

DOOR / WINDOW SCHEDULE

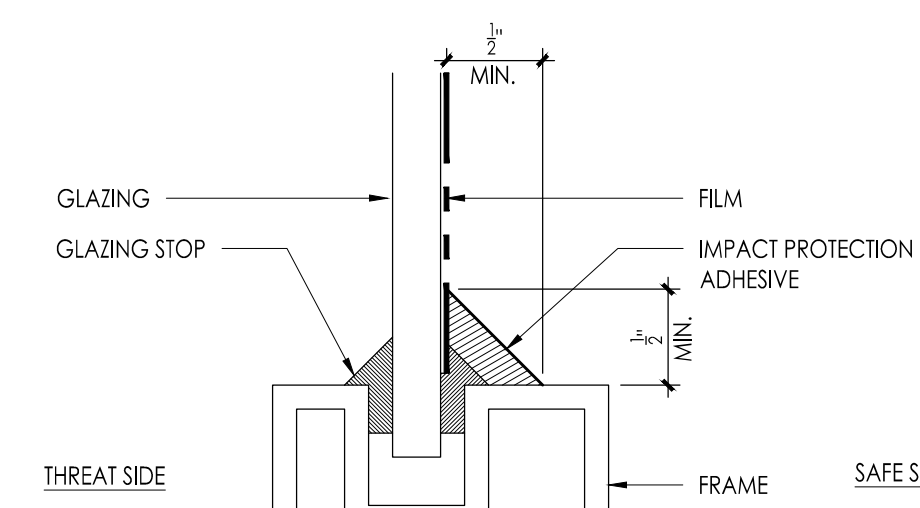
DR NO	DOOR LOCATION	DOOR / WINDOW				FRAME			SILL / SADDLE / THRESHOLD	HARD WARE	RATING	SIGN TYPE	REMARKS
		SIDE	TYPE	MAT.	GLASS	TYPE	MAT.	HEAD					
D101	EXTERIOR ENTRY DOOR @ STAIR # 2	-	-	-	ETR-SWF	A	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D102	EXTERIOR ENTRY DOOR @ STAIR # 2	-	-	-	ETR-SWF	B	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D103	EXTERIOR ENTRY DOOR @ VESTIBULE	-	-	-	ETR-SWF	C	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D104	EXTERIOR ENTRY DOOR @ VESTIBULE	-	-	-	ETR-SWF	C	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D105	EXTERIOR ENTRY DOOR @ STAIR # 1	-	-	-	ETR-SWF	B	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D106	EXTERIOR ENTRY DOOR @ STAIR # 1	-	-	-	ETR-SWF	A	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D107	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	E	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D108	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	E	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D109	EXTERIOR ENTRY DOOR @ ADMIN	-	-	-	ETR-SWF	F	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D110	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	G	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D111	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	I	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D112	EXTERIOR ENTRY DOOR @ E102	-	-	-	ETR-SWF	E	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D113	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	I	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D114	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	I	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D117	EXTERIOR ENTRY DOOR @ AUXILIARY GYMNASIUM	-	-	-	ETR-SWF	I	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D118	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	H	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D119	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	D	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D120	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	E	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	
D121	EXTERIOR ENTRY DOOR @ CORRIDOR	-	-	-	ETR-SWF	E	-	-	-	-	-	SEE DOOR SCHEDULE NOTE 1, 2	

DOOR SCHEDULE NOTES

- INSTALL NEW WINDOW SECURITY FILM ON EXISTING GLAZING WHERE INDICATED BY ABBREVIATION 'SWF' ON GLAZING PANELS IN EXISTING DOOR FRAMES. ALL SECURITY GLAZING TO BE INSTALLED ON SAFE SIDE OF FRAME SEE DETAIL F1. REFER TO EXISTING EXTERIOR FRAME TYPES AND FLOOR PLAN FOR EXTENT OF WORK.
- ALL AREAS OF GLAZING TO RECEIVE SECURITY FILM TO BE VERIFIED IN FIELD.

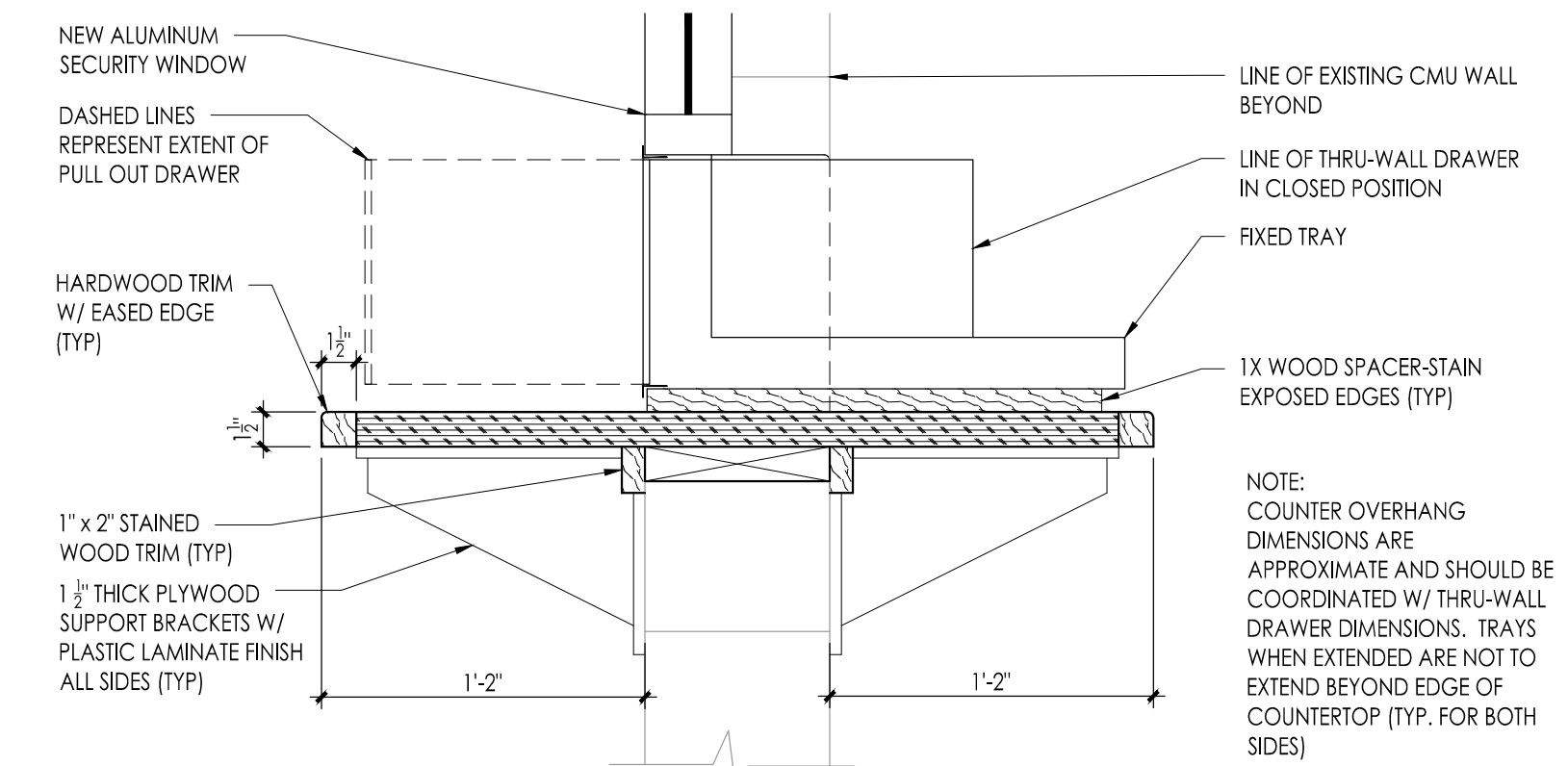
ABBREVIATIONS

- ETR - EXISTING TO REMAIN
SWF - SECURITY WINDOW FILM

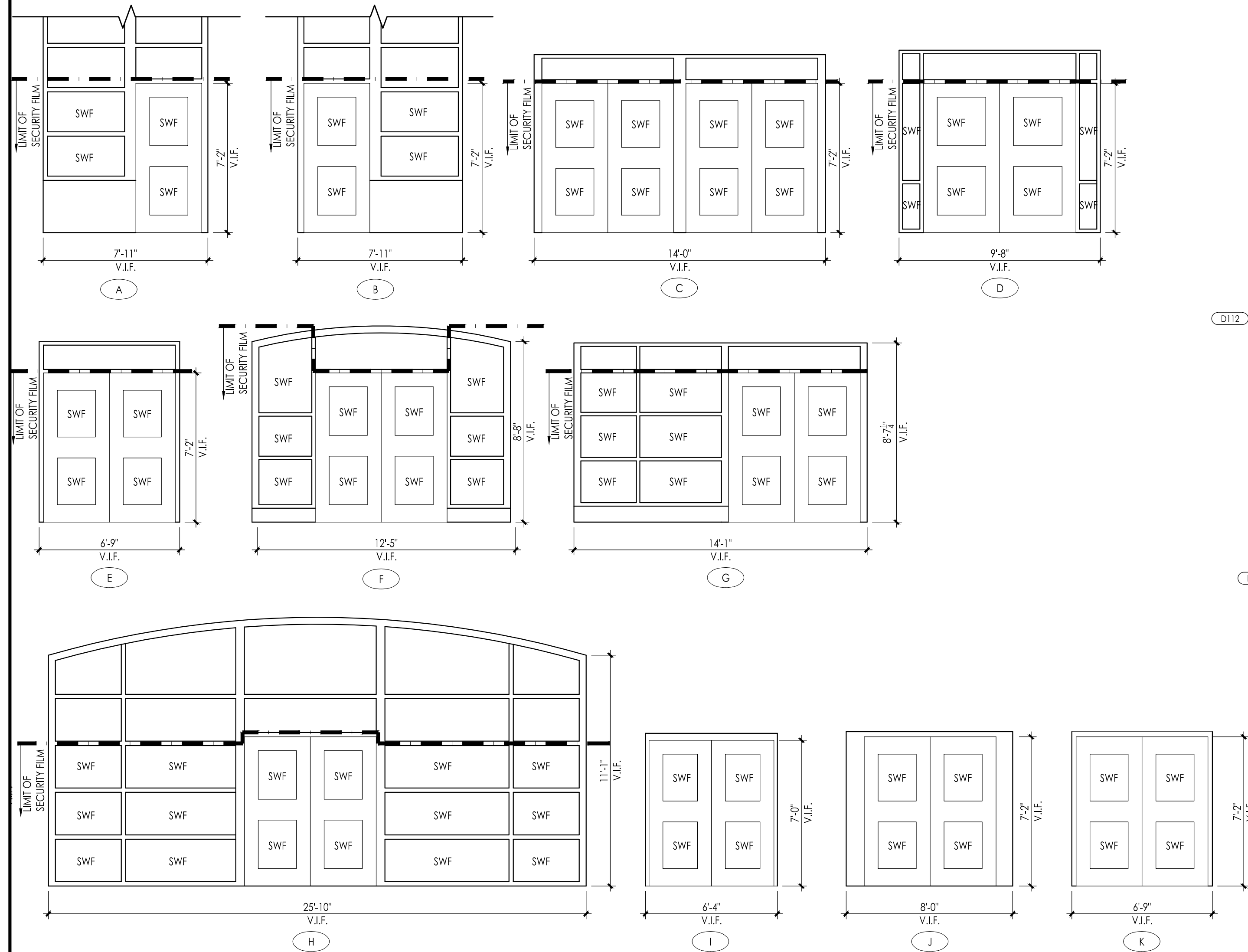


F1 SECURITY FILM DETAIL
Scale: 1/4" = 1'-0"

2 COUNTER DETAIL AT SECURITY WINDOW
Scale: 1/2" = 1'-0"

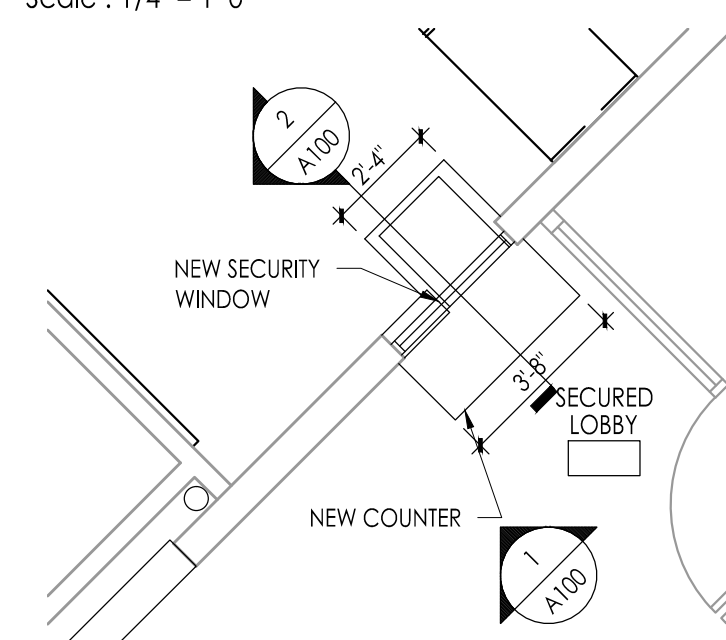


NOTE:
COUNTER OVERHANG DIMENSIONS ARE APPROXIMATE AND SHOULD BE COORDINATED W/ THRU-WALL DRAWER DIMENSIONS. TRAYS WHEN EXTENDED ARE NOT TO EXTEND BEYOND EDGE OF COUNTERTOP (TYP. FOR BOTH SIDES)



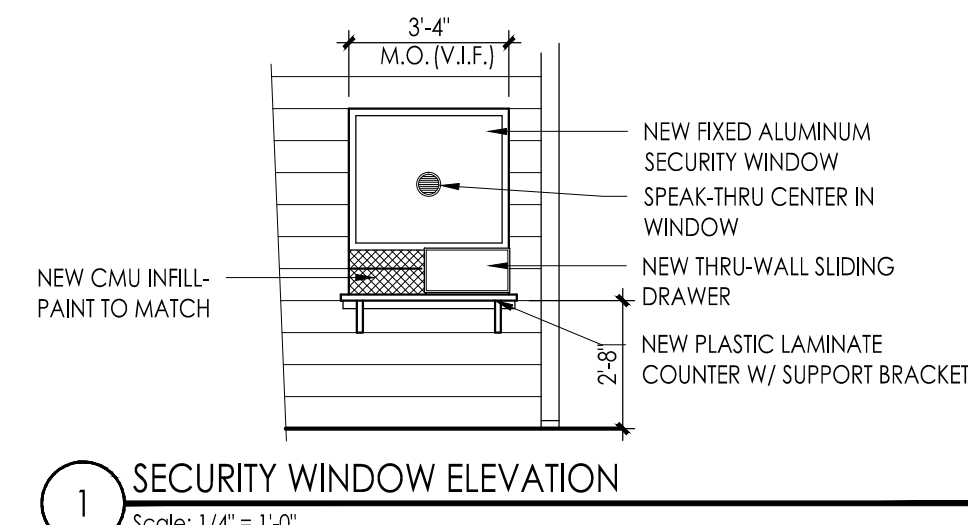
EXISTING EXTERIOR FRAME TYPES

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



NEW WORK PLAN - SECURED LOBBY

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



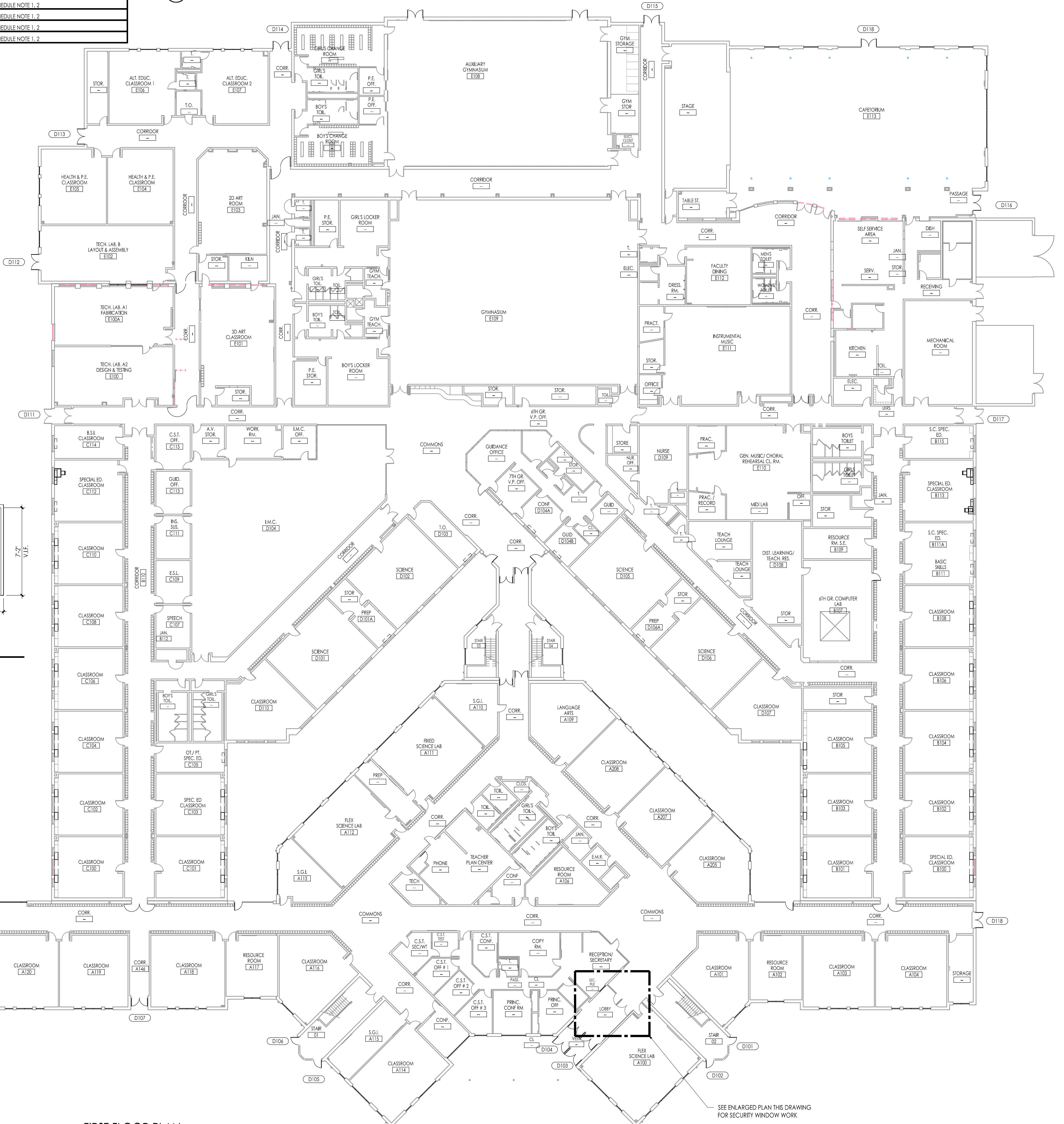
1 SECURITY WINDOW ELEVATION
Scale: 1/4" = 1'-0"

DEMOLITION PLAN - SECURED LOBBY

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

DEMOLITION / CONSTRUCTION NOTES (SECURE VESTIBULE):

- REMOVE EXISTING SLIDING SECURITY WINDOW IN ITS ENTIRETY AND HAND OVER TO OWNER. REMOVE EXISTING PLASTIC LAMINATE COUNTER AND SUPPORT BRACKETS IN THEIR ENTIRETY. INFILL A PORTION OF THE EXISTING MASONRY OPENING WITH CMU PER DETAILS THIS DRAWING. INSTALL NEW PLASTIC LAMINATE COUNTER TO DIMENSIONS SHOWN IN DETAILS THIS DRAWING. INSTALL NEW THRU-WALL SECURITY DRAWER PER DETAILS THIS DRAWING. AFTER INSTALLATION OF DRAWER, INSTALL NEW SECURITY WINDOW ABOVE NEW DRAWER. SECURE FRAME TO EXISTING MASONRY OPENING AND SECURE DRAWER TO FRAME. PATCH ALL DAMAGE CAUSED BY DEMOLITION TO MATCH EXISTING CONDITIONS.



FIRST FLOOR PLAN

Scale: 1:20

JOHN J. VEIZ, AIA, CSFA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTHIE JR., AIA, PP
NO. 1402797800

FVHD architects
planners
Frattak Veiz Hopkins Duthie P.C.
Corporate: 1515 Lower Ferry Road - Trenton, New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17435

Project Name
**ALTERATIONS AND
RENOVATIONS TO
WILLIAM DAVIES
MIDDLE SCHOOL**

Project Owner Name
**HAMILTON
TOWNSHIP BOARD
OF EDUCATION**

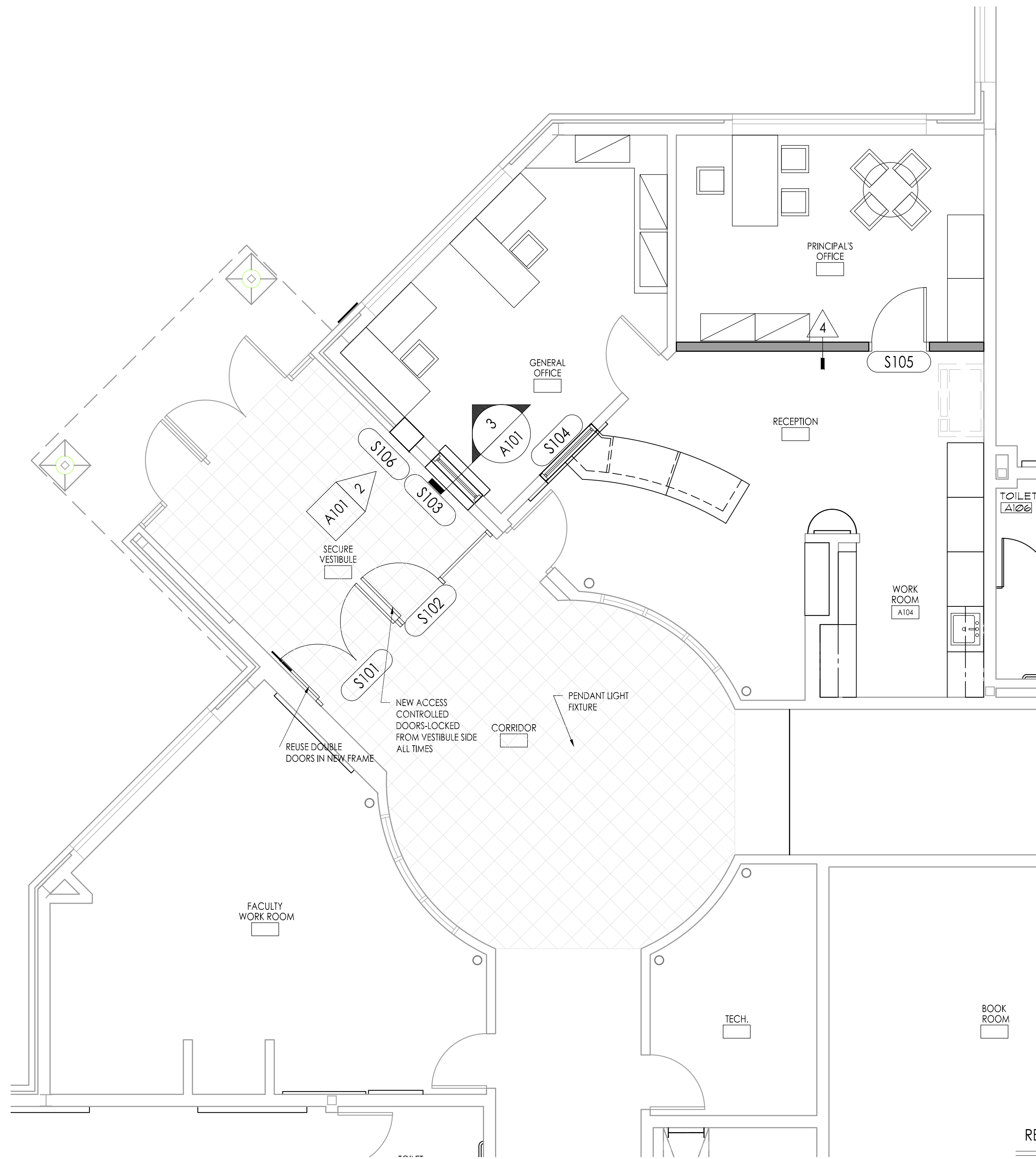
Project Location
**1876 DENNIS
FORMAN DR
MAYS LANDING,
NJ 08330**

Project Number
4937C
Project Date
02.15.2019
Checked By
JJV
Drawn By
KM
Scale
AS NOTED

Drawing Name
**SECURITY GLAZING
& DOOR SCHEDULE**

Revisions	No.	Date	Description

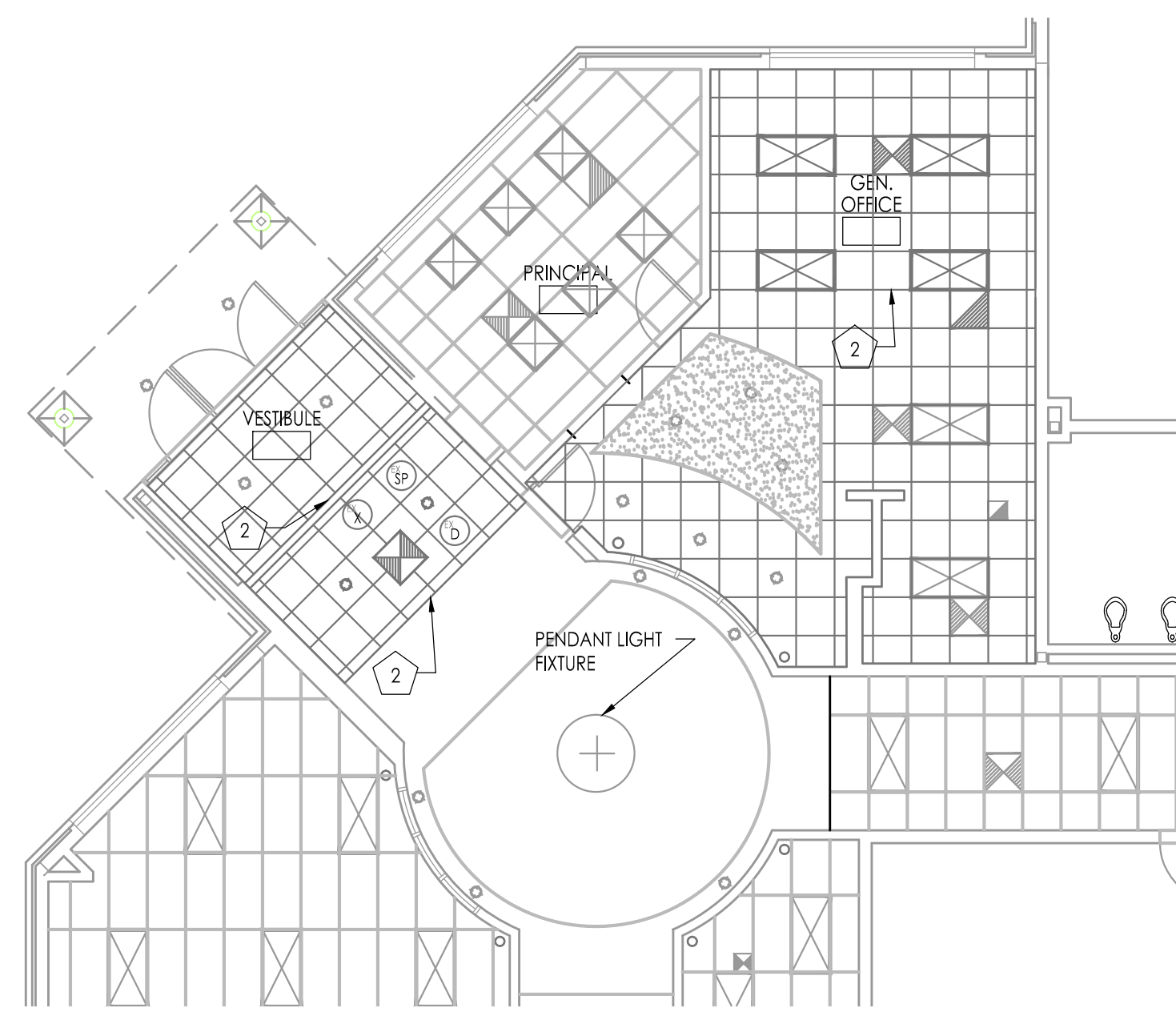
Drawing Number
A100



FLOOR PLAN
Scale: 1/4" = 1'-0"

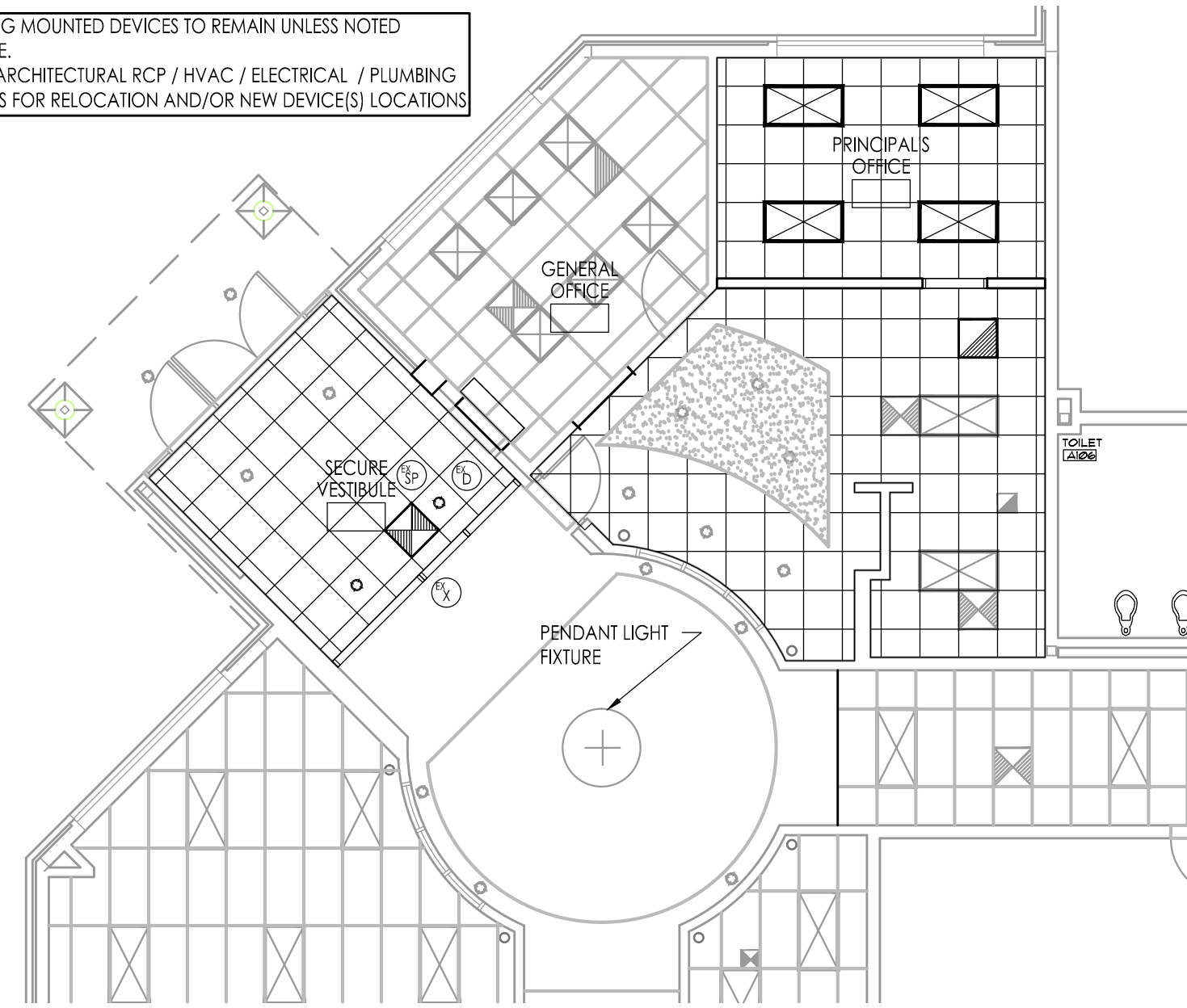
CONSTRUCTION NOTES:

1. AT LOCATION OF ALUMINUM FRAME REMOVE CLEAN PATCH AND REPAIR ANY AREAS OF DAMAGED MASONRY TO MATCH EXISTING. PREPARE MASONRY JOINT AS REQUIRED TO RECEIVE NEW JOINT COVER
2. ELECTRICAL CONTRACTOR TO PROVIDE (2) JUNCTION BOXES ABOVE CEILING AT RELOCATED FRAME.



REFLECTED CEILING PLAN - DEMOLITION
Scale: 1/8" = 1'-0"

ALL CEILING MOUNTED DEVICES TO REMAIN UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL RCP / HVAC / ELECTRICAL / PLUMBING DRAWINGS FOR RELOCATION AND/OR NEW DEVICE(S) LOCATIONS

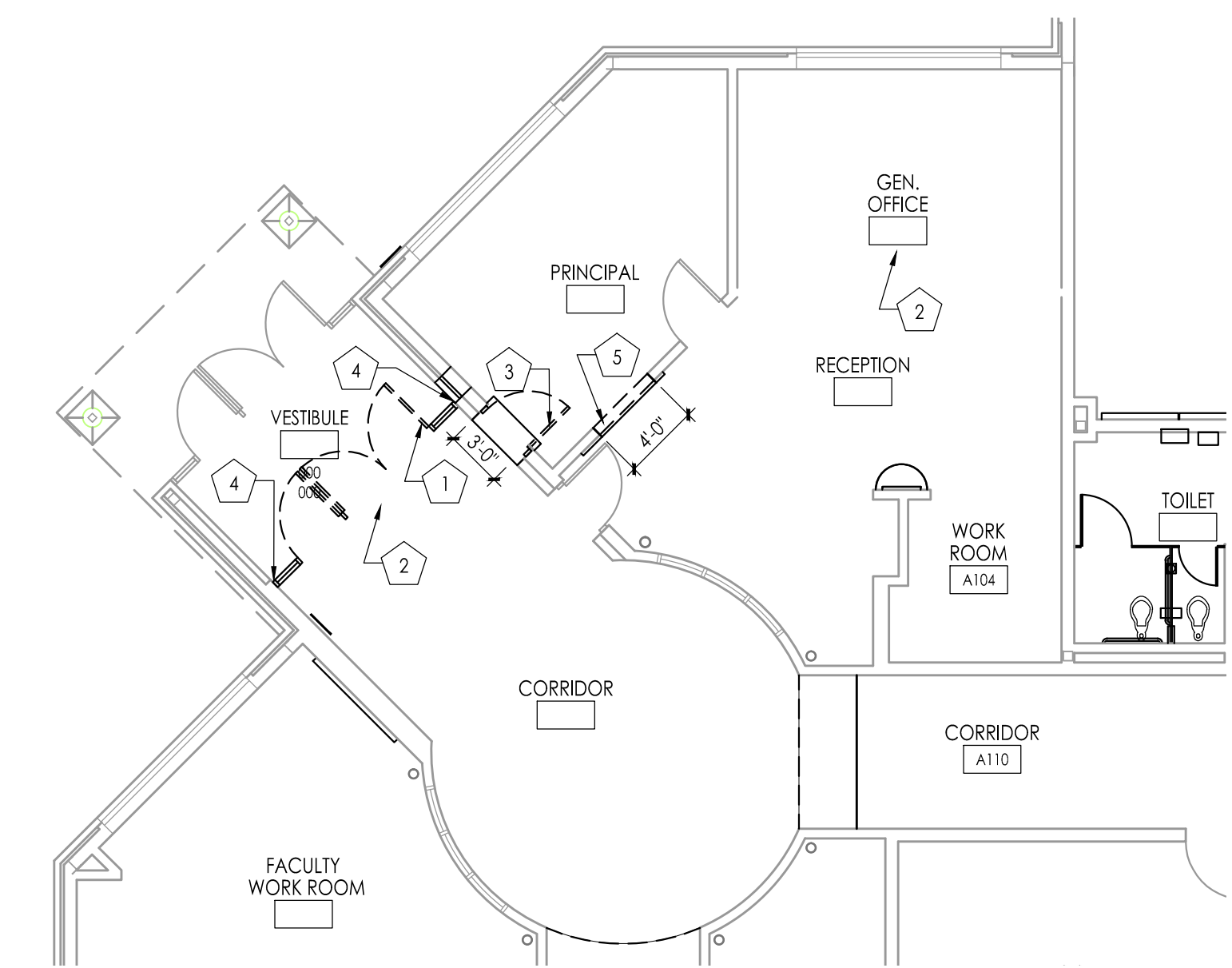
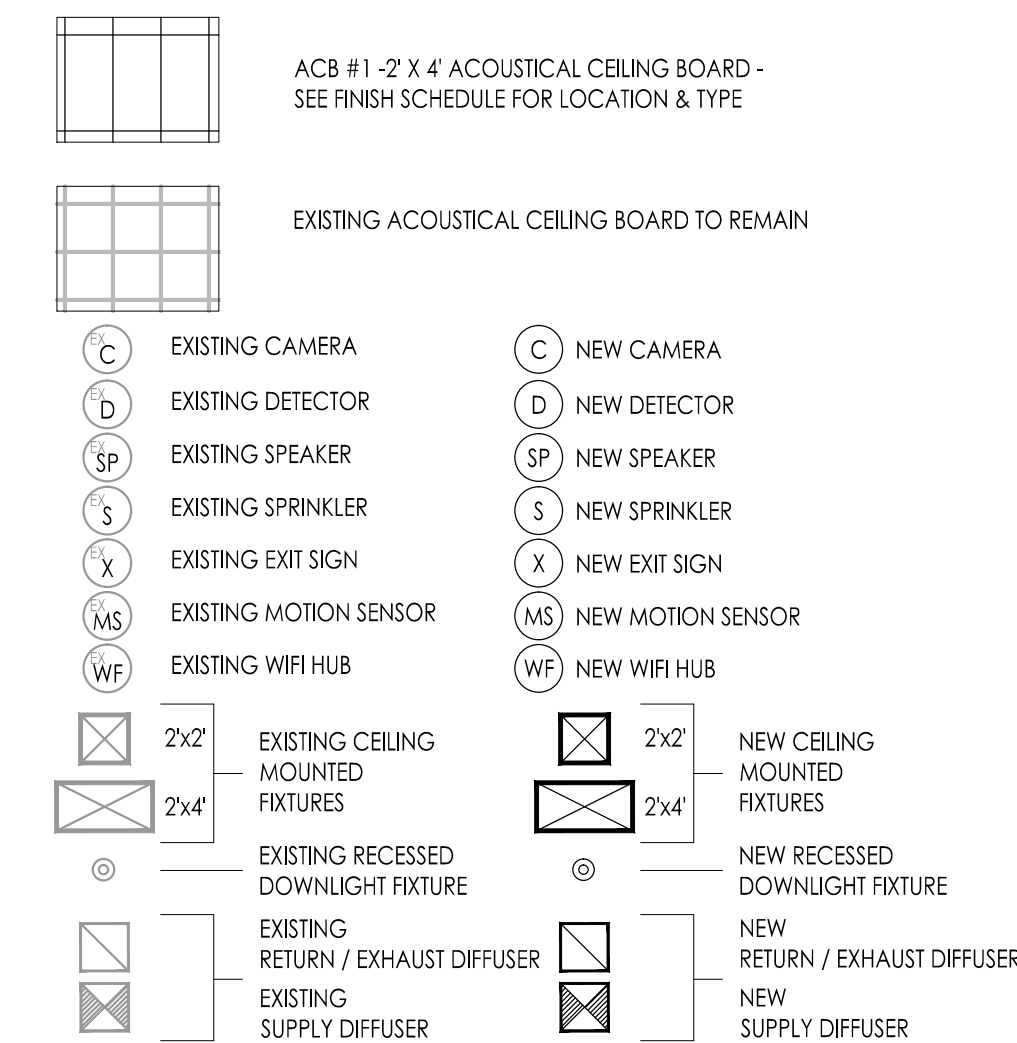


REFLECTED CEILING PLAN
Scale: 1/8" = 1'-0"

REFLECTED CEILING NOTES

1. SEE HVAC AND ELECTRICAL DRAWINGS FOR TYPE, SIZE AND ADDITIONAL INFORMATION ON CEILING MOUNTED DEVICES.
2. ALL NEW DIFFUSERS AND LIGHTS TO BE CENTERED IN THE PANEL UNLESS NOTED OTHERWISE.
3. GENERAL HVAC AND ELECTRICAL CONTRACTORS / SUBCONTRACTORS TO COORDINATE LOCATION OF DIFFUSERS / LIGHTS AND DEVICES.

REFLECTED CEILING PLAN LEGEND



DEMOLITION PLAN
Scale: 1/8" = 1'-0"

DEMOLITION CONSTRUCTION NOTES

GENERAL NOTES:
THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

IN ALL LOCATIONS OF RENOVATION / CONSTRUCTION, CONTRACTOR SHALL PROTECT ALL ITEMS (INCLUDING MURALS) FROM CONSTRUCTION DUST AND DEBRIS AS WELL AS DAMAGE. ALL ITEMS DAMAGED BY THE RENOVATION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

IN ALL LOCATIONS OF RENOVATION / CONSTRUCTION CAREFULLY REMOVE EXISTING PLAQUES / EXHIBITION BOARDS / PICTURES AND TURN OVER TO OWNER. PATCH AND REPAIR ALL DAMAGE FROM REMOVAL TO MATCH EXISTING WALL AND FINISHES & RESTORE TO SMOOTH, FLUSH SURFACE.

WHERE APPLICABLE BRACE AND SHORE UP ANY EXISTING CONSTRUCTION TO REMAIN. REMOVE EXISTING CONSTRUCTION TO LIMITS OF WORK DESCRIBED BY ARCHITECTURAL PLANS & ASSOCIATED HVAC / ELECTRICAL / PLUMBING PLANS. PREPARE FOR POSITIVE CONNECTION OF ALL NEW CONSTRUCTION TO EXISTING CONDITIONS.

1. REMOVE EXISTING INDICATED STOREFRONT DOORS & FRAMES, SIDELIGHTS, TRANSOMS, SADDLES & HARDWARE (CLOSERS, STOPS, BUMPERS ETC.) IN THEIR ENTIRETY. CONTRACTORS SHALL TAKE ALL NECESSARY STEPS TO ENSURE BUILDING SECURITY. CONTRACTOR IS TO PROTECT ALL FINISHES ADJACENT TO DEMOLITION WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY DEMOLITION TO MATCH EXISTING ADJACENT FINISHES, INCLUDING TERRAZZO, BRICK, TILE, BASE, PAINT ETC.
2. AT INDICATED AREA, REMOVE AND STORE EXISTING CEILING PANELS, SUSPENSION GRID AND APPLIANCES TO ACCOMMODATE RENOVATION. AFTER RENOVATION IS COMPLETE, MODIFY EXISTING SUSPENSION GRID TO FIT NEW LENGTHS. RE-INSTALL WITH NEW HANGAR WIRE TO EXISTING STRUCTURE. ALL PANELS, GRID AND APPLIANCES IN DESIGNATED SEE REFLECTED CEILING PLAN AND/OR PLUMBING / HVAC / ELECTRICAL DRAWINGS. REPLACE ALL DAMAGED OR DETERIORATED CEILING PANELS AND SUSPENSION GRID WITH NEW TO MATCH EXISTING. SEE PLUMBING / HVAC / ELECTRICAL DRAWINGS FOR ADDITIONAL WORK REQUIRED. ALL PLUMBING / HVAC / ELECTRICAL WORK, INCLUDING DEMOLITION, PATCHING AND REPAIR, BY RESPECTIVE TRADE CONTRACTOR.
3. REMOVE EXISTING DOOR AND FRAME ASSEMBLY IN ITS ENTIRETY EXISTING LINETS TO REMAIN. REFL. OPENING TO EXTENT SHOWN IN DETAIL AND AS REQUIRED FOR NEW INSTALLATIONS AND CONSTRUCTION.
4. AT LOCATIONS WHERE NEW DOOR FRAME MEETS EXISTING WALL OR FLOOR, CAREFULLY AND NEATLY REMOVE THE EXISTING WALL BASE AND FLOOR FINISH TO ALLOW FOR POSITIVE CONNECTION OF DOOR FRAME CONSTRUCTION DIRECTLY TO THE EXISTING FLOOR AND WALL SUBSTRATES (TILE / TERRAZZO / CONCRETE / BRICK / CMU / ETC.). CLEAN AND PREPARE EXPOSED EXISTING WALL AND EXISTING FLOOR SLAB TO RECEIVE NEW STOREFRONT FRAMING SYSTEM. AFTER DOOR FRAME CONSTRUCTION IS COMPLETE, PATCH AND REPAIR ALL DAMAGE TO EXISTING CONSTRUCTION CAUSED BY RENOVATION TO MATCH EXISTING ADJACENT FINISH. FINISH ALL NEWLY EXPOSED SURFACES TO MATCH EXISTING ADJACENT CONDITIONS.
5. BRACE AND SHORE UP EXISTING ADJACENT WALL CONSTRUCTION TO REMAIN. SAWCUT AND REMOVE EXISTING WALL TO WIDTH INDICATED ON DEMOLITION PLAN AND TO HEIGHT INDICATED ON ELEVATIONS ABOVE EXISTING FLOOR. SEE FLOOR PLAN. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXG. ADJACENT FINISH. WELL OPENING WITH NEW FRAME, MASONRY CONSTRUCTION AND LINTEL OF THICKNESS TO MATCH EXISTING WALL.

ROOM FINISH SCHEDULE JOSEPH C. SHANER ELEMENTARY SCHOOL

RM NO.	ROOM NAME	FLOOR	BASE		WAINSCOT		WALL FINISH				CEILING		REMARKS
			MAT.	HT.	MAT.	HT.	NORTH	SOUTH	EAST	WEST	MAT.	HT.	
A-01	SECURE VESTIBULE	ETR	ETR / RUB	ETR / 4"	n/g	n/g	ETR	ETR	ETR	ETR	ETR	ETR	FINISH SCHEDULE NOTE #
A-17	PRINCIPAL'S OFFICE	ETR	ETR / RUB	ETR / 4"	n/g	n/g	PNT	PNT	PNT	PNT	ETR	ETR	FINISH SCHEDULE NOTE # 1

GENERAL FINISH NOTES

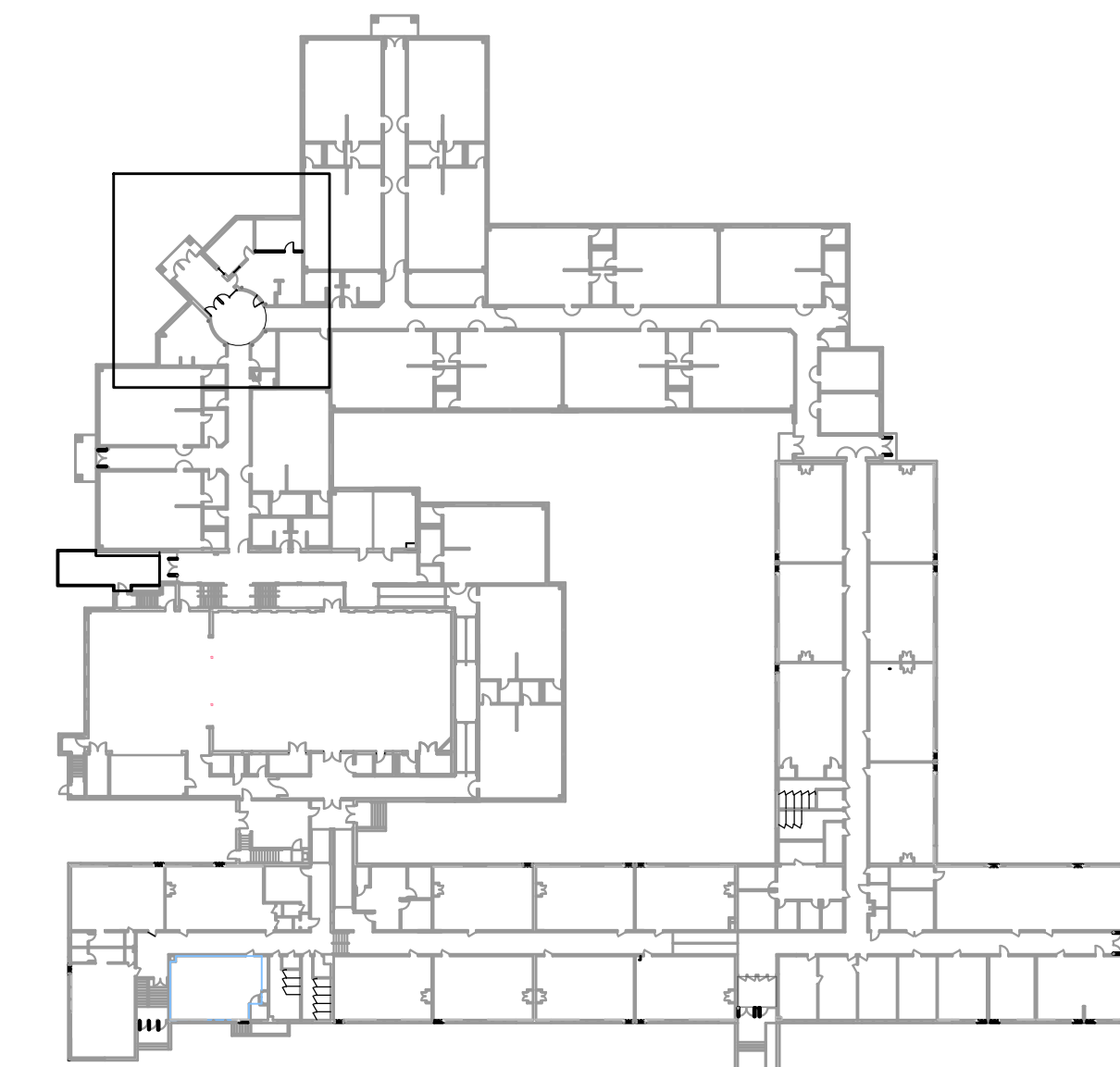
- A. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS / MANUFACTURER / PERFORMANCE AND WARRANTY INFORMATION.
- B. WITHIN THE EXISTING BUILDINGS, AT ALL AREAS OF NEW CONSTRUCTION ADJACENT TO EXISTING, NEW CONSTRUCTION SHALL BE FINISHED TO MATCH EXISTING ADJACENT CONSTRUCTION, INCLUDING BRICK, TILE, PLASTER, BASE, ETC.
- C. AT ALL AREAS OF EXISTING SURFACES BEING PAINTED, THE GENERAL CONSTRUCTION WORK CONTRACTOR SHALL REMOVE PRIOR TO PAINTING AND RE-INSTALL AFTER PAINTING ALL ELECTRICAL DEVICES (SWITCHES, OUTLETS, ETC.) COVER PLATES.
- D. MATERIALS LISTED ON THE FINISH SCHEDULE REFER TO THE MAJORITY OF WALLS, FLOOR AND CEILING OF ROOMS SCHEDULED. REFER TO PLANS, DETAILS, INTERIOR ELEVATIONS, SECTIONS, CEILING PLANS, AND NOTES FOR THOSE MATERIALS NOT INDICATED ON THE SCHEDULE BUT ARE STILL REQUIRED IN THE ROOM.

ROOM FINISH SCHEDULE NOTES

1. REMOVE, MODIFY AND REINSTALL EXISTING ACOUSTIC TILE CEILING AS REQUIRED FOR NEW CONSTRUCTION.

ROOM FINISH ABBREVIATIONS

- ACB - ACOUSTICAL CEILING BOARD
- CEM - CARPET ENTRY MAT
- CMU - CONCRETE MASONRY UNIT
- EP - EPOXY PAINTED
- ETR - EXISTING TO REMAIN
- GYP - GYPSUM BOARD
- PNT - PAINTED
- RUB - RUBBER BASE
- SPT - SPOFF
- VCT - VINYL COMPOSITION TILE
- n/g - NOT APPLICABLE



KEY PLAN
N.T.S.

JOHN J. VEISZ, AIA, CSBA
NO. 214866000 / PA. 84201818
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866000 / PA. 84202504
GEORGE K. DUTHIE, JR., AIA, PP
NO. 214866000

FVH D architects
planners
Frattak Veisz Hopkins Duthie P C
Company: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - North Chazy - Pennsylvania 17435

Project Name
**ALTERATIONS AND
RENOVATIONS TO
JOSEPH C. SHANER
MEMORIAL
ELEMENTARY SCHOOL**

Project Owner Name
**HAMILTON
TOWNSHIP BOARD
OF EDUCATION**

Project Location
**5801 3rd ST
MAYS LANDING,
NJ 08330**

Project Number
4937B

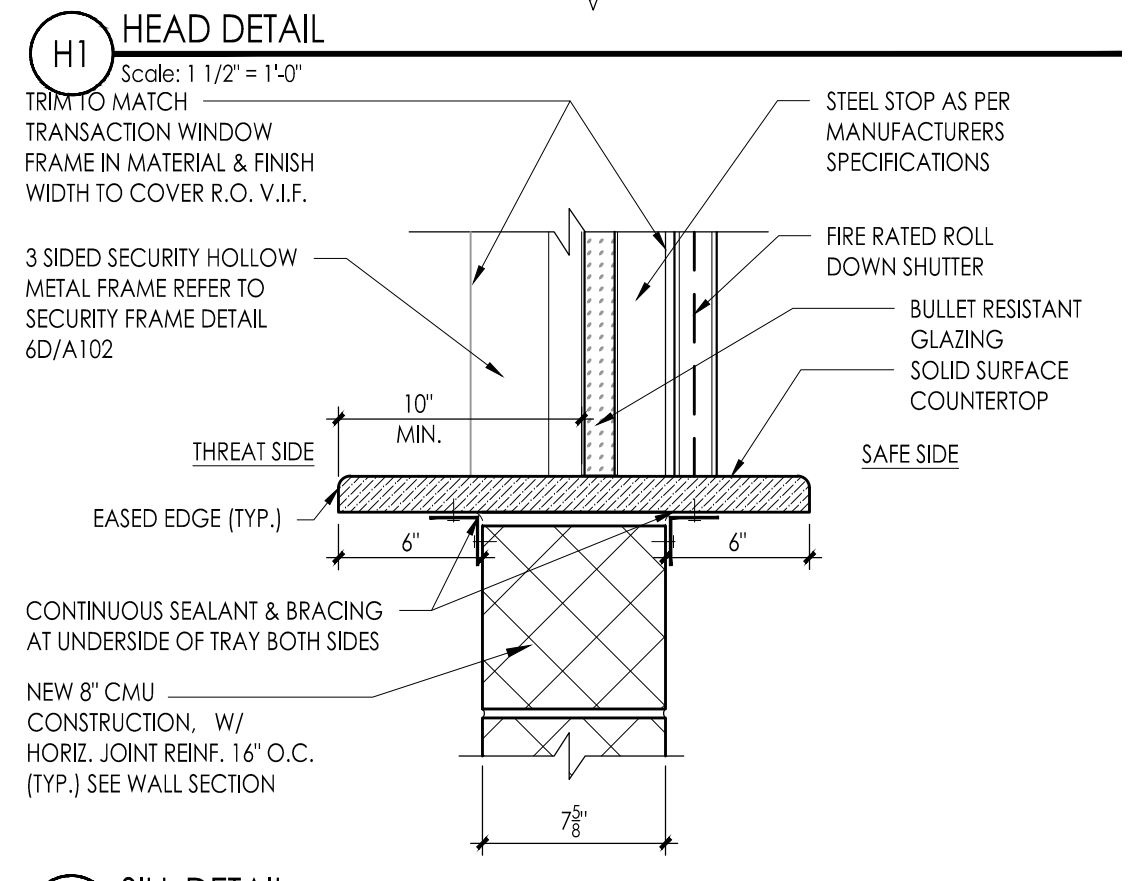
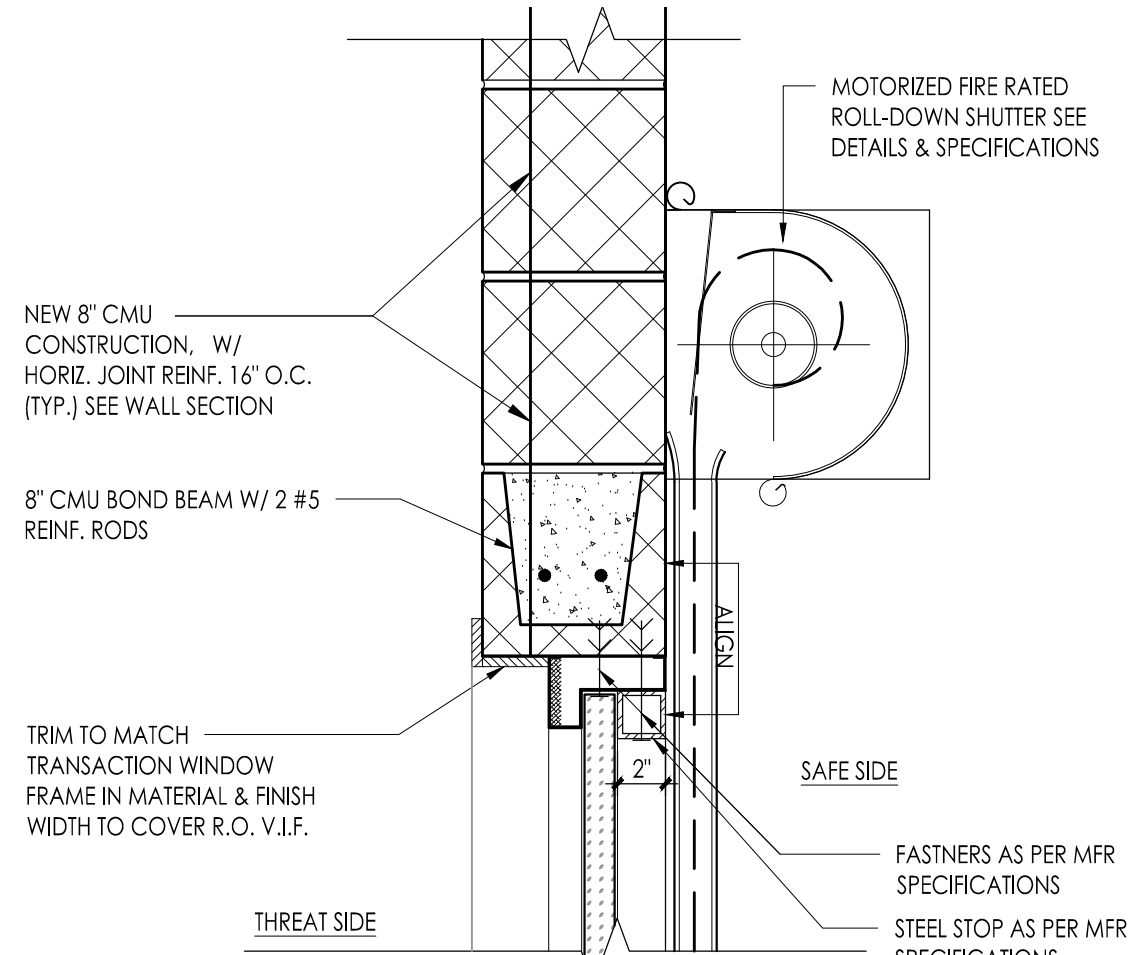
Project Date
02.15.2019

Checked By
JJV
Drawn By
dsb
Scale
1/4" = 1' - 0"

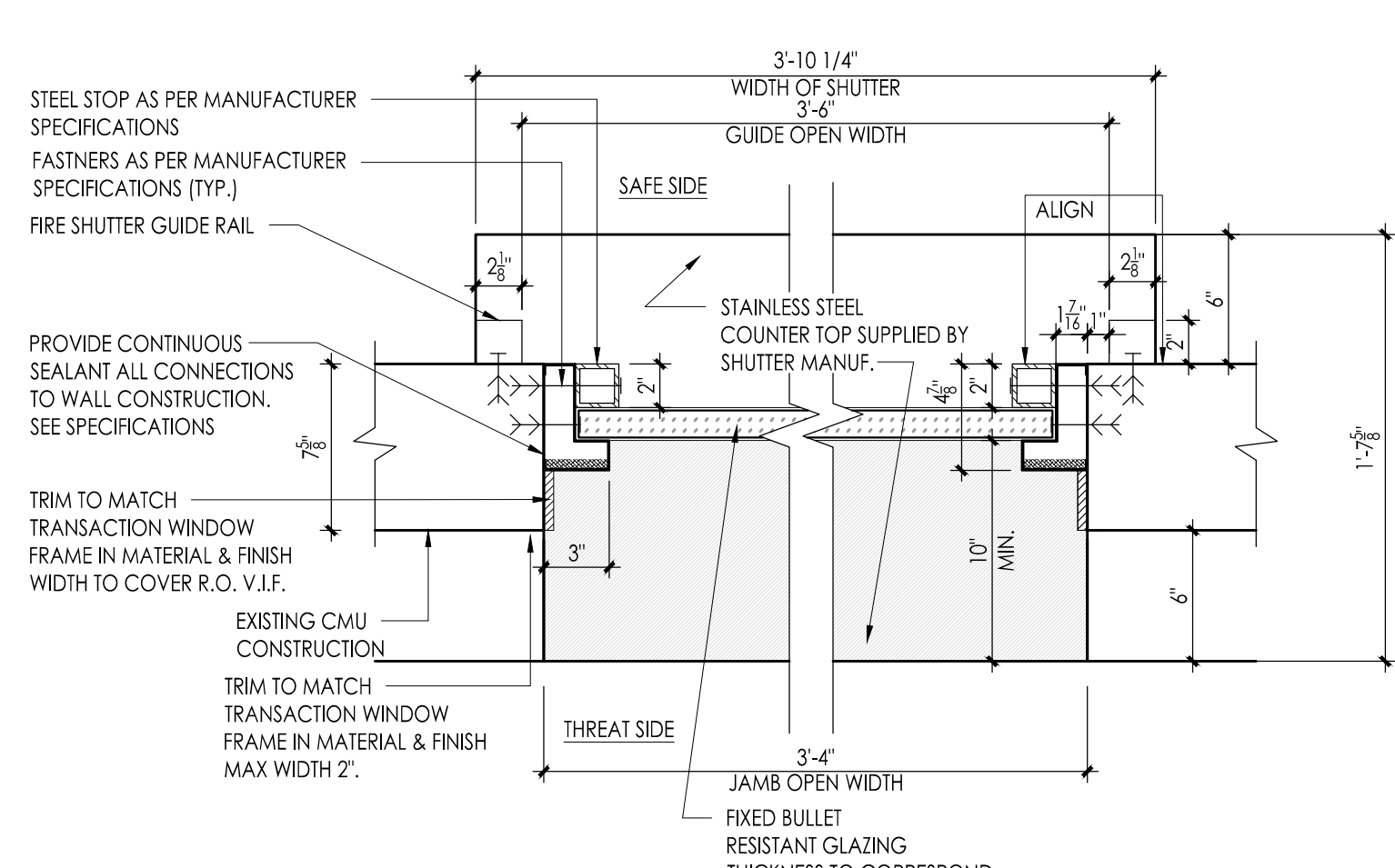
Drawing Name
SECURITY VESTIBULE

Revisions	No.	Date	Description

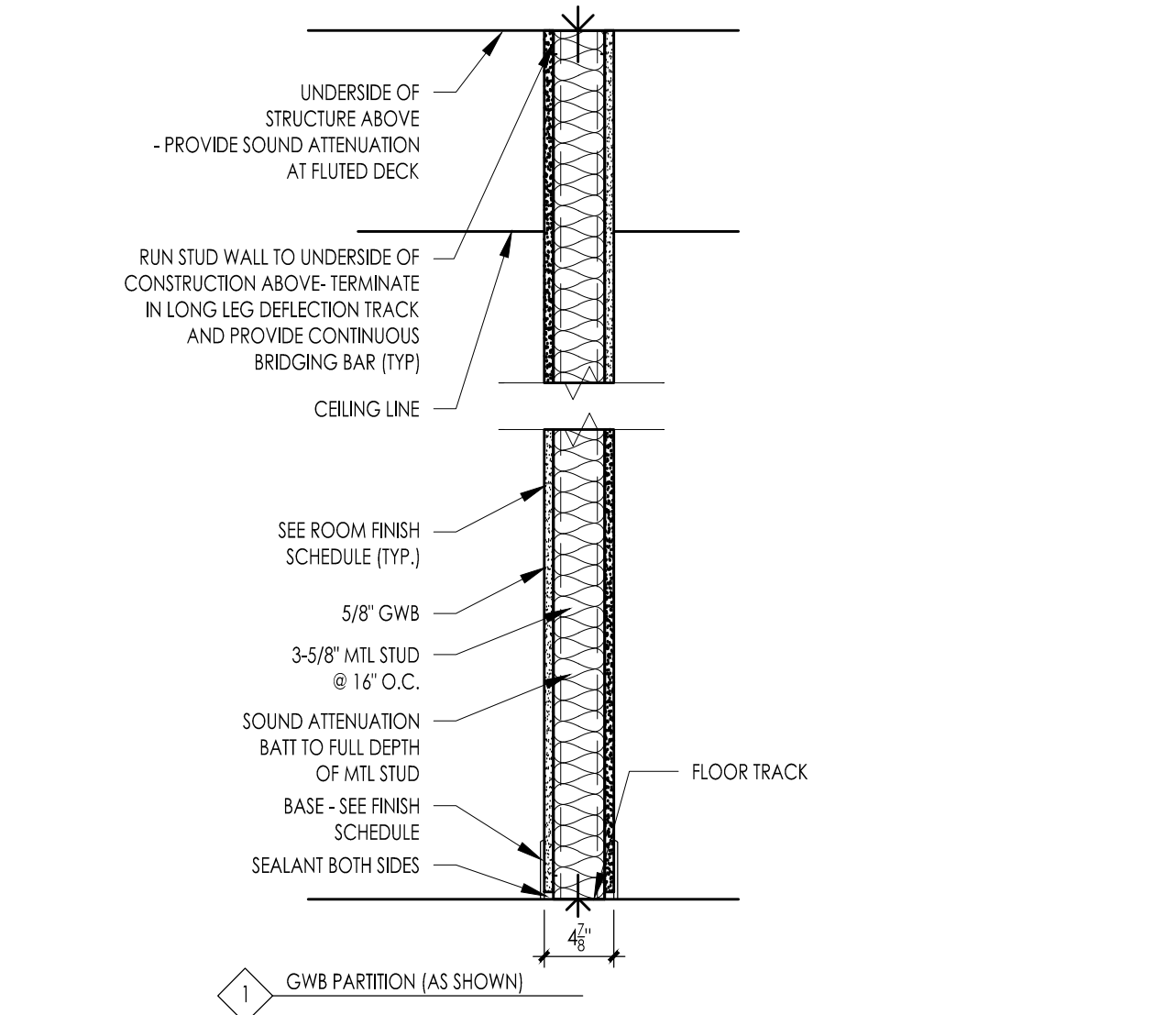
Drawing Number
A100



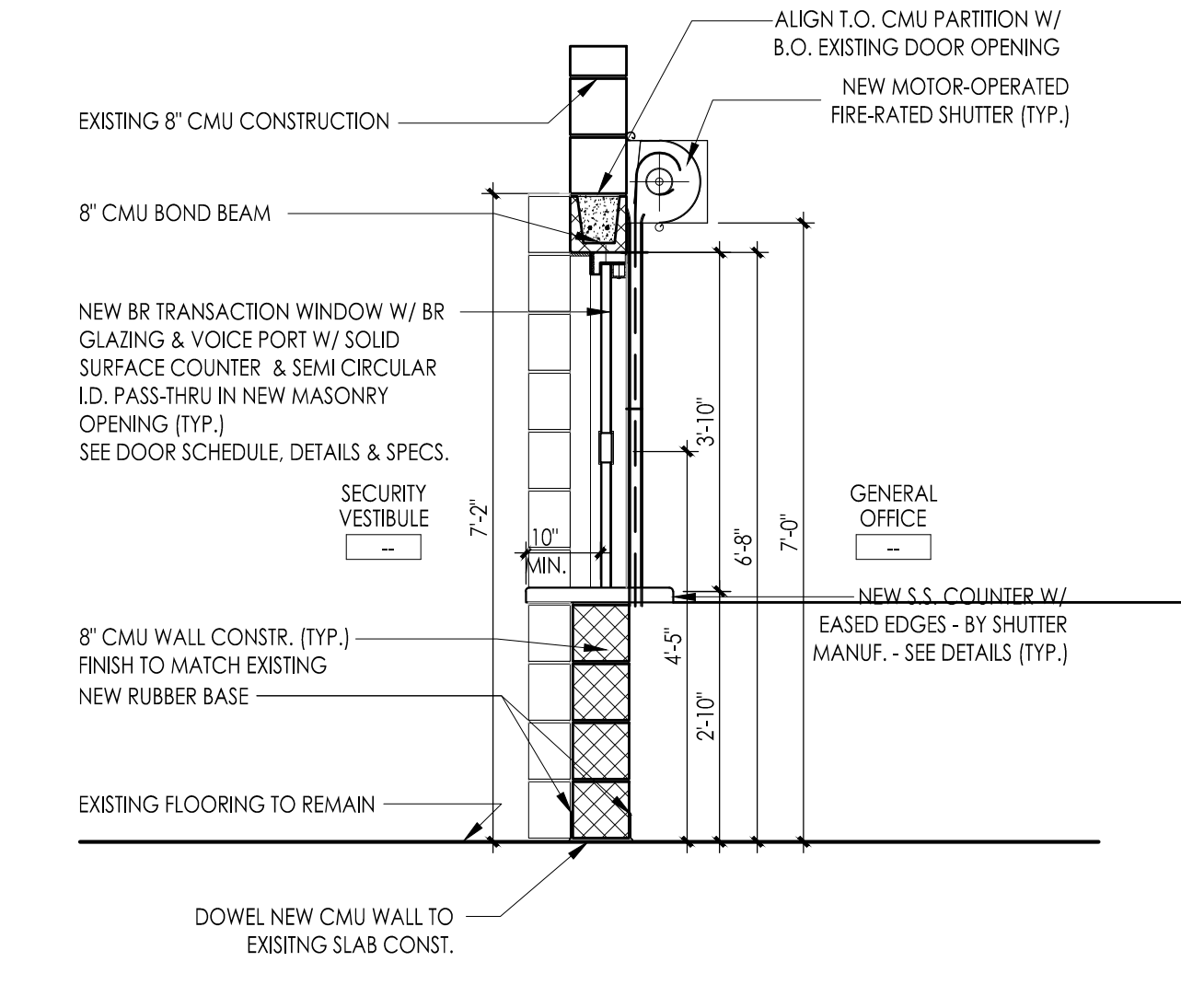
H1 HEAD DETAIL
Scale: 1/12" = 1'-0"



J1 JAMB DETAIL
Scale: 1/12" = 1'-0"



4 PARTITION TYPE @ PRINCIPAL'S OFFICE
Scale: 1" = 1'-0"



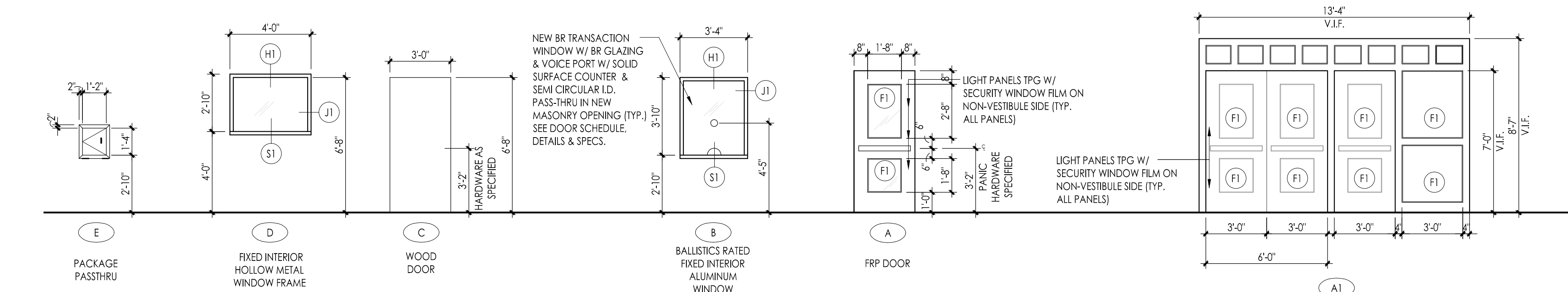
3 WALL SECTION AT TRANSACTION WINDOW
Scale: 1/2" = 1'-0"

DOOR / WINDOW SCHEDULE JOSEPH C. SHANER ELEMENTARY SCHOOL

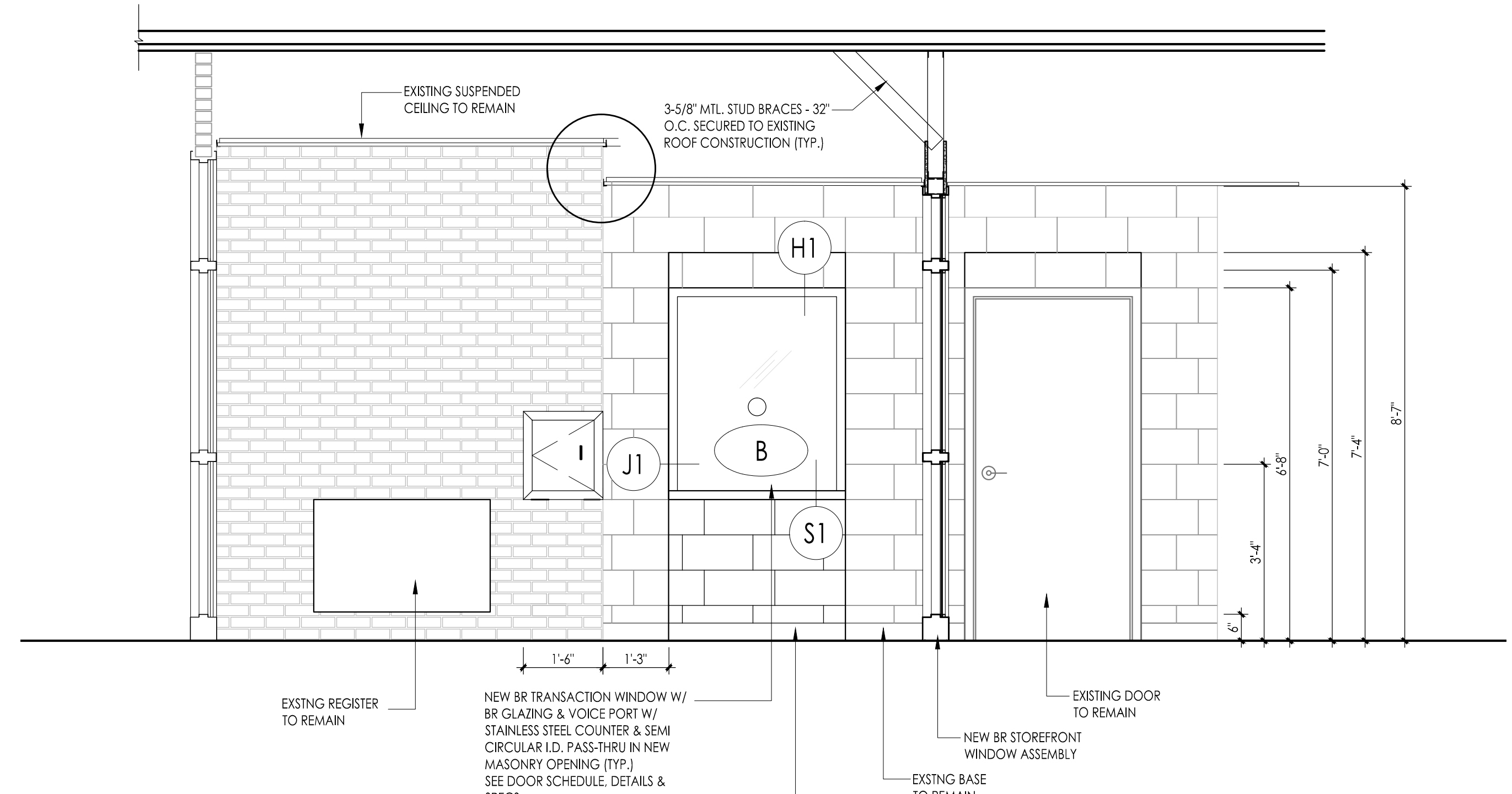
DR NO	DOOR LOCATION	DOOR / WINDOW			FRAME					SILL / SADDLE / THRESHOLD	HARD WARE	RATING	SIGN TYPE	REMARKS	
		TYPE	MAT.	GLASS	TYPE	MAT.	HEAD	JAMB							
S101	SECURITY ENTRY DOOR @ VESTIBULE	(2) 3'-0" x 6'-8"	A	FRP	ETR-F	A1	AL	-	-	-	-	-	-	-	DOOR / WINDOW NOTE # 2, 3
S102	SECURITY ENTRY DOOR @ VESTIBULE	(1) 3'-0" x 6'-8"	A	FRP	TPG-F	A1	AL	-	-	-	-	-	-	-	DOOR / WINDOW NOTE # 1, 4
S103	SECURITY TRANSACTION WINDOW @ VESTIBULE	(1) 3'-4" x 3'-10"	B	-	BRG	-	SHM	H1	J1	-	-	-	-	-	DOOR / WINDOW NOTE #
S104	BORROWED LITE @ RECEPTION	(1) 3'-0" x 7'-0"	D	-	TPG	D	HM	-	-	-	-	-	-	-	DOOR / WINDOW NOTE #
S105	PRINCIPALS OFFICE	(1) 3'-0" x 7'-0"	C	SC-WD	-	C1	HM	-	-	-	-	-	-	-	DOOR / WINDOW NOTE #
S106	PACKAGE PASSER @ SECURE VESTIBULE	(1) 18" x 16" x 19"	E	SC-WD	-	-	PTD-MTL	-	-	-	-	-	-	-	DOOR / WINDOW NOTE #

GENERAL DOOR / WINDOW NOTES DOOR / WINDOW SCHEDULE NOTES DOOR / WINDOW ABBREVIATIONS

- SEE DOOR ELEVATION TYPES, HEAD / JAMB / MULLION / SILL / SADDLE DETAILS AND SIGNAGE TYPES / DETAILS ON DRAWING A01.
 - SEE FRAME ELEVATION TYPES ON THIS DRAWING.
 - ALL DOORS ARE 1 1/2" THICK UNLESS OTHERWISE NOTED.
 - ELECTRONIC LOCK WITH REMOTE LATCH RELEASE ON LHR LEAF - SEE SPECIFICATIONS
 - PROXIMITY READER BY OWNER
 - EXISTING DOORS TO BE RELOCATED PROVIDE NEW LOCKABLE PANIC HARDWARE
 - NEW DOOR TO MATCH EXISTING
- AL - ALUMINUM
BR - BALLISTIC RATED
BRG - BALLISTIC RATED GLAZING
ETR - EXISTING TO REMAIN
ETR-F - EXISTING TO REMAIN / W/ APPLIED SECURITY FILM
ETR-FF - EXISTING TO REMAIN / VERIFY IN FIELD
FRP - FIBERGLASS REINFORCED POLYESTER
HM - HOLLOW METAL
MTL - METAL
PTD - PAINTED
SHM - SECURITY HOLLOW METAL
SC - SOLID CORE
TPG-F - TEMPLERED PLATE GLASS W/ SECURITY WINDOW FILM
WD - WOOD
n/a - NOT APPLICABLE



1 DOOR / WINDOW / FRAME TYPES
Scale: 1/4" = 1'-0"



2 ELEVATION AT SECURE VESTIBULE
Scale: 1/2" = 1'-0"

JOHN J. VEIZ, AIA, CCSFA
PRINCIPAL
WILLIAM D. HOPKINS III, AIA, LEED AP
ARCHITECT
GEORGE K. DUTHIE JR., AIA, PP
ARCHITECT

FVHD architects
planners

Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - North Chazy - Pennsylvania 17453

F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**5801 3rd ST
MAYS LANDING,
NJ 08330**

Project Number
4937B

Project Date
02.15.2019

Checked By
JJV

Drawn By
dsb

Scale
1/4" = 1' - 0"

Drawing Name
SECURITY VESTIBULE

No.	Date	Description

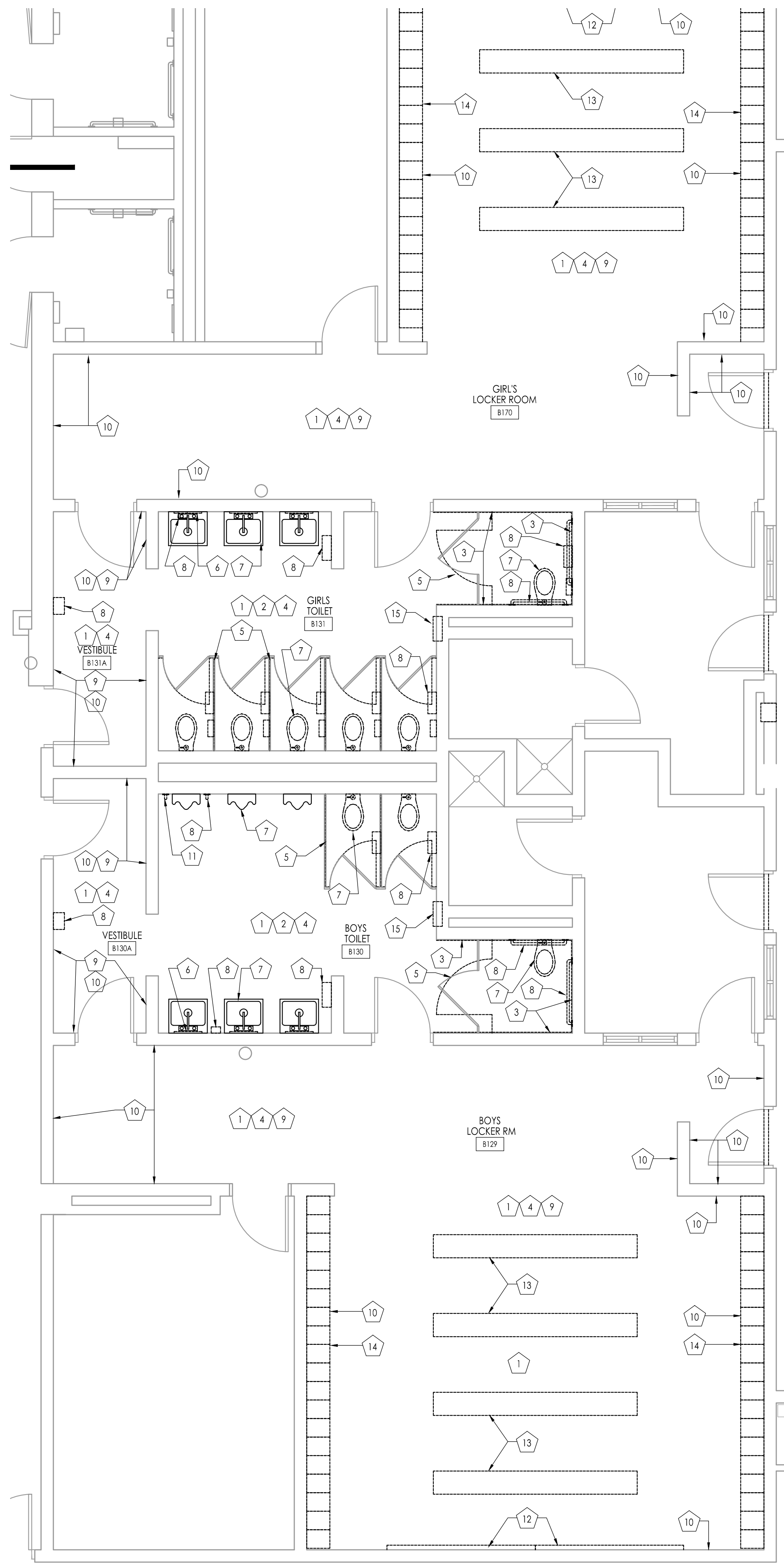
Drawing Number
A101

GENERAL DEMOLITION NOTES:

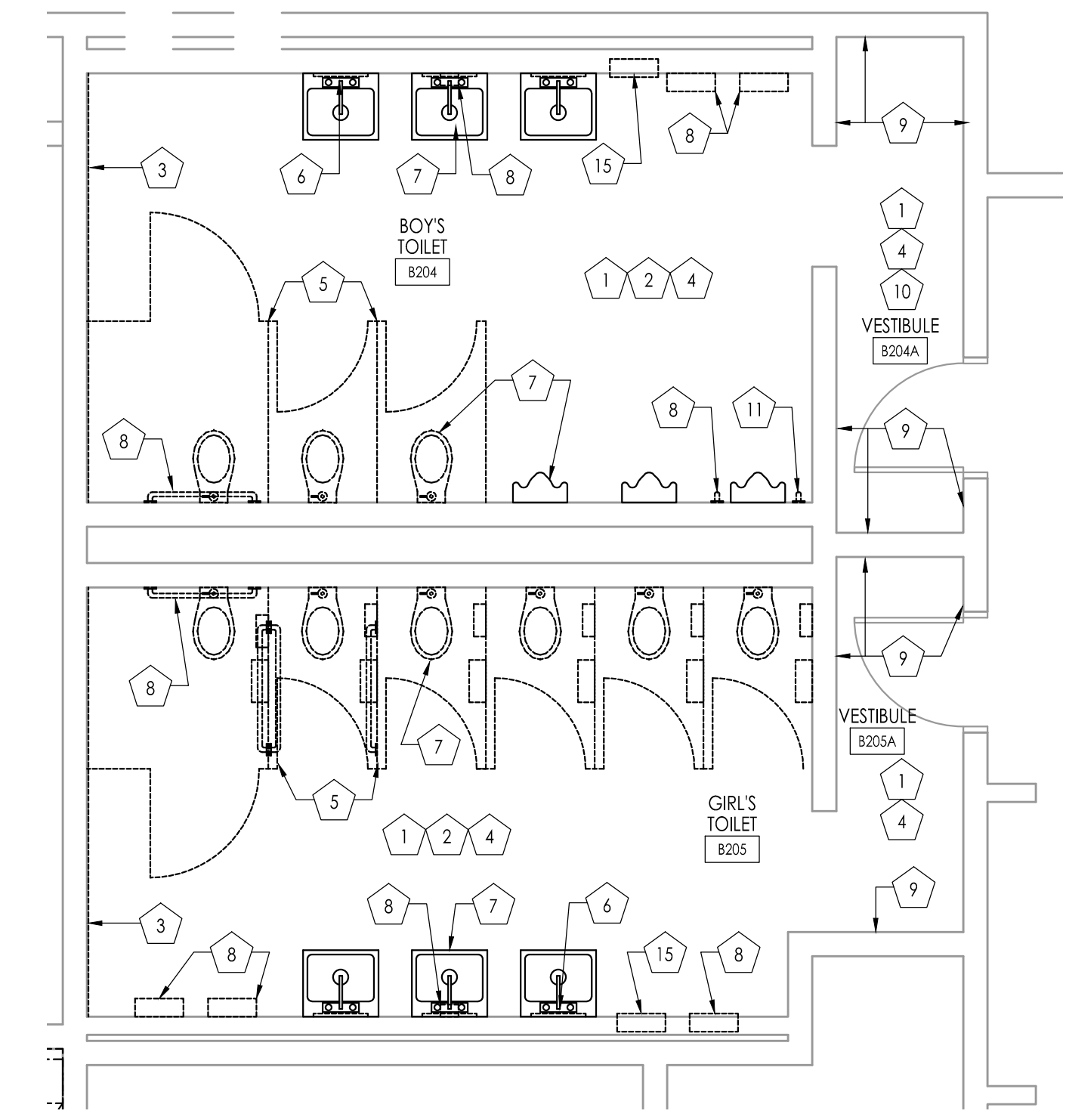
- A. ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE AND VERIFY ALL AREAS AND CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. FAILURE TO DO SO NOTIFY THE ARCHITECT INDICATES THAT ANY ADDITIONAL COSTS ASSOCIATED WITH THE DISCREPANCIES AND / OR OMISSIONS ARE INCLUDED IN THE CONTRACTOR'S BID AND THAT NO CHANGE TO THE CONTRACT AMOUNT WILL BE MADE AFTER THE RECEIPT OF BIDS OR THE AWARD OF CONTRACTS.
- B. ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. ALL EQUIPMENT, DEVICES, FIXTURES, ETC. SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE CONTRACTOR. NOTE: THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DIMINISHED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED.
- C. UNLESS NOTED OTHERWISE ALL DEMOLITION MATERIAL SHALL BE REMOVED OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D. THERE ARE SOME SPECIFIC ITEMS DESIGNATED BY THE ARCHITECT FOR SALVAGE. THESE ITEMS ARE INTENDED FOR REUSE IN THE NEW WORK. THE CONTRACTOR MUST TAKE CARE IN THE REMOVAL AND STORAGE OF THESE ITEMS UNTIL THEY ARE NEEDED IN THE NEW CONSTRUCTION.
- E. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF THE EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE. REFER TO FLOOR PLAN DRAWINGS FOR FINISHING OF THESE AREAS.
- F. IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT SURFACES AND FINISHED TO PROVIDE A UNIFORM APPEARANCE WITH REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL.
- G. THE CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AND DIRT AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE. ALL TEMPORARY PARTITIONS SHALL BE 1 HOUR RATED CONSTRUCTION AND INCLUDE A DOOR.
- H. NO DEMOLITION SHALL BEGIN UNTIL PROPER PROTECTION IS IN PLACE AND APPROVED BY ARCHITECT & OWNER TO ENSURE THE SAFETY OF THE PUBLIC, THE BUILDING OCCUPANTS, CONSTRUCTION WORKERS AND TO CONTAIN DUST AND DIRT WITHIN THE AREA OF DEMOLITION.
- I. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REGARDING THE REMOVAL AND DISPOSAL OF ALL MATERIALS & EQUIPMENT.
- J. THE CONTRACTORS SHALL TAKE INTO ACCOUNT THEIR METHODS OF CONSTRUCTION FOR THE NEW WORK AND INCLUDE IN THEIR BID THE COST OF ADDITIONAL DEMOLITION WORK NECESSARY TO FACILITATE THE CONSTRUCTION.
- K. THE DEMOLITION WORK SHOWN ON THIS PLAN IS INTENDED TO BE A GENERAL OVERVIEW OF MAJOR DEMOLITION WORK REQUIRED. IT IS NOT A COMPLETE AND EXCLUSIVE REPRESENTATION OF ALL DEMOLITION WORK NEEDED FOR EXECUTION OF THE PROJECT. WHEN PREPARING THEIR BIDS, CONTRACTORS MUST REFER TO THE FULL SET OF CONSTRUCTION DOCUMENTS FOR VARIOUS MISCELLANEOUS ITEMS WHICH MUST BE REMOVED AND/OR RELOCATED AS PART OF THE WORK.
- L. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING - SEE SPECIFICATION.

DEMOLITION / CONSTRUCTION NOTES (TOILET RENOVATIONS):

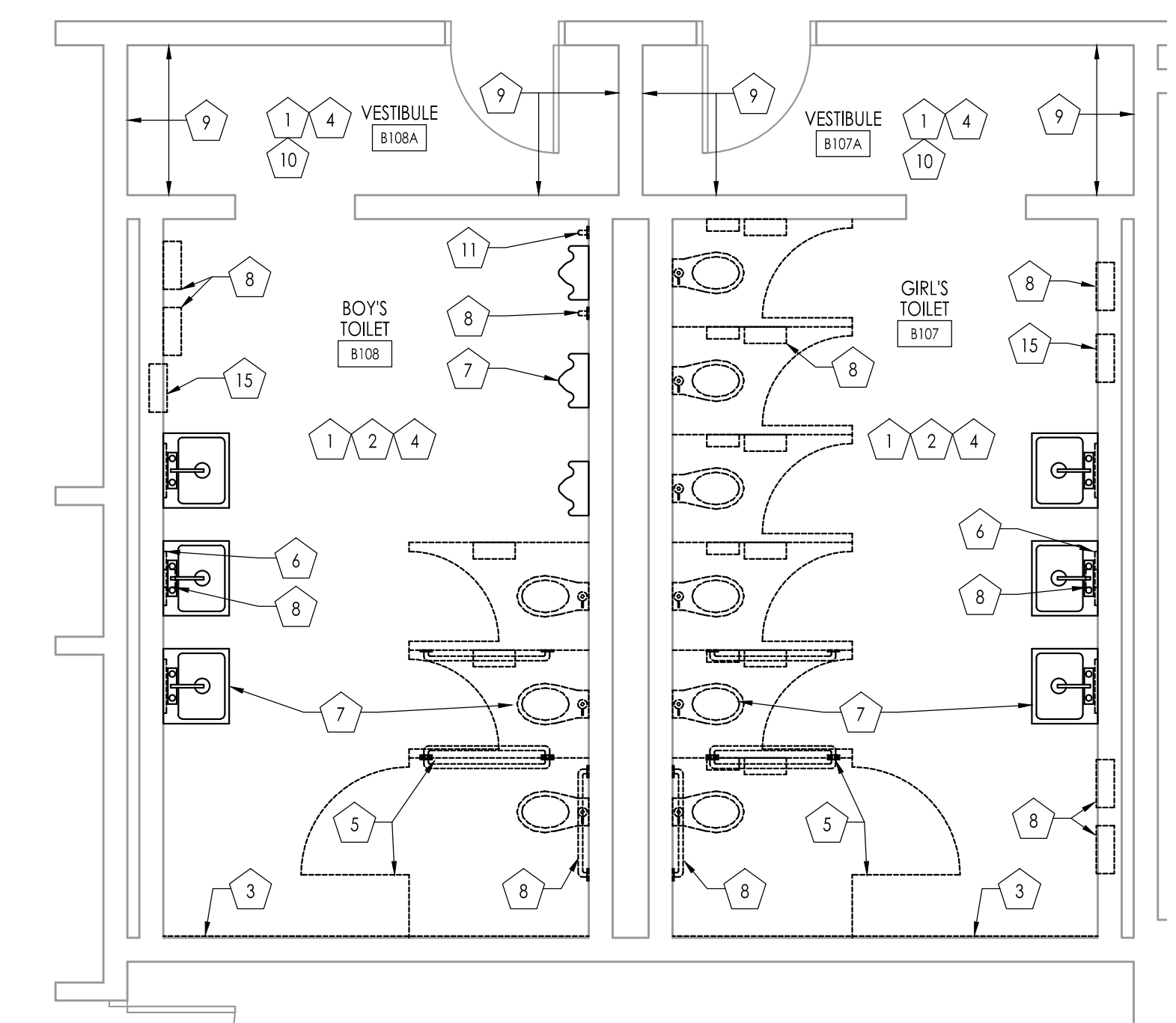
- 1. EXISTING CERAMIC TILE FLOOR FINISH TO REMAIN. INSTALL NEW TILE FLOOR FINISH OVER EXISTING TILE. PREPARE EXISTING FLOOR TILE PER NEW TILE MANUFACTURE RECOMMENDATION FOR INSTALLATION OVER EXISTING TILE.
 - 2. EXISTING CERAMIC WALL TILE TO REMAIN ON ALL WALLS EXCEPT THOSE NOTED TO HAVE EXISTING TILE REMOVED. INSTALL NEW TILE WALL FINISH OVER EXISTING TILE. PREPARE EXISTING WALL TILE PER NEW TILE MANUFACTURE RECOMMENDATION FOR INSTALLATION OVER EXISTING TILE.
 - 3. EXISTING CERAMIC WALL TILE TO BE REMOVED IN ITS ENTIRETY. PREPARE EXISTING WALL TO ACCEPT NEW TILE WALL FINISH. INSTALL NEW TILE WALL FINISH FULL LENGTH AND HEIGHT OF WALL.
 - 4. PAINT EXISTING GYPSUM BOARD CEILING IN ITS ENTIRETY. PRIOR TO PAINTING, PROTECT ANY CEILING MOUNTED DEVICES AND REPAIR ANY CRACKS, GOUGES, HOLES, ETC. TO A FLUSH CONDITION. ALL EXISTING LIGHTING FIXTURES TO REMAIN. PAINT ALL CEILING MOUNTED SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS IN THEIR ENTIRETY.
 - 5. REMOVE ALL EXISTING TOILET PARTITIONS, MOUNTING BRACKETS ETC. IN THEIR ENTIRETY. INVENTORY AND RECORD WHERE ALL PIECES WERE REMOVED FOR FUTURE INSTALLATION. SAFELY STORE ALL PARTITIONS AND RELATED MOUNTING BRACKETS. ALL TOILET PARTITIONS ARE TO BE RE-INSTALLED IN SAME LOCATIONS THEY WERE REMOVED. ALL GRAB BARS, TOILET TISSUE, NAPKIN DISPENSERS ETC. THAT ARE ATTACHED TO PARTITIONS ARE TO BE RE-INSTALLED BACK ON TO PARTITION IN SAME LOCATION IF REMOVED DURING DEMOLITION.
 - 6. REMOVE ALL WALL MOUNTED MIRRORS IN THEIR ENTIRETY. SAFELY STORE DURING CONSTRUCTION. DOCUMENT HEIGHT ABOVE FINISHED FLOOR ALL MIRRORS WERE MOUNTED. RE-INSTALL MIRRORS OVER SINKS AT SAME HEIGHTS AS PREVIOUSLY INSTALLED. ALL MIRRORS TO BE CENTERED OVER NEW SINKS.
 - 7. REFER TO PLUMBING DRAWINGS FOR DEMOLITION AND NEW WORK NOTES.
 - 8. ALL WALL MOUNTED TOILET ACCESSORIES INCLUDING BUT NOT LIMITED TO, SOAP DISPENSERS, ELECTRIC HAND DRYERS, PAPER TOWEL DISPENSERS, NAPKIN DISPENSERS AND GRAB BARS ARE TO BE REMOVED AND SAFELY STORED DURING CONSTRUCTION. RE-INSTALL IN SAME LOCATIONS AND HEIGHTS AS PREVIOUSLY INSTALLED. SOAP DISPENSERS WILL NOT BE RE-USED.
 - 9. EXISTING CMU WALL FINISH TO REMAIN - PAINT.
 - 10. REMOVE EXISTING 4" HIGH CERAMIC TILE WALL BASE IN ITS ENTIRETY. PATCH AND PREPARE EXISTING CMU WALL AS NECESSARY FOR INSTALLATION ON NEW TILE BASE.
 - 11. REMOVE EXISTING VERTICALLY MOUNTED GRAB BAR AND HAND OVER TO OWNER.
 - 12. REMOVE EXISTING CHALK BOARDS IN THEIR ENTIRETY. DOCUMENT EXISTING MOUNTING HEIGHT PRIOR TO REMOVAL. RE-INSTALL BOARDS IN SAME LOCATION AND HEIGHT ON WALL AFTER NEW TILE IS INSTALLED.
 - 13. REMOVE EXISTING BENCHES AND SAFELY STORE. PRIOR TO REMOVAL DOCUMENT LOCATION OF EACH BENCH AND RE-INSTALL AFTER FLOOR TILE INSTALLATION IN SAME LOCATION. PRIOR TO INSTALLATION PAINT METAL SUPPORT BASES OF EACH BENCH.
 - 14. REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY. CONCRETE BASE TO REMAIN. INSTALL NEW METAL LOCKERS WITH SLOPED TOPS IN SAME LOCATION AS LOCKERS REMOVED. REFER TO LOCKER SCHEDULE AND SPECIFICATIONS FOR TYPES.
 - 15. REMOVE EXISTING RECESSED PAPER TOWEL DISPENSER/DISPOSAL. INFILL OPENING WITH 1/2" MOISTURE/MOLD RESISTANT GYP. BD OVER 3/8" METAL STUDS. ALUGH FACE OF GYP. BD. WITH FACE OF EXISTING CERAMIC TILE.
- ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. ALL EQUIPMENT, DEVICES, FIXTURES, ETC. SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE CONTRACTOR. NOTE: THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DIMINISHED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED DURING CONSTRUCTION. ALL DEVICES ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.



DEMOLITION PLAN - BOY'S TOILET B130, GIRL'S TOILET B131, TOILET 133, TOILET 134
Scale : 1/4" = 1'-0"



DEMOLITION PLAN - BOY'S TOILET B204, GIRL'S TOILET B205
Scale : 1/4" = 1'-0"



DEMOLITION PLAN - GIRL'S TOILET B107, BOY'S TOILET B108
Scale : 1/4" = 1'-0"

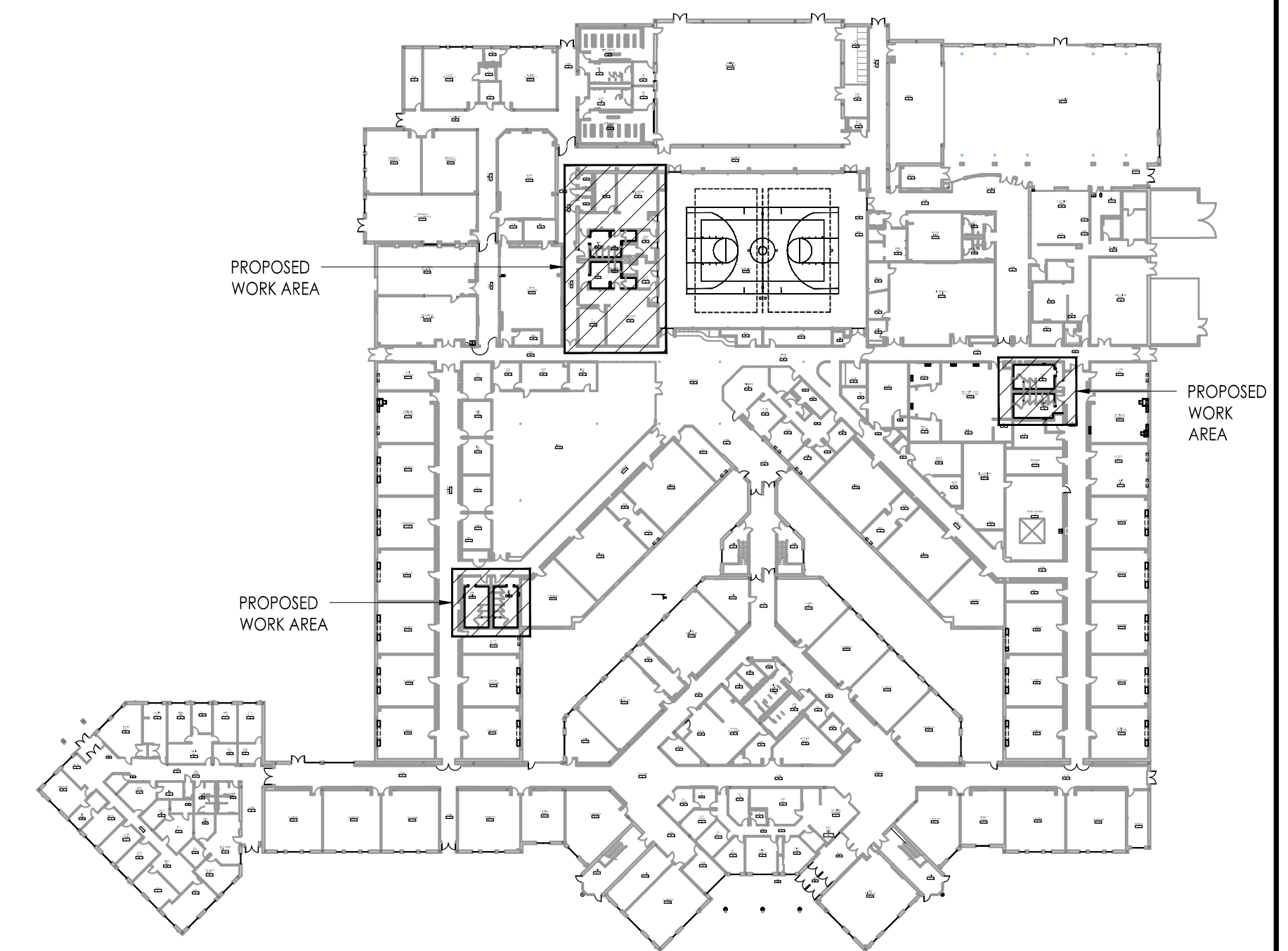
CONSTRUCTION KEY LEGEND

RENOVATION ARE DESIGNED UNDER THE NEW JERSEY REHABILITATION SUB-CODE.

APPLICABLE CODES:

THIS PROJECT WAS DESIGNED UNDER THE FOLLOWING CODES:

CONSTRUCTION CODE (RENOVATION) - NEW JERSEY REHABILITATION SUBCODE S-23-6
 BUILDING SUBCODE - INTERNATIONAL BUILDING CODE 2015 - NJ EDITION
 BARRIER-FREE SUBCODE - N.J.A.C. 5:23-7 AND ICC-ANSI A117.1-2009
 PLUMBING SUBCODE - NATIONAL STANDARD PLUMBING SUBCODE 2015
 MECHANICAL SUBCODE - INTERNATIONAL MECHANICAL CODE 2015
 ELECTRICAL SUBCODE - NATIONAL ELECTRICAL CODE 2014
 FUEL GAS SUBCODE - INTERNATIONAL FUEL GAS CODE 2015
 ENERGY CONSERVATION SUBCODE - ASHRAE 90.1 2013



BUILDING KEY PLAN
Scale : NOT TO SCALE

JOHN J. VEIZ, AIA, CSQA
 NJ-21486600 / PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-31442001 / PA-84202504
 GEORGE K. DUTHIE JR., AIA, FP
 NJ-21487200 / PA-84202500

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P.C.
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - Mont-Care - Pennsylvania 17403

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330

Project Number
4937C
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
JMK
 Scale
AS NOTED

Drawing Name
TOILET DEMOLITION PLANS

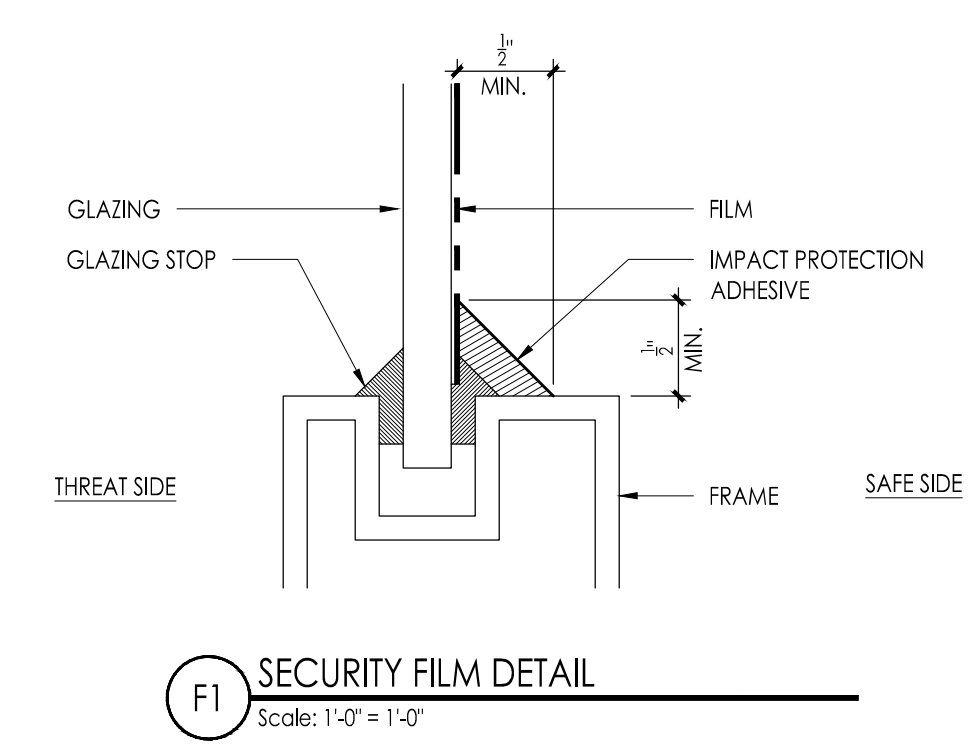
Revisions		
No.	Date	Description

Drawing Number
A101

DOOR / WINDOW SCHEDULE

JOSEPH C. SHANER

DR NO	DOOR LOCATION	DOOR / WINDOW			FRAME		REMARKS
		SIZE	MAT.	GLASS	TYPE	MAT.	
S101	EXTERIOR ENTRY DOOR @ SECURITY VESTIBULE	x	FRP	ETR-F	A	AL	DOOR NOTE #
S102	EXTERIOR ENTRY DOOR @ SECURITY VESTIBULE	x	FRP	ETR-F	A	AL	DOOR NOTE #
S103	EXTERIOR ENTRY DOOR @ K2/K3 CORRIDOR	x	x	ETR-F	B	AL	DOOR NOTE #
S104	EXTERIOR ENTRY DOOR @ K7-K8 CORRIDOR	x	x	ETR-F	B	AL	DOOR NOTE #
S105	EXTERIOR ENTRY DOOR @ K9/1ST GRADE	x	x	ETR-F	C	AL	DOOR NOTE #
S106	EXTERIOR ENTRY DOOR @ LIBRARY/RESOURCE	x	x	ETR-F	E	AL	DOOR NOTE #
S107	EXTERIOR ENTRY DOOR @ ADMIN/1ST GRADE	x	x	ETR-F	F	AL	DOOR NOTE #
S108	EXTERIOR ENTRY DOOR @ SPECIAL ED/CAFETERIA	x	x	ETR-F	F	AL	DOOR NOTE #
S109	EXTERIOR ENTRY DOOR @ SPECIAL ED/1ST GRADE	x	x	ETR-F	G	AL	DOOR NOTE #
S110	EXTERIOR ENTRY DOOR @ SPECIAL ED/CAFETERIA	x	x	ETR-F	D	AL	DOOR NOTE #
S111	EXTERIOR ENTRY DOOR @ SPECIAL ED/SPECIAL ED15	x	x	ETR-F	B	AL	DOOR NOTE #

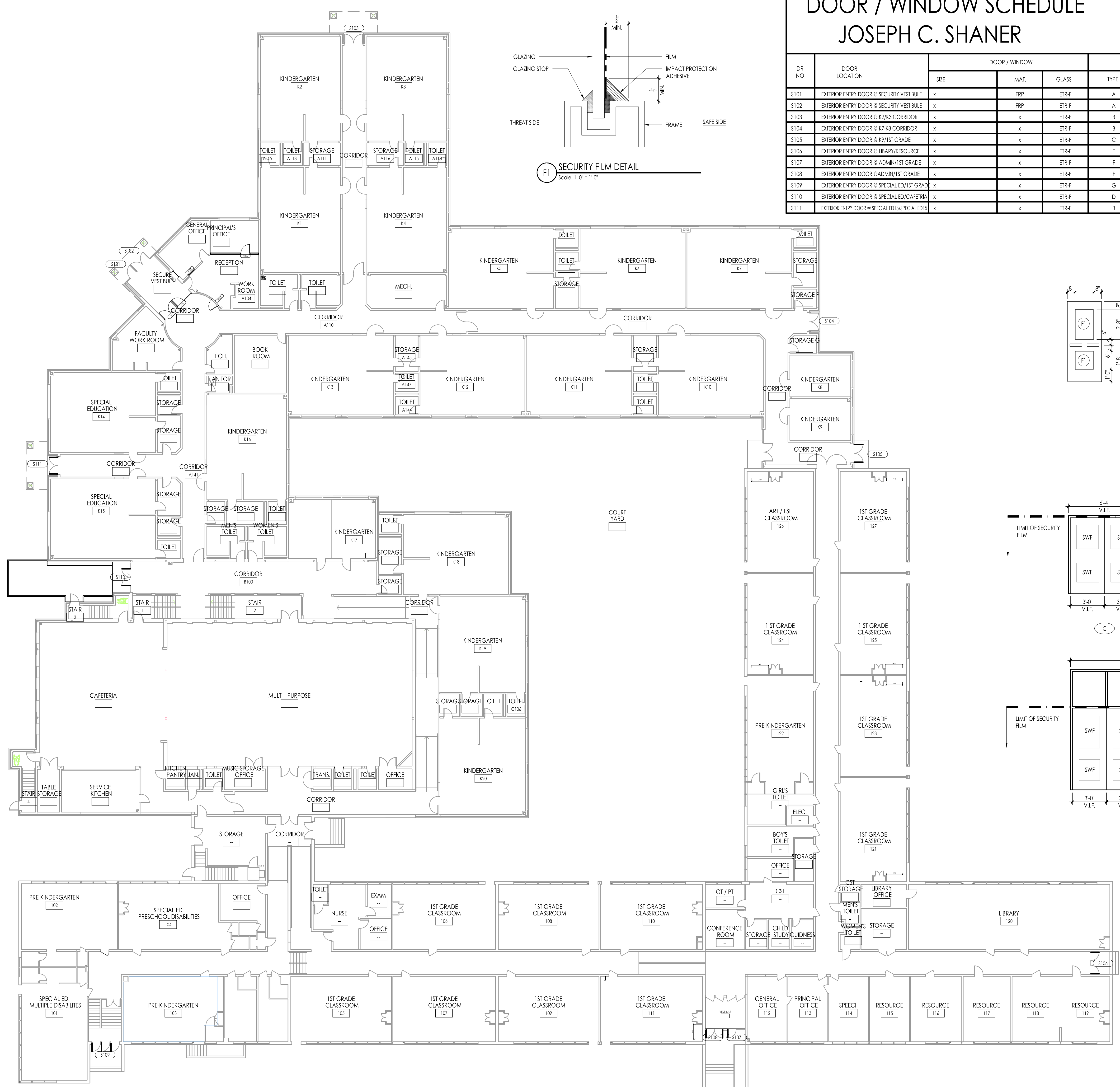


DOOR SCHEDULE NOTES

- INSTALL NEW WINDOW SECURITY FILM ON EXISTING GLAZING WHERE INDICATED BY ABBREVIATION "SWF" ON GLAZING PANELS IN EXISTING DOOR FRAMES. ALL SECURITY GLAZING TO BE INSTALLED ON SAFE SIDE OF FRAME SEE DETAIL F1. REFER TO EXISTING EXTERIOR FRAME TYPES AND FLOOR PLAN FOR EXTENT OF WORK.
- ALL AREAS OF GLAZING TO RECEIVE SECURITY FILM TO BE VERIFIED IN FIELD.

ABBREVIATIONS

ETR - EXISTING TO REMAIN
SWF - SECURITY WINDOW FILM



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

GENERAL DOOR / WINDOW NOTES

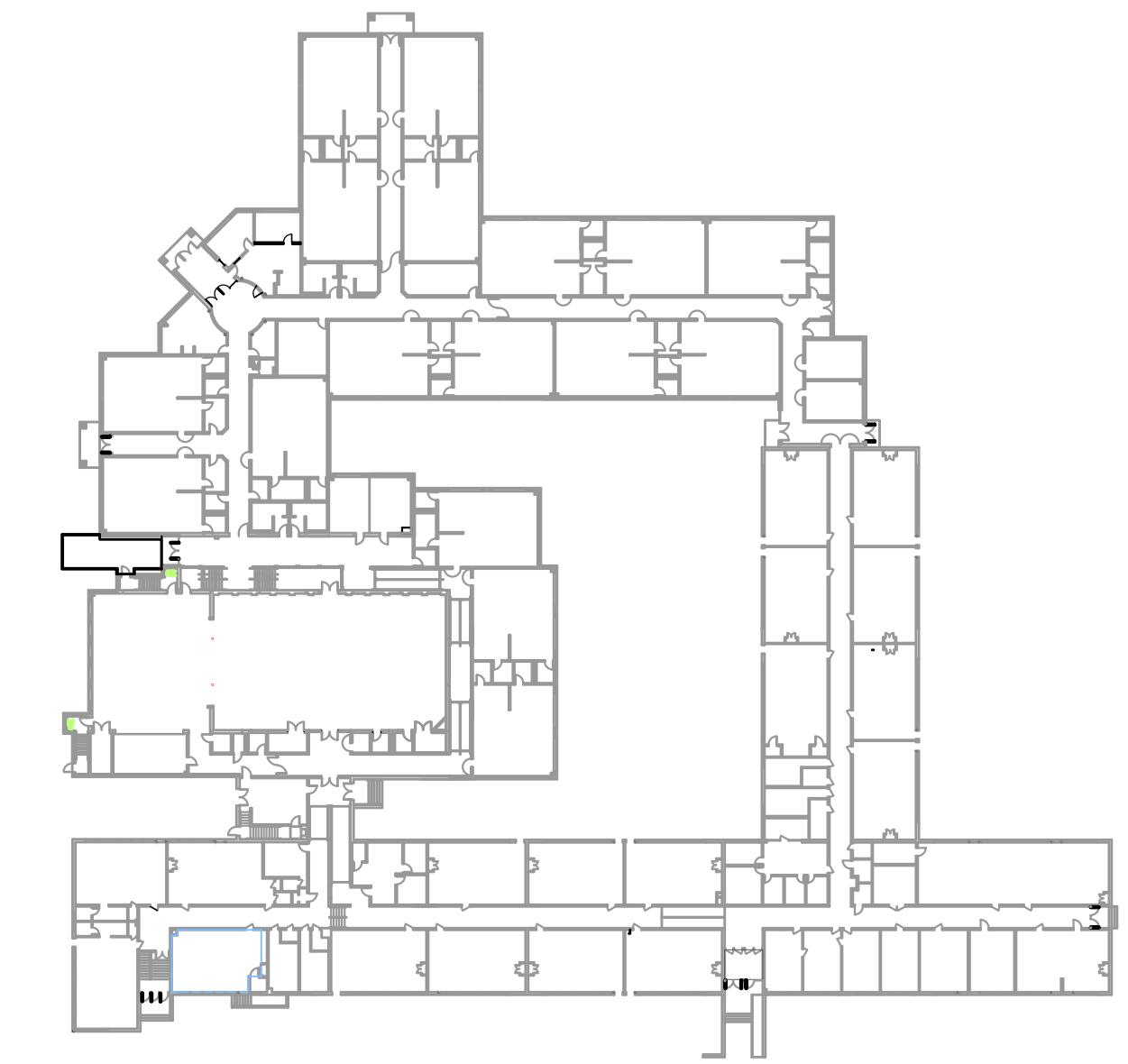
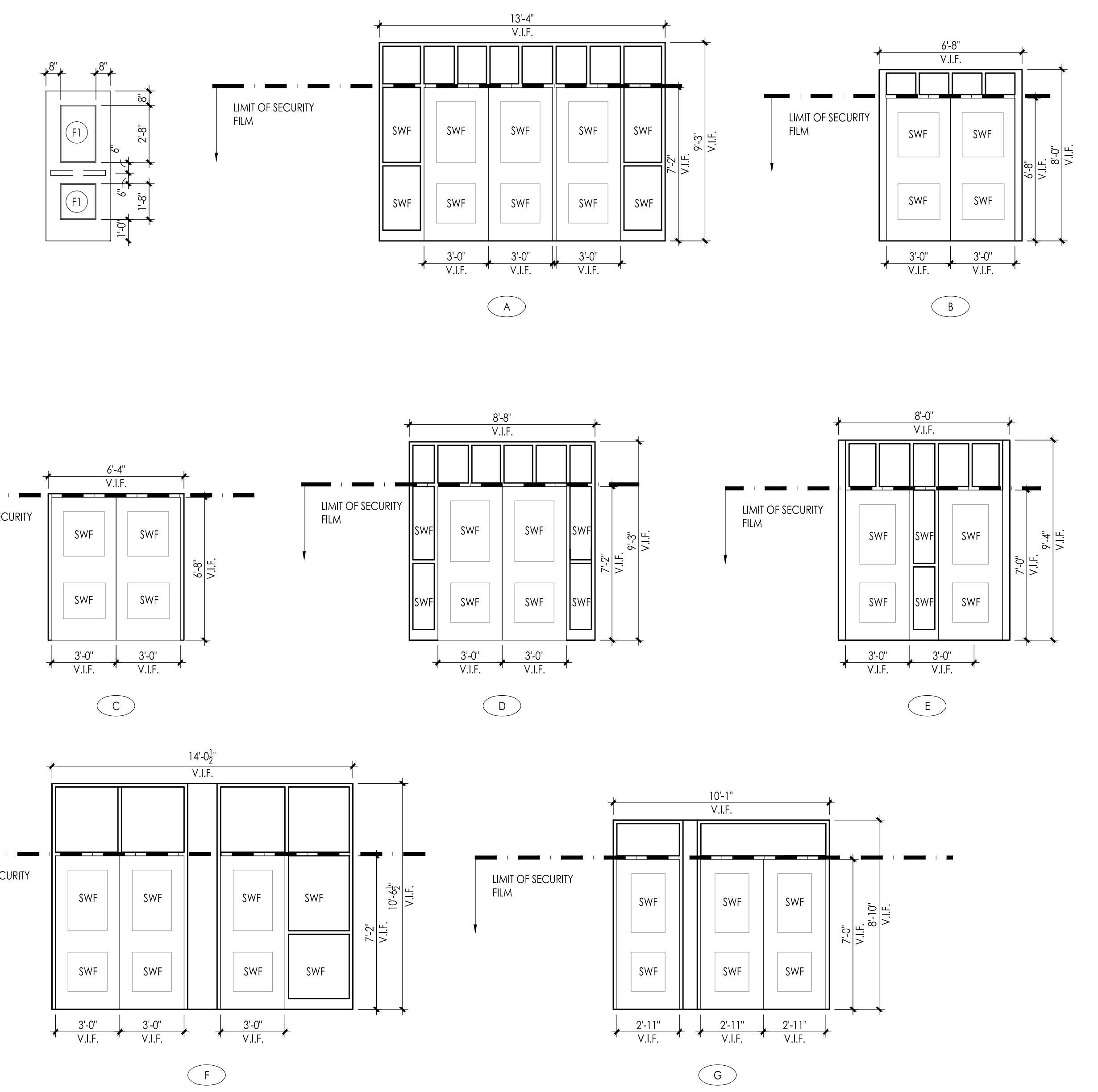
- SEE DOOR AND FRAME ELEVATION TYPES ON THIS DRAWING.
- ALL DOORS ARE ##### THICK UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE APPROXIMATE AND SHOULD BE VERIFIED IN FIELD.

DOOR / WINDOW SCHEDULE NOTES

- SECURITY FILM TO BE APPLIED TO LIMIT LINE SEE FRAME TYPE.
- ALL AREAS OF GLAZING TO RECEIVE SECURITY FILM AREA TO BE VERIFIED IN FIELD.

DOOR / WINDOW ABBREVIATIONS

AL - ALUMINUM
BR - BALLISTIC RATED
BFG - BALLISTIC RATED GLAZING
ETR - EXISTING TO REMAIN
ETR-F - EXISTING TO REMAIN / W/ APPLIED SECURITY FILM
ETR-MF - EXISTING TO REMAIN / VERIFY IN FIELD
FRP - FIRE-RESISTANT REINFORCED POLYESTER
HM - HOLLOW METAL
SHM - SECURITY HOLLOW METAL
PNT - PAINT
TPG-F - TEMPERED PLATE GLASS W/ SECURITY WINDOW FILM
n/a - NOT APPLICABLE



KEY PLAN
1/64" = 1'-0"

FVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clear - Pennsylvania 19403

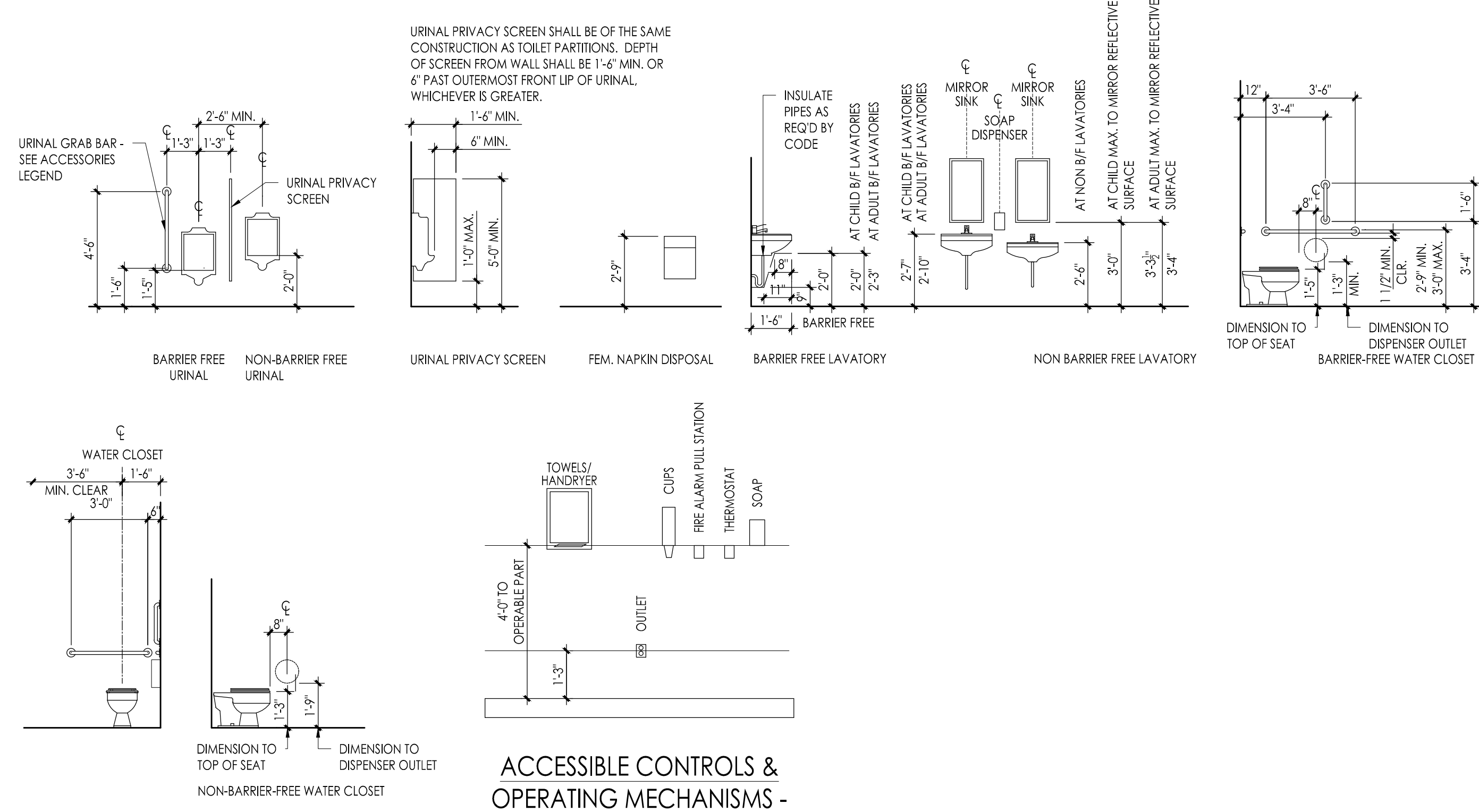
Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: KM
Scale: AS NOTED

Drawing Name: SECURITY GLAZING DOOR SCHEDULE

Revisions:
No. Date Description

Drawing Number: A102



ROOM FINISH SCHEDULE

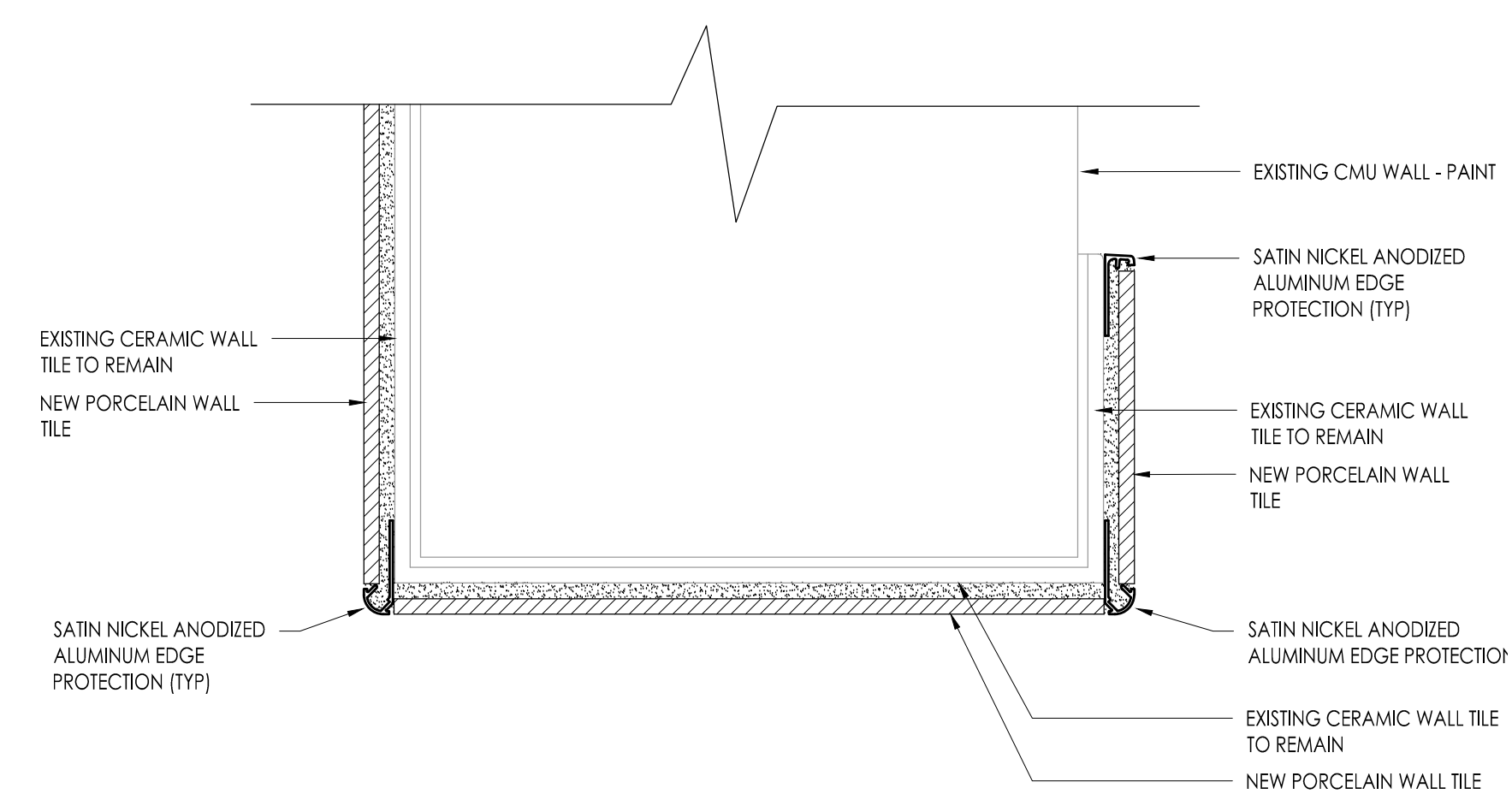
NUMBER	ROOM NAME	FLOOR	BASE		WAINSCOT		WALL FINISH	CEILING		NOTES
			MAT.	HT.	MAT.	HT.		MAT.	HT.	
B107	GIRL'S TOILET	PT	PT	--	--	--	PT	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B107A	VESTIBULE	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B108	BOY'S TOILET	PT	PT	--	--	--	PT	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B108A	VESTIBULE	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B129	BOYS LOCKER RM	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B130	BOYS TOILET	PT	PT	--	--	--	PT	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B130A	VESTIBULE	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B131	GIRLS TOILET	PT	PT	--	--	--	PT	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B131A	VESTIBULE	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B170	GIRL'S LOCKER ROOM	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B204	BOY'S TOILET	PT	PT	--	--	--	PT	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B204A	VESTIBULE	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B205	GIRL'S TOILET	PT	PT	--	--	--	PT	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
B205A	VESTIBULE	PT	PT	--	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1
E109	GYMNASIUM	SYN	RUB	4"	--	--	CEP	ETR-P	ETR	SEE ROOM FINISH SCHEDULE NOTE 1

ROOM FINISH SCHEDULE NOTES

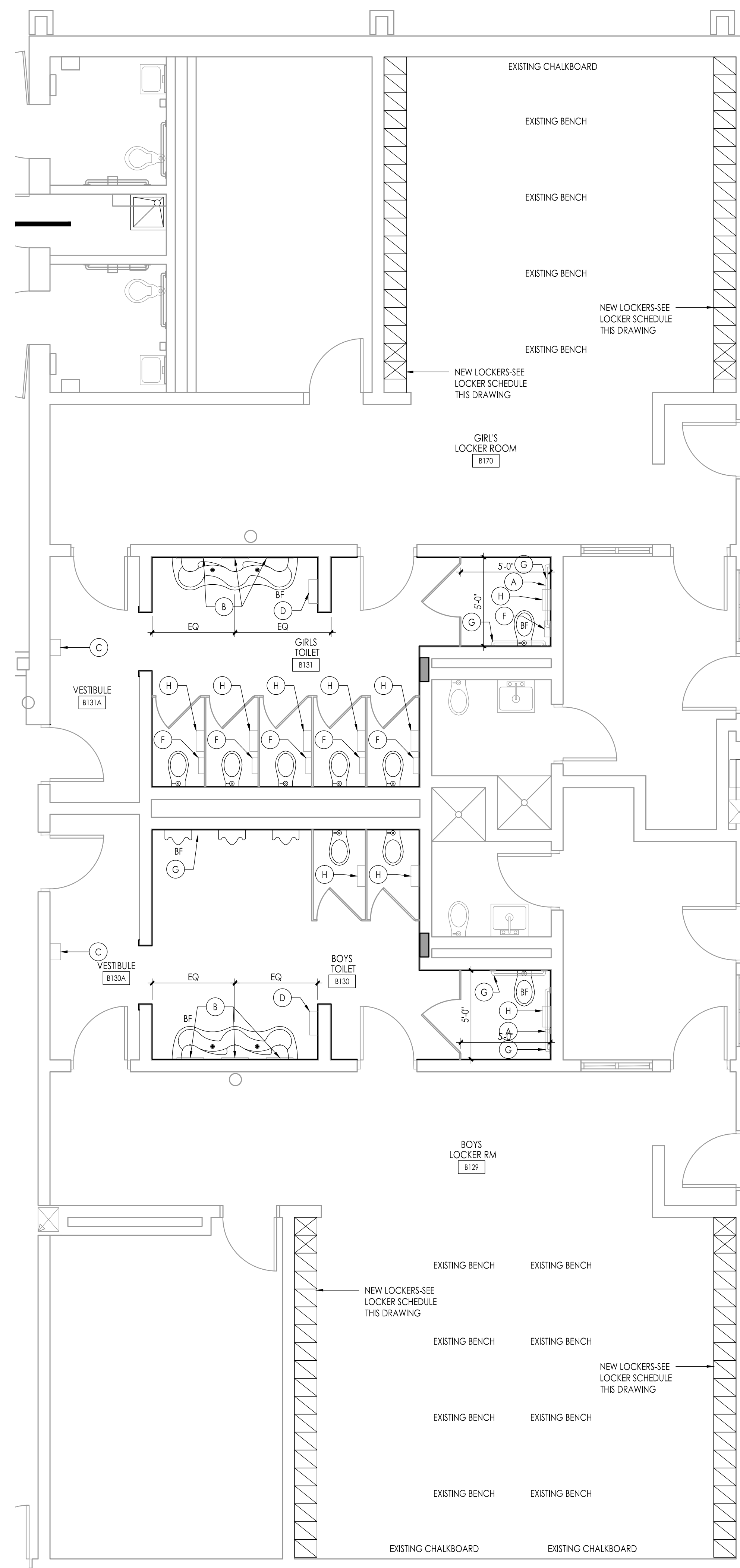
- REFER TO DEMOLITION/CONSTRUCTION NOTES ON A101 FOR ADDITIONAL INFORMATION.

ROOM FINISH SCHEDULE ABBREVIATIONS

- CEP - EXISTING CMU EPOXY PAINT
 ETR - EXISTING TO REMAIN
 ETR-P - EXISTING GYPSUM BOARD TO REMAIN - PAINT
 PT - PORCELAIN TILE
 RUB - RUBBER BASE
 SYN - SYNTHETIC SPORTS FLOORING



1 TYPICAL JAMB DETAIL
Scale: 6" = 1'-0"



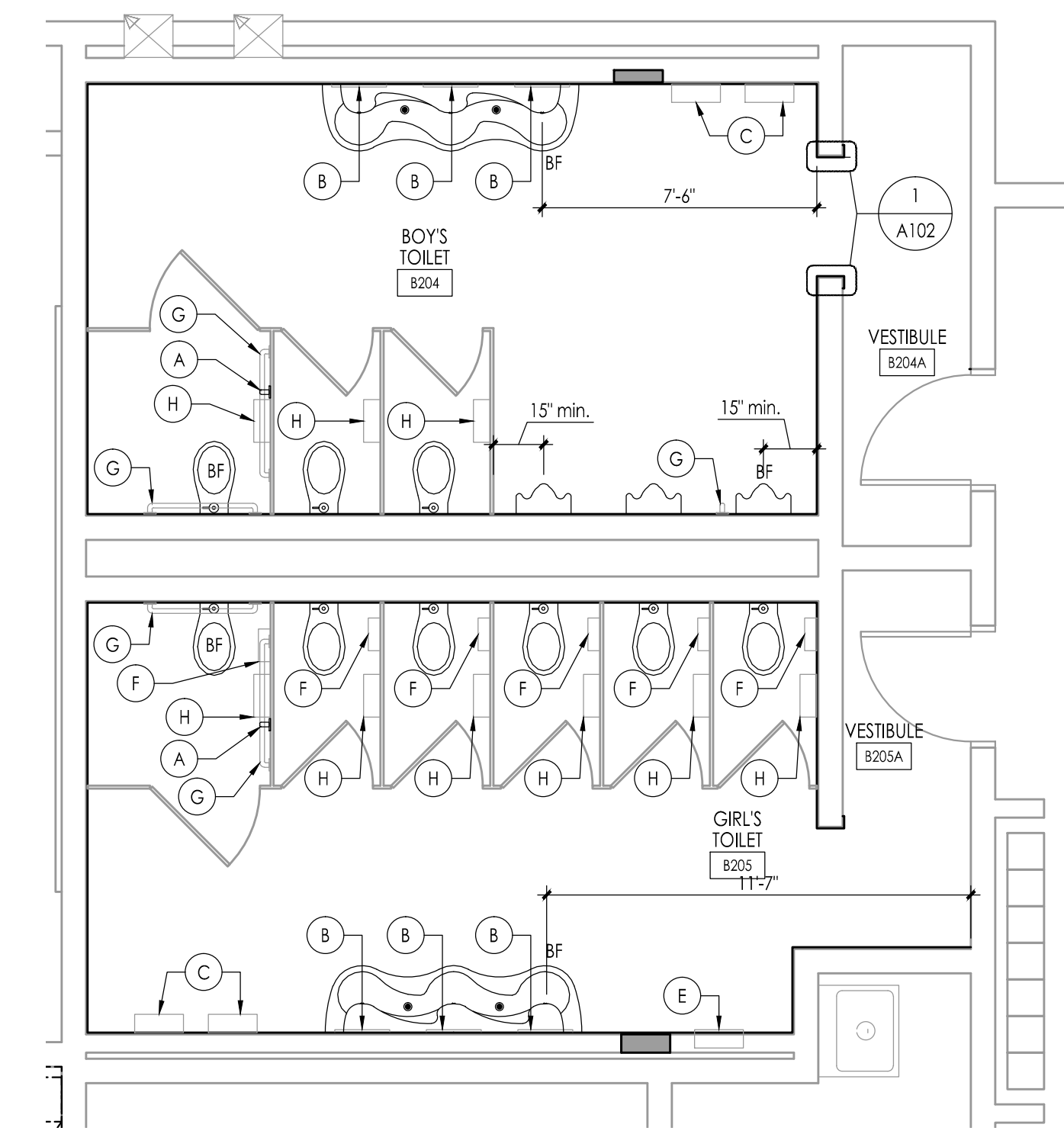
NEW WORK PLAN - BOY'S TOILET B130, GIRL'S TOILET B131, LOCKER B129, LOCKER B130
Scale: 1/4" = 1'-0"

LOCKER SCHEDULE

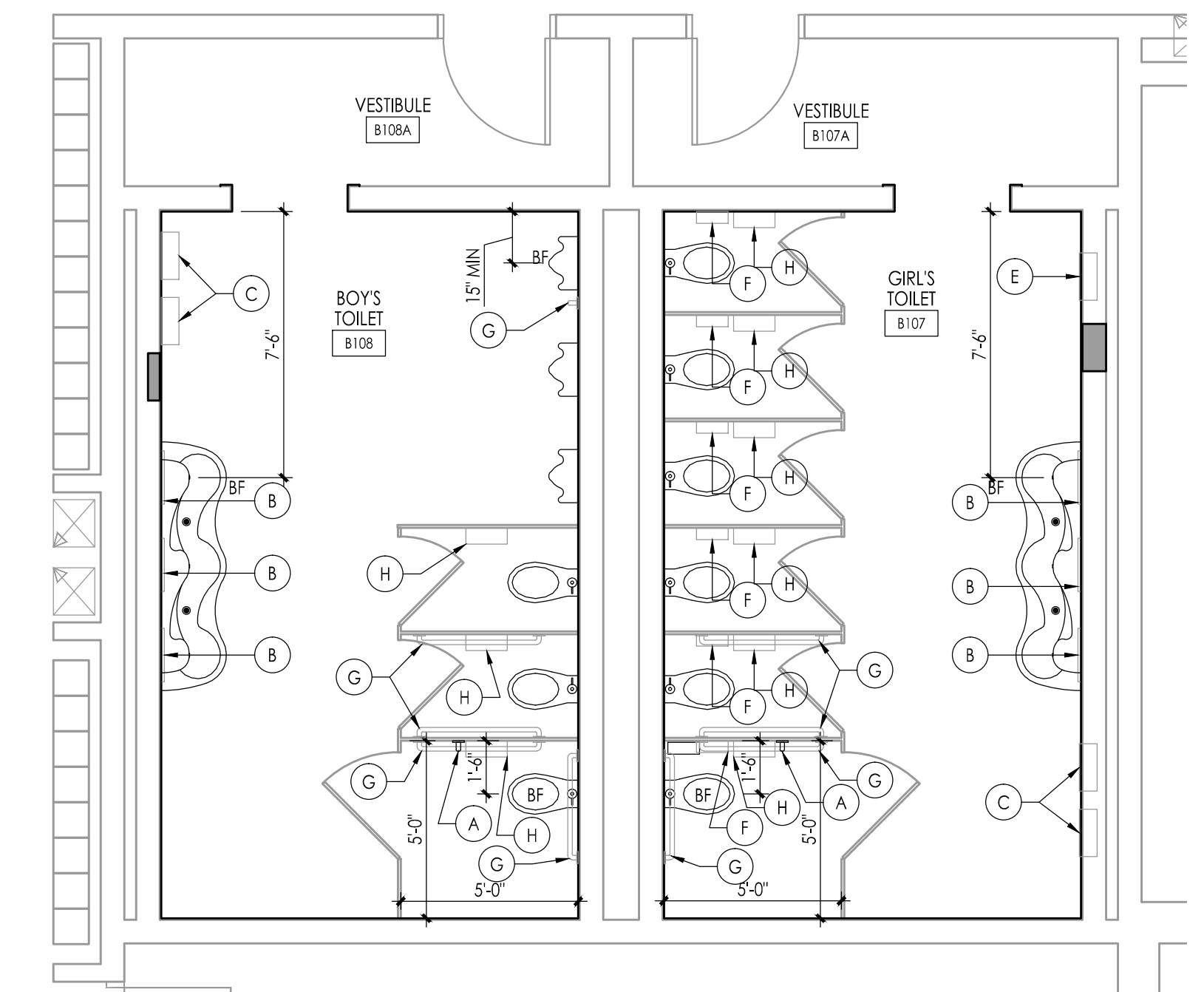
- ☐ LOCKER TYPE 'A'
12' W. x 15' D. x 30" H. (2 HIGH)
 ☒ LOCKER TYPE 'B' (BARRIER FREE)
12' W. x 15' D. x 30" H. (2-HIGH)

TOILET ROOM ACCESSORIES						
NO.	CAT. NO.	DESCRIPTION	SIZE			REMARKS
			W	H	D	
A	800-001-18'	GRAB BAR	18'	--	--	SAFETY-GRIP FINISH. MOUNT VERTICAL
B	--	MIRROR	--	--	--	RE-USE EXISTING
C	--	HAND DRYER	--	--	--	RE-USE EXISTING
D	--	PAPER TOWEL DISPENSER	--	--	--	RE-USE EXISTING
E	--	FEMININE NAPKIN DISPENSER	--	--	--	RE-USE EXISTING
F	--	FEMININE NAPKIN DISPOSAL	--	--	--	RE-USE EXISTING
G	--	GRAB BAR	--	--	--	RE-USE EXISTING
H	--	TOILET TISSUE DISPENSER	--	--	--	RE-USE EXISTING

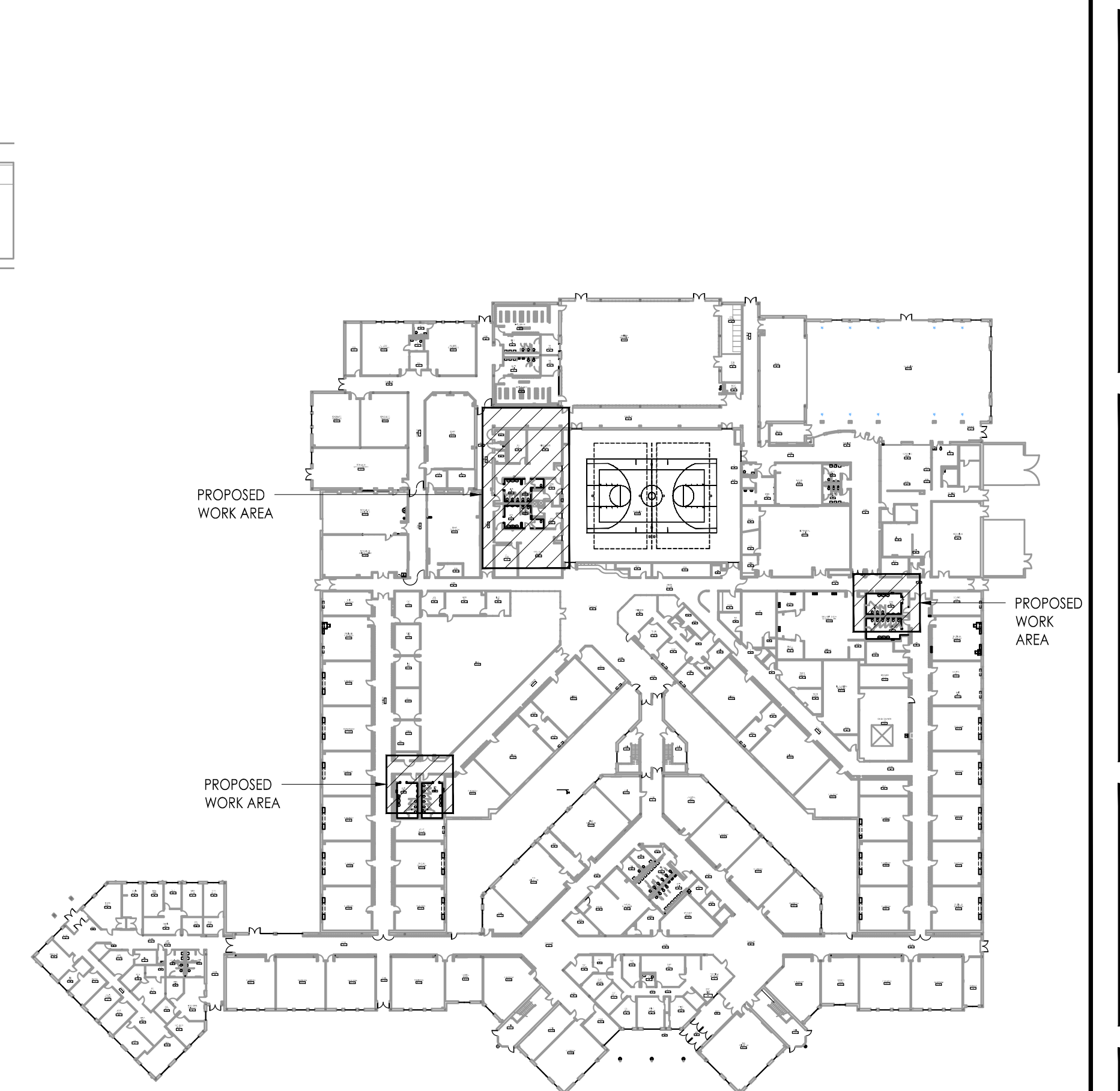
- NOTES:
 1. ALL CATALOG NUMBERS REFER TO BRADLEY WASHROOM ACCESSORIES UNLESS NOTED OTHERWISE.
 2. REFER TO FIXTURE MOUNTING HEIGHT CHART ON THIS DRAWING.



NEW WORK PLAN - BOY'S TOILET B204, GIRL'S TOILET B205
Scale: 1/4" = 1'-0"



NEW WORK PLAN - GIRL'S TOILET B107, BOY'S TOILET B108
Scale: 1/4" = 1'-0"



BUILDING KEY PLAN
Scale: NOT TO SCALE

JOHN J. VEIS, AIA, CSA
 WILLIAM D. HOPKINS III, AIA, LEED AP
 GEORGE K. DUTHIE, JR., AIA, PP

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P.C.
 1515 Lower Ferry Road - Trenton, New Jersey 08628
 Corporate: 609-971-1200
 Pennsylvania: 610-971-1200

Project Name
**ALTERATIONS AND
 RENOVATIONS TO
 WILLIAM DAVIES
 MIDDLE SCHOOL**

Project Owner Name
**HAMILTON
 TOWNSHIP BOARD
 OF EDUCATION**

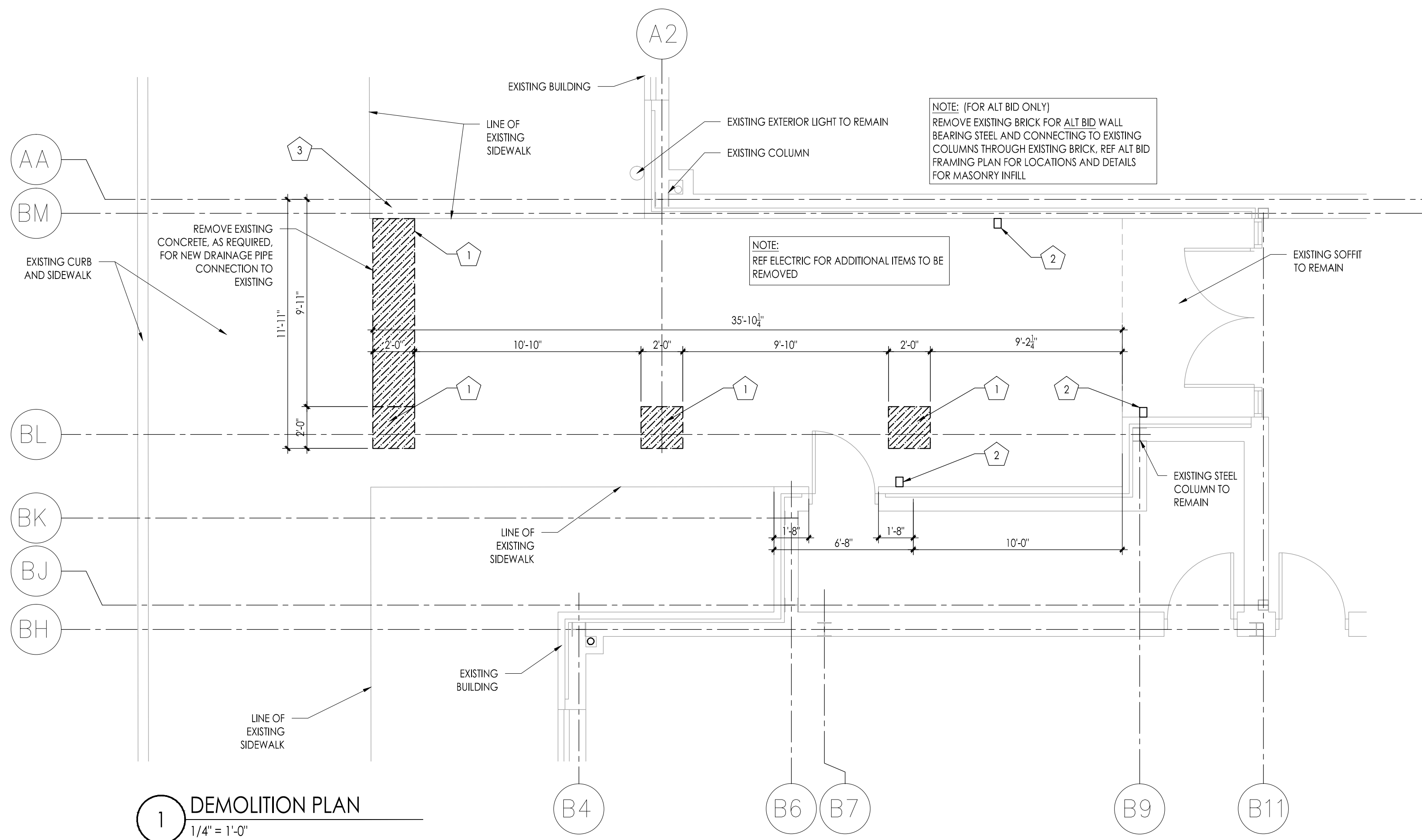
Project Location
**1876 DENNIS
 FORMAN DR
 MAYS LANDING,
 NJ 08330**

Project Number
4937C
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
JMK
 Scale
AS NOTED

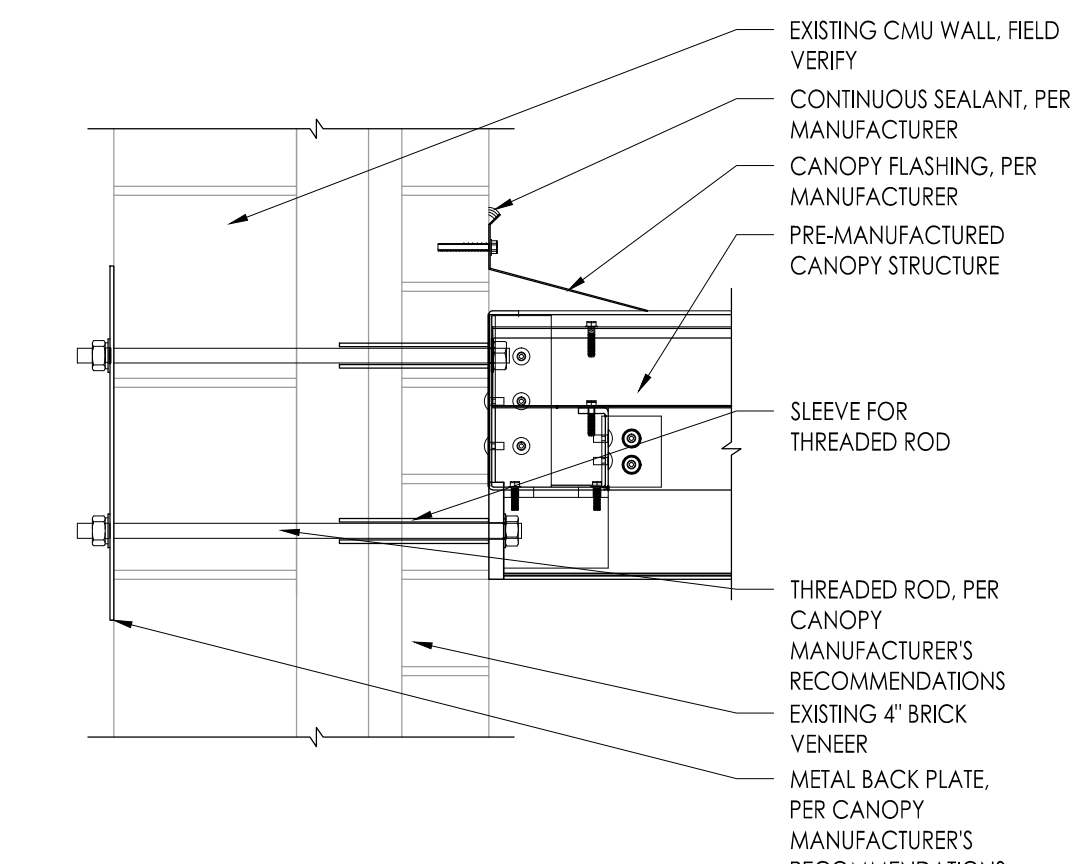
Drawing Name
**TOILET AND LOCKER
 ROOM NEW
 WORK PLANS**

Revisions
 No. Date Description

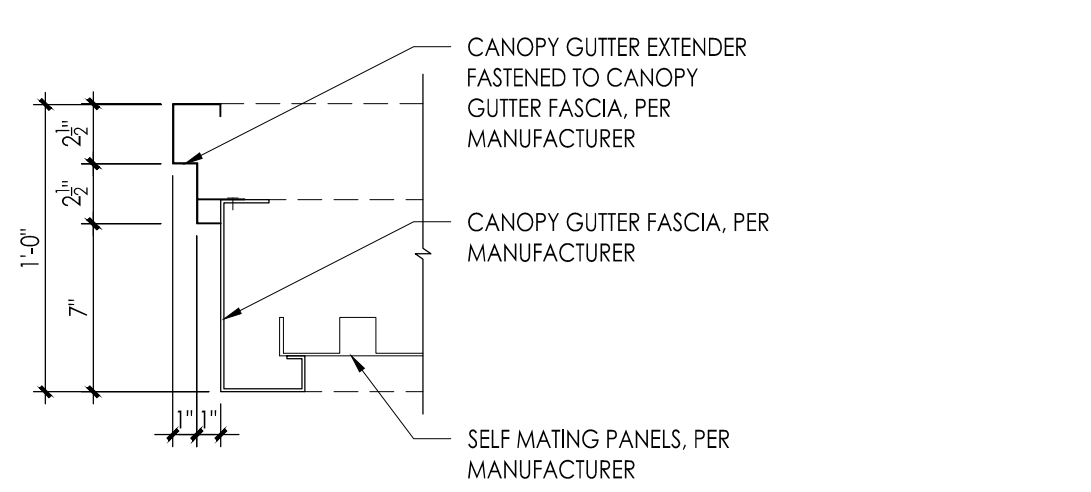
Drawing Number
A102



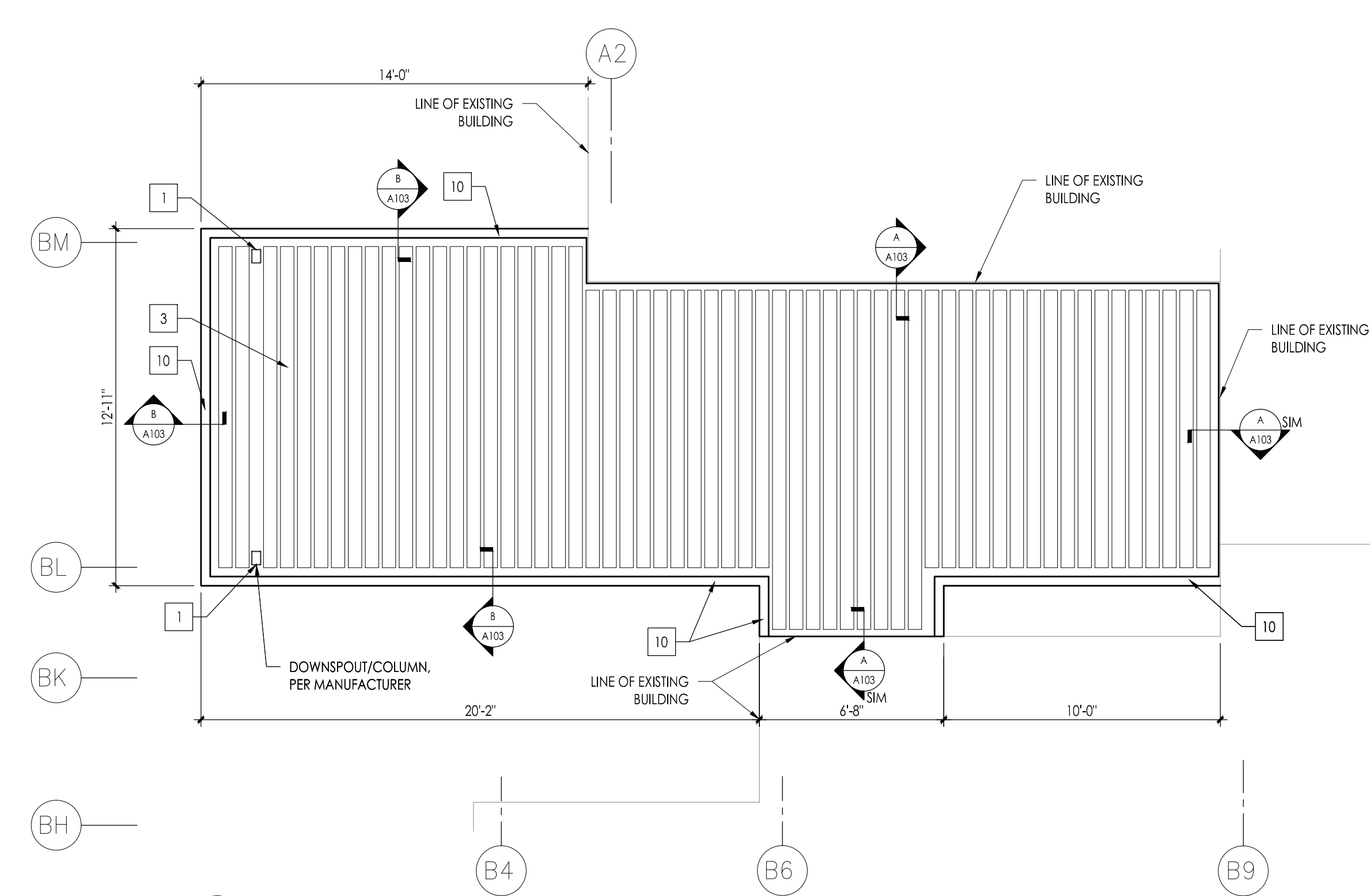
1 DEMOLITION PLAN
Scale: 1/4" = 1'-0"



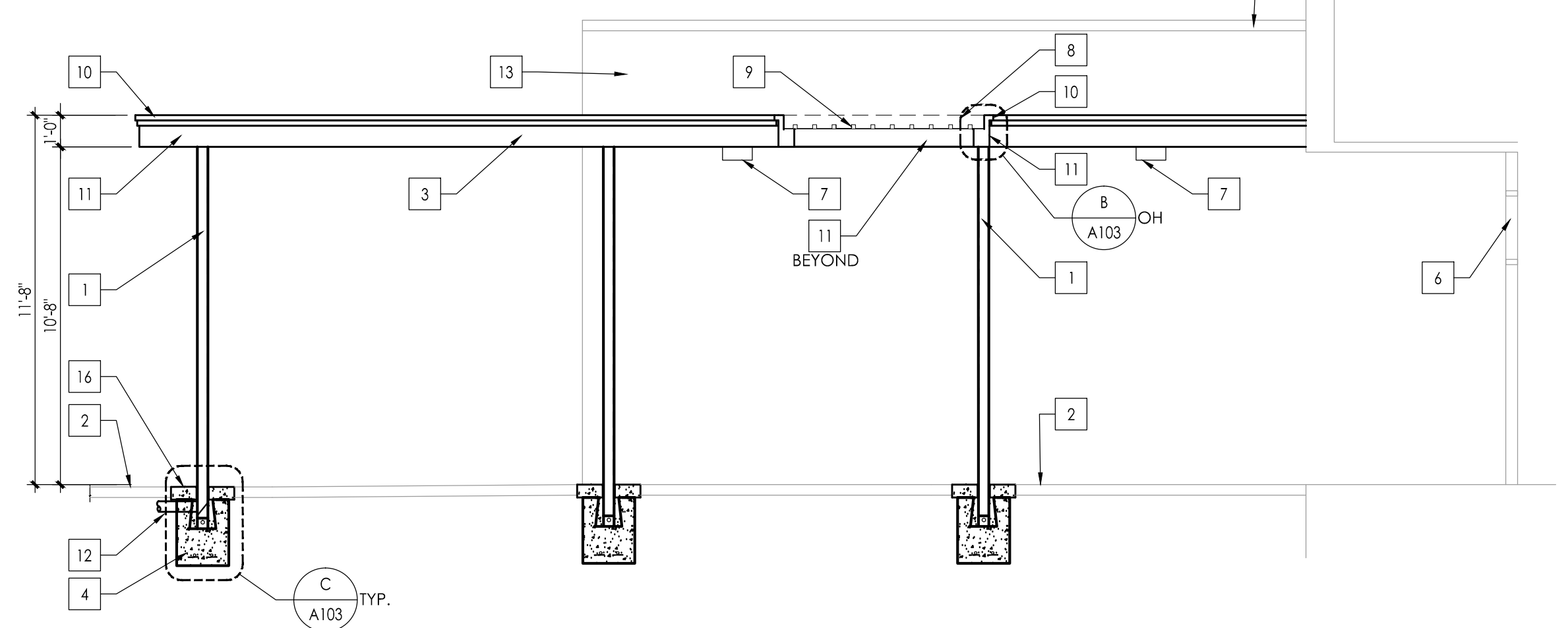
A CANOPY CONNECTION/FLASHING DETAIL
Scale: 1-1/2" = 1'-0"



B CANOPY EDGE DETAIL
Scale: 1-1/2" = 1'-0"



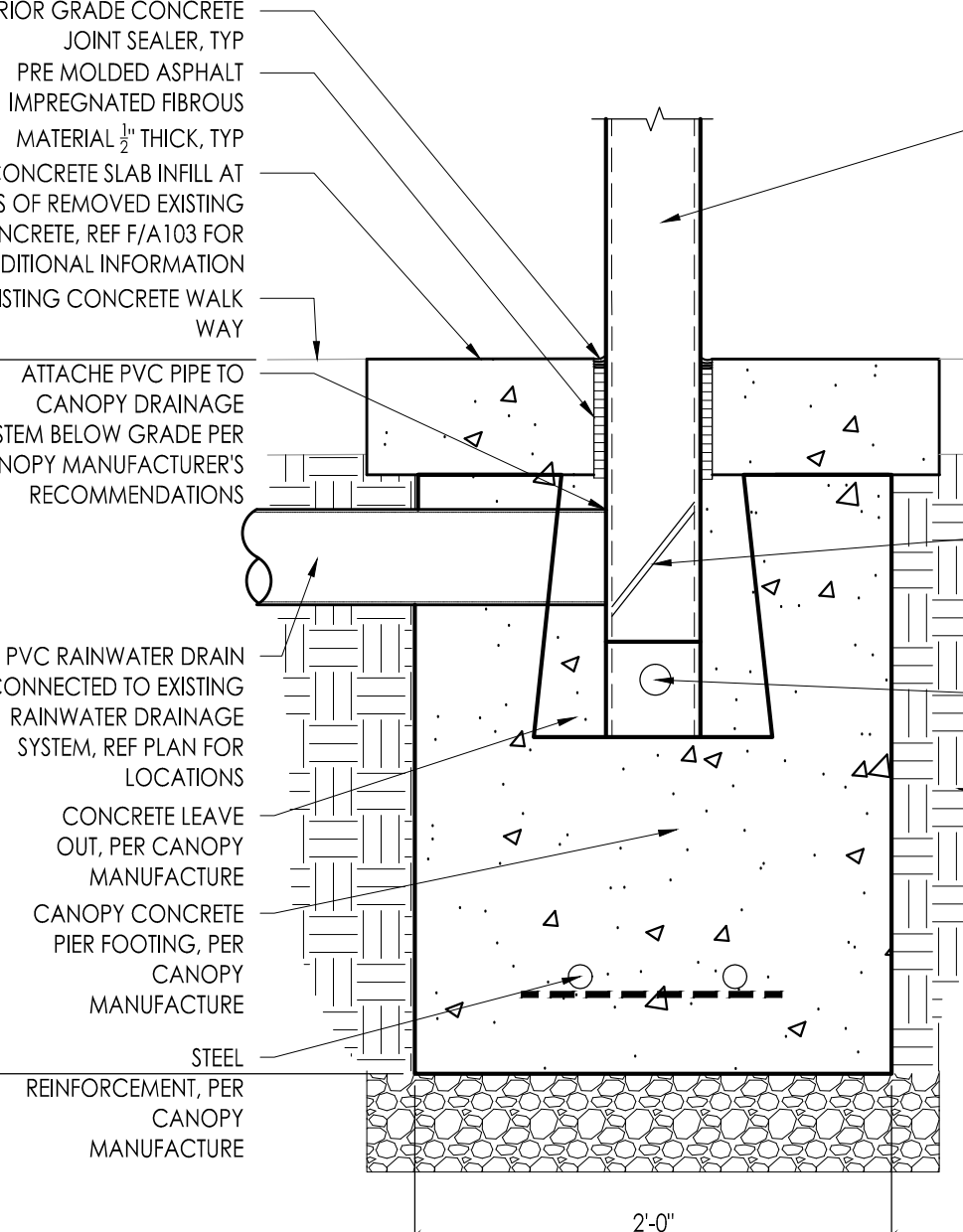
3 ROOF PLAN
Scale: 1/4" = 1'-0"



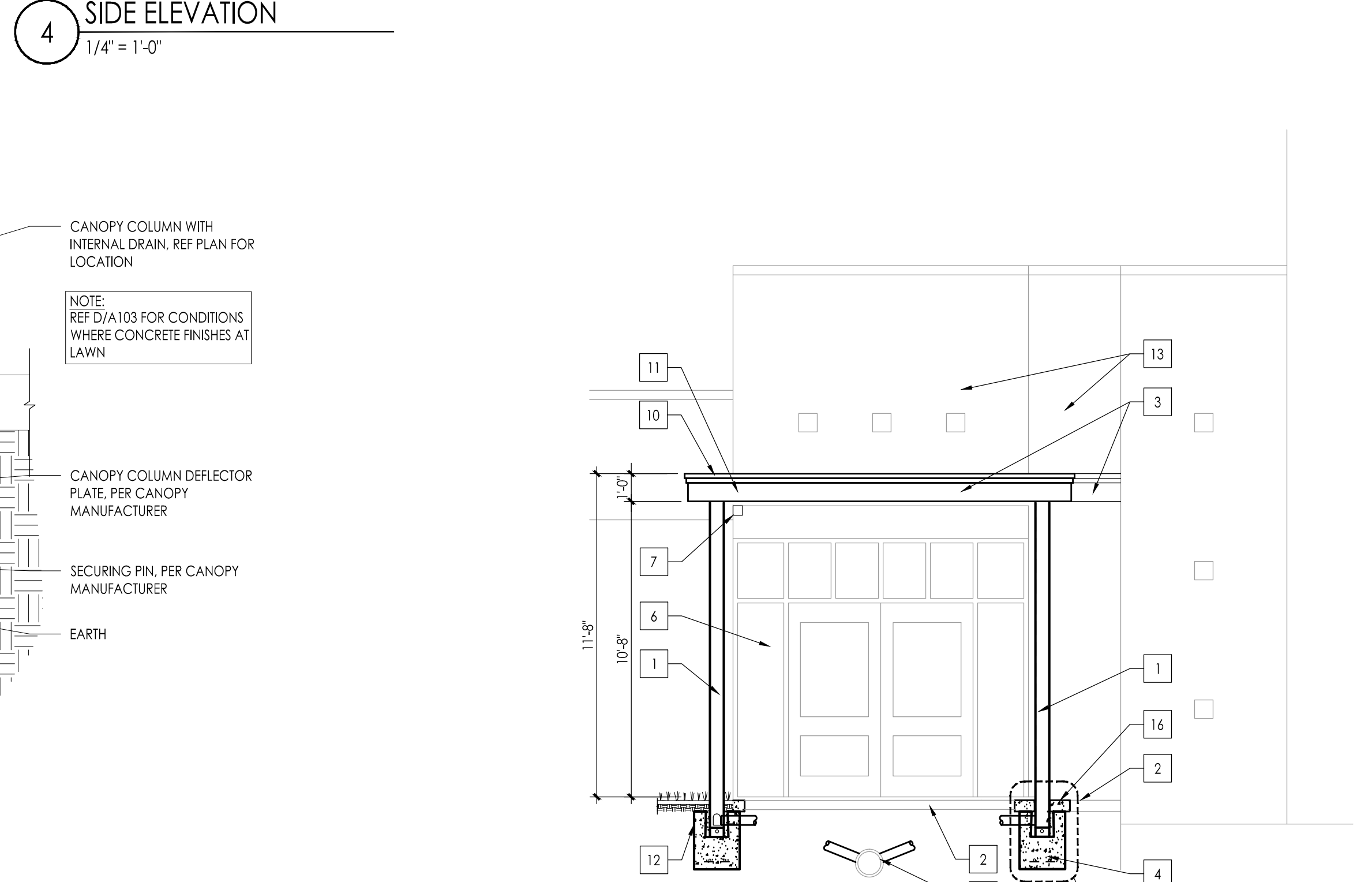
4 SIDE ELEVATION
Scale: 1/4" = 1'-0"

KEYNOTE LEGEND:

- CANOPY COLUMN WITH INTERNAL DOWNSPOUT, PER MANUFACTURER.
- EXISTING CONCRETE WALK TO REMAIN
- PRE-MANUFACTURED CANOPY SYSTEM, REF PLAN FOR PORTION OF EXISTING CONCRETE SIDEWALK, REF A102 FOR FULL EXTENT OF NEW CONSTRUCTION.
- CONCRETE CANOPY FOOTINGS WITH STEEL REINFORCEMENT, REF C/A103
- EXISTING CONCRETE DRAINAGE SYSTEM, CONNECT NEW 4" PVC WITH "KOR-AR-TEE" CONNECTION
- EXISTING STOREFRONT SYSTEM TO REMAIN
- NEW WALL MOUNTED LIGHT, REF ELECTRIC
- CANOPY FLASHING BEYOND, REF CANOPY ROOF PLAN
- SELF-MATING PANELS, PER CANOPY MANUFACTURER
- GUTTER EXTENDER, PER CANOPY MANUFACTURER, COLOR SELECTED BY ARCHITECT
- GUTTER FASCIA, PER CANOPY MANUFACTURER, COLOR SELECTED BY ARCHITECT
- 4" PVC DRAIN PIPE, COORDINATE WITH EXISTING CIVIL SUB-GRADE RAINWATER DRAINAGE SYSTEM
- EXISTING BUILDING, BRICK VENEER
- EXISTING RAINWATER CONDUCTOR, FIELD VERIFY
- EXISTING STEEL COLUMN, FIELD VERIFY
- CONCRETE SLAB INFILL, MATCH EXISTING FINISH OF ADJACENT CONCRETE, REF D/A103 FOR ADDITIONAL INFORMATION
- REF D/A103 FOR CONCRETE CONDITIONS AT EXISTING LAWN
- LINE OF EXISTING CONCRETE SIDEWALK



C CANOPY CONCRETE PIER DETAIL
Scale: 1-1/2" = 1'-0"



5 FRONT ELEVATION
Scale: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

- CONTRACTORS ARE ADVISED TO VISIT THE SITE AND VERIFY ALL AREAS AND CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. FAILURE TO SO NOTIFY THE ARCHITECT INDICATES THAT ANY ADDITIONAL COSTS ASSOCIATED WITH THE DISCREPANCIES AND/OR OMISSIONS ARE INCLUDED IN THE CONTRACTOR'S BID AND THAT NO CHANGE TO THE CONTRACT AMOUNT WILL BE MADE AFTER THE RECEIPT OF BIDS OR THE AWARD OF CONTRACTS.
- ALL ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. ALL EQUIPMENT, DEVICES, FIXTURES, ETC., SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE CONTRACTOR.
- UNLESS NOTED OTHERWISE ALL DEMOLITION MATERIAL SHALL BE REMOVED OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- NOT USED
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF THE EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE. REFER TO FLOOR PLAN DRAWINGS FOR FINISHING OF THESE AREAS.
- IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT SURFACES AND FINISHED TO PROVIDE A UNIFORM APPEARANCE WITH REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL.
- THE CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AND DIRT AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE.
- NO DEMOLITION SHALL BEGIN UNTIL PROPER PROTECTION IS IN PLACE AND APPROVED BY ARCHITECT & OWNER TO ENSURE THE SAFETY OF THE PUBLIC, THE BUILDING OCCUPANTS, CONSTRUCTION WORKERS AND TO CONTAIN DUST AND DIRT WITHIN THE AREA OF DEMOLITION.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REGARDING THE REMOVAL AND DISPOSAL OF ALL MATERIALS & EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE PROTECTION AGAINST INCREMENT WEATHER FOR THE EXISTING BUILDING DURING THE INTERIM PERIOD BETWEEN DEMOLITION AND THE COMPLETION OF NEW CONSTRUCTION.
- CONTRACTORS SHALL TAKE INTO ACCOUNT THEIR METHODS OF CONSTRUCTION FOR THE NEW WORK AND INCLUDE IN THEIR BID THE COST OF ADDITIONAL DEMOLITION WORK NECESSARY TO FACILITATE THE CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO: THE AREA AROUND JOINTS BETWEEN NEW AND EXISTING CONSTRUCTION IN WALLS, FLOORS AND CEILINGS, AREAS OF SIDEWALKS, LAWN, ETC.. MUCH OF THIS WORK IS INDICATED IN SECTIONS AND DETAILS RELATING TO THE NEW CONSTRUCTION.
- THE DEMOLITION WORK SHOWN ON THIS PLAN IS INTENDED TO BE A GENERAL OVERVIEW OF MAJOR DEMOLITION WORK REQUIRED. IT IS NOT A COMPLETE AND EXCLUSIVE REPRESENTATION OF ALL DEMOLITION WORK NEEDED FOR EXECUTION OF THE PROJECT. WHEN PREPARING THEIR BIDS, CONTRACTORS MUST REFER TO THE FULL SET OF CONSTRUCTION DOCUMENTS FOR VARIOUS MISCELLANEOUS ITEMS WHICH MUST BE REMOVED AND/OR RELOCATED AS PART OF THE WORK.
- ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING - SEE SPECIFICATION.

DEMOLITION KEYNOTE LEGEND:

- REMOVE (SAW CUT WITH STRAIGHT LINES, TYP.) PORTION OF EXISTING CONCRETE SIDEWALK, REF A102 FOR FULL EXTENT OF NEW CONSTRUCTION.
- REMOVE EXISTING LIGHT FIXTURE, ALL EXISTING WIRING AND CONDUIT NO LONGER REQUIRED SHALL BE REMOVED BACK TO NEAREST BOX. REUSE ALL EXISTING CONCEALED CONDUIT AND RECESSED DEVICE BOXES WHERE POSSIBLE.
- REMOVE PORTION OF EXISTING LAWN, AS REQUIRED TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE.

REINFORCING

- ALL REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST ACI CODE AND DETAILING MANUAL.
- ALL BARS SHALL BE ASTM A-615 GRADE 60.
- WELDED WIRE FABRIC SHALL BE ASTM A-185.
- CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES, UNLESS SHOWN OTHERWISE, SHALL BE:
 - A) UNIFORM SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER.
 - B) BOTTOM SURFACE OF SLAB ON GRADE: 3"
 - C) FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER: #5 BARS OR SMALLER: 1"
 - D) EXTERIOR WALL SURFACES: 2"
 - E) ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY ARCHITECT BEFORE CONCRETE IS POURED.
 - F) ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE SYSTEM AS REQUIRED BY NEC SECTION 250-52c. COORDINATE LOCATION AND SCHEDULE WITH GENERAL CONTRACTOR.

