORE AVENUE FIRST FLOOR MT. KISCO, NY 10549
3.	RESULTS OF THE INSPECTIONS AND TESTING INDICATE THAT THE EXISTING BUILDING HAS TESTED NEGATIVE FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS. REFER TO PRE CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT ASBESTOS, LEAD OR PCB CONTAINING MATERIALS (PROJECT MANUAL, INFORMATION AVAILABLE TO BIDDERS) FOR ADDITIONAL INFORMATION.
4.	ALL DISTURBANCES, REMOVAL OR DEMOLITION WORK TO THESE IDENTIFIED AREAS MUST BE PERFORMED IN CONFORMANCE WITH THE GUIDELINES AS OUTLINED IN THE PROJECT MANUAL AND APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS.
5.	ALL LEAD, ASBESTOS AND PCB REMOVAL IS BY THE G.C. THE CONTRACTOR SHALL PERFORM A SITE INSPECTION PRIOR TO SUBMITTING A BID TO REVIEW AND QUANTIFY ALL ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS TO BE REMOVED OR AFFECTED BY THE PROPOSED SCOPE OF WORK.

WIND DESIGN DATA		
DESIGN CRITERIA		REFERENCE
ULTIMATE WIND SPEED	130 MPH	ASCE 7-16 FIG. 26.5-1B
RISK FACTOR	III	ASCE 7-16 TABLE 1.5-1
WIND EXPOSURE	CATEGORY B	ASCE 7-16 SECTION 26.7.3
INTERNAL PRESSURE COEFFICIENT	GCPH +/- 0.18 ENCLOSED	ASCE 7-16 TABLE 26.11-1
COMPONENTS AND CLADDING	ZONE 1 = +20/-31 PSF 2 = +20/-51 PSF 3 = +20/-77 PSF	ASCE 7-16 FIGURE 30.5-1 EQUATION 30.5-1

WOOD BLOCKING & PERIMETER EDGE NOTES	
1.	CONTRACTOR IS TO BE ADVISED THAT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXTENT OF WOOD BLOCKING REQUIRED FOR ALL PERIMETER GRAVEL STOPS, MECHANICAL CURBS, EXPANSION JOINTS, ETC. IN ACCORDANCE WITH THE TAPERED INSULATION LAYOUTS INCLUDED IN THESE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS.
2.	THE DETAILS SHOWN MAY NOT DEPICT THE REQUIRED HEIGHT OF BLOCKING REQUIRED AND REPRESENT THE INTENT OF THE DETAIL AT THIS CONDITION.
3.	THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE HEIGHT OF THE TOP OF GRAVEL STOP AT EACH ROOF ELEVATION AND MAKE THE NECESSARY MODIFICATIONS AT THE EDGE CONDITIONS TO MEET THE TAPERED ELEVATION HEIGHTS IN ACCORDANCE WITH THE ROOF MANUFACTURERS REQUIREMENTS.
4.	THE CONTRACTOR IS RESPONSIBLE TO MODIFY THE HEIGHTS OF ALL BREAK METAL FASCIAS & FASCIA EXTENDERS AS REQUIRED TO CONFORM TO THE INTENT OF THE DETAILS SHOWN AND THE CONDITIONS AS THEY CURRENTLY EXIST.
5.	PROVIDE APPROPRIATE BLOCKING FASTENERS AS REQ'D. TO SECURE BLOCKING TO EXIST. ROOF DECK IN ACCORDANCE W/ MANUF. ROOF SYSTEM REQUIREMENTS FOR COMPLIANCE W/ ASCE 7-10. CONTRACTOR SHALL PROVIDE N.Y.S. STRUCTURAL ENGINEERS CERTIFICATION FOR ANCHORING METHOD IN ACCORDANCE WITH ROOFING SPECIFICATIONS.

ROOF DEMOLITION NOTES	
1.	EXISTING MECHANICAL EQUIPMENT FANS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE REMOVAL AND INSTALLATION OF EXISTING OR NEW ROOFING. THE CONTRACTOR SHALL HIRE A LICENSED ELECTRICIAN TO DISCONNECT AND RECONNECT POWER TO FANS.
2.	EXISTING HVAC ROOF TOP EQUIPMENT SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE REMOVAL AND INSTALLATION OF NEW OR EXISTING ROOFING. THE CONTRACTOR SHALL HIRE A LICENSED ELECTRICIAN TO DISCONNECT AND RECONNECT POWER TO RTUS. THE CONTRACTOR SHALL HIRE A LICENSED PLUMBER TO DISCONNECT AND RECONNECT GAS SERVICE TO RTUS WHERE APPLICABLE.
3.	CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ROOF HATCHES WITH NEW AS SPECIFIED. SIZE TO MATCH EXISTING ONE REMOVED.
4.	CONTRACTOR SHALL REMOVE EXISTING ROOFING SYSTEMS AS INDICATED FULL DEPTH AND PREPARE DECK TO RECEIVE NEW ROOFING SYSTEM.
5.	CONTRACTOR SHALL REMOVE EXISTING ROOF DRAIN DOME STRAINERS FLASHING CLAMP RINGS AND INSTALL NEW C.I. OF THE SAME. CONTRACTOR TO FURNISH & INSTALL NEW 3" CAST IRON STATIC EXTENSION RINGS. THE CONTRACTOR SHALL SNAKE OUT EXISTING DRAIN LINES TO ENSURE PROPER FUNCTION OF DRAINAGE, TYPICAL AT ALL ROOF DRAIN LOCATIONS.
6.	ALL ROOF AREAS MARKED "NOT IN CONTRACT" SHALL BE PROTECTED DURING ROOF REPLACEMENT SCOPE OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO REPAIR AND RESTORE THESE AREAS IF ANY DAMAGE HAS BEEN CAUSED AT NO ADDITIONAL COST TO THE OWNER.

ROOF SYMBOL LEGEND	
	EXISTING ROOFTOP AIR HANDLER LOCATIONS ON EQUIPMENT RAILS
	EXISTING A/C CONDENSER LOCATION ON EQUIPMENT RAILS
	EXISTING ROOF TOP EXHAUST FAN LOCATION
	EXISTING ROOF DRAIN LOCATIONS
	EXISTING PENETRATION POCKET THRU ROOF LOCATIONS TO REMAIN
	EXISTING PLUMBING REMN THRU ROOF LOCATIONS TO REMAIN
	ROOF CORE LOCATIONS. REFER TO EXISTING ROOF COMPOSITION NOTES FOR ADDITIONAL INFO.
	LOW POINT OF TAPERED INSULATION
	HIGH POINT OF TAPERED INSULATION @ 1/8" PER FOOT - U.O.N.
	INDICATES EXIST'G ROOF EXPANSION JOINT LOCATION. G.C. TO REMOVE & INSTALL NEW AS DETAILED
	SHEET METAL GOOSE NECK VENT STACK
	INDICATES NEW ROOF WALKWAY PADS
	INDICATES ROOF AREA NOT IN CONTRACT
	MECHANICAL GRAVITY VENTS
	EXISTING COPING MOUNTED SECURITY LIGHT, REMOVE AND REINSTALL
	EXISTING SIGHTLIGHTS TO BE REMOVED AND REPLACED WITH NEW. SEE DETAILS

EXISTING ROOF COMPOSITION CORES	
** ALL CORES ARE FROM THE TOP DOWN **	
ROOF CORE SAMPLE #1, ROOF B AT FLASHING TOTAL THICKNESS ABOVE DECK: 4 INCHES	
• GRAVEL BALLAST SURFACE • CAP SHEET - ASPHALT • 1/2" PERLITE BOARD • RIGID INSULATION BOARD, APPROX. 3-1/2" TOTAL • METAL DECK STRUCTURE	
ROOF CORE SAMPLE #2, ROOF B AT FIELD TOTAL THICKNESS ABOVE DECK: 3-1/2 INCHES	
• GRAVEL BALLAST SURFACE • CAP SHEET - ASPHALT • 1/2" PERLITE BOARD • RIGID INSULATION BOARD, APPROX. 3" TOTAL • METAL DECK STRUCTURE	
ROOF CORE SAMPLE #3, ROOF A AT FIELD TOTAL THICKNESS ABOVE DECK: 3-1/2 INCHES	
• GRAVEL BALLAST SURFACE • CAP SHEET - ASPHALT • 1/2" PERLITE BOARD • RIGID INSULATION BOARD, APPROX. 3" TOTAL • VAPOR BARRIER • METAL DECK STRUCTURE	
ROOF CORE SAMPLE #4, ROOF A AT FLASHING TOTAL THICKNESS ABOVE DECK: 3-1/2 INCHES	
• GRAVEL BALLAST SURFACE • CAP SHEET - ASPHALT • 1/2" PERLITE BOARD • RIGID INSULATION BOARD, APPROX. 3" TOTAL • VAPOR BARRIER • METAL DECK STRUCTURE	
ROOF CORE SAMPLE #5, ROOF OVER SMALL CANOPY TOTAL THICKNESS ABOVE DECK: 1/2 INCH	
• GRAVEL BALLAST SURFACE • CAP SHEET - ASPHALT • 1/2" PERLITE BOARD • RIGID INSULATION BOARD, APPROX. 2" TOTAL • VAPOR BARRIER • METAL DECK STRUCTURE	
ROOF CORE SAMPLE #6, ROOF A AT ROOF DRAIN TOTAL THICKNESS ABOVE DECK: 2-1/2 INCHES	
• GRAVEL BALLAST SURFACE • CAP SHEET - ASPHALT • 1/2" PERLITE BOARD • RIGID INSULATION BOARD, APPROX. 2" TOTAL • VAPOR BARRIER • METAL DECK STRUCTURE	

TAPERED INSULATION NOTES	
1.	G.C. SHALL PROVIDE A TAPERED INSULATION PLAN FOR ALL ROOF AREAS IN CONTRACT.
2.	G.C. SHALL FIELD VERIFY ROOF DIMENSIONS & ROOF DRAIN LOCATIONS
3.	TAPERED INSULATION LAYOUT SHALL CONFORM TO LATEST REQUIREMENTS OF THE N.Y. STATE EMERGENCY CODE, MINIMUM PITCH OF 1/8" PER FOOT.
4.	TAPERED INSULATION PLAN SHALL SHOW ALL ROOF PITCHES & CRICKETS AS REQUIRED TO FACILITATE POSITIVE DRAINAGE.
5.	ROOF INSULATION TO BE A MIN. THICKNESS OF 5.2" AND R-30 (CONTINUOUS INSULATION) AS PER THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE

PRE-ABATEMENT WORK NOTES:	
1. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL ESTABLISH LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.	
POST-ABATEMENT WORK NOTES:	
1. THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.	
2. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.	

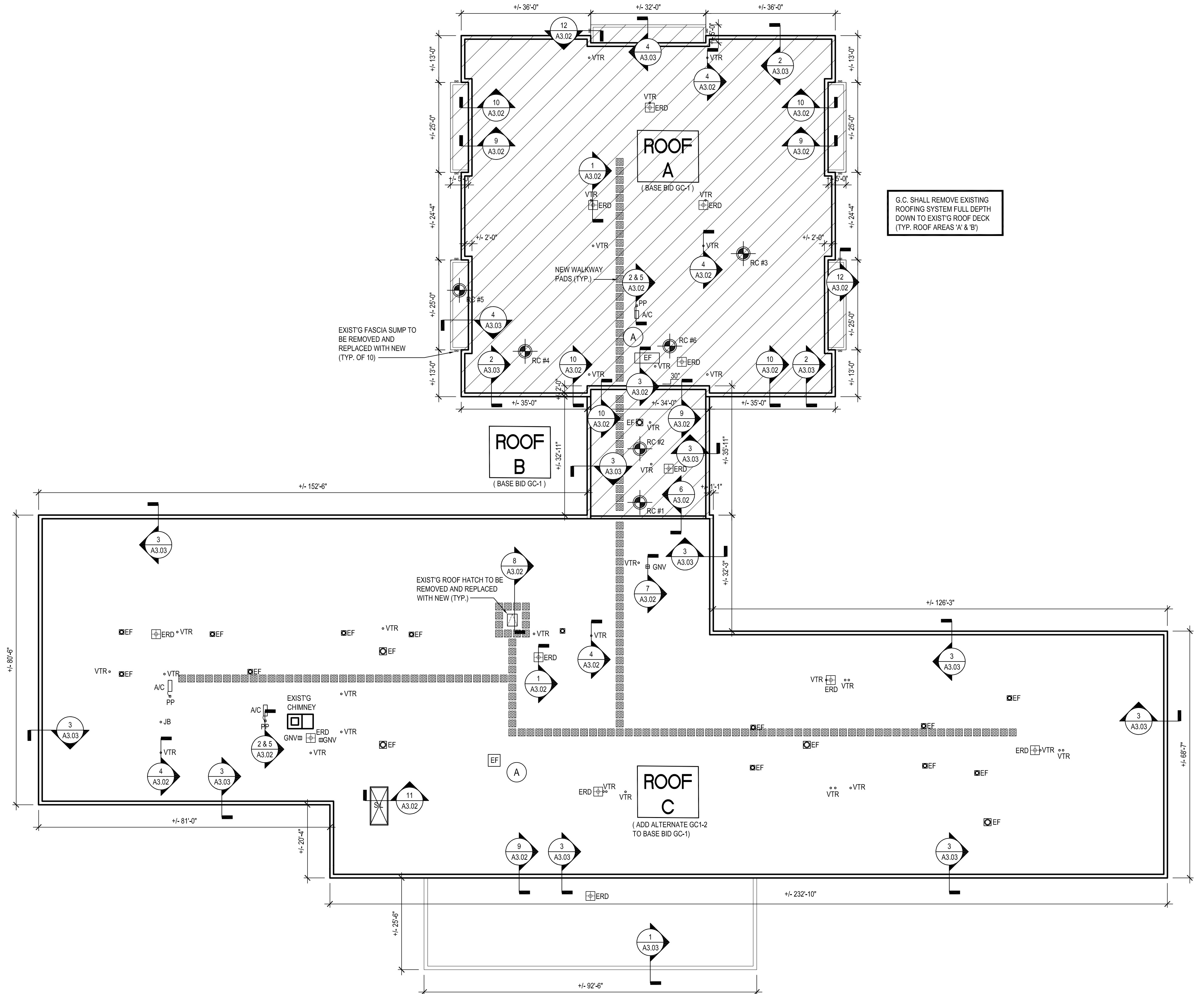
ABATEMENT NOTES	
	REMOVE FROM THE AREAS INDICATED; ALL ASSUMED ASBESTOS CONTAINING ELECTRICAL WIRE INSULATION, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN FAN ROOM AND INTERIOR OF AIR HANDLERS DUCT WORK SYSTEMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
NOTES: REFER TO ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIROSCIENCE FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL, REQUIRED.	

LEAD CONTAINING NOTES	
	CONTRACTOR SHALL NOTE THAT LEAD PAINT EXISTS ON THE EXISTING LOWER LEVEL - LOBBY/ GYMNASIUM METAL DOOR FRAMES, METAL GLASS PARTITIONS, AND METAL - BEAMS (GREEN WHITE). REFER TO SPECIFICATIONS FOR PROTOCOL ON REMOVALS AND IMPACT ON NEW WORK SCOPE.
NOTES: MATERIALS IDENTIFIED ABOVE SHOULD BE CONSIDERED LEAD CONTAINING IN THE AREAS INDICATED AS WELL AS WHERE EVER THEY EXIST THROUGHOUT THE STRUCTURE. DESIGNATED MATERIALS INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO PRE CONSTRUCTION LEAD MATERIALS INSPECTION, SAMPLING REPORT, AND LEAD WORK SAFE PLAN SPECIFICATION 02050 FOR ABATEMENT PROCEDURES AND LEGAL REMOVAL AND DISPOSAL REQUIREMENTS. REFER TO ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL FOR LEAD-BASED PAINT INSPECTION DATA & APPENDIX C FOR LEAD XRF TEST RESULTS FOR PROJECT-SPECIFIC DATA.	

GENERAL NOTES	
1.	IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED, AND PROTECTED.
2.	ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES AND THE INTERIOR OF THE BUILDING SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE RESPONSIBLE CONTRACTOR (I.E. GENERAL CONTRACTOR OR ASBESTOS CONTRACTOR) SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.
3.	ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION TO SCHOOL OPERATIONS AND SHALL COMPLY WITH PROCEDURES OUTLINED IN SPECIFICATION SECTION 01303 OF THE PROJECT MANUAL.
4.	EACH CONTRACTOR SHALL ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG THE CONTRACTORS EMPLOYEES AND OTHER PERSONS CARRYING OUT THE CONTRACT. THE CONTRACTOR SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT SKILLED IN THE TASKS ASSIGNED TO THEM.
5.	EACH CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL HIS OWN PROJECT WASTE MATERIAL, AND RUBBISH FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
6.	CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
7.	CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR BIDDING AND ESTIMATING.
8.	CONTRACTOR TO PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
9.	ALL PROJECT WASTE MATERIAL AND RUBBISH TO BE DISPOSED IN CONTAINERS PROVIDED BY EACH CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE CONSTRUCTION MANAGER AND OWNER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
10.	ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHOULD BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER.
11.	ALL DEBRIS, DUST, AND DIRT CAUSED BY WORK OF THIS CONTRACT SHALL BE REMOVED FROM SITE BY APPROPRIATE MEANS. RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.

WIRE AND CONDUIT NOTE	
THE ROOF CONTRACTOR SHALL HAVE ALL ELECTRICAL CONDUIT IN THE VICINITY OF THE ROOF RECONSTRUCTION DISCONNECTED BY A LICENSED ELECTRICIAN AS NEEDED. CONDUIT SHOULD BE DISCONNECTED AS REQUIRED AS THE AREA THAT CONTAINS THE ELECTRICAL CONDUIT BECOMES IMPACTED BY ROOF RECONSTRUCTION WORK. THE CONTRACTOR MUST REVIEW & COORDINATE ALL ELECTRICAL CONDUIT DISCONNECTS WITH THE SCHOOL DISTRICT, SO AS NOT TO DISRUPT OR INTERFERE WITH SCHOOL OPERATIONS. WHEN ROOF RECONSTRUCTION WORK HAS BEEN COMPLETED IN A PARTICULAR AREA, ANY ELECTRICAL CONDUIT THAT CAN REASONABLY BE REINSTALLED WITHOUT EFFECTING ONGOING AREAS OF ROOF RECONSTRUCTION, SHALL BE SO REINSTALLED BY A LICENSED ELECTRICIAN. THE ROOF CONTRACTOR WILL PROVIDE PRE-MANUFACTURED PIPE SUPPORT PEDESTAL ASSEMBLIES FOR ALL CONDUIT. PIPE PEDESTAL SUPPORT DESIGN & SPACING SHALL BE SPECIFIED BY ROOF SURFACING MANUFACTURER & REVIEWED BY ARCHITECT PRIOR TO CONSTRUCTION OR PURCHASE BY THE CONTRACTOR. ALL ELECTRICAL CONNECTIONS SHALL BE RESTORED UPON COMPLETION OF THE WORK. ALL ELECTRICAL WORK TO EXISTING ROOF TOP EQUIPMENT WHICH MUST BE EXTENDED DUE TO NEW ELEVATION OF ROOF CURBS IS ALSO THE FULL RESPONSIBILITY OF THE ROOF CONTRACTOR.	

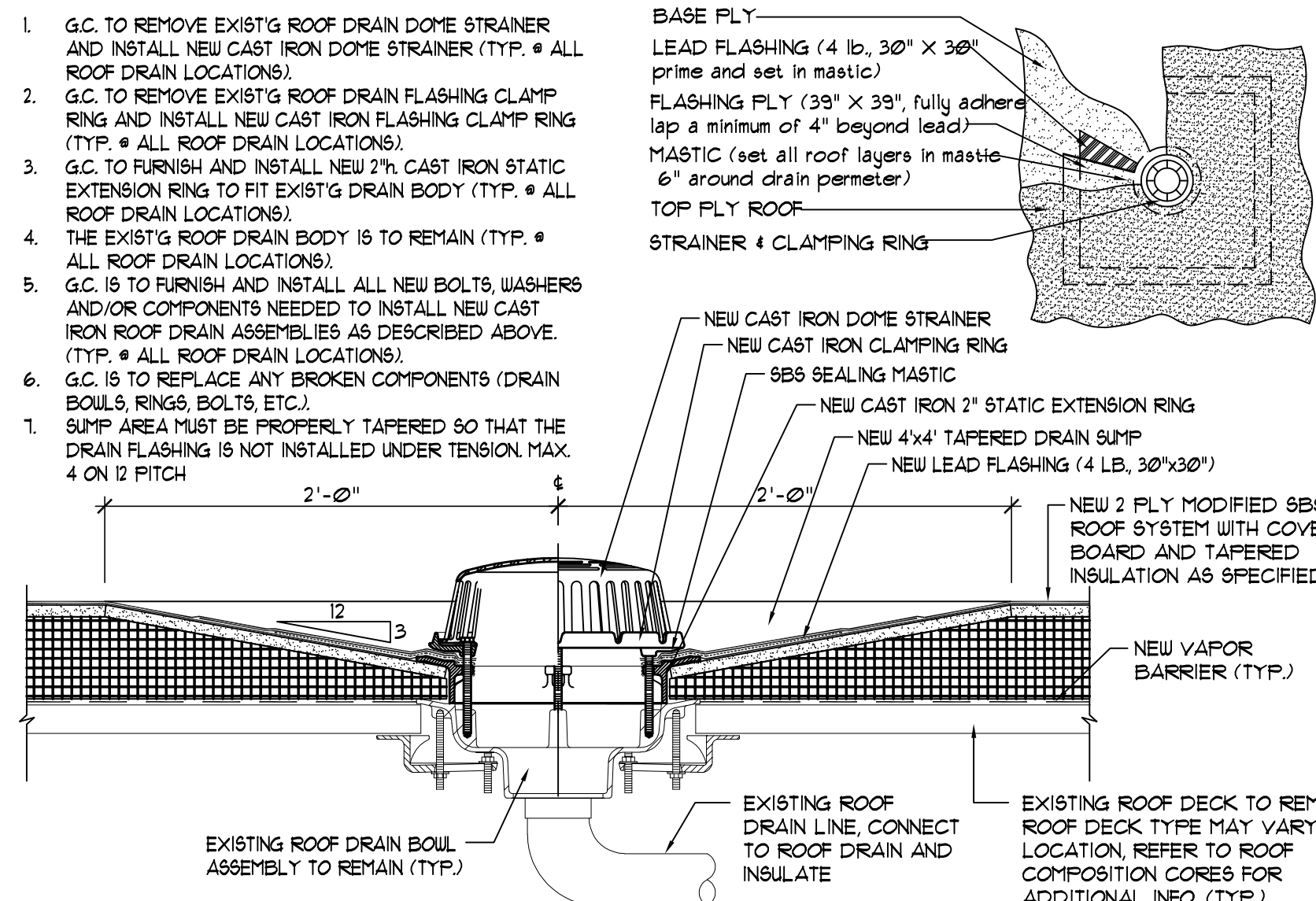
NOTE TO CONTRACTOR:	
ANY SQUARE FOOTAGES AND/OR DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS FULLY RESPONSIBLE TO FIELD-VERIFY ALL ROOF AREA DIMENSIONS AND INCLUDE ALL CONDITIONS AS A PART OF THE BASE BID COST.	



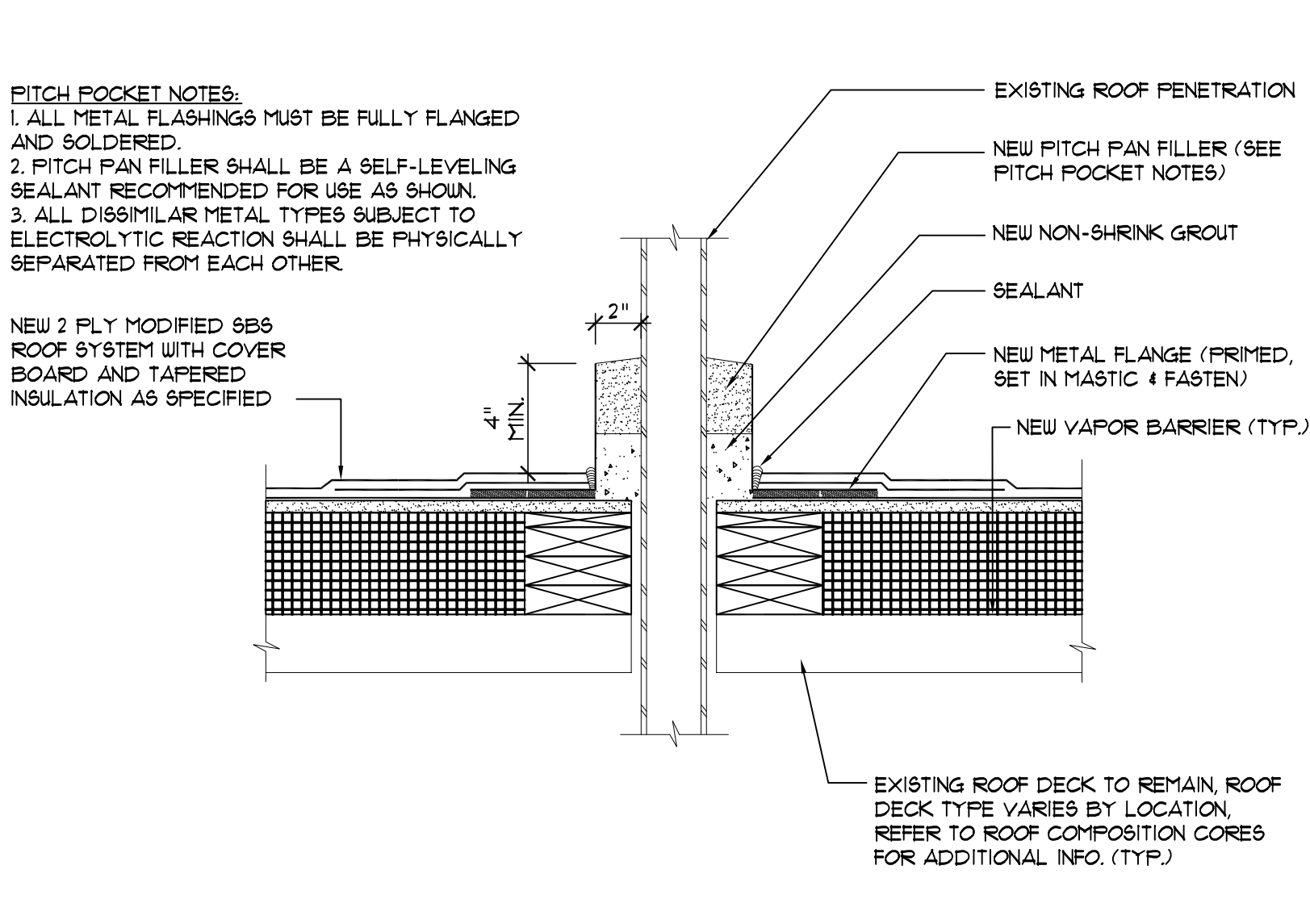
ROOF DEMOLITION AND PROPOSED PLAN  
HIGHVIEW ELEMENTARY SCHOOL

SCALE: 1/16" = 1'-0"

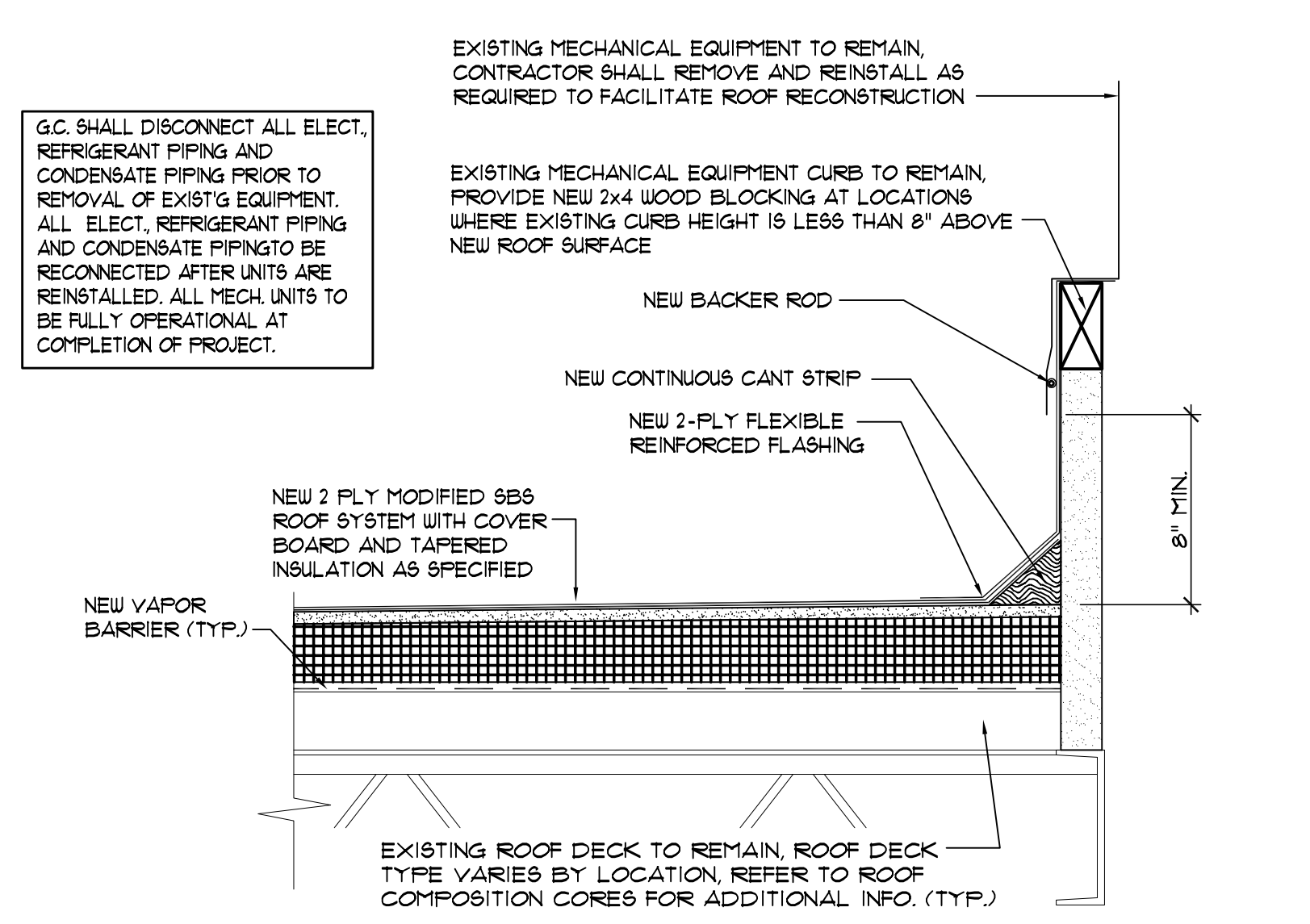
REV.	DATE	ITEM
NOTICE THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PROVIDED BY BAA ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY HAVE NOT BEEN FIELD AND DETAIL PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.		
KEY PLAN NOT TO SCALE		
GREENBURGH CENTRAL SCHOOL DISTRICT PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS HIGHVIEW ELEMENTARY SCHOOL HARTSDALE, NEW YORK - WESTCHESTER COUNTY		
PROJECT	DRAWING BY: SES CHECK BY: JWW	
DWG TITLE	NOTICE THIS DRAWING, PREPARED FOR THE SPECIFIC PROJECT INDICATED IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. IMPROVEMENT OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PROHIBITED. ANY ALTERATION OR REPRODUCTION OF THIS DOCUMENT IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR ENGINEER.	
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SED No:	66-04-07-06-002-013	
DISTRICT	GREENBURGH CSD	
PROJECT	PH. I - DW CAP. IMPROVEMENTS HIGHVIEW E.S.	
DWG TITLE	ROOF DEMOLITION & PROPOSED PLANS	
SCALE:	AS NOTED	
DATE:	MAY 2022	
BID PICK-UP:	MAY 27, 2022	
FILE No:	21-288	
A3.01A OF		



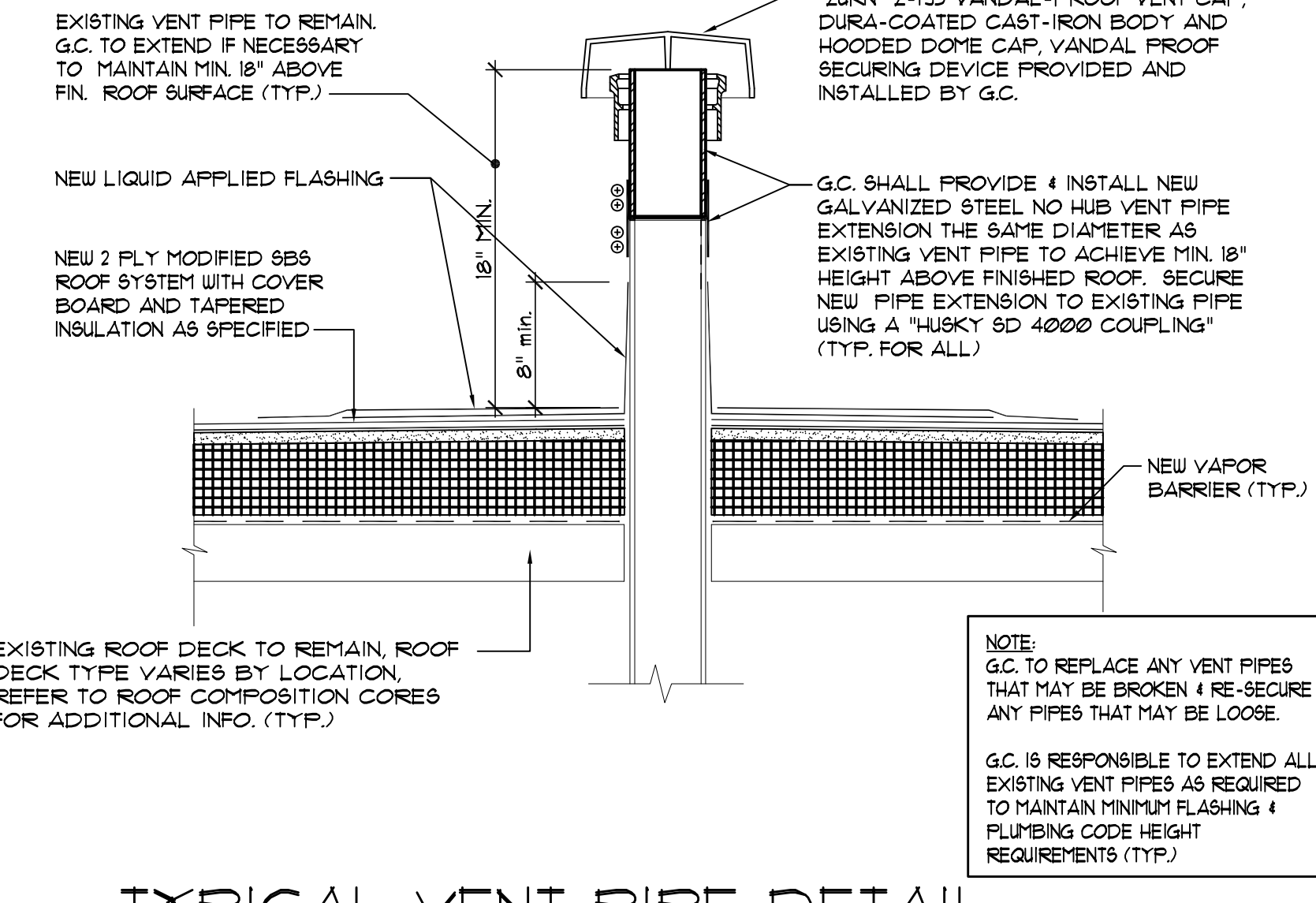
1 EXIST'G ROOF DRAIN DETAIL  
SCALE: 1 1/2" = 1'-0"



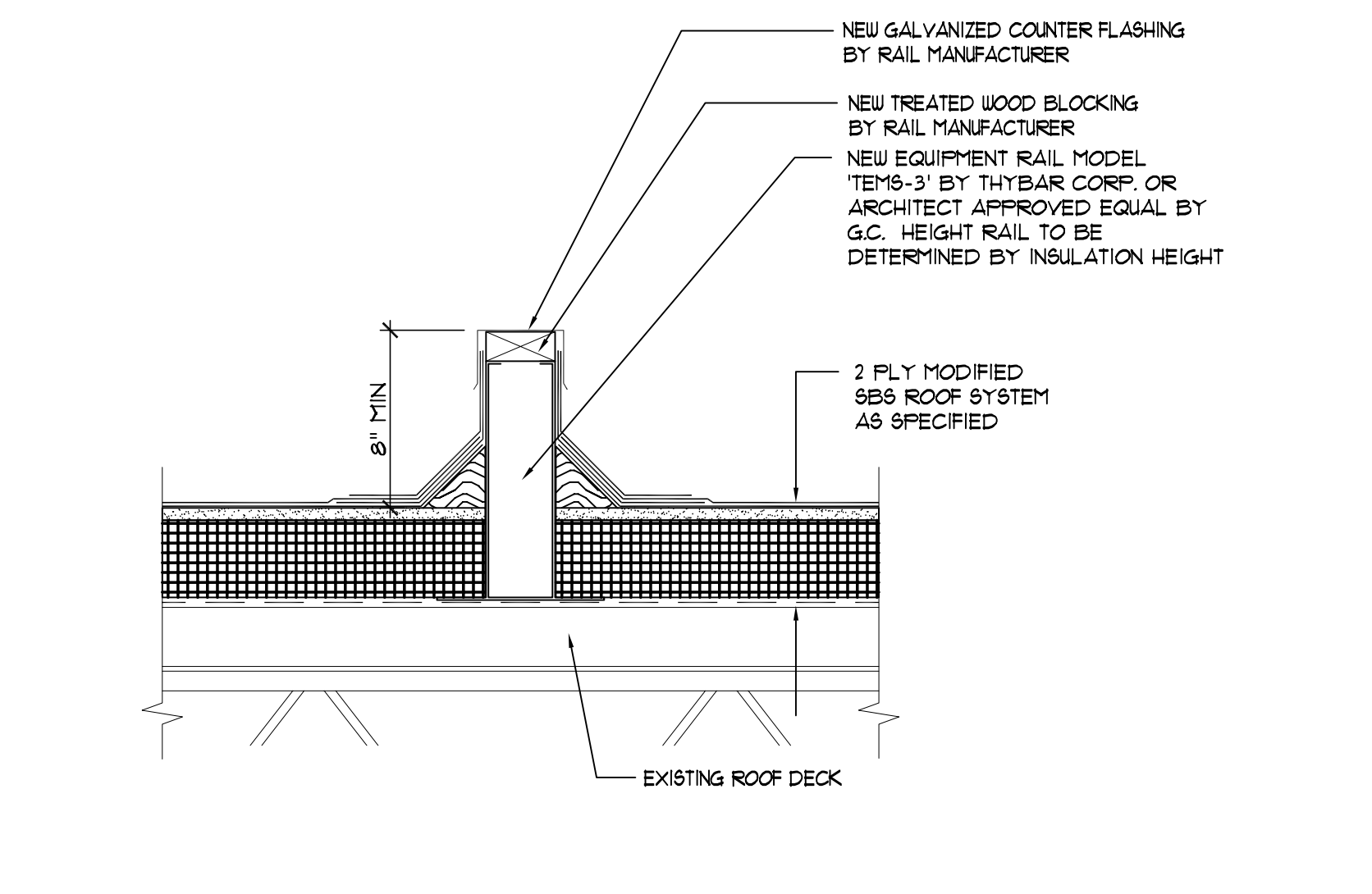
2 TYPICAL PITCH POCKET DETAIL  
SCALE: 1 1/2" = 1'-0"



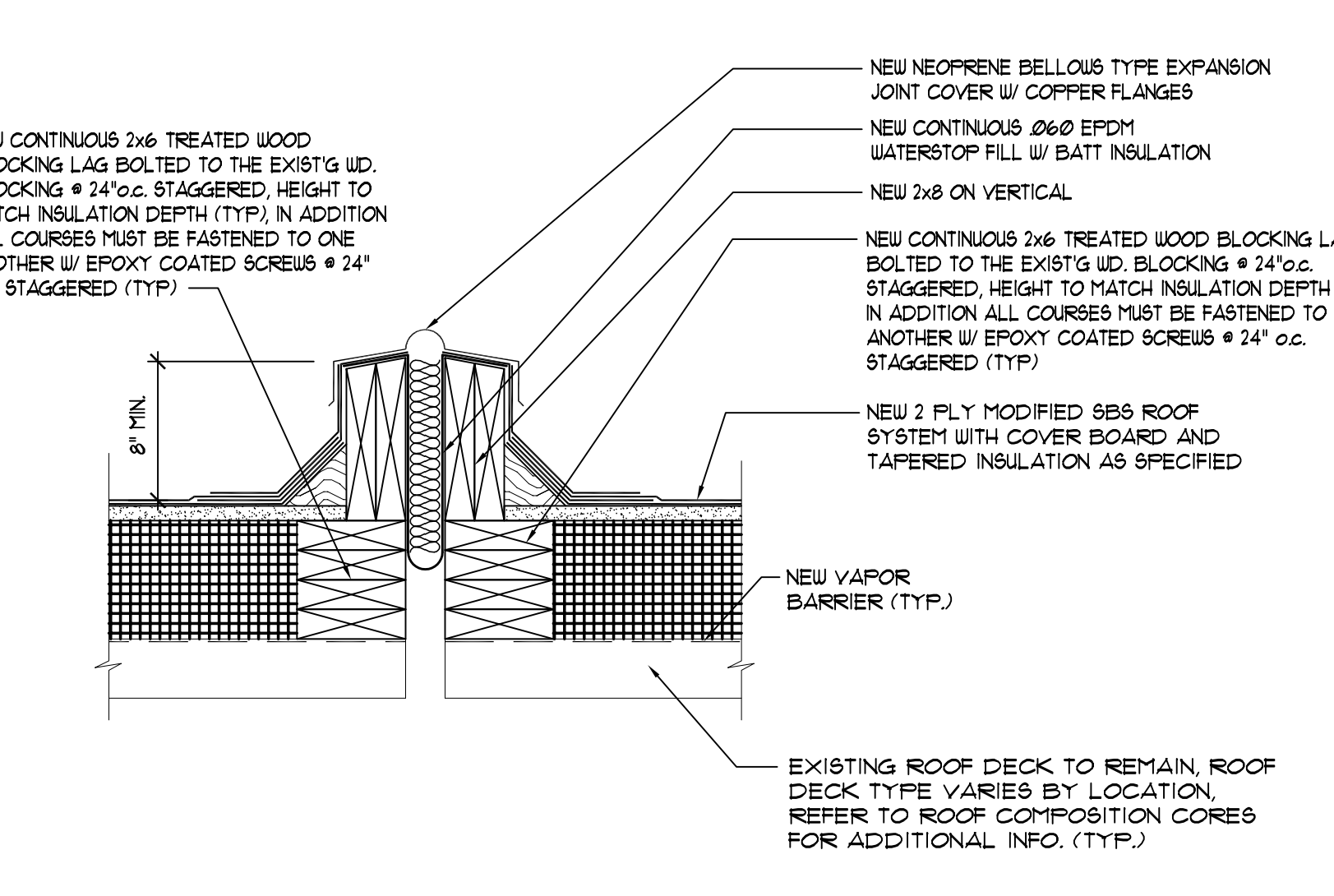
3 TYPICAL EQUIPMENT CURB DETAIL  
SCALE: 1 1/2" = 1'-0"



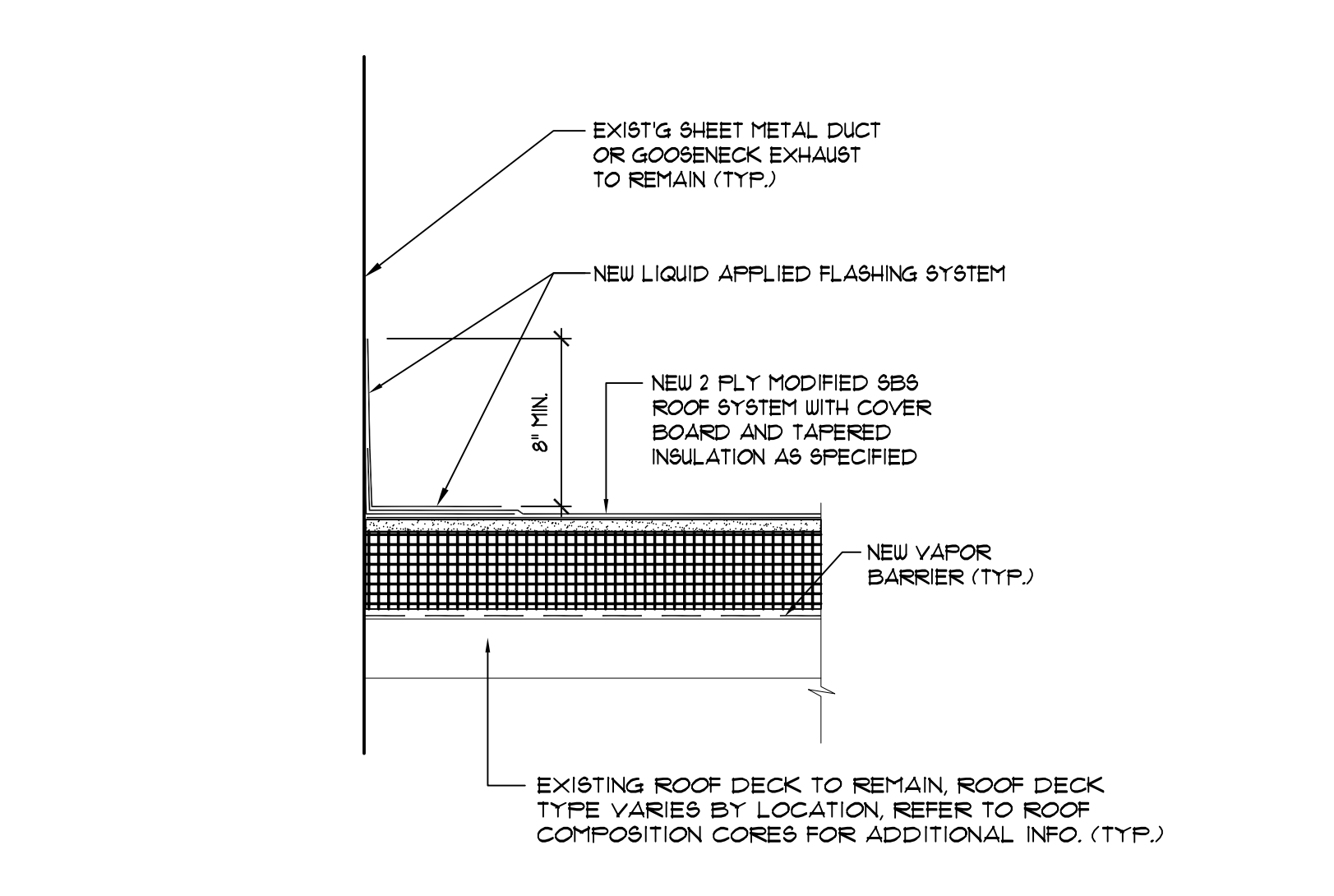
4 TYPICAL VENT PIPE DETAIL  
SCALE: 1 1/2" = 1'-0"



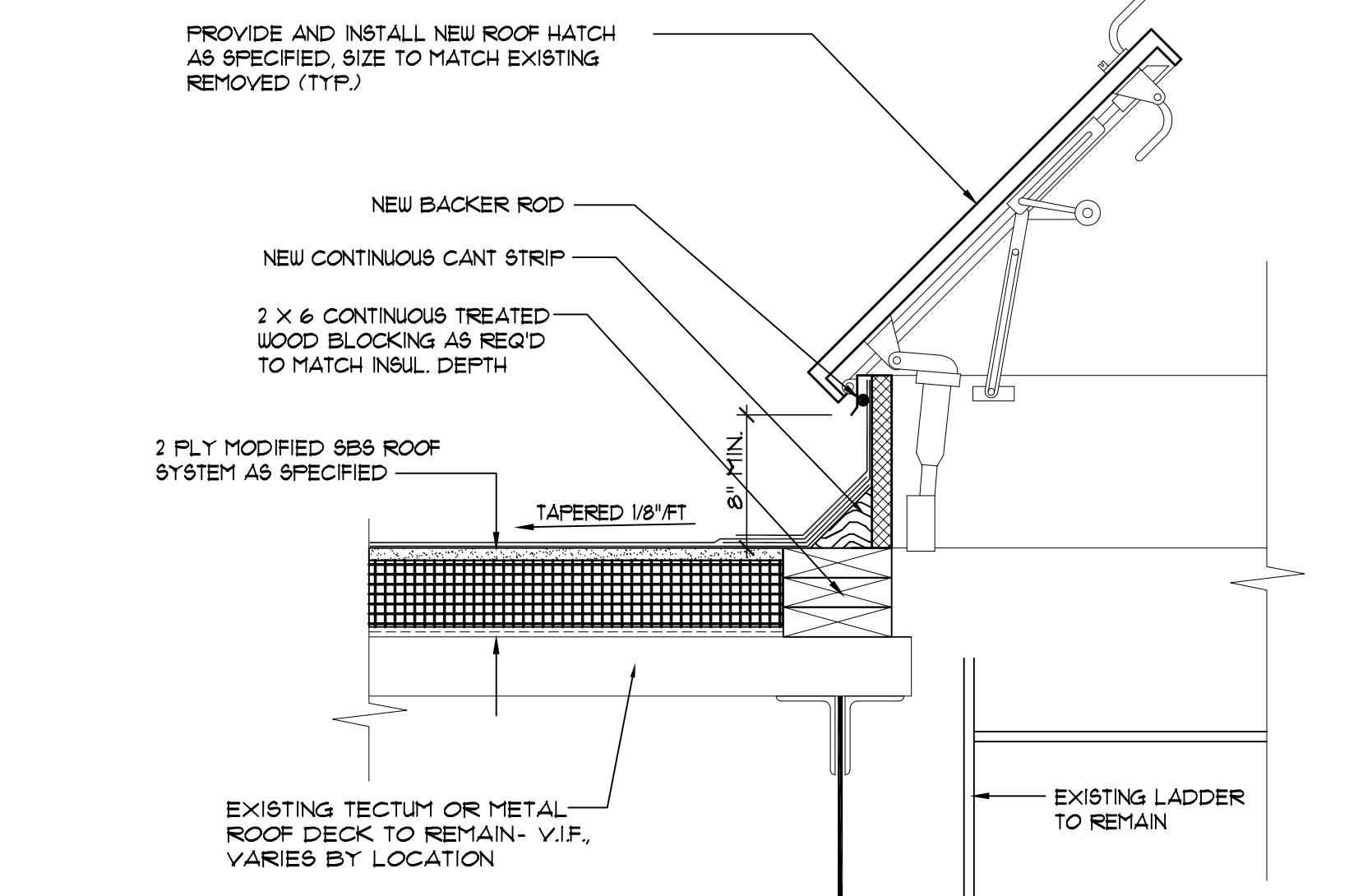
5 TYPICAL EQUIPMENT RAIL DETAIL  
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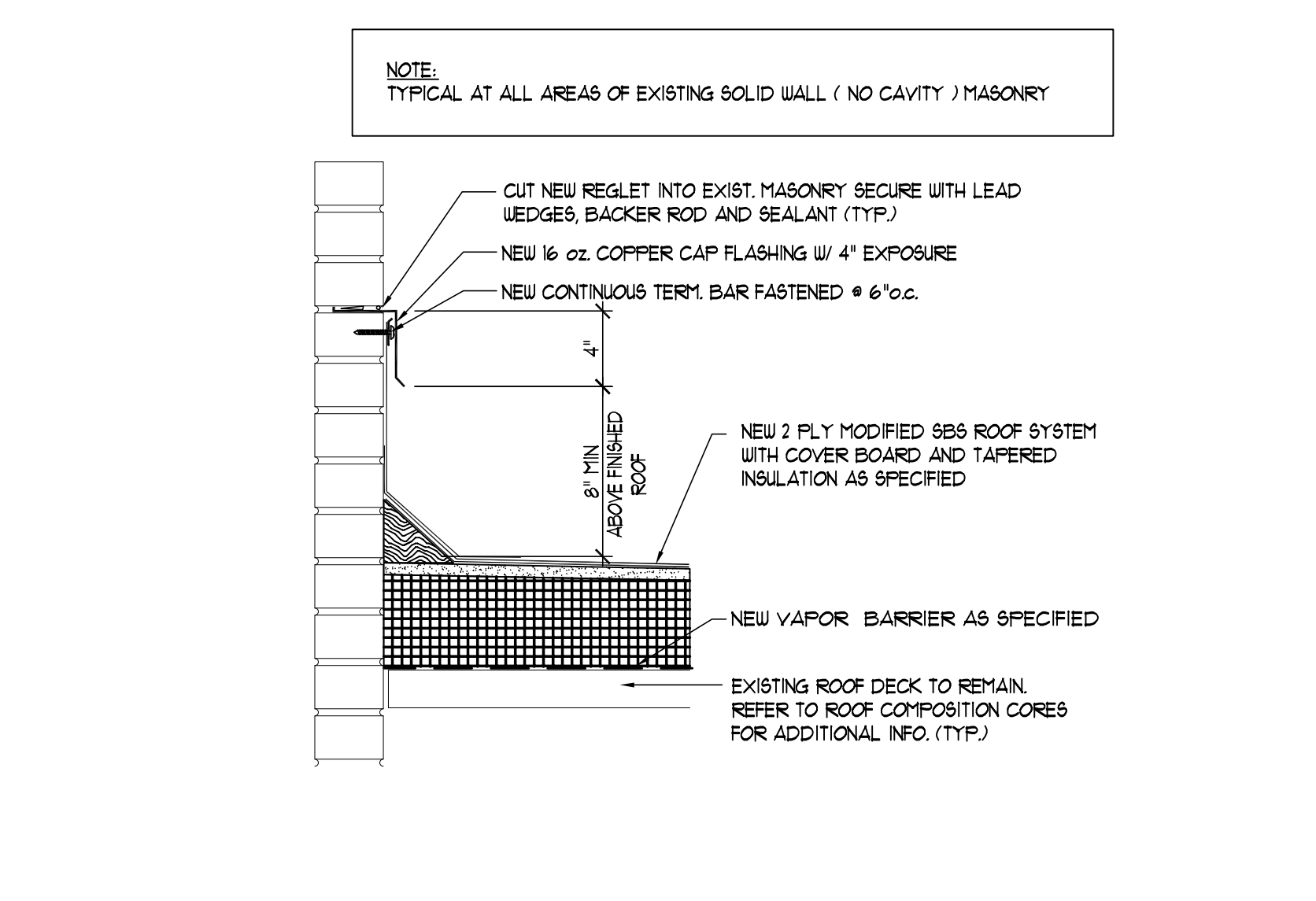
6 TYPICAL EXPANSION JOINT DETAIL  
SCALE: 1 1/2" = 1'-0"



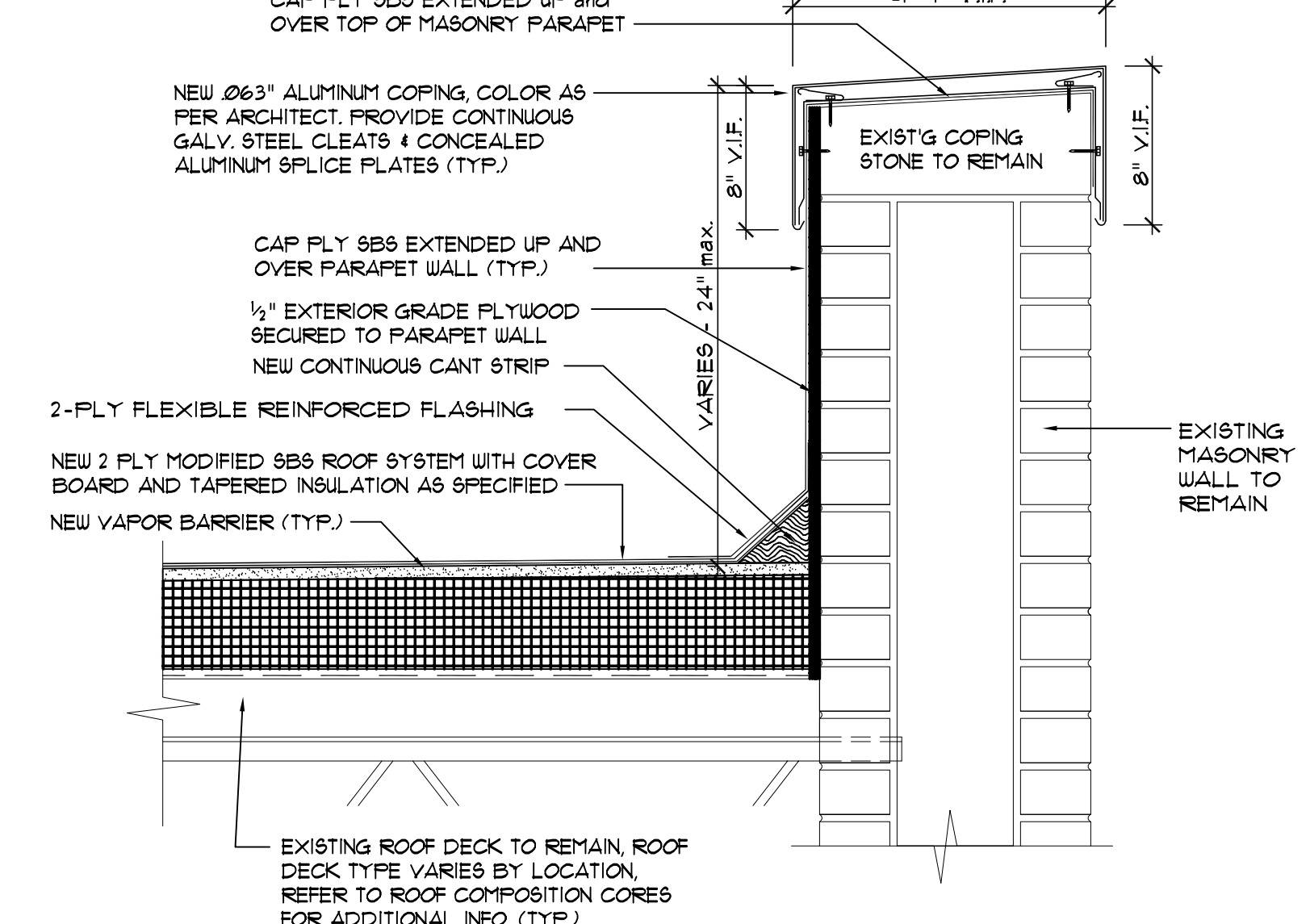
7 TYPICAL SHEET METAL DUCT/PIPE DETAIL  
SCALE: 1-1/2" = 1'-0"



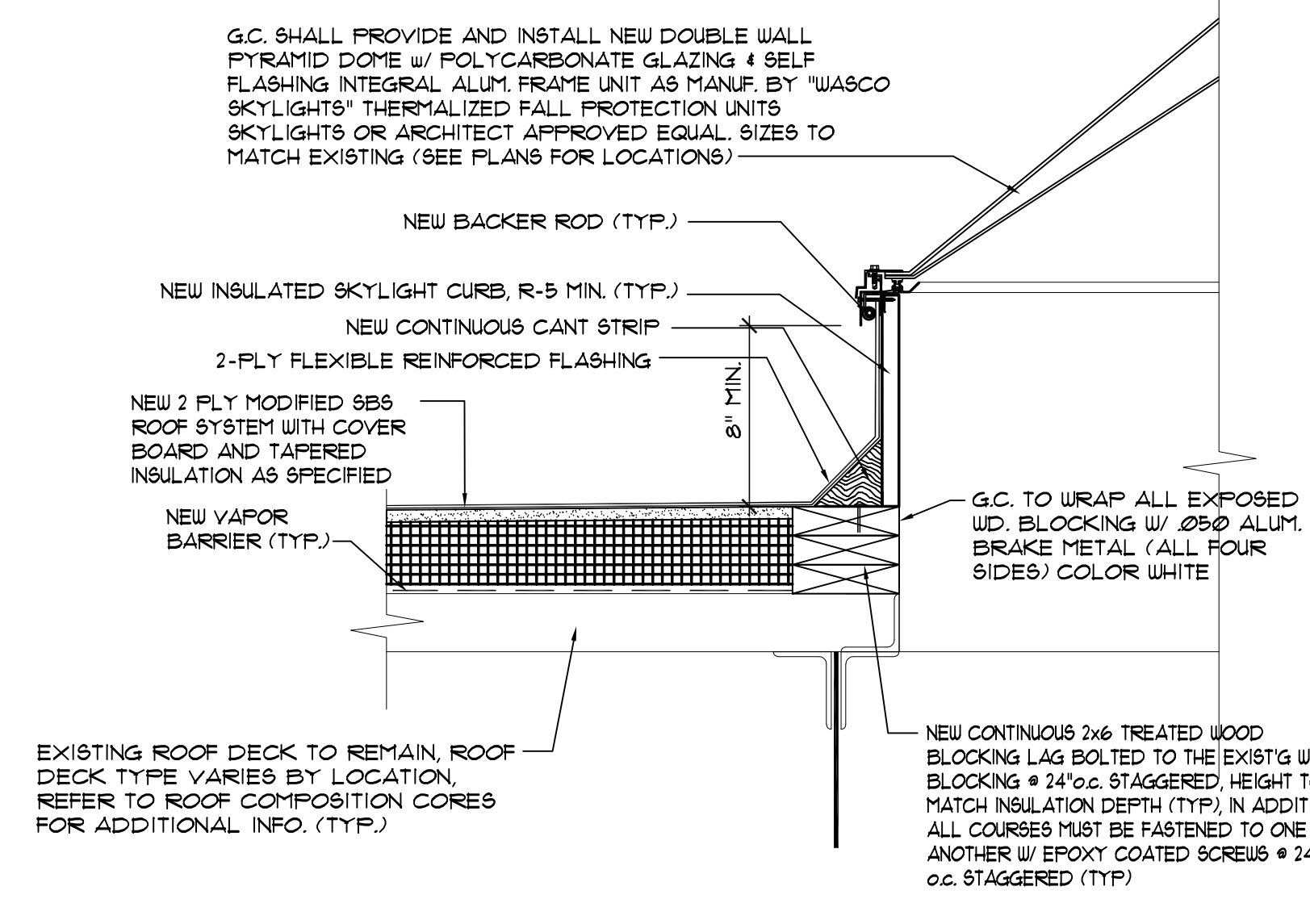
8 TYPICAL ROOF HATCH DETAIL  
SCALE: 1-1/2" = 1'-0"



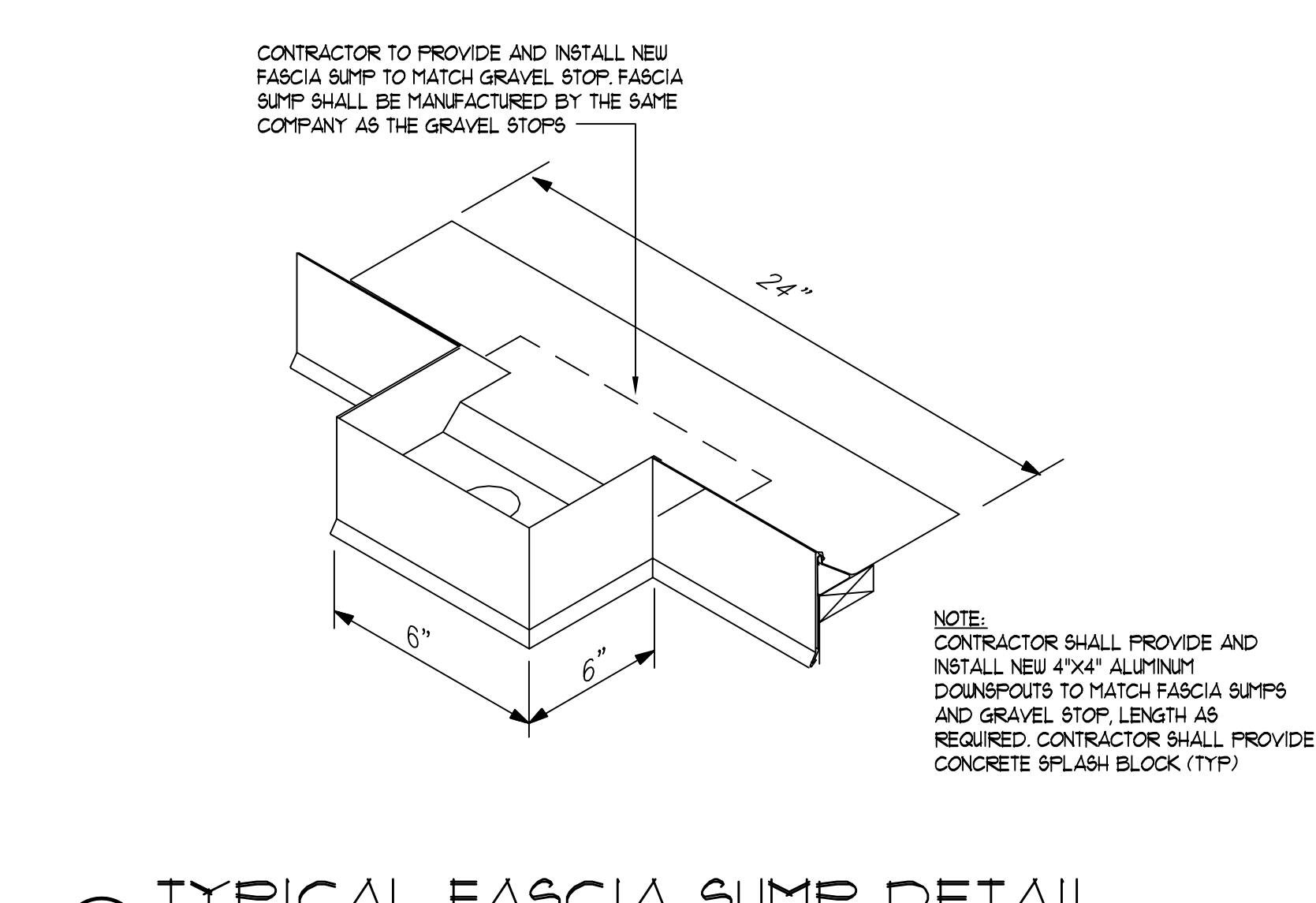
9 TYPICAL REGLET DETAIL  
SCALE: 1 1/2" = 1'-0"



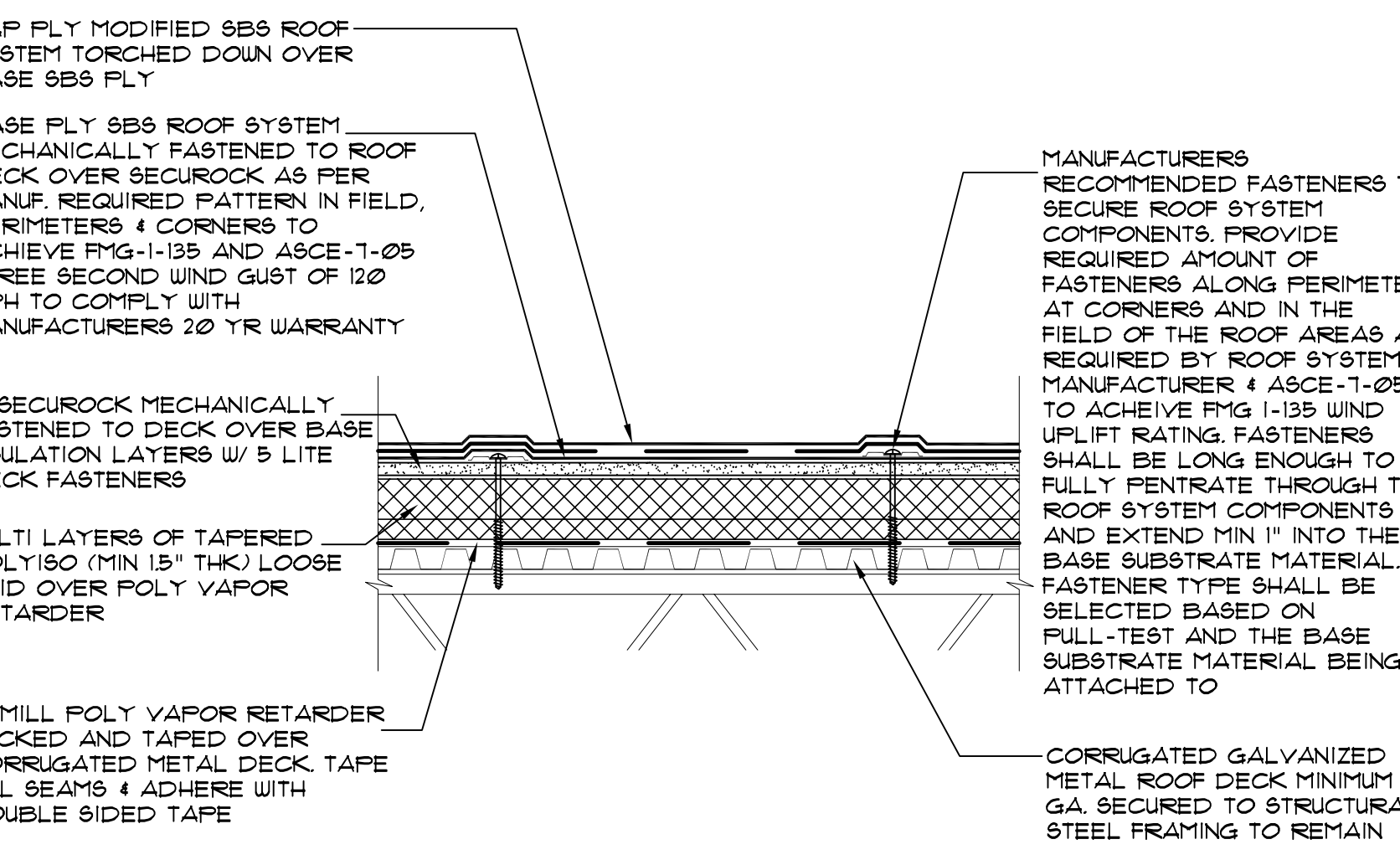
10 TYPICAL ROOF COPING DETAIL  
SCALE: 1-1/2" = 1'-0"



11 SKYLIGHT REPLACEMENT DETAIL  
SCALE: 1-1/2" = 1'-0"



12 TYPICAL FASCIA SUMP DETAIL  
SCALE: 1 1/2" = 1'-0"



13 ROOF DETAIL OVER CORRUGATED METAL DECK  
SCALE: 1 1/2" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN  
NOT TO SCALE

PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
HIGHVIEW ELEMENTARY SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
ROOF DETAILS

DRAWING BY: SES  
CHECK BY: JWW

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SED No: 66-04-07-06-002-013

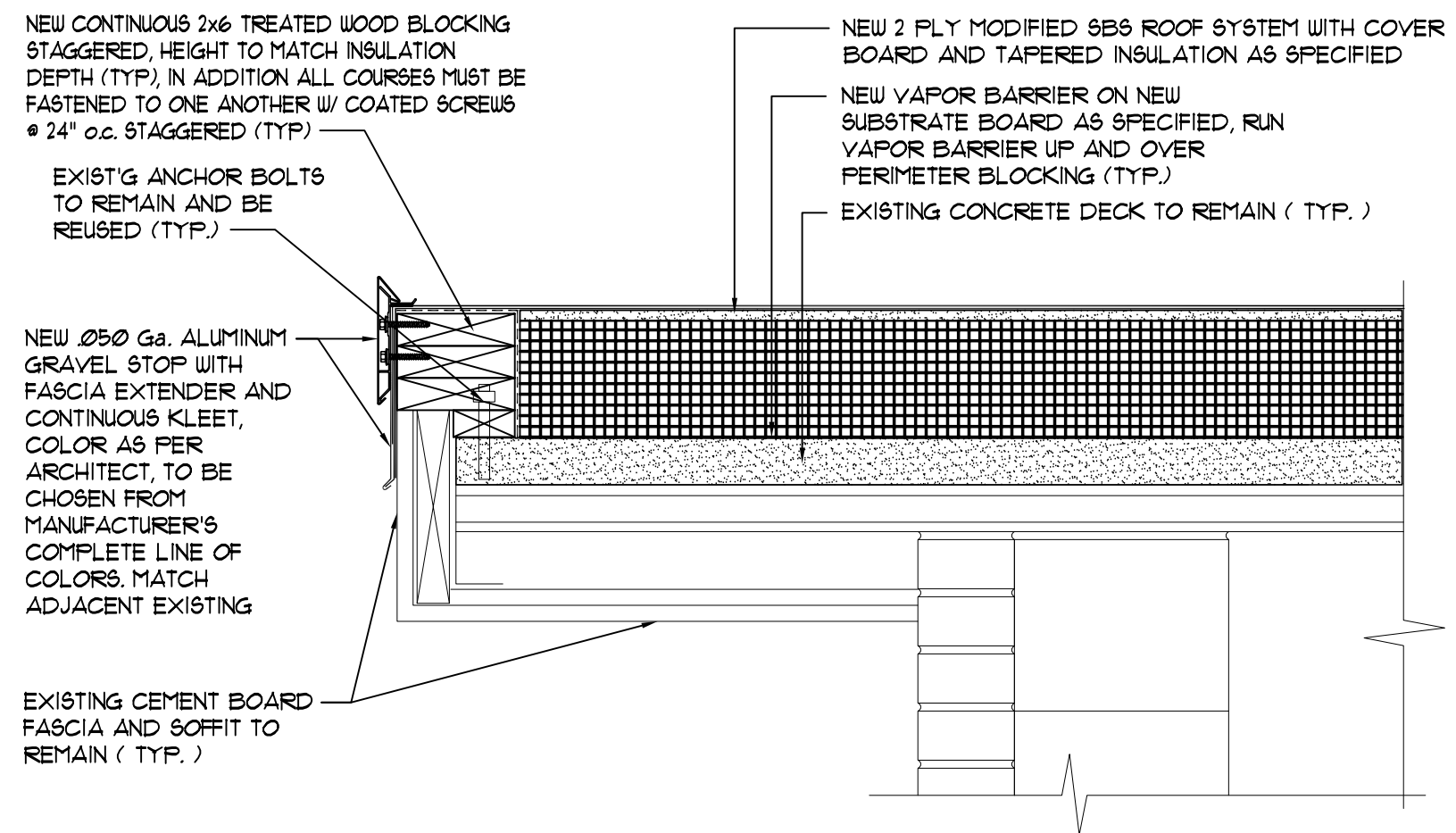
DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP. IMPROVEMENTS  
HIGHVIEW E.S.

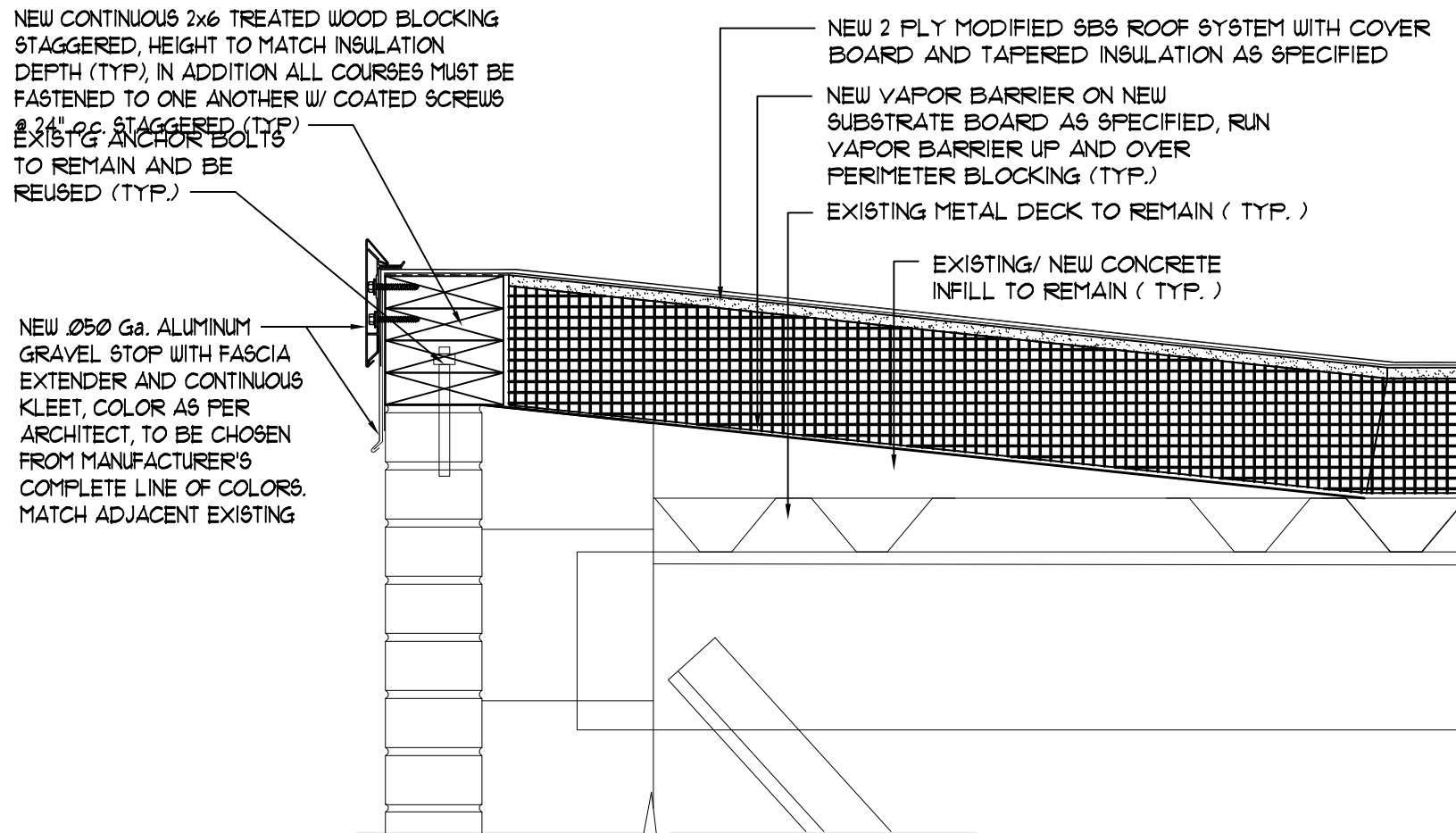
DWG TITLE: ROOF DETAILS

SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-288

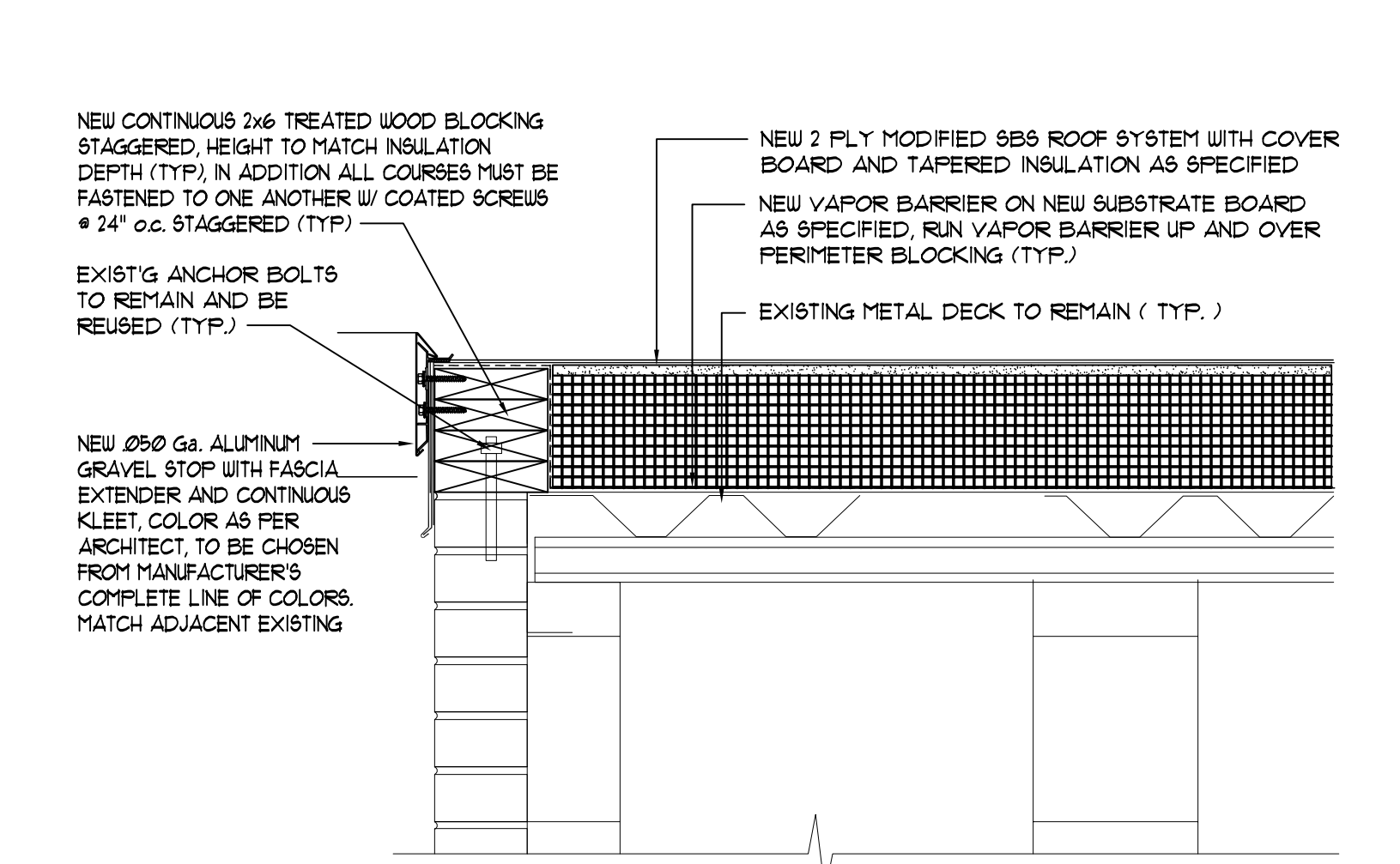
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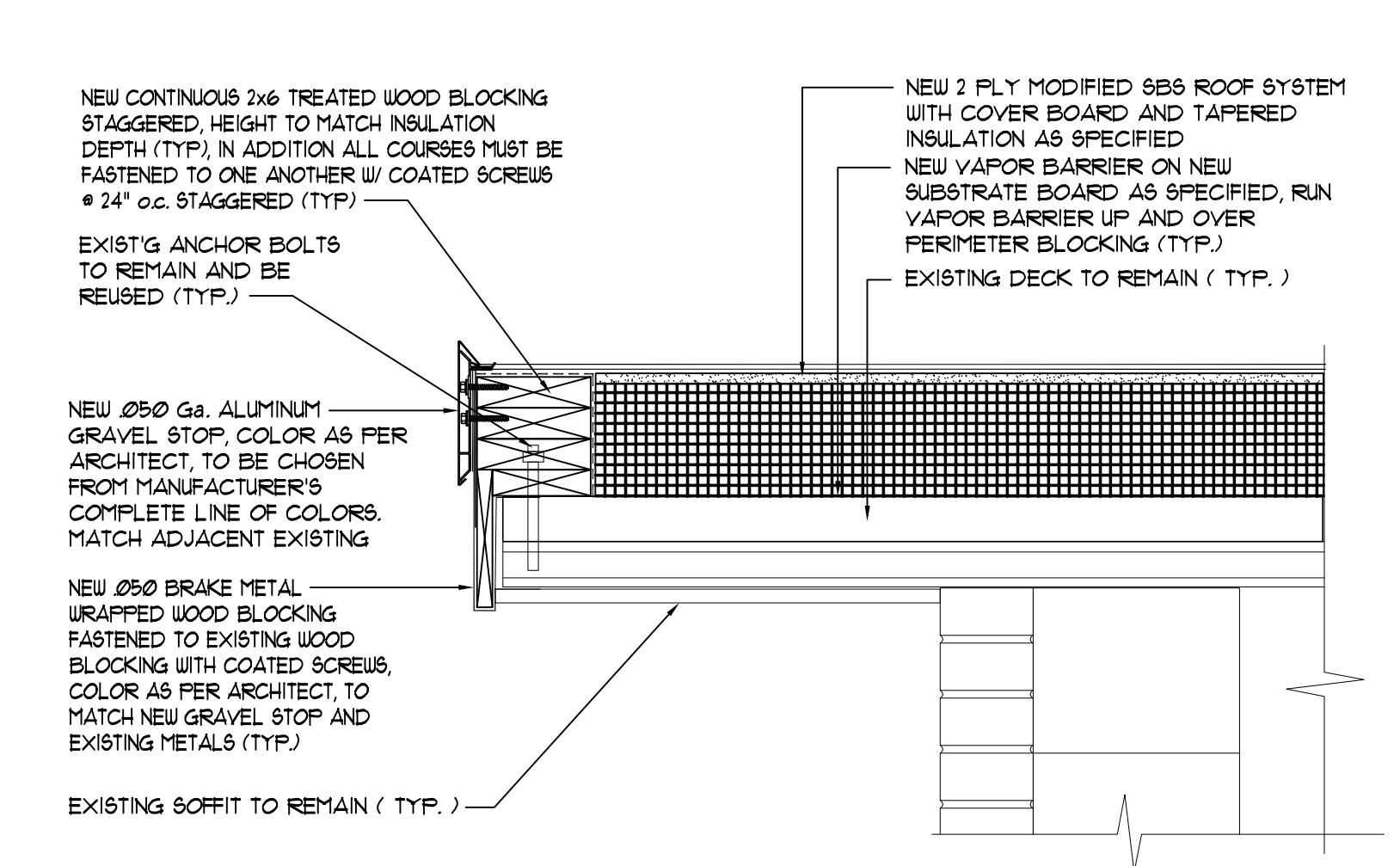
1 TYPICAL ROOF EDGE DETAIL  
SCALE: 1-1/2" = 1'-0"



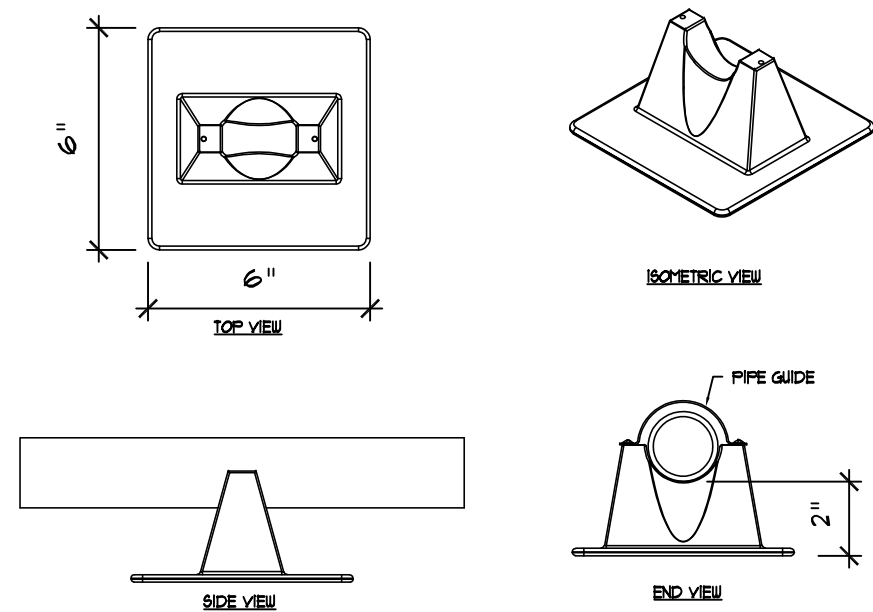
2 TYPICAL ROOF EDGE DETAIL  
SCALE: 1-1/2" = 1'-0"



3 TYPICAL ROOF EDGE DETAIL  
SCALE: 1-1/2" = 1'-0"

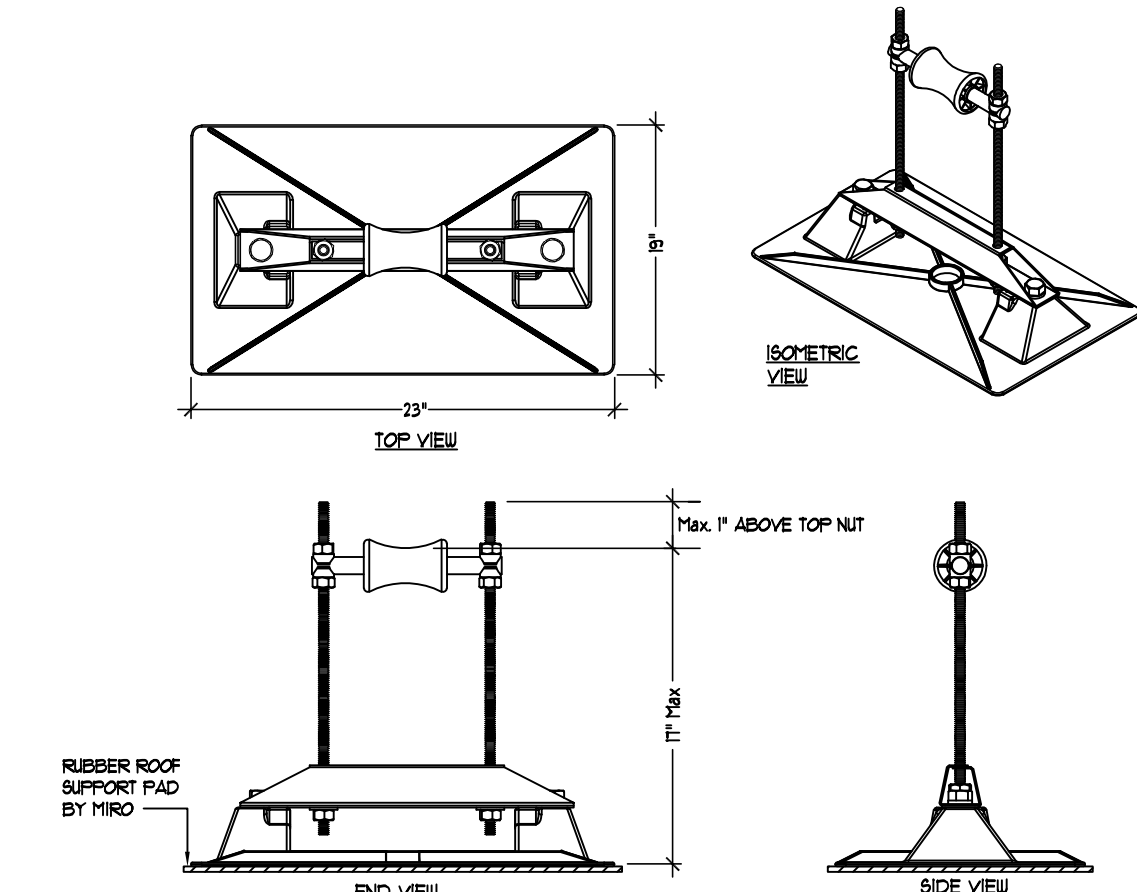


4 TYPICAL ROOF EDGE DETAIL  
SCALE: 1-1/2" = 1'-0"



PROVIDE 1 INSTALL A "YELLOW-BLOCK" PIPE SUPPORT FOR ROOF MOUNTED ELECTRICAL CONDUIT. SUPPORTS ARE TO BE MADE OF POLYCARBONATE AS MANUFACTURED BY TRIO INDUSTRIES. NOTE: 3" FILLER BLOCK SUPPORT SPACING NOT TO EXCEED 10'-0" ON CENTER EACH PIPE SUPPORT TO INCLUDE A PIPE GUIDE AND RUBBER ROOF SUPPORT PAD BY TRIO INDUSTRIES.

5 ELECTRICAL CONDUIT SUPPORT DETAIL  
AS REQUIRED  
SCALE: NONE

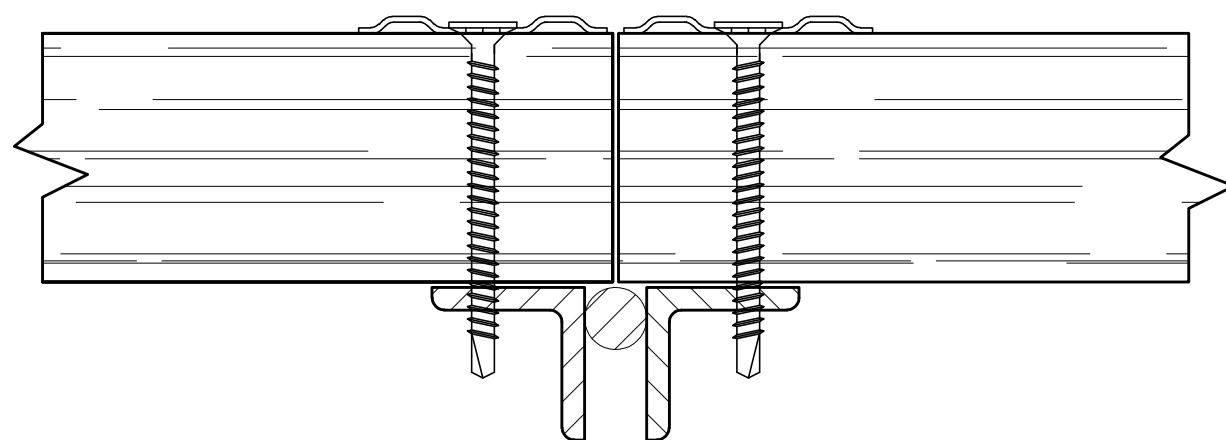


PROVIDE 1 INSTALL A "ROLLER-BEARING" PIPE SUPPORT FOR ROOF MOUNTED GAS PIPING. SUPPORTS ARE TO BE MADE OF POLYCARBONATE AS MANUFACTURED BY TRIO INDUSTRIES. NOTE: 3" FILLER BLOCK SUPPORT SPACING NOT TO EXCEED 10'-0" ON CENTER EACH PIPE SUPPORT TO INCLUDE A PIPE GUIDE AND RUBBER ROOF SUPPORT PAD BY TRIO INDUSTRIES.

