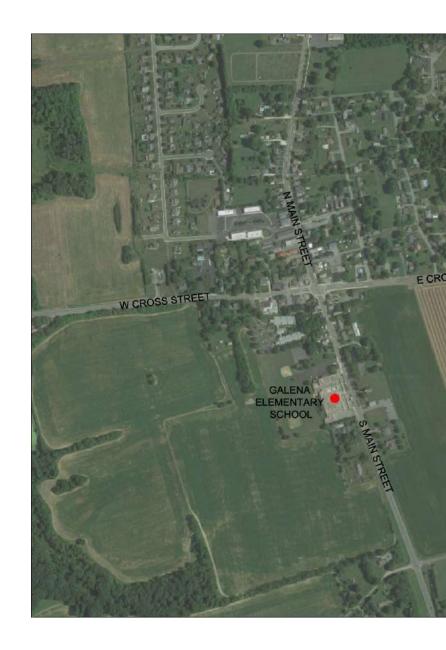
ADDITION AND RENOVATIONS OF GALENA ELEMENTARY SCHOOL



DEPARTMENT OF GENERAL SERVICES ELLINGTON E. CHURCHILL, JR., SECRETARY 301 WEST PRESTON STREET BALTIMORE, MARYLAND 21201

114 S MAIN STREET GALENA, MD 21635 **KENT COUNTY**

KENT COUNTY PUBLIC SCHOOLS CRA PROJECT No. 3309 FEBRUARY 10, 2020 PSC NO. 14.002.20LP/21C. KCPS FACILITY NO. 14.0106

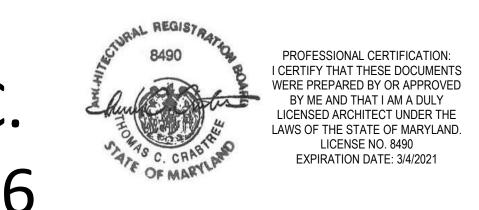


CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS 100 WEST ROAD, SUITE 402 TOWSON, MD 21204 STRUCTURAL ENGINEER ADTEK ENGINEERS 150 S EAST ST, SUITE 201 FREDERICK, MD 21701

MEP ENGINEER ALBAN ENGINEERING 303 INTERNATIONAL CIR #450, COCKEYSVILLE, MD 21030

STATE OF MARYLAND

KENT COUNTY PUBLIC SCHOOLS DR. KAREN M. COUCH, SUPERINTENDENT 5608 BOUNDARY AVE ROCK HALL, MD 21661



CIVIL ENGINEER DMS & ASSOCIATES, LLC 207 E WATER STREET CENTERVILLE, MD 21617

FOOD SERVICE NYIKOS ASSOCIATES, INC 18219-A FLOWER HILL WAY, GAITHERSBURG, MD 20879

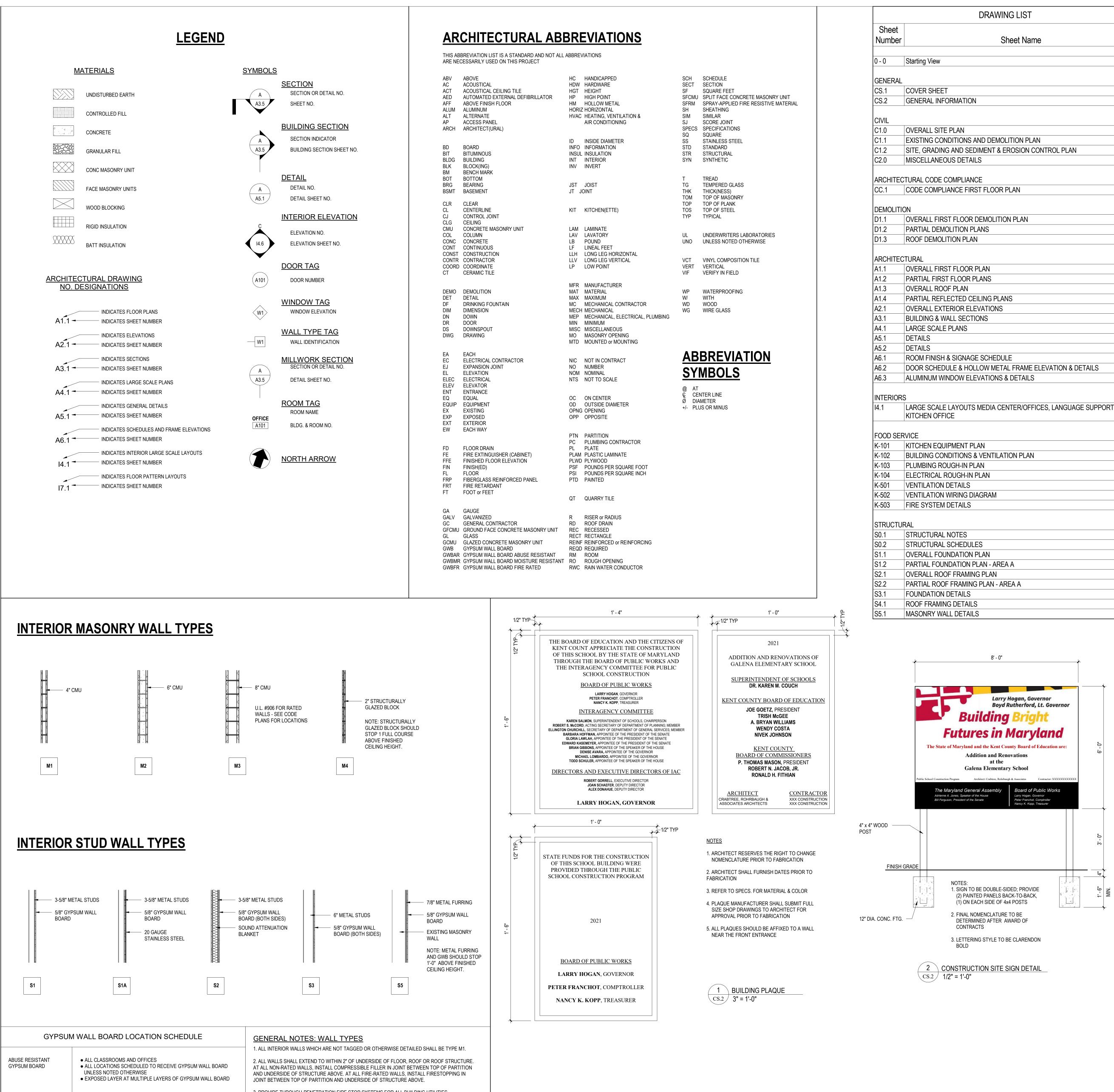
HAZMAT ECS MID-ATLANTIC, LLC 1340 CHARWOOD RD, SUITE B HANOVER, MARYLAND 21076

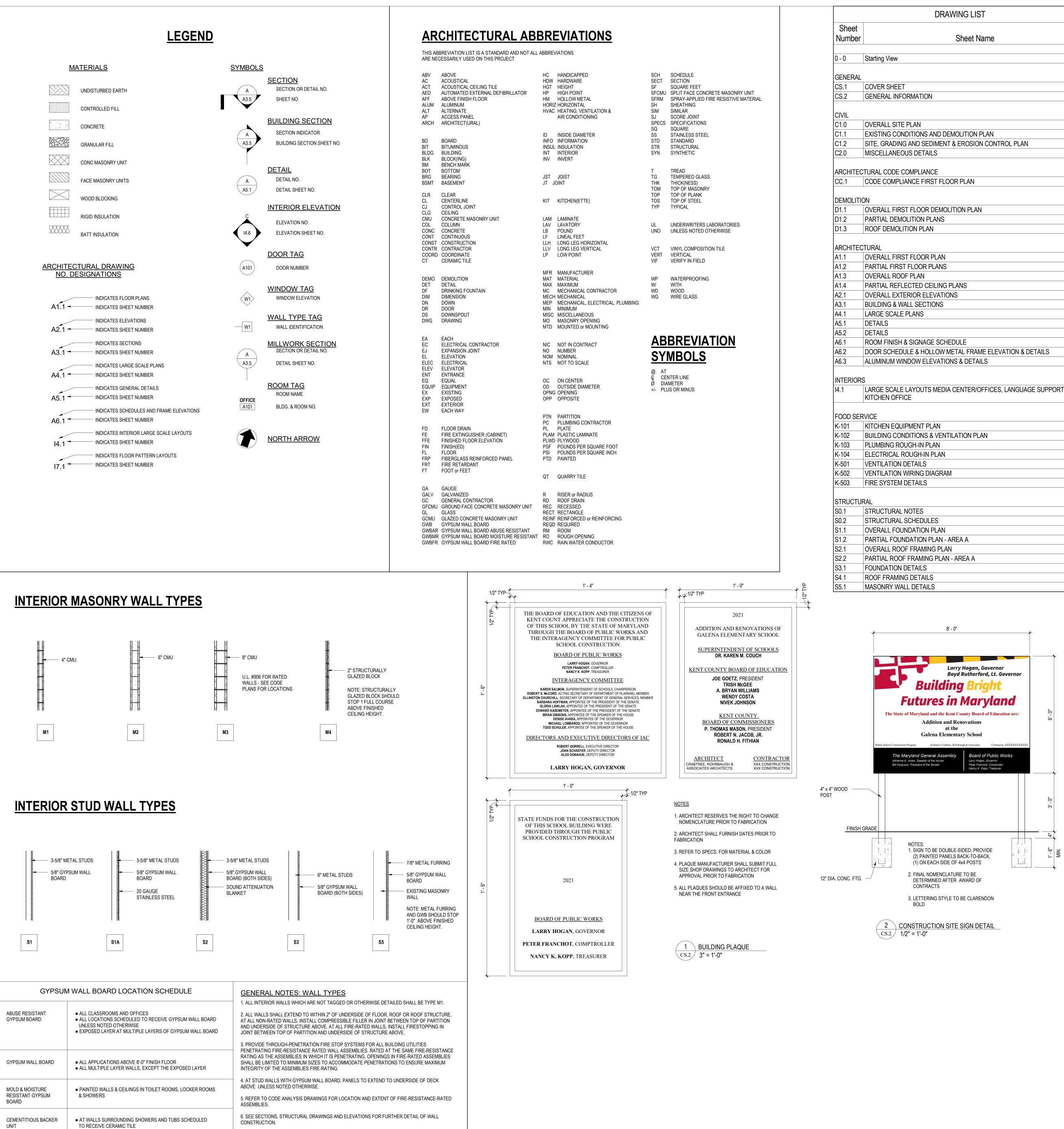
APPLICABLE CODES:

Maryland Building Rehabilitation Code, COMAR 09.12.58 International Existing Building Code / 2018 – Chapter(s) 5, 6, 7, 8 & 11 Maryland Building Performance Standards, COMAR 09.12.51 International Building Code / 2018 National Electrical Code / 2017 nternational Fuel Gas Code / 2018 International Mechanical Code / 2018 2015 National Standard Plumbing Code / 2015 International Energy Conservation Code / 2018 nternational Green Construction Code / 2012 Maryland Fire Prevention Code, COMAR 29.06.01 NFPA 1 National Fire Code / 2018 NFPA 101 Life Safety Code / 2018 Maryland Accessibility Code, COMAR 05.02.02 2010 ADA Standards

BOARD OF PUBLIC WORKS LARRY HOGAN, GOVERNOR PETER FRANCHOT, COMPTROLLER NANCY K. KOPP, TREASURER



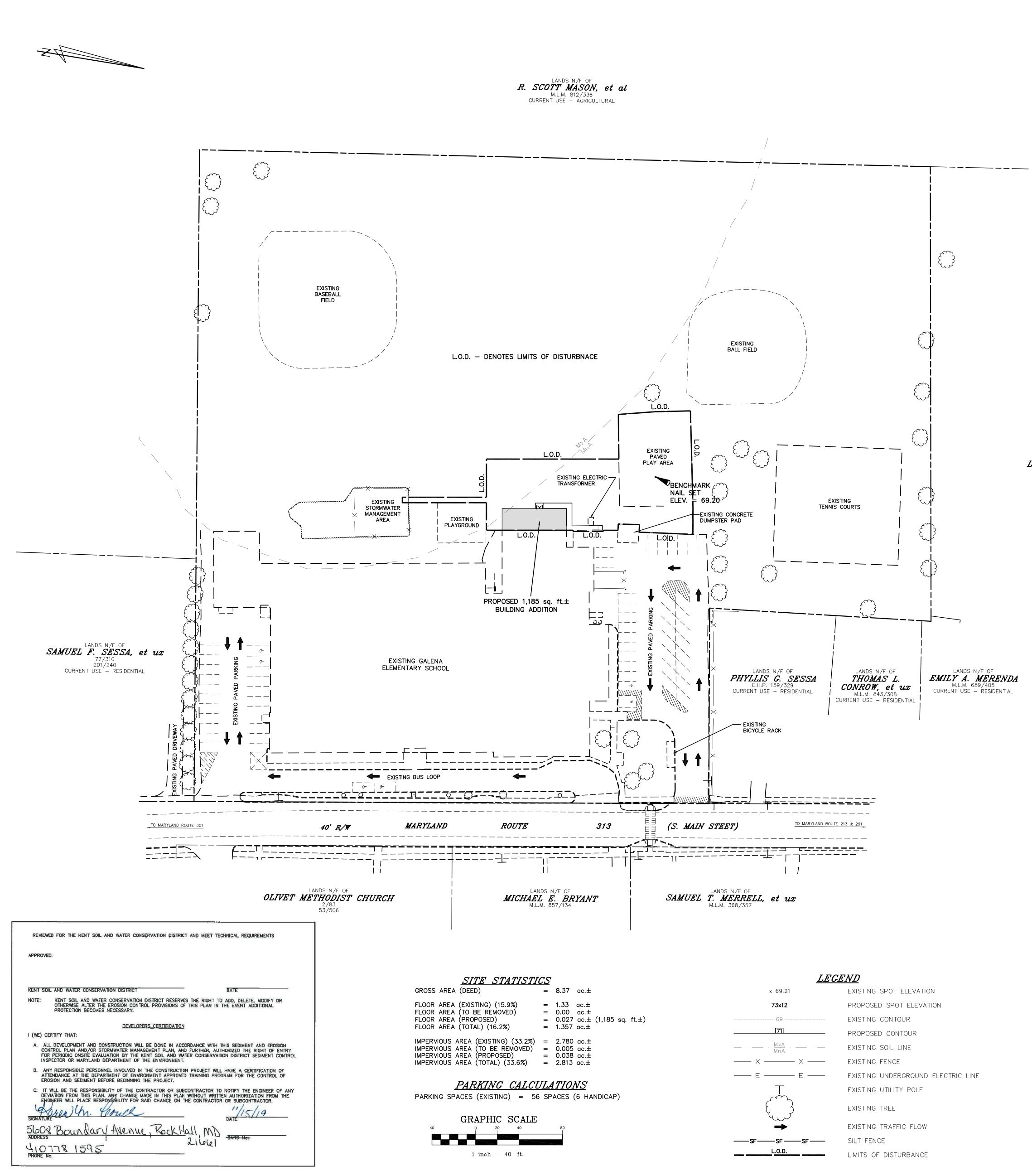




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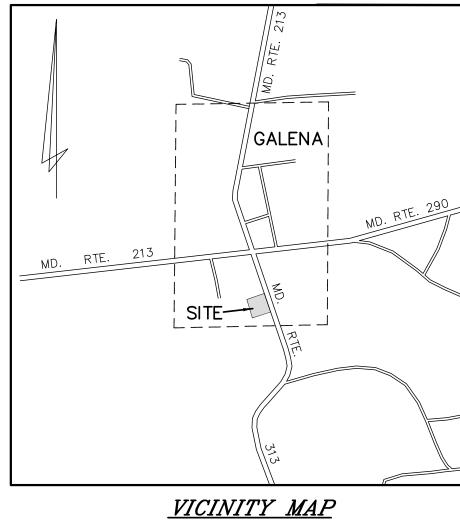
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MD2.2	PARTIAL FLOOR PLANS – BASE BID RTU REPLACEMENTS - DEMOLITION
MD2.3	ROOF PLAN - DEMOLITION
MECHANI	CAL
M2.1	PARTIAL FLOOR PLANS - BASE BID AND ALTERNATES
M2.2	PARTIAL FLOOR PLANS – BASE BID RTU REPLACEMENTS
M2.3	ROOF PLAN
M3.1	MECHANICAL SECTIONS
M7.1	AIR DISTRIBUTION DETAILS
M7.2	PIPING AND EQUIPMENT DETAILS
M7.3	EQUIPMENT SUPPORT AND ROOFTOP DETAILS
M8.1	TYPICAL SZVAV RTU WITH HEAT RECOVERY AND HW HEAT CONTROL DIAGRAM
M8.2	TYPICAL VAV RTU WITH HEAT RECOVERY AND HW HEAT CONTROL DIAGRAM
M8.3	TYPICAL VAV RTU WITH HEAT RECOVERY CONTROL DIAGRAM
M8.4	TYPICAL SZVAV RTU CONTROL DIAGRAM
M8.5	TYPICAL VAV RTU WITH HW HEAT CONTROL DIAGRAM
M9.1	SCHEDULES & EQUIPMENT NOTES
M9.2	VENTILATION RATES SCHEDULE
PLUMBING	GENERAL
P0.1	PLUMBING NOTES, & LEGEND
PD2.1 PD2.2	FLOOR PLAN - DEMOLITION ROOF PLAN - DEMOLITION
PLUMBING	
	PARTIAL FLOOR PLANS - KITCHEN/CAFETERIA
P2.1	
P2.2	PARTIAL FLOOR PLANS - ADD ALTERNATE
P2.3	ROOF PLAN
P6.1	RISER DIAGRAMS
P7.1	PIPING DETAILS
P7.2	EQUIPMENT AND ROOF DETAILS
P9.1	SCHEDULES, NOTES & RISERS
FIRE PRO	TECTION
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FP7.1	FIRE PROTECTION DETAILS
E0.1	ELECTRICAL LEGEND, ABBREVIATIONS, & CONVENTIONS
E0.2	LIGHT FIXTURE SCHEDULE
ELECTRIC	AL DEMOLITION
ED1.1	DEMOLITION PLANS
ELECTRIC	
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	ELECTRICAL PLANS
E2.1	LIGHTING PLANS
E3.1	FIRE ALARM
E4.1	KITCHEN PART PLANS
	SCHEMATIC RISER DIAGRAMS
E5.1	
-	ELECTRICAL DETAILS
E5.1 E6.1 E7.1	ELECTRICAL DETAILS PANELBOARD SCHEDULES







_7	ABL	<u>E</u> (<u> DF CONTENTS</u>
SHEET	C1.0	_	OVERALL SITE PLAN
SHEET	C1.1	_	EXISTING CONDITIONS AND DEMOLITION PLAN
SHEET	C1.2	-	SITE, GRADING AND SEDIMEN & EROSION CONTROL PLAN
SHEET	C2.0	_	MISCELLANEOUS DETAILS



SCALE 1" = 2000'

GENERAL NOTES

- 1. These drawings show information obtained from the best available records regarding pipes, conduits, telephone lines, and other structures and conditions which exist along the lines of the work both at and below the surface of the ground. The owner and engineer disclaim any responsibilities for the accuracy or completeness of said information being shown only for the convenience of the contractor, who must verify the information to his own satisfaction. If the contractor relies on said information, he does so at his own risk. The giving of the information on the contract drawings will not relieve the contractor of his obligations to support and protect all pipes, conduits, telephone lines, and other structures.
- 2. The contractor shall notify the following two (2) weeks prior to the start of construction and shall coordinate construction with the utility companies involved:

Delmarva Power & Light Company ----- 1-800-375-7117 Miss Utility ----- 1-800-441-8355 DMS & Associates, LLC ----- 1-443-262-9130 Kent County Dept. Public Works ----- 1-410-778-7439 Kent Co. Sediment & Erosion Control Inspector - 1-410-778-7437

- 3. All construction shall be marked for traffic and pedestrian safety.
- 4. The Contractor shall provide all equipment, labor, and materials for any miscellaneous or test pit excavations required by the Engineer.
- 5. The owner is responsible for the acquisition of all easements, both permanent and temporary.
- 6. The Contractor assumes all responsibility for any deviations from these plans unless said deviation is approved by the Engineer. Contractor shall receive written permission from the Engineer if a deviation of the plans is necessary.
- 7. All disturbed areas shall be smoothly graded to provide positive drainage in the direction of flow arrows herein and stabilized with topsoil, seed, and mulch. If settlement occurs, topsoil, seeding, and mulching shall be repeated until settlement subsides (See Erosion and Sediment Control Specifications).
- 8. All trash, trees, and underbrush are to be cleared and removed off site to an approved dump site by the contractor.
- 9. Any excess excavated material shall be removed off site by the contractor or material shall be placed on site as directed by the Engineer and/or Owner.
- 10. Any existing survey monumentation that is disturbed during construction shall be replaced by a registered surveyor at the contractor's expense.
- 11. The Contractor shall conduct his work in easements so that there will be a minimum of disturbance of the properties crossed. Any disturbed areas shall be restored to its original condition.
- 12. All materials and methods of construction shall conform to the drawings, specifications, local building codes, and the standard specifications and details of the Kent County.
- 13. All drainage structures and swales shall remain functional during construction unless otherwise indicated on the plans.
- 14. All water valves, boxes and hydrants shall be set and adjusted to finish grade.
- 15. Wherever sewer or water mains or services run parallel to each other, a minimum horizontal separation of 10' shall be provided.
- 16. Minimum cover over the water main shall be 42".
- 17. All concrete used for utility work shall be in accordance with MD SHA Standards and Specifications for Mix No. 2.
- 18. All paving materials and methods shall be in accordance with the latest MD SHA Standards and Specifications and be supplied by a State Certified plant.
- 19. Trenches shall not remain open overnight. If it is necessary for trenches to remain open, steel plates capable of bearing traffic shall be used to completely cover the trench openings.
- 20. Erosion and Sediment Control will be strictly enforced by the Kent County Sediment Control Inspector.
- 21. All top of curb grades shown hereon are for undepressed conditions.

<u>NOTES</u>

- 1. EXISTING IMPROVEMENTS AND TOPOGRAPHY WITHIN THE PROJECT AREA SHOWN HEREON ARE THE RESULT OF A FIELD RUN SURVEY BY MICHAEL A. SCOTT, INC. IN AUGUST, 2019.
- 2. CURRENT USE INSTITUTIONAL
- 3. CURRENT ZONING CLASSIFICATION IS RESIDENTIAL.
- 4. THE PROPERTY IS NOT LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
- 5. SITE IS NOT LOCATED WITHIN THE 100 YEAR FLOODPLAIN AS SCALED FROM FLOOD INSURANCE RATE MAPS COMMUNITY PANEL 24029C0185D. (ZONE "X"), DATED JUNE 9, 2014.
- 6. SOILS SHOWN ONSITE CONSIST OF "MATAPEAKE SILT LOAM" (MnA) AND (MxA) AS SCALED FROM http://websoilsurvey.nrcs.usda.gov.

BRISCO FAMILY LIMITED PARTNERSHIP M.L.M. 50/423 CURRENT USE – APARTMENTS

LANDS N/E OF

<u>OWNER:</u>

GALENA MIDDLE ELEMENTARY SCHOOL 114 S. MAIN STREET GALENA, MARYLAND 21635 Ph: 1-410-810-2510

<u>DEVELOPER:</u>

KENT COUNTY PUBLIC SCHOOLS 5608 BOUNDARY AVENUE ROCK HALL, MARYLAND 21661 Ph: 1-410-778-1595

<u>ARCHITECT</u>

CRABTREE, ROHRBAUGH & ASSOCIATES 200 WEST ROAD, SUITE 402 TOWSON, MARYLAND 21204 PHONE No. 1-410-528-0272

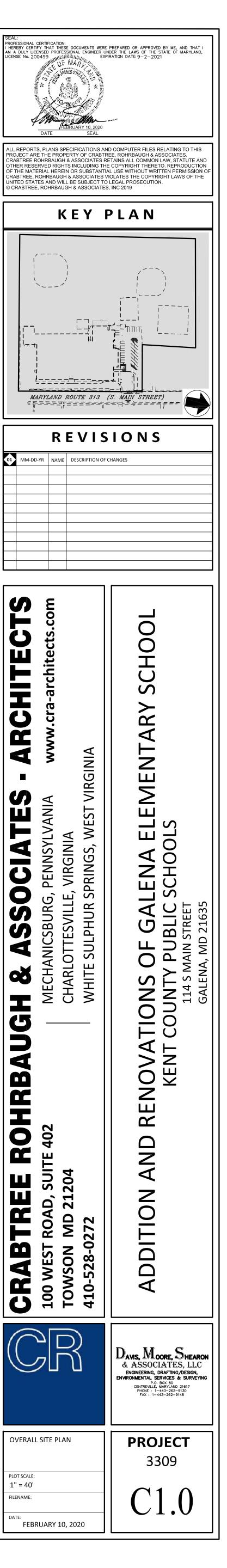
ENGINEER:

DMS & ASSOCIATES, LLC c/o KEVIN SHEARON, P.E., LEED AP P.O. BOX 80 CENTREVILLE, MARYLAND 21617 PHONE No. 1-443-262-9130

<u>SURVEYOR</u>

MICHAEL A. SCOTT, INC. 400 S. CANNON STREET CHESTERTOWN, MARYLAND 21620 PHONE No. 1-410-778-2310

KENT SOIL AND WATER CONSERVATION DISTRICT



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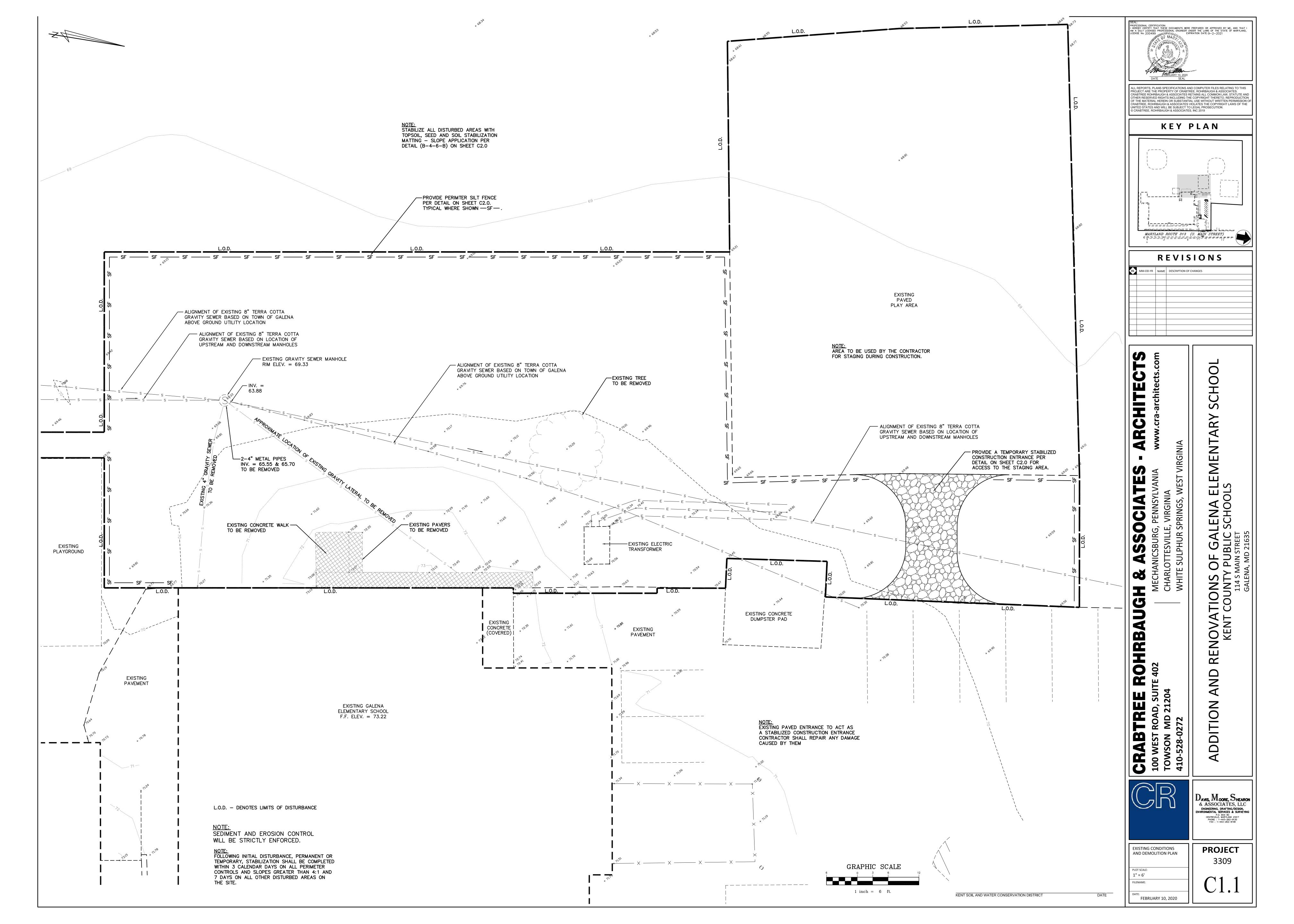
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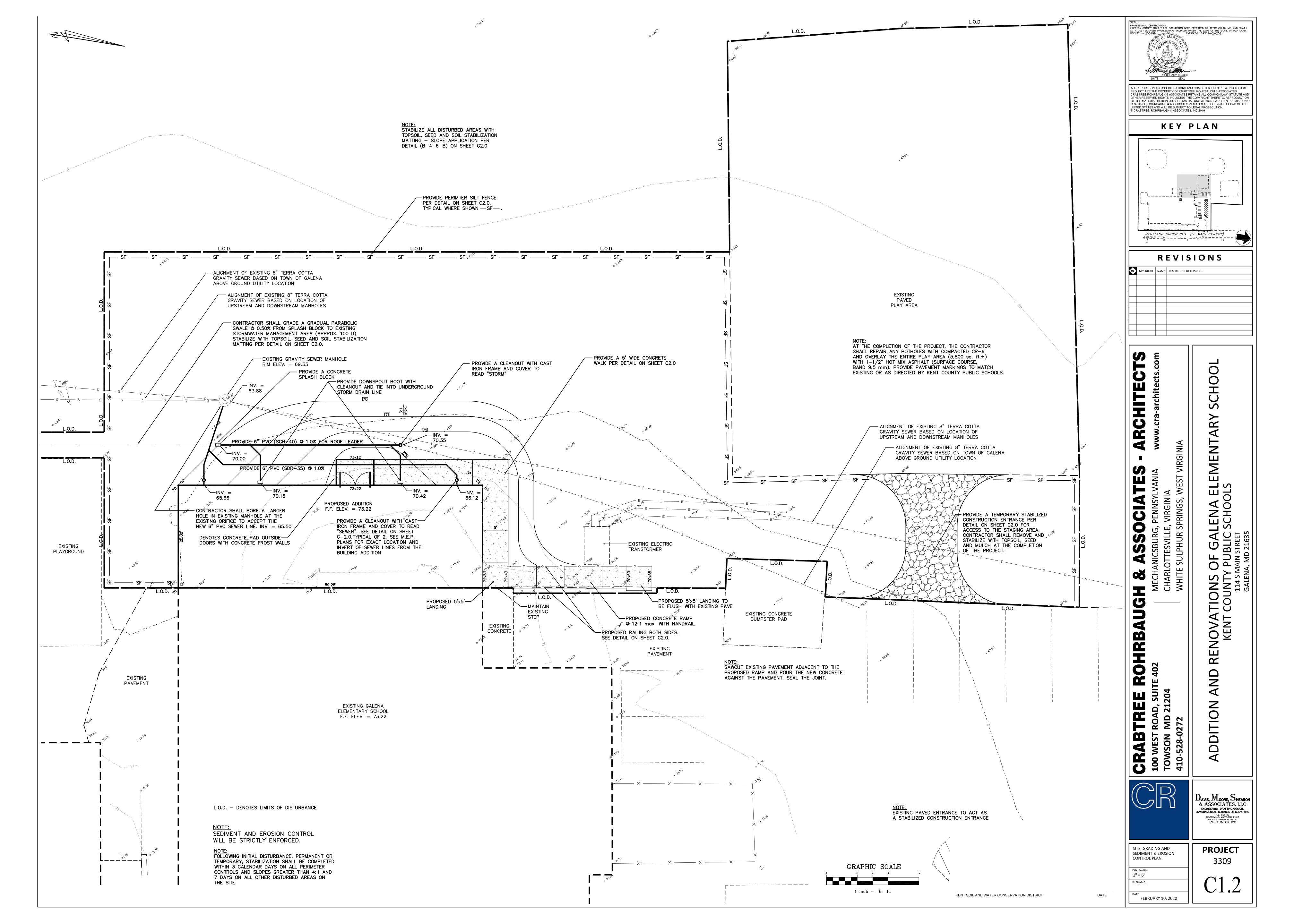
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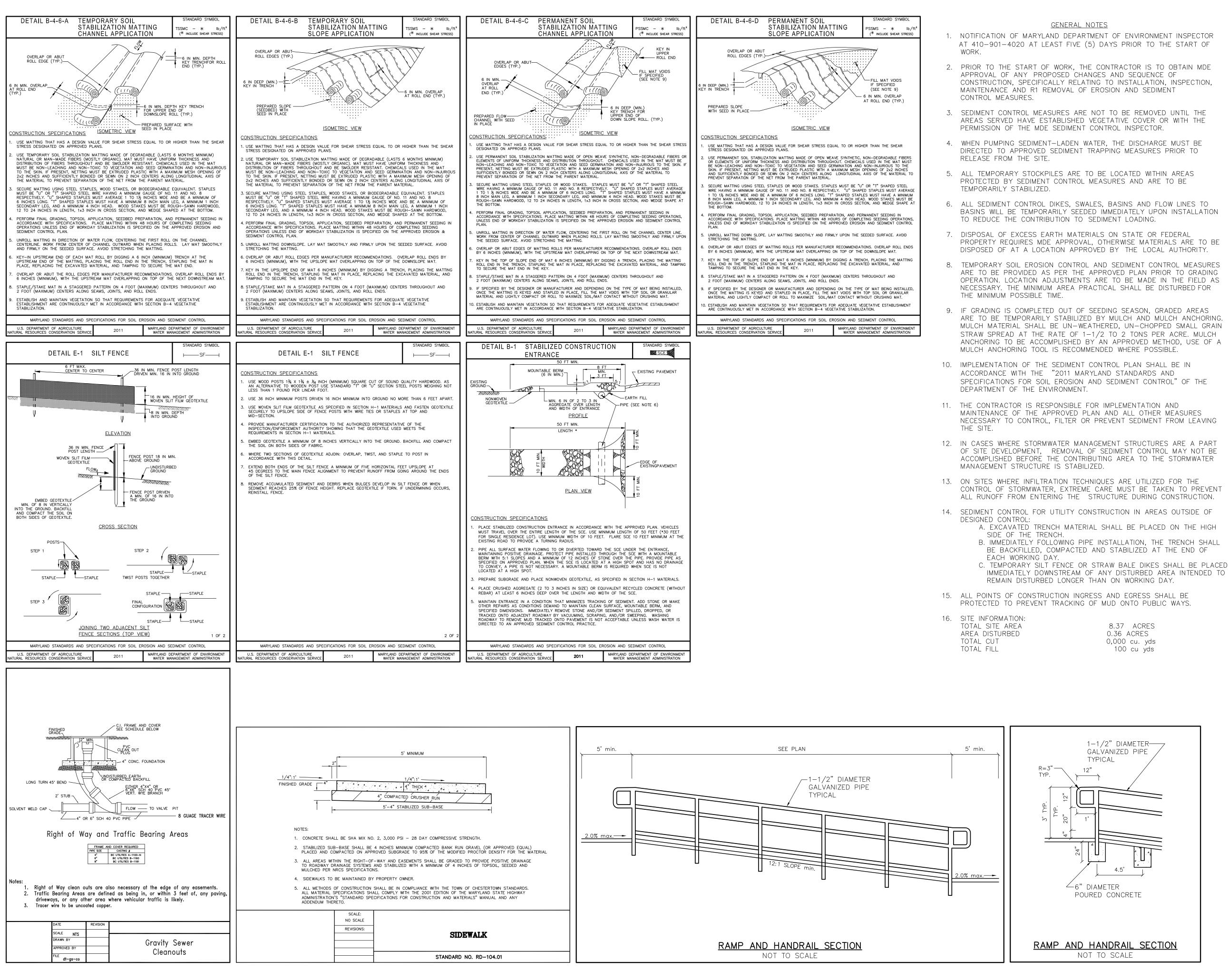
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PHASE OF CONSTRUCTION

- 1. CONTACT THE KENT COUNTY SEDIMENT AND EROSION CONTROL INSPECTOR AT 410-778-7437 A MINIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO INITIATION OF ANY GRADING ACTIVITY.
- 2. INSTALL PERIMETER SILT FENCE AND TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AT LOCATIONS SHOWN. 3. REMOVE THE CONCRETE WALK, PAD AND PAVERS AS SHOWN. STRIP
- THE TOPSOIL FROM THE LIMITS OF THE BUILDING ADDITION AND DISPOSED OF OFFSITE AT AN APPROVED OFFSITE LOCATION.
- 4. BEGIN BUILDING ADDITION CONSTRUCTION.
- 5. MAINTAIN PERIMETER CONTROLS.
- 6. INSTALL UNDERGROUND UTILITIES (STORM AND SANITARY SEWER). 7. GRADE SWALE TO EXISTING STORWMWATER MANAGEMENT AREA.
- STABILIZE WITH TOPSOIL, SEED, AND STABILIZATION MATTING.
- 8. REMOVE EXISTING STABILIZED CONSTRUCTION ENTRANCE AND STABILIZE AREA WITH TOPSOIL, SEED AND MULCH.
- 9. UPON APPROVAL FROM THE KENT COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE ALL DISTURBED AREAS PER PERMANENT STABILIZATION SPECIFICATIONS FOUND ON THIS SHEET. TOTAL AREA TO BE DISTURBED = $0.36 \text{ ac.} \pm (15,724 \text{ sg. ft.} \pm)$ TOTAL AREA TO BE SEEDED = 0.18 ac. \pm (7,988 sq. ft. \pm

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EROSION & SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

- 1.) Contractor shall install soil erosion and sediment control devices prior to any grading. Following initial disturbance or re-disturbance, permanent or temporary stabilization shall be completed within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes greater than three (3) horizontal to one (1) vertical (3:1) and seven days (7) as to all other disturbed or graded areas on the project site.
- 2.) All temporary erosion and sediment control devices are to be provided as indicated on this plan, with location adjustments to be made in the field as necessary, and to be maintained at the end of each working day until project completion. The minimum area practical shall be disturbed for the minimal amount of time possible.
- 3.) Clearing and grubbing shall include all trees, brush, debris, root mat and organic materials to be removed.
- 4.) Temporary seeding shall be accomplished between February 15th through April 30th, or August 15th through November 30th. During other times, temporary mulching shall be provided.
- 5.) Temporary seeding shall conform to the following applications: 436 lbs. per acre of 10-20-20; 4,000 lbs. per acre of ground limestone, to be incorporated into the soil by disking or other suitable means. Annual rye grass shall be applied at a rate of 50 lbs. per acre using suitable equipment. Mulching shall be accomplished immediately after seeding

	Seed Mixture (For Hazard Zone 7a) (From Table B-1)					Lime	
No.	. Species Appl. Rate (lbs./ac.)		Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Rate	
	ANNUAL RYE GRASS	50 lbs.	2/15-4/30 8/15-11/30	1/2"			
	BARLEY OATS WHEAT CEREAL RYE	72 lbs. 120 lbs.	2/15-4/30, 8/15-11/30 2/15-4/30, 8/15-11/30 2/15-4/30, 8/15-11/30 2/15-4/30, 8/15-12/15	1" 1" 1"	436 lb/ac 10 lb/ 1000 sf	2 tons/ac 90 lb/ 1000 sf	
	FOXTAIL MILLET PEARL MILLET	30 lbs. 20 lbs.	5/1-8/14 5/1-8/14	1/2"			

- 6.) Mulching shall be unchopped, unrotted, small grain straw applied at a rate of 2-2 1/2tons per acre. Anchor mulch with a mulch anchoring tool on the contour. Wood cellulose fiber may be used for anchoring straw at 750 lbs. per acre mixed with water at a maximum of 50 lbs. of wood cellulose fiber per 100 gals of water, or with a synthetic liquid binder according to manufacture recommendations. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1,500 lbs. per acre. Mix wood cellulose fiber with water to attain a mixture with a maximum of 50 lbs. of wood cellulose fiber per 100 gals. of water.
- 7.) Permanent seeding shall be accomplished between March 1st through May 15th, or August 15th through October 15th. Permanent seeding at other than specified times will be allowed only upon written approval. Permanent seeding shall conform to the following applications: Permanent seeding for sites having disturbed over five (5) acres shall use fertilizer rates recommended by a soil testing agency and the recommendations provided in the Permanent Seeding Summary Table. Permanent seeding for conditions other than listed above shall be performed at the rates and dates as provided in the Permanent Seeding Summary Table below. Fertilizer and lime amendments shall be incorporated into the top 3" - 5" of the soil be disking or other suitable means. Mulching shall be accomplished as discussed in Item #6 of these specifications.

	Seed		Hazard Zone 7a) Table B-3)		Fertilizer Rate (10-20-20)			
No.	Species	Appl. Rate (Ibs./ac.)	Seeding Dates	Seeding Depths	N	P205	K20	Lime Rate
7	CREEPING RED FESCUE KENTUCKY BLUEGRASS	60 lbs 15 lbs.	3/1-5/15 8/15-10/15	1/4" to 1/2"				
8	TALL FESCUE	100 lbs.	3/1-5/15 8/15-10/15	1/4" to 1/2"	45 lb/ac 1 lb/ 1000 sf	90 lb/ac 2 lb/ 1000 sf	90 lb/ac 2 lb/ 1000 sf	2 tons/ac 90 lb/ 1000 sf
9	TALL FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	60 lbs 40 lbs. 20 lbs.	3/1-5/15 8/15-10/15	1/4" to 1/2"				

8.) Any spoil or borrow will be placed at a site approved by the Soil Conservation District.

- 9.) All areas remaining or intended to remain disturbed for longer than seven (7) days shall be stabilized in accordance with the USDA, Natural Resources Conservation Service Standards and Specifications for Soil Erosion and Sediment Control in developing areas for critical area stabilization.
- 10) It will be the responsibility of the Contractor or Subcontractor to notify the Engineer of any deviation from this plan. Any change made in this plan without written authorization from the Engineer will place responsibility of said change on the Contractor or the Subcontractor.

STORMWATER	MANAGEMENT	SUMMARY	<u>TABLE</u>

REQUIREMENT	VOLUME REQ.	VOLUME PRO.	NOTES
ESDv	138 cubic ft.	114 cubic ft.*	ROOFTOP DISCONNECTION/ EXISTING BIORETENTION AREA
RECHARGE (Rev)	N/A	N/A	ESD TO THE MEP MET, THUS SITE IS CONSIDERED WOODS IN GOOD CONDITION
CHANNEL PROTECTION (Cpv)	N/A	N/A	ESD TO THE MEP MET, THUS SITE IS CONSIDERED WOODS IN GOOD CONDITION
EXTREME FLOOD (Qf)	N/A	N/A	ESD TO THE MEP MET, THUS SITE IS CONSIDERED WOODS IN GOOD CONDITION

* – ADDITIONAL TREATMENT VOLUME REALIZED BY DIVERTING RUNOFF INTO THE EXISTING BIORETENTION AREA.

INSPECTION CHECKLIST

THE CONTRACTOR SHALL NOTIFY THE KENT COUNTY SEDIMENT AND EROSION CONTROL INSPECTOR AT (778-7437) AT THE FOLLOWING

EQUIRED PRECONSTRUCTION MEETING.

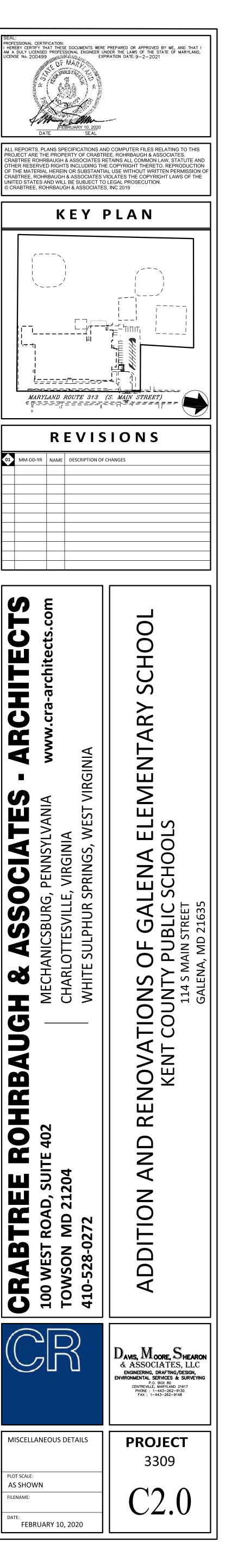
WING INSTALLATION OF SEDIMENT CONTROL MEASURES.

TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL TURE.

TO REMOVAL OF ALL SEDIMENT AND EROSION CONTROL DEVICES. TO FINAL ACCEPTANCE.

MAINTENANCE SCHEDULE

PREVENTATIVE MAINTENANCE SHALL BE ENSURED THROUGH INSPECTION OF ALL INFILTRATION SYSTEMS, RETENTION, OR DETENTION STRUCTURES BY THE KENT COUNTY INSPECTOR. THE INSPECTION SHALL OCCUR DURING THE FIRST YEAR OF OPERATION AND AT LEAST ONCE EVERY 2 YEARS THEREAFTER.



