Harrison Central School District

Building Addition at the Purchase Elementary School

2995 Purchase Street, Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT G - GENERAL CONSTRUCTION CONTRACT H - MECHANICAL WORK

INTERIOR ELEVATION

ELEVATION LINE

PARTITION TYPE

PROJECT LOCATION

RIGID

INSULATION

WOOD BLOCKING

ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.

PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR

AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH

IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING

AREAS SHALL BE FENCED OFF AND PROVIDED WITH

PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR

(4) DURING EXTERIOR RENOVATION WORK, OVERHEAD

WARNING SIGNS TO PREVENT ENTRY.

(5) WORKERS SHALL BE REQUIRED TO WEAR

AT OCCUPIED SITES."

CONTRACT P - PLUMBING WORK CONTRACT E - ELECTRICAL WORK

BUILDING IS OCCUPIED." IT IS OUR INTERPRETATION THAT THE

TERM "BUILDING". AS REFERENCED IN THIS SECTION. MEANS A

COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH

SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED

PASS THROUGH THE OCCUPIED PORTION AND VENTILATION

SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT

SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS

PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED,

AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT

WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE

WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR

11. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR

THE ISOLATION BARRIER.

VISUAL DISTRACTION.

PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT

WING OR MAJOR SECTION OF A BUILDING THAT CAN BE

IN CASE OF AN ACCIDENT, FIRST AID SHALL BE ADMINISTERED

TO ANY WHO MAY BE INJURED IN THE PROGRESS OF THE WORK.

REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE

IN ADDITION, THE CONTRACTOR SHALL BE PREPARED FOR THE

THE CONTRACTOR FOR GENERAL CONSTRUCTION SHALL

PROVIDE TEMPORARY WEATHER-TIGHT AND INSULATED

ENCLOSURES AS MAY BE REQUIRED BY THE SCOPE OF WORK

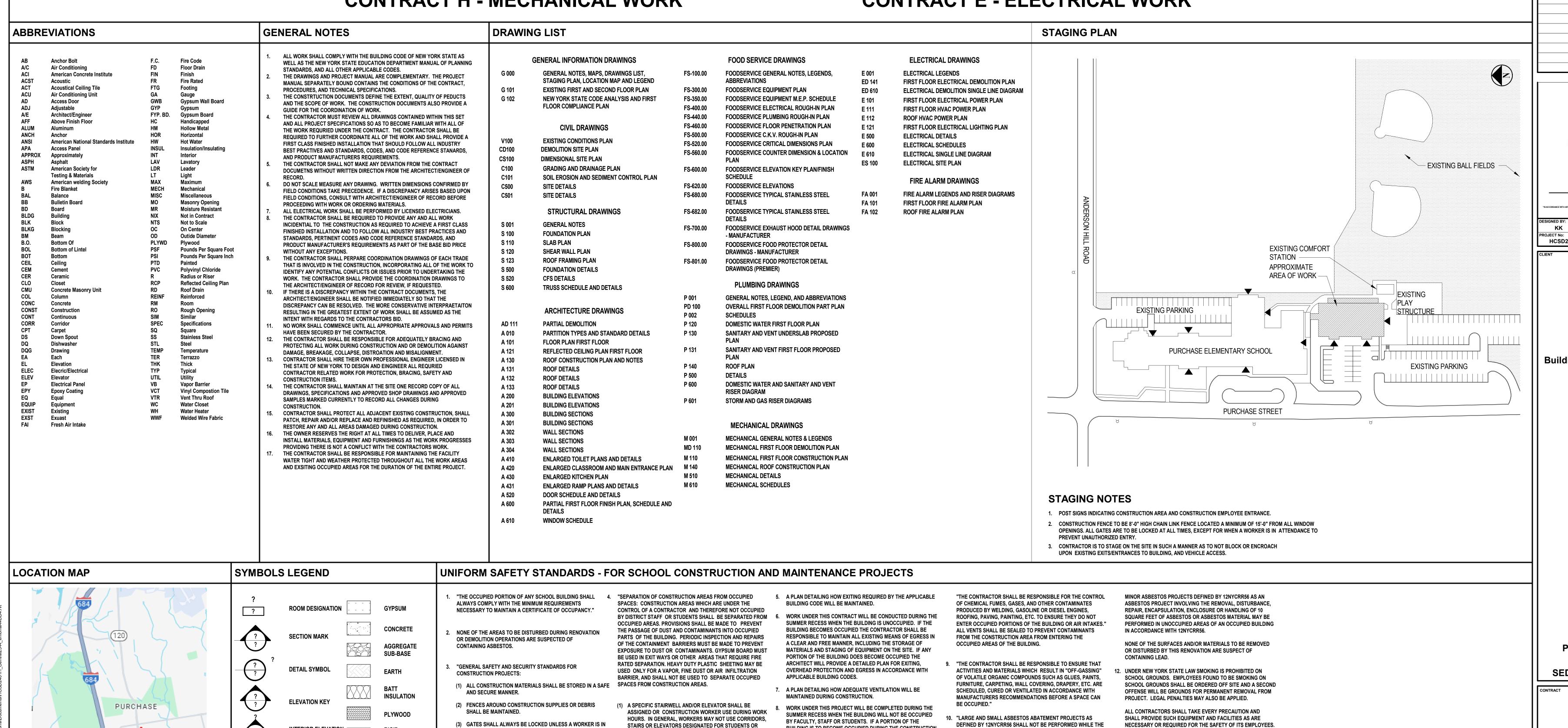
FOR ALL EXTERIOR OPENINGS SO AS TO PROTECT ALL WORK

UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD

END CONDITIONS, REQUIRED EXITS SHALL BE MAINTAINED FREE

FROM THE WEATHER, AND TO PROVIDE SECURITY AGAINST

EITHER SERIOUSLY INJURED OR ILL.



SCHOOL STAFF. WHERE NO STAIRWELL AND OR ELEVATOR IS

ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE

OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE

SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF

RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE

HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL

CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED

OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A

ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION

(2) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING

DROPPED OR THROWN OUTSIDE THE WALLS OF THE

(3) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY

TIMES THAT CLASSES ARE IN SESSION."

SPACES DIRECTLY FROM THE BUILDING EXTERIOR.

BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION

PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES.

CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE

"CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT

SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR

AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR

ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN."

PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR

TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE

MEANS OF FRESH AIR TO ALL OCCUPIED SPACES.

OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT

Melville, NY 11747 631.756.8000 • www.h2m.com tecture & Landscape Architecture: No Certificate Require

DESCRIPTION

NY Engineering Certificate of Authorization No.: 0018178



SAVERIO J. BELFIORE, R.A. 09/30/202 EGM JANUARY 2025 AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

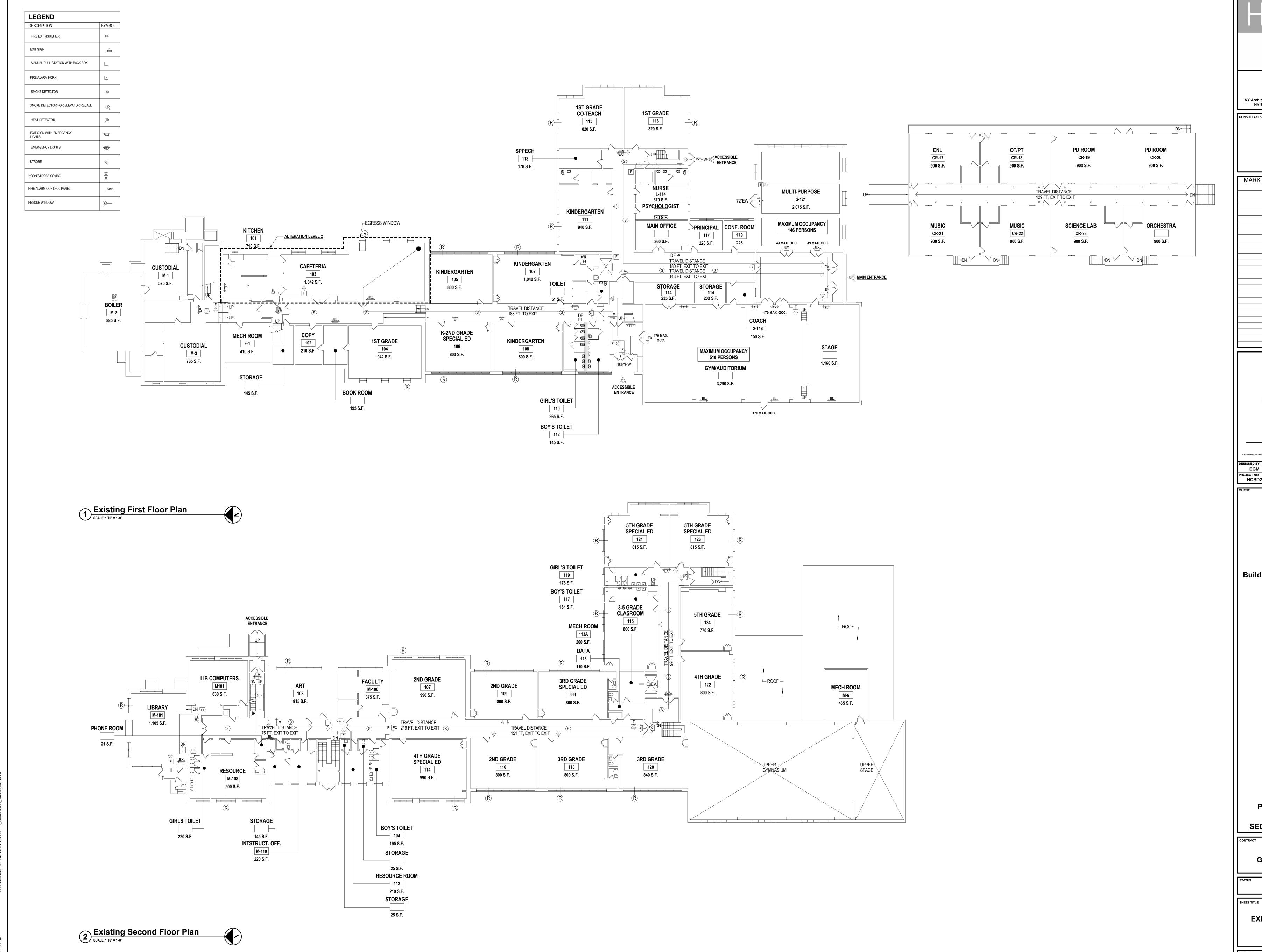
SED No.: 66-05-01-06-0-001-027

ALL CONTRACTS

FINAL BID DOCUMENT

GENERAL NOTES, MAPS, DRAWINGS LIST, STAGING PLAN, LOCATION MAP AND LEGEND

G 000.00



538 Broad Hollow Road, 4th Floor East Melville, NY 11747 631.756.8000 - www.h2m.com NY Architecture & Landscape Architecture: No Certificate Required NY Engineering Certificate of Authorization No.: 0018178

DESCRIPTION MARK DATE 1/23/25 ISSUED FOR BID 8/16/24 SED SUBMISSION



Harrison Central School District

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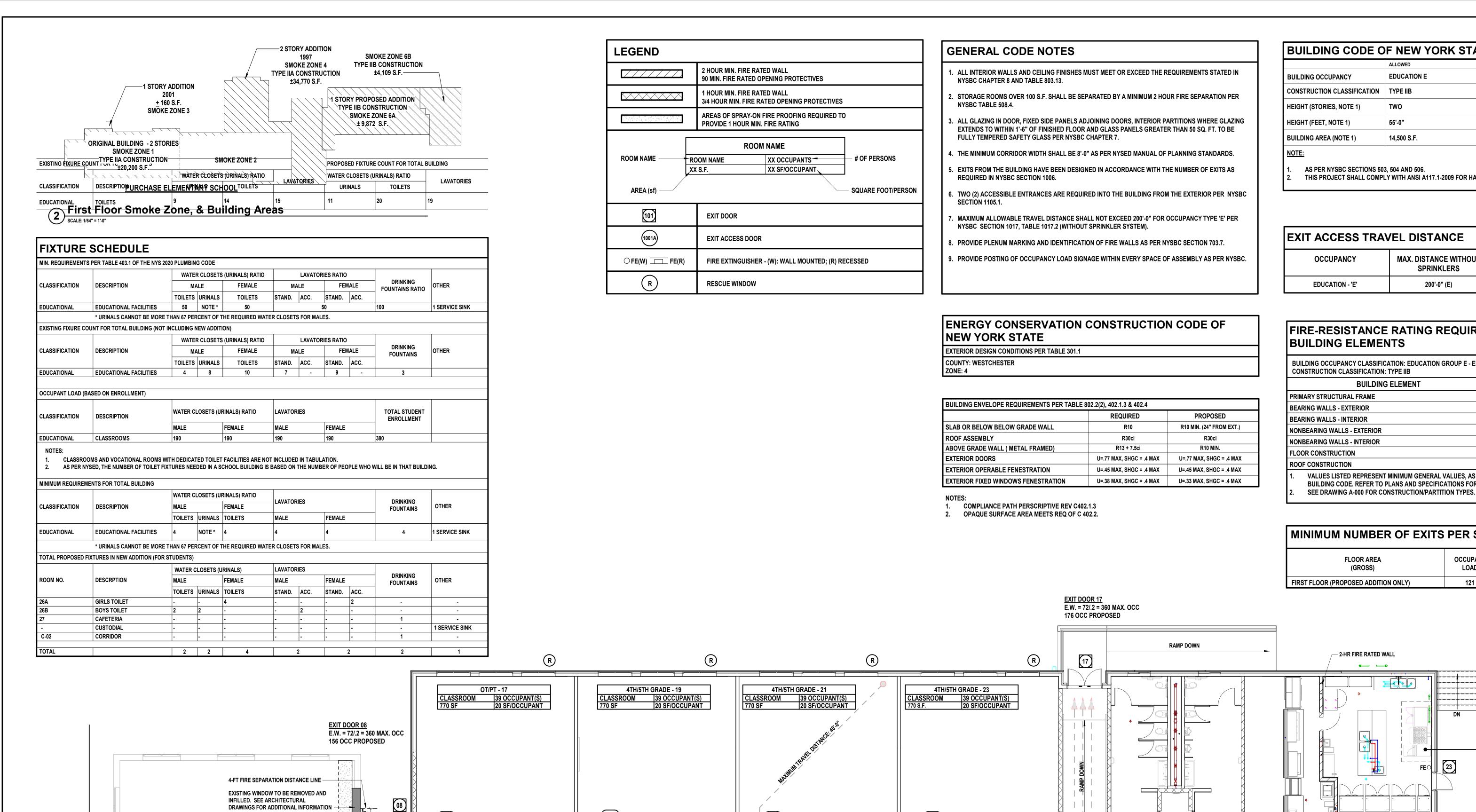
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CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

EXISTING FIRST AND SECOND FLOOR PLAN

G 101.00



DISTANCE TO EGRESS DOOR 01: 149'-0" DISTANCE TO EGRESS DOOR 17: 99'-0"

<u>KXXXXXXXXXXXXXXXX</u>

5TH GRADE - 22

 CLASSROOM
 39 OCCUPANT(S)

 770 SF
 20 SF/OCCUPANT

<u>(16)</u>

RESOURCE

5TH GRADE - 24

ROOM - 25

4TH GRADE CO-TEACH - 20

 CLASSROOM
 39 OCCUPANT(S)

 770 SF
 20 SF/OCCUPANT

 $\overline{)}$

MAXIMUM TRAVEL DISTANCE: 150'-0"

DOOR 08 TO DOOR 17

4TH GRADE - 18

EXIT DOOR 01 E.W. = 72/.2 = 360 MAX. OCC

176 OCC PROPOSED

EXIT DOOR 02 E.W. = 72/.2 = 360 MAX. OCC

176 OCC PROPOSED

LINE OF ROOF OVERHANG ABOVE

EXISTING CONSTRUCTION TYPE IIA TO REMAIN

MULTIPURPOSE ROOM - -

EXISTING OCCUPANY SIGNAGE = 144 PERSONS

PROPOSED 2-HOUR RATED FIREWALL ABUTTING EXTERIOR WALL AND **SEPARATING EXISTING BUILDING** FROM PROPOSED ADDITION -

STRUCTURAL MEMBERS AND **DECKING SPRAYED WITH 1 HOUR**

48 OCC.

DOOR 05 E.W. = 72/.2 = 360 MAX. OCC

DOOR 04 E.W. = 72/.2 = 360 MAX. OCC

153 OCC PROPOSÉD

170 OCC.

PROPOSED FIREWALL IS 2 HR RATED CONSTRUCTION IN COMPLIANCE WITH NYS IBC 706.4 THE WALL AND

RATED FIRE PROOFING

48 OCC.

First Floor Code Compliance Plan

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

REFER TO 'C' DRAWINGS FOR ADDITIONAL SITE INFORMATION.

48 OCC.

BUILDING OCCUPANCY	EDUCATION E	PROPOSED ADDITION EDUCATION E
CONSTRUCTION CLASSIFICATION	TYPE IIB	TYPE IIB
HEIGHT (STORIES, NOTE 1)	TWO	ONE
HEIGHT (FEET, NOTE 1)	55'-0"	± 21'-2"
BUILDING AREA (NOTE 1)	14,500 S.F.	13,603 S.F.

EXIT ACCESS TRAVEL DISTANCE							
OCCUPANCY	MAX. DISTANCE WITHOUT SPRINKLERS	PROVIDED					
EDUCATION - 'E'	200'-0" (E)	SEE PLAN					

BUILDING ELEMENTS	(2020 BCNYS TABLE 601 & 602
BUILDING OCCUPANCY CLASSIFICATION: EDUCATION GROUP E - E CONSTRUCTION CLASSIFICATION: TYPE IIB	DUCATION
BUILDING ELEMENT	HOURS
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR	0
BEARING WALLS - INTERIOR	0
NONBEARING WALLS - EXTERIOR	0
NONBEARING WALLS - INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

MINIMUM NUMBER OF EXITS PER STORY						
		(202	0 BCNYS TABLE 1006.3.2)			
FLOOR AREA (GROSS)	OCCUPANT LOAD	MINIMUM REQ'D # OF EXITS	# OF EXITS PROVIDED			
FIRST FLOOR (PROPOSED ADDITION ONLY)	121	TWO	TWO			

—

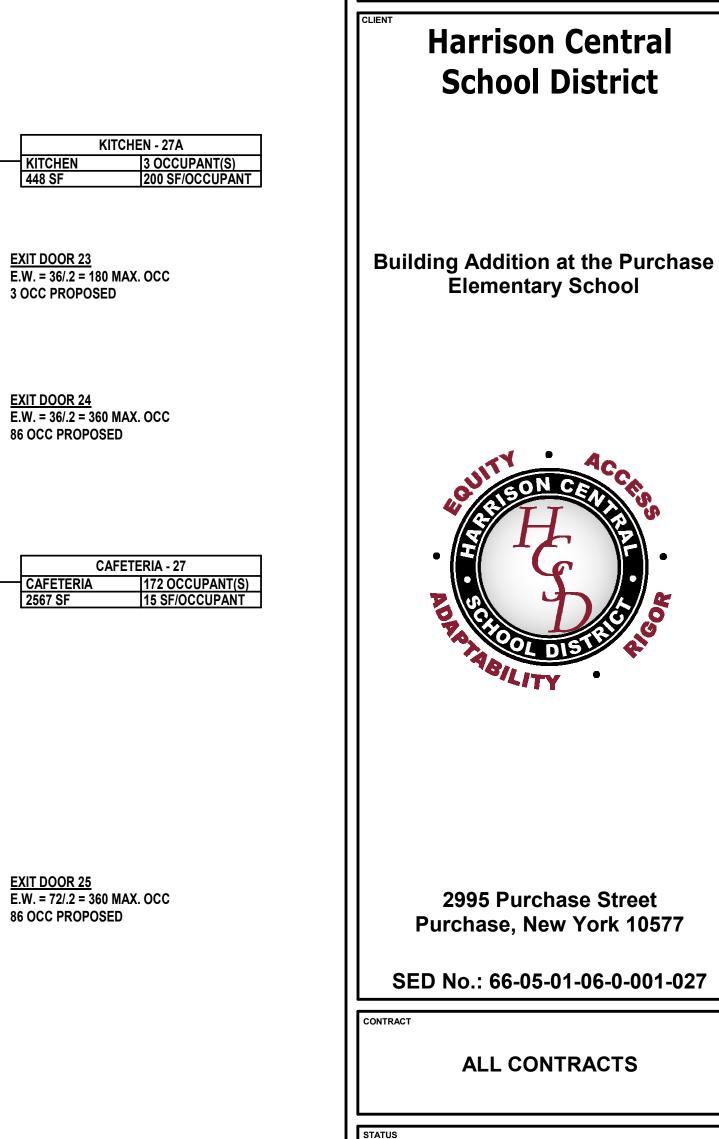
DOOR 17 TO DOOR 24

DISTANCE TO DOOR 25: 34'-0"

RAMP DOWN

20

26



ALL CONTRACTS

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Melville, NY 11747

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DESCRIPTION

ISSUED FOR BID

8/16/24 SED SUBMISSION

SAVERIO J. BELFIORE, R.A.
NY PROFESSIONAL ARCHITECT LIC. NO. 033063

School District

Elementary School

HCSD2401H

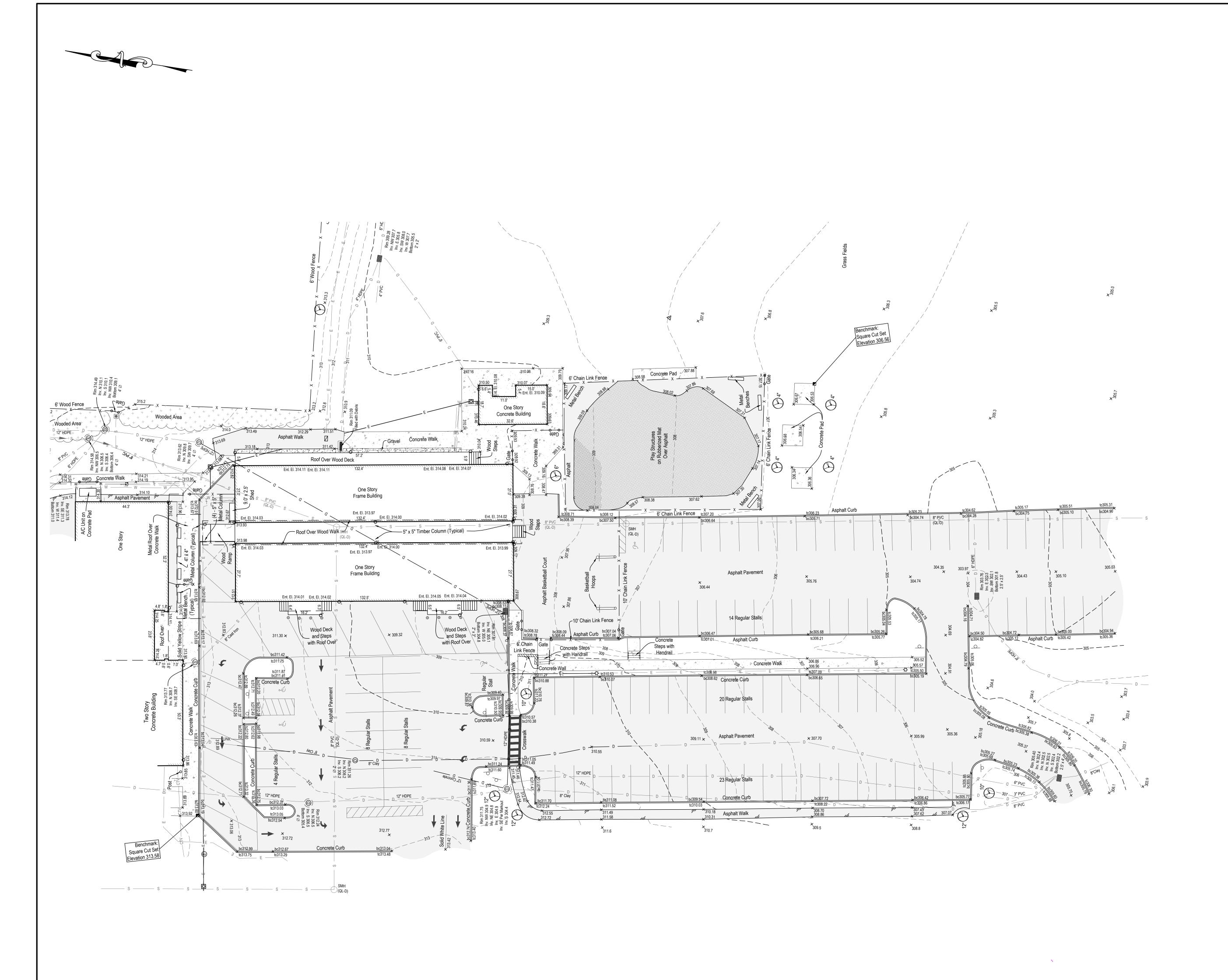
MARK DATE

FINAL BID DOCUMENT

NEW YORK STATE CODE ANALYSIS AND FIRST FLOOR COMPLIANCE PLAN

G 102.00

RELATED STRUCTURE IS INDEPENDENT OF THE EXISTING BUILDING AND COMPLIES WITH NYS BC 706 SEE DETAILS ON A500.00 FOR EXPANSION JOINT DETAIL AT FIRE SEPARATION.





_EGEND			
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
MONUMENT		SPRINKLER HEAD	O+
DRILL HOLE	•	SIGN	- 0
BENCHMARK	^	TWO POST SIGN	00
STAKE	<u> </u>	MANHOLE	\bigcirc
GPS STATION	٨	BOLLARD	©
RON PIPE	0	FLAG POLE	O _{FP}
SURVEY NAIL	©	WETLAND MARKER	₽
DRAINAGE MANHOLE	(D)	EVERGREEN TREE	•
CURB INLET		EVERGREEN SHRUB	©
CATCH BASIN		DECIDUOUS TREE	
NLET		DECIDUOUS SHRUB	\odot
NLET	\bigoplus	CURB =	
WELL		DROP CURB =	
HYDRANT	V	STORM DRAIN -	D D
WATER MANHOLE	W	WATER SERVICE -	WS
WATER METER	\bigotimes_{WM}	WATER MAIN -	— w — w —
WATER VALVE	WV	ROOF LEADER -	L
ROOF DRAIN\LEADER	O_L	HOUSE CONNECTION -	—— нс ——— нс ——
TEST BORE/TEST HOLE	�	SANITARY SEWER -	s
SANITARY MANHOLE	(\$)	UNDERGROUND GAS -	G
CLEAN OUT		UNDERGROUND ELECTRIC -	— в — в —
SANITARY/DRAINAGE FLOW ARR	OW -	UNDERGROUND TELEPHONE -	тт
ELECTRIC MANHOLE	(E)	OVERHEAD WIRES -	O/H O/H
ELECTRIC RISER	\circ_{ER}	FENCE -	x x
IGHT	\Diamond	EDGE OF PAVEMENT	ılı ılı
GROUND LIGHT	4	CONTOUR -	100
PULL BOX		SPOT ELEVATION	100.0 ×
FRAFFIC SIGNAL BOX	\boxtimes	TOP/BOT CURB GRADE	× tc 100.50 bc 100.00
PEDESTRIAN SIGNAL POLE	Ý	HANDICAP PARKING STALL	گ
TRAFFIC SIGNAL POLE	Ф		
JTILITY POLE/GUY POLE	6	ASPHALT PAVEMENT	
GUY WIRE	С		
TELEPHONE MANHOLE	\bigcirc	CONCRETE PAVEMENT	
CABLE TELEVISION BOX			
GAS METER	— ⊠ _{GM}	BRICK/PAVER PAVEMENT	
GAS VALVE	₩.		
GAS RISER	O_{GR}	RUBBERIZED SURFACE	
AONITODING WELL	ØK.	DETECTABLE WARNING DAD	C

EXISTING CONDITIONS NOTES:

MONITORING WELL

IRRIGATION CONTROL BOX

- 1. EXISTING SURVEY PREPARED BY H2M ARCHITECTS + ENGINEERS. DATED FEBRUARY 23, 2024.
- 2. MARKOUT OF UNDERGROUND UTILITIES COMPLETED BY XRAY LOCATING SERVICES, INC. ON FEBRUARY 26, 2024.

DETECTABLE WARNING PAD

- 3. BENCHMARK SQUARE CUT SET IN CONCRETE, NORTHWEST CORNER OF PARKING LOT, ELEVATION 313.58.
- 4. LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES BOTH PUBLIC AND CUSTOMER OWNED, WERE OBTAINED FROM EITHER OLD MAPS, SURVEYS, DRAWINGS/RECORDS SUPPLIED BY OTHERS AND/OR UTILITY MARKOUT. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES AND STRUCTURES NOT SHOWN.

UTILITY NOTES:

SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVELS OF SERVICE (ACCURACY) ALL MARKOUT IS QUALITY LEVEL B UNLESS OTHERWISE NOTED.

QL-A = QUALITY LEVEL A (TEST HOLES)

DATA TYPICALLY ACQUIRED AT ONE POINT ON AN UNDERGROUND UTILITY FEATURE EXPOSED BY AIR VACUUM EXCAVATION OR OTHER MEANS. THE HORIZONTAL AND VERTICAL LOCATION OF THIS REFERENCE POINT IS ACQUIRED AND REPORTED TO ACCEPTABLE SURVEY TOLERANCES. THE ACQUIRED DATA FULFILLS SECTION 5.4.5 ON PAGE 6 OF ASCE STANDARD 38-02.

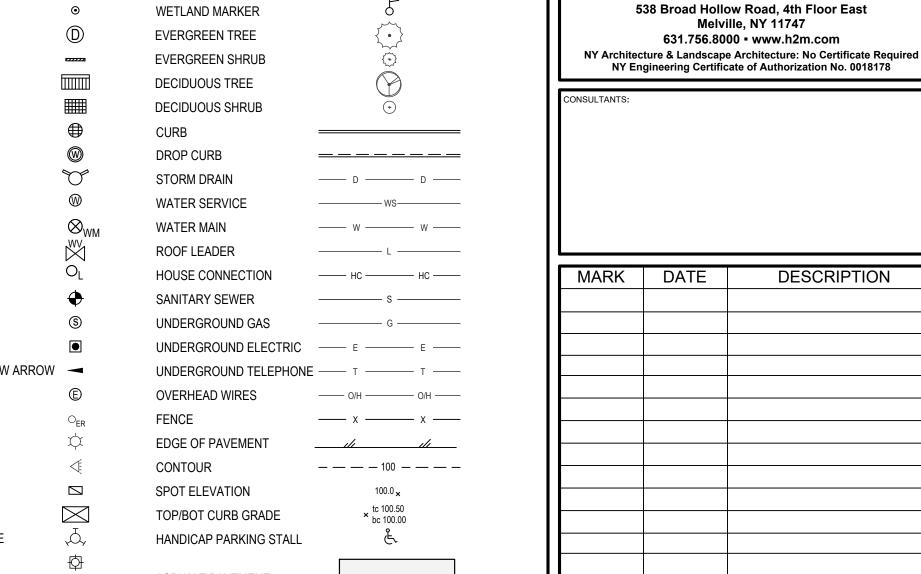
QL-B = QUALITY LEVEL B (UTILITY DESIGNATION)

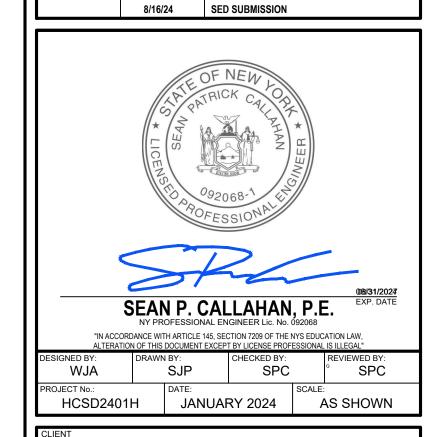
DEPICTION OF AN UNDERGROUND UTILITY LINE ESTABLISHED BY SENSING THE LOCATION WITH ELECTRONIC INSTRUMENTATION. LINEWORK AND UTILITY SURFACE FEATURES ARE ACQUIRED BY SURVEYING POINTS ALONG ALIGNMENT TO ACCEPTABLE SURVEY TOLERANCES.

QL-C = QUALITY LEVEL C (RECORDS PLOTTING)
UTILITY INFORMATION OBTAINED FROM RECORD INFORMATION AND PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN SURVEY LOCATED AND ACCURATELY REDUCED ON TO DESIGN/CONSTRUCTION DOCUMENTS.

QL-D = QUALITY LEVEL D (RECORDS DRAFTING)
DEPICTION OF UNDERGROUND UTILITY LINES BY TRANSPOSITION FROM UTILITY RECORDS OR PLACED FROM VERBAL RECOLLECTIONS WITHOUT BENEFIT OF SURVEYED SURFACE FEATURES. ACCURACY OF INFORMATION IS QUESTIONABLE.

EOI
END OF INFORMATION PERTAINS TO THE LOSS OF SIGNAL THAT HAS BEEN APPLIED TO AN UNDERGROUND UTILITY AND THEN DETECTED TO ELECTRONICALLY LOCATE THE UTILITY. COMMONLY FOUND WHERE UTILITIES CHANGE TO NON-CONDUCTIVE MATERIALS, ARE CUT OR AT END OF UTILITY.





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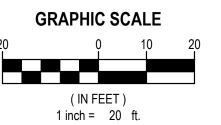
CONTRACT G

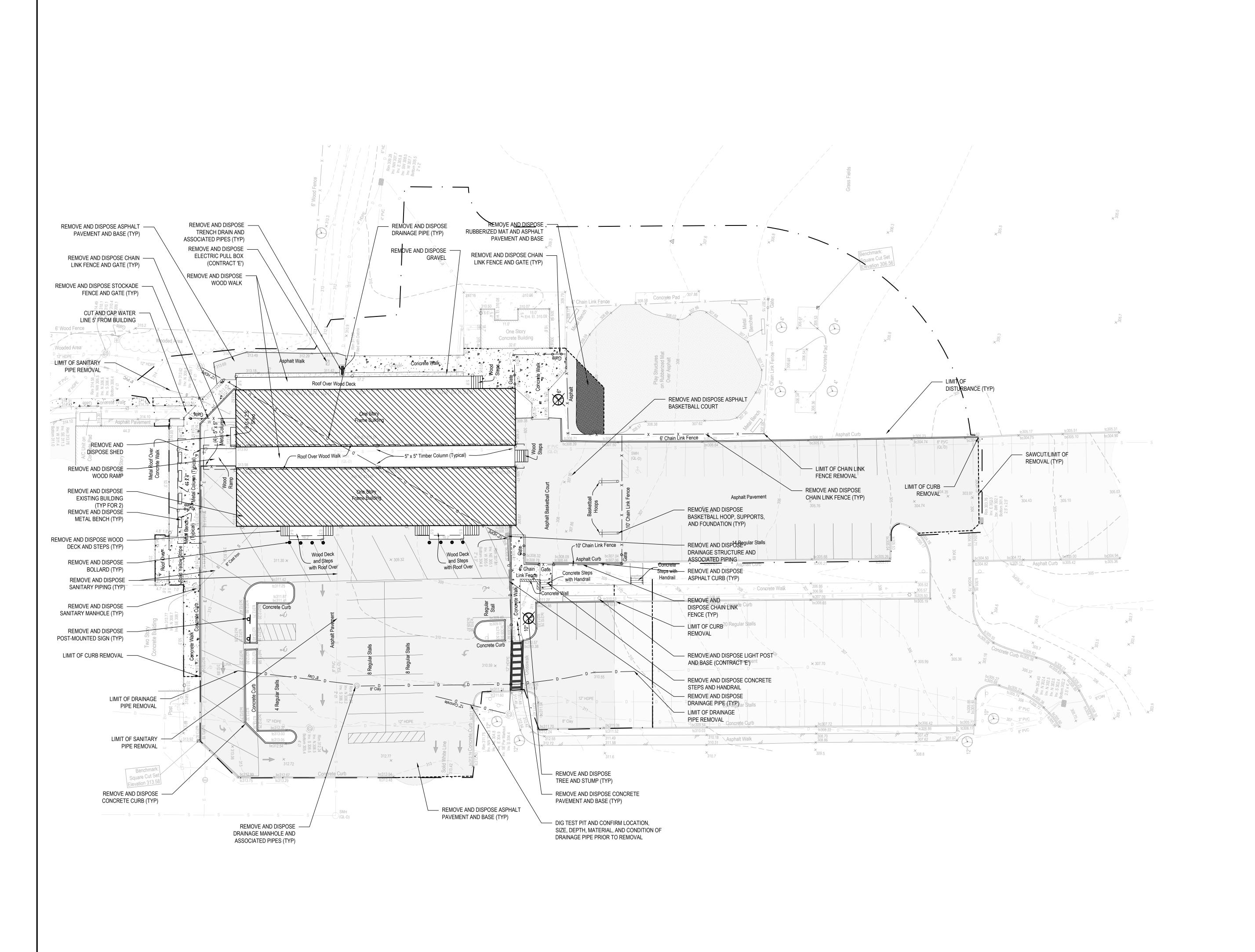
FINAL BID DOCUMENT

GENERAL CONSTRUCTION

EXISTING CONDITIONS PLAN

V 100.00







REMOVE AND DISPOSE

DESCRIPTION

EXISTING TREE

REMOVE AND DISPOSE OF EXISTING CURB SAWCUT PAVEMENT LINE REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT AND BASE

REMOVE AND DISPOSE EXISTING CONCRETE

<u>SYMBOL</u>

SIDEWALK REMOVE AND DISPOSE EXISTING BUILDING REMOVE AND DISPOSE OF

EXISTING CHAIN LINK FENCE REMOVE AND DISPOSE PLAYGROUND SURFACE

REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE

REMOVE AND DISPOSE OF EXISTING DRAINAGE INLET / CATCH BASIN

REMOVE AND DISPOSE OF EXISTING SANITARY LEACHING POOL

REMOVE AND DISPOSE OF EXISTING SANITARY LINE REMOVE AND DISPOSE OF

EXISTING DRAINAGE LINE

SITE DEMOLITION NOTES:

1. REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.

- 2. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FOR DESIGN PURPOSES ONLY. PROVIDE FOR CONSTRUCTION MARKOUT AND LOCATE EXISTING UNDERGROUND UTILITIES. NO EXCAVATION CAN COMMENCE UNTIL UTILITY DOCUMENTATION HAS BEEN COMPLETED.
- STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.

3. AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL SUBSURFACE UTILITIES AND

- 4. NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN, OR ARE INACCURATELY SHOWN ON THE PLANS.
- 5. REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
- 6. REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
- 7. LOCATE ALL COMPONENTS OF ANY EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION AND PROTECT THROUGHOUT THE DURATION OF THE CONTRACT. REPAIR ALL DAMAGED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
- 8. SAWCUT CONCRETE PAVEMENT BACK TO NEAREST EXPANSION/CONTROL JOINT.
- 9. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
- 10. INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ANY GROUND DISTURBANCE.
- 11. DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
- 12. NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
- 13. TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
- 14. BACKFILL ALL VOIDS RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES. BACKFILL TO BE SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.

NYSDEC NOTE:

SAMPLING AND TESTING OF SOILS IN ACCORDANCE WITH THE NYSDEC SOIL CLEAN UP OBJECTIVES PART 375 IS REQUIRED PER NEW YORK STATE. NO SOILS MAY LEAVE SCHOOL PROPERTY WITHOUT TESTING. SOIL REMAINING AND STABILIZED ON SITE DO NOT REQUIRE TESTING.



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NY Architecture & Landscape Architecture: No Certificate Required

NY Engineering Certificate of Authorization No. 0018178

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SEAN P. CALLAHAN, P.E. SPC SJP HCSD2401H JANUARY 2024 AS SHOWN

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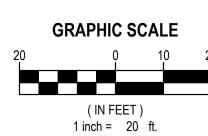
CONTRACT G GENERAL CONSTRUCTION

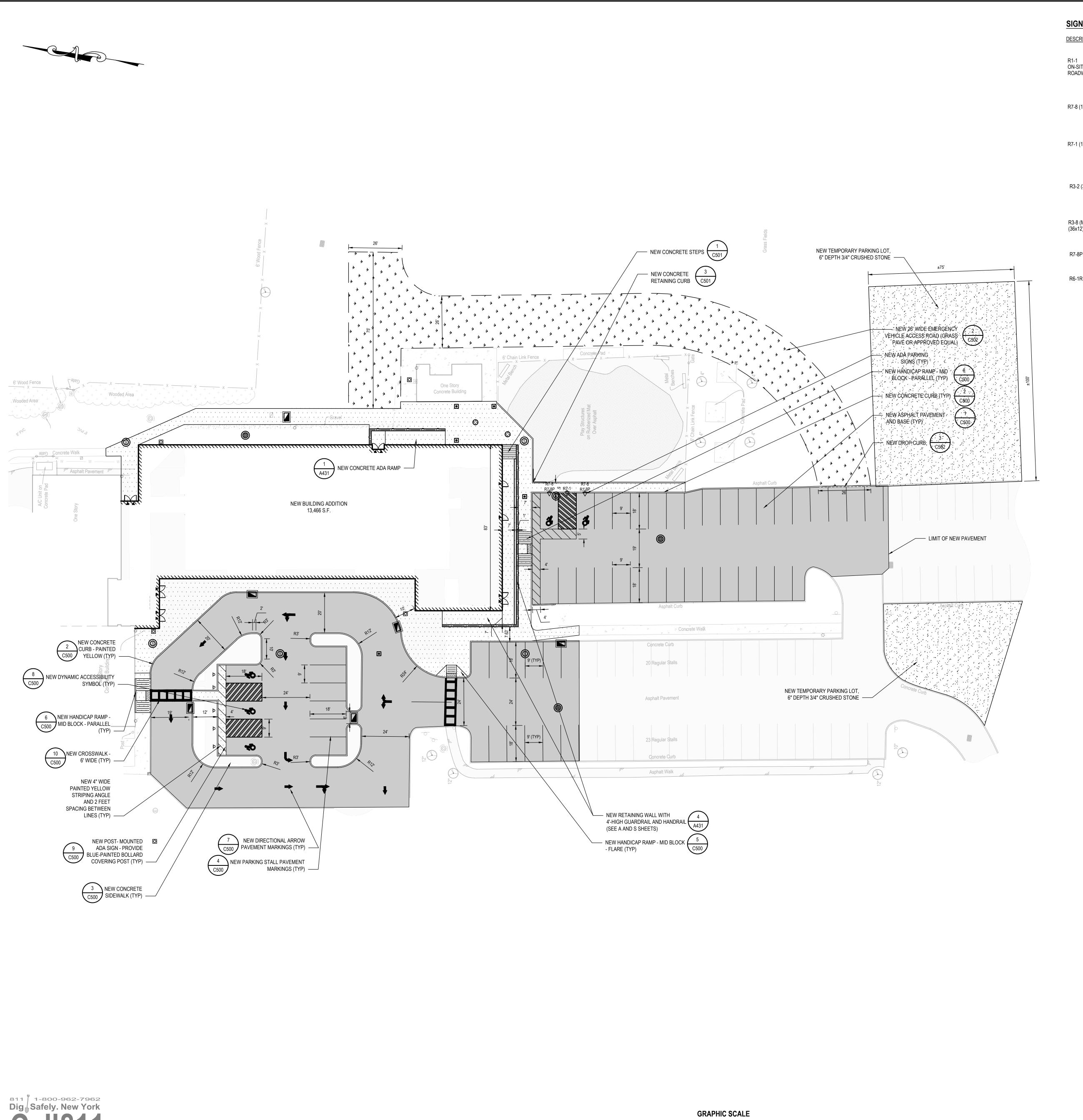
FINAL BID DOCUMENT

DEMOLITION SITE PLAN

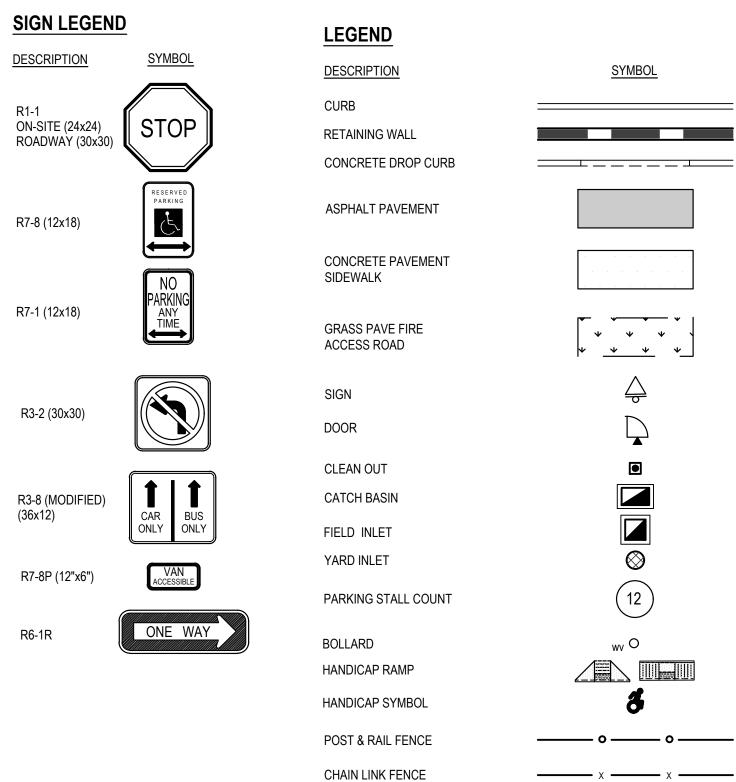
CD 100.00







before you dig



SITE PLAN NOTES:

- 1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
- 2. NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
- 3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
- 4. PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
- 5. DURING ALL NON-WORKING HOURS, STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE OWNER AT THE PROJECT SITE.
- 6. ALL CURB DIMENSIONS SHOWN REFER TO THE FACE OF CURB.
- 7. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.

LIMIT OF DISTURBANCE

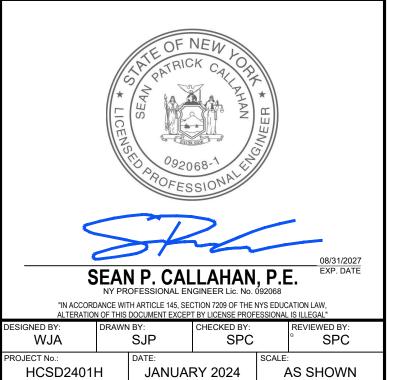
- 8. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERRUPTION TO THE OWNER'S OPERATIONS.
- 9. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION. RESTORE TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 10. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 6 INCHES OF TOPSOIL AND HYDROSEED.
- 11. REMOVE ALL ASPHALT FROM EXISTING CASTINGS.
- 12. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.



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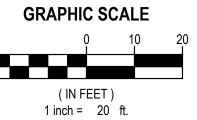
CONTRACT G
GENERAL CONSTRUCTION

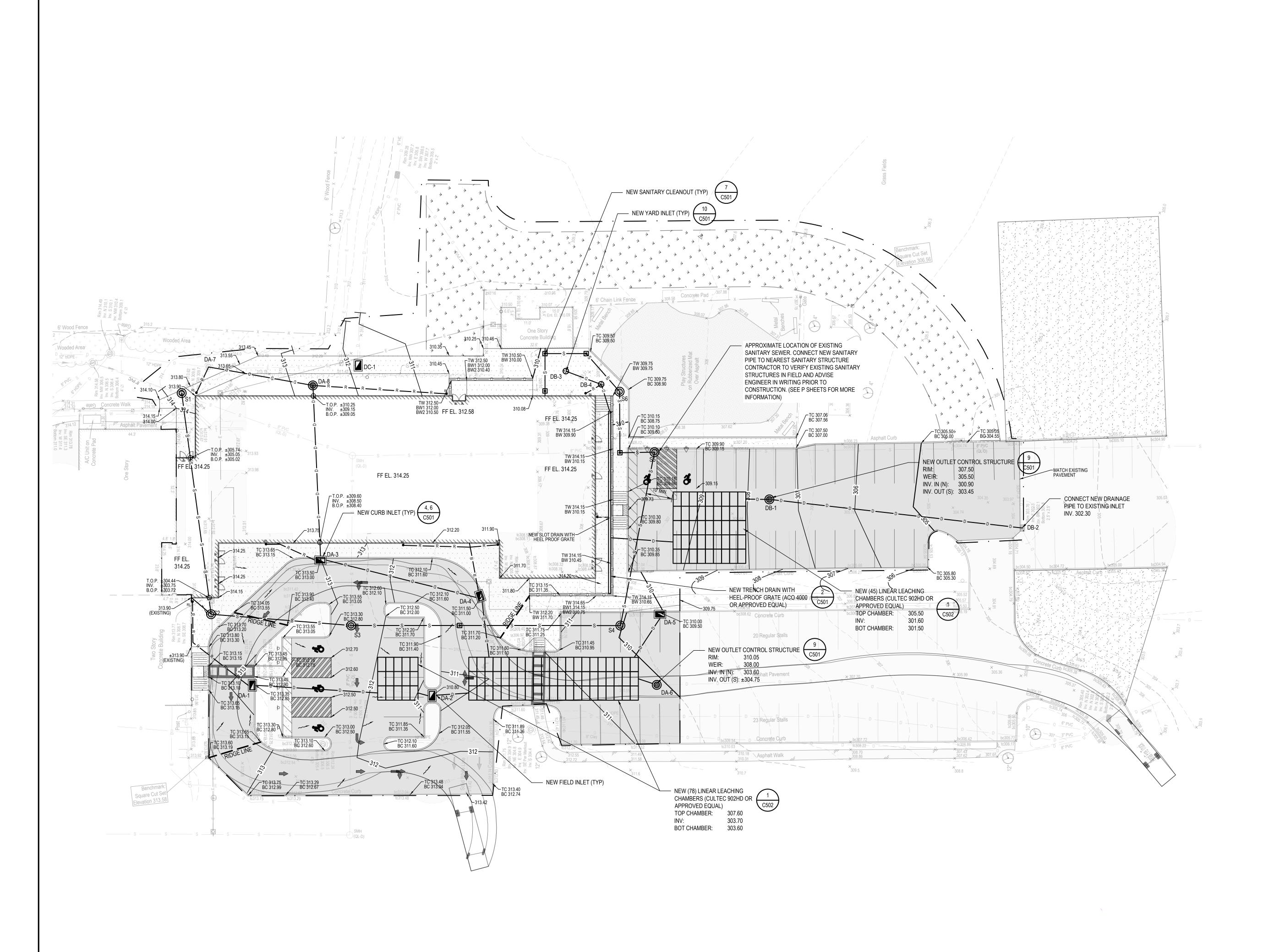
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EET TITLE

DIMENSIONAL SITE PLAN

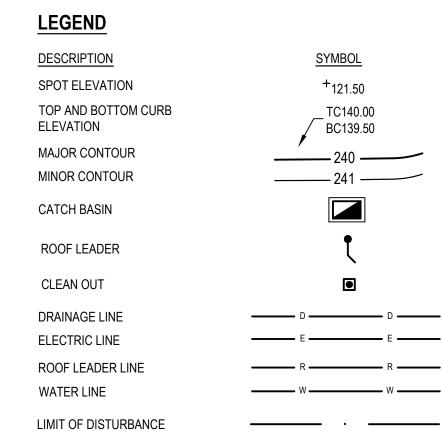
CS 100.00





GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.



GRADING AND DRAINAGE NOTES:

- 1. FOR NEW CONSTRUCTION THAT MEETS EXISTING CONDITIONS, ABUTTING SURFACES SHALL BE FLUSH AND ALIGNED.
- 2. THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF ALL ROOF DRAINS AND SANITARY HOUSE
- 3. ADJUST ALL EXISTING CASTINGS AND VALVE COVERS TO MEET PROPOSED GRADE.
- 4. CONSTRUCTION DEBRIS AND EXCESS SOIL SHALL BE REMOVED AND LEGALLY DISPOSED OFF SITE.
- 5. UNSUITABLE SOILS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION

- ROOF DRAIN TO CATCH BASIN CONNECTIONS: 6"Ø SMOOTH INTERIOR HDPE
- CATCH BASIN TO LINEAR LEACHING CHAMBERS CONNECTIONS: 12"Ø SMOOTH INTERIOR HDPE

STORM DRAINAGE CALCULATIONS

DESIGN CRITERIA			
PROVIDE STORAGE FOR	RUNOFF FROM A	3"	STORM
USE: CULTEC 902HD (OR	R APPROVED EQUAL)		99.28 CF/CHAMBER
RUNOFF COEFFICIENTS			
PAVEMENT	(C=1.0)		

(C=1.0)(C=0.3)LANDSCAPED

VOLUME REQUIRED

SURFACE	<u>AREA</u>	<u>C</u>	STORM	<u>VOLUME</u>
PAVEMENT	26,700 SF x	1.0	x 3/12 =	6,675 CF
ROOF	3,422 SF x	1.0	x 3/12 =	856 CF
LANDSCAPED	970 SF x	0.3	x 3/12 =	73 CF
TOTAL VOLUME REQUIRE	D =			7,604 CF
CHAMBERS BEOLIBED -	7 604	1	99 28 - 76 59 C	HAMBEDS

VOLUME PROVIDED

DRAINAGE SYSTEM "B" LOWER PARKING AREA

VOLUME REQUIRED

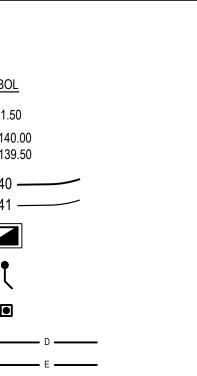
SURFACE	<u>ARE</u>	<u> </u>		<u>C</u>	<u>S</u>	TORM	<u>VOLUME</u>
PAVEMENT	11,653	SF	Χ	1.0	Х	3/12 =	2,914
ROOF	3,674	SF	Χ	1.0	Х	3/12 =	919
LANDSCAPED		SF	Х	0.3	Х	3/12 =	
TOTAL VOLUME REQUIRED) =						3,833
CHAMBERS REQUIRED =		3,8	33	1	99.28	= 38.6	61 CHAMBERS

VOLUME PROVIDED

USE: 45 CHAMBERS VOLUME PROVIDED (45 x 99.28) = 4,467 CF (> 3,833 CF REQ'D)

D	RAINAGE STRUCTURE SCHED	ULE			
STRUCT. NUMBER	STRUCTURETYPE		RIM VATION	INVERT ELEVATIONS	
DA1	CURR INLET	DIM	242.05	S 304.25 (12")	
DAT	CURB INLET	KIIVI	312.85	NE 304.25 (6")	
DA2	CATCH BASIN W/FRAME & GRATE	RIM	310.80	N, S 303.85 (12")	
DA3	CURB INLET	RIM	313.00	E, S 308.40 (12"	
D/ 10	OOND INCEL	TXIIVI	310.00	N 308.40 (6"	
DA4	CURB INLET	RIM	311.00	N, W 307.00 (12"	
DAT	GOLD INCEL	IXIIVI	311.00	E 304.50 (6"	
DA5	CURB INLET	RIM	309.70	W 304.50 (12")	
DA6	OUTLET CONTROL STRUCTURE	RIM	310.05	N 303.60 (12"	
DAG	OUTLET CONTROL STRUCTURE	KIIVI	310.05	S 304.75 (6" PVC	
D47	EVICTING DEATH A CE MANUICI E	DAINACE MANUOLE DIM S	EVICTING DRAINIAGE MANUALE BIM 242 C	242.02	N, S 309.80 (12"
DA7	EXISTING DRAINAGE MANHOLE	RIM	313.62	S 309.80 (6"	
DA8	4' DRAINAGE MANHOLE	DIM	312.75	N, W 309.20 (12"	
DAO	4 DRAINAGE MANHOLE	KIIVI	312.73	S 309.20 (6"	
DB1	OUTLET CONTROL STRUCTURE	RIM	307.50	N 300.90 (8"	
ופט	OUTLET CONTROL STRUCTURE	KIIVI	307.30	S 303.45 (8'	
DB2	EXISTING INLET	DIM	303.76	N, E 302.30 (8"	
DDZ	EXISTING INLET	KIIVI	303.76	E, SW 302.10 (6"	
DB3	12" PVC YARD INLET	RIM	309.65	N, W 305.00 (12"	
מפט	12 FVC TARD INLET	IXIIVI	309.03	NW 305.00 (6"	
DB4	12" PVC YARD INLET	RIM	309.25	S 305.25 (12"	
DC1	CATCH BASIN W/FRAME & GRATE	RIM	311.85	E 308.00 (EX. 4"	

SANITARY STRUCTURE SCHEDULE						
STRUCTURE	RIM	INVERT		TYPE OF STRUCTURE		
ID	KIIVI	IN	OUT	TIPE OF STRUCTURE		
S1	313.90	305.65	305.55	NEW 4'Ø SAN. MANHOLE		
S2	313.80	303.65	303.55	NEW 4'Ø SAN. MANHOLE		
S3	312.55	302.25	302.15	NEW 4'Ø SAN. MANHOLE		
S4	310.15	299.65	299.55	NEW 4'Ø SAN. MANHOLE		
S5	309.45	297.95	297.85	NEW 4'Ø SAN. MANHOLE		
S6	309.75	298.85	298.75	NEW 4'Ø SAN. MANHOLE		



- CONNECTIONS PRIOR TO COMMENCING SITE DRAINAGE AND SANITARY CONSTRUCTION.
- OF THE OWNER AND ENGINEER IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.

PIPE MATERIAL SPECIFICATIONS:

UPPER PARKING AREA

SURFACE	<u>AREA</u>		<u>C</u>	<u>s</u> -	TOF	<u>RM</u>	<u>VOLUME</u>	
PAVEMENT	26,700 SF	Х	1.0	Х	3/	12 =	6,675 CF	
ROOF	3,422 SF	Х	1.0	Х	3/	12 =	856 CF	
LANDSCAPED	970 SF	х	0.3	Х	3/	12 =	73 CF	
TOTAL VOLUME REQUIRED) =						7,604 CF	
CHAMBERS REQUIRED =	7.6	∩4	1	99 28	=	76 59	CHAMBERS	

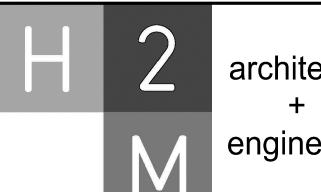
USE: 78 CHAMBERS

VOLUME PROVIDED (78 x 99.28) = 7,743 CF (> 7,604 CF REQ'D)

SURFACE	<u>AREA</u>	<u>C</u>	STORM	<u>VOLUME</u>
PAVEMENT	11,653 SF	x 1.0	x 3/12 =	2,914
ROOF	3,674 SF	x 1.0	x 3/12 =	919
LANDSCAPED	SF	x 0.3	x 3/12 =	
TOTAL VOLUME REQ	UIRED =		-	3,833

D	DRAINAGE STRUCTURE SCHEDULE					
STRUCT. NUMBER	STRUCTURETYPE		RIM /ATION	INVERT ELEVATIONS		
DA1	CURB INLET	RIM	312.85	S 304.25 (12")		
10000000				NE 304.25 (6")		
DA2	CATCH BASIN W/FRAME & GRATE	RIM	310.80	N, S 303.85 (12")		
DA3	CURB INLET	RIM	313.00	E, S 308.40 (12") N 308.40 (6")		
5.4	OURD DU ET		044.00	N, W 307.00 (12")		
DA4	CURB INLET	RIM	311.00	E 304.50 (6")		
DA5	CURB INLET	RIM	309.70	W 304.50 (12")		
DA6	OUTLET CONTROL STRUCTURE	RIM	310.05	N 303.60 (12")		
DAG	OUTLET CONTROL STRUCTURE		310.03	S 304.75 (6" PVC)		
DA7	EXISTING DRAINAGE MANHOLE	RIM	313.62	N, S 309.80 (12")		
				S 309.80 (6")		
DA8	4' DRAINAGE MANHOLE	RIM	312.75	N, W 309.20 (12")		
DAO	4 DRAINAGE MANHOLE		312.73	S 309.20 (6")		
DB1	OUTLET CONTROL STRUCTURE	RIM	307.50	N 300.90 (8")		
551	COTEL CONTINUE OF CONE	- XIIVI	007.00	S 303.45 (8')		
DB2	EXISTING INLET	RIM	303.76	N, E 302.30 (8")		
DDZ	DUSTING INCE!	IXIIVI	300.70	E, SW 302.10 (6")		
DB3	12" PVC YARD INLET	RIM	309.65	N, W 305.00 (12")		
550	12 TVO TAND INCL	, XIIVI	500.00	NW 305.00 (6")		
DB4	12" PVC YARD INLET	RIM	309.25	S 305.25 (12")		
DC1	CATCH BASIN W/FRAME & GRATE	RIM	311.85	E 308.00 (EX. 4")		

SANITARY STRUCTURE SCHEDULE					
TRUCTURE	RIM	INVERT		TYPE OF STRUCTURE	
ID	IXIIVI	IN	OUT	TIPE OF STRUCTURE	
S1	313.90	305.65	305.55	NEW 4'Ø SAN. MANHOLE	
S2	313.80	303.65	303.55	NEW 4'Ø SAN. MANHOLE	
S3	312.55	302.25	302.15	NEW 4'Ø SAN. MANHOLE	
S4	310.15	299.65	299.55	NEW 4'Ø SAN. MANHOLE	
S5	309.45	297.95	297.85	NEW 4'Ø SAN. MANHOLE	
S6	309.75	298.85	298.75	NEW 4'Ø SAN. MANHOLE	



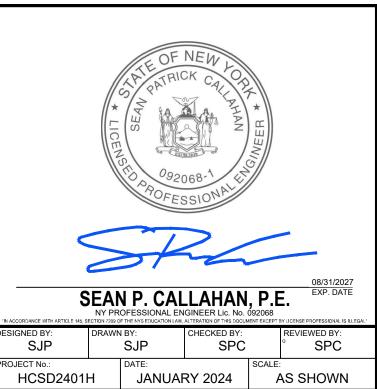
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MARK DATE

DESCRIPTION

1/23/25	ISSUED FOR BID



8/16/24 SED SUBMISSION

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

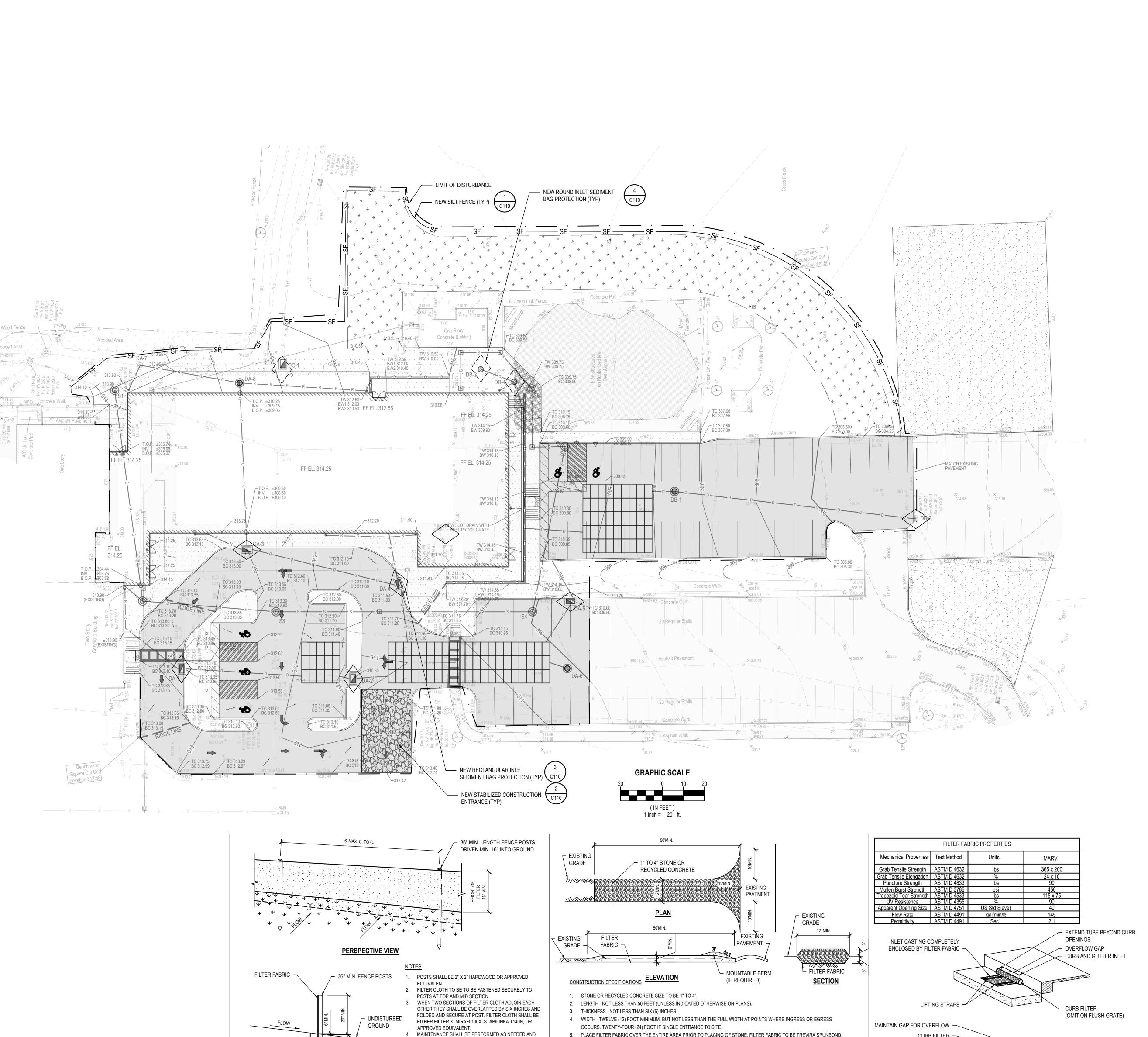
CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

GRADING AND DRAINAGE PLAN

C 100.00





ACCUMULATED SEDIMENT REMOVED WHEN "BULGES"

5. REMOVE SILT FENCE UPON PERMANENT STABILIZATION

DEVELOP IN THE SILT FENCE.

OF UPLAND AREAS.

COMPACTED SOIL -

A MIN. 6" IN GROUND -4"

EMBED FILTER CLOTH

811 1-800-962-7962

Dig Safely. New York

5. PLACE FILTER FABRIC OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER FABRIC TO BE TREVIRA SPUNBOND,

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF

SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC

8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

Stabilized Construction Entrance

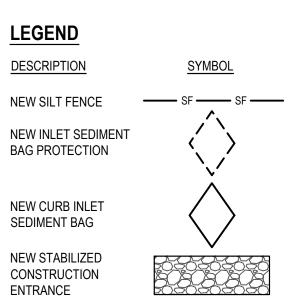
SCALE: NTS (312513.19 NYDC1) - U

BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

1135 MIRAFI 600X OR EQUIVALENT.

RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

APPROVED SEDIMENT TRAPPING DEVICE.



EROSION CONTROL NOTES:

- 1. DURING THE COURSE OF CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEASURES ARE NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO UNDISTURBED AREAS, PONDS, WATER COURSES, DRAINAGE SYSTEMS, RECHARGE BASINS, AND ROADS. THE MINIMUM EROSION CONTROL MEASURES REQUIRED ARE INDICATED ON THIS PLAN. IN ADDITION, THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:
- a. EXISTING VEGETATION SCHEDULED TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
- b. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT THE INCIDENTAL DISCHARGE OF SEDIMENT FROM THE SITE.
- 2. SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES MUST CONFORM TO THE LATEST EDITION OF THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
- 3. INSTALL PROPRIETARY EROSION AND SEDIMENT CONTROL PRODUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- 4. ADJUST EROSION AND SEDIMENT CONTROL MEASURES TO ACCOMMODATE CONSTRUCTION PHASING TO MAINTAIN EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES.

5. PROTECT EXISTING DRAINAGE INLETS WITHIN THE PROJECT LIMITS AND NEW DRAINAGE INLETS

- INSTALLED AS PART OF THIS PROJECT FROM SEDIMENT INTRUSION. 6. PERFORM INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES ON A
- WEEKLY BASIS AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, CLEANING AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL
- 7. UTILIZE APPROPRIATE MEANS TO CONTROL DUST DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO APPLYING WATER TO BARE SOIL SURFACES.
- 8. MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. MAINTAIN THE CONSTRUCTION ENTRANCE WEEKLY UNTIL THE SITE IS PERMANENTLY STABILIZED.
- 9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. AFTER PERMANENT STABILIZATION, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SITE AND DRAINAGE STRUCTURES.

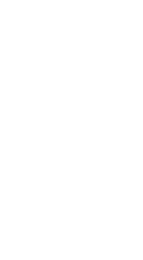
TOTAL LAND DISTURBANCE = 1.67 ACRES

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTES:

- 1. PURSUANT TO THE REQUIREMENTS OF SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY GP-0-20-001 ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THIS PROJECT. ADHERE TO AND IMPLEMENT ALL REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
- 2. REVIEW THE SWPPP AND SIGN IN THE LOCATION SHOWN STATING THAT ALL WORK PERTAINING TO EROSION AND SEDIMENT CONTROL WILL BE PERFORMED WITHIN REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
- 3. THE OWNER SHALL PROVIDE A QUALIFIED INSPECTOR WHO WILL PERFORM WEEKLY INSPECTIONS AT THE CONSTRUCTION SITE. THE QUALIFIED INSPECTOR SHALL MEET THE REQUIREMENTS OUTLINED IN SPDES GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITY (GP-0-25-001). IF THE INSPECTIONS FIND ANY DEVIATIONS FROM THE SWPPP OR THE EROSION AND SEDIMENT CONTROL PLAN IT WILL BE NOTED. THE CONTRACTOR WILL HAVE 7 DAYS TO CORRECT ANY DEVIATIONS SO THAT IT COMPLIES WITH THE REQUIREMENTS OF THE SWPPP AND OR EROSION AND SEDIMENT CONTROL PLAN. IN THE EVENT THAT MORE THAN 5 ACRES OF SOIL IS DISTURBED AT ANY TIME, 2 WEEKLY INSPECTIONS WILL BE PERFORMED.

365 x 200

FILTER FABRIC PROPERTIES



MARK DATE DESCRIPTION

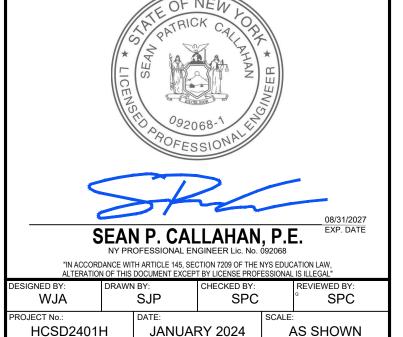
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engineers

1	12-19-24	SED ADDENDUM 1
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SED No.: 66-05-01-06-0-001-027

CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

REMOVE ACCUMULATED SEDIMENT AND DEBRIS AS

REMOVE INLET PROTECTION UPON PERMANENT

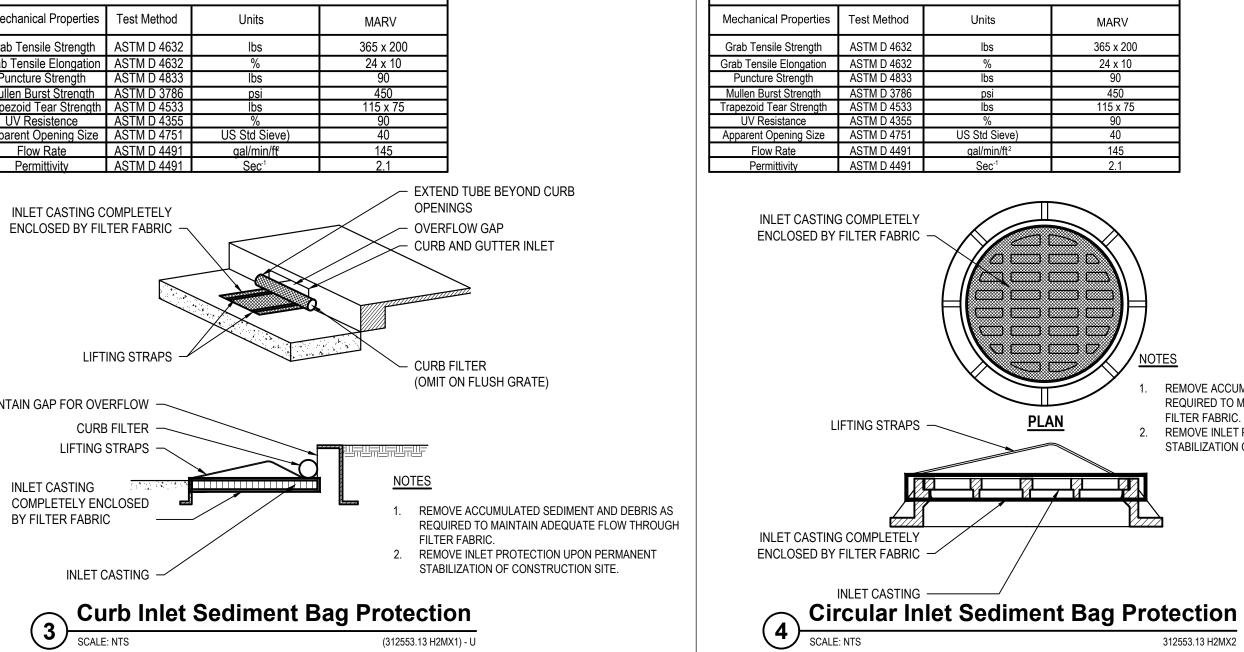
STABILIZATION OF CONSTRUCTION SITE.

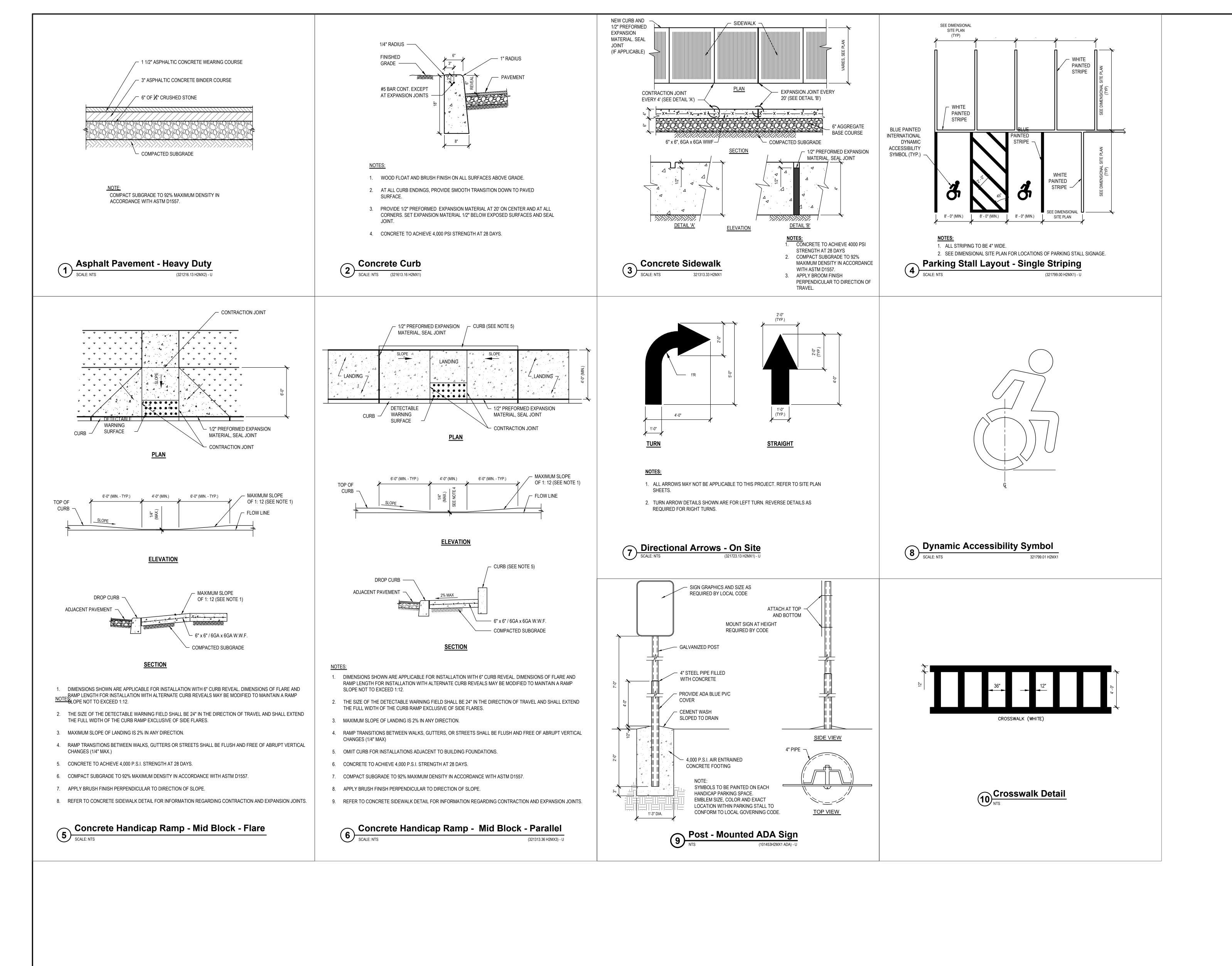
FILTER FABRIC.