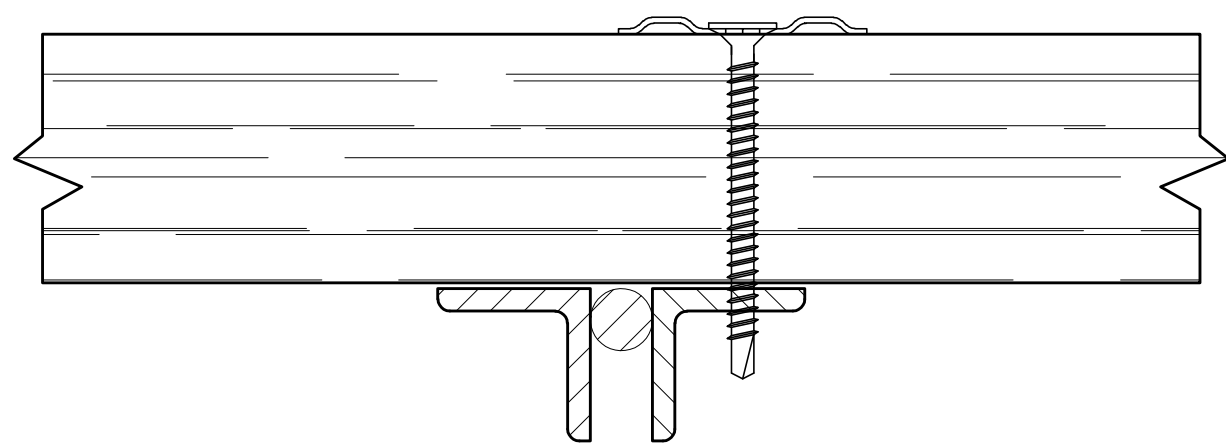
6 GAS PIPE SUPPORT DETAIL  
AS REQUIRED  
SCALE: NONE

TECTUM ROOF DECK REFASTENING NOTE:

AFTER EXISTING ROOFING MEMBRANE & INSULATION HAS BEEN REMOVED DOWN TO EXISTING TECTUM DECK, ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO REFASTEN EXISTING TECTUM DECKING PLANKS TO EXISTING ROOF JOISTS, BEAMS, ETC., USING FASTENERS AND FASTENING PATTERNS AS DESCRIBED IN THESE DETAILS. SEE SPECIFICATIONS FOR ADD'L INFO.

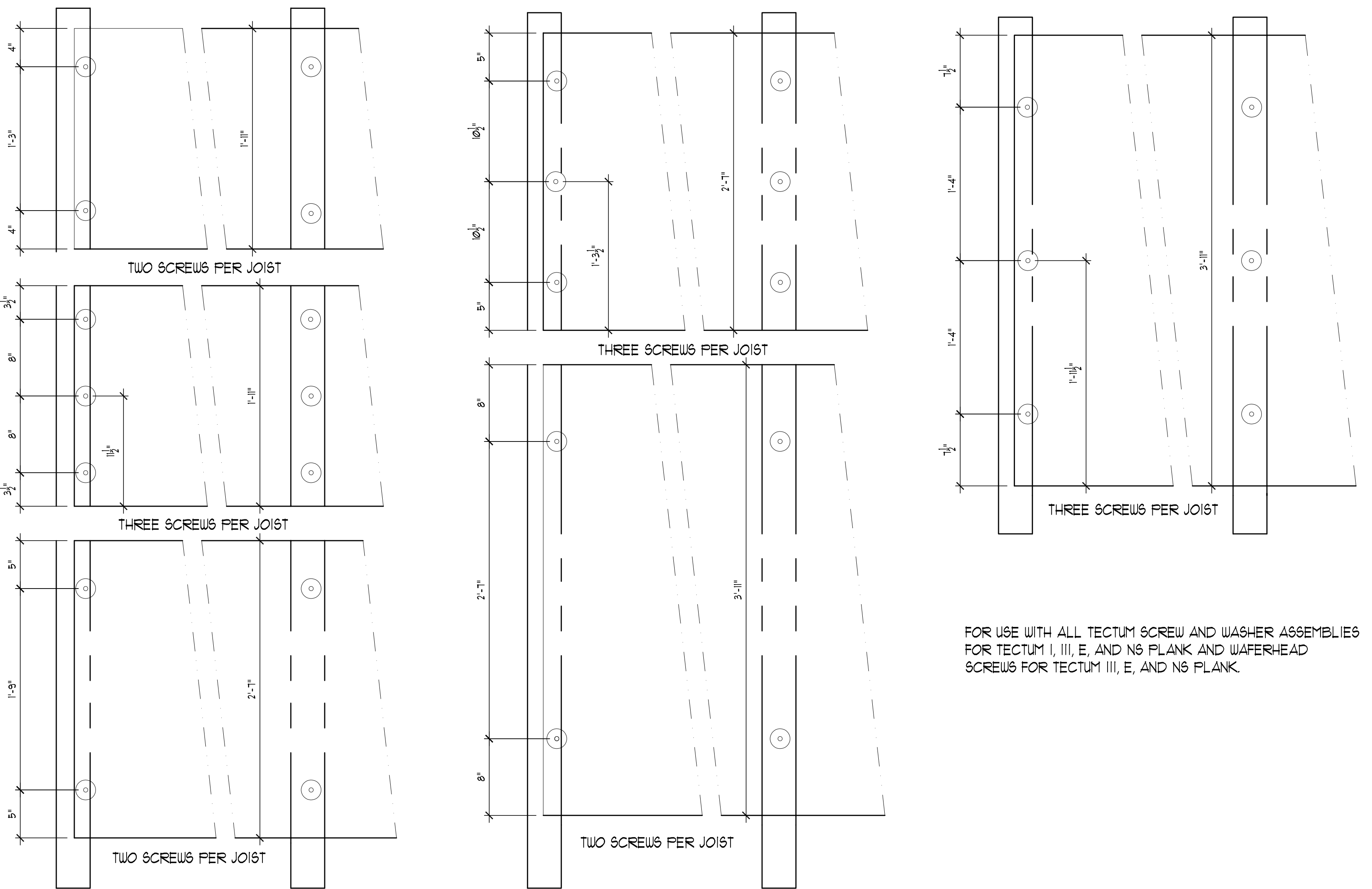


TECTUM 1 DECK USES EITHER DEKFAST 14 SCREWS OR S-25 SELF-DRILLING SCREWS. A 2" DIAMETER WASHER IS REQUIRED.



ONE ROW OF SCREWS IS REQUIRED AT INTERMEDIATE SUPPORTS.

TECTUM DECK OVER STEEL  
NOT TO SCALE



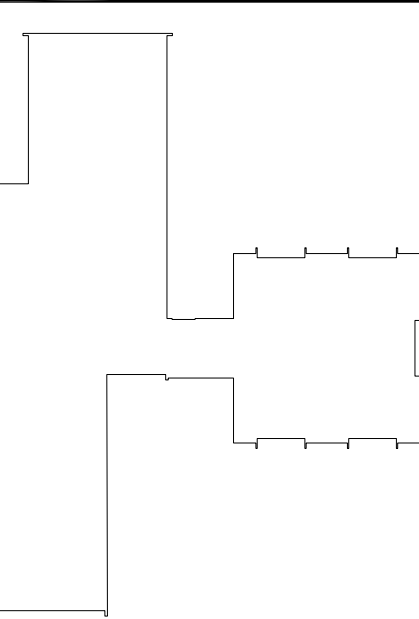
THE LOCATION OF ATTACHMENT SCREWS FOR TECTUM ROOF DECK PRODUCTS IS OFTEN VARIED. THIS DRAWING GIVES TECTUM INC. RECOMMENDED LOCATIONS. IT SHOULD BE NOTED THAT THE SCREWS ARE NOT PLACED AT THE EDGE OF THE PANELS BUT ARE SPACED IN FROM THE EDGE DEPENDING ON THE WIDTH OF THE PANELS AND THE NUMBER OF SCREWS PER JOIST. SPECIAL APPLICATIONS MAY REQUIRE SOME MODIFICATION OF THE SPACING SHOWN.

STANDARD SCREW SPACING FOR TECTUM PLANK SYSTEMS  
NOT TO SCALE

1 TECTUM DECK REFASTENING DETAILS  
SCALE: N.T.S.

REV.	DATE	ITEM

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KEY PLAN  
NOT TO SCALE

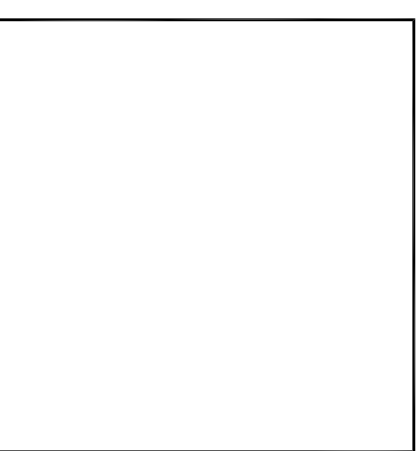
PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
HIGHVIEW ELEMENTARY SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
ROOF DETAILS

DRAWING BY: SES  
CHECK BY: JWW

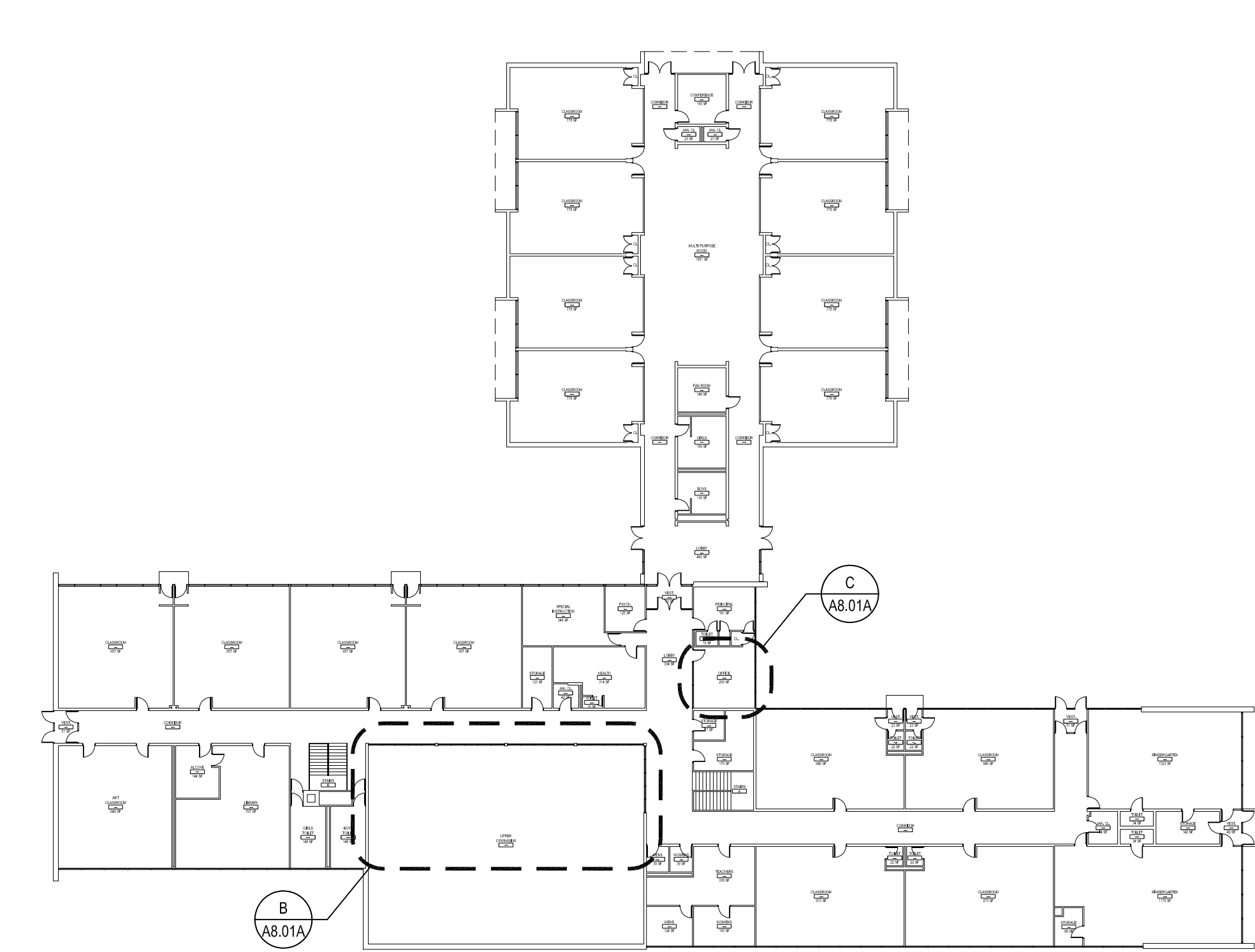
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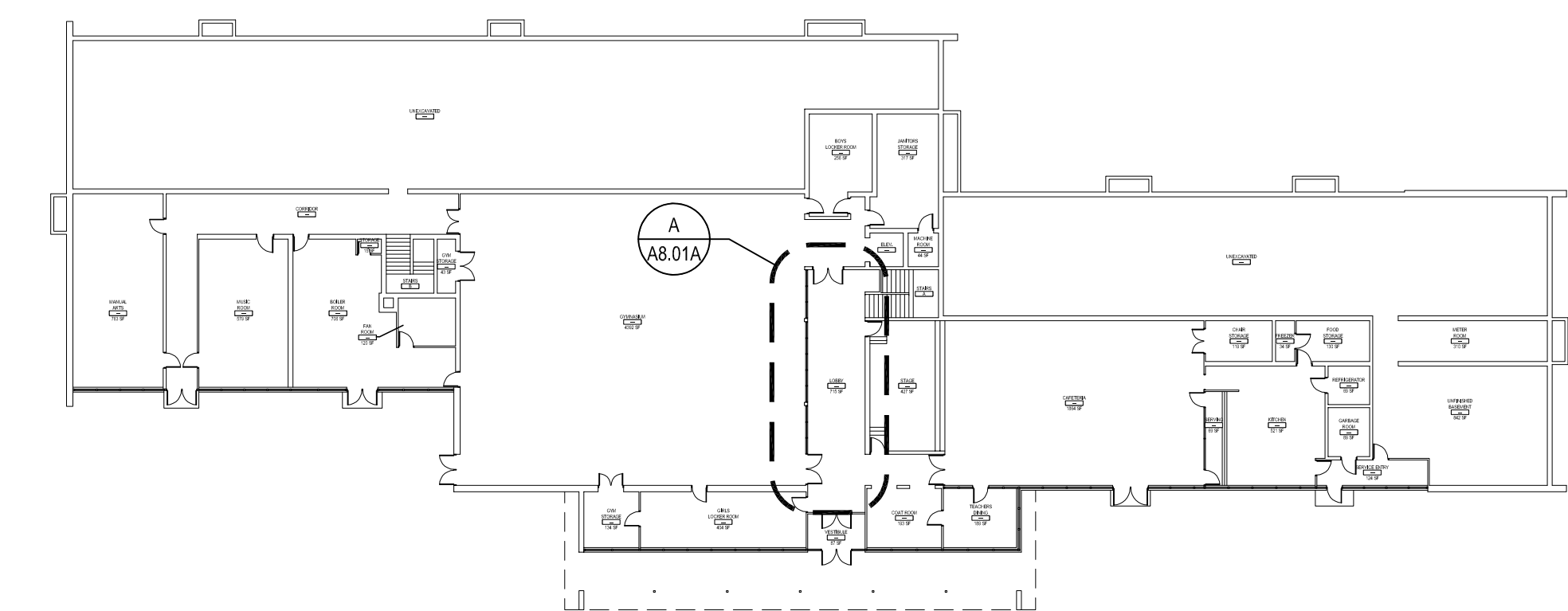
SED No: 66-04-07-06-002-013  
DISTRICT: GREENBURGH CSD  
PROJECT: PH I - DW CAP IMPROVEMENTS  
HIGHVIEW E.S.  
DWG TITLE: ROOF DETAILS  
SCALE: AS NOTED  
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BID PICK-UP: MAY 27, 2022  
FILE No: 21-288

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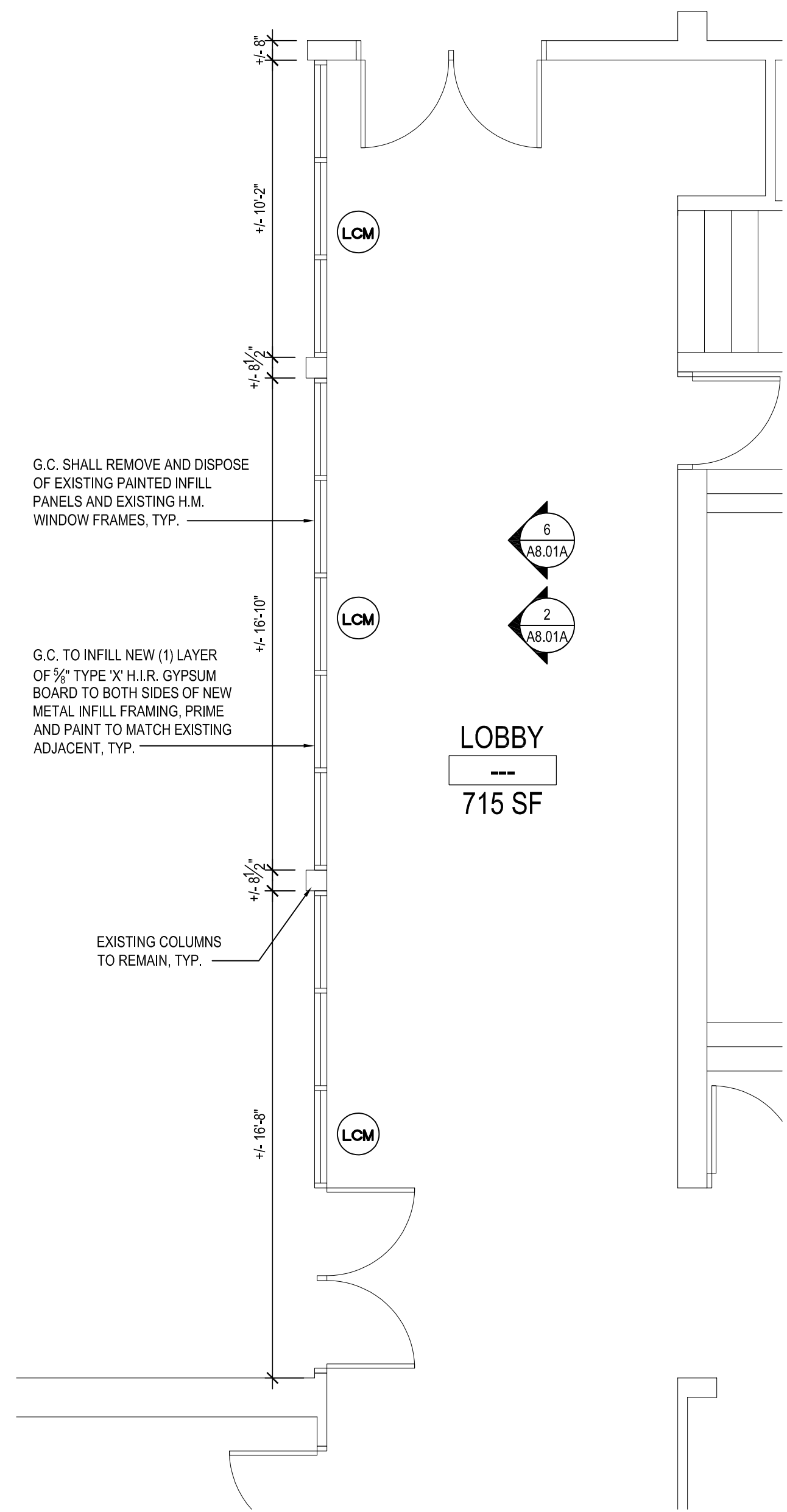
WINDOW AND INFILL PANEL REPLACEMENT UPPER LEVEL KEY PLAN

SCALE: 1/32" = 1'-0"



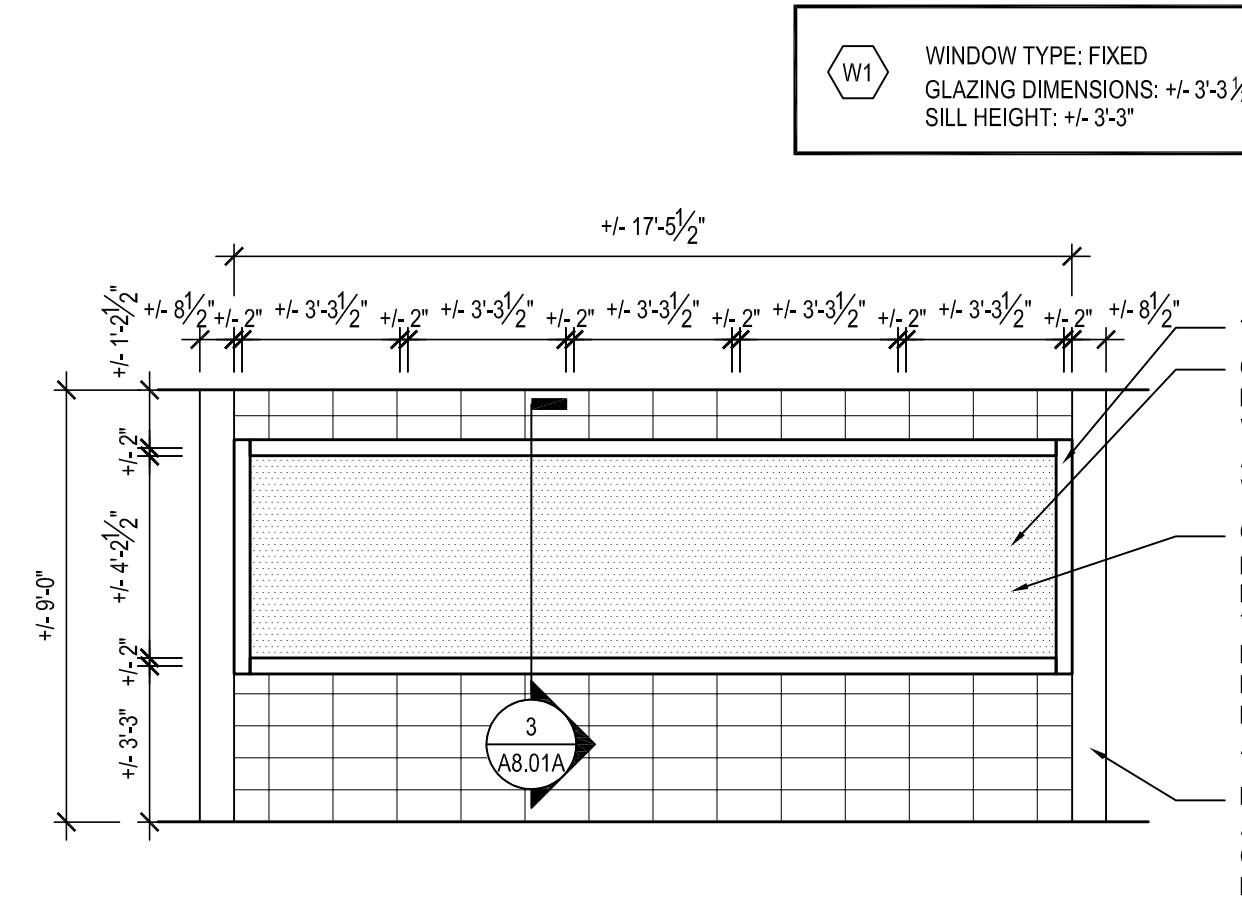
WINDOW AND INFILL PANEL REPLACEMENT LOWER LEVEL KEY PLAN

SCALE: 1/32" = 1'-0"



A PROPOSED INFILL PANEL REPLACEMENT PLAN

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



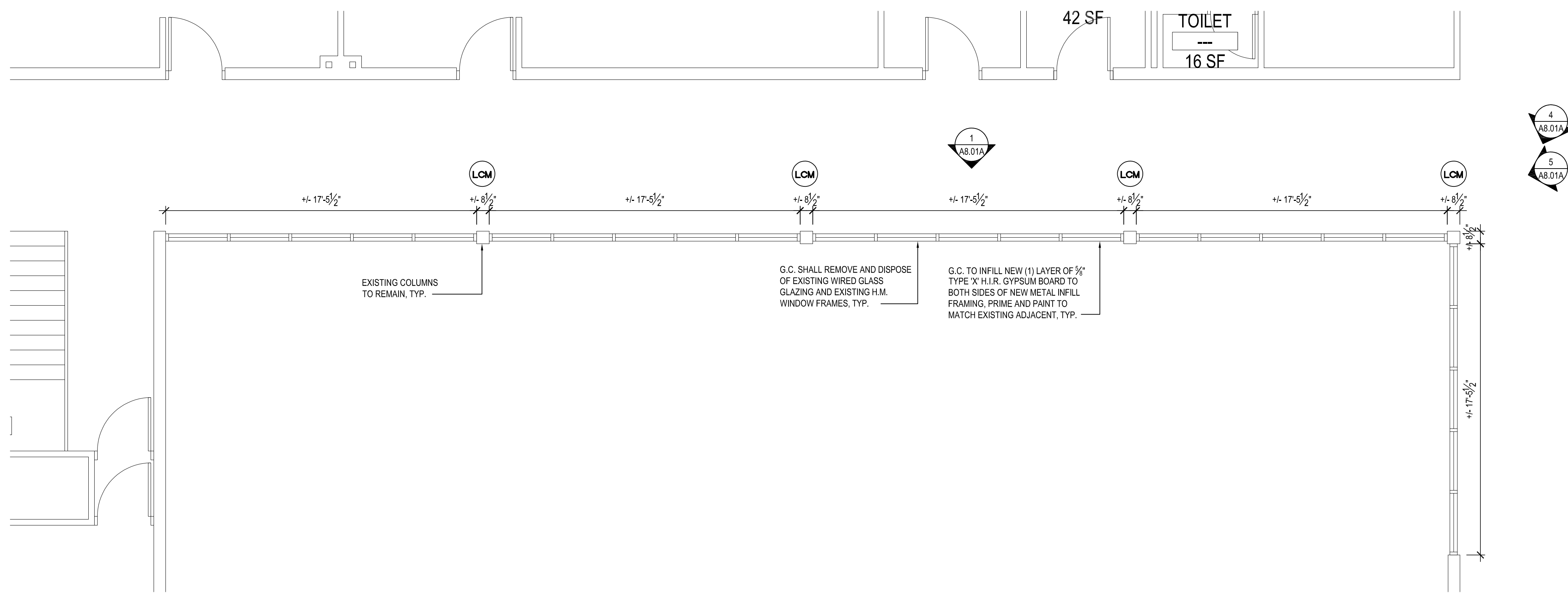
1 TYPICAL UPPER GYM WALL REPLACEMENT ELEVATION

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



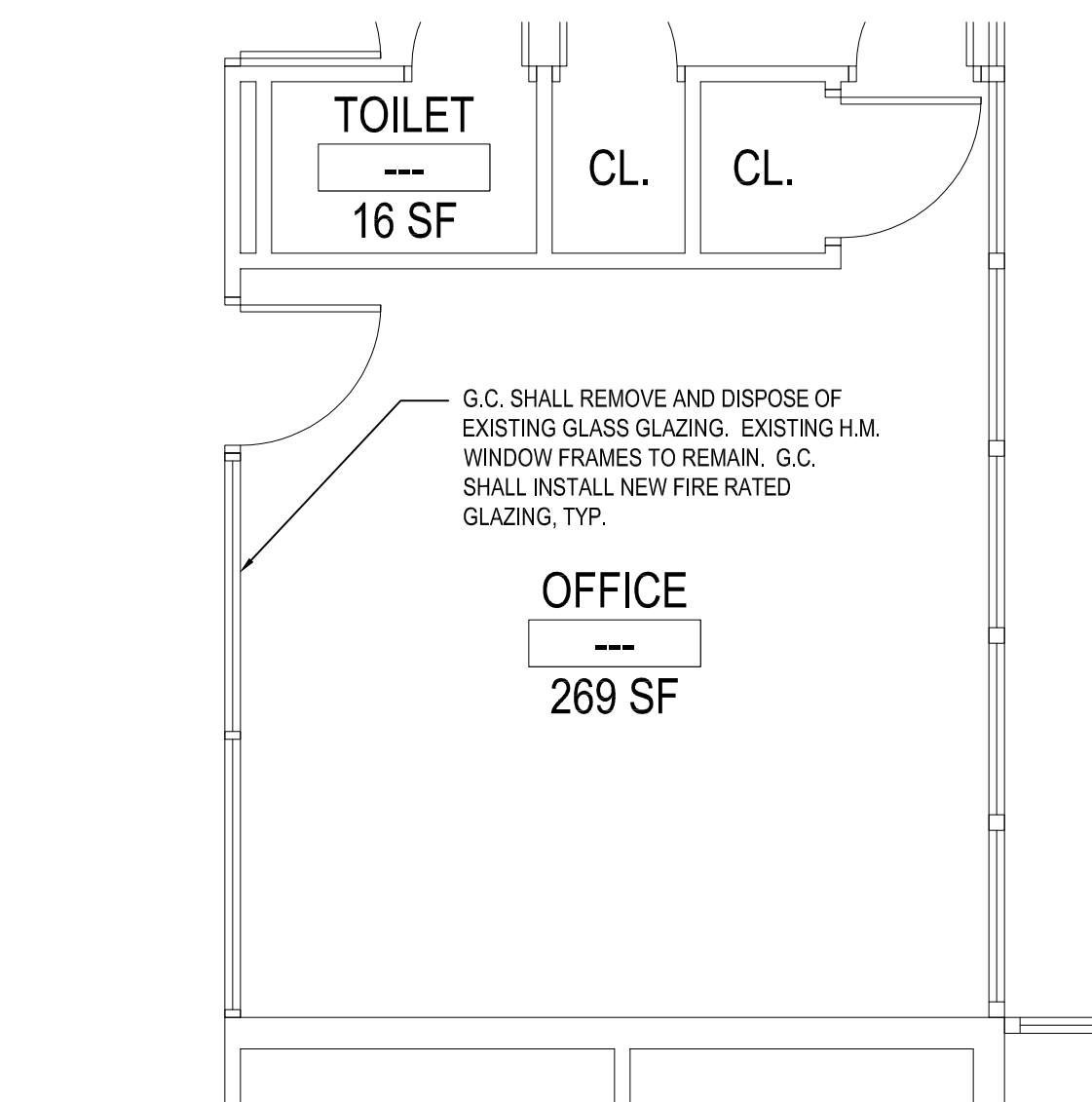
4 UPPER GYM WALL PHOTO

SCALE: N.T.S.



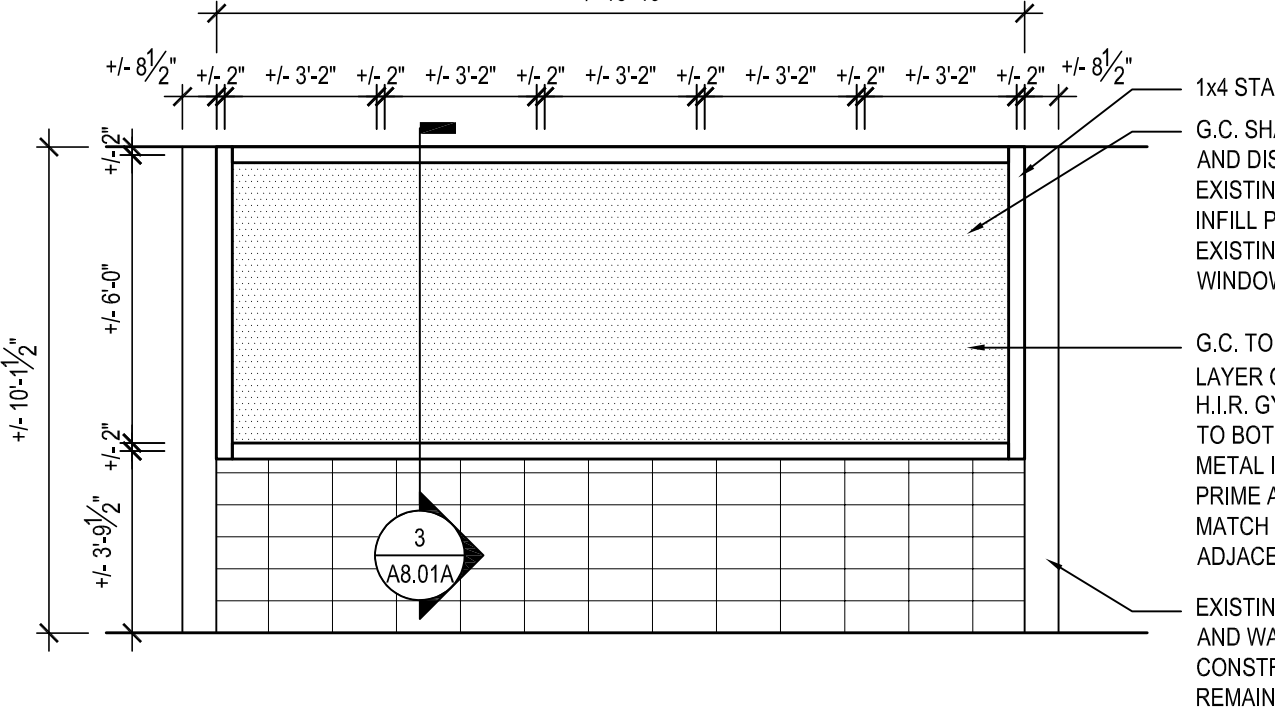
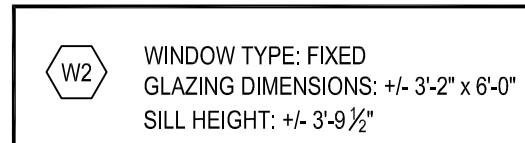
B PROPOSED WINDOW REPLACEMENT PLAN

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



C PROPOSED GLAZING REPLACEMENT PLAN

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



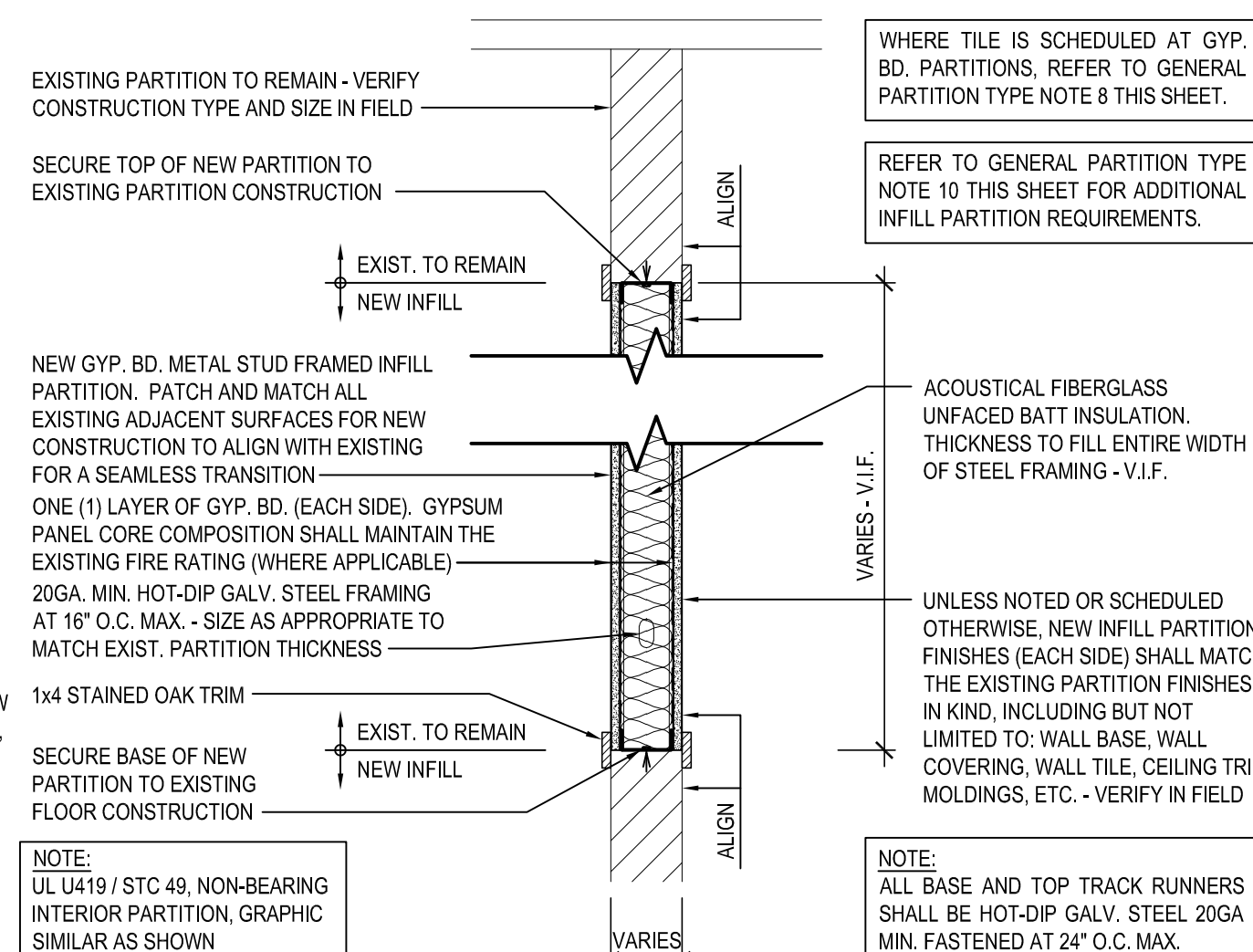
2 TYPICAL LOWER GYM PANEL REPLACEMENT ELEVATION

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



5 UPPER GYM WALL PHOTO

SCALE: N.T.S.



3 GYP. BD. METAL STUD INFILL PARTITION

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN FIELD



6 LOWER GYM WALL PHOTO

SCALE: N.T.S.

## LEAD CONTAINING NOTES

CONTRACTOR SHALL NOTE THAT LEAD PAINT EXISTS ON THE EXISTING LOWER LEVEL. LEAD-CONTAINING MATERIALS IDENTIFIED ABOVE SHOULD BE CONSIDERED LEAD CONTAINING IN THE AREAS INDICATED AS WELL AS WHERE EVER THEY EXIST THROUGHOUT THE STRUCTURE.

DESIGNATED KEYNOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO PRE CONSTRUCTION LEAD MATERIALS INSPECTION, SAMPLING REPORT, AND LEAD WORK SAFE PLAN SPECIFICATION 02090 FOR ABATEMENT PROCEDURES AND LEGAL, REMOVAL AND DISPOSAL REQUIREMENTS. REFER TO ENVIRONMENTAL CONSULTANTS' REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL FOR LEAD-BASED PAINT INSPECTION DATA & APPENDIX C FOR LEAD XRF TEST RESULTS FOR PROJECT-SPECIFIC DATA.

## GENERAL PARTITION TYPE NOTES:

- ALL PARTITIONS SHALL EXTEND TO UNDERSIDE OF A FLOOR SLAB OR ROOF DECK UNLESS OTHERWISE NOTED.
- AT ALL PARTITIONS THAT ARE DESIGNATED TO BE FIRE RATED PARTITIONS, PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT AT TOPS OF PARTITIONS; AT ALL PENETRATIONS THROUGH RATED PARTITIONS, AND FIRE SHING JOINT FILLER AT PARTITION TO SLAB/DECK JUNCTION.
- REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF ALL FIRE RATED PARTITIONS/ASSEMBLIES AND ADDITIONAL FIRE RATING INFORMATION.
- ALL PARTITIONS SHALL BE FINISHED AS SCHEDULED. ALL FINISHES SHALL BE CONTINUOUS AT ALL PARTITION FACES UNLESS NOTED OTHERWISE. REFER TO A9-SERIES FOR ADDITIONAL FINISH INFORMATION.
- ALL NEW PARTITIONS SHALL BE PREPARED, PRIMED AND PAINTED, PER SPECIFICATION SECTION 09900.
- REFER TO THE PROJECT MANUAL FOR CONTROL AND EXPANSION JOINT REQUIREMENTS FOR ALL MASONRY WALL CONSTRUCTION, GYP. BD. WALL CONSTRUCTION, GYP. BD. LAMINATION, AND PLASTER SURFACING.
- REFER TO SPECIFICATIONS FOR GYPSUM BOARD TYPE DESIGNATIONS AND APPLICABLE LOCATIONS (GYP. BD. TYPE I / TYPE II).
- WHERE METAL STUD FRAMED PARTITIONS ARE SCHEDULED TO RECEIVE NEW TILE FINISHES; THE CONTRACTOR SHALL PROVIDE GYPSUM WALL BOARD TYPE II AT THE LOCATIONS TO RECEIVE TILE (ONLY) IN LIEU OF THE SCHEDULED GYP. BD. TYPE FOR A SUITABLE WALL FINISH SUBSTRATE. REFER TO A-9 SERIES FOR ADDITIONAL INFORMATION.
- ALL NEW OPENINGS IN METAL STUD PARTITIONS, INCLUDING BUT NOT LIMITED TO DOORS AND WINDOWS, SHALL RECEIVE THE APPROPRIATE HEADER AS DESIGNED BY THE LIGHT GAUGE FRAMING MANUFACTURER.
- WHERE EXISTING OPENINGS IN EXISTING PARTITIONS ARE SCHEDULED TO BE INFILLED, THE NEW INFILL CONSTRUCTION SHALL MAINTAIN AND MATCH THE EXISTING PARTITION'S FIRE RATINGS FOR CONTINUITY OF FIRE AND SMOKE PROTECTION - CONTRACTOR TO VERIFY IN FIELD (1-HR MIN. RATING AT CORRIDORS). REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL INFORMATION.
- AT ALL LOCATIONS WHERE EXISTING PARTITIONS ARE SCHEDULED TO BE PATCHED OR INFILLED, ALL NEW CONSTRUCTION FINISHES SHALL MATCH THE EXISTING ADJACENT SURFACES IN KIND - CONTRACTOR TO V.I.F.
- AT ALL LOCATIONS WHERE NEW WORK IS SCHEDULED, THE CONTRACTOR SHALL PROVIDE SOLID BLOCKING, LATERAL BRACING, AND ADDITIONAL FRAMING AS REQUIRED TO SECURE NEW PARTITIONS TO THE STRUCTURE ABOVE AND TO ACCOMMODATE ALL NEW WALL MOUNTED FIXTURES, ACCESSORIES, EQUIPMENT, ETC.
- WHERE PARTITION TYPES ARE NOT SPECIFICALLY IDENTIFIED IN PLAN, IT IS THE INTENT THAT THE GRAPHICALLY INDICATED WALL TYPE SHALL BE CONTIGUOUS UNTIL INTERRUPTED BY ANOTHER SPECIFIED WALL TYPE.

## PAINT TYPES

TYPE P1: PAINT BY SHERWIN WILLIAMS. DTM ALKO SEMI-GLOSS ENAMEL. COLOR: TO BE SELECTED BY ARCHITECT (H.M. WINDOW FRAMES AND GYP. BD.)

NOTE: ALL DIMENSIONS GIVEN ARE +/- AND ARE TO BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION OF NEW PANELS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.

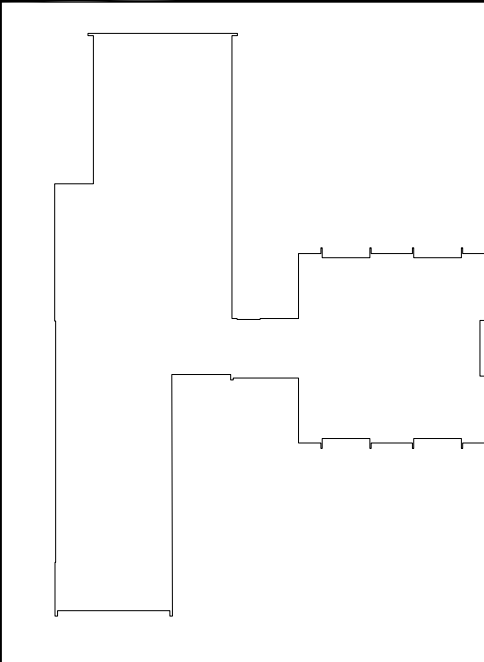
## DEMOLITION and REMOVAL NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C., AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR. NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND/OR RECONSTRUCTION.
- ALL OPENINGS IN EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE PATCHED AS REQUIRED AND MASONRY TOOTHED-IN TO MATCH ADJACENT.
- G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
- G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.
- NOTED WALL REMOVALS SHALL INCLUDE ALL DOORS, WINDOWS AND FRAMES WHERE SHOWN.

REV.	DATE	ITEM

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## KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
HIGHVIEW ELEMENTARY SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT  
DRAWING BY: S.E.S.  
CHECK BY: J.W.W.

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SED No:	66-04-07-06-0-002-013
DISTRICT:	GREENBURGH CSD
PROJECT:	PH I - DW CAP IMPROVEMENTS HIGHVIEW E.S.
DWG TITLE:	DEMO AND PROPOSED WINDOWS AND INFILL PANELS
SCALE:	AS NOTED
DATE:	MAY 2022
BID PICK-UP:	MAY 27, 2022
FILE NO:	21-288

A8.01A



SCALE: 1/32" = 1'-0"

NEW DUCTWORK TO BE INSTALLED

NEW SQUARE ELBOW W/ TURNING VANES

NEW DUCT TO DROP DOWN

NEW DUCTWORK TO RISE UP

NEW VOLUME DAMPER IN DUCT

NEW FUSIBLE LINK 2 HR. FIRE DAMPER

CONNECTION POINT OF NEW WORK TO BE DONE

CONNECTION POINT OF DEMOLITION WORK TO BE DONE

NEW HARD TO FIRE RATED FLEX DUCT TRANSITION

NEW DUCT LINER IN DUCTWORK

NEW 4-WAY SUPPLY AIR DIFFUSER

NEW RETURN AIR GRILLE

NEW SUPPLY DIFFUSER TAG #

NEW RETURN GRILLE TAG #

NEW FLEX DUCT

DEMOLITION WORK TO BE DONE

NEW DDC AVERAGE TEMPERATURE SENSOR ON WALL

1. REMOVE A RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE NEW WORK DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON THE EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
2. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED. COORDINATE WITH ALL EXISTING WORK. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON THE EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
3. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
4. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
5. COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / REPAIR ALL DAMAGE TO EXISTING STRUCTURE, ROOF, FLOORS, ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE / SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
6. IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATION OF THE PLANT. THE CONTRACTOR SHALL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST ANY DAMAGE TO OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS CONTRACT.
7. THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
8. CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
9. DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
10. PROVIDE LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SATED FOR DEMOLITION.
11. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. DISBURSEMENT OF FEES USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT. MERV8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
12. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
13. PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
14. THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M/C) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
15. SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER, DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CHANGE IN EQUIPMENT OR FEES USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT. MERV8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
16. EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH WHITE COLOR, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT, UNIT VOLTAGE, & ANY INTERLOCK REQUIREMENTS. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
17. "ATTIC STOCK" UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE ALL STOCK OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT. MERV8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
18. MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE PROJECT.
19. MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL INCLUDE THE MAKE, MODEL, SERIAL NUMBER, VOLTAGE, AMPERAGE, CAPACITY, AND RECOMMENDED REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHALL BE PROVIDED IN A PRINTED DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PIECE OF EQUIPMENT USED.

CONTROLS SUBCONTRACTOR, UNDER  
CONTRACT TO MECHANICAL CONTRACTOR

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

1. AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
  - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED)
  - AT INLET & OUTLET OF EACH HYDROPHILIC BOLLER, CHILLER OR COOLING TOWER.
  - AT INLET & OUTLET OF EACH HYDROPHILIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
2. AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
  - AT SUCTION & DISCHARGE OF EACH PUMP.
  - FOR EACH MAKEUP WATER LINE.
  - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
  - AT ADDITIONAL HIGH POINT OF ALL HYDROPHILIC PIPING SYSTEMS.
  - AT ALL EXPANSION / COMPRESSION TANKS.

1. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRAONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" RH-Y-VENT OR EQUIVALENT.
2. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT IT-IN.
3. MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COCK OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIL VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

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

1. PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891 AND IN CONFORMANCE WITH SMACNA: SPECIFICATIONS.
2. IF A DUCT ELBOW IS SHOWN TO BE RADIOUS, THEN RADIOUS ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS SHALL NOT BE SUBSTITUTED WHERE RADIOUS ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANGES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
3. PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO AIR DISTRIBUTION UNITS. IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT WORK SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 05891 & 05200 FOR FURTHER INFORMATION.
4. WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
5. MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING PLUG AND HANDLE PRIOR TO AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
6. MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

1. MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDROIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15900 & 15910 FOR FURTHER DETAILS.

2. UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING. THE SUBMITTAL OF SUCH TESTING REPORT SHALL BE SUBJECT TO A RANDOM SELECTION OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.

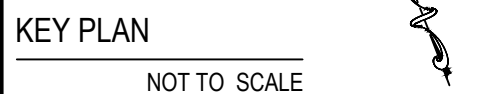
3. IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 1% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL MEASUREMENTS WILL BE RE-TESTED WITHIN 14 DAYS OF THE ORIGINAL REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE REAUGUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE. AT NO ADDITIONAL COST TO THE CONTRACTOR WILL THE CONTRACTOR BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

M.C. = MECHANICAL CONTRACTOR  
C.C. = CONTROLS CONTRACTOR  
R.C. = CERTIFIED ROOFING CONTRACTOR

P.C. = PLUMBING CONTRACTOR  
E.C. = ELECTRICAL CONTRACTOR

**NOTICE**

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**GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
HIGHVIEW ELEMENTARY SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY**

PROJECT

#### NOTICE

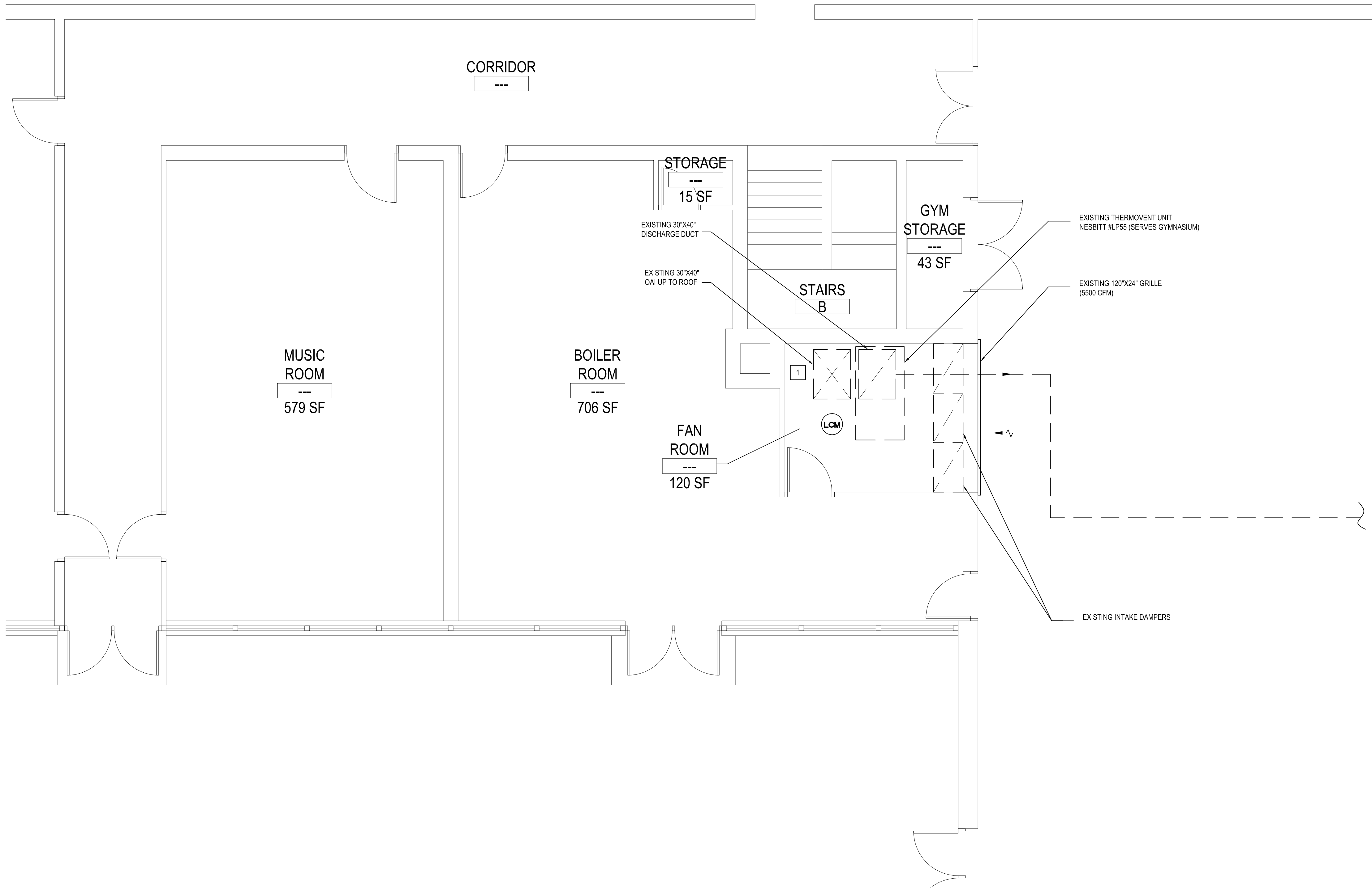
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DISTRICT GREENBURGH CSD

SCALE:	AS NOTED
DATE:	MAY 2022
BID PICK-UP:	MAY 27, 2022
FILE No:	21-288

M0.01A



- NOTES:
- 1 REPLACE AUTOMATIC OAI DAMPER AND RETURN PLENUM DAMPER WITH NEW TO MATCH EXISTING. REPLACE PNEUMATIC CONTROLS WITH NEW TO MATCH EXISTING. NEW OAI DAMPER TO BE OPENED TO BRING IN MIN. REQUIRED VENTILATION DURING ALL SEASONS. V.I.F EXISTING DAMPERS SIZES AND EXACT LOCATION
  - 2 CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR

**LEAD CONTAINING NOTES**

**LCM** CONTRACTOR SHALL NOTE THAT LEAD PAINT EXISTS ON THE EXISTING LOWER LEVEL - LOBBY/ GYMNASIUM METAL DOOR FRAMES, METAL GLASS PARTITIONS, AND METAL KICKS (GREEN/ WHITE). REFER TO SPECIFICATIONS FOR PROTOCOL ON REMOVALS AND IMPACT ON NEW WORK SCOPE.

NOTES: MATERIALS IDENTIFIED ABOVE SHOULD BE CONSIDERED LEAD CONTAINING IN THE AREAS INDICATED AS WELL AS WHERE EVER THEY EXIST THROUGHOUT THE STRUCTURE.

DESIGNATED KEYNOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO PRE CONSTRUCTION LEAD MATERIALS INSPECTION, SAMPLING REPORT, AND LEAD WORK SAFE PLAN SPECIFICATION (2000) FOR ABATEMENT PROCEDURES AND LEGAL REMOVAL AND DISPOSAL REQUIREMENTS. REFER TO ENVIRONMENTAL CONSULTANTS REPORT FOR PROJECT #21819, CONTAINED WITHIN THE PROJECT MANUAL FOR LEAD-BASED PAINT INSPECTION DATA & APPENDIX C FOR LEAD XRF TEST RESULTS FOR PROJECT-SPECIFIC DATA.

MECHANICAL LOWER FLOOR PART PLAN

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

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
HIGHVIEW ELEMENTARY SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE: MECHANICAL LOWER FLOOR PART PLAN

DRAWING BY: DS  
CHECK BY: DS

NOTICE

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ENGINEERS

244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205  
PATCHOGUE, NEW YORK 11772 | ALBANY, NEW YORK 12205  
T: 631.475.0349 | T: 518.621.7650  
F: 631.475.0361 | F: 518.621.7655

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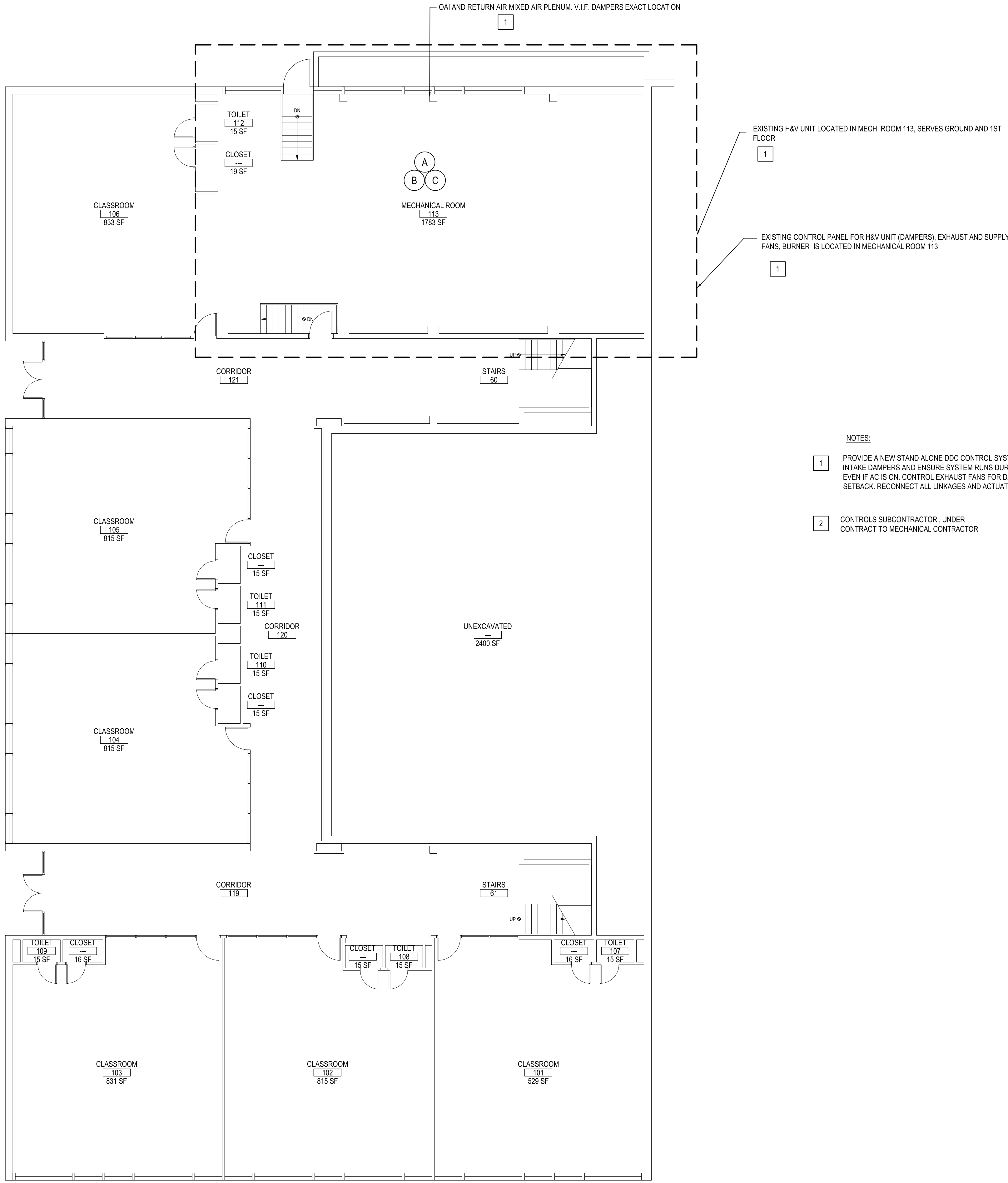
DISTRICT: GREENBURGH CSD

PROJECT: PH. I - DW CAP. IMPROVEMENTS  
HIGHVIEW E.S.

DWG TITLE: MECHANICAL LOWER FLOOR  
PART PLAN

SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-288

M1.01A



MECHANICAL GROUND FLOOR PLAN

SCALE: 1/32" = 1'-0"

GENERAL NOTES

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

PRE-ABATEMENT WORK NOTES:

- THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

POST-ABATEMENT WORK NOTES:

- THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.

ABATEMENT NOTES

- REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO ORIGINAL FIBERGLASS PIPE INSULATION, WHITE. AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN BOILER ROOM. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
- REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ROPE INSULATION TO DUCT HATCH, WHITE, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN BOILER ROOM. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
- REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING MASTIC TO FIBERGLASS DUCT INSULATION CLAMPS, BROWN, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN BOILER ROOM. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.

NOTES:

REFER TO ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIROSCIENCE FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOLS REQUIRED.

FIRE STOPPING NOTES

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

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
  - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
  - AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
  - AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
  - AT SUCTION & DISCHARGE OF EACH PUMP.
  - FOR EACH MAKEUP WATER LINE.
  - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
  - AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
  - AT ALL EXPANSION / COMPRESSION TANKS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

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

TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE RE-REQUESTED & TESTED. NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

LEAD CONTAINING NOTES

NONE OF THE BUILDING MATERIALS AFFECTED BY THE SCOPE OF WORK WERE FOUND TO BE LEAD CONTAINING. PLEASE SEE TEST RESULTS AND REPORT BY ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED LEAD CONTAINING CONSTRUCTION MATERIALS.

CONTRACTOR ABBREVIATIONS:

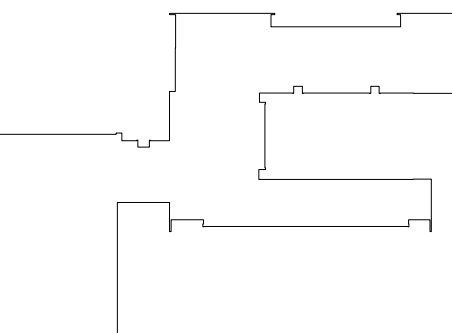
M.C. = MECHANICAL CONTRACTOR  
C.C. = CONTROLS CONTRACTOR  
R.C. = CERTIFIED ROOFING CONTRACTOR

P.C. = PLUMBING CONTRACTOR  
E.C. = ELECTRICAL CONTRACTOR

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
LEE F. JACKSON ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

DWG TITLE

DRAWING BY: DS  
CHECK BY: DS

NOTICE

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BBS

ARCHITECTS  
LANDSCAPE ARCHITECTS  
ENGINEERS

244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205  
PATCHOGUE | ALBANY  
NEW YORK 11772 | NEW YORK 12205  
T. 631.475.0349 | T. 518.621.7650  
F. 631.475.0361 | F. 518.621.7655

www.bbsarchitects.com

SED No: 66-04-07-06-0-006-011

DISTRICT: GREENBURGH CSD

PROJECT: PH. I - DW CAP. IMPROVEMENTS  
LEE F. JACKSON E.S.

DWG TITLE: MECHANICAL GENERAL  
NOTES AND SYMBOLS

SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

FILE No: 21-289

M0.01B

## GENERAL CONSTRUCTION NOTES

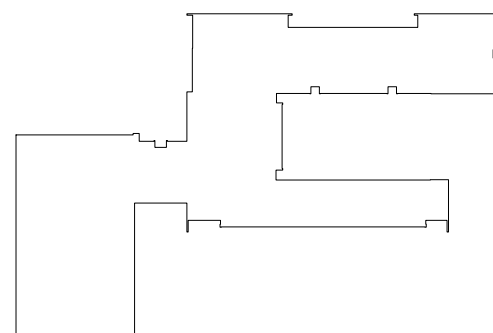
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
2. THE VOLTAGE CHARACTERISTIC OF THIS SCHOOL IS 120/208VAC, 4 WIRE, 3PH, GROUNDING NEUTRAL, WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL. ANY FIELD CONDITION FOUND AFTER BID APPROVAL WHICH HAMPERS AND/OR PREVENTS ANY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR. THE DIVISION 16 CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. ALL NEW ELECTRICAL MATERIAL AND EQUIPMENT SHALL CONFORM TO THE STANDARDS AND BEAR THE INSPECTION LABEL OF THE UNDERWRITERS LABORATORIES AND SHALL BE APPROVED FOR USE BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.
7. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. CONTRACTOR TO COORDINATE ALL LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER. THE EC IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE EC SHALL REFER TO THE MECHANICAL EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN APPROVED ELECTRICAL INSPECTION CERTIFICATE FROM THE LOCAL AHJ AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. SUBMIT A COPY OF THIS CERTIFICATE TO THE OWNER.
11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN THE PROJECT MANUAL.
12. IF ADDITIONAL POLE POSITIONS ARE REQUIRED FOR NEW CIRCUITS IN EXISTING PANELS SERVICING RENOVATED AREAS, REMOVE (3) ADJACENT 1" POLE BREAKERS PROVIDE AND INSTALL 3P, 60A BREAKER FOR SUB FEED TO A SURFACE MOUNTED 100A, 3PH, 18 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL. EACH WITH A 1P, 20A BREAKER. PROVIDE (3) 1P, 20A BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3W + 1N(N) + 1P(1G) IN 1".
13. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES UPON COMPLETION. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NORMALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ALL TRADES FOR THE DURATION OF THE PROJECT. SERVICE SHALL BE SUPPLIED TO CONTRACTOR'S CONSTRUCTION TRAILERS WHERE SUCH IS REQUESTED. USE THE EXISTING POWER PANELS FOR SUCH SUPPLY. POWER COSTS WILL BE PAID BY THE OWNER. ALL CONSTRUCTION POWER RECEPTACLES SHALL BE GFI PROTECTED.
15. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES FROM DAMAGES DURING CONSTRUCTION. THIS INCLUDES DEVICES WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLES, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
16. THE INDICATED SOURCE OF EXISTING CIRCUITS MAY NOT BE KNOWN OR HAS NOT BEEN VERIFIED. IT IS THE DIVISION 16 CONTRACTOR'S RESPONSIBILITY TO TRACE OUT, LOCATE AND VERIFY THE DISCONNECTING MEANS OF EXISTING CIRCUIT(S) TO BE IMPACTED BY THE WORK. SAFE OFF THE CIRCUIT(S) AS REQUIRED TO SAFELY PERFORM THE WORK, AND RE-ENERGIZE UPON COMPLETION. UPDATE PANEL DIRECTORIES UPON COMPLETION.
17. WHERE EXISTING FIRE ALARM SYSTEMS ARE MODIFIED DURING THE COURSE OF THE PROJECT, PROVIDE OWNER WITH UPDATED COMPLETION RECORD DOCUMENTATION PER NFPA 72, ARTICLE 10.18. INCLUDE COPY OF UPDATED SITE SPECIFIC SOFTWARE. ANY ADDITIONAL DEVICES SHALL BE MAPPED INTO THE SYSTEM WITH THE APPROPRIATE ADDRESSES/LABELS.
18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. NOTE ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE. UTILIZING CEILING FRAMING ALONE IS NOT ACCEPTABLE. NEW LIGHTING FIXTURES/ OTHER THAN THEATRICAL EQUIPMENT SHALL NOT BE DANGY CHAINED. RE-USE OF AN EXISTING LIGHTING OUT INCLUDES HOME RUN WIRING OR WIRING UP TO THE SWITCH. ANY WIRING DOWNSTREAM OF THE SWITCH IS SUBJECT TO REPLACEMENT/REARRANGEMENT. EC SHALL ALLOW FOR THIS IN THE BID PRICE.
19. ALL WIRING TO BE 1P12+1P12(N)+1P12(G)-3/4" EMT, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
20. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. ALL DEVICES & CONDUITS ON NEW CONSTRUCTION MUST BE RECESSED FOR EXISTING MECHANICAL/WORK SPACES-CONDUITS MAY BE SURFACE MOUNTED. EXISTING PUBLIC/FINISHED AREAS- CONDUITS SHALL BE CONCEALED WHEREVER POSSIBLE (IN HUNG CEILINGS, VOIDS/CHASES, FLOOR BELOW OR BEHIND WALLS) ALL WIRING THAT CANNOT BE CONCEALED IN MUST BE RUN IN FINISHED SURFACE RACEWAY SUCH AS WIREMOLD, COLOR PER ARCHITECT. USE OF ADHESIVE IS PROHIBITED. SURFACE RACEWAY MUST BE SECURED USING MECHANICALLY FASTENED CLIPS.
21. ANY LIGHT FIXTURES INSTALLED IN GYMNASIUMS OR OTHER AREAS SUBJECT TO IMPACT OR PHYSICAL DAMAGE SHALL BE MOUNTED WITH SAFETY CHAINS AND SECURED TO STRUCTURE.
22. SEE SPEC. SECTION 16100 BASIC MATERIALS AND METHODS FOR COMPLETE NOTES ON INSTALLATION, MISCELLANEOUS MATERIALS AND ELECTRICAL DEVICES.

## DRAWING NOTES:

1. ADD COMBO EXIT/EMERGENCY LIGHT TO MECHANICAL ROOM SURE-LITE BAPC7R5Q OR EQUAL. WIRE TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. COORDINATE LOCATION WITH DISTRICT.
2. ADD EMERGENCY LIGHT TO KITCHEN. SURE-LITE BMODEL CUL-LED OR EQUAL. WIRE TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. COORDINATE LOCATION WITH DISTRICT.

## NOTICE

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## KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
LEE F. JACKSON ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

DWG TITLE

DRAWING BY: DG  
CHECK BY: ---

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ARCHITECTS  
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ENGINEERS

244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205  
PATCHOGUE | ALBANY  
NEW YORK 11772 | NEW YORK 12205  
T. 631.475.0349 | T. 518.621.7650  
F. 631.475.0361 | F. 518.621.7655

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SED No: 66-04-07-06-0-006-011

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
LEE F. JACKSON E.S.

DWG TITLE: ELECTRICAL NOTES & PLANS

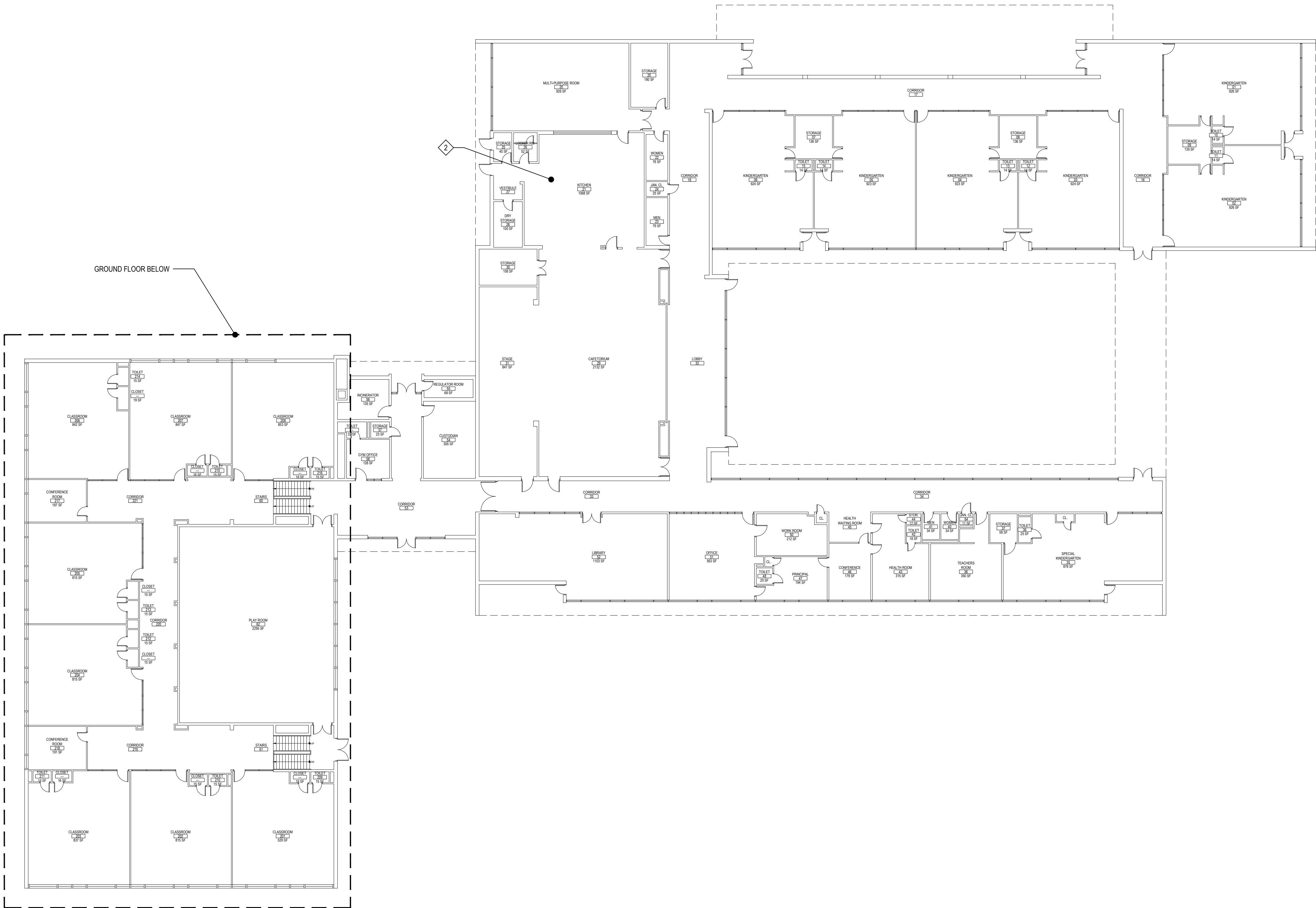
SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

FILE No: 21-289

E1.01B



## 1ST FLOOR PLAN

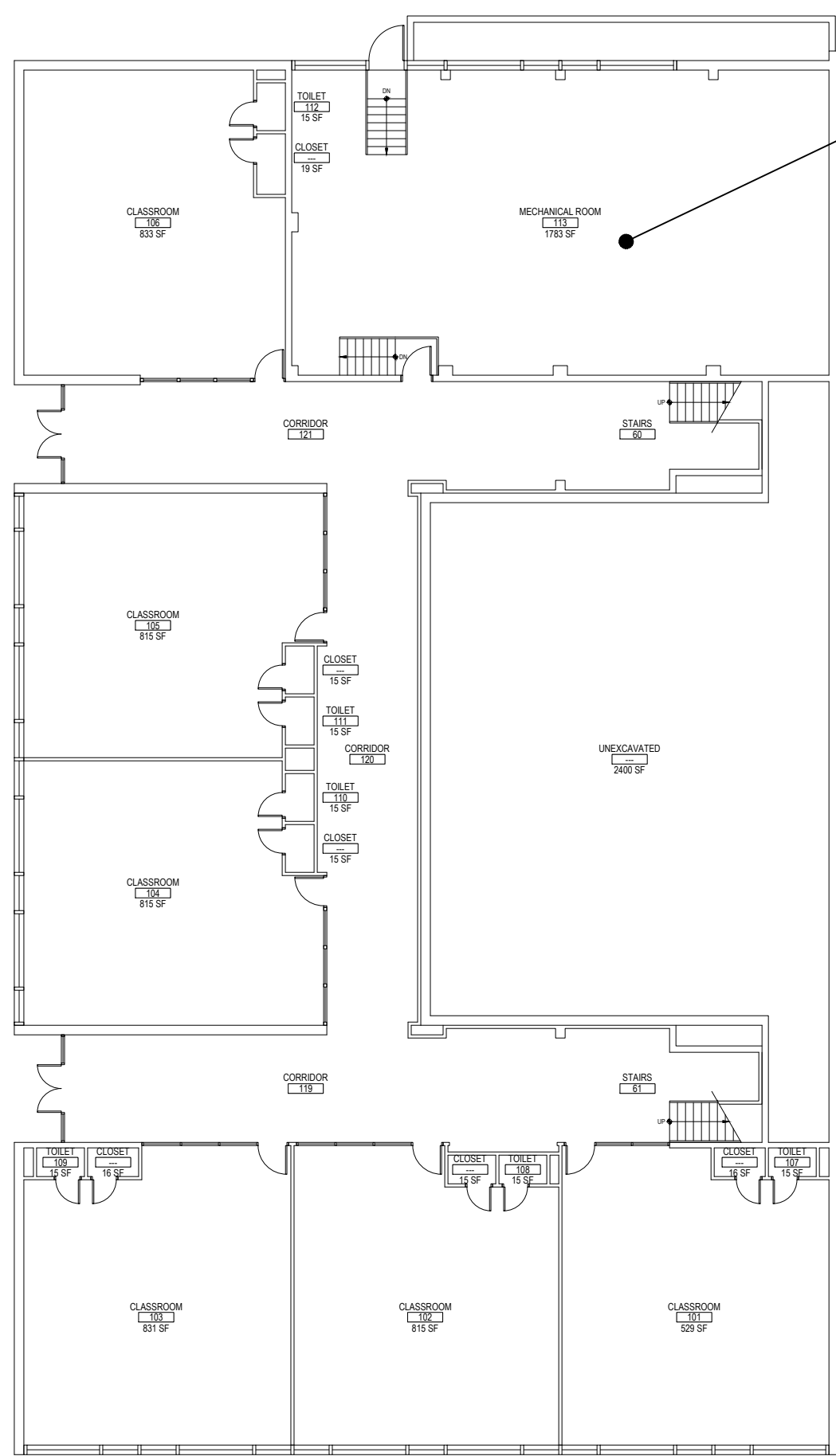
SCALE: 1/16" = 1'-0"

## FIRE STOP NOTES

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.
2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-610 ELASTOMERIC SEALANT, IP-806 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-655 TROWEL-ABLE COMPOUND, AS SUITABLE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

## NOTES:

1. IN LOCATIONS WHERE SIMILAR DEVICES ARE MOUNTED AT THE SAME HEIGHT, DEVICES SHALL BE PROPERLY "GANGED" AND SHALL HAVE A SINGLE COVER PLATE.
2. IN LOCATIONS WHERE DIFFERENT DEVICES ARE MOUNTED AT DIFFERENT HEIGHTS WITHIN FOUR FEET OF ONE ANOTHER, DEVICES SHALL BE MOUNTED SUCH THAT THEY HAVE A COMMON CENTERLINE. IF THERE ARE THREE OR MORE DEVICES, THE CONTRACTOR SHALL REQUEST A DETAIL FROM THE ARCHITECT.
3. 80" TO BOTTOM, OR AT SHALLOW CEILING INSTALLATIONS, WITHIN 6" OF FINISHED CEILING, VERIFY WITH ENGINEER.
4. IN TOILET ROOMS WITH BACK SPLASH AT VANITY, MOUNT CENTER AT 4" ABOVE BACK SPLASH. IF NO BACK SPLASH, MOUNT 4" ABOVE COUNTER. IF NO COUNTER, MOUNT AT 42" AFF COORDINATE WITH ARCHITECTURAL PLANS. REFER TO ELEVATIONS AND FURNITURE PLANS.
5. RECEPTACLE IN PLAN WITH THE NOTATION "AC" INDICATES MOUNTING HEIGHT OF 4" ABOVE COUNTER OR 4" ABOVE BACK SPLASH. COORDINATE WITH ARCHITECTURAL PLANS. REFER TO ELEVATIONS AND FURNITURE PLANS.
6. MOUNT AT 7'-6" ABOVE CLOSEST FLOOR LEVEL (LANDINGS, STEPPED FLOORS, ETC.) UNLESS OTHERWISE NOTED.



## GROUND FLOOR PLAN

SCALE: 1/16" = 1'-0"

NOTE: SYMBOLS AND ABBREVIATIONS ON THIS DRAWING ARE FOR REFERENCE ONLY, AND MAY NOT BE USED IN THE FOLLOWING DOCUMENTS.

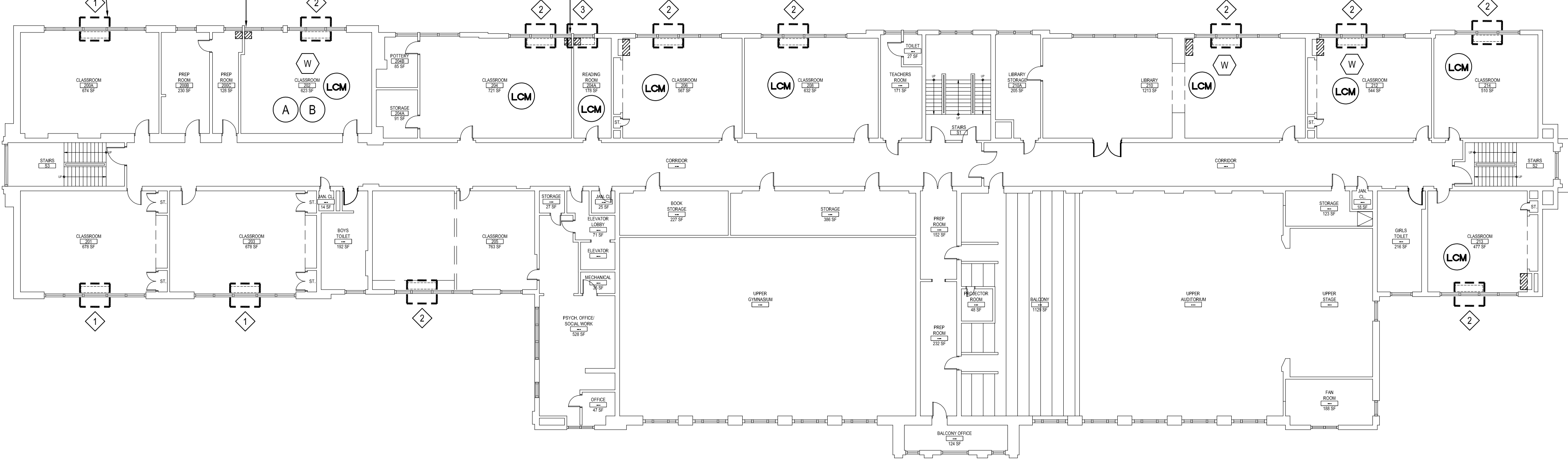
## 1 DEVICE MOUNTING HEIGHT DETAIL

SCALE: N.T.S.

LOCATION OF NEW OR MODIFIED LOUVER, SEE M-SERIES DRAWINGS FOR SIZING AND ADDITIONAL INFORMATION, TYP.

G.C. TO REMOVE EXISTING LOUVER, SEAL AND INFILL WITH BRICK AND BRICK VENEER TO MATCH EXISTING ADJACENT MASONRY, TYP. OF 2. REMOVE EXISTING MASONRY AS REQUIRED TO REMOVE LOUVER, TOOTH IN NEW MASONRY AS NECESSARY.

G.C. TO REMOVE EXISTING LOUVER, SEAL AND INFILL WITH BRICK AND BRICK VENEER TO MATCH EXISTING ADJACENT MASONRY, TYP. OF 2. REMOVE EXISTING MASONRY AS REQUIRED TO REMOVE LOUVER, TOOTH IN NEW MASONRY AS NECESSARY.



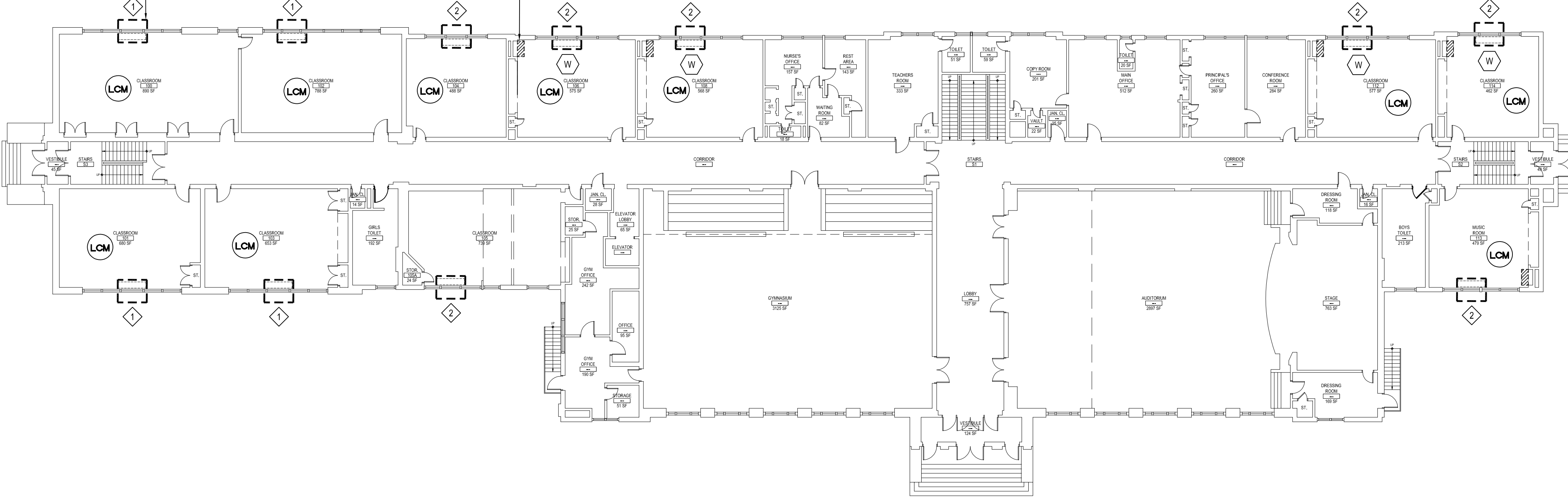
### MASONRY RECONSTRUCTION SECOND FLOOR KEY PLAN

NOTE:

LOCATION OF NEW OR MODIFIED LOUVER, SEE M-SERIES DRAWINGS FOR SIZING AND ADDITIONAL INFORMATION, TYP.

G.C. TO REMOVE OLD EXISTING U.V. AND PATCH EXISTING OPENING. CLOSE OPENING WITH 3" METAL STUD AND 1/2" GYP. BOARD FINISHED FLUSH AND PAINT TO MATCH EXISTING ADJACENT, TYP. FOR ALL LOCATIONS. SEE DETAIL 1/2A2.01C THIS SHEET FOR ADDITIONAL INFORMATION.

SCALE: 1/16" = 1'-0"



### MASONRY RECONSTRUCTION FIRST FLOOR KEY PLAN

NOTE:

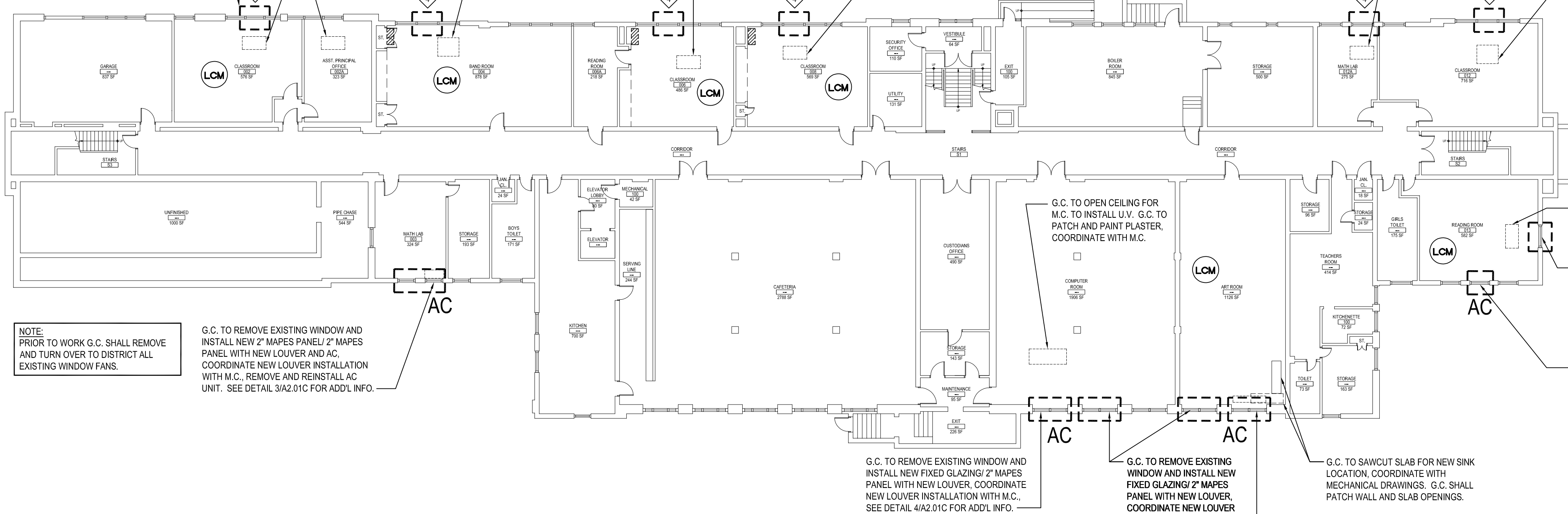
LOCATION OF NEW LOUVER, SEE M-SERIES DRAWINGS FOR SIZING AND ADDITIONAL INFORMATION, TYP.

G.C. TO OPEN CEILING FOR M.C. TO INSTALL U.V. G.C. TO PATCH AND PAINT PLASTER, COORDINATE WITH M.C.

G.C. TO OPEN CEILING FOR M.C. TO INSTALL U.V. G.C. TO PATCH AND PAINT PLASTER, COORDINATE WITH M.C.

G.C. TO OPEN CEILING FOR M.C. TO INSTALL U.V. G.C. TO PATCH AND PAINT PLASTER, COORDINATE WITH M.C.

SCALE: 1/16" = 1'-0"



### MASONRY RECONSTRUCTION BASEMENT KEY PLAN

NOTE:

SCALE: 1/16" = 1'-0"

### U.V. LOUVER LEGEND

- NEW U.V.'S BY M.C. EXISTING 4'-34"X8' LOUVER IN MASONRY TO BE EXPANDED TO ACCOMMODATE NEW 4'-48"X10' LOUVER. OPENING BY G.C. LOUVER BY M.C.
  - NEW U.V.'S BY M.C. G.C. TO CREATE NEW MASONRY OPENING FOR NEW 4'-48"X10' LOUVER. OPENING BY G.C. LOUVER BY M.C.
  - NEW U.V.'S BY M.C. G.C. TO REMOVE EXISTING LOUVER AND ADD NEW MASONRY BLOCK TO MATCH EXISTING ADJACENT IN EXCESS SPACE LEFT FROM NEW 4'-24"X10' LOUVER. OPENING BY G.C. LOUVER BY M.C.
  - NEW CEILING U.V.'S BY M.C. NEW LOUVERS IN EXISTING METAL PANELS ABOVE WINDOWS. LOUVER PROVIDED BY M.C., INSTALLED BY G.C. SEE DETAIL 2/2A2.01C FOR ADDL INFO.
- G.C. TO PATCH OPENING AT OLD U.V. LOCATION, COORDINATE WITH MECHANICAL DRAWINGS.
- EXISTING A.C. UNIT TO BE REMOVED AND REINSTALLED AS NECESSARY TO COMPLETE U.V. WORK.
- G.C. SHALL REMOVE AND DISPOSE OF EXISTING WINDOW SILL SHELVES FOR PROPER INSTALLATION OF NEW U.V.

### DEMOLITION NOTES

- CONTRACTOR SHALL REFER TO ABATEMENT SERIES DRAWINGS FOR ADDITIONAL SCOPE AND NOTES NOT SHOWN ON THESE DRAWINGS.
- ALL ABATEMENT, DEMOLITION, REMOVAL AND DISPOSAL SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. DISCONNECTS SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR, PLUMBING CONTRACTOR AND MECHANICAL CONTRACTOR. REFER TO M.E.P. SERIES DRAWINGS FOR COORDINATION AND ADDITIONAL GENERAL CONSTRUCTION DEMOLITION SCOPE DESCRIPTIONS.
- PRIOR TO THE START OF ANY DEMOLITION WORK THE CONTRACTOR SHALL COORDINATE A CONSTRUCTION DEBRIS REMOVAL PATH W/ OWNER.
- PRIOR TO THE START OF ANY DEMOLITION WORK THE CONTRACTOR SHALL HAVE CARTING CONTAINER(S) IN PLACE. FINAL DESIGNATION OF CONTAINER(S) IS TO BE COORDINATED W/ OWNER.
- PRIOR TO THE START OF ANY DEMOLITION WORK THE CONTRACTOR SHALL SAFE OFF ALL ELECTRICAL AND PLUMBING SERVICES NECESSARY TO PERFORM THE WORK OUTLINED IN THE DOCUMENTS. IT IS THE CONTRACTOR'S (G.C.) RESPONSIBILITY TO COORDINATE THESE ITEMS W/ THE ELECTRICAL AND PLUMBING CONTRACTORS.
- FLOORING DEMOLITION SCOPE SHALL INCLUDE ALL ABATEMENT, REMOVAL OF RUBBER/WOOD COVE AND BASE MOULDINGS, AND FLOORING DOWN TO EXISTING CONCRETE FLOORING.
- ALL HEAT AND SMOKE DETECTORS ARE TO BE PROPERLY COVERED THROUGHOUT THE PROJECTS DURATION. CONTRACTOR TO NOTIFY OWNER IF ANY WORK WILL INVOLVE THE INTERRUPTION OF ALARM SERVICE SO THAT THE SYSTEM CAN BE TAKEN OFF LINE DURING WORK HOURS AND PLACED BACK ONLINE UPON COMPLETION OF DAYS ACTIVITIES.
- ALL DOORS, AND HARDWARE SCHEDULED TO BE REMOVED ARE TO BE DISPOSED OF IN THEIR ENTIRETY. 'NO' MATERIAL IS TO BE TURNED OVER TO THE OWNER UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE CONTRACTOR (G.C.) IS RESPONSIBLE TO REVIEW AND COORDINATE ALL G.C. WORK W/ MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS UNDER THIS PROJECT.
- ALL GENERAL DEMOLITION WORK SHALL BE PERFORMED UNDER NEGATIVE PRESSURE WITH FILTERED POWER EXHAUST. NEGATIVE AIR SHALL PROVIDE A MINIMUM OF FOUR AIR CHANGES PER HOUR. ALL NEGATIVE AIR MACHINES AD EXHAUST DUCTING SHALL BE MONITORED REGULARLY BY THE CONTRACTOR TO ASSURE PROPER OPERATION.
- IT IS THE INTENT OF THIS DEMOLITION SCOPE TO REMOVE ALL FLOORING, WALLS, CEILINGS & DOORS (WHERE SHOWN DASHED), CASEWORK, WOOD TRIM/COVE, WALL MOUNTED TACK/HALK BOARDS, IN THEIR ENTIRETY TO ACCOMMODATE PROPOSED CONSTRUCTION AND FINISHES AS SHOWN HEREIN AND SPECIFIED.
- OWNER TO REMOVE ALL LOOSE FURNISHINGS AND STORED MATERIALS PRIOR TO START OF WORK.
- ALL DEMOLITION, REMOVAL AND DISPOSAL SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. DISCONNECTS SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR, PLUMBING CONTRACTOR AND MECHANICAL CONTRACTOR. REFER TO M.E.P. SERIES DRAWINGS FOR COORDINATION AND ADDITIONAL GENERAL CONSTRUCTION DEMOLITION SCOPE DESCRIPTIONS.
- G.C. SHALL SAWCUT WALLS, FLOORS, ROOF, ETC. UNLESS OTHERWISE NOTED. REFER TO CONSTRUCTION DOCUMENTS FOR LOCATIONS, DESCRIPTIONS AND RESPONSIBILITIES.
- G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C. OR E.C. PRIOR TO COMMENCEMENT.