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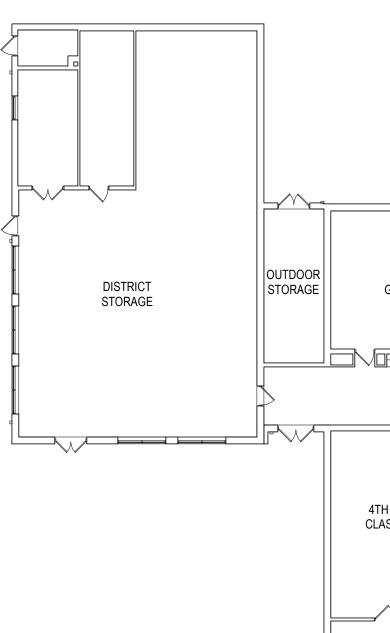
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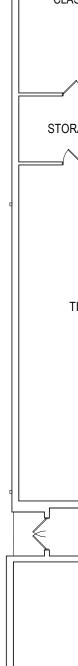
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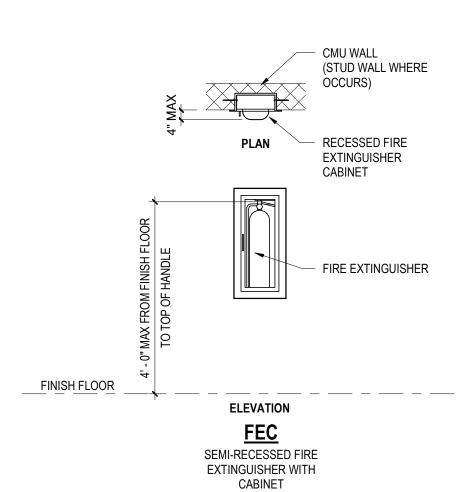
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	IBC:	GROU			
	NFPA:	NEWE	DUCATIONAL OCC	UPANCY	
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	E BUILDING AREA -				DN:
	ABLE(S) 506.2:			RE FEET	
	ITAGE INCREASE:				
ALLO	WABLE:		58,000 SQUARE FI	EET (WITH	IOUT FRONTAGE INCREASE)
PROPOSED	BUILDING AREA:	57.362	SQUARE FEET		
ALLOWABLE	E BUILDING HEIGHT	- GRO	UP E / TYPE IIB CO		
TABL	E(S) 504.3 & 504.4:		S = 75 FEET AND	STORIES	6
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PROPOSED	WORK AREAS:				
	TION:		1,183 SQUARE FE	ET	
	RATION LEVEL 1:		6,060 SQUARE FE		
ALTE	RATION LEVEL 2:		8,273 SQUARE FE		
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	FIRE AREA WITHOU				0 SQUARE FEET
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	E OFFICE:		4		4
	E SUPPORT:		42		42
SENSORY			1		1
CALMING KITCHEN:			1 4		1 8
KITCHEN			4		8
TOTALS:			184		188
	E ENTRANCE(S):		REQUIRED:		PROVIDED:
	ADDITION:		1		2
ALTERATI			1		1
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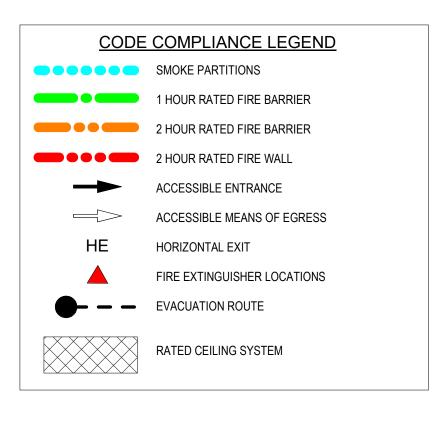


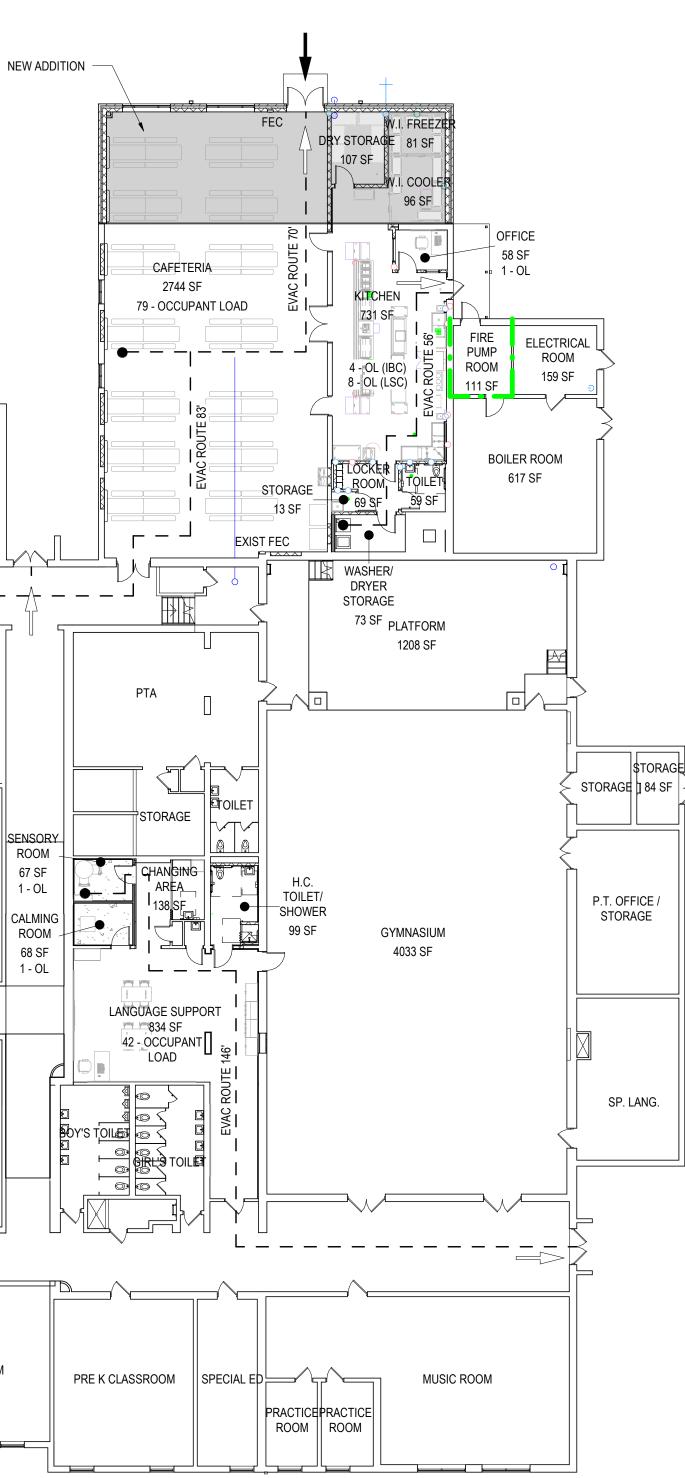
1 CODE COMPLIANCE PLAN CC.1 1/16" = 1'-0"

GUCO	SPECIAL ED		ART 2ND GF STORAGE CLASSF		3RD GRADE CLASSROOM V	SOC. WORKER EVAC ROUTE 90' ESTIBULE 70 SF	MEN'S H.C. TOILET 42 SF WOMEN'S H.C. TO 42 SF	1ST GRADE CLASSROOM DILET		
4TH GRADE CLASSROOM		GIRL'S TOILET GIRL'S TOILET STORAGE	ELL 2ND GF		SPECIAL ED		1ST GRADE CLASSROOM			
		4TH GRADE CLASSROOM	5TH GRADE CLASSROOM	4	MEDIA CENTER 2353 SF 8 - OCCUPANT LOAD	GÜIDANCE OF 383 SF F 4- OL TITLE ONE OF 382 SF 4- OL		KINDERGARTEN CLASSROOM	SENSORY ROOM 67 SF 1 - OL CALMING ROOM 68 SF 1 - OL	
TITLE 1		4TH GRADE CLASSROOM	5TH GRADE CLASSROOM		GRADE SROOM	3RD GRADE CLASSROOM		INDERGARTEN CLASSROOM		(= Y
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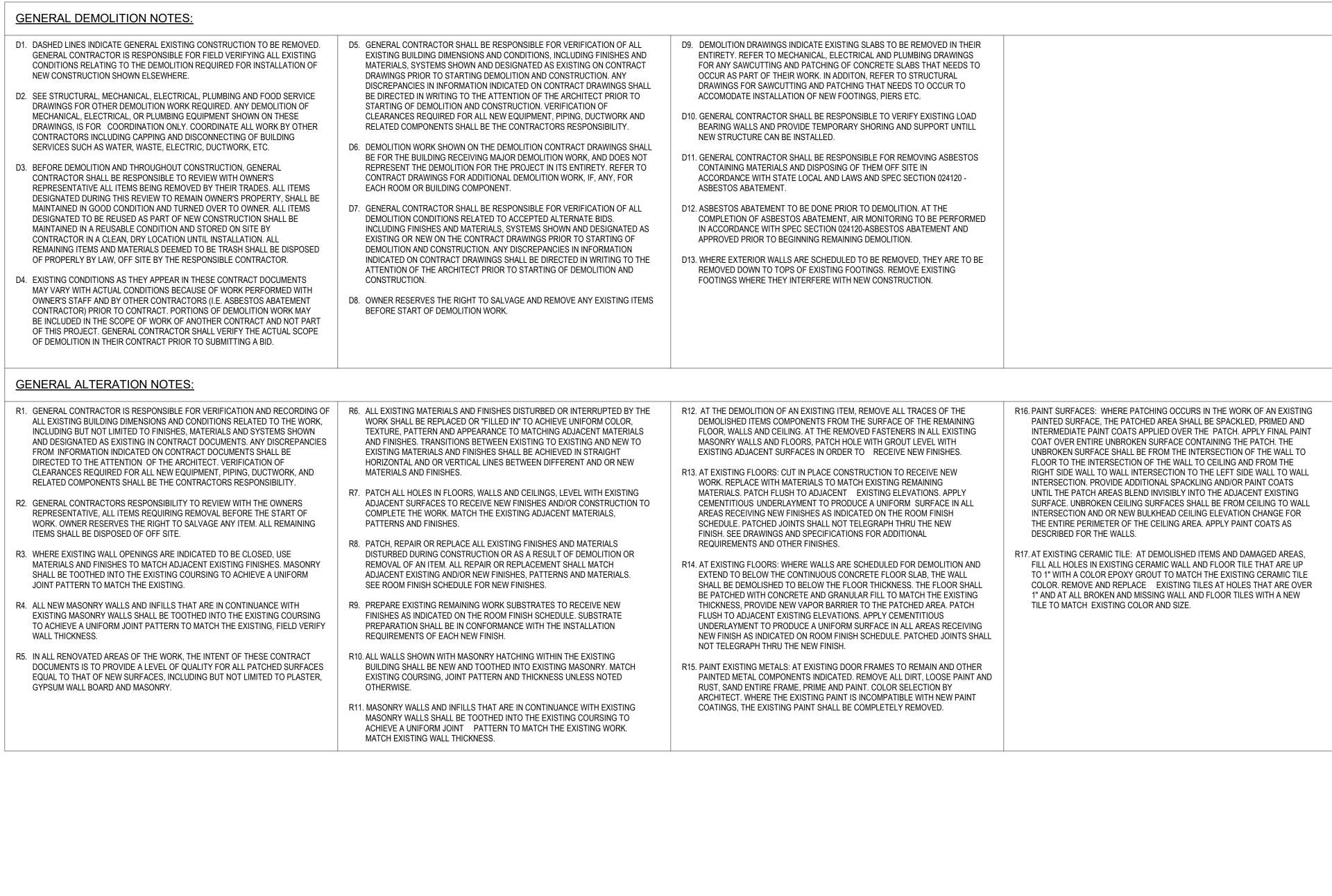


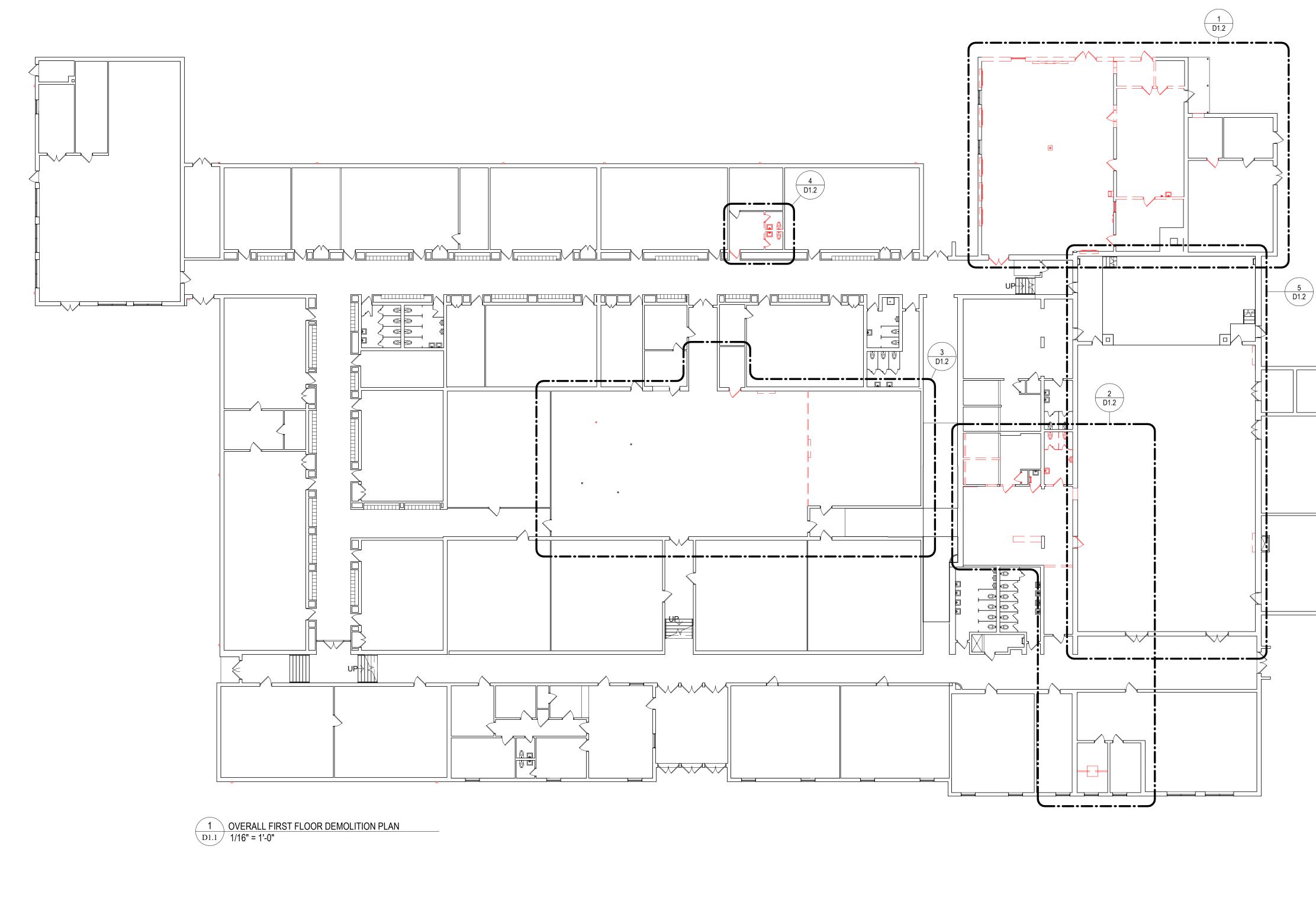
FIRE EXTINGUISHER DETAILS SCALE: 1/2" = 1'-0"





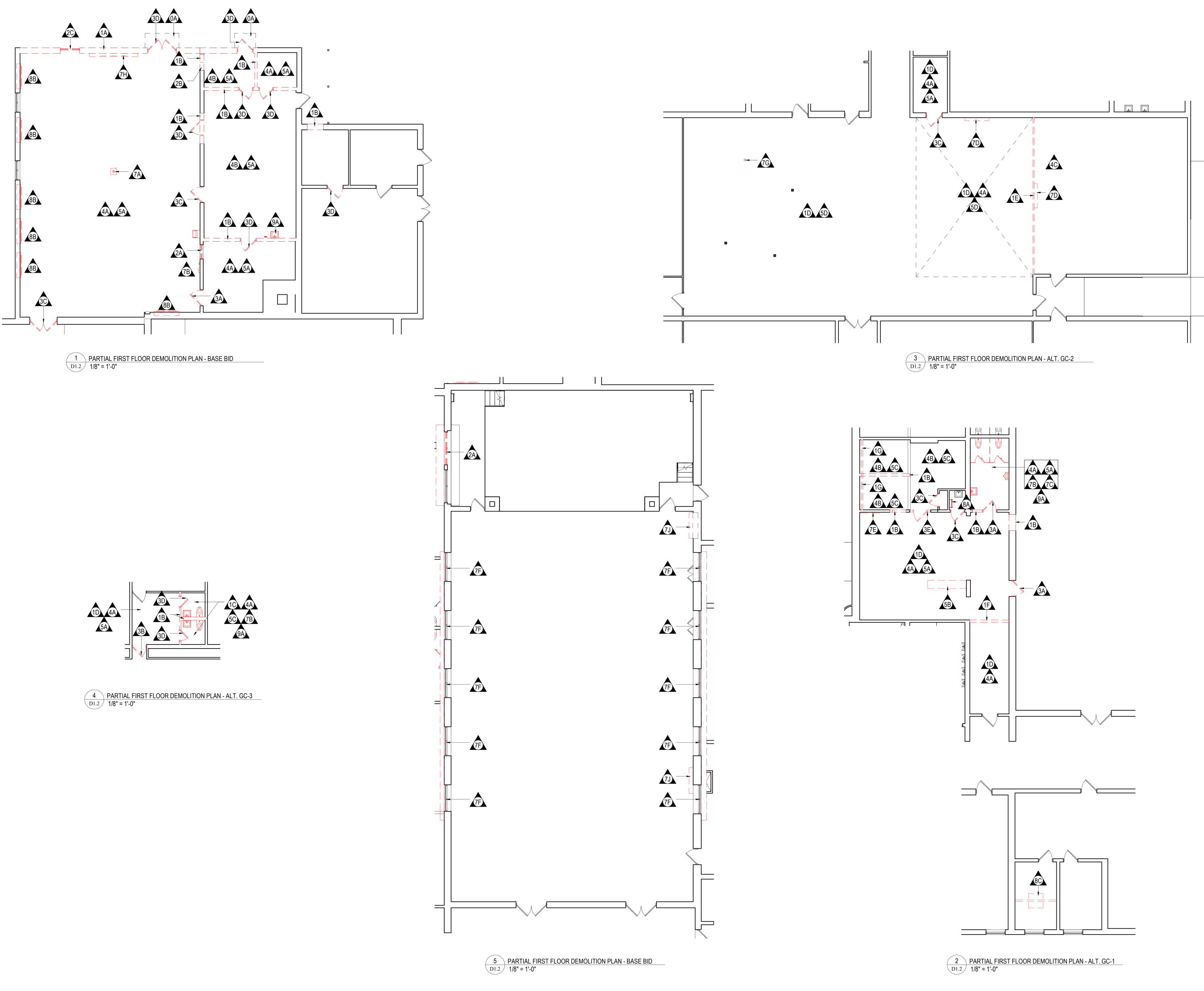


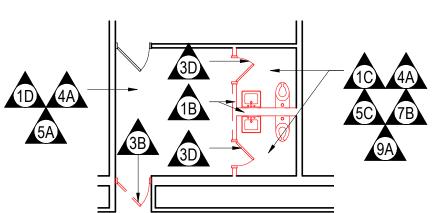




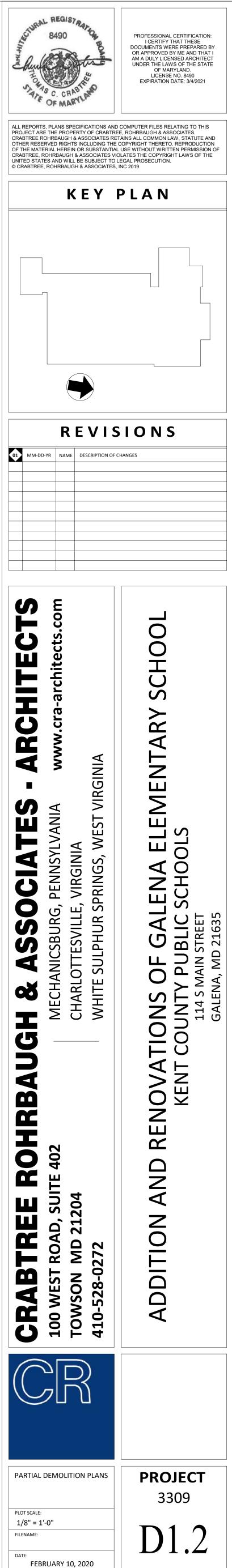
	DEMOLITION LEGEND
TAG	DEMOLITION NOTE
0 - ROOF DEN 0A	AOLITION & RENOVATION REMOVE EXISTING CONCRETE CANOPY STRUCTURE IN ITS ENTIRETY. WHERE EXISTING WALL STRUCTURE IS TO REMAIN PATCH AND
0B	REPAIR SURFACES TO MATCH ADJACENT SURFACES. REMOVE EXISTING ROOF DRAIN BODY AND CAGE IN IT'S ENTIRETY. SEE PLUMBING DEMOLITION DRAWINGS FOR MORE INFORMATION. PREPARE EXISTING TO REMAIN FOR NEW WORK.
0C	REMOVE EXISTING ROOF HATCH AND CURB IN IT'S ENTIRETY DOWN TO BELOW EXISTING ROOF DECK. PATCH OPENING WITH NEW STEEL ROOF DECK. PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK.
0D	REMOVE EXISTING ROOF LADDER AND ALL RELATED COMPONENTS IN ITS ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK.
0E	REMOVE EXISTING ROOFING SYSTEM AND INSULATION IN IT'S ENTIRETY DOWN TO EXISTING ROOF DECK. PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK.
0F	REMOVE EXISTING DOWNSPOUT AND SPLASH BOX IN THEIR ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK.
0G 0H	REMOVE EXISTING GUTTER IN IT'S ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK. REMOVE EXISTING METAL PANEL IN ITS ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK.
OJ	REMOVE AND SALVAGE EXISTING METAL ROOF LADDER. CUT BOTTOM OF LADDER TO WORK WITH NEW ROOF THICKNESS. SAND, REFINISH AND REINSTALL IN SAME LOCATION. PATCH AND PREPARED EXISTING TO REMAIN SURFACE TO RECEIVE NEW WORK.
OK OM	REMOVE EXISTING CHIMNEY IN IT'S ENTIRETY DOWN TO BELOW EXISTING ROOF DECK. PATCH OPENING WITH NEW STEEL ROOF DECK. REMOVE EXISTING SCUPPER BOX AND THRU-WALL SCUPPER AND FLASHING IN IT'S ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK.
0N	REMOVE EXISTING ROOF DECK AND PREPARE FOR NEW ROOF HATCH. SEE ROOF PLAN FOR NEW WORK.
0P	REMOVE EXISTING CURB AND PLENUM ADAPTER CURB, WHERE OCCURS, IN IT'S ENTIRETY DOWN TO BELOW EXISTING ROOF DECK. PATCH OPENING WITH NEW STEEL ROOF DECK EXCEPT WHERE NEW RTU WILL OCCUR. REFER TO MECHANICAL DRAWINGS.
0Q 0R	REMOVE EXISTING LADDER BRACKET IT IN'S ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW WORK. REMOVE EXISTING ROOF MEMBRANE, INSULATION AND EXISTING ROOF DECK IN IT'S ENTIRETY. PREPARE OPENING FOR NEW RTU. REFER
0S	TO MECHANICAL DRAWINGS FOR WORK. REMOVE EXISTING THRU-WALL SCUPPER AND FLASHING IN IT'S ENTIRETY. PATCH AND PREPARE EXISTING TO REMAIN TO RECEIVE NEW
	WORK. IOLITION & RENOVATION
1A	REMOVE EXISTING MASONRY WALL AND ALL ASSOCIATED COMPONENTS IN THEIR ENTIRETY. WHERE WALL CONTINUES BELOW CONCRETE SLAB REMOVE WALL TO A MINIMUM OF 8" BELOW FINISH FLOOR. PATCH AND REPAIR ALL EXISTING SUBSTRATES AND ADJACENT SURFACES TO REMAIN TO MATCH EXISTING.
1B	REMOVE PORTION OF EXISTING MASONRY WALL AND ALL RELATED COMPONENTS, WHERE WALL CONTINUES BELOW CONCRETE SLAB, REMOVE WALL TO A MINIMUM OF 8" BELOW FINISH FLOOR. PATCH AND REPAIR ALL EXISTING SUBSTRATES AND ADJACENT SURFACE TO REMAIN TO MATCH EXISTING.
1C	REMOVE CERAMIC TILE WAINSCOT FINISH AND WALL BASE DOWN TO EXISTING SUBSTRATE. PREPARE SURFACE TO RECEIVE NEW SCHEDULED FINISH.
1D 1E	REMOVE EXISTING VINYL / RUBBER BASE. PATCH AND REPAIR TO MATCH EXISTING. PREPARE SURFACE FOR NEW SCHEDULED FINISH. REMOVE EXISTING WALL PARTITION AND ALL ASSOCIATED COMPONENTS IN THEIR ENTIRETY. PATCH AND REPAIR ALL EXISTING SUBSTRATES AND ADJACENT SURFACES TO REMAIN TO MATCH EXISTING.
1F 1G	SAW CUT AND REMOVE PORTION OF EXISTING MASONRY WALL AND ALL RELATED COMPONENTS IN OR TO RECEIVE NEW CONSTRUCTION. REFER TO GENERAL RENOVATION NOTES. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE EXISTING MARBLE PLUMBING CHASE IN IT'S ENTIRETY.
2 - WINDOW [2A	DEMOLITION & RENOVATION REMOVE EXISTING WINDOW IN ITS ENTIRETY INCLUDING ALL HARDWARE, TRIM, SEALANT AND RELATED COMPONENTS. PATCH AND
	REPAIR MASONRY OPENING, EXISTING SUBSTRATES AND ADJACENT SURFACES TO REMAIN TO MATCH EXISTING FINISHES AND PREPARE FOR NEW SCHEDULED WORK AS INDICATED.
2B	REMOVE EXISTING COILING WINDOW IN ITS ENTIRETY INCLUDING ALL HARDWARE, TRIM, SEALANT AND RELATED COMPONENTS. PATCH AND REPAIR MASONRY OPENING, EXISTING SUBSTRATES AND ADJACENT SURFACES TO REMAIN TO MATCH EXISTING FINISHES AND PREPARE FOR NEW SCHEDULED WORK AS INDICATED.
2C 3 - DOOR DEI	REMOVE EXISTING WINDOW IN ITS ENTIRETY INCLUDING ALL HARDWARE, TRIM, SEALANT AND RELATED COMPONENTS. MOLITION & RENOVATION
3A	REMOVE EXISTING DOOR, FRAME AND ALL RELATED COMPONENTS. PREP EXISTING MASONRY OPENING TO RECEIVE INFILL. REFER TO GENERAL RENOVATION NOTES FOR PROPER PATCH/INFILL REPAIR INFORMATION.
3B	REMOVE EXISTING DOOR, FRAME AND ALL RELATED COMPONENTS IN ORDER TO RECEIVE NEW CONSTRUCTION AND FINISHES AS INDICATED.
3C 3D	REMOVE EXISTING DOOR. EXISTING FRAME TO REMAIN. PREP FRAME TO RECEIVE NEW DOOR. REMOVE EXISTING DOOR, FRAME AND ALL RELATED COMPONENTS IN ITS ENTIRETY.
3E	REMOVE EXISTING INTERAL DOOR, FRAME AND INFILL PANEL. EXISTING OUTER FRAME TO REMAIN. REPAIR EXISTING FRAME TO RECEIVE NEW FINISH.
4 - CEILING D 4A	EMOLITION & RENOVATION REMOVE EXISTING ACT IN ITS ENTIRETY INCLUDING ALL FRAMING AND SUSPENSION COMPONENTS SO THAT STRUCTURAL SYSTEM IS
4B	COMPLETELY EXPOSED. PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO MATCH EXISTING. REMOVE EXISTING PLASTER CEILING ITS ENTIRETY INCLUDING ALL FRAMING AND SUSPENSION COMPONENTS SO THAT STRUCTURAL SYSTEM IS COMPLETELY EXPOSED. PATCH AND REPAIR EXISTING ADJACENT SURFACES TO REMAIN TO MATCH EXISTING.
	REMOVE POTION OF EXISTING CEILING AS REQUIRED FOR INSTALLATION OF NEW WALL PARTITION.
5 - FLOOR DE 5A	MOLITION & RENOVATION REMOVE EXISTING VCT FLOORING SYSTEM DOWN TO EXISTING SUBSTRATE. PATCH AND REPAIR SURFACE TO RECEIVE NEW SCHEDULED FINISH.
5B	REMOVE EXISTING CONCRETE SLAB TO BE FLUSH WITH FINISH FLOOR LINE. PATCH AND REPAIR SURFACE TO RECEIVE NEW SCHEDULED FINISH.
5C	REMOVE CERAMIC TILE FLOORING DOWN TO EXISTING SETTING BED. PREPARE EXISTING SURFACE FOR NEW SCHEDULED FINISH.
5D 7 - EQUIPMEN	REMOVE EXISTING CARPET FLOORING DOWN TO EXISTING SLAB. PREPARE EXISTING SURFACE FOR NEW SCHEDULED FINISH. NT DEMOLITION & RENOVATION
7A 7B	REMOVE AND RELOCATE EXISTING PROJECTOR, MOUNTING BRACKETS AND ALL RELATED COMPONENTS IN THEIR ENTIRETY. REMOVE EXISTING TOILET ROOM ACCESSORIES INCLUDING BUT NOT LIMITED TO DISPENSERS, MIRRORS, SHELVES, GRAB BARS AND ETC. PREPARE REMAINING SURFACE FOR NEW CONSTRUCTION & FINISHES AS SCHEDULED.
7C	REMOVE EXISTING TOILET PARTITIONS, ANCHORS, AND ALL RELATED COMPONENTS IN THEIR ENTIRETY. REFER TO RENOVATION NOTES FOR PROPER PATCH / REPAIR INFORMATION.
7D 7E	REMOVE AND RELOCATE EXISTING PARMETHIAN BOARD AND ALL RELATED COMPONENTS. REMOVE EXISTING CHALKBAORDS AND ALL RELATED COMPONENTS. PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO PREPARE
7E 7F	REMOVE EXISTING CHALKBAORDS AND ALL RELATED COMPONENTS. PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO PREPARE FOR NEW SCHEDULED FINISHES. REMOVE EXISTING WINDOW LOUVER SYSTEM AND ALL COMPONENTS IN IT'S ENTIRETY. PATCH AND REPAIR EXISTING SURFACES TO
7G	MATCH ADJACENT SURFACES AND PREPARE FOR NEW CONSTRUCTION. REMOVE EXISTING POWER POLE IN ITS ENTIRETY. PATCH AND REPAIR EXISTING SURFACES TO REMAIN TO MATCH EXISTING.
7H	REMOVE AND SALVAGE EXISTING PROJECTOR SCREEN, MOUNTING BRACKETS AND ALL RELATED COMPONENTS IN THEIR ENTIRETY AND TURN OVER TO OWNER.
	REMOVE EXISTING INTERIOR METAL LOUVER SYSTEM IN IT'S ENTIRETY. PREPARE FOR NEW WORK.
8 - MISCELLA 8A	NEOUS SPECIALTIES DEMOLITION & RENOVATION REMOVE EXISTING WALL MOUNTED ROOF LADDER. PATCH AND REPAIR EXISTING TO RECEIVE NEW WORK.
8B	REMOVE EXISTING WOOD TRIM IN ITS ENTIRETY. PATCH AND REPAIR EXISTING SURFACES TO MATCH ADJACENT SURFACES AND PREPARE FOR NEW CONSTRUCTION.
8C	REMOVE AND RELOCATE EXISTING SWING. PATCH AND REPAIR ALL EXISTING SUBSTRATES AND ADJACENT SURFACES TO REMAIN TO MATCH EXISTING. SEE I4 DRAWING FOR NEW LOCATION.
9 - MEP 9A	REMOVE EXISTING PLUMBING FIXTURES IN THEIR ENTIRETY, INCLUDING LAVATORIES, SINKS, TOILETS, URINALS, MOP BASINS, DRINKING
	FOUNTAINS/WATER COOLERS, FAUCETS, HOSE BIBBS & SIMILAR ITEMS, INCLUDING ASSOCIATED PIPING, CARRIERS/SUPPORTS, ETC. CAP WATER AND WASTE PIPING BEYOND WALL SURFACE TO ALLOW FOR NEW CONSTRUCTION / EQUIPMENT & FINISHES TO OCCUR, UNLESS NOTED OTHERWISE. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR FULL EXTENT OF DEMOLITION.

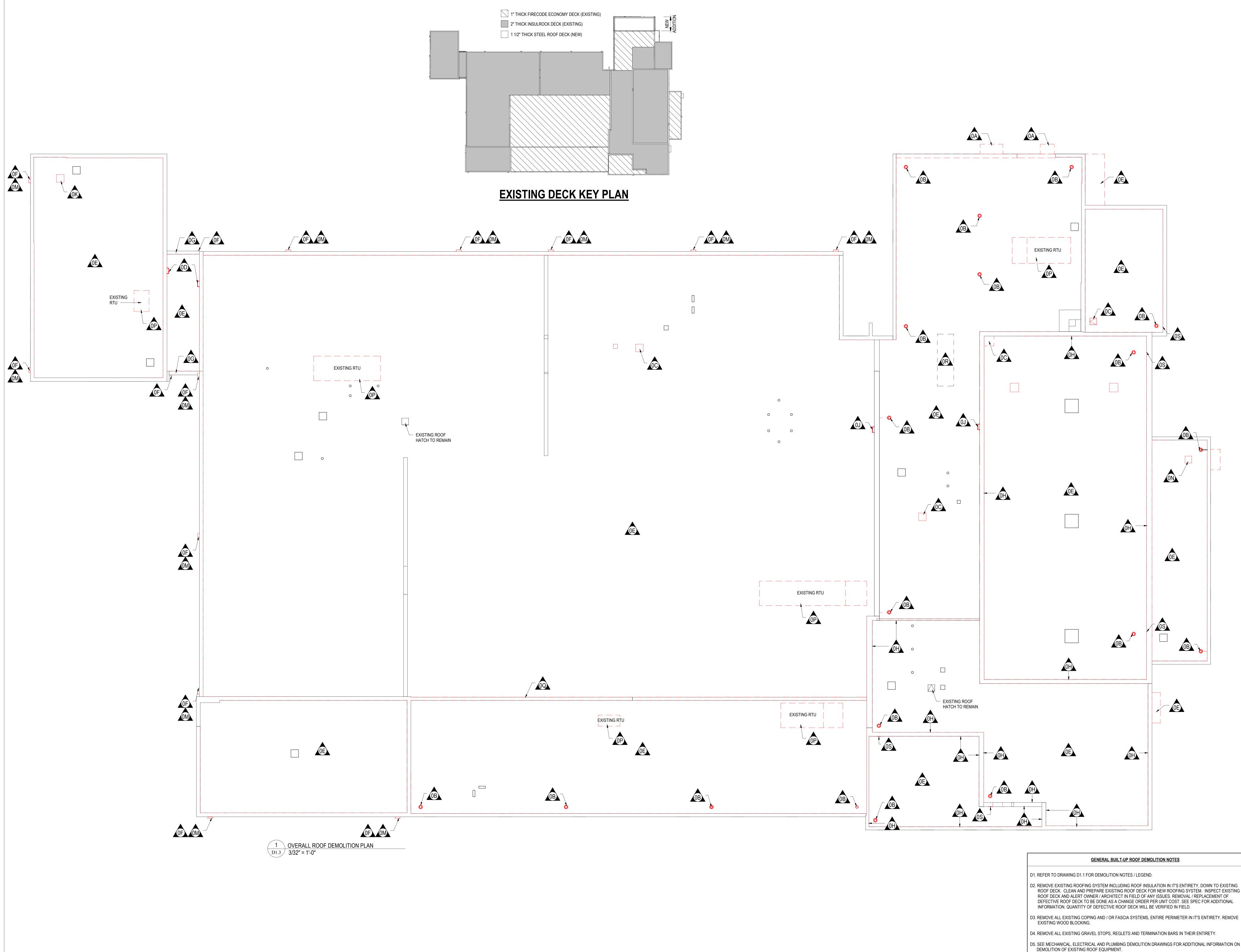












AND BASE FLASHING.

ROOF DECK. CLEAN AND PREPARE EXISTING ROOF DECK FOR NEW ROOFING SYSTEM. INSPECT EXISTING DEFECTIVE ROOF DECK TO BE DONE AS A CHANGE ORDER PER UNIT COST. SEE SPEC FOR ADDITIONAL

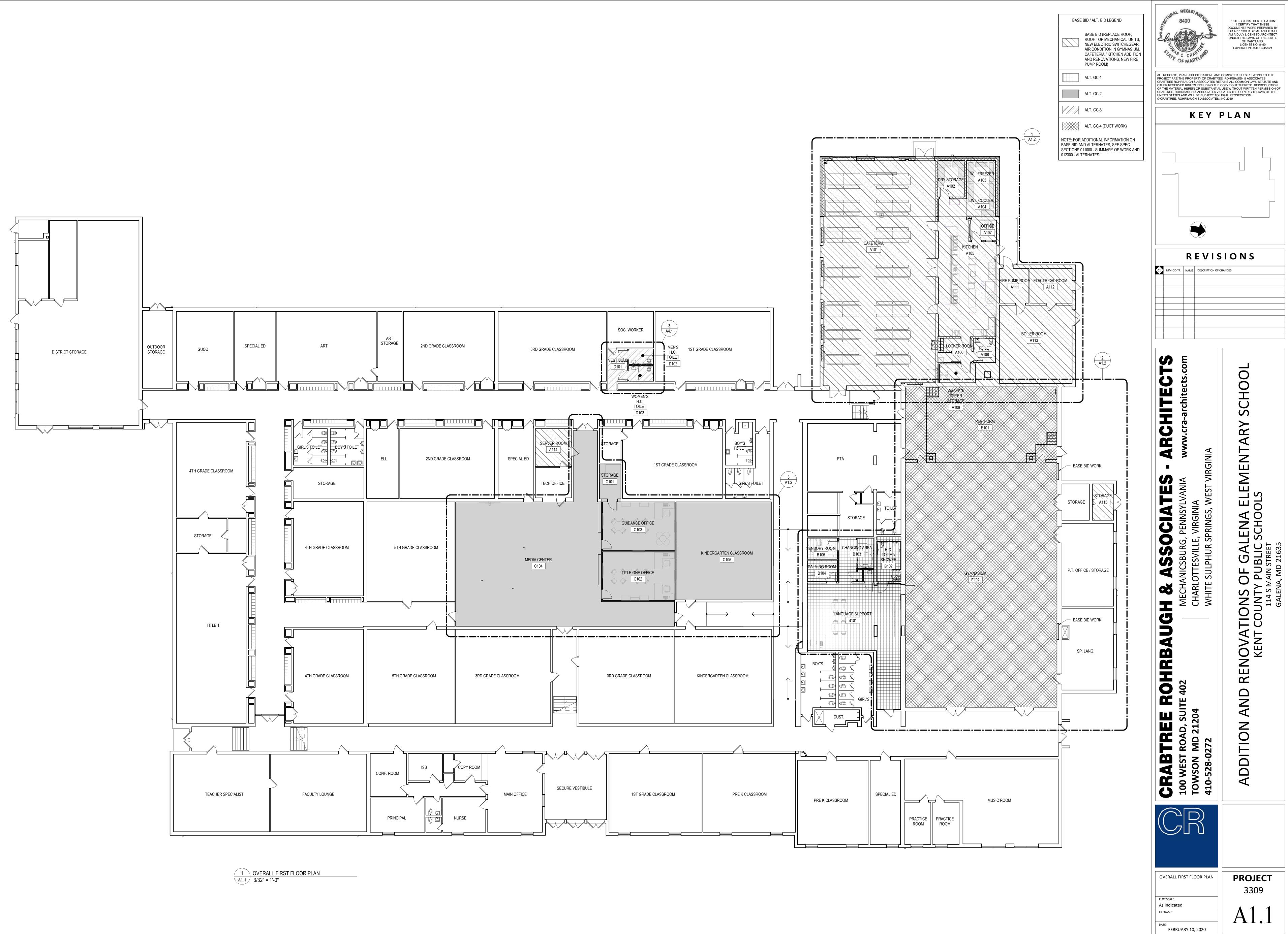
D5. SEE MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION ON

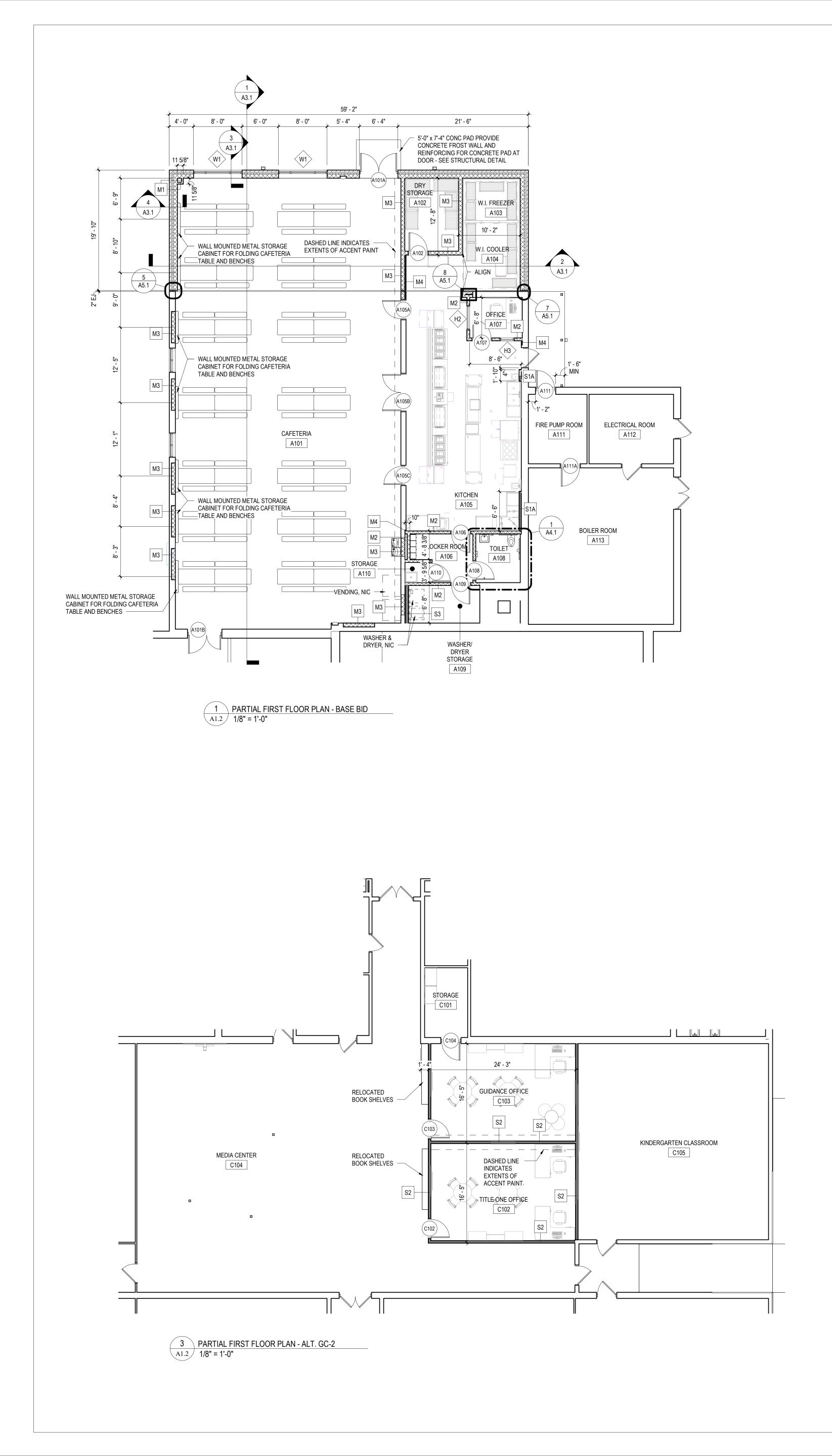
D6. WHERE EXISTING LIGHT FIXTURES AND CONDUIT ARE ATTACHED TO EXISTING PARAPETS REMOVE AND RE-INSTALL IN SAME LOCATIONS AFTER INSTALLATION OF NEW ROOFING SYSTEM AND COPINGS.

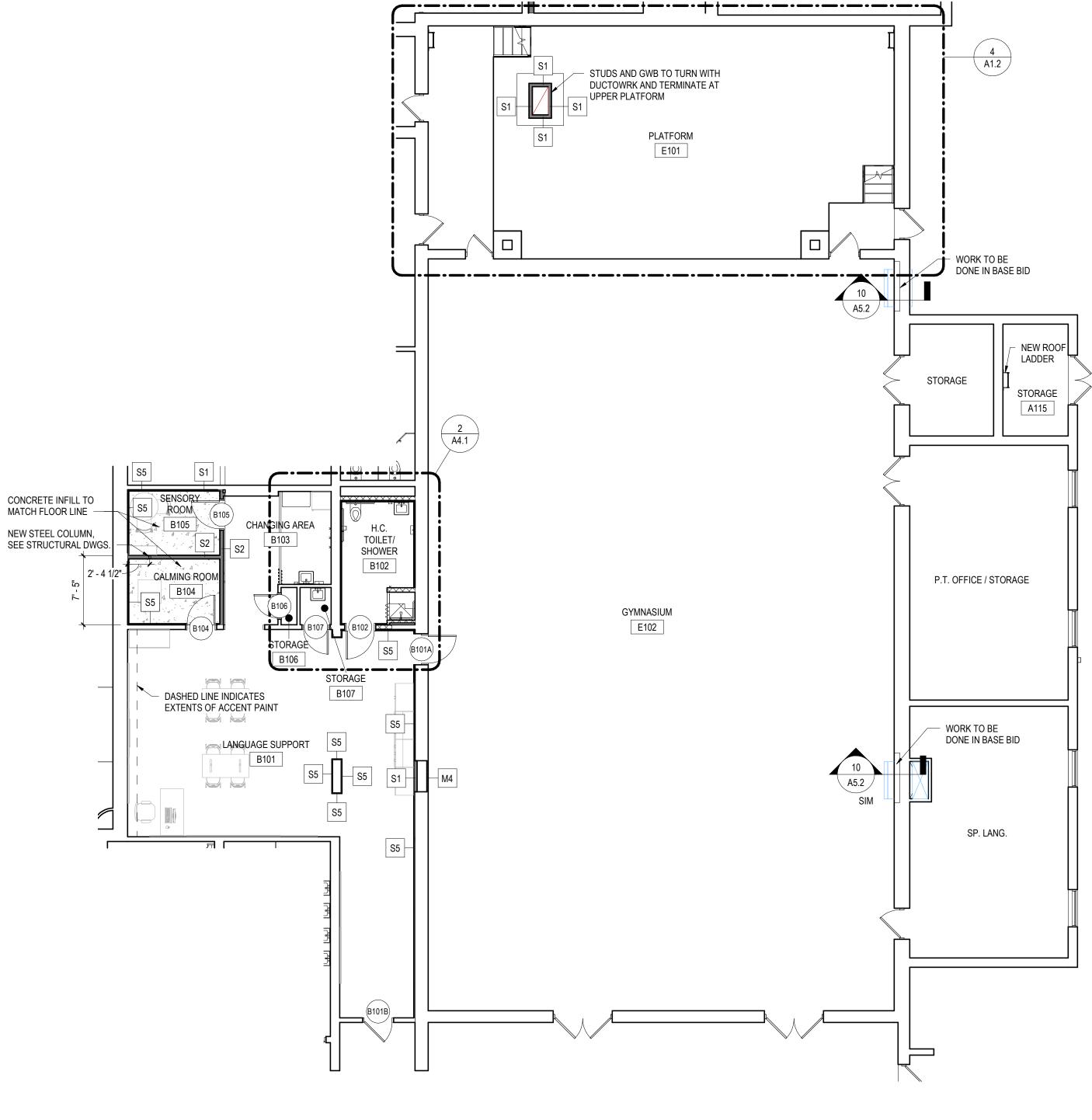
D7. REMOVE ALL THROUGHWALL SUPPERS AND OVERFLOW SCUPPERS IN THEIR ENTIRETY. PREP SURFACES TO RECEIVE NEW METAL SCUPPERS AND ROOFING SYSTEMS AND BASE FLASHINGS.