REQUIRED TO MAINTAIN ADEQUATE FLOW THROUGH

SOIL EROSION AND SEDIMENT CONTROL PLAN

C 110.00



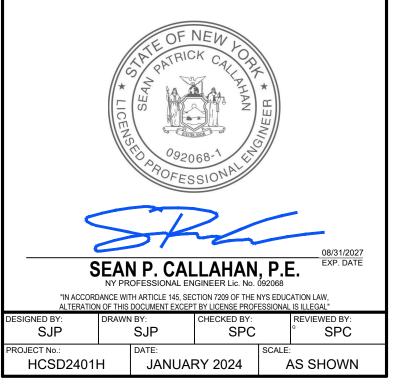


H 2 architect the engineer

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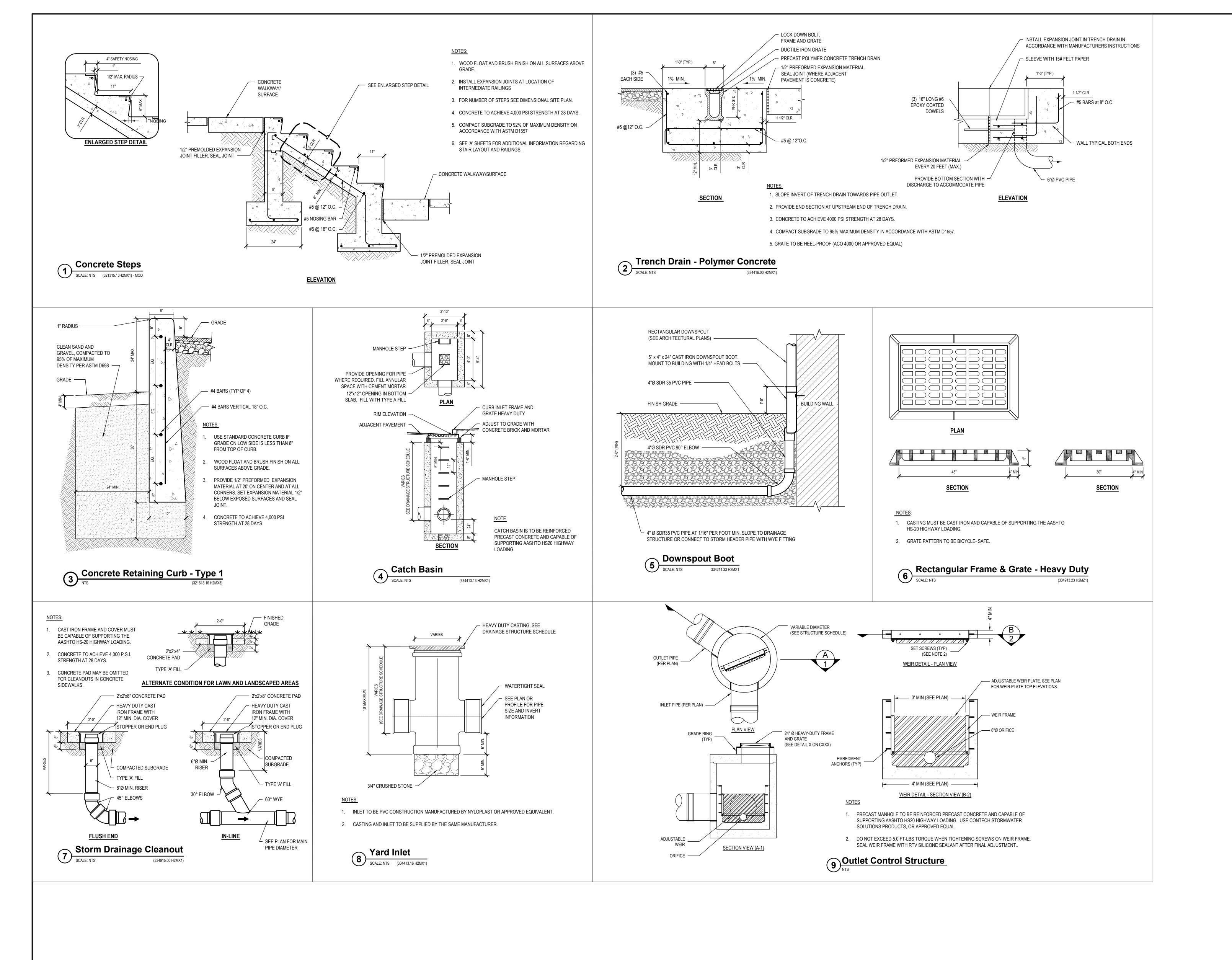
CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

TITLE

SITE DETAILS

C 500.00



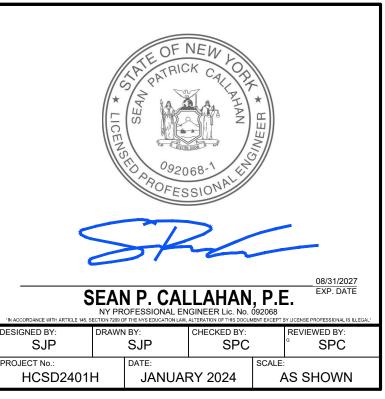
H 2 architects
+ engineers

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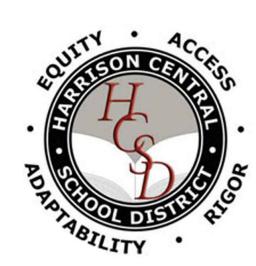
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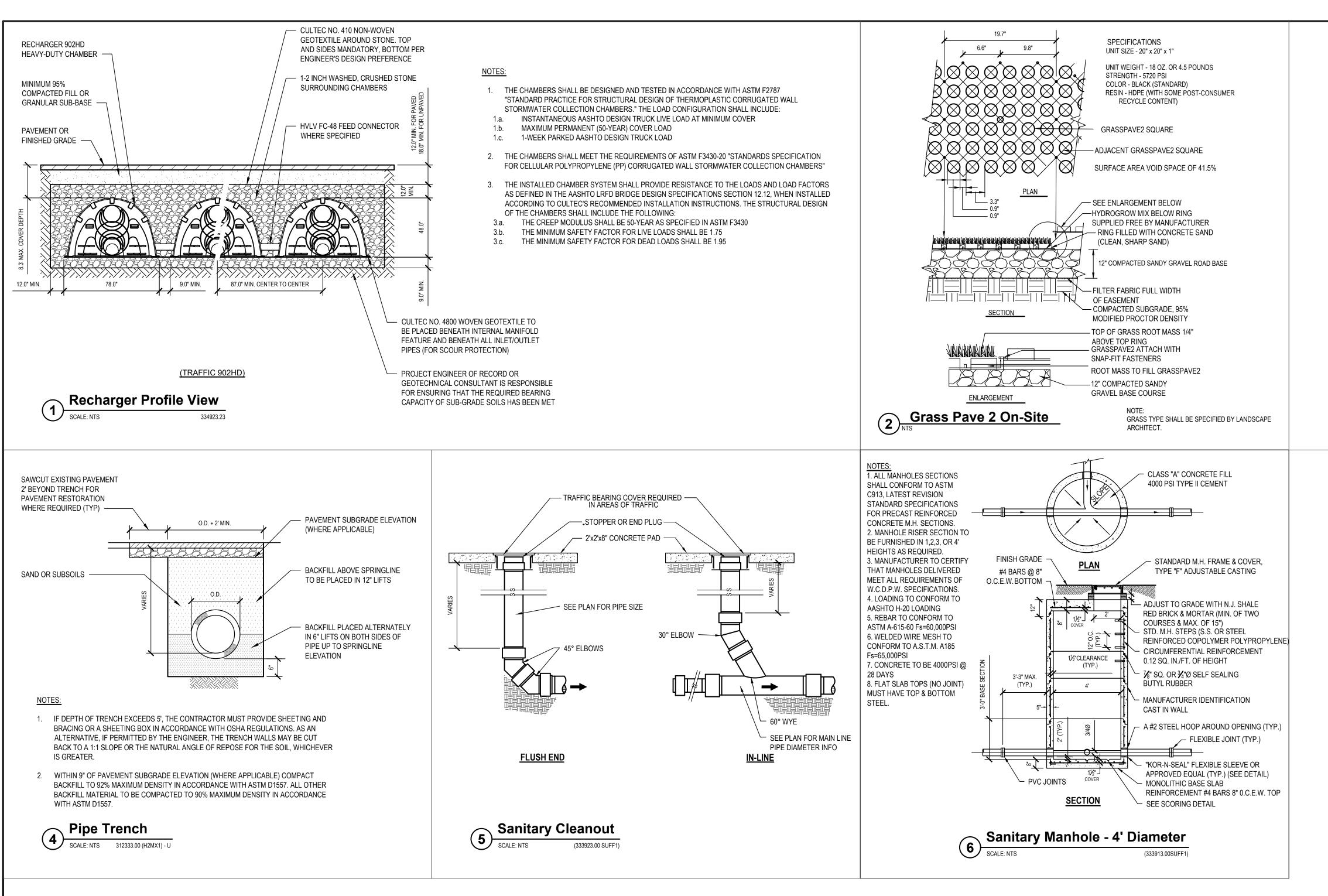
CONTRACT G
GENERAL CONSTRUCTION

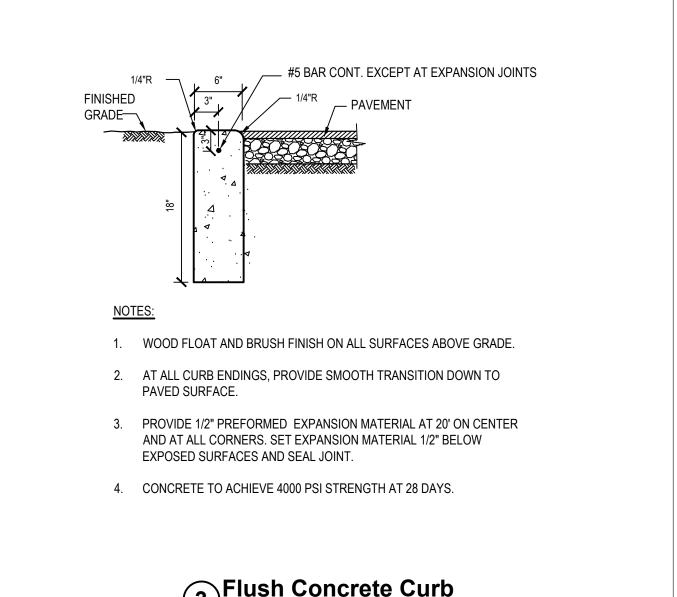
FINAL BID DOCUMENT

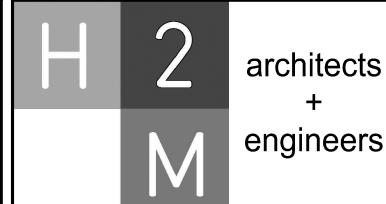
TITLE

SITE DETAILS

C 501.00





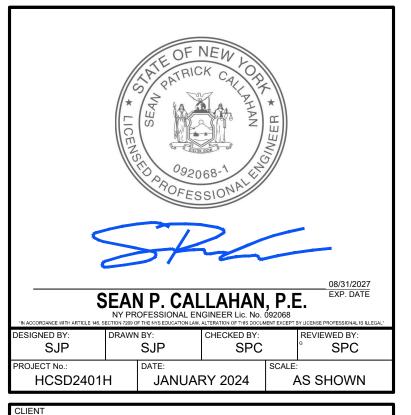


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C 502.00

ROOF BC LIVE LOAD = 20 PSF

FIRST FLOOR COLLATERAL DEAD LOAD = 10 PSF CLASSROOM LIVE LOAD = 40 PSF CORRIDOR LIVE LOAD = 100 PSF ROOF TC LIVE LOAD = 20 PSF ROOF TC DEAD LOAD = 15 PSF

ROOF BC DEAD LOAD = 10 PSF RTU-1 = +/- 4,500 LBS TOTAL OPERATING WEIGHT W/ CURB ADAPTOR CU-1 = +/- 2,000 LBS TOTAL OPERATING WEIGHT

SNOW LOADS:

GROUND SNOW LOAD, Pg = 30 PSF (EXPOSURE) Ce = 1.0 Ct = 1.0 (THERMAL) (IMPORTANCE) Is = 1.1 FLAT ROOF SNOW LOAD PF = Is * Pg = 23.1 PSF

WIND LOADS: **BASIC WIND SPEED:**

MWFRS WALL (INT. ZONE)

126 MPH **EXPOSURE ADJUSTMENT FACTOR:** Gcpi = ±0.18 INTERNAL PRESSURE COEFFICIENT:

2:12 RO	EXPOSURE B WIND LOADS	ADJ	POSUR USTME FFICIEI	NT	DESIGN WIND LOADS	
MWFRS WALL	(END ZONE)	28.36 PSF	X	1.0	=	28.36 PSF
MWFRS WALL	(INT. ZONE)	18.9 PSF	X	1.0	=	18.9 PSF
MWFRS ROOF	(END ZONÉ)	-11.78 PSF	X	1.0	=	-11.78 PSF
MWFRS ROOF	(INT. ZONE)	-6.82 PSF	X	1.0	=	-6.82 PSF
MWFRS ROOF	(UPLIFT)	-30.28 PSF	X	1.0	=	-30.28 PSF
COMPONENTS	(END WALL PRESSURE)	28.6 PSF	X	1.0	=	28.6 PSF
& CLADDING	(END WALL SUCTION)	-38.3 PSF	X	1.0	=	-38.3 PSF
	(INT. WALL PRESSURE)	28.6 PSF	X	1.0	=	28.6 PSF
	(INT. WALL SUCTION)	-31.04 PSF	X	1.0	=	-31.04 PSF
	(ROOF END ZONE PRESSURE) 21.34 PSF	X	1.0	=	21.34 PSF
	(ROOF END ZONE SUCTION)	-62.54 PSF	X	1.0	=	-62.54 PSF
	(ROOF INT. ZONE PRESSURE)	21.34 PSF	X	1.0	=	21.34 PSF
	(ROOF INT. ZONE SUCTION)	-35.86 PSF	X	1.0	=	-35.86 PSF
FLAT ROOF	CONDITION	EXPOSURE B WIND LOADS	ADJ	POSUR USTME FFICIEI	NT	DESIGN WIND LOADS

MWFRS ROOF	(INT. ZONE)	-7.72 PSF	X	1.0	=	-7.72 PSF
MWFRS ROOF	WFRS ROOF (UPLIFT)			1.0	=	-30.28 PS
COMPONENTS	(END WALL PRESSURE)	28.6 PSF	X	1.0	=	28.6 PSF
& CLADDING	(END WALL SUCTION)	-38.3 PSF	X	1.0	=	-38.3 PSF
	(INT. WALL PRESSURE)	28.6 PSF	X	1.0	=	28.6 PSF
	(INT. WALL SUCTION)	-31.0 PSF	X	1.0	=	-31.0 PSF
	(ROOF INT. ZONE PRESSURE)	11.6 PSF	X	1.0	=	11.6 PSF
	(ROOF INT. ZONE SUCTION)	-45.6 PSF	X	1.0	=	-45.6 PSF
6:12 ROO	F PITCH	EXPOSURE B WIND LOADS	AD.	(POSUR JUSTME EFFICIE	NT	DESIGN WIND LOAD
MWFRS WALL	(END ZONE)	31.6 PSF	X	1.0	=	31.6 PSF
MWFRS WALL	(INT. ZONE)	22.9 PSF	X	1.0	=	22.9 PSF
MWFRS ROOF	(END ZONÉ)	-5.1 PSF	X	1.0	=	-5.1 PSF
MWFRS ROOF	(INT. ZONE)	-5.2 PSF	X	1.0	=	-5.2 PSF
MWFRS ROOF	(UPLIFT)	-19.2 PSF	X	1.0	=	-19.2 PSF
	•	-19.2 PSF 25.5 PSF	X X	1.0 1.0	=	-19.2 PSF 25.5 PSF

(END WALL SUCTION)

(INT. WALL SUCTION)

(INT. WALL PRESSURE)

 $16.7 \, PSF \, x \, 1.0 = 16.7 \, PSF$

 $-27.6 \text{ PSF} \times 1.0 = -27.6 \text{ PSF}$

 $25.5 \, PSF \, x \, 1.0 = 25.5 \, PSF$

 $-34.1 \text{ PSF} \times 1.0 = -34.1 \text{ PSF}$

COMPONENT AND CLADDING VALUES LISTED ARE BASED ON 10 SQUARE FOOT "EFFECTIVE AREA" AS DEFINED BY ASCE 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. ALL ITEMS SPECIFIED TO BE DESIGNED BY OTHERS SHALL BE DESIGNED TO WITHSTAND COMPONENT AND CLADDING LOADS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE IN PLANS, SPECIFICATIONS, OR BY RFI RESPONSE. WIND LOADS MAY BE REDUCED BASED ON INCREASED "EFFECTIVE AREA" WHEN CALCULATIONS ARE SUBMITTED AND REVIEWED BY ENGINEER OF RECORD PRIOR TO FINAL DESIGN SUBMISSION. SUBMITTAL SHALL INCLUDE EFFECTIVE AREA ASSUMPTIONS FOR EACH COMPONENT AND WIND LOAD CALCULATIONS USING PARAMETERS SPECIFIED HEREIN.

(ROOF END ZONE PRESSURE) 19.0 PSF x 1.0 = 19.0 PSF

(ROOF END ZONE SUCTION) -63.2 PSF x 1.0 = -63.2 PSF

(ROOF INT. ZONE PRESSURE) 19.0 PSF \times 1.0 = 19.0 PSF

(ROOF INT. ZONE SUCTION) -47.1 PSF x 1.0 = -47.1 PSF

4. SEISMIC CRITERIA: SITE CLASS: D

& CLADDING

(IMPORTANCE) le = 1.25 Fa = 1.572 FV = 2.4Ss = 0.286%qS1 = 0.06%Sm1 = 0.145Sms = 0.449Sds = 0.299 Sd1 = 0.097 **SEISMIC DESIGN CATEGORY: B**

EQUIVALENT LATERAL FORCE PROCEDURE LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING R = 4.0 Cs = 0.0934SEISMIC BASE SHEAR, V = 67 K

SOIL BEARING CAPACITY: 2.0 TONS/S.F AS REFERENCED BY SUB-SURFACE SOILS INVESTIGATION PERFORMED BY CARLIN SIMPSON & ASSOCIATES (04.19.2024).

ANY BUILDING COMPONENTS NOTED AS DELEGATED DESIGN ITEMS IN DRAWINGS AND/OR SPECIFICATIONS SHALL BE DESIGNED IN ACCORDANCE WITH MINIMUM LOADS SPECIFIED ABOVE. ANY DEVIATION FROM NOTED LOAD VALUES SHALL BE SUBMITTED BY CONTRACTOR FOR REVIEW AND APPROVAL TO EOR PRIOR TO SUBMITTING SHOP DRAWINGS AND CALCULATIONS.

CONCRETE NOTES:

PROVIDE BATCH MIXING. TRANSPORTATION, PLACING, AND CURING OF CONCRETE IN ACCORDANCE WITH RECOMMENDATIONS OF ACI 301 AND ACI 318, LATEST EDITIONS. USE TYPE I PORTLAND CEMENT UNLESS NOTED OTHERWISE. PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED. REFER TO PROJECT SPECIFICATIONS FOR

ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) CONCRETE, U.O.N. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH (f'c) AS FOLLOWS: A. FOOTINGS, PIERS, AND FOUNDATION WALLS

B. SLABS-ON-GRADE ALL OTHER CONCRETE, U.O.N.

ALL CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50. ALL CONCRETE FOUNDATION ELEMENTS, WHICH CONSISTS OF FOOTINGS, PIERS, AND FOUNDATION WALLS, SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 6% +/- 1%.

PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING LABORATORY FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. CONCRETE MIXES SHALL INCLUDE ALL PROPOSED ADMIXTURES, AND WEIGHTS/VOLUMES OF ALL COMPONENT MATERIALS, INCLUDING SOURCE AND/OR MANUFACTURER PRODUCT INFORMATION. CONCRETE MIX DESIGNS SHALL BE PROVIDED FOR EACH TYPE OF CONCRETE REQUIRED ON PROJECT.

PROVIDE CONSTRUCTION AND CONTROL JOINTS AS REQUIRED BY ACI CODE AND AS INDICATED ON DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED BY STRUCTURAL ENGINEER. SUBMIT PLAN TO ENGINEER INDICATING PROPOSED CONTROL AND EXPANSION JOINT LOCATIONS IN CONCRETE SLABS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH ACI 305.1 AND ACI 305R FOR HOT-WEATHER CONCRETING. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH ACI 306.1 AND ACI 306R

FOR COLD-WEATHER CONCRETING. DO NOT PLACE CONCRETE AGAINST FROZEN SURFACES.

CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH, UNLESS NOTED OTHERWISE. WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE. PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY STRUCTURAL ENGINEER

FOR MECHANICAL OPENINGS THROUGH THE SLABS, WALLS AND FLOOR DECK. PROVIDE BROOM FINISH ON ALL SLABS. U.O.N. COORDINATE FINISH WITH ARCHITECTURAL AND/OR CIVIL DRAWINGS. FOR SIDEWALKS, PROVIDE FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.

GENERAL NOTES:

1. SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE DRAWINGS. WHERE SPECIFICATIONS ARE IN CONFLICT WITH THE GENERAL NOTES OR DRAWINGS, THE MORE RESTRICTIVE LIMITATION SHALL APPLY.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS OR SURVEY AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM THE **WORK PROPERLY.**

3. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCIES HAVE BEEN RECTIFIED, INCLUDING BUT NOT LIMITED TO FABRICATION OF MATERIALS. SUCH DISCREPANCIES BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS SHALL NOT BE THE REASONS FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK AND THE WORK SHALL BE PERFORMED AT NO EXTRA COST TO THE OWNER.

4. ALL CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO THE EXISTING CONDITIONS AND LIMITATIONS PRIOR TO SUBMITTING THEIR PROPOSAL/BID. FAILURE TO VISIT THE SITE AND NOT FAMILIARIZING THEMSELVES WITH THE CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AT NO ADDITIONAL

COST TO THE OWNER. 5. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF THE STRUCTURE AND WORKMEN DURING THE ENTIRE CONSTRUCTION PERIOD, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO: DESIGN AND INSTALLATION OF BRACING. SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR NEW OR EXISTING BUILDINGS, FORMS. AND SCAFFOLDING. SHORING OF RETAINING WALLS. AND OTHER

TEMPORARY SUPPORTS AS REQUIRED. CONTRACTOR SHALL SCHEDULE WORK IN CONSULTATION WITH THE OWNER AND IN SUCH A WAY AS TO MINIMIZE CONFLICT WITH THE OPERATION OF ANY **EXISTING BUILDINGS. FACILITIES. OR RIGHTS-OF-WAY.**

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND ANY OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE. IN CASE OF ANY DAMAGE TO THE CONSTRUCTION, THE CONTRACTOR SHALL

REPAIR THE SAME TO THE ENTIRE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DEMOLITION, ALTERATIONS REQUIRED, OR INTERFERENCES NOT SHOWN ON THE DEMOLITION DRAWINGS FOR RESOLUTION. THE CONTRACTOR SHALL ALLOW

MINIMUM SEVEN (7) WORKING DAYS FOR RESOLUTION OF THE CONDITION UNLESS ADDITIONAL TIME IS STATED TO BE REQUIRED BY THE ENGINEER. 10. TYPICAL DETAILS ON THE DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF CONFLICTS REGARDING

APPLICABILITY OF TYPICAL DETAILS. 11. DO NOT LOAD THE FINISHED SLAB-ON-GRADE WITH ERECTION EQUIPMENT. DO NOT STACK OR STORE CONSTRUCTION MATERIALS ON DECKS/SLABS. DO NOT

CAUSE IMPACT LOADS TO DECK/SLAB DURING CONSTRUCTION. 12. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CHASES. INSERTS. OPENING, SLEEVES, FINISHES, DEPRESSIONS, PADS, AND WALL OPENINGS PRIOR TO CONSTRUCTION.

13. PRINCIPAL OPENINGS THROUGH THE FRAMING AND SLABS ARE SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL REQUIRED OPENINGS AND PROVIDE FOR ALL REQUIRED OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWING OR NOT. VERIFY SIZE AND LOCATION OF OPENINGS WITH THE MECHANICAL CONTRACTOR. DEVIATIONS FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED PRIOR TO CONSTRUCTION/FABRICATION OF THE

LOADING FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS, ANY CHANGE IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT

15. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATION OF ALL SLAB DEPRESSIONS AND HOUSEKEEPING PADS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT AND/OR ENGINEER PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

COLD-FORMED STEEL NOTES

1. COLD-FORMED STEEL FRAMING SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED

STEEL STRUCTURAL MEMBERS", LATEST EDITION. ALL LIGHT GAUGE EXTERIOR STUD WALLS, BOX HEADERS, SHEAR WALL FLAT STRAPPING SYSTEMS, AND SILLS SHALL BE DESIGNED BY THE COLD FORMED STEEL FABRICATOR. THE FABRICATOR'S ENGINEER SHALL SUBMIT A FULL SET OF CALCULATIONS AFFIXED WITH A NEW YORK STATE P.E.'S SIGN & SEAL TO THE A/E OF RECORD TO REVIEW. DESIGN OF COLD-FORMED STEEL FRAMING SHALL INCLUDE CONSIDERATION FOR ALL APPLICABLE LOADS AS SHOWN ON SHEET S-001 AND SHALL BE IN CONFORMANCE WITH THE BUILDING CODE OF NEW YORK STATE. EXTERIOR CLADDING SYSTEMS AND ANCILLARY STRUCTURES INCLUDING CANOPIES SUPPORTED BY THE COLD FORMED STEEL SYSTEM SHALL BE CONSIDERED ACCORDINGLY. REFER TO SPECIFICATION SECTION 054000 FOR ADDITIONAL REQUIREMENTS

CONCRETE REINFORCING NOTES:

1. PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI 301, ACI 315, AND ACE 318, LATEST

2. PROVIDE NEW BILLET STEEL REINFORCING BARS IN ACCORDANCE WITH ASTM

A615, GRADE 60. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDS AND ANCHOR RODS. SET ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBEDDED ITEMS TO

FORMWORK OR REINFORCING 4. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS

REINFORCEMENT. PROVIDE STANDARD 90-DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL

UNLESS NOTED OTHERWISE: CONCRETE CAST AGAINST EARTH: 3 INCHES B. CONCRETE EXPOSED TO WEATHER:

NO. 6 AND LARGER: 2 INCHES NO. 5 AND SMALLER: 1 1/2 INCHES CONCRETE NOT EXPOSED TO WEATHER AND NOT IN CONTACT WITH THE

SLABS AND WALLS, NO. 11 AND SMALLER: 3/4 INCHES 6. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY

SHOWN OR APPROVED BY STRUCTURAL ENGINEER. WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN ACCORDANCE WITH ASTM A706, GRADE 60. USE LOW HYDROGEN ELECTRODES FOR WELDING OF REINFORCEMENT IN CONFORMANCE WITH "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL." AMERICAN WELDING SOCIETY.

WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MAIN REINFORCING, U.O.N.

COORDINATE PLACEMENT OF REINFORCING DOWELS TO MASONRY WALLS WITH MASONRY WALL CELL LOCATIONS.

10. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90-DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS.

EXCAVATION NOTES:

1. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT. WHERE STRUCTURAL CONTRACT DOCUMENTS CONFLICT WITH THE GEOTECHNICAL REPORT. THE MORE RESTRICTIVE LIMITATION SHALL APPLY. PROTECT ALL ABOVE AND BELOW GRADE UTILITIES WHICH ARE TO REMAIN.

PROTECT ALL PLANT LIFE, LAWNS, AND OTHER FEATURES REMAINING AS A PORTION OF THE FINAL LANDSCAPING. PROTECT BENCHMARKS, EXISTING STRUCTURES, FENCES, SIDEWALKS, ROADWAYS, FINISHED PAVING, AND CURBS FROM EXCAVATION EQUIPMENT

AND VEHICULAR TRAFFIC. GRADE TOP PERIMETER OF EXCAVATION TO PREVENT SURFACE WATER FROM DRAINING INTO EXCAVATION.

HAND TRIM EXCAVATION. REMOVE LOOSE MATTER. REMOVE LUMPED SUBSOIL, BOULDERS, AND ROCK.

UNSUITABLE BEARING MATERIAL, AS DEFINED IN THE PROJECT GEOTECHNICAL REPORT, IS TO BE REMOVED AND REPLACED WITH SUITABLE FILL PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. 9. NOTIFY ENGINEER OF UNEXPECTED SUBSURFACE CONDITIONS AND

DISCONTINUE WORK IN AFFECTED AREA UNTIL NOTIFIED TO RESUME WORK. 10. CORRECT UNAUTHORIZED EXCAVATION AT NO EXTRA COST TO OWNER IN

ACCORDANCE WITH BACKFILLING NOTES. 11. STOCKPILE EXCAVATED MATERIAL IN AREA DESIGNATED ON SITE AND REMOVE EXCESS MATERIAL NOT BEING REUSED FROM SITE. DO NOT STOCKPILE EXCAVATED MATERIAL WITHIN 10 FEET, OR A DISTANCE EQUAL TO THE DEPTH OF EXCAVATION, OF THE EDGE OF EXCAVATION.

12. PROTECT EXCAVATIONS BY METHODS REQUIRED TO PREVENT CAVE-IN OR LOOSE SOIL FROM FALLING INTO EXCAVATION.

13. VERIFY LOCATION OF EXISTING STRUCTURES AND UTILITIES PRIOR TO **EXCAVATION. CONTRACTOR SHALL ENSURE ALL SURROUNDING STRUCTURES** ARE PROTECTED FROM ALL EFFECTS OF EXCAVATION, INCLUDING BUT NOT LIMITED TO: SETTLEMENT, SLIDING, CAVE-IN, AND VIBRATION. 14. SLOPE SIDES OF EXCAVATIONS AT A MAXIMUM SLOPE OF 1.5H:1V. UNLESS

STEEPER SLOPE IS PERMITTED BY THE GEOTECHNICAL ENGINEER. 15. WHERE THE REQUIRED EXCAVATION SLOPE CANNOT BE PROVIDED, CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SUPPORT OF EXCAVATION (SOE) DESIGN FOR VERTICAL EXCAVATION. SUPPORT OF EXCAVATION DESIGN SHALL INCLUDE EXCAVATION PLAN, SECTIONS, AND NOTES, AND BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE

BACKFILLING NOTES:

STATE OF CONSTRUCTION.

BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT. WHERE STRUCTURAL CONTRACT DOCUMENTS CONFLICT WITH THE GEOTECHNICAL

REPORT, THE MORE RESTRICTIVE LIMITATION SHALL APPLY BACKFILLING SHALL BE DONE WITH SAND: NATURAL RIVER OR BANK SAND WASHED FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER. FILL SHALL BE GRADED IN ACCORDANCE WITH ANSI/ASTM C136 WITHIN THE FOLLOWING LIMITS, UNLESS DIRECTED OTHERWISE IN THE **GEOTECHNICAL REPORT:**

PERCENT PASSING: SIEVE SIZE: NO. 14 NO. 50 NO. 100 NO. 200

VERIFY EXISTING CONDITIONS AND SUBSTRATE ARE SUITABLE PRIOR TO VERIFY EXCAVATED MATERIALS TO BE REUSED AS FILL MATERIAL ARE

ACCEPTABLE PRIOR TO BACKFILLING. COMPACT SUBGRADE TO 95 PERCENT MAXIMUM DRY DENSITY IN ACCORDANCE

WITH ANSI/ASTMD1557 CUT OUT SOFT AREAS OF SUBGRADE NOT CAPABLE OF IN-SITU COMPACTION. BACKFILL AND COMPACT TO DENSITY EQUAL TO OR GREATER THAN REQUIREMENTS FOR SUBSEQUENT BACKFILL MATERIAL.

BACKFILL AREAS WITH UNFROZEN MATERIALS. SYSTEMATICALLY BACKFILL TO ALLOW MAXIMUM TIME FOR NATURAL SETTLEMENT, DO NOT BACKFILL OVER POROUS, WET, FROZEN OR SPONGY MATERIALS. REMOVE ANY STANDING WATER PRIOR TO BACKFILLING. PLACE AND COMPACT MATERIALS IN CONTINUOUS LAYERS NOT EXCEEDING 6

INCHES COMPACTED DENSITY 10. ALL BACKFILL MATERIALS SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DRY DENSITY IN ACCORDANCE WITH ANSI/ASTM D1557. MAINTAIN OPTIMUM

MOISTURE CONTENT TO ATTAIN REQUIRED DENSITY. 11. AT COMPLETION OF BASEMENT OR FOUNDATION WALL CONSTRUCTION, BACKFILL SHALL BE PLACED LEVEL WITH FINAL TOP OF WALL ELEVATION. IF FINAL GRADING, PAVING, LANDSCAPING AND/OR STORM DRAINAGE INSTALLATION ADJACENT TO THE WALL IS NOT PLACED IMMEDIATELY AFTER COMPLETION, TEMPORARY GRADING AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS NOT DIRECTED AT THE WALL OR ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTRUCTION ADJACENT

TO THE WALL IS COMPLETED. 12. DO NOT BACKFILL AGAINST BASEMENT WALL UNTIL FIRST FLOOR FRAMING IS INSTALLED. BASEMENT WALLS ARE TO BE ADEQUATELY BRACED AGAINST CONSTRUCTION ACTIVITIES UNTIL FIRST FLOOR FRAMING IS FULLY INSTALLED.

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON SUBSURFACE INVESTIGATION REPORT BY

CARLIN SIMPSON & ASSOCIATES DATED 4/19/2024.

PERTINENT REQUIREMENTS AND INFORMATION. IF THERE IS A CONFLICT

2. FOOTING DESIGN IS BASED ON 4,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE. REFER TO THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS FOR GENERAL REQUIREMENTS OF EARTHWORK, EXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING, AND OTHER

BETWEEN GEOTECHNICAL REPORT AND STRUCTURAL PLANS OR SPECIFICATIONS, THE MORE STRINGENT CRITERIA SHALL APPLY UNLESS OTHERWISE DIRECTED BY AN RFI. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION JOINT MATERIAL. LOWER CONTINUOUS FOOTINGS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE

FOOTING. LOWER FOOTING PARALLEL TO PIPE RUNS TO AVOID DISCHARGE ONTO ADJACENT TRENCH EXCAVATIONS. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO

PLACING CONCRETE. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE

WATER, FROST OR ICE. MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSURE SURFACE RUNOFF AWAY FROM STRUCTURES AND TO PREVENT PONDING OF

PRE-ENGINEERED TRUSS NOTES:

SURFACE RUNOFF NEAR THE STRUCTURES.

COLD FORMED STEEL ROOF TRUSSES SHALL BE DESIGNED AND FABRICATED BY A SHOP OR FABRICATOR SPECIALIZING IN THIS WORK, AND UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN NYS. DRAWINGS & CALCULATIONS SHALL BE SUBMITTED

AFFIXED WITH A LICENSED NYS PE SIGN & SEAL. TRUSSES SHALL BE DESIGNED AND MANUFACTURED IN CONFORMANCE WITH AISI & BCNYS. THE TRUSS DESIGN SHALL INCLUDE TRUSS FRAMING CONFIGURATION AS SHOWN INCLUDING TRUSS ANCHORAGE. BLOCKING. CURBING. MISC. FRAMING. AND ALL TEMPORARY AND

PERMANENT BRACING. 4. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER FOR THE DESIGN OF ALL PORTIONS AND COMPONENTS OF THE ROOF FRAMING EXCLUDED BY THE TRUSS SUPPLIER. A COMPLETE DESIGN PACKAGE SHALL BE SUBMITTED FOR REVIEW AND COMMENT BEFORE

TRUSSES SHALL BE ANCHORED TO TOP WALL PLATES, GIRDER TRUSSES, AND OTHER BEARING

BE SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE ORIGINAL TRUSS DESIGN,

AND SHALL BE SUBMITTED FOR REVIEW AND COMMENT BEFORE ANY REPAIRS ARE UNDERTAKEN.

A. CONTINUOUS HORIZONTAL LONGITUDINAL BRACING ALONG BOTTOM CHORDS AT 10FT O.C.

LONGITUDINAL CROSS BRACING ASSEMBLIES ALONG TRUSS WEBS AT 10FT O.C. MAX

FABRICATION BEGINS. TRUSSES SHALL BE MANUFACTURED. HANDLED. AND ERECTED IN A MANNER TO PRECLUDE **EXCESSIVE LATERAL BENDING STRESSES.**

SURFACES WITH APPROVED CONNECTIONS. FIELD CUTTING AND/OR MODIFICATION OF TRUSSES IS PROHIBITED. ANY AND ALL DAMAGED TRUSSES SHALL BE REPLACED WITH NEW TRUSSES OR SHALL BE REPAIRED ONLY BY DETAILS PREPARED BY THE TRUSS MANUFACTURER, REPAIR DETAILS SHALL

TEMPORARY BRACING IS THE FULL RESPONSIBILITY OF THE CONTRACTOR. 10. PERMANENT TRUSS BRACING SHALL BE DESIGNED BY THE TRUSS MANUFACTURER OR ANOTHER LICENSED PROFESSIONAL ENGINEER. THE DESIGN SHALL INDICATE MEMBER SIZES, PLACEMENT, AND CONNECTIONS. THE PACKAGE SHALL COMPLETELY DETAIL ALL COMPRESSION WEB BRACING, AS WELL AS MINIMUM PERMANENT BRACING CONSISTING OF:

W-BRACING ASSEMBLIES AT BOTTOM CHORDS LATERALLY ALONG LENGTH OF TRUSSES: W-DIAGONAL GABLE END BRACING AT 10FT O.C. MAX OVER THE WIDTH OF THE BUILDING.

LATERALLY, AND 20FT O.C. MAX LONGITUDINALLY. 11. REFER TO SPEC 054400 FOR MORE INFO.

SPECIAL INSPECTIONS: SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF THE ABOVE REFERENCED BUILDING CODE, CHAPTER 17. SPECIAL INSPECTOR(S) SHALL BE RETAINED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES AND QUALIFICATIONS OF THE PERSONS AND/OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE PROVIDED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS, REPORTS, AND CERTIFICATES REQUIRED BY THE JURISDICTION WHERE CONSTRUCTION OR WORK IS LOCATED.

1. THE SPECIAL INSPECTOR(S) SHALL

A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWINGS AND SPECIFICATIONS. B. FURNISH INSPECTION REPORTS TO ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE ATTENTION OF THE ENGINEER AND THE BUILDING DEPARTMENT.

C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE. 2. SPECIAL INSPECTION NOTES:

A. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS IS REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM THE WORK WITHOUT SPECIAL INSPECTION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. WHERE SPECIAL INSPECTION HAS BEEN EXEMPTED DURING FABRICATION, FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE IN LIEU OF THE INSPECTION, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL. C. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION UNTIL COMPLETION OF THE REQUIRED INSPECTIONS AND/OR

ENGINEER ACTING ON THE OWNER'S OR ENGINEER'S BEHALF MAY PERFORM STRUCTURAL OBSERVATIONS

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE

NOTICE, NO LESS THAN 72 HOURS, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL

3. STRUCTURAL OBSERVATION NOTES: A. WHERE REQUIRED BY THE BUILDING CODE OR BUILDING OFFICIAL. OR ELECTED BY THE OWNER OR ENGINEER OF RECORD, THE ENGINEER OF RECORD OR A DESIGNATED REGISTERED PROFESSIONAL

DURING CONSTRUCTION. B. STRUCTURAL OBSERVATIONS DO NOT INCLUDE, OR WAIVE THE RESPONSIBILITY FOR, THE PERFORMANCE OF SPECIAL INSPECTIONS AS REQUIRED HEREIN, OR FOR ANY OTHER INSPECTIONS AS REQUIRED BY THE

BUILDING CODE OR BUILDING OFFICIAL 4. SPECIAL INSPECTIONS AND TESTS OF ELEMENTS OF BUILDINGS AND STRUCTURES SHALL MEET THE APPLICABLE REQUIREMENTS LISTED BELOW.

A. STEEL CONSTRUCTION: a. STRUCTURAL STEEL:

 SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, LATEST EDITION.

b. COLD-FORMED STEEL DECK: • SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTOR(S) FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.

c. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION: SPECIAL INSPECTIONS OF WELDING OPERATIONS OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING

 SPECIAL INSPECTIONS OF SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WIND FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS ARE ALL REQUIRED.

d. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER: SPECIAL INSPECTOR SHALL VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.

B. CONCRETE CONSTRUCTION: a. SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED AS LISTED BELOW AND IN ACCORDANCE WITH BUILDING CODE TABLE 1705.3. EXCEPT AS ALLOWED PER THE EXEMPTIONS LISTED

b. PERIODIC INSPECTION OF REINFORCING STEEL AND PRESTRESSING TENDON MATERIAL AND PLACEMENT

c. PERIODIC INSPECTION OF REINFORCING STEEL WELDING, INCLUDING BAR MATERIAL AND WELDS AS REQUIRED. d. PERIODIC INSPECTION OF ANCHORS CAST IN FRESH CONCRETE.

IN BUILDING CODE SECTION 1705.3.

NECESSARY BY THE BUILDING OFFICIAL.

e. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE PER ACI 318, SECTION 17.8. f. PERIODIC VERIFICATION OF USE OF REQUIRED DESIGN MIX. g. FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND

DETERMINE TEMPERATURE OF THE FRESH CONCRETE PRIOR TO CONCRETE PLACEMENT. h. CONTINUOUS INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION

i. PERIODIC VERIFICATION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. INSPECT PRESTRESSED CONCRETE FOR APPLICATION OF PRESTRESSING FORCES AND GROUTING OF

k. PERIODIC INSPECTION OF ERECTION OF PRECAST CONCRETE MEMBERS. I. VERIFY IN-SITU CONCRETE STRENGTH: PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE, AND

PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.

m. PERIODIC INSPECTION OF FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. C. MASONRY CONSTRUCTION a. SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION, INCLUDING VERTICAL MASONRY FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE

EXEMPTED BY BUILDING CODE SECTION 1705.4 D. SOILS: a. SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH BUILDING CODE SECTION 1705.6

PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602, LATEST EDITIONS, EXCEPT AS SPECIFICALLY

AND TABLE 1705.6, INCLUDING: PERIODIC VERIFICATION THAT MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.

PERIODIC VERIFICATION THAT EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER BEARING MATERIAL PERIODIC CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. CONTINUOUS VERIFICATION OF USE OF PROPER FILL MATERIALS, FILL MATERIAL DENSITIES, AND LIFT

 PERIODIC INSPECTION OF SUBGRADE PREPARATION PRIOR TO PLACEMENT OF COMPACTED FILL. E. MAIN WIND-FORCE RESISTING SYSTEM: a. ELEMENTS OF THE MAIN WIND-FORCE RESISTING SYSTEM SHALL BE INSPECTED IN ACCORDANCE WITH **BUILDING CODE SECTION 1705.11**

THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.

F. MAIN SEISMIC-FORCE RESISTING SYSTEM: a. ELEMENTS OF THE MAIN SEISMIC-FORCE RESISTING SYSTEM SHALL BE INSPECTED IN ACCORDANCE WITH BUILDING CODE SECTIONS 1705.12 AND 1705.13. G. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ANY OTHER ELEMENTS NOT LISTED AS ABOVE AS DEEMED

SPEC	SPECIAL INSPECTION REQUIREMENTS					
REQ'D?	INSPECTION OR TEST	CODE REFERENCE SECTION	REFERENCE STANDARDS			
	STEEL - MATERIAL TEST REPORTS & CERTS.	1705.2	AISC 360			
	STEEL - WELDED CONNECTIONS	1705.2	AISC 360, AWS D1.1			
	STEEL - BOLTED CONNECTIONS	1705.2	AISC 360			
	STEEL - GALVANIZED MAIN MEMBERS	1705.2	AISC 360			
	STEEL - DETAILS	1705.2	AISC 360			
	STEEL - ANCHOR RODS & EMBEDMENT	1705.2	AISC 360, ACI 318			
	COLD-FORMED STEEL DECK	1705.2	SDI			
	OPEN-WEB STEEL JOISTS & JOIST GIRDERS	1705.2; TABLE 1705.2.3	SJI			
	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	1705.2.11.2	-			
	COLD-FORMED STEEL TRUSSES	1705.2	-			
	CONCRETE CONSTRUCTION	1705.3; TABLE 1705.3	ACI 318, AWS D1.4			
	MASONRY CONSTRUCTION: TYPE A	1705.4	TMS 402, TMS 602			
	MASONRY CONSTRUCTION: TYPE B	1705.4	TMS 402, TMS 602			
	MASONRY CONSTRUCTION: TYPE C	1705.4	TMS 402, TMS 602			
	WOOD - HIGH LOAD DIAPHRAGMS	1705.5	-			
	METAL-PLATE CONNECTED WOOD TRUSSES	1705.5	-			
	SOIL TESTING & INSPECTION	1705.6; TABLE 1705.6	-			
	DRIVEN DEEP FOUNDATIONS	1705.7; TABLE 1705.7	-			
	CAST-IN-PLACE DEEP FOUNDATIONS	1705.8; TABLE 1705.8	•			
	HELICAL PILE FOUNDATIONS	1705.9	•			
	WIND RESISTANCE - WOOD CONSTRUCTION	1705.11	•			
	WIND RESISTANCE - CFS CONSTRUCTION	1705.11	•			
	WIND RESISTANCE - COMPONENTS	1705.11	•			
	SEISMIC RESISTANCE - STRUCTURAL STEEL	1705.12; 1705.13	AISC 341			
	SEISMIC RESISTANCE - WOOD CONSTRUCTION	1705.12	-			
	SEISMIC RESISTANCE - CFS CONSTRUCTION	1705.12	-			
NOTE:						

SPECIAL INSPECTION REQUIREMENTS

1. THE ABOVE TABLE IS INTENDED TO SUMMARIZE THE REQUIRED STRUCTURAL SPECIAL INSPECTIONS AND ALERT THE OWNER

AND CONTRACTOR OF THEIR INCLUSION IN THE SCOPE. 2. THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ENGAGING THE SERVICES OF A QUALIFIED THIRD PARTY

SPECIAL INSPECTOR 3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR OF INTENDED WORK AND COORDINATING ACCESS FOR SPECIAL INSPECTIONS TO OCCUR BOTH ONSITE AND IN THE SHOP, AS REQUIRED

DANIEL J. AIELLO, P.E.

Harrison Central School District

Building Addition at the Purchase Elementary School



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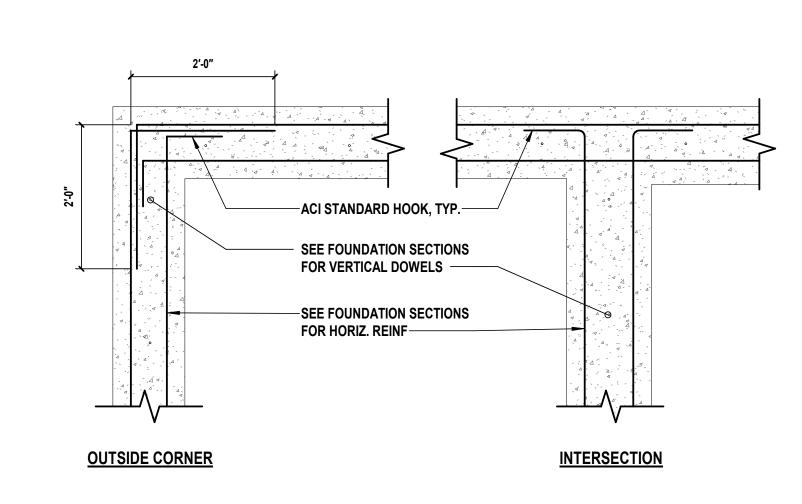
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GENERAL NOTES

2 Typical Step Footing Detail scale: N.T.S.

1. TOP REINFORCEMENT FOR RETAINING WALL/ COLUMN SUPPORT

FOOTINGS NOT SHOWN FOR CLARITY.

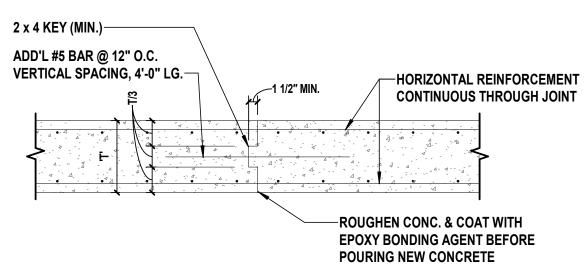


Typical Corner Horizontal Reinforcement at Foundation Wall or Footing

SCALENTS

HORIZONTAL REINFORCEMENT CONTINUOUS THROUGH JOINT

VERTICAL CONSTRUCTION JOINT IN CONTINUOUS FOOTING



VERTICAL CONSTRUCTION JOINT IN WALL

NOTE:

- 1. KEY WIDTH NOT TO EXCEED 1/3 WIDTH OF WALL IN GRADE BEAM. VERTICAL CONSTRUCTION JOINT PERMITTED IN WALL OR GRADE AT ANY POINT 4'-0" MIN. AWAY FROM FACE OF SUPPORTING PIER, BUTTRESS AND/OR WALL OPENING. PROVIDE ONE VERTICAL CONSTRUCTION JOINT FOR EVERY 40'-0" OF STRAIGHT RUN OF WALL.
- 2. SUBMIT CONSTRUCTION JOINT LAYOUT FOR ALL CONCRETE STRUCTURES FOR ENGINEER'S REVIEW
- Typical Construction Joint Details

 SCALENTS

LEGEND:

U.O.N. = UNLESS OTHERWISE NOTED

F# = FOOTING DESIGNATION

T.O.F. = TOP OF FOOTING - SEE SCHEDULE

T.O.W. = TOP OF WALL

FOUNDATION PLAN NOTES:

- 1. ELEVATIONS SHOWN THUS [] ARE RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"] (EQUIVALENT TO 314.25' ON CIVIL DRAWINGS).
- 2. ALL EXCAVATED EARTH SHALL BE REPLACED WITH CONTROLLED FILL AS INDICATED IN THE SPECIFICATIONS.
- 3. CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF ALL REQUIRED PIPING AND CONDUIT PENETRATIONS THROUGH FOUNDATION WALL WITH ALL OTHER CONTRACTS. PROVIDE PIPE SLEEVES AND REINFORCEMENT AROUND PENETRATIONS AS PER DETAIL 6 ON SHEET S-500.
- 4. REFER TO 'A' DWGS FOR WATERPROOFING REQUIREMENTS.
- 5. LOCATIONS OF EXISTING FOUNDATION WALL & FOOTING WHERE NEW ADDITION ABUTS ARE APPROXIMATE. PRIOR TO CONSTRUCTION OF NEW FOUNDATION, CONTRACTOR TO V.I.F. THESE EXISTING +/-FOUNDATION DIMENSIONS DEPICTED IN PLAN AND CONTACT E.O.R. IF CONDITIONS DIFFER.
- 6. NEW BOTTOM OF FOOTINGS ADJACENT TO EXISTING BUILDING TO MATCH EXISTING BOTTOM OF FOOTING DEPTHS. CONTRACTOR TO VERIFY DEPTH OF ADJACENT EXISTING FOOTINGS.
- 7. PROVIDE #5 DOWEL @ 16" O.C., 16" LG. EMBEDDED 6" INTO EXISTING FOUNDATION USING HILTI HIT-HY 200 ADHESIVE OR EQUAL.

FOOTIN	G SCHE	DULE
ECCTING TYPE	CIZE	THICKNESS

FOOTING TYPE	SIZE	THICKNESS	REINFORCEMENT	COMMENTS
F1.5	1'-6" x CONT.	12"	(2) #5 CONT. & #5 @ 12" O.C.	-
F3.0	3'-0" x CONT.	12"	(3) #5 CONT. & #5 @ 12" O.C.	-
F2.6 ECC	2'-7" x CONT.	20"	SEE DETAIL 3/S-500	ECCENTRIC

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DANIEL J. AIELLO, P.E.

NY PROFESSIONAL ENGINEER Lic. No. 100515

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MDH/JES JES DJA

JECT NO: DATE: SCALE:
HCSD2401H JANUARY 2025 AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



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SED No.: 66-05-01-06-0-001-027

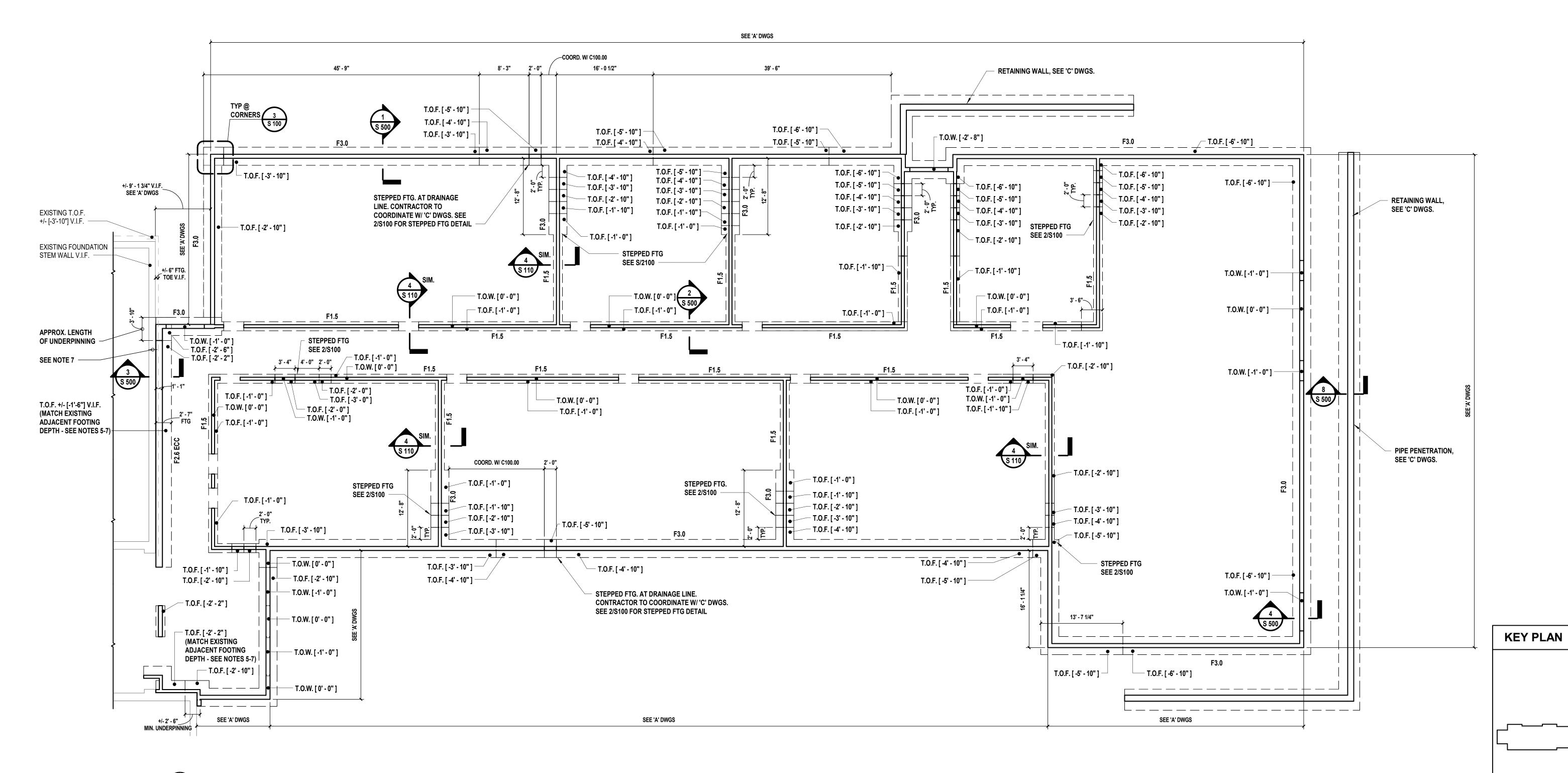
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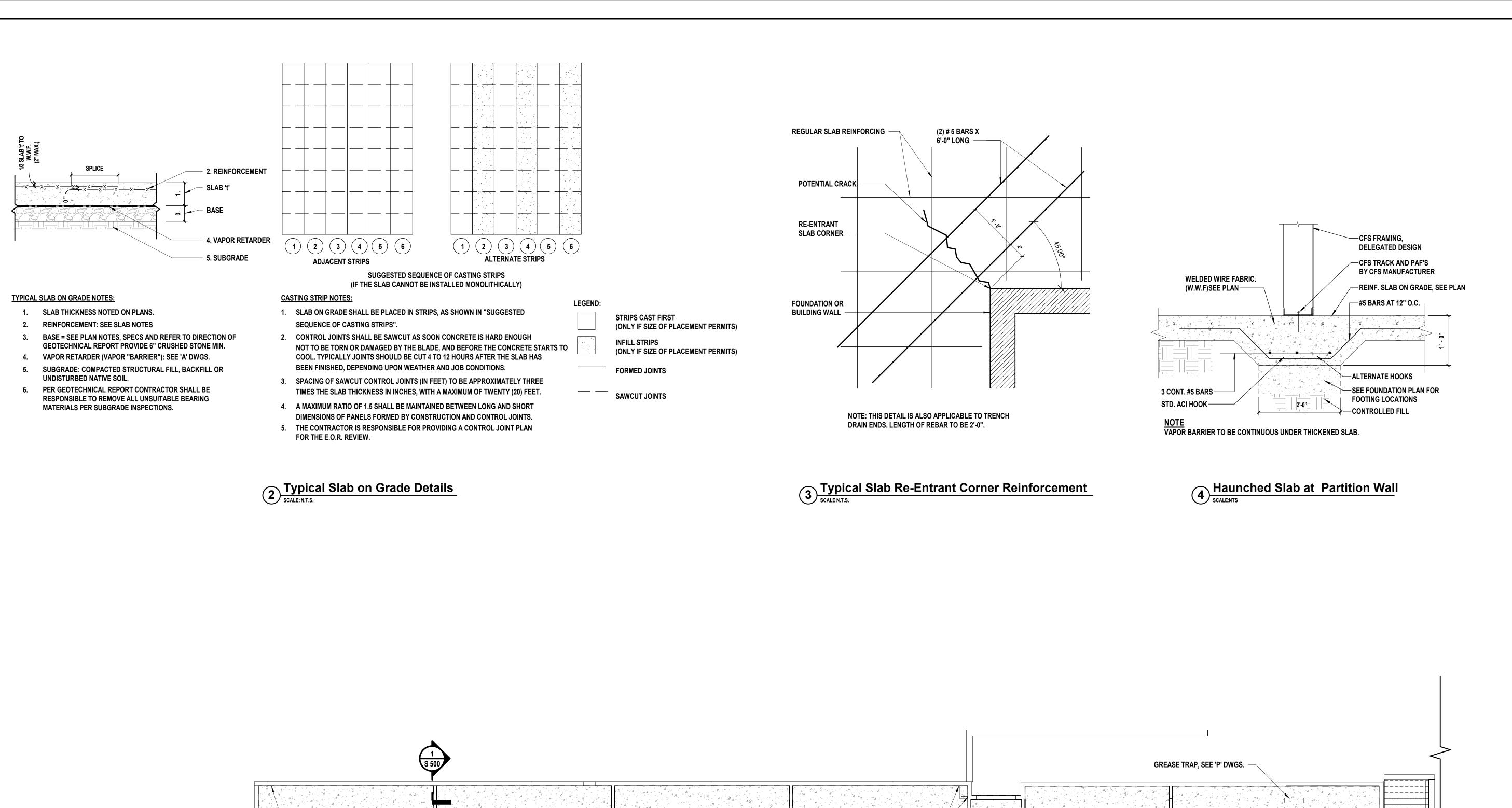
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EET TITLE

STRUCTURAL BUILDING FOUNDATION PLAN

S 100.00





HAUNCH SLAB @ INTERIOR CFS PARTITION WALLS, TYP.

S1, T.O.SI. [0' - 0"]

HAUNCH SLAB @ INTERIOR CFS PARTITION WALLS, TYP.

NEW CONCRETE SIDEWALK, SEE 'C' DWGS. FOR MORE INFO

SEE 'A' DWGS.

E.J. (TYP. @)
PERIMETER)

Slab Plan

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

E.J. (TYP. @ PERIMETER)

L.P. [-1' - 8"]-

SEE P' DWGS.



- 1. ELEVATIONS SHOWN THUS [] ARE RELATIVE TO FINISHED FIRST FLOOR ELEVATION [0'-0"] (EQUIVALENT TO ???.?' ON CIVIL DRAWINGS).
- 2. S1 INDICATES 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6 - W2.9xW2.9 W.W.F.

LEGEND:

C.J. = CONTROL JOINT

T.O.SI. = TOP OF SLAB

E.J. = 1/2" PREMOLDED EXPANSION JOINT

U.O.N. = UNLESS OTHERWISE NOTED

3. PROVIDE 1/2" PRE-MOLDED EXPANSION JOINT AROUND PERIMETER OF SLAB ON GRADE WHERE IT ABUTS THE FOUNDATION WALL OF THE BUILDING.

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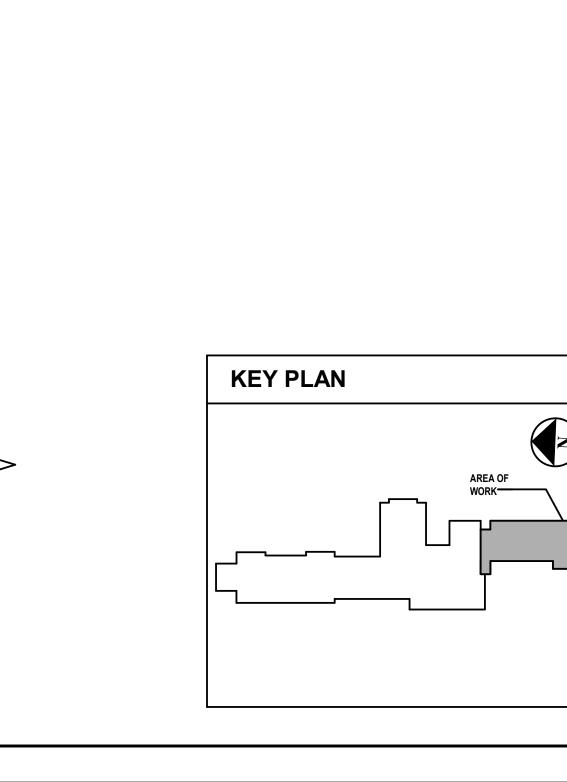
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STRUCTURAL **BUILDING SLAB PLAN**

S 110.00



1) PROVIDE STRAPPING TO BOTH FACES OF THE WALL IN EACH BRACE DIRECTION (NOT SHOWN FOR CLARITY). REFER TO DETAILS 8 & 10 ON SHEET S520.00 FOR ISOMETRIC VIEW. 2) TRUSS BLOCKING AND BRIDGING TO BE PROVIDED BY TRUSS MANUFACTURER (NOT SHOWN FOR CLARITY).

2 Typical Shear Wall Diagram
SCALE: 3/4" = 1'-0"

SHEAR WALL SCHEDULE STUD WALL BRACE MAX. LOAD (ASD) END POST MAX. LOAD (ASD) TOP SHEAR MAX. LOAD (ASD) HOLDOWN **CAST-IN ANCHORS** DESIGNATION "S/HDU11" HOLDOWN BY SIMPSON STRONG-TIE OR APPROVED EQUAL. FOLLOW 7/8" Ø F1554 GRADE 55KSI STUD ANCHOR W/ HEAVY HEX ± 14.5 KIP ± 11.0 KIP ± 5.0 KIP MANUFACTURER'S SPECIFICATIONS REGARDING QUANTITY AND SIZE OF STUD FASTENERS. NUT. EMBED ANCHOR 12" INTO FOUNDATION WALL "S/HDU11" HOLDOWN BY SIMPSON STRONG-TIE OR APPROVED EQUAL. FOLLOW 7/8" Ø F1554 GRADE 55KSI STUD ANCHOR W/ HEAVY HEX ± 14.5 KIP ± 10.0 KIP ± 5.0KIP MANUFACTURER'S SPECIFICATIONS REGARDING QUANTITY AND SIZE OF STUD FASTENERS. NUT. EMBED ANCHOR 12" INTO FOUNDATION WALL "S/HDU11" HOLDOWN BY SIMPSON STRONG-TIE OR APPROVED EQUAL. FOLLOW 7/8" Ø F1554 GRADE 55KSI STUD ANCHOR W/ HEAVY HEX ± 15.0 KIP ± 11.0 KIP ± 5.0 KIP MANUFACTURER'S SPECIFICATIONS REGARDING QUANTITY AND SIZE OF STUD FASTENERS. NUT. EMBED ANCHOR 12" INTO FOUNDATION WALL "S/HDU11" HOLDOWN BY SIMPSON STRONG-TIE OR APPROVED EQUAL. FOLLOW 7/8" Ø F1554 GRADE 55KSI STUD ANCHOR W/ HEAVY HEX ± 8.0 KIP ± 7.0 KIP ± 5.0 KIP MANUFACTURER'S SPECIFICATIONS REGARDING QUANTITY AND SIZE OF STUD FASTENERS. NUT. EMBED ANCHOR 12" INTO FOUNDATION WALL

17.0 KIP COMPR., 10K TENSION

± 14.5 KIP

NOTES:

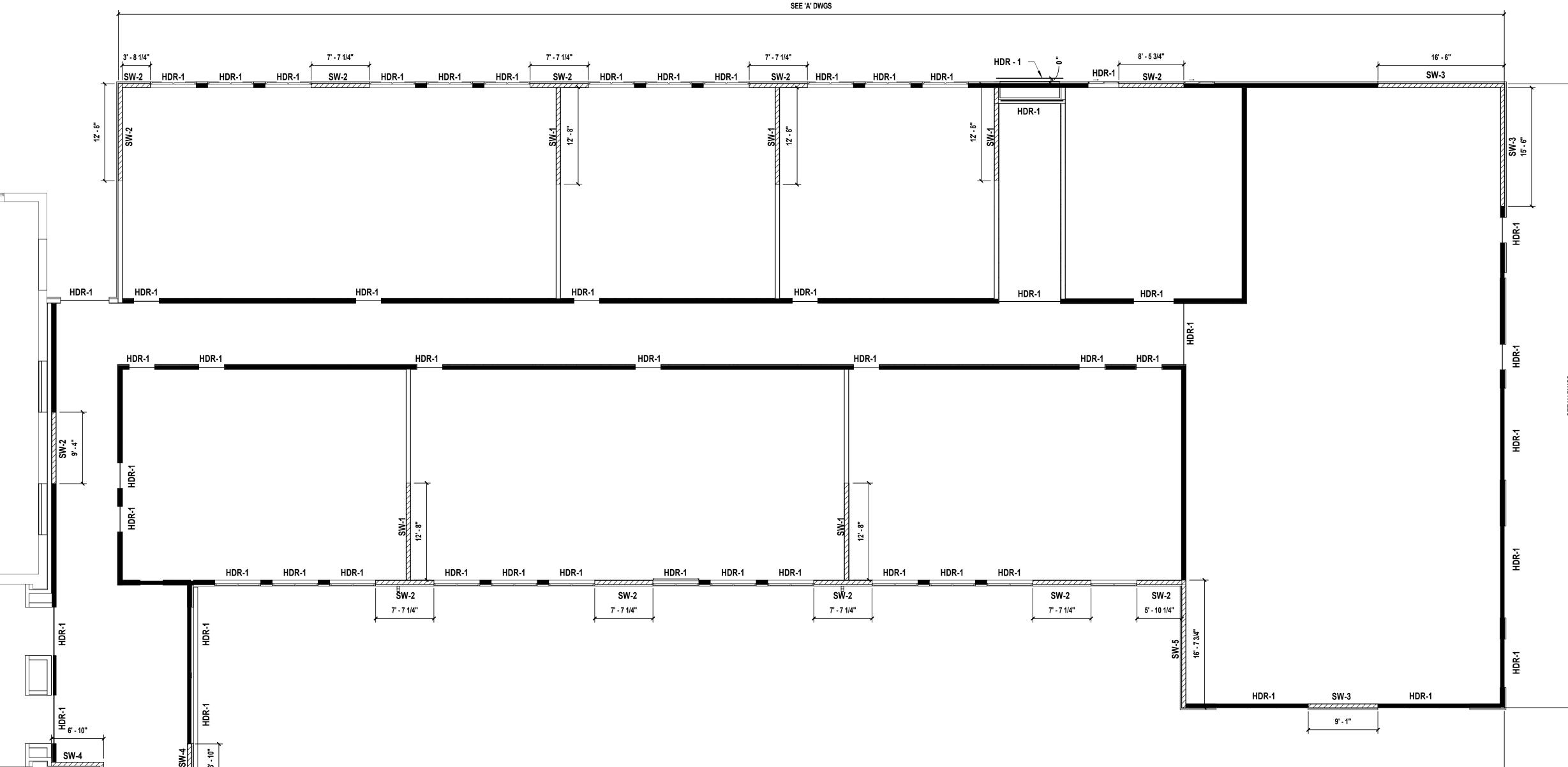
- SEE DETAIL 2/S120 FOR MINIMUM FLAT STRAP REQUIREMENTS.
- ALL LIGHT GAUGE SHEAR WALLS INCLUDING END POSTS, STRAPPING, TRACKS, AND CONNECTOR PLATES SHALL BE DESIGNED BY THE COLD-FORMED STEEL FABRICATOR. THE FABRICATOR'S ENGINEER SHALL SUBMIT A FULL SET OF CALCULATIONS AFFIXED WITH A NEW YORK P.E.'S SIGN & SEAL TO THE A/E OF RECORD TO REVIEW.

"S/HDU11" HOLDOWN BY SIMPSON STRONG-TIE OR APPROVED EQUAL. FOLLOW

MANUFACTURER'S SPECIFICATIONS REGARDING QUANTITY AND SIZE OF STUD FASTENERS.

HEADE	HEADER SCHEDULE				
HEADER DESIGNATION	UNIFORM DEAD LOAD UNFACTORED	UNIFORM LIVE LOAD UNFACTORED	UNIFORM SNOW LOAD UNFACTORED	OUT OF PLANE LOAD UNFACTORED	COMMENTS
HDR-1	SEE NOTE 4	SEE NOTE 4	SEE NOTE 4	C&C SEE DESIGN LOADS	-

- 1. HEADER DESIGNATION IS BASED ON LOAD GROUPING, REFER TO 'A' DWGS FOR LENGTH OF HEADER AND HEIGHTS OF CFS WALL ABOVE HEADER. UNIFORM LOADS SHOWN HEREIN ARE BASED ON ROOF TRIBUTARY LOADS.
- ALL HEADERS AND SUPPORT POSTS SHALL BE DESIGNED FOR OUT OF PLANE C&C WIND LOADS.
- SEE S-001 FOR DESIGN CRITERIA.



SEE 'A' DWGS

LEGEND:

7/8" Ø F1554 GRADE 55KSI STUD ANCHOR W/ HEAVY HEX

NUT. EMBED ANCHOR 12" INTO FOUNDATION WALL

± 5.0KIP

PROPOSED COLD-FORMED STEEL SHEAR WALL LOCATION

PROPOSED COLD-FORMED STEEL LOAD-BEARING WALL LOCATION

COLD-FORMED STEEL NOTES:

- 1. ALL LIGHT GAUGE STUD WALLS, BOX HEADERS, LATERAL SHEAR WALLS, COLLECTORS, AND SILLS SHALL BE DESIGNED BY THE COLD-FORMED STEEL FABRICATOR. THE FABRICATOR'S ENGINEER SHALL SUBMIT A FULL SET OF CALCULATIONS AFFIXED WITH A NEW YORK STATE P.E'S SIGN & SEAL TO THE A/E OF RECORD TO REVIEW. DESIGN OF COLD-FORMED STEEL FRAMING SHALL BE IN CONFORMANCE WITH THE BUILDING CODE OF NEW YORK STATE. EXTERIOR CLADDING SYSTEMS AND ANCILLARY STRUCTURES SUPPORTED BY THE COLD-FORMED STEEL SYSTEM SHALL BE CONSIDERED ACCORDINGLY. REFER TO COLD-FORMED STEEL SPECIFICATIONS AND SHEET S-001 FOR ADDITIONAL REQUIREMENTS.
- 2. FLOOR PLAN SHOWING SHEAR WALL & LOAD BEARING WALL ELEMENTS ONLY. REFRAMING COLD FORMED STEEL PARTITION WALLS NOT SHOWN ON PLAN FOR CLARITY PURPOSES
- 3. REFER TO 'A' DRAWINGS FOR WALL PACKAGES, ELEVATIONS, AND DIMENSIONS NOT INDICATED ON PLAN

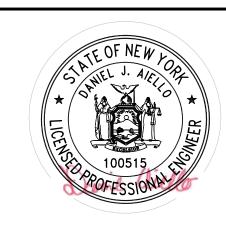
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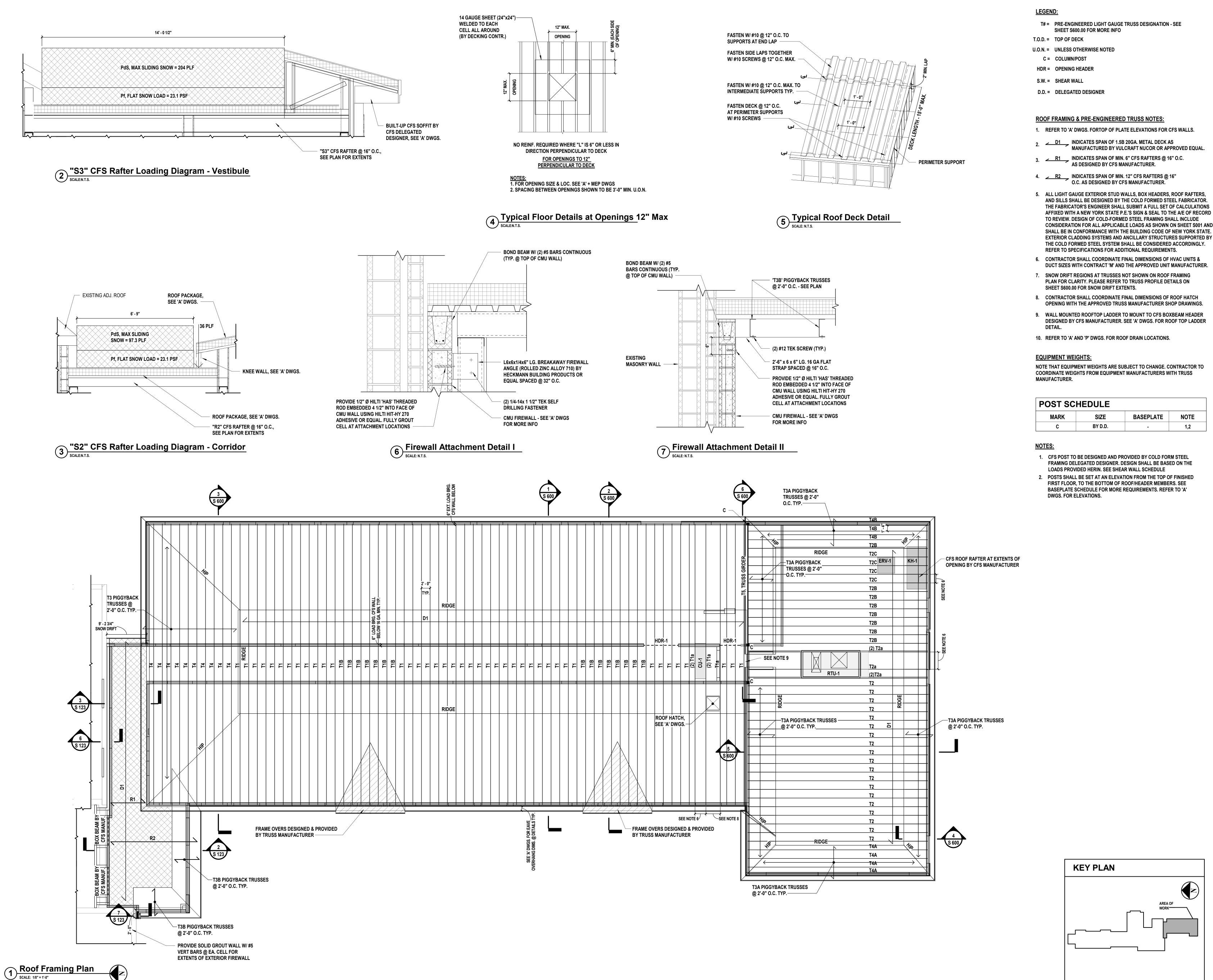
SHEAR WALL PLAN

S 120.00

Shear Wall Plan

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

KEY PLAN



T# = PRE-ENGINEERED LIGHT GAUGE TRUSS DESIGNATION - SEE SHEET S600.00 FOR MORE INFO

T.O.D. = TOP OF DECK

U.O.N. = UNLESS OTHERWISE NOTED

C = COLUMN/POST

HDR = OPENING HEADER

D.D. = DELEGATED DESIGNER

ROOF FRAMING & PRE-ENGINEERED TRUSS NOTES:

1. REFER TO 'A' DWGS. FORTOP OF PLATE ELEVATIONS FOR CFS WALLS.

2. D1 INDICATES SPAN OF 1.5B 20GA. METAL DECK AS MANUFACTURED BY VULCRAFT NUCOR OR APPROVED EQUAL. 3. R1 INDICATES SPAN OF MIN. 6" CFS RAFTERS @ 16" O.C. AS DESIGNED BY CFS MANUFACTURER.