CONCRETE PIER NOTES:

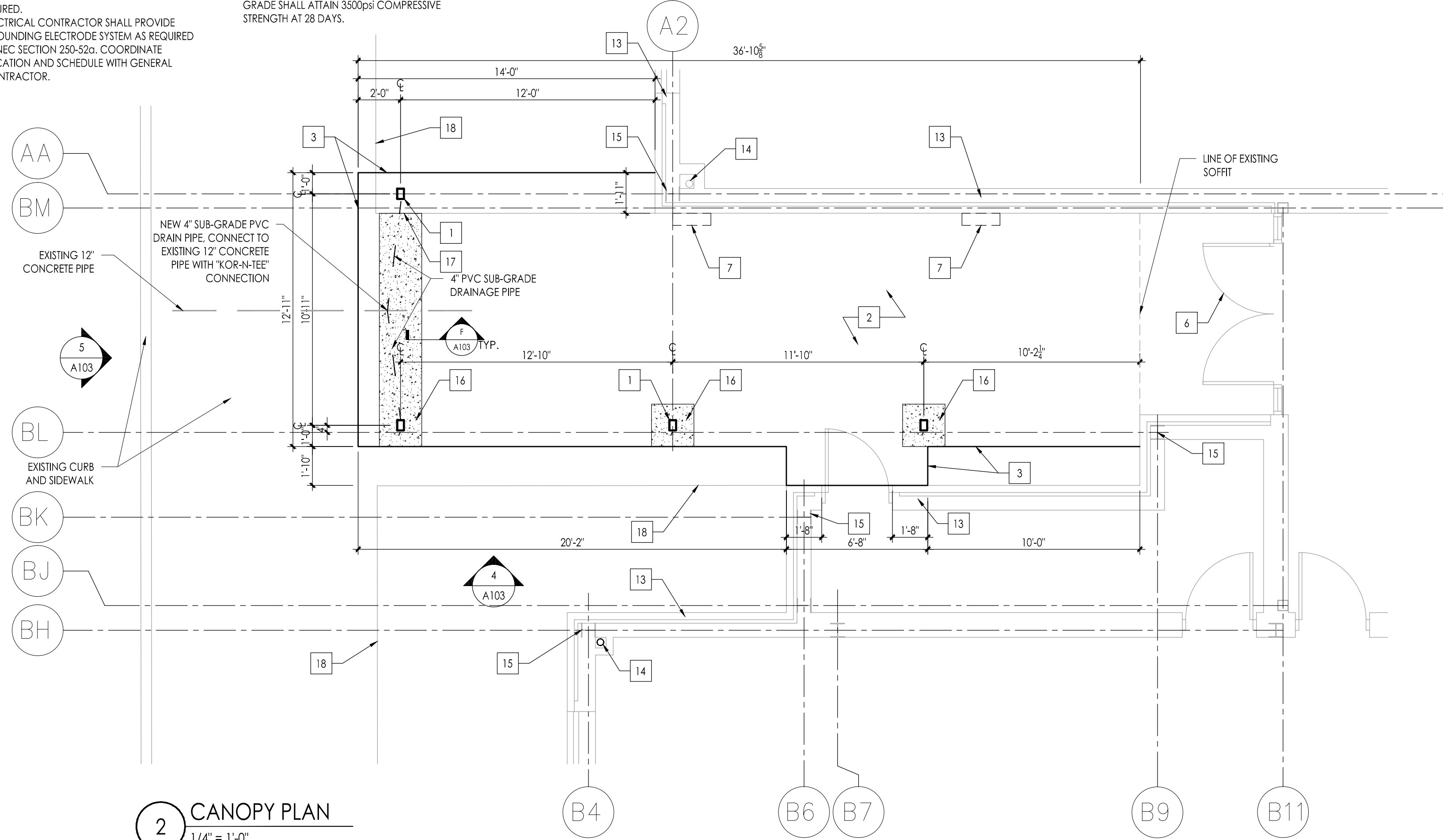
- ALL FOOTINGS SHALL BEAR ON SOIL HAVING A MINIMUM SAFE BEARING CAPACITY OF 2.5 TONS PER SQUARE FOOT.
- DETAILS GIVEN CORRESPOND TO THE COMPUTED BOTTOM OF FOOTINGS AND ARE MINIMUM DEPTHS WHICH ARE NOT CONTROLLED AS LIMITED IN ANY WAY THE DEPTH REQUIRED TO REACH GOOD BEARING.
- NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- NO FILL OR BACK FILL SHALL BE PLACED OVER OR AGAINST AT SUCH TIME, OR IN A MANNER, WHICH WOULD ENDANGER THE STABILITY OR OTHERWISE DAMAGE SUCH WORK.
- ALL CONCRETE, EXCEPT SLABS ON GRADE, SHALL ATTAIN 3000psi COMPRESSIVE STRENGTH AT 28 DAYS. ALL CONCRETE FOR SLABS ON GRADE SHALL ATTAIN 3500psi COMPRESSIVE STRENGTH AT 28 DAYS.

MISCELLANEOUS

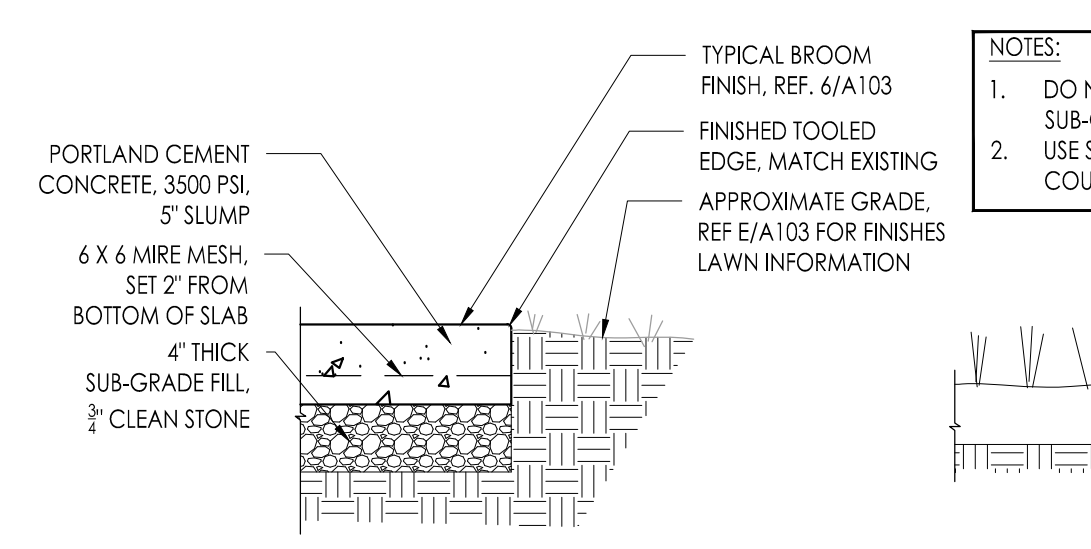
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SECTIONS AND ELEVATIONS ON JOB.
- CONSULT ALL OTHER DISCIPLINES DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF INSERTS, OPENINGS, SLEEVES, WASHES REVEALS, EQUIPMENT PADS AND OTHER PRODUCT REQUIREMENTS.

CONCRETE SLAB NOTES:

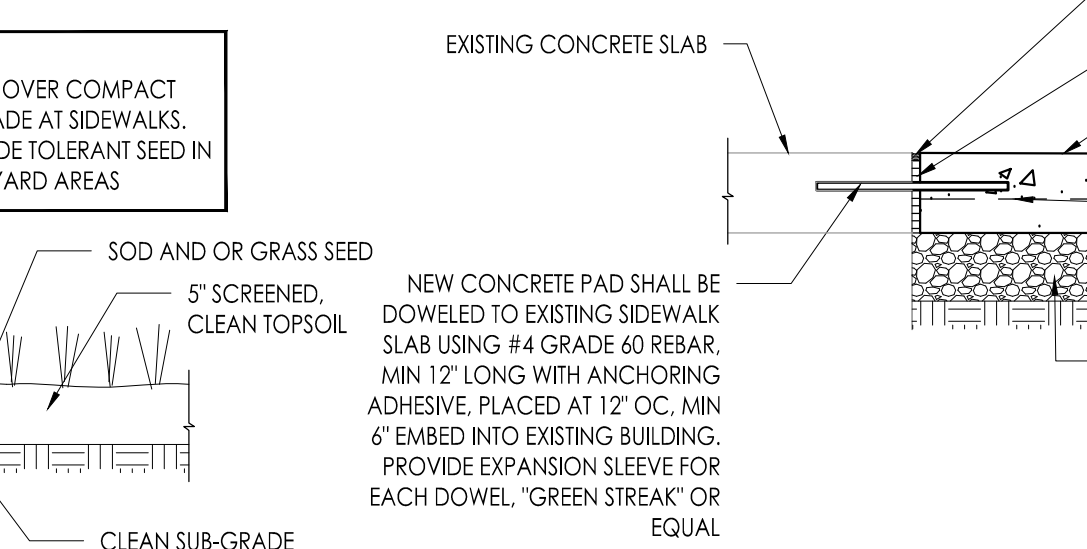
- PORTLAND CEMENT CONCRETE TO BE 3500 PSI, 5' SLUMP (TESTING BY CONTRACTOR)
- PROVIDE PREFORMED BITUMINOUS FIBER EXPANSION JOINTS 1/2" THICK WHERE NEW CONCRETE PAD MEETS STEEL COLUMNS.
- SAW CUTS SHALL BE CLEAN, UN-CHIPPED, AND STRAIGHT.
- PROVIDE A SIP RESISTANT BROOM-GROOVE FINISH, TYPICAL.
- ALL CONCRETE WILL BE POURED ON CLEAN, COMPACTED SUB-GRADE, PER DETAILS.
- ALL JOINT SEALANT SHALL BE INSTALLED IN A PROFESSIONAL AND WORKMAN LIKE MANNER, TRUE TO LINE AND NOT WAYER NOTICEABLY OUTSIDE OF JOINTS.
- REF DETAILS AND CANOPY SHOP DRAWINGS FOR STEEL RE-BAR SIZES AND LOCATIONS IN THICKENED CONCRETE SLABS.
- ALL CONCRETE PADS WILL BE REINFORCED WITH 6X6 1.4/1.4 (10 GA) WIRE MESH, TYP.
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE ACI BUILDING CODE.



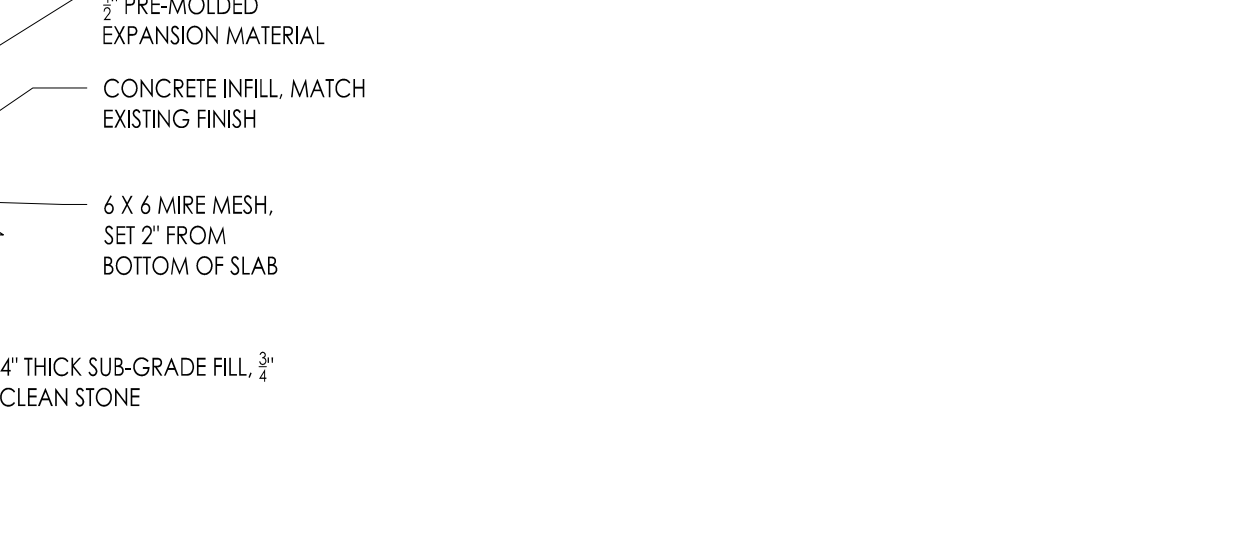
2 CANOPY PLAN
Scale: 1/4" = 1'-0"



D CONCRETE EDGE DETAIL
Scale: 1" = 1'-0"



E LAWN DETAIL
Scale: 1" = 1'-0"



F CONCRETE TIE-IN TO EXISTING
Scale: 1" = 1'-0"

FVHD architects planners
Fraytak Veisz Hopkins Dutrie P.C.
Company: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17435

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: BO
Scale: AS NOTED
Drawing Name: CANOPY PLANS SECTIONS AND DETAILS
Drawing Number: A103

JOHN J. VEISZ, AIA, CSRA
NO. 214886000 PA - 04/2018
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214886000 PA - 04/2018
GEORGE K. DUTRIE, JR., AIA, AP
NO. 214886000 PA - 04/2018

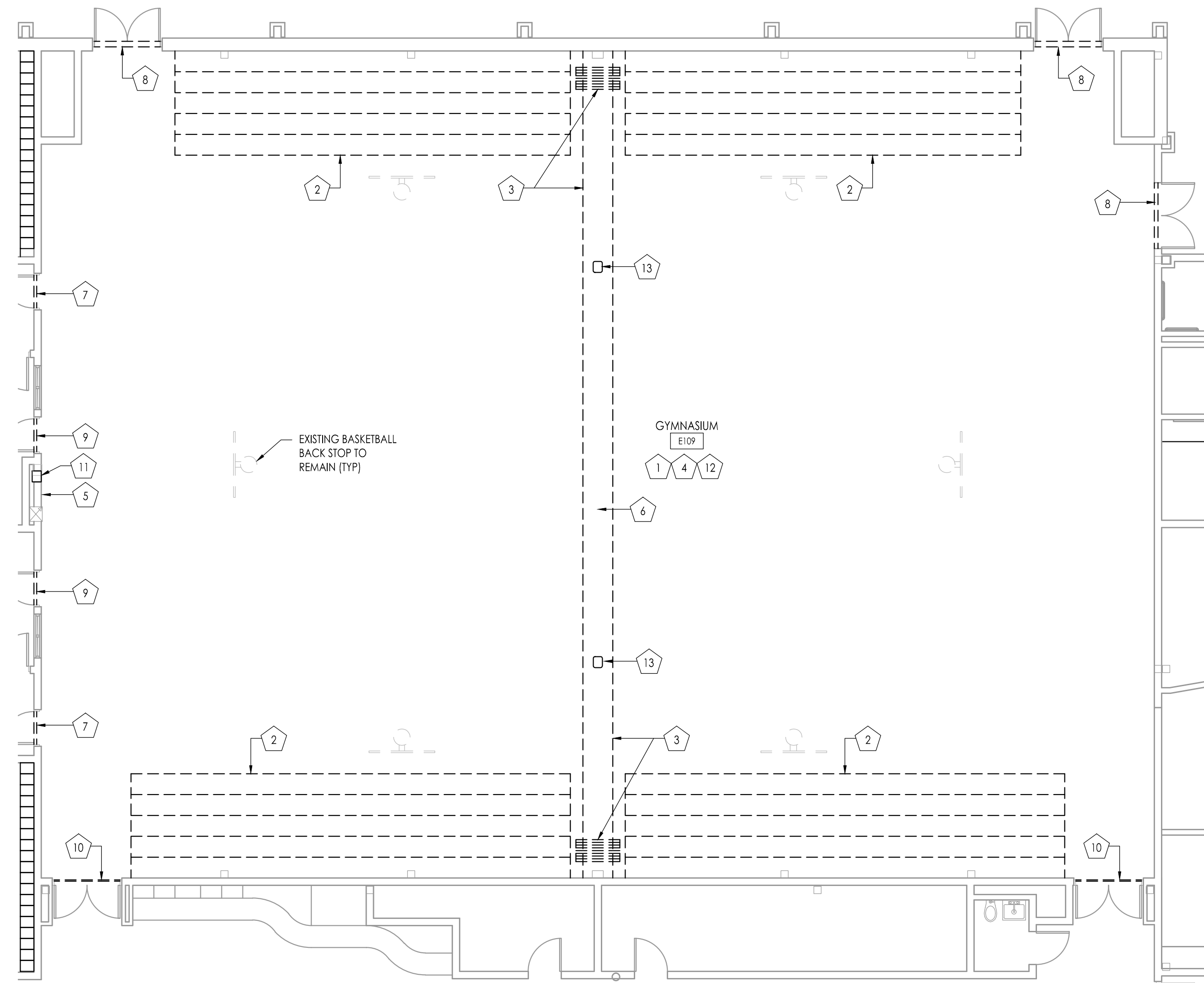
F V H D P C . C O M

NOTES:
UNLESS OTHERWISE SPECIFIED ON DRAWINGS PROVIDE & INSTALL LINTELS FOR ALL SQUARE HEAD MASONRY OPENINGS IN ALL MASONRY WALLS IN ACCORDANCE WITH THE FOLLOWING SCHEDULES & COMMENTS.

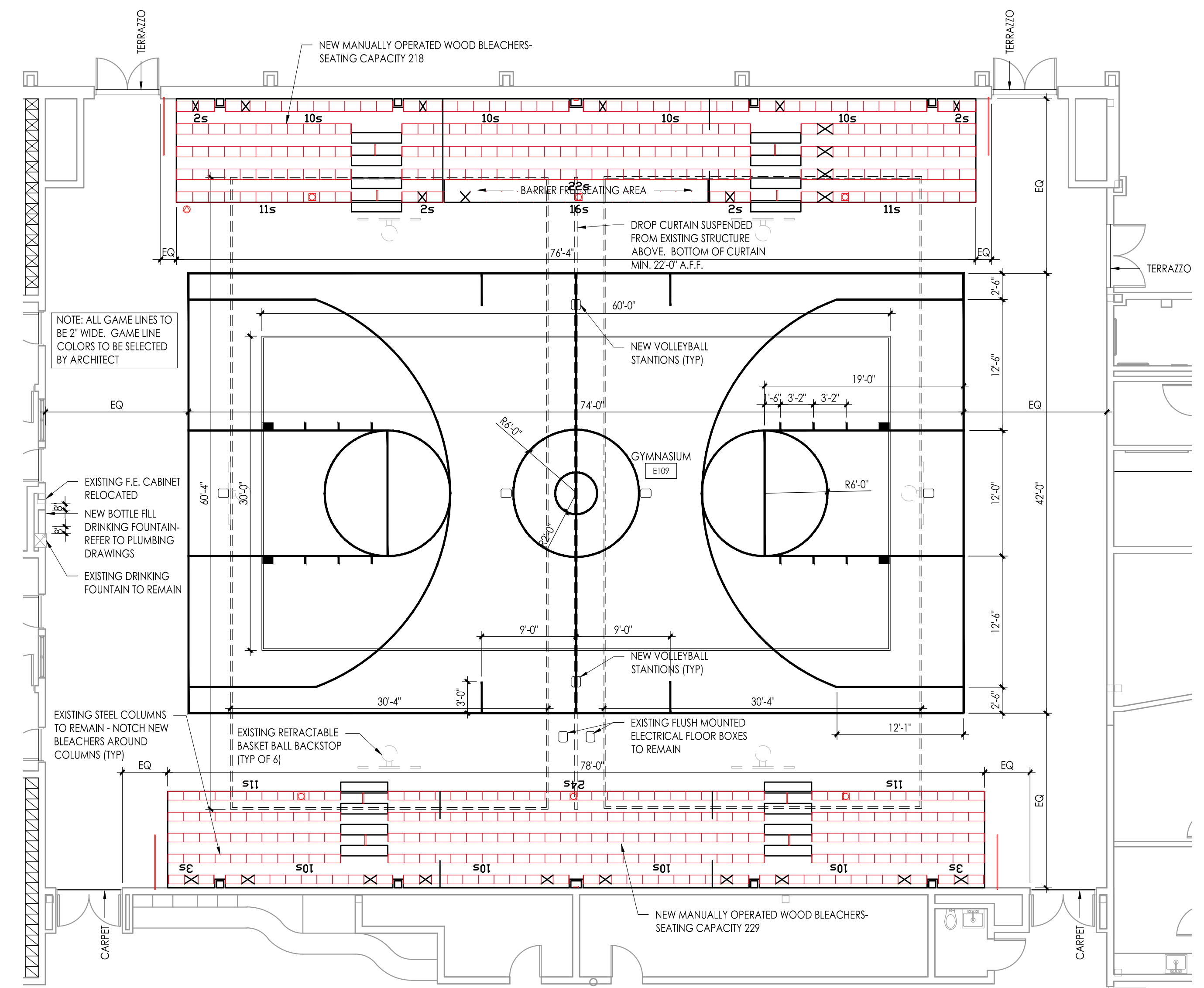
LOOSE LINTEL SCHEDULE (FOR 4", 8", 12", & 16" WALLS)		
MASONRY OPENING	LINTEL SIZE	REMARKS
UP TO 4'-0"	L - 3 1/2" x 3 1/2" x 1/4"	
4'-1" TO 6'-0"	L - 5" x 3 1/2" x 5/16"	
6'-1" TO 8'-0"	L - 6" x 3 1/2" x 5/16"	
OVER 8'-0"	W 8" x 18" x E	

LOOSE LINTEL SCHEDULE (FOR 6" WALLS)		
MASONRY OPENING	LINTEL SIZE	REMARKS
2'-0" TO 6'-0"	WT 7 x 11	
6'-1" TO 8'-0"	WT 8 x 13	

NOTES:
1. PROVIDE ONE (1) ANGLE FOR EACH 4" OF MASONRY WIDTH.
2. BEAR LINTELS 6" MINIMUM EACH SIDE OF OPENING.
3. ALL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
4. WHERE OPENINGS LOCATED NEXT TO COLUMNS OR BEAMS, ATTACH TO STRUCTURAL STEEL CONNECTION NOT TO PROTRUDE INTO OPENING.
5. CONSULT ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR OPENING SIZE & LOCATION.



DEMOLITION PLAN - GYMNASIUM E109
Scale: 1/8" = 1'-0"



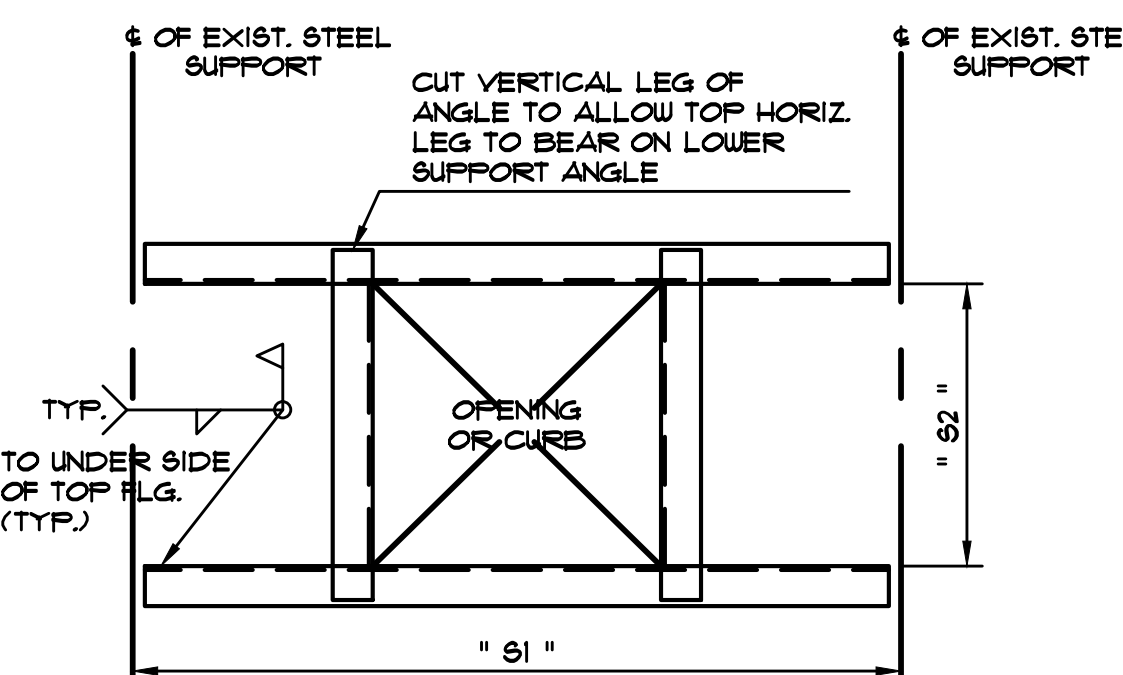
NEW WORK PLAN - GYMNASIUM E109
Scale: 1/8" = 1'-0"

DEMOLITION / NEW CONSTRUCTION NOTES (GYMNASIUM RENOVATIONS):

- EXISTING GYM FLOOR AND WALL BASE TO BE REMOVED BY OTHERS. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING EXISTING CONCRETE SLAB TO MANUFACTURERS REQUIREMENTS PER THE SPECIFIED NEW FLOOR FINISH.
 - EXISTING MANUALLY OPERATED WOOD BLEACHERS TO BE REMOVED IN THEIR ENTIRETY. PATCH ALL OPENINGS LEFT IN CMU WALL AFTER REMOVAL. INSTALL NEW MANUALLY OPERATED WOOD BLEACHERS. SEE NEW WORK PLAN FOR NEW BLEACHER LAYOUT.
 - EXISTING ELECTRICALLY OPERATED FOLDING PARTITION TO BE REMOVED IN ITS ENTIRETY INCLUDING ALL TRACKS AND SUPPORTING HANGERS. REMOVE EXISTING SOFFIT AND FACIA THAT SURROUNDS SUPPORT TRACK IN ITS ENTIRETY. STEEL SUPPORT STRUCTURE TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING RUBBER BASE IN ITS ENTIRETY. ALL WALLS IN GYMNASIUM TO BE PAINTED FULL HEIGHT BY GENERAL CONTRACTOR. PROVIDE PROTECTION FROM PAINT ON ALL WALL MOUNTED ITEMS PRIOR TO PAINTING. ALL STEEL JOISTS, BRIDGES, BEAMS AND UNDERLIES OF METAL DECKING TO BE PAINTED BY MECHANICAL CONTRACTOR. REFER TO PHOTOGRAPHS ON DRAWING A104 FOR ADDITIONAL SCOPE OF PAINTING. INSTALL NEW 4" HIGH RUBBER BASE ON ALL WALLS.
 - NEW IN-WALL WATER BOTTLE FILLING STATION. CUT OPENING IN EXISTING MASONRY TO THE APPROPRIATE WIDTH AND HEIGHT TO ACCOMMODATE FILLING STATION. INSTALL APPROPRIATE SIZE STEEL LINTEL OVER NEW OPENING. INSTALL AT REQUIRED ADA HEIGHT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 - INSTALL NEW ELECTRICALLY OPERATED DROP CURTAIN CENTERED IN GYMNASIUM. SUPPORT DROP CURTAIN FROM EXISTING STEEL STRUCTURE USED TO SUPPORT REMOVED FOLDING PARTITION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING MARBLE SADDLE IN ITS ENTIRETY. INSTALL NEW MARBLE ADA SADDLE TO CONFORM TO ALL BARRIER FREE REQUIREMENTS.
 - REMOVE EXISTING ALUMINUM DOOR SADDLE IN ITS ENTIRETY. INSTALL NEW ALUMINUM ADA SADDLE TO MATCH EXISTING. SADDLE TO CONFORM TO ALL BARRIER FREE REQUIREMENTS.
 - REMOVE EXISTING WOOD DOOR SADDLE IN ITS ENTIRETY. INSTALL NEW ALUMINUM ADA DOOR SADDLE TO CONFORM TO ALL BARRIER FREE REQUIREMENTS.
 - REMOVE EXISTING RUBBER THRESHOLD IN ITS ENTIRETY. INSTALL NEW RUBBER ADA THRESHOLD TO MATCH EXISTING TO CONFORM TO ALL BARRIER FREE REQUIREMENTS.
 - REMOVE EXISTING RECESSED FIRE EXTINGUISHER CABINET. SAWCUT OPENING IN WALL ADJACENT TO NEW WATER BOTTLE FILLER TO ACCOMMODATE REINSTALLATION OF EXISTING FIRE EXTINGUISHER CABINET AT SAME HEIGHT AS PREVIOUSLY INSTALLED IN WALL. INSTALL APPROPRIATE SIZE STEEL LINTEL OVER NEW OPENING.
 - REMOVE EXISTING STRUCTURAL CROSS BRIDGING BETWEEN JOISTS THAT ARE IN CONFLICT WITH NEW DUCTWORK TO BE INSTALLED. ADD NEW STRUCTURAL CROSS BRIDGING IN BAYS WHERE EXISTING DUCTWORK IS TO BE REMOVED. ALL NEW BRIDGING TO BE 2" x 2" x 1/2" SECURED TO TOP AND BOTTOM OF STEEL JOISTS.
 - REMOVE EXISTING VOLLEYBALL STATIONS IN THEIR ENTIRETY. PATCH EXISTING HOLE WITH NEW CONCRETE FLUSH WITH EXISTING CONCRETE. CORE DRILL NEW HOLE TO INSTALL NEW VOLLEY BALL STATION.
- ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. ALL EQUIPMENT, DEVICES, FIXTURES, ETC. SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE CONTRACTOR. NOTE: THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DIMINISHED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED DURING CONSTRUCTION. ALL DEVICES ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- REFER TO A101 FOR GENERAL DEMOLITION NOTES
- REFER TO A102 FOR ROOM FINISH SCHEDULE

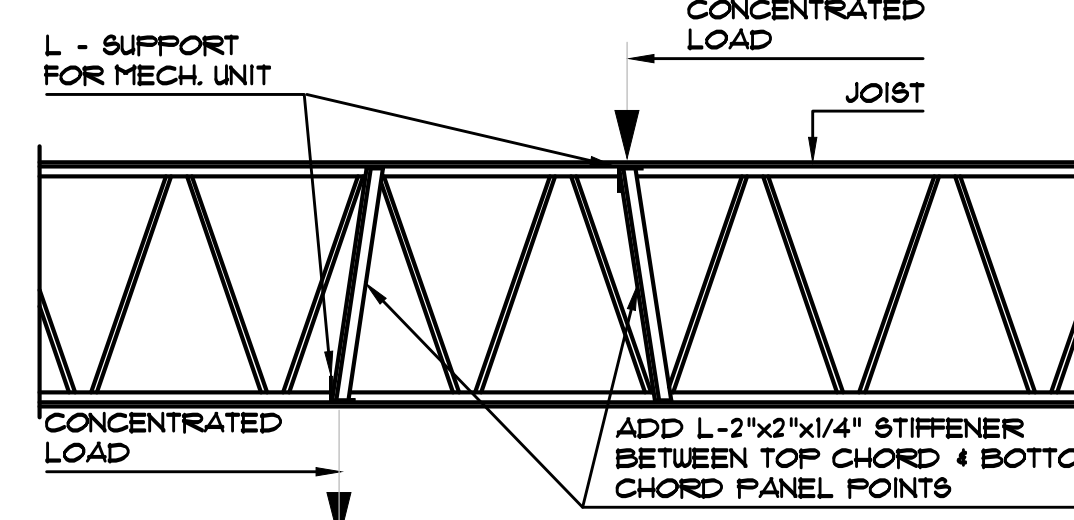
EXISTING ROOFING SYSTEM NOTE:
ALL WORK PERFORMED AS PART OF THIS PROJECT THAT IMPACTS OR MODIFIES THE EXISTING ROOFING SYSTEM IN ANY FORM SHALL BE PERFORMED IN A MANNER APPROVED BY THE ROOFING MANUFACTURER SUCH THAT THE EXISTING ROOF WARRANTY IN PLACE AT THE TIME OF THE WORK SHALL NOT BE VOIDED.

EXISTING ROOFING SYSTEM WARRANTY:
WILLIAM DAVIES MIDDLE SCHOOL
MANUFACTURER: CARLISLE
ROOFING SYSTEM: CARLISLE FULLY ADHERED EPDM ROOF SYSTEM
20 YEAR WARRANTY
DATE OF WARRANTY: NOVEMBER 7, 2005
INSTALLATION CONTRACTOR: THOMAS COMPANY, INC.
114 NORTH BRIGHTON AVENUE
ATLANTIC CITY, NJ 08401
PHONE - 609-344-5846



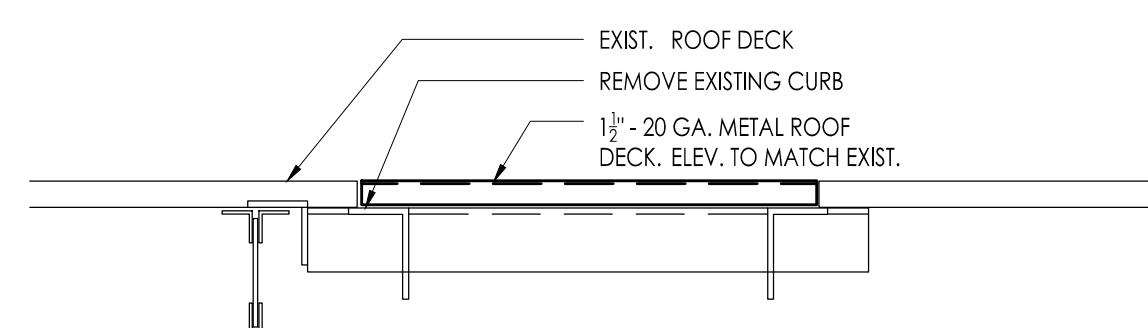
- NOTES:
1. FOR SIZE & LOCATION OF OPENINGS SEE ARCHITECTURAL & MECHANICAL DRAWINGS.
2. STEEL CONTRACTOR SHALL VERIFY ALL OPENINGS AND EXACT LOCATIONS WITH THE TRADE CONTRACTOR REQUIRING SAID OPENINGS PRIOR TO FABRICATION & ERECTION OF STEEL FRAMES.
3. PROVIDE STEEL FRAMES AS SHOWN AROUND ALL REQUIRED OPENINGS LARGER THAN 8" AT ROOF.
4. PROVIDE STEEL ANGLES ON ALL SIDES OF OPENINGS UNLESS BEAM IS SHOWN ON PLAN. ANGLE SIZES TO BE:
FOR 18" OR 24" ≤ 6'-6" L-4"x4"x5/16"
FOR 18" OR 24" > 6'-6" L-6"x6"x3/8"
5. PROVIDE STEEL ANGLES ON ALL SIDES OF MECH'L CURBS UNLESS BEAM IS SHOWN ON PLAN. ANGLE SIZES TO BE L-6"x6"x3/8".
6. FOR SIZE & LOCATION OF MECH'L UNITS, SEE ARCH'L & MECH'L DWGS.

TYPICAL OPNG. DETAIL @ EXIST'G. ROOF & UNDER MECH'L CURB

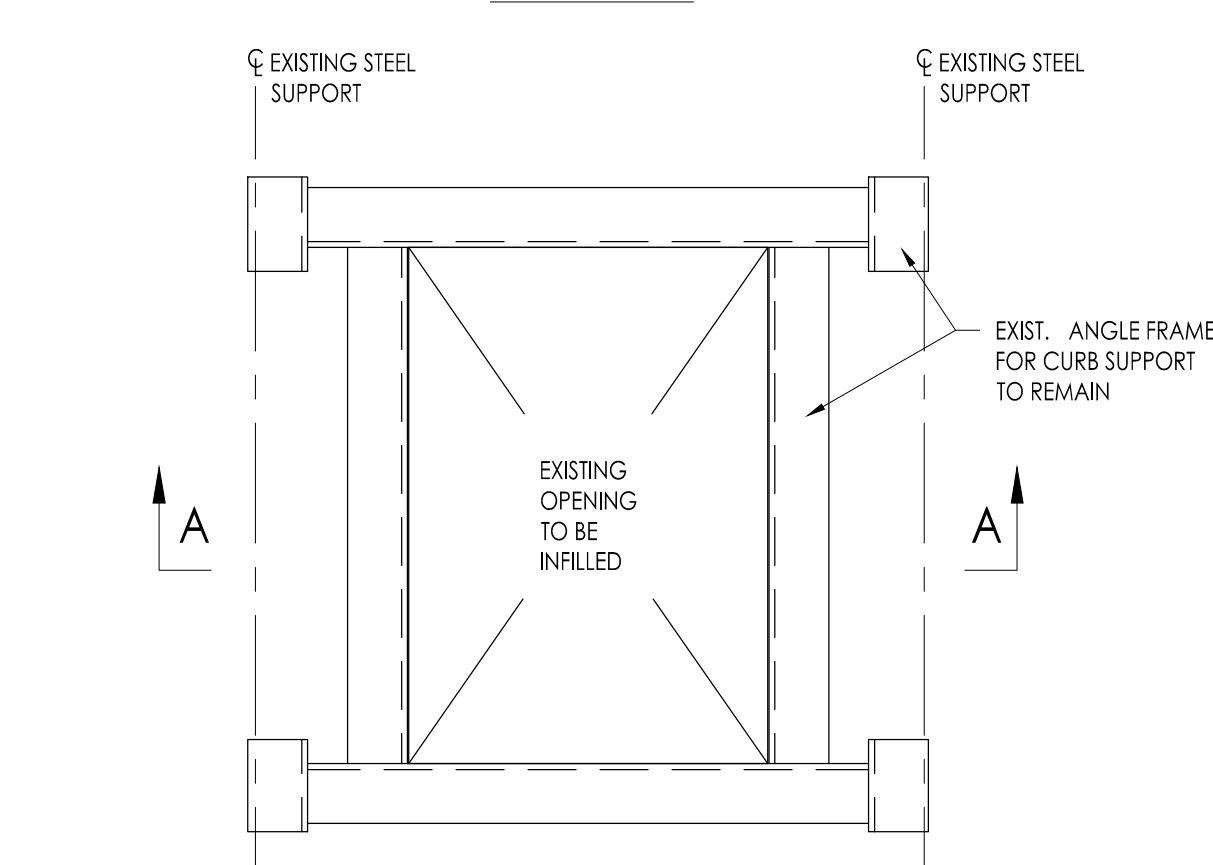


NOTE:
SUPPORTING LOAD AT CONDENSERS, MECHANICAL UNITS AND ALL CONCENTRATED LOADS GREATER THAN 300 lbs. OMIT IF LOAD IS WITHIN 3' OF A PANEL POINT.

TYPICAL DETAIL OF REINF'D. JOIST

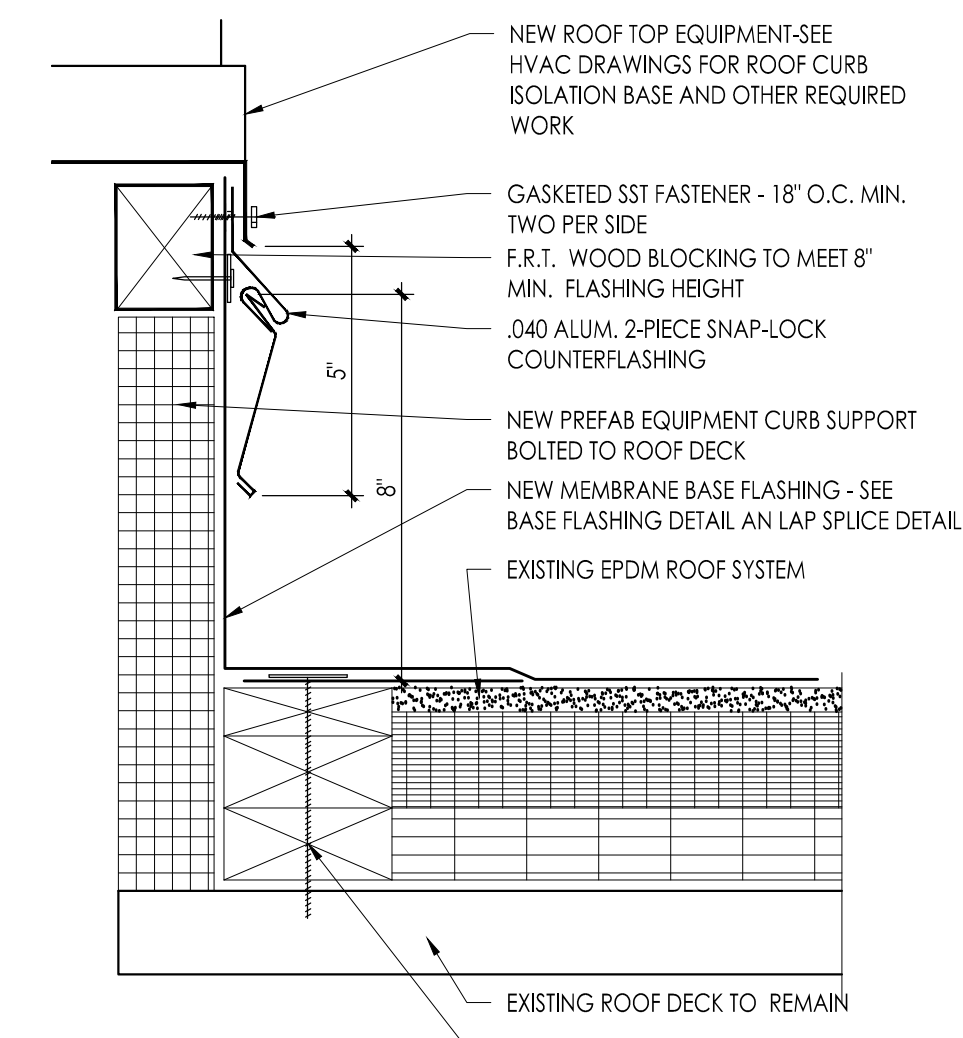


DETAIL "A"

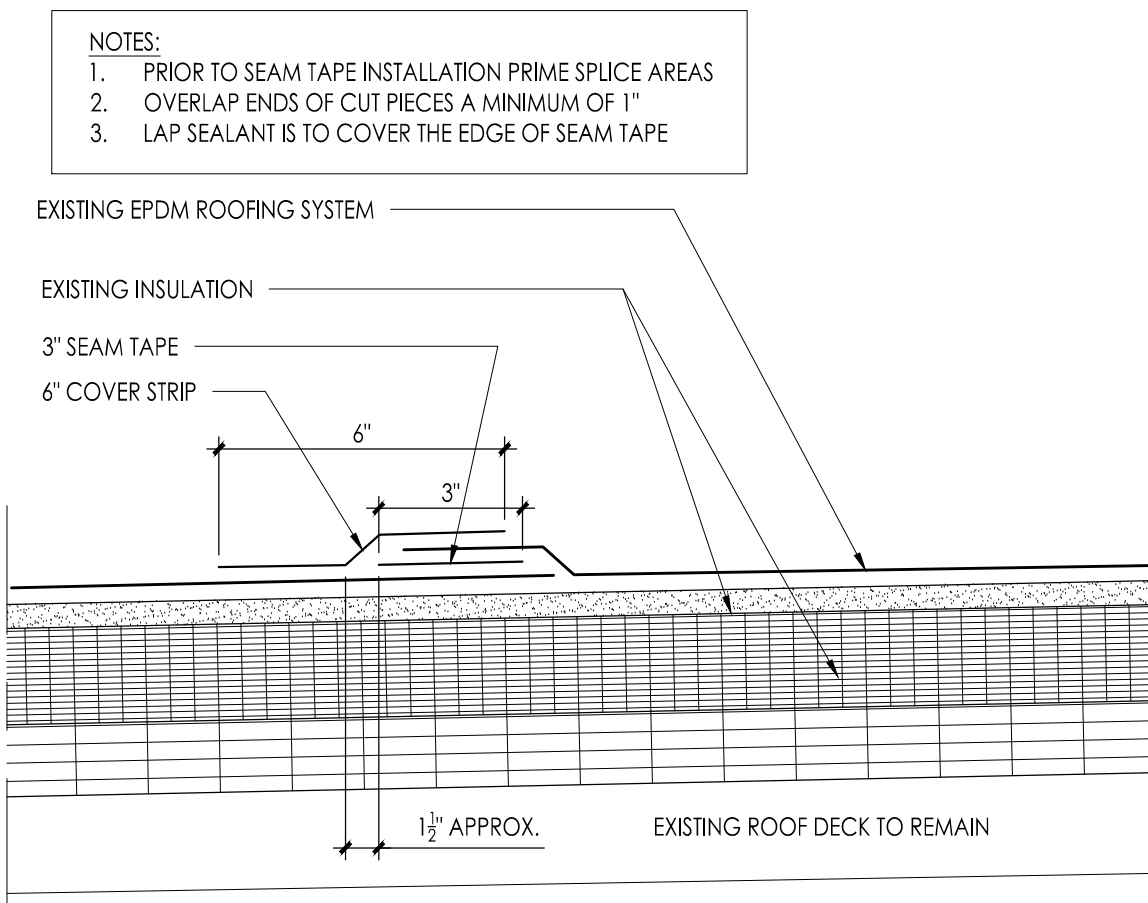


- NOTES:
1. PROVIDE 1 1/2" - 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK (GALV) INFILL + INSULATION TO MATCH EXIST. ROOF ELEV. @ EXISTING OPENING. PROVIDE MINIMUM 2" BEARING FOR NEW DECK.
2. PROVIDE TEK SCREW FASTENERS @ EACH DECK FLUTE.
3. IF EXISTING CONDITIONS DIFFER FROM THOSE ON PLAN, CONTACT ARCH. OR ENGINEER.

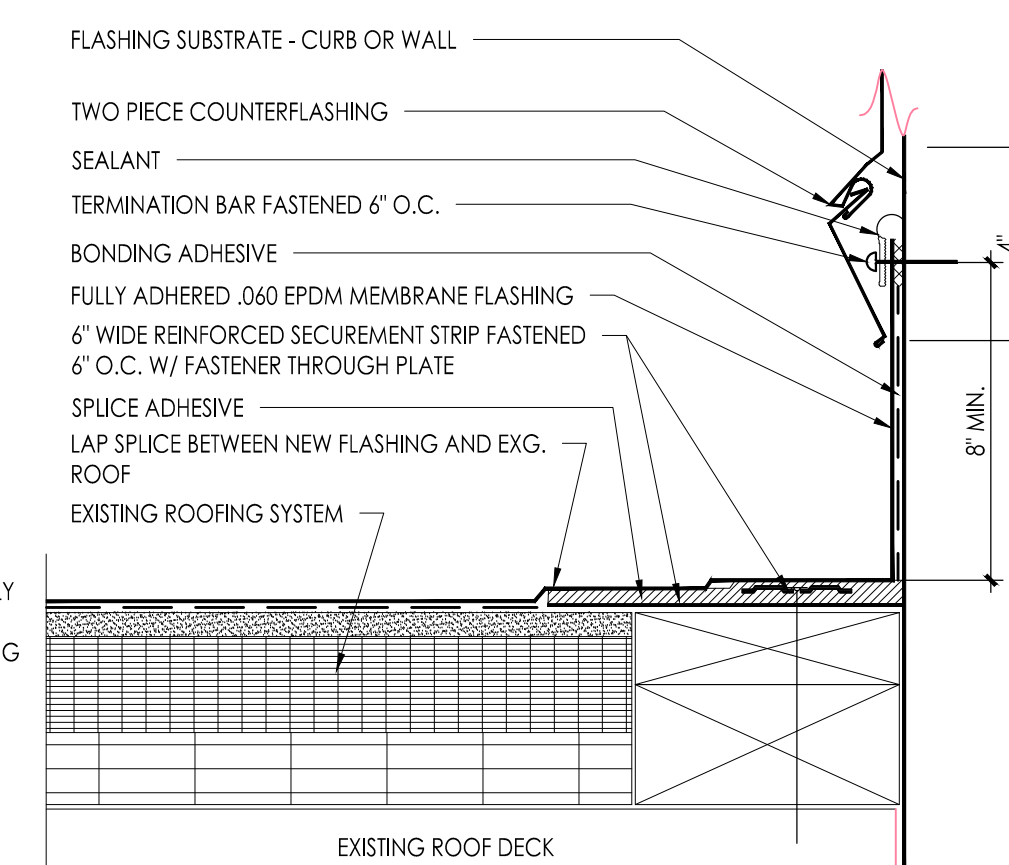
1 STEEL DECK INFILL DETAIL
Scale: 3/4" = 1'-0"



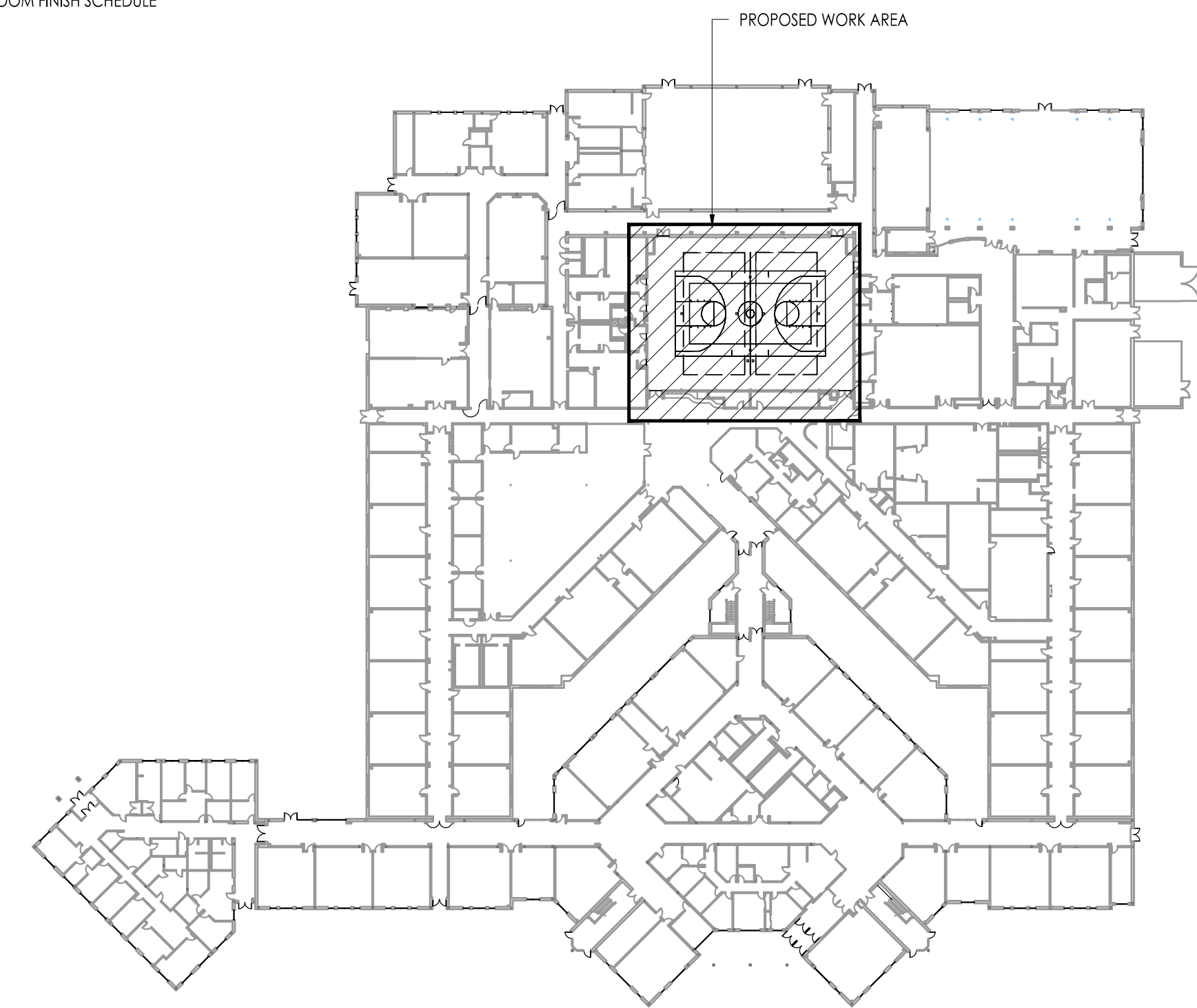
2 ROOF TOP CURB FLASHING EXISTING EPDM ROOF
3" = 1'-0"



3 TYPICAL LAP SPICE DETAIL
3" = 1'-0"



4 TYPICAL BASE FLASHING DETAIL EXISTING EPDM ROOF
3" = 1'-0"



BUILDING KEY PLAN
Scale: NOT TO SCALE

JOHN J. VEISZ, AIA, CSFA
NO. 2148660001 PA-84201818
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2148660001 PA-84202504
GEORGE R. DUTHIE JR., AIA, PP
NO. 2148660001 PA-84202505

FVHD architects
planners
Fraytak Veisz Hopkins Duthie P.C.
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17435

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

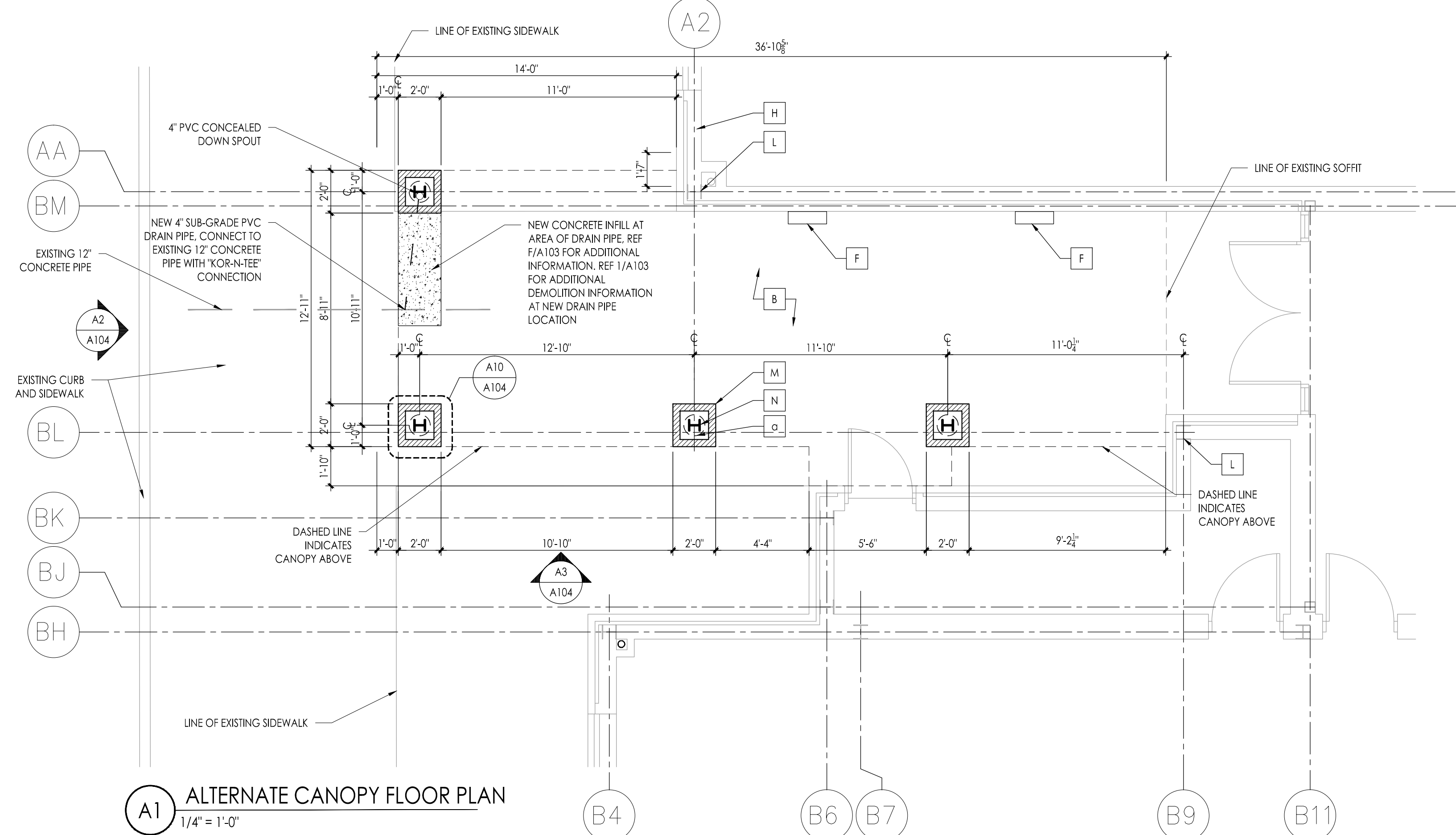
Project Location
1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330

Project Number
4937C
Project Date
02.15.2019
Checked By
JJV
Drawn By
JMK
Scale
AS NOTED

Drawing Name
GYMNASIUM DEMOLITION PLAN, NEW WORK PLAN, DETAILS

No.	Date	Description

Drawing Number
A103



A1 ALTERNATE CANOPY FLOOR PLAN
1/4" = 1'-0"

- STRUCTURAL STEEL**
- ALL STRUCTURAL STEEL DETAILS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST ISSUE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN.
 - CONNECTIONS WILL BE DESIGNED TO DEVELOP THE FULL STRENGTH OF THE MEMBER OVER THE REQUIRED SPAN.
 - PROVIDE DOUBLE ANGLE CONNECTIONS AT BEAM TO BEAM CONNECTIONS.
 - FIELD CONNECTIONS SHALL BE MADE BY HIGH STRENGTH BOLTS 7/8" MIN DIA OR WELDED AS SHOWN ON DRAWINGS.
 - ALL STRUCTURAL WIDE FLANGE SHAPES TO BE ASTM A-36

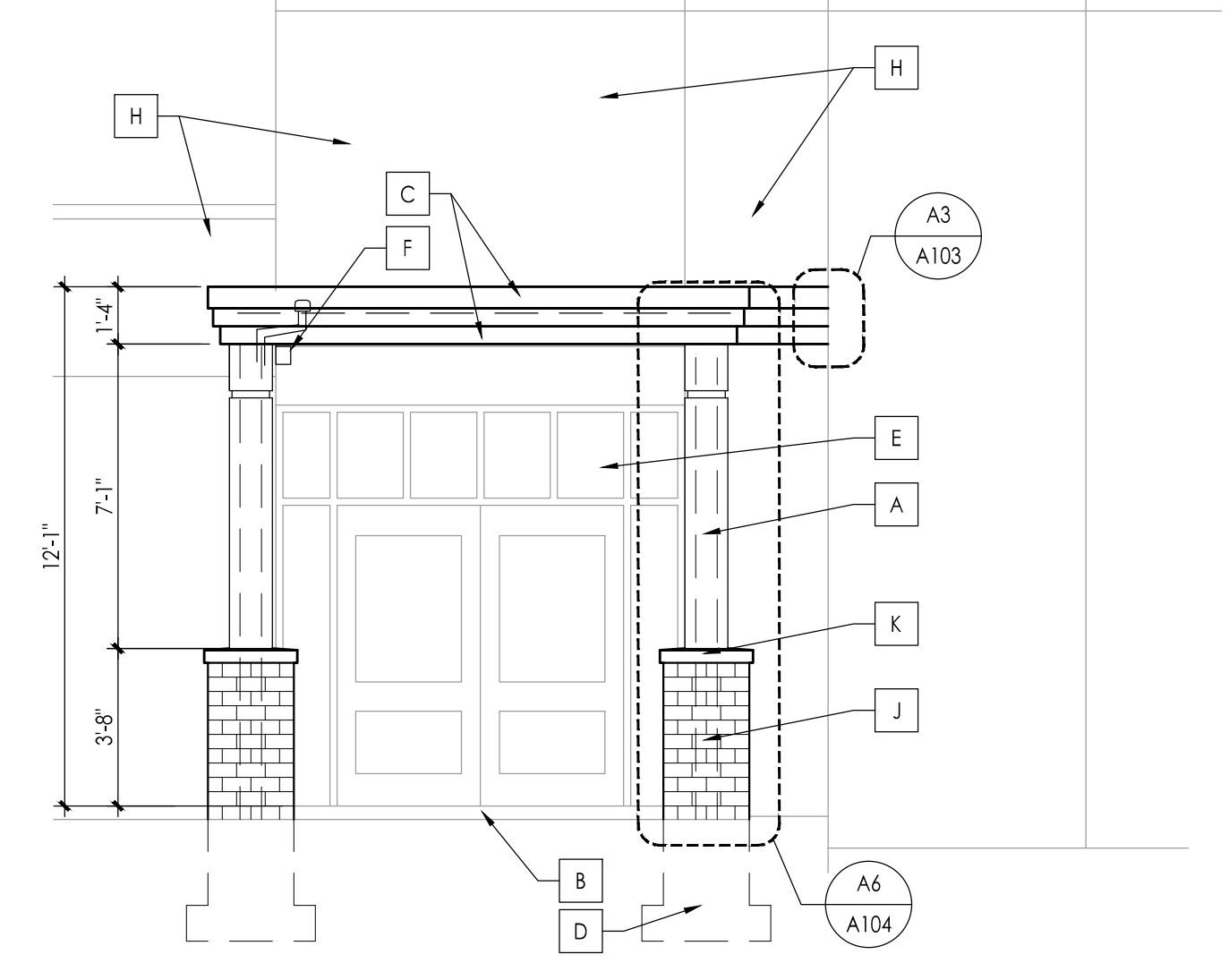
- STEEL ROOF DECK**
- STEEL DECK SHALL BE 20 GAUGE GALVANIZED, TYPE "B".
 - STEEL DECK TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

- MASONRY**
- ALL BLOCK WORK SHALL BE IN ACCORDANCE WITH LATEST BC W/NU MODIFICATION AND OTHER APPLICABLE CODES.
 - ALL BLOCK SHALL BE LIGHTWEIGHT AGGREGATE AND CONFORM TO ASTM C 90.
 - MORTAR SHALL BE ASTM C 270, TYPE "M" FOR BELOW GRADE AND TYPE "M" OR "S" FOR ABOVE GRADE WORK.
 - HORIZONTAL REINFORCING SHALL NO. 9 GAUGE "DUR-O-WALL" OR EQUIVALENT.
 - WHERE BLOCK FILL IS CALLED FOR ON DRAWINGS, USE TYPE "M" MORTAR OF CONCRETE WITH A COMPRESSIVE STRENGTH OF 2500PSI IN ACCORDANCE WITH ASTM C 476 AND INSTALLED IN ACCORDANCE WITH ACI-531 FOR HIGH OR LOW LIFT PROCEDURES.
 - COORDINATE MASONRY WITH ALL TRADES REQUIRING THIS TO BE SUBMITTED.
 - BRICK ON COLUMN BASE WILL MATCH EXISTING. MASONRY JOINTS WILL MATCH EXISTING IN COLOR AND FINISH.

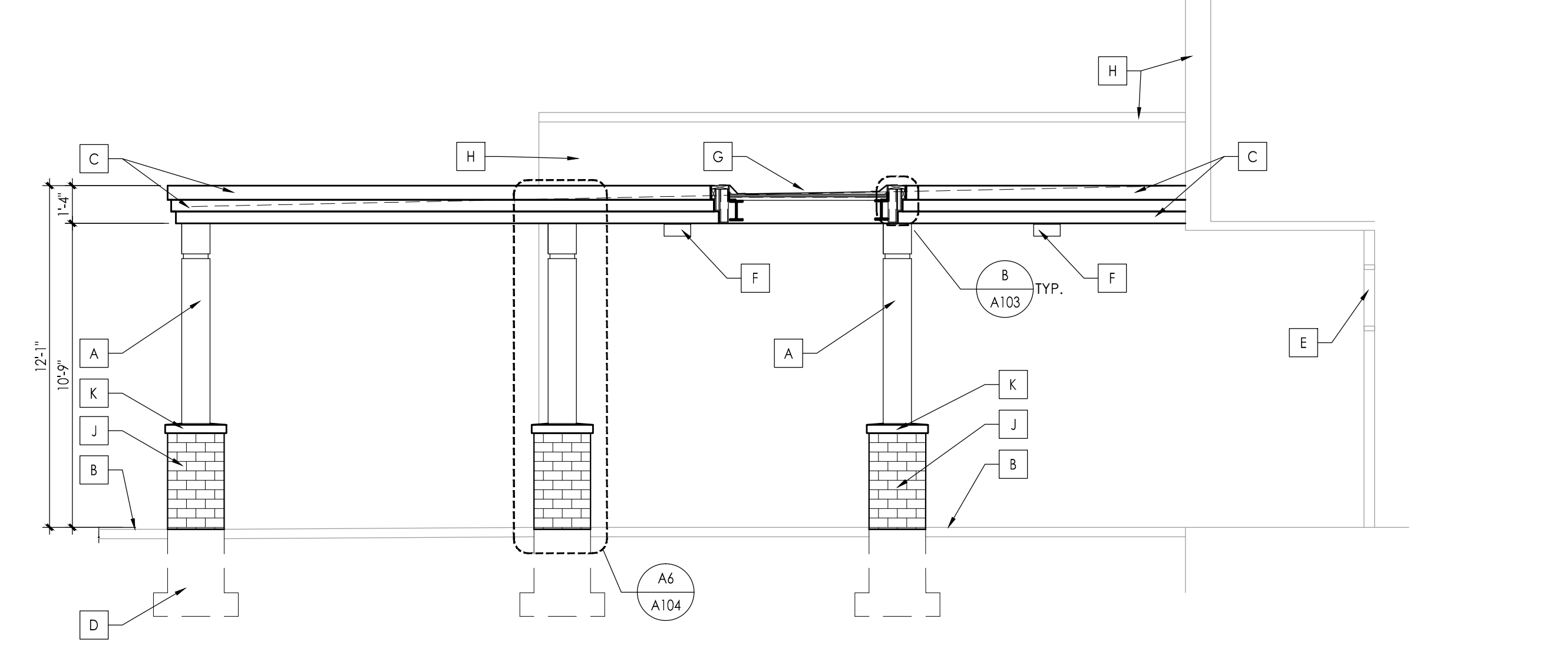
- ADDITIONAL NOTES FOR CONCRETE AND REINFORCEMENT**
- REF A103 FOR ADDITIONAL NOTES AND INFORMATION FOR CONCRETE FOOTINGS AND STEEL REINFORCEMENT
 - COORDINATE DEMOLITION PLAN ON SHEET A103 WITH ALT PLAN COLUMN LAYOUT

KEYNOTE LEGEND (ALT BIB):

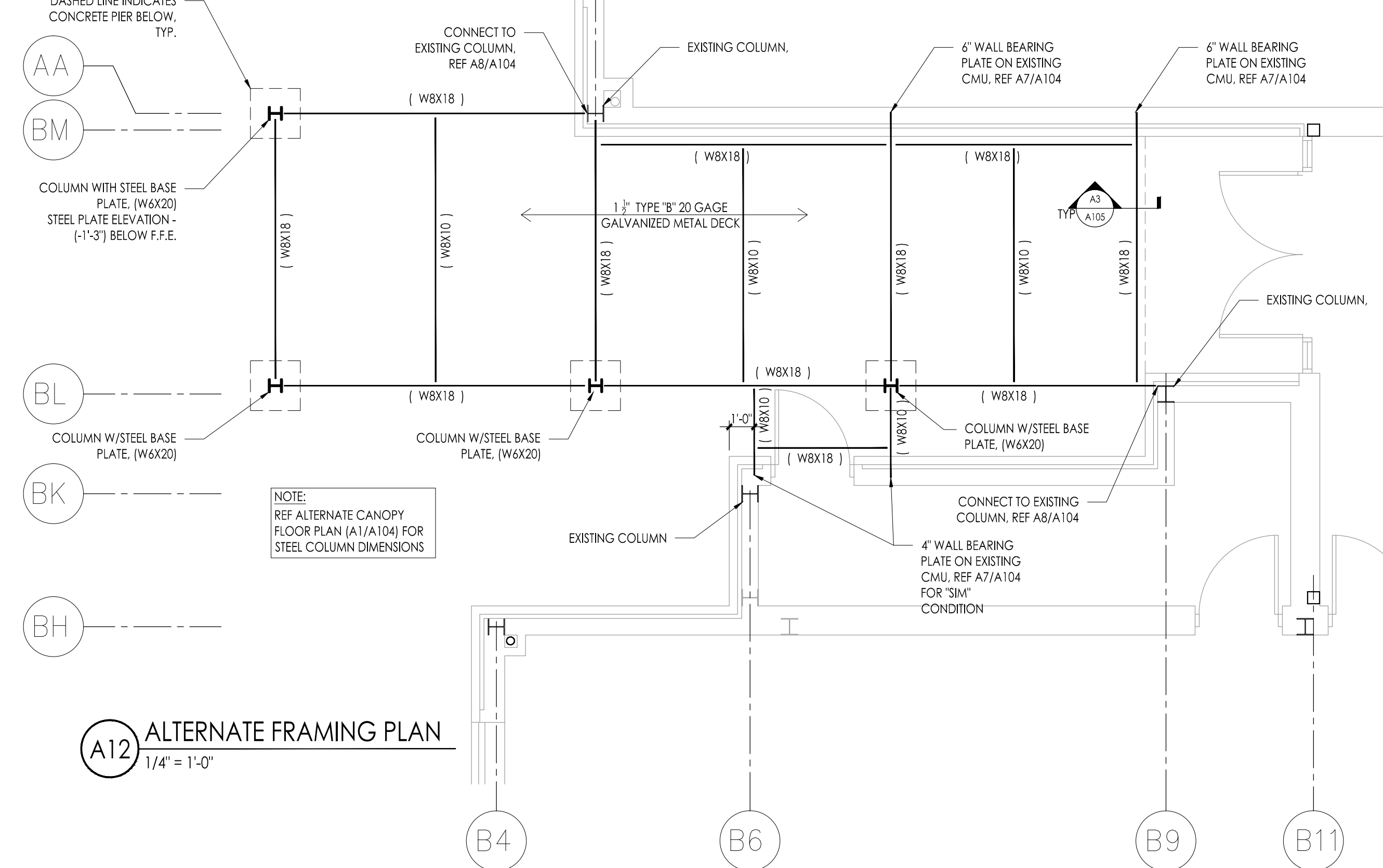
A	12" DIA GLASS FIBER REINFORCED CONCRETE COLUMN COVER, REF A4/A104
B	EXISTING CONCRETE WALK TO REMAIN
C	METAL FASCIA, COLOR SELECTED BY ARCHITECT
D	CANOPY CONCRETE FOOTINGS WITH STEEL REINFORCEMENT, REF A4/A104
E	EXISTING STOREFRONT SYSTEM TO REMAIN
F	NEW WALL MOUNTED LIGHT, REF ELECTRIC
G	CANOPY FLASHING BEYOND, REF CANOPY ROOF PLAN
H	EXISTING BUILDING, BRICK VENEER
J	4" X 4" X 8" BRICK, MATCH EXISTING BRICK AND FINISH
K	CAST STONE CAP, REF A5/A104
L	EXISTING STEEL COLUMN
M	BRICK BASE, REF A10/A104
N	STEEL COLUMN, REF FRAMING PLAN



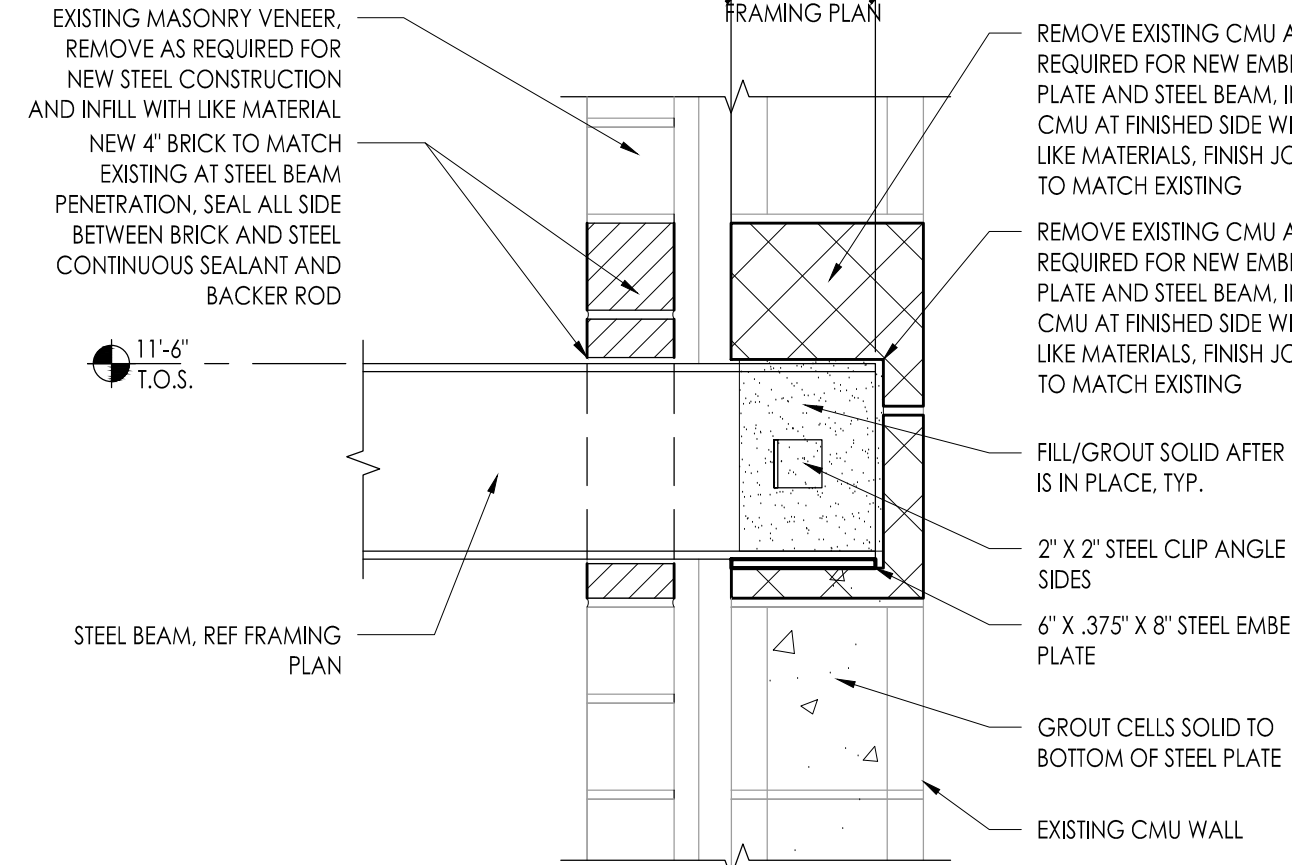
A2 ALTERNATE CANOPY ELEVATION
1/4" = 1'-0"



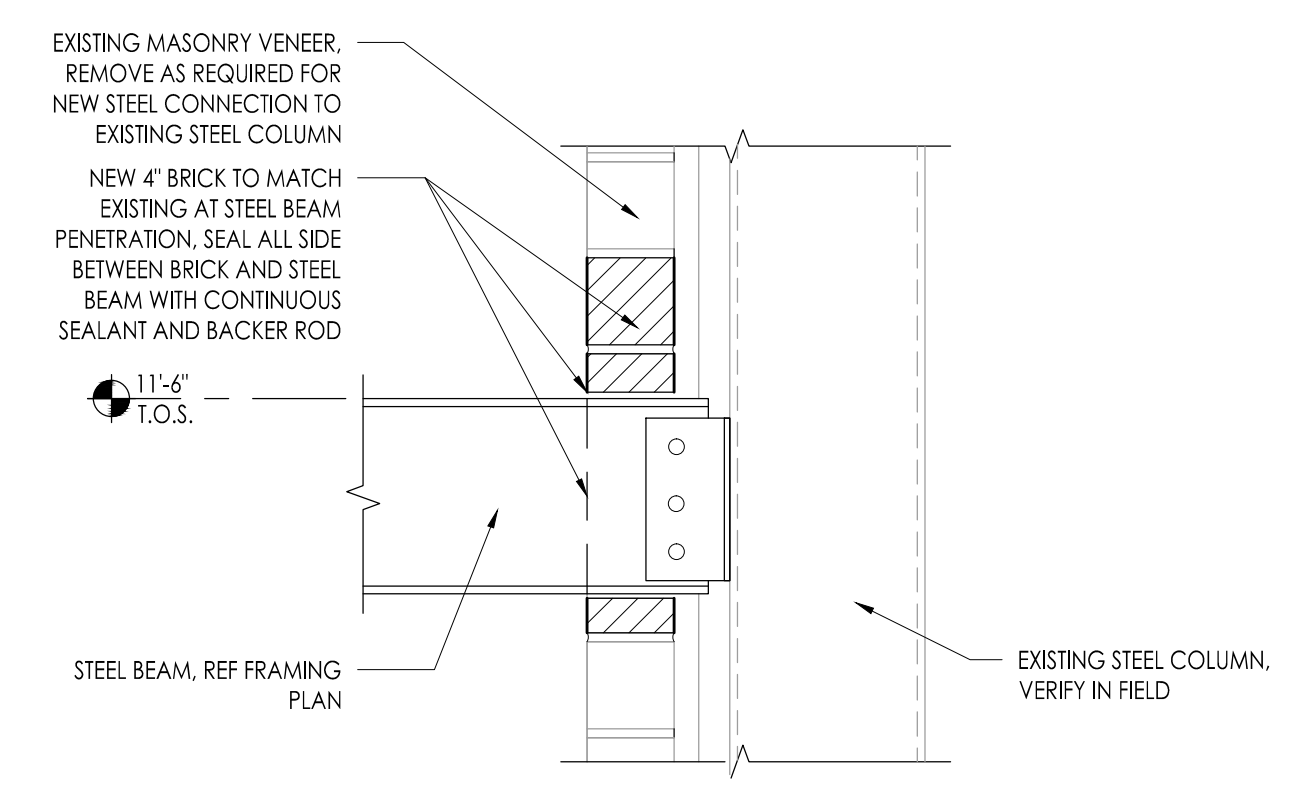
A3 ALTERNATE SIDE ELEVATION
1/4" = 1'-0"



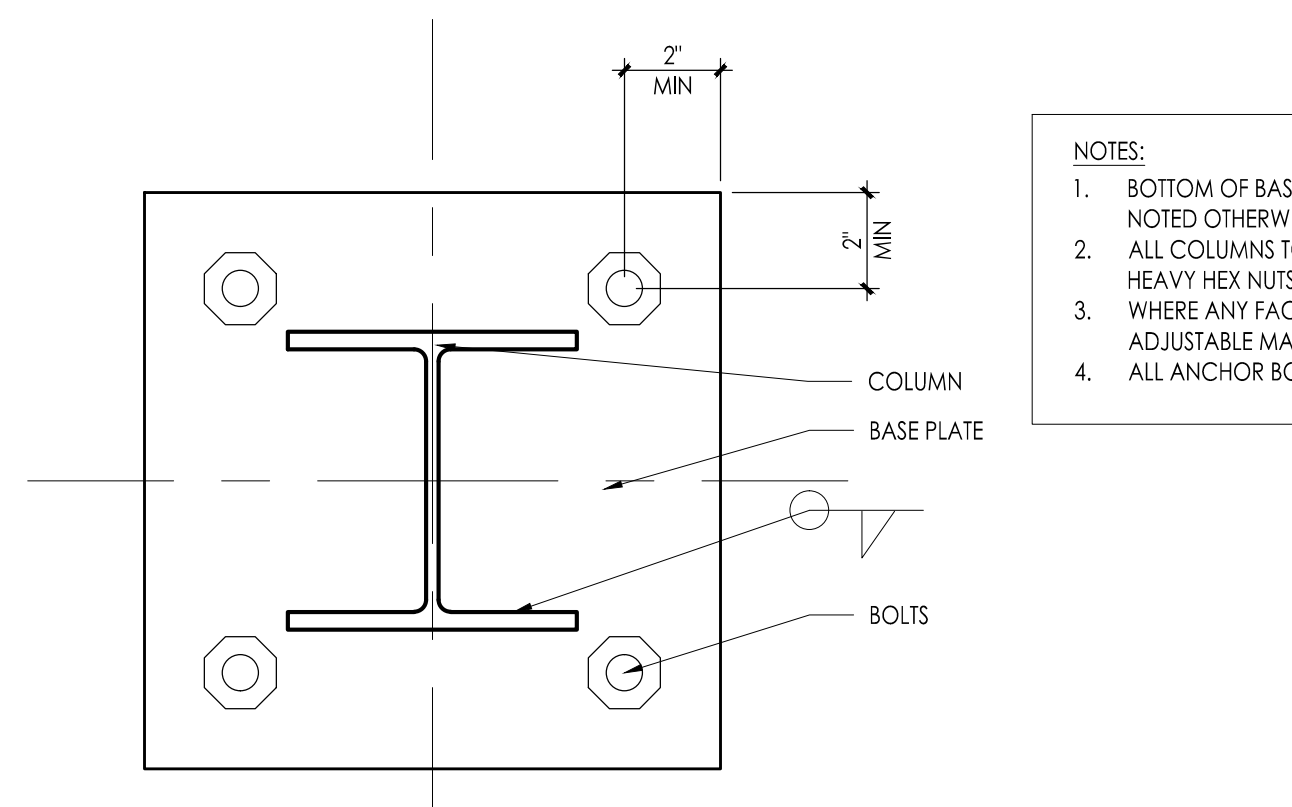
A12 ALTERNATE FRAMING PLAN
1/4" = 1'-0"



A7 TYPICAL WALL PENETRATION AND WALL BEARING STEEL WITH PLATE
1-1/2" = 1'-0"

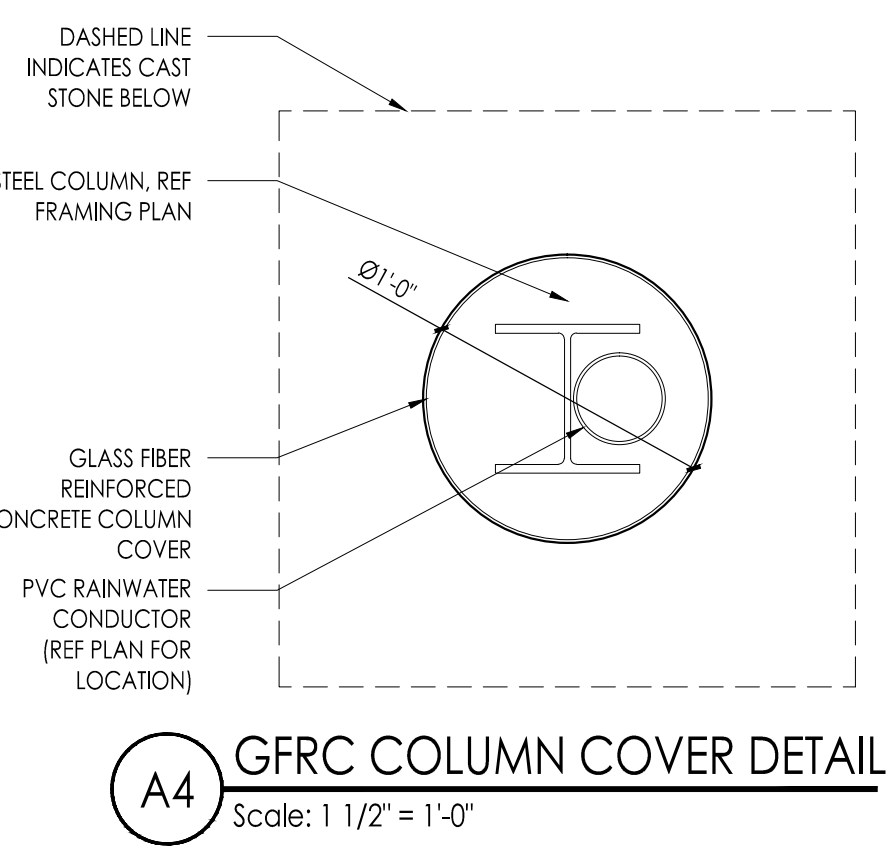


A8 TYPICAL WALL PENETRATION AT STEEL BEAM AND EXISTING COLUMN
1-1/2" = 1'-0"

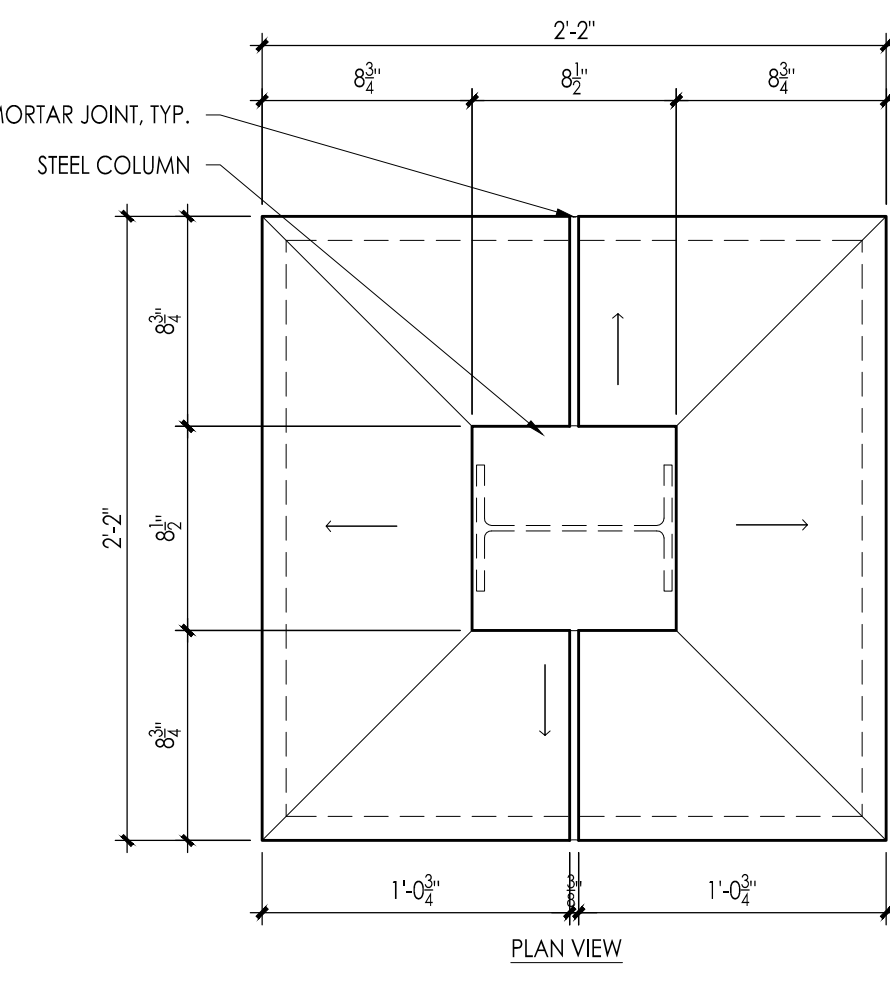


A11 BASE PLATE DETAIL
1-1/2" = 1'-0"

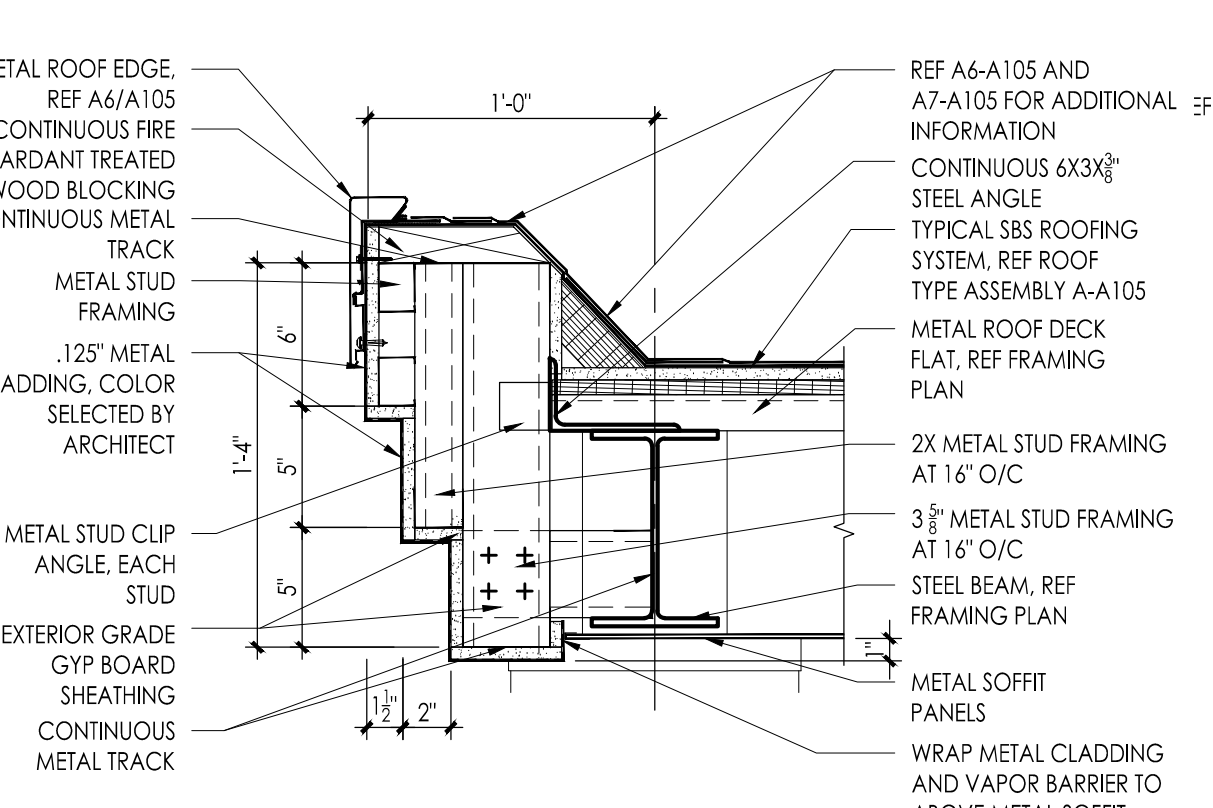
- NOTES:**
- BOTTOM OF BASE PLATE TO BE -7" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE
 - ALL COLUMNS TO HAVE (4) ANCHOR BOLTS WITH 9" MIN. EMBEDMENT AND HEAVY HEX NUTS
 - WHERE ANY FACE OF COLUMN ABUTS MASONRY WALLS, PROVIDE ADJUSTABLE MASONRY ANCHORS @ 24" O/C VERTICALLY
 - ALL ANCHOR BOLTS SHALL BE ASTM F1554 GR. 36



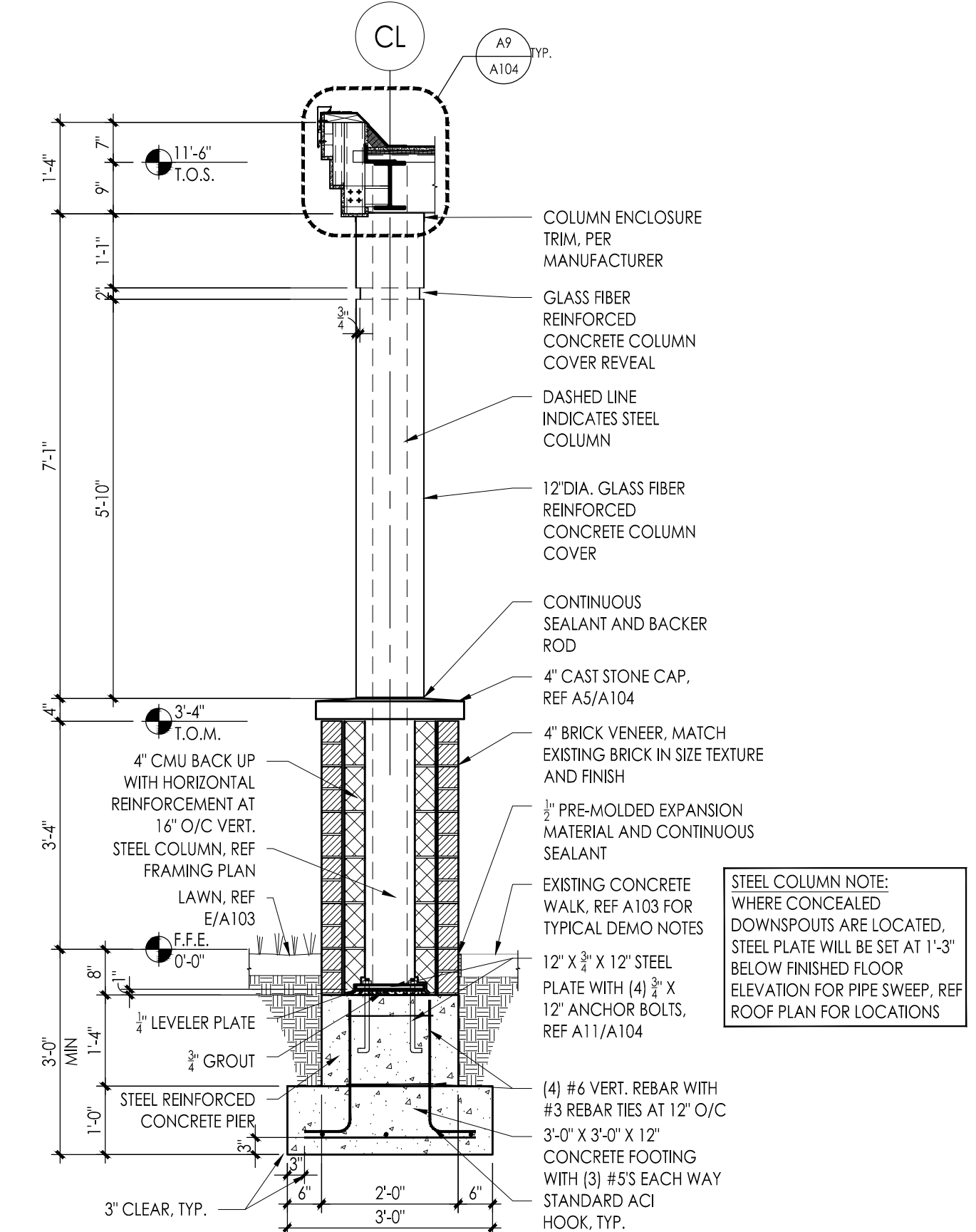
A4 GFRP COLUMN COVER DETAIL
Scale: 1 1/2" = 1'-0"



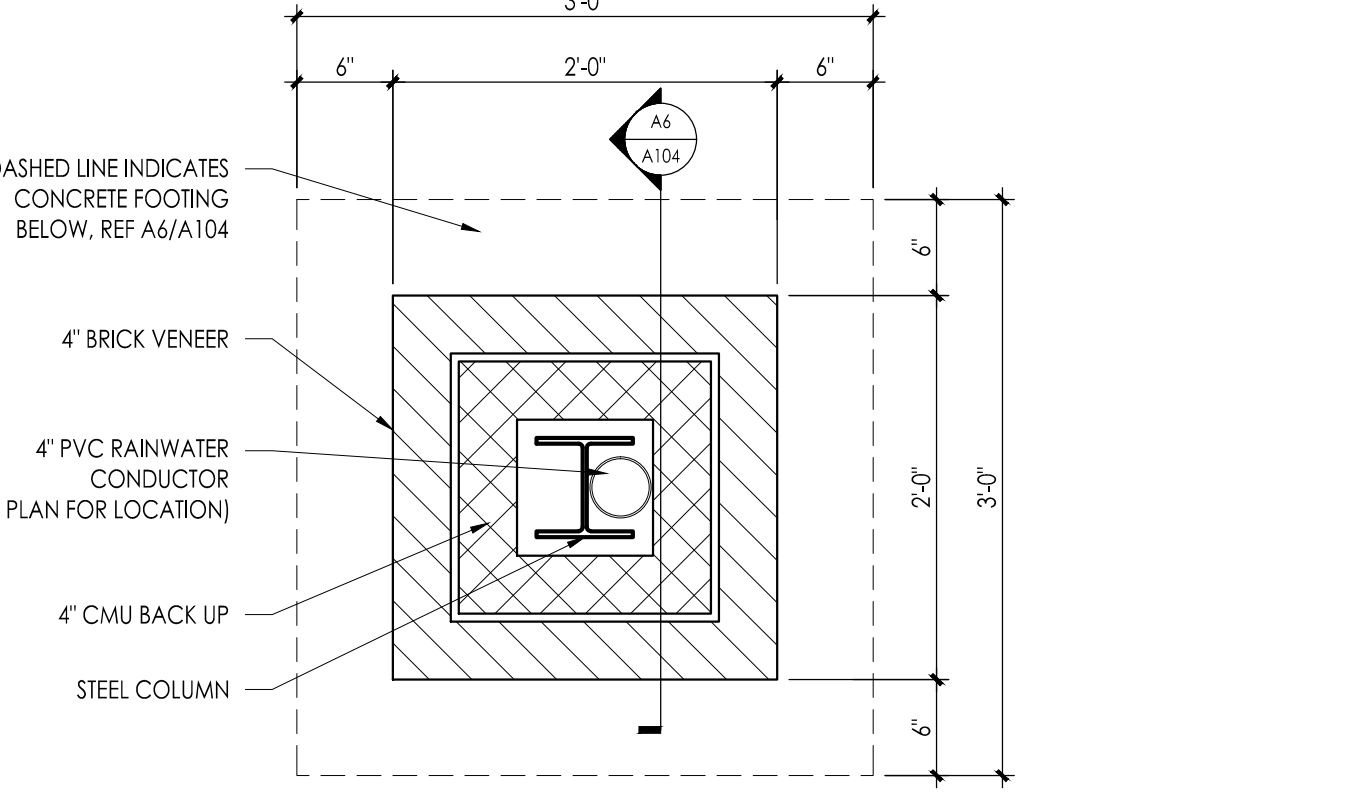
A5 CAST STONE CAP
Scale: 1 1/2" = 1'-0"



A9 TYPICAL ROOF EDGE/PARAPET DETAIL
1-1/2" = 1'-0"



A6 COLUMN SECTION
1/2" = 1'-0"



A10 MASONRY PIER BASE
1" = 1'-0"

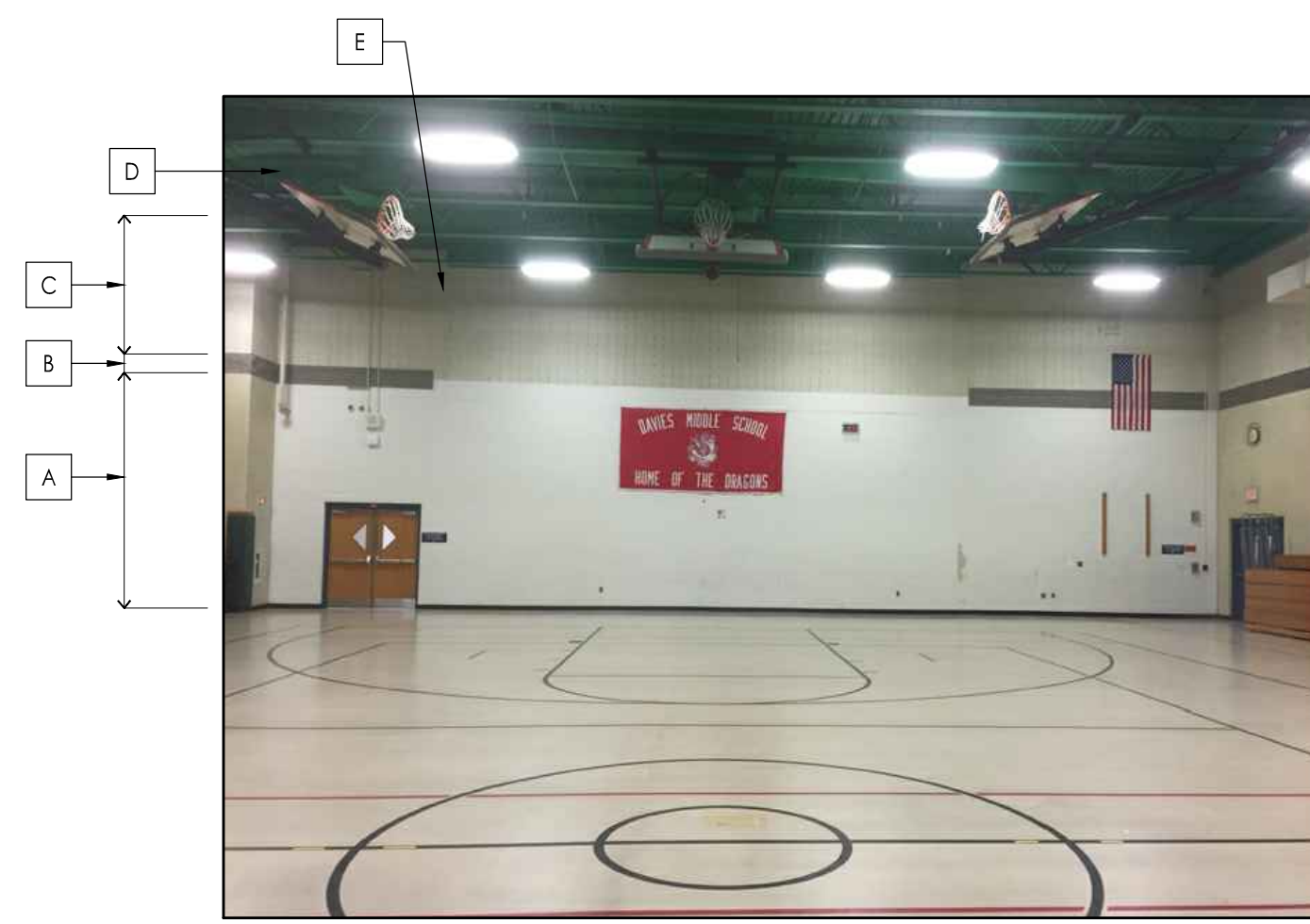
FVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clear - Pennsylvania 17433

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: BO
Scale: AS NOTED
Drawing Name: CANOPY PLANS SECTIONS AND DETAILS (ALT BID)

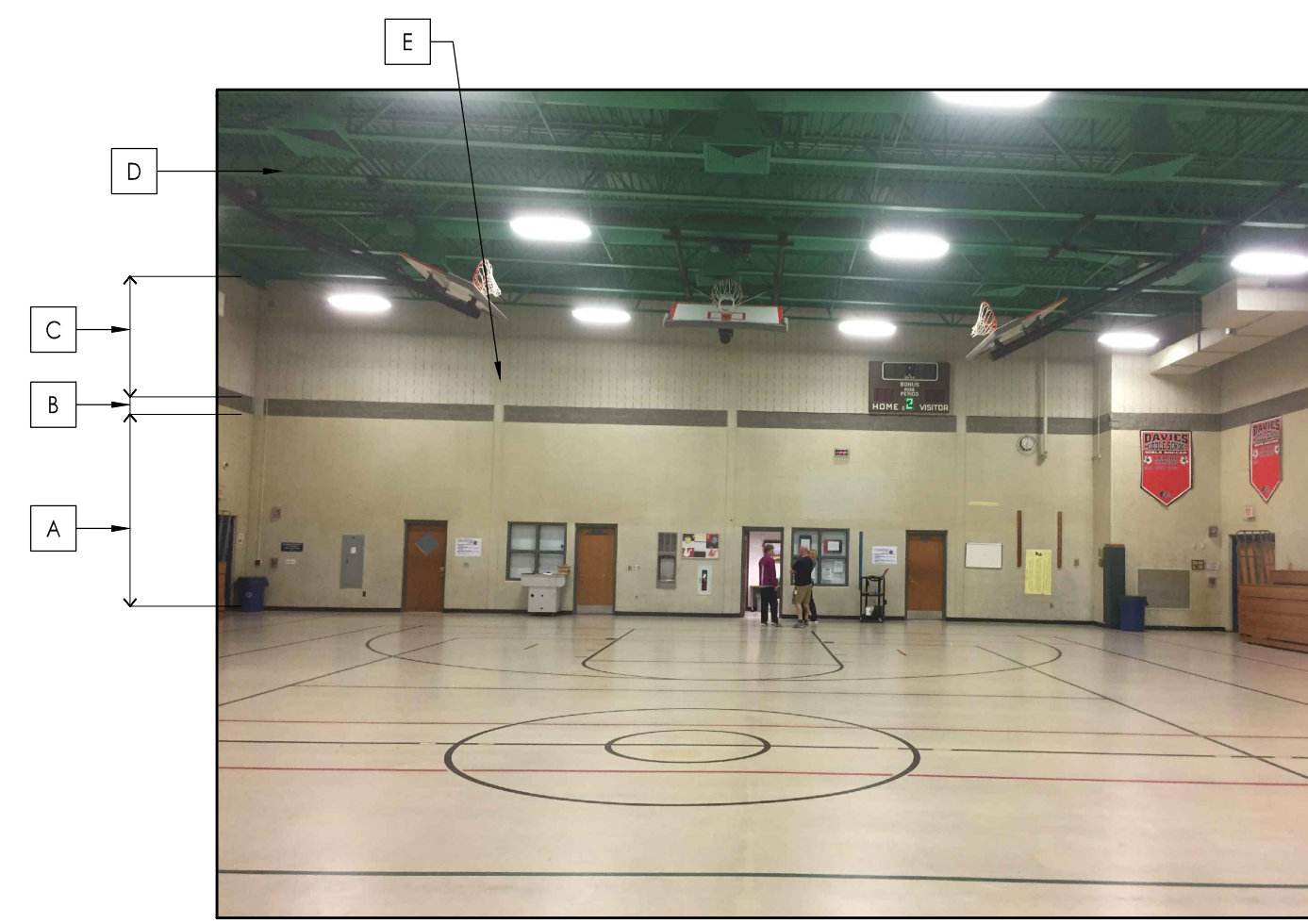
Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: BO
Scale: AS NOTED
Drawing Name: CANOPY PLANS SECTIONS AND DETAILS (ALT BID)

No.	Date	Description

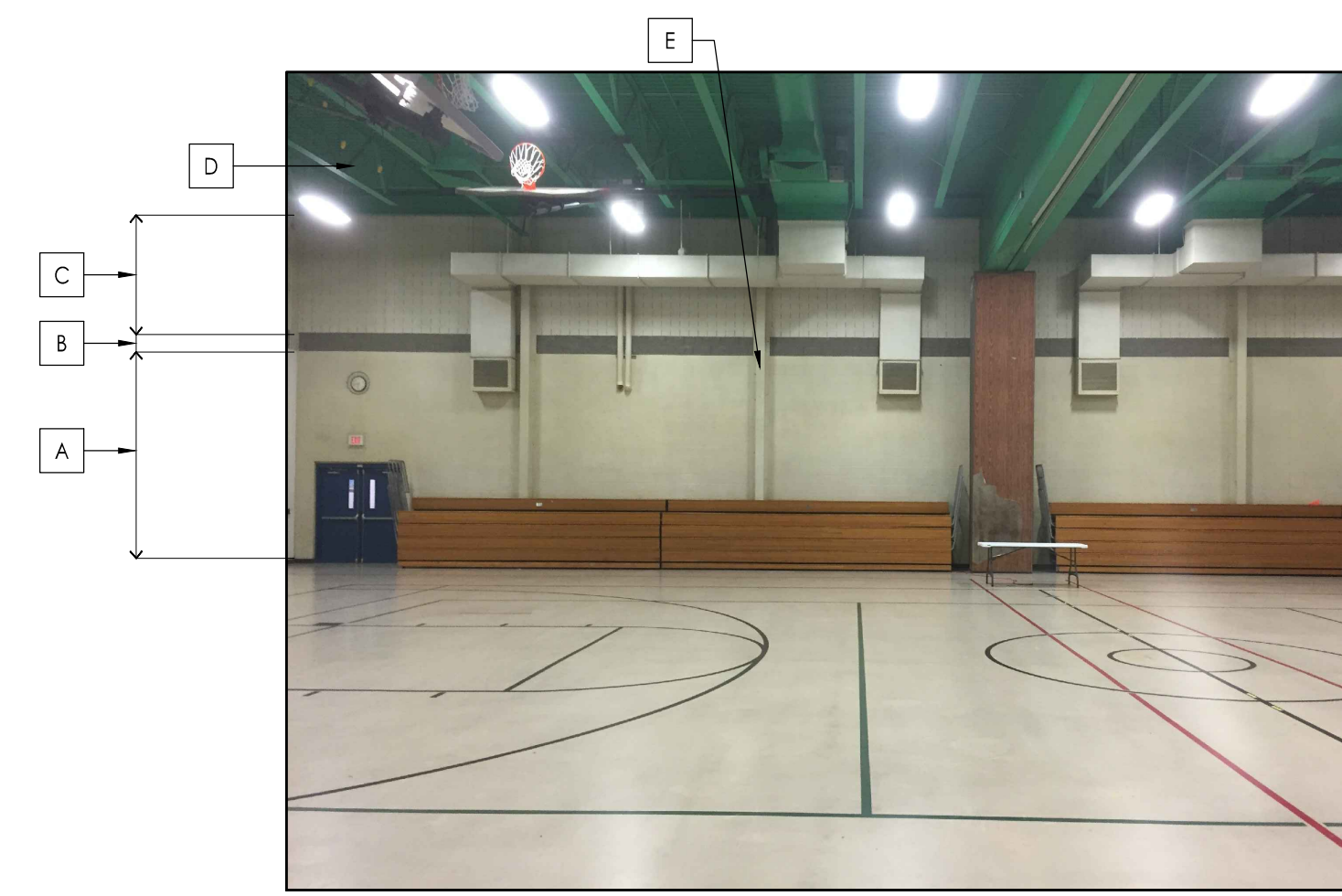
Drawing Number: **A104**



1 INTERIOR GYM ELEVATION
Scale: N.T.S.



2 INTERIOR GYM ELEVATION
Scale: N.T.S.



3 INTERIOR GYM ELEVATION
Scale: N.T.S.



4 INTERIOR GYM ELEVATION
Scale: N.T.S.

PAINTING SCHEDULE:	
A	COLOR #1 - EXISTING CMU WALL
B	COLOR #2 - EXISTING ARCHITECTURAL CMU - PAINT
C	COLOR #3 - EXISTING SOUND BLOCK
D	COLOR #4 - EXISTING METAL DECK, BEAMS, AND JOISTS
E	COLOR #5 - COLUMN COVERS OR FACE OF STEEL COLUMNS

NOTE: ALL NEW DUCTWORK TO BE PAINTED BY MECHANICAL CONTRACTOR - COLOR DETERMINED BY ARCHITECT

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17433
 F V H D P C - C O M

JOHN J. VEISZ, AIA, CSFA
 NJ-214866001 PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-214866001 PA-84202004
 GEORGE R. DUTHIE JR., AIA, PP
 NJ-214866001 PA-84202004
 Date: *02/15/19*
 Architect: *[Signature]*

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

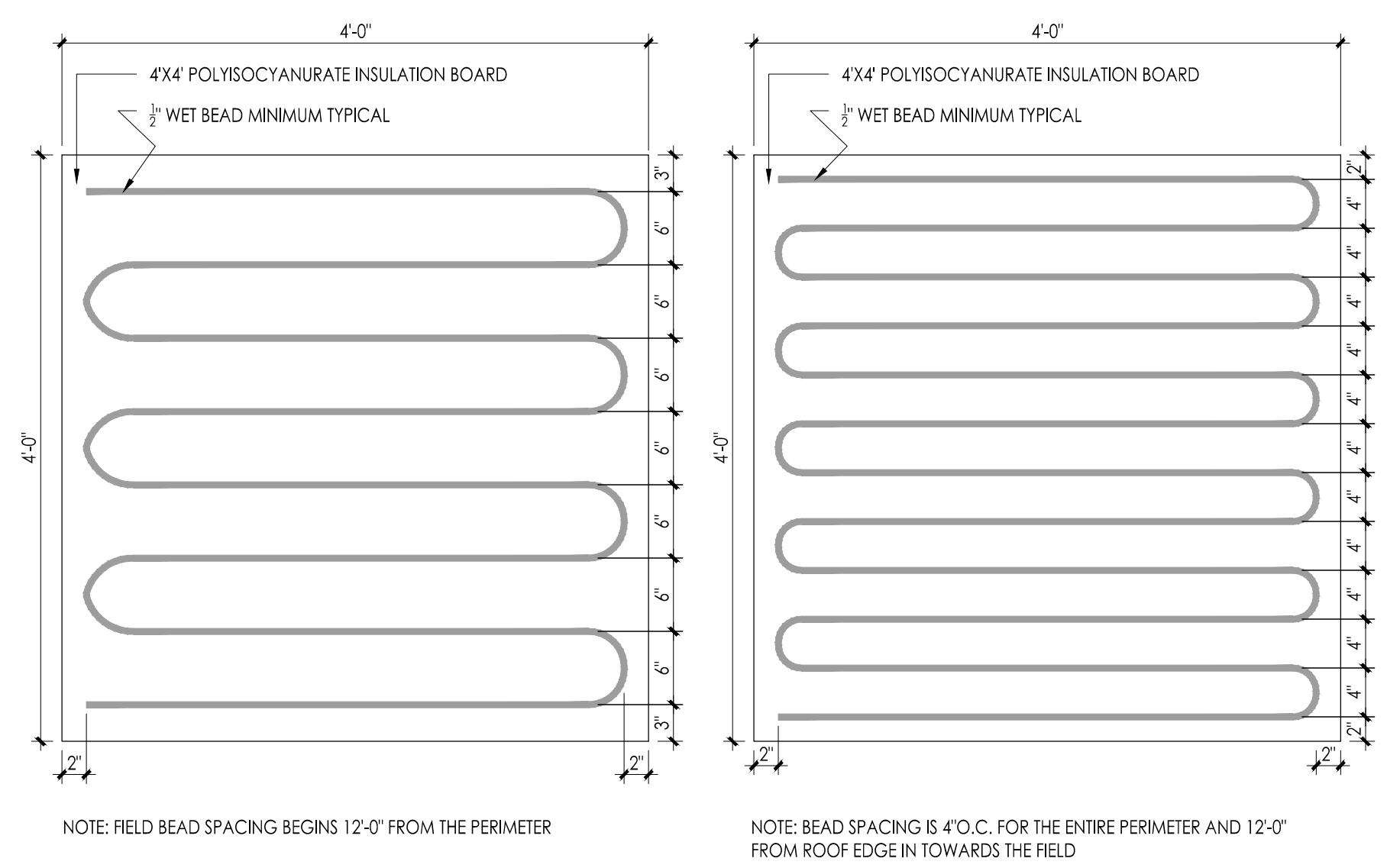
Project Location
**1876 DENNIS FORMAN DR
 MAYS LANDING,
 NJ 08330**

Project Number
4937C
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
JMK
 Scale
AS NOTED

Drawing Name
INTERIOR GYM ELEVATIONS

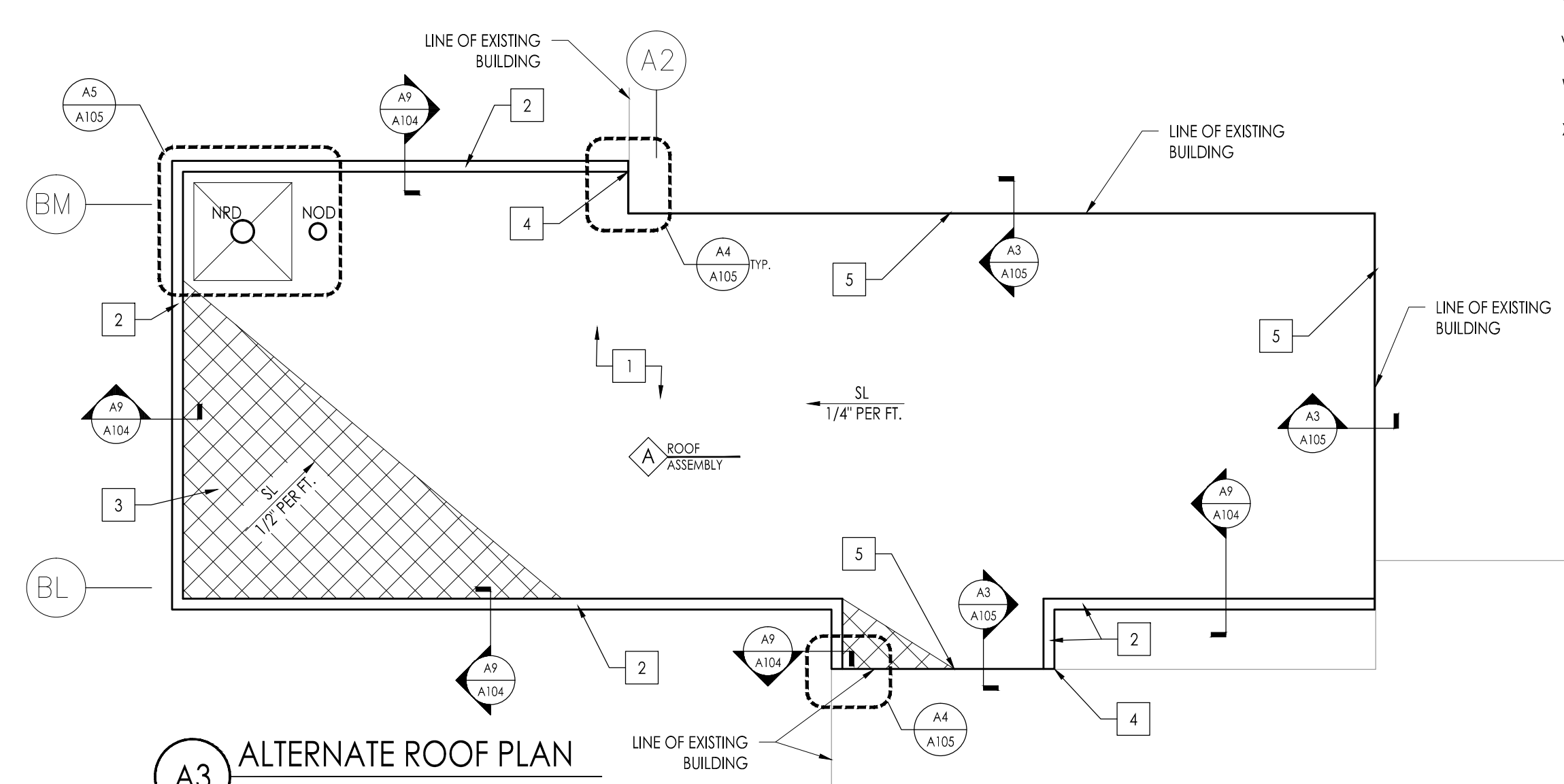
Revisions		
No.	Date	Description

Drawing Number
A104

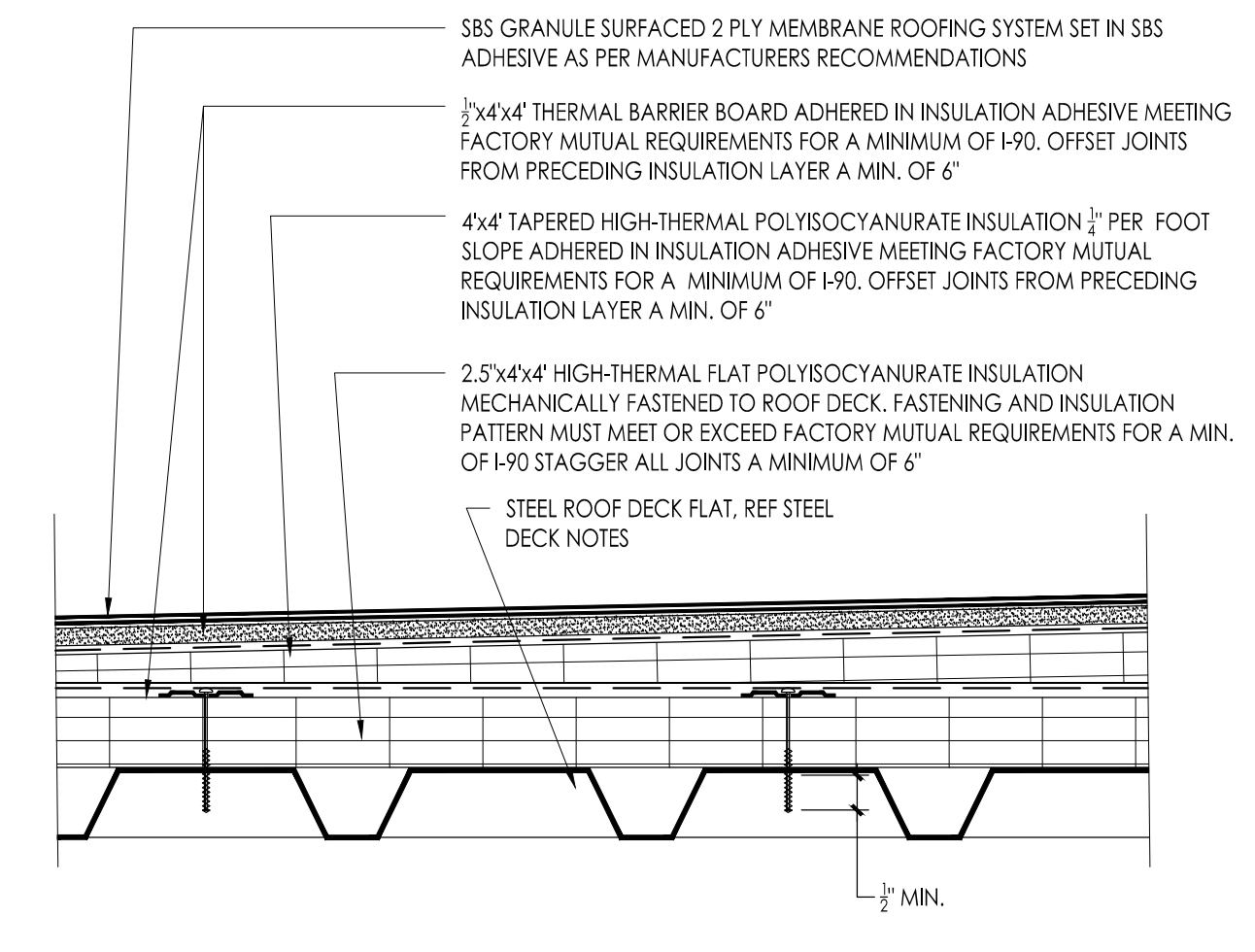


A1 TYPICAL INSULATION ADHESIVE BEAD APPLICATION @ FIELD
1"=1'-0"

A2 TYPICAL INSULATION ADHESIVE BEAD APPLICATION @ PERIMETER
1"=1'-0"



A3 ALTERNATE ROOF PLAN
1/4" = 1'-0"



A ROOF ASSEMBLY CANOPY ROOF
3"=1'-0"

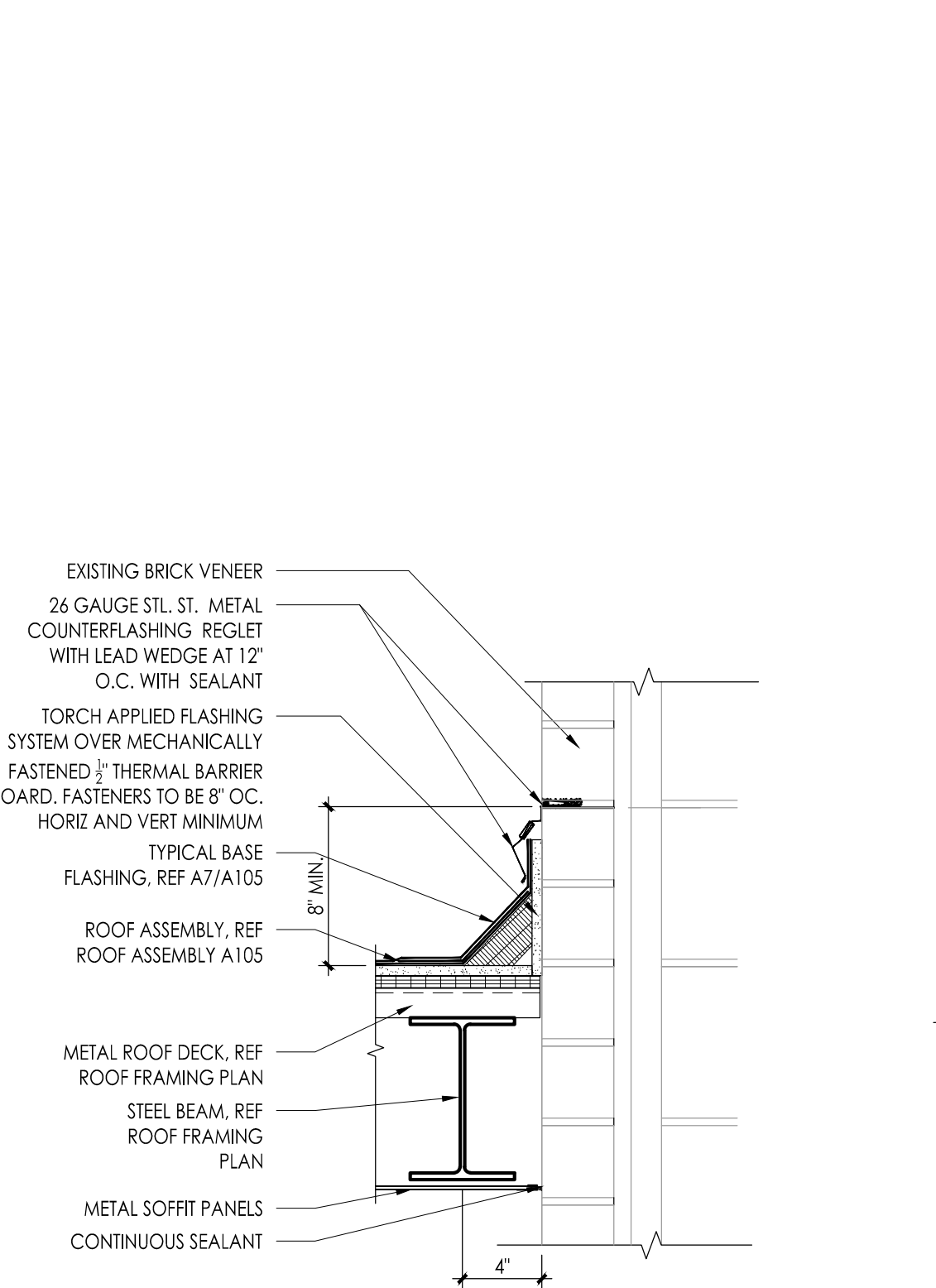
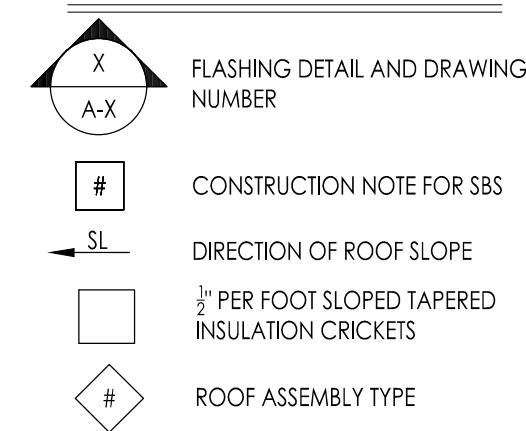
CONSTRUCTION/DEMOLITION NOTES - SBS

1. INSTALL ROOF PER ASSEMBLY NOTED ON PLAN AND SPECIFICATIONS. INSTALL WATER DIVERTING SADDLES/CRICKETS WHERE SHOWN ON PLANS WITH TAPERED INSULATION MINIMUM 1 1/2" PER FOOT SLOPE. SLOPE IS PERPENDICULAR TO SADDLE/CRICKET VALLEY LINE. DO NOT WALK OR RUN EQUIPMENT UPON NEWLY APPLIED ROOFING FLIES UNTIL THE ADHESIVE HAS SET UP TO ELIMINATE THE POTENTIAL FOR VOIDS.
2. INSTALL METAL EDGE SYSTEM. COLOR SELECTED BY ARCHITECT. INSTALL NEW WOOD BLOCKING, AS INDICATED IN ROOF EDGE DETAIL. EXTEND SMOOTH BASE PLY OF ROOF SYSTEM DOWN THE FACE OF WOOD AND OVER TOP OF FASCIA SQUARES METAL. INSTALL WATER CANT DAM AND STRIP WITH SMOOTH BASE PLY. INSTALL BASE FLASHING SYSTEM FROM THE ROOF UP AND OVER WATER CANT DAM. INSTALL METAL FASCIA AND EXTENDER SO THAT THE OUTSIDE VERTICAL LEGS OF THE PERIMETER METAL FLASHINGS EXTEND DOWN PAST THE TOP EDGE OF THE TOP OF METAL CLADDING BY 1". METAL EDGE SYSTEM MUST BE INCLUDED IN MANUFACTURER'S WARRANTY.
3. 1/2" PER FOOT SLOPED TAPERED INSULATION CRICKET
4. TERMINATION OF METAL COPING AT RISING WALL. REF A4/A105 FOR 'SIM' CONDITION
5. EXISTING RISING WALL

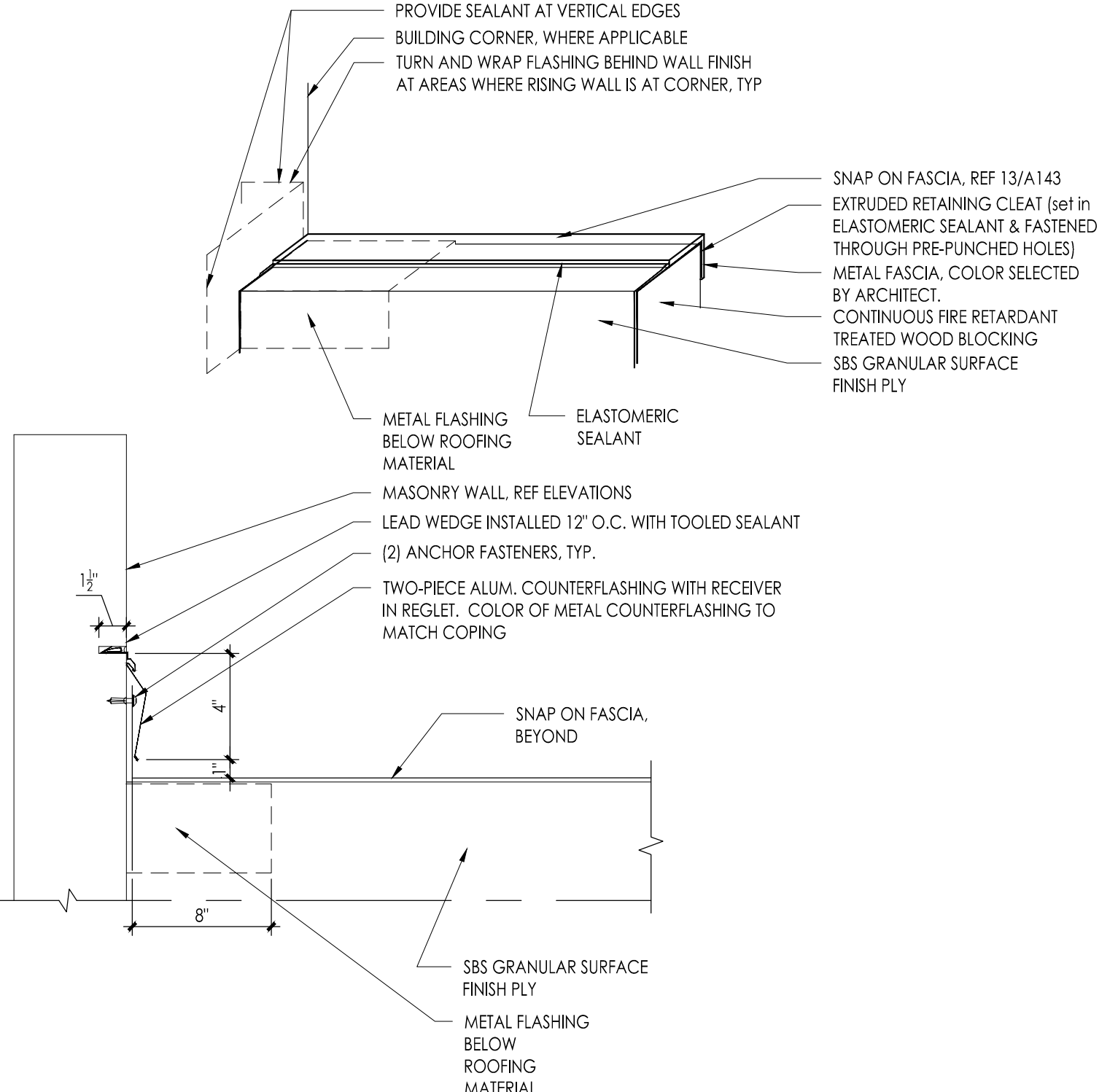
GENERAL CONSTRUCTION AND DEMOLITION NOTES:

- PROVIDE ROOFING MATERIALS THAT COMPLY WITH A CLASS "A" SYSTEM.
- ALL WORK PERTAINING TO THESE DRAWINGS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND WITH ALL AGENCIES HAVING JURISDICTION.
- INSTALL WATER DIVERTING CRICKETS AS SHOWN ON PLAN.
- IF WOOD BLOCKING SHOWN ON DRAWINGS IS DIAGRAMMATIC, PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING CONSTRUCTION IN THICKNESS AND HEIGHT TO MATCH THICKNESS OF INSULATION AND/OR TAPERED INSTALLATION AS RECOMMENDED BY ROOFING MANUFACTURER AND TO MAINTAIN A CONSTANT ROOF EDGE ELEVATION IN A HORIZONTAL PLANE UNLESS NOTED OTHERWISE.
- ALL CONDITIONS MEETING THE ROOF SURFACE PERPENDICULAR MUST HAVE A MINIMUM 8" FLASHING HEIGHT.
- DO NOT SCALE THE DRAWINGS.
- ALL LOW SLOPED ROOF AREAS ARE 1/2" PER FOOT IN THE FIELD AND 1/2" PER FOOT AT THE CRICKETS. SLOPE OF CRICKET IS PERPENDICULAR TO CRICKET VALLEY LINE.
- THE ROOFING CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL GOOD ROOFING PRACTICES INCLUDING THOSE SET FORTH BY THE ROOFING MATERIALS MANUFACTURER, THE SMACNA SHEET METAL MANUAL, FACTORY MUTUAL, UNDERWRITERS LABORATORIES, AND THE NRCA'S ROOFING AND WATERPROOFING MANUAL.
- NOT USED.
- PRIME ALL SURFACES WHICH ARE TO RECEIVE BITUMINOUS ROOFING.
- INSTALL ENVELOPE EDGES TO ELIMINATE THE POTENTIAL FOR BITUMEN AND ADHESIVE DRIPPAGE INTO THE BUILDING.
- ALL WOOD BLOCKING TO BE FRT. (FIRE RETARDANT LUMBER).
- CONTRACTOR SHALL AT ALL TIMES HAVE A FULL SET OF DRAWINGS AND SPECIFICATIONS ON ROOF TOP WHILE WORK IS IN PROGRESS.
- CONTRACTOR RESPONSIBLE TO RECTIFY ANY PONDING WATER ON FINISHED ROOF SURFACE THAT REMAINS AFTER 48 HOURS AT NO ADDITIONAL COST.
- DETAILS NOTED TYPICAL TYP IMPLY ALL SUCH CONDITIONS BE TREATED SIMILARLY.
- NOT USED.
- UNDER NO CIRCUMSTANCES SHALL TORCH BASE FLASHING BE DIRECTLY APPLIED TO A COMBUSTIBLE SURFACE. PROVIDE A THERMAL BARRIER BOARD, OR SBS BASE PLY AS A BASE FOR ALL TORCH APPLICATIONS TYPICAL.
- THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM THE DEMOLITION CAREFULLY CAUSING NO DAMAGE TO EXISTING MATERIALS. ANY EXISTING FINISHES OR CONSTRUCTION DAMAGED BY THE ROOFING CONTRACTOR WILL BE HIS RESPONSIBILITY TO REPAIR TO THE SATISFACTION OF THE ARCHITECT AT NO ADDITIONAL COST TO OWNER PRIOR TO THE COMMENCEMENT OF WORK. ARCHITECT & ROOFING CONTRACTOR WILL INSPECT PROJECT AND NOTE EXISTING DAMAGES TO FINISHES OR CONSTRUCTION.
- NOT USED.
- THE ROOFING CONTRACTOR SHALL COORDINATE ALL DUMPSTER STAGING AND TRUCK ROUTES WITH THE GC. THE ROOFING CONTRACTOR SHALL PROTECT ALL EXISTING PAVED AND PLANTED AREAS. THE GC SHALL REPAIR ANY PAVED OR PLANTED AREAS TO THE SATISFACTION OF THE OWNER. THE REPAIRS ARE TO INCLUDE BUT ARE NOT LIMITED TO, REPAIRING OF ASPHALT DRIVEWAYS AND PARKING LOTS, REGRADING AND SEEDING OF LAWN AND PLAYGROUND AREAS AND REPLACING DAMAGED PLANTS, SHRUBS, ETC. ALL REPAIRS AND RESTORATIONS SHALL BE DONE AT NO ADDITIONAL COST IN THE CONTRACT PRICE.
- ALL TAGGED DETAILS ARE TYPICAL FOR THE ITEM OR SYSTEM INDICATED. THE SCOPE OF WORK INDICATED AS PART OF THE TAG OR DETAIL MARK SHALL APPLY TO ALL OTHER SIMILAR SYMBOLS OR ITEMS.
- IF THE EXG BUILDING IS OCCUPIED, THE ROOFING CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF ALL PERSONS AT THE PROJECT SITE.
- FOR PURPOSES OF THIS PROJECT, REMOVE SHALL MEAN REMOVE AND DISPOSE OF SAME OFF SITE IN AN APPROVED AND LEGAL MANNER.
- THE TERM TYP FOLLOWING A NOTE, TAG, OR DETAIL FLAG INDICATED THAT ALL LIKE, SIMILAR, OR INDICATED ITEMS SHALL BE PROVIDED WITH THE SPECIFIED DETAIL, NOTE, OR SPECIFICATION.
- REFERENCE DETAILS A1/A105 AND A2/A105 FOR TYPICAL ADHESIVE BEAD DETAILS FOR THE FIELD AND EDGE OF ROOF.

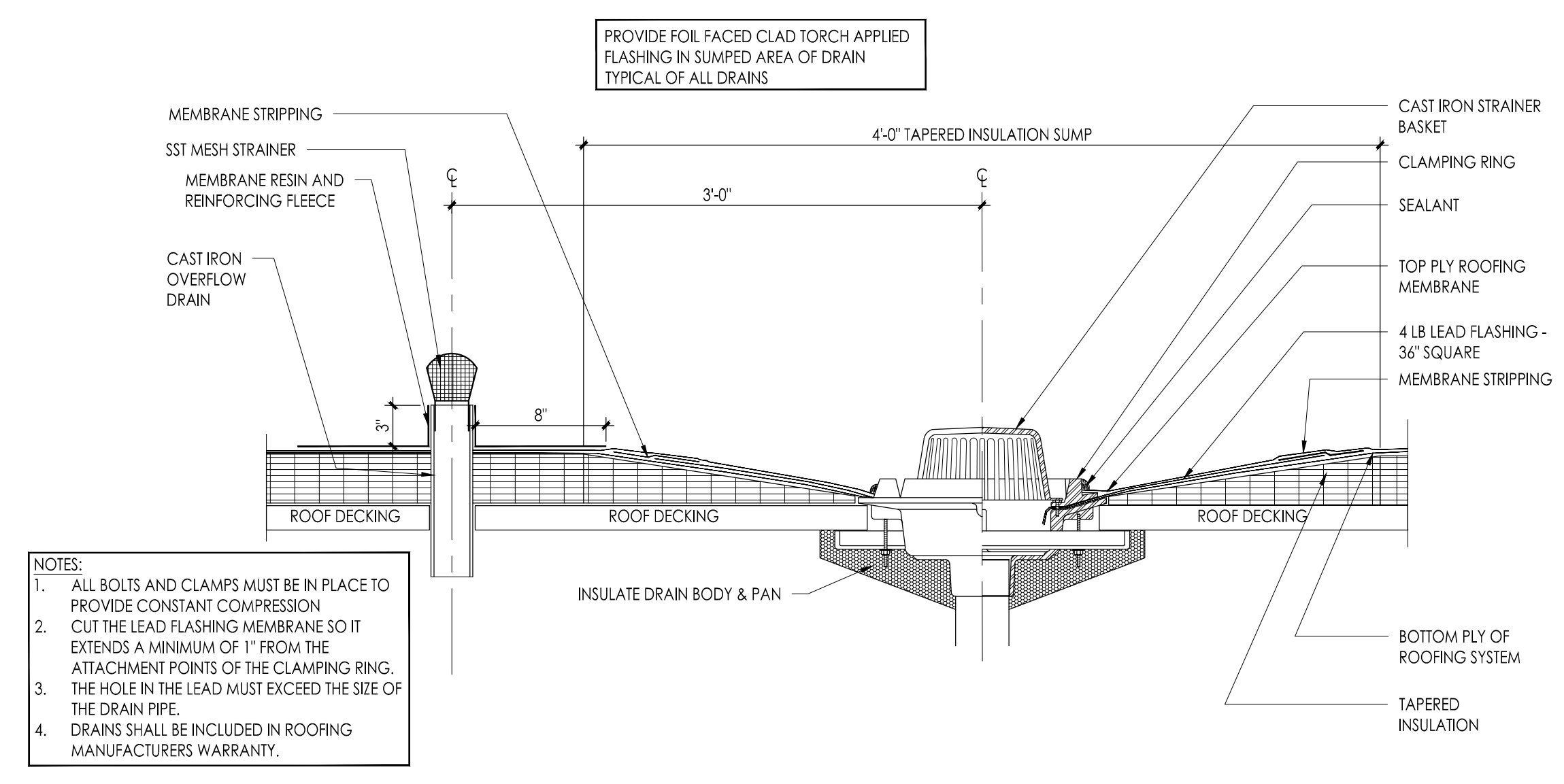
ROOF SYMBOLS



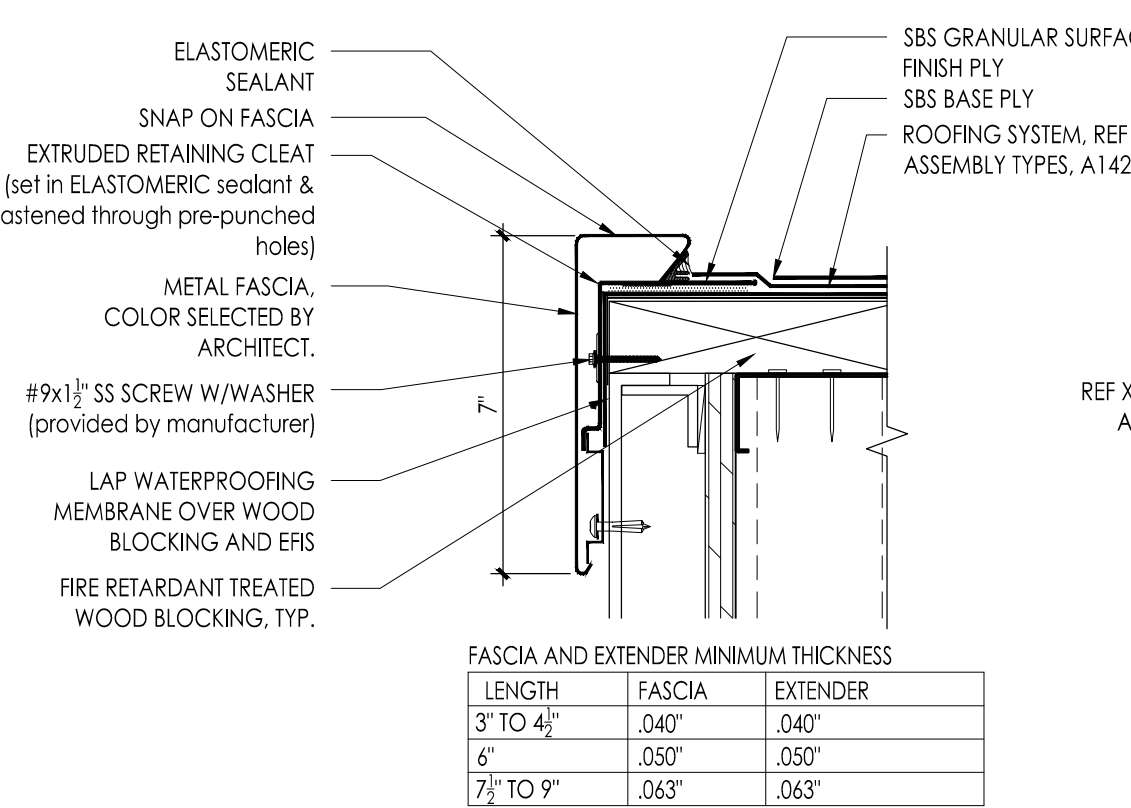
A3 TYPICAL FLASHING DETAIL
1-1/2" = 1'-0"



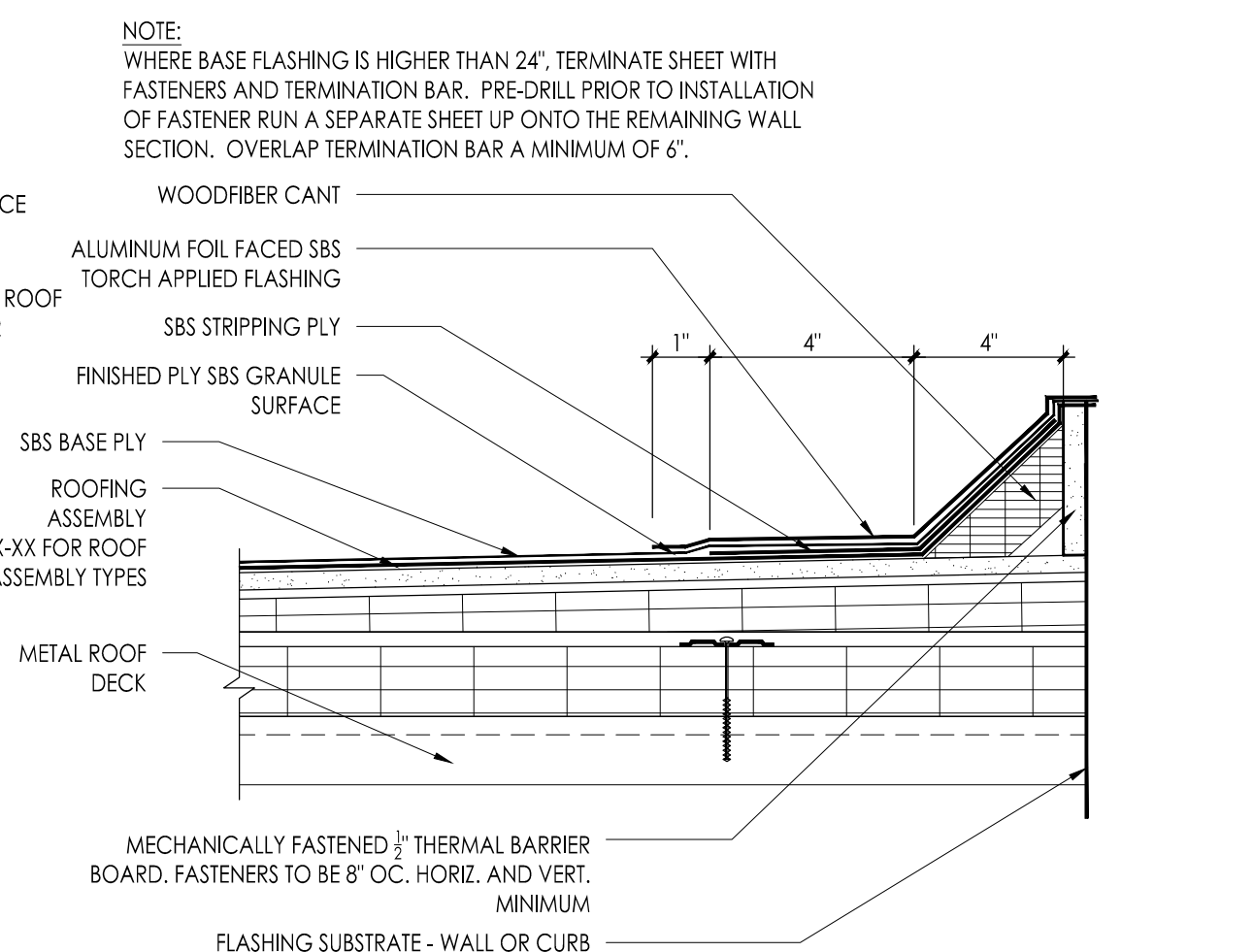
A4 TYPICAL METAL COPING COVER TERMINATION AT RISING WALL
Scale: 1-1/2" = 1'-0"



A5 TYPICAL NEW ROOF DRAIN & OVERFLOW DRAIN DETAIL
1-1/2" = 1'-0"



A6 TYPICAL COPING AT PARAPET WALL
Scale: 3" = 1'-0"



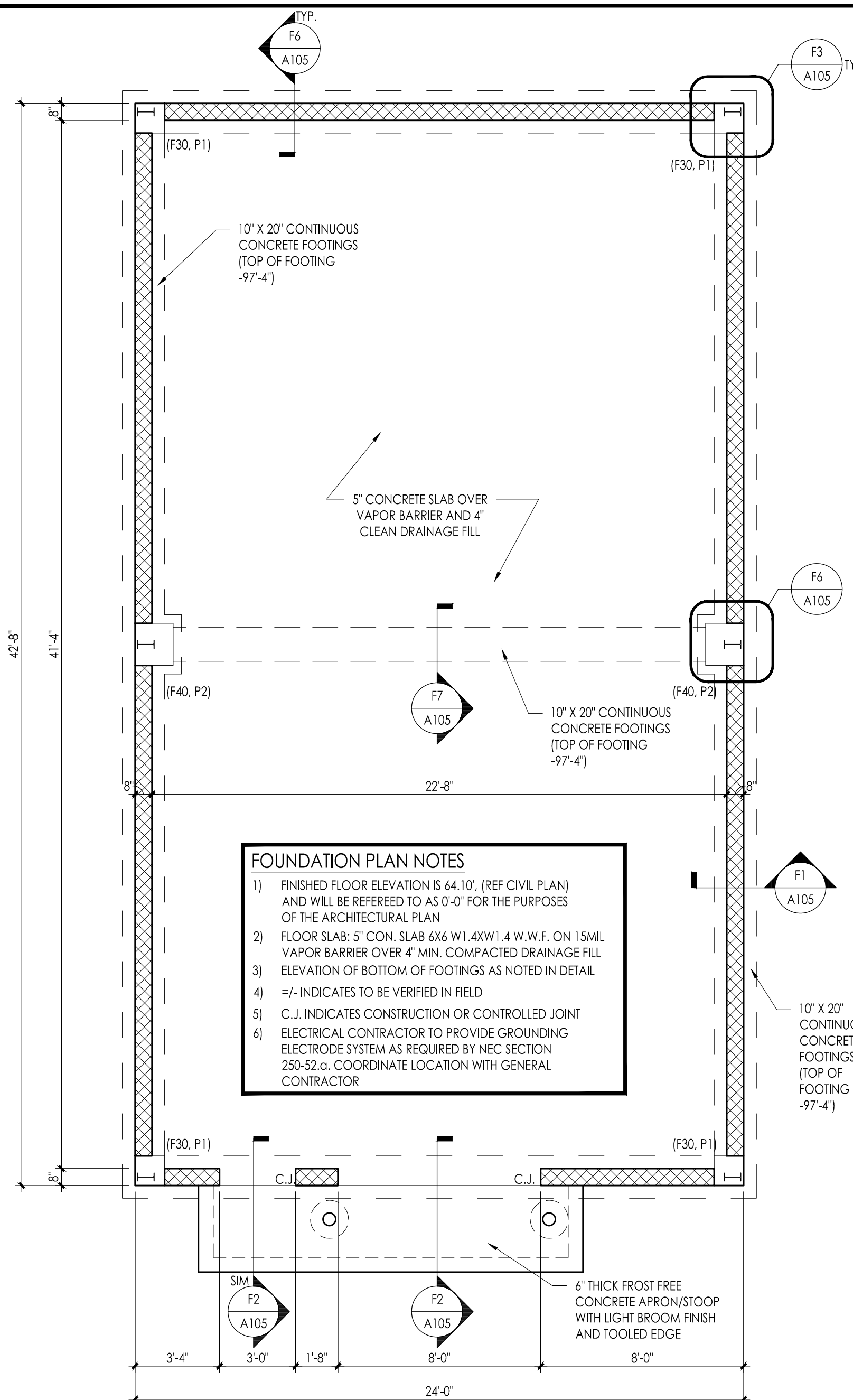
A7 TYPICAL BASE FLASHING DETAIL
Scale: 3" = 1'-0"

FVH D architects planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - North Chesham - Pennsylvania 17438

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: BO
Scale: AS NOTED
Drawing Name: ALTERNATE CANOPY ROOF PLAN NOTES AND DETAILS
Drawing Number: A105

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: BO
Scale: AS NOTED
Drawing Name: ALTERNATE CANOPY ROOF PLAN NOTES AND DETAILS
Drawing Number: A105

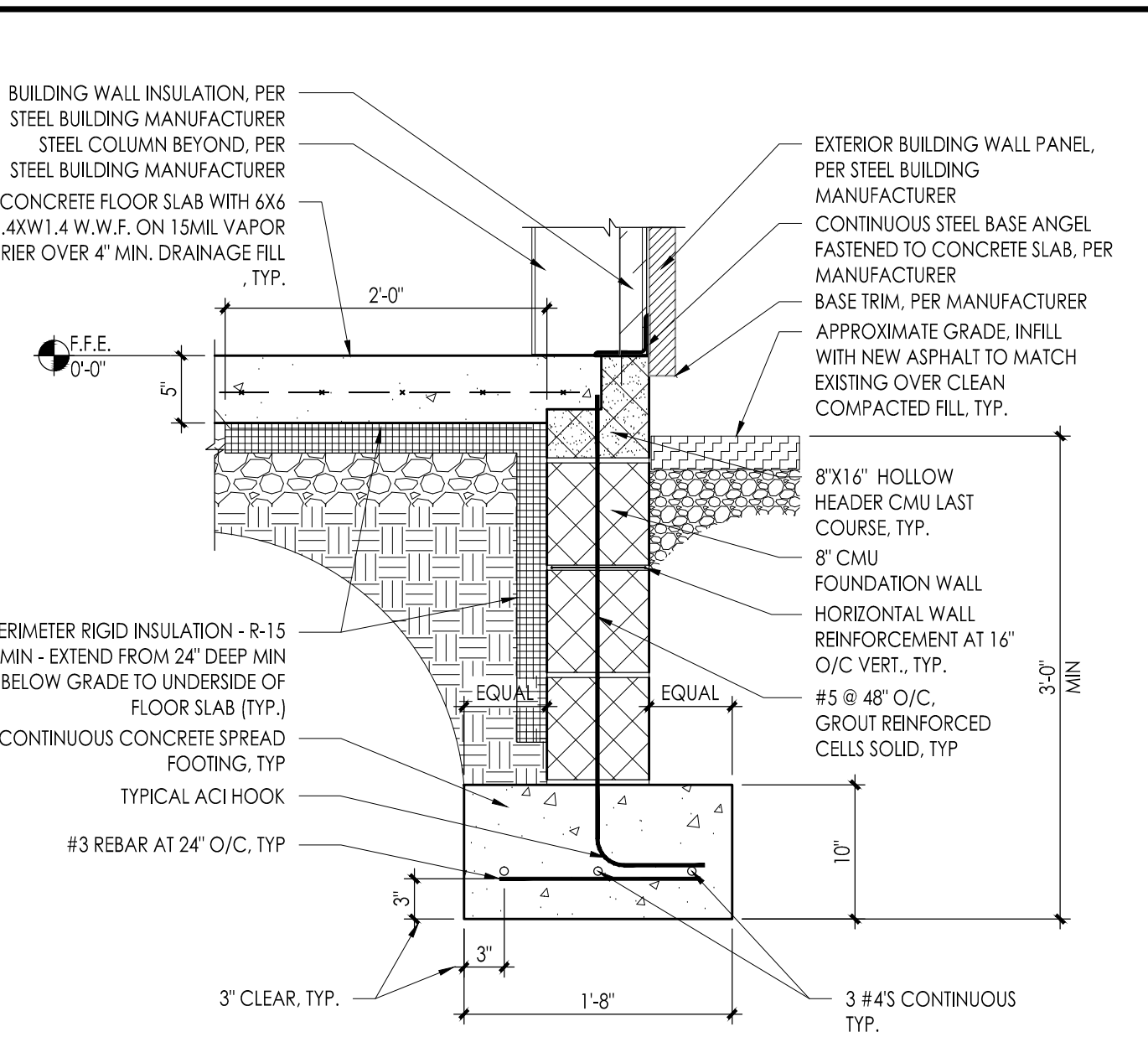
No.	Date	Description



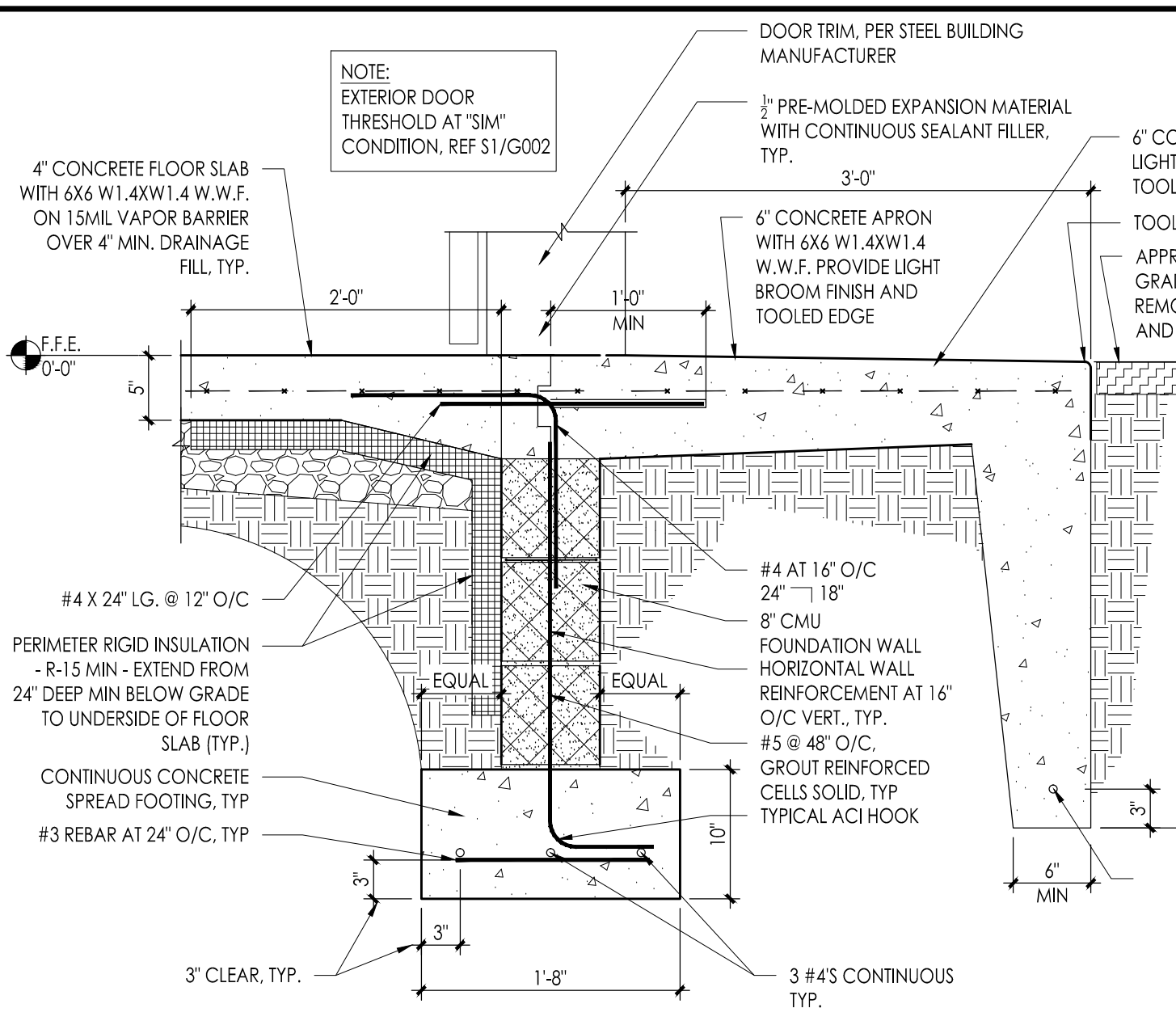
FOUNDATION PLAN NOTES

- 1) FINISHED FLOOR ELEVATION IS 64.10'. (REF CIVIL PLAN) AND WILL BE REFERRED TO AS 0'-0" FOR THE PURPOSES OF THE ARCHITECTURAL PLAN.
- 2) FLOOR SLAB: 5" CON. SLAB 6X6 W/ 4XW1.4 W.W.F. ON 15MIL VAPOR BARRIER OVER 4" MIN. COMPACTED DRAINAGE FILL.
- 3) ELEVATION OF BOTTOM OF FOOTINGS AS NOTED IN DETAIL.
- 4) -7- INDICATES TO BE VIEWED IN FIELD.
- 5) C.I. INDICATES CONSTRUCTION OR CONTROLLED JOINT.
- 6) ELECTRICAL CONTRACTOR TO PROVIDE GROUNDING ELECTRODE SYSTEM AS REQUIRED BY NEC SECTION 250-52.G. COORDINATE LOCATION WITH GENERAL CONTRACTOR.

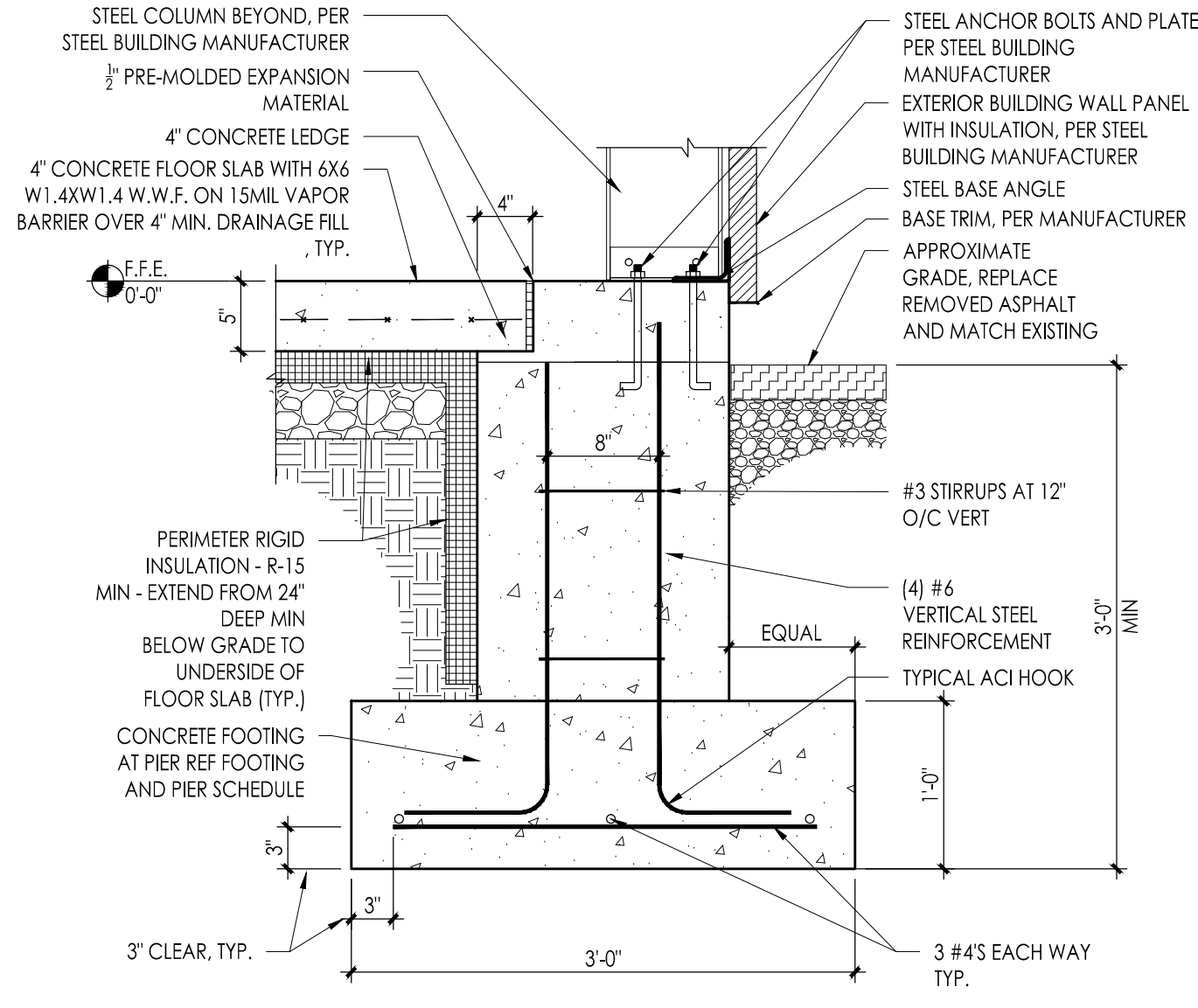
- FOUNDATION NOTES**
- 1) ALL FOOTINGS SHALL BEAR ON SOIL HAVING A MINIMUM SAFE BEARING CAPACITY OF 2.5 TONS PER SQUARE FOOT.
 - 2) DETAILS GIVING CORRESPOND TO THE COMPUTED BOTTOM OF FOOTINGS AND ARE MINIMUM DETAILS WHICH ARE NOT CONSIDERED AS LIMITED IN ANY WAY THE DEPTH REQUIRED TO REACH GOOD BEARING.
 - 3) NO FOOTING SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
 - 4) NO FILL OR BACK FILL SHALL BE PLACED OVER OR AGAINST AT SUCH TIME, OR IN A MANNER, WHICH WOULD ENDANGER THE STABILITY OR OTHERWISE DAMAGE SUCH WORK.
- CONCRETE**
- 1) ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE ACI BUILDING CODE.
 - 2) ALL CONCRETE, EXCEPT SLABS ON GRADE, SHALL ATTAIN 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. ALL CONCRETE FOR SLABS ON GRADE SHALL ATTAIN 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
- REINFORCING**
- 1) ALL REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST ACI CODE AND DETAILING MANUAL.
 - 2) ALL BARS SHALL BE ASTM A615 GRADE 60.
 - 3) WELDED WIRE FABRIC SHALL BE ASTM A185.
 - 4) CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES, UNLESS SHOWN OTHERWISE, SHALL BE:
 - A) UNIFORM SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER: 3"
 - B) BOTTOM SURFACE OF SLAB ON GRADE: 3"
 - C) FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER: #5 BARS OR SMALLER: 1"
 - 5) EXTERIOR WALL SURFACES: 2"
 - 6) ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY ARCHITECT BEFORE CONCRETE IS POURED.
 - 7) ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE SYSTEM AS REQUIRED BY NEC SECTION 250-52.G. COORDINATE WITH GENERAL CONTRACTOR.
- MASONRY**
- 1) ALL BLOCK WORK SHALL BE IN ACCORDANCE WITH LATEST IBC W/IN MODIFICATION AND OTHER APPLICABLE CODES.
 - 2) ALL BLOCK SHALL BE LIGHTWEIGHT AGGREGATE AND CONFORM TO ASTM C 90.
 - 3) MORTAR SHALL BE ASTM C 270, TYPE "M" FOR BELOW GRADE AND TYPE "M" OR "S" FOR ABOVE GRADE WORK.
 - 4) HORIZONTAL REINFORCING SHALL NO. 9 GAGE "TWO-WALL" OR EQUIVALENT.
 - 5) WHERE BLOCK FILL IS CALLED FOR ON DRAWINGS, USE TYPE "M" MORTAR OR CONCRETE WITH A COMPRESSIVE STRENGTH OF 2500 PSI IN ACCORDANCE WITH ASTM C 475.
 - 6) COORDINATE MASONRY WITH ALL TRADES REQUIRING ITEMS TO BE BUILT IN.
- MISCELLANEOUS**
- 1) CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SECTIONS AND ELEVATIONS ON JOB.
 - 2) CONSULT ALL OTHER DISCIPLINES DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF INSERTS, OPENINGS, SLEEVES, WASHES REVEALS, EQUIPMENT PADS AND OTHER PRODUCT REQUIREMENTS.



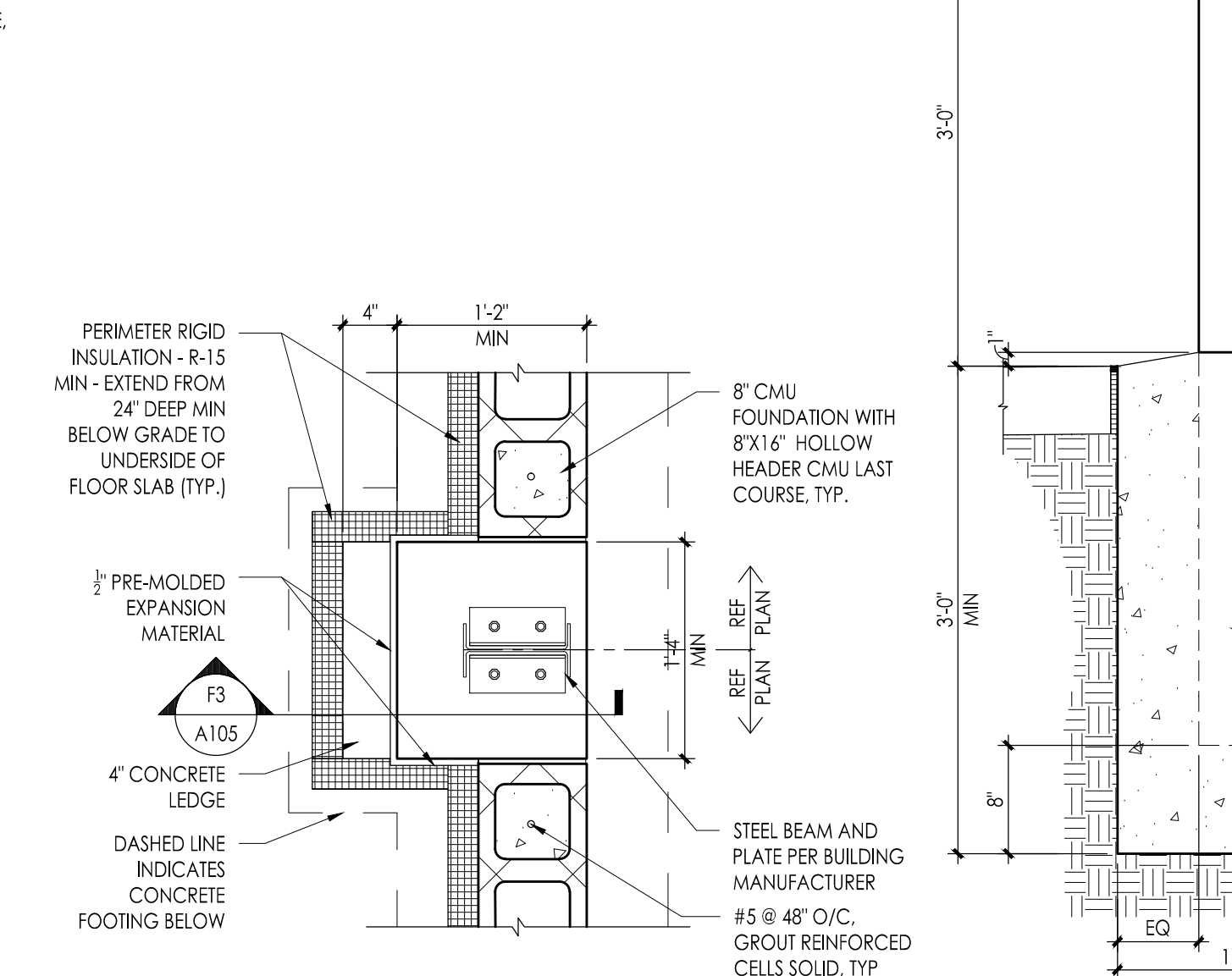
F1 TYPICAL FOUNDATION WALL SECTION
1" = 1'-0"



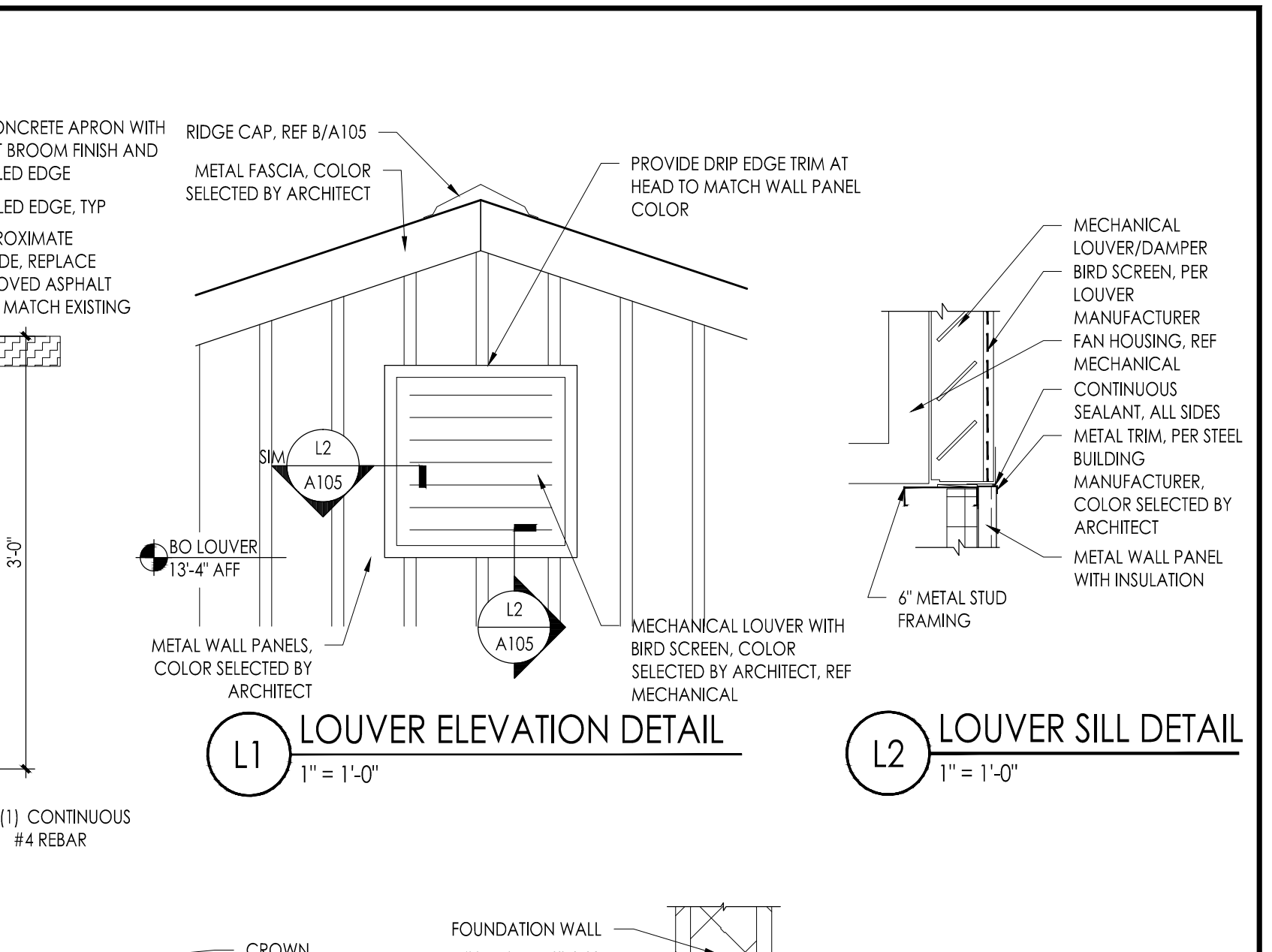
F2 TYPICAL FOUNDATION WALL SECTION
1" = 1'-0"



F3 TYPICAL CORNER PIER SECTION (F30)
1" = 1'-0"

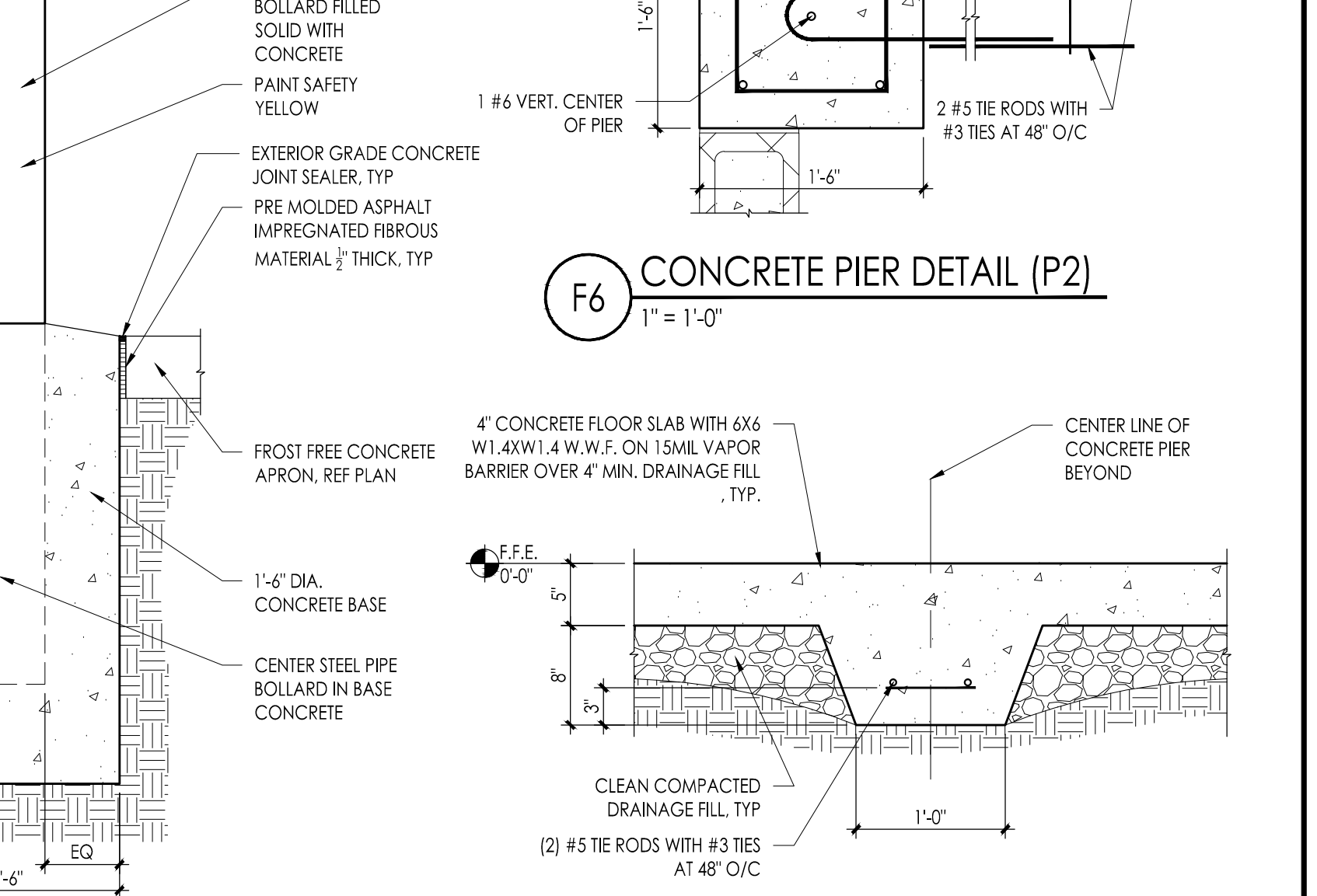


F4 CONCRETE PIER PLAN
1" = 1'-0"



L1 LOUVER ELEVATION DETAIL
1" = 1'-0"

L2 LOUVER SILL DETAIL
1" = 1'-0"



F5 BOLLARD DETAIL
1" = 1'-0"

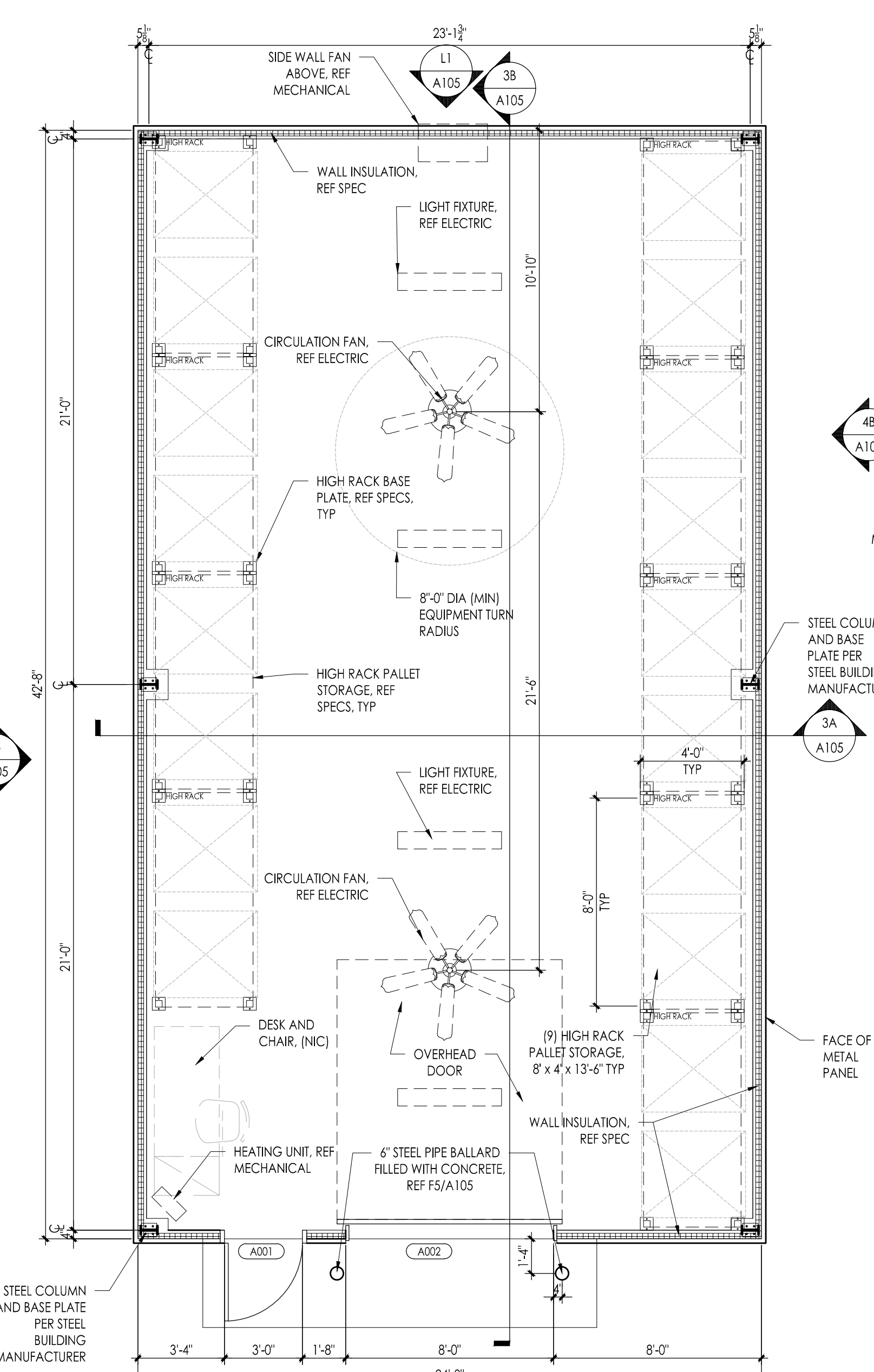
F6 CONCRETE PIER DETAIL (P2)
1" = 1'-0"

F7 THICKENED SLAB WITH TIE RODS
1" = 1'-0"

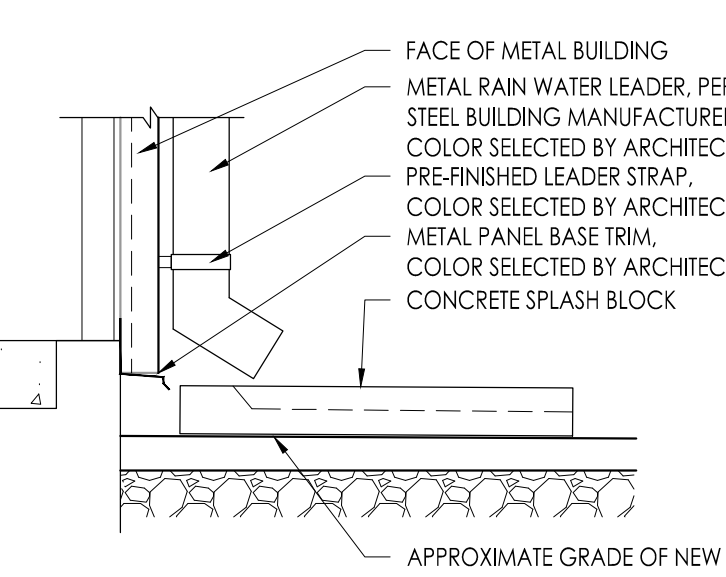
FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
F30	3'-0" X 3'-0" X 12"	(3) #4 E.W. BOT.
F40	4'-0" X 4'-0" X 12"	(4) #4 E.W. BOT.