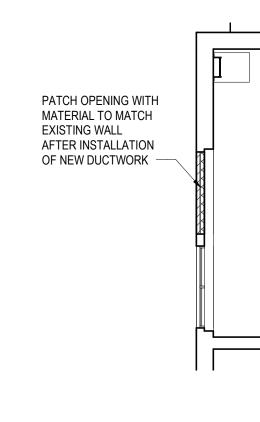
D8.REMOVE ALL METAL WALL PANELS AT PARAPETS AND PREP SURFACE TO RECEIVE NEW ROOFING SYSTEM







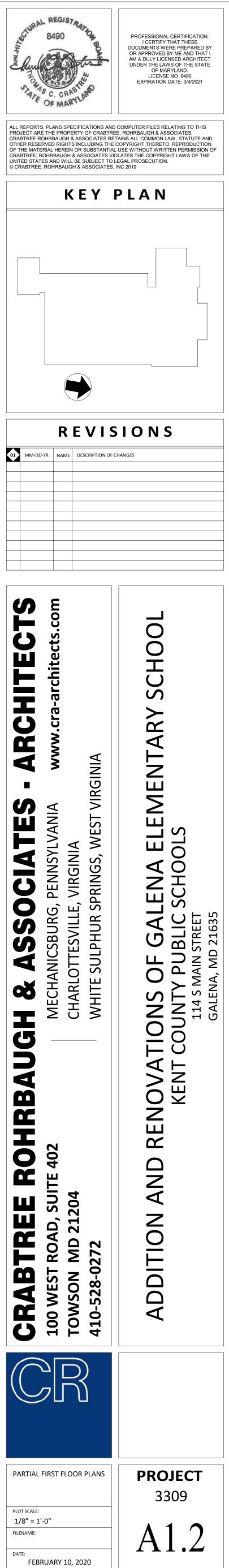


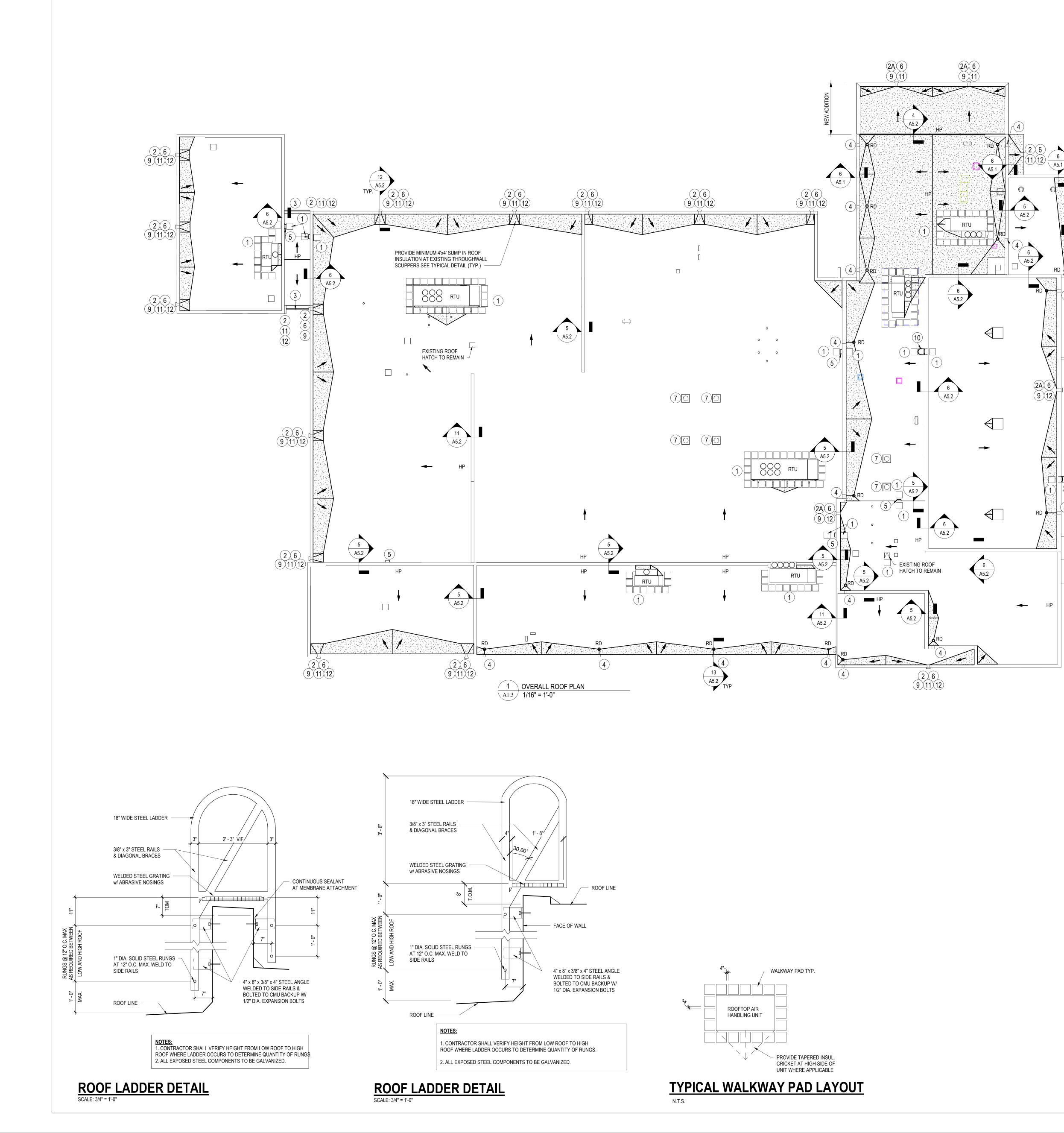


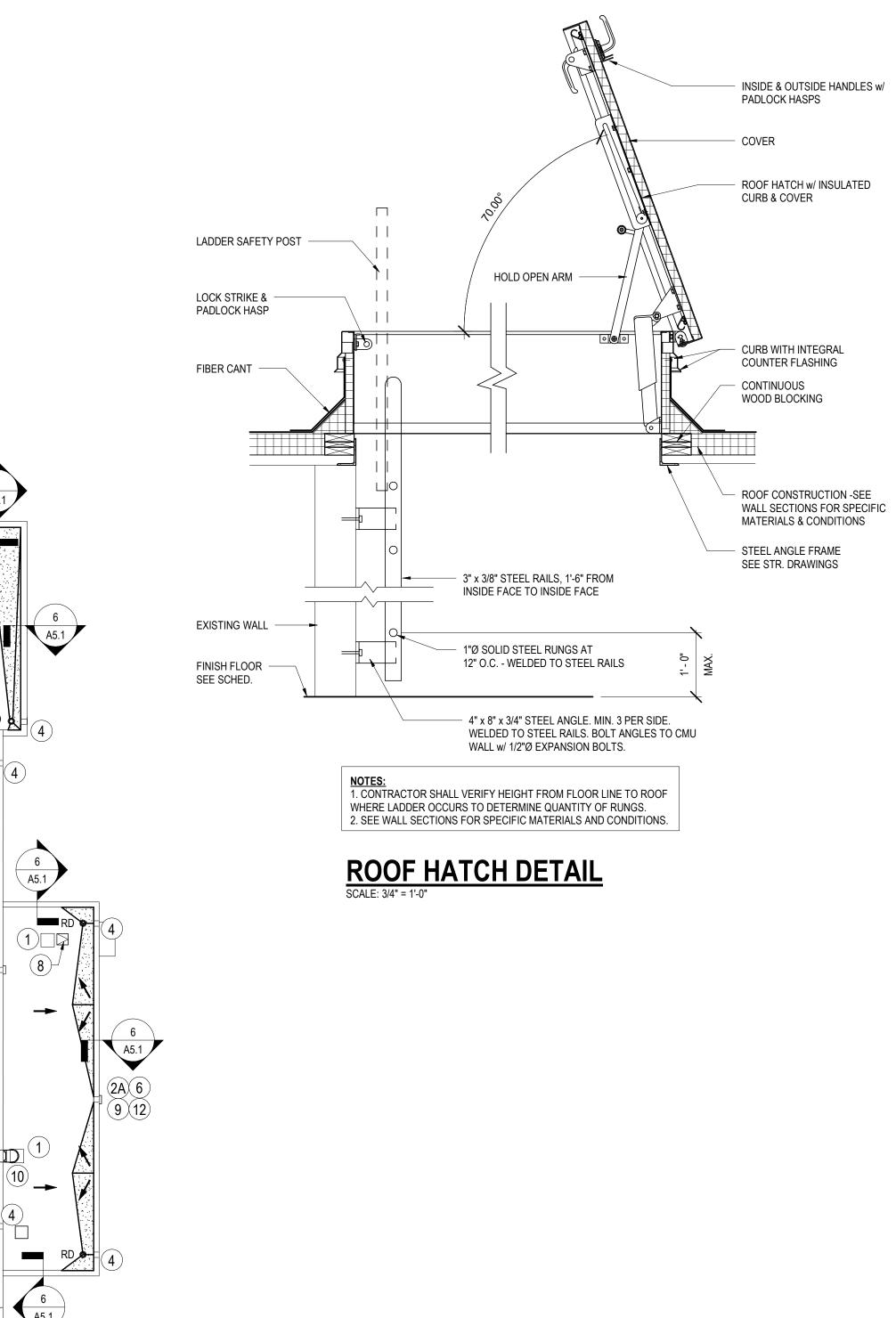
4 UPPER LEVEL PLAN A1.2 1/8" = 1'-0"

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	PLATFORM E101		

2 PARTIAL FIRST FLOOR PLAN - ALT. GC-1 / GC-4 A1.2 1/8" = 1'-0"







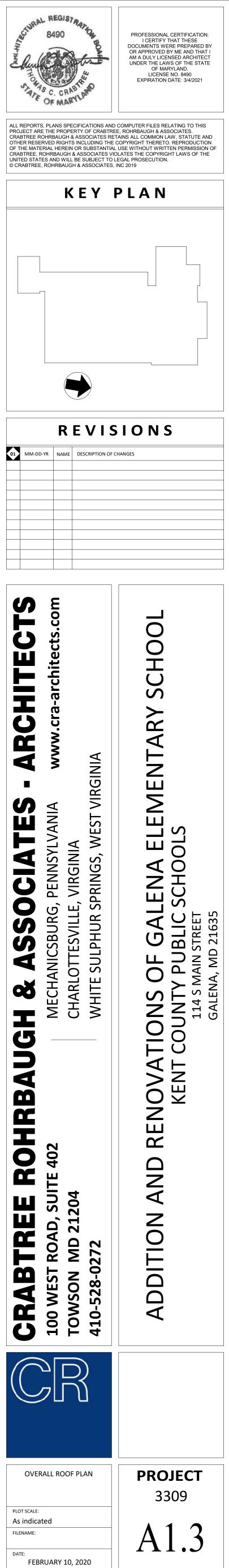
LEGEND	ROOF PLAN NOTES:
(1) WALKWAY PADS	1. COORDINATE ROOF MOUNTED EQUIPMENT AND PENETRATIONS WITH MEP DRAWINGS.
2 4"X6" METAL DOWNSPOUT	2. UTILIZE ROOF MANUFACTURER'S STANDARD DETAILS FOR ALL PENETRATIONS AND ROOF CURBS AND PROVIDE FLASHING, COPINGS, FASCIA'S, ETC. IN ORDER FOR THE ROOF MANUFACTURER TO PROVIDE A ROOF WARRANTY FOR THE PROJECT.
(2A) 4"X5" METAL DOWNSPOUT	
3 METAL GUTTER	3. CRICKETS AND SADDLES SHALL HAVE A MINIMUM OF TWO TIMES THE SLOPE OF THE PRIMARY TAPERED SYSTEM OR STRUCTURAL SLOPE.
4 OVERFLOW THRU-WALL SCUPPER	4. CURBS FOR ROOF MOUNTED MECHANICAL EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR INSTALLING THE EQUIPMENT. FLASHINGS, ETC. FOR ROOF CURBS TO
(5) WALL LADDER WITH PLATFORM AND	BE PROVIDED BY THE ROOFING CONTRACTOR.
6 SCUPPER BOX	5. WHERE PROVIDING NEW METAL THROUGH WALL SCUPPERS AT EXISTING THROUGH WALL METAL SCUPPER OPENINGS, PROVIDE 4'-0" X 4'-0" SUMP IN BASE ROOF
TUBULAR DAYLIGHTING DEVICE	INSULATION AT EACH SCUPPER LOCATION IN ORDER FOR WATER TO DRAIN TO DOWNSPOUTS. SEE ROOF PLAN FOR LOCATIONS.
8 36" X 36" ROOF HATCH	6. ROOF DRAINS INDICATED ARE EXISTING LOCATIONS. REPLACE ALL ROOF DRAINS AND STRAINERS. PLUMBING CONTRACTOR WILL PROVIDE ROOF DRAINS FOR ROOFING CONTRACTOR TO INSTALL WITH ROOFING SYSTEM. PLUMBING CONTRACTOR TO
9 THRU-WALL SCUPPER	PROVIDE PIPE EXTENSIONS IN ORDER TO RAISE ROOF DRAINS WITH NEW INSULATION THICKNESS. FINAL CONNECTIONS OF INTERNAL PIPING TO ROOF DRAINS TO BE DONE BY THE PLUMBING CONTRACTOR.
(10) ROOF LADDER WITH PASS THROUGH	
AND CAGE (11) CAST IRON DOUWNSPOUT SHOE	7. WHERE EXISTING STEEL ROOF LADDERS ARE TO REMAIN, REMOVE LADDER AND PATCH EXISTING HOLES WHERE ANCHORS OCCURRED. TAKE LADDERS TO SHOP AND SAND SMOOTH REMOVING ANY RUST, ETC. PROVIDE PRIMER AND FINISH PAINT COATS IN SHOP. BECAUSE OF THE ADDED ROOF INSULATION, THE LADDERS WILL
12 PRECAST SPLASH BLOCK	NEED NEW HOLES AND EXPANSION ANCHORS. TOUCH-UP PAINT LADDERS AND ANCHORS IN FIELD USING PRIMER AND FINISH COATS.
LP LOW POINT	8. WHERE EXISTING ROOF HATCHES, EXHAUST HOODS, PIPING, CONDUITS, ETC. ARE TO REMAIN, REMOVE EXISTING INTEGRAL CURBS TO EQUIPMENT AND RE-SET ON EXTENDED CURBS. EXTENDED CURBS TO BE PROVIDED BY RESPECTIVE
HP HIGH POINT	CONTRACTORS. ADDITIONAL DUCTWORK, PIPING, CONDUIT, ETC. TO ALSO BE
OD OVERFLOW DRAIN	PROVIDED BY RESPECTIVE CONTRACTORS. ROOFING CONTRACTOR TO PROVIDE FLASHINGS IN ACCORDANCE WITH ROOFING MANUFACTURER'S STANDARD DETAILS.
	G.C. TO COORDINATE ALL WORK AND IS RESPONSIBLE FOR ANY WORK NOT INCLUDED
	BY RESPECTIVE CONTRACTORS AS THEY ARE RESPONSIBLE FOR A COMPLETE JOB.
INDICATES BUILT-UP ROOF SYSTEM WITH RIGID INSULATION STRUCTURALLY SLOPED	9. IT IS ASSUMED THAT ALL EXISTING WOOD BLOCKING AND NAILERS WILL HAVE TO BE REPLACED. IF WHEN DEMOLISHING THE EXISTING ROOF IT IS DETERMINED THAT SOME OR ALL OF THE EXISTING WOOD BLOCKING AND NAILERS CAN BE REUSED, THE CONTRACTOR TO PROVIDE A CREDIT TO THE OWNER FOR NOT HAVING TO REPLACE THE WOOD BLOCKING AND NAILERS.
INDICATES AREAS WITH TAPERED INSULATION	10. ALL CONDENSATE PIPING FROM ROOFTOP UNITS TO EXTEND TO EXISTING ROOF DRAIN AND THROUGHWALL SCUPPER LOCATIONS.

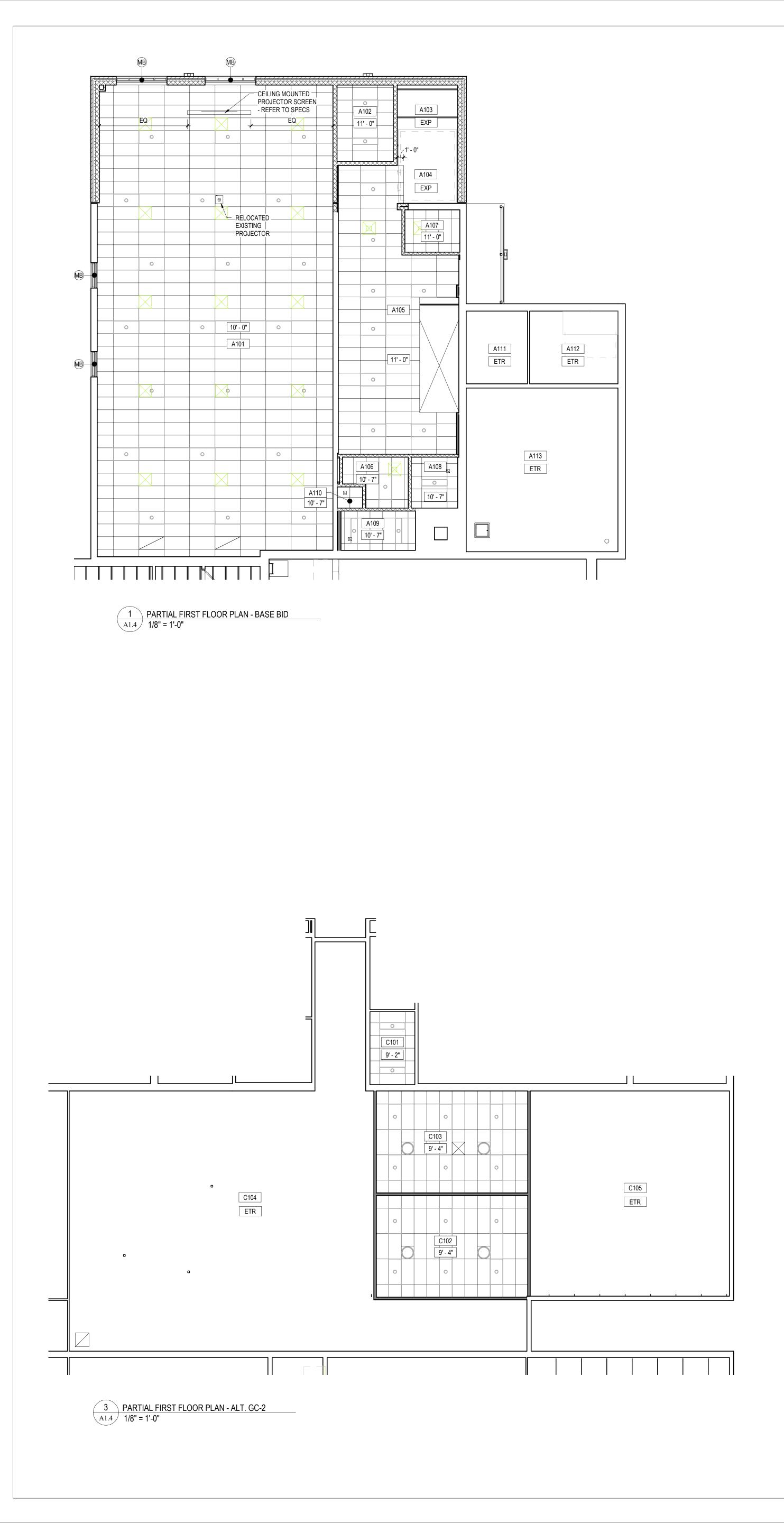


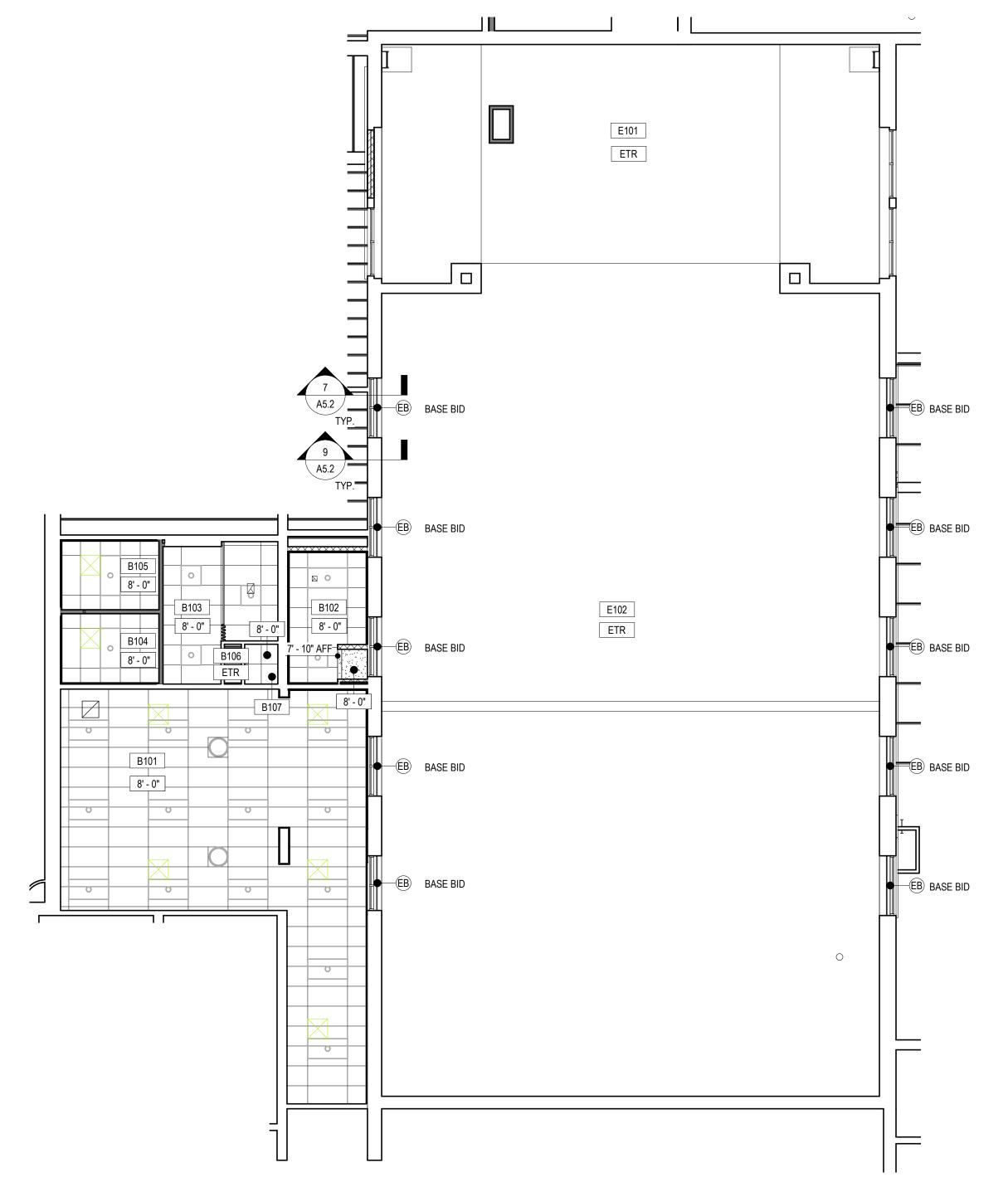




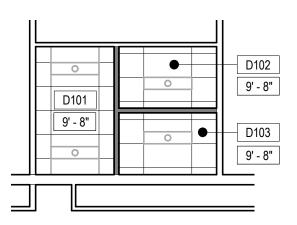














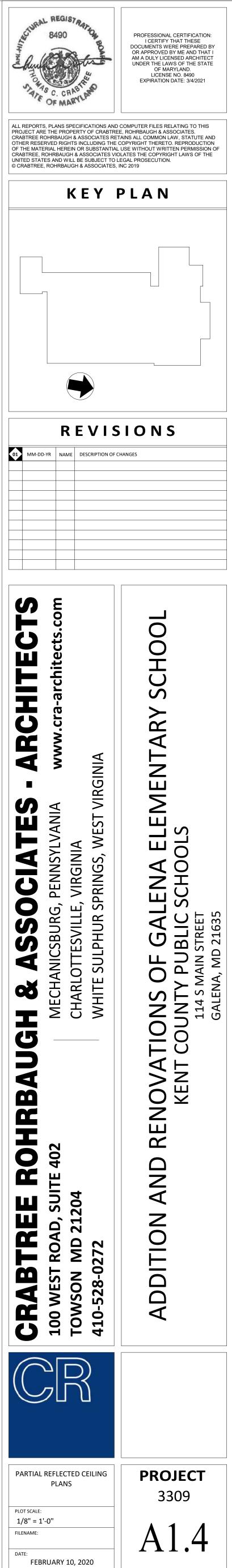
2. CEILING GRID SHALL BE COORDINATED WITH MEP EQUIPMENT AND DEVICES.	2' X 4' SUSPENDED CEILING SYSTEM		2' X 4' LIGHT FIXTURE 1' X 4' LIGHT FIXTURE
3. UNLESS NOTED OTHERWISE, ALL VISIBLE STRUCTURAL STEEL, ROOF/ FLOOR DECK, DUCTWORK, PIPING, CONDUIT, HANGER WIRES, ETC. AT EXPOSED LOCATIONS OR ABOVE CEILING CLOUDS SHALL BE PAINTED. I. REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.	2' X 4' SECOND LOOK SUSPENDED		2' X 2' LIGHT FIXTURE
5. ALL VISIBLE HANGER WIRES, STRUCTURE AND BRACING AT EXPOSED CEILING GRID OR CEILING CLOUD OCATIONS SHALL BE INSTALLED PLUMB AND LEVEL.	CEILING SYSTEM		SEE MEP DRAWINGS
D. FOR WINDOWS THAT REQUIRE TWO OR MORE ROLLER SHADES, EACH ROLLER SHADE SHALL TERMINATE AT THE CENTER OF THE WINDOW MULLION. REFER TO HOLLOW METAL AND ALUMINUM FRAME ELEVATIONS FOR FOR DIMENSIONS AND WINDOW MULLION DESIGN AND ROLLER SHADE BRAKES.	2' X 2' SUSPENDED CEILING SYSTEM		SEE MEP DRAWINGS
		\bigcirc	RECESSED DOWN LIGHT
	GYPSUM WALLBOARD	\oplus	PENDANT LIGHT FIXTURES
	LINEAR METAL SOFFIT	M	TUBULAR DAYLIGHT DEVICE ROLLER SHADE - MANUAL
			ROLLER SHADE - MANUAL BLACKOUT W/ DUAL
	STEEL LINTEL - PAINTED	E	ROLLER ROLLER SHADE - MOTORIZED
		EB	ROLLER SHADE - MOTORIZED BLACKOUT W/ DUAL ROLLER

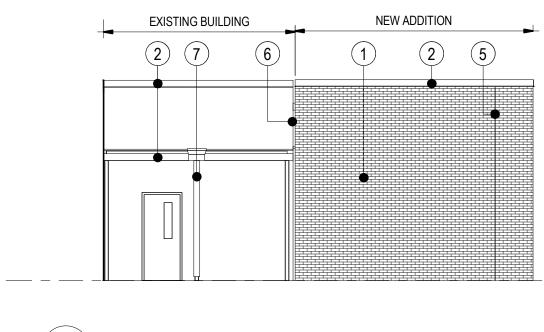
REFLECTED CEILING PLAN GENERAL NOTES:

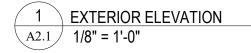
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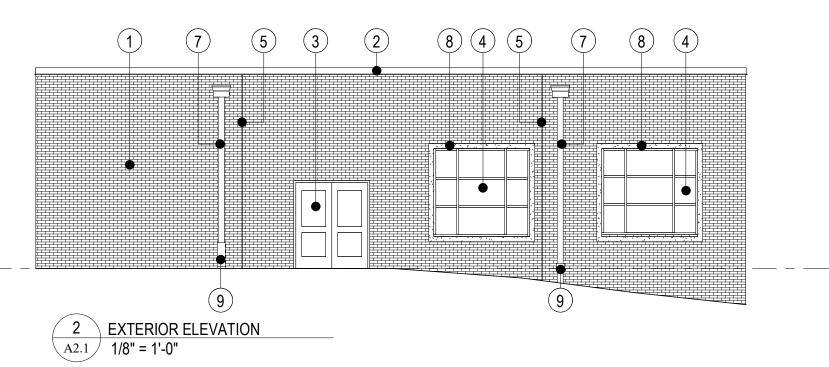
<u>LEGEND</u>

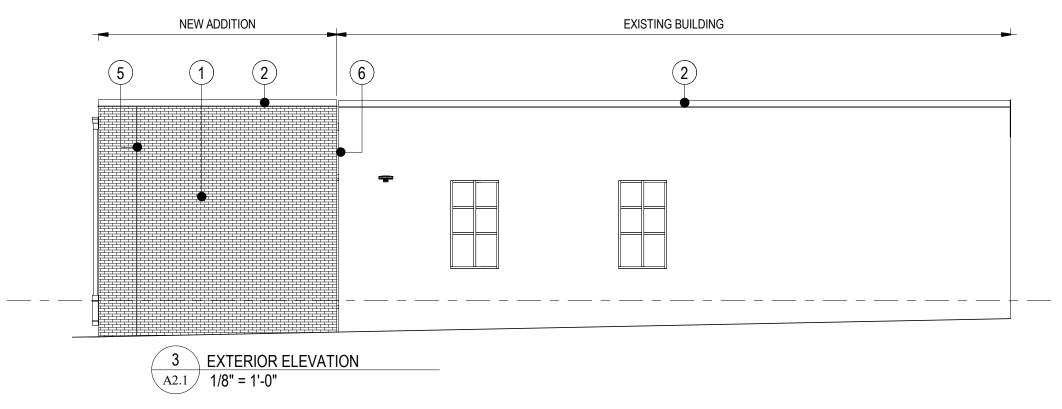
X 4' LIGHT FIXTURE	





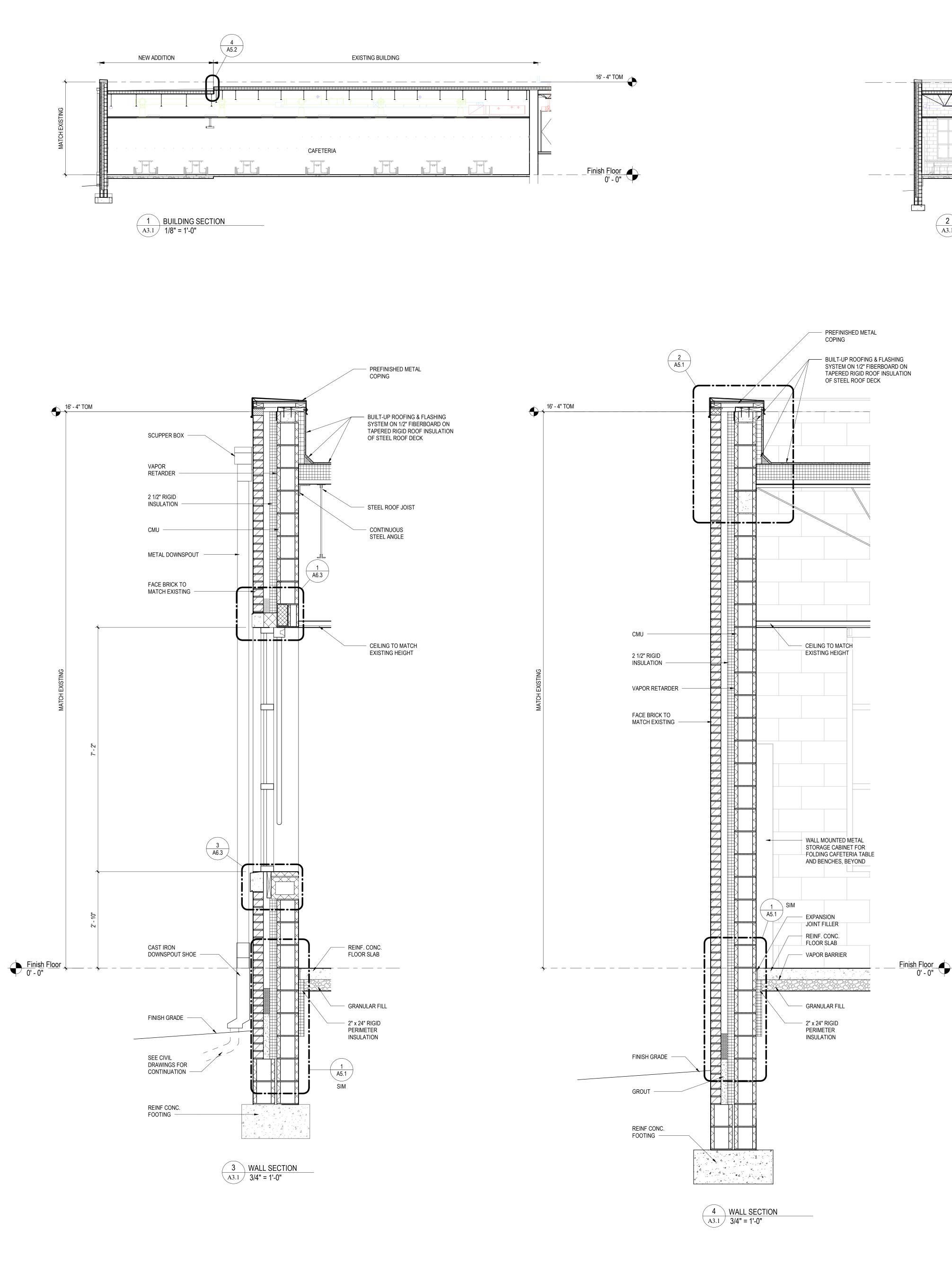






	ELEVATION LEGEND
TAG	ELEVATION NOTE
1	FACE BRICK TO MATCH EXISTING
2	METAL COPING
3	1" INSULATED GLASS IN ALUMINUM ENTRANCE DOORS IN THERMALLY BROKEN ALUMINUM FRAME
4	1" INSULATED GLASS IN THERMALLY BROKEN ALUMINUM STOREFRONT
5	CONTROL JOINT
6	1" EXPANSION JOINT
7	DOWNSPOUT AND SCUPPER BOX
8	ARCHITECTURAL PRECAST
9	CAST IRON DOWNSPOUT SHOE W/ POWDER COATING



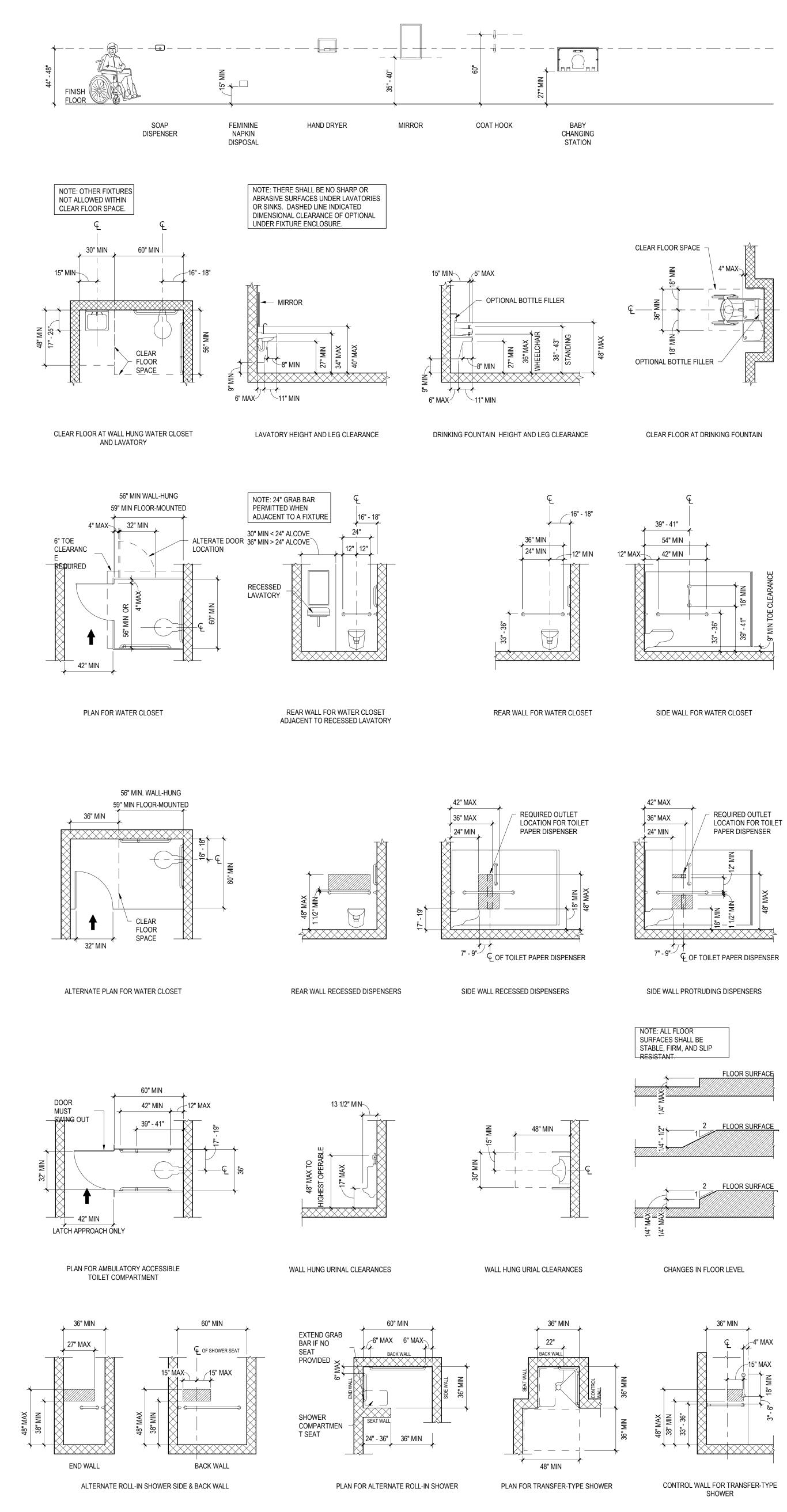


ING SECTION		

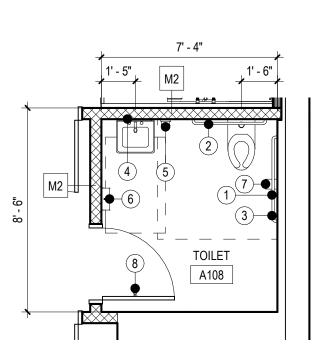
 16' - 4"	ТОМ	¢	

____Finish Floor 0' - 0"

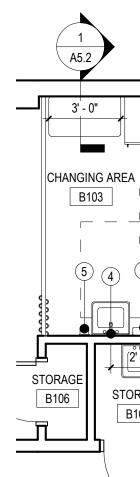




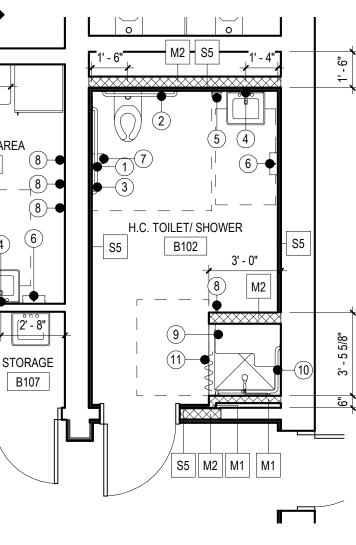
ACCESSIBILITY STANDARDS NOT TO SCALE



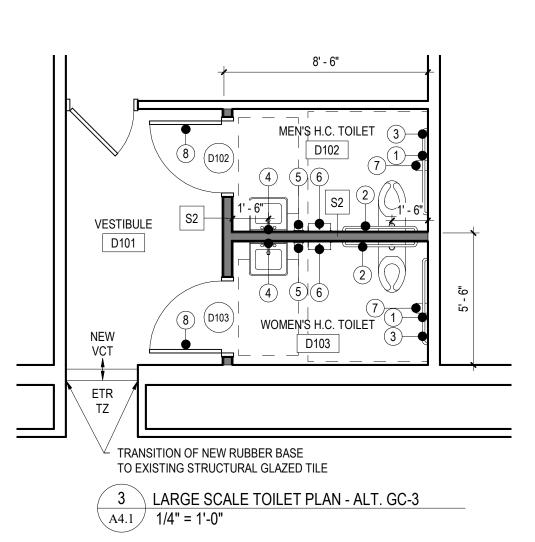
1LARGE SCALE TOILET PLAN - BASE BIDA4.11/4" = 1'-0"



lo. DESCRIPTION	MOUNTING	MANUFACTURE	ER MODEL
18" GRAB BAR (VERTICAL)	39" MIN - 41" MAX AFF TO BOTTOM OF GRAB BAR	BOBRICK	B-5806 x 18
36" GRAB BAR (HORIZONTAL)	33" MIN - 36" MAX AFF TO TOP OF GRIPPING SURFACE	BOBRICK	B-5806 x 36
42" GRAB BAR (HORIZONTAL)	33" MIN - 36" MAX AFF TO TOP OF GRIPPING SURFACE	BOBRICK	B5806 x 42
MIRROR 18" x 30" w/ SS FRAME	40" AFF TO BOTTOM EDGE OF REFLECTING SURFACE	BOBRICK	B-165 (1830)
SURFACE MOUNTED SOAP DISPENSER	PUSH BUTTON @ 44" MAX AFF	BOBRICK	B-2111
SURFACE MOUNTED PAPER TOWEL DISPENSER	48" MAX TO OUTLET OF DISPENSER	OWNER PROVIDED, GC INST	ALLED
SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	TISSUE ACCESS @ 19" MIN AFF	OWNER PROVIDED, GC INST	ALLED
SURFACE MTD. S.S. COAT HOOK	48" AFF TO TOP	BOBRICK	B-6827
FOLDING SHOWER SEAT w/ PADDED CUSHION	18" AFF TO TOP	BOBRICK	B-517, B-518
GRAB BAR FOR 36" x 36" SHOWER STALL	33" MIN - 36" MAX AFF TO TOP OF GRIPPING SURFACE	BOBRICK	B-6861
SS SHOWER ROD, VINYL SHOWER CURTAIN & SS SHOWER CURTAIN HOOKS	COORDINATE WITH SHOWER UNIT	-	-



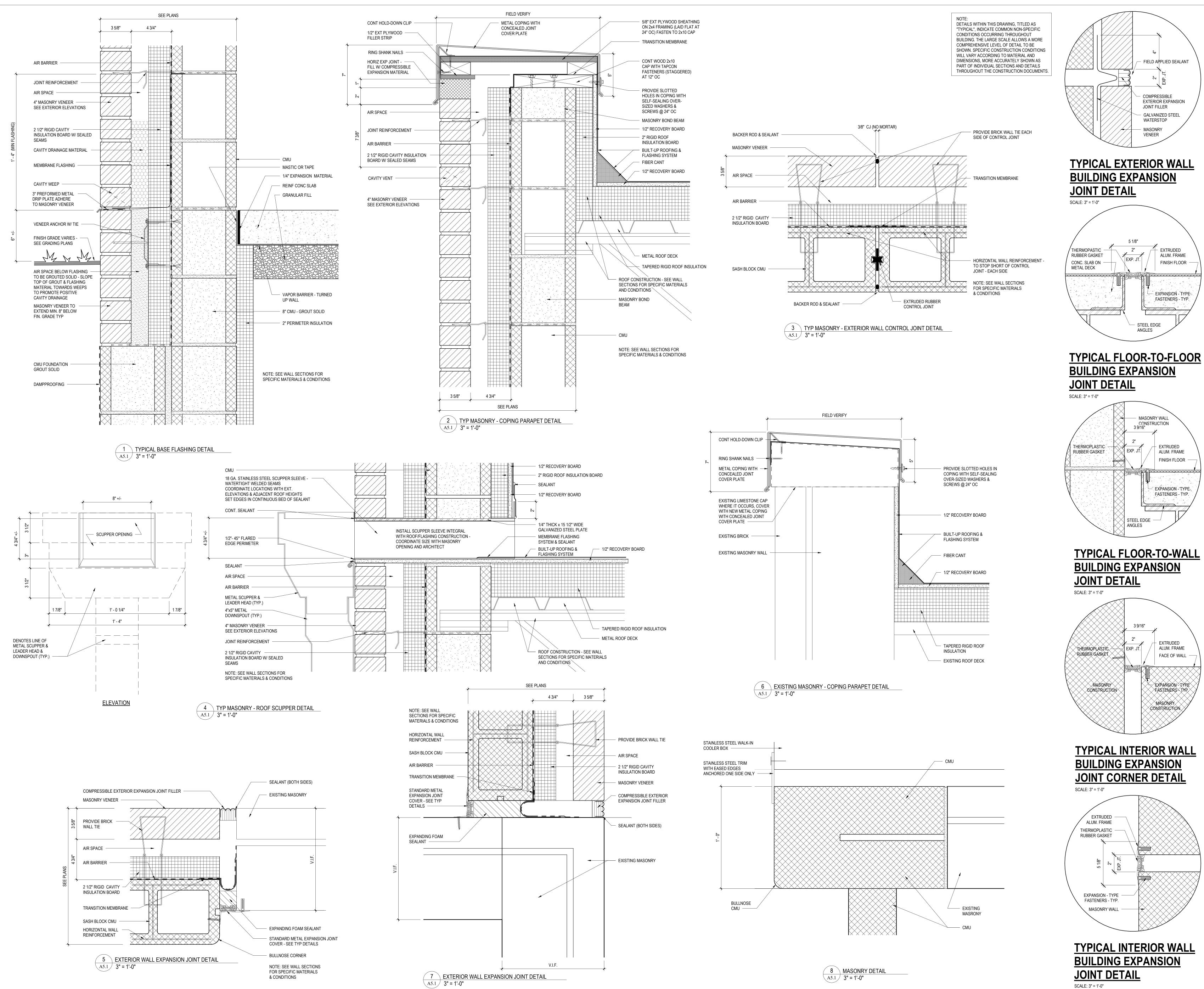
2 LARGE SCALE TOILET PLAN - ALT. GC-1 A4.1 1/4" = 1'-0"



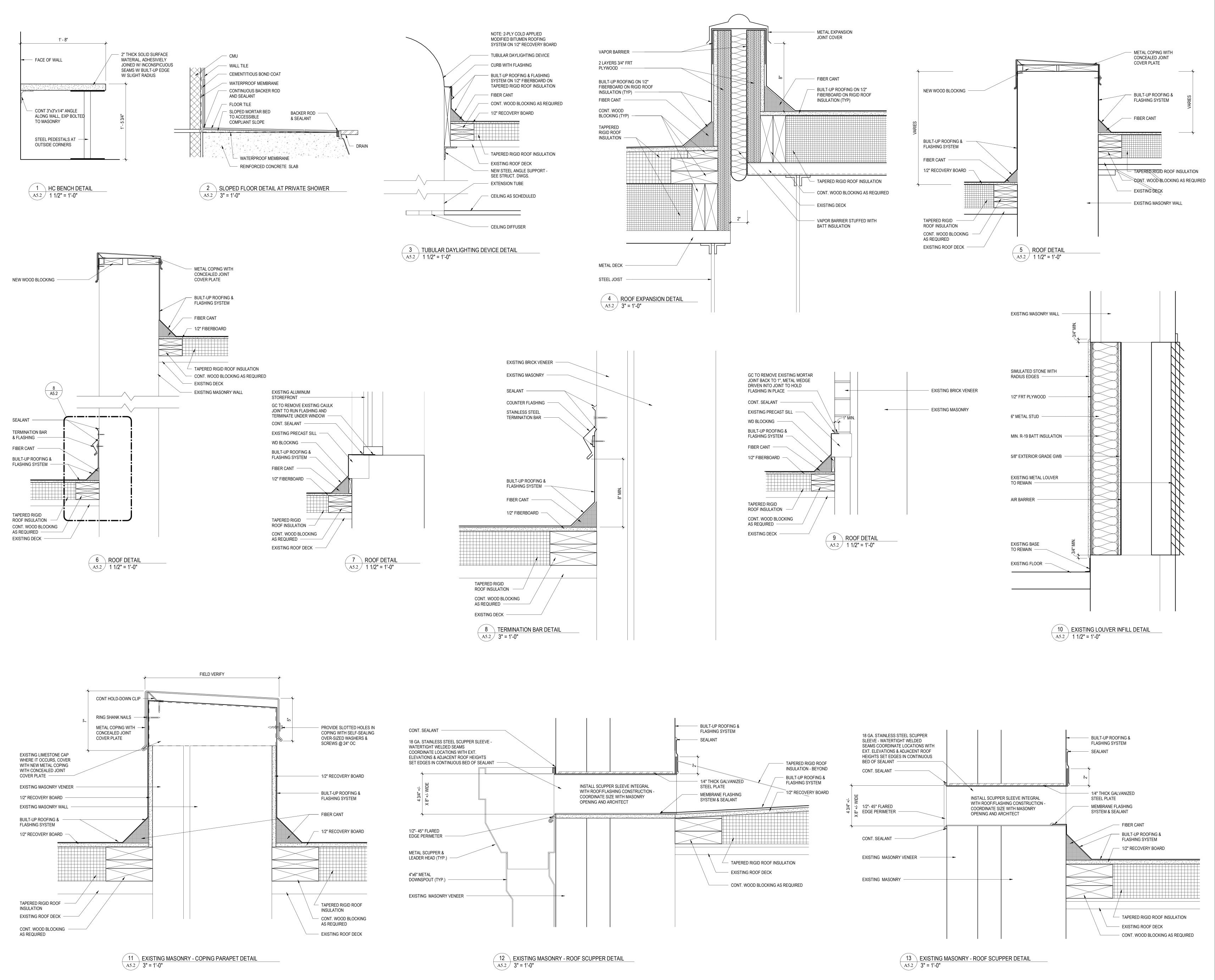
GENERAL NOTES:

- 1. ACCESSIBLE FIXTURES ARE INDICATED WITH THE REQUIRED CLEAR FLOOR SPACE CLEARANCES FOR ALL ACCESSIBLE ROUTES & MANEUVERING CLEARANCES.
- 2. PLUMBING FIXTURE ROUGH-IN DIMENSIONS & TOILET PARTITION LAYOUT DIMENSIONS ARE FROM THE WALL FINISH MATERIAL.
- 3. PROVIDE WOOD BLOCKING IN STUD WALLS FOR ALL TOILET ACCESSORIES.
- 4. TOILET PARTITION DIMENSIONS ARE TO THE PANEL CENTERLINE UNLESS NOTED OTHERWISE. MINIMUM CLEAR DIMENSIONS MUST BE PROVIDED WHERE NOTED.
- 5. COORDINATE ALL WALL FINISHES WITH THE ROOM FINISH SCHEDULE.
- 6. CONTRACTOR TO CONFIRM WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF ALL SURFACE-MOUNTED TOILET ROOM ACCESSORIES PRIOR TO INSTALLATION.
- 7. URINAL PARTITIONS SHALL BEGIN AT A HEIGHT NO MORE THAN 12" FROM AND EXTEND NOT LESS THAN 60" ABOVE THE FINISHED FLOOR SURFACE. URINAL PARTITIONS SHALL
- EXTEND FROM THE WALL SURFACE AT EACH SIDE OF THE URINAL A MINIMUM OF 18". 8. ACCESSIBLE LOCKERS ARE INDICATED AS '[°] '. AT DOUBLE TIER LOCKERS, ONLY THE BOTTOM TIER IS REQUIRED TO BE ACCESSIBLE. FOR FOUR TIER LOCKERS, ONLY THE BOTTOM TWO TIERS ARE REQUIRED TO BE ACCESSIBLE.