5. ALL LIGHT GAUGE EXTERIOR STUD WALLS, BOX HEADERS, ROOF RAFTERS, AND SILLS SHALL BE DESIGNED BY THE COLD FORMED STEEL FABRICATOR. THE FABRICATOR'S ENGINEER SHALL SUBMIT A FULL SET OF CALCULATIONS AFFIXED WITH A NEW YORK STATE P.E.'S SIGN & SEAL TO THE A/E OF RECORD TO REVIEW. DESIGN OF COLD-FORMED STEEL FRAMING SHALL INCLUDE CONSIDERATION FOR ALL APPLICABLE LOADS AS SHOWN ON SHEET S001 AND

EXTERIOR CLADDING SYSTEMS AND ANCILLARY STRUCTURES SUPPORTED BY THE COLD FORMED STEEL SYSTEM SHALL BE CONSIDERED ACCORDINGLY. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7. SNOW DRIFT REGIONS AT TRUSSES NOT SHOWN ON ROOF FRAMING PLAN FOR CLARITY. PLEASE REFER TO TRUSS PROFILE DETAILS ON

8. CONTRACTOR SHALL COORDINATE FINAL DIMENSIONS OF ROOF HATCH OPENING WITH THE APPROVED TRUSS MANUFACTURER SHOP DRAWINGS.

9. WALL MOUNTED ROOFTOP LADDER TO MOUNT TO CFS BOXBEAM HEADER DESIGNED BY CFS MANUFACTURER. SEE 'A' DWGS. FOR ROOF TOP LADDER

10. REFER TO 'A' AND 'P' DWGS. FOR ROOF DRAIN LOCATIONS.

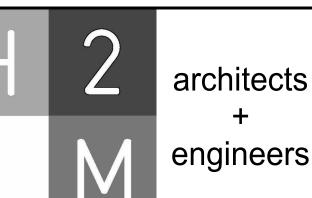
EQUIPMENT WEIGHTS:

NOTE THAT EQUIPMENT WEIGHTS ARE SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE WEIGHTS FROM EQUIPMENT MANUFACTURERS WITH TRUSS MANUFACTURER.

POST SCHEDULE			
MARK	SIZE	BASEPLATE	NOTE
С	BY D.D.	-	1,2

- 1. CFS POST TO BE DESIGNED AND PROVIDED BY COLD FORM STEEL FRAMING DELEGATED DESIGNER. DESIGN SHALL BE BASED ON THE LOADS PROVIDED HERIN. SEE SHEAR WALL SCHEDULE
- POSTS SHALL BE SET AT AN ELEVATION FROM THE TOP OF FINISHED FIRST FLOOR, TO THE BOTTOM OF ROOF/HEADER MEMBERS. SEE BASEPLATE SCHEDULE FOR MORE REQUIREMENTS. REFER TO 'A' DWGS. FOR ELEVATIONS.

KEY PLAN



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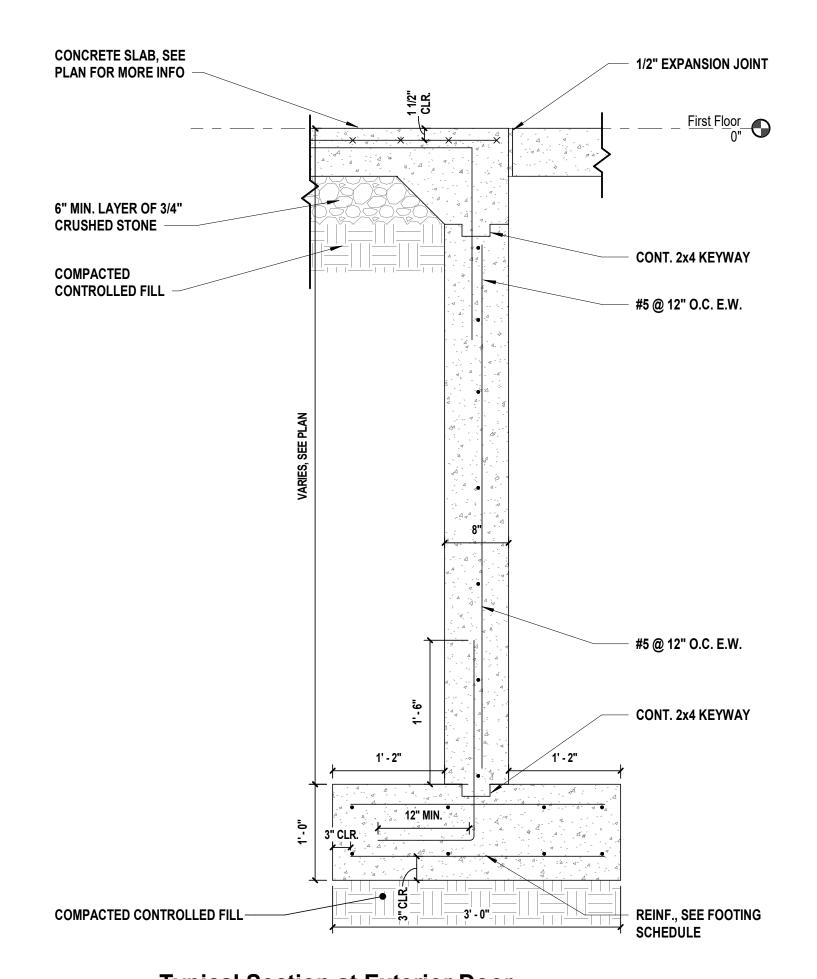
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STRUCTURAL BUILDING ROOF FRAMING PLAN

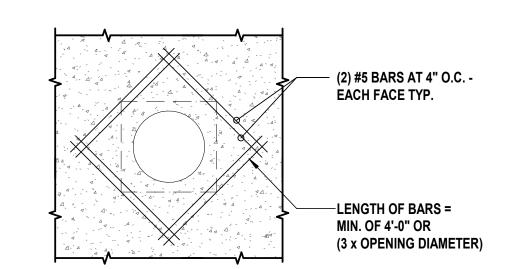
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1 Typical Exterior Foundation Wall Section SCALE: 1" = 1'-0"

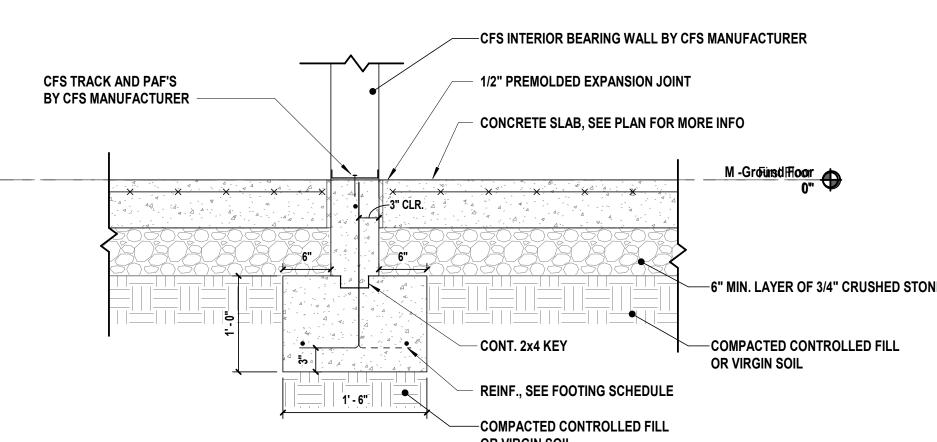


Typical Section at Exterior Door

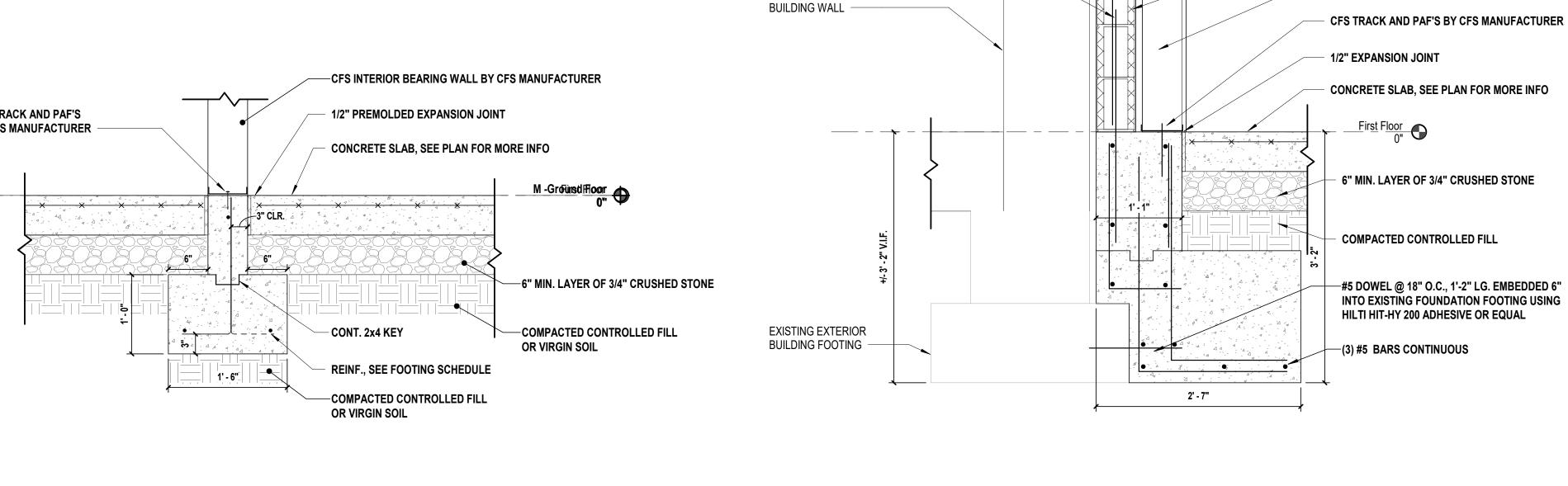
SCALE: 1" = 1'-0"



6 Typical Pipe Penetration at Wall or Slab



2 Typical Interior Foundation Wall Section
SCALE: 1" = 1'-0"

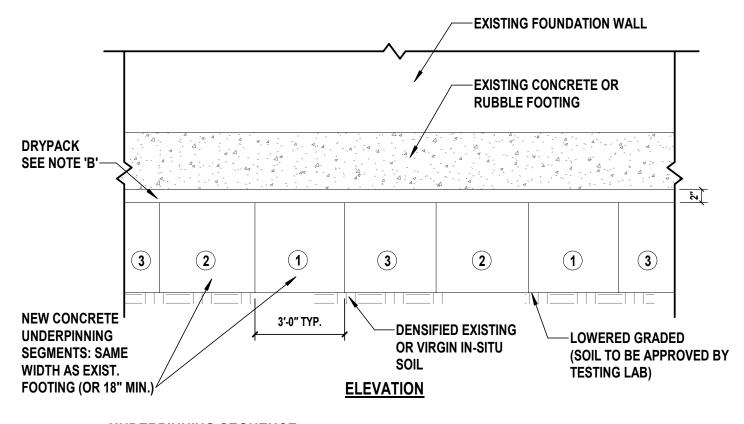


#5 VERTICAL BARS @ 48" O.C.

EXISTING EXTERIOR

Section at New Foundation Adjacent to Existing Foundation

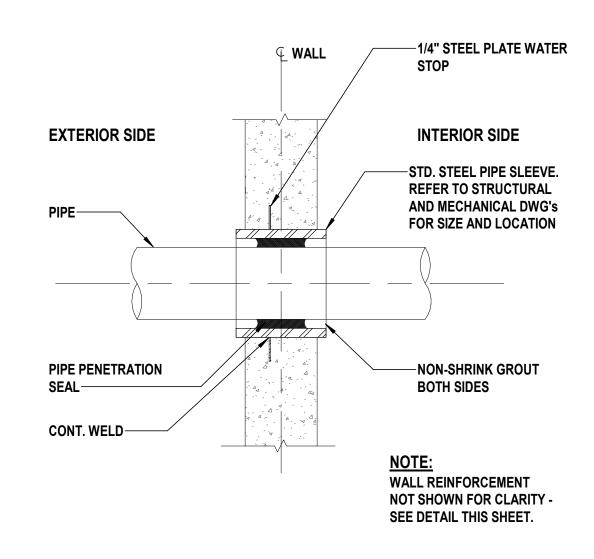
SCALE: 1" = 1'-0"



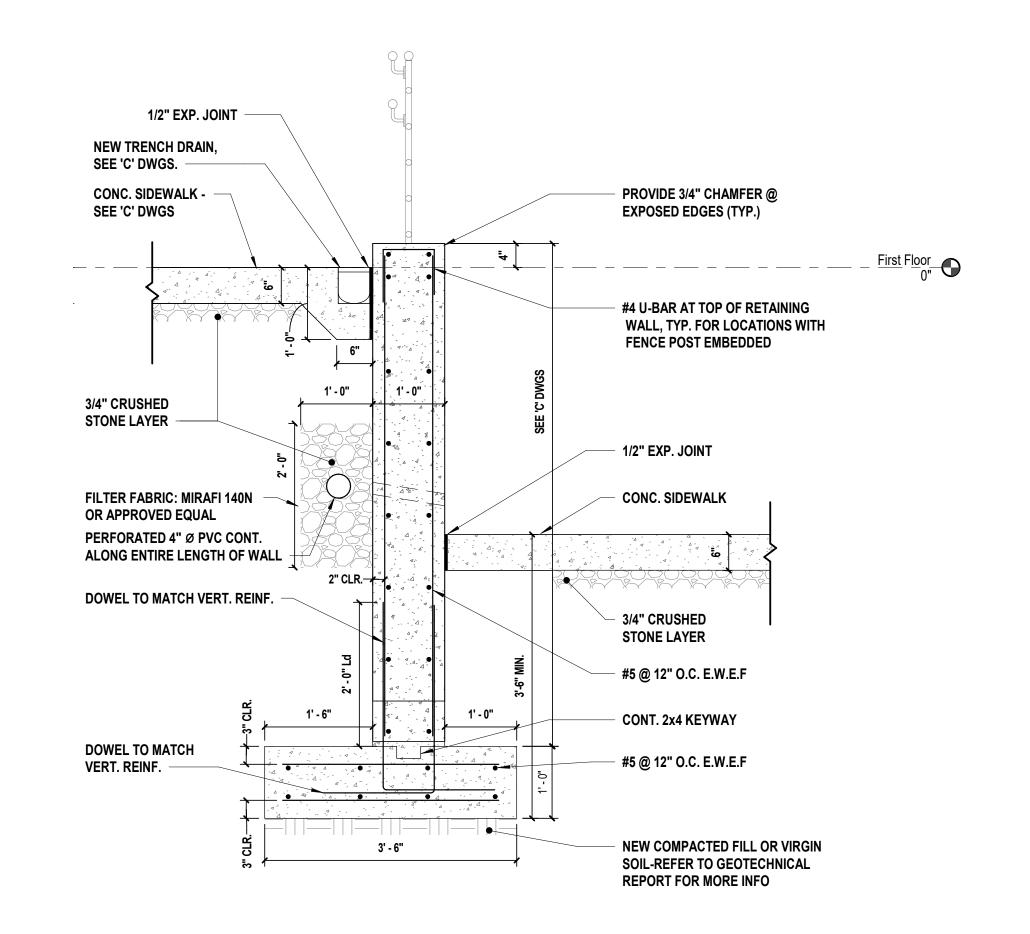
UNDERPINNING SEQUENCE: A. DIG 3'-0" WIDE PITS FOR SEGMENT SEQUENCE 1 WHILE SIMULTANEOUSLY PROVIDING SHEETING AND BRACING FOR THE SEGMENT ON BOTH SIDES OF THE EXCAVATION. PACK VOIDS BETWEEN LAGGING & SOIL WITH SOIL CEMENT. (LEAVE 6'-0" CLEAR BETWEEN PIT SEGMENTS OF SAME NUMBER B. POUR NEW CONCRETE UNDERPINNING FOR SEGMENT SEQUENCE 1.

- CONCRETE TO BE HIGH-EARLY CONCRETE HAVING A fc' = 7000 PSI. AFTER 3 DAYS INSTALL 2" DRYPACK (MIXTURE: 1 PART CEMENT TO 2 PARTS DAMP SAND, WITH A 0" SLUMP). RAM DRY PACK INTO SPACE BETWEEN TOP OF UNDERPINNING & BOTTOM OF EXIST. FOOTING TO C. SHEETING AND BRACING BETWEEN PIT SEGMENT SEQUENCES 1 AND 3 TO
- REMAIN. PROVIDE ADDITIONAL SHEETING AND BRACING BETWEEN SEGMENT SEQUENCE 2 & 3. D. DIG 3'-0" WIDE PIT FOR SEGMENT SEQUENCE 2 FOLLOWING ERECTION OF SHEETING AND BRACING.
- E. REPEAT COMPACTING AND DRYPACKING OPERATION SIMILAR TO SEGMENT **SEQUENCE 1.**

Typical Underpinning DetailSCALE: NTS



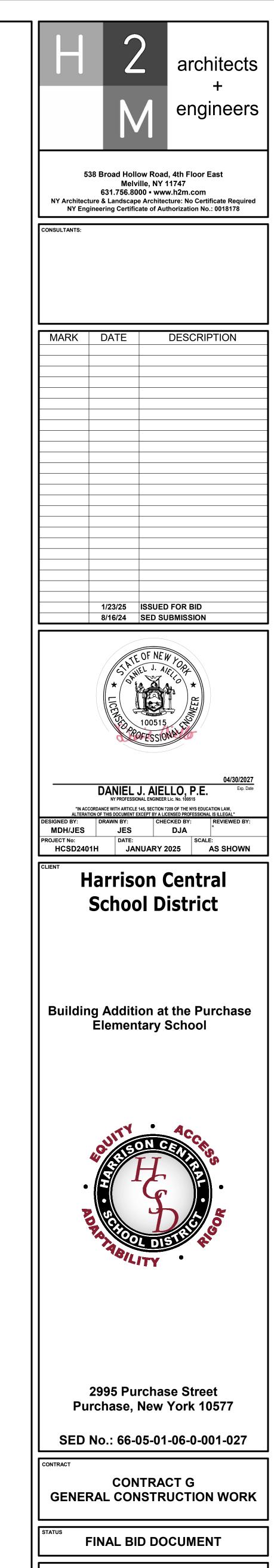
7 Pipe Penetration at Wall or Slab (Section)
SCALENTS



6" CMU FIREWALL, SEE 'A' DWGS.

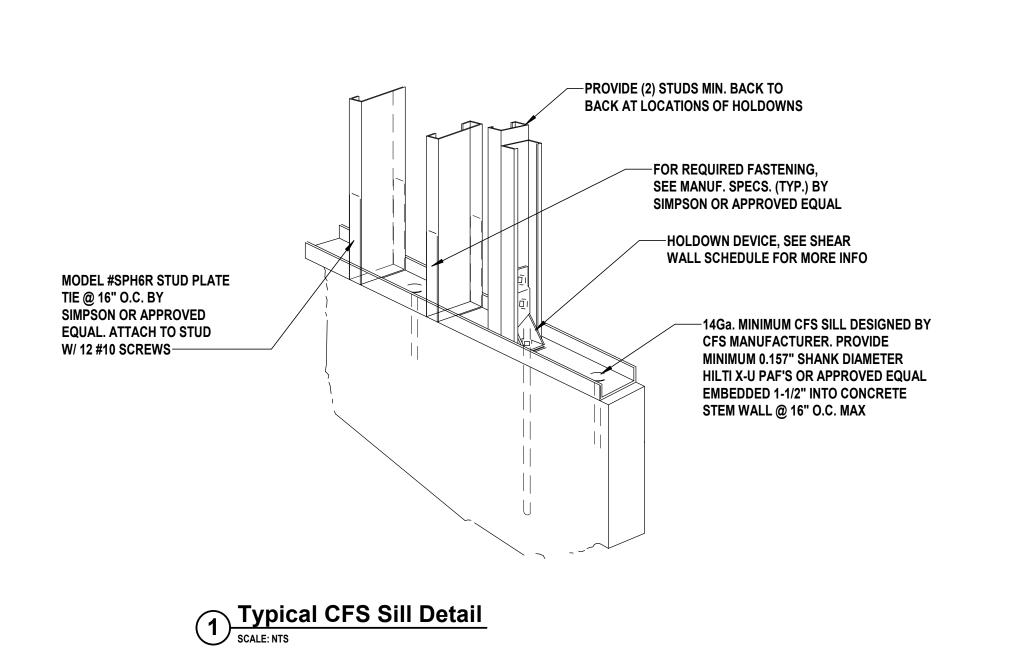
6" CFS WALL, SEE 'A' DWGS.

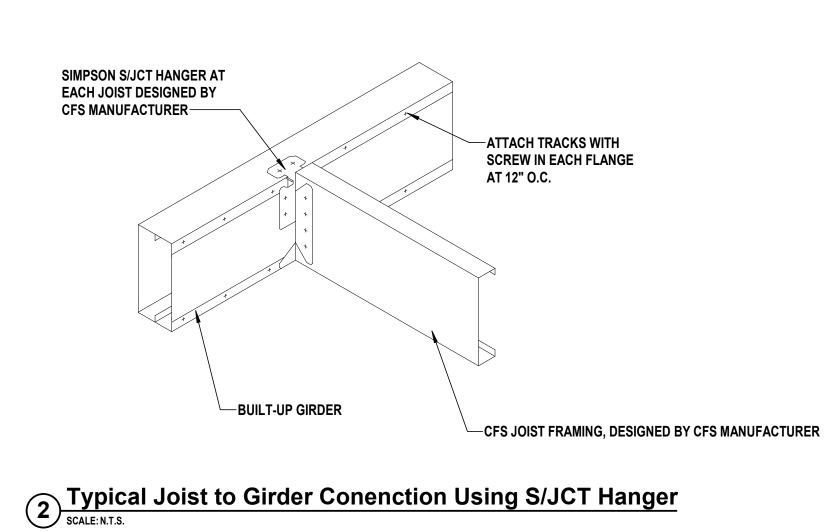
8 Exterior Retaining Wall Section
SCALE: 3/4" = 1'-0"

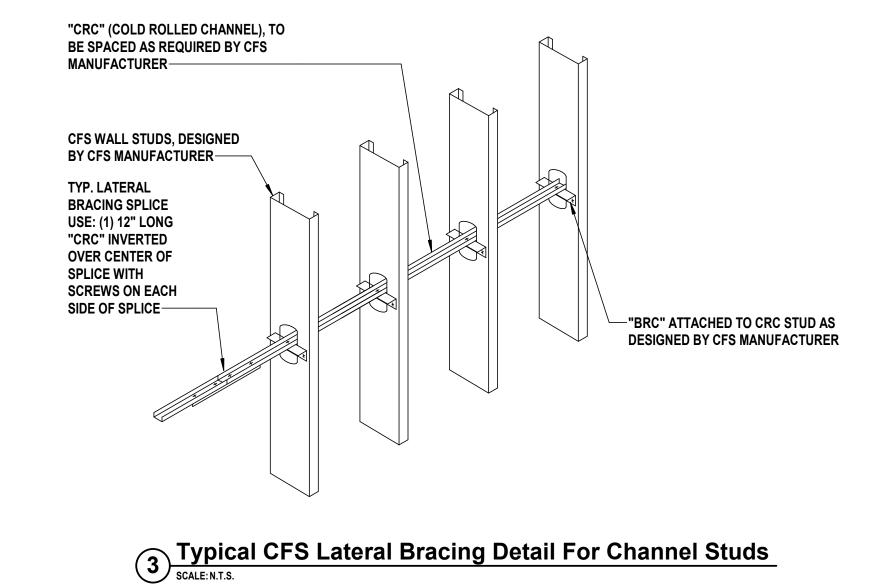


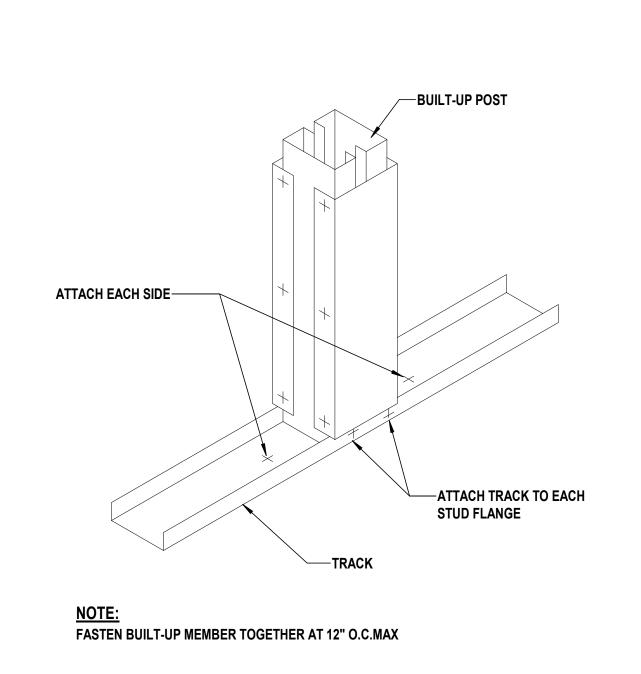
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STRUCTURAL **BUILDING FOUNDATION DETAILS**

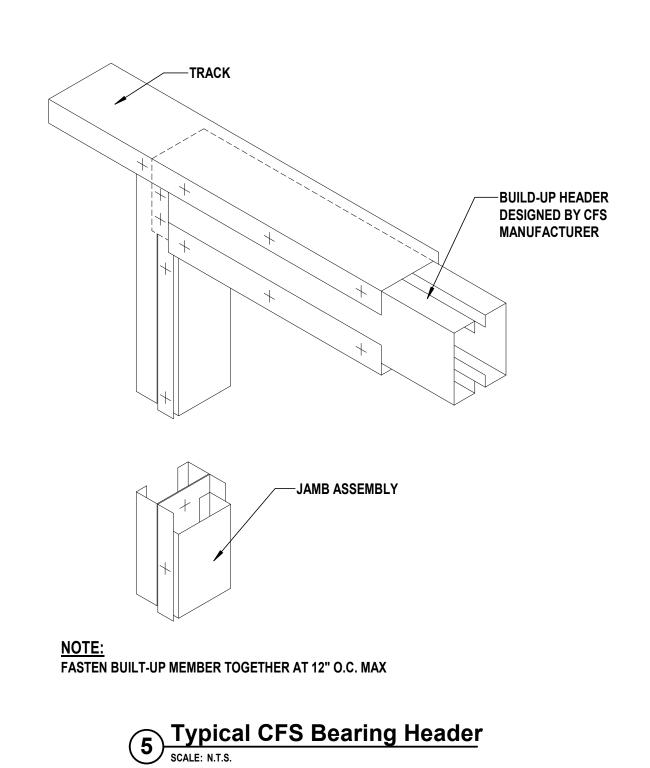


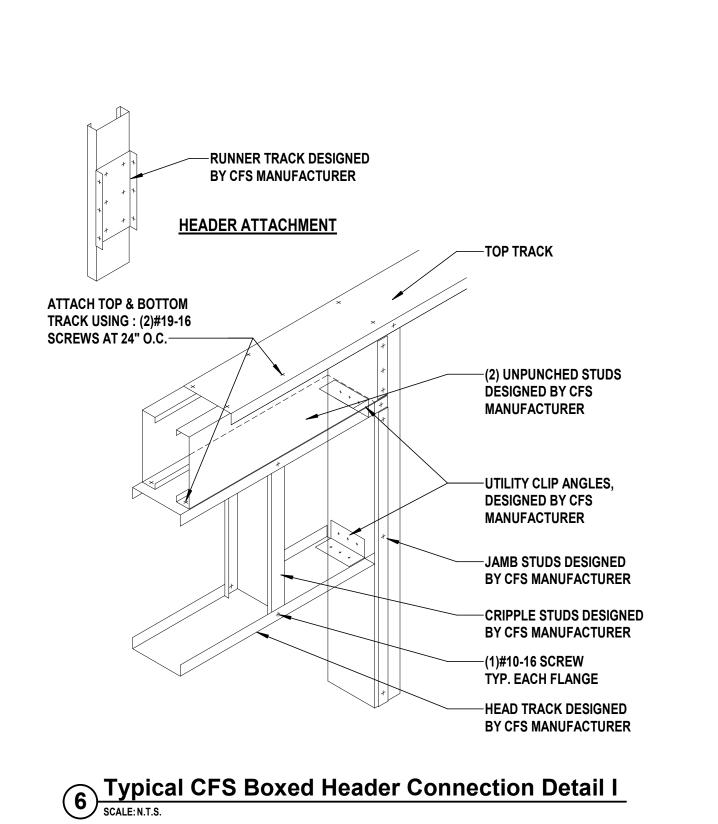


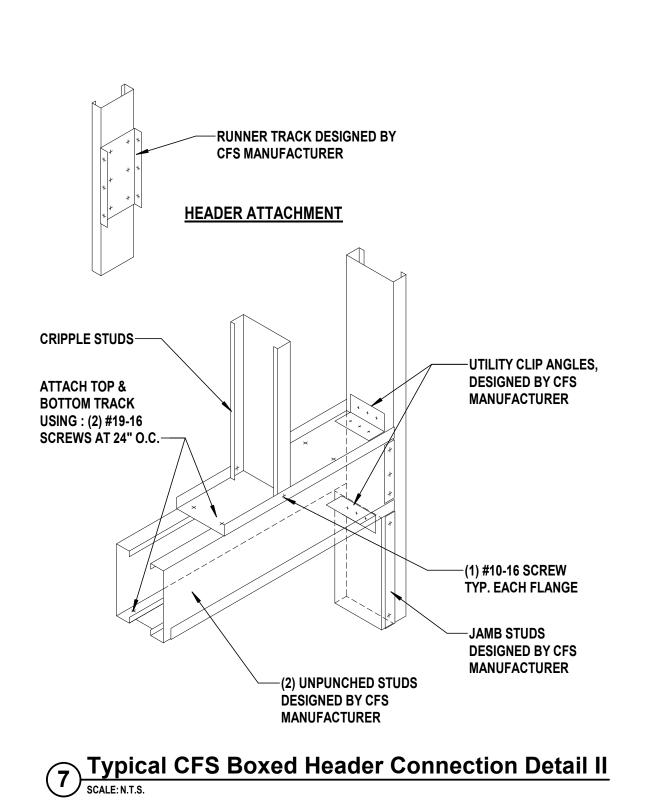


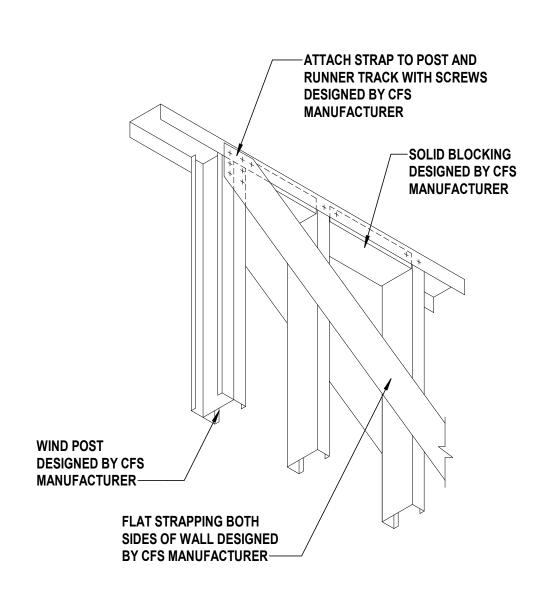


Typical CFS Built-Up Post
SCALE: N.T.S.

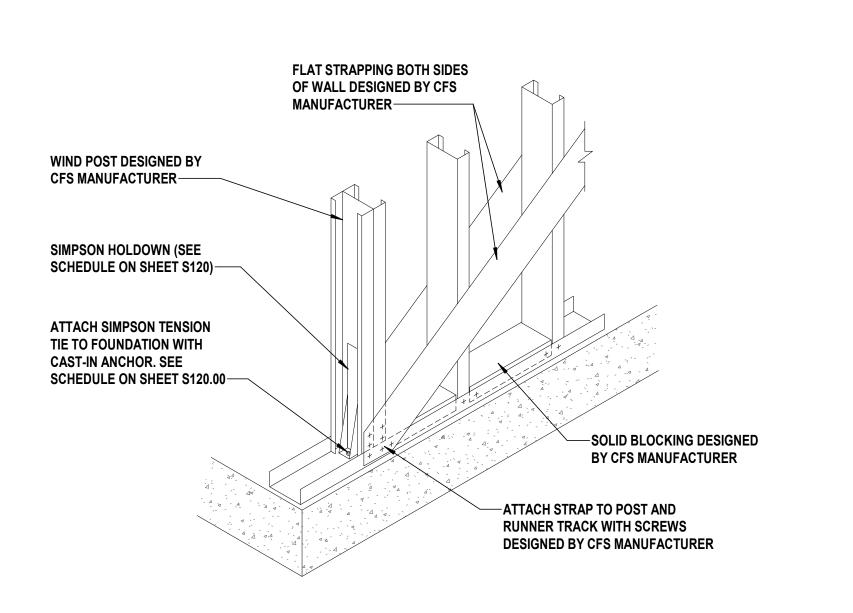




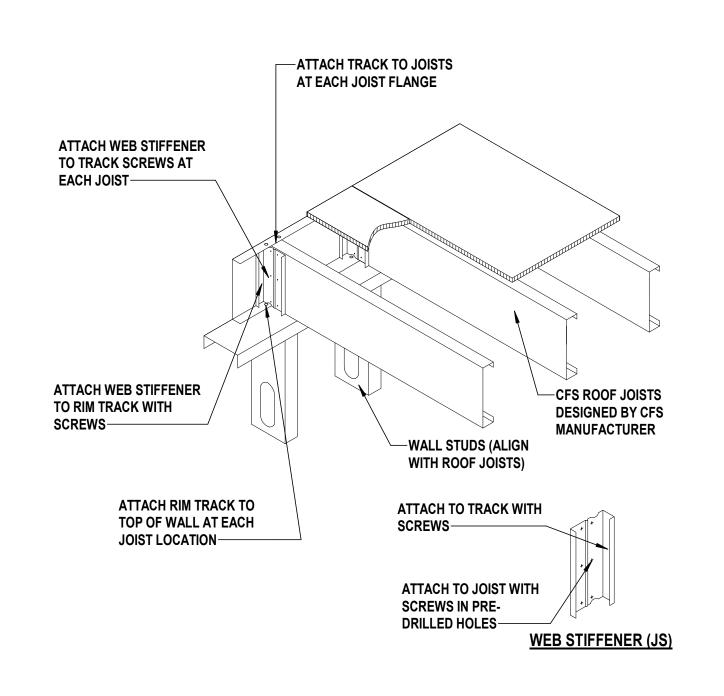




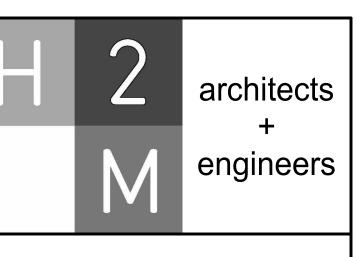




9 Typical Shear Wall Bracing Connection Detail II scale: N.T.S.



Joist Bearing on Stud Wall
SCALE: N.T.S.



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Harrison Central School District

JANUARY 2025 AS SHOWN

HCSD2401H

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

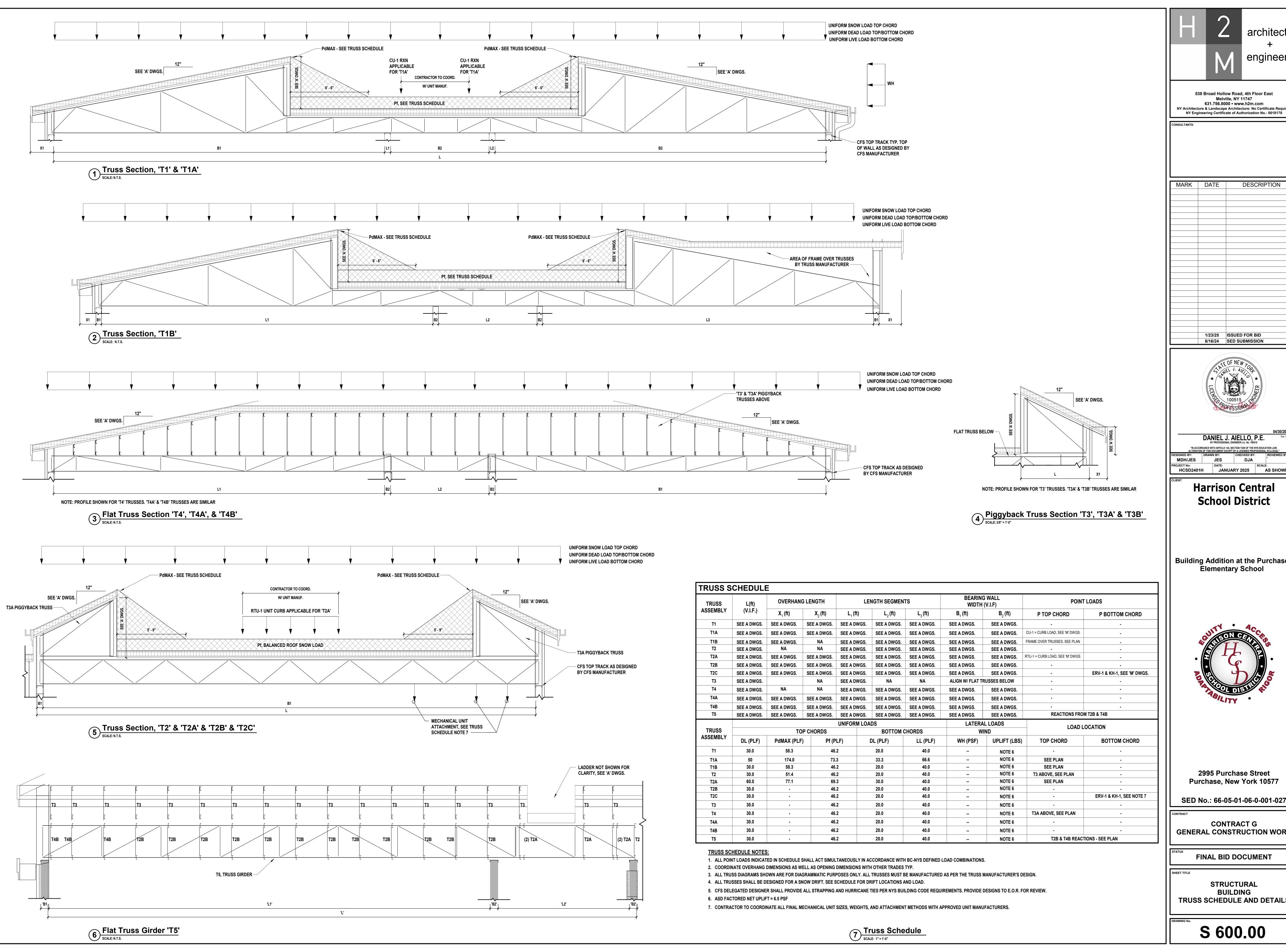
CONTRACT G
GENERAL CONSTRUCTION WORK

FINAL BID DOCUMENT

SHEET TITL

STRUCTURAL BUILDING CFS DETAILS

S 520.00



architects

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DANIEL J. AIELLO, P.E.
NY PROFESSIONAL ENGINEER LIC. NO. 100515 "IN ACCORDANCE WITH ARTICLE 145, SECTION 7209 OF THE NYS EDUCATION LAW, LTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGA DJA MDH/JES JES JANUARY 2025 AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

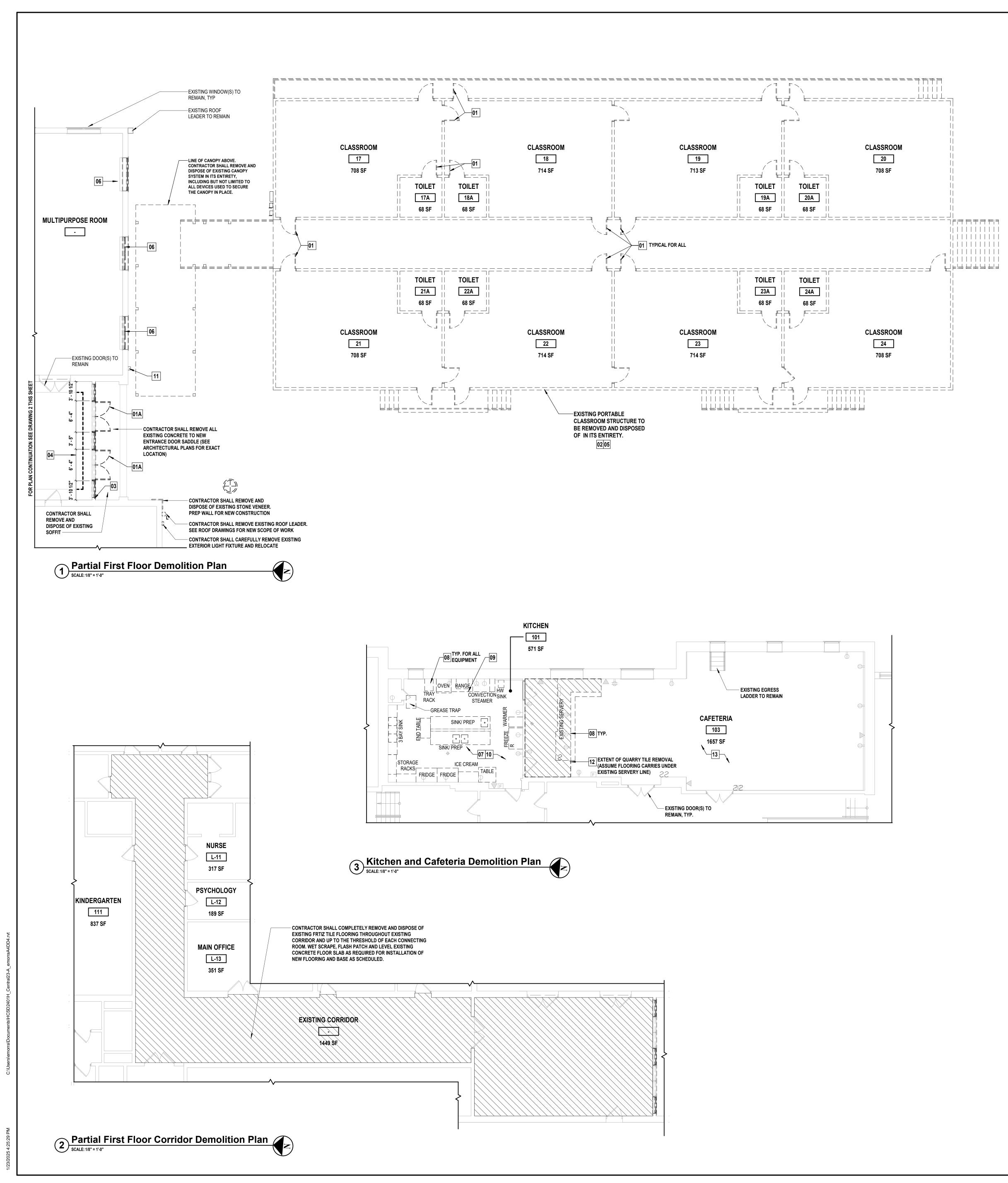
SED No.: 66-05-01-06-0-001-027

CONTRACT G GENERAL CONSTRUCTION WORK

FINAL BID DOCUMENT

STRUCTURAL BUILDING TRUSS SCHEDULE AND DETAILS

S 600.00



GENERAL DEMOLITION WORK NOTES (CONTRACT 'G' U.O.N)

- 1. DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL STATE EDUCATION DEPARTMENT STANDARDS, ALL N.Y.S. AND TOWN APPLICABLE BUILDING CODES AND LIFE AND SAFETY REGULATIONS.
- 2. ALL CONTRACTORS SHALL OBEY ALL CODES, STATUTES AND LAWS AS APPLICABLE TO DEMOLITION WORK IN AN OCCUPIED BUILDING AND FOR REMOVAL OF MATERIALS SAFELY FROM THE SITE, INCLUDING ALL OSHA REGULATIONS.
- 3. THE GENERAL CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE EXISTING BUILDING FROM DUST, WEATHER INCLEMENCY AND FREEZING TO PREVENT DAMAGE
- TO THE EXISTING STRUCTURE AND BUILDING CONTENTS.

 4. ALL CONTRACTORS SHALL DISPOSE OF ALL UNWANTED MATERIALS AND OTHER DEMOLITION DEBRIS OFF SITE IN ACCORDANCE WITH CONTRACT REQUIREMENTS
- AND ALL LAWS AND REGULATIONS.
- 5. ALL HOLES IN SLABS AND WALLS, INCLUDING FINAL PATCHING, ARE THE RESPONSIBILITY OF EACH CONTRACTOR FOR WHOM THE PENETRATIONS ARE REQUIRED, UNLESS OTHERWISE NOTED. HOLES THROUGH SLABS SHALL BE CORE DRILLED. WHERE CORE DRILLING IS NOT POSSIBLE, SLAB SHALL BE SAWCUT.
- 6. ALL DEMOLITION WORK SHALL BE PERFORMED BY CONTRACT 'G,' UNLESS OTHERWISE NOTED. CONTRACT 'G' SHALL DEMOLISH ALL EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO FLOOR, WALL & CEILING FINISHES AS INDICATED TO PROVIDE FINISHED CONSTRUCTION AS DESCRIBED IN THE CONTRACT DOCUMENTS, WHETHER OR NOT THE DEMOLITION IS SPECIFICALLY CALLED OUT. CONTRACT 'E' SHALL MAINTAIN AND REROUTE ALL CIRCUITS SCHEDULED TO REMAIN. CONTRACT 'P' SHALL MAINTAIN AND REROUTE ALL HYDRONIC LINES AND CONTROL CIRCUITS SCHEDULED TO REMAIN.
 - BUILDING DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS FOR QUANTITY TAKEOFFS AND FABRICATION OF MATERIALS.
 - OVER-DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES SHALL BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY, AND APPEARANCE OF THOSE WHICH WERE REMOVED IN CONFORMANCE WITH CONTRACT DOCUMENTS AND AT NO ADDITIONAL COST TO THE DISTRICT AND THAT ROOM PERIMETER WALLS REMAIN INTACT. GENERAL DEMOLITION NOTES (CONTRACT 'G' UNLESS OTHERWISE NOTED)
 - PATCH CONCRETE FLOOR SMOOTH, LEVEL AND FLUSH AT ALL REMOVED ELEMENTS, FIRE STOP ALL PENETRATIONS.
- 10. CONTRACT 'G' SHALL COORDINATE DEMOLITION WORK WITH ALL ARCHITECTURAL, HVAC, PLUMBING AND ELECTRICAL TRADES AND ROOM FINISH DRAWINGS.
- 11. REMOVE ALL EXISTING FINISHES SCHEDULED TO BE REMOVED PRIOR THE PROPER APPLICATION OF FINISHES TO A POINT WHERE WORKABLE SUBSTRATES OR

UNDAMAGED ADJACENT FINISHES ARE REACHED, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED GUIDELINES AND INSTRUCTIONS.

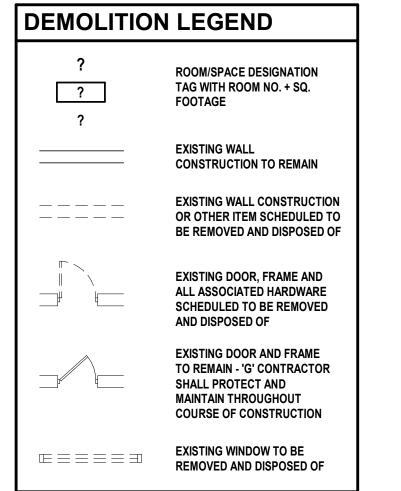
- 12. STORE ALL MATERIALS TO BE REUSED SAFELY ON SITE. TURN OVER ALL MATERIALS TO BE SAVED BUT NOT REUSED IN A LOCATION PREDETERMINED AND/OR AS DIRECTED BY THE DISTRICT.
- 13. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL UNWANTED MATERIALS AND OTHER DEMOLITION DEBRIS OFF SITE IN ACCORDANCE WITH CONTRACT REQUIREMENTS AND ALL APPLICABLE CODES, STATUES AND LAWS.
- . PROVIDE TEMPORARY SUPPORT DURING DEMOLITION AT ALL LOCATIONS WHERE EXISTING PARTITIONS AND STRUCTURE ARE TO BE REMOVED.
- 15. CONTRACTOR'S ACCESS SHALL BE AS INDICATED IN THE CONTRACT DOCUMENTS, SUBJECT TO THE ACCEPTANCE OF THE OWNER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN ALONG THE ACCESS ROUTE AND ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE EXISTING CONDITIONS AND/OR FINISHES AS DAMAGED DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 16. REFER TO SHEET NOS. M 001 FOR DEMOLITION AND REMOVAL WORK UNDER CONTRACT 'H'.
- 17. REFER TO SHEET NOS. P1.0, P1.1, P1.2, AND P1.3 FOR DEMOLITION AND REMOVAL WORK UNDER CONTRACT 'P'.
- 18. REFER TO SHEET NOS. ED1.0 AND ED1.1 FOR DEMOLITION AND REMOVAL WORK UNDER CONTRACT 'E'

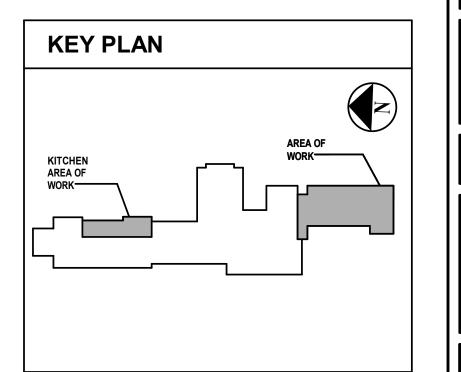
KEYED DEMOLITION WORK NOTES (CONTRACT 'G' U.O.N)

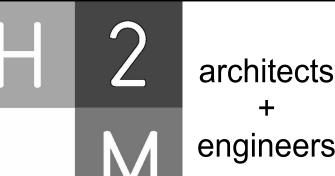
- CONTRACTOR 'G' SHALL REMOVE AND DISPOSE OF EXISTING DOOR(S), TRANSOMS, AND FRAMES AS INDICATED, INCLUDING ALL ASSOCIATED HARDWARE AND ACCESSORIES PREPARE OPENING FOR NEW WORK AS SCHEDULED.
- 1A EXTERIOR DOOR AND FRAME SYSTEM SHALL BE REMOVED AND DISPOSED OF
- CONTRACTOR SHALL COORDINATE REMOVAL OF SECURITY DEVICES, SPEAKERS, FIRE ALARMS, AND LIGHTING WITH CONTRACT 'E'. ALL DEVICES SHALL BE SECURE IN LOCATION FOR REINSTALLATION. SEE 'E' DRAWINGS.
- THE 'G' CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING CMU WALL. PATCH AND REPAIR SLAB AS REQUIRED TO PROVIDE CONTINUOUS SLAB SURFACE, FINISH AS SCHEDULED.
- CONTRACTOR SHALL CAREFULLY REMOVE AND DISPOSE OF EXISTING WINDOW WALL SYSTEM. REMOVALS SHALL INCLUDE THE WINDOWS, INSULATED METAL PANEL TRANSOMS, FRAMES, BLOCKING AND FASTENERS. EXISTING STRUCTURAL LINTELS AND COLUMNS TO REMAIN.
- PLUMBING CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED DEVICES USED TO SECURE THE FIXTURES IN PLACE. ALL PIPING TO BE REMOVED AND CAPPED OFF BELOW FINISHED SURFACE.
- CONTRACTOR SHALL CAREFULLY REMOVE AND DISPOSE OF EXISTING WINDOW SYSTEM. REMOVALS SHALL INCLUDE THE WINDOWS, FRAMES, BLOCKING AND FASTENERS. EXISTING STRUCTURAL LINTEL TO REMAIN.
- UPON REMOVAL/RELOCATION OF DESIGNATED KITCHEN EQUIPMENT, THE 'E' CONTRACTOR SHALL COMPELTELY REMOVE AND DISPOSE OF OBSOLETE ELECTRICAL DEVICES INCLUDING RECEPTACLES, JUNCTION BOXES, CONDUIT AND WALL WIRING BACK TO ITS ASSOCIATED POWER SOURCE. REFER TO
- ELECTRICAL DRAWINGS FOR ADDITIOANL INFORMATION
- ALL EXISTING KITCHEN EQUIPMENT (U.O.N.) SHALL BE CAREFULLY REMOVED, PROTECTED, AND REINSTALLED IN THE NEW CAFETERIA ADDITION. COORDINATE ALL DEMOLITION WORK WITH CONTRACT 'P', 'H', AND 'E' FOR FULL EXTENT OF WORK. (TYP. FOR ENTIRE KITCHEN AND CAFETERIA)
- CONTRACTOR SHALL COORDINATE WITH CONTRACT 'H' FOR THE REMOVAL/REINSTALLATION OF EXISTING KITCHEN HOOD AND EXHAUST FAN.'G' CONTRACTOR SHALL REPAIR THE ROOF OPENING TO MATCH EXISTING CONSTRUCTION. PATCH AND RESTORE CEILING FINISHES, AND CAP OLD DUCTWORK PENETRATION AS
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR FLOOR, WALLS, AND CEILING IN ALL LOCATIONS THAT ARE DIRECTLY IMPACTED BY THE RELOCATION AND/OR REMOVAL OF EQUIPMENT AS INDICATED ON THE CONTRACT DOCUMENTS. SEE 'P', 'H', AND 'E' DRAWINGS FOR ADDITIONAL INFORMATION.
- 11 CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING ROOF LEADER.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING QUARRY TILE LOCATED WITHIN THE EXISTING CAFETERIA. PREPARE EXISTING SLAB FOR INSTALLATION OF NEW FLOORING AND BASE AS SCHEDULED FOR A SMOOTH AND LEVEL FINISH. CONTRACTOR SHALL INSPECT FLOOR WITH ARCHITECT/OWNER PRIOR TO INSTALLATION OF NEW FLOOR AND APPLY WATERPROOFING AS REQUIRED.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING VINYL COMPOSITE TILE (VCT) FLOORING AND WALL BASE THROUGHOUT. WET SCRAPE, FLASH PATCH AND LEVEL EXISTING CONCRETE FLOOR SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOORING AND BASE AS SCHEDULED. CONTRACTOR SHALL INSPECT FLOOR WITH ARCHITECT/OWNER PRIOR TO INSTALLATION OF NEW FLOOR AND APPLY WATERPROOFING AS REQUIRED.

KEYED DEMO. REFLECTED CLG. NOTES (CONTRACT 'G' U.O.N)

- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING ACOUSTICAL CEILING SYSTEM AS INDCATED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO CEILING TILES, GRID, RUNNERS, CROSS TEES, FURRING STRIPS, WALL ANGLE TRIM, HANGER WIRE, TIES, AND ALL DEVICES USED TO SECURE THE CEILING IN PLACE. COORDINATE WITH 'H' AND 'E' CONTRACTORS REGARDING ADDITIONAL REMOVALS AND WORK.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING GYPSUM BOARD AND/OR PLASTER CEILINGS, SOFFITS, AND FASCIAS, INCLUDING BUT NOT LIMITED TO ALL SUPPORTS, BRACING AND ALL DEVICES USED TO SECURE THESE ITEMS IN PLACE.
- CONTRACT 'E' SHALL REMOVE AND DISPOSE OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO ALL LIGHT FIXTURE(S), FIRE ALARM DEVICES, AND ALL DEVICES USED TO SECURE THE EQUIPMENT IN PLACE.
- CONTRACTOR TO CUTBACK EXISTING OVERHANG INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED STEEL, FRAMING, SOFFIT PANELS, FASICA AND SUPPORTS AS REQUIRED TO FURNISH AND INSTALL NEW CONNECTING CORRIDOR.







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HCSD2401H JANUARY 2025 AS SHOWN Harrison Central

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Building Addition at the Purchase Elementary School



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SED No.: 66-05-01-06-0-001-027

NTRACT CONTRACT G

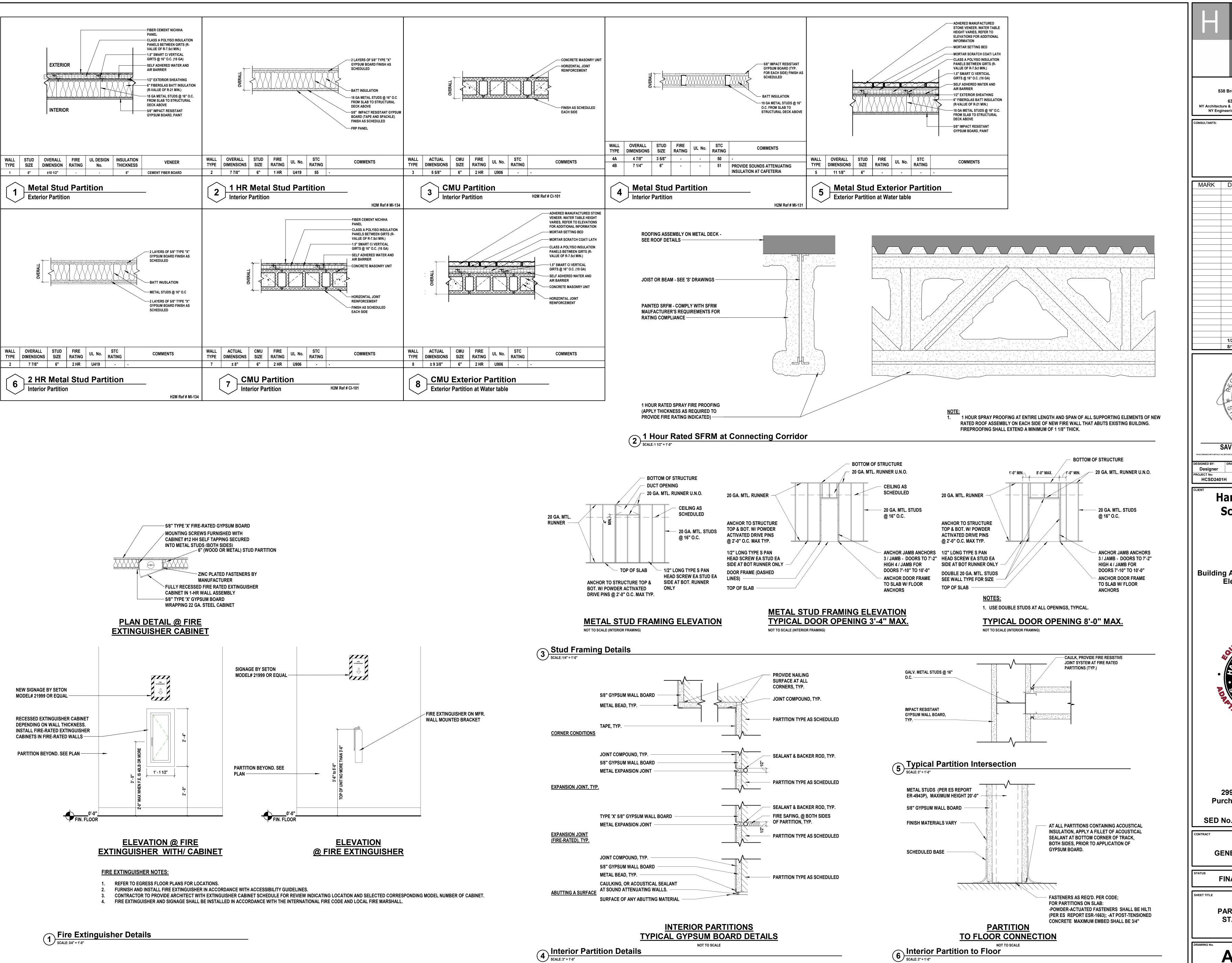
FINAL BID DOCUMENT

GENERAL CONSTRUCTION

SHEET TITLE

PARTIAL DEMOLITION FIRST FLOOR PLAN

AD 111.00

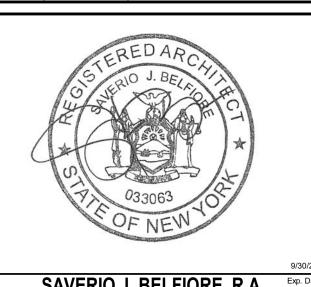


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Building Addition at the Purchase Elementary School



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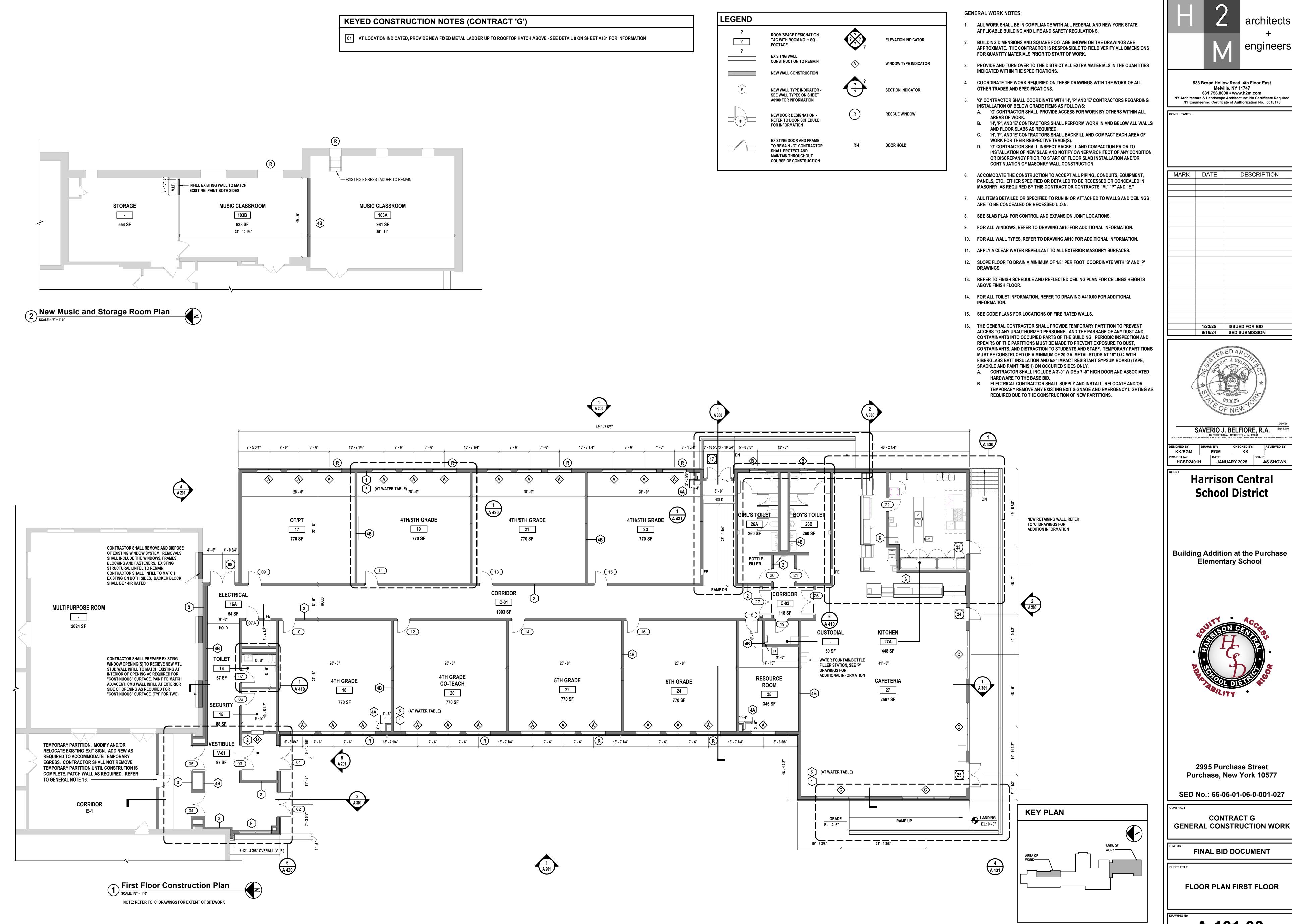
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CONTRACT G GENERAL CONTRACTOR

FINAL BID DOCUMENT

PARTITION TYPES AND STANDARD DETAILS

A 010.00



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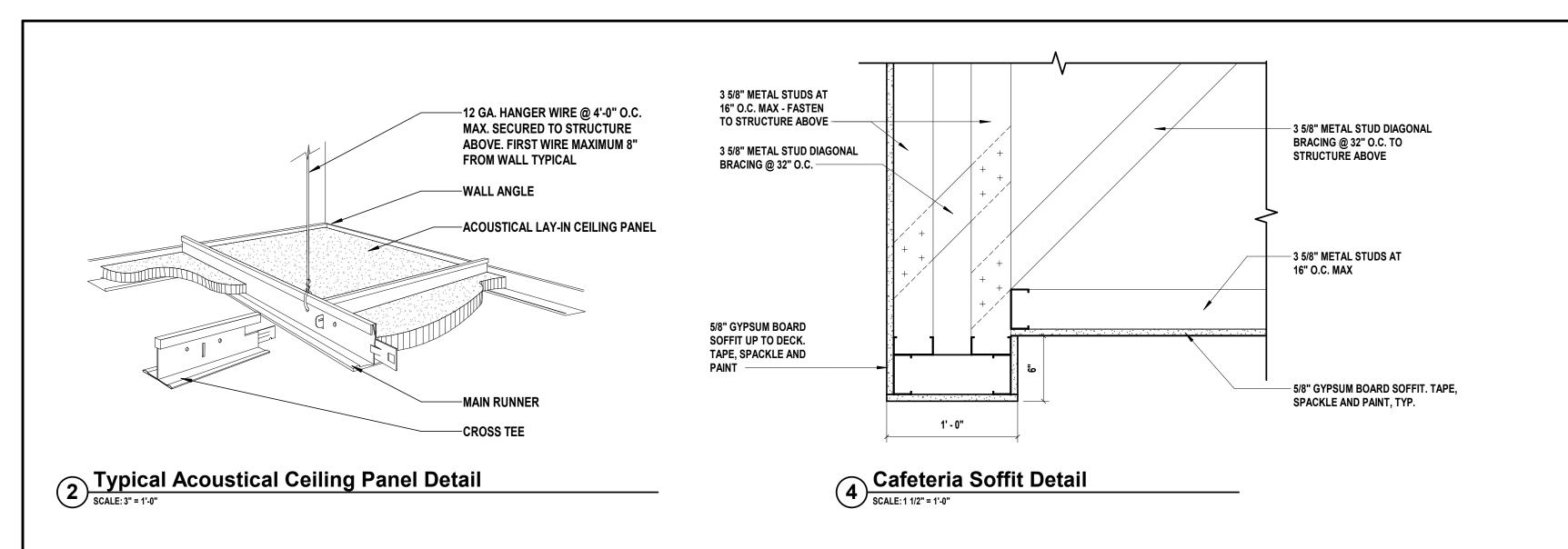
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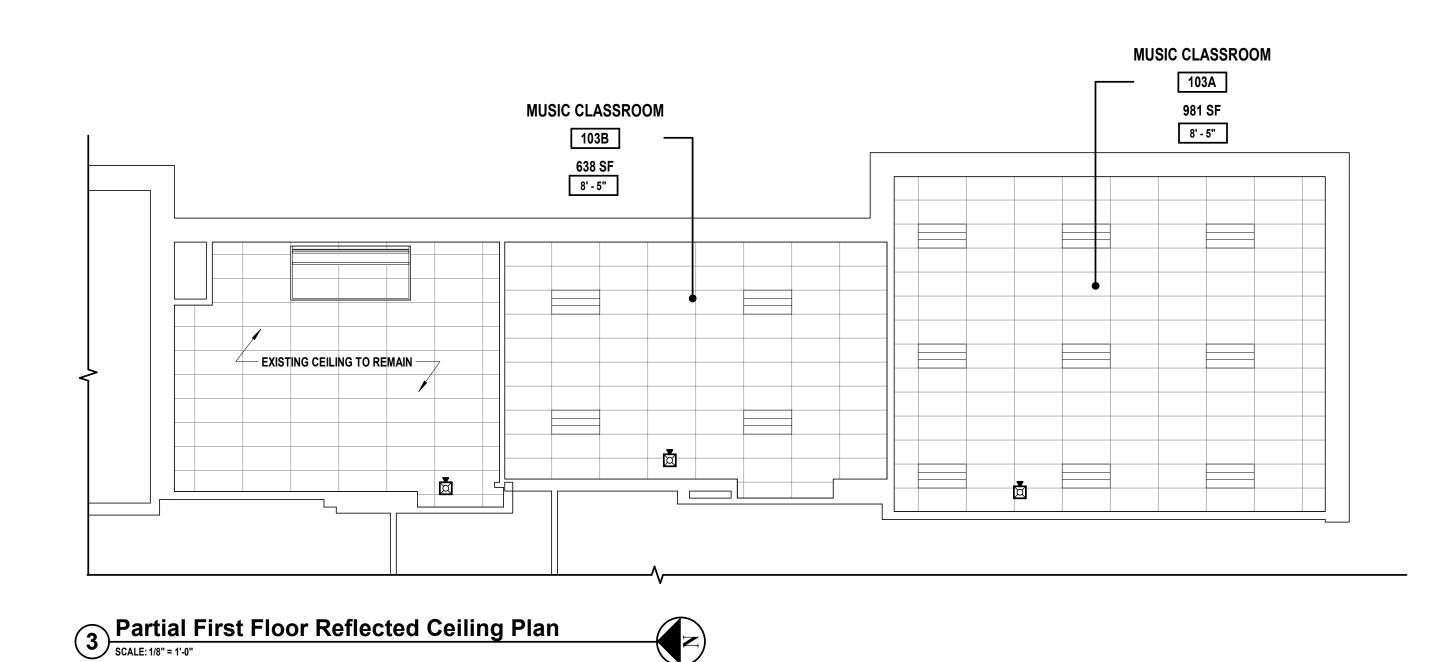
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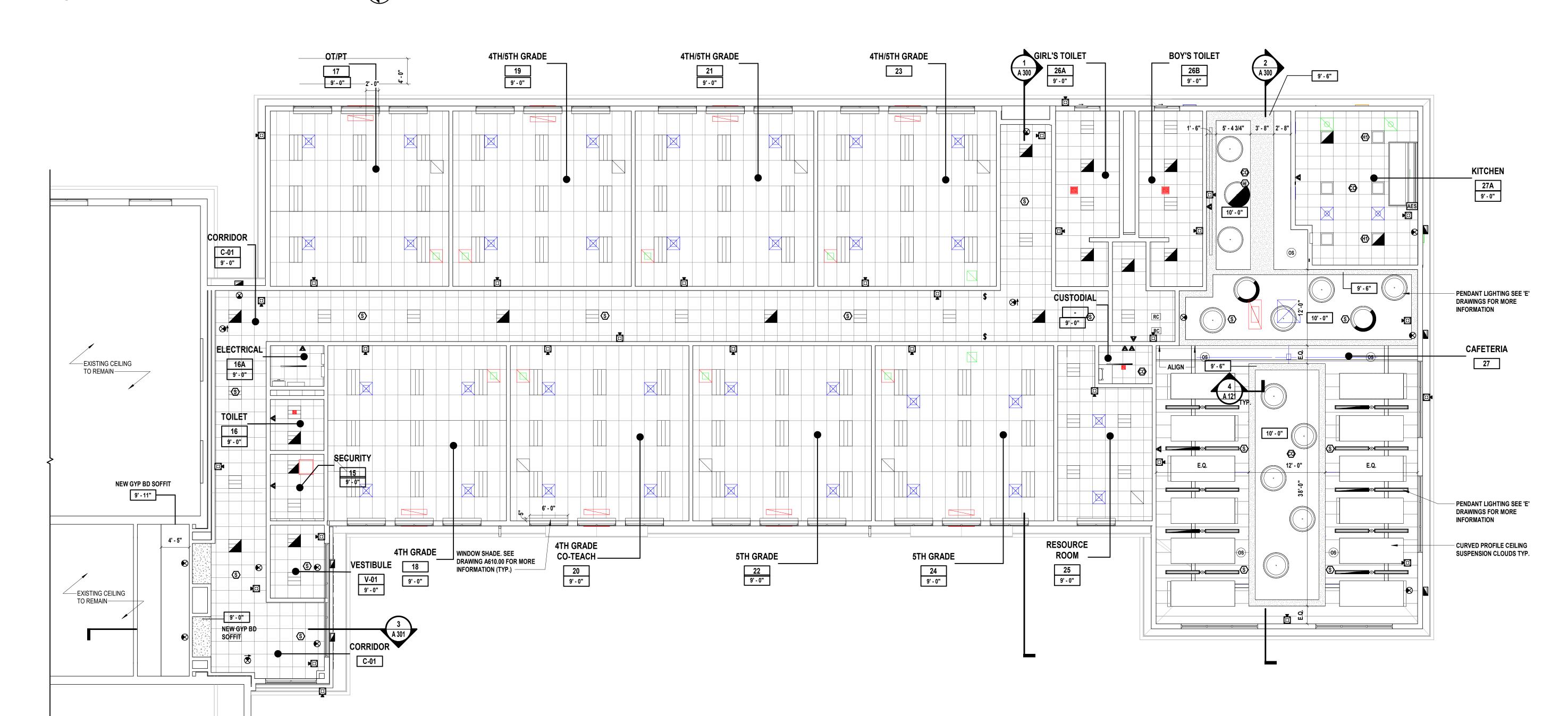
FINAL BID DOCUMENT

FLOOR PLAN FIRST FLOOR

A 101.00



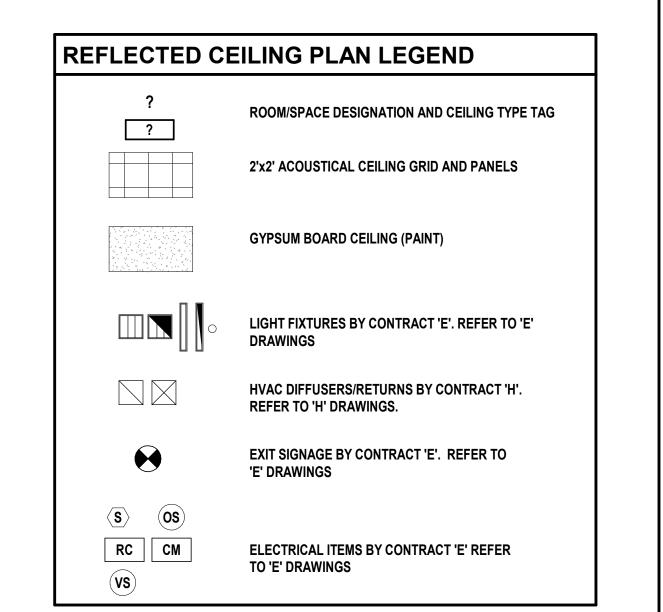




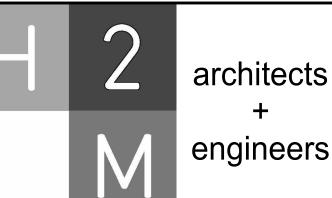


PERFORMED UNDER THE CONTRACT DOCUMENTS.

- BUILDING DIMENSIONS AND SQUARE FOOTAGES SHOWN ON THE DRAWINGS
 ARE APPROXIMATE. THE CONTRACTO SHALL BE RESPONSIBLE TO FIELD VERIFY
 ALL DIMENSIONS FOR QUANTITY MATERIALS PRIOR TO START OF WORK.
- CONTRACTOR SHALL VERIFY ALL CEILING HEIGHTS AND HEIGHTS TO EXPOSED STRUCTURAL MEMBERS IN COORDINATION WITH ALL OTHER WORK
- 3. ALL CEILING HEIGHTS INDICATED ON THIS DRAWING INDICATE A DISTANCE FROM DATUM ELEVATION OF [0'-0"].
- CONTRACTOR SHALL COORDINATE ALL THE WORK REQUIRED ON THIS DRAWING WITH ALL ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AND SPECIFICATIONS.
- ACOOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, ETC., EITHER SPECIFIED OR DETAILD TO BE RECESSED OR CONCEALED IN MASONRY WALLS AS REQUIRED BY THIS CONTRACT. COORDINATE LOCATION OF ANY RECESSED OR CONSEALED ITEMS.
- 6. SUSPENDED CEILING SYSTEM SHALL BE CENETERED WITHIN THE ROOM IN BOTH DIRECTIONS UNLESS SPECIFICALLY NOTED DIFFERENTLY ON THE DRAWINGS.



