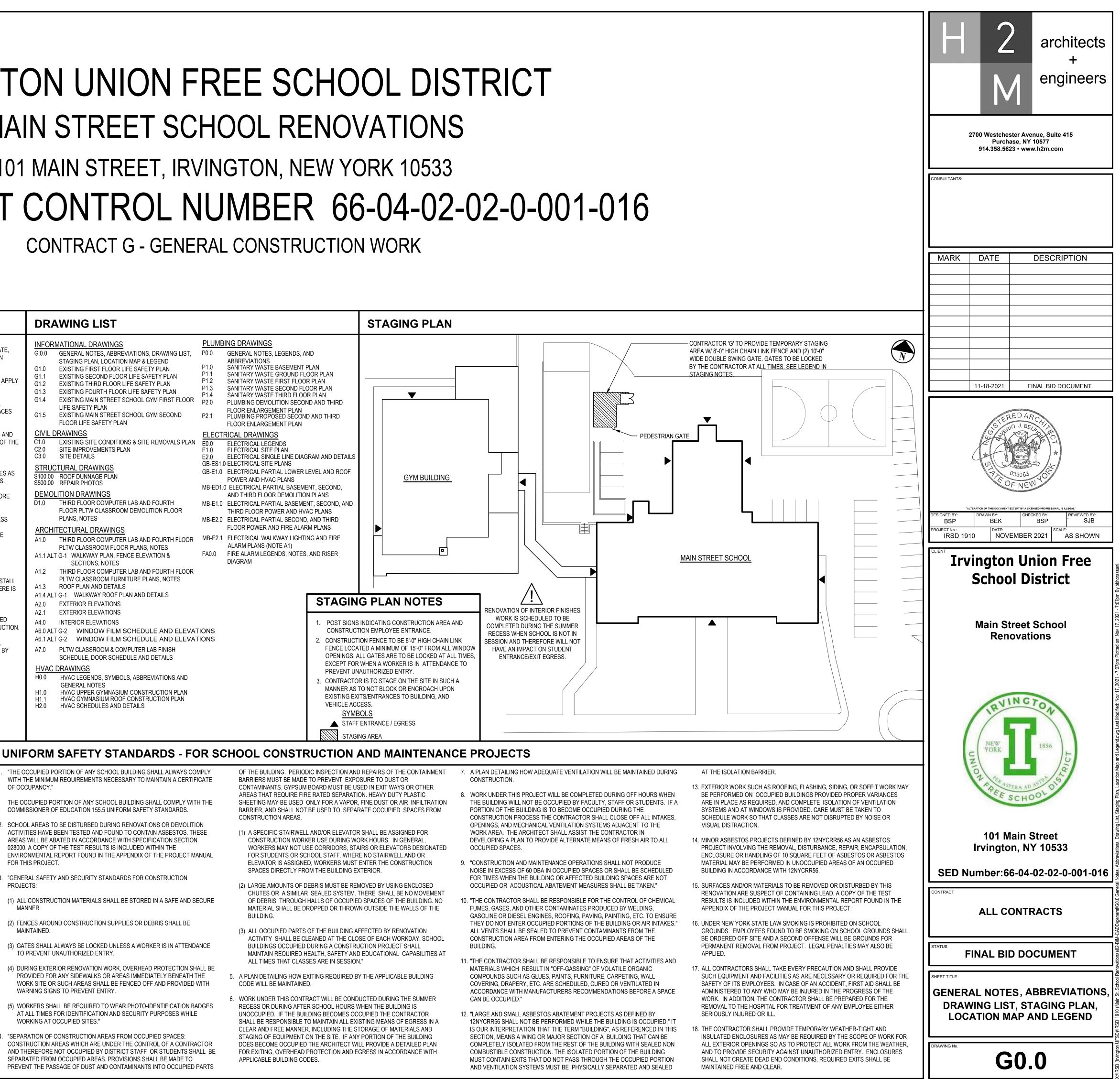
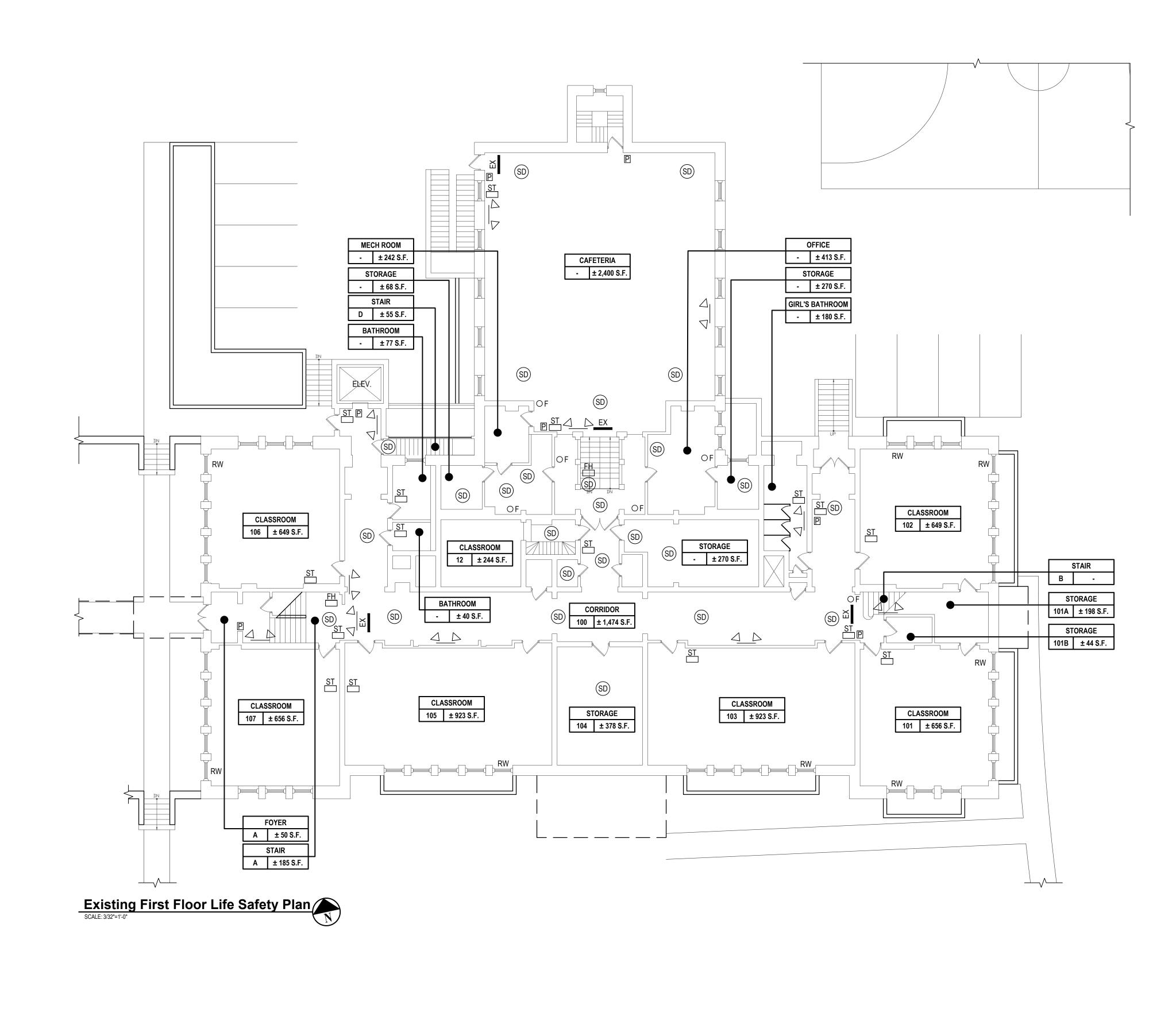
# **IRVINGTON UNION FREE SCHOOL DISTRICT** MAIN STREET SCHOOL RENOVATIONS 101 MAIN STREET, IRVINGTON, NEW YORK 10533 SED PROJECT CONTROL NUMBER 66-04-02-02-0-001-016 **CONTRACT G - GENERAL CONSTRUCTION WORK**

### **ABBREVIATIONS GENERAL NOTES** ALL WORK SHALL COMPLY WITH THE 2020 BUILDING CODE OF NEW YORK STATE G.0.0 2020 FIRE CODE OF NEW YORK STATE AND THE NEW YORK STATE EDUCATION Anchor Bolt DEPARTMENT MANUAL OF PLANNING STANDARDS. Air Conditioning Fire Retardent ACI ACST ACT ACU AD FTG American Concrete Institute Footing G1.1 GΑ Acoustic ALL NOTES APPEARING HEREIN, WITH THOSE ON VARIOUS DRAWINGS SHALL APPLY Gauge G1.2 GWB GYP Acoustical Ceiling Gypsum Wall Board TO ALL DRAWINGS AND FORM PART OF THE CONTRACT DOCUMENTS. Air Conditioning Ŭ G1.3 Sypsum Access Doo GYP. BD Gypsum Board G1.4 ADJ IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL DIMENSIONS, Adiustable Handicapped A/E AFF SQUARE FOOTAGES, LOCATIONS AND QUANTITIES OF ALL ITEMS AND/OR SPACES Architect/Engine Hollow Metal G1.5 WHETHER INDICATED IN THE DRAWINGS OR NOT Above Finish Floo Horizontal ALUM ANCH ANSI APA APPROX Aluminum HW Hot Water Anchor INSUL Insulation/Insulatin CIVIL DRAWINGS DO NOT SCALE MEASURE ANY DRAWING. VERIFY THE FIGURES. DIMENSIONS AND American National Star Interior DESIGN INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE C1.0 Access Pane Lavatory WORK AND REPORT ANY ERRORS, INACCURACIES, OR CONFLICTS TO THE Approximatel C2.0 Leader ASPH Asphalt ARCHITECT/ENGINEER IN WRITING BEFORE BEGINNING ANY WORK. Light ASTM American Society f MAX Maximum Testing & Materials MECH AWS Mechanical ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND STATUTES AS American Welding Socie MISC MO Fire Blanket Miscellaneous REQUIRED. STRICTLY ADHERE TO MANUFACTURER'S PRINTED INSTRUCTIONS. Balance Masonry Opening Bulletin Board MR Moisture Resistan VERIFY EXACT LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE Board NIC Not in Contract BLDG **BEGINNING WORK.** Building NTS Not to Scale Block On Center BLKG Blocking Outside Diameter DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY RENOVATION, UNLESS PLYWD Plywood NOTED OTHERWISE. PROTECT ALL OTHER AREAS. CONTRACTORS SHALL BE Bottom Of PSF Pounds per Square Foo BOL BOT RESPONSIBLE FOR ALL PATCH AND REPAIR OF EXISTING FINISHES WHICH AR Bottom Of Lint Pounds per Square Inch DAMAGED DURING CONSTRUCTION Bottom Painted CEIL CEN Ceiling Polyvinyl Chloride Cemen EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ANSI AND Radius or Riser Reflected Ceiling Plan Roof Drain Cerami PROVIDE WHERE APPLICABLE ADA COMPLIANT BUILDING COMPONENTS. CLO CMU COL Closet Concrete Masonry Unit REINF RM Reinforced THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL Column CONC CONS CONT CORR CPT RÖ SIM SPEC SQ EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES SO LONG AS THERE IS Rough Opening Concrete Construction NOT A CONFLICT WITH THE CONTRACTORS. Continuous Specifications Corridor Square THE CONTRACTOR SHALL MAINTAIN AT THE SITE ONE RECORD COPY OF ALL Carpet Stainless Steel SS DRAWINGS, SPECIFICATIONS AND APPROVED SHOP DRAWINGS AND APPROVED DS Downspout STL Steel DW DWG TEMP TER THK TYP UTIL SAMPLES MARKED CURRENTLY TO RECORD ALL CHANGES DURING CONSTRUCTION. Dishwashe Temperature Drawing Terrazzo EA Each Thick ANY CHANGES TO THE SCOPE OF WORK OR IN THE CONSTRUCTION DETAILS, Elevation Typical WHETHER DUE TO FIELD CONDITIONS OR OMISSION SHALL BE DOCUMENTED BY Electric/Electrical Utility THE ARCHITECT PRIOR TO EXECUTION. ANY INCREASE OR DECREASE IN THE Elevator VB VCT VERT Vapor Barrier CONTRACT PRICE MUST BE APPROVED IN WRITING PRIOR TO EXECUTION. Electrical Panel HVAC DRAWINGS Vinyl Composition Tile EPY Epoxy Coating Vertical H0.0 VTR WC Vent Thru Roof EQUIP Equipment EXIST EXST Water Closet Existing Exhaust H1.0 WH WWF Water Heater H1 1 Welded Wire Fabric FAI Fresh Air Intake H2.0 Fire Code FD Floor Drain SYMBOLS LEGEND LOCATION MAPS NAME ROOM DESIGNATION OF OCCUPANCY." GYPSUM NO. S.F. SOUTH HUNTINGTON LOCAL MAP CONCRETE 3 A4.2 N SECTION MARK AGGREGATE SUB-BASE EARTH DETAIL SYMBOL A2.0 FOR THIS PROJECT. BATT INSULATION PROJECTS: 3 A4.2 Irvington ELEVATION KEY PLYWOOD MANNER RIGID INSULATION INTERIOR ELEVATION MAINTAINED. REFERENCE LOCATION STEEL ELEVATION LINE WOOD REVISION $\overline{\phantom{a}}$ PARTITION TYPE WORKING AT OCCUPIED SITES." DOOR TAG WINDOW TAG



- ACTIVITIES HAVE BEEN TESTED AND FOUND TO CONTAIN ASBESTOS. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 028000. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE
- TO PREVENT UNAUTHORIZED ENTRY.
- PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
- AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE
- "SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES: CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO

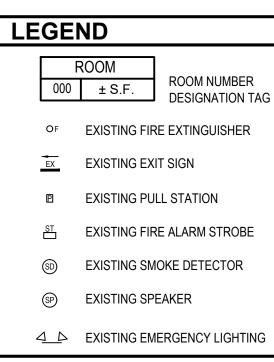


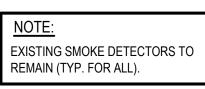
BUILDING OCCUPANCY CONSTRUCTION CLASSIF

HEIGHT (STORIES) HEIGHT (FEET)

NOTES:

1. EDUCATIONAL GROUP 'E' OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.





## 2020 BUILDING CODE OF NEW YORK STATE (NYS CODE TABLE 504.3, 504.4)

	ALLOWED	EXISTING
	EDUCATIONAL (GROUP E)	EDUCATIONAL (GROUP E)
FICATION	IIIB	IIIB
	2 STORIES	
	55 FEET	N/A (NO CHANGE)

FA EXISTING FIRE ALARM PANEL

RW EXISTING RESCUE WINDOW

AUTOMATED EXTERNAL DEFIBRILLATOR (AED)

(FB) EXISTING ALARM BELL

EVE WASH STATION

EXISTING FIRE HOSE

EXISTING CARBON MONOXIDE DETECTOR

EMERGENCY FIRE BLANKET

(SH) EXISTING SPRINKLER HEAD

AED

B

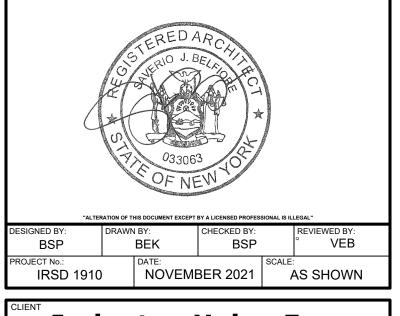
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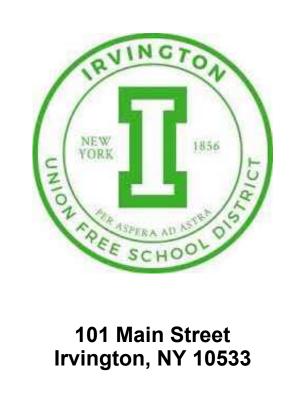
ONSULTANTS:

MARK	DATE	DESCRIPTION
1		
	11-18-2021	FINAL BID DOCUMENT



## **Irvington Union Free School District**

Main Street School Renovations



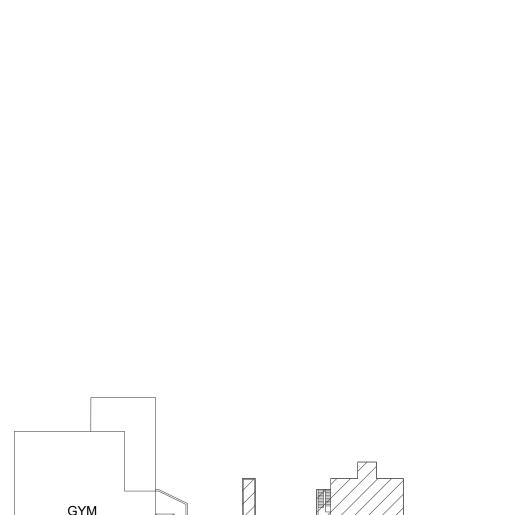
SED Number:66-04-02-02-0-001-016

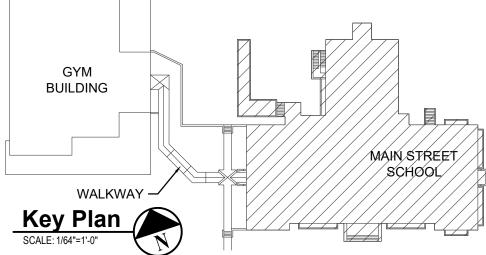
ALL CONTRACTS

FINAL BID DOCUMENT

## SHEET TITLE

**EXISTING FIRST FLOOR** LIFE SAFETY PLAN

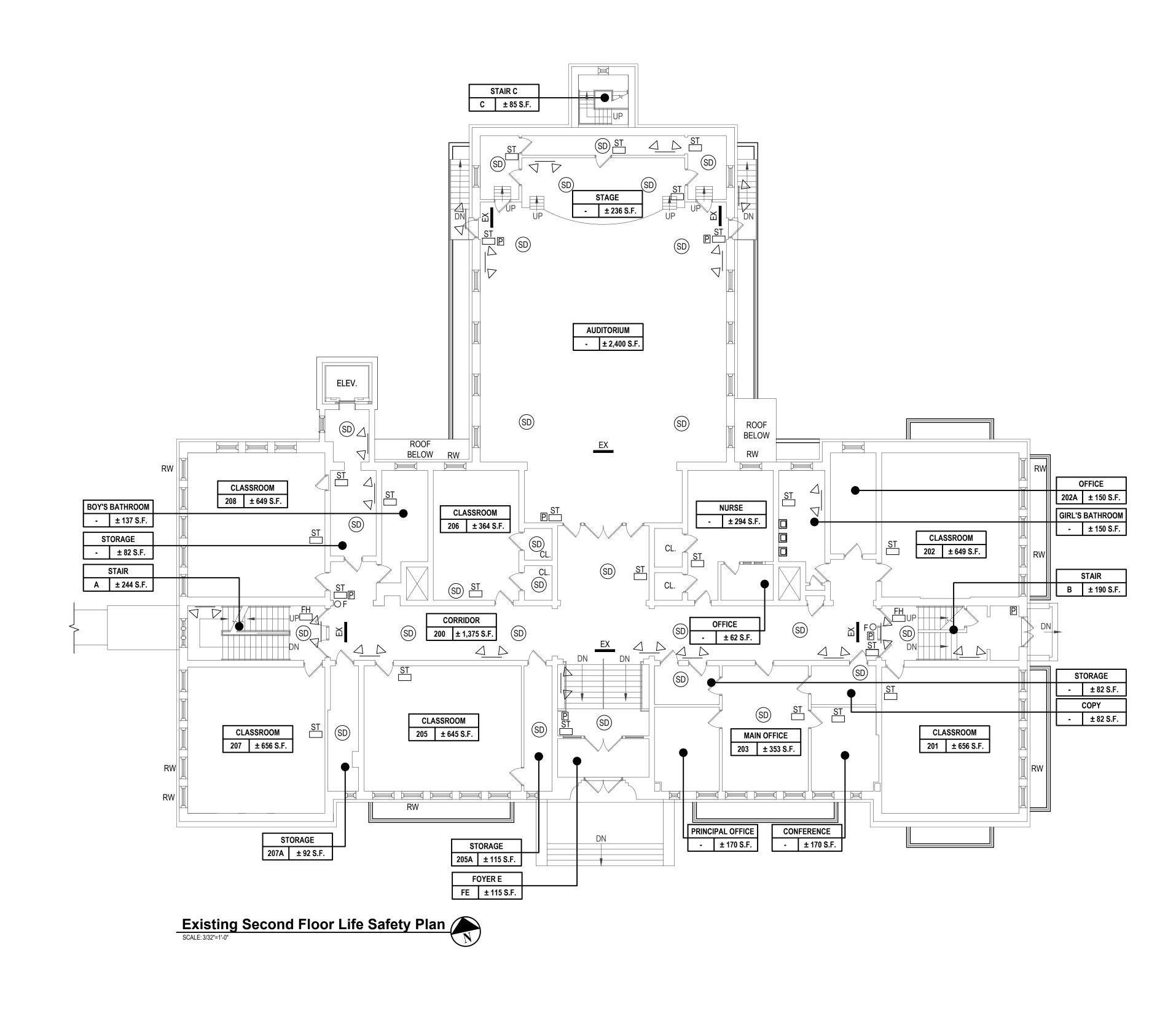




G1.0

ROOM NUMBER

DESIGNATION TAG

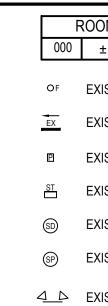


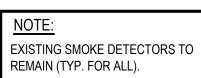


	ALLOWED	EXISTING
BUILDING OCCUPANCY	EDUCATIONAL (GROUP E)	EDUCATIONAL (GROUP E)
CONSTRUCTION CLASSIFICATION	IIIB	IIIB
HEIGHT (STORIES)	2 STORIES	
HEIGHT (FEET)	55 FEET	N/A (NO CHANGE)

NOTES:



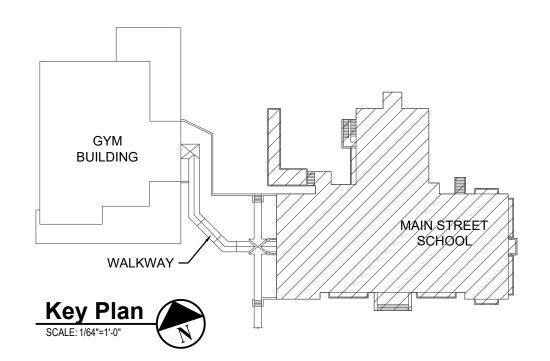




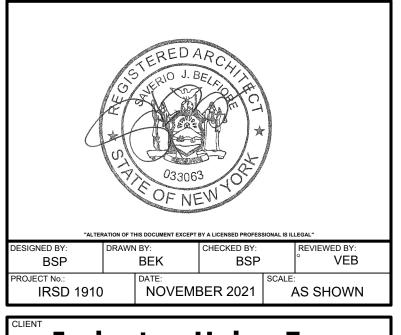
## 2020 BUILDING CODE OF NEW YORK STATE (NYS CODE TABLE 504.3, 504.4)

### . EDUCATIONAL GROUP 'E' OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.

D			
OM ± S.F.	ROOM NUMBER		EXISTING FIRE ALARM PANEL
I J.F.	DESIGNATION TAG	RW	EXISTING RESCUE WINDOW
	REEXTINGUISHER	AED	AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
XISTING EX	IT SIGN	FB	EXISTING ALARM BELL
		CM O	EXISTING CARBON MONOXIDE DETECTOR
	RE ALARM STROBE	EW	EYE WASH STATION
XISTING SN	10KE DETECTOR	в	EMERGENCY FIRE BLANKET
XISTING SF	PEAKER	SH	EXISTING SPRINKLER HEAD
	IERGENCY LIGHTING	FH	EXISTING FIRE HOSE

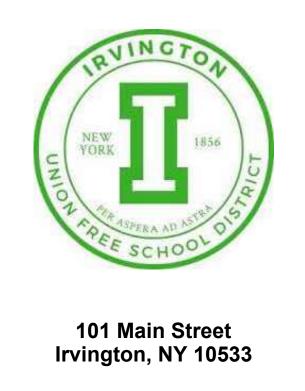


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## **Irvington Union Free School District**

Main Street School Renovations



SED Number:66-04-02-02-0-001-016

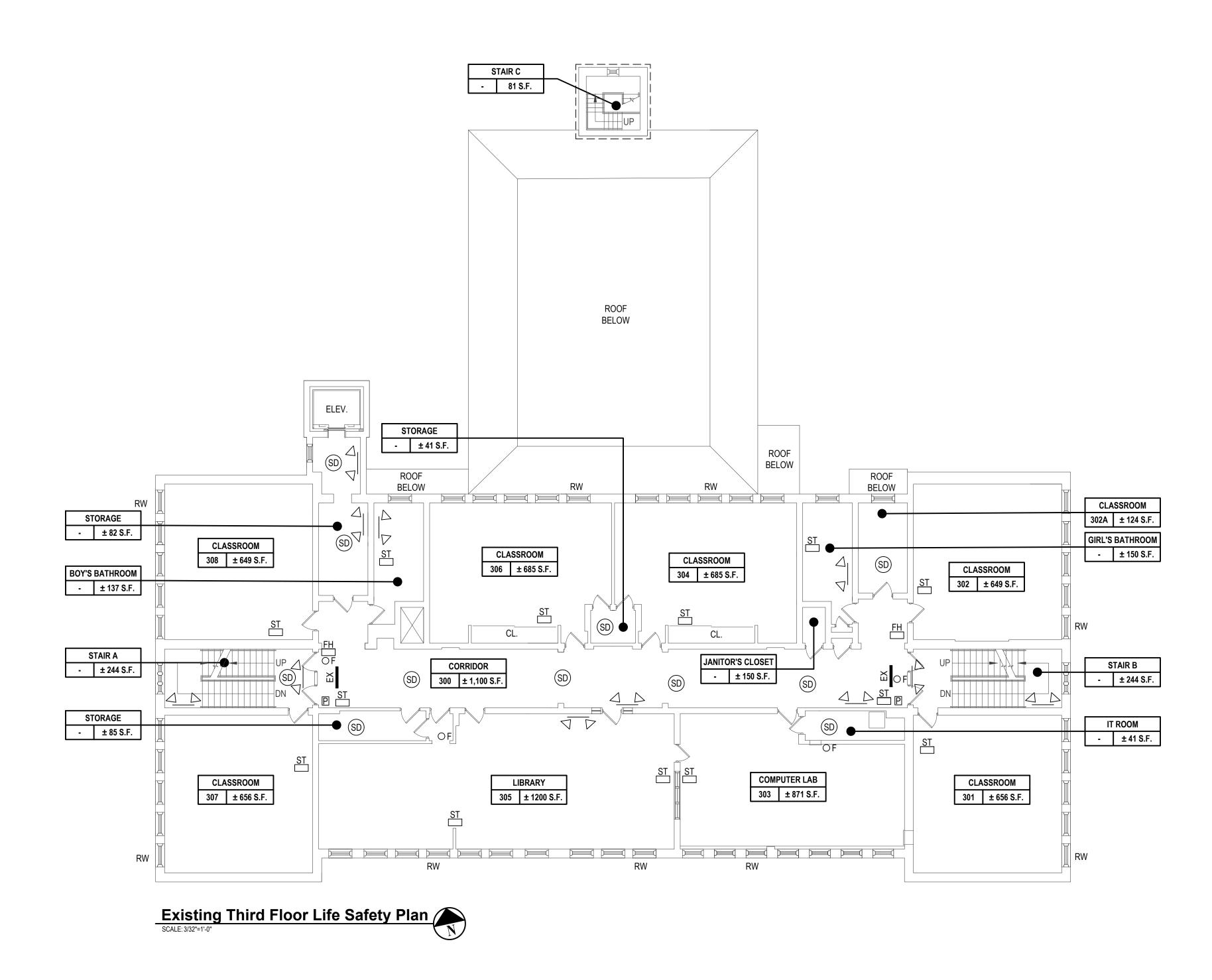
ALL CONTRACTS

FINAL BID DOCUMENT

### SHEET TITLE

**EXISTING SECOND FLOOR** LIFE SAFETY PLAN

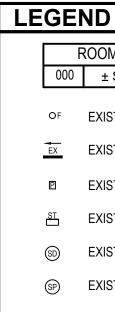
# G1.1

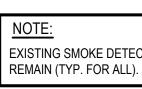


## 2020 BUILDING CODE OF NEW YORK STATE (NYS CODE TABLE 504.3, 504.4)

	ALLOWED	EXISTING
BUILDING OCCUPANCY	EDUCATIONAL (GROUP E)	EDUCATIONAL (GROUP E)
CONSTRUCTION CLASSIFICATION	IIIB	IIIB
HEIGHT (STORIES)	2 STORIES	
HEIGHT (FEET)	55 FEET	N/A (NO CHANGE)

NOTES:

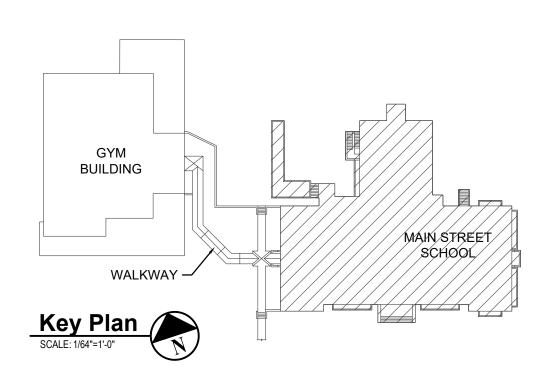


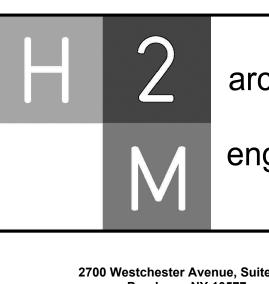


1. EDUCATIONAL GROUP 'E' OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.

000	ROOM ± S.F. ROOM NUMBER	FA	EXISTING FIRE ALARM PANEL
		RW	EXISTING RESCUE WINDOW
OF	EXISTING FIRE EXTINGUISHER	AED	AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
EX	EXISTING EXIT SIGN	FB	EXISTING ALARM BELL
P	EXISTING PULL STATION	CM	EXISTING CARBON
ST	EXISTING FIRE ALARM STROBE	U	MONOXIDE DETECTOR
-		EW	EYE WASH STATION
SD	EXISTING SMOKE DETECTOR	ß	EMERGENCY FIRE BLANKET
SP	EXISTING SPEAKER		
_		SH	EXISTING SPRINKLER HEAD
<u> </u>	EXISTING EMERGENCY LIGHTING	ĒH	EXISTING FIRE HOSE

## EXISTING SMOKE DETECTORS TO



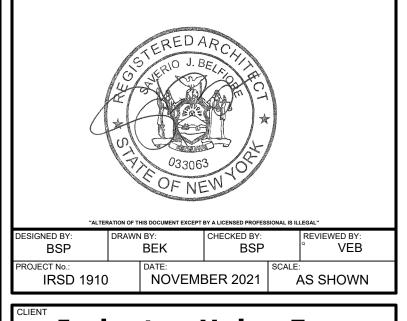


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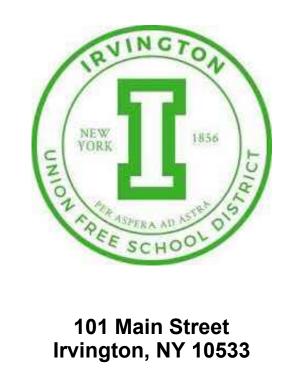
## CONSULTANTS:

MARK	DATE	DESCRIPTION
	11-18-2021	FINAL BID DOCUMENT



## **Irvington Union Free School District**

Main Street School Renovations



SED Number:66-04-02-02-0-001-016

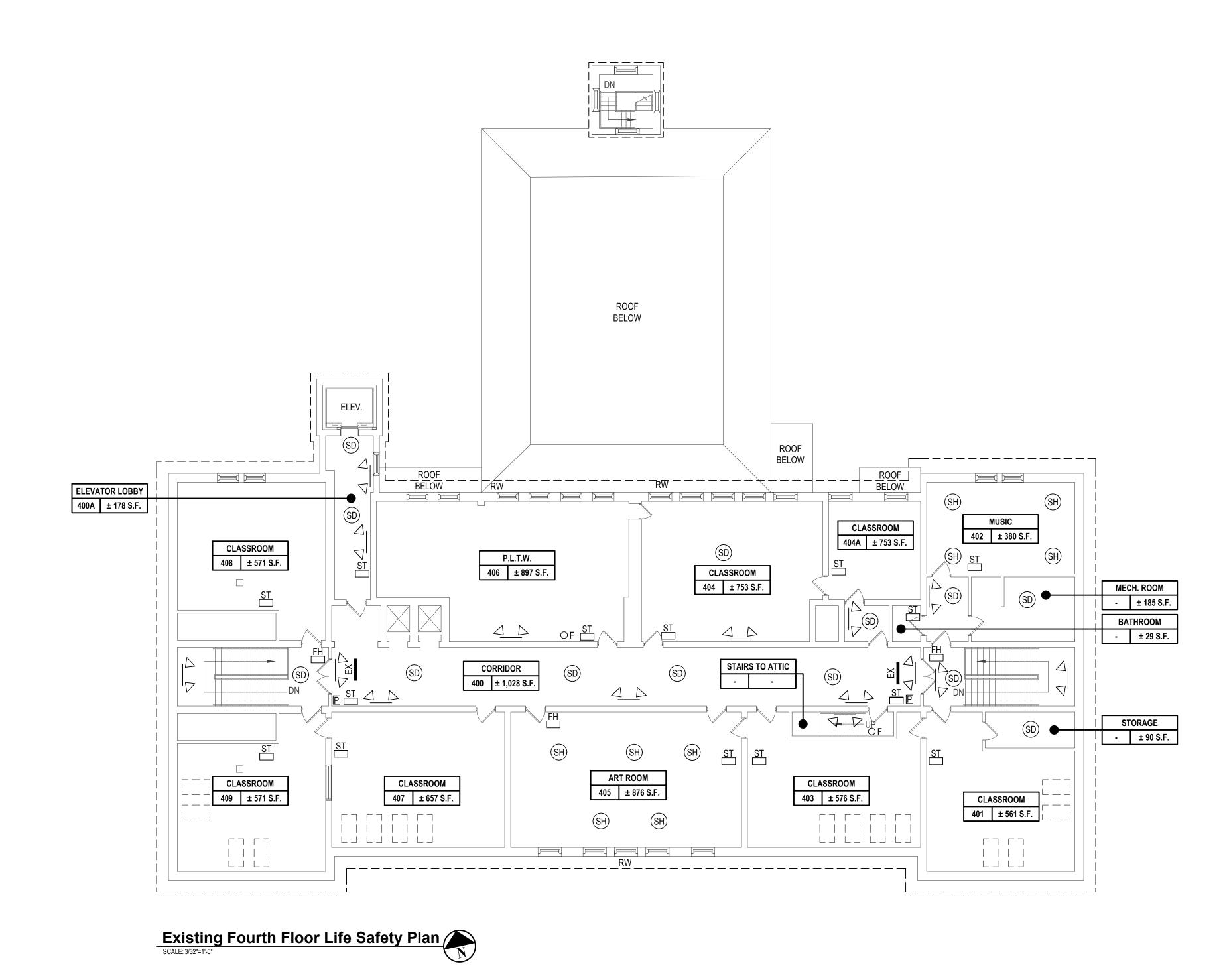
## ALL CONTRACTS

FINAL BID DOCUMENT

### SHEET TITLE

**EXISTING THIRD FLOOR** LIFE SAFETY PLAN

G1.2

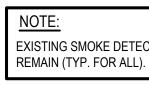


## 2020 BUILDING CODE OF NEW YORK STATE (NYS CODE TABLE 504.3, 504.4)

	ALLOWED	EXISTING
BUILDING OCCUPANCY	EDUCATIONAL (GROUP E)	EDUCATIONAL (GROUP E)
CONSTRUCTION CLASSIFICATION	IIIB	IIIB
HEIGHT (STORIES)	2 STORIES	
HEIGHT (FEET)	55 FEET	N/A (NO CHANGE)

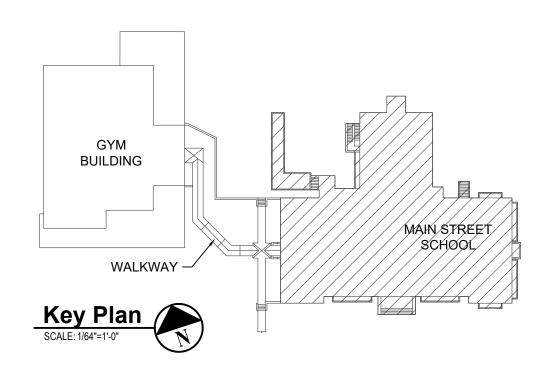
NOTES:

LEGE	ND		
000	ROOM ± S.F. DESIGNATION TAG	FA	EXISTING FIRE ALARM PANEL
	DESIGNATION TAG	RW	EXISTING RESCUE WINDOW
OF		<u>AED</u>	AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
EX	EXISTING EXIT SIGN	FB	EXISTING ALARM BELL
P	EXISTING PULL STATION	CM	EXISTING CARBON MONOXIDE DETECTOR
	EXISTING FIRE ALARM STROBE	(W)	EYE WASH STATION
SD	EXISTING SMOKE DETECTOR	ڪ ٿ	EMERGENCY FIRE BLANKET
SP	EXISTING SPEAKER	(SH)	EXISTING SPRINKLER HEAD
<u> </u>	EXISTING EMERGENCY LIGHTING	태	EXISTING FIRE HOSE



1. EDUCATIONAL GROUP 'E' OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.

EXISTING SMOKE DETECTORS TO



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MARK	DATE		DESCRIPTION	
	11-18-2021	FI	NAL BID DOCUMENT	
-ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL*         DESIGNED BY:       DRAWN BY:       CHECKED BY:       REVIEWED BY:         BSP       BEK       BSP       ° VEB         PROJECT NO:       DATE:       SCALE;				
IRSD 1910 NOVEMBER 2021 AS SHOWN CLIENT Irvington Union Free				
Irvington Union Free School District Main Street School Renovations				
UNION AMA ASPERA AD ASTRA DIS				
	101 N Irvingto	lain S	Street	
SED N	umber:6	6-04-	02-02-0-001-016	
CONTRACT				

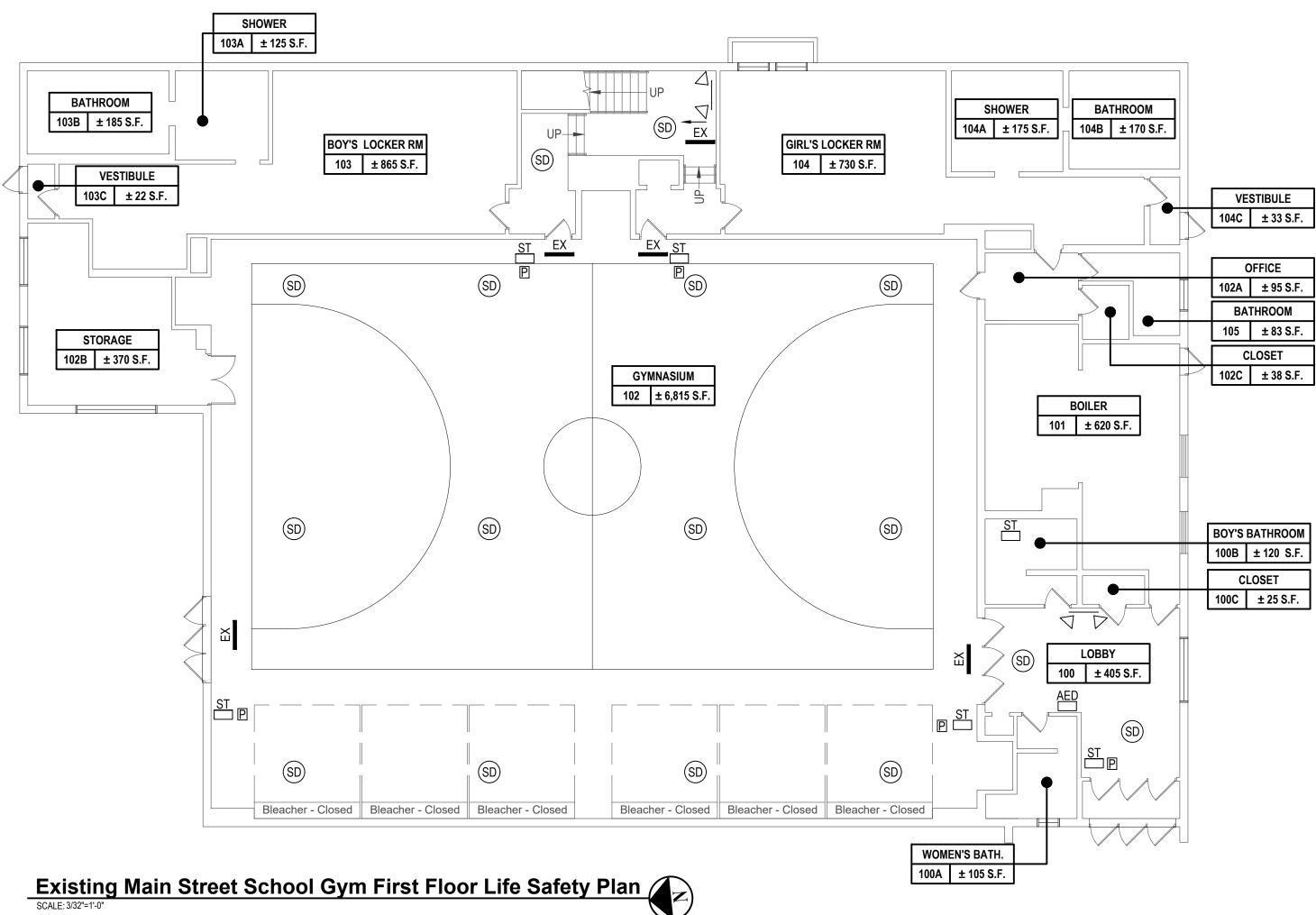
FINAL BID DOCUMENT

ALL CONTRACTS

### SHEET TITLE

**EXISTING FOURTH FLOOR** LIFE SAFETY PLAN

# G1.3



### 2020 BUILDING CODE OF NEW YORK STATE (NYS CODE TABLE 504.3, 504.4) ALLOWED EXISTING

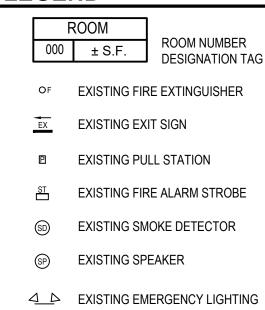
	ALLOWED	EXISTING
BUILDING OCCUPANCY	EDUCATIONAL (GROUP E)	EDUCATIONAL (GROUP E)
CONSTRUCTION CLASSIFICATION	IIB	IIB
HEIGHT (STORIES)	2 STORIES	2 STORIES
HEIGHT (FEET)	55 FEET	27 FEET

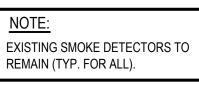
ROOM NUMBER

DESIGNATION TAG

NOTES: 1. EDUCATIONAL GROUP 'E' OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.