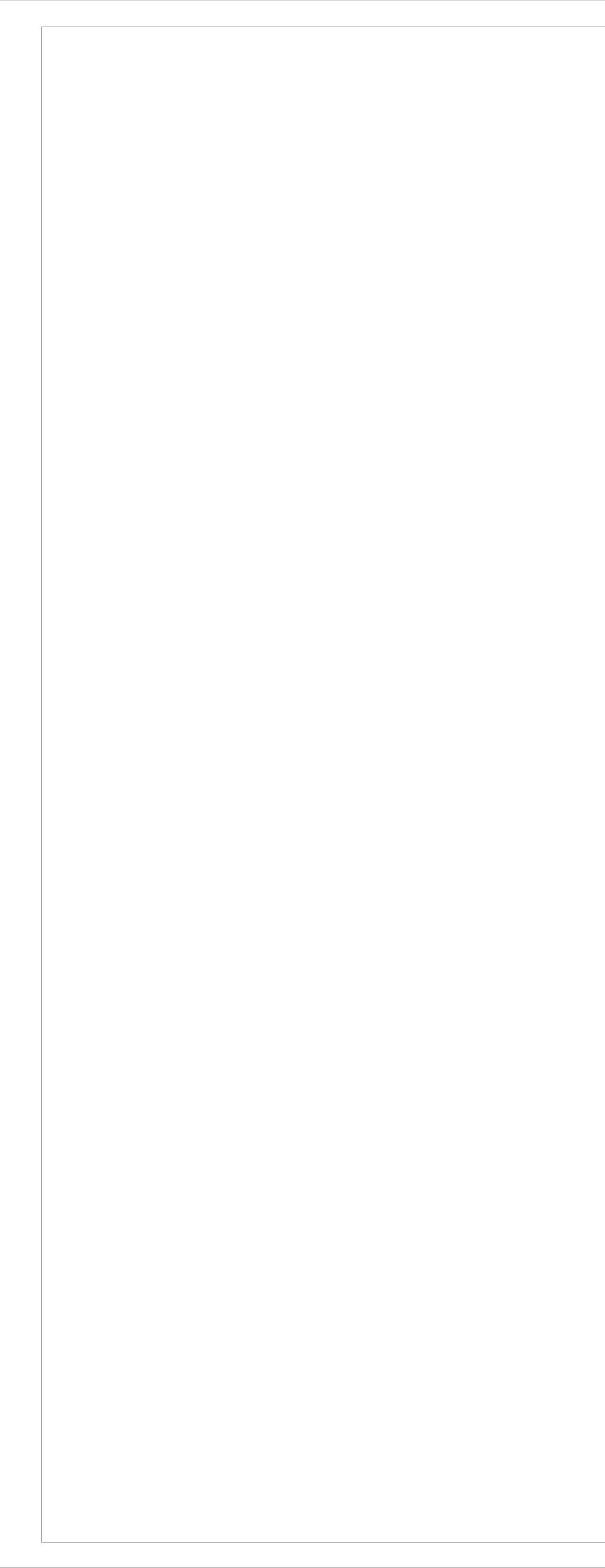








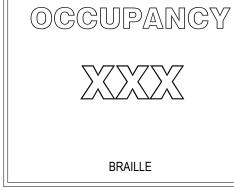




				RO	OM FINIS	H SCHEDU	LE				
								W	ALLS		
				COLOR			WALL		WAINSCOT	CEILING	
	NUMBER	NA	ME	SCHEME	FLOOR	BASE	FINISH	l F	INISH HEIGHT	FINISH	REMARKS
- BASE BID 101		CAFETERIA			RES1	RES1	EPX2/EPX	(3		ACT2	R53
101		DRY STORA			RES1	RES1	EPX2	1.5		FRP	
103		W.I. FREEZE									R4, R28, R57, R8
104 105		W.I. COOLEF	K		 RES1	 RES1	ETR/EPX2/S	SGT		 FRP	R4, R28, R57, R8
106		LOCKER RO	OM		RES1	RES1	EPX2/EPX			FRP	
107		OFFICE			RES1	RES1	EPX2/EPX			FRP	
108 109		TOILET WASHER/ DI	RYFR		RES1 RES1	RES1	EPX2/EPX EPX2/EPX			FRP FRP	
		STORAGE									
110		STORAGE	DOOM		RES1	RES1	EPX2/EPX	(3		FRP	
11 12		FIRE PUMP									NO WORK
13		BOILER ROO									NO WORK
14		SERVER RO	MOM								NO WORK
15 - ALT. GC-1		STORAGE									NO WORK
101		LANGUAGE	SUPPORT		ETR TZ/VC	T RB	PNT			ACT1	R2, R53
102		H.C. TOILET	/ SHOWER		RES2	RES2	CT			ACT1/EPX	R3, R27, R55, R7 R79
103		CHANGING	AREA		RES2	RES2	ETR/PN	г		ACT1	
104		CALMING RO	OOM		CPT	RB	WP			ACT1	
05 06		SENSORY R STORAGE	ROOM		CPT ETR	RB ETR	PNT PNT			ACT1 ETR	
06		STORAGE			ETR	ETR	EPX3			ACT1	
- ALT. GC-2				·				I	I		
101		STORAGE			CPT CPT	RB	PNT			ACT1	D52
102 103		TITLE ONE C			CPT CPT	RB RB	PNT PNT			ACT1 ACT1	R53 R53
04		MEDIA CENT	TER		CPT	RB	ETR			ETR	
05		KINDERGAR			ETR	ETR/RE	ETR/PN	r		ETR	
- ALT. GC-3			. • 1						I	I	
101		VESTIBULE			VCT	RB/ETR S				ACT1	R2
102 103		MEN'S H.C. ⁻ WOMEN'S H			RES2 RES2	RES2 RES2	CT CT			ACT1 ACT1	
- ALT. GC-4		WOWLNOT			NL02	TL02				AUTT	
101 102		PLATFORM GYMNASIUM			ETR ETR	ETR/RE	ETR/PN ETR		ETR ETR	ETR ETR	R80
				SIGNA	GE SCHEI)ule - Upi	DATED			DIRECTIO)NAL
	ORIGINAL		SIGN TO		GE SCHEI	DULE - UPI		I TYPE		DIRECTIO	
ROOM#	ARCHITECTURAL ROOM			O READ			SIGN			ARRO	N
	ARCHITECTURAL ROOM NAME	M ROOM#					SIGN		TRANSGENDER	ARRO	
- BASE BID 101	ARCHITECTURAL ROOM NAME CAFETERIA	ROOM#	RC	O READ		TYPE A 4B/4A	SIGN		TRANSGENDER	ARRO	N
- BASE BID 101 102	ARCHITECTURAL ROON NAME	ROOM#	RC	D READ Dom Name		TYPE A	SIGN		TRANSGENDER	ARRO	W IGHT QTY
- BASE BID 101 102 103 104	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER	ROOM#	RC	D READ DOM NAME (IMUM OCCUPA 		TYPE A 4B/4A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0
- BASE BID 101 102 103 104 105	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN	ROOM# TBD 	RC	D READ DOM NAME (IMUM OCCUPA 		TYPE A 4B/4A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0 0
- BASE BID 101 102 103 104 105 106	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER	ROOM# TBD	RC	D READ DOM NAME (IMUM OCCUPA 		TYPE A 4B/4A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET	ROOM# TBD 	RC EXIT/MAX	D READ DOM NAME KIMUM OCCUPA 		TYPE A 4B/4A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108 109	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE	ROOM# TBD TBD TBD 	RC EXIT/MAX	D READ DOM NAME (IMUM OCCUPA RESTROOM 		TYPE A 4B/4A 2A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108 109 110	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET	ROOM# TBD TBD	RC EXIT/MAX	D READ DOM NAME (IMUM OCCUPA RESTROOM		TYPE A 4B/4A 2A	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108 109 110 111 112	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE FIRE PUMP ROOM ELECTRICAL ROOM	ROOM# TBD TBD TBD TBD	RC EXIT/MAX	D READ DOM NAME (IMUM OCCUPA RESTROOM 		TYPE A 4B/4A 2A 2A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY 2 0 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108 109 110 111 112 112 113	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE FIRE PUMP ROOM ELECTRICAL ROOM BOILER ROOM	ROOM# TBD TBD TBD TBD TBD TBD TBD TBD	RC EXIT/MAX	D READ DOM NAME (IMUM OCCUPA RESTROOM RESTROOM 		TYPE A 4B/4A 2A 2A 	SIGN			ARRO	W IGHT QTY IGHT QTY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108 107 108 109 110 111 112 113 114	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE FIRE PUMP ROOM ELECTRICAL ROOM	ROOM# TBD TBD TBD TBD TBD 	RC EXIT/MAX	D READ DOM NAME (IMUM OCCUPA RESTROOM RESTROOM 		TYPE A 4B/4A 2A 2A 2A 	SIGN			ARRO	W IGHT QTY 2 0 0 0 0 0
- BASE BID 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE FIRE PUMP ROOM ELECTRICAL ROOM BOILER ROOM SERVER ROOM SERVER ROOM	ROOM# TBD TBD TBD TBD TBD <td< td=""><td>RC EXIT/MAX</td><td>D READ DOM NAME COM NAME COM OCCUPA COM CONTRACT CONTRACT</td><td></td><td>TYPE A 4B/4A </td><td>SIGN</td><td></td><td>TRANSGENDER</td><td>ARRO</td><td>W IGHT QTY IGHT QTY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td<>	RC EXIT/MAX	D READ DOM NAME COM NAME COM OCCUPA COM CONTRACT		TYPE A 4B/4A 	SIGN		TRANSGENDER	ARRO	W IGHT QTY IGHT QTY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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- BASE BID 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 - ALT. GC-1 101 102	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE FIRE PUMP ROOM ELECTRICAL ROOM BOILER ROOM SERVER ROOM SERVER ROOM	ROOM# TBD TBD TBD TBD TBD <td< td=""><td>RC EXIT/MAX</td><td>D READ DOM NAME (IMUM OCCUPA RESTROOM</td><td></td><td>TYPE A 4B/4A </td><td>SIGN</td><td></td><td></td><td>ARRO</td><td>W IGHT QTY IGHT QTY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td></td<>	RC EXIT/MAX	D READ DOM NAME (IMUM OCCUPA RESTROOM		TYPE A 4B/4A 	SIGN			ARRO	W IGHT QTY IGHT QTY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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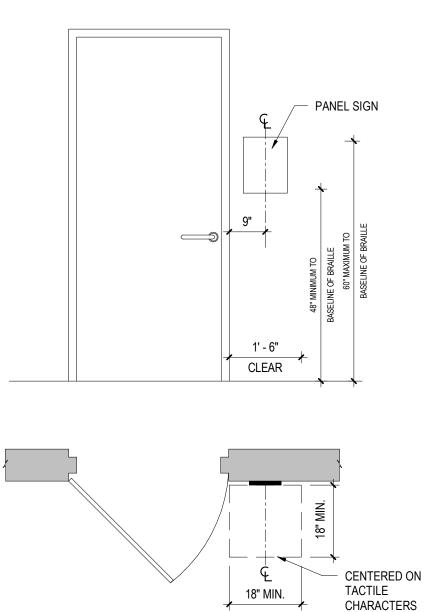
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No. COSC 10000 COS COS <thcos< th=""> COS COS <thco< td=""><td>A104</td><td></td><td></td><td>२</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>R2: SEE PLANS FOR VARYING FLOOR MATERIA</td></thco<></thcos<>	A104			२										R2: SEE PLANS FOR VARYING FLOOR MATERIA
Dist Unit No.1 No.1 <th< td=""><td>A105</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	A105													
HAI Cat Mode Add Add <td></td> <td></td> <td></td> <td>OM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>COOLER & FREEZER.</td>				OM										COOLER & FREEZER.
Dimension Display	A108		TOILET			RES1	RES1	EPX2/EPX3	3			FRP		R5-R25: NUT USED.
NHB TOURDE FEAL D'PALLE TOURDE	A109			RYER		RES1	RES1	EPX2/EPX	3			FRP		BASE FINISH
11 TPE NAP POOL -<	A110					RES1	RES1	EPX2/EPX	3			FRP		
Alt AltAPPECON - - - - - AltAPPECON Alt														RB RUBBER
NH CDX:15:024 - - - NOVERS - NOVERS - NOVERS NO														SGT STRUCTURAL GLAZED TILE
A. L. Gal John M.														BASE REMARKS
Dim And the support THE TWO THE TWO THE T			STORAGE										NO WORK	
BLG2 DL2 TRUET DIAMONS RE22 RE25 P145 ALTHAM * RE28 RF2 RE24 RF3 RE34 RF3 RE3				SUPPORT		FTR T7///C	r RB	PNT				ACT1	R2 R53	R28: PROVIDE QUARTZ SHEET VINYL BASE AT V
BAT MUMARM REP. BESS PEAR PAT PAT PAT 6C CAUNDERD II OPT REP OPT AUT CUT														
Bail CAUNISACCA OPT SA WP ATT ATT DB BACK BACK CT SA WP ATT CT CT <td>D400</td> <td></td> <td></td> <td></td> <td></td> <td>5500</td> <td>DEOO</td> <td></td> <td></td> <td></td> <td></td> <td>1071</td> <td>R79</td> <td></td>	D 400					5500	DEOO					1071	R79	
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Bit Original Disk En Pril Disk Disk <thdisk< th=""> <thdis< td=""><td>B105</td><td></td><td>SENSORY RO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdis<></thdisk<>	B105		SENSORY RO											
C-ALLO2 Control Control <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PNT PAINT</td></t<>														PNT PAINT
Chill STRAGE PT R PHT A/C1 SS BULLITE STRAE CSA CLARCE DIVES CT R8 PHT A/C1 R3 PALL RESTRAT			STURAGE			ETR	ETR	EPX3				ACT1		
URL URL CP1 MB PML ACT BS PML ACT BS PML CP1 CP			STORAGE			CPT	RB	PNT				ACT1		
Child Multiple Original Product April Product <	C102													WALL REMARKS
Color OLGENATION CIT ETR ETR <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>R51: NOT USED.</td></t<>														R51: NOT USED.
Autocol Massector														R52: NOT USED.
Direl Vist Billing Vist Billing Billing Vist Billing Billing ACT II P2 Resc Billing ACT II Resc Billing Resc Billing </td <td></td> <td></td> <td>CLASSROOM</td> <td>N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> R54: PROVIDE 16"H STRIPE ABOVE EXISTING</td>			CLASSROOM	N										R54: PROVIDE 16"H STRIPE ABOVE EXISTING
Drig Meess ALC TOLET RES2 RES2 CT ACT ACT F. ALT REGA -			VESTIBUI E			VCT	RB/FTR SGT	PNT				ACT1	R2	
Line TWO APRIL TO LOCE PROSE PROV Line PROVE PROV 1000 COL PROVE ETR PROVE ETR PROVE PR														R56: NOT USED.
EIGH PLATTORM ETR E			WOMEN'S H.	.C. TOILET		RES2	RES2	СТ				ACT1		
END CYNNASILIX ETR						FTR	FTR/RB	FTR/PNT				FTR		
SIGNAGE SCHEDULE - UPDATED ORIGINAL ARCHITECTURAL ROOM ROOM* SIGNAGE SCHEDULE - UPDATED ORIGINAL ARCHITECTURAL ROOM ROOM* SIGN TO READ SIGN TYPE DIRECTIONAL ARCHITECTURAL ROOM ROOM* CELLING TE END ROOM PARKES ARCHITECTURAL ROOM ROOM* ROOM NAME TYPE DIRECTIONAL ARCHITECTURAL ROOM ROOM* CELLING TE END ROOM PARKES PARKES PERSON ADD TO STORAGE CELLING TE END ROOM PARKES TO DIFT FORAGE CELLING TE END ROOM PARKES PARKE										FTR	FTR		R80	
ARCHITECTURAL ROOM NAME ROOM# ROOM AME TYPE ADA FEMALE MALE TRANSGENDER LEFT RIGHT QTY ABGE RD					SIGNA	GE SCHEI)ule - upda	TED						EPX EPOXY PAINT
INDUM NAME ROOM ROOM NAME TYPE AD FEMALE MALE TRANSGENDER LEF RIGHT OTY ABSE 8D -						GE SCHEI)ule - Upda							EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS
Ar BAD CAPETERIA TBD EXTIMAVIALUM OCCUPANCY 4844 Alter Alter RTS PROVIDE THE ONLY MAINT AT SHOWER, ALTER STUDUTURE SYSTEM A101 CAPETERIA TBD - - 0 0 A103 VIL PREEZER - - 0 0 0 PROVIDE THE FOLLOWING ACCEAN 0 A105 MICHENN - - 0 0 0 A105 MICHENN - - 0 0 0 A106 LOCKER ROOM - - 0 0 0 A107 OFFREE - - - 0 0 0 A108 TOLET TBD RESTROOM 2A • 0 <th></th> <th></th> <th>Λ</th> <th>SIGN TO</th> <th></th> <th>GE SCHEI</th> <th>OULE - UPDA</th> <th></th> <th>TYPE</th> <th></th> <th></th> <th></th> <th></th> <th>EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED.</th>			Λ	SIGN TO		GE SCHEI	OULE - UPDA		TYPE					EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED.
Add1 CAFETERIA TBD EXTIMALMUM OCCUPANCY 4B4A 2 680 PROVIDE THE FOLLOWING ADCENT Add2 DIPSTORACE - - 001 <td< td=""><td>ROOM#</td><td>ARCHITECTURAL ROOM</td><td></td><td></td><td>O READ</td><td></td><td></td><td>SIGN</td><td></td><td>TRAN</td><td>SGENDER</td><td>ARRO</td><td>N</td><td>EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VARIANT</td></td<>	ROOM#	ARCHITECTURAL ROOM			O READ			SIGN		TRAN	SGENDER	ARRO	N	EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VARIANT
ANG W.I. PREZER - <	A - BASE BI	ARCHITECTURAL ROOM NAME	ROOM#	R	O READ OOM NAME		TYPE ADA	SIGN		TRAN	SGENDER	ARRO	N GHT QTY	EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS. R78: NOT USED.
International field Internatinternational field Internationa	A - BASE BII A101	ARCHITECTURAL ROOM NAME CAFETERIA	ROOM#	R	O READ OOM NAME XIMUM OCCUPA		TYPE ADA 4B/4A	SIGN		TRAN	SGENDER	ARRO	N GHT QTY 2	EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS. R78: NOT USED. R78: NOT USED. R79: PROVIDE EPOXY PAINT AT SHOWER (EP) R80: PROVIDE THE FOLLOWING ACCENT COLOR
Altb NICHEN 0 A106 LOCKER ROOM 0 0 A107 OFFICE 0 0 A108 TOLET TBD RESTROOM 2A • 0 A108 TOLET TBD RESTROOM 2A • 0 A110 STORAGE 0 0 A111 FIRE PLMP ROOM 0 0 A113 BOLER ROOM 0 0 A114 SERVER ROOM 0 0 A113 SOLRAGE 0 0 A114 SERVER ROOM 0 0 A115 STORAGE 0 0 A114 SERVER ROOM 0 0 0 B101 LANGLAGE SUPPORT 0 0 0 0 0 0 0 0 <td>A - BASE BII A101 A102</td> <td>ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE</td> <td>ROOM#</td> <td>R</td> <td>O READ OOM NAME XIMUM OCCUPA </td> <td></td> <td>TYPE ADA 4B/4A </td> <td>SIGN</td> <td></td> <td>TRAN</td> <td>SGENDER</td> <td>ARRO</td> <td>N GHT QTY 2 0</td> <td>EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS. R78: NOT USED. R79: PROVIDE EPOXY PAINT AT SHOWER (EP) R80: R80: PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR</td>	A - BASE BII A101 A102	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE	ROOM#	R	O READ OOM NAME XIMUM OCCUPA 		TYPE ADA 4B/4A 	SIGN		TRAN	SGENDER	ARRO	N GHT QTY 2 0	EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS. R78: NOT USED. R79: PROVIDE EPOXY PAINT AT SHOWER (EP) R80: R80: PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR
A107 OFFICE 0 0 A108 TOILET TBD RESTROOM 2A • • 1 A108 TOILET TBD RESTROOM 2A • • 1 A109 WASHER DRYER STORAGE 0 0 1 1 Restroom 0 0 1 1 1 Restroom 0 0 1	A - BASE BII A101 A102 A103 A104	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER	ROOM# TBD	R	O READ OOM NAME XIMUM OCCUPA 		FYPE ADA 4B/4A 	SIGN		TRAN	SGENDER	ARRO	N GHT QTY 2 0 0 0 0	EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED. R77:R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED. R79:R79:PROVIDE EPOXY PAINT AT SHOWER (EP) R80:R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR
A109 WASHER DRYER STORAGE 0 A110 STORAGE 0 0 1. IREFER TO STORAGE 0 1. INTEGER TO STORAGE 0 1. INTEGER TO STORAGE 0 1. INTEGER TO STORAGE 1. INTEGER TO STORAGE </td <td>A - BASE BII A101 A102 A103 A104 A105</td> <td>ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN</td> <td>ROOM# TBD </td> <td>R</td> <td>O READ OOM NAME XIMUM OCCUPA </td> <td></td> <td>TYPE ADA 4B/4A </td> <td>SIGN</td> <td></td> <td>TRAN</td> <td>SGENDER</td> <td>ARRO</td> <td>N GHT QTY 2 0 0 0 0 0</td> <td>EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED. R77:R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED. R79:R79:PROVIDE EPOXY PAINT AT SHOWER (EP) R80:R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNTR81:WALK-IN COOLER & FREEZER SHALL BE</td>	A - BASE BII A101 A102 A103 A104 A105	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN	ROOM# TBD 	R	O READ OOM NAME XIMUM OCCUPA 		TYPE ADA 4B/4A 	SIGN		TRAN	SGENDER	ARRO	N GHT QTY 2 0 0 0 0 0	EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED. R77:R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED. R79:R79:PROVIDE EPOXY PAINT AT SHOWER (EP) R80:R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNTR81:WALK-IN COOLER & FREEZER SHALL BE
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A111 FIRE PLURP ROOM 0 A111 ELECTRICAL ROOM 0 A113 BOILER ROOM 0 A114 SERVER ROOM 0 A114 SERVER ROOM 0 A114 SERVER ROOM 0 A115 STORAGE 0 B-ALT GC-1 0 0 B101 LANGUAGE SUPPORT 0 B102 H.C. TOILET' SHOWER TBD RESTROOM 2A • • 1 B103 CHANGING AREA 0 0 5 INTERIOR AND CREATED, REINSERS STRING B104 CALMING ROOM 0 0 7 5 RE SPRIMED AS NOTED, OS STRING STRINGS STRING B105 STORAGE 0 0 0 0 7 5 EXIST EXISTING 5	A - BASE BII A101 A102 A103 A104 A105 A106 A107 A108	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET	ROOM# TBD 	R(O READ OOM NAME XIMUM OCCUPA 		TYPE ADA 4B/4A 	SIGN	MALE	TRAN	SGENDER	ARRO	N QTY GHT QTY 2 0 0 0 0 0 0 0 0 1	EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED. R77:R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED. R79:R79:PROVIDE EPOXY PAINT AT SHOWER (EP) R80:R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNTR81:WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS.R82-R100:NOT USED
A112 ELECTRICAL ROOM - - - 0 A112 BOLER ROOM - - 0 0 A113 BOLER ROOM - - 0 0 A114 SERVER ROOM - - 0 0 A115 STORAGE - - 0 0 B-ALT. GC-1 - - 0 0 0 B102 H.C. TOILET: SHOWER TBD RESTROOM 2A • • 0 B103 CHANGING AREA - - - 0 0 0 0 0 0.0	A - BASE BII A101 A102 A103 A104 A105 A106 A107 A108 A109	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE	ROOM# TBD TBD TBD TBD TBD TBD	R(O READ OOM NAME XIMUM OCCUPA RESTROOM 		FYPE ADA 4B/4A 2A ● 	SIGN	MALE		SGENDER	ARRO	N QTY GHT QTY 2 0 0 0 0 0 0 0 0 0 1 0 0 0	EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED.R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED.R79:PROVIDE EPOXY PAINT AT SHOWER (EP)R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNTR81:WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS.R82-R100:NOT USEDGENERAL NOTES1.REFER TO SPECIFICATIONS FOR DETAILED
AT14 SERVER ROOM - - - 0 A114 SERVER ROOM - - - 0 A115 STORAGE - - 0 0 A115 STORAGE - - 0 0 B - - - 0 0 B - - - 0 0 B101 LANGUAGE SUPPORT - - 0 0 B102 HC. TOILET'S HOWER TBD RESTROOM 2A • • 0 B103 CHANGING AREA - - - 0 0 B104 CALMING ROOM - - - 0 0 B106 STORAGE - - - 0 0 B105 STORAGE - - - 0 0 C - ALT. GC-2 - - - 0 0 0 C102	A - BASE BII A101 A102 A103 A104 A105 A106 A107 A108 A109 A110	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE	ROOM# TBD TBD TBD TBD TBD TBD TBD <td< td=""><td>R(</td><td>O READ OOM NAME XIMUM OCCUPA RESTROOM </td><td></td><td>TYPE ADA 4B/4A 2A 2A </td><td>SIGN</td><td>MALE</td><td></td><td>SGENDER</td><td>ARRO</td><td>N QTY GHT QTY 2 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS. R78: NOT USED. R79: PROVIDE EPOXY PAINT AT SHOWER (EP) R80: PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNT R81: WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS. R82-R100: NOT USED GENERAL NOTES 1. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEM/TYPES. 1.</td></td<>	R(O READ OOM NAME XIMUM OCCUPA RESTROOM 		TYPE ADA 4B/4A 2A 2A 	SIGN	MALE		SGENDER	ARRO	N QTY GHT QTY 2 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EPX EPOXY PAINT FRP FIBERGLASS REINFORCED PANELS CEILING REMARKS R76: NOT USED. R77: SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS. R78: NOT USED. R79: PROVIDE EPOXY PAINT AT SHOWER (EP) R80: PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNT R81: WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS. R82-R100: NOT USED GENERAL NOTES 1. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEM/TYPES. 1.
ATTA DAVELATION III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	A - BASE BII A101 A102 A103 A104 A105 A106 A107 A108 A109 A110 A111 A112	ARCHITECTURAL ROOM NAME CAFETERIA DRY STORAGE W.I. FREEZER W.I. COOLER KITCHEN LOCKER ROOM OFFICE TOILET WASHER/ DRYER STORAGE STORAGE FIRE PUMP ROOM ELECTRICAL ROOM	ROOM# TBD TBD TBD <td< td=""><td>R(</td><td>O READ OOM NAME XIMUM OCCUPA RESTROOM </td><td></td><td>TYPE ADA 4B/4A 2A ● </td><td>SIGN</td><td>MALE</td><td></td><td>SGENDER</td><td>ARRO</td><td>N GHT QTY 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED. R77:R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED. R79:R79:PROVIDE EPOXY PAINT AT SHOWER (EP) R80:R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNTR81:WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS.R82-R100:NOT USEDGENERAL NOTES1.REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEM/TYPES.2.REFER TO WALL TYPES FOR MASONRY, GYPSU WALLBOARD, & STRUCTURAL GLAZED TILE</td></td<>	R(O READ OOM NAME XIMUM OCCUPA RESTROOM 		TYPE ADA 4B/4A 2A ●	SIGN	MALE		SGENDER	ARRO	N GHT QTY 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EPXEPOXY PAINT FRPFRPFIBERGLASS REINFORCED PANELSCEILINGR E M A R K SR76:NOT USED. R77:R77:SEE REFLECTED CEILING PLANS FOR VA CEILING MATERIALS AND HEIGHTS.R78:NOT USED. R79:R79:PROVIDE EPOXY PAINT AT SHOWER (EP) R80:R80:PROVIDE THE FOLLOWING ACCENT COLO FOR PAINTED STRUCTURE SYSTEM: a. DECK - ETR b. JOIST - ETR c. DUCTWORK - PNTR81:WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS.R82-R100:NOT USEDGENERAL NOTES1.REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEM/TYPES.2.REFER TO WALL TYPES FOR MASONRY, GYPSU WALLBOARD, & STRUCTURAL GLAZED TILE
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MAXIMUM





1 PANEL SIGN - INSTALL DETAIL (TYP) A6.1 1/2" = 1'-0"

TYPE 2A | SIZE: 8"x10"

NOT TO SCALE

TYPE 4A | SIZE: 8"x10" NOT TO SCALE

NOT TO SCALE

GENERAL NOTE IN REFERENCE TO A6.1 DRAWINGS



DEFECTS IN APPEARANCE. 2. TACTILE CHARACTERS SHALL BE 48 INCHES MINIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER. 3. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE

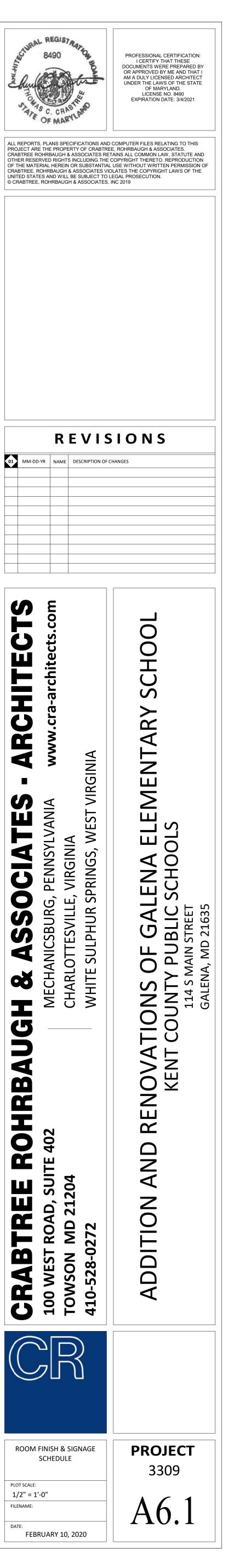
1. INSTALL SIGNS LEVEL, PLUMB, AND AT THE HEIGHT INDICATED, WITH SIGN SURFACES FREE FROM DISTORTION OR OTHER

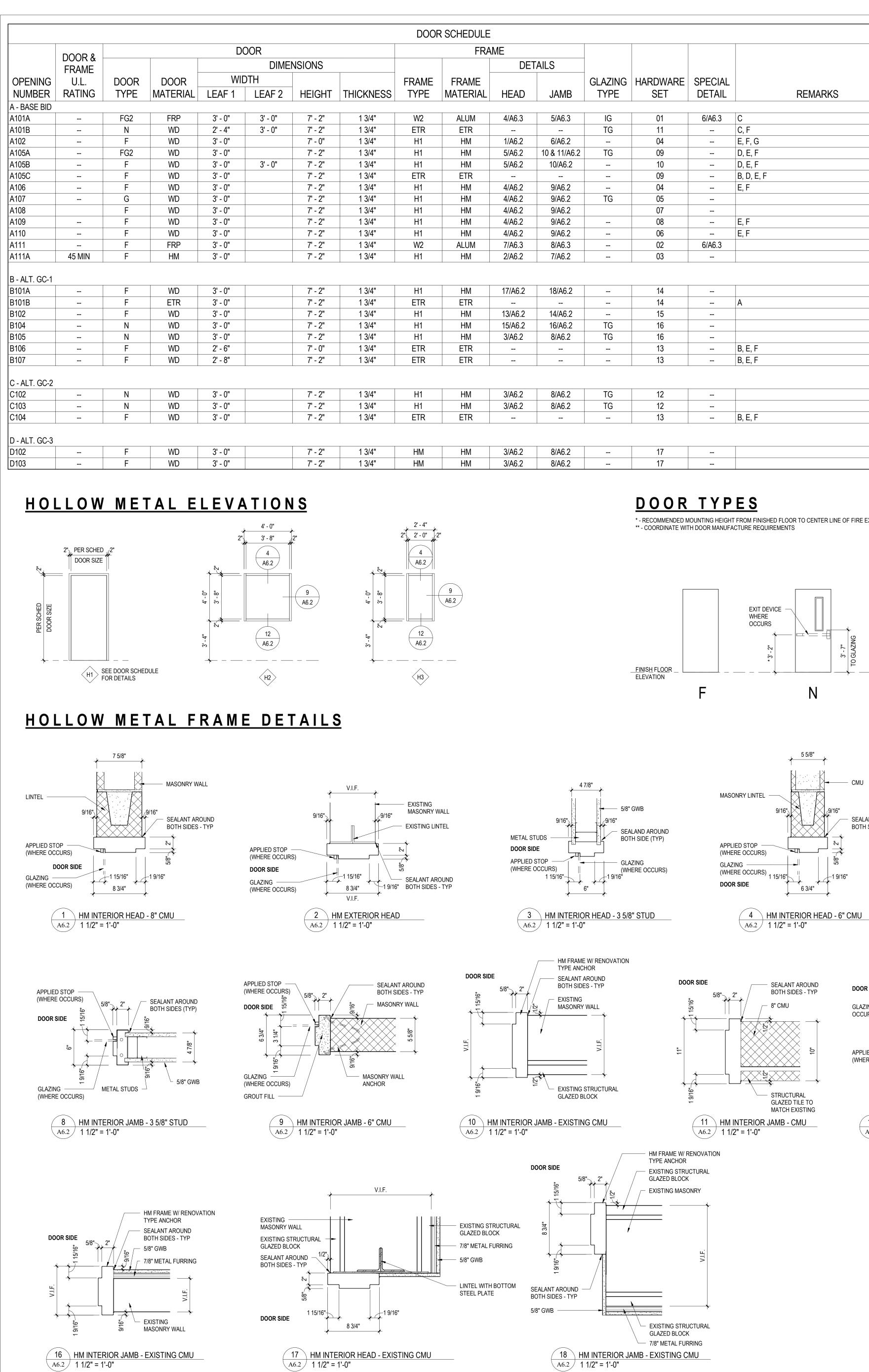
RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. 4. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE

CLOSED POSITION AND 45 DEGREE OPEN POSITION. a. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND

WITHOUT HOLD OPEN DEVICES. 5. GENERAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING NUMBERING FOR ELECTRICAL PANELS. 6. IN ADDITION TO THE SIGNAGE SCHEDULE PLEASE PROVIDE THE FOLLOWNG SIGN TYPES:

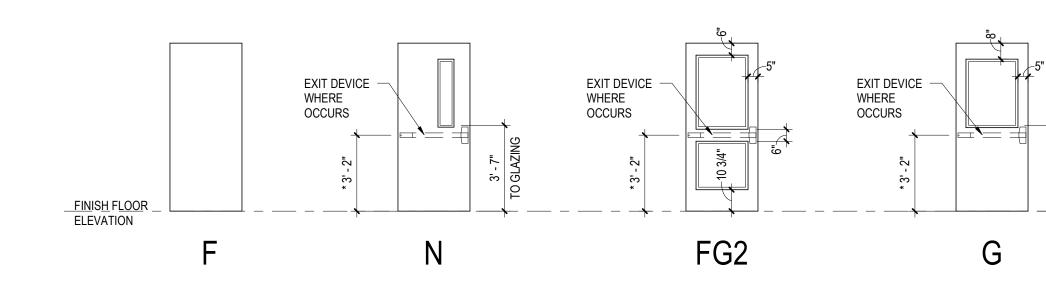
a. SIGN TYPE 4A: 48 MEDIA CENTER & 185 CAFETERIA b. SIGN TYPE 4B: @ DOOR A101A





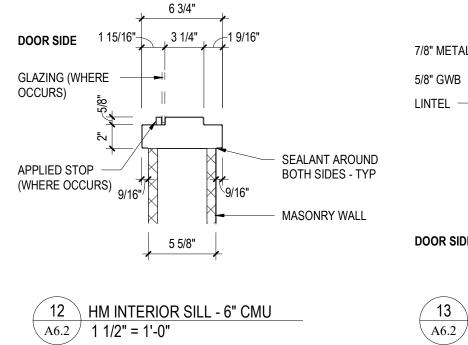
						REMARKS
DET	AILS					A. EXISTING DOOR AND FRAME TO REMAIN, REPLACE EXISTING HARDWARE. B. EXISTING DOOR FRAME TO REMAIN, REPLACE EXISTING DOOR AND HARDWA
EAD	JAMB	GLAZING TYPE	HARDWARE SET	SPECIAL DETAIL	REMARKS	C. PROVIDE PANIC HARDWARE AND CLOSER. D. DOOR TO SWING 180 DEGREES.
	-//				-	E. PROVIDE DOOR CLOSER.
A6.3	5/A6.3	IG	01	6/A6.3	C	F. PROVIDE MANUAL HOLD OPEN.
		TG	11		C, F	
A6.2	6/A6.2		04		E, F, G	G. DOOR TO HAVE SEPARATE KEYING.
A6.2	10 & 11/A6.2	TG	09		D, E, F	
A6.2	10/A6.2		10		D, E, F	
			09		B, D, E, F	
A6.2	9/A6.2		04		E, F	
A6.2	9/A6.2	TG	05			
A6.2	9/A6.2		07			
A6.2	9/A6.2		08		E, F	
A6.2	9/A6.2		06		E, F	
A6.3	8/A6.3		02	6/A6.3		
A6.2	7/A6.2		03			
					1	
/A6.2	18/A6.2		14			
			14		A	
/A6.2	14/A6.2		15			
/A6.2	16/A6.2	TG	16			
A6.2	8/A6.2	TG	16			
			13		B, E, F	
			13		B, E, F	
	0/100		10			
A6.2	8/A6.2	TG	12			
A6.2	8/A6.2	TG	12			
			13		B, E, F	
A6.2	8/A6.2		17			
A6.2	8/A6.2		17			

* - RECOMMENDED MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTER LINE OF FIRE EXIT DEVICE



SEALANT AROUND

BOTH SIDES - TYP



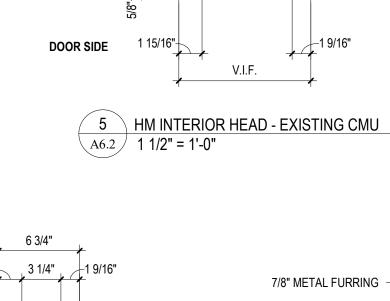
EXISTING ·

LINTEL

MASONRY WALL

SEALANT AROUND

BOTH SIDES - TYP



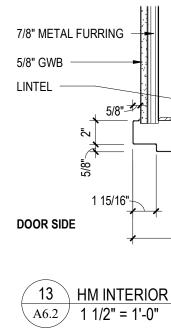
V.I.F.

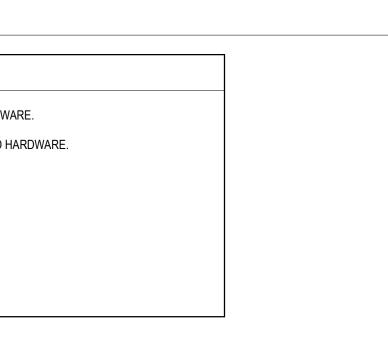
EXISTING

STRUCTURAL

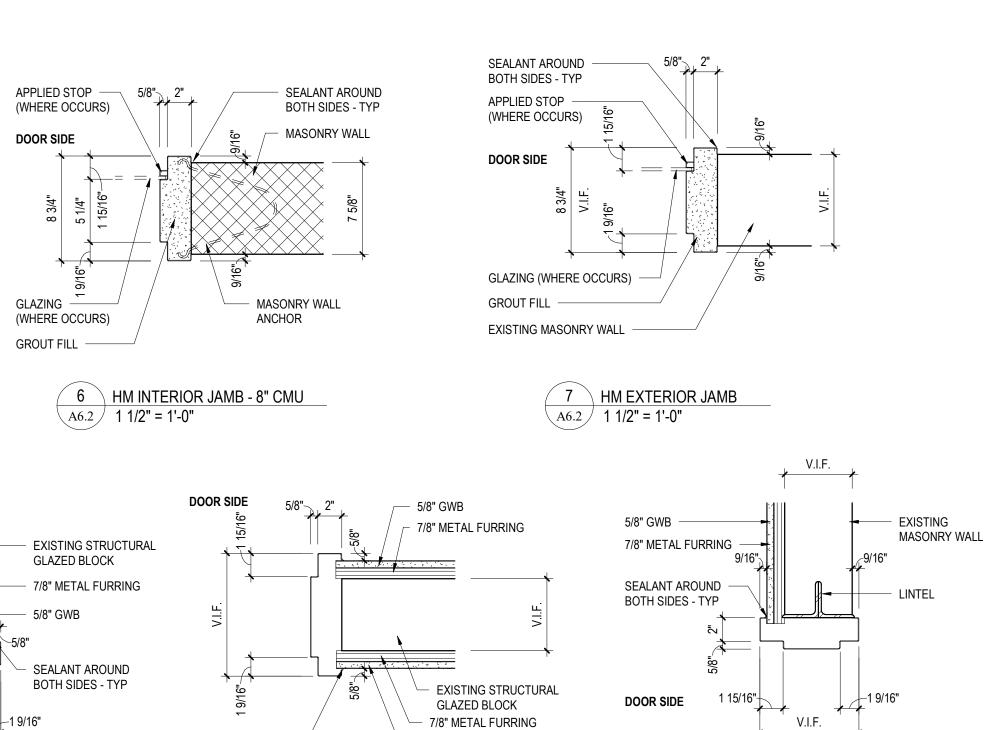
GLAZED BLOCK

V.I.F.









13 HM INTERIOR HEAD - EXISTING CMU

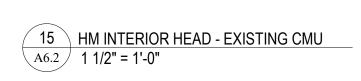
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V.I.F.

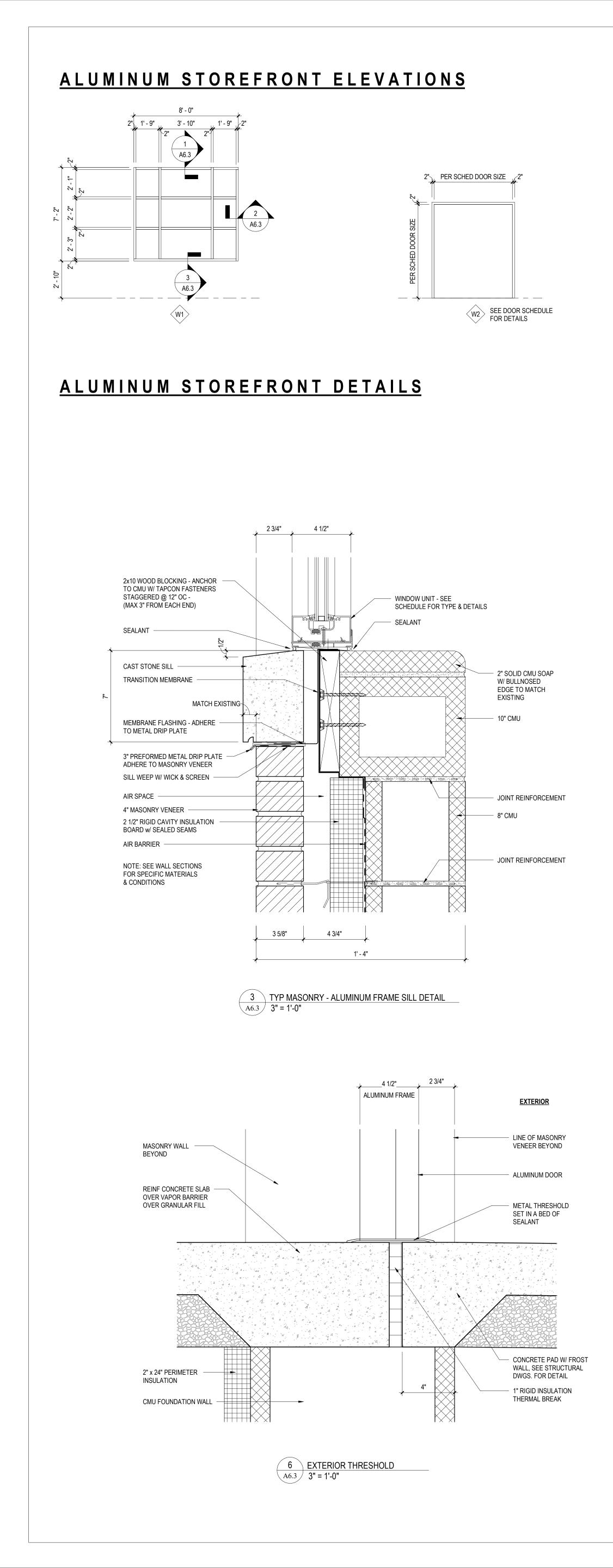
BOTH SIDES - TYP 14 HM INTERIOR JAMB - EXISTING CMU A6.2 1 1/2" = 1'-0"

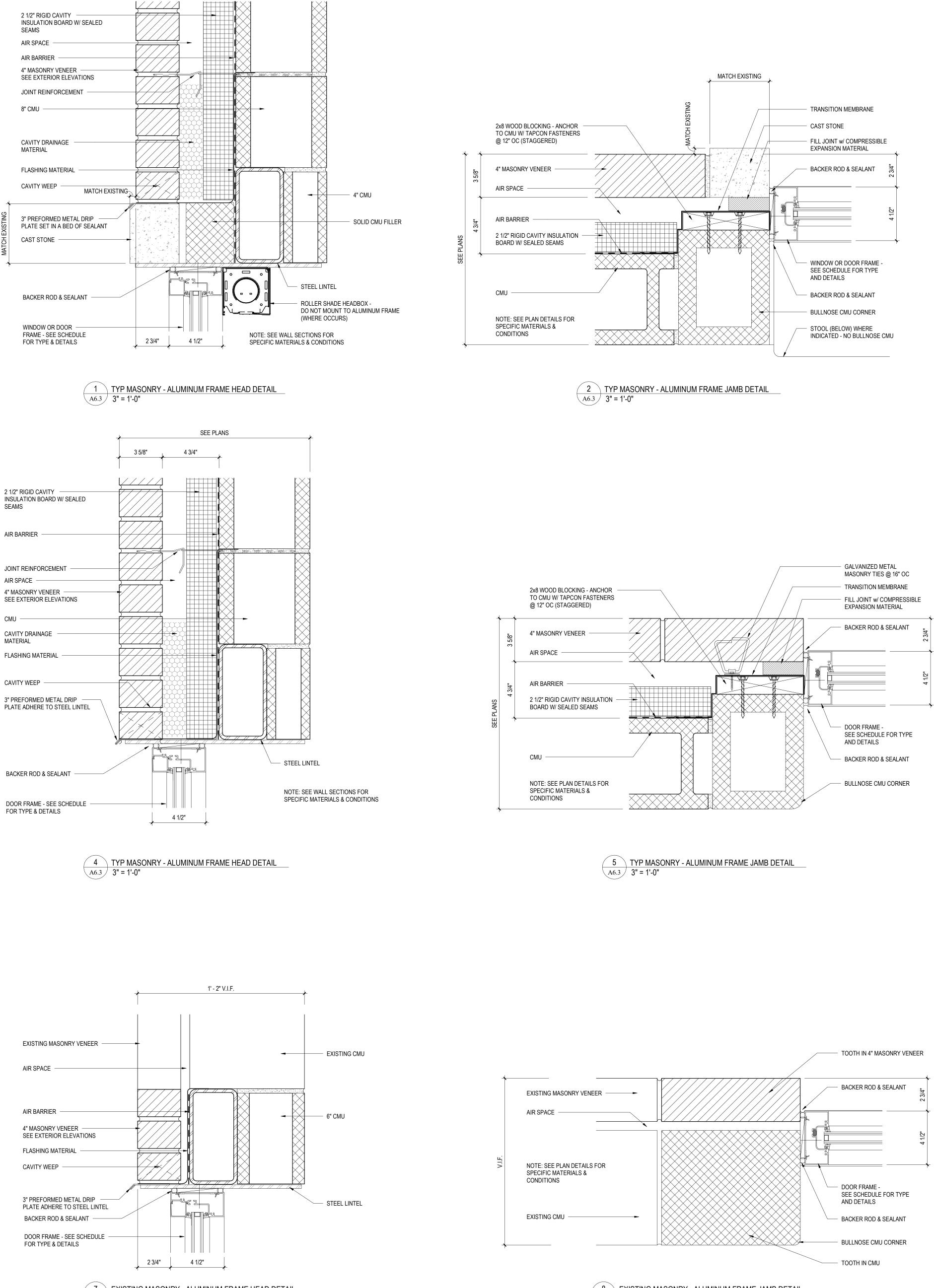
└──── 5/8" GWB

SEALANT AROUND





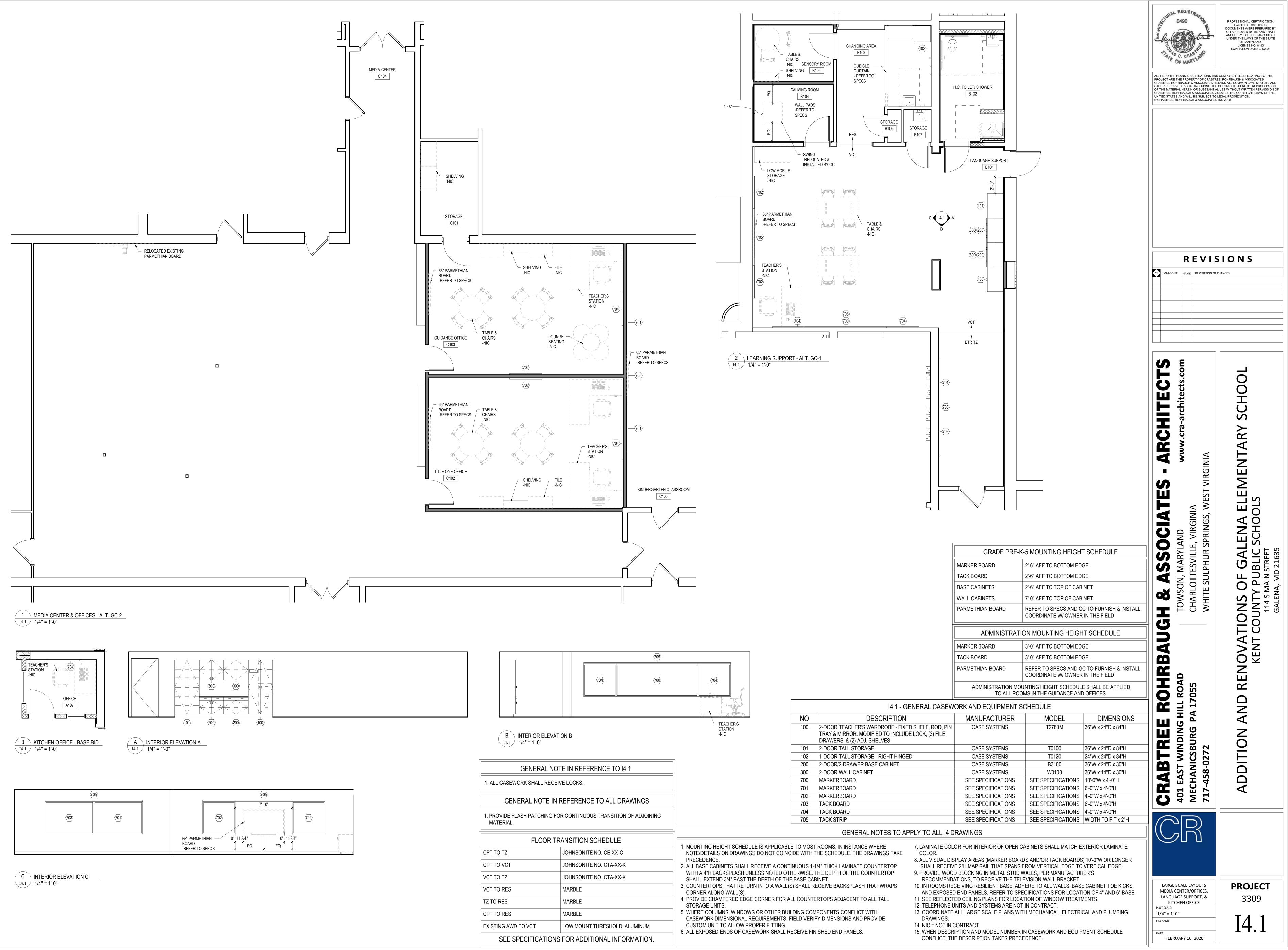


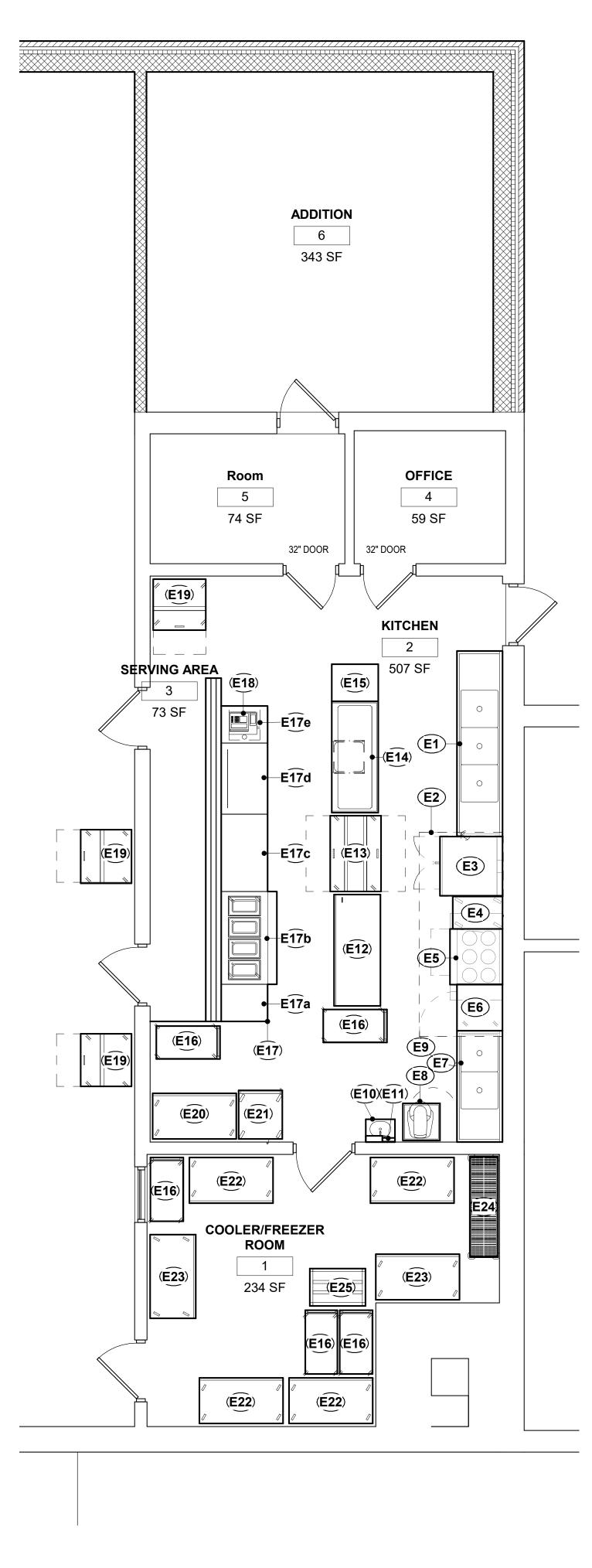


7 EXISTING MASONRY - ALUMINUM FRAME HEAD DETAIL A6.3 3" = 1'-0"









		EQUIPMENT SCHEDULE
ITEM	QTY.	DESCRIPTION
E1	1	POT WASHING SINK
E2	1	VENTILATOR
E3	1	CONVECTION OVEN
E4	1	REACH-IN HEATED CABINET, MOBILE
E5	1	RANGE W/ OVEN BASE
E6	1	REACH-IN HEATED CABINET, MOBILE
E7	1	PREP SINK
E8	1	20-QT MIXER
E9	1	MIXER STAND, MOBILE
E10	1	HAND SINK
E11	1	SOAP & TOWEL DISPENSER
E12	1	BAKER'S TABLE W/ UTILITY TREE
E13	1	MILK COOLER, MOBILE
E14	1	WORKTABLE
E15	1	WORKTABLE
E16	5	UTILITY CART, MOBILE
E17	1	SERVING COUNTER
E17a	1	SOLID TOP COUNTER
E17b	1	HOT FOOD COUNTER
E17c	1	SOLID TOP COUNTER
E17d	1	WORKTABLE
E17e	1	CASHIER'S STAND
E18	1	CASH REGISTER
E19	3	MILK COOLER, MOBILE
E20	1	REACH-IN REFRIGERATOR, MOBILE
E21	1	REACH-IN HEATED CABINET, MOBILE
E22	4	REACH-IN FREEZER, MOBILE
E23	2	REACH-IN REFRIGERATOR, MOBILE
E24	1	SHELVING
E25	1	DUNNAGE RACK

(N.I.C.) - NOT IN CONTRACT.