KEY PLAN



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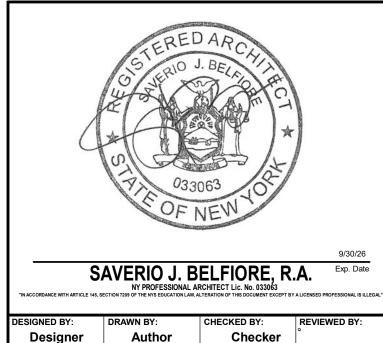
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Harrison Central School District

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CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

EET TITLE

REFLECTED CEILING PLAN FIRST FLOOR

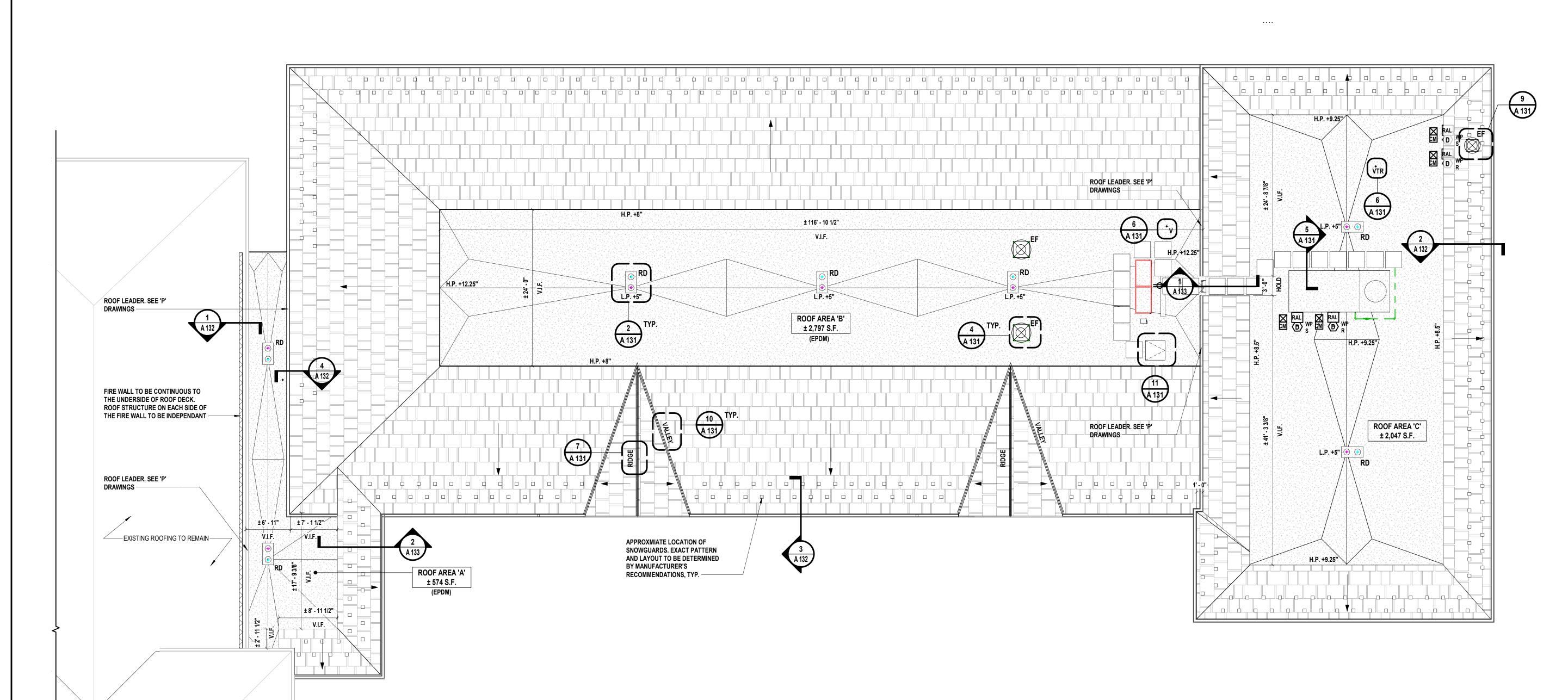
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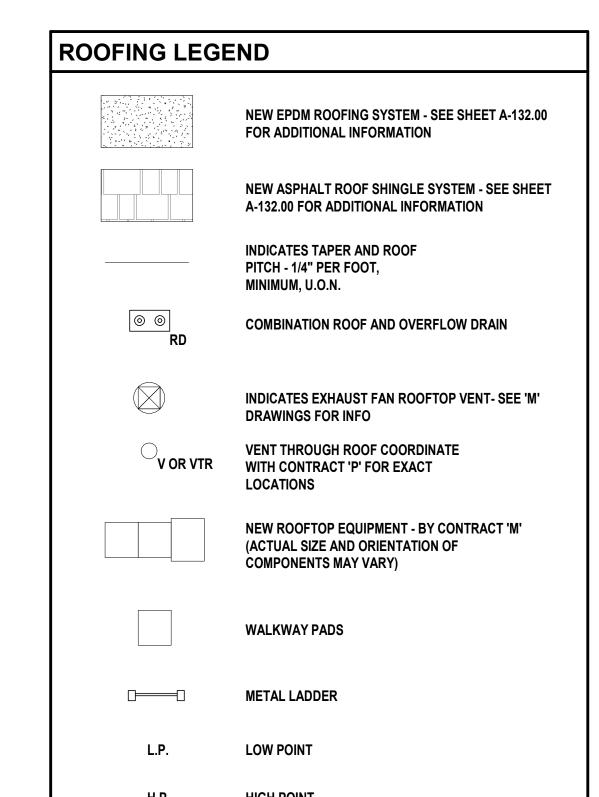
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GENERAL ROOFING NOTES

- 1. THIS DRAWING SERVES AS A LIST OF PRINCIPAL ROOFING ITEMS AND IS NOT A COMPLETE LIST OF EVERY ROOFING ITEM AND ACCESSORY. THIS DRAWING MUST BE COORDINATED WITH ALL OTHER DRAWINGS, ROOF DETAILS AND WITH ALL ITEMS SPECIFIED.
- COORDINATE THE WORK REQUIRED ON THIS DRAWING WITH ALL STRUCTURAL, CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- 3. COORDINATE EXACT LOCATIONS OF PENETRATIONS TO BE MADE IN ALL ROOF AREAS AND ROOF ASSEMBLIES.
- 4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO MAKE AND FLUSH ALL ROOF PENETRATIONS.
- 5. H-P-E CONTRACTORS SHALL FURNISH SLEEVES AND LOCATE ALL NECESSARY PENETRATIONS REQUIRED TO ACCOMMODATE ALL WORK DETAILED OR SPECIFIED FOR THEIR RESPECTIVE CONTRACT.
- 6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FLASHING AND TERMINATIONS FOR ALL ROOF PENETRATIONS UNLESS OTHERWISE NOTED.
- CONTRACT 'H' SHALL FURNISH ALL CURBS FOR EXHAUST FANS, AND HEATING/COOLING UNITS TO G.C. INSTALLATION OF ALL CURBS AND FLASHING INSTALLATIONS SHALL BE PERFORMED BY CONTRACT 'G'.
- . CONTRACT 'P' SHALL FURNISH ALL ROOF DRAINS TO G.C. ALL ROOF DRAINS SHALL BE INSTALLED BY CONTRACT 'G' IN COORDINATION WITH ROOFING WORK.
- 9. CONTRACT 'G' SHALL PROVIDE ALL TEMPORARY ROOF FLASHING WORK. IT IS THE RESPONSIBILITY OF CONTRACT 'G' TO MAINTAIN A WEATHER TIGHT ROOF AT ALL TIMES.
- 10. SEE SHEET A131 FOR ALL TYPICAL DETAILS.
- 11. ROOF SYSTEMS SHALL HAVE NO LESS THAN A SLOPE OF 1/4" PER FOOT.
- 12. PROVIDE CRICKETS BEHIND ALL ROOFING ITEMS/M.E.P. PENETRATIONS AND EQUIPMENT TO PROVIDE POSITIVE PITCH AND TO PREVENT PONDING.
- 13. A CERTIFIED INSTALLER MUST PERFORM ALL ROOFING WORK, AND A LETTER FROM EXISTING ROOFING MANUFACTURER MUST BE OBTAINED STATING THE EXISTING WARRANTY WILL REMAIN IN EFFECT.
- 14. CONTRACT G TO PROVIDE PITCH POCKETS AT LOCATIONS OF ALL DUNNAGE SUPPORTS, ETC.
- 15. H-P-E CONTRACTORS SHALL FURNISH SLEEVES AND LOCATE ALL MECHANICAL PENETRATIONS REQUIRED TO ACCOMMODATE ALL WORK DETAILED OR SPECIFIED FOR THEIR CONTRACT.
- 6. CONTRACT "G" SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE FOR ALL PARTITIONS OF THE ROOF, THROUGHOUT THE ENTIRE DURATION OF THE
- 7. REFER TO 'S' DRAWINGS FOR WIND UPLIFT INFORMATION.
- 8. CONTRACTOR SHALL PROVIDE SNOW GUARDS AT ALL LOCATIONS AS INDICATED ON THE CONSTRUCTION DRAWINGS. APPROXIMATE LAYOUT IS SHOWN, CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR AMOUNT OF ROWS AND DIMENSIONAL OFFSETS.



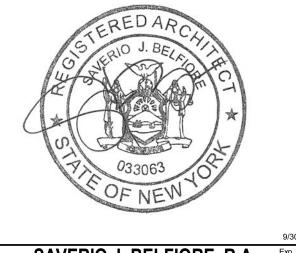


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NY PROFESSIONAL ARCHITECT LIC. No. 033063
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KK/EGM

CHECKED BY:

KK/EGM

REVIEWED BY:

KK/EGM

ROJECT No:

HCSD2401H

JANUARY 2025

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School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

EET TITLE

ROOF CONSTRUCTION PLAN AND NOTES

A 130.00

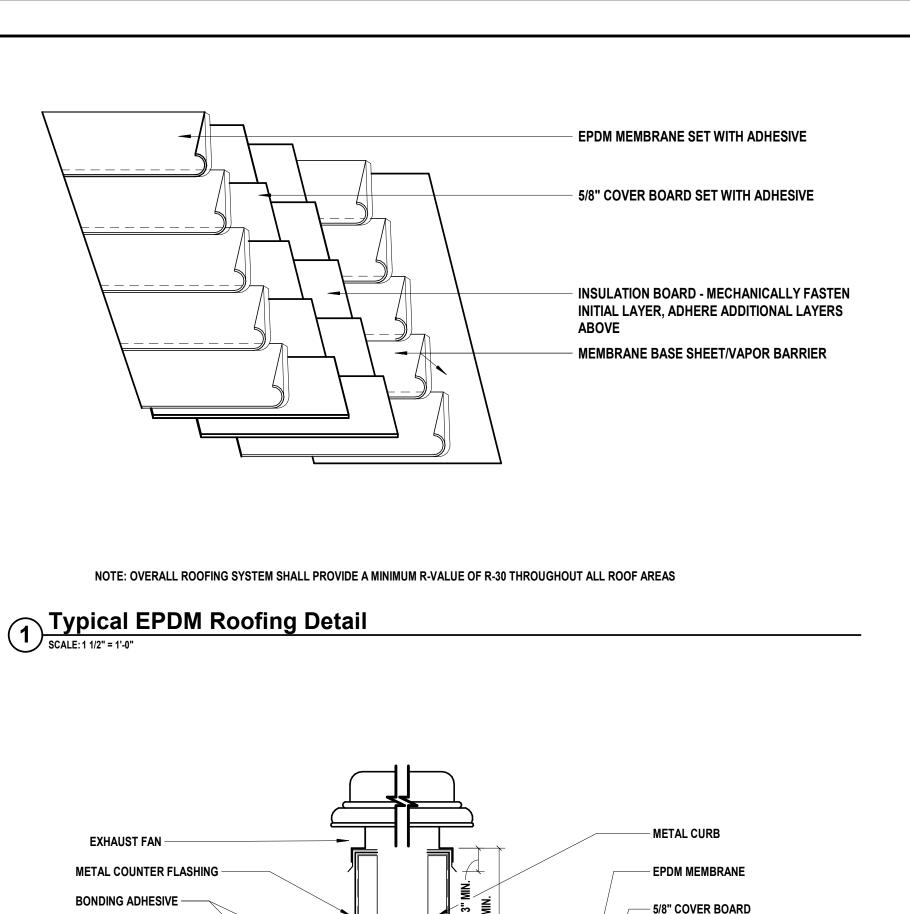
KEY PLAN

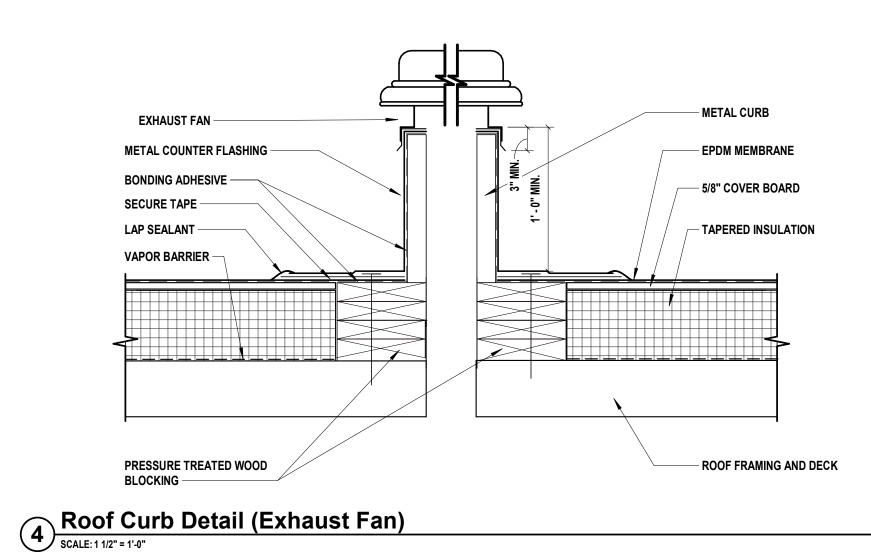
AREA OF WORK

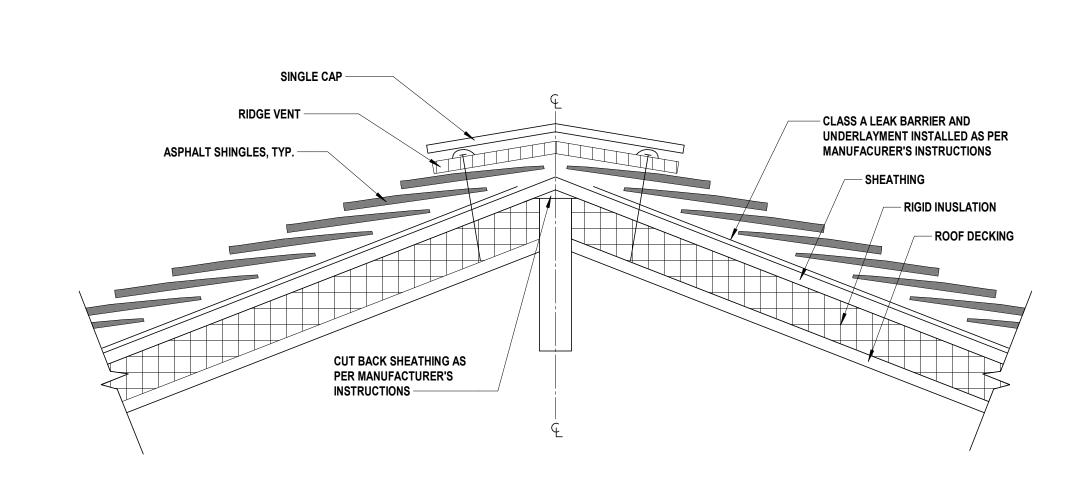
Addition Roof Plan

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

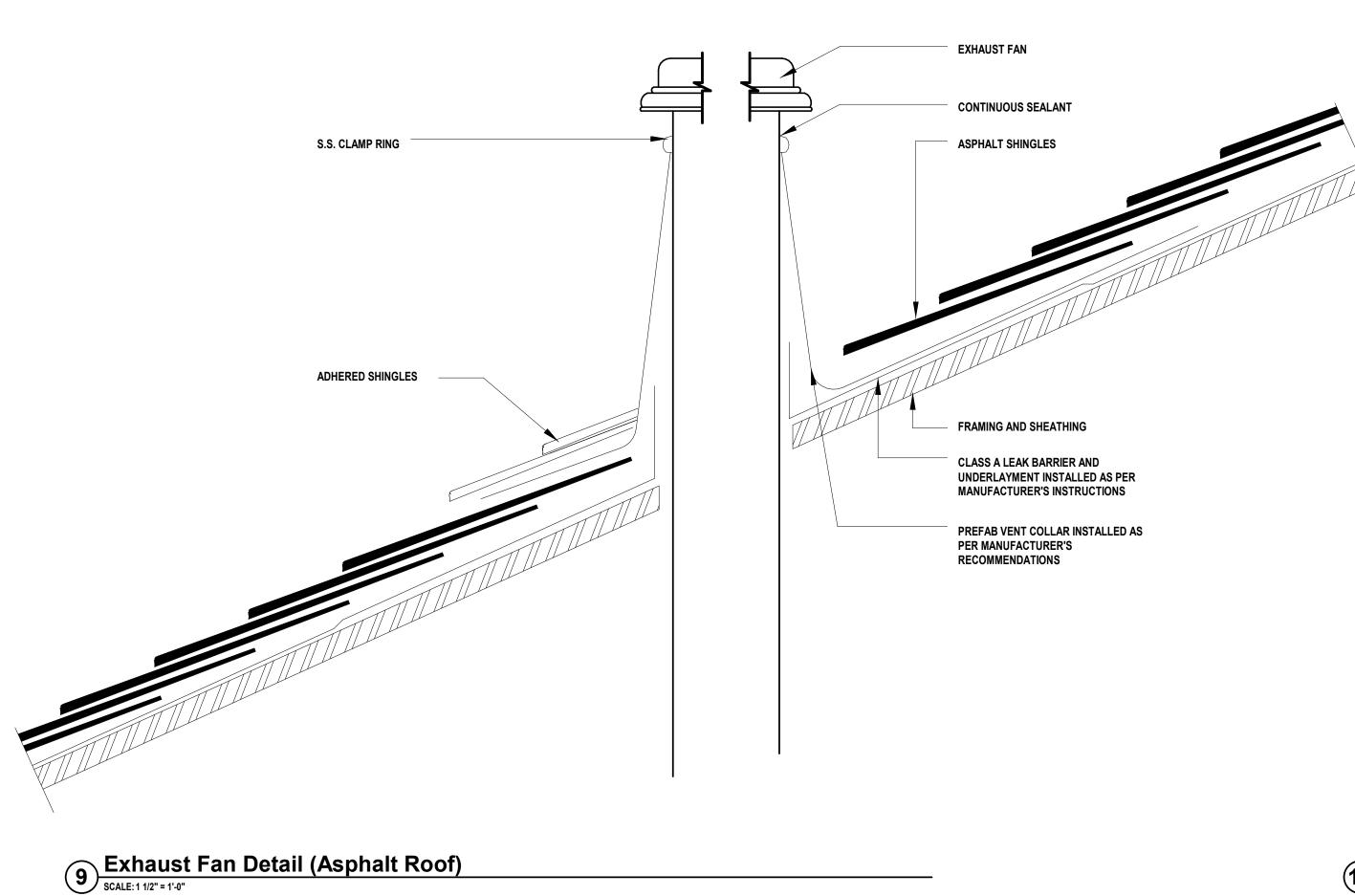
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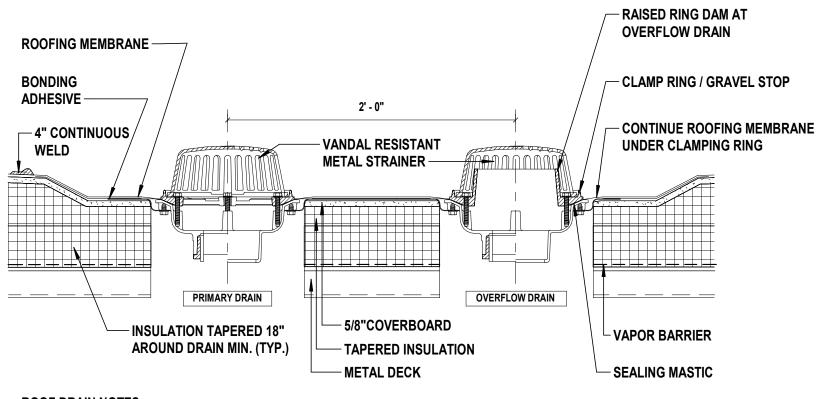






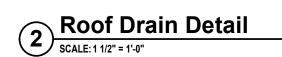
7 Ridge Detail
SCALE: 1" = 1'-0"

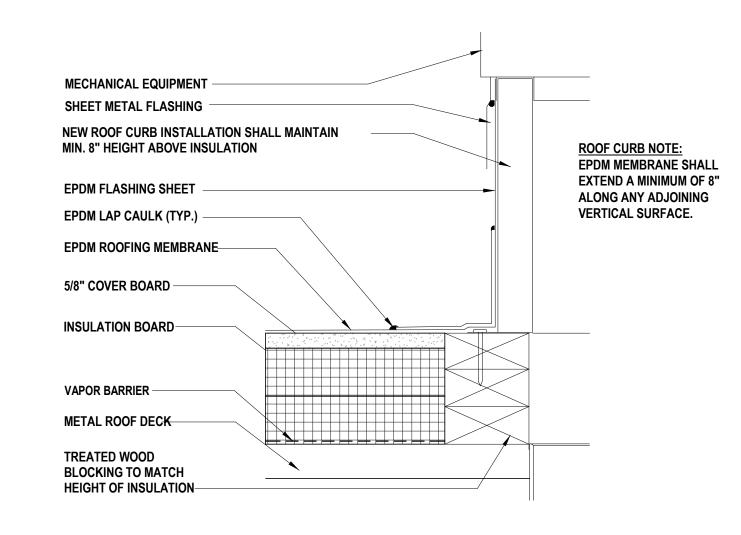




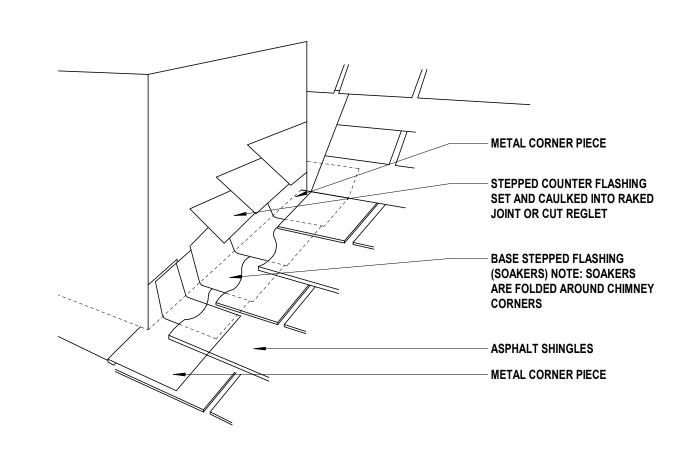
ROOF DRAIN NOTES:
 THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
 ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.

APPROXIMATELY 1/8" DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF MEMBRANE.



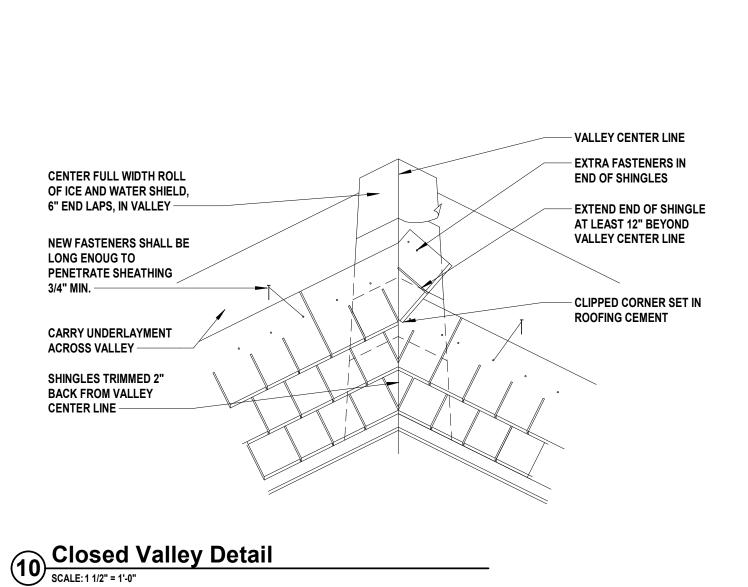


SCALE: 3" = 1'-0"



Step Flashing

SCALE: 1" = 1'-0"



POURABLE SEALER

INSULATIONS TAPER AWAY FROM PITCH PAN. STAGGER

CHEMCURB

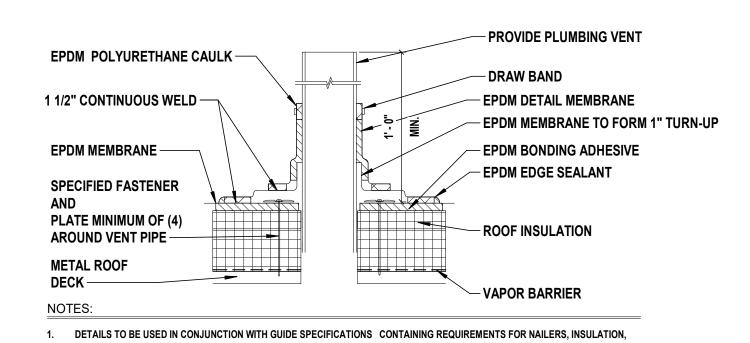
EPDM ROOFING MEMBRANE

SEALANT

(TVP)

METAL ROOF DECK

3 Typical Pitch Pocket Detail SCALE: 3" = 1'-0"



ETC.

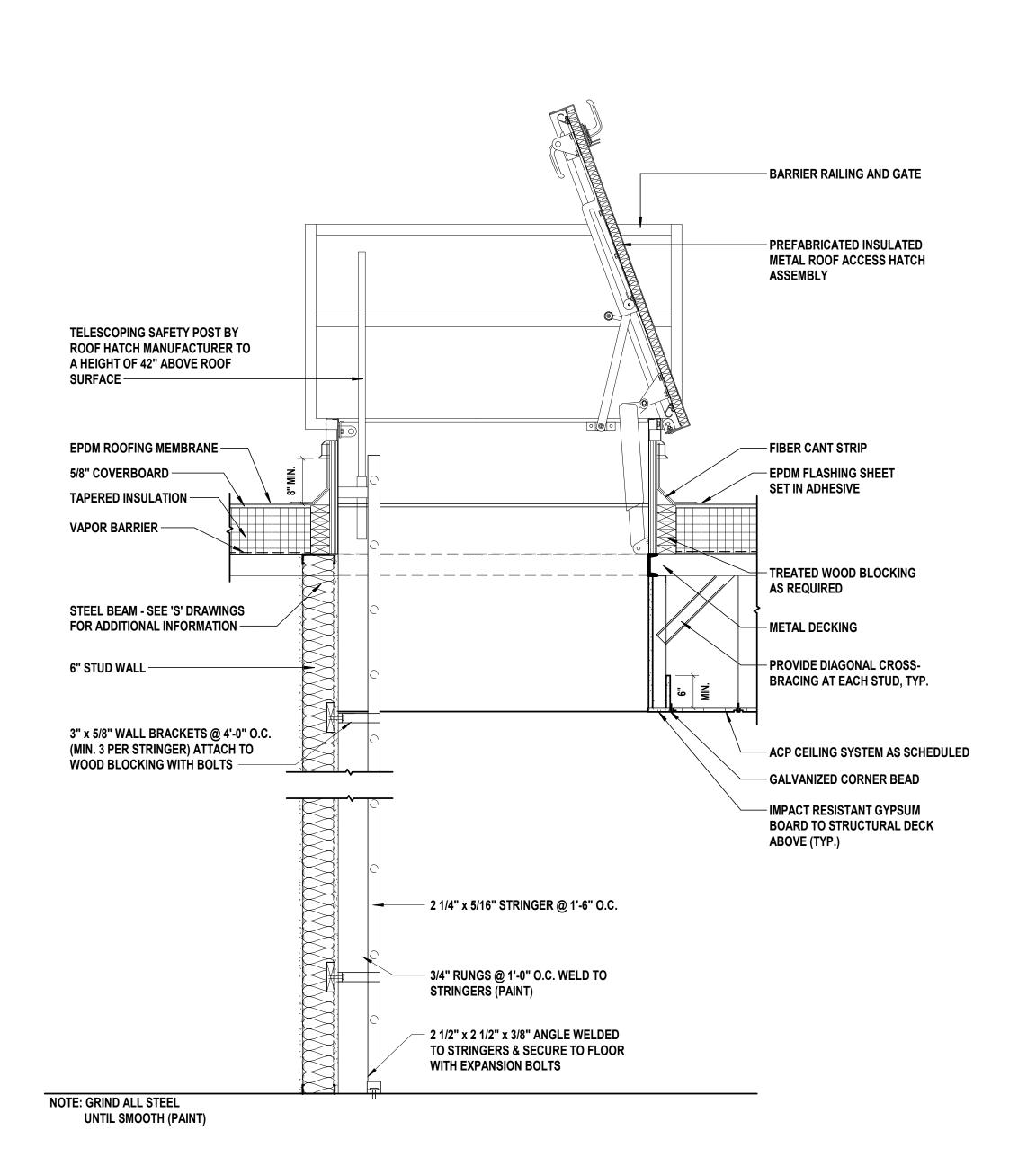
2. EPDM EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE

SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD CUT EDGES.

3. INSULATION MUST BE COMPATIBLE WITH EPDM BONDING ADHESIVE.

Roof Vent Detail

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



Roof Hatch and Ladder Detail

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

1 2 architects + engineers

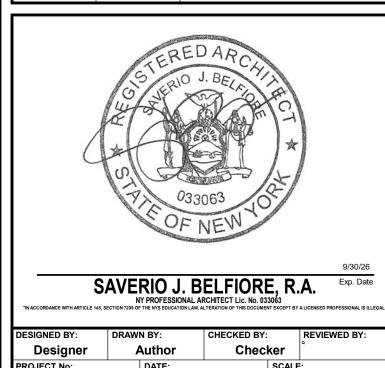
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Harrison Central School District

Building Addition at the Purchase Elementary School



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SED No.: 66-05-01-06-0-001-027

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GENERAL CONSTRUCTION

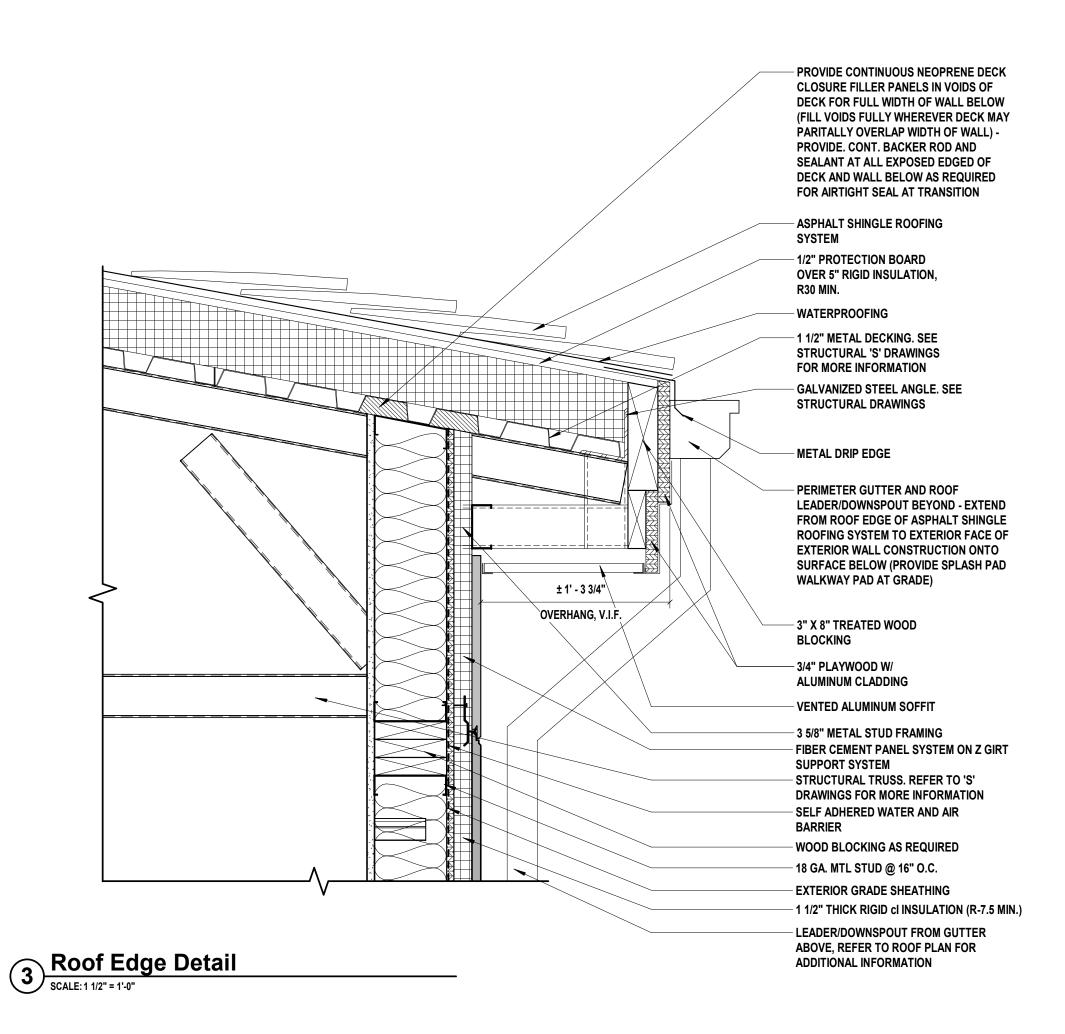
FINAL BID DOCUMENT

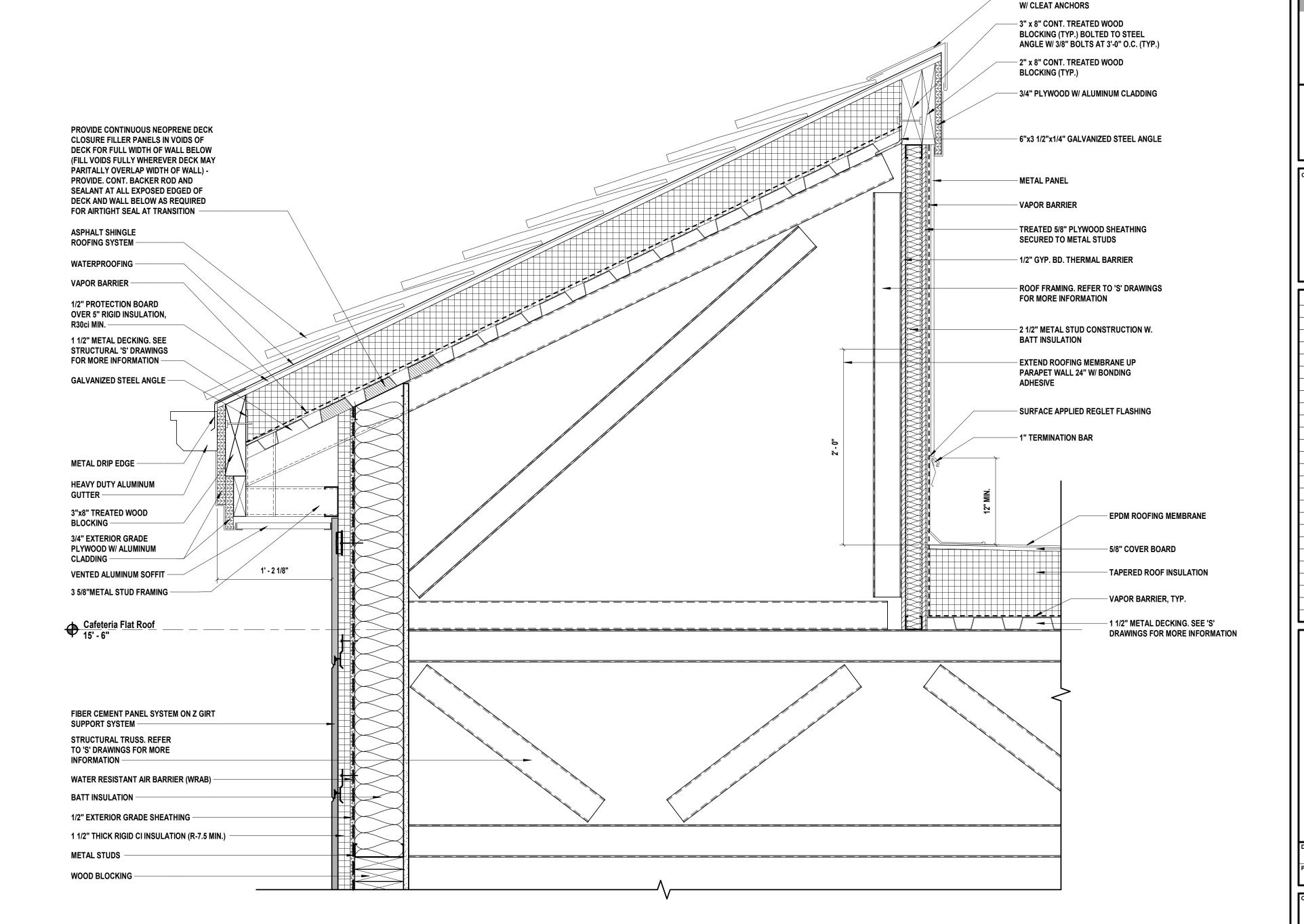
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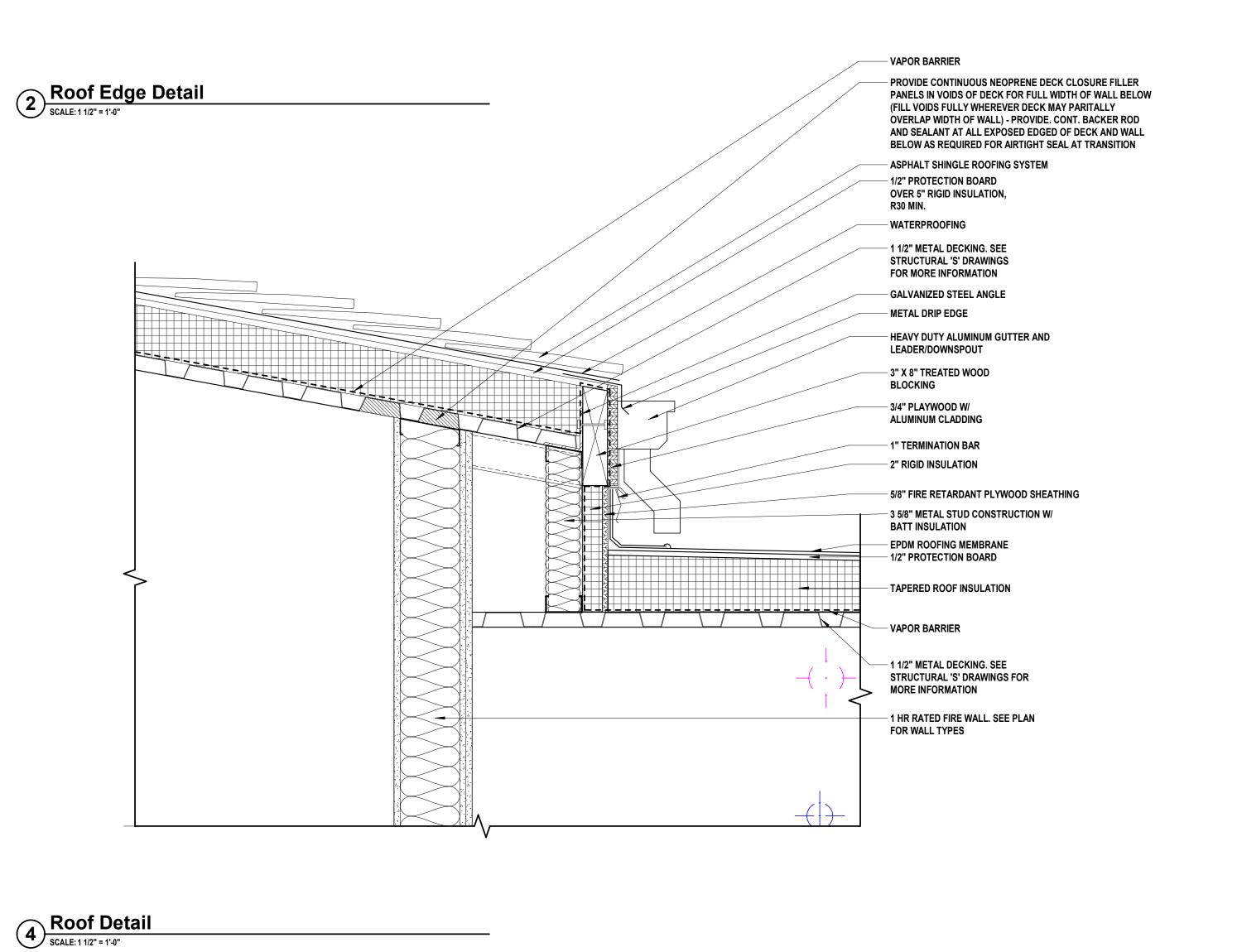
ROOF DETAILS

A 131.00

1 Expansion Joint Detail at Fire Wall SCALE: 1 1/2" = 1'-0"







H 2 architect engineer

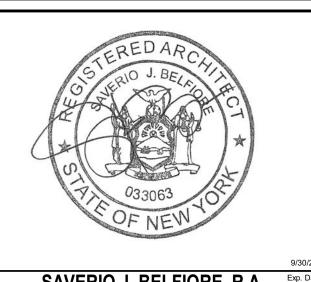
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ISULTANTS:

- .050 CONT. ALUMINUM EDGE FLASHING

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SAVERIO J. BELFIORE, R.A. Exp. Date

NY PROFESSIONAL ARCHITECT Lic. No. 033063

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GNED BY: DRAWN BY: CHECKED BY: REVIEWED BY:

Designer Author Checker

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Harrison Central School District

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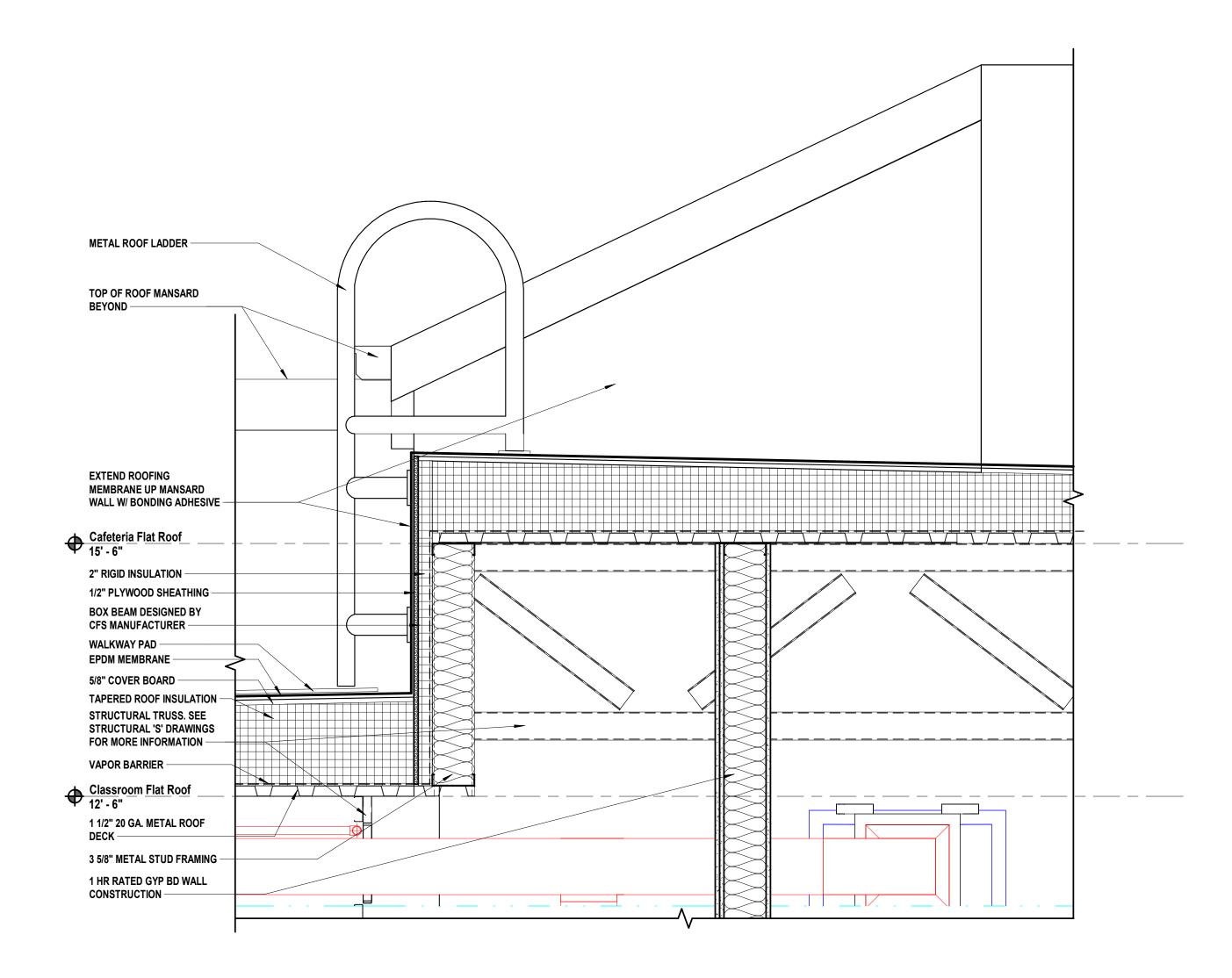
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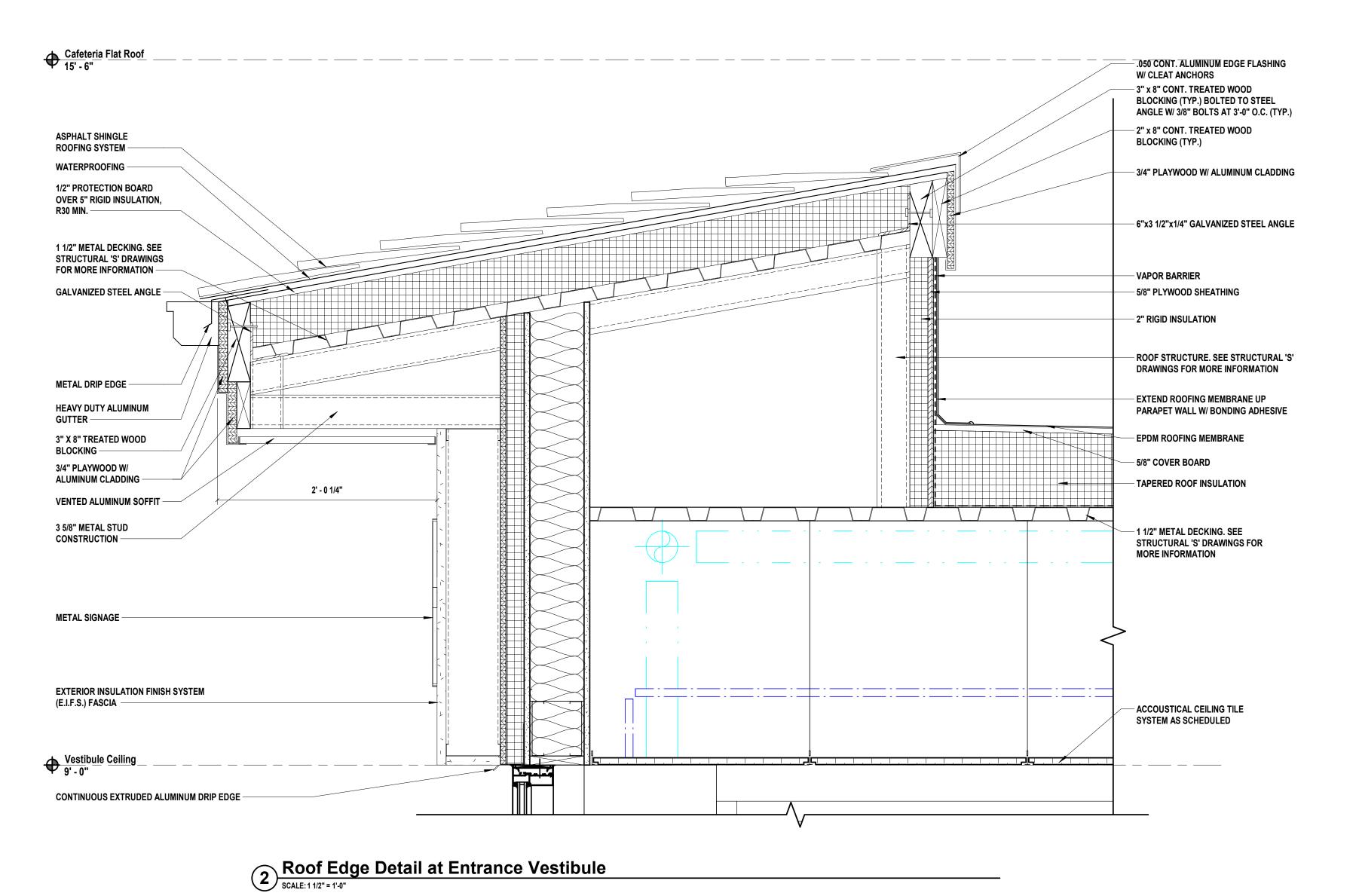
ROOF DETAILS

A 132.00



Roof Ladder Section

SCALE: 1" = 1'-0"



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WY PROFESSIONAL ARCHITECT Lic. No. 63365

"WAGCORDAGE WITH ARTICLE 164, ECTION OF THE UTB DIAMA FOR LICENS OF THE DECEMBER PROFESSIONAL ARCHITECT Lic. No. 63365

DESIGNED BY:
Designer
PROJECT No:
DATE: SCALE:

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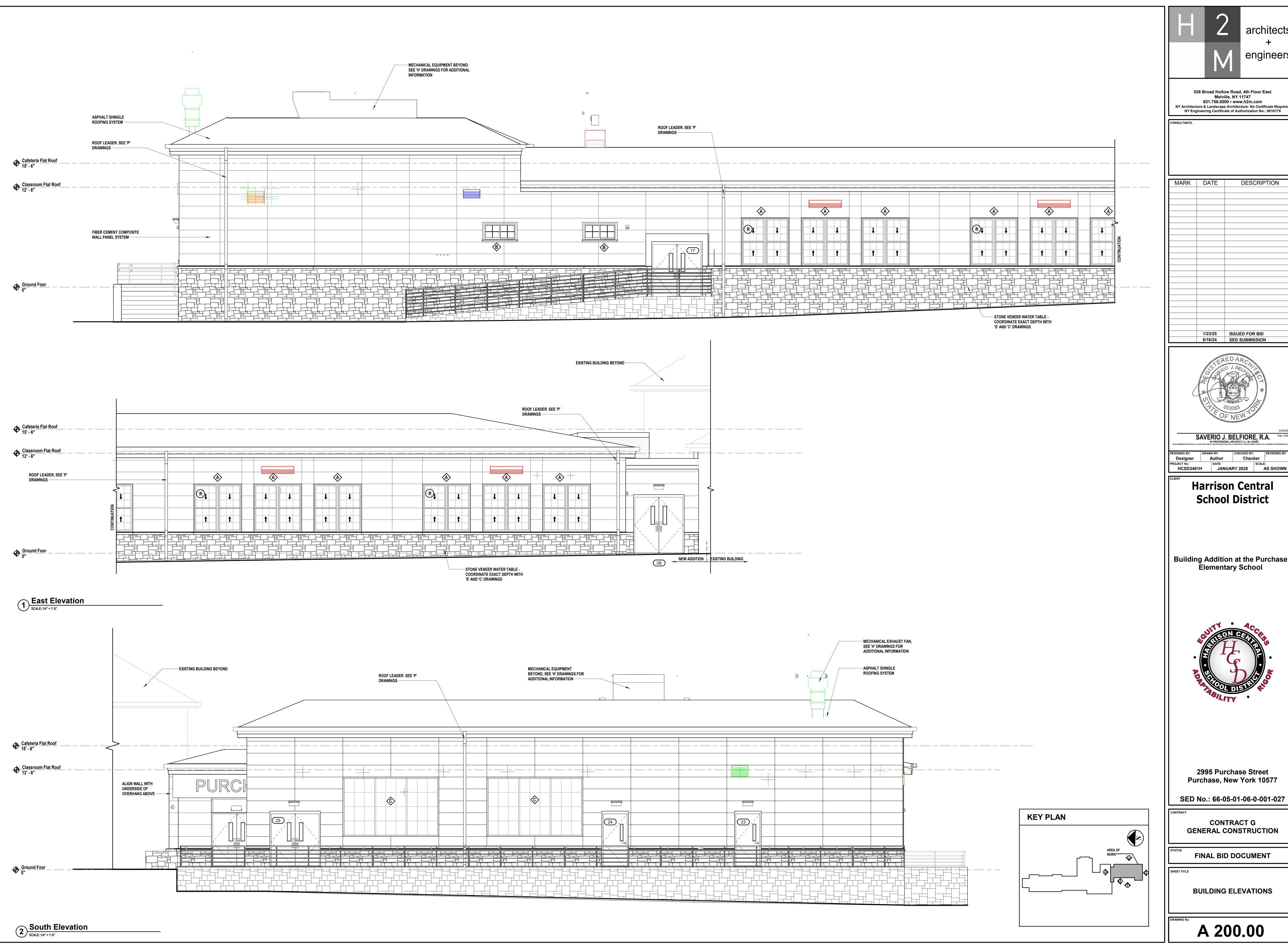
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ROOF DETAILS

A 133.00

1/23/2025 4:24:37 PM



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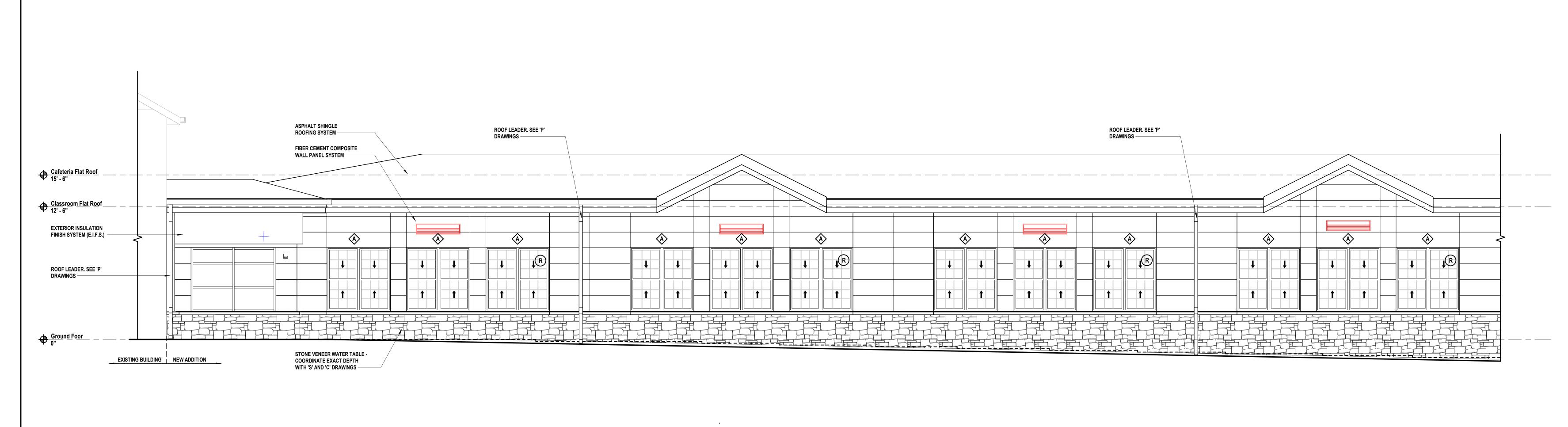
2995 Purchase Street Purchase, New York 10577

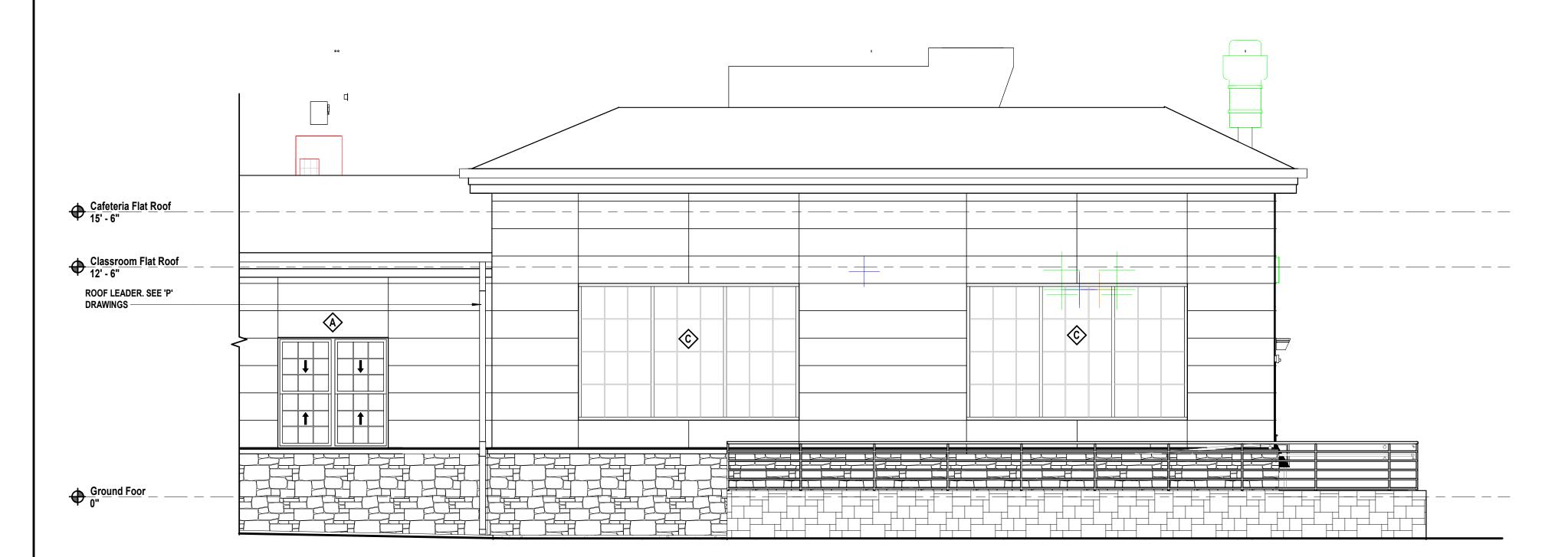
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BUILDING ELEVATIONS

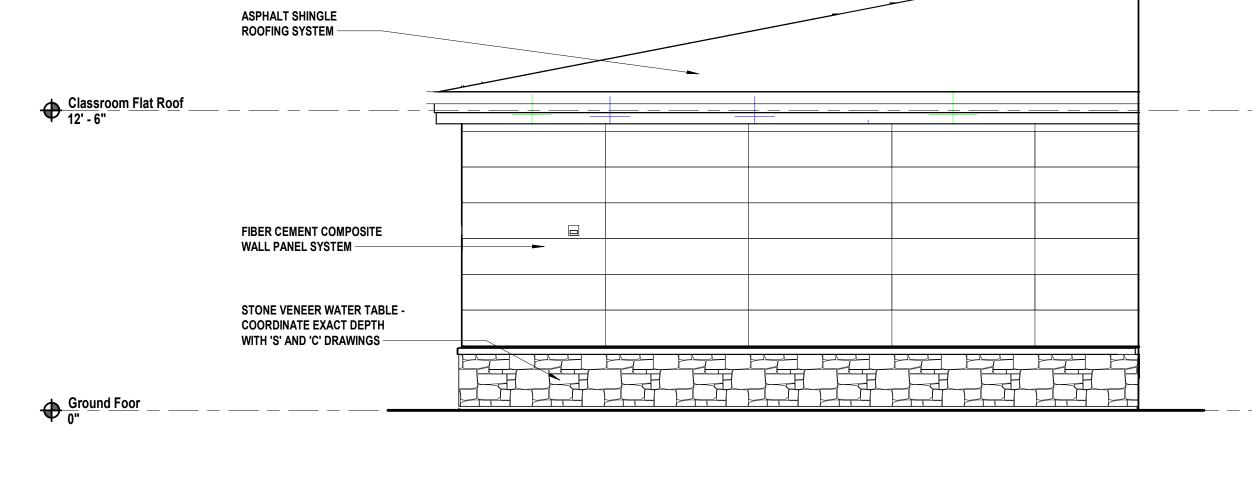
A 200.00





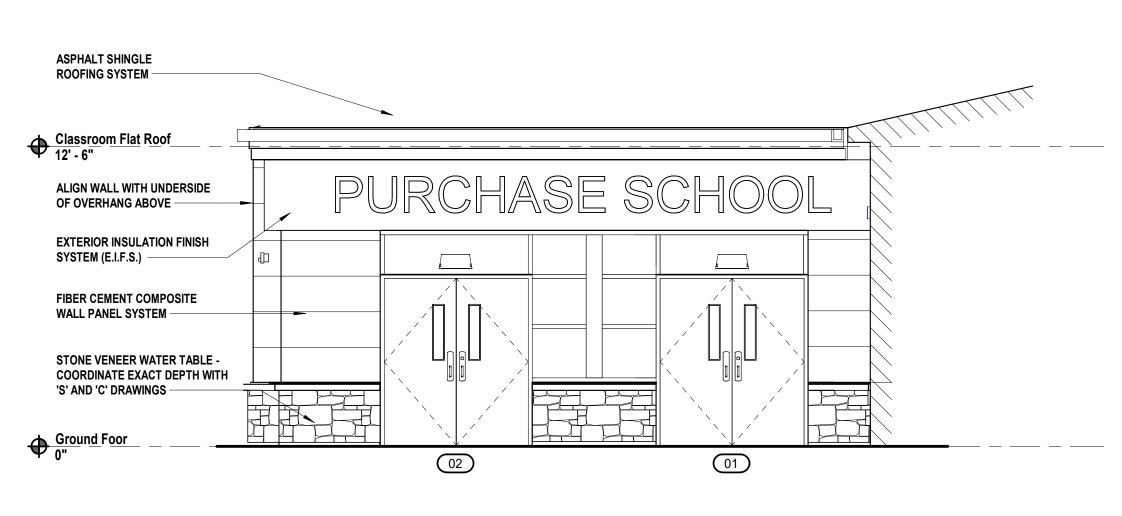
West Elevation

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



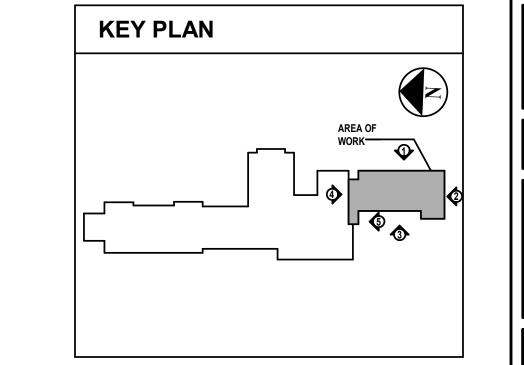
North Elevation

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



South Elevation

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

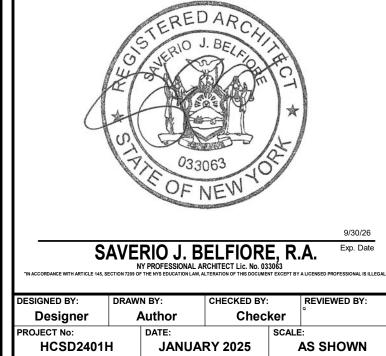


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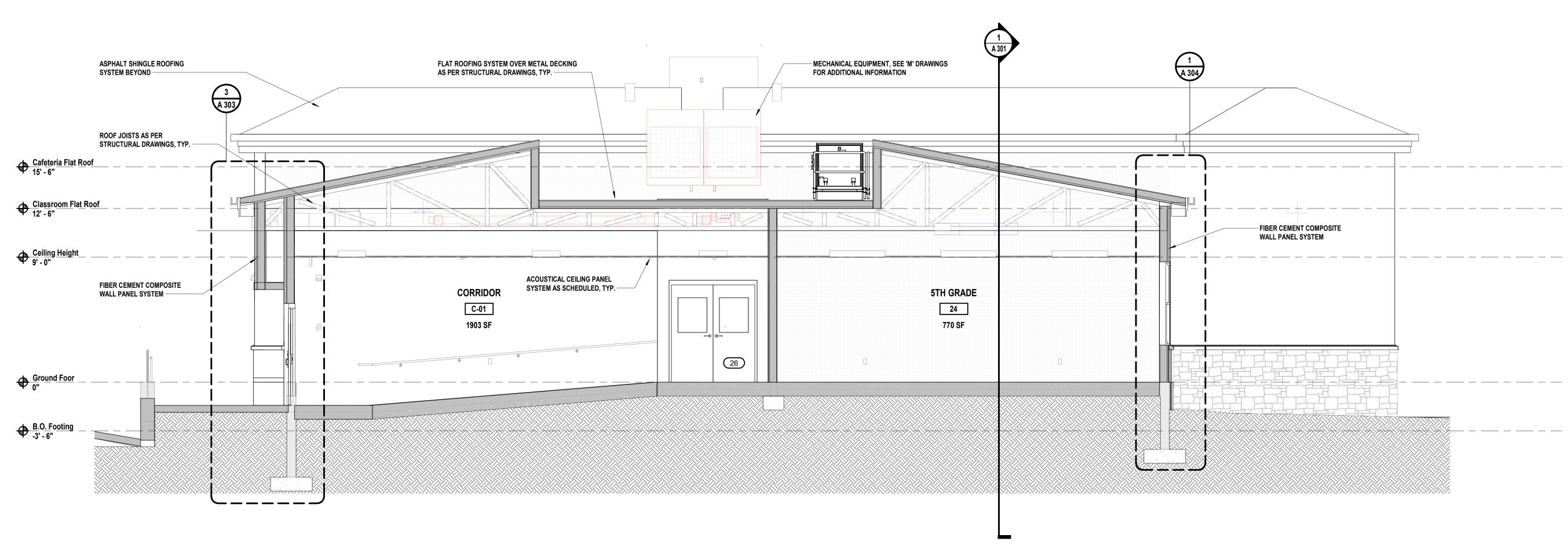
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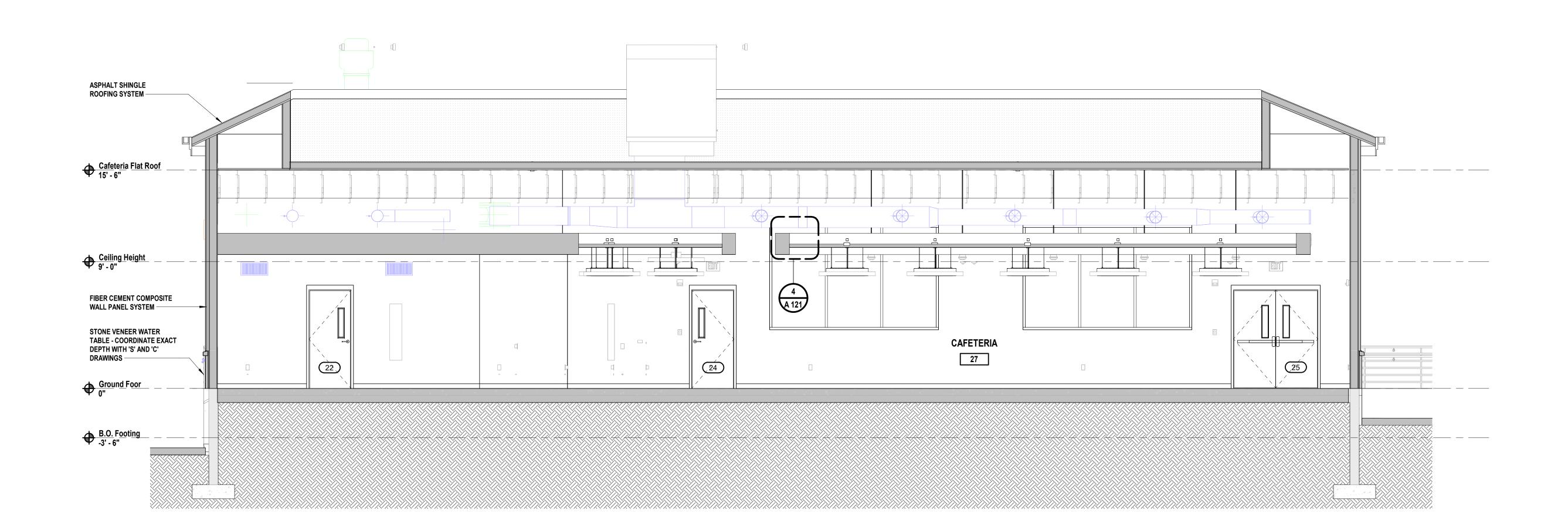
BUILDING ELEVATIONS

A 201.00



Section Through Secondary Egress Corridor

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



Section Through Kitchen and Cafeteria

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

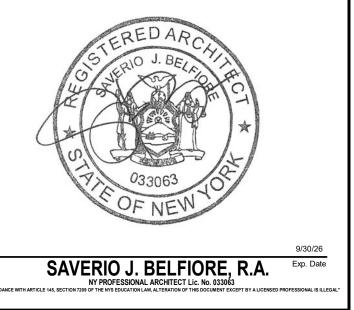
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Designer Date: Scale:

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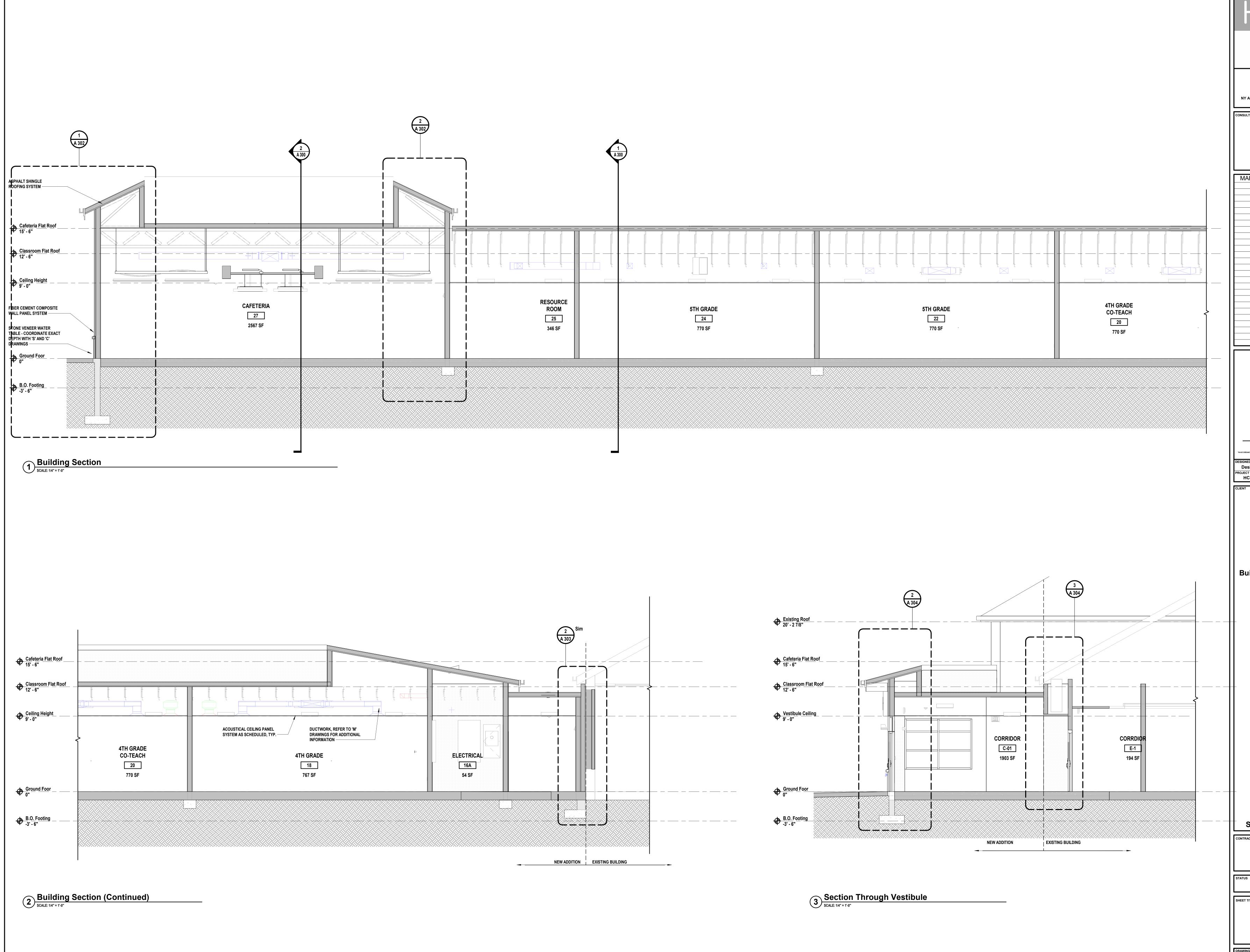
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BUILDING SECTIONS

AWING No.