PIER SCHEDULE		
MARK	SIZE	REINFORCEMENT
P1	18" X 18"	(4) #5 VERT.
P2	18" X 18"	(5) #5 VERT.

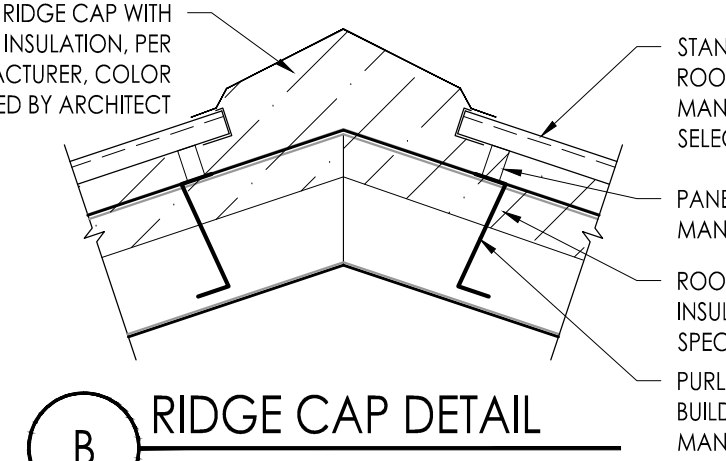
1 FOUNDATION PLAN
1/4" = 1'-0"



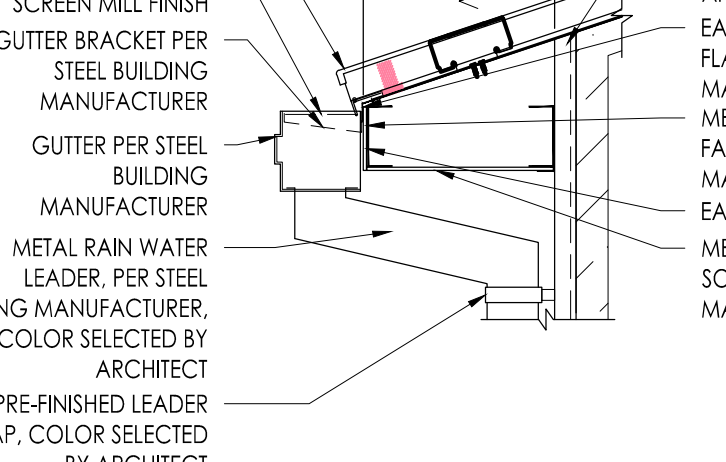
2 FLOOR PLAN
1/4" = 1'-0"



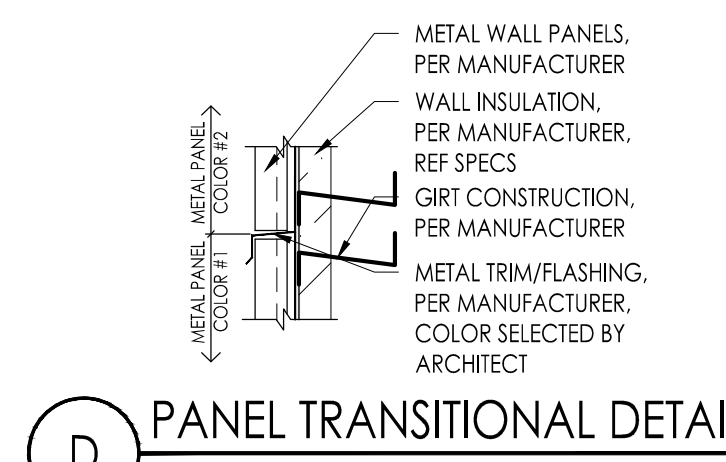
A SPLASH BLOCK DETAIL
1" = 1'-0"



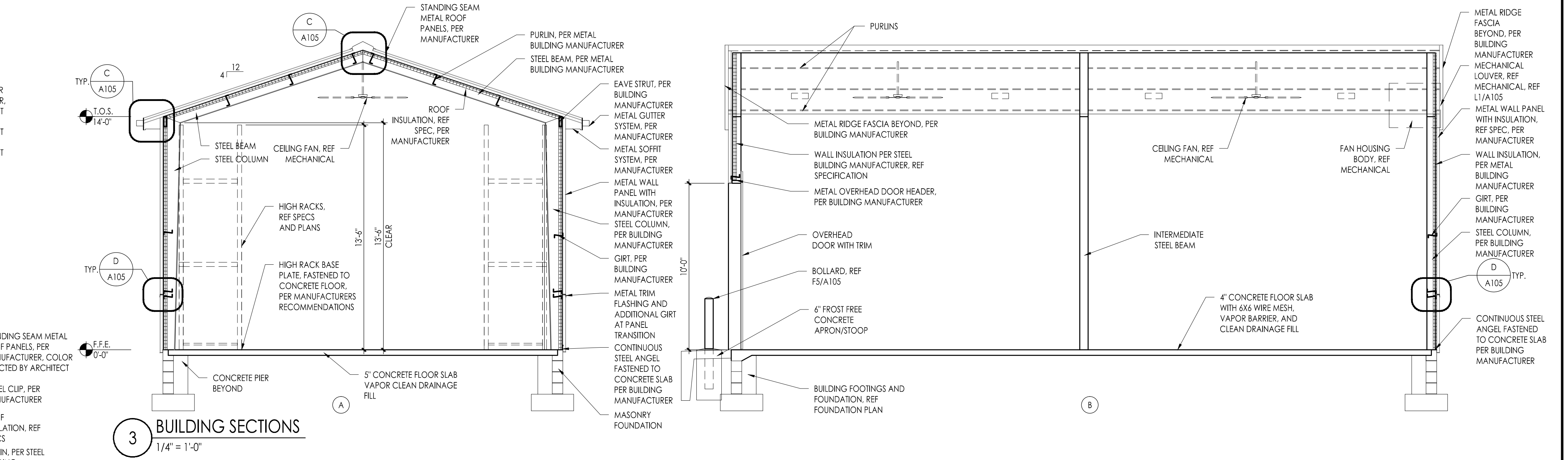
B RIDGE CAP DETAIL
1" = 1'-0"



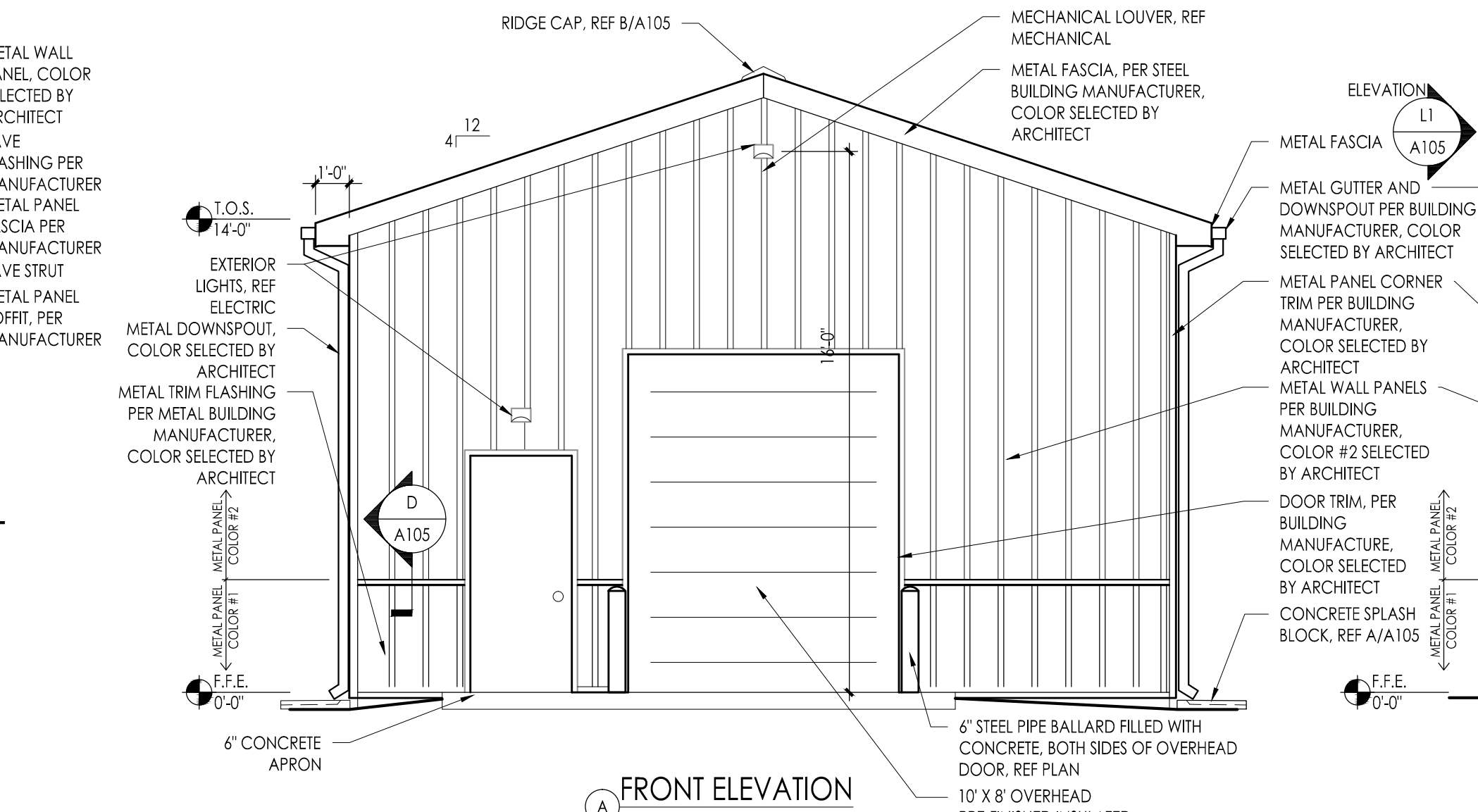
C ROOF EDGE DETAIL DETAIL
1" = 1'-0"



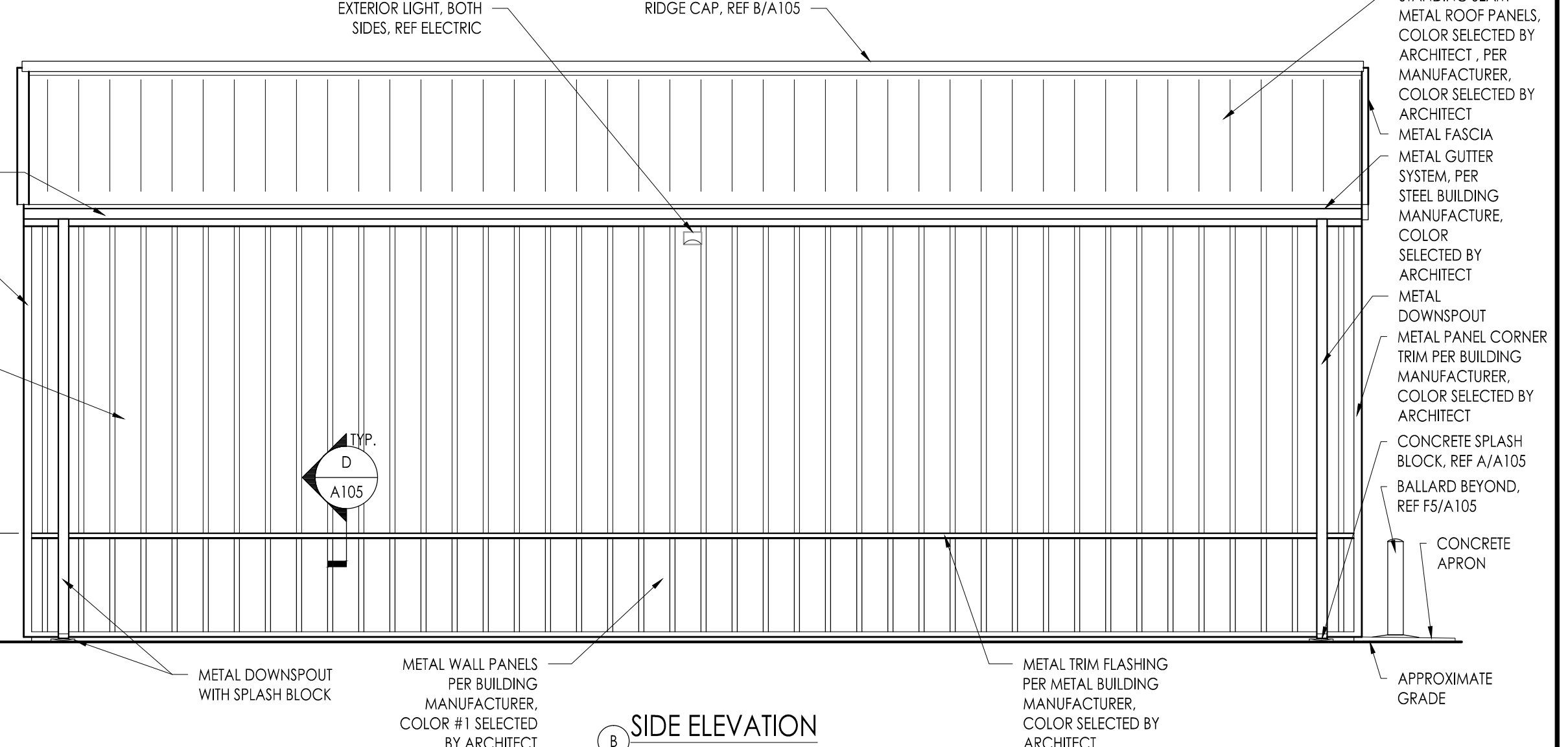
D PANEL TRANSITIONAL DETAIL
1" = 1'-0"



3 BUILDING SECTIONS
1/4" = 1'-0"



4 METAL BUILDING ELEVATIONS
1/4" = 1'-0"



ELEVATION L1
1" = 1'-0"

FWHD architects planners
Frakay Veisz Hopkins Dutrie P.C.
1515 Lower Ferry Road - Trenton, New Jersey, 08628
Compton: 609-987-1100
Philadelphia: 215-261-1100
Pennsylvania: 140 Whittaker Ave - Mont Clear - Pennsylvania 19438

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330
Project Number: 4937C
Project Date: 02.15.2019
Checked By: JJV
Drawn By: BO
Scale: AS NOTED
Drawing Name: PLANS SECTIONS DETAILS AND NOTES
Revisions: No. Date Description
Drawing Number: A105

EQUIPMENT SCHEDULE

SHANER ELEMENTARY SCHOOL

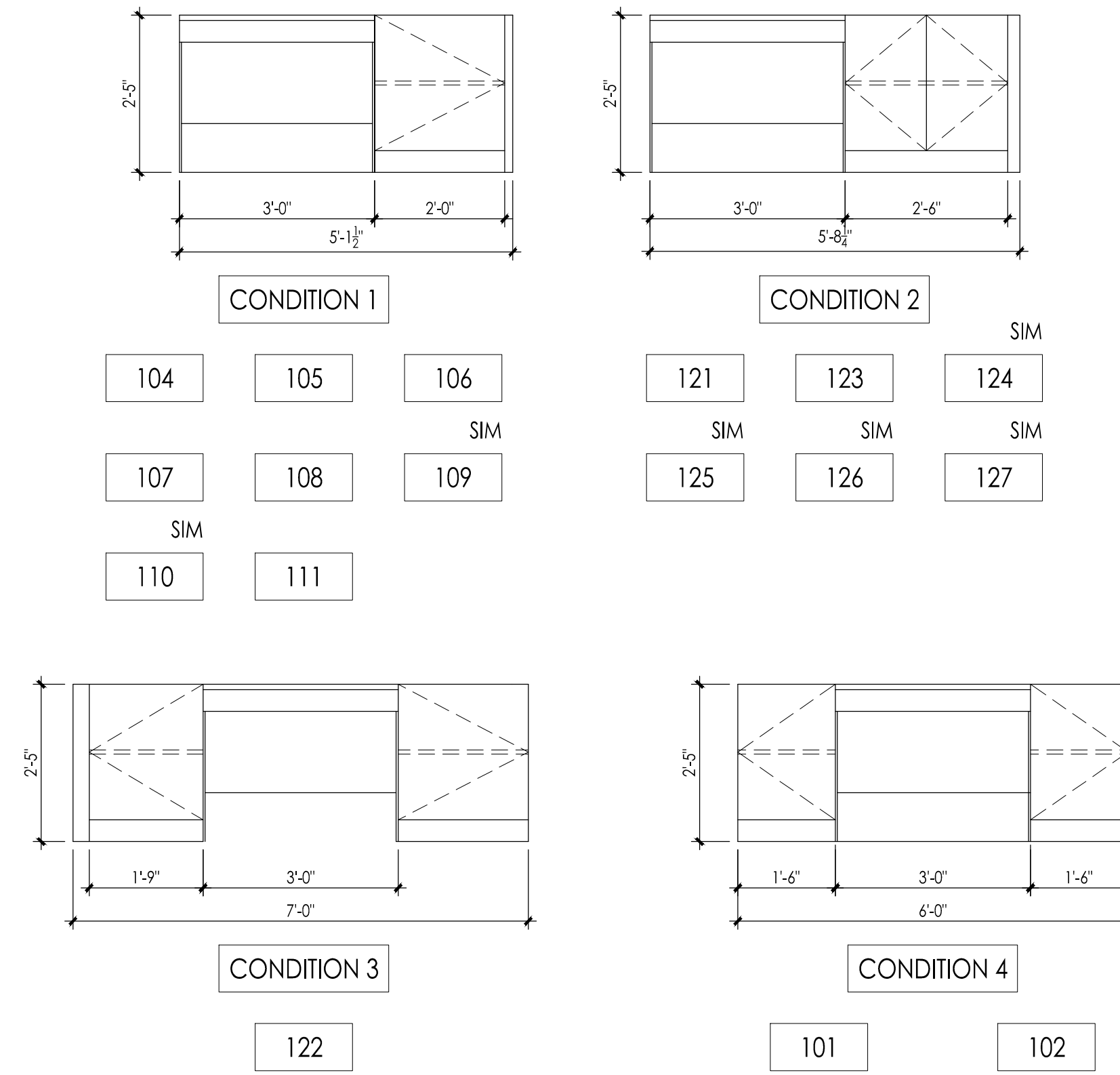
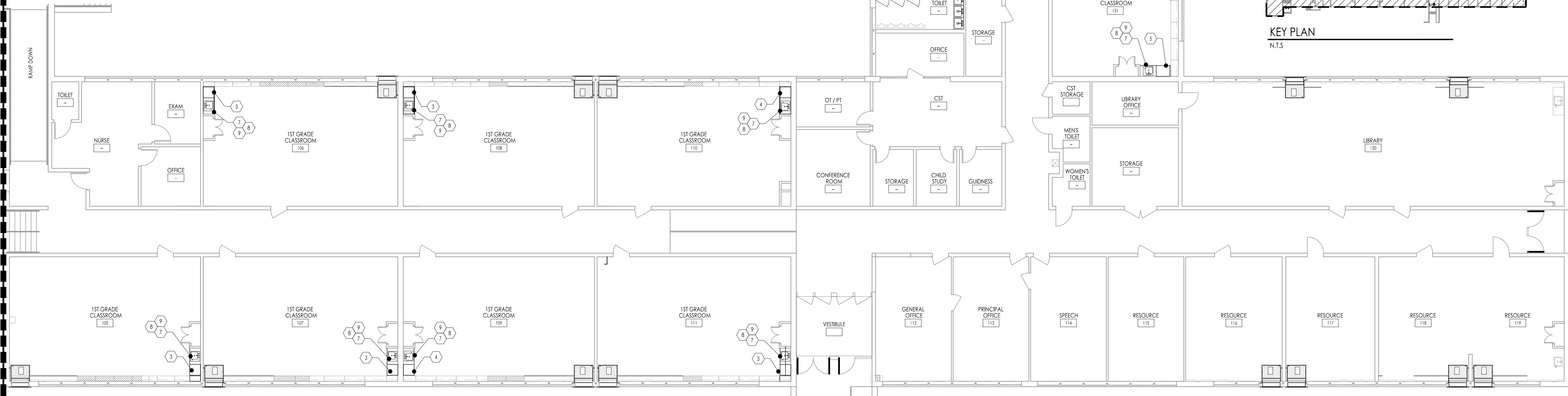
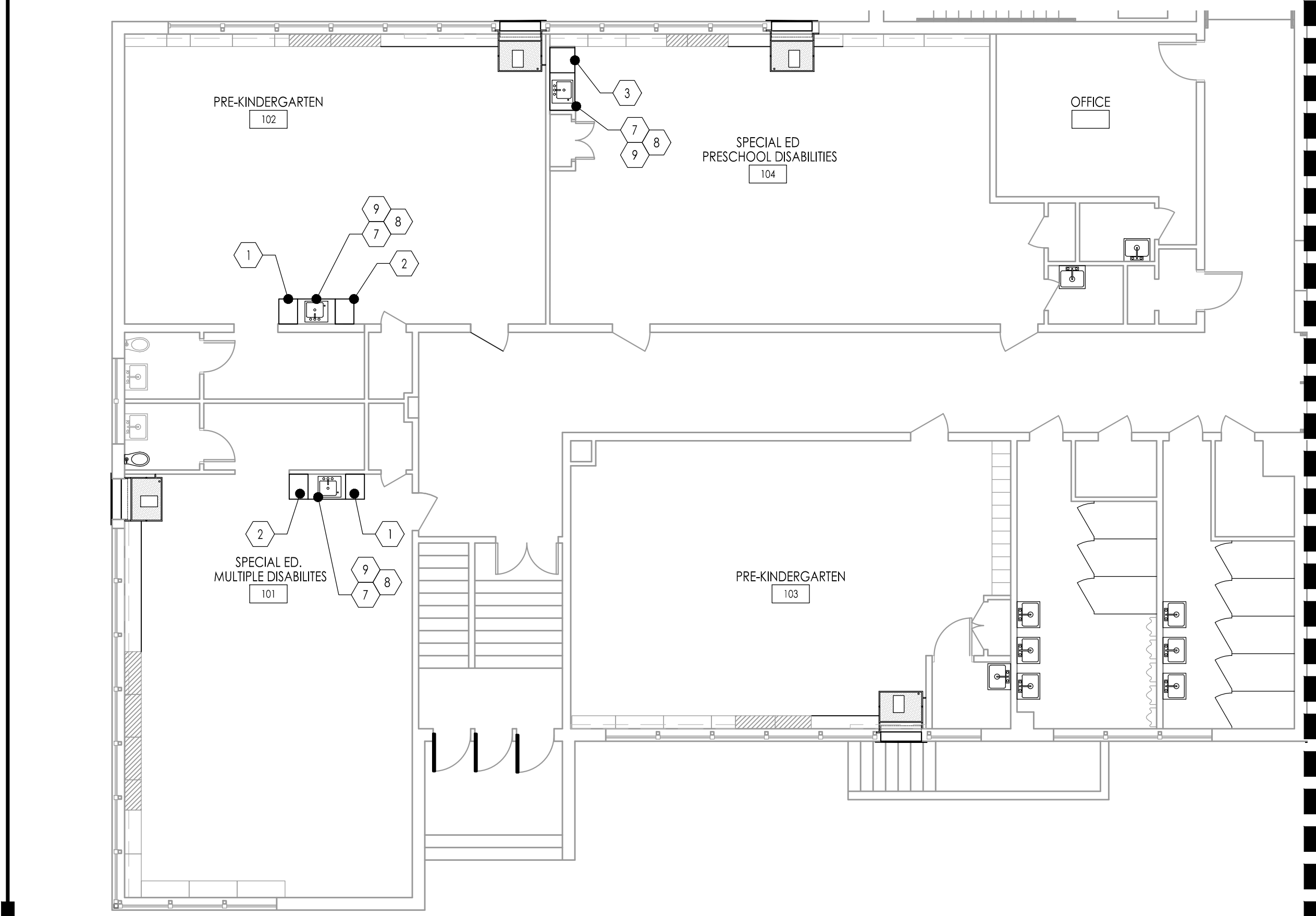
CONTRACT	ITEM	MANUFACTURER	CATALOG #	DESCRIPTION	WIDTH	DEPTH	HEIGHT	REMARKS
X	1	CAMPBELL-RHEA	2434	BASE CAB.- DOOR HINGED RIGHT	18"	22 1/2"	29"	n/a
X	2	CAMPBELL-RHEA	2434	BASE CAB.- DOOR HINGED LEFT	18"	22 1/2"	29"	n/a
X	3	CAMPBELL-RHEA	2438	BASE CAB.- DOOR HINGED RIGHT	24"	22 1/2"	29"	n/a
X	4	CAMPBELL-RHEA	2438	BASE CAB.- DOOR HINGED LEFT	24"	22 1/2"	29"	n/a
X	5	CAMPBELL-RHEA	2442	BASE CAB.	30"	22 1/2"	29"	n/a
X	6	CAMPBELL-RHEA	2434	BASE CAB.- DOOR HINGED LEFT	21"	22 1/2"	29"	n/a
X	7	CAMPBELL-RHEA	70738	B/W KNEESPACE RAIL	35"	22 1/2"	29"	TOP OF RAIL 29" AFF. MIN. 24" H. KNEE CLEARANCE. INCL. 87/60 CLOSURE PANEL
X	8	CAMPBELL-RHEA	87/60	CLOSURE PANEL	33"	22 1/2"	29"	TO BE 29" HIGH
X	9	JUST	CRB2022B	B/W STAINLESS STEEL SINK W/ BUBBLER	22"	20"	6"	* CRB-ADA-2022-A-GR-SEE SINK NOTE 'X' BELOW

SINK NOTE 'X': (ITEM #xxx)
 CRB-ADA-2022-A-GR JUST STAINLESS STEEL SINK W/ BUBBLER COMBINATION, "THE ACADEMIC GROUP A" SERIES, TYPE 304, LEDGE TYPE, FAUCET LEDGE REAR, BUBBLER LEDGE RIGHT, SINGLE COMPARTMENT, SELF-RIM, 18 GAUGE STAINLESS STEEL, 22" X 20" X 6" DEEP, SINK UNDERCOATED W/ SOUND DEADENING MATERIAL, FURNISH COMPLETE WITH JUST FAUCET (#J-1174-K3) CONCEALED HOT & COLD WATER MIXING FAUCET WITH SWIVEL GOOSENECK SPOUT, AERATOR & WRIST BLADE HANDLES. INCLUDE ONE JUST BUBBLER (#JB85) W/ SELF-CLOSING LEVER HANDLE. INCLUDE ONE JUST OFFSET DRAIN ASSEMBLY (#J-ADA-35-FS) W/ DRAIN INSULATING KIT (#J-ADA-150), JUST STAINLESS STEEL FLAT STRAINER & 4" LONG STAINLESS STEEL TAILPIECE (#J-SS-5F).
 SINK, FAUCET, STRAINER AND TAILPIECE TO BE SUPPLIED BY EQUIPMENT CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAPS, VALVES, WASTE LINES, ETC. AS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. THE PLUMBING CONTRACTOR SHALL MAKE THE FINAL PLUMBING CONNECTIONS REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL. SEE GENERAL CASEWORK NOTES # 6 & 7.

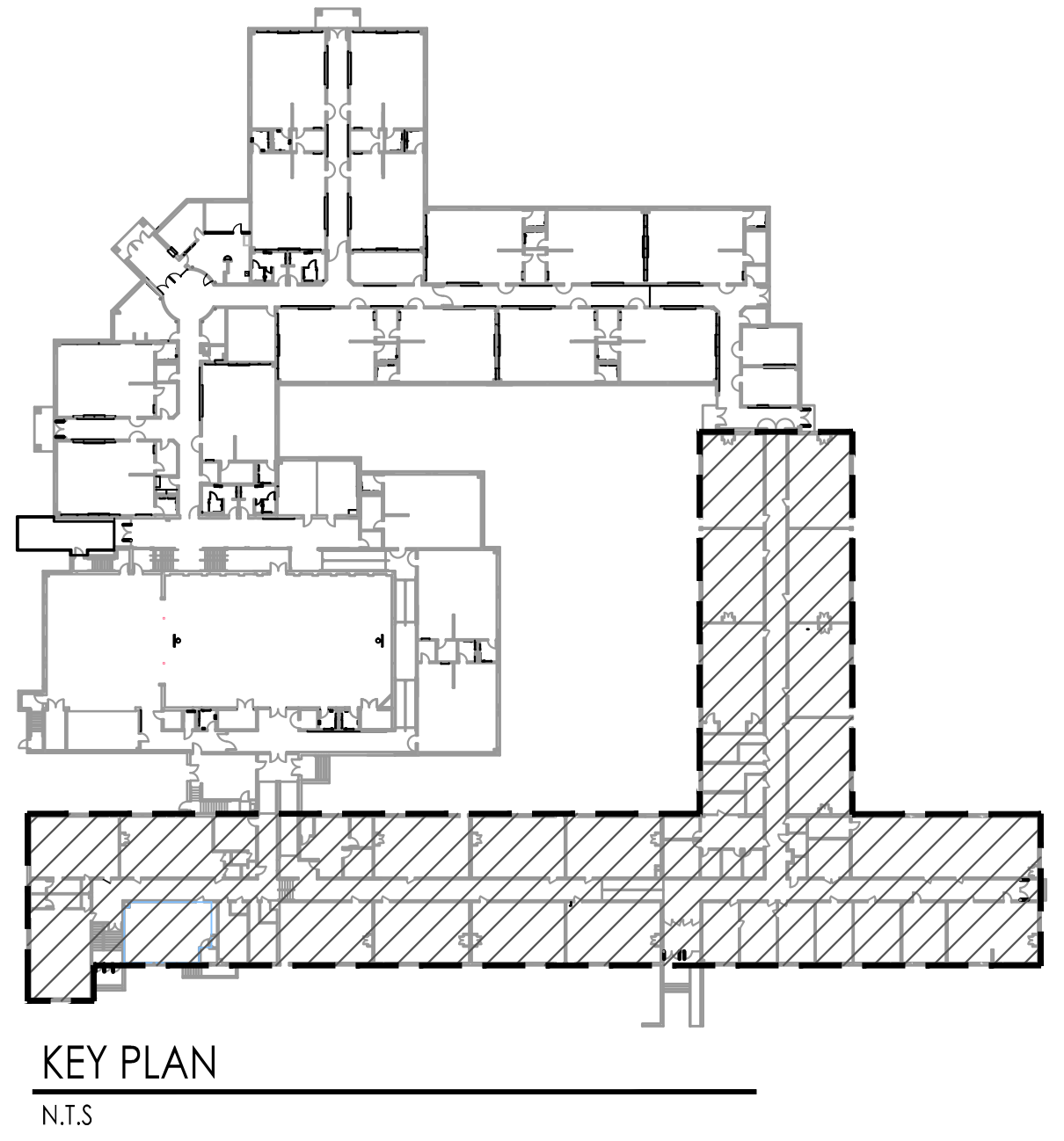
NOTE:
 ALL FURNITURE AND EQUIPMENT WITHOUT THE SYMBOL OR MARKED (N.I.C.) IS NOT IN CONTRACT UNLESS NOTED OTHERWISE. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT MARKED WITH THE SYMBOL.

GENERAL CASEWORK NOTES:

- CATALOG NUMBERS REFER TO MOST CURRENT CAMPBELL RHEA CASEWORK CATALOG UNLESS OTHERWISE NOTED. FOR REFERENCE ONLY.
- ALL CASEWORK DOORS AND DRAWERS TO HAVE LOCKS KEYS ALIKE PER ROOM AND MASTER KEYS.
- ALL TOPS SHALL BE PLYWOOD, 1" TOTAL THK, WITH PLASTIC LAMINATE COVERING ON ALL EXPOSED SURFACES (UNLESS NOTED OTHERWISE).
- ALL BACKSPLASHES SHALL BE 3/4" PLYWOOD WITH PLASTIC LAMINATE COVERING ON ALL EXPOSED SURFACES (UNLESS NOTED OTHERWISE).
- ALL FURNITURE AND EQUIPMENT SHOWN DOTTED AND/OR INDICATED AS (N.I.C.) IS NOT IN CONTRACT.
- THE CASEWORK & EQUIPMENT SUB-CONTRACTOR(S) SHALL TURN OVER TO THE PLUMBING AND ELECTRICAL PRIME CONTRACTOR(S) IN A PACKAGE ALL SINKS, FIXTURES, FAUCETS, TAILPIECES, STRAINERS, GAS COCKS, ETC. AND ELECTRICAL DEVICES, NIPPLES AND LOCKNUTS, ETC., FOR INSTALLATION AND FINAL CONNECTION.
- THE CASEWORK AND EQUIPMENT SUB-CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST AND A DESIGNATED SITE LOCATION FOR THE TRANSFER OF THE MATERIALS REFERENCED IN NOTE 6 TO THE PLUMBING AND ELECTRICAL PRIME CONTRACTORS. THE LIST SHALL HAVE A DESCRIPTION OF THE ITEMS AND QUANTITY ALONG WITH A SIGN-OFF LINE FOR THE PLUMBING AND ELECTRICAL PRIME CONTRACTORS. A COPY OF THE SIGNED LIST IS TO BE SUBMITTED TO THE ARCHITECT / OWNER PRIOR TO BILLING FOR THIS EQUIPMENT.
- EQUIPMENT SUB-CONTRACTOR SHALL MAKE SINK CUT-OUTS.
- ALL DUPLEX OUTLETS SHALL BE G.F.C.I. UNLESS NOTED OTHERWISE.
- SINK CABINETS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ADJACENT CABINETS.
- ALL CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IN WRITTEN FORM OF ANY DISCREPANCIES.
- PROVIDE ALL FILLERS AS REQUIRED. FILLERS AT BASE CABINETS SHALL BE AT FRONT OF CABINET AND COUNTERTOP SHALL BE CONTINUOUS OVER FILLER PANEL. FILLERS AT TALL CABINETS SHALL BE AT FRONT AND TOP OF CABINET. FILLERS AT WALL CASES SHALL BE AT FRONT, TOP AND BOTTOM OF CABINET. FINISH TO MATCH CASEWORK.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL CLAY TRAPS ON SINKS IN ART CLASSROOM AND SHALL MAKE FINAL CONNECTIONS TO ALL WASTE/VENTS, WATER LINES ETC. AS REQUIRED TO MAKE SYSTEM FULLY FUNCTIONAL.
- ALL PRINTERS AND COMPUTERS ARE N.I.C. (TYPICAL)
- RUBBER BASE ON ALL CASEWORK BY G.C. (TYPICAL)



X ELEVATION-CASEWORK
 1/2" = 1'-0"



KEY PLAN
 N.T.S.

SINK REPLACEMENT
 Scale: 1/8" = 1'-0"

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B
 Project Date: 02.15.2019
 Checked By: JJV
 Drawn By: KM
 Scale: AS NOTED

Drawing Name: CLASSROOM FLOOR PLAN SINK REPLACEMENT

Revisions:

No.	Date	Description

Drawing Number: A106

Company: FVHD architects planners
 Fraytak Veisz Hopkins Dutrie P.C.
 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - Mont-Claire - Pennsylvania 17433

Project Architect: JOHN J. VEISZ, AIA, CSFA
 WILLIAM D. HOPKINS III, AIA, LEED AP
 GEORGE K. DUTRIE JR., AIA, PP



DEMOLITION / RENOVATION NOTES - WILLIAM DAVIES MIDDLE SCHOOL:

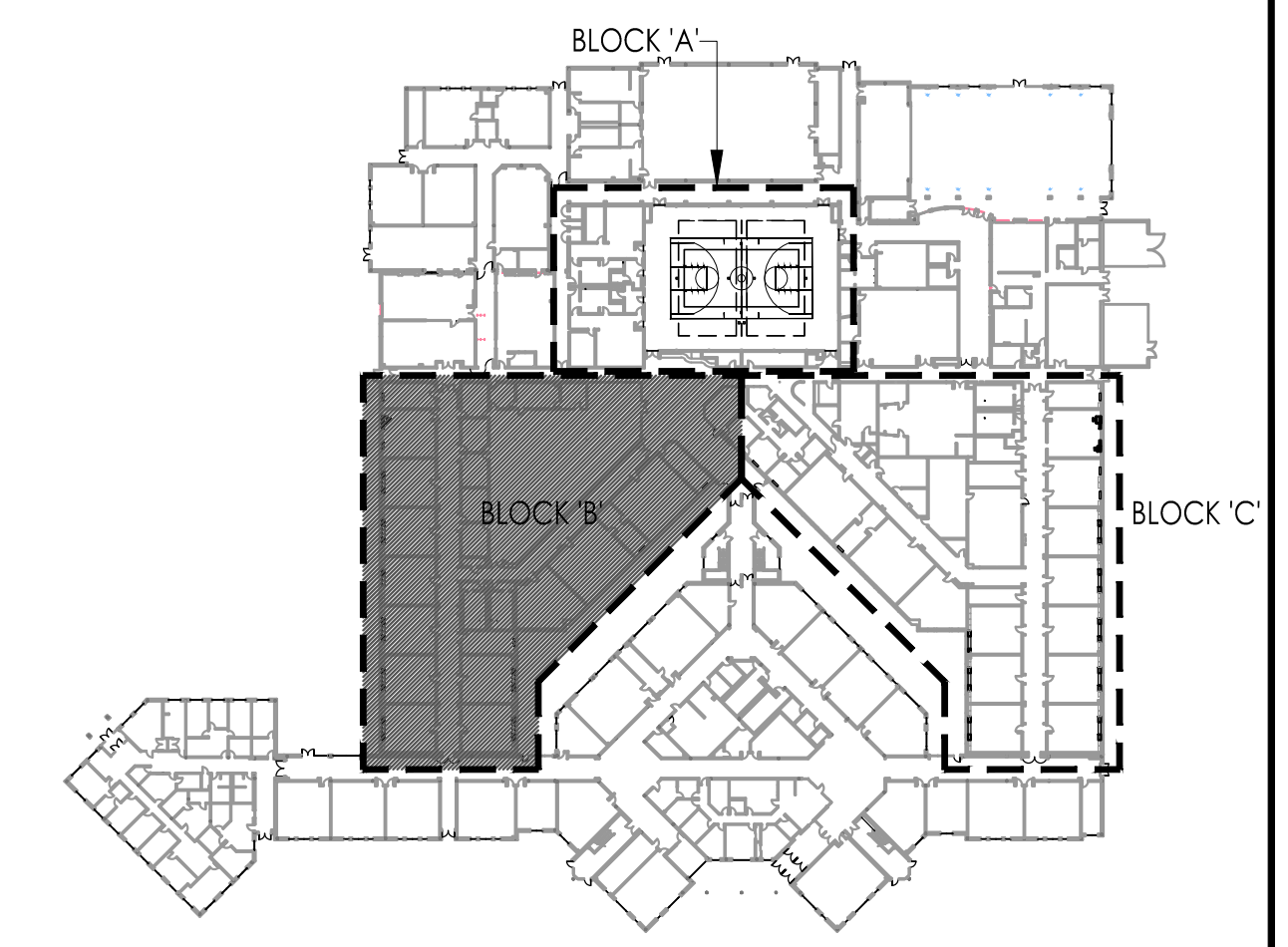
REFER TO MECHANICAL / ELECTRICAL FOR ADDITIONAL DEMO / CONSTRUCTION NOTES AND PROCEDURES.

SEE GENERAL NOTES ON DEMOLITION ON DRAWING G002.
 THESE NOTES ARE SPECIFIC TO THE WORK AT WILLIAM DAVIES MIDDLE SCHOOL, AND SHALL NOT BE APPLIED TO WORK AT OTHER SCHOOLS IN THE PROJECT. ALL WORK DESCRIBED IN THESE NOTES IS THE RESPONSIBILITY OF THE GENERAL PRIME CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

- 1. NOT USED
- 2. NOT USED
- 3. EXISTING UNIT VENTILATOR WILL BE DE-ENERGIZED BY THE ELECTRICAL CONTRACTOR, DISCONNECTED AND REMOVED BY THE HVAC CONTRACTOR. EACH CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING ADJACENT CONSTRUCTION AND FINISHES TO REMAIN. REPAIR OR REPLACEMENT OF DAMAGED FINISHES WILL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR.
- 4. THE GENERAL CONTRACTOR WILL REMOVE EXISTING CASEWORK, FILLER PANELS AND COMPONENTS, STORE AND PROTECT FOR REINSTALLATION AS PER TYPICAL CONDITIONS DELINEATED ON DRAWINGS TO ACCOMMODATE HVAC EQUIPMENT RENOVATIONS. COORDINATE RELOCATION OF EXISTING CASEWORK WITH NEW HVAC UNIT. ALL EXPOSED SURFACES ARE TO BE FINISHED WITH NEW MATERIALS TO MATCH EXISTING FINISHES INCLUDING PLUM, VCT FLOOR AND PAINT. ALL WORK INCLUDING SELECTIVE REMOVAL, RELOCATION, PATCHING, REPAIR AND REINSTALLATION OF THE CASEWORK IS BY THE GENERAL CONTRACTOR.
- 5. WHERE INDICATED, REMOVE, STORE AND PROTECT EXISTING CASEWORK TOP, CASEWORK AND FILLERS TO ACCOMMODATE RENOVATIONS. COORDINATE EXTENT OF CASEWORK REMOVALS AND RELOCATIONS / REINSTALLATIONS WITH REQUIREMENTS OF NEW HVAC SCOPE WORK. MODIFY AND REINSTALL FILLER PANELS AND COUNTER TOPS INCLUDING NEW END PANELS TO ACCOMMODATE NEW CONDITION, PATCH AND REPAIR ALL DAMAGES BY REMOVAL AND INSTALLATION TO MATCH EXISTING IN ALL RESPECTS.
- 6. EXISTING HVAC GRILL, HVAC UNIT AND ALL RELATED WORK IS TO BE REMOVED BY THE HVAC CONTRACTOR. THE GENERAL CONTRACTOR WILL MODIFY THE EXISTING MASONRY OPENING TO ACCOMMODATE THE NEW UNITS AND GRILL THAT IS TO BE INSTALLED BY THE HVAC CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE INSULATION, BACKER RODS AND SEALANT AROUND GRILLES TO PREVENT AIR AND WATER INFILTRATION. REFER TO DRAWING A107 FOR TYPICAL SECTION AND DETAILS RELATED TO THIS WORK. INSTALLATION OF NEW EXTERIOR GRILL AND PERIMETER SEALANT IN COLOR SELECTED BY ARCHITECT, WILL BE BY THE HVAC CONTRACTOR.

REFER TO A109 FOR TYPICAL DEMOLITION FLOOR PLANS



FIRST FLOOR PLAN - BLOCK B
 Scale: 1/8" = 1'-0"

FVHD architects
 planners
 Fraytak Veisz Hopkins Dutrie P.C.
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17435

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330

Project Number: 4937C
 Project Date: 02.15.2019
 Checked By: JJV
 Drawn By: AM
 Scale: AS NOTED

Drawing Name: PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN

Block B

No.	Date	Description

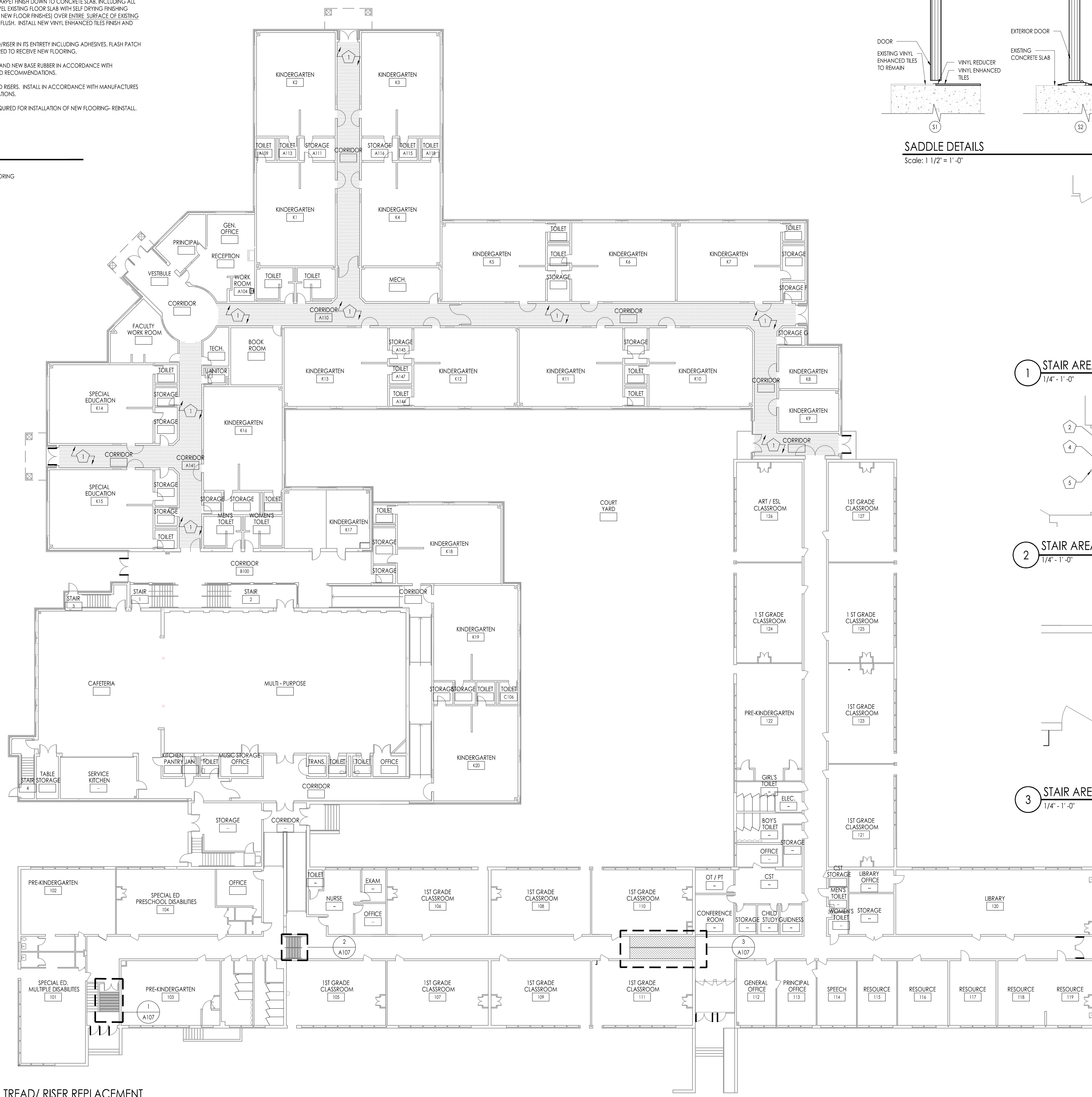
Drawing Number: A106

DEMOLITION / CONSTRUCTION NOTES:

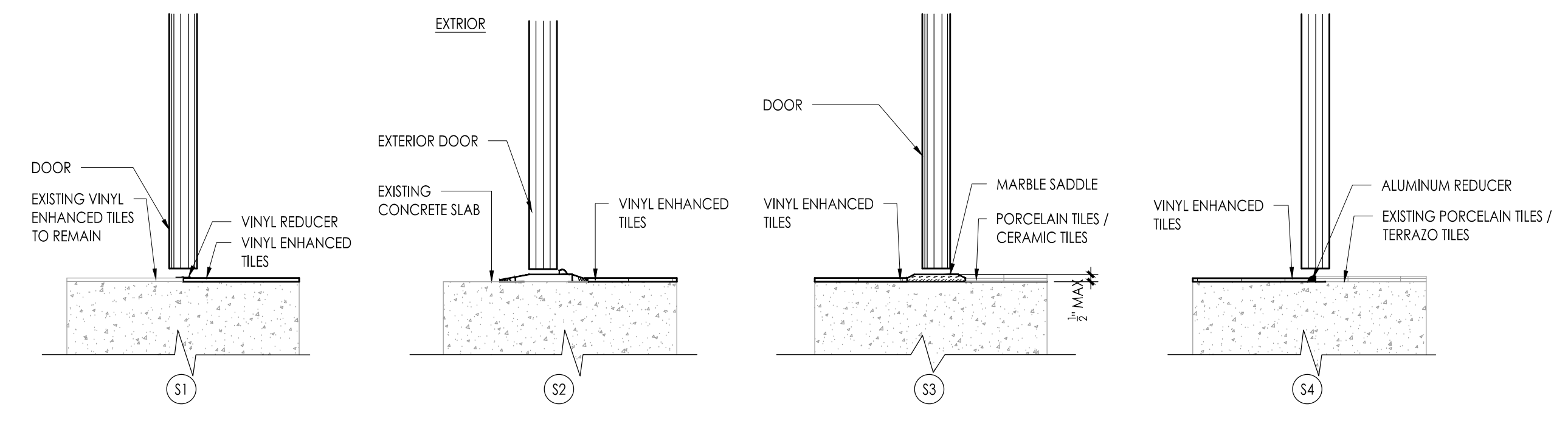
1. REMOVE EXISTING BASE, EXISTING CARPET FINISH DOWN TO CONCRETE SLAB, INCLUDING ALL ADHESIVES. CLEAN, PREPARE & LEVEL EXISTING FLOOR SLAB WITH SELF DRYING FINISHING UNDERLAYMENT (COMPATIBLE WITH NEW FLOOR FINISHES) OVER ENTIRE SURFACE OF EXISTING FLOOR TO MAKE FLOOR LEVEL AND FLUSH. INSTALL NEW VINYL ENHANCED TILES FINISH AND RUBBER BASE.
2. REMOVE EXISTING FLOORING TREAD/RISER IN ITS ENTIRETY INCLUDING ADHESIVES. FLASH PATCH AND PREPARE SUBSTRATE AS REQUIRED TO RECEIVE NEW FLOORING.
3. PROVIDE NEW RESILIENT FLOORING AND NEW BASE RUBBER IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.
4. PROVIDE NEW RESILIENT TREADS AND RISERS. INSTALL IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.
5. REMOVE EXISTING HANDRAIL AS REQUIRED FOR INSTALLATION OF NEW FLOORING- REINSTALL.

LEGEND

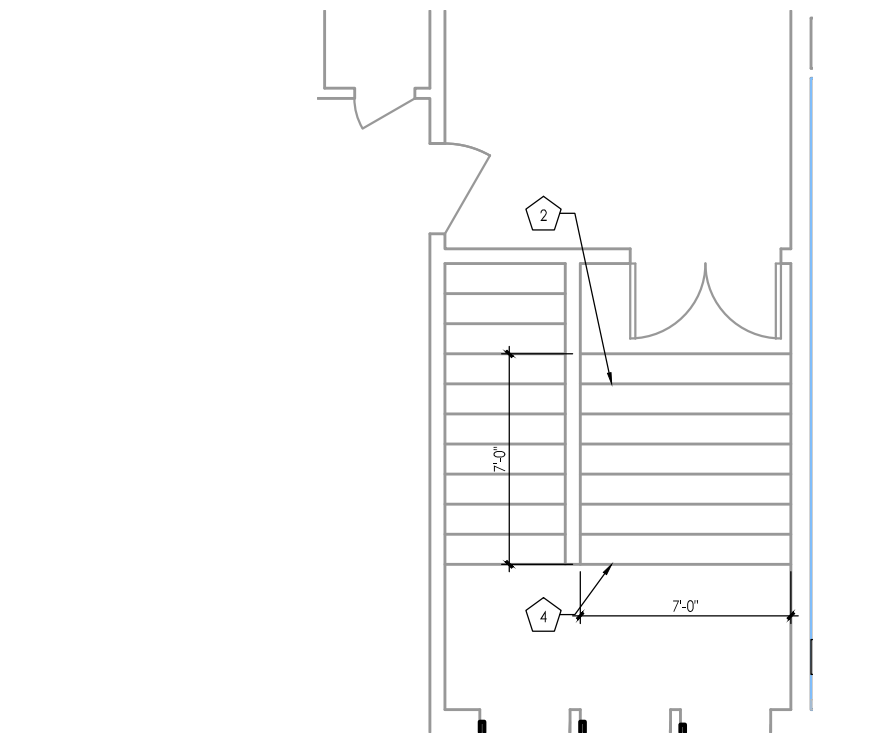
- NEW ENHANCED RESILIENT TILE FLOORING
- NEW RESILIENT RAMP FLOORING
- NEW STAIR TREADS & RISERS



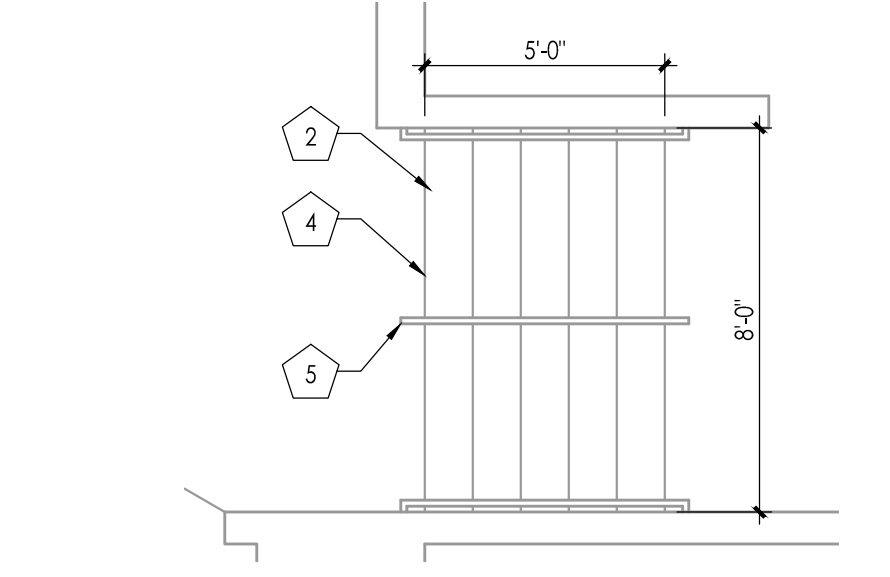
CORRIDOR CARPET & TREAD / RISER REPLACEMENT
Scale: 1/16" = 1'-0"



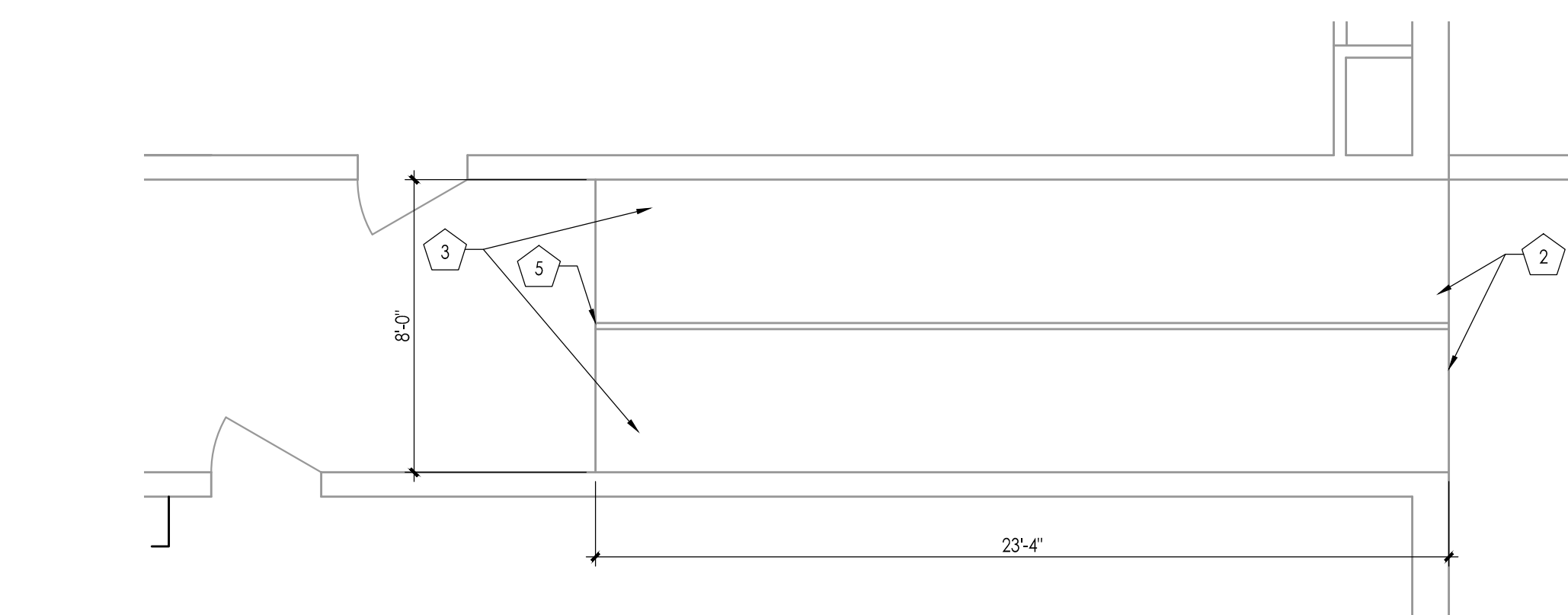
SADDLE DETAILS
Scale: 1 1/2" = 1'-0"



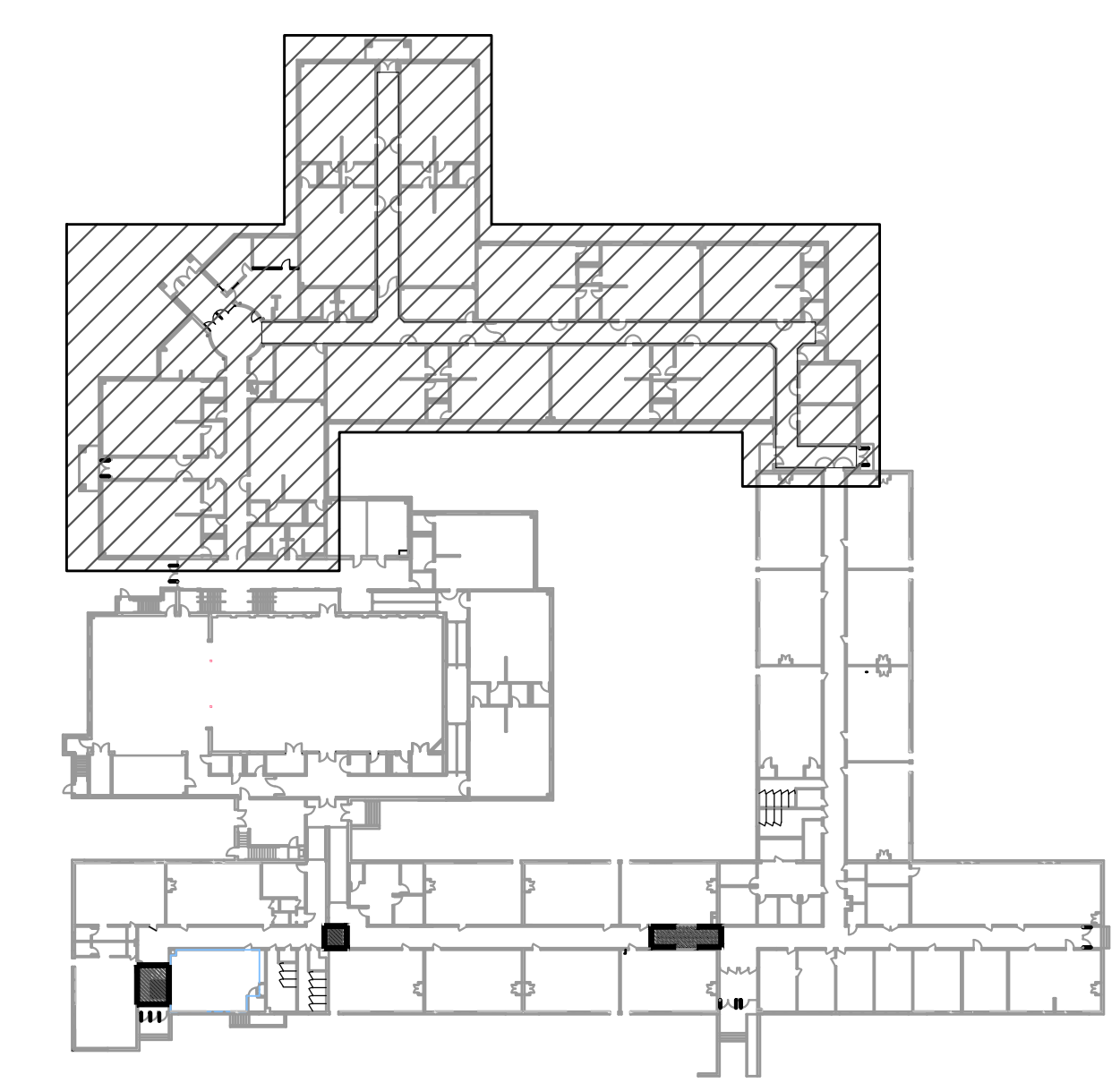
1 STAIR AREA - DEMOLITION PLAN
1/4" = 1'-0"



2 STAIR AREA - DEMOLITION PLAN
1/4" = 1'-0"



3 STAIR AREA - DEMOLITION PLAN
1/4" = 1'-0"



KEY PLAN
1/64" = 1'-0"

FVHD architects planners
Fraytak Veisz Hopkins Dutrie P.C.
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17043

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: KM
Scale: AS NOTED

Revisions:
No. Date Description

Drawing Name: CORRIDOR CARPET & TREAD / RISER REPLACEMENT
Drawing Number: A107

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: KM
Scale: AS NOTED

Revisions:
No. Date Description

Drawing Name: CORRIDOR CARPET & TREAD / RISER REPLACEMENT
Drawing Number: A107

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: KM
Scale: AS NOTED

Revisions:
No. Date Description

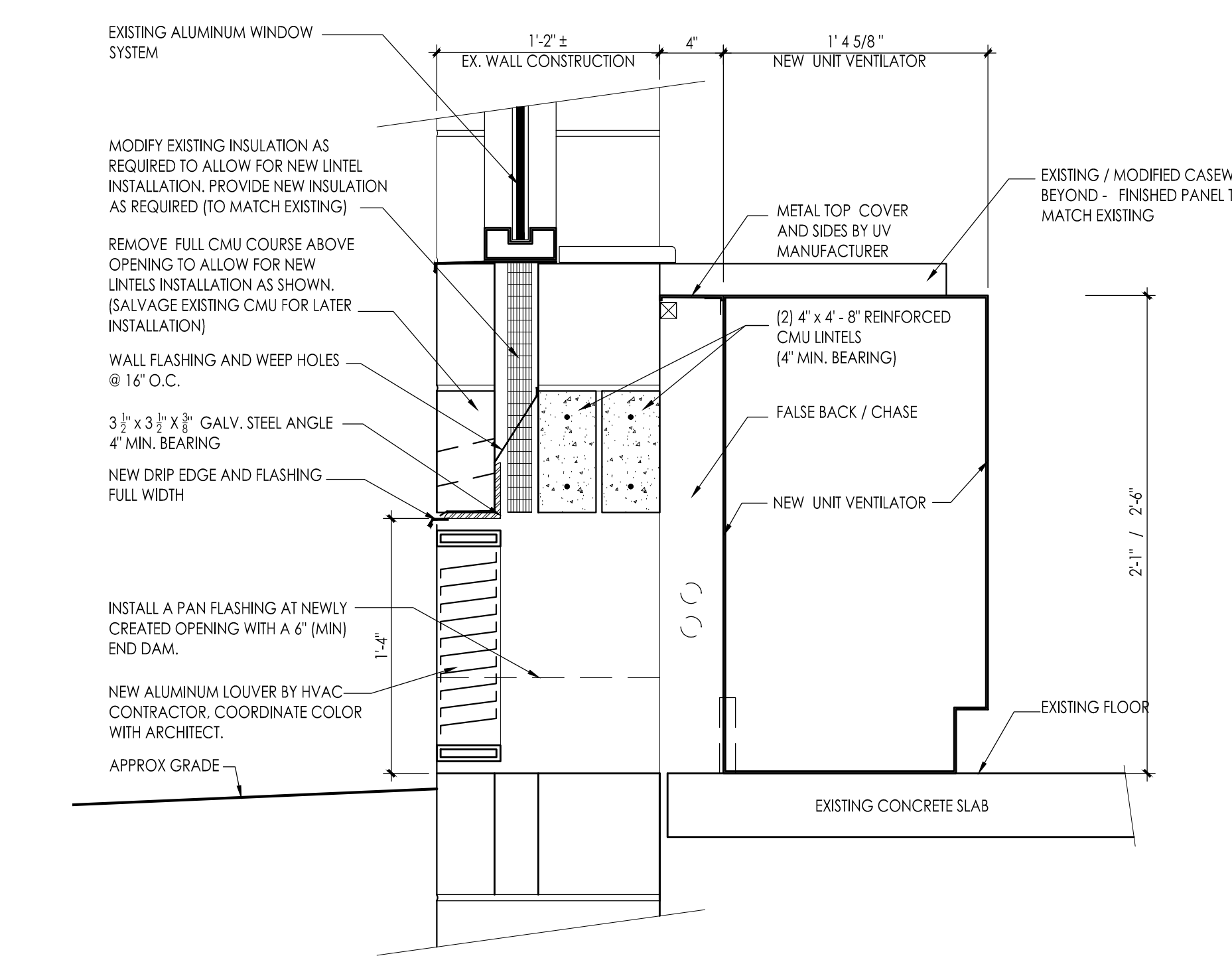
Drawing Name: CORRIDOR CARPET & TREAD / RISER REPLACEMENT
Drawing Number: A107

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: KM
Scale: AS NOTED

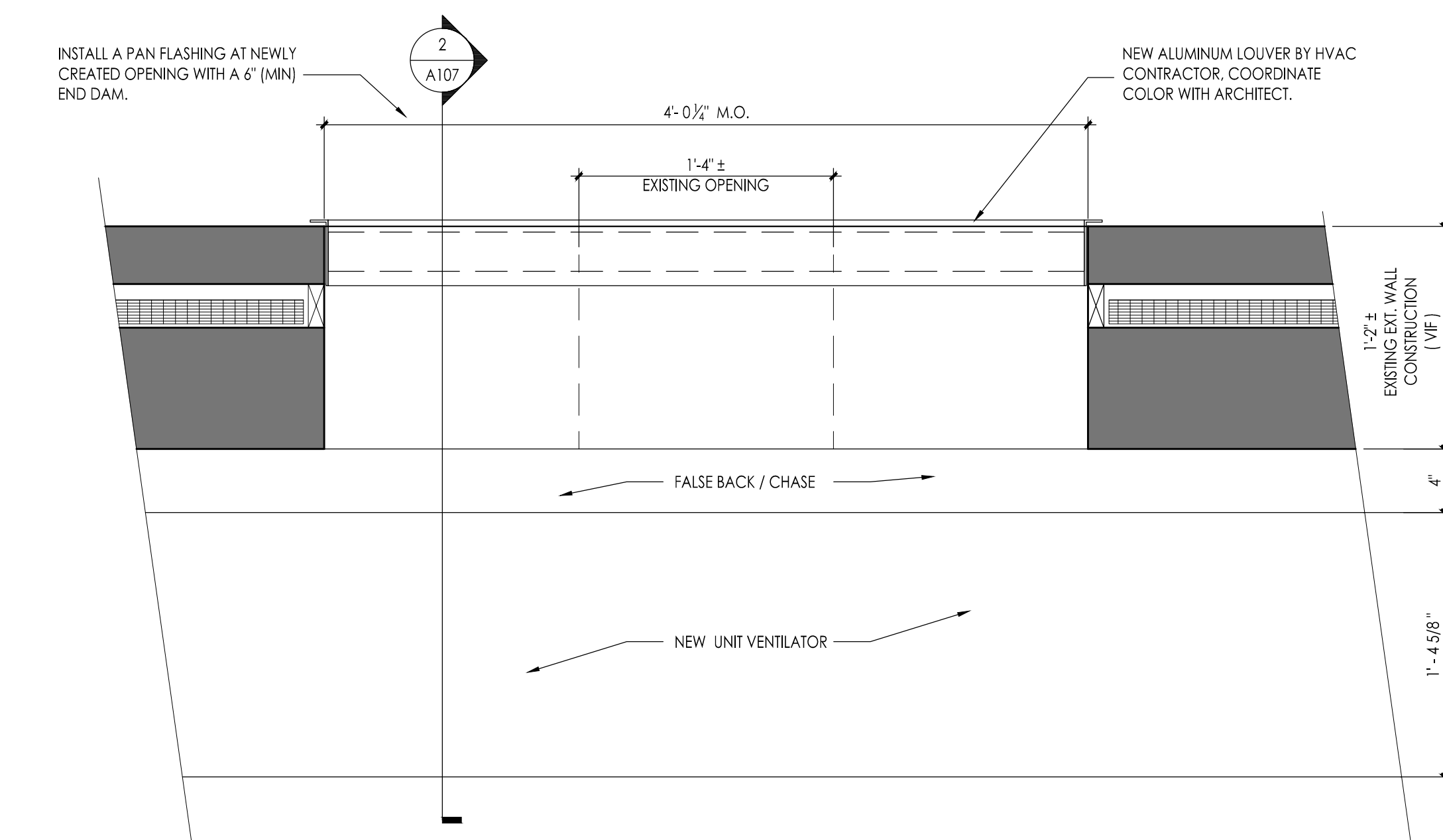
Revisions:
No. Date Description

Drawing Name: CORRIDOR CARPET & TREAD / RISER REPLACEMENT
Drawing Number: A107



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

- NOTES:**
- GENERAL CONTRACTOR (GC) IS RESPONSIBLE FOR CUTTING OF MASONRY OPENING AND ITS PREPARATION FOR THE INSTALLATION OF HVAC LOUVER BY HVAC CONTRACTOR.
 - GENERAL CONTRACTOR IS TO SHIM, INSULATE AND INSTALL SEALANT AND BACKER ROD AT PERIMETER OF NEW LOUVER.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR REQUIRED SHORING / TEMPORARY SUPPORT OF MASONRY UNTIL INSTALLATION OF SLEEVE OCCURS.
 - GENERAL CONTRACTOR IS TO PROVIDE AND MAINTAIN TEMPORARY WATER PROOF CLOSURE AT ALL NEWLY CREATED OPENINGS UNTIL NEW LOUVER INSTALLATION IS COMPLETED.
 - AT WINDOW LOCATION, GENERAL CONTRACTOR IS RESPONSIBLE FOR SHORING AND SUPPORTING THE EXISTING ALUMINUM WINDOW SYSTEM AND FOR MAINTAINING ITS INTEGRITY.
 - ALL DISTURBED AND NEWLY EXPOSED SURFACES ARE TO BE RESTORED TO MATCH EXISTING ADJACENT SURFACES - WALLS PAINTED / FLOORS TO MATCH.



3 PLAN DETAIL - TYP
SCALE: 1 1/2" = 1'-0"

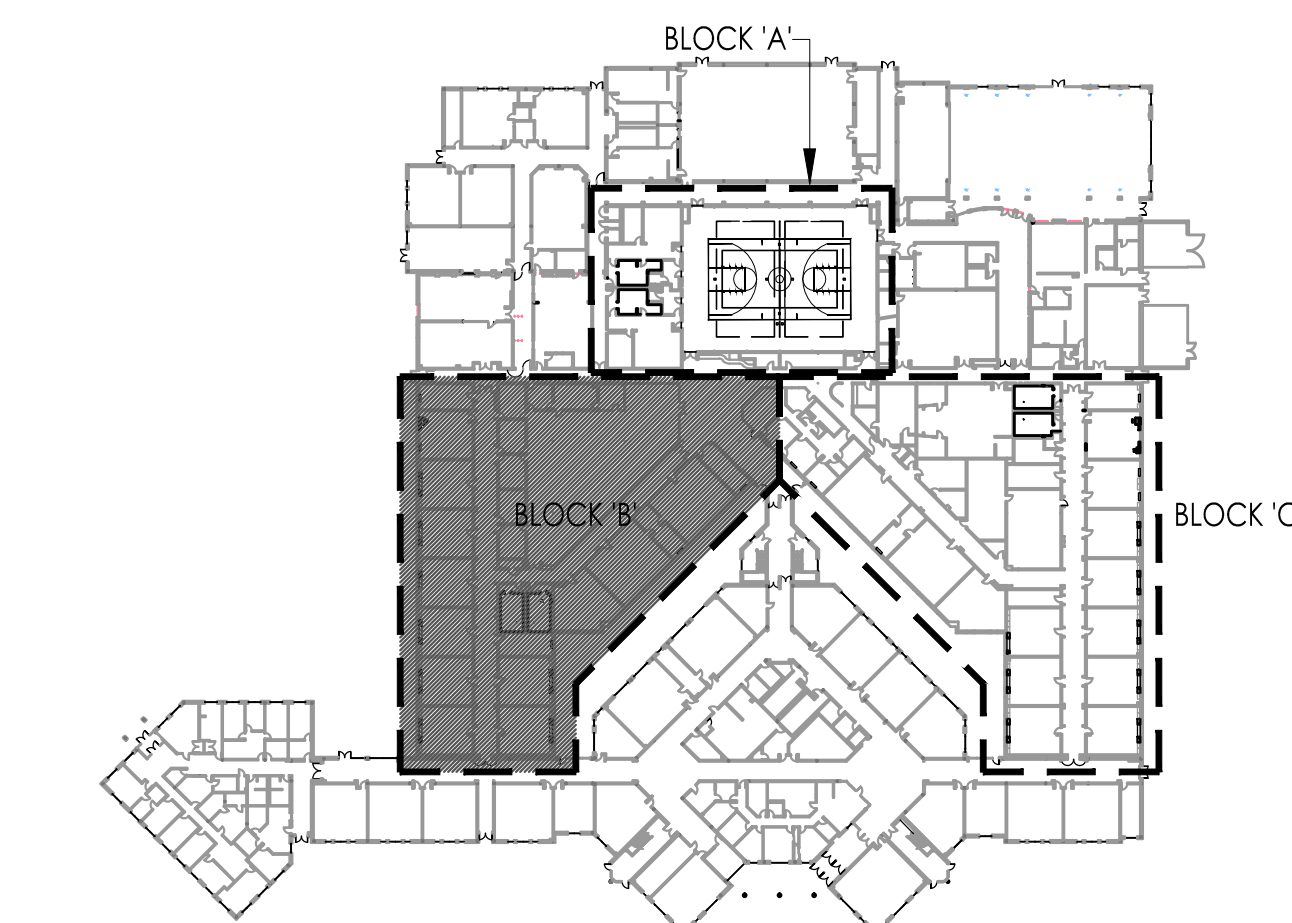
NOTES:
UNLESS OTHERWISE SPECIFIED ON DRAWINGS, PROVIDE & INSTALL LINTELS FOR ALL SQUARE HEAD MASONRY OPENINGS IN ALL MASONRY WALLS IN ACCORDANCE WITH THE FOLLOWING SCHEDULES AND COMMENTS.

LOOSE LINTEL SCHEDULE (FOR 4', 8', 12' & 16' WALLS)		
MASONRY OPENING	LINTEL SIZE	REMARKS
UP TO 4'-0"	L - 3-1/2" x 3-1/2" x 1/4"	
4'-1" TO 6'-0"	L - 5" x 3-1/2" x 5/16"	
6'-1" TO 8'-0"	L - 6" x 3-1/2" x 5/16"	
OVER 8'-0"	W 8 x 18 + PLATE	

LOOSE LINTEL SCHEDULE (FOR 6" WALLS)		
MASONRY OPENING	LINTEL SIZE	REMARKS
2'-0" TO 6'-0"	WT 7 x 11	
6'-1" TO 8'-0"	WT 8 x 13	

- NOTES:**
- PROVIDE ONE (1) ANGLE FOR EACH 4" OF MASONRY WIDTH.
 - BEAR LINTELS 6" MINIMUM ON EACH SIDE OF OPENING.
 - ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.
 - WHERE OPENINGS ARE LOCATED NEXT TO COLUMNS OR BEAMS, ATTACH LINTEL TO STRUCTURAL STEEL. CONNECTION NOT TO PROTRUDE INTO OPENING.
 - REFER TO ARCHITECTURAL, HVAC & ELECTRICAL DRAWINGS FOR OPENING SIZE & LOCATION.

REFER TO A110 FOR TYPICAL NEW WORK FLOOR PLANS

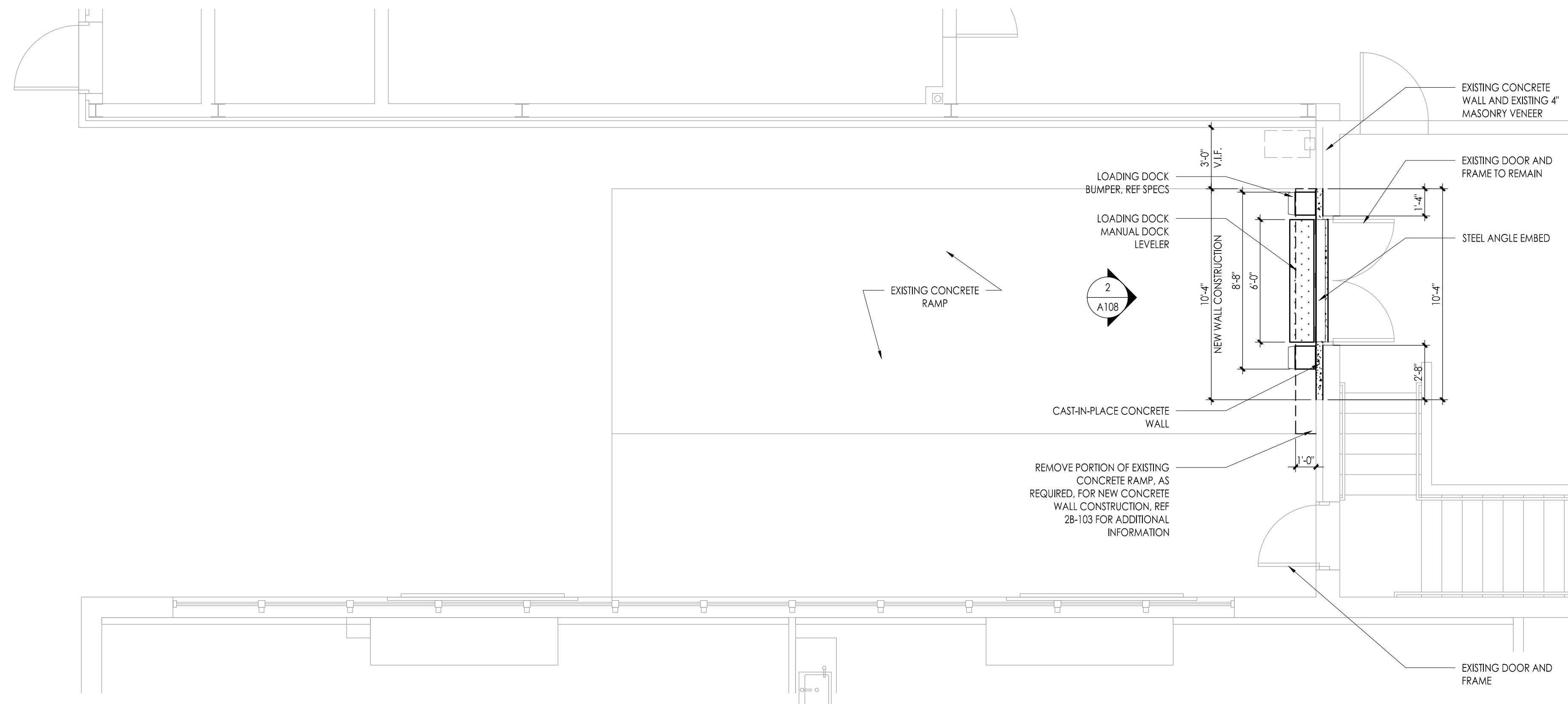


JOHN J. VEISZ, AIA, CSRA
 NJ-21486600 / PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-21484001 / PA-84202004
 GEORGE K. DUTHIE, JR., AIA, PP
 NJ-21482700 / PA-84202000

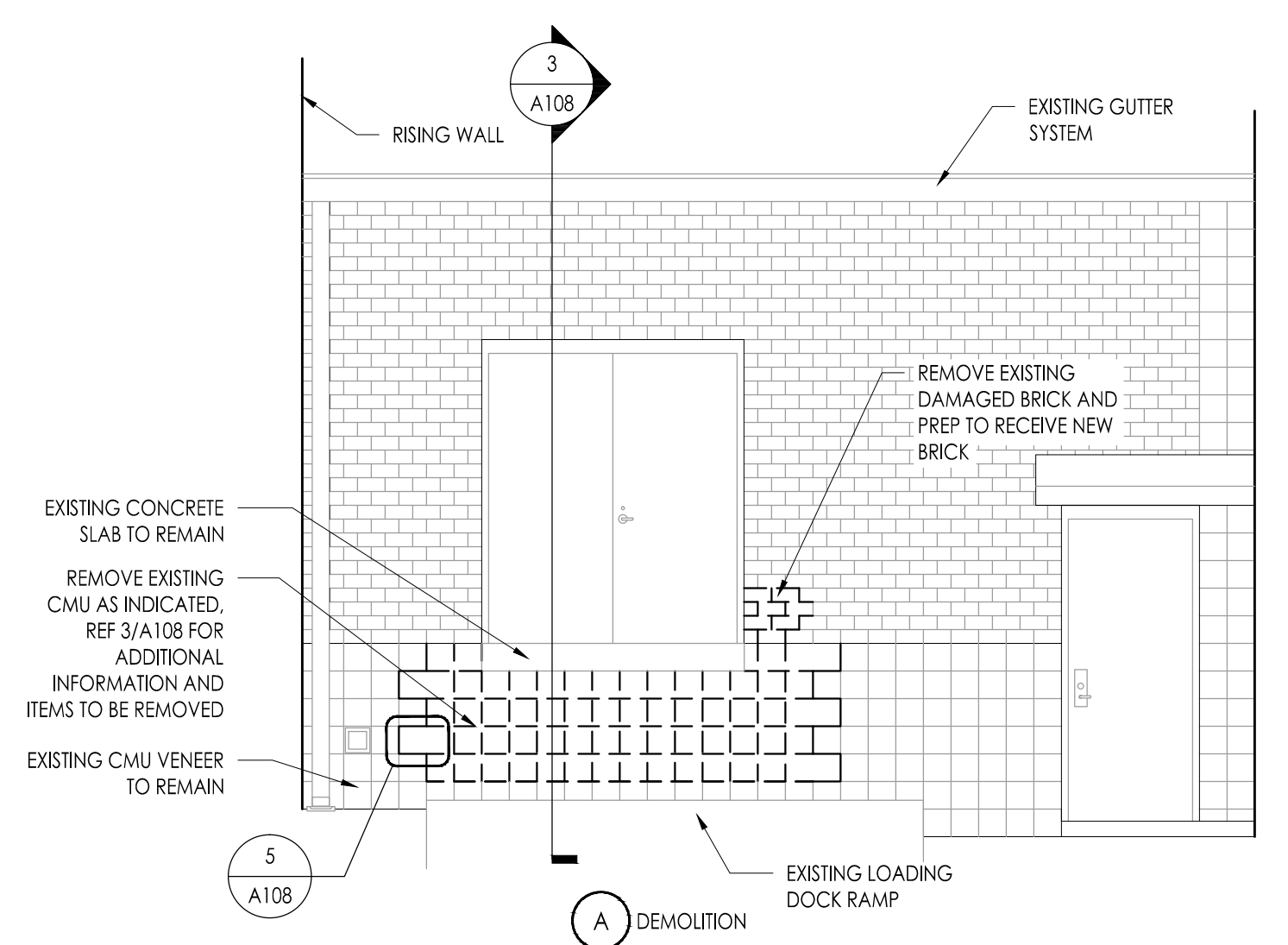
FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P.C.
 Corporate: 1515 Lower Ferry Road - Teaneck - New Jersey 07628
 Pennsylvania: 140 Whitaker Ave - Mont Clear - Pennsylvania 17433

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
 Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
 Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330
 Project Number: 4937C
 Project Date: 02.15.2019
 Checked By: JJV
 Drawn By: AM
 Scale: AS NOTED
 Drawing Name: PARTIAL FIRST FLOOR HVAC NEW WORK PLAN
 Block: BLOCK B
 Revisions: [Table with 3 columns: No., Date, Description]
 Drawing Number: A107

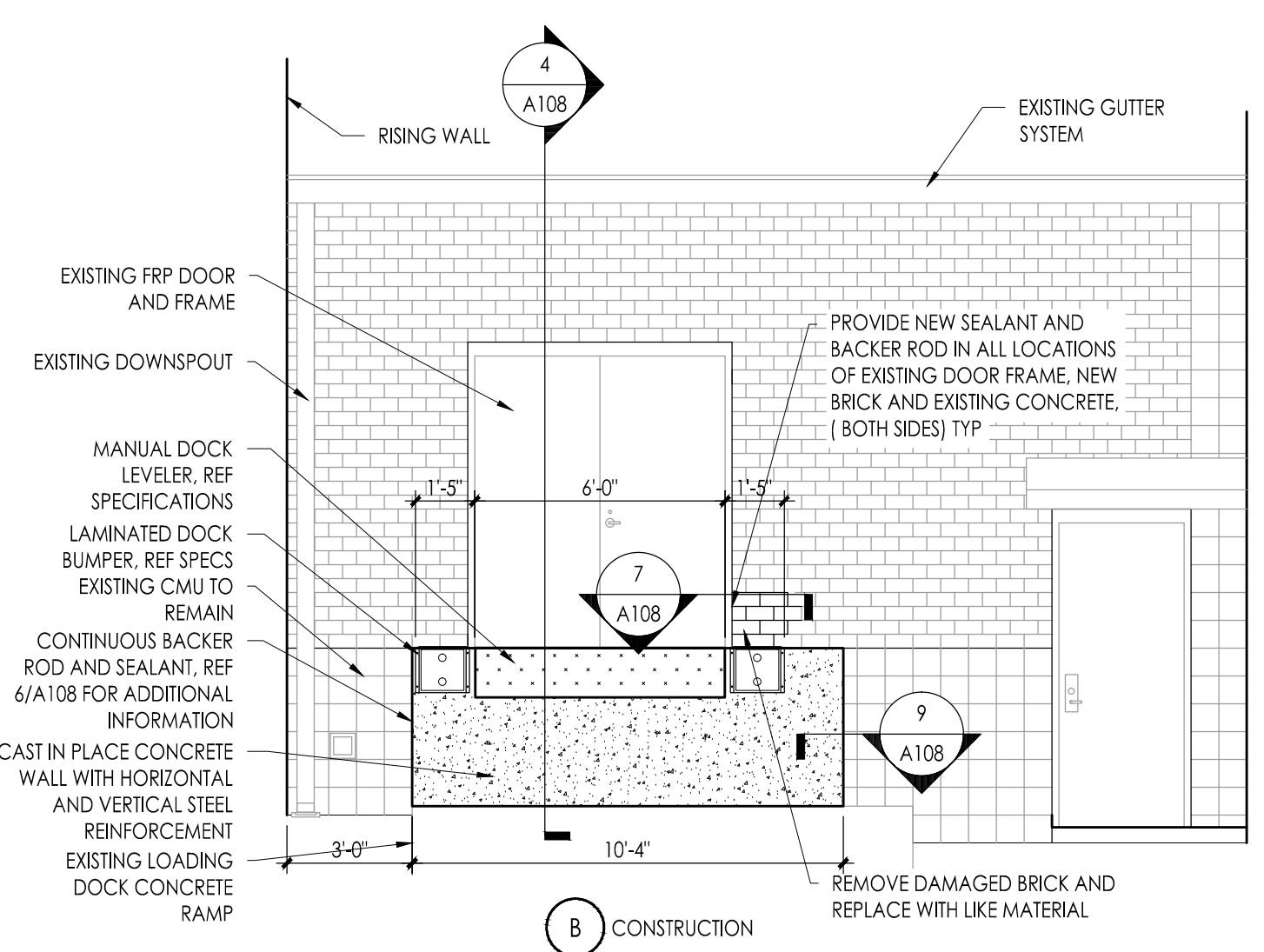
FIRST FLOOR PLAN - BLOCK B
Scale: 1/8" = 1'-0"



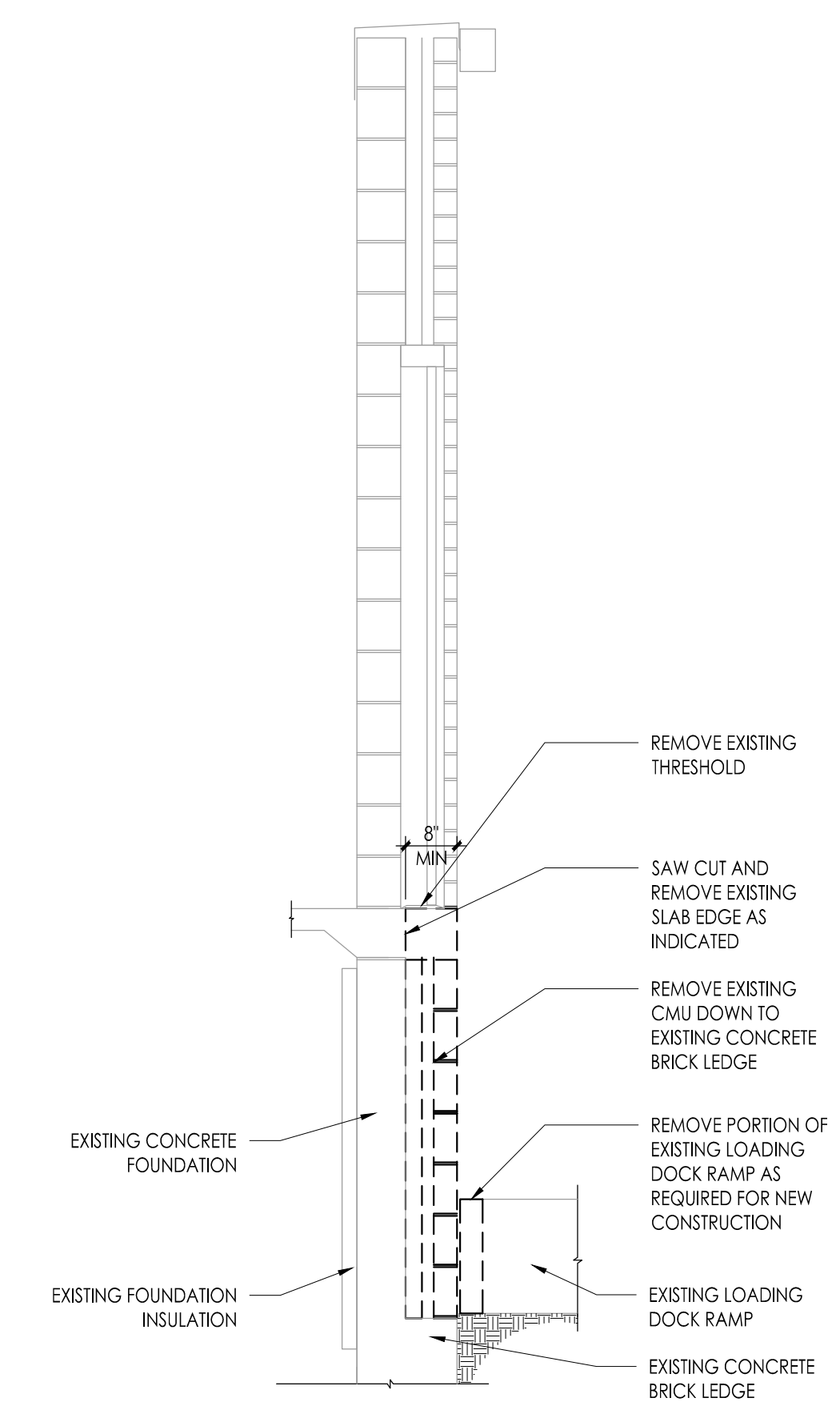
1 LOADING DOCK PLAN
1/4" = 1'-0"



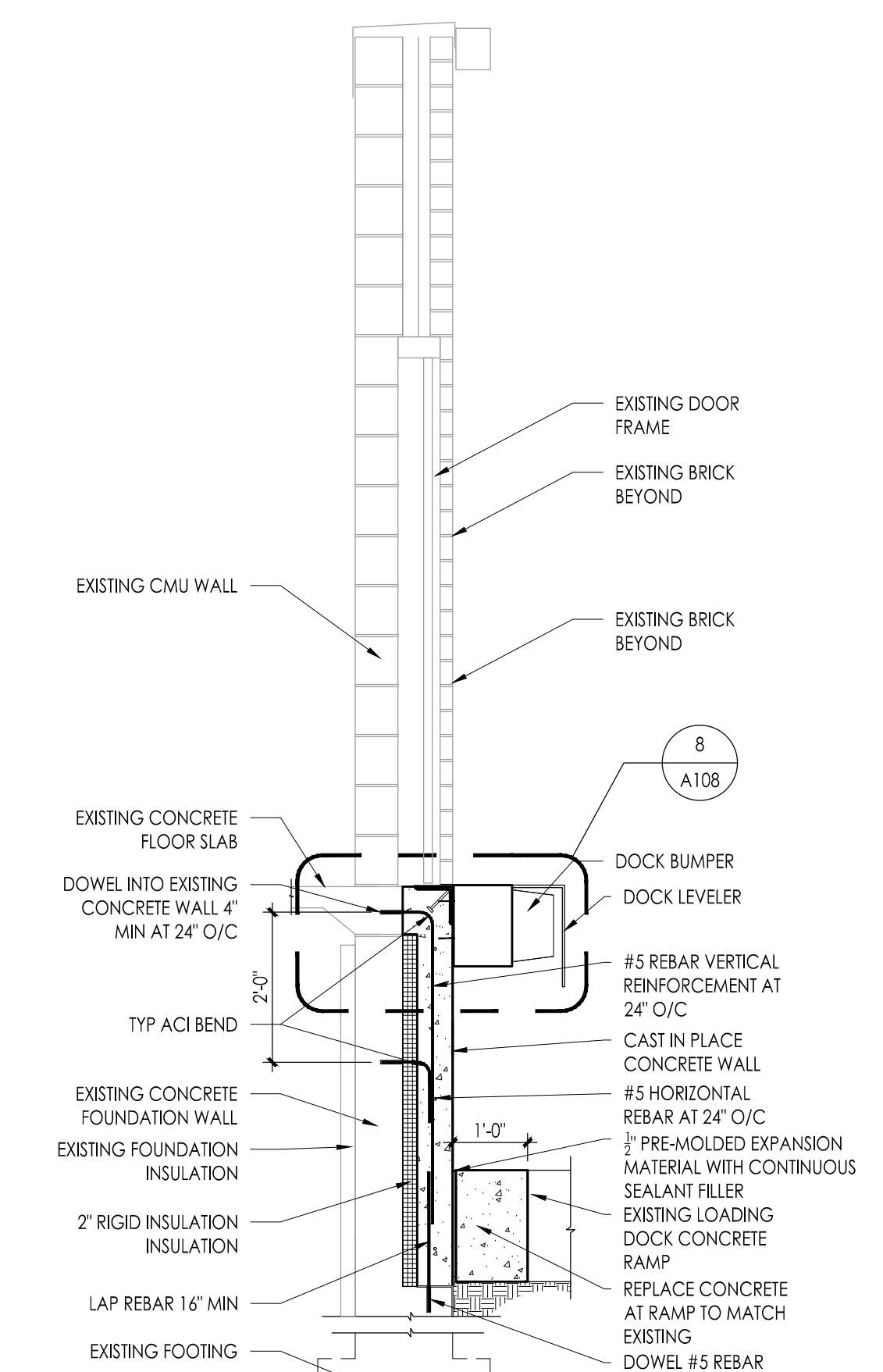
2 EXISTING LOADING DOCK ELEVATION
1/4" = 1'-0"



3 LOADING DOCK ELEVATION
1/4" = 1'-0"



3 LOADING DOCK DEMOLITION WALL SECTION
1/2" = 1'-0"



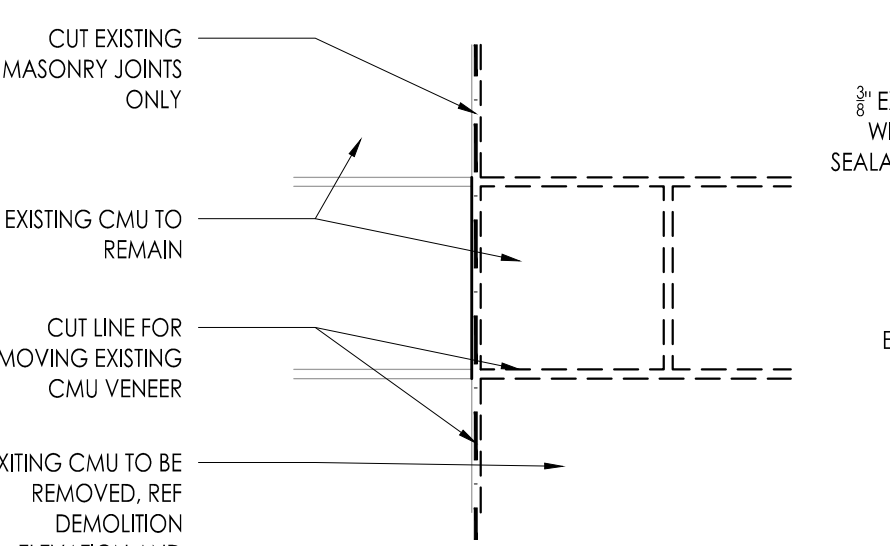
4 LOADING DOCK NEW CONSTRUCTION WALL SECTION
1/2" = 1'-0"

NOTES FOR CONCRETE AND REINFORCEMENT

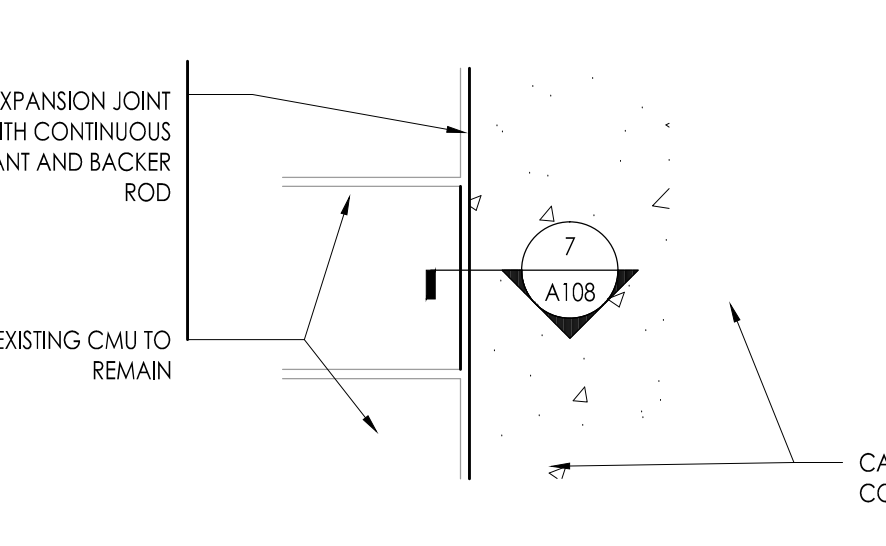
- 1) REF A103 FOR ADDITIONAL NOTES AND INFORMATION FOR CONCRETE FOOTINGS AND STEEL REINFORCEMENT

MISCELLANEOUS

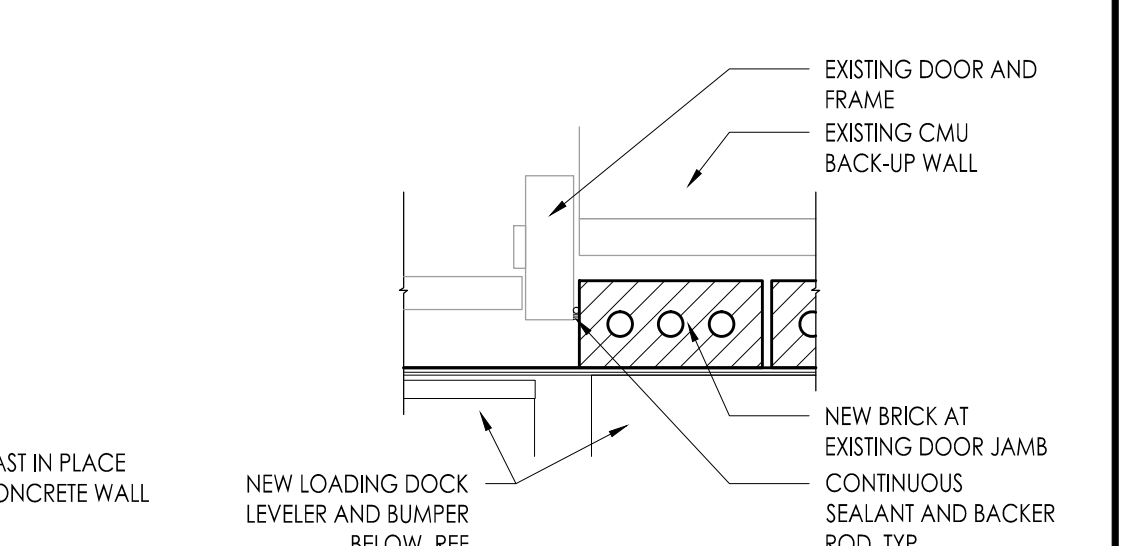
- 1) CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SECTIONS AND ELEVATIONS ON JOB.
- 2) CONSULT ALL OTHER DISCIPLINE DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF INSERTS, SLEEVES, WASHES REVEALS



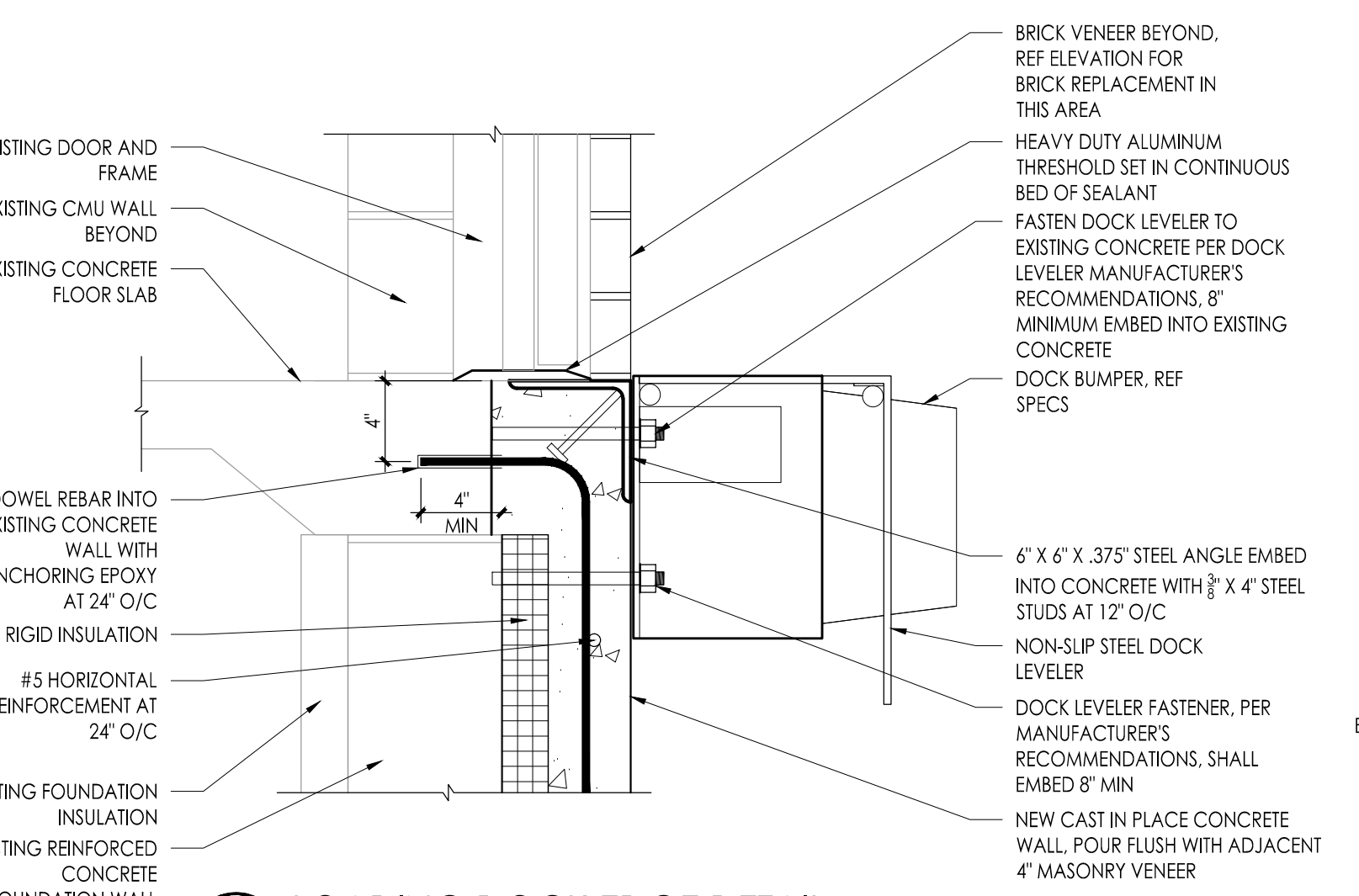
5 DEMOLITION CUT DETAIL
1 1/2" = 1'-0"



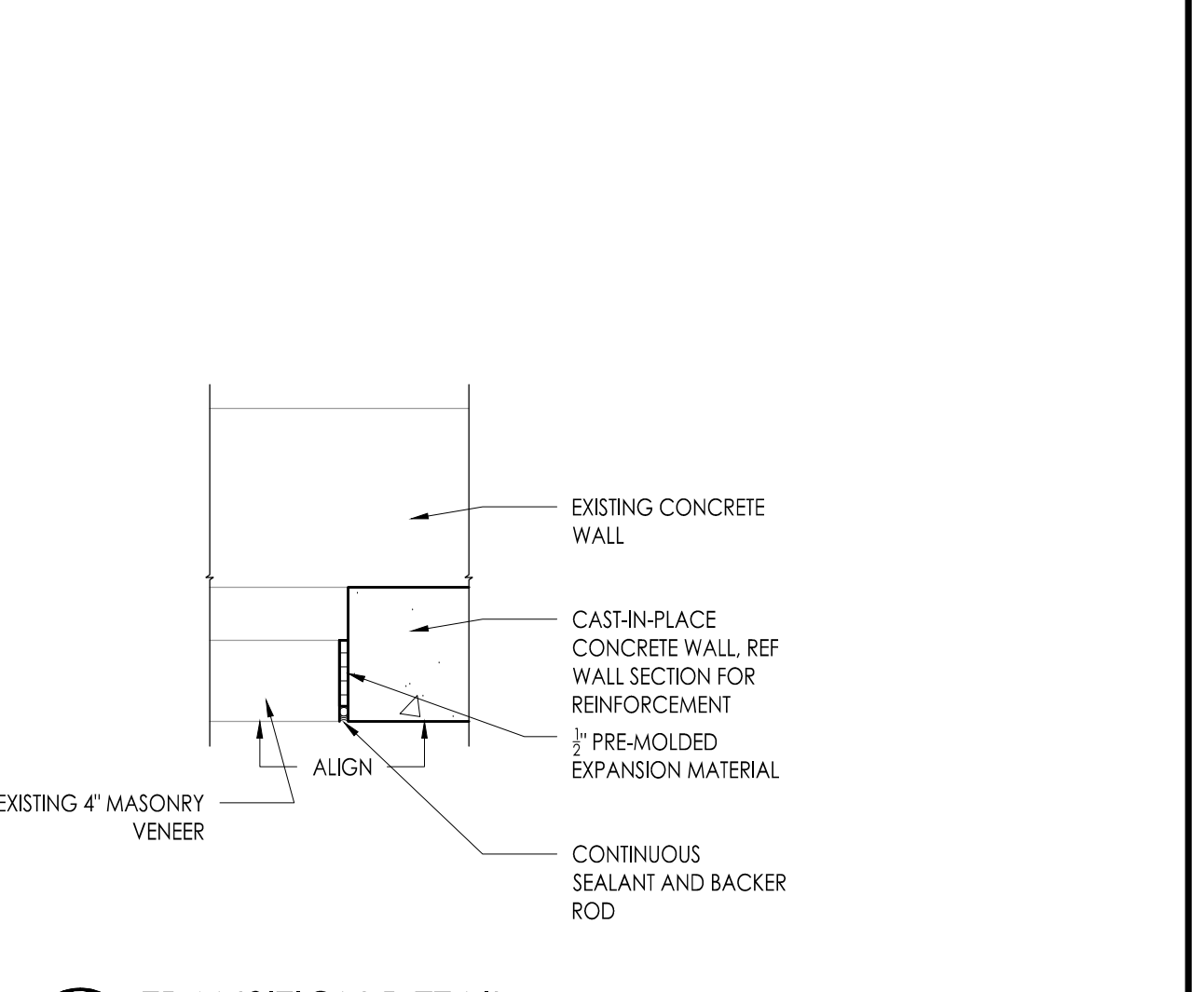
6 EXPANSION JOINT DETAIL
1 1/2" = 1'-0"



7 EXISTING DOOR JAMB DETAIL
1 1/2" = 1'-0"



8 LOADING DOCK EDGE DETAIL
1 1/2" = 1'-0"



9 TRANSITION DETAIL
1 1/2" = 1'-0"

GENERAL DEMOLITION NOTES:

- A. CONTRACTORS ARE ADVISED TO VISIT THE SITE AND VERIFY ALL AREAS AND CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. FAILURE TO DO NOTIFY THE ARCHITECT INDICATES THAT ANY ADDITIONAL COSTS ASSOCIATED WITH THE DISCREPANCIES AND / OR OMISSIONS ARE INCLUDED IN THE CONTRACTOR'S BID AND THAT NO CHANGE TO THE CONTRACT AMOUNT WILL BE MADE AFTER THE RECEIPT OF BIDS OR THE AWARD OF CONTRACTS.
- B. ALL ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. ALL EQUIPMENT, DEVICES, FIXTURES, ETC., SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE CONTRACTOR.
- C. UNLESS NOTED OTHERWISE ALL DEMOLITION MATERIAL SHALL BE REMOVED OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D. NOT USED
- E. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF THE EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE. REFER TO FLOOR PLAN DRAWINGS FOR FINISHES OF THESE AREAS.
- F. IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT SURFACES AND FINISHED TO PROVIDE A UNIFORM APPEARANCE WITH REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL.
- G. THE CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AND DIRT AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE.
- H. NO DEMOLITION SHALL BEGIN UNTIL PROPER PROTECTION IS IN PLACE AND APPROVED BY ARCHITECT & OWNER TO ENSURE THE SAFETY OF THE PUBLIC, THE BUILDING OCCUPANTS, CONSTRUCTION WORKERS AND TO CONTAIN DUST AND DIRT WITHIN THE AREA OF DEMOLITION.
- I. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REGARDING THE REMOVAL AND DISPOSAL OF ALL MATERIALS & EQUIPMENT.
- J. THE CONTRACTOR SHALL PROVIDE PROTECTION AGAINST INCLEMENT WEATHER FOR THE EXISTING BUILDING DURING THE INTERIM PERIOD BETWEEN DEMOLITION AND THE COMPLETION OF NEW CONSTRUCTION.

- K. THE CONTRACTORS SHALL TAKE INTO ACCOUNT THEIR METHODS OF CONSTRUCTION FOR THE NEW WORK AND INCLUDE IN THEIR BID THE COST OF ADDITIONAL DEMOLITION WORK NECESSARY TO FACILITATE THE CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO: THE AREA AROUND JOINTS BETWEEN NEW AND EXISTING CONSTRUCTION IN WALLS, FLOORS AND CEILINGS, AREAS OF SEWER/LINE, ETC., WHICH OF THE WORK IS INDICATED IN SECTIONS AND DETAILS RELATING TO THE NEW CONSTRUCTION.
- L. THE DEMOLITION WORK SHOWN ON THIS PLAN IS INTENDED TO BE A GENERAL OVERVIEW OF MAJOR DEMOLITION WORK REQUIRED. IT IS NOT A COMPLETE AND EXCLUSIVE REPRESENTATION OF ALL DEMOLITION WORK NEEDED FOR EXECUTION OF THE PROJECT. WHEN PREPARING THEIR BIDS, CONTRACTORS MUST REFER TO THE FULL SET OF CONSTRUCTION DOCUMENTS FOR VARIOUS MISCELLANEOUS ITEMS WHICH MUST BE REMOVED AND/OR RELOCATED AS PART OF THE WORK.
- M. ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING - SEE SPECIFICATION.

JOHN J. VEIZ, AIA, CSBA
 NU-214866000 | PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NU-214866000 | PA-84202204
 GEORGE K. DUTHIE JR., AIA, PP
 NU-214866000

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - North Chazy - Pennsylvania 17435

Project Name:
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name:
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location:
**5801 3rd ST
 MAYS LANDING,
 NJ 08330**

Project Number:
4937B

Project Date:
02.15.2019

Checked By:
JJV

Drawn By:
BO

Scale:
AS NOTED

Drawing Name:
LOADING DOCK SECTIONS ELEVATIONS AND DETAILS

Drawing Number:
A108



REFLECTED CEILING PLAN WORK LEGEND

- REMOVE / REPLACE
- REMOVE / REINSTALL

DEMOLITION / RENOVATION NOTES - SEE A1xx

FOR GENERAL DEMOLITION NOTES SEE DRAWING G002.

REFLECTED CEILING PLAN LEGEND

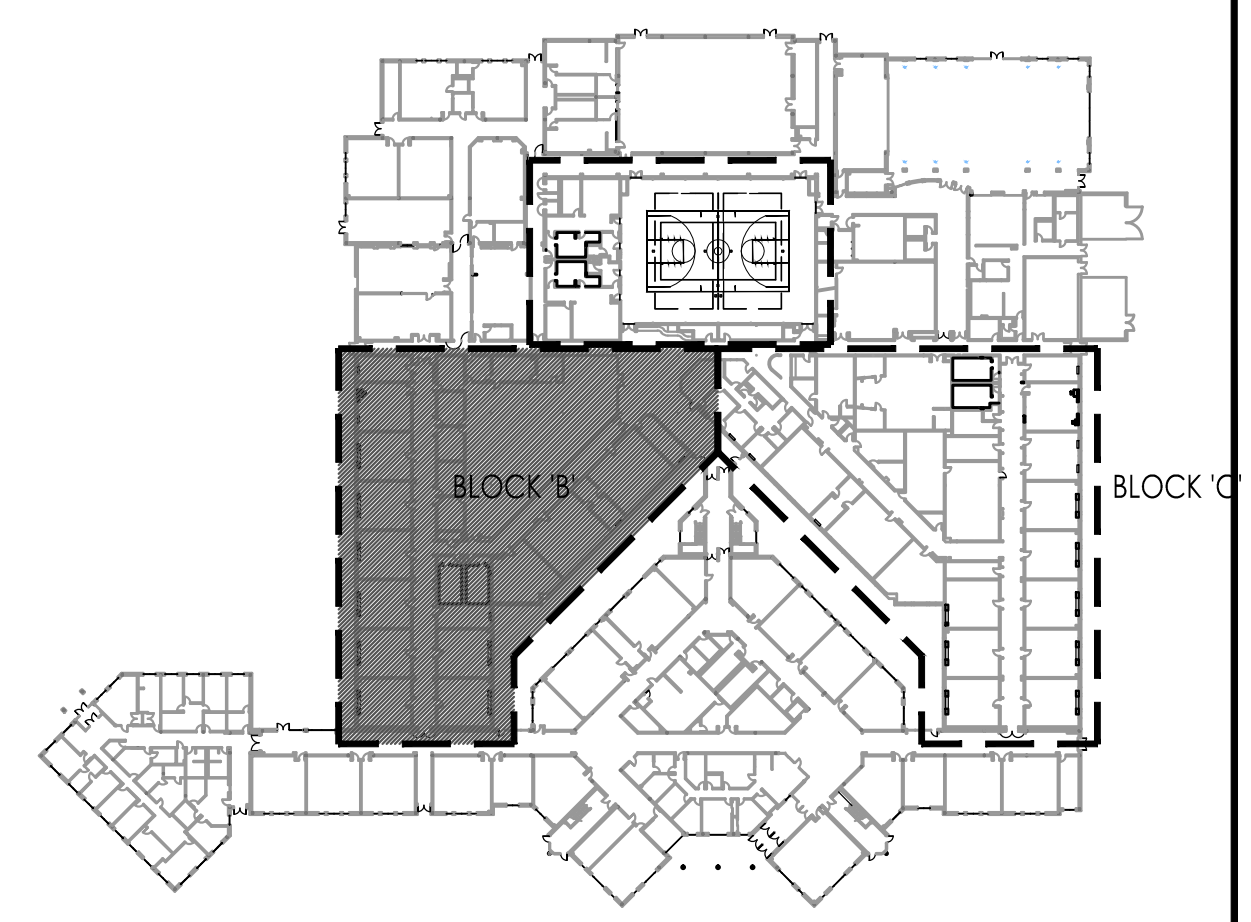
- EXISTING ACB #1 - 2' X 2' ACOUSTICAL CEILING-SOUND BOARD - SEE FINISH SCHEDULE FOR LOCATION & TYPE
- EXISTING ACB #2 - 2' X 4' ACRYLIC ACOUSTICAL CEILING BOARD - SEE FINISH SCHEDULE FOR LOCATION
- EXISTING GYPSUM BOARD SOFFIT
- EPS
- EXHAUST FAN (SEE MECHANICAL DRAWINGS)
- RETURN DIFFUSER (SEE MECHANICAL DRAWINGS)
- SUPPLY DIFFUSER (SEE MECHANICAL DRAWINGS)
- LINEAR DIFFUSER (SEE MECHANICAL DRAWINGS)
- LIGHTS (SEE ELECTRICAL DRAWINGS)
 - EXISTING CAMERA TO REMAIN
 - EXISTING DETECTOR TO REMAIN
 - EXISTING MOTION SENSOR TO REMAIN
 - EXISTING SPEAKER TO REMAIN
 - EXISTING STROBE LIGHT TO REMAIN
 - EXISTING CEILING MOUNTED WIR HUB TO REMAIN
 - EXISTING CEILING MOUNTED EXIT SIGN TO REMAIN
- SPRINKLER HEAD (SEE FIRE PROTECTION DRAWINGS)

DEMOLITION / RENOVATION NOTES - WILLIAM DAVIES MIDDLE SCHOOL:

REFER TO MECHANICAL / ELECTRICAL FOR ADDITIONAL DEMO / CONSTRUCTION NOTES AND PROCEDURES.

SEE GENERAL NOTES ON DEMOLITION ON DRAWING G002.
 THESE NOTES ARE SPECIFIC TO THE WORK AT WILLIAM DAVIES MIDDLE SCHOOL AND SHALL NOT BE APPLIED TO WORK AT OTHER SCHOOLS IN THE PROJECT. ALL WORK DESCRIBED IN THESE NOTES IS THE RESPONSIBILITY OF THE GENERAL PRIME CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

- 1 IN INDICATED SPACES, REMOVE AND STORE EXISTING CEILING PANELS, CEILING GRID AND APPLIANCES TO ACCOMMODATE RENOVATION. COORDINATE EXTENT OF CEILING REMOVAL WITH PROVISION OF REMOVALS AND NEW WORK - SEE HVAC DRAWINGS. INDICATED WORK IS ANTICIPATED BASED ON DUCT AND PIPE ROUTINGS. COORDINATE WITH SHEET METAL AND PIPING SHOP DRAWINGS. ANY REMOVAL / REINSTALLATION OUTSIDE OF INDICATED LIMITS IS BY HVAC OR ELECTRICAL PRIME CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CLEAN EXISTING GRID. AFTER RENOVATION IS COMPLETE, REINSTALL (WITH NEW HANGAR WIRE TO EXISTING STRUCTURE) ALL CEILING GRID, CEILING PANELS AND APPLIANCES IN PREVIOUS LOCATIONS UNLESS SUPERSEDED BY REFLECTED CEILING PLAN OR HVAC / ELECTRICAL DRAWINGS. REPLACE ALL DAMAGED OR DETERIORATED CEILING PANELS AND GRID WITH NEW TO MATCH EXISTING. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT SURFACES. ALL HVAC / ELECTRICAL WORK INCLUDING DEMOLITION, PATCHING & REPAIR, RE-INSTALLATION AND RE-CONNECTION SHALL BE BY RESPECTIVE TRADE CONTRACTOR.
- 2 GYP BOARD CEILING REMOVAL REMOVE EXISTING GYPSUM WALL BOARD AND STEEL STUD FRAMING ASSEMBLY AS REQUIRED FOR MECHANICAL EQUIPMENT REMOVAL AND NEW INSTALLATION. REPAIR/INSTALL NEW TO MATCH EXISTING.



JOHN J. VEIS, AIA, CSBA
 NU-PA18684001 PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NU-PA18684001 PA-84202024
 GEORGE K. DUTHIE, JR., AIA, PP
 NU-PA18684001 PA-84202020

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17433

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
 Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
 Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330
 Project Number: 4937C
 Project Date: 02.15.2019
 Checked By: JJV
 Drawn By: KM
 Scale: AS NOTED
 Drawing Name: PARTIAL FIRST FLOOR REFLECTED CEILING PLAN
 Drawing Number: A108

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
 Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
 Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330
 Project Number: 4937C
 Project Date: 02.15.2019
 Checked By: JJV
 Drawn By: KM
 Scale: AS NOTED
 Drawing Name: PARTIAL FIRST FLOOR REFLECTED CEILING PLAN
 Drawing Number: A108

BLOCK B

No.	Date	Description

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

DEMOLITION / CONSTRUCTION NOTES:

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, CARPET ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE GENERAL CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM SITE.

- PATCH AND REPAIR ALL DAMAGE, ESPECIALLY FLOOR AND WALL DAMAGE, RESULTING FROM DEMOLITION AND REMOVAL OF EXISTING UNIT VENTILATOR, FIN TUBE RADIATION AND ASSOCIATED CASEWORK AND APPURTENANCES. MATCH EXISTING ADJACENT FINISH. FINISH ALL NEWLY EXPOSED SURFACES (WALL, FLOOR, BASE, ETC.) TO MATCH EXISTING ADJACENT SURFACES TO REMAIN. SEE ROOM FINISH SCHEDULE.
- IN ALL LOCATIONS OF REMOVED UNIT VENTILATOR OUTSIDE AIR GRILLES, CLOSE AND PATCH OPENINGS WITH NEW WALL CONSTRUCTION TO MATCH EXISTING, INCLUDING FACE BRICK, INSULATION AND CMU. INSTALL FLUSH WITH BOTH FACES OF WALL. PAINT EXPOSED INTERIOR SURFACES TO MATCH EXISTING ADJACENT WALL.

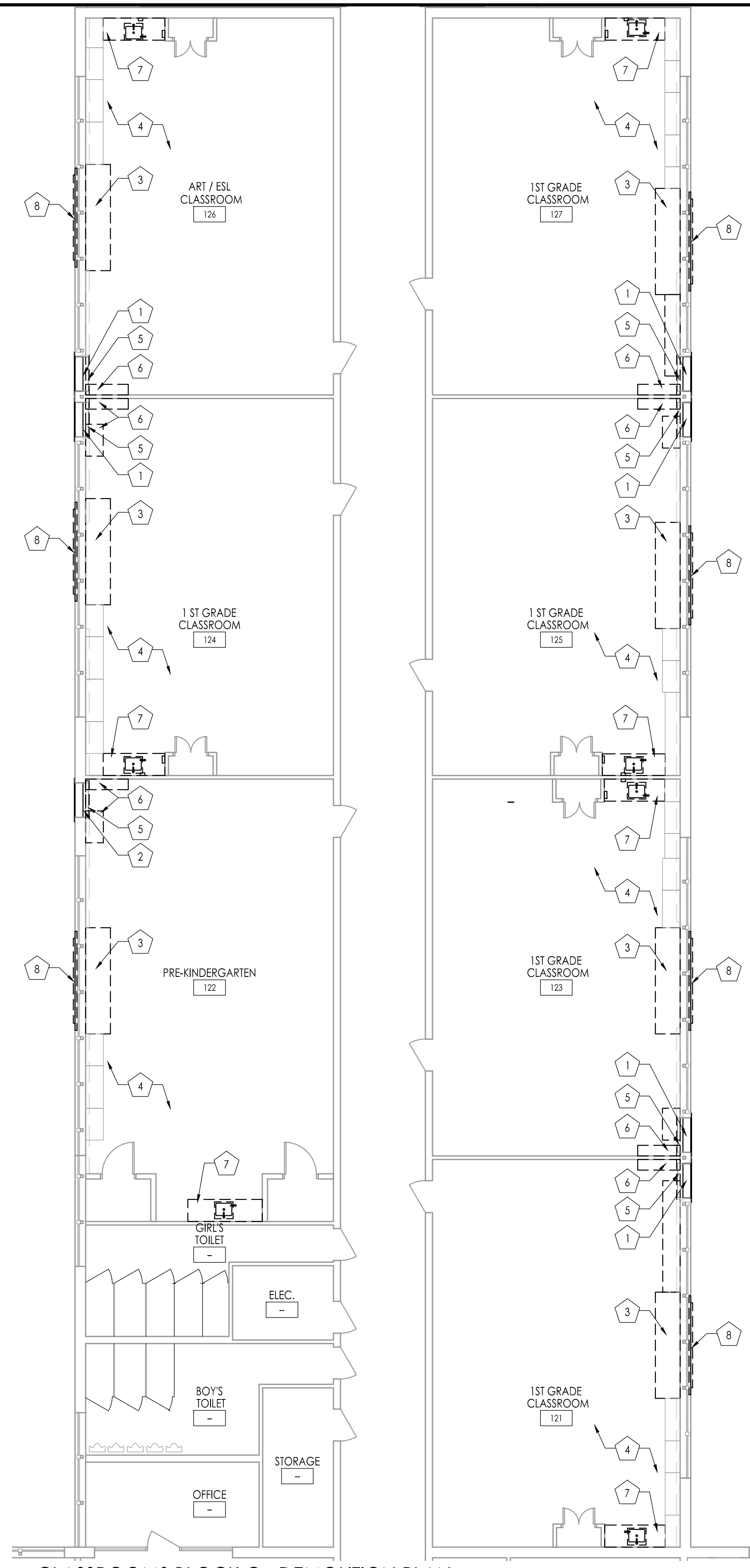
DEMOLITION / RENOVATION NOTES - JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL:

SEE GENERAL NOTES ON DEMOLITION ON DRAWING G002.

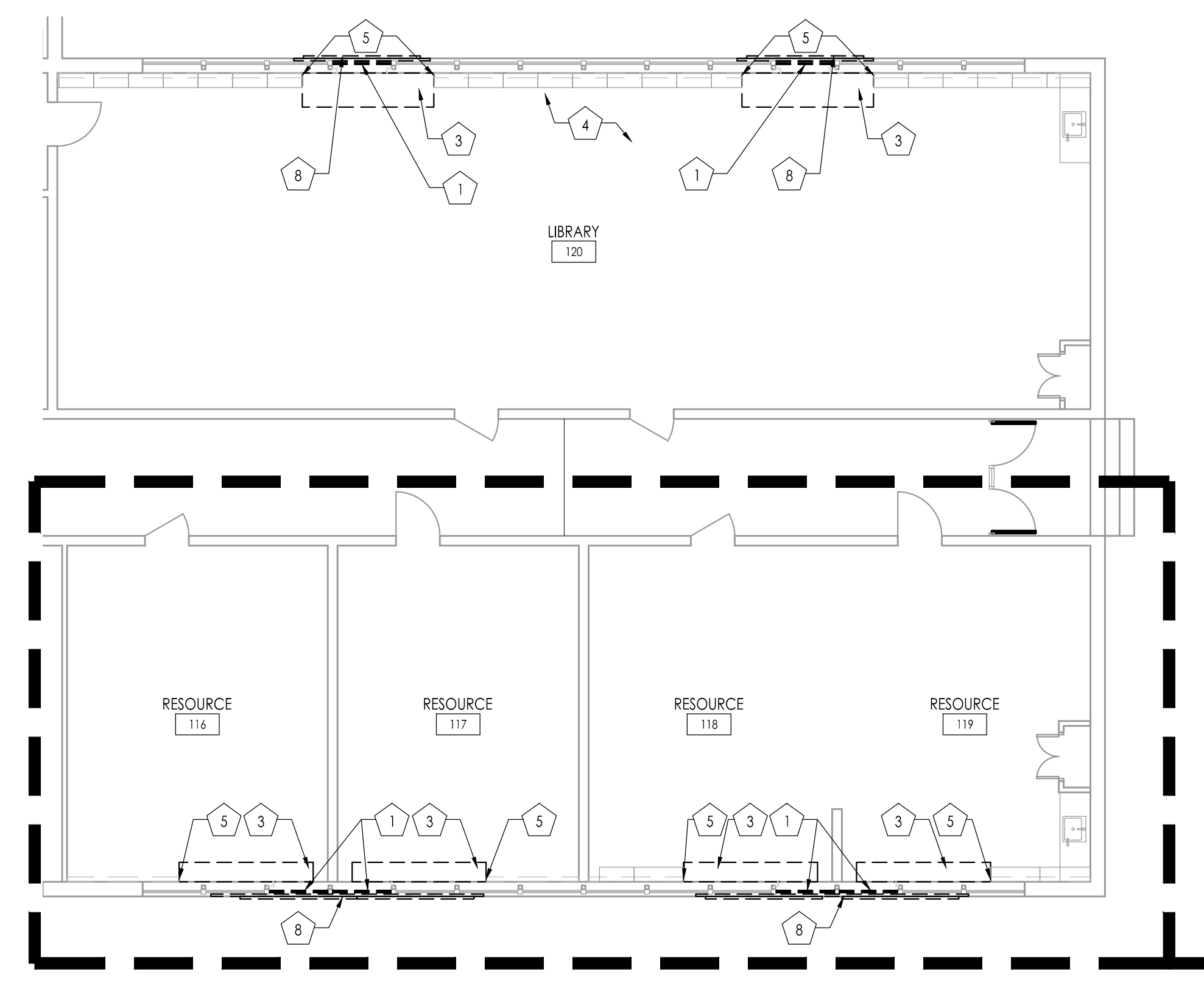
THESE NOTES ARE SPECIFIC TO THE WORK AT JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL AND SHALL NOT BE APPLIED TO WORK AT OTHER SCHOOLS IN THE PROJECT. ALL WORK DESCRIBED IN THESE NOTES IS THE RESPONSIBILITY OF THE GENERAL PRIME CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

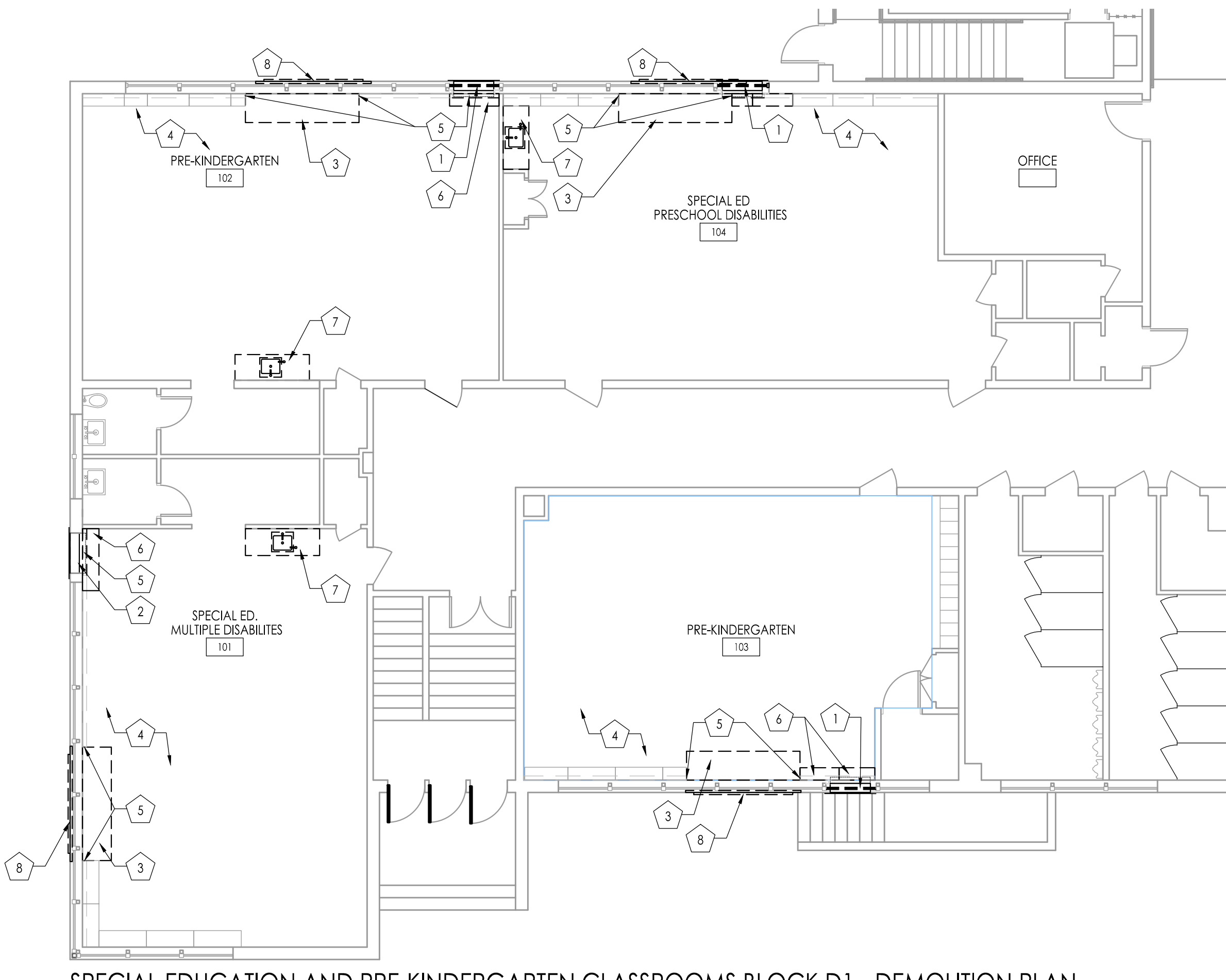
- BRACE AND SHORE UP EXISTING WINDOW SYSTEM TO REMAIN. GENERAL CONTRACTOR TO REMOVE EXISTING GLAZING, HORIZONTAL MULLIONS AND ASSOCIATED CONSTRUCTION AS NECESSARY TO ACCOMMODATE NEW SLEEVE, LOUVER, INSULATED PANEL FRAME AND ASSOCIATED COMPONENTS AS FURNISHED AND INSTALLED BY HVAC CONTRACTOR. COORDINATE SIZES AND LOCATIONS WITH HVAC AND ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR SHALL PROVIDE INSULATION, BACKER RODS, AND SEALANT AROUND SLEEVES AS REQUIRED TO PREVENT AIR AND WATER INFILTRATION.
- BRACE AND SHORE UP EXISTING WALL CONSTRUCTION TO REMAIN. GENERAL CONTRACTOR TO PROVIDE NEW MASONRY OPENING INCLUDING UNITS ASSEMBLY AS REQUIRED TO ACCOMMODATE NEW SLEEVE AND LOUVER AS FURNISHED AND INSTALLED BY HVAC CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE INSULATION, BACKER RODS AND SEALANT AROUND SLEEVE AS REQUIRED TO PREVENT AIR AND WATER INFILTRATION.
- EXISTING UNIT VENTILATORS SHALL BE REMOVED IN THEIR ENTIRETY. THEY SHALL BE DE-ENERGIZED BY ELECTRICAL PRIME CONTRACTOR / DISCONNECTED, DRAINED AND REMOVED BY HVAC PRIME CONTRACTOR. GENERAL PRIME CONTRACTOR SHALL PATCH AND REPAIR ANY AND ALL DAMAGE, INCLUDING BUT NOT LIMITED TO FLOOR AND WALL DAMAGE, RESULTING FROM DEMOLITION AND REMOVAL OF EXISTING UNIT VENTILATOR AND ASSOCIATED APPURTENANCES. MATCH EXISTING ADJACENT FINISHES. FINISH ALL NEWLY EXPOSED SURFACES (WALL, FLOOR, BASE, ETC.) TO MATCH EXISTING ADJACENT SURFACES REMAINING. ABATEMENT WORK ON EXISTING FLOORING SHALL BE PERFORMED BY OTHERS.
- COORDINATE EXTENT OF CEILING REMOVAL WITH PROVISION OF NEW WORK - SEE HVAC DRAWINGS. INDICATED WORK IS ANTICIPATED BASED ON DUCT AND PIPE ROUTINGS. REMOVE AND STORE EXISTING CEILING PANELS, CEILING GRID AND APPLIANCES TO ACCOMMODATE RENOVATION. ANY REMOVAL / REINSTALLATION OUTSIDE OF INDICATED LIMITS IS BY HVAC OR ELECTRICAL PRIME CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CLEAN EXISTING GRID. AFTER RENOVATION IS COMPLETE, REINSTALL (WITH NEW HANGAR WIRE TO EXISTING STRUCTURE) ALL CEILING GRID, CEILING PANELS AND APPLIANCES IN PREVIOUS LOCATIONS UNLESS SUPERSEDED BY REFLECTED CEILING PLAN OR HVAC / ELECTRICAL DRAWINGS. REPLACE ALL DAMAGED OR DETERIORATED CEILING PANELS AND GRID WITH NEW TO MATCH EXISTING. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT SURFACES. ALL HVAC / ELECTRICAL WORK, INCLUDING DEMOLITION, PATCHING & REPAIR, RE-INSTALLATION AND RE-CONNECTION SHALL BE BY RESPECTIVE TRADE CONTRACTOR.
- EXISTING FINNED TUBE RADIATORS AND ASSOCIATED PIPING SHALL BE DISCONNECTED. AT LOCATION OF NEW UNIT VENTILATOR, MODIFY EXISTING FIN TUBE RADIATORS. SEE HVAC DRAWINGS AND SPECIFICATIONS.
- WHERE INDICATED REMOVE, SALVAGE, STORE, AND REINSTALL EXISTING CASEWORK, TO ACCOMMODATE RENOVATIONS. COORDINATE EXTENT OF CASEWORK REMOVAL WITH PROVISION OF SCOPE OF NEW WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT SURFACES. ALL WORK, INCLUDING DEMOLITION, PATCHING & REPAIR, AND RE-INSTALLATION OF CASEWORK SHALL BE PERFORMED BY GENERAL CONTRACTOR.
- SEE ARCHITECTURAL DRAWING A106 FOR SINK REPLACEMENT.
- IN ALL LOCATIONS OF EXISTING UNIT VENTILATOR OUTSIDE AIR GRILLES, REMOVE EXISTING GRILLE. CLOSE AND PATCH OPENINGS WITH NEW INSULATION AND INTERIOR FINISH. PAINT EXPOSED INTERIOR SURFACES TO MATCH EXISTING ADJACENT WALL. SCRAPE, CLEAN, PRIME, PAINT AND REINSTALL EXISTING GRILLE. SEE WALL SECTION 9/A201 FOR CONDITION AT EXISTING LOUVER WALL SECTION 9/A201 FOR CONDITION AT EXISTING BRICK.



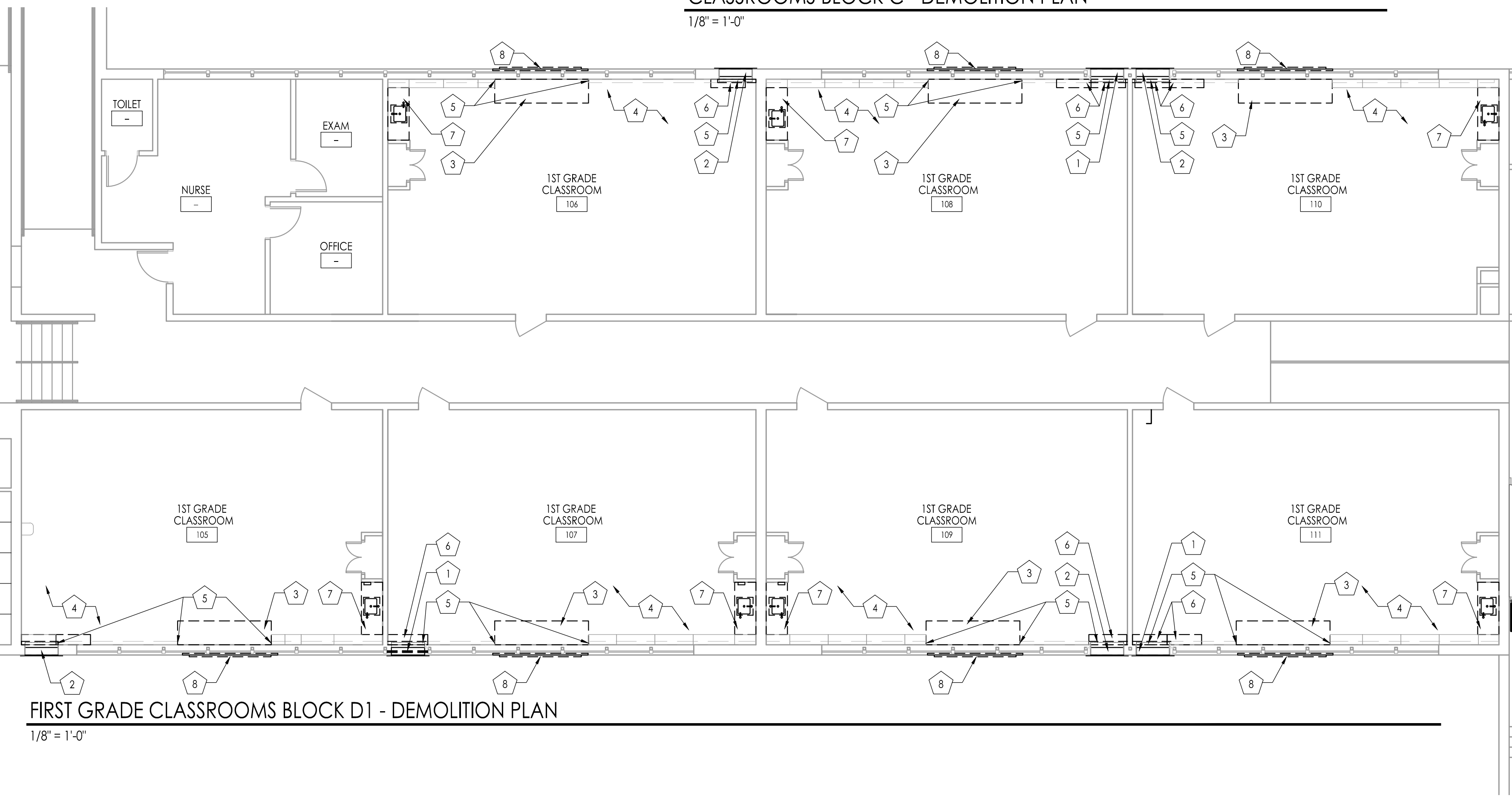
CLASSROOMS BLOCK C - DEMOLITION PLAN
1/8" = 1'-0"



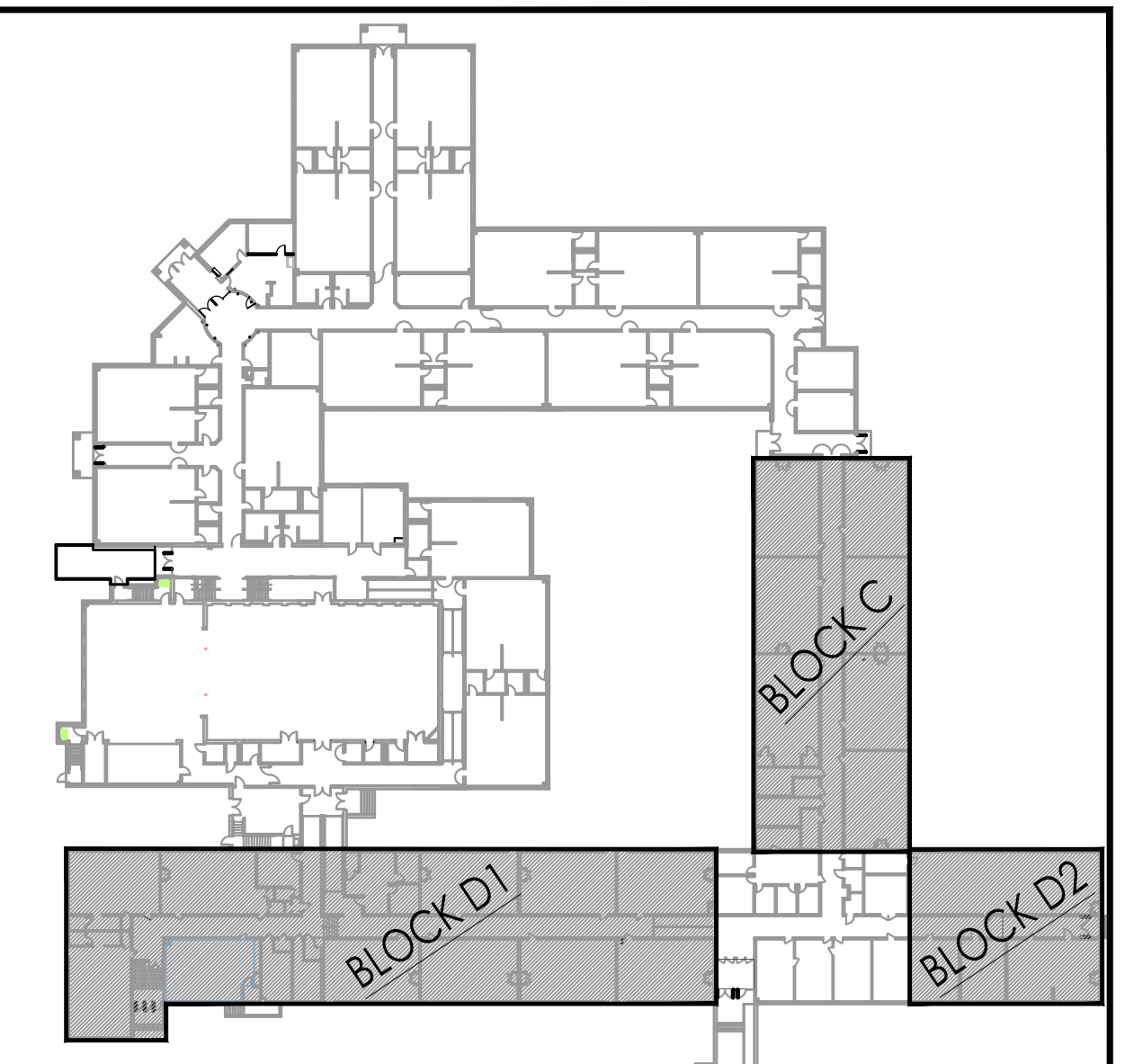
LIBRARY & RESOURCE ROOMS BLOCK D2 - DEMOLITION PLAN
1/8" = 1'-0"



SPECIAL EDUCATION AND PRE-KINDERGARTEN CLASSROOMS BLOCK D1 - DEMOLITION PLAN
1/8" = 1'-0"



FIRST GRADE CLASSROOMS BLOCK D1 - DEMOLITION PLAN
1/8" = 1'-0"



KEY PLAN
1/64" = 1'-0"

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 5801 3rd ST MAYS LANDING, NJ 08330

Project Number: 4937B

Project Date: 02.15.2019

Checked By: JJV

Drawn By: HJ

Scale: AS NOTED

Drawing Name: DEMOLITION PLAN LAYOUT & NOTES BASE BID

Block C, Block D1, Block D2

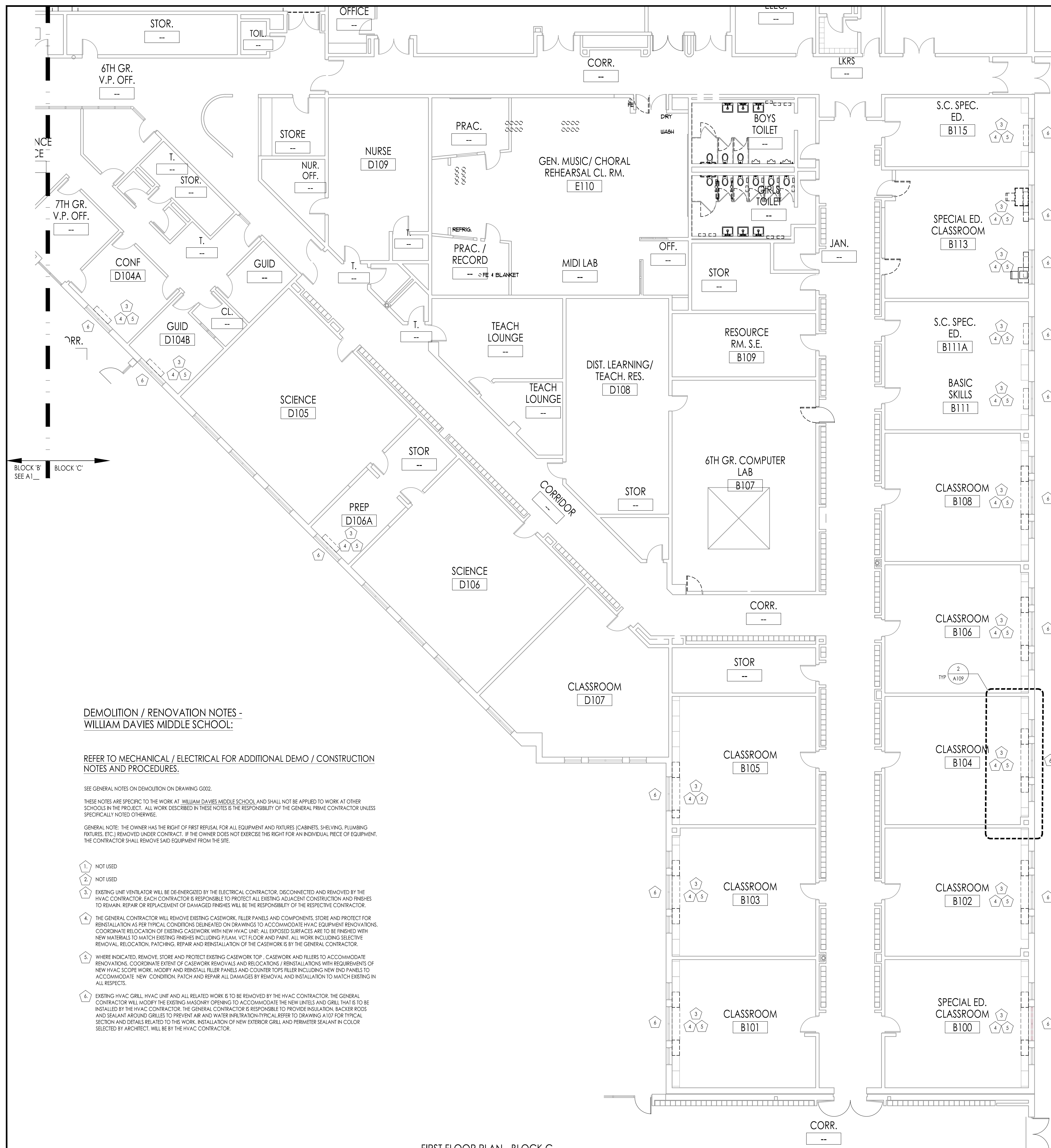
Revisions: No. Date Description

Drawing Number: A109

John J. Veisz, AIA, CSBA
No. 214686000 PA - 84201818
William D. Hopkins III, AIA, LEED AP
No. 214686000 PA - 84202204
George R. Duthie, Jr., AIA, PP
No. 214686000

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17043

F V H D P C - C O M



FIRST FLOOR PLAN - BLOCK C
Scale: 1/8" = 1'-0"

DEMOLITION / RENOVATION NOTES - WILLIAM DAVIES MIDDLE SCHOOL:

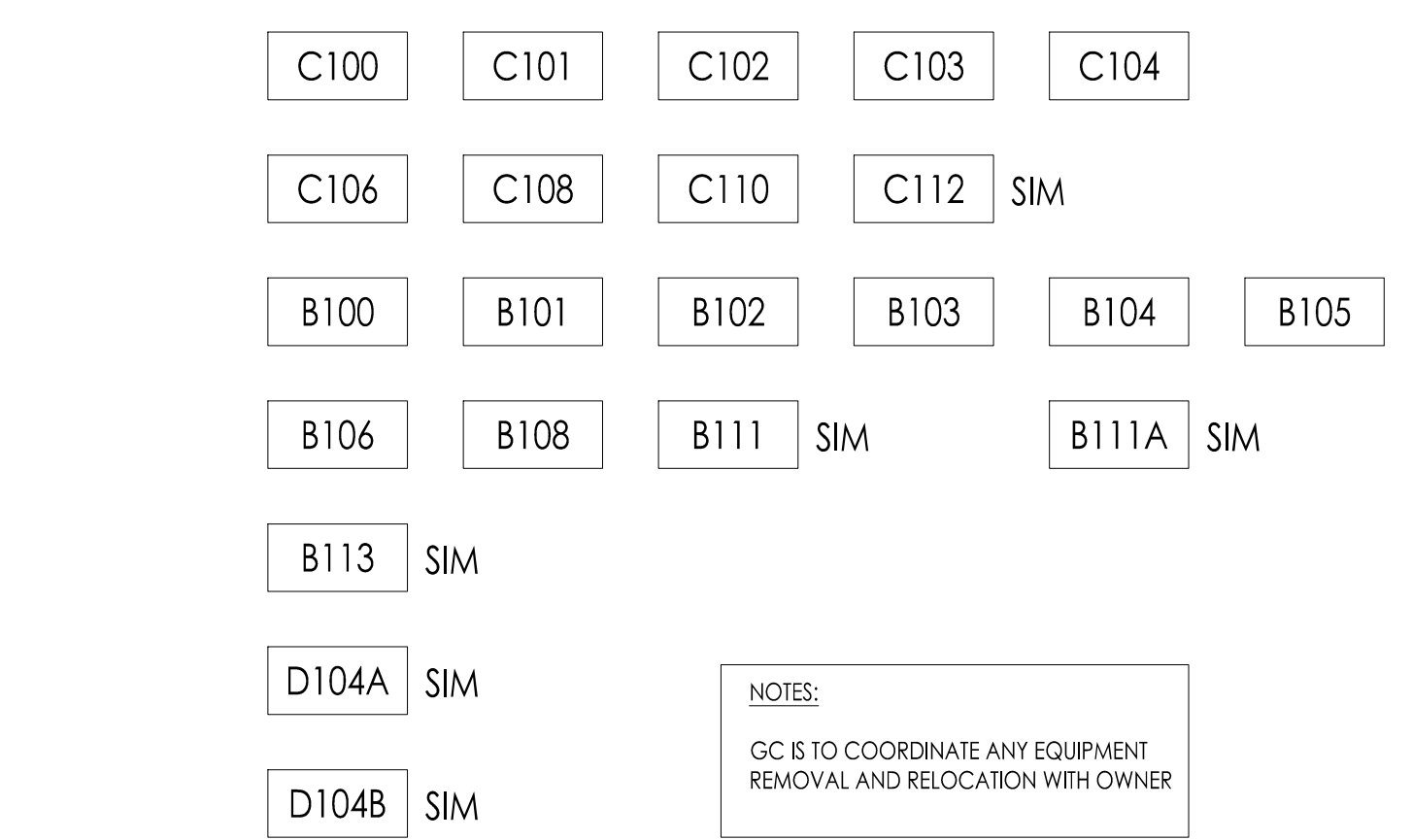
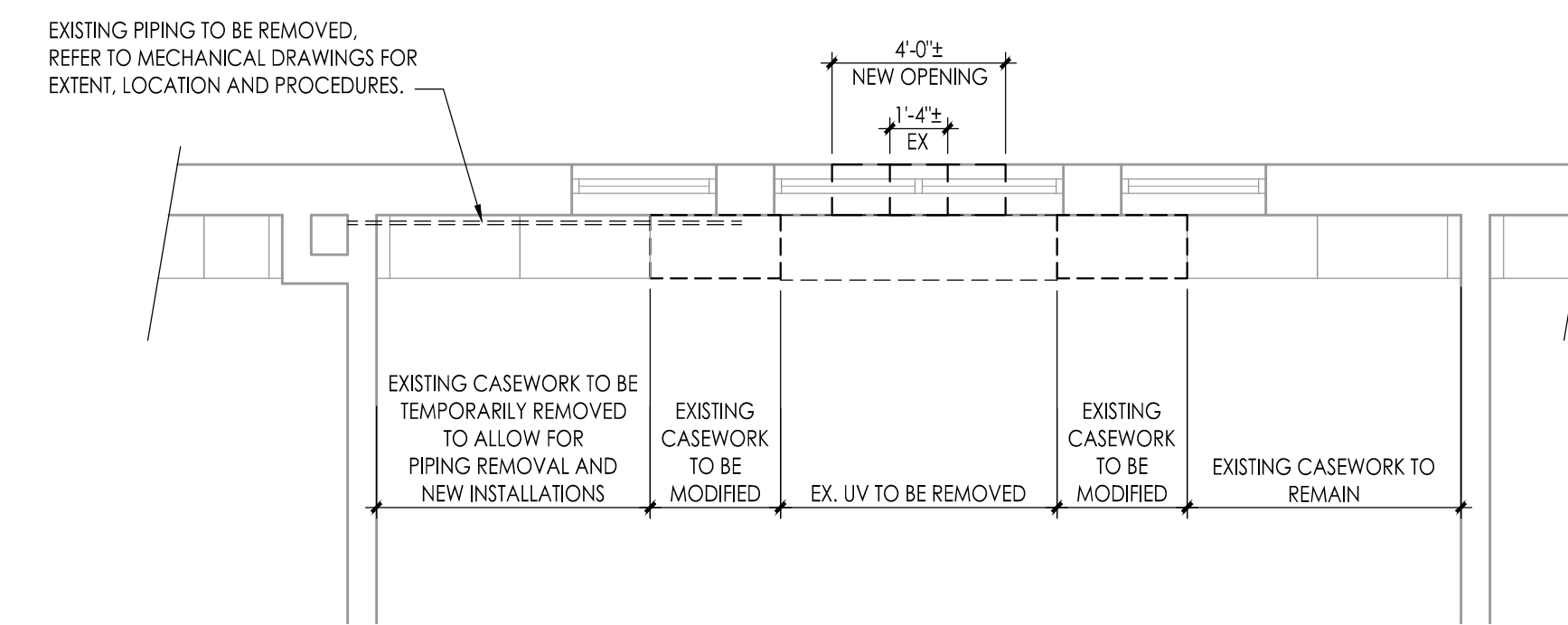
REFER TO MECHANICAL / ELECTRICAL FOR ADDITIONAL DEMO / CONSTRUCTION NOTES AND PROCEDURES.

SEE GENERAL NOTES ON DEMOLITION ON DRAWING G002.

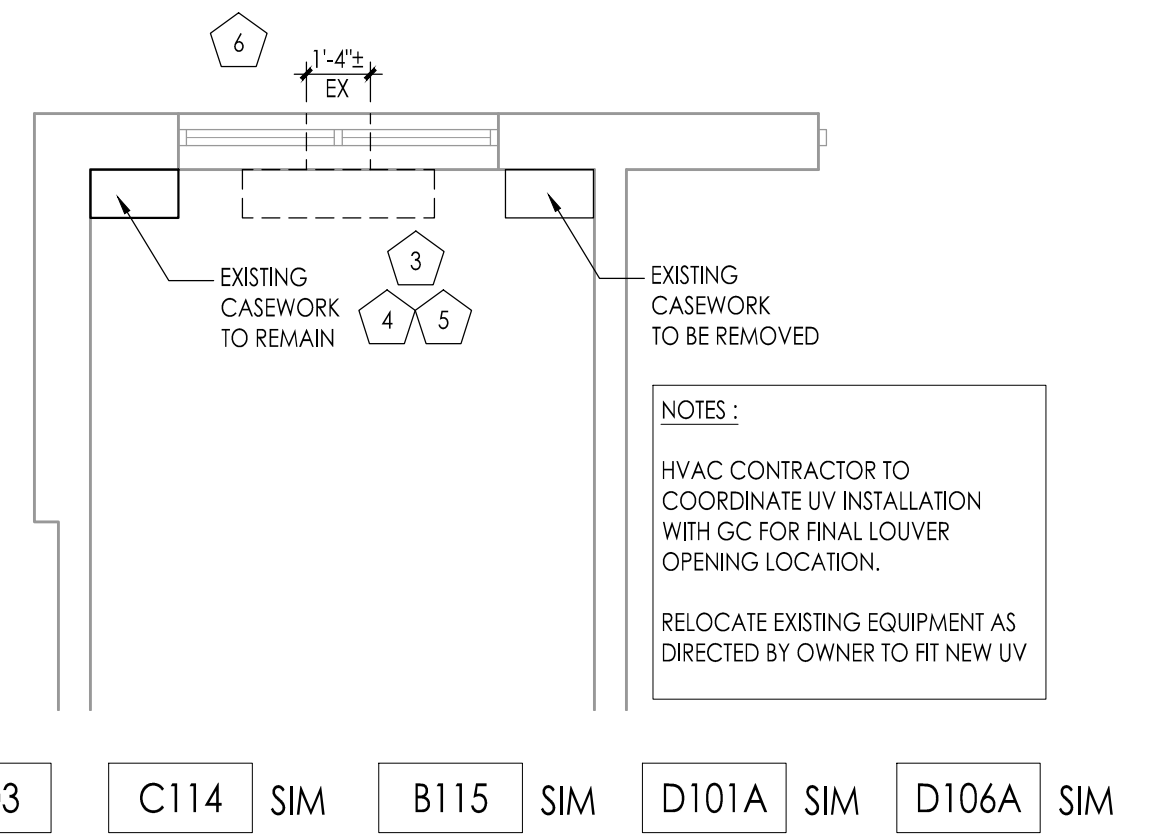
THESE NOTES ARE SPECIFIC TO THE WORK AT WILLIAM DAVIES MIDDLE SCHOOL AND SHALL NOT BE APPLIED TO WORK AT OTHER SCHOOLS IN THE PROJECT. ALL WORK DESCRIBED IN THESE NOTES IS THE RESPONSIBILITY OF THE GENERAL PRIME CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

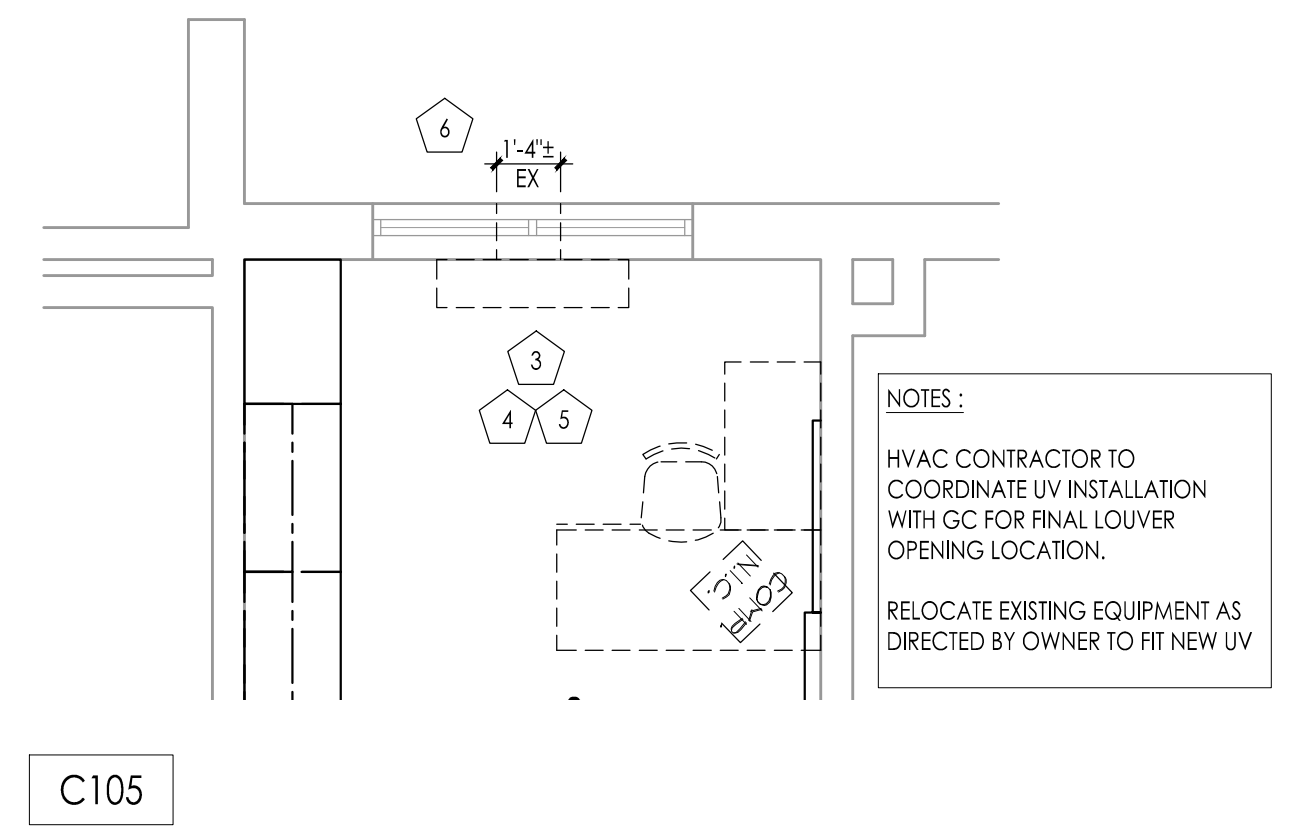
- 1. NOT USED
- 2. NOT USED
- 3. EXISTING UNIT VENTILATOR WILL BE DE-ENERGIZED BY THE ELECTRICAL CONTRACTOR, DISCONNECTED AND REMOVED BY THE HVAC CONTRACTOR. EACH CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING ADJACENT CONSTRUCTION AND FINISHES TO REMAIN, REPAIR OR REPLACEMENT OF DAMAGED FINISHES WILL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR.
- 4. THE GENERAL CONTRACTOR WILL REMOVE EXISTING CASEWORK, FILLER PANELS AND COMPONENTS, STORE AND PROTECT FOR REINSTALLATION AS PER TYPICAL CONDITIONS DELINEATED ON DRAWINGS TO ACCOMMODATE HVAC EQUIPMENT RENOVATIONS. COORDINATE RELOCATION OF EXISTING CASEWORK WITH NEW HVAC UNIT. ALL EXPOSED SURFACES ARE TO BE FINISHED WITH NEW MATERIALS TO MATCH EXISTING FINISHES INCLUDING FLOOR, VCT FLOOR AND PAINT. ALL WORK INCLUDING SELECTIVE REMOVAL, RELOCATION, PATCHING, REPAIR AND REINSTALLATION OF THE CASEWORK IS BY THE GENERAL CONTRACTOR.
- 5. WHERE INDICATED, REMOVE, STORE AND PROTECT EXISTING CASEWORK TOP, CASEWORK AND FILLERS TO ACCOMMODATE RENOVATIONS. COORDINATE EXTENT OF CASEWORK REMOVALS AND RELOCATIONS / REINSTALLATIONS WITH REQUIREMENTS OF NEW HVAC SCOPE WORK. MODIFY AND REINSTALL FILLER PANELS AND COUNTER TOPS FILLER INCLUDING NEW END PANELS TO ACCOMMODATE NEW CONDITION, PATCH AND REPAIR ALL DAMAGES BY REMOVAL AND INSTALLATION TO MATCH EXISTING IN ALL RESPECTS.
- 6. EXISTING HVAC GRILL, HVAC UNIT AND ALL RELATED WORK IS TO BE REMOVED BY THE HVAC CONTRACTOR. THE GENERAL CONTRACTOR WILL MODIFY THE EXISTING MASONRY OPENING TO ACCOMMODATE THE NEW UNITS AND GRILL THAT IS TO BE INSTALLED BY THE HVAC CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE INSULATION, BACKER RODS AND SEALANT AROUND GRILLES TO PREVENT AIR AND WATER INFILTRATION-TYPICAL REFER TO DRAWING A107 FOR TYPICAL SECTION AND DETAILS RELATED TO THIS WORK. INSTALLATION OF NEW EXTERIOR GRILL AND PERIMETER SEALANT IN COLOR SELECTED BY ARCHITECT, WILL BE BY THE HVAC CONTRACTOR.