(N.I.K.E.C.) - NOT IN KITCHEN EQUIPMENT CONTRACT.

THE USE OF SEALANTS IN FOOD SERVICE EQUIPMENT

- 1. ALL SEALANTS MUST BE LISTED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) UNDER 51.
- 2. SEALANTS SHALL BE USED ONLY ON STRUCTURALLY SOUND JOINTS AND SEAMS.
- 3. SEALANTS MAY BE USED TO FILL SPACES AND OPENINGS SUCH AS, BUT NOT LIMITED TO, BLIND RIVET HEADS AND SLOT AND PHILLIPS HEAD SCREWS.
- 4. OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED INSOFAR AS PRACTICAL BY:
- A. COLLARS AND GROMMETS. B. FLEXIBLE FORM GASKETS.
- SEALANTS MAY BE USED TO SEAL SERVICE AND UTILITY LINES TO WALL AND ADJACENT PIECES OF EQUIPMENT WHERE THE SPACING IS. CLOSED TO LESS THAN 1/8 OF INCH.
- 5. SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES, TO FILL OPEN SPACES, OR VOIDS WHICH RESULT DUE TO IMPROPER DESIGN OR FABRICATION. ANY OPENING IN EXCESS OF 1/8 INCH SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED USING PROPER FIELD JOINTS.

- 8. ALL EXPOSED RAW WOOD WILL BE SEALED.
- ASSOCIATION 101.
- PAVED SURFACE.

REMARKS

GENERAL HEALTH DEPARTMENT NOTATIONS

1. ALL PIPING, CONDUIT, BX CABLE AND SIMILAR CONSTRUCTION WILL BE EITHER LOCATED INSIDE A WALL OR INSTALLED WITH A MINIMUM 3/4" SPACE FROM THE WALL OR SEALED TO THE WALL. 2. ALL DOORS TO THE OUTSIDE WILL BE SELF-CLOSING AND RODENT-PROOF.

3. A MINIMUM OF FIFTY (50) FOOT-CANDLES OF SHIELDED LIGHT WILL BE PROVIDED AT ALL WORK SURFACES, STORAGE AREAS, FOOD PREPARATION AREAS, UTENSIL WASHING AREAS, TOILET ROOMS, LOCKER ROOMS AND IN THE GARBAGE AND RUBBISH STORAGE AREAS.

4. ALL RESTROOM DOORS WILL BE SELF-CLOSING. 5. ALL RESTROOMS WILL BE EQUIPPED WITH MECHANICAL EXHAUST VENTILATION SIZED AT A MINIMUM RATE OF TWO (2) CUBIC FEET PER MINUTE PER SQUARE FOOT OF FLOOR AREA AND EXHAUSTING DIRECTLY TO THE OUTSIDE.

6. ALL FLOOR MOUNTED EQUIPMENT WILL BE PLACED ON NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIX (6) INCH LEGS, OR THE EQUIVALENT, AND PROPERLY SPACED FROM ADJACENT EQUIPMENT OR WALLS; OR PLACED ON NSF APPROVED CASTERS, OR THE EQUIVALENT; OR PROPERLY SEALED TO ALL ADJACENT SURFACES.

7. ALL COUNTER MOUNTED FOODSERVICE EQUIPMENT WEIGHING IN EXCESS OF EIGHTY (80) POUNDS WILL BE MOUNTED ON NSF APPROVED FOUR (4) INCH HIGH LEGS.

9. ALL ANNULAR OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32TH OF AN INCH. 10. ALL AISLES WILL BE A MINIMUM OF THIRTY-SIX (36) INCHES WIDE PER NATIONAL FIRE PROTECTION

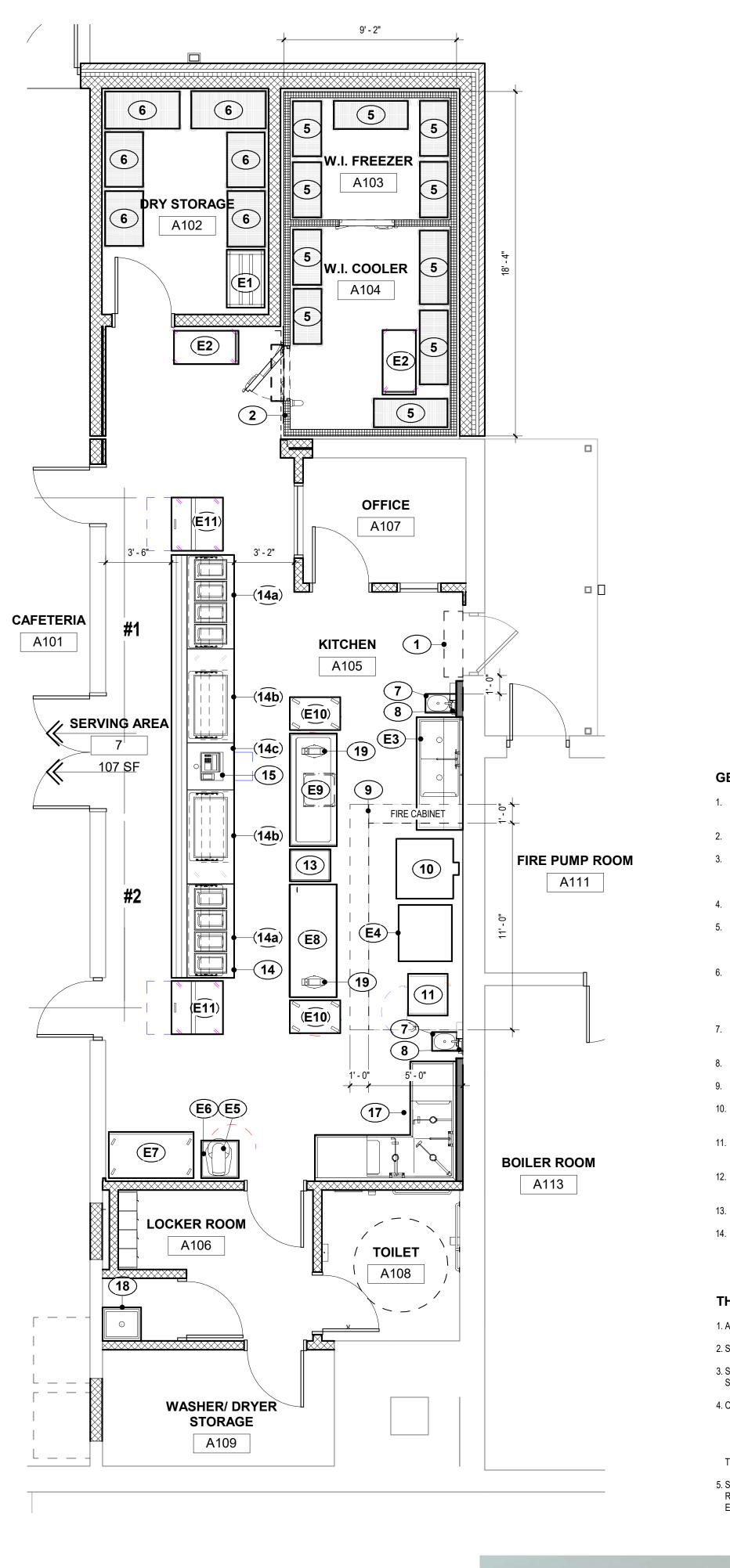
11. THE OUTSIDE STORAGE OF REFUSE WILL BE IN RODENT-PROOF CONTAINERS LOCATED ON A

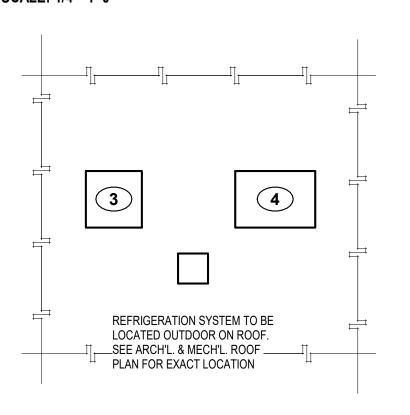
12. ALL SINK INSTALLATIONS WILL BE EQUIPPED WITH HOT AND COLD RUNNING WATER THROUGH

A MIXING VALVE OR COMBINATION FAUCET.

13. ALL PAINTING WILL BE WITH LEAD-FREE, NON-METALLIC ENAMEL PAINT OR A HIGH QUALITY VARNISH. 14. WASTE WATER FROM ALL APPLICABLE FOODSERVICE EQUIPMENT WILL BE INDIVIDUALLY PLUMBED TO AN OPEN SITE DRAIN WITH A MINIMUM ONE INCH AIR GAP.









VIEW AT SERVING LINE - C

EQUIPMENT SCHEDULE

TEM	QTY.	DESCRIPTION	REMARKS
1	1	FLY FAN	
2	1	WALK-IN COOLER/FREEZER	W/ AIR CURTAINS
3	1	COOLER REFRIGERATION SYSTEM	LOCATED OUTDOORS ON ROOF
4	1	FREEZER REFRIGERATION SYSTEM	LOCATED OUTDOORS ON ROOF
5	10	SHELVING, MOBILE	
6	6	SHELVING, MOBILE	
7	2	HAND SINK	12"WIDE WITH ENDSPLASHES
8	2	SOAP & TOWEL DISPENSER	
9	1	VENTILATOR	W/ FIRE PROTECTION SYSTEM
10	1	CONVECTION OVEN	DOUBLE STACKED
11	1	STEAMER	DOUBLE COMPARTMENT
12	1	SPARE NUMBER	
13	1	PAN RACK	
14	1	SERVING COUNTER	
14a	2	HOT FOOD COUNTER	W/ FILL FAUCET
14b	2	FROST TOP COUNTER	
14c	1	CASHIER'S STAND	
15	1	CASH REGISTER	(N.I.C.) - FURNISHED BY OWNER
16	1	SPARE NUMBER	
17	1	POT WASHING SINK	
18	1	MOP SINK & RACK	
19	2	RETRACTABLE CORD REEL	
E1	1	DUNNAGE RACK	
E2	2	UTILITY CART, MOBILE	
E3	1	PREP SINK	
E4	1	RANGE W/ OVEN BASE	
E5	1	MIXER, 20 QUART	
E6	1	MIXER STAND, MOBILE	
E7	1	REACH-IN REFRIGERATOR	
E8	1	BAKER'S TABLE	W/ UTILITY RACK
E9	1	WORKTABLE	
E10	2	HEATED CABINET, MOBILE	
E11	2	MILK COOLER, MOBILE	

(N.I.C.) - NOT IN CONTRACT.

(N.I.K.E.C.) - NOT IN KITCHEN EQUIPMENT CONTRACT.

GENERAL HEALTH DEPARTMENT NOTATIONS

1. ALL PIPING, CONDUIT, BX CABLE AND SIMILAR CONSTRUCTION WILL BE EITHER LOCATED INSIDE A WALL OR INSTALLED WITH A MINIMUM 3/4" SPACE FROM THE WALL OR SEALED TO THE WALL. 2. ALL DOORS TO THE OUTSIDE WILL BE SELF-CLOSING AND RODENT-PROOF.

3. A MINIMUM OF FIFTY (50) FOOT-CANDLES OF SHIELDED LIGHT WILL BE PROVIDED AT ALL WORK SURFACES, STORAGE AREAS, FOOD PREPARATION AREAS, UTENSIL WASHING AREAS, TOILET ROOMS, LOCKER ROOMS AND IN THE GARBAGE AND RUBBISH STORAGE AREAS.

4. ALL RESTROOM DOORS WILL BE SELF-CLOSING.

5. ALL RESTROOMS WILL BE EQUIPPED WITH MECHANICAL EXHAUST VENTILATION SIZED AT A MINIMUM RATE OF TWO (2) CUBIC FEET PER MINUTE PER SQUARE FOOT OF FLOOR AREA AND EXHAUSTING DIRECTLY TO THE OUTSIDE.

 ALL FLOOR MOUNTED EQUIPMENT WILL BE PLACED ON NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIX (6) INCH LEGS, OR THE EQUIVALENT, AND PROPERLY SPACED FROM ADJACENT EQUIPMENT OR WALLS; OR PLACED ON NSF APPROVED CASTERS, OR THE EQUIVALENT; OR PROPERLY SEALED TO ALL ADJACENT SURFACES.

7. ALL COUNTER MOUNTED FOODSERVICE EQUIPMENT WEIGHING IN EXCESS OF EIGHTY (80) POUNDS WILL BE MOUNTED ON NSF APPROVED FOUR (4) INCH HIGH LEGS. 8. ALL EXPOSED RAW WOOD WILL BE SEALED.

9. ALL ANNULAR OPENINGS IN CONSTRUCTION WILL BE SEALED TO WITHIN 1/32TH OF AN INCH.

10. ALL AISLES WILL BE A MINIMUM OF THIRTY-SIX (36) INCHES WIDE PER NATIONAL FIRE PROTECTION ASSOCIATION 101.

11. THE OUTSIDE STORAGE OF REFUSE WILL BE IN RODENT-PROOF CONTAINERS LOCATED ON A

PAVED SURFACE. 12. ALL SINK INSTALLATIONS WILL BE EQUIPPED WITH HOT AND COLD RUNNING WATER THROUGH

A MIXING VALVE OR COMBINATION FAUCET. 13. ALL PAINTING WILL BE WITH LEAD-FREE, NON-METALLIC ENAMEL PAINT OR A HIGH QUALITY VARNISH. 14. WASTE WATER FROM ALL APPLICABLE FOODSERVICE EQUIPMENT WILL BE INDIVIDUALLY PLUMBED TO AN OPEN SITE DRAIN WITH A MINIMUM ONE INCH AIR GAP.

THE USE OF SEALANTS IN FOOD SERVICE EQUIPMENT

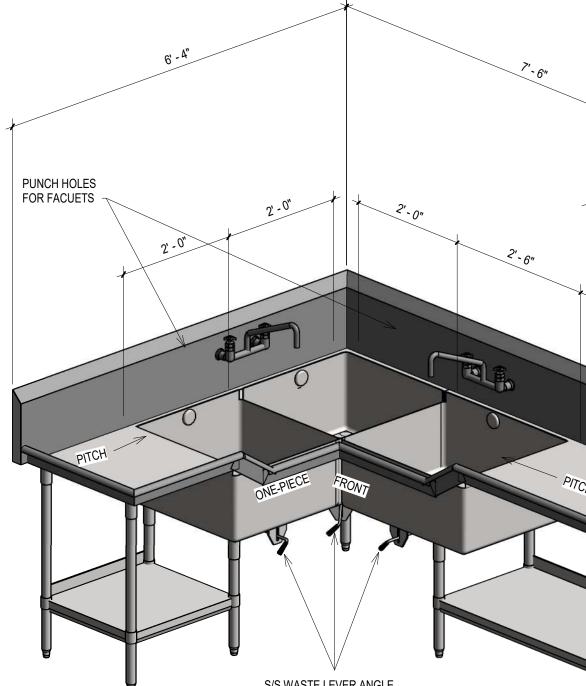
1. ALL SEALANTS MUST BE LISTED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) UNDER 51. 2. SEALANTS SHALL BE USED ONLY ON STRUCTURALLY SOUND JOINTS AND SEAMS.

SEALANTS MAY BE USED TO FILL SPACES AND OPENINGS SUCH AS, BUT NOT LIMITED TO, BLIND RIVET HEADS AND SLOT AND PHILLIPS HEAD SCREWS.

4. OPENINGS AROUND SERVICE AND UTILITY LINES SHOULD BE CLOSED INSOFAR AS PRACTICAL BY: A. COLLARS AND GROMMETS. B. FLEXIBLE FORM GASKETS.

SEALANTS MAY BE USED TO SEAL SERVICE AND UTILITY LINES TO WALL AND ADJACENT PIECES OF EQUIPMENT WHERE THE SPACING IS. CLOSED TO LESS THAN 1/8 OF INCH.

5. SEALANTS MAY NOT BE UTILIZED IN FOOD AND SPLASH CONTACT SURFACES, TO FILL OPEN SPACES, OR VOIDS WHICH RESULT DUE TO IMPROPER DESIGN OR FABRICATION. ANY OPENING IN EXCESS OF 1/8 INCH SHALL BE CONSIDERED EXCESSIVE AND MUST BE CLOSED USING PROPER FIELD JOINTS.



S/S WASTE LEVER ANGLE BRACKET (FULLY WELDED)

POT WASHING SINK SCALE: 3/4"=1'-0"



VIEW AT COOKING, VEG. PREP & PREP AREA





VIEW AT SERVING LINE - A



VIEW AT SERVING LINE - B

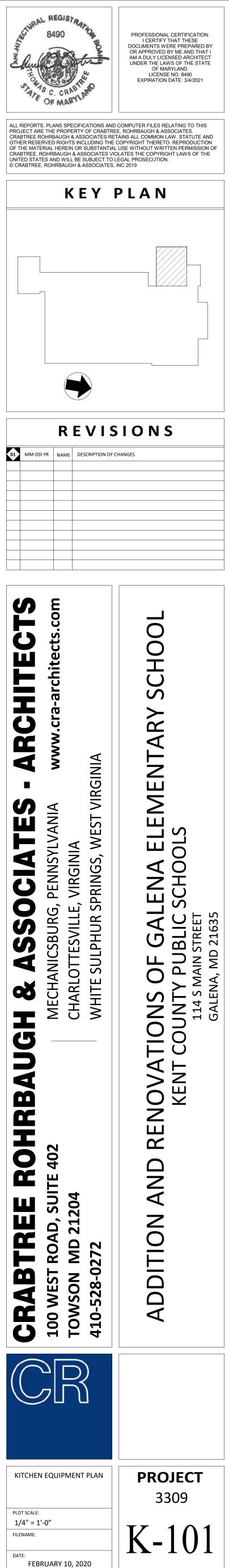
S/S UNDERSHELF W/ 2"

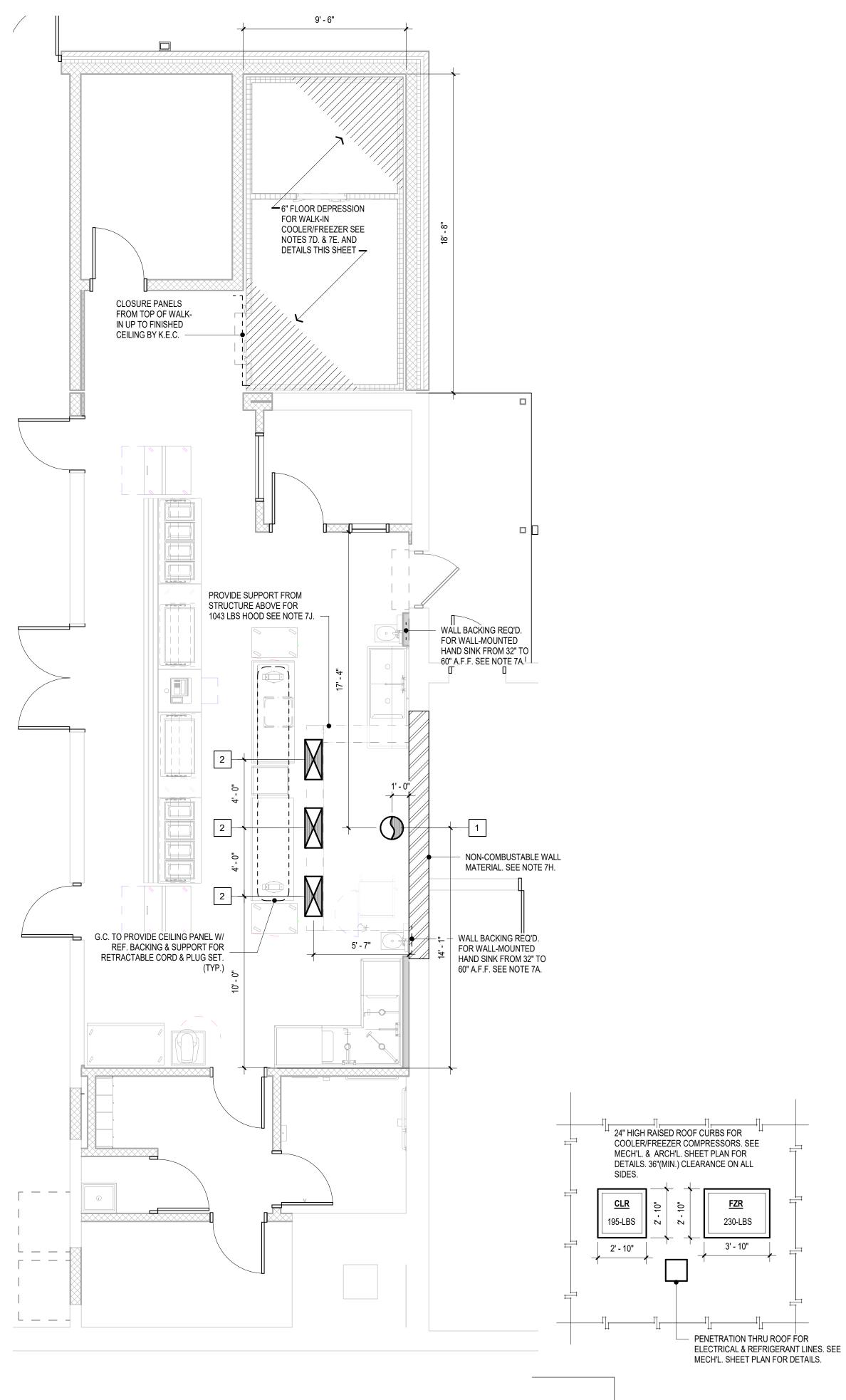


VIEW AT SERVING LINE & WALK-IN BOX

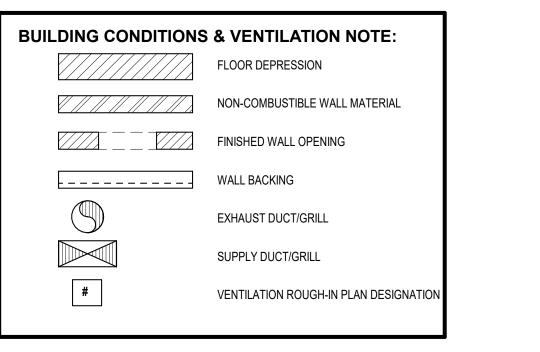


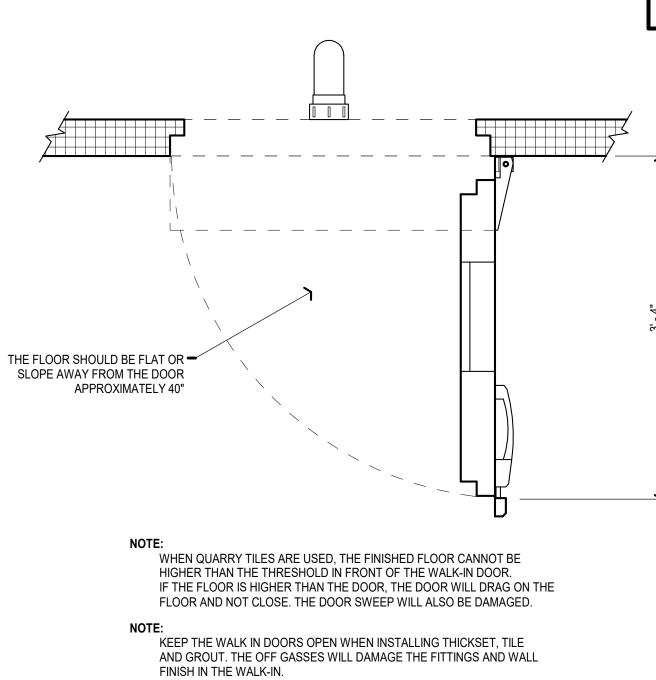
VIEW AT COOKING AREA & DISHWASHING

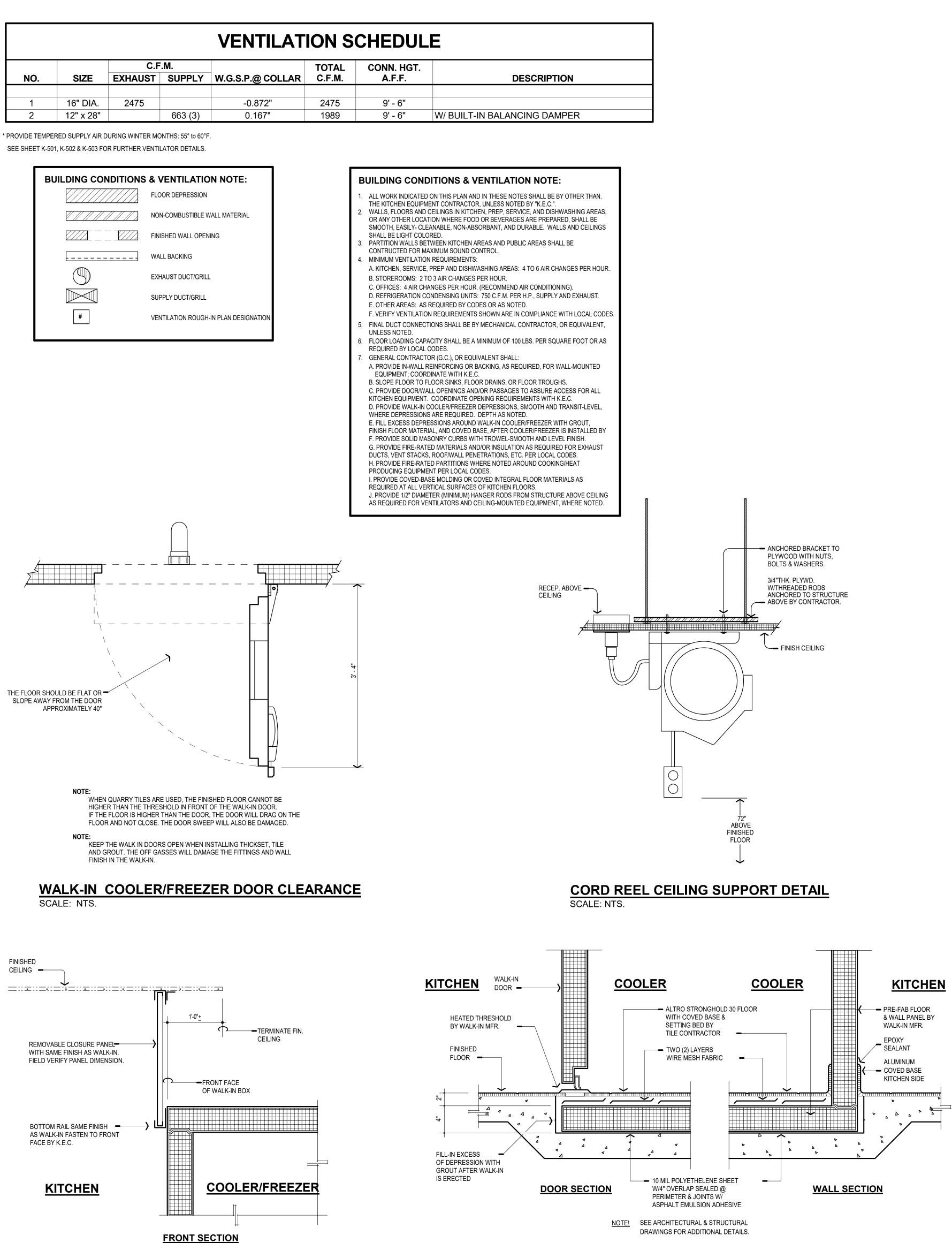


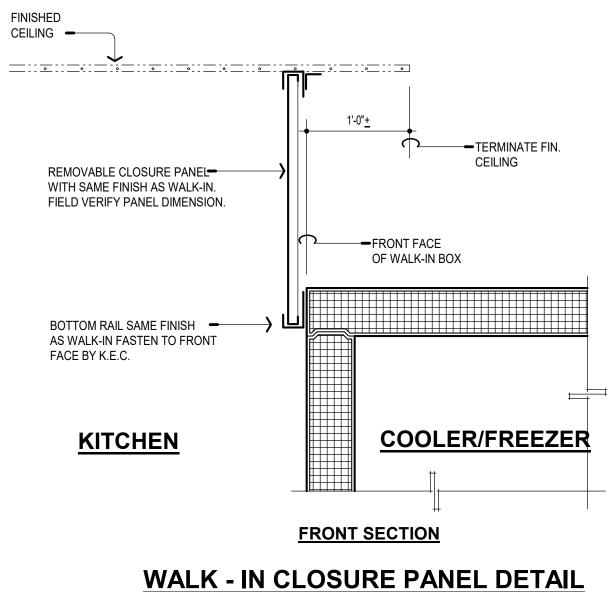


				VENTILAT	ION S
		C.F	.M.		TOTAL
NO.	SIZE	EXHAUST	SUPPLY	W.G.S.P.@ COLLAR	C.F.M.
1	16" DIA.	2475		-0.872"	2475
2	12" x 28"		663 (3)	0.167"	1989







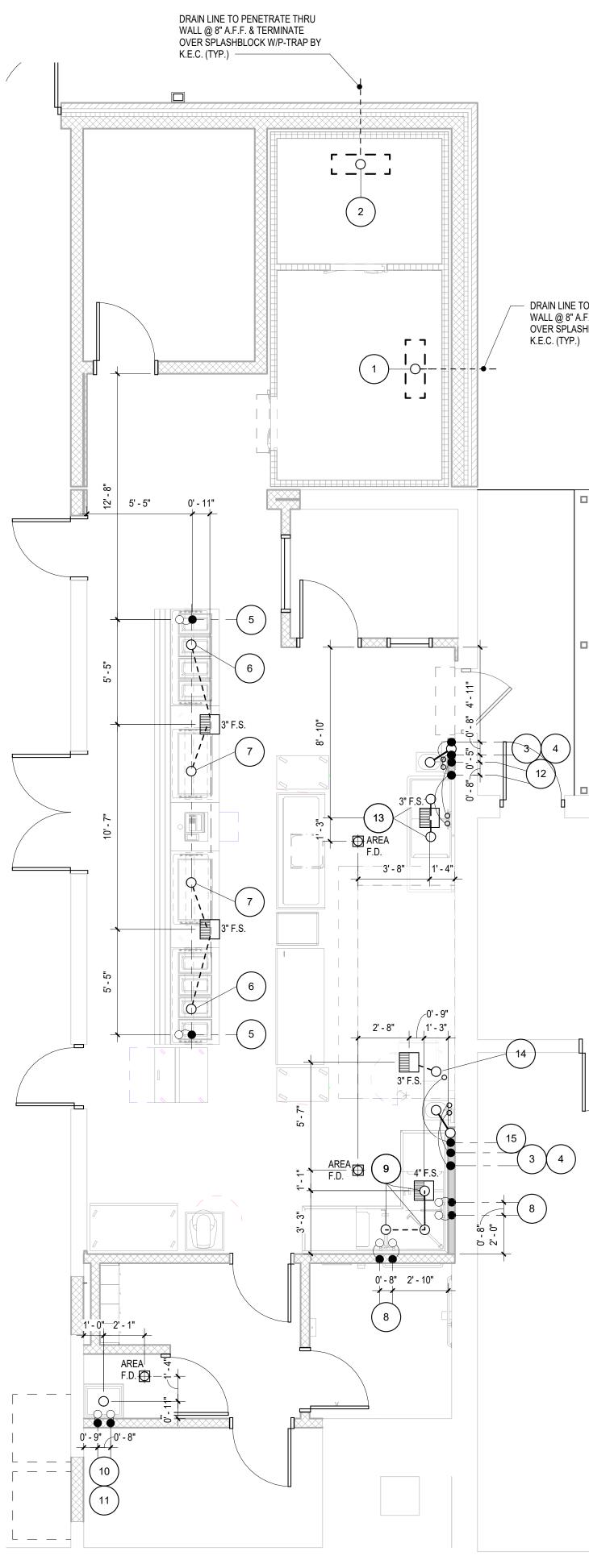


SCALE: NTS.

NOTE: SEE ARCH'L. & MECH'L. SHEET PLAN FOR ROOF CURB DETAIL & PIPE PENETRATION ENCLOSURE DETAIL.

WALK-IN FLOOR DETAIL SCALE: NTS.

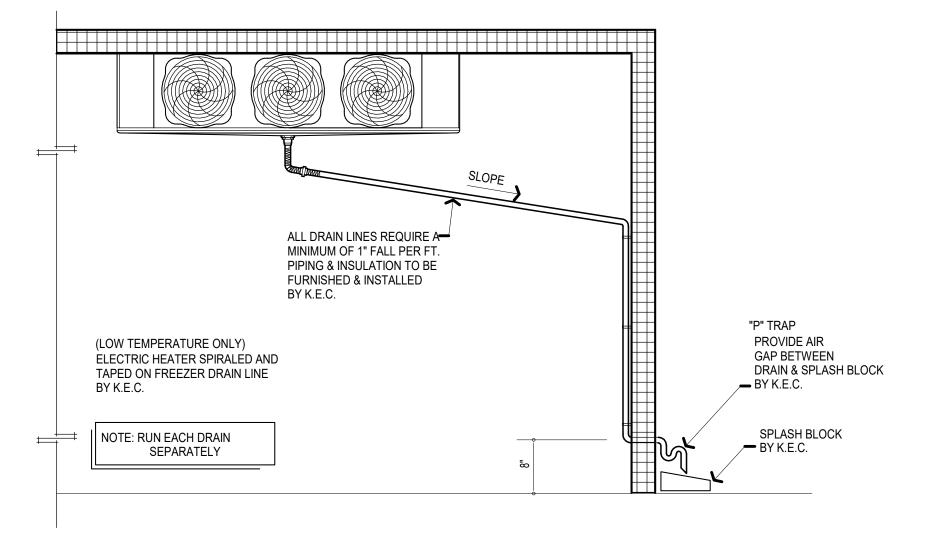




	PLUMBING SCHEDULE											
	WATER		WASTE		ASTE GA				CONN.			
R.I. #	HW	CW	DIR	IND	SIZE	МВН	R.I. HGT. A.F.F.	GPH @ 140°F	SIZE	HEIG HT	DESCRIPTION	EQ. #
1				3/4"					3/4"	84"	COOLER EVAPORATOR COIL DRAIN	3
2				3/4"					3/4"	84"	FREEZER EVAPORATOR COIL DRAIN	4
3	1/2"	1/2"					26"		1/2"	40"	HAND SINK FAUCET	7
4			1 1/2"				24"		1 1/2"	28"	HAND SINK DRAIN	7
5	1/2"						STUB		1/2"	34"	FILL FAUCET	14a
6				3/4"					3/4"	6"	HOT FOOD COUNTER DRAIN	14a
7				3/4"					3/4"	6"	FROST TOP COUNTER DRAIN	14b
8	3/4"	3/4"					15"		3/4"	40"	POT WASHING SINK FAUCET	17
9				2"					2"	22"	POT WASHING SINK DRAIN (3)	17
10	1/2"	1/2"					36"		1/2"	36"	MOP SINK FAUCET	18
11			4"				STUB		4"	3"	MOP SINK DRAIN	18
12	1/2"	1/2"							1/2"	40"	PREP SINK FAUCET	E3
13				1 1/2"					1 1/2"	22"	PREP SINK DRAIN (2)	E3
14				3/4" (2)			12"/46"		3/4"	46"	CONVECTION STEAMER DRAIN (2)	11
15		3/4"					36"		3/4"	36"	CONVECTION STEAMER INLET (2)	11

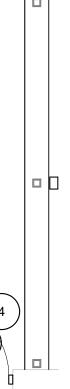
NOTE: PLUMBING CONTRACTOR TO FIELD VERIFY THE EXACT UTILITY LOAD REQUIREMENTS OF THE EXISTING EQUIPMENT TO BE RE-USED.

ABBREVIATION	SYMBOL	DESCRIPTION
ADDICEVIATION	STINDOL	DEGORF HON
H/CW	0 0	HOT/COLD WATER ROUGH-IN AND CONNECTION
W	00	WASTE ROUGH-IN AND CONNECTION
IW	0	INDIRECT WASTE
F.S.		FLOOR SINK W/HALF GRATE (W/MIN. CONN. SIZE)
F.D.	D	FLOOR (AREA) DRAIN
O.S.D.	Ð	OPEN SITE DRAIN (STORM WATER)
D.F.A.		DOWN FROM ABOVE
R.I. #	#	ROUGH-IN NUMBER (SEE PLUMBING SCHEDULE)



EVAPORATOR COIL DRAIN DETAIL SCALE: NTS.

- DRAIN LINE TO PENETRATE THRU WALL @ 8" A.F.F. & TERMINATE OVER SPLASHBLOCK W/P-TRAP BY



NYIKOS ASSOCIATES, INC. Foodservice Facilities Design/Consulting 18219-A Flower Hill Way Gaithersburg, MD 20879 Tel-(240)683-9530 Fax-(240)683-9532

PLUMBING KITCHEN GENERAL NOTES:

1. ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO FOODSERVICE FIXTURES AND EQUIPMENT ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL

PLUMBING REQUIREMENTS. 2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION SIZES, POSITIONS, HEIGHTS AND LOAD REQUIREMENTS. DIMENSIONS SHOWN ARE FROM FINISHED FLOORS AND FINISHED WALLS. VERIFY WALL PARTITION LOCATIONS WITH ARCHITECTURAL DRAWINGS. 3. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY PLUMBING CONTRACTOR INCLUDING REQUIRED MATERIALS SUCH AS, STOPS, MIXING VALVES, FILTERS, TRAPS,

CHECK VALVES, PIPING, TUBING, ETC. TO ASSURE PROPER OPERATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES. 4. PLUMBING CONTRACTOR (P.C.), OR EQUIVALENT, SHALL FURNISH AND INSTALL THE FOLLOWING: A. ALL WATER, WASTE, AND GAS SERVICE TO POINT OF ROUGH-IN AS SHOWN ON

PLAN. ROUGH-IN OUTLETS TO STUB 4" OUT OF WALLS AT HEIGHT INDICATED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. FLOOR ROUGH-INS TO STUB UP 2" ABOVE FINISHED FLOOR OR CURBS. ALL FLOOR OPENINGS/PENETRATIONS ARE TO BE SEALED WATERTIGHT.

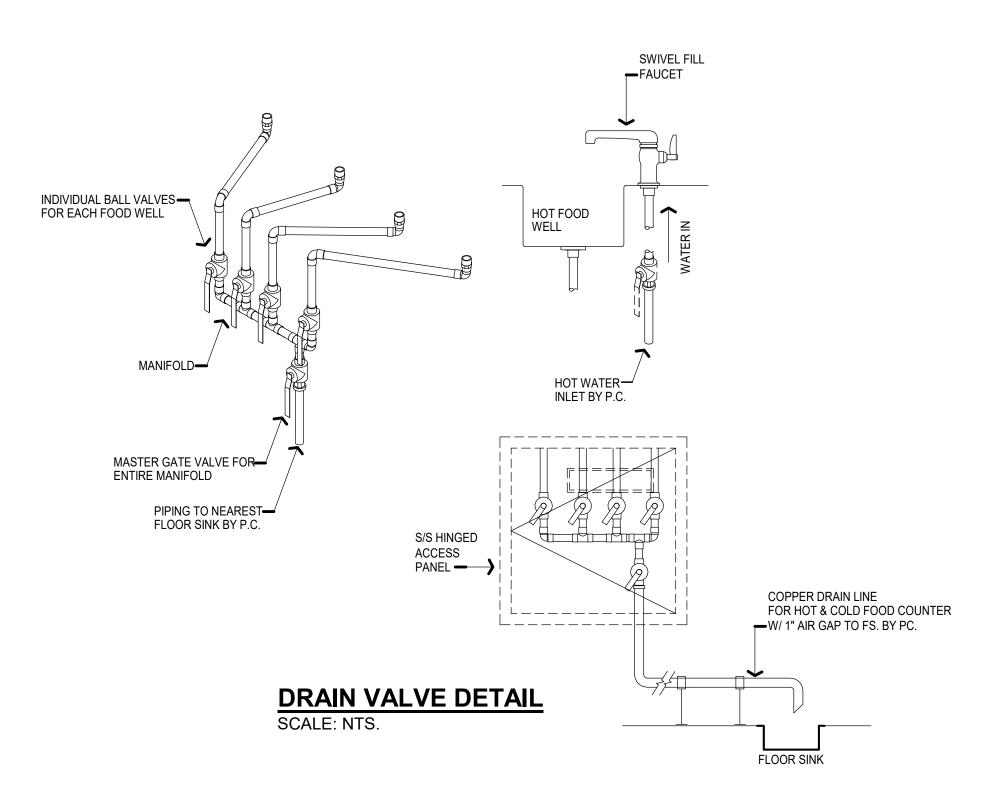
B. PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHERS, BOOSTER HEATERS, OR AS OTHERWISE NOTED IN ALL FOODSERVICE AREAS. C. ALL FLOOR SINKS, COMPLETE WITH TOP GRATES INDICATED, AND REMOVABLE SEDIMENT BUCKETS SET FLUSH WITH FINISH FLOOR, UNLESS NOTED. D. ALL WASTE LINES, DIRECT OR INDIRECT, EXCEPT AS NOTED. MINIMUM DIAMETER OF LINE SHALL BE AS INDICATED ON PLAN REGARDLESS OF CONNECTION SIZE, AND SHALL BE PITCHED DOWNWARD. MAINTAIN DRAIN LINES AS HIGH AS POSSIBLE ABOVE FLOOR FOR SANITATION AND AND CLEANING. ALL WASTE LINES SHALL HAVE ADEQUATE CLEAN-OUT PROVISIONS. E. INDIRECT WASTE LINES FOR WALK-IN COOLER/FREEZER BLOWER COILS SHALL BE PITCHED 1" PER FOOT OF HORIZONTAL RUN, AND TERMINATE WITH A P-TRAP OVER FLOOR SINK OR APPROVED RECEPTER WITH VACUUM BREAK AS REQUIED BY LOCAL CODE. F. ALL REQUIRED GREASE TRAPS, OUTSIDE THE BUILDING WHERE POSSIBLE; OTHERWISE BELOW OR SET FLUSH WITH FINISHED FLOOR. G. INSTALL FIRE CONTROL GAS SHUT-OFF VALVES AS SUPPLIED BY FIRE PROTECTION

SYSTEM SUBCONTRACTOR PER LOCAL CODES. (IF GAS COOKING EQUIPMENT IS SPECIFIED.) H. VACUUM BREAKERS, AS REQUIRED, EXCEPT FOR DISHWASHERS AND DISPOSERS, AS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR. I. ALL WASTE LINE FOR HOT & COLD FOOD COUNTER SHALL BE OF COPPER PIPE TO

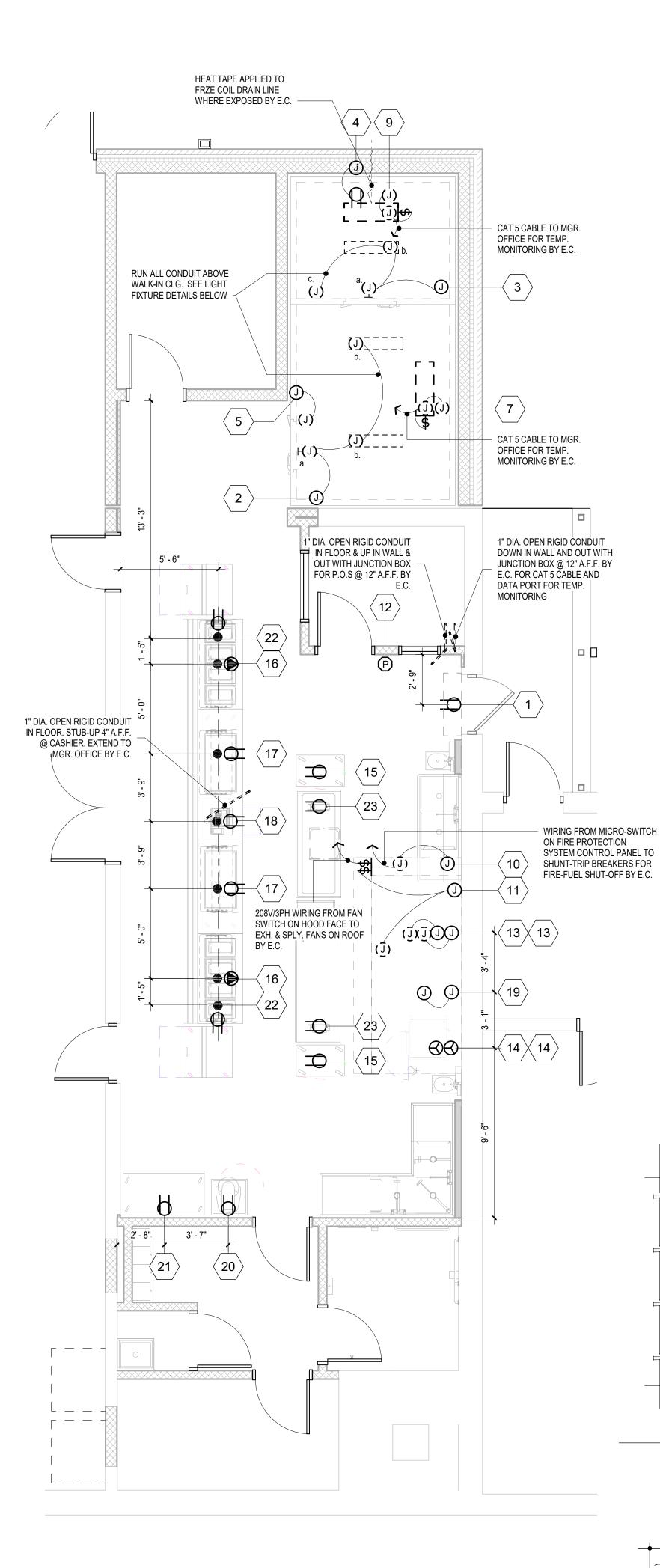
DISCHARGE INDIRECTLY TO THE NEAREST FLOOR SINK WITH 1" AIR GAP. PLUMBING CONTRACTOR (P.C.), OR EQUIVALENT, SHALL INTERCONNECT DISHMACHINE WITH BOOSTER HEATER, AND WATER-TYPE VENTILATORS WITH CONTROL PANELS AS PER MANUFACTURER'S INSTRUCTIONS, WHEN APPLICABLE AND NOTED.

ALL VENT PIPES SHALL BE CONCEALED IN WALLS OR COLUMN CHASES. USE LOOP VENTS FOR ISLAND FIXTURES. ALL EXPOSED PIPING AND FITTINGS IN KITCHEN AREAS SHALL BE CHROME-PLATED OR

STAINLESS STEEL. ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH INTENDED USE OF, OR SERVICING OF EQUIPMENT.