A 300.00



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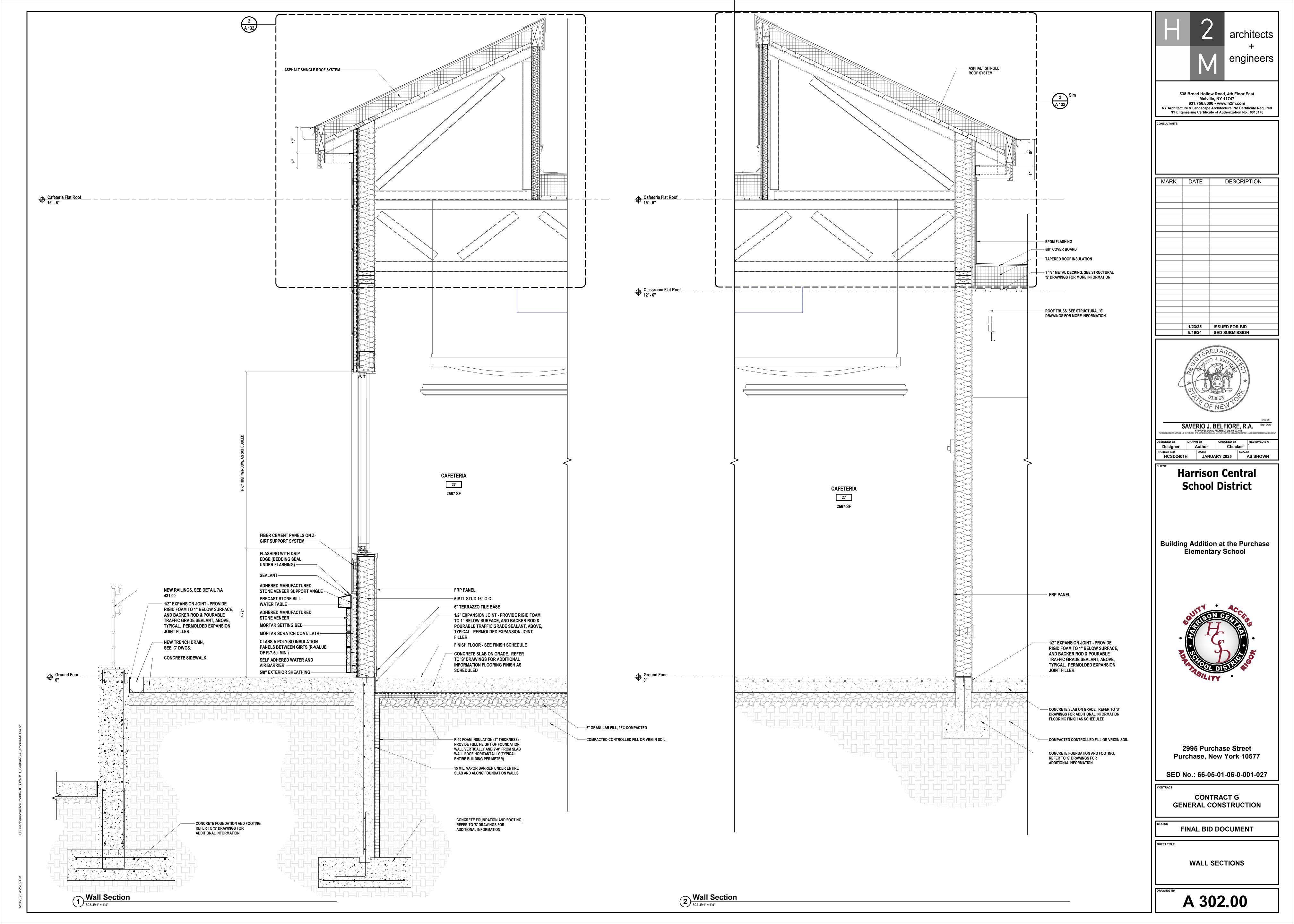
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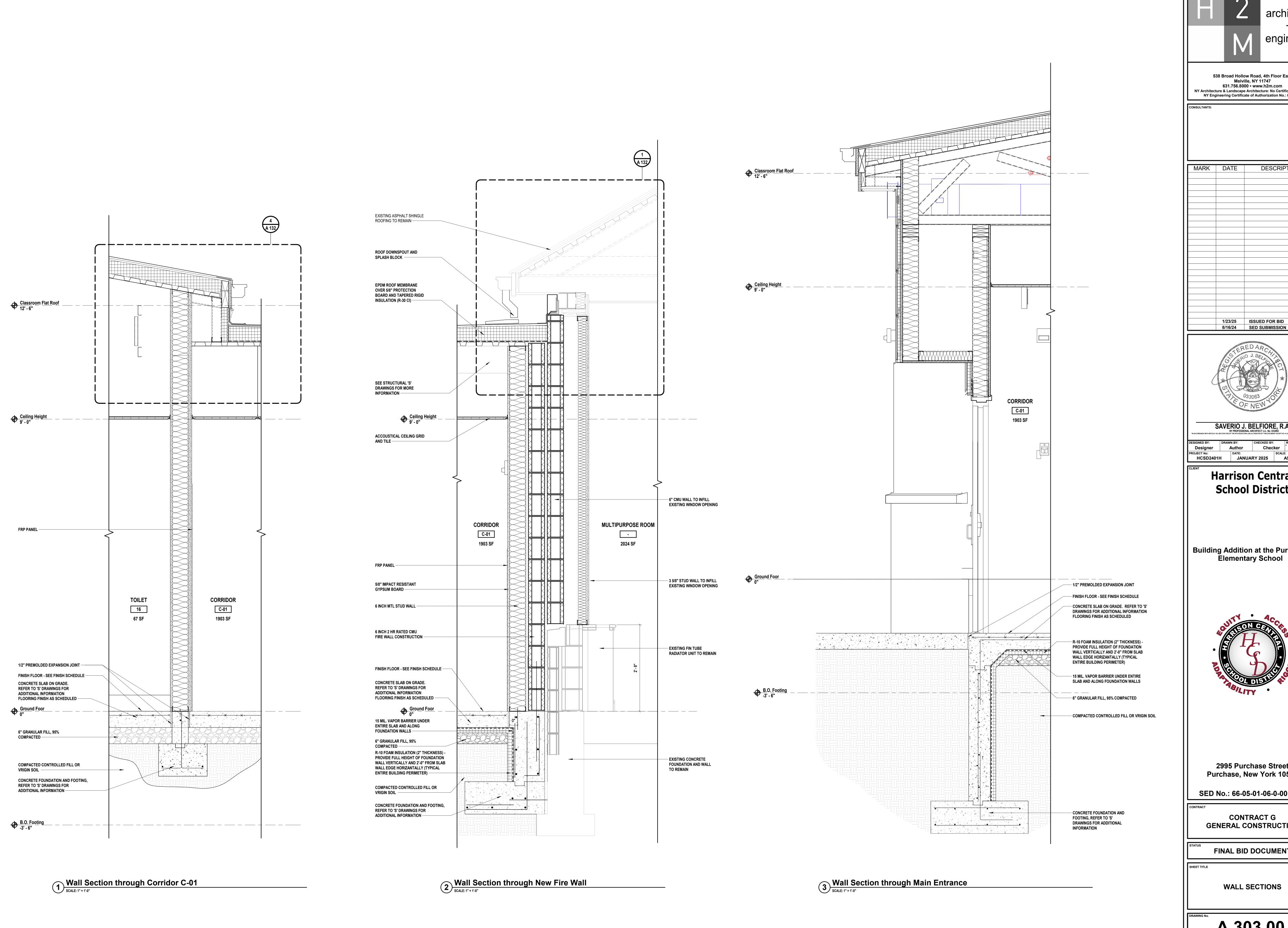
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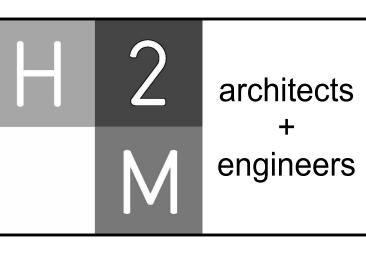
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BUILDING SECTIONS

A 301.00

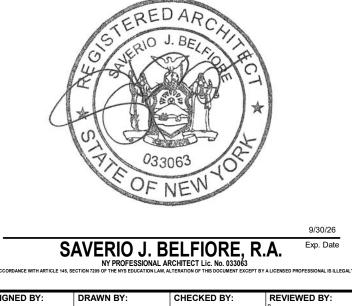






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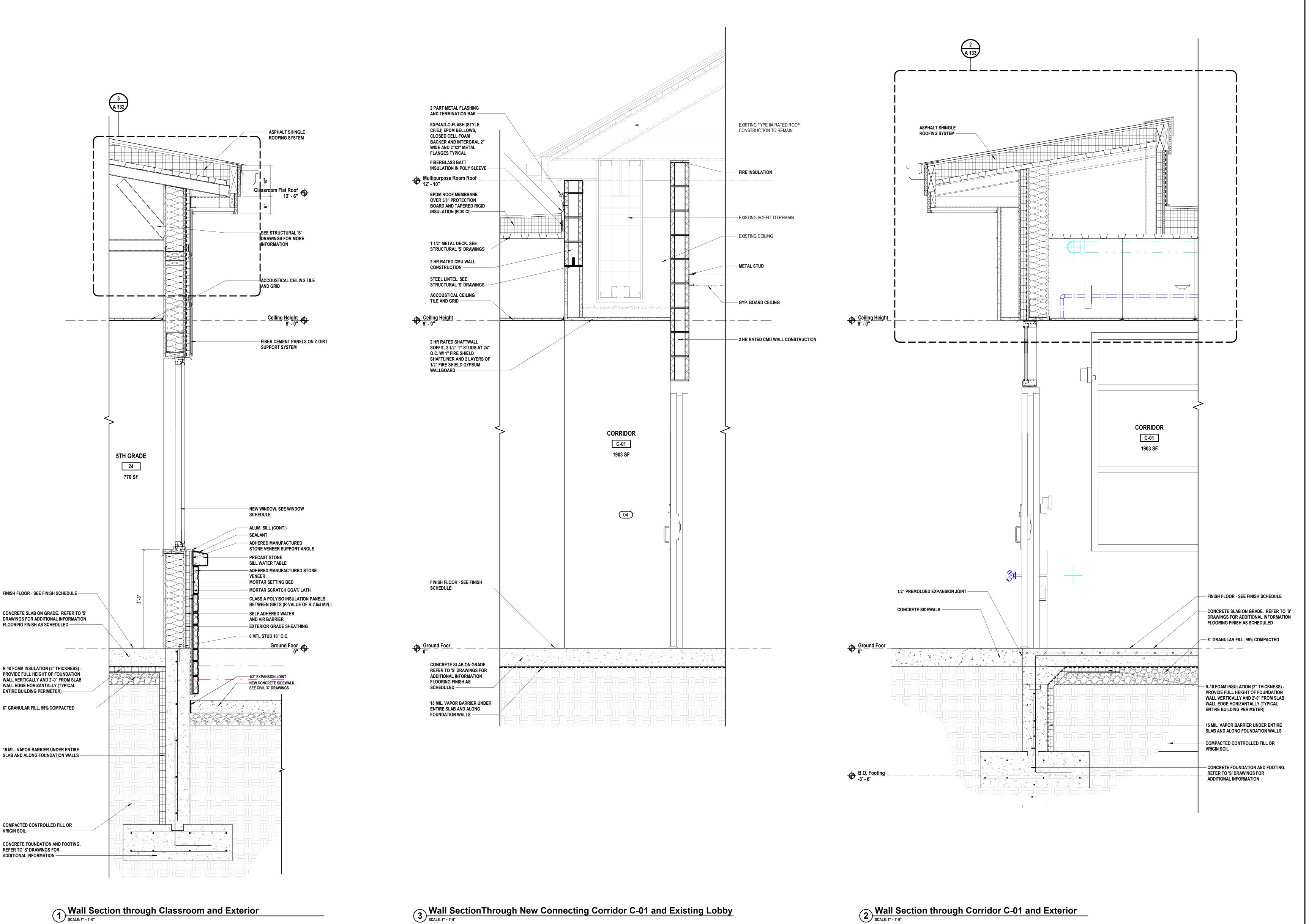
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WALL SECTIONS

A 303.00



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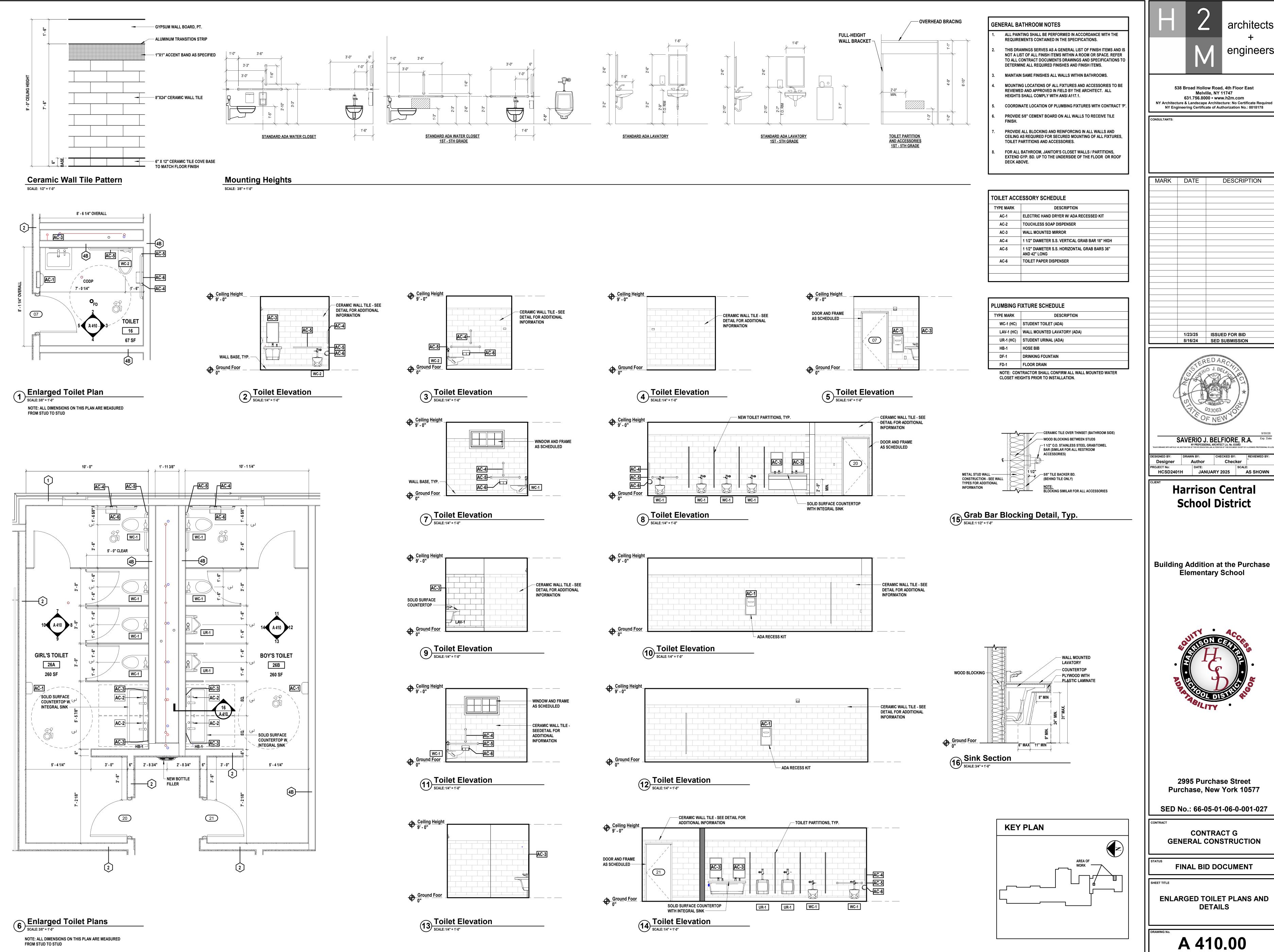
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WALL SECTIONS

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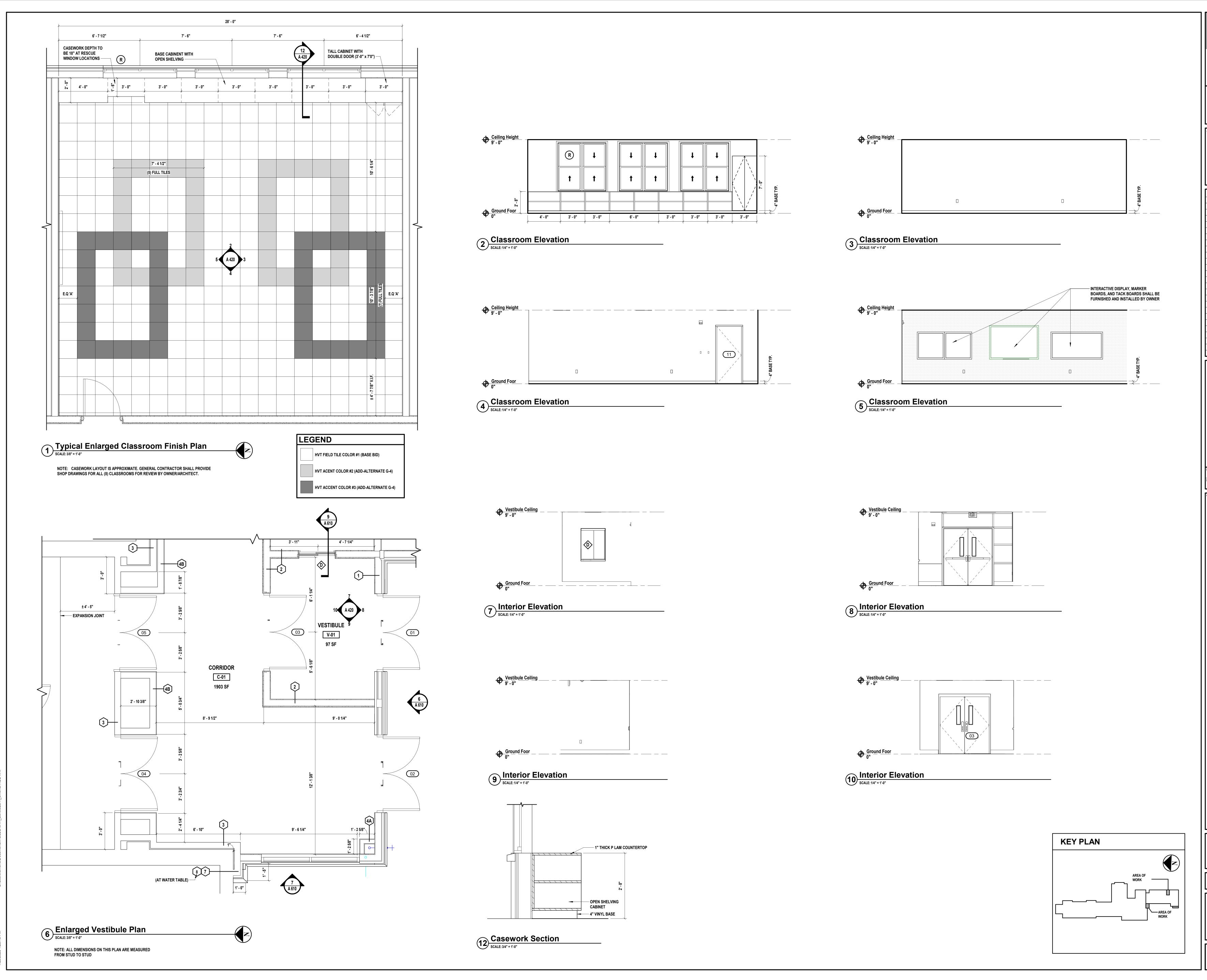
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ENLARGED TOILET PLANS AND DETAILS

A 410.00



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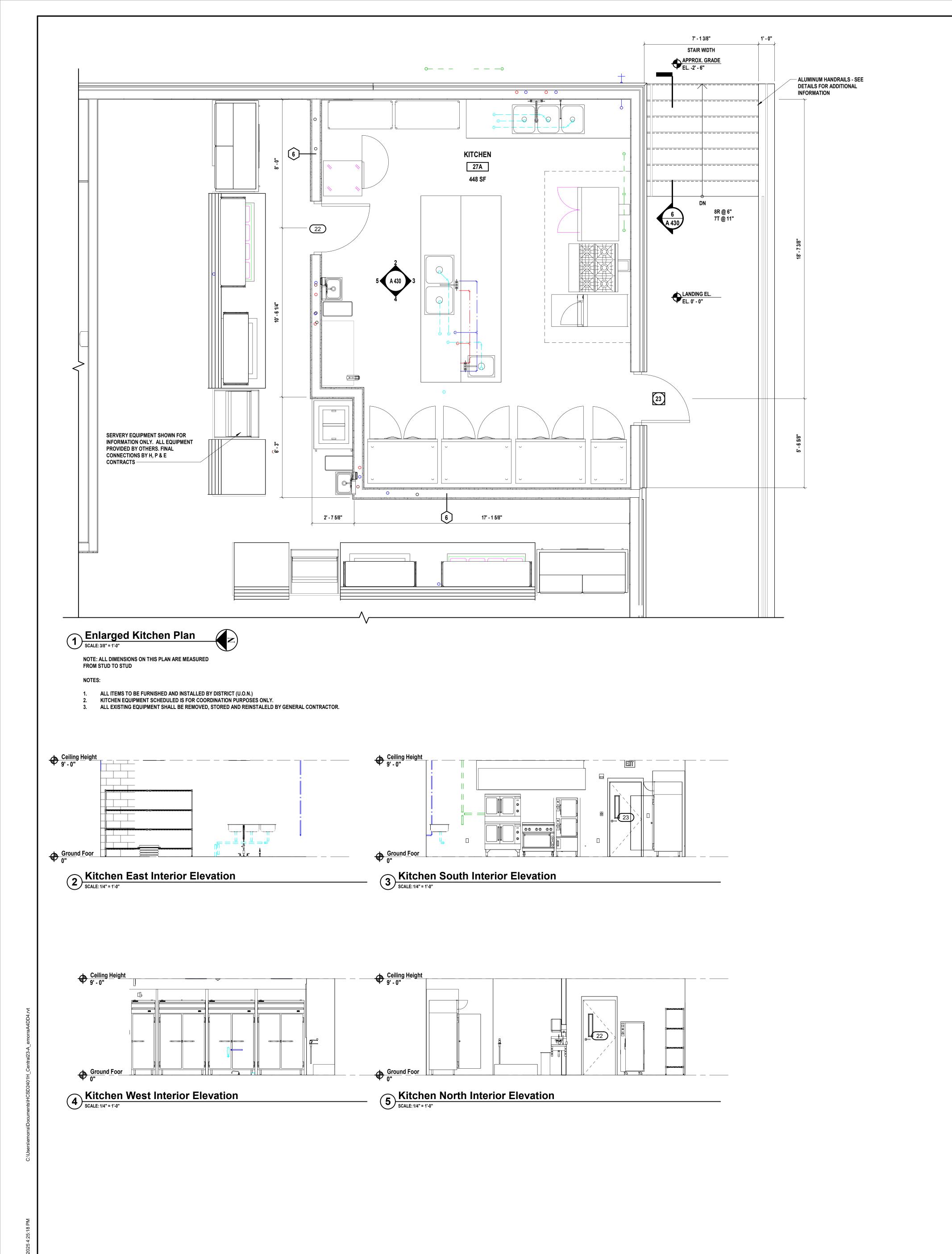
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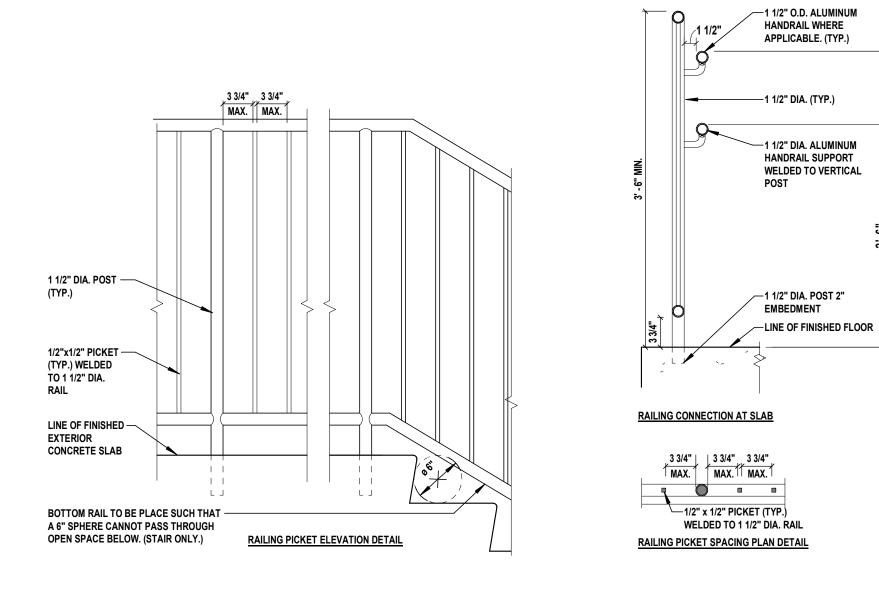
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EET TITLE

ENLARGED CLASSROOM AND MAIN ENTRANCE PLAN

A 420.00





Railing Detail at Concrete Stair/Landing

SCALE: 1" = 1'-0"



Harrison Central School District

Building Addition at the Purchase Elementary School



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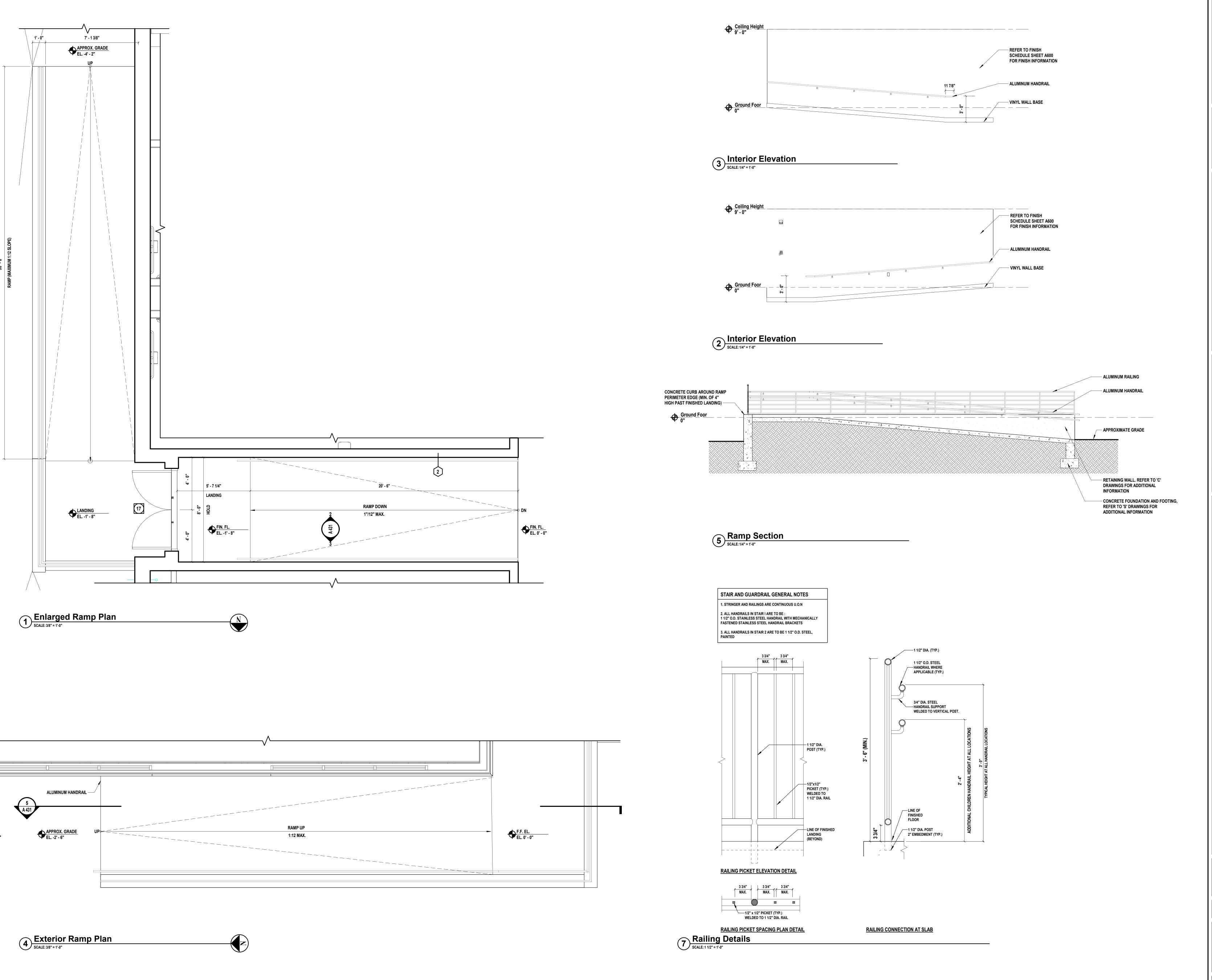
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KEY PLAN

ENLARGED KITCHEN PLAN

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CHECKED BY:

REVIEWED BY:

KK/FGM

FGM

KK

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Building Addition at the Purchase Elementary School



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SHEET TITL

ENLARGED RAMP PLANS AND DETAILS

A 431.00

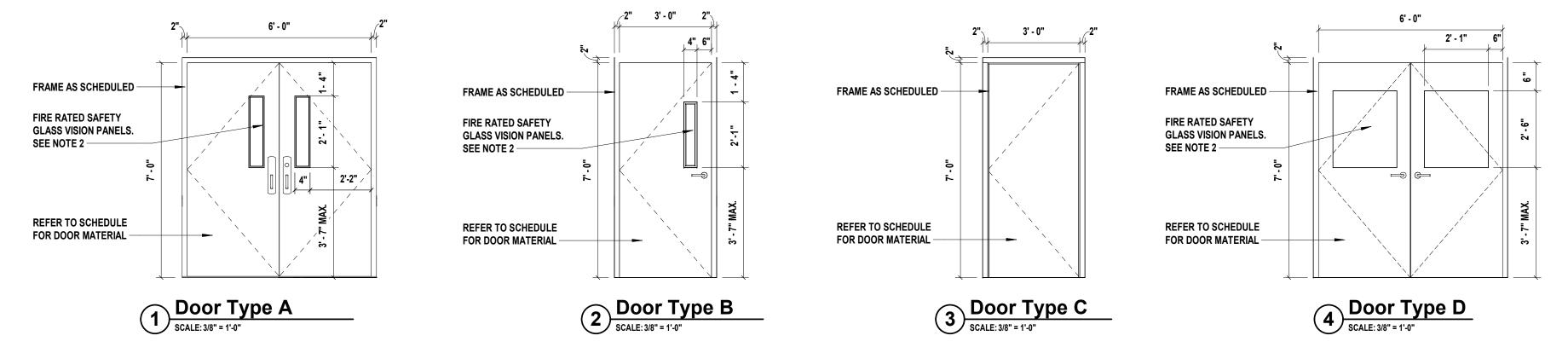
										DO	OOR SCH	HEDULE							
	FROM F	ROOM	TO ROO	M	DOOR SIZE		DOOR		FRAN	лE		DETAILS							
DOOR NO.	NAME	NUMBER	NAME	NUMBER	THICKNESS	DOOR TYPE	DOOR Material	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SADDLE	FIRE RATING	HARDWARE SET	SECURITY ACCESS	DOOR SIGNAGE	PANIC HARDWARE	COMMENTS
01	VESTIBULE	V-01	EXTERIOR	-	1 3/4"	Α	FRP	FF	ALUM	FF	H5	J5	S1	-	HS6A	Х		Х	
02	CORRIDOR	C-01	EXTERIOR	-	1 3/4"	Α	FRP	FF	ALUM	FF	H5	J5	S1	-	HS6	Х		Х	
03	CORRIDOR	C-01	VESTIBULE	V-01	1 3/4"	Α	WD	FF	НМ	PT	Н3	J3	FLUSH	-	HS1			Х	
04	CORRDIOR	E-1	CORRIDOR	C-01	1 3/4"	Α	WD	FF	НМ	PT	H4	J4	FLUSH	90 MIN	HS1			Х	
05	CORRDIOR	E-1	CORRIDOR	C-01	1 3/4"	Α	WD	FF	НМ	PT	H4	J4	FLUSH	90 MIN	HS1			Х	
06	CORRIDOR	C-01	SECURITY	15	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS2		Х		
07	CORRIDOR	C-01	TOILET	16	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS9		Х		
07A	CORRIDOR	C-01	ELECTRICAL	16A	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS2		Х	X	
08	CORRIDOR	C-01	EXTERIOR	-	1 3/4"	Α	FRP	FF	ALUM	FF	H1	J1	S1	45 MIN	HS6			X	
09	CORRIDOR	C-01	OT/PT	17	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		X		
10	CORRIDOR	C-01	4TH GRADE	18	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
11	CORRIDOR	C-01	4TH/5TH GRADE	19	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
12	CORRIDOR	C-01	4TH GRADE CO-TEACH	20	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
13	CORRIDOR	C-01	4TH/5TH GRADE	21	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
14	CORRIDOR	C-01	5TH GRADE	22	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
15	CORRIDOR	C-01	4TH/5TH GRADE	23	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
16	CORRIDOR	C-01	5TH GRADE	24	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
17	CORRIDOR	C-01	EXTERIOR	-	1 3/4"	Α	FRP	FF	ALUM	FF	H1	J1	FLUSH	-	HS6	Х		X	
18	CORRIDOR	C-01	RESOURCE ROOM	25	1 1/2"	В	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS5		Х		
19	CORRIDOR	C-02	CUSTODIAL	-	1 1/2"	С	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS2		Х		
20	CORRIDOR	C-02	GIRL'S TOILET	26A	1 1/2"	С	WD	FF	НМ	PT	Н3	J3	FLUSH	45 MIN	HS8		Х		
21	CORRIDOR	C-02	BOY'S TOILET	26B	1 1/2"	С	WD	FF	НМ	PT	Н3	J3	FLUSH	45 MIN	HS8		Х		
22	CAFETERIA	27	KITCHEN	27A	1 3/4"	В	WD	FF	НМ	PT	H2	J2	FLUSH	90 MIN	HS5		Х	X	
23	KITCHEN	27A	EXTERIOR	-	1 3/4"	В	FRP	FF	ALUM	FF	H1	J1	S1	45 MIN	HS7A	Х		X	
24	CAFETERIA	27	EXTERIOR	-	1 3/4"	В	FRP	FF	ALUM	FF	H1	J1	S1	-	HS6	Х		X	
25	CAFETERIA	27	EXTERIOR	-	1 3/4"	Α	FRP	FF	ALUM	FF	H1	J1	S1	-	HS6	Х		X	
26	CAFETERIA	27	CORRIDOR	C-02	1 3/4"	D	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS1			X	
27	CORRIDOR	C-02	CORRIDOR	C-01	1 3/4"	D	WD	FF	НМ	PT	H2	J2	FLUSH	45 MIN	HS1			X	

GENERAL DOOR NOTES:

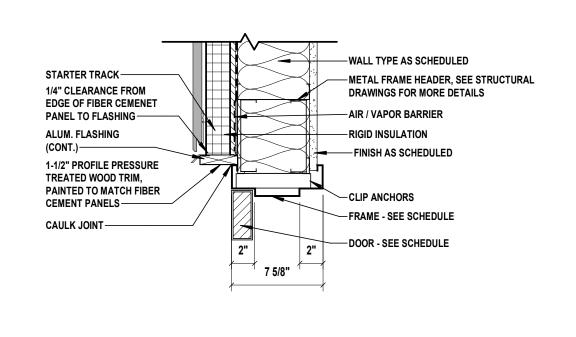
- . ALL DOOR FRAMES TO BE SET 4" FROM FINISHED WALL SURFACE UNLESS DIMENSIONED OR NOTED
- 2. ALL DOORS FROM PLACES OF ASSEMBLY (ROOMS WITH GREATER THAN 50 PERSONS) SEE CODE PLAN, ARE TO RECIEVE PANIC DEVICE HARDWARE
- 3. ALL INTERIOR DOORS SHALL HAVE A 1/2" UNDERCUT. UNDERCUT SHALL BE MEASURED FROM THE TOP
- I. EVERY ROOM OR SPACE USED AS AN ASSEMBLY OCCUPANCY, SHALL HAVE THE OCCUPANT LOAD OF THE ROOM/SPACE CONSICUOUSLY POSTED NEAR THE MAIN EXIT OF THE ROOM/SPACE

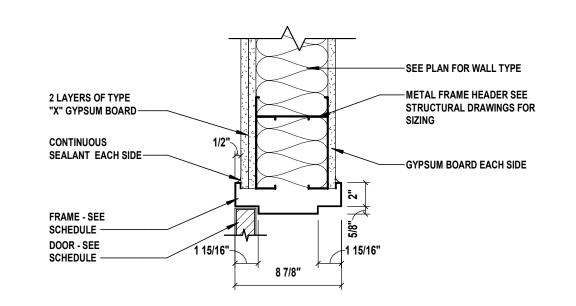
OF THE SADDLE. CONTRACTOR TO VERIFY IN FIELD AND COORDINATE WITH FINISHES

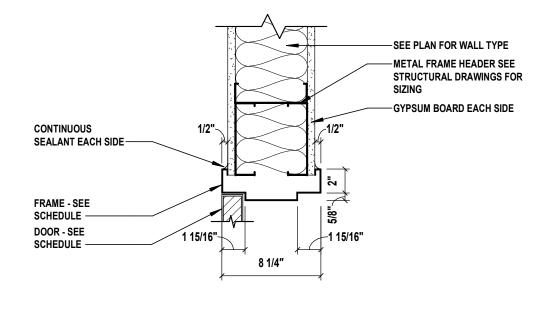
- 5. TACTILE EXIT SIGNAGE SHALL BE PROVIDED ADJACENT TO EACH DOOR SERVING AN EXIT STARIWAY, EXIT PASSAGEWAY OR EXIT DISCHARGE AS DTERMINED BY THE FIRE MARSHALL/AUTHORUTY HAVING
- 6. ALL DOORS WITHIN A MASONRY WALL SHALL HAVE A 4" HEAD
- '. OWNER WILL BE INSTALLING ACCESS CONTROL WIRING AT ALL DOORS RECIVEING ELECTRONIC STRIKES. CONTRACTOR TO PROVIDE CONDUIT AND DRAG LINE FROM STRIKE ABOVE ACCOUSTICAL **CEILING SYSTEM**

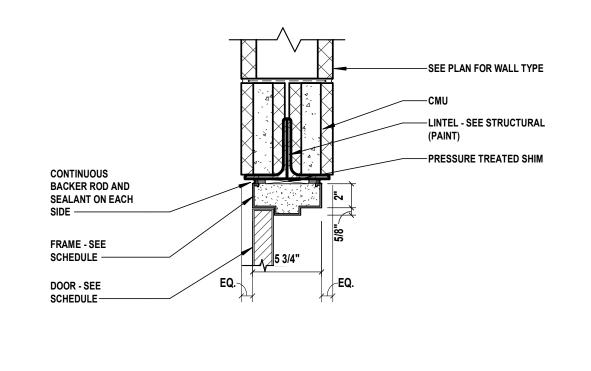


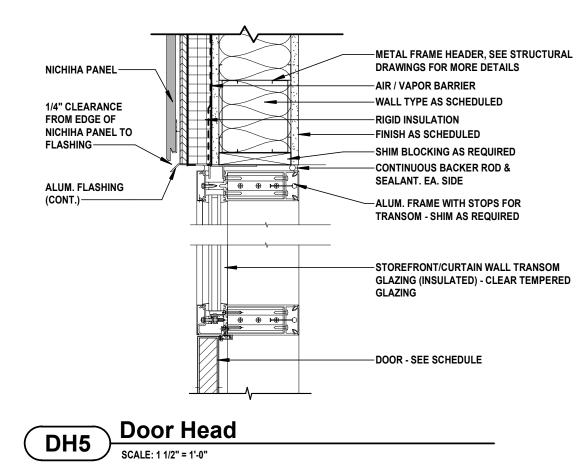
INTERIOR GLAZING SHALL COMPLY WITH NFPA 80 OR ASTM E119 FOR ALL DOORS THAT ARE NOT SET IN A FIRE RATED WALL, IMPACT SAFETY RATED GLASS SHALL BE REQUIRED IN LIEU OF FIRE RATED SAFETY GLASS

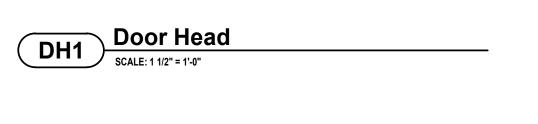












-FIBER CEMENT PANEL

BACKER & SEALANT

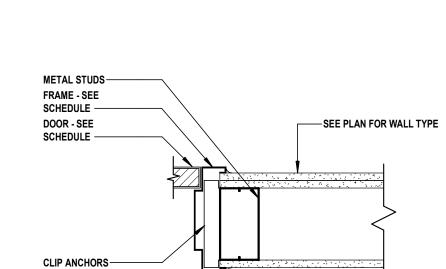
-RIGID INSULATION

——AIR / VAPOR BARRIER

--- WALL TYPE AS

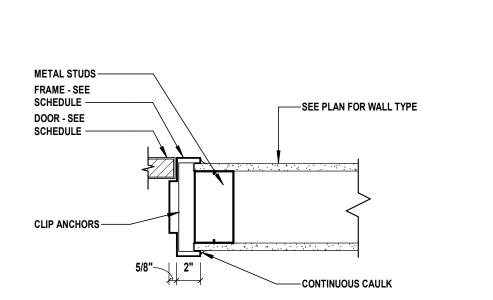
SCHEDULED

SINGLE FLANGE SEALANT



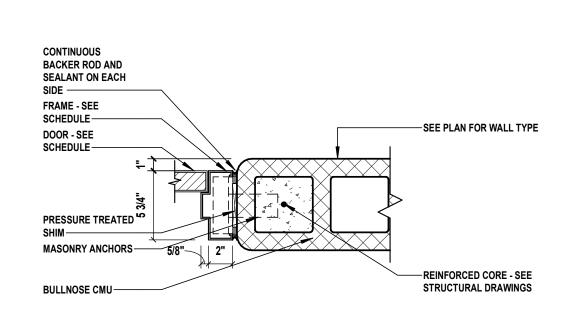
DH2 Door Head

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



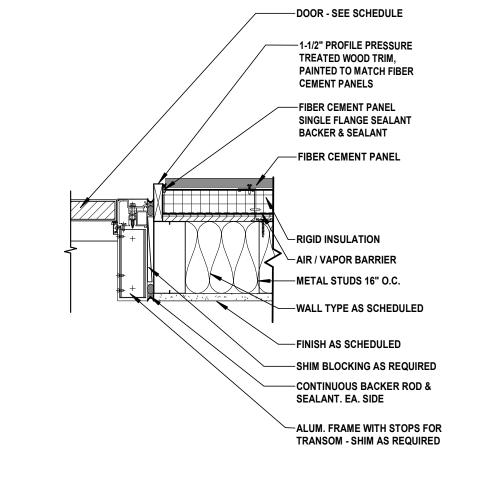
DH3 Door Head

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



Door Head

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



(DJ1)	Door Jamb
031	SCALE: 1 1/2" = 1'-0"

1-1/2" PROFILE PRESSURE

PAINTED TO MATCH FIBER

TREATED WOOD TRIM,

CEMENT PANELS—

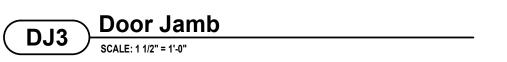
CAULK JOINT-

DOOR - SEE SCHEDULE-

CLIP ANCHORS-

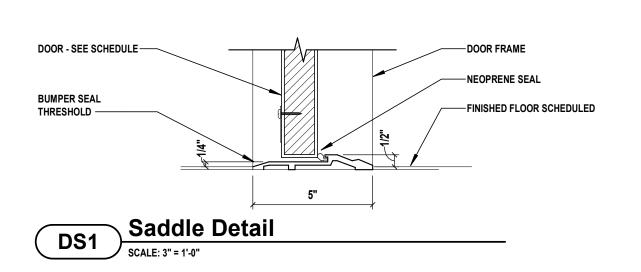
FRAME - SEE SCHEDULE—

DJ2	Door Jamb
DJZ	SCALE: 1 1/2" = 1'-0"



√ Door Jamb SCALE: 1 1/2" = 1'-0"





Building Addition at the Purchase Elementary School

Harrison Central

School District

538 Broad Hollow Road, 4th Floor East

Melville, NY 11747

631.756.8000 • www.h2m.com NY Architecture & Landscape Architecture: No Certificate Required

NY Engineering Certificate of Authorization No.: 0018178

1/23/25 ISSUED FOR BID 8/16/24 SED SUBMISSION

SAVERIO J. BELFIORE, R.A. Exp. Date NY PROFESSIONAL ARCHITECT Lic. No. 033063

HCSD2401H

Checker

JANUARY 2025 AS SHOWN

MARK DATE

DESCRIPTION



2995 Purchase Street Purchase, New York 10577

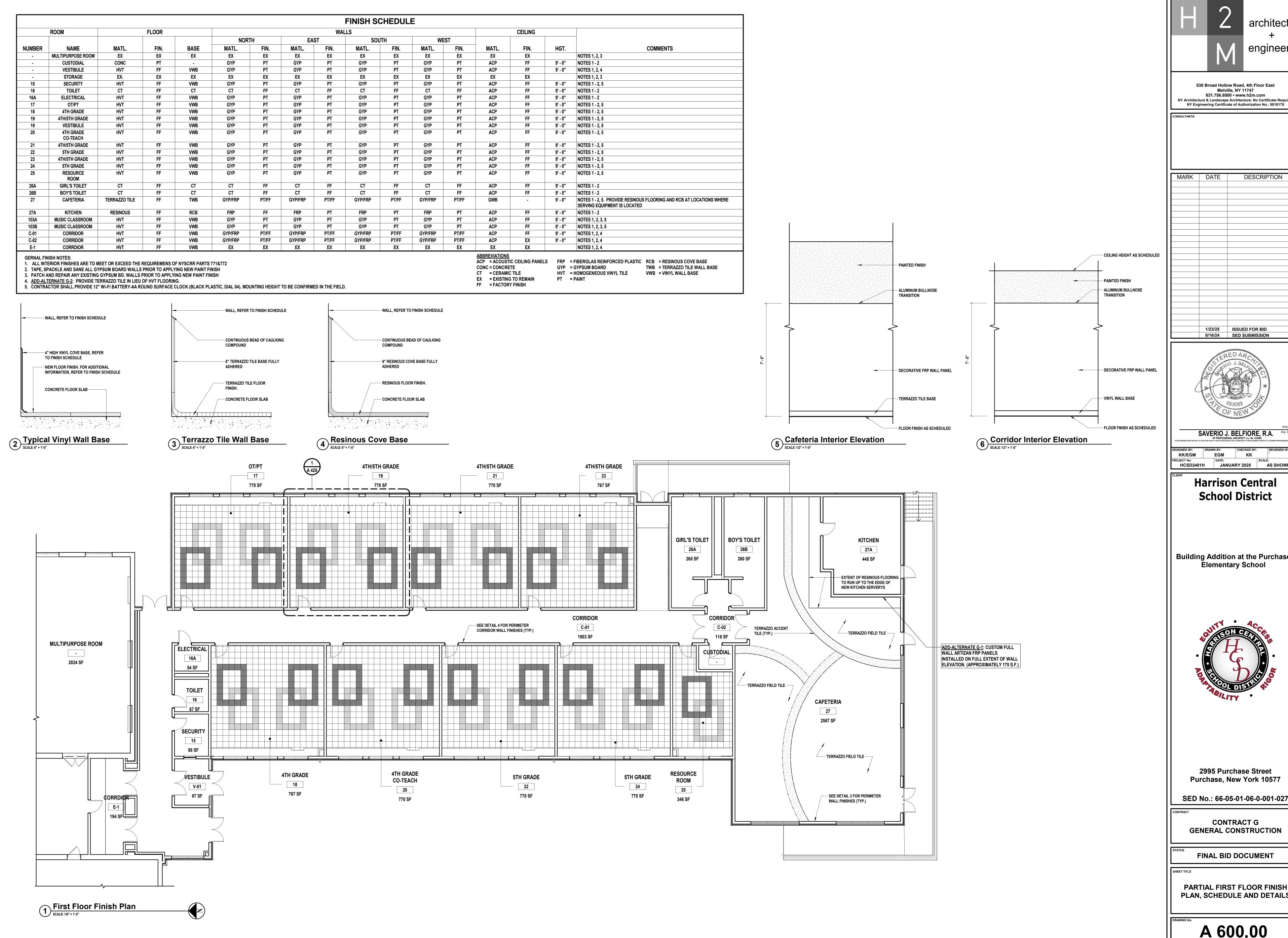
SED No.: 66-05-01-06-0-001-027

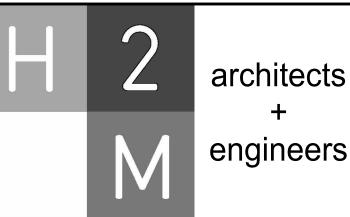
CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

DOOR SCHEDULE AND DETAILS

A 520.00





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 	2 - 2 - 3 - 1 - 1 - 1 - 1 - 1
1/23/25	ISSUED FOR BID

DESCRIPTION



HCSD2401H JANUARY 2025 AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

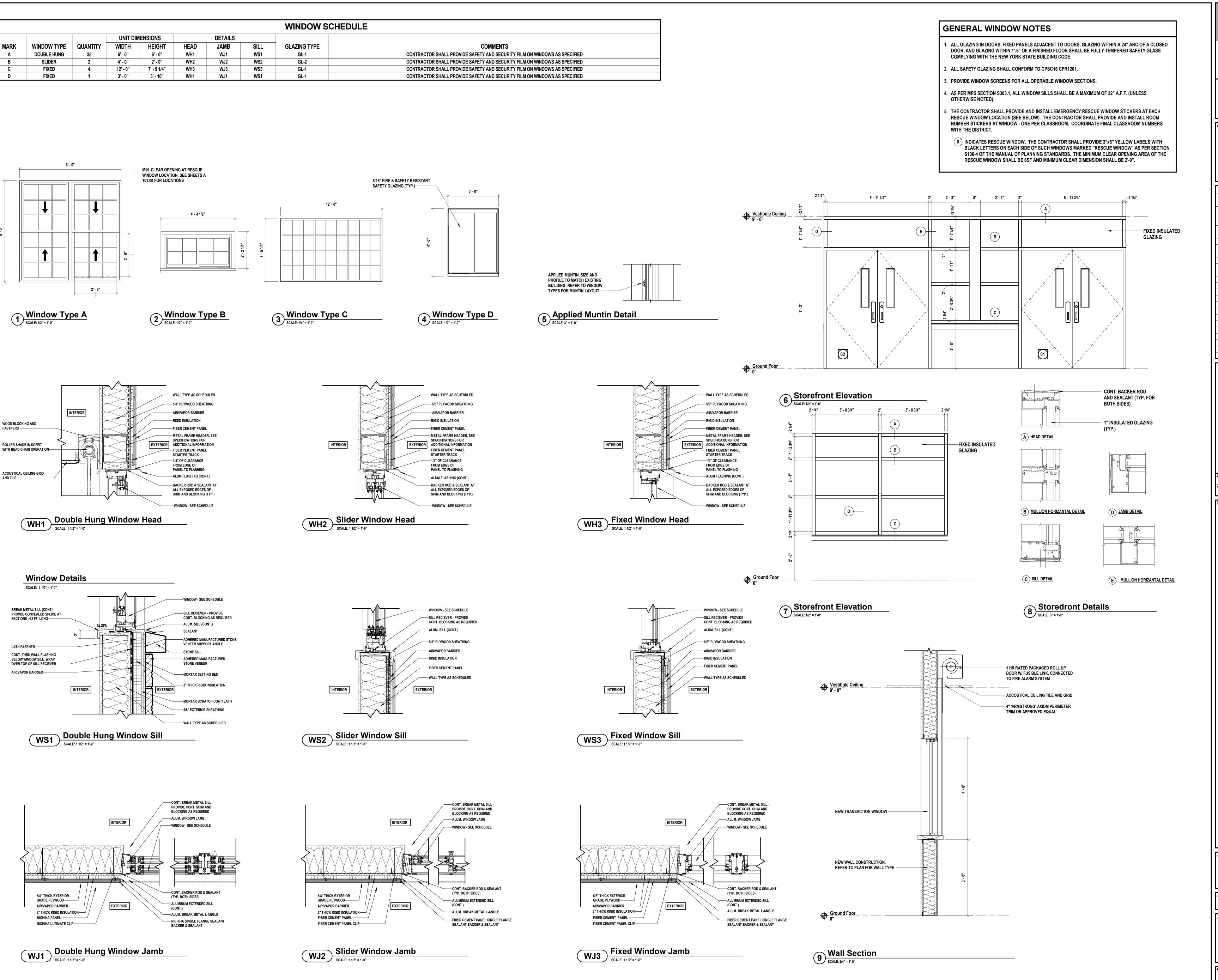
SED No.: 66-05-01-06-0-001-027

CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

PARTIAL FIRST FLOOR FINISH PLAN, SCHEDULE AND DETAILS

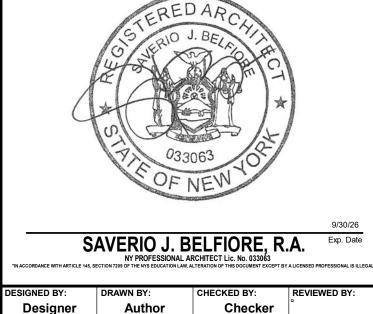
A 600.00



architects

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DESCRIPTION 1/23/25 ISSUED FOR BID 8/16/24 SED SUBMISSION



HCSD2401H

Harrison Central School District

JANUARY 2025 AS SHOWN

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

WINDOW SCHEDULE

A 610.00

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE THE PROJECT RESIDES IN AND ALL OTHER AUTHORITIES HAVING JURISDICTION. SHOULD THE GENERAL CONTRACTOR DISCOVER ANY DISCREPANCIES OR AMBIGUITIES OF DATA THAT CAUSE DOUBT AS TO THE MEANING OF ANY DRAWING MATERIAL OR SPECIFICATIONS, THE G.C. SHALL NOTIFY elite | studio e
- AND REQUEST CLARIFICATION PRIOR TO PROCEEDING. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING AND/OR PAYING FOR ALL PERMITS, CERTIFICATES, GUARANTEES ETC., AS ARE REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION, AND DELIVER THESE TO THE DWNER UPON COMPLETION OF THE WORK. THE G.C. SHALL ARRANGE AND OORDINATE INSPECTION OF THE WORK BY BUILDING OFFICIALS. THE G.C. SHALL BE HELD RESPONSIBLE FOR ANY VIOLATIONS ARISING FROM LACK OR PERMIT[S],
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT.
- ALL WORKERS EMPLOYED BY THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR EMPLOYED BY THE G.C. SHALL BE SKILLED AT THE WORK TO WHICH THEY ARE ASSIGNED. ALL TRADES MUST PROVIDE EVIDENCE OF WORKERS COMPENSATION AND LIABILITY INSURANCE IN FORCE.
- ALL MATERIAL STORED ON THE SITE SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE, WEATHER, AND THEFT. FINISHED WORK IS TO BE PROTECTED
 AGAINST DAMAGE FROM OTHER WORK IN PROGRESS. REPAIR AND/OR REPLACEMENT OF DAMAGED WORK OR MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AT NO COST TO THE OWNER.
- THE PROJECT SITE IS TO BE KEPT REASONABLY CLEAN AND ALL LOOSE TRASH IS TO BE CONTAINED IN AN ON-SITE DUMPSTER WHICH SHALL BE EMPTIED WHEN
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND DETAILS IN THE FIELD.
- . NO CHANGES TO DRAWINGS, DETAILS AND/OR SPECIFICATIONS SHALL BE MADE BY THE GENERAL CONTRACTOR WITHOUT THE EXPRESSED CONSENT FROM
- O. THE GENERAL CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR THE SAFETY
- 1. elite | studio e SHALL HAVE NO CONTROL OVER AND SHALL HAVE NO RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES USED BY THE G.C. AND/OR ANY SUBCONTRACTORS EMPLOYED
- BY THE G.C. OR THE OWNER. 2. elite | studio e HAS NO RESPONSIBILITY FOR ANY ACTIONS OR MISSIONS OF THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS OR THE
- FAILURE TO PERFORM WORK ACCORDING TO THE CONTRACT DOCUMENTS. 13. ALL ITEMS/NOTES ON DRAWINGS OF THE ARCHITECT OR THE ENGINEER[S] ARE
- 14. ALL FILING, PERMITS, AND INSPECTIONS ARE THE RESPONSIBILITY OF THE ARCHITECT/ GENERAL CONTRACTOR AS APPROPRIATE EXCEPT FOR THE FIRE SUPPRESSION SYSTEM AND HEALTH DEPARTMENT. FIRE SUPPRESSION SYSTEM FILING IS BY FIRE SUPPRESSION SYSTEM CONTRACTOR & HEALTH DEPARTMENT PERMIT IS BY FOODSERVICE OPERATOR.
- 5. ALL INTERIOR WALL, EXTERIOR WALL, FLOOR, AND ROOF PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL PENETRATIONS
- SHALL BE PROPERLY SEALED BY THE PARTY MAKING SUCH PENETRATIONS 16. IT IS THE RESPONSIBILITY OF THE ARCHITECT/MECHANICAL ENGINEER TO
- DETERMINE IF ADEQUATE VENTILATION EXISTS FOR FOODSERVICE REFRIGERATION COMPONENTS. 7. IT IS THE RESPONSIBILITY OF ARCHITECT/STRUCTURAL ENGINEER TO ENSURE
- THAT FOODSERVICE EQUIPMENT WEIGHT LOADS CAN BE SUPPORTED BY BUILDING STRUCTURE. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL ROOF MOUNTED, CEILING-HUNG, AND WALL-HUNG FOODSERVICE EQUIPMENT.
- ASBESTOS TESTING AND ABATEMENT SHALL BE THE RESPONSIBILITY OF OTHERS UNLESS OTHERWISE INDICATED. 19. FOODSERVICE EQUIPMENT CUT BOOK IS PART OF THE CONTRACT DOCUMENTS.
- PLEASE CONTACT elite | studio e IF NOT PROVIDED WITH DRAWING SET. 20. ROUGH-IN INFORMATION IS FOR FOODSERVICE EQUIPMENT ONLY AND MUST BE USED IN CONJUNCTION WITH THE PROJECT'S FINAL CONTRACT DOCUMENTS.

ELECTRICAL NOTES

- THESE DRAWINGS SHOW ELECTRICAL REQUIREMENTS FOR FOODSERVICE ONLY UNLESS OTHERWISE ILLUSTRATED]. FOR ALL OTHER REQUIREMENTS SEE
- ARCHITECTURAL/ENGINEERING DRAWINGS. ALL PREVAILING LOCAL ELECTRICAL CODES TO BE ADHERED TO.
- VITCHES, RELAYS, ELECTRICAL WHIPS, ETC. ELECTRICIAN TO PROVIDE CORD AND PLUG AS REQUIRED OR MAKE DIRECT CONNECTION TO EACH ELECTRICAL ITEM. ELECTRICIAN TO FURNISH AND INSTALL CONDUITS AND SLEEVES FOR WALK-IN BOX
- 5. ELECTRICIAN TO SEAL ALL ELECTRICAL PENETRATIONS INTO WALK-IN BOXES. [IF APPLICABLE]

OR 'BX'. SEAL TIGHT IS THE PREFERRED METHOD WHENEVER POSSIBLE

- ALL WIRING TO BE CONCEALED IN PROTECTIVE OUTER CASING SUCH AS 'SEAL TIGHT'
- ALL DIMENSIONS ARE TO CENTERLINE OF ELECTRICAL BOXES FROM FINISHED WALLS, COLUMNS, OR FLOORS.
- ELECTRICIAN TO FURNISH AND INSTALL ALARM SYSTEM IF REQUIRED BY LOCAL CODES AND SHALL ALSO BE RESPONSIBLE TO TIE IN FIRE SUPPRESSION SYSTEMS TO ALARM SYSTEM. [WHERE APPLICABLE]
- ELECTRICAL ENGINEER MUST VERIFY THAT ADEQUATE ELECTRICAL POWER WILL STILL BE PROVIDED FOR ALL FOODSERVICE ITEMS IDENTIFIED AS EXISTING TO REMAIN OR EXISTING/RELOCATED.

O. FIRE SUPPRESSION SYSTEM IWHERE APPLICABLE! ELECTRICAL MICRO-SWITCH

SUPPLIED BY FIRE SUPPRESSION SYSTEM CONTRACTOR. MICRO-SWITCH TO BE

- INSTALLED BY ELECTRICIAN TO SHUT OFF ALL COOKING EQUIPMENT IN CASE OF FIRE.
- ELECTRICIAN TO SUPPLY & INSTALL SHUNT-TRIP BREAKERS TO ENSURE ELECTRICITY IS CUT OFF TO ANY SERVICES UNDER THE HOOD IN THE EVENT OF A FIRE.
- 2. ELECTRICIAN TO ENSURE UPON FIRE SUPPRESSION SYSTEM ACTIVATION THAT THE EXHAUST FAN COMES ON AT 100% & MAKE-UP AIR FAN SHUTS DOWN UNLESS OTHERWISE DIRECTED BY LOCAL CODE.
- 13. ALL FINAL CONNECTION DIMENSIONS TO EQUIPMENT ARE TO BE VERIFIED BY ELECTRICIAN.
- 4. REMOTE CONTROL PANEL FOR EXHAUST HOOD LIGHTS TO BE FURNISHED BY F.S.E.C AND INSTALLED BY ELECTRICIAN.

5. ELECTRICIAN SHALL BE RESPONSIBLE FOR WIRING & MOUNTING OF ALL REMOTE

CONTROL WIRING AS REQUIRED TO WALK-IN COMPONENTS. THIS INCLUDES, BUT IS

- SWITCHES/BALLASTS FOR FOODSERVICE EQUIPMENT AND/OR CASEWORK, LOCATION TO BE COORDINATED WITH F.S.E.C. 16. ELECTRICIAN TO VERIFY ELECTRICAL REQUIREMENTS FOR ALL NEW OR
- EXISTING/RELOCATED FOODSERVICE EQUIPMENT SUPPLIED BY "OWNER", "VENDOR", "F.S. OPERATOR" OR BY "OTHERS". . ELECTRICIAN TO PROVIDE ALL FINAL CONNECTIONS AND INTERCONNECTIONS,
- NOT LIMITED TO, TIME CLOCK, DOOR HEATERS, LIGHTS, AND DRAIN LINE HEATER. 8. ELECTRICIAN TO CONFIRM THAT ALL elite | studio e SPECIFIED ELECTRICAL FIXTURES MEET LOCAL CODE REQUIREMENTS.
- 19. ELECTRICAL LOAD PANELS FOR FOOD SERVICE EQUIPMENT: ELECTRICIAN TO MAKE INTERCONNECTIONS BETWEEN EQUIPMENT AND JUNCTION BOXES/LOAD PANELS AS REQUIRED. ELECTRICIAN TO MAKE ANY CONNECTIONS REQUIRED IF ANY COUNTERS

ARE SHIPPED IN SECTIONS.

- 20. ELECTRICIAN TO FURNISH DEDICATED CIRCUITS FOR ALL FOODSERVICE EQUIPMENT ITEMS. [UNLESS OTHERWISE NOTED]. 21. ALL NEW AND/OR EXISTING FOODSERVICE EQUIPMENT ITEMS SHOWN SHALL UTILIZE [WHEREVER FEASIBLE] EXISTING ELECTRICAL POWER SUPPLY LINES, JUNCTION
- BOXES AND/OR RECEPTACLE OUTLETS. [UNLESS OTHERWISE NOTED] 22. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL REQUIREMENTS FOR RELOCATING EQUIPMENT & UPGRADE AND/OR MODIFY SERVICE AS REQUIRED.
- 3. ELECTRICIAN TO PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS TO ALL EQUIPMENT,
- INCLUDING HEAT LAMPS TO CONTROL BOX AND PENDANT LIGHTS. 24. ELECTRICIAN TO FURNISH ALL TRIM ACCESSORIES, DISCONNECTS, CONTRACTORS,
- 25. ELECTRICIAN TO PROVIDE CORD AND PLUG AS REQUIRED OR MAKE DIRECT CONNECTION

SWITCHES, RELAYS, ELECTRICAL WHIPS, ETC.

- 26. NATIONAL ELECTRICAL CODE #210.8[B][2] REQUIRES THAT ALL 15 AMP & 20 AMP, 120 VOLT RECEPTACLES IN NON-DWELLING UNITS (COMMERCIAL & INDUSTRIAL), KITCHENS, SERVING AREAS, AND/OR PANTRIES BE GFCI PROTECTED (WHETHER OR NOT THE RECEPTACLE SERVES COUNTERTOP AREAS). ELECTRICAL ENGINEER AND/OR ELECTRICAL CONTRACTOR TO ENSURE ALL APPLICABLE RECEPTACLES AND/OR CIRCUITS SHOWN WITHIN THESE FOOD SERVICE DESIGN DRAWINGS ARE PROPERLY SPECIFIED,
- FURNISHED, & INSTALLED TO COMPLY WITH THIS CODE. 27. ELECTRICIAN TO PROVIDE THERMAL OVERLOAD PROTECTORS FOR ALL FAN ON/OFF SWITCHES AND STARTERS AS PER LOCAL CODE.

PLUMBING NOTES

THESE DRAWINGS SHOW PLUMBING REQUIREMENTS FOR FOODSERVICE EQUIPMENT ONLY (UNLESS OTHERWISE ILLUSTRATED). FOR ALL OTHER
REQUIREMENTS, SUCH AS TOILET FACILITIES, AREA FLOOR DRAINS OTHER THAN

. ALL PREVAILING LOCAL PLUMBING CODES TO BE ADHERED TO.

- PLUMBER TO PROVIDE ALL ROUGH-INS AND FINAL CONNECTIONS TO EQUIPMENT. PLUMBER TO FURNISH ALL TRIM ACCESSORIES. VALVE PRESSURE REGULATORS. P-TRAPS, GREASE TRAPS, DRAIN LINES AND BACK FLOW PREVENTION SYSTEM
- PLUMBER TO PROPERLY SIZE, FURNISH, AND INSTALL ALL STEAM PRESSURE REDUCING VALVES (AS REQUIRED) FOR ALL WAREWASHING MACHINES AND RELATED EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES. FINAL LOCATION TO BE COORDINATED BETWEEN
- THE F.S.E.C. AND THE PLUMBER **PRIOR TO INSTALLATION** TO AVOID ANY CONFLICTS ON OR NEAR EQUIPMENT. PLUMBER TO VERIFY SIZE, FURNISH AND INSTALL GREASE TRAPS, FLOOR SINKS, AND FLOOR DRAINS AS REQUIRED BY LOCAL CODE, IF PLANS ILLUSTRATE
- DIFFERENCES FROM LOCAL CODE PLUMBER MUST NOTIFY elite | studio e. ALL DIMENSIONS ARE FROM FINISHED FLOOR, WALLS, OR COLUMNS TO CENTERLINES OF PLUMBING FIXTURES. ALLOWANCE MUST BE MADE FOR ALL VALVES, TRAPS, AND FITTINGS BETWEEN OUTLETS ON FIXTURES
- AND ROUGH-IN CONNECTIONS. ALL INDIRECT WASTE LINES SHALL BE EXTENDED TO FLOOR DRAINS AND/OR FLOOR SINKS &FLOOR DRAINS SHALL
- BE SIZED ELIBNISHED AND INSTALLED BY PLLIMBER PROVIDE AIR GAP ABOVE HIGHEST POINT OF FLOOR SINK OR FLOOR DRAIN. ALL FLOOR DRAINS AND/OR FLOOR SINKS SHOWN ARE DEEMED NECESSARY FOR
- DDSERVICE. AREA FLOOR DRAINS FOR GENERAL SANITATION SHALL BE FURNISHED AND INSTALLED BY PLUMBER. MECHANICALLY OPERATED GAS SHUT-OFF VALVE. FOR FIRE SUPPRESSION SYSTEM IIF APPLICABLE) WILL BE FURNISHED BY FIRE SUPPRESSION SYSTEM CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. INSTALLATION TO BE IN MAIN

COOKING GAS LINE [ACCESS REQUIRED] TO SHUT OFF ALL COOKING EQUIPMENT IN

- 10. ALL FINAL CONNECTION DIMENSIONS TO EQUIPMENT ARE TO BE VERIFIED BY PLUMBER.
- ALL SHUT-OFF VALVES FOR PLUMBING ITEMS SHALL BE FURNISHED BY PLUMBER [UNLESS OTHERWISE NOTED]. THIS INCLUDES ISOLATION VALVES FOR 2 PLLIMBER MUST PROVIDE 120E HOT WATER AT ALL FOOD PREPARATION AND
- WARE-WASHING SINKS/MACHINES. [UNLESS OTHERWISE NOTED BY LOCAL CODE] 3. PLUMBER MUST SUPPLY OR REDUCE INCOMING HOT WATER TO 105F AT ALL HAND WASHING SINKS. [UNLESS OTHERWISE NOTED BY LOCAL CODE]
- 4. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL REQUIREMENTS FOR RELOCATED EQUIPMENT & UPGRADE AND/OR MODIFY SERVICES AS REQUIRED. 15 ALL NEW AND /OR EXISTING FOODSERVICE EQUIPMENT ITEMS SHOWN ON THESE [WATER/GAS/STEAM SUPPLY/DRAINAGE/RETURN] LINES. [UNLESS OTHERWISE NOTED]
- 16. PLUMBER TO SEAL ALL PENETRATIONS MADE TO WALK-IN BOXES. [IF APPLICABLE] OPEN AIR SCREEN MERCHANDISERS SHOULD BE PIPED TO FLOOR DRAINS.
- 18. PLUMBER TO VERIFY PLUMBING REQUIREMENTS FOR ALL NEW OR EXISTING/RELOCATED FOODSERVICE EQUIPMENT SUPPLIED BY "OWNER", "VENDOR", "F.S. OPERATOR" OR "BY OTHERS".

[WHEREVER POSSIBLE]

- 19. PLUMBER TO FURNISH AND INSTALL HOT AND COLD WATER LINE CHECK VALVES AT ALL SPRAY SYSTEMS UNIT MIXING VALVES UNLESS OTHERWISE NOTED.
- COMMERCIAL KITCHEN VENTILATION (CKV)/HVAC NOTES ALL DUCT WORK SIZING AND ROUTING SHALL BE DETERMINED BY MECHANICAL
- ALL EXHAUST AND/OR SUPPLY FAN SIZING, PROVIDING & INSTALLING SHALL BE THE RESPONSIBILITY OF OTHERS. [UNLESS OTHERWISE NOTED]
- BALANCING OF BUILDING HVAC SYSTEM SHALL BE PERFORMED BY HVAC CONTRACTOR PRIOR TO OCCUPANCY. ALL LOCATIONS OF NEW HVAC SYSTEM DIFFUSERS AND RETURNS SHALL BE VERIFIED BY elite I studio e SINCE IMPROPER LOCATIONS CAN AFFECT THE OPERATION OF FOODSERVICE EQUIPMENT. elite | studio e CANNOT BE HELD
- IMPROPER VENTILATION OUTLET/INLET LOCATIONS. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL C.K.V. EXHAUST HOODS, DUCTWORK AND FANS NOTED AS EXISTING TO REMAIN ARE FUNCTIONING PROPERLY PRIOR TO OCCUPANCY, MECHANICAL CONTRACTOR/ENGINEER SHALL ALSO CONFIRM THAT CFM'S AND STATIC PRESSURE ARE ADEQÚATE FOR NEW

RESPONSIBLE FOR EQUIPMENT MALFUNCTION OR LOSS OF PRODUCT DUE TO

- FURNISHING AND INSTALLING OF ROOF CURBS FOR KITCHEN VENTILATION EXHAUST FANS AND MAKE-UP AIR UNITS SHALL BE THE RESPONSIBILITY OF OTHERS UNLESS
- ALL CONTROL WIRING RELATED TO KITCHEN VENTILATION SHALL BE FURNISHED & INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL INTER-WIRING & FINAL CONNECTIONS SHALL BE BY THE ELECTRICAL CONTRACTOR.
- UNI-STRUT, THREADED ROD, AND ALL OTHER ASSOCIATED MATERIAL AND HARDWARE ARE TO BE SUPPLIED AND INSTALLED BY COMMERCIAL KITCHEN VENTILATION CONTRACTOR FOR HANGING OF HOOD COMPONENTS.
- HVAC ROOM DIFFUSERS SHALL NOT BE PLACED WITHIN 6' 0" OF EXHAUST HOODS. FINAL DUCTWORK SHOP DRAWINGS WITH THE EXHAUST FAN MANUFACTURER FOR FINAL SELECTION & SPECIFICATIONS OF THE EXHAUST FAN(S), MAKE UP AIR FAN(S),
- AND/OR CONDENSATE FAN(S). . FINAL APPROVAL OF SPECIFICATIONS FOR ANY EXHAUST FANS, MAKE UP AIR UNITS, AND/OR CONDENSATE FANS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL ENGINEER.
- FOODSERVICE FIRE SUPPRESSION SYSTEM NOTES ELECTRICIAN TO PROVIDE THE FOLLOWING CIRCUIT AT LOCATION OF FIRE SUPPRESSION SYSTEM: 1.1 JB. AT 20 AMPS w/ 24 HOUR POWER.
- 2.] ELECTRICIAN TO WIRE TO BUILDING FIRE ALARM SYSTEM AS REQUIRED. IT IS THE RESPONSIBILITY OF THE ELECTRICIAN/PLUMBER TO ENSURE THE FOLLOWING OCCURS UPON DISCHARGE/ACTIVATION OF FOODSERVICE FIRE
- A. ALL SUPPLIES FEEDING ALL FOODSERVICE EQUIPMENT UNDER HOOD SHALL BE
- SHUT DOWN. [GAS & ELECTRIC] B. ALL MAKE-UP AIR FANS SHALL BE SHUT DOWN. [AS PER LOCAL CODE]
- C. ALL EXHAUST FANS SHALL TURN ON. (AS PER LOCAL CODE) D. BUILDING FIRE ALARM SYSTEM WILL ACTIVATE AS REQUIRED.
- ALL DRAWINGS, FILING, PERMITS AND TESTING SHALL BE THE RESPONSIBILITY OF FIRE SUPPRESSION CONTRACTOR.
- ELECTRICIAN TO FURNISH & INSTALL SHUNT-TRIP BREAKER AS PER THE

THE FIRE SUPPRESSION CONTRACTOR SHALL PROPERLY SIZE AND FURNISH ALL GAS SOLENOID VALVES REQUIRED FOR COOKING EQUIPMENT TO THE GENERAL CONTRACTOR FOR INSTALLATION BY THE PLUMBING AND/OR ELECTRICAL

EXISTING RELOCATED/DISCARDED FOODSERVICE EQUIPMENT MECHANICAL DATA SHOWN FOR EXISTING/RELOCATED EQUIPMENT IS FOR REFERENCE ONLY. ALL EXISTING/RELOCATED EQUIPMENT, ELECTRICAL AND PLUMBING ROUGH-IN DATA MUST BE VERIFIED IN FIELD BY ELECTRICIAN AND EXISTING UTILITY CONNECTIONS REMAINING FROM DISCARDED FOODSERVICE EQUIPMENT THAT WILL NO LONGER BE REQUIRED SHALL BE CAPPED IN AN APPROPRIATE MANNER BY THE RESPECTIVE TRADES. IT SHALL BE THE RESPONSIBILITY OF THE F.S.E.C. TO SWEEP CLEAN SPACE OF REMOVED EQUIPMENT/DEBRIS AND DISPOSE OF FOR SAFETY AND FUTURE

USE OF CLEANED AREÁ

DEMOLITION NOTES

1.	ALL ITEMS [SHOWN OR NOT SHOWN] ARE EXISTING TO REMAIN UNLESS NOTED.	
2.	ELECTRICIAN/PLUMBER/HVAC CONTRACTOR TO TIE BACK SERVICES FOR ITEMS REMOVED. [AS REGUIRED BY LOCAL CODE]	
3.	WHERE POSSIBLE, ALL UTILITY SERVICES FOR EQUIPMENT TO BE REMOVED SHOULD BE RE-USED FOR NEW EQUIPMENT ITEMS BEFORE NEW SERVICES ARE INSTALLED.	

ALL UTILITY SERVICES FOR EQUIPMENT TO REMAIN OR BE REINSTALLED SHOULD BE

RECLAMATION OF FREON FOR ALL EXISTING FOODSERVICE FOLLIPMENT ITEMS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE REFRIGERATION CONTRACTOR.

RE-USED. ANY NEW SERVICES REQUIRED FOR THIS EQUIPMENT SHALL BE

THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

TRADE	ABBREVIATION	UNDER CONTRACT TO F.S.E.C.	UNDER CONTRACT TO OWNER	UNDER CONTRACT TO F.S. OPERATOR	UNDER CONTRACT TO G.C.	N/A	T.B.D
CARPENTER	CARP						
LOW VOLTAGE CONTRACTOR	COMMC						
DEMOLITION CONTRACTOR	DEMOC						
DUMPSTER PROVISION							
ELECTRICAL CONTRACTOR	EC						·
F.S. FIRE SUPPRESSION SYSTEM CONTRACTOR	FSSC						
FLOORING CONTRACTOR	FC						
FOODSERVICE EQUIPMENT CONTRACTOR	FSEC						
GENERAL CONTRACTOR	GC						
GLAZING CONTRACTOR	GLZC						
HVACC/MECHANICAL CONTRACTOR	HVAC/CKV						
LANDSCAPING CONTRACTOR	LANDC						
MASON/TILE CONTRACTOR	MC/TC						
MILLWORK CONTRACTOR	MWKC						
PAINTING CONTRACTOR	PAINT						
PLUMBING CONTRACTOR	PC						
REFRIGERATION CONTRACTOR	RC						
RIGGING CONTRACTOR	RIGC						
ROOFING CONTRACTOR	ROOFC						
SPRINKLER SYSTEM CONTRACTOR	SPLRC						
SHEET METAL CONTRACTOR	SMC						

SHEET NUMBER	SHEET NAME	INCLUDED	FUTURE
FS-100	FOODSERVICE GENERAL NOTES, LEGENDS, ABBREVIATIONS	X	
FS-200	FOODSERVICE EQUIPMENT DEMOLITION PLAN		
FS-250	FOODSERVICE EQUIPMENT DEMOLITION SCHEDULE		
FS-300	FOODSERVICE EQUIPMENT PLAN	X	
FS-350	FOODSERVICE EQUIPMENT M.E.P. SCHEDULE	Х	
FS-380	FOODSERVICE PERSPECTIVE VIEWS	Х	
FS-400	FOODSERVICE ELECTRICAL ROUGH-IN PLAN	Х	
FS-440	FOODSERVICE PLUMBING ROUGH-IN PLAN	Х	
FS-460	FOODSERVICE FLOOR PENETRATION PLAN	X	
FS-500	FOODSERVICE C.K.V. ROUGH-IN PLAN	X	
FS-520	FOODSERVICE CRITICAL DIMENSIONS PLAN	X	
FS-560	FOODSERVICE COUNTER DIMENSION & LOCATION PLAN)
FS-600	FOODSERVICE ELEVATION KEY PLAN/FINISH SCHEDULE)
FS-620	FOODSERVICE ELEVATIONS		
FS-680	FOODSERVICE TYPICAL STAINLESS STEEL DETAILS	X	
FS-682	FOODSERVICE TYPICAL STAINLESS STEEL DETAILS	X	
FS-700	FOODSERVICE EXHAUST HOOD DETAIL DRAWINGS (ACCUREX)	X	
FS-800	FOODSERVICE FOOD PROTECTOR DETAIL DRAWINGS (PREMIER)	X	
FS-801	FOODSERVICE FOOD PROTECTOR DETAIL DRAWINGS (PREMIER)	X	
FS-850	FOODSERVICE MILLWORK/STAINLESS STEEL DETAIL DRAWINGS - MANUFACTURER		
FS-920	FOODSERVICE FLOOR FINISH PLAN		
FS-940	FOODSERVICE WALL FINISH/DIMENSION PLAN		

ABBREVIATIONS ABBREVIATION DESCRIPTION ADDL AFC AFF AFS APPROX ARCH BLDG BTC CLO CMU CKV CKVC CONC COL CONN CONST CONTR CORR CPT DEMO DFA DIA

DIFF

DIM

DTL DWG

FSEC

HVAC

HGT

MAS MAX

MECH

NISOW

PL LAM

PLYWD

PNT

PNTD

QTY

STD

THK TOS

TYP

VAR VAT

VCT VERT

VEST VIF

W/0

WD WD BLK

WSCT

ME

GA

EA

ARCHITECTURAL BELOW FINISHED FLOOR BUILDING BRANCH TO CONNECTION CENTER LINE CEILING CONCRETE MASONRY UNIT COMMERCIAL KITCHEN VENTILATION COMMERCIAL KITCHEN VENTILATION CONTRACTOR CONVENIENCE OUTLET CONCRETE COLUMN CONNECTION CONSTRUCTION CONTRACTOR CORRIDOR CARPET CERAMIC TILE DEMOLITION DOWN FROM ABOVE DIAMETER DIFFUSER DIMENSION DETAIL DRAWING ELECTRICAL CONTRACTOR ELEVATION EQUIPMENT **EXISTING** EXHAUST **EXTERIOR**

ACOUSTICAL CEILING TILE

ABOVE FINISHED CEILING

ABOVE FINISHED FLOOR

ABOVE FINISHED SLAB

ADDITIONAL

APPROXIMATE

ELEV EQ EQUIP EXIST EXH EXT FIRE ALARM FLOOR DRAIN FEC FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER FUNNEL FLOOR DRAIN FINISHED FLOOR FINISH FLR FLOOR FRZR FREEZER

FOOD SERVICE FOOD SERVICE EQUIPMENT CONTRACTOR GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPT GYPSUM WALLBOARD

HEAT/VENTILATION/AIR CONDITIONING HEAT/VENTILATION/AIR CONDITIONING CONTRACTOR INSIDE DIAMETER INTERIOR JUNCTION BOX JANITOR'S CLOSET KICKPLATE LAVATORY LIGHT

MECHANICAL ENGINEER MECHANICAL MINIMUM MILLWORK NOT IN CONTRACT NOT IN SCOPE OF WORK NOT TO SCALE ON CENTER OUTSIDE DIAMETER

MASONRY

MAXIMUM

PLUMBING CONTRACTOR PLASTIC LAMINATE PLYWOOD PAINTED

PAPER TOWEL DISPENSER PARTITION **QUARRY TILE** QUANTITY

PTD PTN REFRIGERATION CONTRACTOR REFRIGERATOR REQ'D REQUIRED ROUGH-IN ROOM

SECT SECTION SPEC SPECIFICATION SPRINKLER SINGLE RECEPTACLE STAINLESS STEEL STANDARD STOR STORAGE TELEPHONE

WOOD

WAINSCOT

WOOD BLOCKING

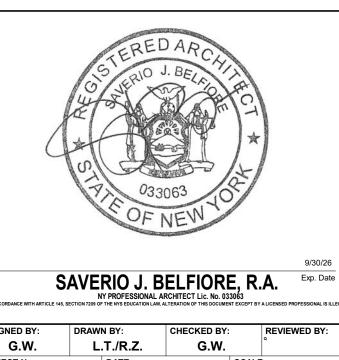
THICK[NESS] TOP OF SLAB TYPICAL VARIES VINYL ASBESTOS TILE VINYL COMPOSITE TILE VERTICAL VESTIBULE VERIFY IN FIELD VINYL TILE WITH WITHOUT

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NY Engineering Certificate of Authorization No.: 0018178

CONSULTANTS

DESCRIPTION MARK DATE 8/16/24 SED SUBMISSION



Harrison Central

AS SHOWN

2024-2161

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT G GENERAL CONSTRUCTION

SED FINAL BID SET

FOODSERVICE GENERAL NOTES, LEGENDS, ABBREVIATIONS

FS-100.00

L	EGEND		ABBREVIATIONS
SYMBOL	DESCRIPTION	AFF	ABOVE FINISHED FLOOR
<u> </u>	PIPING UP	вти	BRITISH THERMAL UNIT
C	PIPING DOWN	втин	BTU PER HOUR
	PIPING RISE OR DROP	CLG	CEILING
	BRANCH-TOP CONNECTION	со	CLEAN OUT
	BRANCH-BOTTOM CONNECTION	CODP	CLEAN OUT DECK PLATE
	— REDUCER	COWP	CLEAN OUT WALL PLATE
	CLEANOUT	CW	COLD WATER
(0)	FLOOR CLEANOUT	(D)	DEMOLISH
		DCV	DOUBLE CHECK VALVE DEVICE
	CAPPED PIPE	DEG.	° FAHRENHEIT
<u>(M)</u>	METER	DIA	DIAMETER
	FLOOR DRAIN	DN	DOWN
Y	AQUASTAT	(E)	EXISTING
	PUMP		
	STRAINER	EA	EACH EDESH AID INTAKE
	UNION	FAI	FRESH AIR INTAKE
	THERMOSTATIC MIXING VALVE	FD	FLOOR DRAIN
	BALANCING VALVE (BLV)	G	GAS
	GLOBE VALVE (GLV)	'GC'	GENERAL CONSTRUCTION CONTRACTOR
	CHECK VALVE (CV)	GPM	GALLONS PER MINUTE
 	- GAS COCK, GAS STOP	GPH	GALLONS PER HOUR
	BALL VALVE (BV)	'Н'	HVAC CONTRACTOR
	BUTTERFLY VALVE (BFV)	НР	HORSEPOWER
	_ SOLENOID VALVE	HW	HOT WATER
		HWR	HOT WATER RETURN
	PRESSURE-REDUCING VALVE (PRV) GATE VALVE (GV)	IN.	INCHES
	PRESSURE-RELIEF VALVE (RV)	IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
	BACKFLOW PREVENTER	KW	KILOWATTS
*+		LBS	POUNDS
+	FROST FREE HOSE BIBB	М	METER
	HOSE BIBB RECESSED-BOX HOSE BIBB OR	MAX	MAXIMUM
— —	WALL HYDRANT	MIN	MINIMUM
	EXPANSION JOINT	NTS	NOT TO SCALE
	WATER HAMMER ARRESTER	OD	OUTER DIAMETER
HDO	VALVE IN RISER	(P)	PROPOSED
CO J	WALL CLEANOUT (WCO)	'P'	PLUMBING CONTRACTOR
	PITCH DOWN OR UP IN DIRECTION OF ARROW	PD	PRESSURE DROP
	FLOW IN DIRECTION OF ARROW	RD	ROOF DRAIN
	COLD WATER (CW)	RPM	REVOLUTIONS PER MINUTE
	TEMPERED WATER (TW)	RPZ	REDUCED PRESSURE ZONE
	— HOT WATER (HW)	SAN/S	SANITARY
	TEMPERED WATER RETURN	ST	STORM DRAIN
	(TWR) HOT WATER RETURN (HWR)	TEMP	TEMPERATURE
	— WASTE PIPING (W,S,OW)		
	BELOW SLAB WASTE PIPING	TYP	TYPICAL
·		TW	TEMPERED WATER (110°F)
	VENT PIPING (V)	TWR	TEMPERED WATER RETURN
	— GAS PIPING (G)	V	VENT
	TO BE REMOVED	VTR	VENT THROUGH ROOF
•	POINT OF CONNECTION	w	WASTE

POINT OF DISCONNECTION

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/ENGINEER PRIOR TO THE SUBMISSION OF BIDS. PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 PLUMBING CODE OF NEW YORK STATE (PCNYS), MECHANICAL (MCNYS), ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS) CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

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

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.