NOTE:

THROUGHOUT BUILDING. BEFORE PROCEEDING WITH WORK, DISTRICT SHALL DISCONNECT/REMOVE AND STORE ALL WINDOW FANS. G.C. SHALL DO THE SAME WITH ANY WINDOW FANS THAT NEED TO MOVED IN ORDER TO COMPLETE WORK.

PRE-ABATEMENT WORK NOTES:

- THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

POST-ABATEMENT WORK NOTES:

- THE CONTRACTOR SHALL UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.

### ABATEMENT NOTES

- REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING 12"x12" FLOOR TILE, BLUE, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN ROOM #202. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
- REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING 12"x12" FLOOR TILE, RED, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN ROOM #202. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.

NOTE:

PRESUMED ASBESTOS CONTAINING PIPE INSULATION AND ASSOCIATED ELBOWS THROUGHOUT BUILDING NOT TO BE AFFECTED BY SCOPE OF WORK. REFER TO REPORT BY ENVIRONMENTAL CONSULTANTS, PROJECT #21819.

NOTES:

REFER TO ENVIRONMENTAL CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRE-CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECTED/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIRONMENTAL FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.

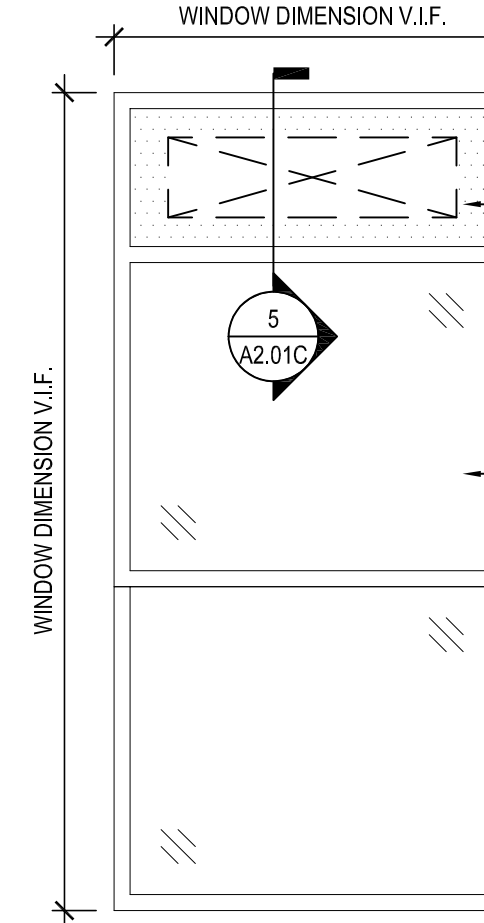
### LEAD CONTAINING NOTES

- CONTRACTOR SHALL NOTE THAT LEAD PAINT EXISTS ON EXISTING PLASTER WALLS, METAL UNIT VENTILATORS, METAL RADIATORS, BRICK WALLS, AND WOOD BASEBOARDS. LOCATIONS FOR LEAD CONTAINING MATERIALS CAN BE FOUND THROUGHOUT BUILDING BUT NOT LIMITED TO ROOMS #02, #04, #06, #08, #10, #12, #14, #16, #18, #20, #22, #24, #26, #28, #30, #32, #34, #36, #38, #40, #42, #44, #46, #48, #50, #52, #54, #56, #58, #60, #62, #64, #66, #68, #70, #72, #74, #76, #78, #80, #82, #84, #86, #88, #90, #92, #94, #96, #98, #100. REFER TO SPECIFICATIONS FOR PROTOCOL ON REMOVALS AND IMPACT ON NEW WORK SCOPE.

NOTES:

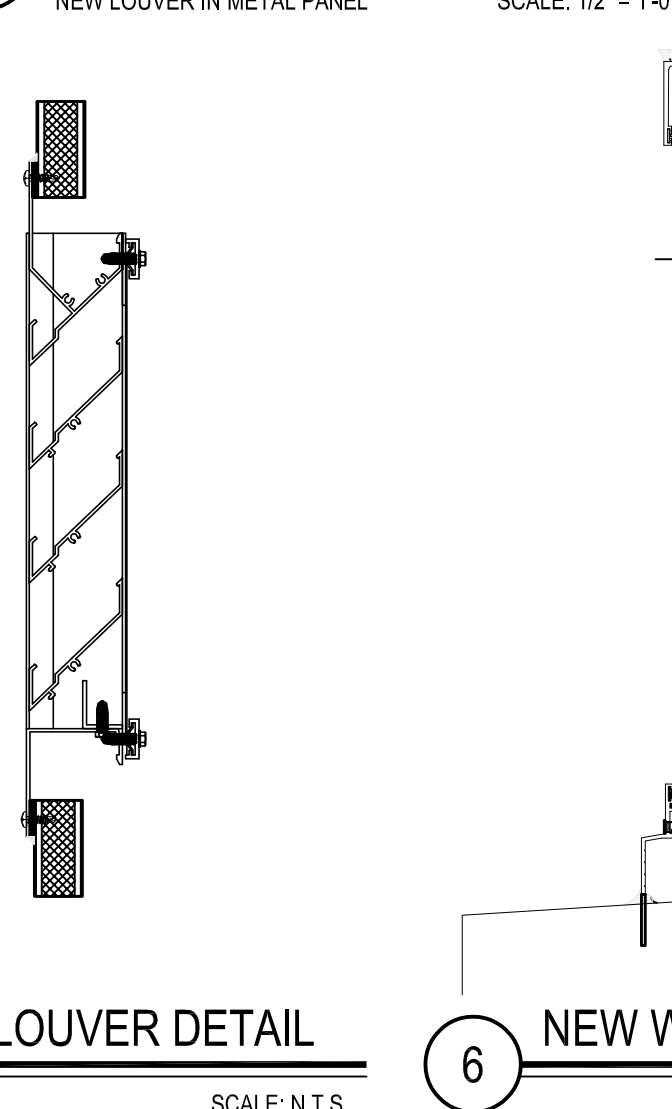
MATERIALS IDENTIFIED ABOVE SHOULD BE CONSIDERED LEAD CONTAINING IN THE AREAS INDICATED AS WELL AS WHERE EVER THEY EXIST THROUGHOUT THE STRUCTURE.

DESIGNATED KEYNOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO PRE CONSTRUCTION LEAD MATERIALS INSPECTION, SAMPLING REPORT AND LEAD WORK SAFE PLAN SPECIFICATION 02090 FOR ABATEMENT PROCEDURES AND LEGAL REQUIREMENTS. REFER TO ENVIRONMENTAL CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL FOR LEAD-BASED PAINT INSPECTION DATA & APPENDIX C FOR LEAD XRF TEST RESULTS FOR PROJECT-SPECIFIC DATA.

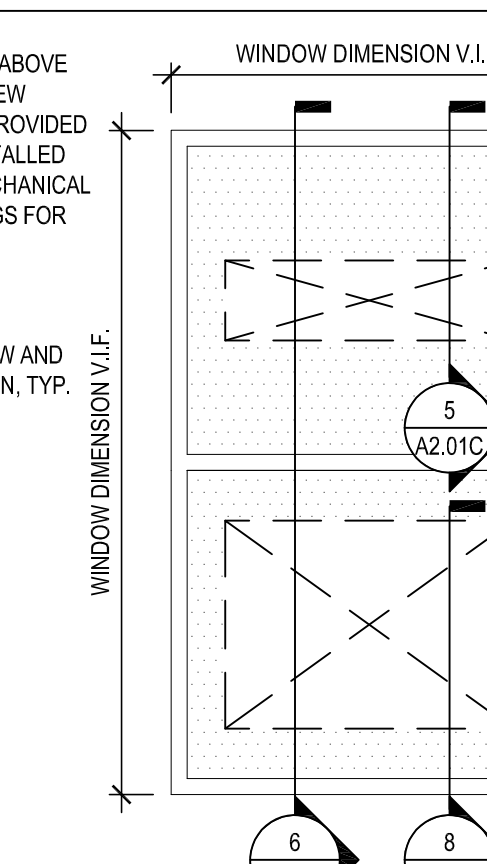


### EXISTING WINDOW ELEVATION

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

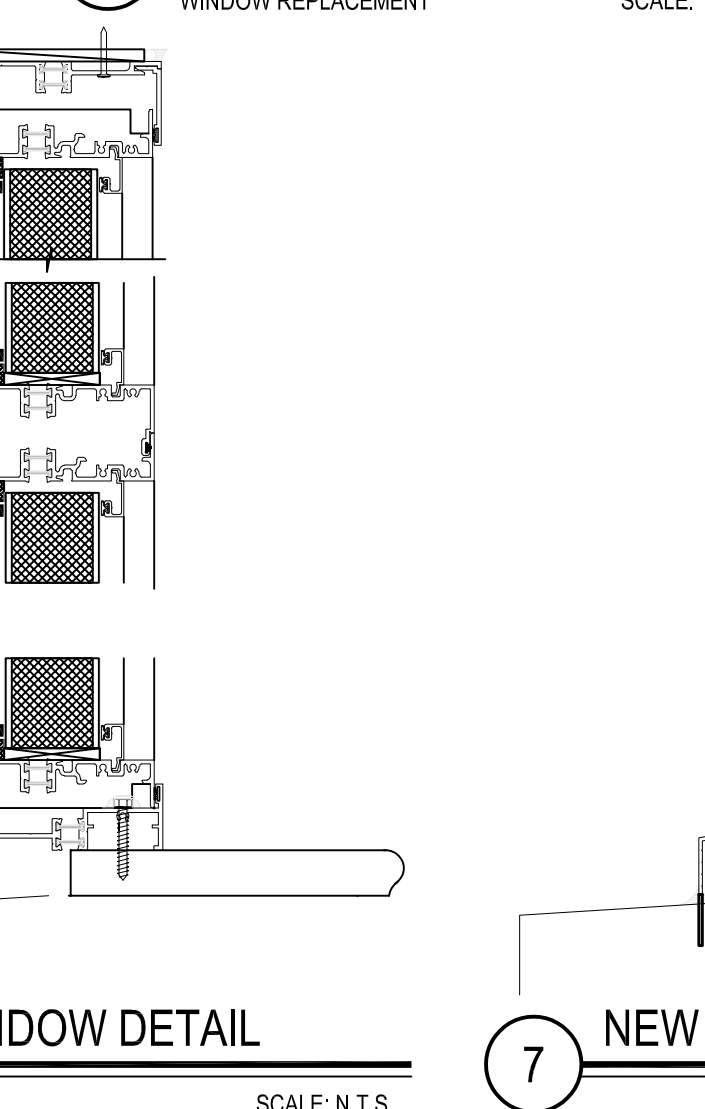


SCALE: N.T.S.

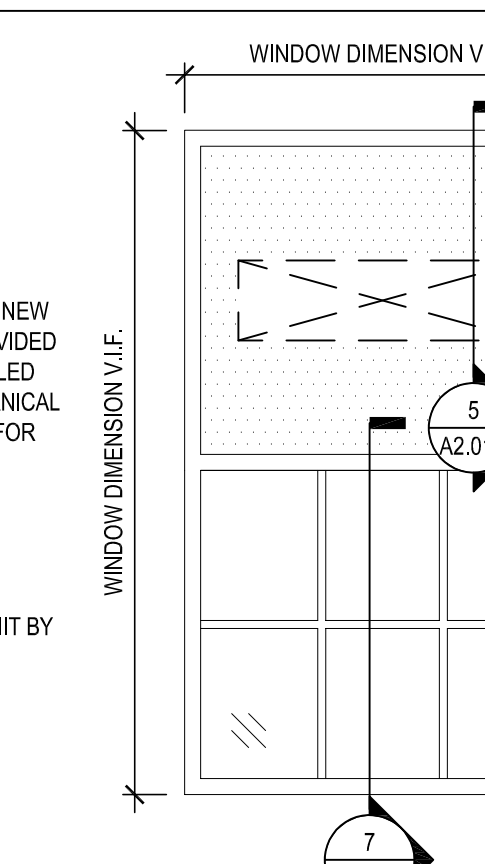


### NEW FIXED PANEL/ PANEL

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

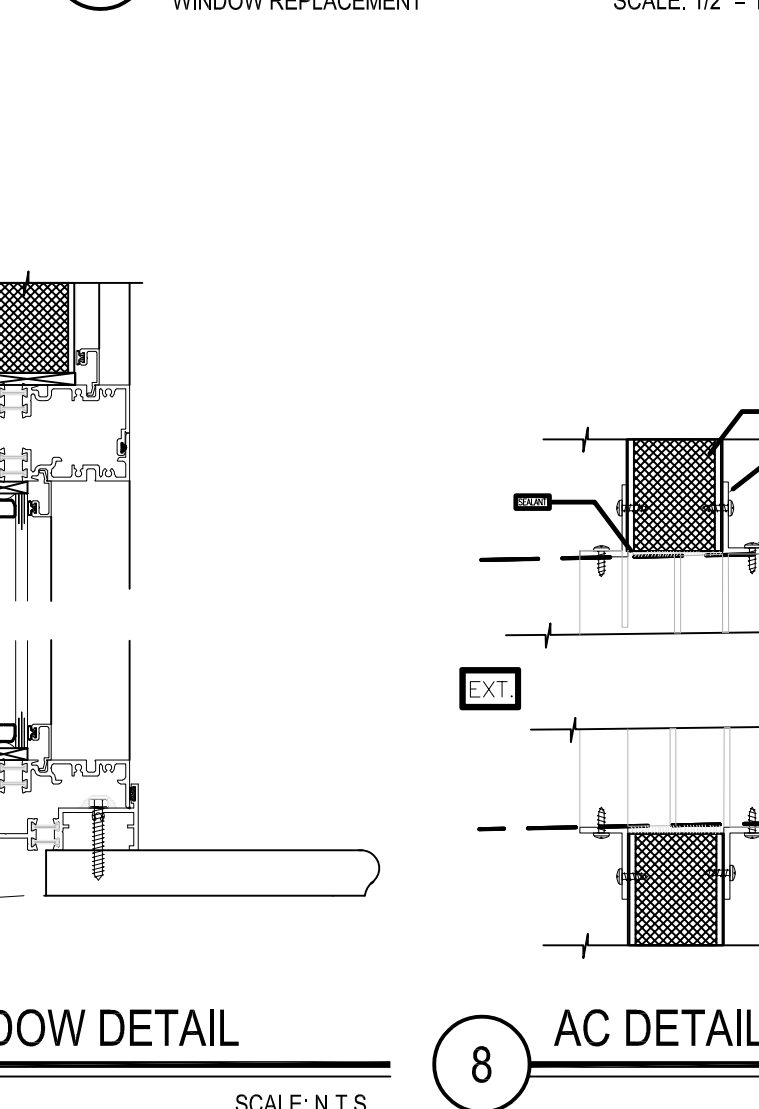


SCALE: N.T.S.



### NEW FIXED GLAZING/ PANEL

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



SCALE: N.T.S.



SCALE: N.T.S.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

MASONRY RECONSTRUCTION  
NEW UNIT VENTILATORS

PROJECT

DWG TITLE

DRAWING BY: S.E.S.  
CHECK BY: J.W.W.

NOTICE

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ENGINEERS

244 EAST MAIN STREET  
PATCHOGUE  
NEW YORK 11772  
T. 631.475.0349  
F. 631.475.0361

187 WOLF ROAD, STE. 205  
ALBANY  
NEW YORK 12205  
T. 518.621.7650  
F. 518.621.7655

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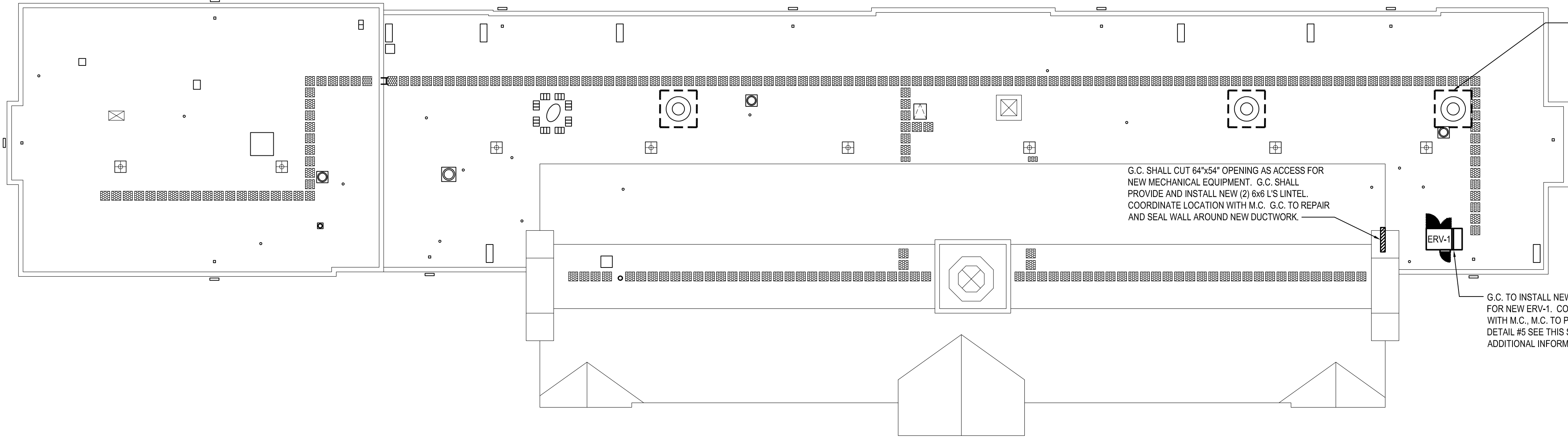
DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE: MASONRY RECONSTRUCTION  
NEW UNIT VENTILATORS

SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-290

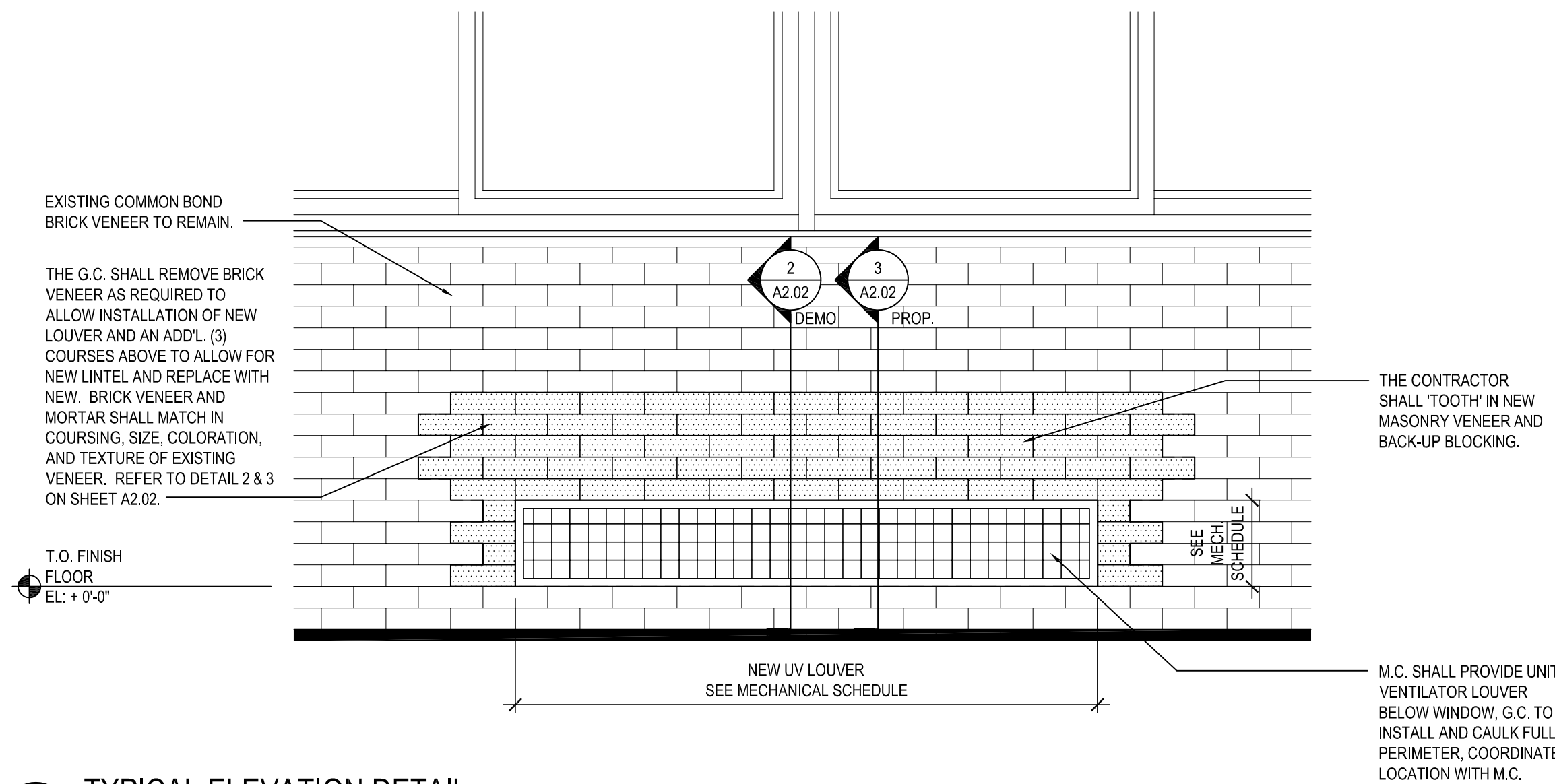
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PROPOSED ROOF KEY PLAN

NOTE:

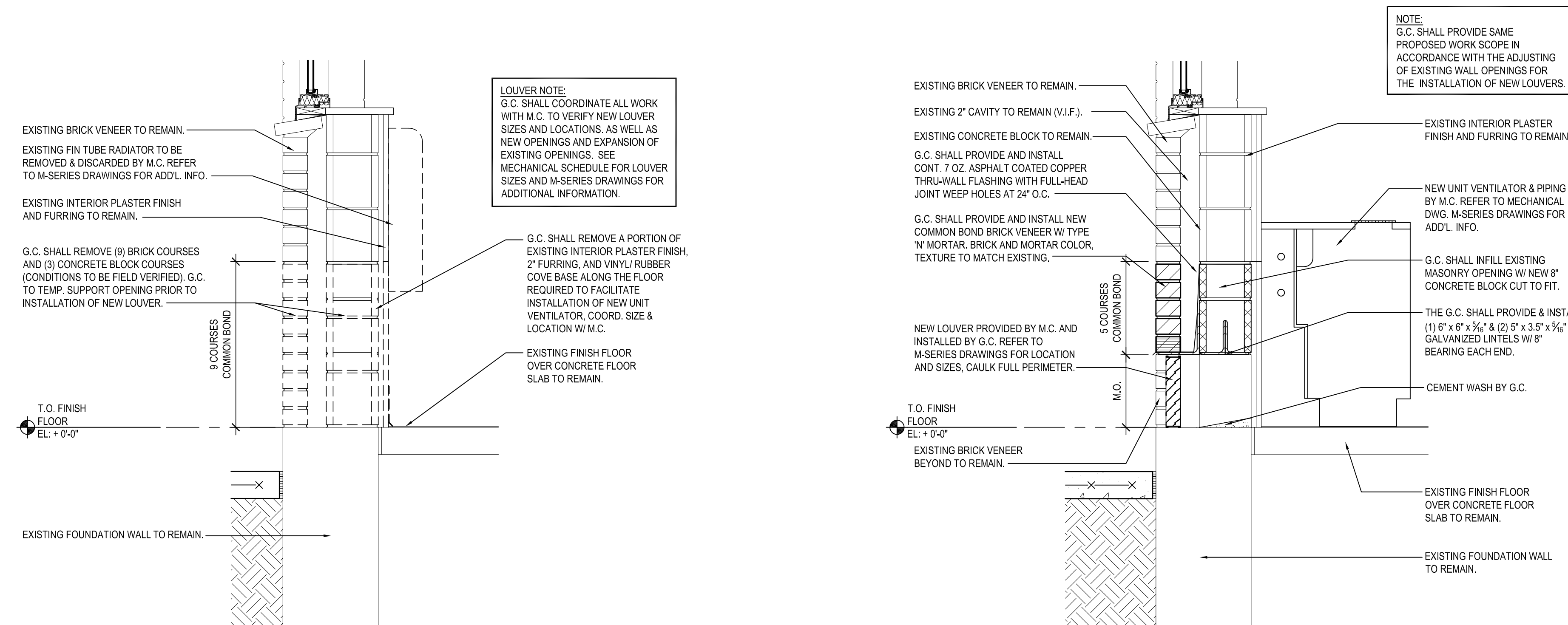
SCALE: 1/16" = 1'-0"



1 TYPICAL ELEVATION DETAIL

G.C. TO COORDINATE SIZE AND LOCATION OF LOUVER OPENINGS WITH M.C.

SCALE: 3/4" = 1'-0"



2 SECTION DETAIL

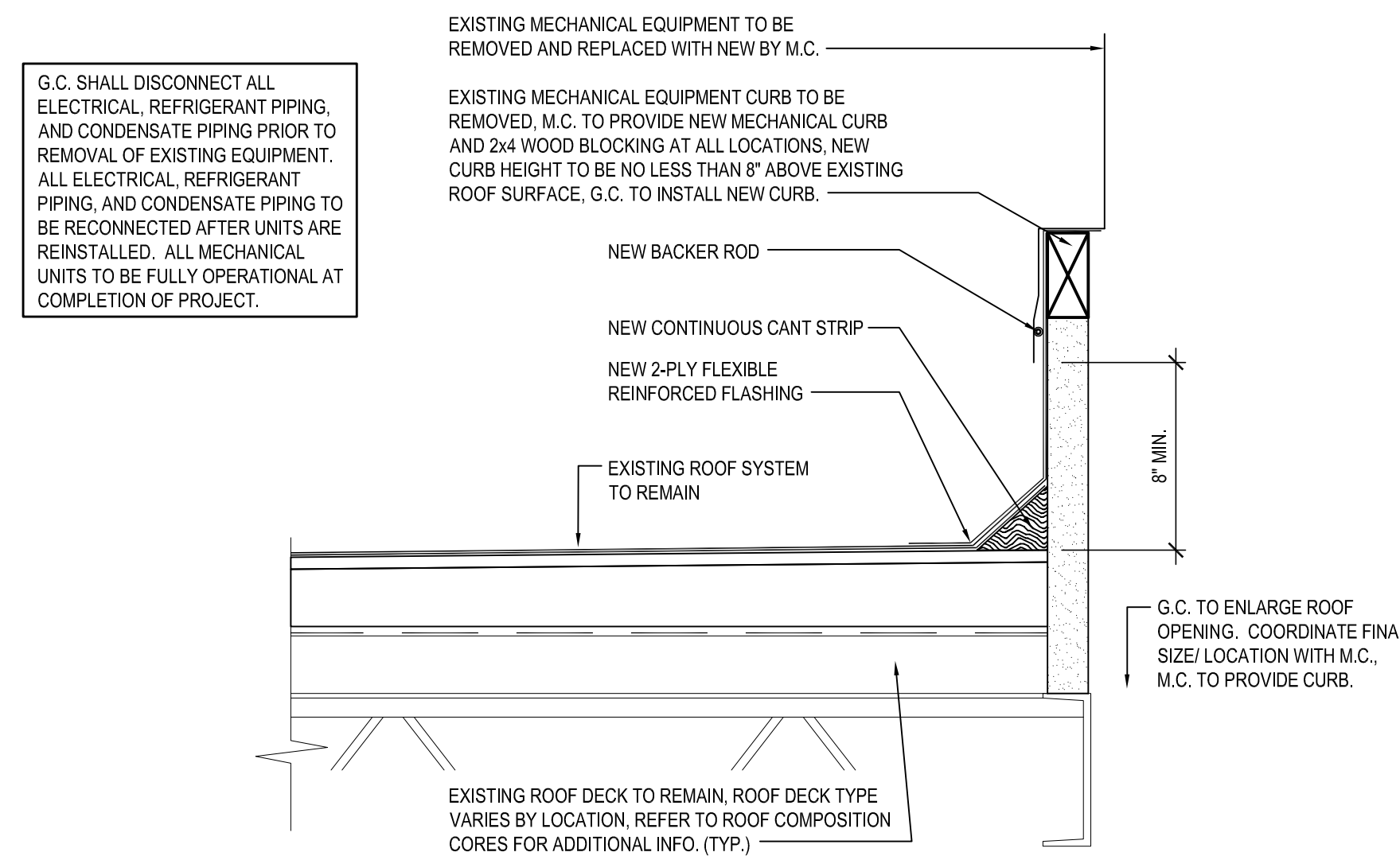
DEMO

SCALE: 1" = 1'-0"

3 SECTION DETAIL

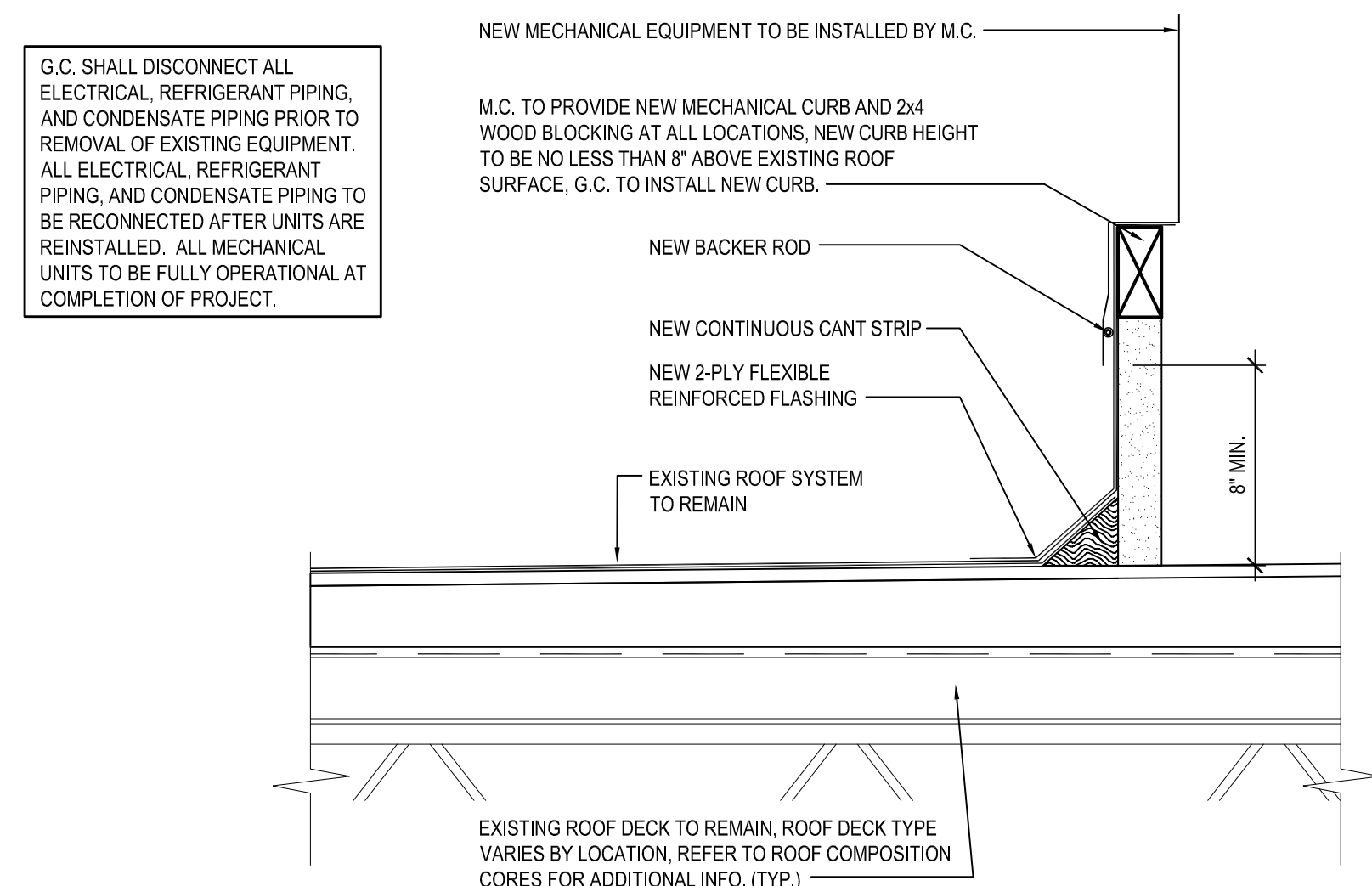
PROPOSED

SCALE: 1" = 1'-0"



4 TYPICAL EQUIPMENT CURB DETAIL

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



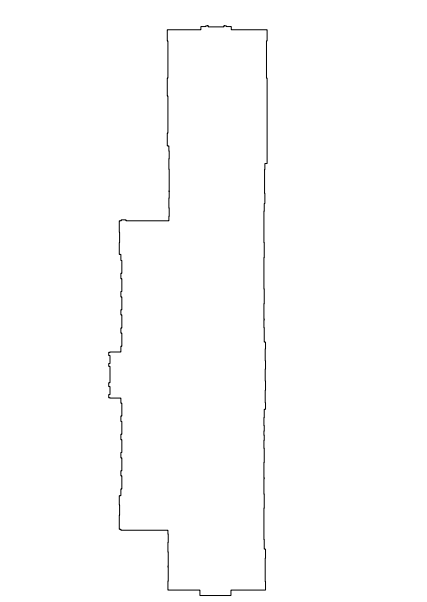
5 TYPICAL EQUIPMENT CURB DETAIL

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

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

DWG TITLE

PROPOSED ROOF PLAN AND DETAILS  
NEW UNIT VENTILATORS

DRAWING BY: S.E.S.

CHECK BY: J.W.W.

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PATCHOGUE, NEW YORK 11772 | ALBANY, NEW YORK 12205  
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DISTRICT

GREENBURGH CSD

PROJECT

PH. I - DW CAP. IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE

PROPOSED ROOF PLAN  
NEW UNIT VENTILATORS

SCALE:

AS NOTED

DATE:

MAY 2022

BID PICK-UP:

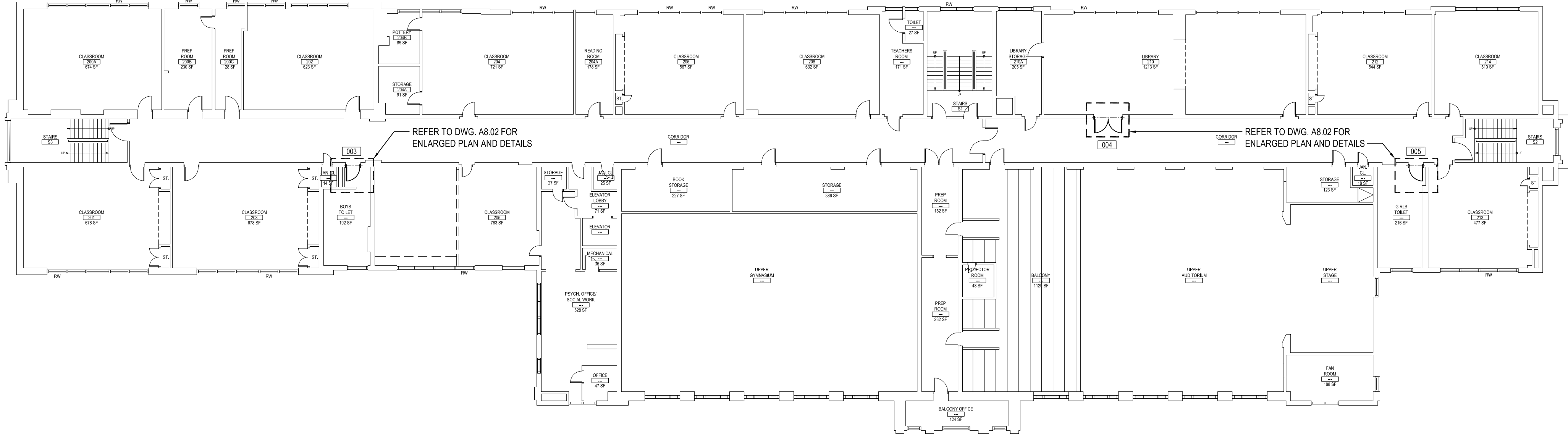
MAY 27, 2022

FILE No:

21-290

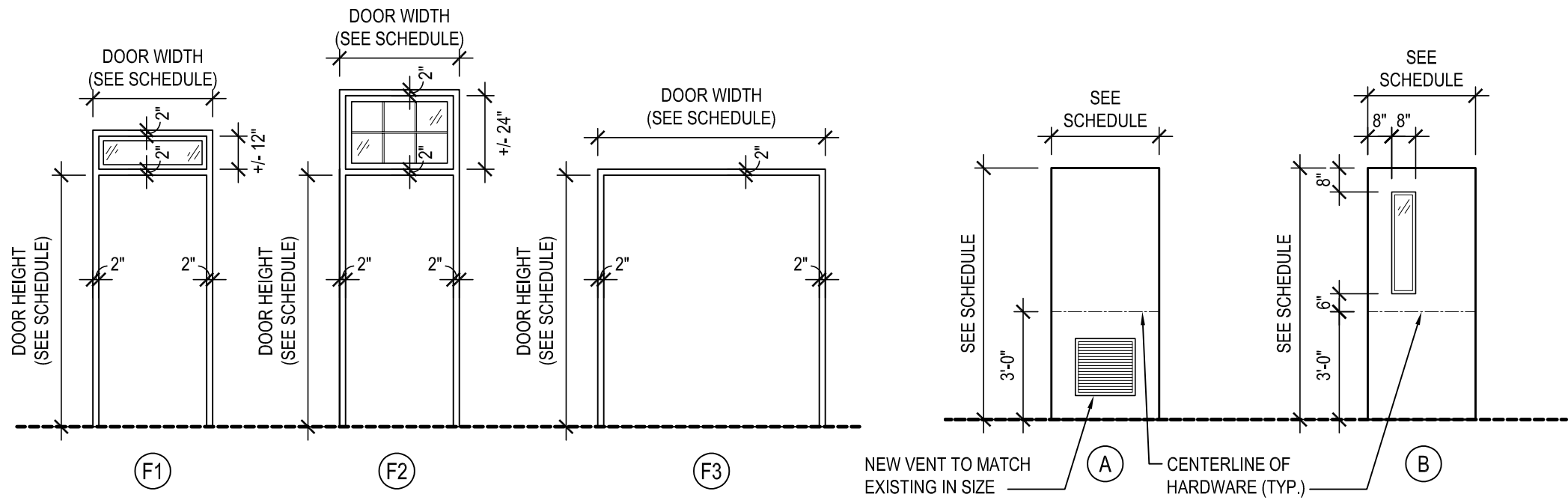
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DOOR SCHEDULE																						
AREA	DOOR NO.	LOCATION	SIGNAGE	DOOR LEAVES	WIDTH	HEIGHT	THICKNESS	ELEV. TYPE	MAT.	GLAZING	FRAME TYPE	MAT.	GLAZING	HARDWARE SET	DETAIL	HEAD	JAMB	SILL	THOLD	FIRE RATING	REMARKS	DOOR NO.
FIRST FLOOR	001	CORRIDOR to GIRLS TOILET	C	1	3'-0"	7'-0"	1 3/4"	A	SCLCOV	---	F1	H.M.	---	01	H1	J1	---	T1		60 MIN.		001
	002	CORRIDOR to BOYS TOILET	C	1	3'-0"	7'-0"	1 3/4"	A	SCLCOV	---	F2	H.M.	---	01	H1	J1	---	T1		60 MIN.		002
SECOND FLOOR	003	CORRIDOR to BOYS TOILET	C	1	3'-0"	7'-0"	1 3/4"	A	SCLCOV	---	F1	H.M.	---	01	H1	J1	---	T1		60 MIN.		003
	004	LIBRARY #210 to CORRIDOR	B	2	3'-0"	7'-0"	1 3/4"	B	SCLCOV	F.G.	F3	H.M.	---	02	H1	J1	---	T2		60 MIN.	PROVIDE MAGNETIC HOLD OPENS	004
	005	CORRIDOR to GIRLS TOILET	C	1	3'-0"	7'-0"	1 3/4"	A	SCLCOV	---	F2	H.M.	---	01	H1	J1	---	T1		60 MIN.		005

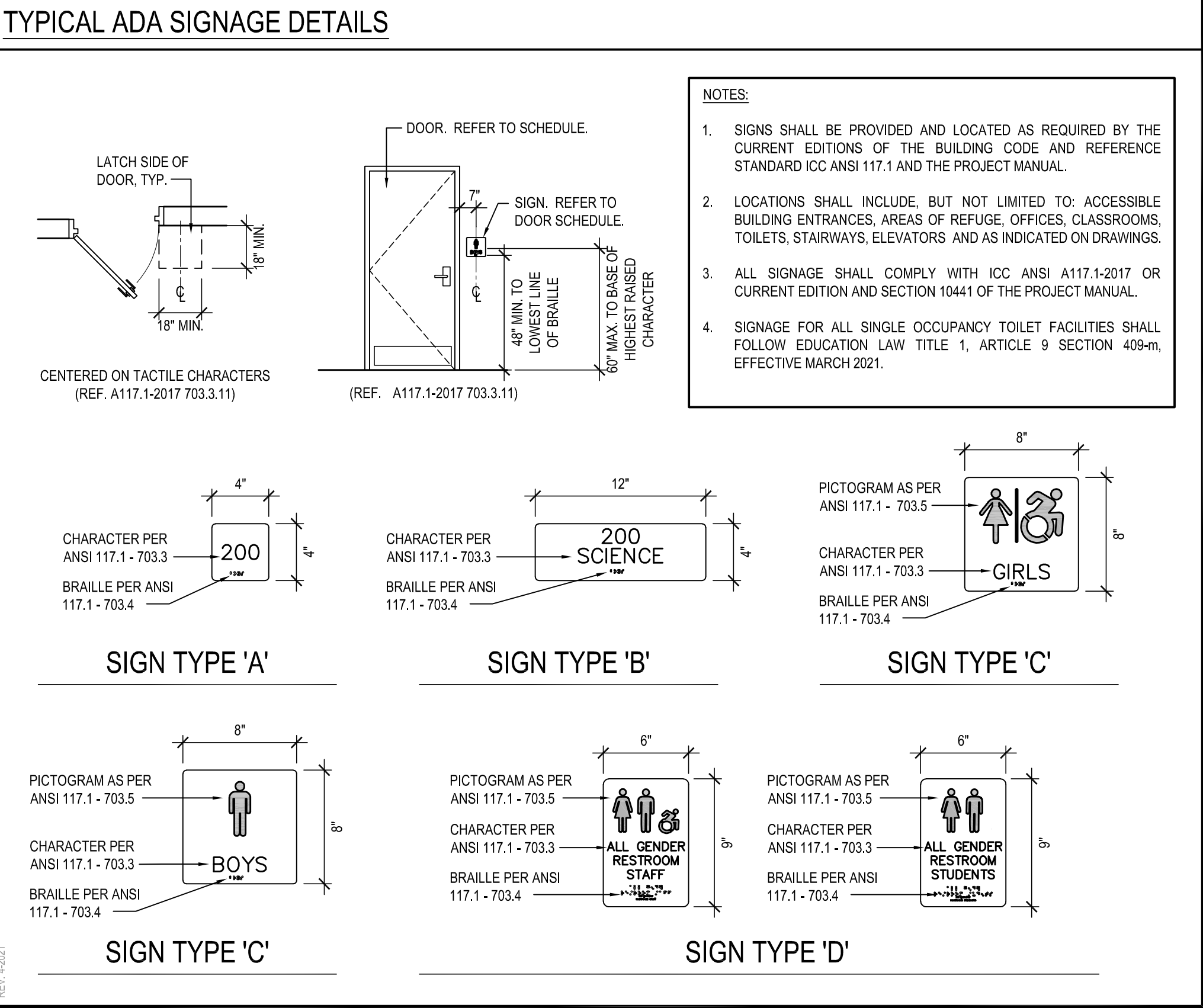


ABBREVIATION LEGEND		
ALUM.	ALUMINUM	S.F.
S.C.L.C.O.V.	SOLID COMPOSITE LUMBER CORE OAK VENEER	SG-1
M.C.O.V.	MINERAL CORE OAK VENEER	SG-2
S.C.L.C.M.V.	SOLID COMPOSITE LUMBER CORE MAPLE VENEER	SG-3
M.C.M.V.	MINERAL CORE MAPLE VENEER	SG-4
F.R.P.	FIBERGLASS REINFORCED POLYESTER	SG-5
H.M.	HOLLOW METAL	SG-6
F.G.	1/2" FIREGLASS 20	BRG-L1
F.L.P.	1/2" FIRE-LITE PLUS	BRG-L2
PYRO	PYROSTOP GLAZING	BRG-L3
INSUL.	1" INSULATED GLAZING	SGP-L1
S.L.	1/2" SAFETY LAMINATED GLAZING	SGP-L2
OBSG.	OBSOURE GLAZING	SGP-L3
U.O.N.	UNLESS OTHERWISE NOTED	

- ### DOOR NOTES
- ALL DOORS, FRAMES AND HARDWARE SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
  - GENERAL CONTRACTOR SHALL COORDINATE ALL KEYING WITH OWNER.
  - FIRE RATED WOOD DOORS (60 MIN. AND ABOVE ONLY) SHALL HAVE SOLID MINERAL CORE. ALL OTHER WOOD DOORS SHALL HAVE SOLID COMPOSITE LUMBER CORE.
  - FLUSH WOOD DOORS SHALL BE 5 PLY LAMINATED FACE SHEETS WITH 2 PLY FINISH VENEER OVER SPECIFIED CORE. AT FIRE RATED DOORS, TOP AND BOTTOM RAILS AND STILES SHALL BE FIRE RESISTANT COMPOSITION MATERIAL BONDED TO CORE. PROVIDE SOLID BLOCKING FOR CLOSER AND HARDWARE. REFER TO SPECIFICATION SECTION 0821 FOR ADDITIONAL INFORMATION.
  - ALL GLAZING IN DOORS SHALL BE INSTALLED IN METAL VISION KIT TO MATCH FIRE LABEL. VISION KIT COLOR SHALL BE AS SELECTED BY ARCHITECT. INTERIOR GLAZING TYPES AND SIZES SHALL CONFORM TO NFPA 80 AND/OR ASTM E119. WHERE SECURITY GLAZING IS INDICATED, VISION KIT SHALL BE THROUGH-BOLT TYPE.
  - ALL NEW H.M. FRAMES SHALL BE FULLY WELDED WRAP AROUND TYPE (UNLESS OTHERWISE NOTED OR DETAILED). THROATS SHALL BE SIZED ACCORDING TO WALL THICKNESS AND FINISH. REFER TO FLOOR PLAN AND ENLARGED DETAILS FOR ADDITIONAL INFORMATION.
  - FOR DOOR REPLACEMENTS IN KIND, GENERAL CONTRACTOR SHALL MODIFY AND PATCH EXISTING WOOD OR H.M. DOOR FRAMES (DESIGNATED TO REMAIN) TO ACCOMMODATE NEW DOOR OPERATOR, LOCKSET, LATCH, HINGES, DOOR SWING AND/OR CLOSER, ETC. AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION.
  - GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING HEIGHT AND WIDTH OF PROPOSED DOORS TO BE INSTALLED IN EXISTING FRAMES (PRIOR TO SHOP DRAWING SUBMITTAL) TO ENSURE PROPER FIT AND DOOR FUNCTION.
  - ALL NEW HOLLOW METAL FRAMES AND HOLLOW METAL DOORS SHALL BE FINISH PAINTED. REFER TO SPECIFICATION SECTION 0990 FOR PAINT TYPE. COLOR AS SELECTED BY ARCHITECT.
  - GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL A.D.A. COMPLIANT SIGNAGE AT ALL DOORS WHERE SPECIFIED IN DOOR SCHEDULE AND/OR SHOWN ON FLOOR PLANS. INSTALL IN CONFORMANCE WITH ALL ADA HEIGHT AND PLACEMENT REQUIREMENTS.
    - ▲ A WHERE DENOTED IN SCHEDULE, PROVIDE 4"x4" SIGNAGE WITH BRAILLE INDICATING ROOM NUMBER (COORD. WITH OWNER). MODEL NO. E-8TCUST.
    - ▲ B WHERE DENOTED IN SCHEDULE, PROVIDE 4"x12" SIGNAGE WITH BRAILLE INDICATING ROOM NAME AND NUMBER (COORD. WITH OWNER). MODEL NO. E-8TCUST.
    - ▲ C WHERE DENOTED IN SCHEDULE, PROVIDE 9"x9" SIGNAGE WITH BRAILLE INDICATING GENDER AND WHEELCHAR PICTOGRAMS AND ROOM NAME AT MULTI-USE TOILET ROOMS.
      - AT MULTI-USE TOILET ROOMS, PROVIDE AND INSTALL MODEL NO. X-5687 (WOMEN), X-5672 (MEN), X-7095 (BOYS), X-7096 (GIRLS).
      - AT MULTI-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL NO. X-5688 (WOMEN), X-5671 (MEN), X-7108 (BOYS), X-7107 (GIRLS).
    - ▲ D WHERE DENOTED IN SCHEDULE, PROVIDE 9"x9" SIGNAGE WITH BRAILLE INDICATING GENDER AND WHEELCHAR PICTOGRAMS AND ROOM NAME AT SINGLE-USE TOILET ROOMS.
      - AT SINGLE-USE TOILET ROOMS, PROVIDE AND INSTALL MODEL NO. E-8TCUST. SIGN SHALL SPECIFY STAFF OR STUDENT USE AS REQUIRED.
      - AT SINGLE-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL NO. E-8TCUST. SIGN SHALL SPECIFY STAFF OR STUDENT USE AS REQUIRED.
  - MANUFACTURER: "ALL STATE SIGN AND PLAQUE", DEER PARK, NY OR APPROVED EQUAL. ALL SIGNAGE SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. COLOR AS SELECTED BY ARCHITECT.
  - ALL REMOVABLE MULLIONS ARE TO BE KEYS ALIKE AND TO MATCH EXISTING BUILDING SYSTEM.
  - AUTOMATIC DOOR OPERATORS - THE ELECTRICAL CONTRACTOR SHALL PROVIDE A LINE VOLTAGE CIRCUIT TO THE AUTO OPERATOR. LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRING ASSOCIATED WITH AUTOMATIC DOOR OPERATORS, INCLUDING ELECTRONIC STRIKE, PUSH BUTTONS, TRANSFORMERS AND ANY OTHER DEVICES REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
  - FIRE RATED GLAZING WITH SURFACE APPLIED FILMS WILL NOT BE CONSIDERED EQUIVALENT WHERE LAMINATED FILM IS SPECIFIED.



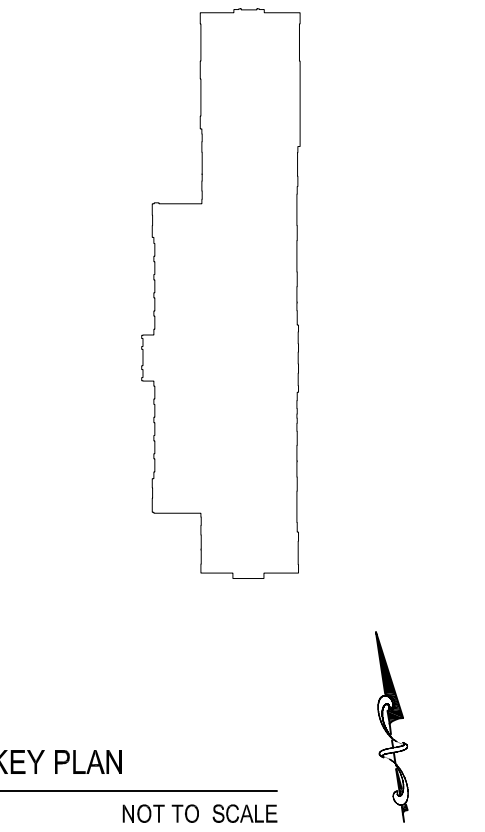
- ### FRAME TYPE ELEVATIONS
- NOTE: REFER TO DOOR SCHEDULE FOR DOOR FRAME MATERIAL.
- SCALE: 1/4" = 1'-0"
- ### DOOR TYPE ELEVATIONS
- NOTE: REFER TO DOOR SCHEDULE FOR DOOR MATERIAL AND GLAZING TYPE (WHERE APPLICABLE).
- SCALE: 1/4" = 1'-0"



REV.	DATE	ITEM

NOTICE

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GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT  
DRAWING BY: S.E.S.  
CHECK BY: J.W.W.

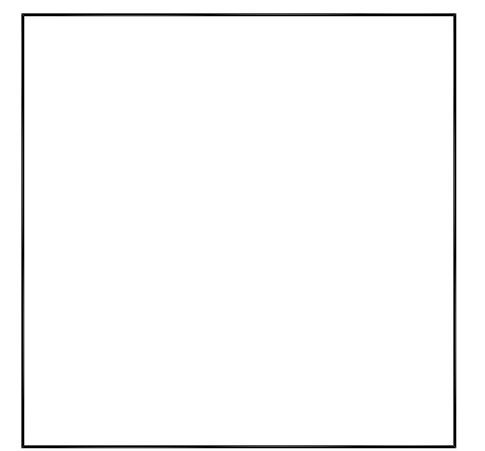
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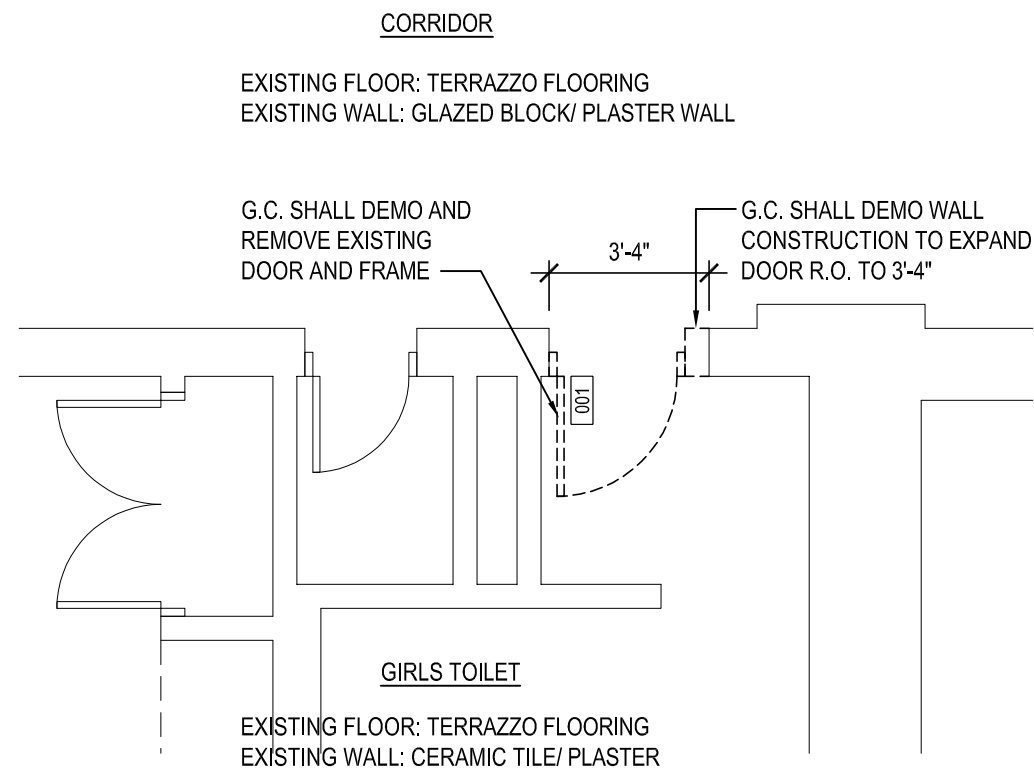
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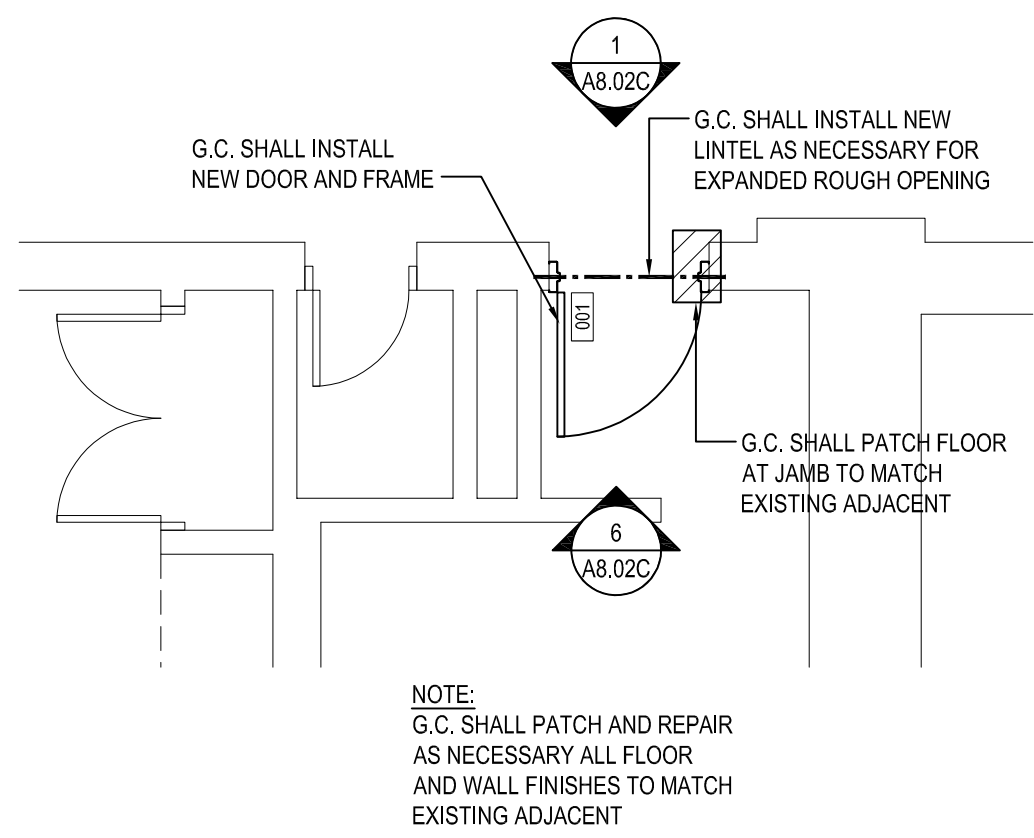


SED No: 66-04-07-06-005-012  
DISTRICT: GREENBURGH CSD  
PROJECT: PH. I - DW CAP. IMPROVEMENTS  
R.J. BAILEY E.S.  
DWG TITLE: DOOR SCHEDULE  
SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-290

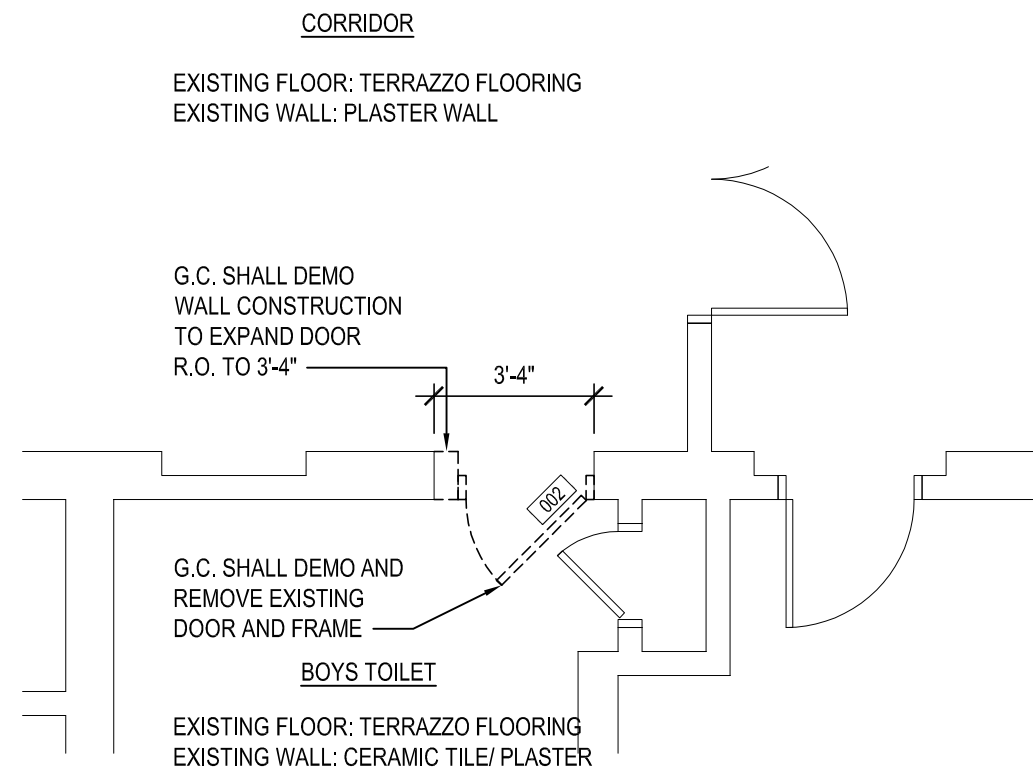
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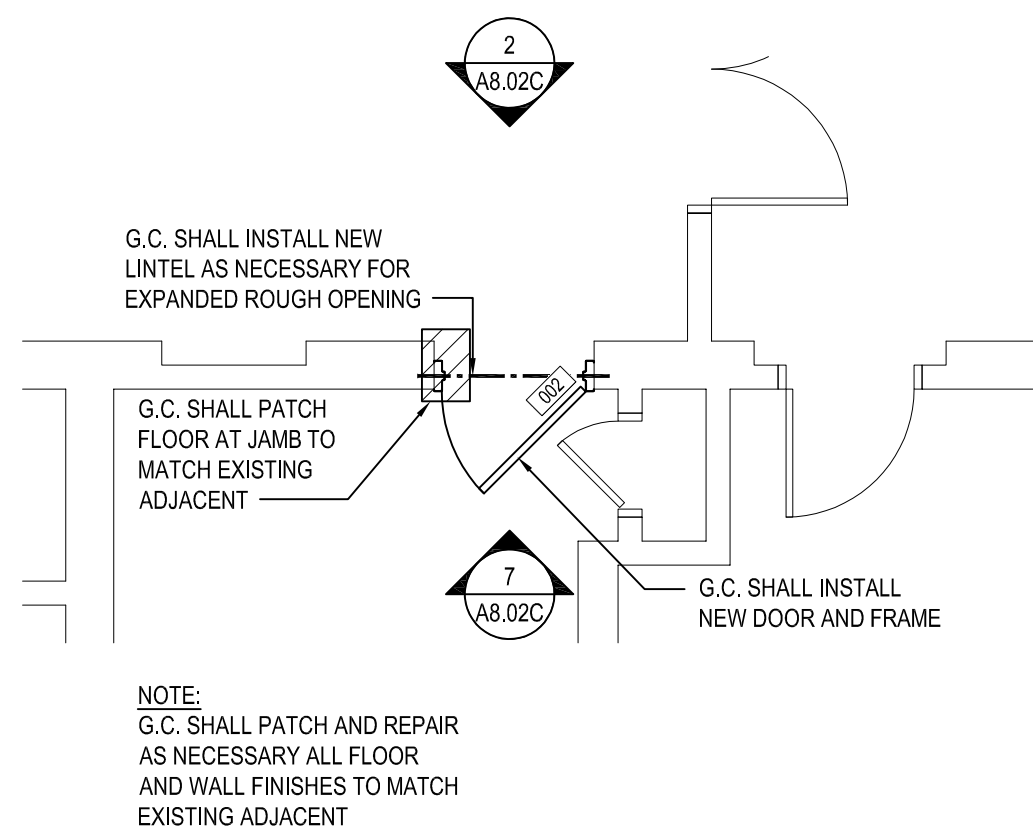
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FIRST FLOOR - GIRLS TOILET  
SCALE: 1/4" = 1'-0"



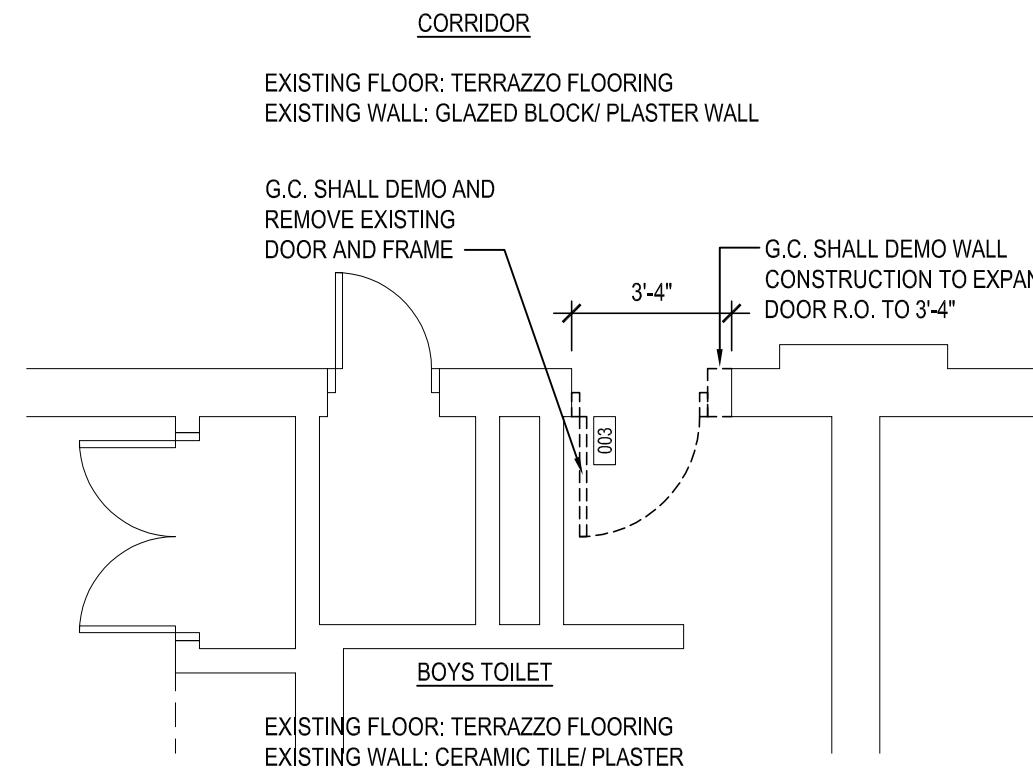
**DOOR REPLACEMENT #001 PROPOSED PLAN**  
FIRST FLOOR - GIRLS TOILET  
SCALE: 1/4" = 1'-0"



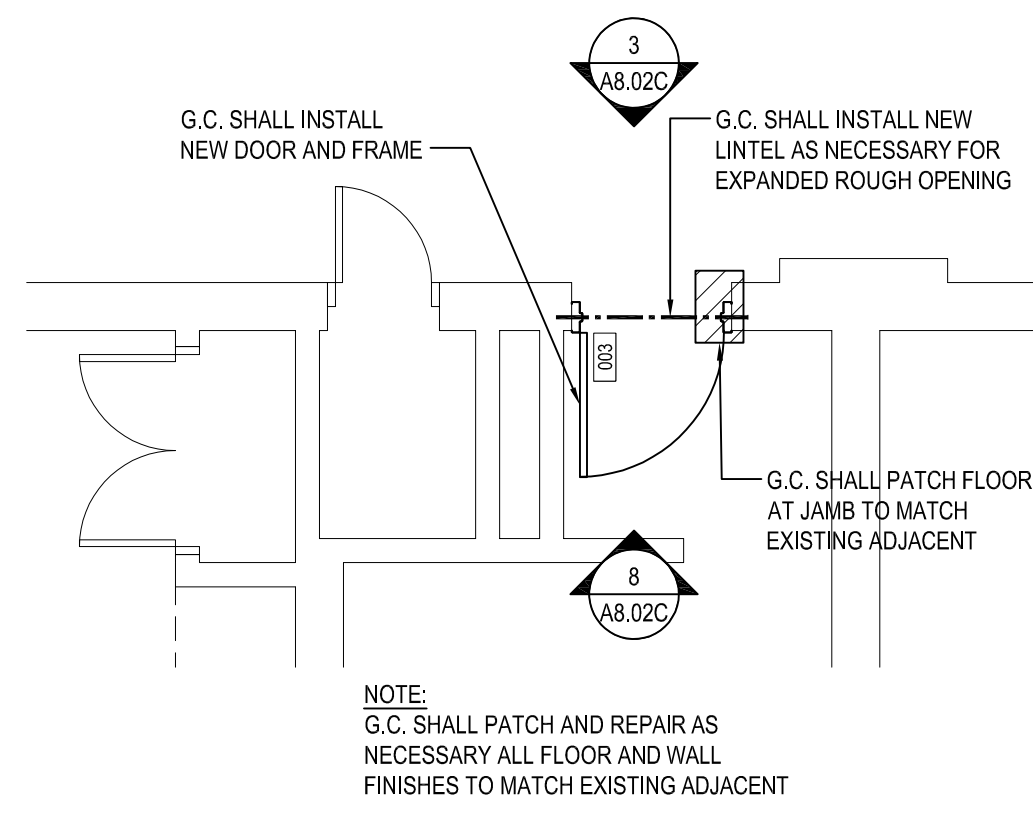
**DOOR REPLACEMENT #002 PLAN**  
FIRST FLOOR - BOYS TOILET  
SCALE: 1/4" = 1'-0"



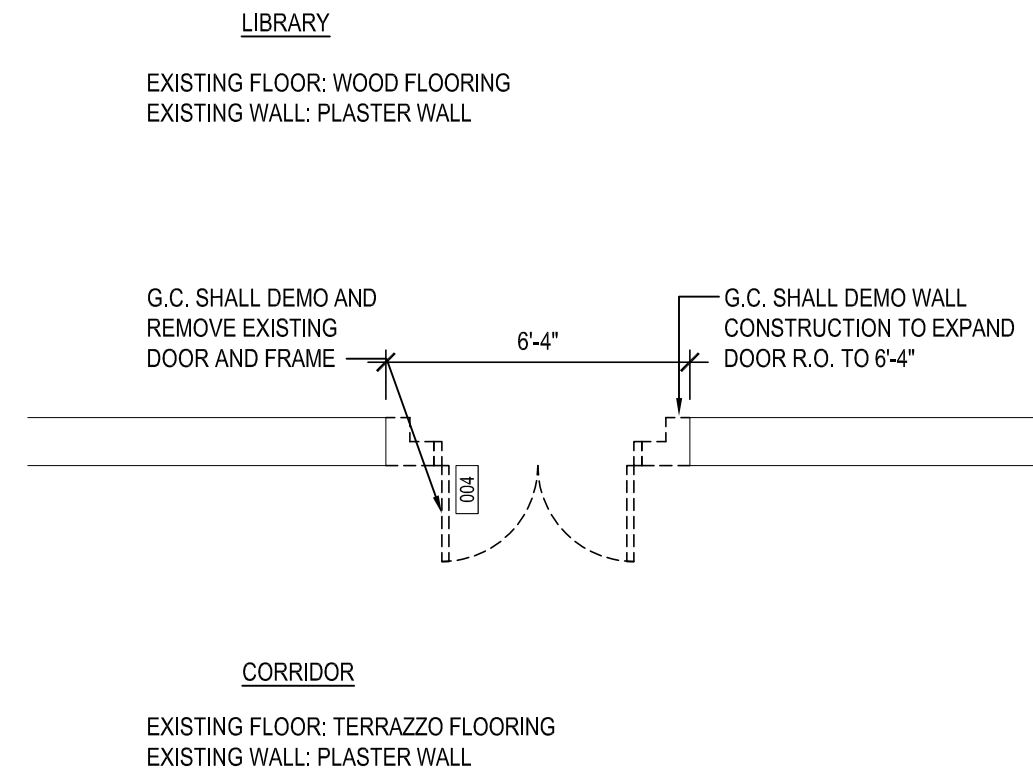
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FIRST FLOOR - BOYS TOILET  
SCALE: 1/4" = 1'-0"



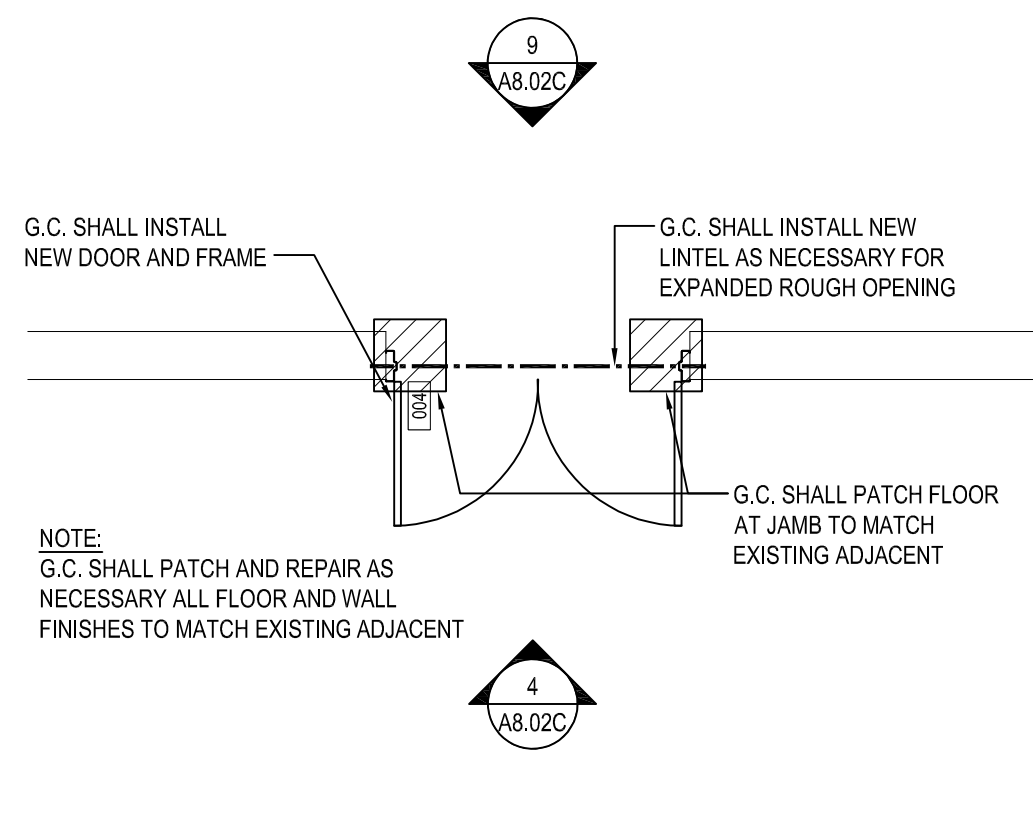
**DOOR REPLACEMENT #003 PLAN**  
SECOND FLOOR - BOYS TOILET  
SCALE: 1/4" = 1'-0"



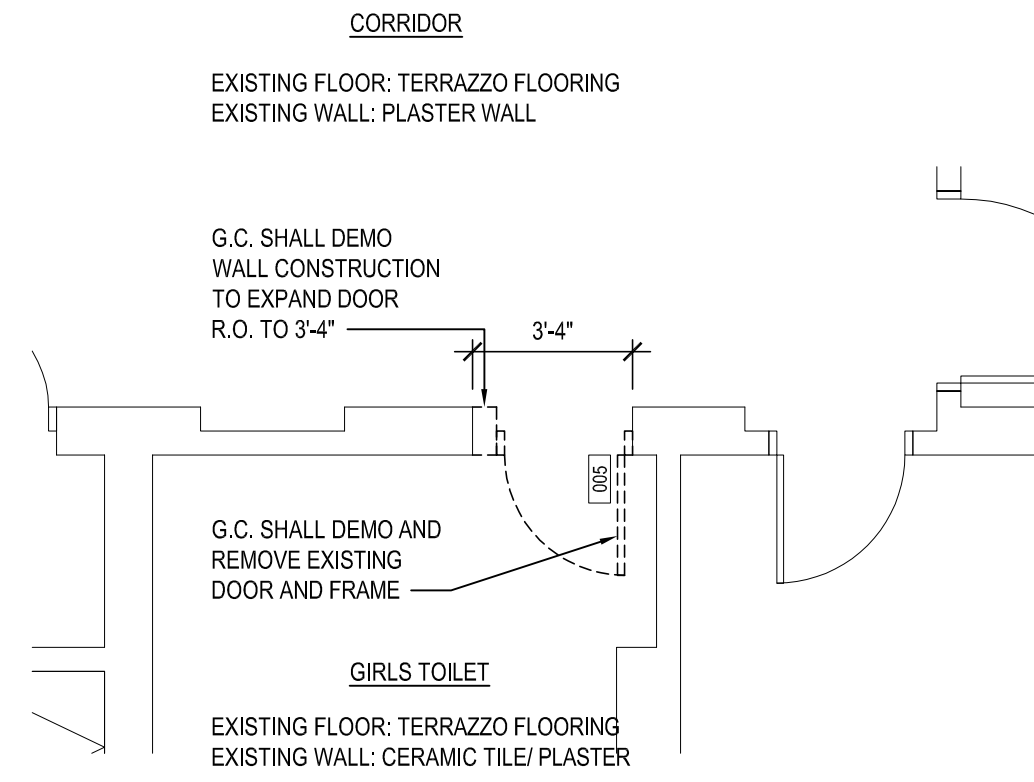
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SECOND FLOOR - BOYS TOILET  
SCALE: 1/4" = 1'-0"



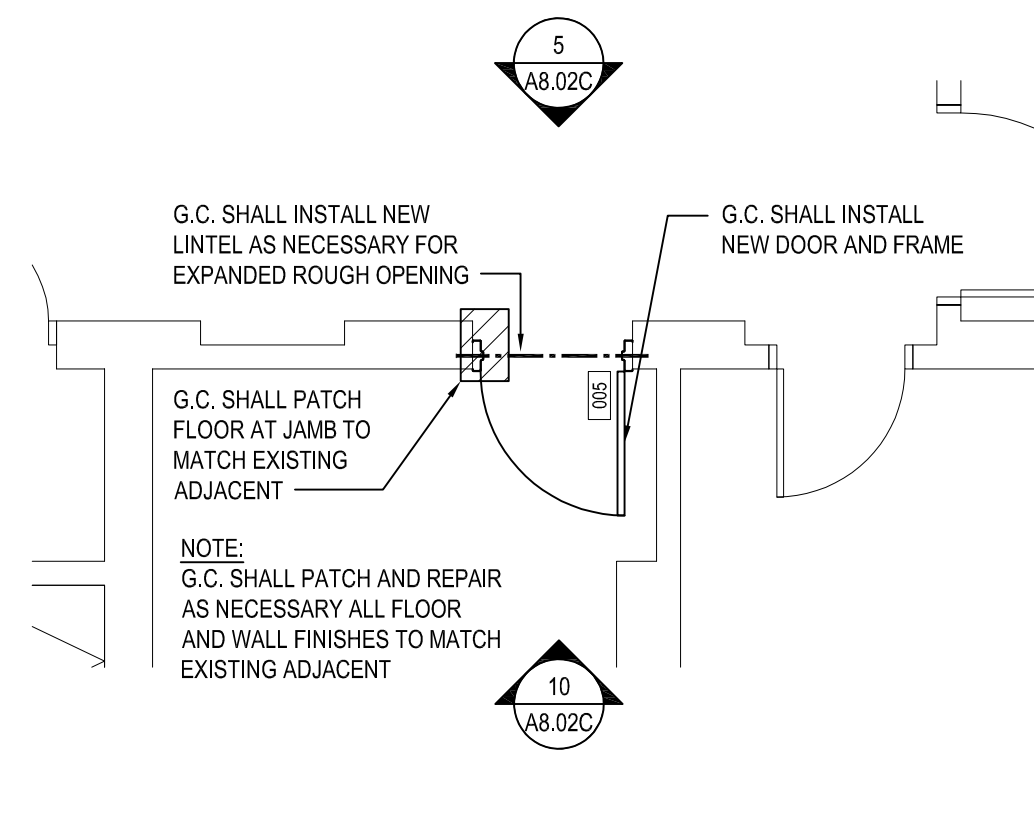
**DOOR REPLACEMENT #004 PLAN**  
SECOND FLOOR - LIBRARY  
SCALE: 1/4" = 1'-0"



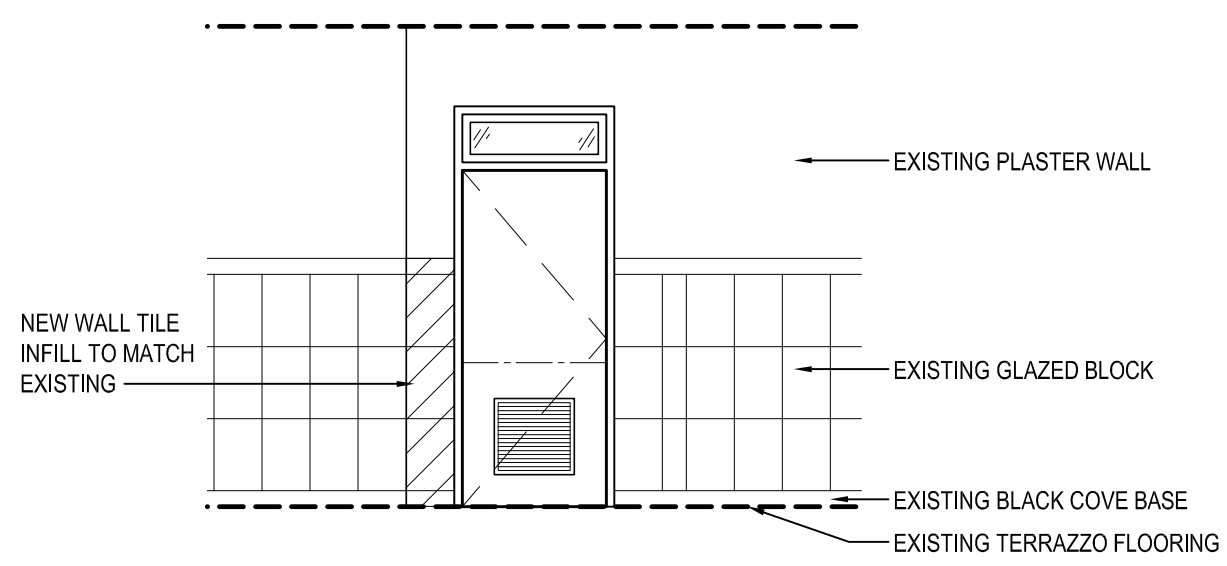
**DOOR REPLACEMENT #004 PLAN**  
SECOND FLOOR - LIBRARY  
SCALE: 1/4" = 1'-0"



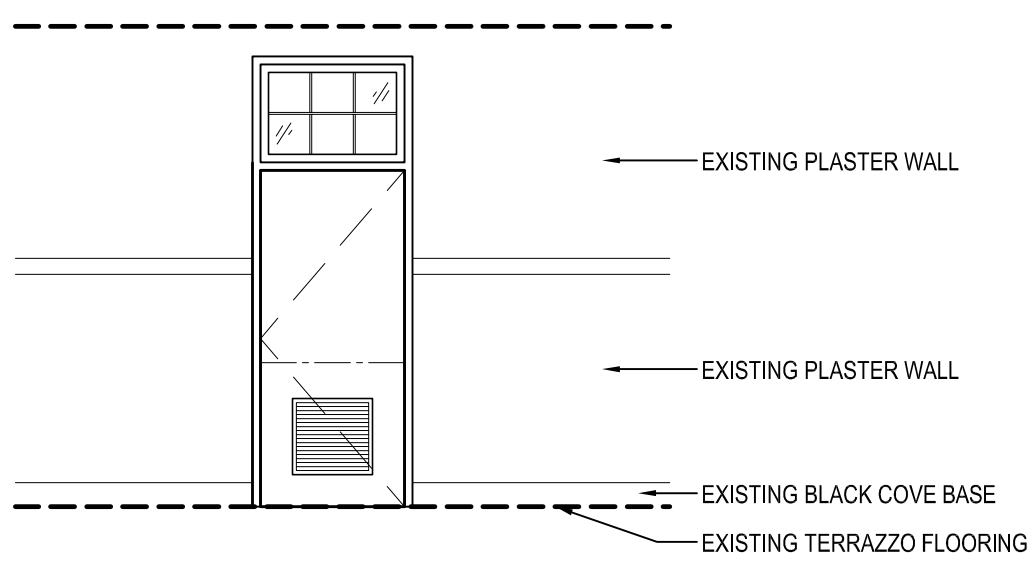
**DOOR REPLACEMENT #005 PLAN**  
SECOND FLOOR - GIRLS TOILET  
SCALE: 1/4" = 1'-0"



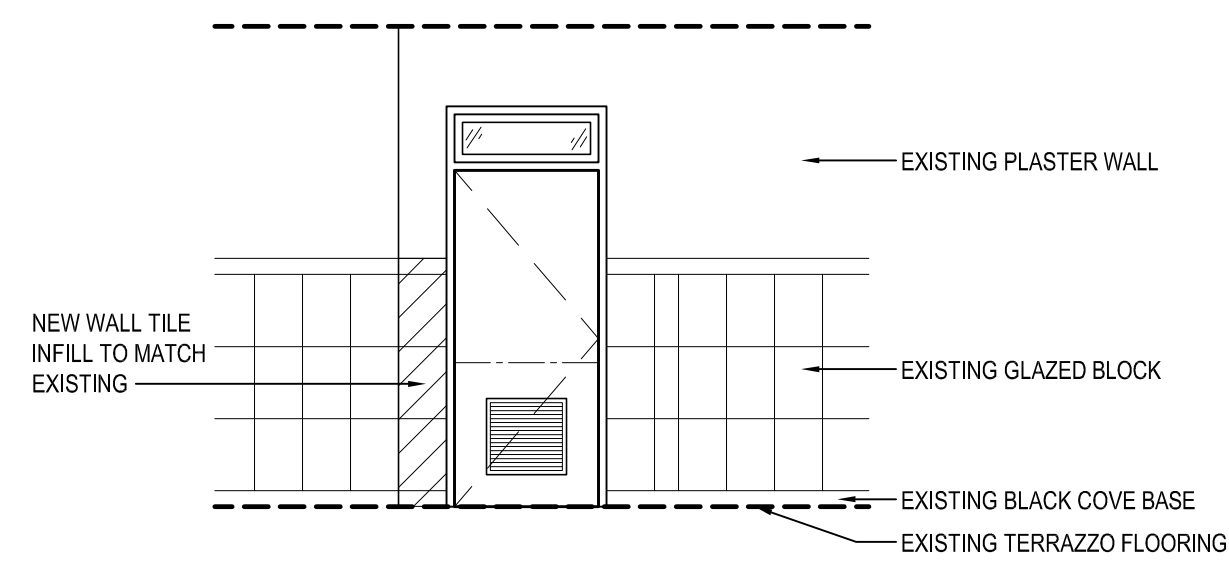
**DOOR REPLACEMENT #005 PLAN**  
SECOND FLOOR - GIRLS TOILET  
SCALE: 1/4" = 1'-0"



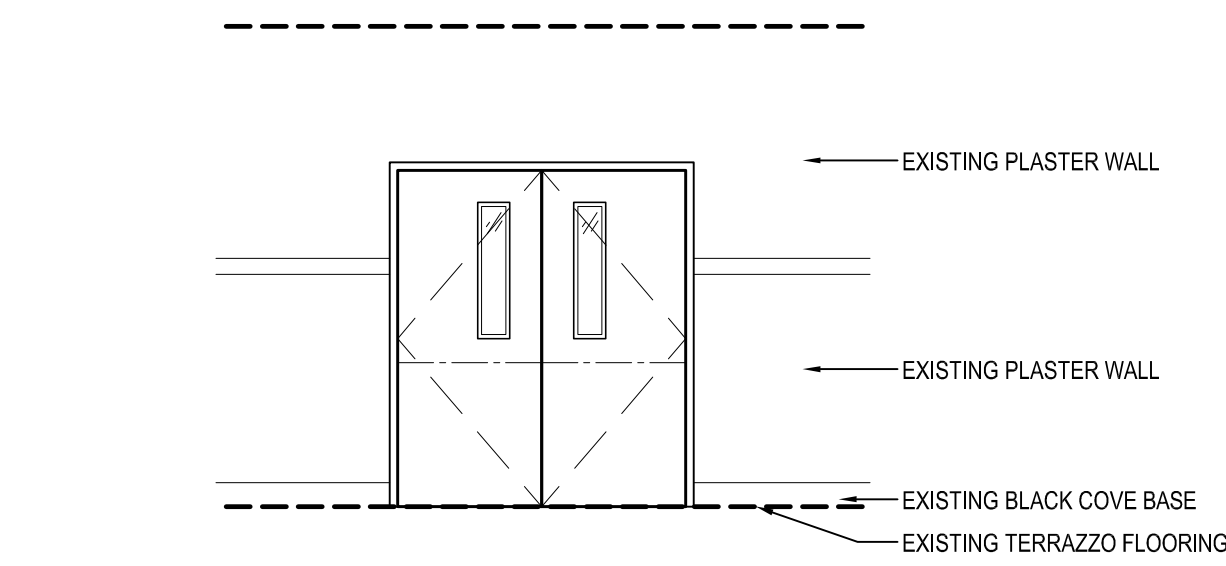
**1 PROPOSED DOOR ELEVATION**  
CORRIDOR  
SCALE: 1/4" = 1'-0"



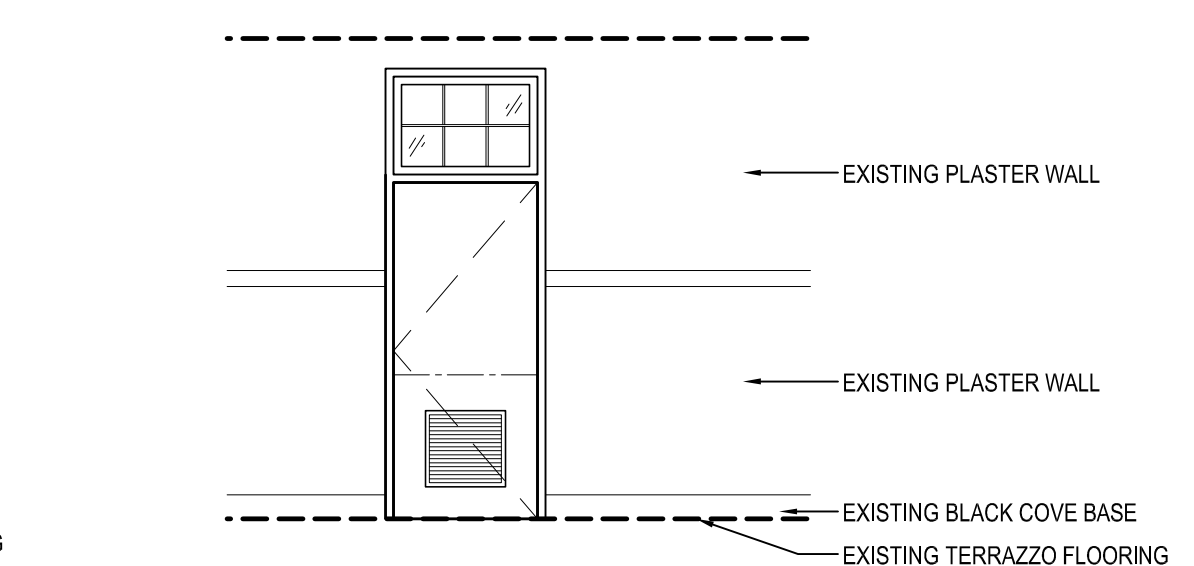
**2 PROPOSED DOOR ELEVATION**  
CORRIDOR  
SCALE: 1/4" = 1'-0"