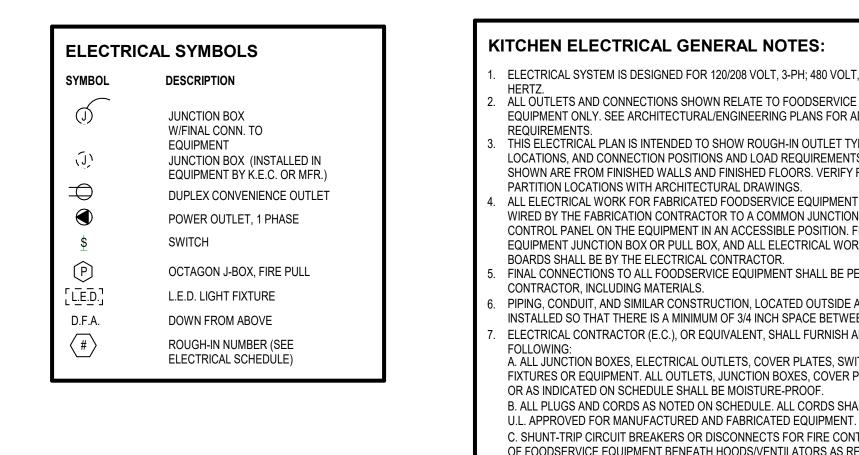


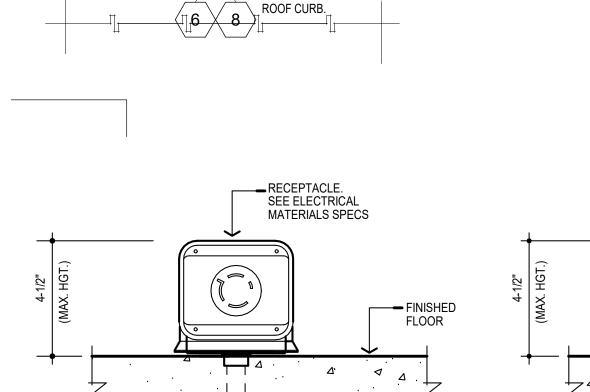
										E.C. TO P	ROVIDE	
R.I.#	НР	ĸw	AMP	VOLTS	PH	R.I. HGT. A.F.F.	DESCRIPTION	E.Q. NO.	CORD & PLUG	RECEP.	DISC.	J.B.
1	1/2"			120	1	50"	FLY FAN RECEP.	1		0		
2						114"	BRANCH TO:					0
2a		1.5 KW		120	1		DOOR LIGHT, HEATER, ALARM	2				
2b		32W(2)		120	1		L.E.D. LIGHT FIXTURE (2)	2				
3						114"	BRANCH TO:					0
3a		1.5 KW		120	1		DOOR LIGHT, HEATER, ALARM	2				
3b		32W		120	1		L.E.D. LIGHT FIXTURE	2				
3c		.100		120	1		HEATED RELIEF PORT	2				
4		.150		120	1		DRAIN LINE HEAT TAPE RECEP.	2		0		0
5			1.50	120	1	114"	AIR SCREEN RECEP.	2		0		0
6			4.1	208	3	STUB	COOLER COMPRESSOR RACK	3				0
7			1.6	120	1	114"	COOLER BLOWER COIL	3				0
8			8.8	208	3	STUB	FREEZER COMPRESSOR RACK	4				0
9			9.8	208	1	114"	FREEZER BLOWER COIL	4				0
10			20.0(Cir.)	120	1	108"	FIRE PROTECTION SYSTEM	9				0
11		350W		120	1	114"	VENTILATOR LIGHT CONTROLLER	9				0
12						48"	HEXAGON J-BOX, FIRE PULL	9				0
13			31.0(2)	208	3	24"/36"	CONVECTION OVEN	10				0
14			28.0(2)	208	3	24"/36"	CONVECTION STEAMER	11				
15		1.0		120	1	@CLG.	HEATED CABINET RECEP.	E10		0		
16			32.0	120/208	1	STUB	HOT FOOD COUNTER RECEP.	14a		0		
17			7.0	120	1	STUB	FROST TOP COUNTER RECEP.	14b		0		
18			15.0	120	1	STUB	CASH REGISTER RECEP.	15		0		
19		17.0		208	3	24"	RANGE	E4				0
20			9.0	120	1	36"	MIXER RECEP.	E5		0		
21			5.80	120	1	88"	REACH-IN REFRIGERATOR RECEP.	E7		0		
22			5.50	120	1	STUB	MILK COOLER RECEP.	E11		0		
23			20.0	120	1	@CLG.	RETRACTABLE CORD REEL RECEP.	19		0		

(1) SEE SHEET ??? FOR EXACT LOCATION. ITEM FURNISHED W/MAIN-FUSED DISCONNECT SWITCH.

(2) EXTEND CONDUIT DOWN FROM JUNCTION BOX MOUNTED ABOVE FINISH CEILING TO CONTROL PANEL BY E.C. SEE SHEET K-501, K-502 & K-503 FOR FURTHER VENTILATOR DETAILS. (3) EXTEND 1/2" DIA. OPEN RIGID CONDUIT FROM TOP OF PULL BOX UP IN WALL TO 6" ABOVE FINISH CLG. BY E.C. (4) ELECTRICAL CONTRACTOR TO PROVIDE TWIST-LOCK PLUG & MATCHING RECEPTACLE. SEE DETAIL THIS SHEET.

NOTE: ITEM # E4 RANGE W/ OVEN BASE, #E5 MIXER, #E7 REACH-IN REFRIGERATOR, #E10 HEATED CABINET, #E11 MILK COOLER. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT UTILITY LOAD REQUIREMENTS OF THE EXISTING EQUIPMENT TO BE RE-USED.





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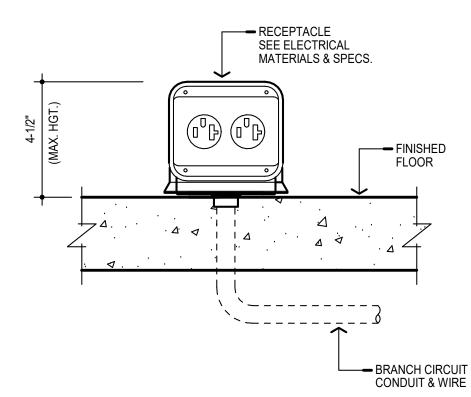
— EXTEND CONDUIT UP

THRU PITCH POCKET IN

•**-**•-

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FLOOR RECEPTACLE DETAIL

CONDUIT & WIRE

SCALE: NTS.

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ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLT, 3-PH; 480 VOLT, 3-PH, 4-WIRE, 60

ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO FOODSERVICE FIXTURES AND EQUIPMENT ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL ELECTRICAL

THIS ELECTRICAL PLAN IS INTENDED TO SHOW ROUGH-IN OUTLET TYPES, HEIGHTS AND LOCATIONS, AND CONNECTION POSITIONS AND LOAD REQUIREMENTS. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS AND FINISHED FLOORS. VERIFY FINISH WALL

ALL ELECTRICAL WORK FOR FABRICATED FOODSERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY THE FABRICATION CONTRACTOR TO A COMMON JUNCTION BOX, PULL BOX, OR

CONTROL PANEL ON THE EQUIPMENT IN AN ACCESSIBLE POSITION. FINAL CONNECTIONS TO EQUIPMENT JUNCTION BOX OR PULL BOX, AND ALL ELECTRICAL WORK FROM MAIN PANEL FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT SHALL BE PERFORMED BY THE ELECTRICAL

PIPING, CONDUIT, AND SIMILAR CONSTRUCTION, LOCATED OUTSIDE A WALL, MUST BE INSTALLED SO THAT THERE IS A MINIMUM OF 3/4 INCH SPACE BETWEEN IT AND THE WALL.

ELECTRICAL CONTRACTOR (E.C.), OR EQUIVALENT, SHALL FURNISH AND INSTALL THE A. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC. NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC. IN DISHROOMS B. ALL PLUGS AND CORDS AS NOTED ON SCHEDULE. ALL CORDS SHALL BE N.E.M.A. RATED AND

C. SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE CONTROL SYSTEM SHUT-OFF OF FOODSERVICE EQUIPMENT BENEATH HOODS/VENTILATORS AS REQUIRED BY N.F.P.A.-96, LATEST EDITION, AND LOCAL CODES. D. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODES.

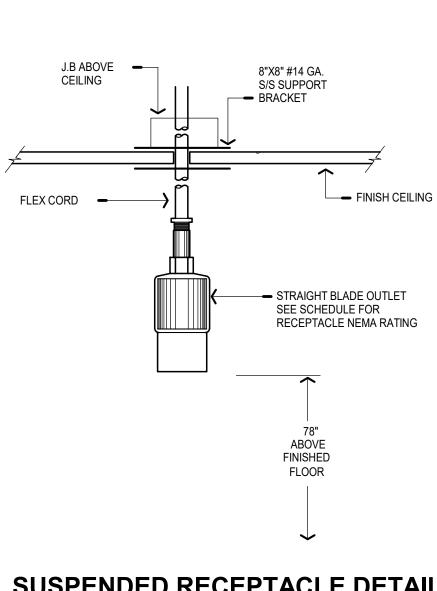
WHEN APPLICABLE, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY K.E.C.), AND INTERWIRE BETWEEN THE FOLLOWING: A. REMOTE REFRIGERATION SYSTEMS TO EVAPORATOR COILS. B. WALK-IN COOLER/FREEZER LIGHTS (RUN CONDUIT ABOVE COMPARTMENT CEILING).

C. REMOTE WALK-IN COOLER/FREEZER ALARM SYSTEMS (WHEN USED). D. CONTROL PANELS TO VENTILATORS AND EXHAUST/SUPPLY FANS PER MANUFACTURER'S

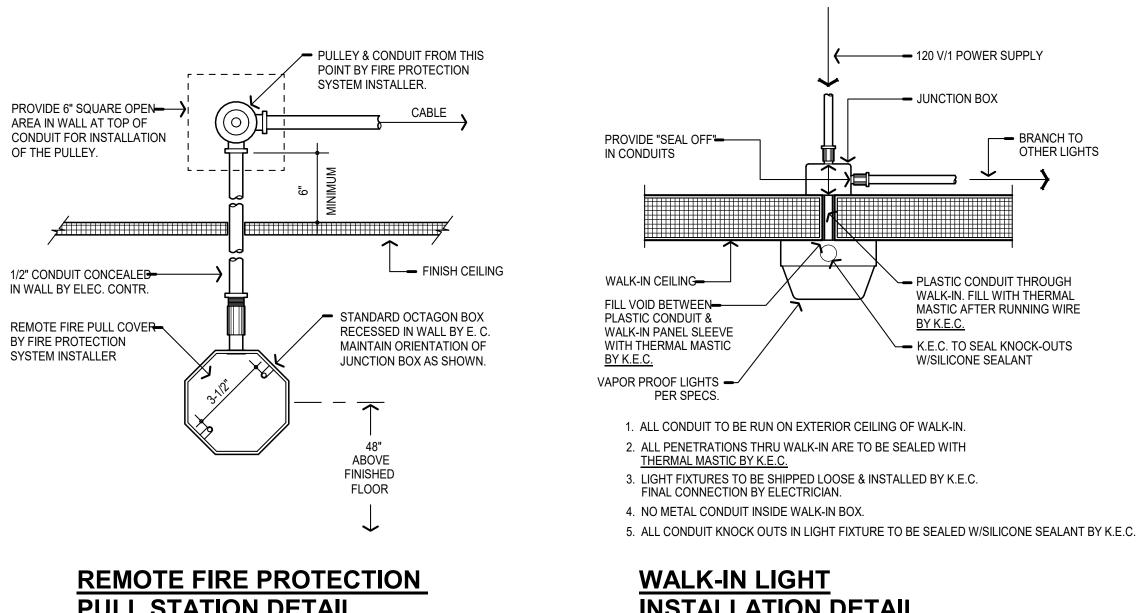
E. KITCHEN EXHAUST HOODS/VENTILATORS TO FIRE CONTROL SYSTEM, BUILDING

INSTRUCTIONS.

ANNOUNCIATOR AND SHUT-OFF.



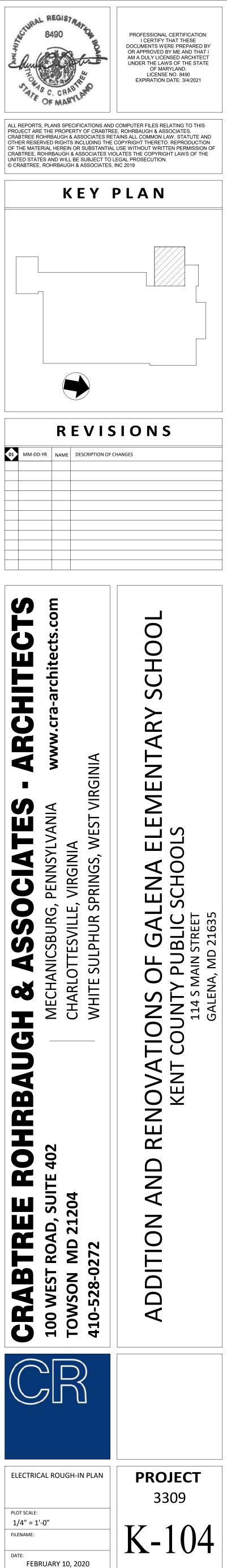
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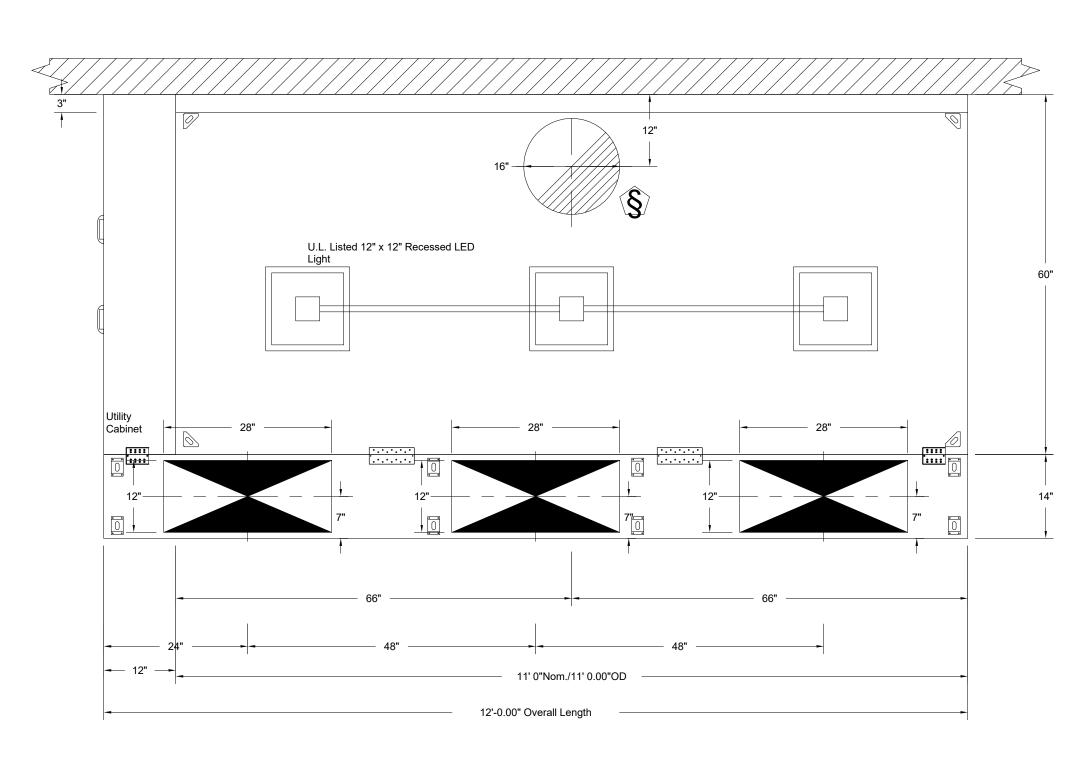


PULL STATION DETAIL SCALE: NTS.



INSTALLATION DETAIL SCALE: NTS.

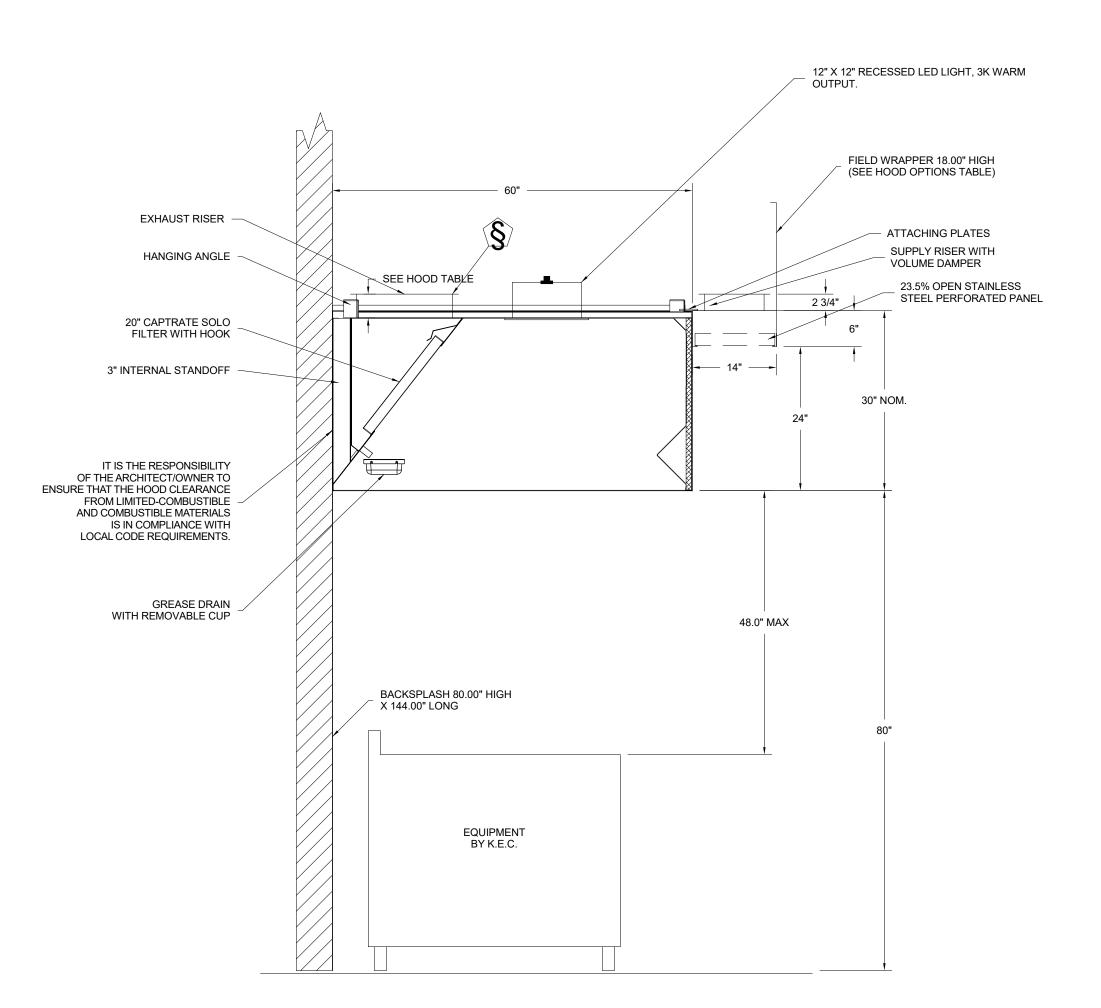


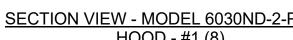


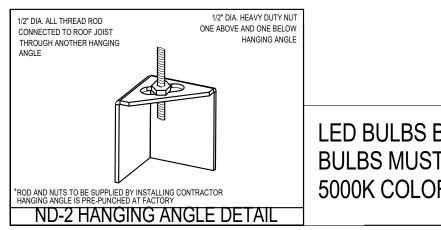
PLAN VIEW - Hood #1 (8) 11' 0.00" LONG 6030ND-2-PSP-F

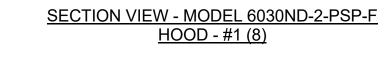
HOOD		RMATION - J	ob#4133
HOOD NO.	TAG	MODEL	LENGTH

						HOOD NO.	TAG	MODEL		MAX. COOKING APPL		DESIGN	TOTAL		E	XHAUST F RISER				TOTAL SUPPLY		HOOD		CONFIG.
						NO.	TAG	MODEL	LENGTH		UTY	CFM/ft	EXH. CFM	WIDTH	H LENG. HEIGHT		` (VEL.	S.P.	CFM	CON	CONSTRUCTION	I END TO END	ROW
						1	8	6030 ND-2-PSP-F	11' 0"	600 Deg. He	eavy	225	2475		4	" 16'	' 2475	5 1773	-0.872"	1989		304 SS 100%	ALONE	ALO
OOD	INFOR	MATION																						
	_			ER(S)					LIGHT(S)					1		ITILITY CA	ABINET (S			A1	0)4//-		- FIRE	НООІ
iood No.	TAG	TYPE	QTY.	HEIGHT	LENGTH	EFFICIEN MICRC	CY @ 7 NS	QTY.	TYPE	WIRE GUARD	LOCAT	ION	SIZE	TY	PE	SYSTEM SI	ZE		ELECTRIC MODEL #					IHANGI
1	8	Captrate Solo Filter	8	20"	16"	85% See Spec		3	12" x 12" LED	NO	Left	t	12"x60"x30"	Ansul	I R102	3	.0		DCV-111	1		Light Fan	YES	847 LBS
																Н			1S	I				
																	OD NO.				OF	PTION		
																		F	IELD WR	APPER 18	.00" Hic	h Front, Le	ft. Right	
																						, 144.00" Lo		Vertical
																	1	8 –	STRUCTUR		•		.9	
																			SENSOR-C					
																				v				
														PERF	ORATED	SUPPL	Y PLE	NUM(S))					
																				-		RIS	ER(S)	1
														HOOD N	Ψ. IAG	POS. L	ENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG.	IA. CFM	S.P
																				MUA	12"	28"	663	0.16
														1	8	Front	144"	14"	6"					









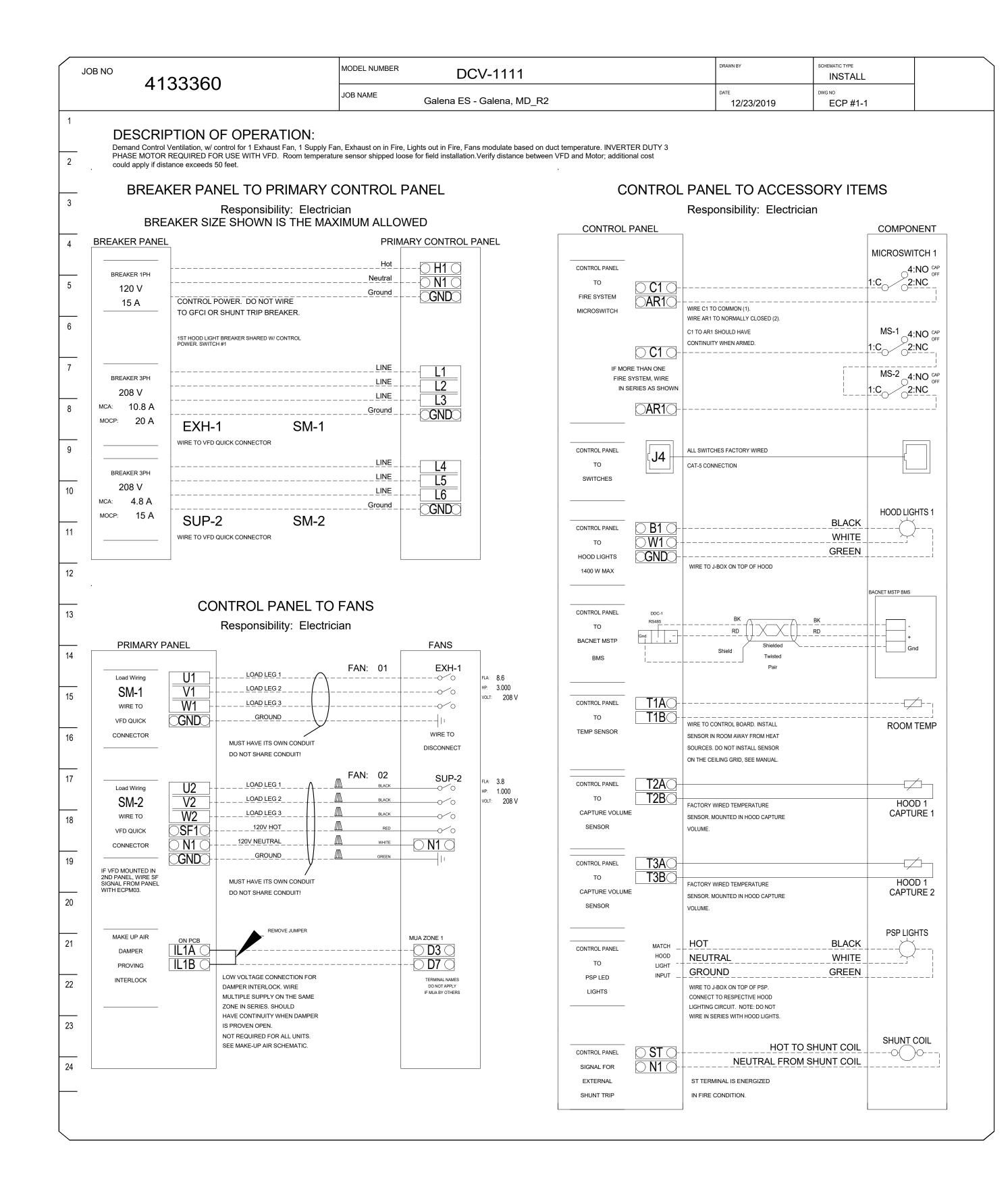
BY K.E.C. ST BE RATED FOR DR TEMPERATURE CAPTIVE-AIRE HOOD ARE BUILT IN COMPLIANCE WITH: ETL LISTED #3054804-001 ETL SANITATION LISTED NFPA #96	FOR QUESTIONS CONTACT CAPTIVEAIRE 2221 KANSAS AVE, SILVER SPRING, MD 20910 PHONE: (301) 357-8929 REG32@CAPTIVEAIRE.COM
--	---

KANYIKOS Foodservice Facilities Design/Consulting 18219-A Flower Hill Way
Gaithersburg, MD 20879 Tel-(240)683-9530
Fax-(240)683-9532

663 0.167"

MUA 12" 28"





ELECTRICAL PACKAGE: FP SERIES

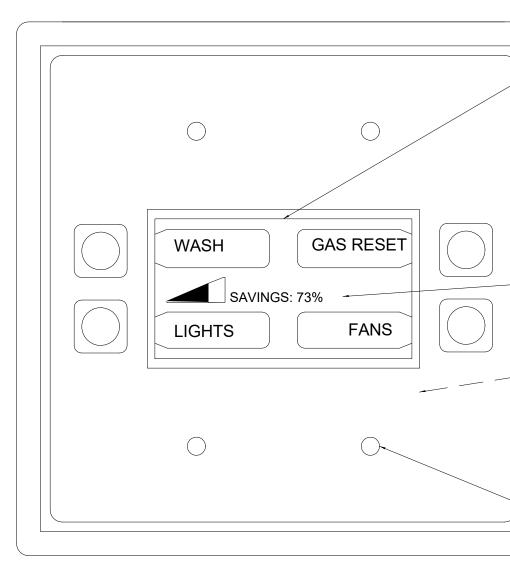
ALL POWER, LIGHTING, MICROSWITCH AND TEMPERATURE PROBE CONNECTIONS AND INTERLOCKS TO BE COMPLETED BY ELECTRICAL CONTRACTOR PER SCHEMATICS PROVIDED WITH EQUIPMENT.

TWO METHODS TO ACTIVATE EXHAUST SYSTEM: 1. ENGAGE FAN SWITCH IN THE "ON" POSITION TO ENERGIZE CONTACTOR(S) AND START THE EXHAUST FAN(S). SUPPLY FAN(S), IF PRESENT, WILL BE ACTIVATED BY FACTORY PRE-WIRED INTERLOCK. 2. TURN ON COOKING APPLIANCES. EXHAUST FAN(S) [AND SUPPLY FAN(S), IF PRESENT] WILL AUTOMATICALLY ENERGIZE WHEN DUCT TEMPERATURE EXCEEDS SET-POINT (FACTORY PRE-SET = 85°F). AUTOMATIC ACTIVATION COMPLIES WITH IMC 507.2.1.1 "OPERATION." FAN(S) WILL DISENGAGE WHEN DUCT TEMPERATURE FALLS BELOW SET-POINT.

FIRE CONDITION IN THE EVENT OF A FIRE, A SIGNAL IS SENT ACROSS THE NORMALLY OPEN DRY CONTACT OF THE FIRE SUPPRESSION SYSTEM MICROSWITCH (INTERLOCKED WITH HOOD CONTROL PANEL BY ELECTRICIAN). EXHAUST FAN(S) TO REMAIN RUNNING, SUPPLY FAN(S) TO DE-ENERGIZE, LIGHTING CIRCUIT(S) TO DE-ENERGIZE. MICROSWITCH MUST BE RESET PRIOR TO RESUMPTION OF NORMAL OPERATION.

DUCT TEMPERATURE SENSOR ROOM TEMPERATURE SENSOR

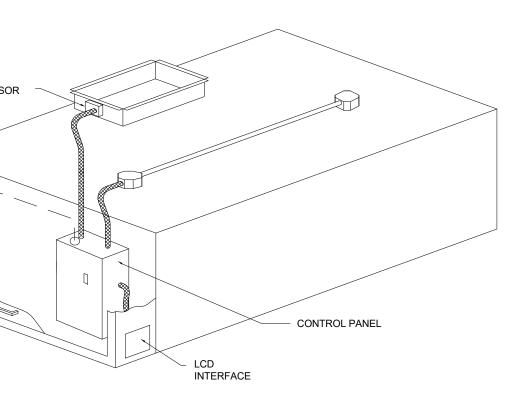
SEQUENCE OF OPERATION - HOOD CONTROLS



NYIKOS ASSOCIATES, INC. Foodservice Facilities Design/Consulting 18219-A Flower Hill Way 📕 Gaithersburg, MD 20879 Tel-(240)683-9530 Fax-(240)683-9532

ELECTRICAL	PACKA	GE - Job#413336	30
			<i></i>

	NO.	TAG	PACKAGE #	LOCATION	SWITCH	IES	OPTION	FANS CONTROLLED					
					LOCATION	QUANTITY		TYPE	ф	H.P.	VOLT	FLA	
	1		DCV-1111	Utility Cabinet Left	03 - Utility Cabinet Left	1 Light	Smort Controls DCV	Exhaust	3	3.000	208	8.6	
'	'		DCV-IIII	Othing Cabinet Left	Hood # 1	1 Fan	Smart Controls DCV	Supply	3	1.000	208	3.8	



TYPICAL HOOD CONTROL PANEL INSTALLATION

ALARM INDICATING LCD SCREEN. BUTTON FUNCTIONS VARY BY MODEL TYPE.

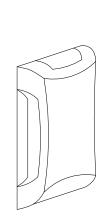
DEMAND CONTROL VENTILATION SAVINGS INDICATOR

CAT-5 CONNECTION ON REVERSE. -CONNECTED TO HOOD CONTROL

PANEL.

MOUNTS IN STANDARD DOUBLE GANG JUNCTION BOX

ROOM TEMPERATURE SENSOR



The Room Temperature sensor is a 10K Ohm Thermistor. The sensor provides constant room temperature to the controller. It should be installed on a wall somewhere in the space but not directly under the hood or close to an appliance so that the reading is not affected by heat.

Typically a system will have one room temperature sensor. However, systems configured with 2 fan zones have the option to be ordered with 2 room temperature sensors, one for each zone. They should be mounted in the space accordingly.



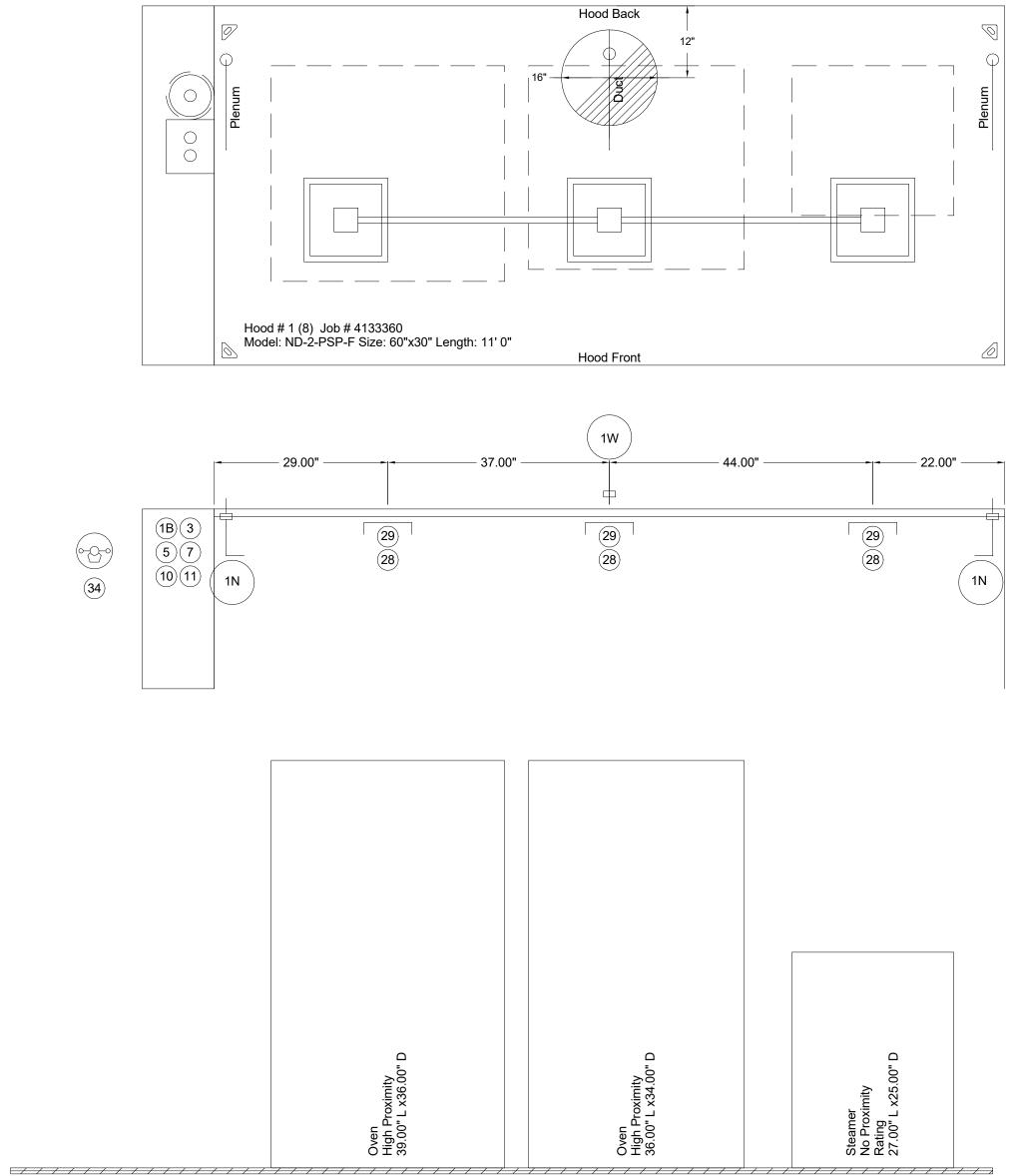
SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

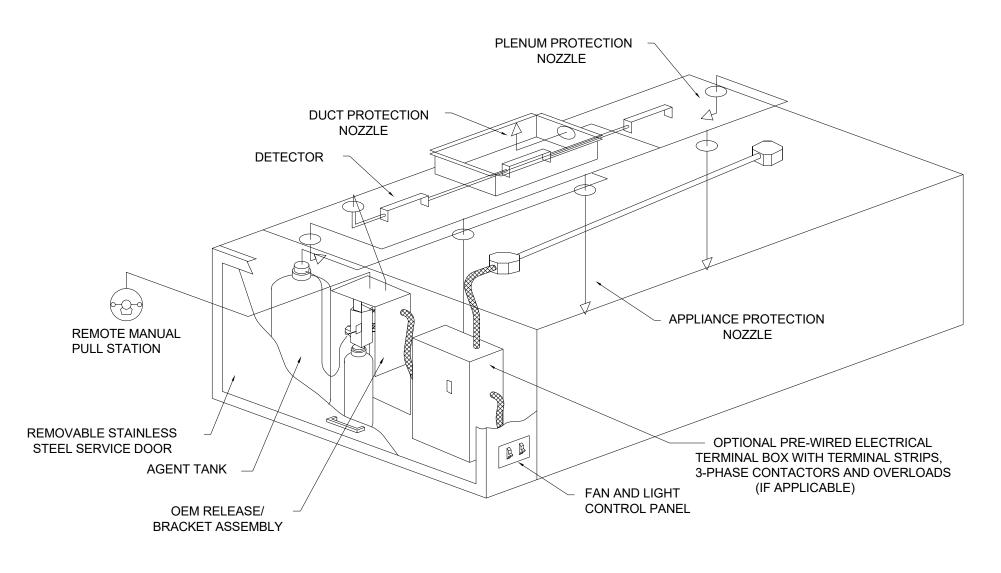
THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

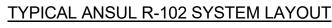


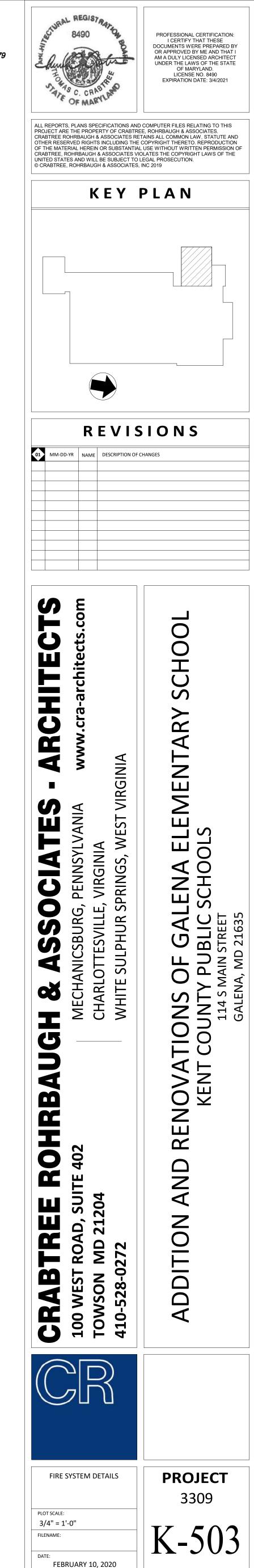
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STRUCTURAL NOTES

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE AND ASCE 7-16

ANY REFERENCES TO VARIOUS TRADE CODES THROUGHOUT THESE NOTES ARE TO THE YEAR OF THE CODE CITED IN THE ABOVE REFERENCE BUILDING CODE.

DESIGN LIVE LOADS

ROOF STRUCTURAL ELEMENTS SHALL BE DESIGNED FOR THE MORE CRITICAL OF THE FOLLOWING LOAD CASES CASE 1 30 PSF MINIMUM (NOT REDUCIBLE) CASE 2 SNOW LOAD BASED ON 25 PSF GROUND SNOW LOAD WITH APPLICABLE DRIFT AND SLIDING LOADS

ROOF SNOW LOAD DESIGN DATA:

FLAT ROOF SNOW LOAD (Pf) - 19.3 PSF SNOW EXPOSURE FACTOR (Ce) – 1.0 SNOW LOAD IMPORTANCE FACTOR (I) - 1.1 THERMAL FACTOR (Ct) – 1.0

FLOORS: THE FLOOR AREAS HAVE BEEN DESIGNED FOR THE FOLLOWING MINIMUM LIVE LOADS.

SLAB ON GRADE 150 PSF

EQUIPMENT SUPPORTS DESIGNED FOR ACTUAL LOADS INDICATED ON THE DRAWINGS

DESIGN DEAD LOADS

ROOF 30 PSF (TOTAL INCLUDING SELF WEIGHT)

LATERAL LOADS

WIND LOAD ANALYSIS **RISK CATEGORY**

ULTIMATE WIND SPEED (Vult) 120 MPH NOMINAL WIND SPEED (Vasd) 93 MPH WIND EXPOSURE

INTERNAL PRESSURE COEFFICIENT +/- 0.18

NET WIND UPLIFT ON ROOF WITH RESPECT TO METAL DECK AND STEEL FRAMING TO BE PER THE LOADS IN THE COMPONENTS AND CLADDING WIND CHART ON SHEET S0.2.

SEISMIC LOAD ANALYSIS RISK CATEGORY

SEISMIC DESIGN CATEGORY

RISK CATEGORT	111
SEISMIC IMPORTANCE FACTOR(Ie)	1.25
MCE SPECTRAL RESPONSE ACCELERATION PARAMETER - SHORT (Ss)	0.147
MCE SPECTRAL RESPONSE ACCELERATION PARAMETER - 1 second (S1)	0.043
SITE CLASS	D
SOIL SITE COEFFICIENT (FA / FV)	1.6 / 2.4
DESIGN EQ SPECTRAL RESPONSE ACCEL. PARAMETER - SHORT (Sds)	0.157
DESIGN EQ SPECTRAL RESPONSE ACCEL. PARAMETER - 1 second (Sd1)	0.069

LATERAL ANALYSIS OF RENOVATION SHOWS THAT LATERAL MEMBER DEMAND-TO-CAPACITY RATIOS ARE INCREASED BY LESS THAN 10 PERCENT AFTER ALTERATIONS; NO REMEDIATION OF THE LATERAL SYSTEM IS REQUIRED PER IEBC SECTION 403.4 EXCEPTION.

GENERAL NOTES

REFER TO THE ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL SLEEVES, ANCHORS, VENT OPENINGS, ETC. NOT SHOWN ON THE STRUCTURAL PLANS.

ALL MATERIALS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS NOTED IN THE STRUCTURAL NOTES AND PROJECT SPECIFICATIONS BASED ON THE FINAL DATE NOTED ON THE CONSTRUCTION DOCUMENTS.

THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL SHORING AND BRACING FOR THE STRUCTURE IF ACTUAL CONSTRUCTION LOADS EXCEED THE DESIGN LOADS.

ALL DIMENSIONS AND NOTES SHALL SUPERSEDE ALL SCALE REFERENCES ON THE DRAWINGS.

ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE CONTRACTOR SHALL HIRE AN EXPERIENCED, QUALIFIED SPECIAL INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. ADTEK ENGINEERS WILL NOT PERFORM THE CONTINUOUS DAILY SPECIAL INSPECTIONS DURING CONSTRUCTION. ADTEK ENGINEERS MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING THE DAILY SPECIAL INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.

NEW RTU CONNECTION TO THE CURBS AND THE CURB CONNECTIONS TO THE NEW SUPPORT FRAMING BELOW THE ROOF SHALL BE IN ACCORDANCE WITH THE RTU MANUFACTURER'S RECOMMENDATIONS.

IT IS THE INTENT OF THESE DRAWINGS FOR ALL DISCIPLINES AND SPECIFICATIONS TO PRODUCE A COMPLETE PROJECT. IN ALL CASES THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED, PRICED, ESTIMATED, AND CONSTRUCTED IN THEIR ENTIRETY. THE DRAWINGS ARE COMPLEMENTARY TO ONE ANOTHER AND THE SPECIFICATIONS. ANYTHING SHOWN OR IMPLIED ON ANY ONE DRAWING MUST BE PROVIDED, INSTALLED AND CONNECTED AS THOUGH IT WAS SHOWN ON ALL DRAWINGS AND INCLUDED IN THE ORIGINAL PRICING. NO REQUEST FOR ADDITIONAL COST OR CHANGE ORDER WILL BE ACCEPTED BY THE OWNER FROM ANY CONTRACTOR, SUPPLIER, OR INSTALLER THAT RESULTS FROM A FAILURE TO THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS, COORDINATE WITH OTHER TRADES, OR THOROUGHLY INSPECT THE SITE TO DETERMINE ALL EXISTING CONDITIONS.

IF AN ASSUMED OR ACTUAL CONFLICT IS DISCOVERED IN THE CONTRACT DOCUMENTS, THE MORE EXPENSIVE OR HIGHER QUALITY OPTION (AS DETERMINED BY THE ARCHITECT/ENGINEER) SHALL BE ASSUMED TO APPLY UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER.

THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND AS ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF THE CONTRACT DOCUMENTS AND OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, THE ARCHITECT/ENGINEER SHALL DIRECT WORK TO PROCEED BY THE METHOD INDICATED, SPECIFIED OR REQUIRED BY CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE ARCHITECT/ENGINEER. SUCH DIRECTION BY THE ARCHITECT/ENGINEER SHALL NOT ENTITLE THE CONTRACTOR TO ANY CLAIM FOR EXTRA COST.

CONTRACTOR RESPONSIBILITIES

THE FOLLOWING LIST IS NOT INTENDED TO BE ALL INCLUSIVE, BUT MERELY TO PLACE EMPHASIS ON PARTICULAR ITEMS OF JOB SCHEDULING AND SAFETY

- I. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW, ALLOWING A MINIMUM OF TWO WEEKS FOR REVIEW BY THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REDESIGN OF THE STRUCTURAL SUPPORTS OF EQUIPMENT WHEN THE OPERATING WEIGHT OF THE EQUIPMENT PROVIDED (INCLUDING CURBS AND ACCESSORIES) EXCEEDS THE MAXIMUM DESIGN WEIGHTS NOTED ON THE STRUCTURAL DRAWINGS. SUBMIT STRUCTURAL CALCULATIONS AND DETAILS FOR THE REVISED EQUIPMENT SUPPORT TO THE PROJECT ARCHITECT FOR REVIEW. THE SUBMITTAL SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION.
- 3. IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.
- 4. THE CONTRACTOR SHALL NOTIFY THE PROJECT SPECIAL INSPECTOR IN ADVANCE OF WORK REQUIRING INSPECTIONS OR ON-SITE PERSONNEL. COORDINATE ADVANCE NOTIFICATION REQUIREMENTS WITH THE SPECIAL INSPECTOR.
- 5. IF THE CONTRACTOR ANTICIPATES A PROBLEM THAT WILL REQUIRE ASSISTANCE FROM THE PROJECT STRUCTURAL ENGINEER, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE THE ENGINEER WITH MINIMUM 24 HOURS NOTICE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION IS ACCORDING TO THE SIGNED AND SEALED CONSTRUCTION DOCUMENTS AND THE REVIEWED SHOP DRAWINGS
- 7. THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION TO DESIGN AND DETAIL THE SUBMITTAL ITEMS NOTED IN THE DEFERRED SUBMITTALS BELOW.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BETWEEN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. IT IS NOT INTENDED THAT THE STRUCTURAL DRAWINGS BE USED INDEPENDENTLY OF THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES, INCLUDING DIMENSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR METHODS TO ENSURE CONSTRUCTION SAFETY AT THE SITE THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION. SEE O.S.H.A. & M.O.S.H. REGULATIONS FOR CONSTRUCTION.
- 10. UPON STRUCTURAL COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE SPECIAL INSPECTOR SUBMIT A LETTER OF CERTIFICATION INDICATING THAT THE STRUCTURE IS IN COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CONCRETE TEST REPORTS AND CODE REQUIREMENTS. THIS LETTER MUST BE REVIEWED BY THE ARCHITECT AND ENGINEER OF RECORD BEFORE SUBMITTAL.
- SUBMITTALS NOTES
- 1. SUBMIT THE SHOP DRAWINGS NOTED BELOW TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
- 2. DEFERRED SUBMITTALS (DRAWINGS AND CALCULATIONS) NOTED BELOW SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION. THE ENGINEER MUST HAVE A MINIMUM OF THREE YEARS EXPERIENCE IN THE DESIGN OF THE TYPE OF STRUCTURAL COMPONENT REQUIRED FOR THE SUBMITTAL. THE ENGINEER SHALL PERFORM PERIODIC FIELD OBSERVATIONS AND ISSUE A FINAL CERTIFICATION FOR THE FINAL CONSTRUCTION OF THE STRUCTURE INCLUDED IN THEIR SUBMITTAL.

DRAWINGS IS PROHIBITED.

DEFERRED SUBMITTALS FOR THEIR REVIEW.

	IBMITTALS
Α.	CONCRETE MIX DESIGN BY
	(EACH SUBMITTED MIX MUS
Β.	CONCRETE REINFORCING
С.	MASONRY REINFORCING
D.	STRUCTURAL STEEL
Ε.	STEEL JOISTS
F.	METAL DECK (INCLUDING S
G.	MISCELLANEOUS METALS F
Η.	CMU PARTITION SUPPORT

DEFERRED SUBMITTALS

SPECIAL INSPECTIONS

1. FOUNDATION SUBGRADES AND FILL PLACEMENT 2. CONCRETE REINFORCING 3. CONCRETE MIX AND PLACEMENT

4. MASONRY REINFORCING 5. MASONRY GROUT 6. STRUCTURAL STEEL ERECTION

7. STEEL JOISTS 8. METAL DECKING

9. POST-INSTALLED ANCHORS

FOUNDATION

63 PSF PER FOOT OF DEPTH

ASSUMED SOIL BEARING VALUE SUBSURFACE INVESTIGATION

FOR THE PROJECT.

ALL SPREAD FOOTINGS SHALL EXTEND MINIMUM 1'-0" INTO UNDISTURBED SOIL OR SHALL BEAR ON COMPACTED STRUCTURAL FILL. PLACE THE FILL REQUIRED TO BRING THE SUBGRADE TO THE PROPER ELEVATION PRIOR TO

INSTALLING THE FOUNDATION. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'- 0" BELOW THE FINISHED EXTERIOR GRADE UNLESS NOTED OTHERWISE.

THE ELEVATION AT THE TOP OF FOOTINGS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN. NOTES AND SECTIONS. THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS ARE FOR ESTIMATION PURPOSES ONLY. LOWER THE FOOTING ELEVATIONS, IF REQUIRED, TO ACHIEVE THE REQUIRED DESIGN BEARING CAPACITY OR FOR COORDINATION WITH UTILITIES.