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 EQUIPMENT IS REQUIRED.

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

0. 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 CERTIFIED ACCURACY.

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

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

14. 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.

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

6. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

. 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.

8. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.

. 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 JURISDICTION.

0. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL. 21. PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH FINISHED WALL PLATE IN FINISHED WALLS.

22. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE

PLUMBING CODE OF NEW YORK STATE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G. 23. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.

INSTALLATION REQUIREMENTS.

4. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE PLUMBING CODE OF NEW YORK STATE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.

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

26. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED FOR LOW

 $27.\quad$ ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 BCNYS AND COMMERCIAL PROVISIONS .

28. 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.

). HOT WATER TEMPERATURE FOR ALL PUBLIC HAND WASHING FIXTURES SHALL BE TEMPERED TO A MAXIMUM TEMPERATURE OF 110 DEGREES F.

10. ALL FIXTURES SHALL MEET THE WATER CONSERVATION REQUIREMENTS LISTED IN THE TABLE 604.4 OF THE 2020 PLUMBING CODE OF NEW YORK STATE.

. ALL FIXTURES THAT HAS THE ABILITY TO HAVE A HOSE CONNECTED TO IT, OR DIRECT CONNECTED FIXTURES, SHALL HAVE A BACKFLOW PREVENTION DEVICE ON THE FAUCET, VACUUM BREAKER (ASSE 1052 AND ASME A112.21.3).

32. ALL SANITARY FITTINGS SHALL BE 'WYE' TYPE AND SHALL FOLLOW THE DIRECTION OF FLOW.

33. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN DESIGN PLANS, RISER DIAGRAMS, AND/OR SPECIFICATIONS CONCERNING PIPE SIZES, FIXTURES, AND/OR EQUIPMENT, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED TO THE

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

. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT 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.

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

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

38. COVER ALL COPPER PIPING BELOW SLAB WITH *ARMAFLEX* TYPE INSULATION.

APPLICABLE CODES

2020 BUILDING CODE NEW YORK STATE (BCNYS) 1ST PRINTING 2020 FIRE CODE NEW YORK STATE (FCNYS) 1ST PRINTING

PENETRATIONS.

- 2020 PLUMBING CODE NEW YORK STATE (PCNYS) 1ST PRINTING 2020 FUEL GAS CODE NEW YORK STATE (FGCNYS) 1ST PRINTING
- 2020 MECHANICAL CODE NEW YORK STATE (MCNYS) 1ST PRINTING 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS) 1ST PRINTING

LEAD FREE NOTE

- 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 LEAD IN WATER REGULATION (10 NYCRR 67-4).
- 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

ENERGY NOTES

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE NOTES: STATEMENT OF COMPLIANCE:

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT. THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE (ECCCNYS).

SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY: 1.1. WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 IN THE

2020 ECCCNYS. (ECCCNYS C404.2) SERVICE WATER HEATING SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.2 OF THE 2020 ECCCNYS.

TEMPERATURE CONTROL 2.1. SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110°F AND 90 °F

FOR OTHER OCCUPANCIES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM OUTLET **TEMPERATURE OF 110°F.**

WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING. (ECCCNYS C404.3)

PIPE INSULATION: 3.1. AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION

WITH A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH, OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER. THE FIRST 8 FT OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH, OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER, (ECCCNYS C404.5)

ALL PIPING TO BE INSULATED WITH 0.21-0.28 CONDUCTIVITY

3.5. HOT WATER PIPING (140°F) AND TEMPERED WATER PIPING (110°F)

COLD WATER PIPING - ALL SIZES - 1-INCH INSULATION, A.S. JACKET. 3.4. STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY - MINIMUM 1-INCH INSULATION, A.S. JACKET.

PIPE SIZE: < 1" INSULATION: 1" PIPE SIZE: 1" TO < 1-1/2" INSULATION: 1"

PIPE SIZE: 1-1/2 TO < 4" INSULATION: 1.5" PIPE SIZE: 4" TO < 8" INSULATION: 1.5" 3.5.4.

HOT WATER SYSTEM CONTROLS: 4.1. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER

THE OPERATING CONTROLS. (ECCCNYS C404.6)

AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO

PIPE VOLUME AND MAXIMUM LENGTHS:

5.1. PER SECTION OF C404.5.1 OF THE 2020 ECCCNYS. ALL MAXIMUM PIPE LENGTHS FROM FIXTURES SHALL COMPLY WITH THE MAXIMUM PIPE LENGTHS ON THE CHART BELOW. CONTRACTOR TO ENSURE HOT WATER RETURN PIPING IS INSTALLED AS PER PLANS AND THAT THESE LENGTHS ARE MAINTAINED.

NOMINAL PIPE SIZE	VOLUME (LIQUID OUNCES PER	MAXIMUM PIPING LENGTH (FEET)						
(INCHES)	FOOT LENGTH)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES					
1/4"	0.33	6	50					
5/16"	0.5	4	50					
3/8"	0.75	3	50					
1/2"	1.5	2	43					
5/8"	2	1	32					
3/4"	3	0.5	21					
7/8"	4	0.5	16					
1"	5	0.5	13					
1-1/4"	8	0.5	8					
1-1/2"	11	0.5	6					
2" OR LARGER	18	0.5	4					

FUEL GAS NOTES

- PERFORM ALL WORK IN ACCORDANCE WITH NFPA 54 NATIONAL FUEL GAS CODE, THE 2020 FUEL GAS CODE OF NEW YORK STATE (FGCNYS), 2018 CON EDISON YELLOW BOOK, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- THE DEPTH OF COVER FOR ALL GAS SERVICE PIPING SHALL BE 24 INCHES.

THE WATER SERVICE SHALL BE KEPT A MINIMUM OF 10-FEET FROM THE INCOMING GAS SERVICE MEASURED IN ANY DIRECTION. IF ELECTRIC AND GAS SHARE A COMMON TRENCH, THE TRENCH MUST BE WIDE ENOUGH TO MAINTAIN A 6-INCH MINIMUM

- SEPARATION DISTANCE. LOCATION OF PROPOSED GAS METER ON CONTRACT DOCUMENTS ARE SUBJECT TO CHANGE BY THE LOCAL UTILITY COMPANY. REFER TO THE LOCAL UTILITY COMPANY HANDBOOKS FOR METER RIG CONSTRUCTION DETAILS. RULES AND REGULATIONS. THIS INCLUDES. BUT NOT LIMITED TO LOCATION OF STEP DOWN REGULATORS. METER SIZE AND SET LENGTHS. VENTING OF
- REGULATORS, BYPASS PIPING, BOLLARD REQUIREMENTS, CONCRETE PAD, SUPPORTS, AND SHUT OFF VALVES. 7.1. INDOOR - STEEL PIPE- SCHEDULE 40 WITH WELDED OR THREADED JOINTS. THREADED JOINTS SHALL BE 150 POUND
- MALLEABLE IRON, FORGED STEEL, BLACK IRON, OR GALVANIZED STEEL. 7.2. OUTDOOR - ABOVE GROUND - GALVANIZED PIPE OR PROPERLY COATED BLACK STEEL PIPE WITH SCREWED OR THREADED
- 7.3. BELOW GRADE STEEL PIPE- MILL WRAPPED SCHEDULE 40 WITH WELDED OR THREADED JOINTS.
- 7.4. WELDED JOINTS MUST BE USED FOR GAS PIPING LARGER THAN 4-INCH, OR 3-INCH FOR SCHOOLS.
- GAS PIPING ENTERING A BUILDING SHALL BE ABOVE GRADE. PENETRATIONS THROUGH BURIED WALLS ARE NOT PERMITTED. WHERE GAS PIPING IS INSTALLED BELOW GRADE INSIDE A BUILDING, THE GAS PIPING MUST BE INSTALLED IN A CONDUIT AND BE VENTED TO THE EXTERIOR.
- 0. GAS PRESSURE TEST: 10.1. GALVANIZED OR BARE STEEL - UP TO 14" W.C. - AIR AT 3 PSIG FOR 30 MINUTES - AIR AT 15 PSIG FOR 1-HOUR (SED)
- 10.2. GALVANIZED OR BARE STEEL GREATER THAN 14" W.C. AIR AT 50 PSIG FOR 30 MINUTES AIR AT 1.5 TIMES THE WORKING PRESSURE FOR 1-HOUR (SED)
- 10.3. COATED OR WRAPPED LESS THAN 2-INCH AIR AT 90 PSIG FOR 1-HOUR ALL SIZES AIR AT 100 PSIG FOR 1-HOUR (SED) 10.4. COATED OR WRAPPED - 2-INCH TO 12-INCH - AIR AT 90 PSIG FOR 4-HOURS

1. SUPPLY ALL GAS-FIRED EQUIPMENT WITH GAS PIPING AS PER THE NEW YORK STATE FUEL GAS CODE. PROVIDE EACHPIECE OF

- EQUIPMENT WITH A DIRT LEG, UNION AND GAS COCK. PROVIDE A VENTED REGULATOR IF EQUIPMENT REQUIRES LOWER THAN
- 2. PROVIDE VEHICLE IMPACT PROTECTION FOR NEW METER HEADER. BOLLARDS SHALL BE SPACED NO MORE THAN 4-FEET BETWEEN POSTS ON CENTER AND LOCATED NOT LESS THAN 3-FEET FROM THE PROTECTED OBJECT. 3. SHUTOFF VALVES INSTALLED IN TUBING SYSTEMS MUST BE RIGIDLY AND SECURELY SUPPORTED INDEPENDENTLY OF THE
- 14. ALL COOKING APPLIANCE CONNECTIONS MUST BE LISTED AND LABELED.

FOR SI: I POUND PER SQUARE INCH GAUGE = 6.895kPa.

X* IF LABELED 2G X** IF LABELED 5G

MANUAL GAS VALVE STANDARDS											
	APPLIANCE SHUTOFF	OTHER VALVE APPLICATIONS									
VALVE STANDARDS	VALVE APPLICATION UP TO 1/2 PSIG PRESSURE	UP TO 1/2 PSIG PRESSURE	UP TO 2 PSIG PRESSURE	UP TO 5 PSIG PRESSURE							
ANSI Z21.15/CGA9.1	X	_	_	-							
ASME B16.44	Х	X*	X**	-							
ASME B16.33	X	x	Х	Х							
NOTES:											

DEMOLITION NOTES

GENERAL

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 AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT.

SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH

COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.

DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTERNSIONS, CONNECTIONS, CUTTING. REPAIRING. ADAPTING AND OTHER PLUMBING WORK REQUIRED TO MAINTAIN SERVICE IF REQUIRED. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECT AND **BUILDING OWNER.**

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNWANTED MATERIAL OFF SITE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS. COORDINATE WITH OWNER FOR ANY EQUIPMENT OR FIXTURES TO BE KEPT ON SITE.

CONTRACT.

OVER TO THE OWNER.

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

AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT. 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

TO EXISTING CONDITIONS SURFACE DAMAGED DURING CONSTRUCTION INCLUDING PATCHING

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:

TO REMAIN OPERATIONAL AND NOT BE AFFECTED BY DEMOLITION WORK.

6.1. REMOVE ALL ABANDONED BASE BUILDING PIPING BACK TO THE EXISTING WET COLUMNS OR SHAFTS, OR AS NOTED ON DRAWINGS. 6.2. CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING REMOVAL SCOPE OF WORK TO MAINTAIN CONTINUITY OF ALL SERVICES TO ALL TENANTS WHO ARE

PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS. COORDINATE WITH OWNER TO DETERMINE WHETHER REMOVED EQUIPMENT IS TO BE TURNED

6.3. ALL EXISTING BUILDING VALVES FOR DOMESTIC WATER MAINS AT SHAFTS ARE TO REMAIN.

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JANUARY 2025 AS SHOWN

HCSD2401H

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT P PLUMBING CONSTRUCTION

FINAL BID DOCUMENT

PLUMBING GENERAL NOTES, LEGEND, AND ABBREVIATIONS

P 001.00

*HC REPRESENTS HANDICAPPED PLUMBING FIXTURE. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS FOR ACCESSIBLE FIXTURES.

WATER HEATER

				EQUIPMENT SI		BASIS OF DESIGN INFORMATION													
EQUIPMENT NO.	LOCATION	TYPE	OAG FIDED WATER LIFATER		DEGOVERY MATER AAA		REMARKS												
			STURAGE	WARE	MODEL	(LxWxH)		GAS PRESSURE	GAS CONNECTION	FLUE SIZE	POWER / AMPS	VOLTS / PHASE	AT 100°F RISE	CONNECTION	CONNECTION	EFFICIENCY	MAKE	MODEL	L
WH-1	JANITOR CLOSET	GAS FIRED	60-GAL	BRADFORD WHITE	EF-60T-199E-3N(A)	28.25" x 39"	199,000	4.5" - 14" W.C.	3/4	3"	-	120 / SINGLE	226 GAL.	3/4"	3/4"	96%	AMTROL	ST-12	PROVIDE CONCENTRIC VENT KIT AND CONDENSATE NEUTRALIZATION KIT.
WH-2	UNDERNEATH LAVATORY	POINT OF USE TANKLESS	-	EEMAX - ACCUMIX II	AM005240T	4"x5.25"x14.5"	-	-	-	-	3.6 KW / 17 A	208 / SINGLE	-	3/8"	3/4"	-	-	-	COORDINATE WATER HEATER LOCATION TO MAINTAIN TOE CLEARANCE BELOW ADA SINKS.

ARCHITECTURAL PLANS FOR HEIGHTS.

1. FLOOR MOUNTED WATER HEATERS SHALL HAVE A 2-INCH HIGH GALVANIZED SAFETY PAN WITH A 3/4" DRAIN LINE FROM THE SAFETY PAN TO THE NEAREST FLOOR DRAIN OR SERVICE SINK. PIPE THE T&P VALVE TO THE SAFETY PAN.

2. FLOOR MOUNTED WATER HEATERS, STORAGE TANKS, AND EXPANSION TANKS SHALL BE MOUNTED ON A 4-INCH CONCRETE PAD AND PAD SHALL EXTEND A MINIMUM OF 6-INCHES PAST EQUIPMENT.

3. EXPANSION TANKS SHALL BE INDEPENDENTLY SUPPORTED FROM THE PIPING SYSTEM, AND SHALL BE PRESSURIZED TO MEET THE INCOMING PRESSURE OF THE WATER SYSTEM. REFER TO MANUFACTURER INSTRUCTIONS FOR PROPER ORIENTATION.

PUMP SCHEDULE

PUMP NO.	LOCATION	TYPE	SERVICE	GPM	TDH (FT)			MOTOR D	REMARKS		
PUIVIP INU.	LOCATION	IIPE	SERVICE	(EA)	1011(11)	RPM	HP (EA)	PHASE	CYCLE	VOLTS	REWARNS
CP-1	MECH ROOM	SIMPLEX	HOT WATER RECIRC	5	7	3250	0.025	1	60	115 V	TACO-006-ST4 MODEL NUMBER. PROVIDE TACO AQUASTAT (563-2) AND DIGITAL TIMER (265-3)

		T000
IN	TERCEF	PIORS

EQUIPMENT					BASIS OF DES	SIGN INFORMATION			
NO.	LOCATION	FLUID	FLOW (GPM)	CAPACITY	INLET AND OUTLET SIZE	MANUFACTUER	MODEL	NOMINAL DIMENSIONS (L X W X H)	REMARKS
GT-1	KITCHEN	GREASE	75	287 LBS	4"	SCHIER	GB-50	37" X 32.25" X 28.52"	PROVIDE COLLAR EXTENSION TO MEET SLAB AT KITCHEN.

architects
+
engineers

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SIGNED BY: REVIEWED BY:

PROJECT No: DATE: SCALE:
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Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

NTRACT

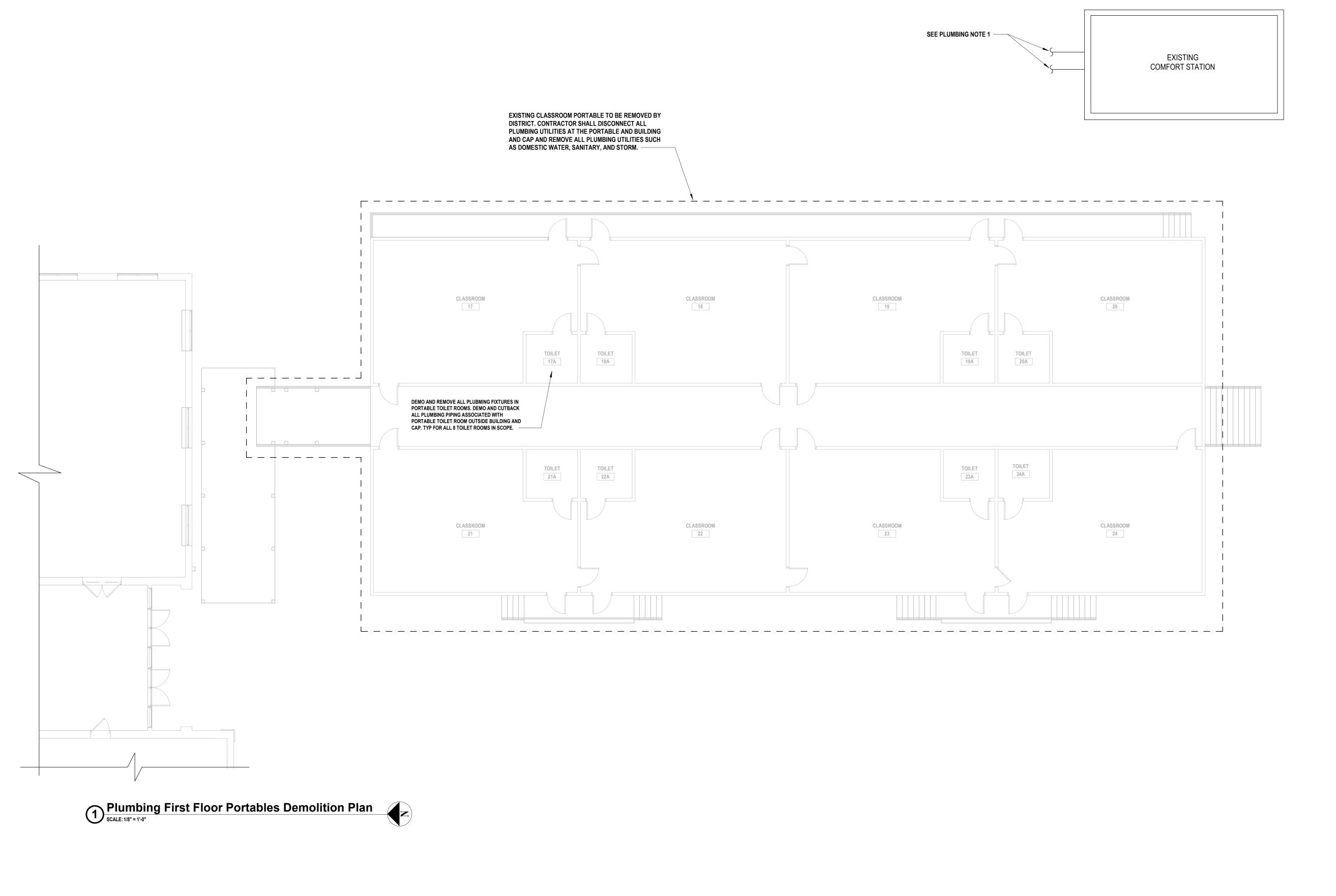
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PLUMBING CONSTRUCTION

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SHEET TITLE

PLUMBING SCHEDULES

P 002.00



DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS,

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

DEMOLITION NOTES

PRIOR TO PROPOSAL SUBMISSION, THIS CONTRACTOR SHALL VISIT THE SITE TO REVIEW 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. 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

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. 6.2. CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING REMOVAL SCOPE OF WORK TO MAINTAIN CONTINUITY OF ALL SERVICES TO ALL TENANTS WHO ARE

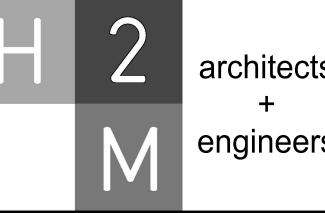
TO REMAIN OPERATIONAL AND NOT BE AFFECTED BY DEMOLITION WORK. 6.3. ALL EXISTING BUILDING VALVES FOR DOMESTIC WATER MAINS AT SHAFTS ARE TO REMAIN. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.

COORDINATE WITH OWNER TO DETERMINE WHETHER REMOVED EQUIPMENT IS TO BE TURNED

PLUMBING NOTES

COMFORT STATION NOTES:

- THE EXISTING COMFORT STATION'S UTILITIES ARE BEING FED FROM THE MAIN BUILDING AND SHALL REMAIN. CONTRACTOR SHALL MARK OUT LOCATIONS OF UTILITIES AND PROTECT DURING CONSTRUCTION.
- ALL DOMESTIC WATER AND SANITARY WASTE PIPING ASSOCIATED WITH THE ADJACENT COMFORT STATION OUTSIDE OF PORTABLE ARE TO REMAIN AND SHALL NOT BE TAMPERED WITH.



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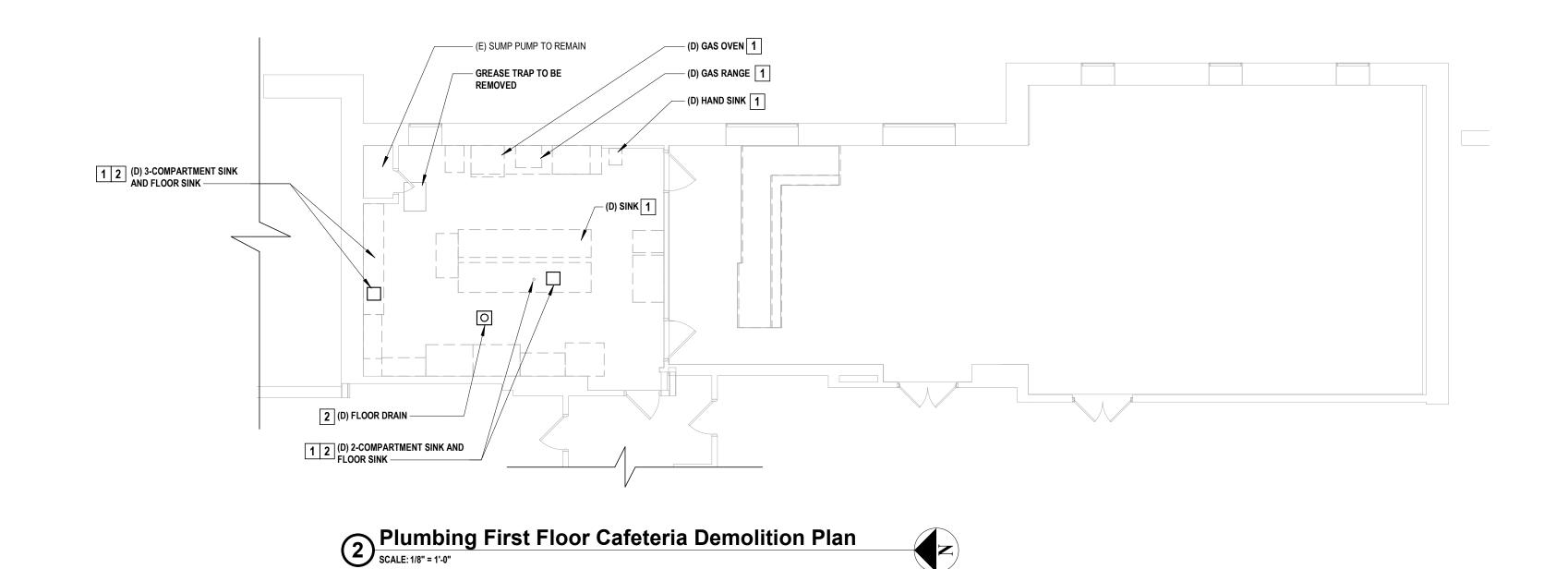
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CONTRACT P PLUMBING CONSTRUCTION

FINAL BID DOCUMENT

PLUMBING OVERALL FIRST FLOOR DEMOLITION PART PLAN

PD 100.00



ALL KITCHEN FIXTURES AND EQUIPMENT ARE TO BE REMOVED AND PLACED IN SAFEKEEPING FOR

2. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE REMOVED AND CAP PIPE AND PATCH FLOOR SLAB.

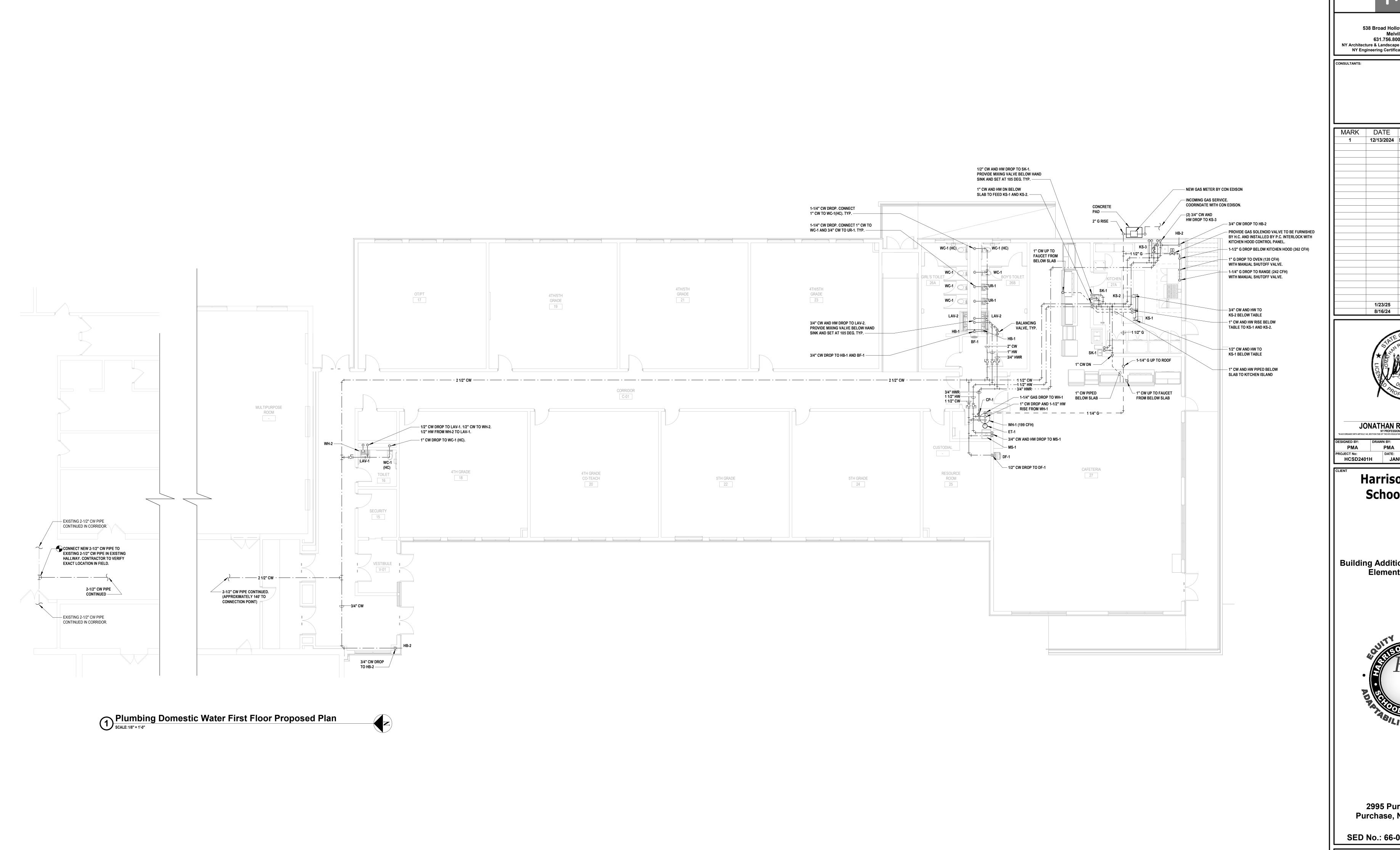
REINSTALLATION AT NEW KITCHEN LOCATION.

EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY REGULATIONS.

AREA OF WORK

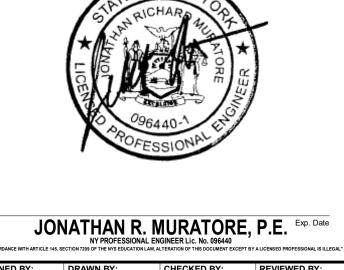
KEY PLAN

OVER TO THE OWNER.



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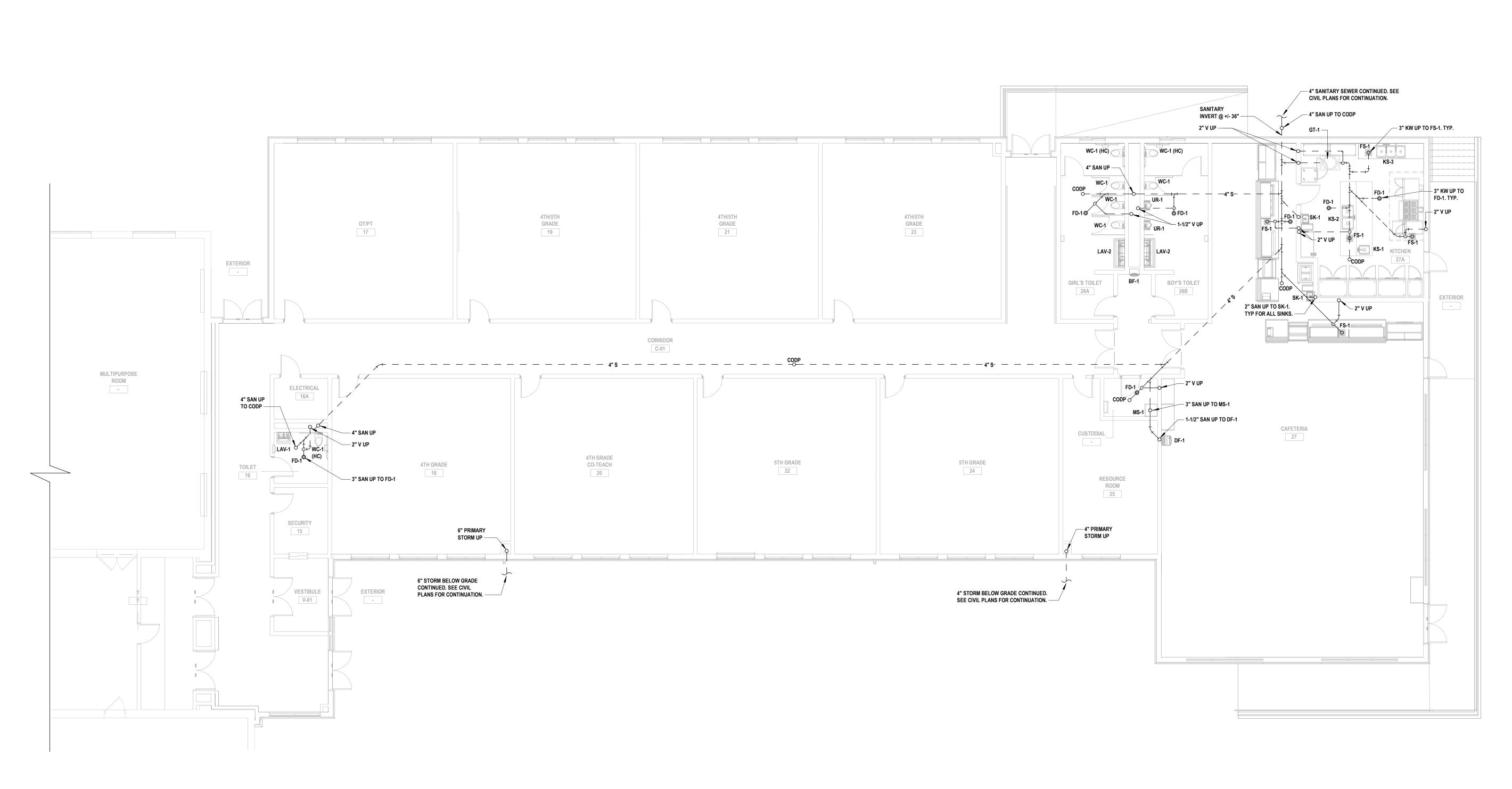
CONTRACT P PLUMBING CONSTRUCTION

FINAL BID DOCUMENT

KEY PLAN

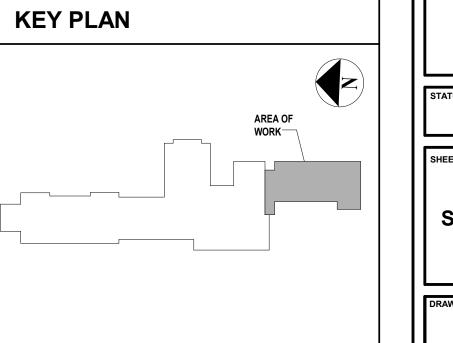
PLUMBING DOMESTIC WATER FIRST FLOOR **PLAN**

P 120.00



Plumbing Sanitary and Vent Underslab Proposed Plan

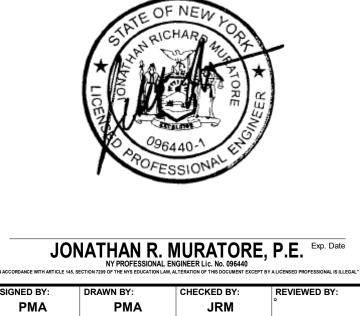
SCALE: 1/8" = 1'-0"



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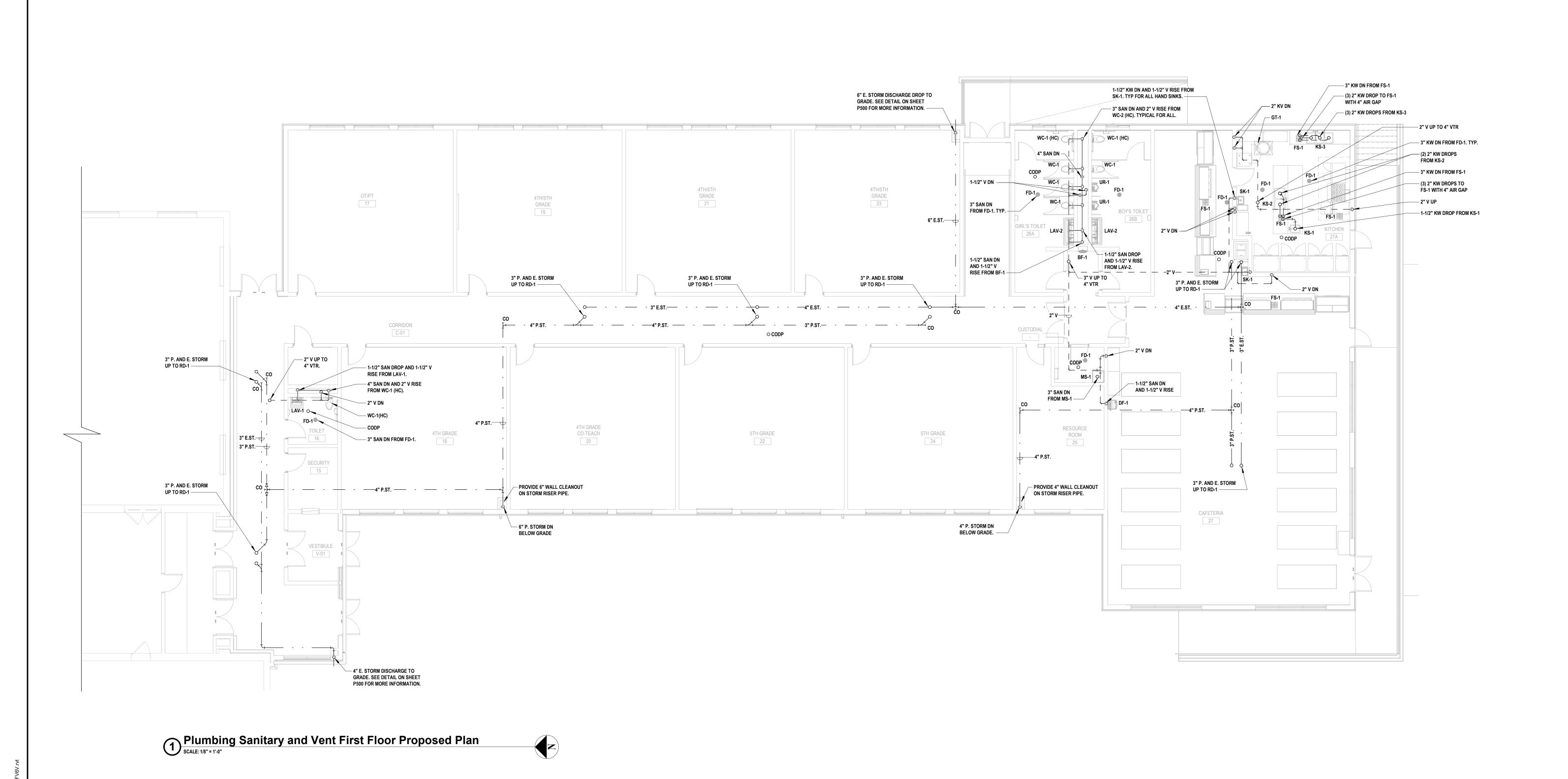
CONTRACT P
PLUMBING CONSTRUCTION

FINAL BID DOCUMENT

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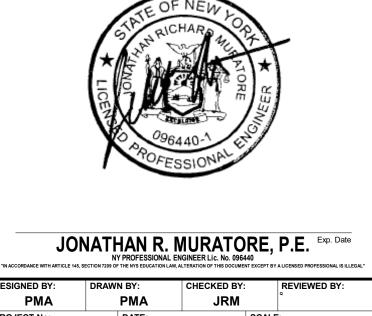
PLUMBING SANITARY AND VENT UNDERSLAB PROPOSED PLAN

P 130.00



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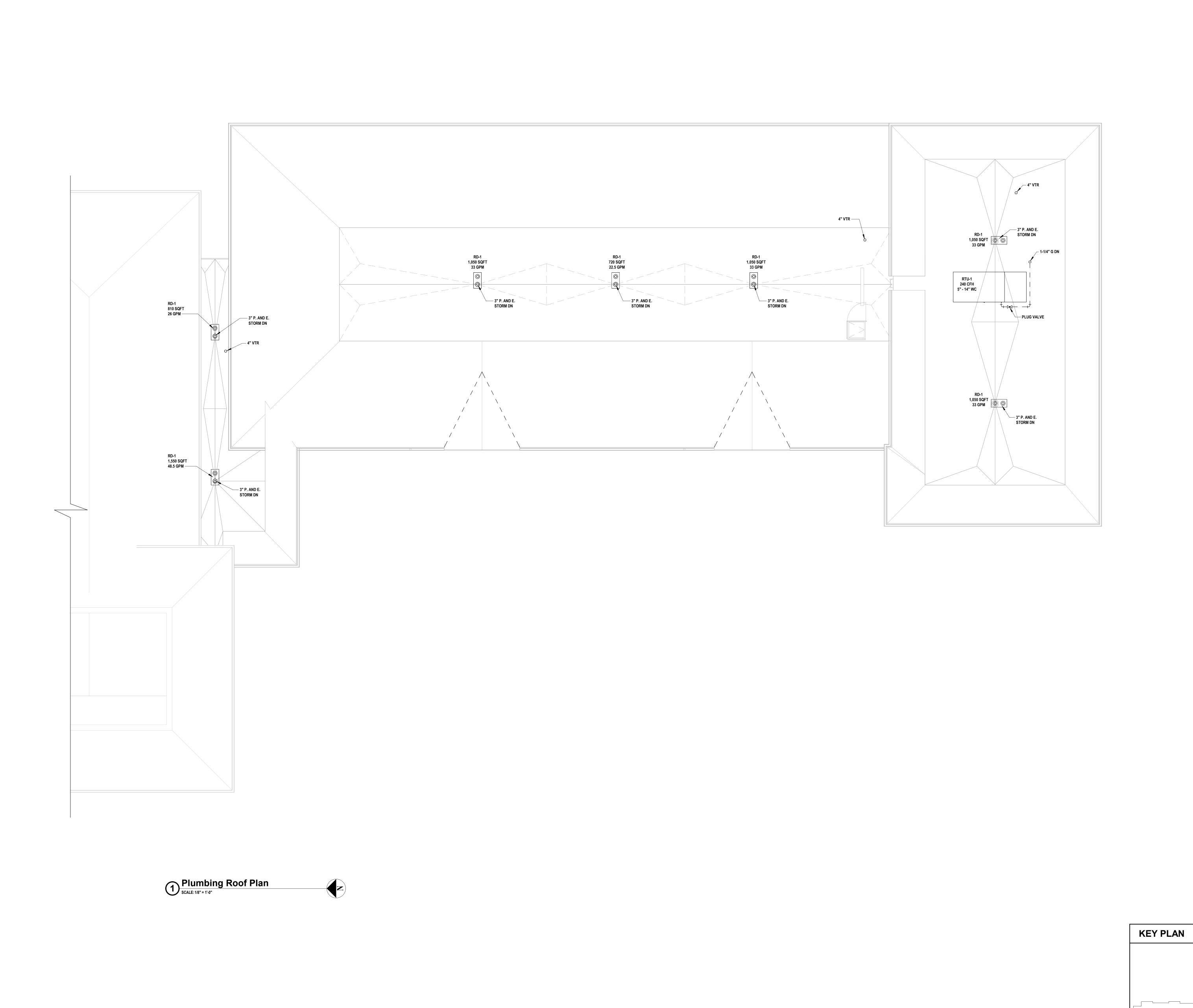
CONTRACT P PLUMBING CONSTRUCTION

FINAL BID DOCUMENT

PLUMBING SANITARY AND VENT FIRST FLOOR PROPOSED PLAN

P 131.00

KEY PLAN

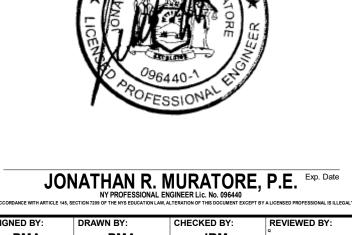


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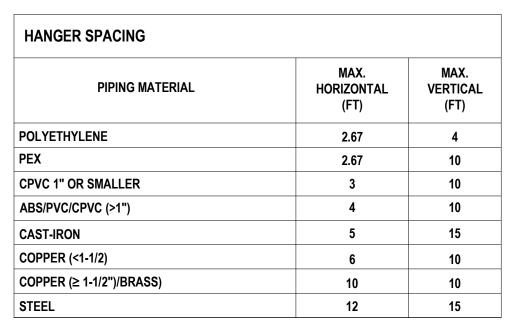
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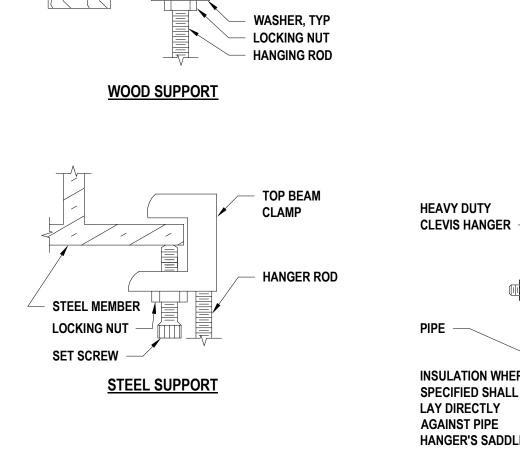
EET TITLE

PLUMBING ROOF PLAN

P 140.00



HANGER ROD SCHEDULE									
PIPE SIZE	ROD SIZE (DIA.)	PIPE SIZE	ROD SIZE (DIA.)						
≤ 2"	3/8"	4" THRU 5"	5/8"						
2 1/2" THRU 3 1/2"	1/2"	6" THRU 8"	3/4"						

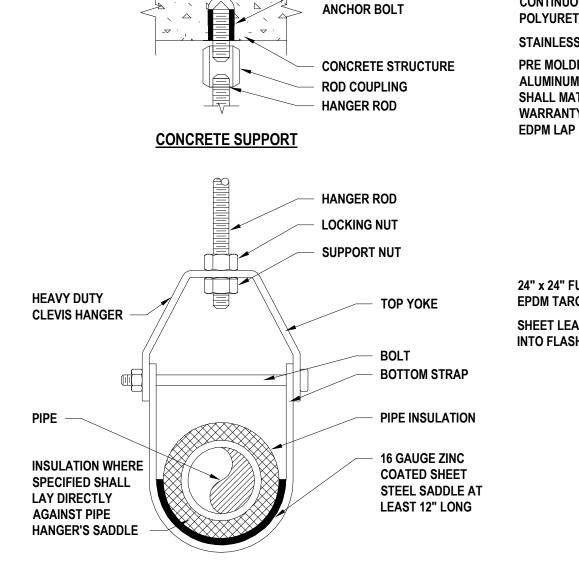


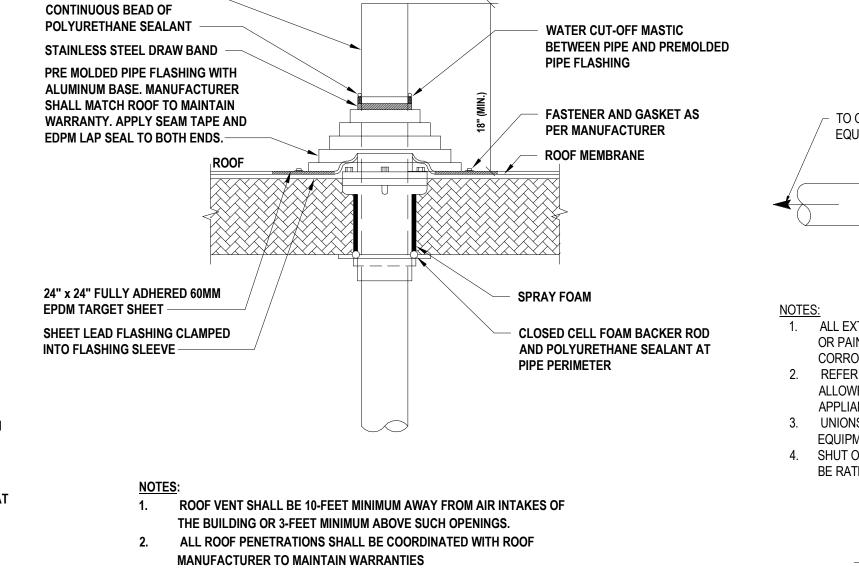
WOOD MEMBER

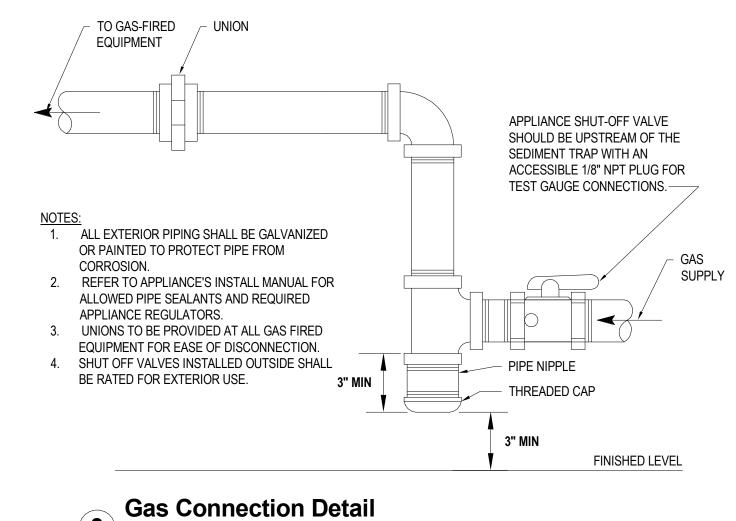
WOOD SCREW

STEEL BRACKET

- LOCKING NUT







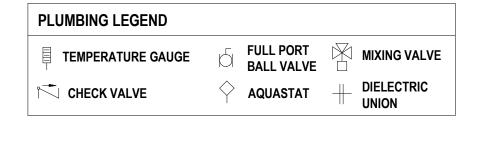


VENT PIPE. SEE PLANS

FOR LOCATION. —

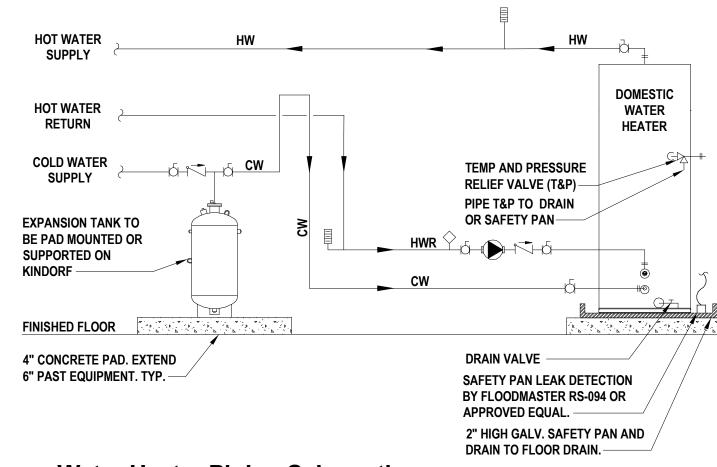


SCALE: NTS

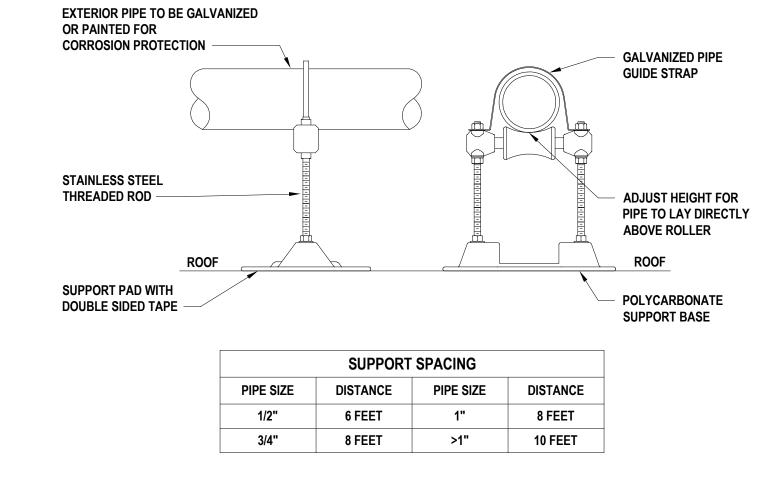


Pipe Hanger Detail

SCALE: NTS



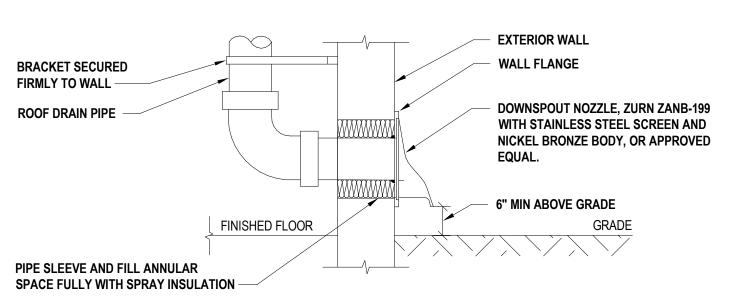
Water Heater Piping Schematic



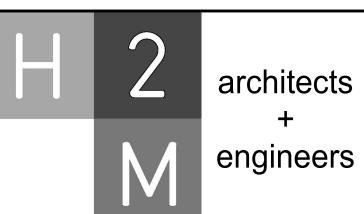
Pipe Support on Roof Detail

SCALE: NTS

NOTE: DETAIL IS BASED ON MIRO INDUSTRIES RAH SERIES PIPE SUPPORTS. OTHER APPROVED MANUFACTURERS INCLUDE; DURABLOCK, MIFAB, OR PMP.

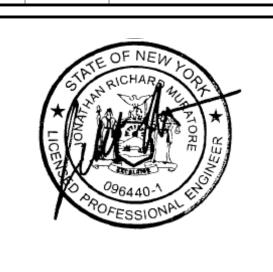


Storm Overflow Drain Outlet Detail



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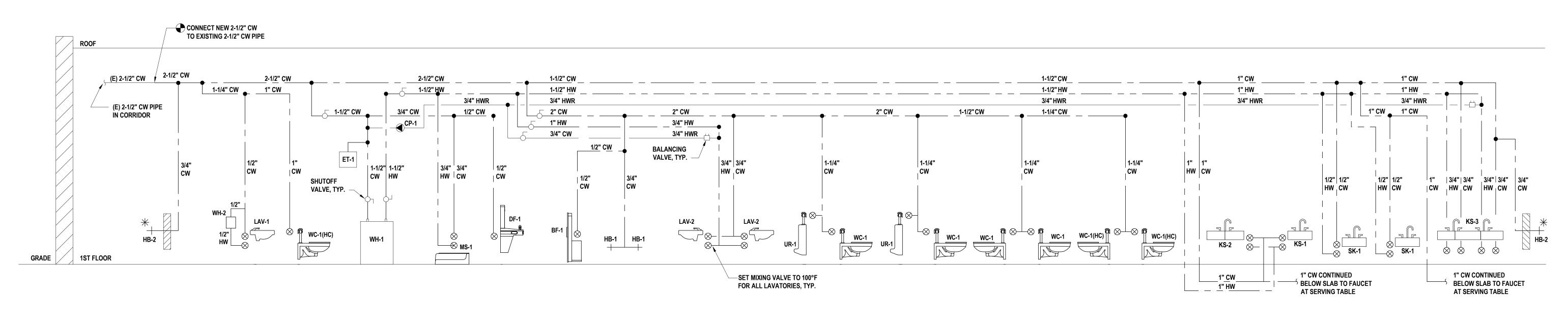
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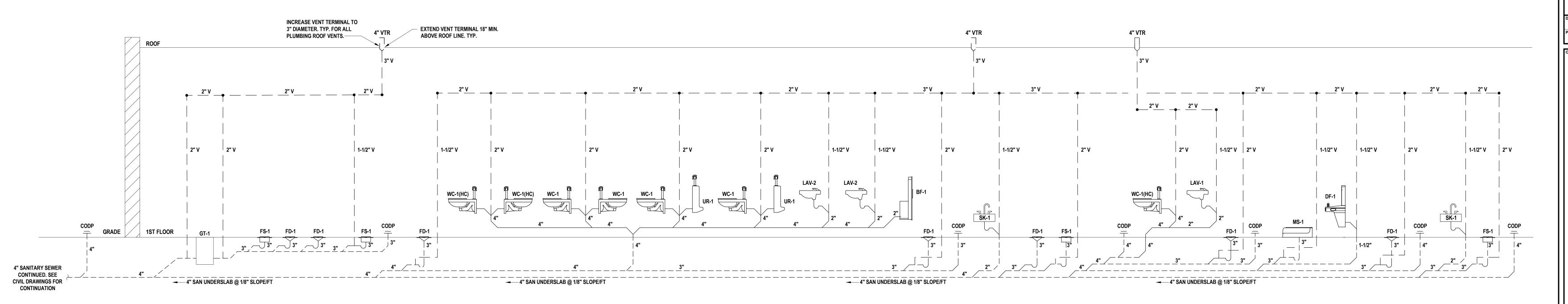
PLUMBING DETAILS

P 500.00



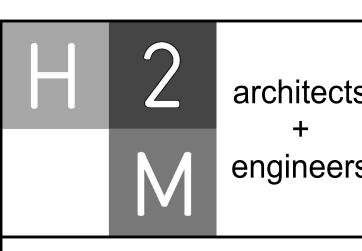
Plumbing Domestic Riser Diagram

SCALE: N.T.S.



Plumbing Sanitary Riser Diagram

SCALE: N.T.S.



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PMA

PMA

PMA

DATE:

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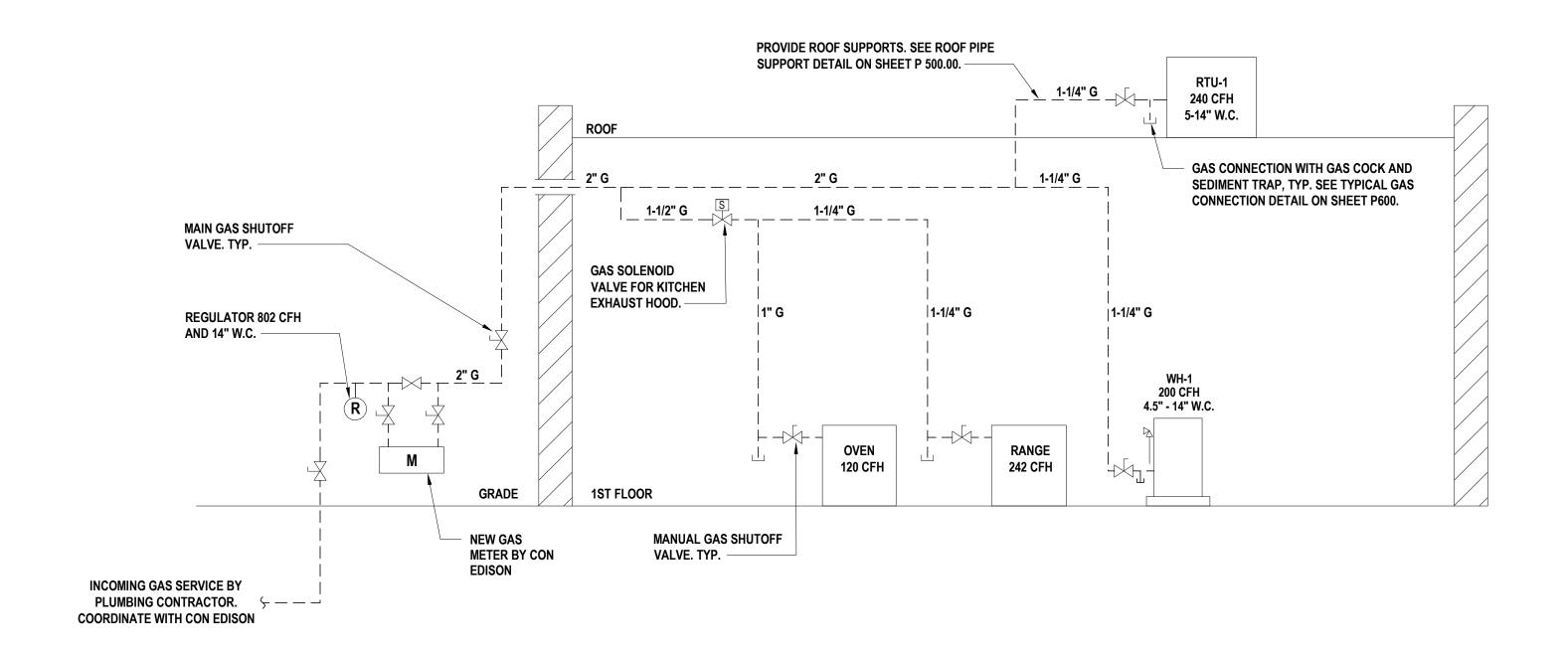
HEET TITLE

PLUMBING DOMESTIC WATER AND SANITARY AND VENT RISER DIAGRAM

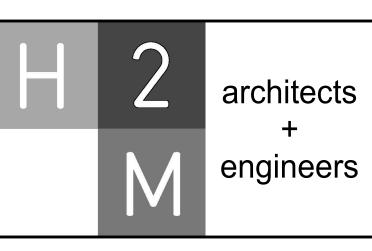
P 600.00

Plumbing Storm Riser Daigram

SCALE: N.T.S.



Plumbing Gas Riser Daigram
SCALE: N.T.S.



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SHEET TITL

PLUMBING STORM AND GAS RISER DIAGRAMS

P 601.00

ABBRE	VIATIONS
AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COMM.	COMMUNICATION
CV	CONTROL VALVE DEMOLISH
(D)	DRY BUI B
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 FAI	EXTERNAL STATIC PRESSURE FRESH AIR INTAKE
FAI	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H20	FEET OF WATER
'G'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
Н	HEIGHT
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
IN. W.C. (W.G.)	INCHES INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MNF	MANUFACTURER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NPT	NATIONAL PIPE THREAD
NTS OAI	NOT TO SCALE OUTDOOR AIR INTAKE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAT SEER	SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB
WMS	WIRE MESH SCREEN

SYMBOL	ABBREV	DESCRIPTION
	>	NEW DUCTWORK WITH 45 DEGREE TAKE OFF
	VD	VOLUME DAMPER
	CD	ROUND SUPPLY CEILING DIFFUSER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST
	SEE AIR DEVICE SCHEDULE	SQUARE SUPPLY CEILING DIFFUSER
	SEE AIR DEVICE SCHEDULE	CEILING RETURN OR EXHAUST GRILLE
山州州		FLEX DUCT
	FC	FLEXIBLE CONNECTION
uuu		TURNING VANES
		RECTANGULAR TO ROUND TRANSITION
	AL	ACOUSTICAL LINING
		END CAP
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)
×		SUPPLY DUCT DROP
<u> </u>		RETURN/EXHAUST DUCT DROP
		SUPPLY DUCT RISE
		RETURN/EXHAUST DUCT RISE
DSD —	DSD	DUCT SMOKE DETECTOR
—М	MD	MOTORIZED DAMPER WITH ACTUATOR
OR	AD	ACCESS DOOR
—	FD/AD	FIRE DAMPER WITH ACCESS DOOR
——	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR
		WORK TO BE REMOVED
•		POINT OF DISCONNECTION FROM EXISTING
<u> </u>		POINT OF RECONNECTION TO EXISTING

LIS	T OF DRAWINGS	
1	M-001.00	MECHANICAL GENERAL NOTES & LEGENDS
2	MD-110.00	MECHANICAL FIRST FLOOR DEMOLITION PLAN
3	M-110.00	MECHANICAL FIRST FLOOR CONSTRUCTION PLAN
4	M-140.00	MECHANICAL ROOF CONSTRUCTION PLAN
5	M-510.00	MECHANICAL DETAILS
6	M-610.00	MECHANICAL SCHEDULES

PING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
		WORK TO BE REMOVED
C- O-		PIPING DOWN/ PIPING UP
∮ -[BALL VALVE WITH HOSE END CONNECTION
	TH	THERMOMETER
<u> </u>	U	UNION
─ ₩	FPC	FLEXIBLE PIPE CONNECTION/ FLEX PIPE
		DIRECTION OF FLOW
<u></u>	PSR	PRESSURE SAFETY AND RELIEF VALVE
_ \	PRV	PRESSURE REDUCING VALVE
— Б—	BV	BALL VALVE
────	BA	BALANCING VALVE
	BFV	BUTTERFLY VALVE
		TEMPERATURE SENSOR WITH THERMOWELL
\longrightarrow	GA	GATE VALVE
—\XX	GB	GLOBE VALVE
\	AV	AUTOMATIC AIR VENT
	CV	2-WAY ELECTRONIC CONTROL VALVE
——————————————————————————————————————	CV	3-WAY ELECTRONIC CONTROL VALVE
→ \$ -	CV	2-WAY PNEUMATIC CONTROL VALVE
− \$−	CV	3-WAY PNEUMATIC CONTROL VALVE
- √ ∞ -		PLUG VALVE
7 7	STR	STRAINER
	STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
	FD	FLOOR DRAIN
© S		AIR SEPARATOR
——————————————————————————————————————		STEAM TRAPS (INDICATE TYPE)
♣ →	СН	CHECK VALVE
<u> </u>	PG	PRESSURE GAUGE WITH GAUGE COCK
	RED	REDUCER
co.	со	CLEANOUT END CAP
		PIPE GUIDE
		PIPE ANCHOR
		CAPPED PIPE
		PUMP
		POINT OF DISCONNECTION FROM EXISTING
•		POINT OF RECONNECTION TO EXISTING
<u> </u>	TDV	TRIPLE DUTY VALVE
<u> </u>		

CONTROLS LEGEND								
SYMBOL	DESCRIPTION							
©	CARBON MONOXIDE SENSOR							
Ţ	THERMOSTAT							
S	DIGITAL TEMPERATURE SENSOR							
H	HUMIDITY SENSOR							
P	PRESSURE SENSOR							
<u>C2</u>	CARBON DIOXIDE SENSOR							

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 CODE, AND FUEL GAS CODE OF NEW YORK STATE AND REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.

SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.

- 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
- 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
- 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 OR WALKING AREAS.
- 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 FORGED OR CAST BEAM CLAMPS; THE USE OF ROLLED STEEL C-CLAMPS IS NOT PERMITTED. REFER TO SPECIFICATION SECTION 230529 FOR ADDITIONAL INFORMATION.
- 18. INTERNALLY LINE ALL SUPPLY, RETURN AND OUTDOOR AIR DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS/AIR HANDLING EQUIPMENT WITH 1" THICK ACOUSTIC DUCT LINER. 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.
- 19. 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 ARCHITECT/ENGINEER
- 20. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

WORK IN EXISTING AREAS

- 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.
- 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 EXISTING WARRANTEES/GUARANTEES ARE NOT VOIDED, USE QUALIFIED PERSONNEL IN PERFORMANCE OF WORK.

CONTRACT 'H' SCOPE NOTES

- FURNISH ALL LOUVERS FOR INSTALLATION BY CONTRACT 'G'. SUBMIT LOUVER COLOR AND CONFIGURATION TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- 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'.
- 3. INSTALL SMOKE DETECTORS IN DUCTWORK WHERE A SMOKE DAMPER OR FIRE SMOKE DAMPER IS INSTALLED. SMOKE DETECTOR SUPPLY AND WIRING IS PAR OF CONTRACT 'E'.
- 4. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.
- 5. FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN INTERIOR MASONRY WALLS FOR INSTALLATION BY CONTRACT 'G'.
- 6. FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR INSTALLATION BY CONTRACT 'G'
- 7. FURNISH ALL CURBS FOR ALL ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS FOR INSTALLATION BY CONTRACT 'G'.
- 8. REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.
- 9. PERFORM ALL CUTTING AND PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK. FINISH PATCHING AND FLASHING IS PART OF CONTRACT 'G'

LEGENDS/ABBREVIATIONS NOTES

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

SYSTEM COMMISSIONING NOTES (NYS)

- COMMISSION ALL NEW BUILDING MECHANICAL SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NEW YORK STATE (NYS) ENERGY CONSERVATION CODE (ECC) SECTION C408. COMMISSIONING SHALL BE PERFORMED BY AN APPROVED THIRD-PARTY COMMISSIONING AGENCY HIRED BY THE [OWNER / ASSIGNED CONSTRUCTION MANAGER / CONTRACTOR]. REFER TO SPECIFICATION SECTIONS 019113 GENERAL COMMISSIONING REQUIREMENTS AND 230800 COMMISSIONING OF MECHANICAL SYSTEMS FOR MORE INFORMATION.
- 2. PROVIDE DRAWINGS, OPERATION & MAINTENANCE (O&M) MANUALS, AND SYSTEM BALANCING REPORTS TO BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION IN ACCORDANCE WITH THE 2020 NYS ECC SECTION C408.2.5.
- 3. COMMISSIONING AGENT SHALL PROVIDE FINAL COMMISSIONING REPORT TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF THE CERTIFICATE OF OCCUPANCY OR LETTER OF COMPLETION IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 NYS ECC SECTION C408.2.5.4.



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SULTANTS:

MARK	DATE	DESCRIPTION
	4/00/05	1001177 707 717
	1/23/25	ISSUED FOR BID
11	8/16/24	SED SUBMISSION



BRIAN M. CASTELLI, P.E.

NY PROFESSIONAL ENGINEER LIC. NO. 099167

CORDANCE WITH ARTICLE 145, SECTION 7209 OF THE NYS EDUCATION LAW, ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEG.

GNED BY:

RVS

BMC

CHECKED BY:

REVIEWED BY:

SCALE:

SCALE:

JANUARY 2025 AS SHOWN

Harrison Central School District

HCSD2401H

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT

CONTRACT H

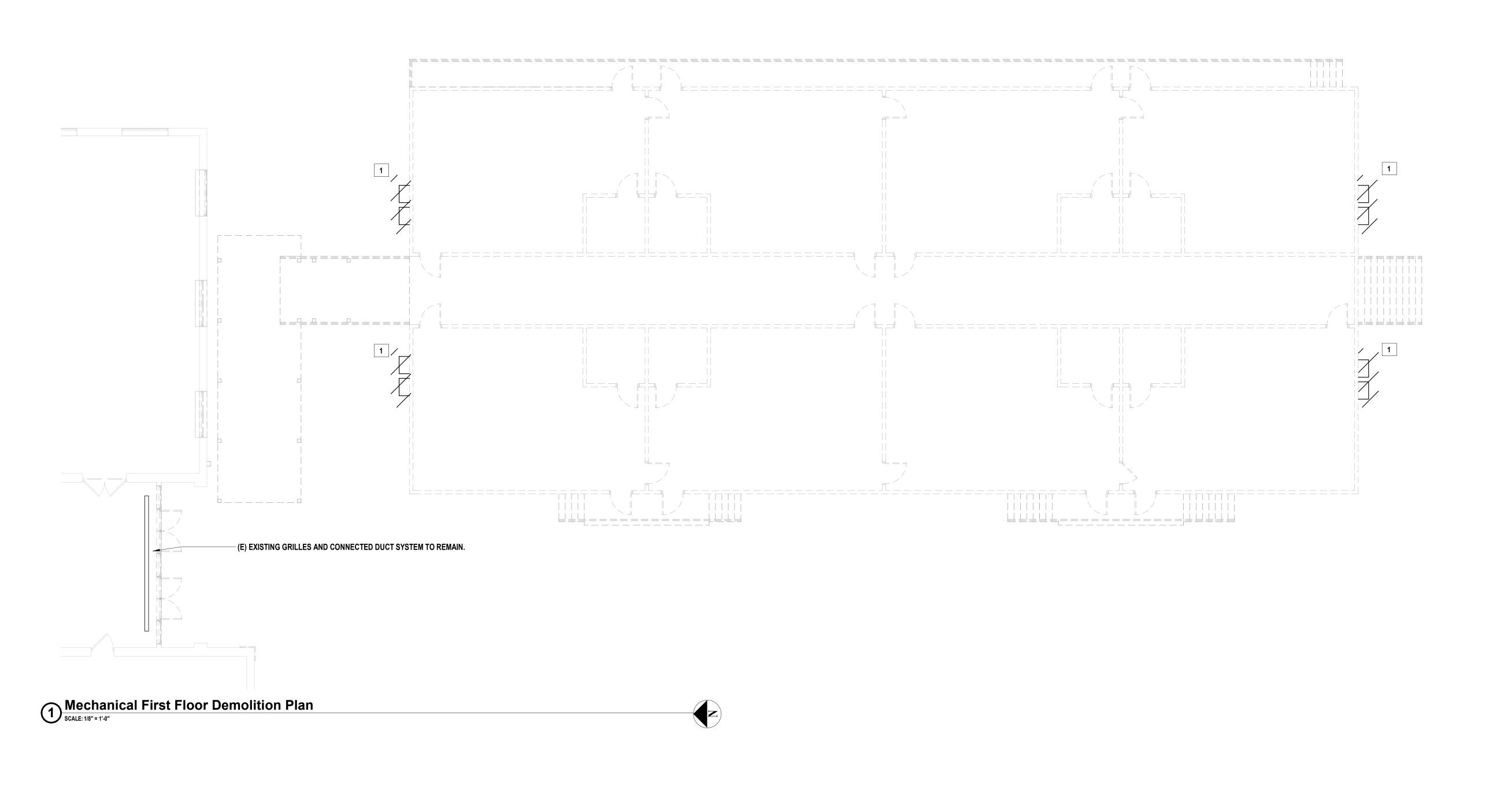
FINAL BID DOCUMENT

SHEET TITLE

MECHANICAL GENERAL NOTES & LEGENDS

VING No.

M 001.00



ACCUREX KITCHEN HOOD AND EXISTING CONNECTED DUCTWORK / EXHAUST FAN TO BE REMOVED AND DISPOSED OF. INFILL ALL INTERNAL/EXTEROR OPENINGS AS NECESSARY TO MATCH EXISTING CONSTRUCTION.

(E) SF-1 AND ASSOCIATED DUCTWORK TO BE REMOVED AND DISPOSED OF. CONNECTED DAMPERS TO BE REMOVED AND INTERNAL/EXTERIOR WALLS INFILLED TO MATCH EXISTING CONSTRUCTION. ADJACENT BAROMETRIC RELIEF DAMPER TO REMAIN.