## LEGEND





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ONSULTANTS:

FA EXISTING FIRE ALARM PANEL

RW EXISTING RESCUE WINDOW

AUTOMATED EXTERNAL DEFIBRILLATOR (AED)

EXISTING CARBON MONOXIDE DETECTOR

EMERGENCY FIRE BLANKET

EYE WASH STATION

(SH) EXISTING SPRINKLER HEAD

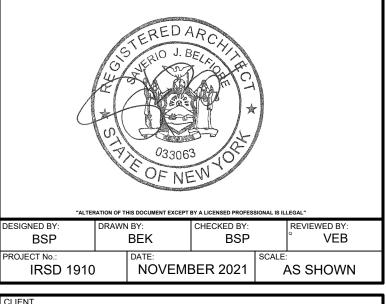
(FB) EXISTING ALARM BELL

<sup>CM</sup>

EW

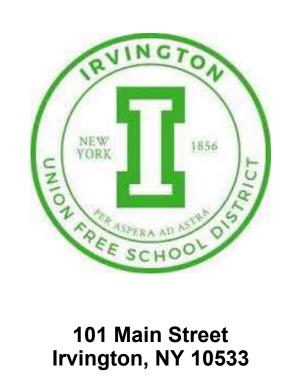
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MARK	DATE	DESCRIPTION
	11-18-2021	FINAL BID DOCUMENT



## **Irvington Union Free School District**

Main Street School Renovations



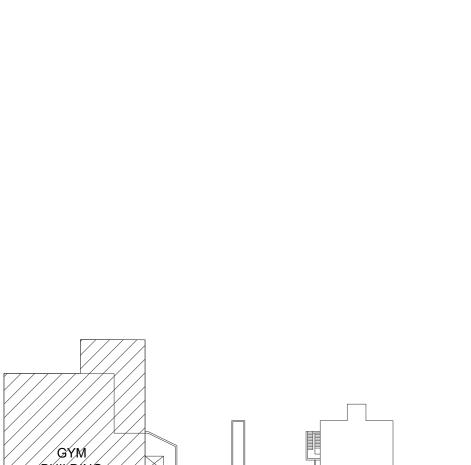
SED Number:66-04-02-02-0-001-016

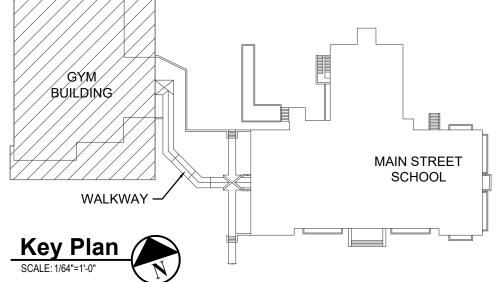
ALL CONTRACTS

FINAL BID DOCUMENT

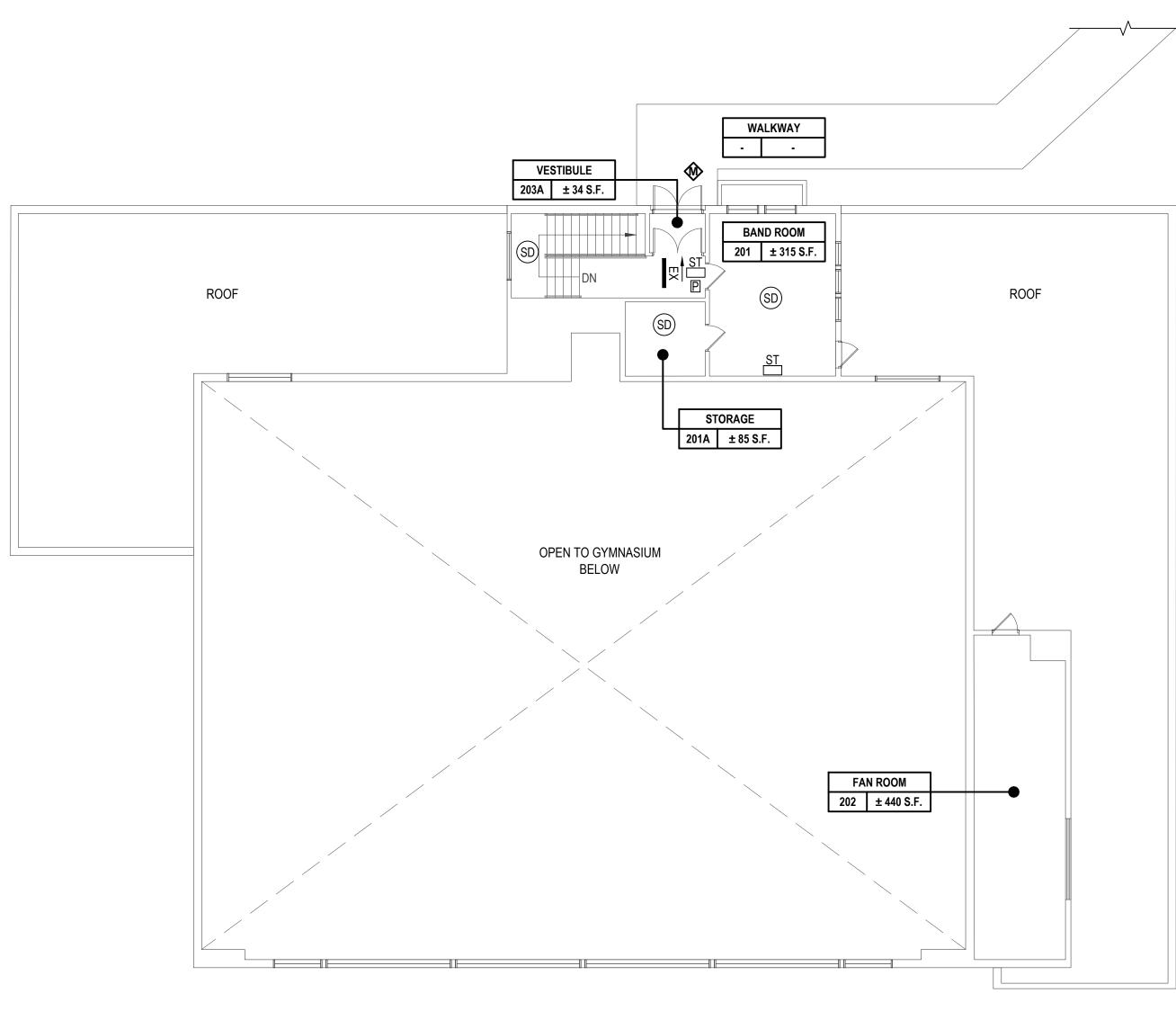
SHEET TITLE

EXISTING MAIN STREET SCHOOL GYM FIRST FLOOR LIFE SAFETY PLAN







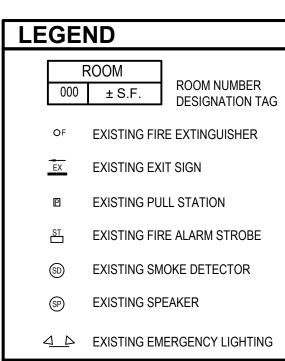


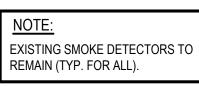
Existing Main Street School Gym Second Floor Life Safety Plan

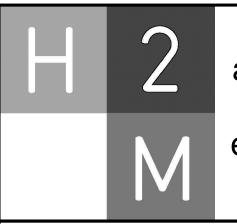
2020 BUILDING CODE OF NEW YORK STATE (NYS CODE TABLE 504.3, 504.4)			
	ALLOWED	EXISTING	
BUILDING OCCUPANCY	EDUCATIONAL (GROUP E)	EDUCATIONAL (GROUP E)	
CONSTRUCTION CLASSIFICATION	IIB	IIB	
HEIGHT (STORIES)	2 STORIES	2 STORIES	
HEIGHT (FEET)	55 FEET	27 FEET	

### NOTES:

1. EDUCATIONAL GROUP 'E' OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.





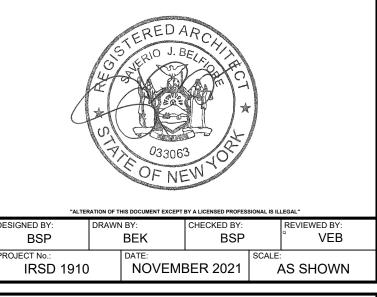


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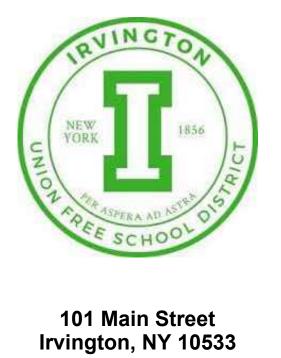
ONSULTANTS:

MARK	DATE	DESCRIPTION
	11-18-2021	FINAL BID DOCUMENT



# Irvington Union Free School District

Main Street School Renovations



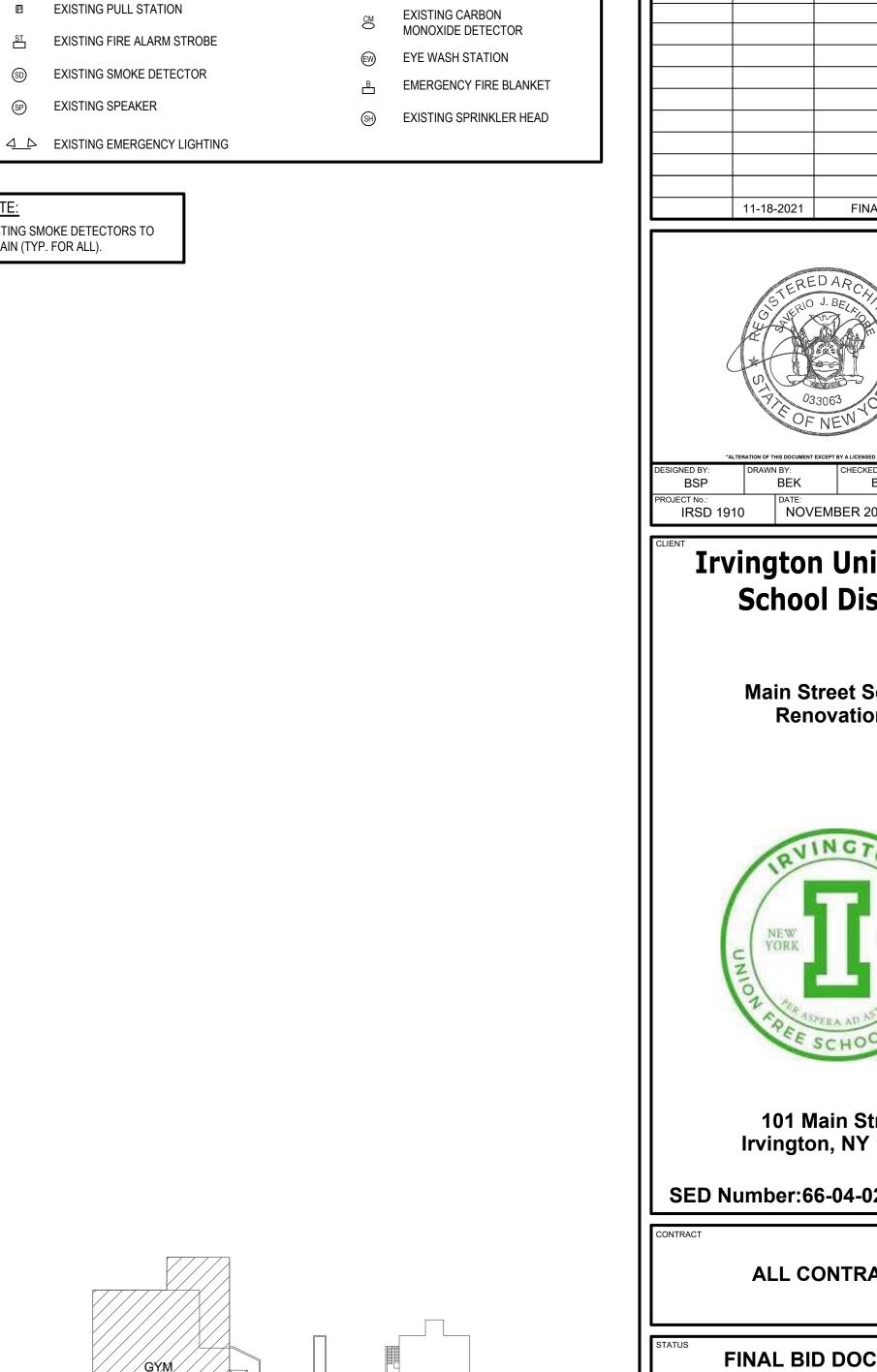
SED Number:66-04-02-02-0-001-016

ALL CONTRACTS

FINAL BID DOCUMENT

SHEET TITLE

EXISTING MAIN STREET SCHOOL GYM SECOND FLOOR LIFE SAFETY PLAN



FA EXISTING FIRE ALARM PANEL

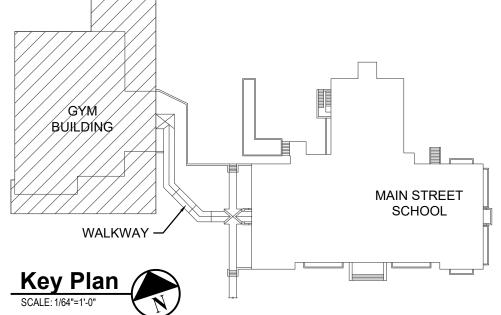
RW EXISTING RESCUE WINDOW

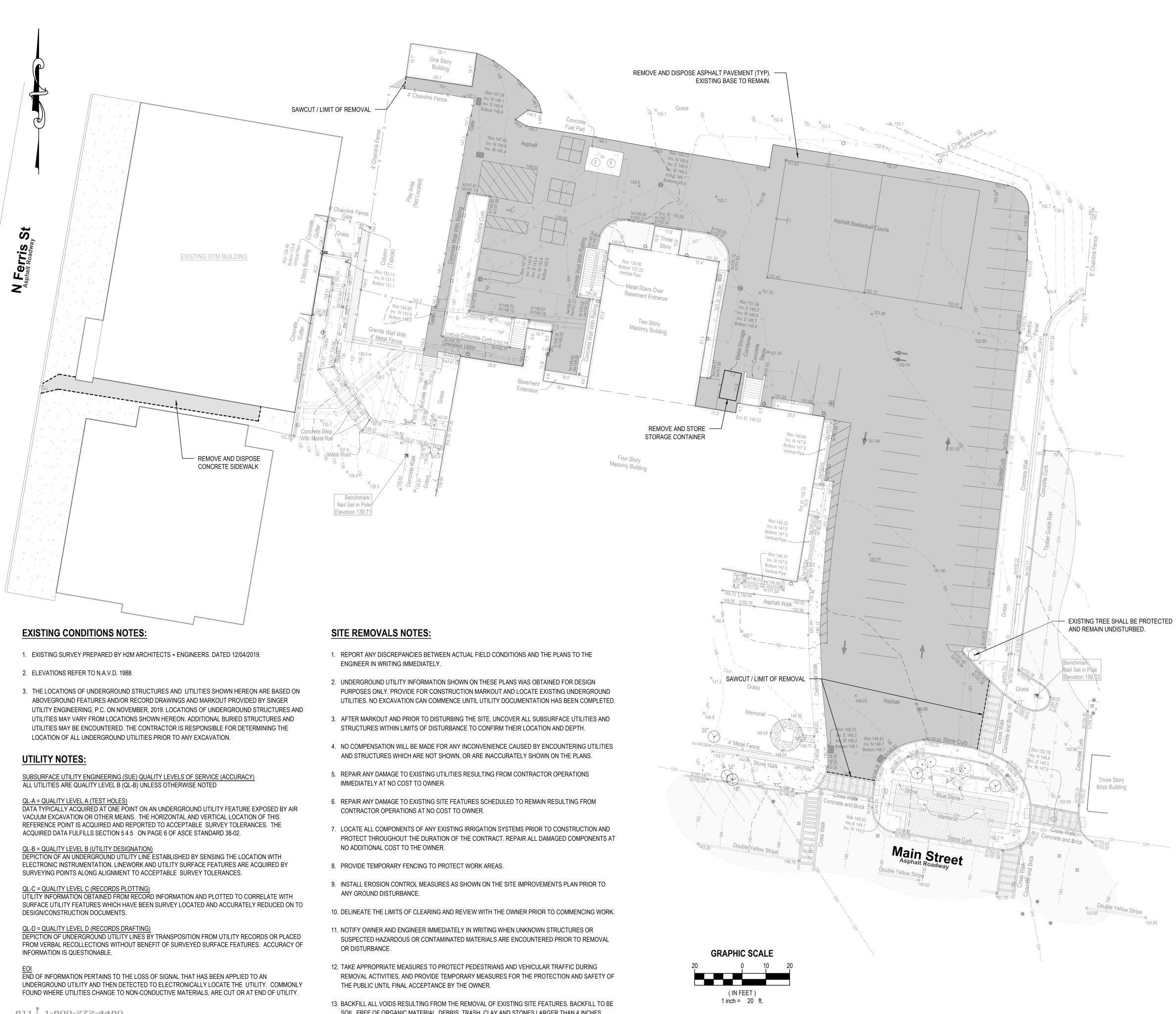
DEFIBRILLATOR (AED)

(FB) EXISTING ALARM BELL

AED

AUTOMATED EXTERNAL







- SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.

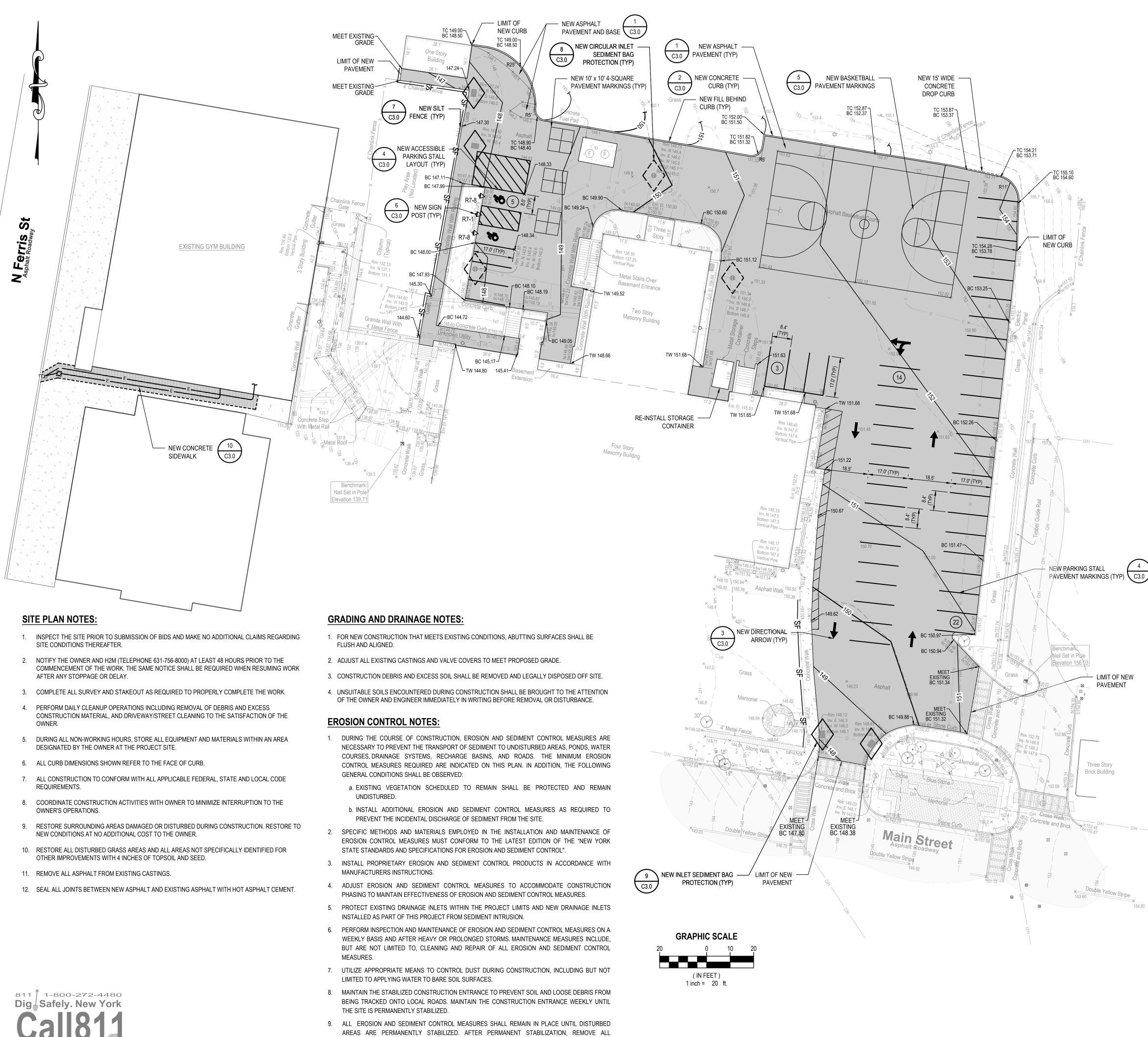
### LEGEND

DESCRIPTION	SYMBO	=
BENCHMARK		
NLET		
NLET		
IYDRANT	V	
WATER METER	$\otimes$	
ROOF DRAIN\LEADER	$O_L$	
SANITARY MANHOLE	S	
CLEAN OUT		
ELECTRIC RISER	$\odot_{ER}$	
IGHT	¢	
GROUND LIGHT		
JTILITY POLE/GUY POLE	J	
GAS METER	$\boxtimes$	
RRIGATION CONTROL BOX	IR	
SIGN	-0-	
TWO POST SIGN	-0-0	-
/ANHOLE	(I)	
BOLLARD	$\bigcirc$	
LAG POLE	O <sub>FP</sub>	
EVERGREEN TREE		
DECIDUOUS TREE	Õ	
CURB		
DROP CURB	<u> </u>	
STORM DRAIN	— D —	— D ——
WATER SERVICE		
WATER MAIN	—— W ——	— w ——
ROOF LEADER	L	
HOUSE CONNECTION	—— НС ———	— нс ——
SANITARY SEWER	\$	
JNDERGROUND GAS	G —	
JNDERGROUND ELECTRIC	—— E ———	— E ——
JNDERGROUND TELEPHONE	— т —	— т ——
OVERHEAD WIRES	O/H	— O/H ——
FENCE	X	— x ——
EDGE OF PAVEMENT	//	
CONTOUR	<u> </u>	
SPOT ELEVATION	100.0 <sub>×</sub>	
TOP/BOT CURB GRADE	tc 100.50 bc 100.00	
HANDICAP PARKING STALL	ڹ	
ASPHALT PAVEMENT		
CONCRETE PAVEMENT		
BRICK/PAVER PAVEMENT		
DETECTABLE WARNING PAD		
SAWCUT PAVEMENT LINE		
REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT		

REMOVE AND DISPOSE EXISTING CONCRETE SIDEWALK

Η	2	architects	
	M	engineers	
	2700 Westchester A Purchase, I 914.358.5623 • v	NY 10577	
CONSULTANTS:			
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	11-18-2021	FINAL BID DOCUMENT	
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	UNION NEW 1856		
	101 Main Street Irvington, NY 10533		
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	SHEET TITLE EXISTING SITE CONDITIONS/ SITE REMOVALS PLAN		

**C1.0** 





- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SITE AND DRAINAGE STRUCTURES.

## LEGEND

DESCRIPTION

CURB CONCRETE DROP CURB

ASPHALT PAVEMENT

CONCRETE SIDEWALK

SIGN

PARKING STALL COUN SPOT ELEVATION TOP AND BOTTOM CURB ELEVATION

MAJOR CONTOUR MINOR CONTOUR NEW SILT FENCE NEW INLET SEDIMENT BAG PROTECTION

NEW CURB INLET SEDIMENT BAG

## SIGN LEGEND

DESCRIPTION

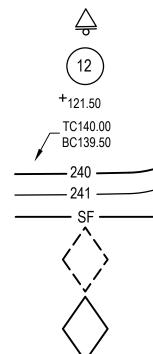
R7-8 (12x18)

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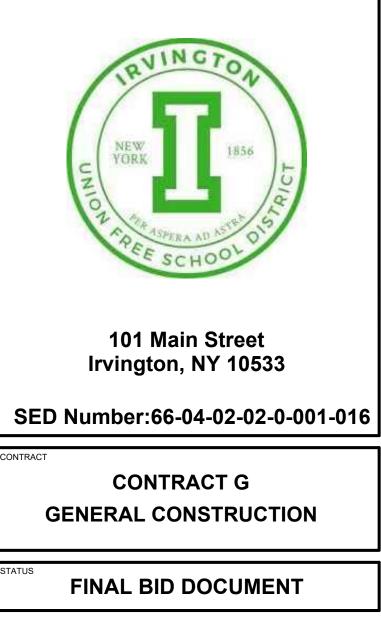
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## **Irvington Union Free School District**

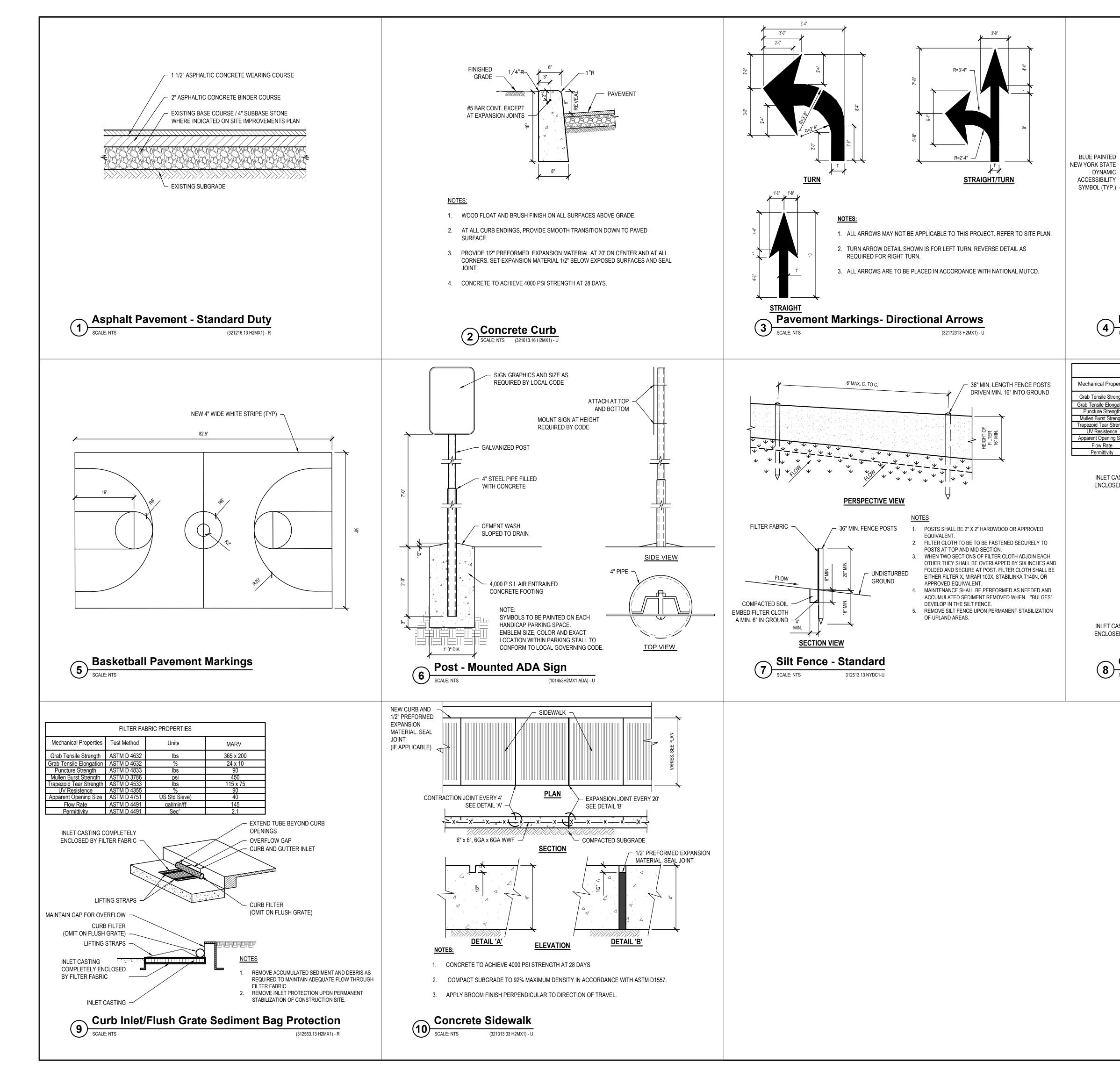
Main Street School Renovations

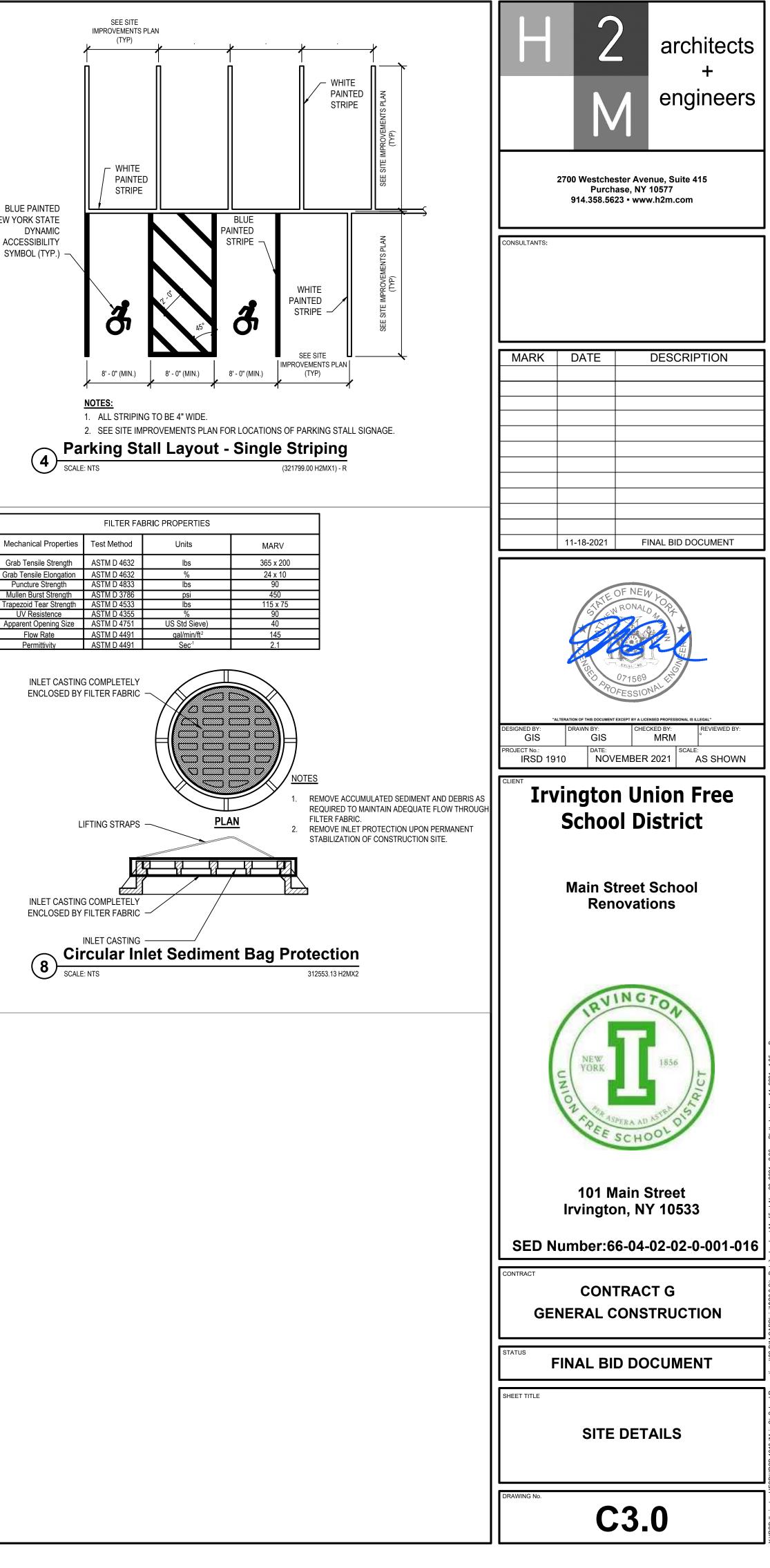


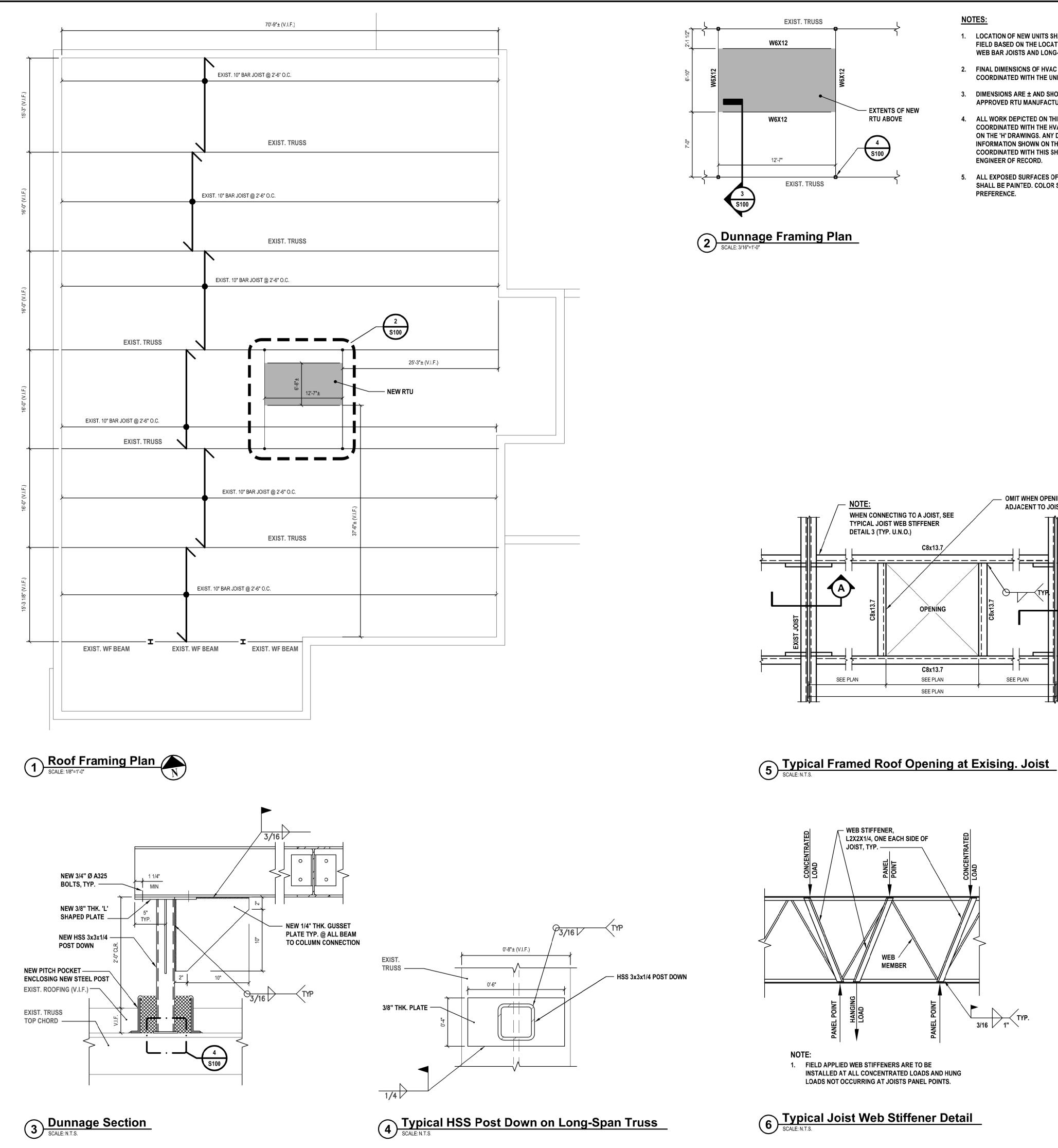
### SHEET TITLE

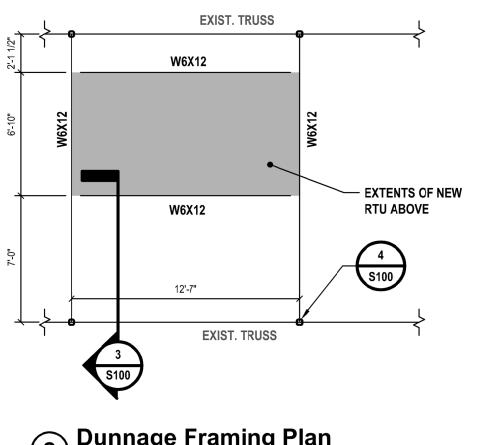
## SITE IMPROVEMENTS PLAN

**C2.0** 

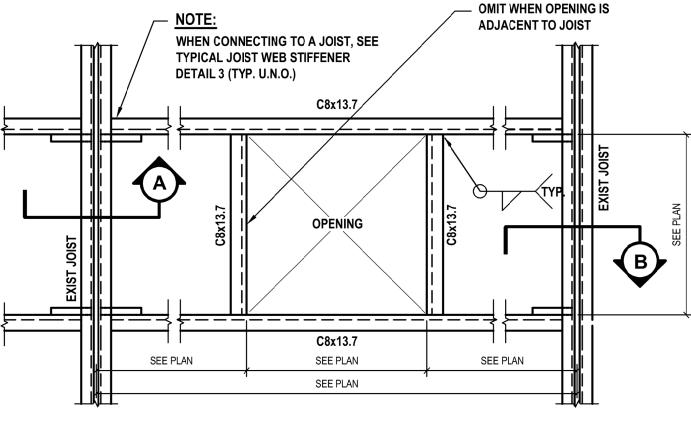




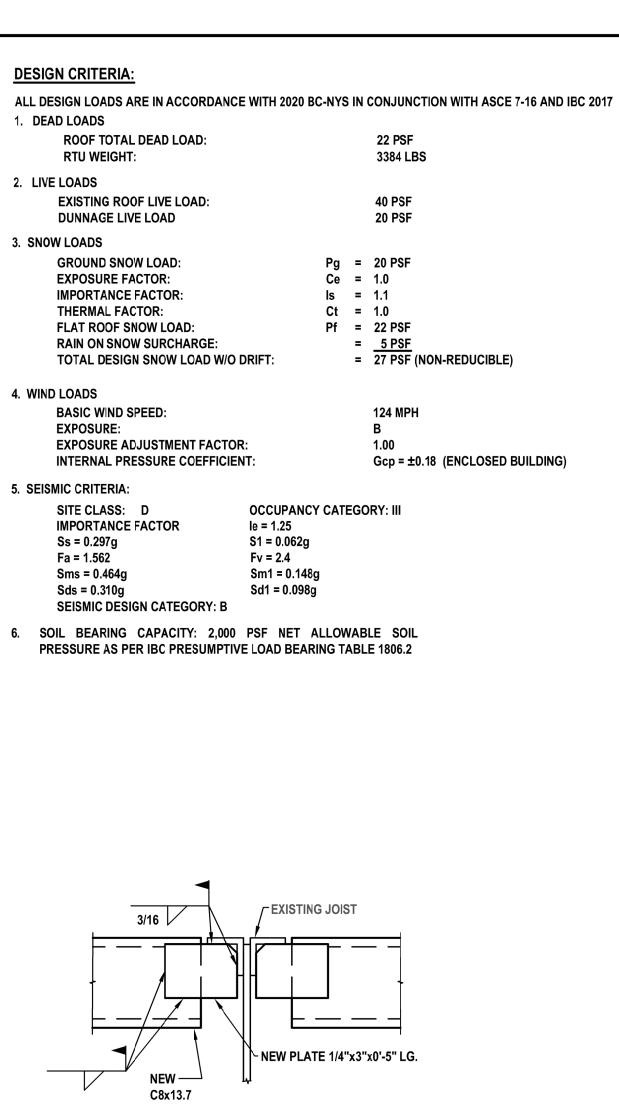




- LOCATION OF NEW UNITS SHALL BE COORDINATED IN THE FIELD BASED ON THE LOCATION OF THE EXISTING OPEN WEB BAR JOISTS AND LONG-SPAN STEEL TRUSSES.
- 2. FINAL DIMENSIONS OF HVAC UNITS SHALL BE COORDINATED WITH THE UNIT MANUFACTURER.
- 3. DIMENSIONS ARE ± AND SHOULD BE COORDINATED WITH APPROVED RTU MANUFACTURER AND HVAC TRADE WORK.
- 4. ALL WORK DEPICTED ON THIS SHEET HAS BEEN COORDINATED WITH THE HVAC EQUIPMENT REFERENCED ON THE 'H' DRAWINGS. ANY DEVIATION FROM THE INFORMATION SHOWN ON THE 'H' DRAWINGS SHALL BE COORDINATED WITH THIS SHEET AND APPROVED BY THE ENGINEER OF RECORD.
- 5. ALL EXPOSED SURFACES OF REMAINING AND NEW STEEL SHALL BE PAINTED. COLOR SHALL BE AS PER OWNER'S







**SECTION A** 

FEXISTING JOIST

- NEW PLATE 1/4"x3"x0'-5" LG.

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3/16

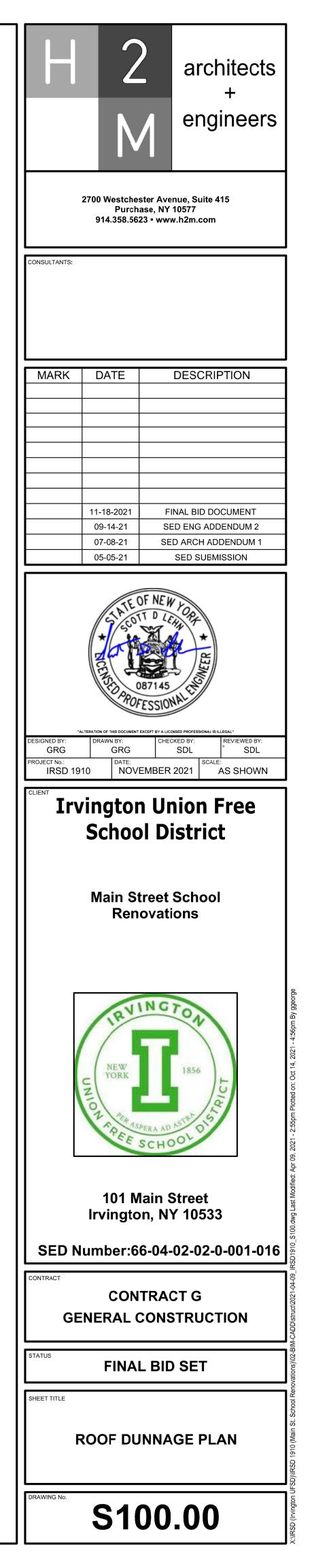
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NEW —

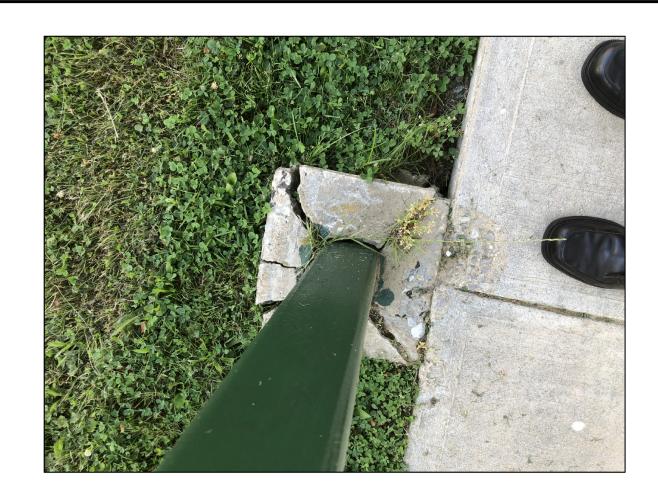
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SECTION B

3/16





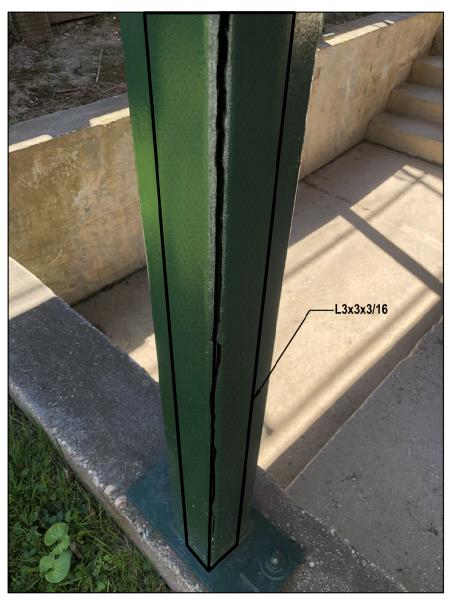


### NOTES:

1. SCRAPE AND PAINT STEEL BASE PLATE AND COLUMN AS REQUIRED.

- 2. ENCASE BASE OF COLUMN WITH CONCRETE CAPPING TO PROTECT BASE PLATE. REMOVE LOOSE AND BROKEN SECTIONS OF CONCRETE AS REQUIRED.
- 3. CAPPING TO CROWN AT FACE OF COLUMN AND PITCH TOWARD SIDES. PROVIDE SEALANT AROUND PERIMETER OF COLUMN AT TOP OF CROWN.





### NOTES:

- 1. WELD NEW ANGLE TO THE OUTSIDE CORNER OF SPLIT EDGE OF THE COLUMN. MIN 1/4" WELD, CONTINUOUS ALONG THE EDGE OF THE ANGLE.
- 2. SCRAPE FINISH FROM FACE OF COLUMN AS REQUIRED TO ACCOMMODATE WELD. REPAINT TO MATCH EXISTING.

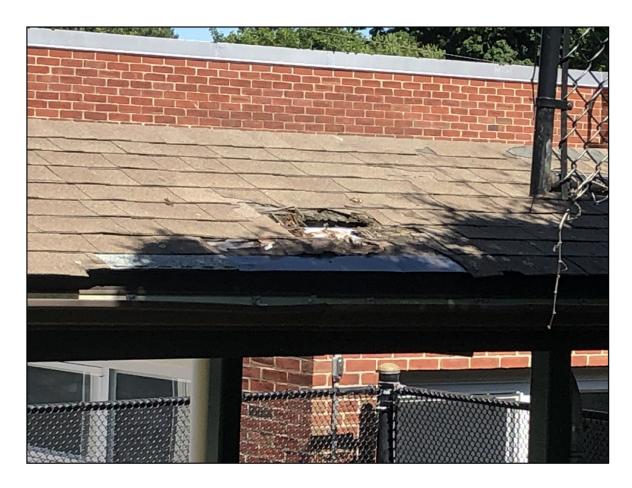




NOTES:

- 2. INSTALL MISSING ANCHOR BOLTS AS REQUIRED. MINIMUM 1/2" Ø EXTENSION.





### NOTES:

1. REMOVE SHINGLES IN VICINITY OF DAMAGED ROOF.

2. REMOVE DAMAGED PLYWOOD SHEATHING AND ROOF SHINGLES AND REPLACE IN KIND TO MATCH EXISTING.



1. REMOVE ALL LOOSE CONCRETE MATERIAL. INSTALL WIDENED FOUNDATION EXTENSION TO ACCEPT POST BEARING PLATE. INSTALL NEW CONCRETE FOUNDATION 42" MIN IN DEPTH BELOW BASEPLATE. DOWEL NEW CONCRETE FOUNDATION INTO EXISTING FOUNDATION USING #5 BARS @ 12" O.C. AND HILTI HIT HY 200.