CONSTRUCTION.

BACKFILL OF BELOW GRADE FOUNDATION WALLS

THE CONTRACTOR SHALL NOT OVERLOAD THE WALL WITH HEAVY EQUIPMENT DURING PLACEMENT OF BACKFILL ADJACENT TO THE WALL. ONLY LIGHTWEIGHT (A MAXIMUM OF THREE TON TOTAL WEIGHT) EQUIPMENT SHALL BE PERMITTED WITHIN THE CRITICAL ZONE DEFINED AS BEGINNING AT THE BASE OF THE WALL AND WIDENING UPWARD FROM THE BASE AT A 1:1 SLOPE.

STRUCTURAL COMPACTED FILL STRUCTURAL COMPACTED FILL FOR FOUNDATIONS AND SLAB ON GRADE SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER AND COMPACTED PER THE GEOTECHNICAL REPORT.

EXISTING CONDITIONS

ALL EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BEFORE EXCAVATION, DEMOLITION, OR CONSTRUCTION IS BEGUN. EXISTING UTILITIES SHALL BE LOCATED AND PROTECTED AS REQUIRED BY THE EXCAVATION, DEMOLITION, OR CONSTRUCTION. FIELD MEASUREMENTS SHALL BE MADE OF ADJOINING CONSTRUCTION RELATIVE TO THE PROPER INSTALLATION OF NEW WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK IN THE AREA OF THE DISCREPANCY.

SHORING OF BUILDING STRUCTURAL MEMBERS

THE CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING STRUCTURE IN THE AREA OF THE PROPOSED SHORING. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF THE DESIGN AND REPAIR OF EXISTING STRUCTURES AND/OR FINISHES DAMAGED DURING SHORING OPERATIONS.

STRUCTURAL CONCRETE

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A1064. DETAILING SHALL BE IN ACCORDANCE WITH ACI MANUAL 315 AND STANDARD 318. CONCRETE SHALL BE NORMAL WEIGHT. CONCRETE MIX DESIGN TABLE ON THIS SHEET INDICATES DESIGN

COMPRESSIVE STRENGTH AT 28 DAYS. WATER/CEMENT RATIOS. AND ENTRAINED AIR CONTENT REQUIRED. MAXIMUM AGGREGATE SIZE FOR CONCRETE SHALL BE IN ACCORDANCE WITH THE MAXIMUM AGGREGATE SIZES IN ACI 318 AND AS FOLLOWS:

FOOTINGS CONCRETE SLABS ON GRADE 3/4"

CONCRETE SLUMP: 3" +/- 1"

THE USE OF ADDITIVES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER OR NOTED IN THE PROJECT SPECIFICATIONS. THE USE OF ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED

FOR WORKABILITY.

ALL REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED AS REQUIRED WITH CLASS B TENSION SPLICES PER ACI 315. PROVIDE CLASS B TENSION SPLICES AT WALL CORNERS AND INTERSECTIONS WITH STANDARD 90 DEGREE BENT CORNER BARS, INCLUDING CORNERS OF WALL FOOTINGS AND BOND BEAMS. LAP WELDED WIRE MESH ONE FULL MESH AT SIDE AND END LAPS. PROVIDE CORNER LAP BARS AT ALL LONGITUDINAL FOOTING REINFORCING AS WELL AS AT ALL HORIZONTAL WALL REINFORCING.

ALL TENSION SPLICES IN THE REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL HAVE A MINIMUM LAP DISTANCE AS SHOWN IN THE TENSION LAP SPLICE CHART IN THE GENERAL NOTES. PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS (UNLESS NOTED OTHERWISE):

FOOTINGS: 3" INTERIOR SLABS: 3/4"

ALL CONCRETE WORK, REINFORCING PLACEMENT FORMWORK AND SHORING SHALL BE INSPECTED UNDER THE SUPERVISION OF THE SPECIAL INSPECTOR. CONCRETE QUALITY CONTROL, INSPECTION AND TESTING SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS, ACI 301 AND THE LOCAL BUILDING CODE REQUIREMENTS.

3. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONSTRUCTION DOCUMENTS FOR USE AS SHOP

IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, PROVIDE THE REVIEWED THE SHOP DRAWINGS OF THE

DESIGN BY EITHER TRIAL BATCH OR FIELD EXPERIENCE METHODS. TED MIX MUST IDENTIFY ITS INTENDED USE) INFORCING VFORCING

NCLUDING SECTION PROPERTIES OF DECK) US METALS FRAMING SUPPORTS

A. SHORING AND BRACING FOR BUILDING ELEMENTS WITH CALCULATIONS B. BRACING OF MASONRY WALLS OVER 8'-0" PER OSHA (DRAWINGS AND CALCULATIONS) CALCULATIONS TO INCLUDE VERIFICATION OF CONCRETE SLAB ON GRADE TO SUPPORT SHORING LOADS, WHERE APPLICABLE. C. STEEL LADDERS WITH CALCULATIONS

SPECIAL INSPECTIONS ARE REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. THE TERM SPECIAL INSPECTOR REFERS TO THE SPECIAL INSPECTING ENGINEER OF RECORD HIRED BY THE OWNER IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE. INSPECTIONS OF FOUNDATION SUBGRADES MUST BE CONDUCTED BY A LICENSED GEOTECHNICAL ENGINEER. REFERRED TO HEREIN AS THE GEOTECHNICAL INSPECTOR. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR, BUT NOT LIMITED TO. THE FOLLOWING STRUCTURAL ITEMS:

<u>ASSUMED LATERAL WALL LOADS (EQUIVALENT FLUID PRESSURE)</u>

2,000 POUNDS PER SQUARE FOOT FOR COLUMN AND WALL FOOTINGS.

SUBSURFACE INVESTIGATION AND REPORT BY JOHN D. HYNES & ASSOCIATES, INC JASON A. LINDSEY. PE AND JOHN D. HYNES. PE TELEPHONE NO: 410-546-6462 REPORT NO: JDH-10/19/303 GEOTECHNICAL REPORT DATED: SEPTEMBER 30, 2019 &

LETTER DATED NOVEMBER 20, 2019. ALL FOUNDATION WORK AND SOIL COMPACTION SHALL BE IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT

THE FINAL SOIL BEARING CAPACITY AND FOUNDATION SUBGRADES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL INSPECTOR PRIOR TO THE CONCRETE FOOTING INSTALLATION. THE CONTRACTOR SHOULD TAKE NOTE OF ANY WATER CONDITIONS AT THE SITE. FOUNDATION SUBGRADES SHALL REMAIN DRY DURING

FIELD VERIFY ALL RELEVANT EXISTING DIMENSIONS, ELEVATIONS, AND MEMBER SIZES.

SHORING OF STRUCTURAL ELEMENTS SHALL BE PROVIDED AS REQUIRED TO PROTECT EXISTING CONSTRUCTION. THE SHORING DESIGN SHALL BE AS REQUIRED BY THE CONSTRUCTION. SUBMIT SHOP DRAWINGS SHOWING ACTUAL SEQUENCE AND DETAILS OF THE SHORING PROCEDURE, AS WELL AS CALCULATIONS INDICATING THAT THE EXISTING BUILDING LOADS AND CONSTRUCTION LOADS HAVE BEEN ACCOMMODATED IN THE SHORING DESIGN. SEE THE "CONTRACTOR RESPONSIBILITIES" AND "SUBMITTAL" NOTES ABOVE FOR ADDITIONAL REQUIREMENTS.

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED.

8" AFTER ADDITION OF HRWR AT THE SITE

PROVIDE A HIGH RANGE WATER REDUCER (HRWR OR SUPERPLASTICIZER) FOR PUMPED CONCRETE AND AS REQUIRED

CONSTRUCTION PRACTICES:

WET STICKING OF DOWELS INTO THE FOOTING WILL NOT BE ACCEPTED. DOWELS SHOULD BE PROPERLY PLACED AND TIED TO LONGITUDINAL FOOTING REINFORCING IN ACCORDANCE WITH CRSI.

THE SPECIAL INSPECTOR SHALL PERFORM A MINIMUM OF ONE CONCRETE TEST FOR EACH 50 CUBIC YARDS OF CONCRETE POURED AT THE PROJECT WITH AT LEAST ONE TEST FOR EACH DAY THAT CONCRETE IS POURED. EACH CONCRETE TEST SHALL INCLUDE A SLUMP TEST AND FIVE LABORATORY CURED TEST CYLINDERS FOR COMPRESSIVE STRENGTH TESTS. TEST TWO CYLINDERS AT 7 DAYS AFTER THE CONCRETE POUR AND TWO AT 28 DAYS WITH ONE RESERVE CYLINDER. THE SPECIAL INSPECTOR SHALL SUBMIT WRITTEN TEST REPORTS TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ALL TESTS THAT DO NOT MEET THE PROJECT SPECIFICATIONS WITHIN 24 HOURS.

SLAB ON GRADE

PROVIDE A MINIMUM THICKNESS REINFORCED CONCRETE SLAB AS NOTED ON THE PLANS ON A CONTINUOUS VAPOR RETARDER/BARRIER OVER DRAINAGE COURSE. THE WELDED WIRE REINFORCING SHALL BE PLACED AT 2" BELOW THE TOP SURFACE OF THE SLAB. THE DRAINAGE COURSE SHALL BE PER THE EARTHWORK SPECS OR ASTM C33, SIZE 57. ALL CONDUITS/PIPES MUST BE PLACED BELOW THE CONCRETE. CONDUIT SHALL NOT TO BE RUN IN THE CONCRETE SLAB.

STRUCTURAL MASONRY

ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH FOLLOWING STANDARDS: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - ACI 530/ASCE 5 SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530.1/ASCE 6 SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY PUBLISHED BY NATIONAL CONCRETE MASONRY ASSOCIATION.

THE MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY (F'm) SHALL BE 1500 PSI PER ACI 530.

THE MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE 1900 PSI PER ACI 530. HOLLOW AND SOLID LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND ASTM C145.

MORTAR SHALL CONFORM TO THE REQUIREMENTS OF THE ASTM TENTATIVE SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY, ASTM C270, TYPE S MORTAR.

HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS. FIELD TESTED MORTAR IS REQUIRED TO ACHIEVE SPECIFIED DESIGN STRENGTHS.

MASONRY GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI, COMPLYING WITH ASTM C476. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL VERTICAL MASONRY REINFORCING SHALL BE INSTALLED IN FULLY GROUTED CELLS AS SHOWN ON THE DRAWINGS. PROVIDE BAR SPLICES PER THE CMU BAR SPLICE CHART IN THE GENERAL NOTES.

FOR HORIZONTAL JOINT REINFORCING TYPE, SIZE AND SPACING SEE TYPICAL MASONRY DETAIL SHEETS. CONTROL JOINTS SHALL BE SPACED WITHIN 4'-0" MAXIMUM OF THE VENEER JOINTS SHOWN ON THE ARCHITECTURAL DRAWINGS AND AT A MAXIMUM SPACING OF 25' - 0" ON CENTER. JOINTS MUST BE 24" FROM WALL OPENINGS TYPICAL.

DISCONTINUE JOINT REINFORCING AT CONTROL JOINTS.

PROVIDE TIES FOR MASONRY VENEER WALLS AS DETAILED ON ARCHITECTURAL DRAWINGS. SHEET METAL TIES FOR VENEER ARE NOT ACCEPTABLE. WIRE TIES MUST BE USED.

ALL MASONRY WALLS SHALL BE TEMPORARILY BRACED IN AN APPROVED MANNER DURING CONSTRUCTION UNTIL MORTAR HAS ATTAINED THE DESIGN STRENGTH. AND UNTIL ROOF MEMBERS HAVE BEEN PLACED AND ANCHORED THERETO. SUBMIT BRACING DRAWINGS IN ACCORDANCE WITH OSHA REQUIREMENTS; DRAWINGS AND CALCULATIONS ARE TO BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH SUBMITTALS NOTES. CONSTRUCTION PRACTICES:

- 1. WET STICKING OF VERTICAL REINFORCING INTO GROUTED CELLS FOR LAPS IS UNACCEPTABLE. LAP AND TIE BARS PER ACI.
- 2. ALL BELOW GRADE WALLS ARE TO BE GROUTED SOLID.
- 3. GROUT TOP COURSE SOLID AT ALL TRANSITIONS IN WALL CONSTRUCTION FROM LARGER SIZE BLOCK TO SMALLER SIZE BLOCK. PROVIDE GROUT SCREEN AS REQUIRED.

4. USE VIBRATORS TO CONSOLIDATE GROUT IN MASONRY WALLS. RODDING WILL NOT BE PERMITTED.

MASONRY WALL LINTELS PROVIDE LINTELS FOR ALL OPENINGS IN LOAD-BEARING MASONRY WALLS AS SHOWN ON THE STRUCTURAL DRAWINGS ON THE TYPICAL MASONRY DETAIL SHEETS.

ALL OPENINGS EXCEEDING 1'-0" IN WIDTH IN NON-LOAD-BEARING MASONRY PARTITIONS MUST HAVE A LINTEL. NON-BEARING MASONRY PARTITIONS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR OPENING SIZE, OPENING LOCATION, AND LINTEL TYPE. REFER TO THE CMU LINTEL SCHEDULE IN THE DETAILS FOR LINTEL SIZE AND REINFORCING.

MECHANICAL OPENINGS HAVE NOT BEEN SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE LINTELS FOR ALL MECHANICAL OPENINGS PER THE LINTEL SCHEDULE. DUCT OPENINGS THROUGH BEARING WALLS ARE TO BE LOCATED BETWEEN THE BEAMS/JOISTS, PROVIDING 1'-0" MINIMUM CLEAR FROM EDGE OF MASONRY OPENING TO STEEL BEARING. DUCTS ARE NOT TO BE LOCATED DIRECTLY UNDER STEEL BEARING. NOTES:

1. PROVIDE HORIZONTAL JOINT REINFORCING AT 8" O.C. FOR TWO COURSES ABOVE ALL LINTELS. EXTEND THE JOINT REINFORCING 12" BEYOND THE LINTELS AT EACH END OF THE LINTELS.

2. PROVIDE BEARING AT EACH END OF MASONRY LINTELS AS SHOWN IN THE DETAIL.

STRUCTURAL STEEL

ALL STEEL SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

ALL STEEL W SHAPES SHALL BE ASTM A992, GRADE 50. ALL ANGLES, CHANNELS, BENT PLATES, FLAT STOCK AND OTHER MISC. METAL SHAPES SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL BE WELDED OR BOLTED.

STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE C. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36

SHOP AND FIELD FASTENERS SHALL BE ASTM A325 HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS, UNLESS NOTED OTHERWISE.

HOLES SHALL NOT BE CUT THROUGH BEAMS AND COLUMNS UNLESS INDICATED OR APPROVED BY THE STRUCTURAL ENGINEER.

WELDING SHALL BE DONE ONLY BY AWS CERTIFIED WELDERS. WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE" FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. USE E70XX ELECTRODES.

SEE THE "CONTRACTOR RESPONSIBILITES" AND "SUBMITTAL" NOTES FOR ADDITIONAL STEEL SHOP DRAWING REQUIREMENTS.

STEEL JOISTS

OPEN WEB STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. ALL JOISTS SHALL BE ANCHORED TO STEEL BEAMS AND BEARING PLATES WITH A MINIMUM 1/8" FILLET WELD 2" LONG ON EACH SIDE OF THE JOIST.

CHARTS. HORIZONTAL OR DIAGONAL BRIDGING SHALL BE USED IN COMPLIANCE WITH REQUIREMENTS OF THE STEEL JOIST INSTITUTE. BRIDGING ANGLE SIZES SHALL BE AS RECOMMENDED BY SJI, FOR THE SPACINGS INDICATED. THE CONTRACTOR SHALL COORDINATE BRIDGING LOCATIONS WITH MECHANICAL DUCTWORK AND MECHANICAL UNIT LOCATIONS. ANCHOR BRIDGING TO MASONRY WALLS AS SHOWN ON THE DRAWINGS AND PER THE STEEL JOIST MANUFACTURER. COORDINATE BRIDGING ATTACHMENT WITH INSTALLATION OF DECK SUPPORT ANGLES.

STRUCTURAL DRAWINGS ARE NOT INTENDED TO STAND ALONE, BUT WORK IN CONJUCTION WITH THE ARCHITECTURAL DRAWINGS. JOIST MANUFACTURER TO COORDINATE WITH BOTH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. FOR DIMENSIONS, DETAILING, EDGE OF JOIST LOCATIONS, TOP CHORD EXTENSIONS, ETC. JOIST LOCATIONS ARE TO BE COORDINATED BY THE G.C. WITH DUCTWORK, CURTAIN WALL LOCATIONS, EXHAUST FANS AND OTHER ROOF PENETRATIONS, ROOF TOP UNITS, ETC. ADJUST JOIST LOCATIONS AS REQUIRED WITHIN THE MAXIMUM SPACING LIMITS PROVIDED. JOISTS ARE NOT TO BEAR ACROSS WALL CONTROL JOINTS. ADJUST JOIST LOCATIONS AS REQUIRED SO AS NOT TO STRADDLE THE JOINT WITH THE JOIST BEARING PLATE. THE CENTERLINE OF JOIST IS TO BE A MINIMUM OF 6" FROM THE CENTERLINE OF THE CONTROL JOINT. PROVIDE ADDITIONAL JOISTS AS REQUIRED TO COORDINATE WITH OTHER TRADES WHILE MAINTAINING MAXIMUM SPACINGS NOTED ON PLANS.

INDIVIDUAL PIPE HANGERS FOR PIPING SUPPORT ARE PERMITTED ON NEW OR EXISTING JOISTS AS FOLLOWS: 1. NO MORE THAN 450 POUNDS TO BE SUPPORTED ON ANY INDIVIDUAL JOIST. MULTIPLE HANGERS MAY BE LOCATED ON ONE JOIST AS LONG AS THE COMBINED SUPPORTED WEIGHT OF THOSE HANGERS DOES NOT EXCEED 450 POUNDS. 2. ADDITIONAL JOIST REINFORCING IS TO BE USED IF HANGER LOCATION IS FURTHER THAN 3" FROM THE JOIST PANEL POINT AND POINT LOAD EXCEEDS 100 POUNDS

ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD AS CALCULATED FROM THE COMPONENTS AND CLADDING

STEEL ROOF DECK

THE ROOF DECK SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND CODE OF RECOMMENDED STANDARD PRACTICE OF THE STEEL DECK INSTITUTE. SUBMIT SHOP DRAWINGS INDICATING THE ROOF DECK SECTION PROPERTIES MEET OR EXCEED THE FOLLOWING MINIMUM SPECIFICATIONS:

1-1/2" DEEP, 22 GAGE, Sx = 0.183 IN**3/FT.

Ix = 0.162 IN**4/FT., YIELD STRENGTH = 33,000 PSI, TYPE B.

THE STEEL ROOF DECK SHALL BE GALVANIZED. REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS OF ALL ROOF OPENINGS.

CONNECT THE STEEL ROOF DECK TO THE SUPPORTS WITH MINIMUM 5/8" DIAMETER PUDDLE WELDS AT 12" O.C. AT THE INTERIOR AND 6" O.C. AT THE PERIMETER. SIDELAPS SHALL BE FASTENED WITH #10 SELF DRILLING SCREWS AT MID SPAN BETWEEN SUPPORTS.

STRUCTURAL DRAWINGS ARE NOT INTENDED TO STAND ALONE, BUT WORK IN CONJUCTION WITH THE ARCHITECTURAL DRAWINGS. DECK MANUFACTURER TO COORDINATE WITH BOTH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS, DETAILING, EDGE OF DECK LOCATIONS, ETC.

NO PIPING, CONDUIT, LIGHT FIXTURES, OR MECHANICAL DUCTWORK IS TO BE SUPPORTED FROM THE METAL ROOF DECK.



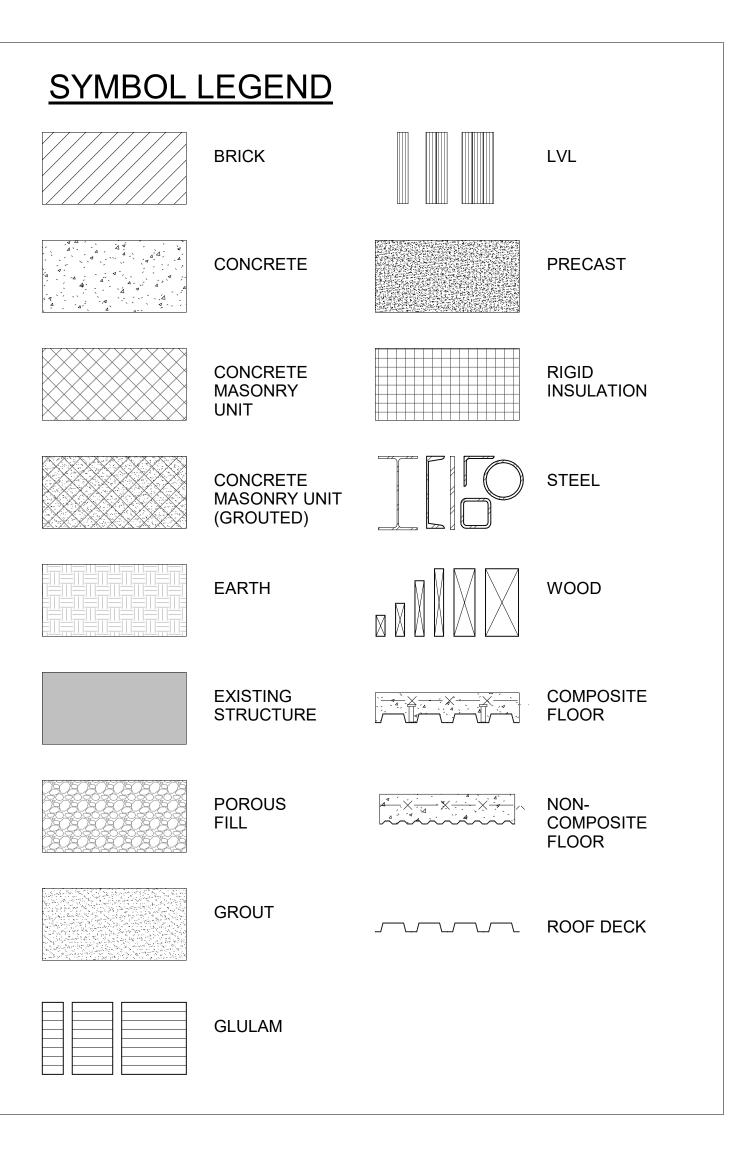
k .	AND		
0	AT	IF	INSIDE FACE
Ø	DEGREE		
2 =	DIAMETER EQUAL	INT.	INTERIOR
	NUMBER/POUNDS	J	
:	PLUS OR MINUS	J.B.E.	JOIST BEARING ELEVATION
		JST	JOIST
A		JT	JOINT
AB	ANCHOR BOLT		
ARCH.		K	
ACI AISC	AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF	k, K	KIP
4130	STEEL CONSTRUCTION		
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	L	
AISI	AMERICAN IRON AND STEEL INSTITUTE	LB	POUND
ASTM	AMERICAN SOCIETY FOR		
	TESTING AND MATERIALS	LLV LT	LONG LEG VERTICAL LIGHT
AWS	AMERICAN WELDING SOCIETY		EIGITI
3		Μ	
J BCX	BOTTOM CHORD EXTENSION	MAX	MAXIMUM
BEW	BOTTOM CHORD EXTENSION BOTTOM EACH WAY	MC	MOMENT CONNECTION
B.F.	BRACED FRAME	MECH	MECHANICAL
3M	BEAM	MFR	MANUFACTURER
BOTT	BOTTOM	MIN MO	MINIMUM MASONRY OPENING
3.0.	BOTTOM OF	MU	MASONRY OPENING METAL
BPL, BP	BEARING PLATE / BASE PLATE		
BRG	BEARING	N	
BTWN	BETWEEN	(N)	NEW
C		NÔ.	NUMBER
CJ	CONTROL JOINT / CONSTRUCTION JOINT	NCMA	NATIONAL CONCRETE AND
CL	CENTERLINE		MASONRY ASSOCIATION
CFS	COLD FORMED STEEL	0	•·· • - ··
CIP	CAST IN PLACE	0.C.	
CLR	CLEAR	OF	
	COLUMN	OH OPP	OPPOSITE HAND OPPOSITE
		OPP OSHA	OCCUPATIONAL SAFETY
CONN CONSTR	CONNECTION CONSTRUCTION		HEALTH ADMINISTRATION
CONT	CONTINUOUS	П	
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	P	
CVR	COVER	PAF PL	POWDER ACTUATED FASTENER PLATE
			PLUMBING
D		PLWD	PLYWOOD
DEFL	DEFLECTION	P/C	PRECAST
AIA	DIAMETER	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
DWG, DWGs	DRAWING / DRAWINGS		
Ξ		R	REINFORCED / REINFORCING
E EA	EACH	REQ'D	REINFORCED / REINFORCING REQUIRED
EE	EACH END	RO	ROUGH OPENING
-E F	EACH FACE	RTU	ROOF TOP UNIT
EJ	EXPANSION JOINT	S	
ELEC	ELECTRICAL	SCHED, SCH'D	SCHEDULE
ELEV, EL		SIM	SIMILAR
		SJI	STEEL JOIST INSTITUTE
ENGR EOD	ENGINEER EDGE OF DECK	S.O.G., SOG	SLAB ON GRADE
EOD	EDGE OF DECK EDGE OF JOIST	STD	STANDARD
EOS	EDGE OF SLAB	STL	STEEL
EQ	EQUAL	SW	SHEAR WALL
TC	ETCETERA	Т	
EW	EACH WAY		TOP CHORD EXTENSION
EX, EXIST, (E)		T.O.	TOP OF
EXP	EXPANSION	T.O.STL	TOP OF STEEL
EXT	EXTERIOR	T.O.S.	TOP OF SLAB ELEVATION
=		T.O.W.	TOP OF WALL
AB	FABRICATOR	TYP	TYPICAL
DN, FOUND	FOUNDATION	U	
FE	FINISHED FLOOR ELEVATION	U.N.O.	UNLESS NOTED OTHERWISE
IN	FINISHED		
LR	FLOOR	V	
OW	FACE OF WALL	VERT	VERTICAL
T	FEET / FOOT	V.I.F.	VERIFY IN FIELD
TG	FOOTING		
_		W	
3		W/	WITH
GA	GAGE	W/IN	WITHIN
	GALVANIZED	W/OUT	WITHOUT
SALV		WMC	WIND MOMENT CONNECTION
			WEIGHT
		WT	
GALV H HORIZ	HORIZONTAL	WWR	WELDED WIRE REINFORCING
	HORIZONTAL HOLLOW STRUCTURAL SECTION		

WIND COMPONENT & CLADDING LOAD SCHEDULE

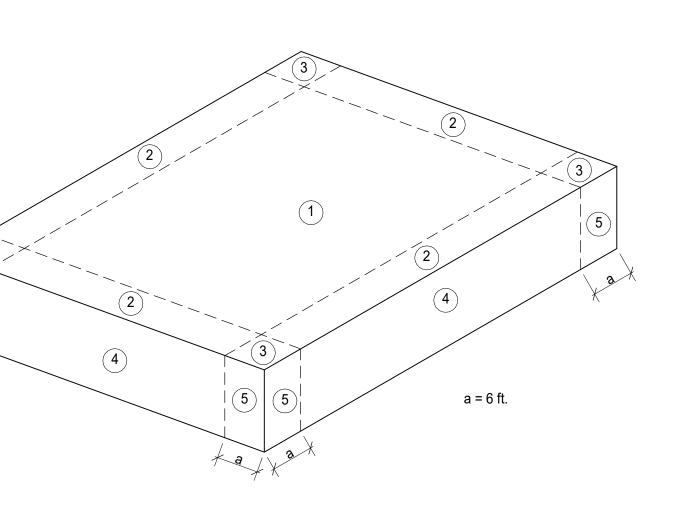
	POSITIVE F	PRESSURE		NEG	ATIVE PRESS	URE	
AREA (SQ. FT.)	ZONE 4 (PSF)	ZONE 5 (PSF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
10	+23.7	+23.7	-25.9	-43.5	-65.4	-25.7	-31.6
100	+17.8	+17.8	-23.7	-28.1	-28.1	-19.8	-19.8

<u>NOTES:</u> 1. POSITIVE AND NEGATIVE SIGNS ON VALUES IN SCHEDULE INDICATE PRESSURES ACTING

TOWARD AND AWAY FROM THE SURFACE, RESPECTIVELY. ZONES 1, 2, AND 3 ARE FOR ROOFS. ZONES 4 AND 5 ARE FOR WALLS. SEE THE WIND 2. PRESSURE ZONE DIAGRAM IDENTIFYING THE EXTENTS OF THE WIND PRESSURE ZONES.







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CONCRETE MIX DESIGN TABLE

MEMBER	LOCATION	f'c	W/C	EXP	OSURE	CATEG	ORY	ENTRAINED A	AIR CONTENT
WEWDER	LOCATION		VV/C	F	S	Р	С	3/4" AGGREGATE	1" AGGREGATE
FOOTINGS	INTERIOR	3000 PSI	0.55	F0	S0	P0	C0	N/A	N/A
FOOTINGS	EXTERIOR	4500 PSI	0.45	F2	S0	P0	C1	6 +/-1.5%	6 +/- 1.5%
SLABS-ON-GRADE AND INFILL SLABS	INTERIOR	4000 PSI	0.48	F0	S0	P0	C0	N/A	N/A

NOTES: 1. PROVIDE CONCRETE MIXES IN ACCORDANCE WITH ACI 301 FOR THE EXPOSURE CATEGORIES IDENTIFIED IN THE ABOVE TABLE. 1. PROVIDE CONCRETE MIXES IN ACCORDANCE WITH ACI 301 FOR THE EXPOSURE CATEGORIES IDENTIFIED IN THE ABOVE TABLE. 2. "EXTERIOR" MEMBERS ARE THOSE FULLY OR PARTIALLY OUTSIDE A CONDITIONED BUILDING ENVELOPE AND FULLY OR PARTIALLY

ABOVE THE FROST DEPTH. ALL OTHER MEMBERS SHALL BE CONSIDERED "INTERIOR".

3. MAXIMUM WATER-CEMENT (W/C) RATIOS INDICATED IN THE TABLE SHALL INCLUDE WATER FROM ADMIXTURES IN W/C CALCULATIONS. 4. DO NOT AIR-ENTRAIN NORMAL WEIGHT CONCRETE DESIGNATED TO RECEIVE STEEL TROWEL FINISH.

CONCRETE TENSION LAP SPLICE LENGTH SCHEDULE

	f'c=3,0	00 PSI			f'c=3,50	00 PSI			f'c=4,00	00 PSI			f'c=4,5(00 PSI	
OP I	BARS	OTHEF	RBARS	top e	BARS	OTHEF	R BARS	TOP E	BARS	OTHEF	RBARS	TOP E	BARS	OTHEF	R BARS
6E 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
-5"	1'-11"	1'-4"	1'-6"	1'-4"	1'-10"	1'-4"	1'-5"	1'-4"	1'-8"	1'-4"	1'-4"	1'-4"	1'-7"	1'-4"	1'-4"
11"	3'-2"	1'-6"	2'-5"	1'-9"	2'-11"	1'-4"	2'-3"	1'-8"	2'-9"	1'-4"	2'-1"	1'-7"	2'-7"	1'-4"	2'-0"
-4"	4'-6"	1'-10"	3'-6'	2'-2"	4'-2"	1'-8"	3'-3"	2'-1"	3'-11"	1'-7"	3'-0"	1'-11"	3'-8"	1'-6"	2'-10"
10"	6'-0"	2'-2"	4'-7"	2'-7"	5'-7"	2'-0"	4'-3"	2'-5"	5'-2"	1'-11"	4'-0"	2'-4"	4'-11"	1'-9"	3'-9"
-7"	9'-6"	3'-7"	7'-4"	4'-3"	8'-9"	3'-4"	6'-9"	4'-0"	8'-3"	3'-1"	6'-4"	3'-9"	7'-9"	2'-11"	6'-0"
10"	11'-7"	4'-6"	8'-11"	5'-5"	10'-9"	4'-2"	8'-3"	5'-1"	10'-1"	3'-11"	7'-9"	4'-9"	9'-6"	3'-8"	7'-4"
-2"	13'-1"	5'-6"	10'-1"	6'-8"	12'-2"	5'-1"	9'-4"	6'-3"	11'-4"	4'-10"	8'-9"	5'-10"	10'-8"	4'-6"	8'-3"
-9"	14'-9"	6'-9"	11'-4"	8'-2"	13'-8"	6'-3"	10'-6"	7'-7"	12'-9"	5'-10"	9'-10"	7'-2"	12'-0"	5'-6"	9'-3"
'-6"	16'-4"	8'-1"	12'-7"	9'-8"	15'-2"	7'-6"	11'-8"	9'-1"	14'-2"	7'-0"	10'-9"	8'-7"	13'-4"	6'-7"	10'-3"

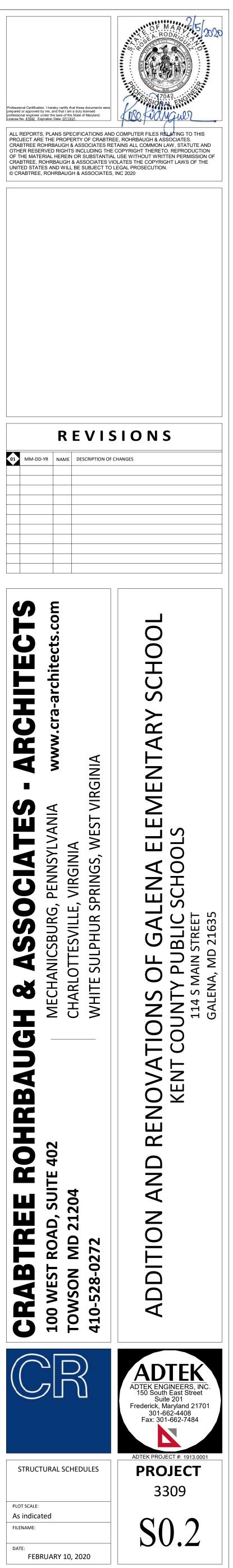
NOTES: 1. LAP SPLICE INFORMATION APPLIES TO BEAM, COLUMN, SLAB AND WALL REINFORCING BARS. 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS. 3. CASE 1&2, DEPENDS ON THE CONCRETE COVER, AND CLEAR SPACING OF BARS AS DEFINED BELOW: CASE 1 : COVER AT LEAST 1 1/2" AND CLEAR SPACING AT LEAST 3".

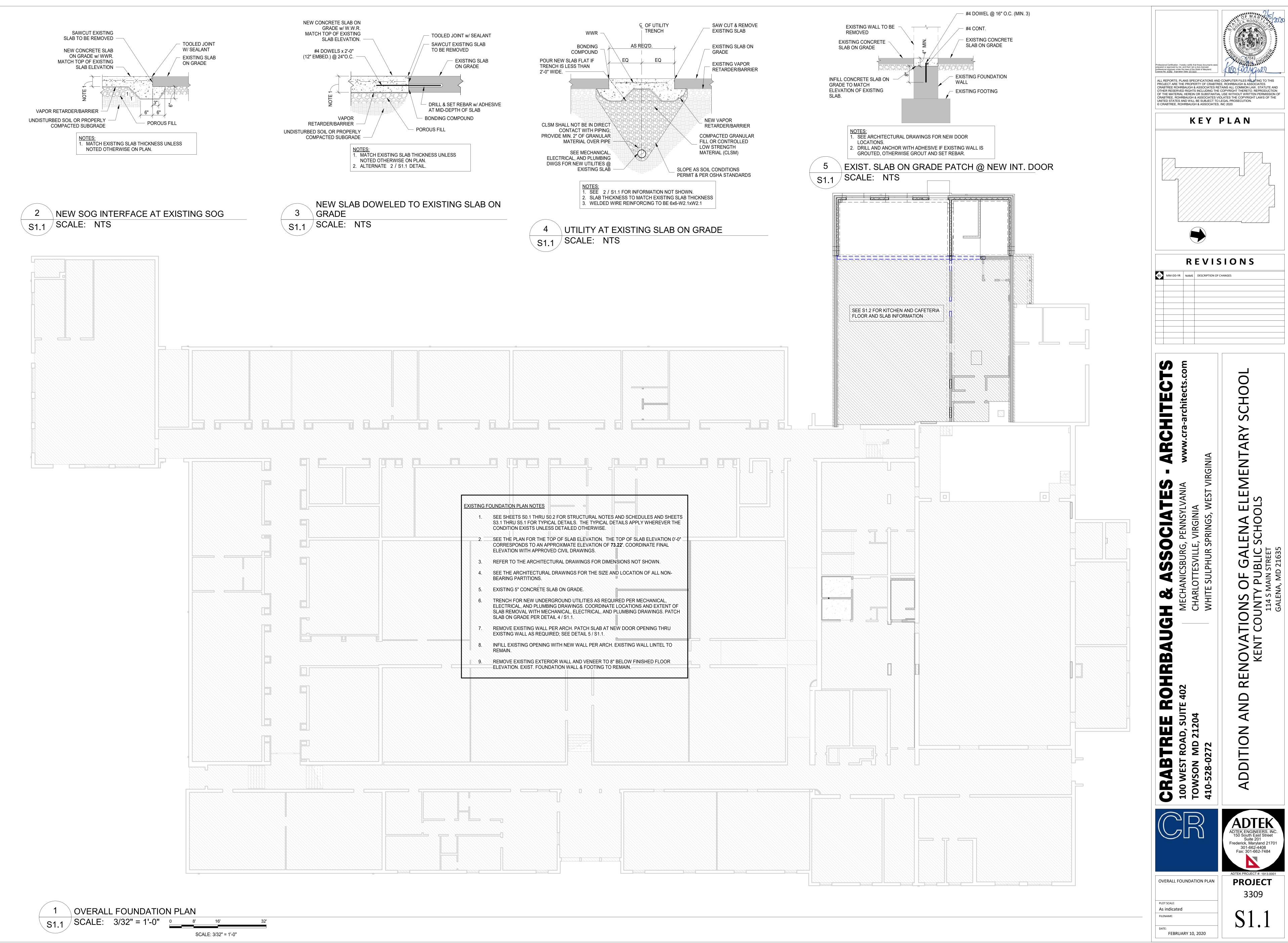
CASE 2 : ALL OTHER CASES. 4. FOR LIGHTWEIGHT AGGREGATE, MULTIPLY ABOVE VALUES BY 1.3.

5. THIS SCHEDULE APPLIES TO 60ksi REINFORCING BARS. FOR 75ksi REINFORCING BARS, MULTIPLY ABOVE VALUES BY 1.25. 7. FOR BAR DEVELOPMENT LENGTHS, DIVIDE ABOVE VALUE BY 1.3.

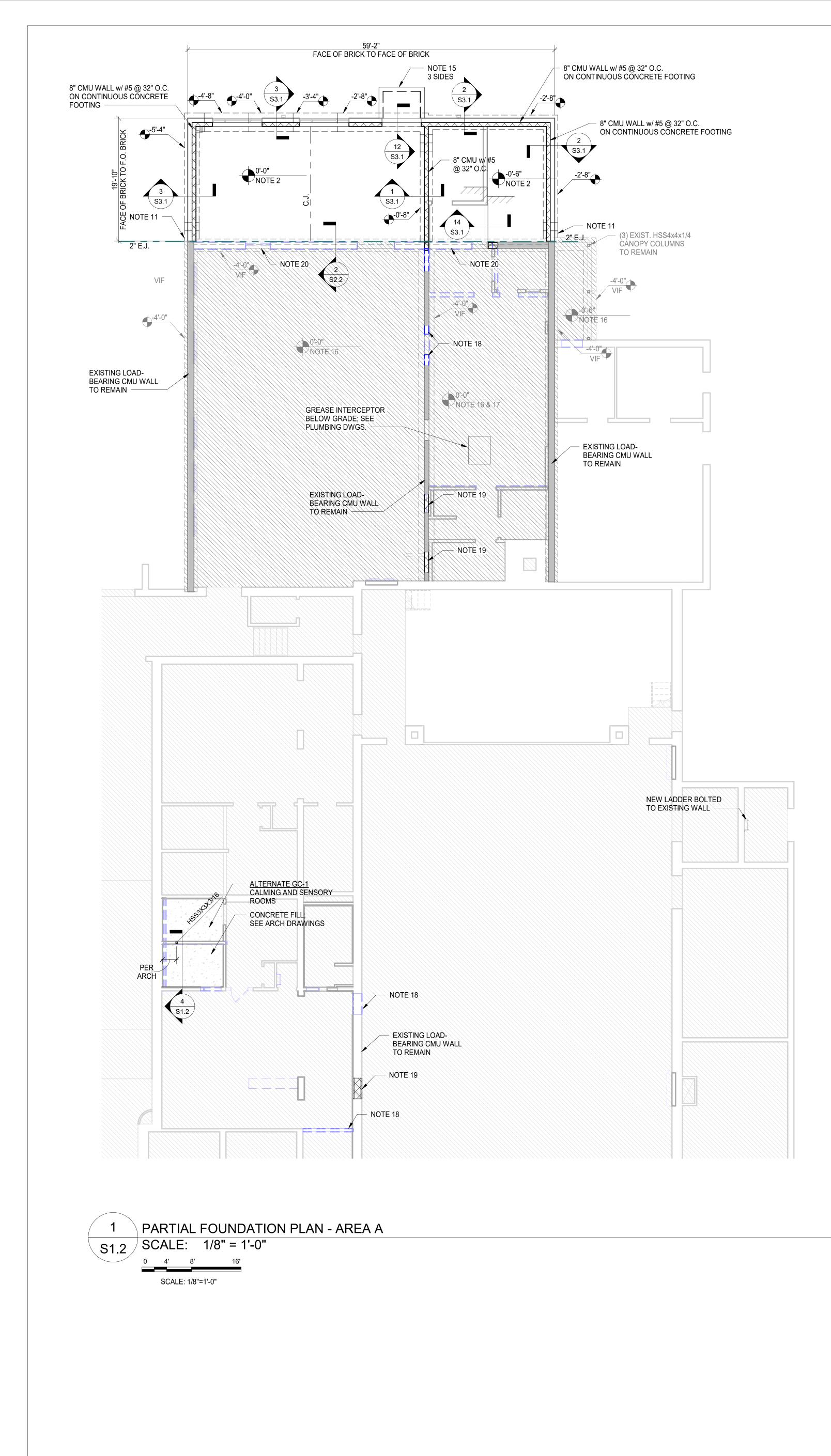
CML	J WALL LA	P SPLICE	SCHEDUL	E					
LONGITUDINAL	MINI	MUM LAP SPLIC	CE LENGTH, in. I	FOR:					
BAR SIZE	6-in. CMU	8-in. CMU	10-in. CMU	12-in. CMU					
NO. 3	12	12	12	12					
NO. 4	20	15	12	12					
NO. 5	32 23 18 15								
NO. 6	-	43	34	28					
NO. 7	-	60	46	38					
NO. 8	-	72	71	57					
NO. 9	-	-	82	74					

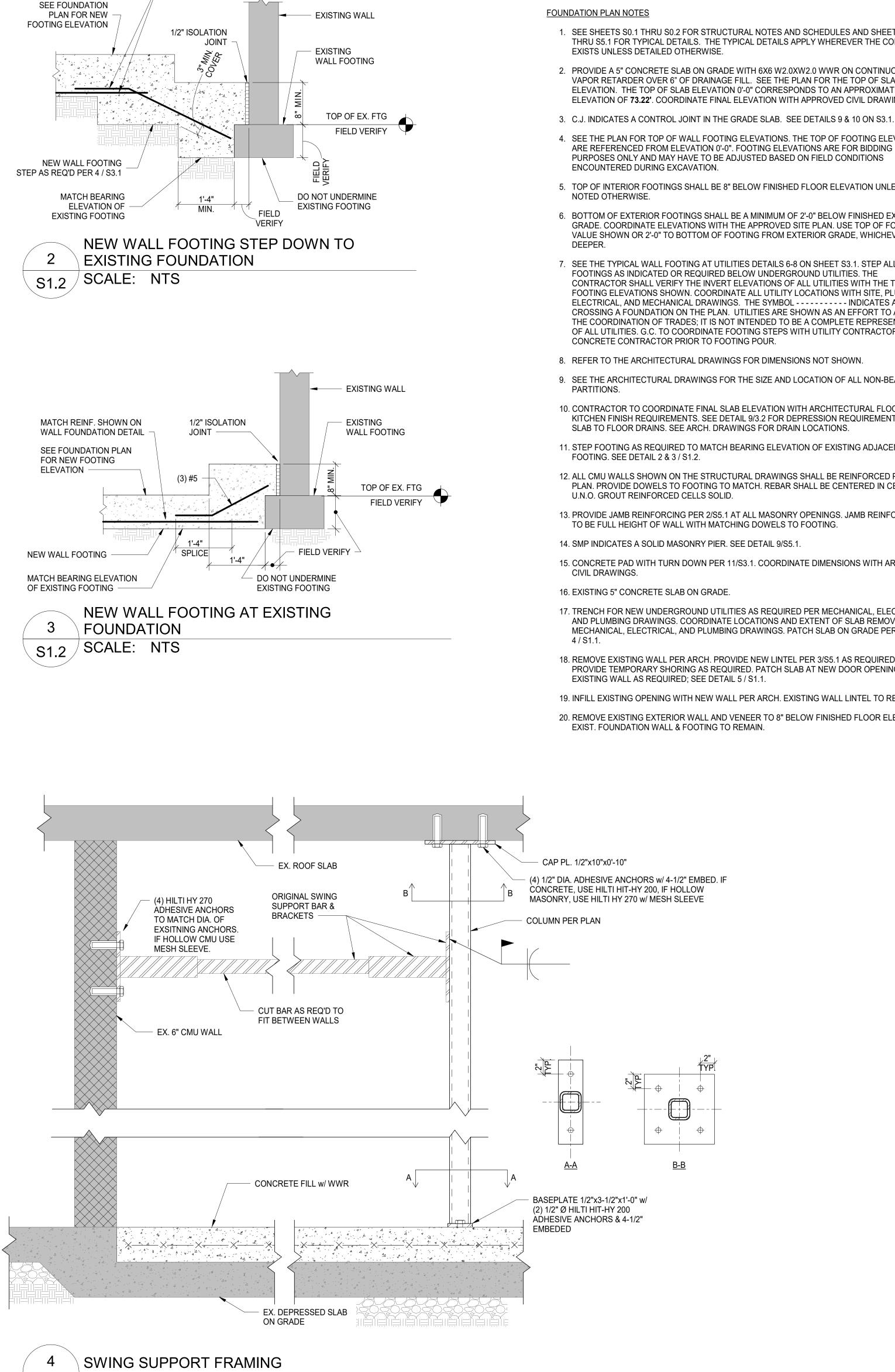
NOTES: 1. VALUES ARE BASED ON GRADE 60 REINFORCEMENT.