EXISTING UNIT HEATER TO BE REMOVED. CUIT AND CAP WATER PIPING BACK TO MAINS AS CONDITIONS ALLOW. IF PIPING IS FOUND TO BE PART OF AN ACTIVE CIRCUIT, RE-ROUTE PIPING TO MAINTAIN HEATING CIRCUIT.

AREA OF WORK

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

KEYED NOTES:

1 REMOVE AND DISPOSE OF EXISTING WALL MOUNTED AIR CONDITIONERS.

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MARK DATE

DESCRIPTION

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT H

FINAL BID DOCUMENT

SHEET TITL

MECHANICAL FIRST FLOOR DEMOLITION PLAN

MD 110.00

Mechanical First Floor Construction Plan SCALE: 1/8" = 1'-0"

MECHANICAL CONSTRUCTION NOTES:

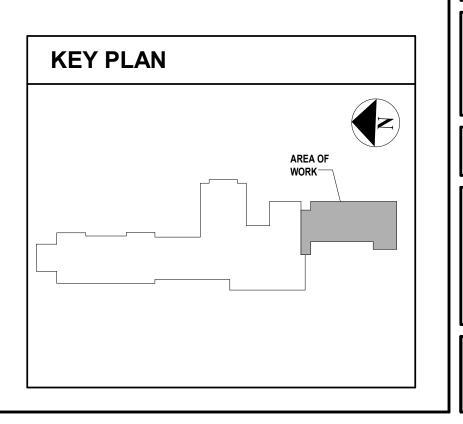
- 1. DO NOT SCALE DRAWINGS. LINE WORK IS SCHEMATIC. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON DESIGN INTENT AND COORDINATION WITH OTHER TRADES.
- 2. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' REQUIRED MAINTENANCE CLEARANCES AND PREVAILING CODE.
- 3. CONTRACTOR TO COORDINATE THE PLACEMENT OF ALL TEMPERATURE SENSORS WITH THE DISTRICT.
- 4. INSTALL ALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURERS' SIZING AND
- 5. PROVIDE NEW OAI LOUVERS WITH BIRDSCREEN FOR FAN COIL HEAT PUMP UNITS. CONTRACTOR TO ENSURE LOUVER INSTALLATION IS LEAK FREE.
- 6. PROVIDE VOLUME DAMPERS AS SHOWN IN DETAILS TO BALANCE FLOW FOR ALL SUPPLY DIFFUSERS.
- 7. PROVIDE INSULATION ON ALL CONCEALED DUCTWORK AND PIPING. REFER TO SPECS FOR SCHEDULE.
- 8. ALL UNITS SHALL BE INTERFACED WITH THE EXISTING BMS.
- 9. EXHAUST DUCTWORK ATTACHED TO KITCHEN HOOD SHALL BE COMPLIANT WITH NFPA 96 STANDARD AND NYS MECHANCIAL CODE 2020 SECTION 506.
- 10. CONTRACTOR TO COORDINATE DUCT SIZE THROUGH STRUCTURAL TRUSSES WITH TRUSS MANUFACTURER'S ALLOWED CLEARANCES.

KEYED NOTES:

- 1 PROVIDE 48"X10" HORIZONTAL OAI LOUVER AND LOW LEAKAGE MOTORIZED DAMPER TO PROTECT EXTERIOR OPENING.
- OUTSIDE INTAKE DUCT STACKED ABOVE RETURN AIR DUCT. DUCT SIZES TO MATCH UNIT VENTILATOR DUCT COLLAR. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS.
- FURNISH AND INSTALL REILIEF AIR DUCT TO GRAVITY VENTILATOR ON ROOF ABOVE. PROVIDE CLASS I LEAKAGE MOTORIZED SHUTOFF DAMPER TO PROTECT OPENING
- 4 ELECTRIC DUCT HEATER DISCHARGE AIR TEMPERATURE SENSOR AND THERMOSTAT TO SEND 0-10V CONTROL SIGNAL TO HEATER'S MODULATING SCR STAGE FOR PRECISE SETPOINT CONTROL. ELECTRONIC AIRFLOW SWITCH TO PROVE AIRFLOW BEFORE OPERATION.
- 5 FIRE AND FIRE SMOKE DAMPERS TO BE 1.5 HOUR RATED

GENERAL SCOPE OF WORK:

- 1. CLASSROOMS TO BE SERVED VIA 3 TON DAIKIN CEILING CONCEALED HEAT PUMP FAN COIL SYSTEMS. CONDENSING UNIT TO BE INSTALLED ON GRADE EXTERIOR TO CLASSROOMS.
- 2. VENTILATION AIR TO BE PROVIDED VIA EXTERIOR WALL LOUVERS DUCTED TO FAN COILS.
- 3. EXISTING EXHAUST HOOD TO BE RELOCATED INTO NEW ADDITION
- KITCHEN.
- 4. DUCTWORK CONNECTED TO KITCHEN HOOD TO BE CODE COMPLIANT BLACK IRON WITH CLEAN OUT DOORS AND INSULATION.
- 5. ENERGY RECOVERY VENTILATOR TO PROVIDE GENERAL KITCHEN
 EXHAUST AND VENTILATION AIR. SUPPLEMENTAL HEAT TO BE PROVIDED
 VIA 5KW ELECTRIC DUCT HEATER DOWNSTREAM ERV.
 DURING HOOD OPERATION, ADDITIONAL MAKEUP AIR WILL BE PROVIDED
 VIA TRANSFER GRILLES BETWEEN THE KITCHEN AND CAFETERIA.
- 6. KITCHEN GENERAL EHAUST PER NYS MC 2020 403.3.1.1: 0.7 CFM/SQ.FT. 644 CFM REQUIRED. ERV SIZED FOR 650 CFM.
- 7. 16-TON ROOFTOP UNIT TO SERVE CAFETERIA SPACE.



1 2 architecture of the contraction of the contract

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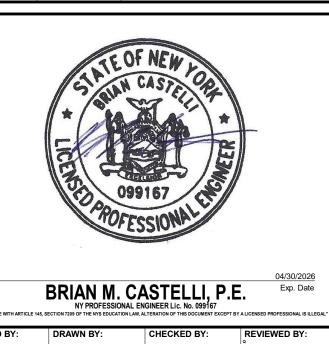
CIII TANTO.

MARK DATE DESCRIPTION

1 12/13/2024 SED ADDENDUM 1

1 123/25 ISSUED FOR BID

8/16/24 SED SUBMISSION



HCSD2401H JANUARY 2025 AS SHOWN
HARRISON Central
School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT H

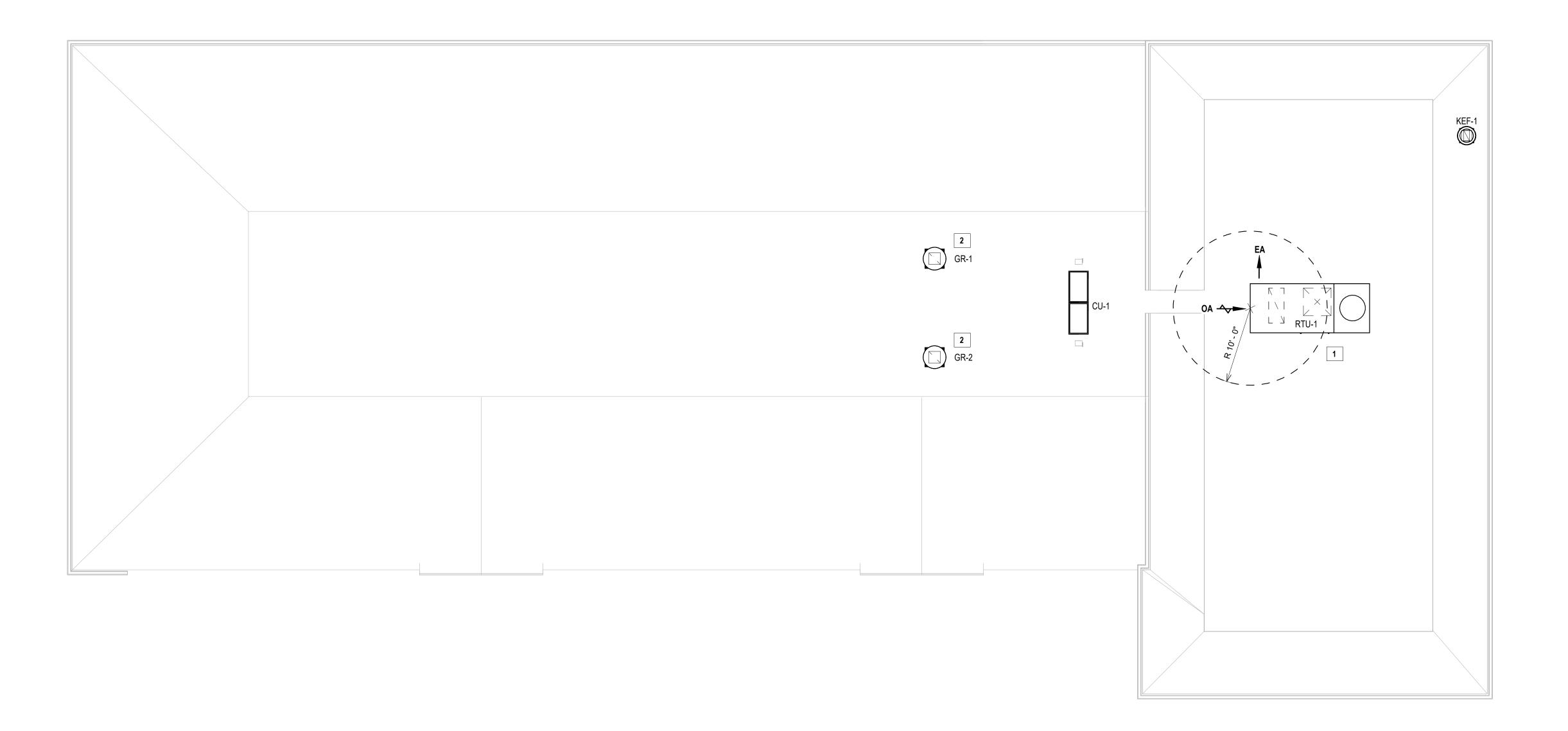
FINAL BID DOCUMENT

SHEET TITLE

CONSTRUCTION PLAN

MECHANICAL FIRST FLOOR

M 110.00



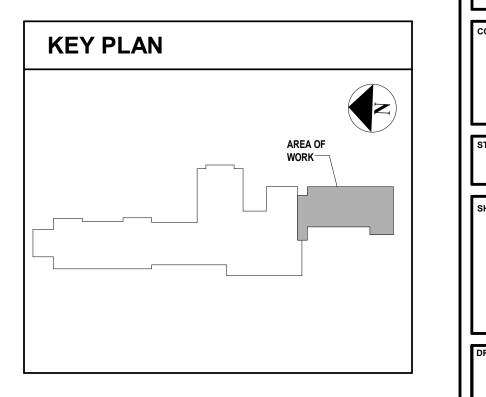


MECHANICAL CONSTRUCTION NOTES:

- 1. DO NOT SCALE DRAWINGS. LINE WORK IS SCHEMATIC. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON DESIGN INTENT AND COORDINATION WITH OTHER TRADES.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' REQUIRED MAINTENANCE CLEARANCES
 AND PREVAILING CODE.
- 3. CONTRACTOR TO PROVIDE SEISMIC/WIND RATED ROOF CURB MANUFACTURED THYBAR OR APPROVED EQUAL.
- 4. 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. WIND LOADS DETERMINED IN ACCORDANCE WITH 2020 NYS MC 301.15 & 2020 BC

KEYED NOTES:

- RTU O.A INTAKE TO BE A MIN. TEN (10) FEET AWAY FROM EXHAUST LOCATIONS. INSTALL EQUIPMENT A MINIMUM OF TEN (10) FEET AWAY FROM THE EDGE OF THE ROOF IN ACCORDANCE
- WITH BUILDING CODES AND OSHA REGULATIONS
- PROVIDE GREENHECK MODEL GRSR SIZE 24 GRAVITY VENTILATOR WITH 12" ROOF CURB



H 2 architects + engineers

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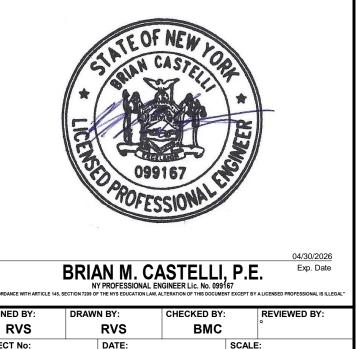
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CONSULTANTS:

MARK DATE DESCRIPTION

1 12/13/2024 SED ADDENDUM 1

1/23/25 ISSUED FOR BID
8/16/24 SED SUBMISSION



Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

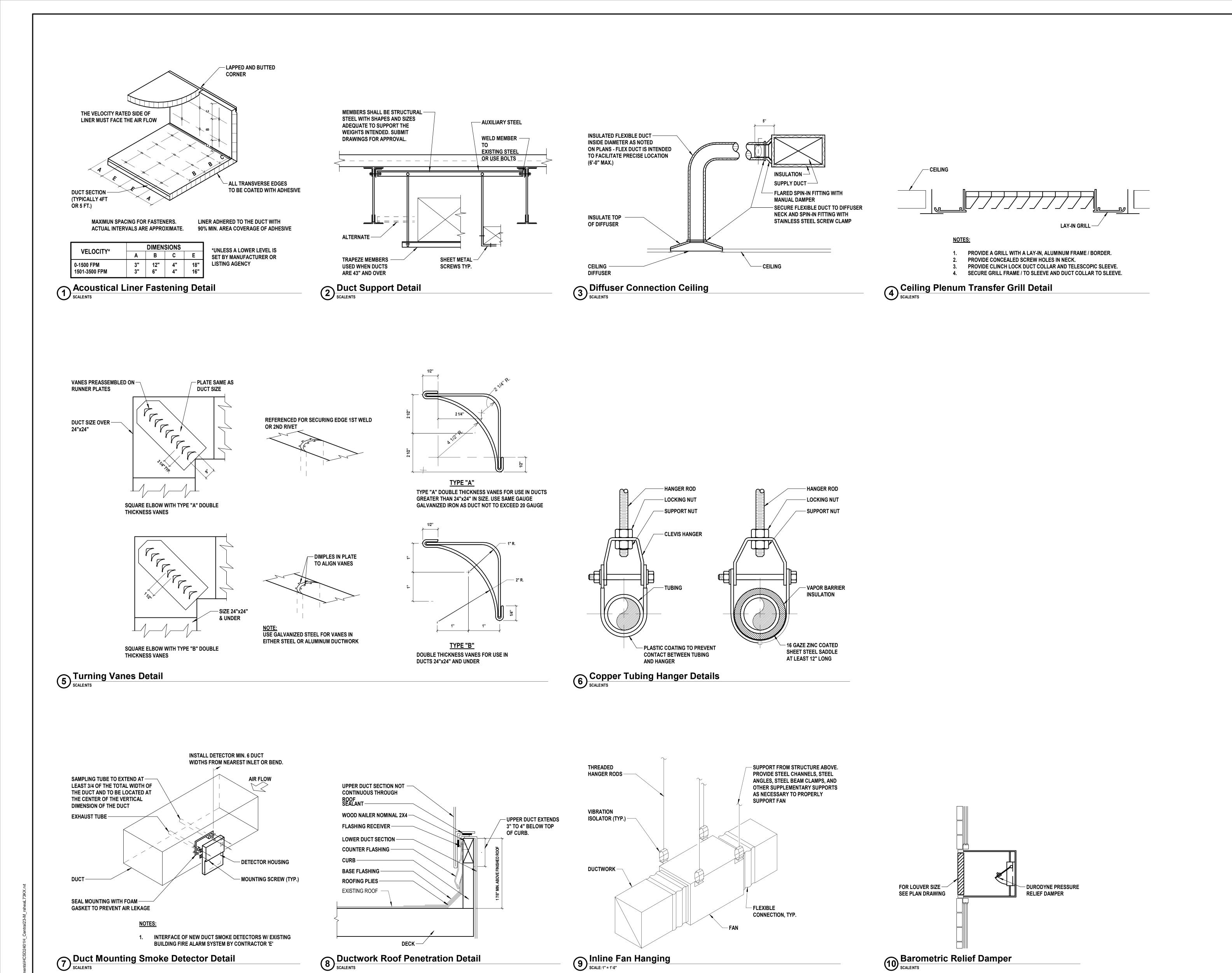
CONTRACT H

FINAL BID DOCUMENT

ET TITLE

MECHANICAL ROOF
CONSTRUCTION PLAN

M 140.00



9 Inline Fan Hanging
SCALE: 1" = 1'-0"

538 Broad Hollow Road, 4th Floor East Melville, NY 11747 631.756.8000 • www.h2m.com NY Architecture & Landscape Architecture: No Certificate Required NY Engineering Certificate of Authorization No.: 0018178 DESCRIPTION MARK DATE 12/13/2024 SED ADDENDUM 1 1/23/25 ISSUED FOR BID 8/16/24 SED SUBMISSION BRIAN M. CASTELLI, P.E.

NY PROFESSIONAL ENGINEER LIC. No. 099167

S SECTION 7996 OF THE PROFESSIONAL STATES AND THE PROFESSIONAL ENGINEER LIC. No. 099167 HCSD2401H JANUARY 2025 AS SHOWN **Harrison Central School District Building Addition at the Purchase Elementary School** 2995 Purchase Street Purchase, New York 10577 SED No.: 66-05-01-06-0-001-027 **CONTRACT H**

M 510.00

FINAL BID DOCUMENT

MECHANICAL DETAILS

EXHAUST FANS											(GRE	ENHECK	(AS B.O.D.)								
								SOUND DAT	ΓΑ					MOTOR	DATA						
TAG	MODEL WEIGHT AIRFLOV (CFM)	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. WG)	FAN RPM	MAX CLASS FAN RPM	/IN \	INLET (DBA)	OUTLET (DBA)	RADIATED (DBA)	ВНР	НР	ENCLOSURE	VOLTS	PHASE	HZ	RPM	FLA (A)	MCA (A)	MOCP (A)	NOTES	
KEF-1	CUE-140-VG	163	2200	.9	1560	1725	14 5/8	64	-	-	0.7	1	TEFC	208	3	60	1725	3.6	5	15	2, 8-12
TEF-1	SQ-98-VG	104	500	0.75	1793	2200	11	66	-	57	0.24	1	TENV	115	1	60	2200	10.4	13	25	1-7

1. ALL SINGLE PHASE MOTORS TO INCLUDE THERMAL OVERLOAD PROTECTION AND BUILT IN SOFT START FUNCTION

10. PROVIDE ALUMINUM VENTED CURB EXTENSION WITH FACTORY PROVIDED CURB CAP HINGE 2. MOTOR VOLTAGE TO BE COORDINATED BY CONTRACTOR PRIOR TO RELEASE 11. PROVIDE CLEAN-OUT PORT

3. PROVIDE NEMA-1 DISCONNECT SWITCH

12. FAN TO BE UL-705 LISTED - SUPPLEMENT SC - "POWER VENTILATORS FOR RESTAURANT EXHAUST APPLIANCES 4. PROVIDE 1" INSULATED HOUSING

5. PROVIDE LOW LEAKAGE CONTROL DAMPER MODEL VCD-23

6. PROVIDE 1" SPRING ISOLATORS 7. FAN TO BE CONTROLLED VIA TIME CLOCK

8. PROVIDE NEMA-3R DISCONNECT SWITCH 9. PROVIDE 12" PITCHED ROOF CURB WITH ALUMINUM LINER. CONTRACTOR TO VERIFY PITCH PRIOR TO RELEASE

		VENT	ILATION	INDEX BA	SED ON 202	20 MECHA	NICAL CODE	OF NEW YOR	RK STATE SEC	CTION 403	3.3.1.1	
ROOM#	ROOM NAME	OCCUPANCY CLASSIFICATION	FLOOR AREA (SF) Az	SUPPLY AIR (CFM)	OCCUPANCY LOAD (PERSONS / 1000 SF)	NUMBER OF OCCUPANTS Pz	OCCUPANT BASED OA RATE (CFM / OCCUPANT) Rp	AREA BASED OA RATE (CFM / SF) Ra	NON-ADJUSTED TOTAL OA REQUIRED (CFM)	EZ	ZONE OUTDOOR AIRFLOW (CFM)	REMARKS
17	OT/PT	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
18	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
19	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
20	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
24	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
23	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
22	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
21	CLASSROOM	EDUCATION: CLASSROOMS (AGES 5-8)	770	1000	25	20	10	.12	293	0.8	366	
27	CAFETERIA	FOOD SERVICE:CAFETERIA, FAST FOOD	2106	5600	100	211	7.5	.18	1963	0.8	2453	
-	CORRIDOR	EDUCATION: CORRIDORS	2923	1200	0	0	0	.06	176	0.8	220	
25	RESOURCE ROOM	EDUCATION: CLASSROOMS (AGES 5-8)	352	500	25	9	10	.12	133	0.8	166	
15	SECURITY	OFFICES: OFFICE SPACES	107	150	5	1	5	.06	12	0.8	15	

					PA	CKAGED	GAS FIF	RED RO	OOFTO	P UNI	Ē						(DA	IKIN	AS B.	O.D.)
			SUPPL	Y FAN		E	XHAUST FAN			cc	OCLING			GAS	S HEATING		E	ELECTRICA	NL	
TAG	MODEL	WEIGHT (LBS)	AIRFLOW (CFM) ESP (IN. WG) TSP (IN. WG)	MOTOR HP	AIRFLOW (CFM)	ESP (IN. WG)	MOTOR HP	EAT (DB/WB °F)	LAT (DB/WB °F)	TOTAL CAPACITY (BTU/HR)	AMBIENT (DB °F)	EAT LAT (DB °F)		GAS PRESSURE (IN. WC)	STAGES	VOLTAGE / PHASE	MCA	MOCP	EFFICIENCY (EER / IEER)
RTU-1	DPS016A	3844	5600 1.5	2.3	5	2400	1	4	82 / 68	57 / 57	193936	95	60 100	240000	5-14	12:1 TURNDOWN	208 / 3	96.6	125	11.1 / 19.9

1. UNIT TO INCLUDE 0-100% ECONOMIZER WITH COMPARATIVE ENTHALPY CONTROL

2. ECM MOTOR 3. COMBO 2" MERV-8 & 4" MERV-14 FILTERS 4. RETURN AIR SMOAKE DETECTOR 5. OUTDOOR AIR MONITOR

6. NON-FUSED DISCONNECT SWITCH

7. UNIT POWERED 115V GFI OUTLET

8. PHASE FAILURE MONITOR 9. BACNET/MSTP CARD, FACTORY INSTALLED 10. DDC SPACE SENSOR WITH SETPOINT ADJ. 11. 24" ROOF CURB

12. FACTORY INSTALLED SENSORS: - LEAVING COIL/ENTERING FAN TEMPERATURE SENSOR - DUCT HIGH LIMIT SWITCH - RETURN AIR TEMPERATURE SENSOR - DISCHARGE AIR TEMPERATURE SENSOR - OUTSIDE AIR TEMPERATURE SENSOR

- RETURN AIR ENTHALPY SENSOR - OUTSIDE AIR ENTHALPY SENSOR - DIRTY FILTER ON/OFF SWITCH - SUPPLY FAN AIR PROVING - BUILDING STATIC PRESSURE SENSOR - EBTRON AIRFLOW STATION

			VR	/ INDOO	R UNIT SO	CHEDULE						(DAIK	(IN AS B.O.D.)
						COOLING	HEATING		ELECTRICAL				
TAG	MODEL	ТҮРЕ	NOMINAL TONNAGE	CONDENSER	AIRFLOW (CFM)	TOTAL BTU/H	TOAL BTU/H	VOLTAGE / PHASE	MCA	MOCP	DIMENSIONS (WxHxD)	WEIGHT (LBS)	REMARKS
AC-1	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-2	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-3	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-4	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-5	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-6	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-7	FXMQ36TBVJU	HSP CONCEALED DUCTED UNIT	3	CU-1	1130	34464	41441	208 / 1	3.1	15	55.1 x 9.6 x 31.5	101.4	
AC-8	FXTQ60TAVJUD	MULTI POSITION AIR HANDLER	5	CU-1	1800	56761	70600	208 / 1	8.6	15	22.6 x 10.2 x22.6	149.9	
AC-9	FXZQ07TBVJU	2' x 2' CEILING CASSETTE	0.6	CU-1	307	7161	8872	208 / 1	0.3	15	24.5 x 58.0 x 21.0	35.3	

1. PROVIDE NON-FUSED DISCONNECT SWITCH

2. FURNISH AND INSTALL CONDENSATE LIFT MECHANISM AS PART OF A COMPLETE INDOOR UNIT SELECTION 3. PROVIDE WIRED REMOTE TEMPERATURE AND HUMIDITY SENSOR / CONTROLLER FOR EACH SERVED SPACE

4. PROVIDE POTTORFF EFD-245 OR APPROVED EQUIVALENT WALL LOUVERS WITH BIRD SCREEN AND FLANGES FOR FRESH AIR INTAKE. LOUVER SHALL BE ALL-ALUMINUM CONSTRUCTION. ARCHITECT TO

CONFIRM COLOR PRIOR TO RELEASE.

					Е	NERGY	RECOVER	Y VENTI	ILATOR								(G	REEN	HECK	AS B.C).D.)
				SUPPL	Y FAN			EXHAUST FA	ιN			SUMMER (C	OOLING)			WINTER (H	IEATING)			ELECTRICAL	-
TAG	MODEL	WEIGHT (LBS)	AIRFLOW (CFM)	ESP (IN. WG)	TSP (IN. WG)	MOTOR HP	AIRFLOW (CFM)	ESP (IN. WG)	TSP (IN. WG)	MOTOR HP		EXHAUST AIR TEMP. (DB/WB °F)	SUPPLY AIR TEMP. (DB/WB °F)	E.R.R.	ENTERING AIR TEMP. (DB/WB °F)	AIR TEMP.		E.R.R.	VOLTAGE / PHASE	MCA	MOCP
ERV-1	MINICORE-5-VG-P	215	650	0.5	0.62	1/2	650	0.5	0.62	1/2	90 / 77	75 / 63	80 / 70	51.3	13 / 10	72 / 56	48 / 39	54.2	115 / 1	14.4	25

1. PROVIDE NON-FUSED DISCONNECT SWITCH AND SINGLE-POINT POWER
2. PROVIDE 2" MERV 8 FILTER SECTION FOR SUPPLY AND EXHAUST FANS
5. E 3. PROVIDE MANUFACTURER'S STANDARD HANGING ISOLATION KIT

4. UNIT TO INCLUDE VARIABLE SPEED EC MOTORS WITH POTENTIOMETER/0-10V CONTROL
4. ONLY TO INCLUDE VARIABLE SPEED EC MOTORS WITH POTENTIONETER/0-10V CONTROL
5. ENERGY RECOVERY DEVICE TO BE WASHABLE POLYMER CORE. FIBER MEMBRANE IS NOT ACCEPTABLE

				ELE	ECTRIC	DUCT	HEAT	TERS				(NEPTRONIC AS B.O.D.)
								E	LECTRICAL			
TAG	MODEL	TYPE	DUCT DIMENSION (IN.)	AIRFLOW (CFM)	AIR VELOCITY (FPM)	CAPACITY (KW)	VOLTAGE (V)	PHASE (Ø)	OPERATING AMPS (A)	CONTROL VOLTAGE (V)	CONTROL TYPE	NOTES
EDH-1	DF CF00HB	ROUND	12 Ø	650	0.5	5	208	3	13.88	24	MOD. SCR 0-10V	1-4

NOTES:

1. HEATING ELEMENT TO BE OPEN COIL GRADE C TYPE 2. ELECTRONIC AIRFLOW SWITCH CAPABLE OF PROVING AIRFLOW DOWN TO 100 FPM

3. PROVIDE NEMA-1 CONTROL PANEL WITH DOOR INTERLOCK DISCONNECT 4. PROVIDE EXTENDED RANGE DUCT TEMPERATURE SENSOR AND CONTROL THERMOSTAT

5. HEATER TO BE BACNET COMPATIBLE

		В	AROMI	ETRIC A	IR REL	IEF DAN	/IPER	
TAG	LOCATION	FRAME THICKNESS	FRAME MATERIAL	BACK PRESSURE	BLADE THICKNESS	DAMPER SIZE	MANUFACTURER	MODEL
BRD-X	EXTERIOR WALLS	16 GAUGE	304 SS	2" WG	0.063"	40"X16"	GREENHECK	BR-30

1. PROVIDE LOUVER TO MATCH O.A. INTAKE LOUVER MODEL WITH EACH BAROMETRIC DAMPER 2. PROVIDE BIRD SCREEN

		AIR OU	TLETS			(TITUS AS B.O.D.)
				AIRFLOW F	RANGE (CFM)	
DESIGNATION	MODEL	DESCRIPTION	FACE SIZE (IN.)	MIN	MAX	NECK SIZE DIAMETER (IN.)
				0	200	6
		SQUARE FACE		201	315	8
Α	OMNI	CEILING	24X24	316	450	10
		DIFFUSER		451	650	12
				651	850	14
В	350RL	CEILING RETURN GRILLE	SEE PLANS	-	-	NA
С	50F	EGGCRATE RETURN GRILLE	SEE PLANS	-	-	NA
D	FL-20	HIGH THROW LINEAR DIFFUSER	2" 2-SLOT VARYING LENGTH	80-100	CFM / LF	12" SUPPLY PLENUM COLLAR

				E	ELECTRIC I	DUCT	HEATER	S			(NEPTRONIC AS
					ELECTRICA	L					
TAG	LOCATION	FLOW (CFM)	TOTAL CAPACITY (MBH)	TOTAL KW	VOLTS / PHASE	AMPS	MNF	MODEL NO.	NOMINAL DIMENSIONS LxWxH	NOMINAL OPERATING WEIGHT (LBS.)	REMARKS
EWH-1	VESTIBULE	100	5.1	1.5	120 / 1	12.5	QMARK	AWH3150F	16 x 6 x 20	25	1-5

NOTES:

1. PROVIDE AND INSTALL MOUNTING FRAME FOR RECESSED INSTALLATION

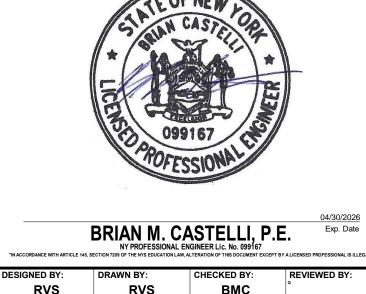
2. OVERHEAT MANUAL-RESET THERMAL CUTOUT 3. TAMPER PROOF INTERNAL THERMOSTAT

4. DOUBLE-POLE BACK BOX DISCONNECT 5. LFKSFCNW SECURITY COVER (WHITE)

				SPL	IT AIR C	ONDITIO	NER OU	TDOOR (JNIT				
		PERFORMANCE	/CONSTRUCTION	REQUIREMENTS		BASIS C	F DESIGN INFOR	MATION			ELECTRICAL	INFORMATION	
EQUIPMENT			Nominal Cooling	Nominal Heating								Minimum Circuit	Maximum Overcurrent
NUMBER	Location	Refrigerant Used	Capacity	Capacity	Manufacturer	Model	Overall Depth	Overall Height	Overall Width	Voltage	Phase	Amps	Protection
CU-1	Roof	R410A	288000.0 Btu/h	324000.0 Btu/h	Daikin	REYQ288AATJA	2' - 6 1/4"	5' - 5 1/2"	8' - 2 1/2"	230 V	3	96 A	120 A

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MARK	DATE	DESCRIPTION
	D/ (1 L	BESSIAI HOIV
	1/23/25	ISSUED FOR BID
	8/16/24	SED SUBMISSION



Harrison Central School District

HCSD2401H JANUARY 2025 AS SHOWN

Building Addition at the Purchase **Elementary School**



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

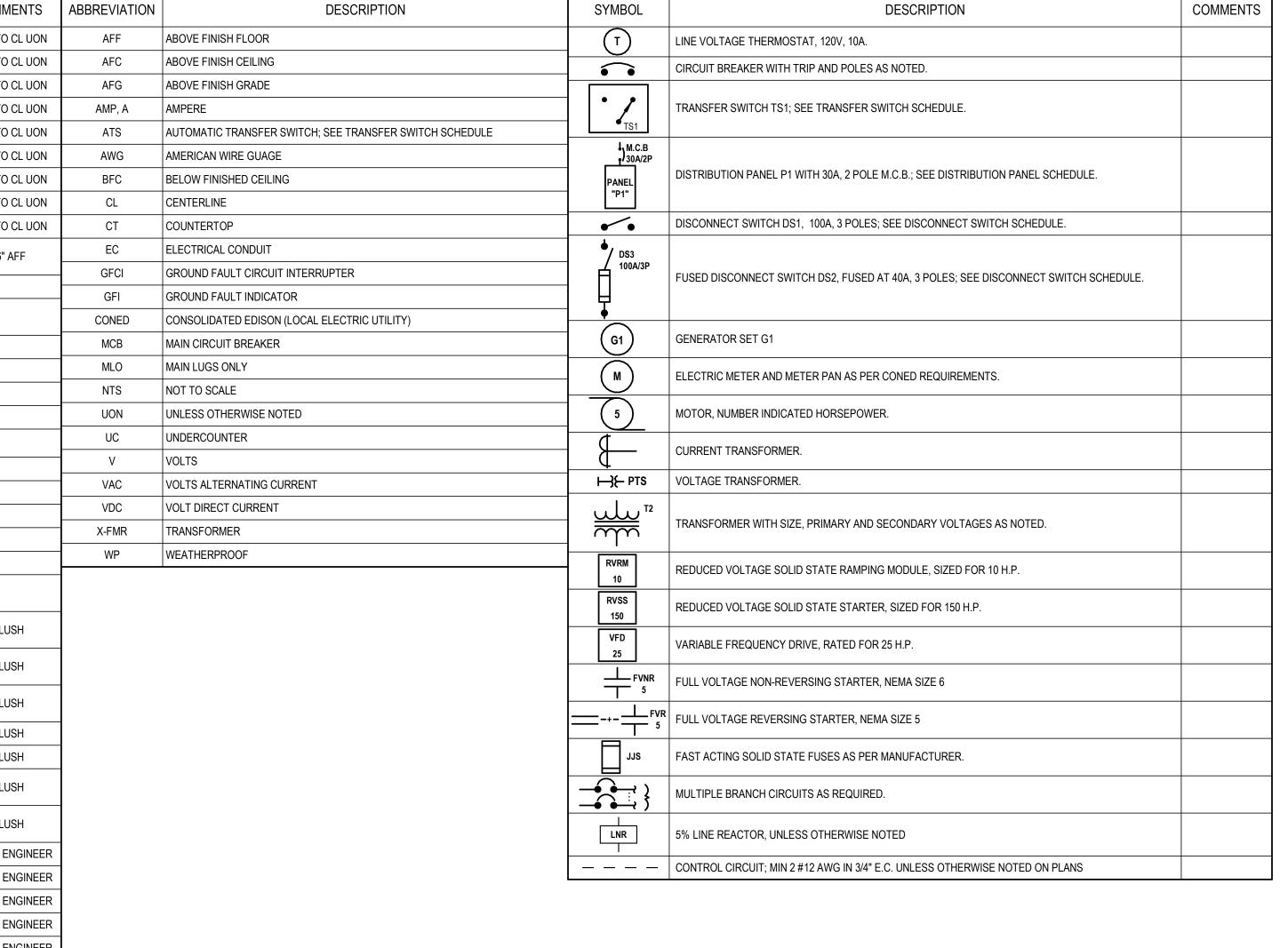
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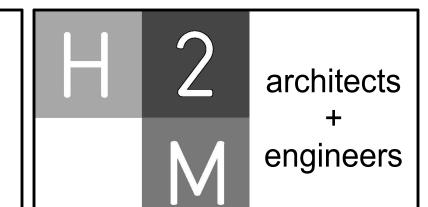
FINAL BID DOCUMENT

MECHANICAL SCHEDULES

M 610.00

S ₃	DESCRIPTION	COMMENTS	AE
- 3	THREE - WAY SWITCH	46" AFF TO CL UON	
S ₄	FOUR - WAY SWITCH	46" AFF TO CL UON	
Sı	ILLUMINATED SWITCH	46" AFF TO CL UON	
SA	SINGLE POLE SWITCH; "A" INDICATES SWITCH CONTROL	46" AFF TO CL UON	
S _D	SINGLE POLE DIMMER SWITCH	46" AFF TO CL UON	
S _{3D}	THREE - WAY DIMMER SWITCH	46" AFF TO CL UON	
S _K	SINGLE POLE KEYED SWITCH	46" AFF TO CL UON	
S _{K3}	KEYED THREE - WAY SWITCH	46" AFF TO CL UON	
S _{K4}	KEYED FOUR - WAY SWITCH	46" AFF TO CL UON	
S _M	HORSEPOWER RATED SWITCH, WITH INDICATOR (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)	46" AFF	
Sp	SWITCH AND PILOT LIGHT		_
S _T	SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)		
Sos	OCCUPANY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT		┡
TC	TIME CLOCK		┡
PC	PHOTOCELL		
PB	PUSH BUTTON		_
—) ^{E,G}	EMERGENCY SHUT OFF SWITCH; 'E' INDICATES ELECTRICAL; 'G' INDICATES GAS		L
Oos	OCCUPANCY SENSOR, CEILING MOUNT		<u> </u>
	OCCUPANCY SENSOR POWER PACK, MOUNTED ABOVE CEILING		<u> </u>
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		┡
	5 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		┡
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB		┝
LP1-35	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT No. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		
0-	SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	
-	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	
ф-	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH FLUSH	1
⊕ °	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT. DUPLEX RECEPTACLE: 120V, 20A; FLOOR MOUNTED.	FLUSH	-
© IG	ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	
GFI GFI	DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	_
⊖_ _{nc}	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER	AS PER ENGINEER	
⊖ ^{CT}	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEER	
⊕ ^{WP}	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF	AS PER ENGINEER	1
₩ 40 240	SPECIAL PURPOSE OUTLET: 240V, 40A. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEER	1
→_TL	TWISTED LOCK RECEPTACLE: 125V, 20A, 3 WIRE; UNLESS OTHERWISE NOTED.	AS PER ENGINEER	1
	SURFACE RACEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION, 18"		
	AFF UNLESS OTHERWISE NOTED.		
Ø			
Ø Ø _{s1}	AFF UNLESS OTHERWISE NOTED.		-
Ø	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE		
Ø Ø's1	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE		-
Ø Ø _{S1}	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.		-
	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX	-	
Ø ⊠' _{S1} □' _{DS1} ① ① ① 3 0 0 M	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT	-	
	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED		
Ø Signature Ø Signature Distance O O Ax O M	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING.	-	
Ø Si Si Di DS1 O O 4X O M T T1 P1	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE. ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE. ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.	-	
Ø ⊠'s1 □'DS1 0 0 0 1 1 1 1 1 1 1 1 1 1	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE. ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE.		
Ø Ø's1 □'DS1 0 0 0 4X 0 T T T P1 C O O O O O O P1 C O O O O O O O O O O O O	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE. ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE. ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.	-	
Ø St s1 D DS1 O 4x O s O M T 11	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE. ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE. ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE. CONDUIT GOING UP. CONDUIT GOING DOWN. PULLBOX	-	
Ø St s1 □ t DS1 O 4X O 5 T T1 P1 C O	AFF UNLESS OTHERWISE NOTED. TELEPHONE/POWER POLE MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE. JUNCTION BOX NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER. JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE. ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE. ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE. CONDUIT GOING UP. CONDUIT GOING DOWN.	-	





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CONSULTANTS:

MARK	DATE	DESCRIPTION
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	8/16/24	SED SUBMISSION



ANTHONY WOONGJIN KIM, P.E.

NY PROFESSIONAL ENGINEER LIC. No. 092583
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DESIGNED BY:

CMP/SMP

CMP

CMP

AWK

PROJECT NO:

DATE:

SCALE:

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT

CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

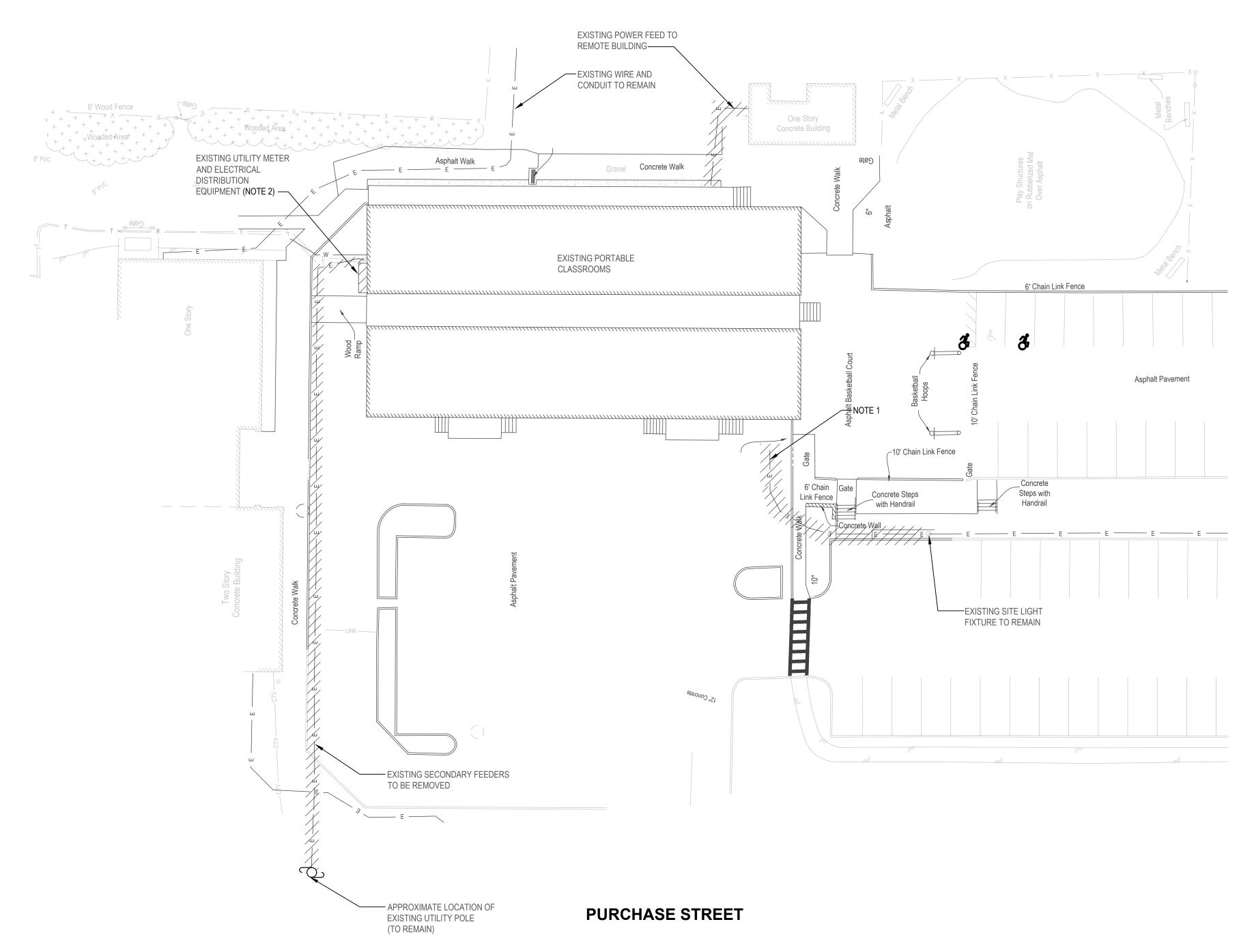
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ELECTRICAL LEGENDS

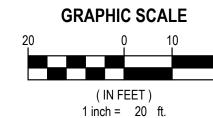
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1) Electrical Demolition Site Plan
SCALE: 1" = 20'-0"



SITE PLAN	N LEGEND
	CURB
	UTILITY POWER/TELEPHONE POLE
т——т	EXISTING TELEPHONE SERVICE
Е	EXISTING ELECTRICAL LINES
	EXISTING PRIMARY ELECTRIC SERVICE
OH/E	EXISTING OVERHEAD ELECTRIC LINES
— x — x — x — x —	EXISTING FENCE
	ELECTRIC PULL BOX
T	TRANSFORMER

- G2. LOCATION OF ALL UNDERGROUND UTILITIES BOTH PUBLIC AND CUSTOMER OWNED, WERE OBTAINED FROM EITHER MAPS, SURVEYS, DRAWINGS AND RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PRIVATE MARKOUT COMPANY FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN PROXIMITY OF
- G3. CONTRACTOR SHALL COMPLETELY RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO GRASS AREAS, LANDSCAPING, PAVEMENTS, SIDEWALKS, CURBING AND IN-GROUND SPRINKLER SYSTEMS.
- G4. THE CONTRACTOR SHALL PERFORM DAILY CLEAN-UP OPERATIONS WHICH INCLUDE REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
- G5. DURING ALL NON-WORKING HOURS, THE CONTRACTOR WILL BE REQUIRED TO STORE ALL EQUIPMENT AND MATERIALS WITHIN THE AREA DESIGNATED BY THE ENGINEER AT THE PROJECT SITE.
- G6. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
- G7. CONTRACTOR SHALL MINIMIZE REMOVAL OF EXISTING TREES. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LAYOUT, TAGGING AND REMOVAL OF TREES REQUIRED TO COMPLETE ALL WORK. OWNER SHALL APPROVE TREES TO BE REMOVED PRIOR TO ACTUAL REMOVALS. REMOVALS SHALL INCLUDE REMOVAL OF COMPLETE STUMP
- G8. CONCRETE SIDEWALKS SHALL BE SAWCUT BACK TO EXPANSION/ CONTROL JOINTS. G9. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL

ELECTRICAL SITE PLAN KEY NOTES:

1. CONTRACTOR SHALL DISCONNECT EXISTING EXTERIOR SITE LIGHTING CIRCUIT FROM EXISTING PANEL. SPLICE AND EXTEND AS NECESSARY TO TERMINATE EXISTING SITE LIGHTING CIRCUIT TO NEW ADDITION ELECTRICAL PANEL "PLR". STUB ALL CONDUITS INTO NEW BUILDING BELOW GRADE. NO EXTERIOR CONDUITS PERMITTED TO RUN EXPOSED ON EXTERIOR WALLS. SEAL ALL CONDUIT PENETRATIONS WITH DUCT SEAL FOR INTERIOR OF CONDUITS AND LINK SEAL ON EXTERIOR OF CONDUITS.

SITE PLAN	PLAN LEGEND								
	CURB								
\bigcirc	UTILITY POWER/TELEPHONE POLE								
т	EXISTING TELEPHONE SERVICE								
E	EXISTING ELECTRICAL LINES								
	EXISTING PRIMARY ELECTRIC SERVICE								
OH/E	EXISTING OVERHEAD ELECTRIC LINES								
—x—x—x—	EXISTING FENCE								
	ELECTRIC PULL BOX								

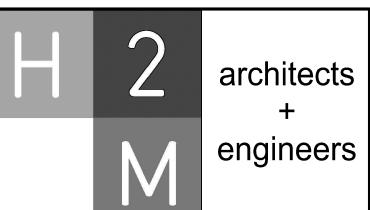
ELECTRICAL SITE PLAN GENERAL NOTES:

- G1. CONTRACTOR SHALL INSPECT CONSTRUCTION SITE PRIOR TO SUBMISSION OF BIDS AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
- CONSTRUCTION LIMITS.

- AND ROOT SYSTEM. CONTRACTOR NOT PERMITTED TO GRIND STUMPS.
- CONDUITS, WIRES, AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- G10. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.

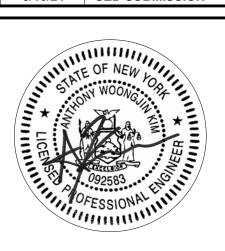
2. REMOVE AND DISPOSE OF EXISTING MAIN ELECTRICAL SERVICE EQUIPMENT IDENTIFIED. ALL CONDUITS AND WIRES BACK TO SOURCE.

.EGEN	NDS
	REMOVE & DISPOSE OF



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	8/16/24	SED SUBMISSION



ANTHONY WOONGJIN KIM, P.E. Exp. Date NY PROFESSIONAL ENGINEER Lic. No. 092583 HCSD2401H JANUARY 2025 AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

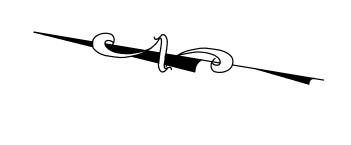
CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL DEMOLITION SITE PLAN

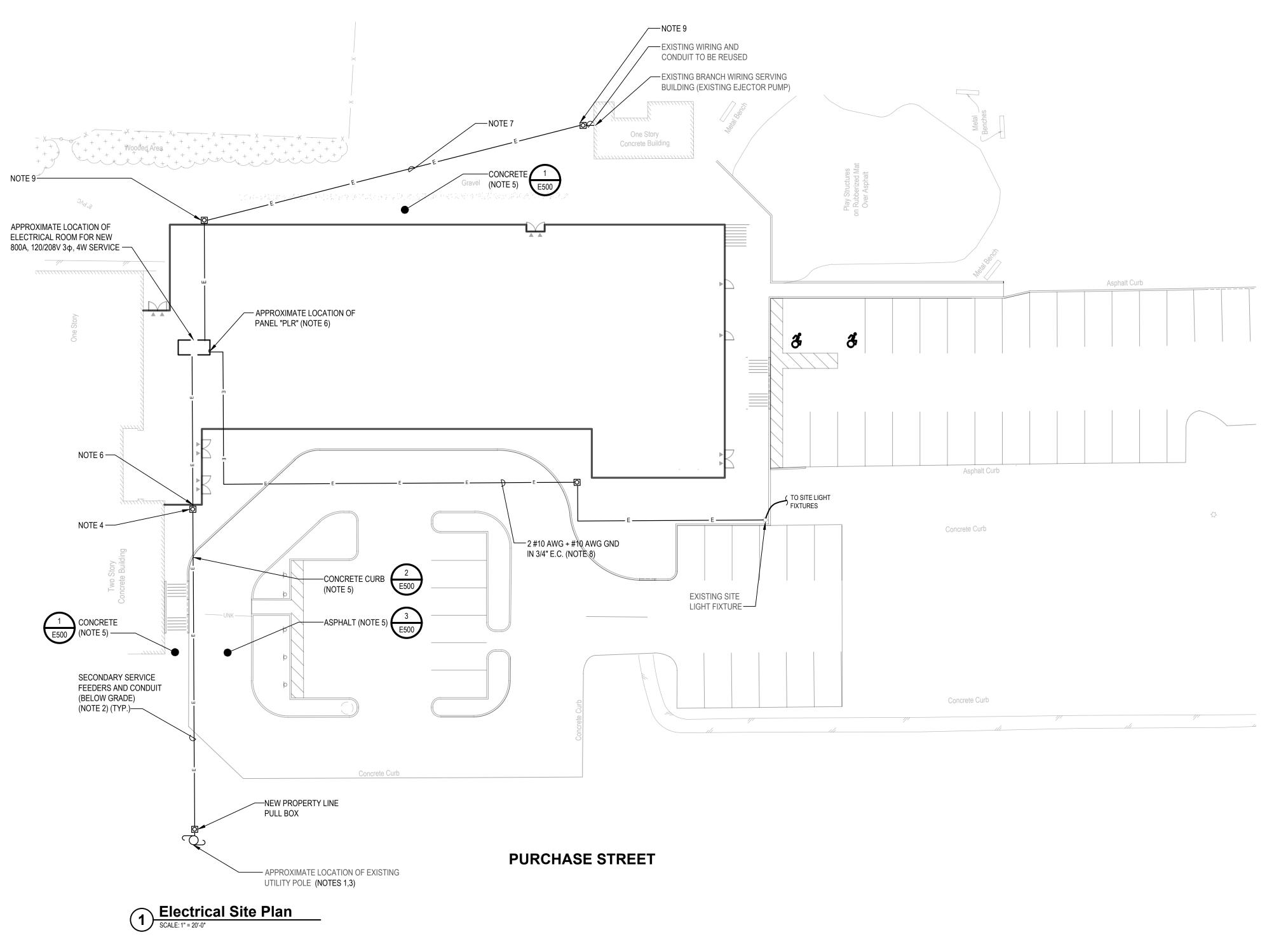
EDS100.00

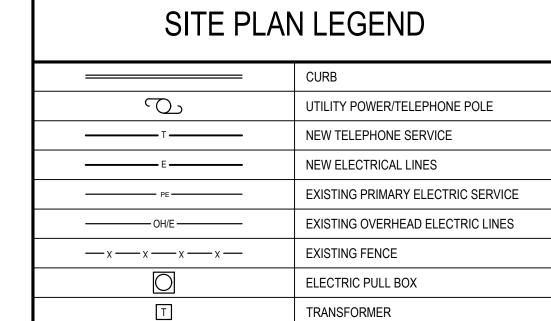




GRAPHIC SCALE

1 inch = 20 ft.





ELECTRICAL SITE PLAN GENERAL NOTES:

- AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS
- G2. LOCATION OF ALL UNDERGROUND UTILITIES BOTH PUBLIC AND CUSTOMER OWNED, WERE OBTAINED FROM EITHER MAPS, SURVEYS, DRAWINGS AND RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PRIVATE MARKOUT COMPANY FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN PROXIMITY OF CONSTRUCTION LIMITS.
- CONSTRUCTION, INCLUDING BUT NOT LIMITED TO GRASS AREAS, LANDSCAPING, PAVEMENTS, SIDEWALKS, CURBING AND IN-GROUND SPRINKLER SYSTEMS.
- G4. THE CONTRACTOR SHALL PERFORM DAILY CLEAN-UP OPERATIONS WHICH INCLUDE REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL TO THE SATISFACTION
- G5. DURING ALL NON-WORKING HOURS, THE CONTRACTOR WILL BE REQUIRED TO STORE ALL EQUIPMENT AND MATERIALS WITHIN THE AREA DESIGNATED BY THE ENGINEER AT THE PROJECT SITE.
- G6. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
- G7. CONTRACTOR SHALL MINIMIZE REMOVAL OF EXISTING TREES. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LAYOUT, TAGGING AND REMOVAL OF TREES REQUIRED TO COMPLETE ALL WORK. OWNER SHALL APPROVE TREES TO BE REMOVED PRIOR TO ACTUAL REMOVALS. REMOVALS SHALL INCLUDE REMOVAL OF COMPLETE STUMP
- G8. CONCRETE SIDEWALKS SHALL BE SAWCUT BACK TO EXPANSION/ CONTROL JOINTS.

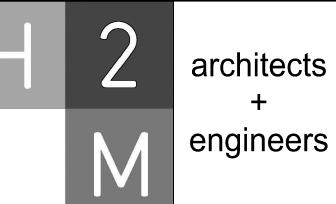
- 3. NEW POLE MOUNTED TRANSFORMER AS PER UTILITY REQUIREMENTS.
- 4. NEW PULL BOX. SITE PLAN SHOWS MINIMUM REQUIRED PULL BOXES. PROVIDE
- 5. SAWCUT EXISTING PAVEMENT/SIDEWALK/CURBING FOR INSTALLATION OF NEW
- 6. CONTRACTOR SHALL STUB ALL CONDUITS INTO NEW BUILDING BELOW GRADE. NO EXTERIOR CONDUITS PERMITTED TO RUN EXPOSED ON EXTERIOR WALLS. SEAL ALL CONDUIT PENETRATIONS WITH DUCT SEAL FOR INTERIOR OF CONDUITS AND LINK
- SEAL ON EXTERIOR OF CONDUITS. 7. CONTRACTOR SHALL PROVIDE AND EXTEND ALL WIRE AND CONDUIT ASSOCIATED
- 8. CONTRACTOR SHALL PROVIDE AND EXTEND ALL WIRE AND CONDUIT ASSOCIATED WITH EXTERIOR SITE LIGHTING CIRCUITS TO TERMINATE AT NEW PANEL "PLR". CONTRACTOR SHALL RELOCATE ANY ASSOCIATED EXTERIOR LIGHTING CONTROL
- 9. NEW ELECTRICAL FEEDERS SHALL BE SPLICED INTO EXISTING FEEDERS FEEDING BURIAL SPLICE KIT AS REQUIRED, MANUFACTURER:3M, MODEL: 72-N.

SITE PLAI	SITE PLAN LEGEND					
	CURB					
D	UTILITY POWER/TELEPHONE POLE					
т	NEW TELEPHONE SERVICE					
E	NEW ELECTRICAL LINES					
PE	EXISTING PRIMARY ELECTRIC SERVICE					
OH/E	EXISTING OVERHEAD ELECTRIC LINES					
— x — x — x — x —	EXISTING FENCE					
	ELECTRIC PULL BOX					
F	TRANCFORMER					

- G1. CONTRACTOR SHALL INSPECT CONSTRUCTION SITE PRIOR TO SUBMISSION OF BIDS
- G3. CONTRACTOR SHALL COMPLETELY RESTORE ALL AREAS DISTURBED DURING
- OF THE OWNER AND THE ENGINEER.
- AND ROOT SYSTEM. CONTRACTOR NOT PERMITTED TO GRIND STUMPS.

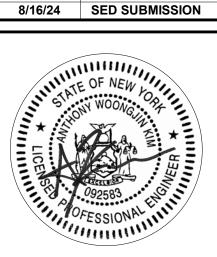
ELECTRICAL SITE PLAN KEY NOTES:

- 1. NEW ELECTRIC SERVICE RISER AS PER UTILITY REQUIREMENTS.
- 2. REFER TO SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT INFORMATION.
- ADDITIONAL PULL BOXES AS REQUIRED BY NEC AND UTILITY SERVICE.
- CONDUITS. REMOVE AND DISPOSE OF ALL DEBRIS..
- WITH EXTERIOR BATHROOM STRUCTURE CIRCUITS TO TERMINATE AT NEW PANEL "PLR" IN ACCORDANCE WITH NEC 225.30. REFER TO PANEL SCHEDULES FOR MORE
- EQUIPMENT TO NEW ADDITION BUILDING ELECTRICAL ROOM.
- EXISTING REMOTE BUILDING IN NEW PULL BOX. CONTRACTOR SHALL PROVIDE



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ANTHONY WOONGJIN KIM, P.E. Exp. Date
NY PROFESSIONAL ENGINEER Lic. No. 092583 HCSD2401H JANUARY 2025 AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

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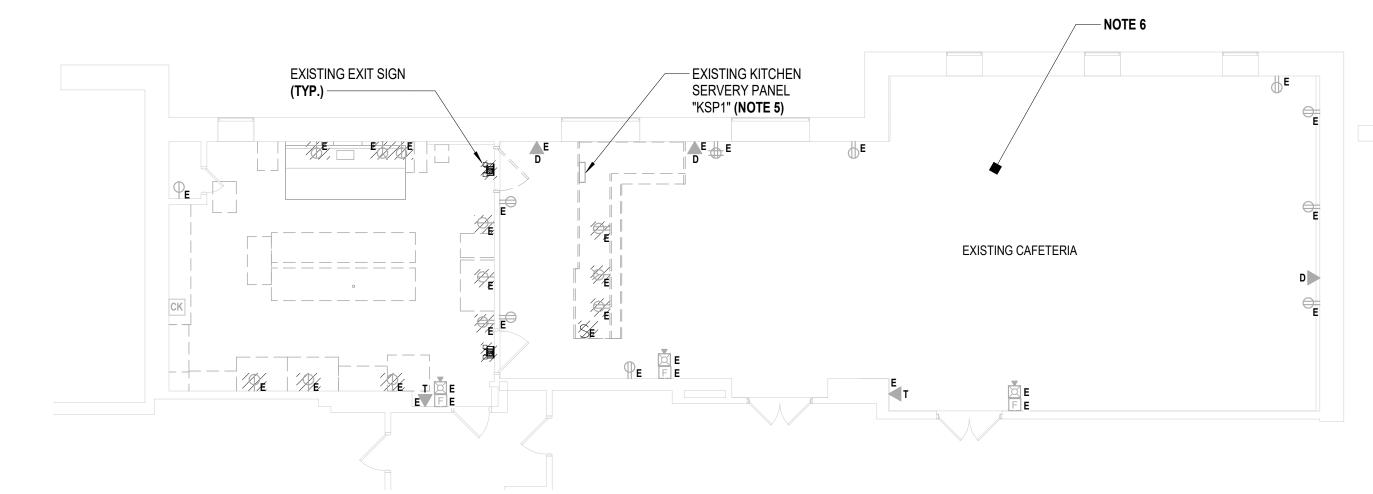
ELECTRICAL SITE PLAN

ES100.00



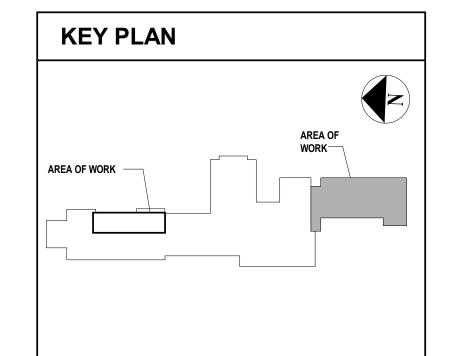
First Floor Electrical Demolition Plan

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



First Floor Existing Cafeteria Electrical Demolition Plan

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



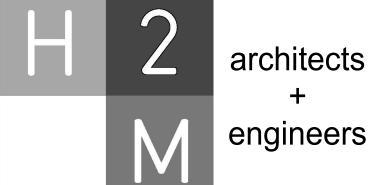
DEMOLITION GENERAL NOTES:

- G1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES, AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- G2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- G3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.

DEMOLITION KEY NOTES:

- 1. REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT AND WIRING DEVICES INCLUDING BUT NOT LIMITED TO PANELBOARDS, LIGHT FIXTURES, SPEAKERS, FIRE ALARM DEVICES, SWITCHES, SENSORS, DATA AND/OR TELEPHONE OUTLETS, RECEPTACLES, AND FACEPLATES, AND ALL ASSOCIATED CONDUITS AND WIRES BACK TO SOURCE.
- 2. REMOVE AND DISPOSE OF ALL EXTERIOR ELECTRICAL EQUIPMENT AND LIGHT FIXTURES. ALL ASSOCIATED WIRE AND CONDUITS BACK TO SOURCE.
- REMOVE AND DISPOSE OF EXISTING MAIN ELECTRICAL SERVICE EQUIPMENT IDENTIFIED. ALL CONDUITS AND WIRES BACK TO SOURCE.
- 4. EXISTING WIRING DEVICES, WITH SUBSCRIPT "R" TO BE RELOCATED. NEW LOCATION OF EXISTING DEVICES ARE SHOWN WITH SUBSCRIPT "R" ON ASSOCIATED CONSTRUCTION DRAWING. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED TO RELOCATE EXISTING DEVICES. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED.
- 5. EXISTING KITCHEN SERVERY PANEL SHALL BE RELOCATED TO CAFETERIA IN NEW ADDITION TO REFEED RELOCATED SERVERY EQUIPMENT. COORDINATE NEW MOUNTING LOCATION WITH ARCHITECT/DISTRICT IN FIELD. PROVIDE AND INSTALL ALL MOUNTING ACCESSORIES AS REQUIRED. REMOVE AND DISPOSE OF ALL MAIN FEEDERS, BRANCH WIRING, AND CONDUITS BACK TO SOURCE.
- 6. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO BALLAST, LAMPS, HOUSING, ASSOCIATED CONTROL AND SWITCHES BACK TO SOURCE. EXISTING CIRCUIT(S) TO REMAIN FOR RE-USE.





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ANTHONY WOONGJIN KIM, P.E. Exp. Date

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CCORDANCE WITH ARTICLE 145, SECTION 7289 OF THE NY'S EDUCATION LAW, ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL

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CMP/SMP CMP AWK

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HCSD 2401H JANUARY 2025

AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



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SED No.: 66-05-01-06-0-001-027

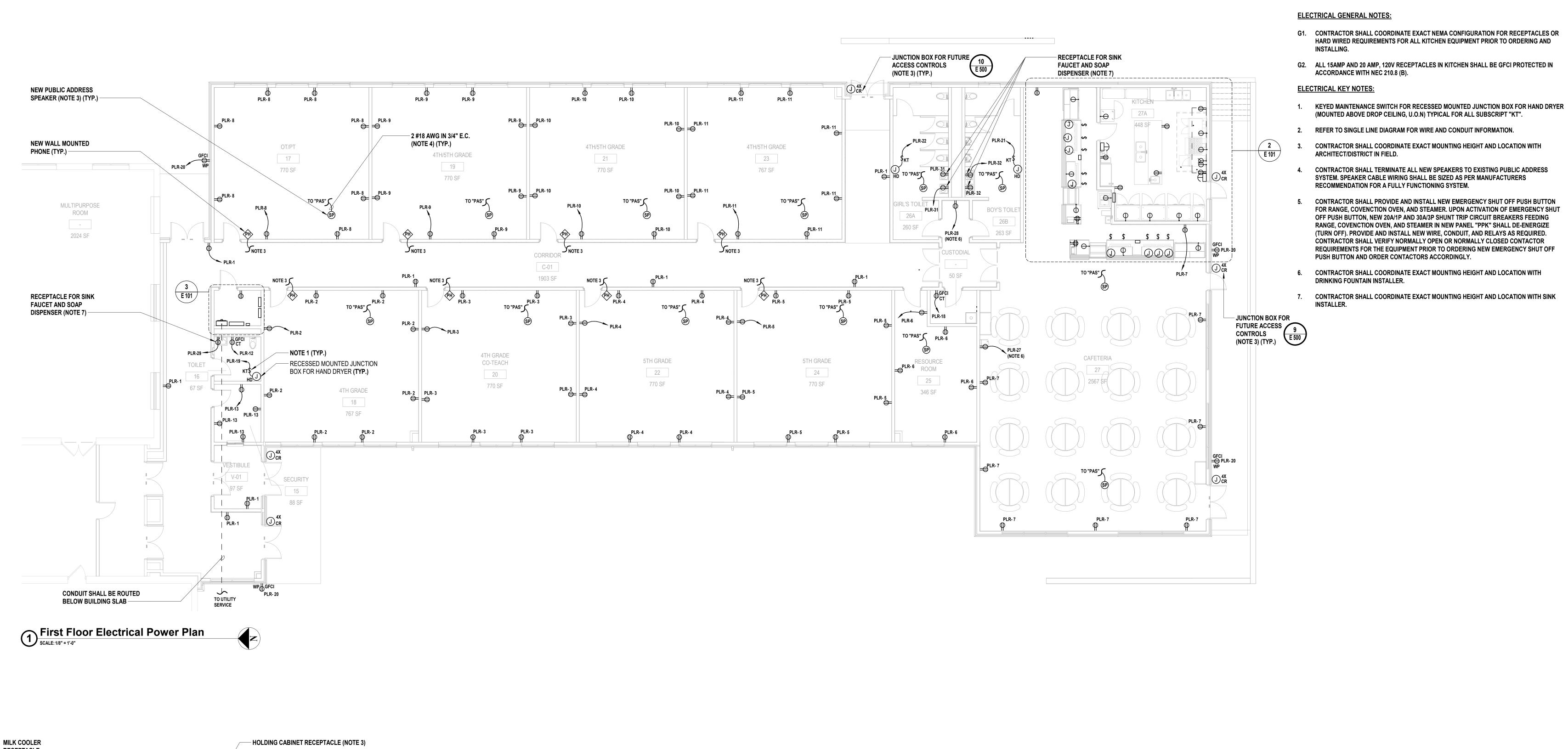
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ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

FIRST FLOOR ELECTRICAL DEMOLITION PLAN

ED 141.00



- G1. CONTRACTOR SHALL COORDINATE EXACT NEMA CONFIGURATION FOR RECEPTACLES OR HARD WIRED REQUIREMENTS FOR ALL KITCHEN EQUIPMENT PRIOR TO ORDERING AND
- G2. ALL 15AMP AND 20 AMP, 120V RECEPTACLES IN KITCHEN SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.8 (B).

ELECTRICAL KEY NOTES:

- (MOUNTED ABOVE DROP CEILING, U.O.N) TYPICAL FOR ALL SUBSCRIPT "KT".
- REFER TO SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT INFORMATION.
- CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/DISTRICT IN FIELD.
- CONTRACTOR SHALL TERMINATE ALL NEW SPEAKERS TO EXISTING PUBLIC ADDRESS SYSTEM. SPEAKER CABLE WIRING SHALL BE SIZED AS PER MANUFACTURERS RECOMMENDATION FOR A FULLY FUNCTIONING SYSTEM.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW EMERGENCY SHUT OFF PUSH BUTTON FOR RANGE, COVENCTION OVEN, AND STEAMER. UPON ACTIVATION OF EMERGENCY SHUT OFF PUSH BUTTON, NEW 20A/1P AND 30A/3P SHUNT TRIP CIRCUIT BREAKERS FEEDING RANGE, COVENCTION OVEN, AND STEAMER IN NEW PANEL "PPK" SHALL DE-ENERGIZE (TURN OFF). PROVIDE AND INSTALL NEW WIRE, CONDUIT, AND RELAYS AS REQUIRED. CONTRACTOR SHALL VERIFY NORMALLY OPEN OR NORMALLY CLOSED CONTACTOR REQUIREMENTS FOR THE EQUIPMENT PRIOR TO ORDERING NEW EMERGENCY SHUT OFF
- PUSH BUTTON AND ORDER CONTACTORS ACCORDINGLY. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH

KEY PLAN

APPROXIMATE LOCATION
OF DATA ROOM 113 IT
RACK ON FIRST FLOOR —

- APPROXIMATE LOCATION

OF PAS IN MAIN OFFICE (ON FIRST FLOOR)

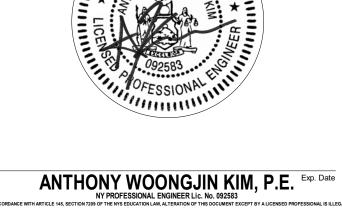
CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH SINK



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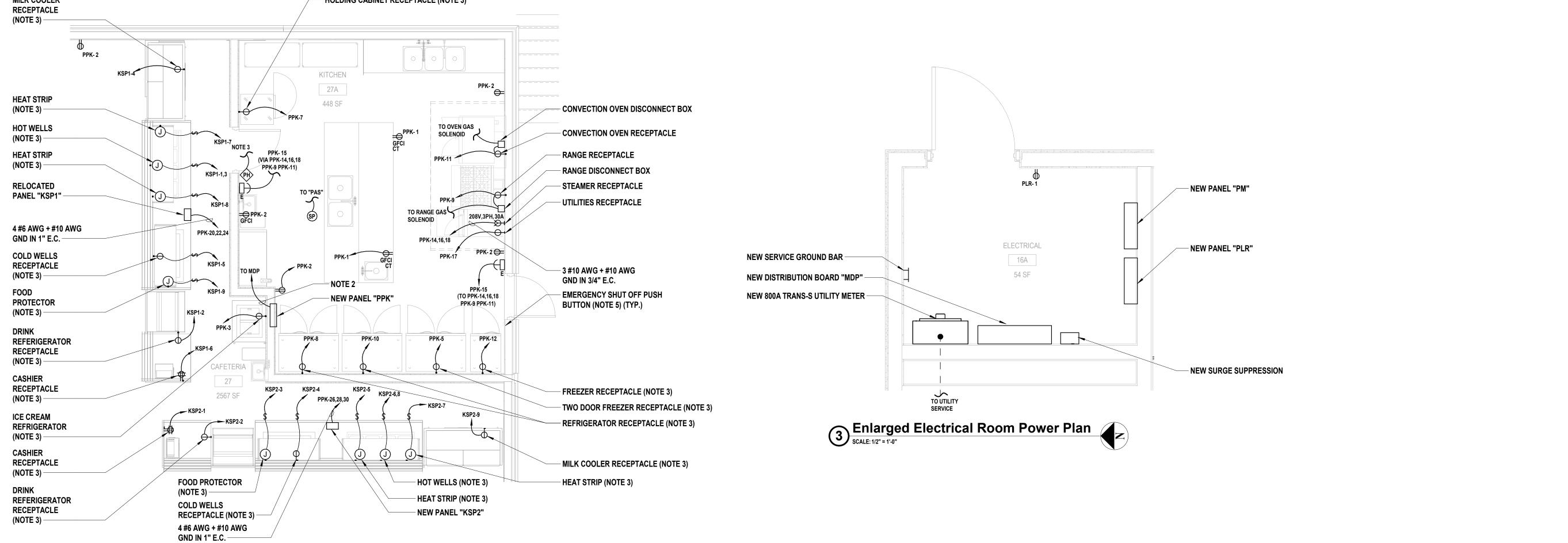
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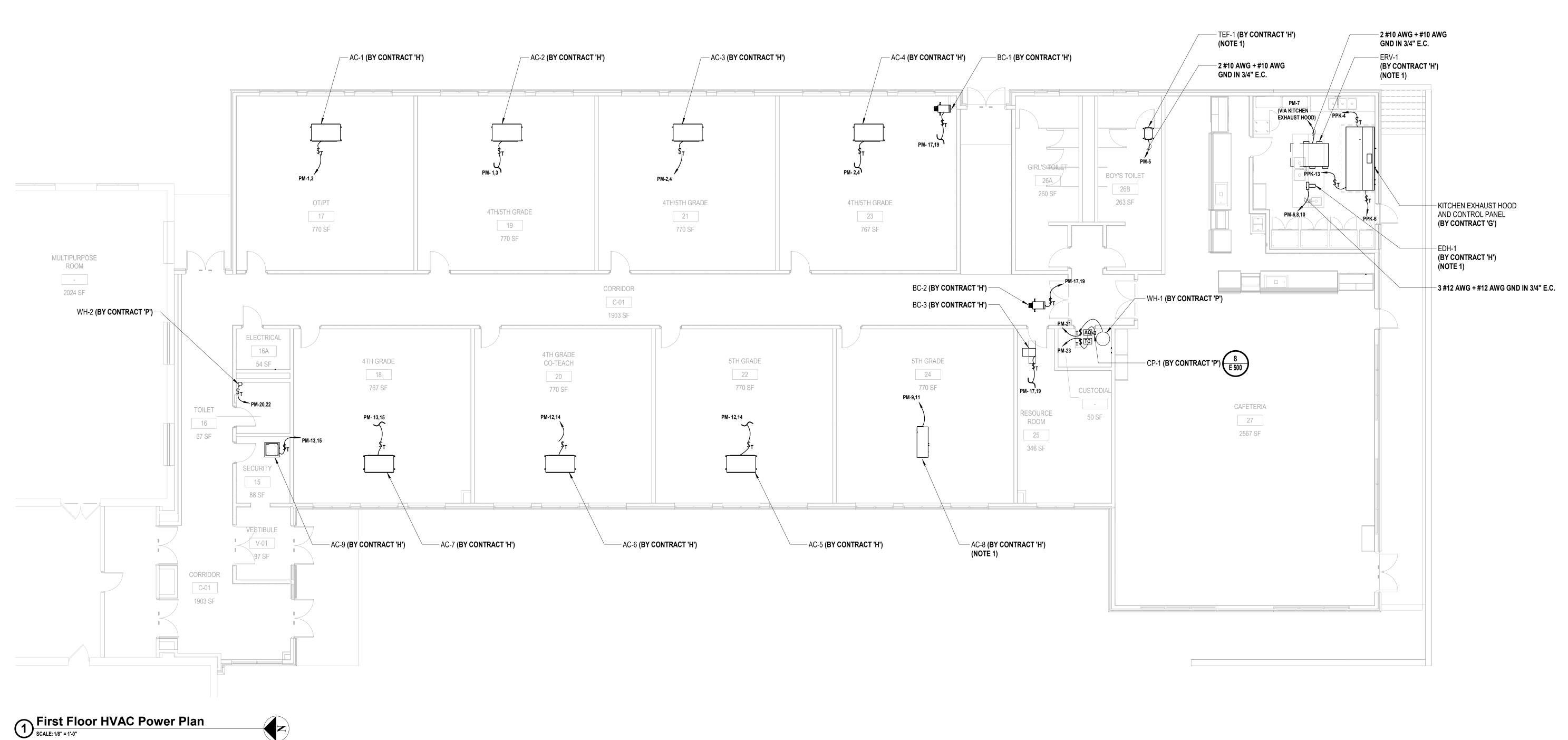
FIRST FLOOR ELECTRICAL **POWER PLAN**

E 101.00



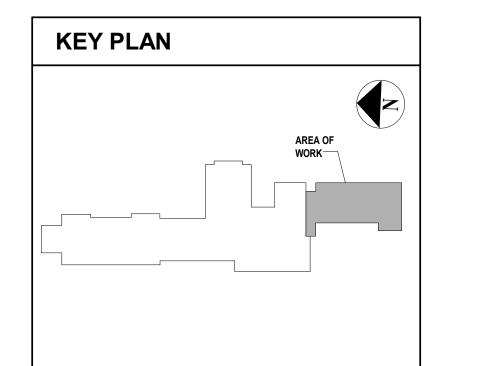
Enlarged Kitchen Power Plan

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



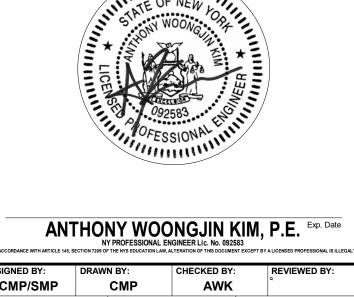
ELECTRICAL KEY NOTES:

1. MANUFACTURER PROVIDED DISCONNECT SWITCH.



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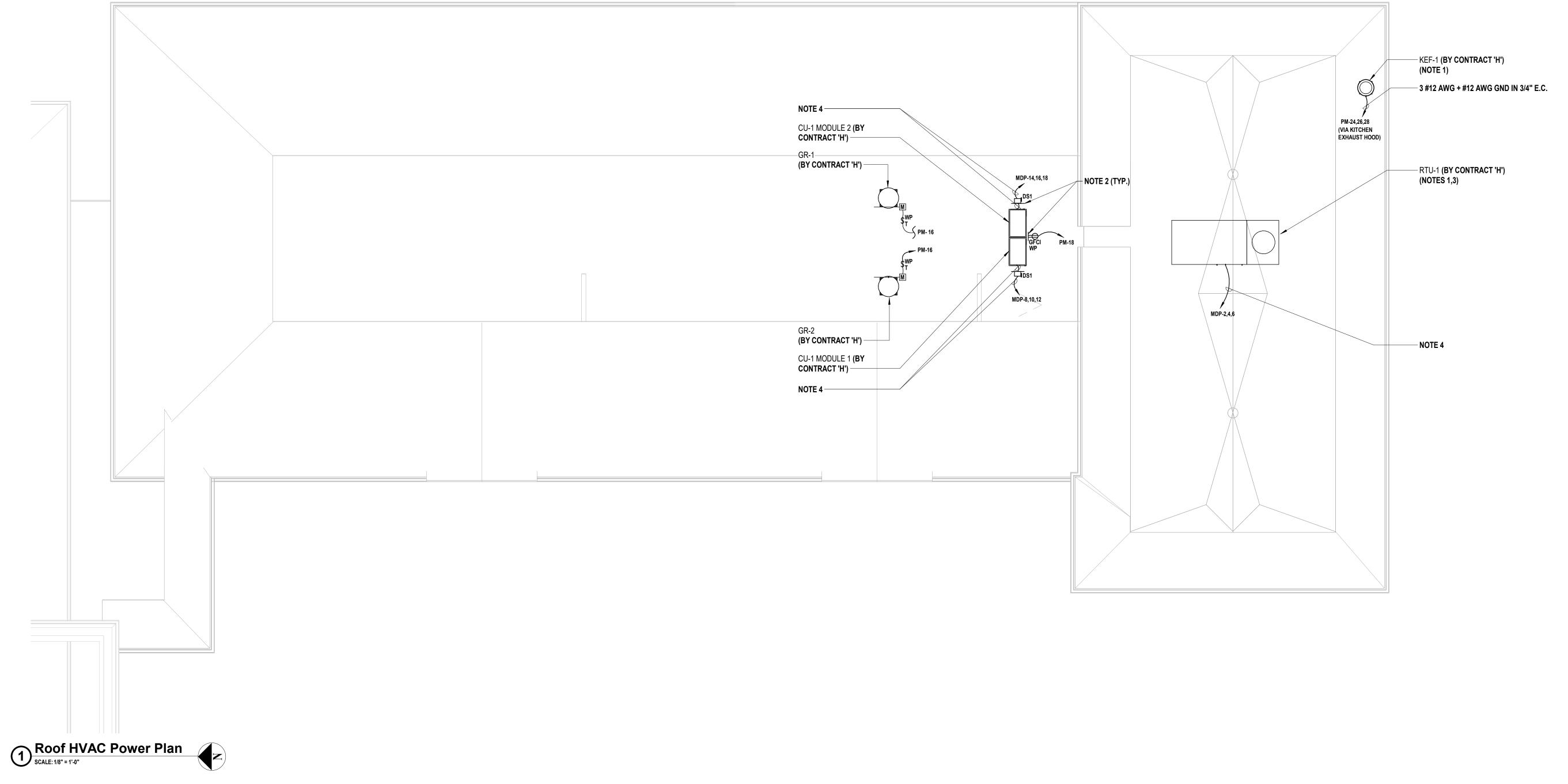
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FIRST FLOOR HVAC POWER PLAN

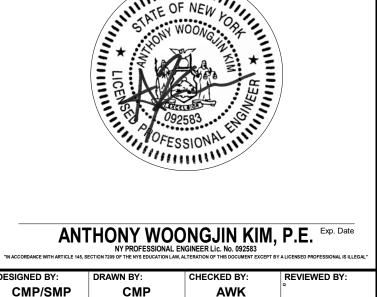
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KEY PLAN

ROOF HVAC POWER PLAN

E 112.00

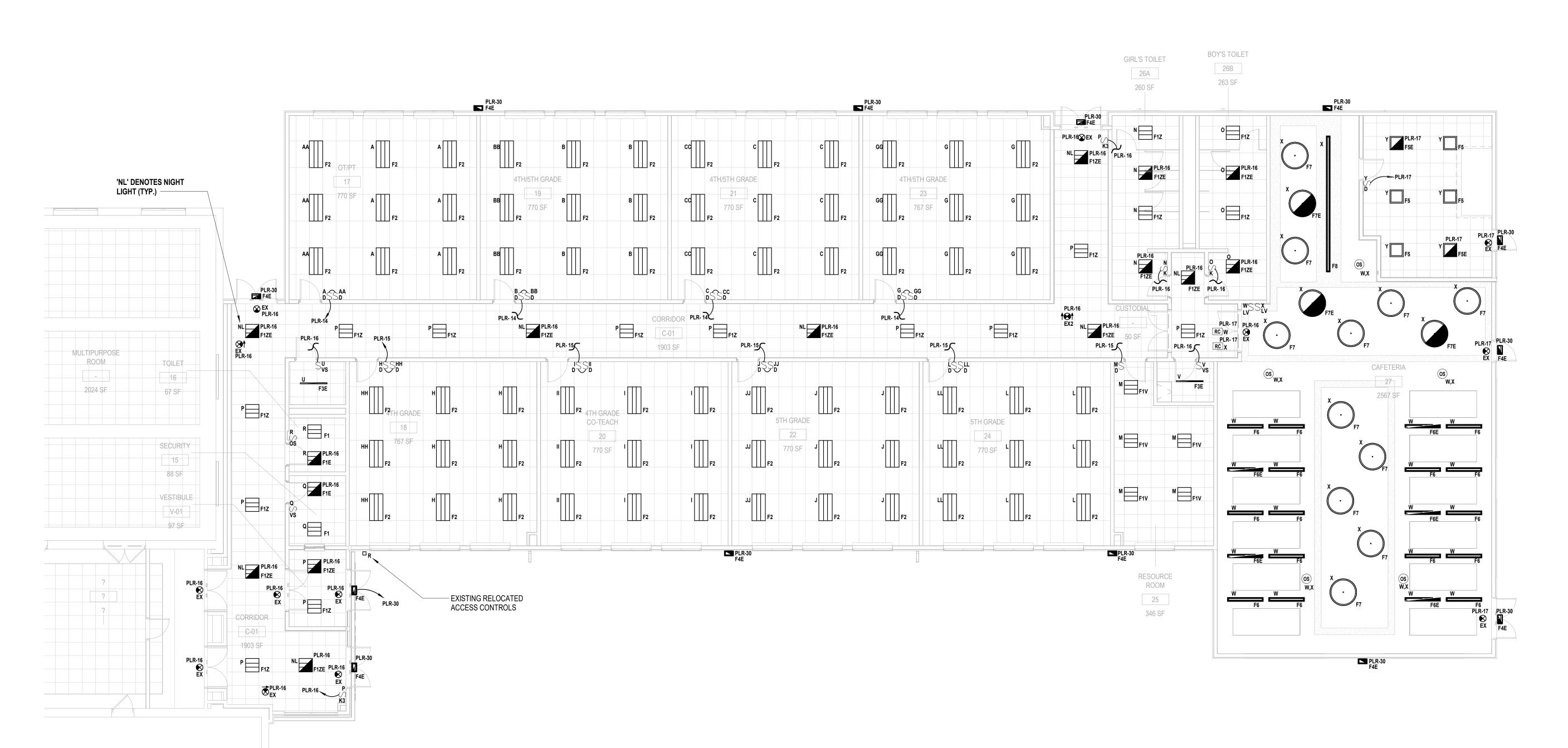
ELECTRICAL KEY NOTES:

1. MANUFACTURER PROVIDED DISCONNECT SWITCH.

CONTRACTOR SHALL PROVIDE AND INSTALL A CHANNEL SUPPORT SYSTEM AS REQUIRED TO MOUNT DISCONNECT SWITCH AND CONVENIENCE RECEPTACLE FROM THE ROOF CURBS SUPPORTING THE HVAC UNIT SUCH THAT THE UNIT'S MANUFACTURER'S WARRANTY IS NOT VOIDED. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO MAINTAIN WORKING CLEARANCE AS PER NEC 110.26. MAINTAIN ALL CLEARANCES FROM THE HVAC UNIT AS REQUIRED BY THE IMC.