BOLT SIZE WITH MINIMUM 5 1/2" EMBEDMENT INTO FOUNDATION



### NOTES:

1. INSTALL ALUMINUM STAIR NOSING AT EACH STEP. PROVIDE RECESSED NOTCH IN TOP AND FACE OF STAIR TREAD TO ACCOMMODATE INSTALLATION OF NEW NOSING. APPLY BONDING AGENT AND SET NOSING IN BED OF NON-METALLIC, NON-SHRINK GROUT. INSTALL COUNTERSUNK ANCHORS FOR NOSING INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

## 3 Stair Repair

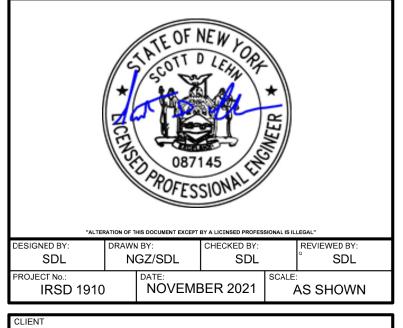
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	11-18-2021	FINAL BID DOCUMENT
	09-14-21	SED ENG ADDENDUM 2
	07-08-21	SED ARCH ADDENDUM 1
	05-05-21	SED SUBMISSION



## **Irvington Union Free School District**

Main Street School Renovations



101 Main Street Irvington, NY 10533

SED Number:66-04-02-02-0-001-016

CONTRACT G **GENERAL CONSTRUCTION** 

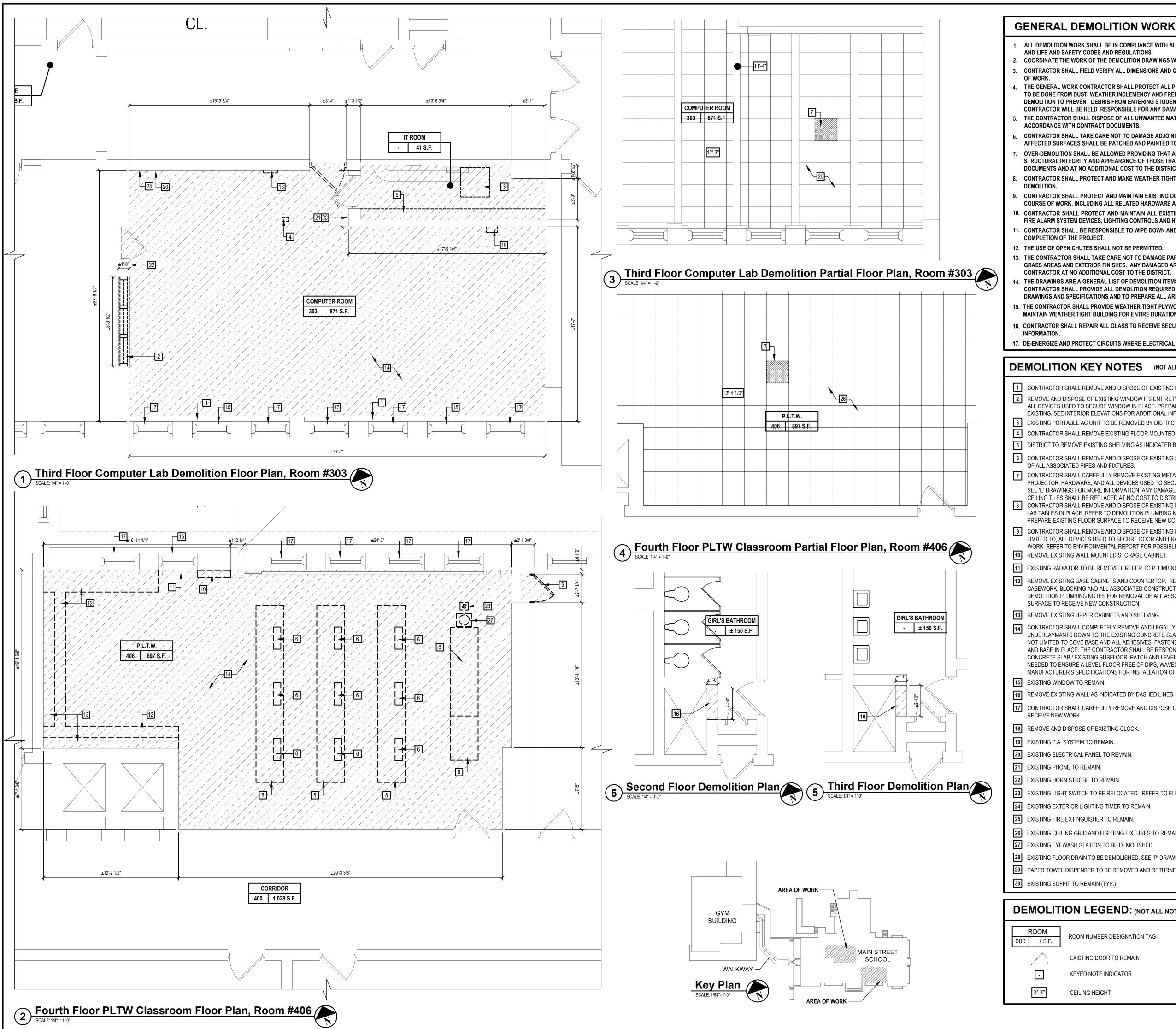
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SHEET TITLE

CONTRACT

**REPAIR PHOTOS** 

# S500.00



## **GENERAL DEMOLITION WORK NOTES**

ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY CODES AND REGULATIONS.

COORDINATE THE WORK OF THE DEMOLITION DRAWINGS WITH ALL CONSTRUCTION DRAWINGS AND DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND QUANTITIES OF ALL ITEMS TO BE REMOVED PRIOR TO START

THE GENERAL WORK CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE EXISTING BUILDING WHERE NEW WORK IS TO BE DONE FROM DUST, WEATHER INCLEMENCY AND FREEZING. PROVIDE DUST FREE BARRIER PARTITIONS DURING DEMOLITION TO PREVENT DEBRIS FROM ENTERING STUDENT AND FACULTY OCCUPIED AREAS. THE GENERAL WORK CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR BUILDING CONTENTS. THE CONTRACTOR SHALL DISPOSE OF ALL UNWANTED MATERIALS AND CONSTRUCTION DEBRIS OFF SITE IN ACCORDANCE WITH CONTRACT DOCUMENTS.

CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJOINING SURFACES AND FINISHES DURING DEMOLITION. ALL AFFECTED SURFACES SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.

OVER-DEMOLITION SHALL BE ALLOWED PROVIDING THAT ALL SURFACES BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY AND APPEARANCE OF THOSE THAT WERE REMOVED AND IN CONFORMANCE WITH CONTRACT DOCUMENTS AND AT NO ADDITIONAL COST TO THE DISTRICT.

CONTRACTOR SHALL PROTECT AND MAKE WEATHER TIGHT ALL EXTERIOR OPENINGS EXPOSED AS A PART OF THE

CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING DOORS AND FRAMES TO REMAIN, AS REQUIRED THROUGHOUT COURSE OF WORK. INCLUDING ALL RELATED HARDWARE AND ACCESSORIES.

10. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING WALL-MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM DEVICES, LIGHTING CONTROLS AND HVAC CONTROLS, UNLESS OTHERWISE NOTED. 11. CONTRACTOR SHALL BE RESPONSIBLE TO WIPE DOWN AND CLEAN ALL ROOMS WHERE WORK IS BEING DONE UPON

12. THE USE OF OPEN CHUTES SHALL NOT BE PERMITTED.

13. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE PARKING LOT PAVING, CONCRETE SIDEWALKS, LANDSCAPING, GRASS AREAS AND EXTERIOR FINISHES. ANY DAMAGED AREAS SHALL BE RESTORED TO EXISTING CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT.

THE DRAWINGS ARE A GENERAL LIST OF DEMOLITION ITEMS AND DO NOT LIST EVERY ITEM REQUIRED FOR DEMOLITION. CONTRACTOR SHALL PROVIDE ALL DEMOLITION REQUIRED TO PERFORM THE WORK INDICATED WITHIN THE PROJECT DRAWINGS AND SPECIFICATIONS AND TO PREPARE ALL AREAS FOR THE CONSTRUCTION WORK.

15. THE CONTRACTOR SHALL PROVIDE WEATHER TIGHT PLYWOOD ENCLOSURES FOR ALL OPENINGS AS REQUIRED TO MAINTAIN WEATHER TIGHT BUILDING FOR ENTIRE DURATION OF PROJECT.

16. CONTRACTOR SHALL REPAIR ALL GLASS TO RECEIVE SECURITY FILM. SEE NEW WORK SHEETS FOR ADDITIONAL

17. DE-ENERGIZE AND PROTECT CIRCUITS WHERE ELECTRICAL ITEMS ARE REMOVED. COORDINATE WITH 'E' DRAWINGS.

### **DEMOLITION KEY NOTES** (NOT ALL NOTES USED ON EACH SHEET)

1 CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING RADIATOR COVER.

2 REMOVE AND DISPOSE OF EXISTING WINDOW ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO WINDOW FRAME, TRIM AND ALL DEVICES USED TO SECURE WINDOW IN PLACE. PREPARE ROUGH OPENING FOR NEW METAL STUD INFILL TO MATCH EXISTING. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

3 EXISTING PORTABLE AC UNIT TO BE REMOVED BY DISTRICT.

4 CONTRACTOR SHALL REMOVE EXISTING FLOOR MOUNTED ELECTRICAL OUTLET. PATCH AND REPAIR HOLES IN FLOORING. 5 DISTRICT TO REMOVE EXISTING SHELVING AS INDICATED BY DASHED LINES.

6 CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING SINK. REFER TO DEMOLITION PLUMBING NOTES FOR REMOVAL

7 CONTRACTOR SHALL CAREFULLY REMOVE EXISTING METAL CEILING TILE, DISCONNECT AND REMOVE CEILING MOUNTED PROJECTOR, HARDWARE, AND ALL DEVICES USED TO SECURE THE PROJECTOR IN PLACE AND RETURN TO THE DISTRICT. SEE 'E' DRAWINGS FOR MORE INFORMATION. ANY DAMAGE THAT IS MADE TO THE EXISTING SURROUNDING ACOUSTICAL CEILING TILES SHALL BE REPLACED AT NO COST TO DISTRICT.

8 CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING LAB TABLES AND ALL ASSOCIATED DEVICES USED TO SECURE LAB TABLES IN PLACE. REFER TO DEMOLITION PLUMBING NOTES FOR REMOVAL OF ALL ASSOCIATED PIPES AND FIXTURES PREPARE EXISTING FLOOR SURFACE TO RECEIVE NEW CONSTRUCTION.

9 CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, SADDLE AND HARDWARE INCLUDING, BUT NOT BE IMITED TO, ALL DEVICES USED TO SECURE DOOR AND FRAME IN PLACE. PREPARE DOOR ROUGH OPENINGS FOR NEW WORK. REFER TO ENVIRONMENTAL REPORT FOR POSSIBLE LEAD PAINT.

11 EXISTING RADIATOR TO BE REMOVED. REFER TO PLUMBING DRAWINGS.

12 REMOVE EXISTING BASE CABINETS AND COUNTERTOP. REMOVAL SHALL INCLUDE, BUT NOT BE LIMITED TO, ASEWORK. BLOCKING AND ALL ASSOCIATED CONSTRUCTION USED TO SECURE CASEWORK IN PLACE. REFER TO DEMOLITION PLUMBING NOTES FOR REMOVAL OF ALL ASSOCIATED PIPES AND FIXTURES. PREPARE EXISTING FLOOR SURFACE TO RECEIVE NEW CONSTRUCTION.

13 REMOVE EXISTING UPPER CABINETS AND SHELVING

14 CONTRACTOR SHALL COMPLETELY REMOVE AND LEGALLY DISPOSE OF EXISTING VCT FLOORING AND AL NDERLAYMANTS DOWN TO THE EXISTING CONCRETE SLAB / EXISTING SUBFLOOR . REMOVAL SHALL INCLUDED BUT NOT LIMITED TO COVE BASE AND ALL ADHESIVES, FASTENERS AND UNDERLAYMENTS USED TO SECURE FLOORING IN AND BASE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE CONDITION OF THE EXISTING CONCRETE SLAB / EXISTING SUBFLOOR, PATCH AND LEVEL EXISTING CONCRETE SLAB / EXISTING SUBFLOOR AS NEEDED TO ENSURE A LEVEL FLOOR FREE OF DIPS, WAVES AND DEPRESSIONS. PREP SUBFLOOR AS PER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF NEW FLOORING.

17 CONTRACTOR SHALL CAREFULLY REMOVE AND DISPOSE OF EXISTING WINDOW TREATMENT. PREPARE AREA TO

20 EXISTING ELECTRICAL PANEL TO REMAIN.

23 EXISTING LIGHT SWITCH TO BE RELOCATED. REFER TO ELECTRICAL DRAWINGS.

**26** EXISTING CEILING GRID AND LIGHTING FIXTURES TO REMAIN AND PROTECTED U.O.N.

28 EXISTING FLOOR DRAIN TO BE DEMOLISHED. SEE 'P' DRAWINGS FOR MORE INFORMATION.

**29** PAPER TOWEL DISPENSER TO BE REMOVED AND RETURNED TO THE DISTRICT.

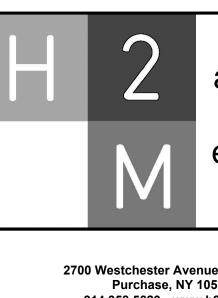
### **DEMOLITION LEGEND:** (NOT ALL NOTES USED ON EACH SHEET)

ROOM NUMBER DESIGNATION TAG

EXISTING DOOR TO REMAIN

EXISTING CEILING TILE REMOVAL

EXISTING WALL

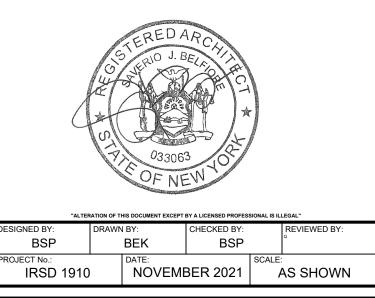


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## **Irvington Union Free School District**

Main Street School Renovations



101 Main Street Irvington, NY 10533

SED Number:66-04-02-02-0-001-016

## **CONTRACT G**

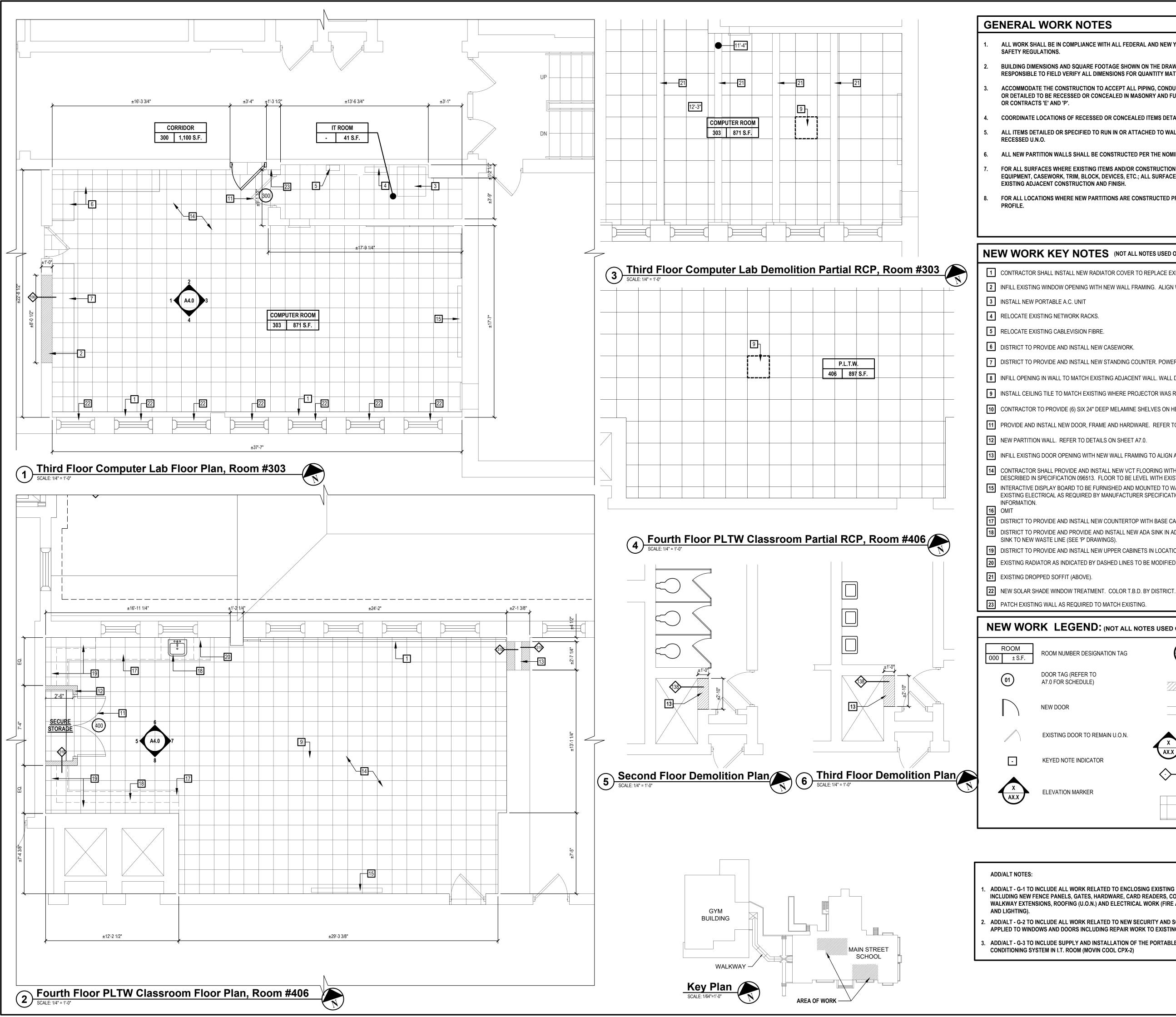
**GENERAL CONSTRUCTION** 

FINAL BID DOCUMENT

THIRD FLOOR COMPUTER LAB AND FOURTH FLOOR PLTW **CLASSROOM DEMOLITION** FLOOR PLANS, NOTES

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EXISTING VCT TILE REMOVAL



ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND

BUILDING DIMENSIONS AND SQUARE FOOTAGE SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS FOR QUANTITY MATERIALS.

ACCOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, PANELS, ETC., EITHER SPECIFIED OR DETAILED TO BE RECESSED OR CONCEALED IN MASONRY AND FURRED WALLS, AS REQUIRED BY THIS CONTRACT

COORDINATE LOCATIONS OF RECESSED OR CONCEALED ITEMS DETAILED OR SPECIFIED WITH CONTRACTS 'E' AND 'P'. ALL ITEMS DETAILED OR SPECIFIED TO RUN IN OR ATTACHED TO WALLS AND CEILINGS ARE TO BE CONCEALED OR

ALL NEW PARTITION WALLS SHALL BE CONSTRUCTED PER THE NOMINAL STUD PARTITION DETAILS ON DRAWING A7.0 FOR ALL SURFACES WHERE EXISTING ITEMS AND/OR CONSTRUCTION IS REMOVED INCLUDING BUT NOT LIMITED TO EQUIPMENT, CASEWORK, TRIM, BLOCK, DEVICES, ETC.; ALL SURFACES SHALL BE PATCHED AND REPAIRED TO MATCH **EXISTING ADJACENT CONSTRUCTION AND FINISH.** 

FOR ALL LOCATIONS WHERE NEW PARTITIONS ARE CONSTRUCTED PROVIDE WALL BASE TO MATCH EXISTING SIZE AND

## NEW WORK KEY NOTES (NOT ALL NOTES USED ON EACH SHEET)

1 CONTRACTOR SHALL INSTALL NEW RADIATOR COVER TO REPLACE EXISTING. REFER TO INTERIOR ELEVATIONS. 2 INFILL EXISTING WINDOW OPENING WITH NEW WALL FRAMING. ALIGN WITH EXISTING WALL.

6 DISTRICT TO PROVIDE AND INSTALL NEW CASEWORK.

7 DISTRICT TO PROVIDE AND INSTALL NEW STANDING COUNTER. POWER REFER TO INTERIOR ELEVATIONS.

8 INFILL OPENING IN WALL TO MATCH EXISTING ADJACENT WALL. WALL DEPTH TO MATCH EXISTING (V.I.F)

9 INSTALL CEILING TILE TO MATCH EXISTING WHERE PROJECTOR WAS REMOVED.

- 10 CONTRACTOR TO PROVIDE (6) SIX 24" DEEP MELAMINE SHELVES ON HEAVY DUTY STANDARDS AND BRACKETS (WHITE)
- 11 PROVIDE AND INSTALL NEW DOOR, FRAME AND HARDWARE. REFER TO SHEET A7.0 FOR SCHEDULE.

12 NEW PARTITION WALL. REFER TO DETAILS ON SHEET A7.0.

- 13 INFILL EXISTING DOOR OPENING WITH NEW WALL FRAMING TO ALIGN AND MATCH EXISTING ADJACENT WALL (V.I.F.)
- 14 CONTRACTOR SHALL PROVIDE AND INSTALL NEW VCT FLOORING WITH VINYL BASE OVER LEVELING COMPOUND AS DESCRIBED IN SPECIFICATION 096513. FLOOR TO BE LEVEL WITH EXISTING HALLWAY FLOOR. 15 INTERACTIVE DISPLAY BOARD TO BE FURNISHED AND MOUNTED TO WALL BY DISTRICT. CONTRACTOR 'E' TO MODIFY
  - EXISTING ELECTRICAL AS REQUIRED BY MANUFACTURER SPECIFICATIONS. REFER TO 'E' DRAWINGS FOR ADDITIONAL

17 DISTRICT TO PROVIDE AND INSTALL NEW COUNTERTOP WITH BASE CABINETRY BELOW.

- 18 DISTRICT TO PROVIDE AND PROVIDE AND INSTALL NEW ADA SINK IN ADA COMPLIANT BASE CABINET. G.C. TO CONNECT SINK TO NEW WASTE LINE (SEE 'P' DRAWINGS).
- 19 DISTRICT TO PROVIDE AND INSTALL NEW UPPER CABINETS IN LOCATIONS INDICATED BY DASHED LINES.
- 20 EXISTING RADIATOR AS INDICATED BY DASHED LINES TO BE MODIFIED OR REMOVED. T.B.D. BY MECHANICAL ENGINEERS.

## **NEW WORK LEGEND:** (NOT ALL NOTES USED ON EACH SHEET)

ROOM NUMBER DESIGNATION TAG

DOOR TAG (REFER TO A7.0 FOR SCHEDULE)

EXISTING DOOR TO REMAIN U.O.N.

KEYED NOTE INDICATOR

ELEVATION MARKER

INDICATES ENLARGED PLAN AX.X NEW WALL EXISTING WALL SECTION MARKER PARTITION TYPE MARKER NEW VCT TILE FLOORING

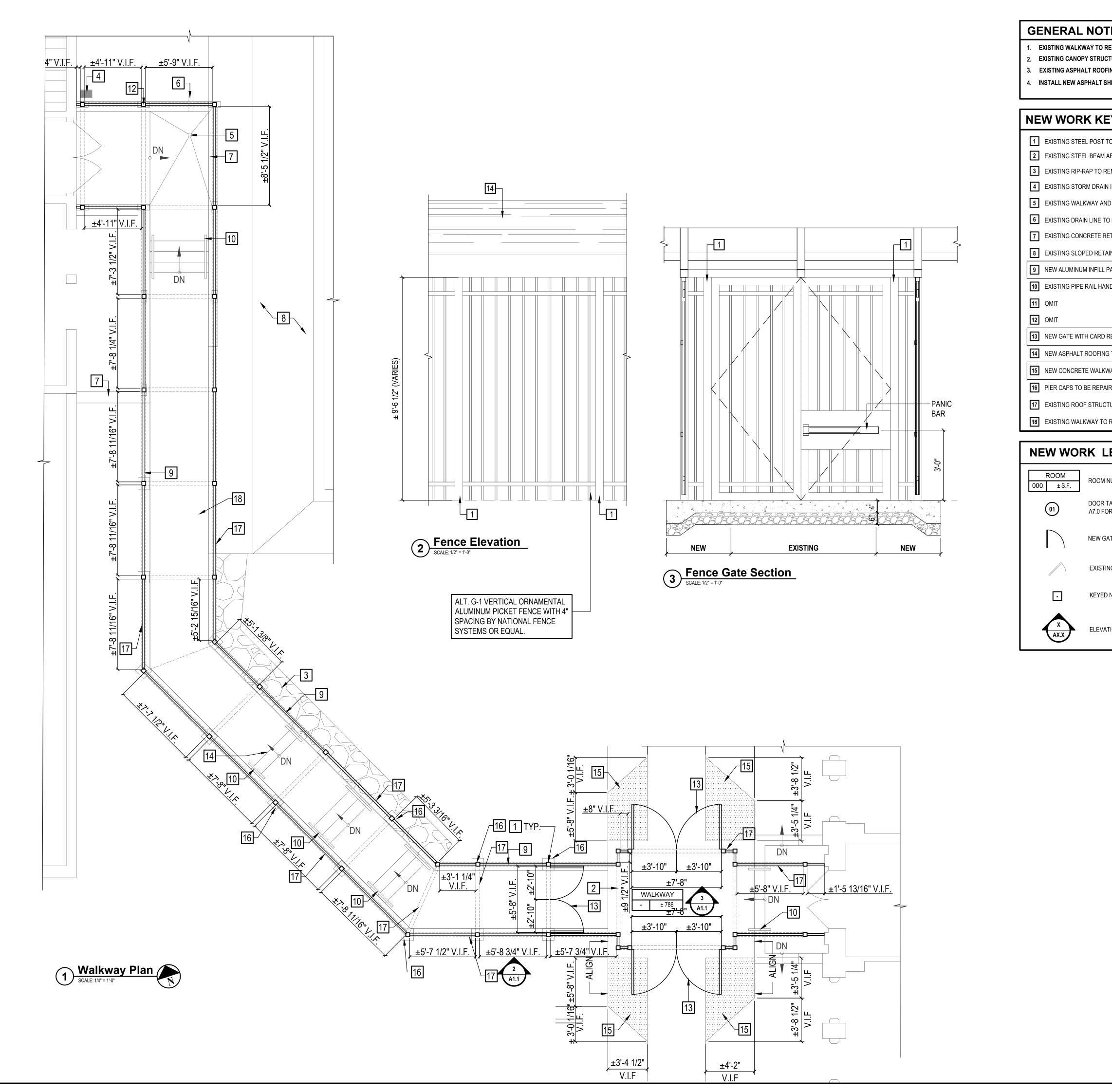
ADD/ALT - G-1 TO INCLUDE ALL WORK RELATED TO ENCLOSING EXISTING WALKWAY INCLUDING NEW FENCE PANELS, GATES, HARDWARE, CARD READERS, CONCRETE WALKWAY EXTENSIONS, ROOFING (U.O.N.) AND ELECTRICAL WORK (FIRE ALARM, POWER

ADD/ALT - G-2 TO INCLUDE ALL WORK RELATED TO NEW SECURITY AND SOLAR FILM APPLIED TO WINDOWS AND DOORS INCLUDING REPAIR WORK TO EXISTING FENESTRATION.

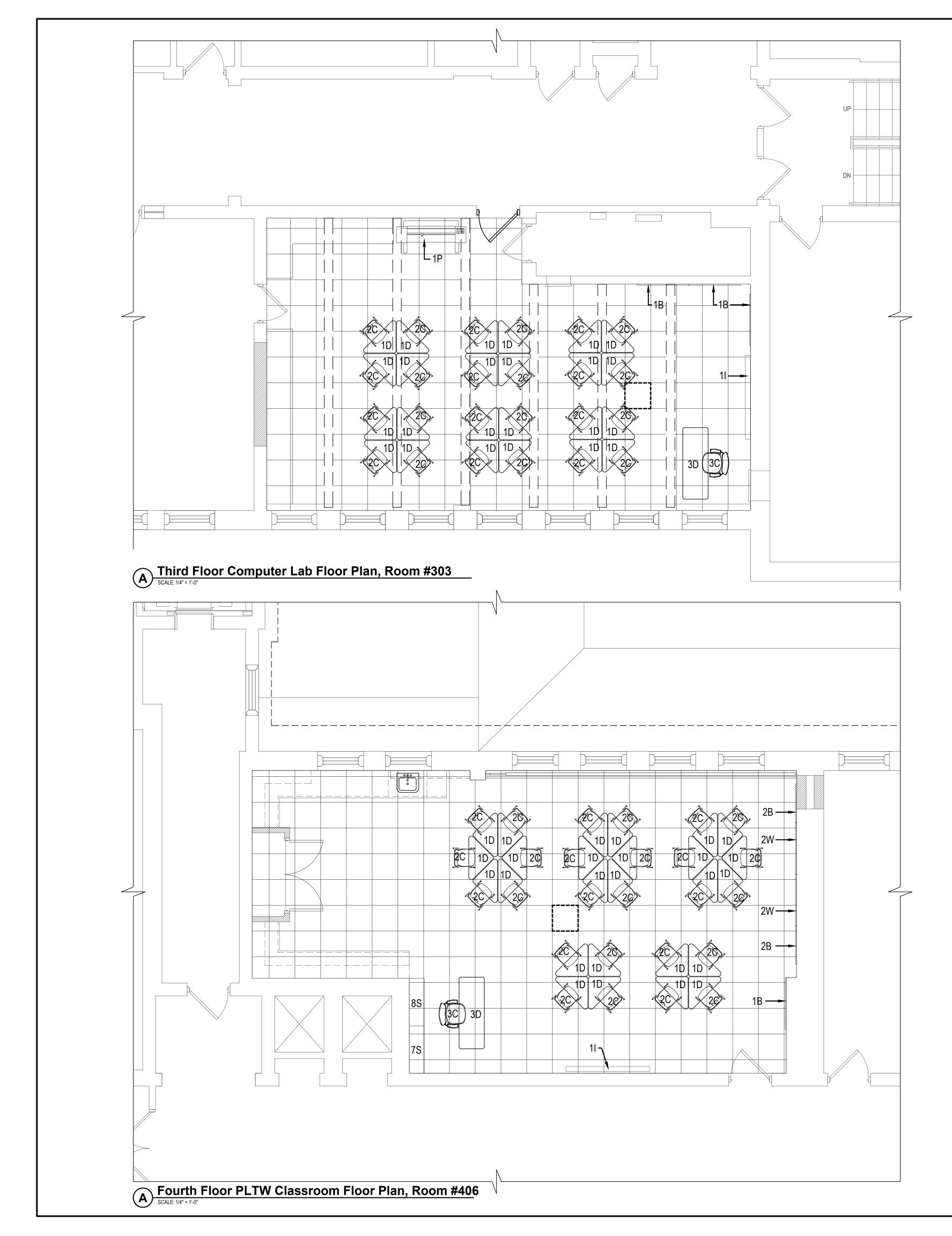
ADD/ALT - G-3 TO INCLUDE SUPPLY AND INSTALLATION OF THE PORTABLE AIR

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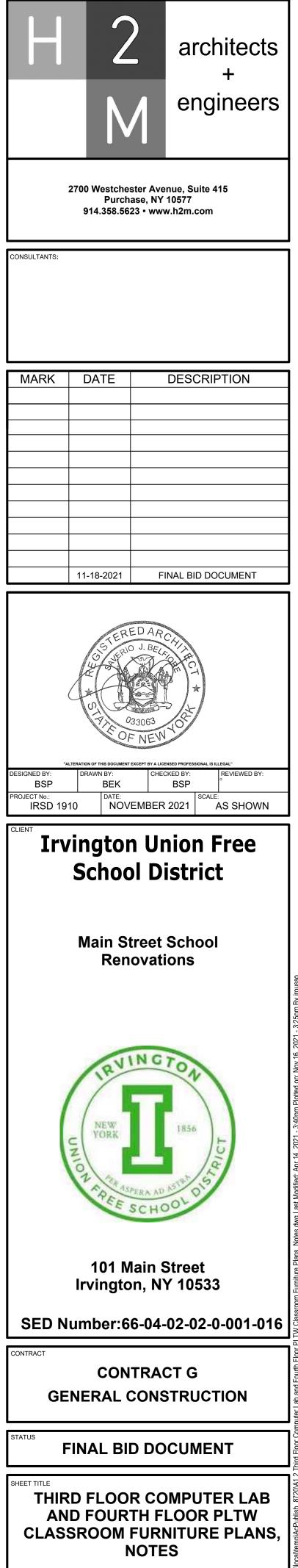
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YNOTES (NOT ALL NOTES USED ON EACH SHEET)	2700 Westchester Avenue, Suite 415
O REMAIN, TYPICAL U.O.N.	Purchase, NY 10577 914.358.5623 • www.h2m.com
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ND RAIL TO REMAIN.	
READER. CONTRACTOR SHALL COORDINATE WITH SECURITY VENDOR.	
G TO REPLACE EXISTING. SEE DETAILS ON SHEET A1.2.	
VAY. REFER TO DETAIL 'S' DRAWINGS	11-18-2021 FINAL BID DOCUMENT
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	GENERAL CONSTRUCTION STATUS FINAL BID DOCUMENT
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BUILDING	GENERAL CONSTRUCTION          STATUS       FINAL BID DOCUMENT         SHEET TITLE       WALKWAY PLAN, FENCE
BUILDING MAIN STREET SCHOOL	GENERAL CONSTRUCTION   STATUS   FINAL BID DOCUMENT   SHEET TITLE WALKWAY PLAN, FENCE ELEVATION & SECTION, NOTES DRAWING No.
BUILDING MAIN STREET SCHOOL	GENERAL CONSTRUCTION   STATUS   FINAL BID DOCUMENT   SHEET TITLE WALKWAY PLAN, FENCE ELEVATION & SECTION, NOTES

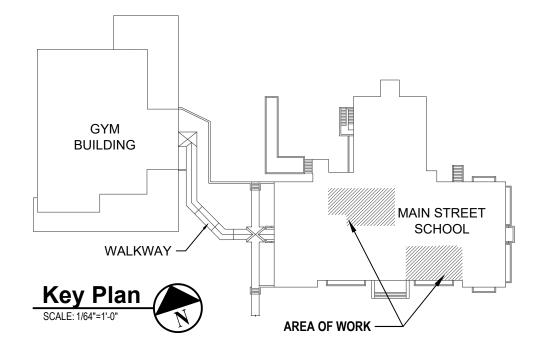


FURNITU	RE LEG	END (PUR	CHASED AND IN	ISTA	
FURNITURE TAG	QUANTITY	MANUFACTURER	MODEL NAME / NUMBER	D WIDTH	IMENSIOI DEPTH
7S	1	PALMIERI	DURECON / DW-8214-S-36	37 1⁄4"	14 5⁄8"
8S	1	PALMIERI	DURECON / DW-8214-A-36	36 🏒 "	14 5⁄8"
2C	50	SMITH SYSTEM	GROVE STACK / 33847	17.5"	18.5"
3C	2	T.B.D.	STAFF DESK CHAIR	-	-
1D	50	SMITH SYSTEM	WING DESK / 03095	41"	23.5"
3D	2	SMITH SYSTEM	CASCADE / T.B.D.	67"	24"
2W	2	CLARUS	FLOAT / -	4'	-
1B	4	T.B.D.	PIN-UP BOARD	4'	-
2B	2	T.B.D.	PIN-UP BOARD	3'	-
1P	1	T.B.D.	CANON IMAGEPROGRAF	-	-
11	2	T.B.D.	INTERACTIVE DISPLAY BOARD	-	-

EI	) BY	DISTRICT)					
IONS		ADDITIONAL INFORMATION					
Ή	HEIGHT						
-	82"	SINGLE FACE STARTER, COLOR / MATERIAL T.B.D.					
-	82"	SINGLE FACE ADDER, COLOR / MATERIAL T.B.D.					
"	14"	COLOR T.B.D.					
	-	COLOR T.B.D.					
"	22"-34"	COLOR T.B.D.					
"	30.25"	COLOR T.B.D.					
	8'	COLOR T.B.D.					
	8'						
	8'						
	-	EXISTING. DISTRICT TO REMOVE & STORE PRIOR TO CONSTRUCTION.					
	-	EXISTING. DISTRICT TO REMOVE & STORE PRIOR TO CONSTRUCTION.					

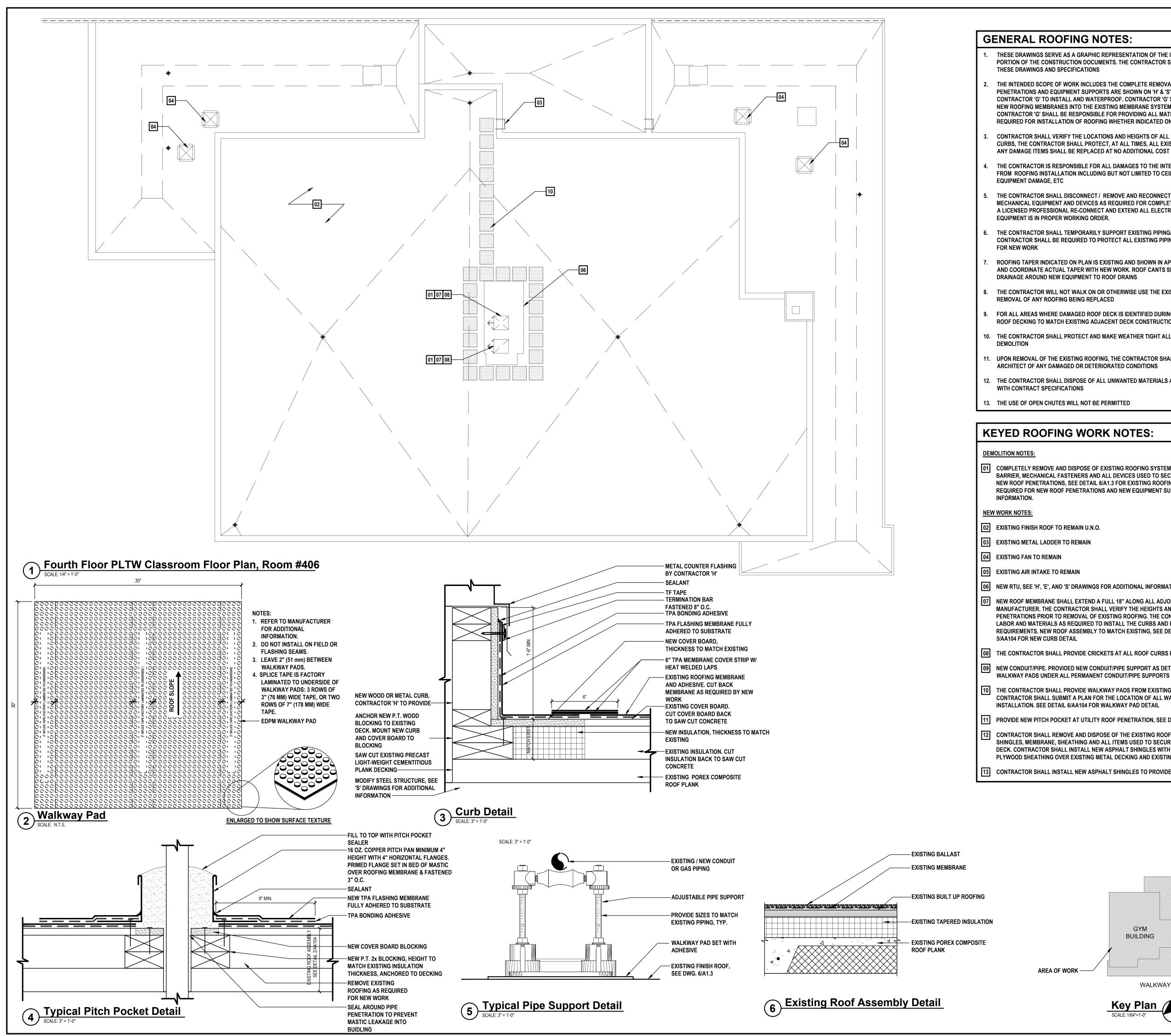
NOTE: THE ABOVE MANUFACTURERS, MODEL NUMBERS, QUANTITIES AND DIMENSIONS ARE RECOMMENDATIONS OF ARCHITECT BASED ON DISTRICT APPROVED DESIGN. DISTRICT TO MAKE FINAL DECISIONS REGARDING ALL ASPECTS OF FURNITURE INCLUDING, BUT NOT LIMITED TO MANUFACTURER, SIZING, QUANTITIES, COLOR AND TYPE.





AWING No.

A1.2



THESE DRAWINGS SERVE AS A GRAPHIC REPRESENTATION OF THE INTENDED SCOPE OF WORK AND CONSTITUTE ONE PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN

THE INTENDED SCOPE OF WORK INCLUDES THE COMPLETE REMOVAL OF EXISTING ROOF SYSTEM WHERE NEW ROOF PENETRATIONS AND EQUIPMENT SUPPORTS ARE SHOWN ON 'H' & 'S' DRAWINGS. CONTRACTOR 'H' TO PROVIDE ROOF CURBS, CONTRACTOR 'G' TO INSTALL AND WATERPROOF. CONTRACTOR 'G' SHALL REMOVE ROOFING AS REQUIRED TO INTEGRATE NEW ROOFING MEMBRANES INTO THE EXISTING MEMBRANE SYSTEM AND PROVIDE WATERTIGHT INSTALLATION. CONTRACTOR 'G' SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIAL, LABOR, ROOFING ITEMS AND ACCESSORIES REQUIRED FOR INSTALLATION OF ROOFING WHETHER INDICATED ON THE DRAWINGS OR NOT

CONTRACTOR SHALL VERIFY THE LOCATIONS AND HEIGHTS OF ALL ROOF PENETRATIONS AND MECHANICAL EQUIPMENT CURBS, THE CONTRACTOR SHALL PROTECT, AT ALL TIMES, ALL EXISTING ROOF MOUNTED EQUIPMENT AND VENT STACKS, ANY DAMAGE ITEMS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DISTRICT

THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO THE INTERIOR AND EXTERIOR OF THE BUILDING THAT RESULT FROM ROOFING INSTALLATION INCLUDING BUT NOT LIMITED TO CEILING TILE DAMAGE, WATER LEAKS, FURNITURE DAMAGE,

THE CONTRACTOR SHALL DISCONNECT / REMOVE AND RECONNECT / REINSTALL ALL EXISTING ROOF MOUNTED ELECTRICAL, MECHANICAL EQUIPMENT AND DEVICES AS REQUIRED FOR COMPLETION OF THE NEW WORK. THE CONTRACTOR SHALL HAVE A LICENSED PROFESSIONAL RE-CONNECT AND EXTEND ALL ELECTRICAL AND MECHANICAL CONNECTORS TO ENSURE

THE CONTRACTOR SHALL TEMPORARILY SUPPORT EXISTING PIPING/CONDUIT AS REQUIRED BY NEW WORK. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT ALL EXISTING PIPING/CONDUIT. REMOVE AND REINSTALL AS NECESSARY

ROOFING TAPER INDICATED ON PLAN IS EXISTING AND SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY AND COORDINATE ACTUAL TAPER WITH NEW WORK. ROOF CANTS SHALL BE INSTALLED TO PROVIDE POSITIVE ROOF

THE CONTRACTOR WILL NOT WALK ON OR OTHERWISE USE THE EXISTING ROOFS TO REMAIN AS STORAGE OR FOR THE

FOR ALL AREAS WHERE DAMAGED ROOF DECK IS IDENTIFIED DURING DEMOLITION: THE CONTRACTOR SHALL PROVIDE NEW ROOF DECKING TO MATCH EXISTING ADJACENT DECK CONSTRUCTION IN MATERIAL TYPE, THICKNESS AND PROFILE

10. THE CONTRACTOR SHALL PROTECT AND MAKE WEATHER TIGHT ALL AREAS EXPOSED AS A PART OF THE ROOFING

11. UPON REMOVAL OF THE EXISTING ROOFING, THE CONTRACTOR SHALL INSPECT THE EXISTING DECK AND NOTIFY THE ARCHITECT OF ANY DAMAGED OR DETERIORATED CONDITIONS

12. THE CONTRACTOR SHALL DISPOSE OF ALL UNWANTED MATERIALS AND CONSTRUCTION DEBRIS OFF SITE IN ACCORDANCE

01 COMPLETELY REMOVE AND DISPOSE OF EXISTING ROOFING SYSTEM INCLUDING ROOFING MEMBRANES, INSULATION, VAPOR BARRIER, MECHANICAL FASTENERS AND ALL DEVICES USED TO SECURE ROOFING IN PLACE DOWN TO EXISTING ROOF DECK AT NEW ROOF PENETRATIONS, SEE DETAIL 6/A1.3 FOR EXISTING ROOFING ASSEMBLY. SAW CUT EXISTING ROOF DECK AS REQUIRED FOR NEW ROOF PENETRATIONS AND NEW EQUIPMENT SUPPORTS. SEE 'H' AND 'S' DRAWINGS FOR ADDITIONAL

06 NEW RTU, SEE 'H', 'E', AND 'S' DRAWINGS FOR ADDITIONAL INFORMATION

07 NEW ROOF MEMBRANE SHALL EXTEND A FULL 18" ALONG ALL ADJOINING VERTICAL SURFACES AS RECOMMENDED BY THE MANUFACTURER. THE CONTRACTOR SHALL VERIFY THE HEIGHTS AND LOCATIONS OF ALL EQUIPMENT AND ROOF PENETRATIONS PRIOR TO REMOVAL OF EXISTING ROOFING. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL LABOR AND MATERIALS AS REQUIRED TO INSTALL THE CURBS AND PIPE/CONDUIT PENETRATIONS TO MEET THE MINIMUM CODE REQUIREMENTS, NEW ROOF ASSEMBLY TO MATCH EXISTING, SEE DETAIL 6/A1,3 FOR EXISTING ROOFING ASSEMBLY, SEE DETAIL

08 THE CONTRACTOR SHALL PROVIDE CRICKETS AT ALL ROOF CURBS PER MANUFACTURER'S SPECIFICATIONS

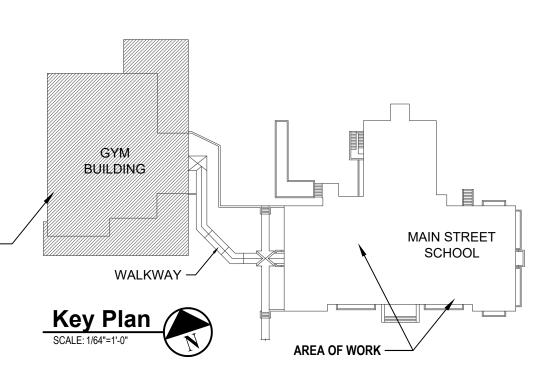
09 NEW CONDUIT/PIPE. PROVIDED NEW CONDUIT/PIPE SUPPORT AS DETAILED ON 3/AA104. CONTRACTOR SHALL PROVIDED

10 THE CONTRACTOR SHALL PROVIDE WALKWAY PADS FROM EXISTING ROOFTOP LADDERS TO ALL HVAC EQUIPMENT. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE LOCATION OF ALL WALKWAY PADS TO THE ARCHITECT FOR REVIEW, PRIOR TO

11 PROVIDE NEW PITCH POCKET AT UTILITY ROOF PENETRATION, SEE DETAIL 4/AA104

CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING ROOF SYSTEM INCLUDING BUT NOT LIMITED TO THE ASPHALT SHINGLES, MEMBRANE, SHEATHING AND ALL ITEMS USED TO SECURE THE SYSTEM IN PLACE DOWN TO THE EXISTING METAL DECK. CONTRACTOR SHALL INSTALL NEW ASPHALT SHINGLES WITH ICE AND WATER SHIELD OVER ENTIRE ROOF OVER 1/2" CDX PLYWOOD SHEATHING OVER EXISTING METAL DECKING AND EXISTING STEEL STRUCTURE.