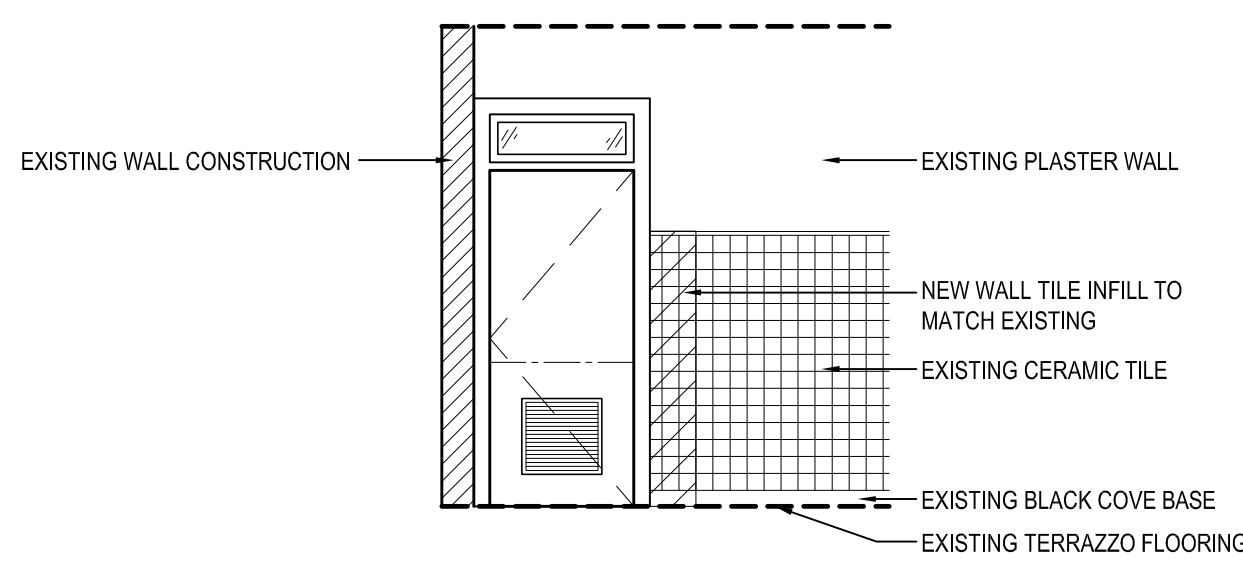
**3 PROPOSED DOOR ELEVATION**  
CORRIDOR  
SCALE: 1/4" = 1'-0"



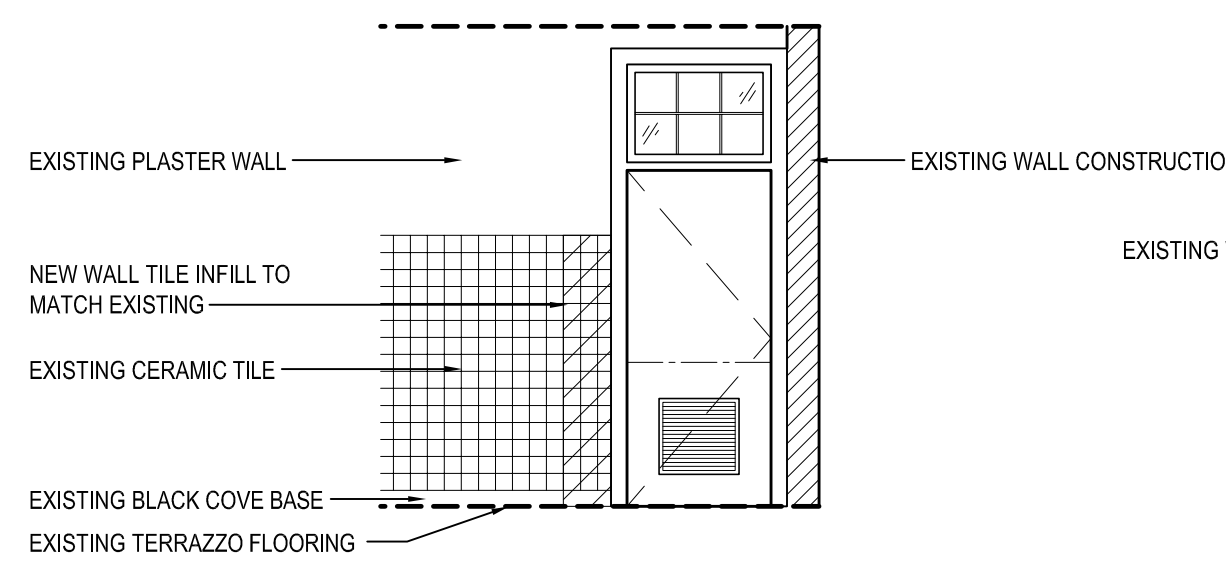
**4 PROPOSED DOOR ELEVATION**  
CORRIDOR  
SCALE: 1/4" = 1'-0"



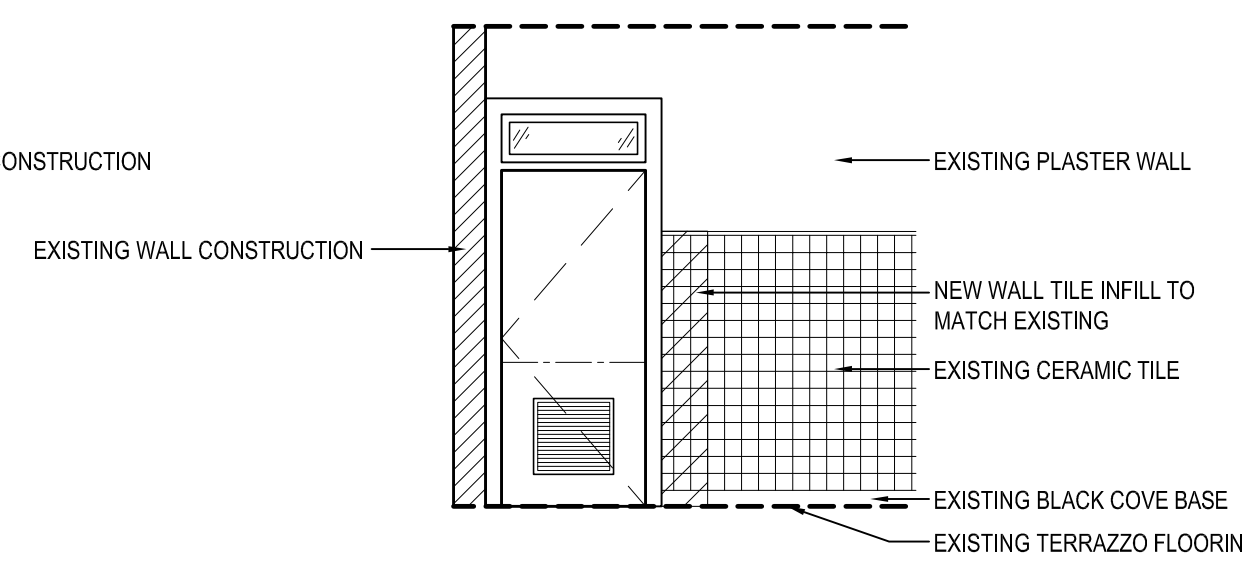
**5 PROPOSED DOOR ELEVATION**  
CORRIDOR  
SCALE: 1/4" = 1'-0"



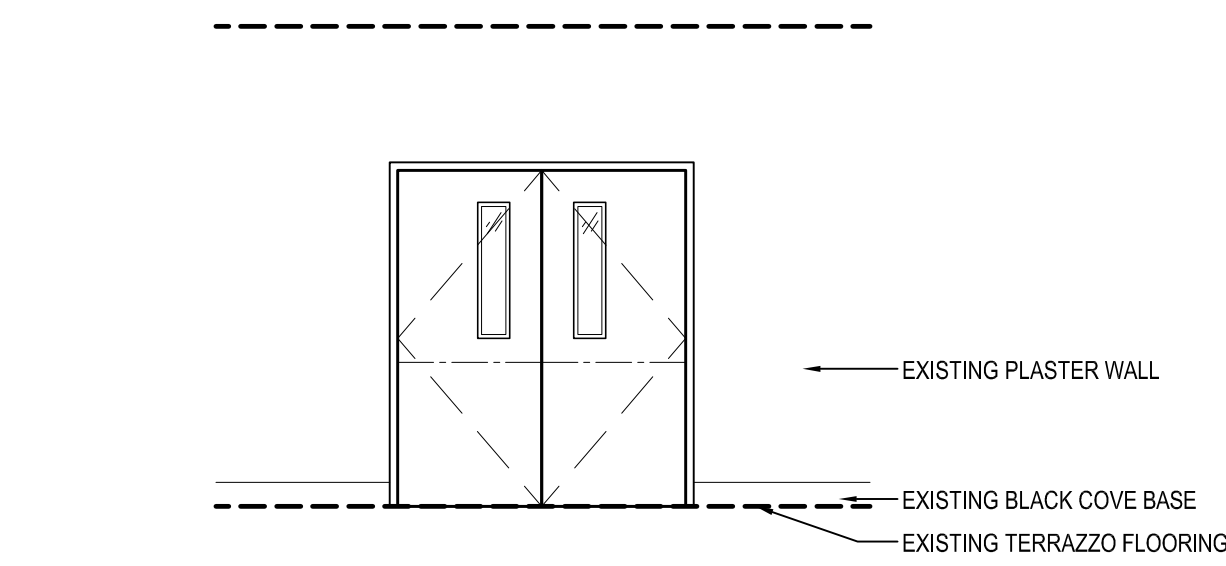
**6 PROPOSED DOOR ELEVATION**  
TOILET INTERIOR  
SCALE: 1/4" = 1'-0"



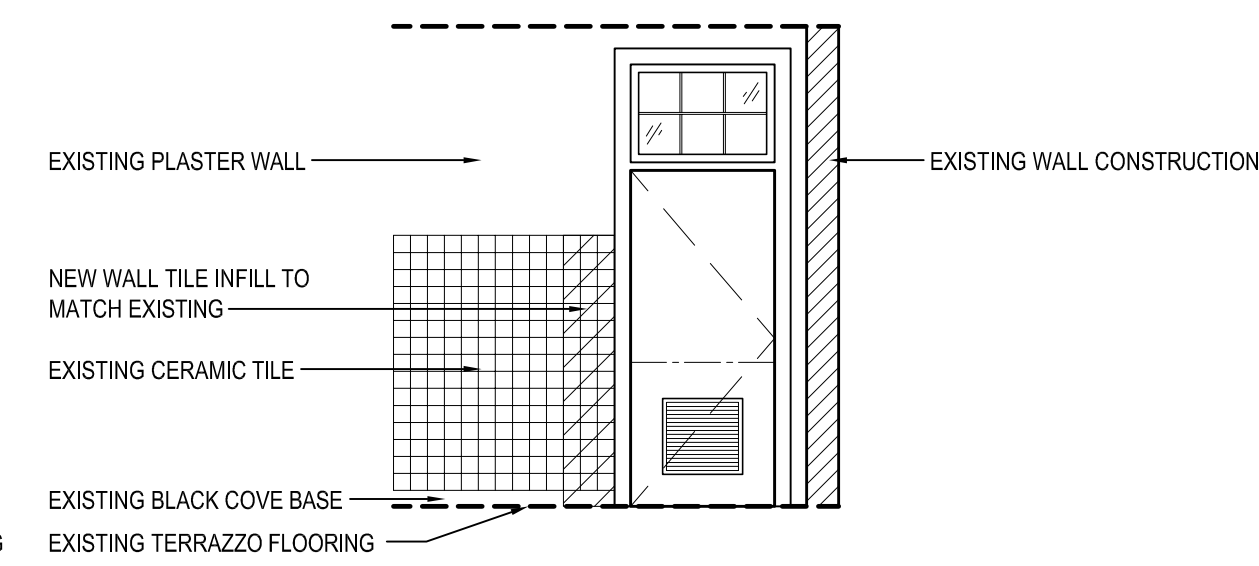
**7 PROPOSED DOOR ELEVATION**  
TOILET INTERIOR  
SCALE: 1/4" = 1'-0"



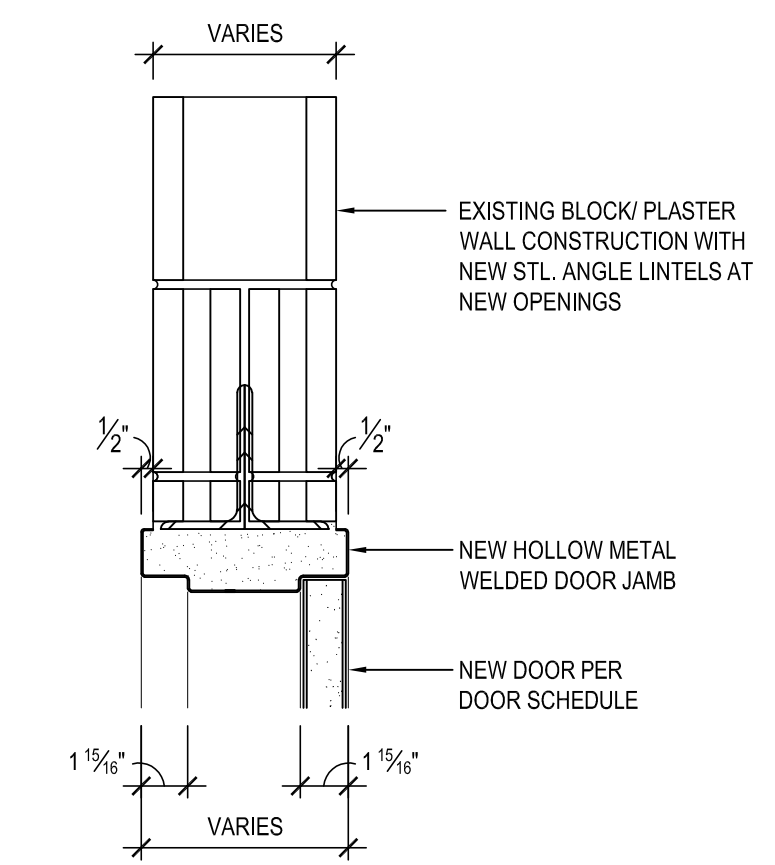
**8 PROPOSED DOOR ELEVATION**  
TOILET INTERIOR  
SCALE: 1/4" = 1'-0"



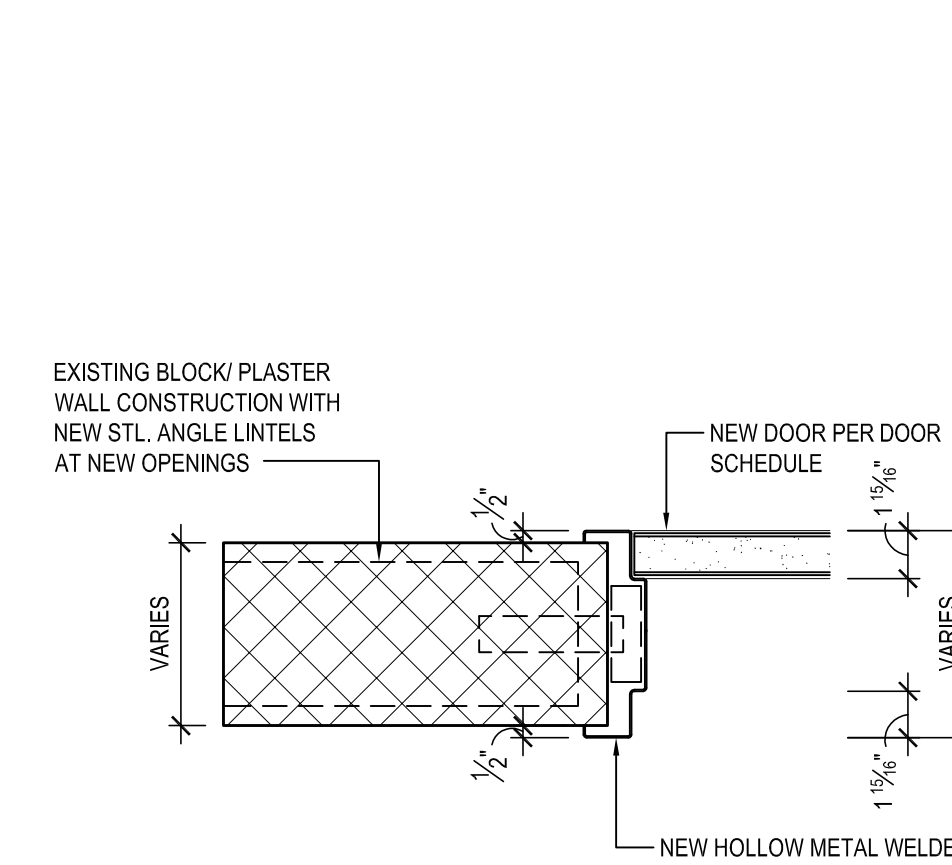
**9 PROPOSED DOOR ELEVATION**  
LIBRARY INTERIOR  
SCALE: 1/4" = 1'-0"



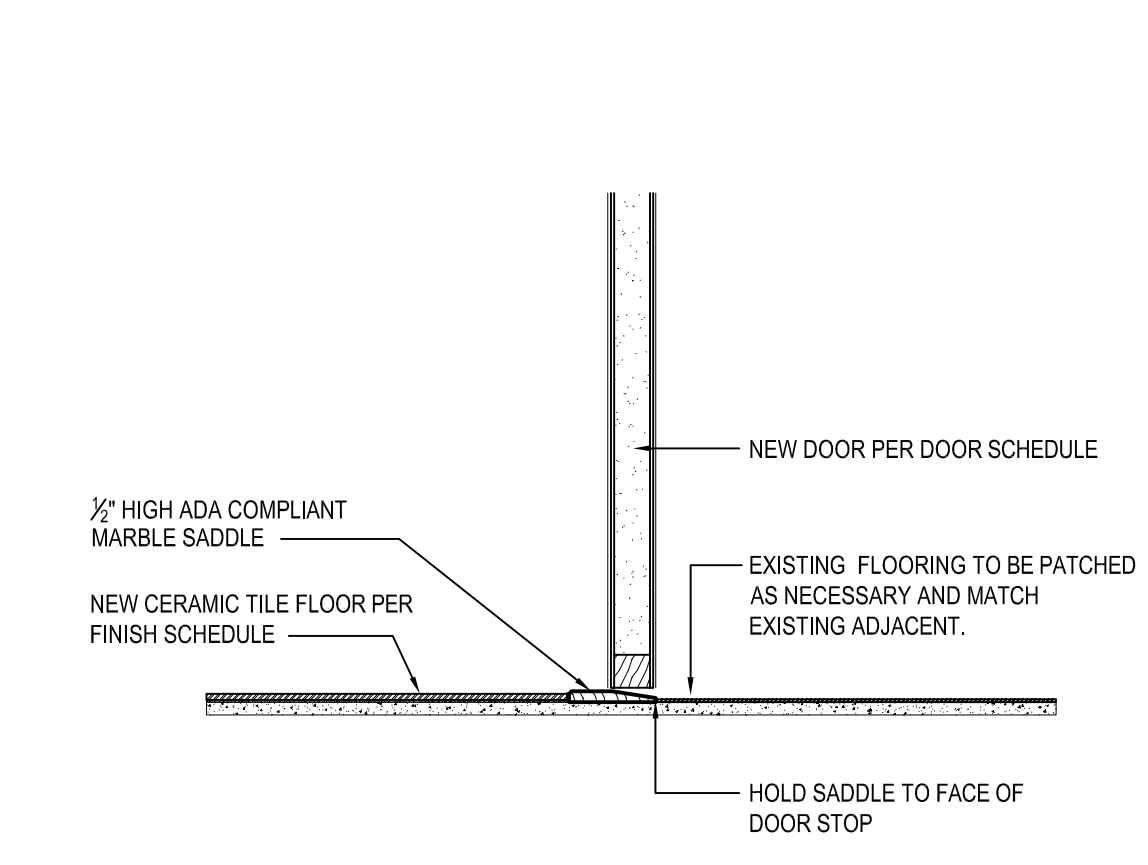
**10 PROPOSED DOOR ELEVATION**  
TOILET INTERIOR  
SCALE: 1/4" = 1'-0"



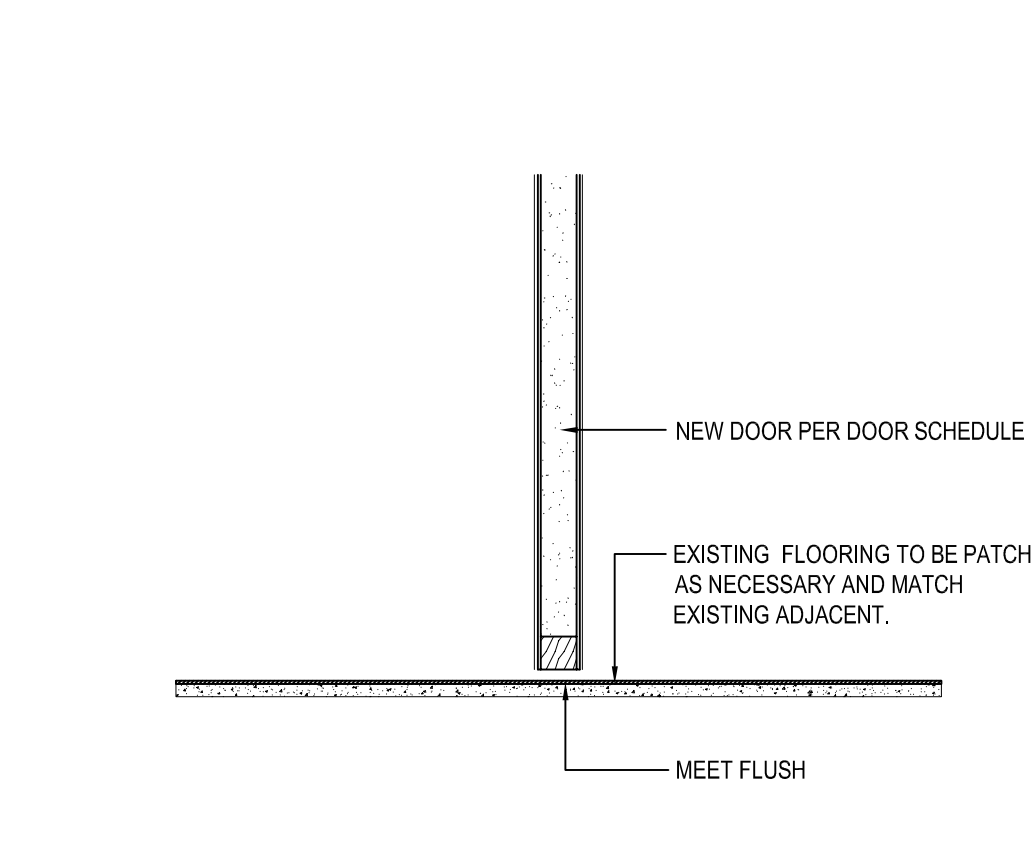
**H1 HEAD DETAIL**  
SCALE: 1-1/2" = 1'-0"



**J1 JAMB DETAIL**  
SCALE: 1-1/2" = 1'-0"



**T1 THRESHOLD DETAIL**  
NOTE: SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A117.1-2009  
SCALE: 1-1/2" = 1'-0"



**T2 THRESHOLD DETAIL**  
SCALE: 1-1/2" = 1'-0"

REV.	DATE	ITEM

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**KEY PLAN**

NOT TO SCALE

**PROJECT**

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

**DWG TITLE**

DOOR DETAILS

DRAWING BY: S.E.S.  
CHECK BY: J.W.W.

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F. 631.475.0361

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DISTRICT: GREENBURGH CSD

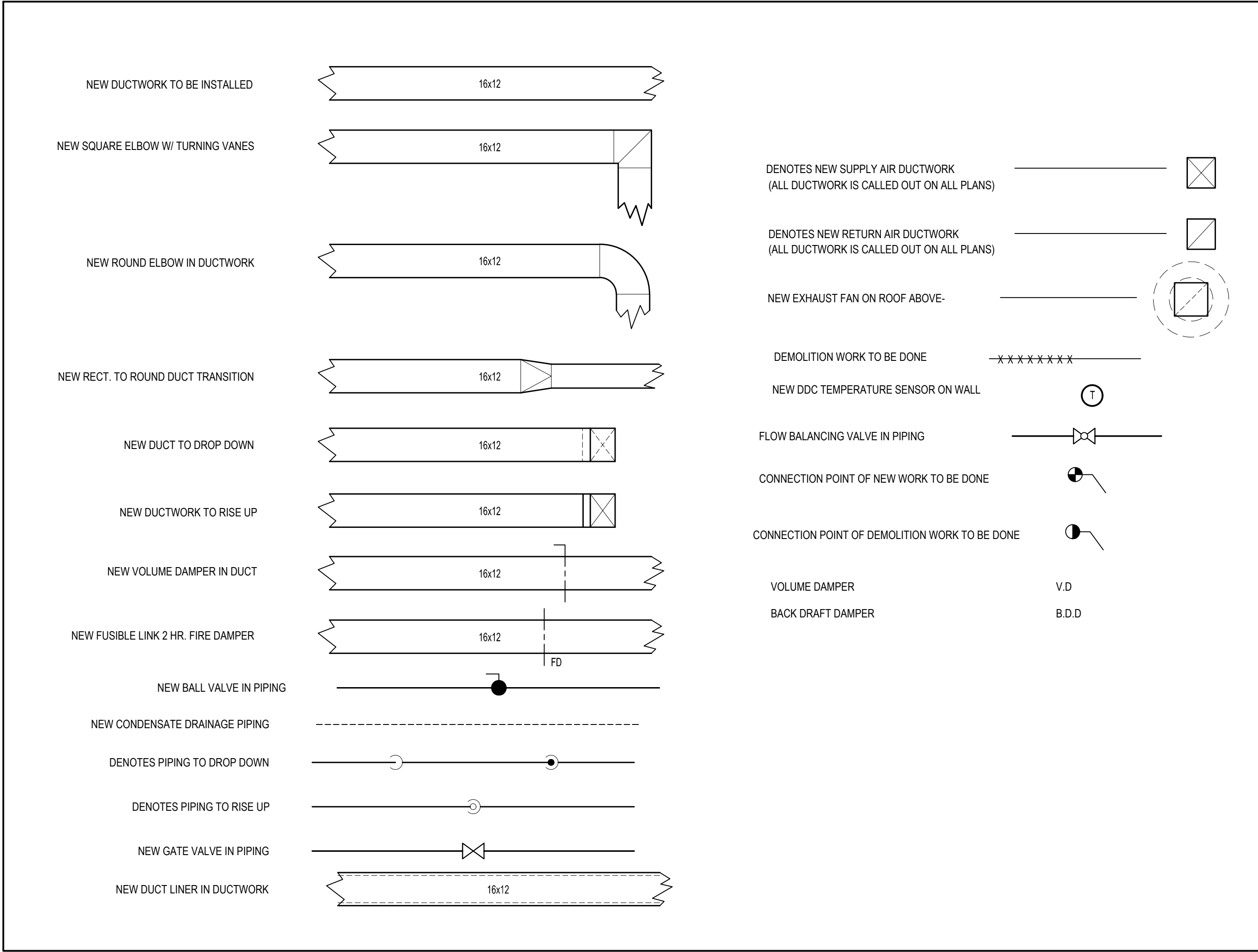
PROJECT: PH. I - DW CAP. IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE: DOOR DETAILS

SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-290

**A8.02C**

MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS



CONTRACTOR ABBREVIATIONS:

M.C. = MECHANICAL CONTRACTOR

C.C. = CONTROLS CONTRACTOR

R.C. = CERTIFIED ROOFING CONTRACTOR

P.C. = PLUMBING CONTRACTOR

E.C. = ELECTRICAL CONTRACTOR

VENTILATION SCHEDULE

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	OAI (CFM) Supplied
1	Auditorium	150	5	0.06	0	3784	568	3068	1	3068	4000
2	Stages OR Studio	70	10	0.06	0	763	54	586	1	586	600
_002	Classroom (age 9 plus)	35	10	0.12	0	576	21	280	0.8	350	350
_002A Comp Rm	Classroom (age 9 plus)	35	10	0.12	0	576	21	280	0.8	350	350
_004	Classroom (age 9 plus)	35	10	0.12	0	878	31	416	0.8	520	520
_006	Classroom (age 9 plus)	35	10	0.12	0	486	18	239	0.8	299	300
_008	Classroom (age 9 plus)	35	10	0.12	0	569	20	269	0.8	337	340
_003	Classroom (age 9 plus)	35	10	0.12	0	324	12	159	0.9	177	200
_012a	Classroom (age 9 plus)	35	10	0.12	0	275	10	133	0.8	167	180
_012	Classroom (age 9 plus)	35	10	0.12	0	716	26	346	0.8	433	450
_013	Classroom (age 9 plus)	35	10	0.12	0	582	21	280	0.8	350	360
_BSM Art Room	Classroom (age 9 plus)	35	10	0.12	0	1126	40	536	0.9	596	600
_Computer Room	Classroom (age 9 plus)	35	10	0.12	0	1400	49	658	0.9	732	730
100	Classroom (age 9 plus)	35	10	0.12	0	890	32	427	0.9	475	475
101	Classroom (age 9 plus)	35	10	0.12	0	680	24	322	0.9	358	360
102	Classroom (age 9 plus)	35	10	0.12	0	788	28	375	0.9	417	420
103	Classroom (age 9 plus)	35	10	0.12	0	653	23	309	0.9	344	350
104	Classroom (age 9 plus)	35	10	0.12	0	488	18	239	0.9	266	270
106	Classroom (age 9 plus)	35	10	0.12	0	575	21	279	0.9	310	350
108	Classroom (age 9 plus)	35	10	0.12	0	568	20	269	0.9	299	300
112	Classroom (age 9 plus)	35	10	0.12	0	577	21	280	0.9	312	320
114	Classroom (age 9 plus)	35	10	0.12	0	462	17	226	0.9	252	250
113	Classroom (age 9 plus)	35	10	0.12	0	479	17	228	0.9	254	250
200A	Classroom (age 9 plus)	35	10	0.12	0	674	24	321	0.9	357	260
201	Classroom (age 9 plus)	35	10	0.12	0	678	24	322	0.9	358	360
202	Classroom (age 9 plus)	35	10	0.12	0	623	22	295	0.9	328	330
203	Classroom (age 9 plus)	35	10	0.12	0	678	24	322	0.9	358	360
204	Classroom (age 9 plus)	35	10	0.12	0	721	26	347	0.9	386	400
204A	Classroom (age 9 plus)	35	10	0.12	0	178	7	92	0.9	103	120
206	Classroom (age 9 plus)	35	10	0.12	0	609	22	294	0.9	327	330
200A	Classroom (age 9 plus)	35	10	0.12	L	674	24	321	0.9	357	260
208	Classroom (age 9 plus)	35	10	0.12	0	632	23	306	0.9	340	340
210	Libraries	10	5	0.12	0	1213	13	211	0.9	235	240
212	Classroom (age 9 plus)	35	10	0.12	0	544	20	266	0.9	296	300
214	Classroom (age 9 plus)	35	10	0.12	0	510	18	242	0.9	269	270
213	Classroom (age 9 plus)	35	10	0.12	0	632	23	306	0.9	340	340

GENERAL NOTES

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

THE MECHANICAL CONTRACTOR (M.C.) SHALL BE ENTIRELY RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING EQUIPMENT LAYOUT, DIMENSIONS, EXISTING PIPING & DUCTWORK SIZES IN THE FIELD PRIOR TO THE START OF ANY WORK. M.C. SHALL SUBMIT DETAILED SCALED SHOP DRAWINGS OF PROPOSED DUCTWORK, EQUIPMENT LAYOUT, PIPING, ETC FOR REVIEW AND APPROVAL PROCESS.

FIRE STOPPING NOTES

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

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
  - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
  - AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
  - AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
  - AT SUCTION & DISCHARGE OF EACH PUMP.
  - FOR EACH MAKEUP WATER LINE.
  - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
  - AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
  - AT ALL EXPANSION / COMPRESSION TANKS.

PIPING SYSTEMS AND EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" RH-VENT OR EQUIVALENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIN VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIN VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

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

DUCTWORK NOTES

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIUS, THEN RADIUS ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUS ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNITS. LINING IN ADDITION INCLUDE LINISTS IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREEVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

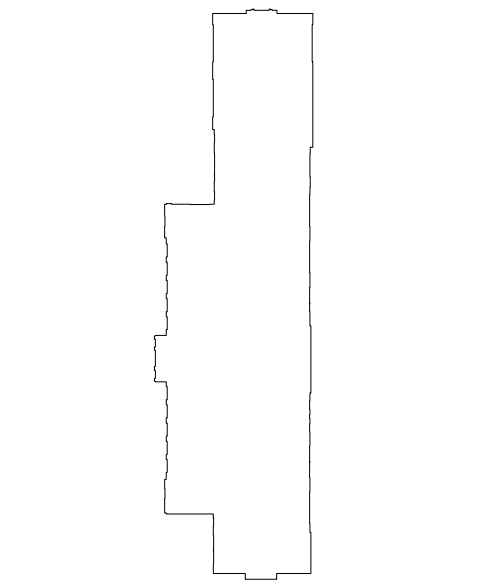
TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 5dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

MECHANICAL GENERAL NOTES

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DISTRICT GREENBURGH CSD

PROJECT PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE MECHANICAL GENERAL  
NOTES

SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

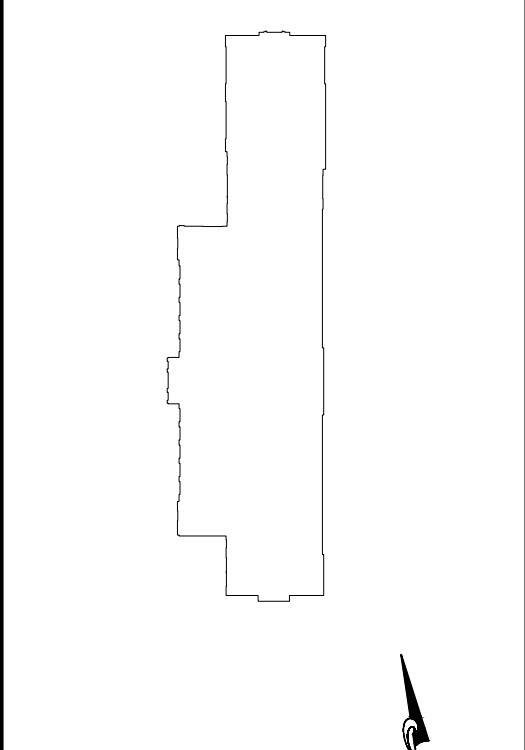
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KEY PLAN

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PROJECT

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

DWG TITLE

MECHANICAL BASEMENT DEMOLITION PLAN

DRAWING BY:

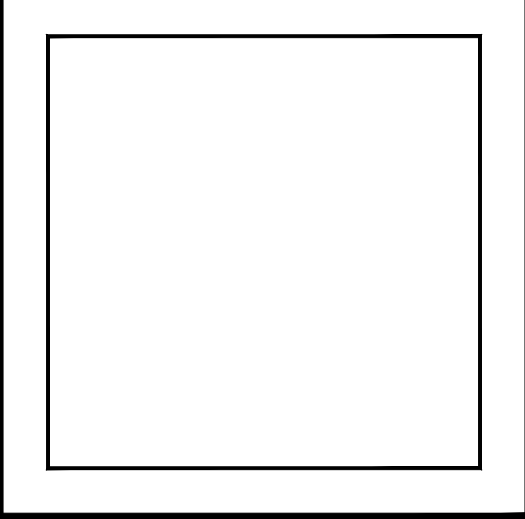
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PROJECT PH. I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE MECHANICAL BASEMENT  
DEMOLITION PLAN

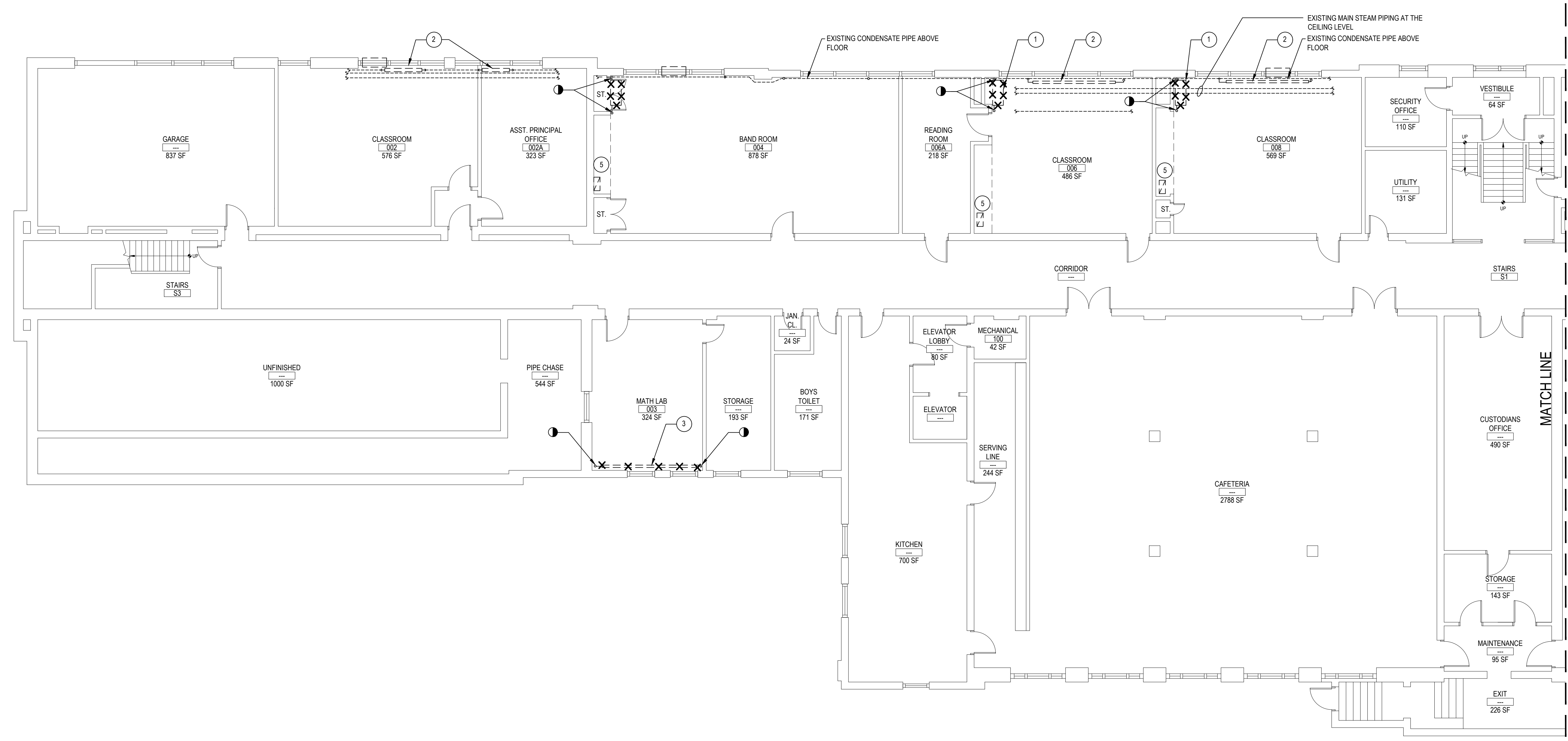
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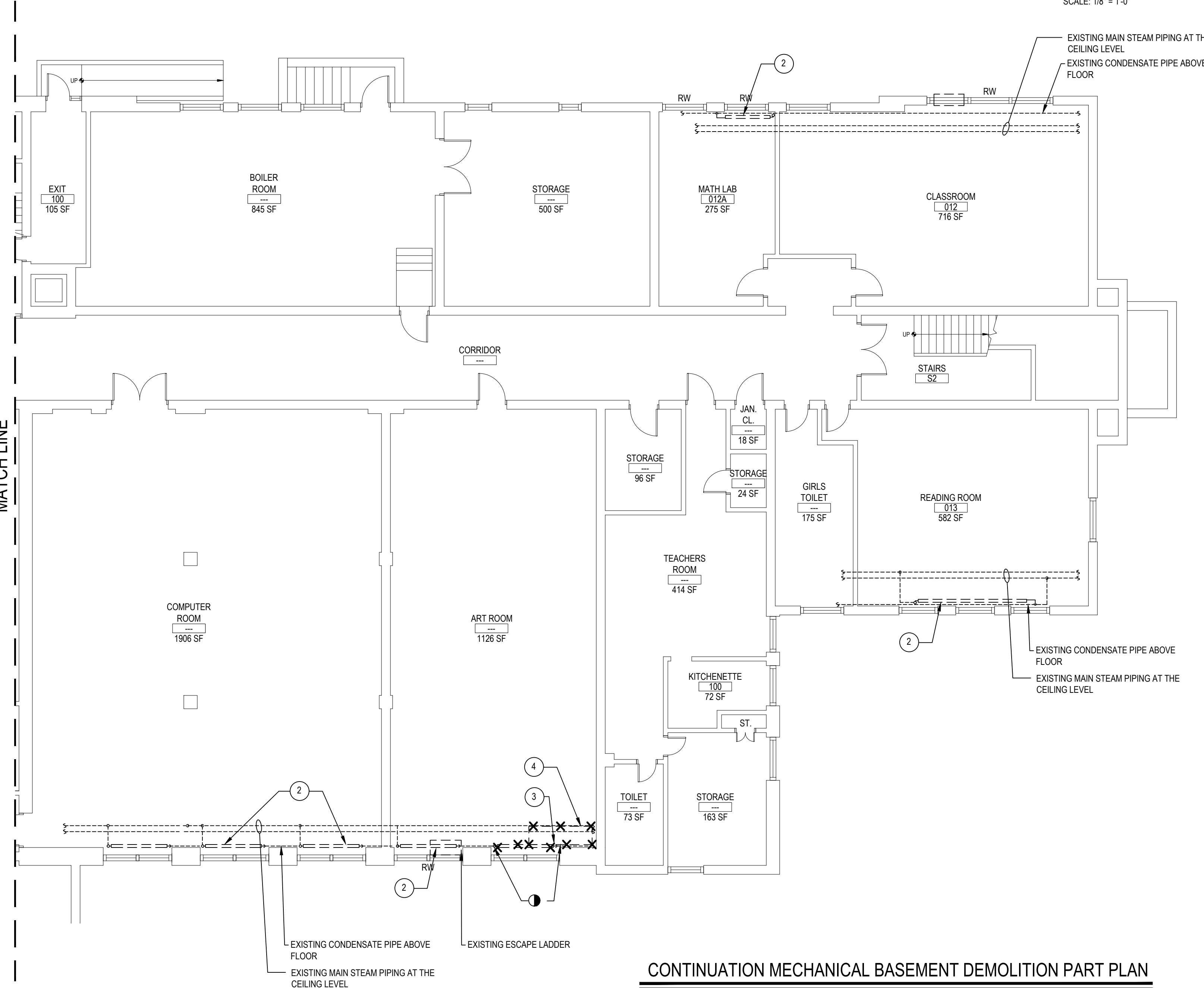
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MECHANICAL BASEMENT DEMOLITION PART PLAN

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



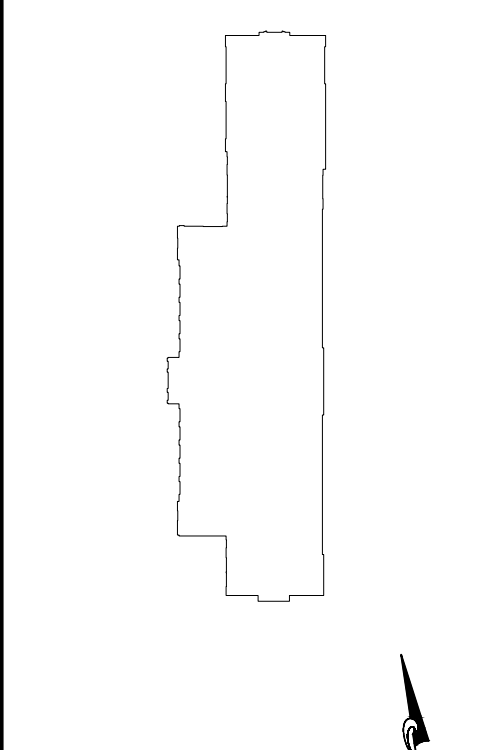
CONTINUATION MECHANICAL BASEMENT DEMOLITION PART PLAN

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

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GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

MECHANICAL BASEMENT NEW PLAN

PROJECT

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R.J. BAILEY E.S.

DWG TITLE MECHANICAL BASEMENT  
NEW PLAN

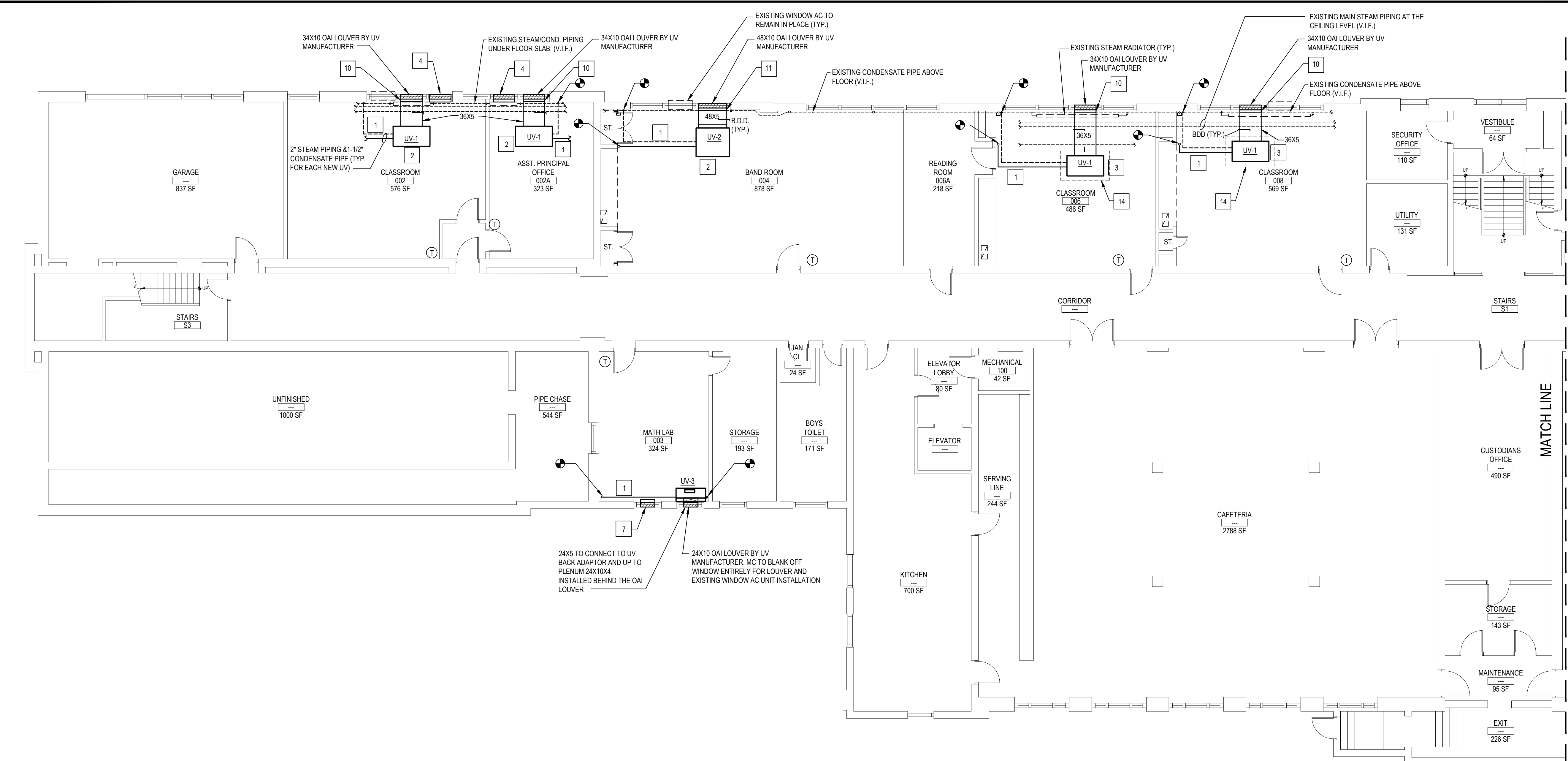
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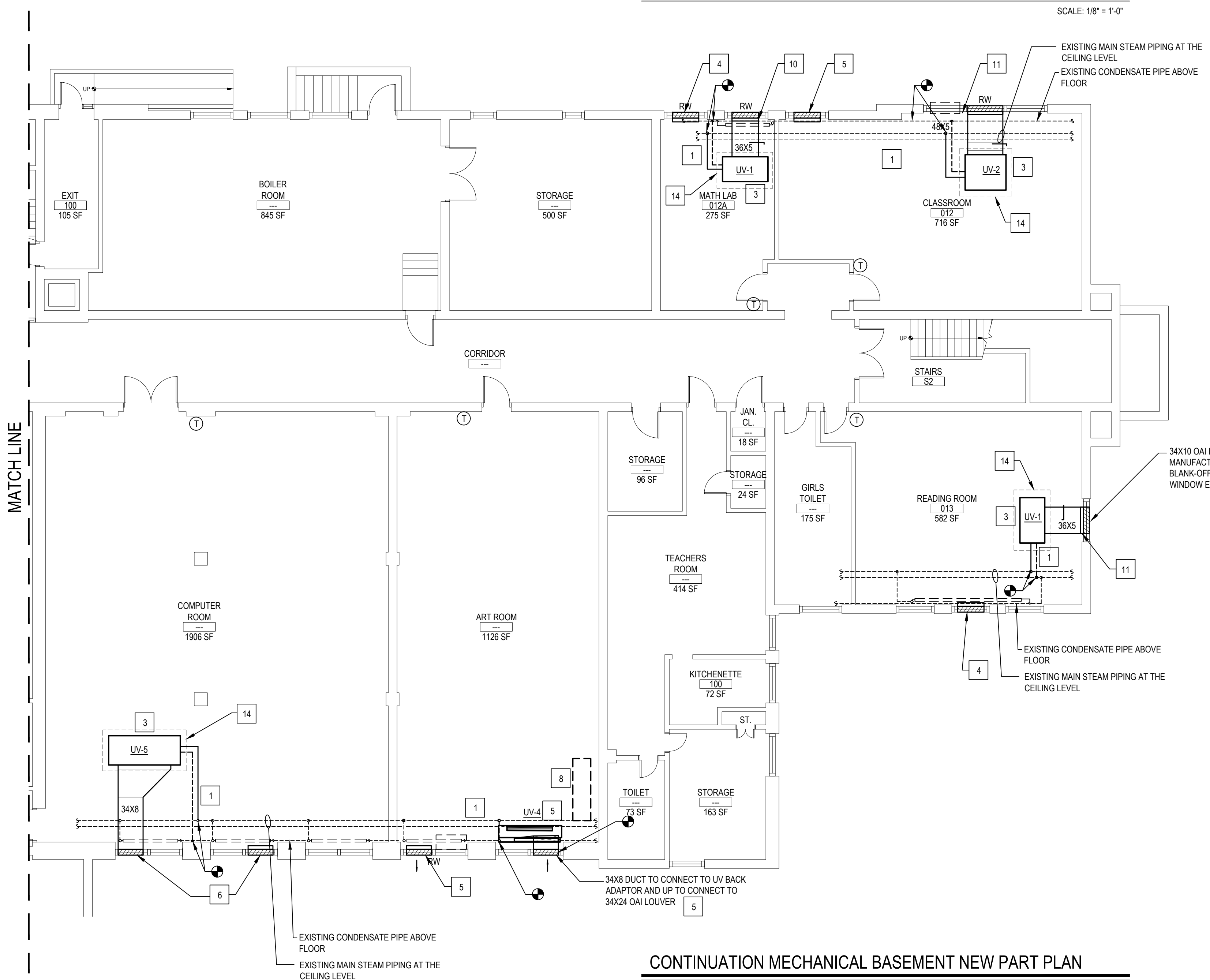
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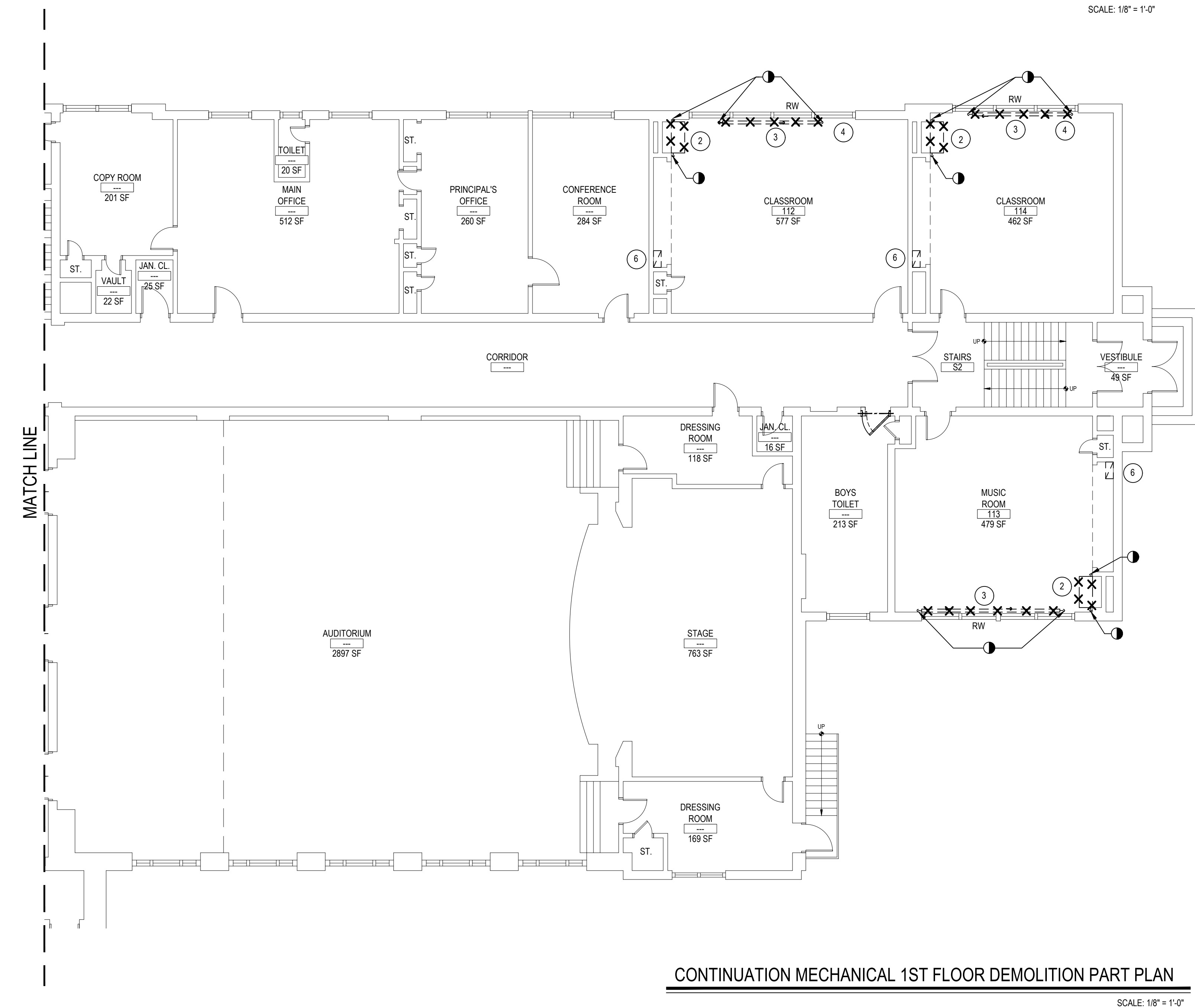
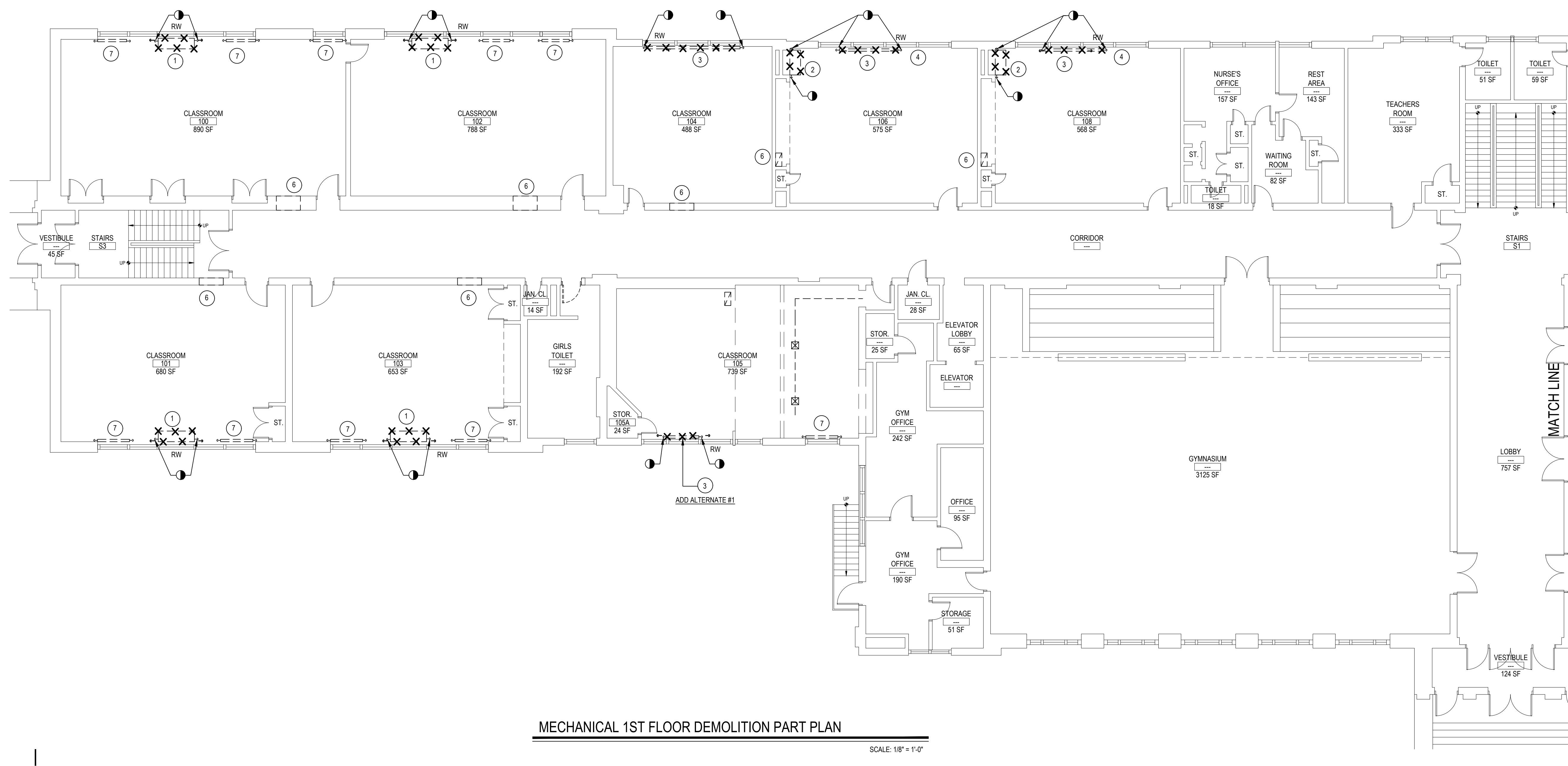
MECHANICAL BASEMENT NEW PART PLAN

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



CONTINUATION MECHANICAL BASEMENT NEW PART PLAN

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



- 1 MC TO SHUT OFF STEAM PIPING. DISCONNECT EXISTING UV AND GAP PIPING BACK TO MAINS. MC TO REMOVE THE UV AND GC PATCH/FLOOR WALLS SEE GENERAL NOTES. MC TO REMOVE EXISTING OIL LOUVER AND REUSE EXISTING WALL OPENING FOR NEW LOUVER INSTALLATION. GC TO ENLARGE EXISTING OPENING IF NECESSARY TO ACCOMMODATE NEW LOUVER INSTALLATION. MC TO COORDINATE WORK WITH GC.
- 2 MC TO SHUT OFF STEAM PIPING. DISCONNECT EXISTING UV AND GAP PIPING BACK TO THE MAINS. MC TO REMOVE THE UV AND GC PATCH CHASE WALL.
- 3 MC TO SHUT OFF STEAM PIPING. DISCONNECT EXISTING STEAM RADIATOR AND GAP PIPING CLOSE TO MAINS. MC TO REMOVE THE RADIATOR AND GC TO PATCH/FLOOR WALL OPENINGS.
- 4 GC TO REMOVE THE SHELF ADJACENT TO THE WINDOW SILL IN ORDER TO ALLOW PROPER FUNCTIONING OF THE NEW UV. GC TO COORDINATE WORK WITH MC.
- 5 NA
- 6 EXISTING 24X10 EXHAUST GRILLE IN CLOSET OR WALL TO REMAIN. (TYP)
- 7 EXISTING STEAM CAST IRON RADIATOR TO REMAIN
- 8 REMOVE SMALL WINDOW FAN IN EACH CLASSROOM WHERE NEW UV IS INSTALLED

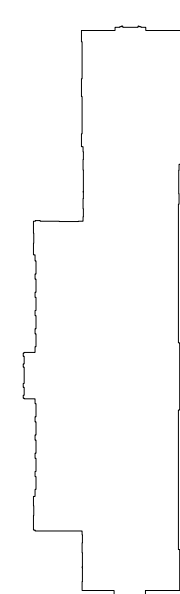
MC CONTRACTOR NOTES

1. MC TO FIELD VERIFY EXACT LOCATION OF EXISTING MAIN STEAM AND CONDENSATE PIPING.
2. MC TO TIE SHUT-OFF & DISCONNECT STEAM AND CONDENSATE PIPING SERVING EXISTING UPSTREAM RADIATOR THAT WILL BE REMOVED
3. ALL STEAM/CONDENSATE PIPING MODIFIED OR REUSED ARE TO BE CAPPED BACK TO THE MAINS.
4. MC TO REMOVE ALL EXISTING UNIT VENTILATORS/STEAM RADIATOR AS INDICATE ON DWG. G.C. TO PATCH CHASE WALL TO MATCH EXISTING
5. MC TO CORE DRILL EXISTING FLOOR SLAB TO ACCOMMODATE NEW PIPING. WORK G.C. TO PATCH FLOOR, MATCH EXISTING AND COORDINATE WITH M.C.
6. M.C. TO DRILL WALL IF NEW PENETRATION REQUIRED FOR NEW PIPING AND PATCH WALL.

REV.	DATE	ITEM

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## KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL

MECHANICAL 1ST FLOOR DEMOLITION PLAN

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	R.J. BAILEY E.S.

DWG TITLE	MECHANICAL 1ST FLOOR DEMOLITION PLAN
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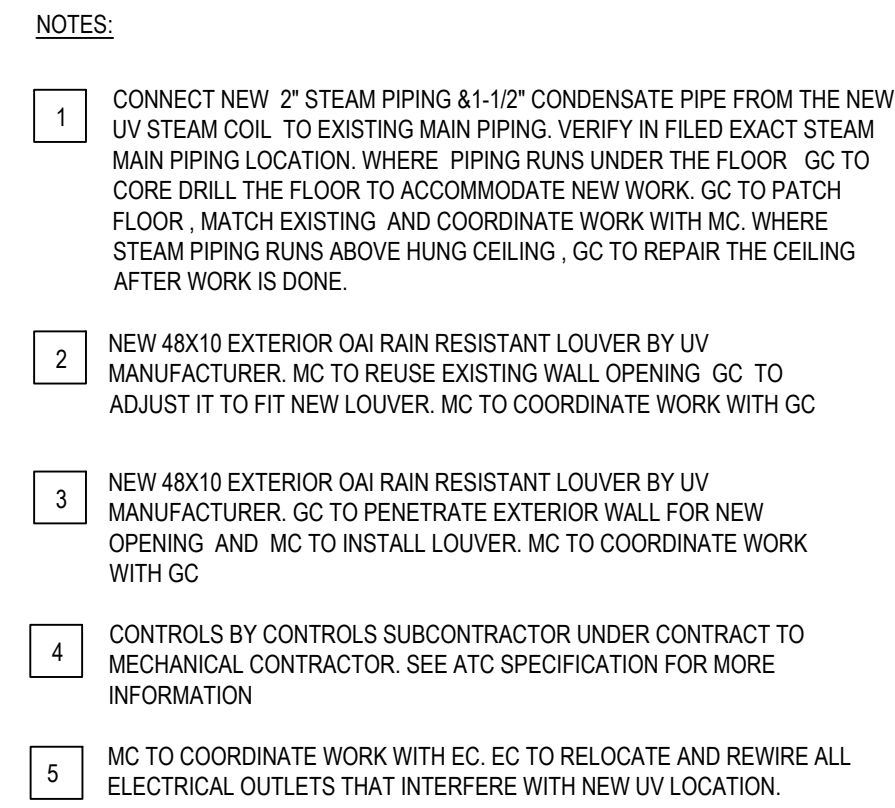
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DATE: MAY 2022

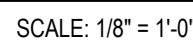
BID PICK-UP: MAY 27, 2021

FILE No: 21-290

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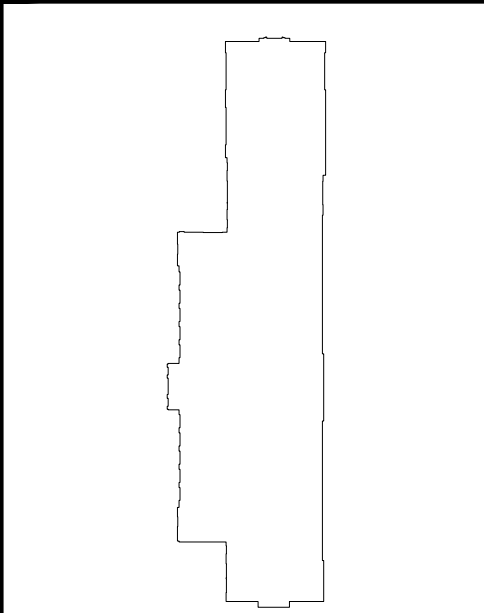


SCALE: 1/8" = 1'-0"



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PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

MECHANICAL 1ST FLOOR NEW PLAN

PROJECT

**DWG TITLE**

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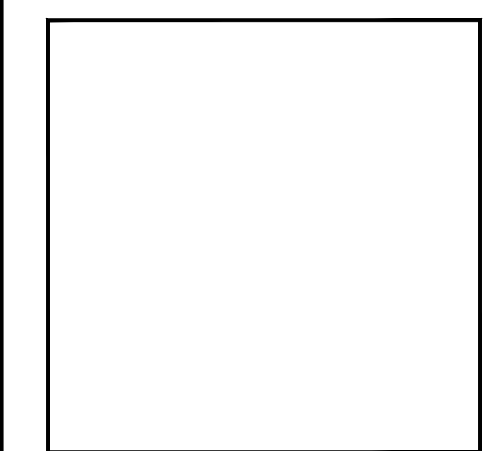
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PROJECT	PH. I - DW CAP. IMPROVEMENT R.J. BAILEY E.S.
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DWG TITLE	MECHANICAL 1ST FLOOR NEW PLAN
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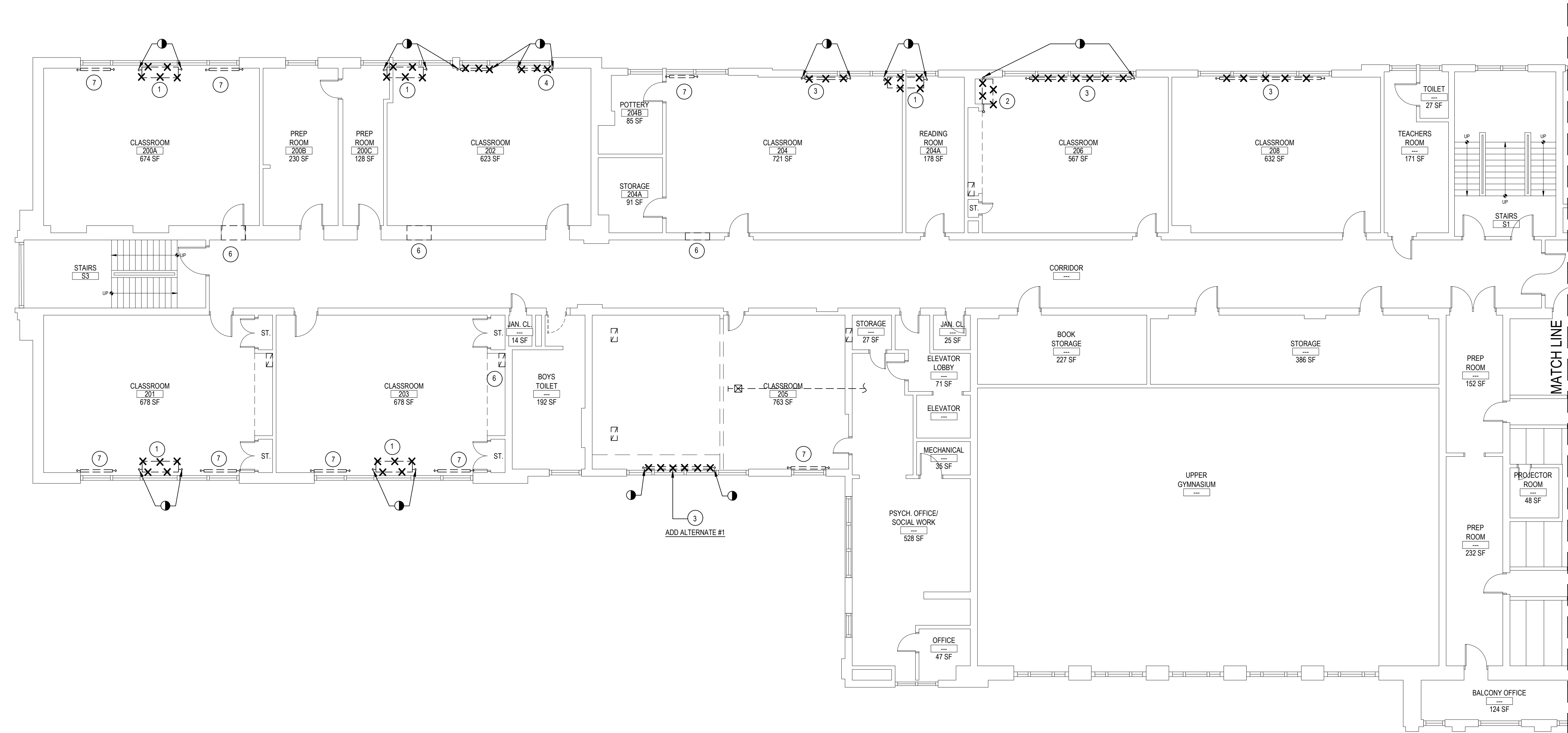
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BID PICK-UP: MAY 27, 2021

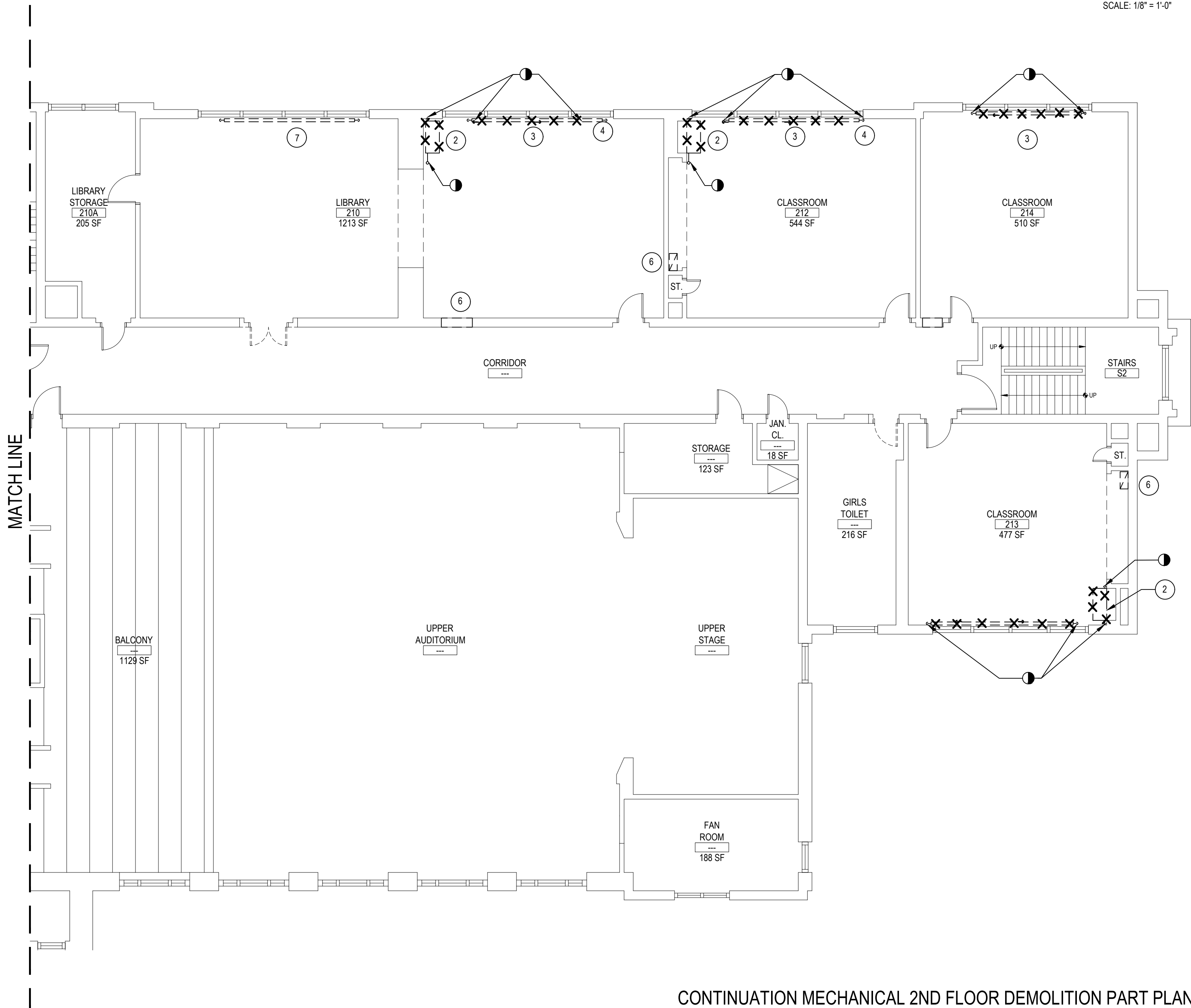
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MECHANICAL 2ND FLOOR DEMOLITION PART PLAN

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



CONTINUATION MECHANICAL 2ND FLOOR DEMOLITION PART PLAN

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

NOTES:

1. MC TO SHUT-OFF STEAM PIPING. DISCONNECT EXISTING UV AND CAP PIPING BACK TO MAINS. MC TO REMOVE THE UV AND GC PATCH FLOOR WALL (SEE GENERAL NOTES). MC TO REMOVE EXISTING CH/L LOUVER AND REUSE EXISTING WALL OPENING FOR NEW LOUVER INSTALLATION. GC TO ENLARGE EXISTING OPENING IF NECESSARY TO ACCOMMODATE NEW LOUVER INSTALLATION. MC TO COORDINATE WORK WITH GC.
2. MC TO SHUT-OFF STEAM PIPING. DISCONNECT EXISTING UV AND CAP PIPING BACK TO THE MAINS. MC TO REMOVE THE UV AND GC PATCH CHASE WALL.
3. MC TO SHUT-OFF STEAM PIPING. DISCONNECT EXISTING STEAM RADIATOR AND CAP PIPING CLOSE TO MAINS. MC TO REMOVE THE RADIATOR AND GC TO PATCH FLOOR WALL OPENINGS.
4. GC TO REMOVE THE SHELF ADJACENT TO THE WINDOW SILL IN ORDER TO ALLOW PROPER FUNCTIONING OF THE NEW UV. GC TO COORDINATE WORK WITH MC.
5. NA.
6. EXISTING 24X10 EXHAUST GRILLE IN CLOSET OR WALL TO REMAIN. (TYP.)
7. EXISTING STEAM CAST IRON RADIATOR TO REMAIN.
8. REMOVE SMALL WINDOW FAN IN EACH CLASSROOM WHERE NEW UV IS INSTALLED.

MC CONTRACTOR NOTES:

1. MC TO FIELD VERIFY EXACT LOCATION OF EXISTING MAIN STEAM AND CONDENSATE PIPING.
2. MC TO SHUT-OFF & DISCONNECT STEAM AND CONDENSATE PIPING SERVING EXISTING UV/STEAM RADIATOR THAT WILL BE REMOVED.
3. ALL STEAM/CONDENSATE PIPING MODIFIED OR REUSED ARE TO BE CAPPED BACK TO THE MAINS.
4. MC TO REMOVE ALL EXISTING UNIT VENTILATORS/STEAM RADIATOR AS INDICATE ON DWG. G.C. TO PATCH CHASE WALL TO MATCH EXISTING.
5. MC TO CORE DRILL EXISTING FLOOR SLAB TO ACCOMMODATE NEW PIPING WORK. G.C. TO PATCH FLOOR, MATCH EXISTING AND COORDINATE WITH M.C.
6. M.C. TO DRILL WALL IF NEW PENETRATION REQUIRED FOR NEW PIPING AND PATCH WALL.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
MECHANICAL 2ND FLOOR DEMOLITION PLAN

DRAWING BY: D.S.  
CHECK BY: D.S.

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SED No: 66-04-07-06-0-005-012

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE: MECHANICAL 2ND FLOOR  
DEMOLITION PLAN

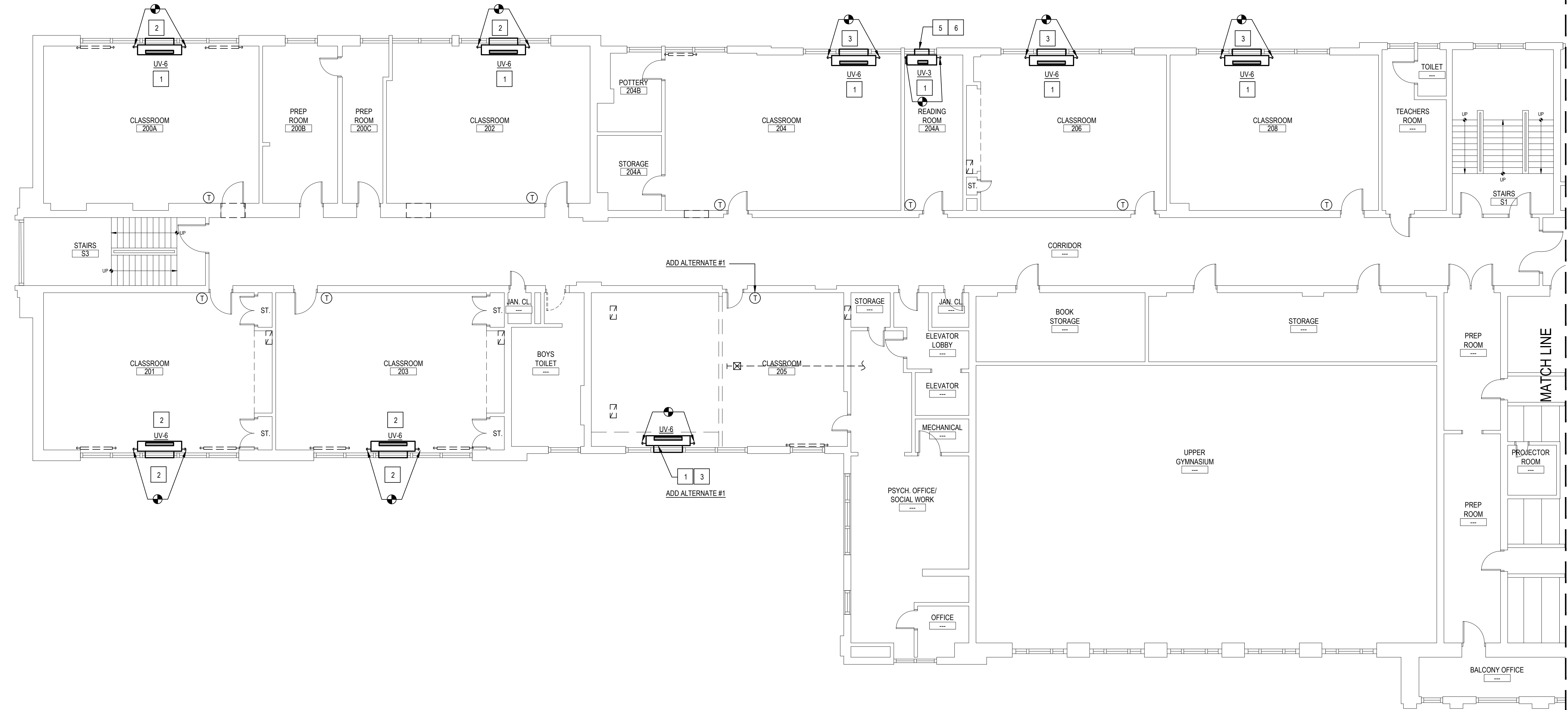
SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

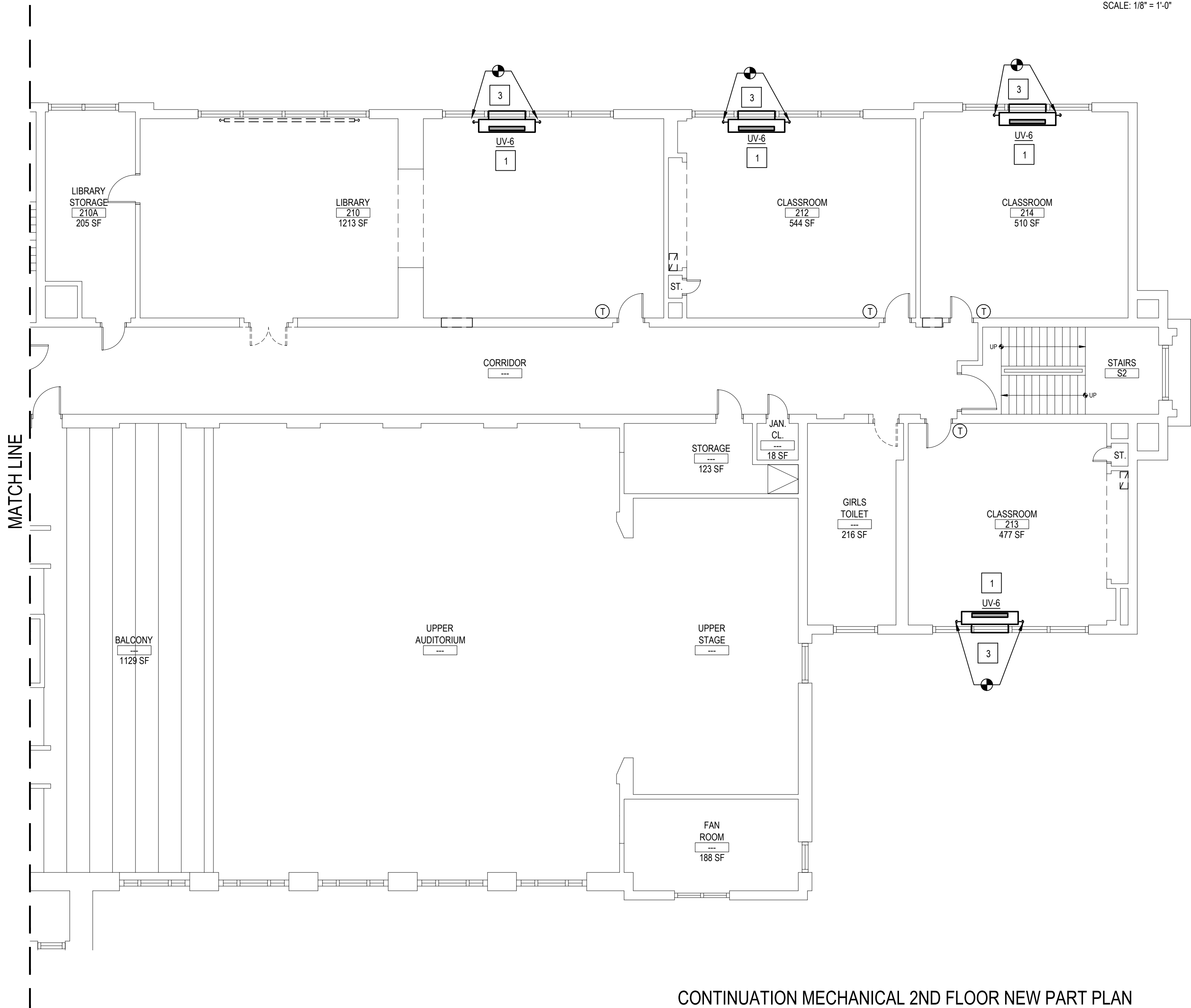
FILE No: 21-290

M3.01C OF ---



MECHANICAL 2ND FLOOR NEW PART PLAN

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



CONTINUATION MECHANICAL 2ND FLOOR NEW PART PLAN

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

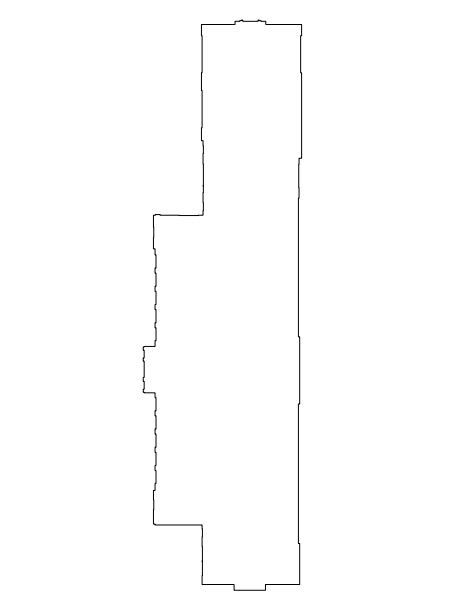
NOTES:

1. CONNECT NEW 2" STEAM PIPING & 1-1/2" CONDENSATE PIPE FROM THE NEW UV STEAM COIL TO EXISTING MAIN PIPING. VERIFY IN FIELD EXACT STEAM MAIN PIPING LOCATION WHERE PIPING RUNS UNDER THE FLOOR. GC TO CORE DRILL THE FLOOR TO ACCOMMODATE NEW WORK. GC TO PATCH FLOOR. MATCH EXISTING AND COORDINATE WORK WITH MC. WHERE STEAM PIPING RUNS ABOVE HUNG CEILING, GC TO REPAIR THE CEILING AFTER WORK IS DONE.
2. NEW 48X10 EXTERIOR OAI RAIN RESISTANT LOUVER BY UV MANUFACTURER. MC TO REUSE EXISTING WALL OPENING. GC TO ADJUST IT TO FIT NEW LOUVER. MC TO COORDINATE WORK WITH GC.
3. NEW 48X10 EXTERIOR OAI RAIN RESISTANT LOUVER BY UV MANUFACTURER. GC TO PENETRATE EXTERIOR WALL FOR NEW OPENING AND MC TO INSTALL LOUVER. MC TO COORDINATE WORK WITH GC.
4. MC TO COORDINATE WORK WITH EC. EC TO RELOCATE AND REWIRE ALL ELECTRICAL OUTLETS THAT INTERFERE WITH NEW UV LOCATION.
5. NEW 24X10 EXTERIOR OAI RAIN RESISTANT LOUVER BY UV MANUFACTURER. GC TO PENETRATE EXTERIOR WALL FOR NEW OPENING AND MC TO INSTALL LOUVER. MC TO COORDINATE WORK WITH GC.
6. NEW RELIEF LOUVER INSTALLED IN THE EXISTING METAL WINDOW PAN, 24X16 GREENHECK MODEL EHH-401, WITH RELIEF DAMPER MODEL BR-30. MC TO PROVIDE A DUCT SLEEVE TO MATE THE LOUVER AND THE DAMPER.
7. CONTROLS BY CONTROLS SUBCONTRACTOR UNDER CONTRACT TO MECHANICAL CONTRACTOR. SEE ATC SPECIFICATION FOR MORE INFORMATION.

REV.	DATE	ITEM

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PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
MECHANICAL 2ND FLOOR NEW PLAN

DRAWING BY: D.S.  
CHECK BY: D.S.

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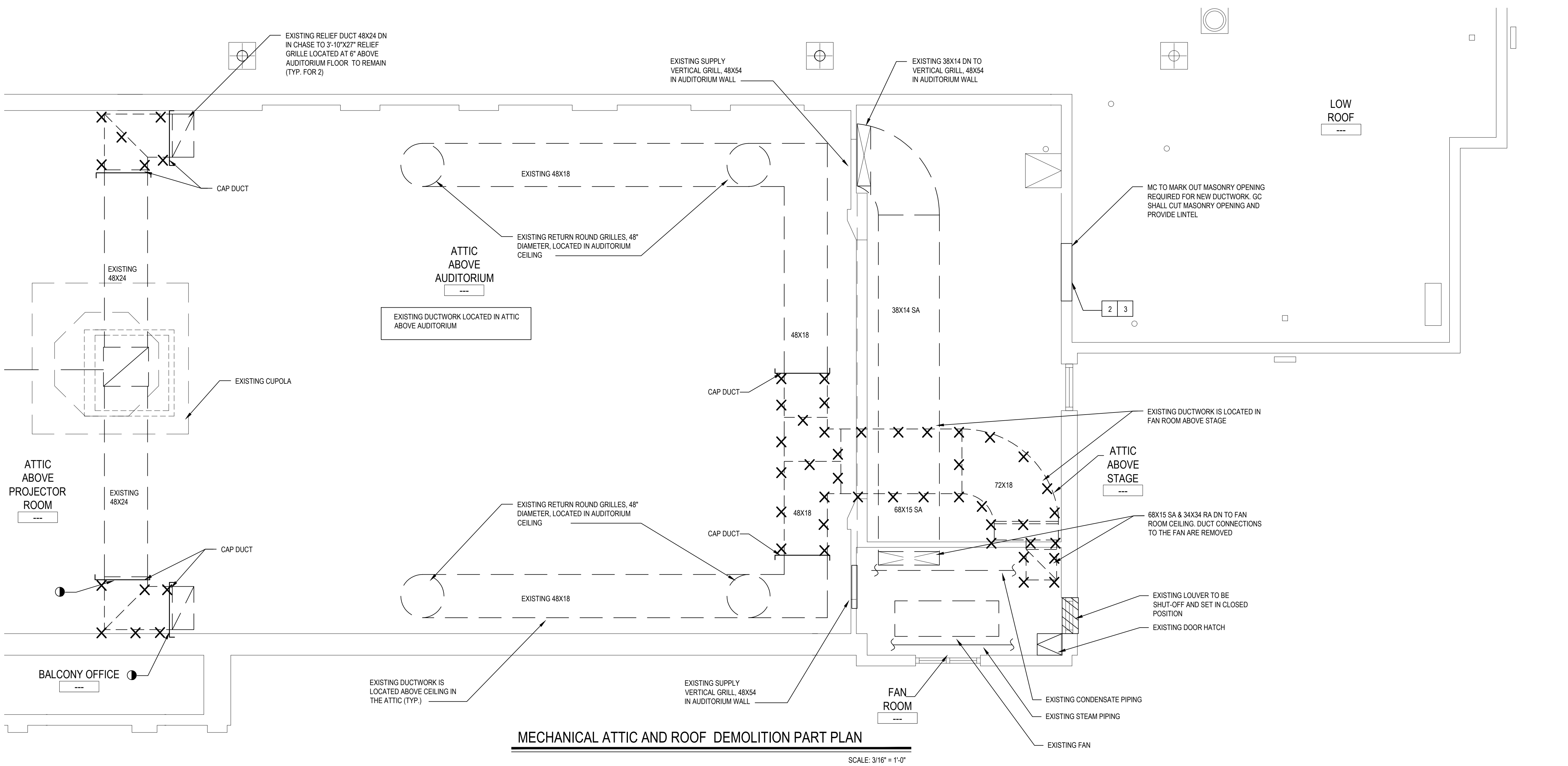
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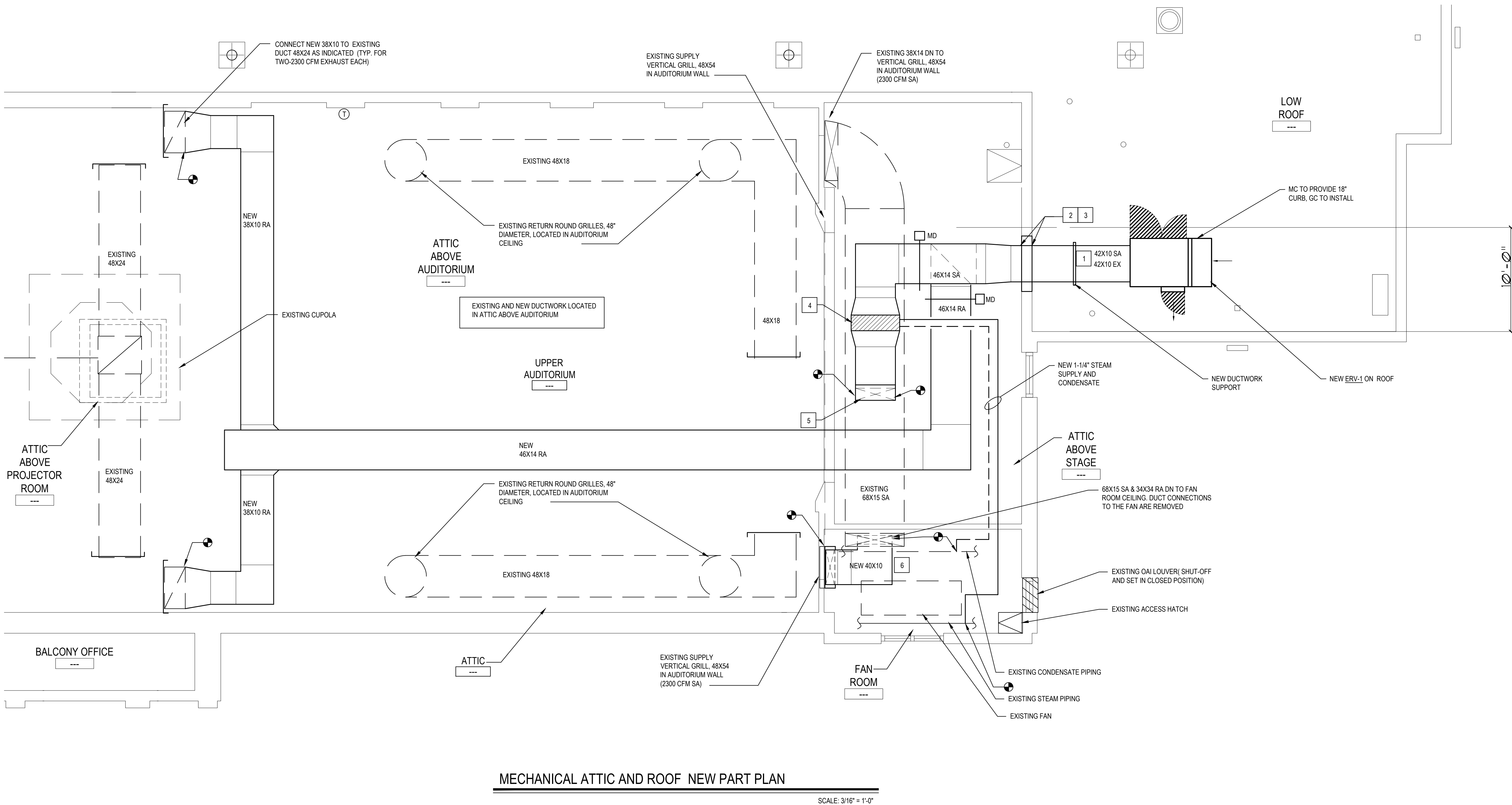
SED No.	66-04-07-06-0-005-012
DISTRICT	GREENBURGH CSD
PROJECT	PH I - DW CAP IMPROVEMENTS R.J. BAILEY E.S.
DWG TITLE	MECHANICAL 2ND FLOOR NEW PLAN
SCALE	AS NOTED
DATE	MAY 2022
BID PICK-UP	MAY 27, 2022
FILE No.	21-290

M3.02C OF ---



NOTES:

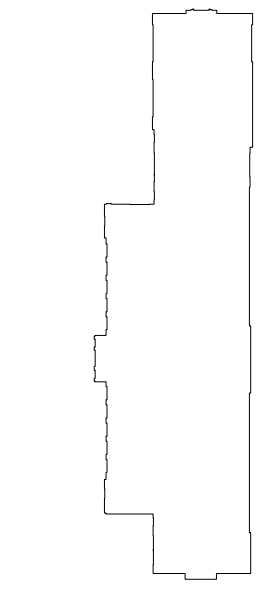
- 1 NEW 46X14 EXHAUST AIR DUCT RUNS UNDERNEATH 46X14 SA DUCT.
- 2 LOCATION OF THE DUCTWORK SIDE WALL PENETRATION NOT TO EXCEED 10'-0" FROM THE ROOF PARAPET. V.I.F. IF THERE IS ENOUGH CLEARANCE TO RUN 42X10/38X14 SA6EX IN THE ATTIC AS INDICATED ON DWG.
- 3 WHERE THE DUCTS 42X10 SA6EX WILL PENETRATE THE WALL, GC TO CUT A 6X6 1/4\"/>



REV.	DATE	ITEM

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RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

MECHANICAL DEMOLITION AND NEW ATTIC AND ROOF PART PLAN

DWG TITLE

DRAWING BY: D.S.