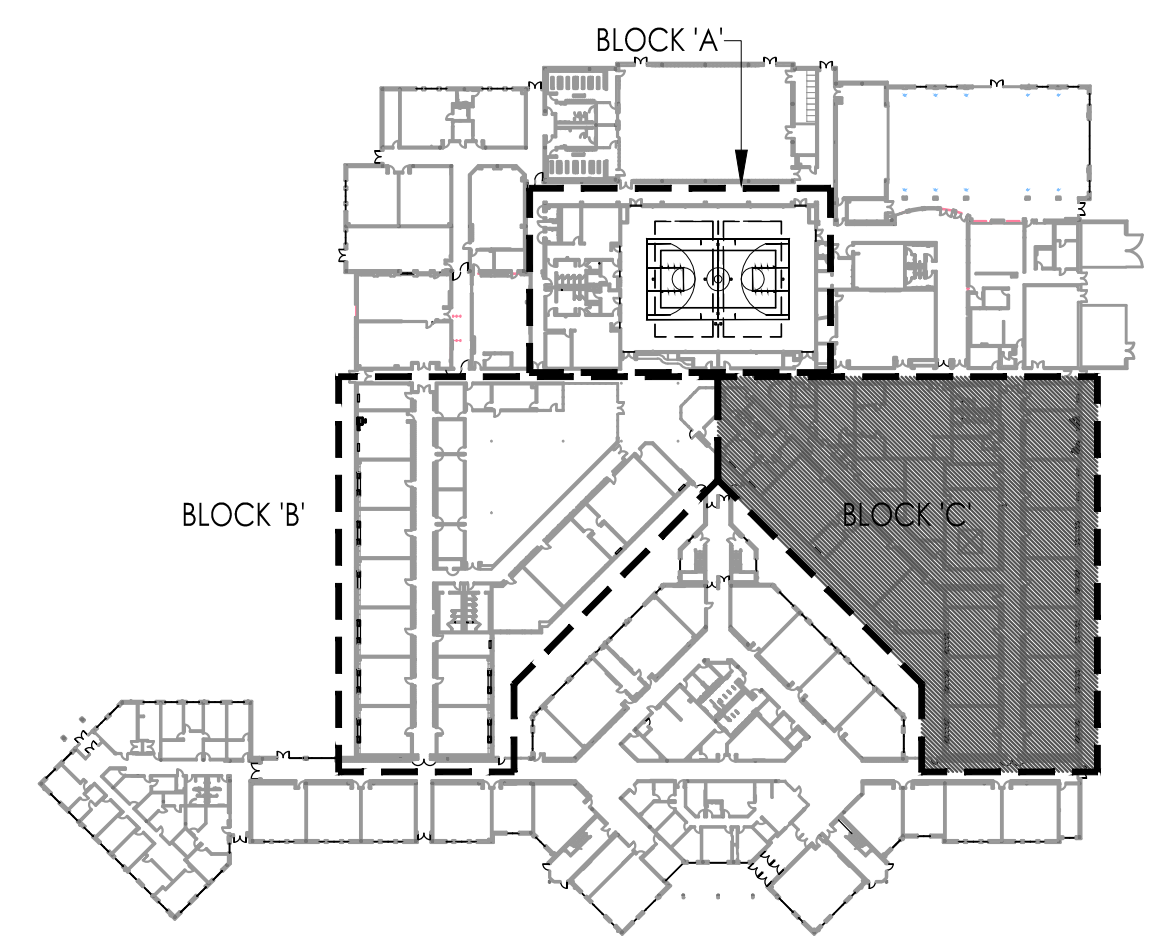
2. UV / CASEWORK - DEMOLITION PLAN (TYPICAL)
SCALE: 1/4" = 1'-0"



3. UV / CASEWORK - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



4. UV / CASEWORK - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



FVHD architects planners
Fraytak Veisz Hopkins Dutrie P.C.
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - North Cape - Pennsylvania 17433

Project Number: 4937C
Project Date: 02.15.2019
Checked By: JJV
Drawn By: KM
Scale: AS NOTED

Project Name:
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name:
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location:
**1876 DENNIS FORMAN DR
MAYS LANDING,
NJ 08330**

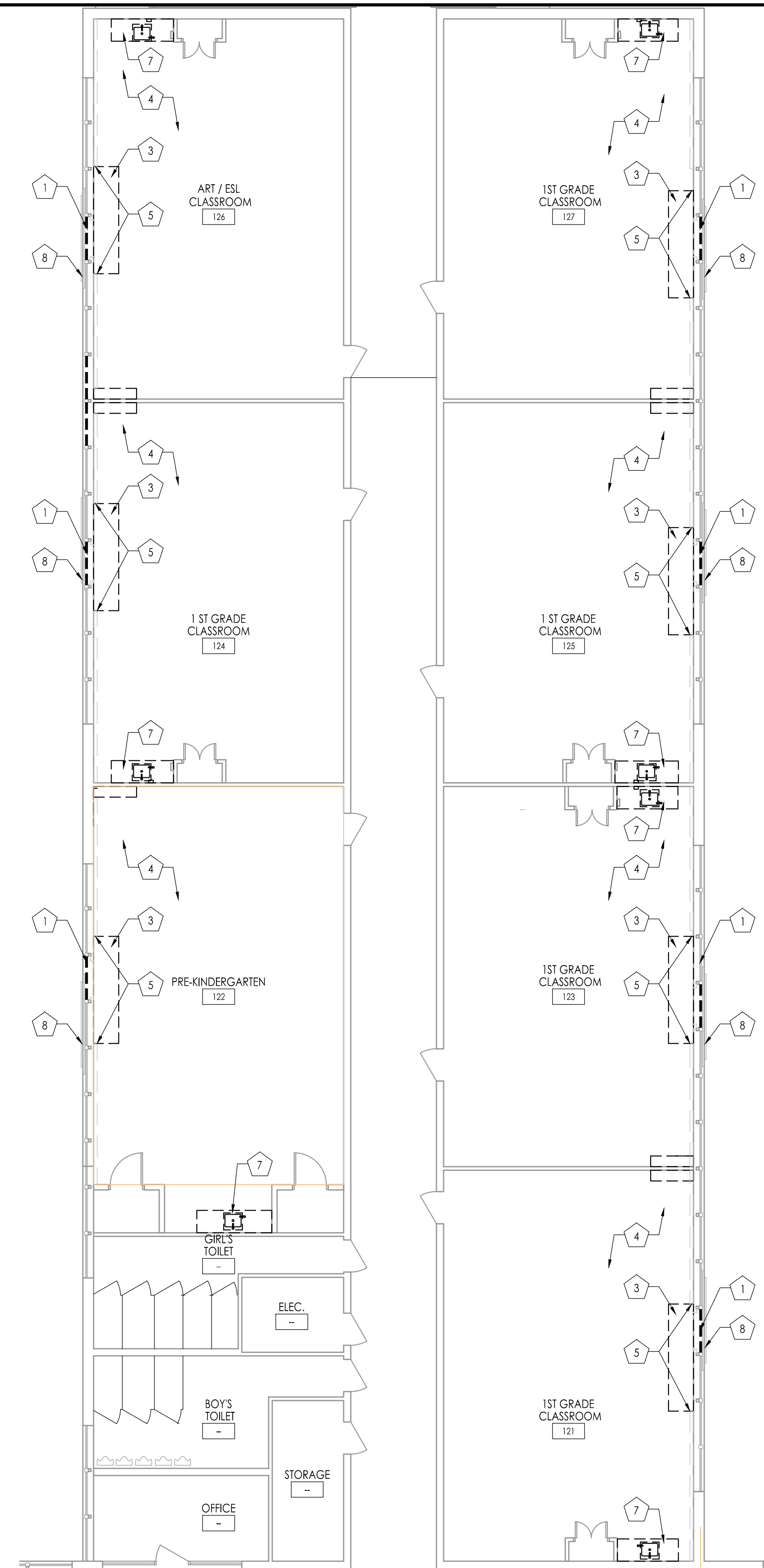
Project Number:
4937C
Project Date:
02.15.2019
Checked By:
JJV
Drawn By:
KM
Scale:
AS NOTED

Drawing Name:
PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN

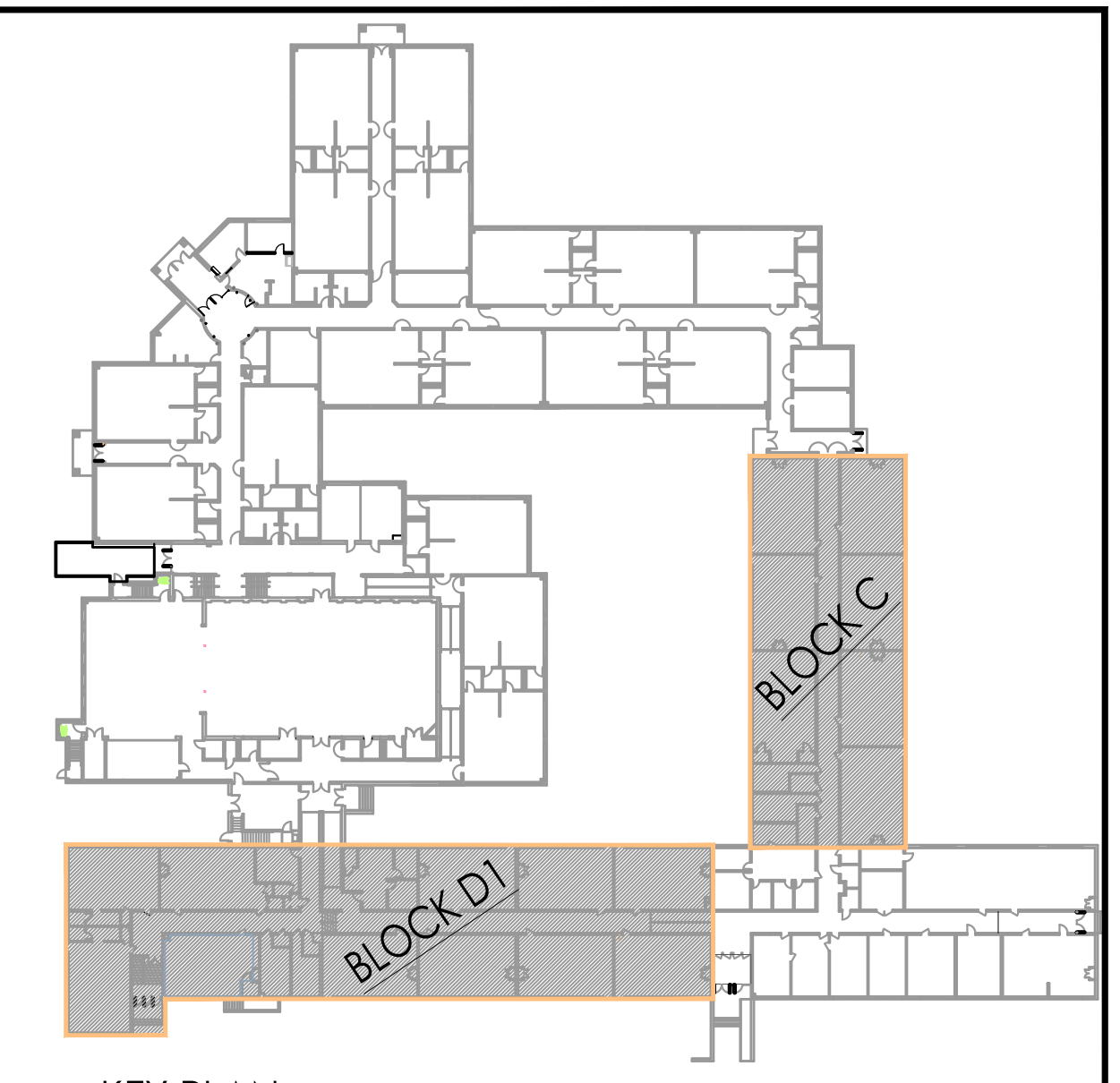
BLOCK C

Revisions	No.	Date	Description

Drawing Number:
A109

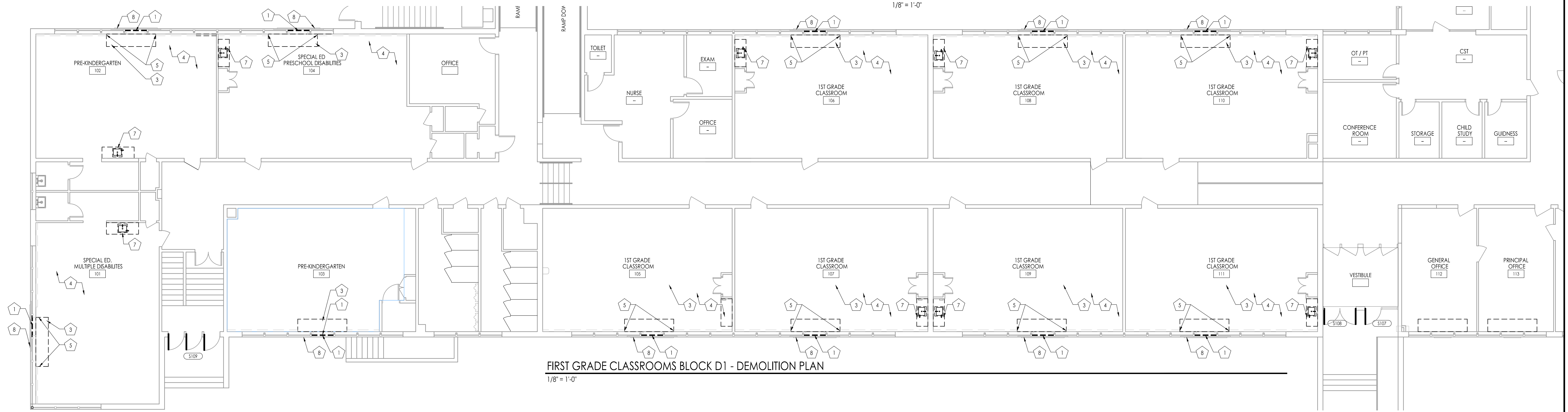


CLASSROOMS BLOCK C - DEMOLITION PLAN
1/8" = 1'-0"



KEY PLAN
1/64" = 1'-0"

REFER TO SHEET A109 FOR DEMOLITION NOTES.



FIRST GRADE CLASSROOMS BLOCK D1 - DEMOLITION PLAN
1/8" = 1'-0"

SPECIAL EDUCATION AND PRE-KINDERGARTEN CLASSROOMS BLOCK D1 - DEMOLITION PLAN
1/8" = 1'-0"

JOHN J. VEISZ, AIA, CSBA
 NU-214866001 PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NU-214866001 PA-84202004
 GEORGE R. DUTHIE, JR., AIA, PP
 NU-214866001 PA-84202000

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie PC
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whittaker Ave - Mont Clare - Pennsylvania 17433

F V H D P C - C O M
 Date: _____
 Approved: _____

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**5801 3rd ST
 MAYS LANDING,
 NJ 08330**

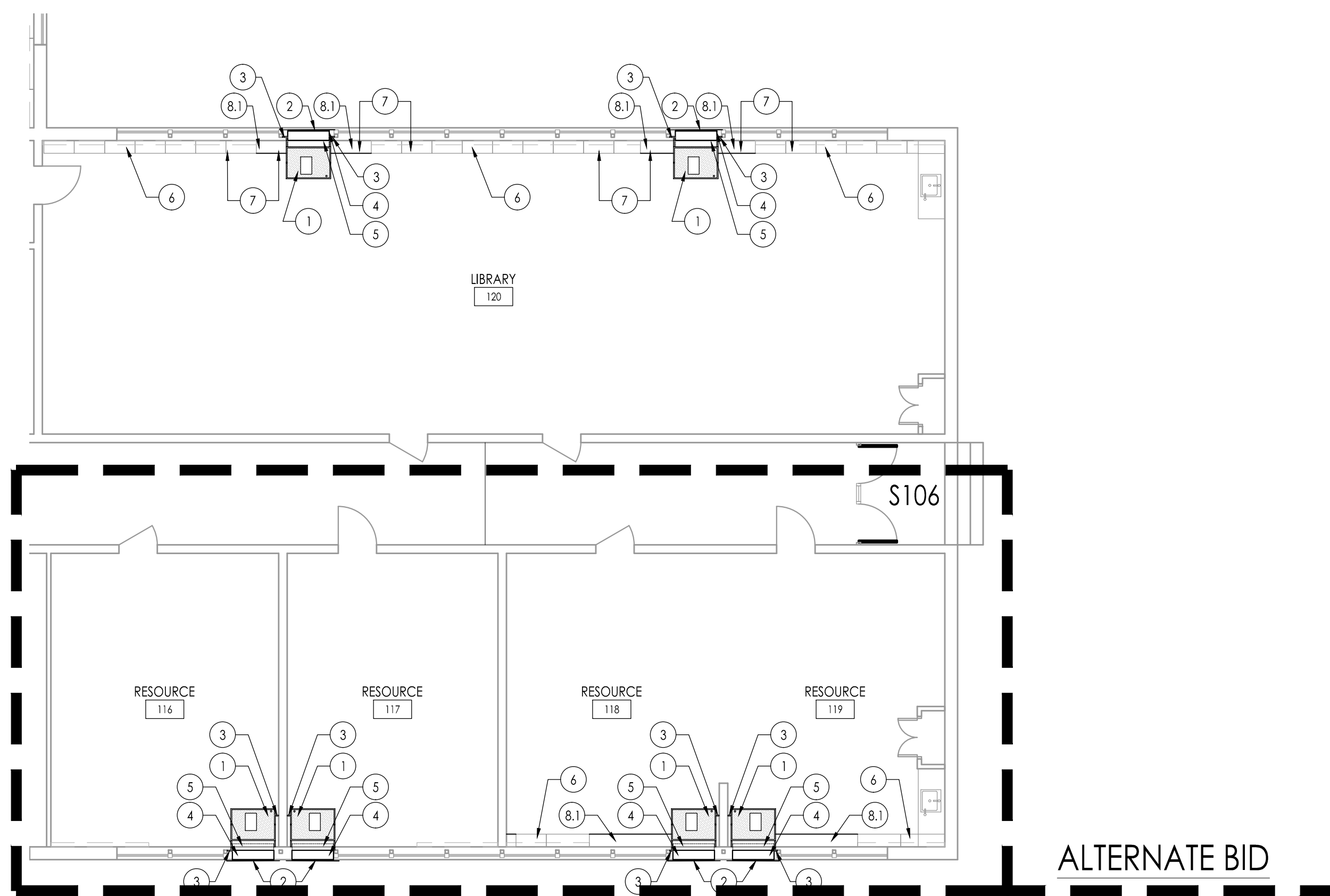
Project Number
4937B
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
HJ
 Scale
AS NOTED

Drawing Name
DEMOLITION PLAN LAYOUT & NOTES ALTERNATE BID

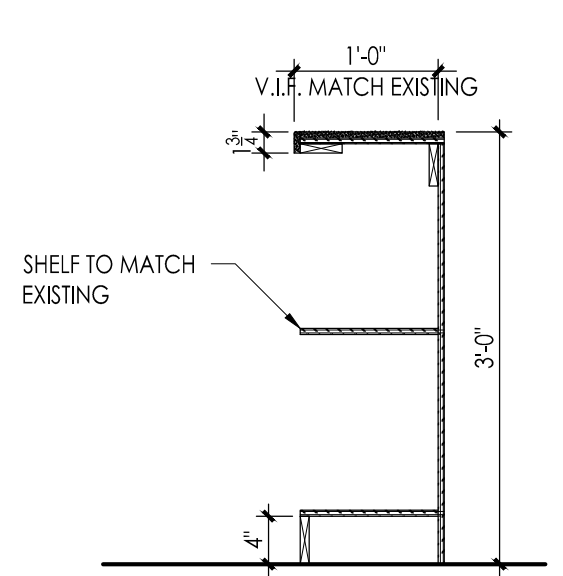
**BLOCK C
 BLOCK D1**

Revisions		
No.	Date	Description

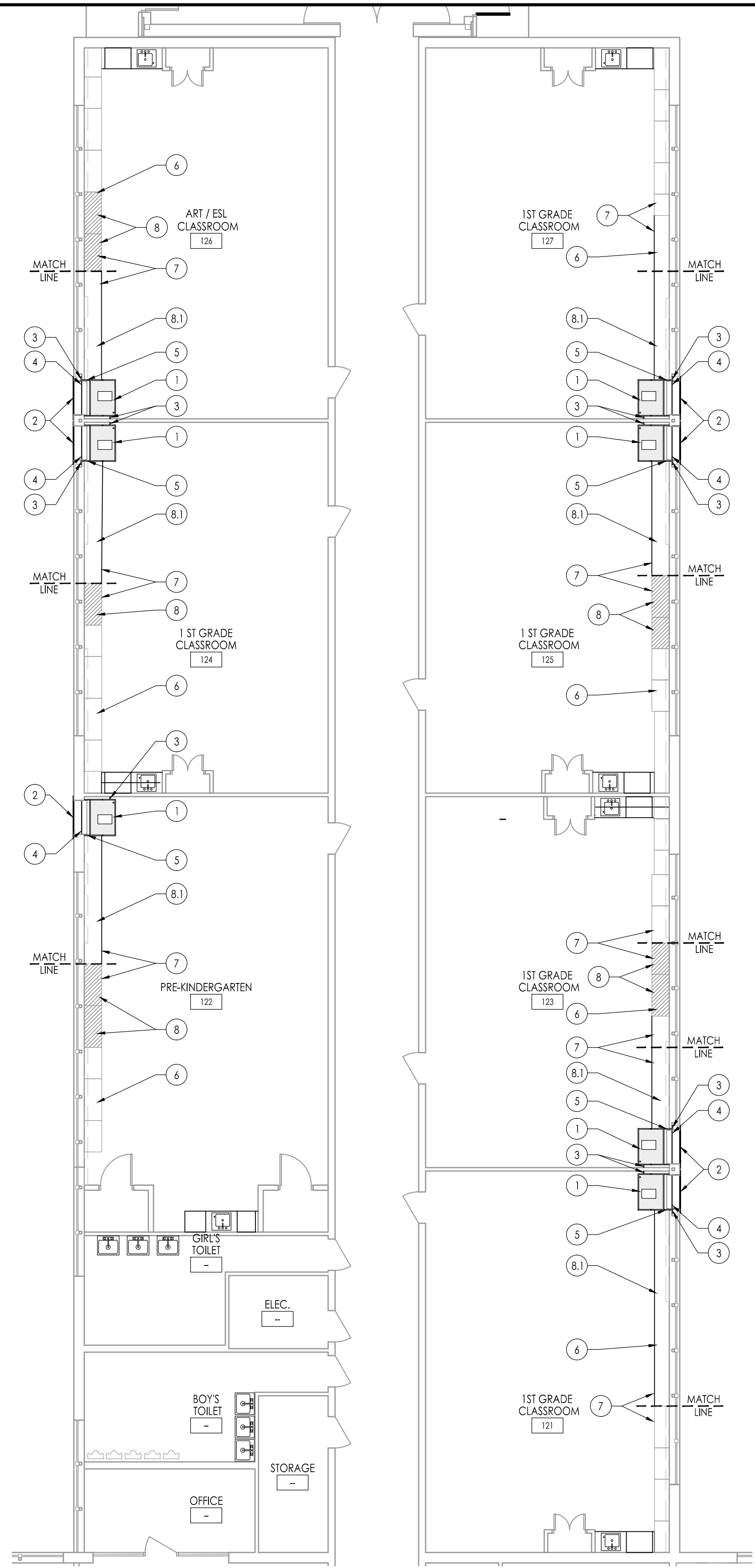
Drawing Number
A109a



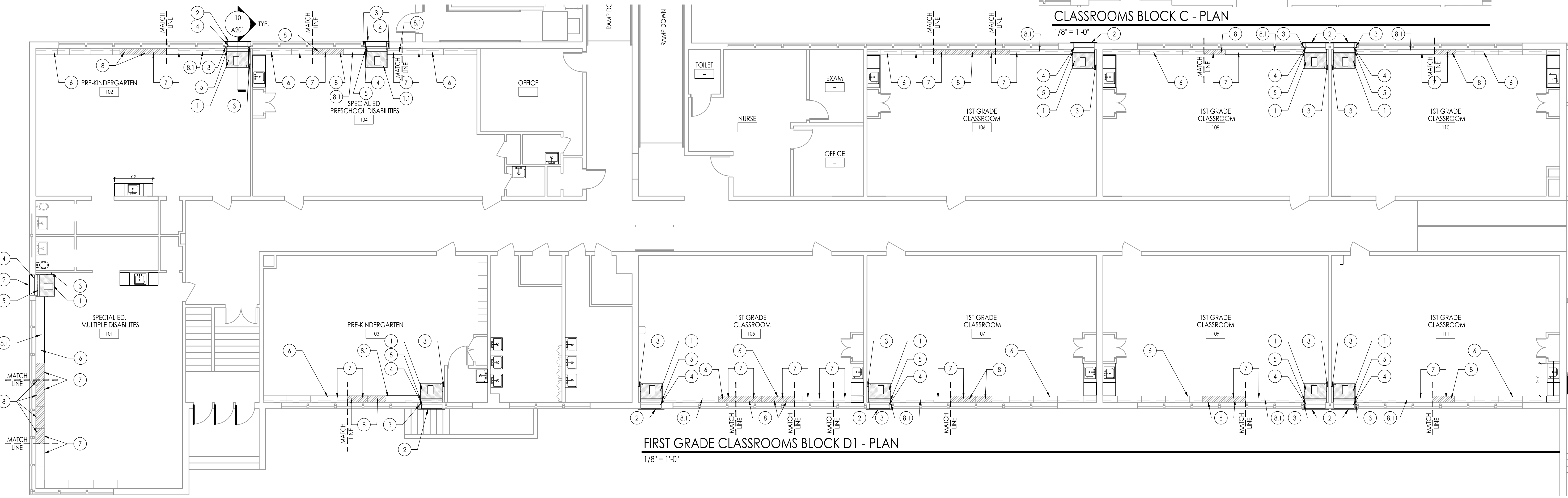
LIBRARY & RESOURCE ROOMS BLOCK D2 - PLAN
1/8" = 1'-0"



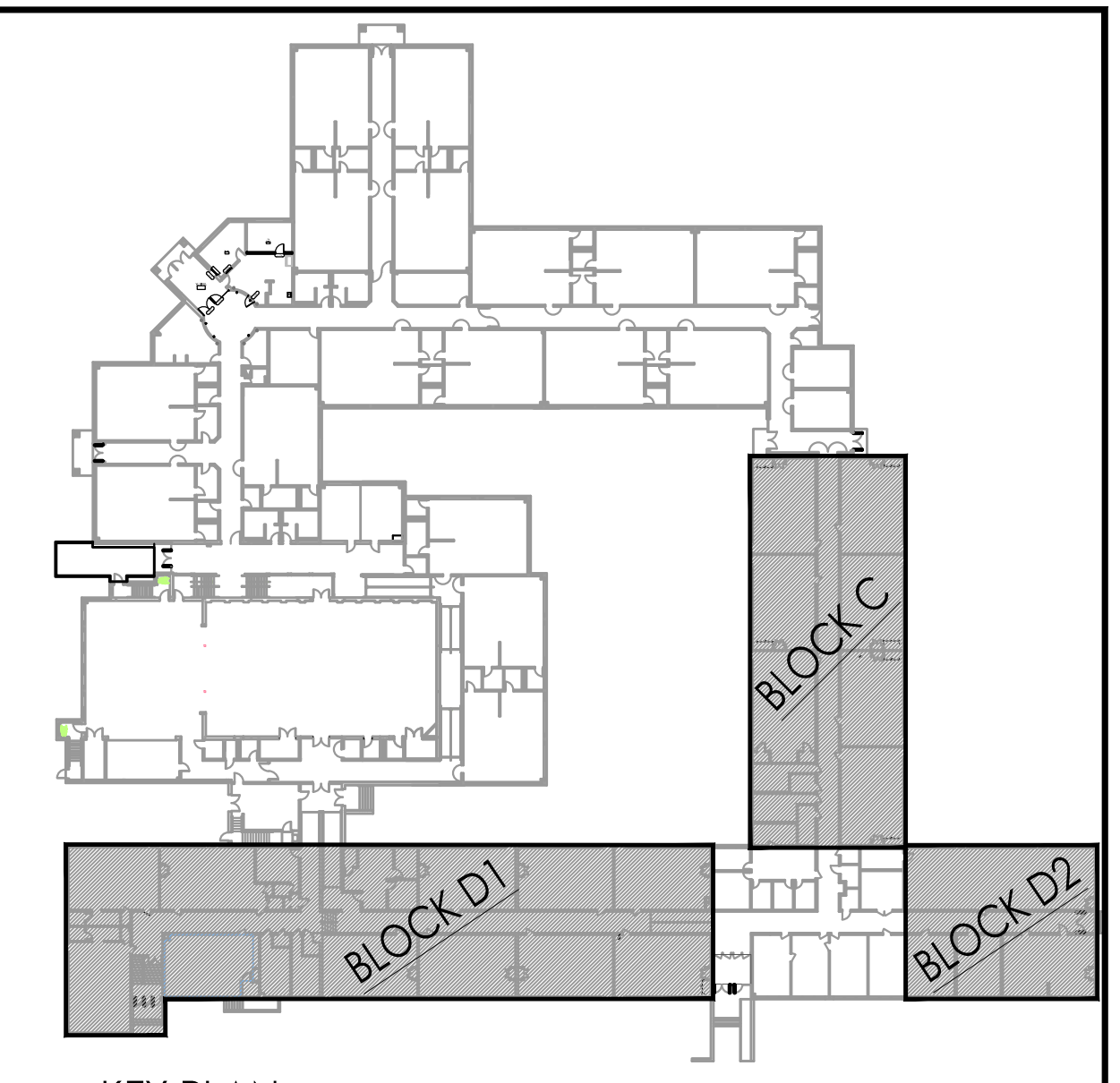
SECTION @ NEW CASEWORK
3/4" = 1'-0"



CLASSROOMS BLOCK C - PLAN
1/8" = 1'-0"



SPECIAL EDUCATION AND PRE-KINDERGARTEN CLASSROOMS BLOCK D1 - PLAN
1/8" = 1'-0"



KEY PLAN
1/64" = 1'-0"

- NEW WORK NOTES - JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL:
SEE GENERAL NOTES ON DRAWING G-002.
- THESE NOTES ARE SPECIFIC TO THE WORK AT JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL AND SHALL NOT BE APPLIED TO WORK AT OTHER SCHOOLS IN THE PROJECT. ALL WORK DESCRIBED IN THESE NOTES IS THE RESPONSIBILITY OF THE GENERAL PRIME CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- NEW VERTICAL UNIT VENTILATOR OFFSET FROM WALL MIN. 3" - REFER TO HVAC DWGS.
 - NEW VERTICAL UNIT VENTILATOR - ALTERNATE BID
 - FILLER PANEL @ SIDE: INSET FROM FRONT TO CLEAR RETURN AIR INLET & RUN FULL HEIGHT OF UNIT AND PLENUM TO MATCH V.U.V. - FURNISHED AND INSTALLED BY HVAC PRIME CONTRACTOR (TYP.)
 - NEW WALL SLEEVE TO BE CONNECTED TO LOUVER AND INSULATED PANEL FURNISHED AND INSTALLED BY HVAC CONTRACTOR.
 - REAR EXTENSION & FILLER PANEL TO CLOSE GAP TO EXIST WINDOW MULLION - FINISH TO MATCH V.U.V. - FURNISHED & INSTALLED BY HVAC CONTRACTOR (TYP.)
 - NEW CONT. COUNTER TOP
 - FACE OF CABINETS TO ALIGN
 - LOCATION OF RELOCATED CABINET - ALIGN TO INDICATED MATCH LINE
8.1. NEW INFILL CABINETS VERIFY DIMENSIONS IN FIELD.

LEGEND
 EXISTING CABINET TO BE RELOCATED

JOHN J. VEISZ, AIA, CSBA
 NU-214866400 | PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NU-214866400 | PA-84202524
 GEORGE K. DUTHIE, JR., AIA, PP
 NU-214866400

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P.C.
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whittaker Ave - Mont Clare - Pennsylvania 17433

F V H D P C . C O M

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**5801 3rd ST
 MAYS LANDING,
 NJ 08330**

Project Number
4937B

Project Date
02.15.2019

Checked By
JJV

Drawn By
HJ

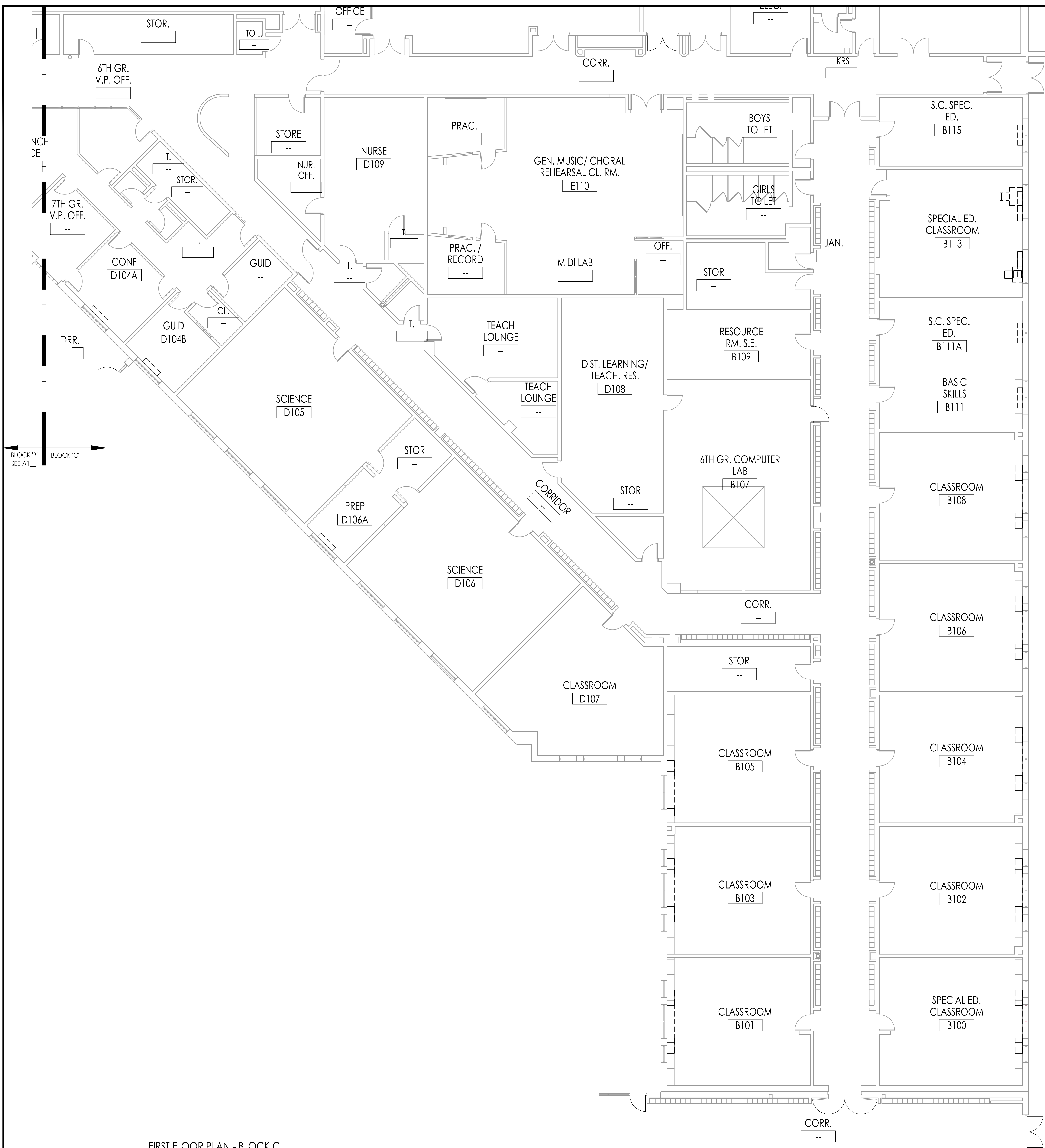
Scale
AS NOTED

Drawing Name
FLOOR PLAN LAYOUT & NOTES BASE BID

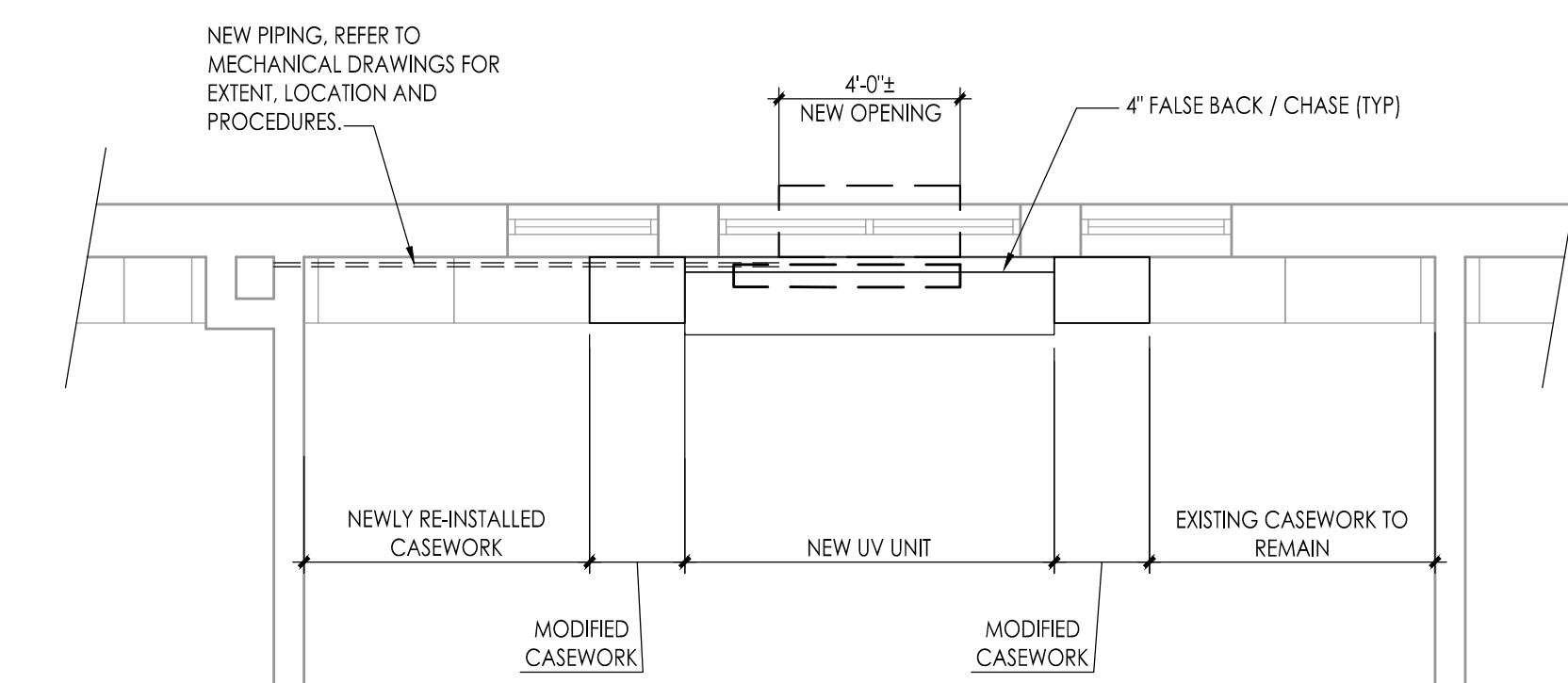
**BLOCK C
 BLOCK D2
 BLOCK D2**

Revisions	No.	Date	Description

Drawing Number
A110



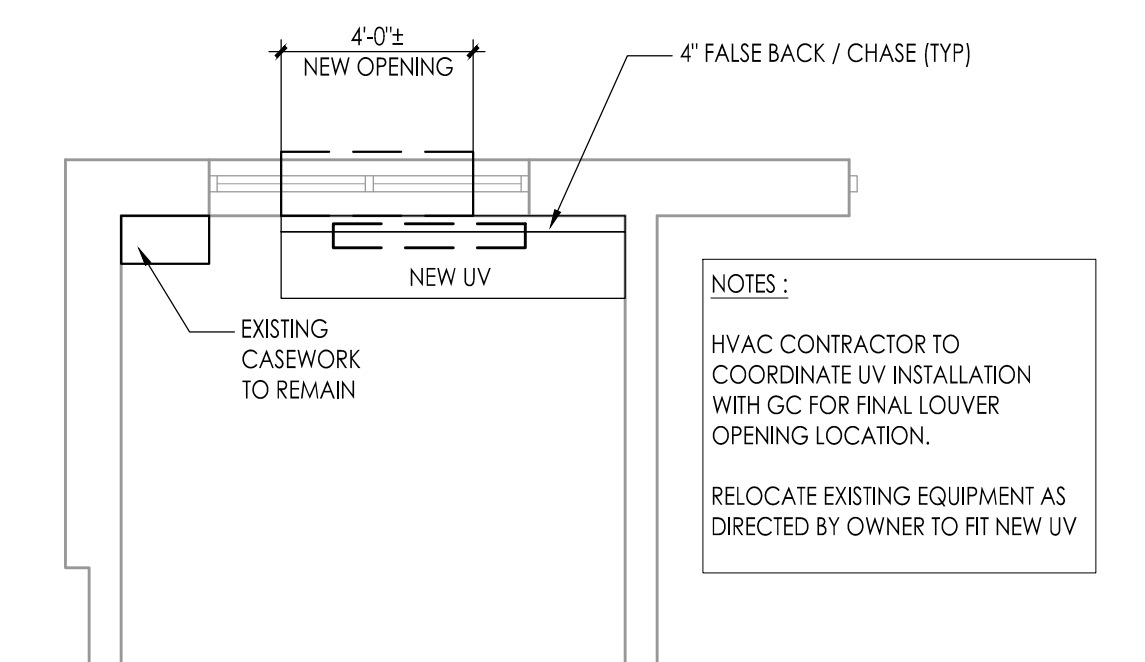
FIRST FLOOR PLAN - BLOCK C
Scale: 1/8" = 1'-0"



C100	C101	C102	C103	C104	
C106	C108	C110	C112	SIM	
B100	B101	B102	B103	B104	B105
B106	B108	B111	SIM	B111A	SIM
B113	SIM				
D104A	SIM				
D104B	SIM				

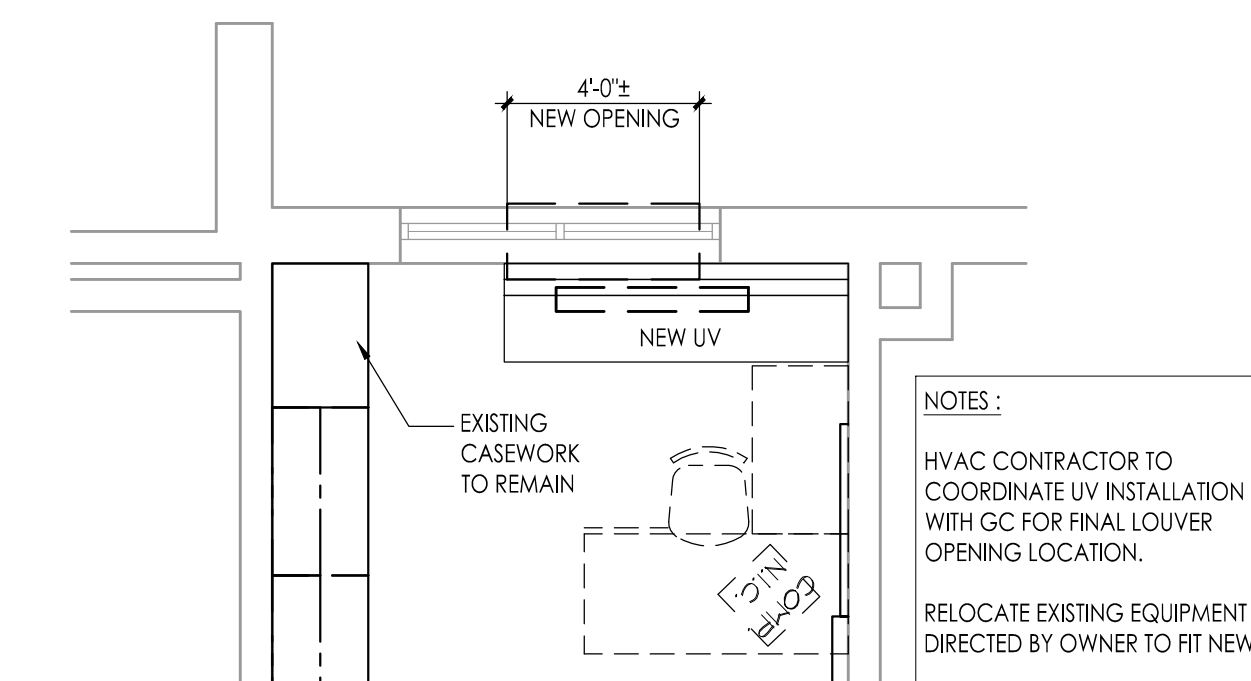
NOTES:
GC IS TO COORDINATE ANY EQUIPMENT REMOVAL AND RELOCATION WITH OWNER

2 UV / CASEWORK - NEW WORK PLAN (TYPICAL)
SCALE: 1/4" = 1'-0"



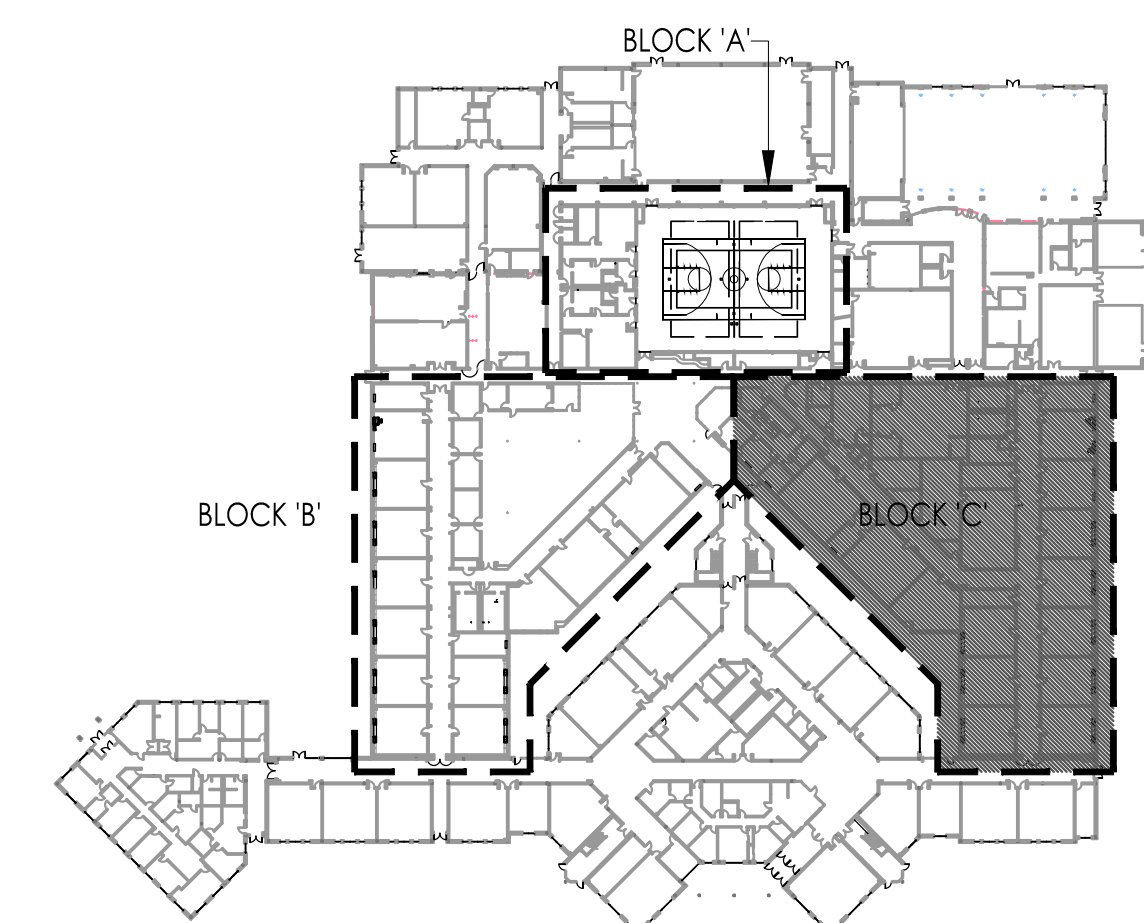
D103	C114	SIM	B115	SIM	D101A	SIM	D106A	SIM
------	------	-----	------	-----	-------	-----	-------	-----

3 UV / CASEWORK - NEW WORK PLAN
SCALE: 1/4" = 1'-0"



C105

4 UV / CASEWORK - NEW WORK PLAN
SCALE: 1/4" = 1'-0"



Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330

Project Number: 4937C

Project Date: 02.15.2019

Checked By: JJV

Drawn By: AM

Scale: AS NOTED

Drawing Name: PARTIAL FIRST FLOOR HVAC NEW WORK PLAN

Block C

Revisions:

No.	Date	Description

Drawing Number: A110

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 1876 DENNIS FORMAN DR MAYS LANDING, NJ 08330

Project Number: 4937C

Project Date: 02.15.2019

Checked By: JJV

Drawn By: AM

Scale: AS NOTED

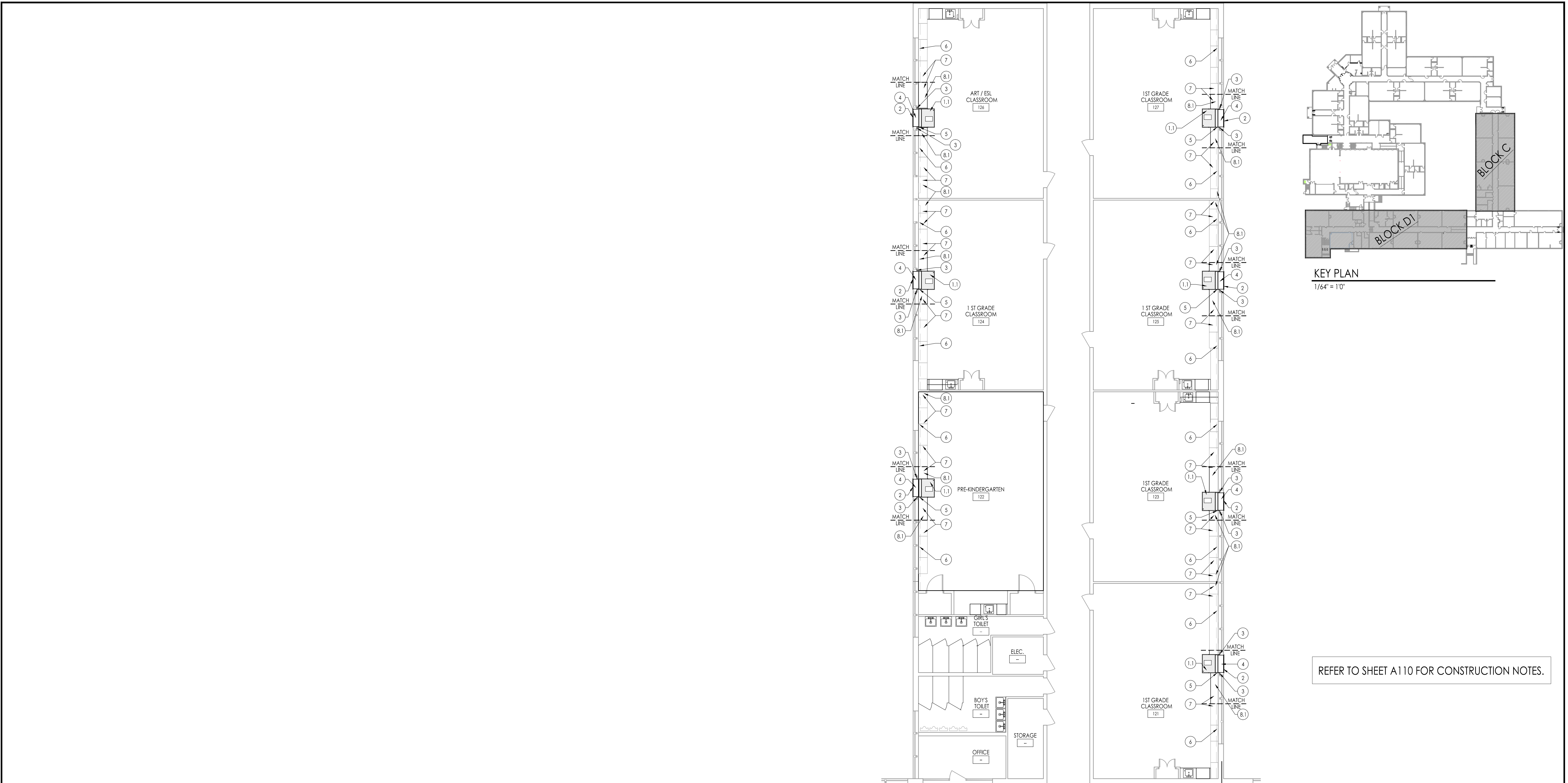
Drawing Name: PARTIAL FIRST FLOOR HVAC NEW WORK PLAN

Block C

Revisions:

No.	Date	Description

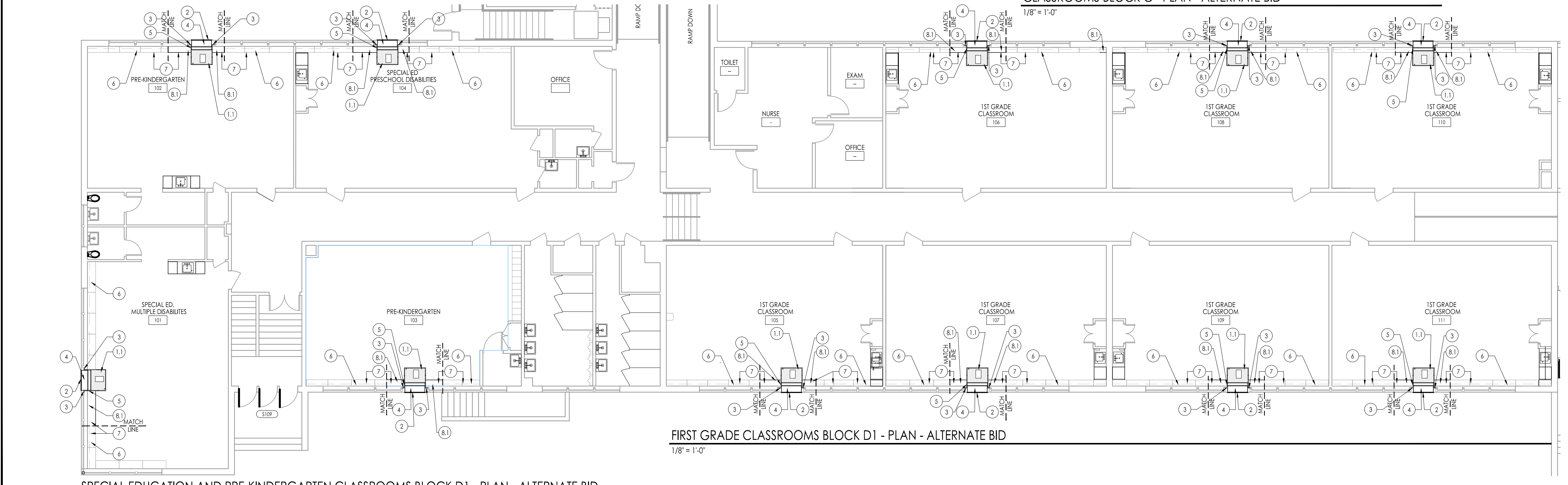
Drawing Number: A110



CLASSROOMS BLOCK C - PLAN - ALTERNATE BID

1/8" = 1'-0"

REFER TO SHEET A110 FOR CONSTRUCTION NOTES.

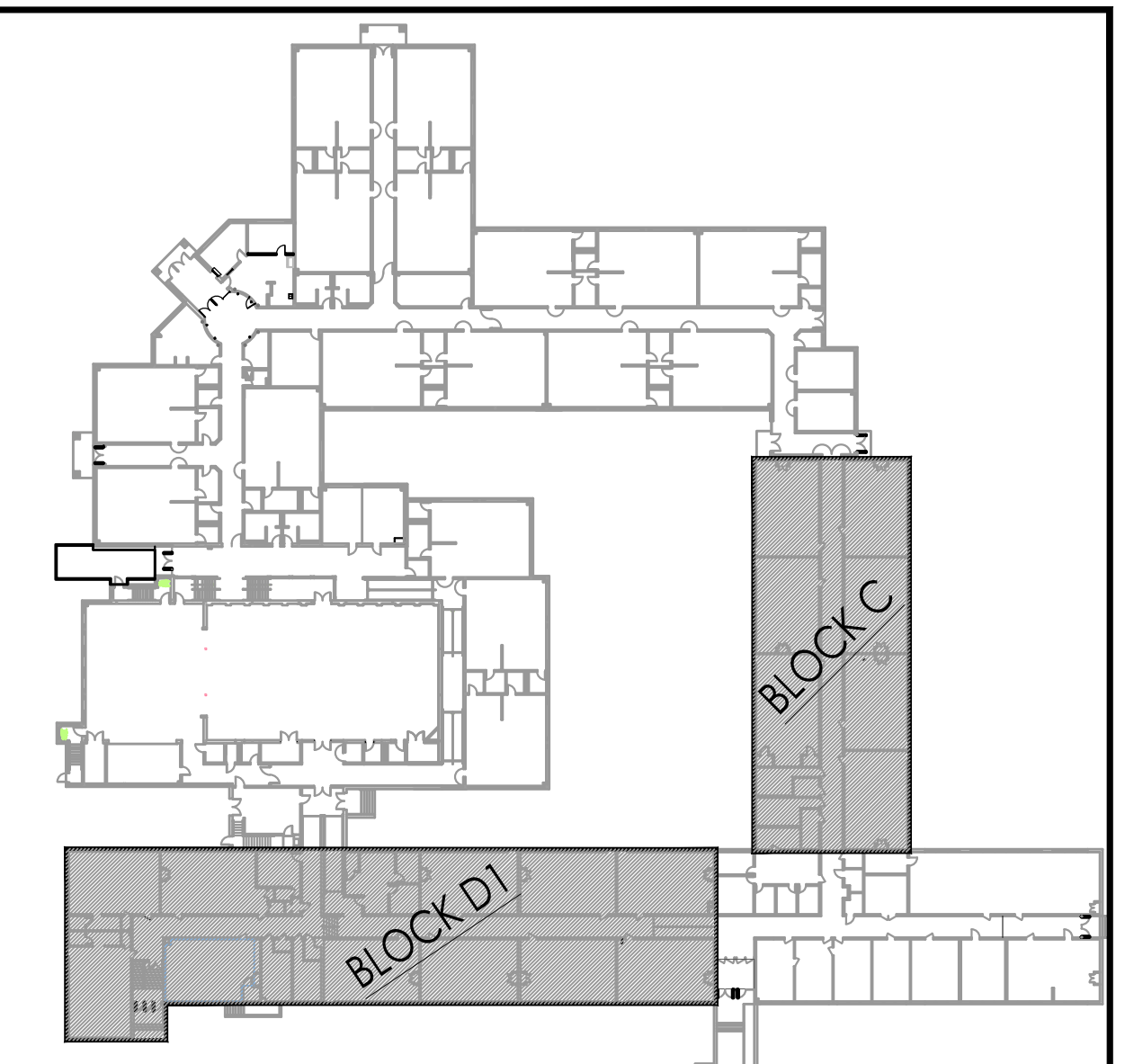


FIRST GRADE CLASSROOMS BLOCK D1 - PLAN - ALTERNATE BID

1/8" = 1'-0"

SPECIAL EDUCATION AND PRE-KINDERGARTEN CLASSROOMS BLOCK D1 - PLAN - ALTERNATE BID

1/8" = 1'-0"



KEY PLAN
1/64" = 1'-0"

JOHN J. VEISZ, AIA, CSBA
 NU-2148660001 PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NU-2148660001 PA-84202004
 GEORGE R. DUTHIE, JR., AIA, PP
 NU-2148660001 PA-84202005

FVH D architects
 planners
 Fraytak Veisz Hopkins Duthie PC
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whittaker Ave - Mont Clare - Pennsylvania 17433

Date: _____
 Approved: _____

F V H D P C . C O M

Project Name
**ALTERATIONS AND
 RENOVATIONS TO
 JOSEPH C. SHANER
 MEMORIAL
 ELEMENTARY SCHOOL**

Project Owner Name
**HAMILTON
 TOWNSHIP BOARD
 OF EDUCATION**

Project Location
**5801 3rd ST
 MAYS LANDING,
 NJ 08330**

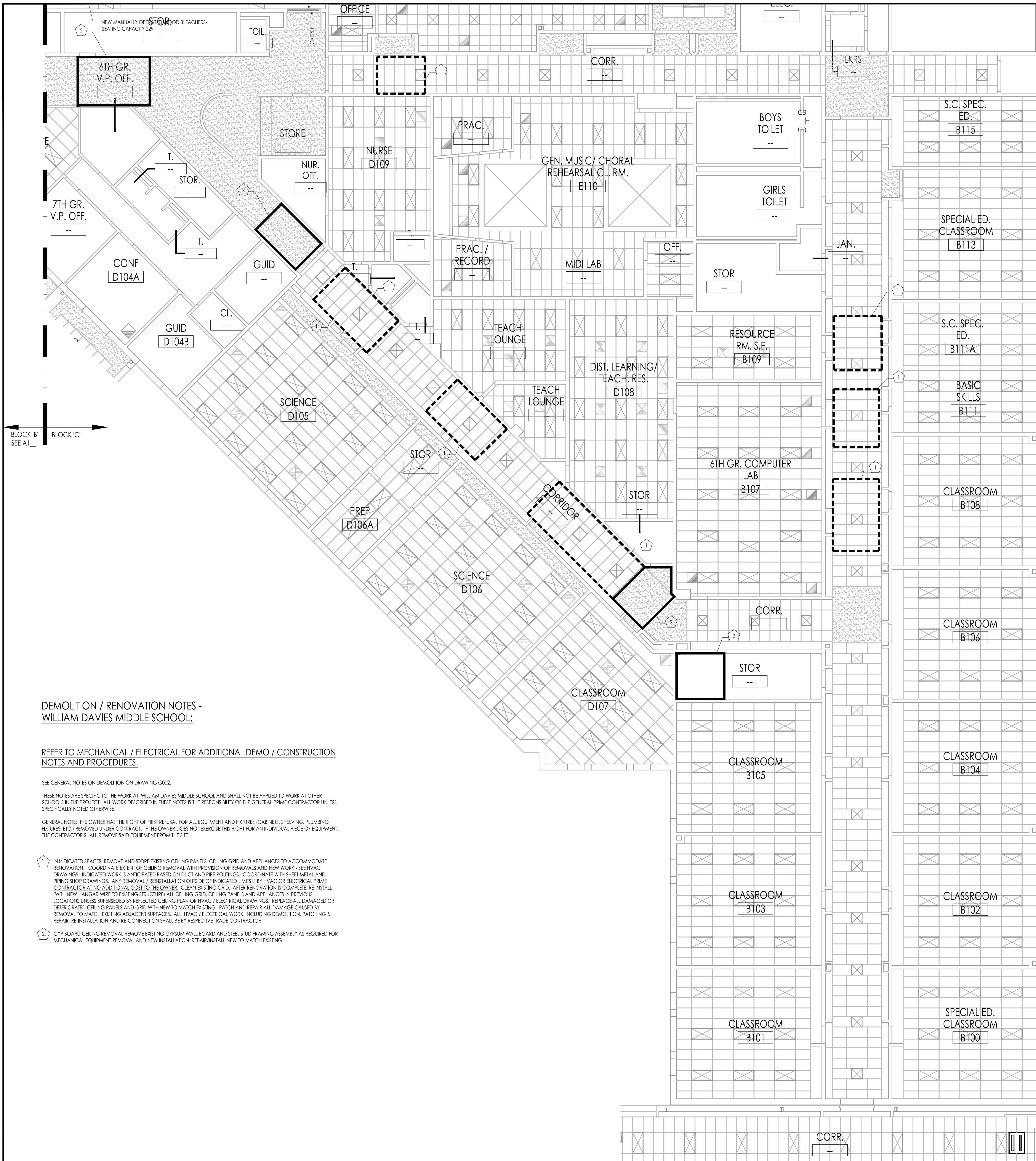
Project Number
4937B
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
HJ
 Scale
AS NOTED

Drawing Name
**FLOOR PLAN
 LAYOUT & NOTES
 ALTERNATE BID**

**BLOCK C
 BLOCK D1**

No.	Date	Description

Drawing Number
A110a



DEMOLITION / RENOVATION NOTES - WILLIAM DAVIES MIDDLE SCHOOL:

REFER TO MECHANICAL / ELECTRICAL FOR ADDITIONAL DEMO / CONSTRUCTION NOTES AND PROCEDURES.

SEE GENERAL NOTES ON DEMOLITION ON DRAWING G002.

THESE NOTES ARE SPECIFIC TO THE WORK AT WILLIAM DAVIES MIDDLE SCHOOL AND SHALL NOT BE APPLIED TO WORK AT OTHER SCHOOLS IN THE PROJECT. ALL WORK DESCRIBED IN THESE NOTES IS THE RESPONSIBILITY OF THE GENERAL PRIME CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

GENERAL NOTE: THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL EQUIPMENT AND FIXTURES (CABINETS, SHELVING, PLUMBING FIXTURES, ETC.) REMOVED UNDER CONTRACT. IF THE OWNER DOES NOT EXERCISE THIS RIGHT FOR AN INDIVIDUAL PIECE OF EQUIPMENT, THE CONTRACTOR SHALL REMOVE SAID EQUIPMENT FROM THE SITE.

1. IN INDICATED SPACES, REMOVE AND STORE EXISTING CEILING PANELS, CEILING GRID AND APPLIANCES TO ACCOMMODATE RENOVATION. COORDINATE EXTENT OF CEILING REMOVAL WITH PROVISION OF REMOVALS AND NEW WORK - SEE HVAC DRAWINGS. INDICATED WORK IS ANTICIPATED BASED ON DUCT AND PIPE ROUTINGS. COORDINATE WITH SHEET METAL AND PIPING SHOP DRAWINGS. ANY REMOVAL / REINSTALLATION OUTSIDE OF INDICATED LIMITS IS BY HVAC OR ELECTRICAL PRIME CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CLEAN EXISTING GRID. AFTER RENOVATION IS COMPLETE, REINSTALL (WITH NEW HANGAR WIRE TO EXISTING STRUCTURE) ALL CEILING GRID, CEILING PANELS AND APPLIANCES IN PREVIOUS LOCATIONS UNLESS SUPERSEDED BY REFLECTED CEILING PLAN OR HVAC / ELECTRICAL DRAWINGS. REPLACE ALL DAMAGED OR DEGRADED CEILING PANELS AND GRID WITH NEW TO MATCH EXISTING. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT SURFACES. ALL HVAC / ELECTRICAL WORK, INCLUDING DEMOLITION, PATCHING & REPAIR, RE-INSTALLATION AND RE-CONNECTION SHALL BE BY RESPECTIVE TRADE CONTRACTOR.

2. GYP BOARD CEILING REMOVAL REMOVE EXISTING GYPSUM WALL BOARD AND STEEL STUD FRAMING ASSEMBLY AS REQUIRED FOR MECHANICAL EQUIPMENT REMOVAL AND NEW INSTALLATION. REPAIR/INSTALL NEW TO MATCH EXISTING.

REFLECTED CEILING PLAN WORK LEGEND

- REMOVE / REPLACE
- REMOVE / REINSTALL

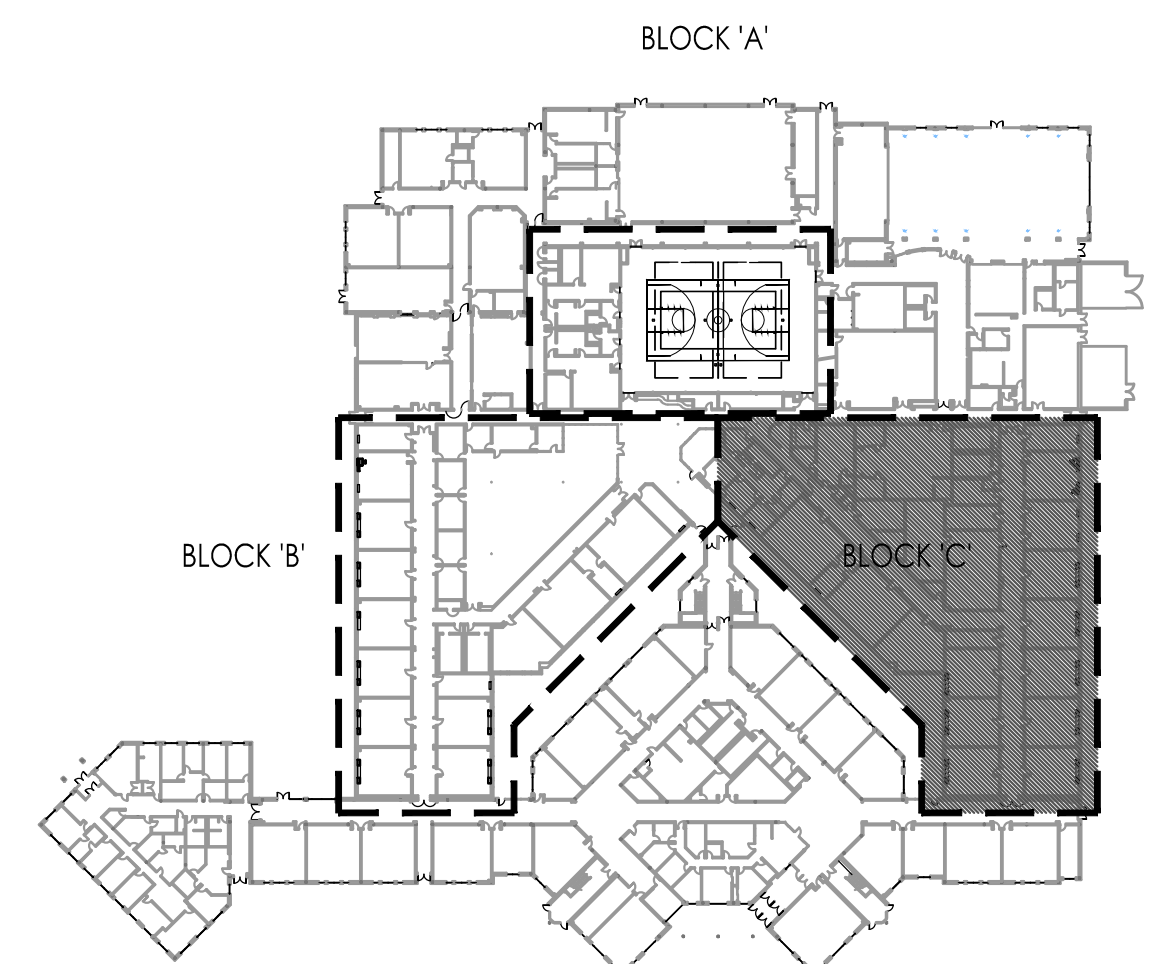
DEMOLITION / RENOVATION NOTES - SEE A1xx

FOR GENERAL DEMOLITION NOTES SEE DRAWING G002.

REFLECTED CEILING PLAN LEGEND

- EXISTING ACS #1 - 2' X 2' ACOUSTICAL CEILING SOUND BOARD - SEE FINISH SCHEDULE FOR LOCATION & TYPE
- EXISTING ACS #2 - 2' X 4' ACRYLIC ACOUSTICAL CEILING BOARD - SEE FINISH SCHEDULE FOR LOCATION
- EXISTING GYPSUM BOARD SOFFIT
- EPS
- EXHAUST FAN (SEE MECHANICAL DRAWINGS)
- RETURN DIFFUSER (SEE MECHANICAL DRAWINGS)
- SUPPLY DIFFUSER (SEE MECHANICAL DRAWINGS)
- LINEAR DIFFUSER (SEE MECHANICAL DRAWINGS)
- LIGHTS (SEE ELECTRICAL DRAWINGS)
- EXISTING CAMERA TO REMAIN
- EXISTING DETECTOR TO REMAIN
- EXISTING MOTION SENSOR TO REMAIN
- EXISTING SPEAKER TO REMAIN
- EXISTING STROBE LIGHT TO REMAIN
- EXISTING CEILING MOUNTED WIRE HUB TO REMAIN
- EXISTING CEILING MOUNTED EXIT SIGN TO REMAIN
- SPRINKLER HEAD (SEE FIRE PROTECTION DRAWINGS)

FIRST FLOOR PLAN - BLOCK C
Scale: 1/8" = 1'-0"



JOHN J. VEISZ, AIA, CSBA
NU-PA0000001 PA-BA000198
WILLIAM D. HOPKINS III, AIA, LEED AP
NU-PA0000001 PA-BA000204
GEORGE R. DUTHIE, JR., AIA, PP
NU-PA0000001 PA-BA000200

FVHD architects
planners
Fraytak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17433

F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**1876 DENNIS FORMAN DR
MAYS LANDING,
NJ 08330**

Project Number
4937C

Project Date
02.15.2019

Checked By
JJV

Drawn By
KM

Scale
AS NOTED

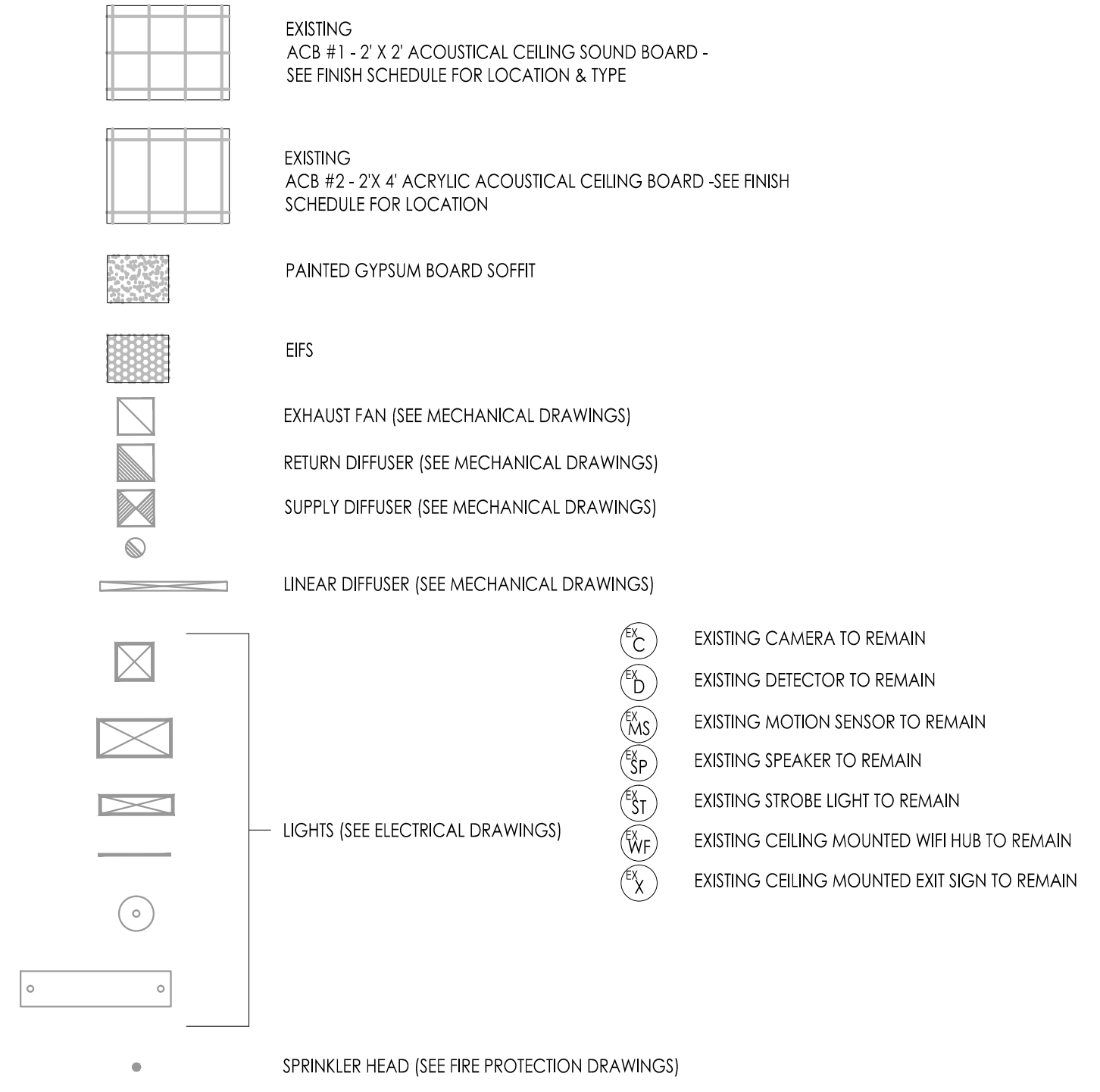
Drawing Name
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN

BLOCK C

Revisions		
No.	Date	Description

Drawing Number
A111

REFLECTED CEILING PLAN LEGEND



NOTES:

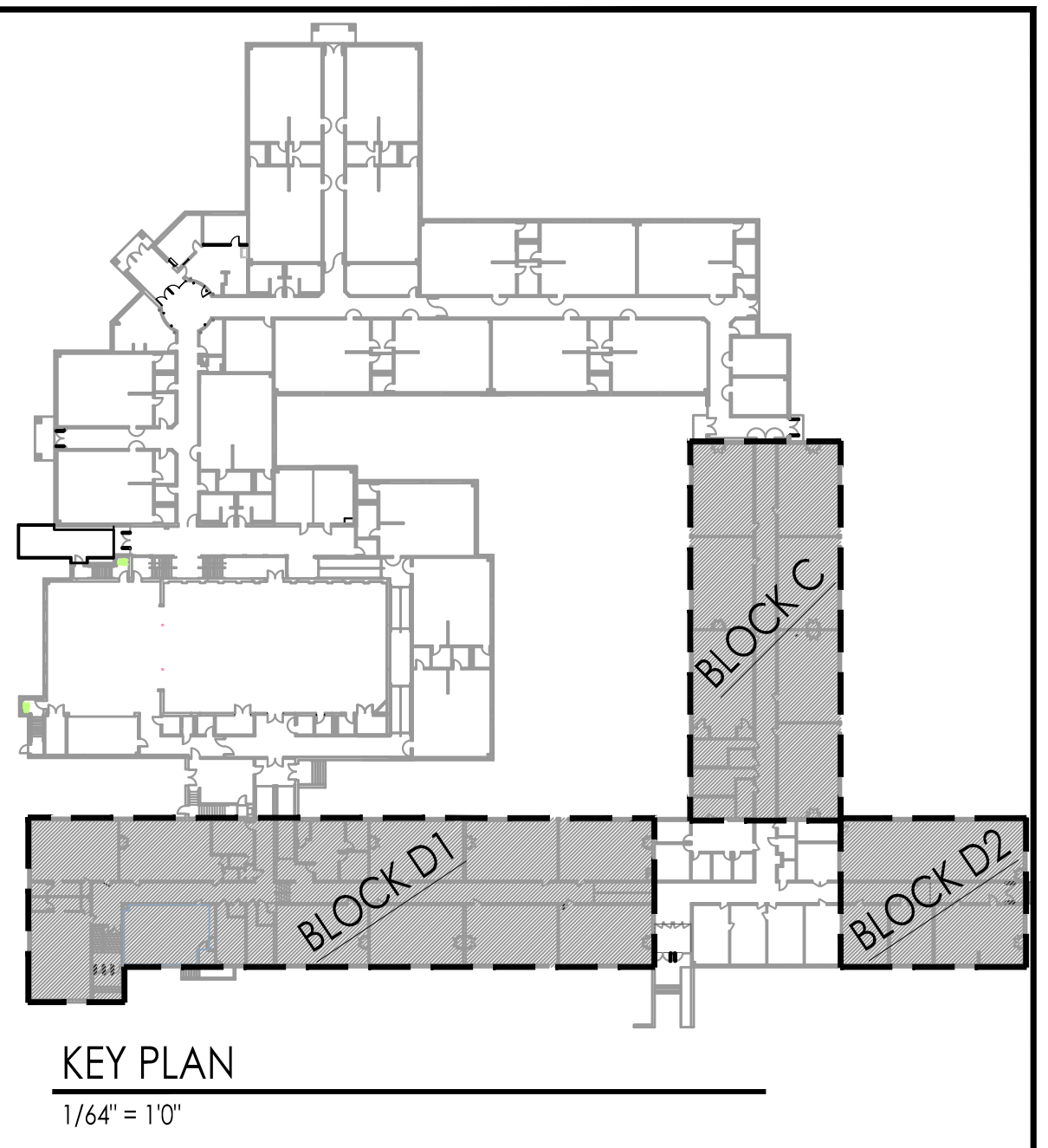
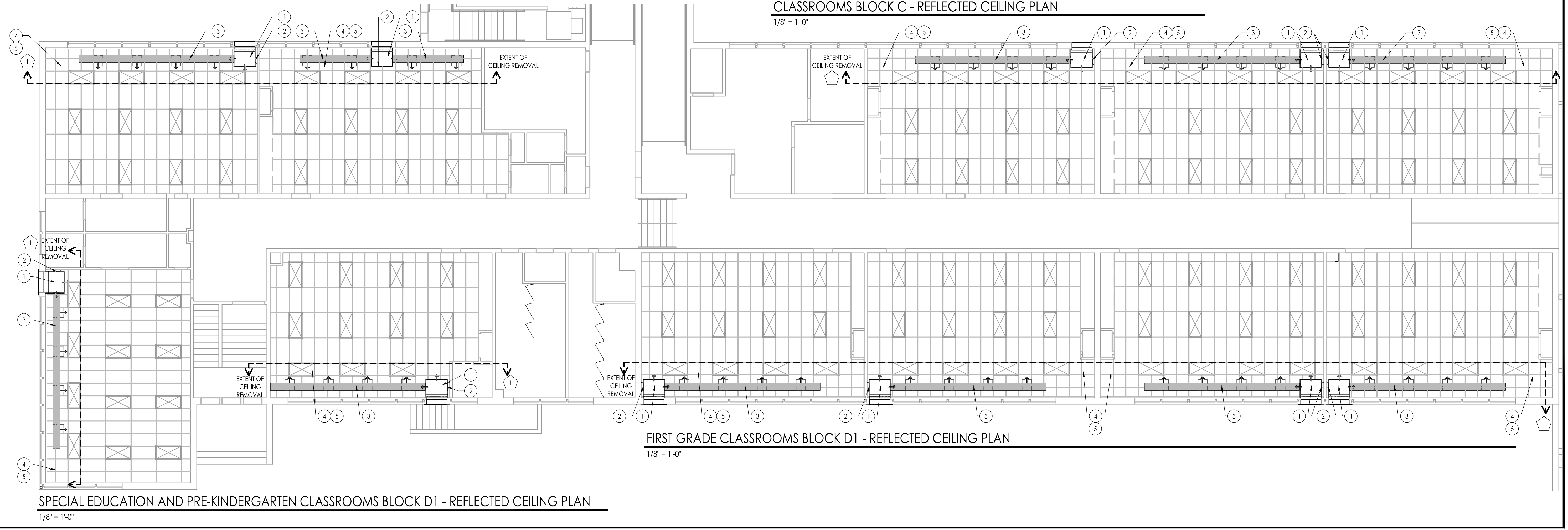
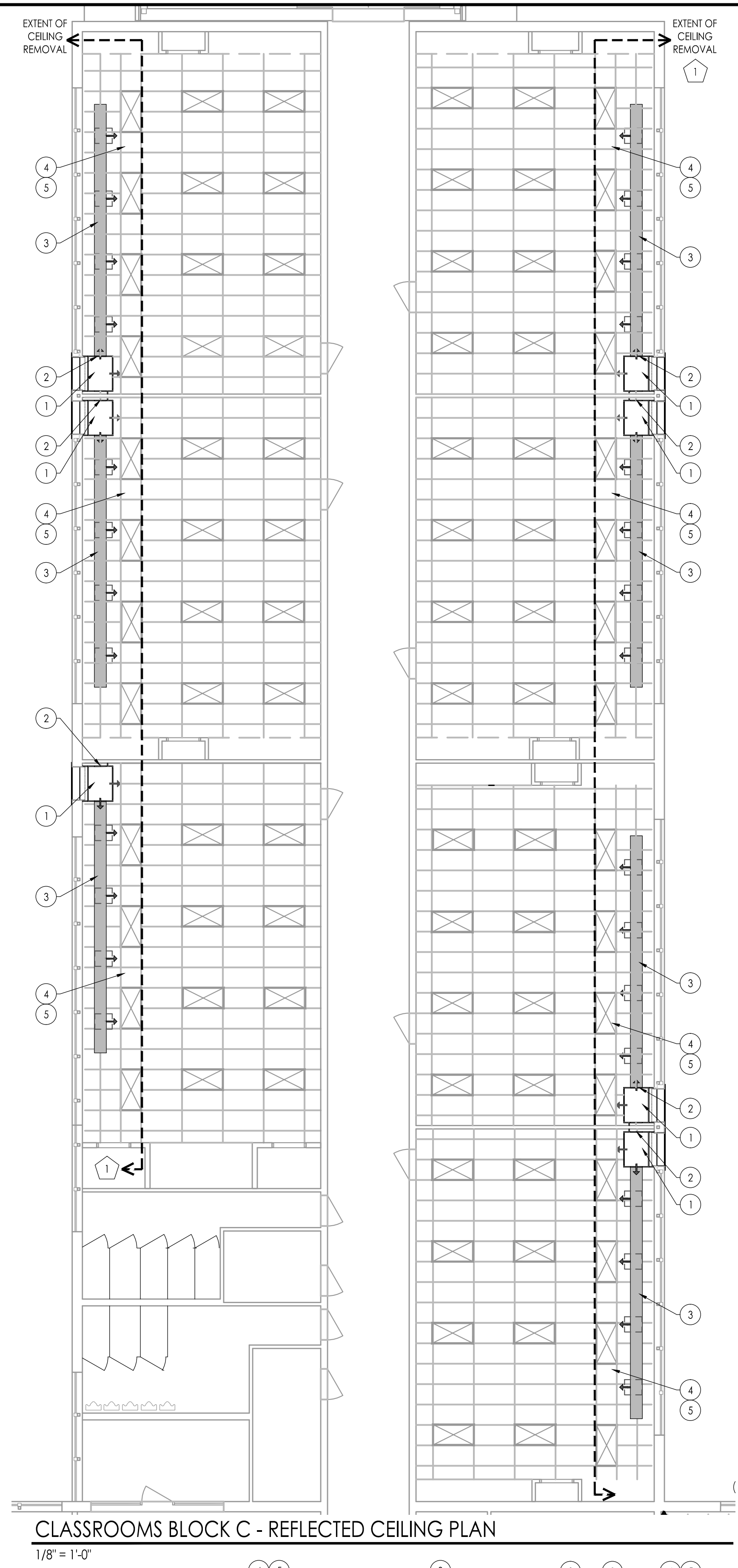
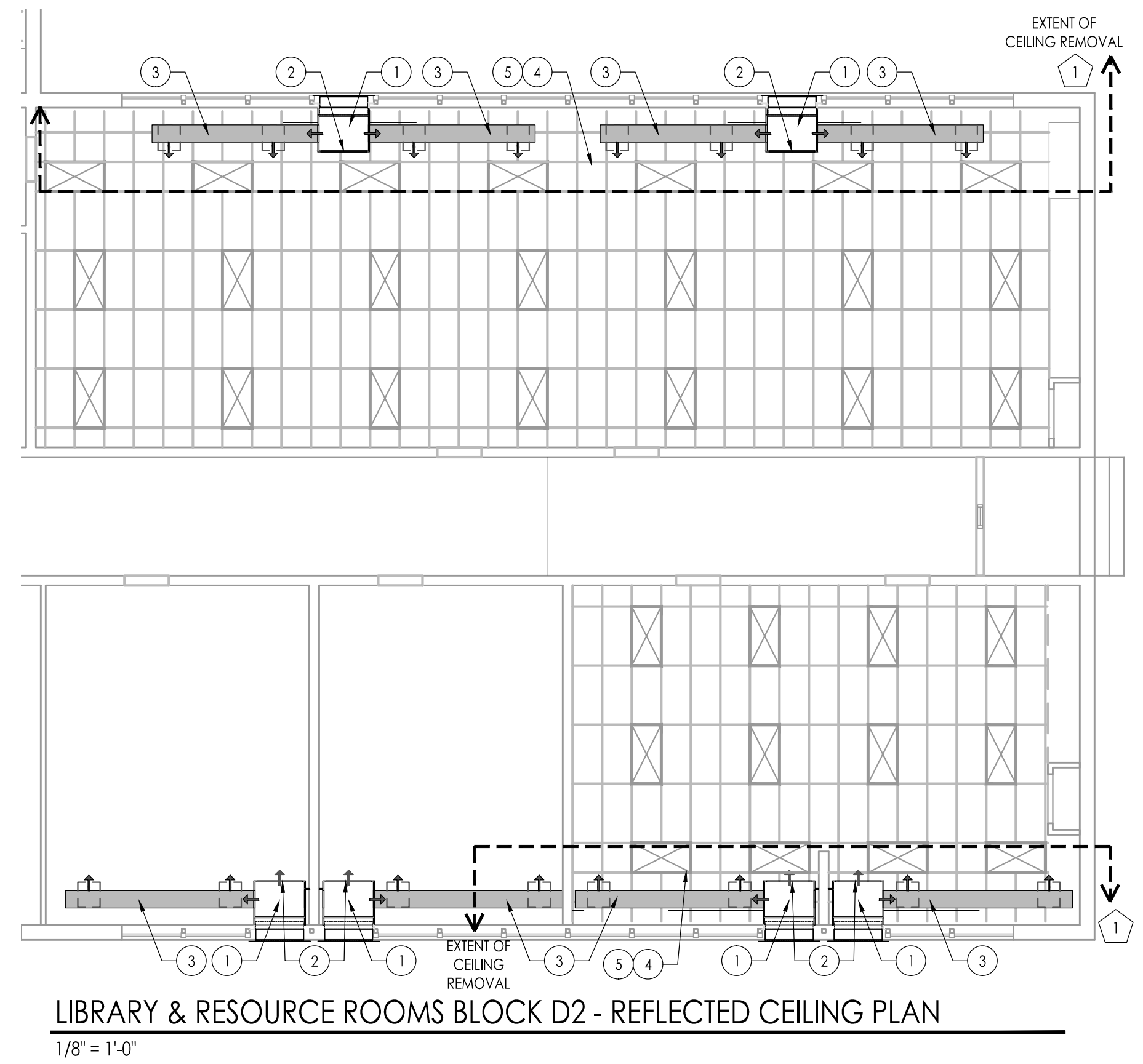
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR TYPE, SIZE AND ADDITIONAL INFORMATION.
- ALL SPRINKLER HEADS, DIFFUSERS AND LIGHTS TO BE CENTERED IN THE ACB CEILING UNLESS NOTED OTHERWISE.
- GENERAL MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE LOCATION OF ALL APERTURES AND LIGHTS.
- ALL CEILING HEIGHTS TO BE V.I.F.

REFLECTED CEILING PLAN NEW WORK NOTES - JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL:

- NEW UNIT VENTILATOR PLENUM - SEE HVAC DWGS.
- BLANK-OFF PANEL AS REQ'D. SEE HVAC DWGS.
- NEW EXPOSED DUCT WORK - SEE HVAC DRAWINGS. PAINT BY HVAC PRIME. COLOR BY ARCHITECT.
- MODIFY EXISTING GRID TO ACCOMMODATE NEW ORIENTATION OF EXISTING 24" LAY IN LIGHTS.
- MODIFY EXISTING GRID TO ACCOMMODATE NEW AIREDALE.

REFLECTED CEILING PLAN DEMOLITION NOTES

IN INDICATED SPACES, REMOVE AND STORE EXISTING CEILING PANELS, CEILING GRID AND APPLIANCES TO ACCOMMODATE RENOVATION. COORDINATE EXTENT OF CEILING REMOVAL WITH PROVISION OF NEW WORK - SEE HVAC DRAWINGS. INDICATED WORK IS ANTICIPATED BASED ON DUCT AND PIPE ROUTINGS. COORDINATE WITH SHEET METAL AND PIPING SHOP DRAWINGS. ANY REMOVAL / REINSTALLATION OUTSIDE OF INDICATED LIMITS IS BY HVAC OR ELECTRICAL PRIME CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CLEAN EXISTING GRID. AFTER RENOVATION IS COMPLETE, REINSTALL (WITH NEW HANGAR WIRE TO EXISTING STRUCTURE) ALL CEILING GRID, CEILING PANELS AND APPLIANCES IN PREVIOUS LOCATIONS UNLESS SUPERCEDED BY REFLECTED CEILING PLAN OR HVAC / ELECTRICAL DRAWINGS. REPLACE ALL DAMAGED OR DETERIORATED CEILING PANELS AND GRID WITH NEW TO MATCH EXISTING. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT SURFACES. ALL HVAC / ELECTRICAL WORK INCLUDING DEMOLITION, PATCHING & REPAIR, REINSTALLATION AND RECONNECTION SHALL BE BY RESPECTIVE TRADE CONTRACTOR.



JOHN J. VEISZ, AIA, CSBA
 NJ-21486600 / PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-34404200 / PA-84202204
 GEORGE R. DUTHIE JR., AIA, PP
 NJ-21482700 / PA-84202200
 Date: _____
 F.V.H.D. P.C. - C.O.M.
FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P.C.
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17053

Project Name:
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
 Project Owner Name:
 HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location:
 5801 3rd ST
 MAYS LANDING,
 NJ 08330

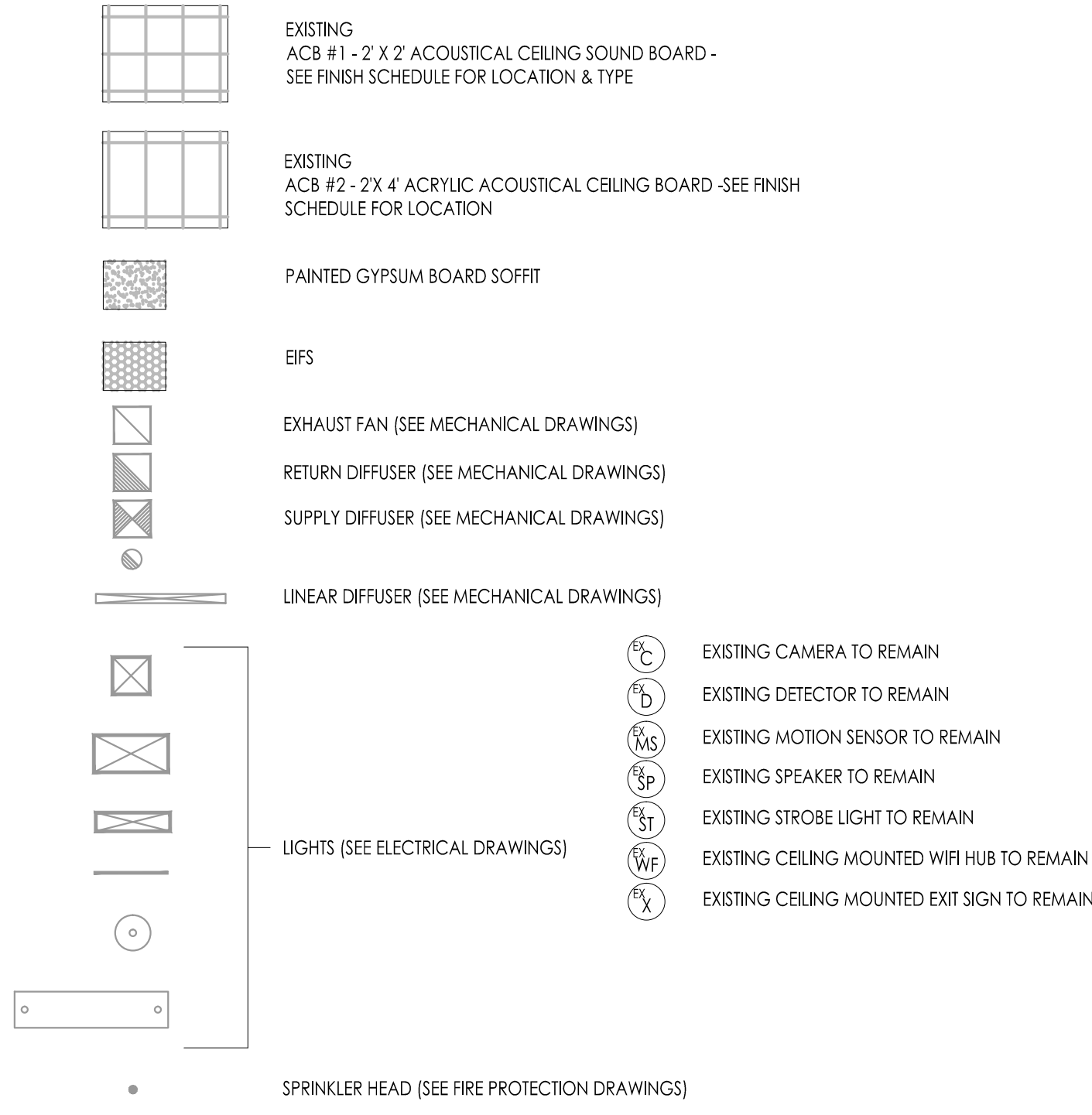
Project Number:
 4937B
 Project Date:
 02.15.2019
 Checked By:
 JJV
 Drawn By:
 HJ
 Scale:
 AS NOTED

Drawing Name:
REFLECTED CEILING PLAN BASE BID
 BLOCK C
 BLOCK D1
 BLOCK D2

No.	Date	Description

Drawing Number:
A111

REFLECTED CEILING PLAN LEGEND



NOTES:

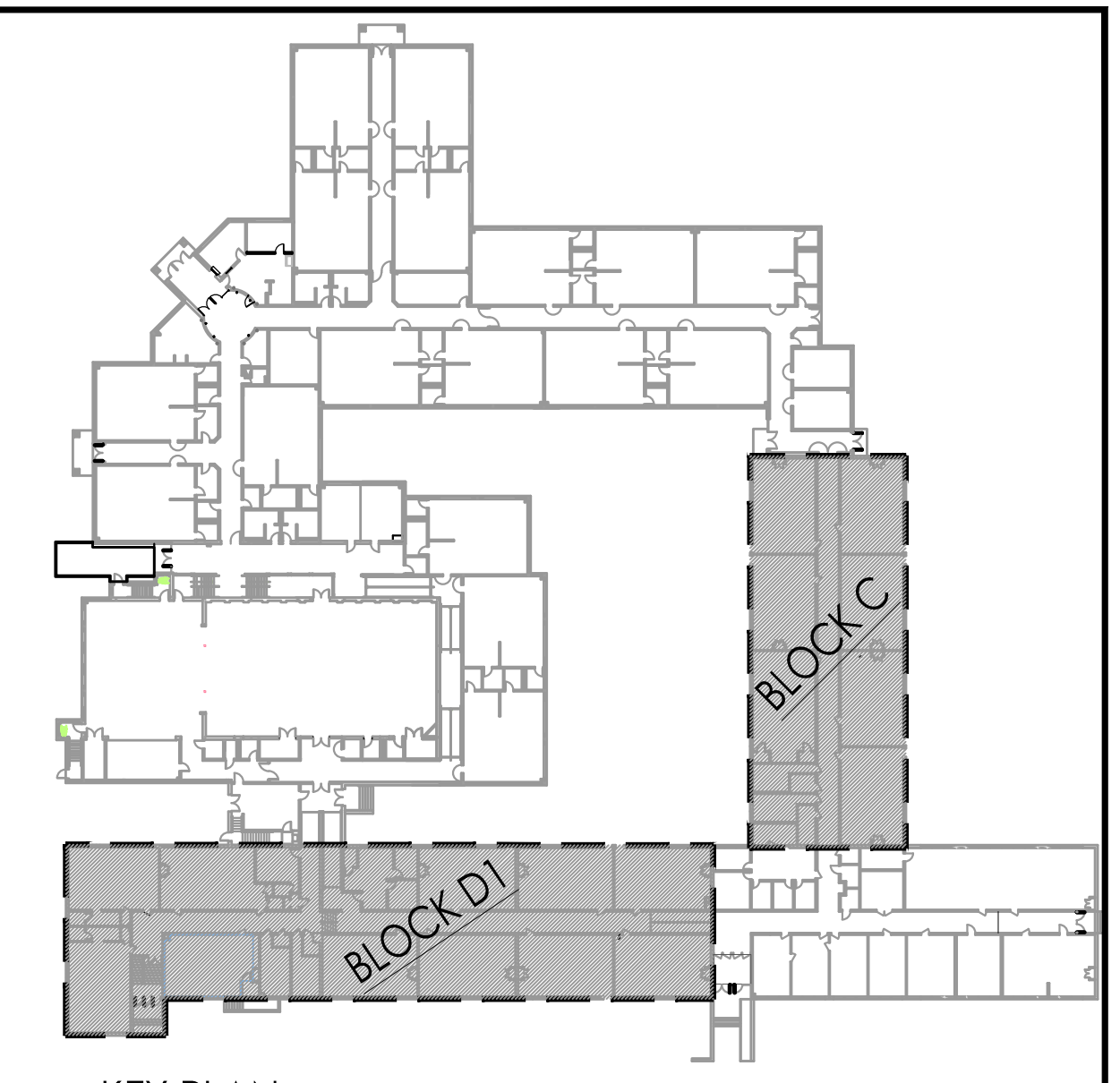
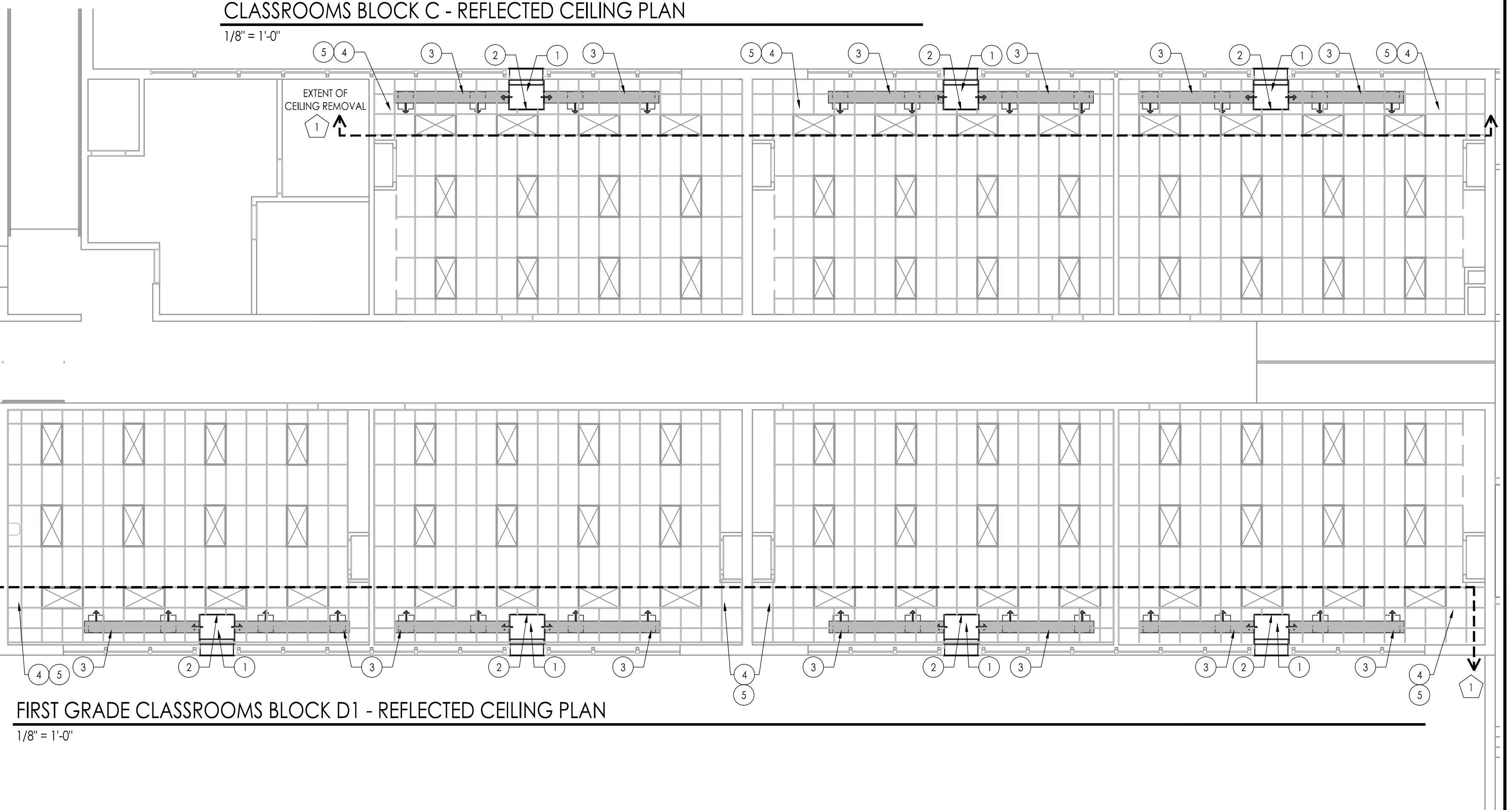
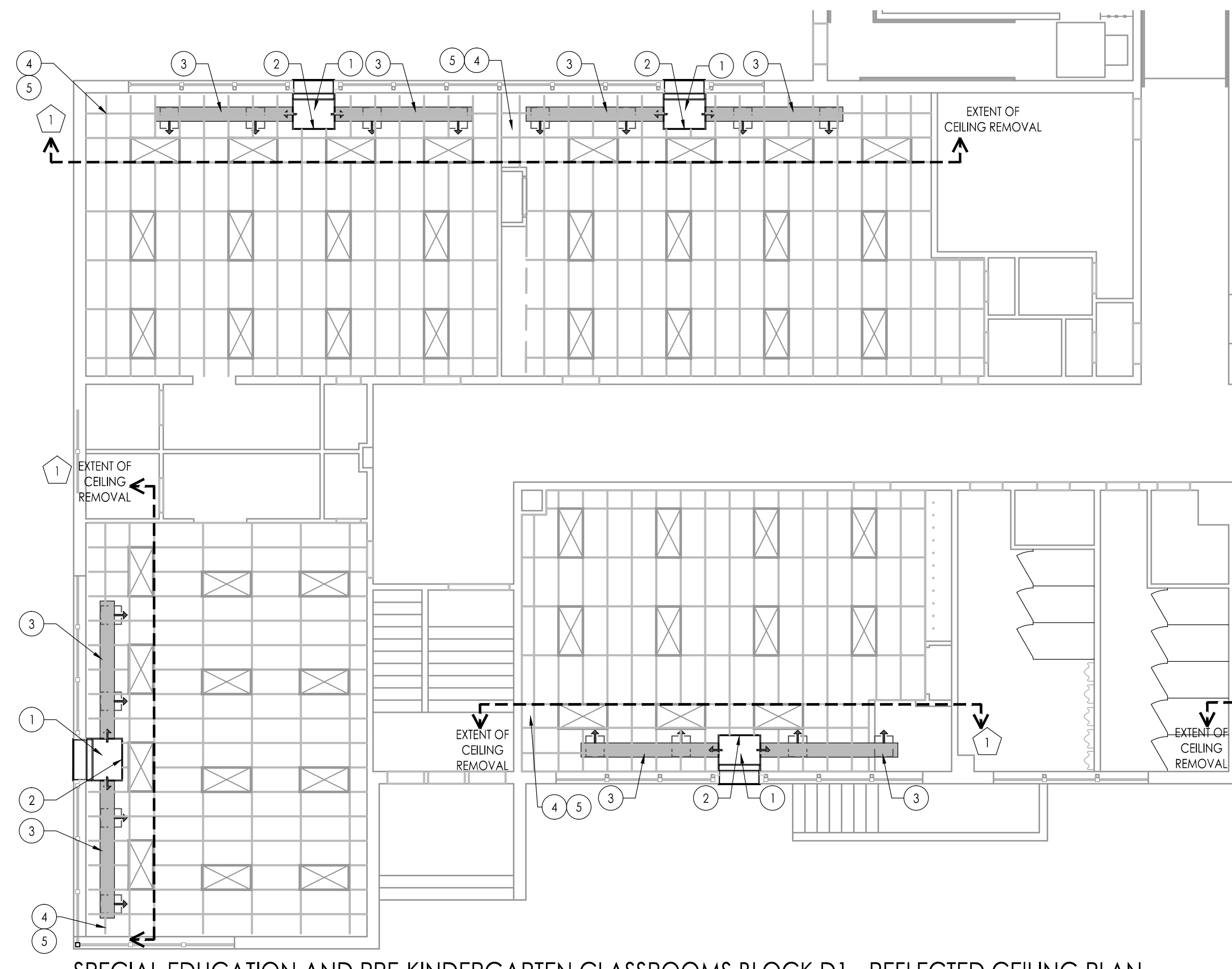
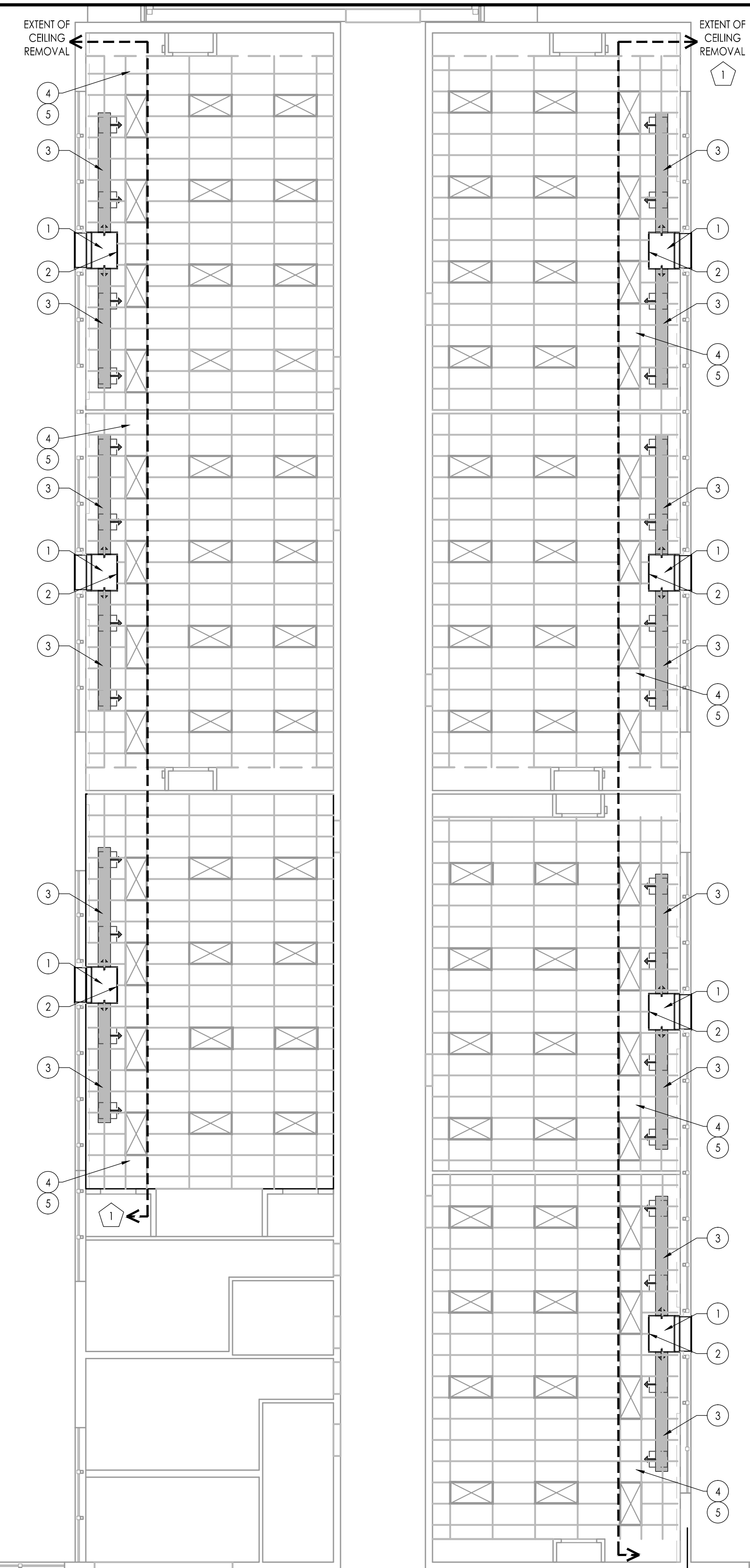
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR TYPE, SIZE AND ADDITIONAL INFORMATION.
- ALL SPRINKLER HEADS, DIFFUSERS AND LIGHTS TO BE CENTERED IN THE ACB CEILING UNLESS NOTED OTHERWISE.
- GENERAL MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE LOCATION OF ALL APERTURES AND LIGHTS.
- ALL CEILING HEIGHTS TO BE V.I.F.

REFLECTED CEILING PLAN NEW WORK NOTES - JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL:

- NEW UNIT VENTILATOR PLENUM - SEE HVAC DWGS.
- BLANK-OFF PANEL AS REQ'D - SEE HVAC DWGS.
- NEW EXPOSED DUCT WORK - SEE HVAC DRAWINGS. PAINT BY HVAC PRIME. COLOR BY ARCHITECT.
- MODIFY EXISTING GRID TO ACCOMMODATE NEW ORIENTATION OF EXISTING 2x4 LAY IN LIGHTS.
- MODIFY EXISTING GRID TO ACCOMMODATE NEW AIRDALE.

REFLECTED CEILING PLAN DEMOLITION NOTES

IN INDICATED SPACES, REMOVE AND STORE EXISTING CEILING PANELS, CEILING GRID AND APPLIANCES TO ACCOMMODATE RENOVATION. COORDINATE EXTENT OF CEILING REMOVAL WITH PROVISION OF NEW WORK - SEE HVAC DRAWINGS. INDICATED WORK IS ANTICIPATED BASED ON DUCT AND PIPE ROUTINGS. COORDINATE WITH SHEET METAL AND PIPING SHOP DRAWINGS. ANY REMOVAL / REINSTALLATION OUTSIDE OF INDICATED LIMITS IS BY HVAC OR ELECTRICAL PRIME CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CLEAN EXISTING GRID. AFTER RENOVATION IS COMPLETE, REINSTALL (WITH NEW HANGAR WIRE TO EXISTING STRUCTURE) ALL CEILING GRID, CEILING PANELS AND APPLIANCES IN PREVIOUS LOCATIONS UNLESS SUPERCEDED BY REFLECTED CEILING PLAN OR HVAC / ELECTRICAL DRAWINGS. REPLACE ALL DAMAGED OR DETERIORATED CEILING PANELS AND GRID WITH NEW TO MATCH EXISTING. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL TO MATCH EXISTING ADJACENT SURFACES. ALL HVAC / ELECTRICAL WORK INCLUDING DEMOLITION, PATCHING & REPAIR, REINSTALLATION AND RECONNECTION SHALL BE BY RESPECTIVE TRADE CONTRACTOR.



JOHN J. VEISZ, AIA, CSRA
 NJ-214866001 PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-214866001 PA-84202004
 GEORGE R. DUTHIE, JR., AIA, PP
 NJ-214866001 PA-84202000
 Date: _____
 F.V.H.D. P.C. - C.O.M.
FVHD architects planners
 Fraytak Veisz Hopkins Duthie P.C.
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whittaker Ave - Mont Clare - Pennsylvania 17435

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**5801 3rd ST
MAYS LANDING,
NJ 08330**

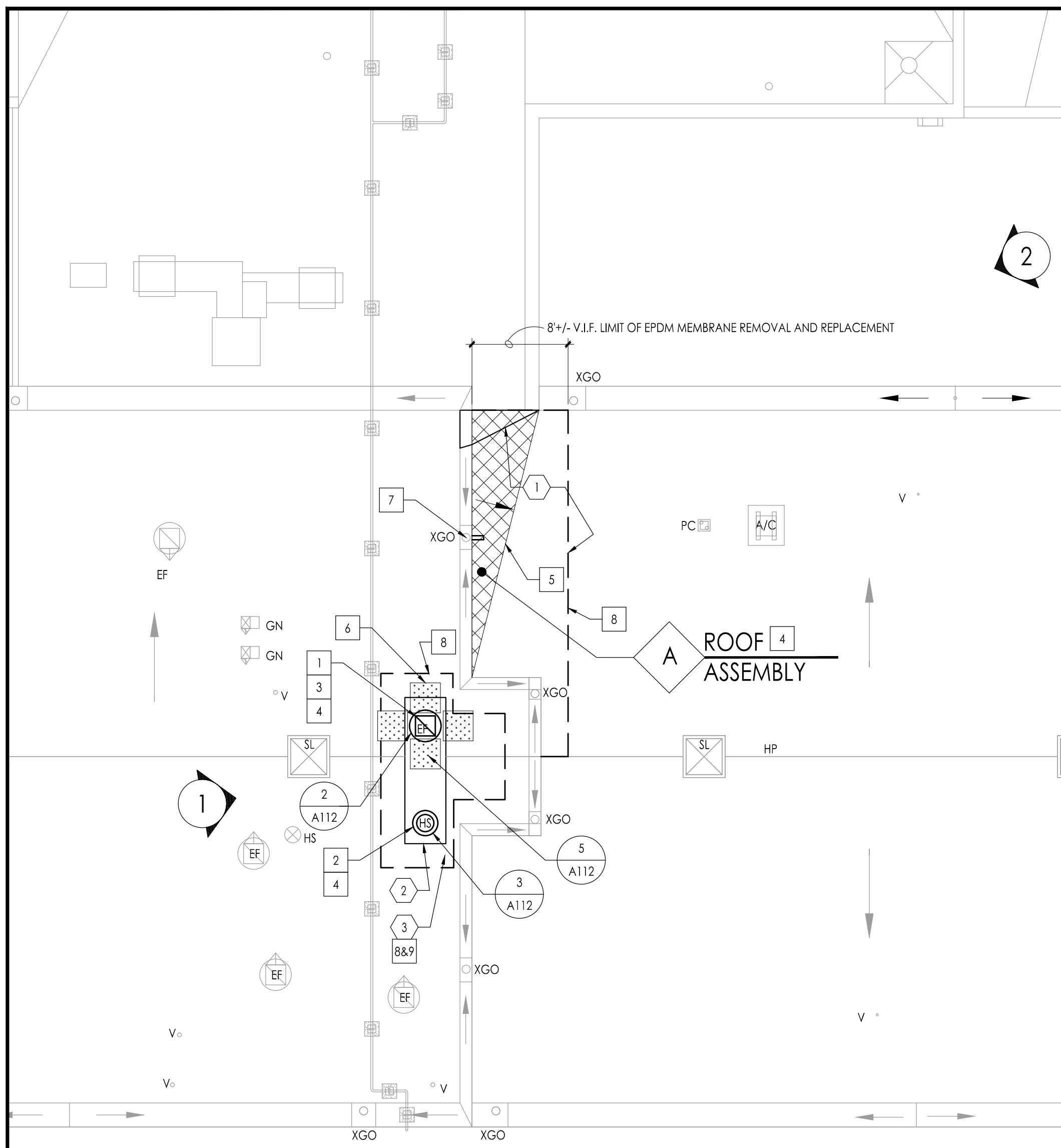
Project Number
4937B
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
HJ
 Scale
AS NOTED

Drawing Name
REFLECTED CEILING PLAN ALTERNATE BID

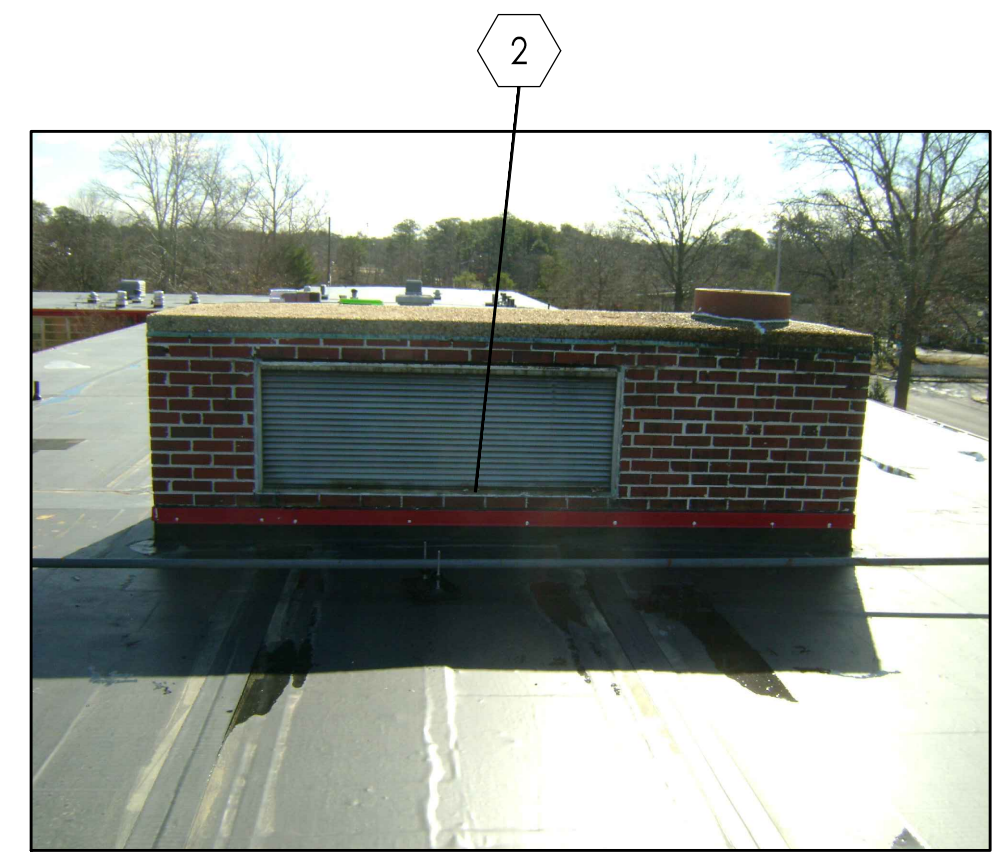
**BLOCK C
BLOCK D1**

No.	Date	Description

Drawing Number
A111a



PROPOSED ROOF PLAN
SCALE 1/8" = 1'

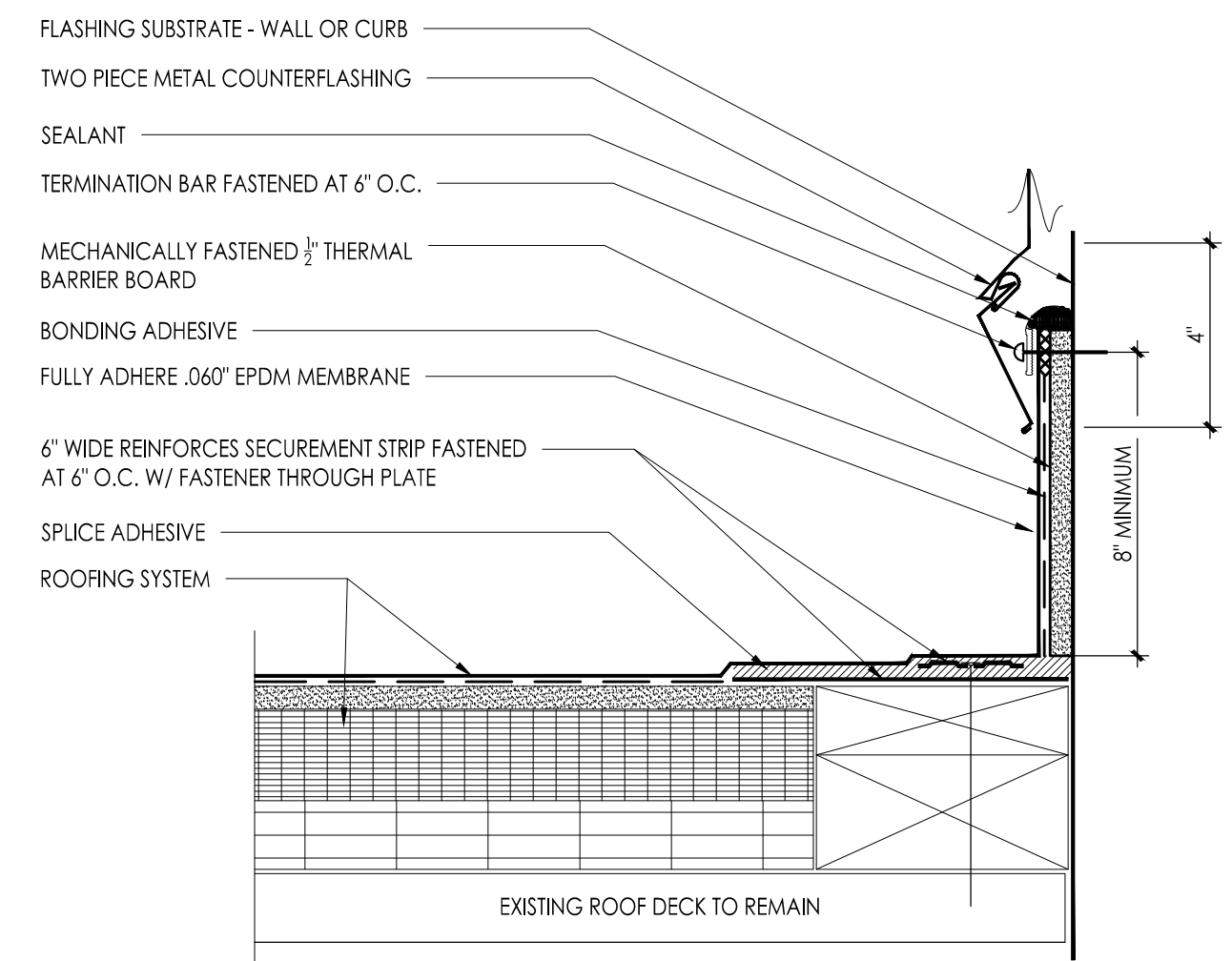


1 PHOTOGRAPH

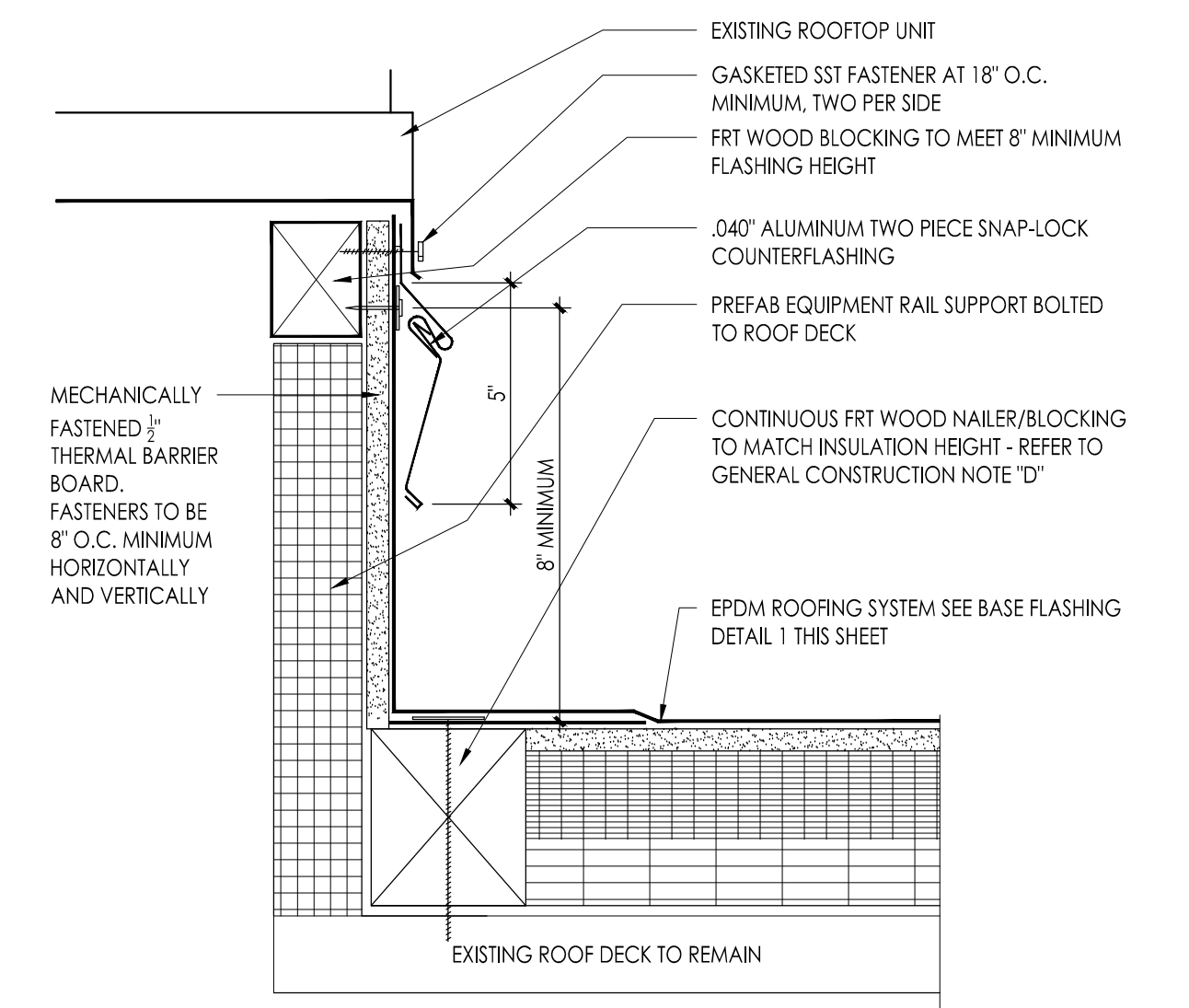


2 PHOTOGRAPH

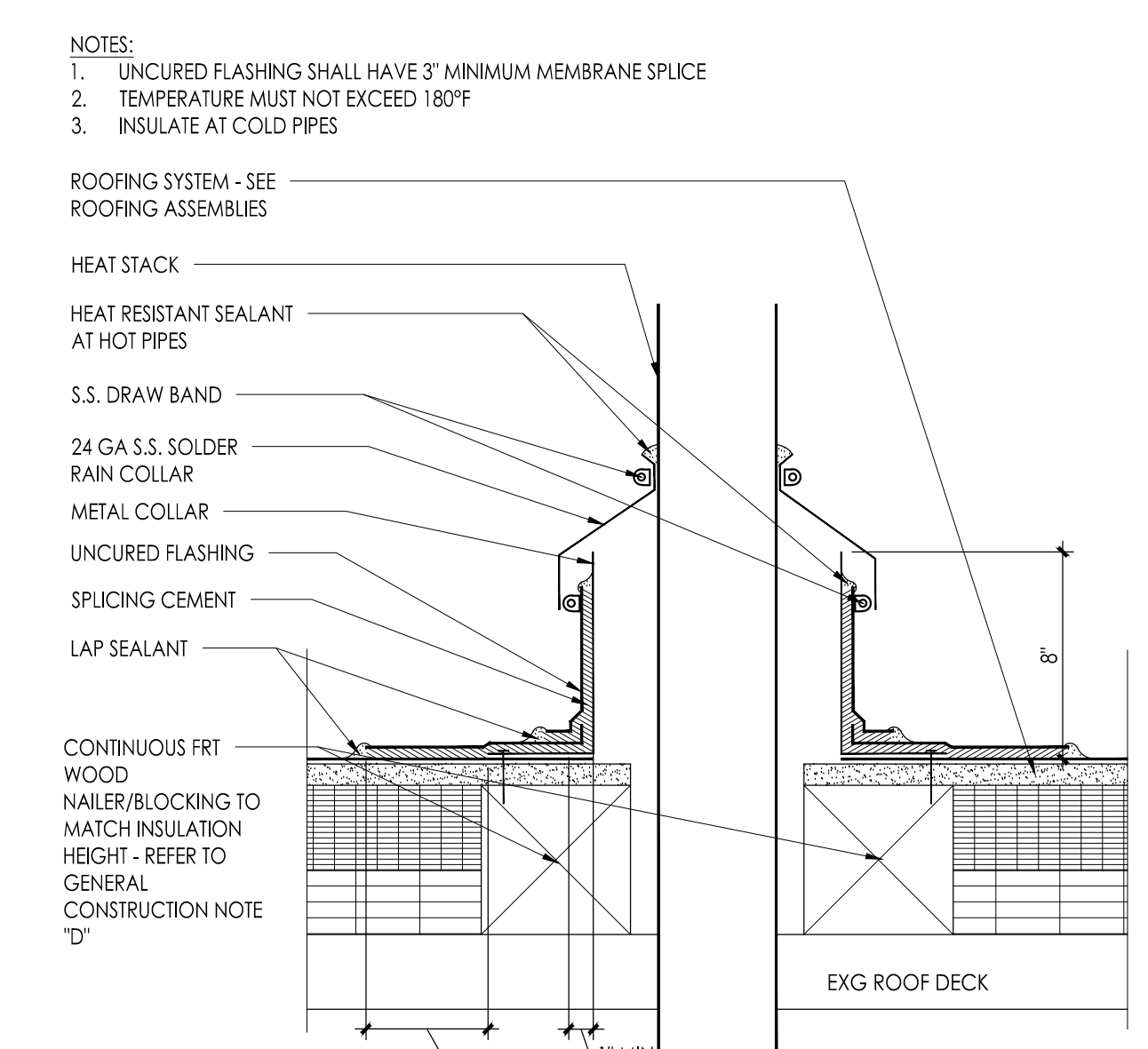
- LEGEND**
- XGO EXG CUTTER OUTLET AND RAIN WATER LEADER
 - EF EXHAUST FAN UNIT
 - PC PIPE CURB
 - GN GOOSE NECK
 - V VENT PIPE
 - WALKWAY PADS
 - PP SB PITCH POCKET
 - SK SKYLIGHT
- SYMBOLS**
- X A-X FLASHING DETAIL AND DRAWING NUMBER
 - # PHOTOGRAPH NUMBER
 - # DEMOLITION/ CONSTRUCTION NOTE
 - # CONSTRUCTION NOTE
 - SL DIRECTION OF ROOF SLOPE
 - # ROOF ASSEMBLY TYPE
 - 1/2" PER FOOT SLOPED TAPERED INSULATION CRICKETS



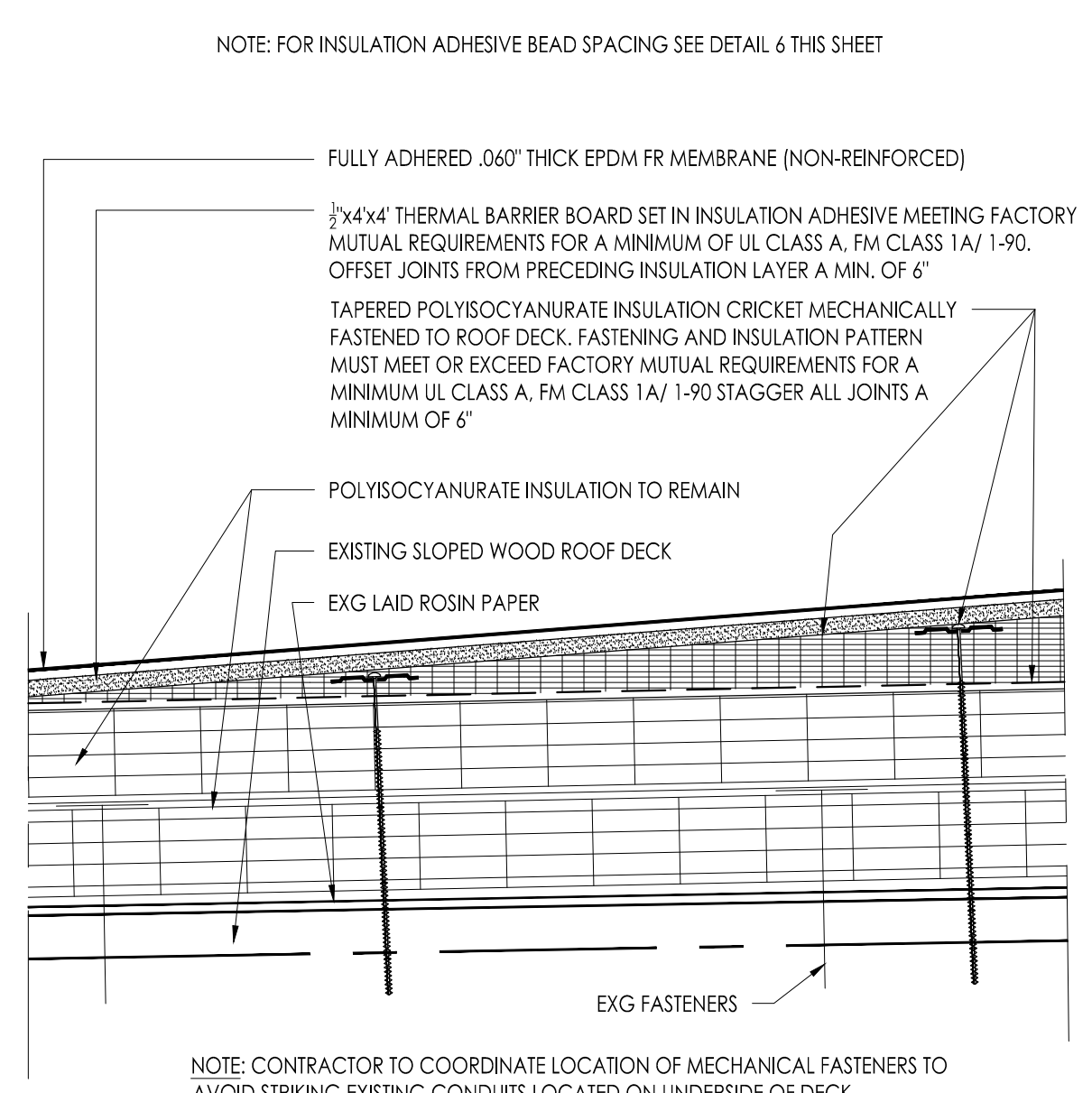
1 TYPICAL BASE FLASHING DETAIL
3" = 1'-0"



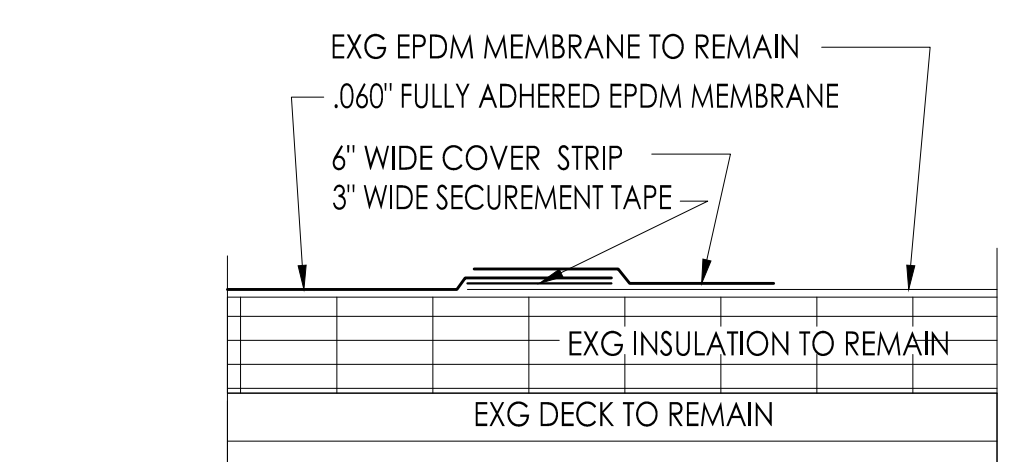
2 TYPICAL NEW ROOFTOP UNIT CURB FLASHING
3" = 1'-0"



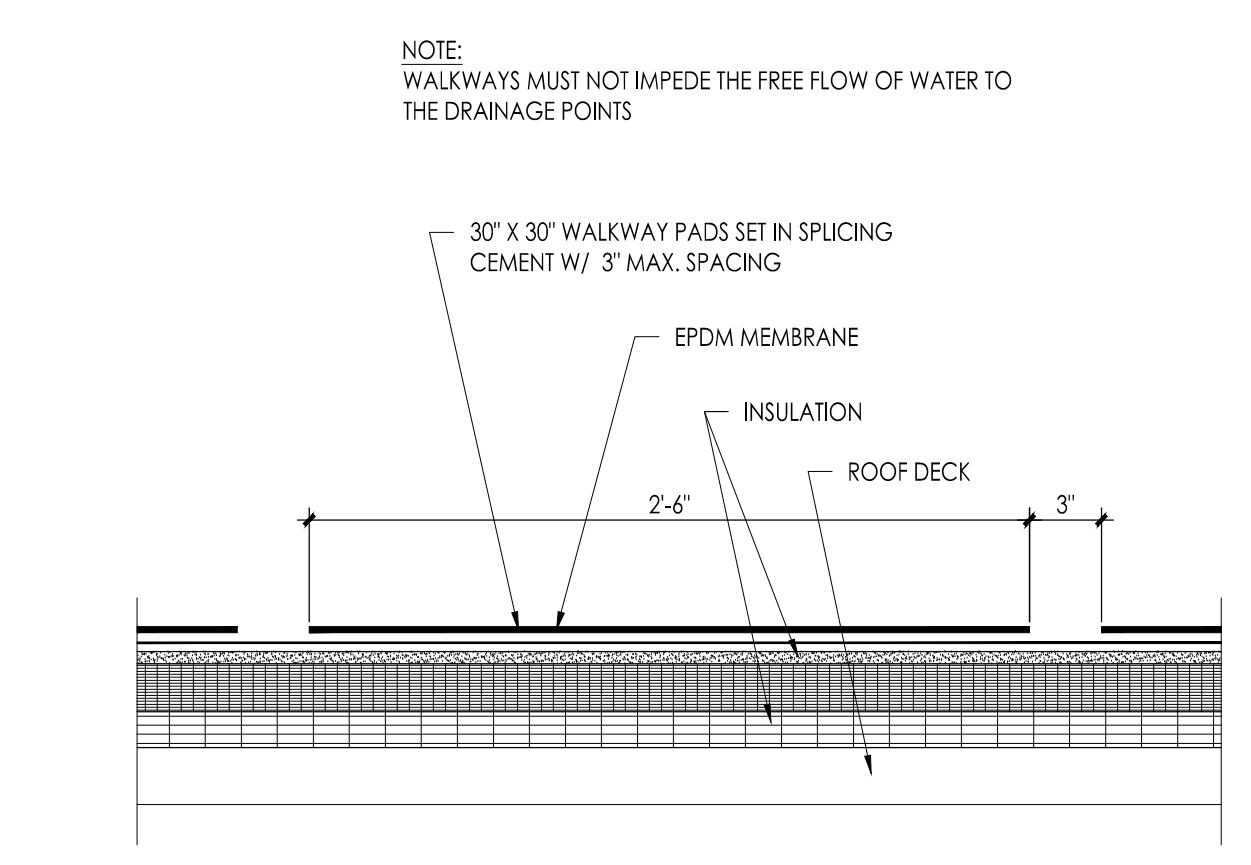
3 TYPICAL ROUND PENETRATION DETAIL @ HEAT STAC
3" = 1'-0"



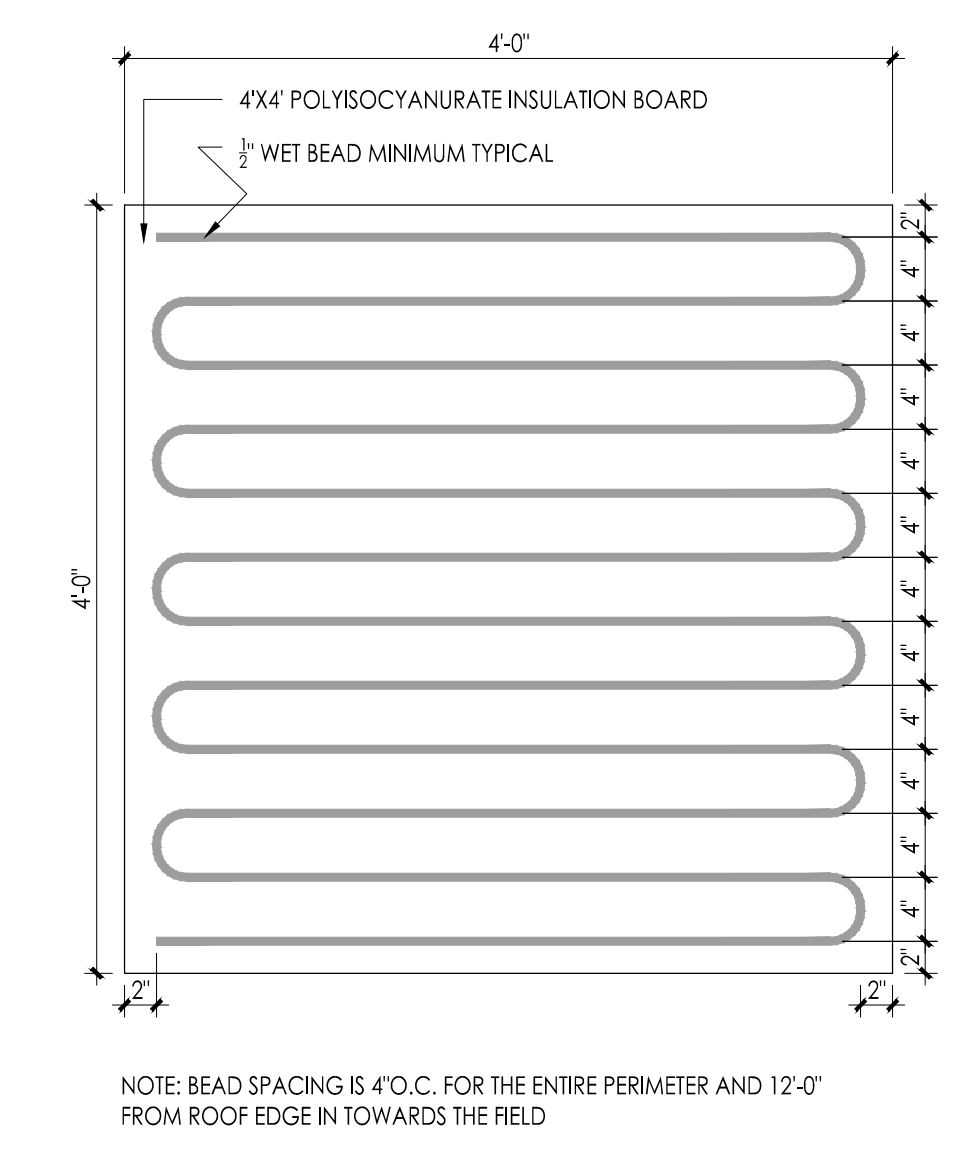
A CRICKET ASSEMBLY
3" = 1'-0"



4 TYPICAL SPLICE OF NEW ROOF MEMBRANE INTO EXG ROOF MEMBRANE
3" = 1'-0"



5 TYPICAL WALK WAY PAD DETAIL
1-1/2" = 1'-0"



6 TYPICAL INSULATION ADHESIVE BEAD SPACING
1" = 1'-0"

GENERAL DEMOLITION NOTES:

- A. THE ROOFING CONTRACTOR SHALL VERIFY THE EXACT LOCATION, DIMENSION, CONDITION AND QUANTITY OF ALL ROOFTOP EQUIPMENT AND APPURTENANCES WHICH INCLUDES, BUT ARE NOT LIMITED TO: EXHAUST FANS, VENT PIPES, GRILLS, MATCHES, FLUE PIPES, HOT STACKS, HVAC EQUIPMENT, CURBS, BASE FLASHINGS AND OTHER PENETRATIONS AND WORK ASSOCIATED WITH THIS ROOF PROJECT. INCORPORATE SAME IN THE ROOF INSULATION SHOP DRAWING SUBMITTAL.
- B. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM DEMOLITION CAREFULLY CAUSING NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. ANY DAMAGES MUST BE REPAIRED AND OR REPLACED BY THE ROOFING CONTRACTOR TO THE OWNER'S AND ARCHITECT'S SATISFACTION AND AT NO ADDITIONAL COST TO THE CONTRACT PRICE. PRIOR TO THE COMMENCEMENT OF WORK, THE ROOFING CONTRACTOR IS RESPONSIBLE TO INSPECT AND PHOTOGRAPH EXISTING CONDITIONS WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM DEMOLITION AND INSTALLATION WORK.
- C. FOR PURPOSES OF THIS PROJECT, REMOVE SHALL MEAN REMOVE AND DISPOSE OF SAME OFF SITE IN AN APPROVED AND LEGAL MANNER.
- D. DETAILS REFERENCED IN THE PHOTOGRAPHS AND ON THESE DRAWINGS ARE TYPICAL. PHOTOGRAPHS ARE INTENDED TO SHOW TYPICAL EXISTING CONDITIONS AND ARE NOT INTENDED TO LIMIT SCOPE. THE ROOFING CONTRACTOR SHALL VERIFY THE TOTAL NUMBER AND EXACT LOCATION OF CONDITIONS IN THE FIELD AND PERFORM WORK IN ACCORDANCE WITH THE DETAILS REFERENCED AND/OR THOSE WHICH ARE SIMILAR.
- E. THE ROOFING CONTRACTOR SHALL COORDINATE ALL DUMPSTER STAGING AND TRUCK ROUTES WITH THE OWNER. THE ROOFING CONTRACTOR SHALL PROTECT ALL EXISTING PAVED AND PLANTED AREAS. THE ROOFING CONTRACTOR SHALL REPAIR ANY PAVED OR PLANTED AREAS TO THE SATISFACTION OF THE OWNER. THE REPAIRS ARE TO INCLUDE, BUT ARE NOT LIMITED TO: REPAIRING OF ASPHALT DRIVEWAYS AND PARKING LOTS, REGRADING AND SEEDING OF LAWNS AND PLAYGROUND AREAS AND REPLACING DAMAGED PLANTS, SHRUBS, ETC. ALL REPAIRS AND RESTORATIONS SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT PRICE.
- F. THE BUILDING IS OCCUPIED. THE ROOFING CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF ALL PERSONS AT THE PROJECT SITE.

DEMOLITION NOTES:

- 1 REMOVE EXISTING CRICKET AND ROOFING MEMBRANE IN THIS AREA.
- 2 DEMOLISH AND REMOVE EXISTING CHIMNEY BY GENERAL CONTRACTOR. ROOFING CONTRACTOR TO PROVIDE AND MAINTAIN WATER TIGHT CONDITION AFTER CHIMNEY IS REMOVED.
- 3 REMOVE EXISTING ROOF IN ITS ENTIRETY TO THE TOP OF THE EXISTING ROOF DECK WHICH IS TO REMAIN.

GENERAL CONSTRUCTION NOTES

- A. PROVIDE ROOFING MATERIALS THAT COMPLY WITH A CLASS 'A' SYSTEM.
- B. NEW IMPOSED DEAD LOAD IS EQUAL TO OR LESS THAN EXISTING DEAD LOAD.
- C. ALL LOW SLOPED ROOF AREAS ARE MINIMUM OF 1/2" PER FOOT IN THE FIELD AND 1/2" PER FOOT AT THE CRICKETS. SLOPE OF CRICKET IS PERPENDICULAR TO CRICKET VALLEY LINE.
- D. FRT WOOD BLOCKING SHOWN ON DRAWINGS IS DIAGRAMMATIC. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING CONSTRUCTION IN THICKNESS AND HEIGHT TO MATCH THICKNESS OF ROOF ASSEMBLY.
- E. THE ROOFING CONTRACTOR IS RESPONSIBLE FOR FLASHING ALL ROOF TOP PENETRATIONS, UNITS, AND CURBS ON THE ROOFS TO A WATER TIGHT CONDITION TO BE INCLUDED IN THE MANUFACTURER'S WARRANTY. REVIEW ALL DRAWINGS INCLUDED IN THIS SET FOR ROOFTOP PENETRATIONS. ALL ROOF TOP PENETRATIONS, UNITS, AND CURBS SHALL BE A MINIMUM OF 8" ABOVE THE ROOF SYSTEM.
- F. HIGH POINTS INDICATED ON DRAWINGS ARE SHOWN FOR GUIDANCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FINAL TAPERED INSULATION DESIGN. ANY REQUIRED ADJUSTMENTS MADE BY THE CONTRACTOR TO THE INDICATED DESIGN GUIDELINES ARE AT NO ADDITIONAL COST TO THE OWNER.
- G. UNLESS NOTED OTHERWISE ALL ROOFING, ACCESSORIES, MATERIALS, ETC. SHALL BE CONSIDERED NEW.
- H. CONTRACTOR SHALL MAKE NECESSARY TIE-INS AND ALTERATIONS TO EXISTING ROOF IN ACCORDANCE WITH ORIGINAL ROOF MANUFACTURER'S REQUIREMENTS, SO AS TO MAINTAIN ORIGINAL WARRANTY ON EXISTING ROOF.
- I. CONTRACTOR SHALL AT ALL TIMES HAVE A FULL SET OF DRAWINGS AND SPECIFICATIONS ON ROOF TOP WHILE WORK IS IN PROGRESS.
- J. CONTRACTOR IS RESPONSIBLE TO RECTIFY ANY PONDING WATER ON FINISHED ROOF SURFACE THAT REMAINS AFTER 48 HOURS AT NO ADDITIONAL COST.

CONSTRUCTION NOTES - EPDM

- 1 ROOFTOP EQUIPMENT: RAISE CURBS ON FRT WOOD BLOCKING TO ACHIEVE THE MINIMUM 8" FLASHING HEIGHT REQUIRED. APPLY EPDM ROOFING MEMBRANE UP CURB USING SECUREMENT STRIP AT BASE OF CURB AND FASTEN ALONG TOP EDGE. INSTALL TWO-PIECE COUNTERFLASHING UNDER THE ROOFTOP UNITS COUNTERFLASHING WITH CONTINUOUS CORNERS SEE DETAIL 1 THIS SHEET.
- 2 HEAT STACKS: - INSTALL ROOF ANGLE FLANGE AND MEMBRANE FLASHING ON THE TOP SURFACE OF THE NEW ROOFING MEMBRANE SYSTEM. COVER TOP OF ROOF ANGLE FLANGE WITH UMBRELLA SECURED IN PLACE WITH A STRAP CLAMP AND HEAT RESISTANT SEALANT - SEE DETAIL 3 THIS SHEET.
- 3 ALL CONDITIONS MEETING THE ROOFING PERPENDICULAR: INSTALL INSULATION AND SECUREMENT STRIP FASTENED TO ROOF DECK AT THE BASE OF THE WALL. RUN EPDM MEMBRANE UP VERTICAL SURFACE. ADHERE MEMBRANE TO INSULATION AND VERTICAL SURFACE WITH BONDING ADHESIVE AND TO THE SECUREMENT STRIP WITH SPICE ADHESIVE. APPLY WATERBLOCK BEHIND MEMBRANE JUST BELOW THE TOP EDGE OF THE MEMBRANE. SECURE MEMBRANE ALONG THE TOP EDGE EPDM THROUGH TERMINATION BAR 6" O.C. AND APPLY SEALANT. COVER ALL TERMINATION BARS WITH TWO-PIECE METAL COUNTERFLASHING SEE DETAIL 1 THIS SHEET.
- 4 EXG ROOFS TO REMAIN ARE UNDER WARRANTY. INSTALLATION OF ROOFTOP EQUIPMENT IN THESE AREAS SHALL BE DONE IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S REQUIREMENTS TO MAINTAIN SAID WARRANTY. TYPICAL.
- 5 CONSTRUCT 1/2" PER SLOPE CRICKET W/ POLYISOCYANURATE INSULATION AND 1/2" THICK THERMAL BARRIER BOARD. FASTEN POLYISOCYANURATE INSULATION THROUGH EXISTING ROOF SYSTEM INTO WOOD DECK. THERMAL BARRIER BOARD SHALL BE ADHERED TO POLYISOCYANURATE INSULATION - SEE ASSEMBLY 'A' THIS SHEET.
- 6 WALKWAY PADS: - INSTALL AROUND ALL ROOFTOP UNITS, AND ROOFTOP EQUIPMENT. MODIFY WALKWAYS AS REQUIRED SO THAT THE PAD DOES NOT IMPEDE THE FREE FLOW OF WATER TO THE DRAINAGE POINTS. SEE DETAIL 5 THIS SHEET.
- 7 EXG DOWNSPOUT: - SHORTEN AND MODIFY EXG DOWNSPOUT TO ACCOMMODATE INCREASED HEIGHT OF NEW CRICKET BELOW DOWNSPOUT. IF DOWNSPOUT CANNOT BE MODIFIED REPLACE W/ NEW TO MATCH EXG IN ALL RESPECTS AT NO ADDITIONAL COST TO OWNER.
- 8 NEW MEMBRANE TIE-IN: - INSTALL NEW EPDM MEMBRANE FLASHING AND SPICE TO EPDM EXISTING MEMBRANE. TIE-IN AS PER MANUFACTURER'S REQUIREMENTS TO MAINTAIN EXG WARRANTY - SEE DETAIL 4 THIS SHEET.
- 9 INSTALL ROOF INSULATION AND THERMAL BARRIER BOARD TO MATCH ADJACENT SLOPE. THICKNESS, R-VALUE AND SLOPE. INSTALL FULLY-ADHERED .060" EPDM MEMBRANE IN BONDING ADHESIVE. DO NOT WALK OR RUN EQUIPMENT UPON NEWLY APPLIED ROOFING FLIES UNTIL THE ADHESIVE HAS SET UP TO ELIMINATE THE POTENTIAL FOR VOIDS. INSTALL NEW FLASHING AND METAL COUNTERFLASHING AT HEAT STACK AND ROOF CURBS.

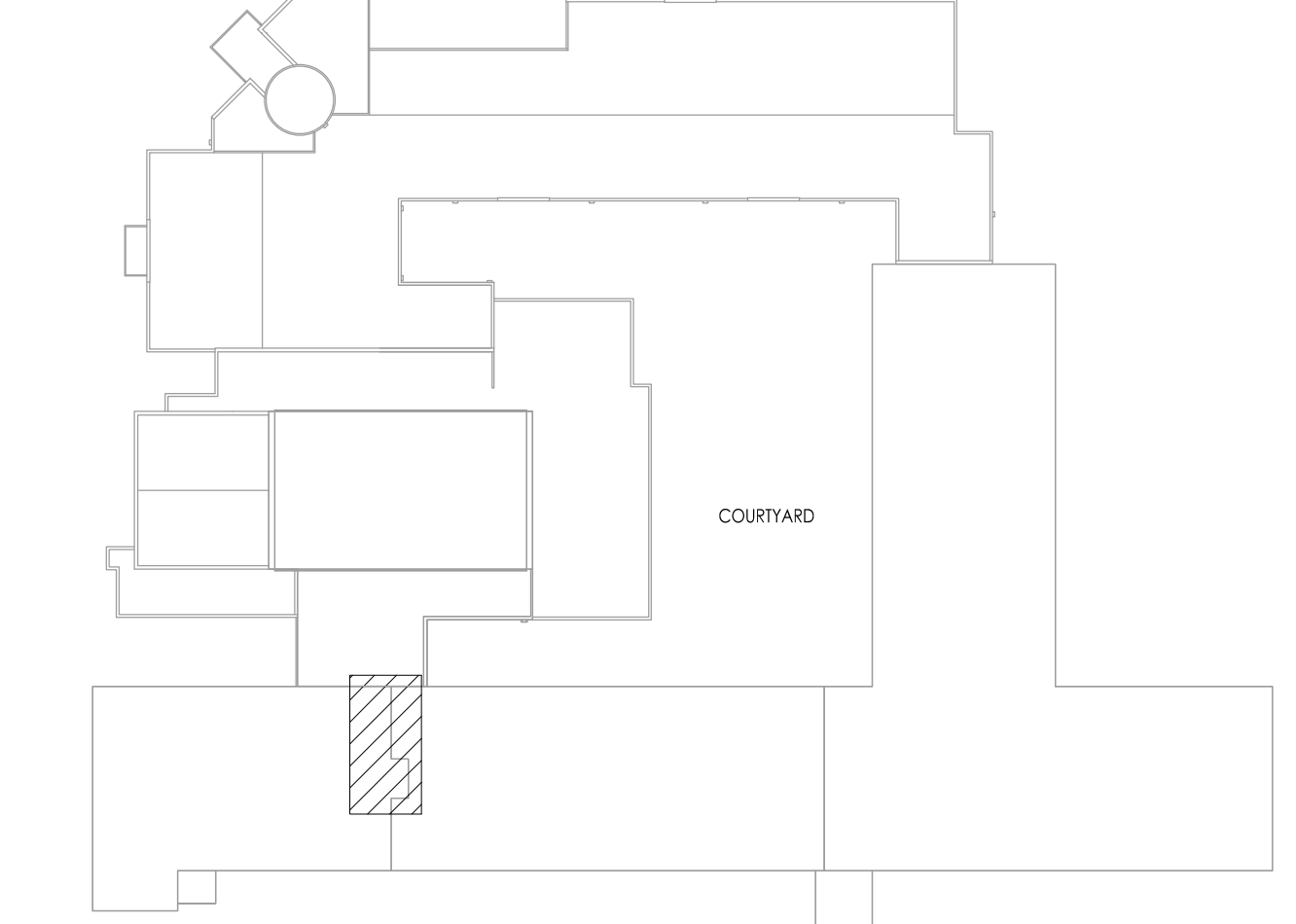
STAGING NOTES:

1. ROOF ACCESS THROUGH THE BUILDING IS NOT PERMITTED.
2. TEMPORARY TOILETS SHALL BE PROVIDED BY THE CONTRACTOR AND PLACEMENT COORDINATED WITH OWNER.
3. CONSTRUCTION SAFETY FENCING SHALL BE INSTALLED AROUND ALL STAGING AREAS.
4. THE CONTRACTOR IS TO CONTACT THE LOCAL MUNICIPALITY AND CONFIRM WORKING HOURS AND COMPLY WITH ALL NOISE ORDINANCE REQUIREMENTS.
5. PARKING, OF CONSTRUCTION VEHICLES, DUMPSTERS, AND EQUIPMENT IS NOT PERMITTED ON THE STREETS.
6. DUMPSTERS MUST BE EMPLOYED AT THE END OF EACH WORK DAY.
7. NO ENTRANCES, EXITS OR DRIVEWAYS SHALL BE BLOCKED AT ANY TIME.
8. ALL STAGING AREAS MUST BE APPROVED IN ADVANCE BY THE OWNER. THE ROOFING CONTRACTOR MUST SUBMIT A STAGING PLAN AND HAVE THE PLAN APPROVED BY THE OWNER. IF CHANGES TO THE STAGING PLAN MUST BE MADE DURING THE PROJECT, THE ROOFING CONTRACTOR MUST SUBMIT A REVISED PLAN TO THE OWNER AND OBTAIN WRITTEN APPROVAL BEFORE ADJUSTING THE STAGING AREAS.
9. THE CONTRACTOR IS NOT PERMITTED TO USE THE ROOFS THAT ARE NOT IN CONTRACT IN ANY CAPACITY.
10. ALL LAWN AND PAVED AREAS DAMAGED OR DISTURBED IN ANY WAY SHALL BE CLEANED AND RESTORED TO PRE-CONSTRUCTION CONDITION AT THE CONCLUSION OF THE WORK.
11. NO STAGING IS PERMITTED ON THE SIDEWALKS.

LEGEND



AREA OF WORK

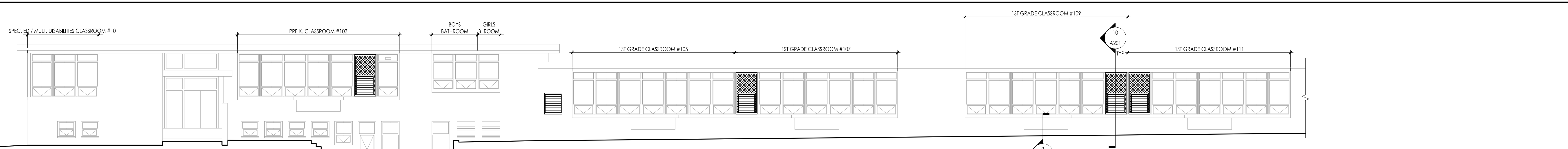


KEYPLAN
N.T.S.