13 CONTRACTOR SHALL INSTALL NEW ASPHALT SHINGLES TO PROVIDE CLOSED VALLEYS AND PEAKS. SEE DETAIL 2/A1.2.



Н		) - /	architects + engineers				
CONSULTANTS:	2700 Westchester Avenue, Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com						
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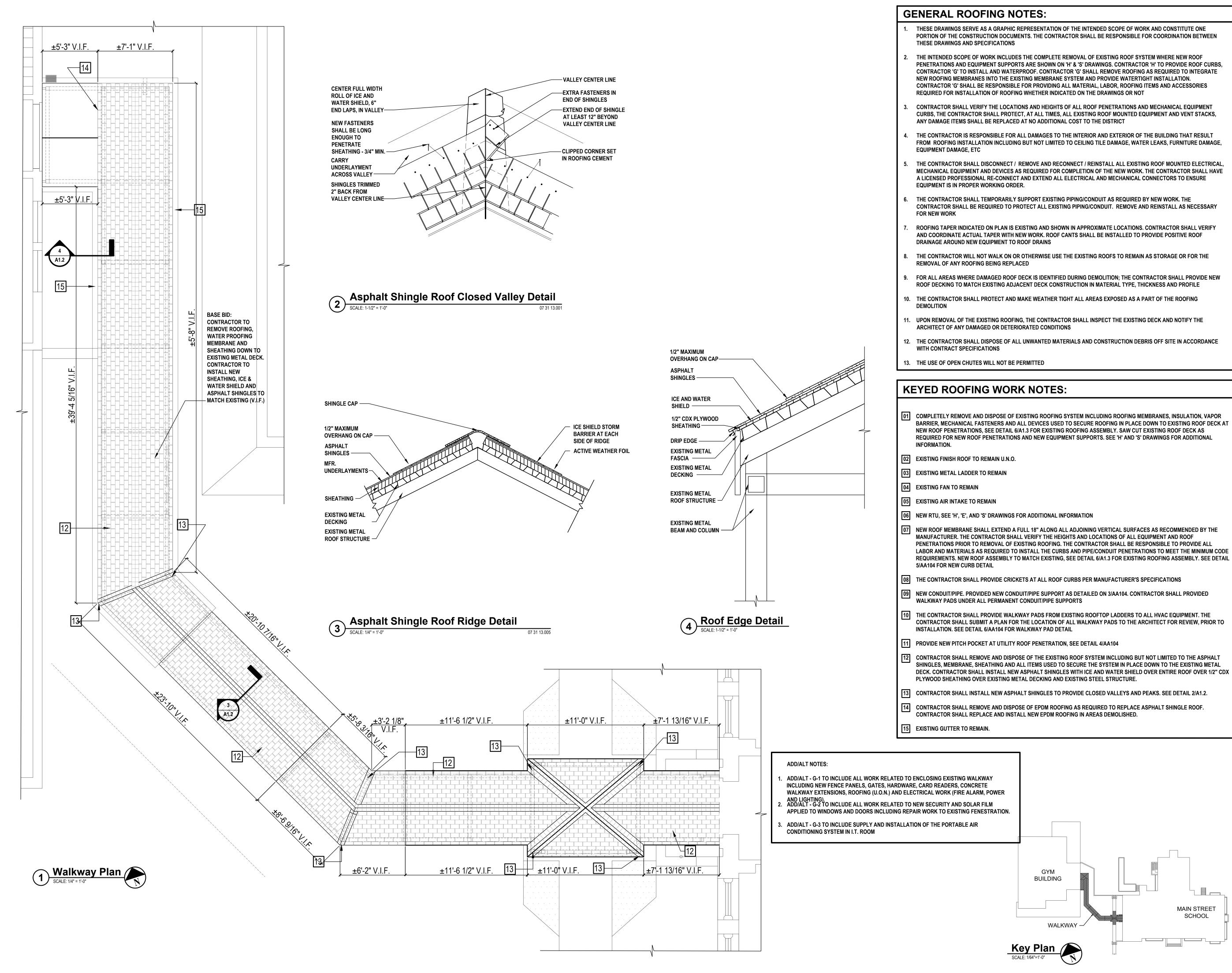
**GENERAL CONSTRUCTION** 

FINAL BID DOCUMENT

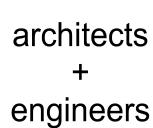
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**ROOF PLAN AND DETAILS** 

A1.3

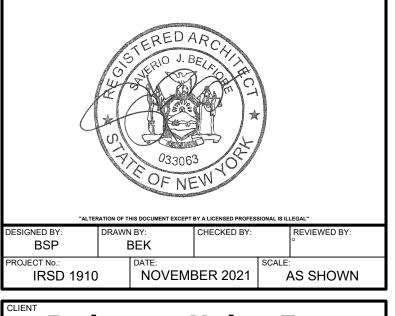






2700 Westchester Avenue, Suite 415

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## **Irvington Union Free School District**

Main Street School Renovations



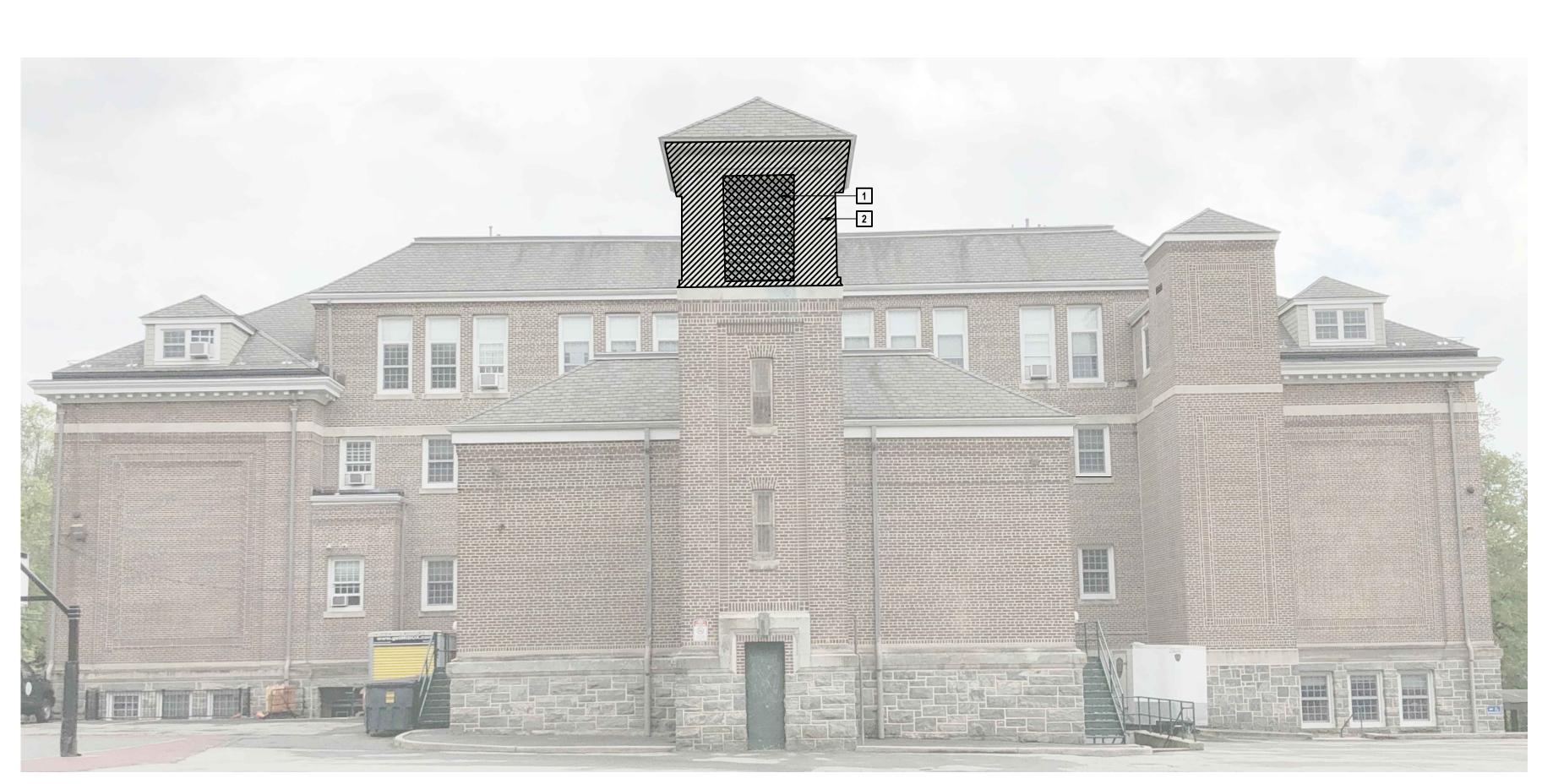
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**CONTRACT G GENERAL CONSTRUCTION** 

FINAL BID DOCUMENT

WALKWAY ROOF PLAN AND DETAILS



1 Southwest Elevation





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CTURE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IN WRITING IMMEDIATELY.

APE, PRIME AND PAINT EXISTING METAL LOUVER AS INDICATED BY HATCHED AREA. PAINTING SHALL THE REQUIREMENTS CONTAINED IN SECTION 099000 OF THE SPECIFICATIONS. APE, PRIME AND PAINT EXISTING BELL TOWER AS INDICATED BY HATCHED AREA. PAINTING SHALL THE REQUIREMENTS CONTAINED IN SECTION 099000 OF THE SPECIFICATIONS.

### **END**



SECTION/ELEVATION INDICATOR

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## BATEMENT NOTES

WORK SHALL CONFORM TO ALL APPLICABLE CODE REQUIREMENTS ALONG WITH SPECIFICATION DUSTRIAL CODE RULE 56.

FOR CONCEALED ASBESTOS CONTAINING MATERIALS (ACM) OR OTHER REGULATED MATERIALS, MMATIC ONLY AND MEANT TO CONVEY THE APPROX. LOCATION AND QUANTITIES OF ACM. REFER TO DJECT MANUAL FOR MORE INFORMATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR EHENSIVE REVIEW OF THE PREMISES BEFORE SUBMITTING A BID FOR THE WORK AND TO HAVE AND EXISTING CONDITIONS AS REQUIRED FOR THE ABATEMENT WORK.

PROX. QUANTITIES IDENTIFIED, SEE SPECIFICATION 028200 AND THE REPORT LOCATED IN 'APPENDIX

L BE RESPONSIBLE TO PERFORM PERSONAL AIR MONITORING ON ITS EMPLOYEES IN ACCORDANCE

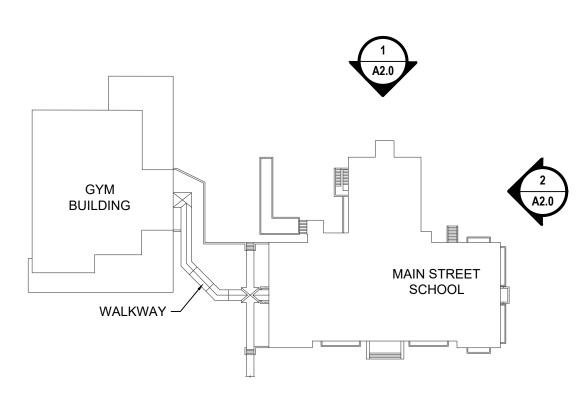
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L BE RESPONSIBLE TO FILE FOR ALL PERMITS AND NOTIFY ALL REGULATORY AGENCIES AS RK AND PAY ALL FEES ASSOCIATED WITH SUCH.

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ETRATIONS INCLUDING, BUT NOT LIMITED TO, WINDOWS, DOORS, DUCTS, LOUVERS AND GRILLES SHALL BE COVERED WITH A MINIMUM OF TWO (2) LAYERS OF 6 MIL. PLASTIC.

ELOCATE ALL NON-PERMANENT ITEMS SUCH AS TEACHERS' BELONGINGS, BOOKS AND ALL ITEMS ERED BY PLASTIC. ALL DESKS, FURNITURE AND REMOVABLE SHELVING WILL BE RELOCATED BY THE ASBESTOS ABATEMENT. CONTRACTOR MUST COORDINATE ABATEMENT SCHEDULE WITH DISTRICT.

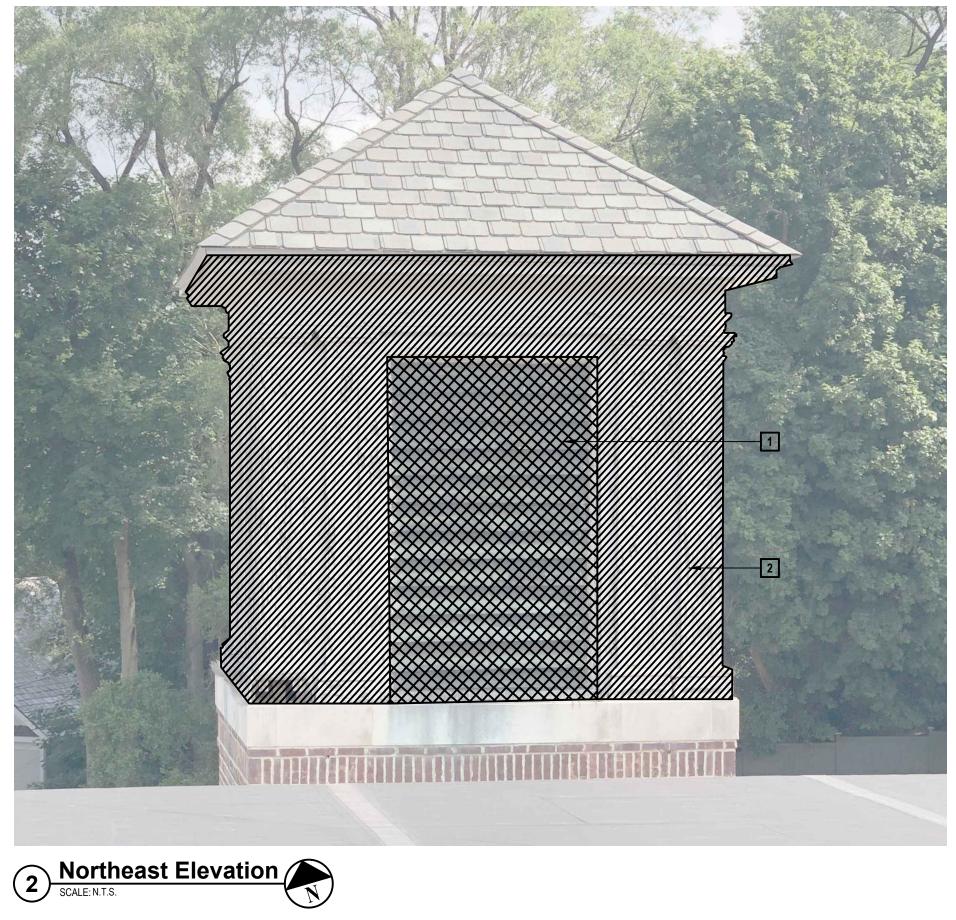


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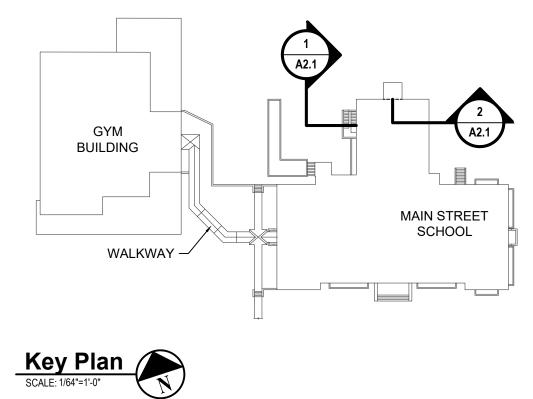
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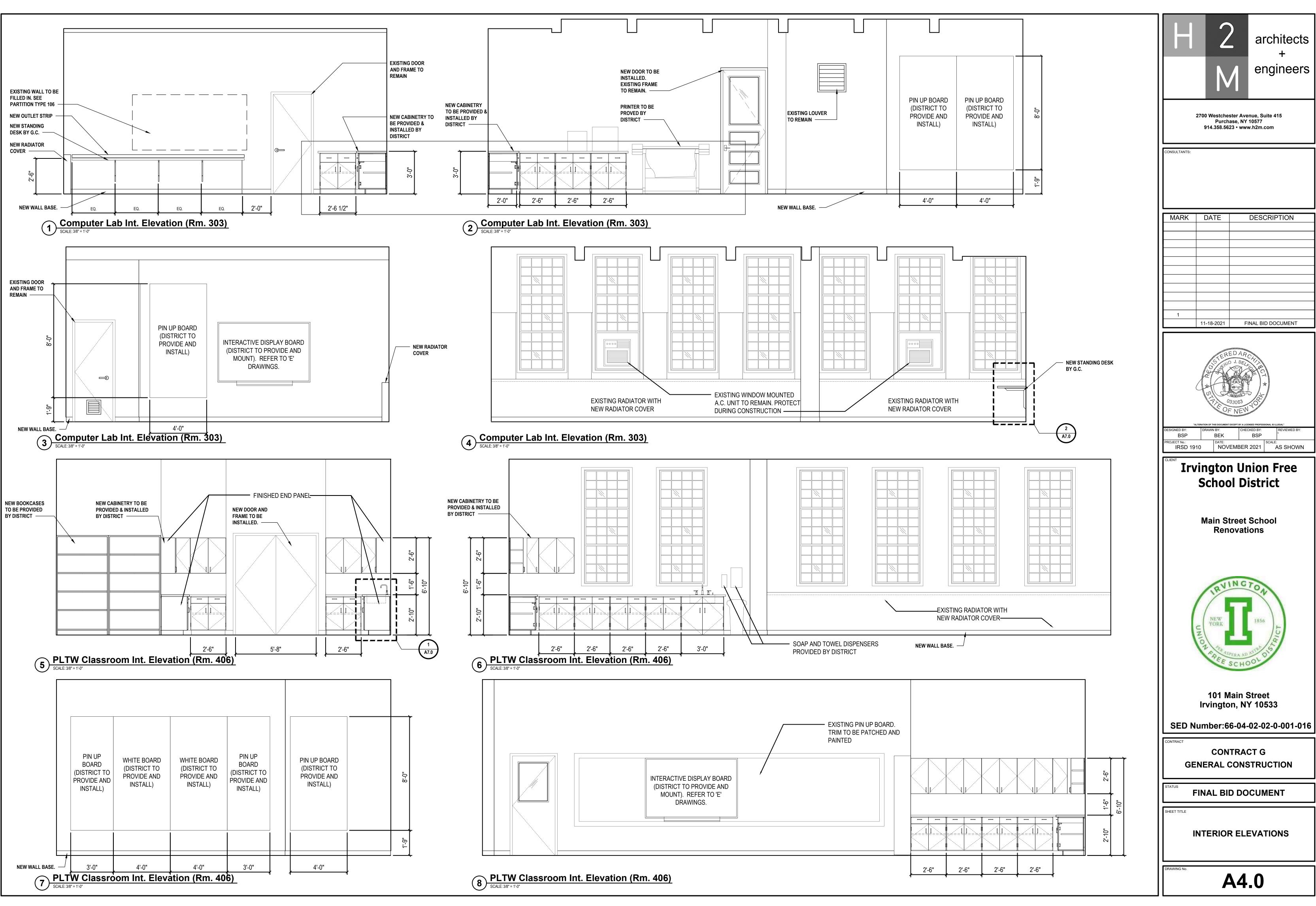
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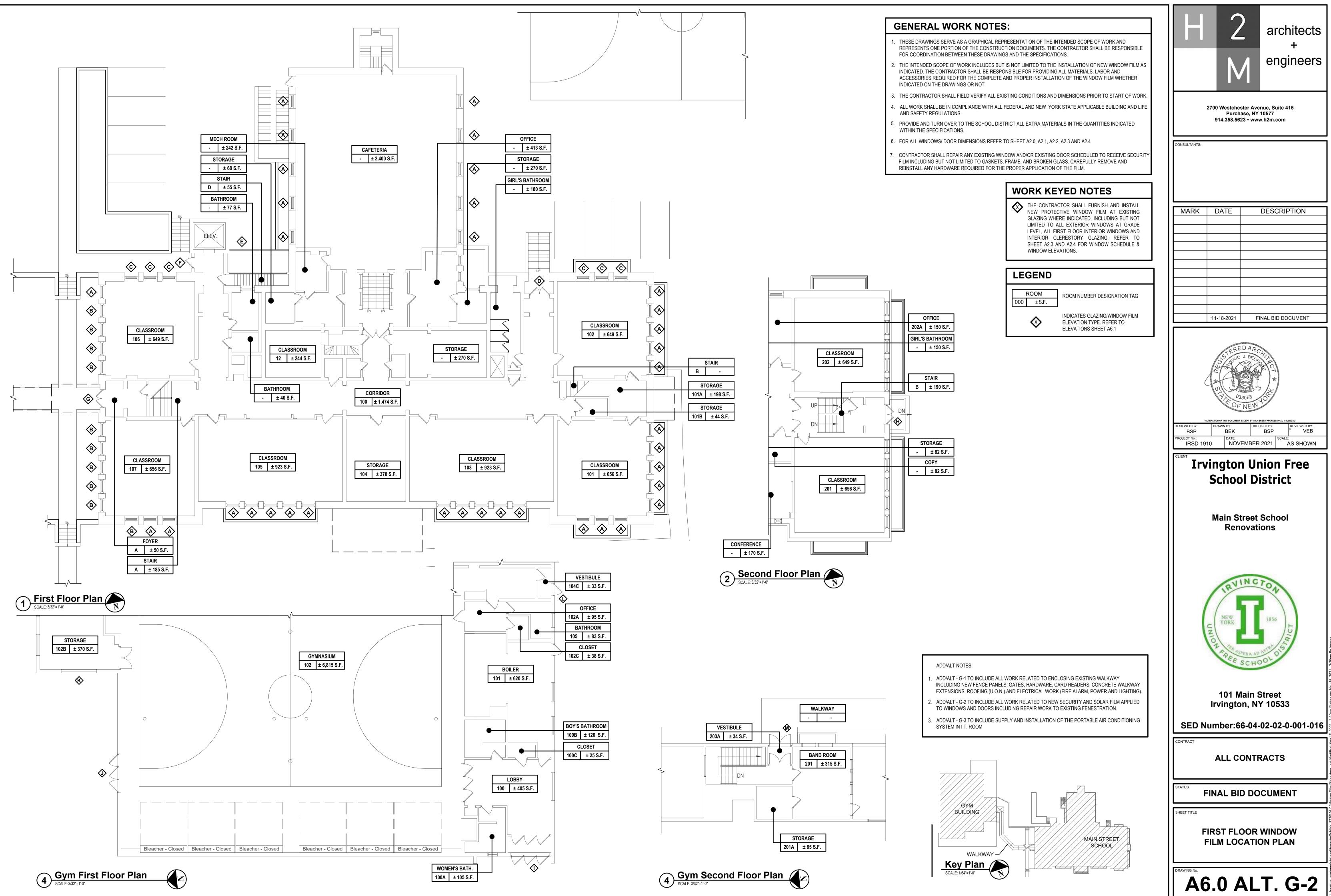
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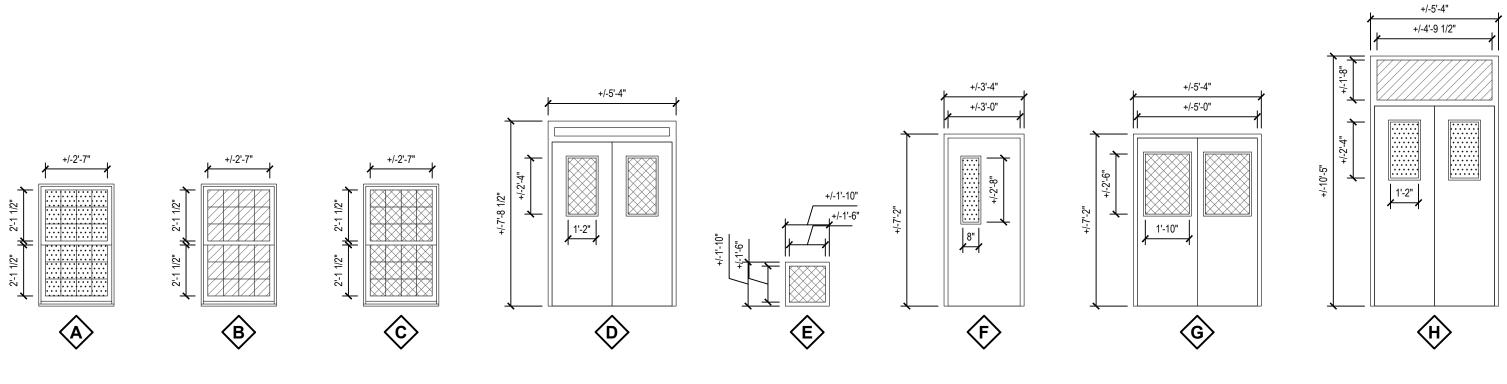


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MAIN S	STREET SCHOOL -	FIRST FL	OOR			TOTAL W			OW TYPE	
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101	CLASSROOM 101	A	8	± 3'-0"	± 4'-6"	± 88 SF				EXISTING WIN
102	CLASSROOM 102	Α	5	± 3'-0"	± 4'-6"	± 55 SF				EXISTING WIN
102	CLASSROOM 102	С	3	± 3'-0"	± 4'-6"			±33 SF		EXISTING WIN
103	CLASSROOM 103	Α	5	± 3'-0"	± 4'-6"	± 55 SF				EXISTING WIN
105	CLASSROOM 105	A	5	± 3'-0"	± 4'-6"	± 55 SF				EXISTING WIN
		A	1	± 3'-0"	± 4'-6"	± 11 SF				EXISTING WIN
106	CLASSROOM 106	В	4	± 3'-0"	± 4'-6"		± 44 SF			EXISTING WIN
		С	3	± 3'-0"	± 4'-6"			± 33 SF		EXISTING WIN
	FOYER	G	1	± 5'-4"	± 7'-2"			± 10 SF		EXISTING WIN
407	01 400 D00 M 407	A	2	± 3'-0"	± 4'-6"	± 22 SF				EXISTING WIN
107	CLASSROOM 107	В	6	± 3'-0"	± 4'-6"		± 66 SF			EXISTING WIN
	STAIR D	E	5	± 1'-6"	± 1'-6"			± 15 SF		EXISTING WIN
	CAFETERIA	A	10	± 3'-0"	± 4'-6"	± 110 SF				EXISTING WINI
MAIN S	STREET SCHOOL -	SECOND	FLOOR			TOTAL W			OW TYPE	
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	STAIR B	н	1	± 5'-4"	± 10'-5"	± 6 SF	± 8 SF			EXISTING WINI

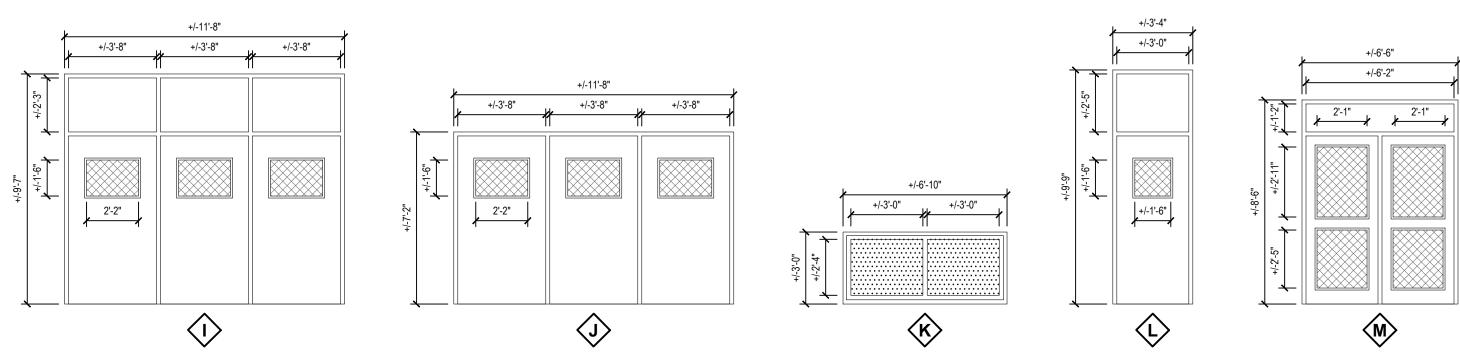


# 1 Main Street School Window / Door Elevations

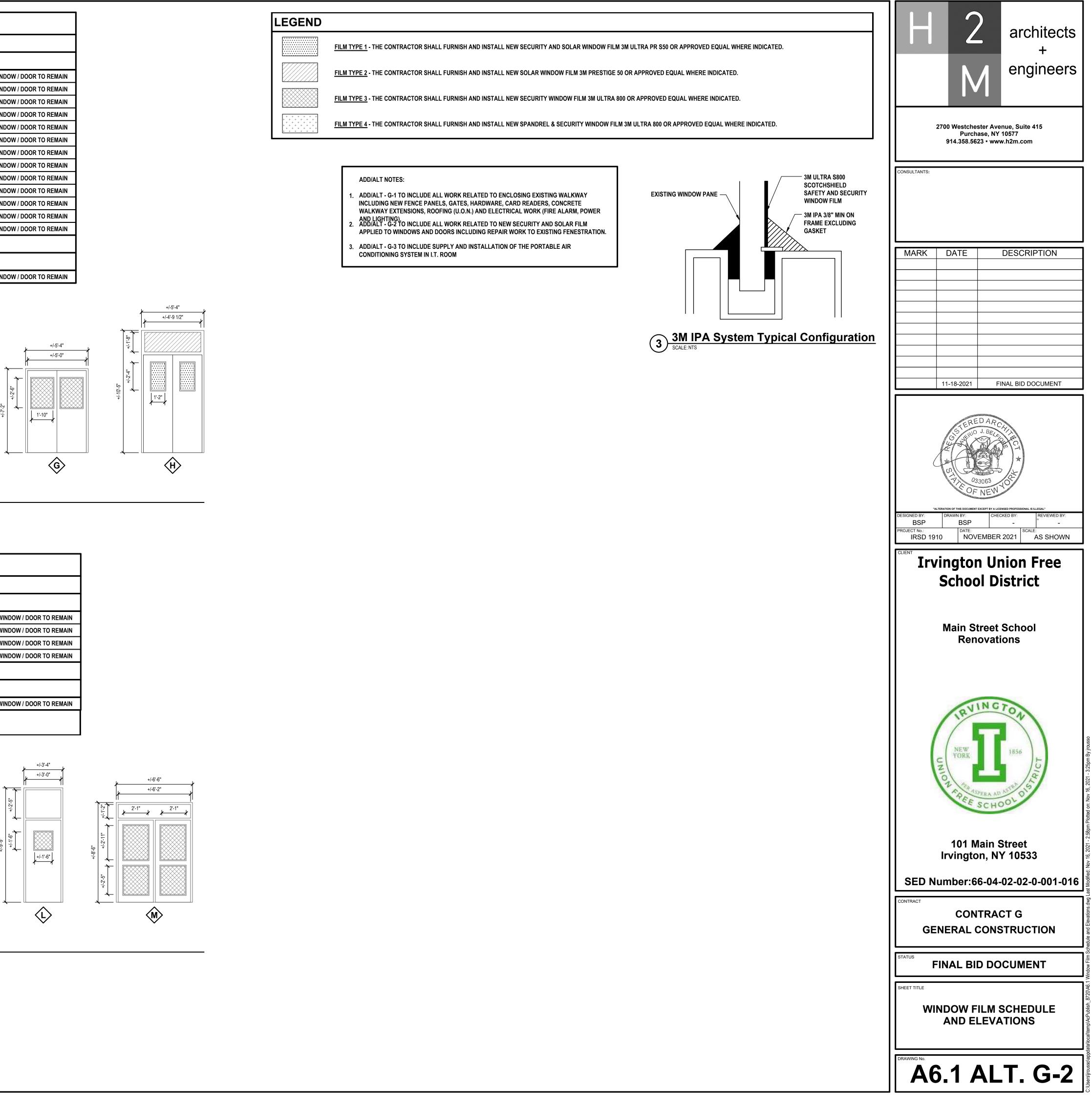
## WINDOW FILM SCHEDULE

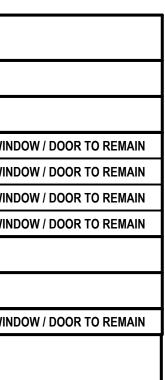
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NO.	ROOM NAME	TIPE	QIT.	WIDTH	HEIGHT	S.F. ESTIMATE	S.F. ESTIMATE	S.F. ESTIMATE	S.F. ESTIMATE	REMARKS
100	LOBBY 100	I	1	± 2'-2"	± 1'-6"			± 10 SF		EXISTING WIN
102	GYMNASIUM	J	1	± 2'-2"	± 1'-6"			± 10 SF		EXISTING WIN
102B	STORAGE 102B	к	1	± 3'-0"	± 2'-4"	± 14 SF				EXISTING WIN
104C	VESTIBULE 104C	L	1	± 1'-6"	± 1'-6"			± 3 SF		EXISTING WIN
MAIN S	STREET SCHOOL O	GYM - UPF	PER FLOO	DR		TOTAL W		I PER WIND	OW TYPE	
ROOM	ROOM NAME	ТҮРЕ	QTY.	OPI	ENING	FILM TYPE-1	FILM TYPE-2	FILM TYPE-3	FILM TYPE-4	
NO.		TIPE	QII.	WIDTH	HEIGHT	S.F. ESTIMATE	S.F. ESTIMATE	S.F. ESTIMATE	S.F. ESTIMATE	REMARKS
203A	VESTIBULE 203A	Α	1	± 6'-0"	± 7'-0"			± 22 SF		EXISTING WIN

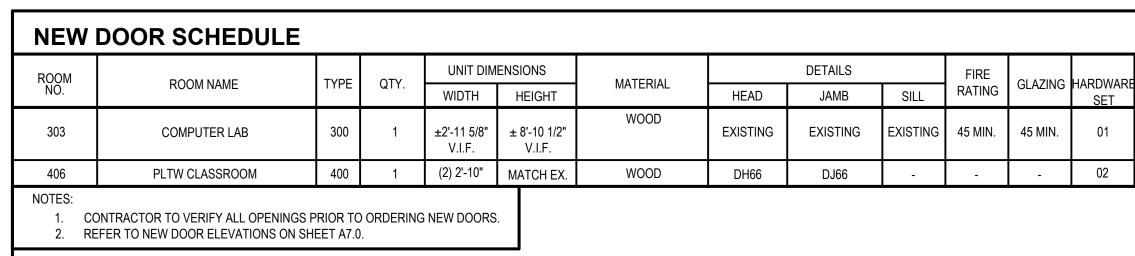
1. VERIFY SIZE OF OPENING IN FIELD. SEE DETAILS FOR WINDOW TYPES AND FURTHER INFORMATION



2 Main Street School Gym Window / Door Elevations

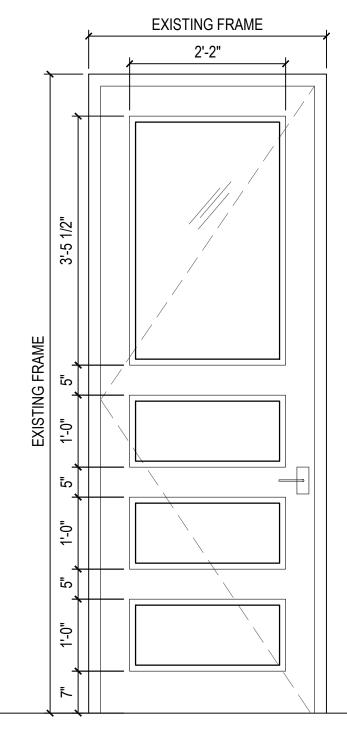




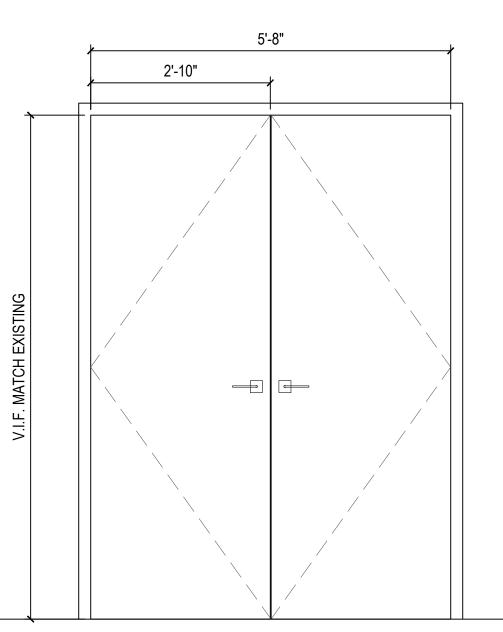


## **FINISH SCHEDULE**

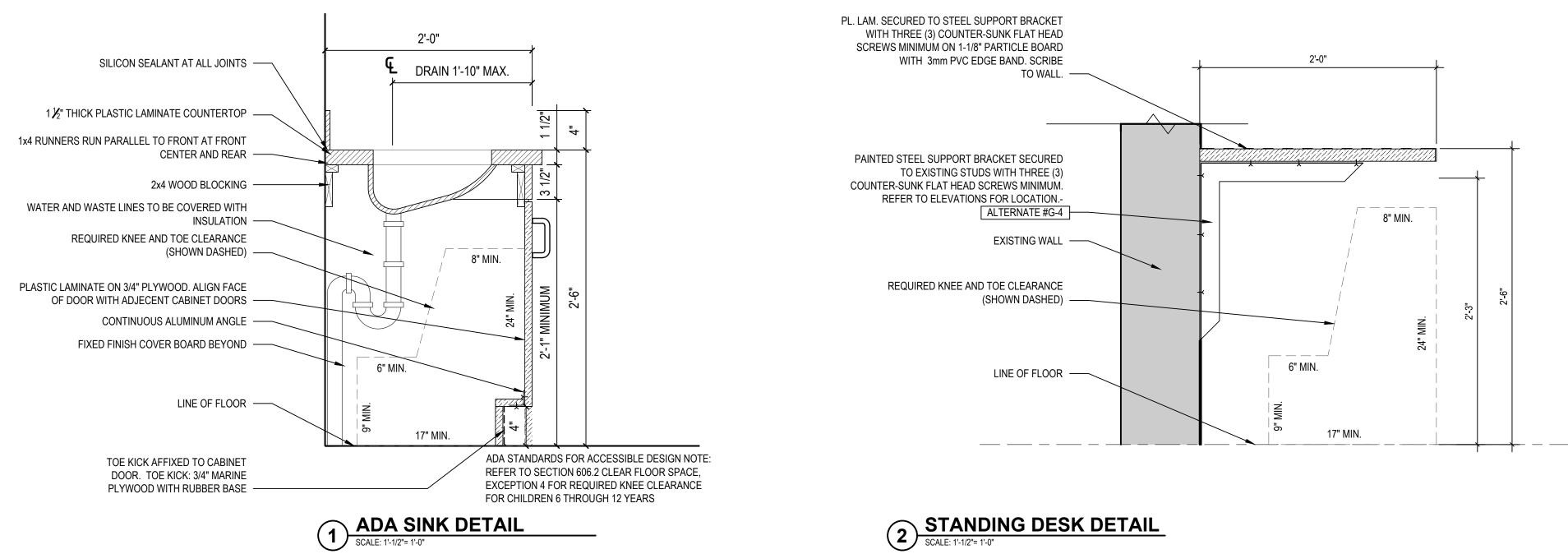
		DACE	NORTH	HWALL	EAST	WALL	SOUTH	WALL	WEST	WALL
ROOM NAME / NO.	FLOOR FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
COMPUTER LAB / 303	VCT	PVC VINYL	GYP.	PAINT	GYP.	PAINT	GYP.	PAINT	GYP.	PAINT
PLTW CLASSROOM / 406	VCT	PVC VINYL	GYP.	PAINT	GYP.	PAINT	GYP.	PAINT	GYP.	PAINT
I.T. ROOM / -	-	-	-	-	-	-	-	-	-	-
CLASSROOM / 404	-	-	-	-	-	-	-	-	-	-
LIBRARY / 305	-	-	-	-	GYP.	PAINT	-	-	-	-
SECOND FLOOR GIRLS BATHROOM	-	TILE (MATCH EXISTING V.I.F.)	-	•	-	-	-	•	M.R. GYP.	TILE/ PAINT
THIRD FLOOR GIRLS BATHROOM	-	TILE (MATCH EXISTING V.I.F.)	-	-	-	-	-	-	M.R. GYP.	TILE / PAINT



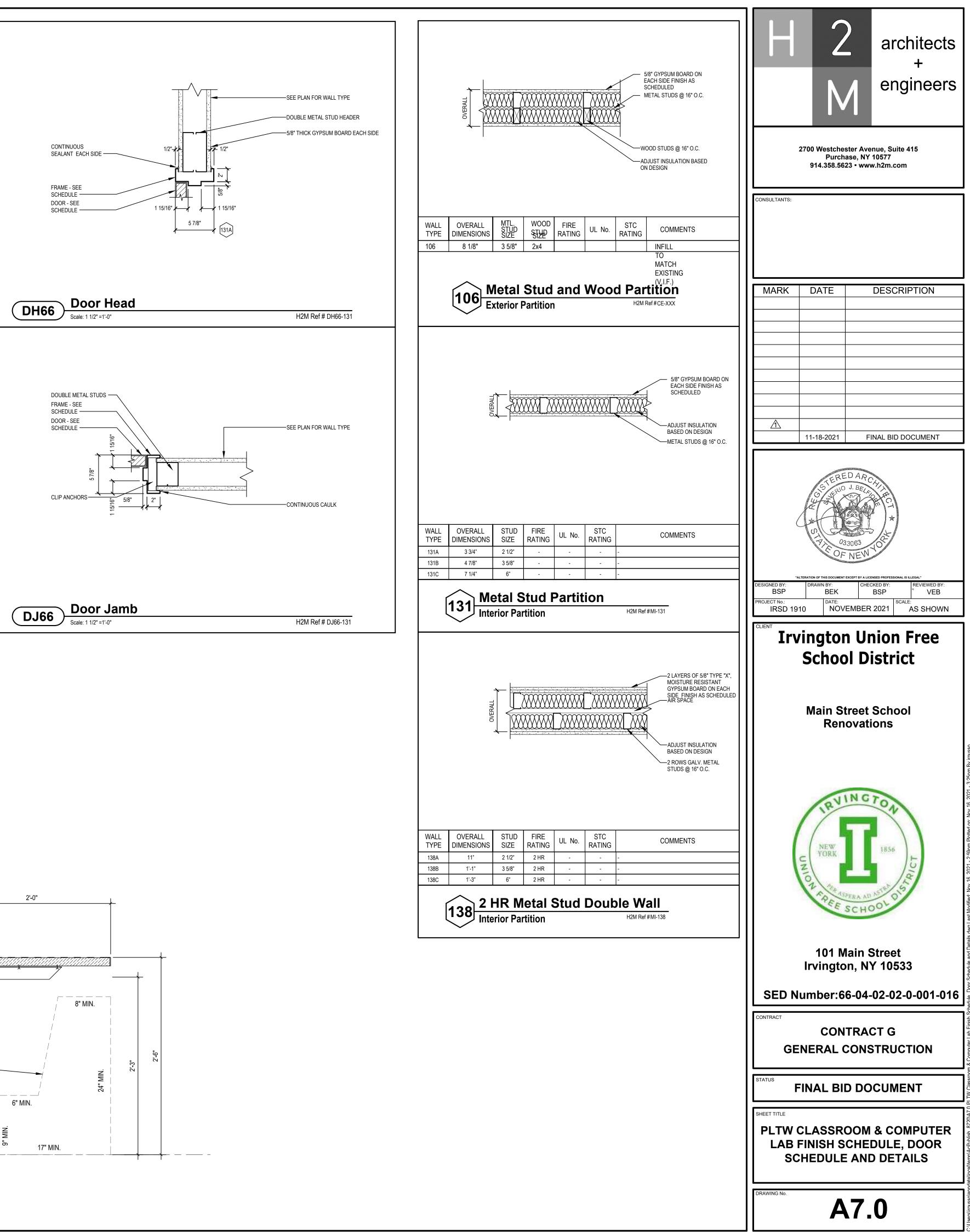
DOOR TYPE: 300



DOOR TYPE: 400



COMMENTS	
SEE SPEC SECTION 0880 FIRE-RESISTANCE-RATEL FOR ADDITIONAL INFORM	D GLAZING
	]
CEILING	REMARKS
EXISTING A.C.T. TO REMAIN	
EXISTING A.C.T. TO REMAIN	
-	-
-	-
EXISTING A.C.T. TO REMAIN	PAINT AT WINDOW TO BE REMOVED
EXISTING A.C.T. TO REMAIN	EXISTING WALL HAS LEAD BASED PAINT. SEE ENVIRONMENTAL REPORT FOR MORE INFORMATION
EXISTING A.C.T. TO REMAIN	EXISTING WALL HAS LEAD BASED PAINT. SEE ENVIRONMENTAL REPORT FOR MORE INFORMATION
	GYP. = GYPSUM WALLBOARD