CHECK BY: D.S.

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DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE: MECHANICAL ATTIC AND ROOF  
PART PLAN

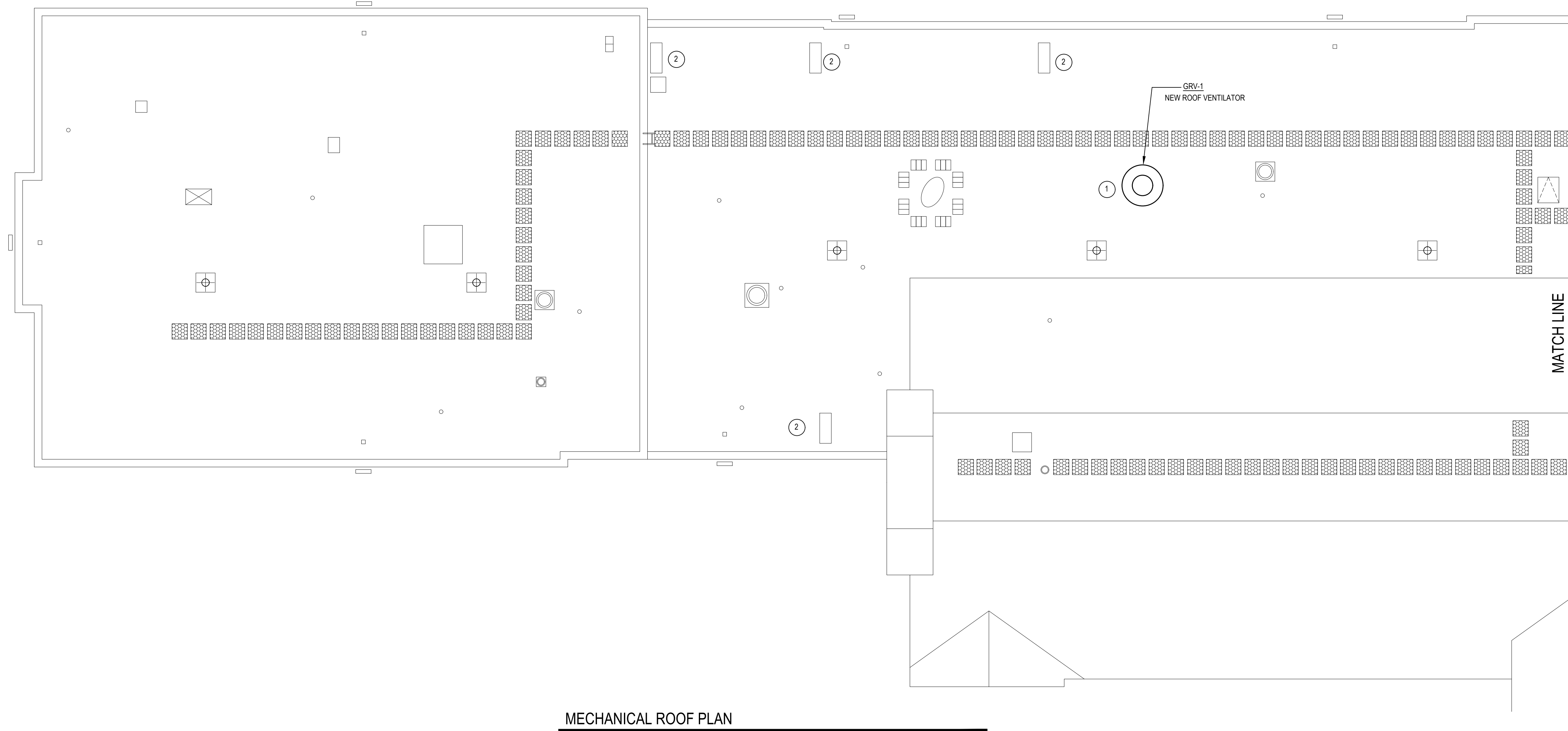
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M4.01C OF ---



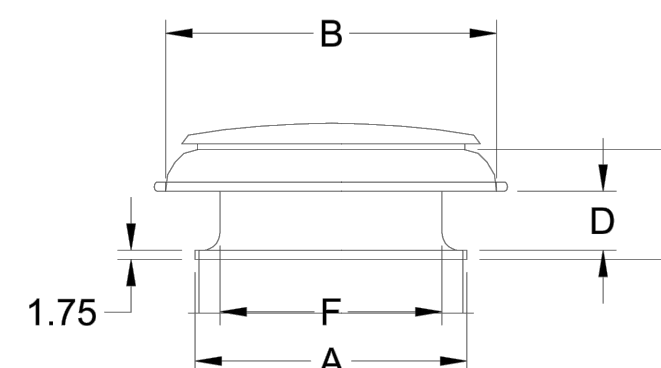
MECHANICAL ROOF PLAN

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

ROOF VENTILATORS SCHEDULE (GREENHECK AS STANDARD)



GRV-1, 2 &3



Model: GRSR

Standard Construction Features:

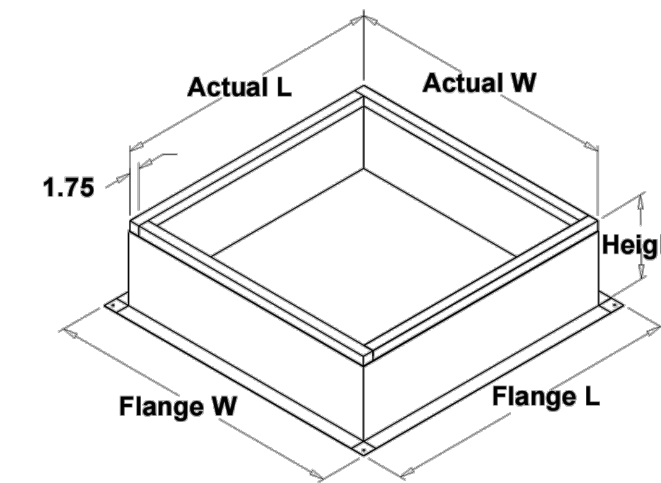
- Aluminum housing - Aluminum curb cap with pre-punched mounting holes.
- Recommended roof opening dimension is at least 2.5 in. larger than the damper size.

Dimensions													
ID#	Tag	Qty	Model	Model Size	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Width (in.)	Length (in.)	Weight (lb)
4-1	GRV-1,2,3	3	GRSR-42	42	52	63.25	26	11.25	N/A	42.5	52	52	60

Construction		Flashing	Installation	Insect	Birdscreen	Unit
ID#	Flange	Type	Screen	Material	Material	
4-1	No	Non-Ducted	No	Galvanized	Aluminum	

Accessories		Hinged	Hood	Tie Down
ID#	Curb Cap	Curb Seal	(in.)	Points
4-1	No	No	None	No

Roof Curbs		Height	Width	Length
ID#	Model	(in.)	(in.)	(in.)
4-1	GPI	12	52	52



Model: GPI

Roof Curb

Standard Construction Features:

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in. increments. Notes - The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in. - The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size. - The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension. - Damper Tray is optional and must be specified. - Tray size is same as damper size. - Security bars are optional and must be specified. - Frames and gridwork are all 12 ga steel. Gridwork is welded to the frame and the frame is welded to the curb.

General			Sizing	Undersizing	Weight	Shipped
ID#	Tag	Qty	Method	(in.)	(lb)	Assembled
4-1		3	Normal	1.5	57	Yes

Dimensions		Nominal	Nominal	Actual	Actual	Flange	Flange
ID#	Curb	Outside	Outside	Outside	Outside	Width	Length
	Height	Width	Length	Width	Length	(in.)	(in.)
4-1	12	52	52	50.5	50.5	54.5	54.5

Accessories		Security	Insulation
ID#	Material	Bars	(in.)
4-1	Galvanized	No	1

CONTINUATION MECHANICAL ROOF PLAN

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

NOTES:

- MC TO REPLACE EXISTING GRAVITY ROOF VENTILATORS WITH NEW TO MATCH EXISTING. ROOF OPENINGS ARE APROX 42". (TYP FOR 3)
- MC TO CAP EXISTING OAI CHASE INTAKE WHICH SERVE EXISTING UNIT VENTILATORS INSIDE THE BUILDING. TYP. FOR 7

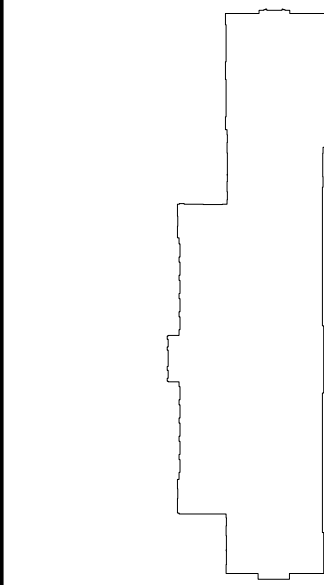
MC CONTRACTOR NOTES:

- MC TO FIELD VERIFY EXACT LOCATION OF EXISTING ROOF VENTILATORS AND EXISTING OAI CHASES
- MC TO MARK OUT LOCATIONS WHERE ROOF OPENINGS NEED TO BE PROVIDED OR ENLARGED AND GENERAL CONTRACTOR TO CUT AND PATCH ALL ROOF OPENINGS. MC TO COORDINATE WORK WITH GC

REV.	DATE	ITEM

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PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

MECHANICAL ROOF PLAN

DWG TITLE

DRAWING BY: D.S.  
CHECK BY: D.S.

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SED No: 66-04-07-06-0-005-012

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE: MECHANICAL ROOF PLAN

SCALE: AS NOTED

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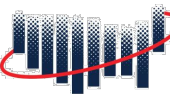
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TERMINAL UNIT SCHEDULE										(MAGIC AIRE AS STANDARD)
Tag No.	MPG / MODEL #	CFM / E.S.P. OA DAMPER POS.	MOTOR (ECM) HP FLA MCA	ELECT. Req. VOLT / PHASE	HEATING COIL TYPE	HEAT OUTPUT / STEAM F.D.	CABINET TYPE	EXTERIOR LOUVER SIZE	COMMENTS/CONTROLS	
UV-1	MAGIC AIRE UNIT VENTILATOR #MAUHF2	750 @ .01 45%	1/3 2.3 2.9	208V, 1 PH.	STEAM 1 COIL ROW	46.8 MBH @ 2PSIG	HORIZONTAL UH	34"x10"	REFER TO ATC SPECIFICATION SECTION 15903 FOR FURTHER DETAILS REGARDING UNIT TEMPERATURE CONTROLS. REFER TO DWGS. RM5.03 FOR PIPING / INSTALLATION DETAILS. PROVIDE NEW CLEAR ANODIZED LOUVER.	
UV-2	MAGIC AIRE UNIT VENTILATOR #MAUHF3	1000 @ .01 45%	1/3 2.6 3.2			62 MBH @ 2PSIG	HORIZONTAL UH	48"x10"		
UV-3	MAGIC AIRE UNIT VENTILATOR #MAUVF1	500 @ .01 45%	1/3 1.3 1.6			37 MBH @ 2PSIG	VERTICAL UV	24"x10"		
UV-4	MAGIC AIRE UNIT VENTILATOR #MAUVF4	1250 @ .01 45%	1/2 3.3 4.1			78 MBH @ 2PSIG	VERTICAL UV	NA	CONTROLS SUBCONTRACTOR. UNDER CONTRACT TO MECHANICAL CONTRACTOR	
UV-5	MAGIC AIRE UNIT VENTILATOR #MAUHF5	1500 @ .01 45%	1/2 3.3 4.1			93.6 MBH @ 2PSIG	HORIZONTAL UH	NA		
UV-6	MAGIC AIRE UNIT VENTILATOR #MAUVF3	1000 @ .01 45%	1/3 2.6 3.2			62 MBH @ 2PSIG	VERTICAL UV	48"x10"		

1. - UNITS SHALL BE 21-7/8" DEEP UNITS.  
- UNITS ARE TO BE EQUIPPED WITH VALVE CONTROL FOR STEAM  
- PROVIDE MERV 13 FILTERS

#### STEAM COIL SCHEDULE

(NATIONWIDE AS STANDARD)

SUBMITTAL DATA

Greenborough

Nationwide Coils Coil SC-1-Alt

Steam Distributing Coil

Tag	Qty	Model	Footnotes	Comment
SC-1-Alt	1	SD58S02D09-18x56-RH	a,b,c	

Construction and Performance Details

Tag	SC-1-Alt
Air flow (SCFM)	4600
Altitude (ft)	0
Total capacity (MBH)	403.0
Entering dry bulb (°F)	11.0
Leaving dry bulb (°F)	91.9
Face velocity (ft/min)	657
Air pressure drop (in. of water)	0.31
Air fouling factor (h-ft²-F/Btu)	0.00000
Steam pressure (psi)	2.00
Steam temp. (°F)	218.3
Steam loading (lb/h)	416.1
Coils per bank	1
Coil type	58
Fin height (in)	18.0
Fin length (in)	56.0
Face area (ft²)	7.00
Rows	2
Fin spacing (fins/in)	9
Fin material	Al
Fin type	Sine
Fin thickness (in)	0.006
Tube wall thickness (in)	0.025
Supply conn. size (in)	1.250
Return conn. size (in)	1.250
Weight (lb)	86
Est. internal volume (ft³)	0.27

- Footnotes**
- (a) Not recommended for vertical tube applications.  
(b) Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard-410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at [www.ahridirectory.com](http://www.ahridirectory.com).  
(c) Tube OD 0.625, Tube spacing 1.500 x 1.299

R2.8 (Build 157360) - 177 Page 1 of 2 Wednesday, October 20, 2021

**KLIMA**  
NEW YORK, LLC

**NATIONWIDE COILS**

**SUBMITTAL DRAWINGS**

Greenborough  
Nationwide Coils Coil SC-1-Alt

**Drawings**

**Dimensions\***

Tag	SC-1-Alt
Model	SD58S02D09-18x56-RH
Weight	86
Fin material & type	0.006 Aluminum Sine-wave
Tube wall	0.025 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Slacking
Coating	None
Header diameter	3.125
Supply / return conn. size	1.25 / 1.25
Connection type	MPT Copper
FH / FL	18 / 56
CH / CL	21 / 59
OAL / CD	63.75 / 6.5
C	6.25
S / R	10.5 / 1.125
E / F	3.25 / 3.25
L / MAX	3 / 1.5

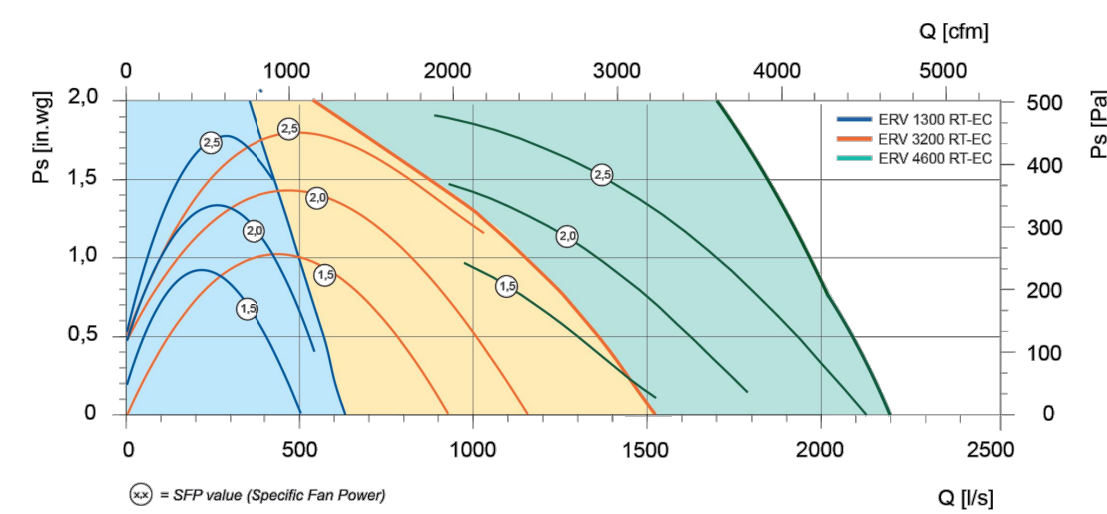
\* All distances are measured as inches.

R2.8 (Build 157360) - 177 Page 2 of 2 Wednesday, October 20, 2021

#### ERV SCHEDULE

(SYSTEMAIR AS STANDARD)

Air data	Supply air	Return air	Units
Airflow (1.205 kg/m³)	4,600	4,600	cfm
External pressure	1.00	1.00	in. w.g.
Filter	MERV13	MERV7	
Energy			
Sensible Effectiveness	69.2		%
Latent Effectiveness	62.4		%
Total Effectiveness	67.1		%



#### Supply air side

##### Rotary heat recovery

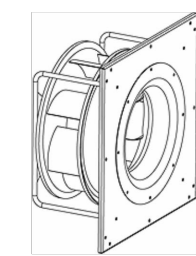
Model	N-E20-1197	
Note		
Supply airflow	4,402	4,717 cfm
Extract airflow	4,240	4,777 cfm
Transferred power	270.82	-98.12 MBtu
Supply temperature before/after	11.0 / 51.6	62.0 / 81.0 °F
Supply RH before/after	90 / 54	44 / 54 %
Extract temperature before/after	70.0 / 29.5	75.0 / 86.1 °F
Extract RH before/after	40 / 93	52 / 43 %
Sensible Effectiveness	69.2	64.9 %
Latent Effectiveness	62.2	42.9 %
Total Effectiveness	67.1	53.1 %
Rotor active	Yes	Yes

Total weight	1,400 lb
Ecodesign	
Heat recovery type	Enthalpy
MCA	18.9
MOP	25

Controller	
CuControlCabinet.ControlsInstalled	CuControlCabinet.ControlsInstalled Without
Air volume control	CAV
Main power supply unit	3x208V
Information	en-US.CompactUnits.Report.DCC
Note	

#### Supply air side

##### Supply - EC Fan



Type of drive	Direct drive
Fan type	High Efficiency
Impeller type	Metal
Motor protection	Thermistor
Max. temperature of transported air	140.0 °F
Max. temperature of transported air when voltage-controlled	140.0 °F
Note	
Air volume flow	4,600 cfm
External static pressure	1.00 in. w.g.
Power	2.70 kW

#### Outdoor air side

##### Outdoor - Filter

Model	MERV 13.24.5x24.5x3.75
Filter type	Pleated Filter
Class	MERV13
Length	3.8 inch
Width	24.5 inch
Height	24.5 inch
Required number of filters	1
Note	

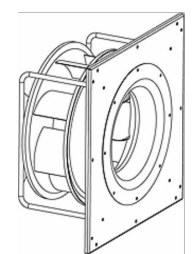
#### Return air side

##### Return - Filter

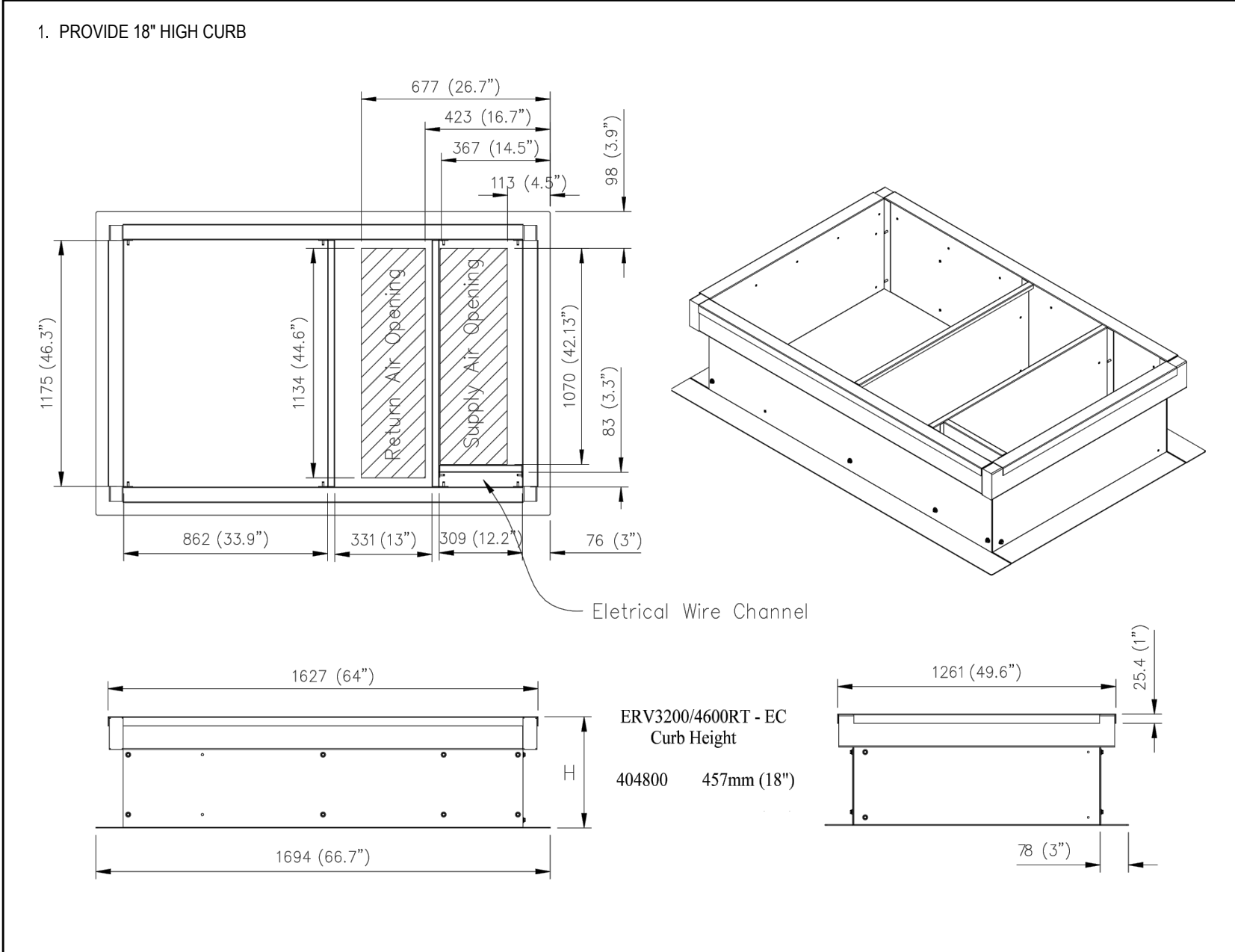
Model	MERV 7.24.5x24.5x1.75
Filter type	Pleated Filter
Class	MERV7
Length	1.8 inch
Width	24.5 inch
Height	24.5 inch
Required number of filters	1
Note	

#### Exhaust air side

##### Exhaust - EC Fan



Type of drive	Direct drive
Fan type	High Efficiency
Impeller type	Metal
Motor protection	Thermistor
Max. temperature of transported air	140.0 °F
Max. temperature of transported air when voltage-controlled	140.0 °F
Note	
Air volume flow	4,600 cfm
External static pressure	1.00 in. w.g.
Power	2.70 kW



REV.	DATE	ITEM

#### NOTICE

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#### KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

DRAWING BY: D.S.  
CHECK BY: D.S.

#### NOTICE

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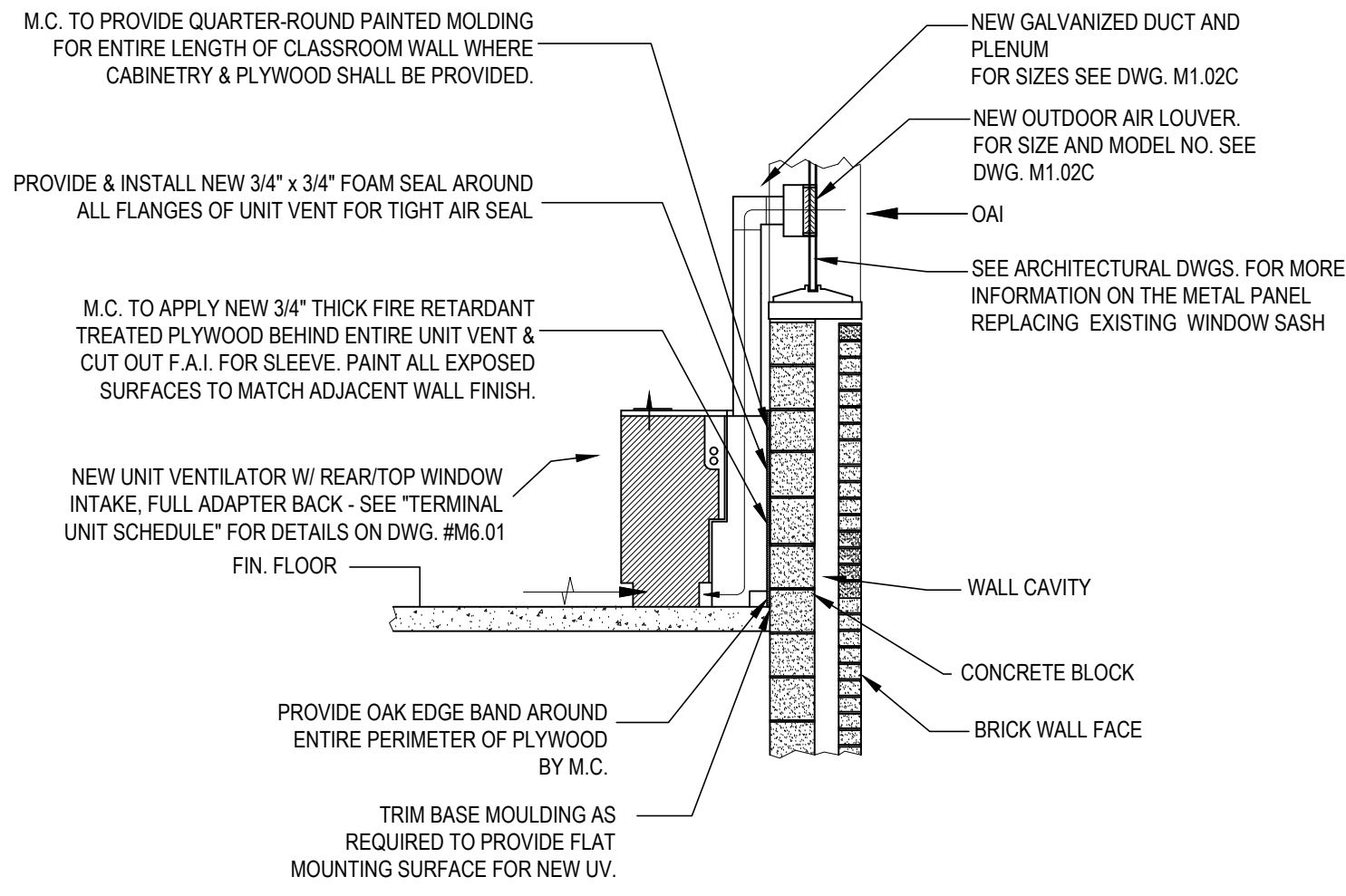
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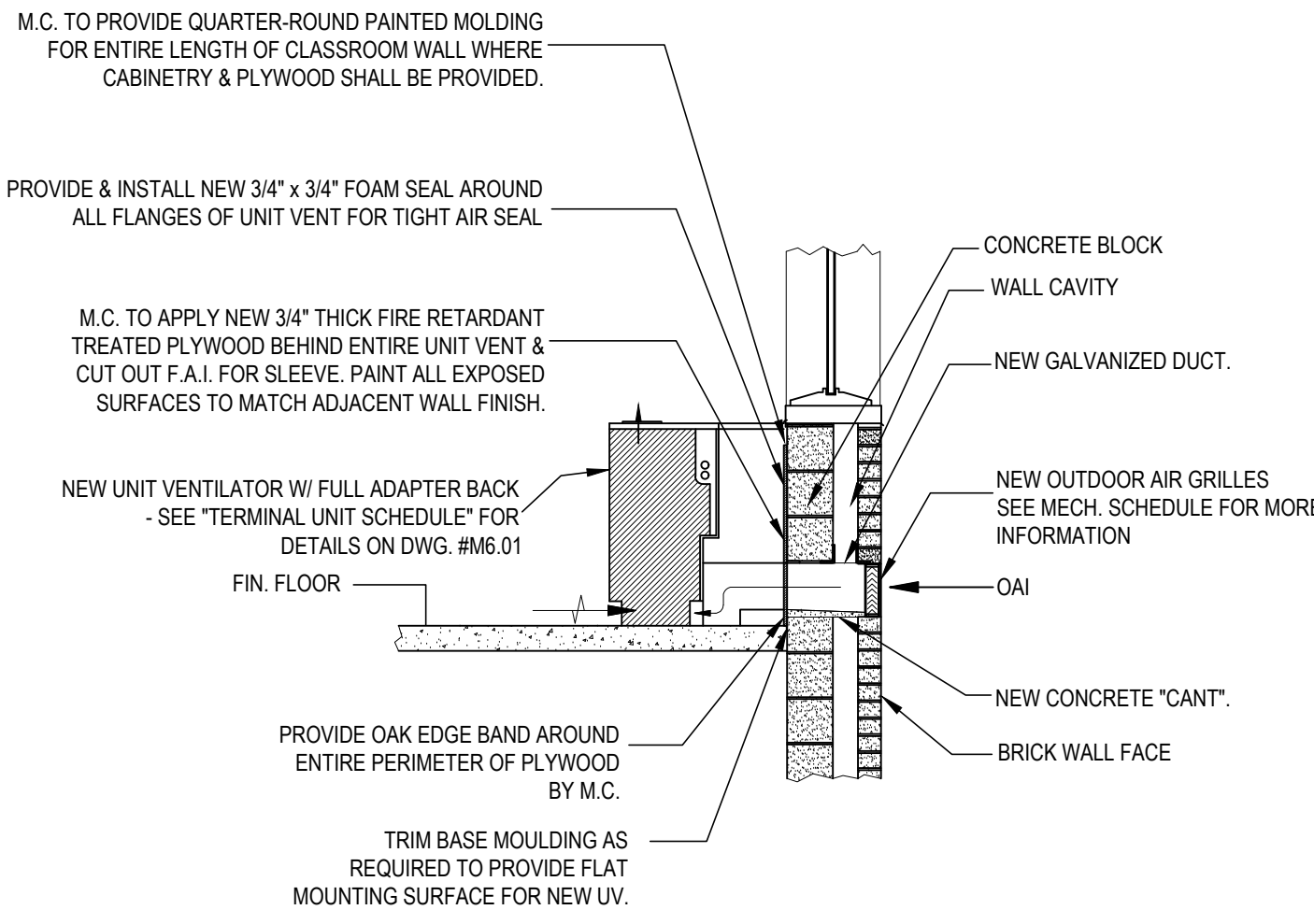
SED No.	66-04-07-06-0-005-012
DISTRICT	GREENBURGH CSD
PROJECT	PH I - DW CAP IMPROVEMENTS R.J. BAILEY E.S.
DWG TITLE	MECHANICAL SCHEDULES
SCALE	AS NOTED
DATE	MAY 2022
BID PICK-UP	MAY 27, 2022
FILE No.	21-290

M6.01C OF ---



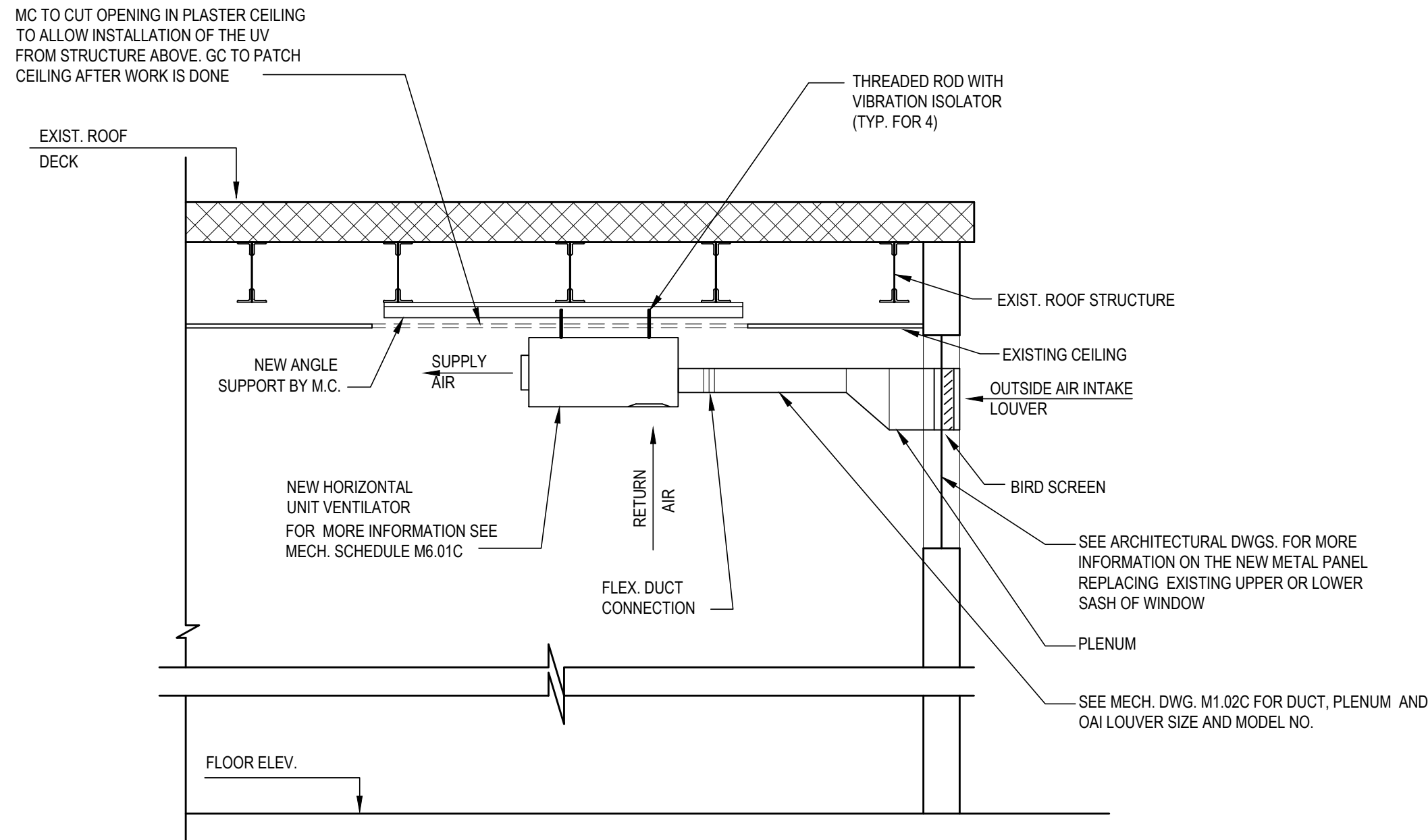
VERTICAL UNIT VENTILATOR FRESH AIR INTAKE- MASONRY WALL INSTALLATION  
DETAIL- ( FOR MATH LAB 003 AND ART ROOM LOCATED IN THE BASEMENT)

SCALE: NOT TO SCALE



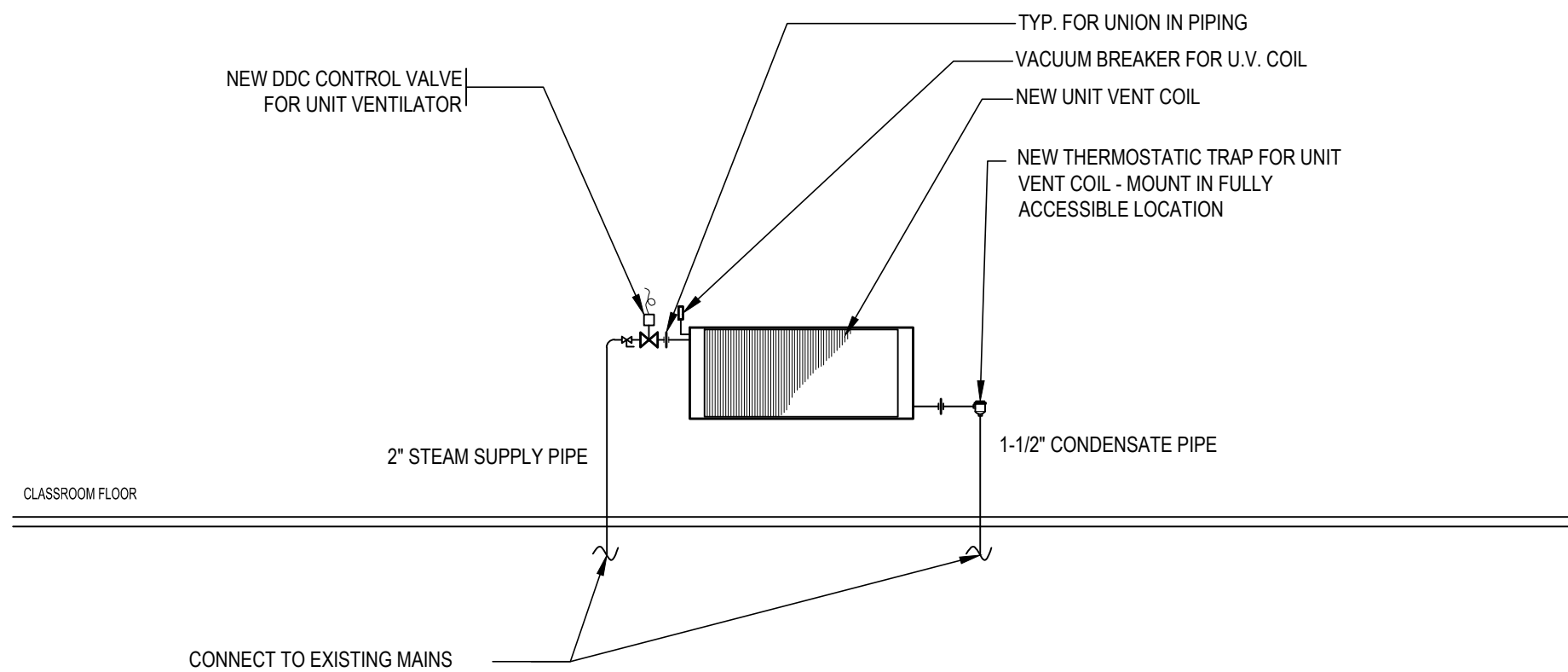
VERTICAL UNIT VENTILATOR FRESH AIR INTAKE- MASONRY WALL  
INSTALLATION DETAIL- ( TYP.)

SCALE: NOT TO SCALE



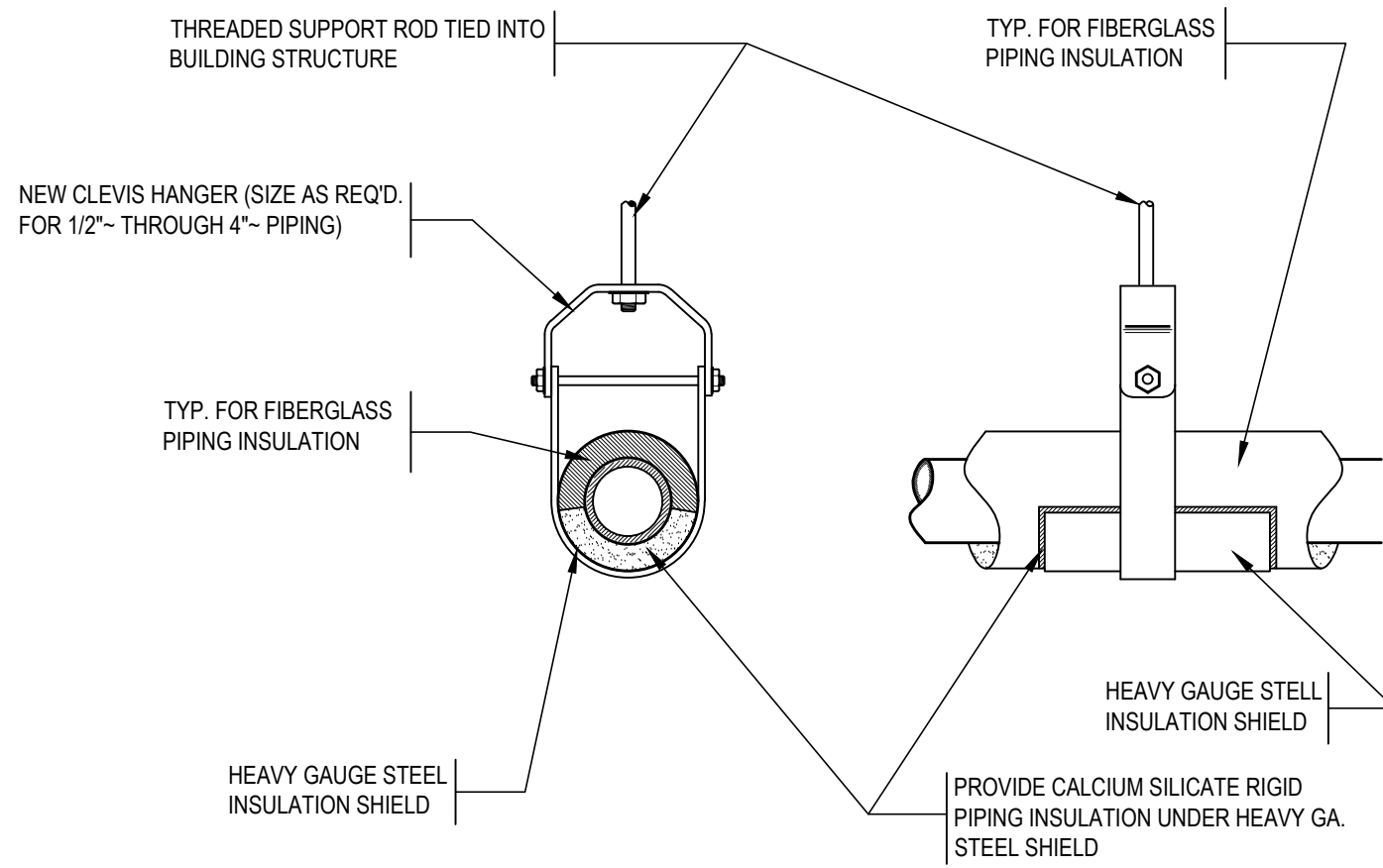
HORIZONTAL UNIT VENTILATOR INSTALLATION DETAIL- (TYP.)

SCALE: NOT TO SCALE



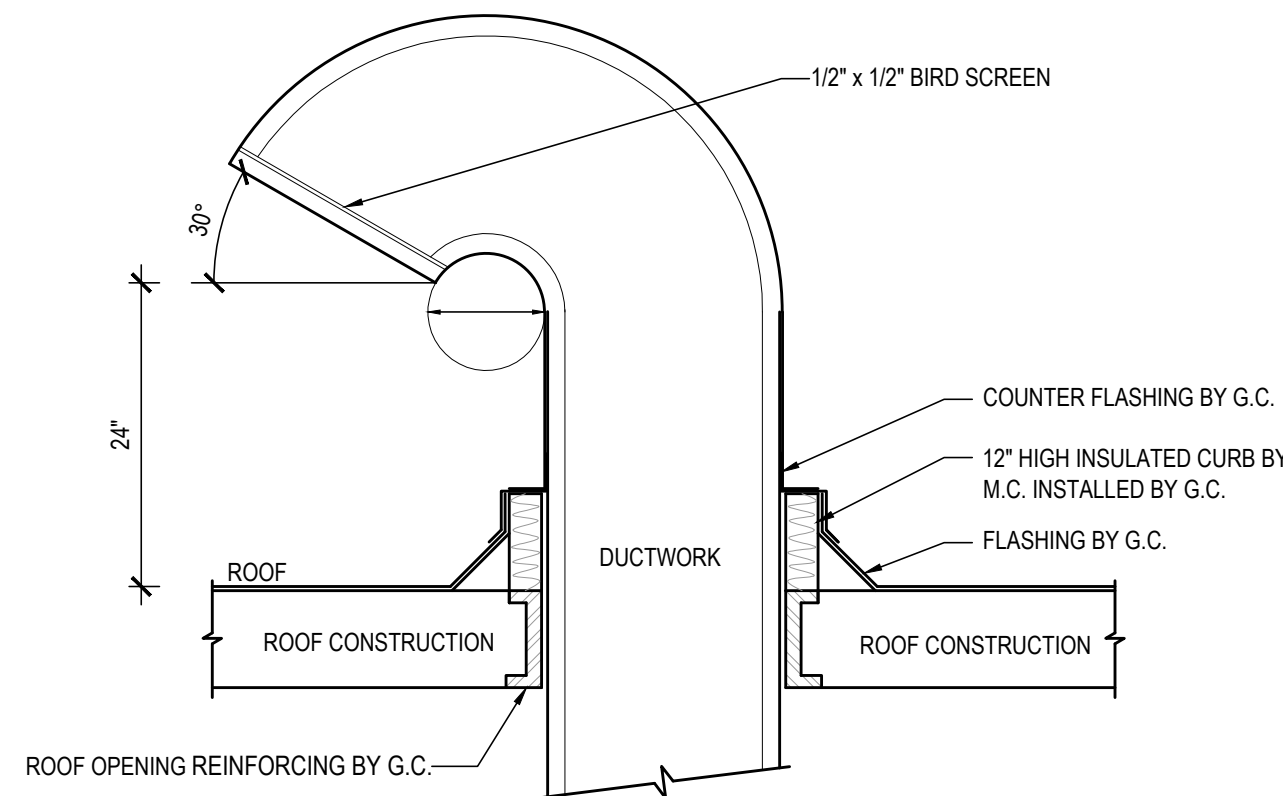
UNIT VENTILATOR /RADIATOR STEAM PIPING DETAIL

SCALE: NOT TO SCALE



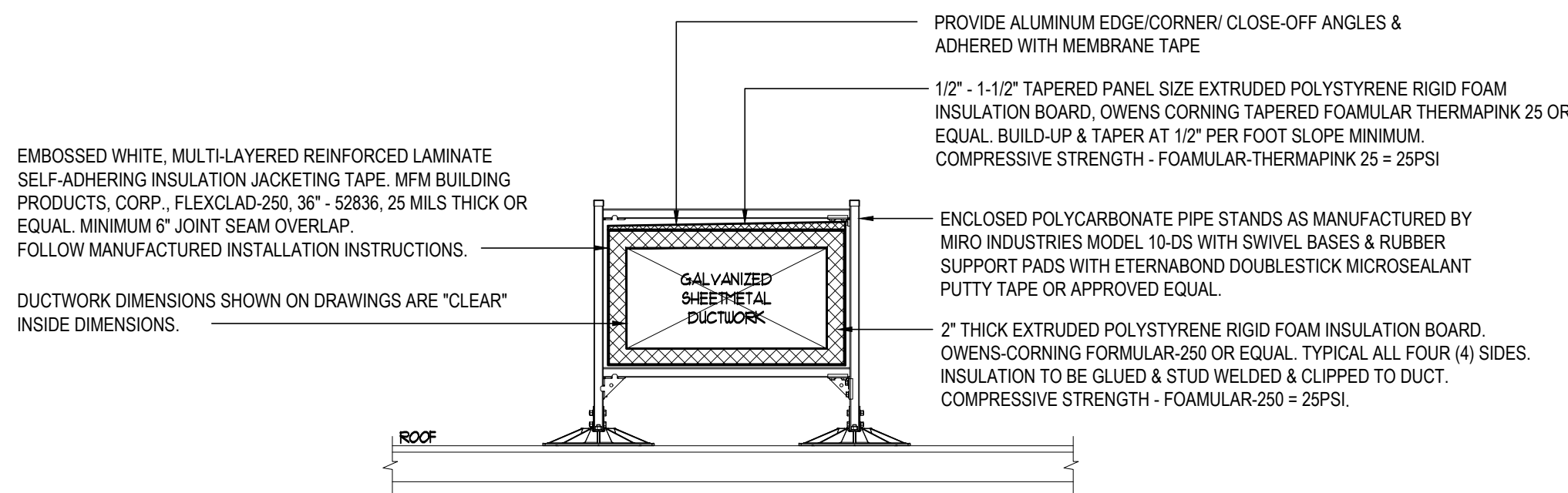
CLEVIS HANGER PIPING SUPPORTS DETAIL

SCALE: NOT TO SCALE



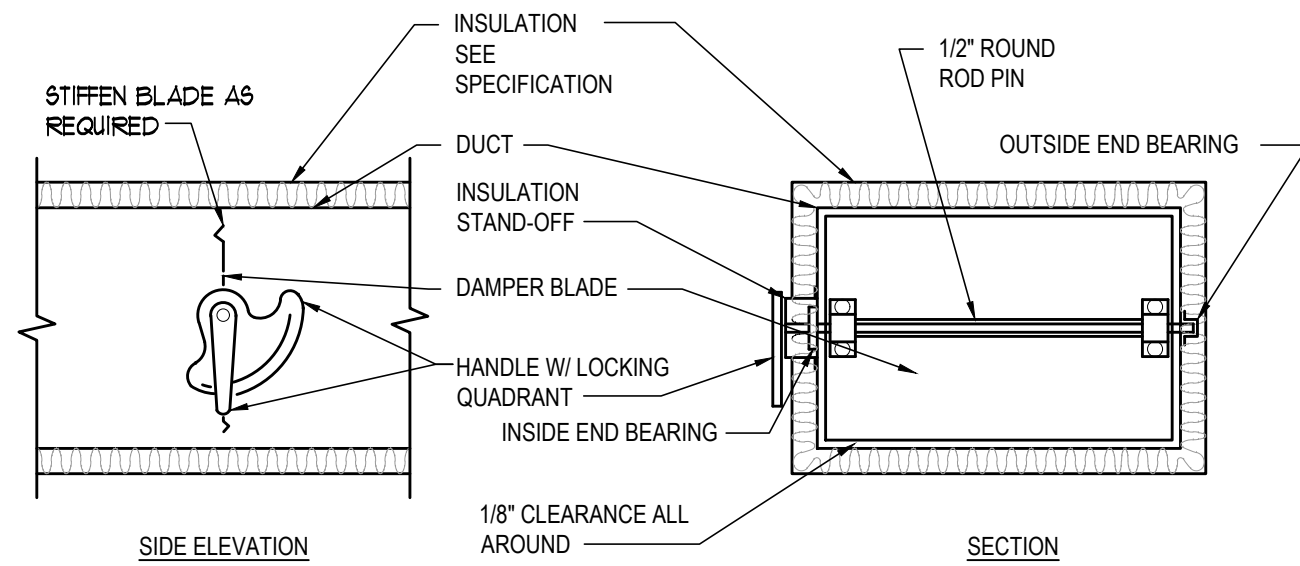
FRESH AIR INTAKE GOOSENECK DETAIL

SCALE: NOT TO SCALE



EXTERIOR RECTANGULAR DUCTWORK INSULATION WITH SUPPORTS DETAIL

SCALE: NOT TO SCALE

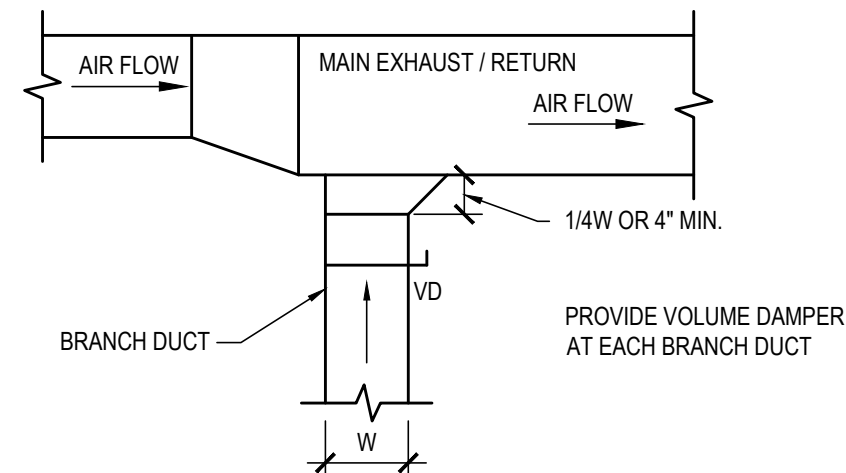


NOTE:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

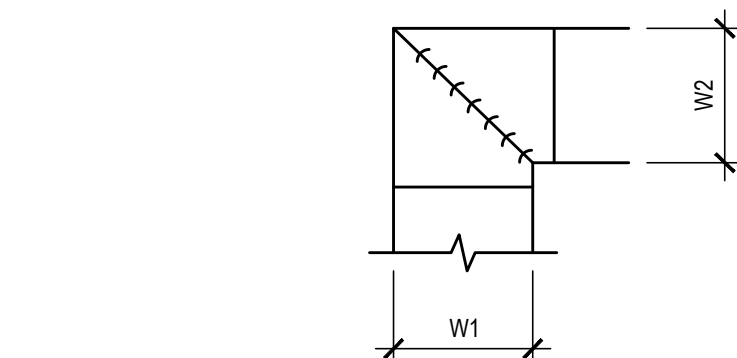
VOLUM DAMPER DETAIL

SCALE: NOT TO SCALE



EXHAUST OR RETURN BRANCH DUCTWORK DETAIL

SCALE: NOT TO SCALE



NOTE:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2\"/>

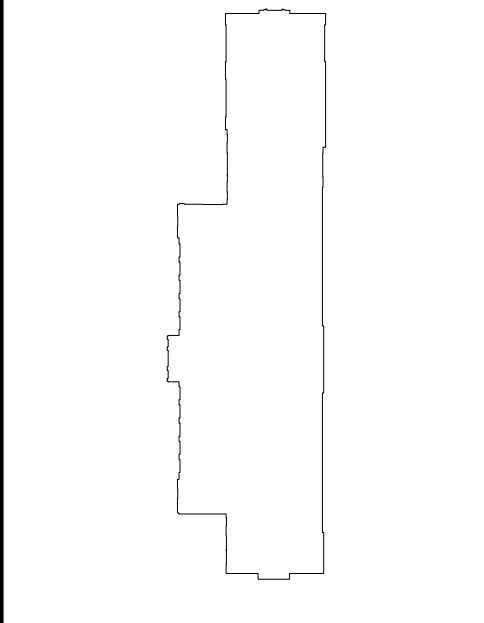
DUCTWORK SQUARE VANE ELBOWS DETAIL

SCALE: NOT TO SCALE

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

DWG TITLE

MECHANICAL DETAILS

DRAWING BY: D.S.  
CHECK BY: D.S.

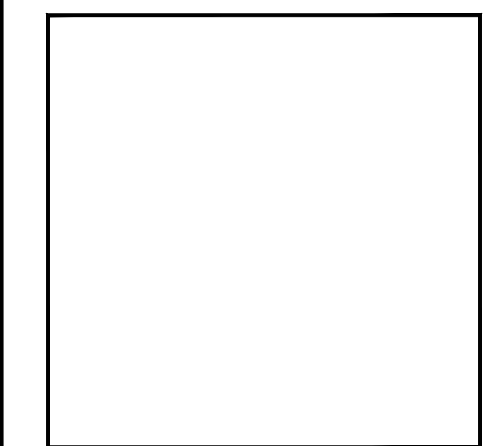
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SED No: 66-04-07-06-0-005-012

DISTRICT GREENBURGH CSD

PROJECT PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY E.S.

DWG TITLE MECHANICAL DETAILS

SCALE: AS NOTED

DATE: MAY 2022

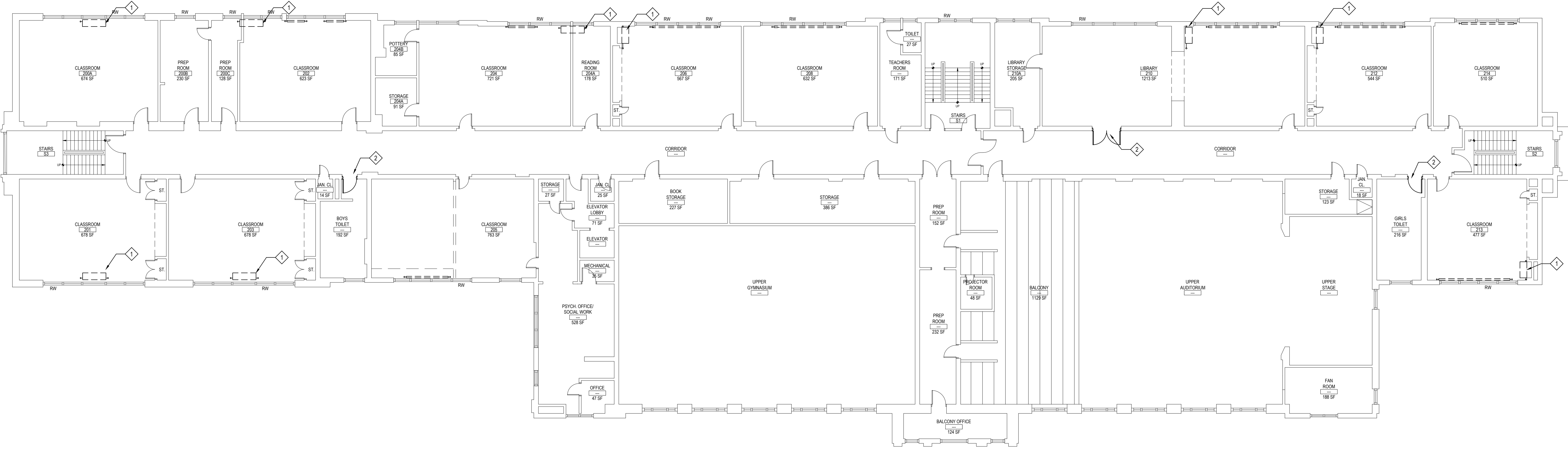
BID PICK-UP: MAY 27, 2022

FILE No: 21-290

M6.02C OF ---







SECOND FLOOR DEMOLITION PLAN

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

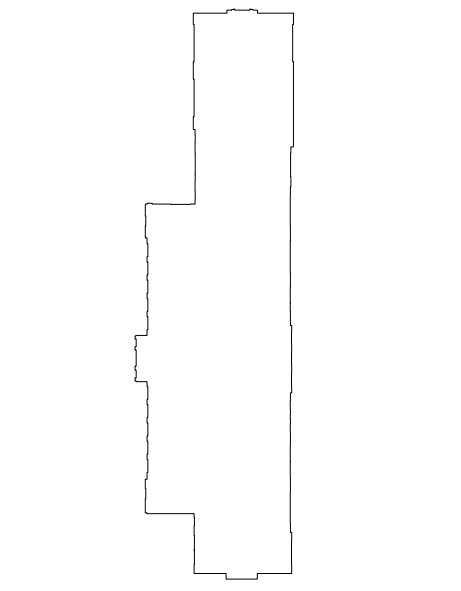
DRAWING NOTES:

- 1 EC TO DISCONNECT EXISTING UNIT VENTILATOR. REMOVE WIRING AND ACCESSIBLE CONDUIT BACK TO SOURCE. COORDINATE W/ M.C.
- 2 EC TO RELOCATE ANY ELECTRICAL IMPACTED BY DOOR WIDENING BY GC. COORDINATE WORK WITH GC.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

PROJECT

SECOND FLOOR DEMOLITION PLAN

DWG TITLE

DRAWING BY: DG  
CHECK BY: ---

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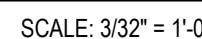
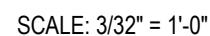
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DISTRICT	GREENBURGH CSD
PROJECT	PH. I - DW CAP IMPROVEMENTS R.J. BAILEY E.S.
DWG TITLE	SECOND FLOOR DEMOLITION PLAN
SCALE:	AS NOTED
DATE:	MAY 2022
BID PICK-UP:	MAY 27, 2022
FILE No:	21-290

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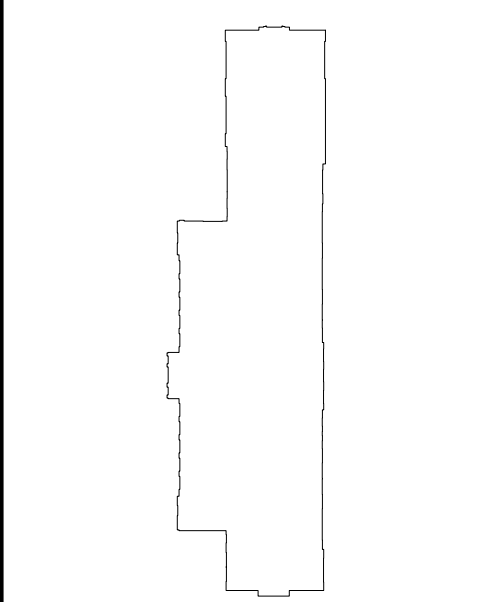


- DRAWING NOTES:
- EC TO RELOCATE EXISTING ELECTRICAL IN INTERFERENCE WITH NEW MECHANICAL EQUIPMENT. REROUTE/EXTEND WIRING AS REQ'D. COORDINATE W/ MC. COORDINATE FINAL LOCATIONS W/ DISTRICT.
  - PROVIDE FIRE ALARM RELAY WIRED TO FIRE ALARM SYSTEM TO SHUT DOWN UNIT UPON ALARM.

REV.	DATE	ITEM

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RICHARD J. BAILEY ELEMENTARY SCHOOL  
WHITE PLAINS, NEW YORK - WESTCHESTER COUNTY

SECOND FLOOR & ROOF POWER PLANS,  
RISER & PANEL SCHEDULE

PROJECT  
DWG TITLE

DRAWING BY: DG  
CHECK BY:

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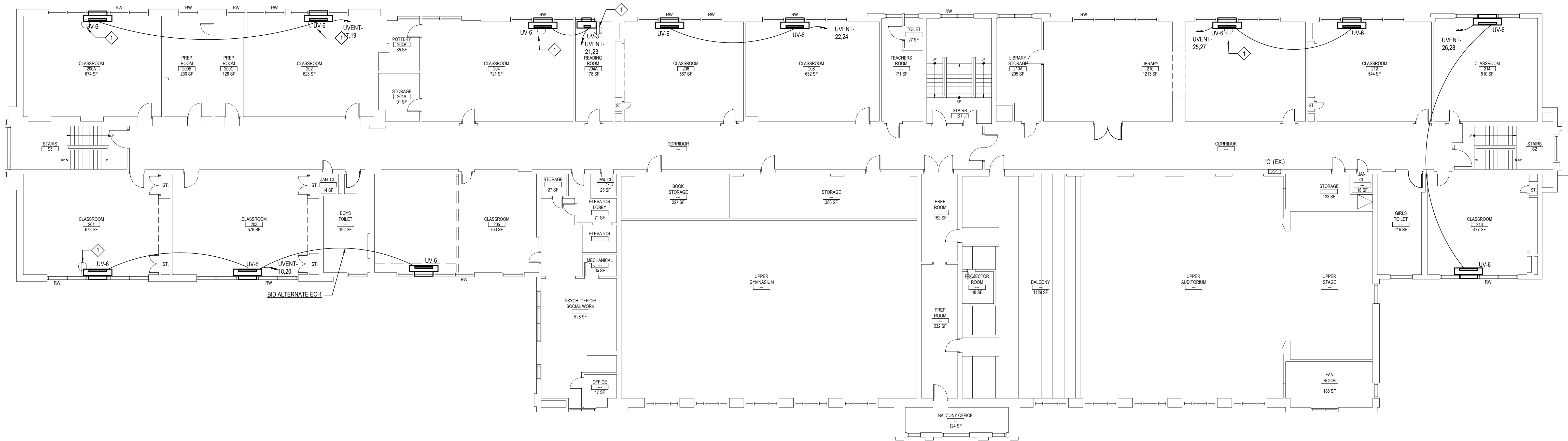
DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
R.J. BAILEY, E.S.

DWG TITLE: 2ND FLOOR & ROOF PWR PLANS,  
RISER & PANEL SCHEDULE

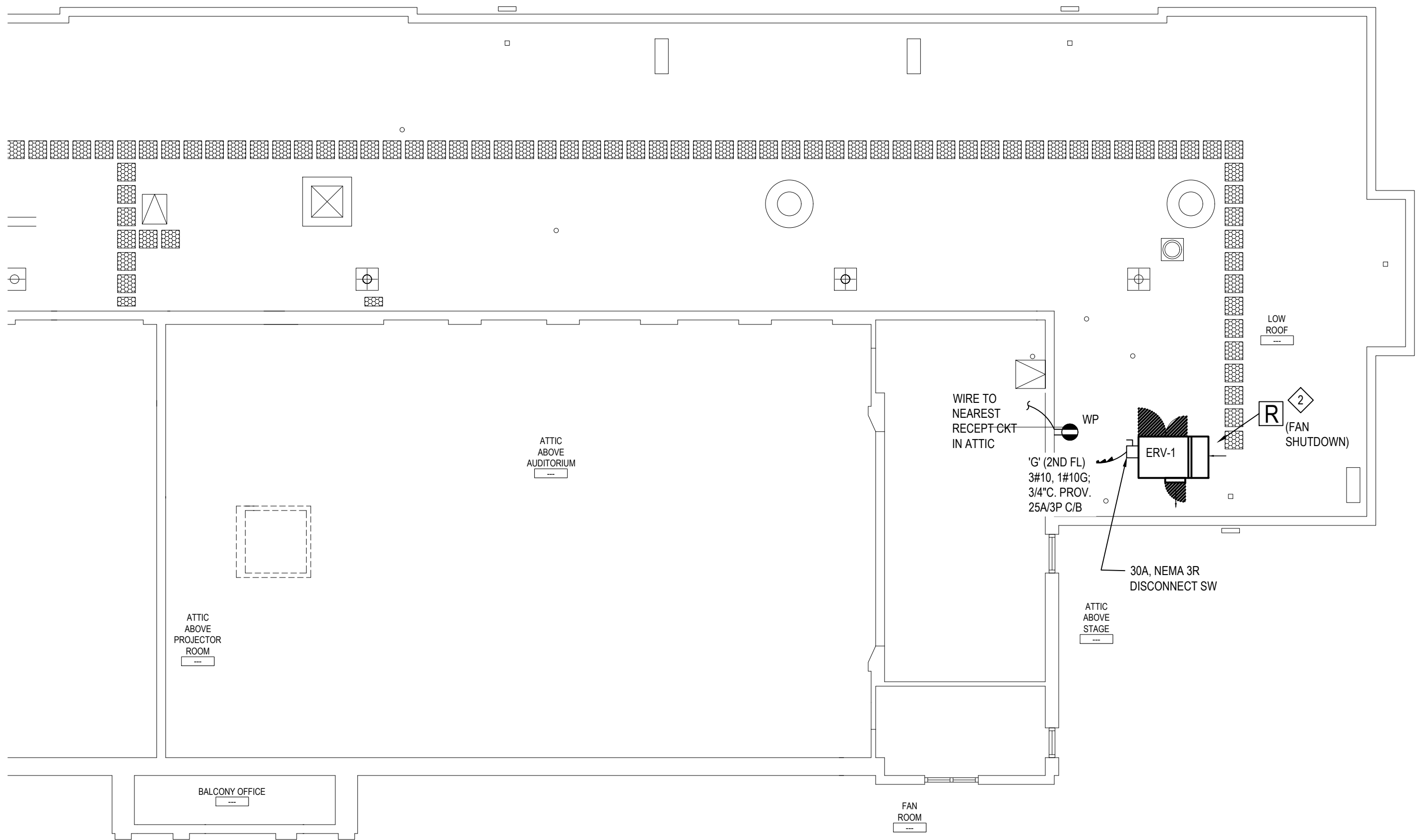
SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-290

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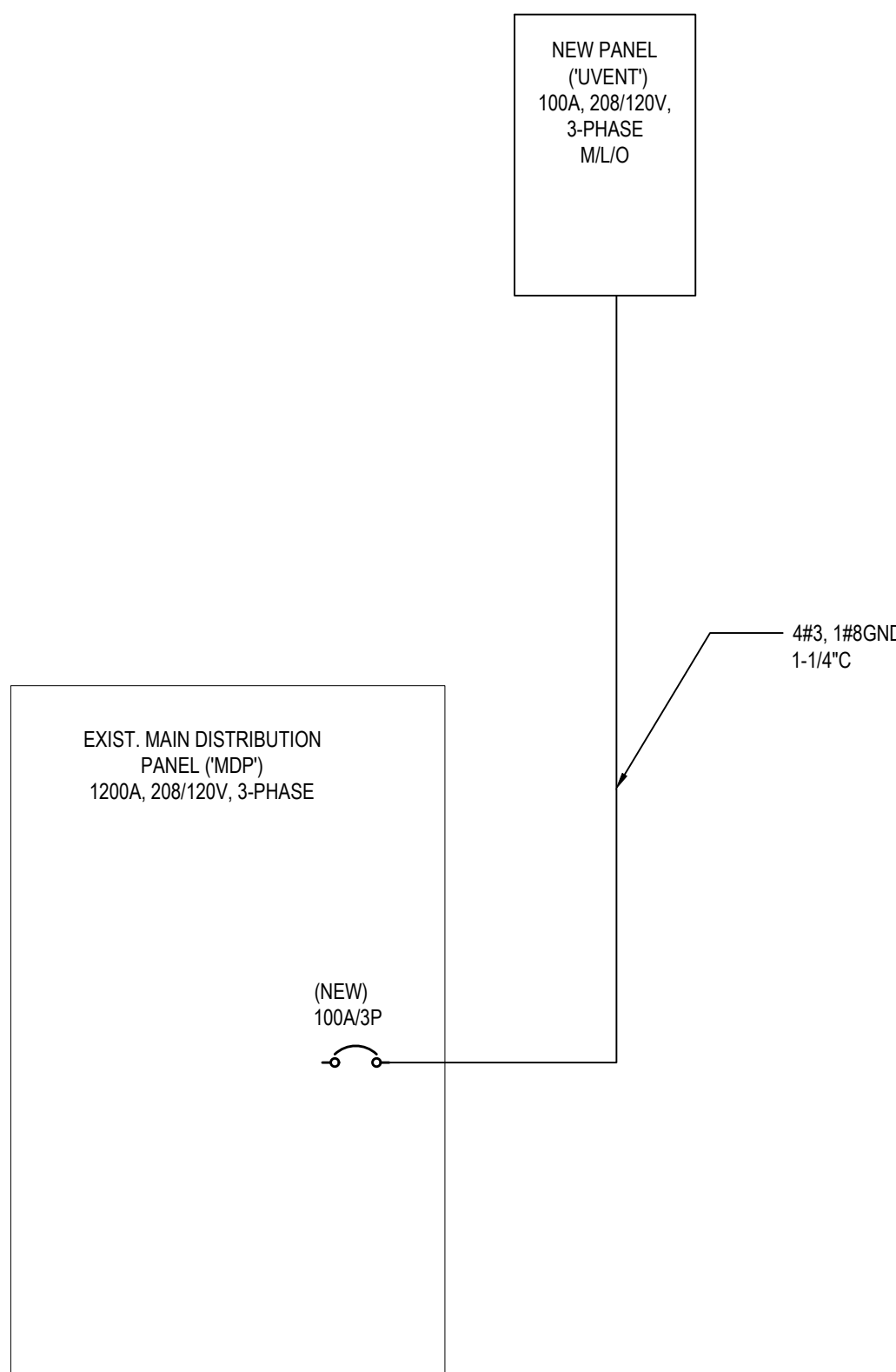
PROPOSED SECOND FLOOR POWER PLAN

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



PROPOSED PART ROOF/ATTIC POWER PLAN

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



PROPOSED PART. RISER DIAGRAM

SCALE: NONE

PANEL BOARD

NAME: UVENT

LOCATION: TCHR ROOM CL.

TYPE: \_\_\_\_\_

BRANCH BREAKER TYPE: BOLT ON

NO. OF POLES: AS SHOWN

BUS SIZE (A): 125A

MIN AIC RATING (KA): 22K

NEUTRAL: 125A

MAIN CIRCUIT BREAKER: MLO

MAIN LUGS: #3

VOLTS: 208/120V

PHASE: 3

# WIRES: 4

MOUNTING: SURFACE

ENCL. TYPE: 1

DOOR RECD: DOOR-IN-DOOR

ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐

SPD RATING(KA): N/A

SUB-FEED LUGS: ☐

FEED-THRU LUGS: ☐

SHUNT TRIP MAIN: ☐

ASCO SWITCH: ☐

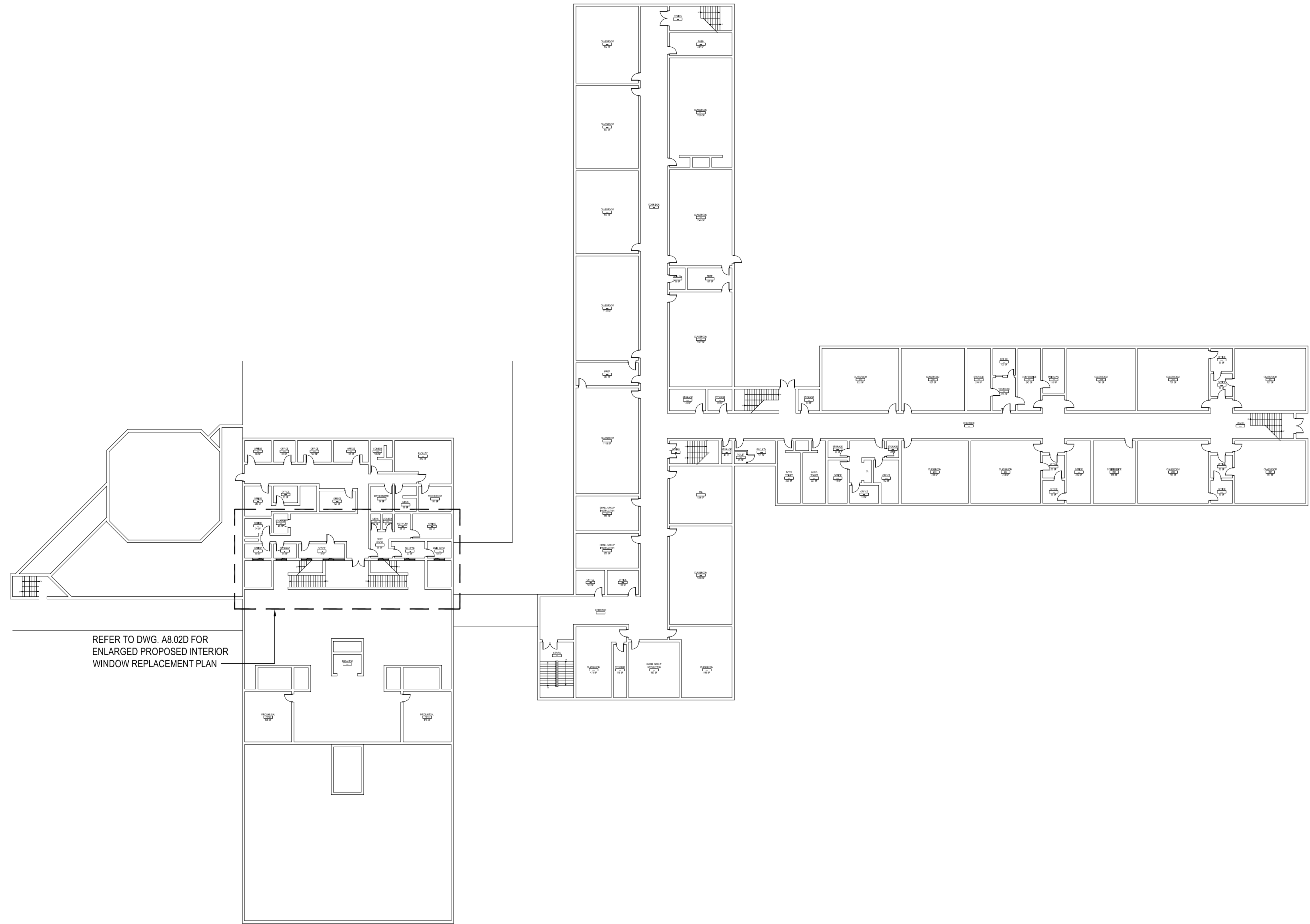
ISOLATED GROUND: ☐

CKT. #	DESIGNATION	WIRE SIZE	CKT. BRKR	LOAD			WIRE SIZE	DESIGNATION	CKT. #	
				A	B	C				
1	RMS. 002/002A/003 UVS	12	20				20	12	RMS. 004/006/008 UVS	24
3		12	2P				2P	12		44
5	RMS. 002/002A/003 UVS	12	20				20	12	COMPUTER & ART RMS. UVS	64
7		12	2P				2P	12		84
9	RMS. 100/102 UVS	12	20				20	12	RMS. 101/103 UVS	104
11		12	2P				2P	12		124
13	RMS. 104/106/108 UVS	12	20				20	12	RMS. 112/113/114 UVS	144
15		12	2P				2P	12		164
17	RMS. 200A/202 UVS	12	20				20	12	RMS. 201/203 UVS	184
19		12	2P				2P	12		204
21	RMS. 204/204A UVS	12	20				20	12	RMS. 206/208 UVS	224
23		12	2P				2P	12		244
25	RMS. LIBRARY/212 UVS	12	20				20	12	RMS. 213/214 UVS	264
27		12	2P				2P	12		284
29	SPARE		20				20		SPARE	30

PANEL SCHEDULE

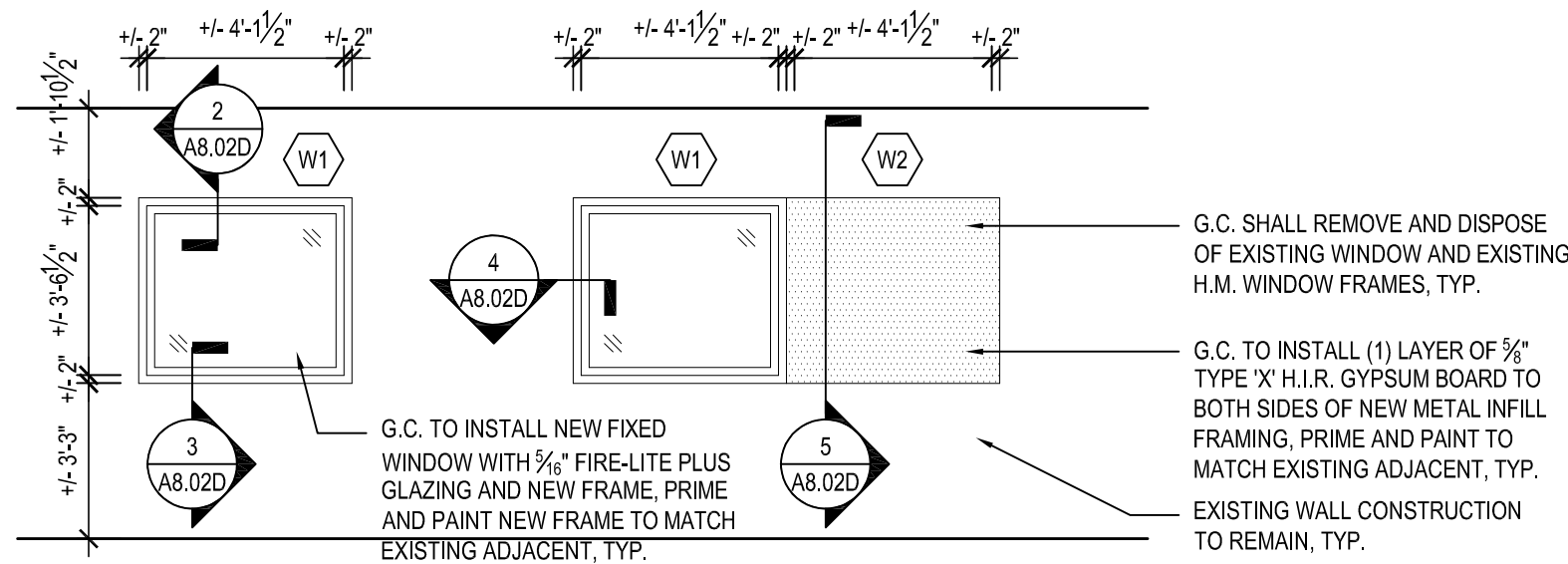
SCALE: NONE





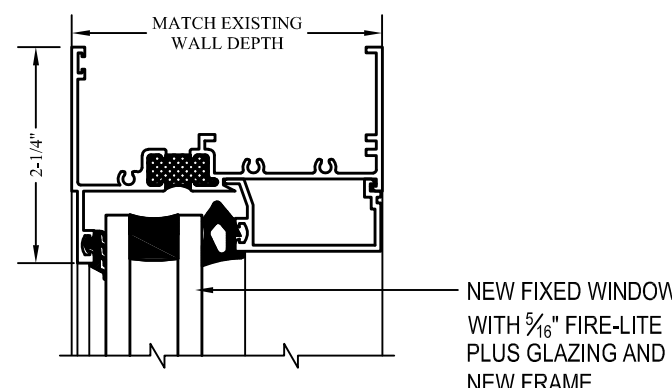
INTERIOR WINDOW REPLACEMENT SECOND FLOOR KEY PLAN

NOTE: SCALE: 1/32" = 1'-0"



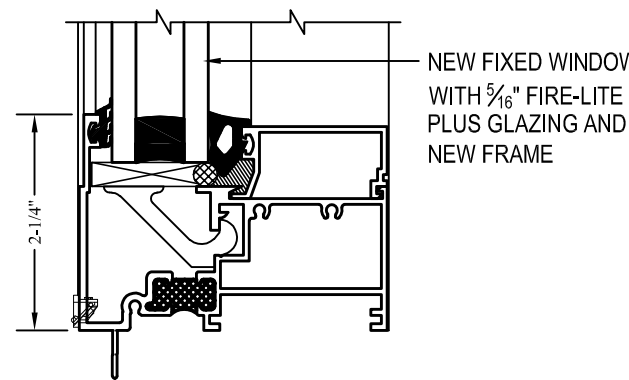
TYPICAL WINDOW REPLACEMENT ELEVATION

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



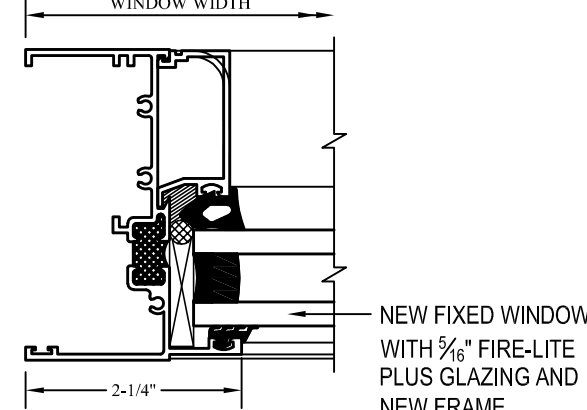
TYPICAL HEAD DETAIL

NOTE: SCALE: 6\"/>



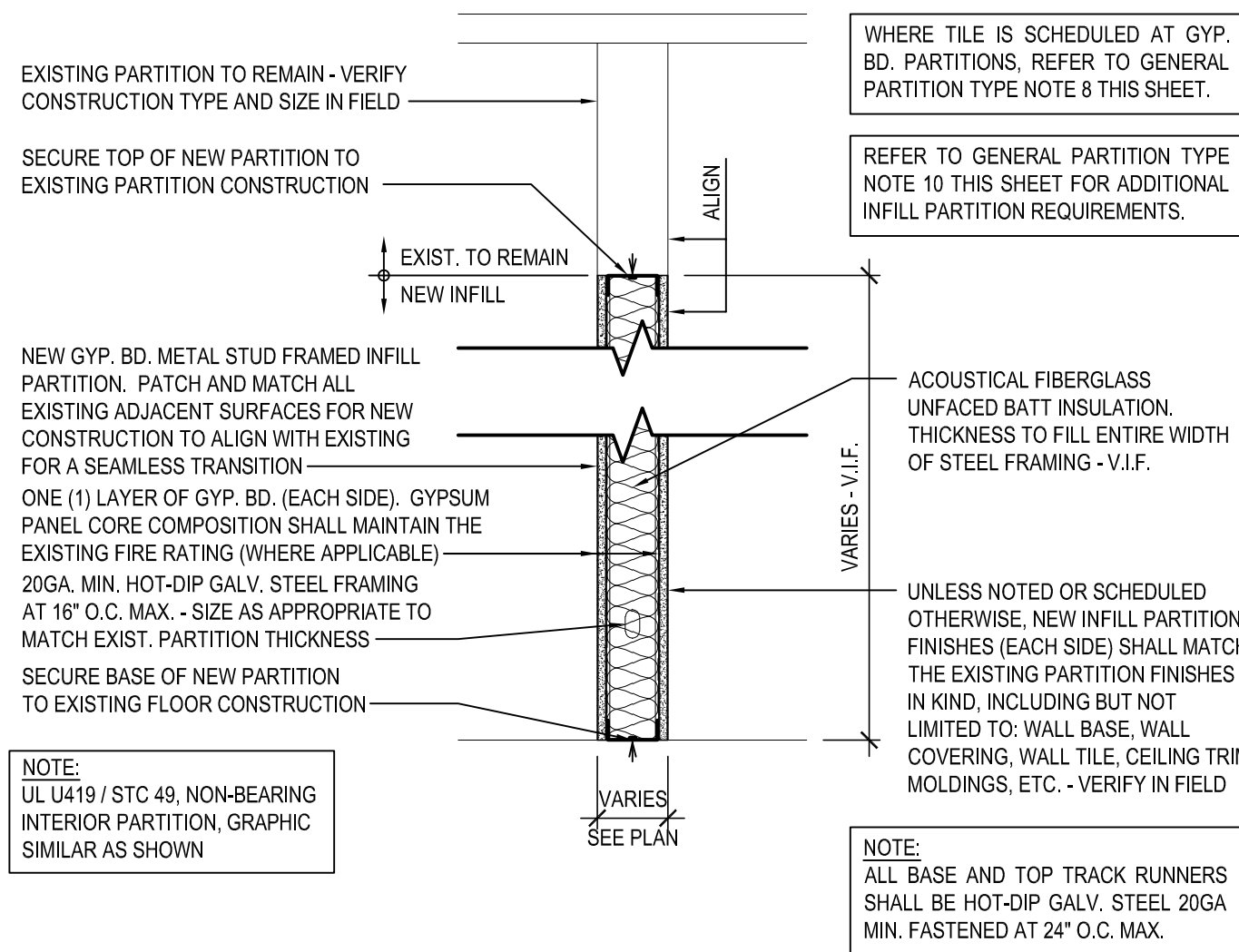
TYPICAL SILL DETAIL

NOTE: SCALE: 6\"/>



TYPICAL JAMB DETAIL

NOTE: SCALE: 6\"/>



GYP. BD. METAL STUD INFILL PARTITION

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN FIELD

**PRE-ABATEMENT WORK NOTES:**

1. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

**POST-ABATEMENT WORK NOTES:**

1. THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.
2. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.

ABATEMENT NOTES	
(A)	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH CANVAS WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
(B)	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH TAR CONTAINING WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
(C)	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING DUCT INSULATION AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN CAFETERIA/MECHANICAL ROOM #1. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.

**NOTES:**

REFER TO ENVIRONMENTAL CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIRONMENTAL FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.

**LEAD CONTAINING NOTES**

NONE OF THE BUILDING MATERIALS AFFECTED BY THE SCOPE OF WORK WERE FOUND TO BE LEAD CONTAINING. PLEASE SEE TEST RESULTS AND REPORT BY ENVIRONMENTAL CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED LEAD CONTAINING CONSTRUCTION MATERIALS.

**GENERAL PARTITION TYPE NOTES:**

1. ALL PARTITIONS SHALL EXTEND TO UNDERSIDE OF A FLOOR SLAB OR ROOF DECK UNLESS OTHERWISE NOTED.
2. AT ALL PARTITIONS THAT ARE DESIGNATED TO BE FIRE RATED PARTITIONS, PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT AT TOPS OF PARTITIONS; AT ALL PENETRATIONS THROUGH RATED PARTITIONS, AND FIRE SHAPING JOINT FILLER AT PARTITION TO SLAB/DECK JUNCTION.
3. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF ALL FIRE RATED PARTITIONS/ASSEMBLIES AND ADDITIONAL FIRE RATING INFORMATION.
4. ALL PARTITIONS SHALL BE FINISHED AS SCHEDULED. ALL FINISHES SHALL BE CONTINUOUS AT ALL PARTITION FACES UNLESS NOTED OTHERWISE. REFER TO A9-SERIES FOR ADDITIONAL FINISH INFORMATION.
5. ALL NEW PARTITIONS SHALL BE PREPARED, PRIMED AND PAINTED, PER SPECIFICATION SECTION 0900.
6. REFER TO THE PROJECT MANUAL FOR CONTROL AND EXPANSION JOINT REQUIREMENTS FOR ALL MASONRY WALL CONSTRUCTION, GYP. BD. WALL CONSTRUCTION, GYP. BD. LAMINATION, AND PLASTER SURFACING.
7. REFER TO SPECIFICATIONS FOR GYPSUM BOARD TYPE DESIGNATIONS AND APPLICABLE LOCATIONS (GYP. BD. TYPE I / TYPE II).
8. WHERE METAL STUD FRAMED PARTITIONS ARE SCHEDULED TO RECEIVE NEW TILE FINISHES; THE CONTRACTOR SHALL MAINTAIN AND MATCH THE EXISTING PARTITION'S FIRE RATINGS FOR CONTINUITY OF FIRE AND SMOKE PROTECTION - CONTRACTOR TO VERIFY IN FIELD (1-HR MIN. RATING AT CORRIDORS). REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL INFORMATION.
9. ALL NEW OPENINGS IN METAL STUD PARTITIONS, INCLUDING BUT NOT LIMITED TO DOORS AND WINDOWS, SHALL RECEIVE THE APPROPRIATE HEADER AS DESIGNED BY THE LIGHT GAUGE FRAMING MANUFACTURER.
10. WHERE EXISTING OPENINGS IN EXISTING PARTITIONS ARE SCHEDULED TO BE INFILLED, THE NEW INFILL CONSTRUCTION SHALL MAINTAIN AND MATCH THE EXISTING PARTITION'S FIRE RATINGS FOR CONTINUITY OF FIRE AND SMOKE PROTECTION - CONTRACTOR TO VERIFY IN FIELD (1-HR MIN. RATING AT CORRIDORS). REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL INFORMATION.
11. AT ALL LOCATIONS WHERE EXISTING PARTITIONS ARE SCHEDULED TO BE PATCHED OR INFILLED, ALL NEW CONSTRUCTION/FINISHES SHALL MATCH THE EXISTING ADJACENT SURFACES IN KIND - CONTRACTOR TO V.I.F.
12. AT ALL LOCATIONS WHERE NEW WORK IS SCHEDULED, THE CONTRACTOR SHALL PROVIDE SOLID BLOCKING, LATERAL BRACING, AND ADDITIONAL FRAMING AS REQUIRED TO SECURE NEW PARTITIONS TO THE STRUCTURE ABOVE AND TO ACCOMMODATE ALL NEW WALL MOUNTED FIXTURES, ACCESSORIES, EQUIPMENT, ETC.
13. WHERE PARTITION TYPES ARE NOT SPECIFICALLY IDENTIFIED IN PLAN, IT IS THE INTENT THAT THE GRAPHICALLY INDICATED WALL TYPE SHALL BE CONTIGUOUS UNTIL INTERRUPTED BY ANOTHER SPECIFIED WALL TYPE.