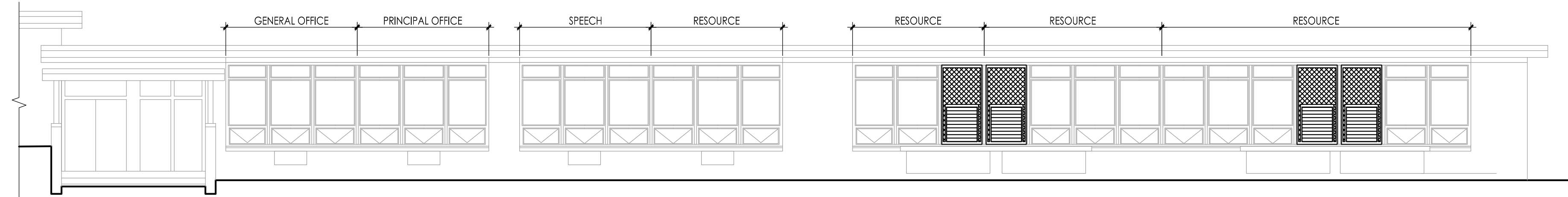
JOHN J. VEIZ, AIA, CSFA
P.E. # 148860001 P.A. # 42108198
WILLIAM D. HOPKINS III, AIA, LEED AP
P.E. # 124242001 P.A. # 42108208
GEORGE R. DUTHIE, JR., AIA, PP
P.E. # 124242002

FVHD architects planners
Fraytak Veisz Hopkins Duthie P.C.
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - North Cheltenham - Pennsylvania 19383

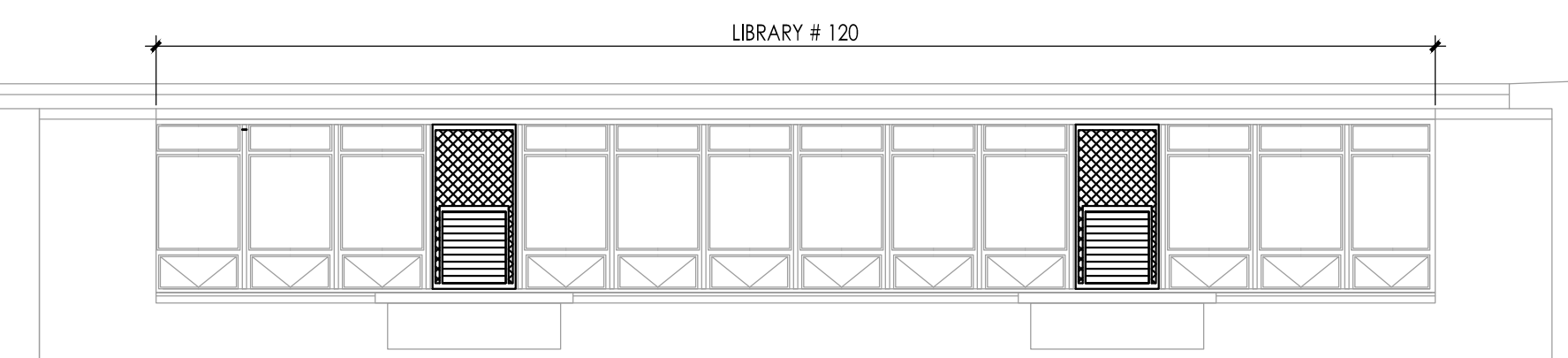
Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: MS
Scale: AS NOTED
Drawing Name: PARTIAL ROOF PLAN, NOTES AND ROOFING DETAILS
Revisions: No. Date Description
Drawing Number: A112



1 ELEVATION
Scale: 1/8" = 1'-0"

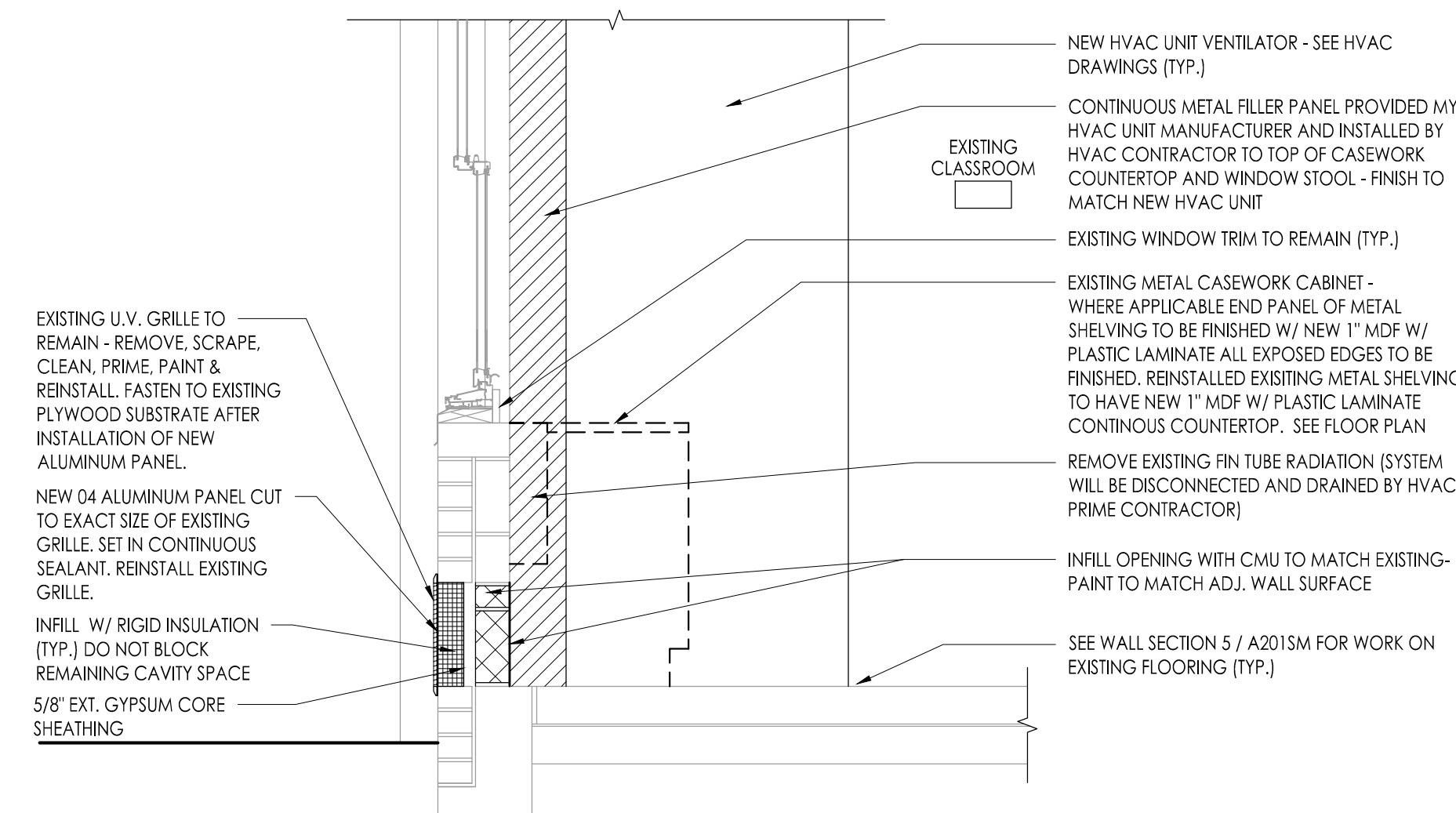


2 ELEVATION
Scale: 1/8" = 1'-0"

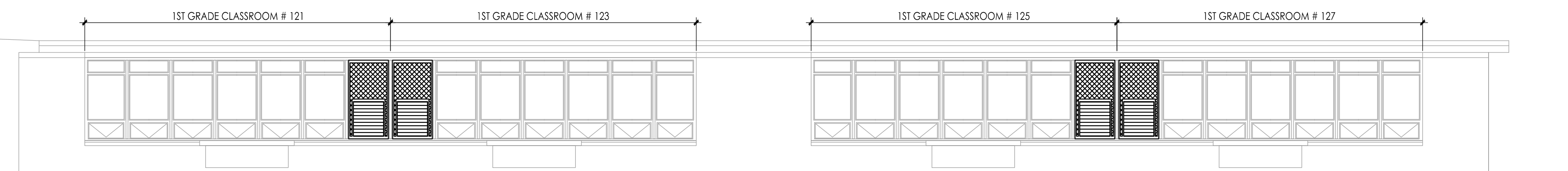
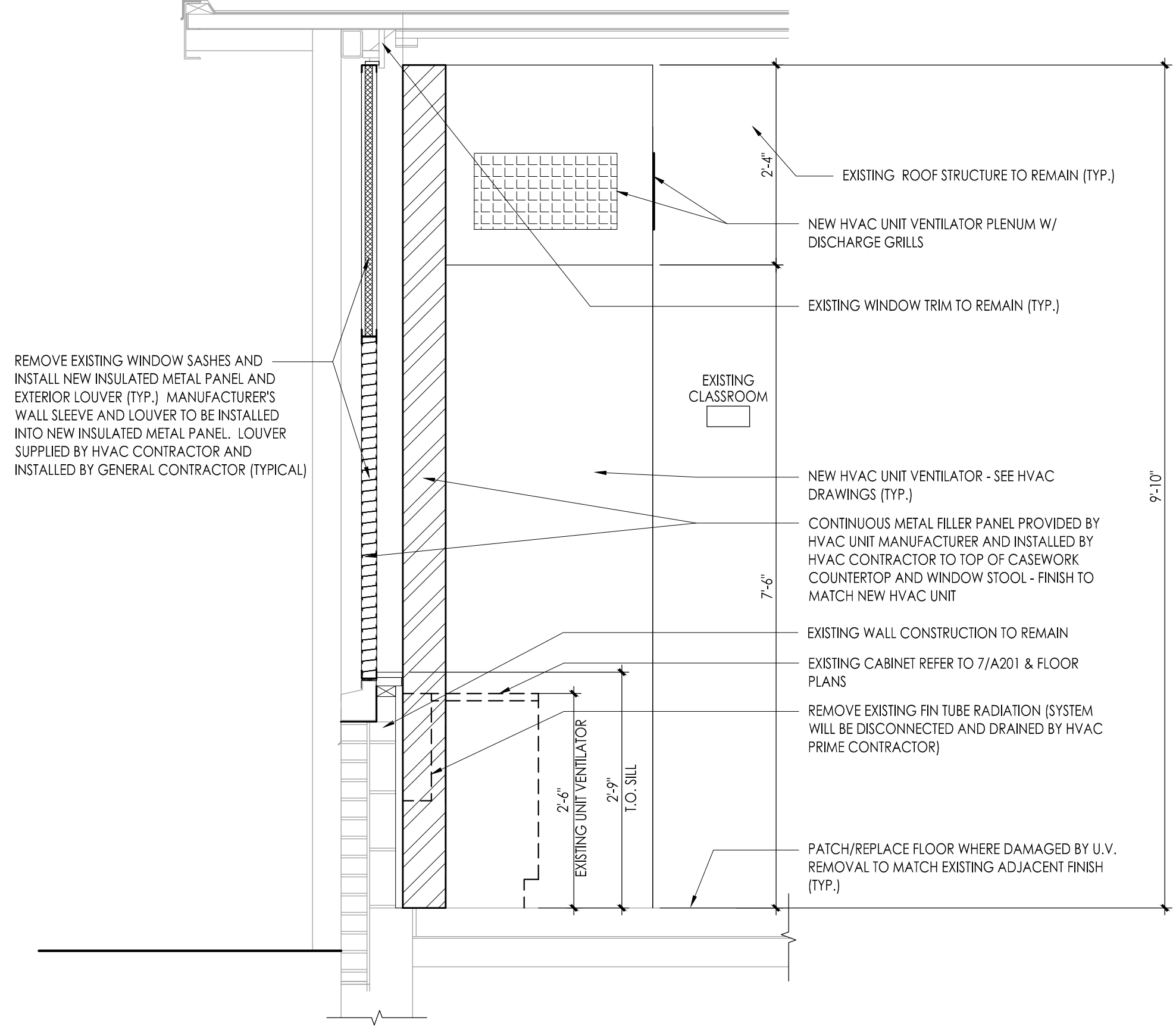


3 ELEVATION
Scale: 1/8" = 1'-0"

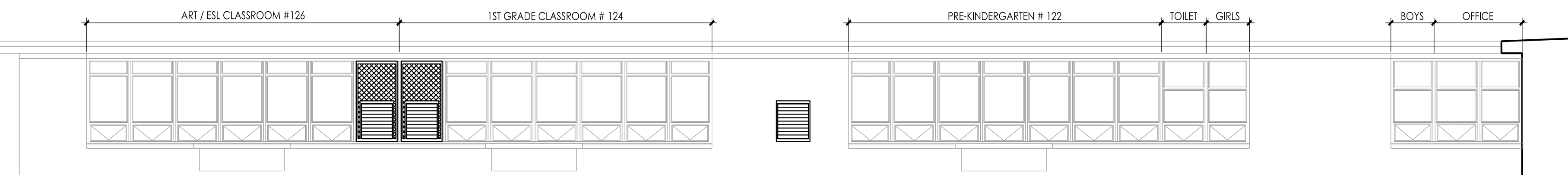
9 WALL SECTION
Scale: 1/4" = 1'-0"



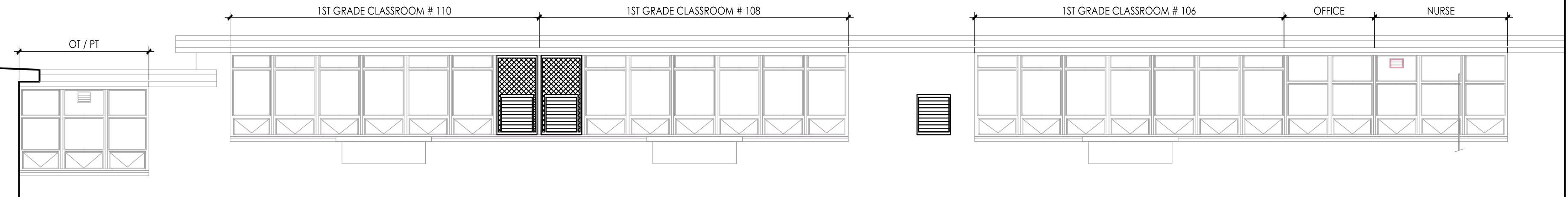
10 WALL SECTION
Scale: 3/4" = 1'-0"



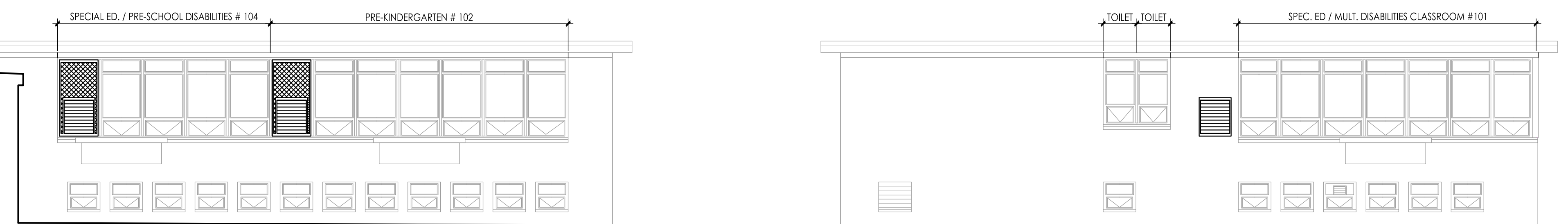
4 ELEVATION
Scale: 1/8" = 1'-0"



5 ELEVATION
Scale: 1/8" = 1'-0"

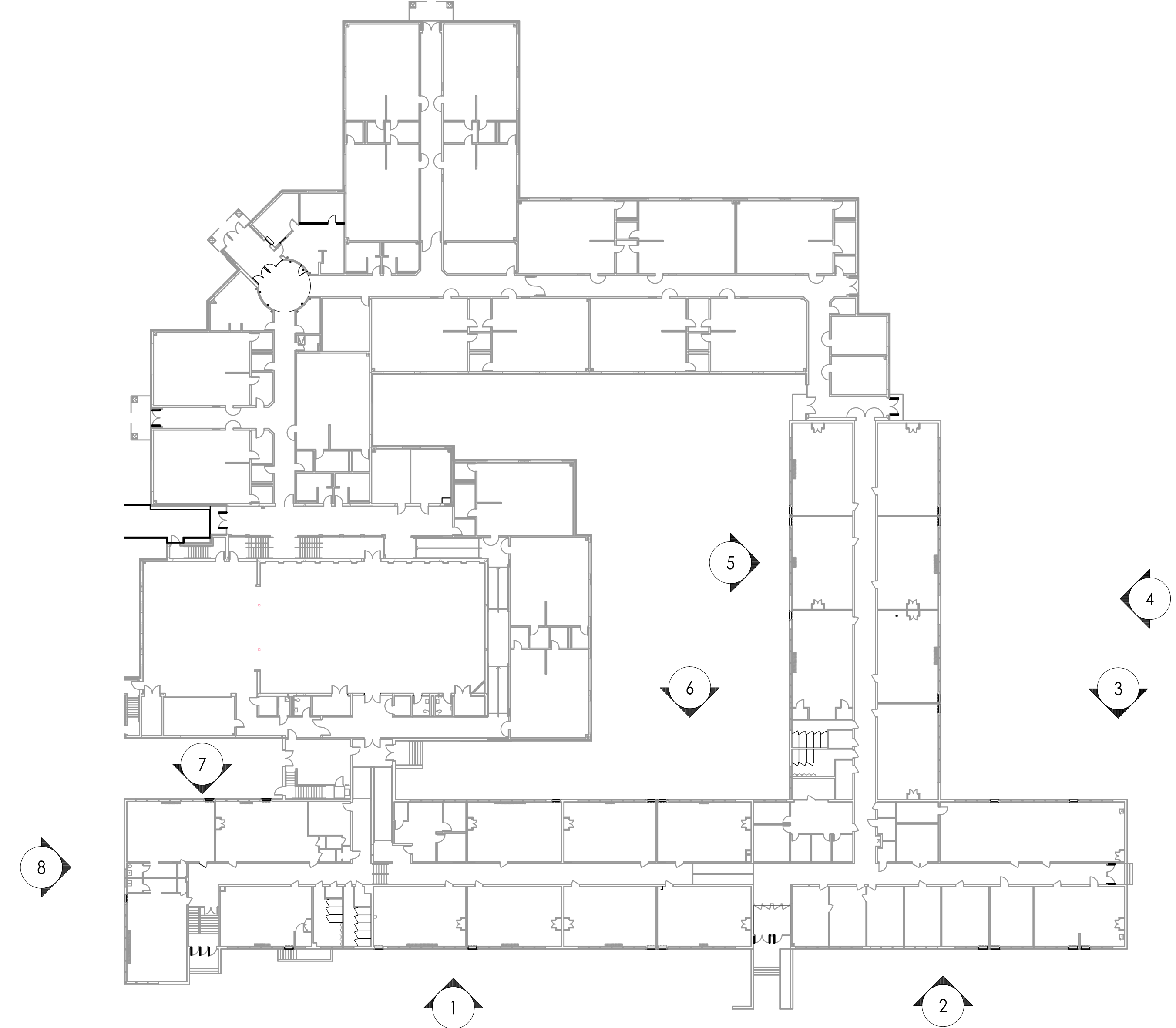


6 ELEVATION
Scale: 1/8" = 1'-0"



7 ELEVATION
Scale: 1/8" = 1'-0"

8 ELEVATION
Scale: 1/8" = 1'-0"



KEY PLAN

JOHN J. VEISZ, AIA, CSQA
 NJ-21488600 / PA-84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-34470001 / PA-84202004
 GEORGE R. DUTHIE JR., AIA, PF
 NJ-21487920

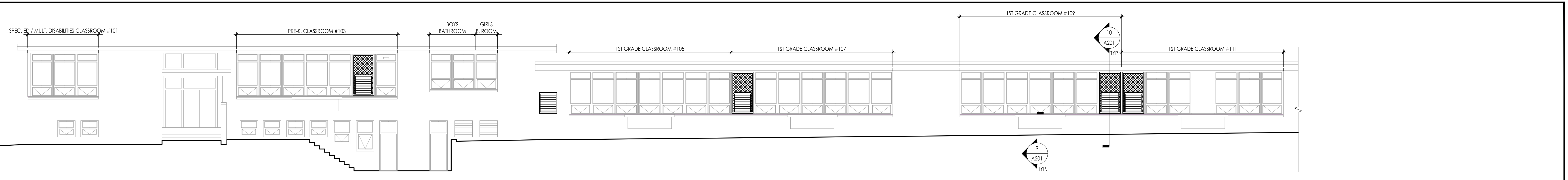
FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P.C.
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Whittaker Ave - North Cresskill - Pennsylvania 17433

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
 Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
 Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330
 Project Number: 4937B
 Project Date: 02.15.2019
 Checked By: JJV
 Drawn By: HJIII
 Scale: AS NOTED
 Drawing Name: ELEVATIONS

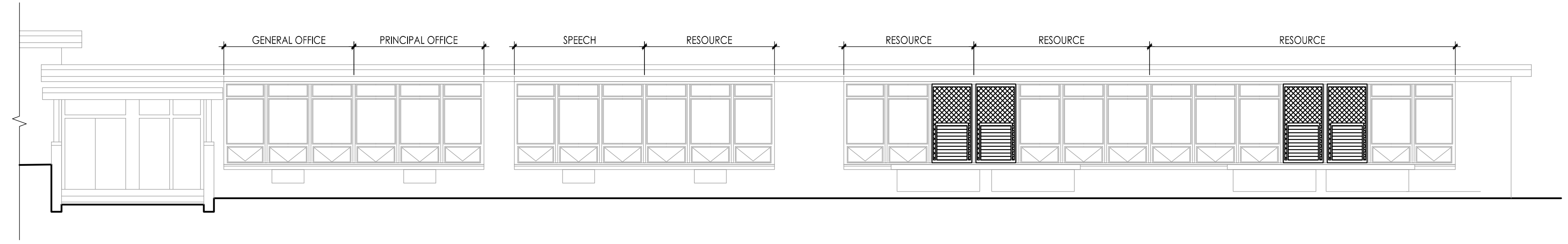
F V H D P C - C O M
 Date: _____
 Approved: _____

Revisions		
No.	Date	Description

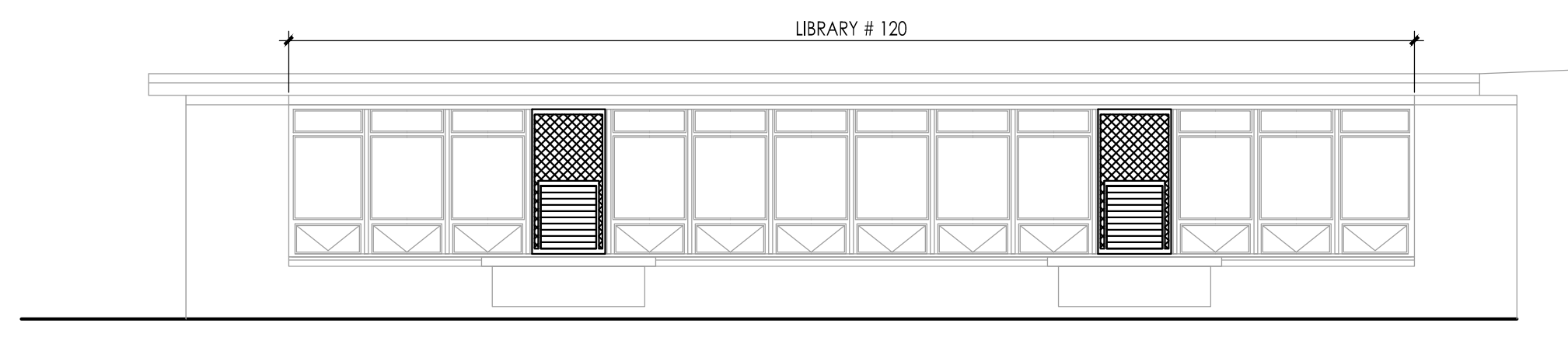
Drawing Number: **A201**



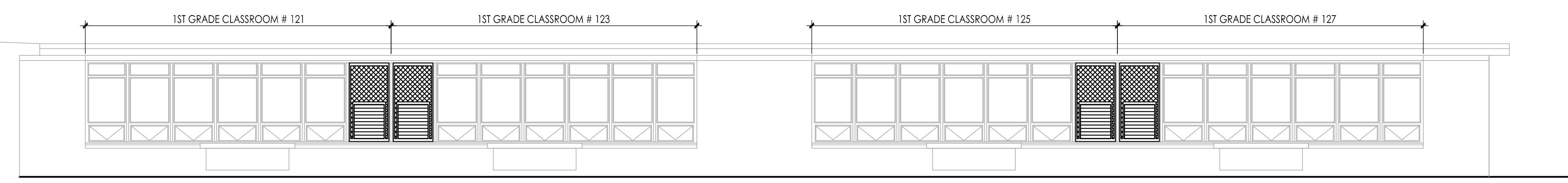
1 ELEVATION
Scale: 1/8" = 1'-0"



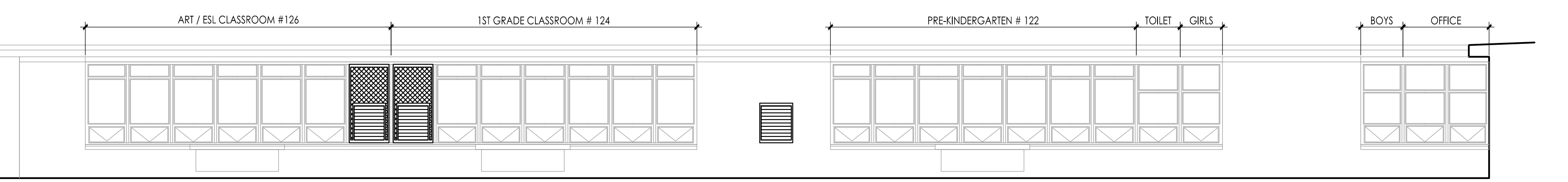
2 ELEVATION
Scale: 1/8" = 1'-0"



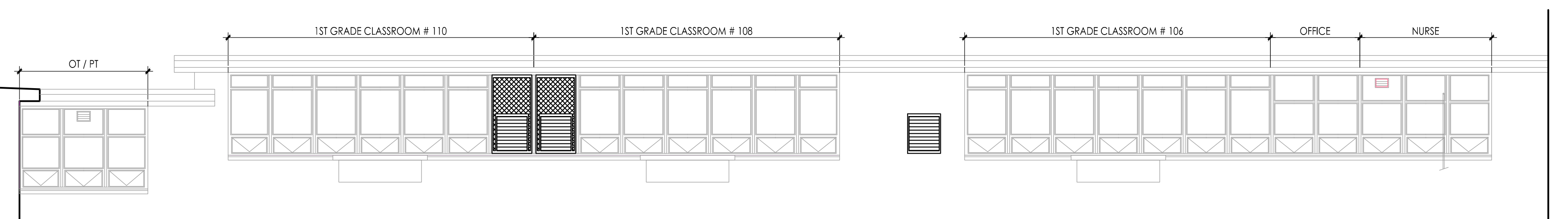
3 ELEVATION
Scale: 1/8" = 1'-0"



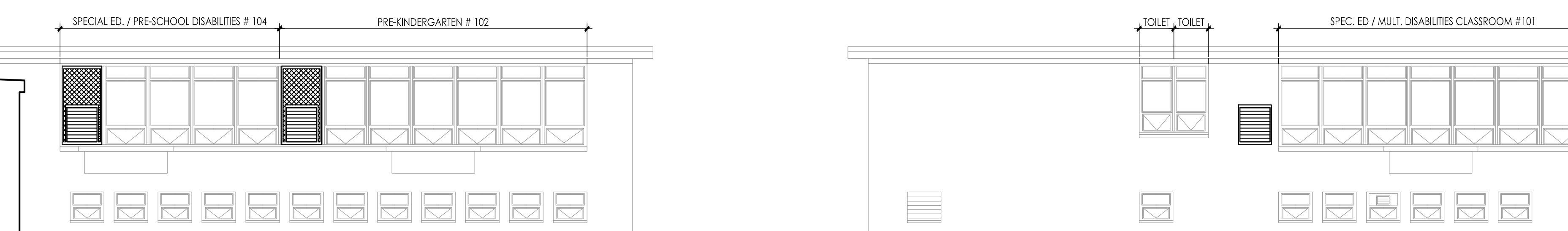
4 ELEVATION
Scale: 1/8" = 1'-0"



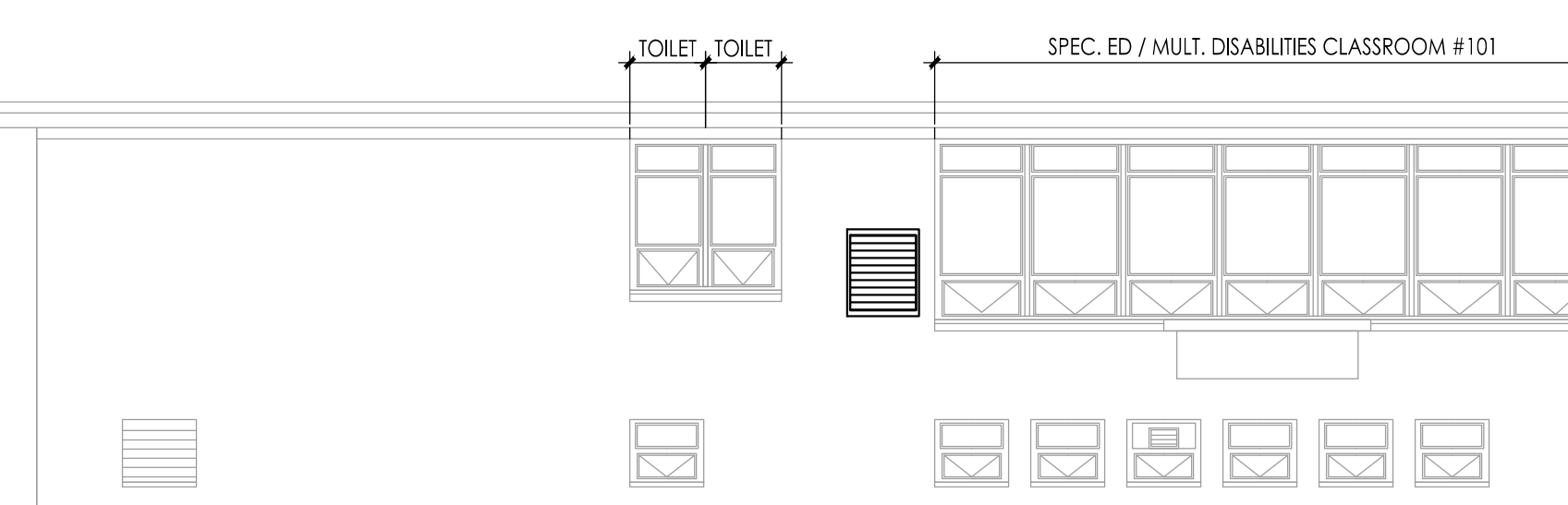
5 ELEVATION
Scale: 1/8" = 1'-0"



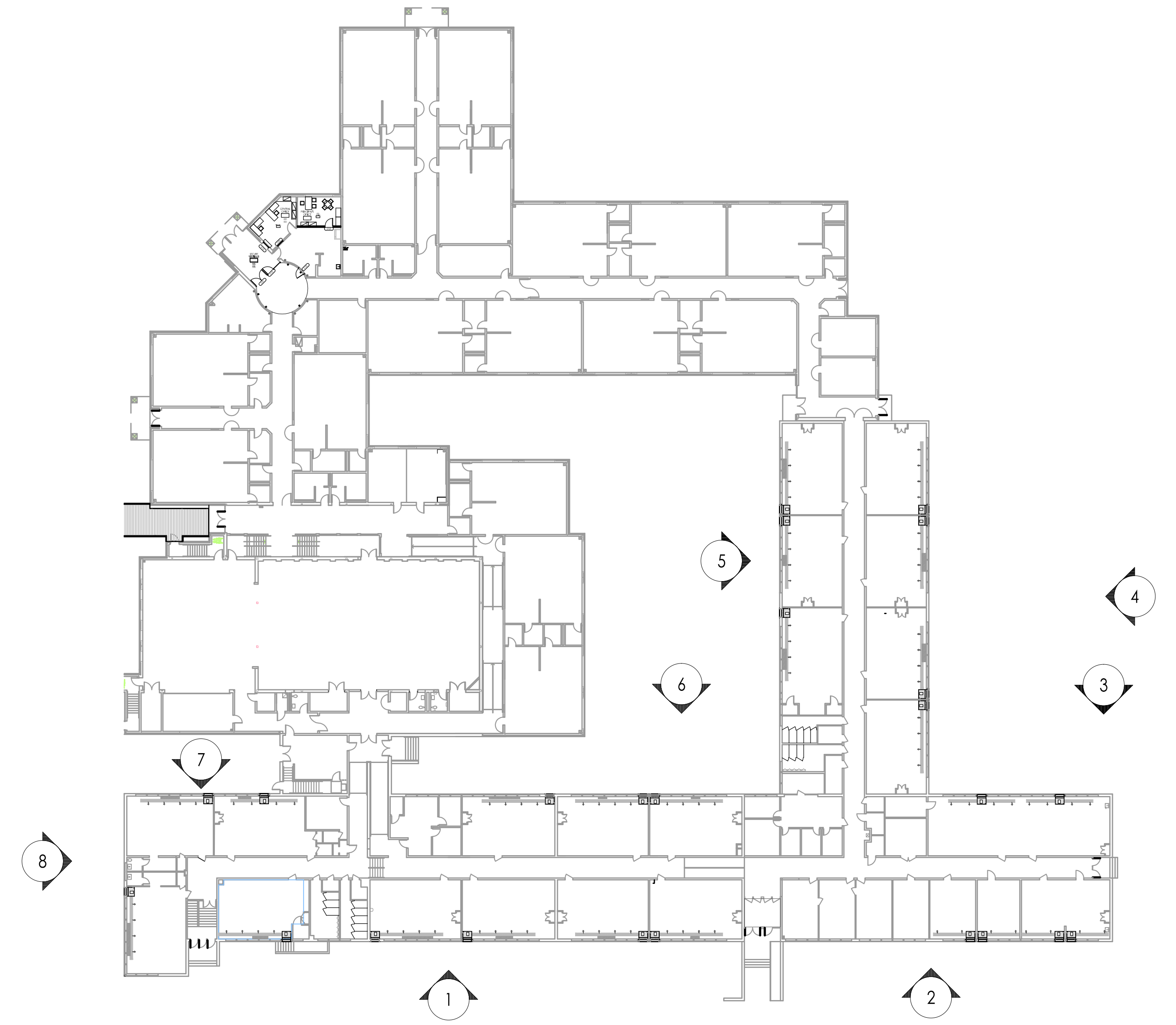
6 ELEVATION
Scale: 1/8" = 1'-0"



7 ELEVATION
Scale: 1/8" = 1'-0"



8 ELEVATION
Scale: 1/8" = 1'-0"



KEY PLAN

JOHN I. VEISZ, AIA, CSFA
 NU-PA1806401 PA - 84201818
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NU-PA1806401 PA - 84202004
 GEORGE K. DUTHIE, JR., AIA, PP
 NU-PA1806401 PA - 84202000

FVHD architects
 planners
 Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Teatons - New Jersey 08028
 Pennsylvania: 140 Whittaker Ave - Mont Clare - Pennsylvania 17433

F V H D P C - C O M
 Date: _____
 Approved: _____

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**5801 3rd ST
 MAYS LANDING,
 NJ 08330**

Project Number
4937B
 Project Date
02.15.2019
 Checked By
JJV
 Drawn By
HJIII
 Scale
AS NOTED

Drawing Name
ELEVATIONS ALTERNATE BID

Revisions		
No.	Date	Description

Drawing Number
A201a

ADDITION / ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

5801 3RD ST, MAYS LANDING, NJ 08330

HAMILTON TOWNSHIP BOARD OF EDUCATION

5801 3rd, MAYS LANDING, NJ 08330



FVHD architects
planners

Fraytak Veisz Hopkins Duthie P C
New Jersey | Pennsylvania | fvhdpc.com

GILLAN & HARTMANN, INC

MEP ENGINEERS | MONT CLARE - PA

Addition / Alterations / Renovations at
Joseph C. Shaner Memorial Elementary School
FVHD 4937B - NJ DOE No. 1940-060-18-1000

DRAWING INDEX	
GENERAL	
G001	TITLE SHEET AND DRAWING INDEX
G002	ABBREVIATIONS & GENERAL NOTES / DETAILS
CIVIL	
ARCHITECTURAL	
A100	SECURITY VESTIBULE
A101	SECURITY VESTIBULE
A102	SECURITY GLAZING & DOOR SCHEDULE
A103	EXTERIOR CANOPY ADDITION
A104	EXTERIOR CANOPY ADDITION
A105	ALTERNATIVE EXTERIOR CANOPY ADDITION
A106	FLOOR PLAN SINK REPLACEMENT
A107	FLOOR PLAN CORRIDOR CARPET REPLACEMENT / TREAD RISER REPLACEMENT
A108	LOADING DOCK
A109	FLOOR PLAN CORRIDOR CARPET REPLACEMENT / TREAD RISER REPLACEMENT
A109a	ALTERNATIVE HVAC DEMO
A110	HVAC FLOOR PLAN - NEW WORK
A110a	ALTERNATIVE HVAC FLOOR PLAN - NEW WORK
A111	HVAC RCP
A111a	ALTERNATIVE HVAC RCP
A112	PARTIAL ROOF PLAN, NOTES & DETAILS
A201	ELEVATIONS

DRAWING INDEX	
PLUMBING	
P001	PLUMBING GENERAL NOTES, LEGEND, ABBREVIATIONS, SCHEDULES, & DETAILS
P101	PARTIAL FLOOR PLAN: PLUMBING REMOVALS-BLOCK C
P102	PARTIAL FLOOR PLAN: PLUMBING REMOVALS-BLOCKS D1 & D2
P201	PARTIAL BASEMENT & FIRST FLOOR PLANS: PLUMBING NEW WORK-BLOCKS A,B,C, & E
P202	PARTIAL FIRST FLOOR PLANS: PLUMBING NEW WORK-BLOCKS D1 & D2
MECHANICAL	
H001	HVAC GENERAL NOTES, LEGENDS, & ABBREVIATIONS
H101	PARTIAL BASEMENT & FIRST FLOOR PLANS: PLUMBING HVAC- BLOCKS A,B,C, & E
H102	PARTIAL FIRST FLOOR PLANS: HVAC REMOVALS- BLOCKS D1 & D2
H121	ROOF PLAN: HVAC REMOVALS
H201	PARTIAL BASEMENT & FIRST FLOOR PLANS: HVAC NEW WORK- BLOCKS A,B,C, & E- DUCTWORK
H202	PARTIAL FIRST FLOOR PLANS: HVAC NEW WORK- BLOCKS D1 & D2- DUCTWORK
H211	PARTIAL BASEMENT & FIRST FLOOR PLANS: HVAC NEW WORK- BLOCKS A,B,C, & E PIPING
H212	PARTIAL FIRST FLOOR PLANS: PLUMBING NEW WORK-BLOCKS D1 & D2- PIPING
H221	ROOF PLAN: HVAC NEW WORK
H501	HVAC DETAILS
H601	HVAC SCHEDULES
ELECTRICAL	
E001	ELECTRICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS
E002	ELECTRICAL SINGLE LINE DIAGRAM
E003	ELECTRICAL LOCATION PLAN AT GRADE
E004	ELECTRICAL PARTIAL ROOF LOCATION PLAN
E101	PARTIAL BASEMENT & FIRST FLOOR PLANS: ELECTRICAL REMOVALS- BLOCKS A,B,C, & E
E102	PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS- BLOCKS D1 & D2
E201	PARTIAL BASEMENT & FIRST FLOOR PLANS: ELECTRICAL NEW WORK- BLOCKS A,B,C, & E- POWER & SYSTEMS
E202	PARTIAL FIRST FLOOR PLANS: ELECTRICAL NEW WORK-BLOCKS D1 & D2 POWER SYSTEMS
E500	ELECTRICAL DETAILS
E600	ELECTRICAL PANEL SCHEDULES

FVHD architects
planners
Fraytak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 17433

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: JJV
Drawn By: dsb
Scale: AS NOTED
Drawing Name: TITLE SHEET DRAWINGS INDEX
Drawing Number: G001

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST MAYS LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
JJV
Drawn By
dsb
Scale
AS NOTED

Drawing Name
TITLE SHEET DRAWINGS INDEX

Revisions
No. Date Description

Drawing Number
G001

ALTERATION AND RENOVATION TO WILLIAM DAVIES MIDDLE SCHOOL

1876 DENNIS FORMAN DR., MAYS LANDING, NJ 08330

HAMILTON TOWNSHIP BOARD OF EDUCATION

5801 3rd, MAYS LANDING, NJ 08330



GILLAN & HARTMANN, INC
MEP ENGINEERS | MONT CLARE - PA

Addition / Alterations / Renovations at
William Davies Middle School
FVHD 4937A - NJ DOE No. 1940-120-18-1000

DRAWING INDEX	
GENERAL	
G001	TITLE SHEET AND DRAWING INDEX
G002	ABBREVIATIONS, NOTES
CIVIL	
ARCHITECTURAL	
A100	SECURITY GLAZING & DOOR SCHEDULE
A101	TOILET DEMOLITION PLANS
A102	TOILET AND LOCKER ROOM NEW WORK PLANS
A103	GYMNASIUM DEMOLITION PLAN, NEW WORK PLAN, DETAILS
A104	INTERIOR GYM ELEVATIONS
A105	OUT BUILDING PLANS, SECTIONS, AND DETAILS / NOTES
A106	HVAC PARTIAL FIRST FLOOR DEMOLITION PLAN BLOCK B
A107	HVAC PARTIAL FIRST FLOOR PLAN - NEW WORK BLOCK B
A108	HVAC PARTIAL FIRST FLOOR REFLECTED CEILING PLAN BLOCK B
A109	HVAC PARTIAL FIRST FLOOR DEMOLITION PLAN BLOCK C
A110	HVAC PARTIAL FIRST FLOOR PLAN - NEW WORK BLOCK C
A111	HVAC PARTIAL FIRST FLOOR REFLECTED CEILING PLAN BLOCK C

DRAWING INDEX	
PLUMBING	
P001	PLUMBING GENERAL NOTES, LEGEND, ABBREVIATIONS, SCHEDULES, & DETAILS
P101	PARTIAL FLOOR PLAN: PLUMBING REMOVALS
P121	ROOF PLAN: PLUMBING REMOVALS
P201	PARTIAL FIRST FLOOR PLAN: PLUMBING NEW WORK- TOILET & LOCKER ROOMS
P221	ROOF PLAN: PLUMBING NEW WORK
MECHANICAL	
H001	HVAC GENERAL NOTES, LEGENDS, & ABBREVIATIONS
H101	PARTIAL FIRST FLOOR PLAN: HVAC REMOVALS- BLOCK A
H102	PARTIAL FIRST FLOOR PLAN: HVAC REMOVALS- BLOCK B
H103	PARTIAL FIRST FLOOR PLAN: HVAC REMOVALS- BLOCK C
H121	ROOF PLAN: PLUMBING REMOVALS
H201	PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK- BLOCK A - DUCTWORK
H202	PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK- BLOCK B - DUCTWORK
H203	PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK- BLOCK C - DUCTWORK
H211	PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK- BLOCK A - PIPING
H212	PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK- BLOCK B - PIPING
H213	PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK- BLOCK C - PIPING
H221	ROOF PLAN: PLUMBING REMOVALS
H501	HVAC DETAILS
H601	HVAC SCHEDULES
H602	HVAC SCHEDULES
ELECTRICAL	
E001	ELECTRICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS
E101	PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS- BLOCK A
E102	PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS- BLOCK B
E103	PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS- BLOCK C
E201	PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK- BLOCK A- POWER AND SYSTEMS
E202	PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK- BLOCK B- POWER AND SYSTEMS
E203	PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK- BLOCK C- POWER AND SYSTEMS
E221	ROOF PLAN: ELECTRICAL NEW WORK
E500	ELECTRICAL DETAILS
E600	ELECTRICAL PANEL SCHEDULES

FVHD architects
planners
Fraytak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whittaker Ave - Mont Clare - Pennsylvania 17433
F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO
WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR
MAYS LANDING,
NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
JJV

Drawn By
dsb

Scale
AS NOTED





Revisions
No. Date Description

Drawing Number
G001















ELECTRICAL SYMBOL LEGEND:

-  EXISTING TO REMAIN
-  NEW OR REMOVAL. REFER TO PLANS & ADDITIONAL INFORMATION ON THE SYMBOL LEGEND






SOUND SYSTEM EQUIPMENT

-  GYMNASIUM SOUND SYSTEM LOUDSPEAKER. ARROW POINTS TO AREA OF FOCUS. COORDINATE THE EXACT LOCATION AND SPEAKER AIMING WITH THE OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
-  GYMNASIUM SOUND SYSTEM WIRED FIN ANTENNA, MOUNTED IN GYMNASIUM CEILING
-  GYMNASIUM SOUND SYSTEM, FLOOR MOUNTED EQUIPMENT CABINET
-  GYMNASIUM SOUND SYSTEM EQUIPMENT, WALL MOUNTED



POWER

-  DISCONNECT SWITCH, NUMBERS INDICATE AMPERAGE/# OF POLES, 30A/3P, UNO
-  MOTOR STARTER PROVIDED BY OTHERS
-  MOTOR RATED 20 AMP SNAP DISCONNECT SWITCH WITH MOTOR OVERLOAD
-  KEY SWITCH
-  20A EXTERIOR WEATHERPROOF GFI TYPE DUPLEX CONVENIENCE RECEPTACLE WITH COVER TO MAINTAIN WEATHERPROOF CONNECTION FOR ATTACHMENT PLUG IN ACCORDANCE WITH NEC 406.9(B)
-  20A GFI TYPE DUPLEX CONVENIENCE RECEPTACLE
-  EXISTING ELECTRIC WATER COOLER RECEPTACLE
-  DUPLEX RECEPTACLE WITH (1) XLR MICROPHONE JACK, FLOOR MOUNTED WITH LOCKABLE COVER PLATE
-  EXISTING ELECTRICAL POWER PANELBOARD
-  NEW ELECTRICAL POWER PANELBOARD
-  CIRCUIT BREAKER
-  JUNCTION BOX
-  MOTOR
-  ELECTRIC WATER HEATER






LIGHTING

-  1'x4' FULLY ENCLOSED INDUSTRIAL FIXTURE, CHAIN MOUNT TYPE AS INDICATED BY LETTER ON PLAN AND IN LIGHT FIXTURE SCHEDULE
-  8'x1'-2' EXTERIOR SURFACE WALL PACK WITH FACTORY INSTALLED PHOTOCELL TYPE AS INDICATED BY LETTER ON PLAN AND IN LIGHT FIXTURE SCHEDULE
-  1'x4' FULLY ENCLOSED INDUSTRIAL FIXTURE, CHAIN MOUNT WITH 10W EMERGENCY BATTERY PACK
-  BATHROOM VANITY LIGHTS TO BE REMOVED AND REINSTALLED TO ACCOMMODATE RE-TILING OF BATHROOM WALLS. COORDINATE REMOVAL AND REINSTALLATION WITH THE GENERAL CONTRACTOR
-  EXIT LIGHT; LETTER INDICATES TYPE AS DESCRIBED IN THE LIGHT FIXTURE SCHEDULE; WALL MOUNTED. PROVIDE NUMBER OF FACES AND DIRECTION CHEVRONS SHOWN ON ELECTRICAL AND ARCHITECTURAL DRAWINGS AND AS REQUIRED FOR PATH OF EGRESS. CONNECTED TO THE UNSWITCHED, CONTINUOUSLY POWERED PORTION OF THE INDICATED EMERGENCY POWER CIRCUIT

FIRE ALARM SYSTEM

-  DUCT MOUNTED SMOKE DETECTOR
-  CARBON MONOXIDE DETECTOR WIRED TO THE BUILDING FIRE ALARM SYSTEM

MISCELLANEOUS

-  HOME RUN - SEE PANEL SCHEDULE FOR REQUIREMENTS. PROVIDE 2#12+1#12G IN 3/4" C TO THE INDICATED PANELBOARD BREAKER UNLESS NOTED OTHERWISE
-  BRANCH CIRCUIT RUN CONCEALED IN CEILINGS AND WALLS - 2#12+1#12G IN 3/4" C UNO
-  SEE CONTINUATION OF BRANCH CIRCUIT - 2#12+1#12G IN 3/4" C UNO
-  NEW WORK NOTE DESIGNATION
-  REMOVAL WORK NOTE DESIGNATION

NUMBER: X
SHEET NUMBER: X-X
SCALE: 1/4" = 1'-0"
PLAN, SECTION, OR DETAIL

NORTH ARROW

GENERAL ELECTRICAL NOTES

(GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS)

- COORDINATE THE LOCATIONS OF EQUIPMENT AND ROUTING OF ELECTRICAL WIRING WITH THE TRADE DRAWINGS AND INSTALLING CONTRACTOR FOR THE MECHANICAL AND PLUMBING EQUIPMENT PRIOR TO INSTALLATION.
- PROVIDE MINIMUM 2#10AWG+1#12AWG WIRING FOR ALL 20A BRANCH CIRCUITS LONGER THAN 100 FEET.
- ALL EQUIPMENT IDENTIFICATION LABELS AND ALL FINAL ELECTRICAL PANEL SCHEDULES (FOR NEW AND EXISTING PANELS BASED ON THIS PROJECT) ARE TO BE UPDATED AND CONFORM TO THE OWNER'S ROOM NUMBERS AND ROOM NAMES. COORDINATE WITH THE OWNER AND ARCHITECT TO CONFIRM ACTUAL ROOM NUMBERS AND NAMES PRIOR TO THE START OF WORK.
- ALL WORK MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE 2014 EDITION.
- REMOVE AND REPLACE EXISTING CEILING TILES AND CEILING MOUNTED EQUIPMENT AS REQUIRED FOR ALL ELECTRICAL WORK.
- PERFORM ALL CUTTING, PATCHING, AND PAINTING NECESSARY TO PERFORM WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.
- FOR EXTERIOR SITE WORK SHOWN ON THE ELECTRICAL DRAWINGS PROVIDE TRENCHING, BACKFILLING, SHORING, SHEETING, DE-WATERING AND LAWN RESTORATION AS REQUIRED. PROVIDE CUTTING AND PATCHING OF CONCRETE AND MACADAM SURFACES.
- THE EXISTING ROOF IS UNDER WARRANTY. THE EXISTING ROOF WARRANTY SHALL BE MAINTAINED. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAIL REQUIREMENTS AND ASSIGNMENTS OF RESPONSIBILITY FOR ROOFING AND FLASHING WORK.
- FOR ELECTRICAL POWER BRANCH CIRCUITS EXTENDING TO EQUIPMENT ABOVE THE ROOF LEVEL UTILIZE THE EQUIPMENT CURBS AND BRANCH CIRCUIT WIRING RUBBER BOOTS PROVIDED BY THE HVAC CONTRACTOR FOR BRANCH CIRCUIT WIRING ACCESS TO ROOFTOP OUTLETS AND EQUIPMENT.
- FOR ALL NEW AND EXISTING PANELBOARDS USED ON THIS PROJECT PROVIDE A NEW TYPED PANELBOARD SCHEDULE THAT INCLUDES THE SAME INFORMATION FOR CIRCUITS NOT CHANGED ON THIS PROJECT AND THE NEW HVAC TAG NUMBERS AND APPLICABLE ROOM NUMBERS.
- PROVIDE PIPE SLEEVES FOR INSTALLATION OF RACEWAYS AND CABLES THROUGH FIRE RATED WALLS AND CEILING SLABS. ALL CORRIDOR WALL AND CEILING SLABS SHALL BE ASSUMED TO BE 1 1/2 HOUR. FOR ALL PENETRATIONS PROVIDE FIRE STOPPING USING A UL APPROVED ASSEMBLY FOR THE RESPECTIVE WALL OR SLAB CONSTRUCTION. REFER TO THE ARCHITECTURAL DOCUMENTS FOR WALL FIRE RATINGS.
- PROVIDE FIRE PROOFING AT WALL PENETRATIONS.
- COORDINATE CONSTRUCTION OF ALL ELECTRICAL WORK WITH THE ARCHITECTURAL, HVAC, AND PLUMBING WORK SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- ELECTRICAL CONDUITS AND DEVICE LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND ALL TRADE WORK BY OTHERS.
- ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE AMERICAN INSURANCE ASSOCIATION, INDUSTRIAL RISK INSURANCE UNDERWRITERS (IRI), FACTORY MUTUAL (FM), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRICAL CODE (NEC), AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF THE PUBLIC UTILITY COMPANIES SERVING THE SITE.
- ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE. AND ALL OTHER FEDERAL, STATE, AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
- FOR ALL HVAC EQUIPMENT BRANCH CIRCUITS INCLUDED IN THE REMOVAL AND NEW WORK PROCESS OF THIS PROJECT, VERIFY THAT THE CIRCUITS ACTUALLY FEED THE DEVICES LISTED ON THE PANEL SCHEDULE PRIOR TO REMOVING EQUIPMENT FROM THOSE BRANCH CIRCUITS.
- ALL NEW ELECTRICAL WIRING DEVICES AND BACKBOXES IN NEW CONCRETE MASONRY UNIT (CMU) AND STUD WALL CONSTRUCTION ARE TO BE RECESSED (FLUSH MOUNTED) UNLESS NOTED OTHERWISE.
- PROVIDE SURFACE MOUNTED RACEWAYS (WIREMOLD OR APPROVED EQUAL THAT IS PAINTED TO MATCH THE EXISTING WALL FINISH) FOR ALL NEW DEVICES SHOWN IN FINISHED AREAS OF EXISTING CONSTRUCTION. CONCEAL ALL BRANCH CIRCUIT WIRING IN CEILING CAVITY ABOVE LAY-IN CEILINGS.

GENERAL ELECTRICAL REMOVAL NOTES:

- UNLESS NOTED OTHERWISE, DEVICES INDICATED WITH SOLID LINES ON THE REMOVAL DRAWINGS INDICATES A DEVICE THAT IS REQUIRED TO BE DISCONNECTED AND REMOVED. FOR DEVICES INDICATED TO BE REMOVED AND NOT REINSTALLED, REMOVE ALL ASSOCIATED SAFETY SWITCHES, ELECTRICAL BOXES, RACEWAYS AND WIRING BACK TO THE POWER SOURCE WHERE AN EXISTING BRANCH CIRCUIT PROVIDES POWER TO MULTIPLE DEVICES INCLUDING SOME REQUIRED TO REMAIN IN PLACE, MAINTAIN BRANCH CIRCUIT POWER TO THE DEVICES THAT ARE REQUIRED TO REMAIN; INTERCEPT AND EXTEND BRANCH CIRCUIT WIRING AS REQUIRED.
- PROVIDE ALL WORK AND COSTS ASSOCIATED WITH THE DISCONNECTION, REMOVAL, RELOCATION, AND DISPOSAL OF THE ELECTRICAL EQUIPMENT THAT IS REQUIRED TO BE DEMOLISHED.
- THE OWNER RETAINS THE FIRST RIGHT TO KEEP ANY REMOVED EQUIPMENT. REVIEW THE DISPOSITION OF ALL EQUIPMENT WITH OWNER PRIOR TO REMOVAL. ALL EQUIPMENT AND OR MATERIAL BEING REMOVED IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RETAINED, DISPOSED OF, AND REMOVED FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES.
- QUANTITY OF HVAC EQUIPMENT SHOWN ON THE REMOVAL DRAWINGS IS INDICATIVE OF EXISTING QUANTITY AND LOCATION. REFER TO THE HVAC REMOVAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF HVAC EQUIPMENT TO BE DEMOLISHED. VERIFY ACTUAL QUANTITIES OF ASSOCIATED ELECTRICAL EQUIPMENT TO BE REMOVED, SUCH AS DISCONNECT SWITCHES AND MOTOR STARTERS, AND INCLUDE IN BID.
- PERFORM ALL REQUIRED PATCHING AND PAINTING AFTER DEMOLITION AS REQUIRED TO RESTORE SURFACES TO MATCH SURROUNDING SURFACE FINISHES.
- TAG ALL EQUIPMENT AND DEVICES BEING REMOVED AND REINSTALLED WITH THE ROOM NUMBER AND LOCATION FROM WHICH IT IS BEING REMOVED TO ENSURE THAT IT IS REINSTALLED IN THE SAME ROOM AND LOCATION.
- THE OWNER WILL REMOVE AND REINSTALL ALL MOVABLE EQUIPMENT AND FLOOR MOUNTED SHELVING UNO. REMOVE, STORE AND REINSTALL EXISTING BUILT-IN EQUIPMENT AS REQUIRED TO PERFORM THE WORK, UNLESS NOTED OTHERWISE.
- GENERAL ELECTRICAL REMOVAL NOTES APPLY TO ALL ELECTRICAL REMOVAL DRAWINGS AND DETAILS.
- FOR EXISTING BRANCH CIRCUITS THAT ARE ENTIRELY REMOVED, CLEARLY MARK THE EXISTING PANELBOARD SCHEDULE FOR THAT BRANCH CIRCUIT AS "SPARE."

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL #	WATT	FIXTURE TYPE		MOUNTING	REMARKS
				FLOOR	INCAN		
A	LITHONIA	FEM-L48-8000LM-IMACD-MD-MVOLT-40K-GZ10-80CRI-MHCH36	59		X	SURFACE MOUNT	FULLY ENCLOSED & GASKETED INDUSTRIAL MOUNTING CHAINS (PAIR)
B	H.E. WILLIAMS	WPTZ-L38/750-PC-UNV	42		X	SURFACE MOUNT	EXTERIOR MEDIUM TRAPEZOID WALL PACK FOR MOUNTING HEIGHT REFER TO ARCHITECTURAL DRAWINGS
C	LITHONIA	FEM-L48-8000LM-IMACD-MD-MVOLT-40K-GZ10-80CRI-BSL520-MHCH36	59		X	SURFACE MOUNT	FULLY ENCLOSED & GASKETED INDUSTRIAL WITH EMERGENCY BATTERY PACK MOUNTING CHAINS (PAIR)
X	H.E. WILLIAMS	EXIT/WET/CF-SF-R-WHT-EM-PC2-D-120V	1		X	SURFACE MOUNT ABOVE DOOR	EXIT SIGN FOR WET LOCATIONS

ABBREVIATIONS:

- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- CF CIRCULATION FAN
- AIC AMPERAGE INTERRUPTING CAPACITY
- ATC AUTOMATIC TEMPERATURE CONTROL
- CP CONDENSATE PUMP
- CU CONDENSING UNIT
- CUH CABINET UNIT HEATER
- EF EXHAUST FAN
- GV GRAVITY VENT
- HC HVAC CONTRACTOR
- NEC NATIONAL ELECTRICAL CODE 2014 EDITION
- RTU ROOFTOP UNIT
- UNO UNLESS NOTED OTHERWISE
- UH UNIT HEATER
- UV UNIT VENTILATOR
- WP WEATHER PROOF

ADDITIONAL GENERAL NOTES FOR THE FIRE ALARM SYSTEM MODIFICATIONS

- THE EXISTING FIRE ALARM SYSTEM AT THE WILLIAM DAVIES MIDDLE SCHOOL IS A FULLY ADDRESSABLE NOTIFIER NFS-3030 SYSTEM SERVICED BY CARTER BROTHERS FIRE & LIFE SAFETY (CONTACT TELEPHONE NUMBER: 1-800-873-3392) FOR SYSTEM INFORMATION. THE SCOPE OF THE FIRE ALARM SYSTEM INCLUDES, BUT IS NOT LIMITED TO:
 - REMOVAL OF DUCT MOUNTED SMOKE DETECTORS AT THE LOCATIONS SHOWN ON THE DRAWINGS.
 - PROVIDE CARBON MONOXIDE DETECTORS (WIRED TO THE EXISTING FIRE ALARM SYSTEM) IN THE GYMNASIUM AND AUDITORIUM AT THE LOCATIONS SHOWN ON THE DRAWINGS. THE CARBON MONOXIDE DETECTORS SHALL PROVIDE AN ALARM SIGNAL FROM THE FIRE ALARM SYSTEM WHEN ACTIVATED.
- COORDINATE WITH THE FIRE ALARM SYSTEM MANUFACTURER AND VENDORS TO PROVIDE THE INDICATED TO THE EXISTING FIRE ALARM SYSTEM AND ALL REQUIRED POWER SUPPLIES, WIRING, EQUIPMENT, LABOR, PROGRAMMING, AND MATERIALS FOR A FULLY FUNCTIONAL FIRE ALARM SYSTEM AND INCLUDE ALL COSTS IN THE BID. THE NEW FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING SYSTEM. SEE SYMBOL LEGEND AND SPECIFICATION 284621 FOR ADDITIONAL FIRE ALARM SYSTEM REQUIREMENTS.
- UPON COMPLETION OF THE MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEMS, PROVIDE TESTING AS REQUIRED BY NFPA 72 AND THE PROJECT SPECIFICATIONS.
- PROVIDE SURFACE MOUNTED RACEWAYS PAINTED TO MATCH THE EXISTING WALLS FOR ALL NEW DEVICES INSTALLED IN OCCUPIED SPACES BELOW CEILINGS.
- PROVIDE TEMPORARY SUPPORT AND PROTECTION OF EXISTING CEILING MOUNTED FIRE ALARM SYSTEM SMOKE DETECTORS, HEAT DETECTORS, NOTIFICATION DEVICES, AND WIRING WHERE CEILINGS ARE REMOVED. MAINTAIN THE FIRE ALARM SYSTEM'S CONTINUITY OF SERVICE THROUGHOUT THE ENTIRE PROJECT.

REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.



02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE
DATE: NO. 24GE04470000

FVHD architects planners
Fraytak Veisz Hopkins Duthe P C
1515 Lower Ferry Road - Trenton - New Jersey 08628
40 Williker Ave - Mont Clare - Pennsylvania 19453
F V H D P C . C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C
Project Date
02.15.2019
Checked By
DRH
Drawn By
NMR
Scale
AS NOTED

Drawing Name
ELECTRICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS

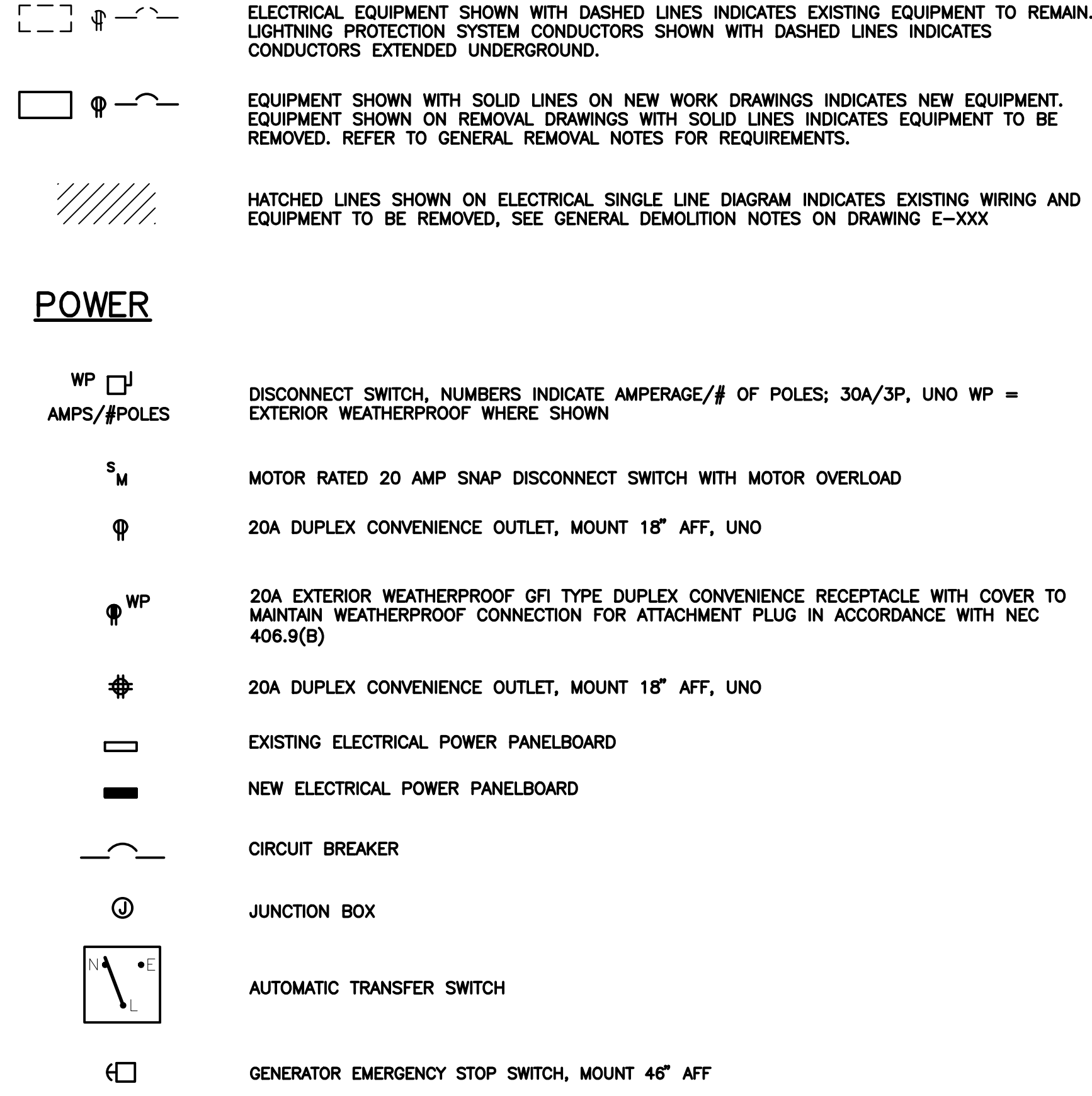
Drawing Number
DAVIES M.S.

Revisions
No. Date Description

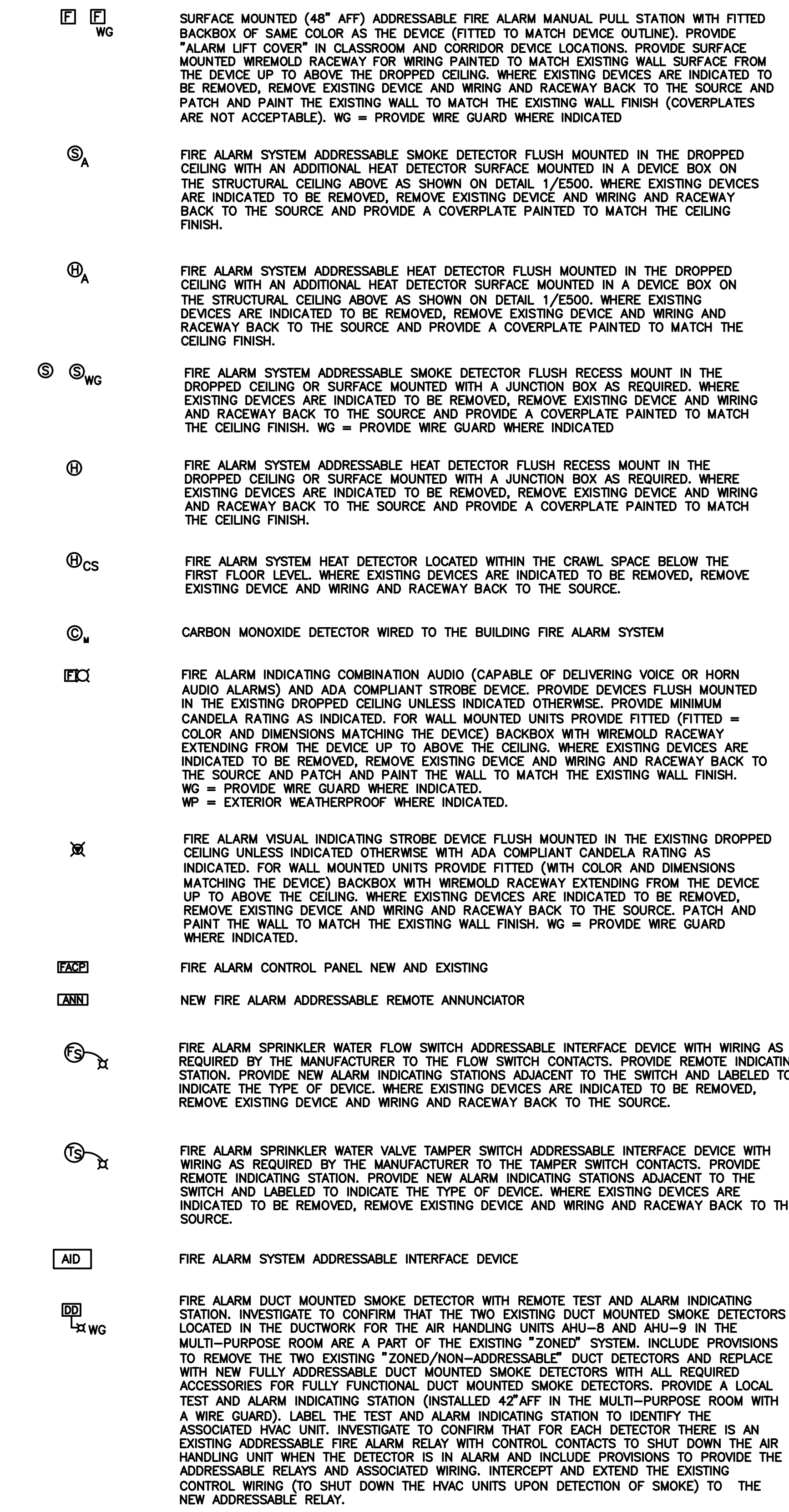
Drawing Number
E001

FILE PATH: C:\projects\2019\02\2025_HESD_William_Davies_Middle_School_Renovations_Drawings\Electrical\Legend and Gen Notes_Davies.mxd
LAST SAVED: 2/15/2019 04:01 PM
PLOTED: 2/15/2019 04:44 PM
PLOTTED BY: TM

ELECTRICAL SYMBOL LEGEND:



FIRE ALARM SYSTEM



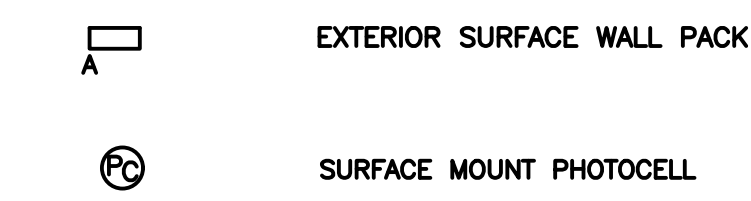
ADDITIONAL GENERAL NOTES FOR THE FIRE ALARM SYSTEM MODIFICATIONS

- 1. THE EXISTING FIRE ALARM SYSTEM AT THE SHANER ELEMENTARY SCHOOL IS A COMBINATION 'ZONED/ NON-ADDRESSABLE SYSTEM AND FULLY ADDRESSABLE SYSTEM WITH A SIMPLEX 4020 MAIN FIRE ALARM CONTROL PANEL...

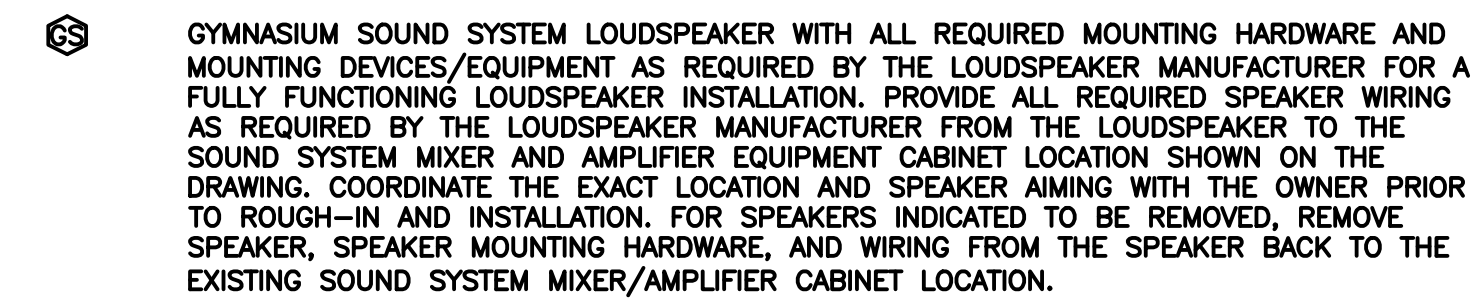
ABBREVIATIONS:

Table listing abbreviations for construction terms: AFF ABOVE FINISHED FLOOR, AHU AIR HANDLING UNIT, AIC AMPERAGE INTERRUPTING CAPACITY, etc.

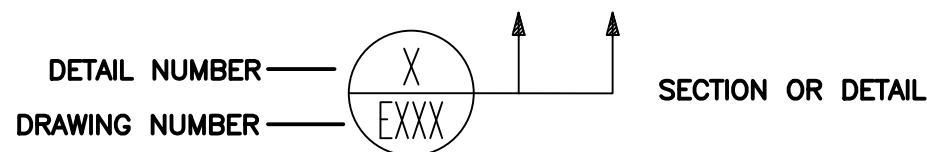
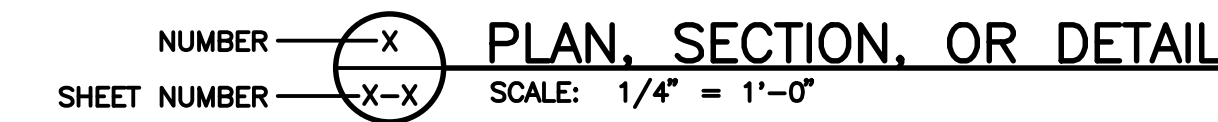
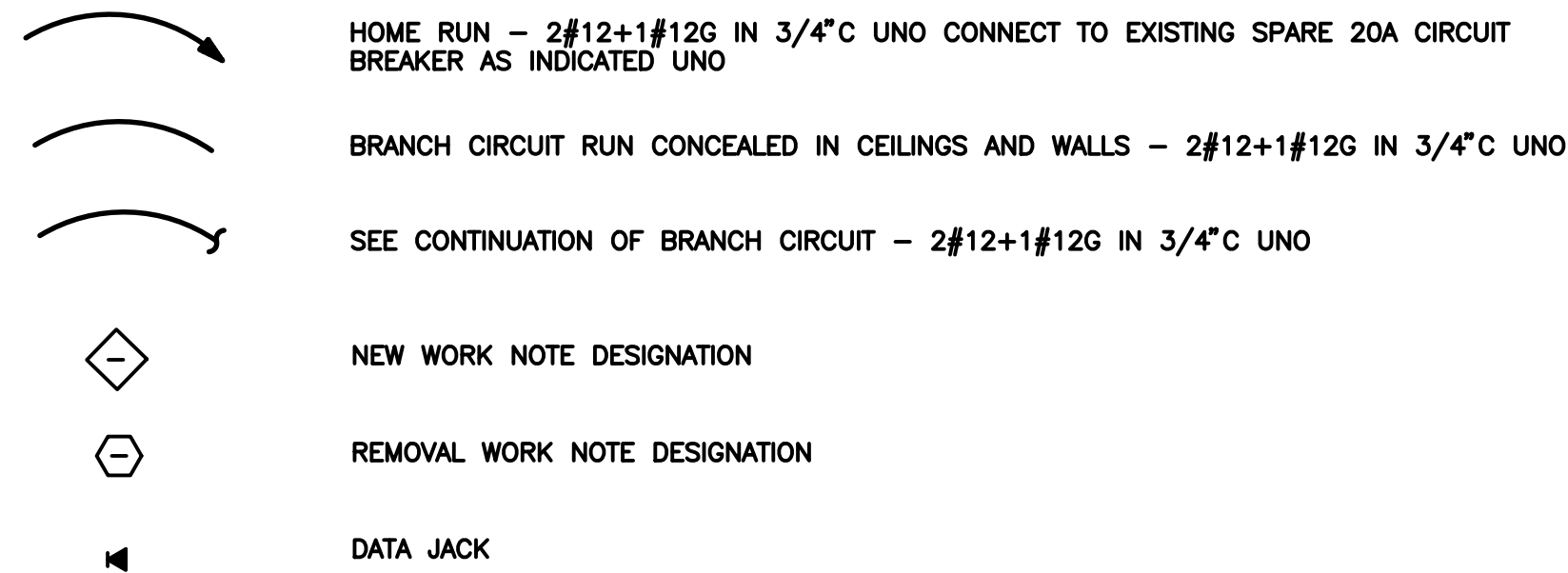
LIGHTING



SOUND SYSTEM EQUIPMENT



MISCELLANEOUS



GENERAL ELECTRICAL NOTES

(GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS)

- 1. COORDINATE THE LOCATIONS OF EQUIPMENT AND ROUTING OF ELECTRICAL WIRING WITH THE TRADE DRAWINGS AND INSTALLING CONTRACTOR FOR THE MECHANICAL AND PLUMBING EQUIPMENT PRIOR TO INSTALLATION.

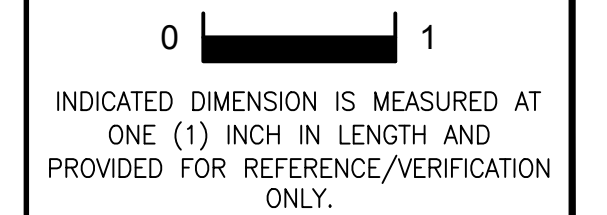
LIGHTING FIXTURE SCHEDULE

Lighting fixture schedule table with columns: TYPE, MANUFACTURER, MODEL #, WATT, FIXTURE TYPE, MOUNTING, REMARKS. Row 1: A, H.E. WILLIAMS, WVP-H-L60-TFT-COLOR SPECIFIED BY ARCHITECT-GGL-DIM-UNIV, 68, SURFACE, EXTERIOR SURFACE WALL PACK COLOR TO BE SPECIFIED BY ARCHITECT.

GENERAL ELECTRICAL REMOVAL NOTES:

- 1. UNLESS NOTED OTHERWISE, DEVICES INDICATED WITH SOLID LINES ON THE REMOVAL DRAWINGS INDICATES A DEVICE THAT IS REQUIRED TO BE DISCONNECTED AND REMOVED...

REFERENCE DIMENSION



Gillan & Hartmann, Inc. logo and contact information, including address, phone numbers, and website.

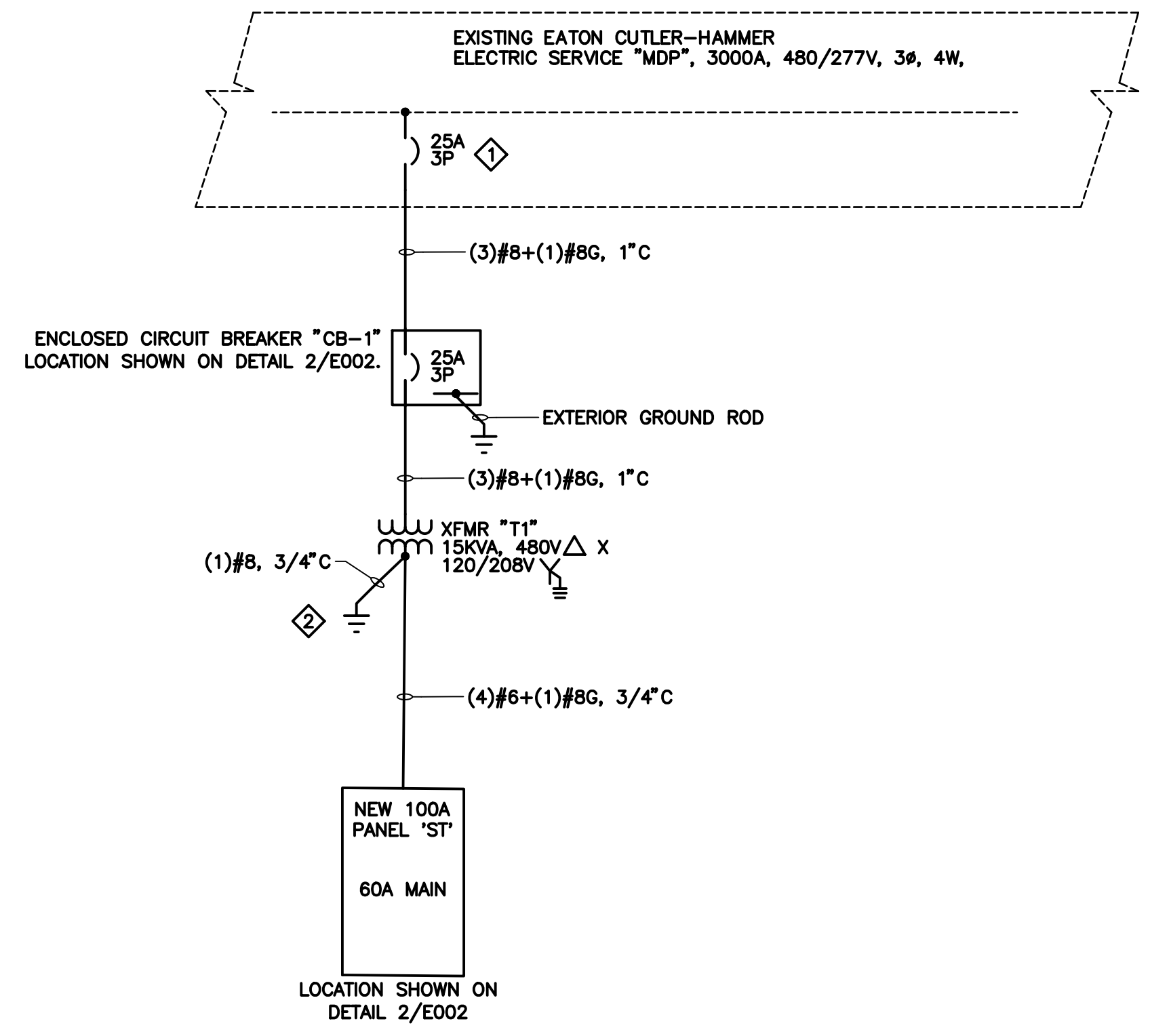
02/15/2019 ISSUED FOR BID

Project information sidebar including project name (ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL), project location (5801 3rd ST, MAYS LANDING, NJ 08330), and project number (4937B).

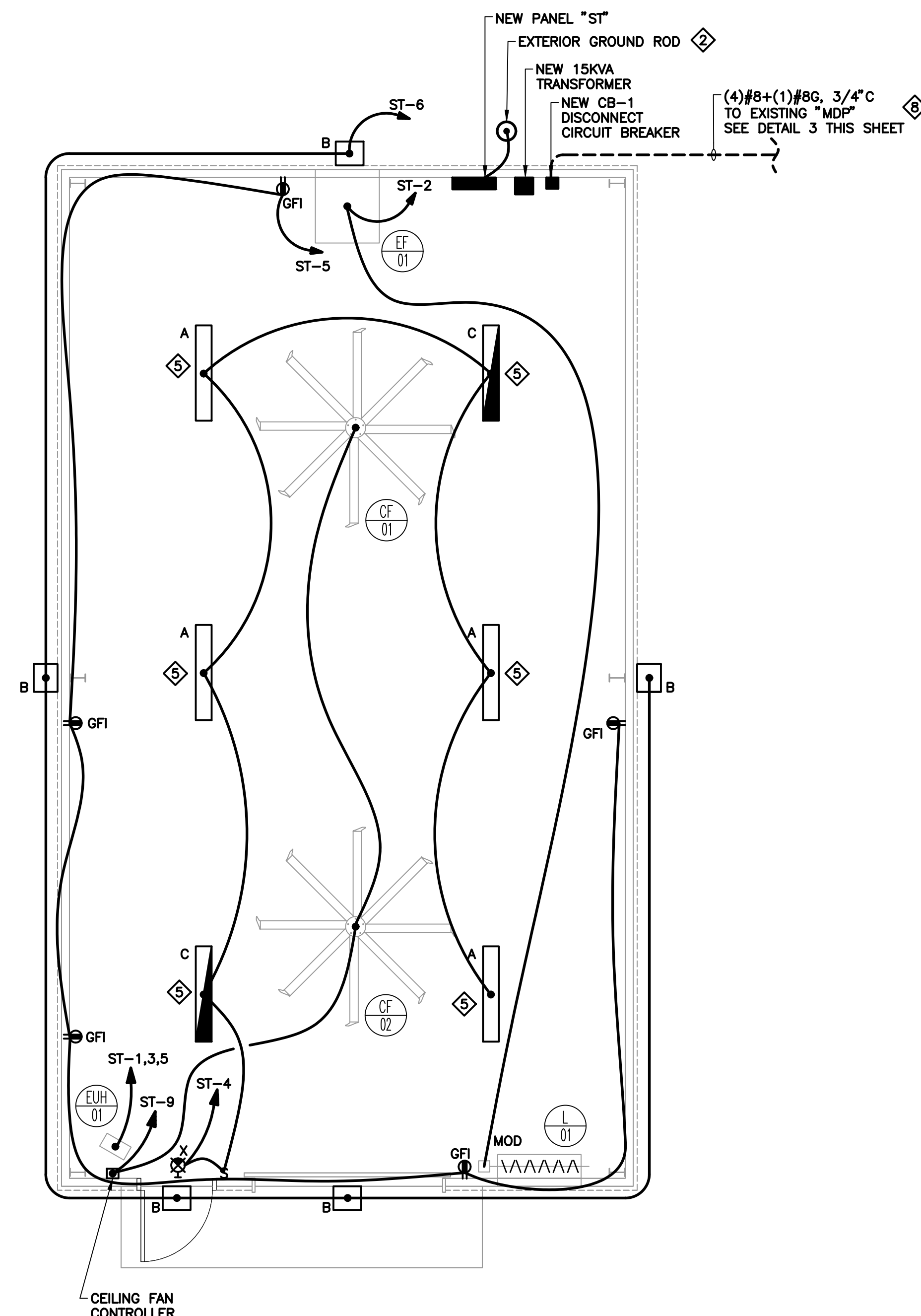
Project location and drawing information, including drawing title (ELECTRICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS) and drawing number (E001).

Revisions table and drawing details, including drawing number (E001) and drawing title (ELECTRICAL GENERAL NOTES, LEGENDS & ABBREVIATIONS).

Vertical text on the right edge containing project details and drawing information, including project name, location, and drawing number.



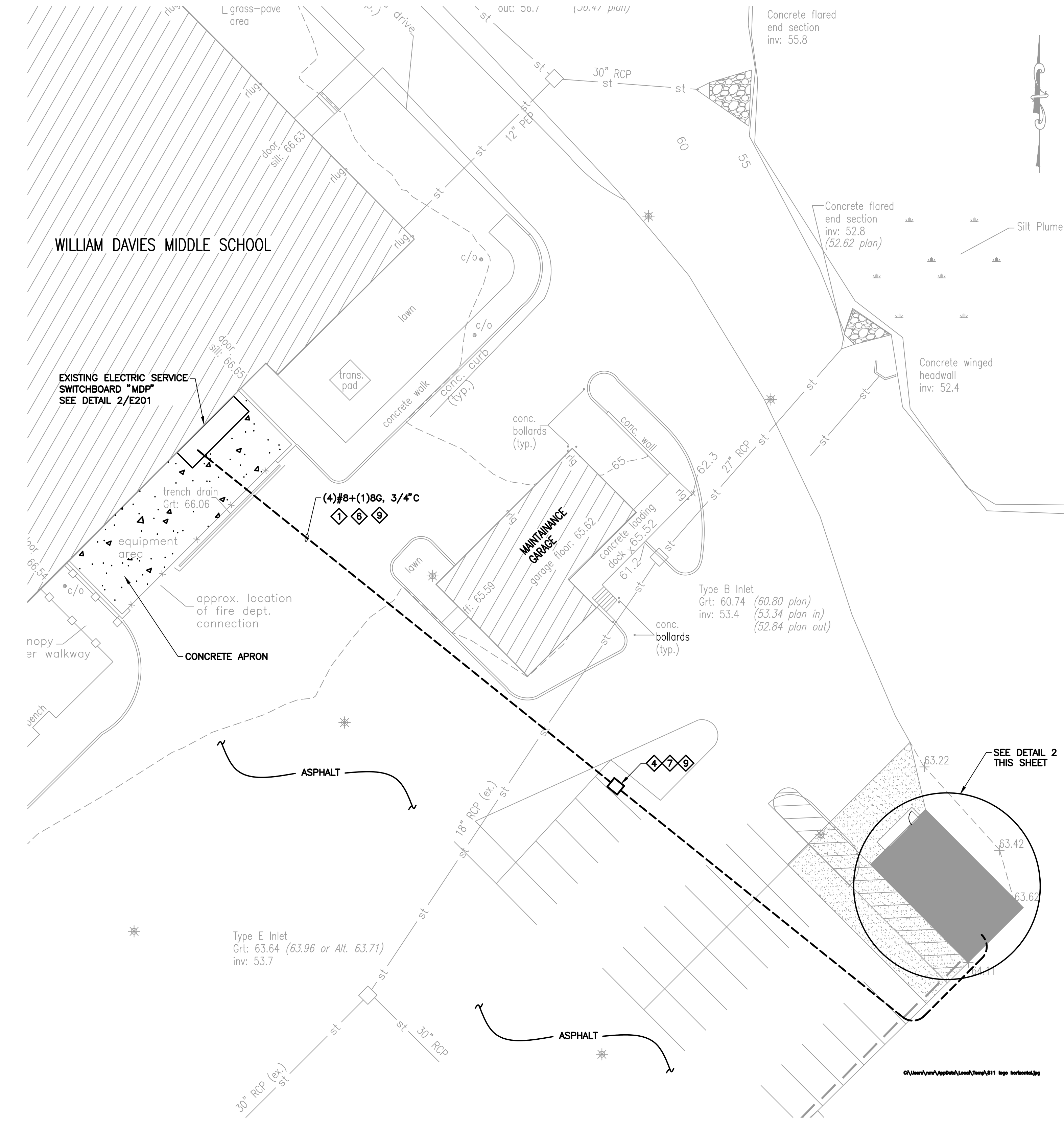
1 SINGLE LINE DIAGRAM
SCALE: NONE



2 NEW STORAGE BUILDING
SCALE: 1/4" = 1'-0"

NEW PANELBOARD										GENERAL PANEL DATA									
										ST									
										VOLT: 120/208V, 3PH, 3W									
										BUS: 100A									
										MOUNT: SURFACE									
										AIC: 10KAIC									
										CONDUIT: 3/4" #10, 1" #8, 1 1/2" #4									
										WIRE: #12, #10, #8, #6									
										CIRCUIT BREAKERS: 25A 3P, 20A 1P									
1	EUH-1 UNIT HEATER	3/4"	#10	#8	3	3.3	45	3	3.6	4.3	2	15	0.3	3/4"	#12	#12	2	EF-1 EXHAUST FAN	1
1	GFI RECEPTACLES	3/4"	#12	#12	2	0.5	20	7	0.5	4.3	6	20	1.0	3/4"	#12	#12	2	ROOM LIGHTS	1
1	CF-1, CF-2 CEILING FANS	3/4"	#12	#12	2	1.0	15	9	1.0	10	20						OUTDOOR LIGHTS W/PHOTOCELL	1	
2	SPARE						20	11		12	20						SPARE	2	
2	SPARE						20	13	0.0	8	20						SPARE	2	
2	SPARE						20	15	0.0	16							SPARE	2	
2	SPARE						20	17	0.0	18							SPARE	2	
	SPACE						19		0.0	20							SPACE		
	SPACE						21		0.0	22							SPACE		
	SPACE						23		0.0	24							SPACE		
LOCATION: NEW EXTERIOR STORAGE BUILDING										4.2	5.3	4.3	PHASE KVA						
										13.8			TOTAL KVA						

NOTES:
1. PROVIDE NEW WIRING AND PROVIDE NEW CIRCUIT BREAKER
2. PROVIDE NEW 20A CIRCUIT BREAKER

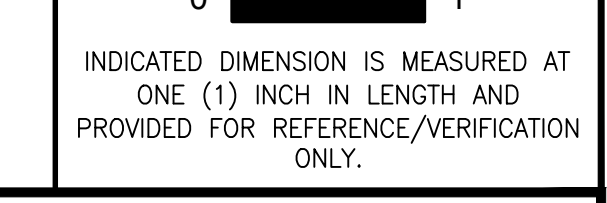


3 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

NEW WORK NOTES:

- 1 PROVIDE A 25 AMP, 3-POLE CIRCUIT BREAKER IN THE EXISTING "MDP" TO FEED PANEL "ST". PROVIDE (4)#8+(1)#6G FROM THE BREAKER IN "MDP" IN A MINIMUM 1" SCHEDULE 40 PVC CONDUIT AT A MINIMUM DEPTH OF 30" BELOW FINISHED GRADE, ENCASED IN A MINIMUM OF 4" OF CONCRETE ON ALL SIDES, WITH A YELLOW PLASTIC WARNING TAPE INSTALLED ABOVE THE CONDUIT AT A DEPTH OF 12" BELOW FINISHED GRADE. TRANSITION TO ELECTRICAL METALLIC TUBING ABOVE FINISHED GRADE TO FEED PANEL "ST". PROVIDE ALL REQUIRED TRENCHING, BACKFILLING, CUTTING AND PATCHING OF MACADAM AND CONCRETE SURFACES.
- 2 PROVIDE GROUND ROD BURIED IN THE EARTH. PROVIDE (1)#8 GREEN INSULATED GROUNDING ELECTRODE CONDUCTOR BONDED TO THE PANEL GROUND BUS AND TO THE GROUND ROD.
- 3 PROVIDE (2)#12(1)#12G3/4" CONDUIT FROM THE PANEL BREAKER TO THE THERMOSTAT (THERMOSTAT CONTROLLING THE EXHAUST FAN) AND EXTENDED TO THE 120V MOTOR OPERATED DAMPER TO OPEN THE DAMPER WHEN THE EXHAUST FAN IS ON.
- 4 AASHTO-HS-20 4'x4'x4" BOTTOMLESS PRECAST CONCRETE HEAVY TRAFFIC RATED FULL BOX MOUNTED LEVEL ON 12" GRAVEL, FLUSH IN GRADE WITH CAST IRON I.D. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF THE MACADAM PARKING LOT AS REQUIRED.
- 5 CHAIN HANG THE FIXTURES 12 FEET ABOVE FINISHED FLOOR.
- 6 CUT AND PATCH BITUMINOUS/ASPHALT WALKWAY AND THE CONCRETE PAD AREAS AS REQUIRED TO RUN FEEDER, SEE 4/E500 FOR BITUMINOUS/ASPHALT PATCHING DETAILS.
- 7 NEW UNDERGROUND NORMAL POWER ELECTRICAL FEEDER.
- 8 NEW NORMAL POWER ELECTRICAL FEEDER IN CONDUIT UP WALL. REFER TO DETAIL 2/E500.
- 9 CALL AND COORDINATE WITH "NEW JERSEY ONE CALL" PHONE NUMBER 811 AND PERFORM ADDITIONAL UNDERGROUND LOCATING ALONG THE PATH OF THE NEW UNDERGROUND FEEDER TO LOCATE EXISTING UNDERGROUND UTILITIES OWNED BY THE UTILITY COMPANY AND THE OWNER.

REFERENCE DIMENSION



INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0001 FAX: 610-935-7520
215-238-9010 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghmail@gillan-hartmann.com
Cert. of Auth #24027932400 G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

GFVH D architects planners
Fraytak Veisz Hopkins Dutlie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453
F.V.H.D.P.C. C.O.M

JOHN J. VEISZ, AIA, CIBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTLIE, JR., AIA, PP

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number: 4937C
Project Date: 02.15.2019
Checked By: DRH
Drawn By: NMR
Scale: AS NOTED

Drawing Name
ELECTRICAL SINGLE LINE DIAGRAM AND SITE PLAN

Drawing Number
DAVIES M.S.

Revisions	No.	Date	Description

Drawing Number
E002

FILE PATH: C:\projects\2018\02152019_HTSO_William_Davies_MS_Renovations_Drawings\Electrical\Legend and Gen Notes_Davies.ms
LAST SAVE: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM

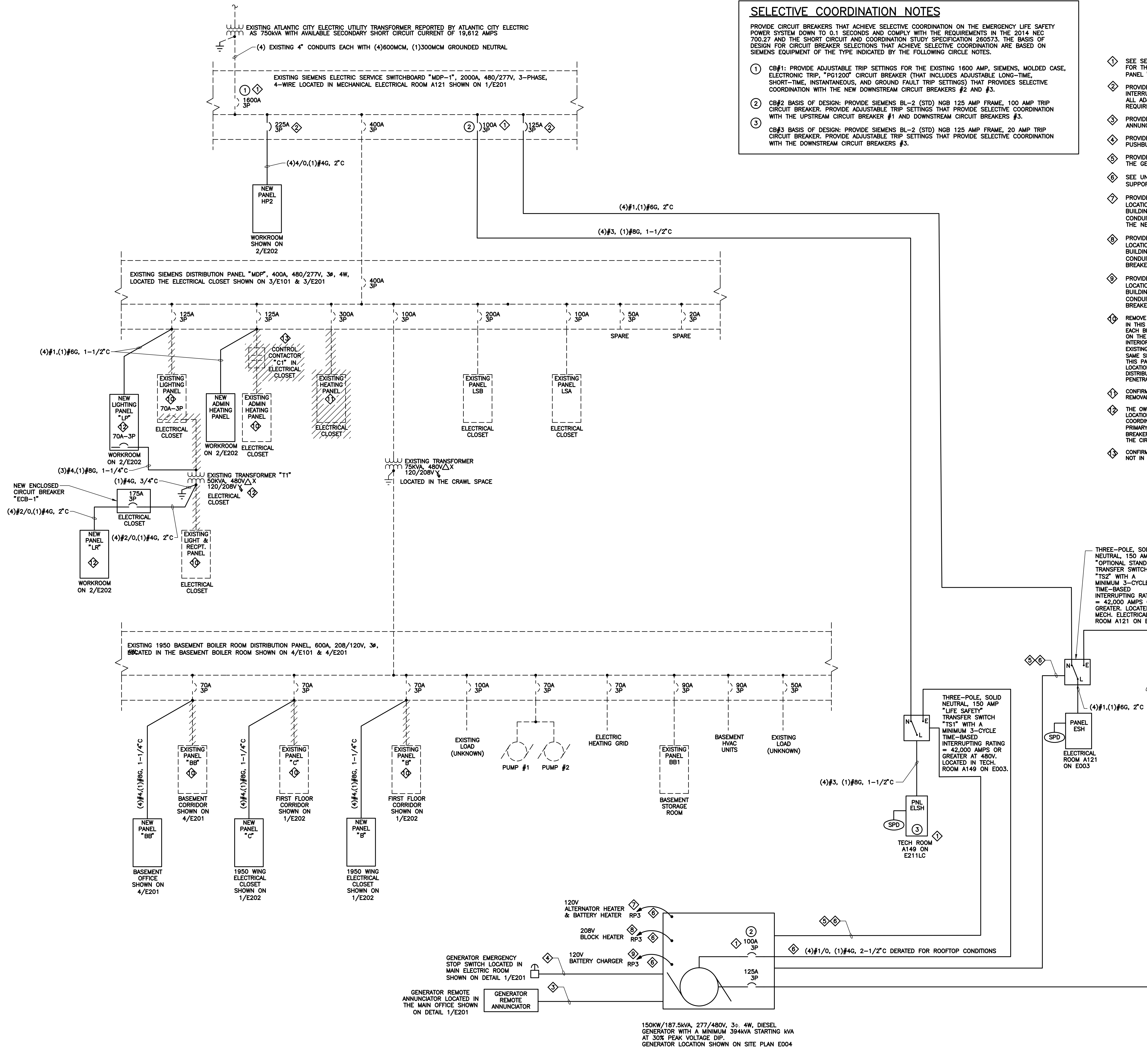
SELECTIVE COORDINATION NOTES

PROVIDE CIRCUIT BREAKERS THAT ACHIEVE SELECTIVE COORDINATION ON THE EMERGENCY LIFE SAFETY POWER SYSTEM DOWN TO 0.1 SECONDS AND COMPLY WITH THE REQUIREMENTS IN THE 2014 NEC 700.27 AND THE SHORT CIRCUIT AND COORDINATION STUDY SPECIFICATION 260573. THE BASIS OF DESIGN FOR CIRCUIT BREAKER SELECTIONS THAT ACHIEVE SELECTIVE COORDINATION ARE BASED ON SIEMENS EQUIPMENT OF THE TYPE INDICATED BY THE FOLLOWING CIRCLE NOTES.

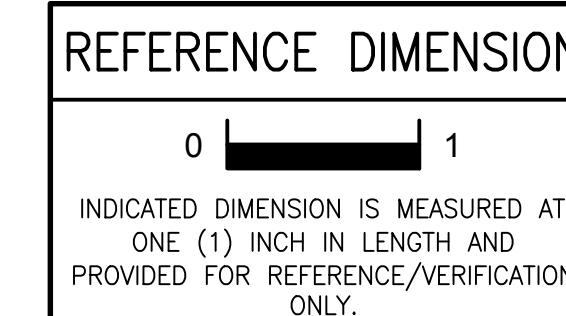
- ① CB#1: PROVIDE ADJUSTABLE TRIP SETTINGS FOR THE EXISTING 1600 AMP, SIEMENS, MOLDED CASE, ELECTRONIC TRIP, "P1200" CIRCUIT BREAKER (THAT INCLUDES ADJUSTABLE LONG-TIME, SHORT-TIME, INSTANTANEOUS, AND GROUND FAULT TRIP SETTINGS) THAT PROVIDES SELECTIVE COORDINATION WITH THE NEW DOWNSTREAM CIRCUIT BREAKERS #2 AND #3.
- ② CB#2 BASIS OF DESIGN: PROVIDE SIEMENS BL-2 (STD) NGB 125 AMP FRAME, 100 AMP TRIP CIRCUIT BREAKER. PROVIDE ADJUSTABLE TRIP SETTINGS THAT PROVIDE SELECTIVE COORDINATION WITH THE UPSTREAM CIRCUIT BREAKER #1 AND DOWNSTREAM CIRCUIT BREAKERS #3.
- ③ CB#3 BASIS OF DESIGN: PROVIDE SIEMENS BL-2 (STD) NGB 125 AMP FRAME, 20 AMP TRIP CIRCUIT BREAKER. PROVIDE ADJUSTABLE TRIP SETTINGS THAT PROVIDE SELECTIVE COORDINATION WITH THE DOWNSTREAM CIRCUIT BREAKERS #3.

NEW WORK SHEET NOTES:

- ◇ SEE SELECTIVE COORDINATION NOTES THIS SHEET. PROVIDE ADJUSTABLE TRIP SETTINGS FOR THIS ADJUSTABLE TRIP CIRCUIT BREAKER THAT FEEDS THE LIFE SAFETY POWER PANEL "EM" TO PROVIDE SELECTIVE COORDINATION DOWN TO 0.1 SECONDS.
- ◇ PROVIDE NEW CIRCUIT BREAKER IN THE EXISTING SWITCHBOARD THAT MAINTAINS THE INTERRUPTING RATING OF THE SWITCHBOARD. PROVIDE ADJUSTABLE TRIP SETTINGS FOR ALL ADJUSTABLE TRIP CIRCUIT BREAKERS THAT PROVIDE OPTIMAL COORDINATION AS REQUIRED IN SPECIFICATION.
- ◇ PROVIDE 600V INSULATED WIRING IN CONDUIT FOR THE GENERATOR REMOTE ANNUNCIATOR AS REQUIRED BY THE GENERATOR MANUFACTURER.
- ◇ PROVIDE 600V INSULATED WIRING IN CONDUIT FOR THE GENERATOR EMERGENCY STOP PUSHBUTTON AS REQUIRED BY THE GENERATOR MANUFACTURER.
- ◇ PROVIDE WIRING IN CONDUIT FOR THE GENERATOR STARTING CIRCUIT AS REQUIRED BY THE GENERATOR MANUFACTURER.
- ◇ SEE UNDERGROUND DIRECT BURIED CONDUIT DETAIL 3/E004 AND ROOF CONDUIT SUPPORT DETAIL 4/E004.
- ◇ PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL "RP3" (PANEL LOCATION SHOWN ON 1/E201). PROVIDE (2)#10,(1)#10G, (3/4)" CONDUIT INSIDE THE BUILDING AND TRANSITION TO THE ROOFTOP CONDUIT AND UNDERGROUND DUCTBANK CONDUIT AS SHOWN) FROM THE GENERATOR ALTERNATOR HEATER/BATTERY HEATER TO THE NEW CIRCUIT BREAKER.
- ◇ PROVIDE A 20 AMP TWO POLE CIRCUIT BREAKER IN EXISTING PANEL "RP3" (PANEL LOCATION SHOWN ON 1/E201). PROVIDE (2)#10,(1)#10G, (3/4)" CONDUIT INSIDE THE BUILDING AND TRANSITION TO THE ROOFTOP CONDUIT AND UNDERGROUND DUCTBANK CONDUIT AS SHOWN) FROM THE GENERATOR BATTERY CHARGER TO THE NEW CIRCUIT BREAKER.
- ◇ REMOVE THE EXISTING FEEDER TO THIS PANEL. MAINTAIN THE EXISTING BRANCH CIRCUIT WIRING IN THIS PANEL. TEST AND CONFIRM THE USAGE (OUTLET TYPE AND OUTLET LOCATIONS) FOR EACH BRANCH CIRCUIT AND PROVIDE SPECIFIC INFORMATION OF OUTLET TYPE AND LOCATIONS ON THE NEW REPLACEMENT PANELBOARD SCHEDULE. REMOVE THE EXISTING PANELBOARD INTERIOR BUS AND CIRCUIT BREAKERS AND MAINTAIN THE EXISTING BACKBOX. UTILIZE THE EXISTING BACKBOX AS A JUNCTION BOX AND EXTEND EACH BRANCH CIRCUIT (PROVIDING THE SAME SIZE PHASE AND NEUTRAL WIRING AND AN EQUIPMENT GROUNDING CONDUCTOR) FROM THIS PANEL TO THE NEW REPLACEMENT CIRCUIT BREAKERS IN THE NEW PANELBOARD AT THE LOCATION SHOWN ON THE DRAWINGS. PROVIDE THE NEW FEEDER FROM THE EXISTING DISTRIBUTION PANEL BREAKER TO THE NEW PANEL WITH ALL REQUIRED WALL AND FLOOR PENETRATIONS.
- ◇ CONFIRM THAT ALL EXISTING LOADS HAVE BEEN REMOVED FROM THIS PANEL DURING THE REMOVAL PHASE. REMOVE THE EXISTING PANEL AND FEEDER AND BRANCH CIRCUIT WIRING.
- ◇ THE OWNER WILL REPLACE THIS TRANSFORMER DURING THIS PROJECT. COORDINATE THE EXACT LOCATION OF THE NEW TRANSFORMER WITH THE OWNER PRIOR TO ROUGHING IN ANY WORK. COORDINATE THE KVA SIZE OF THE TRANSFORMER AND THE REQUIRED AMPACITIES OF THE PRIMARY CIRCUIT BREAKER (PRIMARY BREAKER IN NEW PANEL "LP") AND SECONDARY CIRCUIT BREAKER (SECONDARY CIRCUIT BREAKER IN PANEL "LP") WITH THE OWNER PRIOR TO ORDERING THE CIRCUIT BREAKERS.
- ◇ CONFIRM PRIOR COORDINATION WITH THE OWNER THAT THIS EXISTING CONTROL CONTACTOR IS NOT IN USE AND IS NOT REQUIRED TO BE REUSED TO FEED THE REPLACEMENT PANEL.



1 SINGLE LINE DIAGRAM - SHANER ELEMENTARY SCHOOL
E002 SCALE: NONE



Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-204

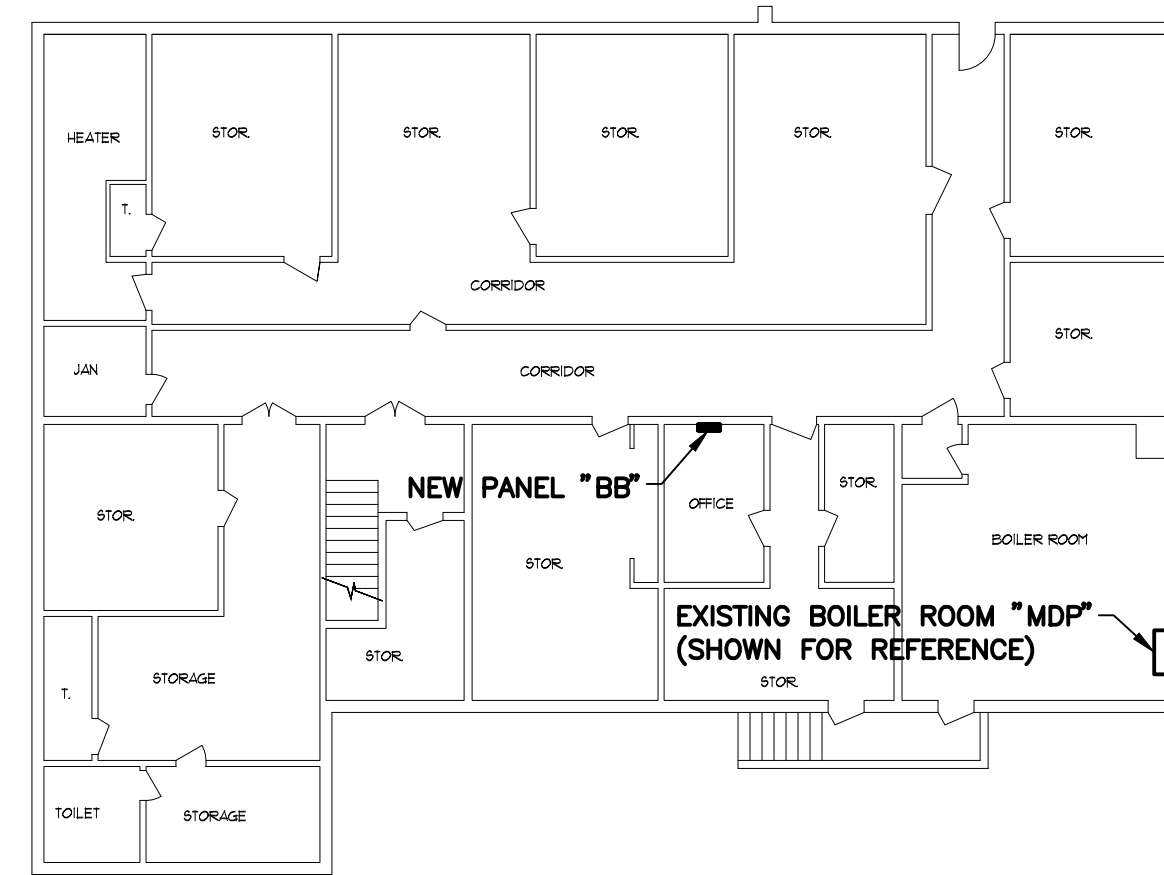
02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

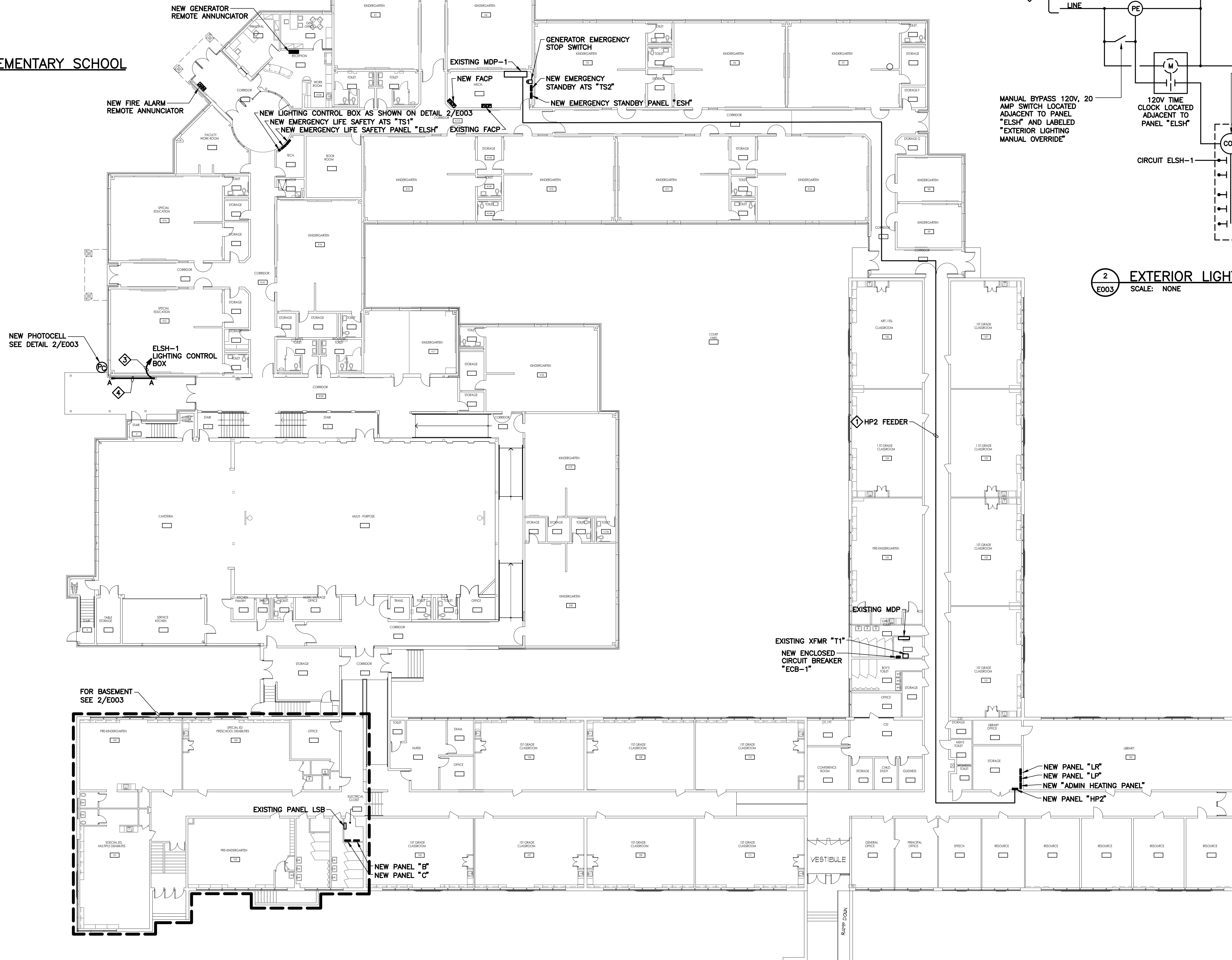
FVHHD architects planners
Fraytak Velisz Hopkins Dutrie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
140 Wiltshire Ave - Mount Clear - Pennsylvania 17453
F V H D P C . C O M

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: DRH
Drawn By: JTM
Scale: AS NOTED
Drawing Name: ELECTRICAL SINGLE LINE DIAGRAM
SHANER E.S.
Revisions: No. Date Description
Drawing Number: E002

FILE PATH: Z:\Projects\2018\201804_Hsh_Joseph_Shaner_Elementary_School\Drawings\Electrical\Legend and Dim Notes_Shaner.dwg
JOB SAVED: 2019/02/15 04:57 PM PLOTTED: 2019/02/15 05:24 PM PLOTTED BY: TML



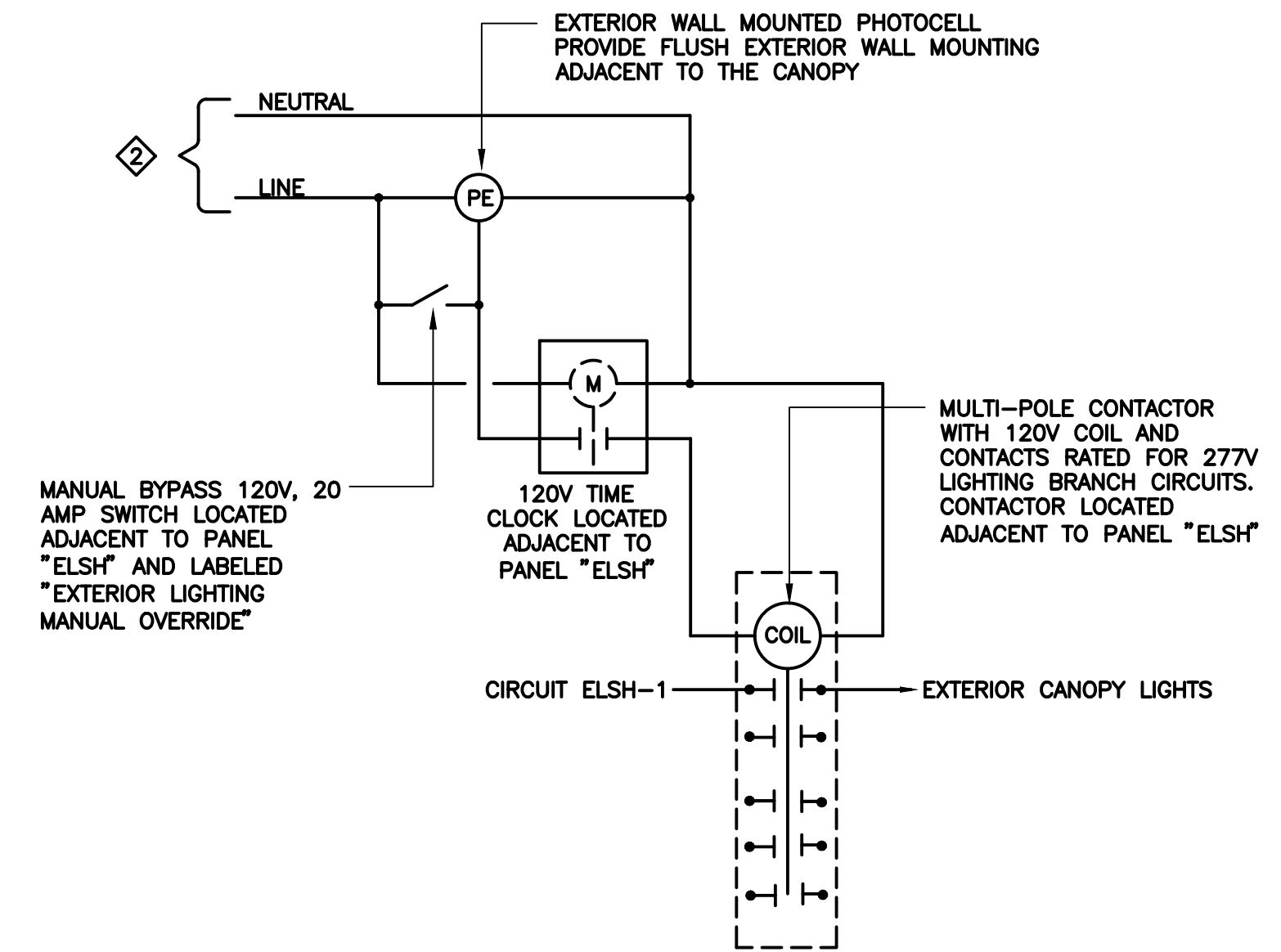
2 BASEMENT LOCATION PLAN – SHANER ELEMENTARY SCHOOL
E003 SCALE: NONE



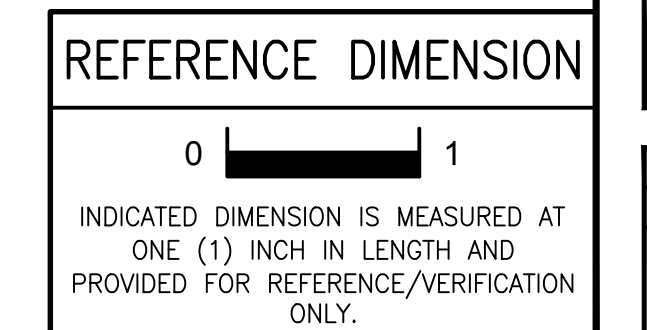
1 LOCATION PLAN – SHANER ELEMENTARY SCHOOL
E003 SCALE: 1/16" = 1'-0"

NEW WORK SHEET NOTES:

- ◇ EXTEND THE CONDUIT CONCEALED ABOVE THE DROPPED CEILINGS. PROVIDE PULL BOXES AS REQUIRED. REFER TO ARCHITECTURAL DRAWING FOR LOCATIONS OF FIRE RATED WALLS REQUIRING FIRE RATED PENETRATIONS. REFER TO 7/E500 FOR FIRE RATED WALL PENETRATION DETAILS.
- ◇ PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL "RP3" (PANEL LOCATION SHOWN ON 1/E201). PROVIDE (2) #10,(1) #10G, 3/4" CONDUIT FROM THE LIGHTING CONTROLS TO THE NEW CIRCUIT BREAKER.
- ◇ PROVIDE WIRING AS SHOWN ON THE "ELSH" PANEL SCHEDULE FOR CIRCUIT "ELSH-1" AND WIRE THROUGH THE LIGHTING CONTROLS AS SHOWN ON DETAIL 2/E003.
- ◇ PROVIDE WEATHERPROOF SURFACE MOUNTED RACEWAY, PAINTED TO MATCH EXTERIOR FINISH.



2 EXTERIOR LIGHTING CONTROL DIAGRAM
E003 SCALE: NONE



Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghm@gillan-hartmann.com
 G&H Project No. 2018-204

02/15/2019
 ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

GFVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
 JOHN J. VEISZ, AIA, CSBA
 WILLIAM D. HOPKINS III, AIA, LEED AP
 GEORGE R. DUTRIE, JR., AIA, PP

Project Name
 ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
 HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
 5801 3rd ST, MAYS LANDING, NJ 08330

Project Number	4937B
Project Date	02.15.2019
Checked By	DRH
Drawn By	JTM
Scale	AS NOTED

Drawing Name
 ELECTRICAL LOCATION PLAN AT GRADE

SHANER E.S.

Revisions		
No.	Date	Description

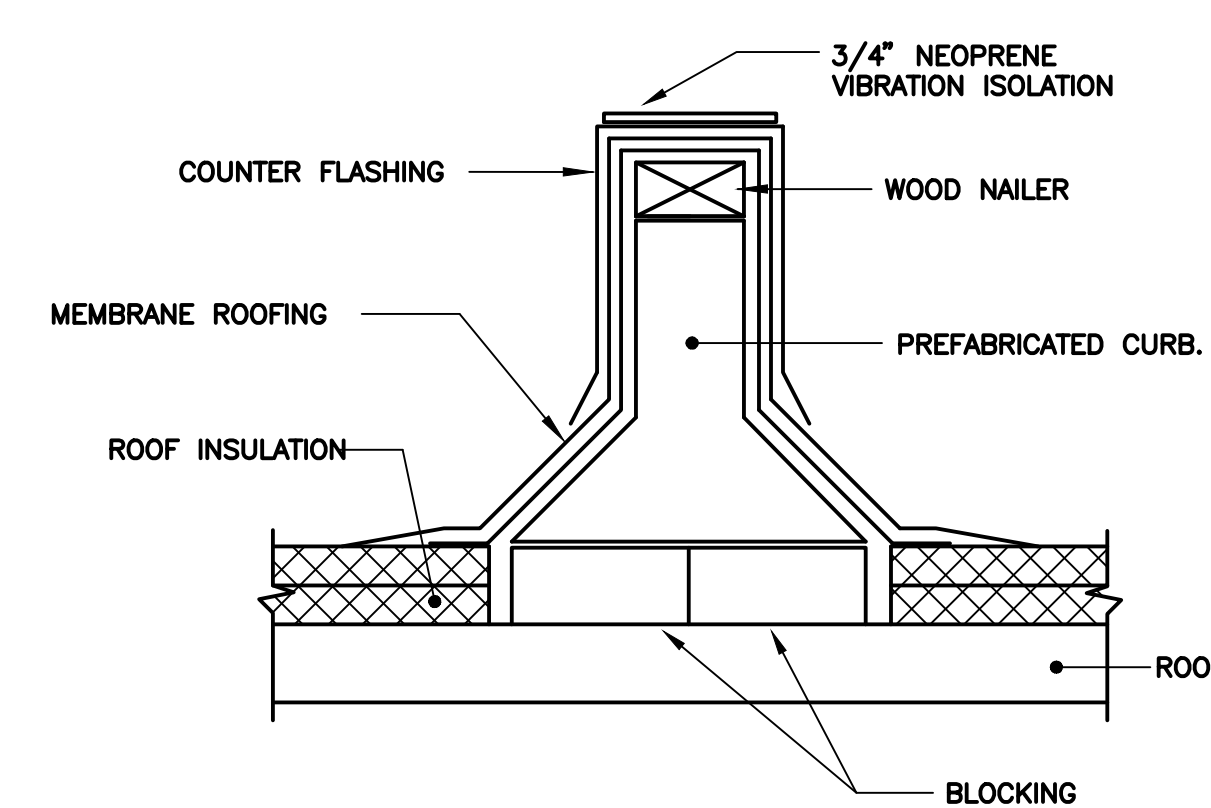
Drawing Number
E003

FILE PATH: E:\Projects\2018\201804 - Mt. Joseph, Shaner ES renovations\Drawings\Electrical\Legend and Dim Notes\Shaner.dwg
 USER: SAG: 2019.02.15 04:57 PM PLOTTED: 2019.02.15 05:24 PM PLOTTED BY: TML

Revisions		
No.	Date	Description

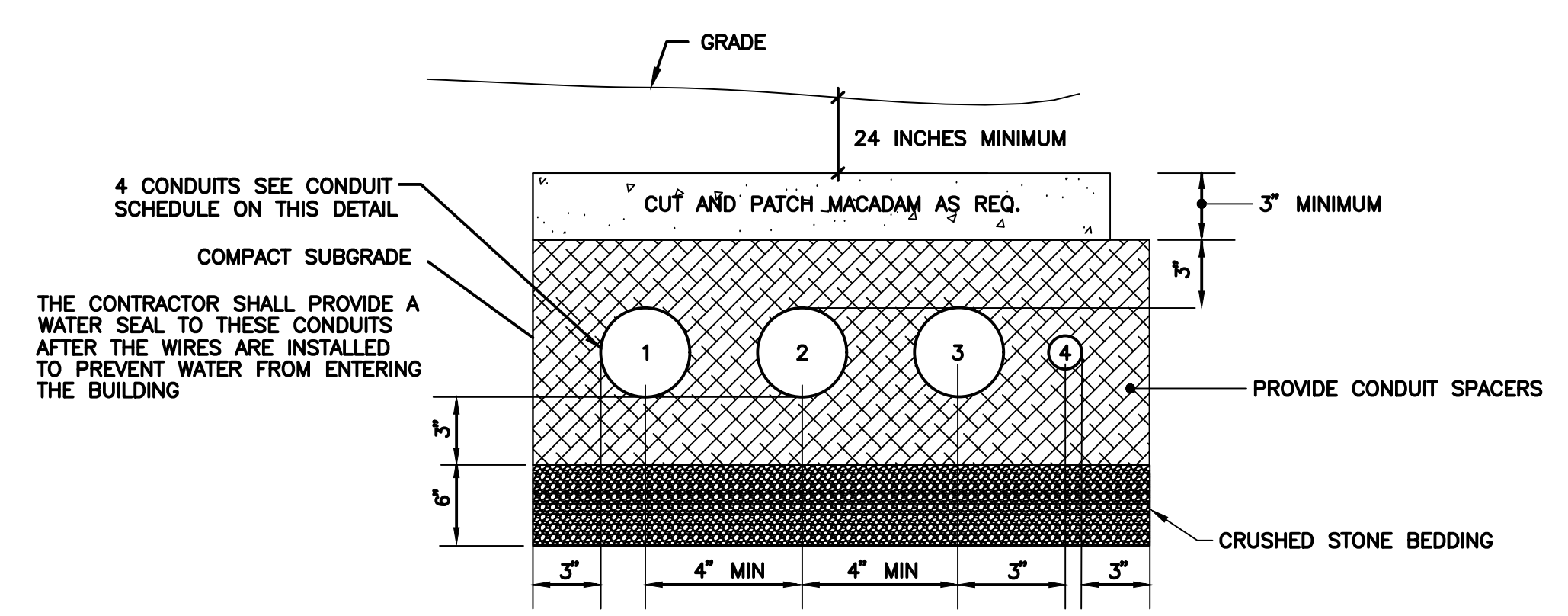
SHEET NOTES:

1. PROVIDE ALL REQUIRED EXCAVATION, BACKFILLING, SEDIMENTATION CONTROL, LAWN RESTORATION, MACADAM CUTTING, AND MACADAM PATCHING FOR THE WORK SHOWN ON THIS DRAWING ACCORDING TO THE REQUIREMENTS IN THE DIVISION 2 SPECIFICATIONS.
2. PROVIDE ALL REQUIRED EQUIPMENT, LABOR, AND MATERIALS TO LOCATE EXISTING UNDERGROUND SITE UTILITIES AND OBSTRUCTIONS IN THE FINAL WORK AREA. COORDINATE THE REQUIRED DEPTH AND ROUTE OF THE NEW UNDERGROUND CONDUITS TO COORDINATE WITH EXISTING SITE UTILITIES.
3. COORDINATE THE EXACT ROUTE OF THE INTERMEDIATE METAL CONDUIT ABOVE GRADE WITH THE ARCHITECT PRIOR TO THE START OF ANY WORK.
4. PROVIDE ROOFTOP CONDUIT SUPPORT AS REQUIRED ON DETAIL 4/E004. COORDINATE INSTALLATION WITH THE ARCHITECT PRIOR TO INSTALLATION. WHERE CONDUIT IS EXTENDED VERTICALLY UP AND DOWN THE SIDE OF THE BUILDING, PAINT THE CONDUIT WITH A COLOR AS SELECTED BY THE ARCHITECT.
5. PROVIDE PULLBOX (SIZED AS REQUIRED BY THE NEC) MOUNTED ON JUNCTION BOX SUPPORT AS SHOWN ON DETAIL 2/E004. PROVIDE DIVIDER TO SEPARATE THE LIFE SAFETY FROM THE STANDBY WIRING.
6. PROVIDE PIPE CURB AS SHOWN ON DETAIL 2/E500.
7. PROVIDE SCHEDULE 40 PVC UNDERGROUND CONDUIT. REFER TO DUCTBANK DETAIL 3/E004.
8. PROVIDE FENCE AND GATES ACCORDING TO THE REQUIREMENTS IN THE ARCHITECTURAL SPECIFICATIONS AND DETAIL 7/E500.
9. PROVIDE CONCRETE PAD FOR GENERATOR AS SHOWN ON 4/E500.
10. TRANSITION FROM THE SCHEDULE 40 UNDERGROUND CONDUIT AND PROVIDE INTERMEDIATE METAL CONDUIT FROM BELOW GRADE, UP THE WALL AND INTO THE PULL BOX. PROVIDE RAIN-TIGHT THREADED COUPLINGS AND EXPANSION JOINTS AS REQUIRED. PAINT THE CONDUIT TO MATCH THE EXTERIOR WALL FINISH.
11. PROVIDE INTERMEDIATE METAL CONDUIT WITH RAIN-TIGHT THREADED COUPLINGS AND EXPANSION JOINTS AS REQUIRED.
12. PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL "RP-3" (PANEL LOCATION SHOWN ON 1/E201). PROVIDE (2) #10, (1) #10G, (3/4") CONDUIT INSIDE THE BUILDING AND TRANSITION TO THE ROOFTOP CONDUIT AND UNDERGROUND DUCTBANK CONDUIT AS SHOWN) FROM THE GENERAL PURPOSE RECEPTACLE TO THE NEW CIRCUIT BREAKER.



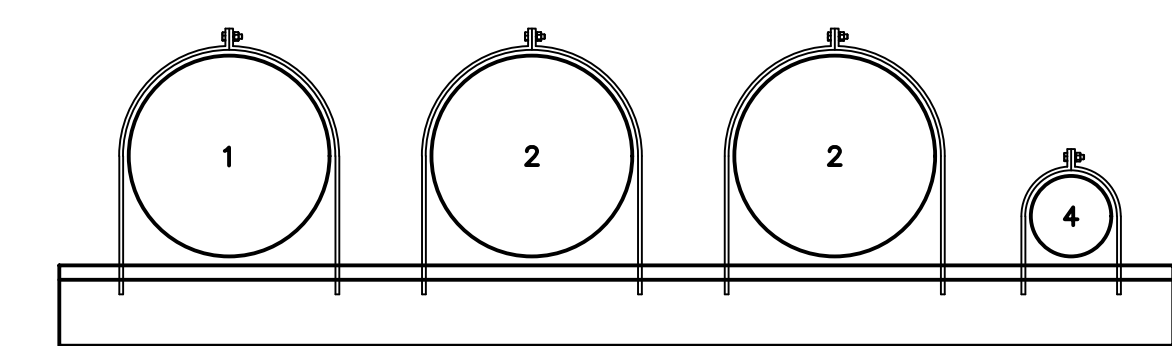
- NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF FLASHING DETAILS.
 2. PROVIDE ALL NECESSARY WOOD BLOCKING FOR INSTALLATION AND COORDINATION WITH BUILDING STRUCTURE. PROVIDE BASE FLASHING AND MAKE FINAL CONNECTIONS INTO ROOF ASSEMBLY FOR A COMPLETE WEATHER TIGHT SEAL.

2
 E004
DETAIL - JUNCTION BOX SUPPORT & EQUIPMENT CURB FLASHING
 NO SCALE

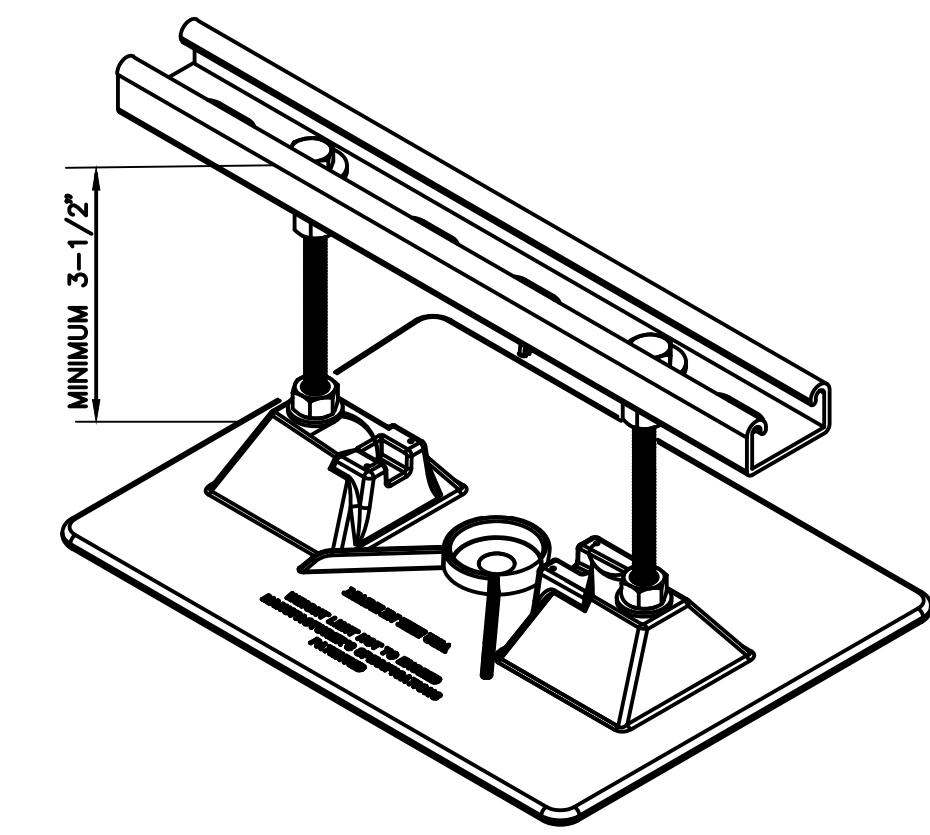


- CONDUIT SCHEDULE
1. 2-1/2" SCHEDULE 40 PVC UNDERGROUND CONDUIT FOR 120/208V GENERATOR FEEDER
 2. 2-1/2" CONDUIT FOR 120/208V GENERATOR FEEDER
 3. 2-1/2" CONDUIT FOR GENERATOR BATTERY CHARGER, BLOCK HEATER, BATTERY AND ALTERNATOR HEATER, GENERAL PURPOSE RECEPTACLE, & STARTING CIRCUITS.
 4. 1" CONDUIT FOR GENERATOR REMOTE ANNUNCIATOR AND DATA CABLE.

3
 E004
SECTION A-A UNDERGROUND DIRECT BURIED CONDUITS
 NO SCALE

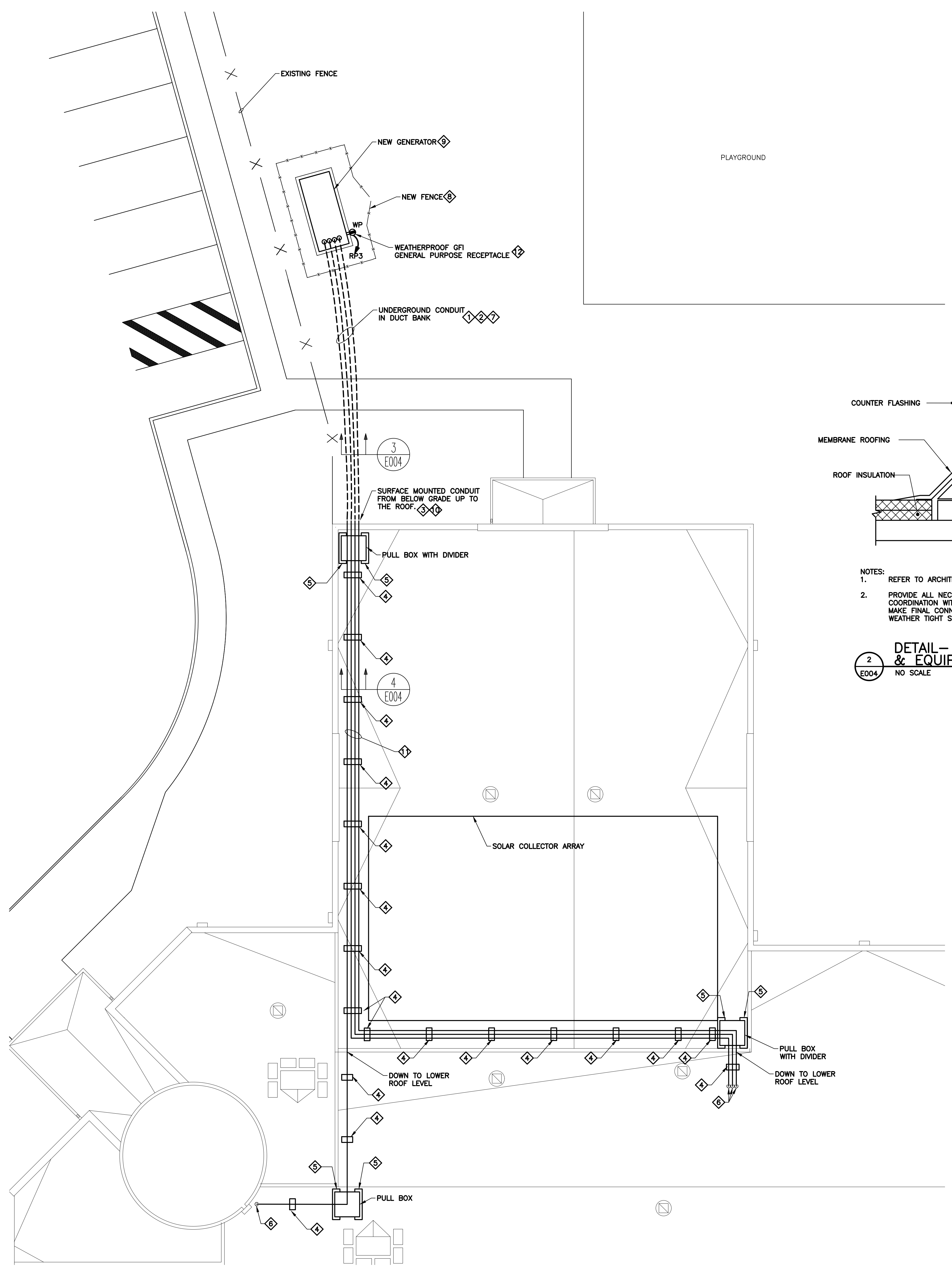
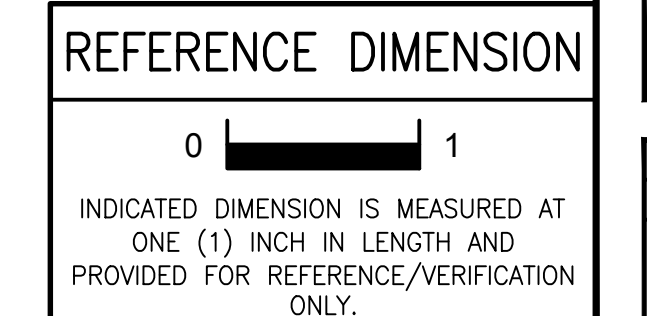


- CONDUIT SCHEDULE
1. 2-1/2" EMT CONDUIT WITH RAIN-TIGHT COMPRESSION FITTING AND EXPANSION FITTINGS AS REQUIRED FOR 120/208V GENERATOR FEEDER
 2. 2-1/2" EMT CONDUIT FOR 120/208V GENERATOR FEEDER
 3. 2-1/2" EMT CONDUIT FOR GENERATOR BATTERY CHARGER, BLOCK HEATER, BATTERY AND ALTERNATOR HEATER, GENERAL PURPOSE RECEPTACLE, & STARTING CIRCUITS.
 4. 1" EMT CONDUIT FOR GENERATOR REMOTE ANNUNCIATOR AND DATA CABLE.



- NOTE:
1. SPACING, PER MANUFACTURER'S RECOMMENDATIONS. SPACING IS NOT TO EXCEED 10 FEET ON CENTER.
 2. HEIGHT MINIMUM IS 3-1/2" AND NOT TO EXCEED MANUFACTURER'S SPECIFICATIONS.
 3. PROVIDE SUPPORT FOR CONDUIT PER MANUFACTURER'S RECOMMENDATIONS.
 4. INSTALL SUPPORT ON WEAR PAD ON ROOF SURFACE.

4
 E004
DETAIL - HORIZONTAL ROOFTOP CONDUIT SUPPORT
 NO SCALE



1
 E004
PARTIAL ROOF LOCATION PLAN - SHANER ELEMENTARY SCHOOL
 SCALE: 1/8" = 1'-0"

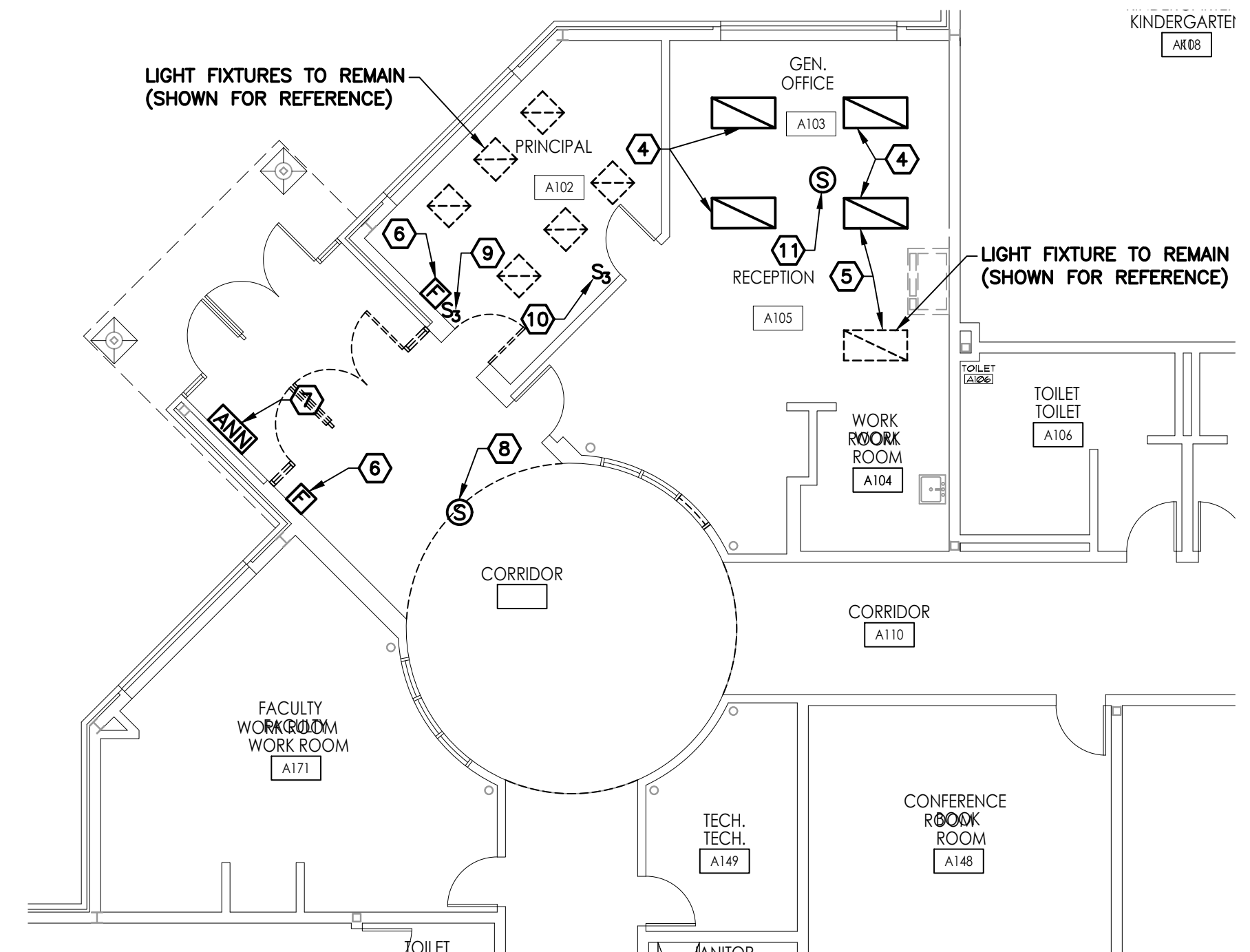
02/15/2019
 ISSUED FOR BID

Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghm@gillan-hartmann.com
 G&H Project No. 2018-204

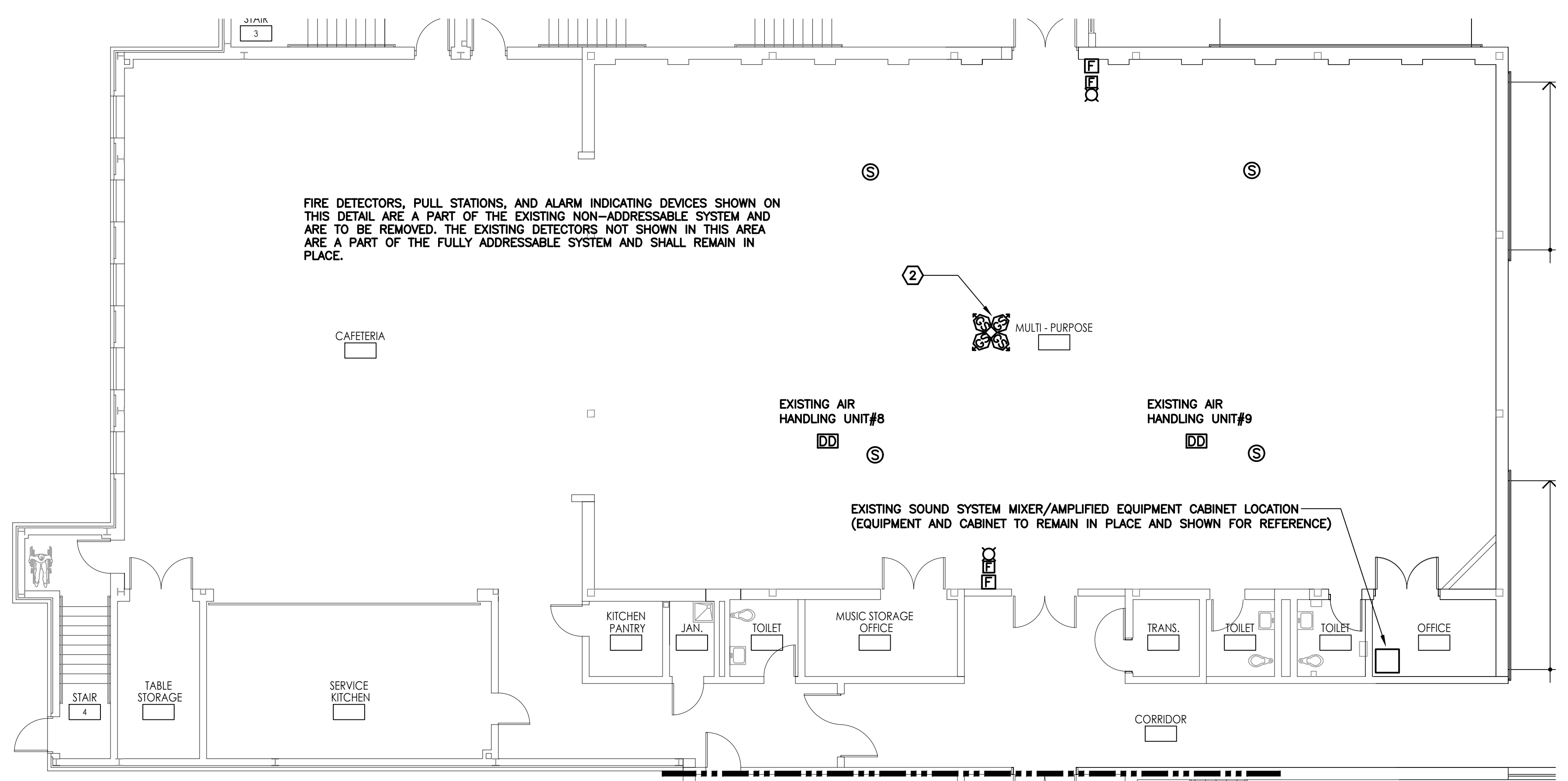
ENGINEER
 MICHAEL S. GILLAN, PE

DATE
 NO. 24GE04470000

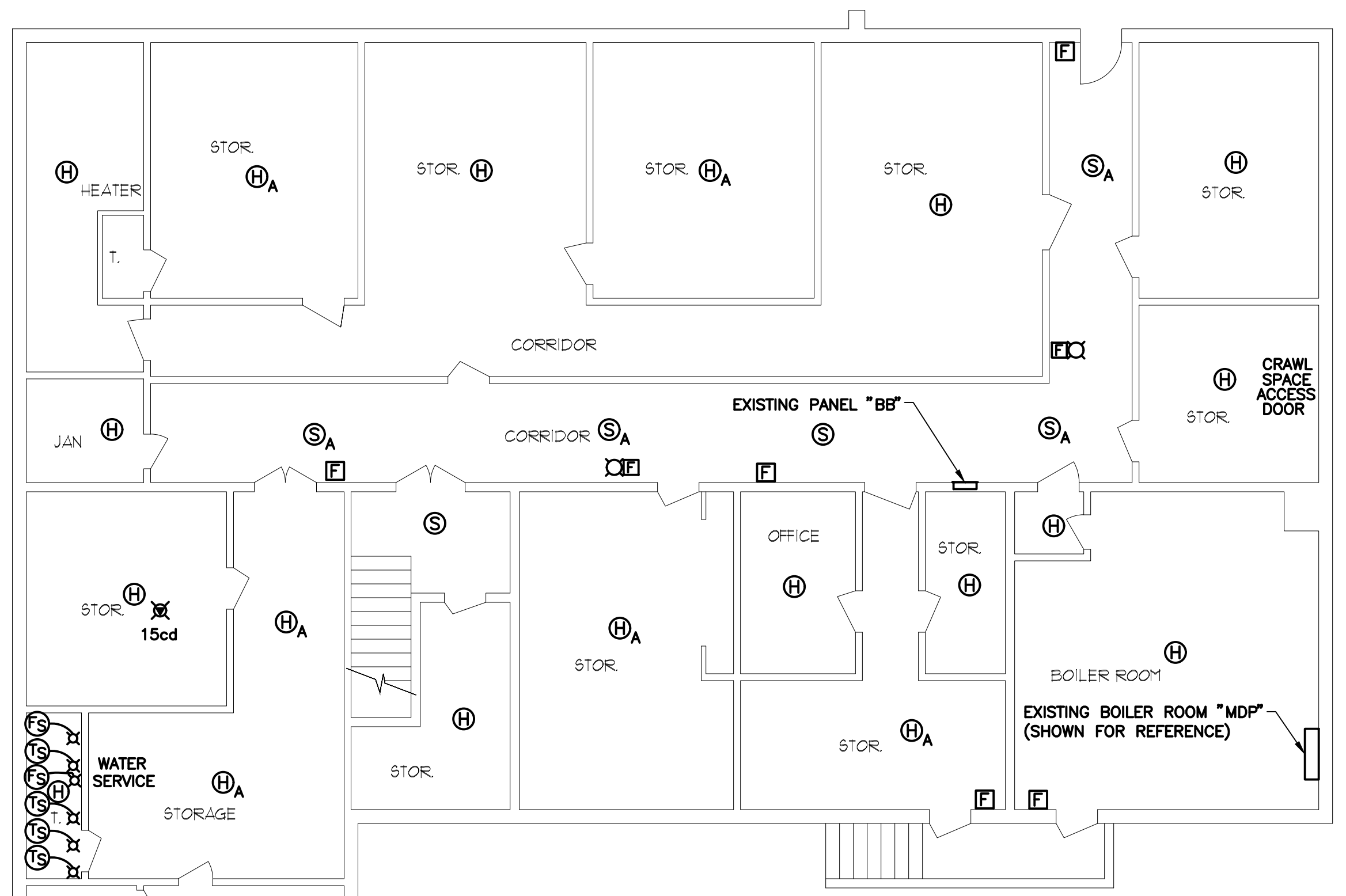
FILE PATH: E:\Projects\2018\201804 - 1515 Lower Ferry Road - Alterations\Drawings\Electrical\Legend and Dim Notes\Shaner.dwg
 USER: SAG: 2019/02/15 04:57 PM PLOTTED: 2019/02/15 05:24 PM PLOTTED BY: TML



1
PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK A
SCALE: 1/8" = 1'-0"



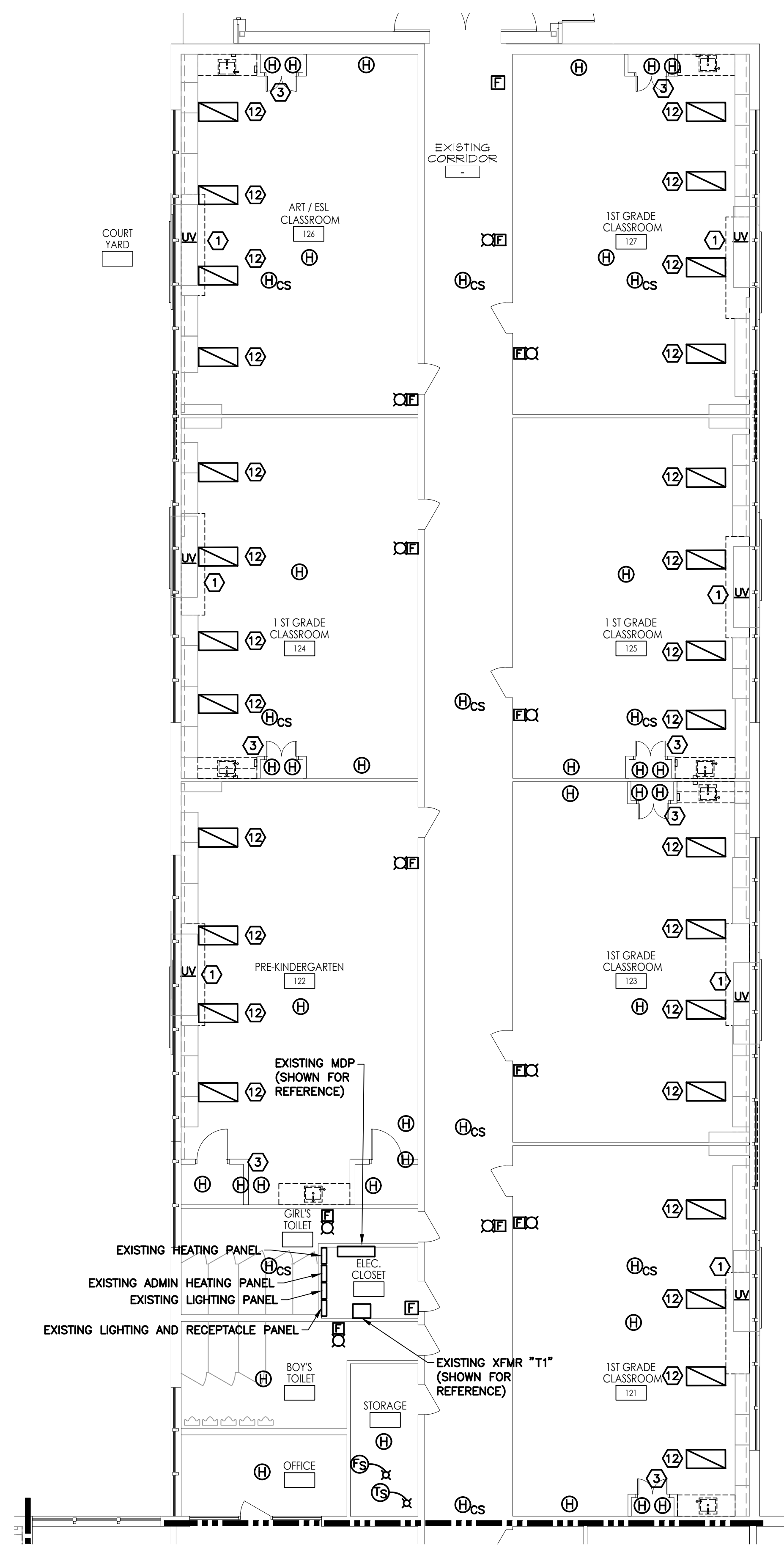
2
PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK B
SCALE: 1/8" = 1'-0"



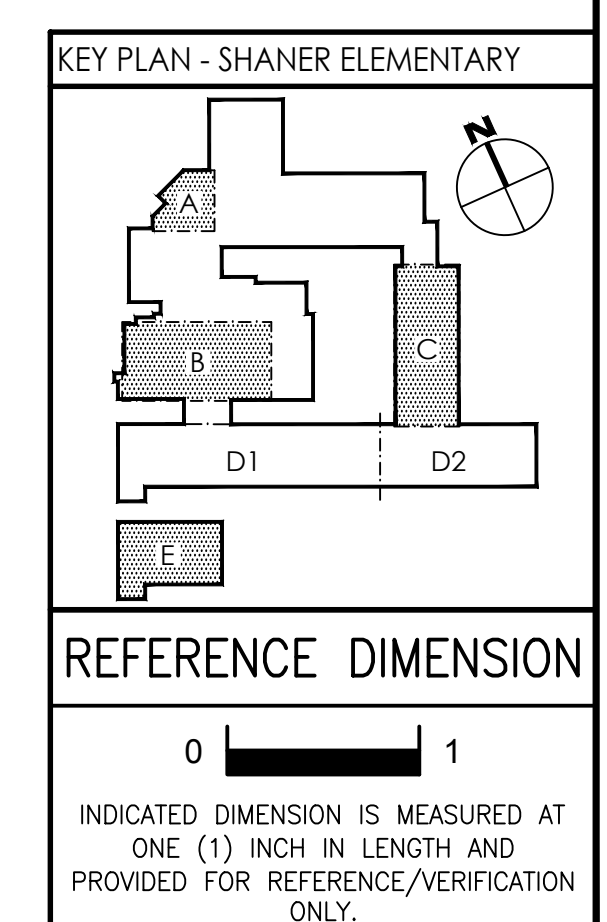
4
BASEMENT FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK G
SCALE: 1/8" = 1'-0"

REMOVAL NOTES:

- 1 DISCONNECT AND REMOVE POWER WIRING FROM UNIT VENTILATORS BACK TO THE SOURCE.
- 2 REMOVE THE FOUR CEILING MOUNTED LOUDSPEAKERS AND ALL ASSOCIATED LOUDSPEAKER MOUNTING HARDWARE AND LOUDSPEAKER WIRING FROM THE LOUDSPEAKERS BACK TO THE EXISTING SOUND SYSTEM MIXER/AMPLIFIER CABINET LOCATION IN GYM OFFICE B113 AND SHOWN ON THIS DRAWING FOR REFERENCE. MAINTAIN THE EXISTING SOUND SYSTEM MIXER/AMPLIFIER EQUIPMENT AND EQUIPMENT CABINET AT THE SAME LOCATION.
- 3 REMOVE HEAT DETECTORS IN CLOSETS ABOVE AND BELOW.
- 4 DISCONNECT, REMOVE, CLEAN PROTECT, AND STORE THESE FIXTURES FOR REUSE AS SHOWN ON THE NEW WORK PLANS UNO. PROTECT EXISTING WIRING TO BE REWIRED LATER.
- 5 DISCONNECT AND MAINTAIN WIRING FROM THE EXISTING TO REMAIN LIGHT FIXTURE TO BE REMOVED. TO BE REWIRED LATER AS SHOWN ON THE NEW WORK DRAWINGS.
- 6 REMOVE FIRE ALARM PULLSTATION AND ASSOCIATED ALARM LIFT COVER AND RETAIN FOR REINSTALLATION AS SHOWN ON THE WORK DRAWINGS.
- 7 DISCONNECT AND REMOVE THE REMOTE ANNUNCIATOR AND ALL ASSOCIATED WIRING BACK TO THE SOURCE.
- 8 DISCONNECT, REMOVE, CLEAN PROTECT, AND STORE THE FIRE ALARM DEVICE FOR REUSE AS SHOWN ON THE NEW WORK PLANS UNO. PROTECT EXISTING WIRING TO BE REWIRED LATER.
- 9 DISCONNECT AND REMOVE THE THREE-WAY SWITCH. ABANDON WIRING IN EXISTING BACK BOX AND PROVIDE MATCHING COVERPLATE, PAINTED TO MATCH THE EXISTING WALL FINISH.
- 10 DISCONNECT AND REMOVE THE THREE-WAY SWITCH. MAINTAIN EXISTING WIRING TO BE REUSED AS SHOWN ON THE NEW WORK DRAWINGS.
- 11 REMOVE AND MAINTAIN EXISTING CEILING MOUNTED FIRE ALARM DEVICE FOR REINSTALLATION AS SHOWN ON THE NEW WORK DRAWINGS.
- 12 EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED FOR REINSTALLATION AS SHOWN ON THE NEW WORK DRAWINGS.



3
PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK C
SCALE: 1/8" = 1'-0"



Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL
CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER
MICHAEL S. GILLAN, PE
DATE
NO. 24GE04470000

GFVHD architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

JOHN J. VEISZ, AIA, CSEA
NO. 2142664001 PA-80620198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2142664001 PA-80620204
GEORGE R. DUTRIE, JR., AIA, PP
NO. 2142627200 PA-80620200

Project Name
ALTERATIONS AND
RENOVATIONS TO
JOSEPH C. SHANER
MEMORIAL
ELEMENTARY SCHOOL

Project Owner Name
HAMILTON
TOWNSHIP BOARD
OF EDUCATION

Project Location
5801 3rd ST, MAYS
LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
DRH
Drawn By
NMR / JTM
Scale
AS NOTED

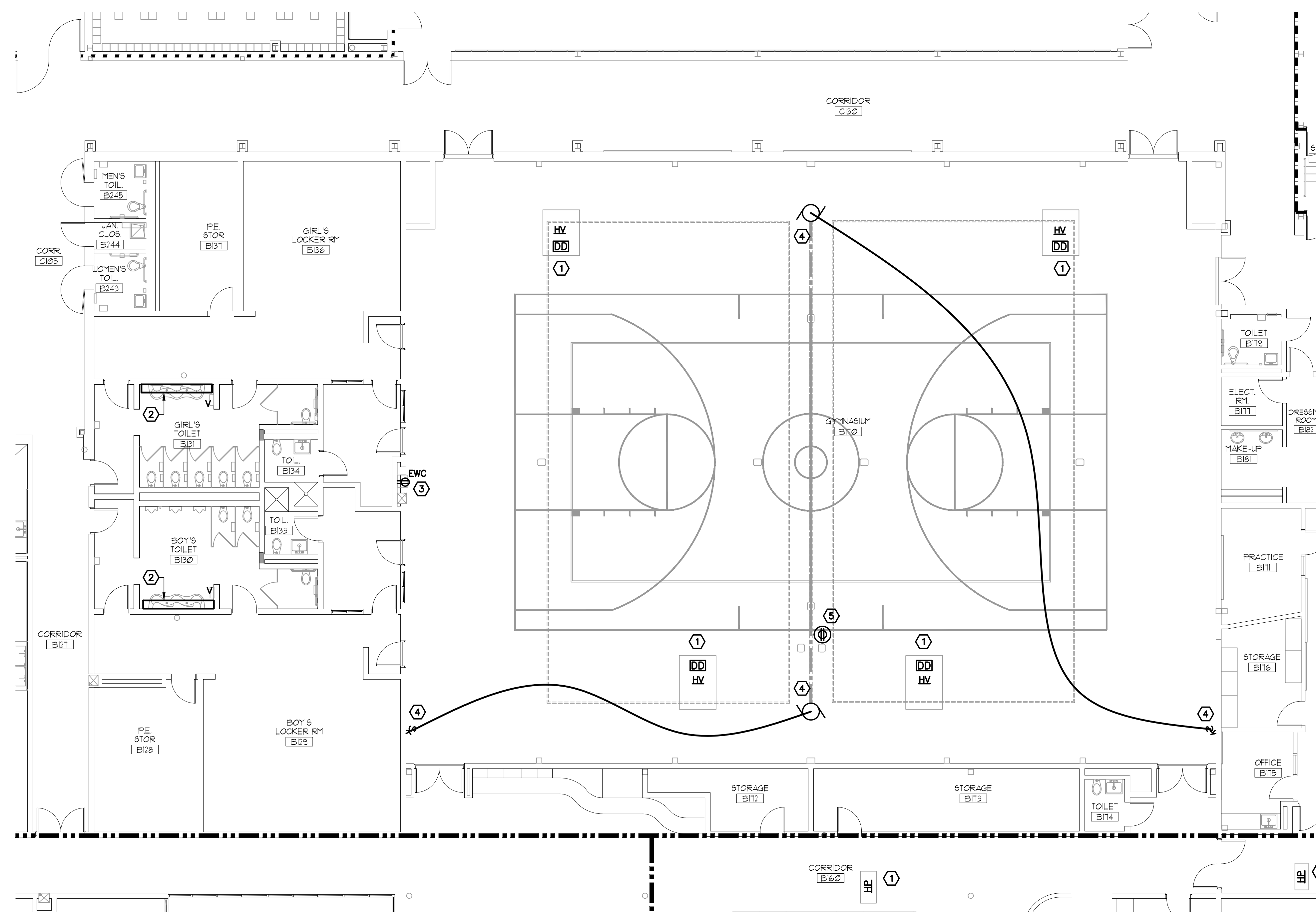
Drawing Name
PARTIAL
BASEMENT & FIRST
FLOOR PLANS:
ELECTRICAL
REMOVALS -
BLOCKS A, B, C, & E

SHANER E.S.

Revisions		
No.	Date	Description

Drawing Number
E101

FILE PATH: E:\Projects\2018\201804_HTSO_Joseph_Shaner_ES_Alterations_Learnings\Drawings\Electrical Removals_Shaner.dwg
 USER: SAGD 2018/02/15 04:53 PM PLOTTED: 2019/02/15 05:24 PM PLOTTED BY: TML

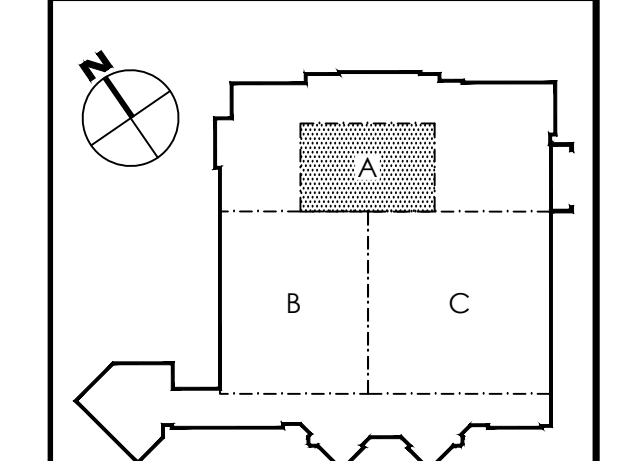


1
E101 PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK A
SCALE: 1/8" = 1'-0"

REMOVAL NOTES:

- ① DISCONNECT BRANCH CIRCUIT WIRING FROM EXISTING HVAC UNITS BACK TO THE SOURCE AND RE-LABEL EXISTING BREAKERS AS SPARE IF APPLICABLE.
- ② REMOVE AND REINSTALL WALL MOUNTED BATHROOM VANITY LIGHT FIXTURES.
- ③ REMOVE THE EXISTING RECEPTACLE FOR THE ELECTRIC WATER COOLER, DISCONNECT AND MAINTAIN THE EXISTING BRANCH CIRCUIT WIRING FOR NEW ELECTRIC WATER COOLER, VERIFY WHICH CIRCUIT BREAKER IN PANEL "RC" FEEDS THE EXISTING RECEPTACLE AND REPLACE IT WITH A NEW GFI BREAKER.
- ④ DISCONNECT THE EXISTING GYMNASIUM DIVIDER WALL MOTOR BRANCH CIRCUIT WIRING AND ASSOCIATED SWITCHES BACK TO THE SOURCE.
- ⑤ DISCONNECT THE EXISTING GYMNASIUM FLOOR BOX AND BRANCH CIRCUIT WIRING BACK TO THE SOURCE.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com | ghmail@gillan-hartmann.com
Cert. of Auth. #24027932400 G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

FVHHD architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Williker Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

JOHN J. VEISZ, AIA, CSBA
NJ 2142666001 PA 80020189
WILLIAM D. HOPKINS III, AIA, LEED AP
NJ 2142666001 PA 80020189
GEORGE R. DUTRIE, JR., AIA, PP
NJ 2142666001 PA 80020189

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
DRH

Drawn By
NMR

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS - BLOCK A

DAVIES M.S.

Revisions		
No.	Date	Description

Drawing Number
E101

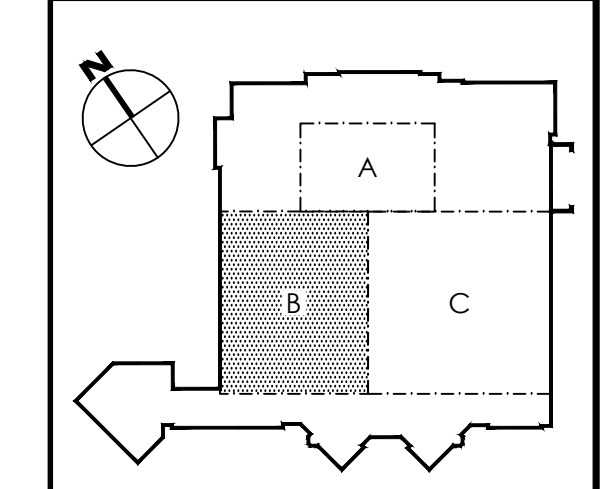
FILE PATH: C:\projects\2018\2018205_HHSO_Middl... Renovation... Drawings\Electrical Removals_Davies.dwg
LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML



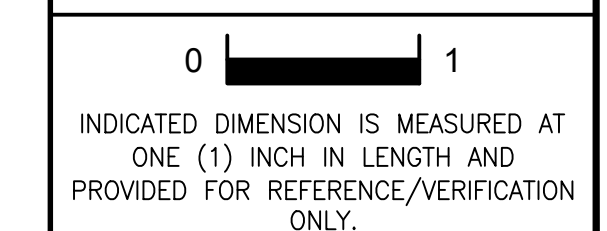
REMOVAL NOTES:

- ① DISCONNECT AND REMOVE POWER AND CONTROL WIRING FROM HEAT PUMP BACK TO THE SOURCE.
- ② REMOVE AND REINSTALL WALL MOUNTED BATHROOM VANITY LIGHT FIXTURES.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION



1
E102
PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK B
SCALE: 1/8" = 1'-0"

02/15/2019
ISSUED FOR BID

G Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL
CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-205

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
NO. 2148664001 PA. 800287818
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2148664001 PA. 800287818
GEORGE R. DUTHIE JR., AIA, PP
NO. 2148664001 PA. 800287818

FVH D architects
planners
Fraytak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
DRH

Drawn By
NMR

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS - BLOCK B

DAVIES M.S.

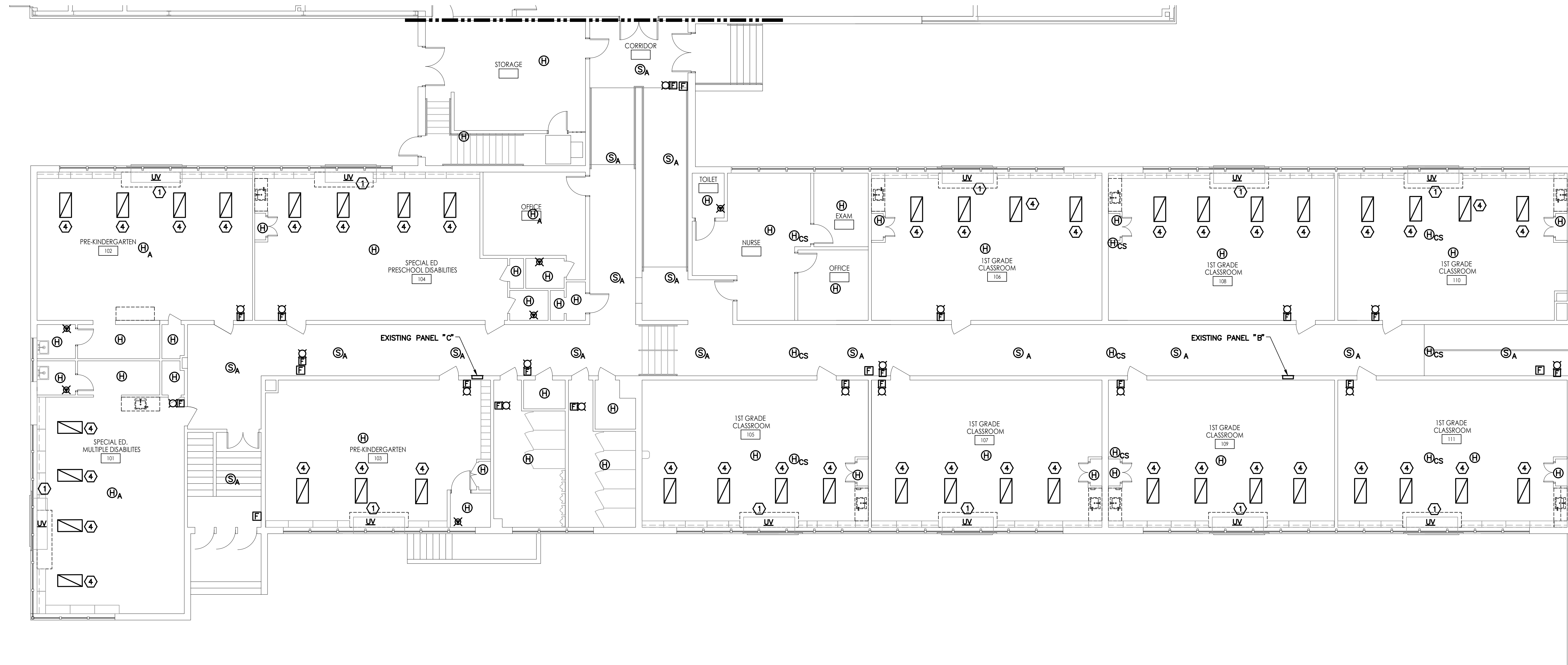
Revisions		
No.	Date	Description

Drawing Number
E102

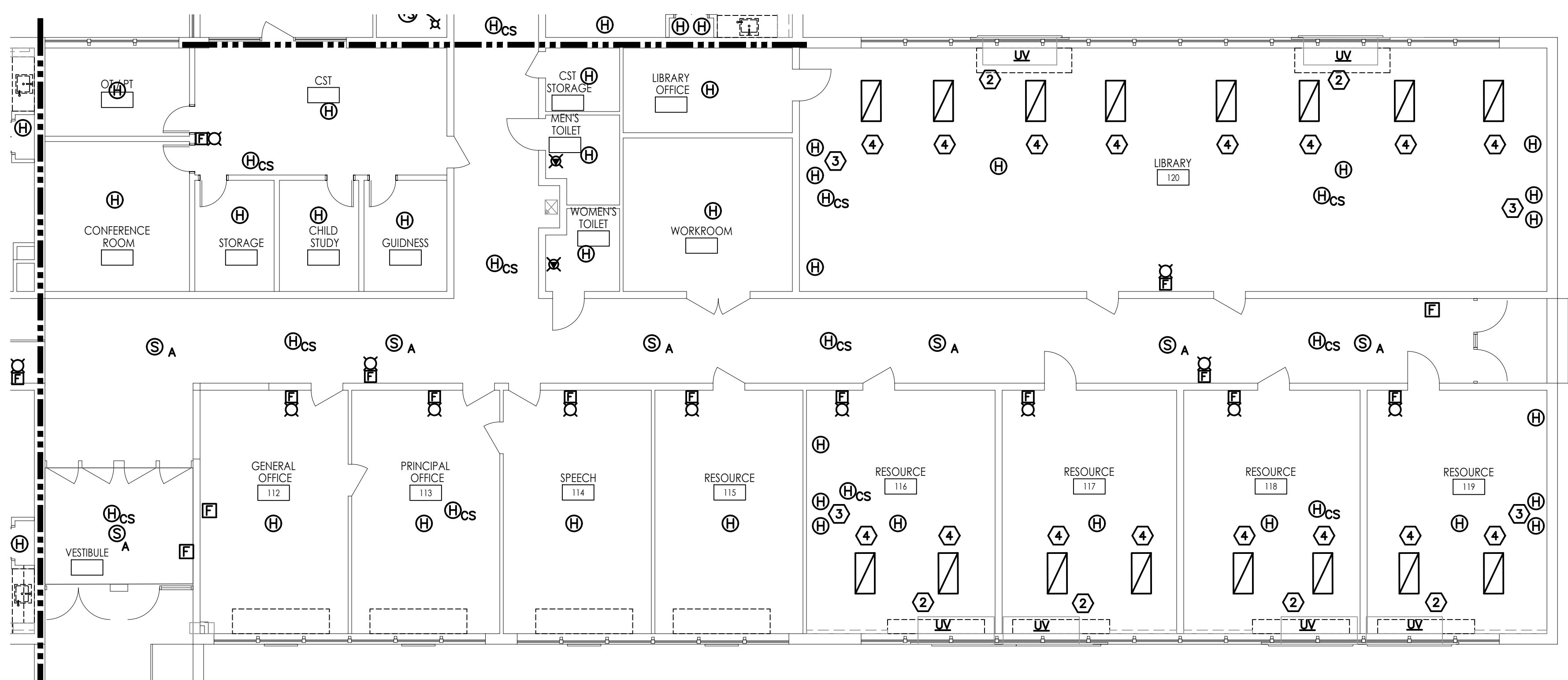
FILE PATH: C:\projects\2018\2018205_HMSD_William_Davies_Middle_School_Renovations_Drawings\Electrical_Removals_Davies.dwg
LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML

REMOVAL NOTES:

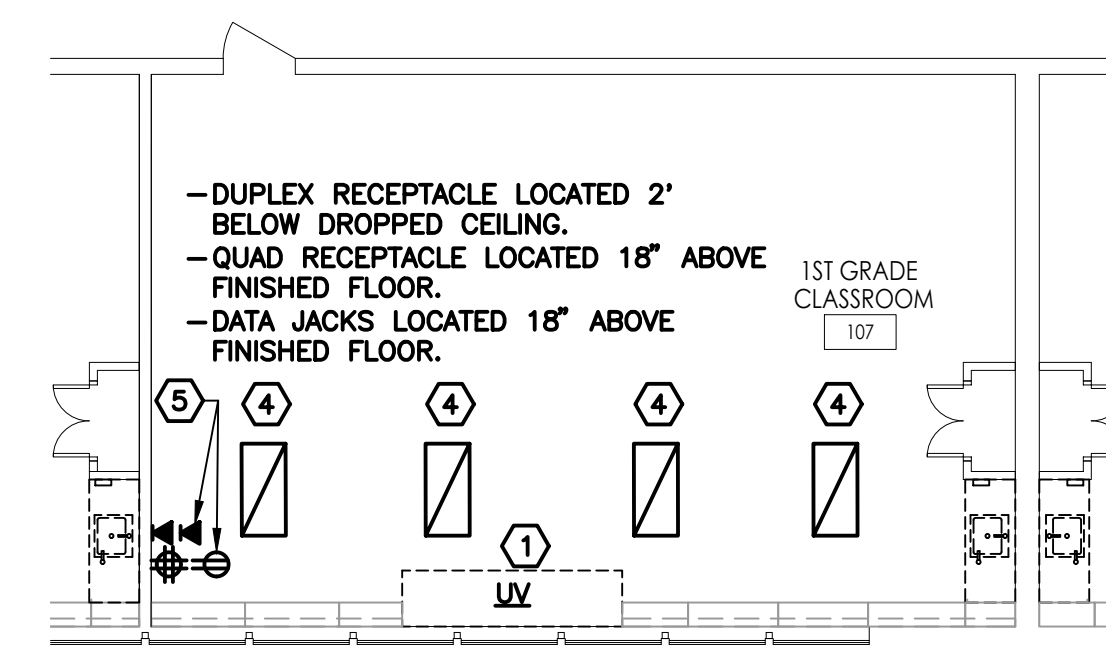
- ① DISCONNECT POWER WIRING FROM UNIT VENTILATORS AND MAINTAIN FOR REUSE AS SHOWN ON THE NEW WORK DRAWINGS
- ② DISCONNECT AND REMOVE POWER WIRING FROM UNIT VENTILATORS BACK TO THE SOURCE.
- ③ DETECTORS MOUNTED IN ABOVE AND BELOW CLOSETS.
- ④ EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED FOR REINSTALLATION AS SHOWN ON THE NEW WORK DRAWINGS.
- ⑤ DISCONNECT, REMOVE, AND RETAIN EXISTING RECEPTACLES AND DATA JACKS FOR REINSTALLATION AT THE NEW LOCATION SHOWN ON DETAIL 3/E202 IN ORDER TO FACILITATE THE NEW CORNER UV INSTALLATION. MAINTAIN THE EXISTING BRACH CIRCUIT AND DATA WIRING. REMOVE EXISTING SURFACE MOUNTED RACEWAY.



1
E102
**PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK D1**
SCALE: 1/8" = 1'-0"



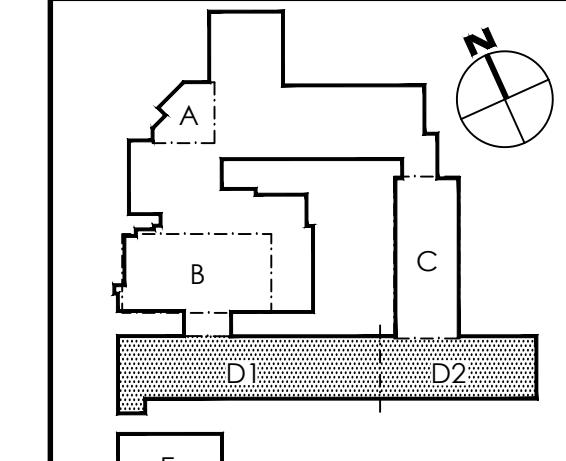
2
E102
**PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK D2**
SCALE: 1/8" = 1'-0"



3
E102
**PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - CORNER UV INSTALLATION**
SCALE: 1/8" = 1'-0"

- NOTES:**
1. THIS PLAN IS TYPICAL FOR CORNER UNIT VENTILATOR INSTALLATIONS. REFER TO THE ARCHITECTURAL DOCUMENTS FOR UNIT VENTILATOR LOCATION.
 2. REFER TO REMOVAL FLOOR PLANS FOR FIRE ALARM REMOVAL/REPLACEMENT WORK.

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-238-8910 609-347-1583 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

FVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTRIE, JR., AIA, PP

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
DRH
Drawn By
NMR / JTM
Scale
AS NOTED

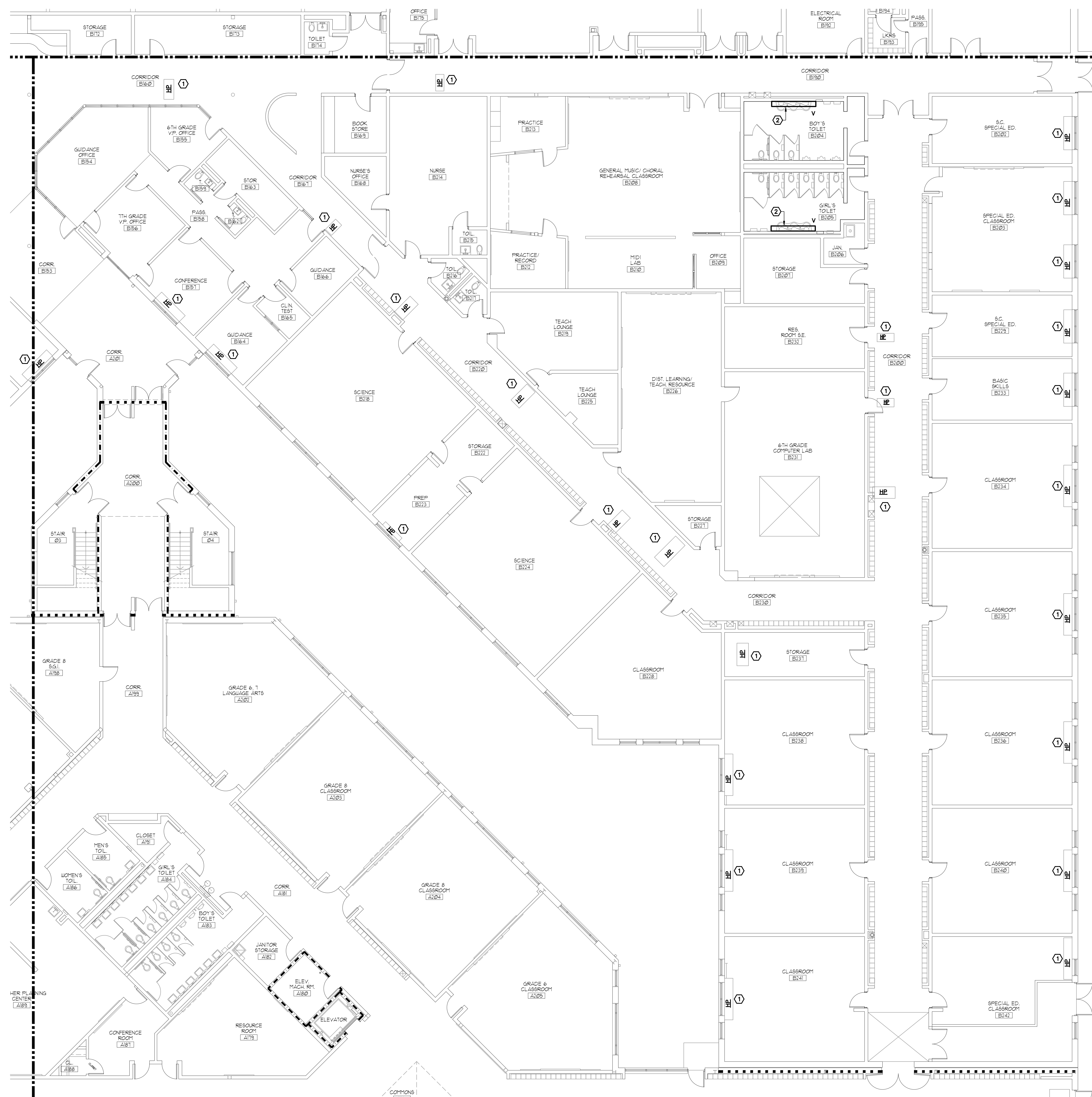
Drawing Name
PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS - BLOCKS D1 & D2
SHANER E.S.

Revisions
No. Date Description
E102

FILE PATH: E:\Projects\2018\201804_HTSO_Joseph_Shaner_ES_Renovations_Drawings\Electrical Removals_Shaner.dwg
LAST SAVE: 2019/02/15 04:53 PM PLOTTED: 2019/02/15 05:24 PM PLOTTED BY: TML

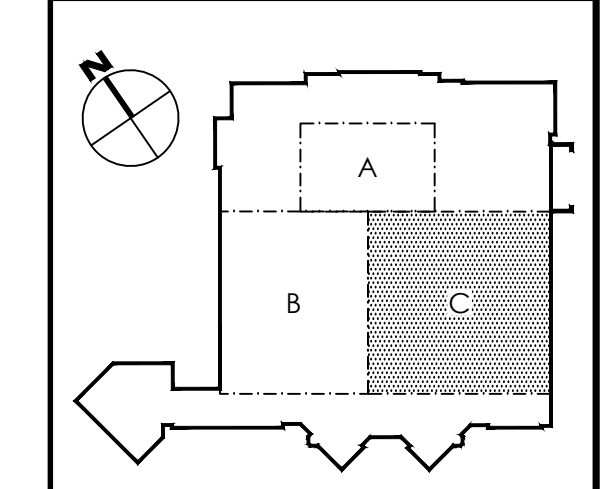
REMOVAL NOTES:

- ① DISCONNECT AND REMOVE POWER AND CONTROL WIRING FROM HEAT PUMP BACK TO THE SOURCE.
- ② REMOVE AND REINSTALL WALL MOUNTED BATHROOM VANITY LIGHT FIXTURES.

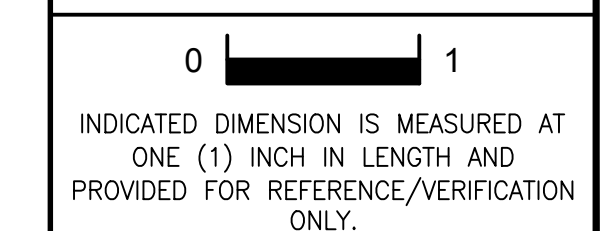


**PARTIAL FIRST FLOOR PLAN
ELECTRICAL REMOVAL - BLOCK C**
SCALE: 1/8" = 1'-0"

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION



Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL
CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1583 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

FVH D architects
planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 440 Williker Ave - Mont Clear - Pennsylvania 17453
F V H D P C - C O M

JOHN J. VEISZ, AIA, CSEA
NJ 2142666001 PA 80620198
WILLIAM D. HOPKINS III, AIA, LEED AP
NJ 2142666001 PA 80620204
GEORGE R. DUTRIE JR., AIA, PP
NJ 2142667000

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR., MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
DRH

Drawn By
NMR

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: ELECTRICAL REMOVALS - BLOCK C

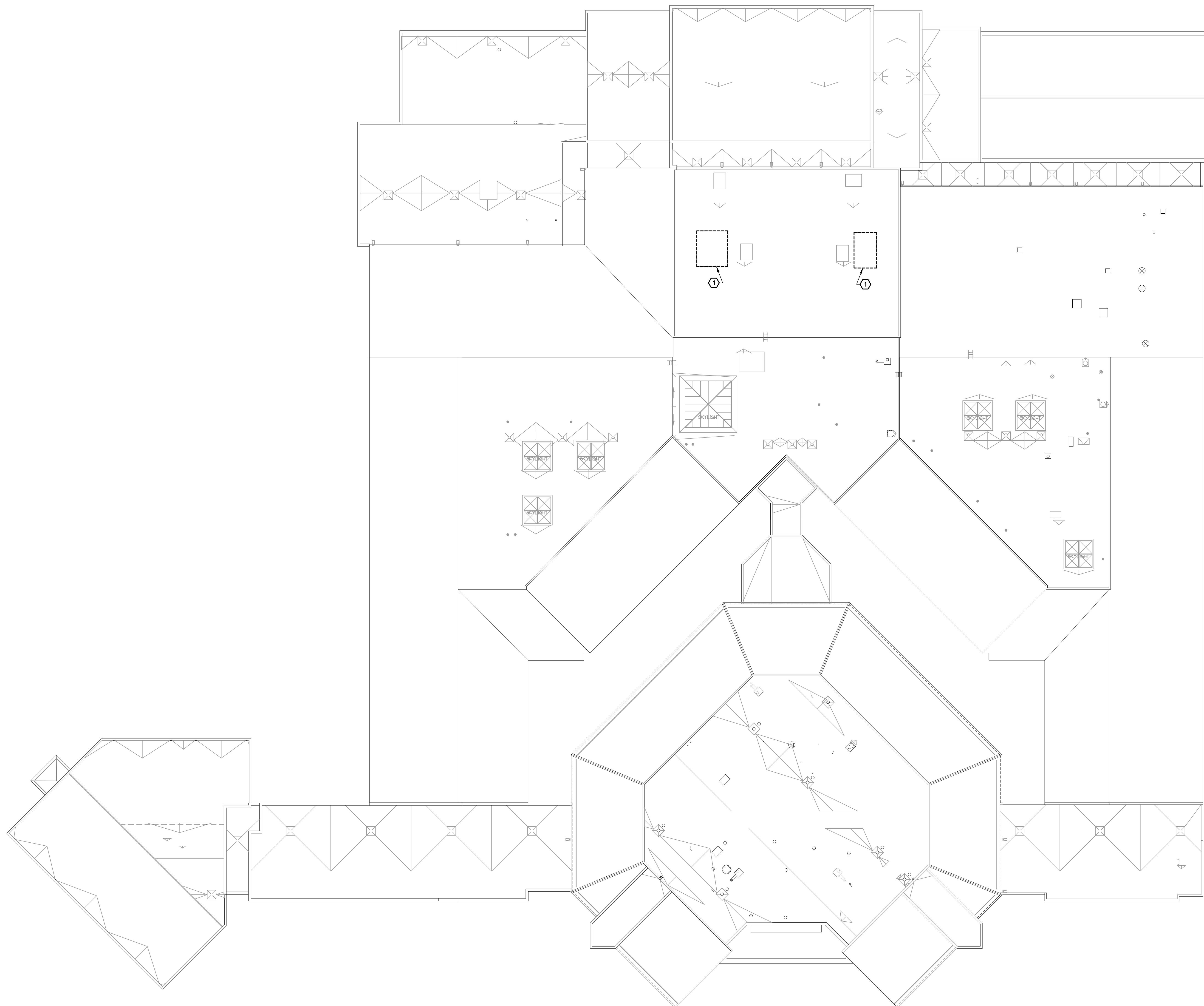
Revisions

No.	Date	Description

Drawing Number

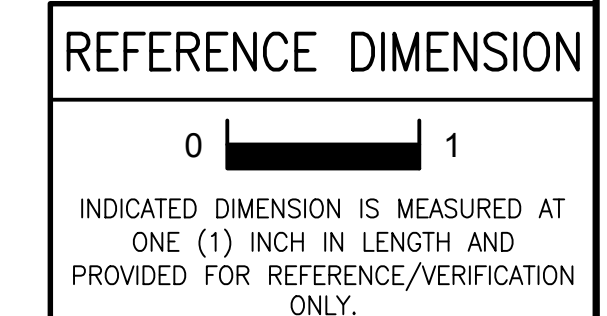
E103

FILE PATH: C:\projects\2018\2018205_HESD_William_Davies_Middle_School_Renovations_Drawings\Electrical_Removals_Davies.dwg
LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML



REMOVAL NOTES:
 ① SOLAR PANELS TO BE REMOVED AND REINSTALLED TO FACILITATE NEW RTU INSTALLATION. COORDINATE EXTENT OF SOLAR PANEL REMOVAL/REINSTALL WITH THE HVAC CONTRACTOR.

① **ELECTRICAL REMOVALS – ROOF PLAN**
 SCALE: 20' = 1'-0"



Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1583 302-654-5959
 www.gillan-hartmann.com gillan@ghillan-hartmann.com
 G&H Project No. 2018-205

02/15/2019
 ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
 NJ 21A000001 PA 80620189
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ 21A000001 PA 80620204
 GEORGE R. DUTHIE, JR., AIA, PP
 NJ 21A0029200

FVHD architects planners
Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Wiltshire Ave - Mont Clear - Pennsylvania 17453
 F V H D P C . C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C
 Project Date
02.15.2019
 Checked By
DRH
 Drawn By
NMR
 Scale
AS NOTED

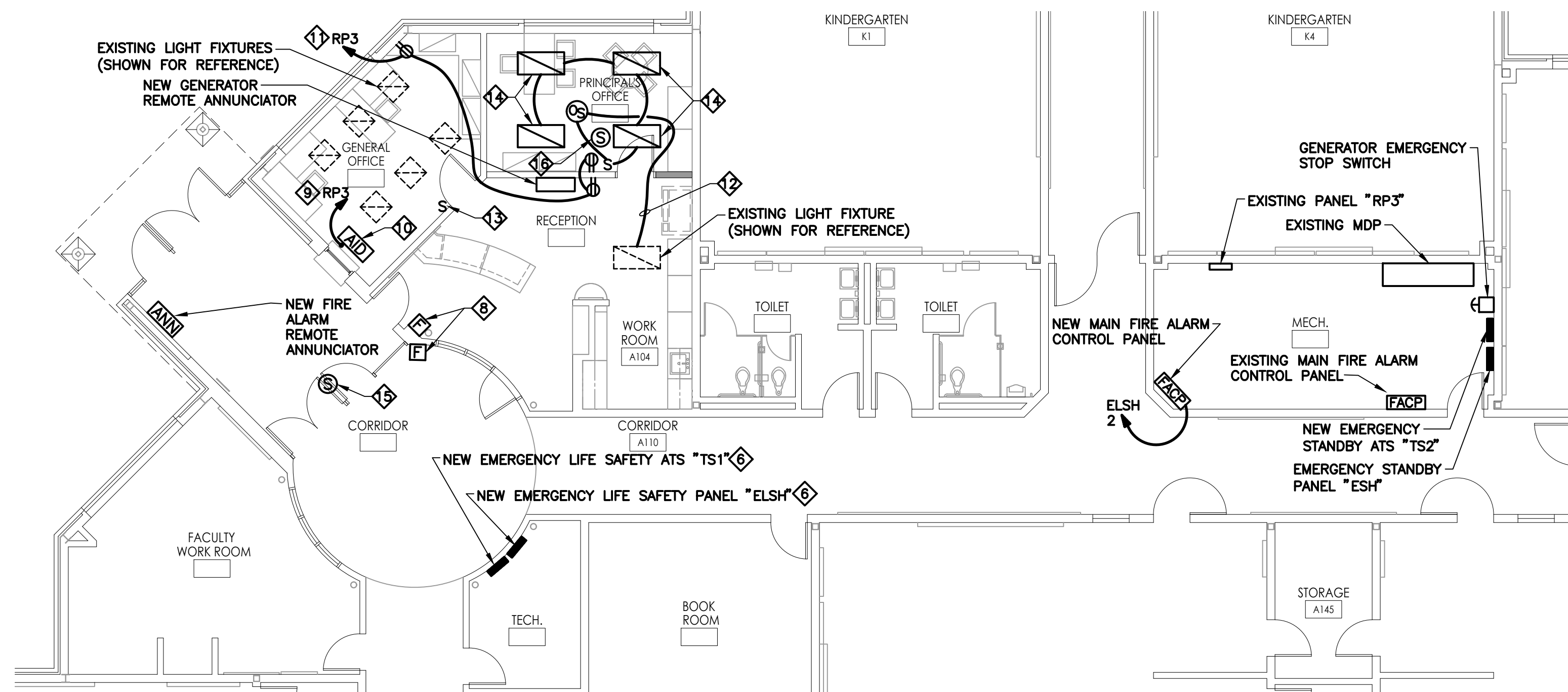
Drawing Name
ROOF PLAN: ELECTRICAL REMOVALS

DAVIES M.S.