	/IATIONS
AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BTU	BRITISH THERMAL UNIT
CFH	
CFM	
CLG	CEILING
COMM.	
(D)	
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
DX	DIRECT EXPANSION
'E'	ELECTRICAL CONTRACTOR
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H20	FEET OF WATER
'G'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
H	HEIGHT
'H'	HVAC CONTRACTOR
HP IN.	HORSEPOWER
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
L	LENGTH
LAT	
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LDB	LEAVING DRY BULB TEMPERATURE
LPR	STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
Μ	METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	
MIN	
MNF	
N.C.	
N.O.	NORMALLY OPEN
NFPA NPT	NATIONAL FIRE PROTECTION ASSOCIATION
NPT	NOT TO SCALE
0AI	OUTDOOR AIR INTAKE
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACTOR
(P)	PROPOSED
PD	PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
	REDUCED PRESSURE ZONE
RPZ	
	SUPPLY AIR TEMPERATURE
RPZ	SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING
RPZ SAT	
RPZ SAT SEER	SEASONAL ENERGY EFFICIENCY RATING
RPZ SAT SEER TEMP	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE
RPZ SAT SEER TEMP TG	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE
RPZ SAT SEER TEMP TG TYP	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL
RPZ SAT SEER TEMP TG TYP VFD	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL VARIABLE FREQUENCY DRIVE

DUCTWORK LEGEND			PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
		DUCTWORK BRANCH CONNECTION			NEW WORK
			C O		PIPING DOWN/ PIPING UP
	VD	VOLUME DAMPER	<b>●</b> -C		BALL VALVE WITH HOSE END CONNECTION
	CD	ROUND FACE SUPPLY DIFFUSER	Q	ТН	THERMOMETER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTER		U	UNION
	SEE AIR DEVICE	SQUARE FACE SUPPLY DIFFUSER		FPC	FLEXIBLE PIPE CONNECTION DIRECTION OF FLOW
	SCHEDULE SEE AIR DEVICE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER		PSR	PRESSURE SAFETY AND RELIEF VALVE
	SCHEDULE FC	FLEXIBLE CONNECTION		PRV	PRESSURE REDUCING VALVE
			-6-	BV	BALL VALVE
		TURNING VANES		ВА	BALANCING VALVE
		RECTANGULAR TO ROUND TRANSITION	lī —fj—	BFV	BUTTERFLY VALVE
	AL	ACOUSTICAL LINING	1		TEMPERATURE SENSOR WITH THERMOWELL
				GA	GATE VALVE
		END CAP		GB	GLOBE VALVE
X	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)	<u> </u>	AV	AUTOMATIC AIR VENT
		SUPPLY DUCT DROP (TURN DOWN)		cv	2-WAY ELECTRONIC CONTROL VALVE
		RETURN/EXHAUST DUCT DROP (TURN DOWN)		CV	3-WAY ELECTRONIC CONTROL VALVE
					2-WAY PNEUMATIC CONTROL VALVE
		SUPPLY DUCT RISE			3-WAY PNEUMATIC CONTROL VALVE
		RETURN/EXHAUST DUCT RISE			STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
DSD 🗖	DSD	DUCT SMOKE DETECTOR	● , j´ s	FD	FLOOR DRAIN AIR SEPARATOR
M	MD	MOTORIZED DAMPER WITH ACTUATOR			STEAM TRAPS (INDICATE TYPE)
				СН	CHECK VALVE
	AD	ACCESS DOOR	Q	PG	PRESSURE GAUGE WITH GAUGE COCK
	FD/AD	FIRE DAMPER WITH ACCESS DOOR		RED	REDUCER
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR	ı⊢	со	CLEANOUT END CAP
		FAN			PIPE GUIDE
· <u>·</u> /////,		WORK TO BE REMOVED			PIPE ANCHOR
		POINT OF DISCONNECTION FROM EXISTING			
					PUMP WORK TO BE REMOVED
•		POINT OF CONNECTION TO EXISTING			POINT OF DISCONNECTION FROM EXISTING
CONTROLS LEGEND					POINT OF CONNECTION TO EXISTING
SYMBOL	ABBREV	DESCRIPTION	<u> </u>	TDV	TRIPLE DUTY VALVE
C		CARBON MONOXIDE SENSOR		ישו	

CONTROLS LEGEND				
SYMBOL	ABBREV	DESCRIPTION		
C		CARBON MONOXIDE SENSOR		
T		THERMOSTAT		
S		DIGITAL TEMPERATURE SENSOR		
H		HUMIDITY SENSOR		
<b>C</b> 2		CARBON DIOXIDE SENSOR		
P		PRESSURE SENSOR		

### **GENERAL ASBESTOS ABATEMENT NOTES:**

I. ALL ASBESTOS ABATEMENT WORK SHALL CONFORM TO ALL APPLICABLE CODE REQUIREMENTS ALONG WITH SPECIFICATION SECTION 028200 AND INDUSTRIAL CODE RULE 56.

2. ALL MATERIALS ASSOCIATED WITH THIS PROJECT HAVE BEEN TESTED FOR THE PRESENCE OF ASBESTOS. SEE SPECIFICATION SECTION 022600 - HAZARDOUS MATERIAL ASSESSMENT FOR LOCATIONS OF MATERIALS THAT HAVE BEEN

TESTED POSITIVE. 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM PERSONAL AIR MONITORING ON ITS EMPLOYEES IN ACCORDANCE WITH OSHA REGULATIONS.

4. THIRD PARTY PROJECT MONITORING AND AIR SAMPLING SHALL BE CONDUCTED BY A CONSULTANT FIRM HIRED DIRECTLY BY THE OWNER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE TO FILE FOR ALL PERMITS AND NOTIFY ALL REGULATORY AGENCIES AS REQUIRED FOR THE WORK AND PAY ALL FEES ASSOCIATED WITH THE AFOREMENTIONED.

6. UPON COMPLETION OF THE DEMOLITION WORK, THE CONTRACTOR SHALL SUBMIT COPIES OF ALL WASTE MANIFEST AND LANDFILL RECEIPTS TO THE ARCHITECT AS PART OF THE REQUIRED CLOSEOUT DOCUMENTS.

ALL OPENINGS AND PENETRATIONS INCLUDING BUT NOT LIMITED TO WINDOWS, DOORS, DUCTS, LOUVERS AND GRILLES WITHIN OR OPEN TO THE ROOF AREA SHALL BE COVERED WITH A MINIMUM OF TWO (2) LAYERS OF 6 MIL PLASTIC.

8. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING HVAC EQUIPMENT AND ROOF VENTS.

20. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT/ENGINEER. 21. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED

### WORK IN EXISTING AREAS

1. INSTALL SMOKE DETECTORS IN DUCTWORK FOR AIR HANDLING UNITS RATED AT 2,000 CFM OR GREATER. SMOKE DETECTOR SUPPLY AND WIRING IS PART OF CONTRACT 'E'.

2. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.

3. FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN INTERIOR MASONRY WALLS FOR INSTALLATION BY CONTRACT 'G'.

4. FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR INSTALLATION BY CONTRACT 'G'.

5. FURNISH ALL CURBS FOR ALL ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS FOR INSTALLATION BY CONTRACT 'G'.

6. REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.

7. PERFORM ALL CUTTING AND ROUGH PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK. FINISH PATCHING AND FLASHING IS PART OF CONTRACT 'G'.

### **GENERAL NOTES**

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

2. THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.

3. PERFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.

5. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR DUCTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.)

6. DO NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S REQUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS SHALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.

7. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

8. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.

9. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.

10. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.

11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.

12. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.

13. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

14. COORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.

15. COMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS APPLIED.

16. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.

17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.

18. PROVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.

19. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION SECTION 230719 FOR ADDITIONAL REQUIREMENTS.

SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

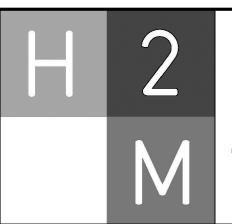
1. EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.

2. CUT AND ROUGH PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. FINISH PATCHING AND FLASHING REQUIREMENTS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. PERFORM ALL CUTTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTEES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

### CONTRACT 'H' SCOPE NOTES

### LEGENDS/ABBREVIATIONS NOTES

1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.

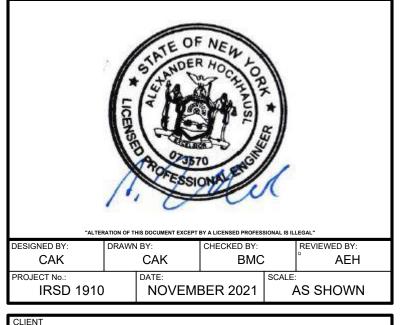


architects engineers

2700 Westchester Avenue, Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com

ONSULTANTS:

MARK	DATE	DESCRIPTION
	11-18-2021	FINAL BID DOCUMENT



## **Irvington Union Free School District**

Main Street School Renovations



**101 Main Street** Irvington, NY 10533

SED Number:66-04-02-02-0-001-016

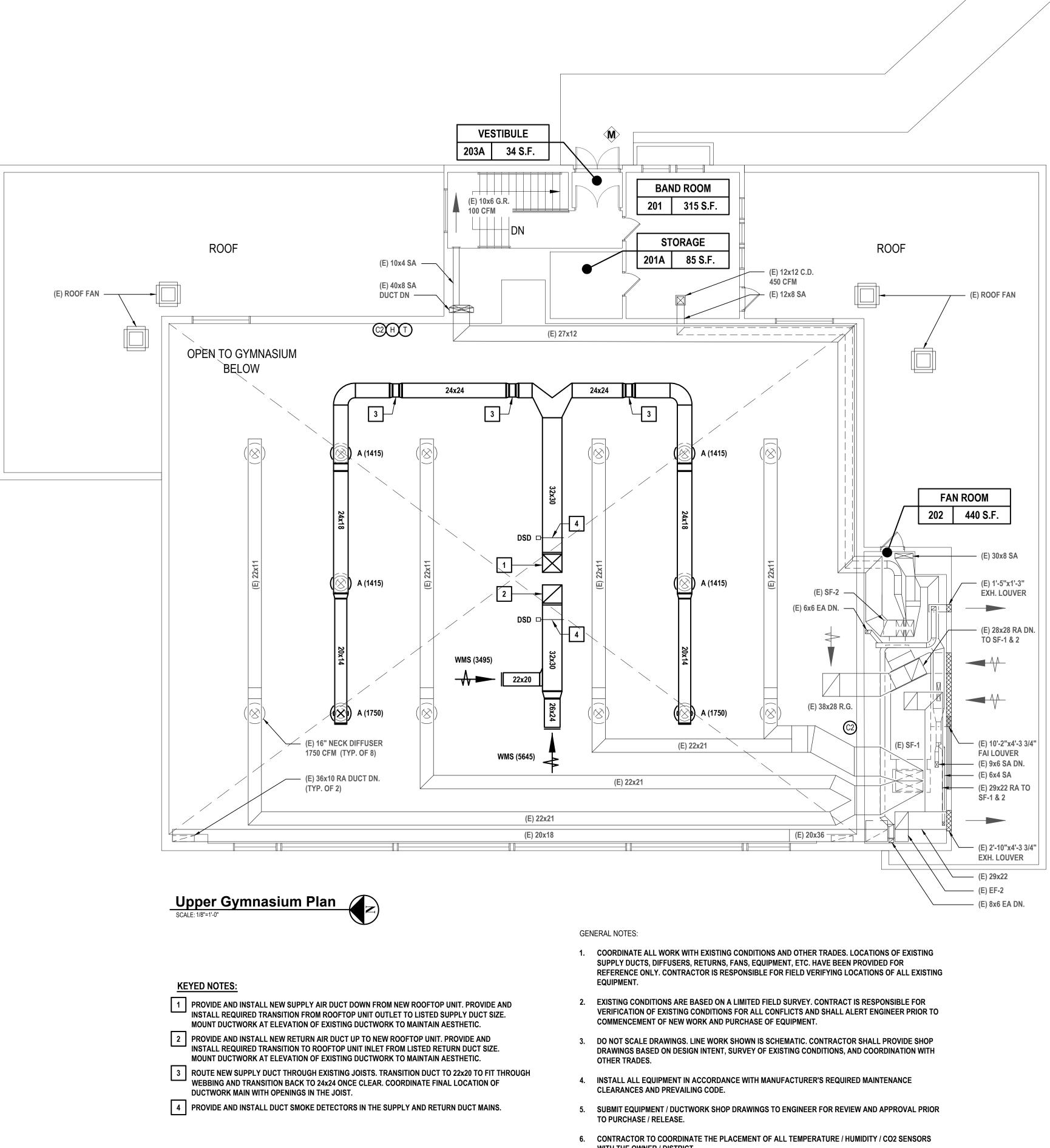
CONTRACT G **GENERAL CONSTRUCTION** 

FINAL BID DOCUMENT

CONTRACT

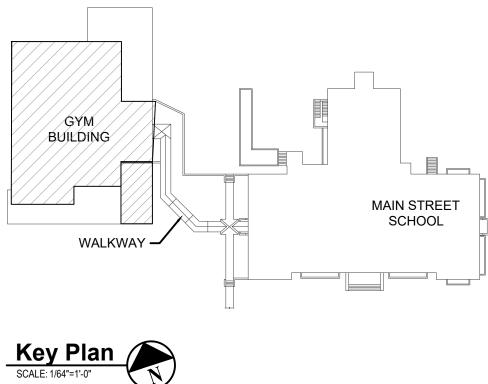
HVAC LEGENDS, SYMBOLS, ABBREVIATIONS, AND **GENERAL NOTES** 

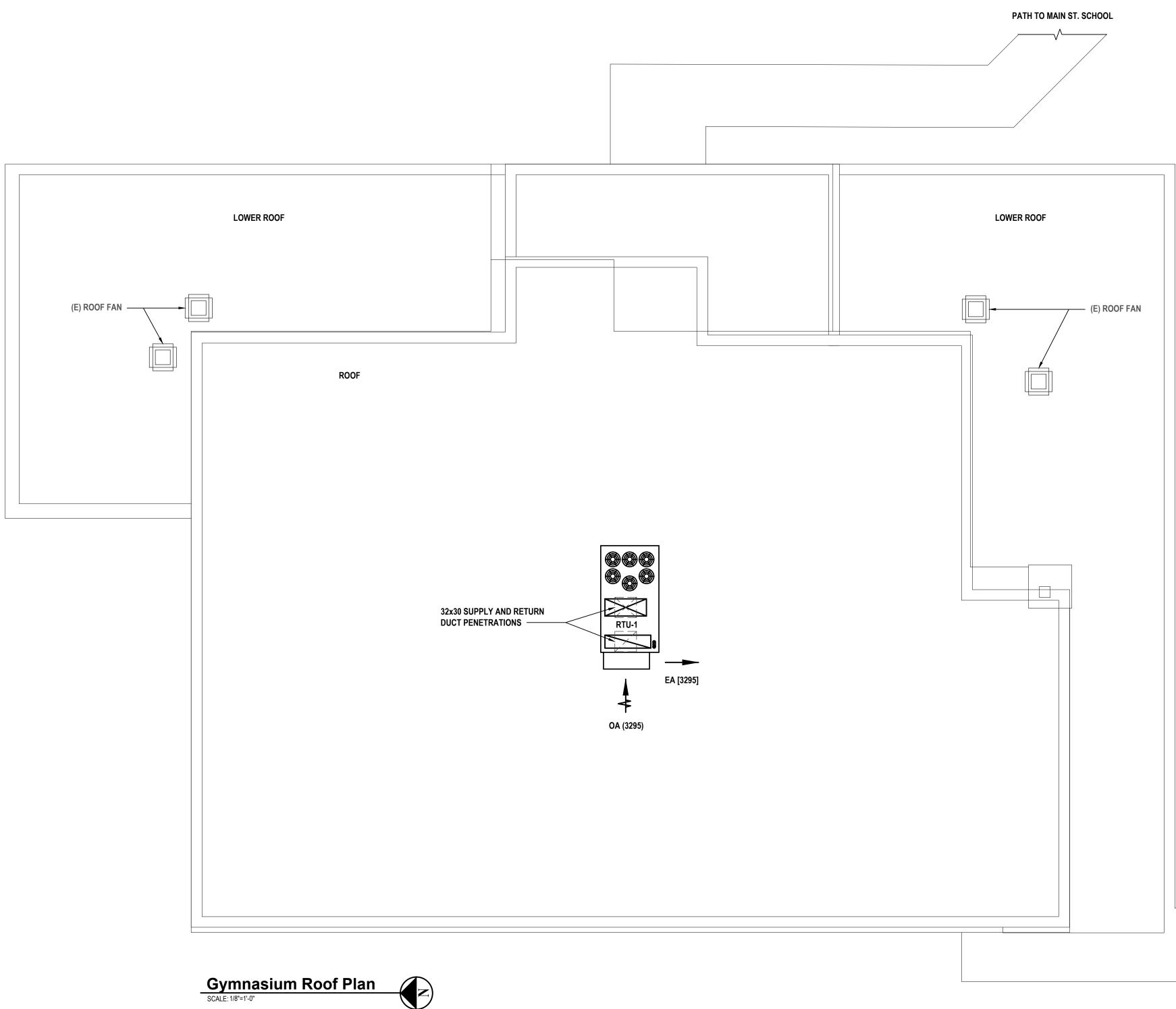
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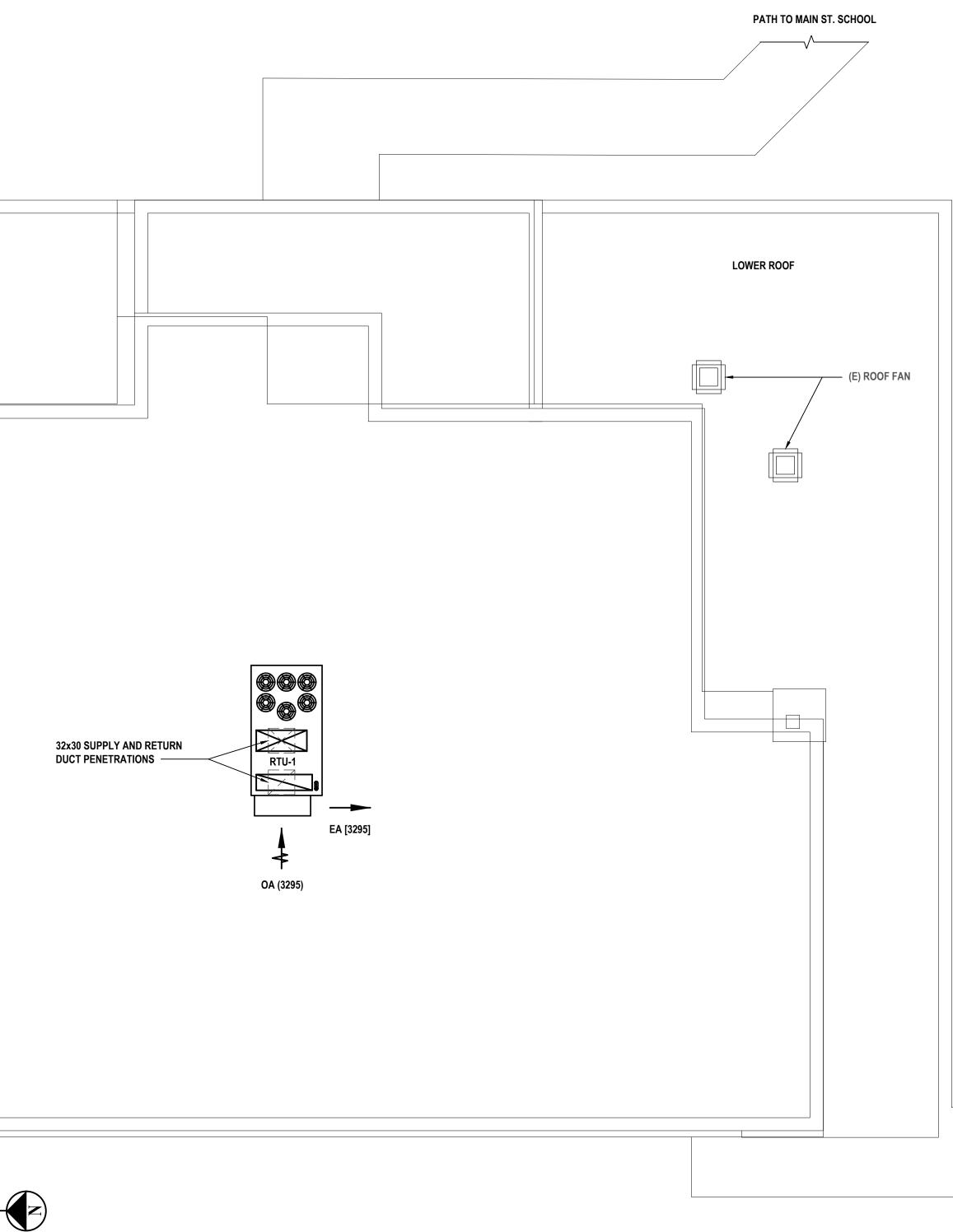


- WITH THE OWNER / DISTRICT.
- 7. ALL EXISTING HEATING AND VENTILATION EQUIPMENT, DUCTWORK, DIFFUSERS, ETC. ARE TO REMAIN.

 	_			1
Η	2	)	architects +	
	N	1	engineers	
	2700 Westches Purch 914.358.562	ase, NY 1	10577	
CONSULTANTS:				
MARK	DATE		DESCRIPTION	]   
	11-18-2021	FII	NAL BID DOCUMENT	
	To The Property of the Propert	OF NE DER HO	JENNINGER ANDOLY	
DESIGNED BY: CAK	DRAWN BY:		ISED PROFESSIONAL IS ILLEGAL* KED BY: REVIEWED BY: BMC AEH	
PROJECT No.: IRSD 19	10 DATE: NOV	EMBER	2021 AS SHOWN	
	vingtor Schoo		ion Free strict	
	Main St Ren	treet : ovati		1 - 4:40pm By ckurilko
	UNION REW YORK	Th	1856 LOIAL	SIUM CONSTRUCTION PLAN.dwg Last Modified: Oct 18, 2021 - 3:01pm Plotted on: Oct 18, 2021 - 4:40pm By ckurilko
	101 M Irvingto	lain S		MNASIUM CONSTRUCTI
SED N	umber:6	6-04-(	02-02-0-001-016	C UPPER GYN
	CON <sup>.</sup> NERAL C		T G TRUCTION	M-CADD\hvac\H1.0 HVA
 STATUS	INAL BI	D DO	CUMENT	10vations)\02-E
	_	_	YMNASIUM ON PLAN	RSD (Irvington UFSD)\IRSD 1910 (Main St. School Renovations)\02-BIM-CADD\Invac\H1.0 HVAC UPPER GYMNA
DRAWING No.	Η	11.	0	SD (Irvington UF.





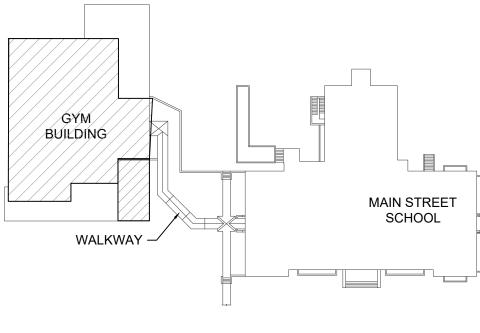


GENERAL NOTES:

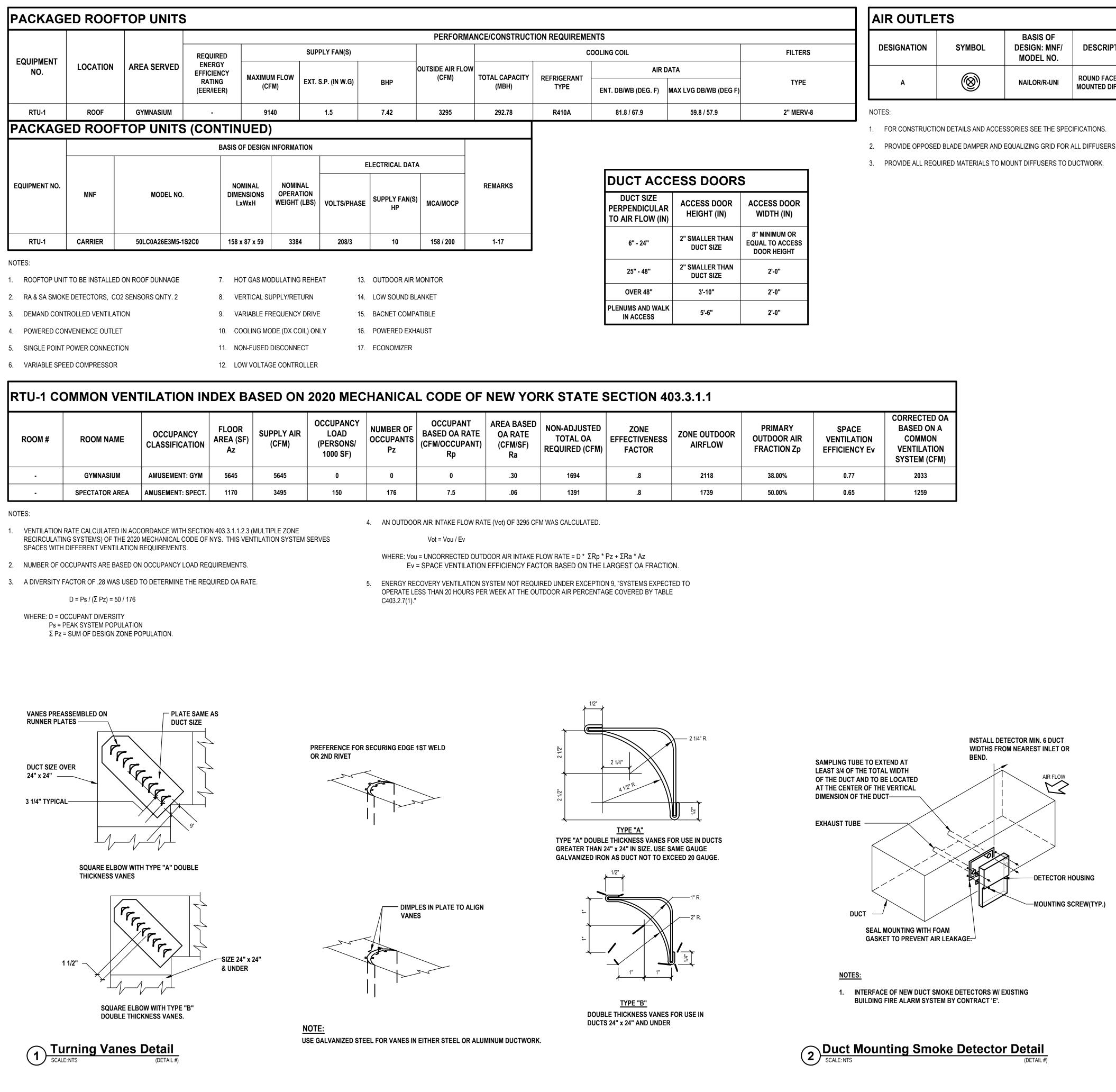
- 1. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND OTHER TRADES. LOCATIONS OF EXISTING ROOFTOP EQUIPMENT HAVE BEEN PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATIONS OF ALL EXISTING EQUIPMENT.
- 2. CONTRACTOR TO INSTALL NEW ROOFTOP UNIT IN COMPLIANCE WITH MANUFACTURER'S REQUIRED MAINTENANCE CLEARANCES, AND APPLICABLE MECHANICAL CODE CLEARANCE REQUIREMENTS.
- 3. SUBMIT EQUIPMENT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE. DO NOT SCALE DRAWINGS. LINE-WORK SHOWN IS SCHEMATIC.
- 4. TERMINATE ROOFTOP UNIT CONDENSATE LINES AT THE NEAREST ROOF DRAIN (IF FEASIBLE).
- 5. CONTRACTOR TO PROVIDE SEISMIC/WIND RATED ROOF CURB MANUFACTURED THYBAR OR APPROVED EQUAL.
- 6. CONTRACTOR TO PROVIDE PROJECT SPECIFIC ROOF CURB DESIGNED IN ACCORDANCE WITH WIND LOADS PROVIDED ON DRAWINGS, SIGNED AND SEAL BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE ROOF CURB MANUFACTURER.

Н	2	)	archite +		
	N		engine	eers	
	2700 Westches Purch 914.358.562	ase, NY	10577		
CONSULTANTS:					
MARK	DATE		DESCRIPTIC	DN	
	11-18-2021	FI	NAL BID DOCUM	ENT	
DESIGNED BY:	DRAWN BY:	1	0		
DESIGNED BY:     DRAWN BY:     CHECKED BY:     REVIEWED BY:       CAK     BMC     °     AEH       PROJECT No.:     DATE:     SCALE:       IRSD 1910     NOVEMBER 2021     AS SHOWN					
CLIENT					
UNION NEW 1856 YORK 1856 DUNON ASPERA AD ASTRE DISC					
	101 M Irvingto				
SED N	umber:6	6-04-	02-02-0-00	01-016	
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		-	-		
			IUM ROOI ON PLAN		
DRAWING No.	Η	1.	1		

WIND LOADS (MC 301.15 & BC 1609)				
ZONE ID	POSITIVE WIND PRESSURE (PSF)	NEGATIVE WIND PRESSURE (PSF)		
ROOF (INT. ZONE)	11.3	-44.1		
ROOF (END ZONE)	11.3	-58.2		
ROOF (CORNER ZONE)	11.3	-79.4		
WALLS (INT. ZONE)	27.7	-30.1		
WALLS (END ZONE)	27.7	-37.1		



Key Plan SCALE: 1/64"=1'-0"



٨E	NTS		
COOLING COIL			FILTERS
	AIR D	ΑΤΑ	
	ENT. DB/WB (DEG. F) MAX LVG DB/WB (DEG F)		ТҮРЕ
	81.8 / 67.9	59.8 / 57.9	2" MERV-8

AIR OUTLE	TS				
DESIGNATION	SYMBOL	BASIS OF DESIGN: MNF/	DESCRIPTION	FACE SIZE (IN)	
	0.1	MODEL NO.		( )	
A	$\otimes$	NAILOR/R-UNI	ROUND FACE DUCT MOUNTED DIFFUSER	34" DIA	

DUCT ACCESS DOORS				
DUCT SIZE PERPENDICULAR TO AIR FLOW (IN)	ACCESS DOOR HEIGHT (IN)	ACCESS DOOR WIDTH (IN)		
6" - 24"	2" SMALLER THAN DUCT SIZE	8" MINIMUM OR EQUAL TO ACCESS DOOR HEIGHT		
25" - 48"	2" SMALLER THAN DUCT SIZE	2'-0"		
OVER 48"	3'-10"	2'-0"		
PLENUMS AND WALK IN ACCESS	5'-6"	2'-0"		

ATE S	TE SECTION 403.3.1.1				
USTED OA D (CFM)	ZONE EFFECTIVENESS FACTOR	ZONE OUTDOOR AIRFLOW	PRIMARY OUTDOOR AIR FRACTION Zp	SPACE VENTILATION EFFICIENCY Ev	CORRECTED OA BASED ON A COMMON VENTILATION SYSTEM (CFM)
Ļ	.8	2118	38.00%	0.77	2033
I	.8	1739	50.00%	0.65	1259

SCREWS-

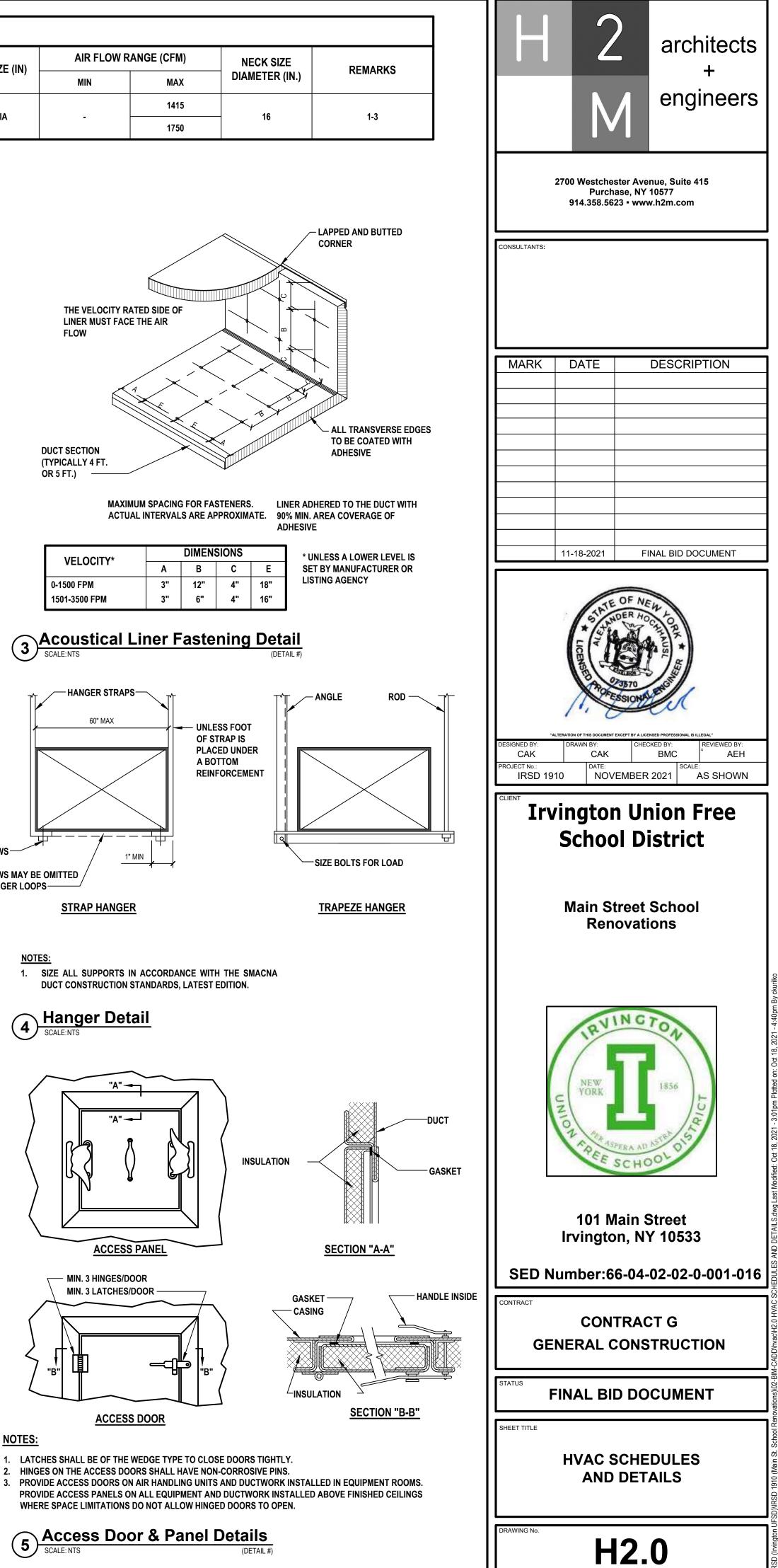
SCREWS MAY BE OMITTED IF HANGER LOOPS-

NOTES:





NOTES:



LE	GEND
SYMBOL	DESCRIPTION
·	PIPING UP
C	PIPING DOWN
(	PIPING RISE OR DROP
( )	BRANCH-TOP CONNECTION
<u> </u>	BRANCH-BOTTOM CONNECTION
	REDUCER
	CLEANOUT
· · · · · · · · · · · · · · · · · · ·	
	CAPPED PIPE
(M)	METER
	FLOOR DRAIN
Ŷ	AQUASTAT
	PUMP
	STRAINER
	UNION
───────────	THERMOSTATIC MIXING VALVE
Ċ	BALANCING VALVE (BLV)
	GLOBE VALVE (GLV)
N	CHECK VALVE (CV)
K	GAS COCK, GAS STOP
ю	BALL VALVE (BV)
	BUTTERFLY VALVE (BFV)
· 乎 · 。 、 、	SOLENOID VALVE
	PRESSURE-REDUCING VALVE (PRV)
	PRESSURE-RELIEF VALVE (RV)
-×+	BACKFLOW PREVENTER
^	FROST FREE HOSE BIBB
₹₹	RECESSED-BOX HOSE BIBB OR WALL HYDRANT
	EXPANSION JOINT
₽	WATER HAMMER ARRESTER
нЮ	VALVE IN RISER
	WALL CLEANOUT (WCO)
<u>→</u>	PITCH DOWN OR UP IN DIRECTION OF ARROW
	FLOW IN DIRECTION OF ARROW
·	COLD WATER (CW)
	TEMPERED WATER (TW)
	HOT WATER (HW)
	TEMPERED WATER RETURN (TWR)
	HOT WATER RETURN (HWR)
	WASTE PIPING (W,S,OW)
	BELOW SLAB WASTE PIPING
	VENT PIPING (V)
	GAS PIPING (G)
+++++	PIPING / EQUIPMENT TO BE REMOVED
<b>←●</b>	POINT OF CONNECTION
	POINT OF DISCONNECTION

	ABBREVIATIONS
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CLG	CEILING
CO	CLEAN OUT
CODP	CLEAN OUT DECK PLATE
COWP	CLEAN OUT WALL PLATE
CW	COLD WATER
(D)	DEMOLISH
DCV	DOUBLE CHECK VALVE DEVICE
DEG. F	° FAHRENHEIT
DIA	DIAMETER
DN	DOWN
(E)	EXISTING
EA	EACH
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
G	GAS
'GC'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
IN.	INCHES
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
LBS	POUNDS
М	METER
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
OD	OUTER DIAMETER
(P)	PROPOSED
'P'	PLUMBING CONTRACTOR
PD	PRESSURE DROP
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAN / S	SANITARY
ST	STORM DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
TW	TEMPERED WATER (110°F)
TWR	TEMPERED WATER RETURN
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE

- OF BIDS.
- REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- INSTALLATIONS.

- EQUIPMENT IS REQUIRED.
- AND EQUIPMENT INSTALLATION REQUIREMENTS.
- CERTIFIED ACCURACY.

- MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- OTHERWISE INDICATED ON THE DRAWINGS.
- ARRESTERS, ETC. READILY ACCESSIBLE.
- JURISDICTION.

- FOOTING PENETRATIONS.

- 29. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
- LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.
- 32. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED FOR LOW LEAD.
- PROVISIONS.

- LEAD IN WATER REGULATION (10 NYCRR 67-4).
- THE OTHER ONE TO THE OWNER.

## **GENERAL PLUMBING NOTES**

PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION

PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING (NYSPC), FIRE (NYSFC), MECHANICAL (NYSMC), ENERGY CONSERVATION CONSTRUCTION (NYSECC), AND FUEL GAS (NYSFGC) CODE AND THE

COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL

APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.

FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.

DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.

COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.

MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

10. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.

PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR

INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING

13. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER

14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.

15. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

16. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.

MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS, PROVIDE BEAM CLAMPS

18. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4

19. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS

20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

21. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER

22. ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING

23. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL.

24. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.

25. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL

26. PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH FINISHED WALL PLATE IN FINISHED WALLS. 27. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE

NEW YORK STATE PLUMBING CODE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.

28. COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.

30. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO

31. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.

33. ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 NYSECC RESIDENTIAL AND COMMERCIAL

ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.

## **PLUMBING NOTES**

. ALL FAUCETS, FITTINGS, AND VALVES MUST COMPLY WITH NSF 61 AND ANSI / NSF 372 FOR LOW LEAD PERCENTAGE

CONTRACTOR SHALL BE RESPONSIBLE TO DEMONSTRATE COMPLIANCE WITH THE NYS DEPARTMENT OF HEALTH

AT THE CONCLUSION OF NEW PLUMBING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE SERVICES OF A THIRD PARTY NYS LICENSED ENVIRONMENTAL TESTING LABORATORY TO PROVIDE LEAD TESTING AT ALL NEW LAVATORIES. SINKS, DRINKING FOUNTAINS AND ALL OTHER FIXTURES WHERE WATER MAY BE CONSUMED FOR DRINKING. TWO COPIES OF THE REPORT MUST BE SUBMITTED, ONE COPY TO THE ENGINEER AND

## **DEMOLITION NOTES**

### GENERAL

- 1. PRIOR TO PROPOSAL SUBMISSION, THIS CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO ASCERTAIN THE DIFFICULTIES WHICH WILL AFFEC THE EXECUTION OF THE WORK OF THIS CONTRACT.
- SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE EXAMINATION HAS BEEN MAD AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE O
- DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. 3. ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.

### SCOPE OF WORK

- 1. DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER PLUMBING WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECT AND BUILDING MANAGEMENT.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNWANTED MATERIAL OFF SITE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE TO EXISTING CONDITIONS SURFACE DAMAGED DURING CONSTRUCTION INCLUDING PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT.
- 4. ALL EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH PROPOSED NEW PLUMBING (AS WELL AS ELECTRICAL, MECHANICAL AND GENERAL CONSTRUCTION WORK) SHALL BE RELOCATED AND RECONNECTED USING MATERIALS CONFORMING TO STANDARDS OF THIS CONTRACT.
- REMOVE ALL FIXTURES AS NOTED ON THE ARCHITECTURAL PLANS. PROVIDE TEMPORARY CAPS FOR HOT, COLD AND SANITARY CONNECTIONS DURING NEW CONSTRUCTION.
- REMOVE BASE BUILDING PIPING AS INDICATED BELOW:
- 6.1. REMOVE ALL ABANDONED BASE BUILDING PIPING BACK TO THE EXISTING WET COLUMNS OR SHAFTS, OR AS NOTED ON DRAWINGS. CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING REMOVAL SCOPE OF WORK TO 6.2.
- MAINTAIN CONTINUITY OF ALL SERVICES TO ALL TENANTS WHO ARE TO REMAIN OPERATIONAL AND NOT BE AFFECTED BY DEMOLITION WORK.
- 6.3. ALL EXISTING BUILDING VALVES FOR DOMESTIC WATER MAINS AT SHAFTS ARE TO REMAIN. 7. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF
- EXISTING CEILING AND PARTITIONS. 8. COORDINATE WITH OWNER TO DETERMINE WHETHER REMOVED EQUIPMENT IS TO BE TURNED OVER TO THE OWNER.

## **PLUMBING FIXTURES**

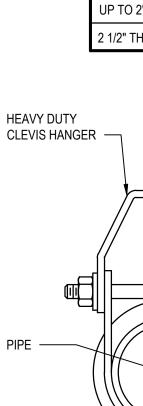
FIXTURE NO.	DESCRIPTION
SK-1	SINK - LAY IN - ELKAY MODEL LRADQ172060 - ADA COMPLIANT - 6" DEEP BOWL STAINLESS STEEL, 20"X17" - FAUCET - ELKAY MODEL LK406GN05L2 - ADA COMPLI, GOOSENECK, CHROME, 4" CENTER SET, 2" LEVER HANDLES
NOTES:	

1. CHROME PLATE ALL DRAIN PIPE, FITTINGS, P-TRAPS AND SUPPLY LINES THAT ARE EXPOSED, LOCATED WITHIN VANITIES OR AC 2. MINIMUM CONNECTION SIZES INDICATED ARE EQUIPMENT CONNECTION SIZES OR CODE MINIMUM SIZES, SEE PLANS AND DIAG

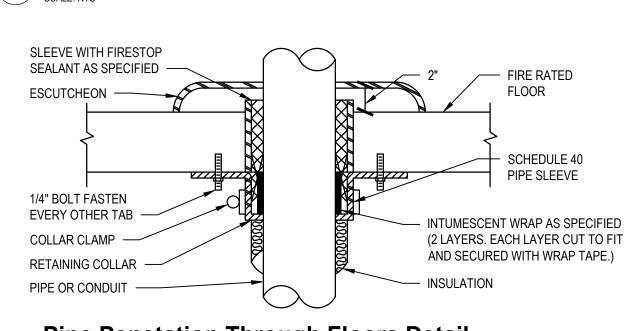
3. ALL FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTION AND BE CONNECTED TO NEAREST PLUMBING FIXTURE.