**PAINT TYPES**

TYPE P1: PAINT BY SHERWIN WILLIAMS, DTM ALKO SEMI-GLOSS ENAMEL, COLOR: TO BE SELECTED BY ARCHITECT (H.M. WINDOW FRAMES).

**NOTE:**

ALL DIMENSIONS GIVEN ARE +/- AND ARE TO BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION OF NEW PANELS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.

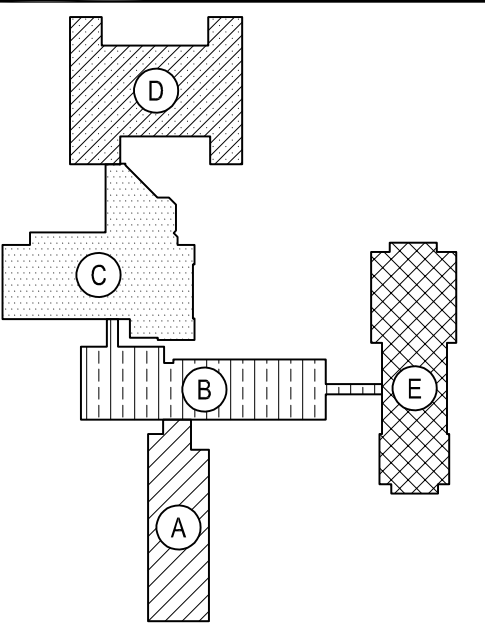
**DEMOLITION and REMOVAL NOTES**

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C., AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR. NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND / OR RECONSTRUCTION.
2. ALL OPENINGS IN EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE PATCHED AS REQUIRED AND MASONRY TOOTHED-IN TO MATCH ADJACENT.
3. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
4. G.C. SHALL VERIFY ALL REMOVALS WITH OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.
5. NOTED WALL REMOVALS SHALL INCLUDE ALL DOORS, WINDOWS AND FRAMES WHERE SHOWN.

REV.	DATE	ITEM

**NOTICE**

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KEY PLAN

NOT TO SCALE

**GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE/ HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY**

**DEMOLITION and PROPOSED  
WINDOW REPLACEMENTS**

**PROJECT**

DRAWING BY: S.E.S.  
CHECK BY: J.W.W.

**NOTICE**

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244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205  
PATCHOGUE | ALBANY  
NEW YORK 12205 | NEW YORK 12205  
T. 631.475.0349 | T. 518.621.7650  
F. 631.475.0361 | F. 518.621.7655

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**SED No:** 66-04-07-06-0-007-022

**DISTRICT:** GREENBURGH CSD

**PROJECT:** PH I - DW CAP IMPROVEMENTS  
WOODLANDS M.S.H.S.

**DWG TITLE:** DEMO AND PROPOSED  
WINDOW REPLACEMENTS

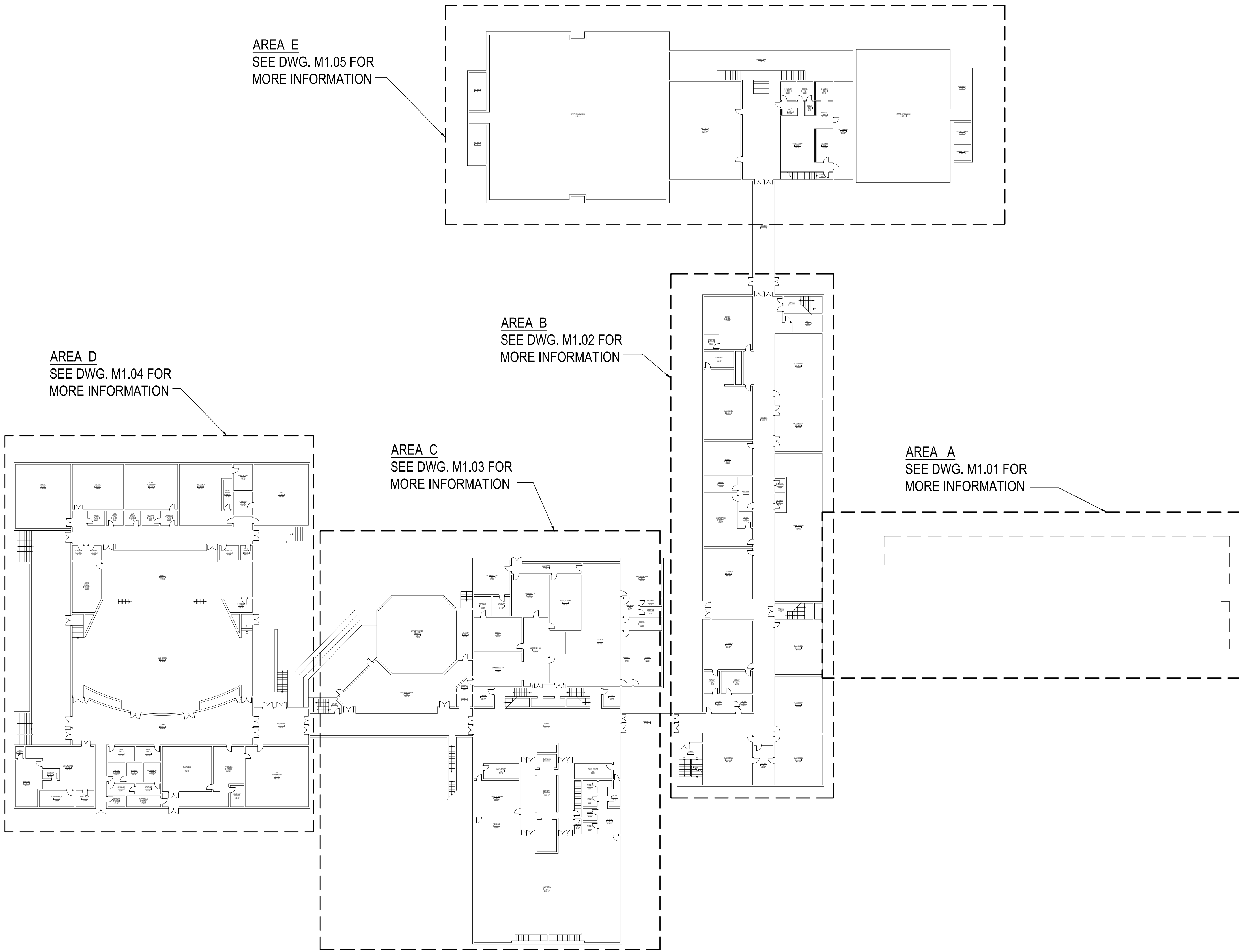
**SCALE:** AS NOTED

**DATE:** MAY 2022

**BID PICK-UP:** MAY 27, 2022

**FILE No:** 21-291

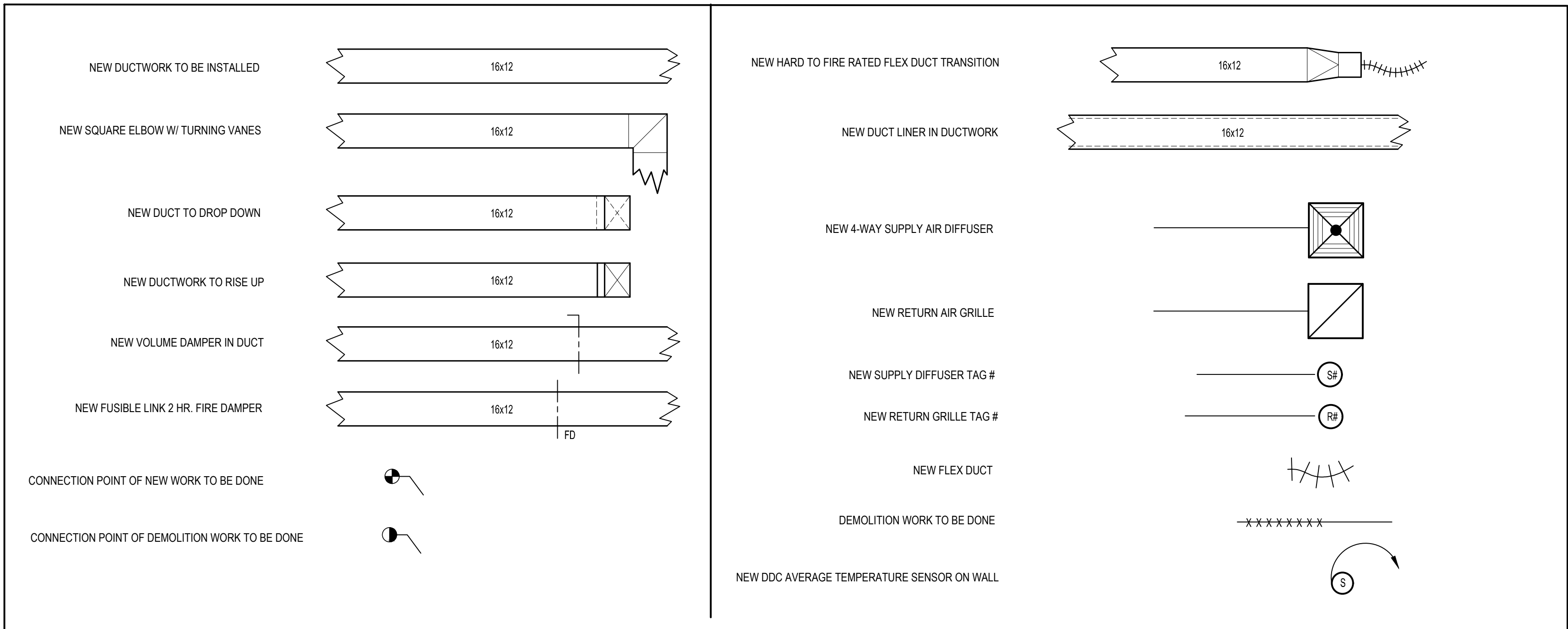
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MECHANICAL FIRST FLOOR KEY PLAN

SCALE: 1/32" = 1'-0"

MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS



GENERAL NOTES

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

CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR

FIRE STOPPING NOTES

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

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
  - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED)
  - AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
  - AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
  - AT SUCTION & DISCHARGE OF EACH PUMP.
  - FOR EACH MAKEUP WATER LINE.
  - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
  - AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
  - AT ALL EXPANSION / COMPRESSION TANKS.

PIPING SYSTEMS AND EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" RHY-VENT OR EQUIVALENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIL VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIL VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

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

DUCTWORK NOTES

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891 AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIUISED, THEN RADIUISED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUISED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNITS). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15991 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE RE-ADJUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

CONTRACTOR ABBREVIATIONS:

M.C. = MECHANICAL CONTRACTOR

C.C. = CONTROLS CONTRACTOR

R.C. = CERTIFIED ROOFING CONTRACTOR

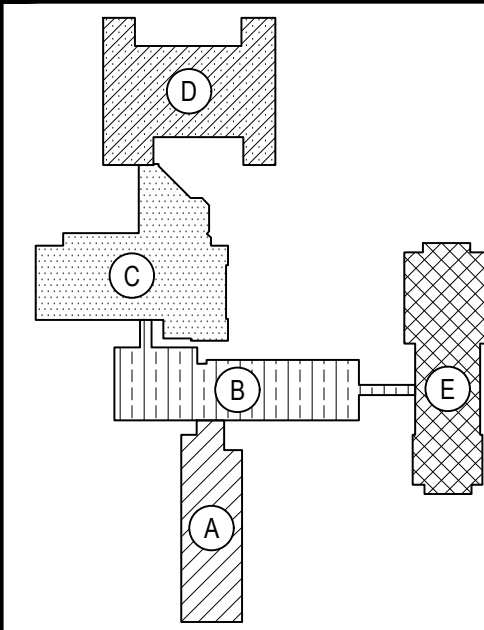
P.C. = PLUMBING CONTRACTOR

E.C. = ELECTRICAL CONTRACTOR

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE / HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
MECHANICAL GENERAL NOTES AND SYMBOLS

DRAWING BY: DS  
CHECK BY: DS

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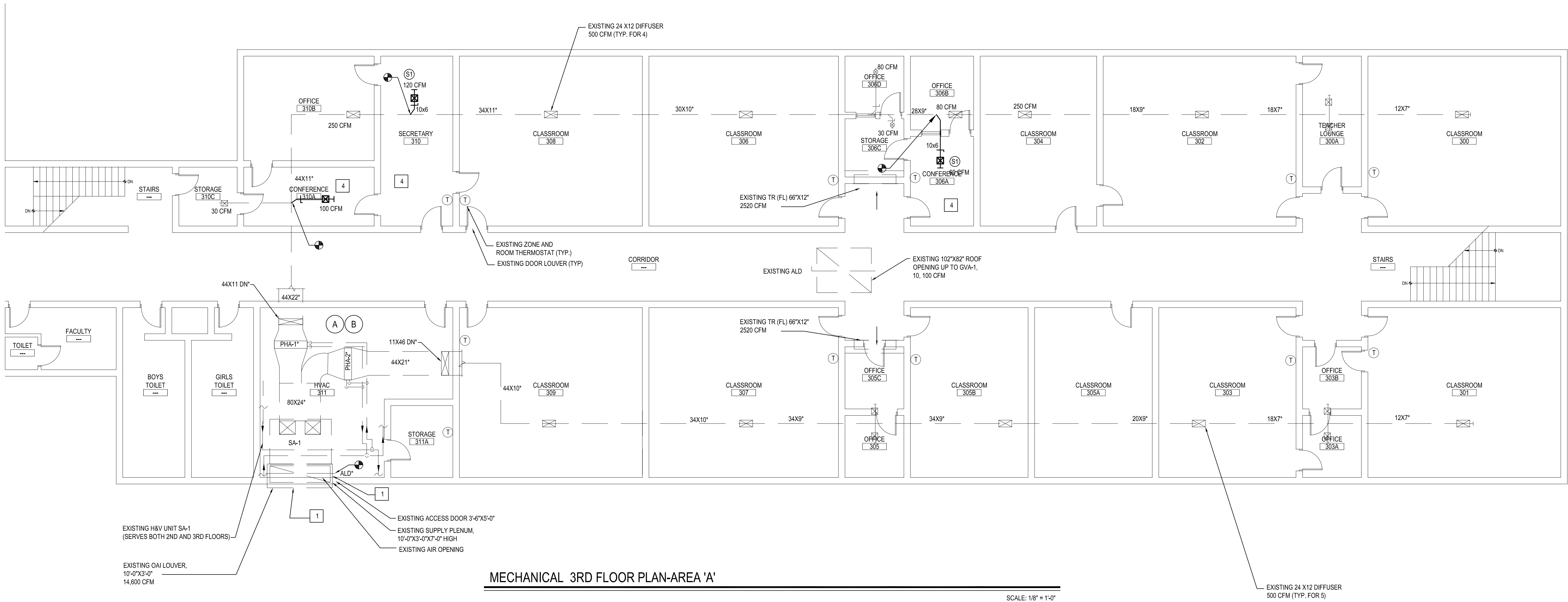
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PATCHOGUE, NEW YORK 11772 ALBANY, NEW YORK 12205  
T. 631.475.0349 T. 518.621.7650  
F. 631.475.0361 F. 518.621.7655

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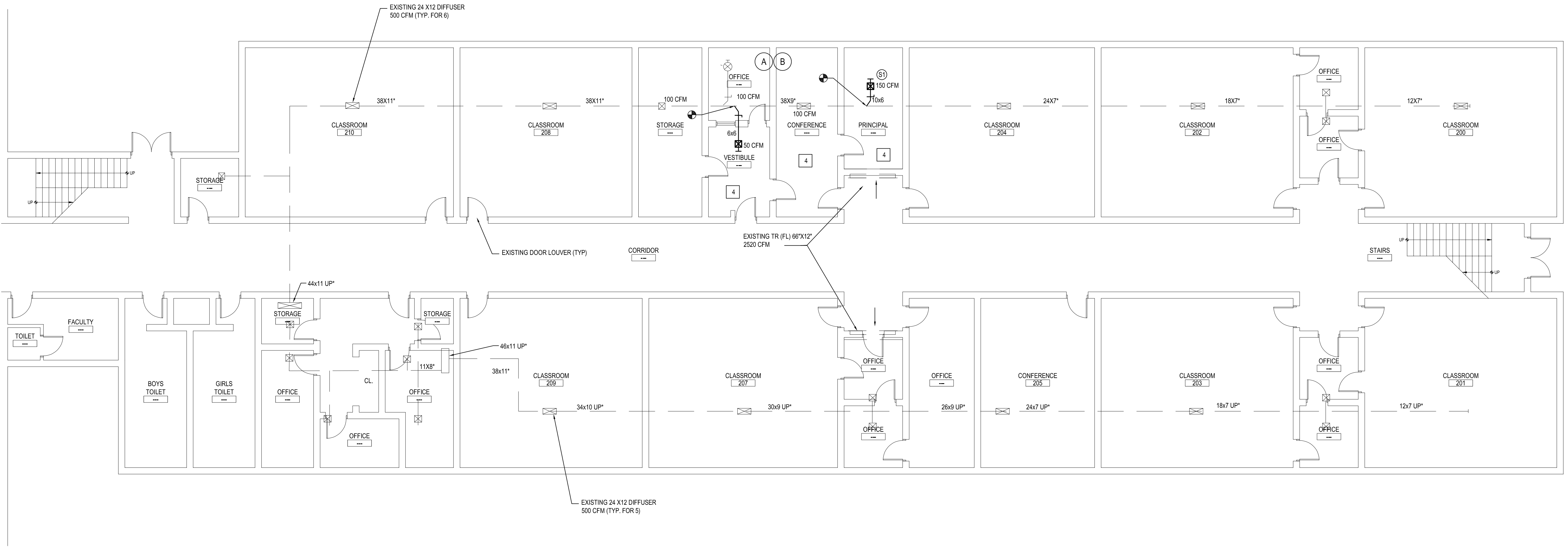
SED No: 66-04-07-06-0-007-022  
DISTRICT: GREENBURGH CSD  
PROJECT: PH I - DW CAP IMPROVEMENTS  
WOODLANDS M.S.H.S.  
DWG TITLE: MECHANICAL GENERAL  
NOTES AND SYMBOLS  
SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-291

M0.01D



MECHANICAL 3RD FLOOR PLAN-AREA 'A'

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



MECHANICAL 2ND FLOOR PLAN-AREA 'A'

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

VENTILATION SCHEDULE

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow, CFM, Voz	OAI (CFM) Supplied
310 B	Office space	5	5	0.06	0	319	2	30	0.8	38	250
310A	Conference room	50	5	0.06	0	180	9	56	0.8	70	100
310C	Storage room	0	0	0.12	0	80	0	10	0.8	13	30
310	Office space	5	5	0.06	0	287	2	28	0.8	35	120
306A	Conference room	50	5	0.06	0	133	7	43	0.8	54	60
306B	Office space	5	5	0.06	0	109	1	12	0.8	15	80
306D	Office space	5	5	0.06	0	77	1	10	0.8	13	30
300C	Storage room	0	0	0.12	0	80	0	10	0.9	12	15
206 Storage	Office space	5	5	0.06	0	254	2	26	0.9	29	100
206	Office space	5	5	0.06	0	105	1	12	0.9	14	100
206 Vestibule	Main entry lobby	10	5	0.06	0	130	2	18	0.9	20	50
206 Conf.	Conference/meeting	50	5	0.06	0	245	13	80	0.9	89	100
206 Principal	Office space	5	5	0.06	0	168	1	16	0.9	18	150

DIFFUSER & REGISTER SCHEDULE (ANEMOSTAT AS STANDARD)						
TAG	MANUFACTURER MODEL NO.	MODULE SIZE	NECK SIZE	MAXIMUM NC LEVEL	CFM RANGE	SYMBOL/FLOW PATTERN
S1	CEILING DIFFUSER ANEMOSTAT MODEL DP T-BAR LAY-IN	12x12	6"	20 NC	UP TO 189	☒ ALL FLOW PATTERNS
R1	CEILING GRILLES ANEMOSTAT	24x24	22x22	26 NC	UP TO 1400	☑
R2	MODEL 36-45	12x12	10x10	20 NC	UP TO 415	☑
REMARKS						
1. COORDINATE BORDER TYPE TO ALL AIR OUTLETS WITH CEILING CONSTRUCTION. SEE DRAWINGS.						
2. ALL AIR OUTLETS TO BE WHITE FINISH.						

- NOTES:
- REPLACE BOTH AUTOMATIC OAI DAMPER AND RETURN PLENUM DAMPER WITH NEW TO MATCH EXISTING. REPLACE PNEUMATIC CONTROLS WITH NEW TO MATCH EXISTING. NEW OAI DAMPER TO BE OPENED TO BRING IN MIN. REQUIRED VENTILATION DURING ALL SEASONS. V.I.F. EXISTING DAMPERS SIZES AND EXACT LOCATION IN THE MIXING PLENUM
  - CONTROLS SUBCONTRACTOR. UNDER CONTRACT TO MECHANICAL CONTRACTOR
  - BALANCE NEW AND EXISTING DIFFUSERS FOR ROOMS 310, 306, 304 AND 206 AS INDICATED ON DWG
  - NC TO REPAIR CEILING GRID AFTER NEW HVAC WORK IS DONE

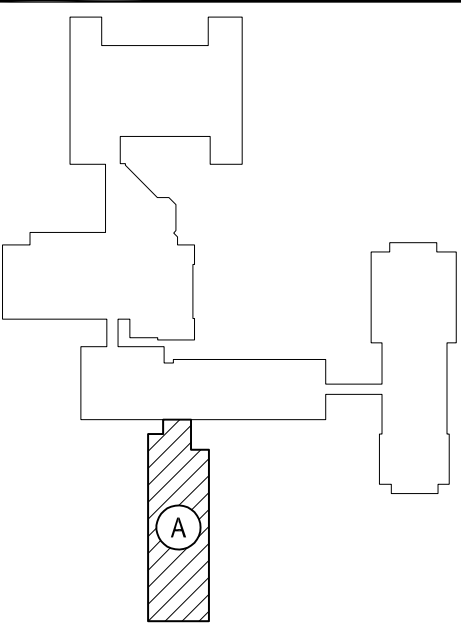
ABATEMENT NOTES

- (A) REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH CANVAS WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 96 AND SPECIFICATIONS.
- (B) REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH TAR CONTAINING WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 96 AND SPECIFICATIONS.
- (C) REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING DUCT INSULATION. AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN CAFETERIA MECHANICAL ROOM #1. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 96 AND SPECIFICATIONS.

NOTES:  
REFER TO ENVIRONMENTAL CONSULTANTS' REPORT FOR PROJECT # 21018. CONTAINED WITHIN THE PROJECT MANUAL. FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIRONMENTAL FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.

REV.	DATE	ITEM

NOTICE  
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KEY PLAN  
NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE/HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT  
DRAWING BY: DS  
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SED No: 66-04-07-06-0-007-022

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
WOODLANDS M.S.H.S.

DWG TITLE: MECHANICAL 2ND AND 3RD FL.  
PLAN - AREA 'A'

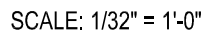
SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

FILE No: 21-291

M1.01D



CONTROLS SUBCONTRACTOR, UNDER  
CONTRACT TO MECHANICAL CONTRACTOR

REFER TO ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT #21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIROSCIENCE FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.

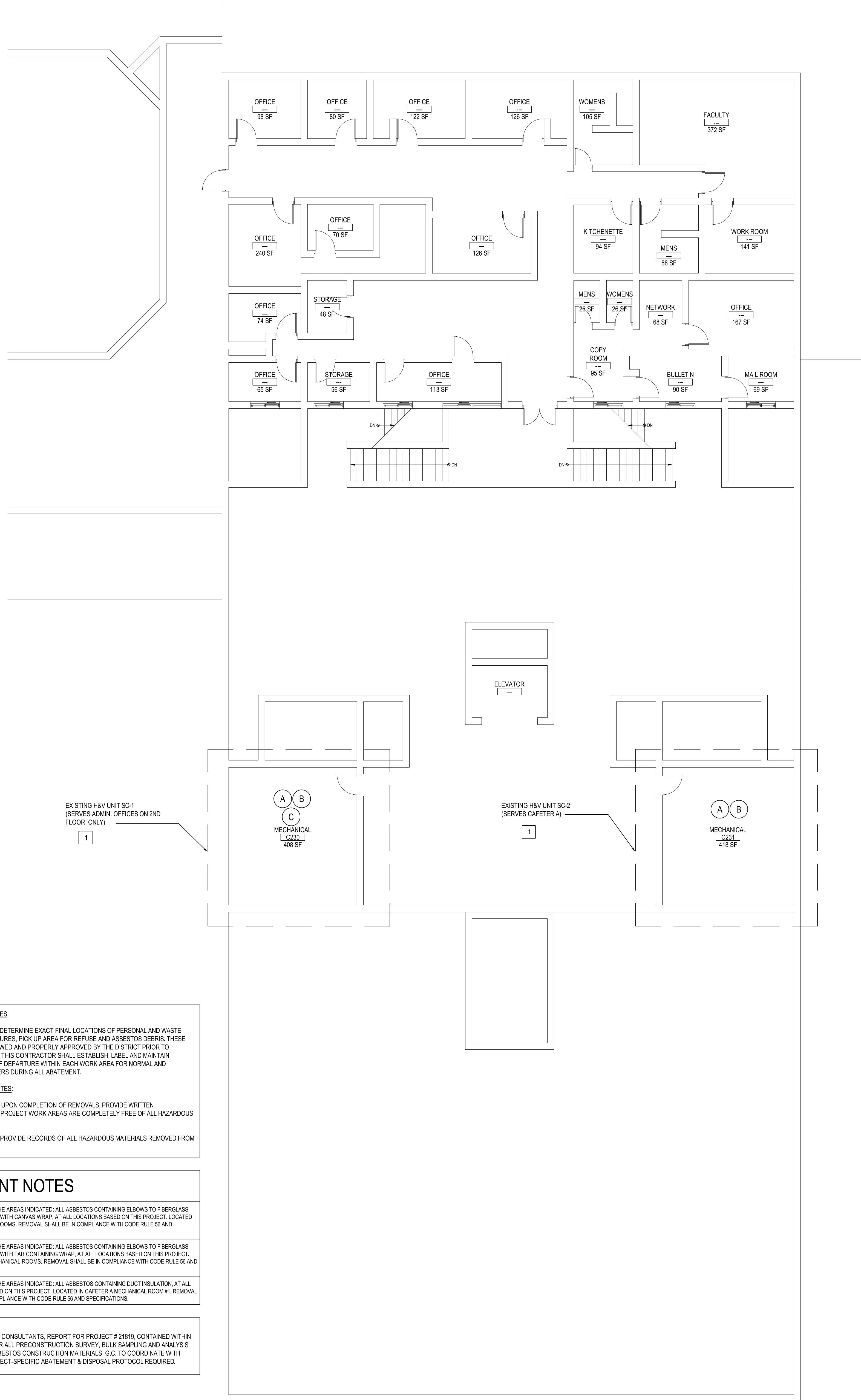
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M1.02D



MECHANICAL GROUND FL. PLAN-AREA 'C'

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



MECHANICAL 2ND FL. PLAN-AREA 'C'

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

REV.	DATE	ITEM

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**KEY PLAN**  
NOT TO SCALE

**PROJECT**  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE/ HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

**DWG TITLE**  
MECHANICAL GROUND AND 2ND FL. PLAN - AREA 'C'

**DRAWING BY:** DS  
**CHECK BY:** DS

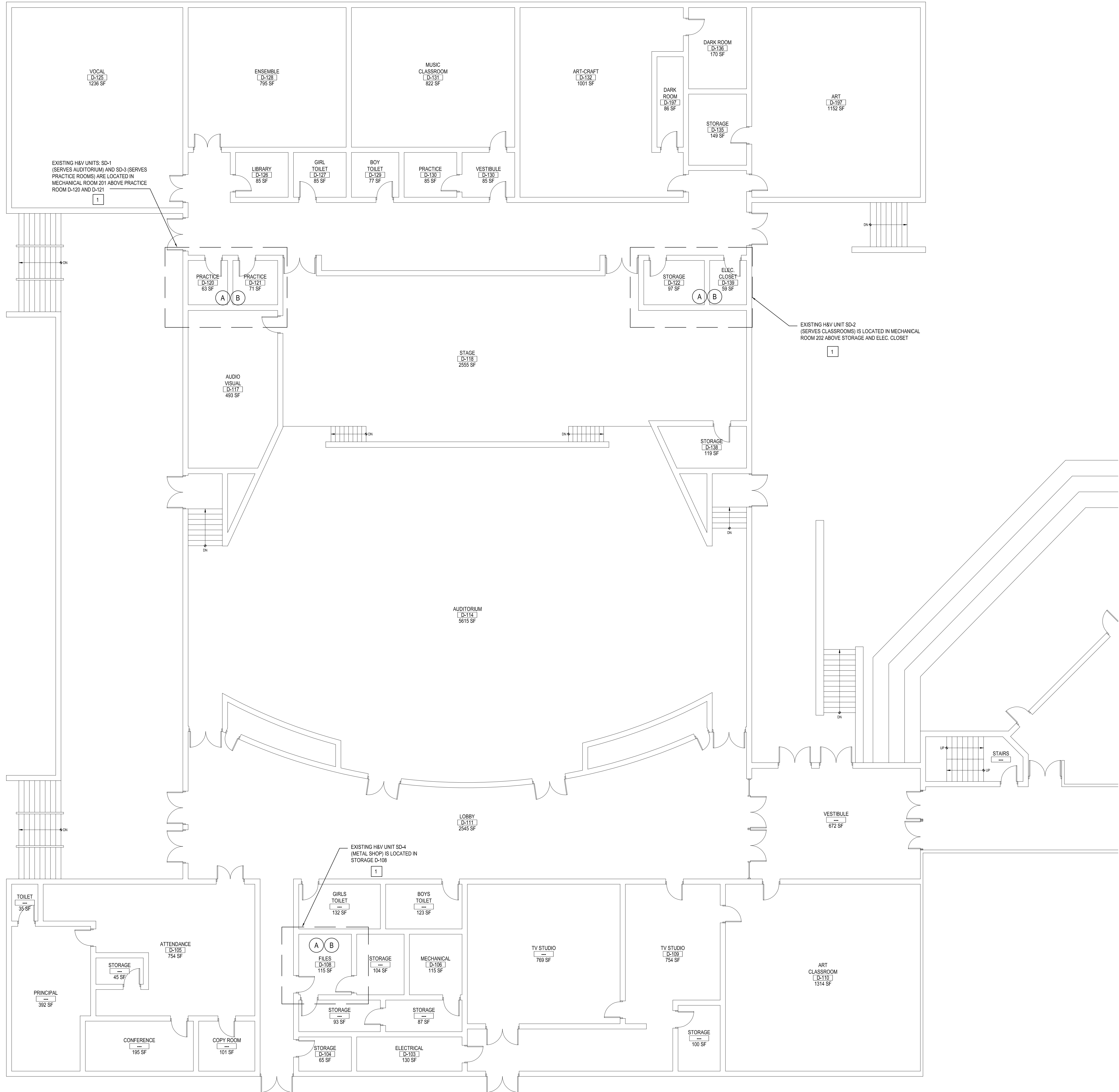
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**SED No:** 66-04-07-06-0-007-022  
**DISTRICT:** GREENBURGH CSD  
**PROJECT:** PH I - DW CAP IMPROVEMENTS WOODLANDS M.S.H.S.  
**DWG TITLE:** MECHANICAL GROUND AND 2ND FL. PLAN AREA 'C'  
**SCALE:** AS NOTED  
**DATE:** MAY 2022  
**BID PICK-UP:** MAY 27, 2022  
**FILE No:** 21-291

**M1.03D**



NOTES:

1. V.I.F. EXISTING OAI DAMPER. EXACT LOCATION IN THE MIXING PLENUM OUTSIDE WALL.  
- INSPECT OAI DAMPER BLADES FOR FREE, UNHINDERED MOVEMENT. REMOVE RUST FROM DAMPER BLADES IF NECESSARY.  
- TEST DAMPER WITH ACTUATOR UNPLUGGED, TO ENSURE DAMPER WORKS ON ITS OWN.  
- CHECK SEALS FOR TIGHT CLOSURE, REPLACE WORN SEALS WITH NEW ONES.  
- REPLACE ANY WORN OR RUSTED BUSHING AND PIN.  
- APPLY APPROVED LUBRICANTS TO ALL METALLIC PARTS.  
- REPLACE IF NECESSARY PNEUMATIC ACTUATOR WITH NEW TO MATCH EXISTING.  
- OAI DAMPER TO BE OPENED TO BRING IN MIN. REQUIRED VENTILATION IN ALL SEASONS.
2. CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR

PRE-ABATEMENT WORK NOTES:

1. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

POST-ABATEMENT WORK NOTES:

1. THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.  
2. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.

ABATEMENT NOTES

- A. REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH CANVAS WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
- B. REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING ELBOWS TO FIBERGLASS PIPE INSULATION WITH TAR CONTAINING WRAP. AT ALL LOCATIONS BASED ON THIS PROJECT LOCATED IN MECHANICAL ROOMS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
- C. REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING DUCT INSULATION, AT ALL LOCATIONS BASED ON THIS PROJECT. LOCATED IN CAFETERIA MECHANICAL ROOM #1. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.

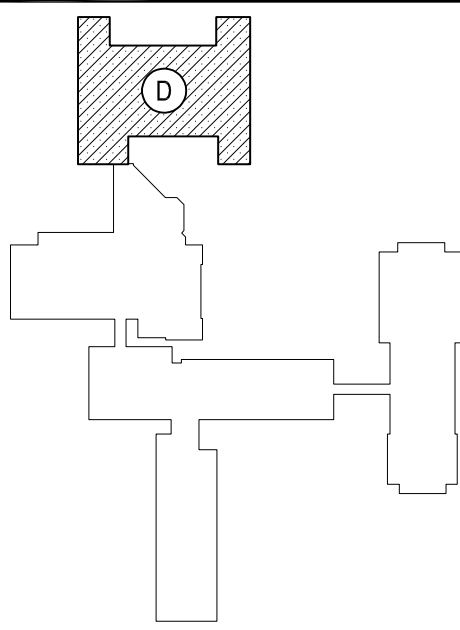
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE/ HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT

MECHANICAL 1ST FLOOR PLAN - AREA 'D'

DWG TITLE

DRAWING BY: DS  
CHECK BY: DS

NOTICE

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DISTRICT

GREENBURGH CSD

PROJECT

PH I - DW CAP IMPROVEMENTS  
WOODLANDS M.S.H.S.

DWG TITLE

MECHANICAL 1ST FLOOR  
PLAN - AREA 'D'

SCALE:

AS NOTED

DATE:

MAY 2022

BID PICK-UP:

MAY 27, 2022

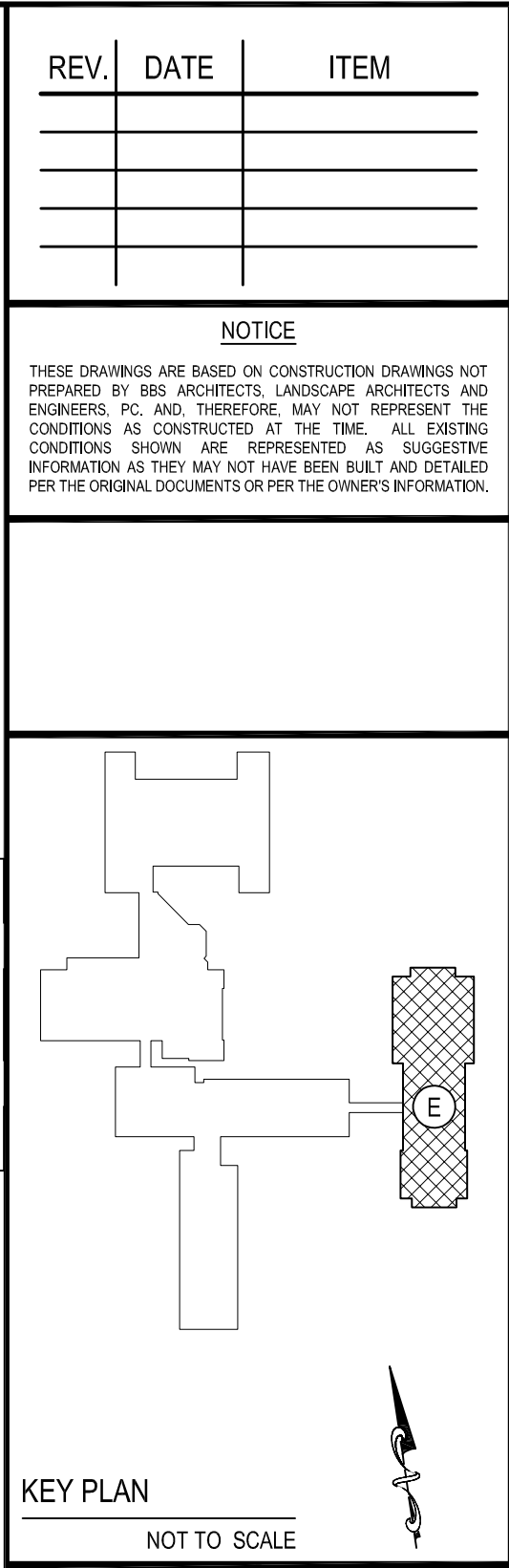
FILE No:

21-291

M1.04D

MECHANICAL 1ST FLOOR PLAN-AREA 'D'

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



DRAWING BY:	DS
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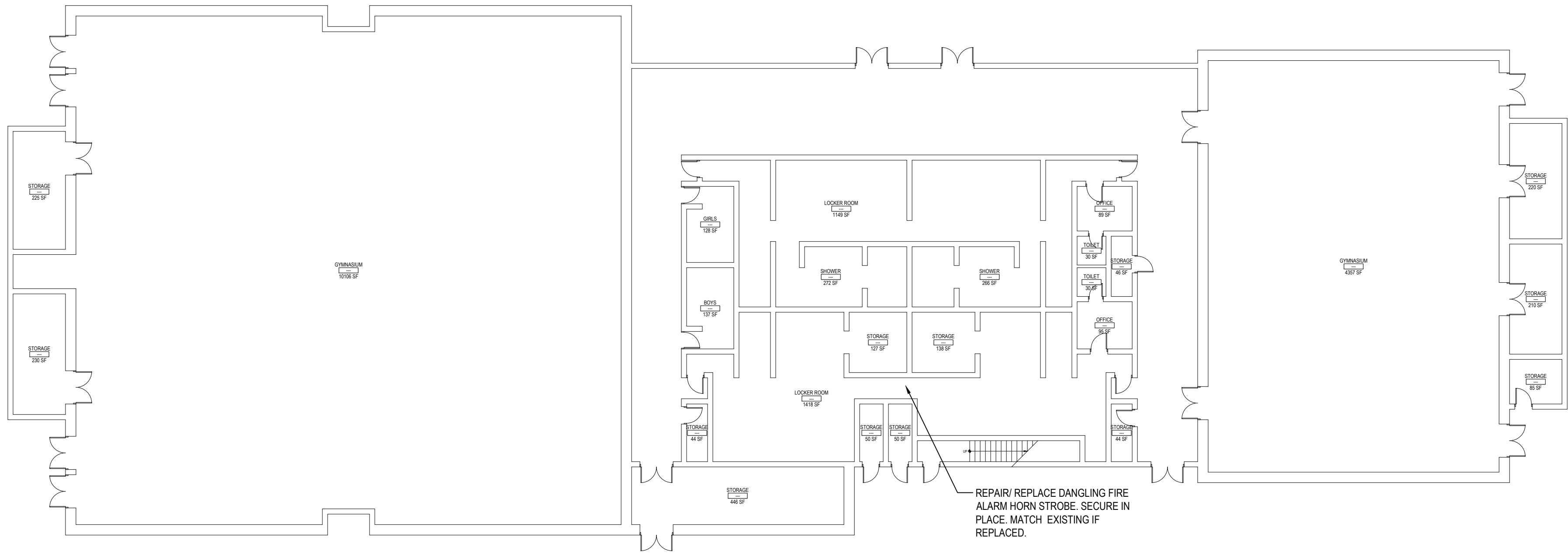
<u>SED No.</u>	66-04-07-06-0-007-022
<u>DISTRICT</u>	GREENBURGH CSD
<u>PROJECT</u>	PH. I - DW CAP. IMPROVEMENTS WOODLANDS M.S./H.S.
<u>DWG TITLE</u>	MECHANICAL 1ST FLOOR PLAN - AREA 'E'
<u>SCALE:</u>	AS NOTED
<u>DATE:</u>	MAY 2022
<u>BID PICK-UP:</u>	MAY 27, 2022
<u>FILE No:</u>	21-291

M1.05D

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

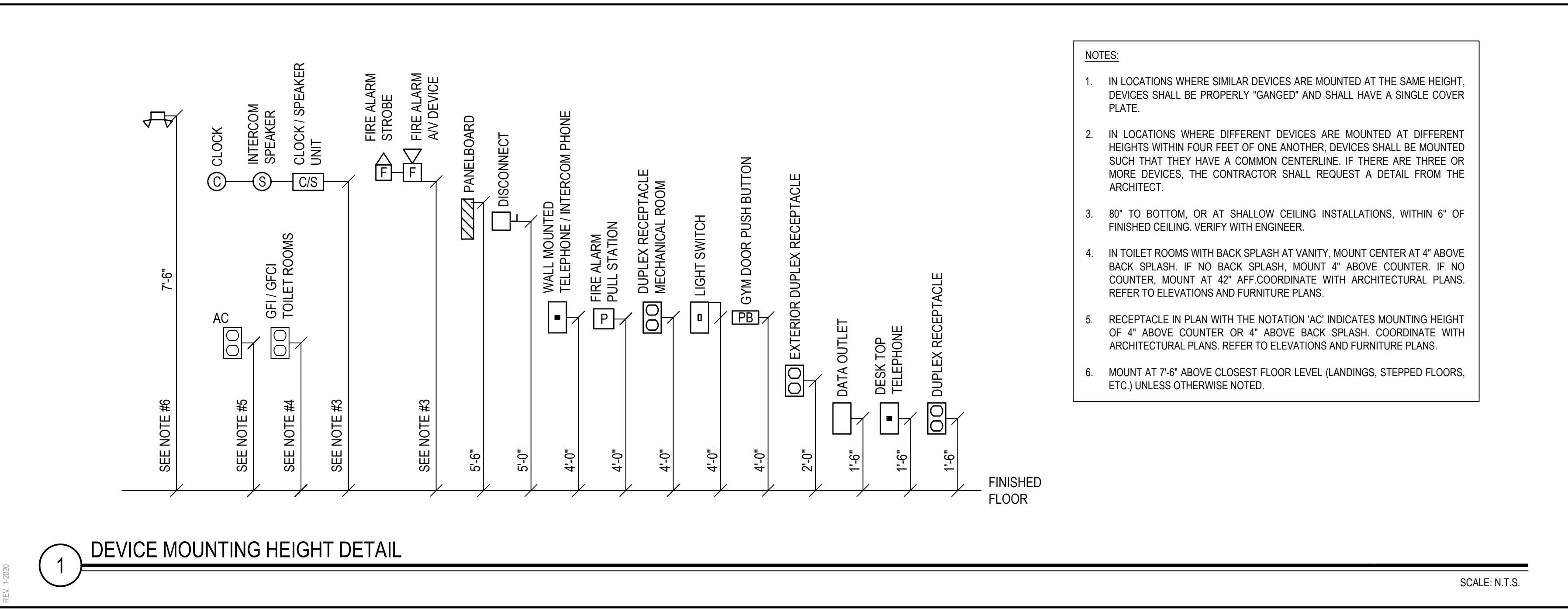
2 CONTROLS SUBCONTRACTOR, UNDER  
CONTRACT TO MECHANICAL CONTRACTOR

**NOTES:**  
REFER TO ENVIROSCIENCE CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIROSCIENCE FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.



PART GROUND FLOOR KEY PLAN  
SEE E1.02D FOR DRAWING NOTES.

SCALE: 1/16" = 1'-0"



1 DEVICE MOUNTING HEIGHT DETAIL

SCALE: N.T.S.

## GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 EDITION OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
2. THE VOLTAGE CHARACTERISTIC OF THIS SCHOOL IS 120/208VAC, 4 WIRE, 3PH, GROUNDING NEUTRAL WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. THE DRAWINGS SHOW SCHEMATICALLY THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL. ANY FIELD CONDITION FOUND AFTER BID APPROVAL, WHICH HAMPERS AND/OR PREVENTS ANY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR. THE DIVISION 16 CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. ALL NEW ELECTRICAL MATERIAL AND EQUIPMENT SHALL CONFORM TO THE STANDARDS AND BEAR THE INSPECTION LABEL OF THE UNDERWRITERS LABORATORIES AND SHALL BE APPROVED FOR USE BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.
7. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. CONTRACTOR TO COORDINATE ALL LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER. THE EC IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE EC SHALL REFER TO THE MECHANICAL EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN APPROVED ELECTRICAL INSPECTION CERTIFICATE FROM THE LOCAL AHE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. SUBMIT A COPY OF THIS CERTIFICATE TO THE OWNER.
11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN THE PROJECT MANUAL.
12. IF ADDITIONAL POLE POSITIONS ARE REQUIRED FOR NEW CIRCUITS IN EXISTING PANELS SERVING RENOVATED AREAS, REMOVE (3) ADJACENT 1 POLE BREAKERS PROVIDE AND INSTALL 3P, 60A BREAKER FOR SUB FEED TO A SURFACE MOUNTED 100A, 3PH, 18 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH A 1P, 20A BREAKER. PROVIDE (3) 1P, 20A BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3P6 + 1P6(N) + 1P10(G) IN 1".
13. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES UPON COMPLETION. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ALL TRADES FOR THE DURATION OF THE PROJECT. SERVICE SHALL BE SUPPLIED TO CONTRACTORS CONSTRUCTION TRAILERS WHERE SUCH IS REQUESTED. USE THE EXISTING POWER PANELS FOR SUCH SUPPLY. POWER COSTS WILL BE PAID BY THE OWNER. ALL CONSTRUCTION POWER RECEPTACLES SHALL BE GFI PROTECTED.
15. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES FROM DAMAGES DURING CONSTRUCTION. THIS INCLUDES DEVICES WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLES, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
16. THE INDICATED SOURCE OF EXISTING CIRCUITS MAY NOT BE KNOWN OR HAS NOT BEEN VERIFIED. IT IS THE DIVISION 16 CONTRACTOR'S RESPONSIBILITY TO TRACE OUT, LOCATE AND VERIFY THE DISCONNECTING MEANS OF EXISTING CIRCUIT(S) TO BE IMPACTED BY THE WORK. SAFE OFF THE CIRCUIT(S) AS REQUIRED TO SAFELY PERFORM THE WORK, AND RE-ENERGIZE UPON COMPLETION. UPDATE PANEL DIRECTORIES UPON COMPLETION.
17. WHERE EXISTING FIRE ALARM SYSTEMS ARE MODIFIED DURING THE COURSE OF THE PROJECT, PROVIDE OWNER WITH UPDATED COMPLETION RECORD DOCUMENTATION PER NFPA 72, ARTICLE 10.18. INCLUDE COPY OF UPDATED SITE SPECIFIC SOFTWARE. ANY ADDITIONAL DEVICES SHALL BE MAPPED INTO THE SYSTEM WITH THE APPROPRIATE ADDRESS LABELS.
18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. NOTE ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE UTILIZING CEILING FRAMING ALONE IS NOT ACCEPTABLE. NEW LIGHTING FIXTURES (OTHER THAN THEATRICAL EQUIPMENT) SHALL NOT BE DAISY CHAINED. RE-USE OF AN EXISTING LIGHTING CKT INCLUDES HOME RUN WIRING OR WIRING UP TO THE SWITCH, ANY WIRING DOWNSTREAM OF THE SWITCH IS SUBJECT TO REPLACEMENT/REARRANGEMENT. EC SHALL ALLOW FOR THIS IN THE BID PRICE.
19. UNLESS OTHERWISE NOTED ON THE PLANS BRANCH CIRCUIT HOMERUNS OF 100 FT OR LESS SHALL BE 2#12, 1#12G, 3#12 OR EQUIVALENT. HOMERUNS LONGER THAN 100 FT SHALL BE 2#10, 1#10G, 3#10 OR EQUIVALENT.
20. ALL BRANCH CIRCUIT WIRING TO BE 1#12-1#12(N)+1#12(G)-3/4" EMT, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
21. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. ALL DEVICES & CONDUITS ON NEW CONSTRUCTION MUST BE RECESSED. FOR EXISTING SURFACES MECHANICAL WORK SPACES/CONDUITS MAY BE SURFACE MOUNTED. EXISTING PUBLISHED AREAS/ CONDUITS SHALL BE CONCEALED WHEREVER POSSIBLE (IN HUNG CEILINGS, VOIDS/CHASES, FLOOR BELOW OR BEHIND WALLS) ALL WIRING THAT CANNOT BE CONCEALED IN MUST BE RUN IN FINISHED SURFACE RACEWAY SUCH AS WIREMOLD, COLOR PER ARCHITECT. USE OF ADHESIVE IS PROHIBITED. SURFACE RACEWAY MUST BE SECURED USING MECHANICALLY FASTENED CLIPS.
22. ANY LIGHT FIXTURES INSTALLED IN GYMNASIUMS OR OTHER AREAS SUBJECT TO IMPACT OR PHYSICAL DAMAGE SHALL BE MOUNTED WITH SAFETY CHAINS AND SECURED TO STRUCTURE.
23. EMERGENCY AND EXIT LIGHTING FIXTURES SHALL BE WIRED TO THE LOCAL AREA WIRING CIRCUIT AHEAD OF ANY SWITCHING.
24. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL BE LISTED FOR USE IN THE INTENDED PANEL AND SHALL MEET OR EXCEED THE AIC RATING OF THE PANEL.
25. SEE SPEC. SECTION 16100 BASIC MATERIALS AND METHODS FOR COMPLETE NOTES ON INSTALLATION, MISCELLANEOUS MATERIALS AND ELECTRICAL DEVICES.

## FIRE STOP NOTES

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.
2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-615 ELASTOMERIC SEALANT, CP-608 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

## ABBREVIATIONS

A	AMPERAGE OR AMPS
AC	ALTERNATING CURRENT
ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BC	BELOW CEILING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CEILING MOUNTED
DH	DIRECT CURRENT
DC	DOOR HOLDER
DISC	DISCONNECT
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EX	EXISTING
FA	FIRE ALARM
FMC	FLEXIBLE METAL CONDUIT
FT	FEET
GC	GENERAL CONTRACTOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
G, GND	GROUND
GRS	GALVANIZED RIGID STEEL
HD	HAND DRYER
IG	ISOLATED GROUND
IN	INCHES
KW	KILOWATTS
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTH	MOUNTING HEIGHT
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
PA	PUBLIC ADDRESS
PC	PLUMBING CONTRACTOR
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
REQD	REQUIRED
RL	RELOCATED
SCH	SCHEDULE
SM	SURFACE MOUNTED
SPO	SURGE PROTECTIVE DEVICE
SQ	SQUARE
SWBD	SWITCHBOARD
SWG	STEEL WIRE GUARD
TSP	TWISTED SHIELDED PAIR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDER GROUND
UTP	UNSHIELDED TWISTED PAIR
UWS	UNTWISTED
V	VOLTAGE OR VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTAGE OR WATTS
WG	WIRE GUARD
WM	WALL MOUNTED
WP	WEATHER PROOF
XFMR	TRANSFORMER

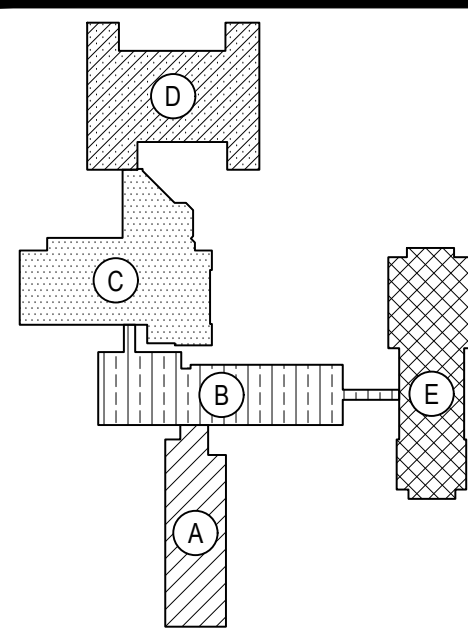
## EXISTING FIRE ALARM SYSTEM NOTES

1. DIVISION 16 CONTRACTOR SHALL EXTEND THE EXISTING FIRE ALARM SYSTEM TO PROVIDE COVERAGE FOR THE NEW AREAS AND/OR DEVICES AND INTEGRATE THEM INTO THE SYSTEM. NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM PANEL WHICH IS TO REMAIN. ALL NEW DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS AND FULLY INTEGRATED INTO THE SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ITEMS ON THE DRAWING AND ALL RELATED EXPANSION, ADAPTIVE, AND CONNECTING WIRING, REPROGRAMMING AND DEVICES FOR A FULLY FUNCTIONING SYSTEM.
2. ALL FIRE ALARM WORK SHALL BE PERFORMED BY MANUFACTURER CERTIFIED TECHNICIANS.
3. DIVISION 16 CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS FOR THIS PROJECT AND PAY RELATED FEES. HE SHALL SUBMIT SHOP DRAWINGS ON ALL HARDWARE. THE SHOP DRAWINGS SHALL CONTAIN A SYSTEM RISER DIAGRAM.
4. DIVISION 16 CONTRACTOR TO PROTECT OR TEMPORARILY DISCONNECT / RECONNECT EXISTING FIRE ALARM DEVICES TO ACCOMMODATE NEW CONSTRUCTION AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR. WHERE PLANS CALL FOR EXISTING DEVICE TO BE RELOCATED, EXTEND WIRING AS REQUIRED.
5. ALL NEW FIRE ALARM DEVICES SHALL BE OF THE SAME MANUFACTURER AND COMPATIBLE WITH THE FIRE ALARM PANEL.
6. PROVIDE ADAPTIVE HARDWARE TO POWER THE HORN STROBES, STROBES AND MAGNETIC DOOR HOLDERS.
7. ALL WORK SHALL BE IN ACCORDANCE WITH SYSTEM MANUFACTURER SPECIFICATIONS, LATEST EDITION OF NEC, ANY LOCAL, STATE CODES, AND ENGINEERING SPECIFICATIONS.
8. ALL WIRING SHALL BE AS SPECIFIED BY SYSTEM MANUFACTURER AND PLENUM RATED.
9. DIVISION 16 CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EQUIPMENT, SYSTEM MODULES, POWER SUPPLIES ETC. NEEDED TO HAVE A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE NEW REMOTE ANNUNCIATOR PANEL(S) WHERE INDICATED INCLUDING UPDATED GRAPHIC MAPS. UPDATED MAPS SHALL ALSO INDICATE THE LOCATIONS OF ALL AREA OF RESCUE ASSISTANCE (REFUGE) CALL STATIONS. SUBMIT PROPOSED MAPS FOR APPROVAL.
10. THE DIVISION 16 CONTRACTOR SHALL FIELD SELECT THE PROPER OUTPUT SETTINGS OF FIRE ALARM HORNS AND STROBES TO MEET THE MINIMUM CODE PERFORMANCE REQUIREMENTS TO SUIT THE AREAS BEING SERVED.
11. PROVIDE AS-BUILT DRAWINGS AND COPY OF UPDATED SITE SPECIFIC SYSTEM SOFTWARE, INCLUDING PASSWORDS TO THE DISTRICT AT NO ADDITIONAL CHARGE.

REV.	DATE	ITEM

### NOTICE

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### KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE/ HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT  
DRAWING BY: DG  
CHECK BY:

ELECTRICAL  
NOTES & PLANS

NOTICE  
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PATCHOGUE | ALBANY  
NEW YORK 11772 | NEW YORK 12205  
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F: 631.475.0361 | F: 518.621.7655

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SED No: 66-04-07-06-0-007-022  
DISTRICT: GREENBURGH CSD  
PROJECT: PH I - DW CAP IMPROVEMENTS  
WOODLANDS M.S.H.S.  
DWG TITLE: ELECTRICAL NOTES & PLANS

SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-291

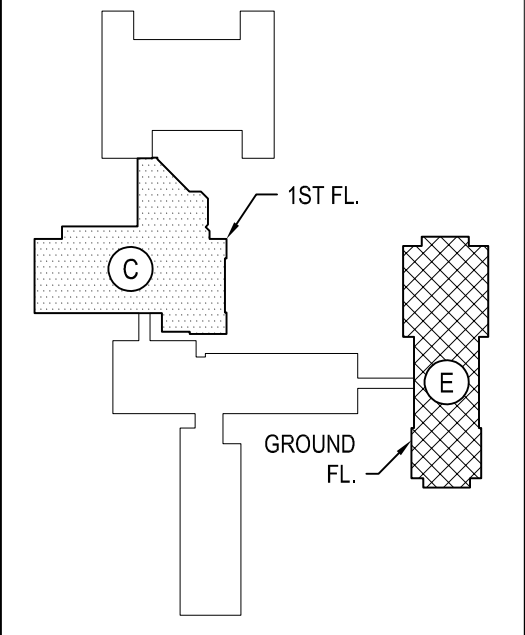
E1.01D

- NOTES:
1. THE EXISTING BUILDING FIRE ALARM SYSTEM IS A GAMWELL E3 SERIES SYSTEM BY HONEYWELL, MAINTAINED BY ALARM SPECIALISTS, INC. (914)845-1998. EC TO COORDINATE WITH DISTRICT TO LOCATE FACP AND LOCAL POWER SUPPLIES AS REQUIRED TO WIRE NEW DEVICES.
  2. ALL MAGNETIC DOOR HOLDERS SHALL BE WIRED TO THE BUILDING FIRE ALARM SYSTEM TO RELEASE UPON ALARM.
  3. PROVIDE ANY REQUIRED INTERFACES, POWER SUPPLIES, ETC FOR COMPLETE AND OPERATIONAL INSTALLATION.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
WOODLANDS MIDDLE/ HIGH SCHOOL  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PROJECT

DWG TITLE

DRAWING BY: DG

CHECK BY:

NOTICE

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SED No: 66-04-07-06-0-007-022

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP IMPROVEMENTS  
WOODLANDS M.S.H.S.

DWG TITLE: ELECTRICAL 1ST FLOOR PLAN

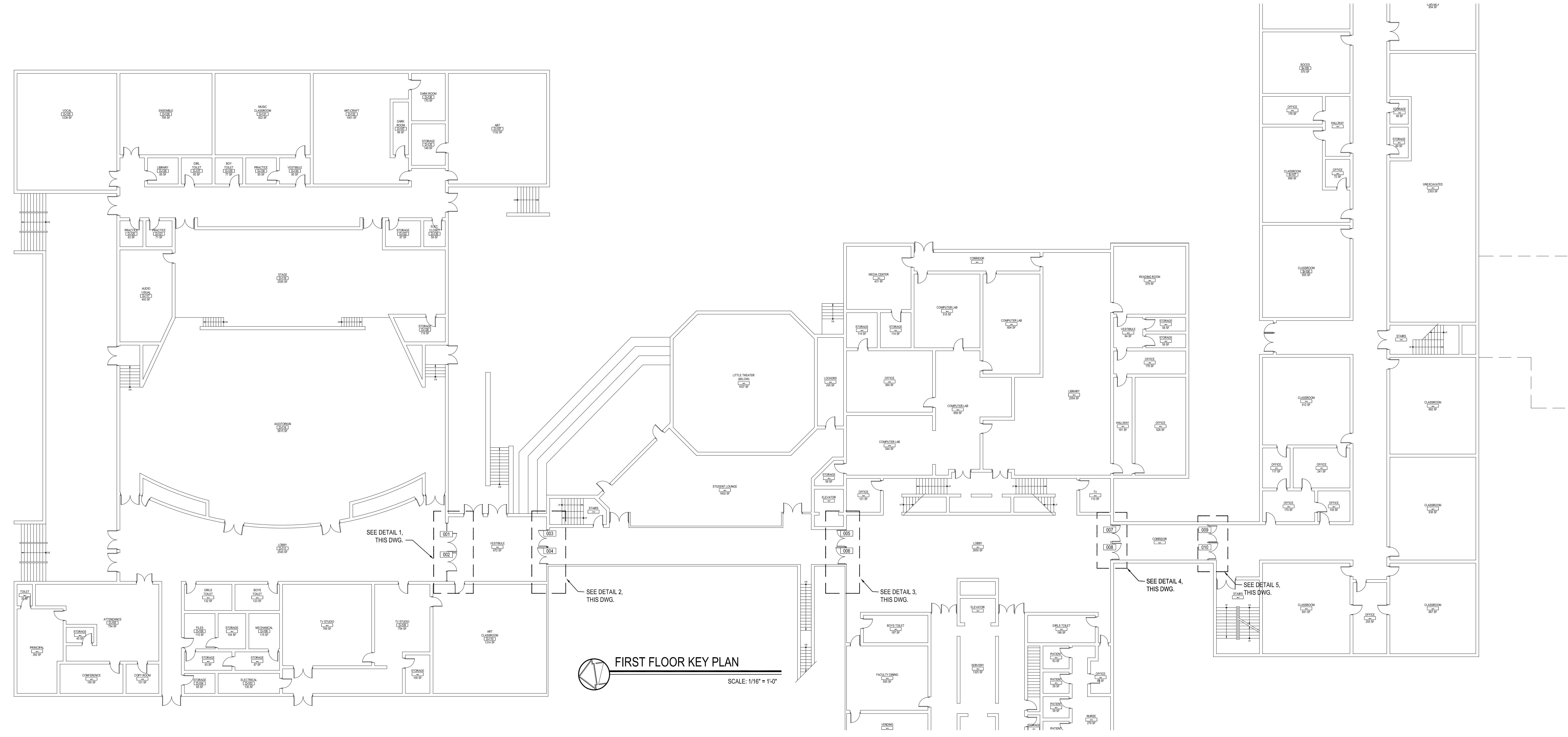
SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

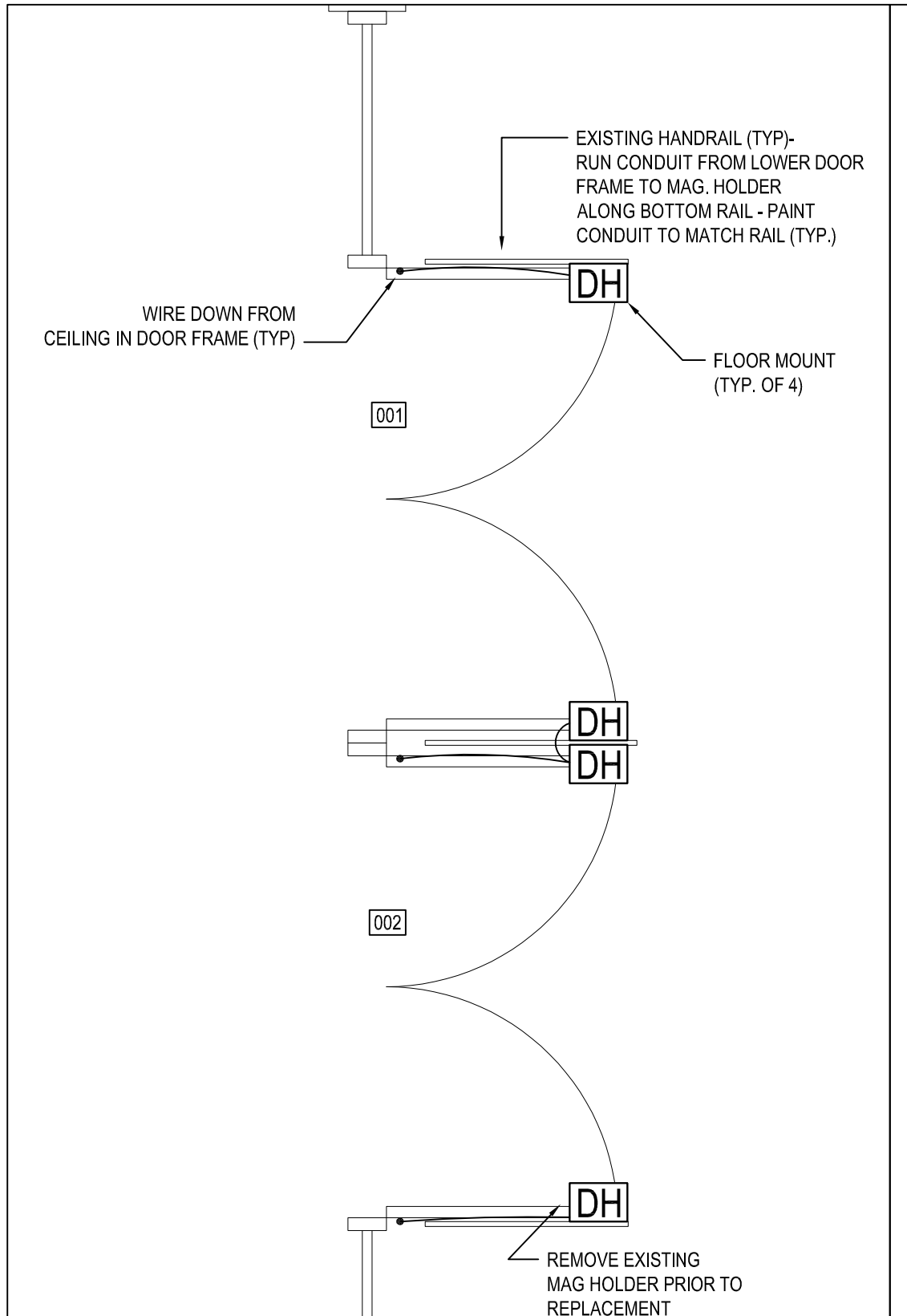
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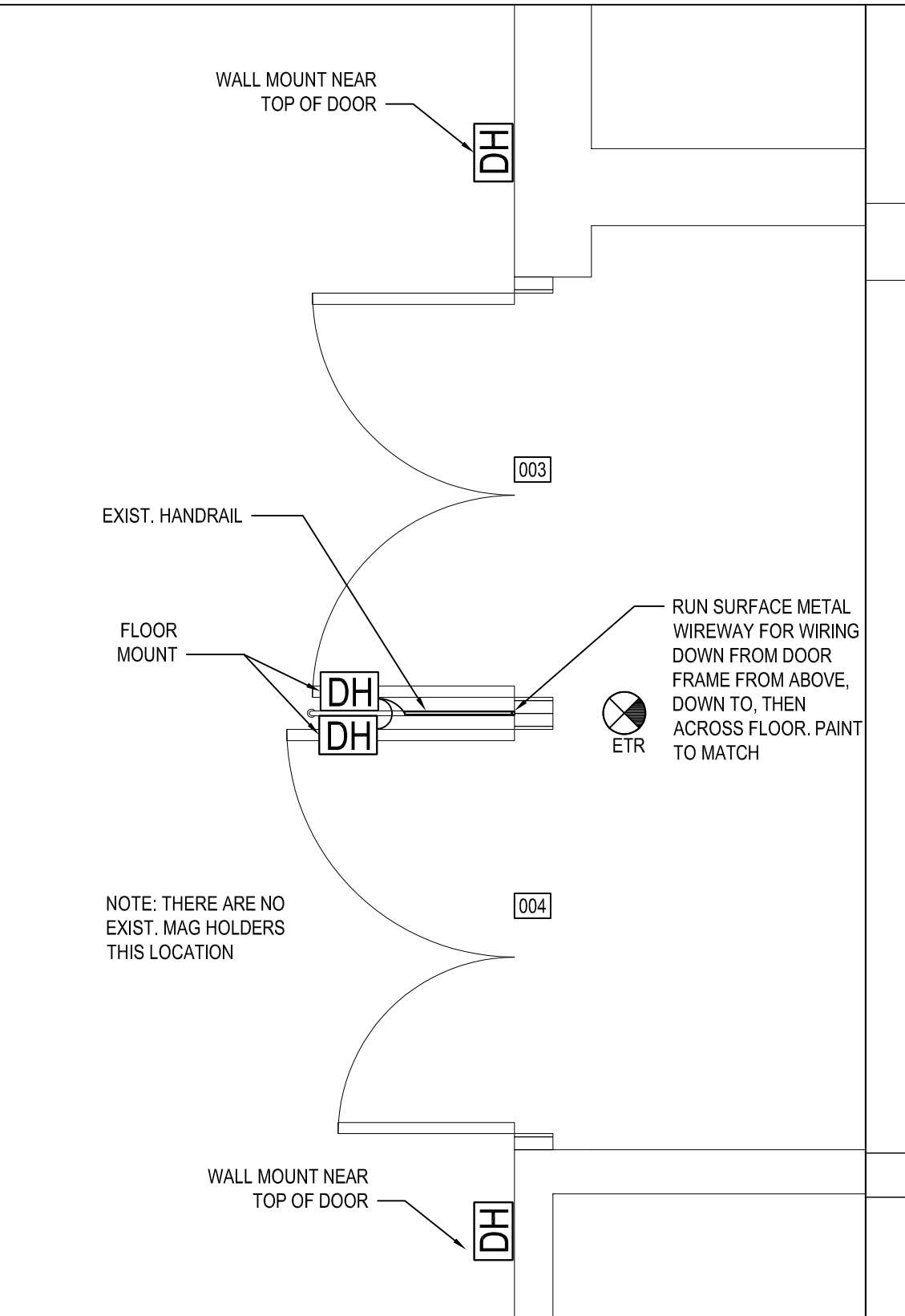
FIRST FLOOR KEY PLAN

SCALE: 1/16" = 1'-0"



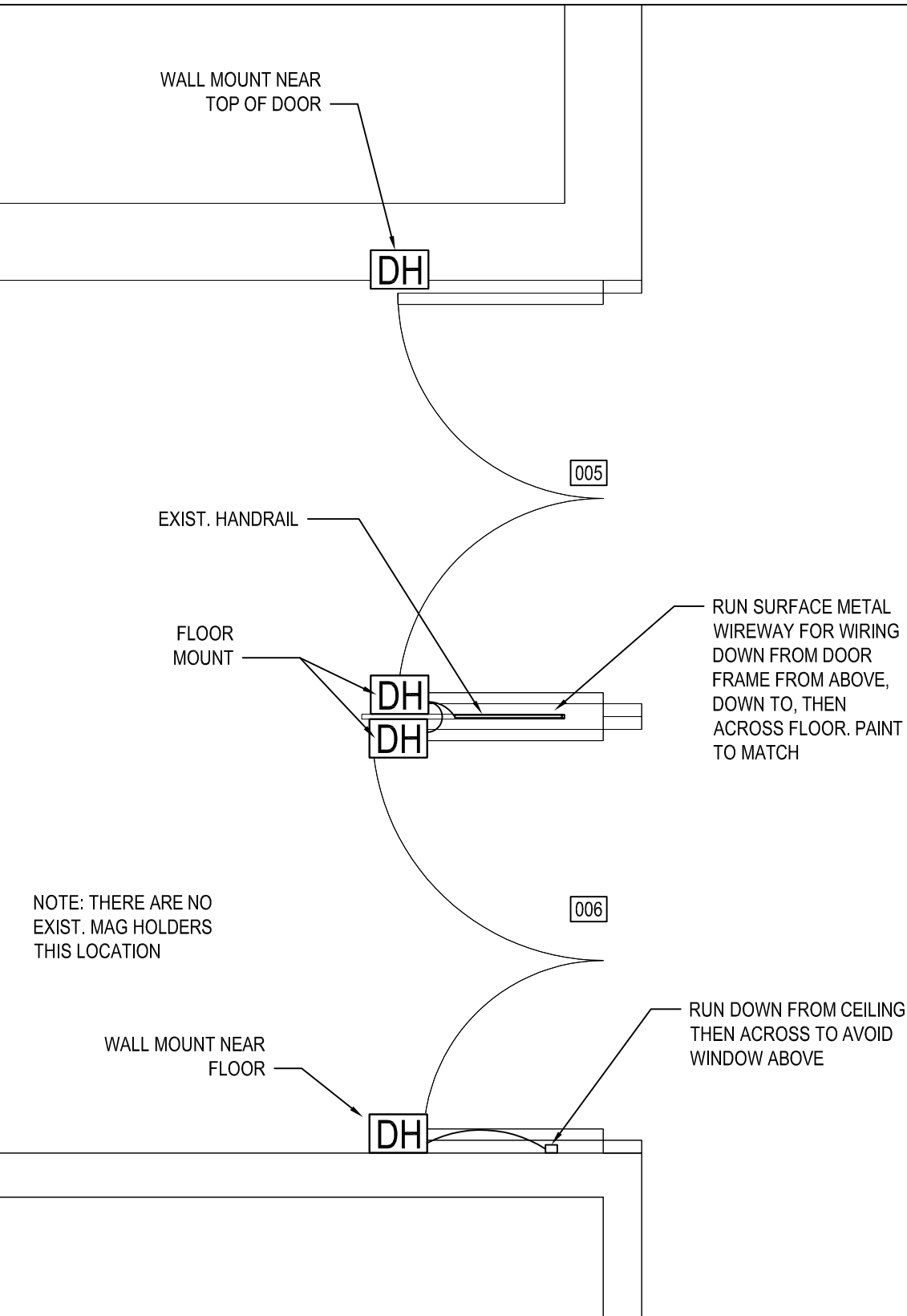
1 MAG. HOLDER REPLACEMENT  
@ DOORS #001 & 002

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



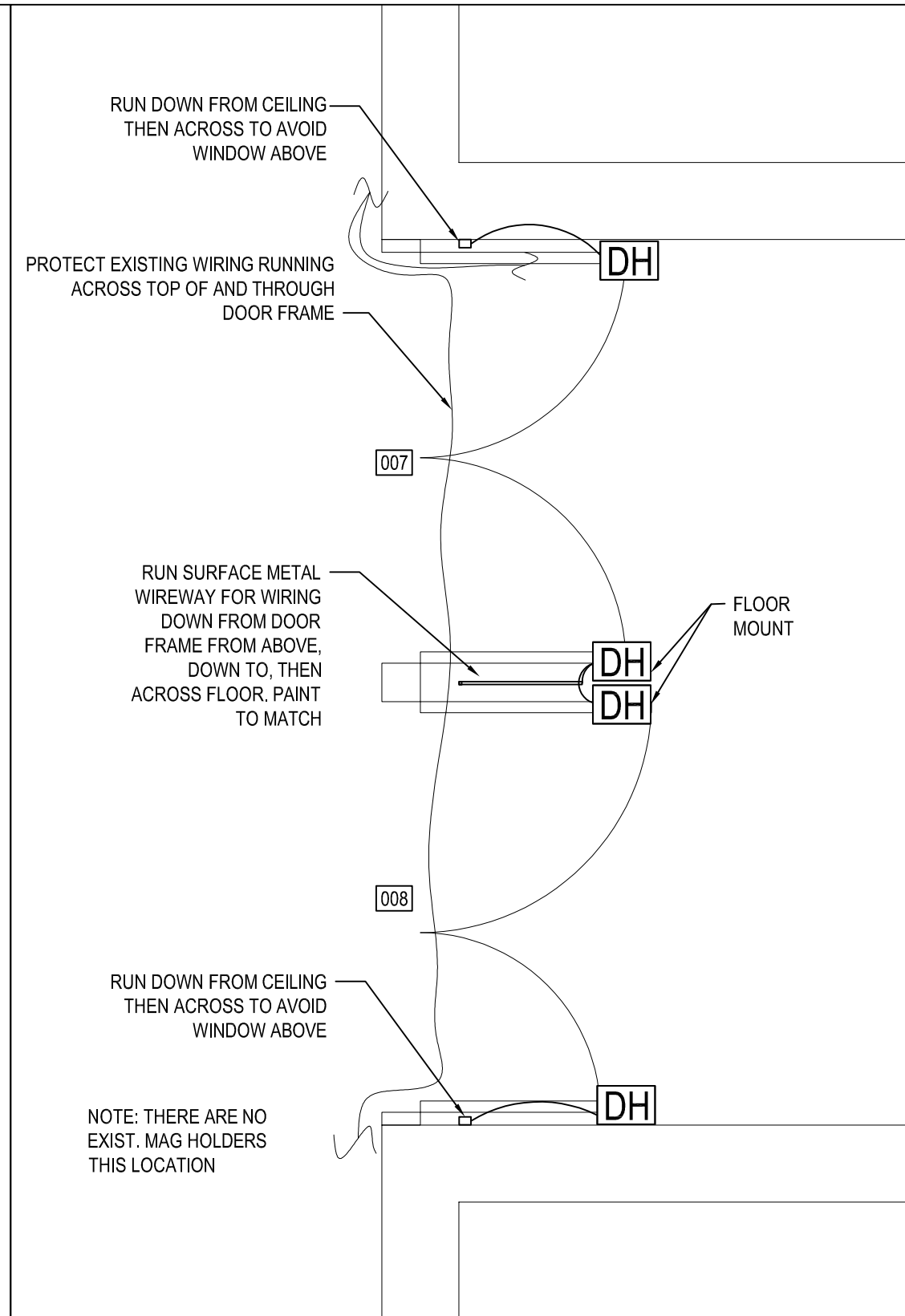
2 MAG. HOLDER INSTALLATION  
@ DOORS# 003 & 004

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



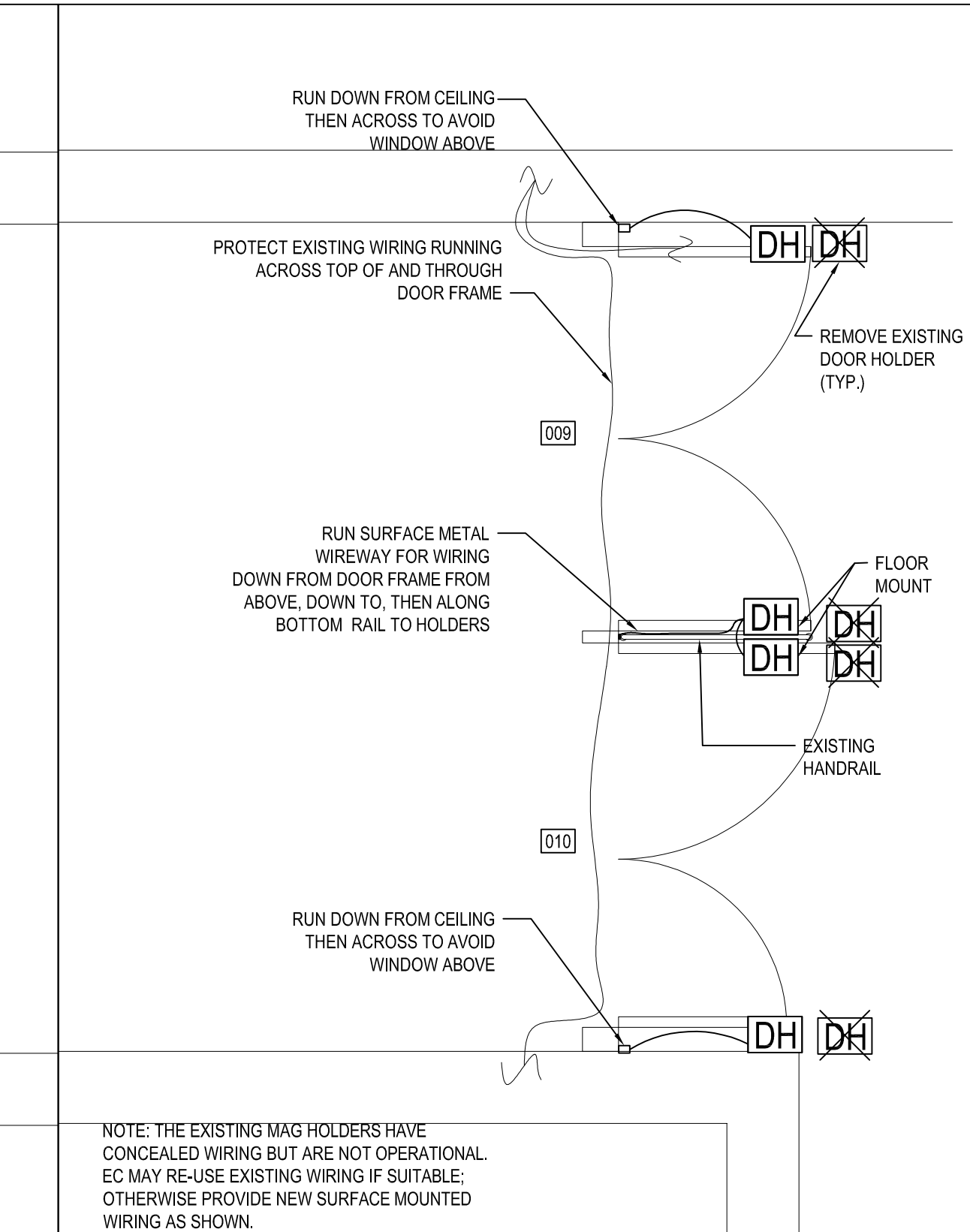
3 MAG. HOLDER INSTALLATION  
@ DOORS# 005 & 006

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



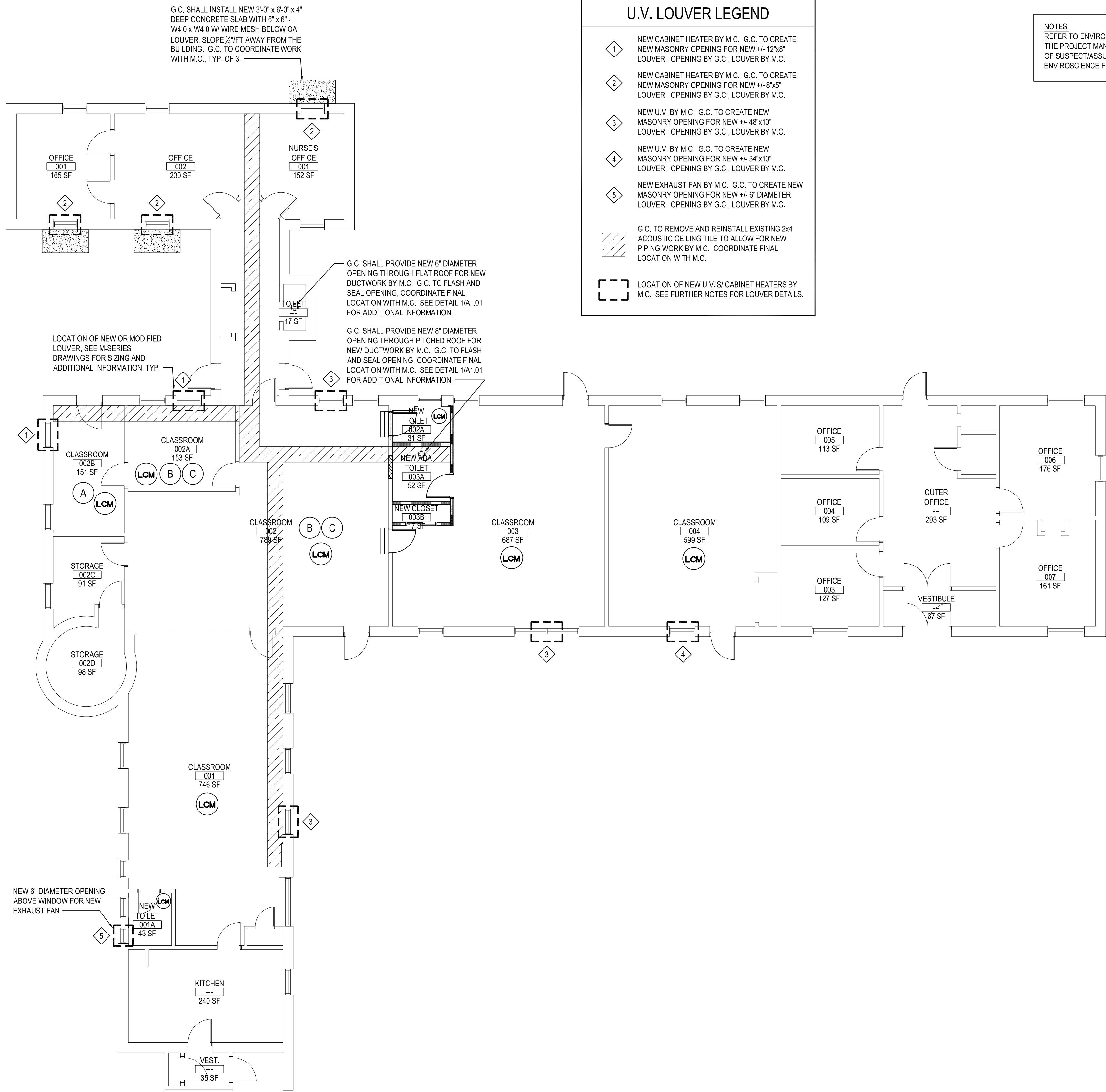
4 MAG. HOLDER INSTALLATION  
@ DOORS# 007 & 008

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



5 MAG. HOLDER REPLACEMENT  
@ DOORS# 009 & 010

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



**DEMOLITION and REMOVAL NOTES**

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C., AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR. NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND /OR RECONSTRUCTION.
2. ALL OPENINGS IN EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE PATCHED AS REQUIRED AND MASONRY TOOTHED-IN TO MATCH ADJACENT.
3. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
4. G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.

**PRE-ABATEMENT WORK NOTES:**

1. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

**POST-ABATEMENT WORK NOTES:**

1. THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN DOCUMENTATION THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL HAZARDOUS MATERIALS.
2. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE.

**ABATEMENT NOTES**

A	REMOVE FROM THE AREAS INDICATED: ALL ASBESTOS CONTAINING 9"x9" FLOOR TILE, RED, AND MASTIC, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN CLASSROOM #008. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
B	REMOVE FROM THE AREAS INDICATED: ALL PRESUMED ASBESTOS CONTAINING 9"x9" FLOOR TILE, BLUE, AND MASTIC, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN CLASSROOMS #002 & #004. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.
C	REMOVE FROM THE AREAS INDICATED: ALL PRESUMED ASBESTOS CONTAINING 9"x9" FLOOR TILE, WHITE, AND MASTIC, AT ALL LOCATIONS BASED ON THIS PROJECT, LOCATED IN CLASSROOMS #002 & #004. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS.

**NOTES:**  
REFER TO ENVIRONMENTAL CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR ALL PRECONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT/ASSUMED ASBESTOS CONSTRUCTION MATERIALS. G.C. TO COORDINATE WITH ENVIRONMENTAL CONSULTANTS FOR PROJECT-SPECIFIC ABATEMENT & DISPOSAL PROTOCOL REQUIRED.

**LEAD CONTAINING NOTES**

CONTRACTOR SHALL NOTE THAT LEAD PAINT EXISTS ON EXISTING WOOD WINDOW FRAMES, PLASTER WALLS, WOOD WINDOW STOOLS, WOOD PANEL TO FIRE ALARM, WOOD WALLS, WOOD DOOR FRAMES, METAL WINDOW SASH, METAL WINDOW FRAMES, AND PLASTER CEILING. LOCATIONS FOR LEAD CONTAINING MATERIALS CAN BE FOUND THROUGHOUT BUILDING BUT NOT LIMITED TO CLASSROOMS #001, #002, #002A, #002B, #003, #004, TOILET B, & TOILET D. REFER TO SPECIFICATIONS FOR PROTOCOL ON REMOVALS AND IMPACT ON NEW WORK SCOPE.

**NOTES:**  
MATERIALS IDENTIFIED ABOVE SHOULD BE CONSIDERED LEAD CONTAINING IN THE AREAS INDICATED AS WELL AS WHERE EVER THEY EXIST THROUGHOUT THE STRUCTURE.

DESIGNATED KEYNOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO PRE-CONSTRUCTION LEAD MATERIALS INSPECTION, SAMPLING REPORT, AND LEAD WORK SAFE PLAN SPECIFICATION 02090 FOR ABATEMENT PROCEDURES AND LEGAL REMOVAL AND DISPOSAL REQUIREMENTS. REFER TO ENVIRONMENTAL CONSULTANTS, REPORT FOR PROJECT # 21819, CONTAINED WITHIN THE PROJECT MANUAL, FOR LEAD-BASED PAINT INSPECTION DATA & APPENDIX C FOR LEAD XRF TEST RESULTS FOR PROJECT-SPECIFIC DATA.

**U.V. LOUVER LEGEND**

1. NEW CABINET HEATER BY M.C. G.C. TO CREATE NEW MASONRY OPENING FOR NEW +/- 12"x8" LOUVER. OPENING BY G.C. LOUVER BY M.C.
2. NEW CABINET HEATER BY M.C. G.C. TO CREATE NEW MASONRY OPENING FOR NEW +/- 8"x5" LOUVER. OPENING BY G.C. LOUVER BY M.C.
3. NEW U.V. BY M.C. G.C. TO CREATE NEW MASONRY OPENING FOR NEW +/- 48"x10" LOUVER. OPENING BY G.C. LOUVER BY M.C.
4. NEW U.V. BY M.C. G.C. TO CREATE NEW MASONRY OPENING FOR NEW +/- 34"x10" LOUVER. OPENING BY G.C. LOUVER BY M.C.
5. NEW EXHAUST FAN BY M.C. G.C. TO CREATE NEW MASONRY OPENING FOR NEW +/- 8" DIAMETER LOUVER. OPENING BY G.C. LOUVER BY M.C.

G.C. TO REMOVE AND REINSTALL EXISTING 2x4 ACOUSTIC CEILING TILE TO ALLOW FOR NEW PIPING WORK BY M.C. COORDINATE FINAL LOCATION WITH M.C.

LOCATION OF NEW U.V.'S/ CABINET HEATERS BY M.C. SEE FURTHER NOTES FOR LOUVER DETAILS.

**1 TYPICAL SHEET METAL DUCT PENETRATION DETAIL**

NOTE: EXISTING ROOF INSTALLATION

SCALE: N.T.S.