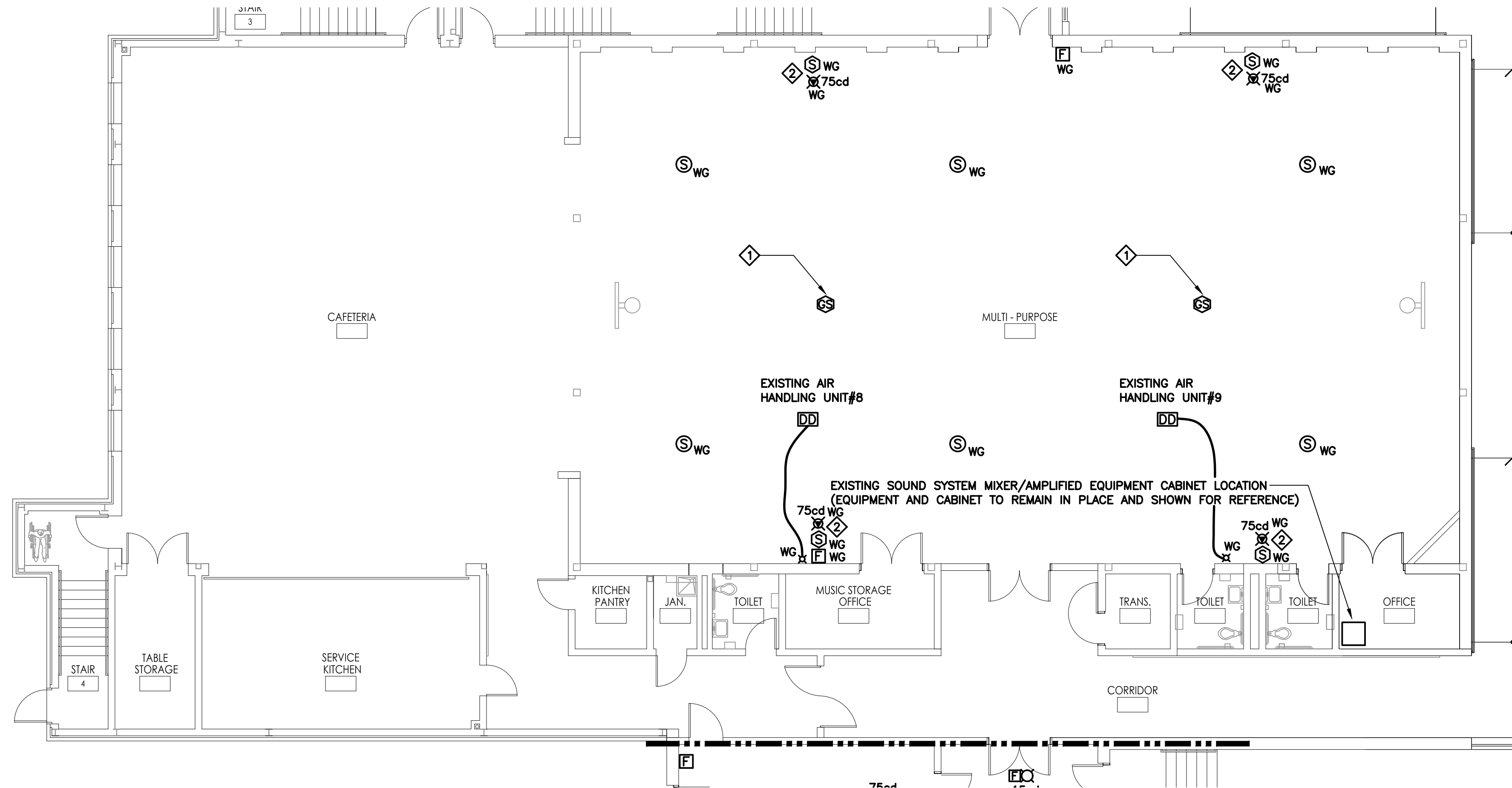
Revisions		
No.	Date	Description

Drawing Number
E121

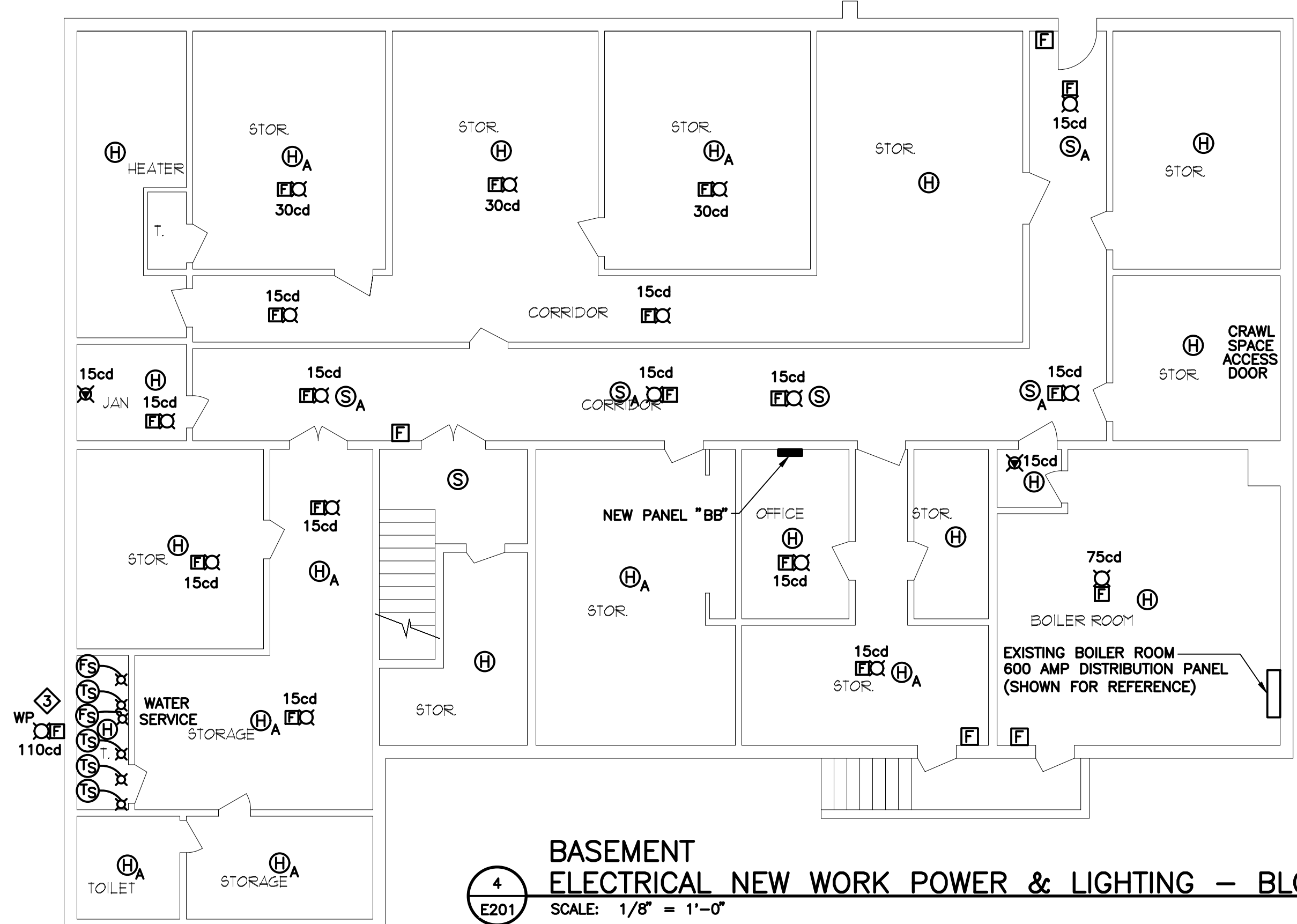
FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_MS_Renovations_Drawings\Electrical Removals Roof Dwg.dwg
 LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML



1
E201
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER & LIGHTING - BLOCK A
SCALE: 1/8" = 1'-0"



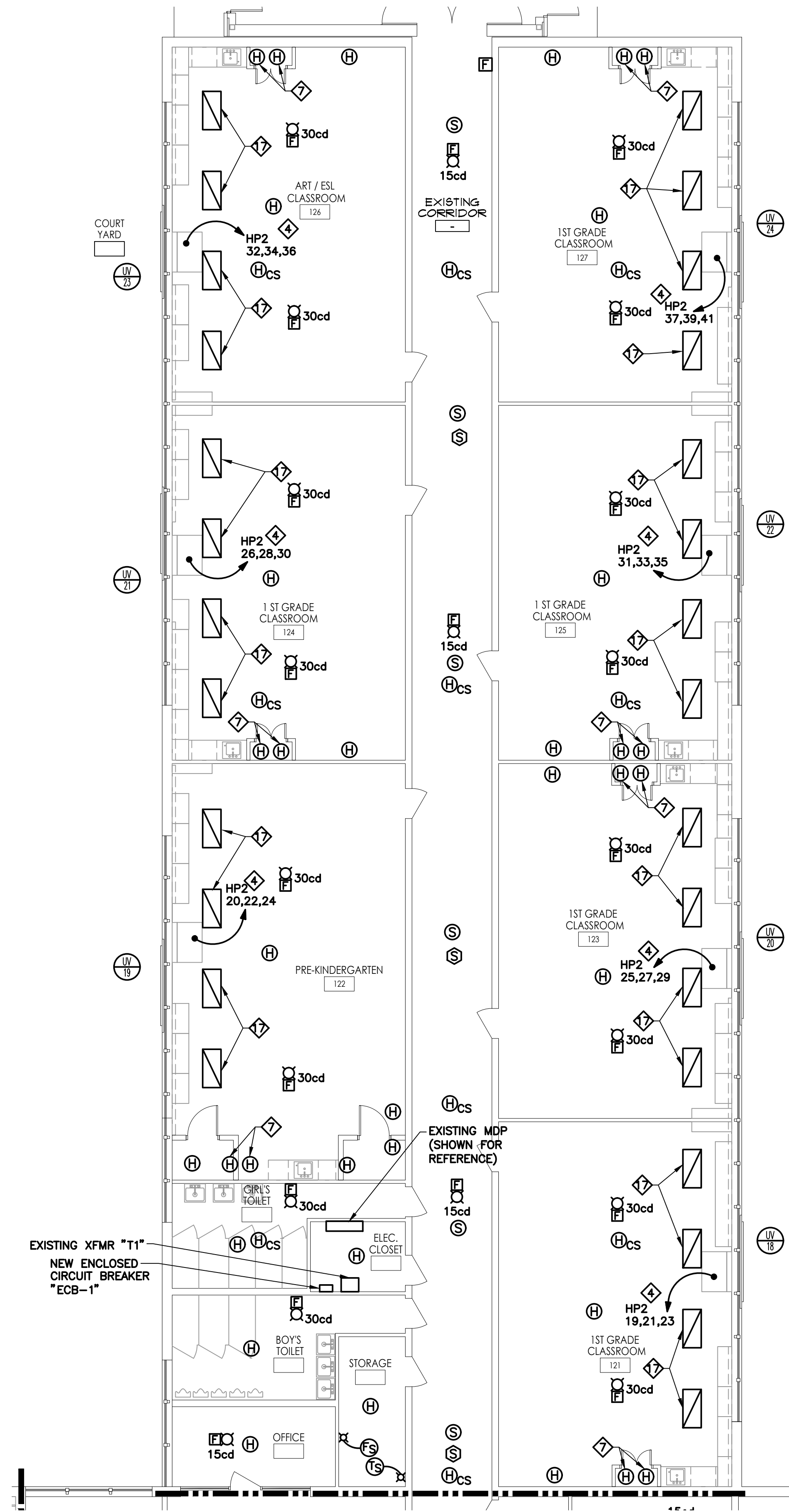
2
E201
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER & LIGHTING - BLOCK B
SCALE: 1/8" = 1'-0"



4
E201
BASEMENT
ELECTRICAL NEW WORK POWER & LIGHTING - BLOCK G
SCALE: 1/8" = 1'-0"

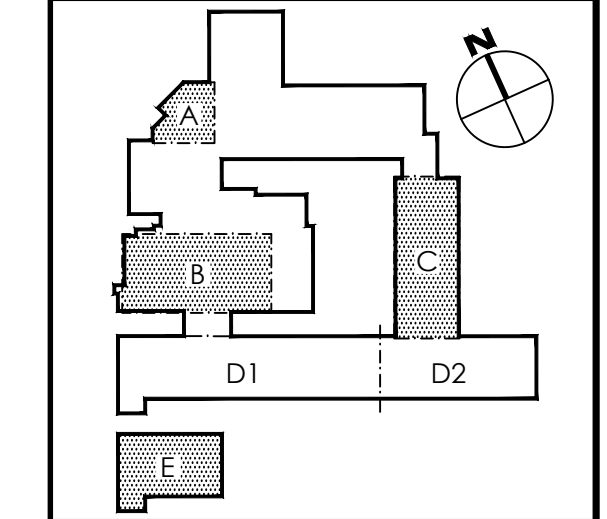
NEW WORK NOTES:

- ◇ PROVIDE NEW GYMNASIUM SOUND SYSTEM OMNI-DIRECTIONAL LOUDSPEAKER WITH ALL REQUIRED MOUNTING DEVICES AND HARDWARE FOR A COMPLETE AND FULLY FUNCTIONAL CEILING MOUNTED LOUDSPEAKER INSTALLATION. PROVIDE LOUDSPEAKER WIRING FROM THE LOUDSPEAKER TO THE EXISTING GYMNASIUM SOUND SYSTEM MIXER/AMPLIFIER EQUIPMENT CABINET IN THE GYMNASIUM OFFICE B113 SHOWN ON THE SAME DETAIL. BELOW THE LEVEL OF THE CEILING BAR JOISTS PROVIDE LOUDSPEAKER WIRING IN SURFACE MOUNTED RACEWAY PAINTED TO MATCH THE EXISTING WALL FINISH. THE BASIS OF DESIGN FOR THE LOUDSPEAKER IS A "SOUNDSPHERE MODEL Q-12AWR RATED 8-OHMS NOMINAL IMPEDANCE AT 250 WATTS RMS" TO BE WIRED TO THE EXISTING MIXER/AMPLIFIER UNIT RATED 200 WATTS/CHANNEL AT 8 OHMS AND 560 WATTS/BRIDGED MONO AT 8 OHMS.
- ◇ THE NEW FIRE ALARM AUDIO DEVICES IN THE MULTIPURPOSE ROOM SHALL BE WALL MOUNTED AND WIRED TO AND CONTROLLED FROM THE NEW MAIN FIRE ALARM CONTROL PANEL. THE NEW FIRE ALARM VISUAL INDICATING DEVICES SHALL BE WALL MOUNTED (WALL MOUNTED AT THE HEIGHT REQUIRED BY NFPA-72) AND POWERED FROM AND SYNCHRONIZED WITH THE EXISTING VISUAL INDICATING DEVICES IN THE ADJACENT CAFETERIA. PROVIDE WIRE GUARDS FOR ALL FIRE ALARM DEVICES IN THE MULTIPURPOSE ROOM. PROVIDE ADDITIONAL/UPGRADED POWER SUPPLY AS REQUIRED FOR THE NEW VISUAL INDICATING DEVICES IN THE MULTIPURPOSE ROOM.
- ◇ EXTERIOR WEATHERPROOF FIRE ALARM AUDIO VISUAL DEVICE ACTIVATED BY SPRINKLER WATER FLOW.
- ◇ PROVIDE NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD.
- ◇ PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL "RP3" (PANEL LOCATION SHOWN ON THIS DRAWING). PROVIDE (2) #12(1) #12G, 3/4"C FROM THE FIRE ALARM CONTROL PANEL TO THE NEW CIRCUIT BREAKER.
- ◇ PROVIDE MOUNTING HARDWARE AS REQUIRED TO MOUNT THE PANEL ON THE CURVED WALL.
- ◇ PROVIDE HEAT DETECTORS IN CLOSETS ABOVE AND BELOW.
- ◇ RELOCATE EXISTING WALL MOUNTED FIRE ALARM PULLSTATION AND WALL MOUNTED ALARM LIFT COVER SHOWN REMOVED ON PLAN 1/E101 TO THIS LOCATION. MOUNT THE PULL STATION 44" ABOVE THE FINISHED FLOOR. PROVIDE SURFACE MOUNTED WIRE MOLD RACEWAY, PAINTED TO MATCH THE WALL FINISH, FROM THE DEVICE TO ABOVE THE DROPPED CEILING. INTERCEPT AND EXTEND THE EXISTING FIRE ALARM WIRING TO THE NEW LOCATION. PROVIDE ALL OTHER REQUIRED APPURTENANCES.
- ◇ PROVIDE A NEW 20A, SINGLE POLE CIRCUIT BREAKER IN PANEL "RP3." PROVIDE (2) #12(1) #12G IN 3/4"C FROM THE CIRCUIT BREAKER TO THE NEW FIRE SHUTTER. PROVIDE SURFACE MOUNTED WIRE MOLD RACEWAY, PAINTED TO MATCH THE WALL FINISH, FROM THE FIRE SHUTTER WINDOW TO ABOVE THE DROPPED CEILING.
- ◇ WIRE THE FIRE SHUTTER THROUGH THE FIRE ALARM ADDRESSABLE INTERFACE DEVICE TO CLOSE THE SHUTTER DURING AN ALARM CONDITION.
- ◇ PROVIDE A NEW 20A, SINGLE POLE CIRCUIT BREAKER IN PANEL "RP3." PROVIDE (2) #12(1) #12G IN 3/4"C FROM THE CIRCUIT BREAKER TO THE NEW RECEPTACLE. FOR RECEPTACLES ON EXISTING WALLS, PROVIDE SURFACE MOUNTED BACK BOX AND SURFACE MOUNTED WIRE MOLD RACEWAY, PAINTED TO MATCH THE WALL FINISH, FROM THE RECEPTACLE BACK BOX TO ABOVE THE DROPPED CEILING.
- ◇ INTERCEPT AND EXTEND THE EXISTING POWER WIRING FROM THE EXISTING RECESSED 2X4 LIGHT FIXTURE TO THE NEW OCCUPANCY SENSOR IN THE NEWLY DESIGNATED PRINCIPAL'S OFFICE AS SHOWN.
- ◇ PROVIDE NEW LIGHT SWITCH EXISTING LIGHT SWITCH BACK BOX (REPLACING THE 3-WAY LIGHT SWITCH SHOWN REMOVED ON THE REMOVAL DRAWINGS) TO CONTROL THE EXISTING LIGHTING IN THIS ROOM.
- ◇ REINSTALL THE 2X4 LIGHT FIXTURES SHOWN REMOVED ON THE REMOVAL DRAWINGS TO THE NEW LOCATION.
- ◇ REINSTALL THE CEILING MOUNTED FIRE ALARM DEVICE SHOWN REMOVED ON THE REMOVAL DRAWINGS, UPON COMPLETION OF THE SECURE VESTIBULE AREA.
- ◇ REINSTALL THE CEILING MOUNTED FIRE ALARM DEVICE SHOWN REMOVED ON THE REMOVAL DRAWINGS, UPON COMPLETION OF THE NEW PRINCIPAL'S OFFICE.
- ◇ REINSTALL AND RECONNECT THE LIGHT FIXTURE SHOWN ON THE REMOVAL PLAN. INTERCEPT AND EXTEND THE EXISTING WIRING TO THE NEW LOCATION. COORDINATE LIGHT FIXTURE LOCATIONS WITH THE NEW HVAC DUCTWORK.



3
E201
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER & LIGHTING - BLOCK C
SCALE: 1/8" = 1'-0"

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

FVH D
architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
140 Wiltshire Ave - Mont Clear - Pennsylvania 17453
F V H D P C . C O M

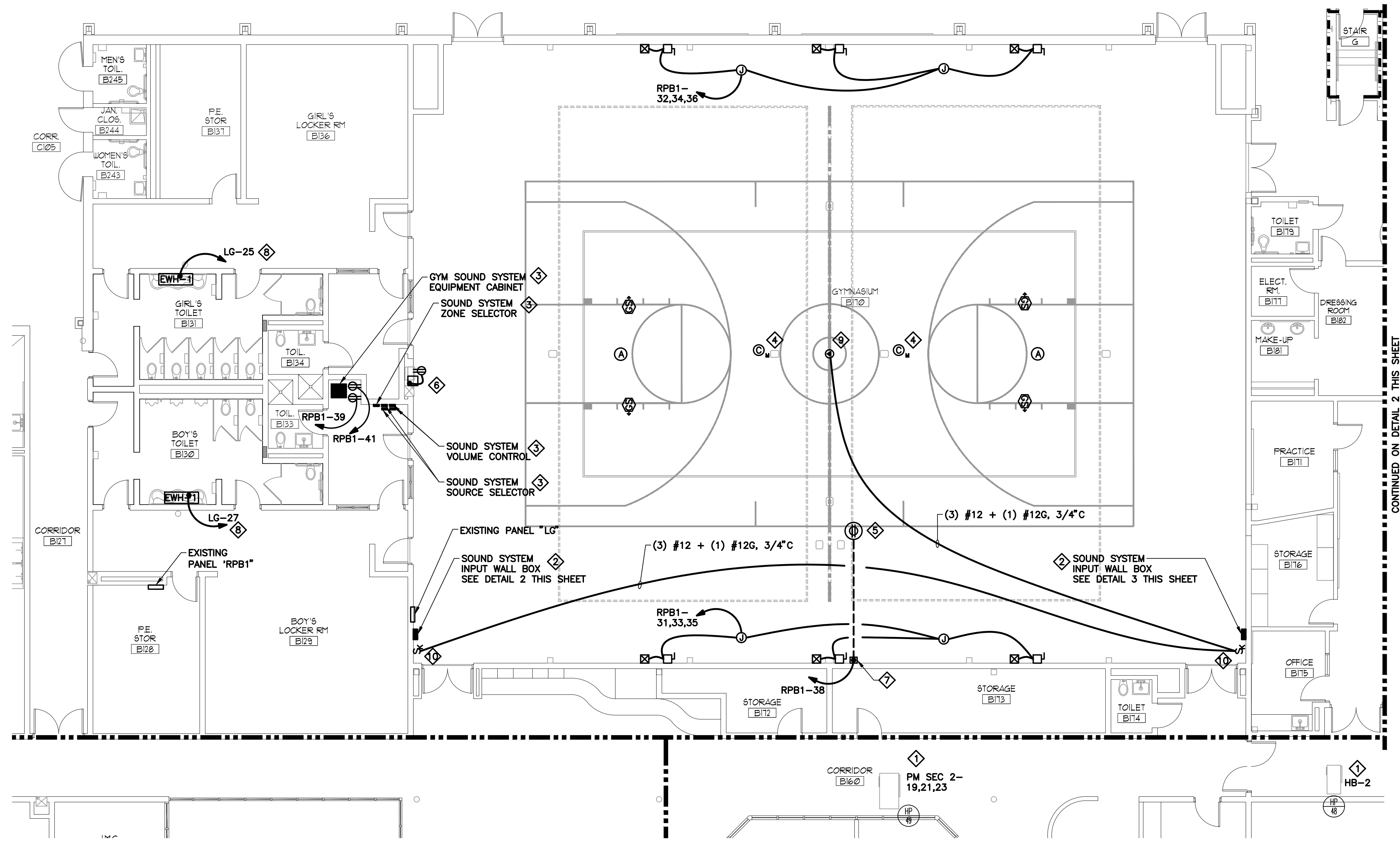
Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: DRH
Drawn By: NMR / JTM
Scale: AS NOTED
Drawing Name: PARTIAL BASEMENT & FIRST FLOOR PLANS: ELECTRICAL NEW WORK - BLOCKS A, B, C, & E - POWER & SYSTEMS
SHANER E.S.
Revisions: No. Date Description

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330
Project Number: 4937B
Project Date: 02.15.2019
Checked By: DRH
Drawn By: NMR / JTM
Scale: AS NOTED
Drawing Name: PARTIAL BASEMENT & FIRST FLOOR PLANS: ELECTRICAL NEW WORK - BLOCKS A, B, C, & E - POWER & SYSTEMS
SHANER E.S.
Revisions: No. Date Description

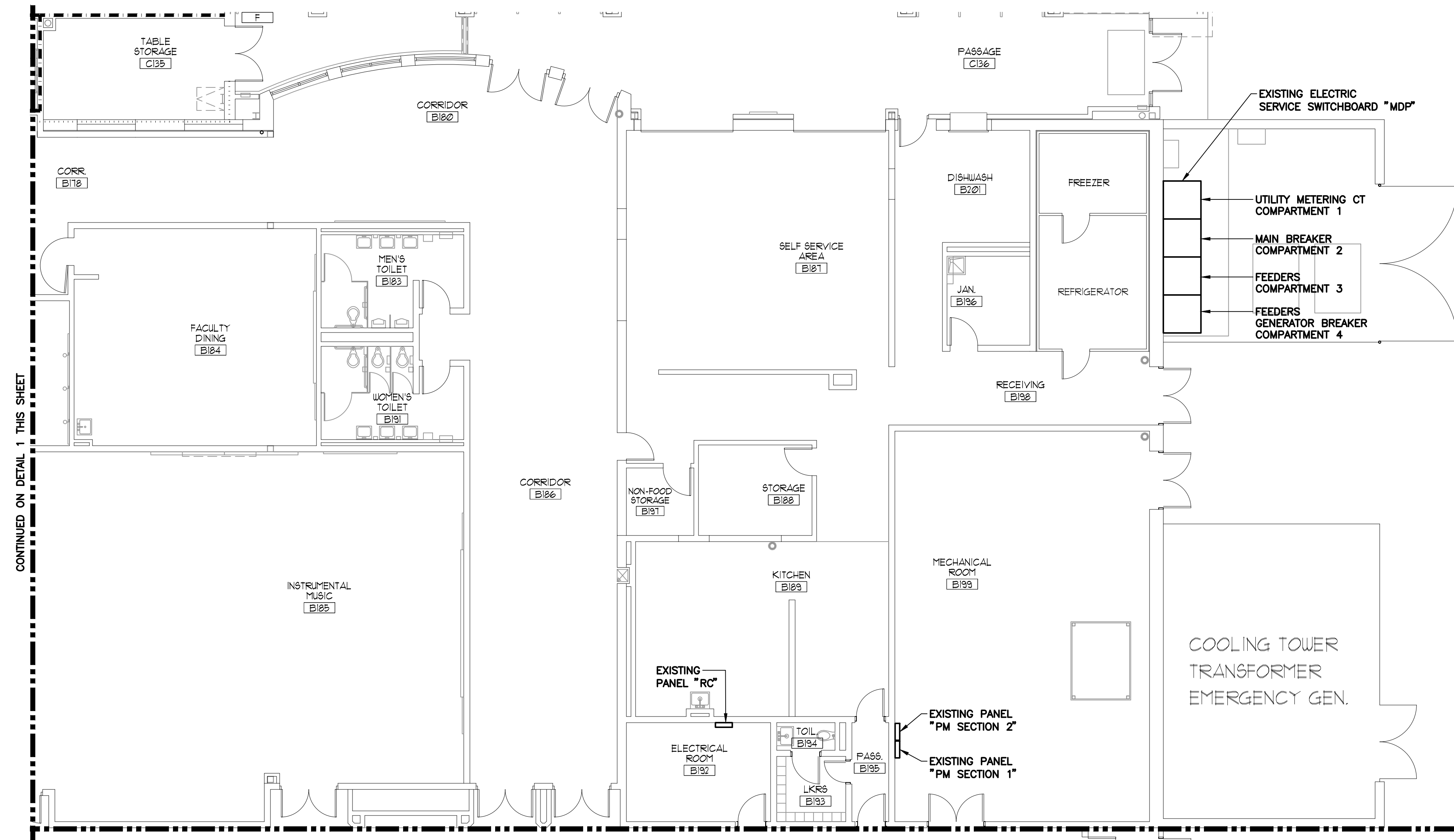
02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

FILE PATH: E:\Projects\2018\201804 - Issd - Joseph Shaner et renovations Drawings\Electrical\New Work - Power & Systems.dwg
JOB NO: 20180215 0447 PLT: 20190215 0524 PM PLOTTED BY: TML



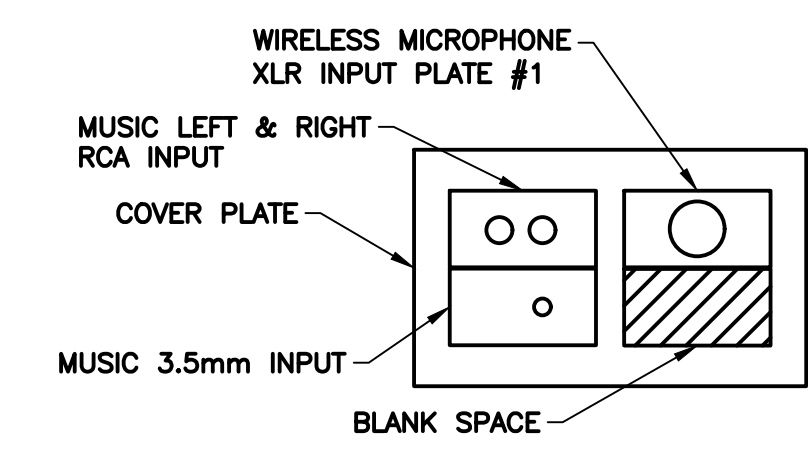
1
E201
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER – BLOCK A
SCALE: 1/8" = 1'-0"



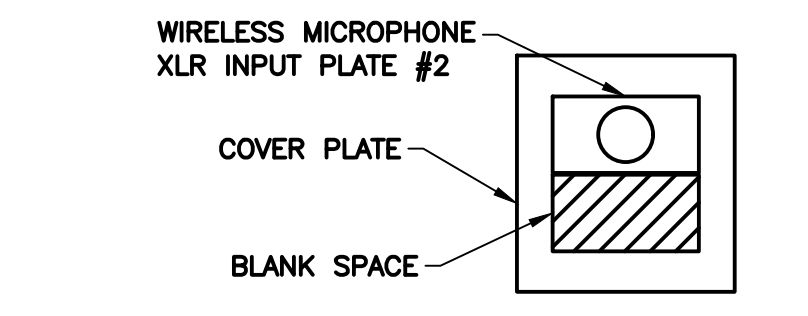
2
E201
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER – BLOCK A
SCALE: 1/8" = 1'-0"

NEW WORK NOTES:

- 1 INTERCEPT AND EXTEND THE EXISTING BRANCH CIRCUIT WIRING RETAINED DURING DEMOLITION TO THE NEW HVAC UNIT. EXISTING PANEL AND CIRCUIT NUMBERS SHOWN FOR REFERENCE.
- 2 FOR NEW DEVICES BELOW CEILINGS IN OCCUPIED SPACES USED FOR ATHLETIC ACTIVITIES (SUCH AS GYMNASIUMS) THAT ARE REQUIRED TO BE INSTALLED ON EXISTING WALLS, PROVIDE WIRING IN CONDUIT PAINTED TO MATCH THE WALL AND PROVIDE FITTED BACKBOXES (FITTED – COLOR AND SIZE MATCHED TO THE DIMENSIONS OF THE SOUND SYSTEM DEVICE. NON-FITTED BACKBOXES ARE NOT PERMITTED. PROVIDE WIRE PROTECTIVE ENCLOSURE OVER THE WALL MOUNTED DEVICE FOR PROTECTION. CONSULT WITH GYMNASIUM SOUND SYSTEM CONTRACTOR AND OWNER FOR EXACT LOCATION OF SOUND SYSTEM INPUTS PRIOR TO INSTALLATION.
- 3 SEE DETAIL 1/E500.
- 4 PROVIDE CARBON MONOXIDE DETECTOR SURFACE MOUNTED ON THE GYMNASIUM CEILING.
- 5 PROVIDE A RECESS FLUSH FLOOR MOUNTED OUTLET BOX SUITABLE FOR THE EXISTING FLOOR CONSTRUCTION WITH A BRASS COVERPLATE WITH SCREW-IN/OUT ACCESS COVERS TO ACCESS OUTLETS OF ONE DUPLEX RECEPTACLE AND ONE XLR MICROPHONE OUTLET PROVIDED WITH THE GYMNASIUM SOUND SYSTEM. COORDINATE THE EXACT LOCATION WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- 6 PROVIDE NEW RECEPTACLE FOR THE NEW ELECTRIC WATER COOLER EWC-1. INTERCEPT AND EXTEND BRANCH CIRCUIT WIRING. PRIOR TO INSTALLATION, VERIFY WHICH 20A CIRCUIT BREAKER IN PANEL "RC" FEEDS THE EXISTING RECEPTACLE AND REPLACE IT WITH A NEW 20A GFI BREAKER. COORDINATE EXACT LOCATION OF THE EWC-1 RECEPTACLE WITH THE HVAC CONTRACTOR.
- 7 PROVIDE A TWO CHANNEL METAL WALL-SURFACE MOUNTED RACEWAY (WIREMOLD OR EQUAL, PAINTED TO MATCH THE EXISTING WALL FINISH) EXTENDING FROM THE CEILING DOWN TO THE SEPARATE FLOOR CONDUITS FOR POWER AND FOR THE SOUND SYSTEM MICROPHONE CABLE.
- 8 COORDINATE THE EXACT LOCATION WITH THE PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
- 9 GENERAL CONTRACTOR TO PROVIDE NEW TWIST LOCK RECEPTACLE FOR THE DIVIDER CURTAIN TWIST LOCK PLUG. COORDINATE MOUNTING AND EXACT LOCATION WITH THE GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD.
- 10 GENERAL CONTRACTOR TO PROVIDE (2) KEY SWITCHES FOR THE DIVIDER CURTAIN. INSTALLATION AND WIRING OF THE SWITCHES BY ELECTRICAL CONTRACTOR. COORDINATE MOUNTING AND EXACT LOCATIONS WITH THE GENERAL CONTRACTOR.

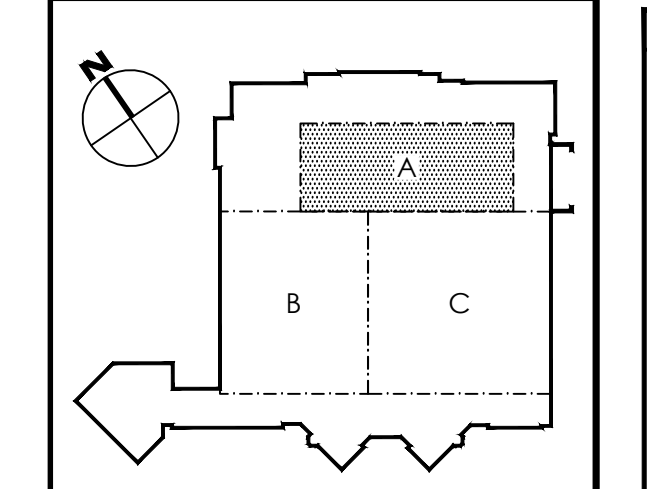


2
E201
SOUND SYSTEM INPUT DETAIL
SCALE: NONE



3
E201
SOUND SYSTEM INPUT DETAIL
SCALE: NONE

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-238-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com ghm@gillan-hartmann.com
Get. of Auth. #0427932400 G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

GFVHD architects planners
Fraytak Velisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 40 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330
Project Number: 4937C
Project Date: 02.15.2019
Checked By: DRH
Drawn By: NMR
Scale: AS NOTED
Drawing Name: PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK BLOCK A - POWER AND SYSTEMS
DAVIES M.S.

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number: 4937C
Project Date: 02.15.2019
Checked By: DRH
Drawn By: NMR
Scale: AS NOTED

Drawing Name: PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK BLOCK A - POWER AND SYSTEMS

DAVIES M.S.

No.	Date	Description

Drawing Number: E201

FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_MS_Renovations_Drawings\Electrical New Work_PWB & SYS_Domestic.dwg
 USER: SAGD 2018/02/15 04:01 PM PLOTTED: 2018/02/15 04:44 PM PLOTTED BY: TML
 © 2018 GILLAN & HARTMANN INC.



- NEW WORK NOTES:**
- 1. INTERCEPT AND EXTEND THE EXISTING BRANCH CIRCUIT WIRING RETAINED DURING DEMOLITION TO THE NEW HVAC UNIT. EXISTING PANEL AND CIRCUIT NUMBERS SHOWN FOR REFERENCE.
 - 2. PROVIDE NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD.
 - 3. PROVIDE NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD, FOR MOUNTING AND EXACT LOCATION SEE PLUMBING DETAIL 3/FOOT.

FVH D architects
 planners
 Fraytak Veisz Hopkins Dutrie P C

Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Williker Ave - Mont Clare - Pennsylvania 17453

Project Name:
 ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name:
 HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location:
 1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number:
 4937C

Project Date:
 02.15.2019

Checked By:
 DRH

Drawn By:
 NMR

Scale:
 AS NOTED

Drawing Name:
 PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK BLOCK B - POWER AND SYSTEMS

DAVIES M.S.

Revisions:
 No. Date Description

Drawing Number:
E202

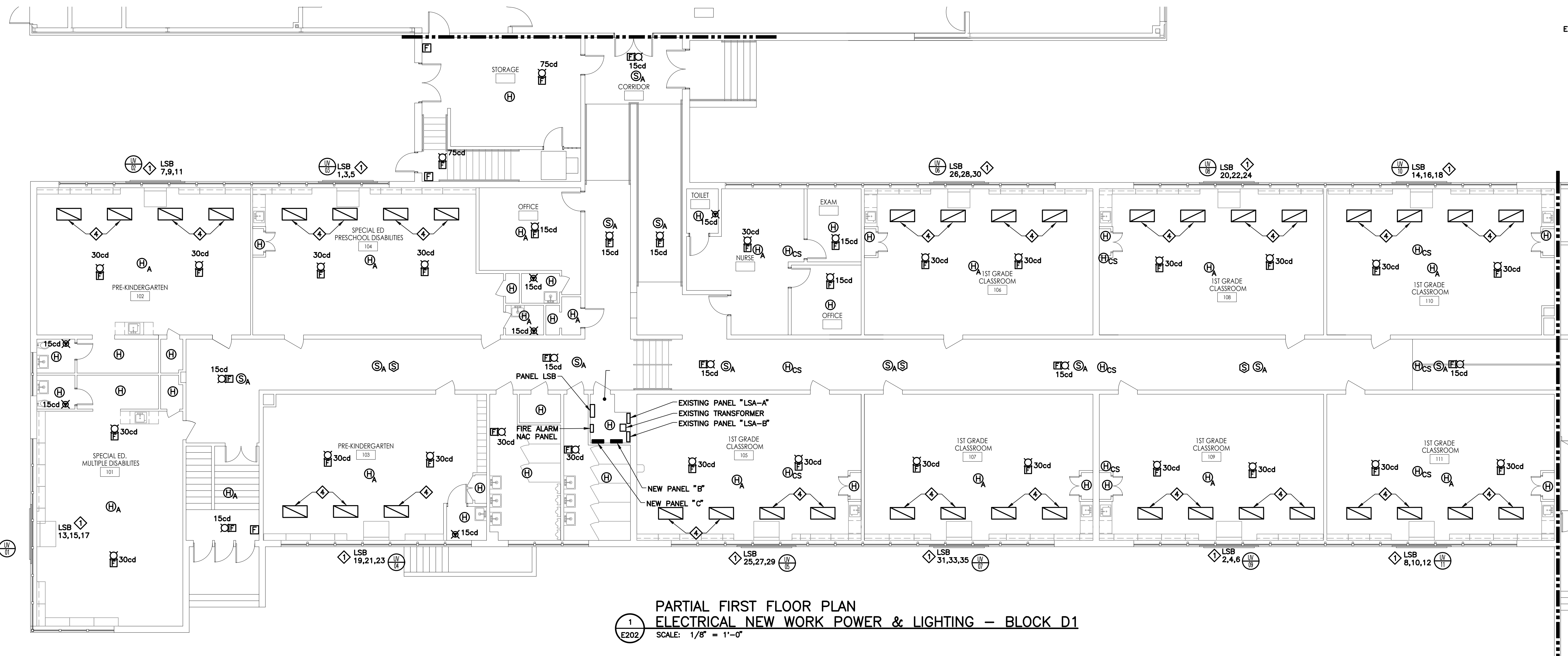
1
 E202
 PARTIAL FIRST FLOOR PLAN
 ELECTRICAL NEW WORK POWER - BLOCK B
 SCALE: 1/8" = 1'-0"

02/15/2019
 ISSUED FOR BID

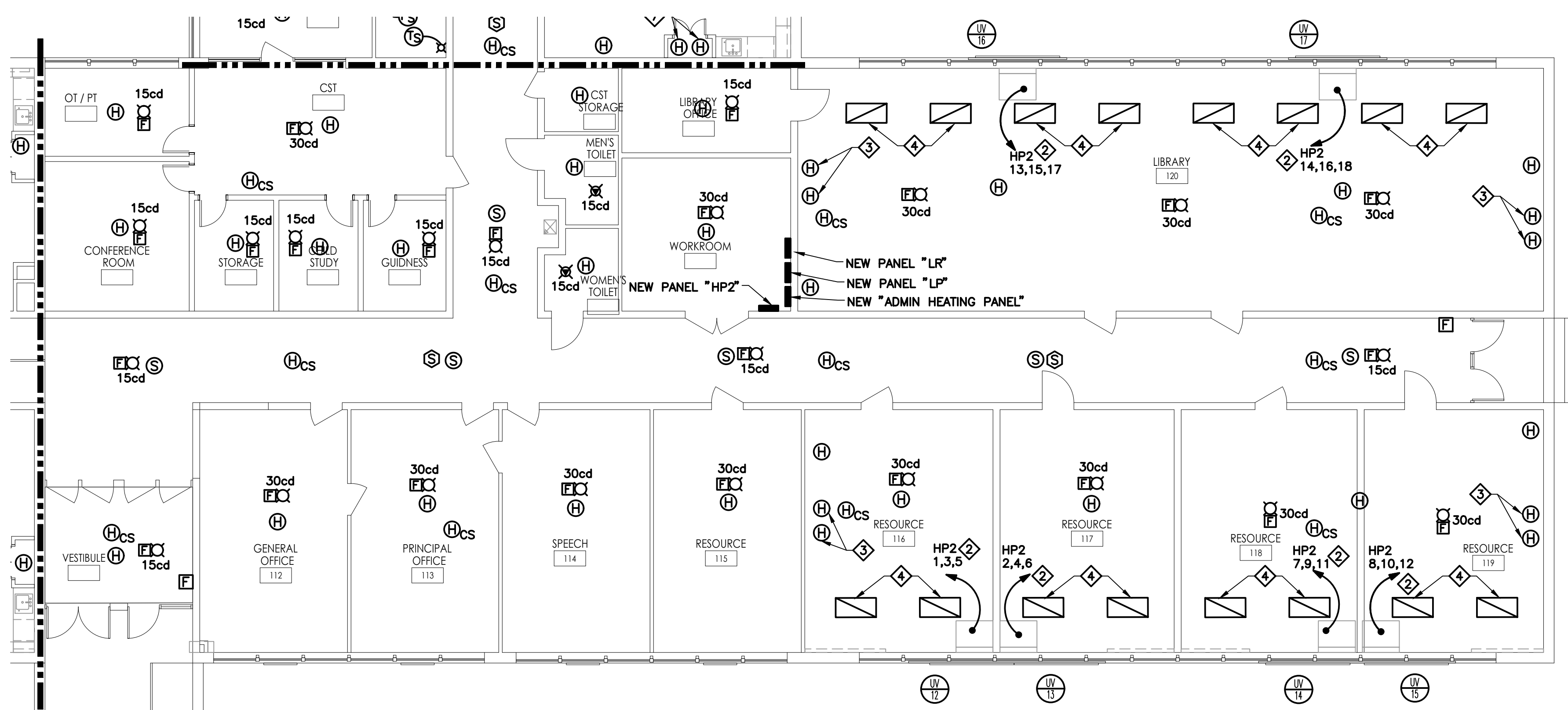
G Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL
 CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghmail@gillan-hartmann.com
 Cert. of Auth. #240427932400 G&H Project No. 2018-205

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

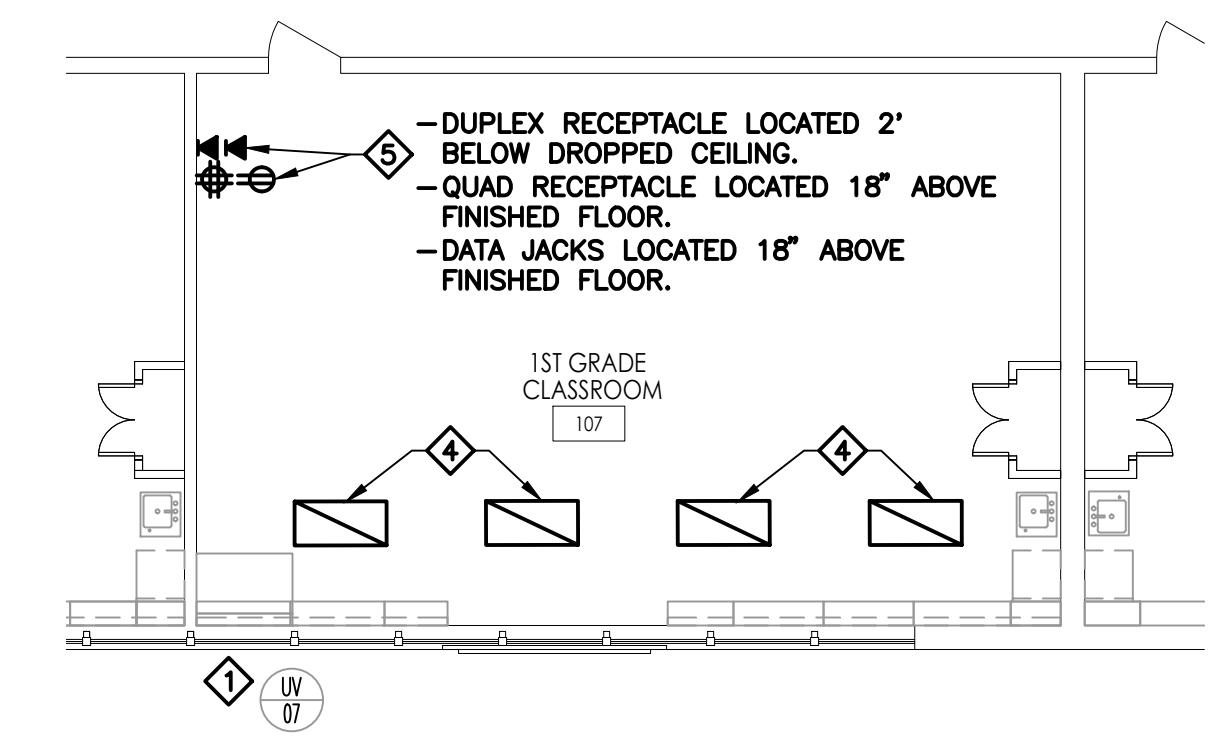
FILE PATH: C:\projects\2018\0215\HSD_Mills_Davies MS Renovations Drawings\Electrical New Work Power & S/S Domestick
 LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML
 © 2018 GILLAN & HARTMANN INC.



1
E202
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER & LIGHTING - BLOCK D1
SCALE: 1/8" = 1'-0"



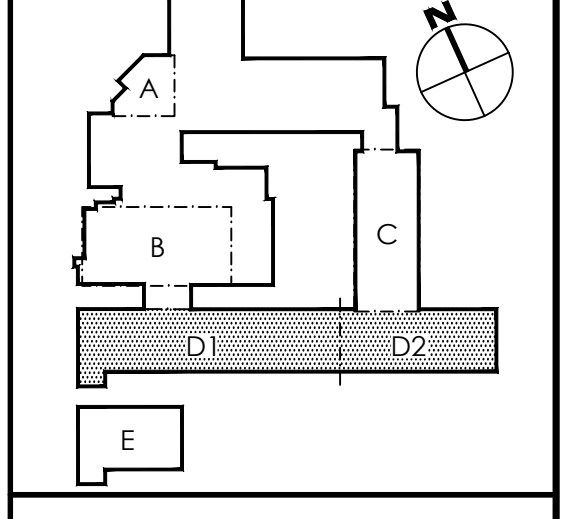
2
E202
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER & LIGHTING - BLOCK D2
SCALE: 1/8" = 1'-0"



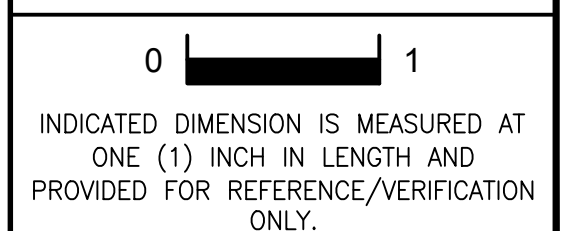
3
E202
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK - CORNER UV INSTALLATION
SCALE: 1/8" = 1'-0"

- NEW WORK NOTES:**
- ◆ INTERCEPT AND EXTEND THE EXISTING BRANCH CIRCUIT WIRING RETAINED DURING DEMOLITION TO THE NEW HVAC UNIT. EXISTING PANEL AND CIRCUIT NUMBERS SHOWN FOR REFERENCE.
 - ◆ PROVIDE NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD.
 - ◆ PROVIDE HEAT DETECTORS IN CLOSETS ABOVE AND BELOW.
 - ◆ REINSTALL AND RECONNECT THE LIGHT FIXTURE SHOWN ON THE REMOVAL PLAN. INTERCEPT AND EXTEND THE EXISTING WIRING TO THE NEW LOCATION. COORDINATE LIGHT FIXTURE LOCATIONS WITH THE NEW HVAC DUCTWORK.
 - ◆ RELOCATE THE EXISTING OUTLETS SHOWN REMOVED ON DETAIL 3/E102 TO THIS NEW TEACHING STATION LOCATION INDICATED. PROVIDE NEW RECEPTACLES TO REPLACE EXISTING RECEPTACLES REMOVED ON DETAIL 3/E102. INTERCEPT AND EXTEND THE EXISTING BRANCH CIRCUIT WIRING. RELOCATE THE EXISTING DATA CABLE. PROVIDE NEW DATA JACKS AND PUNCH-DOWN THE EXISTING DATA CABLES TO THE NEW JACKS. PROVIDE NEW TWO-CHANNEL (POWER & DATA) SURFACE MOUNTED/WIREMOLD RACEWAY FROM 18" ABOVE THE FINISHED FLOOR TO ABOVE THE DROPPED CEILING.

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION



- NOTES:**
1. THIS PLAN IS TYPICAL FOR CORNER UNIT VENTILATOR INSTALLATIONS. REFER TO THE ARCHITECTURAL DOCUMENTS FOR UNIT VENTILATOR AND TEACHING STATION LOCATIONS.
 2. REFER TO 3/E201, 1/E202, & 2/E202 FOR PANEL BRANCH CIRCUIT DESIGNATIONS.
 3. REFER TO NEW WORK FLOOR PLANS FOR FIRE ALARM REPLACEMENT WORK.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE
DATE: NO. 24GE04470000

FVHHD architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Williker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
NO. 214866001 PA-00020199
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866001 PA-00020204
GEORGE R. DUTRIE, JR., AIA, PP
NO. 214866001 PA-00020200

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B

Project Date
02.15.2019

Checked By
DRH

Drawn By
NMR / JTM

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLANS: ELECTRICAL NEW WORK - BLOCKS D1 & D2 - POWER & SYSTEMS

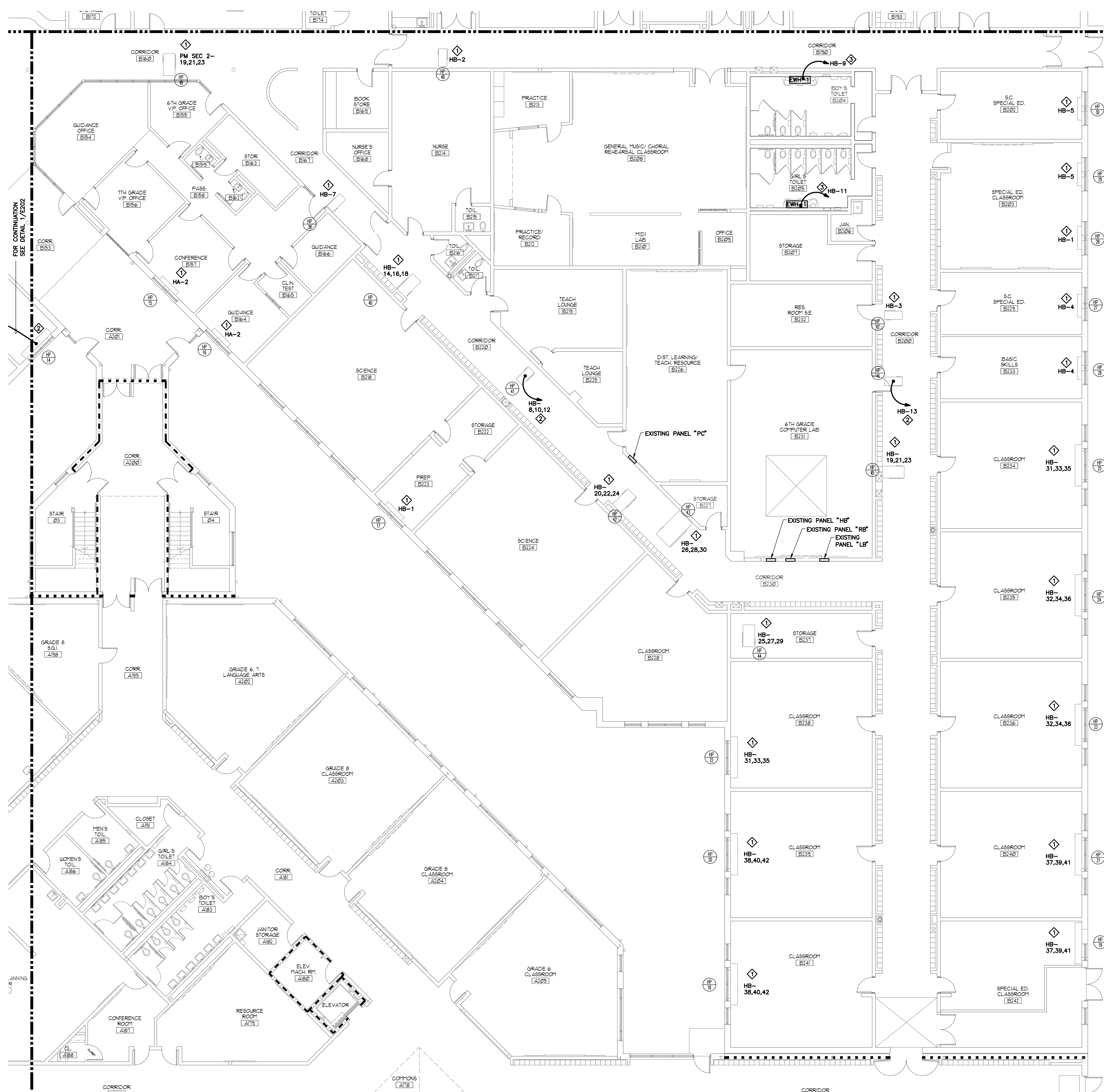
SHANER E.S.

Revisions	No.	Date	Description

Drawing Number

E202

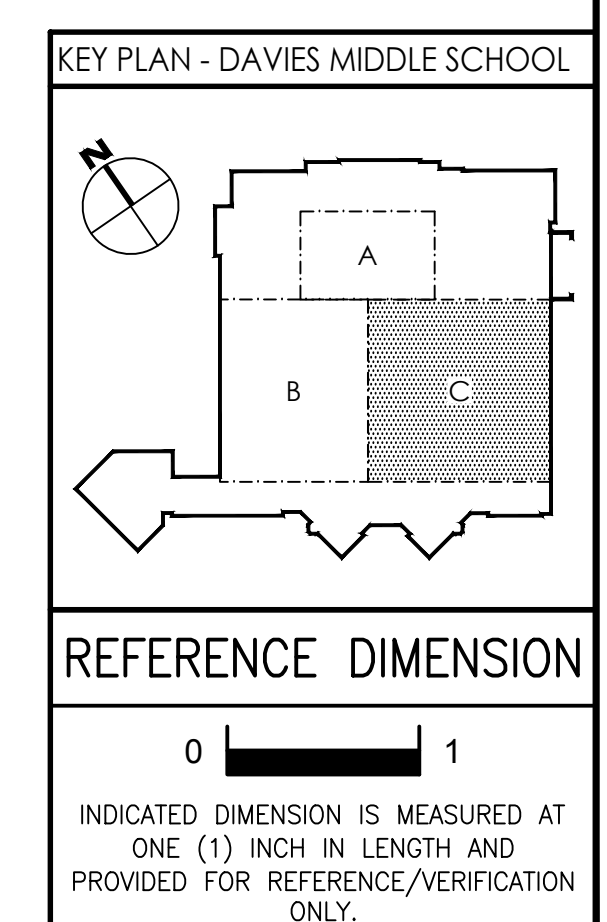
FILE PATH: E:\Projects\2018\20180204_1515 Lower Ferry Road - Trenton - New Jersey - Alterations and Renovations - Shaner Elementary - Electrical - New Work - Power & Systems - E202.dwg
 USER: SMC: 20180215 04:42 PM PLOTTED BY: TML
 DATE: 20180215 05:24 PM



NEW WORK NOTES:

- ◇ INTERCEPT AND EXTEND THE EXISTING BRANCH CIRCUIT WIRING RETAINED DURING DEMOLITION TO THE NEW HVAC UNIT. EXISTING PANEL AND CIRCUIT NUMBERS SHOWN FOR REFERENCE.
- ◇ PROVIDE NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD.
- ◇ PROVIDE NEW BRANCH CIRCUIT WIRING TO THE INDICATED PANELBOARD, FOR MOUNTING AND EXACT LOCATION SEE PLUMBING DETAIL 3/P001.

1
PARTIAL FIRST FLOOR PLAN
ELECTRICAL NEW WORK POWER -- BLOCK C
SCALE: 1/8" = 1'-0"



Gillian & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillian-hartmann.com | ghillan@gillian-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSEA
NO. 214866001 PA 80628789
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866001 PA 80628789
GEORGE R. DUTHIE JR., AIA, PP
NO. 214866001 PA 80628789

GFVHD architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Williker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR., MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
DRH

Drawn By
NMR

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: ELECTRICAL NEW WORK BLOCK C - POWER AND SYSTEMS

DAVIES M.S.

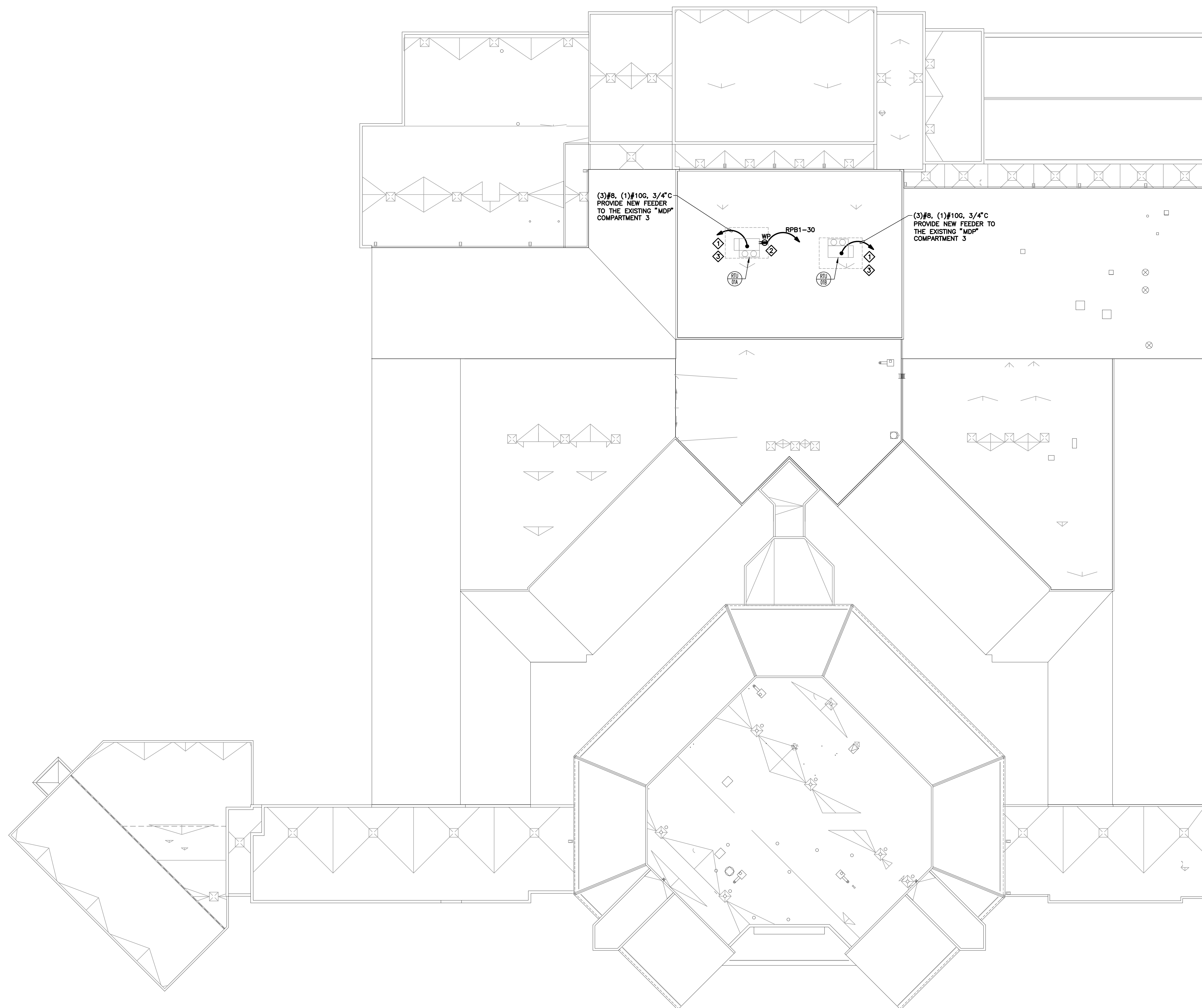
Revisions		
No.	Date	Description

Drawing Number
E203

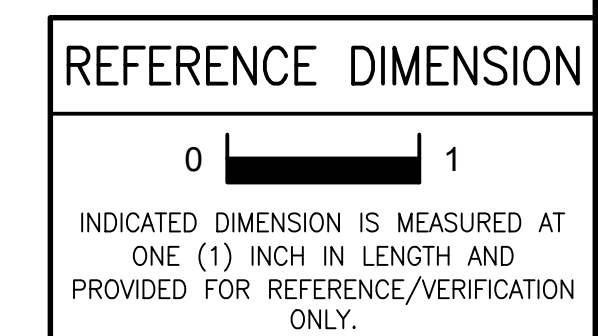
FILE PATH: C:\projects\2018\02\0205_HMSD_Montam_Davies MS Renovations Drawings\Electrical New Work_PWB & SYS_Domesding
 LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML

NEW WORK NOTES:

- ◇ REMOVE EXISTING 40A-3P SPARE BREAKER AND ASSOCIATED BUSBAR CONNECTORS IN THE EXISTING SWITCHBOARD "MDP" COMPARTMENT 3 (LOCATION SHOWN ON 2/E201). PROVIDE A NEW 50A-3-POLE CIRCUIT BREAKER IN THE VACATED SPACE WITH ALL REQUIRED BUSBAR CONNECTORS AND SUPPORT HARDWARE FOR A COMPLETE AND FUNCTIONAL CIRCUIT BREAKER INSTALLATION THAT MAINTAINS THE EXISTING 100KAC INTERRUPTING RATING OF SWITCHBOARD "MDP."
- ◇ COORDINATE WITH THE HVAC CONTRACTOR AND PROVIDE ALL REQUIRED MOUNTING HARDWARE TO MOUNT THE RECEPTACLE TO THE HVAC EQUIPMENT.
- ◇ REINSTALL AND RECONNECT THE SOLAR PANELS REMOVED (TO MATCH THE ORIGINAL INSTALLATION) TO ACCOMMODATE THE RTU REMOVAL AND INSTALLATION WORK BY THE HVAC CONTRACTOR.



1
E221 ELECTRICAL NEW WORK — ROOF PLAN
SCALE: 20' = 1'-0"



Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1583 302-654-5959
www.gillan-hartmann.com | ghmail@gillan-hartmann.com
Cvt. of Auth. #24027932400 G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
NJ 2142666001 PA 80620198
WILLIAM D. HOPKINS III, AIA, LEED AP
NJ 2142666001 PA 80620204
GEORGE R. DUTHIE, JR., AIA, PP
NJ 2142667000

FVH D architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Willbaker Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
DRH

Drawn By
NMR

Scale
AS NOTED

Drawing Name
ROOF PLAN: ELECTRICAL NEW WORK

DAVIES M.S.

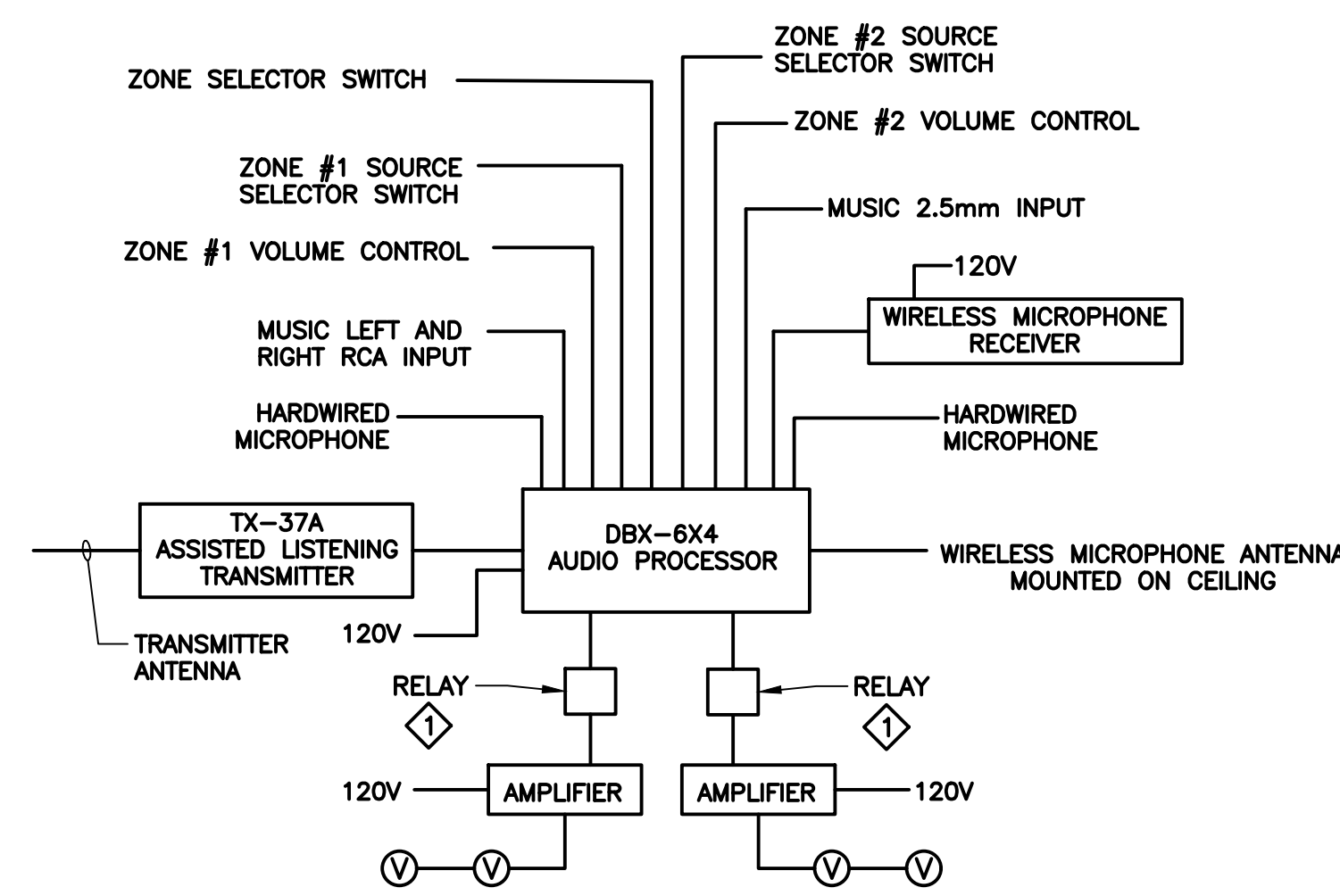
Revisions		
No.	Date	Description

Drawing Number
E221

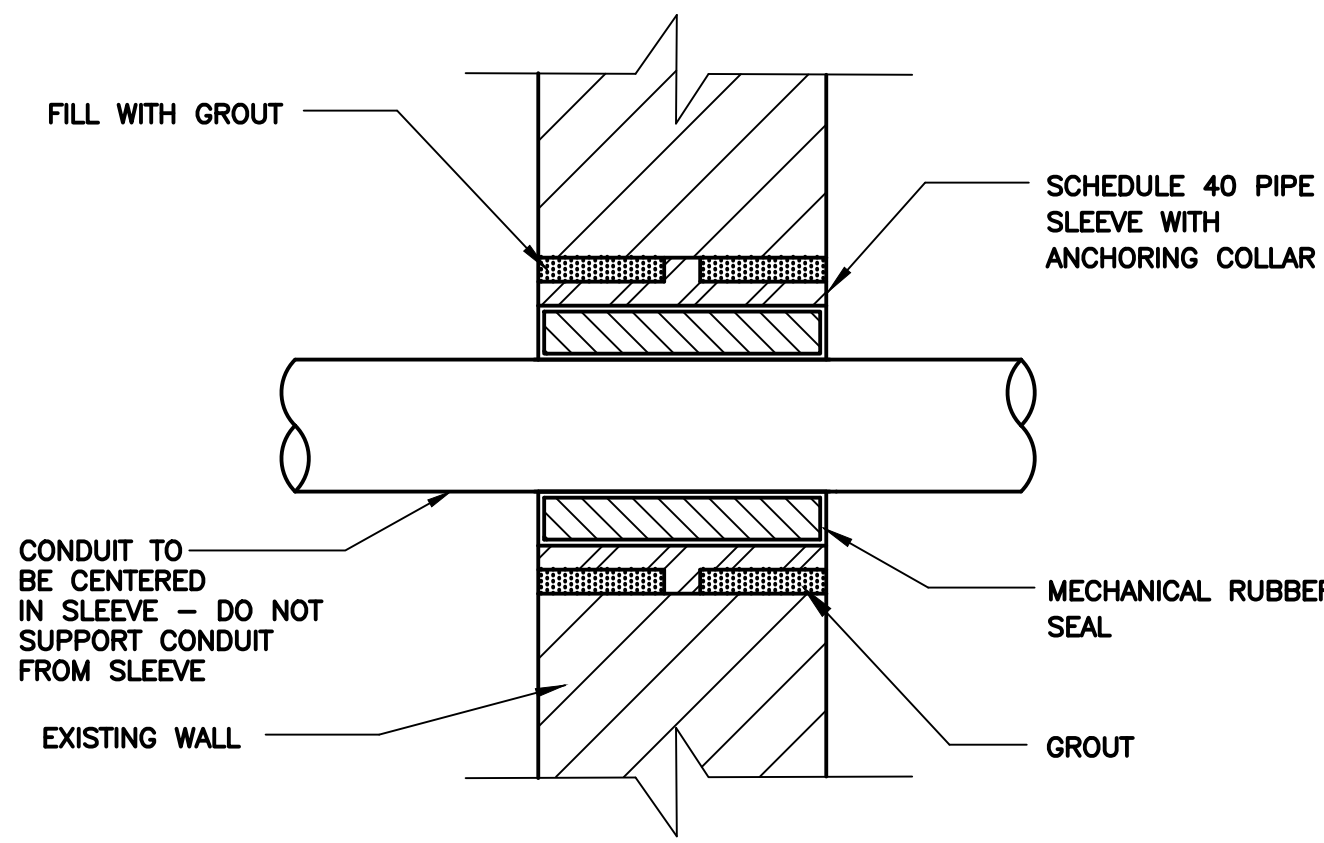
FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_MS_Renovations_Drawings\Electrical New Work_Roof_Davies.dwg
LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML

SHEET NOTES:

◇ PRIORITY OVERRIDE RELAY WIRED IN THE SPEAKER AMPLIFIER CIRCUIT BY OTHERS.

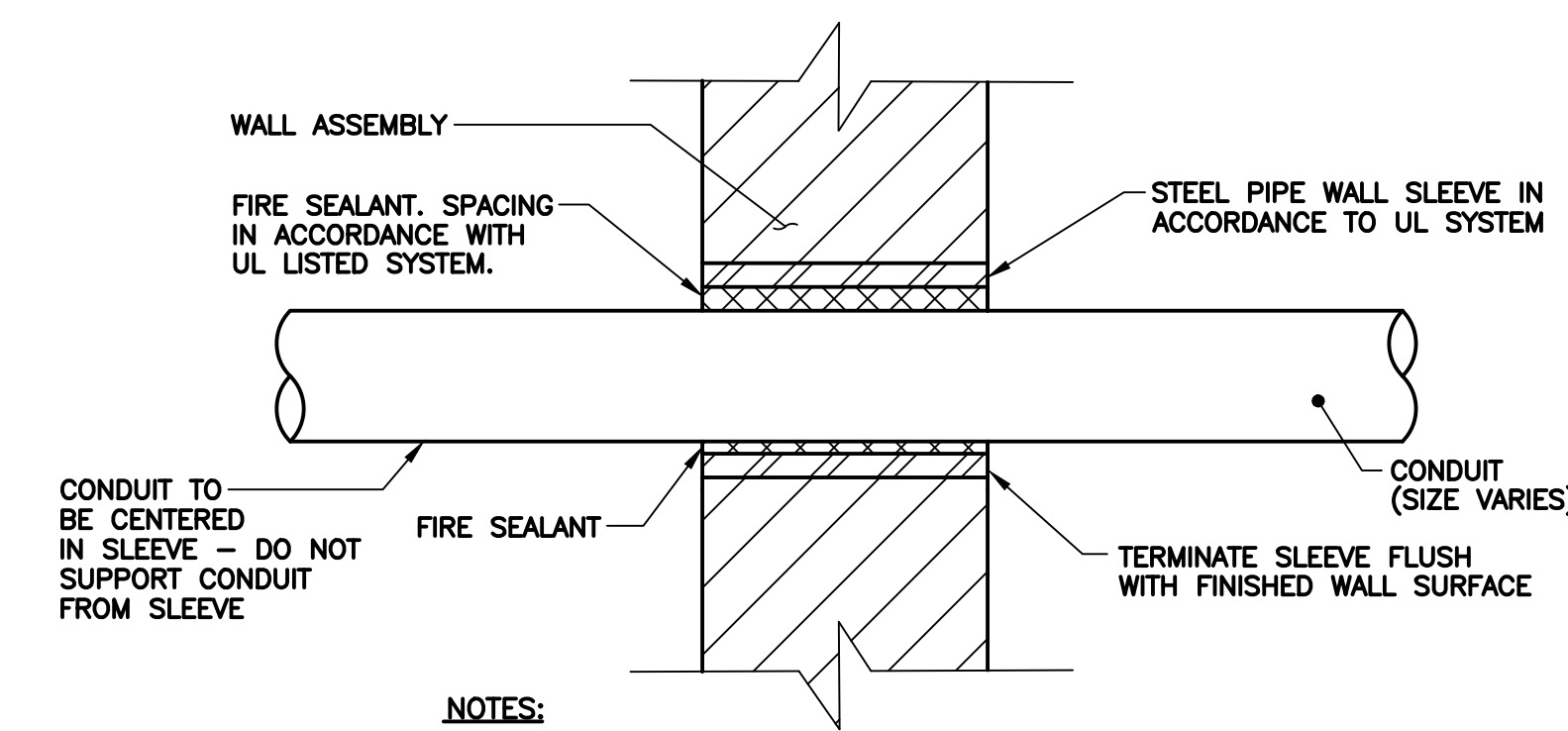


1 GYMNASIUM SOUND SYSTEM RISER DIAGRAM
SCALE: NONE



NOTE: ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.

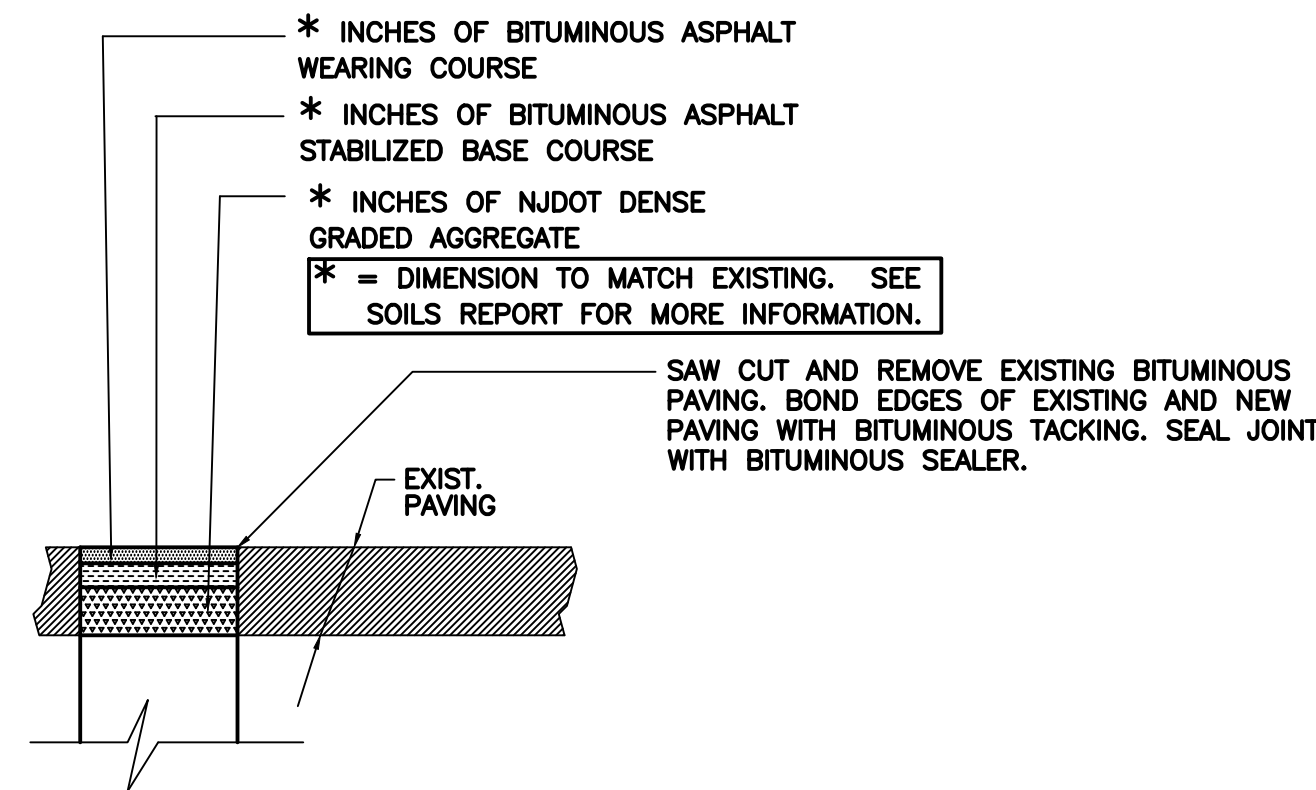
2 DETAIL - CONDUIT THRU EXTERIOR WALL
NO SCALE



NOTES:

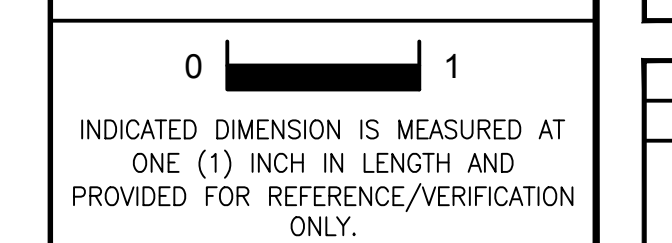
1. PROVIDE UL LISTED FIRE RATED THRU WALL SYSTEM IN ACCORDANCE WITH WALL TYPE, AND SCHEDULED CONDUIT AND INSULATION.
2. ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.
3. FOR NON-FIRE RATED WALL ASSEMBLIES: UTILIZE STANDARD CAULK IN LIEU OF FIRE CAULK.

3 DETAIL - TYPICAL CONDUIT THRU WALL
NO SCALE



4 BITUMINOUS/ASPHALT PATCHING DETAIL
NO SCALE

REFERENCE DIMENSION



Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

GFVH D architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
140 Wiltshire Ave - Mont Clair - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
NO. 2148664001 PA 80020198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2148664001 PA 80020204
GEORGE R. DUTRIE, JR., AIA, PP
NO. 2148664001 PA 80020204

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C
Project Date
02.15.2019
Checked By
DRH
Drawn By
NMR
Scale
AS NOTED

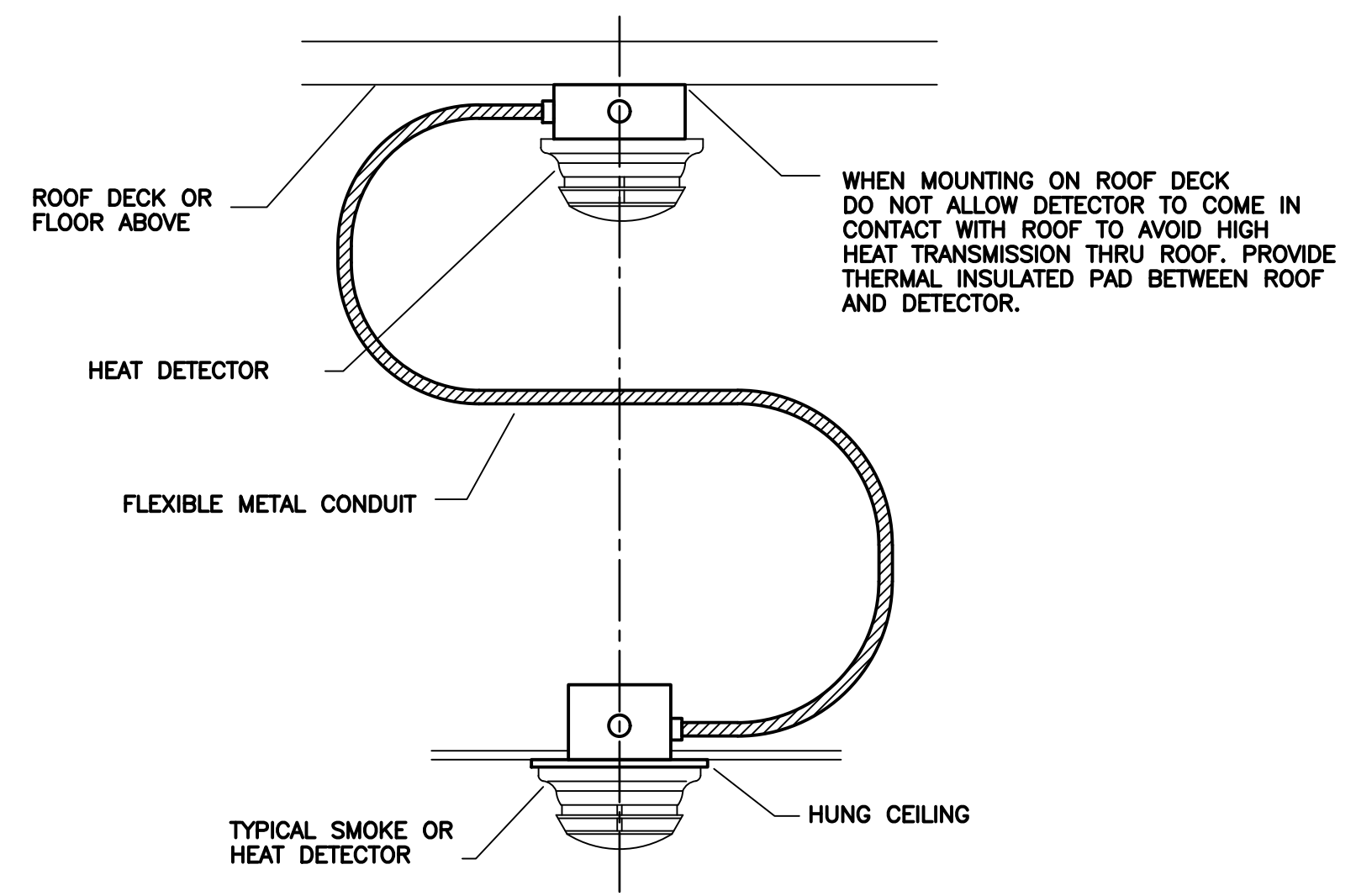
Drawing Name
ELECTRICAL DETAILS

DAVIES M.S.

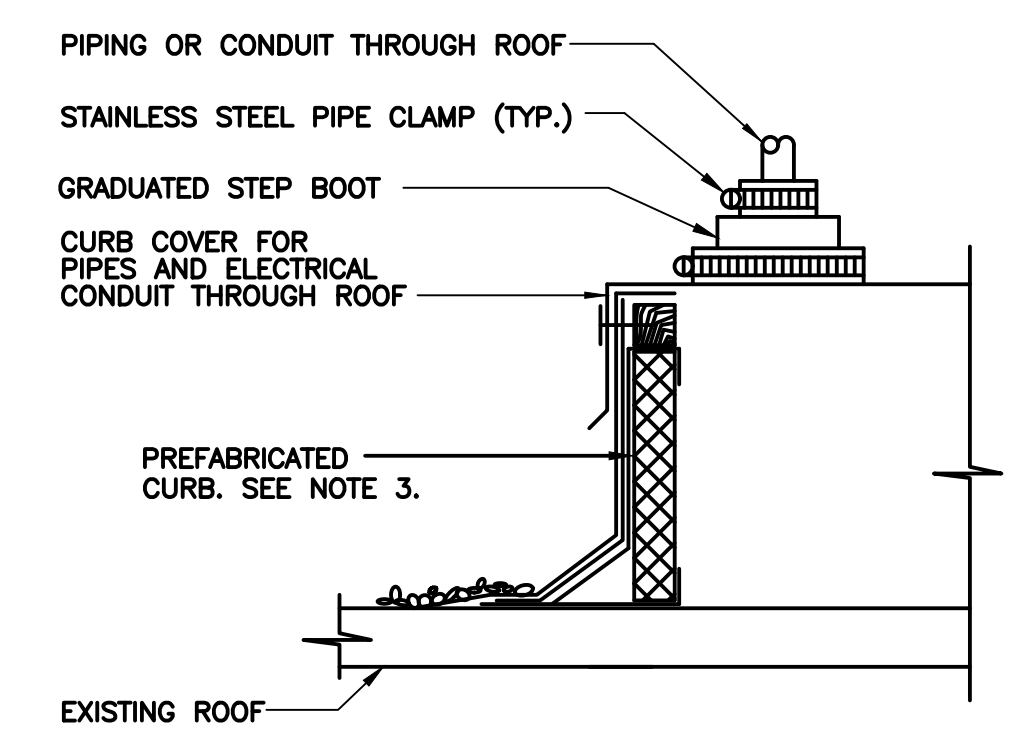
Revisions		
No.	Date	Description

Drawing Number
E500

FILE PATH: C:\projects\2018\2018205_HTSO_Milton_Davies MS Renovations Drawings\Electrical Details_Davies.dwg
LAST SAVED: 2019/02/15 04:01 PM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML

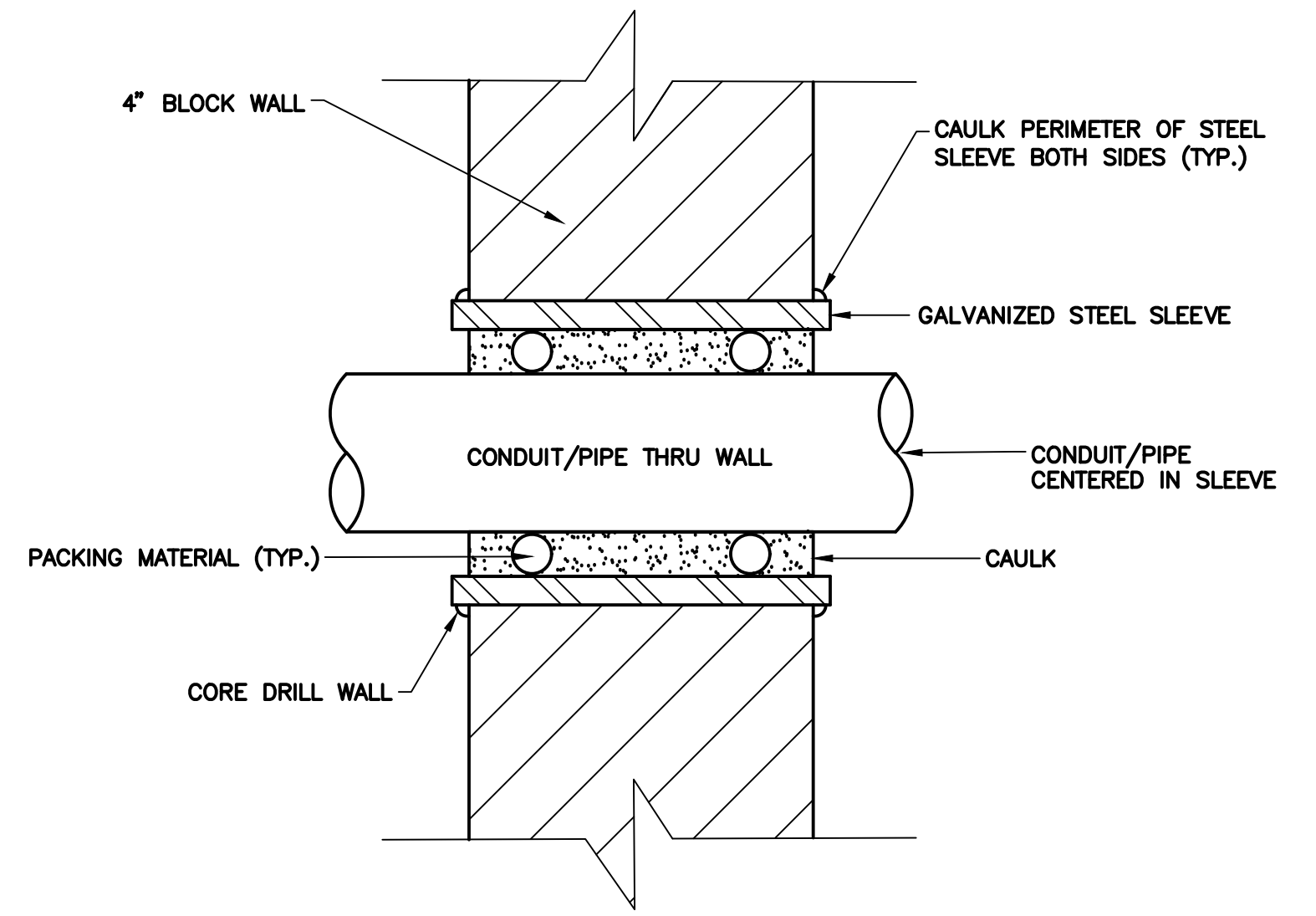


1
E500
TYPICAL FIRE/SMOKE DETECTOR MOUNTING ON HUNG CEILING
NO SCALE
NOTE: SEE GENERAL NOTE 10.

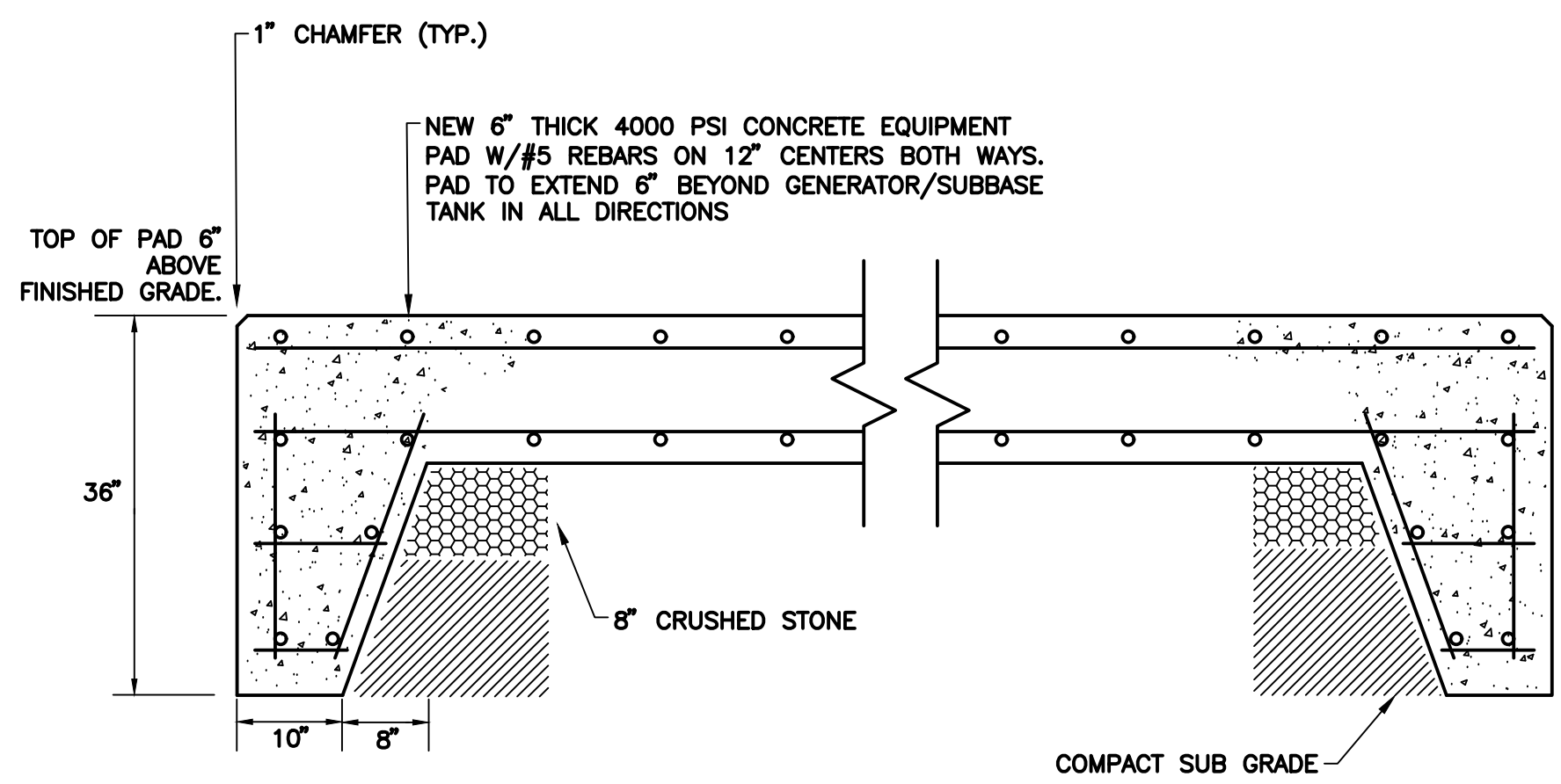


2
E500
DETAIL - ELECTRICAL RACEWAY CURB ASSEMBLY & FLASHING
NO SCALE

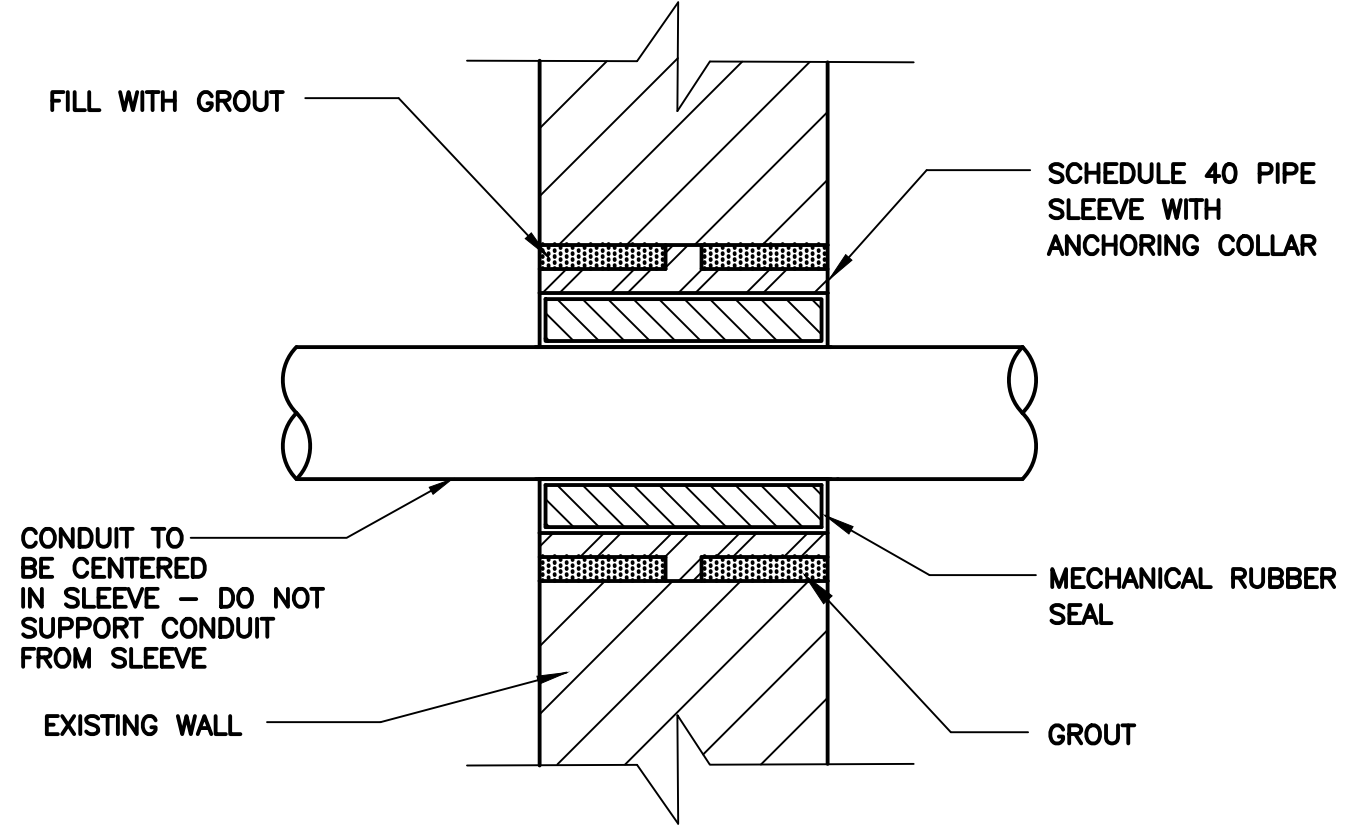
- NOTES:
1. PROVIDE CURB IN ACCORDANCE TO ROOF SYSTEM.
2. PROVIDE INSULATED ROOF CURB.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.



3
E500
DETAIL - CONDUIT/PIPE THRU INTERIOR BLOCK WALLS
NO SCALE

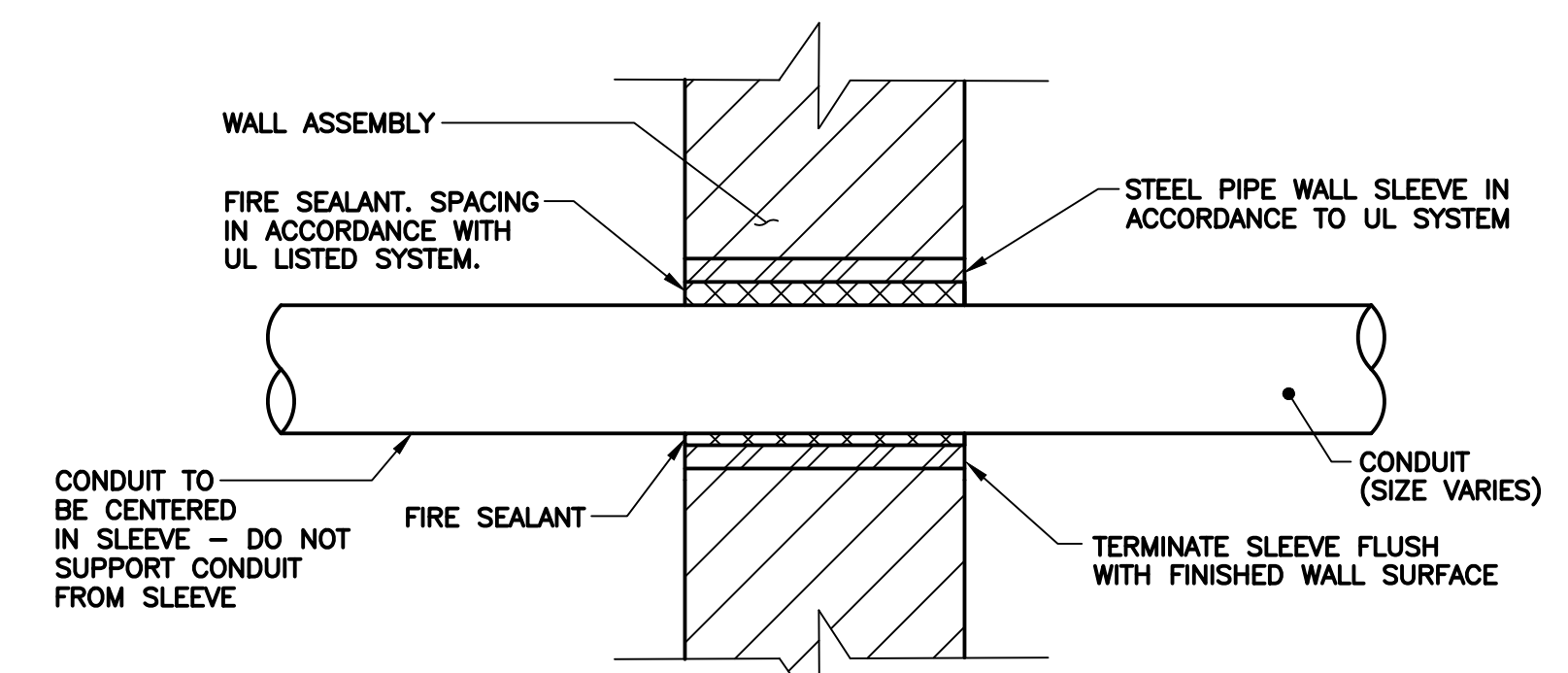


4
E500
DETAIL - GENERATOR PAD
NO SCALE



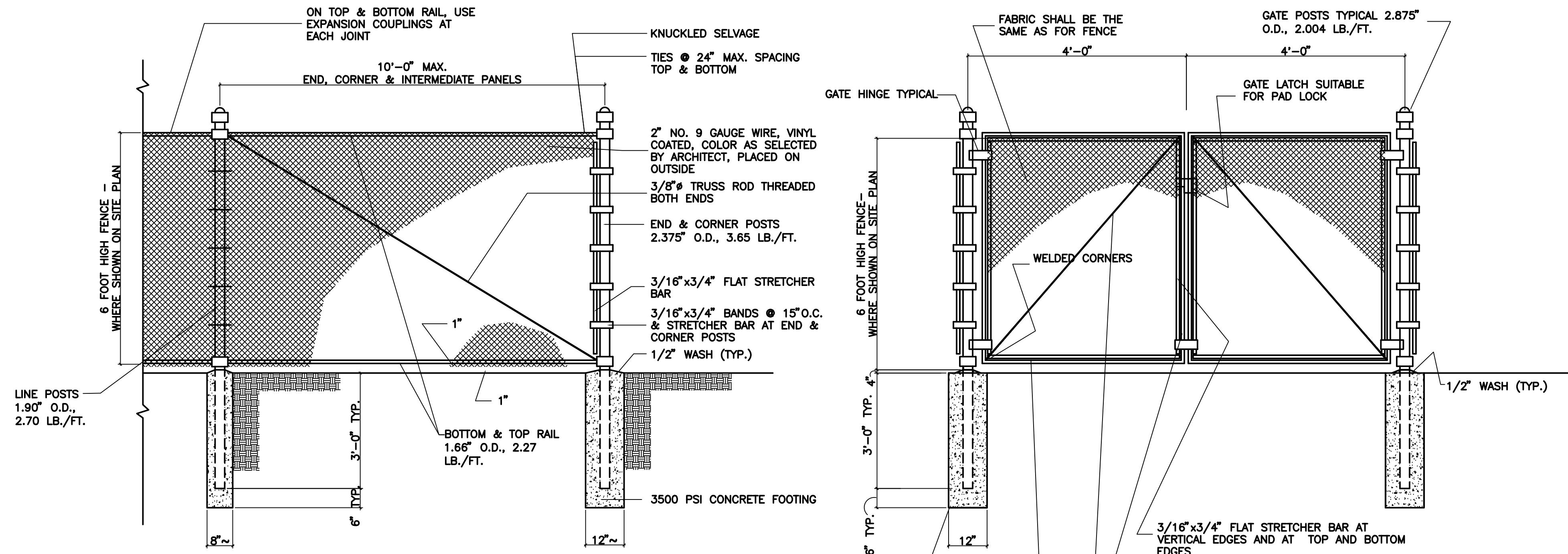
5
E500
DETAIL - CONDUIT THRU EXTERIOR WALL
NO SCALE

NOTE: ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.



6
E500
DETAIL - TYPICAL CONDUIT THRU WALL
NO SCALE

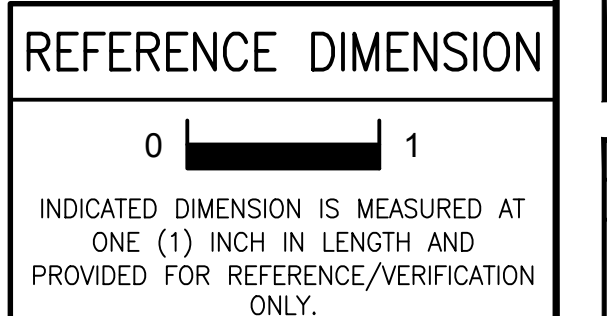
- NOTES:
1. PROVIDE UL LISTED FIRE RATED THRU WALL SYSTEM IN ACCORDANCE WITH WALL TYPE, AND SCHEDULED CONDUIT AND INSULATION.
2. ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.
3. FOR NON-FIRE RATED WALL ASSEMBLIES: UTILIZE STANDARD CAULK IN LIEU OF FIRE CAULK.



7
E500
EXTERIOR FENCE
NO SCALE

NOTE: COLOR AND COATING OF ALL POSTS, RAILS AND FITTINGS SHALL BE AS SELECTED BY THE ARCHITECT.
NOTE: SEE SPECIFICATION Q2830 FOR REQUIREMENTS.

NOTE: COLOR AND COATING OF ALL POSTS, RAILS AND FITTINGS SHALL BE AS SELECTED BY THE ARCHITECT.



Gillian & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillian-hartmann.com | ghmail@gillian-hartmann.com
Cet. of Auth. #2427932400 G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE. DATE: NO. 24GE04470000

FVH D architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clear - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSEA
NO. 2142666001 PA-80620789
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2142666001 PA-80620789
GEORGE R. DUTRIE, JR., AIA, PP
NO. 2142666001 PA-80620789

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
DRH
Drawn By
NMR / JTM
Scale
AS NOTED

Drawing Name
ELECTRICAL DETAILS

SHANER E.S.

No.	Date	Description

Drawing Number
E500

FILE PATH: E:\Projects\2018\201804_HTSO_Joseph_Shaner_ES_Alterations_Drawings\Electrical Details_Shaner.dwg
LAST SAVE: 2019/02/15 04:58 PM PLOTTED: 2019/02/15 05:24 PM PLOTTED BY: TML

EXISTING PANELBOARD AT DAVIES MIDDLE SCHOOL										GENERAL PANEL DATA										AIC: 14KAIC	
										HA										MOUNT: FLUSH	
										VOLT: 480/277V, 3PH, 4W											
										BUS: 225A											
LOAD SERVED										PHASE LOAD										MAIN LUGS ONLY	
COND	GRD	WIRE SIZE	NO.	KVA	BKR SIZE	CKT NO.	A	B	C	NO.	SIZE	KVA	COND	GRD	WIRE SIZE	NO.	LOAD SERVED				
1			#12	2	2.6	20	1	5.2			2	20	2.6				HP-15, HP-16 CONF. B157 & SECURITY B164				
1			#12	2	1.3	20	3	4.3			4	20	3.0				EXISTING ELEC. BASE HTR. SEC. W/ATING B154				
1			#12	2	3.0	20	5		13.0	6	60	10.0	3/4"	#8	#6	2	EW-11 BOYS BATHROOM B108				
1			#12	2	4.1	20	7	5.4			8	20	1.3				HP-35 CORRIDOR B110				
2,3			#12	2	10.0	60	11		13.2	12	20	3.2					HP-33, HP-34 CORRIDOR B110				
			#12	2	1.0	20	15			14	25	2.3					HP-5, HP-36				
			#12	2	1.0	20	17		3.3	16	3P	2.3	3/4"	#10	#10	3	CORRIDOR B148 & BASIC B106				
			#12	2	1.0	20	19		3.6	18	3P	1.3					HP-37				
			#12	2	2.3	25	21		3.6	22	20	1.3					CORRIDOR B148				
			#12	2	2.7	27	23		7.7	24	3P	1.3					EXISTING ELECTRIC HEAT COIL				
			#12	2	2.7	27	25		7.7	26	30	5.0					SCIENCE ROOM B145				
			#12	2	2.7	27	27		7.7	28	30	5.0					EXISTING ELECTRIC HEAT COIL				
			#12	2	2.7	27	29		7.7	30	30	5.0					SCIENCE ROOM B149				
			#12	2	2.7	27	31		7.7	32	30	5.0					HP-2, HP-4				
			#12	2	2.7	27	33		7.7	34	30	5.0					CLASS ROOM B102, B103				
			#12	2	2.7	27	35		7.7	36	30	5.0									
			#12	2	2.7	27	37		7.7	38	30	2.7									
			#12	2	2.7	27	39		5.4	40	30	2.7									
			#12	2	2.7	27	41		5.4	42	3P	2.7									
LOCATION: FIRST FLOOR, CORRIDOR B111										40.3 39.2 53.9 PHASE KVA											
										133.4 TOTAL KVA											
NOTES																					
1. UTILIZE EXISTING BRANCH CIRCUIT WIRING AND EXISTING CIRCUIT BREAKER																					
2. REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW WIRING AND PROVIDE NEW CIRCUIT BREAKER																					
3. PROVIDE 60A BREAKER WITH LOCKABLE DEVICE KIT																					

EXISTING PANELBOARD AT DAVIES MIDDLE SCHOOL										GENERAL PANEL DATA										AIC: 14KAIC	
										HB										MOUNT: FLUSH	
										VOLT: 480/277V, 3PH, 4W											
										BUS: 225A											
LOAD SERVED										PHASE LOAD										MAIN LUGS ONLY	
COND	GRD	WIRE SIZE	NO.	KVA	BKR SIZE	CKT NO.	A	B	C	NO.	SIZE	KVA	COND	GRD	WIRE SIZE	NO.	LOAD SERVED				
1			#12	2	2.6	20	1	5.6			2	20	3.0				HP-48 CORRIDOR B190				
1			#12	2	2.9	20	3	5.5			4	20	2.6				HP-26, HP-27 LEARN RES. B229, BASIC B233				
1			#12	2	1.3	20	5		5.3	6	20	4.0					EXISTING ELH VESTIBULE				
1			#12	2	1.6	20	7	2.4			8	20	0.8				HP-41				
2,3			#12	2	10.0	60	9		10.8	10	3P	0.8	3/4"	#12	#12	3	CORRIDOR B220				
2,3			#12	2	10.0	60	11		10.8	12	3P	1.3					HP-40				
			#12	2	2.9	20	13	4.2			14	20	1.3				CORRIDOR B220				
			#12	2	1.3	20	15		1.3	16	20	1.3					HP-42				
			#12	2	1.3	20	17		1.3	18	3P	1.3					CORRIDOR B220				
			#12	2	1.3	20	19		3.7	20	20	2.4					HP-42				
			#12	2	1.3	20	21		3.7	22	20	2.4					CORRIDOR B230				
			#12	2	1.3	20	23		3.7	24	3P	2.4					HP-42				
			#12	2	1.3	20	25		3.7	26	20	2.4					CORRIDOR B230				
			#12	2	1.3	20	27		3.7	28	30	2.4					HP-43				
			#12	2	1.3	20	29		3.7	30	20	2.4					CORRIDOR B230				
			#12	2	1.3	20	31		5.4	32	27	2.7					HP-23, HP-24				
			#12	2	2.7	30	33		5.4	34	30	2.7					CLASS ROOMS B235, B236				
			#12	2	2.7	30	35		5.4	36	3P	2.7									
			#12	2	2.7	30	37		5.4	38	30	2.7					HP-18, HP-20				
			#12	2	2.7	30	39		5.4	40	30	2.7					CLASS ROOMS B239, B241				
			#12	2	2.7	30	41		5.4	42	3P	2.7									
LOCATION: FIRST FLOOR, CORRIDOR B230										30.4 35.8 35.6 PHASE KVA											
										101.7 TOTAL KVA											
NOTES																					
1. UTILIZE EXISTING BRANCH CIRCUIT WIRING AND EXISTING CIRCUIT BREAKER																					
2. PROVIDE NEW WIRING AND PROVIDE NEW CIRCUIT BREAKER																					
3. PROVIDE 60A BREAKER WITH LOCKABLE DEVICE KIT																					

EXISTING PANELBOARD AT DAVIES MIDDLE SCHOOL										GENERAL PANEL DATA										AIC: 14KAIC	
										PM SEC 2										MOUNT: SURFACE	
										VOLT: 480/277V, 3PH, 4W											
										BUS: 400A											
LOAD SERVED										PHASE LOAD										MAIN LUGS ONLY	
COND	GRD	WIRE SIZE	NO.	KVA	BKR SIZE	CKT NO.	A	B	C	NO.	SIZE	KVA	COND	GRD	WIRE SIZE	NO.	LOAD SERVED				
				3.3	20	1	5.4			2	20	2.1					EXISTING CIRC PUMP LOAD				
				3.3	3P	3		5.4		4	3P	2.1									
				7	7.3	5				8	60	7.3					EXISTING CIRC PUMP LOAD				
				9	7.3	9				10	3P	7.3									
				11		11				12	7.3										
				13	24.0	13				14	15.0						EXISTING 45KVA TRANSFORMER LOAD				
				15	24.0	15				16	70	15.0									
				17		17				18	3P	15.0									
				19	18.7	19				20	90	17.4					EXISTING HP-25 LOAD				
				21		21				22	3P	17.4					ROOFTOP				
				23		23				24	15.0										
				25	21.6	25				26	100	17.4					EXISTING HP-20 LOAD				
				27		27				28	3P	17.4					ROOFTOP				
				29		29				30	17.4										
LOCATION: FIRST FLOOR, MECHANICAL ROOM B199										77.0 77.0 PHASE KVA											
										231.1 TOTAL KVA											
NOTES																					
1. UTILIZE EXISTING BRANCH CIRCUIT WIRING AND EXISTING CIRCUIT BREAKER																					
2. NOT USED																					

EXISTING PANELBOARD AT DAVIES MIDDLE SCHOOL										GENERAL PANEL DATA										AIC: 14KAIC	
										LG										MOUNT: FLUSH	
										VOLT: 480/277V, 3PH, 4W											
										BUS: 100A											
LOAD SERVED										PHASE LOAD										MAIN LUGS ONLY	
COND	GRD	WIRE SIZE	NO.	KVA	BKR SIZE	CKT NO.	A	B	C	NO.	SIZE	KVA	COND	GRD	WIRE SIZE	NO.	LOAD SERVED				
				2.8	20	1	4.4			2	20	1.6					EXISTING GYM LIGHTS				
				1.5	20	3				4	20	1.6					EXISTING GYM LIGHTS				
				1.3	20	5				2.9	6	20	1.6				EXISTING GYM LIGHTS				
				1.8	20	7	2.8			8	20	1.0					EXISTING LIGHTS MUSIC ROOM				
				1.6	20	9				3.4	10	1.8					EXISTING LIGHTS CLASS ROOM				
				1.6	20	11				3.4	12	1.8					EXISTING LIGHTS STAGE ROOM				
				1.2	20	13	4.6			14	20	3.4					EXISTING BOYS LOCKER ROOM				
				3.0	15	15				4.8	16	1.8					EXISTING LIGHTS ART ROOM				
				3.0	17	17				6.4	18	20	3.4				EXISTING GIRLS LOCKER ROOM				
				0.2	20	19	3.2			20	20	3.0					EXISTING LOAD				
				0.2	21	21				3.2	22	3.0					EXISTING LOAD				
				0.2	23	23				3.2	24	3.0					EXISTING LOAD				
2,4			#8	#6	2	10.0	60	25	10.0		26	20					EXISTING LOAD				
2,4			#8	#6	2	10.0	60	27	10.0		28	3P					EXISTING LOAD				
										0.0	30						SPARE				
										0.0	32						SPARE				
										0.0	34						SPARE				
										0.0	36						SPARE				
										2.0	38	20	1.0				EXISTING HV1 WOOD SHOP				
										2.0	40	3P	1.0								
										2.0	42	3P	1.0								
LOCATION: FIRST FLOOR, GYMNASIUM B170										27.0 26.5 17.8 PHASE KVA											
										71.3 TOTAL KVA											
NOTES																					
1. UTILIZE EXISTING BRANCH CIRCUIT WIRING AND EXISTING CIRCUIT BREAKER																					
2. PROVIDE NEW WIRING AND PROVIDE NEW CIRCUIT BREAKER																					
3. REMOVE BREAKER AND REPLACE WITH COVER PLATE																					
4. PROVIDE 60A BREAKER WITH LOCKABLE DEVICE KIT																					

EXISTING PANELBOARD AT DAVIES MIDDLE SCHOOL									
---	--	--	--	--	--	--	--	--	--

ABBREVIATIONS

AACB	Acrylic acoustical ceiling board	FA	Fire alarm	N	North	T	Tread
A/C	Air conditioning	FB	Face brick	NIC	Not in contract	TB	Top of bank
AB	Anchor bolt	FBRK	Fire brick	NO	Number	TC	Terra cotta
ACB	Acoustical ceiling board	FD	Floor drain	NOM	Nominal	TEL	Telephone
AD	Area drain	FE	Fire extinguisher	NRC	Noise reduction coefficient	T&G	Tongue and groove
ADJ	Adjacent	FEC	Fire extinguisher cabinet	NTS	Not to scale	TG	Top of grate
ADJT	Adjustable	FES	Flared end section			TGR	Top of grade
AFF	Above finished floor	FF	Finish floor			THK	Thick
AGG	Aggregate	FFE	Finished floor elevation			THR	Threshold
AL	Aluminum	FG	Fiberglass	OA	Overall	TKS	Tackstrip
ALT	Alternating	FIN	Finish	OC	On center	TEL	Telet
ALT, BID	Alternate bid	FIX	Fixture	OD	Outside diameter	T&G	Tongue and groove
ANC	Anchor, Anchorage	FLG	Flashing	OH	Overhead	TOC	Top of curb
ANOD	Anodized	FLR	Floor	OP	Opaque	TOM	Top of masonry
AP	Access panel	FND	Foundation	OPG	Opening	TOP	Top of plank
APX	Approximate	FR	Frame	OPP	Opposite	TOF	Top of steel
ARCH	Architect	FRP	Fiberglass reinforced polyester			TPD	Toilet paper dispenser
		FP	Fire proof	PAR	Parallel	TPG	Toilet plate glass
		FRT	Fire retardant	PBD	Paralleboard	TPN	Television
		FS	Floor sink	PC	Plumbing contractor	TPY	Typical
		FT	Feet	PCC	Precast concrete	TZ	Terrazzo
		FTG	Footing	PERI	Perimeter		
		FUR	Furring	PG	Plate glass	UC	Undercut
				PK	Parking	UL	Underwriter's laboratory
				PL	Plate	UNO	Unless noted otherwise
				P LAM	Plastic laminate	UR	Urinal
				PLAS	Plaster		
				PNL	Panel	VAT	Vinyl asbestos tile
				PNT	Paint (ed)	VB	Vapor barrier
				PR	Pair	VCT	Vinyl composition tile
				PRT	Precast Terrazzo Tile	VERT	Vertical
				PRF	Precast Resilient Terrazzo Tile	VEST	Vestibule
				PSI	Pounds per square foot	VIF	Verify in Field
				PTD	Paper towel dispenser	VIN	Vinyl
				PTN	Partition	VNR	Veneer
				PR	Paper towel receptor	VTR	Vent thru roof
				PVC	Polyvinyl chloride		
				PVMT	Pavement		
				PWD	Plywood		
						W	West
						W/O	Without
						WB	Wood base
						WC	Water closet
						WD	Wood
						WDW	Window
						WG	Wire glass
						WH	Wall hung
						WIN	Window
						WM	Wire mesh
						WP	Waterproofing / Work point
						WPT	Work point
						WR	Water repellent
						WS	Waterstop
						WSC	Wainscot
						WTW	Wall to wall
						WWF	Welded wire fabric

SYMBOL LIST

	SECTION NUMBER
	WALL SECTION
	DRAWING NUMBER
	DETAIL NUMBER
	DETAIL INFORMATION
	DEMOLITION NOTE
	REFERENCE TAG - SEE DEMOLITION NOTES
	WINDOW, STOREFRONT, OR CURTAIN WALL TYPE
	DOOR NUMBER - SEE DOOR SCHEDULE
	ROOM NAME
	ROOM NUMBER
	EQUIPMENT NUMBER OR LETTER
	COLUMN NUMBER OR LETTER
	ELEVATION NUMBER
	INTERIOR ELEVATION
	DRAWING NUMBER

MATERIAL LEGEND

	A.C.B. / A.C.T.		CMU
	Earth		POROUS FILL
	PLASTER / GYP BD / EIFS		CONCRETE
	STUD PARTITION		BATT INSULATION
	ROUGH WOOD		PLYWOOD
	FINISH WOOD		FACE BRICK
	METAL / STEEL		RIGID INSULATION
	CMU / DOLOMITIC LIMESTONE		INSULATED METAL SIDING

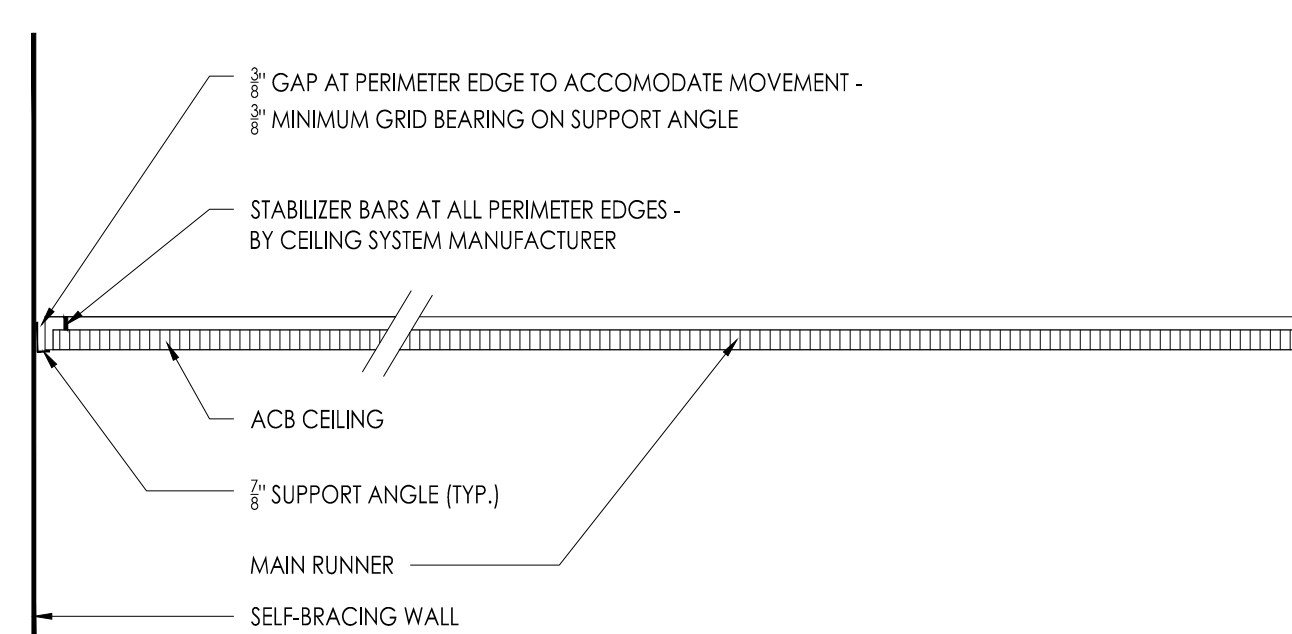
SOLID CMU NOTE:
IN ALL LOCATIONS WHERE 4" SOLID 1-HOUR OR 2-HOUR RATED CMU IS INDICATED, PROVIDE AND INSTALL CMU OF LIGHTWEIGHT CLASSIFICATION USING AGGREGATE OF EXPANDED CLAY, EXPANDED SHALE OR EXPANDED SLATE, WITH A MINIMUM THICKNESS OF 3.6", IN COMPLIANCE WITH ANSI/ACI 216.1-97, 1M5-021 6-97 AND IBC-2015 TABLE 721.1 (2) ITEM 3-1.2 - SEE SPECIFICATION.

GENERAL CONSTRUCTION NOTES:

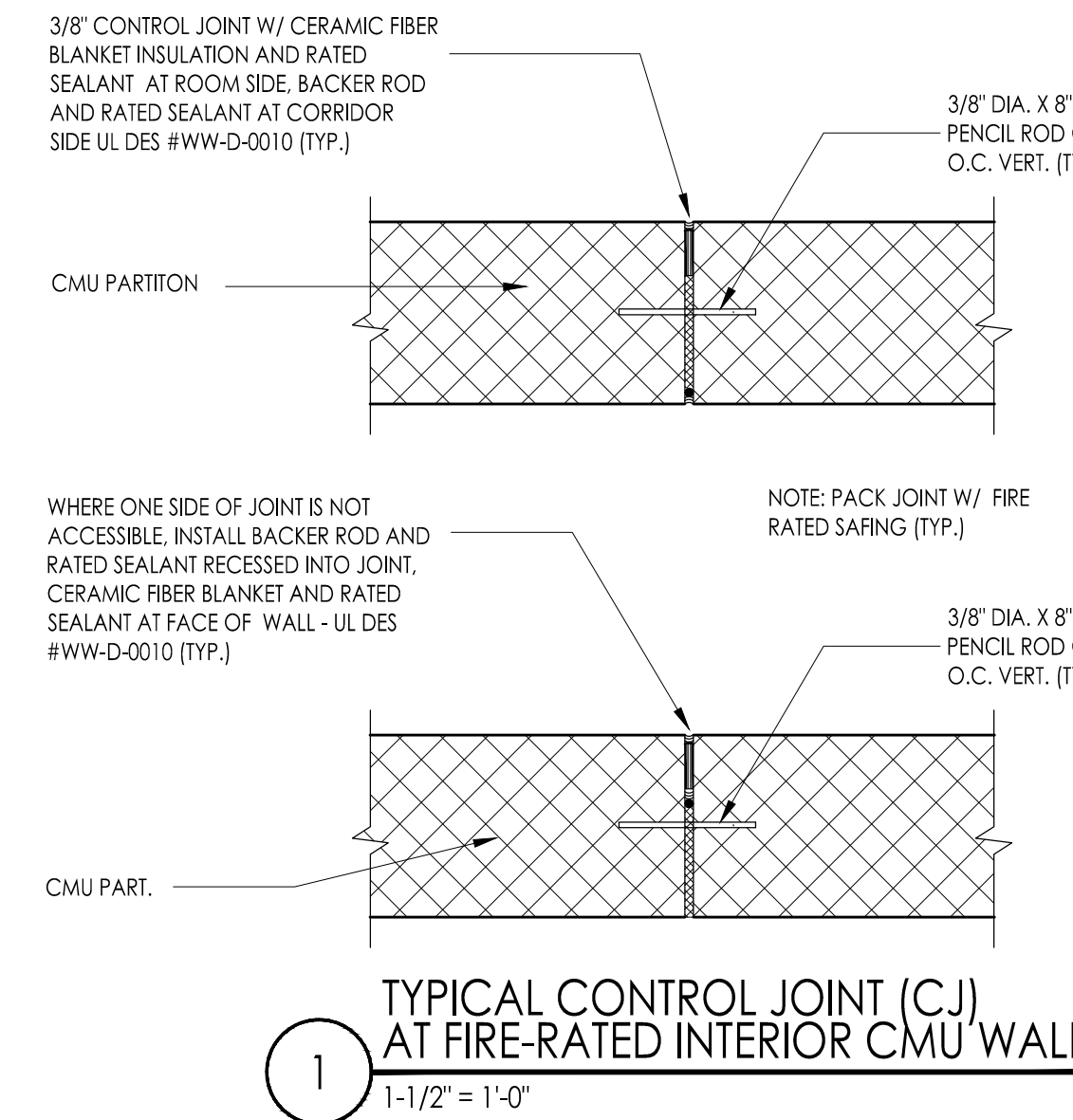
- THESE NOTES SHALL APPLY TO ALL WORK THROUGHOUT THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED SAFETY PROTECTION DURING CONSTRUCTION.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A SUFFICIENT WORK FORCE TO MEET COMPLETION DATES AS OUTLINED IN THE SPECIFICATIONS. NO EXCEPTIONS WILL BE ALLOWED.
 - DO NOT SCALE THE DRAWINGS.
 - DETAILS NOTED "TYPICAL" IMPLY ALL SUCH CONDITIONS BE TREATED SIMILARLY.
 - ALL WORK PERTAINING TO THESE DRAWINGS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND IN AGREEMENT WITH ALL AGENCIES HAVING JURISDICTION.
 - THE CONTRACTOR IS RESPONSIBLE TO SECURE ALL PERMITS, TO OBTAIN APPROVALS AS REQUIRED AND COORDINATE INSPECTION WITH LOCAL BUILDING OFFICE. ALL PERMIT AND APPLICATION FEES WILL BE PAID BY THE OWNER AND DELIVERED BY THE CONTRACTOR.
 - DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER. WORK NOT SHOWN ON DRAWING BUT CALLED FOR IN THE SPECIFICATIONS IS STILL REQUIRED, AND ALL WORK NOT CALLED FOR IN SPECIFICATIONS, BUT CALLED OUT OR SHOWN IN DRAWINGS IS STILL REQUIRED.
 - UNLESS OTHERWISE NOTED AND UNLESS FACTORY FINISHED, ALL EXPOSED SURFACES OF CMU, CONCRETE, PLASTER, WOOD, GYPSUM BOARD, HOLLOW METAL, HARDWOODS, MISC. METALS ETC., ARE TO RECEIVE PRIME AND FINISH COATS OF PAINT OR CLEAR FINISH AS SPECIFIED AND IN COLORS AS SELECTED BY ARCHITECT. EXCLUDED FROM THIS IS BRICK.
 - THE OWNER WILL REMOVE AND RE-INSTALL ALL MOVEABLE EQUIPMENT. EACH CONTRACTOR IS RESPONSIBLE TO REMOVE, STORE AND RE-INSTALL EXISTING BUILT-IN EQUIPMENT REQUIRED TO PERFORM THEIR WORK UNLESS NOTED OTHERWISE.

GENERAL NOTES ON DEMOLITION:

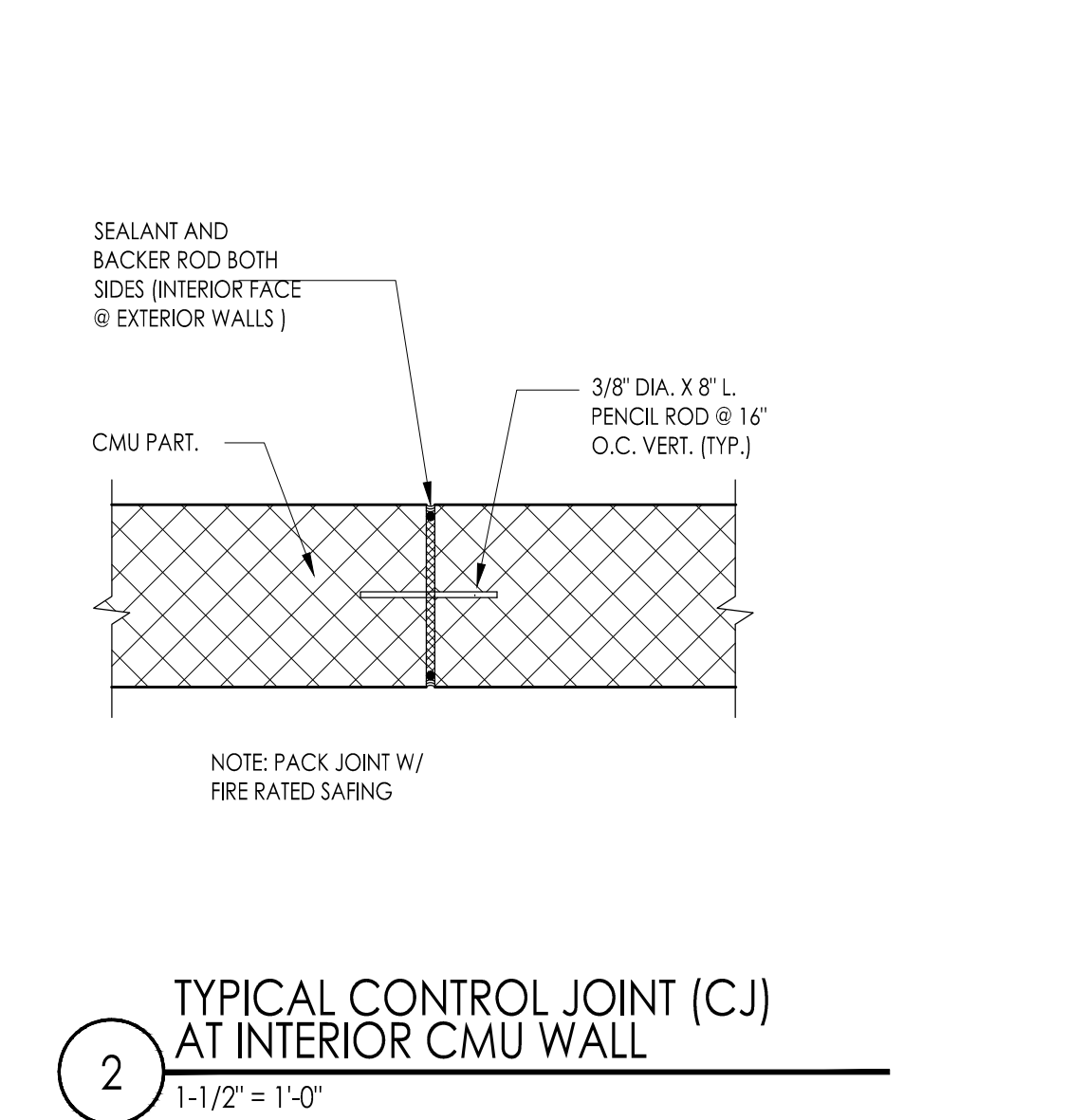
- THESE NOTES SHALL APPLY TO ALL DEMOLITION WORK THROUGHOUT THE PROJECT.
- ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE AND VERIFY ALL AREAS AND CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. THE CONTRACTOR MUST NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS IN WRITING AT LEAST SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. FAILURE TO SO NOTIFY THE ARCHITECT INDICATES THAT ANY ADDITIONAL COSTS ASSOCIATED WITH THE DISCREPANCIES AND/OR OMISSIONS ARE INCLUDED IN THE CONTRACTOR'S BID AND THAT NO CHANGE TO THE CONTRACT AMOUNT WILL BE MADE AFTER THE RECEIPT OF BIDS OR THE AWARD OF CONTRACTS.
 - ALL PLUMBING, MECHANICAL OR ELECTRICAL DISCONNECTS SHALL BE MADE BY THE RESPECTIVE TRADES. ALL EQUIPMENT, DEVICES, FIXTURES, ETC. SHALL BE REMOVED FROM THE SITE BY THE RESPECTIVE CONTRACTOR. NOTE: THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE DIMINISHED NOR SHALL EXISTING FIRE ALARM DEVICES BE REMOVED UNTIL NEW DEVICES ARE READY FOR SWITCHOVER.
 - UNLESS NOTED OTHERWISE ALL DEMOLITION MATERIAL SHALL BE REMOVED OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THERE ARE SOME SPECIFIC ITEMS DESIGNATED BY THE ARCHITECT FOR SALVAGE. THESE ITEMS ARE INTENDED FOR REUSE IN THE NEW CONSTRUCTION. THE CONTRACTOR MUST TAKE CARE IN THE REMOVAL AND STORAGE OF THESE ITEMS UNTIL THEY ARE NEEDED IN THE NEW CONSTRUCTION.
 - THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT PORTIONS OF THE EXISTING CONSTRUCTION WHICH ARE ADJACENT TO AREAS TO BE DEMOLISHED. MAKE ALL CUTS AS NEATLY AS POSSIBLE. REFER TO FLOOR PLAN DRAWINGS FOR FINISHING OF THESE AREAS.
 - IF NOT OTHERWISE NOTED OR DETAILED, ALL SURFACES LEFT ROUGH OR UNFINISHED BY DEMOLITION AND WHICH ARE EXPOSED TO VIEW, SHALL BE PATCHED TO MATCH ADJACENT SURFACES AND FINISHED TO PROVIDE A UNIFORM APPEARANCE WITH REGARD TO SIZE, SHAPE, COLOR, TEXTURE AND MATERIAL.
 - THE CONTRACTOR SHALL PROVIDE A PHYSICAL BARRIER TO CONTAIN DUST AND DIRT AROUND THE DEMOLITION AREA AND SHALL MAKE EVERY EFFORT TO KEEP THE DEMOLITION SITE AND SURROUNDING AREAS AS CLEAN AS POSSIBLE. ALL TEMPORARY PARTITIONS SHALL BE 1 HOUR RATED CONSTRUCTION AND INCLUDE A DOOR.
 - NO DEMOLITION SHALL BEGIN UNTIL PROPER PROTECTION IS IN PLACE AND APPROVED BY ARCHITECT & OWNER TO ENSURE THE SAFETY OF THE PUBLIC, THE BUILDING OCCUPANTS, CONSTRUCTION WORKERS AND TO CONTAIN DUST AND DIRT WITHIN THE AREA OF DEMOLITION.
 - THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REGARDING THE REMOVAL AND DISPOSAL OF ALL MATERIALS & EQUIPMENT.
 - THE CONTRACTOR SHALL PROVIDE PROTECTION AGAINST INCLEMENT WEATHER FOR THE EXISTING BUILDING DURING THE INTERIM PERIOD BETWEEN DEMOLITION AND THE COMPLETION OF NEW CONSTRUCTION.
 - THE CONTRACTORS SHALL TAKE INTO ACCOUNT THEIR METHODS OF CONSTRUCTION FOR THE NEW WORK AND INCLUDE IN THEIR BID THE COST OF ADDITIONAL DEMOLITION WORK NECESSARY TO FACILITATE THE CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE AREA AROUND JOINTS BETWEEN NEW AND EXISTING CONSTRUCTION IN WALLS, FLOORS AND CEILINGS, AREAS OF SIDEWALK AND PAVING, ETC. MUCH OF THIS WORK IS INDICATED IN SECTIONS AND DETAILS RELATING TO THE NEW CONSTRUCTION.
 - THE DEMOLITION WORK SHOWN ON THIS PLAN IS INTENDED TO BE A GENERAL OVERVIEW OF MAJOR DEMOLITION WORK REQUIRED. IT IS NOT A COMPLETE AND EXCLUSIVE REPRESENTATION OF ALL DEMOLITION WORK NEEDED FOR EXECUTION OF THE PROJECT. WHEN PREPARING THEIR BIDS, CONTRACTORS MUST REFER TO THE FULL SET OF CONSTRUCTION DOCUMENTS FOR VARIOUS MISCELLANEOUS ITEMS WHICH MUST BE REMOVED AND/OR RELOCATED AS PART OF THE WORK.
 - ALL PRIME CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN CUTTING AND PATCHING - SEE SPECIFICATION.
 - IN ROOMS WHERE EXISTING FLOOR FINISH AND BASE ARE INDICATED TO BE REMOVED, IF ASBESTOS TILE IS ENCOUNTERED, STOP REMOVAL AND NOTIFY OWNER IMMEDIATELY. ASBESTOS TILE SHALL BE REMOVED DOWN TO THE EXISTING CONCRETE SLAB AND THE SURFACE PREPARED FOR NEW FINISH BY OTHERS PRIOR TO CONTINUING WITH RENOVATION WORK. AFTER ASBESTOS ABATEMENT, THE CONTRACTOR SHALL CLEAN SLAB TO REMOVE ADHESIVES AND INFILL WITH SELF-DRYING FINISHING UNDERLAYMENT (COMPATIBLE WITH NEW FLOOR FINISHES) OVER ENTIRE SURFACE OF EXISTING FLOOR TO MAKE FLOOR LEVEL AND FLUSH. APPLY NEW FINISH AND BASE AS INDICATED.



D ACB SEISMIC BRACING DETAIL
1" = 1'-0"



1 TYPICAL CONTROL JOINT (CJ) AT FIRE-RATED INTERIOR CMU WALL
1-1/2" = 1'-0"



2 TYPICAL CONTROL JOINT (CJ) AT INTERIOR CMU WALL
1-1/2" = 1'-0"

NOTES:
UNLESS OTHERWISE SPECIFIED ON DRAWINGS, PROVIDE & INSTALL LINTELS FOR ALL SQUARE-HEAD MASONRY OPENINGS IN ALL MASONRY WALLS IN ACCORDANCE WITH THE FOLLOWING SCHEDULES AND COMMENTS.

LOOSE LINTEL SCHEDULE (FOR 4" 8", 12" & 16" WALLS)		
MASONRY OPENING	LINTEL SIZE	REMARKS
UP TO 4'-0"	L - 3-1/2" x 3-1/2" x 1'-4"	
4'-1" TO 6'-0"	L - 5" x 3-1/2" x 5/16"	
6'-1" TO 8'-0"	L - 6" x 3-1/2" x 5/16"	
OVER 8'-0"	W 8 x 18 + PLATE	

LOOSE LINTEL SCHEDULE (FOR 6" WALLS)		
MASONRY OPENING	LINTEL SIZE	REMARKS
2'-0" TO 4'-0"	WT 7 x 11	
6'-1" TO 8'-0"	WT 8 x 13	

NOTES:
1. PROVIDE ONE (1) ANGLE FOR EACH 4" OF MASONRY WIDTH.
2. BEAR LINTELS 8" MINIMUM ON EACH SIDE OF OPENING.
3. ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.
4. WHERE OPENINGS ARE LOCATED NEXT TO COLUMNS OR BEAMS, ATTACH LINTEL TO STRUCTURAL STEEL. CONNECTION NOT TO PROTRUDE INTO OPENING.
5. REFER TO ARCHITECTURAL, HVAC & ELECTRICAL DRAWINGS FOR OPENING SIZE & LOCATION.

GFVHHD architects planners
Fraytak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Whitaker Ave - Mount Clear - Pennsylvania 19463

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTHIE, JR., AIA, PP

02/15/19
Date

F V H D P C C O M

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
**5801 3rd ST
MAYS LANDING,
NJ 08330**

Project Number
4937B

Project Date
02.15.2019

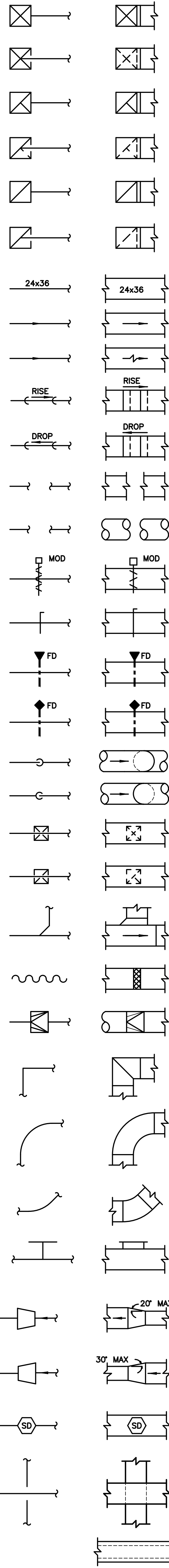
Checked By
JJV
Drawn By
dsb
Scale
N.T.S.

Drawing Name
Abbreviations and General Information

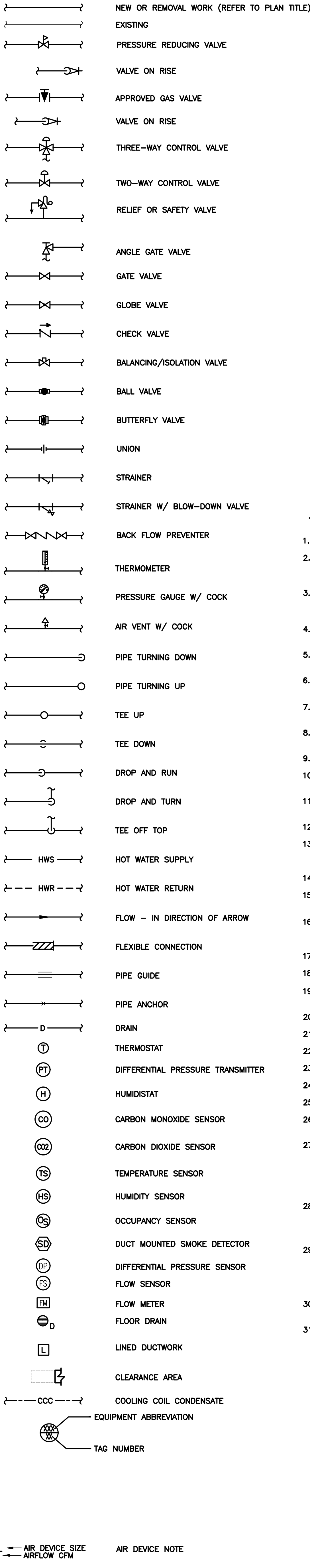
Revisions		
No.	Date	Description

Drawing Number
G002

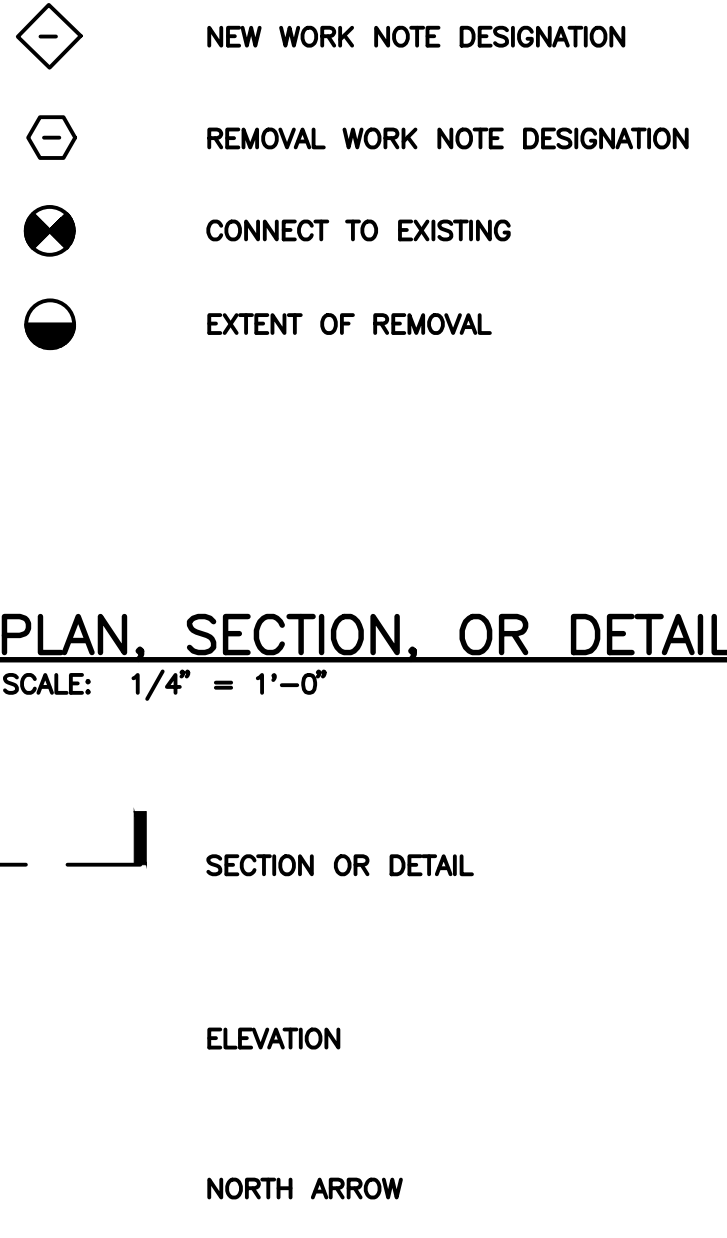
HVAC LEGEND:



SUPPLY AIR UP
SUPPLY AIR DOWN
EXHAUST AIR UP
EXHAUST AIR DOWN
RETURN AIR UP
RETURN AIR DOWN
DUCT SIZE (FIRST FIGURE-SIDE SHOWN)
DIRECTION OF FLOW-SUPPLY
DIRECTION OF FLOW-EXHAUST OR RETURN AIR
DUCT INCLINED RISE (RESPECT TO AIR)
DUCT INCLINED DROP (RESPECT TO AIR)
BREAK IN RECTANGULAR DUCT
BREAK IN ROUND DUCT
MOTORIZED CONTROL DAMPER
BALANCING DAMPER
HORIZONTAL FIRE DAMPER
VERTICAL FIRE DAMPER
ROUND DUCT DOWN
ROUND DUCT UP
SUPPLY DIFFUSER
EXHAUST/RETURN REGISTER OR GRILLE
45° BOOT CONNECTION
FLEXIBLE CONNECTION/FLEXIBLE DUCTWORK
ROUND TO RECTANGULAR TRANSITION
90° ELBOW WITH TURNING VANES
90° RADIUS ELBOW (NO VANES)
45° ELBOW (NO VANES)
SIDE WALL DIFFUSER, REGISTER OR GRILLE
TRANSITION (DIVERGING FLOW)
TRANSITION (CONVERGING FLOW)
DUCT MOUNTED SMOKE DETECTOR
LOWER DUCT
LINED DUCTWORK



NEW OR REMOVAL WORK (REFER TO PLAN TITLE)
EXISTING
PRESSURE REDUCING VALVE
VALVE ON RISE
APPROVED GAS VALVE
VALVE ON RISE
THREE-WAY CONTROL VALVE
TWO-WAY CONTROL VALVE
RELIEF OR SAFETY VALVE
ANGLE GATE VALVE
GATE VALVE
GLOBE VALVE
CHECK VALVE
BALANCING/ISOLATION VALVE
BALL VALVE
BUTTERFLY VALVE
UNION
STRAINER
STRAINER W/ BLOW-DOWN VALVE
BACK FLOW PREVENTER
THERMOMETER
PRESSURE GAUGE W/ COCK
AIR VENT W/ COCK
PIPE TURNING DOWN
PIPE TURNING UP
TEE UP
TEE DOWN
DROP AND RUN
DROP AND TURN
TEE OFF TOP
HOT WATER SUPPLY
HOT WATER RETURN
FLOW - IN DIRECTION OF ARROW
FLEXIBLE CONNECTION
PIPE GUIDE
PIPE ANCHOR
DRAIN
THERMOSTAT
DIFFERENTIAL PRESSURE TRANSMITTER
HUMIDISTAT
CARBON MONOXIDE SENSOR
CARBON DIOXIDE SENSOR
TEMPERATURE SENSOR
HUMIDITY SENSOR
OCCUPANCY SENSOR
DUCT MOUNTED SMOKE DETECTOR
DIFFERENTIAL PRESSURE SENSOR
FLOW SENSOR
FLOOR METER
FLOOR DRAIN
LINED DUCTWORK
CLEARANCE AREA
COOLING COIL CONDENSATE
EQUIPMENT ABBREVIATION
TAG NUMBER

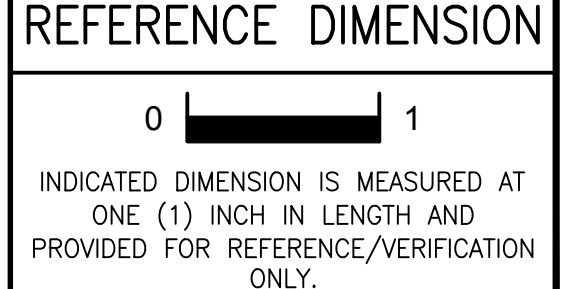


HVAC GENERAL NOTES:

- 1. GENERAL NOTES APPLY TO ALL HEATING, VENTILATING AND AIR-CONDITIONING (HVAC) DRAWINGS.
2. COORDINATE THE ROOF SUPPORT SYSTEM, STRUCTURAL STEEL, CROSS BRACING, PENETRATIONS, BUILDING ACCESS, BUILDING EQUIPMENT REINFORCEMENT/SUPPORTS, ETC. TO FACILITATE THE INSTALLATION OF HVAC EQUIPMENT AND ROUTING/LOCATION OF DUCTWORK, PIPING, AND THE LIKE.
3. COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATION PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF PIPING AND/OR DUCTWORK WITHOUT COMPROMISING THE INTEGRITY AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.
4. PROVIDE FIRE DAMPERS, SMOKE DAMPERS, AND ALL ASSOCIATED LIFE SAFETY DEVICES FOR ALL DUCTWORK/PIPING PENETRATIONS THRU RATED ASSEMBLIES. REFER TO HVAC AND ARCHITECTURAL DRAWINGS FOR REQUIRED RATINGS AND LOCATIONS.
5. HVAC PIPING AND DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE, PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND ALL TRADE WORK BY OTHERS.
6. GENERAL LOCATION OF DIFFUSERS AND REGISTERS AS SHOWN ON HVAC DRAWINGS ARE SCHEMATIC IN NATURE, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
7. FLEXIBLE DUCTWORK SHALL NOT EXCEED 7'-0" IN LENGTH, OR BE INSTALLED WITH BEND RADIUS GREATER THAN 1 TIMES THE DIAMETER AND 90°.
8. COORDINATE CONSTRUCTION OF ALL HVAC WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
9. ALL PIPING AND CONTROL WIRING TO BE CONCEALED IN WALLS, CEILINGS AND CHASES.
10. COORDINATE THE LOADING REQUIREMENTS FOR THE SUPPORT OF ALL HVAC SYSTEMS INCLUDING, BUT NOT LIMITED TO ROOFTOP UNITS, PIPING AND DUCTWORK.
11. PROVIDE HANGERS AND SUPPORTS PER THE SPECIFICATIONS FOR ALL PIPING, DUCTWORK AND HVAC EQUIPMENT TO FACILITATE INSTALLATION OF THE WORK.
12. PROVIDE VIBRATION ISOLATION DEVICES FOR ALL HVAC EQUIPMENT AND SYSTEMS. REFER TO DETAIL SHEET FOR TYPICAL CONSTRUCTION.
13. ALL MATERIALS EXPOSED WITHIN RETURN AIR PLENUMS SHALL BE RATED FOR USE IN PLENUMS. PROVIDE MATERIALS THAT ARE NON COMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84.
14. SCHEDULE AND OBTAIN APPROVAL FOR ALL SYSTEM SHUTDOWNS WITH OWNER PRIOR TO COMMENCING WITH REMOVAL AND NEW WORK.
15. PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM WORK. MATCH MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.
16. NOTE THAT THE IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS.
17. THOROUGHLY COORDINATE ALL CONSTRUCTION, PRIOR TO COMMENCEMENT OF INSTALLATION OF HVAC SYSTEMS.
18. COORDINATE REQUIREMENTS FOR LOSS OF PHASE PROTECTION ON ALL THREE PHASE MOTORS SERVING EQUIPMENT ON THIS CONTRACT.
19. ALL EQUIPMENT AND/OR MATERIAL BEING REMOVED DURING REMOVAL SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR AND SHALL BE RETAINED OR DISPOSED OF AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER.
20. ASPECT RATIO OF DUCTWORK SIZING CAN BE CHANGED TO SUIT FIELD CONDITIONS AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
21. PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK TO EQUIPMENT CONNECTIONS.
22. PROVIDE TURNING VANES IN ALL DUCT ELBOWS.
23. PROVIDE VOLUME DAMPERS AT BOOT CONNECTIONS AND BRANCHES OF MAINS FOR ALL SUPPLY, RETURN, AND EXHAUST AIR SYSTEMS.
24. DUCTWORK DIMENSIONS INDICATE INTERNAL CLEAR DIMENSIONS.
25. EQUIPMENT INSULATION SHALL BE INSTALLED AS NOT TO CONCEAL THE EQUIPMENT NAME PLATE.
26. HVAC REMOVAL WORK IN THE BUILDING SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR INCLUDING HVAC EQUIPMENT, SYSTEMS, APPARATUS, AND ACCESSORIES.
27. THE REMOVAL DRAWINGS SHOW A GENERAL REPRESENTATION OF QUANTITIES AND LOCATIONS OF EXISTING HVAC COMPONENTS AND SYSTEMS, AND ARE NOT ALL INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE REMOVAL OF THE HVAC SYSTEMS TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. REMOVAL WORK IS TO INCLUDE, BUT NOT LIMITED TO REMOVAL OF EQUIPMENT, APPARATUS, SYSTEM ACCESSORIES, DUCT, PIPING, INSULATION, DROPS, RISERS, AUXILIARY SYSTEMS/PIPING/CONTROLS, VALVES, PIPING ACCESSORIES, CONTROLS, CONTROL WIRING/TUBING, CONDUITS, BASES, SUPPORTS, HANGERS AND SYSTEM APPURTENANCES.
28. ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES, WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE, AND ALL OTHER FEDERAL, STATE AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
29. ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFU), INDUSTRIAL RISK INSURANCE UNDERWRITERS (RII), FACTORY MUTUAL (FM), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRIC CODE (NEC), THE AMERICAN GAS ASSOCIATION (AGA), AND THE AMERICAN SOCIETY OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF ALL PUBLIC UTILITY COMPANIES SERVING THE PROJECT SITE.
30. COORDINATE LOCATION AND SIZE OF ALL WALL PENETRATIONS WITH STRUCTURAL FOR FRAMING AND ADDITIONAL SUPPORTS REQUIRED PRIOR TO BEGINNING WORK.
31. INSTALL ALL EQUIPMENT TO MAINTAIN ADEQUATE CLEARANCES PER MANUFACTURER'S REQUIREMENTS. PROVIDE OFFSETS AS NECESSARY TO FACILITATE.

HVAC ABBREVIATIONS:

Table with 3 columns: Abbreviation, Full Name, and another Abbreviation. Includes terms like ABS, AD, AF, AFD, AFF, AFMS, AHU, AMB, AP, APD, ARCH, ATC, ATM, ATV, AUTO, A/C, B, BBD, BC, BDD, BFW, BFP, BHP, BOD, BTU, C, CA, CAB, CC, CCC, CD, CFM, CI, CLEANOUT, COND, CONN, COP, CU, CUH, CV, CW, D, DB, D.b., DC, DD, DEG, DIA, DIV, DN, DP, DPR, DPT, DTL, DTR, DTS, DWG., DX, (E), EAT, E.C., EDH, EER, EF, EFF, ENT, ER, ESP, ET, EWT, F, F&T, FC, FD, FFM, FTR, FFS, FT, F&BP, GAL, G.C., GPM, GRV, GVR, H, H.C., HD, HP, HPC, HPS, HRU, HT, HTG, HUMID, HW, HWC, HWR, HWS, HX, HZ, ID, IN, INTL, KW, L, LAT, LBS, LH, LIQ, LPC, LPS, LVT, LWT, MAX, MB, MBH, MCA, MD, MIN, MOD, MOP, MPC, MPS, MU, MWT, N/A, N/A, NC, NEC, NFPA, N.I.C., NTS, N/G, N/O, OBD, OED, OD, O/A, P, PBD, P.C., PD, PNEU, PNL, POS, PRESS, PRV, PSF, PSIA, (R), RAF, RBF, RD, RF, RH, RL, RLA, RPM, RRP, RS, RTU, R/A, SAN, SD, SENS, SF, SH, SL, SP, SPEC, SS, STD, STM, SYS, S/A, TEMP, TOS, TSP, T STAT, TYP, UCD, UH, UL, U.N.O, UV, VAC, VAV, VD, VEL, VOL, W, W.b., WC, WG, WPD, WT, W/, W/O, LENGTH, LEAVING AIR TEMPERATURE, POUNDS, LATENT HEAT, LIQUID, LOW PRESSURE CONDENSATE, LOW PRESSURE STEAM, LEAVING, LEAVING WATER TEMPERATURE, MAXIMUM, MIXING BOX, THOUSANDS BTU/HR, MINIMUM CIRCUIT AMPACITY, MODULATING, MINIMUM, MOTOR OPERATED DAMPER, MAXIMUM OVER CURRENT PROTECTION, MEDIUM PRESSURE CONDENSATE, MEDIUM PRESSURE STEAM, MAKE-UP WATER, MAKE-UP WATER TEMPERATURE, MAKE-UP AIR, NOT APPLICABLE, NOISE CRITERIA, NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION ASSOCIATION, NOT IN CONTRACT, NOT TO SCALE, NORMALLY CLOSED, NORMALLY OPEN, OPPOSED BLADE DAMPER, OPEN ENDED DUCT, OUTSIDE DIAMETER, OUTSIDE AIR, PUMP, PARALLEL BLADE DAMPER, PLUMBING CONTRACTOR, PRESSURE DROP, POSITION, PRESSURE, POUNDS PER SQUARE INCH, POUNDS PER SQUARE INCH ABSOLUTE, REMOVE, RETURN AIR FAN, RUN BELOW FLOOR, ROOF DRAIN, RELIEF AIR FAN, RELATIVE HUMIDITY, REFRIGERANT LIQUID, RATED LOAD AMPS, REVOLUTIONS PER MINUTE, REFRIGERANT RELIEF PIPING, REFRIGERANT SUCTION, ROOF TOP UNIT, RETURN AIR, SANITARY, SMOKE DETECTOR, SENSIBLE, SUPPLY AIR FAN, SENSIBLE HEAT, SOUND LINING, STATIC PRESSURE, SPECIFICATION, STAINLESS STEEL, STANDARD, STEAM, SYSTEM, SUPPLY AIR, TEMPERATURE, TOP OF STEEL, TOTAL STATIC PRESSURE, THERMOSTAT, TYPICAL, UNDER CUT DOOR, UNIT HEATER, UNDERWRITERS LABORATORIES, UNLESS NOTED OTHERWISE, UNIT VENTILATORS, VACUUM, VARIABLE AIR VOLUME, VOLUME DAMPER, VELOCITY, VOLUME, WIDTH, WET BULB, WATER COLUMN, WATER GAUGE, WATER PRESSURE DROP, WEIGHT, WITH, WITHOUT.



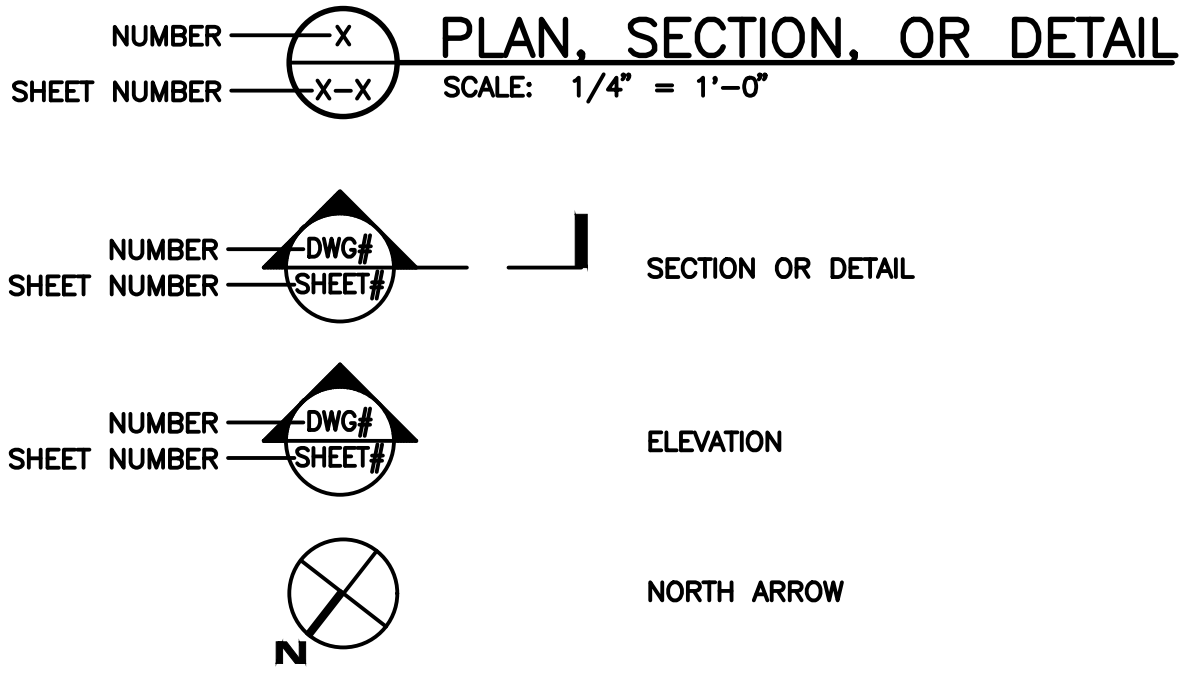
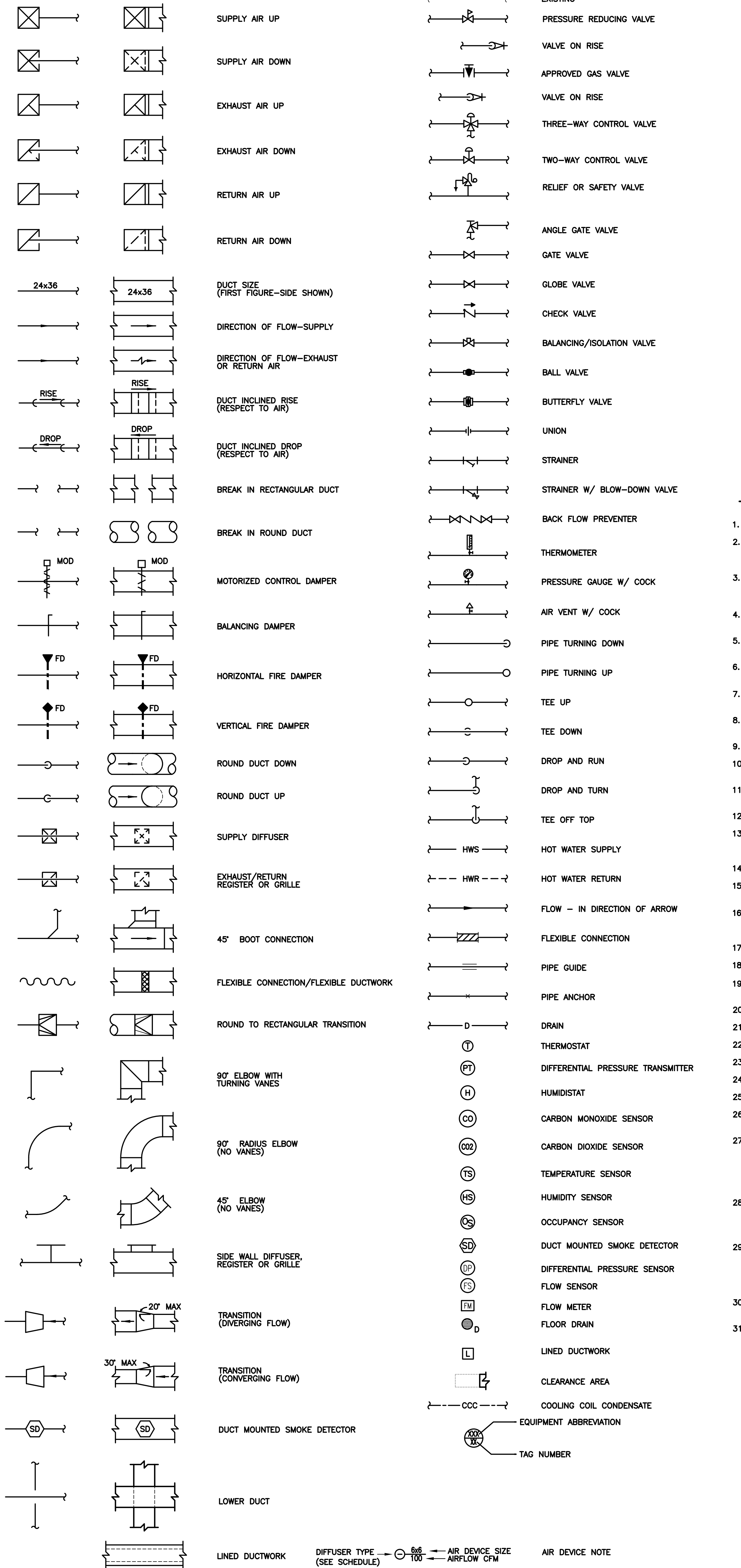
Gillan & Hartmann, Inc. MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS. 610-935-0101 FAX: 610-935-7520. www.gillan-hartmann.com

02/15/2019 ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE0470000

Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330
Project Number: 4937C
Project Date: 02.15.2019
Checked By: TJB
Drawn By: HJB
Scale: AS NOTED
Drawing Name: HVAC GENERAL NOTES, LEGENDS, & ABBREVIATIONS
Drawing Number: H001

HVAC LEGEND:



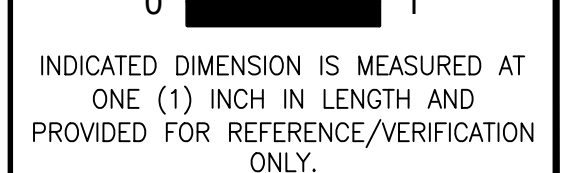
HVAC GENERAL NOTES:

- GENERAL NOTES APPLY TO ALL HEATING, VENTILATING AND AIR-CONDITIONING (HVAC) DRAWINGS.
- COORDINATE THE ROOF SUPPORT SYSTEM, STRUCTURAL STEEL, CROSS BRACING, PENETRATIONS, BUILDING EQUIPMENT REINFORCEMENT/SUPPORTS, ETC. TO FACILITATE THE INSTALLATION OF HVAC EQUIPMENT AND ROUTING/LOCATION OF DUCTWORK, PIPING, AND THE LIKE.
- COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATION PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF PIPING AND/OR DUCTWORK WITHOUT COMPROMISING THE INTEGRITY AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.
- PROVIDE FIRE DAMPERS, SMOKE DAMPERS, AND ALL ASSOCIATED LIFE SAFETY DEVICES FOR ALL DUCTWORK/PIPING PENETRATIONS THRU RATED ASSEMBLIES. REFER TO HVAC AND ARCHITECTURAL DRAWINGS FOR REQUIRED RATINGS AND LOCATIONS.
- HVAC PIPING AND DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE, PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS AND ALL TRADE WORK BY OTHERS.
- GENERAL LOCATION OF DIFFUSERS AND REGISTERS AS SHOWN ON HVAC DRAWINGS ARE SCHEMATIC IN NATURE, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- FLEXIBLE DUCTWORK SHALL NOT EXCEED 7'-0" IN LENGTH, OR BE INSTALLED WITH BEND RADIUS GREATER THAN 1 TIMES THE DIAMETER AND 90°.
- COORDINATE CONSTRUCTION OF ALL HVAC WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- ALL PIPING AND CONTROL WIRING TO BE CONCEALED IN WALLS, CEILINGS AND CHASES.
- COORDINATE THE LOADING REQUIREMENTS FOR THE SUPPORT OF ALL HVAC SYSTEMS INCLUDING, BUT NOT LIMITED TO ROOFTOP UNITS, PIPING AND DUCTWORK.
- PROVIDE HANGERS AND SUPPORTS PER THE SPECIFICATIONS FOR ALL PIPING, DUCTWORK AND HVAC EQUIPMENT TO FACILITATE INSTALLATION OF THE WORK.
- PROVIDE VIBRATION ISOLATION DEVICES FOR ALL HVAC EQUIPMENT AND SYSTEMS. REFER TO DETAIL SHEET FOR TYPICAL CONSTRUCTION.
- ALL MATERIALS EXPOSED WITHIN RETURN AIR PLENUMS SHALL BE RATED FOR USE IN PLENUMS. PROVIDE MATERIALS THAT ARE NON-COMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84.
- SCHEDULE AND OBTAIN APPROVAL FOR ALL SYSTEM SHUTDOWNS WITH OWNER PRIOR TO COMMENCING WITH REMOVAL AND NEW WORK.
- PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM WORK. MATCH MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.
- NOTE THAT THE IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS.
- THOROUGHLY COORDINATE ALL CONSTRUCTION, PRIOR TO COMMENCEMENT OF INSTALLATION OF HVAC SYSTEMS.
- COORDINATE REQUIREMENTS FOR LOSS OF PHASE PROTECTION ON ALL THREE PHASE MOTORS SERVING EQUIPMENT ON THIS CONTRACT.
- ALL EQUIPMENT AND/OR MATERIAL BEING REMOVED DURING REMOVAL SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR AND SHALL BE RETAINED OR DISPOSED OF AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER.
- ASPECT RATIO OF DUCTWORK SIZING CAN BE CHANGED TO SUIT FIELD CONDITIONS AT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK TO EQUIPMENT CONNECTIONS.
- PROVIDE TURNING VANES IN ALL DUCT ELBOWS.
- PROVIDE VOLUME DAMPERS AT BOOT CONNECTIONS AND BRANCHES OF MAINS FOR ALL SUPPLY, RETURN, AND EXHAUST AIR SYSTEMS.
- DUCTWORK DIMENSIONS INDICATE INTERNAL CLEAR DIMENSIONS.
- EQUIPMENT INSULATION SHALL BE INSTALLED AS NOT TO CONCEAL THE EQUIPMENT NAME PLATE.
- HVAC REMOVAL WORK IN THE BUILDING SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR INCLUDING HVAC EQUIPMENT, SYSTEMS, APPARATUS, AND ACCESSORIES.
- THE REMOVAL DRAWINGS SHOW A GENERAL REPRESENTATION OF QUANTITIES AND LOCATIONS OF EXISTING HVAC COMPONENTS AND SYSTEMS, AND ARE NOT ALL INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE REMOVAL OF THE HVAC SYSTEMS TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. REMOVAL WORK IS TO INCLUDE, BUT NOT LIMITED TO REMOVAL OF EQUIPMENT, APPARATUS, SYSTEM ACCESSORIES, DUCT, PIPING, INSULATION, DROPS, RISERS, AUXILIARY SYSTEMS/PIPING/CONTROLS, VALVES, PIPING ACCESSORIES, CONTROLS, CONTROL WIRING/TUBING, CONDUITS, BASES, SUPPORTS, HANGERS AND SYSTEM APPURTENANCES.
- ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE, AND ALL OTHER FEDERAL, STATE AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
- ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFI), INDUSTRIAL RISK INSURANCE UNDERWRITERS (IRI), FACTORY MUTUAL (FM), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRIC CODE (NEC), THE AMERICAN GAS ASSOCIATION (AGA), AND THE AMERICAN SOCIETY OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF ALL PUBLIC UTILITY COMPANIES SERVING THE PROJECT SITE.
- COORDINATE LOCATION AND SIZE OF ALL WALL PENETRATIONS WITH STRUCTURAL FOR FRAMING AND ADDITIONAL SUPPORTS REQUIRED PRIOR TO BEGINNING WORK.
- INSTALL ALL EQUIPMENT TO MAINTAIN ADEQUATE CLEARANCES PER MANUFACTURER'S REQUIREMENTS. PROVIDE OFFSETS AS NECESSARY TO FACILITATE.