4. INSULATE EXPOSED DRAIN AND SUPPLY PIPING FOR HANDICAPPED FIXTURES WITH TRUEBRO LAV GUARD.

PIPING MATERIAL	MAX. HORIZONTAL (FT)	MAX. VERTICAL (FT)
ABS PIPE	4	10
ALUMINUM TUBING	10	15
BRASS PIPE	10	10
CAST-IRON PIPE	5	15
COPPER OR COPPER ALLOY PIPE	12	10
COPPER OR COPPER ALLOY PIPE 1¼"Ø OR SMALLER	6	10
COPPER OR COPPER ALLOY PIPE 1½"Ø OR LARGER	10	10
PEX	2.67	10
CPVC 1" OR SMALLER	3	10
CPVC 1-1/4" OR LARGER	4	10
STEEL PIPE	12	15
POLYETHYLENE /ALUMINUM/ POLYETHYLENE	2.67	4
PVC PIPE	4	10
STAINLESS STEEL DRAINAGE	10	10

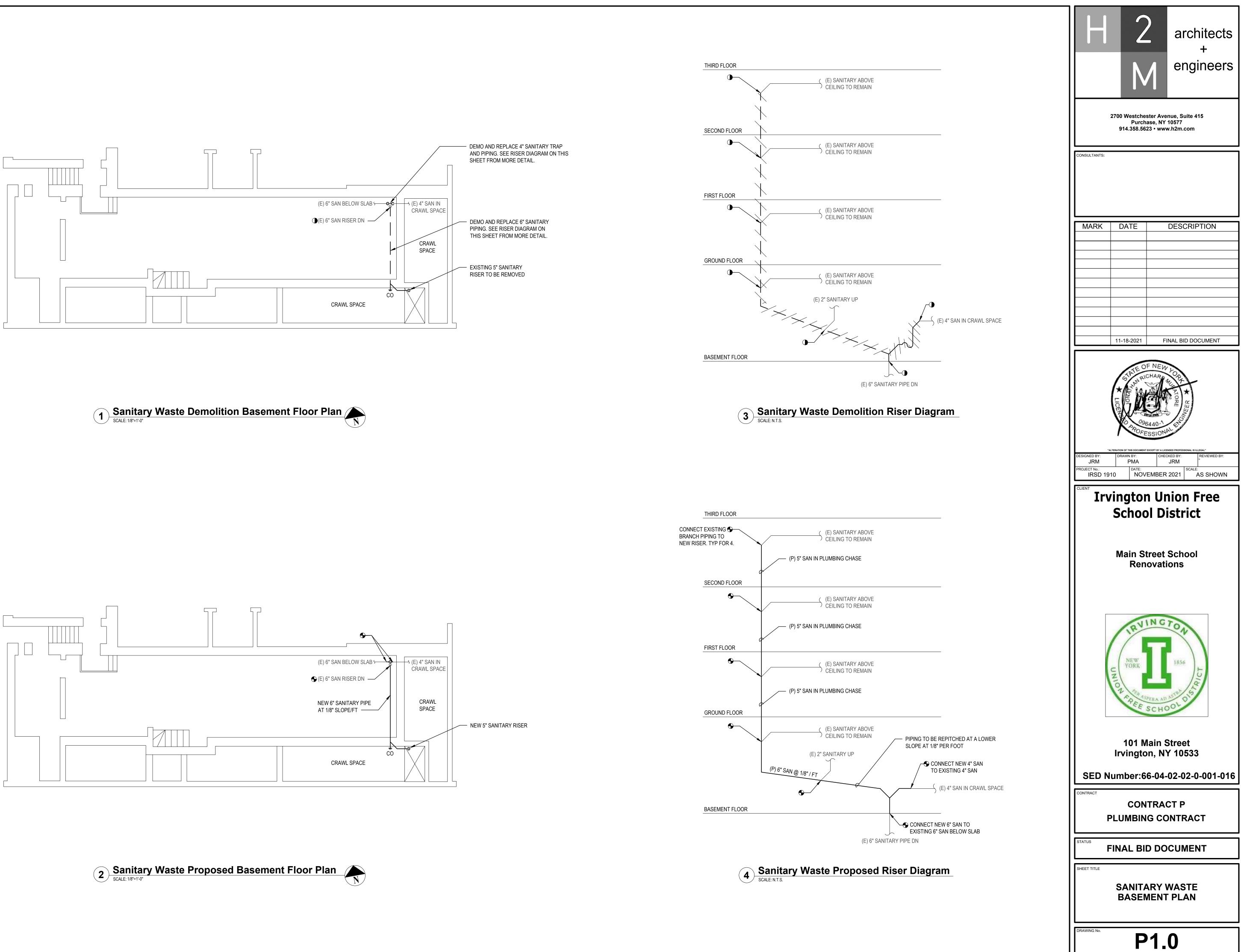


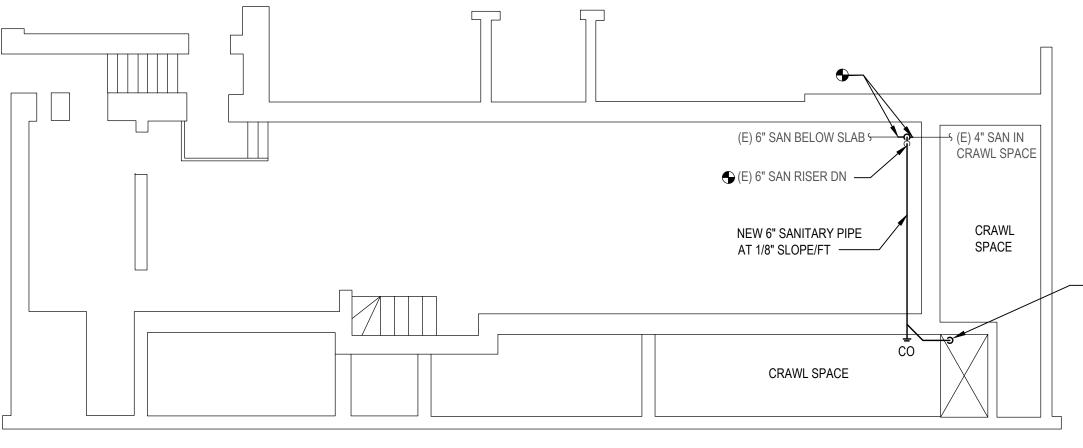
### Pipe Hanger Detail SCALE: NTS



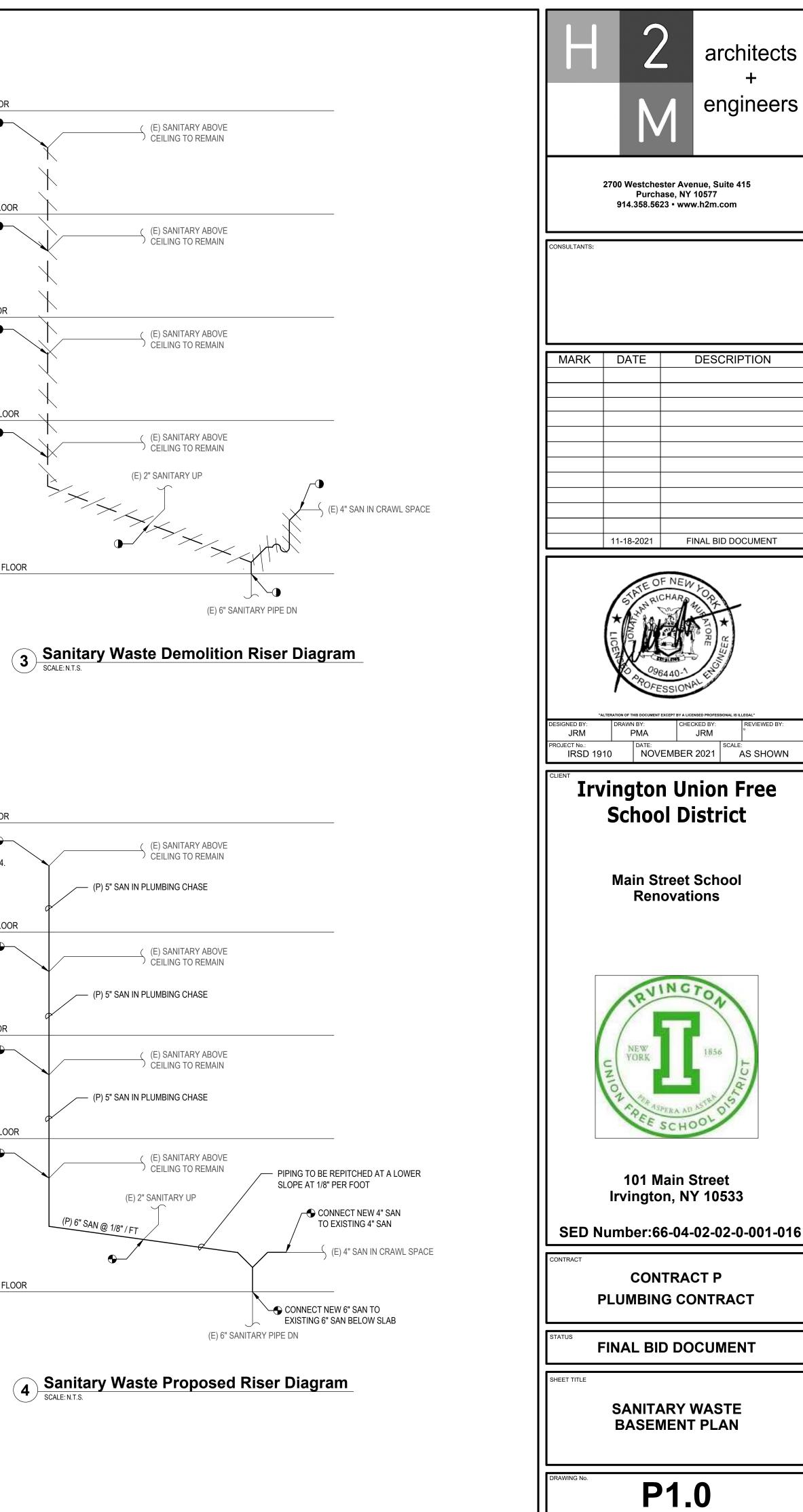
**Pipe Penetation Through Floors Detail** 

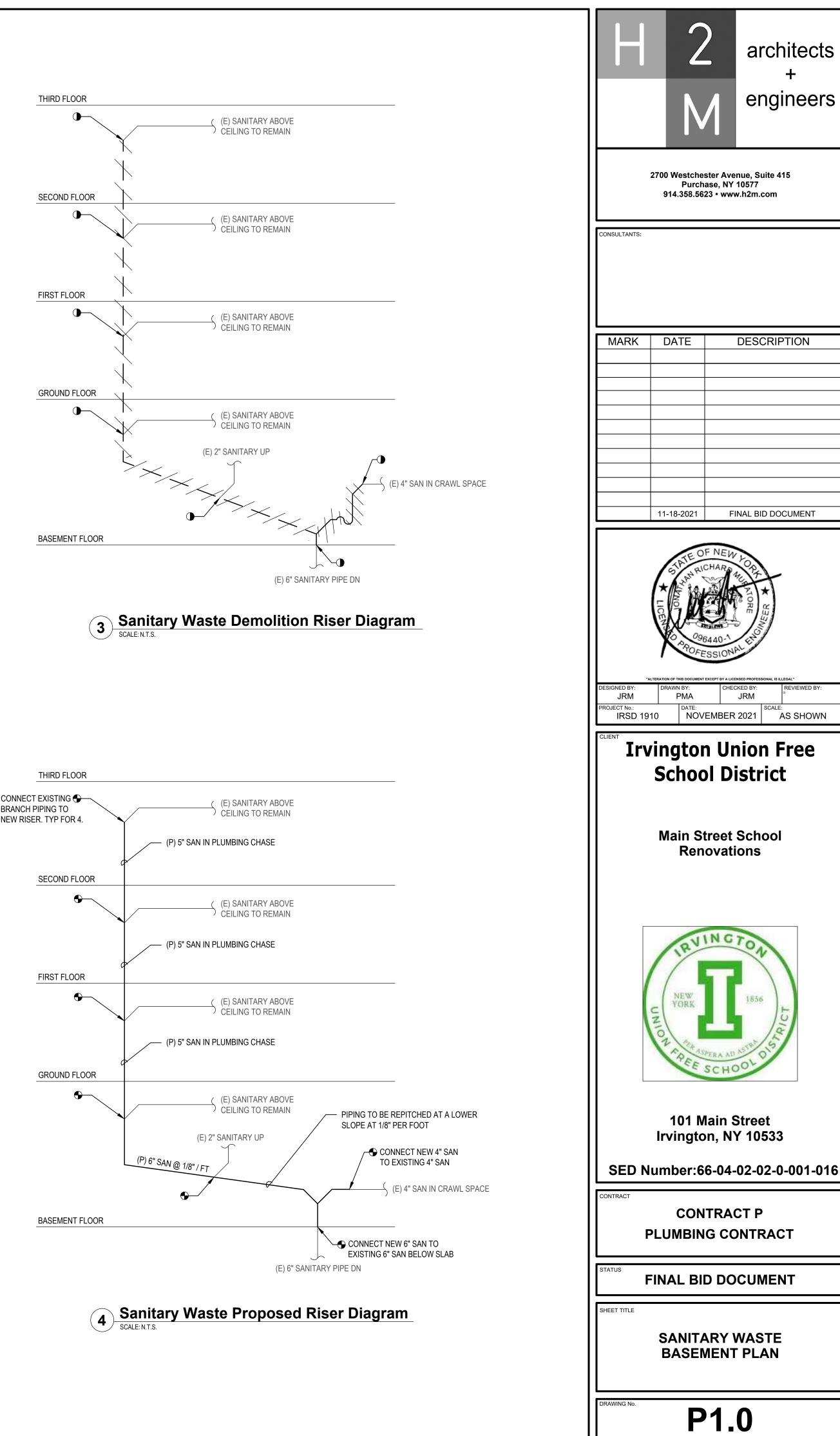
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								PROJECT	<sup>No.:</sup> SD 1910		EMBER	2021 AS	SHOWN
									SD 1910	NOVI		nion Fr	
HANG	ER ROD \$	SCHED	ULE						Irvir	ngtor	ו Un		
PIPE SIZE	ROD	SIZE	PIPE SIZ		ROD SIZE				Irvir	ngtor	ו Un	ion Fr	
PIPE SIZE UP TO 2"	1	SIZE DIA.			ROD SIZE 5/8" DIA.				Irvir S	ngtor Schoo	n Un ol Di	nion Fr strict	
PIPE SIZE UP TO 2"	ROD 3/8" [ 1/2" [ H, LO SI	SIZE DIA.	PIPE SIZ 4" THRU HEAV	5" Y DUTY IS HANGER	5/8" DIA.		<ul> <li>HANGER ROD</li> <li>LOCKING NUT</li> <li>SUPPORT NUT</li> </ul>		Irvir S	Aain St Ren	n Un ol Di	School	
PIPE SIZE UP TO 2" 2 1/2" THRU 3"	ROD 3/8" [ 1/2" [ H/ LC SI	SIZE DIA. DIA ANGER ROD OCKING NUT UPPORT NUT	PIPE SIZ 4" THRU HEAV	5" Y DUTY IS HANGER	5/8" DIA.		<ul> <li>LOCKING NUT</li> <li>SUPPORT NUT</li> <li>VAPOR BARRIEF INSULATION</li> </ul>	PROJECT	Irvir S	Aain St Reno	n Un ol Di treet sovation	School ons	
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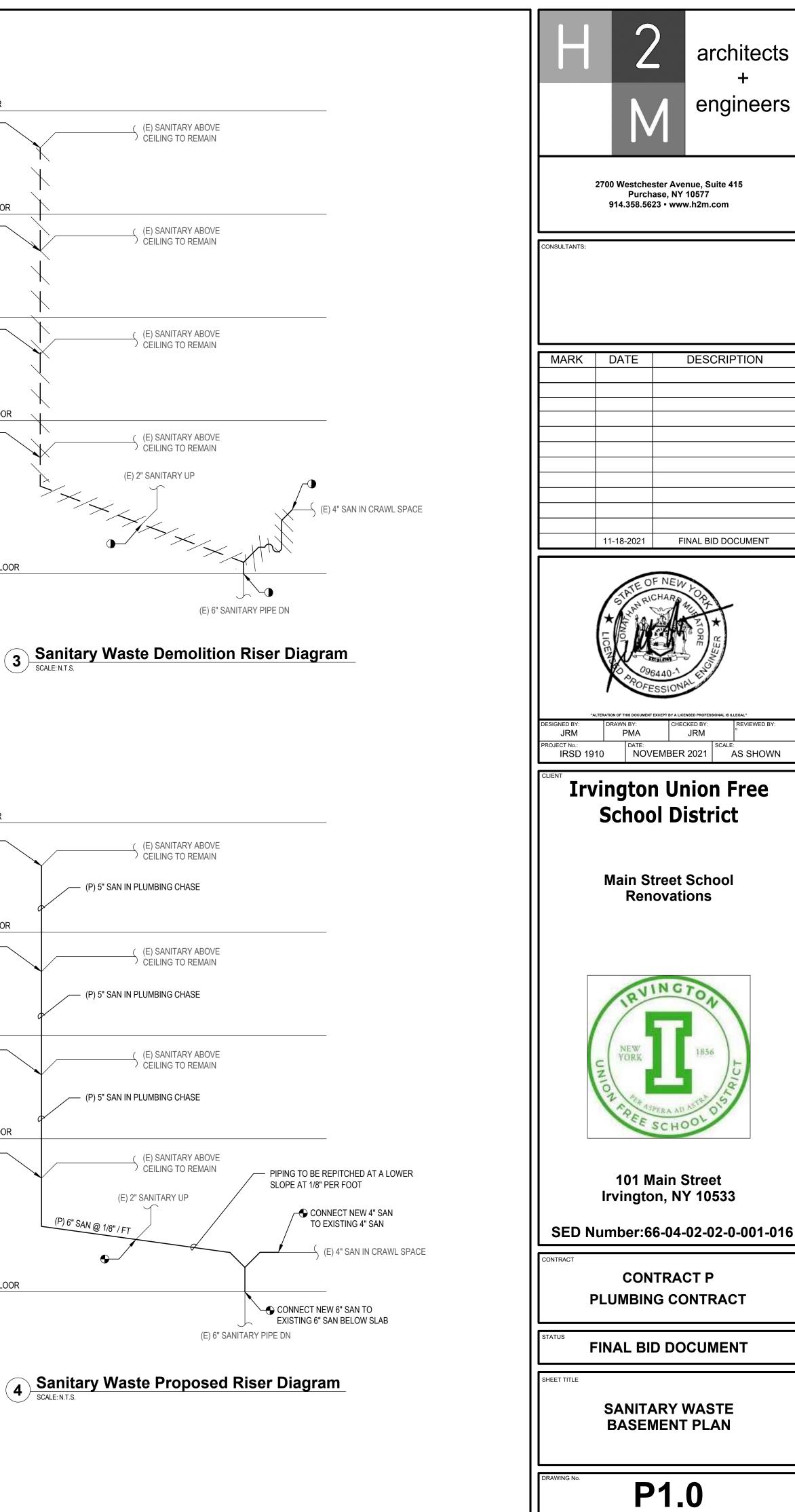


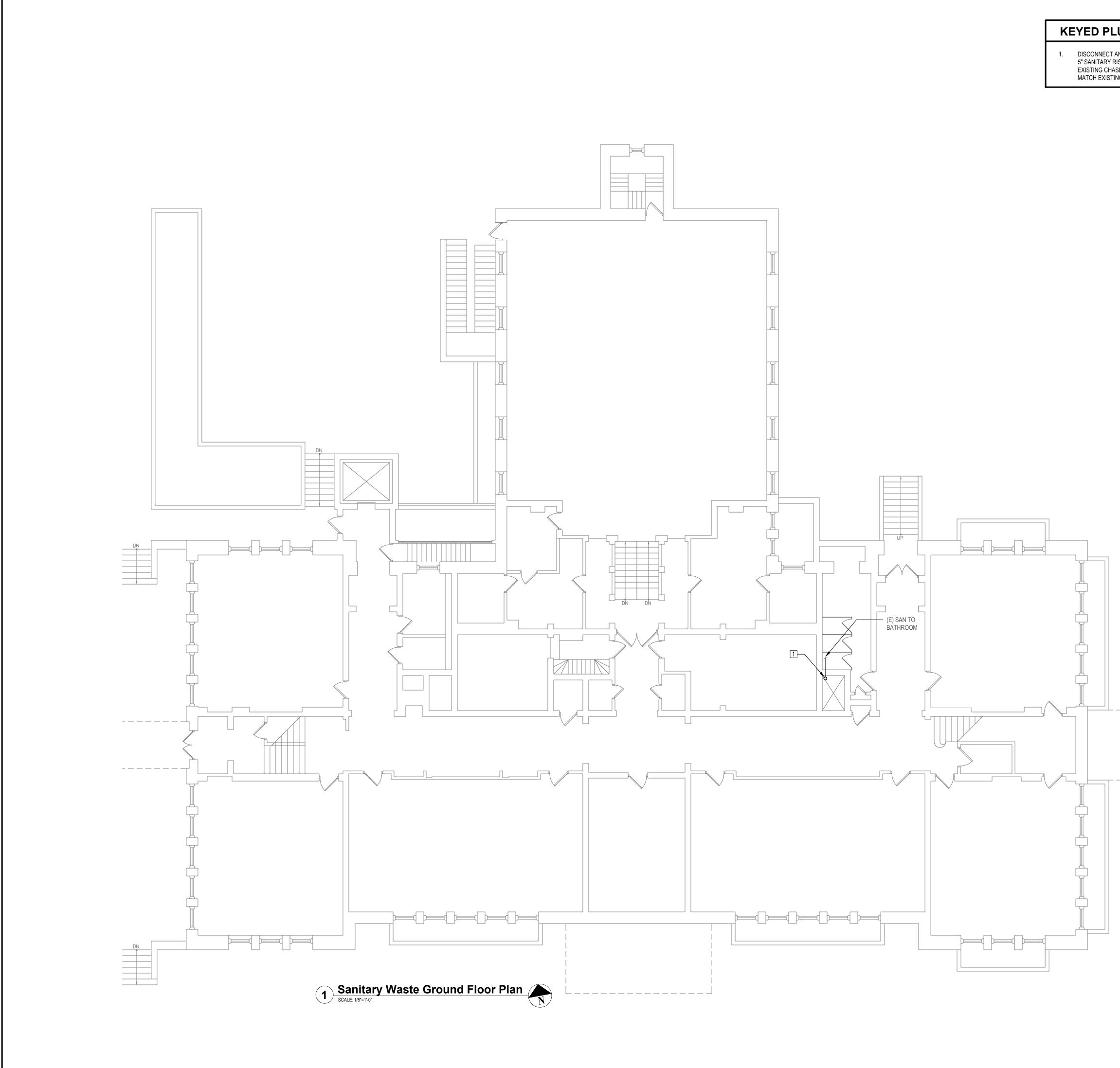










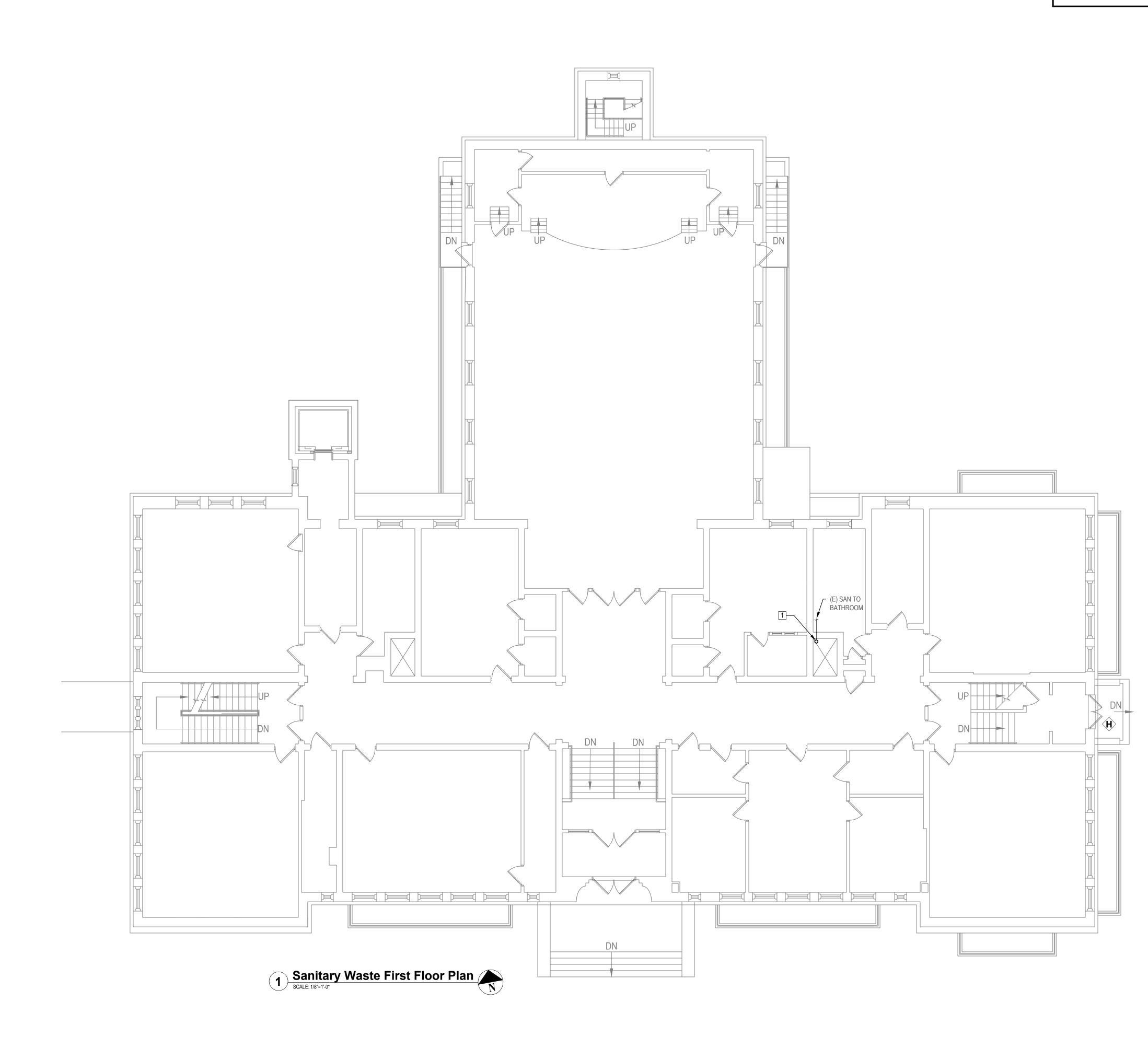




## **KEYED PLUMBING DEMOLITION NOTES**

DISCONNECT AND REMOVE 5" SANITARY RISER IN CHASE WALL. RECONNECT NEW 5" SANITARY RISER TO EXISTING BRANCH PIPING. CONTRACTORS SHALL OPEN UP EXISTING CHASE WALL TO ACCESS RISER PIPING AND TO PATCH AND REPAIR TO MATCH EXISTING FINISHES.

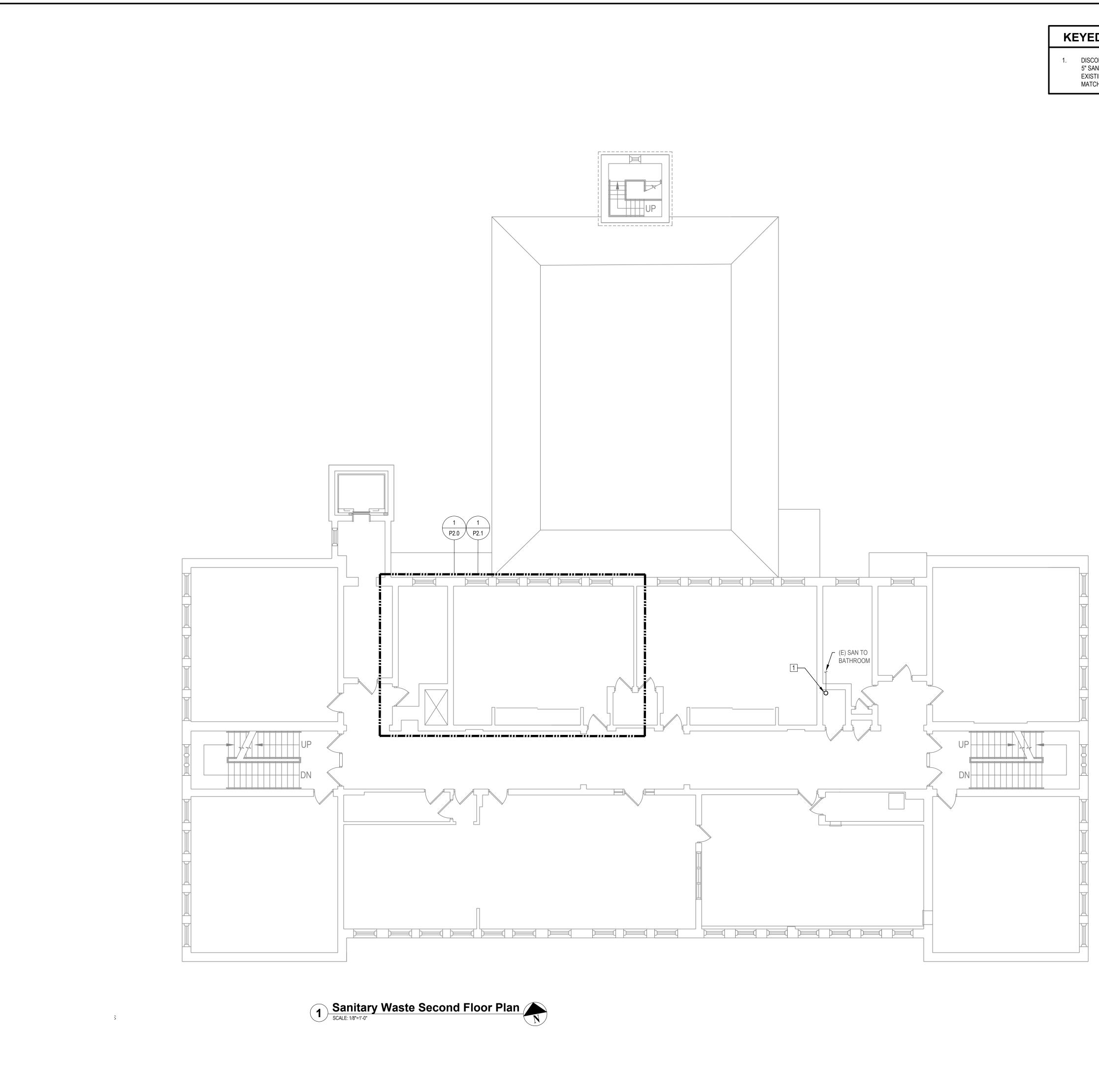
Η	2		architects		
	N	+ engineers			
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CONSULTANTS:					
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## **KEYED PLUMBING DEMOLITION NOTES**

1. DISCONNECT AND REMOVE 5" SANITARY RISER IN CHASE WALL. RECONNECT NEW 5" SANITARY RISER TO EXISTING BRANCH PIPING. CONTRACTORS SHALL OPEN UP EXISTING CHASE WALL TO ACCESS RISER PIPING AND TO PATCH AND REPAIR TO MATCH EXISTING FINISHES.

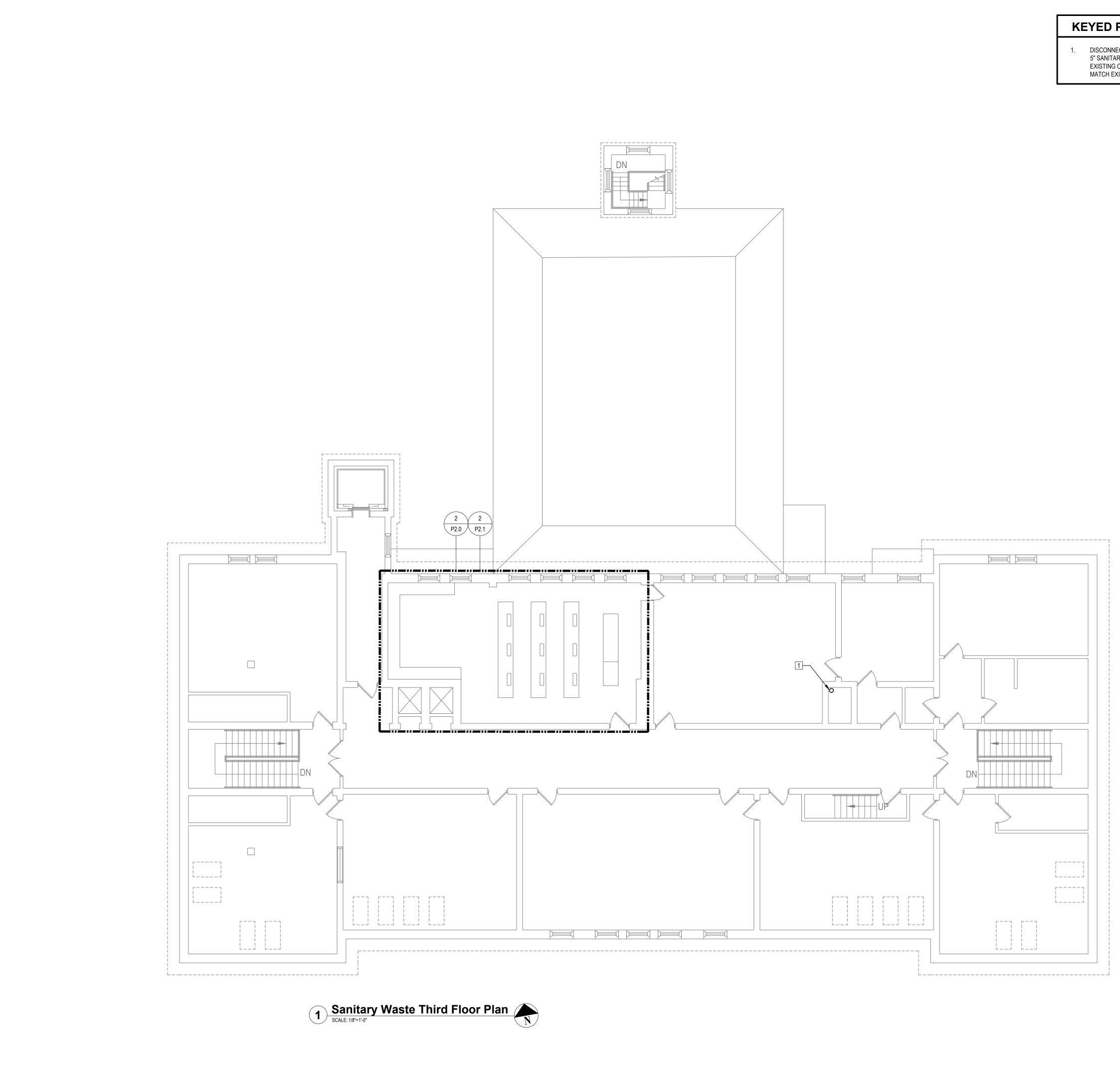
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## **KEYED PLUMBING DEMOLITION NOTES**

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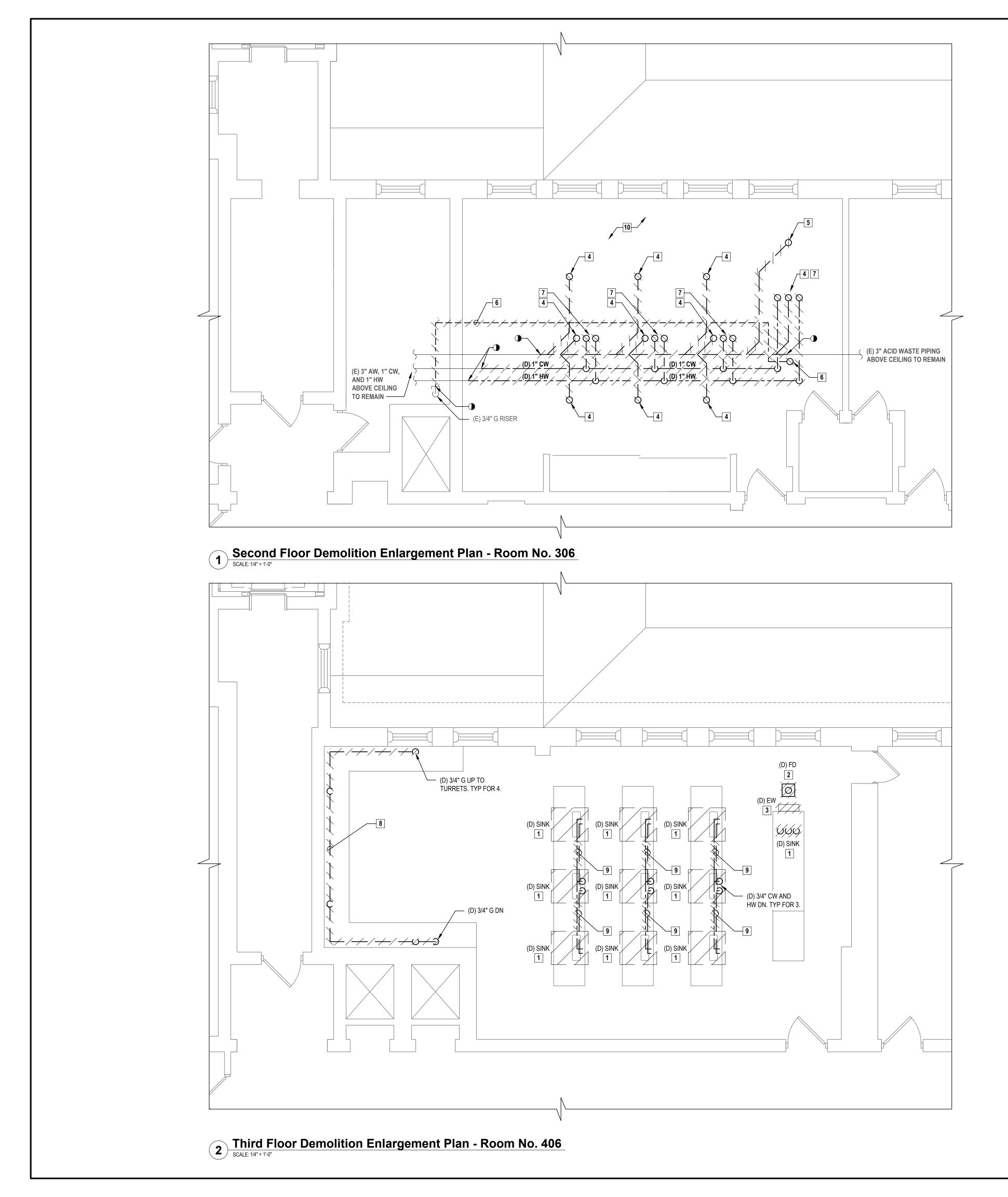


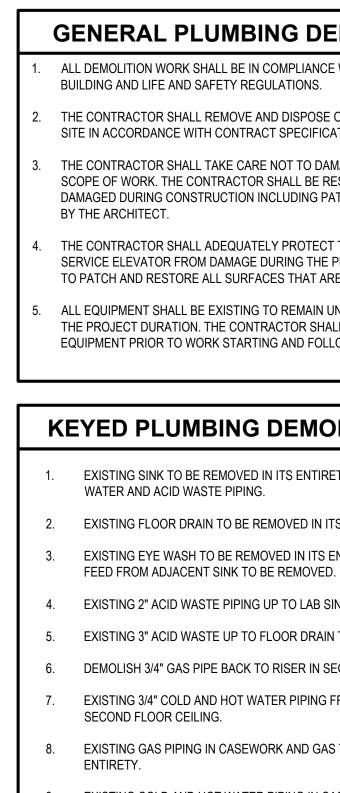
MATCH EXISTING FINISHES.

## **KEYED PLUMBING DEMOLITION NOTES**

1. DISCONNECT AND REMOVE 5" SANITARY RISER IN CHASE WALL. RECONNECT NEW 5" SANITARY RISER TO EXISTING BRANCH PIPING. CONTRACTORS SHALL OPEN UP EXISTING CHASE WALL TO ACCESS RISER PIPING AND TO PATCH AND REPAIR TO

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## **GENERAL PLUMBING DEMOLITION NOTES:**

ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNWANTED MATERIAL OFF SITE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.

THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE TO EXISTING CONDITIONS SURFACE DAMAGED DURING CONSTRUCTION INCLUDING PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY

THE CONTRACTOR SHALL ADEQUATELY PROTECT THE WALLS, FLOOR, AND FINISHES WITHIN STAIRWELLS AND SERVICE ELEVATOR FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND RESTORE ALL SURFACES THAT ARE DAMAGED TO THE SATISFACTION OF THE ARCHITECT.

ALL EQUIPMENT SHALL BE EXISTING TO REMAIN UNLESS OTHER WISE NOTED AND THUS BE PROTECTED THROUGH THE PROJECT DURATION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DEFECTIVE OR NON-WORKING EQUIPMENT PRIOR TO WORK STARTING AND FOLLOWING INSTALLATION OF NEW FINISHES.

## **KEYED PLUMBING DEMOLITION NOTES**

EXISTING SINK TO BE REMOVED IN ITS ENTIRETY. REMOVE ALL COLD WATER, HOT

2. EXISTING FLOOR DRAIN TO BE REMOVED IN ITS ENTIRETY.

3. EXISTING EYE WASH TO BE REMOVED IN ITS ENTIRETY. EXISTING COLD WATER

4. EXISTING 2" ACID WASTE PIPING UP TO LAB SINK TO BE REMOVED.

5. EXISTING 3" ACID WASTE UP TO FLOOR DRAIN TO BE REMOVED.

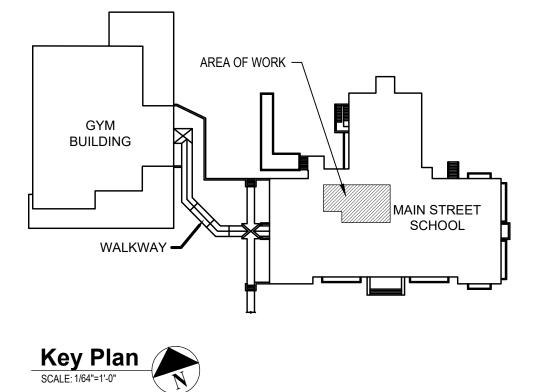
6. DEMOLISH 3/4" GAS PIPE BACK TO RISER IN SECOND FLOOR CEILING AND CAP.