**2 SECTION DETAIL**

DEMOLITION

SCALE: 1" = 1'-0"

**3 SECTION DETAIL**

PROPOSED

SCALE: 1" = 1'-0"

FIRST FLOOR - DEMOLITION AND PROPOSED PLAN

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

REV.	DATE	ITEM

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**KEY PLAN**

NOT TO SCALE

**PROJECT**

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

**DWG TITLE**

OVERALL FIRST FLOOR  
DEMOLITION and PROPOSED PLANS

**DRAWING BY:** S.E.S.  
**CHECK BY:** J.W.W.

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**SED No:** 66-04-07-06-011-008

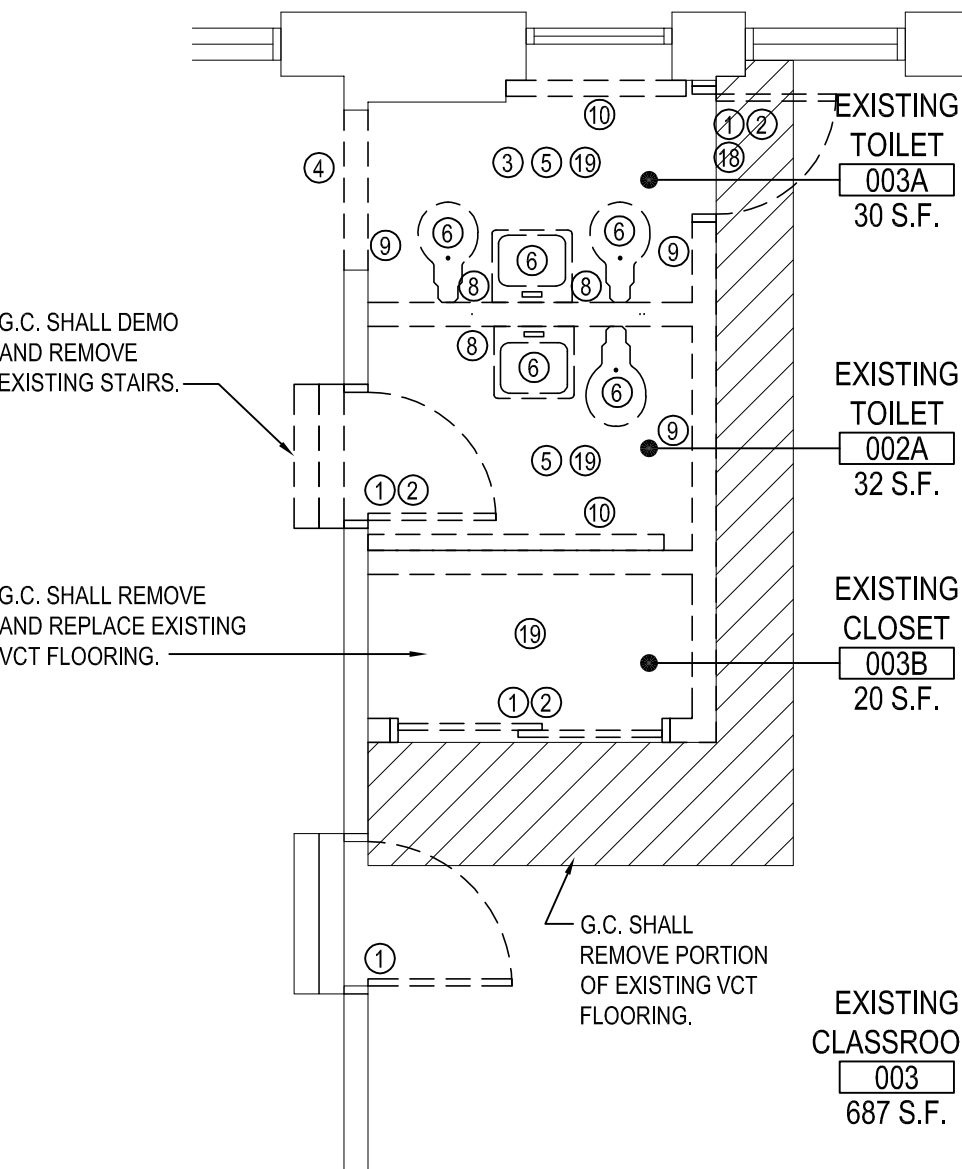
**DISTRICT:** GREENBURGH CSD

**PROJECT:** PH. I - DW CAP. IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

**DWG TITLE:** OVERALL FIRST FLOOR  
DEMOLITION and PROPOSED PLANS

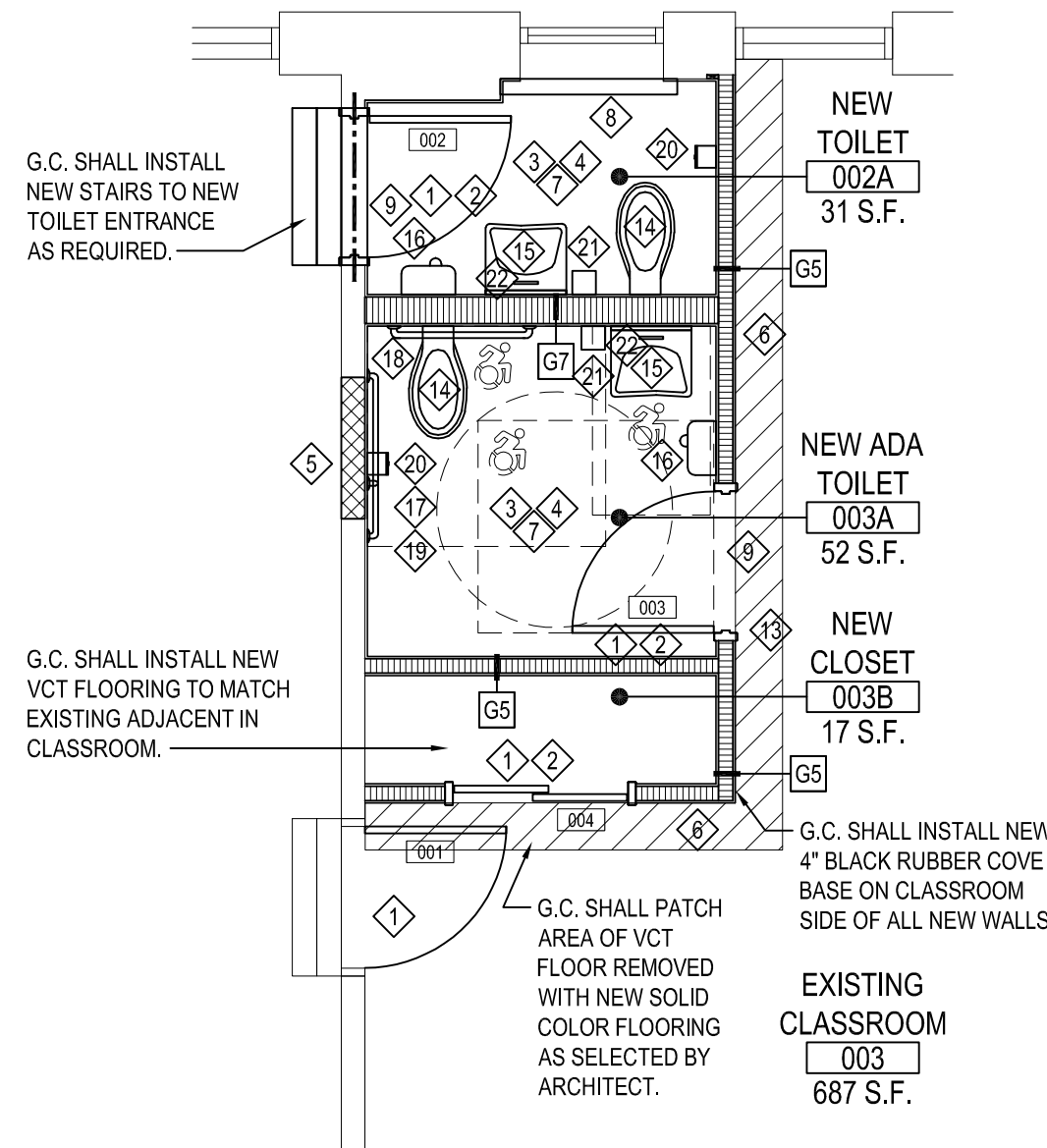
**SCALE:** AS NOTED  
**DATE:** MAY 2022  
**BID PICK-UP:** MAY 27, 2022  
**FILE No:** 21-292

**A1.01E**



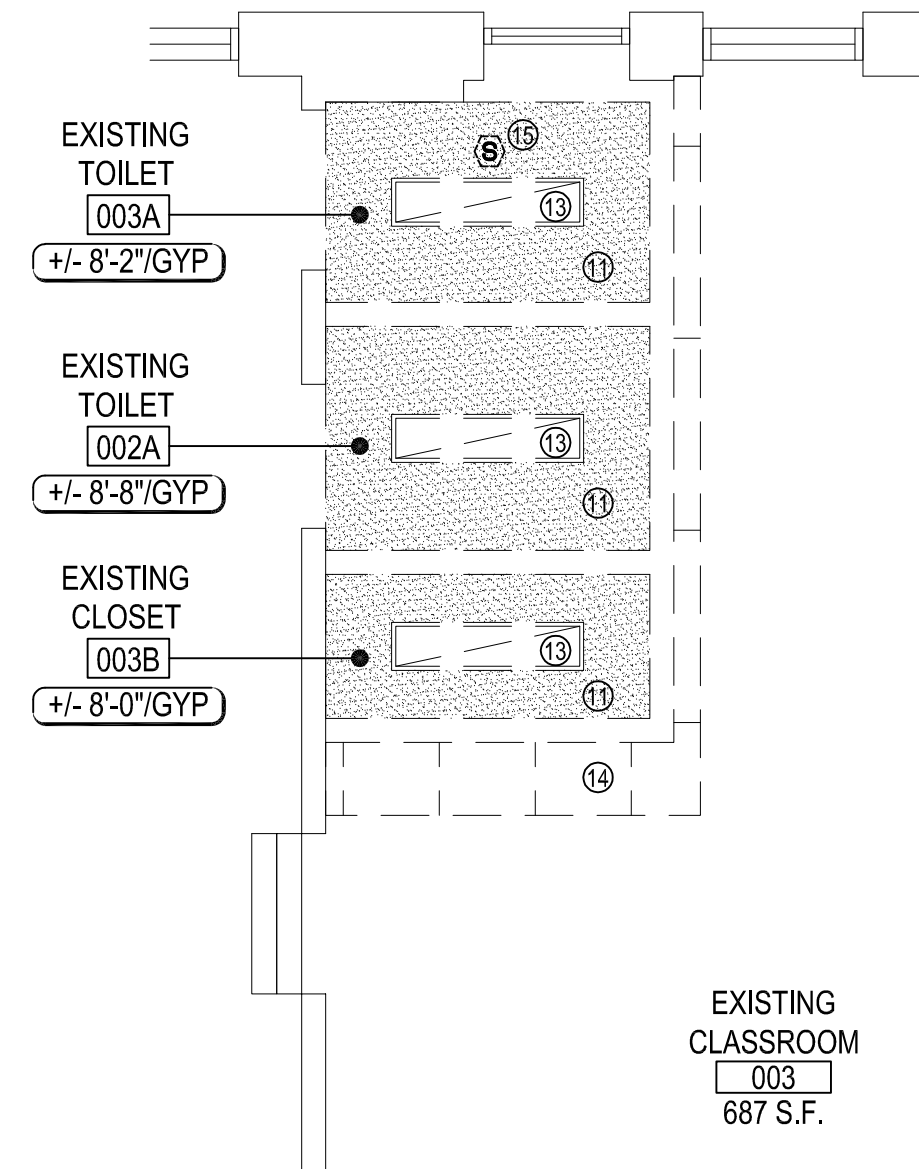
TOILET #002A & #003A - DEMOLITION PLAN

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



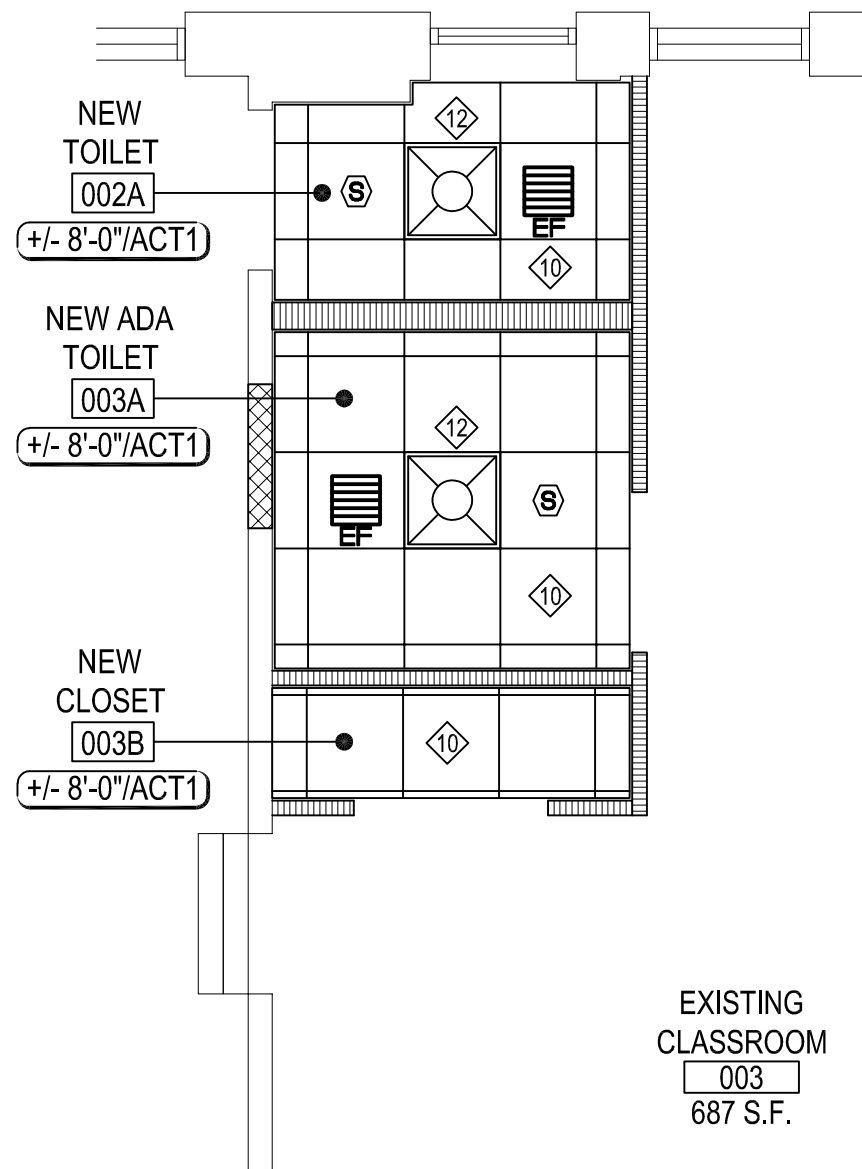
TOILET #002A & #003A - PROPOSED PLAN

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



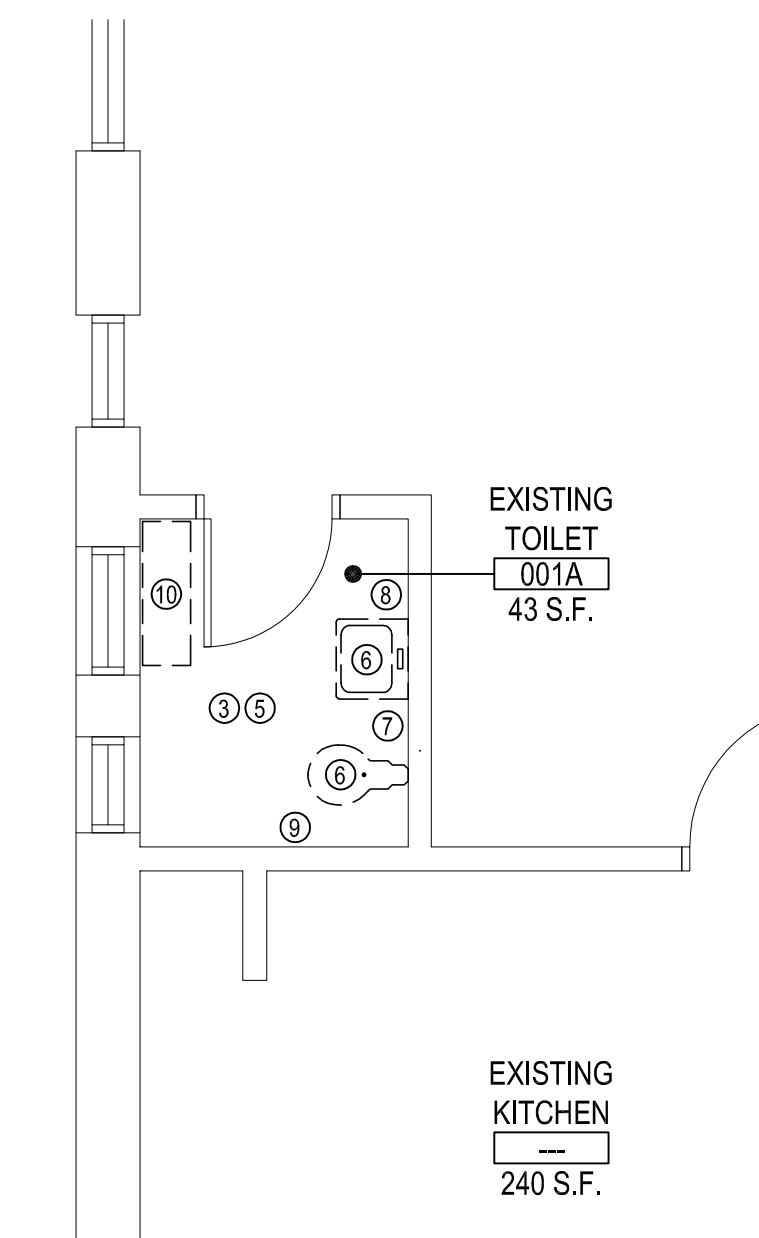
TOILET #002A & #003A - DEMOLITION RCP

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



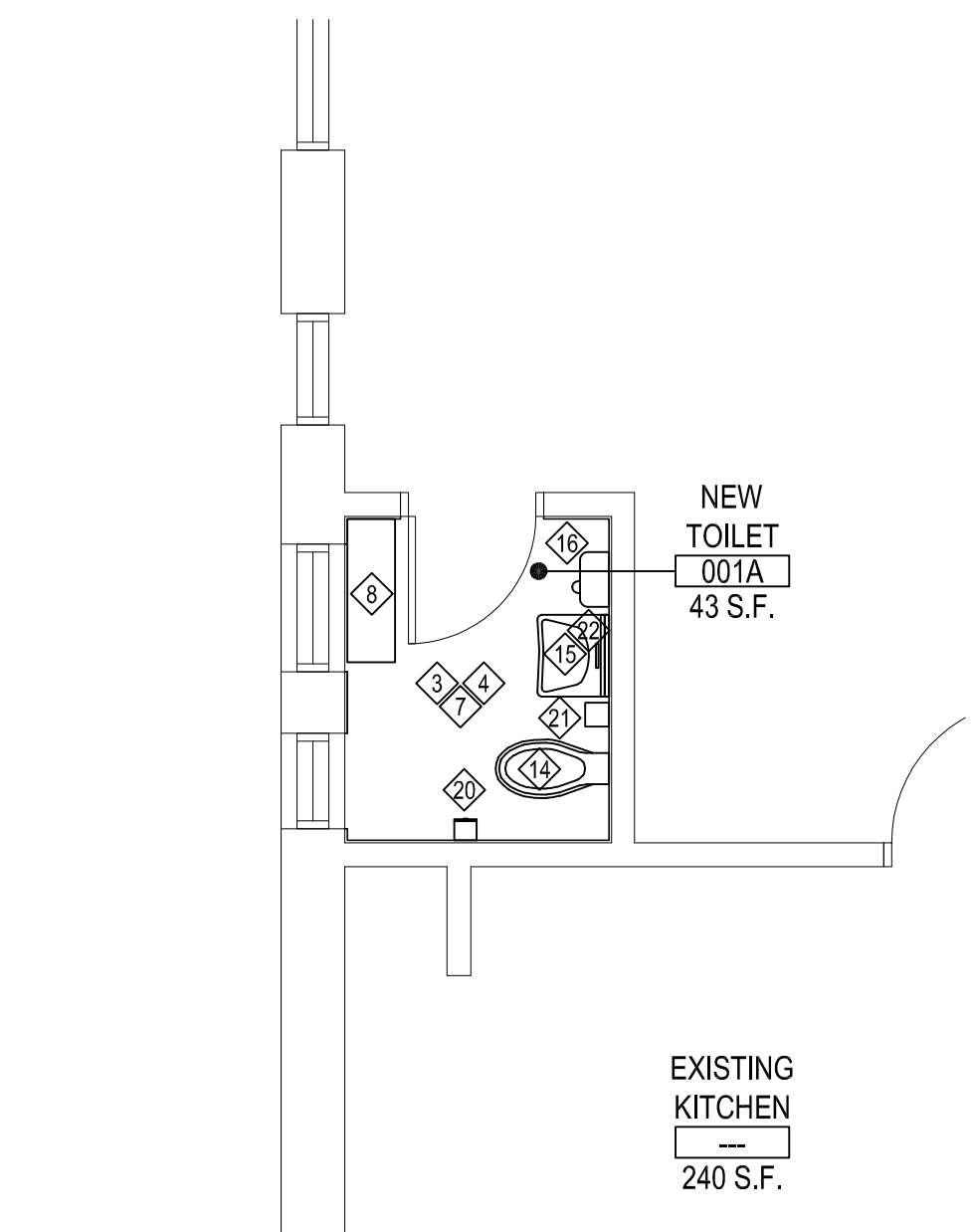
TOILET #002A & #003A - PROPOSED RCP

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



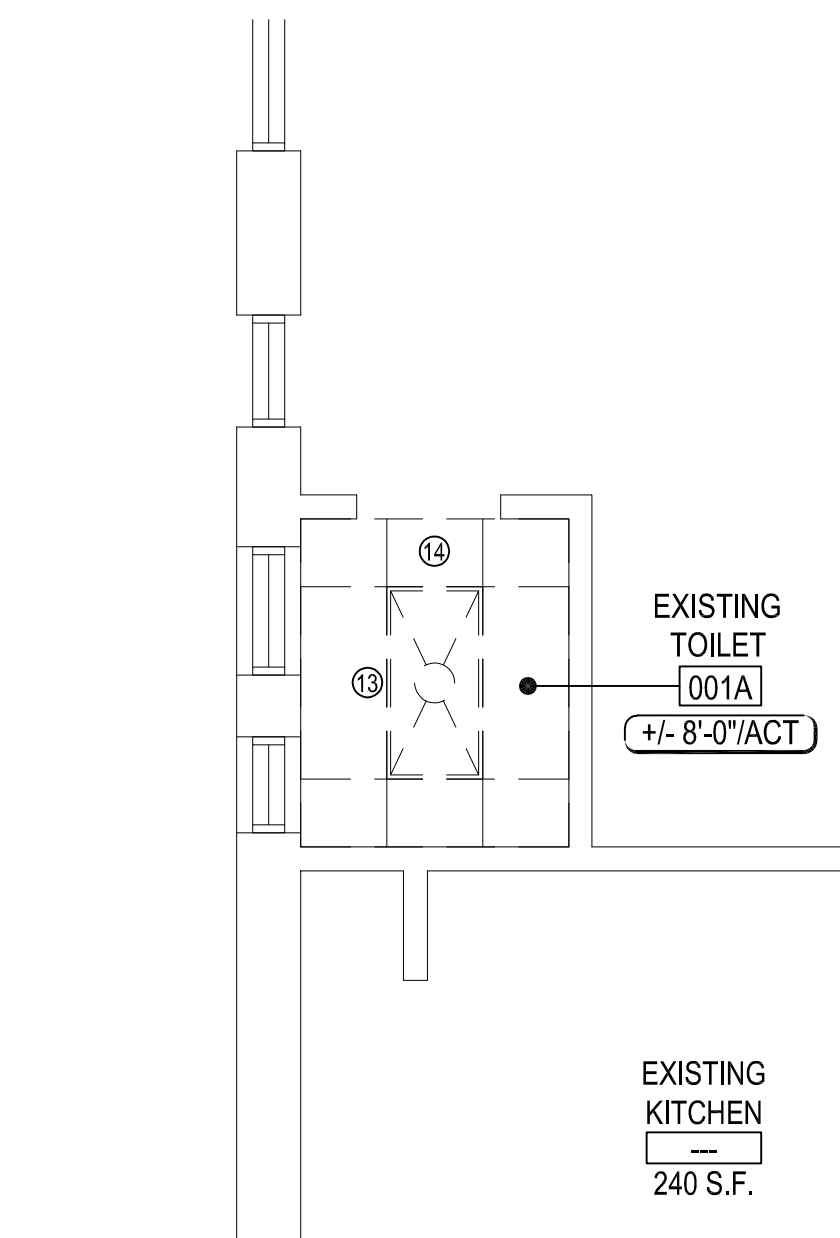
TOILET #001A - DEMOLITION PLAN

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



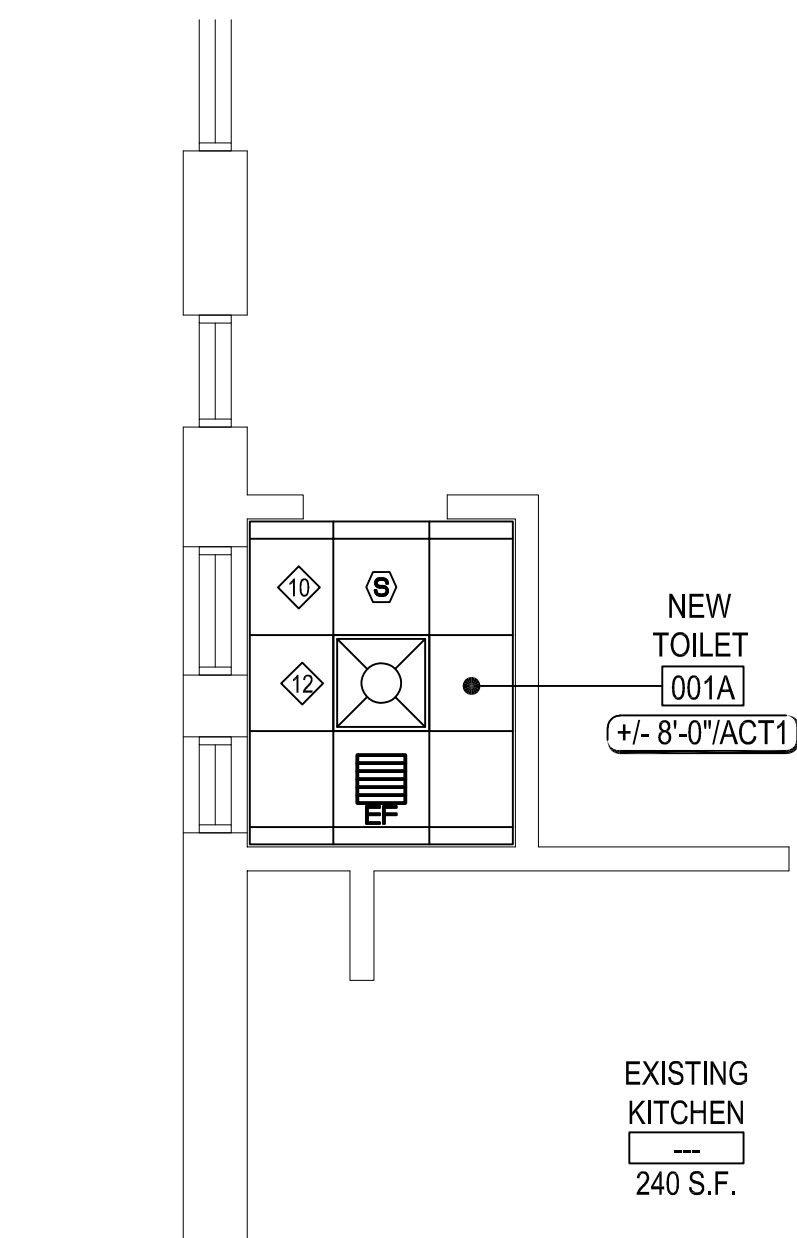
TOILET #001A - PROPOSED PLAN

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



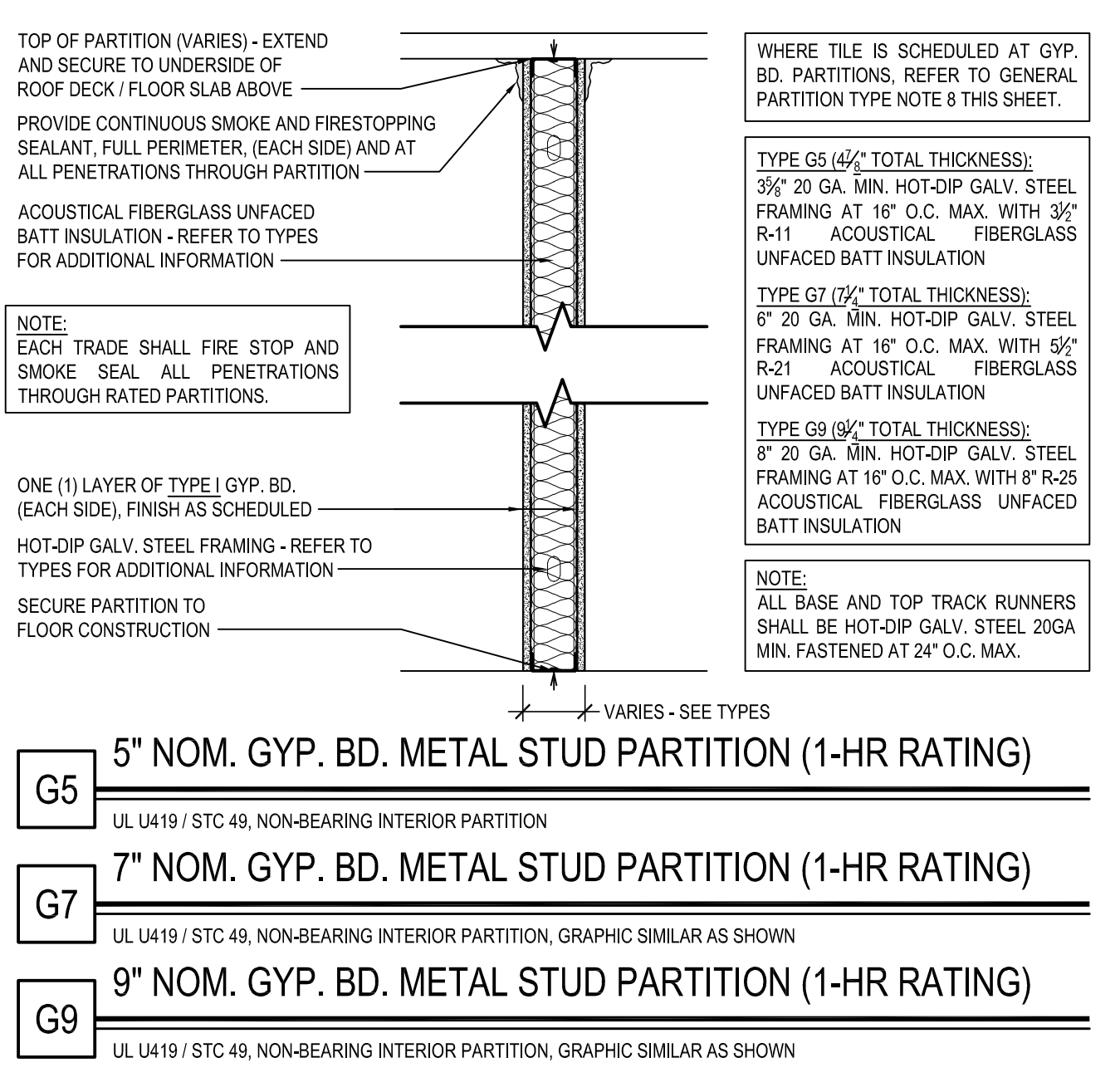
TOILET #001A - DEMOLITION RCP

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



TOILET #001A - PROPOSED RCP

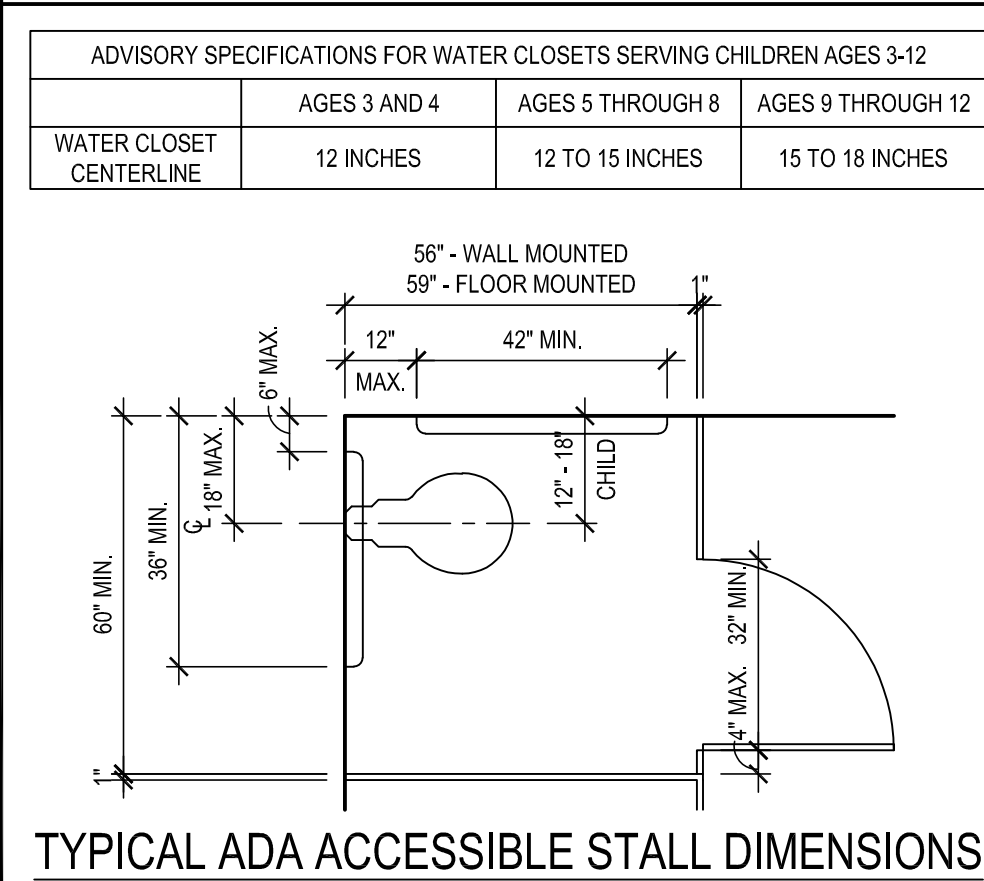
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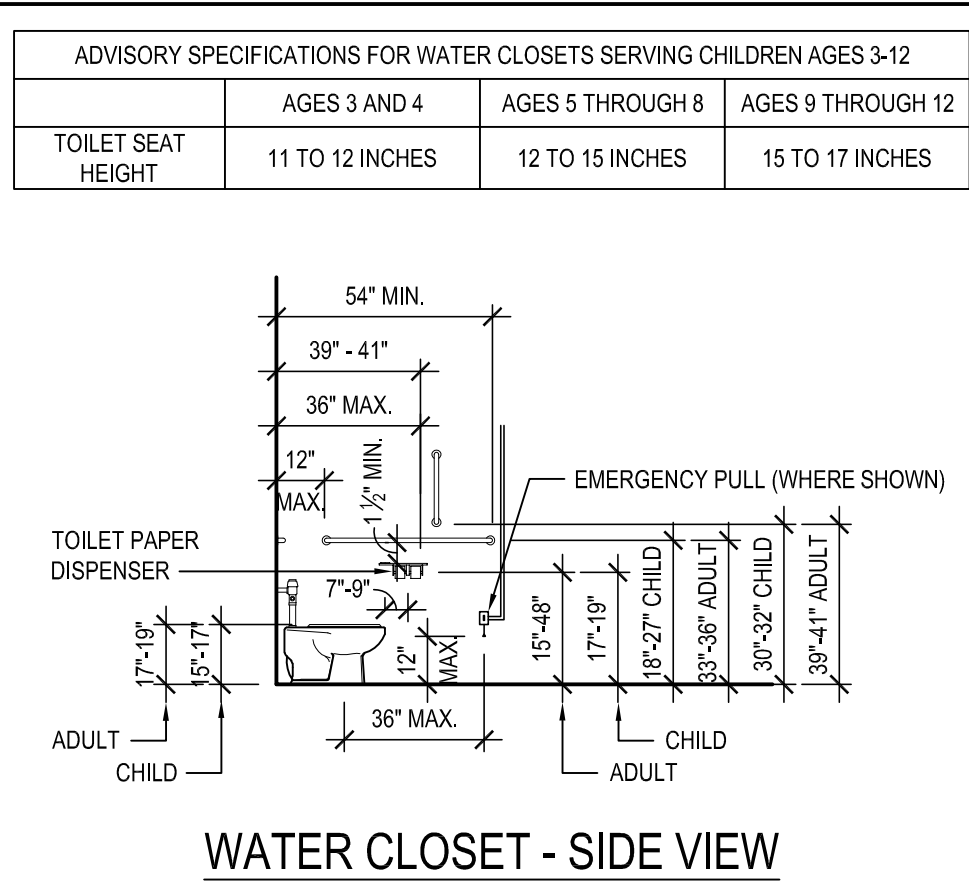
TOILET FIXTURE MOUNTING HEIGHTS

- AT ALL STUDENT OCCUPIED TOILET FACILITIES (i.e. CLASSROOM TOILET ROOMS), ALL TOILET FIXTURES, GRAB BARS, ACCESSORIES, ETC. SHALL BE MOUNTED AT THE "CHILD" HEIGHT RANGES AS INDICATED ON THE TYPICAL TOILET ROOM MOUNTING DETAILS.
- THE CHILD DIMENSIONS GIVEN APPLY FOR CHILDREN BETWEEN THE AGES OF 6 AND 12 YEARS. FOR KINDERGARTEN CHILDREN - THE BOTTOM END OF THE RANGES SHOULD BE USED AS A MAXIMUM.
- AT ALL ADULT USE TOILET FACILITIES, ALL TOILET FIXTURES, GRAB BARS, ACCESSORIES, ETC. SHALL BE MOUNTED AT THE "ADULT" HEIGHT RANGES AS INDICATED ON THE TYPICAL TOILET ROOM MOUNTING DETAILS.
- THE TOP HEIGHT OF ALL GRAB BAR MUST BE THE SAME WITHIN EACH STALL ROOM.
- THE CHILD MOUNTING HEIGHT LIMITS APPLY FOR ADA AND NON-ADA LOCATIONS.

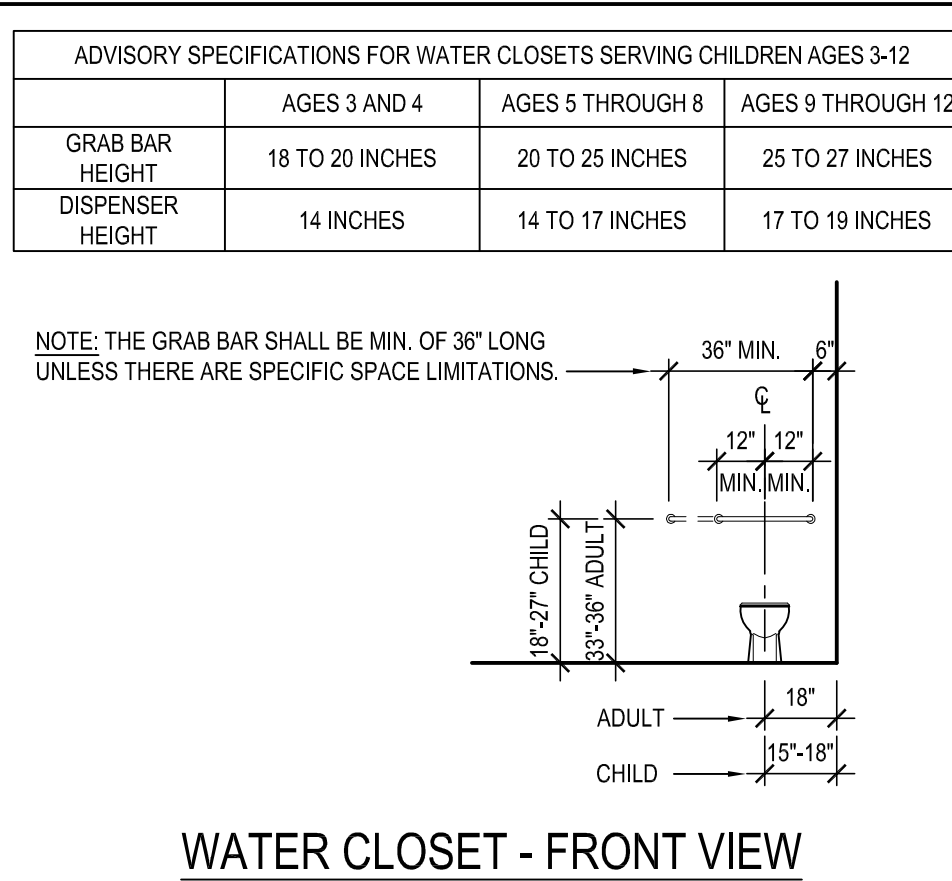
TYPICAL TOILET ROOM MOUNTING STANDARDS



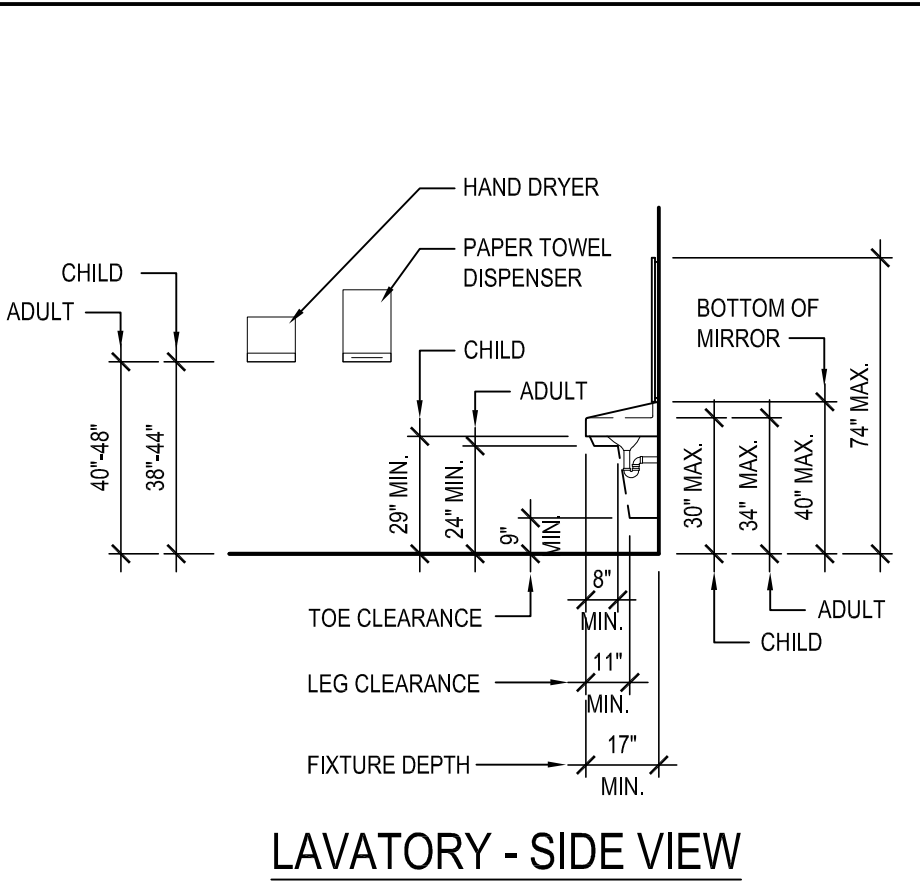
TYPICAL ADA ACCESSIBLE STALL DIMENSIONS



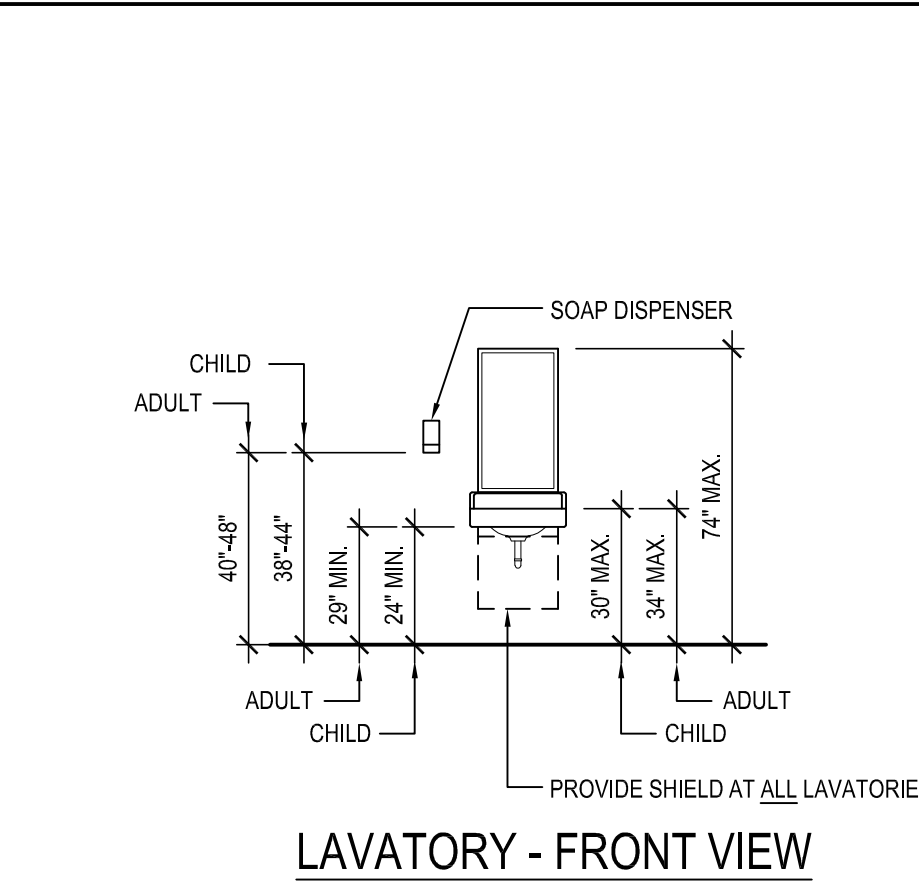
WATER CLOSET - SIDE VIEW



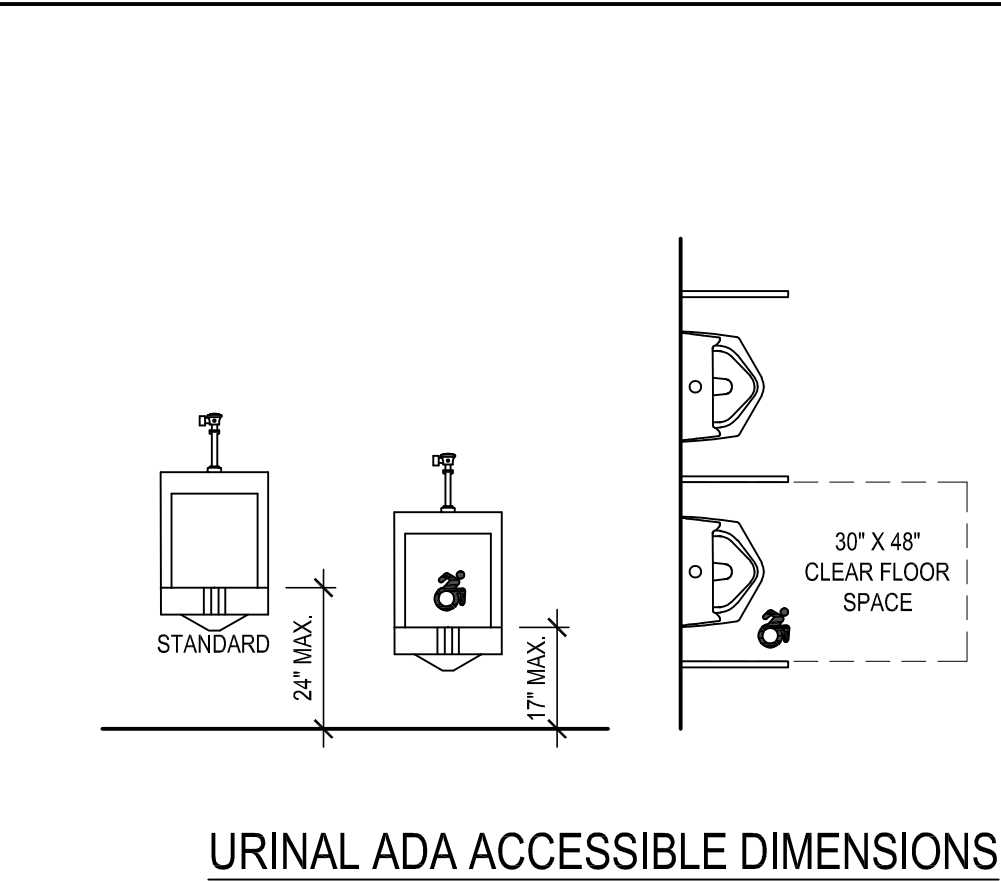
WATER CLOSET - FRONT VIEW



LAVATORY - SIDE VIEW



LAVATORY - FRONT VIEW



URINAL ADA ACCESSIBLE DIMENSIONS

## DEMOLITION AND REMOVAL KEYED NOTES:

- (ALL CONTRACTORS SHALL REFER TO ASBESTOS, LEAD AND PCB ABATEMENT PLANS AND ASSOCIATED TESTING REPORTS IN SPECIFICATIONS PRIOR TO ANY REMOVALS)
- G.C. SHALL REMOVE EXISTING DOOR AND HARDWARE. TURN OVER TO OWNER OR DISPOSE OF AS DIRECTED BY OWNER.
  - G.C. SHALL REMOVE EXISTING TOILET ROOM DOOR FRAME.
  - THROUGHOUT EXISTING TOILET ROOM - G.C. SHALL REMOVE AND DISPOSE OF EXISTING CERAMIC WALL TILE WANSOCT. IN LOCATIONS WHERE THE EXISTING WALLS ARE TO REMAIN AND RECEIVE NEW FINISHES, G.C. SHALL PATCH AND PREP EXISTING WALL BOARD PLASTER AND OR CMU SURFACES - READY TO RECEIVE NEW FINISHES.
  - G.C. SHALL REMOVE AND DISPOSE OF EXISTING MASONRY WALLS IN THEIR ENTIRETY. G.C. SHALL PATCH/REPAIR ADJACENT WALLS, CEILINGS, AND FLOORS TO MATCH EXISTING ADJACENT. IN LOCATIONS WHERE THERE IS EXISTING SECTION OF WALL ABOVE TO REMAIN OR THERE IS EXISTING STRUCTURE ABOVE THAT IS SUPPORTED BY THE REMOVED WALL BELOW - G.C. SHALL SHORE-UP AND TEMPORARILY SUPPORT EXISTING WALL/STRUCTURE ABOVE - G.C. SHALL PROVIDE AND INSTALL NEW STEEL LINTEL AT NEWWIDENED DOOR MOPS AND INSTALL NEW CMU WALL IN WIDTH AND COURSING TO MATCH EXISTING. REFER TO PROPOSED PLANS FOR ADDITIONAL INFORMATION.
  - THROUGHOUT EXISTING TOILET ROOM - EXISTING CERAMIC FLOOR TILE & BASE TO BE COMPLETELY REMOVED AND DISPOSED OF. PROVIDE NEW MUSET CERAMIC FLOOR TILE AND NEW INTEGRAL BASE. TYPICAL ENTIRE ROOM PROVIDE POSITIVE PITCH TO FLOOR DRAINS.
  - THROUGHOUT EXISTING TOILET ROOMS - G.C. SHALL REMOVE AND DISPOSE OF ALL EXISTING PLUMBING FIXTURES (SINKS, URINALS, WATER CLOSETS, FAUCETS, FLUSHOMETERS, ETC.) IN THEIR ENTIRETY. P.C. SHALL DISCONNECT, ADJUST/CUT BACK PLUMBING PIPING. G.C. TO COORDINATE WITH P.C. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - THROUGHOUT ALL EXISTING TOILET ROOMS - G.C. SHALL REMOVE PART OF EXISTING WET WALLS AS REQUIRED TO ALLOW PLUMBING CONTRACTOR TO MODIFY PLUMBING AND INSTALL NEW FIXTURE CARRIERS. G.C. TO COORDINATE WITH P.C. FOR LOCATIONS PRIOR TO DEMO. G.C. TO INFILL ALL OPENINGS AFTER P.C. HAS COMPLETED. INFILL OPENINGS WITH CMU TO MATCH EXISTING. TOOTHAN NEW MASONRY. G.C. TO TEMPORARILY SHORE OPENINGS AS REQUIRED.
  - THROUGHOUT EXISTING TOILET ROOM - G.C. TO REMOVE ALL EXISTING HAND SOAP DISPENSERS AND TURN OVER TO OWNER OR DISPOSE OF AS DIRECTED BY THE OWNER.
  - THROUGHOUT EXISTING TOILET ROOM - G.C. TO REMOVE ALL EXISTING TOILET PAPER DISPENSERS AND TURN OVER TO OWNER OR DISPOSE OF AS DIRECTED BY THE OWNER.
  - THROUGHOUT EXISTING TOILET ROOMS - EXISTING RADIATOR COVERS TO REMAIN. G.C. TO REMOVE PREP AND PAINT AND REINSTATE. COLOR BY ARCHITECT.
  - THROUGHOUT EXISTING TOILET ROOMS - G.C. TO REMOVE ALL EXISTING PLASTER CEILINGS IN THEIR ENTIRETY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - THROUGHOUT EXISTING TOILET ROOM - EXISTING CEILING VENTILATION GRILLES ARE TO BE REMOVED AND NEW ONES INSTALLED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - THROUGHOUT EXISTING TOILET ROOM - G.C. TO REMOVE ALL EXISTING SURFACE MOUNTED OR LAY-IN LIGHT FIXTURES AND TURN OVER TO OWNER OR DISPOSE OF AS DIRECTED BY THE OWNER. E.G. TO DISCONNECT PRIOR TO THEIR REMOVALS (REFER TO REFLECTED CEILING PLANS & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION).
  - THROUGHOUT EXISTING TOILET ROOMS - G.C. SHALL REMOVE AND DISPOSE OF ALL EXISTING CEILING GRID AND CEILING TILES. REFER TO REFLECTED CEILING PLANS & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - THROUGHOUT EXISTING TOILET ROOMS - EXISTING CEILING MOUNTED ELECTRICAL DEVICES (SMOKE DETECTORS, OCCUPANCY SENSORS, VAPE SENSORS, FIRE ALARM DEVICES, ETC. ARE TO BE REMOVED AND REPLACED WITH NEW REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - EXISTING THERMOSTAT TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - EXISTING FLOOR DRAIN TO REMAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - THROUGHOUT EXISTING TOILET ROOMS - G.C. TO REMOVE EXISTING MARBLE DOOR SADDLES AND REPLACE WITH NEW. REFER TO TOILET ROOM FINISHED FLOOR PLANS FOR ADDITIONAL INFORMATION.
  - PRIOR TO COMMENCEMENT OF WORK, THE OWNER SHALL REMOVE ALL FREE STANDING SHELVING/ EQUIPMENT/ ETC.

## DEMOLITION and REMOVAL NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C. AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR. NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND/ OR RECONSTRUCTION.
- ALL OPENINGS IN EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE PATCHED AS REQUIRED AND MASONRY TOOTHED-IN TO MATCH ADJACENT.
- G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
- G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C. OR E.C. PRIOR TO COMMENCEMENT.
- NOTED WALL REMOVALS SHALL INCLUDE ALL DOORS, WINDOWS AND FRAMES WHERE SHOWN.

## FLUORESCENT BULB NOTE

ALL EXISTING FLUORESCENT BULBS TO BE REMOVED SHALL BE CONSIDERED HAZARDOUS WASTE AND SHOULD BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) & UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) RULES, REGULATIONS & GUIDELINES.

## PORCELAIN / CERAMIC TILE TYPES

FLOORS:	
TYPE PFT1:	12" x 12" GLAZED PORCELAIN FLOOR TILE BY DALTILE STYLE: HARMONIST COLOR: TO BE SELECTED BY ARCHITECT
WALLS:	
TYPE CW1T:	6" x 6" CERAMIC WALL TILE BY DALTILE STYLE: COLOR WHEEL-CLASSIC COLOR: TO BE SELECTED BY ARCHITECT (TOILET WALL FIELD TILE)
TYPE CW1A:	6" ACCENT BAND 1" x 1" AMERICAN CLEAN COLOR APPEAL GLASS MOSAICS COLOR: TO BE SELECTED BY ARCHITECT (TOILET WALL ACCENT TILE)
TYPE CW1B:	6" ACCENT BAND 1" x 1" AMERICAN CLEAN COLOR APPEAL GLASS MOSAICS COLOR: TO BE SELECTED BY ARCHITECT (TOILET WALL ACCENT TILE)
CERAMIC COVE BASE:	
TYPE CTCB1:	6" x 6" CERAMIC TILE FLAT TOP COVE BASE BY DALTILE STYLE: SEMI GLOSS A3601 COLOR: TO BE SELECTED BY ARCHITECT (TOILET COVE BASE)

## NOTES

- GENERAL CONTRACTOR SHALL PATCH ALL AREAS OF FLOOR DAMAGED BY THE REMOVAL OF MASTIC.
- GENERAL CONTRACTOR SHALL FLASH PATCH ALL FLOORS IN THEIR ENTIRETY WHERE MASTIC REMOVAL HAS OCCURRED WITH (PLAN/PATCH PLUS) BY MAPEI OR ARCHITECT APPROVED EQUAL.
- GENERAL CONTRACTOR SHALL PERFORM A BOND TEST IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. PRIOR TO INSTALLATION OF NEW FLOORING.
- PROVIDE NEW MARBLE SADDLE AT ALL TOILET ROOM DOORS. PROVIDE BEVELED SADDLE TO MEET ADA REQUIREMENTS.
- ALL NEW V.C.T. FLOORING TO BE INSTALLED THROUGHOUT ENTIRE FLOOR AREA AS SHOWN UNLESS OTHERWISE NOTED.

## CEILING NOTE:

ALL TOILET ROOM CEILINGS ARE TO BE SIMILAR OR EQUAL TO ARMSTRONG #1445 ULTIMA HEALTH ZONE HIGH NRC CEILING TILE. THIS TILE IS TREATED WITH HUNGUARD PLUS FOR DURABILITY, WORKABILITY AND WATER-RESISTANCE. THE TILE CARRIES A 30-YEAR WARRANTY AGAINST SAG, MOLD, MILDEW AND GROWTH.

## REFLECTED CEILING NOTES:

- CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND/OR ELECTRICAL CEILING ITEMS, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CEILING GRID SHALL BE ARRANGED TO BE SPACED EQUALLY IN EACH DIRECTION W/ NO TILE LESS THAN 6" UNLESS OTHERWISE REQUIRED.
- UNLESS OTHERWISE NOTED, ALL SOFFITS AND WINDOW POCKETS SHALL BE TYPE-X GYP. BD. OVER 18GA. COLD FORMED FRAMING AT 16" O.C.. REFER TO TYPICAL DETAILS.
- ALL AREAS NOTED AS 'OPEN' AND/OR 'NO CEILING (CLG)' SHALL BE PAINTED. (INCLUDING DECK, STRUCTURE, DUCTWORK, ETC.)
- REFER TO CEILING TYPES NOTES FOR ADDITIONAL INFORMATION.

## CEILING TYPES

TYPE ACT1: ACOUSTIC CEILING TILE BY "ARMSTRONG"  
SIZE: 24" X 24" X 7/8", NRC RATING .80  
STYLE: #1445 ULTIMA HEALTH ZONE HIGH NRC, SQUARE LAY IN (TOILET ROOMS)  
CEILING GRID BY "ARMSTRONG", 1516P PRELUDE, U.O.N.  
NOTE: ALL CEILING TILE & GRID TO BE WHITE UNLESS OTHERWISE NOTED.

REV.	DATE	ITEM

NOTICE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PROVIDED BY BAA ARCHITECTS. LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY HAVE NOT HAD BEEN RULED AND DETAIL PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.

KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DEMOLITION and PROPOSED PLANS  
TOILET ROOM RENOVATIONS

PROJECT

DWG TITLE

DRAWING BY: S.E.S.  
CHECK BY: J.W.W.

NOTICE

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BBS  
ARCHITECTS  
LANDSCAPE ARCHITECTS  
ENGINEERS

244 EAST MAIN STREET  
PATCHOGUE  
NEW YORK 11772  
T. 631.475.0349  
F. 631.475.0361

187 WOLF ROAD, STE. 205  
ALBANY  
NEW YORK 12205  
T. 518.621.7650  
F. 518.621.7655

www.bbsarchitects.com

SED No: 66-04-07-06-0-01-008

DISTRICT: GREENBURGH CSD

PROJECT: PH. I - DW. CAP. IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

DWG TITLE: DEMO & PROPOSED  
PLANS & NOTES

SCALE: AS NOTED

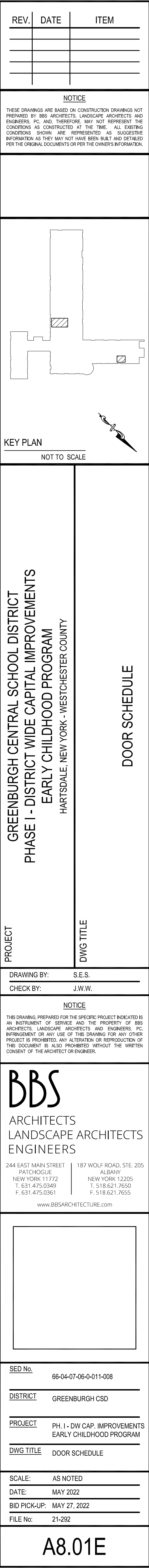
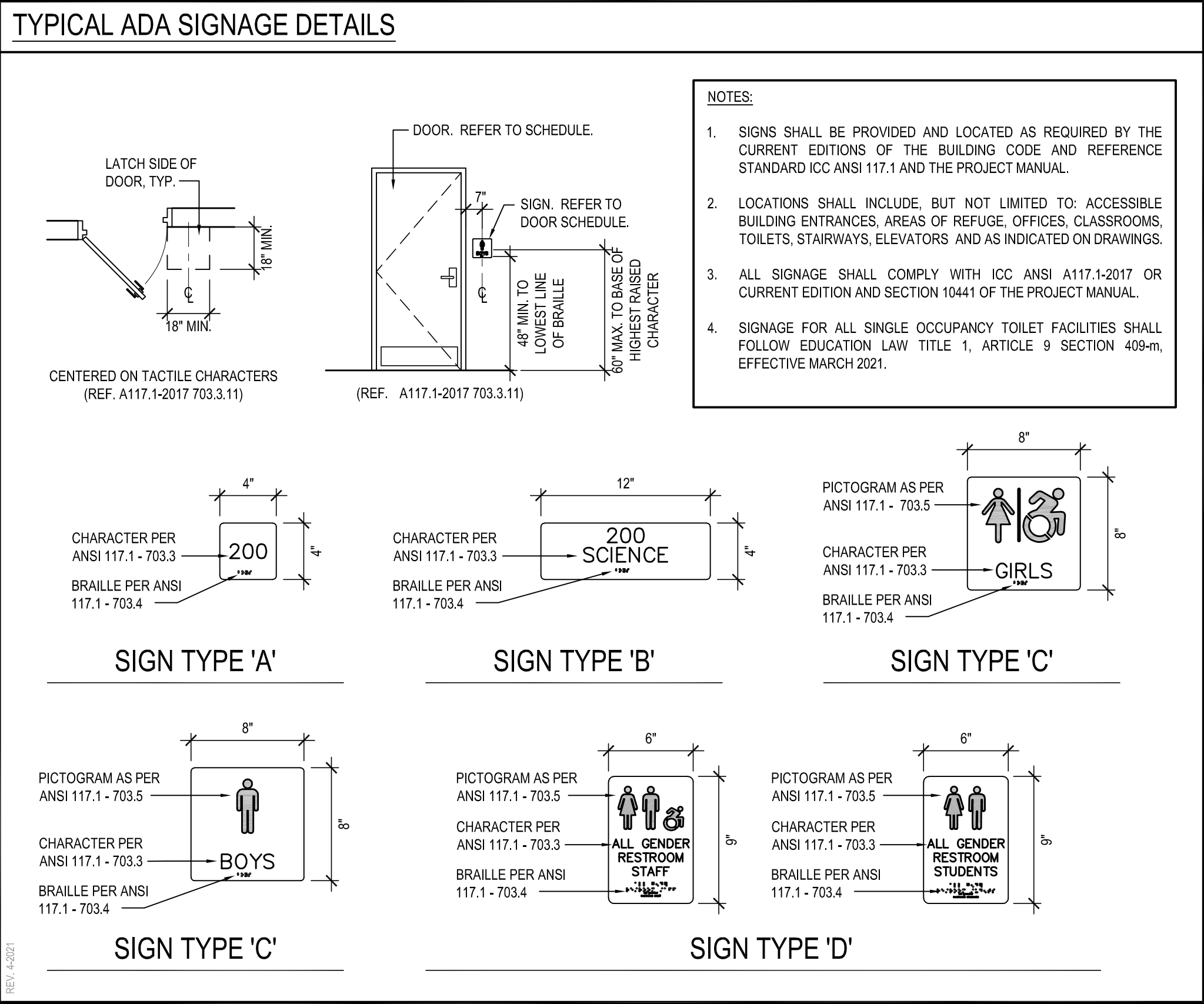
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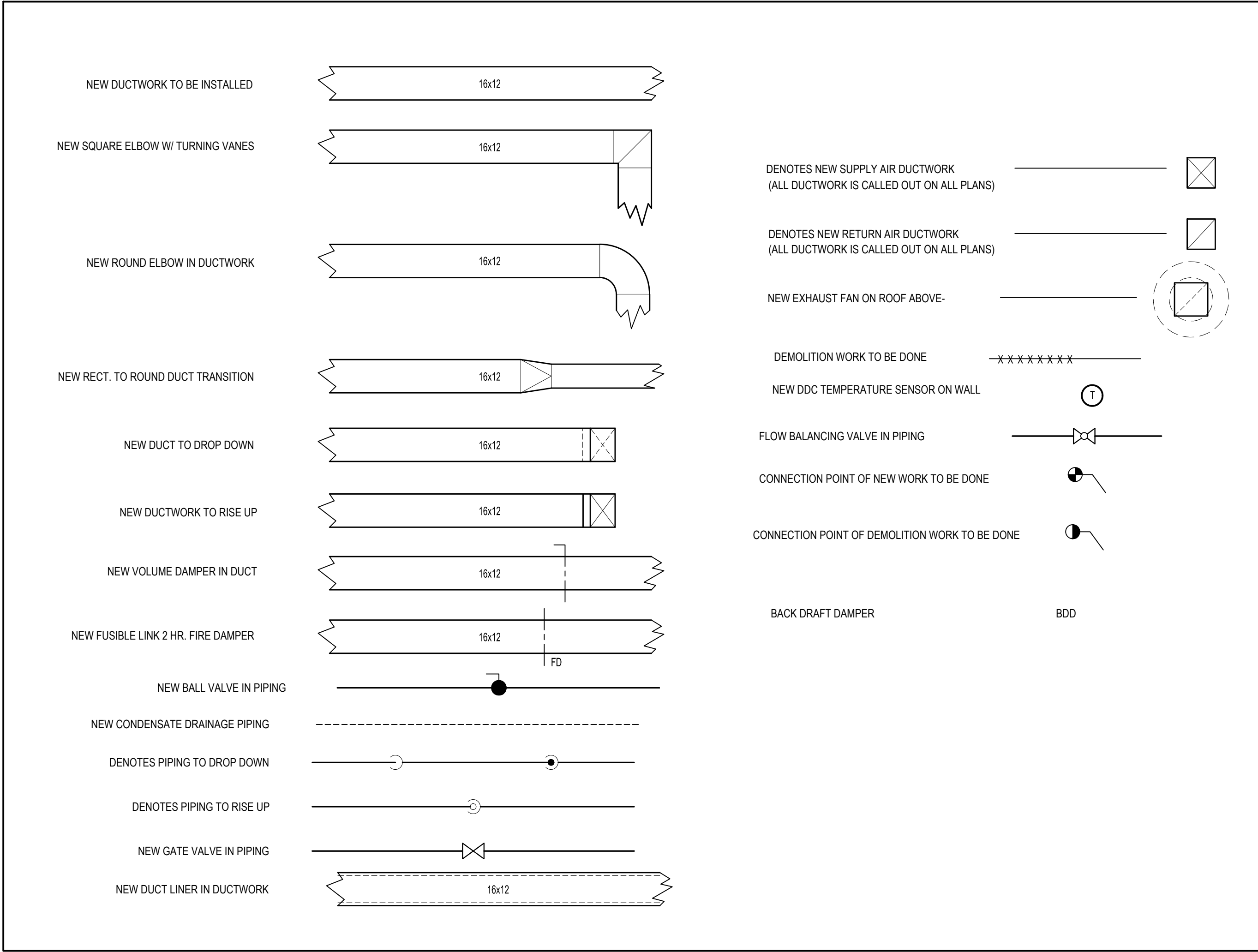
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ABBREVIATION LEGEND			
ALUM.	ALUMINUM	S.F.	SECURITY FILM
S.C.L.C.O.V.	SOLID COMPOSITE LUMBER CORE OAK VENEER	SG-1	1/2" SHOOTER ATTACK GLAZING
M.C.O.V.	MINERAL CORE OAK VENEER	SG-2	1" INSULATED SHOOTER ATTACK GLAZING
S.C.L.C.M.V.	SOLID COMPOSITE LUMBER CORE MAPLE VENEER	SG-3	20 MIN. RATED SHOOTER ATTACK GLAZING
M.C.M.V.	MINERAL CORE MAPLE VENEER	SG-4	45 MIN. RATED SHOOTER ATTACK GLAZING
F.R.P.	FIBERGLASS REINFORCED POLYESTER	SG-5	60 MIN. SHOOTER ATTACK GLAZING
H.M.	HOLLOW METAL	SG-6	90 MIN. SHOOTER ATTACK GLAZING
F.G.	1/2" FIREGLASS 20	BRG-1	LEVEL 1 BULLET RESISTANT GLAZING
F.L.P.	1/2" FIRE-LITE PLUS	BRG-2	LEVEL 2 BULLET RESISTANT GLAZING
PYRO	PYROSTOP GLAZING	BRG-3	LEVEL 3 BULLET RESISTANT GLAZING
INSUL.	1" INSULATED GLAZING	SGP-1	LEVEL 1 BULLET RESISTANT SECURITY PANEL
S.L.	1/2" SAFETY LAMINATED GLAZING	SGP-2	LEVEL 2 BULLET RESISTANT SECURITY PANEL
OBSC.	OBSCURE GLAZING	SGP-3	LEVEL 3 BULLET RESISTANT SECURITY PANEL
U.O.N.	UNLESS OTHERWISE NOTED		



MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS



CONTRACTOR ABBREVIATIONS:

M.C. = MECHANICAL CONTRACTOR

C.C. = CONTROLS CONTRACTOR

R.C. = CERTIFIED ROOFING CONTRACTOR

P.C. = PLUMBING CONTRACTOR

E.C. = ELECTRICAL CONTRACTOR

VENTILATION SCHEDULE

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	OAI (CFM) Supplied
.001	Classroom (ages 5-8)	25	10	0.12	0	746	19	280	0.9	312	320
.002	Classroom (ages 5-8)	25	10	0.12	0	746	19	280	0.9	312	320
.003	Classroom (ages 5-8)	25	10	0.12	0	674	17	251	0.9	279	280
.004	Classroom (ages 5-8)	25	10	0.12	0	599	15	222	0.9	247	250
.002A	Classroom (ages 5-8)	25	10	0.12	0	155	4	59	0.9	66	70
.002B	Classroom (ages 5-8)	25	10	0.12	0	151	4	59	0.9	66	70
Office-.001	Office space	5	5	0.06	0	165	1	15	0.8	19	30
Office-.002	Office space	5	5	0.06	0	230	2	24	0.8	30	30
Nurse Office	Office space	5	5	0.06	0	152	1	15	0.8	19	30

GENERAL NOTES

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

FIRE STOPPING NOTES

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

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
  - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
  - AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
  - AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
  - AT SUCTION & DISCHARGE OF EACH PUMP.
  - FOR EACH MAKEUP WATER LINE.
  - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
  - AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
  - AT ALL EXPANSION / COMPRESSION TANKS.

PIPING SYSTEMS AND EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" RH-VENT OR EQUIVALENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIN VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIN VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

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

DUCTWORK NOTES

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 01891, AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIUS, THEN RADIUS ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUS ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNITS. IN ADDITION, LINE IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREEVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

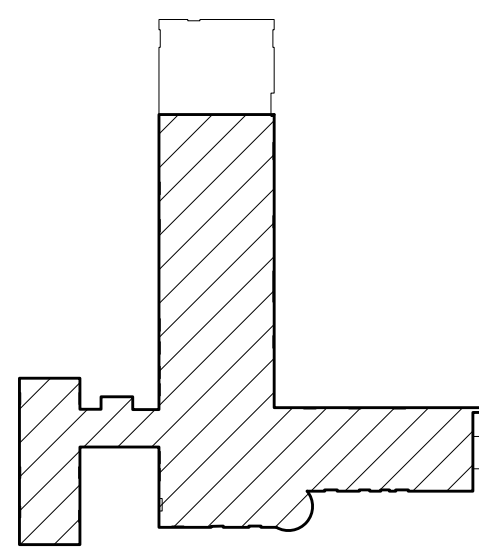
TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
MECHANICAL GENERAL NOTES, SYMBOLS AND LEGEND

DRAWING BY: DS  
CHECK BY: DS

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PATCHOGUE | ALBANY  
NEW YORK 11772 | NEW YORK 12205  
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F. 631.475.0361 | F. 518.621.7655

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SED No: 66-04-07-06-01-008

DISTRICT: GREENBURGH CSD

PROJECT: PH I - DW CAP. IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

DWG TITLE: MECHANICAL GENERAL NOTES,  
SYMBOLS AND LEGEND

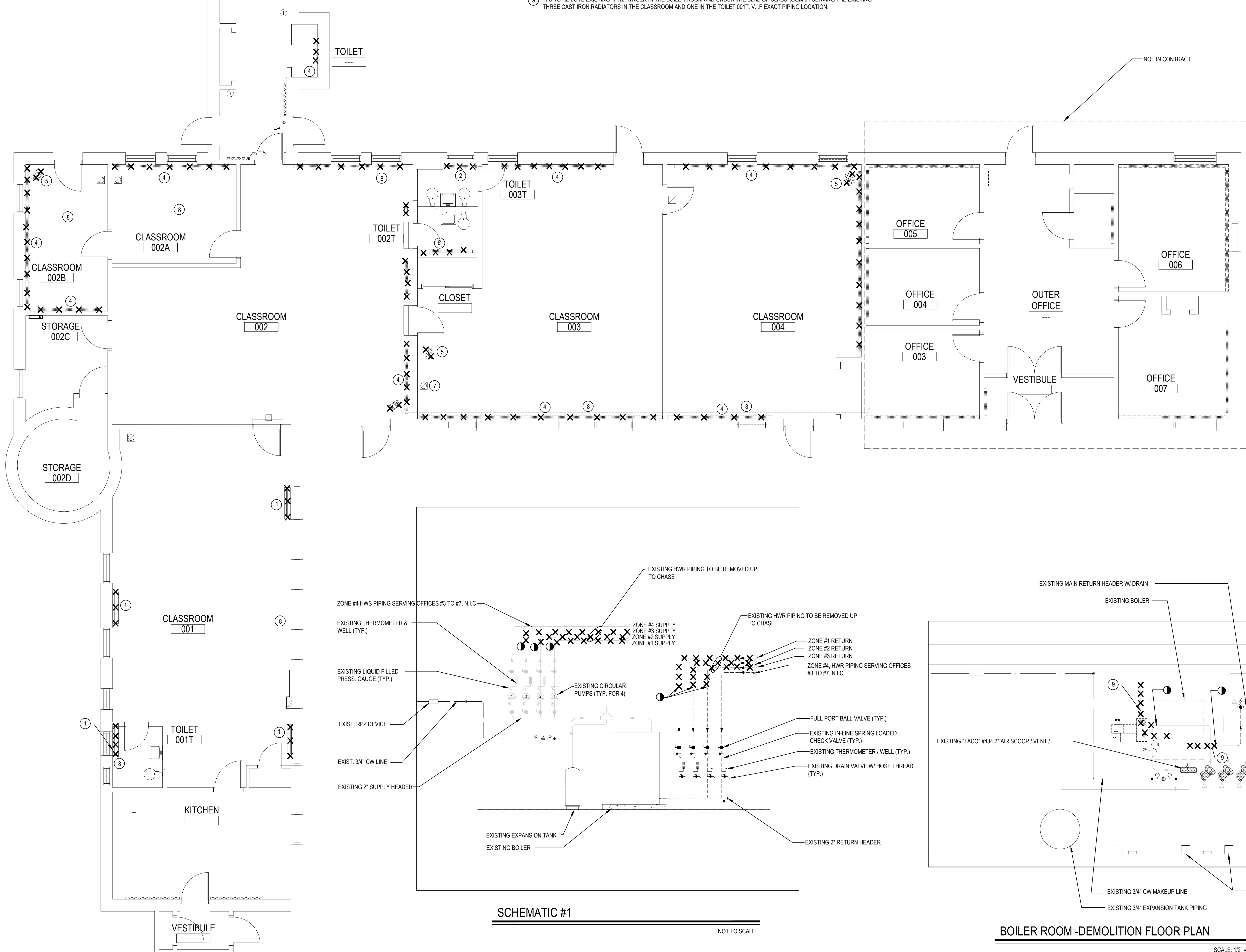
SCALE: AS NOTED

DATE: MAY 2022

BID PICK-UP: MAY 27, 2022

FILE No: 21-292

M0.01E OF ---



MECHANICAL DEMOLITION 1ST FLOOR PLAN

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

## EXISTING ZONES

1. ZONE #1: EXISTING PUMP, P-1, TACO #0034a ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE#1 (CLASSROOM #0014) TOILET TO REMAIN (V.I.F.)
2. ZONE #2: EXISTING PUMP, P-2, TACO #0034a ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #2 (CLASSROOM #002, #002A AND 002B) TO REMAIN (V.I.F.)
3. ZONE #3: EXISTING PUMP, P-3, TACO #0034a ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #3 (CLASSROOM #3, 4A AND 1020S) TO REMAIN (V.I.F.)
4. ZONE #4: EXISTING PUMP, P-4, TACO #0026g ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #4 (OFFICES #003 THRU #007) TO REMAIN (V.I.F.) (NOT PART OF THE CONTRACT)

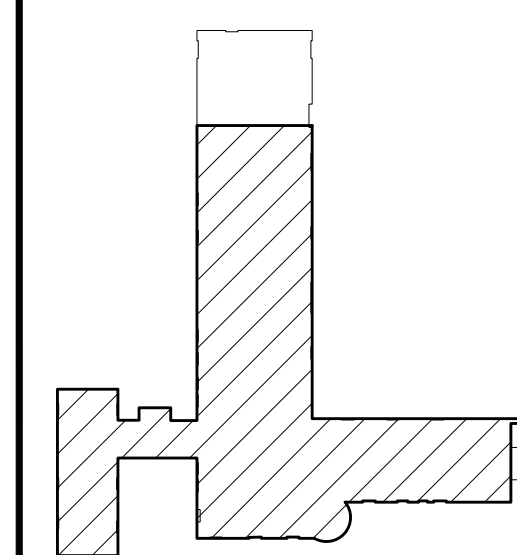
BOILER ROOM -DEMOLITION FLOOR PLAN

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

REV.	DATE	ITEM

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## KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

MECHANICAL DEMOLITION 1ST FLOOR PLAN

DRAWING BY:	DS
CHECK BY:	DS

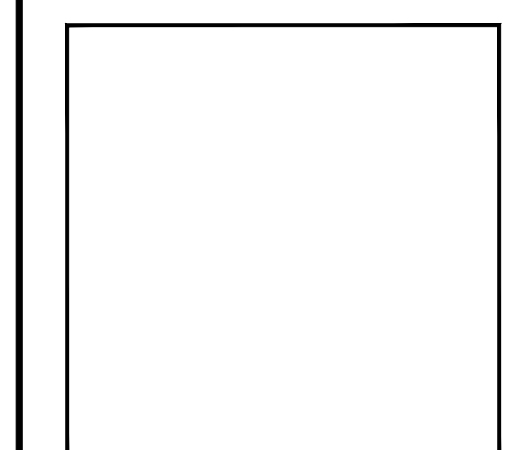
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DISTRICT GREENBURGH CSD

PROJECT	PH. I - DW CAP. IMPROVEMENTS EARLY CHILDHOOD PROGRAM
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DWG TITLE	MECHANICAL DEMOLITION 1ST FLOOR PLAN
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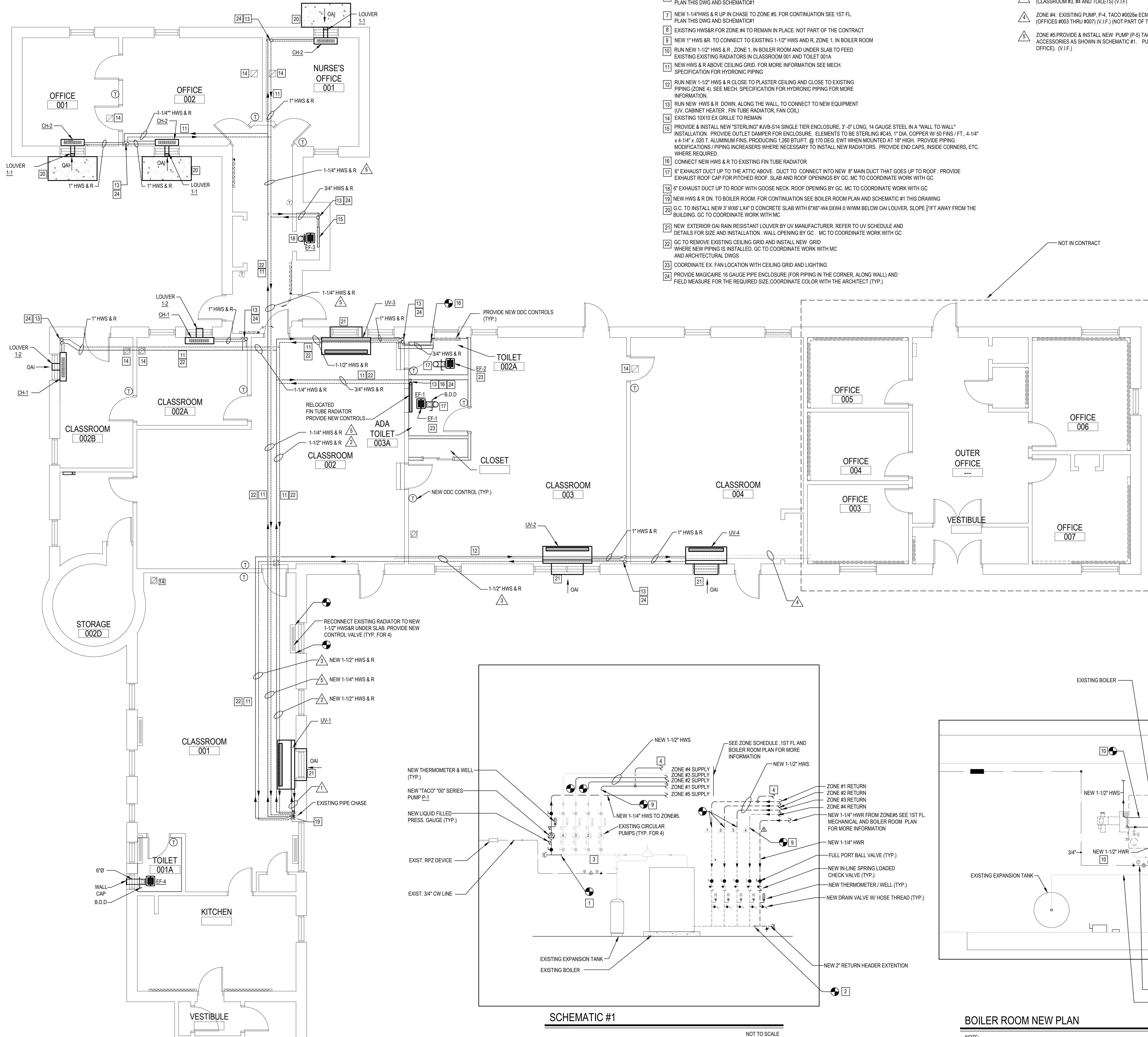
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M1.01E	OF - - -
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- NOTES:
- 1 M.C. SHALL EXTEND EXISTING 2" HWS HEADER PIPING (V.I.F. SIZE) AS SHOWN TO ACCOMMODATE ADDITIONAL 1-1/4" SUPPLY LINE
  - 2 M.C. SHALL EXTEND EXISTING HWR HEADER PIPING (V.I.F. SIZE) AS SHOWN TO ACCOMMODATE ADDITIONAL 1-1/4" RETURN LINE
  - 3 EXISTING HW SUPPLY HEADER PIPING (V.I.F. SIZE)
  - 4 NEW 1"HWS & R UP IN CHASE TO 1ST FL TO CONNECT TO NEW UV-1. FOR CONTINUATION SEE 1ST FL PLAN THIS DWG. AND SCHEMATIC #1/ZONEN#1
  - 5 NEW 1-1/2"HWS & R UP IN CHASE TO ZONE #2. FOR CONTINUATION SEE 1ST FL. PLAN THIS DWG. AND SCHEMATIC#1
  - 6 NEW 1-1/2"HWS & R UP IN CHASE TO ZONE #3. FOR CONTINUATION SEE 1ST FL. PLAN THIS DWG. AND SCHEMATIC#1
  - 7 NEW 1-1/4"HWS & R UP IN CHASE TO ZONE #5. FOR CONTINUATION SEE 1ST FL. PLAN THIS DWG. AND SCHEMATIC#1
  - 8 EXISTING HWS&R FOR ZONE #4 TO REMAIN IN PLACE. NOT PART OF THE CONTRACT
  - 9 NEW 1" HWS & R TO CONNECT TO EXISTING 1-1/2" HWS AND R, ZONE 1, IN BOILER ROOM
  - 10 RUN NEW 1-1/2" HWS & R, ZONE 1, IN BOILER ROOM AND UNDER SLAB TO FEED EXISTING EXISTING RADIATORS IN CLASSROOM 001 AND TOILET 001A
  - 11 NEW HWS & R ABOVE CEILING GRID. FOR MORE INFORMATION SEE MECH. SPECIFICATION FOR HYDRONIC PIPING
  - 12 RUN NEW 1-1/2" HWS & R CLOSE TO PLASTER CEILING AND CLOSE TO EXISTING PIPING (ZONE 4). SEE MECH. SPECIFICATION FOR HYDRONIC PIPING FOR MORE INFORMATION.
  - 13 RUN NEW HWS & R DOWN, ALONG THE WALL, TO CONNECT TO NEW EQUIPMENT (UV, CABINET HEATER, FIN TUBE RADIATOR, FAN COIL)
  - 14 EXISTING 10X10 EX GRILLE TO REMAIN
  - 15 PROVIDE & INSTALL NEW "STERLING" #JVB-S14 SINGLE TIER ENCLOSURE, 3'-0" LONG, 14 GAUGE STEEL IN A "WALL TO WALL" INSTALLATION. PROVIDE OUTLET DAMPER FOR ENCLOSURE. ELEMENTS TO BE STERLING #C45, 1" DIA. COPPER W/ 50 FINS / FT., 4-1/4" x 4-1/4" x .020 T. ALUMINUM FINS, PRODUCING 1,200 BTU/FT. @ 170 DEG. EWT WHEN MOUNTED AT 18" HIGH. PROVIDE PIPING MODIFICATIONS / PIPING INCREASES WHERE NECESSARY TO INSTALL NEW RADIATORS. PROVIDE END CAPS, INSIDE CORNERS, ETC. WHERE REQUIRED.
  - 16 CONNECT NEW HWS & R TO EXISTING FIN TUBE RADIATOR
  - 17 6" EXHAUST DUCT UP TO THE ATTIC ABOVE. DUCT TO CONNECT INTO NEW 8" MAIN DUCT THAT GOES UP TO ROOF. PROVIDE EXHAUST ROOF CAP FOR PITCHED ROOF. SLAB AND ROOF OPENINGS BY GC. MC TO COORDINATE WORK WITH GC
  - 18 6" EXHAUST DUCT UP TO ROOF WITH GOOSE NECK. ROOF OPENING BY GC. MC TO COORDINATE WORK WITH GC
  - 19 NEW HWS & R DN. TO BOILER ROOM. FOR CONTINUATION SEE BOILER ROOM PLAN AND SCHEMATIC #1 THIS DRAWING
  - 20 G.C. TO INSTALL NEW 3' WAX LAMP D CONCRETE SLAB WITH 6"X8"-W4 DXW4.0 WMM BELOW OAI LOUVER. SLOPE 2"FT AWAY FROM THE BUILDING. GC TO COORDINATE WORK WITH MC
  - 21 NEW EXTERIOR OAI RAIN RESISTANT LOUVER BY UV MANUFACTURER. REFER TO UV SCHEDULE AND DETAILS FOR SIZE AND INSTALLATION. WALL OPENING BY GC. MC TO COORDINATE WORK WITH GC
  - 22 GC TO REMOVE EXISTING CEILING GRID AND INSTALL NEW GRID WHERE NEW PIPING IS INSTALLED. GC TO COORDINATE WORK WITH MC AND ARCHITECTURAL DWGS
  - 23 COORDINATE EX FAN LOCATION WITH CEILING GRID AND LIGHTING
  - 24 PROVIDE MAGICARE 16 GAUGE PIPE ENCLOSURE (FOR PIPING IN THE CORNER, ALONG WALL) AND FIELD MEASURE FOR THE REQUIRED SIZE. COORDINATE COLOR WITH THE ARCHITECT (TYP.)

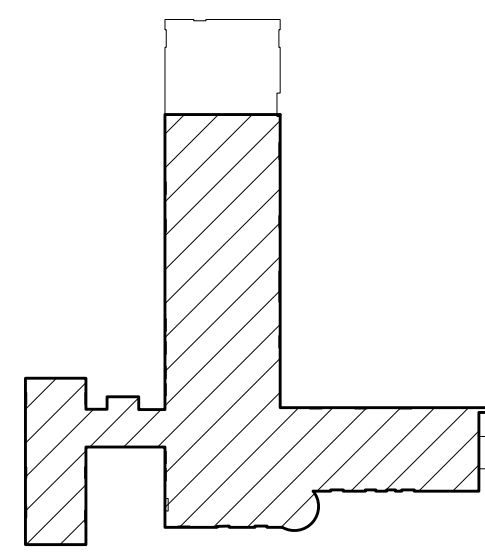
## ZONES AND NEW PUMP P-5 SCHEDULE

- ZONE #1: EXISTING PUMP, P-1, TACO #0034e ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE#1 (CLASSROOM #001& TOILET). (V.I.F.)
- ZONE #2: EXISTING PUMP, P-2, TACO #0034e ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #2 (CLASSROOM #002, #002A AND 002B) (V.I.F.)
- ZONE #3: EXISTING PUMP, P-3, TACO #0034e ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #3 (CLASSROOM #3, #4 AND TOILETS) (V.I.F.)
- ZONE #4: EXISTING PUMP, P-4, TACO #0029a ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #4 (OFFICES #003 THRU #007) (V.I.F.) (NOT PART OF THE CONTRACT)
- ZONE #5 PROVIDE & INSTALL NEW PUMP (P-5) TACO #0034e ECM HIGH EFFICIENCY VARIABLE SPEED COMPLETE W/ VALVING / ACCESSORIES AS SHOWN IN SCHEMATIC #1. PUMP TO SERVE 1" HW PIPING LOOP FOR ZONE#5 (OFFICE # 001, #002 AND NURSE OFFICE). (V.I.F.)