HVAC ABBREVIATIONS:

ABS	ABSOLUTE	L	LENGTH
AD	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
AF	AIR FILTER	LBS	POUNDS
AFD	ADJUSTABLE FREQUENCY DRIVE	LH	LATENT HEAT
AFF	ABOVE FINISHED FLOOR	LIQ	LIQUID
AFMS	AIR FLOW MONITORING STATION	LPC	LOW PRESSURE CONDENSATE
AHU	AIR HANDLING UNIT	LPS	LOW PRESSURE STEAM
AMB	AMBIENT	LVT	LEAVING WATER TEMPERATURE
AP	ACCESS PANEL	MAX	MAXIMUM
APD	AIR PRESSURE DROP	MB	MIXING BOX
ARCH	ARCHITECT OR ARCHITECTURAL	MBH	THOUSANDS BTU/HR
ATC	AUTOMATIC TEMPERATURE CONTROL	MCA	MINIMUM CIRCUIT AMPACITY
ATM	ATMOSPHERIC	MD	MODULATING
ATV	ATMOSPHERIC VENT	MIN	MINIMUM
AUTO	AUTOMATIC	MOD	MOTOR OPERATED DAMPER
A/C	AIR CONDITION (ER) (ING)	MOP	MAXIMUM OVER CURRENT PROTECTION
B	BOILER	MPC	MEDIUM PRESSURE CONDENSATE
BBD	BOILER BLOW DOWN	MPS	MEDIUM PRESSURE STEAM
BC	BOTTOM CONNECTION	MU	MAKE-UP WATER
BDD	BACK DRAFT DAMPER	MWT	MEAN WATER TEMPERATURE
BFW	BOILER FEED WATER	M/A	MAKE-UP AIR
BFP	BACK FLOW PREVENTER	N/C	NOT APPLICABLE
BHP	BRAKE HORSEPOWER	NC	NOISE CRITERIA
BTD	BOTTOM OF DUCT	NEC	NATIONAL ELECTRICAL CODE
BTU	BRITISH THERMAL UNIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C	CONDENSER	N.I.C.	NOT IN CONTRACT
CA	COMPRESSED AIR	NTS	NOT TO SCALE
CAB	CABINET	N/O	NORMALLY CLOSED
CC	COOLING COIL	N/O	NORMALLY OPEN
CCC	COOLING COIL CONDENSATE	OD	OPPOSED BLADE DAMPER
CD	CEILING DIFFUSER	OED	OPEN ENDED DUCT
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CI	CAST IRON	O/A	OUTSIDE AIR
CO	CLEANOUT	P	PUMP
COND	CONDENSATE	PBD	PARALLEL BLADE DAMPER
CONN	CONNECTION	P.C.	PLUMBING CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE	PD	PRESSURE DROP
CU	CONDENSING UNIT	PNEU	PNEUMATIC
CUH	CABINET UNIT HEATER	PNL	PANEL
CV	CONSTANT VOLUME	POS	POSITION
CW	COLD WATER (DOMESTIC)	PRESS	PRESSURE
D	DRAIN	PRV	PRESSURE RELIEF VALVE
DB	DECIBEL	PSI	POUNDS PER SQUARE INCH
D.b.	DRY BULB	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DC	DUCT COIL	(R)	REMOVE
DD	DUAL DUCT	RAF	RETURN AIR FAN
DEG	DEGREE	RFB	RUN BELOW FLOOR
DIA	DIAMETER	RD	ROOF DRAIN
DIV	DIVISION	RH	RELIEF AIR FAN
DN	DOWN	RF	RELATIVE HUMIDITY
DP	DIFFERENTIAL PRESSURE SENSOR	RL	REFRIGERANT LIQUID
DPR	DAMPER	RLA	RATED LOAD AMPS
DPT	DEW POINT TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
DTL	DETAIL	RRP	REFRIGERANT RELIEF PIPING
DTR	DUAL TEMPERATURE RETURN	RS	REFRIGERANT SUCTION
DTS	DUAL TEMPERATURE SUPPLY	RTU	ROOF TOP UNIT
DWG.	DRAWING	R/A	RETURN AIR
DX	DIRECT EXPANSION	SAN	SANITARY
(E)	EXISTING	SD	SMOKE DETECTOR
EAT	ENTERING AIR TEMPERATURE	SENS	SENSIBLE
E.C.	ELECTRICAL CONTRACTOR	SF	SUPPLY AIR FAN
EDH	ELECTRIC DUCT HEATER	SH	SENSIBLE HEAT
EER	ENERGY EFFICIENCY RATIO	SL	SOUND LINING
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFF	EFFICIENCY	SPEC	SPECIFICATION
ENT	ENTERING	SS	STAINLESS STEEL
ER	EXHAUST REGISTER	STD	STANDARD
ESP	EXTERNAL STATIC PRESSURE	STM	STEAM
ET	EXPANSION TANK	SYS	SYSTEM
EWI	ENTERING WATER TEMPERATURE	S/A	SUPPLY AIR
F	FAN	TEMP	TEMPERATURE
F&T	FLOAT & THERMOSTATIC	TOS	TOP OF STEEL
FC	FAN COIL	TSP	TOTAL STATIC PRESSURE
FD	FIRE DAMPER	T STAT	THERMOSTAT
FLA	FULL LOAD AMPS	TYP.	TYPICAL
FPM	FEET PER MINUTE	UCD	UNDER CUT DOOR
FTR	FINNED TUBE RADIATION	UH	UNIT HEATER
FPS	FEET PER SECOND	UL	UNDERWRITERS LABORATORIES
FT	FEET	U.N.O	UNLESS NOTED OTHERWISE
F&BP	FACE & BY-PASS	UV	UNIT VENTILATORS
GAL	GALLONS	V	VALVE
G.C.	GENERAL CONTRACTOR	VAC	VACUUM
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME
GRV	GRAVITY ROOF VENTILATOR	VD	VOLUME DAMPER
GVR	GAS VENT RELIEF	VEL	VELOCITY
H	HOOD	VOL	VOLUME
H.C.	HVAC CONTRACTOR	W	WIDTH
HD	HEAD	WAC	WINDOW AIR CONDITIONER
HP	HORSEPOWER	w.b.	WET BULB
HPC	HIGH PRESSURE CONDENSATE	WC	WATER COLUMN
HPS	HIGH PRESSURE STEAM	WG	WATER GAUGE
HRU	HEAT RECOVERY UNIT	WPD	WATER PRESSURE DROP
HT	HEIGHT	WT	WEIGHT
HTO	HEATING	W/	WITH
HUMID	HUMIDIFIER	W/O	WITHOUT
HW	HEATING WATER		
HWC	HEATING WATER COIL		
HWR	HEATING WATER RETURN		
HWS	HEATING WATER SUPPLY		
HX	HEAT EXCHANGER		
HZ	HERTZ		
ID	INSIDE DIAMETER		
IN	INCHES		
INTL	INTERLOCK		
KW	KILOWATT		

REFERENCE DIMENSION



Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-9959
 www.gillan-hartmann.com | ghillan@gillan-hartmann.com
 G&H Project No. 2018-204

02/15/2019
 ISSUED FOR BID

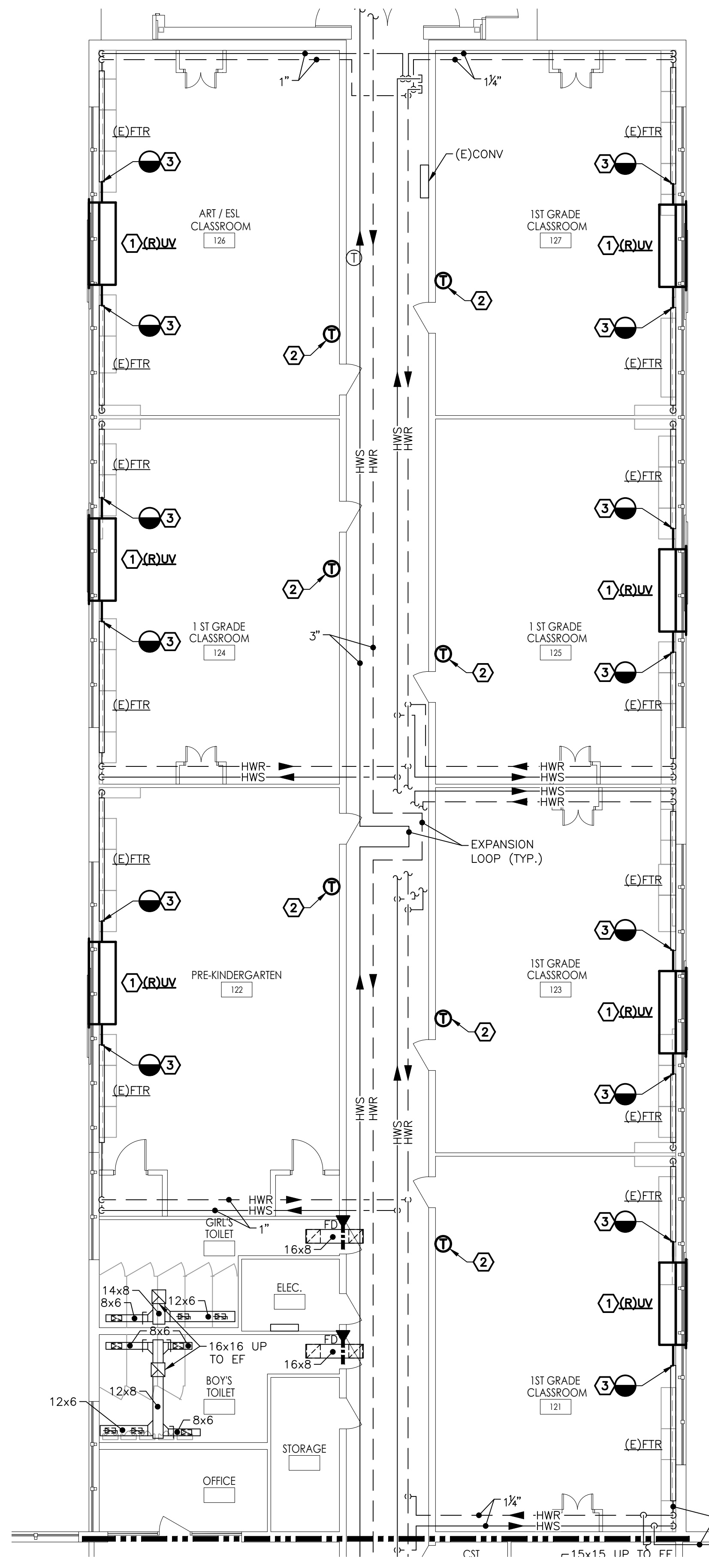
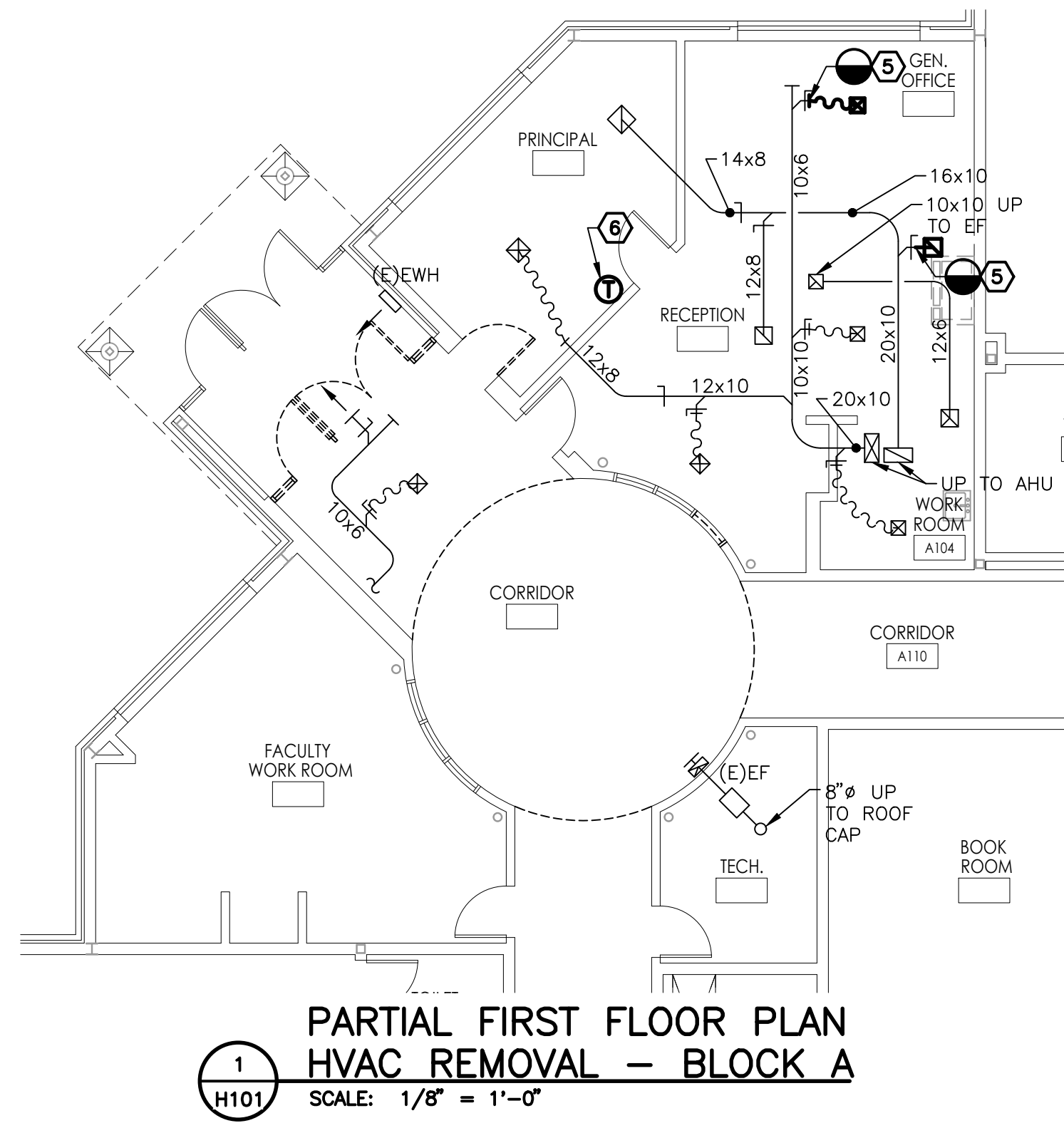
ENGINEER: MICHAEL S. GILLAN, PE
 DATE: NO. 24GE04470000

GFVH D architects planners
 Fraytak Veisz Hopkins Dutrie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 19381
 F V H D P C . C O M

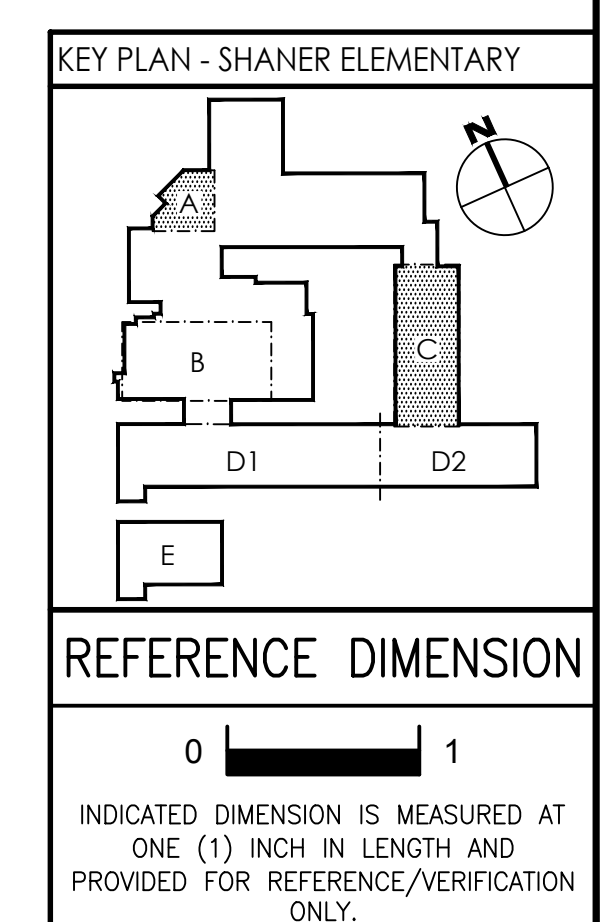
Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
 Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
 Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330
 Project Number: 4937B
 Project Date: 02.15.2019
 Checked By: TJB
 Drawn By: HJB
 Scale: AS NOTED
 Drawing Name: HVAC GENERAL NOTES, LEGENDS, & ABBREVIATIONS
 SHANER E.S.
 Revisions: No. Date Description

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL
 Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
 Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330
 Project Number: 4937B
 Project Date: 02.15.2019
 Checked By: TJB
 Drawn By: HJB
 Scale: AS NOTED
 Drawing Name: HVAC GENERAL NOTES, LEGENDS, & ABBREVIATIONS
 SHANER E.S.
 Revisions: No. Date Description
 Drawing Number: H001

FILE PATH: E:\Projects\2018\201804_Hsh_Joseph_Shaner_Elementary_School\Drawings\HVAC_Gen_Notes_Abbreviations_Legend_Shaner.dwg
 User: S.M.C. 2/15/2019 8:42 AM PLOTTED BY: TML
 © 2018 GILLAN & HARTMANN, INC.



- REMOVAL NOTES:**
- DISCONNECT AND REMOVE EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING AS INDICATED INCLUDING ASSOCIATED CONTROLS, LOUVERS, WALL BOXES, ACCESSORIES, INSULATION, VALVES AND ANY ADDITIONAL ASSOCIATED APPURTENANCES. COORDINATE REMOVAL WITH ELECTRICAL AND GENERAL CONSTRUCTION CONTRACTORS FOR ALL POWER WIRING DEMOLITION WORK. REFER TO ARCHITECTURAL DOCUMENTS FOR LOUVER REMOVAL & WALL PATCHING.
 - DISCONNECT AND REMOVE EXISTING THERMOSTATS AND WALL SENSORS, INCLUDING SUB-BASES, WALL PLATES AND ASSOCIATED PNEUMATIC TUBING/WIRING BACK TO THE MAINS/JUNCTION BOXES. CAP AND SEAL PNEUMATIC TUBING AIRTIGHT. PATCH WALL TO MATCH EXISTING.
 - DISCONNECT EXISTING HEATING WATER SUPPLY AND RETURN PIPING AS INDICATED, INCLUDING INSULATION, SUPPORTS, HANGERS, VALVES, FITTINGS, UNIONS, ESCUTCHEONS AND ALL ASSOCIATED APPURTENANCES TO LOCATIONS INDICATED. REFER TO NEW WORK PLANS FOR NEW PIPING CONNECTIONS. WHERE NEW WORK IS NOT UTILIZING THE EXISTING OPENING, PATCH PENETRATIONS TO MATCH EXISTING CONSTRUCTION AND FINISH. WHERE EXISTING PIPING EXTENDS THRU THE FLOOR REMOVE PIPING AS REQUIRED TO FACILITATE A NEW FLOOR CONNECTION.
 - PRIOR TO THE START OF CONSTRUCTION (REMOVAL OR NEW WORK) PROVIDE A PRE-CONSTRUCTION MEASUREMENT AT THE EXISTING SYSTEM COMPONENTS INDICATED. SUBMIT A REPORT INDICATING FLOW AND PRESSURE LOSS.
 - DISCONNECT AND REMOVE EXISTING DIFFUSER, DUCTWORK, FLEXIBLE DUCT, AND ADDITIONAL APPURTENANCES. CAP DUCTWORK AT MAIN.
 - DISCONNECT EXISTING THERMOSTAT. REMOVE/EXTEND WIRING AS REQUIRED TO INSTALL THERMOSTAT IN NEW LOCATION. REFER TO NEW WORK PLANS.



Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghmail@gillan-hartmann.com
 Cert. of Auth. #24027932400 G&H Project No. 2018-204

02/15/2019
 ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

FVHHD architects planners
 Fraytak Veisz Hopkins Dutchie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
 F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
 NJ 214266001 PA 80020198
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ 214266003 PA 80020204
 GEORGE R. DUTCHIE, JR., AIA, PP
 NJ 214267200

Project Name
 ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
 HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
 5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
 4937B
 Project Date
 02.15.2019
 Checked By
 TJB
 Drawn By
 HJB
 Scale
 AS NOTED

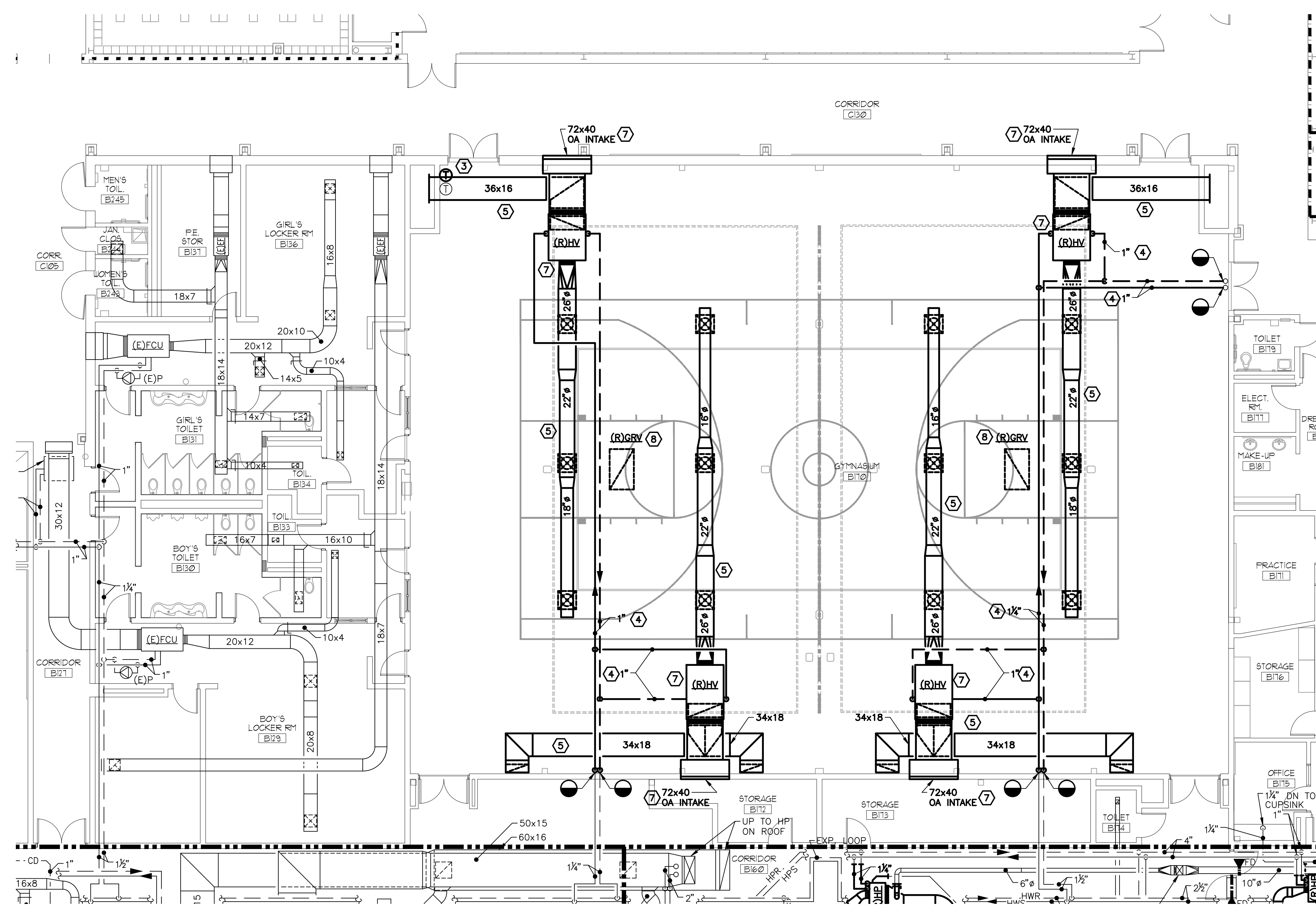
Drawing Name
 PARTIAL BASEMENT & FIRST FLOOR PLANS: PLUMBING HVAC - BLOCKS A & C

SHANER E.S.

Revisions		
No.	Date	Description

Drawing Number
H101

FILE PATH: E:\Projects\2018\201804_HTSO_Joseph_Shaner_ES_Renovations\Drawings\WAC_Renovations_Shaner.dwg
 USER: SAGD Date: 2019/02/15 02:33 PM PLOTTED BY: TML

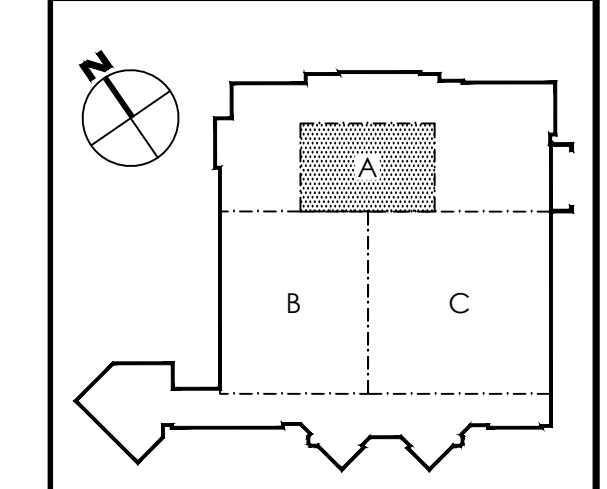


1
H101
PARTIAL FIRST FLOOR PLAN
HVAC REMOVAL - BLOCK A
SCALE: 1/8" = 1'-0"

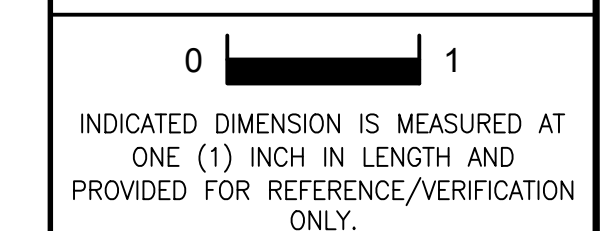
REMOVAL NOTES:

- 1 NOT USED.
- 2 NOT USED.
- 3 DISCONNECT AND REMOVE EXISTING THERMOSTATS AND WALL SENSORS, INCLUDING SUB-BASES, WALL PLATES, AND ASSOCIATED PNEUMATIC TUBING/WIRING BACK TO THE MAINS/JUNCTION BOXES. CAP AND SEAL PNEUMATIC TUBING AIRTIGHT. PATCH WALL TO MATCH EXISTING.
- 4 DISCONNECT AND REMOVE EXISTING PIPING IN ITS ENTIRETY INCLUDING INSULATION, SUPPORTS, HANGERS, VALVES, FITTINGS, UNIONS, ESCUTCHEONS AND ALL ASSOCIATED APPURTENANCES TO LOCATIONS INDICATED. CAP PIPING AT MAIN. COORDINATE REMOVAL OF PIPING WITH EXISTING CONSTRUCTION AND ALL OTHER TRADE WORK. WHERE NEW WORK IS NOT UTILIZING THE EXISTING OPENING, PATCH PENETRATIONS TO MATCH EXISTING CONSTRUCTION AND FINISH. REFER TO NEW WORK NOTES FOR ADDITIONAL COORDINATION.
- 5 DISCONNECT AND REMOVE EXISTING DUCTWORK INCLUDING ALL ASSOCIATED SUPPORTS, HANGERS, INSULATION, DAMPERS, GRILLES, REGISTERS, FLEXIBLE CONNECTIONS, FLEXIBLE DUCTWORK AND ALL ASSOCIATED APPURTENANCES TO LOCATIONS INDICATED. COORDINATE REMOVAL OF DUCTWORK WITH EXISTING CONSTRUCTION AND ALL OTHER TRADE WORK. WHERE NEW WORK IS NOT UTILIZING THE EXISTING OPENING, PATCH PENETRATIONS. REFER TO NEW WORK NOTES FOR ADDITIONAL COORDINATION.
- 6 NOT USED.
- 7 DISCONNECT AND REMOVE EXISTING HEATING AND VENTILATING UNIT IN ITS ENTIRETY INCLUDING ALL ASSOCIATED SUPPORTS, HANGERS, BASE RAILS, DUCTWORK, FLEXIBLE DUCTWORK, PIPING, INSULATION, VALVES, CONTROLS, WIRING, AND ALL ASSOCIATED APPURTENANCES. INSULATION AND CONCRETE BLOCKING TO MATCH EXISTING TO BLOCK EXISTING LOUVER. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION.
- 8 DISCONNECT AND REMOVE EXISTING GRAVITY VENT AND ALL ASSOCIATED DUCTWORK, DAMPERS, AND ADDITIONAL APPURTENANCES. REFER TO ROOF REMOVAL PLANS FOR ADDITIONAL INFORMATION.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION



INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghmail@gillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE
DATE: NO. 24GE04470000

FVHHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
NO. 214866001 PA 06020198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866001 PA 06020204
GEORGE R. DUTRIE, JR., AIA, PP
NO. 214866001 PA 06020204

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

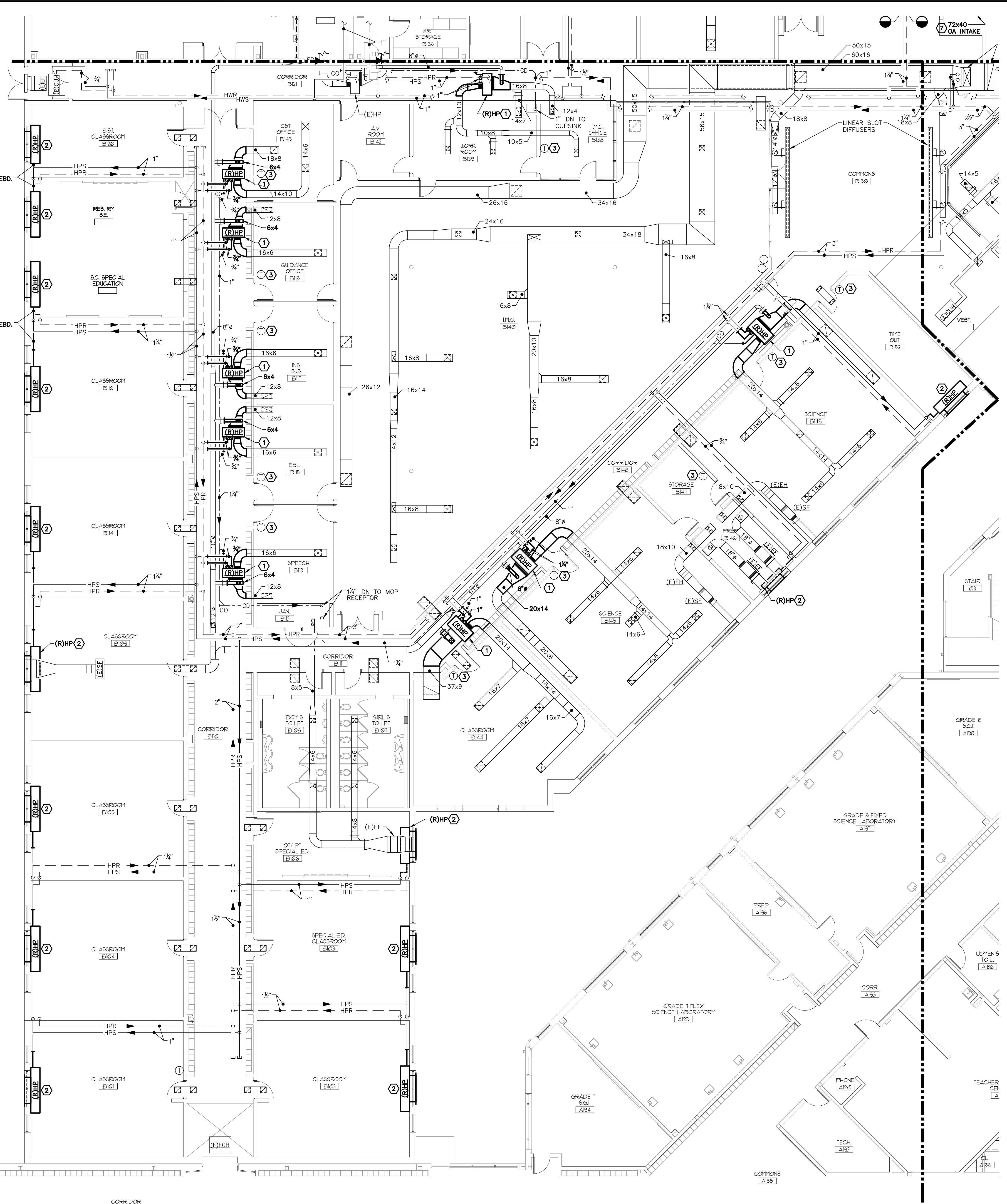
Drawing Name
PARTIAL FIRST FLOOR PLAN: HVAC REMOVALS - BLOCK A

DAVIES M.S.

Revisions		
No.	Date	Description

Drawing Number
H101

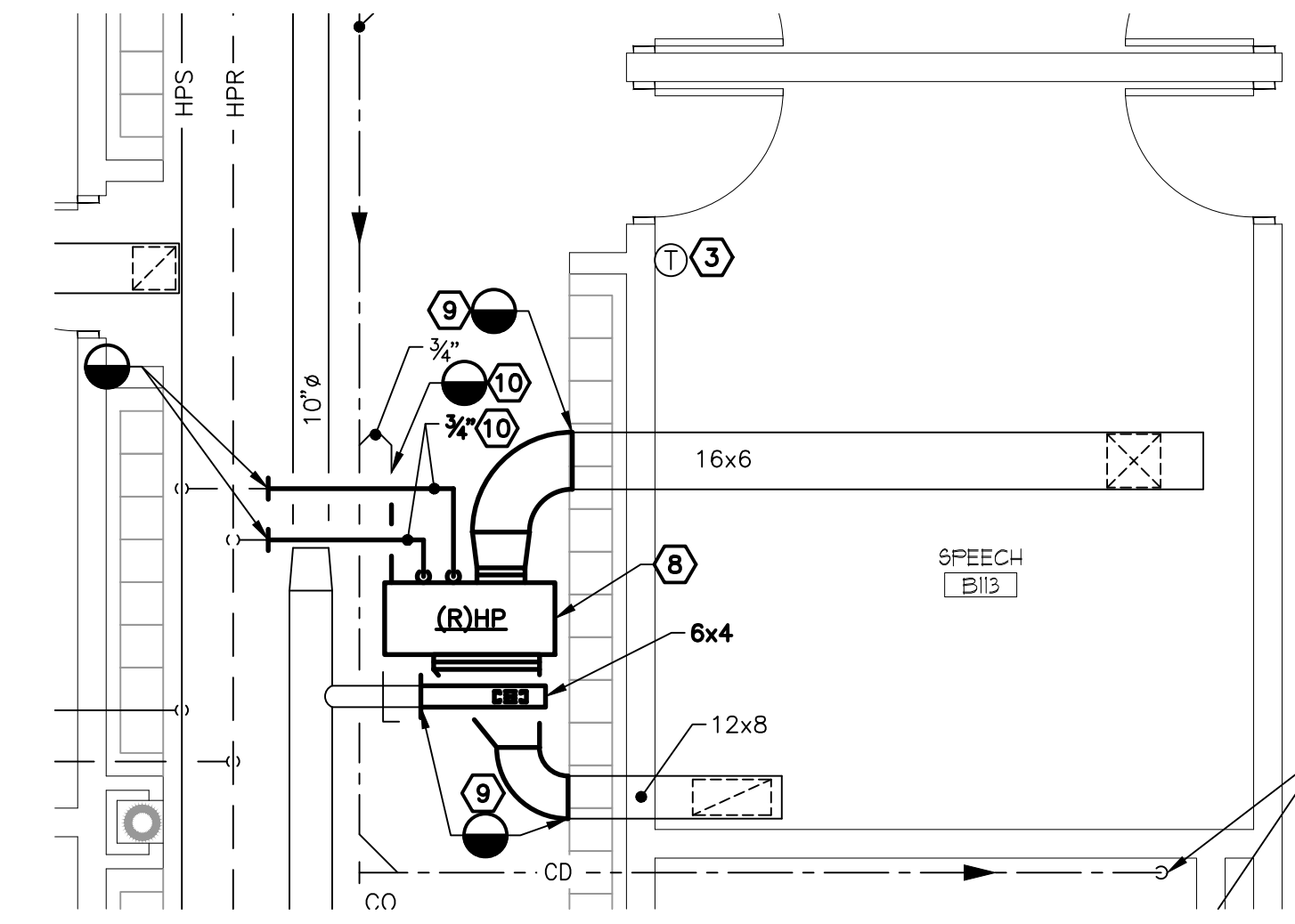
FILE PATH: C:\projects\2018\02152019\H101 William Davies MS Renovations Drawings\HVAC Removals Drawings.dwg
LAST SAVED: 2019/02/15 08:36 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



1
H102
PARTIAL FIRST FLOOR PLAN
HVAC REMOVAL - BLOCK B
SCALE: 1/8" = 1'-0"

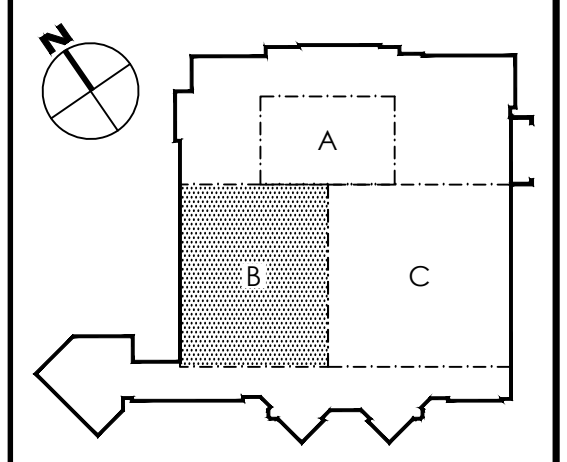
REMOVAL NOTES:

- 1 DISCONNECT AND REMOVE EXISTING WATER SOURCE HEAT PUMP AS INDICATED. REMOVE ASSOCIATED DUCTWORK AND PIPING REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WATER SOURCE HEAT PUMP. REFER TO NEW WORK PLANS AND TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP REMOVAL DETAIL ON DRAWING H102 FOR ADDITIONAL INFORMATION.
- 2 DISCONNECT AND REMOVE THE EXISTING WATER SOURCE HEAT PUMP AS INDICATED. REMOVE ALL ASSOCIATED CONTROLS, LOUVERS, WALL BOXES, ACCESSORIES, INSULATION, VALVES AND ANY ADDITIONAL ASSOCIATED APPURTENANCES IN ORDER TO FACILITATE THE NEW WATER SOURCE HEAT PUMP. COORDINATE REMOVAL WITH ELECTRICAL AND GENERAL CONSTRUCTION CONTRACTORS FOR ALL POWER WIRING DEMOLITION WORK. REFER TO ARCHITECTURAL DOCUMENTS FOR LOUVER REMOVAL & WALL PATCHING.
- 3 DISCONNECT EXISTING THERMOSTAT FROM THE ASSOCIATED UNIT CONTROLS. REMOVE ASSOCIATED WIRING BETWEEN THE ASSOCIATED UNIT AND THERMOSTAT. EXISTING THERMOSTAT TO REMAIN FOR MONITORING PURPOSES. REFER TO NEW WORK PLANS.
- 4 NOT USED.
- 5 NOT USED.
- 6 PRIOR TO THE START OF CONSTRUCTION (REMOVAL OR NEW WORK) PROVIDE A PRE-CONSTRUCTION MEASUREMENT AT THE EXISTING SYSTEM COMPONENTS INDICATED. SUBMIT A REPORT INDICATING FLOW AND PRESSURE LOSS.
- 7 NOT USED.
- 8 DISCONNECT AND REMOVE THE EXISTING WATER SOURCE HEAT PUMP. REMOVE ALL ASSOCIATED HANGERS, SUPPORTS, VIBRATION ISOLATION.
- 9 DISCONNECT AND REMOVE EXISTING PIPING AS REQUIRED IN ORDER TO FACILITATE THE INSTALLATION OF THE NEW WATER SOURCE HEAT PUMP. REMOVE ALL ASSOCIATED INSULATION, SUPPORTS, HANGERS, VALVES, FITTINGS, UNIONS, ESCUTCHEONS AND ALL ADDITIONAL APPURTENANCES. REFER TO NEW WORK PLANS.
- 10 DISCONNECT AND REMOVE EXISTING DUCTWORK AS REQUIRED IN ORDER TO FACILITATE THE INSTALLATION OF THE NEW WATER SOURCE HEAT PUMP. REMOVE ALL ASSOCIATED SUPPORTS, HANGERS, INSULATION, DAMPERS, FLEXIBLE CONNECTIONS, FLEXIBLE DUCTWORK, AND ALL ADDITIONAL APPURTENANCES. REFER TO NEW WORK PLANS.

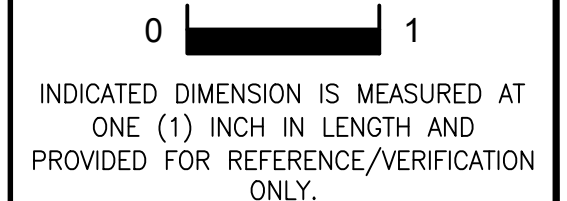


2
H102
DETAIL - TYPICAL HORIZONTAL
WATER SOURCE HEAT PUMP REMOVAL
SCALE: 1/4" = 1'-0"

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION



Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL
CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

FVH D architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Willbaker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTRIE, JR., AIA, PP

Project Name
ALTERATIONS AND
RENOVATIONS TO
WILLIAM DAVIES
MIDDLE SCHOOL

Project Owner Name
HAMILTON
TOWNSHIP BOARD
OF EDUCATION

Project Location
1876 DENNIS
FORMAN DR., MAYS
LANDING, NJ 08330

Project Number
4937C
Project Date
02.15.2019
Checked By
TJB
Drawn By
HJB
Scale
AS NOTED

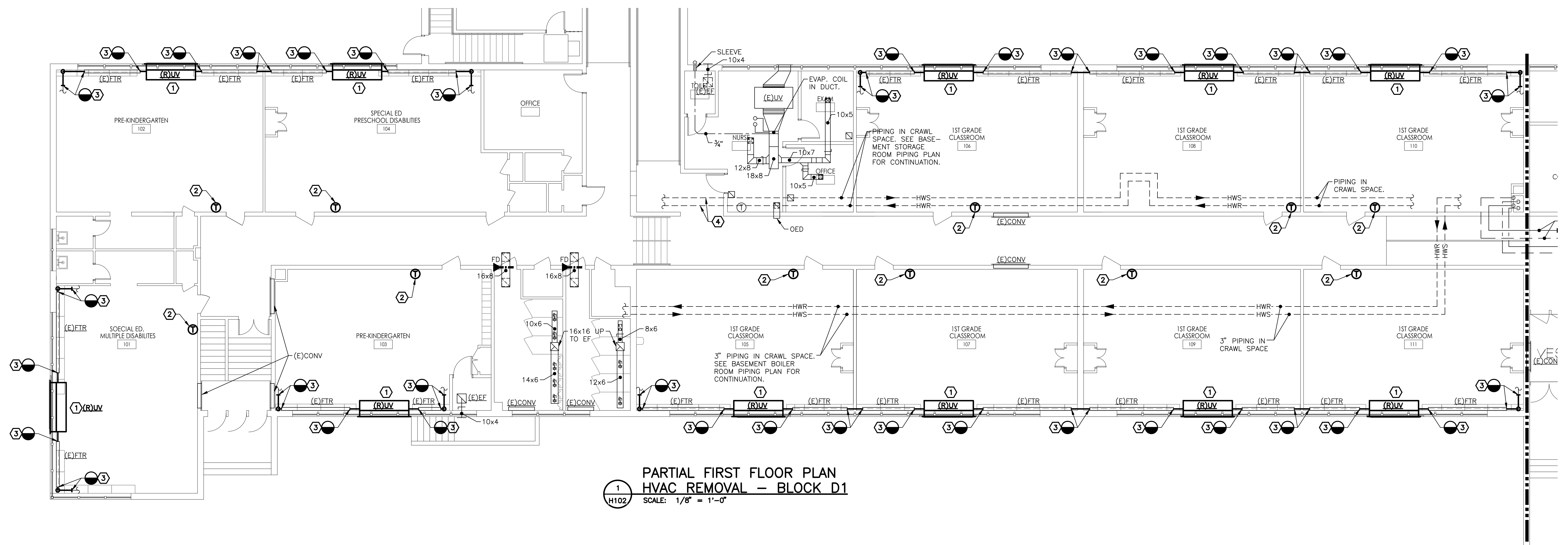
Drawing Name
PARTIAL FIRST
FLOOR PLAN:
HVAC REMOVALS -
BLOCK B

DAVIES M.S.

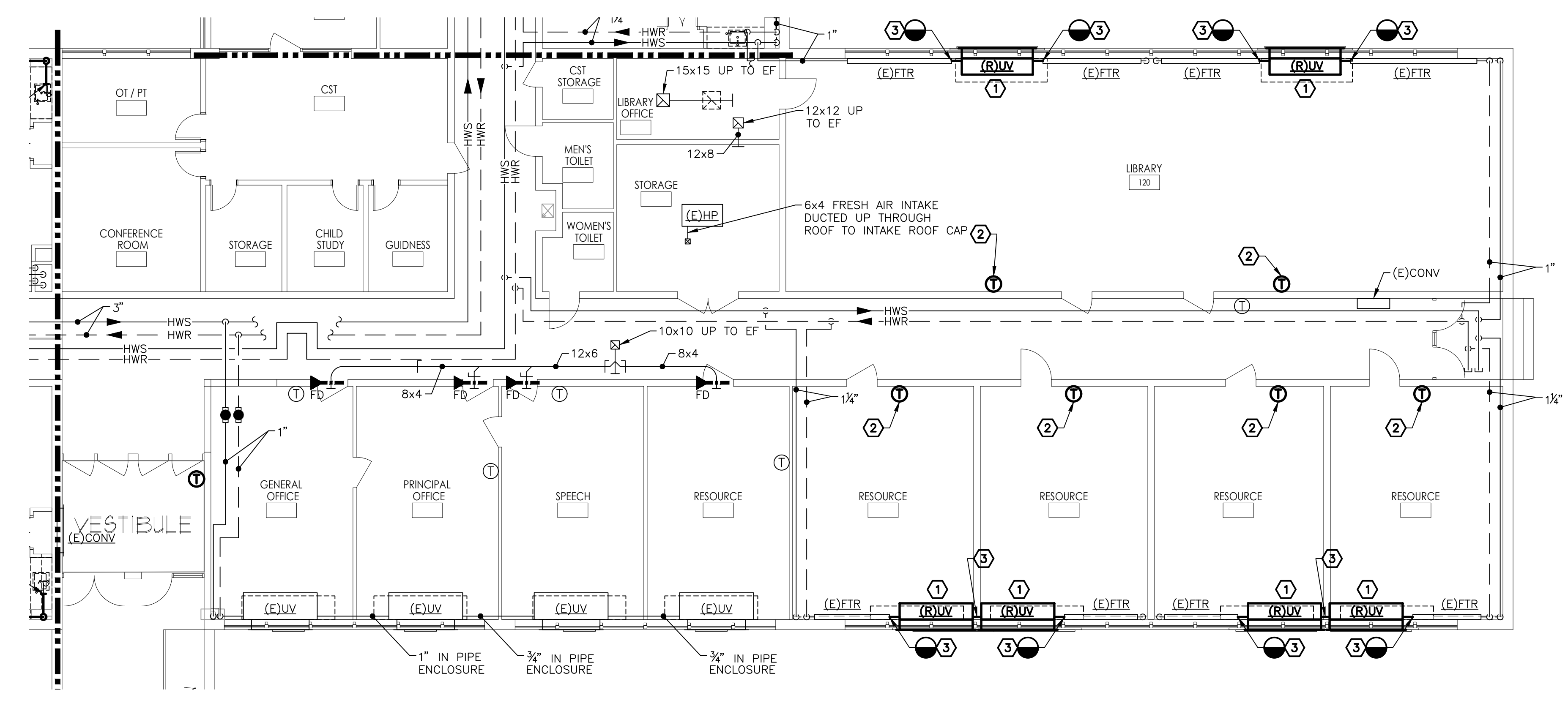
No.	Date	Description

Drawing Number
H102

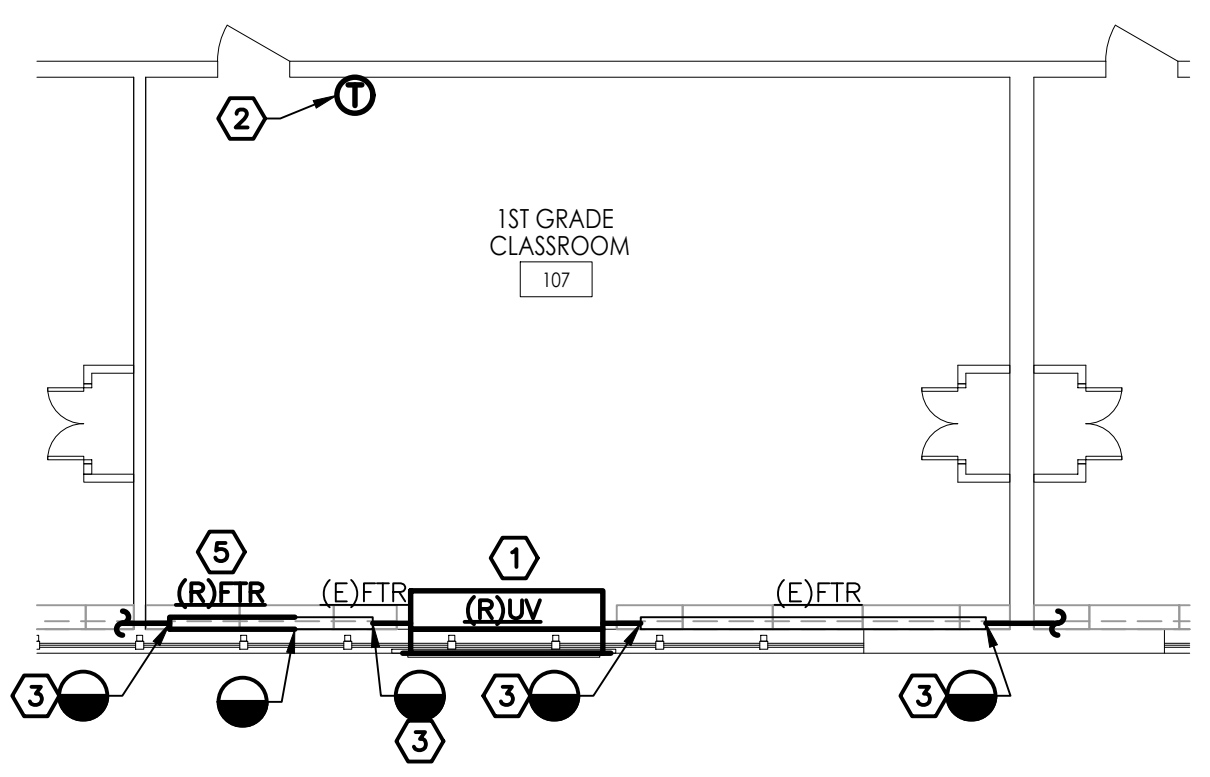
FILE PATH: C:\projects\2018\2018205_H102_William_Davies_MS_Renovations_HVAC_Removals_Davies.dwg
LAST SAVED: 2019/02/15 08:36 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



1
H102
PARTIAL FIRST FLOOR PLAN
HVAC REMOVAL - BLOCK D1
SCALE: 1/8" = 1'-0"



2
H102
PARTIAL FIRST FLOOR PLAN
HVAC REMOVAL - BLOCK D2
SCALE: 1/8" = 1'-0"

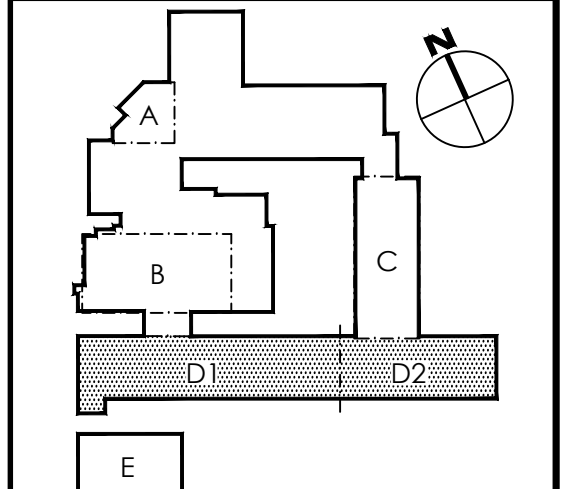


3
H102
PARTIAL FIRST FLOOR PLAN
HVAC REMOVAL - CORNER UV INSTALLATION
SCALE: 1/8" = 1'-0"

REMOVAL NOTES:

- 1 DISCONNECT AND REMOVE EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING AS INDICATED INCLUDING ASSOCIATED APPURTENANCES, LOUVERS, WALL BOXES, ACCESSORIES, INSULATION, VALVES AND ANY ADDITIONAL ASSOCIATED APPURTENANCES. COORDINATE REMOVAL WITH ELECTRICAL AND GENERAL CONSTRUCTION CONTRACTORS FOR ALL POWER WIRING DEMOLITION WORK. REFER TO ARCHITECTURAL DOCUMENTS FOR LOUVER REMOVAL & WALL PATCHING.
- 2 DISCONNECT AND REMOVE EXISTING THERMOSTATS AND WALL SENSORS, INCLUDING SUB-BASES, WALL PLATES AND ASSOCIATED PNEUMATIC TUBING/WIRING BACK TO THE MAINS/JUNCTION BOXES. CAP AND SEAL PNEUMATIC TUBING AIRTIGHT. PATCH WALL TO MATCH EXISTING.
- 3 DISCONNECT EXISTING HEATING WATER SUPPLY AND RETURN PIPING AS INDICATED. INCLUDING INSULATION, SUPPORTS, HANGERS, VALVES, FITTINGS, UNIONS, ESCUTCHEONS AND ALL ASSOCIATED APPURTENANCES TO LOCATIONS INDICATED. REFER TO NEW WORK PLANS FOR NEW PIPING CONNECTIONS. WHERE NEW WORK IS NOT UTILIZING THE EXISTING OPENING, PATCH PENETRATIONS TO MATCH EXISTING CONSTRUCTION AND FINISH. WHERE EXISTING PIPING EXTENDS THRU THE FLOOR REMOVE PIPING AS REQUIRED TO FACILITATE A NEW FLOOR CONNECTION.
- 4 PRIOR TO THE START OF CONSTRUCTION (REMOVAL OR NEW WORK) PROVIDE A PRE-CONSTRUCTION MEASUREMENT AT THE EXISTING SYSTEM COMPONENTS INDICATED. SUBMIT A REPORT INDICATING FLOW AND PRESSURE LOSS.
- 5 DISCONNECT AND REMOVE EXISTING FINNED TUBE RADIATOR AS INDICATED TO FACILITATE THE INSTALLATION OF THE NEW UNIT VENTILATOR. REMOVE ASSOCIATED PIPING INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, VALVES, INSULATION, AND ANY ADDITIONAL APPURTENANCES.

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com | ghillan@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER
MICHAEL S. GILLAN, PE
DATE
NO. 24GE04470000

GFVH D architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Willbaker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
NO. 214866001 PA 80020788
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866001 PA 80020788
GEORGE R. DUTRIE, JR., AIA, PP
NO. 214866001 PA 80020788

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
TJB
Drawn By
HJB
Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLANS: HVAC REMOVALS - BLOCKS D1 & D2
SHANER E.S.

Revisions
No. Date Description
H102

FILE PATH: E:\Projects\2018\201804_H102_Shaner_Elementary\Drawings\Drawings\Drawings\Shaner.dwg
LAST SAVED: 2019/02/15 02:33 PM PLOTTED: 2019/02/15 05:23 PM PLOTTED BY: TML



- REMOVAL NOTES:**
- DISCONNECT AND REMOVE EXISTING WATER SOURCE HEAT PUMP AS INDICATED. REMOVE ASSOCIATED DUCTWORK AND PIPING REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WATER SOURCE HEAT PUMP. REFER TO NEW WORK PLANS AND TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP REMOVAL DETAIL ON DRAWING H102 FOR ADDITIONAL INFORMATION.
 - DISCONNECT AND REMOVE THE EXISTING WATER SOURCE HEAT PUMP AS INDICATED. REMOVE ALL ASSOCIATED CONTROLS, LOUVERS, WALL BOXES, ACCESSORIES, INSULATION, VALVES AND ANY ADDITIONAL ASSOCIATED APPURTENANCES IN ORDER TO FACILITATE THE NEW WATER SOURCE HEAT PUMP. COORDINATE REMOVAL WITH ELECTRICAL AND GENERAL CONSTRUCTION CONTRACTORS FOR ALL POWER WIRING DEMOLITION WORK. REFER TO ARCHITECTURAL DOCUMENTS FOR LOUVER REMOVAL & WALL PATCHING.
 - DISCONNECT EXISTING THERMOSTAT FROM THE ASSOCIATED UNIT CONTROLS. REMOVE ASSOCIATED WIRING BETWEEN THE ASSOCIATED UNIT AND THERMOSTAT. EXISTING THERMOSTAT TO REMAIN FOR MONITORING PURPOSES. REFER TO NEW WORK PLANS.
 - NOT USED.
 - NOT USED.
 - PRIOR TO THE START OF CONSTRUCTION (REMOVAL OR NEW WORK) PROVIDE A PRE-CONSTRUCTION MEASUREMENT AT THE EXISTING SYSTEM COMPONENTS INDICATED. SUBMIT A REPORT INDICATING FLOW AND PRESSURE LOSS.

JOHN J. VEIZ, AIA, CSEA
 WILLIAM D. HOPKINS III, AIA, LEED AP
 GEORGE R. DUTHIE, JR., AIA, PP

FVHD architects
 planners
Fraytak Veisz Hopkins Duthie P C

Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Williker Ave - Mont Clair - Pennsylvania 19453

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

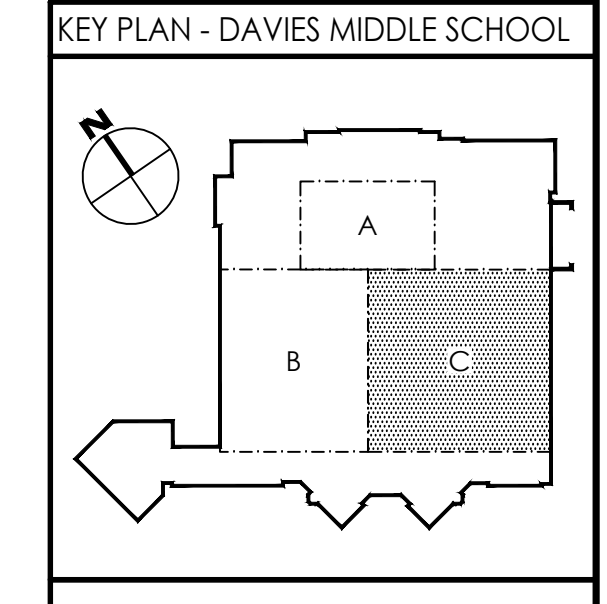
Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: HVAC REMOVALS - BLOCK C

DAVIES M.S.

Revisions		
No.	Date	Description

Drawing Number
H103



REFERENCE DIMENSION

0 1

INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

PARTIAL FIRST FLOOR PLAN HVAC REMOVAL - BLOCK C
 SCALE: 1/8" = 1'-0"

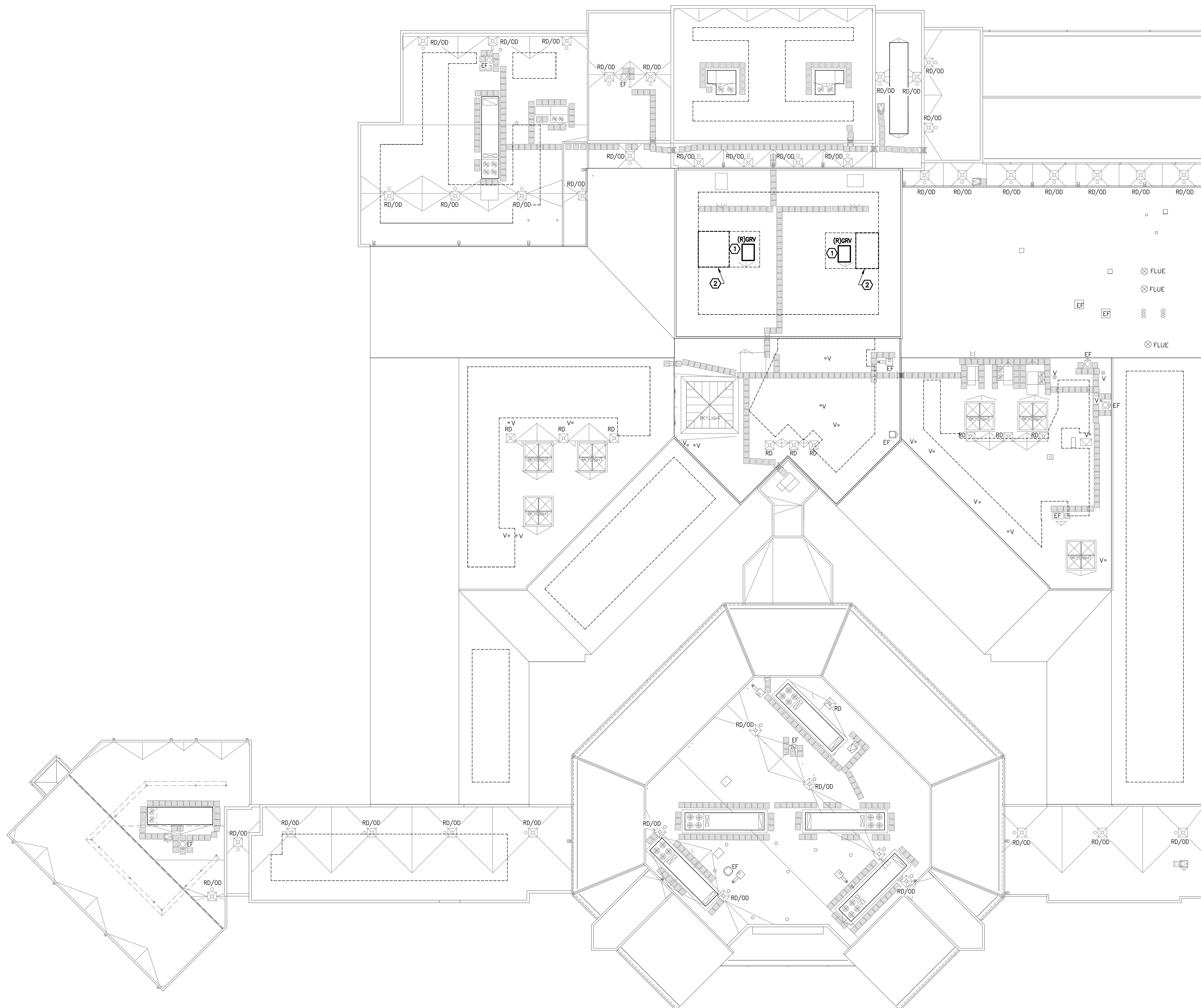
02/15/2019
 ISSUED FOR BID

Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-238-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com ghm@gillan-hartmann.com
 G&H Project No. 2018-205

ENGINEER
 MICHAEL S. GILLAN, PE

DATE
 NO. 24GE0470000

FILE PATH: C:\projects\2018\2018205_H103_William_Davies_Middle_School_Renovations_Drawing\Drawings\HVAC_Removals_Davies.ms
 LAST SAVED: 2019/02/15 08:36 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



REMOVAL NOTES:

- ① DISCONNECT AND REMOVE EXISTING ROOFTOP GRAVITY VENT/GOOSENECK IN ITS ENTIRETY INCLUDING BLOCKING, COUNTER FLASHING, WIRING, ACTUATOR, DUCTWORK, GRILLES, SUPPORTS, AND ALL ADDITIONAL APPURTENANCES. REMOVE PNEUMATIC TUBING BACK TO MAIN AND CAP AIRTIGHT. INFILL ROOF/MODIFY EXISTING OPENING AS REQUIRED TO FACILITATE THE NEW RTU. REFER TO NEW WORK PLANS AND ARCHITECTURAL DOCUMENTS.
- ② COORDINATE EXTENT OF SOLAR PANEL REMOVALS WITH THE ELECTRICAL CONTRACTOR TO FACILITATE NEW RTU INSTALLATION.

FVHD architects
planners
Fraytak Veisz Hopkins Dutrie P C

Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Williker Ave - Mont Clare - Pennsylvania 17453

F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
No. 2142666001 PA 80020198

WILLIAM D. HOPKINS III, AIA, LEED AP
No. 2142666001 PA 80020198

GEORGE R. DUTRIE, JR., AIA, PP
No. 2142666001 PA 80020198

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

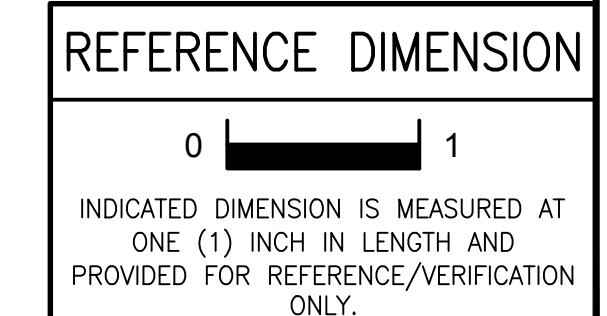
Scale
AS NOTED

Drawing Name
ROOF PLAN: HVAC REMOVALS

DAVIES M.S.

Revisions		
No.	Date	Description

Drawing Number
H121



H121 HVAC REMOVALS - ROOF PLAN
SCALE: 20' = 1'-0"

02/15/2019
ISSUED FOR BID

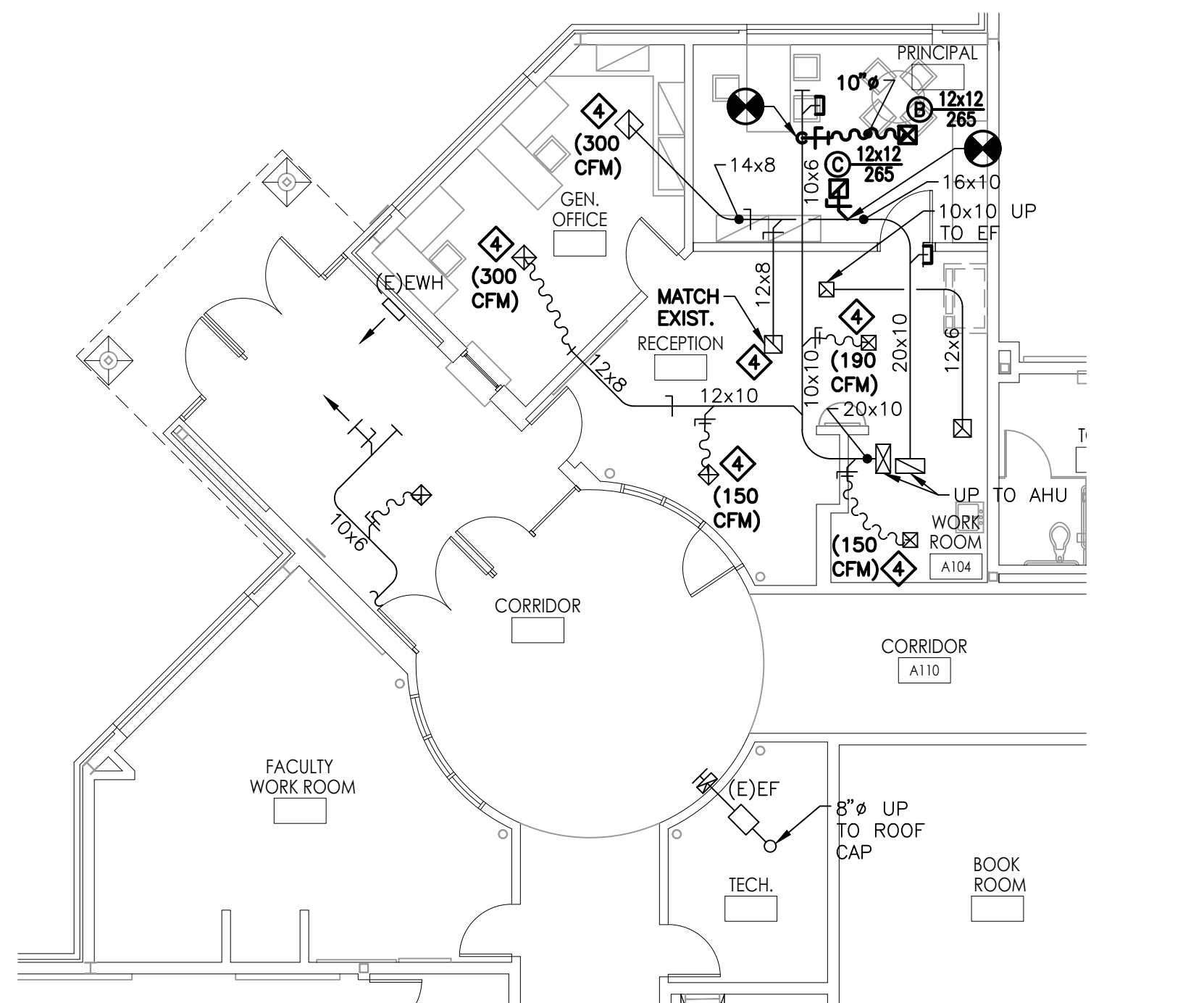
Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-205

ENGINEER
MICHAEL S. GILLAN, PE

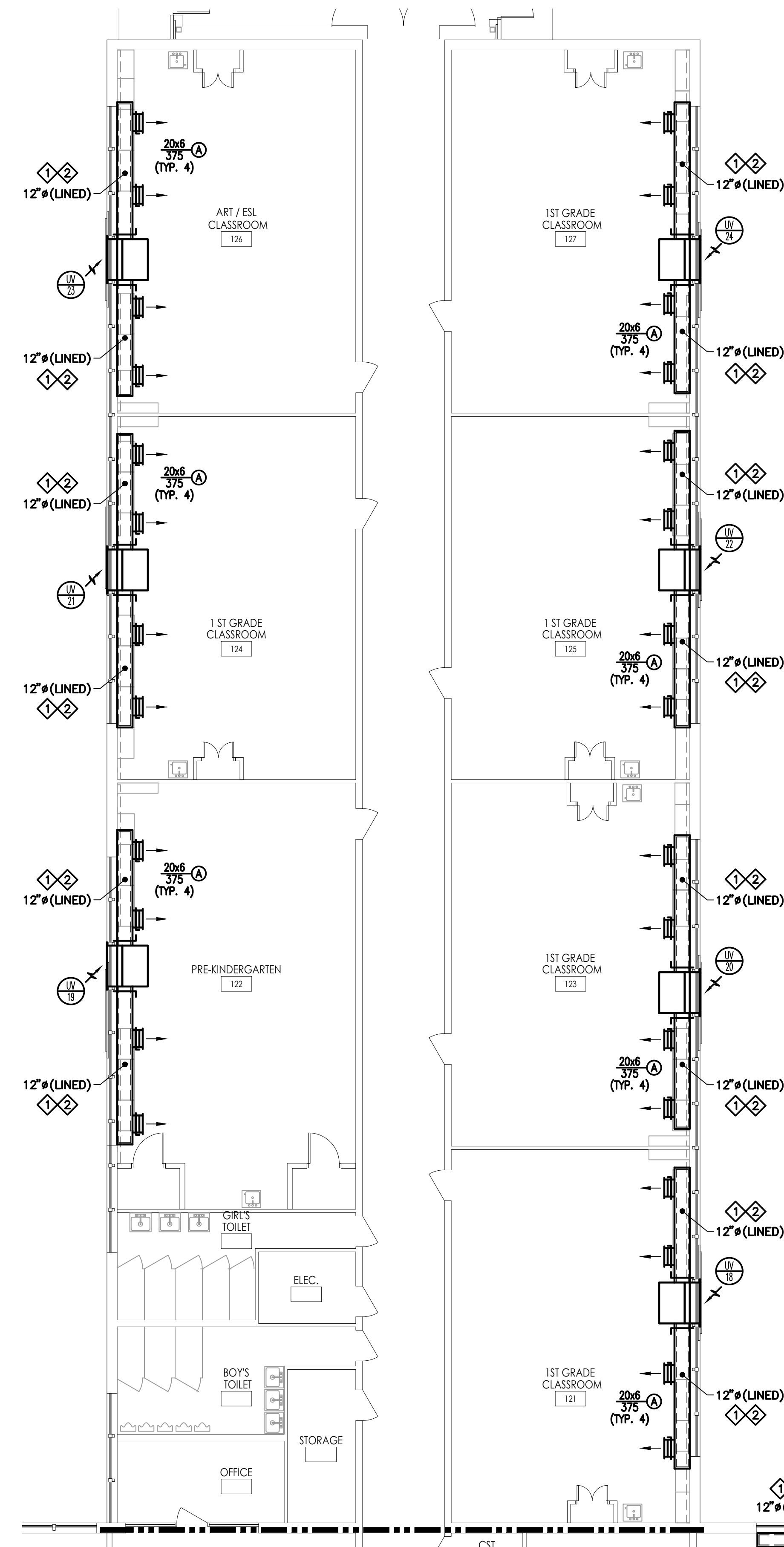
DATE
NO. 24GE04470000

© 2018 GILLAN & HARTMANN INC.

FILE PATH: C:\projects\2018\02152019\HSD_Millsom_Davies MS Renovations Drawings\WAC_Renovations_Roof_Drawing.dwg
 USER: MGC
 PLOTTED: 2019/02/15 08:43 AM
 PLOTTED BY: TML



1
H201
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK A - DUCTWORK
SCALE: 1/8" = 1'-0"

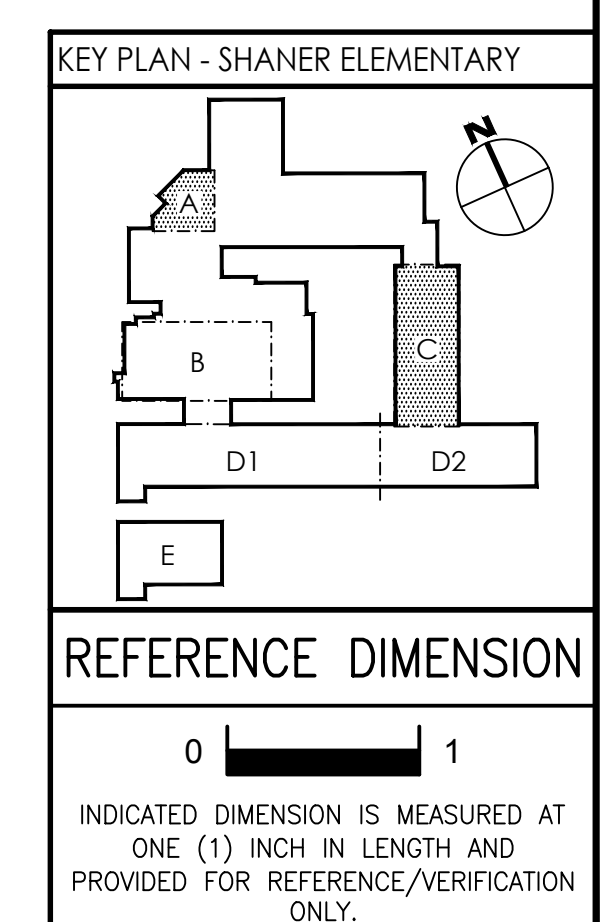


2
H201
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK PLAN - BLOCK C - DUCTWORK
SCALE: 1/8" = 1'-0"

NOTE: (E)FTR IS NOT INDICATED FOR CLARITY PURPOSES. REFER TO NEW WORK PIPING PLANS.

NEW WORK NOTES:

- ◆ PROVIDE LINED DUCTWORK WITH SMOOTH (NON-FLANGED) CONNECTIONS. REFER TO TYPICAL UNIT VENTILATOR SECTION FOR ADDITIONAL INFORMATION.
- ◆ INSTALL DUCTWORK TO ENSURE BOTTOM OF DUCT IS A MINIMUM OF 8'-0" ABOVE THE FINISHED FLOOR.
- ◆ PROVIDE WALL FILLER PANEL/CLOSURE PIECE. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION.
- ◆ BALANCE AIRFLOW TO THE INDICATED VALUE.



REFERENCE DIMENSION
0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

JOHN J. VEISZ, AIA, CSFA
NO. 214866001 PA. 80028198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866001 PA. 80028198
GEORGE R. DUTHIE, JR., AIA, PP
NO. 214866001 PA. 80028198

FVH D architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
140 Williker Ave - Mont Clear - Pennsylvania 17453
F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

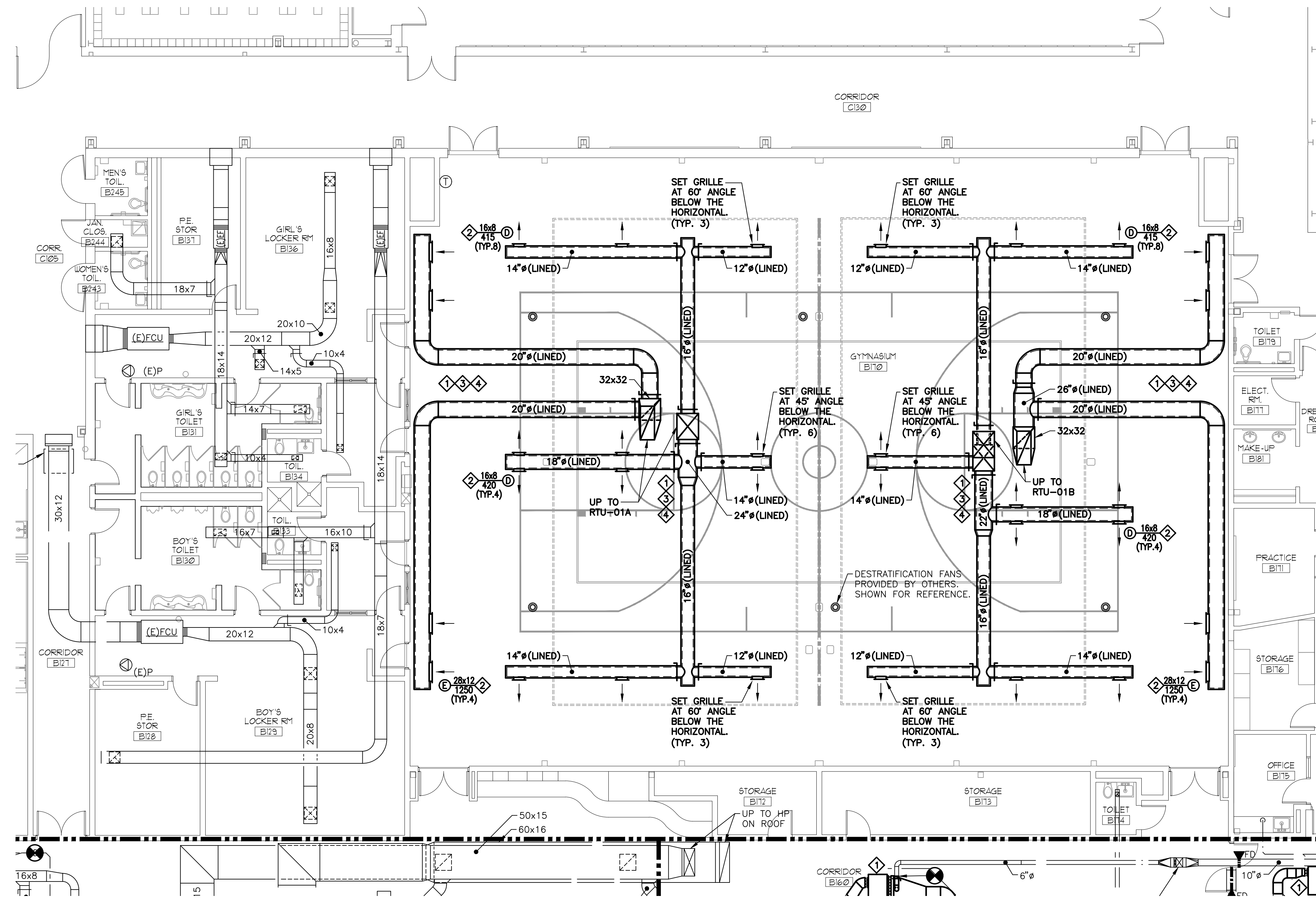
Drawing Name
PARTIAL BASEMENT & FIRST FLOOR PLANS: HVAC NEW WORK - BLOCKS A & C - DUCTWORK

SHANER E.S.

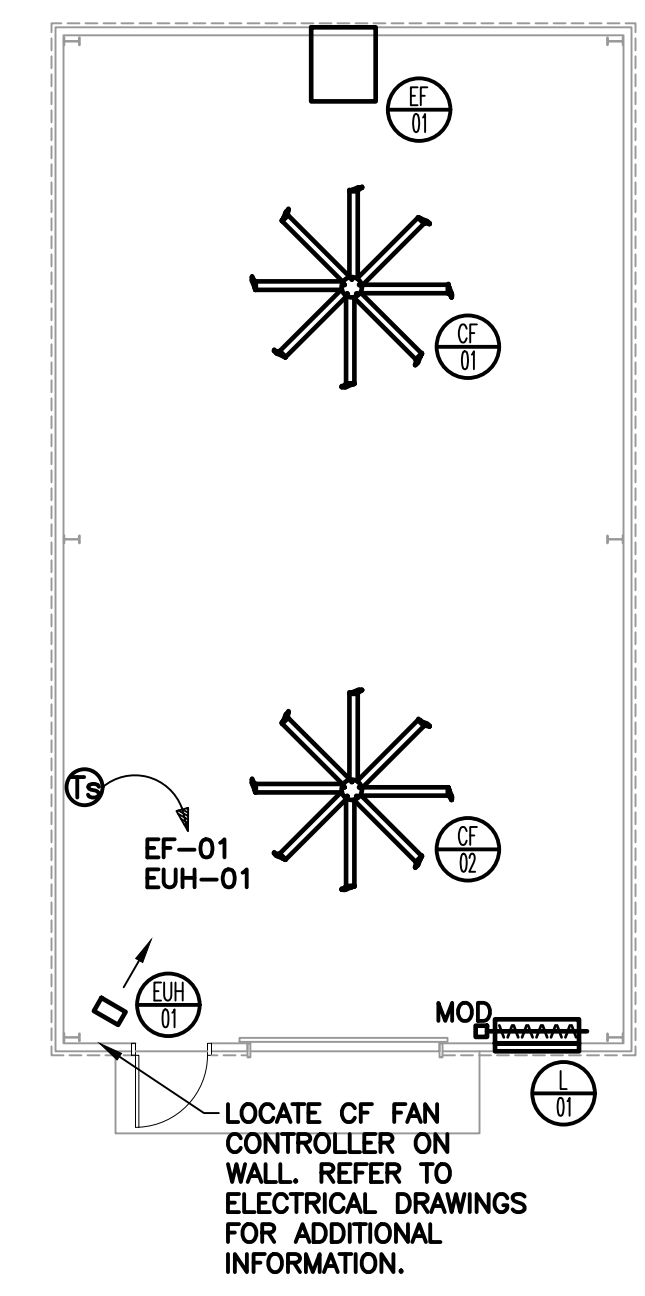
No.	Date	Description

Drawing Number
H201

FILE PATH: S:\Projects\2018\2018204_HTSO_Joseph_Shaner_ES_Renovations_Drawings\WAC_New_Work_Ductwork_Shaner.dwg
 USER: SHANER
 PLOTTED: 2019/02/15 01:41 PM
 PLOTTED BY: TML



1
H201
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK A - DUCTWORK
SCALE: 1/8" = 1'-0"

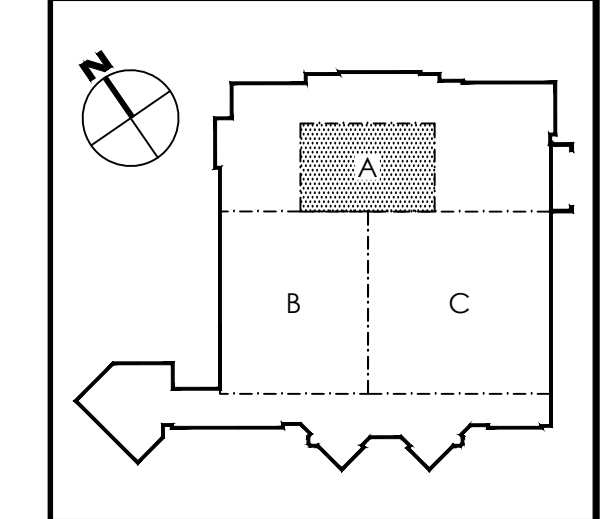


2
H201
PARTIAL FLOOR PLAN
HVAC NEW WORK - NEW STORAGE BUILDING
SCALE: 1/8" = 1'-0"
NOTE: REFER TO ARCHITECTURAL AND CIVIL DOCUMENTS FOR STORAGE BUILDING PHYSICAL LOCATION.

NEW WORK NOTES:

- ◇ PROVIDE DUCT LINER FOR ALL EXPOSED DUCTWORK PER THE SPECIFICATIONS.
- ◇ REFER TO THE EXPOSED DUCT/GRILLE INSTALLATION DETAIL.
- ◇ INSTALL NEW DUCT MAINS IN THE BEAM POCKETS. INSTALL BRANCH DUCTWORK THRU THE JOISTS.
- ◇ PAINT DUCTWORK PER THE SPECIFICATIONS.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghmail@gillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSEA
NO. 214266001 PA 80028198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214266001 PA 80028198
GEORGE R. DUTHIE, JR., AIA, PP
NO. 214266001 PA 80028198

FVHHD architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

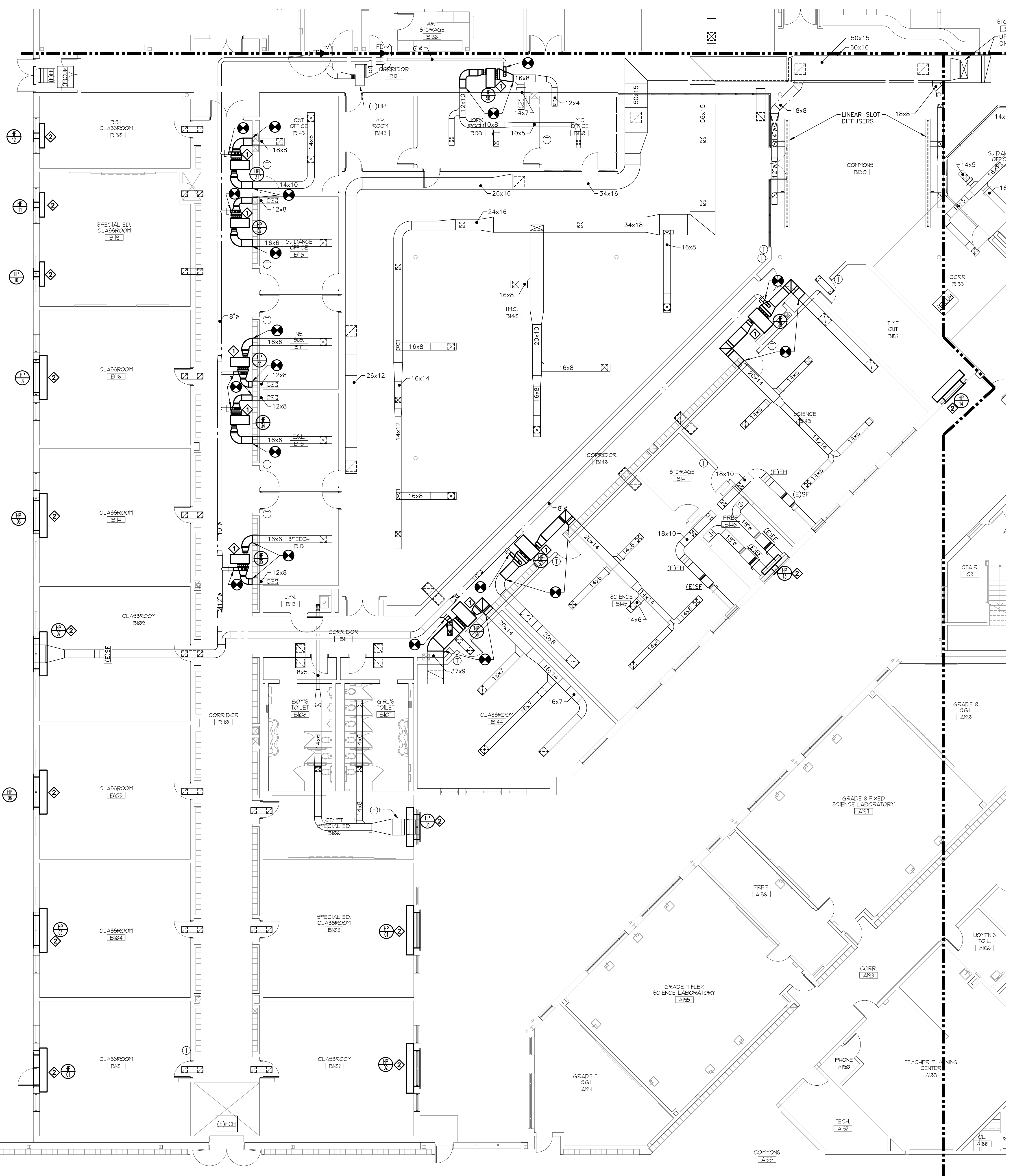
Project Number
4937C
Project Date
02.15.2019
Checked By
TJB
Drawn By
HJB
Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK - BLOCK A & NEW STORAGE BUILDING - DUCTWORK
DAVIES M.S.

Revisions		
No.	Date	Description

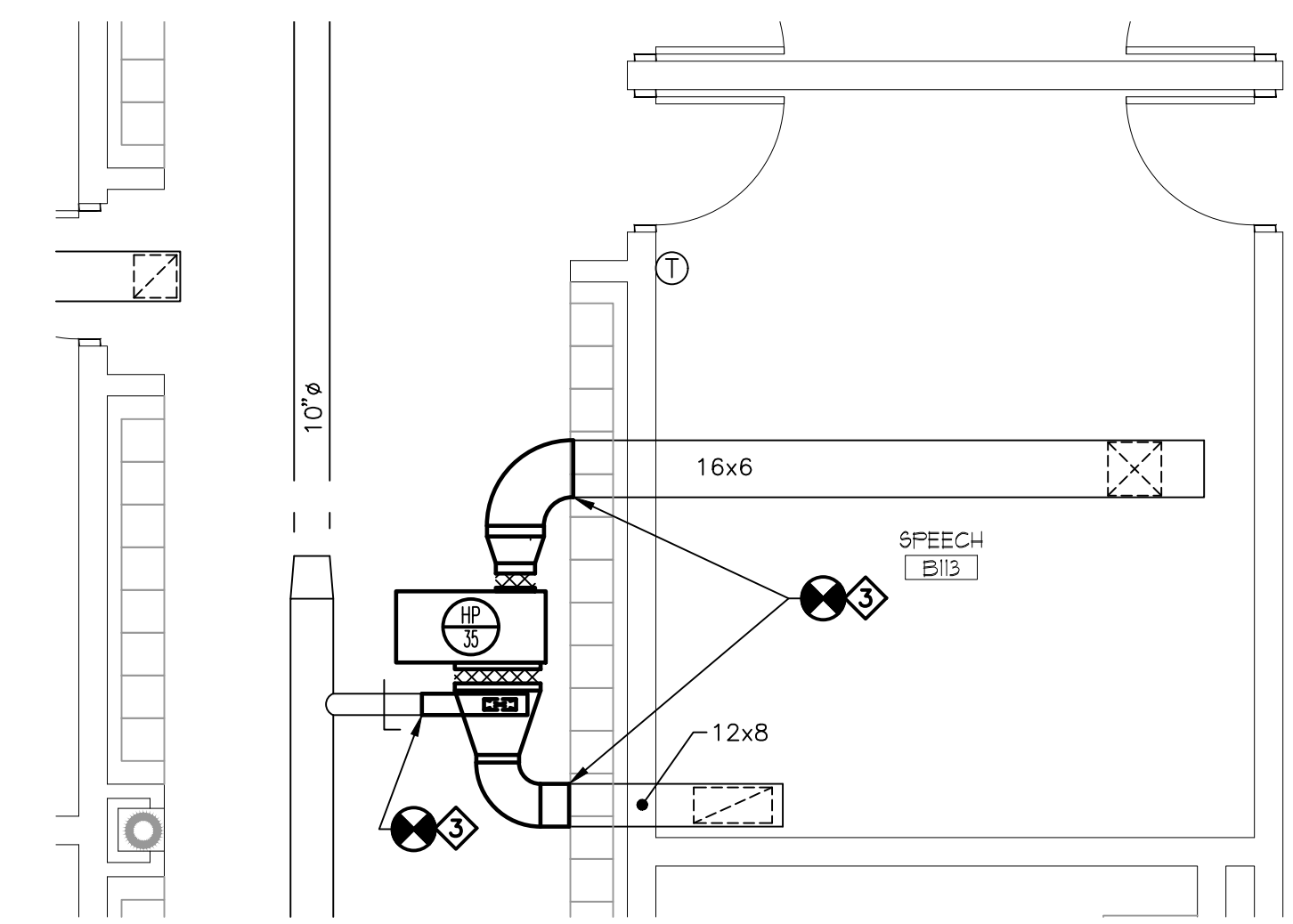
Drawing Number
H201

FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_MS_Renovations_Drawings\HVAC_New_Work_Ductwork_Ductwork.dwg
LAST SAVED: 2019/02/15 08:55 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



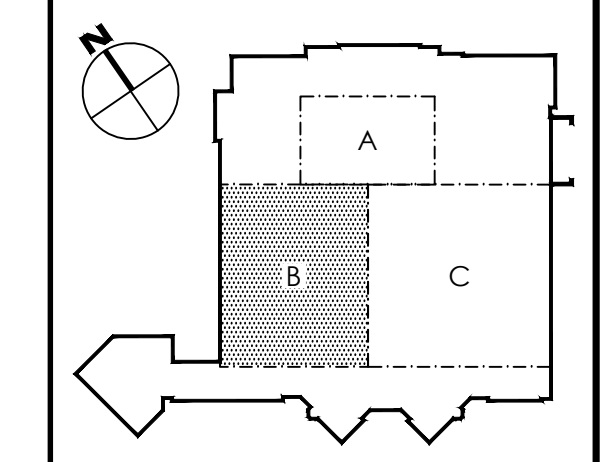
1
H202
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK B - DUCTWORK
SCALE: 1/8" = 1'-0"

- NEW WORK NOTES:**
- ◇ PROVIDE NEW HORIZONTAL WATER SOURCE HEAT PUMP AS INDICATED. EXTEND EXISTING DUCTWORK AS REQUIRED IN ORDER TO FACILITATE THE NEW CONNECTION. PROVIDE FLEXIBLE DUCT CONNECTORS AT THE NEW CONNECTION POINTS AND TRANSITION AS REQUIRED. REFER TO THE TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP - DUCTWORK DETAIL ON DRAWING H202. TEMPORARILY REMOVE AND REINSTALL CEILING, INCLUDING BUT NOT LIMITED TO CEILING TILES, GRID SUPPORTS, LIGHT FIXTURES, OCCUPANCY SENSORS, AND ADDITIONAL APPURTENANCES, AS REQUIRED TO FACILITATE THE REMOVAL OF THE EXISTING WSHP AND INSTALLATION OF THE NEW WSHP. TEMPORARILY SUPPORT, PROTECT AND MAINTAIN THE EXISTING FIRE ALARM DEVICES TO PROVIDE BUILDING COVERAGE. TEMPORARILY REMOVE AND REINSTALL EXISTING PIPING, SPRINKLERS, CABLE TRAYS, DATA RACKS, AND ADDITIONAL APPURTENANCES AS REQUIRED.
 - ◇ PROVIDE NEW CONSOLE WATER SOURCE HEAT PUMP AS INDICATED. PROVIDE NEW WALL SLEEVE, LOUVER, CUSTOM FALSE BACK AS INDICATED IN THE ARCHITECTURAL DOCUMENTS. COORDINATE NEW WORK WITH THE GENERAL CONSTRUCTION CONTRACTOR.
 - ◇ PROVIDE NEW DUCTWORK AS REQUIRED IN ORDER TO FACILITATE THE INSTALLATION OF THE NEW WATER SOURCE HEAT PUMP AND CONNECT TO THE EXISTING DUCT SYSTEMS. PROVIDE ALL REQUIRED TRANSITIONS, OFFSETS, FITTINGS, AND ADDITIONAL APPURTENANCES.



2
H202
DETAIL - TYPICAL HORIZONTAL
WATER SOURCE HEAT PUMP - DUCTWORK
SCALE: 1/4" = 1'-0"

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL
CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSEA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTHIE, JR., AIA, PP

FVH D architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Willbaker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

Project Name
ALTERATIONS AND
RENOVATIONS TO
WILLIAM DAVIES
MIDDLE SCHOOL

Project Owner Name
HAMILTON
TOWNSHIP BOARD
OF EDUCATION

Project Location
1876 DENNIS
FORMAN DR, MAYS
LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

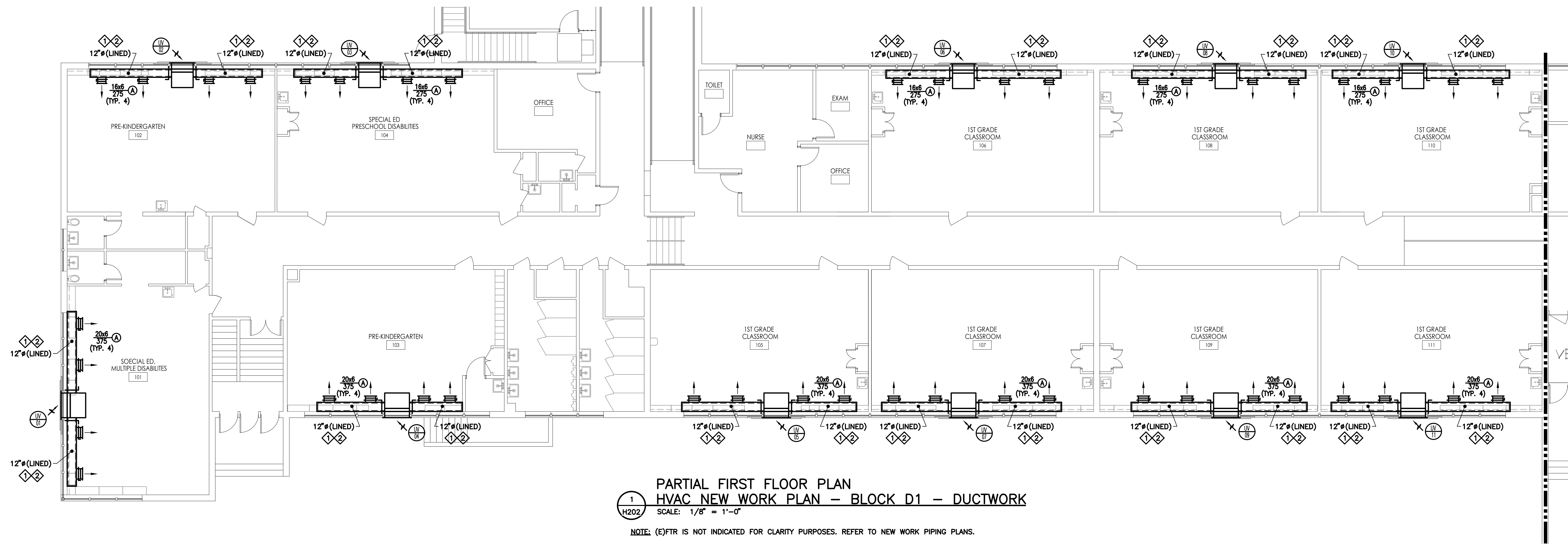
Drawing Name
PARTIAL FIRST
FLOOR PLAN:
HVAC NEW WORK -
BLOCK B -
DUCTWORK

DAVIES M.S.

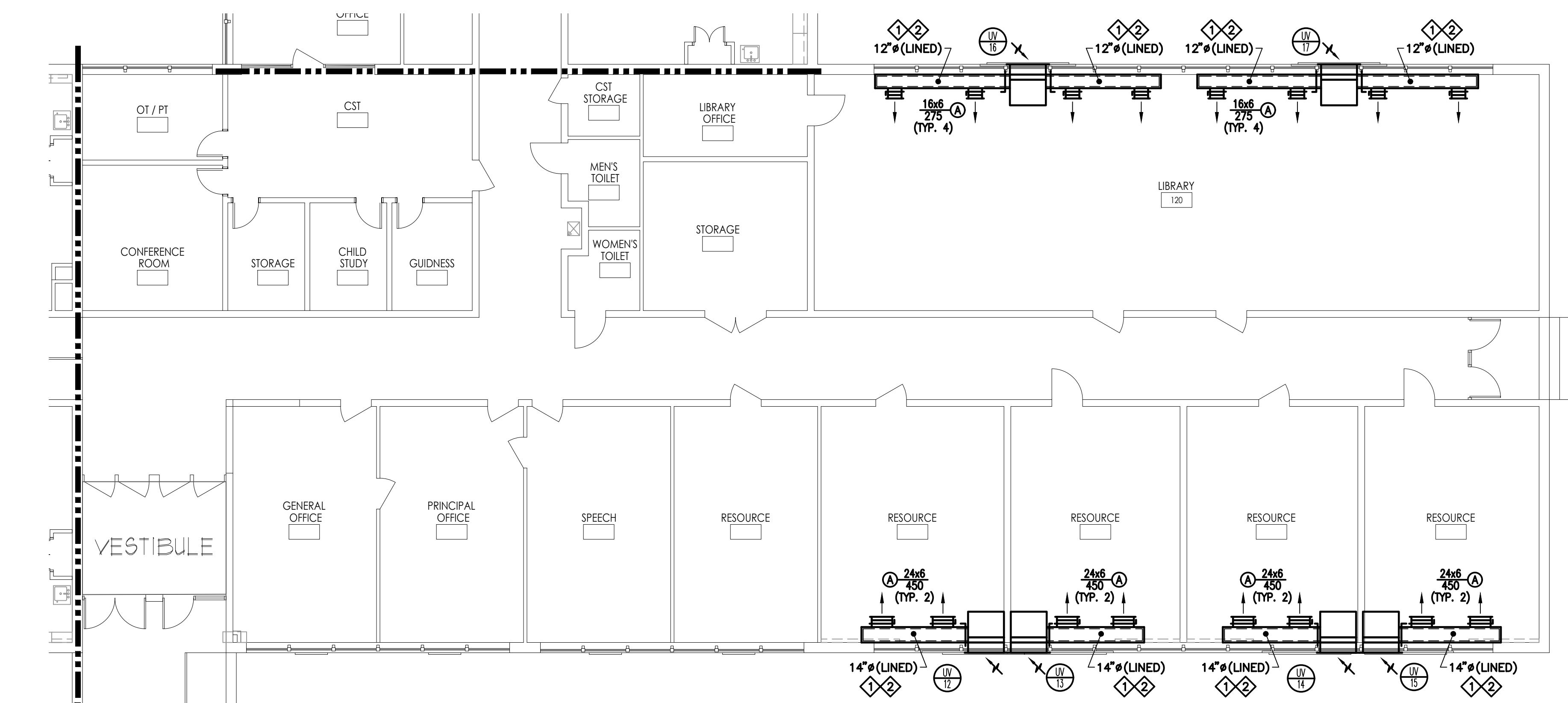
No.	Date	Description

Drawing Number
H202

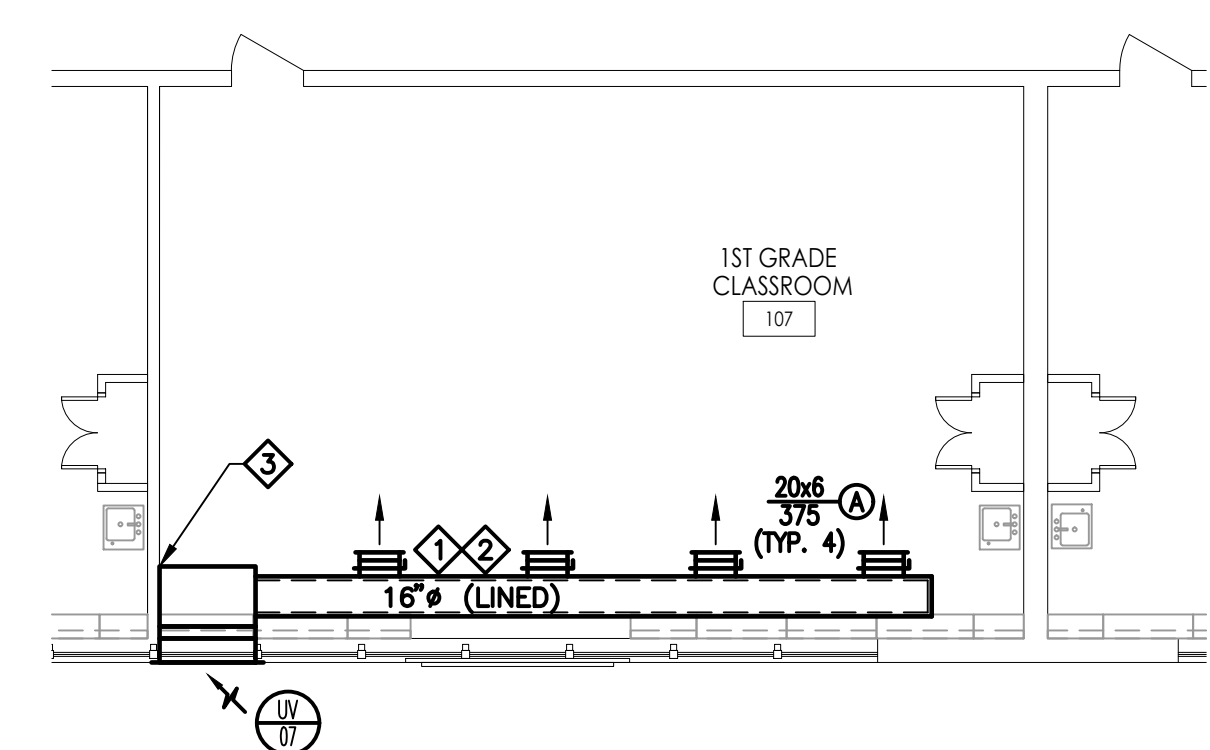
FILE PATH: C:\projects\2018\02\0205_H202_William_Davies_Middle_School_Renovations\Drawings\HVAC_New_Work_Ductwork_Drawing.dwg
LAST SAVED: 2019/02/15 08:55 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



1
H202
**PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK PLAN - BLOCK D1 - DUCTWORK**
SCALE: 1/8" = 1'-0"
NOTE: (E)FTR IS NOT INDICATED FOR CLARITY PURPOSES. REFER TO NEW WORK PIPING PLANS.

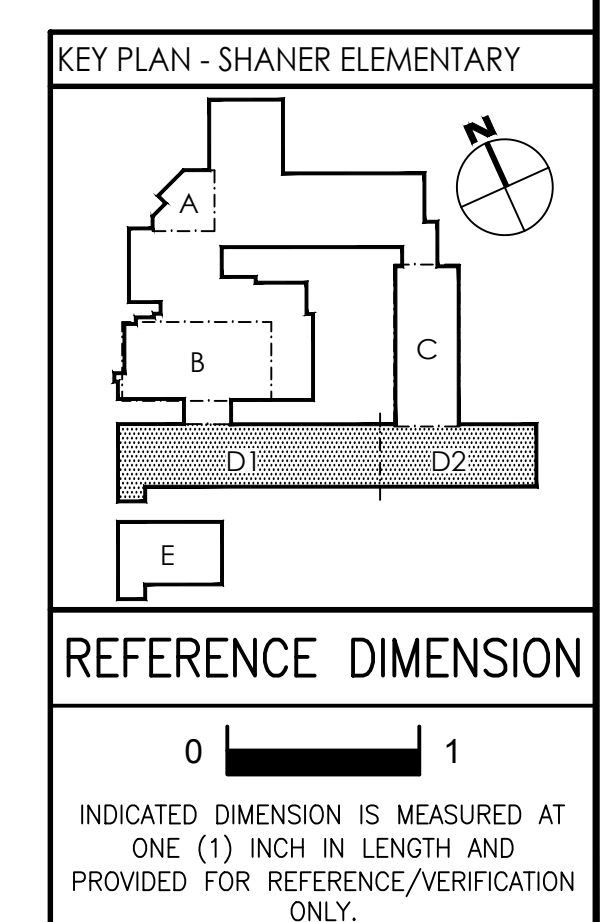


2
H202
**PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK D2 - DUCTWORK**
SCALE: 1/8" = 1'-0"
NOTE: (E)FTR IS NOT INDICATED FOR CLARITY PURPOSES. REFER TO NEW WORK PIPING PLANS.



3
H202
**PARTIAL FIRST FLOOR PLAN HVAC NEW
WORK - DUCTWORK - CORNER UV INSTALLATION**
SCALE: 1/8" = 1'-0"

- NEW WORK NOTES:**
- ◆ PROVIDE LINED DUCTWORK WITH SMOOTH (NON-FLANGED) CONNECTIONS. REFER TO TYPICAL UNIT VENTILATOR SECTION FOR ADDITIONAL INFORMATION.
 - ◆ INSTALL DUCTWORK TO ENSURE BOTTOM OF DUCT IS A MINIMUM OF 8'-0" ABOVE THE FINISHED FLOOR.
 - ◆ PROVIDE WALL FILLER PANEL/CLOSURE PIECE. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION.



REFERENCE DIMENSION
0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

- NOTES:**
1. THIS PLAN IS TYPICAL FOR CORNER UNIT VENTILATOR INSTALLATIONS. REFER TO THE ARCHITECTURAL DOCUMENTS FOR UNIT VENTILATOR LOCATION.
 2. UTILIZE THE BELOW DUCTWORK SIZES FOR THE INDICATED UNIT TYPES:
A. TYPE B: 14"
B. TYPE C: 16"
C. TYPE D: 20"
 3. UTILIZE THE BELOW SUPPLY REGISTER SIZES AND DISCHARGE AIRFLOW REQUIREMENTS FOR THE INDICATED UNIT TYPES:
A. TYPE B: 16x6 AT 275 CFM.
B. TYPE C: 20x6 AT 375 CFM.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1583 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

GFVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Willbaker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTRIE, JR., AIA, PP

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

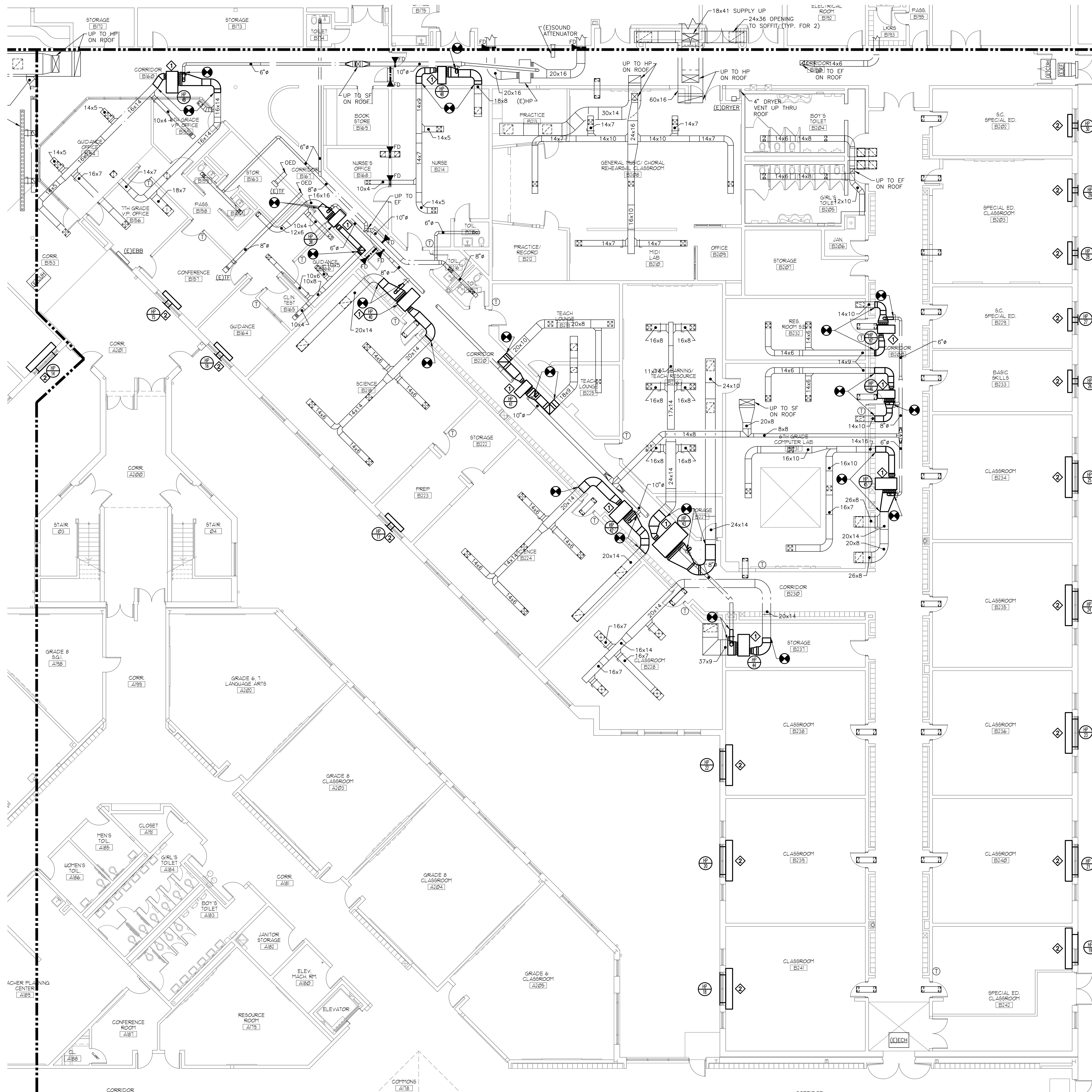
Drawing Name
PARTIAL FIRST FLOOR PLANS: PLUMBING NEW WORK - BLOCKS D1 & D2 - DUCTWORK

SHANER E.S.

No.	Date	Description

Drawing Number
H202

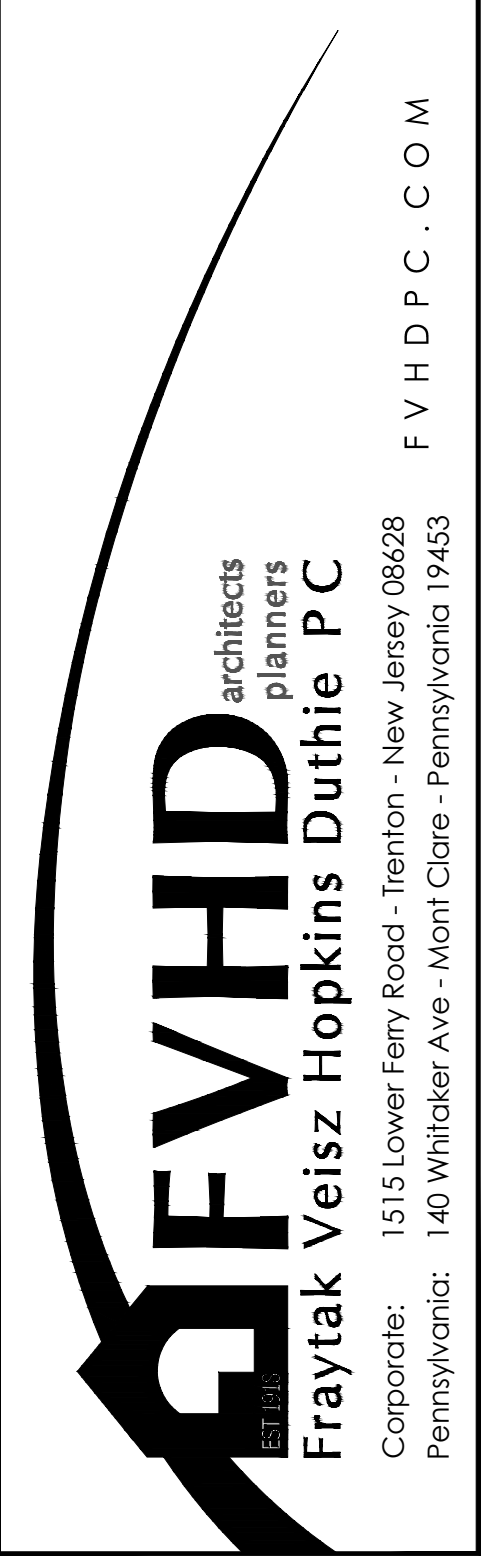
FILE PATH: B:\Projects\2018\2018204_H202_Joseph_Shaner_ES_Renovations_Drainings\WAC_New_Work_Ductwork_Shaner.dwg
 USER: SAGD 2018/02/15 01:41 PM PLOTTED BY: TML



NEW WORK NOTES:

- ◇ PROVIDE NEW HORIZONTAL WATER SOURCE HEAT PUMP AS INDICATED. EXTEND EXISTING DUCTWORK AS REQUIRED IN ORDER TO FACILITATE THE NEW CONNECTION. PROVIDE FLEXIBLE DUCT CONNECTORS AT THE NEW CONNECTION POINTS AND TRANSITION AS REQUIRED. REFER TO THE TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP - DUCTWORK DETAIL ON DRAWING H202. TEMPORARILY REMOVE AND REINSTALL CEILING, INCLUDING BUT NOT LIMITED TO CEILING TILES, GRID SUPPORTS, LIGHT FIXTURES, OCCUPANCY SENSORS, AND ADDITIONAL APPURTENANCES, AS REQUIRED TO FACILITATE THE REMOVAL OF THE EXISTING WSHHP AND INSTALLATION OF THE NEW WSHHP. TEMPORARILY SUPPORT, PROTECT AND MAINTAIN THE EXISTING FIRE ALARM DEVICES TO PROVIDE BUILDING COVERAGE. TEMPORARILY REMOVE AND REINSTALL EXISTING PIPING, SPRINKLERS, CABLE TRAYS, DATA RACKS, AND ADDITIONAL APPURTENANCES AS REQUIRED.
- ◇ PROVIDE NEW CONSOLE WATER SOURCE HEAT PUMP AS INDICATED. PROVIDE NEW WALL SLEEVE, LOUVER, CUSTOM FALSE BACK AS INDICATED IN THE ARCHITECTURAL DOCUMENTS. COORDINATE NEW WORK WITH THE GENERAL CONSTRUCTION CONTRACTOR.

JOHN J. VEISZ, AIA, CSEA
 WILLIAM D. HOPKINS III, AIA, LEED AP
 GEORGE R. DUTHIE, JR., AIA, PP



Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK - BLOCK C - DUCTWORK

Revisions

No.	Date	Description

Drawing Number
H203

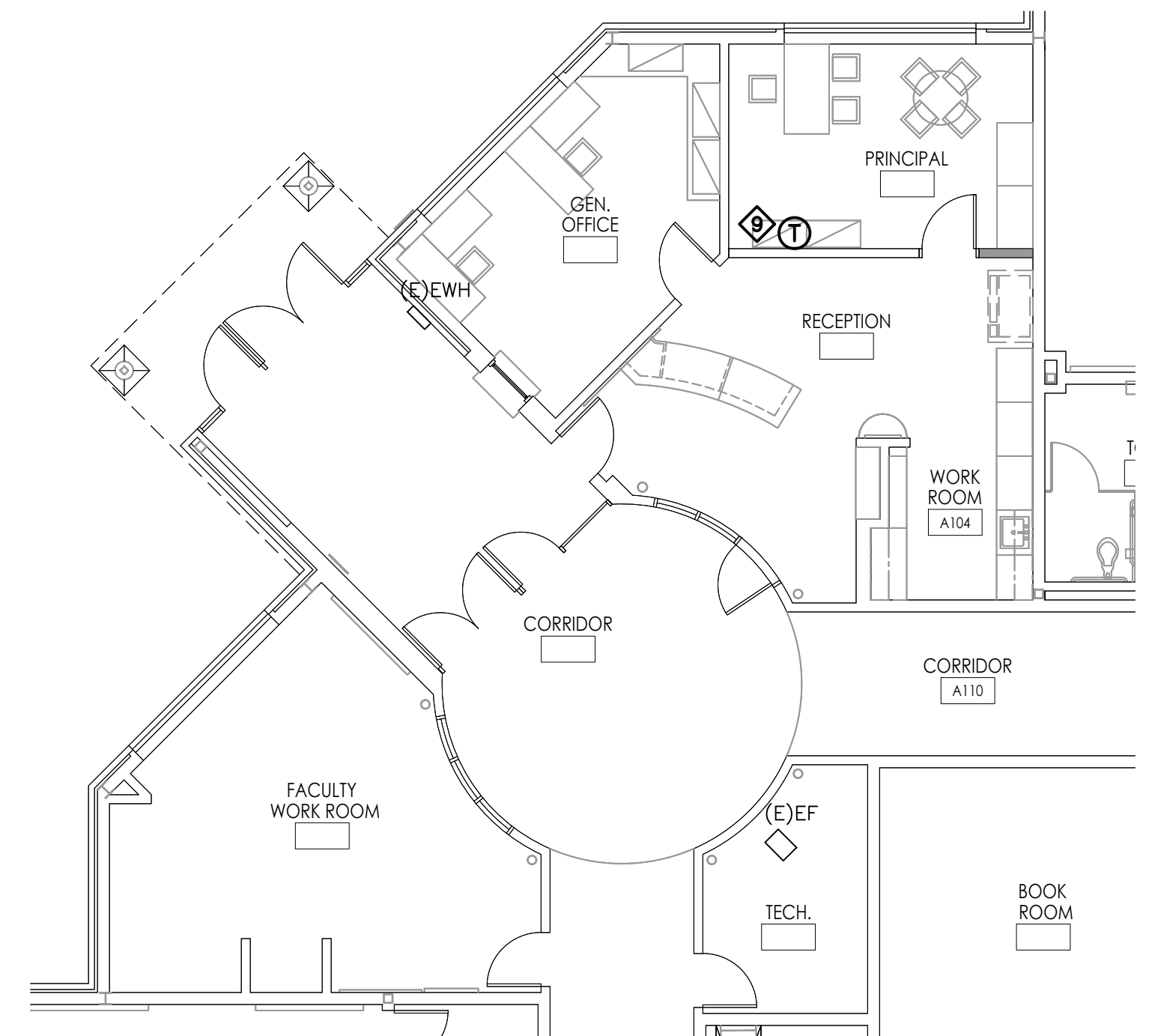
**PARTIAL FIRST FLOOR PLAN
 HVAC NEW WORK - BLOCK C - DUCTWORK**
 SCALE: 1/8" = 1'-0"

02/15/2019
 ISSUED FOR BID

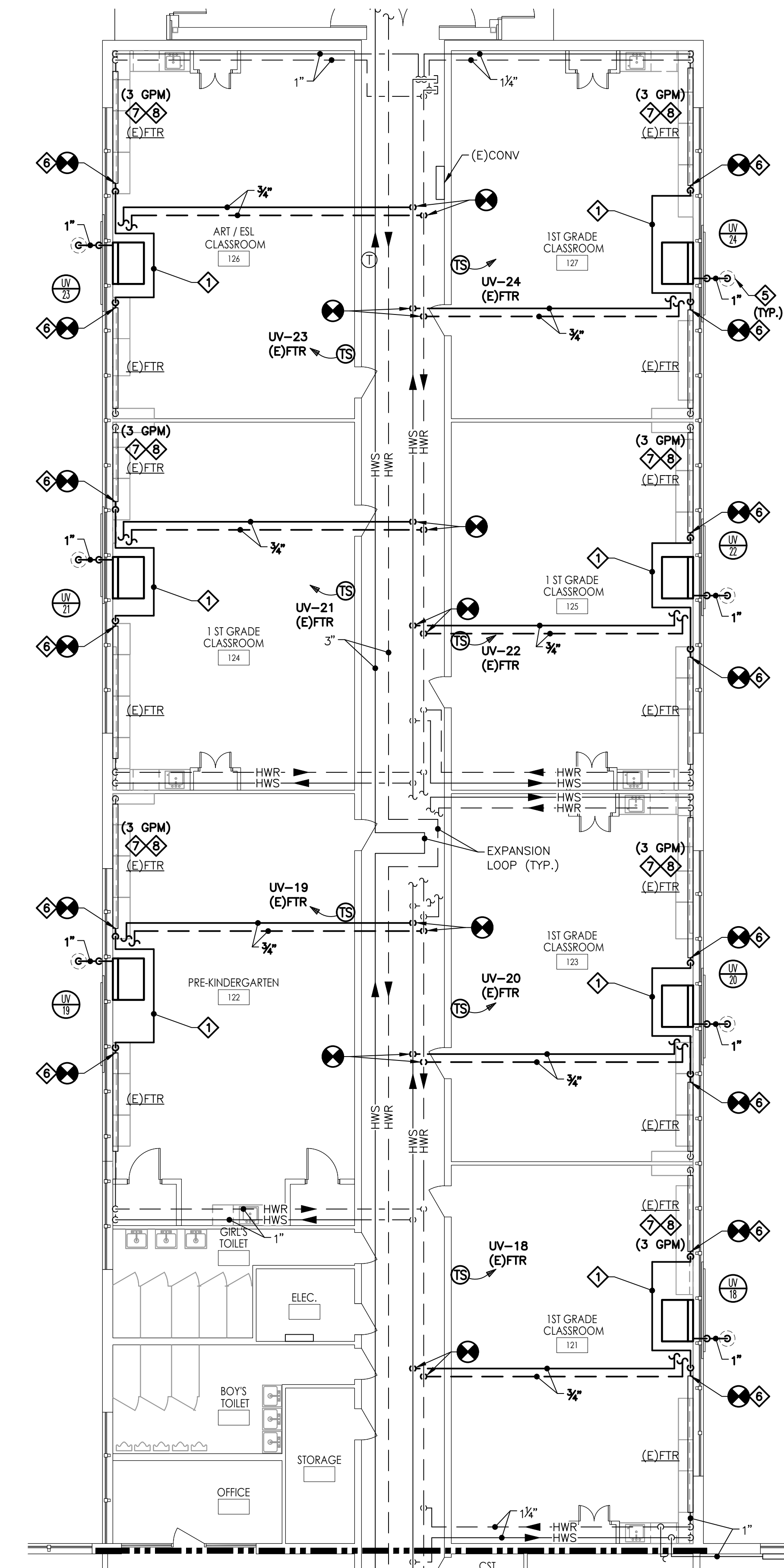
Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com gillan@ghillan-hartmann.com
 G&H Project No. 2018-205

ENGINEER
 MICHAEL S. GILLAN, PE
 DATE
 NO. 24GE04470000

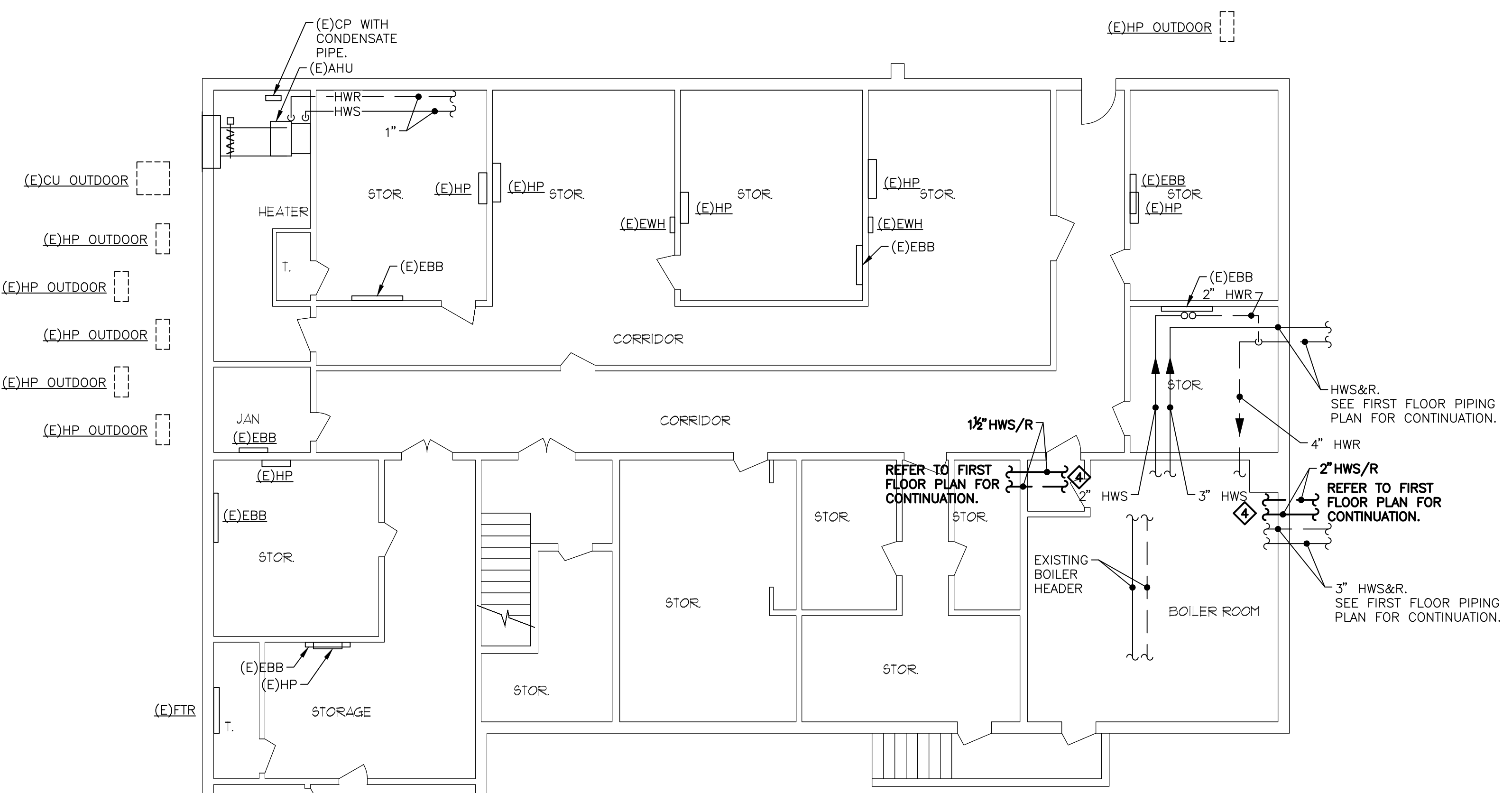
FILE PATH: C:\projects\2018\2018205_H203_William_Davies_Middle_School_Renovations\Drawings\H203_Plot\H203_Plot.dwg
 LAST SAVED: 2019/02/15 08:55 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



1
H211
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK A - PIPING
SCALE: 1/8" = 1'-0"



2
H211
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK PLAN - BLOCK C - PIPING
SCALE: 1/8" = 1'-0"

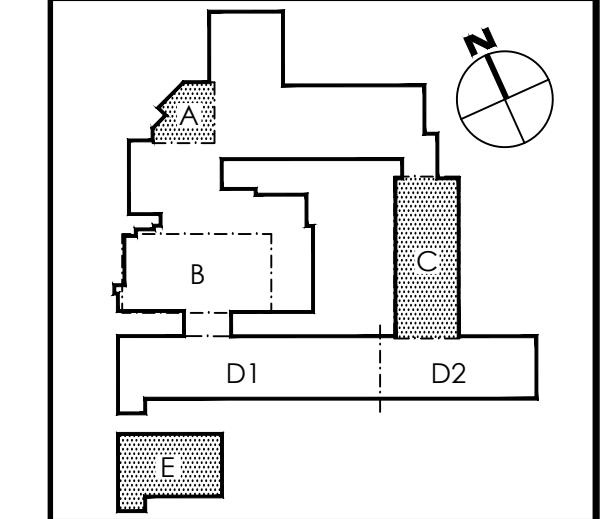


3
H211
BASEMENT
HVAC NEW WORK PLAN - BLOCK E - PIPING
SCALE: 1/8" = 1'-0"

NEW WORK NOTES:

- ◆ PIPING SHOWN OFFSET FOR VISUAL PURPOSES. PROVIDE NEW 3/4" HEATING WATER SUPPLY AND RETURN PIPING. INSTALL PIPING OVER THE NEW UNIT VENTILATOR. COORDINATE ROUTING WITH THE NEW DUCTWORK.
- ◆ PROVIDE FLOWMETER, SHUTOFF (BALL OR BUTTERFLY) VALVE, P/T PORTS AT THE INDICATED LOCATION. REFER TO THE WATER FLOW STATION DETAIL.
- ◆ PROVIDE PRESSURE-INDEPENDENT BALANCING VALVE. BALANCE TO THE INDICATED WATER FLOW RATE. REFER TO THE PRESSURE INDEPENDENT BALANCING STATION DETAILS.
- ◆ CONNECT NEW HEATING WATER PIPING INTO THE EXISTING BOILER HEADER. ROUTE PIPING AS REQUIRED TO FACILITATE THE NEW CONNECTION.
- ◆ PROVIDE NEW CONDENSATE DRAIN THRU WALL TO DRY-WELL. PROVIDE DRY-WELL IN ACCORDANCE WITH DETAIL. COORDINATE WALL PENETRATION WITH EXISTING STRUCTURAL MEMBERS. SEAL PER DRY WELL DETAIL.
- ◆ PROVIDE SHEET METAL ENCLOSURE TO CONCEAL PIPING. INSTALL PIPING RISER WITHIN THE SHEET METAL ENCLOSURE. PAINT ENCLOSURE COLOR AS SELECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION.
- ◆ PROVIDE NEW TWO-WAY CONTROL VALVE (ABOVE CEILING OR IN ENCLOSURE IF FIELD CONDITIONS PERMIT) AND ALL REQUIRED VALVES AND APPURTENANCES PER THE TWO WAY CONTROL VALVE DETAIL.
- ◆ SET BALANCING VALVE TO PRE-CONSTRUCTION READINGS. INDICATED VALUE IS ESTIMATED BASED ON ORIGINAL DESIGN DOCUMENTS. FIELD VERIFY FLOW RATE WITH EXISTING SETPOINTS.
- ◆ RELOCATE EXISTING THERMOSTAT TO LOCATION INDICATED. EXTEND WIRING AS REQUIRED.

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com gmailto@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTHIE, JR., AIA, PP

EFVHD architects
planners
Frattak Veisz Hopkins Duthie PC
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
F V H D P C - C O M
140 Wiltshire Ave - Mont Clare - Pennsylvania 17453

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
TJB
Drawn By
HJB
Scale
AS NOTED

Drawing Name
PARTIAL BASEMENT & FIRST FLOOR PLANS: HVAC NEW WORK - BLOCKS A, C, & E - PIPING

SHANER E.S.

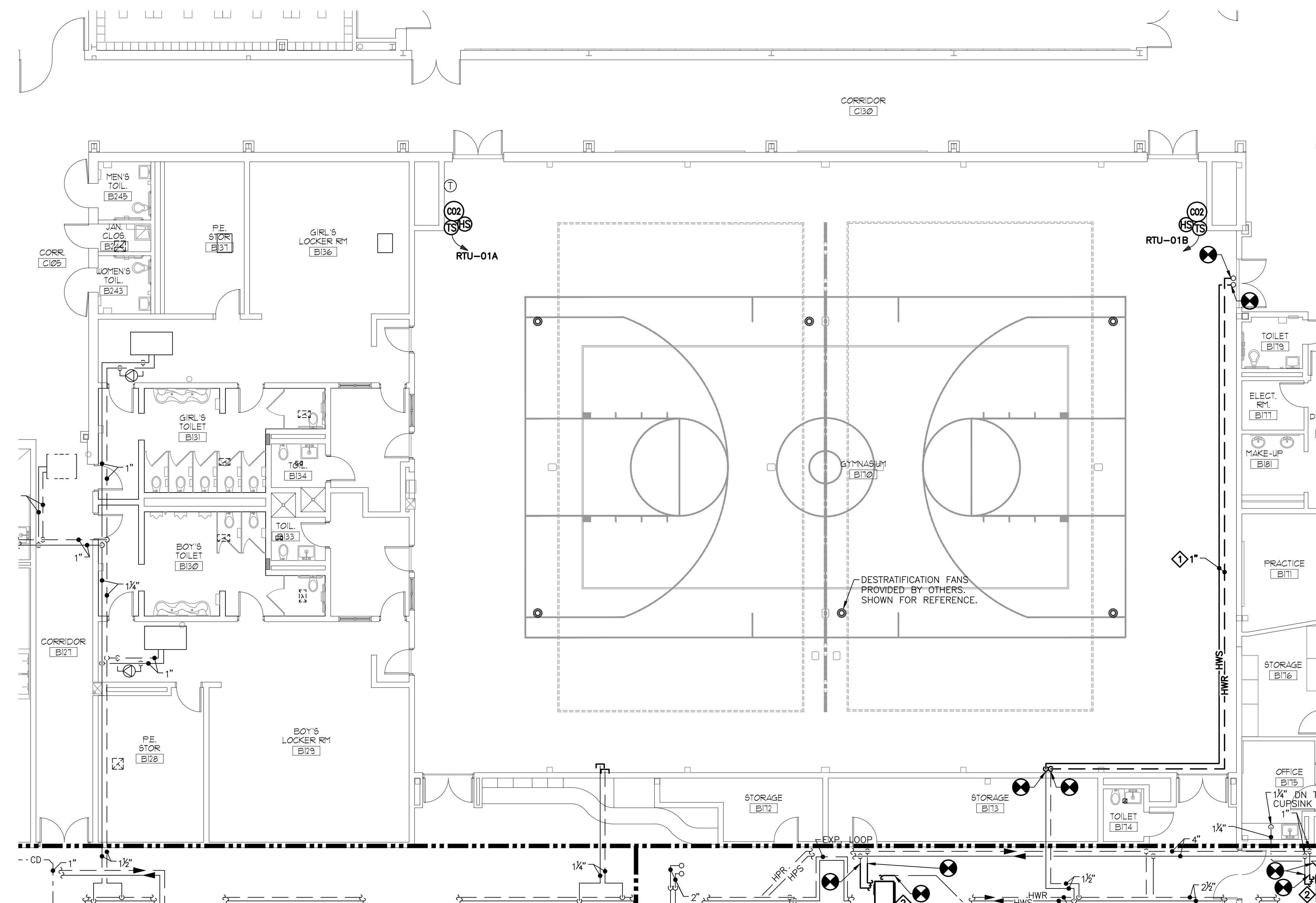
No.	Date	Description

Drawing Number
H211

FILE PATH: E:\Projects\2018\201804_HTSO_Joseph_Shaner_ES_Renovations_Corrections\Drawings\MEC_New Work_Piping_Shaner.dwg
 USER: SAGD - 2018/02/15 02:33 PM PLOTTED BY: TML

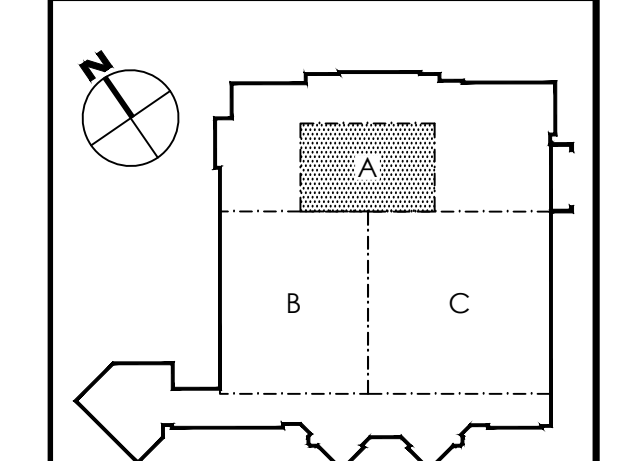
NEW WORK NOTES:

◊ INSTALL PIPING AS HIGH AS POSSIBLE. INSTALL PIPING THROUGH JOISTS.



1
H211
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK A - PIPING
SCALE: 1/8" = 1'-0"

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1583 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
Cet. of Auth. #24027932400 G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
NO. 2142866001 PA. 80028198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2142866001 PA. 80028198
GEORGE R. DUTHIE, JR., AIA, PP
NO. 2142866001 PA. 80028198

FVHHD architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C
Project Date
02.15.2019
Checked By
TJB
Drawn By
HJB
Scale
AS NOTED

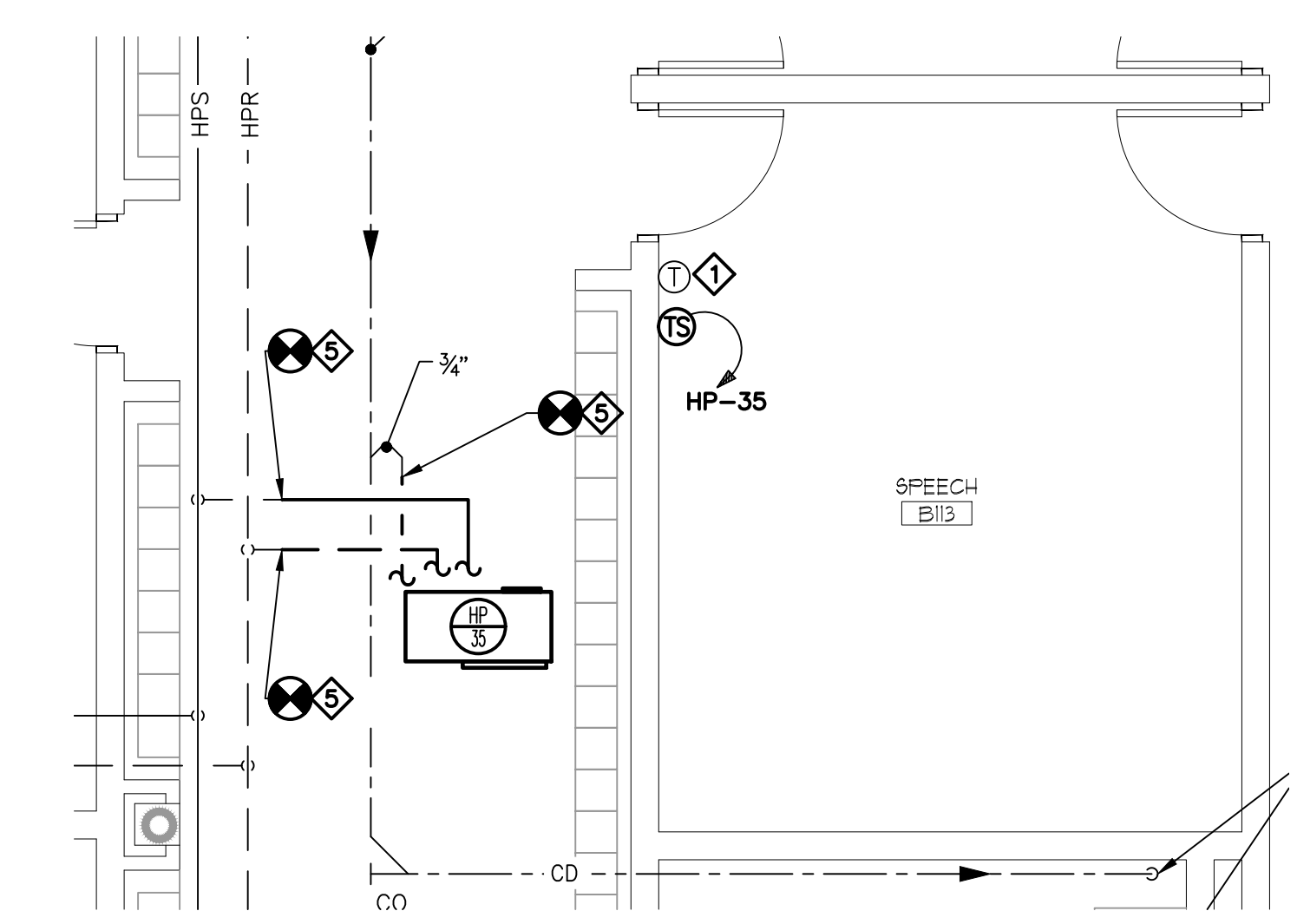
Drawing Name
PARTIAL FIRST FLOOR PLAN: HVAC NEW WORK - BLOCK A - PIPING
DAVIES M.S.

Revisions	No.	Date	Description

Drawing Number
H211

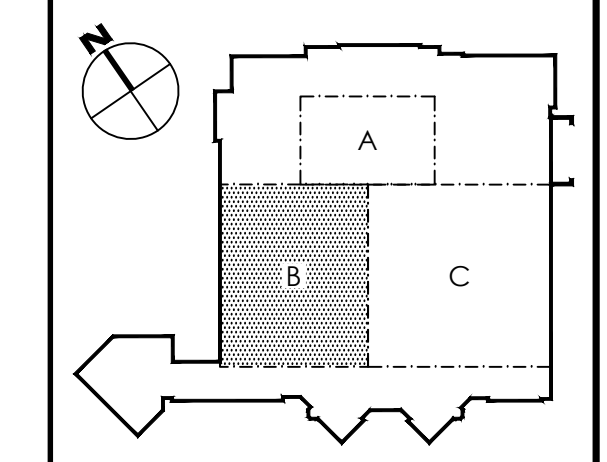
FILE PATH: C:\projects\2018\2018205_HHSO_Milford_Middle_School_M.S. Renovations_Drawings\HVAC_New_Work_Piping_Davies.dwg
LAST SAVED: 2019/02/15 09:50 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML

- NEW WORK NOTES:**
- EXISTING THERMOSTAT TO REMAIN CONNECTED TO THE EXISTING DDC SYSTEM FOR MONITORING PURPOSES.
 - PROVIDE NEW WATER SOURCE HEAT PUMP AS INDICATED. PROVIDE NEW HANGERS, SUPPORTS, VIBRATION ISOLATION, AND ADDITIONAL ACCESSORIES PER THE SPECIFICATIONS. EXTEND EXISTING PIPING TO FACILITATE THE INSTALLATION OF THE NEW WSHHP. REFER TO TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP - PIPING DETAIL ON DRAWING H212.
 - PROVIDE NEW CONSOLE STYLE WATER SOURCE HEAT PUMP AS INDICATED. PROVIDE NEW SUPPORTS, VIBRATION ISOLATION, AND ADDITIONAL ACCESSORIES PER THE SPECIFICATIONS. EXTEND EXISTING PIPING ALONG THE WALL AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WSHHP. PROVIDE NEW THRU-WALL CONDENSATE PIPING AS INDICATED. PROVIDE ALL REQUIRED OFFSETS, ELBOWS, AND ADDITIONAL FITTINGS IN ORDER TO FACILITATE THE CONNECTIONS.
 - PROVIDE NEW CONDENSATE DRAIN THRU WALL TO DRY-WELL. PROVIDE DRY-WELL IN ACCORDANCE WITH DETAIL. COORDINATE WALL PENETRATION WITH EXISTING STRUCTURAL MEMBERS. SEAL PER DRY WELL DETAIL.
 - EXTEND THE EXISTING COOLING COIL CONDENSATE AND HEAT PUMP LOOP PIPING AS REQUIRED IN ORDER TO FACILITATE THE INSTALLATION OF THE NEW HORIZONTAL WATER SOURCE HEAT PUMPS. PROVIDE ALL REQUIRED OFFSETS, ELBOWS, AND ADDITIONAL FITTINGS IN ORDER TO FACILITATE THE CONNECTIONS AND CONNECT TO THE COIL PER THE TYPICAL HEAT PUMP PIPING DETAIL.

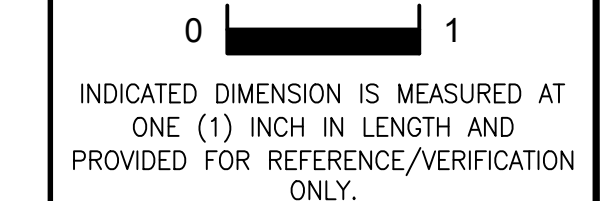


2
H212
DETAIL - TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP - PIPING
 SCALE: 1/4" = 1'-0"

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

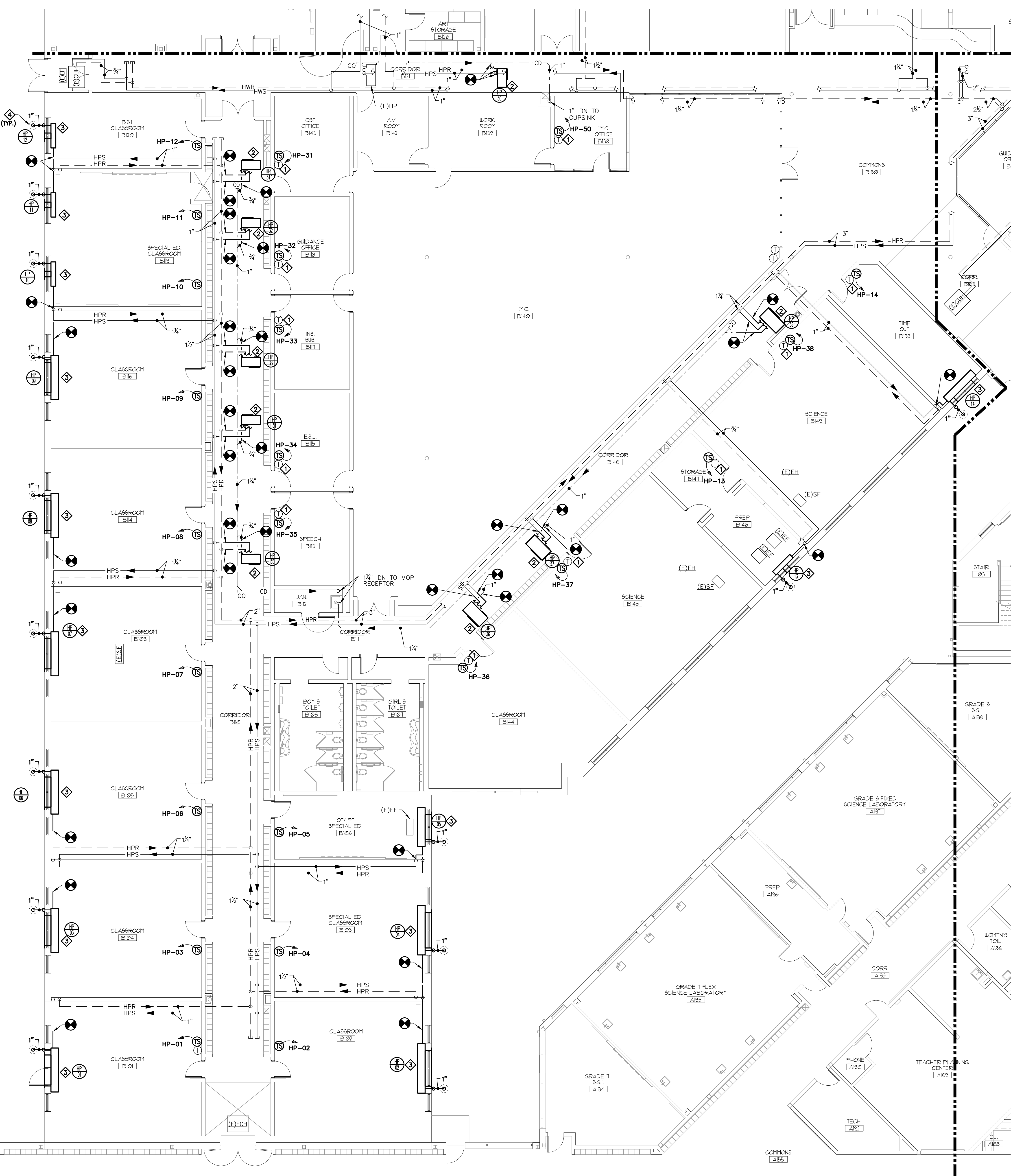


INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

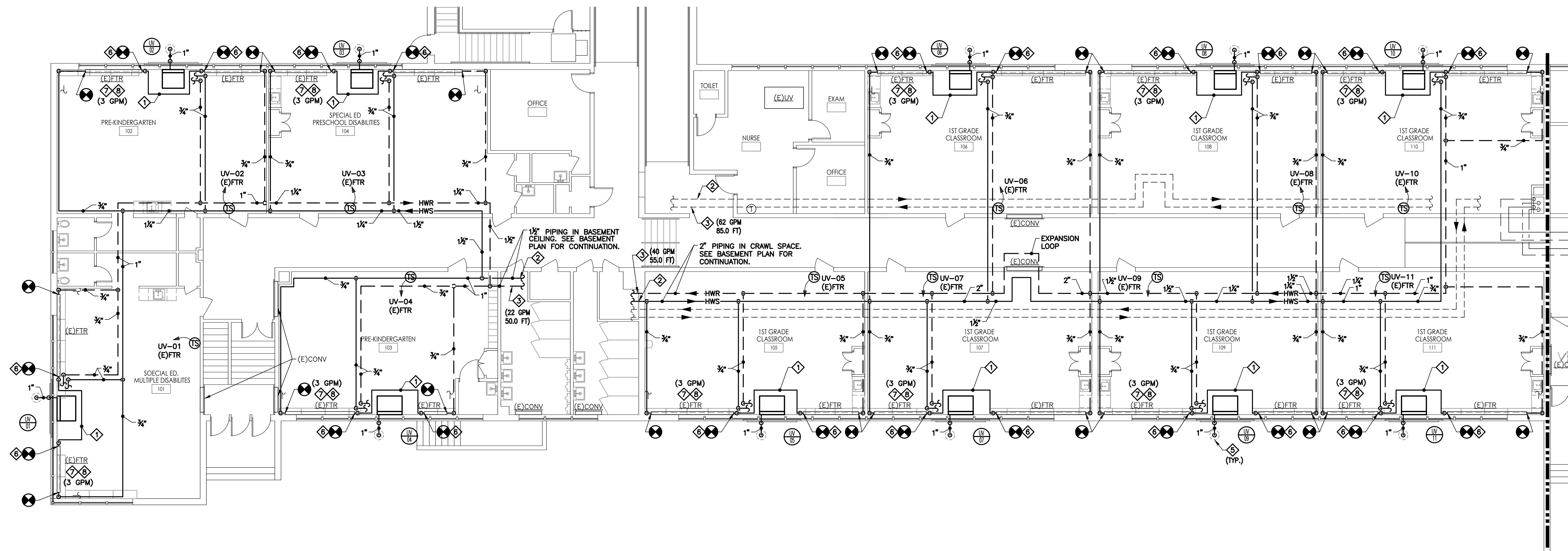
Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghm@gillan-hartmann.com
 Cert. of Auth. #24027932400 G&H Project No. 2018-205

02/15/2019
 ISSUED FOR BID

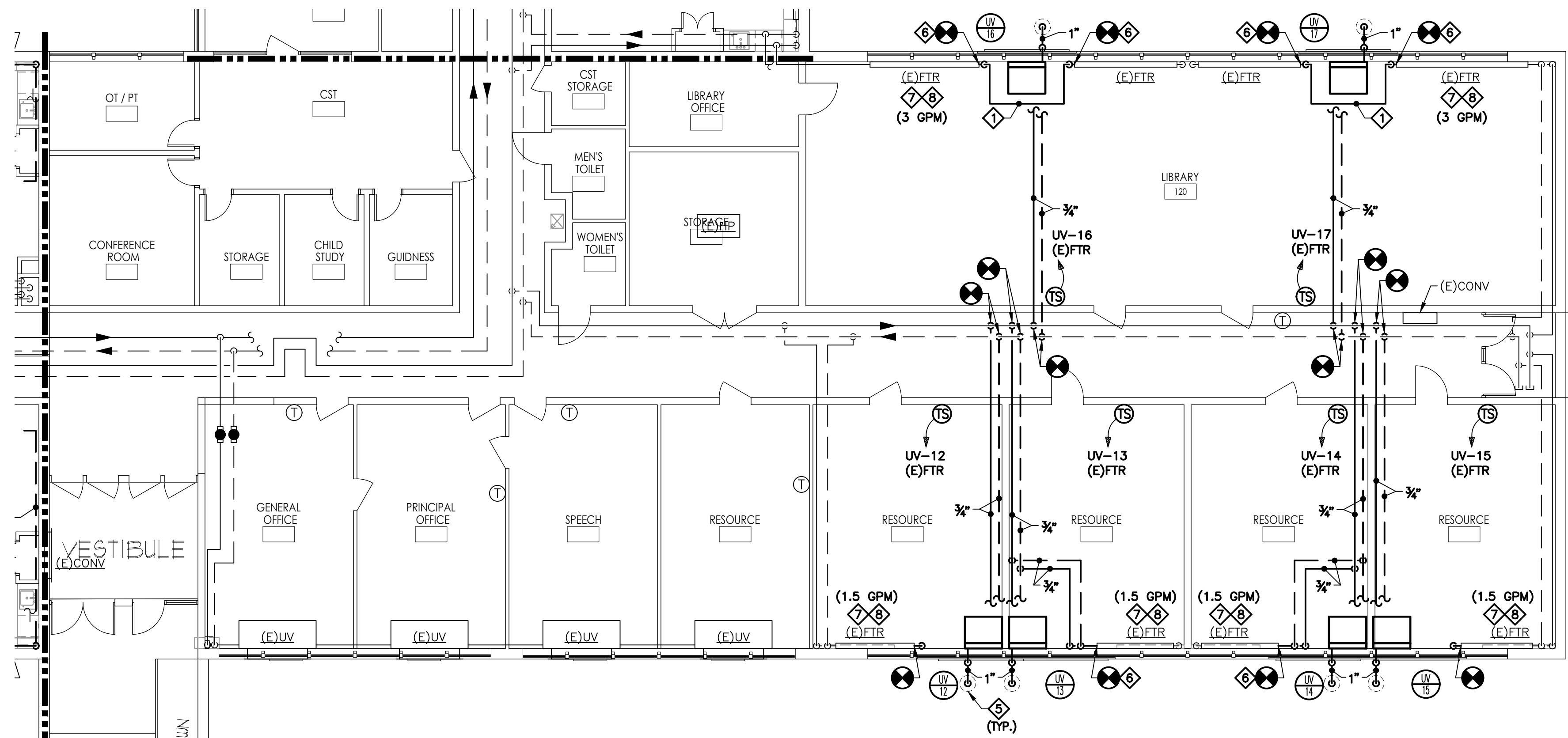
ENGINEER
 MICHAEL S. GILLAN, PE
 DATE
 NO. 24GE04470000



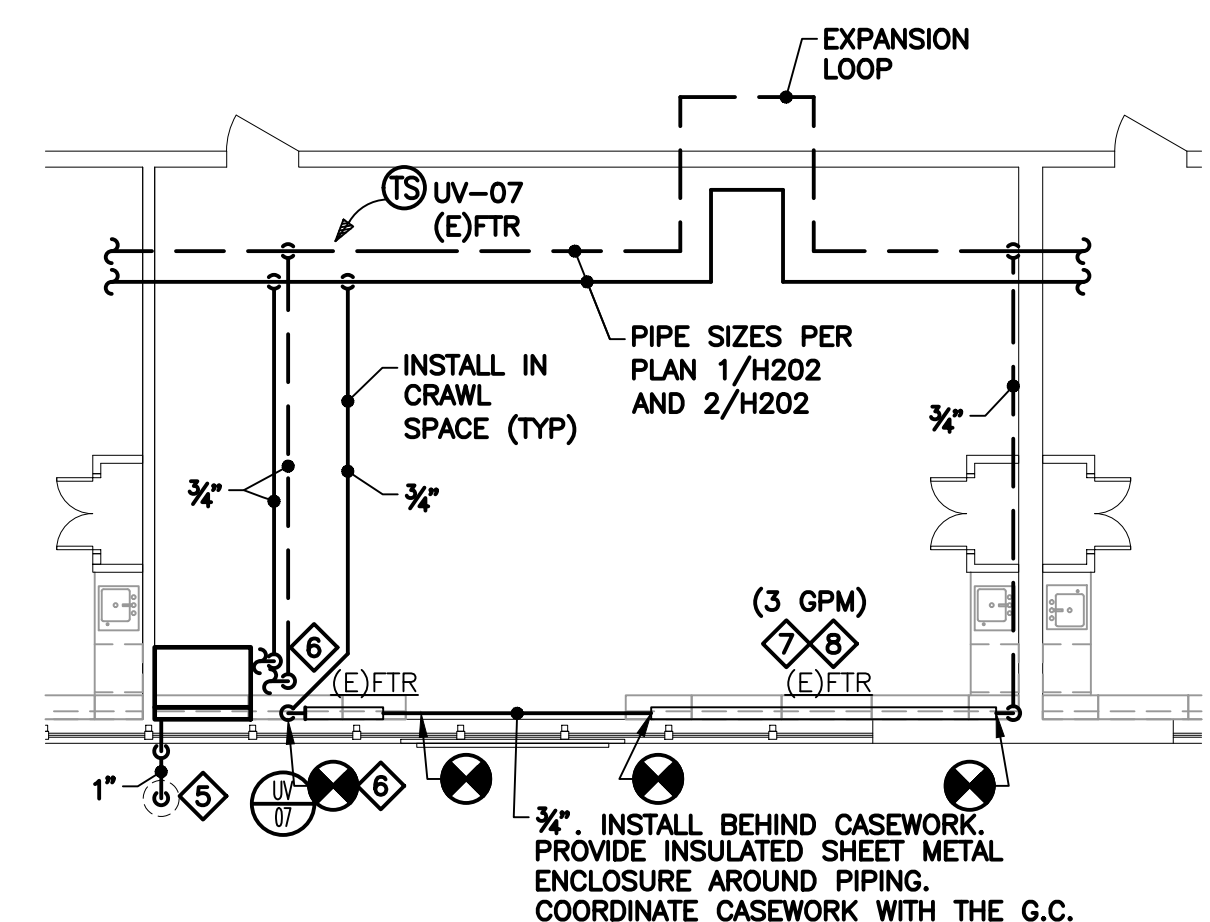
1
H212
PARTIAL FIRST FLOOR PLAN HVAC NEW WORK - BLOCK B - PIPING
 SCALE: 1/8" = 1'-0"



1
H212
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK PLAN - BLOCK D1 PIPING
SCALE: 1/8" = 1'-0"



2
H212
PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK D2 - PIPING
SCALE: 1/8" = 1'-0"

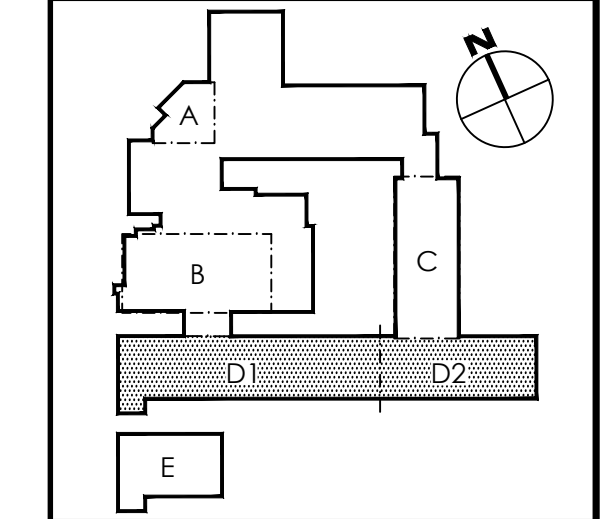


3
H212
PARTIAL FIRST FLOOR PLAN HVAC NEW
WORK - PIPING - CORNER UV INSTALLATION
SCALE: 1/8" = 1'-0"

NEW WORK NOTES:

- ◆ PIPING SHOWN OFFSET FOR VISUAL PURPOSES. PROVIDE NEW 3/4" HEATING WATER SUPPLY PIPING. INSTALL PIPING OVER THE NEW UNIT VENTILATOR. COORDINATE ROUTING WITH THE NEW DUCTWORK.
- ◆ PROVIDE FLOWMETER, SHUTOFF (BALL OR BUTTERFLY) VALVE, P/T POINTS AT THE INDICATED LOCATION. REFER TO THE WATER FLOW STATION DETAIL.
- ◆ PROVIDE PRESSURE-INDEPENDENT BALANCING VALVE. BALANCE TO THE INDICATED WATER FLOW RATE. REFER TO THE PRESSURE INDEPENDENT BALANCING STATION DETAIL.
- ◆ CONNECT NEW HEATING WATER PIPING INTO THE EXISTING BOILER HEADER. ROUTE PIPING AS REQUIRED TO FACILITATE THE NEW CONNECTION.
- ◆ PROVIDE NEW CONDENSATE DRAIN THRU WALL TO DRY-WELL. PROVIDE DRY-WELL IN ACCORDANCE WITH DETAIL. COORDINATE WALL PENETRATION WITH EXISTING STRUCTURAL MEMBERS. SEAL PER DRY WELL DETAIL.
- ◆ PROVIDE SHEET METAL ENCLOSURE TO CONCEAL PIPING. INSTALL PIPING RISER WITHIN THE SHEET METAL ENCLOSURE. PAINT ENCLOSURE COLOR AS SELECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION.
- ◆ PROVIDE NEW TWO-WAY CONTROL VALVE (ABOVE CEILING, CRAWL SPACE, OR IN ENCLOSURE IF FIELD CONDITIONS PERMIT) AND ALL REQUIRED VALVES AND APPURTENANCES PER THE TWO WAY CONTROL VALVE DETAIL.
- ◆ SET BALANCING VALVE TO PRE-CONSTRUCTION READINGS. INDICATED VALUE IS ESTIMATED BASED ON ORIGINAL DESIGN DOCUMENTS. FIELD VERIFY FLOW RATE WITH EXISTING SETPOINTS.

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

NOTES:
1. THIS PLAN IS TYPICAL FOR CORNER UNIT VENTILATOR INSTALLATIONS. REFER TO THE ARCHITECTURAL DOCUMENTS FOR UNIT VENTILATOR LOCATION.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-238-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER
MICHAEL S. GILLAN, PE
DATE
NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
NO. 214866001 PA-80020788
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 214866001 PA-80020788
GEORGE R. DUTHIE, JR., AIA, PP
NO. 214866001 PA-80020788

FVHHD architects
planners
Frattak Veisz Hopkins Duthie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Willbaker Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B
Project Date
02.15.2019
Checked By
TJB
Drawn By
HJB
Scale
AS NOTED

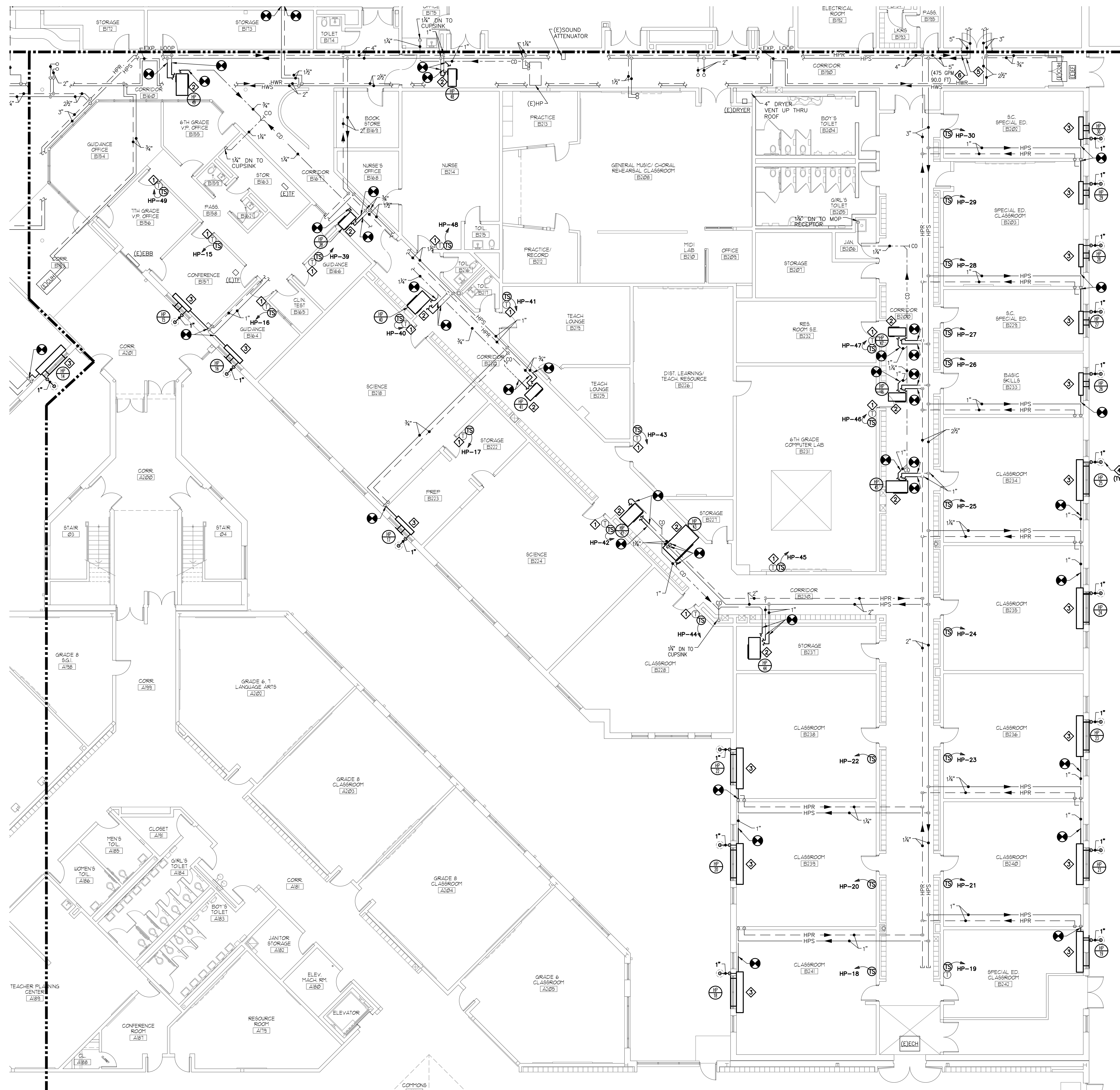
Drawing Name
PARTIAL FIRST FLOOR PLANS: PLUMBING NEW WORK - BLOCKS D1 & D2 - PIPING

SHANER E.S.

No.	Date	Description

Drawing Number
H212

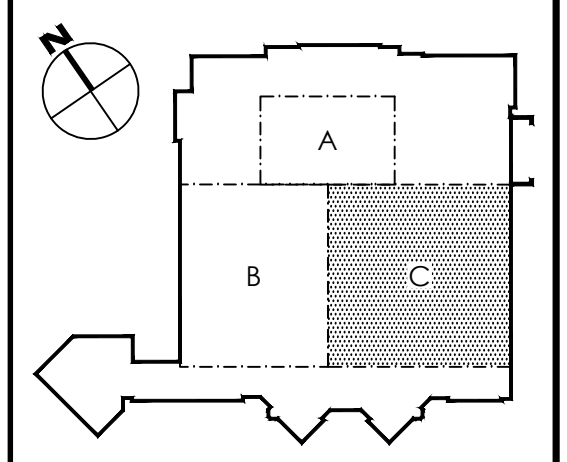
FILE PATH: S:\Projects\2018\201804_H212_Joseph_Shaner_ES_Renovations_Corrections\WAC_New_Work_Piping_Shaner.dwg
USER: SAGD - 2018/02/15 02:33 PM PLOTTED: 2019/02/15 05:24 PM PLOTTED BY: TML



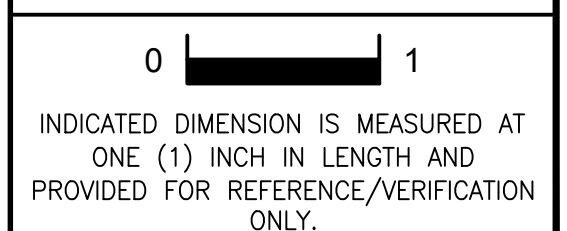
NEW WORK NOTES:

- ◆ EXISTING THERMOSTAT TO REMAIN CONNECTED TO THE EXISTING DDC SYSTEM FOR MONITORING PURPOSES.
- ◆ PROVIDE NEW WATER SOURCE HEAT PUMP AS INDICATED. PROVIDE NEW HANGERS, SUPPORTS, VIBRATION ISOLATION, AND ADDITIONAL ACCESSORIES PER THE SPECIFICATIONS. EXTEND EXISTING PIPING TO FACILITATE THE INSTALLATION OF THE NEW WSHP. REFER TO TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP - PIPING DETAIL ON DRAWING H212.
- ◆ PROVIDE NEW CONSOLE STYLE WATER SOURCE HEAT PUMP AS INDICATED. PROVIDE NEW SUPPORTS, VIBRATION ISOLATION, AND ADDITIONAL ACCESSORIES PER THE SPECIFICATIONS. EXTEND EXISTING PIPING ALONG THE WALL AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WSHP. PROVIDE NEW THRU-WALL CONDENSATE PIPING AS INDICATED. PROVIDE ALL REQUIRED OFFSETS, ELBOWS, AND ADDITIONAL FITTINGS IN ORDER TO FACILITATE THE CONNECTIONS.
- ◆ PROVIDE NEW CONDENSATE DRAIN THRU WALL TO DRY-WELL. PROVIDE DRY-WELL IN ACCORDANCE WITH DETAIL. COORDINATE WALL PENETRATION WITH EXISTING STRUCTURAL MEMBERS. SEAL PER DRY WELL DETAIL.
- ◆ PROVIDE FLOWMETER, SHUTOFF (BALL OR BUTTERFLY) VALVE, P/T PORTS AT THE INDICATED LOCATION. REFER TO THE WATER FLOW STATION DETAIL.
- ◆ PROVIDE PRESSURE-INDEPENDENT BALANCING VALVE. BALANCE TO THE INDICATED WATER FLOW RATE. REFER TO THE PRESSURE INDEPENDENT BALANCING STATION DETAILS.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION



**PARTIAL FIRST FLOOR PLAN
HVAC NEW WORK - BLOCK C - PIPING**
SCALE: 1/8" = 1'-0"

02/15/2019
ISSUED FOR BID

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL
CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-238-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com gmill@gillan-hartmann.com
G&H Project No. 2018-205

ENGINEER	DATE
MICHAEL S. GILLAN, PE	NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
1122 W. 34th Street
Philadelphia, PA 19104
WILLIAM D. HOPKINS III, AIA, LEED AP
1122 W. 34th Street
Philadelphia, PA 19104
GEORGE R. DUTHIE, JR., AIA, PP
1122 W. 34th Street
Philadelphia, PA 19104

GFVHD architects
planners
Frattak Veisz Hopkins Duthie P C
1515 Lower Ferry Road - Trenton - New Jersey 08628
Corporate: 40 Wiltshire Ave - Mont Clabe - Pennsylvania 17453
F V H D P C . C O M

Project Name
**ALTERATIONS AND
RENOVATIONS TO
WILLIAM DAVIES
MIDDLE SCHOOL**

Project Owner Name
**HAMILTON
TOWNSHIP BOARD
OF EDUCATION**

Project Location
**1876 DENNIS
FORMAN DR, MAYS
LANDING, NJ 08330**

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

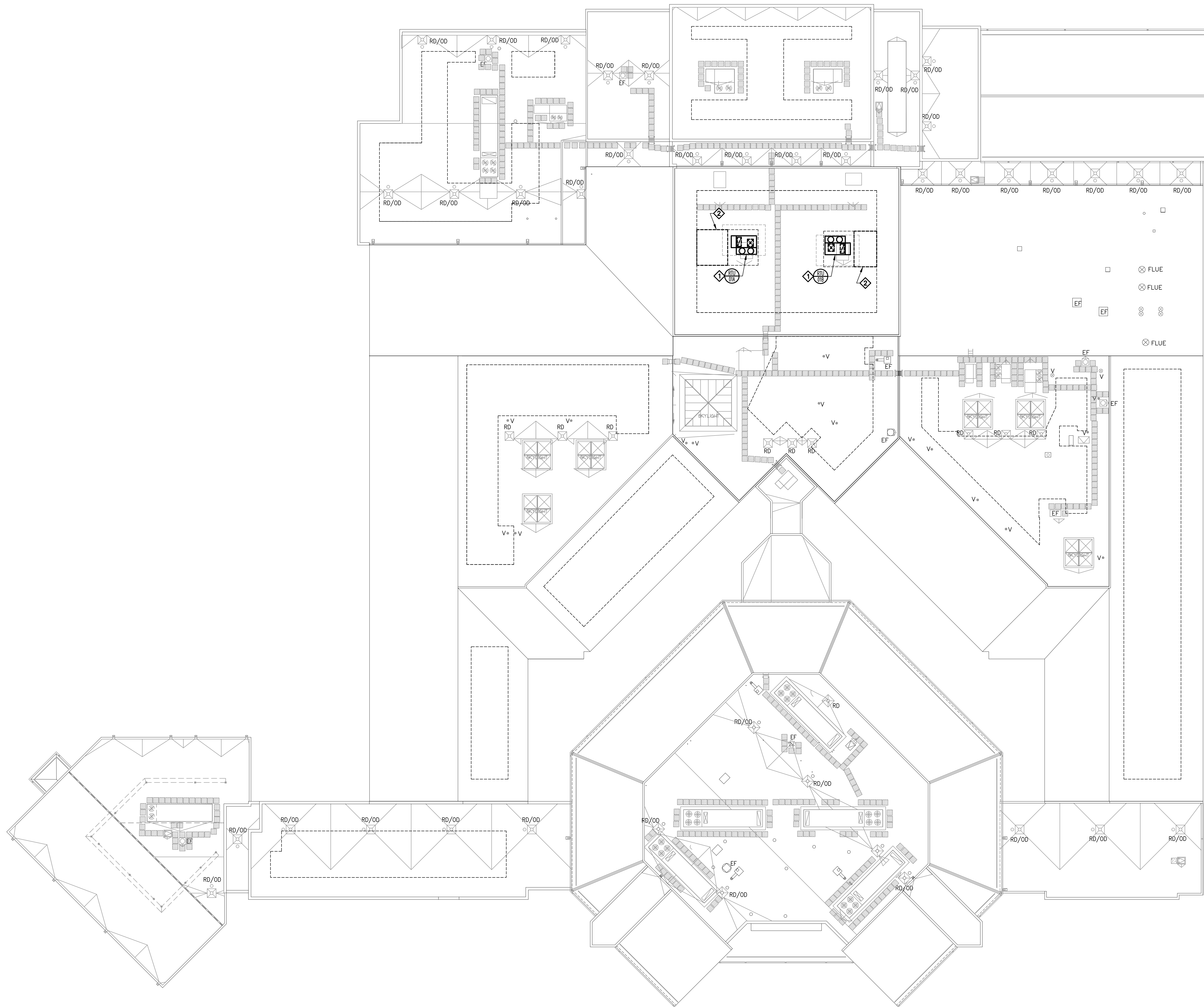
Drawing Name
**PARTIAL FIRST
FLOOR PLAN:
HVAC NEW WORK -
BLOCK C - PIPING**

DAVIES M.S.

No.	Date	Description

Drawing Number
H213

FILE PATH: C:\projects\2018\2018205_H213_William_Davies_Middle_School_Renovations_Drawings\WMC_New_Work_Piping_Davies.dwg
 USER: GSD: 2019/02/15 09:50 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML



NEW WORK NOTES:

- ◇ MODIFY EXISTING ROOF OPENING AS REQUIRED TO FACILITATE NEW RTU INSTALLATION.
- ◇ COORDINATE EXTENT OF SOLAR PANEL REMOVALS WITH THE ELECTRICAL CONTRACTOR TO FACILITATE NEW RTU INSTALLATION.

JOHN J. VEISZ, AIA, CSBA
 NJ-214266400 | PA-80620198
 WILLIAM D. HOPKINS III, AIA, LEED AP
 NJ-214266400 | PA-80620198
 GEORGE R. DUTHIE, JR., AIA, PP
 NJ-214266400 | PA-80620198

FVHHD architects
 planners
Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
 F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

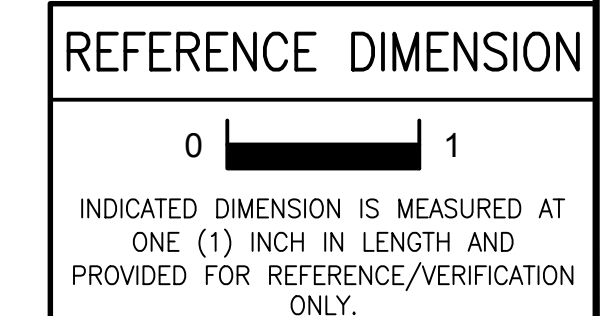
Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C
 Project Date
02.15.2019
 Checked By
TJB
 Drawn By
HJB
 Scale
AS NOTED

Drawing Name
ROOF PLAN: HVAC NEW WORK
DAVIES M.S.

No.	Date	Description

Drawing Number
H221



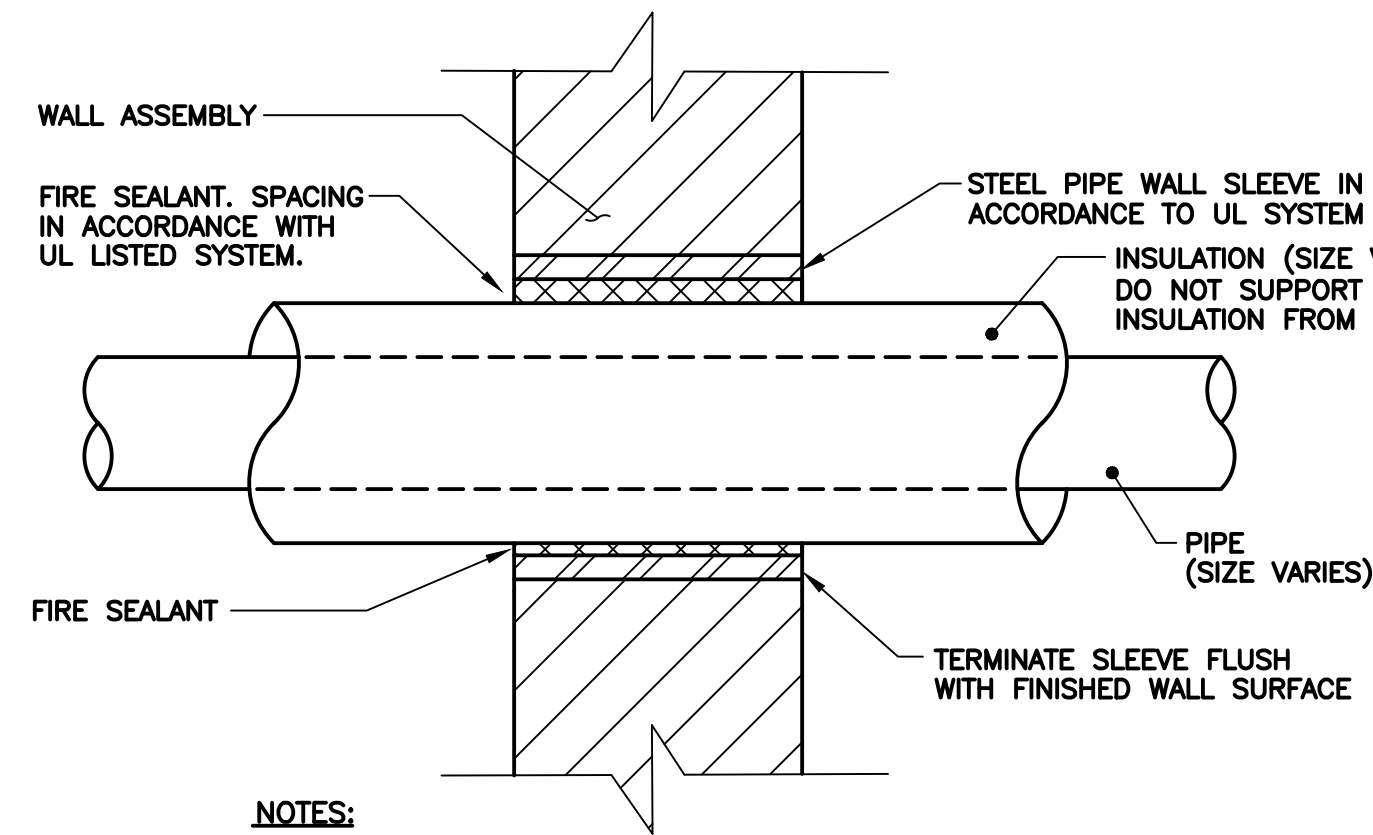
1 HVAC NEW WORK - ROOF PLAN
 SCALE: 20' = 1'-0"

02/15/2019
 ISSUED FOR BID

G Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghmail@gillan-hartmann.com
 G&H Project No. 2018-205

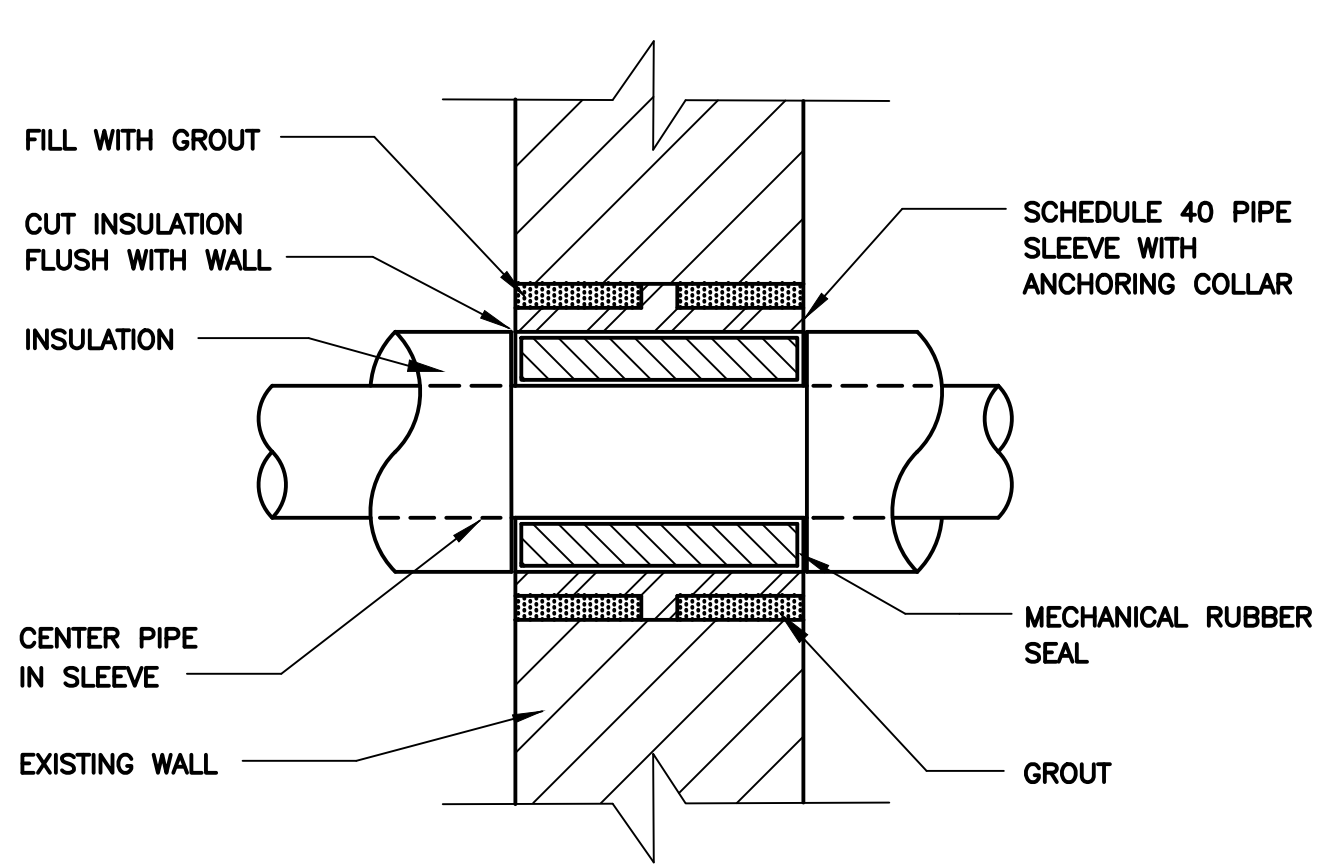
ENGINEER
 MICHAEL S. GILLAN, PE
 DATE
 NO. 24GE04470000

FILE PATH: C:\projects\2018\02152019\H221 William Davies MS Renovations Drawings\WMC New Work Roof Drawings.dwg
 LAST SAVED: 2019/02/15 09:50 AM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML
 © 2018 GILLAN & HARTMANN INC.