7. EXISTING 3/4" COLD AND HOT WATER PIPING FROM LAB SINKS TO BE REMOVED IN

8. EXISTING GAS PIPING IN CASEWORK AND GAS TURRET TO BE REMOVED IN ITS

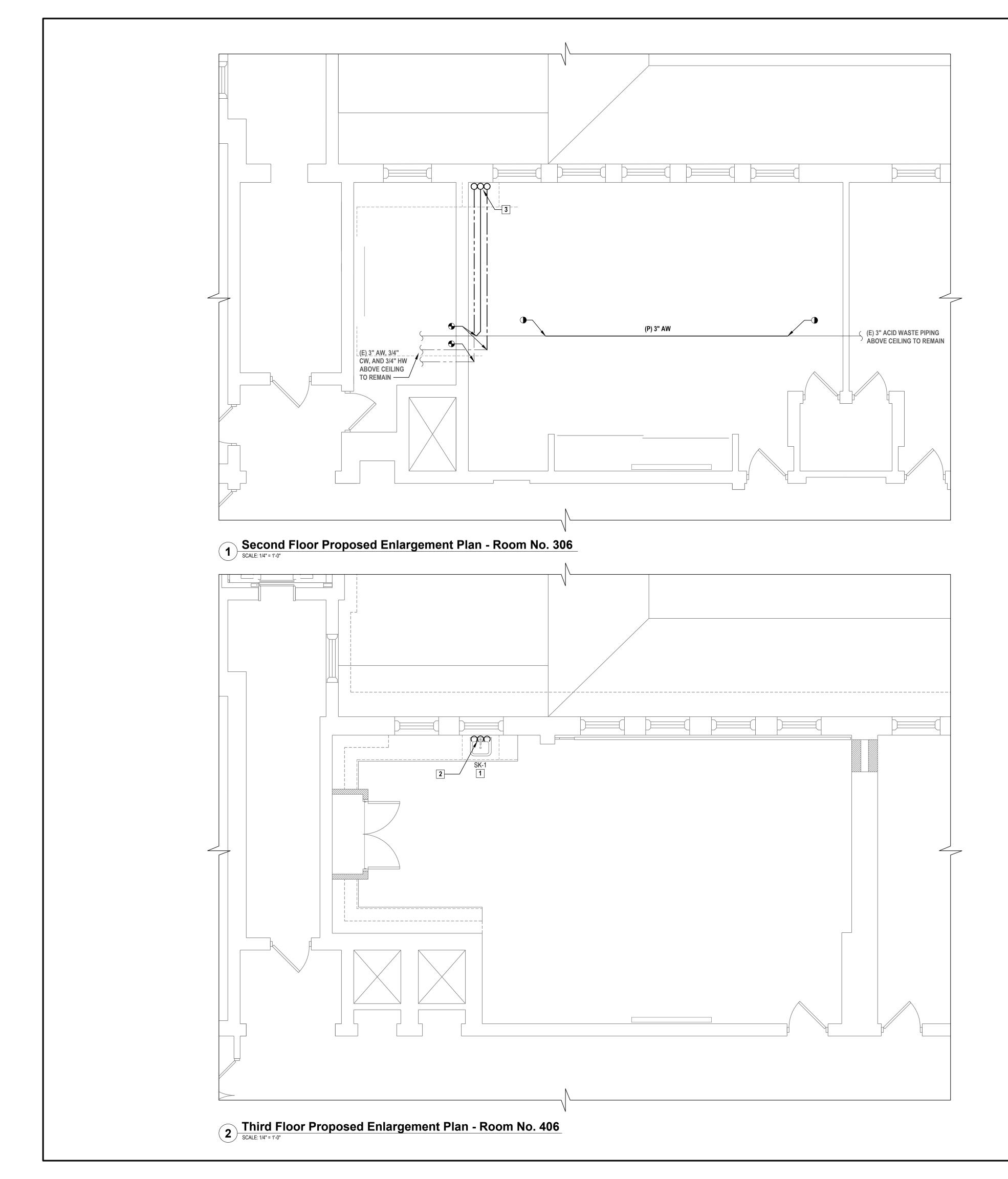
9. EXISTING COLD AND HOT WATER PIPING IN CASEWORK TO LAB SINKS TO BE

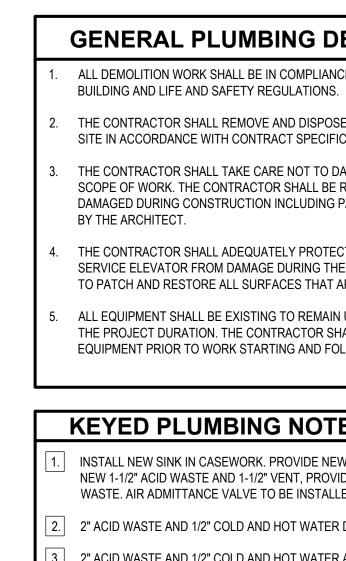
10. EXISTING LAY IN CEILING TO BE TEMPORARILY REMOVED AND REINSTALLED. CONTRACTOR SHALL PROTECT EXISTING TILES AND REPLACE ANY DAMAGED TILES CAUSED BY REMOVAL OR DURING CONSTRUCTION.



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## **GENERAL PLUMBING DEMOLITION NOTES:**

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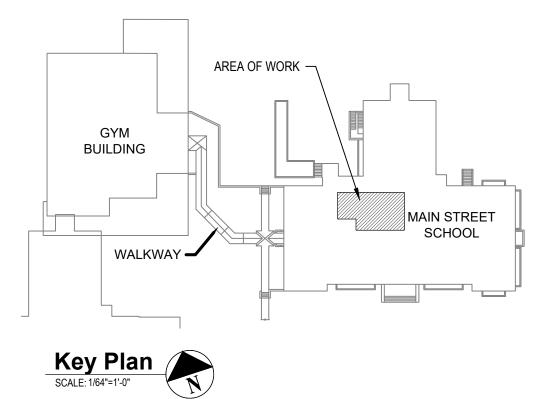
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## **KEYED PLUMBING NOTES**

INSTALL NEW SINK IN CASEWORK. PROVIDE NEW 1/2" COLD AND HOT WATER UP TO NEW STOP VALVES. PROVIDE NEW 1-1/2" ACID WASTE AND 1-1/2" VENT, PROVIDE NEW 1-1/2" AIR ADMITTANCE VALVE SUITABLE FOR ACID WASTE. AIR ADMITTANCE VALVE TO BE INSTALLED IN CASEWORK.

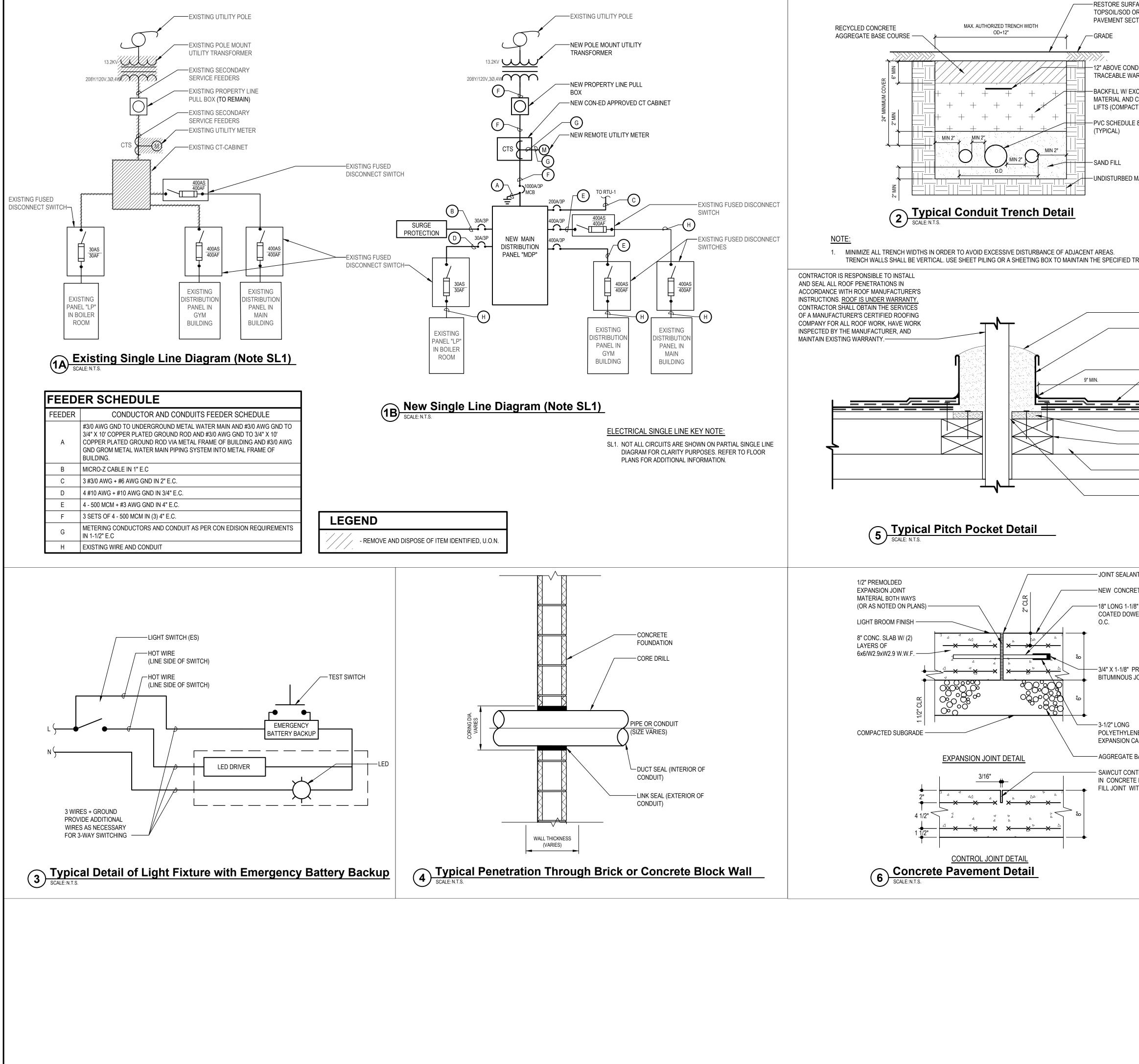
2. 2" ACID WASTE AND 1/2" COLD AND HOT WATER DOWN TO SECOND FLOOR CEILING FROM NEW SINK.

3. 2" ACID WASTE AND 1/2" COLD AND HOT WATER ABOVE CEILING UP TO NEW SINK ON THIRD FLOOR



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	ELECTRICAL LE	GENDS				SINGLE LINE DIAGRAM LEGEND		LIST OF DRAWINGS	
SYMBOL	DESCRIPTION		ABBREVIATION	DESCRIPTION COMMENTS	SYMBOL	DESCRIPTION COMMENTS	E0.0 EI	LIGT OT DIVIVIINGO	architects
S <sub>3</sub> THREE - WAY SW	' SWITCH	46" AFF TO CL UON	AFF	ABOVE FINISHED FLOOR	T	LINE VOLTAGE THERMOSTAT, 120V, 10A.		ECTRICAL SINGLE LINE DIAGRAMS AND DETAILS	+
$ \begin{array}{c c} S_4 & FOUR - WAY SWI \\ \hline S_4 & ILLUMINATED SW \end{array} $		46" AFF TO CL UON 46" AFF TO CL UON	AFC	ABOVE FINISHED CEILING ARC FAULT CIRCUIT INTERRUPTER				ECTRICAL SCHEDULES ECTRICAL SITE PLANS	<b>N</b> engineers
7		46" AFF TO CL UON	AFG	ABOVE FINISHED GRADE		CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.		ECTRICAL PARTIAL LOWER LEVEL, UPPER LEVEL AND ROOF PLANS	
SINGLE POLE DIN		46" AFF TO CL UON	AHJ AMP, A	AUTHORITY HAVING JURISDICTION	$\frac{1}{1}$			ECTRICAL PARTIAL BASEMENT, THIRD AND FOURTH FLOOR DEMOLITION PLANS	
S <sub>3D</sub> THREE - WAY DIN S <sub>K</sub> SINGLE POLE KE		46" AFF TO CL UON 46" AFF TO CL UON	AMP, A	AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH		TRANSFER SWITCH 'TS1'; SEE TRANSFER SWITCH SCHEDULE.		ECTRICAL PARTIAL BASEMENT, THIRD AND FOURTH FLOOR POWER AND HVAC PLANS	2700 Westchester Avenue, Suite 415
S <sub>K3</sub> KEYED THREE - V		46" AFF TO CL UON	ANG	SCHEDULE AMERICAN WIRE GAUGE	A M.C.B	IS1		LECTRICAL WALKWAY LIGHTING AND FIRE ALARM PLANS	Purchase, NY 10577 914.358.5623 • www.h2m.com
$S_{K4}$ KEYED FOUR - W $S_P$ SWITCH AND PIL		46" AFF TO CL UON	BFC	BELOW FINISHED CEILING	PANEL	DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.	FA0.0 FI	RE ALARM LEGENDS, NOTES, AND RISER DIAGRAM	
SWITCH WITH TH	THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH		CL	CENTERLINE	"P1"			SITE PLAN LEGEND	CONSULTANTS:
	/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT		EC	COUNTER TOP ELECTRICAL CONDUIT	100AS	UNFUSED DISCONNECT SWITCH DS1, 100 AMP; SEE DISCONNECT SWITCH SCHEDULE.			
			GFCI	GROUND FAULT CIRCUIT INTERRUPTER	•/			CURB	
	SHUT OFF SWITCH; 'E' INDICATES ELECTRICAL; 'G' INDICATES GAS		GFI GND	GROUND FAULT INDICATOR GROUND	DS1 100AS	FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE.		UTILITY POWER/TELEPHONE POLE	
2 #12 AWG + #12	#12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		CON-ED	CONSOLIDATED EDISON INC.				G G EXISTING NATURAL GAS SERVICE	
	#12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB		MCB	MAIN CIRCUIT BREAKER	G	GENERATOR SET 'G'		EXISTING SEWER SERVICE	MARK DATE DESCRIPTION
LP1-35 DEDICATED HOM WALL OR CEILING	HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN LING	-	MLO	MAIN LUGS ONLY	M	ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS.		EXISTING WATER SERVICE     EXISTING TELEPHONE SERVICE	
O-SIMPLEX RECEPTBASEBOARDS.	CEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR S.	FLUSH	NTS	NOT TO SCALE	(5HP)	MOTOR, NUMBER INDICATES HORSEPOWER.		T	
DUPLEX RECEPT BASEBOARDS.	EPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR	FLUSH	TYP UON	TYPICAL UNLESS OTHERWISE NOTED				EXISTING ELECTRICAL LINES	
	TACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL R TO CLEAR BASEBOARDS.	FLUSH	UC	UNDER COUNTER	Стѕ	CURRENT TRANSFORMERS.		E	
	EPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT.	FLUSH	V			VOLTAGE TRANSFORMERS.		EXISTING PRIMARY ELECTRIC SERVICE	
	EPTACLE: 120V, 20A; FLOOR MOUNTED.	FLUSH	VAC	VOLTS ALTERNATING CURRENT       VOLTS DIRECT CURRENT	UPS	UNINTERRUPTIBLE POWER SUPPLY		NEW PRIMARY ELECTRIC SERVICE	
	PTACLE: 120V, 20A; FLOOR MOUNTED.		X-FMR	TRANSFORMER	120/208V	T2		OH/E EXISTING OVERHEAD ELECTRIC LINES	
DUPLEX RECEPT	EPTACLE AND DATA JACK: 120V, 20A; FLOOR MOUNTED.		WP	WEATHERPROOF	277/480	TRANSFORMER 'T2' WITH SIZE, PRIMARY AND SECONDARY VOLTAGES AS NOTED.	x-	— x — x — EXISTING FENCE	
DATA JACK; FLOO				GENERAL NOTES:				ELECTRIC PULL BOX	11-18-2021 FINAL BID DOCUMENT
ISOLATED GROU BASEBOARDS.	ROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR	FLUSH	BID. NO ADE	ACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THIS PROJECT IN BASE DITIONAL MONIES WILL BE PROVIDED FOR OVERTIME TIME REQUIRED TO				HH HANDHOLE	
	EPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL R TO CLEAR BASEBOARDS.	FLUSH		THIS WORK NOR FOR MULTIPLE WORK SHIFTS PER DAY.	$\left(\begin{array}{c} 0\\ 0\end{array}\right) \frac{100 \text{AF}}{100 \text{AT}}$	RACK OUT CIRCUIT BREAKER		T TRANSFORMER	NILLE OF NEW KOULD
	EPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER	AS PER ENGINEER	G2. VERIFY PHA PROPER RO	SE ROTATION OF ALL EXISTING, TEMPORARY, AND NEW EQUIPMENT TO ENSURE TATION	I ¥			SYMBOLS LEGEND	WOON ON THE
	EPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEER		SHALL BE COORDINATED WITH CON EDISON PRIOR TO INSTALLATION OF NEW	RVRM	REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.		100 ROOM DESIGNATION	
DUPLEX RECEPT	EPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF.	AS PER ENGINEER	ELECTRICAL		RVSS	REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.		5 A2.2 BUILDING SECTION CUT	
	EPTACLE: 120V, 20A; SUBSCRIPT "USB" INDICATES INTEGRAL USB.	FLUSH	WORK TO DE	OR SHALL PROVIDE A DETAILED SCHEDULE TWO WEEKS PRIOR TO BEGINNING ESCRIBE HOW POWER SWITCHOVERS WILL BE ACCOMPLISHED. SCHEDULE SHALL	150 VFD			WALL SECTION CUT	PROFESSIONAL IN
₩ <sup>40</sup> 240 SPECIAL PURPOS	POSE OUTLET: 240V, 40A. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEER	INCLUDE DE	TAIL USAGE OF TEMPORARY GENERATORS TO MINIMIZE POWER OUTAGE.	25	VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.		DETAIL KEY	
TWISTED LOCK F	CK RECEPTACLE: 125V, 20A, 3 WIRE; UNLESS OTHERWISE NOTED.	AS PER ENGINEER	SUCH THAT	ACTOR SHALL COORDINATE WITH THE OWNER AND ENGINEER TO PHASE WORK OUTAGES TO VARIOUS AREAS OF THE BUILDING ARE ACCEPTABLE TO MAINTAIN		FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6			"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"       DESIGNED BY:     DRAWN BY:       LK/GT     CHECKED BY:
	CEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION, SS OTHERWISE NOTED.			ERATION OF THE SCHOOL. WORK SHALL BE DONE ON PREMIUM TIME AS REQUIRED. NAL MONIES WILL BE PROVIDED FOR PREMIUM TIME REQUIRED TO FINISH THIS		FVR FULL VOLTAGE REVERSING STARTER. NEMA SIZE 5		5 A2.2 ELEVATION KEY	PROJECT No.: IRSD 1910 DATE: SCALE: AS SHOWN
	TARTER "S1"; SEE STARTER SCHEDULE		WORK NOR	FOR MULTIPLE WORK SHIFTS PER DAY.			-	(H) COLUMN GRID	
551	ION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.			NTROLS WHICH BECOME DISCONNECTED AS A RESULT OF DEMOLITION, EXTEND DNDUIT AS REQUIRED TO MATCH EXISTING, UON.		FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.		ELEVATION LINE	Irvington Union Free
JUNCTION BOX.Image: Statistic st	DX. INLESS STEEL JUNCTION BOX WITH GASKET COVER.		G7. PROVIDE TE	MPORARY LIGHTING AS REQUIRED TO FACILITATE THE WORK OF THIS CONTRACT.		MULTIPLE BRANCH CIRCUITS AS REQUIRED.		Title DRAWING TITLE	School District
	DX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING.		G8. THE CONTR/	ACTOR SHALL MAINTAIN POWER TO THE ENTIRE BUILDING DURING THE HOURS 7:00		– CONTROL CIRCUIT; MIN 2 #12 AWG IN ⅔ " E.C.		CALE:	
D FOR MONITOR, J	FF, UNLESS OTHERWISE NOTED. R, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE			PM. ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 AM AND L ELECTRICAL SHUTDOWNS MUST OCCUR BETWEEN 5:00 PM AND 11:00 PM AND				3 5 A2 2 1 INTERIOR ELEVATION REFERENCE	
FINISHED CEILIN	ILING. RYER, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE			T SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY SHUTDOWNS. CONTRACTOR SHALL INERATOR AND TEMPORARY PANELS AS REQUIRED TO PROVIDE TEMPORARY					Main Street School
FINISHED CEILIN	LING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. ER "T1": SEE TRANSFORMER SCHEDULE.		POWER					# SEE NOTE # ON DWG #	Renovations
	PANEL "P1", RECESSED; SEE PANEL SCHEDULE.			ACTOR SHALL PROVIDE AND TEMPORARILY INSTALL A PORTABLE 100kW 208V, SEL GENERATOR DURING ALL ELECTRICAL UTILITY SHUTDOWNS. CONTRACTOR				#	
	PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.			/IDE ALL FUEL TO MAINTAIN GENERATOR OPERATION AND SHALL ARRANGE FOR S FUEL DELIVERIES AS REQUIRED FOR THE FULL DURATION OF THE GENERATOR					
C CONDUIT GOING	ING UP.		OPERATION.						
CONDUIT GOING	ING DOWN.		PANELBOAR	ACTOR SHALL MEASURE (AMPROBE) THE CURRENT DRAW ON ALL FEEDERS TO DS THAT ARE TO BE TEMPORARILY FED. PROVIDE CURRENT DATA TO ENGINEER					NINGTON
	PROVIDE CAT 6 CABLE IN 3/4" E.C. TO EXISTING SERVER RACK "IDF". PROVIDE AND INSTALL A RJ45 JACK AND CONTRACTOR SHALL MAKE ALL FINAL TERMINATION. REFER TO DRAWING MB-E1.0 FOR APPROXIMATE			RDERING THE TEMPORARY GENERATOR.					1 m
LOCATION OF SE	F SERVER RACK "IDF".		CONSTRUCT	, THE CONTRACTOR SHALL PROVIDE ADDITIONAL GENERATORS AS REQUIRED FOR TON POWER TO ACCOMPLISH THE WORK OF THIS CONTRACT AT NO ADDITIONAL					
COVER.	/ISION. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK		COST TO TH	E OWNER. THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM MAY BE USED BY CONTRACTOR FOR CONSTRUCTION POWER WHEN AVAILABLE.					VORK 1856
FACEPLATE. CON	DE CAT 6 CABLE IN 3/4" E.C. TO EXISTING SERVER RACK "IDF". PROVIDE AND INSTALL A RJ45 JACK AND CONTRACTOR SHALL MAKE ALL FINAL TERMINATION. REFER TO DRAWING MB-E1.0 FOR APPROXIMATE			IG AND NEW SINGLE LINE DIAGRAM HAS BEEN CREATED USING EXISTING					E E
	F SERVER RACK "IDF". ATA AND TV. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK		CONTRACTO	AND/OR BY COMPLETING FIELD SURVEYS. PRIOR TO BEGINNING WORK, THE OR SHALL TONE OUT AND VERIFY THE EXISTING SINGLE LINE DIAGRAM. THE					12 May 55 5
DT COVER.	MERA. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK			OR SHALL PROVIDE THE OWNER/ENGINEER WITH AN UPDATED SINGLE LINE PRIOR NG ANY DEMOLITION WORK.					PEE SCHOOL
s COVER.									
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MATERIAL		CONSULTANTS:		
RENCH.		MARK	DATE	DESCRIPTION
	<ul> <li>FILL TO TOP WITH PITCH POCKET SEALER</li> <li>16 OZ. COPPER PITCH PAN MINIMUM 4" HEIGHT WITH 4" HORIZONTAL FLANGES. PRIMED FLANGE SET IN BED OF MASTIC OVER ROOFING MEMBRANE &amp; FASTENED 3" O.C.</li> <li>SEALANT</li> <li>NEW TPA FLASHING MEMBRANE FULLY ADHERED TO SUBSTRATE</li> </ul>		11-18-2021	FINAL BID DOCUMENT
EXISTING ROOF ASSEMBLY	<ul> <li>TPA BONDING ADHESIVE</li> <li>NEW COVER BOARD BLOCKING</li> <li>NEW P.T. 2x BLOCKING, HEIGHT TO MATCH EXISTING INSULATION THICKNESS, ANCHORED TO DECKING</li> <li>REMOVE EXISTING ROOFING AS REQUIRED FOR NEW WORK</li> <li>SEAL AROUND PIPE PENETRATION TO PREVENT MASTIC LEAKAGE INTO BUIDLING</li> </ul>	DESIGNED BY: LK PROJECT No.:	DRAWN BY: LK/GT DATE:	PT BY A LICENSED PROFESSIONAL IS ILLEGAL* CHECKED BY:
IT (TYPICAL) ETE SLAB I" EPOXY ELS AT 12"			vington School Main Stre	Union Free District
REFORMED JOINT FILLER NE AP BASE TROL JOINT E PAVEMENT. TH SEALANT.				IBS6 LUCA
		SED N	Irvington	in Street , NY 10533 04-02-02-0-001-016
		CONTRACT		RACT G DNSTRUCTION
		STATUS		DOCUMENT
				SINGLE LINE AND DETAILS
		DRAWING No.	E	1.0

Mains         LOUGA MCB         Mains         LOUGA MCB         Mains         LOUGA           Peel Type         PS         Mounding         SURFACE         Options         Note         SERVICE ENTRANCE RATED           NEMA Type Enclosure
NEMA Type Endoure         1           JDESCRIPTION         BREAKER OPTION         TIP AMPS BOLES         CONNECTED LOAD VOLT AMPERES POLES         Image: Connected Load OA         TIP OBSCRIPTION         REAKER OPTION         Image: Connected Load OA         TIP OBSCRIPTION         REAKER BOLES         Image: Connected Load OA         TIP OBSCRIPTION         REAKER OPTION         Image: Connected Load OA         TIP OBSCRIPTION         REAKER OPTION         Image: Connected Load OPTION         SURGE PROTECTION         Image: Connected Load OPTION         SURGE PROTECTION         Image: Connected Load OPTION         SURGE PROTECTION         SURGE PROTECTION         Existing Main BulLDing OPTION         Existing Main OPTION         Existing Main BulLDing OPTION         Existing Main BulLDing OPTION
DESCRIPTION         BEEAKER POLES         VOLT AMPERES POLES         Z OR         VOLT AMPERES OR         Z OR         VOLT AMPERES OR         Z OR         VOLT AMPERES OR         AMPS POLES         BEEAKER POLES         LOAD DESCRIPTION           ING PANEL "LP"         30A3P
DESCRIPTION         BEEAKER POLES         VOLT AMPERES POLES         Z OR         VOLT AMPERES OR         Z OR         VOLT AMPERES OR         Z OR         VOLT AMPERES OR         AMPS POLES         BEEAKER POLES         LOAD DESCRIPTION           ING PANEL "LP"         30A3P
JUESCRPTION         OPTION         &         VOLT AMPERES         G<
ING PANEL "LP"         30A/3P         SURGE PROTECTION           ING PANEL "LP"         30A/3P         -         4         -         -         30A/3P         SURGE PROTECTION           GYM DISTRIBUTION A 600A DISCONNECT         400A/3P         -         -         -         -         -         400A/3P         EXISTING MAIN BUILDING DISTRIBUTION PANEL (MA DISCONNECT           SWITCH)         400A/3P         -         -         11         -         -         -         400A/3P         EXISTING MAIN BUILDING DISTRIBUTION PANEL (MA DISCONNECT SWITCH)           RTU-1         HACR         200A/3P         18912         -         11         -         20A/1P         RTU-1 DUCTISMOKE HATER           SWITCH)         18912         18912         11         -         12         -         20A/1P         SPARE           SPARE         20A/1P         -         20A/1P         SPARE         20A/1P         SPARE           SPARE         20A/1P         -         22         -         -         20A/1P         SPARE           SPARE         20A/1P         -         23         2         -         -         20A/1P         SPARE           SPARE         20A/1P         -         23         -
ING PANEL "LP"       30A3P       SURGE PROTECTION         GYM DISTRIBUTION A 600A DISCONNECT       400A3P       EXISTING MAIN BUILDING 01STRIBUTION PANEL (MA DISCONNECT       EXISTING MAIN BUILDING 01STRIBUTION PANEL (MA DISCONNECT SWITCH)       10912       11
GYM DISTRIBUTION ROWADISCONNECT         400A3P         EXISTING MAIN BUILDING DISTRIBUTION A00A3P         EXISTING MAIN BUILDING DISTRIBUTION PARE (MA DISCONNECT SWITCH)           SWITCH)         10043P         10043P         10043P         20041P         RTU-1 DUCTSMOKE HEATER DISCONNECT SWITCH)           RTU-1         HACR         20041P         18912         13         14         -         20041P         RTU-1 DUCTSMOKE HEATER DISCONNECT SWITCH)           SPARE         20041P         -         2017P         SPARE         20041P         SPARE           SPARE         20041P         -         2017P         SPARE         20041P         SPARE           SPARE         20041P         -         23         42         -         2041P         SPARE           SPARE         20041P
GTM DI RIJO (10W BOOL DISCONNECT         400A/3P
SWITCH)         DISCONNECT SWITCH)           RTU-1         HACR         200/39         18912         113         14
RTU-1         HACR         200/19         RTU-1 DUCT/SMOKE HEATER           SPARE         200/19         200/19         SPARE           SPARE         200/19         SPARE         200/19         SPARE           SPARE         200/19         SPARE         200/19         SPARE           SPARE         200/19         SPARE         200/19         SPARE           SPARE         200/19         -         21         18         -         200/19         SPARE           SPARE         200/19         -         21         12         22         -         200/19         SPARE           SPARE         200/19         -         23         24         -         200/19         SPARE           SPARE         200/19         -         23         24         -         200/19         SPARE           SPARE         200/19         -         23         24         -         200/19         SPARE           SPARE         200/19         -         20         -         20         -         200/19         SPARE           SPARE         200/19         -         20         -         20         -         20         -         20
SPARE         20A/IP         SPARE           20A/IP         -         20A/IP         SPARE           SPARE         20A/IP         -         20A/IP         SPARE           SPARE         20A/IP         -         20         -         20A/IP         SPARE           SPARE         20A/IP         -         23         24         -         20A/IP         SPARE           SPARE         20A/IP         -         23         24         -         20A/IP         SPARE           SPARE         20A/IP         -         23         24         -         20A/IP         SPARE           SPARE         20A/IP         -         23         30         -         20A/IP         SPARE           SPARE         20A/IP         -         33         -         38         -         20A/IP         SPARE           SPARE         20A/IP
SPARE       20A/1P       SPARE         SPARE       20A/1P       SPARE         20A/1P       SPARE         SPARE       20A/1P       SPARE         20A/1P       SPARE
SPARE       20A/1P       SPARE         SPARE       20A/1P
SPARE       20A/1P       -       23       24       -       20A/1P       SPARE         SPARE       20A/1P       -       27       28       -       20A/1P       SPARE         SPARE       20A/1P       -       27       28       -       20A/1P       SPARE         SPARE       20A/1P       -       20       30       -       20A/1P       SPARE         SPARE       20A/1P       -       20       30       -       20A/1P       SPARE         SPARE       20A/1P       -       20A/1P       SPARE       20A/1P       SPARE       SPARE       20A/1P       SPARE         SPARE       20A/1P       -       33       34       -       20A/1P       SPARE         SPARE       20A/1P       -       33       34       -       20A/1P       SPARE         SPARE       20A/1P       -       33       34       -       20A/1P       SPARE         SPARE       20A/1P       -       34       -       20A/1P       SPARE       SPARE         SPARE       20A/1P       -       38       -       -       20A/1P       SPARE         SPARE       20A/1P
SPARE       20A/1P       SPARE         SPARE       20A/1P       SPARE         20A/1P       20A/1P       SPARE         SPARE       20A/1P       SPARE         20A/1P       -       20         SPARE       20A/1P       -         SPARE       20A/1P       SPARE         Connected Totals:       ØA       EXISTING KVA <t< th=""></t<>
SPARE       20A/1P       ·       27       28       ·       20A/1P       SPARE         SPARE       20A/1P       ·       29       30       ·       20A/1P       SPARE         SPARE       20A/1P       ·       20       30       ·       20A/1P       SPARE         SPARE       20A/1P       ·       20       ·       20A/1P       SPARE         SPARE       20A/1P       ·       33       ·       34       ·       20A/1P       SPARE         SPARE       20A/1P       ·       ·       35       ·       36       ·       20A/1P       SPARE         SPARE       20A/1P       ·       ·       35       ·       36       ·       20A/1P       SPARE         SPARE       20A/1P       ·       ·       37       ·       38       ·       20A/1P       SPARE         SPARE       20A/1P       ·       ·       ·       20A/1P       SPARE       20A/1P       SPARE       SPARE         SPARE       20A/1P       ·       ·       ·       20A/1P       SPARE       SPARE       20A/1P       SPARE         SPARE       20A/1P       ·       ·       <
SPARE       20A/1P
SPARE       20A/1P       -       33       -       20A/1P       SPARE         SPARE       20A/1P       -       35       -       20A/1P       SPARE         SPARE       20A/1P       -       37       -       38       -       20A/1P       SPARE         SPARE       20A/1P       -       37       -       40       -       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       -       20A/1P       SPARE         SPARE       20A/1P       -       -       41       42       -       -       20A/1P       SPARE         SPARE       20A/1P       -       -       41       42       -       -       20A/1P       SPARE         SPARE       20A/1P       -       -       -       10       -<
SPARE       20A/1P       -       35       -       20A/1P       SPARE         SPARE       20A/1P       -       37       -       38       -       20A/1P       SPARE         SPARE       20A/1P       -       39       40       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       20A/1P       SPARE         SPARE       20A/1P       -       -       41       42       -       20A/1P       SPARE         (All Phases to be balanced to within 7% using Actual Load Totals.)       OA       EXISTING KVA       EXISTING KVA       EXISTING KVA       EXISTING AWA       EXISTING AWA       EXISTING
SPARE       20A/1P       37       38       20A/1P       SPARE         SPARE       20A/1P       39       40       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       20A/1P       SPARE         SPARE       20A/1P       -       41       42       -       20A/1P       SPARE         Connected Totals:       ØA       EXISTING       KVA       -       20A/1P       SPARE         (All Phases to be balanced to within 7% using Actual Load Totals.)       ØA       EXISTING       KVA       EXISTING       AVA       AUX - Auxiliary Contacts         PA - Handle Padlock Attachment       GFCI - Ground Fault Circuit Interrupter       HACR - Heating, A/C & Refrigeration       SF - Subfeed
SPARE       20A/1P       .       39       40       .       20A/1P       SPARE         SPARE       20A/1P       .       .       41       42       .       20A/1P       SPARE         SPARE       20A/1P       .       .       41       42       .       .       20A/1P       SPARE         SPARE       20A/1P       .       .       .       .       .       .       20A/1P       SPARE         Connected Totals:       .
SPARE       20A/1P       -       41       42       -       20A/1P       SPARE         Connected Totals:       ØA_EXISTING_KVA       42       -       20A/1P       SPARE         Connected Totals:       ØA_EXISTING_KVA       AS - Powerlink AS Breaker         (All Phases to be balanced to within 7% using Actual Load Totals.)       ØA_EXISTING_KVA       EXISTING_KVA       AUX - Auxiliary Contacts         For example.       For example.       AUX - Auxiliary Contacts       AUX - Auxiliary Contacts         For example.       For example.       For example.       For example.         For example.       For example.       For example.       AUX - Auxiliary Contacts         For example.       For example.       For example.       For example.
Connected Totals:       ØA_EXISTING_KVA       Breaker Options:         ØB_EXISTING_KVA       AS - Powerlink AS Breaker         ØB_EXISTING_KVA       ST - Shunt Trip Type         ØC_EXISTING_KVA       AUX - Auxiliary Contacts         Image: Connected to within 7% using Actual Load Totals.)       Total         EXISTING_KVA       EXISTING_Amperes         PA - Handle Padlock Attachment         GFCI - Ground Fault Circuit Interrupter         HACR - Heating, A/C & Refrigeration         SF - Subfeed
Panel Wiring Schedule (3-Phase)
Panelboard E1 (EXISTING) Voltage 120/208 Phase 3 Wire 4 AIC Rating EXISTING
Manufacturer POW-R-LINE Mains MLO Mains Rating100A
Panel Type PRL1 Mounting RECESSED Options Note Note EXISTING PANEL IN CLASSROOM (105)
NEMA Type Enclosure1
TRIP CONNECTED LOAD O A O CONNECTED LOAD TRIP
D DESCRIPTION     BREAKER OPTION     AMPS & POLES     AMPS & POLES     AMPS & POLES     BREAKER OPTION     AMPS & POLES     BREAKER OPTION     DOBUS     BREAKER OPTION     LOAD DESCRIPTION       KWAY LIGHTS     20A/1P     176     1     2     1440     20A/1P     20A/1P     EXTERIOR RECEPTACLES
Description     BREAKER OPTION     AMPS & POLES     AMPS & POLES     AMPS & POLES     AMPS & POLES     BREAKER OPTION     LOAD DESCRIPTION       KWAY LIGHTS     20A/1P     176     1     2     1440     20A/1P     20A/1P     EXTERIOR RECEPTACLES       SPACE     -     -     3     -     4     -     20A/1P     SPACE
DESCRIPTION     BREAKER OPTION     AMPS & POLES     AMPS & POLES     AMPS & POLES     AMPS & POLES     BREAKER OPTION     DOAD DESCRIPTION       KWAY LIGHTS     20A/1P     176     1     1     20A/1P     20A/1P     EXTERIOR RECEPTACLES       SPACE     -     -     3     -     4     -     20A/1P     EXTERIOR RECEPTACLES       SPACE     -     -     -     5     -     6     -     20A/1P     SPACE
Description     BREAKER OPTION     AMPS & POLES     AMPS & VOLT AMPERES     VOLT AMPERES     Z O O     Z O     Z O     VOLT AMPERES     AMPS & OPTION     BREAKER OPTION     BREAKER OPTION     Description       KWAY LIGHTS     20A/1P     176     1     1     2     1440     20A/1P     20A/1P     EXTERIOR RECEPTACLES       SPACE     -     -     -     3     -     4     -     20A/1P     EXTERIOR RECEPTACLES       SPACE     -     -     -     -     5     -     6     -     20A/1P     SPACE       SPACE     -     -     -     8     -     20A/1P     SPACE
Description     BREAKER OPTION     AMPS & POLES     AMPS & POLES     AMPS & POLES     AMPS & POLES     BREAKER OPTION     Description       KWAY LIGHTS     20A/1P     176     1     1     2     1440     20A/1P     20A/1P     Exterior Receptacles       SPACE     -     -     -     -     3     -     4     -     20A/1P     Exterior Receptacles       SPACE     -     -     -     -     5     6     -     20A/1P     SPACE       SPACE     -     -     -     7     4     -     20A/1P     SPACE       SPACE     -     -     -     7     4     -     20A/1P     SPACE       SPACE     -     -     -     7     4     -     20A/1P     SPACE       SPACE     -     -     -     7     4     -     20A/1P     SPACE       SPACE     -     -     -     10     -     20A/1P     SPACE
DESCRIPTION       BREAKER OPTION       AMPS & POLES       AMPS WOLT AMPERES       BREAKER OPTION       AMPS & POLES       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A/1P       176       1       1       1       2       1440       20A/1P       20A/1P       EXTERIOR RECEPTACLES         SPACE       -       -       -       -       -       -       4       -       20A/1P       EXTERIOR RECEPTACLES         SPACE       -       -       -       -       -       -       4       -       20A/1P       SPACE         SPACE       -       -       -       -       7       -       6       -       20A/1P       SPACE       SPACE       -       20A/1P       SPACE       5       6       -       20A/1P       SPACE       SPACE       -       20A/1P       SPACE       - <td< th=""></td<>
DESCRIPTION       BREAKER OPTION       AMPS & POLES       AMPS & POLES       AMPS & POLES       AMPS & POLES       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A/1P       176       1       1       2       1440       20A/1P       20A/1P       EXTERIOR RECEPTACLES         SPACE       -       -       -       3       -       4       -       20A/1P       EXTERIOR RECEPTACLES         SPACE       -       -       -       -       -       4       -       20A/1P       SPACE         SPACE       -       -       -       -       7       -       8       -       20A/1P       SPACE         SPACE       -       -       -       -       7       -       8       -       20A/1P       SPACE         SPACE       -       -       -       10       -       20A/1P       SPACE       SPACE         SPACE       -       -       11       -       12       -       20A/1P       SPACE       EXISTING         EXISTING       20A/2P       -       -       15       -       16       -       20A/2P       EXISTING
DESCRIPTION       BREAKER OPTION       AMPS & POLES       AMPS & POLES       AMPS & POLES       BREAKER OPTION       AMPS & POLES       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A/1P       176       1       1       1       1       2       1440       20A/1P       EXTERIOR RECEPTACLES         SPACE       -       -       -       -       -       -       4       -       20A/1P       EXTERIOR RECEPTACLES         SPACE       -
DESCRIPTION       BREAKER OPTION       AMPS & POLES       AMPS WOLT AMPERES       VOLT AMPERES       Z G G G G       Z G G       VOLT AMPERES       AMPS & G G       BREAKER OPTION       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A/IP       176       1       1       1       2       1440       20A/IP       EXTERIOR RECEPTACLES         SPACE       -       -       -       -       -       -       2       1440       -       20A/IP       EXTERIOR RECEPTACLES         SPACE       -       -       -       -       -       -       20A/IP       SPACE       -       10       -       20A/IP       SPACE       -       20A/IP       SPACE       -       20A/IP       SPACE       -       20A/IP       SPACE       -       10       -       20A/IP       20A/IP       SPACE       -       14       -       20A/IP       EXISTING       EXISTING       14       -       20A/IP       EXISTING
BREAKER OPTION       AMPS & POLES       AMPS & POLES       AMPS & POLES       BREAKER OPTION       AMPS & POLES       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A/IP       176       0       1       0
DESCRIPTION       BREAKER OPTION       AMPS & POLES       AMPS WOLT AMPERES       C       Z       VOLT AMPERES       AMPS & Q       BREAKER OPTION       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A11P       116       0
BREAKER OPTION       AMPS & POLES       AMPS & POLES       AMPS & POLES       BREAKER OPTION       AMPS & POLES       BREAKER OPTION       LOAD DESCRIPTION         KWAY LIGHTS       20A/IP       176       0       1       0

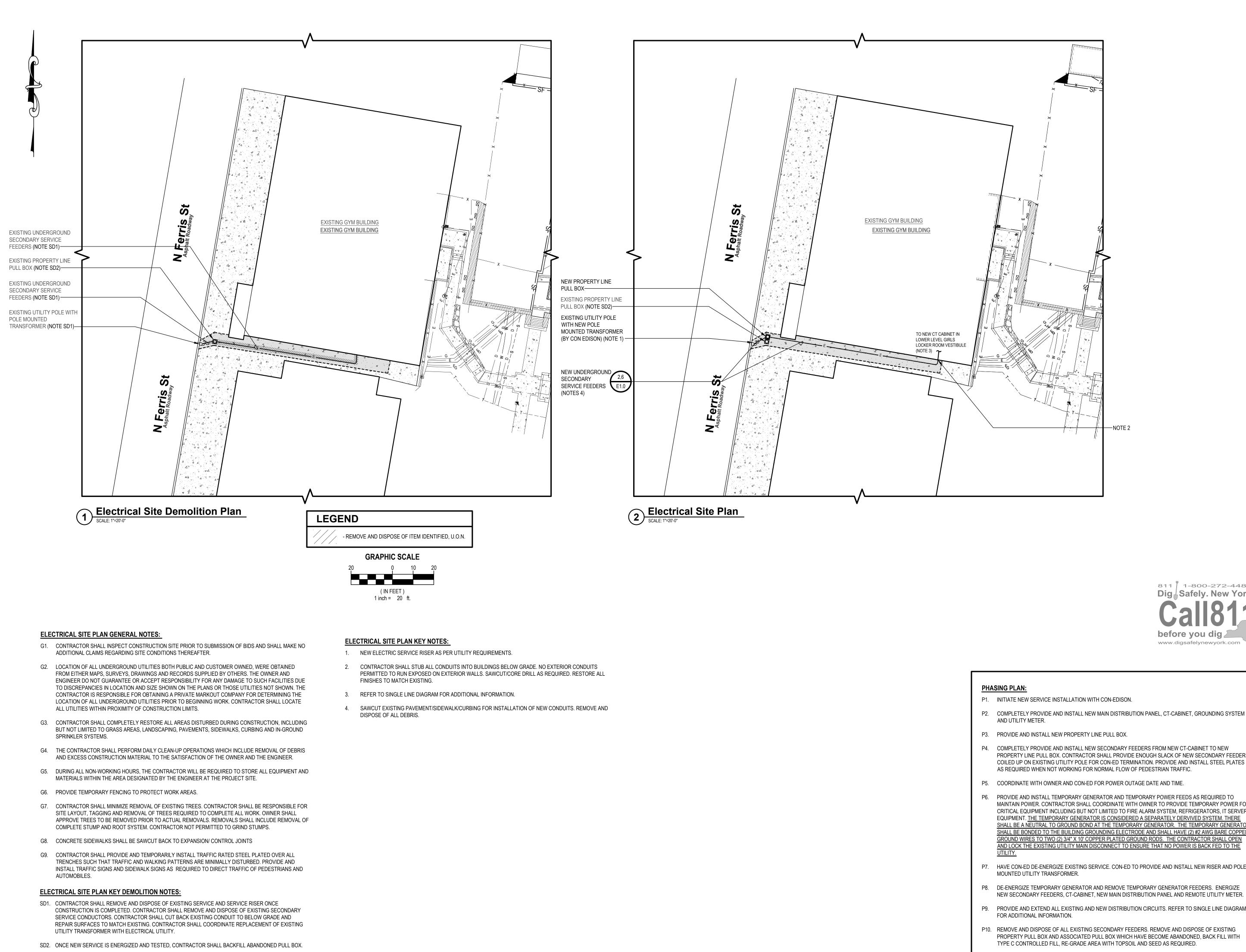
LIGHTING	LIGHTING FIXTURE SCHEDULE											
DESIGNATION	SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	COLOR TEMP	VOLT	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT	DETAIL
F1		HUBBELL OUTDOOR LIGHTING	SGC-20-4K	LED	22	4000	120	2815	SURFACE	NOTE 1	CEILING	-
F2	$\mathbf{X}$	COMPASS	CEWDRE	LED	2.7	-	120	-	SURFACE	-	CEILING	-

LIGHTING FIXTURE SCHEDULE NOTES:

CONTRACTOR SHALL PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT THE LIGHT FIXTURE TO THE WALKWAY STRUCTURE. CONTRACTOR SHALL COORDINATE WITH CONTRACT 'G' FOR FINAL MOUNTING HEIGHT FOR THE LIGHT FIXTURE.