REV.	DATE	ITEM

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### KEY PLAN

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GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

MECHANICAL 1ST FLOOR AND BOILER ROOM NEW PLAN

PROJECT

DWG TITLE

DRAWING BY: DS

CHECK BY: DS

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DISTRICT GREENBURGH CSD

PROJECT PH I - DW CAP IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

DWG TITLE MECHANICAL 1ST FLOOR  
AND BOILER ROOM PLAN

SCALE: AS NOTED

DATE: MAY 2022

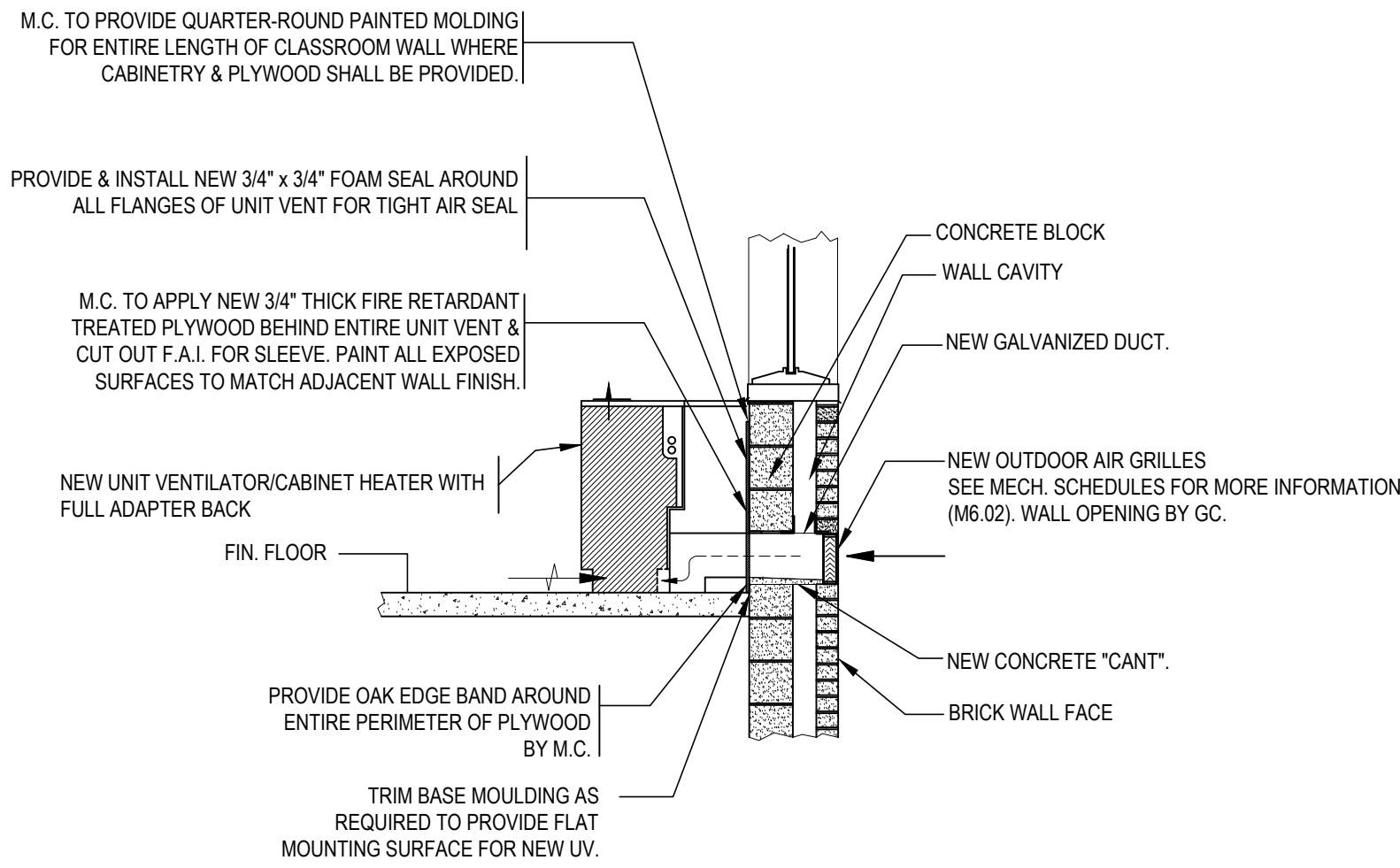
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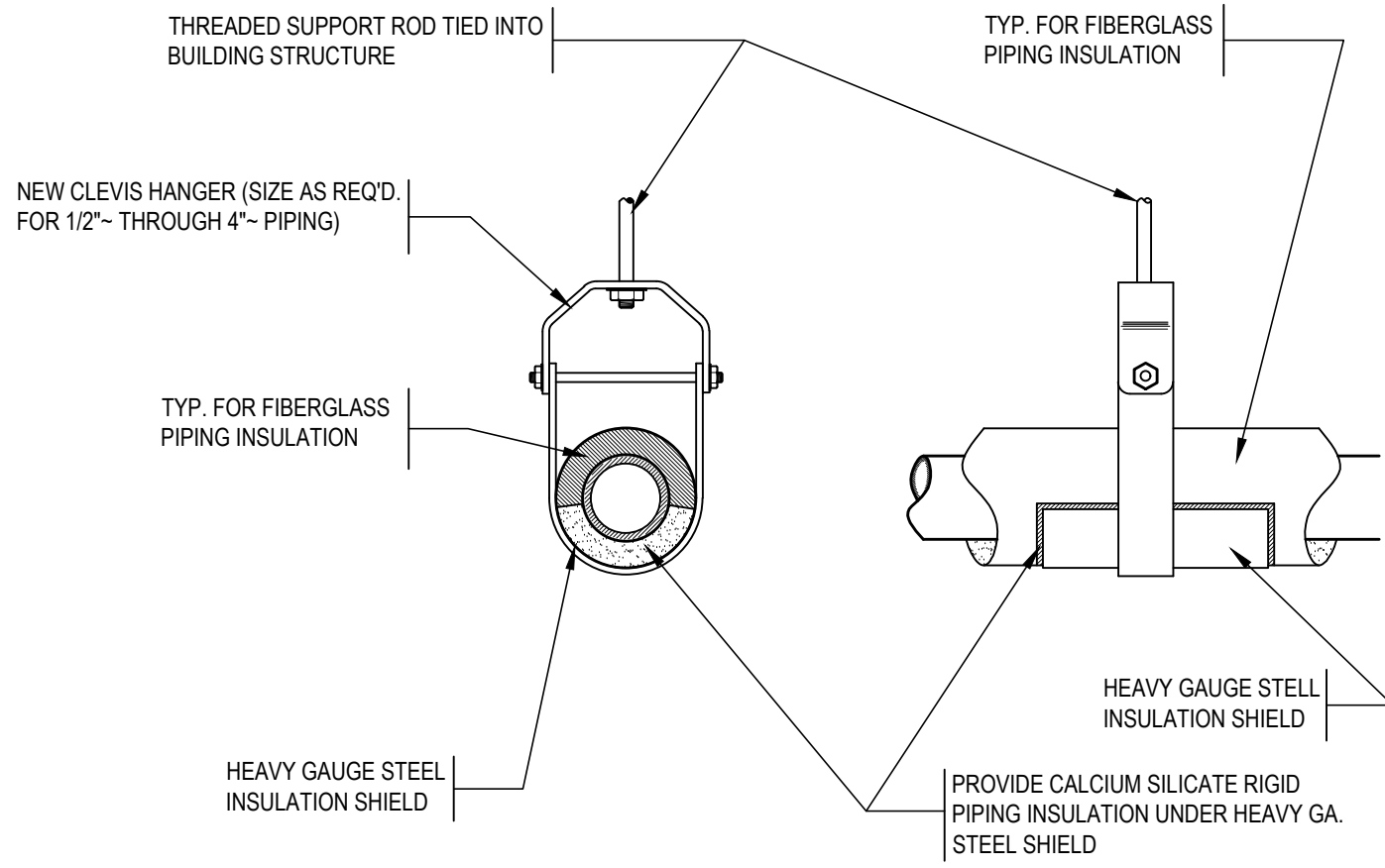
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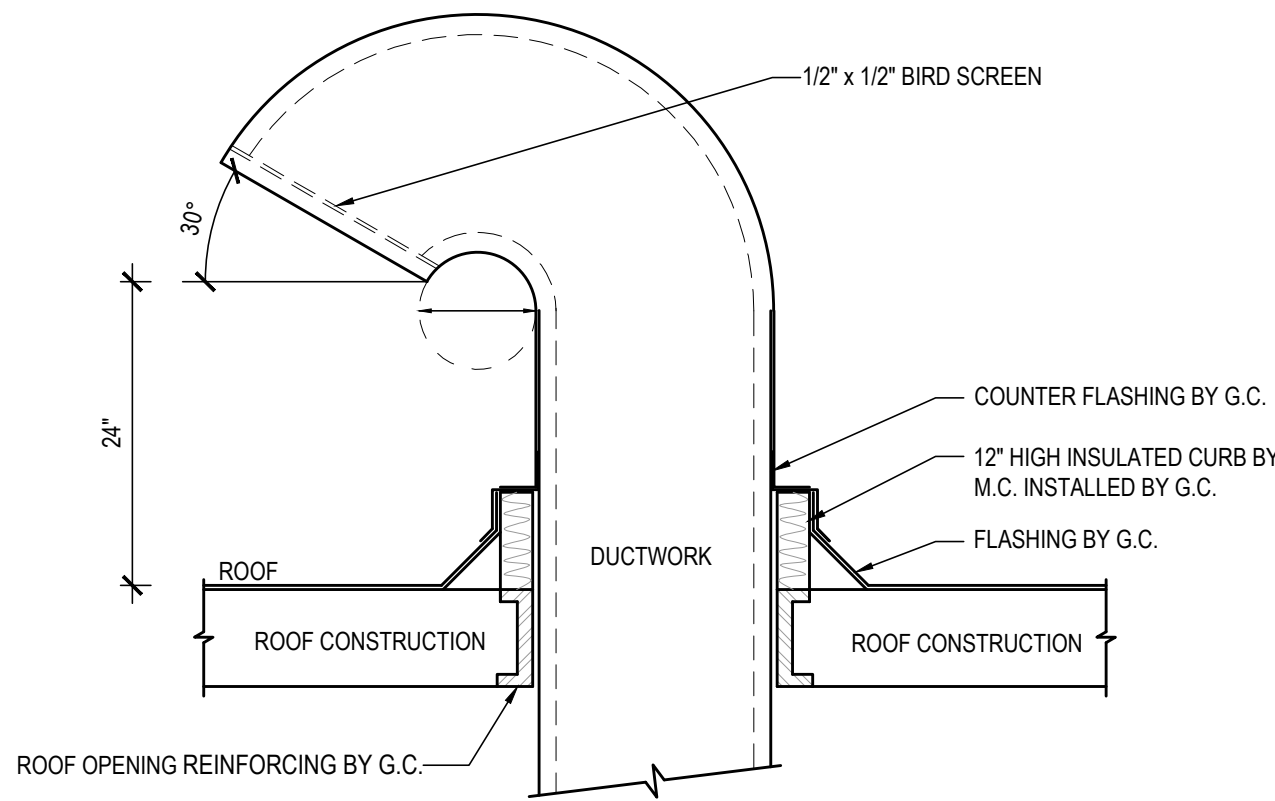
UNIT VENTILATOR/CABINET HEATER FRESH AIR  
INTAKE- MASONRY WALL INSTALLATION DETAIL

SCALE: NOT TO SCALE



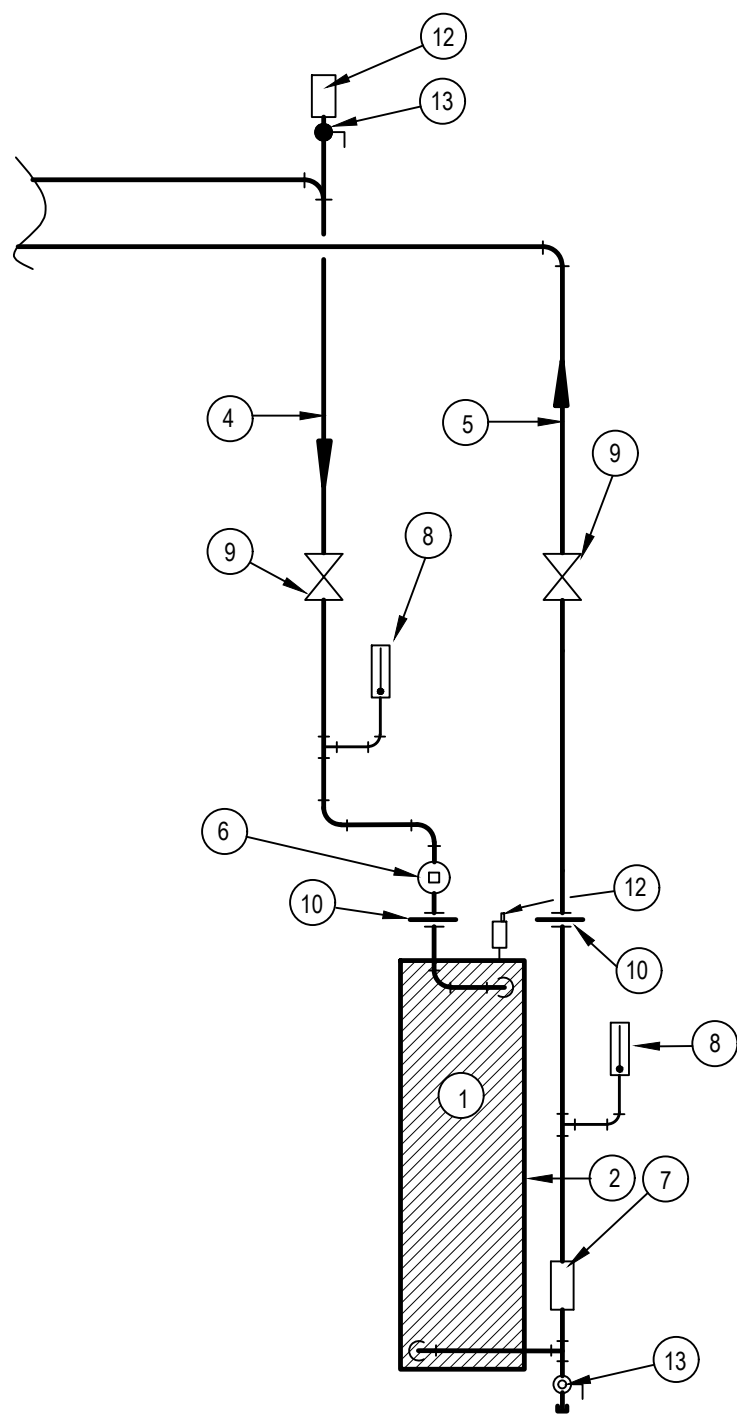
CLEVIS HANGER PIPING SUPPORTS DETAIL

SCALE: NOT TO SCALE



FRESH AIR INTAKE GOOSENECK DETAIL

SCALE: NOT TO SCALE



LEGEND

- ① HOT WATER COIL
- ② DIRECTION OF AIR FLOW
- ④ HOT WATER SUPPLY PIPING
- ⑤ HOT WATER RETURN PIPING
- ⑥ BALANCING VALVE
- ⑦ FLOW INDICATOR
- ⑧ THERMOMETER & WELL
- ⑨ GATE VALVE
- ⑩ PIPING UNION
- ⑪ DRAIN VALVE
- ⑫ AUTOMATIC AIR VENT
- ⑬ FULL PORT BALL VALVE

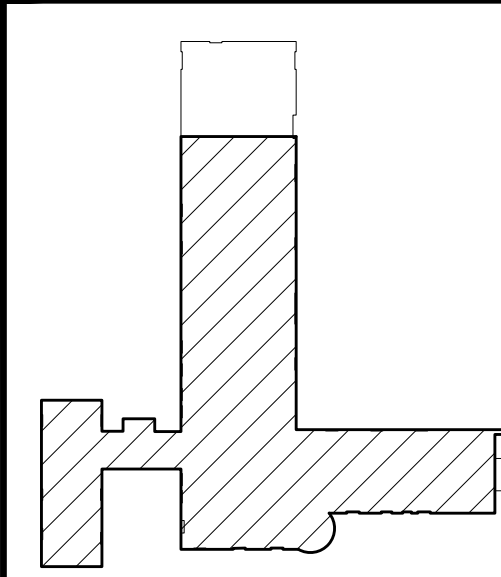
FACE & BYPASS UNIT VENTILATOR HOT WATER COIL  
PIPING DETAIL

SCALE: NOT TO SCALE

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

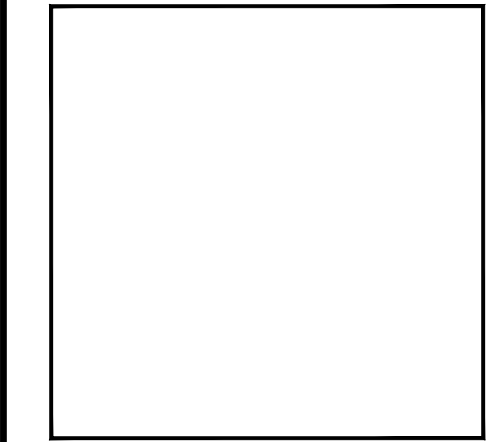
DWG TITLE  
MECHANICAL DETAILS

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NOTICE

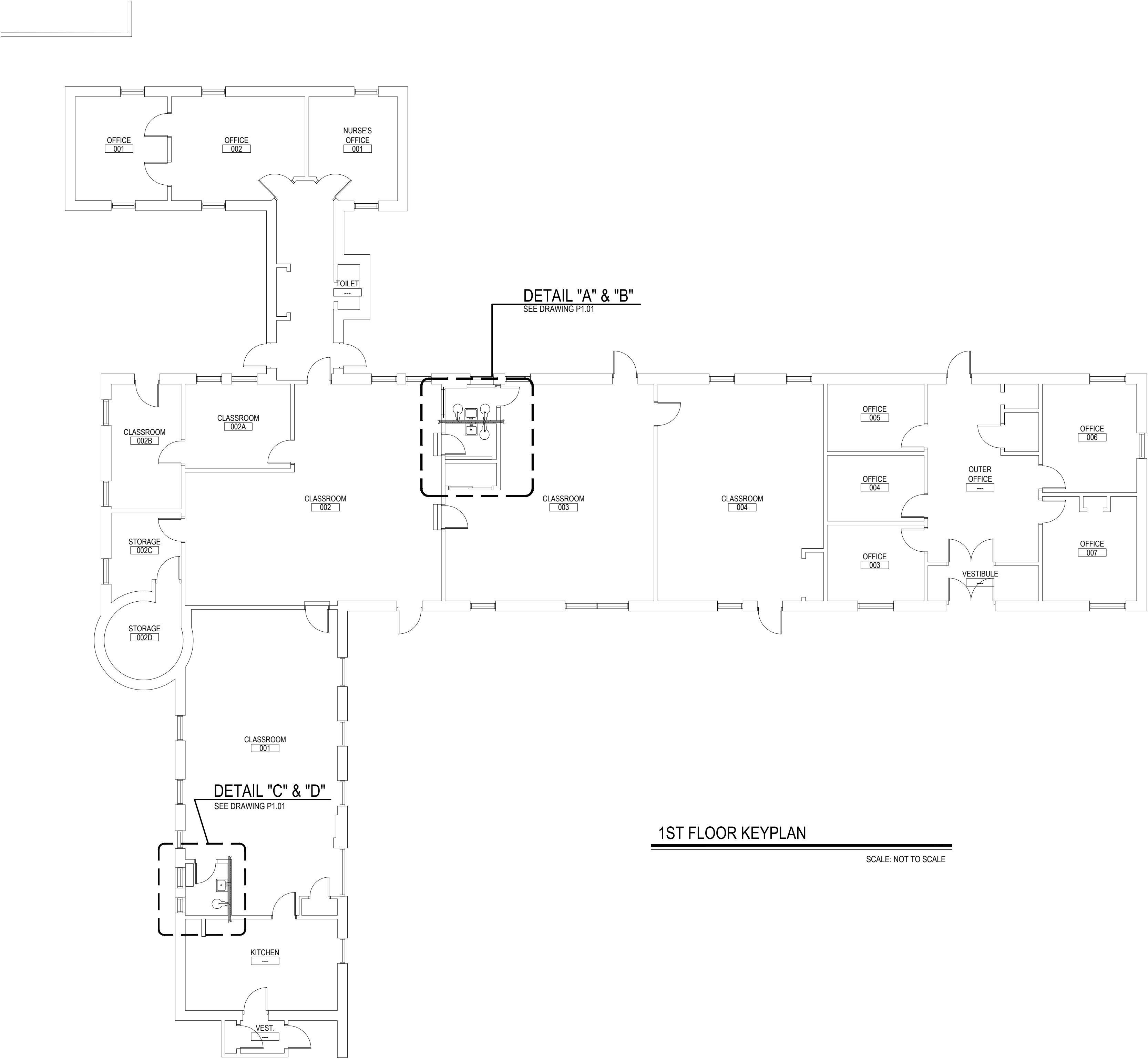
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DISTRICT: GREENBURGH CSD  
PROJECT: PH I - DW CAP IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
DWG TITLE: MECHANICAL  
DETAILS  
SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-292

M6.02E OF - - -



1ST FLOOR KEYPLAN  
SCALE: NOT TO SCALE

PLUMBING FIXTURE SCHEDULE							DESCRIPTION
ITEM No.	FIXTURE	TRAP	VENT	COLD WATER	HOT WATER	TEMPERED WATER	
P-1 (HC)	WATER CLOSET PHYSICALLY HANDICAPPED (CHILDREN)	4"	2"	1"	—	—	FURNISH AND INSTALL AMERICAN STANDARD MADERA YOUTH FLOWISE, 14" HEIGHT, ELONGATED BOWL, NO. 2599.001, TOP SPUD, FLOOR MOUNTED. THE TOP OF WATER CLOSET SEAT SHALL BE 15" ABOVE FINISHED FLOOR FOR HANDICAPPED ACCESSIBILITY. PROVIDE AND INSTALL AMERICAN STANDARD BATTERY POWERED AND SENSOR OPERATED ELECTRONIC FLUSHOMETER MODEL 6065.121.002 LOW CONSUMPTION (1.28 G.P.F.) AND ALL NECESSARY SUPPORTS AND CONNECTIONS. FURNISH SEAT, HEAVY DUTY OPEN FRONT LESS COVER, MODEL 5901, COLOR TO BE WHITE.
P-1	WATER CLOSET (CHILDREN)	4"	2"	1"	—	—	FURNISH AND INSTALL AMERICAN STANDARD MADERA YOUTH FLOWISE, 14" HEIGHT, ELONGATED BOWL, NO. 2599.001, TOP SPUD, FLOOR MOUNTED. PROVIDE AND INSTALL AMERICAN STANDARD BATTERY POWERED AND SENSOR OPERATED ELECTRONIC FLUSHOMETER MODEL 6065.121.002 LOW CONSUMPTION (1.28 G.P.F.) AND ALL NECESSARY SUPPORTS AND CONNECTIONS. FURNISH SEAT, HEAVY DUTY OPEN FRONT LESS COVER, MODEL 5901, COLOR TO BE WHITE.
P-2 (HC)	LAVATORY PHYSICALLY HANDICAPPED (CHILDREN)	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	FURNISH AND INSTALL AMERICAN STANDARD LUCERNE WHITE VITREOUS CHINA WALL HUNG LAVATORY MODEL 0355.012 WITH FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF-DRAINAGE DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS AND BRACKET SUPPORT. RIM OF LAVATORY SHALL BE 30" ABOVE FINISHED FLOOR FOR HANDICAPPED ACCESSIBILITY. FURNISH AND INSTALL WITH AMERICAN STANDARD INNSBROOK SELECTRONIC ELECTRONIC PROXIMITY LAVATORY FAUCET MODEL 6063.205 BATTERY POWERED FAUCET (0.5 GPM) WITH AMERICAN STANDARD MODEL 606XTM/1070 THERMOSTATIC MIXING VALVE, GRID STRAINER AND TRUEBRO MODEL 2016-AS-L LAV SHIELD ENCLOSURE. FURNISH AND INSTALL LAVATORY WITH ZURN MODEL 21231-EZ CONCEALED ARM CARRIER.
P-2	LAVATORY (CHILDREN)	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	FURNISH AND INSTALL AMERICAN STANDARD LUCERNE WHITE VITREOUS CHINA WALL HUNG LAVATORY MODEL 0355.012 WITH FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF-DRAINAGE DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS AND BRACKET SUPPORT. RIM OF LAVATORY SHALL BE 30" ABOVE FINISHED FLOOR FOR HANDICAPPED ACCESSIBILITY. FURNISH AND INSTALL WITH AMERICAN STANDARD INNSBROOK SELECTRONIC ELECTRONIC PROXIMITY LAVATORY FAUCET MODEL 6063.205 BATTERY POWERED FAUCET (0.5 GPM) WITH AMERICAN STANDARD MODEL 606XTM/1070 THERMOSTATIC MIXING VALVE, GRID STRAINER AND TRUEBRO MODEL 2016-AS-L LAV SHIELD ENCLOSURE. FURNISH AND INSTALL LAVATORY WITH ZURN MODEL 21231-EZ CONCEALED ARM CARRIER.

PLUMBING NOTES

- DEMOLITION**
- PLUMBING CONTRACTOR TO SHUT-OFF & DISCONNECT HOT & COLD WATER SUPPLIES, SANITARY WASTE LINES & VENT PIPING. GENERAL CONTRACTOR TO REMOVE ALL PLUMBING FIXTURES AS INDICATED ON DRAWINGS.
  - ALL HOT WATER, COLD WATER, SANITARY & VENT PIPING TO EXISTING PLUMBING FIXTURES SHALL BE COMPLETELY REMOVED BACK AS INDICATED ON DRAWINGS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY PIPE INSULATION.
- NEW WORK**
- PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIXTURES AS SHOWN IN PLUMBING FIXTURE SCHEDULE.
  - PLUMBING CONTRACTOR SHALL INSTALL NEW PIPING WITH CONNECTIONS TO MAIN PIPING FOR EACH NEW FIXTURE.
  - PLUMBING CONTRACTOR SHALL CONNECT NEW VENT PIPING TO EXISTING VENTS OR NEW VENTS.
  - SEE GENERAL NOTES AND PLUMBING SPECIFICATIONS SECTION 15A FOR MORE DETAIL.
  - DEMOLITION AND RECONSTRUCTION OF PLUMBING WALLS BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR.
  - IN ALL INSTANCES WHERE NEW FIXTURES ARE PROPOSED THE PLUMBING CONTRACTOR SHALL PERFORM ALL DEMOLITION REQUIRED FOR REMOVAL OF EXISTING FIXTURE CARRIERS AND INSTALL NEW FIXTURE CARRIERS. GENERAL CONTRACTOR SHALL THEN BUILD OR PATCH WALLS AS REQUIRED, INCLUDING NEW TILE FINISHES. UPON COMPLETION OF MASONRY / TILE THE PLUMBING CONTRACTOR SHALL INSTALL NEW FIXTURES PER SPECIFICATIONS.
  - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATIONS OF NEW PLUMBING FIXTURES.

LEAD-FREE FIXTURE COMPLIANCE NOTE

- EPA 67.4 NOTE:**
- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW AND/OR REPLACEMENT PLUMBING FIXTURES. THE RESPECTIVE FIXTURES MUST ADHERE TO THE "LEAD-FREE" DIVISION 15A SPECIFICATIONS OUTLINING THE INSTALLATION MEANS AND METHODS AS WELL AS THE FIXTURE ITSELF BEING "LEAD FREE." THE CONTRACTOR SHALL PROVIDE THE REQUIRED SUBMITTALS FOR ALL FIXTURES AND BUILDING MATERIALS PRIOR TO THE FIXTURE INSTALLATION, AND CONFIRM ON THE JOBSITE THAT THE FIXTURE ADHERES TO "LEAD-FREE" REGULATIONS.
    - FOLLOWING THE POTABLE FIXTURE INSTALLATION, THE P.C. SHALL REMOVE ALL FILTERS AND STRAINERS AND FLUSH THE FIXTURE OF DEBRIS FROM THE SYSTEM.
  - FOLLOWING THE COMPLETION OF THE P.C. WORK SCOPE, THE OWNER SHALL HAVE THE WATER CONDITIONS TESTED FOR LEAD CONTAMINANTS BY A THIRD-PARTY TESTING FIRM TO REGULATION 67.4 OF THE DEPARTMENT OF HEALTH REGULATIONS AS PART OF SECTION 1417 OF THE FEDERAL SAFE WATER ACT TO DETERMINE THEM AS "LEAD-FREE" COMPLIANT, AND NYSED GUIDELINES OF LESS THAN 15PPB.
  - IF A FIXTURE DOES NOT COMPLY WITH SUB-PART REGULATION 67.4 OF THE DOH SECTION 1417 OF THE FEDERAL SAFE WATER ACT, THE P.C. SHALL PROVIDE A REPLACEMENT FIXTURE AT NO ADDITIONAL COST, TO THEN REPEAT THE INSTALLATION AND TESTING REQUIREMENTS. THE P.C. SHALL ABSORB THE FEE FOR THE FIRST LEAD TESTING PROCEDURE AS WELL AS THE FOLLOWING CONFIRMATION PROCEDURES AT NO ADDITIONAL COST TO THE OWNER.

LEGEND

— — — —	CW - COLD WATER LINE
— — — —	HW - HOT WATER LINE
— SW — —	SW - SANITARY WASTE LINE
--- ST ---	ST - STORM DRAIN
— — — —	HWR - HOT WATER RETURN
- - - - V - - - -	V - VENT LINE
— TW — —	TW - TEMPERED WATER LINE
— G — —	GAS LINE PIPING
X - X - X - X	DEMO PIPE
—    — —	CLEAN OUT IN HUNG CEILING
DPCO	DECK PLATE CLEAN OUT
WPCC	WALL PLATE CLEAN OUT
●	BALL VALVE
⊕	POINT OF CONNECTION
○ UP	PIPE RUNNING UP
○ DN	PIPE RUNNING DOWN
⊕	NEW GAS COCK IN PIPING

GENERAL NOTES

- PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID AND PERFORM ALL INVESTIGATION WORK BEFORE SUBMITTING A BID ON THE PLUMBING WORK.
- CONNECT ALL HOT WATER, COLD WATER, VENT, AND WASTE PIPING AS REQUIRED INCLUDING PIPING, VALVES, TAPS, ESCUTCHEONS, SLEEVES, ACCESS DOORS, CLEANOUTS, PIPE HANGERS, INSULATION, ETC.
- PROVIDE AND INSTALL PLUMBING FIXTURES INCLUDING ALL CUTTING AND PATCHING AS REQUIRED INCLUDING WASTE, VENT, AND WATER SUPPLY CONNECTIONS AND FITTINGS (ALL TRAPS TO HAVE CLEANOUTS).
- ALL WORK SHALL BE IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING RELATED FEES.
- PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO CONSTRUCTION.
- INTERIOR DOMESTIC WATER PIPING SHALL BE TYPE "1" COPPER. UNDERGROUND DOMESTIC WATER PIPING SHALL BE TYPE "K" COPPER FOR UP TO 2" AND DUCTILE IRON OVER 2". WASTE PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE. HUB AND SPIGOT UNDERGROUND, AND NO HUB INSIDE BUILDING. STORM DRAIN PIPING SHALL BE NO HUB CAST IRON. SOIL PIPE INSIDE BUILDING. VENT PIPING SHALL BE NO HUB CAST IRON.
- PIPE INSULATION SHALL BE AS FOLLOWS:

FLUID	MINIMUM PIPE INSULATION SCHEDULE	
	LESS THAN 1-1/2"	GREATER THAN 1-1/2"
TEMPERED WATER	1-1/2"	2"
COLD WATER	1-1/2"	1-1/2"
HOT WATER	1-1/2"	2"

- ALL WORK SHALL BE PROPERLY TESTED AND CLEANED. PROVIDE ONE YEAR WARRANTY FROM DATE OF ACCEPTED COMPLETION ON ALL PARTS AND LABOR.
- ALL EXPOSED METALWORK ON PLUMBING FIXTURES SHALL BE CHROME PLATED.
- PROVIDE SHUTOFF VALVE ON WATER SUPPLY BRANCH TO EACH INDIVIDUAL FIXTURE IN AN ACCESSIBLE LOCATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- WHERE DISSIMILAR METALS ARE CONNECTED, PROVIDE AN APPROVED MAKE OF NON-GALVANIC ISOLATOR, DIELECTRIC UNION OR FLANGES.
- PROVIDE AND INSTALL BOLT CAPS ON ALL TOILETS.
- RUN LOCAL HORIZONTAL DRAINAGE PIPING AT A GRADE OF 1/4-INCH PER FOOT WHEREVER POSSIBLE, BUT NO LESS THAN 1/8-INCH PER FOOT. HOUSE DRAINS AT 1/8-INCH PER FOOT UNLESS OTHERWISE NOTED AND OUTSIDE UNDERGROUND DRAINAGE PIPING AS INDICATED OR REQUIRED BY CODE.
- RUN VENT PIPING WITH LONG TURN ELBOWS AT CHANGES IN DIRECTION, GRADE TO DRAIN OUT CONDENSATION, AND CONNECT AT BASE TO PREVENT ACCUMULATION OF RUST.
- PROVIDE CLEANOUTS (FULL SIZE UP TO 4-INCHES AND AT LEAST HALF-SIZE FOR LARGER PIPES WITH 4-INCH MINIMUM), WHERE INDICATED, APPROXIMATELY EVERY 50 FEET ON HORIZONTAL DRAINAGE PIPING, AT CHANGES IN DIRECTION, AT BASE OF LEADERS, SOIL, AND WASTE STACKS, AND AS REQUIRED BY CODE.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORE DRILLING THRU WALLS, FLOORS AND CUTTING & PATCHING AS REQUIRED TO FACILITATE INSTALLATION OF PIPES AND PLUMBING FIXTURES.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL NEW VENTS FROM FIXTURES UP TO ROOF AS SHOWN.
- ALL FLOOR TRAPS SHALL BE INSTALLED WITH PRIMER TAPPING FOR WATER CONNECTION TO TRAP.
- P.C. SHALL PROVIDE AND INSTALL PIPE INSULATION ON ALL DOMESTIC COLD WATER SUPPLY, HOT WATER SUPPLY, HOT WATER SUPPLY (RECIRCULATION LINE) AND ROOF DRAIN PIPING THAT IS EXPOSED ABOVE CEILINGS OR IN CRAWL SPACE AND PIPE CHASES.

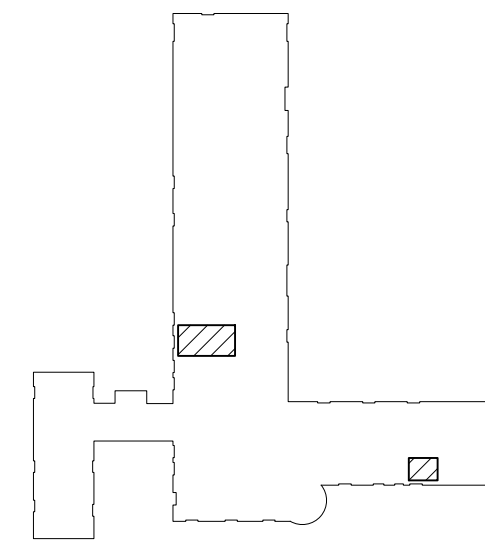
FIRE STOP NOTES

- ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED BY PLUMBING CONTRACTOR.
- THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-616 PUTTY STICK OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED.
- FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

PLUMBING GENERAL NOTES, SCHEDULE AND KEY PLAN

PROJECT

DWG TITLE

DRAWING BY: DS  
CHECK BY: DS

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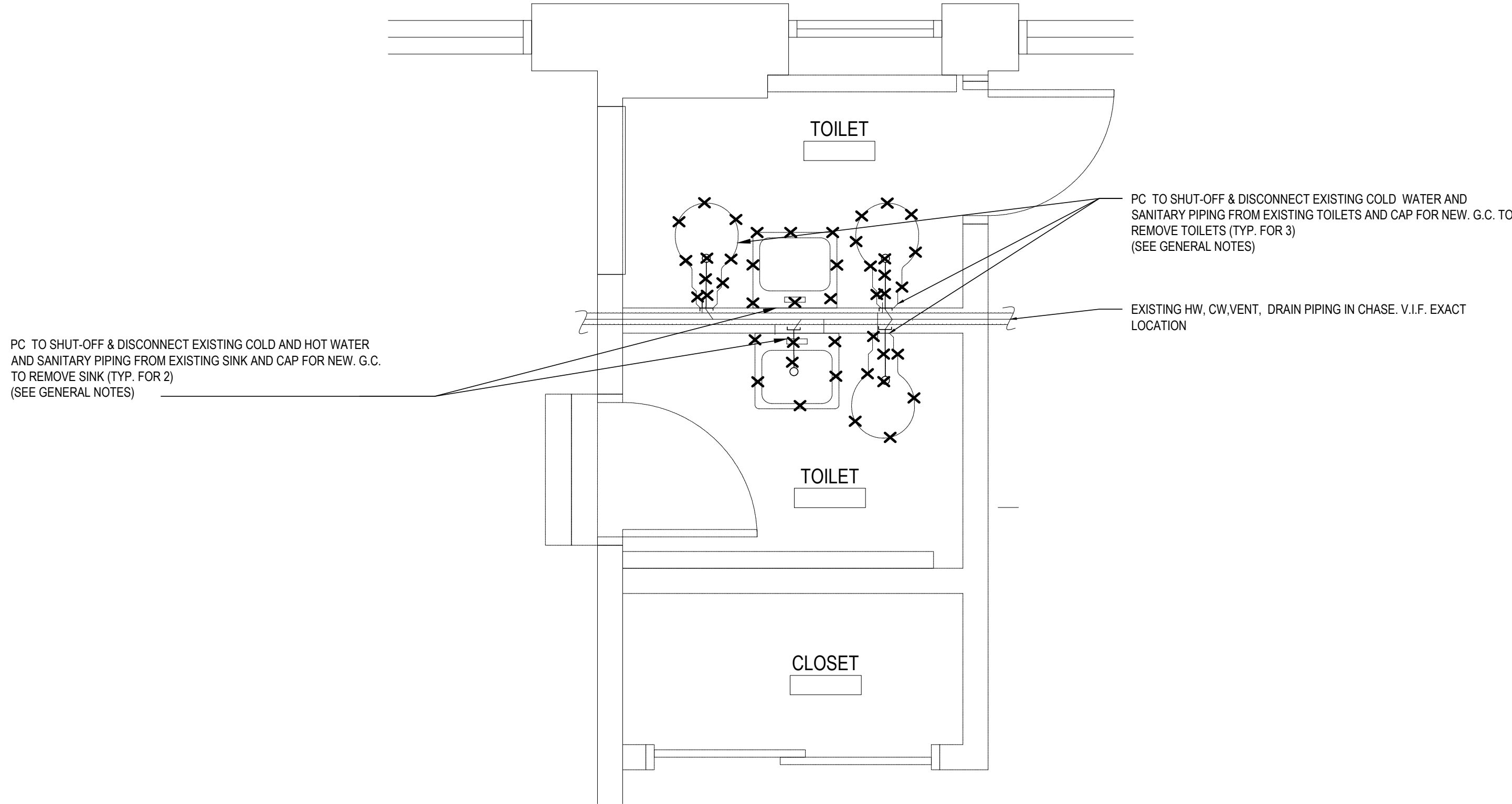
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PATCHOGUE | ALBANY  
NEW YORK 11772 | NEW YORK 12205  
T. 631.475.0349 | T. 518.621.7650  
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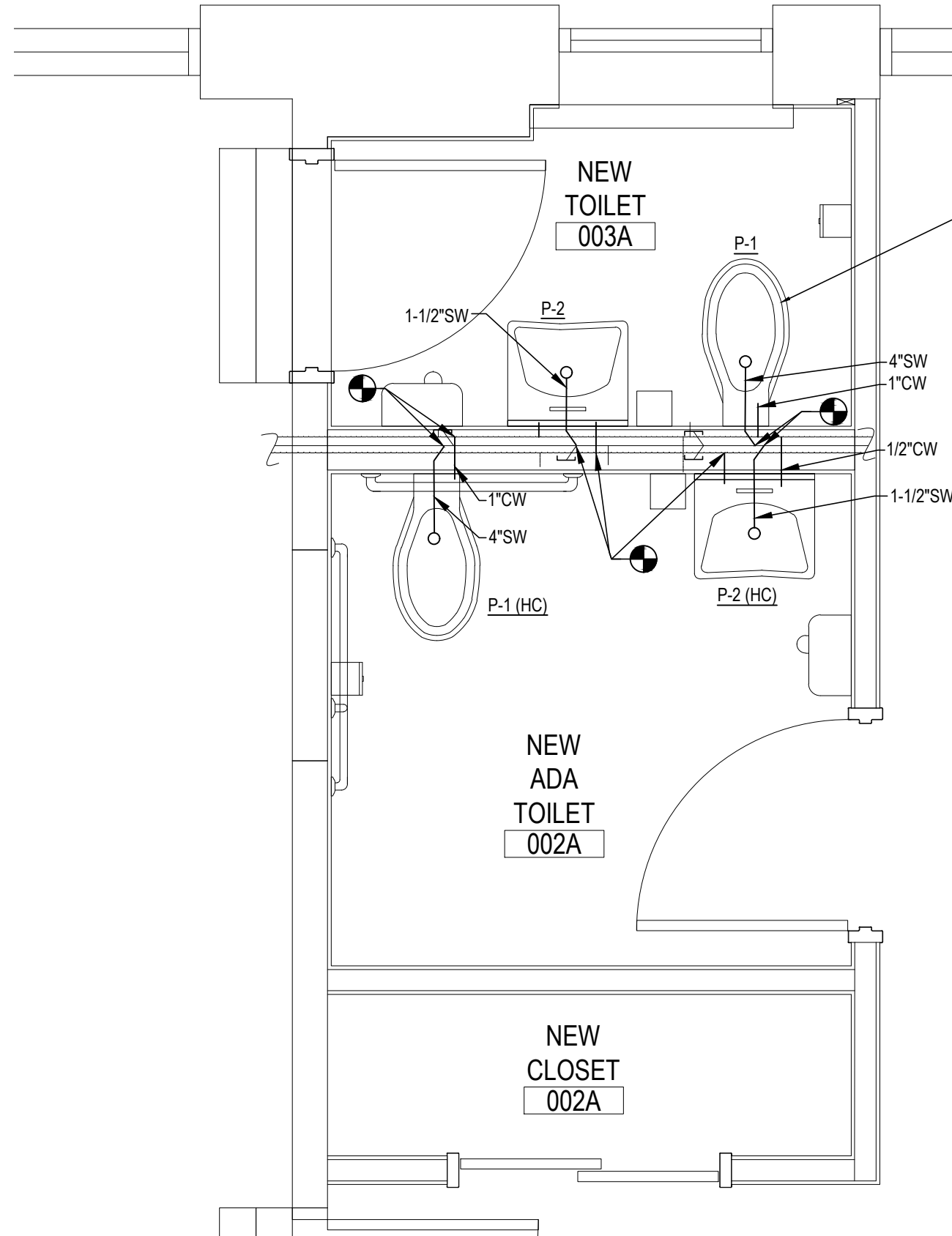
SED No: 66-04-07-06-0-011-008  
DISTRICT: GREENBURGH CSD  
PROJECT: PH. I - DW CAP. IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
DWG TITLE: PLUMBING GENERAL NOTES,  
SCHEDULE AND KEY PLAN

SCALE: AS NOTED  
DATE: MAY 2022  
BID PICK-UP: MAY 27, 2022  
FILE No: 21-292

P0.01E of ---

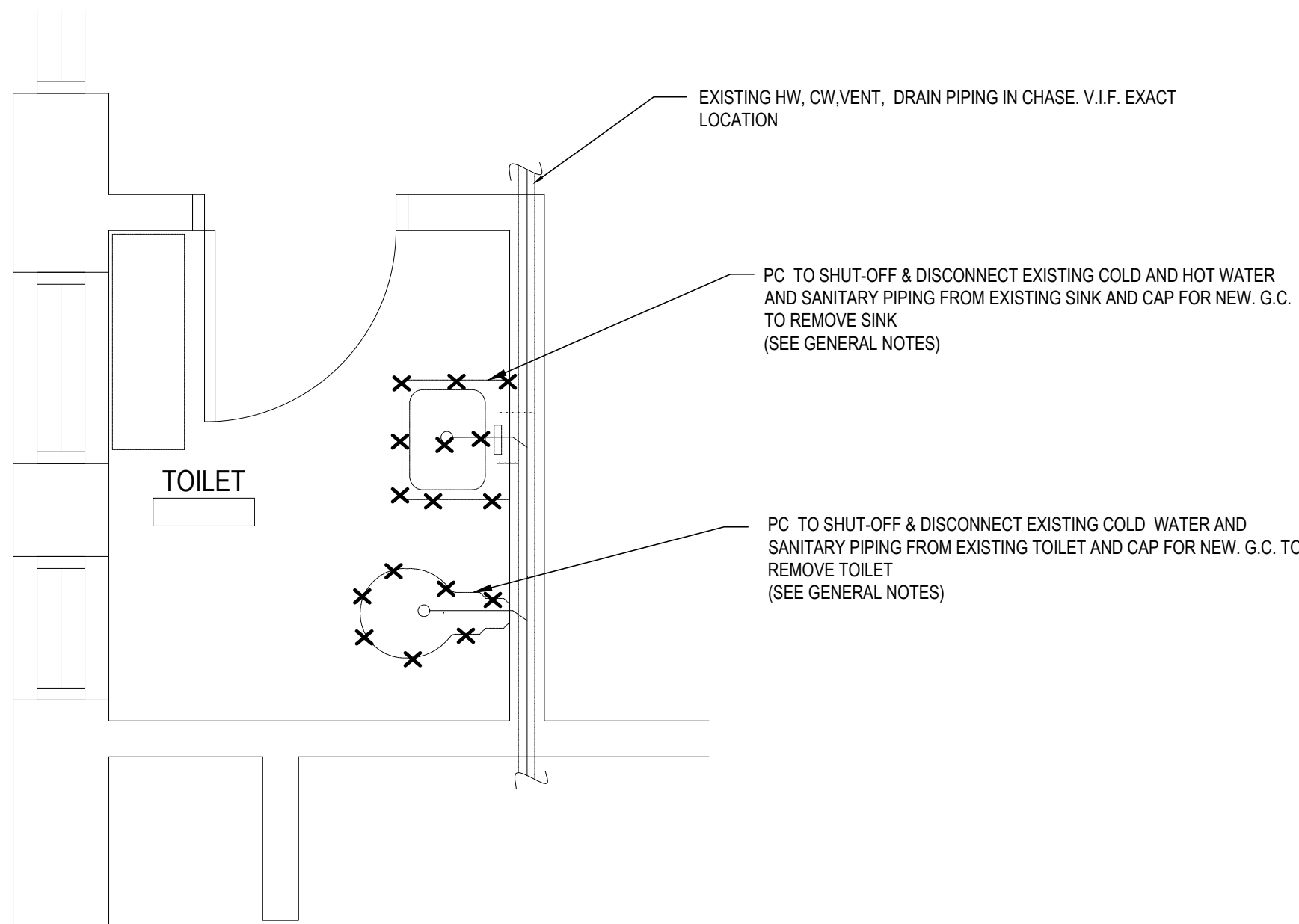


DETAIL "A" - PLUMBING DEMOLITION 1ST FLOOR TOILETS PLAN  
SCALE: 1/2"=1'-0"

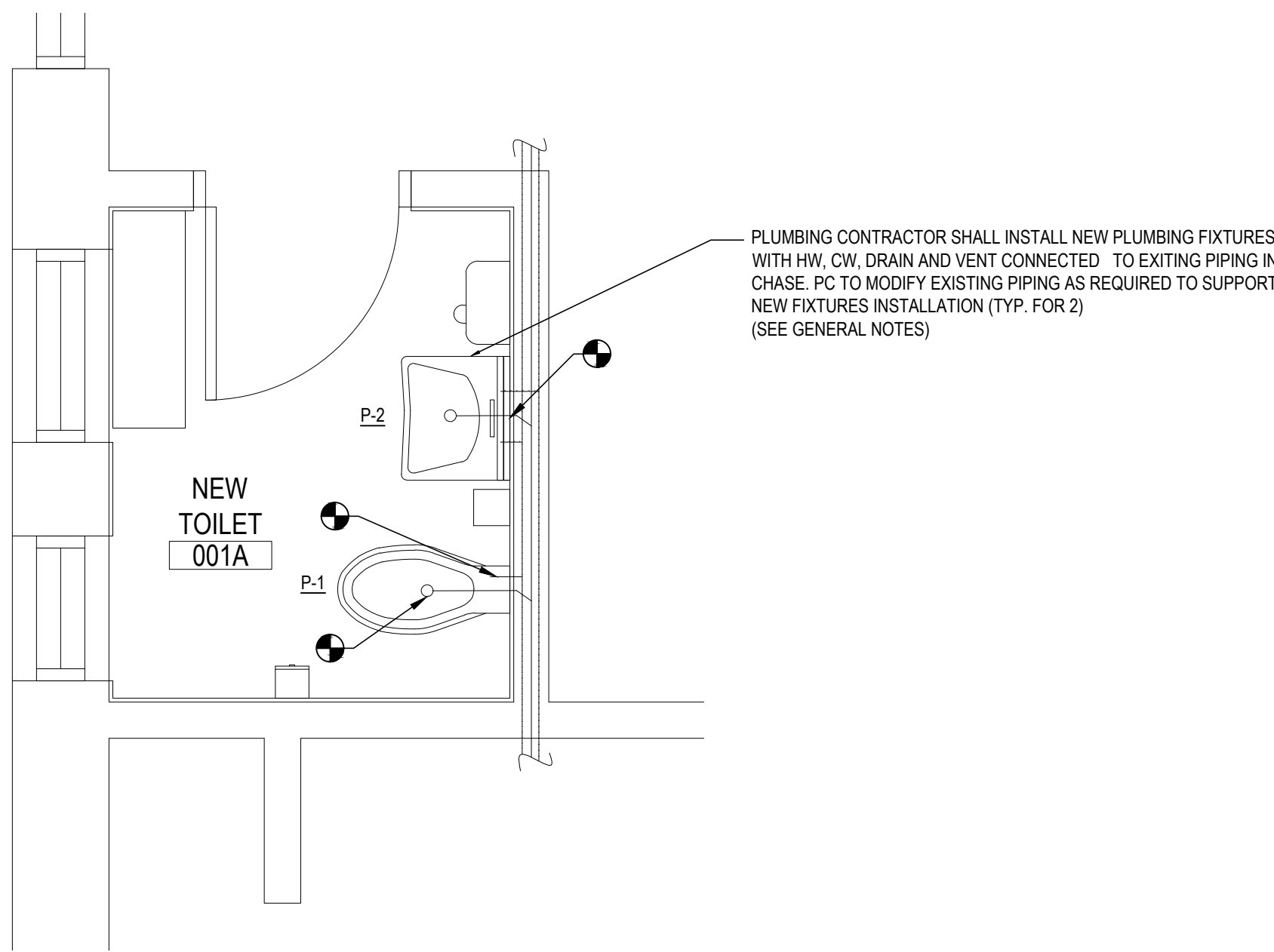


DETAIL "B" - PLUMBING NEW 1ST FLOOR TOILETS PLAN  
SCALE: 1/2"=1'-0"

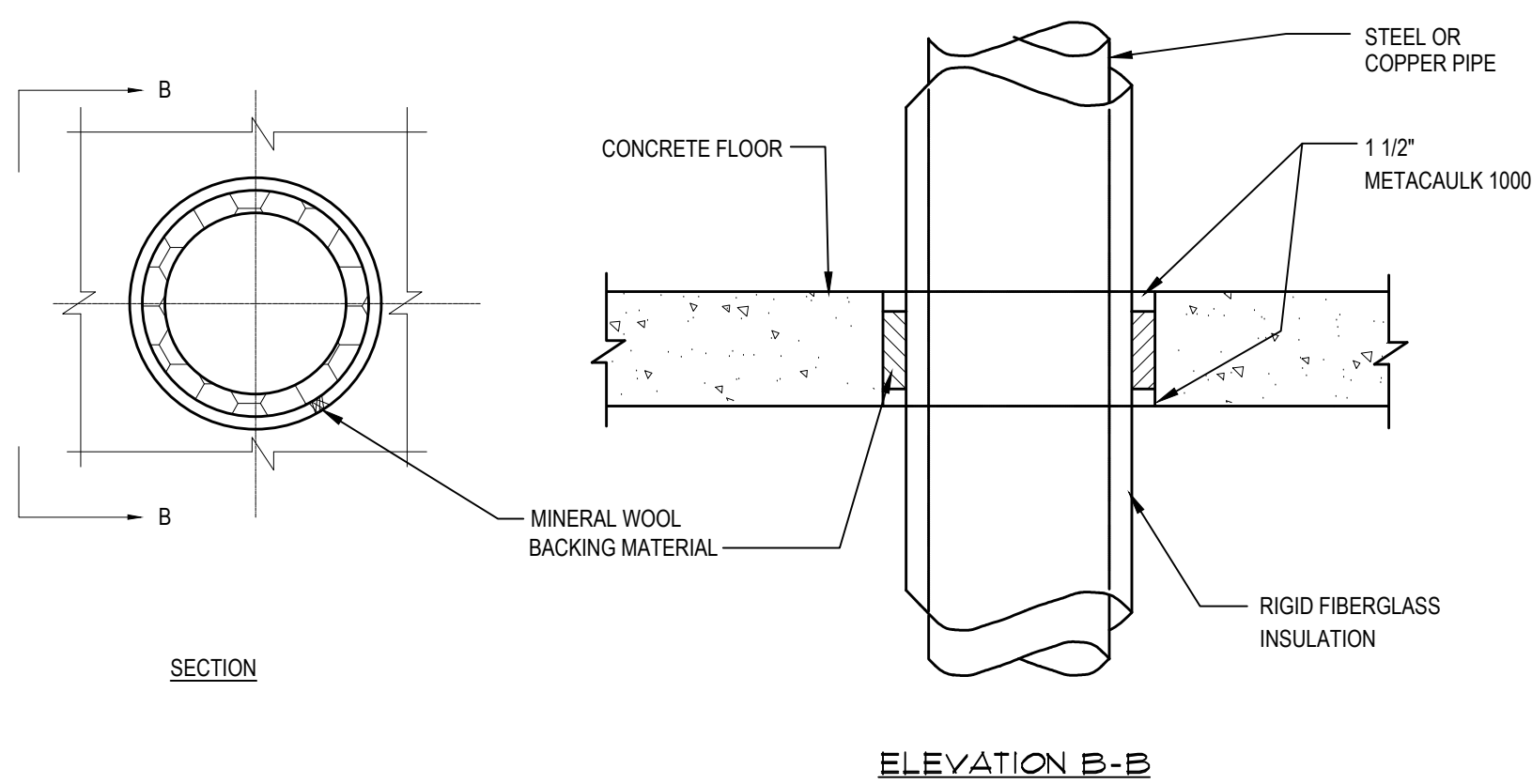
- PLUMBING CONTRACTOR NOTES:**
1. P.C. TO FIELD VERIFY EXACT LOCATION OF EXISTING MAIN SEWAGE/VENT AND HOT/COLD WATER PIPES IN CHASE.
  2. PLUMBING CONTRACTOR TO SHUT-OFF & DISCONNECT HOT & COLD WATER SUPPLIES, SANITARY WASTE LINES, VENT LINES.
  3. ALL EXISTING SANITARY, COLD AND HOT WATER PIPING NOT REUSED OR MODIFIED FOR REUSE ARE TO BE CAPPED AND SAFFED OFF FLUSH WITH WALLS/FLOORS BY PC.
  4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATIONS OF NEW PLUMBING FIXTURES.
  5. SEE PLUMBING FIXTURE SCHEDULE ON DWG. P0.01 FOR MORE INFORMATION ABOUT PLUMBING FIXTURES.
- GENERAL CONTRACTOR NOTES:**
1. GENERAL CONTRACTOR TO REMOVE ALL PLUMBING FIXTURES.
  2. G.C. SHALL SAW CUT EXISTING FLOOR SLAB TO ACCOMMODATE NEW PLUMBING WORK. G.C. TO PATCH FLOOR, RETILE AND COORDINATE WITH P.C. PRIOR TO DEMOLITION.
  3. G.C. TO PATCH WALL AS REQUIRED AND RETILE.



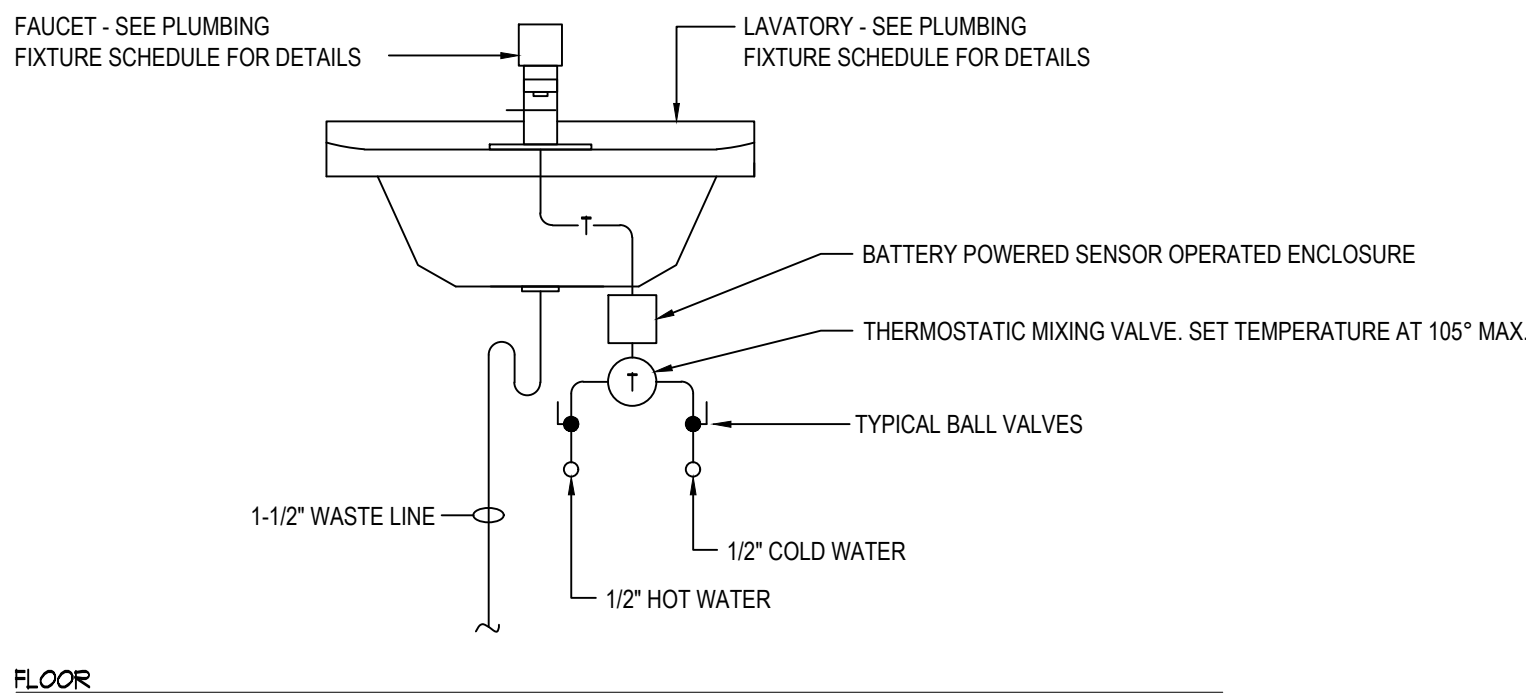
DETAIL "C" - PLUMBING DEMOLITION 1ST FLOOR TOILETS PLAN  
SCALE: 1/2"=1'-0"



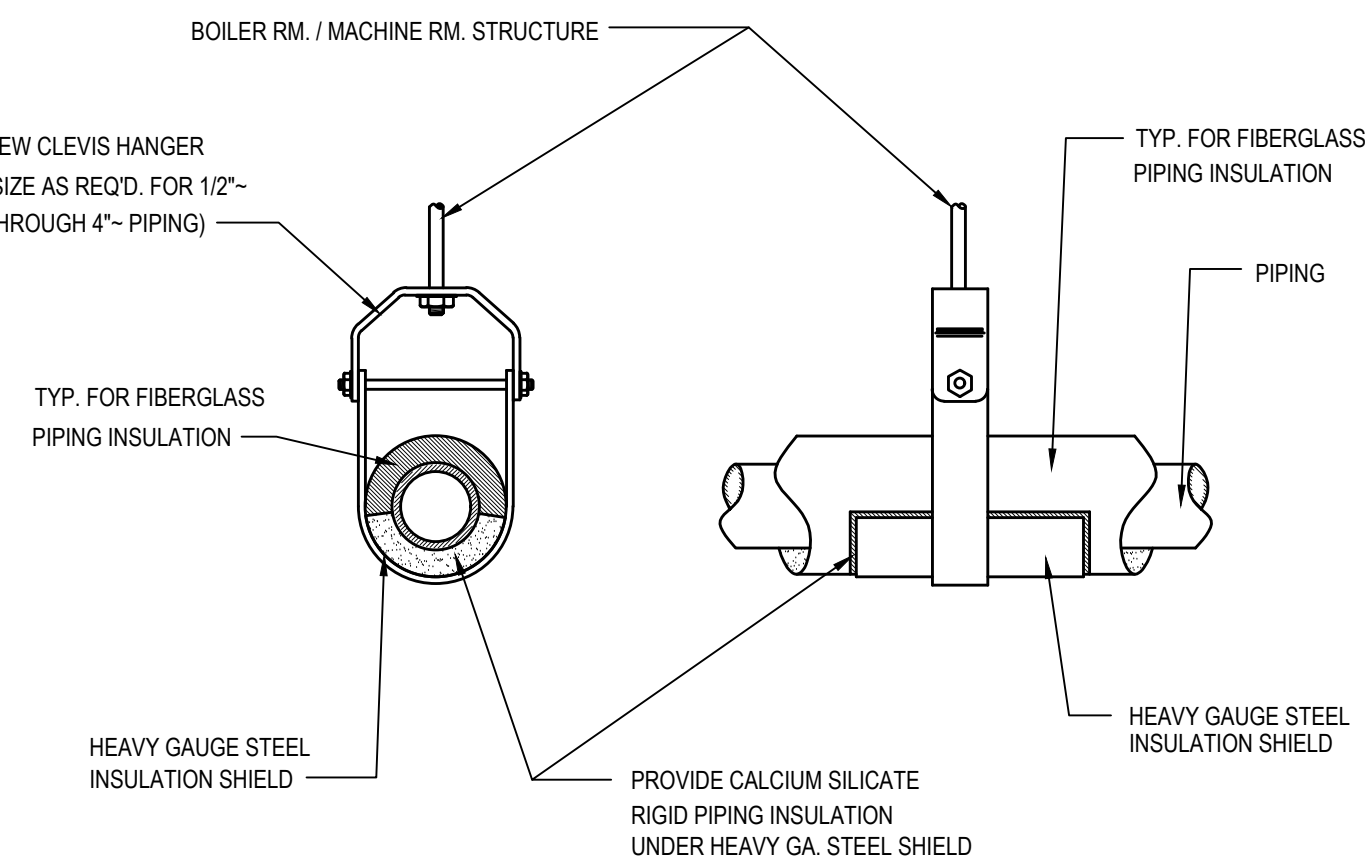
DETAIL "D" - PLUMBING NEW 1ST FLOOR TOILETS PLAN  
SCALE: 1/2"=1'-0"



PIPING FLOOR PENETRATION DETAIL  
SCALE: NOT TO SCALE



LAVATORY PIPING DETAIL  
SCALE: NOT TO SCALE

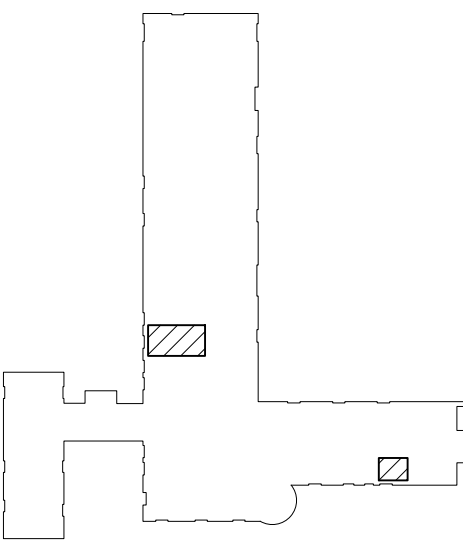


CLAVIS HANGER PIPING SUPPORT DETAIL  
SCALE: NOT TO SCALE

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KEY PLAN  
NOT TO SCALE

**PROJECT**  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

**DWG TITLE**  
PLUMBING DEMOLITION AND NEW PART PLANS  
AND DETAILS

DRAWING BY: DS  
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DISTRICT: GREENBURGH CSD  
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DWG TITLE: PLUMBING DEMOLITION AND  
NEW PART PLAN AND DETAILS  
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P1.01E OF ---

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEERS SPECIFICATIONS.
2. THE VOLTAGE CHARACTERISTIC OF THIS SCHOOL IS 120/208VAC, 4 WIRE, 3PH, GROUNDED NEUTRAL, WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/TOWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL. ANY FIELD CONDITION FOUND AFTER BID APPROVAL, WHICH HAMPERS AND/OR PREVENTS ANY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR. THE DIVISION 16 CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. ALL NEW ELECTRICAL MATERIAL, AND EQUIPMENT SHALL CONFORM TO THE STANDARDS AND BEAR THE INSPECTION LABEL OF THE UNDERWRITERS LABORATORIES AND SHALL BE APPROVED FOR USE BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.
7. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. CONTRACTOR TO COORDINATE ALL LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER. THE EC IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE EC SHALL REFER TO THE MECHANICAL EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN APPROVED ELECTRICAL INSPECTION CERTIFICATE FROM THE LOCAL AHJ AND PAY ASSOCIATED FEE. SUBMIT A PHOTOGRAPH OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. SUBMIT A COPY OF THIS CERTIFICATE TO THE OWNER.
11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN THE PROJECT MANUAL.
12. IF ADDITIONAL POLE POSITIONS ARE REQUIRED FOR NEW CIRCUITS IN EXISTING PANELS SERVICING RENOVATED AREAS, REMOVE (2) ADJACENT 1 POLE BREAKERS PROVIDE AND INSTALL 3P, 60A BREAKER FOR SUB FEED TO A SURFACE MOUNTED 100A, 3PH, 18 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL. EACH WITH A 1P, 20A BREAKER. PROVIDE (2) 1P, 20A BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3P + 1Ø(N) + 1Ø(G) IN 1".
13. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTORS CONTRACT.
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ALL TRADES FOR THE DURATION OF THE PROJECT. SERVICE SHALL BE SUPPLIED TO CONTRACTORS CONSTRUCTION TRAILERS WHERE SUCH IS REQUESTED. USE THE EXISTING POWER PANELS FOR SUCH SUPPLY. POWER COSTS WILL BE PAID BY THE OWNER. ALL CONSTRUCTION POWER RECEPTACLES SHALL BE GFI PROTECTED.
15. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES FROM DAMAGES DURING CONSTRUCTION. THIS INCLUDES DEVICES WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
16. THE INDICATED SOURCE OF EXISTING CIRCUITS MAY NOT BE KNOWN OR HAS NOT BEEN VERIFIED. IT IS THE DIVISION 16 CONTRACTORS RESPONSIBILITY TO TRACE OUT, LOCATE AND VERIFY THE DISCONNECTING MEANS OF EXISTING CIRCUIT(S) TO BE IMPACTED BY THE WORK. SAFE OFF THE CIRCUIT(S) AS REQUIRED TO SAFELY PERFORM THE WORK, AND RE-ENERGIZE UPON COMPLETION. UPDATE PANEL DIRECTORIES UPON COMPLETION.
17. WHERE EXISTING FIRE ALARM SYSTEMS ARE MODIFIED DURING THE COURSE OF THE PROJECT, PROVIDE OWNER WITH UPDATED COMPLETION RECORD DOCUMENTATION PER NFPA 72, ARTICLE 10.18. INCLUDE COPY OF UPDATED SITE SPECIFIC SOFTWARE. ANY ADDITIONAL DEVICES SHALL BE MAPPED INTO THE SYSTEM WITH THE APPROPRIATE ADDRESSES/LABELS.
18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. NOTE ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE. UTILIZING CEILING FRAMING ALONE IS NOT ACCEPTABLE. NEW LIGHTING FIXTURES (OTHER THAN THEATRICAL EQUIPMENT) SHALL NOT BE DAISY CHAINED. RE-USE OF AN EXISTING LIGHTING CKT INCLUDES HOME RUN WIRING OR WIRING UP TO THE SWITCH. ANY WIRING DOWNSTREAM OF THE SWITCH IS SUBJECT TO REPLACEMENT/REARRANGEMENT. EC SHALL ALLOW FOR THIS IN THE BID PRICE.
19. ALL WIRING TO BE 1Ø12-1Ø12(N)+1Ø12(G)-3Ø14 EMT, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
20. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. ALL DEVICES & CONDUITS ON NEW CONSTRUCTION MUST BE RECESSED. FOR EXISTING SURFACES, MECHANICAL/WORK SPACES-CONDUITS MAY BE SURFACE MOUNTED. EXISTING PUBLIC/FINISHED AREAS- CONDUITS SHALL BE CONCEALED WHEREVER POSSIBLE (IN HUNG CEILINGS, VOIDS/CHASSES, FLOOR BELOW OR BEHIND WALLS) ALL WIRING THAT CANNOT BE CONCEALED IN MUST BE RUN IN FINISHED SURFACE RACEWAY SUCH AS WIREMOLD. COLOR PER ARCHITECT. USE OF ADHESIVE IS PROHIBITED. SURFACE RACEWAY MUST BE SECURED USING MECHANICALLY FASTENED CLIPS.
21. ANY LIGHT FIXTURES INSTALLED IN GYMNASIUMS OR OTHER AREAS SUBJECT TO IMPACT OR PHYSICAL DAMAGE SHALL BE MOUNTED WITH SAFETY CHAINS AND SECURED TO STRUCTURE.
22. SEE SPEC. SECTION 16100 BASIC MATERIALS AND METHODS FOR COMPLETE NOTES ON INSTALLATION, MISCELLANEOUS MATERIALS AND ELECTRICAL DEVICES.

DEMOLITION NOTES

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

FIRE STOP NOTES

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.
2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-636 TROWEL ABLE COMPOUND, AS SUITABLE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
4. FIRE STOP MATERIALS OTHER THAN HILT SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA POWER AND LIGHTING.

ABBREVIATIONS

A	.....	AMPERAGE OR AMPS
AC	.....	ALTERNATING CURRENT
ACT	.....	ABOVE COUNTER TOP
AFF	.....	ABOVE FINISHED FLOOR
ABG	.....	ABOVE FINISHED GRADE
BC	.....	BELOW CEILING
C	.....	CONDUIT
CB	.....	CIRCUIT BREAKER
CKT	.....	CIRCUIT
CM	.....	CEILING MOUNTED
DC	.....	DIRECT CURRENT
DH	.....	DOOR HOLDER
DISC	.....	DISCONNECT
EC	.....	ELECTRICAL CONTRACTOR
EM	.....	EMERGENCY
EMT	.....	ELECTRICAL METALLIC TUBING
ETR	.....	EXISTING TO REMAIN
EX	.....	EXISTING
FA	.....	FIRE ALARM
FMC	.....	FLEXIBLE METAL CONDUIT
FT	.....	FEET
GC	.....	GENERAL CONTRACTOR
GFCL, GFI	.....	GROUND FAULT CIRCUIT INTERRUPTER
G, GND	.....	GROUND
GRS	.....	GALVANIZED RIGID STEEL
HD	.....	HAND DRYER
IG	.....	ISOLATED GROUND
IN	.....	INCHES
KW	.....	KILOWATTS
LFMC	.....	LIQUID TIGHT FLEXIBLE METAL CONDUIT
MAX	.....	MAXIMUM
MC	.....	MECHANICAL CONTRACTOR
MCB	.....	MAIN CIRCUIT BREAKER
MDB	.....	MAIN DISTRIBUTION PANEL
MH	.....	MANHOLE
MIN	.....	MINIMUM
MLO	.....	MAIN LUG ONLY
MTD	.....	MOUNTED
MTH	.....	MOUNTING HEIGHT
N	.....	NEUTRAL
NEC	.....	NATIONAL ELECTRICAL CODE
NEMA	.....	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NIC	.....	NOT IN CONTRACT
NL	.....	NIGHT LIGHT
NTS	.....	NOT TO SCALE
PA	.....	PUBLIC ADDRESS
PC	.....	PLUMBING CONTRACTOR
PV	.....	PHOTOVOLTAIC
PVC	.....	POLYVINYL CHLORIDE
REC	.....	RECEPTACLE
REQ'D	.....	REQUIRED
RL	.....	RELOCATED
SCH	.....	SCHEDULE
SM	.....	SURFACE MOUNTED
SPD	.....	SURGE PROTECTIVE DEVICE
SQ	.....	SQUARE
SWB	.....	SWITCHBOARD
SWG	.....	STEEL WIRE GUARD
TSP	.....	TWISTED SHIELDED PAIR
TVSS	.....	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	.....	TYPICAL
UC	.....	UNDER COUNTER
UG	.....	UNDER GROUND
UTP	.....	UNSHIELDED TWISTED PAIR
UWS	.....	UNTWISTED
V	.....	VOLTAGE OR VOLTS
VFD	.....	VARIABLE FREQUENCY DRIVE
W	.....	WATTAGE OR WATTS
WG	.....	WIRE GUARD
WM	.....	WALL MOUNTED
WP	.....	WEATHER PROOF
XMR	.....	TRANSFORMER

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL. PROVIDE BUILDING SHATTERPROOF FRAMED SCHOOL GRAPHIC PAPER MAP WITHIN SIGHT OF PANEL.
	REMOTE ANNUNCIATOR PANEL. PROVIDE BUILDING SHATTERPROOF FRAMED SCHOOL GRAPHIC PAPER MAP WITHIN SIGHT OF PANEL.
	REMOTE COMMAND CENTER.
	MANUAL PULL STATION WITH STI STOPPER PROTECTIVE SHIELD WITHOUT ALARM (OR SIMILAR).
	SMOKE DETECTOR WITH BASE. CO = SMOKE AND CARBON MONOXIDE COMBINATION DETECTOR. LED = REMOTE LED INDICATOR.
	DUCT DETECTOR WITH HOUSING AND REMOTE LED INDICATOR.
	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE.
	HEAT DETECTOR. FIXED TEMPERATURE OF RISE UNLESS OTHERWISE NOTED. (NONE) = 135°F 195°F
	WALL MOUNT SPEAKER / STROBE NOTIFICATION DEVICE. THE STROBE CANDELA IS 15 cd UNLESS OTHERWISE INDICATED ON DRAWING.
	WALL MOUNT SPEAKER NOTIFICATION DEVICE.
	WALL MOUNT STROBE NOTIFICATION DEVICE. THE STROBE CANDELA IS 15 cd UNLESS OTHERWISE INDICATED ON DRAWING.
	CEILING MOUNT SPEAKER / STROBE NOTIFICATION DEVICE. THE STROBE CANDELA IS 15 cd UNLESS OTHERWISE INDICATED ON DRAWING.
	CEILING MOUNT SPEAKER NOTIFICATION DEVICE.
	CEILING MOUNT STROBE NOTIFICATION DEVICE. THE STROBE CANDELA IS 15 cd UNLESS OTHERWISE INDICATED ON DRAWING.
	ELECTROMAGNETIC HOLD OPEN DEVICE. VOLTAGE TO MATCH SYSTEM.
	FIRE ALARM RELAY.
	HOOD FIRE SUPPRESSION SYSTEM.

WIRING DEVICES LEGEND

SYMBOL	DESCRIPTION
	TAMPER-RESISTANT DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT DOUBLE DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT GROUND FAULT INTERRUPTED DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT SINGLE ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	TAMPER-RESISTANT SPECIAL PURPOSE SINGLE ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, 250V, NEMA 6-20R.
	TWIST-LOCK SINGLE ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, 125V, 30A, NEMA L5-30R.
	TAMPER-RESISTANT USB CHARGER DUPLEX ELECTRICAL OUTLET FOR CONVENIENCE POWER WITH 302/304 STAINLESS STEEL FACEPLATE, NEMA 5-20R.
	DATA & POWER SURFACE RACEWAY - NUMBER OF TRIANGLES INDICATES NUMBER OF DATA DROPS - PROVIDE (2) DUPLEX RECEPTACLES PER DATA DROP.
	POWER CORD REEL, NEMA 5-20R.
	FIRE RATED POWER FEED POKE-THROUGH.
	FLOOR BOX.
	MULTIPLE SERVICE WALL BOX.
	JUNCTION BOX, SIZE AS REQUIRED.
	MOTOR, HORSEPOWER AS INDICATED.
	UN-FUSED DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	HAND DRYER.
	PANEL.
	TRANSFORMER.
	SWITCH. LOWER CASE LETTER INDICATES SWITCHING DESIGNATION (UPPER CASE LETTER(S) OR NUMBER SUBSCRIPTS) (NONE) = SINGLE POLE, 20 A, HEAVY DUTY SPEC GRADE SWITCH. K = KEY SWITCH. D = DIMMER SWITCH. 3 = TREE WAY SWITCH. 4 = FOUR WAY SWITCH. MC = MOMENTARY CONTACT SWITCH. LV = LOW VOLTAGE BUTTON SWITCH. EF = COMMERCIAL GRADE EXHAUST FAN SWITCH.
	CEILING MOUNTED OCCUPANCY/VACANCY/ DAYLIGHT SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY, COMPLETE W/ POWER PACK(S) AS REQUIRED.
	WALL MOUNTED OCCUPANCY/VACANCY/ LOW VOLTAGE, DUAL TECHNOLOGY, COMPLETE W/ POWER PACK(S) AS REQUIRED.
	DUAL TECHNOLOGY SINGLE LEVEL OCCUPANCY SENSING WALL SWITCH.
	PHOTOCELL.
	ROOM CONTROLLER.
—	—

LIGHTING LEGEND

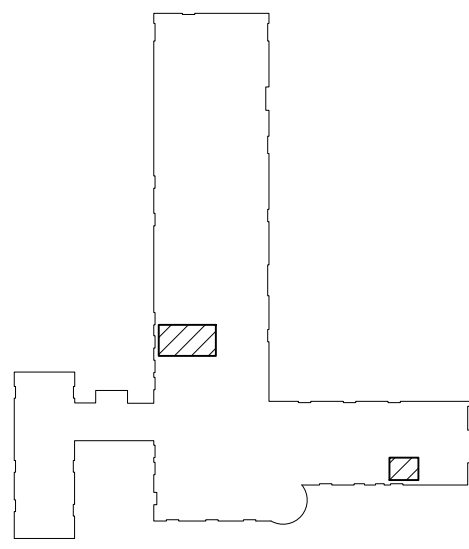
SYMBOL	DESCRIPTION
	Z X 4' RECESSED LIGHTING FIXTURE.
	Z X 4' RECESSED EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	Z X Z' RECESSED LIGHTING FIXTURE.
	Z X Z' RECESSED EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	1' X 4' RECESSED LIGHTING FIXTURE.
	1' X 4' RECESSED EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	Z X 4' SURFACE MOUNT LIGHTING FIXTURE.
	Z X 4' SURFACE MOUNT EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	Z X Z' SURFACE MOUNT LIGHTING FIXTURE.
	Z X Z' SURFACE MOUNT EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	1' X 4' SURFACE MOUNT LIGHTING FIXTURE.
	1' X 4' SURFACE MOUNT EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	1' X 4' PENDANT LIGHTING FIXTURE.
	1' X 4' PENDANT EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	RECESSED DOWN LIGHTING FIXTURE.
	RECESSED DOWN EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	SURFACE MOUNT DOWN LIGHTING FIXTURE.
	EXTERIOR WALL MOUNT LIGHTING FIXTURE.
	EXTERIOR POLE LIGHTING FIXTURE.
	EXIT SIGN.
	EMERGENCY WALL PACK LIGHTING FIXTURE.
	EXIT SIGN/EMERGENCY COMBO WALL PACK LIGHTING FIXTURE.

NOTE: SYMBOLS AND ABBREVIATIONS ON THIS DRAWING ARE FOR REFERENCE ONLY, AND MAY NOT BE USED IN THE FOLLOWING DOCUMENTS.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT  
GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE  
ELECTRICAL NOTES & LEGENDS

DRAWING BY: DG  
CHECK BY: ---

NOTICE

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BBS

ARCHITECTS  
LANDSCAPE ARCHITECTS  
ENGINEERS

244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205  
PATCHOGUE, NEW YORK 11772 | ALBANY, NEW YORK 12205  
T: 631.475.0349 | T: 618.621.7650  
F: 631.475.0361 | F: 618.621.7655

www.BBSARCHITECTURE.com

SED No:

66-04-07-06-0-011-008

DISTRICT:

GREENBURGH CSD

PROJECT:

PH 1 - DW CAP IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

DWG TITLE:

ELECTRICAL NOTES &  
LEGENDS

SCALE:

AS NOTED

DATE:

MAY 2022

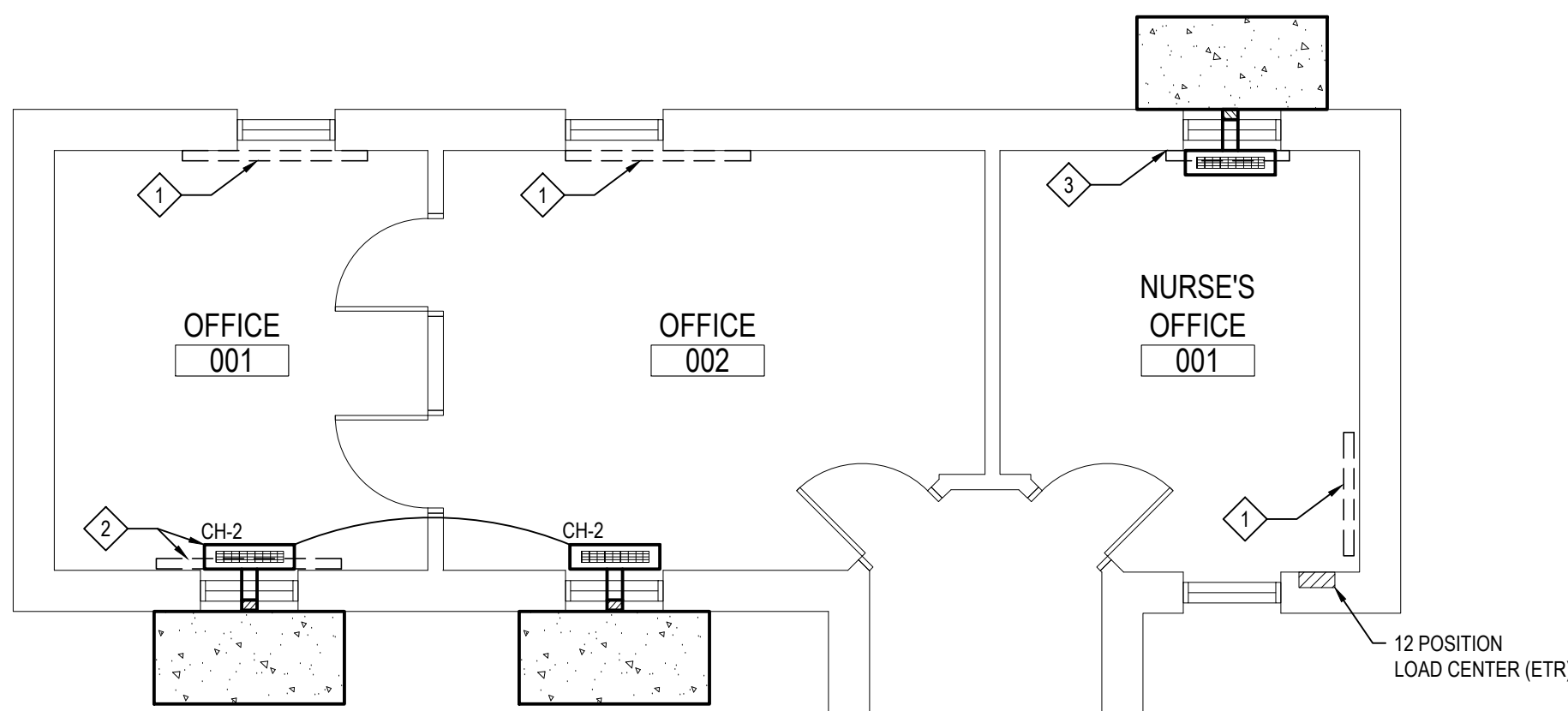
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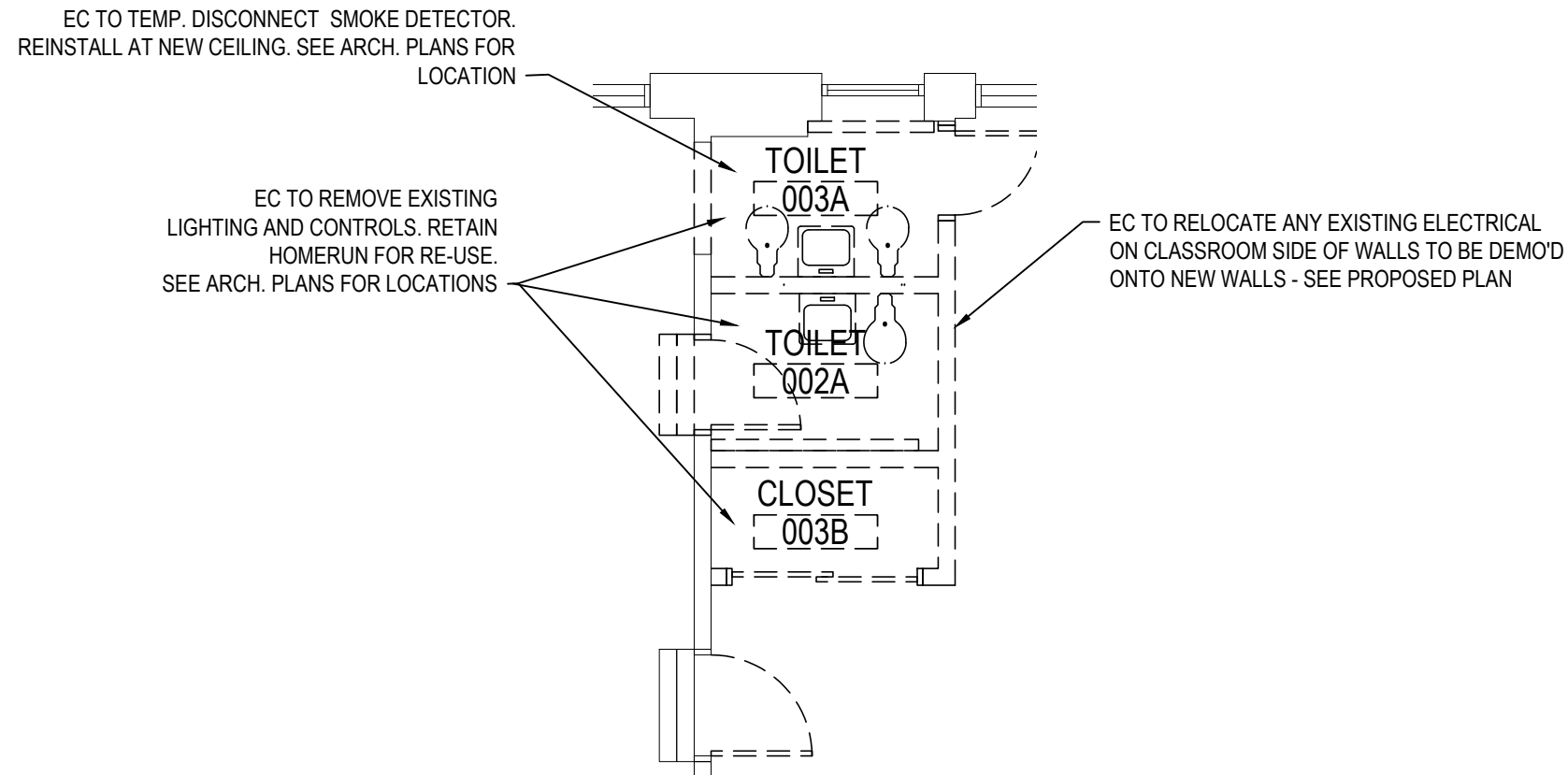
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1. PERMANENTLY DISCONNECT ELECTRIC BASEBOARD HEATER. REMOVE UNNECESSARY WIRING AND CONDUIT BACK TO SOURCE.
2. DISCONNECT EXIST. BASEBOARD HEATER. RETAIN WIRING FOR REUSE. RE-USE CIRCUIT AND EXTEND WIRING AS REQUIRED TO NEW CABINET HEATERS ON OFFICES 1 & 2.
3. DISCONNECT EXIST. BASEBOARD HEATER. RETAIN WIRING FOR REUSE. RE-USE CIRCUIT AND EXTEND WIRING AS REQUIRED TO NEW CABINET HEATERS ON OFFICE 3.
4. EXIST 4-CKT. FUSE BOX W/ SCREW-IN FUSES. REMOVE ALL COMPONENTS AND CONVERT TO SPICE BOX. PROVIDE BLANK SCREW ON COVER. TRANSFER EXISTING ACTIVE CIRCUITS TO NEW PANEL PP2 EXTENDING WIRING AND CONDUIT AS REQUIRED. MATCH WIRE AND FUSE SIZE. REMOVE UNNECESSARY WIRING BACK TO SOURCE.

**WORK IN OTHER DISTRICT BUILDINGS:**

1. WOODLANDS HIGH/MIDDLE SCHOOL:
  - 1.1 RE-INSTALL / SECURE HANGING HORN STROBE IN BOYS LOCKER ROOM
  - 1.2 REPLACE DAMAGED EMERGENCY LIGHT IN 2ND FLOOR BOYS ROOM. PROVIDE EMERGENCY LIGHT SURE LITE #CUL-LED OR EQUAL.
- 1.3 COORDINATE LOCATION WITH DISTRICT
2. LEE F. JACKSON ELEMENTARY SCHOOL:
  - 2.1 ADD EMERGENCY LIGHT TO KITCHEN. MODEL AS DESCRIBED ABOVE.
  - 2.2 ADD COMBO EXT/EMERGENCY LIGHT TO KITCHEN SURE-LITE #APC7RSO OR EQUAL.
  - 2.3 WIRE EACH TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
  - 2.4 COORDINATE LOCATIONS WITH DISTRICT.



**CLASSROOM 003 TOILETS -DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"

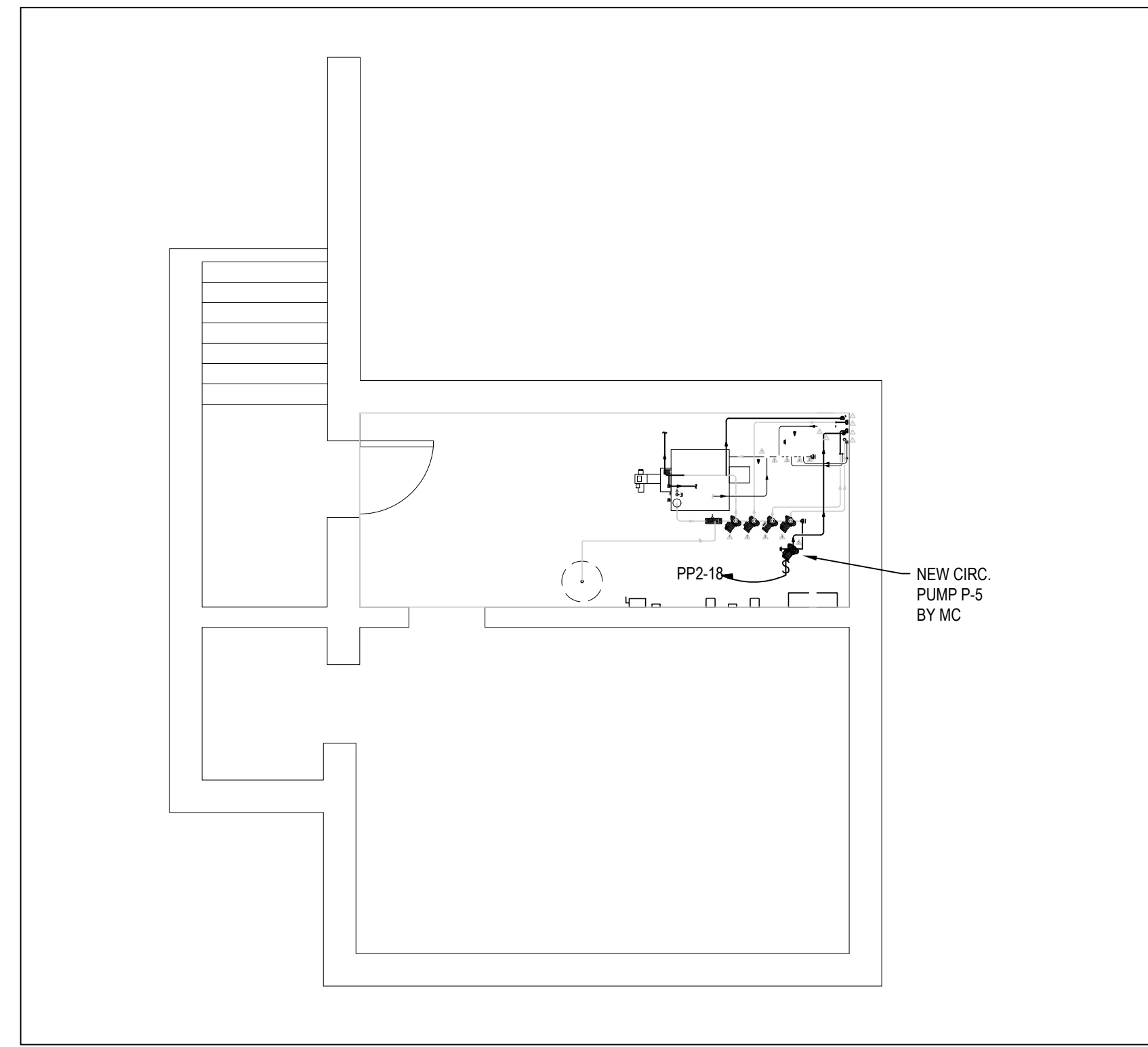
- LEGEND:**
- 2X2' LED RECESSED TROFFER  
3400 LUMEN, 3500K CCT  
METALUX CRUZ #22CZ-LD5-UNV-L835
  - WIRE TO EXIST. ROOM LTG CKT
  - UL924 EMERGENCY LIGHT W/  
90 MINUTE BATTERY
  - SURE LITE #CUL-LED
  - WIRE TO ROOM LTG CIRCUIT AHEAD  
OF ANY SWITCHING
  - \$ VAC WALL SWITCH PIR VACANCY SENSOR  
MOUNT 48" AFF

**PART. ELECTRICAL RISER**  
SCALE: NONE

PANEL BOARD		NAME: PP2	LOCATION: CLASSROOM 2				
TYPE: _____	BRANCH BREAKER TYPE: BOLT ON	NO. OF POLES: 30	BUS SIZE (A): 125A				
MIN AIC RATING (KA): 22K	NEUTRAL: 125A	MAIN CIRCUIT BREAKER: MLO					
MAIN LUGS: #4	VOLTS: 120/208V	PHASE: 3	# WIRES: 4				
MOUNTING: SURFACE	ENCL. TYPE: 1	DOOR REQ'D: LOCKABLE					
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): <input type="checkbox"/>	SPD RATING(KA): N/A	SUB-FEED LUGS: <input type="checkbox"/>	FEED-THRU LUGS: <input type="checkbox"/>				
SHUNT TRIP MAIN: <input type="checkbox"/>	ASCO SWITCH: <input type="checkbox"/>	ISOLATED GROUND: <input type="checkbox"/>					
CKT. #	DESIGNATION	WIRE SIZE	CKT. BRKR.	LOAD	WIRE SIZE	DESIGNATION	CKT. #
1	EXISTING LOAD	12	20	A	20	EXISTING LOAD	2
3	EXISTING LOAD	12	20	B	20	EXISTING LOAD	4
5	EXISTING LOAD	12	20		20	EXISTING LOAD	6
7	EXISTING LOAD	12	20		20	EXISTING LOAD	8
9	CLASSROOM 3 & 4 UV'S	12	15		15	CLASSROOM 2 UV	10
11	CLASSROOM 2 & 3 TLT. EXH. FANS	12	15		15	ROOMS 002A & 002B CUHS	12
13	CLASSROOM 1 UV	12	15		15	CLASSROOM 1 TLT. EXH. FAN	14
15	HAND DRYER - TLT. 002	12	20		20	HAND DRYER - TLT. 003	16
17	HAND DRYER - TLT. 001	12	20		20	CIRC. PUMP P-S	18
19	SPARE		20		20	SPARE	20
21							22
23							24
25							26
27							28
29							30

(1)- REPRESENTS LOAD TRANSFERRED FROM EXISTING FUSE BOX  
VERIFY & MATCH EXISTING FUSE SIZE

(\*) - REPRESENTS LOAD TRANSFERRED FROM EXISTING FUSE BOX  
VERIFY & MATCH EXISTING FUSE SIZE



**BASEMENT POWER PLAN**  
SCALE: 3/16" = 1'-0"

REV.	DATE	ITEM

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**KEY PLAN**

NOT TO SCALE

**PROJECT**

GREENBURGH CENTRAL SCHOOL DISTRICT  
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM  
HARTSDALE, NEW YORK - WESTCHESTER COUNTY

**DWG TITLE**

ELECTRICAL PLANS

**DRAWING BY:** DG  
**CHECK BY:**

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**BBS**  
ARCHITECTS  
LANDSCAPE ARCHITECTS  
ENGINEERS

244 EAST MAIN STREET  
PATCHOGUE  
NEW YORK 11772  
T. 631.475.0349  
F. 631.475.0361

187 WOLF ROAD, STE. 205  
ALBANY  
NEW YORK 12205  
T. 518.621.7650  
F. 518.621.7655

www.BBSARCHITECTURE.com

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**DISTRICT:** GREENBURGH CSD

**PROJECT:** PH I - DW CAP IMPROVEMENTS  
EARLY CHILDHOOD PROGRAM

**DWG TITLE:** ELECTRICAL PLANS

**SCALE:** AS NOTED  
**DATE:** MAY 2022  
**BID PICK-UP:** MAY 27, 2022  
**FILE No:** 21-292

**E4.01E**