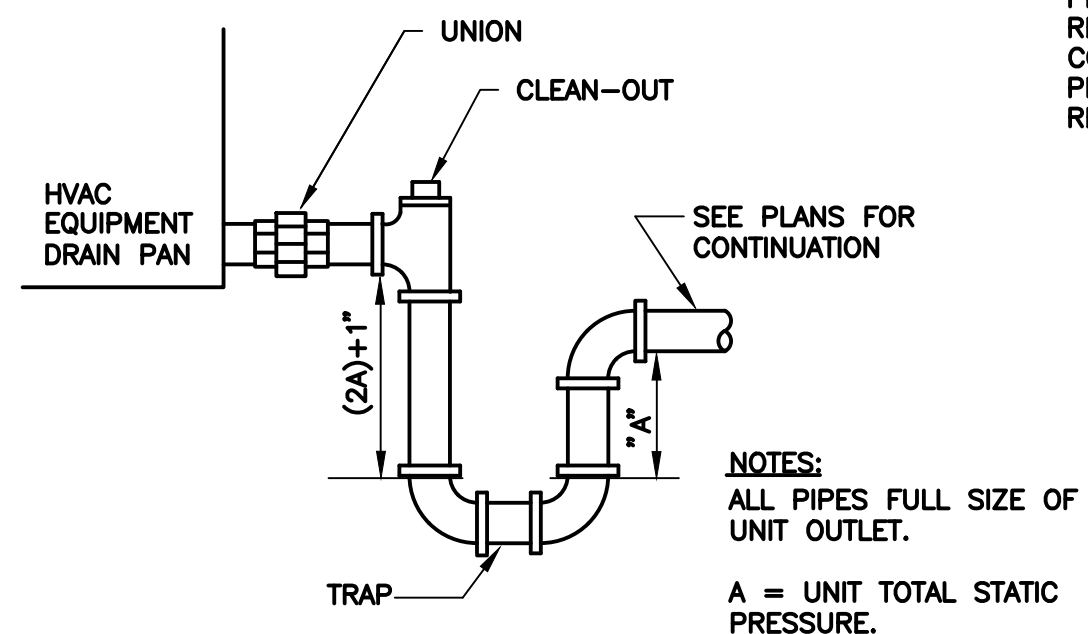
- NOTES:**
1. PROVIDE UL LISTED FIRE RATED THRU WALL SYSTEM IN ACCORDANCE WITH WALL TYPE, AND SCHEDULED PIPING AND INSULATION.
 2. ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.
 3. FOR NON-FIRE RATED WALL ASSEMBLIES: UTILIZE STANDARD CAULK IN LIEU OF FIRE CAULK.

1 **DETAIL - TYPICAL PIPE THRU WALL**
H501 NO SCALE



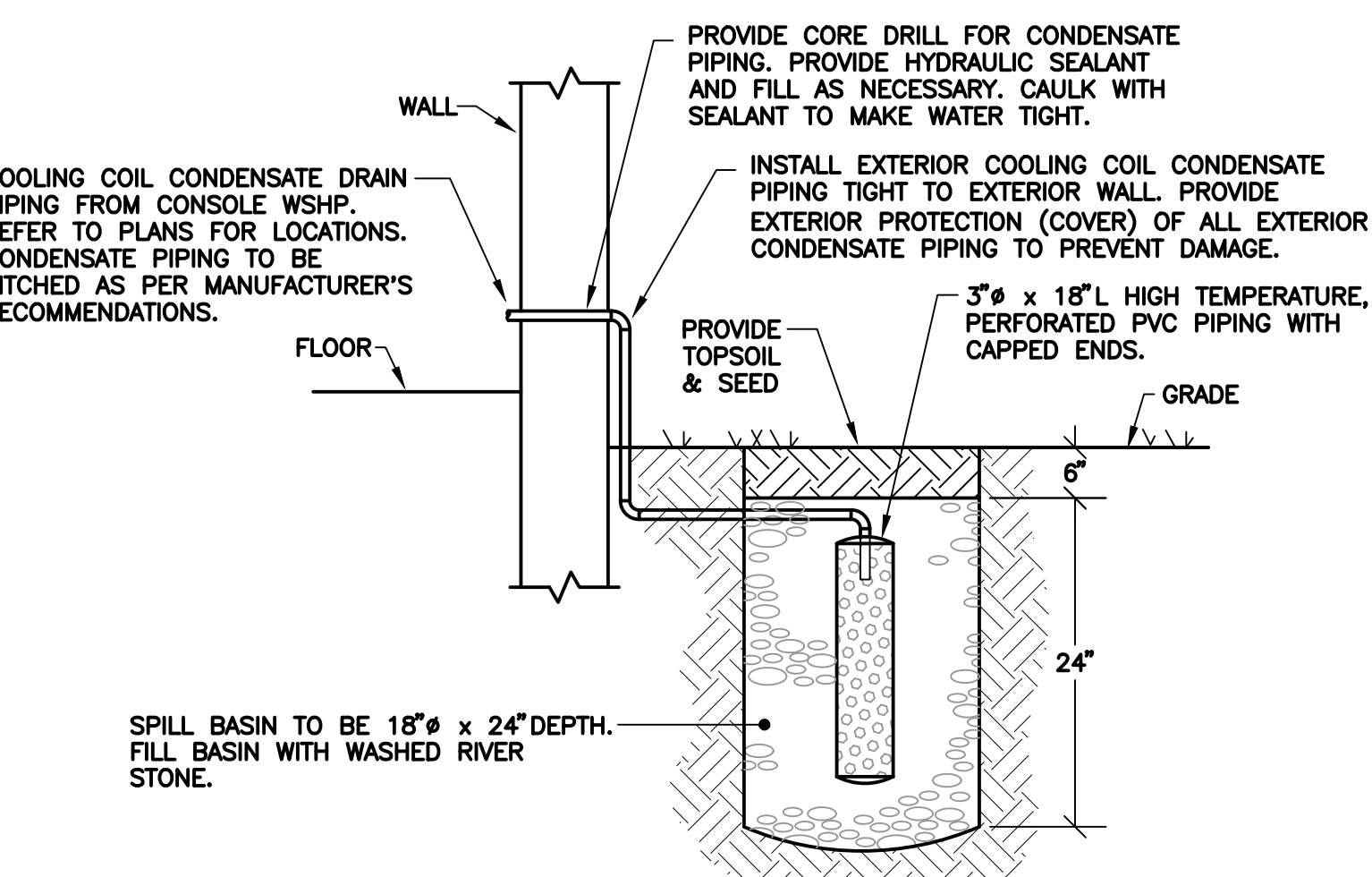
NOTE: ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.

2 **DETAIL - PIPE THRU EXTERIOR WALL**
H501 NO SCALE



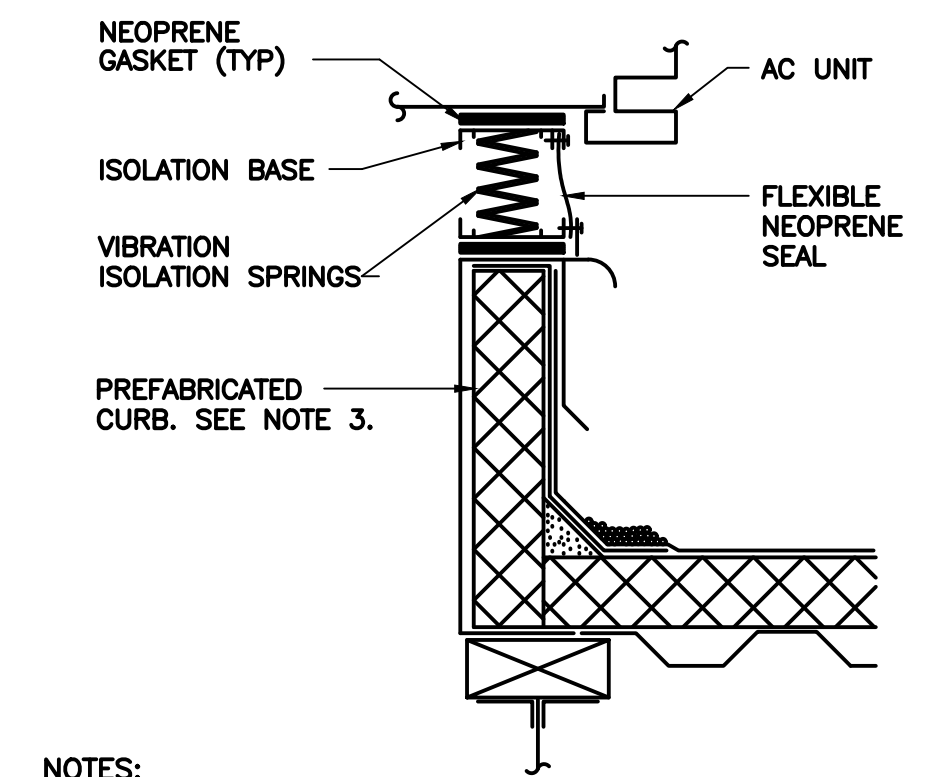
NOTE: FOR ROOFTOP UNITS TURN PIPING DOWN AND TERMINATE PIPING 3-INCHES ABOVE FINISHED ROOF. PROVIDE 12" L x 12" W x 1/2" H RUBBER PAD FOR CONDENSATE TO SPILL ON, UNLESS OTHERWISE NOTED. COORDINATE PAD REQUIREMENTS TO MAINTAIN EXISTING ROOF WARRANTY.

3 **DETAIL - CONDENSATE TRAP**
H501 NO SCALE



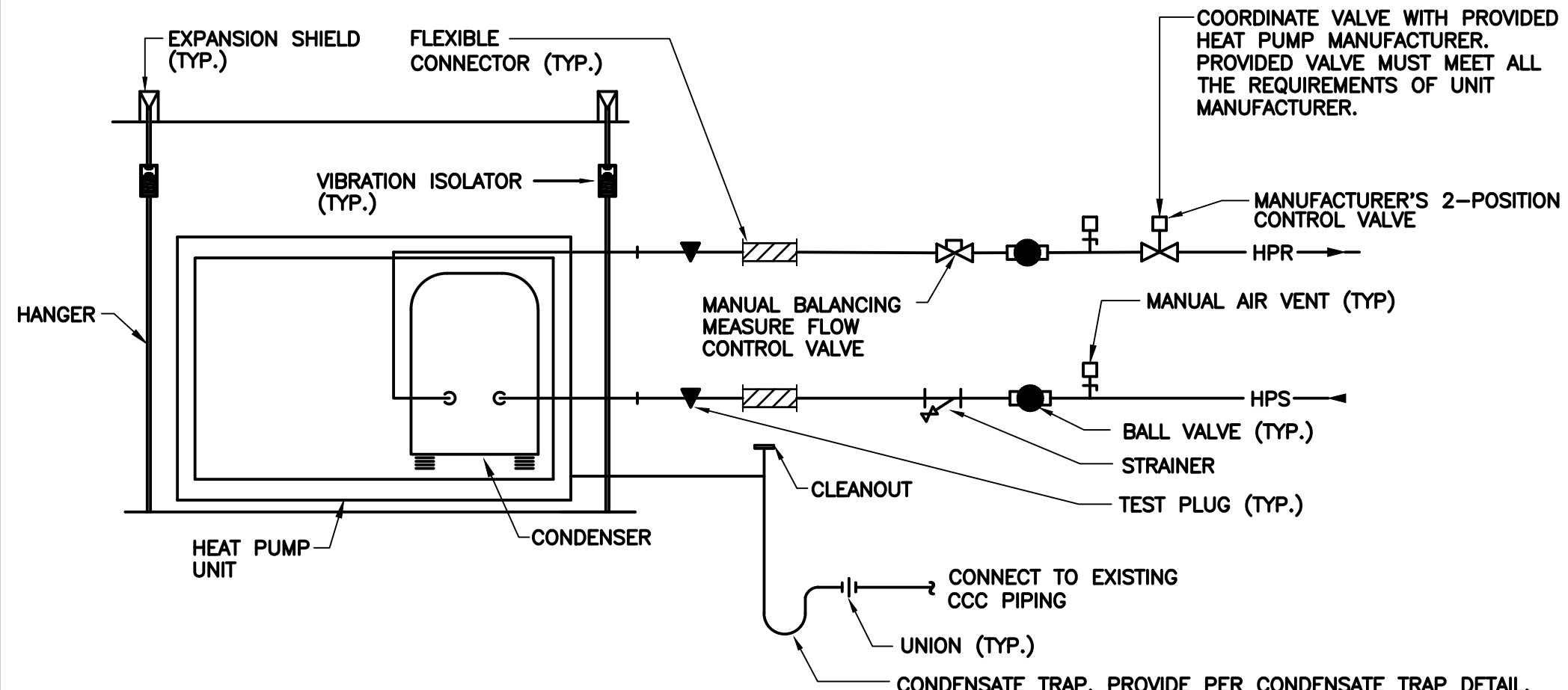
- NOTES:**
1. WHERE DRYWELLS ARE INSTALLED IN PAVEMENT, PROVIDE CAP AND PATCH TO MATCH EXISTING CONDITIONS.

4 **DETAIL - TYPICAL CONDENSATE DRY-WELL**
H501 NO SCALE



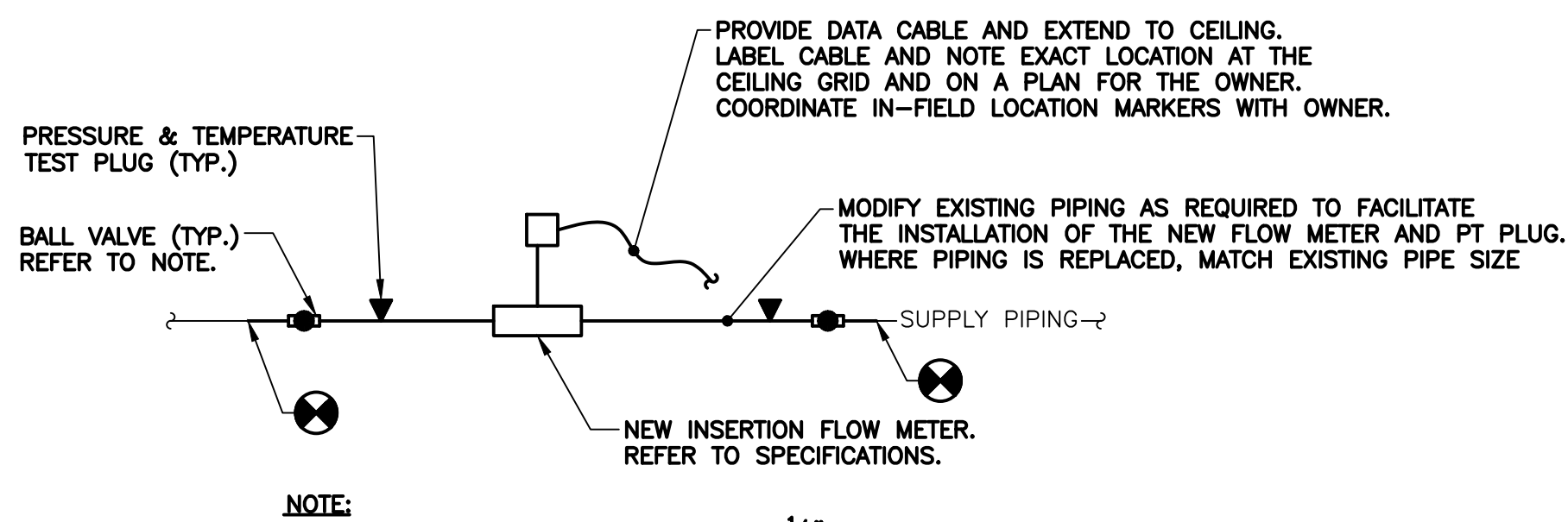
- NOTES:**
1. PROVIDE CURB IN ACCORDANCE TO ROOF SYSTEM.
 2. PROVIDE INSULATED ROOF CURB.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.

5 **DETAIL - ROOFTOP UNIT CURB**
H501 NO SCALE

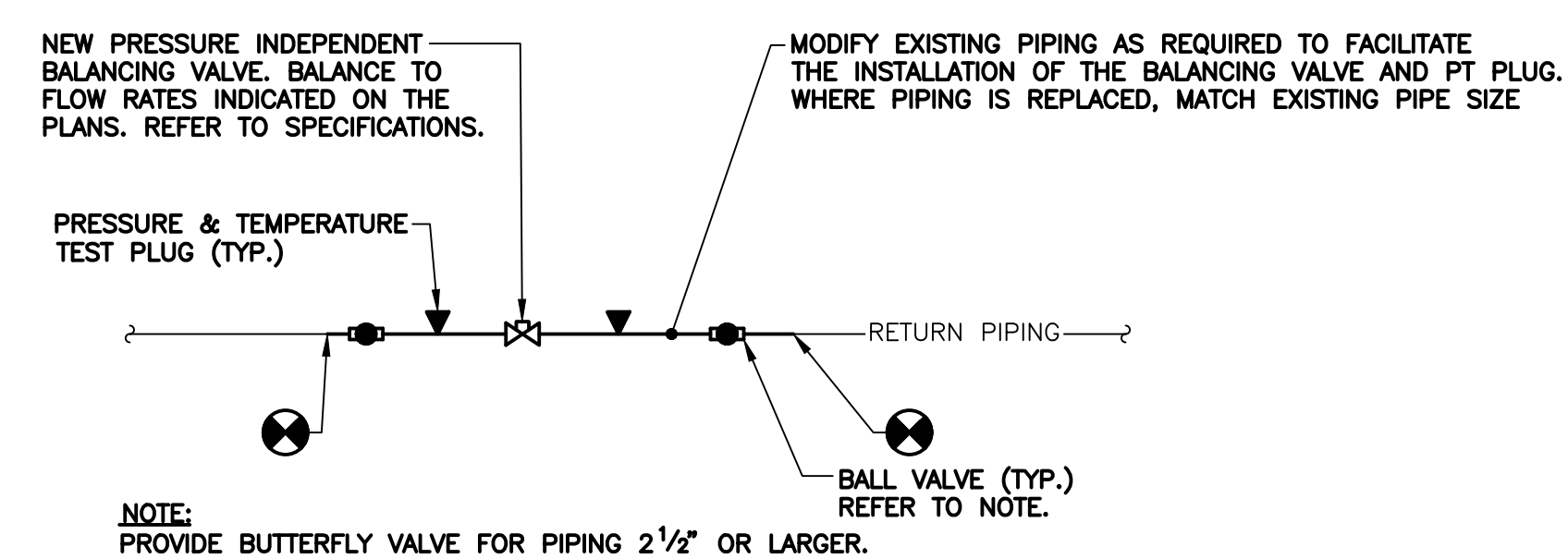


6 **DETAIL - TYPICAL HEAT PUMP PIPING**
H501 NO SCALE

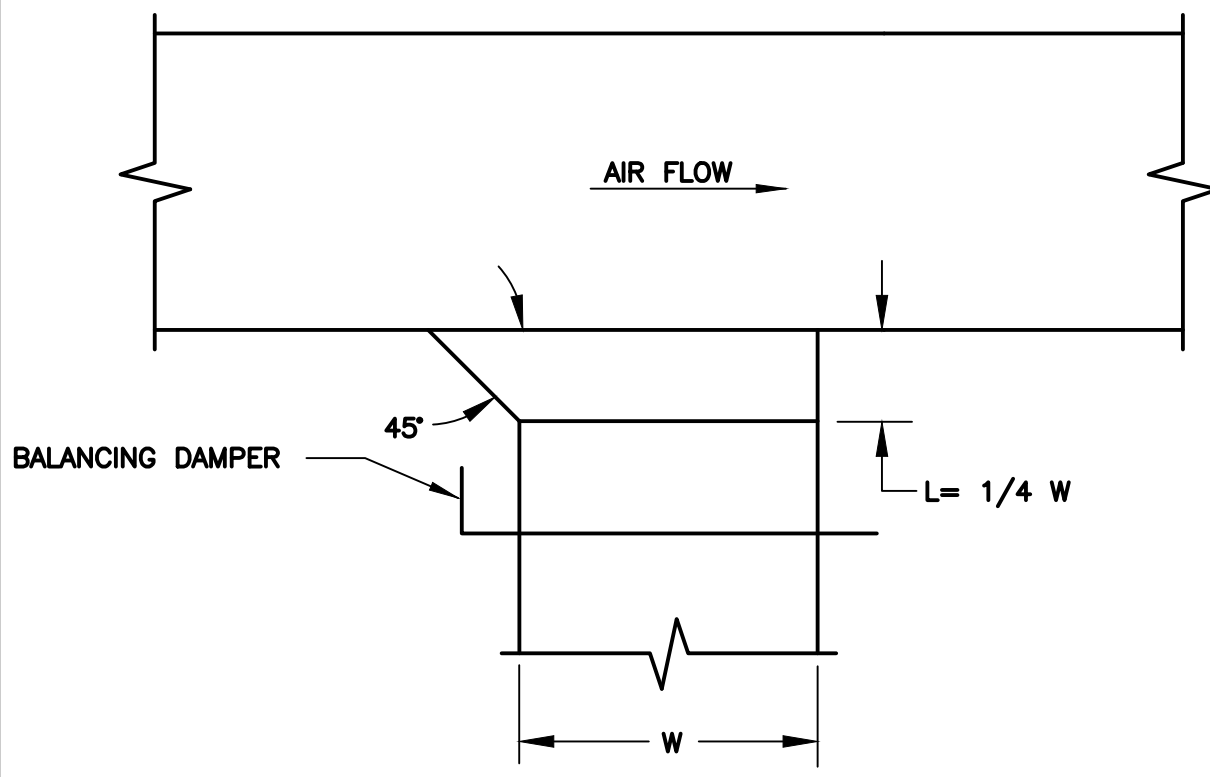
NOTE: PROVIDE BUTTERFLY VALVE FOR PIPING 2 1/2" OR LARGER. IN LIEU OF BALL VALVE.



7 **DETAIL - WATER FLOW STATIONS**
H501 NO SCALE

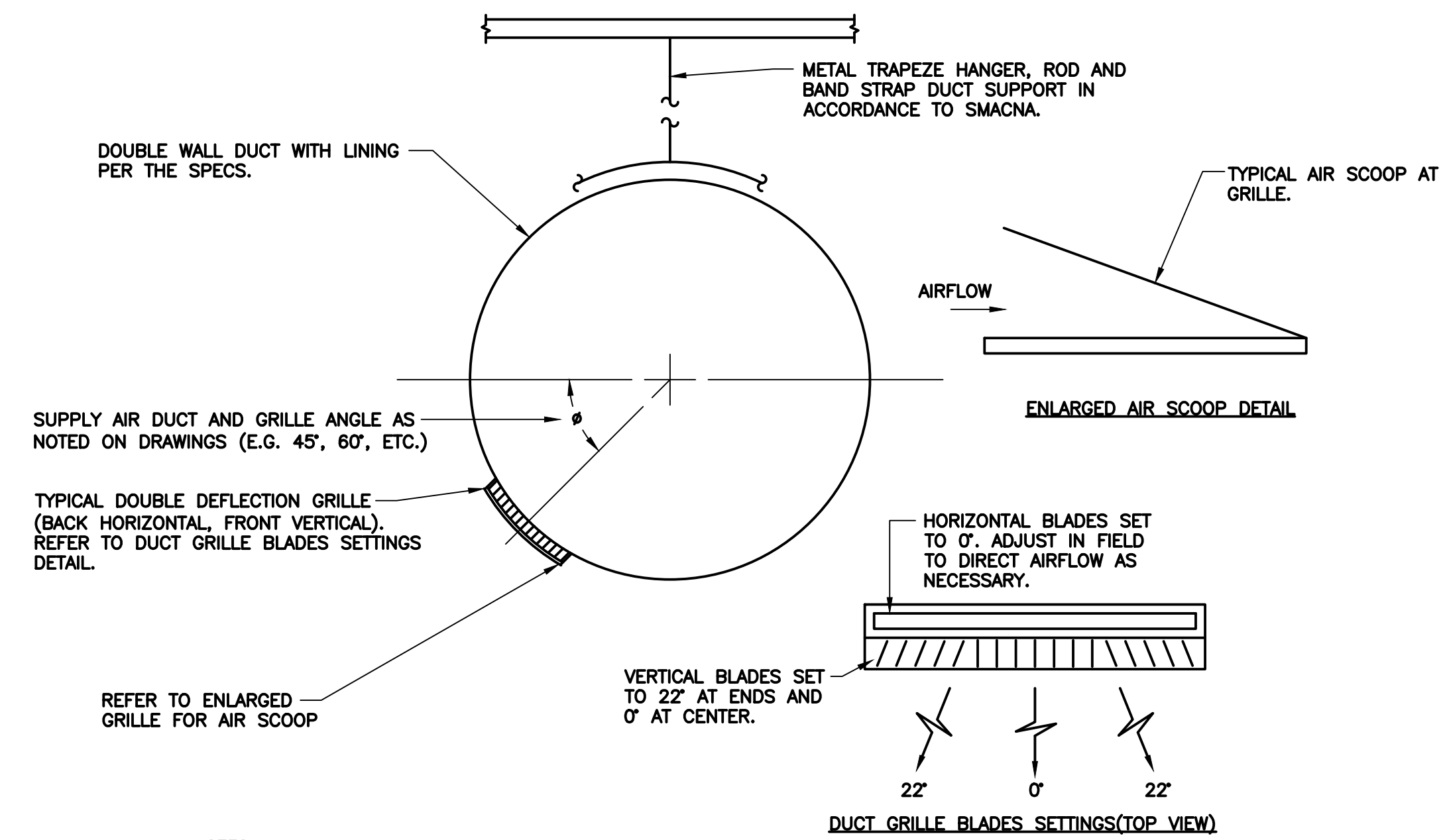


8 **DETAIL - PRESSURE INDEPENDENT BALANCING STATION**
H501 NO SCALE



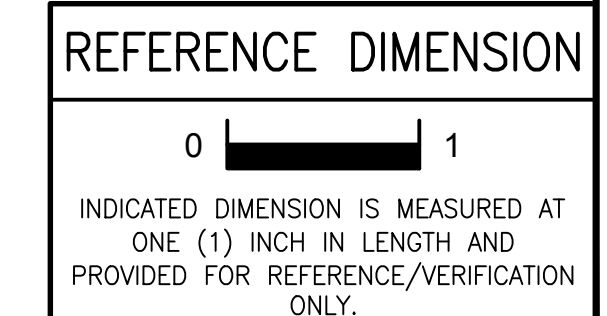
NOTE: TAKE-OFF TYPICAL FOR ALL DROPS & BRANCHES

9 **DETAIL - TYPICAL TAKE OFF**
H501 NO SCALE



- NOTES:**
1. GRILLE TO BE PAINTED BY MANUFACTURER TO MATCH APPROVED OPEN CEILING COLOR.
 2. EXPOSED DUCT AND SUPPORT TO BE PAINTED PER THE SPECIFICATIONS. COLOR TO BE APPROVED BY ARCHITECT.

10 **DETAIL - EXPOSED ROUND DUCT/GRILLE INSTALLATION**
H501 NO SCALE



INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1583 302-654-5959
www.gillan-hartmann.com | ghm@gillan-hartmann.com
G&H Project No. 2018-205

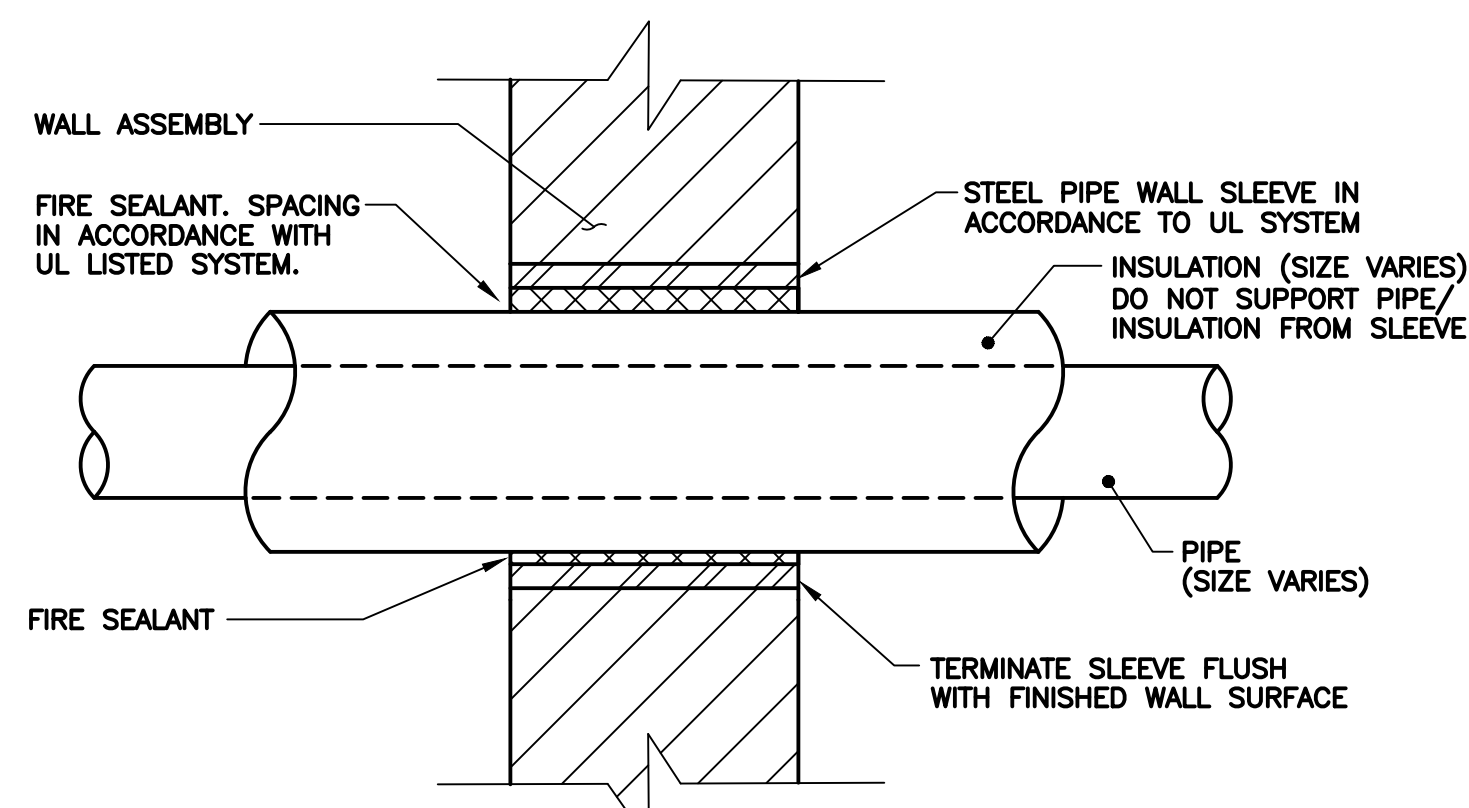
02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE
DATE: NO. 24GE04470000

GFVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Williker Ave - Mont Clare - Pennsylvania 17453

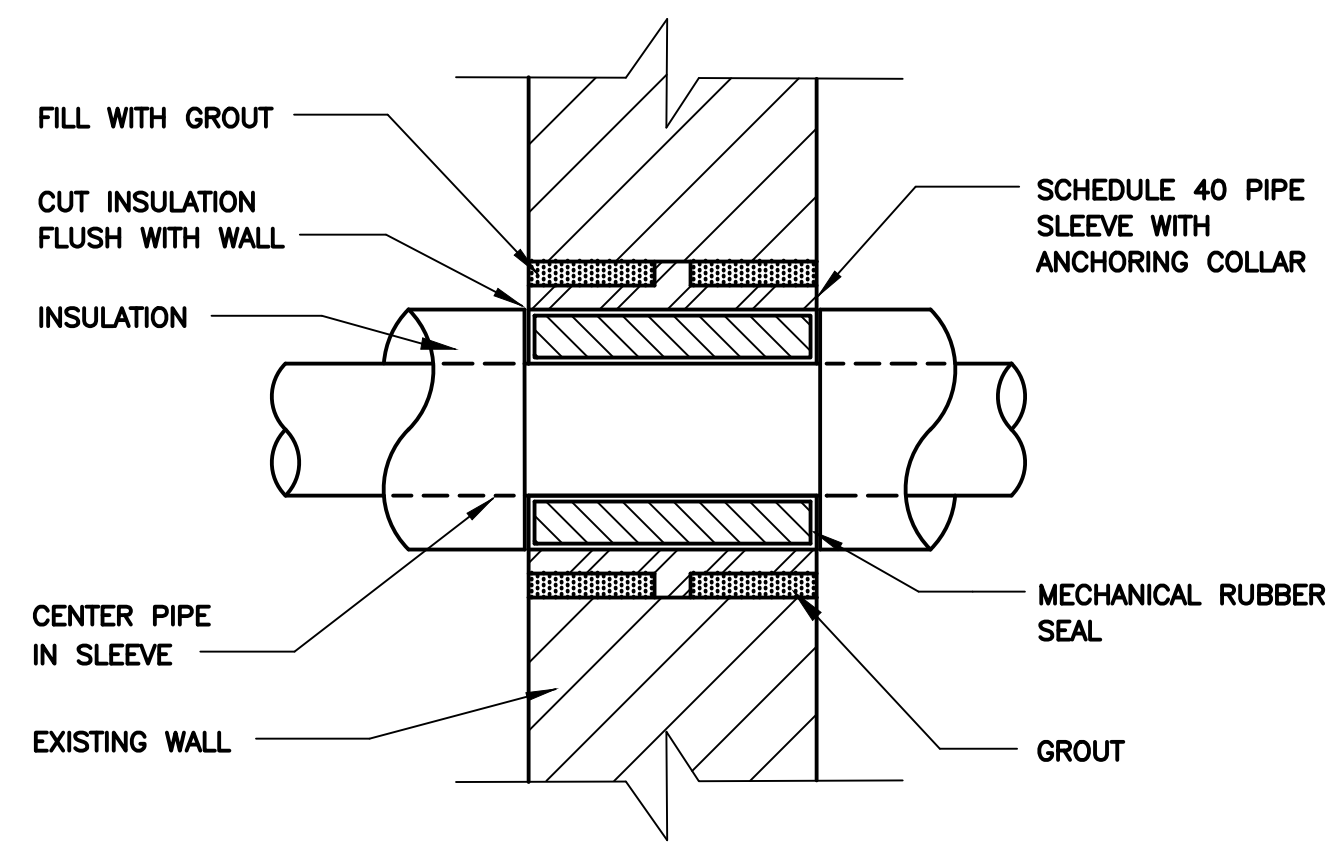
Project Name: ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL
Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION
Project Location: 1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330
Project Number: 4937C
Project Date: 02.15.2019
Checked By: TJB
Drawn By: HJB
Scale: AS NOTED
Drawing Name: HVAC DETAILS
Drawing Number: H501

FILE PATH: C:\projects\2018\02152019\H501_Hilton_Davies_Middle_School_Renovations_Drawing\HVAC_Details_Davies.dwg
LAST SAVE: 2019/02/15 09:53 AM PLOTTED: 2019/02/15 04:44 PM PLOTTED BY: TML



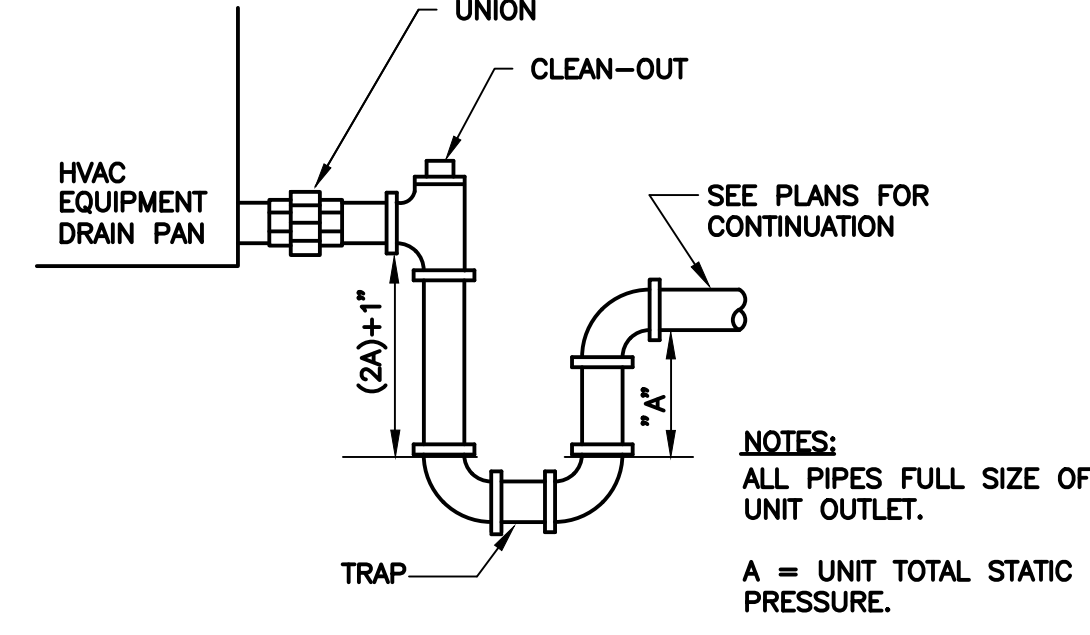
- NOTES:**
1. PROVIDE UL LISTED FIRE RATED THRU WALL SYSTEM IN ACCORDANCE WITH WALL TYPE, AND SCHEDULED PIPING AND INSULATION.
 2. ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.
 3. FOR NON-FIRE RATED WALL ASSEMBLIES: UTILIZE STANDARD CAULK IN LIEU OF FIRE CAULK.

1 DETAIL -- TYPICAL PIPE THRU WALL
H501 NO SCALE



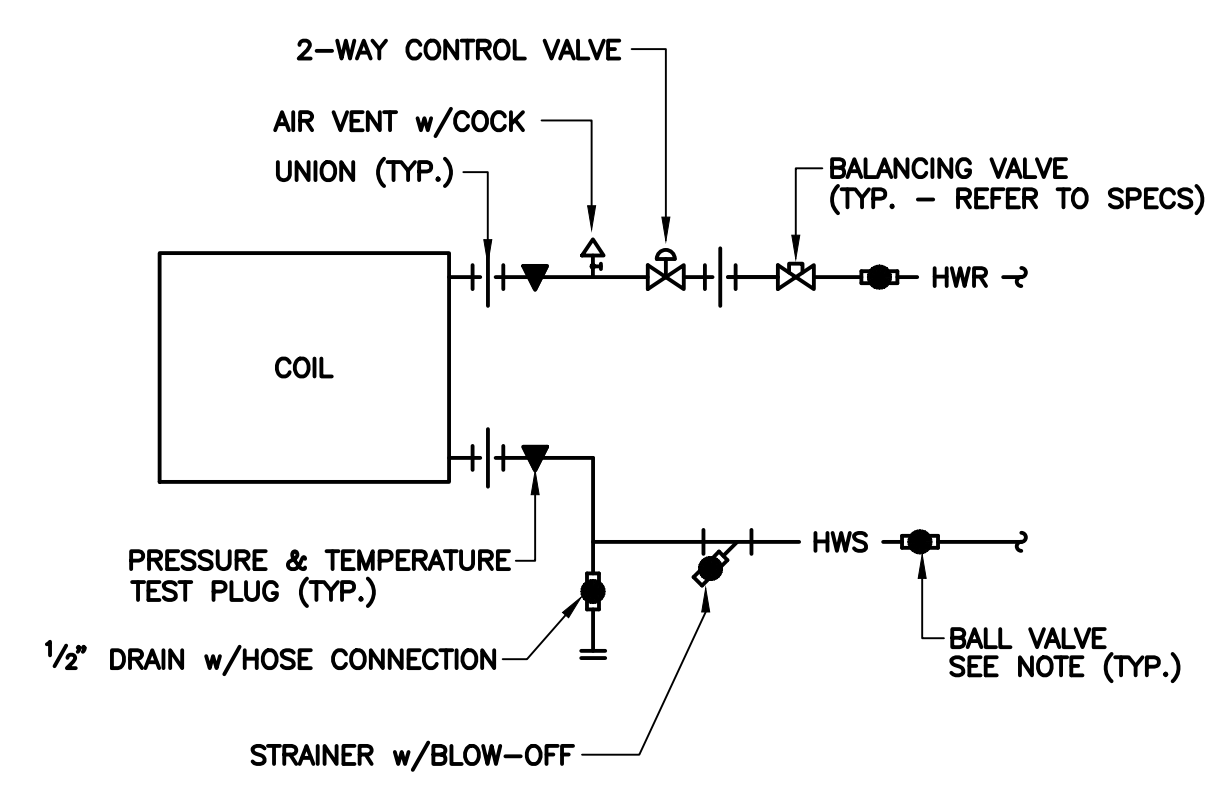
NOTE: ALL PENETRATIONS INTERIOR TO BUILDING TO BE PROVIDED BY ASSOCIATED TRADE CONTRACTOR.

2 DETAIL -- PIPE THRU EXTERIOR WALL
H501 NO SCALE



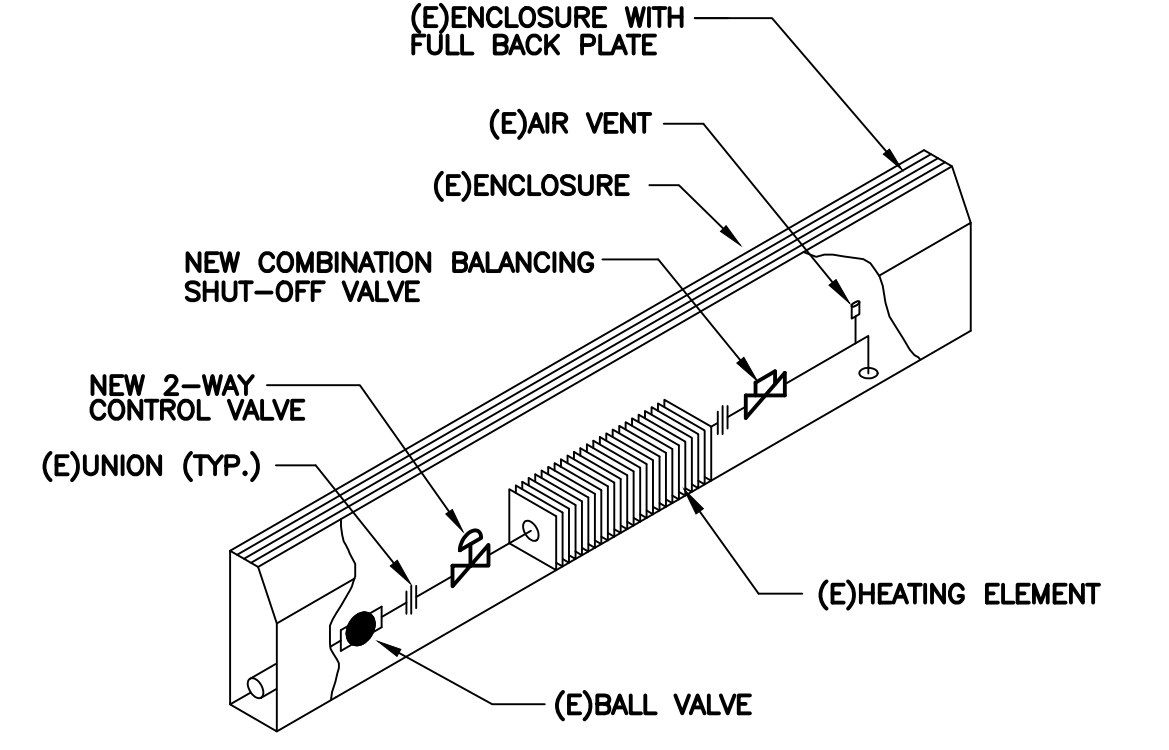
NOTE: FOR ROOFTOP UNITS TURN PIPING DOWN AND TERMINATE PIPING 3-INCHES ABOVE FINISHED ROOF. PROVIDE 12" Lx12" Wx1/2" H RUBBER PAD FOR CONDENSATE TO SPILL ON, UNLESS OTHERWISE NOTED. COORDINATE PAD REQUIREMENTS TO MAINTAIN EXISTING ROOF WARRANTY.

3 DETAIL -- CONDENSATE TRAP
H501 NO SCALE

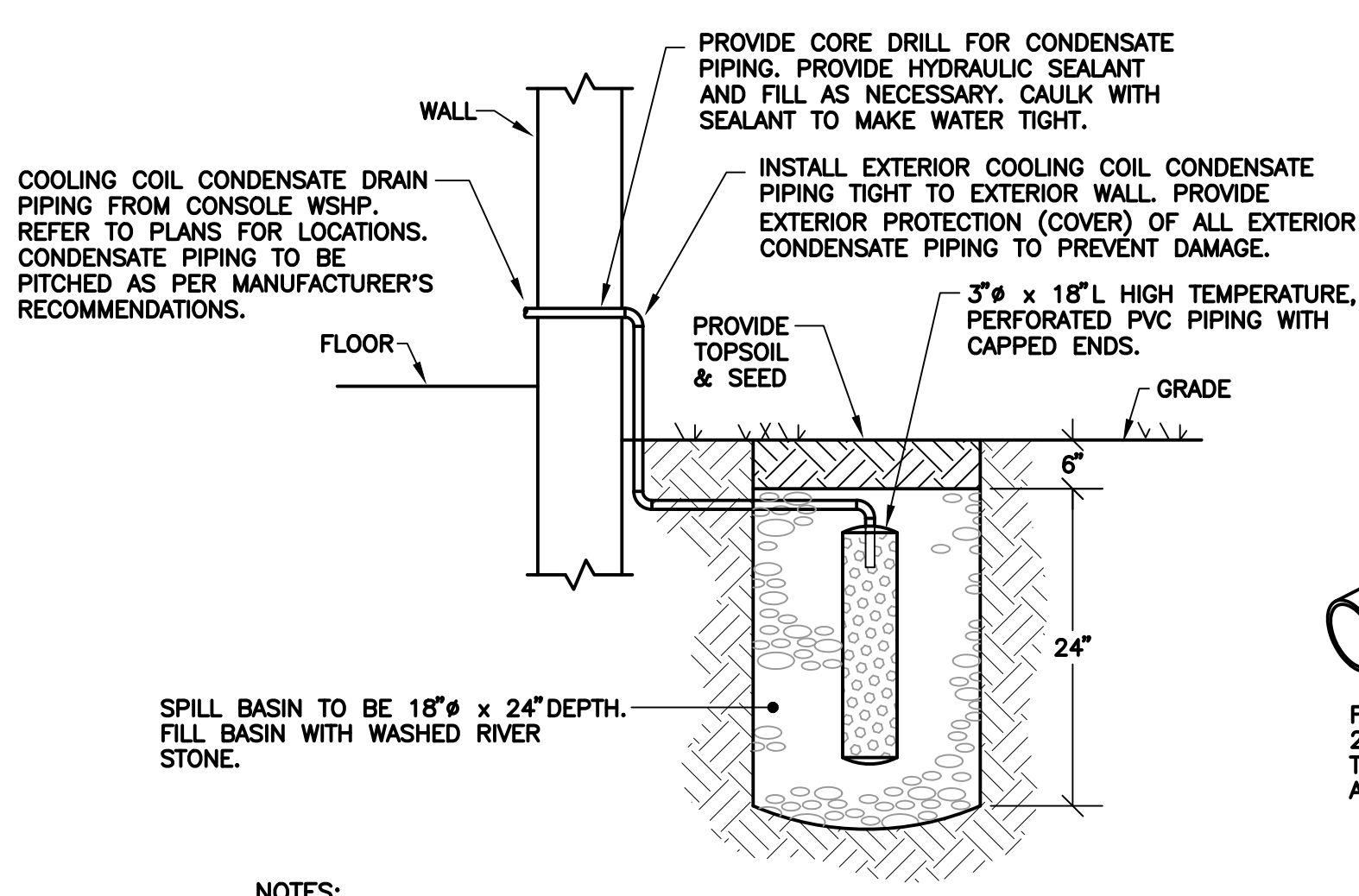


NOTE: PROVIDE BUTTERFLY VALVE FOR PIPING 2 1/2" OR LARGER.

4 DETAIL -- 2-WAY CONTROL VALVE COIL PIPING
H501 NO SCALE

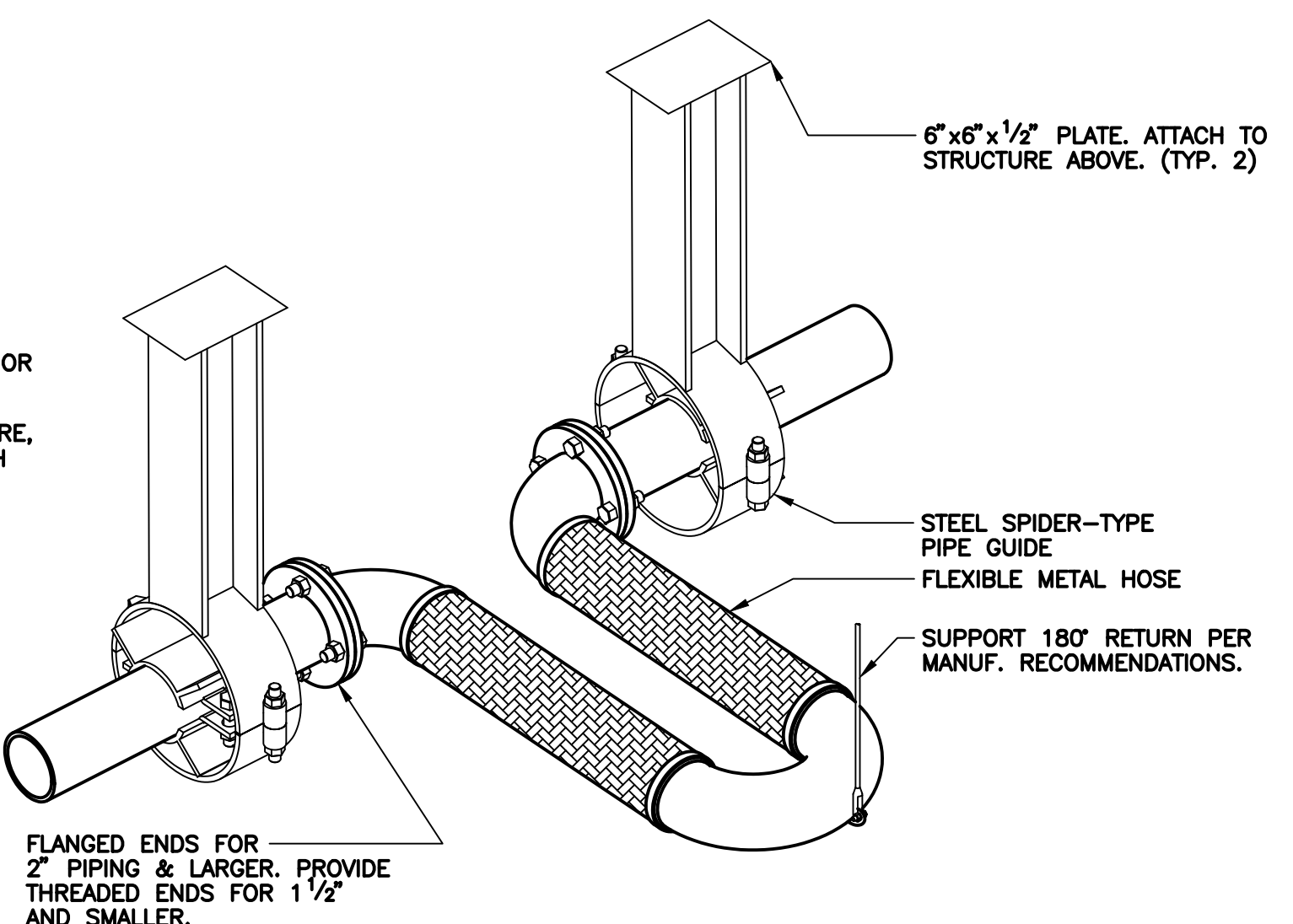


5 DETAIL -- EXISTING FIN TUBE PIPING
H501 NO SCALE



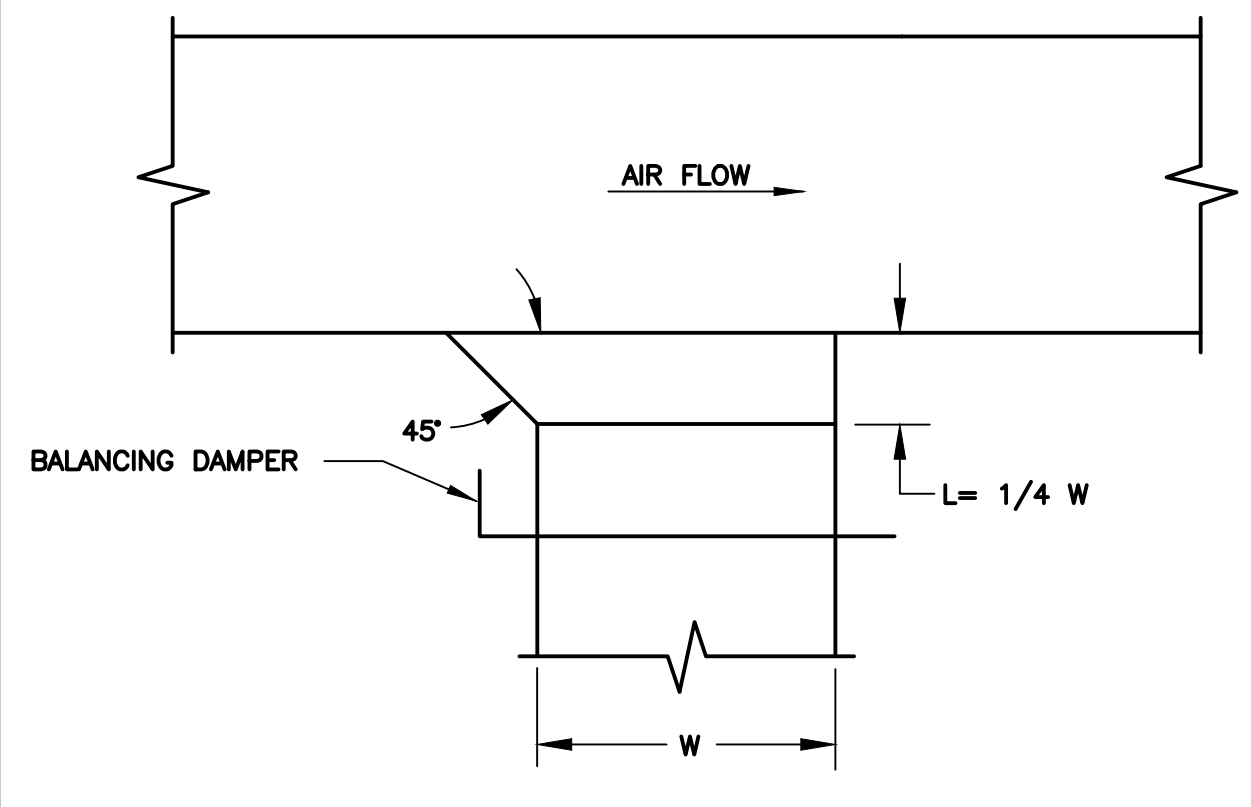
- NOTES:**
1. WHERE DRYWELLS ARE INSTALLED IN PAVEMENT, PROVIDE CAP AND PATCH TO MATCH EXISTING CONDITIONS.

6 DETAIL -- TYPICAL CONDENSATE DRY-WELL
H501 NO SCALE



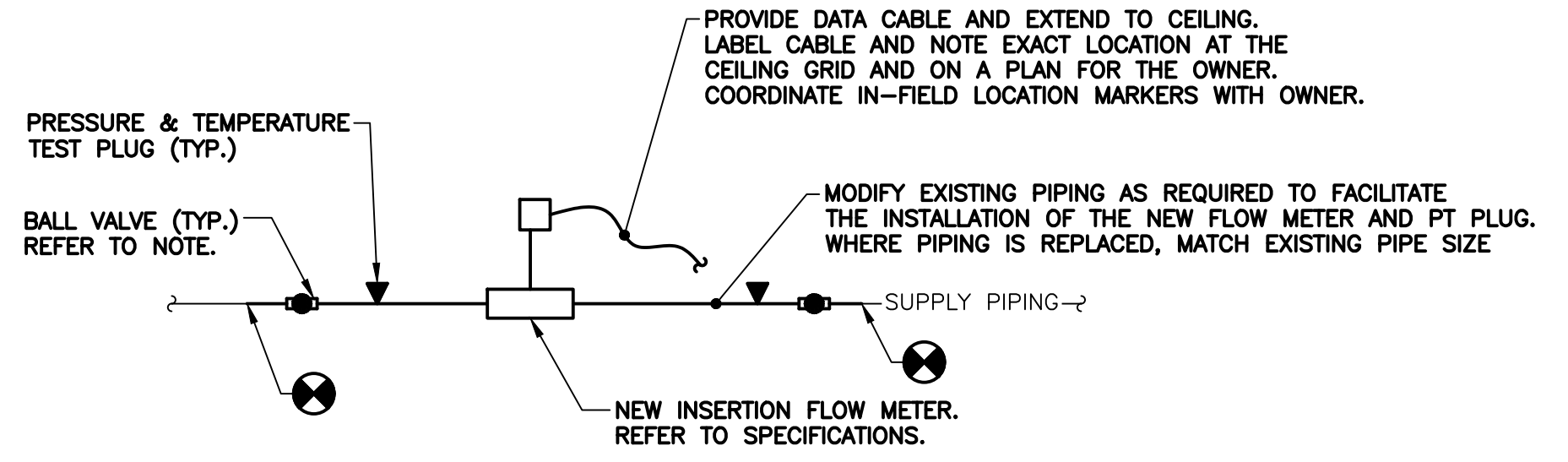
NOTE: INSTALL EXPANSION LOOP WITHIN 4 PIPE DIAMETERS FROM PIPE GUIDE.

7 DETAIL -- EXPANSION LOOP/JOIN
H501 NO SCALE



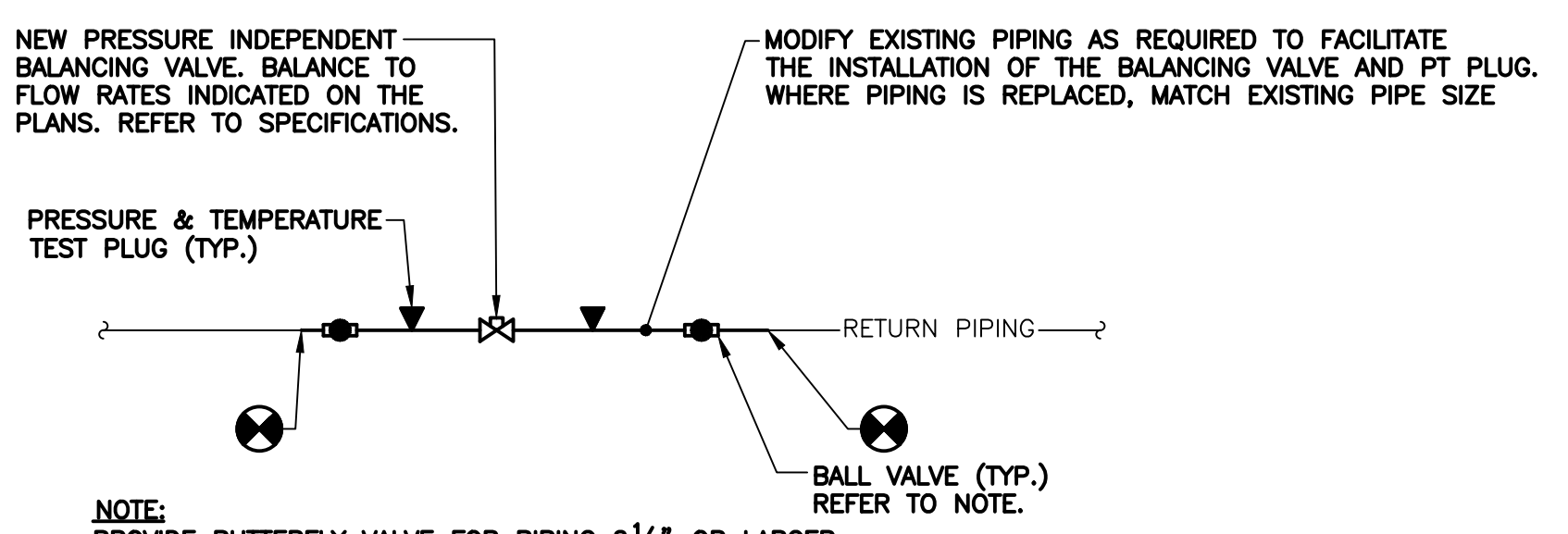
NOTE: TAKE-OFF TYPICAL FOR ALL DROPS & BRANCHES

8 DETAIL -- TYPICAL TAKE OFF
H501 NO SCALE



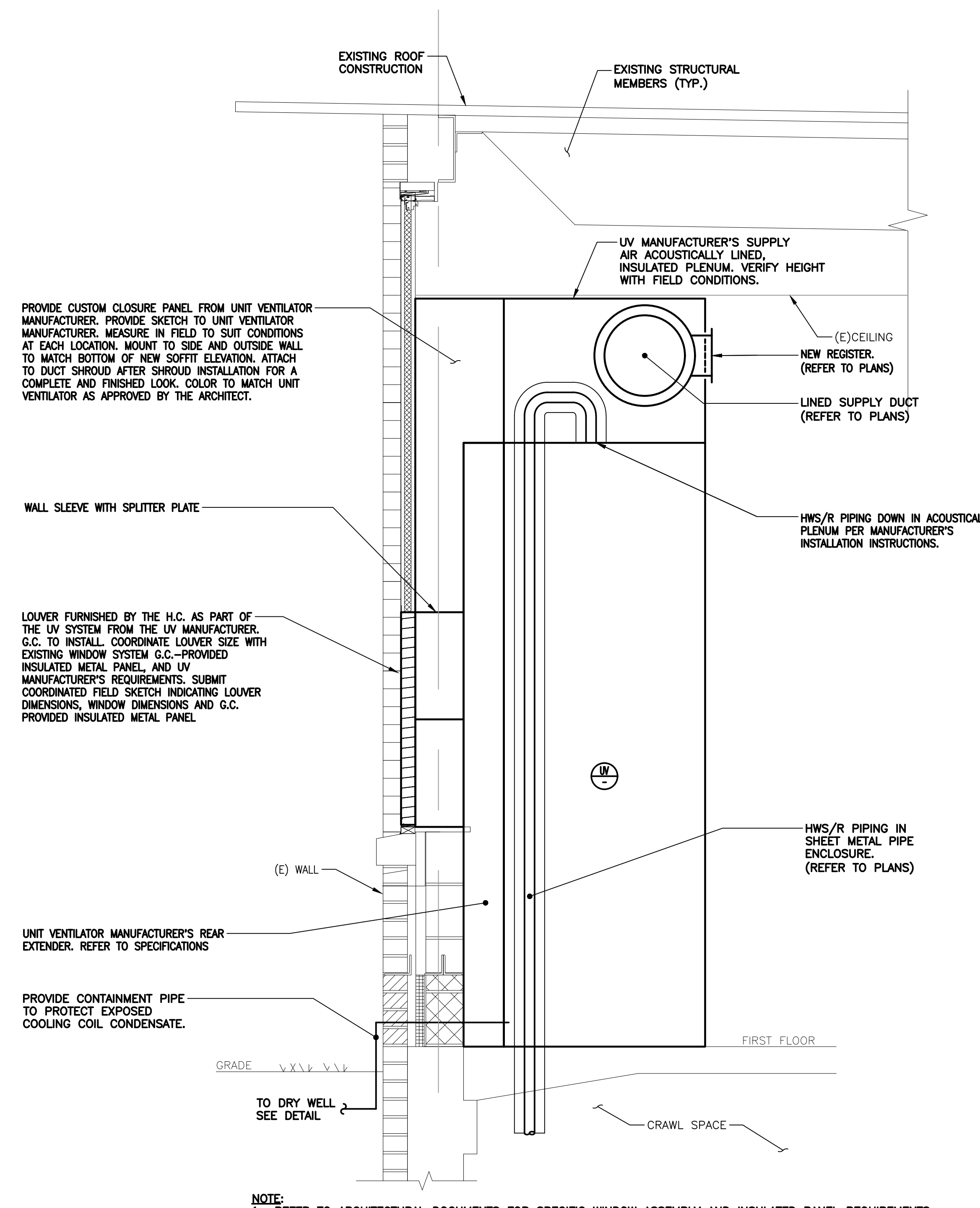
NOTE: PROVIDE BUTTERFLY VALVE FOR PIPING 2 1/2" OR LARGER.

9 DETAIL -- WATER FLOW STATIONS
H501 NO SCALE



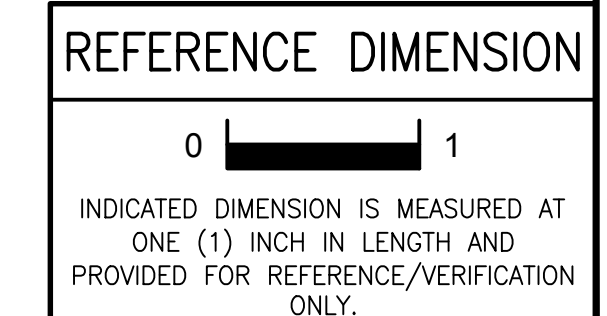
NOTE: PROVIDE BUTTERFLY VALVE FOR PIPING 2 1/2" OR LARGER.

10 DETAIL -- PRESSURE INDEPENDENT BALANCING STATION
H501 NO SCALE



NOTE: 1. REFER TO ARCHITECTURAL DOCUMENTS FOR SPECIFIC WINDOW ASSEMBLY AND INSULATED PANEL REQUIREMENTS.

11 DETAIL -- TYPICAL UNIT VENTILATOR
H501 NO SCALE



INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com gmail@gillan-hartmann.com
Get. of Auth #24027932400 G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

EFVHD architects planners
Fraytak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Williker Ave - Mont Clear - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTRIE, JR., AIA, PP

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B

Project Date
02.15.2019

Checked By
TJB

Drawn By
HJB

Scale
AS NOTED

Drawing Name
HVAC DETAILS

Revisions

No.	Date	Description

SHANER E.S.

Drawing Number
H501

FILE PATH: E:\Projects\2018\20180204_Hsh_Joseph_Shaner_es_renovations_HVAC_Details\Drawings\HVAC_Details_H501.dwg PLOTTED BY: TML
LAST SAVED: 2019/02/15 04:17 PM PLOTTED: 2019/02/15 05:24 PM

UNIT VENTILATOR PERFORMANCE

Table with columns for UNIT TYPE, SUPPLY FAN, EXHAUST, ENERGY WHEEL, COOLING, RE-HEAT, HEATING, ELECTRICAL CHARACTERISTICS, and REMARKS.

- (1) PROVIDE SINGLE POINT ELECTRICAL CONNECTION AND FACTORY MOUNTED AND DISCONNECT SWITCH.
(2) PROVIDE MERV 8 FILTER.
(3) PROVIDE MANUFACTURER'S DISCHARGE PLENUM.
(4) FURNISH MANUFACTURER'S LOUVER. COORDINATE LOUVER SIZE AND ASSEMBLY WITH THE WALL SYSTEM WITH THE G.C.
(5) PROVIDE SKETCH OF CUSTOM FILLER PANELS TO MANUFACTURER. COORDINATE CUSTOM FILLER PIECE WITH FIELD CONDITIONS.

UNIT VENTILATOR SCHEDULE

Table with columns for REF. NO., AREA SERVED (SCHOOL, ROOM NUMBER, ROOM NAME), UNIT TYPE, CONTROL VALVE TYPE, and REMARKS.

- (1) REFER TO UNIT VENTILATOR PERFORMANCE SCHEDULE.
(2) PROVIDE MANUFACTURER'S PRE-WIRED DISCONNECT SWITCH.
(3) PROVIDE CONTROL VALVE IN ACCORDANCE WITH 2-WAY CONTROL VALVE DETAILS.
(4) PROVIDE WITH MANUFACTURERS 6" REAR EXTENSION PANEL AND CUSTOM FILLER PIECES.

DIFFUSER, REGISTER & GRILLE SCHEDULE

Table with columns for REF. NO., TYPE, CFM, NECK SIZE, MAX. PRESS. DROP, MAX. NECK VELOCITY, MAX. NC, BLOW PATTERN, and REMARKS.

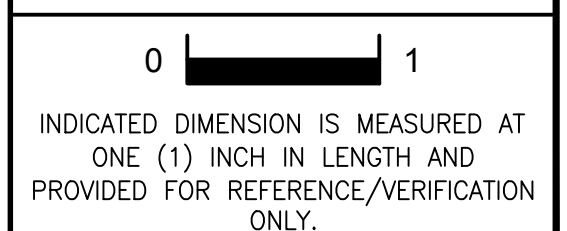
- (1) DOUBLE DEFLECTION.
(2) UNLESS INDICATED OTHERWISE ON THE PLANS ALL BLOW PATTERNS ARE TO BE 4-WAY.
(3) COLOR TO BE SELECTED BY THE PROFESSIONAL.
(4) PROVIDE OPPOSED BLADE BALANCING DAMPER IN DEVICE. DAMPER SHALL BE ADJUSTABLE FROM THE FRONT FACE.
(5) PROVIDE 24"x24" LAY-IN PANEL FOR CEILING GRID.

HVAC VENTILATION SCHEDULE - JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Large table detailing HVAC ventilation requirements for various rooms, including columns for room number, room name, room sq. ft., and various airflow and pressure metrics.

- (1) NEGATIVE TRANSFER AIR IS BEING TRANSFERRED FROM THE SPACE. POSITIVE IS AIR BEING TRANSFERRED TO THE SPACE.
(2) OUTDOOR AIR PRESSURIZATION CONTROL IS BY THE ITEMIZED EXHAUST FANS OR THE SPECIFIC RTU EXHAUST FAN FOR ECONOMIZER CONTROL.

REFERENCE DIMENSION



INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Professional engineer information for John J. Veisz, AIA, CSEA, including license number and contact details.

FVHHD architects planners logo and contact information for Fraytak Veisz Hopkins Dutrie P.C.

Project Name: ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name: HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location: 5801 3rd ST, MAYS LANDING, NJ 08330

Project Number: 4937B

Project Date: 02.15.2019
Checked By: TJB
Drawn By: HJB
Scale: AS NOTED

Drawing Name: HVAC SCHEDULES
SHANER E.S.

Revisions table with columns for No., Date, and Description.

Drawing Number: H601

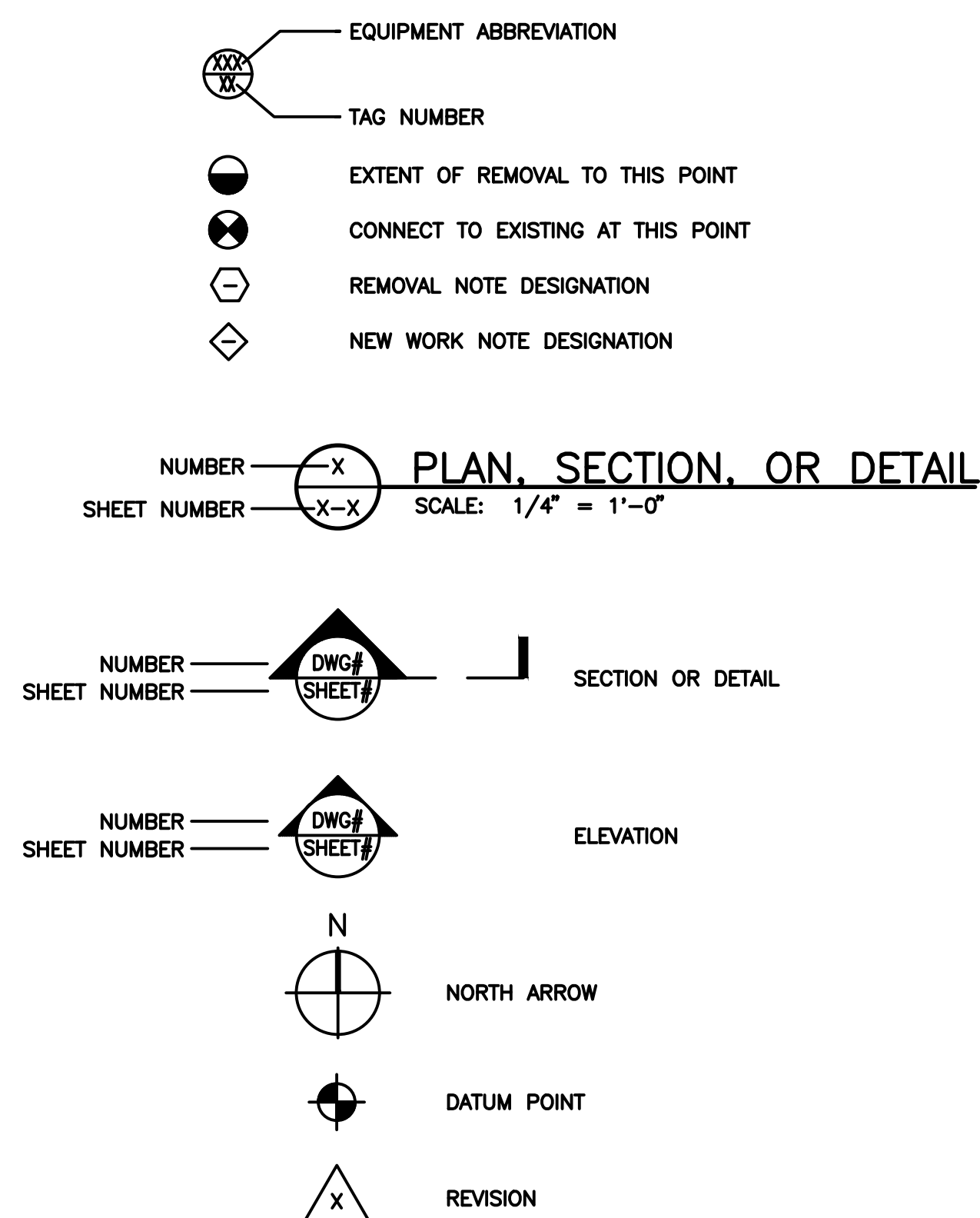
Gillan & Hartmann, Inc. logo and contact information.

02/15/2019 ISSUED FOR BID

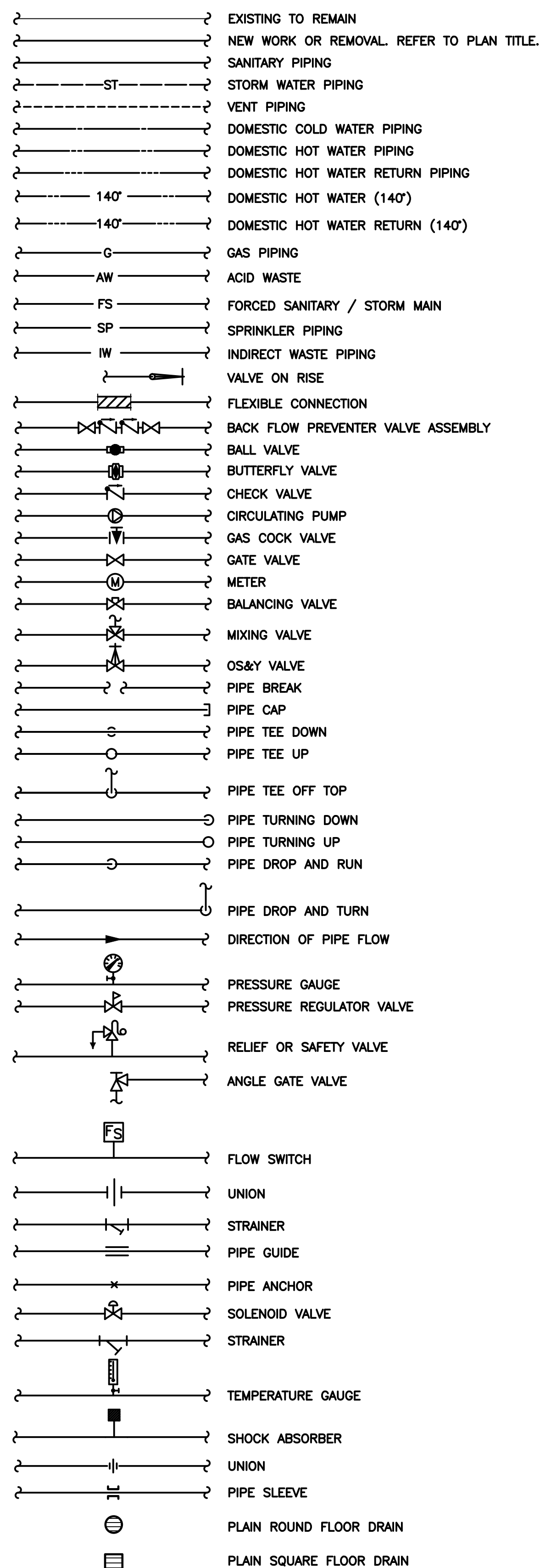
ENGINEER: MICHAEL S. GILLAN, PE. DATE: NO. 24GE04470000

Vertical text on the right edge: FILE PATH: E:\Projects\2018\201804_Hilal_Joseph_Shaner_et_al_renovations_drawing\HVAC_Schedules_Shaner.dwg... USER: SAGD: 20180215 11:33 AM... PLOTTED: 20180215 05:24 PM... PLOTTED BY: TM

SYMBOLS

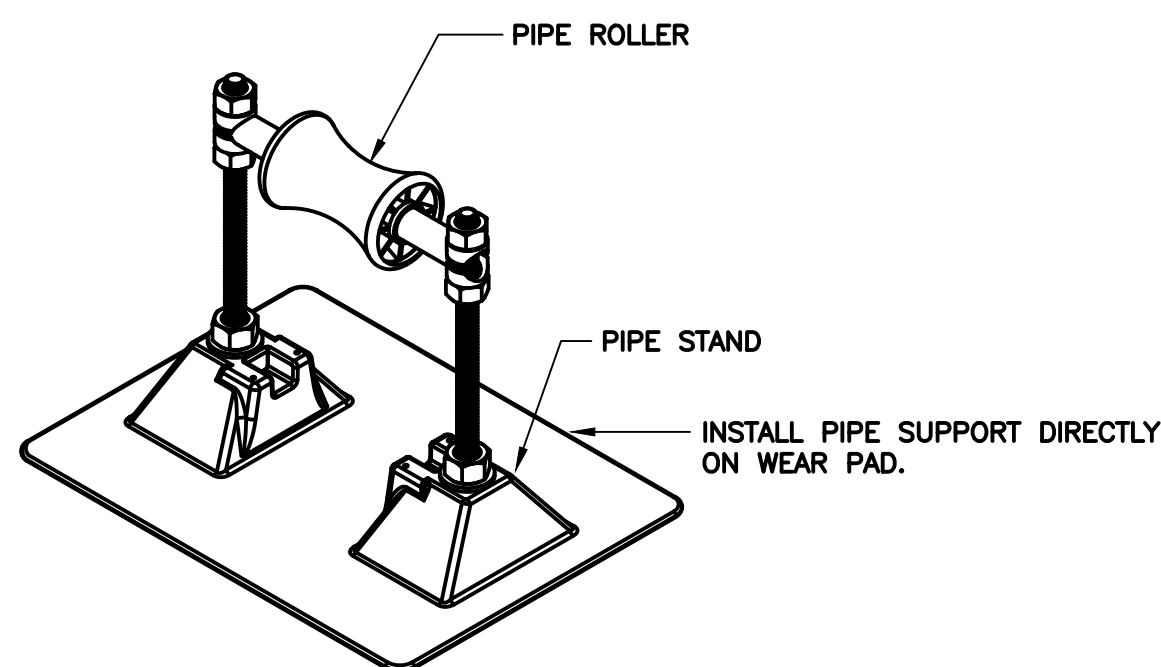


PLUMBING LEGEND



ABBREVIATIONS

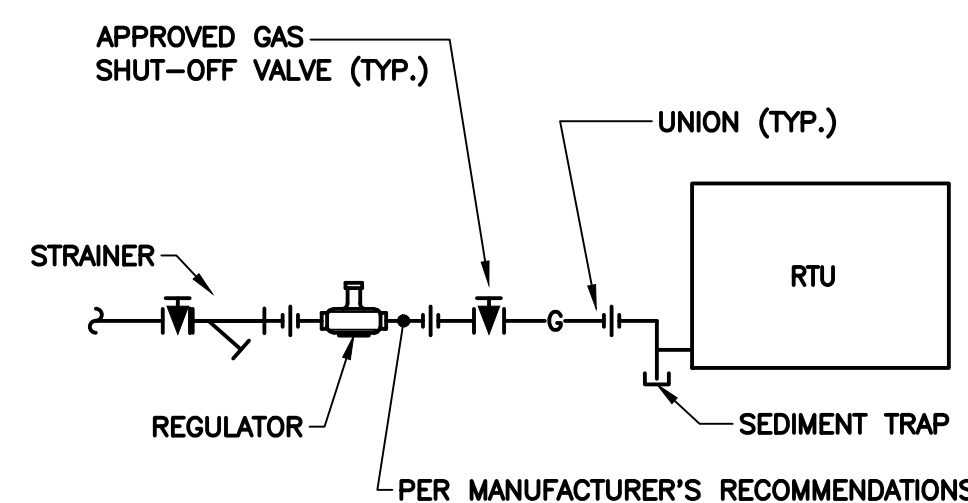
- ABV. ABOVE
- AD AREA DRAIN
- A.F.F. ABOVE FINISHED FLOOR
- BFP BACK FLOW PREVENTER
- BLW. BELOW
- C.D. CONDENSATE DRAIN
- CO CLEANOUT
- CONT. CONTINUATION
- CP CIRCULATING PUMP
- CW DOMESTIC COLD WATER
- DF DRINKING FOUNTAIN
- DFU DRAINAGE FIXTURE UNIT
- DN. DOWN
- DW DOMESTIC WATER
- (E) EXISTING
- E.C. ELECTRICAL CONTRACTOR
- ENT. ENTERING
- EW EYE WASH
- EWC ELECTRIC WATER COOLER
- EWB ELECTRIC WATER HEATER
- FCO FLOOR CLEANOUT
- FD FLOOR DRAIN
- FDC FIRE DEPARTMENT CONNECTION
- FP FIRE PROTECTION
- FPC FIRE PROTECTION CONTRACTOR
- FR. FROM
- FS FLOW SWITCH
- F.S.E.C. FOOD SERVICE EQUIPMENT CONTRACTOR
- G.C. GENERAL CONSTRUCTION CONTRACTOR
- GWH GAS WATER HEATER
- HB HOSE BIBB
- H.C. HVAC CONTRACTOR
- HW DOMESTIC HOT WATER
- HWH HOT WATER HEATER
- HWR DOMESTIC HOT WATER RETURN
- IN. INCH
- INV. INVERT
- I.W. INDIRECT WASTE
- LAV LAVATORY
- LVG. LEAVING
- LWT LEAVING WATER TEMPERATURE
- OS&Y OUTSIDE SCREW & YOKE
- MAX MAXIMUM
- MECH. MECHANICAL
- MIN. MINIMUM
- MOP MOP RECEPTOR
- MV MIXING VALVE
- N.C. NORMALLY CLOSED
- N.O. NORMALLY OPEN
- OD OVERFLOW DRAIN
- P.C. PLUMBING CONTRACTOR
- PDI PLUMBING AND DRAINAGE INSTITUTE
- PRESS. PRESSURE
- PRV PRESSURE REDUCING VALVE
- PSI POUNDS PER SQUARE INCH
- (R) REMOVE
- RD ROOF DRAIN
- REF. REFERENCE
- RWC RAINWATER CONDUCTOR
- S SANITARY
- SAN. SANITARY
- SF SQUARE FEET
- SH SHOWER
- SK SINK
- SS SERVICE SINK
- TEMP. TEMPERATURE
- TS TAMPER SWITCH
- TYP. TYPICAL
- UR URINAL
- V VENT
- VB VACUUM BREAKER
- VTR VENT THRU ROOF
- W WASTE
- WITH WITH
- WC WATER CLOSET
- WCO WALL CLEANOUT
- W.C. WATER COLUMN
- WH WALL HYDRANT



NOTE:
 1. SPACE AND SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS. SPACING IS NOT TO EXCEED 10 FEET ON CENTER.
 2. HEIGHT NOT EXCEED MANUFACTURER'S SPECIFICATIONS.
 3. INSTALL PIPE SUPPORT ON WEAR PAD ON ROOF SURFACE.

1 P001
 NO SCALE

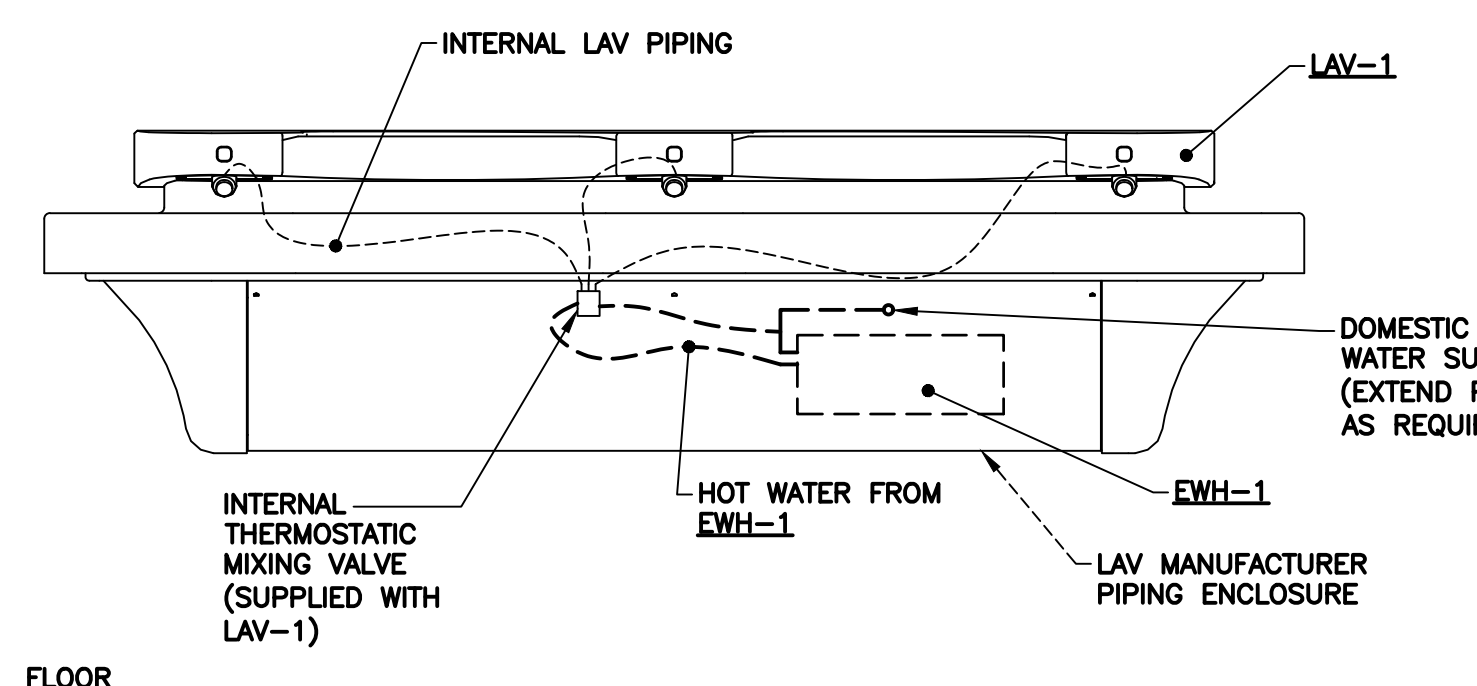
DETAIL - ROOFTOP PIPE SUPPORT



NOTE:
 1. REGULATOR AND PIPING DOWNSTREAM OF REGULATOR TO BE SIZED IN ACCORDANCE TO RTU MANUFACTURER'S RECOMMENDATION. COORDINATE REGULATOR LOCATION TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

2 P001
 NO SCALE

DETAIL - RTU GAS PIPING



3 P001
 NO SCALE

DETAIL - REPLACEMENT LAVATORY INSTANTANEOUS WATER HEATER INSTALLATION

PLUMBING GENERAL NOTES

- GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
- COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES, AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICT ARISES, MAKE ANY NECESSARY CHANGES TO ROUTING OF PIPING WITHOUT COMPROMISING THE INTEGRITY AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE ALL ASSOCIATED LIFE SAFETY DEVICES FOR ALL PIPING PENETRATIONS.
- PLUMBING PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
- COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, HVAC, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- EQUIPMENT INSULATION SHALL BE INSTALLED AS NOT TO CONCEAL THE EQUIPMENT NAME PLATE.
- PLUMBING REMOVAL WORK IN THE BUILDING SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR INCLUDING PLUMBING EQUIPMENT, SYSTEMS, APPARATUS, AND ACCESSORIES.
- THE DRAWINGS SHOW A GENERAL REPRESENTATION OF QUANTITIES AND LOCATIONS OF EXISTING PLUMBING COMPONENTS AND SYSTEMS, AND ARE NOT ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE REMOVAL OF THE PLUMBING BUILDING SYSTEMS TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS. UNLESS OTHERWISE NOTED, REMOVAL WORK IS TO INCLUDE, BUT NOT LIMITED TO REMOVAL OF EQUIPMENT, APPARATUS, SYSTEM ACCESSORIES, PIPING, INSULATION, DOMESTIC WATER HEATERS, VALVES, DROPS, RISERS, AUXILIARY SYSTEMS/PIPING/CONTROLS, VALVES, PIPING ACCESSORIES, CONTROLS, CONTROL WIRING/TUBING, CONDUITS, BASES, SUPPORTS, HANGERS AND SYSTEM APPURTENANCES.
- ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE, AND ALL OTHER FEDERAL, STATE, AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
- ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFI), INDUSTRIAL RISK INSURANCE UNDERWRITERS (IRI), FACTORY MUTUAL (FM), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRIC CODE (NEC), THE AMERICAN GAS ASSOCIATION (AGA), AND THE AMERICAN SOCIETY OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF ALL PUBLIC UTILITY COMPANIES SERVING THE PROJECT SITE.
- COORDINATE LOCATION OF ALL HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT WITH THE RESPECTIVE TRADE CONTRACTORS.
- ALL EQUIPMENT AND OR MATERIAL BEING REMOVED IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR AND WILL BE RETAINED, DISPOSED OF, AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER.
- IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH THE OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS.
- PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM ABOVE SLAB WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.
- ALL PIPING TO BE CONCEALED UNLESS OTHERWISE INDICATED.
- PROVIDE ALL NECESSARY HANGERS AND/OR SUPPORTS TO FACILITATE INSTALLATION OF ALL PIPING, EQUIPMENT, ETC.
- COORDINATE ALL PLUMBING VALVE ACCESS DOORS & PANELS WITH G.C.
- PERFORM SAW CUTTING, EXCAVATION, AND BACKFILL FOR ALL BELOW SLAB PIPING. FINAL FLOOR FINISH IS BY G.C. COORDINATE WORK WITH G.C.
- PERFORM HANGERS AND SUPPORTS PER THE SPECIFICATIONS FOR ALL PIPING AND PLUMBING EQUIPMENT TO FACILITATE INSTALLATION OF THE WORK.
- SCHEDULE AND OBTAIN APPROVAL FOR ALL SYSTEM SHUTDOWNS WITH THE OWNER PRIOR TO COMMENCING WITH REMOVAL AND NEW WORK.
- COORDINATE REQUIREMENTS FOR LOSS OF PHASE PROTECTION ON ALL THREE PHASE MOTORS SERVING EQUIPMENT ON THIS CONTRACT.
- PROVIDE FLEXIBLE CONNECTORS FOR ALL PIPING AT BUILDING EXPANSION JOINTS.
- INSTALL ALL EQUIPMENT TO MAINTAIN ADEQUATE CLEARANCES PER MANUFACTURER'S REQUIREMENTS. PROVIDE OFFSETS AS NECESSARY TO FACILITATE.

PLUMBING FIXTURE SCHEDULE

REF. NO.	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	FAUCET AND FLUSH VALVE	TRAP AND DRAIN	SUPPLIES	REMARKS/ACCESSORIES
WC-1	WATER CLOSET - WALL MOUNTED - B.F.	AMERICAN STANDARD "APWALL MILLENNIUM FLOWWISE" #3351.101	SLOAN 1.6 GPF - G2 OPTIMA PLUS #8111	-	-	BATTERY POWERED FLUSH VALVE. PROVIDE OPEN FRONT TOILET SEAT. MODIFY EXISTING WALL CARRIER AS REQUIRED. REFER TO ARCHITECTURAL DOCUMENTS FOR MOUNTING HEIGHTS.
UR-1	URINAL - WALL MOUNTED - B.F.	AMERICAN STANDARD #6590.001 "WASHBROOK"	SLOAN 0.5 GPF - G2 OPTIMA PLUS #8186-0.5	-	-	BATTERY POWERED FLUSH VALVE. MODIFY EXISTING WALL CARRIER AS REQUIRED. REFER ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING HEIGHT.
LAV-1	LAVATORY - WALL MOUNT - 3 STATION	BRADLEY "EXPRESS" MG-3	INTEGRAL	P-TRAP TO SUIT	3/4" ANGLE SUPPLIES TO SUIT	3-SPRAYHEADS PER ASSEMBLY. PROVIDE BATTERY POWERED, INTEGRAL SPRAYHEAD W/ INFRARED CONTROL, LIQUID SOAP DISPENSER, & WALL CARRIER TO SUIT. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING HEIGHT, COLOR SELECTIONS, ETC. SET THERMOSTATIC MIXING VALVE TO A MAXIMUM DISCHARGE TEMPERATURE OF 110°.
EW-1	ELECTRIC IN-WALL BOTTLE FILLING STATION - B.F.	ELKAY LZWSGRNBK	-	P-TRAP TO SUIT	3/4" SUPPLY	PROVIDE WALL CARRIER TO SUIT. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING HEIGHT.

*B.F. = BARRIER FREE

PLUMBING FIXTURE CONNECTION SCHEDULE

REF. NO.	DESCRIPTION	DOMESTIC WATER			SANITARY			REMARKS
		TOTAL WSFU	CW SUPPLY	HW SUPPLY	DFU	DRAIN SIZE	VENT SIZE	
WC-1	WATER CLOSET - WALL MOUNTED - B.F.	8	1"	-	6	4"	2"	SENSOR ACTIVATED FLUSH VALVE
UR-1	URINAL - WALL MOUNTED - B.F.	5	3/4"	-	5	2"	1 1/2"	SENSOR ACTIVATED FLUSH VALVE
LAV-1	LAVATORY - WALL MOUNT - 3 STATION	3	1/2"	1/2"	3	1 1/2"	1 1/2"	3 SPRAYHEADS PER FIXTURE
EW-1	ELECTRIC IN-WALL BOTTLE FILLING STATION - B.F.	0.75	1/2"	-	.5	1 1/2"	1 1/2"	-

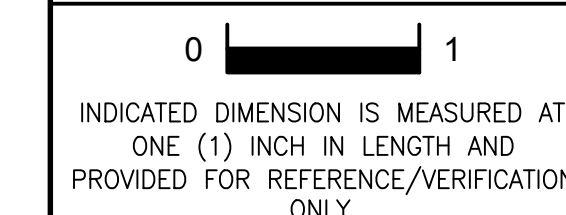
*B.F. = BARRIER FREE

ELECTRIC WATER HEATER SCHEDULE

REF. NO.	LOCATION	INPUT (KW)	WATER TEMP (°F)		ELECTRICAL DATA(1)			MODEL	REMARKS/ACCESSORIES
			INLET	OUTLET	VOLTS	PHASE	HZ		
EW-1	POINT OF USE	10	50	105	277	1	60	MT010277T	(2) (3)

- COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
- PROVIDE W/ MANUFACTURER'S WALL MOUNTING BRACKETS.

REFERENCE DIMENSION



Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 215-208-8910 609-347-1593 302-654-9959
 www.gillan-hartmann.com ghm@gillan-hartmann.com
 G&H Project No. 2018-205

02/15/2019
 ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

FVHD architects planners
Fraytak Velzok Hopkins Dutrie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 140 Williker Ave - Mont Clare - Pennsylvania 19453
 F V H D P C . C O M

Project Name
 ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
 HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
 1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
 4937C
 Project Date
 02.15.2019
 Checked By
 TJB
 Drawn By
 TMH
 Scale
 AS NOTED

Drawing Name
 PLUMBING GENERAL NOTES, LEGEND, ABBREVIATIONS, & DETAILS

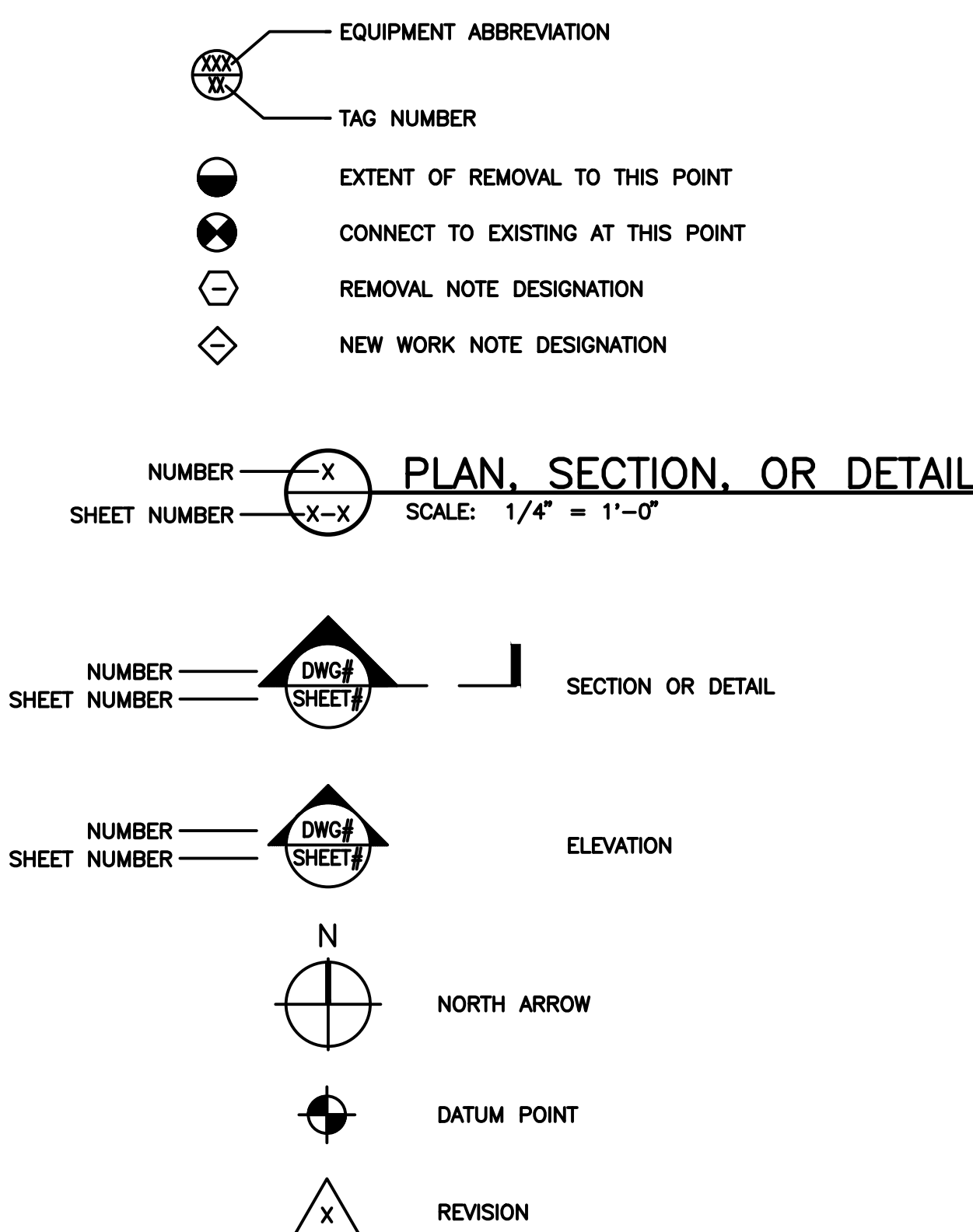
DAVIES M.S.

No.	Date	Description

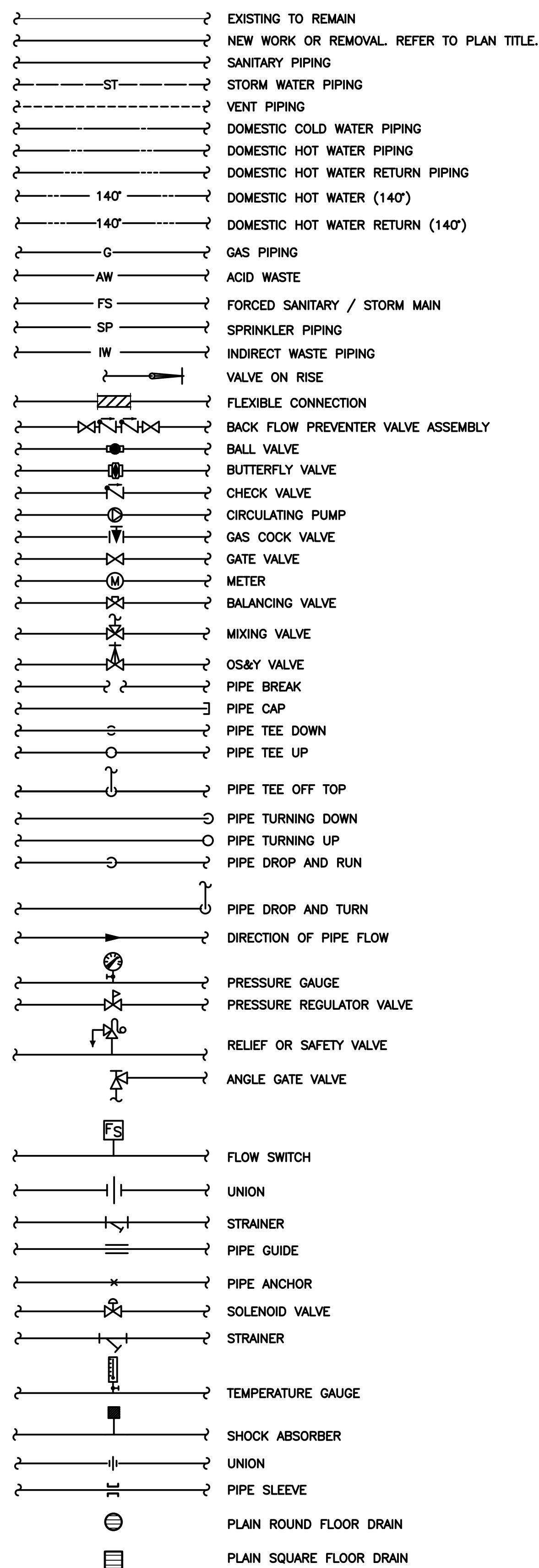
Drawing Number
P001

FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_MS_Renovations_Drawings\Plumbing_Legend and Gen Note_Davies.dwg
 USER: SAGD 2019/02/15 10:33 AM PLOTTED: 2019/02/15 04:42 PM PLOTTED BY: TML

SYMBOLS

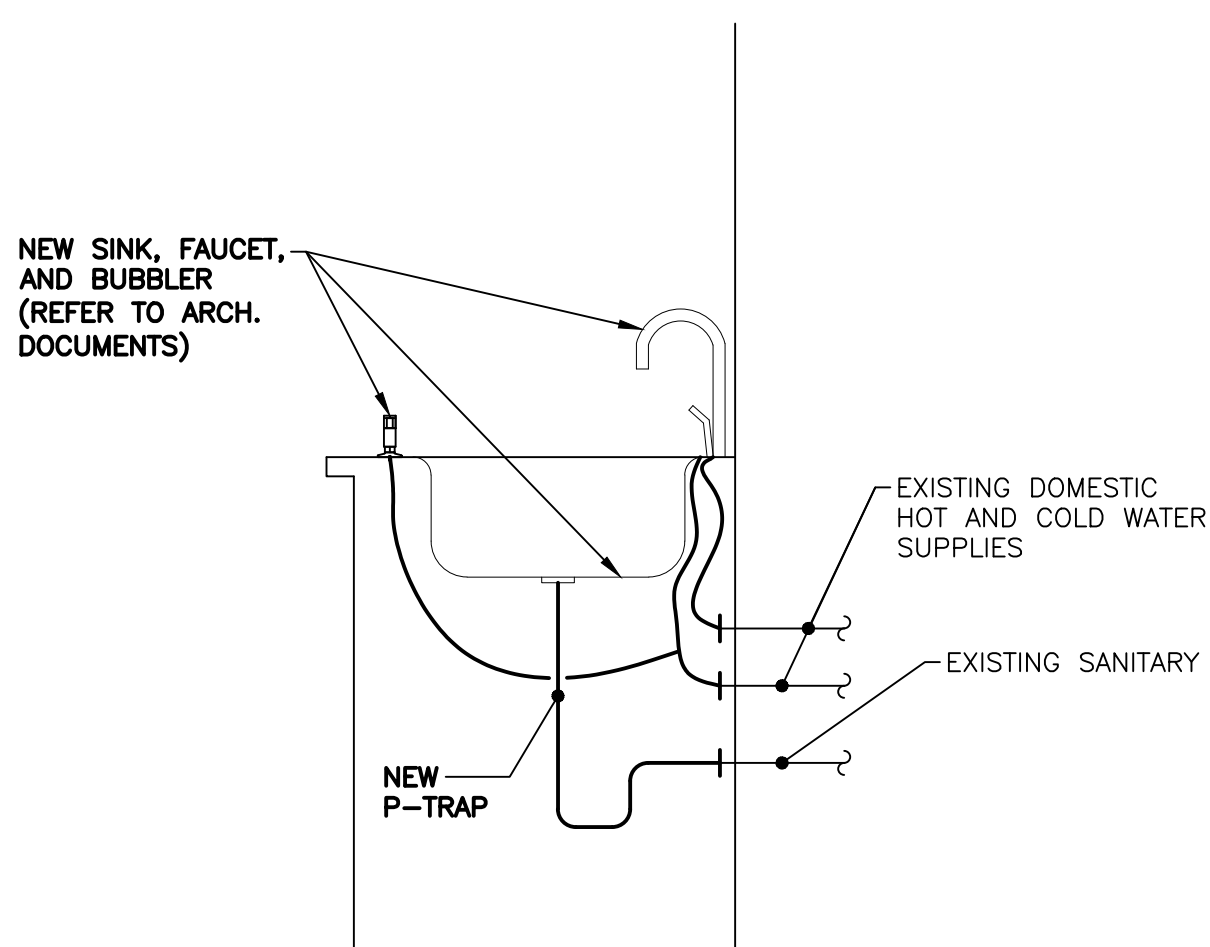


PLUMBING LEGEND

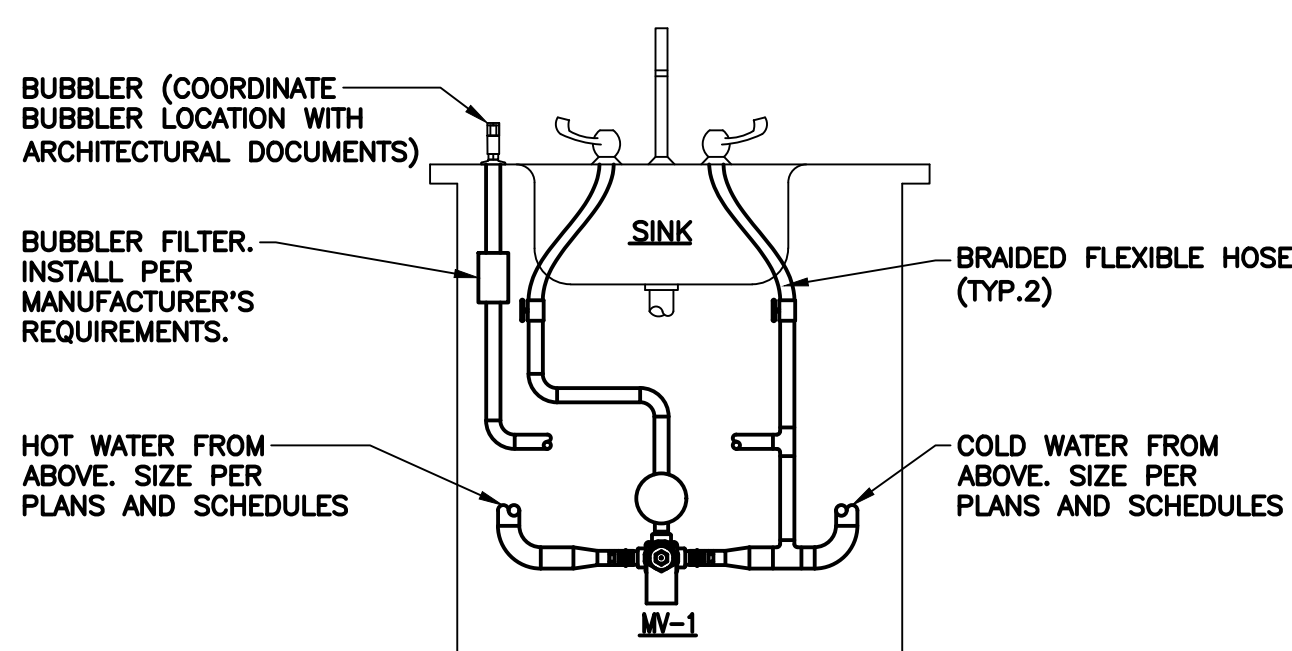


ABBREVIATIONS

ABV.	ABOVE
AD	AREA DRAIN
A.F.F.	ABOVE FINISHED FLOOR
BFP	BACK FLOW PREVENTER
BLW.	BELOW
C.D.	CONDENSATE DRAIN
CO	CLEANOUT
CONT.	CONTINUATION
CP	CIRCULATING PUMP
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DN.	DOWN
DW	DOMESTIC WATER
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
ENT.	ENTERING
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDG	FIRE DEPARTMENT CONNECTION
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FR.	FROM
FS	FLOW SWITCH
F.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
G.C.	GENERAL CONSTRUCTION CONTRACTOR
GWH	GAS WATER HEATER
HB	HOSE BIBB
H.C.	HVAC CONTRACTOR
HW	DOMESTIC HOT WATER
HWH	HOT WATER HEATER
HWR	DOMESTIC HOT WATER RETURN
IN.	INCH
INV.	INVERT
I.W.	INDIRECT WASTE
LAV	LAVATORY
L.V.G.	LEAVING
LWT	LEAVING WATER TEMPERATURE
OS&Y	OUTSIDE SCREW & YOKE
MAX	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MR	MOP RECEPTOR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OD	OVERFLOW DRAIN
P.C.	PLUMBING CONTRACTOR
PDI	PLUMBING AND DRAINAGE INSTITUTE
PRESS.	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
(R)	REMOVE
RD	ROOF DRAIN
REF.	REFERENCE
RWC	RAINWATER CONDUCTOR
S	SANITARY
SAN.	SANITARY
SF	SQUARE FEET
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TEMP.	TEMPERATURE
TS	TAMPER SWITCH
TYP.	TYPICAL
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
W.C.	WATER COLUMN
WH	WALL HYDRANT



NOTE: MIXING VALVE NOT SHOWN FOR CLARITY PURPOSES
DETAIL - TYPICAL CLASSROOM SINK REPLACEMENT
 1 P001 NO SCALE



NOTES:
 1. SET MIXING VALVE OUTLET TO MAXIMUM 110 DEG F.
 2. COORDINATE VALVE AND PIPING WITH FIELD CONDITIONS.

DETAIL - UNDER COUNTER MIXING VALVE INSTALLATION
 2 P001 NO SCALE

PLUMBING GENERAL NOTES

- GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
- COORDINATE AND FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES, AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICT ARISES, MAKE ANY NECESSARY CHANGES TO ROUTING OF PIPING WITHOUT COMPROMISING THE INTEGRITY AND PERFORMANCE OF THE SYSTEM, AND AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE ALL ASSOCIATED LIFE SAFETY DEVICES FOR ALL PIPING PENETRATIONS.
- PLUMBING PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
- COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, HVAC, ETC. SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
- EQUIPMENT INSULATION SHALL BE INSTALLED AS NOT TO CONCEAL THE EQUIPMENT NAME PLATE.
- PLUMBING REMOVAL WORK IN THE BUILDING SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR INCLUDING PLUMBING EQUIPMENT, SYSTEMS, APPARATUS, AND ACCESSORIES.
- THE DRAWINGS SHOW A GENERAL REPRESENTATION OF QUANTITIES AND LOCATIONS OF EXISTING PLUMBING COMPONENTS AND SYSTEMS, AND ARE NOT ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE REMOVAL OF THE PLUMBING BUILDING SYSTEMS TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. REMOVAL WORK IS TO INCLUDE, BUT NOT LIMITED TO REMOVAL OF EQUIPMENT, APPARATUS, SYSTEM ACCESSORIES, PIPING, INSULATION, DOMESTIC WATER HEATERS, VALVES, DROPS, RISERS, AUXILIARY SYSTEMS/PIPING/CONTROLS, VALVES, PIPING ACCESSORIES, CONTROLS, CONTROL WIRING/TUBING, CONDUITS, BASES, SUPPORTS, HANGERS AND SYSTEM APPURTENANCES.
- ENSURE ALL WORK IS IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE APPLICABLE CONSTRUCTION CODE, AND ALL OTHER FEDERAL, STATE, AND LOCAL AGENCY REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT OF ANY DISCREPANCIES BETWEEN AGENCY REQUIREMENTS, OBSERVE THE MORE STRINGENT OF REQUIREMENTS.
- ALL WORK SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS (NBFI), INDUSTRIAL RISK INSURANCE UNDERWRITERS (IRI), FACTORY MUTUAL (FM), OR THE APPLICABLE RATING BUREAU, THE NATIONAL ELECTRIC CODE (NEC), THE AMERICAN GAS ASSOCIATION (AGA), AND THE AMERICAN SOCIETY OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND THE REQUIREMENTS OF ALL PUBLIC UTILITY COMPANIES SERVING THE PROJECT SITE.
- COORDINATE LOCATION OF ALL HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT WITH THE RESPECTIVE TRADE CONTRACTORS.
- ALL EQUIPMENT AND OR MATERIAL BEING REMOVED IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR AND WILL BE RETAINED, DISPOSED OF, AND REMOVED FROM THE SITE AT THE DIRECTION OF THE OWNER.
- IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEMS MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH THE OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING SYSTEMS.
- PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM ABOVE SLAB WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.
- ALL PIPING TO BE CONCEALED UNLESS OTHERWISE INDICATED.
- PROVIDE ALL NECESSARY HANGERS AND/OR SUPPORTS TO FACILITATE INSTALLATION OF ALL PIPING, EQUIPMENT, ETC.
- COORDINATE ALL PLUMBING VALVE ACCESS DOORS & PANELS WITH G.C.
- PERFORM SAW CUTTING, EXCAVATION, AND BACKFILL FOR ALL BELOW SLAB PIPING. FINAL FLOOR FINISH IS BY G.C. COORDINATE WORK WITH G.C.
- PROVIDE HANGERS AND SUPPORTS PER THE SPECIFICATIONS FOR ALL PIPING AND PLUMBING EQUIPMENT TO FACILITATE INSTALLATION OF THE WORK.
- SCHEDULE AND OBTAIN APPROVAL FOR ALL SYSTEM SHUTDOWNS WITH THE OWNER PRIOR TO COMMENCING WITH REMOVAL AND NEW WORK.
- COORDINATE REQUIREMENTS FOR LOSS OF PHASE PROTECTION ON ALL THREE PHASE MOTORS SERVING EQUIPMENT ON THIS CONTRACT.
- PROVIDE FLEXIBLE CONNECTORS FOR ALL PIPING AT BUILDING EXPANSION JOINTS.
- INSTALL ALL EQUIPMENT TO MAINTAIN ADEQUATE CLEARANCES PER MANUFACTURER'S REQUIREMENTS. PROVIDE OFFSETS AS NECESSARY TO FACILITATE.

PLUMBING FIXTURE SCHEDULE

REF. NO.	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	FAUCET AND FLUSH VALVE	TRAP AND DRAIN	SUPPLIES	REMARKS/ACCESSORIES
SK-1	SINK - SINGLE BOWL - TOP MOUNT WITH BUBBLER	REFER TO ARCHITECTURAL DOCUMENTS	REFER TO ARCHITECTURAL DOCUMENTS	P-TRAP TO SUIT	1/2" ANGLE SUPPLIES TO SUIT	PROVIDE WITH MV-1. SINK BASIN, FAUCET, BUBBLER, AND FILTER FURNISHED BY GENERAL CONSTRUCTION CONTRACTOR. PLUMBING CONTRACTOR TO INSTALL FAUCET, BUBBLER, AND FILTER.

*B.F. = BARRIER FREE

PLUMBING FIXTURE CONNECTION SCHEDULE

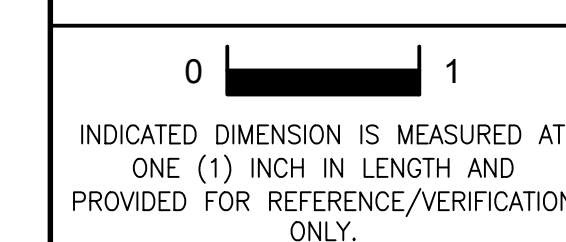
REF. NO.	DESCRIPTION	DOMESTIC WATER				SANITARY		REMARKS
		TOTAL WSFU	CW SUPPLY	HW SUPPLY	DFU	DRAIN SIZE	VENT SIZE	
SK-1	SINK - SINGLE BOWL - TOP MOUNT WITH BUBBLER	1.5	1/2"	1/2"	2	1 1/2"	1 1/2"	

*B.F. = BARRIER FREE

MIXING VALVE SCHEDULE

REF. NO.	LOCATION	MIN. GPM	DESIGN GPM	MAX. PWD/DESIGN FLOW (PSI)	CW INLET TEMP	HW INLET TEMP	OUTLET TEMP	INLET SIZE	OUTLET SIZE	MODEL	REMARKS
MV-1	POINT OF USE	0.25	2.0	5	45°F	120°F	110°F (MAX)	1/2"	1/2"	270-LF	POINT OF USE MIXING VALVE. SET MAXIMUM MIXING WATER TEMPERATURE TO 110°F. MIXING VALVE SHALL BE CERTIFIED IN ACCORDANCE WITH ASSE 1070. COORDINATE UNDERCOUNTER LOCATION WITH FIELD CONDITIONS.

REFERENCE DIMENSION



Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-338-8910 609-347-1593 302-654-9959
 www.gillan-hartmann.com | ghillan@gillan-hartmann.com
 Cert. of Auth. #0427932400 G&H Project No. 2018-204

02/15/2019
 ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
 AIA 214266601 PA 80620789
 WILLIAM D. HOPKINS III, AIA, LEED AP
 AIA 214266601 PA 80622264
 GEORGE R. DUTHIE, JR., AIA, PP
 AIA 214266601 PA 80622264

EFVHD architects
 planners
Fraytak Veisz Hopkins Duthie PC

Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 140 Wiltshire Ave - Mont Clair - Pennsylvania 19435
 F V H D P C . C O M

Project Name
 ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
 HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
 5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
 4937B

Project Date
 02.15.2019

Checked By
 TJB

Drawn By
 TMH

Scale
 AS NOTED

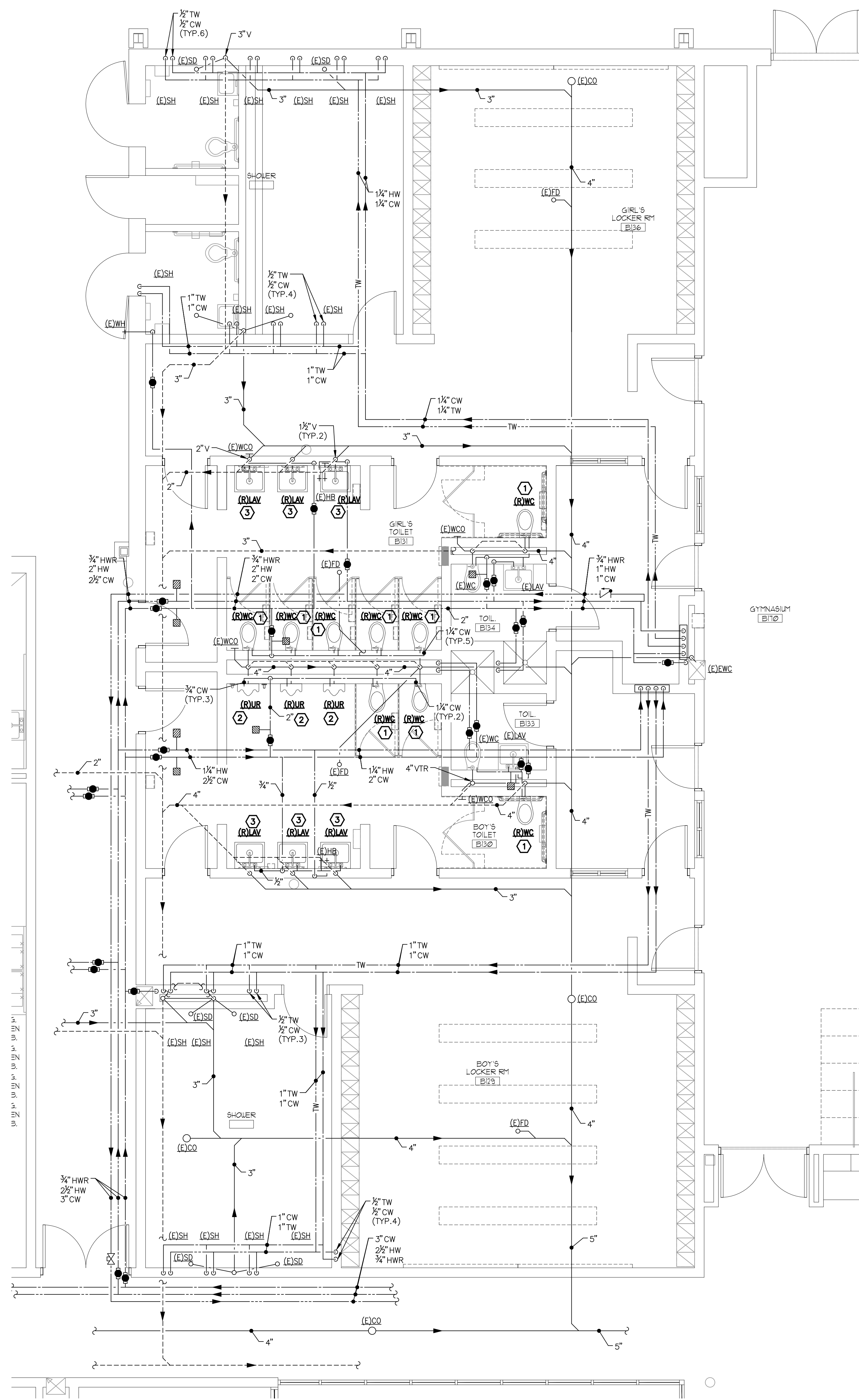
Drawing Name
 PLUMBING GENERAL NOTES, LEGEND, ABBREVIATIONS, SCHEDULES, & DETAILS

SHANER E.S.

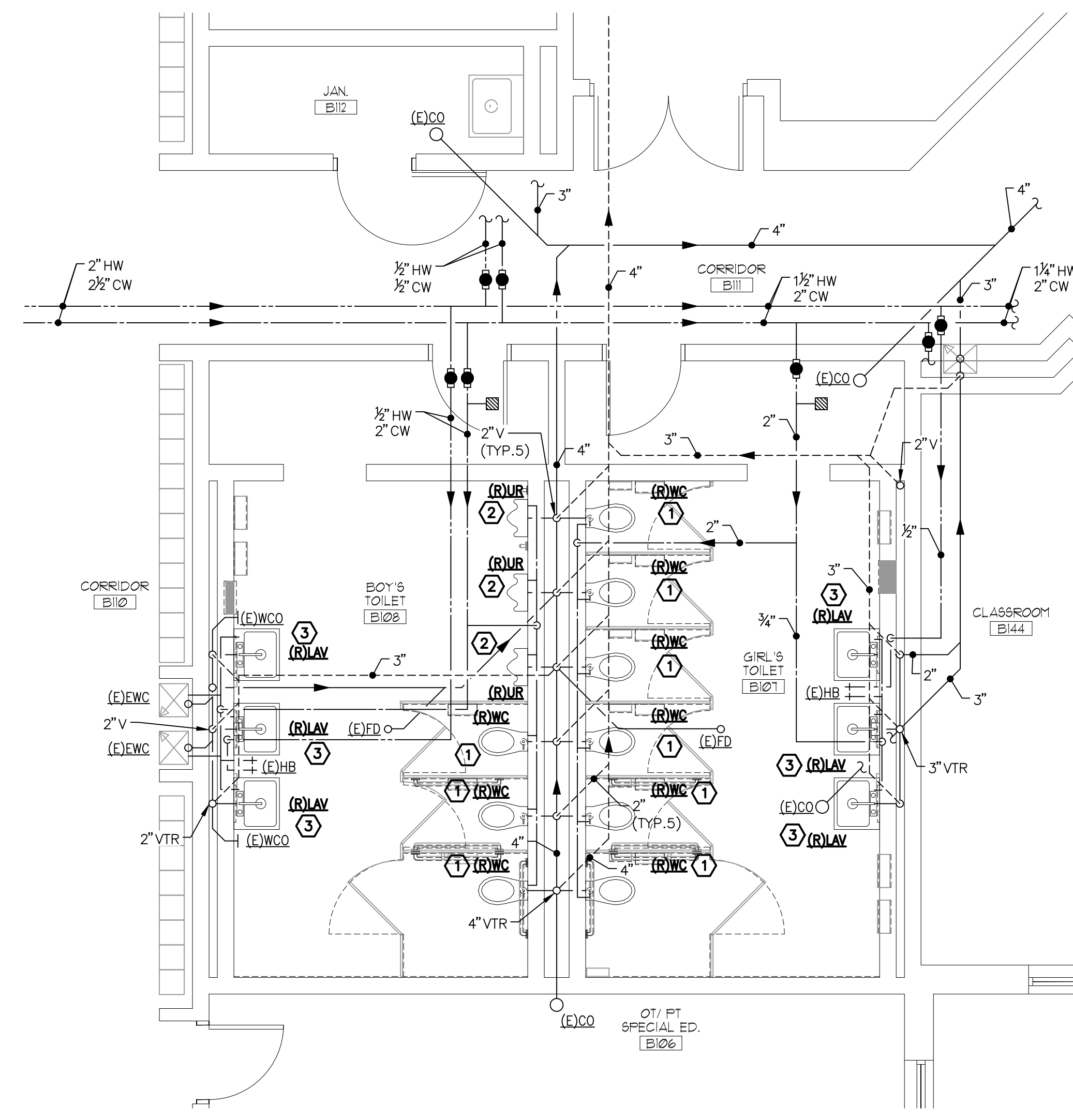
No.	Date	Description

Drawing Number
P001

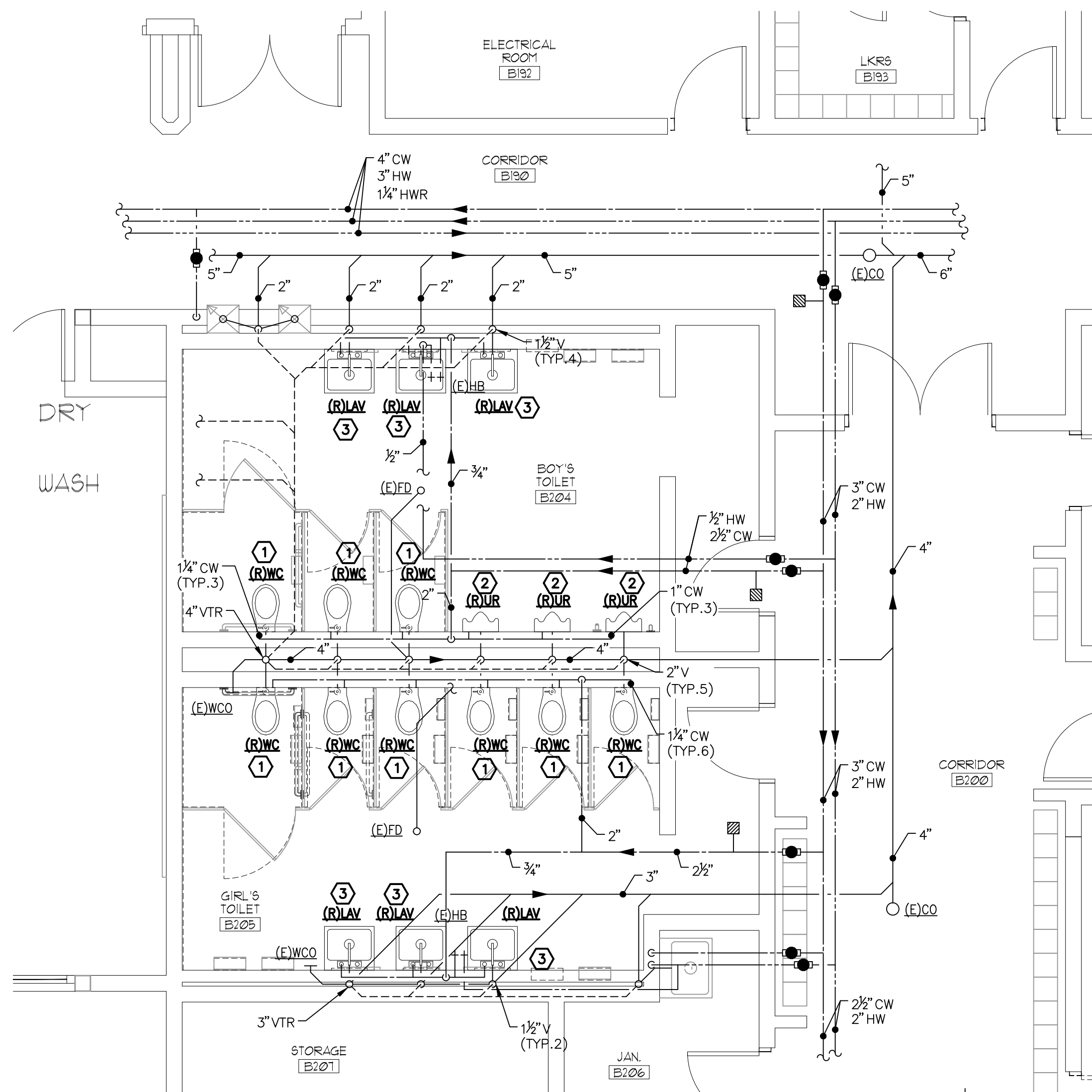
FILE PATH: E:\Projects\2018\201804_Hamilton_Joseph_Shaner_Elementary_School_Plumbing_Legend_and_Gen_Notes_Shaner.dwg
 USER: SMD - 2019/02/15 10:34 AM PLOTTED BY: TML



1
P101
PARTIAL FIRST FLOOR PLAN
PLUMBING REMOVAL - LOCKER ROOMS
SCALE: 1/4" = 1'-0"



2
P101
PARTIAL FIRST FLOOR PLAN
PLUMBING REMOVAL - TOILETS B107/B108
SCALE: 1/4" = 1'-0"

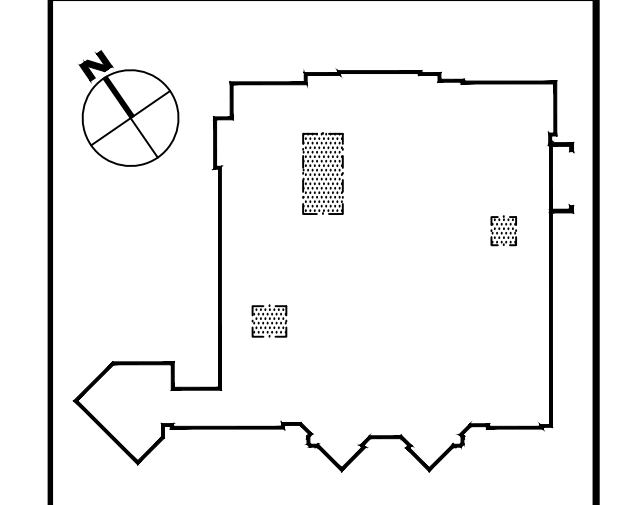


3
P101
PARTIAL FIRST FLOOR PLAN
PLUMBING REMOVAL - TOILETS B204/B205
SCALE: 1/4" = 1'-0"

REMOVAL NOTES:

- ① DISCONNECT AND REMOVE EXISTING WATER CLOSET AND FLUSH VALVE AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WALL MOUNTED WATER CLOSET. REMOVE SANITARY & VENT PIPE AND DOMESTIC WATER PIPING AS REQUIRED. REFER TO NEW WORK PLANS.
- ② DISCONNECT AND REMOVE EXISTING WALL MOUNTED URINAL, FLUSH VALVE, ASSOCIATED PIPING, AND SUPPORTS AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WALL MOUNTED URINAL. TURN OVER EXISTING FLUSH VALVE TO THE OWNER. REMOVE SANITARY & VENT PIPE AND DOMESTIC WATER PIPING AS REQUIRED. REFER TO NEW WORK PLANS.
- ③ DISCONNECT AND REMOVE EXISTING WALL MOUNTED LAVATORY, ASSOCIATED PIPING, SUPPORTS, FAUCET, TRAP, AND STOPS AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WALL MOUNTED LAVATORY. TURN OVER EXISTING FAUCETS TO THE OWNER. REMOVE SANITARY & VENT PIPE AND DOMESTIC WATER PIPING AS REQUIRED. REFER TO NEW WORK PLANS.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1583 302-654-9959
www.gillan-hartmann.com gillan@ghillan-hartmann.com
G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

GFVHHD architects
planners
Frattak Veisak Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 40 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C . C O M

JOHN J. VEISAK, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTRIE, JR., AIA, PP

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
TMH

Scale
AS NOTED

Drawing Name
PARTIAL FIRST FLOOR PLANS: PLUMBING REMOVALS

Revisions
DAVIES M.S.

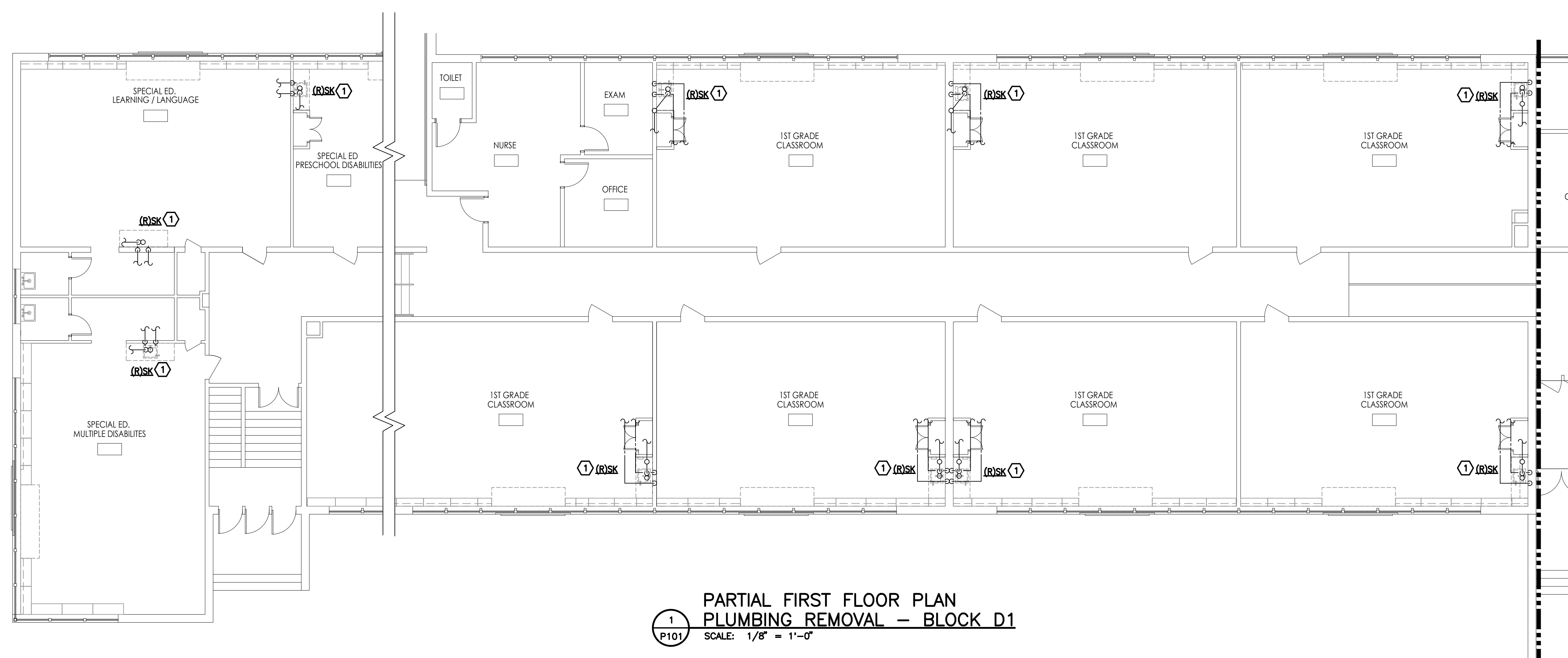
No.	Date	Description

Drawing Number
P101

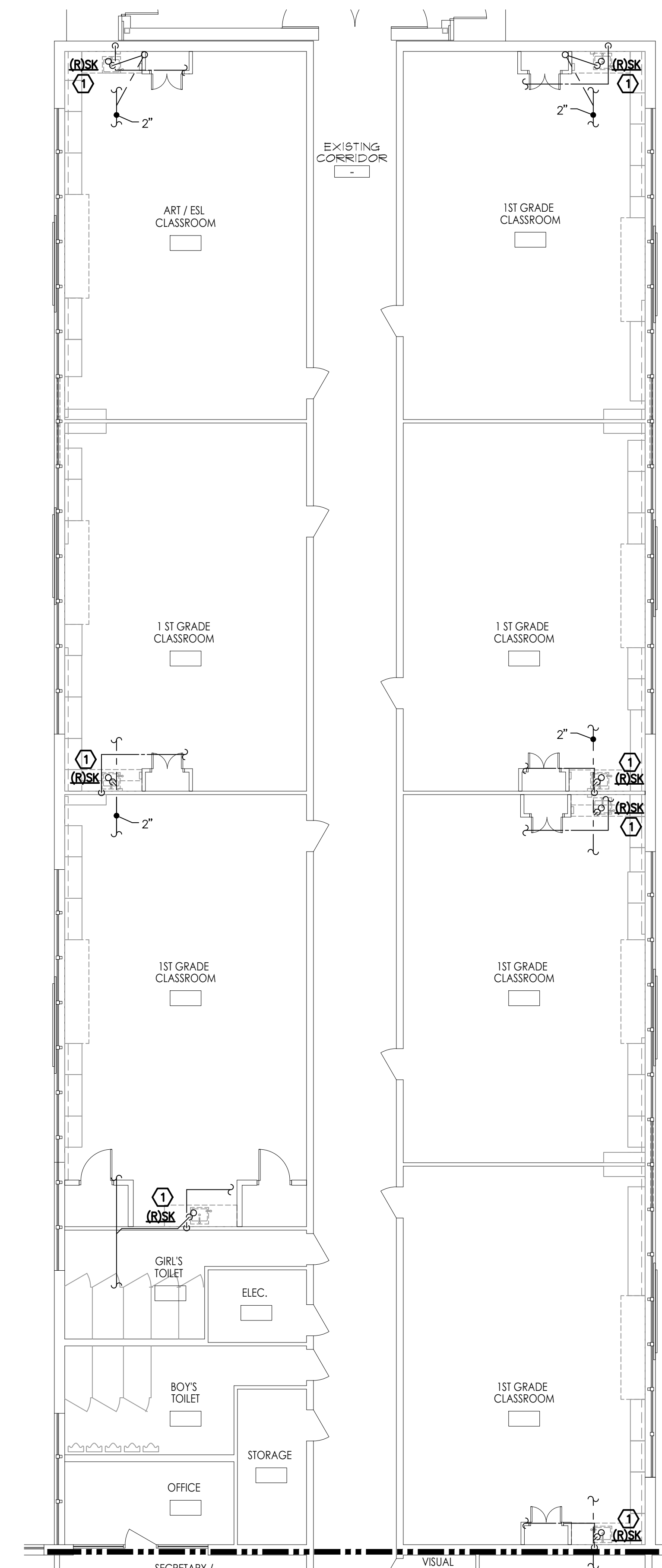
FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_Middle_School_Renovations_Plumbing_Removals_Davies.dwg
 USER: GSD: 2019/02/15 10:33 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TMH

REMOVAL NOTES:

- ① DISCONNECT AND REMOVE THE EXISTING SINK, FAUCET, BUBBLER, ASSOCIATED SUPPLIES, STOPS, AND TRAP. REMOVE ALL ASSOCIATED PIPING, SUPPORTS, AND ADDITIONAL APPURTENANCES. REFER TO THE NEW WORK PLANS AND TYPICAL CLASSROOM SINK REPLACEMENT DETAIL FOR ADDITIONAL INFORMATION FOR THE SINK REPLACEMENT. COORDINATE REMOVALS WITH THE G.C.

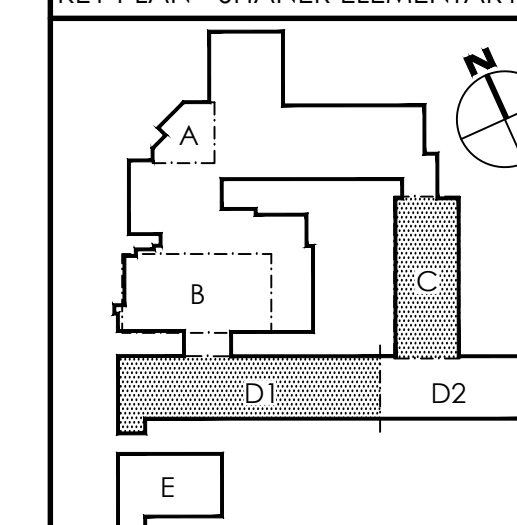


**PARTIAL FIRST FLOOR PLAN
PLUMBING REMOVAL – BLOCK D1**
SCALE: 1/8" = 1'-0"



**PARTIAL FIRST FLOOR PLAN
PLUMBING REMOVAL – BLOCK C**
SCALE: 1/8" = 1'-0"

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com ghm@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

FVHHD architects planners
Fraytak Veisz Hopkins Dutchie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
F V H D P C - C O M

JOHN J. VEISZ, AIA, CSBA
NO. 2142666001 PA 06020198
WILLIAM D. HOPKINS III, AIA, LEED AP
NO. 2142666001 PA 06020204
GEORGE R. DUTCHIE, JR., AIA, PP
NO. 2142666001 PA 06020200

Project Name
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number
4937B

Project Date
02.15.2019

Checked By
TJB

Drawn By
TMH

Scale
AS NOTED

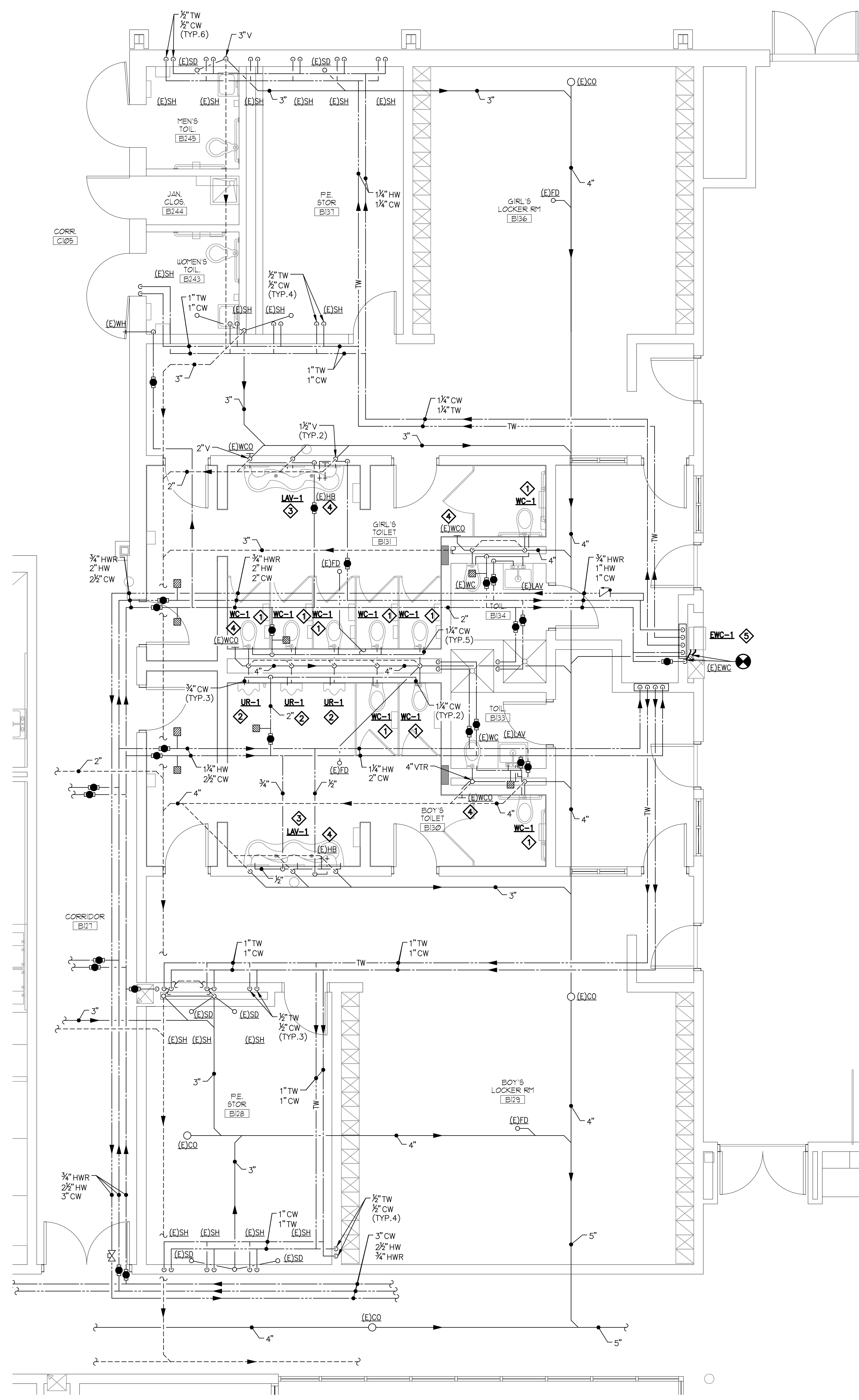
Drawing Name
PARTIAL FLOOR PLAN: PLUMBING REMOVALS - BLOCK C & D1

SHANER E.S.

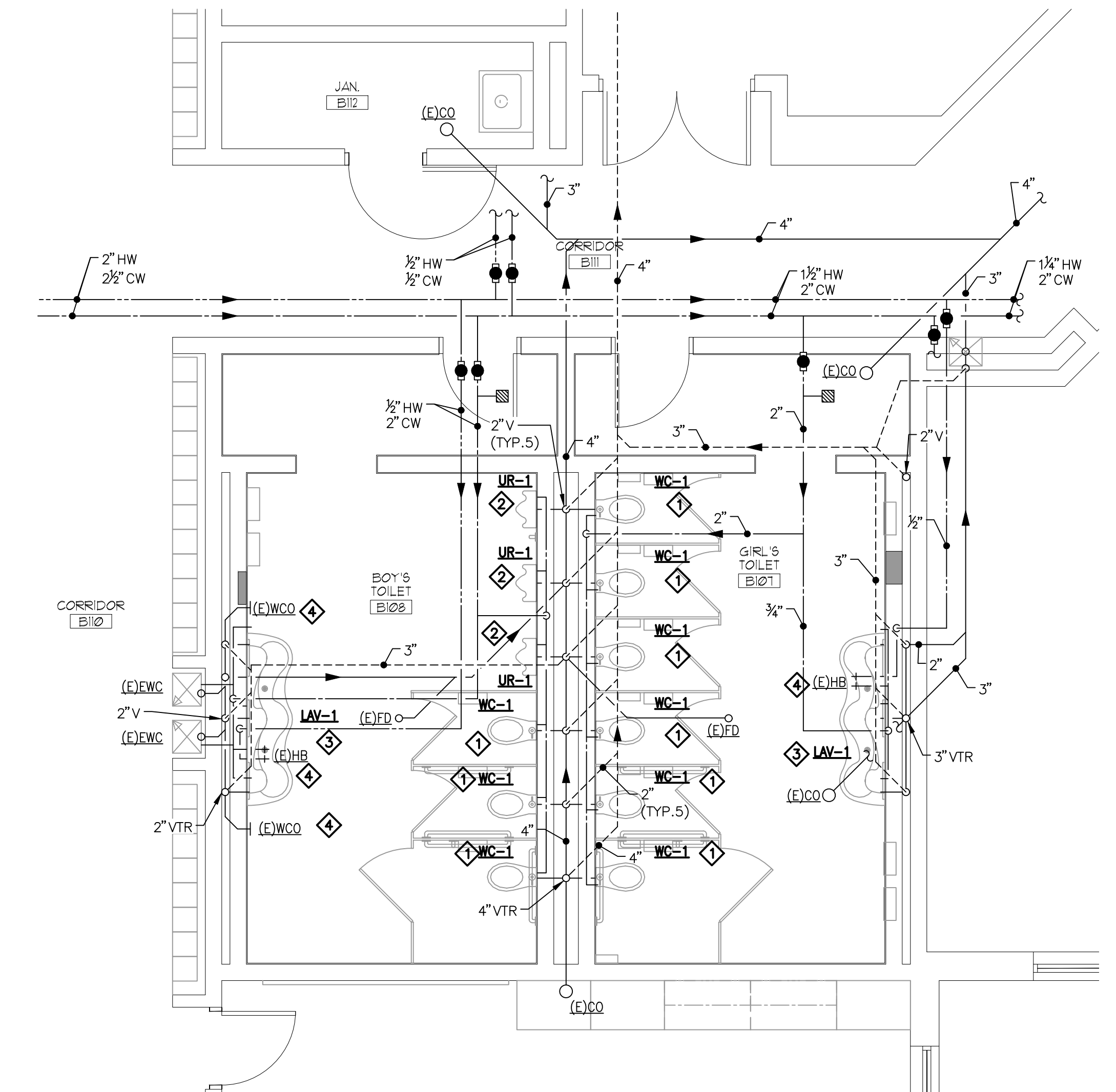
Revisions		
No.	Date	Description

Drawing Number
P101

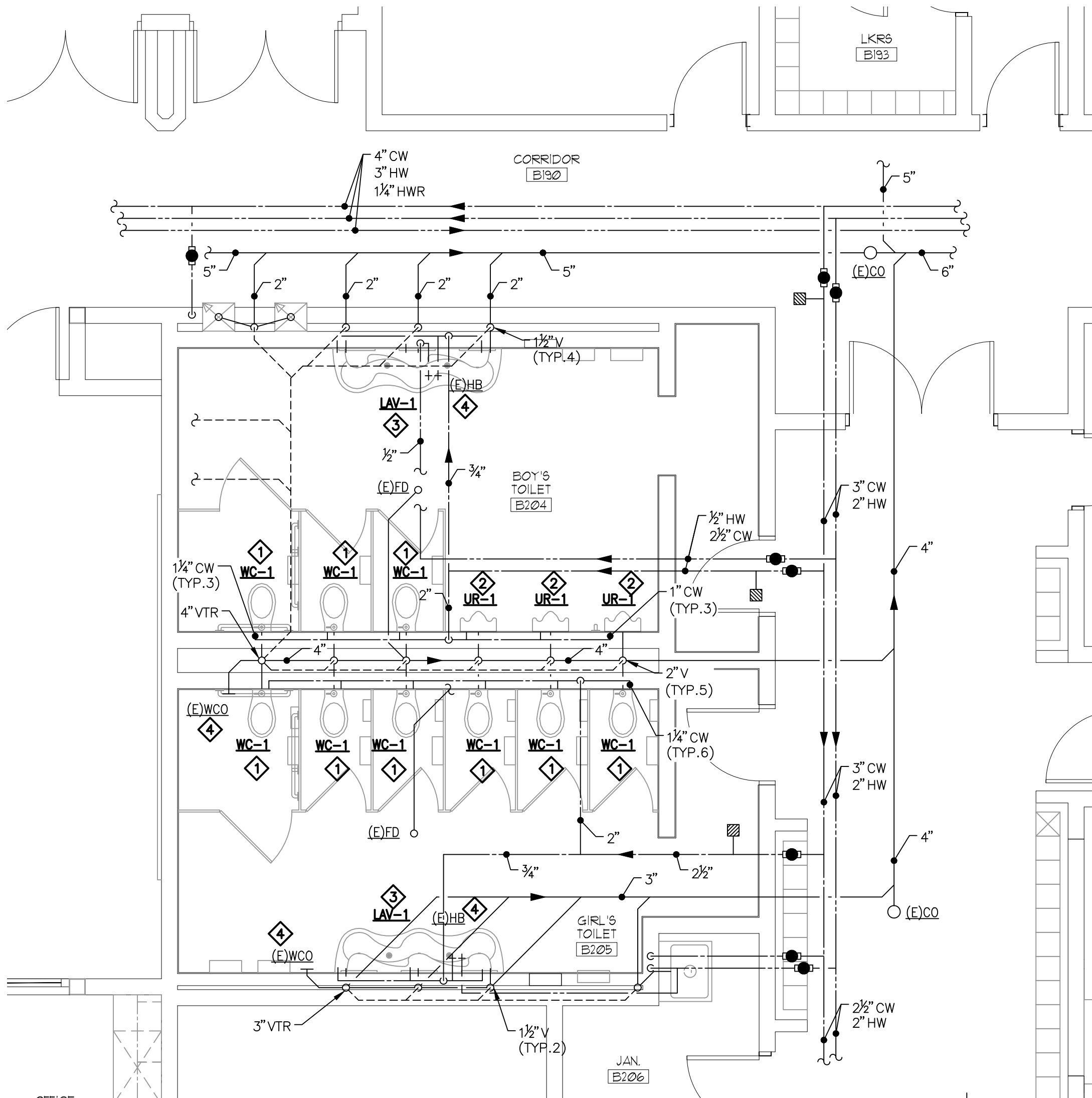
FILE PATH: E:\Projects\2018\201804_HTSO_Joseph_Shaner_ES_Alterations_Drawings\Plumbing_Removals_Shaner.dwg
LAST SAVE: 2019/02/15 10:34 AM PLOTTED: 2019/02/15 05:23 PM PLOTTED BY: TML



1
P201
PARTIAL FIRST FLOOR PLAN
PLUMBING NEW WORK - LOCKER ROOMS
SCALE: 1/4" = 1'-0"



2
P201
PARTIAL FIRST FLOOR PLAN
PLUMBING NEW WORK - TOILETS B107/B108
SCALE: 1/4" = 1'-0"

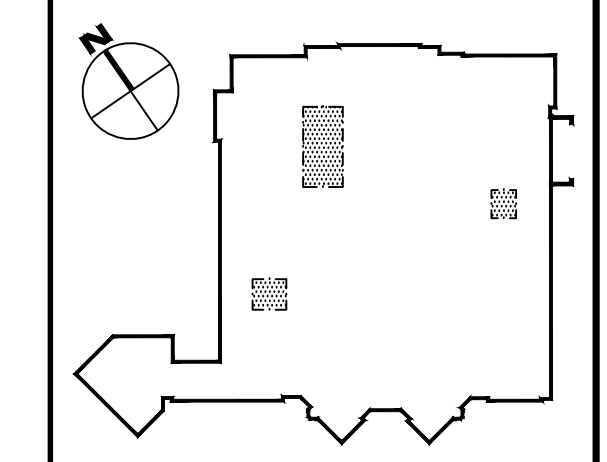


3
P201
PARTIAL FIRST FLOOR PLAN
PLUMBING NEW WORK - TOILETS B204/B205
SCALE: 1/4" = 1'-0"

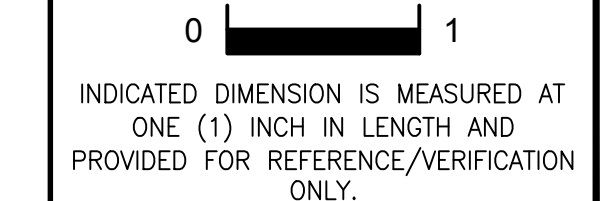
NEW WORK NOTES:

- ◆ PROVIDE NEW WATER CLOSET AND FLUSH VALVE AS INDICATED. EXTEND DOMESTIC COLD WATER PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WATER CLOSET. MODIFY EXISTING WATER CLOSET SANITARY/VENT PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW WATER CLOSET. SUPPORTS AS REQUIRED TO ACCEPT THE NEW WALL MOUNTED WATER CLOSET. REFER TO ARCHITECTURAL DOCUMENTS FOR THE WALL OPENING AND COORDINATE WALL OPENING WITH THE GENERAL CONSTRUCTION CONTRACTOR.
- ◆ PROVIDE NEW WALL MOUNTED URINAL AND FLUSH VALVE AS INDICATED. MODIFY THE EXISTING URINAL SUPPORTS AS REQUIRED TO ACCEPT THE NEW WALL MOUNTED URINAL. EXTEND DOMESTIC COLD WATER PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW URINAL. EXTEND SANITARY/VENT PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW URINALS. REFER TO ARCHITECTURAL DOCUMENTS FOR THE WALL OPENING AND COORDINATE WALL OPENING WITH THE GENERAL CONSTRUCTION CONTRACTOR.
- ◆ PROVIDE NEW WALL MOUNTED LAVATORY AS INDICATED. EXTEND DOMESTIC COLD WATER PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW LAVATORY. EXTEND SANITARY/VENT PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW LAVATORY. PROVIDE LAVATORY WITH THE POINT OF USE HOT WATER HEATER AS INDICATED ON THE PLUMBING SCHEDULE AND LAVATORY/HOT WATER HEATER PIPING DIAGRAM DETAIL. REFER TO ARCHITECTURAL DOCUMENTS FOR THE WALL OPENING AND COORDINATE WALL OPENING WITH THE GENERAL CONSTRUCTION CONTRACTOR.
- ◆ REMOVE AND REINSTALL EXISTING WALL CLEANOUT COVER AND/OR HOSE BIBB AS REQUIRED TO FACILITATE THE NEW TILING. REFER TO THE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFO AND COORDINATE WITH THE GENERAL CONTRACTOR.
- ◆ PROVIDE NEW WALL MOUNTED ELECTRIC IN-WALL BOTTLE FILLING STATION AS INDICATED. EXTEND DOMESTIC COLD WATER PIPING SERVING THE EXISTING WATER COOLER AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW BOTTLE FILLER. EXTEND SANITARY/VENT PIPING AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW ELECTRIC IN-WALL BOTTLE FILLING STATION. REFER TO ARCHITECTURAL DOCUMENTS FOR THE WALL OPENING AND COORDINATE WALL OPENING WITH THE GENERAL CONSTRUCTION CONTRACTOR.

KEY PLAN - DAVIES MIDDLE SCHOOL



REFERENCE DIMENSION



INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-238-8910 609-347-1593 302-654-9959
www.gillan-hartmann.com | ghillan@gillan-hartmann.com
Get. of Auth. #0427932400 G&H Project No. 2018-205

02/15/2019
ISSUED FOR BID

ENGINEER MICHAEL S. GILLAN, PE DATE NO. 24GE04470000

EFVHD architects
planners
Frattak Velisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 19453
F V H D P C . C O M

JOHN J. VEISZ, AIA, CSBA
WILLIAM D. HOPKINS III, AIA, LEED AP
GEORGE R. DUTRIE, JR., AIA, PP

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C

Project Date
02.15.2019

Checked By
TJB

Drawn By
TMH

Scale
AS NOTED

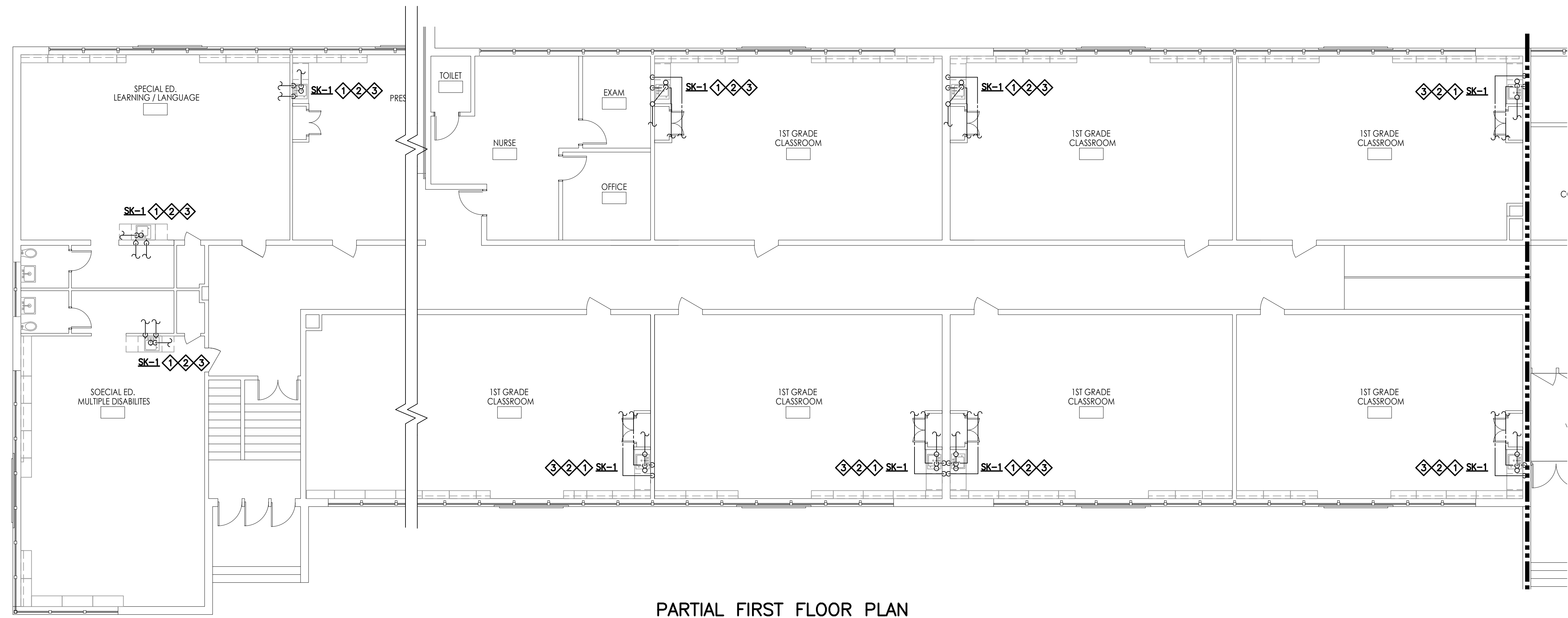
Drawing Name
PARTIAL FIRST FLOOR PLAN: PLUMBING NEW WORK - TOILET & LOCKER ROOMS

DAVIES M.S.

No.	Date	Description

Drawing Number
P201

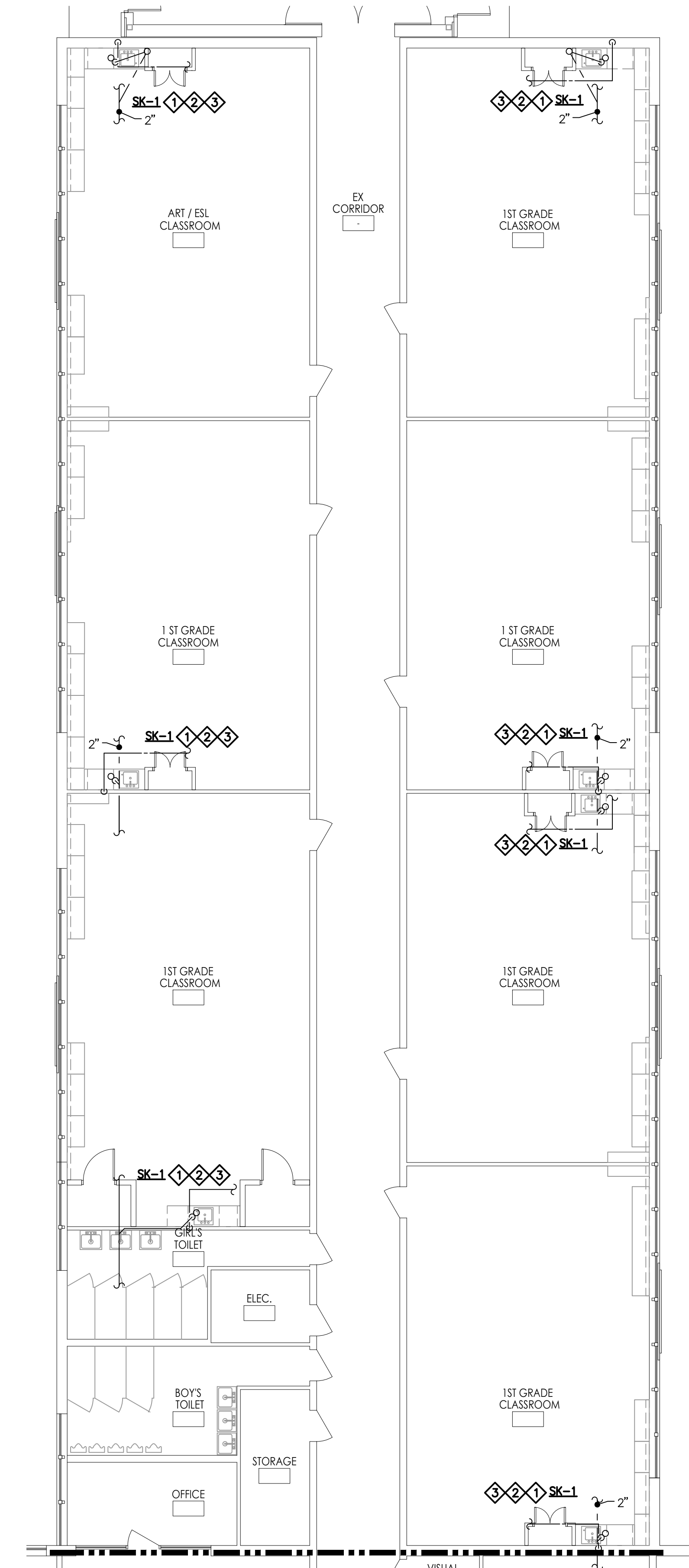
FILE PATH: C:\projects\2018\02152019_HMSD_William_Davies_MS_Renovations_Drawings\Plumbing New Work_Davies.dwg
USER: SAGD: 20180215 10:26 AM PLOTTED: 20180215 04:43 PM PLOTTED BY: TML



1
P201
PARTIAL FIRST FLOOR PLAN
PLUMBING NEW WORK — BLOCK D1
SCALE: 1/8" = 1'-0"

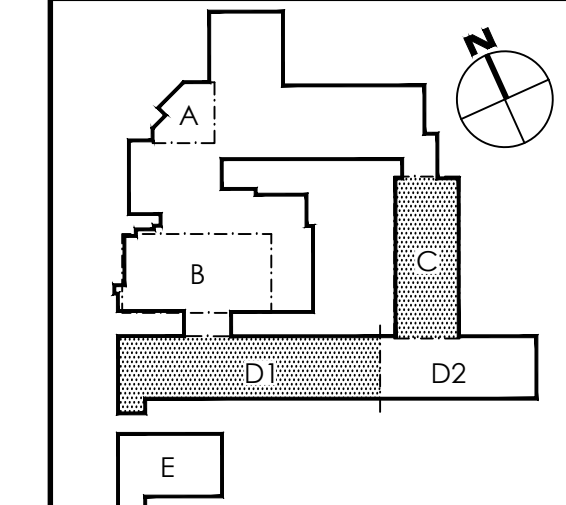
NEW WORK NOTES:

- ◆ INSTALL THE NEW FAUCET PER THE MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DOCUMENTS AND TYPICAL CLASSROOM SINK REPLACEMENT DETAIL FOR ADDITIONAL INFORMATION.
- ◆ PROVIDE NEW DOMESTIC COLD WATER AND HOT WATER PIPING AS REQUIRED TO EXTEND PIPING TO THE NEW SINK LOCATION. PROVIDE NEW SUPPLIES, STOPS, VALVES, AND HOSE CONNECTIONS. FOR SINKS WITH BUBBLERS PROVIDE FILTERS AS INDICATED.
- ◆ PROVIDE NEW SANITARY AND VENT PIPING AS REQUIRED TO EXTEND THE PIPING TO THE NEW SINK LOCATION. PROVIDE NEW PLUMBING TRAP AS INDICATED.



2
P201
PARTIAL FIRST FLOOR PLAN
PLUMBING NEW WORK — BLOCK C
SCALE: 1/8" = 1'-0"

KEY PLAN - SHANER ELEMENTARY



REFERENCE DIMENSION

0 1
INDICATED DIMENSION IS MEASURED AT ONE (1) INCH IN LENGTH AND PROVIDED FOR REFERENCE/VERIFICATION ONLY.

Gillan & Hartmann, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
610-935-0101 FAX: 610-935-7520
215-208-8910 609-347-1593 302-654-5959
www.gillan-hartmann.com | ghmail@gillan-hartmann.com
G&H Project No. 2018-204

02/15/2019
ISSUED FOR BID

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

FVHD architects
planners
Frattak Veisz Hopkins Dutrie P C
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453

Project Name:
ALTERATIONS AND RENOVATIONS TO JOSEPH C. SHANER MEMORIAL ELEMENTARY SCHOOL

Project Owner Name:
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location:
5801 3rd ST, MAYS LANDING, NJ 08330

Project Number:
4937B

Project Date:
02.15.2019

Checked By:
TJB

Drawn By:
TMH

Scale:
AS NOTED

Drawing Name:
PARTIAL FLOOR PLANS: PLUMBING NEW WORK - BLOCKS C & D1

SHANER E.S.

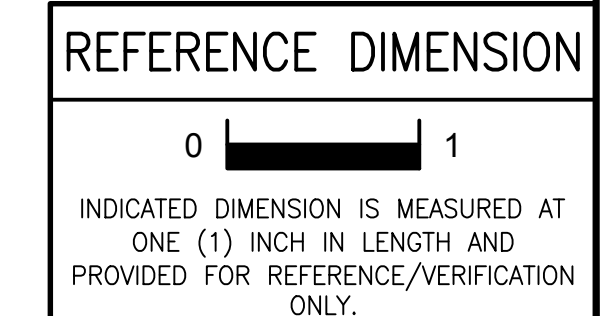
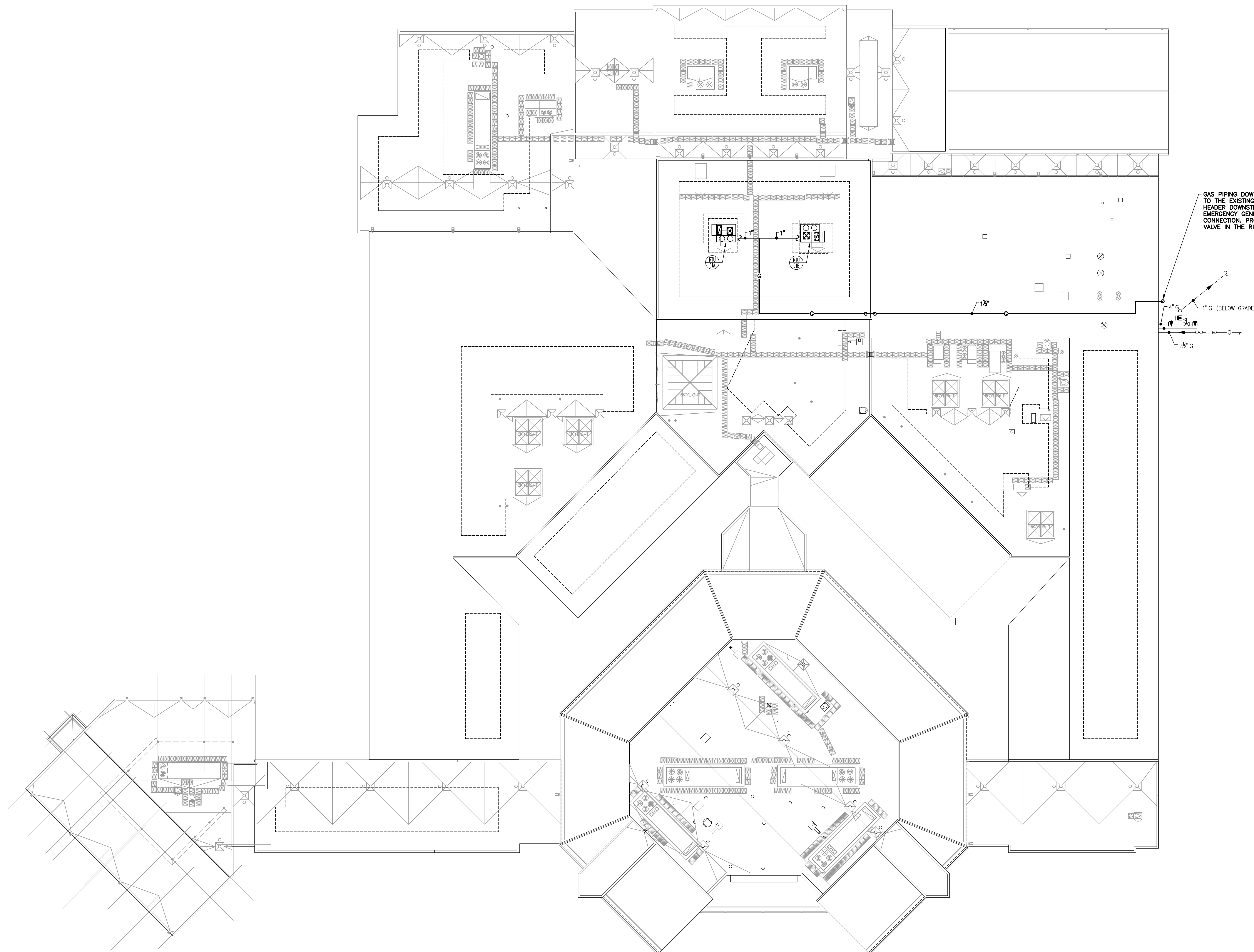
Revisions:
No. Date Description

Drawing Number:
P201

John J. Veisz, AIA, CSBA
No. 214066001 PA 80020198
William D. Hopkins III, AIA, LEED AP
No. 214066001 PA 80020204
George R. Dutrie, Jr., AIA, PP
No. 214066001 PA 80020204

FILE PATH: E:\Projects\2018\2018204_HTSO_Joseph_Shaner_ES_Renovations_Plumbing_New_Work_Shaner.dwg
LAST SAVED: 2019/02/15 10:33 AM PLOTTED: 2019/02/15 05:23 PM PLOTTED BY: TML

GAS PLAN NOTES: (1) DEVELOPED RUN TO LAST APPLIANCE (2PSI SYSTEM) < 400'.
 (2) PIPE SIZING FOR PRIMARY PRESSURE BASED ON 2015 NATIONAL FUEL GAS CODE; TABLE 402.4(4); LESS THAN 2PSI W/6.0IN. DROP.



1 PLUMBING NEW WORK — ROOF PLAN
 SCALE: 20' = 1'-0"

02/15/2019
 ISSUED FOR BID

Gillan & Hartmann, Inc.
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
 610-935-0101 FAX: 610-935-7520
 215-208-8910 609-347-1593 302-654-5959
 www.gillan-hartmann.com | ghmail@gillan-hartmann.com
 Cert. of Auth. #0427932400 G&H Project No. 2018-205

ENGINEER: MICHAEL S. GILLAN, PE DATE: NO. 24GE04470000

JOHN J. VEISZ, AIA, CSBA
 No. 214866400 | PA: 80028198
 WILLIAM D. HOPKINS III, AIA, LEED AP
 No. 214866400 | PA: 80028198
 GEORGE R. DUTHIE, JR., AIA, PP
 No. 214866400 | PA: 80028198

FVH D architects
 planners
 Fraytak Veisz Hopkins Duthie P C
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628
 Pennsylvania: 140 Wiltshire Ave - Mont Clare - Pennsylvania 17453
 F V H D P C - C O M

Project Name
ALTERATIONS AND RENOVATIONS TO WILLIAM DAVIES MIDDLE SCHOOL

Project Owner Name
HAMILTON TOWNSHIP BOARD OF EDUCATION

Project Location
1876 DENNIS FORMAN DR, MAYS LANDING, NJ 08330

Project Number
4937C
 Project Date
02.15.2019
 Checked By
TJB
 Drawn By
TMH
 Scale
AS NOTED

Drawing Name
ROOF PLAN: PLUMBING NEW WORK
DAVIES M.S.

Revisions		
No.	Date	Description

Drawing Number
P221

FILE PATH: C:\projects\2018\2018205_HHSO_William_Davies_MS_Renovations_Drawings\Plumbing_New_Work_Davies.dwg
 LAST SAVE: 2019/02/15 10:26 AM PLOTTED: 2019/02/15 04:43 PM PLOTTED BY: TML