Panelboard Manufacturer Panel Type NEMA Type Encl	P	(EXISTING) DW-R-LINE PRL1	1	Voltage Mains Mountin		120/2 MLO SURI		N	'hase Iains R Options	•	Wire		AIC Rat	EXISTING PA	EXISTING
DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES		NNECTED LO OLT AMPERE Ø B		CIRC. NO.	A	B C	CIRC. NO.		ONNECTED		TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
KISTING		20A/1P	-	/////	/////	1	1∔-	++	2	-	V////	X////	20A/1P		EXISTING
ISTING		15A/1P	V////	-	/////	3		+ +	4	////	7 -	V////	15A/1P		EXISTING
ISTING		15A/1P	V/////	/////	-	5		┼┾	6		X////	7 - 1	15A/1P		EXISTING
ISTING		15A/1P	-	/////	/////	7	1→	++	8	-	V////	X////	15A/1P		EXISTING
ISTING		15A/1P	V////	-		9	$\vdash$	╉┼	10	////	7 - 1	$\overline{V///}$	15A/1P		EXISTING
ISTING		15A/1P	V////	/////	-	11	$\vdash$	┼┾	12		X////	7 - 1	15A/1P		EXISTING
CONTROL PANEL		20A/1P -	-	-		13 15			- 14 - 16	-	X////		30A/2P		EXISTING
SPACE		-	/////	//////	-	17		┼┾	18		X////	//////////////////////////////////////	· -		SPACE
(All Phases to be	balanced to wit		Connected Tr		ØB ØC	EX EX	ISTING	<u>K</u> V4 <u>K</u> V4 <u>K</u> V4	4 4	EXISTIN	IG <u>A</u> mperes	AS - LO - ST - AUX PA - GFC HACI SF -		f device e ttacts k Attachment It Circuit Interrupt C & Refrigeration	

Н	2	)	architects +					
	N		engineers					
	2700 Westchester Avenue, Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com							
CONSULTANTS:	CONSULTANTS:							
MARK	MARK DATE DESCRIPTION							
	11-18-2021	FI	NAL BID DOCUMENT					
DESIGNED BY: LK PROJECT No.:	LK LK/GT							
CLIENT	Irvington Union Free School District Main Street School							
Renovations								
	UNION RREE	PERA AD	1856 LJA					
	101 M Irvingto	lain Son, N	Street 10533					
	101 M Irvingto	lain Son, NY	Street 7 10533 02-02-0-001-016					
SED N	101 M Irvingto umber:6	lain Son, NY 6-04-	Street 7 10533 02-02-0-001-016					
SED N CONTRACT GE	101 M Irvingto umber:6	lain Son, N 6-04- TRAC	Street 7 10533 02-02-0-001-016					
SED N CONTRACT GE STATUS F SHEET TITLE	101 M Irvingto umber:6 CON NERAL O	lain Son, NY 6-04- TRAC CONS	Etreet 10533 02-02-0-001-016					





P2. COMPLETELY PROVIDE AND INSTALL NEW MAIN DISTRIBUTION PANEL, CT-CABINET, GROUNDING SYSTEM

P4. COMPLETELY PROVIDE AND INSTALL NEW SECONDARY FEEDERS FROM NEW CT-CABINET TO NEW PROPERTY LINE PULL BOX. CONTRACTOR SHALL PROVIDE ENOUGH SLACK OF NEW SECONDARY FEEDERS COILED UP ON EXISTING UTILITY POLE FOR CON-ED TERMINATION. PROVIDE AND INSTALL STEEL PLATES AS REQUIRED WHEN NOT WORKING FOR NORMAL FLOW OF PEDESTRIAN TRAFFIC.

P5. COORDINATE WITH OWNER AND CON-ED FOR POWER OUTAGE DATE AND TIME.

P6. PROVIDE AND INSTALL TEMPORARY GENERATOR AND TEMPORARY POWER FEEDS AS REQUIRED TO MAINTAIN POWER. CONTRACTOR SHALL COORDINATE WITH OWNER TO PROVIDE TEMPORARY POWER FOR CRITICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM, REFRIGERATORS, IT SERVER EQUIPMENT. THE TEMPORARY GENERATOR IS CONSIDERED A SEPARATELY DERVIVED SYSTEM. THERE SHALL BE A NEUTRAL TO GROUND BOND AT THE TEMPORARY GENERATOR. THE TEMPORARY GENERATOR SHALL BE BONDED TO THE BUILDING GROUNDING ELECTRODE AND SHALL HAVE (2) #2 AWG BARE COPPER

GROUND WIRES TO TWO (2) 3/4" X 10' COPPER PLATED GROUND RODS. THE CONTRACTOR SHALL OPEN AND LOCK THE EXISTING UTILITY MAIN DISCONNECT TO ENSURE THAT NO POWER IS BACK FED TO THE

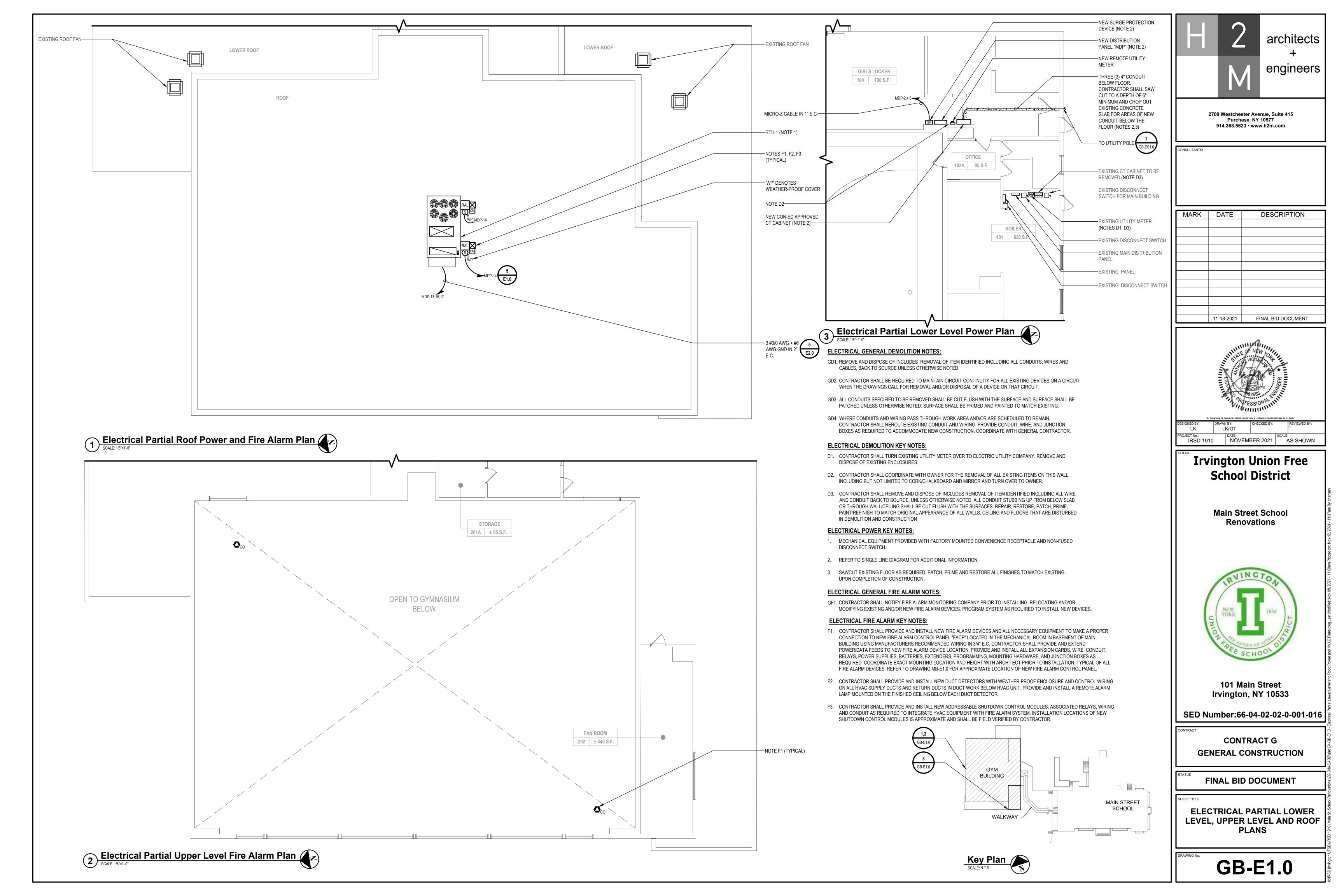
P7. HAVE CON-ED DE-ENERGIZE EXISTING SERVICE. CON-ED TO PROVIDE AND INSTALL NEW RISER AND POLE

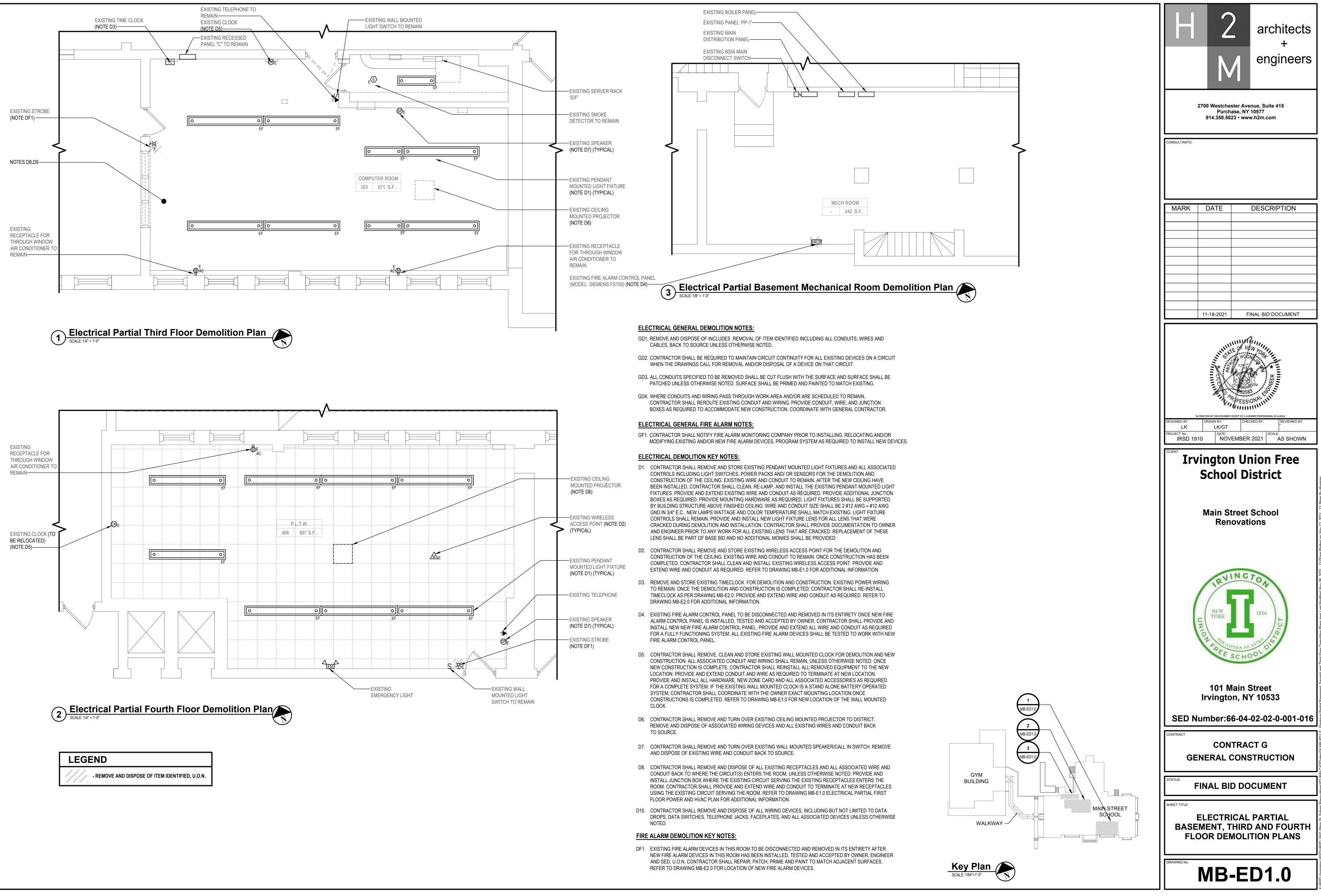
P8. DE-ENERGIZE TEMPORARY GENERATOR AND REMOVE TEMPORARY GENERATOR FEEDERS. ENERGIZE

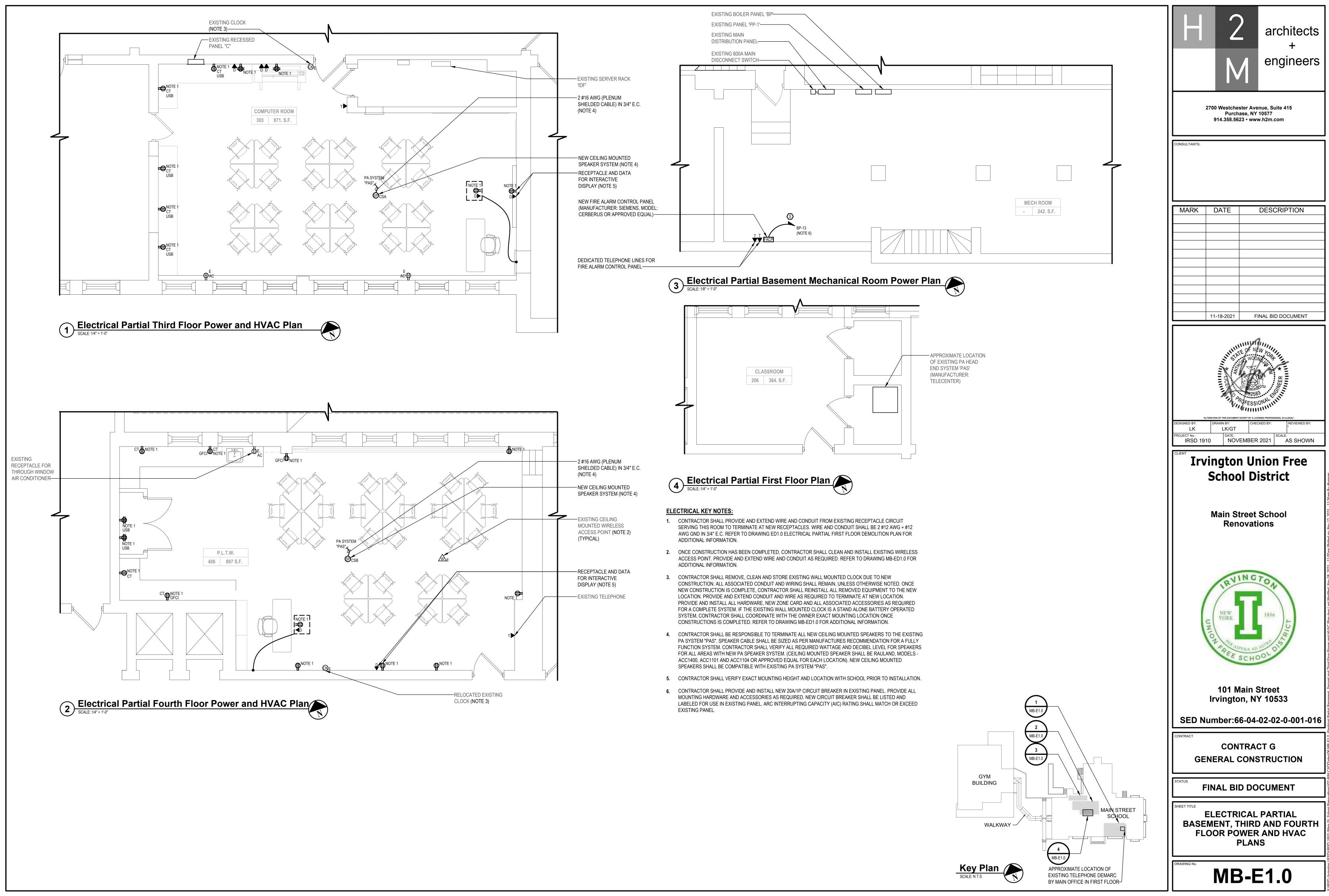
P9. PROVIDE AND EXTEND ALL EXISTING AND NEW DISTRIBUTION CIRCUITS. REFER TO SINGLE LINE DIAGRAM

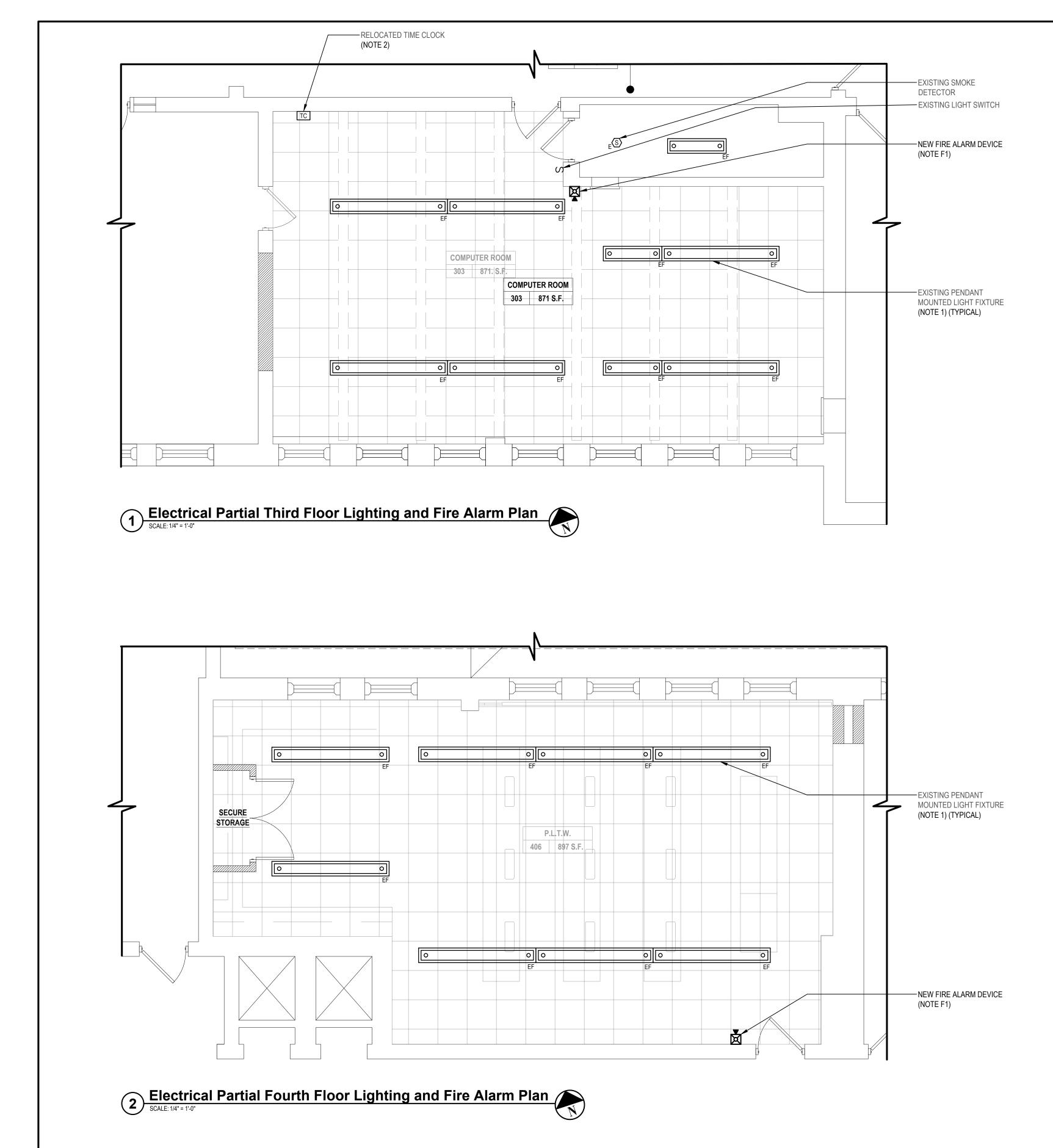
P10. REMOVE AND DISPOSE OF ALL EXISTING SECONDARY FEEDERS. REMOVE AND DISPOSE OF EXISTING PROPERTY PULL BOX AND ASSOCIATED PULL BOX WHICH HAVE BECOME ABANDONED, BACK FILL WITH TYPE C CONTROLLED FILL, RE-GRADE AREA WITH TOPSOIL AND SEED AS REQUIRED.

Η		)	architects				
	N	1	+ engineers				
2700 Westchester Avenue, Suite 415 Purchase, NY 10577 914.358.5623 - www.h2m.com							
CONSULTANTS:							
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DEVICES.

## ELECTRICAL KEY NOTES:

1. CONTRACTOR SHALL RE-INSTALL EXISTING PENDANT MOUNTED LIGHT FIXTURES AND ALL ASSOCIATED POWER PACK, SWITCHES AND OCCUPANCY SENSOR. PROVIDE AND EXTEND EXISTING WIRE AND CONDUIT TO TERMINATE TO LIGHT FIXTURE AS REQUIRED FOR FULLY FUNCTIONING SYSTEM. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. CONTROL OF THESE LIGHTS SHALL BE AS PER EXISTING.

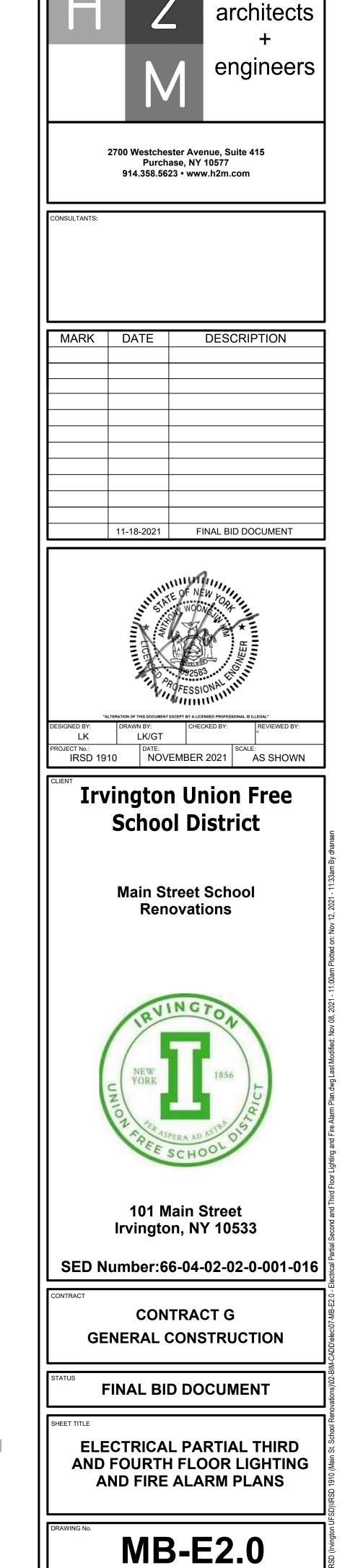
2. EXISTING TIME CLOCK TO BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION. PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED. REFER TO DRAWING ED1.0 FOR ADDITIONAL INFORMATION.

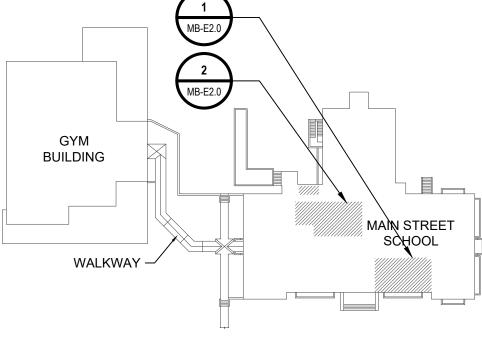
### FIRE ALARM KEY NOTES:

### **ELECTRICAL GENERAL FIRE ALARM NOTES:**

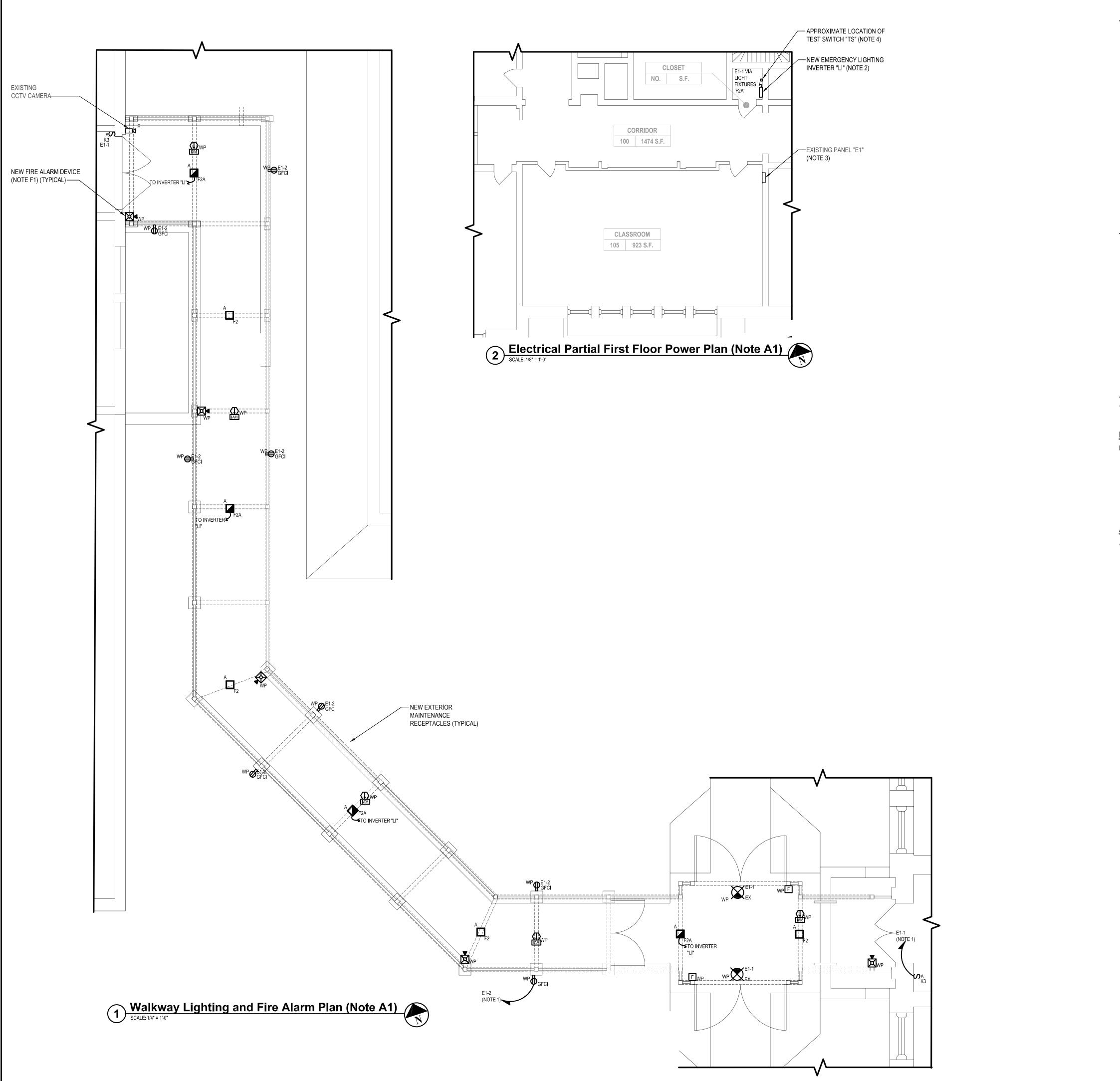
GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO NEW FIRE ALARM CONTROL PANEL "FACP" WHICH IS LOCATED IN THE MECHANICAL ROOM IN BASEMENT USING MANUFACTURERS RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES. REFER TO DRAWING MB-E1.0 FOR APPROXIMATE LOCATION OF FIRE ALARM CONTROL PANEL.





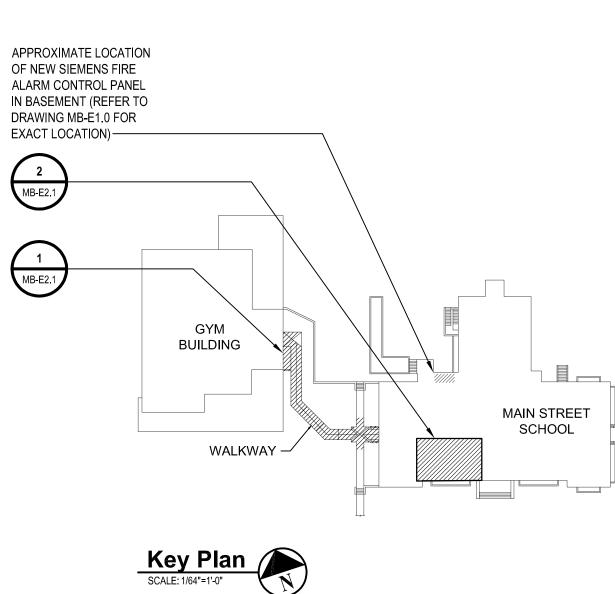




EQUAL.

DEVICES.

## ADD/ALTERNATE NOTES:



## **ELECTRICAL GENERAL LIGHTING NOTES:**

L1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES FOR COMPLETE LIGHTING CONTROL. WHERE 3 OR 4 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.

L2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.

L3. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH, WITH CORRESPONDING LETTER DESIGNATION.

L4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.

L5. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES.

L6. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.

L7. ALL CEILING MOUNTED FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM, FED FROM AN EMERGENCY CENTRAL BATTERY SYSTEM SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.

L8. WIRING FOR EMERGENCY LIGHTING SYSTEM IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY LIGHTING SYSTEM SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.

### **ELECTRICAL KEY NOTES:**

CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL "E1". AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING. REFER TO DETAIL #2 ON THIS DRAWING FOR APPROXIMATE LOCATION OF EXISTING PANEL "E1".

2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW EMERGENCY LIGHTING INVERTER "LI" FOR TYPE F2A FIXTURES LOCATED IN EXTERIOR WALKWAY ENCLOSURE. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. LIGHTING INVERTER SHALL BE DUAL-LITE MODEL #: LG-125-S OR APPROVED

3. CONTRACTOR SHALL CUT WALL AS REQUIRED TO RECESS MOUNT NEW CONDUIT ABOVE EXISTING RECESSED MOUNTED PANEL. PATCH, PRIME AND PAINT WALL TO MATCH EXISTING.

4. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT TEST SWITCH AND CHARGING INDICATOR TO THE WALL AT 48" A.F.F. REFER TO MANUFACTURER WIRING DIAGRAM FOR ADDITIONAL INFORMATION. PROVIDE AND INSTALL A PHENOLIC NAMEPLATE STATING " TEST SWITCH FOR EMERGENCY WALKWAY LIGHTING".

### **ELECTRICAL GENERAL FIRE ALARM NOTES:**

GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

### ELECTRICAL FIRE ALARM NOTES:

F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO NEW FIRE ALARM CONTROL PANEL "FACP" WHICH IS LOCATED IN THE MECHANICAL ROOM IN BASEMENT USING MANUFACTURERS RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES. REFER TO DRAWING MB-E1.0 FOR APPROXIMATE LOCATION OF FIRE ALARM CONTROL PANEL IN BASEMENT.

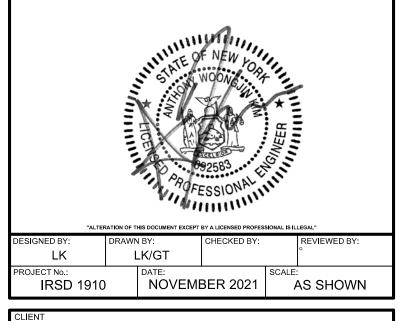
A1. CONTRACTOR SHALL INCLUDE ALL MATERIAL AND LABOR COSTS ASSOCIATED WITH THE WORK SHOWN ON THIS DRAWING IN ADD/ALTERNATE #E1 ONLY.



architects engineers

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## **Irvington Union Free School District**

Main Street School Renovations



101 Main Street Irvington, NY 10533

SED Number:66-04-02-02-0-001-016

## **CONTRACT G GENERAL CONSTRUCTION**

FINAL BID DOCUMENT

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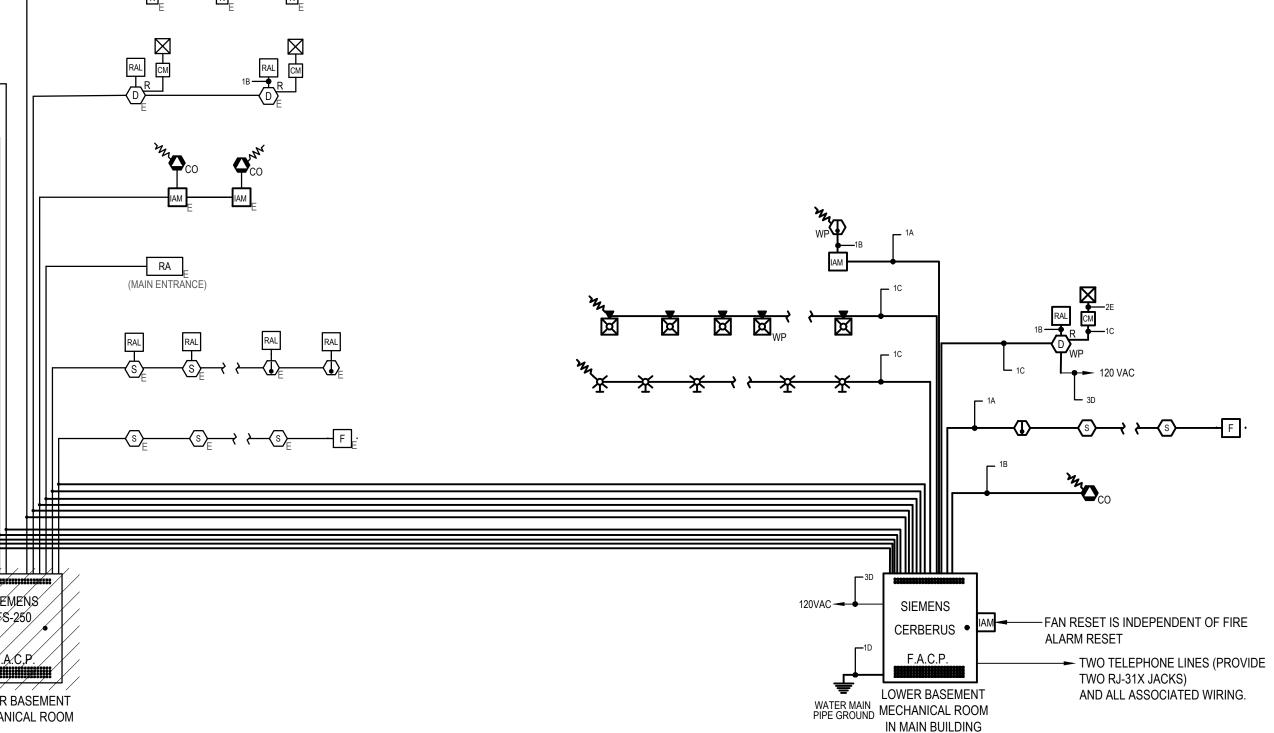
ELECTRICAL WALKWAY LIGHTING AND FIRE ALARM PLANS (NOTE A1)

# **MB-E2.1**

[				
	FIRE ALARM LEGEND		TYPICAL DEVICE LOCATIONS	
SYMBOL	DESCRIPTION	COMMENTS	CEILING	
FACP	FIRE ALARM CONTROL PANEL.			
	REMOTE ANNUNCIATOR WITH BACKBOX.			
	SMOKE DETECTOR.		AUDIBLE	
RAL	ABOVE CEILING SMOKE DETECTOR WITH REMOTE ALARM LAMP.			
	DUCT DETECTOR WITH REMOTE ALARM LAMP; "S" DENOTES SUPPLY, "R" DENOTES RETURN.			
	HEAT DETECTOR.		PULL STATIONS	
(I) <sub>F</sub>	HEAT DETECTOR 200°.		FIRE ALARM	
Co	CARBON MONOXIDE DETECTOR			
<u> </u>	HORN/STROBE COMBO.		80"	
	SPEAKER/STROBE COMBINATION			
	WEATHER PROOF HORN/STORBE COMBO WITH BACKBOX.		48"	
AM	ADAPTER MODULE WITH MOUNTING PLATE.			
SH	SMOKE HATCH (F.B.O.).			
¥ 	STROBE.			
	MAGNETIC DOOR HOLDER. MANUAL PULL STATION WITH BACKBOX.		1 Typical Fire Alarm Device Location	
R F	RELAY.		SCALE: N.T.S	
IAM	INDIVIDUAL ADDRESSABLE MODULE.			
AES	AUTOMATIC EXTINGUISHING SYSTEM.			
	MOTOR STARTER.			
'n	END OF LINE RESISTOR.			
BT	BEAM DETECTOR TRANSMITTER.			
BR	BEAM DETECTOR RECEIVER.			
SP	SURGE PROTECTOR.			
, Ŏ	BELL/STROBE.			
	SMOKE DETECTOR FOR ELEVATOR RECALL.			
	SUPPRESSION RELEASING PANEL. MAINTENANCE SWITCH.			
SOL	SOLENOID (F.B.O.).			
PS	PRESSURE SWITCH.			
TS	TAMPER SWITCH			
FS	FLOW SWITCH		'E' DENOTES EXISTING ↓ E DENOTES EXISTING	
CS	COIL SUPERVISORY (F.B.O.).		FIRE ALARM DEVICES (TYPICAL)	
CL	AIR COMPRESSOR, LOW PRESSURE (F.B.O.).			
сн И О В	AIR COMPRESSOR, HIGH PRESSURE (F.B.O.).			
B STAGE 2	STAGE 2 BELL.			
			$\begin{array}{c} & & & & & & \\ & & & & & & \\ & & & & & $	
				(MAIN ENTRANCE) (MAIN ENTRANCE) RAL RAL RAL RAL $S_E$ $S_E$ $C_E$ $C_E$ $C_E$ $C_E$
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	ACTUA SISPLA CTUA SISPLA ACTUA ACTUA ACTUA ACTUA	NITIAT	(3) Fire Alarm Ri SCALE: N.T.S	ser Diagram (Note 19)
MANUAL			$\sim$	
	DETECTOR			
DUCT DE	ETECTOR		WIRE LEGE	
I —	N MONOXIDE DETECTOR			VIRE DESCRIPTION TYPE NOTES
FA SYST OPEN C	TEM LOW BATTERY			ED SHIELDED #18 AWG FPLP -
GROUNI	D FAULT			VG. NON SHIELDED FPLP -
	CATION APPLIANCE		D #12 AWG. NOM	
	2 Fire Alarm Sequence of Operation		E #14 AWG. NO	N SHIELDED THHN -
	SCALE: N.T.S		F 1 PAIR TWISTE	ED SHIELDED #16 AWG. FPLP -
				OVIDE ALL 120 VOLT CIRCUITS IN CONDUIT.

### FIRE ALARM GENERAL NOTES:

- 1. ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE OR AS DICTATED BY CONTRACT SPECIFICATIONS, AND OF N.F.P.A 72 OR AS REQUIRED BY LOCAL ORDINANCE.
- 2. ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.
- 3. GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE NO. 12 A.W.G.
- 4. ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.
- 5. FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS
- REQUIREMENTS. 6. REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS. DRAWINGS REPRESENT DEVICE QUANTITIES. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING SCALED LOCATIONS. CONTRACTOR TO SUBMIT PLANS STAMPED BY LICENSED NEW YORK PROFESSIONAL ENGINEER ONLY. SHOP DRAWINGS WITHOUT P.E STAMP WILL BE AUTOMATICALLY REJECTED.
- 7. EXISTING FIRE ALARM DEVICES SHALL REMAIN. PROVIDE ALL MATERIALS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO EXPANSION CORDS, ADAPTERS AND PROGRAMMING AS REQUIRED.
- 8. CONTRACTOR RESPONSIBLE TO PATCH & PAINT ALL OPENINGS AS A RESULT OF REMOVAL OF EXISTING EQUIPMENT.
- 9. INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS. COORDINATE EXACT LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL CONTRACTOR
- 10. WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE OBSERVED:
- A. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN.
- B. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.
- 11. ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED. ALL ALARM INDICATING APPLIANCES SHALL SOUND A 'TEMPORAL 3' CODE PATTERN, FOR GENERAL FIRE ALARM AND 'TEMPORAL 4' CODE PATTERN FOR CARBON MONOXIDE ALARM.
- 12. AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM RESET. PROVIDE ALL REQUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND CONTROL WIRING AND CONDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM INDICATION.
- 13. INSTALL ALL DEVICES IN ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED AS FOLLOWS:
- A. MANUAL PULL STATIONS 48" O.C.
- B. ALARM INDICATING APPLIANCE 80" A.F.F.



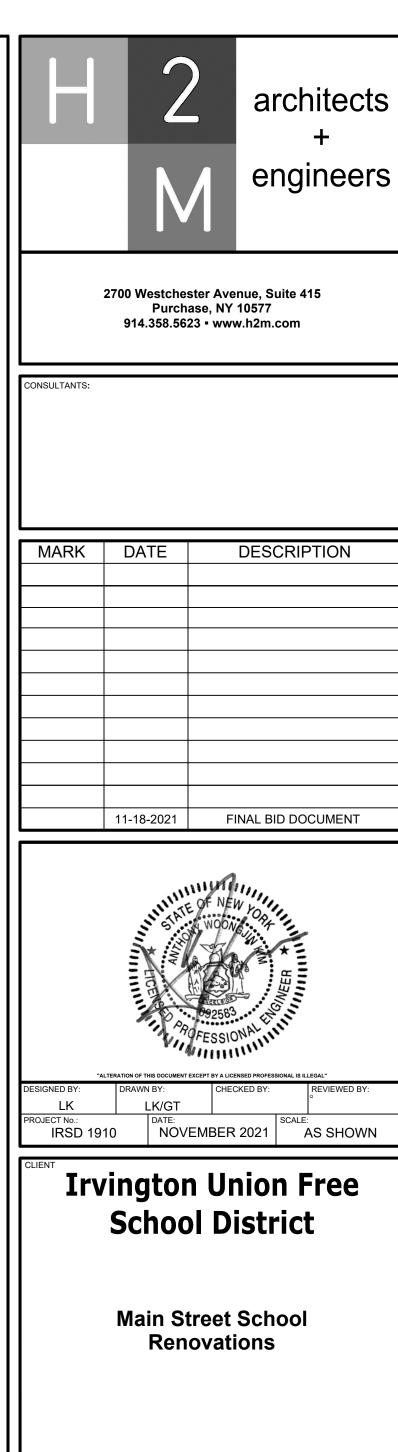
\* PROVIDE ALL 120 VOLT CIRCUITS IN CONDUIT.

## LEGEND

- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

C. VERIFY WITH CONTRACT SPECIFICATIONS FOR ANY DEVIATIONS.

- 14. STROBES SHALL BE WIRED TO REMAIN ACTIVE AFTER SILENCE FUNCTION IS PERFORMED. 15. PROVIDE AND INSTALL ALL NECESSARY CONTROL MODULES, SYNCHRONIZATION MODULES AND MONITOR MODULES AS REQUIRED BY MANUFACTURER.
- 16. COORDINATE EXACT LOCATION OF F.A.C.P. WITH LOCAL FIRE MARSHALL AND OWNER. 17. PROVIDE ALL REQUIRED DUCT SMOKE DETECTORS. CONTRACTOR TO INSTALL DUCT SMOKE
- DETECTORS. CONTRACTOR TO INTERFACE ALL DUCT DETECTORS WITH FACP. 18. CONTRACTOR SHALL PROVIDE TWO TELEPHONE LINES AND TELEPHONE JACKS. PROVIDE ALL REQUIRED WIRING/CONDUIT TO LOCATE NEW TELEPHONE JACKS ADJACENT TO FACP. 19. FIRE ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES AND QUANTITIES.
- 20. ALL HVAC EQUIPMENT WITH A CFM RATING OF 1000 CFM OR GREATER SHALL BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH REMOTE LED'S FOR ALL HVAC UNITS WITH A CFM RATING OF 2000 CFM OR GREATER. CONTRACTOR SHALL PROVIDE AND INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH REMOTE LEDS FOR ALL HVAC UNITS WITH A CFM RATING OF 15000 CFM OR HIGHER.
- 21. IN ADDITION TO DEVICES SHOWN ON THE DRAWINGS CONTRACTOR TO PROVIDE ONE (1) SMOKE DETECTOR, ONE (1)HEAT DETECTOR, ONE (1)PULL STATION, ONE (1)SPEAKER STROBE AND ONE (1) WEATHER PROOF HEAT DETECTOR, ONE (1) CARBON MONOXIDE DETECTOR, ONE (1) STROBE. EACH DEVICE SHALL BE INCLUDED WITH 100' OF WIRING AND/OR CONDUIT.
- 22. PROTECTIVE SHIELDS SHALL BE PROVIDED FOR ALL PULL STATIONS. SHIELDS SHALL FIT OVER MANUAL PULL STATIONS AND SHALL INCLUDE A BATTERY OPERATED PIERCING HORN WHEN THE SHIELD IS REMOVED.
- 23. PLENUM WIRING TO BE USED IN ALL AREAS ABOVE DROP CEILINGS. CONDUIT MUST BE USED IN ALL MECHANICAL AND ELECTRICAL ROOMS. CONDUIT MUST ALSO BE USED IN ALL AREAS WITH OPEN CEILINGS.
- 24. ALL EQUIPMENT TO BE RECESSED MOUNTED AND ALL WIRING AND CONDUIT TO BE RUN CONCEALED
- 25. PROVIDE ALL COMMUNICATION CABLES REQUIRED TO COMMUNICATE BETWEEN EXISTING FIRE ALARM CONTROL PANEL AND NEW FIRE ALARM CONTROL PANEL.





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FIRE ALARM LEGENDS, NOTES AND RISER DIAGRAM