MANUFACTURER PROVIDED POWERED CONVENIENCE OUTLET.

4. REFER TO SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT INFORMATION.



LIGHTING GENERAL NOTES:

- 1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES, CONTROLLERS AND/OR OCCUPANCY SENSORS FOR COMPLETE LIGHTING CONTROL. WHERE 3 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.
- 2. CONTRACTORS SHALL LOCATE AND INSTALL ALL LIGHT FIXTURES IN MECHANICAL ROOMS TO PROVIDE CLEARANCE FROM ALL MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING FIXTURES, SWITCHES, CONDUIT, AND WIRING.
- 3. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.
- 4. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH, OCCUPANCY SENSOR AND/OR POWER PACK WITH CORRESPONDING LETTER DESIGNATION.
- 5. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED
- 6. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES, OCCUPANCY SENSORS, AND/OR POWER PACKS.
- ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVERS AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING 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 FED FROM.
- 8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVERS SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT POLE FIXTURE.
- 9. CONTRACTOR SHALL USE SILICONE WATER PROOF SEALANT TO SEAL TOP, LEFT, AND RIGHT EDGES OF LIGHT FIXTURES TO WALL TO PREVENT MOISTURE FROM ACCUMULATING BEHING FIXTURE. BOTTOM EDGE SHALL BE LEFT UNSEALED FOR DRAINAGE. COLOR OF SILICONE SHALL MATCH EITHER WALL COLOR OR FIXTURE COLOR. (TYP. OF ALL WALL MOUNTED EXTERIOR FIXTURES).

LIGHTING KEY NOTES

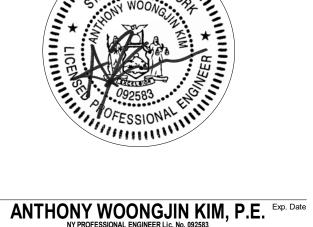
1. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING LIGHTING CIRCUIT SERVING THIS ROOM TO TERMINATE AT NEW LIGHT FIXTURE AND SWITCH. WIRE AND CONDUIT SHALL BE 2 #12 AWG + #12 AWG GND IN 3/4" E.C.

H 2 architects
+ engineers

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ANTHONY WOONGJIN KIM, P.E. EXP. Date

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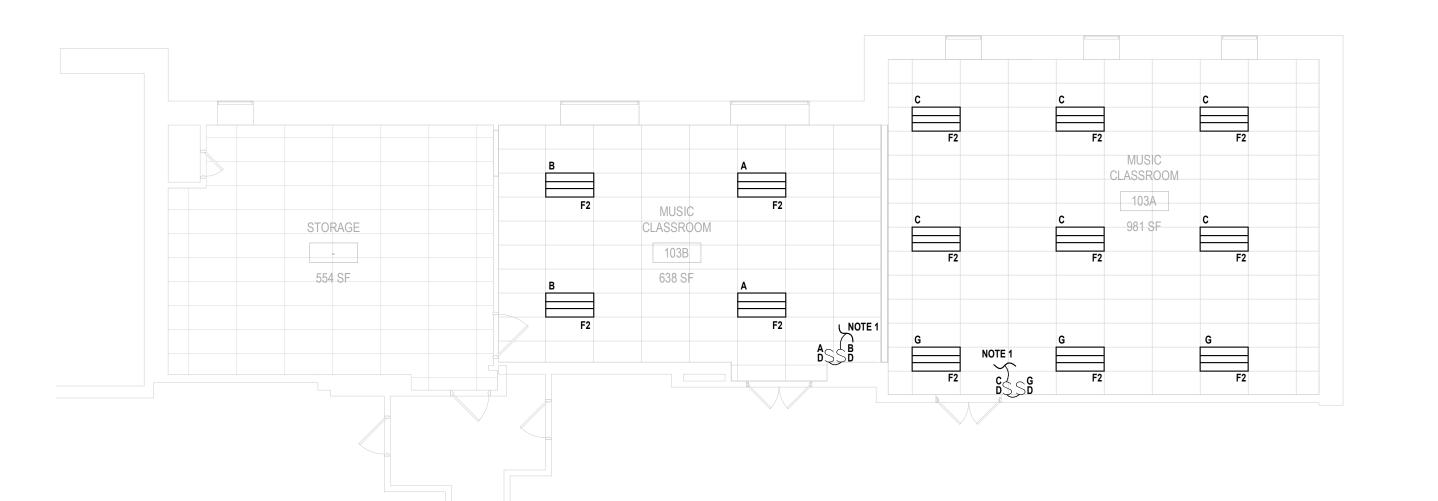
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FINAL BID DOCUMENT

SHEET TITLE

FIRST FLOOR ELECTRICAL LIGHTING PLAN

E 121.00



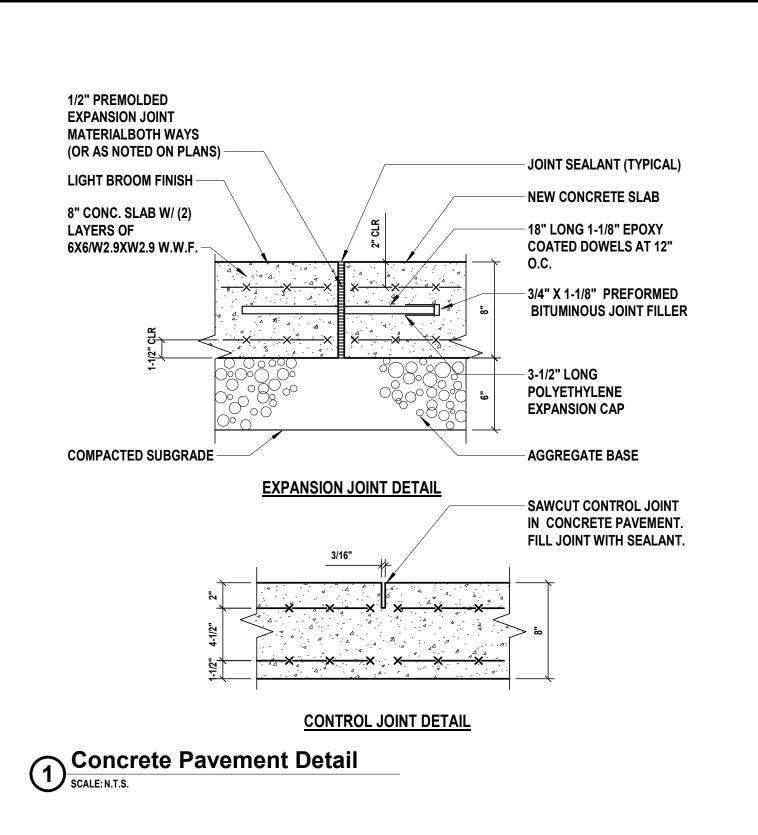
Partial First Floor Electrical Lighting Plan

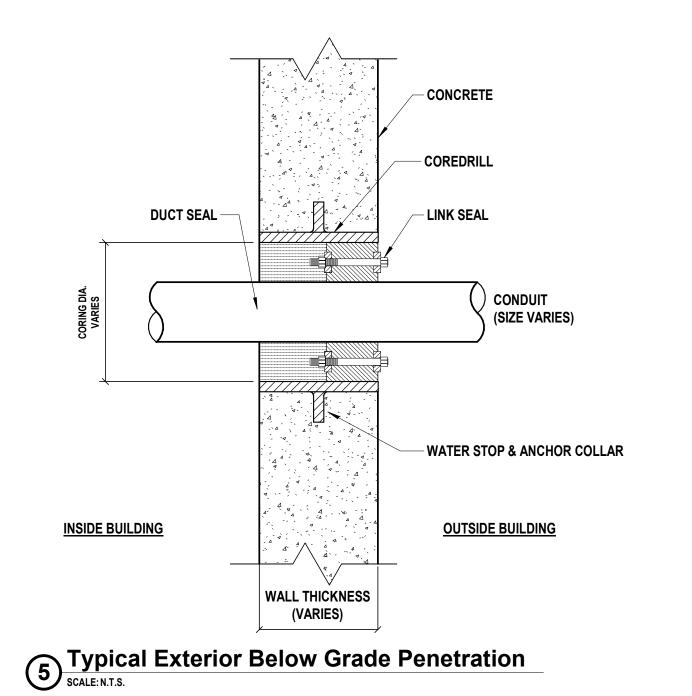
SCALE: 1/8" = 1'-0"

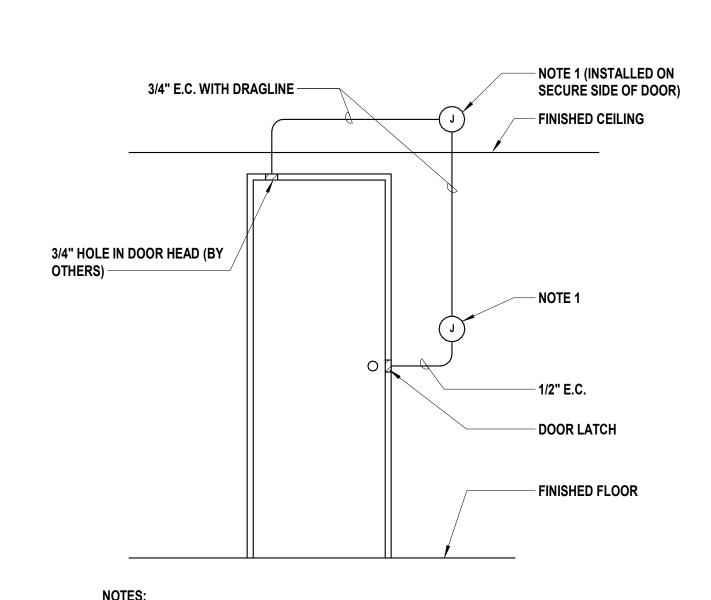
First Floor Electrical Lighting Plan

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

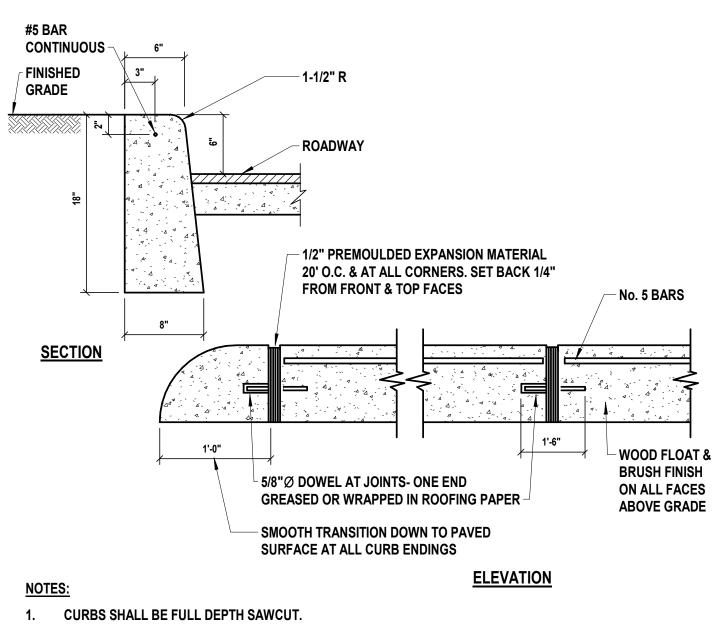
AREA OF WORK





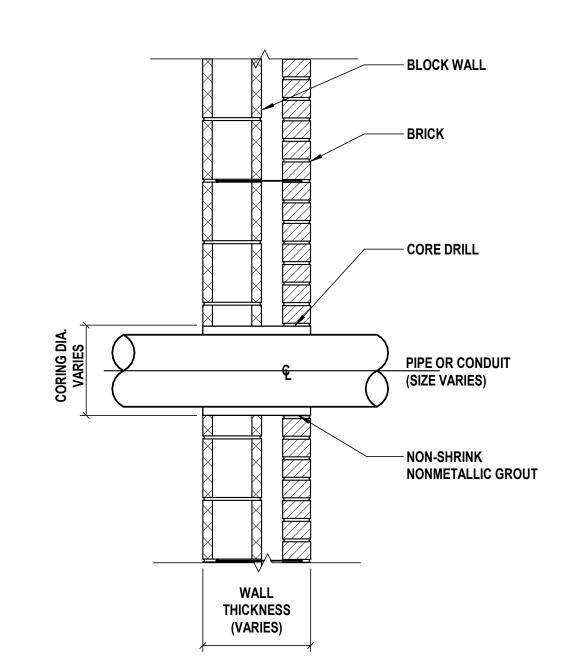


- 1. CONTRACTOR SHALL INSTALL JUNCTION BOX SUPPLIED BY OWNER. 2. COORDINATE INSTALLATION AND EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/ENGINEER IN FIELD.
- 9 Secuirty System Conduit Detail (Single Door)
 SCALE: 12" = 1'-0"

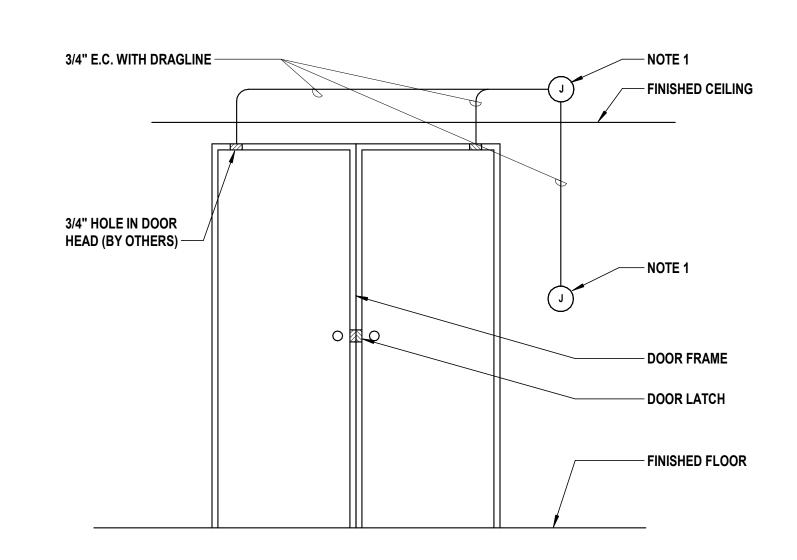


REMOVE CURB FROM SAWCUT TO NEAREST EXPANSION JOINT. PROVIDE NEW EXPANSION JOINTS AT BOTH ENDS OF NEW CURB. PROVIDE NEW DOWELS AT EACH END INTO EXIST. CURB. Concrete Curb Detail

SCALE: N.T.S.



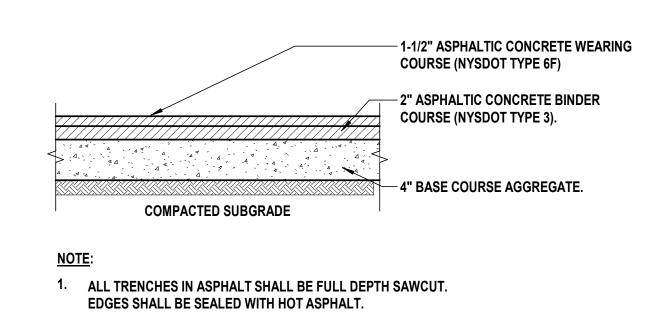
6 Typical Penetration Through Brick Wall



CONTRACTOR SHALL INSTALL JUNCTION BOX SUPPLIED BY OWNER. 2. COORDINATE INSTALLATION AND EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT/ENGINEER IN FIELD.

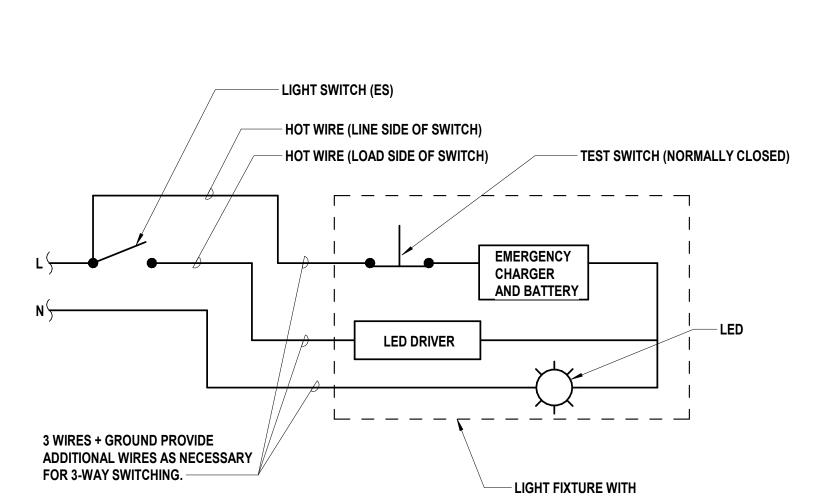
Security System Conduit Detail (Double Door)

SCALE: N.T.S.

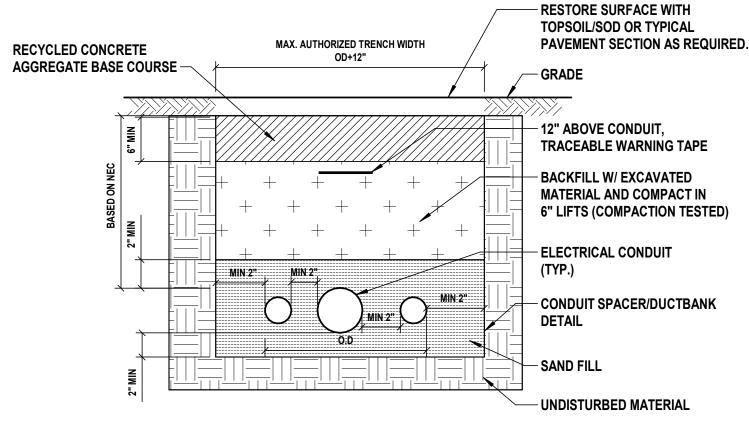


New Pavement Section

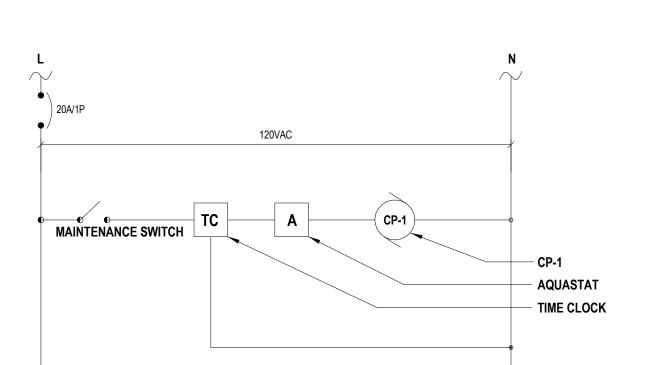
SCALE: N.T.S.



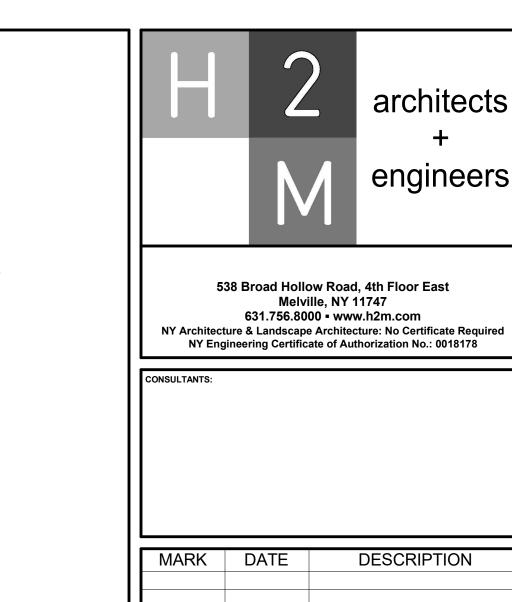
EMERGENCY DRIVER 7 Typical Detail of Light Fixture With Integral Emergency Battery



1. MINIMIZE ALL TRENCH WIDTHS IN ORDER TO AVOID EXCESSIVE DISTURBANCE OF ADJACENT AREAS. TRENCH WALLS SHALL BE VERTICAL. USE SHEET PILING OR A SHEETING BOX TO MAINTAIN THE SPECIFIED TRENCH. Typical Conduit Trench Detail
SCALE: N.T.S.

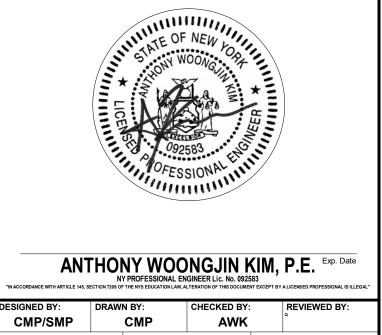


8 Pump 'CP-1' Control Schematic
SCALE: NTS



DESCRIPTION 1/23/25 ISSUED FOR BID 8/16/24 SED SUBMISSION

Melville, NY 11747



Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL DETAILS

E 500.00

(All Phases to be balanced to within 7% Actual Load Totals)

elboard: F		PM			Voltage	<u>.</u>	208Y/120	Phas	se:	3		Wir	e	4 A.I.C. R	ating: 42,000
				_					-	225 A		_ '''	_	A.i.o. iv	42,000
facturer:	SIEMEN	3			Mains:		MLO		s Rating:	225	Α				
Туре:	P2			Mounti		ıg:	SURFACE	Optio	ons:			Not	es:	LOCAT	TED IN ELECTRICAL ROOM
A Type Enclosure	1														
Load Description	Breaker Option	Trip	Poles	Circ No.	A	В	С	А	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
AC-1,2	HACR	15 A	2	1	645 VA			645 VA			2	2	15 A	HACR	AC-3,4
	HACK	13 A		3		645 VA			645 VA		4		13 A	HACK	AC-3,4
TEF-1		25 A	1	5			1248 VA			1666 VA	6				
ERV-1		25 A	1	7	1728 VA			1666 VA			8	3	20 A	HACR	EDH-1
AC-8	HACR	15 A	2	9		895 VA	005.1/4		1666 VA	045 \/4	10				
				11	354 VA		895 VA	645 VA		645 VA	12 14	2	15 A	HACR	AC-5,6
AC-7,9	HACR	15 A	2	13 15	354 VA	354 VA		645 VA	180 VA		16	1	20 A		GR-1,2 MOTORIZED DAMPERS
				17		334 VA	285 VA		100 VA	180 VA	18	1	20 A		ROOF CONV. REC.
BC-1,2,3	HACR	20 A	2	19	285 VA		200 VA	1768 VA		100 VA	20				
WH-1		20 A	1	21		500 VA			1768 VA		22	2	20 A		WH-2
CP-1		20 A	1	23			180 VA			432 VA	24				
SPARE		20 A	1	25	0 VA			432 VA			26	3	15 A	HACR	KEF-1
SPARE	-	20 A	1	27		0 VA			432 VA		28				
SPARE		20 A	1	29			0 VA			0 VA	30	1	20 A		SPARE
SPARE		20 A	1	31	0 VA			0 VA			32	1	20 A		SPARE
SPARE		20 A	1	33		0 VA			0 VA		34	1	20 A		SPARE
SPARE		20 A	1	35			0 VA			0 VA	36	1	20 A	-	SPARE
SPARE		20 A	1	37	0 VA			0 VA			38	1	20 A	-	SPARE
SPARE		20 A	1	39		0 VA			0 VA		40	1	20 A	-	SPARE
SPARE		20 A	1	41			0 VA			0 VA	42	1	20 A		SPARE
	Con	nected 1	Γotals:	A	8.2	kVA					<u>Brea</u>	ker O	<u>ption</u>		
				В	7.1	kVA	_				AS - P	owerlii	nk AS Bı	reaker	
				С	5.5	kVA					LO - H	andle l	Lock-off	Device	
			Total:	-	20.8	kVA	-				ST - S	hunt Ti	rip Type		
Amps 58 A							AUX - Auxillary Contacts								
				-			-						-	Attchment	
														Circuit Interru	upter
														& Refrigeration	
	(All Phases	to be ba	lanced	to wit	hin 7% Actu	ial Load Tot	tals)				SF - S			•	
												ime Cl	ock Con	trol	

Name										_					
Panelboard:	PPK				Voltage		208Y/120	Phas	se:	3		Wir	е	4 A.I.C. R	ating: 42,000
Manufacturer:	SIEMEN	IS			Mains:		200A MCE	Mair	s Rating:	200	Α				
Panel Type:	P2			Mounting:			RECESSED Options:		Notes: _			es:	LOCAT	ED IN CAFETERIA SERVERY	
NEMA Type Enclosure	1														
Load Description	Breaker Option	Trip	Poles	Circ No.	A	В	С	А	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
MIDDLE KITCEHN COUNTER REC.	GFCI	20 A	1	1	360 VA			900 VA			2	1	20 A	GFCI	KITCHEN/SERVERY REC.
ICE CREAM REFRIGERATOR	GFCI	20 A	1	3		468 VA			1800 VA		4	1	20 A	GFCI	HOOD FAN CONTROL SYST
TWO DOOR FREEZER	GFCI	20 A	1	5			1344 VA			1800 VA	6	1	20 A	GFCI	FIRE SUPPRESSION SYSTE
HOLDING CABINET	GFCI	20 A	1	7	1320 VA			900 VA			8	1	20 A	GFCI	REFRIGERATOR (2 SECTIO
RANGE	ST	20 A	1	9		480 VA			900 VA		10	1	20 A	GFCI	REFRIGERATOR (2 SECTIO
CONVECTION OVEN	ST	20 A	1	11			924 VA			780 VA	12	1	20 A	GFCI	FREEZER
KITCHEN EXHAUST HOOD	GFCI	20 A	1	13	1800 VA			2640 VA			14				
EMERGENCY PUSH BUTTON		20 A	1	15		1000 VA			2640 VA		16	3	30 A	ST/GFCI	STEAMER
STEAMER UTILITIES	GFCI	20 A	1	17			1800 VA			2640 VA	18				
SPARE		20 A	1	19	0 VA			4075 VA			20				
SPARE		20 A	1	21		0 VA			2623 VA		22	3	60 A		PANEL "KSP1"
SPARE		20 A	1	23			0 VA			1620 VA	24				
SPARE		20 A	1	25	0 VA			4075 VA			26				
SPARE		20 A	1	27		0 VA			2520 VA		28	3	60 A		PANEL "KSP2"
SPARE		20 A	1	29			0 VA			1723 VA	30				
SPARE		20 A	1	31	0 VA			0 VA			32	1	20 A	-	SPARE
SPARE		20 A	1	33		0 VA			0 VA		34	1	20 A	-	SPARE
SPARE		20 A	1	35			0 VA			0 VA	36	1	20 A		SPARE
SPARE		20 A	1	37	0 VA			0 VA			38	1	20 A		SPARE
SPARE		20 A	1	39		0 VA			0 VA		40	1	20 A		SPARE
SPARE		20 A	1	41			0 VA			0 VA	42	1	20 A		SPARE
	Con	nected 1	Γ∩tals∙	Α	16.1	kVΔ					Brea	ker C	ption		
	2011				12.4		-						nk AS Bi	roakor	
				В.			-								
				C	12.6		-						Lock-off		
			Total:	-		kVA	_						rip Type		
			Amps	-	114	4 A	_						ry Cont		
														Attchment	
														Circuit Interre	•
			_											& Refrigerati	on
	(All Phases	to be ba	lanced	to wit	hin 7% Actu	ual Load To	tals)				SF - S	ubfeed			

				INTERIO	OR LIGH	TING FIXTU	RE SCHI	EDULE		
DESIGNATION	IMAGE	MANUFACTURER	MODEL NUMBER	WATTAGE	VOLTAGE	COLOR TEMPERATURE	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT
EX	⊗	ILP	EXE1UR1RXB	4 W	120 V	-	-	SURFACE	(NOTE 1)	CEILING
EX2		ILP	EXE1UR2RXB	4 W	120 V	-	-	SURFACE	(NOTE 1)	CEILING
F1		ILP	VOLA22-39L-U-40	29 W	120 V	4000 K	3924 lm	RECESSED		CEILING
F1E		ILP	VOLA22-39L-U-40-EM10	29 W	120 V	4000 K	3924 lm	RECESSED	(NOTE 1)	CEILING
F1V		ILP	VOLA22-39L-U-40-SR-ESMC	29 W	120 V	4000 K	3924 lm	RECESSED	SENSOR CONNECT 2X2 - EQUIPPED WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR. VACANCY SENSOR MODE = OCCUPANCY SHALL OPERATE AS MANUAL ON/AUTO OFF	CEILING
F1Z		ILP	VOLA22-39L-U-40-SR-ESMC	29 W	120 V	4000 K	3924 lm	RECESSED	SENSOR CONNECT 2X2 - EQUIPPED WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR. OCCUPANCY SENSOR MODE = OCCUPANCY SHALL OPERATE AS AUTO ON/AUTO OFF	CEILING
F1ZE		ILP	VOLA22-39L-U-40-SR-EM10-ESMC	29 W	120 V	4000 K	3924 lm	RECESSED	SENSOR CONNECT 2X2 - EQUIPPED WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR. OCCUPANCY SENSOR MODE = OCCUPANCY SHALL OPERATE AS AUTO ON/AUTO OFF (NOTE 1)	CEILING
F2		ILP	VOLA24-43L-U-40	29 W	120 V	4000 K	4323 lm	RECESSED	SENSOR CONNECT 2X4 - EQUIPPED WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR. VACANCY SENSOR MODE = OCCUPANCY SHALL OPERATE AS MANUAL ON/AUTO OFF	CEILING
F3E		SIGNIFY	FSS-4-30L-840-UNV-DIM-EMLED	22 W	120 V	4000 K	2998 lm	SURFACE	(NOTE 1)	CEILING
F4E		ILP	WPCS-4L-U-30-T4-XXX-EM10-PCU	31 W	120 V	3000 K	4261 lm	SURFACE	INTEGRAL PHOTOCELL (NOTE 1)	8-0" A.F.G. UON
F5		ILP	VPAN22-33L-U-40-SR-ESMC	30 W	120 V	4000 K	4156 lm	RECESSED	SENSOR CONNECT 2X2 - EQUIPPED WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR. OCCUPANCY SENSOR MODE = OCCUPANCY SHALL OPERATE AS AUTO ON/AUTO OFF	CEILING
F5E		ILP	VPAN22-33L-U-40-SR-EM10-ESMC	30 W	120 V	4000 K	4156 lm	RECESSED	SENSOR CONNECT 2X2 - EQUIPPED WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR. OCCUPANCY SENSOR MODE = OCCUPANCY SHALL OPERATE AS AUTO ON/AUTO OFF (NOTE 1)	CEILING
F6		SIGNIFY	2901L94040QN05DE1NXA148	42 W	120 V	4000 K	4060 lm	PENDANT		10'-0" A.F.F.
F6E		SIGNIFY	2901L94040QN05DE1BXA148	42 W	120 V	4000 K	4060 lm	PENDANT	(NOTE 1)	10'-0" A.F.F.
F7	0	DELRAY	CYLINDRO-2-B6714-LO-XX-W30-SR-D	68 W	120 V	4000 K	5040 lm	PENDANT		10'-0" A.F.F.
F7E		DELRAY	CYLINDRO-2-B6714-LO-XX-W30-SR-D -EM	68 W	120 V	4000 K	5040 lm	PENDANT	(NOTE 1)	10'-0" A.F.F.
F8		SIGNIFY	3901L94020QS20FTDE1X	92 W	120 V	4000 K	11125 lm	RECESSED		CEILING

PA - Handle Padlock Attchment GFCI - Ground Fault Circuit Interrupter HACR - Heating, A/C & Refrigeration

SF - Subfeed

TC - Time Clock Control

Manuracturer:	SIEWENS Wains:				MILO Mains Rating:			125 A							
Panel Type:	P2				Mountin	g:	SURFACE	Option Option	ons:			Not	es:	LOCA	TED IN ELECTRICAL ROOM
NEMA Type Enclosure	1														
Load Description	Breaker Option	Trip	Poles	Circ No.	Α	В	С	Α	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
CORRIDOR RECEPTACLES		20 A	1	1	1620 VA			1440 VA			2	1	20 A		CLASSROOM 21 REC.
CLASSROOM 22 REC.		20 A	1	3		1440 VA			1440 VA		4	1	20 A		CLASSROOM 23 REC.
CLASSROOM 24 REC.		20 A	1	5			1440 VA			900 VA	6	1	20 A		RESOURCE ROOM REC.
CAFETERIA RECEPTACLES		20 A	1	7	1440 VA		-	1440 VA			8	1	20 A		CLASSROOM 17 REC.
CLASSROOM 18 REC.		20 A	1	9		1440 VA			1440 VA		10	1	20 A		CLASSROOM 19 REC.
CLASSROOM 20 REC.		20 A	1	11			1440 VA			180 VA	12	1	20 A		TOILET 16 REC.
SECURITY 15 REC.		20 A	1	13	720 VA			1044 VA			14	1	20 A		CLASSROOM 17,18,19,20 LIGHTING
CLASSROOM 21,22,23,24,25 LTG.		20 A	1	15		1189 VA			1025 VA		16	1	20 A		CORRIDOR & BATHROOM LTG.
KITCHEN/CAFE LIGHTING		20 A	1	17			1983 VA			180 VA	18	1	20 A		CUSTODIAL REC.
TOILET 16 HAND DRYER	GFCI	20 A	1	19	1000 VA			720 VA			20	1	20 A		EXTERIOR RECEPTACLES
GIRLS TOILET HAND DRYER	GFCI	20 A	1	21		1000 VA			1000 VA		22	1	20 A	GFCI	GIRLS TOILET HAND DRYER
EXISTING EXT. BATHROOM		20 A	1	23			1000 VA			1000 VA	24	1	20 A		EXISTING SITE LIGHTING
EXISTING SITE LIGHTING		20 A	1	25	1000 VA			1000 VA			26	1	20 A		EXISTING EJECTOR PUMP
CAFE DRINKING FOUNTAIN	GFCI	20 A	1	27		500 VA			500 VA		28	1	20 A	GFCI	CORRIDOR DRINKING FOUNTAIN
TOILET 16 SINK	GFCI	20 A	1	29			180 VA			403 VA	30	1	20 A		BUILDING EXTERIOR LIGHTING
GIRLS TOILET 26A TOILET	GFCI	20 A	1	31	360 VA			360 VA			32	1	20 A	GFCI	BOYS TOILET 26B SINK
SPARE	-	20 A	1	33		0 VA			0 VA		34	1	20 A	-	SPARE
SPARE	-	20 A	1	35			0 VA			0 VA	36	1	20 A	-	SPARE
SPARE		20 A	1	37	0 VA			0 VA			38	1	20 A		SPARE
SPARE		20 A	1	39		0 VA			0 VA		40	1	20 A		SPARE
SPARE	-	20 A	1	41			0 VA			0 VA	42	1	20 A		SPARE
	Cor	nnected T	Total: Amps		11.0 8.7 31.8 88	kVA kVA kVA A	tals)				AS - P LO - H ST - S AUX - PA - H GFCI- HACR SF - S	owerlii landle l hunt Ti Auxilla landle l Grour - Heati ubfeed	nd Fault (ng, A/C	Device acts Attchment Circuit Interi & Refrigerat	-

Wire 4 A.I.C. Rating:

Name														
Panelboard:	KSP1			Voltage	:	208Y/120	Phas	se:	3		Wir	е	A.I.C. Ra	ting: EXISTING
Manufacturer:	SQUARE	E D		Mains:		MLO	Main	Mains Rating:		200 A				
Panel Type:	EXISTIN	IG		Mountii	ng:	RECESSEI	O Optio	ons:			Not	es: I	LOCATED IN NE	EW ADDITION KITCHEN SERVER
NEMA Type Enclosure	NEMA1	1												
Load Description	Breaker Option	Trip	Poles Circ	A	В	С	Α	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
			. 1	1123 VA			852 VA			2	1	20 A	GFCI	UNDERCOUNTER REF.
HOT WELLS	GFCI	20 A	2 3		1123 VA			900 VA		4	1	20 A	GFCI	MILK COOLER
COLD WELL	GFCI	20 A	1 5			1020 VA			600 VA	6	1	20 A	GFCI	CASHIER COUNTER
HOT WELL HEAT STRIP	GFCI	20 A	1 7	1500 VA			600 VA			8	1	20 A	GFCI	HOT WELL HEAT STRIP
FOOD PROTECTOR	GFCI	20 A	1 9		600 VA					10	1	-		SPACE
SPACE			1 11							12	1			SPACE
SPACE			1 13							14	1			SPACE
SPACE			1 15							16	1			SPACE
SPACE			1 17							18	1			SPACE
	Con		otals: A B C Total: Amps:	2.6 1.6 8.3	kVA kVA kVA kVA	- - - -				AS - F LO - H ST - S AUX - PA - H	Powerlin Handle I Shunt Ti Auxilla Handle I	rip Type ary Cont Padlock	ereaker f Device	oter
	(All Phases	to be bal	anced to w	ithin 7% Act	ual Load To	tals)				SF - S	ubfeed	_	& Refrigeration	1

Panelboard:	KSP2				Voltage	:	208Y/120	Phas	se:	3		Wir	e	A.I.C. Rating	: 22,000
Manufacturer:	SIEMEN	s			Mains:		MLO	Main	s Rating:	100	Α				
Panel Type:	P2				Mountir	ng:	RECESSE	D Optio	ons:			Not	es:		
NEMA Type Enclosure	NEMA1	l													
Load Description	Breaker Option	Trip	Poles	Circ No.	Α	В	С	А	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
CASHIER COUNTER	GFCI	20 A	1	1	600 VA			852 VA			2	1	20 A	GFCI	UNDERCOUNTER REF
FOOD PROTECTOR	GFCI	20 A	1	3		600 VA			1020 VA		4	1	20 A	GFCI	COLD WELL
HOT WELL HEAT STRIP	GFCI	20 A	1	5			600 VA			1123 VA	6			0501	LIOT WELLO
HOT WELL HEAT STRIP	GFCI	20 A	1	7	1500 VA			1123 VA			8	2	20 A	GFCI	HOT WELLS
MILK COOLER	GFCI	20 A	1	9		900 VA			0 VA		10	1	20 A		SPARE
SPARE		20 A	1	11			0 VA			0 VA	12	1	20 A		SPARE
SPARE	-	20 A	1	13	0 VA			0 VA			14	1	20 A	-	SPARE
SPARE	-	20 A	1	15		0 VA			0 VA		16	1	20 A		SPARE
SPARE		20 A	1	17			0 VA			0 VA	18	1	20 A		SPARE
	Con	nected [*]	Totals:	A B C	2.5	kVA kVA kVA	-				AS - F	Powerli	ption nk AS Bı Lock-off		
			Total:		8.3	kVA	_				ST - S	hunt T	rip Type		
			Amps:		23	ВА	_				AUX -	Auxilla	ary Cont	acts	
			•				-						-	Attchment	
														Circuit Interrupter	
														& Refrigeration	

NOTES:

1. INTEGRAL EMERGENCY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY

TYPE	MANUFACTURER	MODEL NUMBER	VOLTAGE	MOUNTING	MOUNTING HEIGHT	REMARKS
RC	SENSORWORX	SWX-910	UNV	SURFACE	ABOVE CEILING	ROOM CONTROLLER
S _{vs}	SENSORWORX	SWX-123-XX	CONTROL VOLTAGE	SURFACE	46" AFF, UON	LINE VOLTAGE VACANCY SENSOR LIGHT SWITCH
(OS)	SENSORWORX	SWX-223-1	CONTROL VOLTAGE	SURFACE	CEILING	OS DENOTES OCCUPANCY SENSO
S _{LV}	SENSORWORX	SWX-803-XX	CONTROL VOLTAGE	SURFACE	46" AFF, UON	LOW VOLTAGE DIMMING LIGHT SWITCH
Sos	SENSORWORX	SWX-121-XX	UNV	SURFACE	46" AFF, UON	LINE VOLTAGE OCCUPANCY SENSOR LIGHT SWITCH
S _D	RCA COMMERCIAL ELECTRONICS	LGE-SWITCH-2B-AC	UNV	SURFACE (WALL)	48" A.F.F	LINE VOLTAGE DIMMING SWITCH

NOTES

- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES AS REQUIRED TO PROVIDE FULL FUNCTIONING SENSORWORX LIGHTING
 CONTROL SYSTEM TO FUNCTION AS SHOWN IN THE CONSTRUCTION DOCUMENTS. DESIGN OF THE LIGHTING CONTROL SYSTEM WAS DEVELOPED
 AROUND THE SENSORWORX CONTROL SYSTEM. ALL SUBSTITUTE CONTROLS WILL REQUIRE SUBMISSION OF NEW CONTROL LAYOUT, STAMPED BY A
 PROFESSIONAL ENGINEER. SUBSTITUTE CONTROLS SHALL FUNCTION AS DESIGNED ON THE CONTRACT DOCUMENTS AND CONTRACTOR SHALL
 GUARANTEE
- FUNCTIONALITY.
 2. CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR SPECIFIC OUTPUT CONTROLS, AND DIMMING REQUIRED FOR ROOM CONTROLLER.
- 3. ALL SWITCHES AND SWITCH BANKS TYPES SHALL BE COORDINATED WITH THE ENGINEER/DISTRICT IN FIELD.
- 4. CONTRACTOR SHALL COORDINATE WITH DISTRICT TO PROGRAM ALL SCHEDULES OF LIGHTING CONTROL, FUNCTION OF SWITCHES AND NETWORK CONFIGURATION. CONTROL SHALL PROVIDE TRAINING FOR DISTRICT STAFF ON EACH SHIFT. COORDINATE WITH PHILIPS LIGHTING FOR TRAINING AND PROGRAMMING ASSISTANCE (FIELD SERVICES).

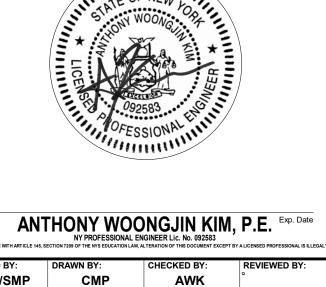
DISCONNECT SWITCH SCHEDULE							
DISCONNECT SWITCH IDENTIFICATION	TYPE	ENCLOSURE	VOLTS	POLES	FRAME SIZE AMPS	FUSE RATING	
DS1	NONFUSED	NEMA 3R	240	3	60 A	-	

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com
NY Architecture & Landscape Architecture: No Certificate Required
NY Engineering Certificate of Authorization No.: 0018178

ONSULTANTS:

MARK DATE DESCRIPTION

1/23/25 ISSUED FOR BID
8/16/24 SED SUBMISSION



Date: January 2025 As Show

Harrison Central

School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

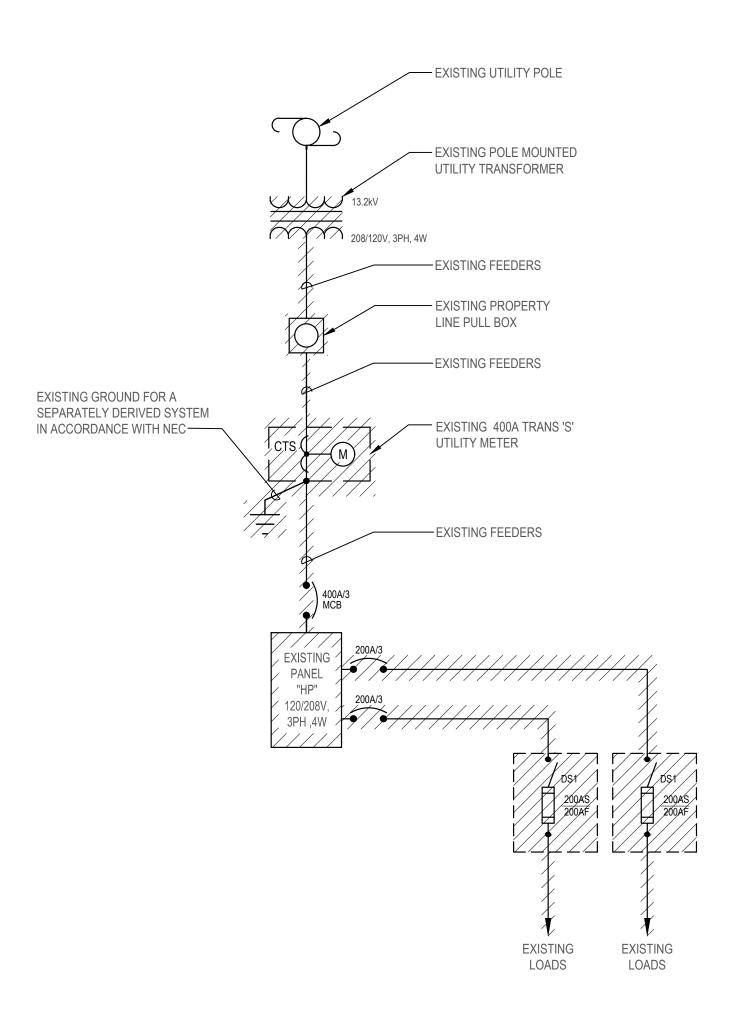
CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL SCHEDULES

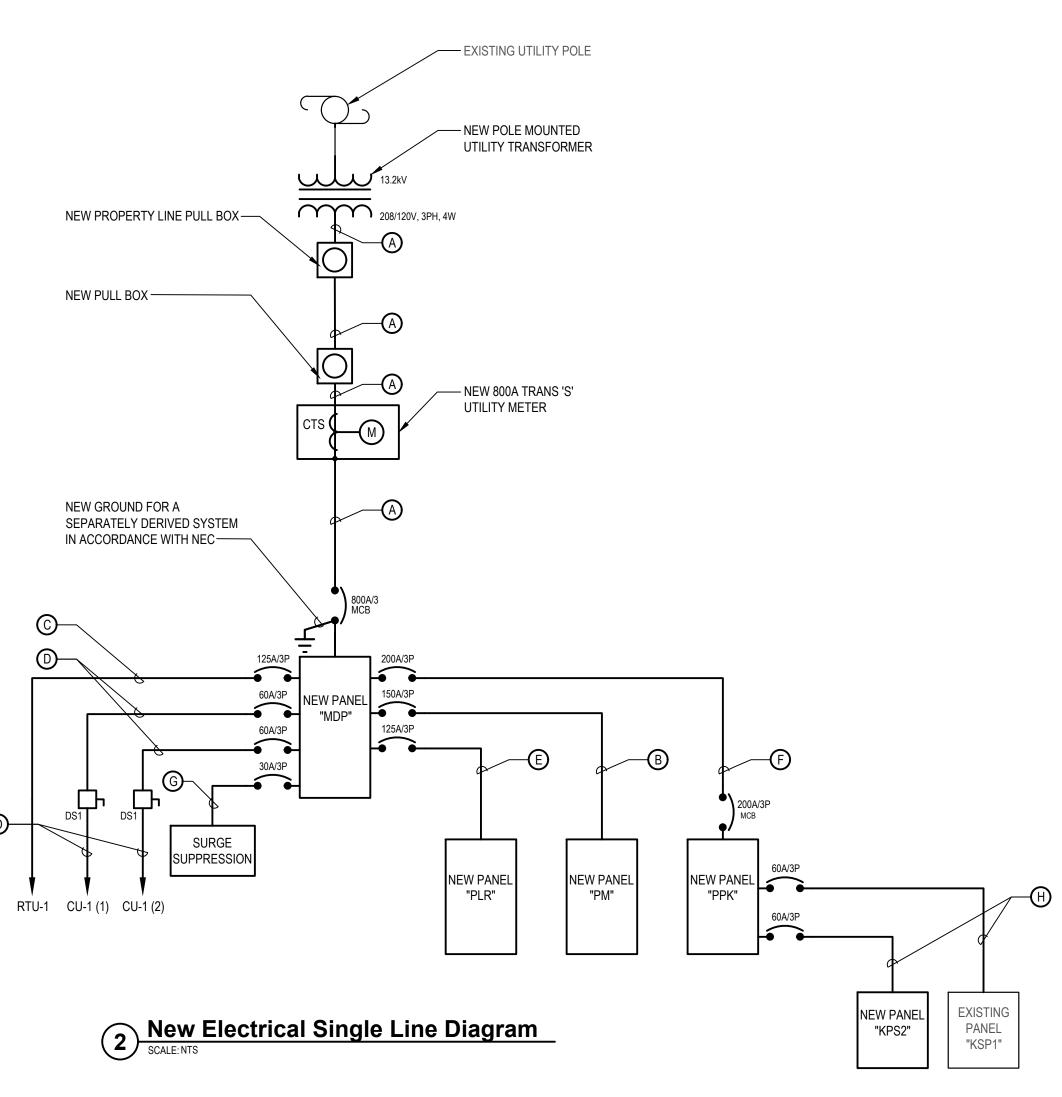
E 600.00



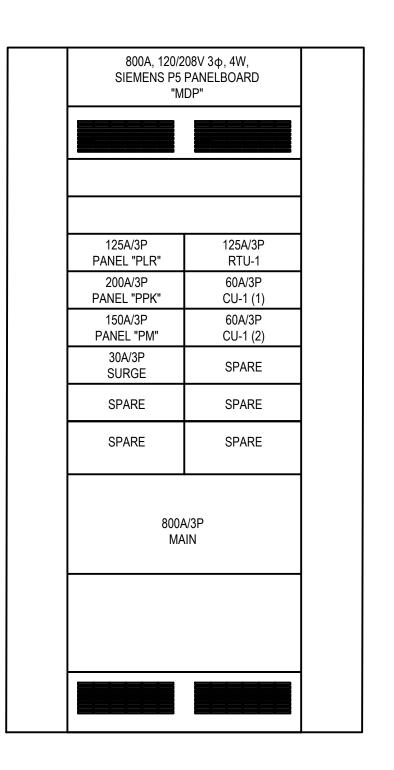
1 Existing Electrical Single Line Diagram (Portable Classrooms)

SCALE: NTS

LEGEN	NDS
1///,	REMOVE & DISPOSE OF

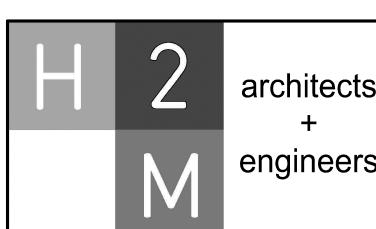


FEEDI	ER SCHEDULE
FEEDER	CONDUCTOR AND CONDUITS FEEDER SCHEDULE
А	2 SETS OF 4 - 500 MCM IN (2) 4" E.C.
В	4 #1/0 AWG + #6 AWG GND IN 2" E.C.
С	3 #1 AWG + #6 AWG GND IN 2" E.C.
D	3 #6 AWG + #10 AWG GND IN 1" E.C.
E	4 #1 AWG + #6 AWG GND IN 2" E.C.
F	4 #3/0 AWG + #6 AWG GND IN 2-1/2" E.C.
G	MICRO Z, LOW INDUCTANCE CABLE IN 1" E.C.
Н	4 #6 AWG + #10 AWG GND IN 1" E.C.



Panel "MDP" Elevation

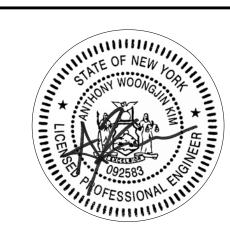
SCALE: N.T.S.



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NY Engineering Certificate of Authorization No. 0018178

CONSULTANTS:

MARK	DATE	DESCRIPTION
	1/23/25	ISSUED FOR BID
	8/16/24	SED SUBMISSION
	8/16/24	SED SORINISSION



ANTHONY WOONGJIN KIM, P.E. Exp. Date

NY PROFESSIONAL ENGINEER LIC. NO. 092583

"IN ACCORDANCE WITH ART ICLE 145, SECTION 7289 OF THE MYS EDUCATION LAW, ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LLEGAL"

DESIGNED BY:

CMP/SMP

CMP

CMP

AWK

PROJECT NO:

HCSD2401H

DATE:

JANUARY 2025

AS SHOWN

Harrison Central School District

Building Addition at the Purchase Elementary School



2995 Purchase Street Purchase, New York 10577

SED No.: 66-05-01-06-0-001-027

CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL SINGLE LINE DIAGRAM

E610.00

FIRE ALARM NOTES:

- ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE
 OR AS DICTATED BY CONTRACT SPECIFICATIONS, AND THE LATEST EDITION OF N.F.P.A 72 OR AS
- REQUIRED BY LOCAL ORDINANCE.
 ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.
- GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE NO. 12 A.W.G.
 ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.
- FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS REQUIREMENTS.
 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. CONTRACTOR RESPONSIBLE TO PATCH & PAINT ALL OPENINGS AS A RESULT OF REMOVAL OF EXISTING
- EQUIPMEN I.
 8. INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS. COORDINATE
- EXACT LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL CONTRACTOR

 9. 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.
- ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED. ALL ALARM INDICATING APPLIANCES SHALL SOUND A
 'TEMPORAL 3' CODE PATTERN, UNLESS SYSTEM IS VOICE ACTIVATED.
 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.

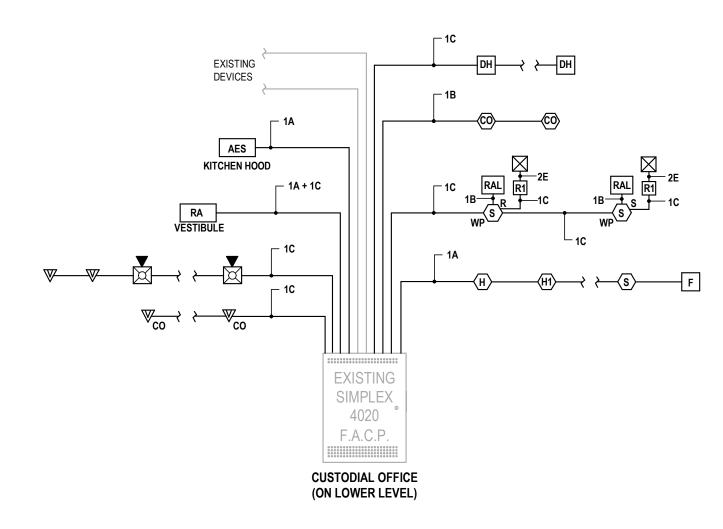
 12. INSTALL ALL DEVICES IN ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED AS
 - FOLLOWS:
 A. MANUAL PULL STATIONS 48" O.C.
 - B. ALARM INDICATING APPLIANCE 80" A.F.F.C. VERIFY WITH CONTRACT SPECIFICATIONS FOR ANY DEVIATIONS.
- 13. STROBES SHALL BE WIRED TO REMAIN ACTIVE AFTER SILENCE FUNCTION IS PERFORMED.
 14. PROVIDE AND INSTALL ALL NECESSARY CONTROL MODULES, SYNCHRONIZATION MODULES AND MONITOR
- MODULES AS REQUIRED BY MANUFACTURER.

 15. FIRE ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES AND QUANTITIES.
- 16. 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.

 17. IN ADDITION TO DEVICES SHOWN ON THE DRAWINGS CONTRACTOR TO PROVIDE THREE SMOKE
- DETECTORS, THREE HORN STROBES, AND THREE STROBES. EACH DEVICE SHALL BE INCLUDED WITH 100' OF WIRING AND/OR CONDUIT. CONTRACTOR TO PROVIDE A SEPARATE COST FOR THIS WORK IN THE PROPOSAL SHEETS AS INDICATED.

18. PROTECTIVE SHIELDS SHALL BE PROVIDED FOR ALL PULL STATIONS. SHIELDS SHALL FIT OVER MANUAL

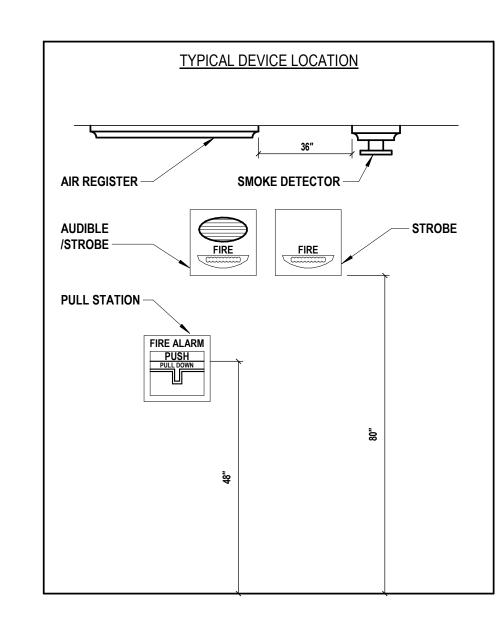
- PULL STATIONS AND SHALL INCLUDE A BATTERY OPERATED PIERCING HORN WHEN THE SHIELD IS REMOVED.
- 19. PLENUM WIRING TO BE USED IN ALL AREAS ABOVE DROP CEILINGS. CONDUIT MUST BE USED IN ALL MECHANICAL AND ELECTRICAL ROOMS. CONDUIT MUST ALSO BE USED IN ALL AREAS WITH OPEN
- 20. ALL EQUIPMENT TO BE RECESSED MOUNTED AND ALL WIRING AND CONDUIT TO BE RUN CONCEALED



WIF	WIRE LEGEND							
	WIRE DESCRIPTION	TYPE	NOTES					
Α	1 PAIR TWISTED SHIELDED #18 AWG	FPLP	-					
В	1 PAIR #18 AWG. NON-SHIELDED	FPLP	-					
С	1 PAIR #14 AWG. NON SHIELDED	FPLP	-					
D	#12 AWG. NON SHIELDED	THHN	*					
E	#14 AWG. NON SHIELDED	THHN	-					
F	1 PAIR TWISTED SHIELDED #16 AWG.	FPLP	-					

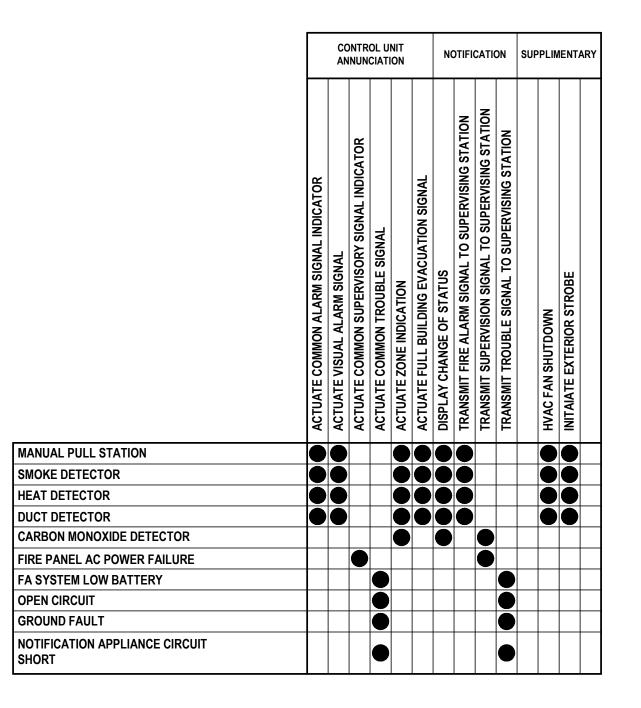
*PROVIDE ALL 120 VOLT CIRCUITS IN CONDUIT

Fire Alarm Riser Diagram (Note 15)
SCALE: 12" = 1'-0"



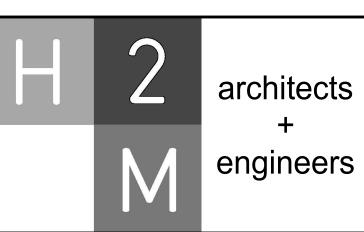
Typical Fire Alarm Device Location

SCALE: 12" = 1'-0"



Fire Alarm Sequence of Operations

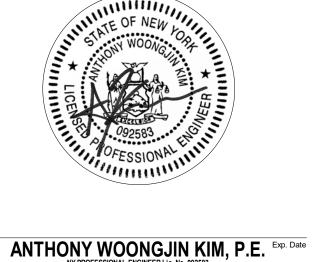
SCALE: 12" = 1'-0"



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	1/23/25 8/16/24



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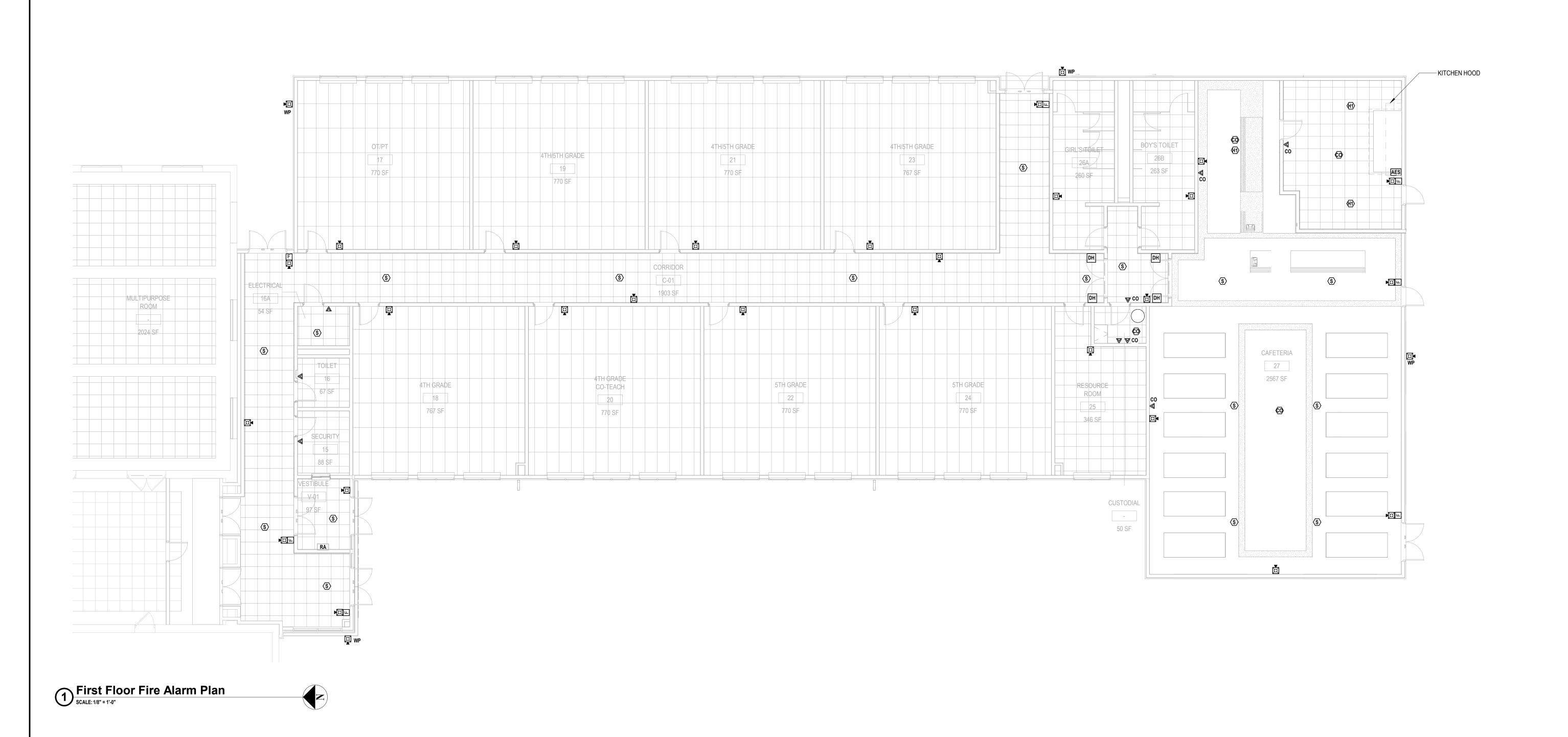
FINAL BID DOCUMENT

SHEET TITLE

FIRE ALARM LEGENDS AND RISER DIAGRAMS

FA 001.00

1/23/2025 1·52·00 PM



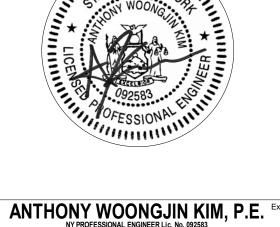
APPROXIMATE LOCATION
OF EXISTING SIMPLEX
4020 FIRE ALARM
CONTORL PANEL
(ON LOWER LEVEL)

H 2 architects + engineers

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CMP AWK

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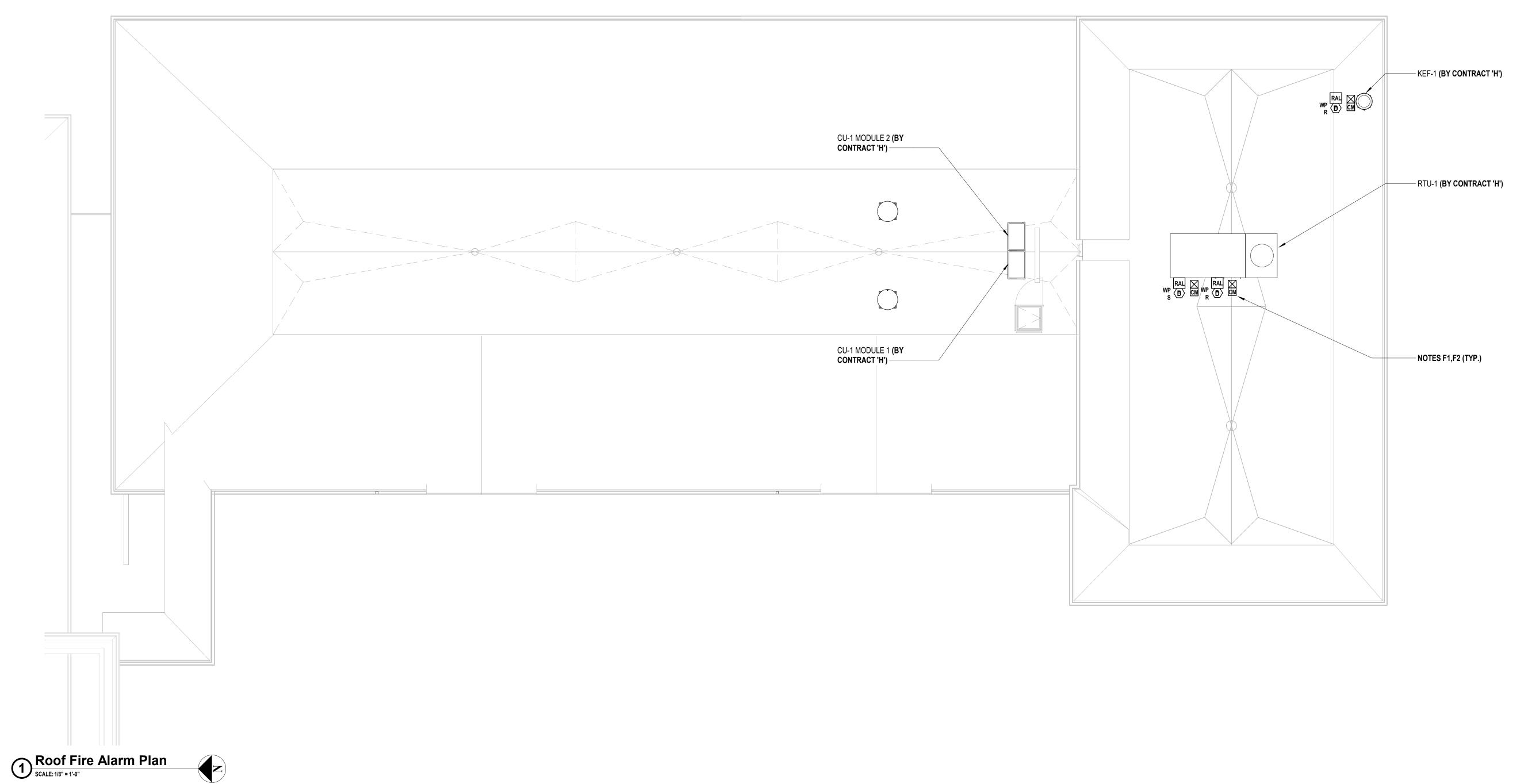
CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

FIRST FLOOR FIRE ALARM PLAN

FA 101.00

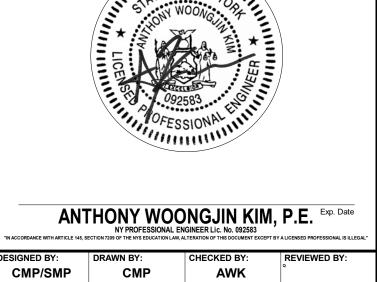


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CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

ROOF FIRE ALARM PLAN

FA 102.00

FIRE ALARM KEY NOTES:

- F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" IN CUSTODIAL ROOM ON LOWER LEVEL 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 AND PROGRAMMING. COORDINATE MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL FOR ALL FIRE ALARM DEVICES.
- F2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ADDRESSABLE SHUTDOWN CONTROL MODULES, ASSOCIATED RELAYS, WIRING AND CONDUIT AS REQUIRED TO INTEGRATE HVAC EQUIPMENT WITH FIRE ALARM SYSTEM. INSTALLATION LOCATIONS OF NEW SHUTDOWN CONTROL MODULES IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.