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MATCH REINF. SHOWN ON

WALL FOUNDATION DETAILS

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

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

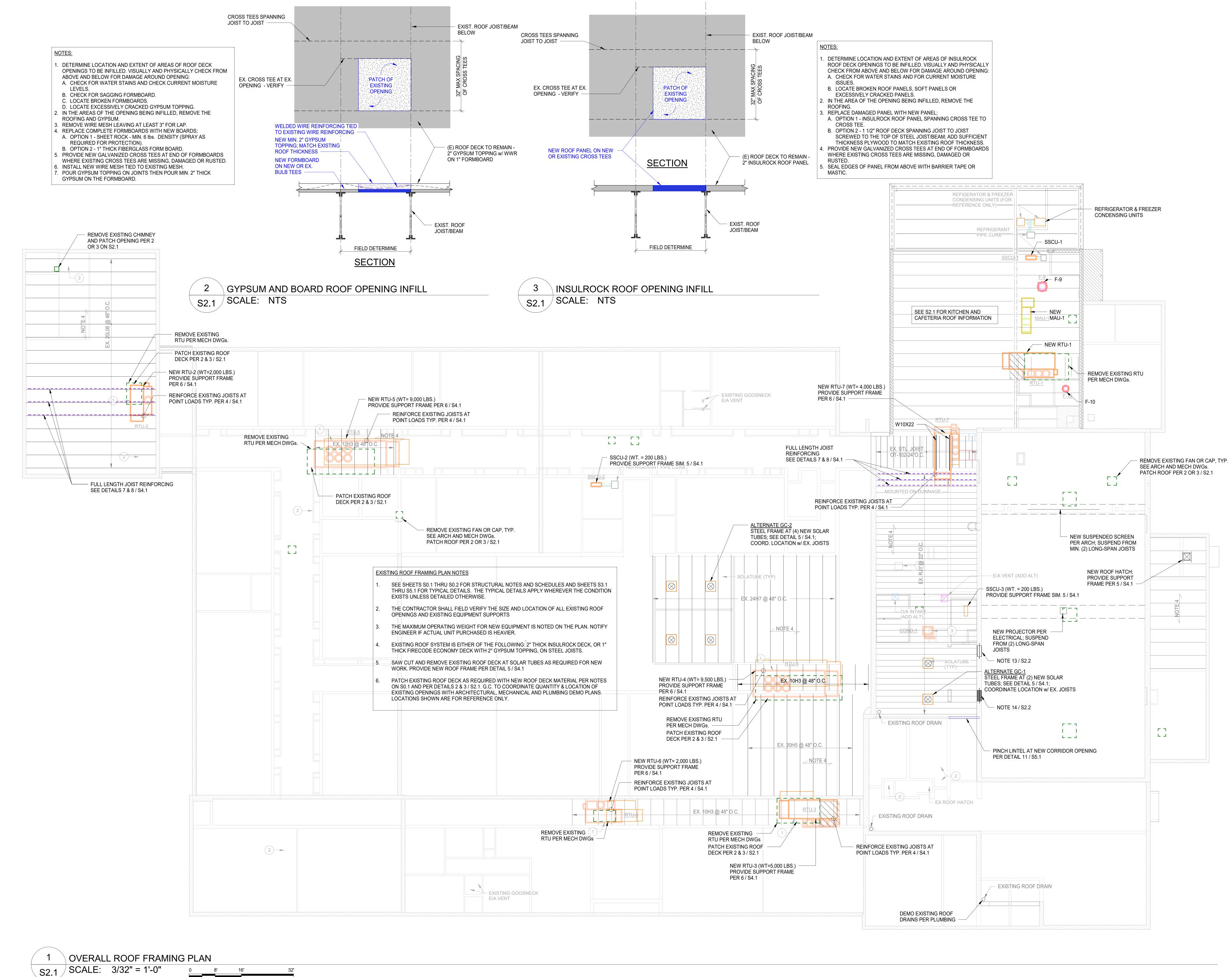
6" 1'

S1.2

- 1. SEE SHEETS S0.1 THRU S0.2 FOR STRUCTURAL NOTES AND SCHEDULES AND SHEETS S3.1 THRU S5.1 FOR TYPICAL DETAILS. THE TYPICAL DETAILS APPLY WHEREVER THE CONDITION
- 2. PROVIDE A 5" CONCRETE SLAB ON GRADE WITH 6X6 W2.0XW2.0 WWR ON CONTINUOUS VAPOR RETARDER OVER 6" OF DRAINAGE FILL. SEE THE PLAN FOR THE TOP OF SLAB ELEVATION. THE TOP OF SLAB ELEVATION 0'-0" CORRESPONDS TO AN APPROXIMATE ELEVATION OF 73.22'. COORDINATE FINAL ELEVATION WITH APPROVED CIVIL DRAWINGS.
- 4. SEE THE PLAN FOR TOP OF WALL FOOTING ELEVATIONS. THE TOP OF FOOTING ELEVATIONS ARE REFERENCED FROM ELEVATION 0'-0". FOOTING ELEVATIONS ARE FOR BIDDING PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED BASED ON FIELD CONDITIONS
- 5. TOP OF INTERIOR FOOTINGS SHALL BE 8" BELOW FINISHED FLOOR ELEVATION UNLESS
- 6. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'-0" BELOW FINISHED EXTERIOR GRADE. COORDINATE ELEVATIONS WITH THE APPROVED SITE PLAN. USE TOP OF FOOTING VALUE SHOWN OR 2'-0" TO BOTTOM OF FOOTING FROM EXTERIOR GRADE, WHICHEVER IS
- 7. SEE THE TYPICAL WALL FOOTING AT UTILITIES DETAILS 6-8 ON SHEET S3.1. STEP ALL WALL FOOTINGS AS INDICATED OR REQUIRED BELOW UNDERGROUND UTILITIES. THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS OF ALL UTILITIES WITH THE TOP OF FOOTING ELEVATIONS SHOWN. COORDINATE ALL UTILITY LOCATIONS WITH SITE, PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS. THE SYMBOL ----- INDICATES A UTILITY CROSSING A FOUNDATION ON THE PLAN. UTILITIES ARE SHOWN AS AN EFFORT TO AID IN THE COORDINATION OF TRADES; IT IS NOT INTENDED TO BE A COMPLETE REPRESENTATION OF ALL UTILITIES. G.C. TO COORDINATE FOOTING STEPS WITH UTILITY CONTRACTOR AND CONCRETE CONTRACTOR PRIOR TO FOOTING POUR.
- 8. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 9. SEE THE ARCHITECTURAL DRAWINGS FOR THE SIZE AND LOCATION OF ALL NON-BEARING
- 10. CONTRACTOR TO COORDINATE FINAL SLAB ELEVATION WITH ARCHITECTURAL FLOOR AND KITCHEN FINISH REQUIREMENTS. SEE DETAIL 9/3.2 FOR DEPRESSION REQUIREMENTS. SLOPE SLAB TO FLOOR DRAINS. SEE ARCH. DRAWINGS FOR DRAIN LOCATIONS.
- 11. STEP FOOTING AS REQUIRED TO MATCH BEARING ELEVATION OF EXISTING ADJACENT
- 12. ALL CMU WALLS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REINFORCED PER THE PLAN. PROVIDE DOWELS TO FOOTING TO MATCH. REBAR SHALL BE CENTERED IN CELL U.N.O. GROUT REINFORCED CELLS SOLID.
- 13. PROVIDE JAMB REINFORCING PER 2/S5.1 AT ALL MASONRY OPENINGS. JAMB REINFORCING TO BE FULL HEIGHT OF WALL WITH MATCHING DOWELS TO FOOTING.
- 15. CONCRETE PAD WITH TURN DOWN PER 11/S3.1. COORDINATE DIMENSIONS WITH ARCH., AND
- 17. TRENCH FOR NEW UNDERGROUND UTILITIES AS REQUIRED PER MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. COORDINATE LOCATIONS AND EXTENT OF SLAB REMOVAL WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. PATCH SLAB ON GRADE PER DETAIL
- 18. REMOVE EXISTING WALL PER ARCH. PROVIDE NEW LINTEL PER 3/S5.1 AS REQUIRED. PROVIDE TEMPORARY SHORING AS REQUIRED. PATCH SLAB AT NEW DOOR OPENING THRU EXISTING WALL AS REQUIRED; SEE DETAIL 5 / S1.1.
- 19. INFILL EXISTING OPENING WITH NEW WALL PER ARCH. EXISTING WALL LINTEL TO REMAIN.
- 20. REMOVE EXISTING EXTERIOR WALL AND VENEER TO 8" BELOW FINISHED FLOOR ELEVATION. EXIST. FOUNDATION WALL & FOOTING TO REMAIN.



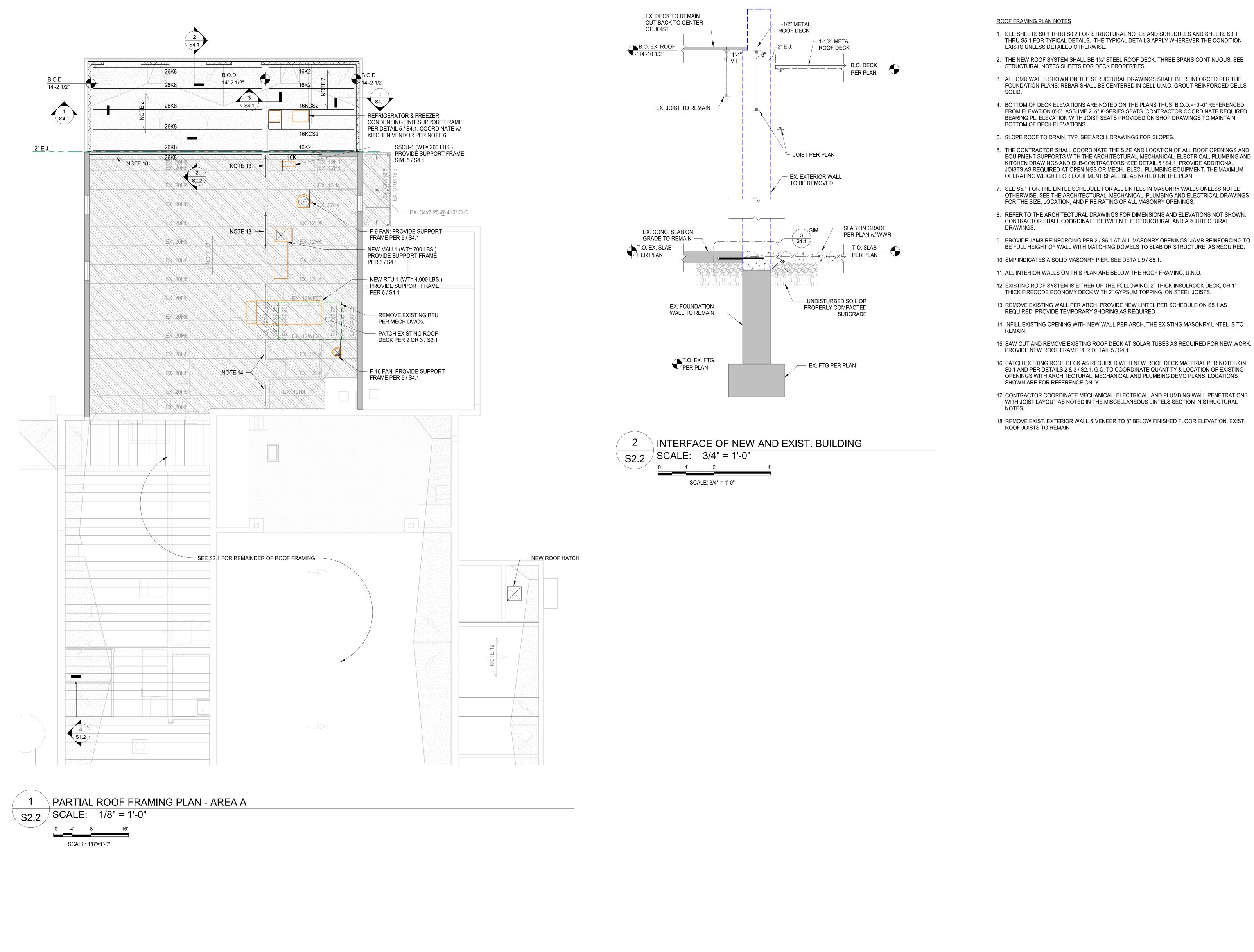
SCALE: 3/32" = 1'-0"



PLAN OF ROOF INFILL

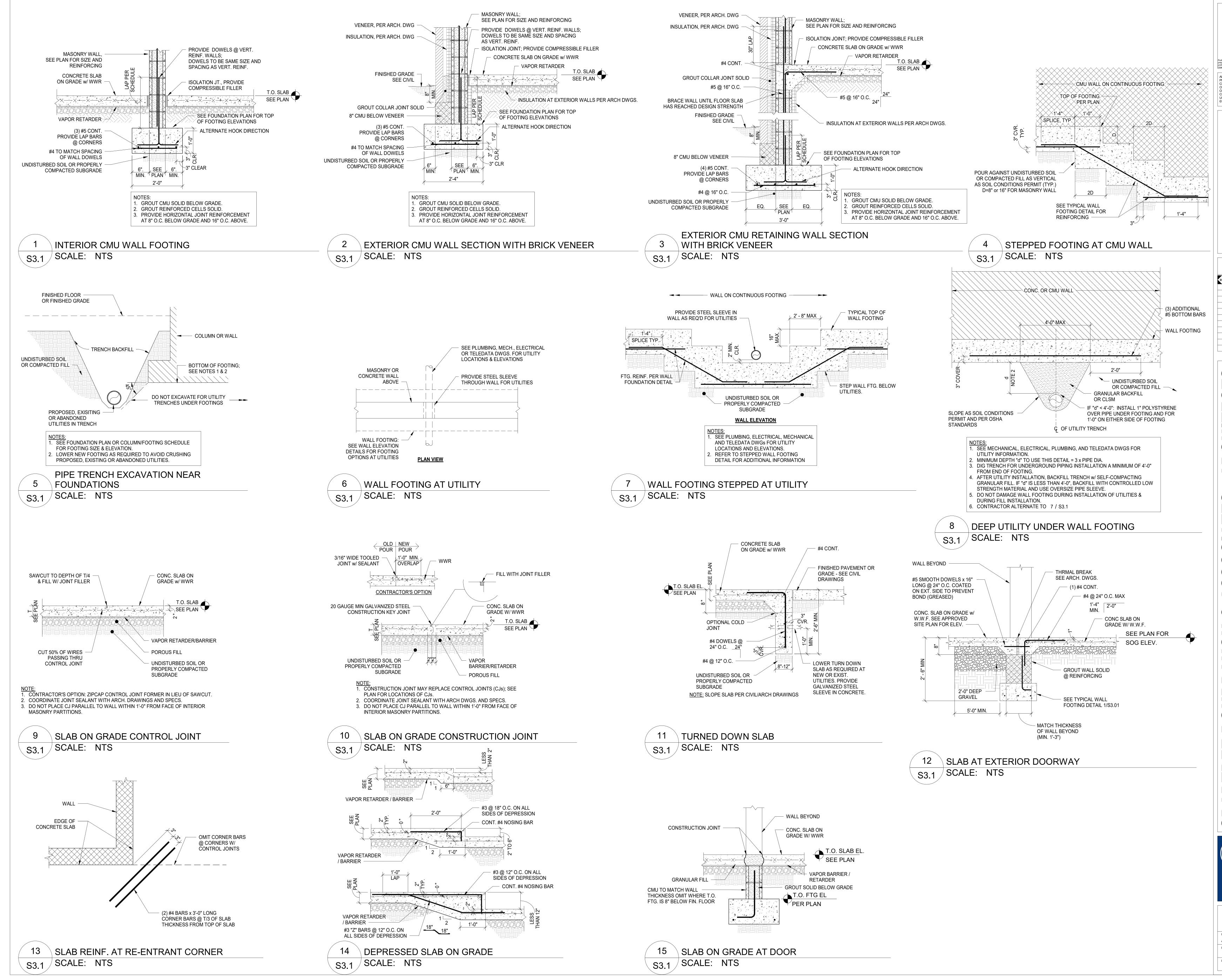
PLAN OF ROOF INFILL



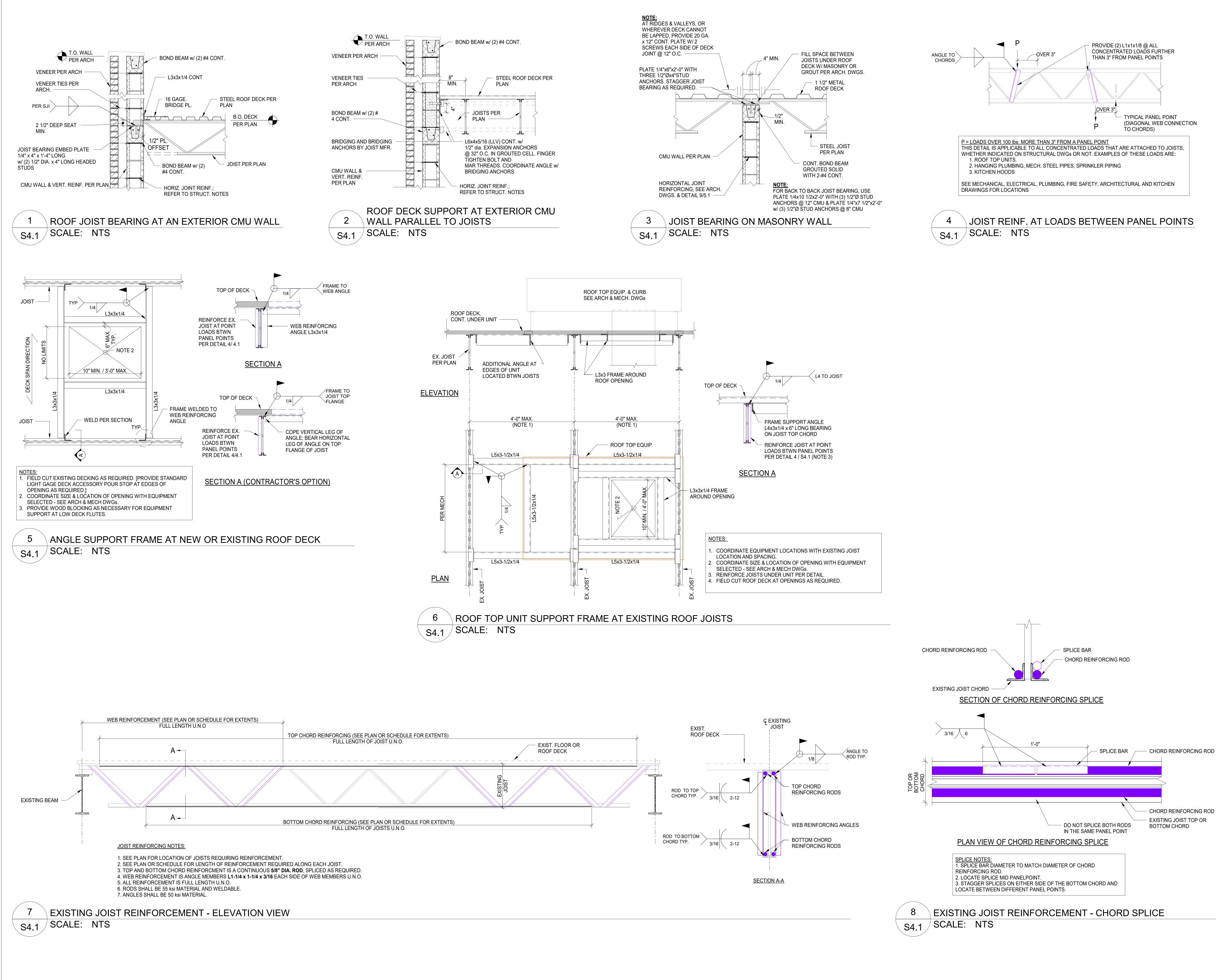


18. REMOVE EXIST. EXTERIOR WALL & VENEER TO 8" BELOW FINISHED FLOOR ELEVATION. EXIST.



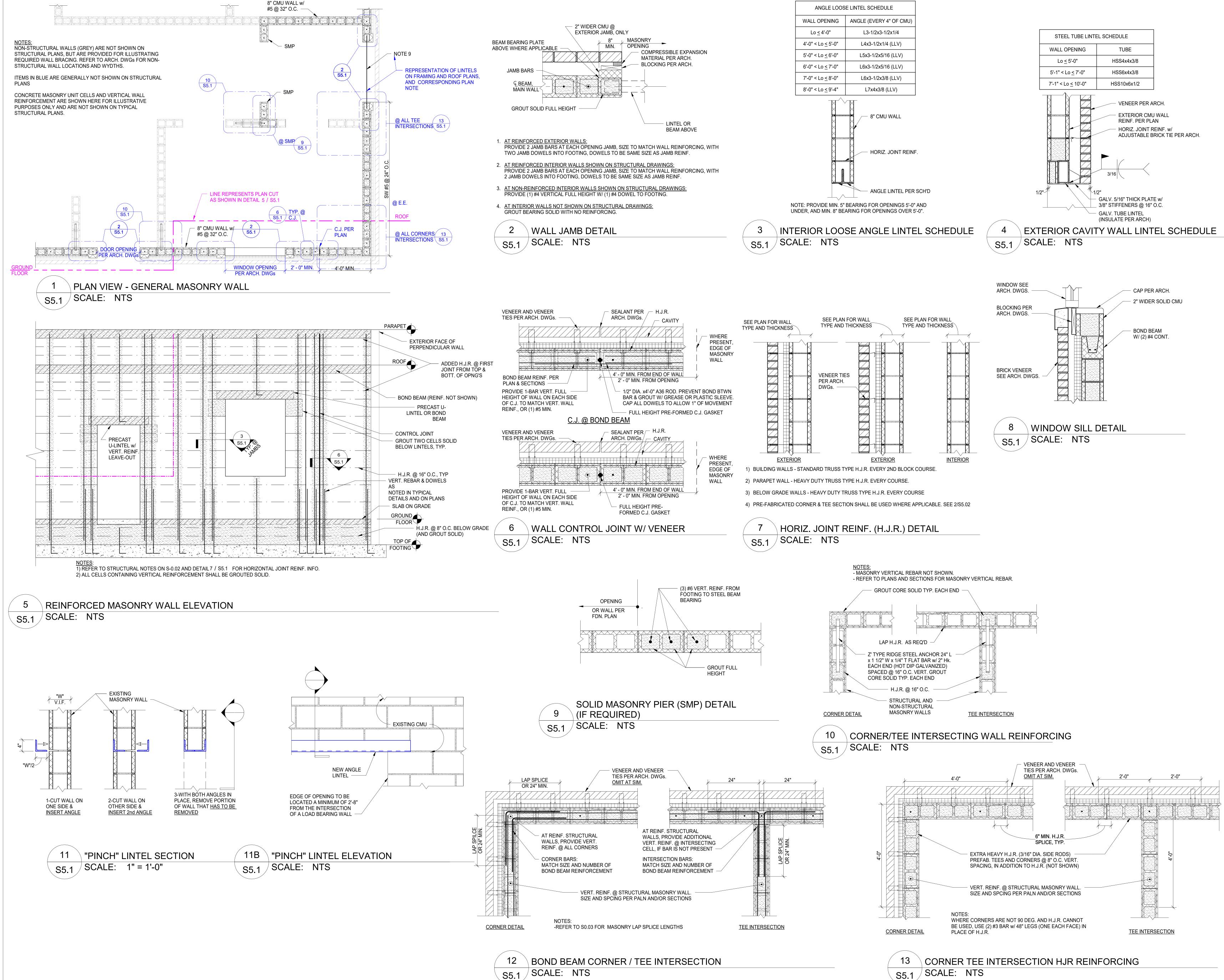






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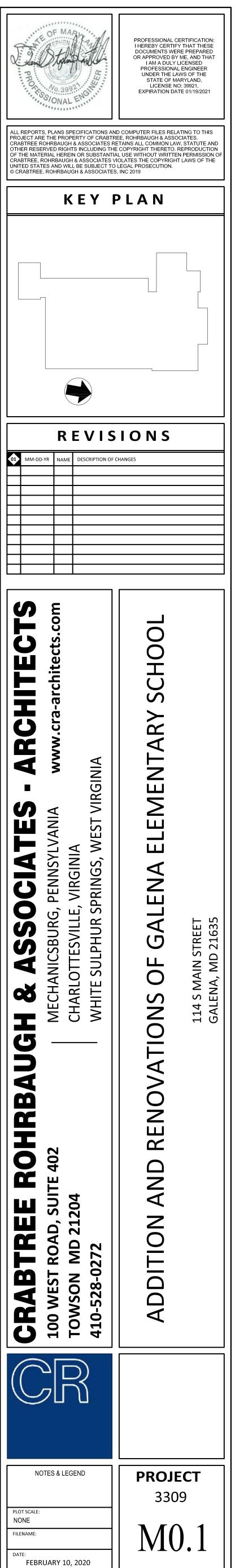


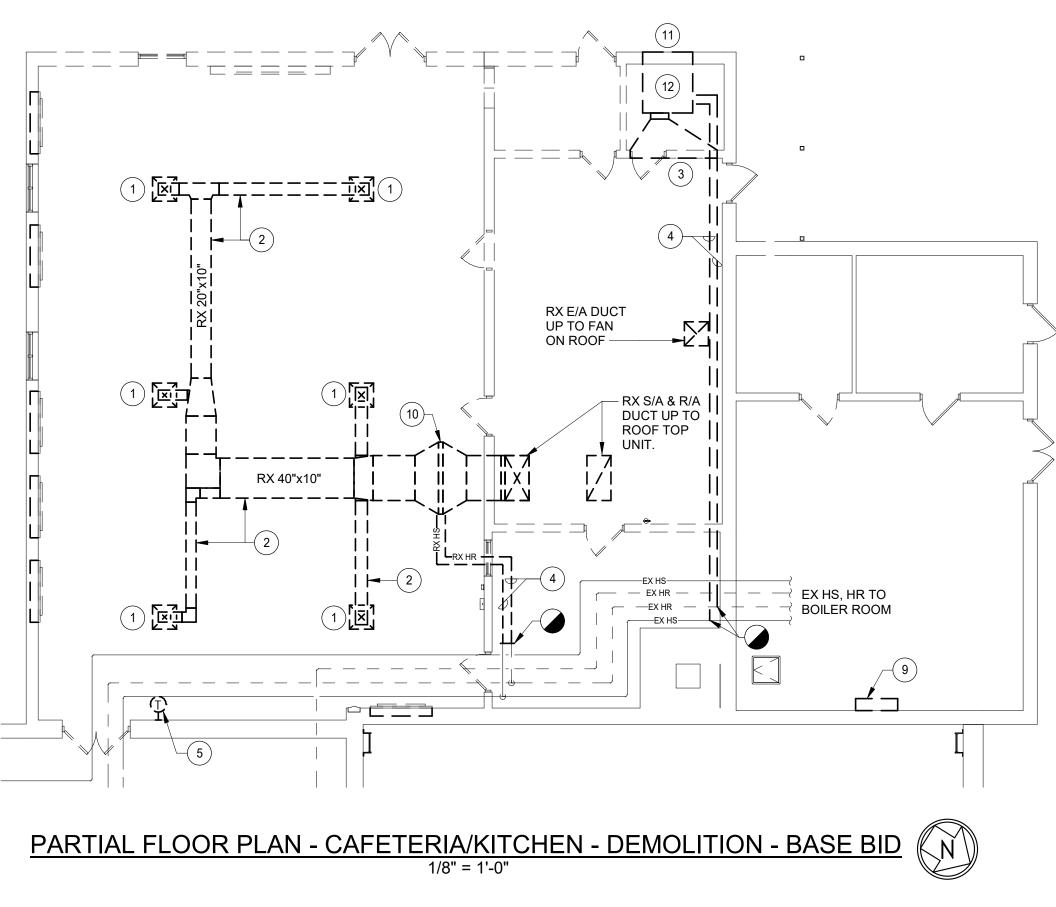


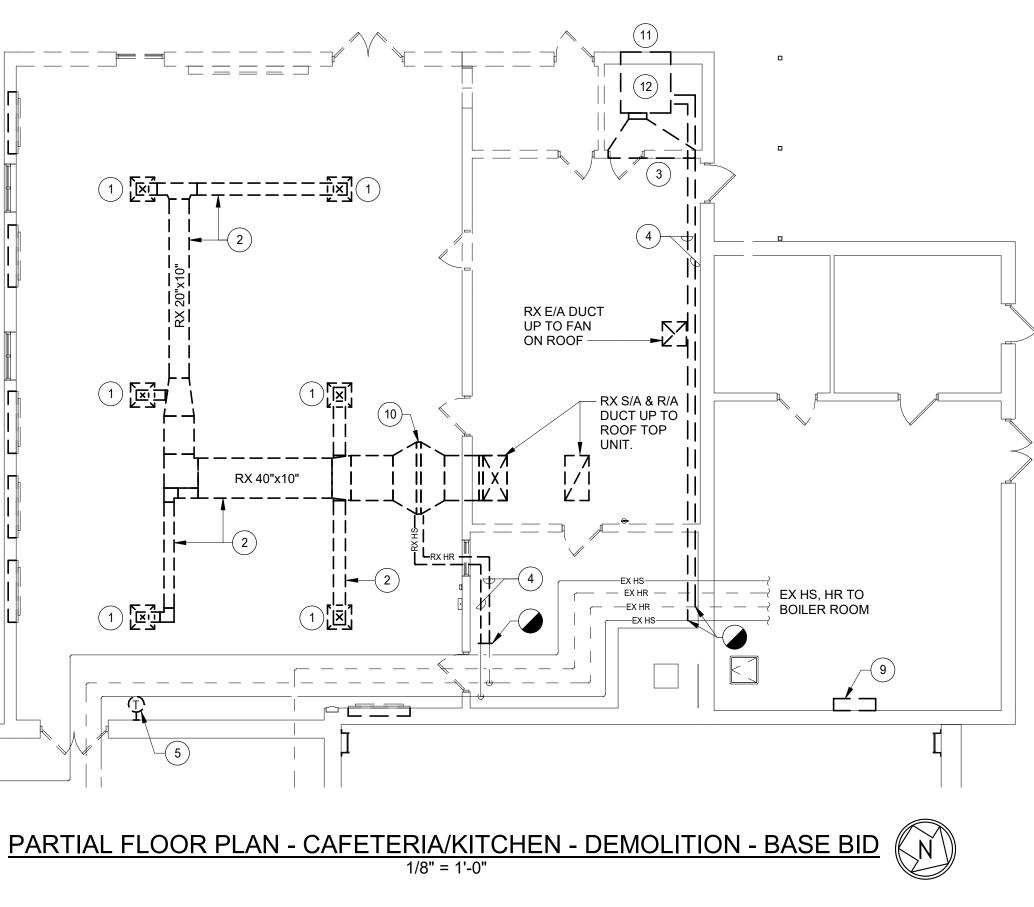
	GENERAL NOTES: (MECHANICAL)
<u>GEN</u>	ERAL NOTES AND CONDITIONS:
A.	COORDINATE NEW WORK BETWEEN ALL DISCIPLINES.
В.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS, AND REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
C.	THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATION, AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE OWNER WITH A COMPLETE PROJECT INCLUSIVE OF ALL SYSTEMS.
D.	PRIOR TO INITIATING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE ALL PORTIONS OF THE CONTRACT DOCUMENTS RELATING TO THAT PORTION OF THE WORK AND AFFECTING ADJOINING PORTIONS. IF DISCREPANCIES EXIST, THEY SHALL BE REPORTED TO THE CONSTRUCTION MANAGER FOR CLARIFICATION AND/OR RESOLUTION BEFORE COMMENCING SUCH WORK.
E.	BY SUBMITTING A BID PROPOSAL THE CONTRACTOR CERTIFIES THAT THEY HAVE VISITED THE SITE AND UNDERSTAND THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.
F.	DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL". "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES".
G.	THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTOR'S PERFORMANCE, UNLESS NOTED OTHERWISE (U.N.O.). FOR EXAMPLE, THE VERB "INSTALL" MEANS "CONTRACTOR SHALL RELOCATE", ETC.
H.	UNLESS NOTED OTHERWISE, NUMBERED DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALED DRAWINGS. DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. IF CONFLICTS EXIST ON THE DRAWINGS, THEN THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL INTERPRETATION SHALL BE MADE BY THE ENGINEER.
Ι.	SAMPLES AND SHOP DRAWINGS MUST BE SUBMITTED BY THE CONTRACTOR TO THE CONSTRUCTION MANAGER FOR REVIEW AND PROCESSING BEFORE THE PURCHASE OR FABRICATION OF ANY MATERIALS.
J.	DURING THE WORK, ANY CONDITION DISCOVERED THAT CAUSES CONFLICT WITH THE INTENDED DESIGN MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
К.	CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AT TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
L.	EXCEPT FOR PREFINISHED SURFACES, ALL ITEMS DISTURBED OR DAMAGED BY WORK SHALL BE REFINISHED TO MATCH SURROUNDING AREA OR FINISHED AS INDICATED.
М.	ALL HOLED AND PENETRATIONS IN WALLS AND CEILING SURFACES SHALL BE PATCHED AND FIRE STOPPED.
N.	ANY ALTERATION TO THE STRUCTURE (I.E. CORE DRILLING CONCRETE, ETC.) SHALL BE COORDINATED.
0.	UNLESS OTHERWISE INDICATED, ALL PIPING, CONDUIT, DUCTWORK, AND SIMILAR SERVICES SHALL BE CONCEALED.
Ρ.	GENERAL NOTES, THOSE FOUND ON THIS SHEET, APPLY TO ALL DRAWINGS RELATED TO THIS PROJECT.
Q.	DRAWING NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RESPECTIVE DRAWING WHERE THE DESIGNATIONS ARE SHOWN.
<u>gen</u>	ERAL CONSTRUCTION NOTES:
A.	LEAVE SPACE CLEAN ON COMPLETION, INCLUDING THE CLEANING OF GLASS, DOORS, FRAMES, FLOORS, GRILLES, LIGHT LENSES, ETC.
В.	REFER TO STRUCTURAL DRAWINGS FOR TYPICAL PENETRATION/OPENING/INFILL DETAILS.
C.	ALL AIR HANDLING EQUIPMENT WITH A FLOW RATE OF 2,000 CFM OR GREATER SHALL BE PROVIDED WITH SUPPLY AND RETURN AIR SMOKE DETECTORS. COORDINATE DEVICES AND INSTALLATION WITH THE FIRE ALARM SYSTEM.
D.	THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND AS ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF THE CONTRACT DOCUMENTS AND OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, THE ARCHITECT/ENGINEER SHALL DIRECT WORK TO PROCEED BY THE METHOD INDICATED, SPECIFIED OR REQUIRED BY CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE ARCHITECT/ENGINEER. SUCH DIRECTION BY THE ARCHITECT/ENGINEER SHALL NOT ENTITLE THE CONTRACTOR TO ANY CLAIM FOR EXTRA COST.
E.	IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.

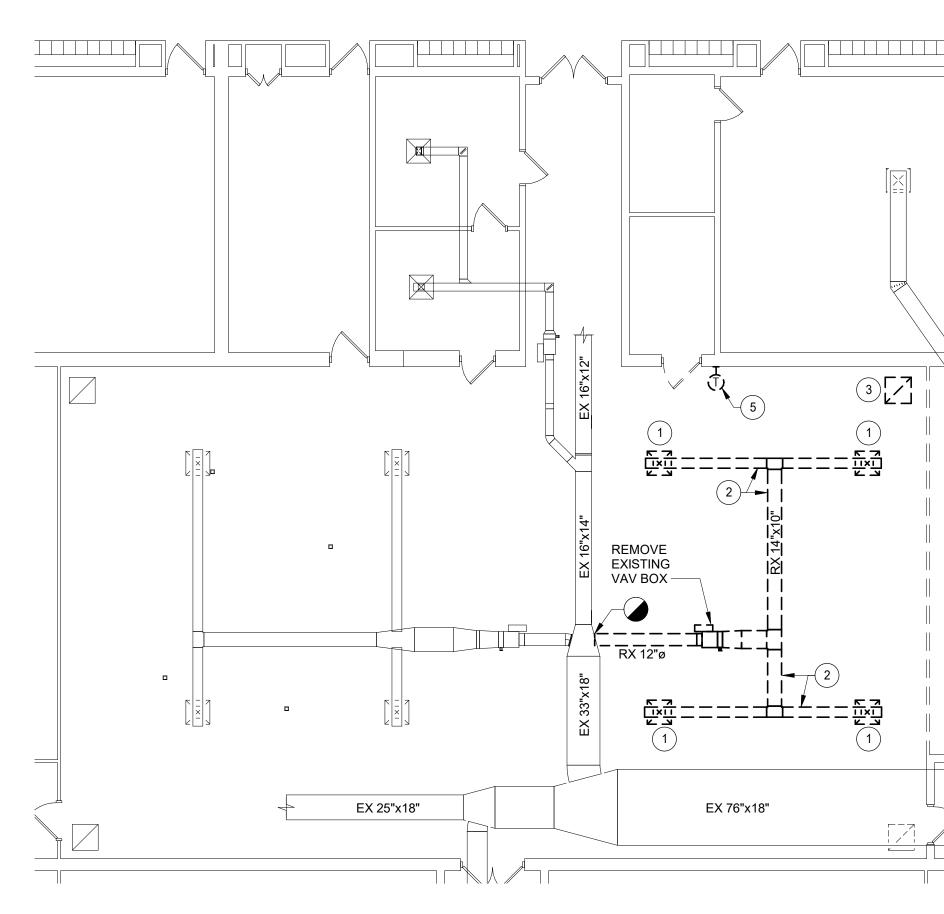
SYMBOL	ABBREV.	DEFINITION	SYMBOL	ABBREV.	DEFINITION
	SA	SUPPLY AIR DUCT UP, DOWN	ø	DIA.	DIAMETER
		RETURN AIR DUCT UP, DOWN		FOT	FLAT ON TOP
				FOB AFPF	FLAT ON BOTTOM
	EA	EXHAUST AIR DUCT UP, DOWN		DL	DOOR LOUVER
	OA	OUTSIDE AIR DUCT UP, DOWN		AP HPS	ACCESS PANEL HIGH PRESSURE STEAM
		RECT. TO ROUND TRANSITION		LPS	LOW PRESSURE STEAM
		FLEXIBLE CONNECTION (DUCTWORK)	SC HS(P)	SC HS(P)	STEAM CONDENSATE
		FLEXIBLE DUCT	— —HR(P)— —	HR(P)	HEATING RETURN (PRIMAR)
	VD	MANUAL VOLUME DAMPER	——HS(S)———	HS(S) HR(S)	HEATING SUPPLY (SECONDAN HEATING RETURN (SECONDAN
<u> </u>	FD	FIRE DAMPER	ня ——	HIX(S) HS	HEATING SUPPLY
-\/\/\/\/	MOD	MOTOR OPERATED DAMPER	— — HR — —	HR CS	HEATING RETURN CONDENSER WATER SUPPL
- \/\///-0	SD	SMOKE DAMPER	R	CR	CONDENSER WATER SOLLE
- \/\///-A	CD	COMBINATION FIRE/SMOKE DAMPER	—— HPWS ——	HPWS HPWR	HEAT PUMP WATER SUPPL
	AMS	AIR MONITORING STATION	— — HPWR — — —	CW	HEAT PUMP WATER RETUR
	SA	SOUND ATTENUATOR	COND	CD/COND	CONDENSATE DRAIN LINE
	DD	DUCT SMOKE DETECTOR	X	F&T	FLOAT AND THERMOSTATIC TRA
	00			BTU	BRITISH THERMAL UNIT
		ELBOW W/ TURNING VANES		MBH SENS.	BTU PER HOUR (THOUSAN SENSIBLE
<u>_</u>		RADIUS ELBOW		WG	WATER GAUGE
	FPTU	FAN POWERED VAV BOX W/ HEAT COIL		VEL FPM	VELOCITY FEET PER MINUTE
	SL	ACOUSTICAL SOUND LINING		LF	LINEAR FOOT
		DUCT TRANSITION		KW	KILOWATT MINIMUM
		CHANGE IN ELEVATION RISE(R),DROP(D)		MIN MAX	MINIMUM
		POWER ROOF VENTILATOR		NC	NOISE CRITERIA
		GATE VALVE		DB EMS	DECIBEL ENERGY MANAGEMENT SYSTE
		GLOBE VALVE		SAF	SUPPLY AIR FAN
<u> </u>		BALL VALVE		OAF RAF	OUTSIDE AIR FAN RETURN AIR FAN
		MULTI-PURPOSE VALVE		EAF	EXHAUST AIR FAN
		CHECK VALVE		LBS TEMP	POUNDS TEMPERATURE
		BUTTERFLY VALVE		EXH	EXHAUST
				OC TONS	ON CENTER TONS OF REFRIGERATION
		3-WAY MODULATING VALVE (ATC)		SQ	SQUARE
		2-WAY MODULATING VALVE (ATC)		OAT	OUTSIDE AIR TEMPERATUR
<u> </u>	PRV	PRESSURE REDUCING VALVE		STD 	STANDARD TEMPERATURE DIFFERENCE
		NEEDLE VALVE		%	PERCENT
۲¢		PRESSURE RELIEF OR SAFETY VALVE		EFF. ELECT. CHAR	EFFICIENCY ELECTRICAL CHARACTERIST
エ	HED	HOSE END DRAIN VALVE		CAP	CAPACITY
		STRAINER W/HOSE END DRAIN VALVE & CAP		SB FT. H₂O	STAND-BY FEET WATER GAUGE
		AUTOMATIC AIR VENT		IN. H ₂ O	INCHES WATER GAUGE
<u> </u>		FLOW METER FITTING		ATC EX	AUTOMATIC TEMPERATURE CONTR EXISTING
$-\otimes$		COMBINATION SHUT-OFF/BALANCING VALVE		RX	REMOVE EXISTING
		UNION			CONNECT TO EXISTING DEMOLITION ENDS HERE
		FLANGE		VSD	VARIABLE SPEED DRIVE
		CONCENTRIC REDUCER		*F CFM	DEGREES FAHRENHEIT CUBIC FEET PER MINUTE
		ECCENTRIC REDUCER		GPM	GALLONS PER MINUTE
0				EAT	ENTERING AIR TEMPERATU
		FLEXIBLE CONNECTION (PIPING)		LAT EWT	LEAVING AIR TEMPERATUR
<u> </u>		MANUAL AIR VENT		LWT	LEAVING WATER TEMPERATU
		THERMOMETER		DB WB	DRY BULB WET BULB
		PRESSURE GAUGE W/NEEDLE VALVE		PD	PRESSURE DROP
□ _(N)		TEMPERATURE SENSOR (NIGHT SETBACK)		WPD APD	WATER PRESSURE DROP
Ũ	T'STAT	THERMOSTAT		APD SP	STATIC PRESSURE
6		FAN SWITCH		ESP PSI	EXTERNAL STATIC PRESSUR
101		STATIC PRESSURE GAUGE		HP	HORSEPOWER
	DP	DIFFERENTIAL PRESSURE CONTROLLER		BHP	BRAKE HORSEPOWER
	DPT	DIFFERENTIAL PRESSURE TRANSMITTER		RPM FPM	REVOLUTIONS PER MINUTE
	AFC	AUTOMATIC FLOW CONTROL VALVE		V	VOLTS
FS]	FS	FLOW SWITCH		Hz DIFF	HERTZ DIFFUSER
(SP)		STATIC PRESSURE CONTROLLER		REG	REGISTER
				AFF W/	ABOVE FINISHED FLOOR WITH
		PIPE ALIGNMENT GUIDE	Ø	FÓ	FLAT OVAL
<u> </u>		PIPE ANCHOR		SS HT.	STAINLESS STEEL HEIGHT
┛_└─┤		EXPANSION LOOP		REQ'D	REQUIRED
ŀ		UNIT HEATER		DWG	DRAWING
<u> </u>		PITCH OF PIPE, % SLOPE		No. VAV	NUMBER VARIABLE AIR VOLUME
c		PIPE-TURN DOWN		EF	EXHAUST FAN
o		PIPE-TURN UP		FZ SD	FREEZE STAT SMOKE DAMPER
		SOLENOID VALVE		SPC	STATIC PRESSURE CONTROLL
		END CAP		AHU	AIR HANDLING UNIT
		BLIND FLANGE		OAT SWT	OUTSIDE AIR TEMPERATUR SUPPLY WATER TEMPERATUR
		DIRECTION OF FLOW		NO	NORMALLY OPEN
 '				NC	NORMALLY CLOSED

LINETYF	PE LEGEND
SYMBOL	DEFINITION
	DEMOLITION
	EXISTING TO REMAIN
	NEW WORK
	BROKEN AND DASHED WORK BELOW

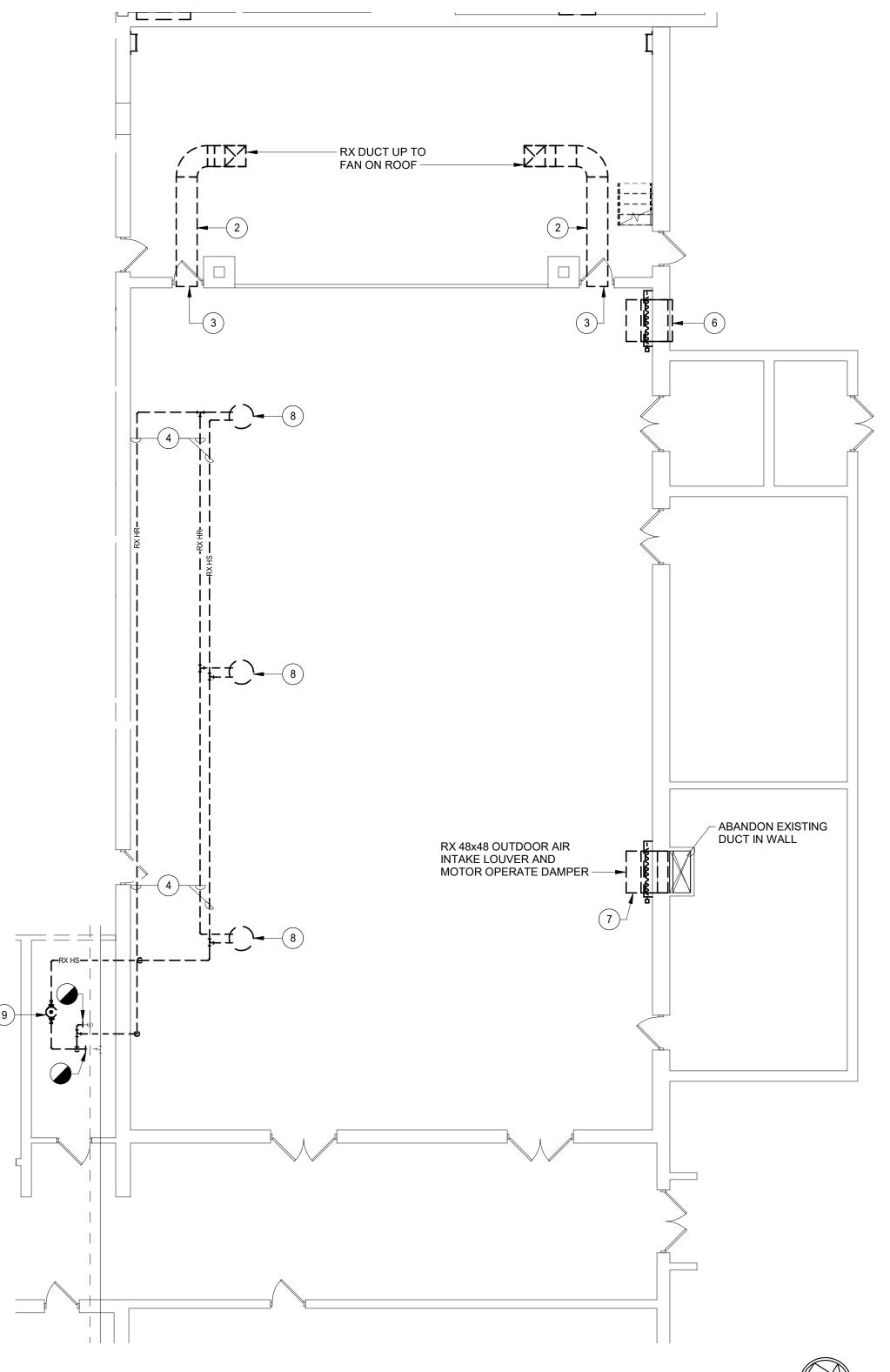


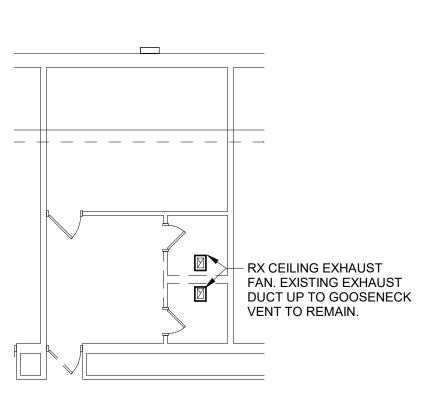






PARTIAL FLOOR PLAN - MEDIA CENTER - DEMOLITION - ALT. GC-2 1/8" = 1'-0"





PARTIAL FLOOR PLAN - TOILET ROOM - DEMOLITION - ALT. GC-3 1/8" = 1'-0"

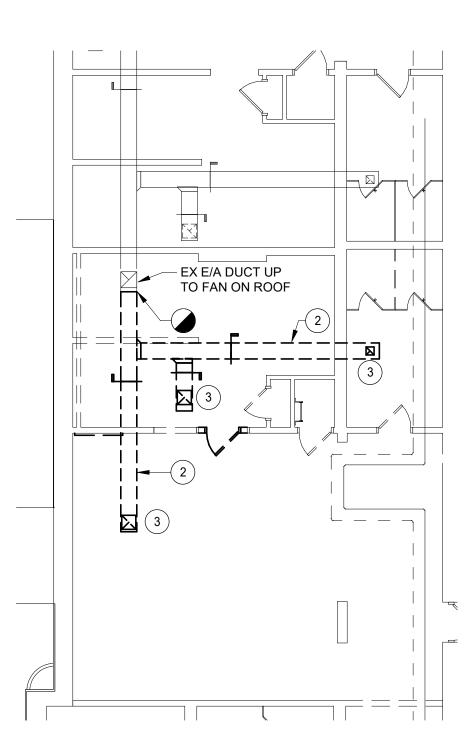
GENERAL NOTES:

- 1. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES. ALL ROOFING WORK SHALL BE PERFORMED BY A CERTIFIED ROOFING CONTRACTOR TO MAINTAIN THE EXISTING WARRANTY IN THE AREAS OF WORK. **DRAWING NOTES:**
- REMOVE EXISTING SUPPLY AIR DIFFUSER AND ALL (1) ASSOCIATED DUCTWORK, INSULATION, HANGERS,

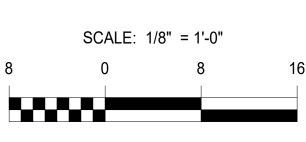
(2)

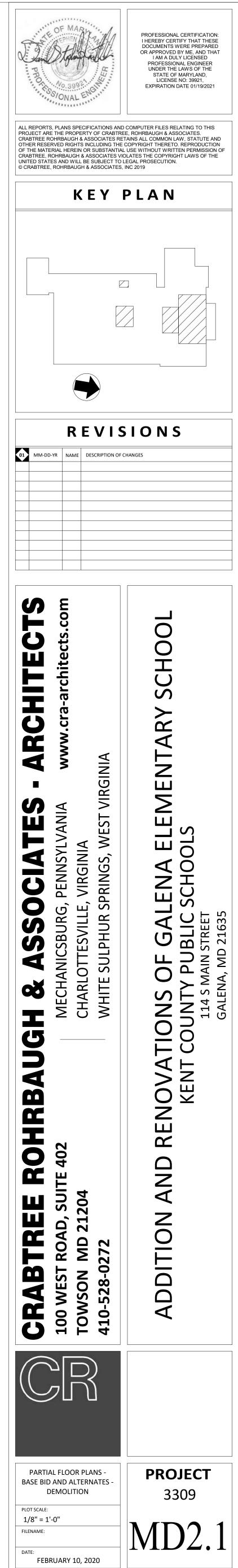
- SUPPORTS, ETC. IN IT'S ENTIRETY. REMOVE EXISTING DUCTWORK, INSULATION, HANGERS, SUPPORTS, AIR DEVICES, ETC IN IT'S ENTIRETY.
- REMOVE EXISTING GRILLE AND ALL ASSOCIATED (3) DUCTWORK, INSULATION, HANGERS, SUPPORTS, ETC. IN
- IT'S ENTIRETY. (4) REMOVE EXISTING HEATING WATER PIPING AND ALL ASSOCIATED INSULATION, HANGERS, SUPPORTS, VALVES
- ETC. IN IT'S ENTIRETY. (5) REMOVE EXISTING THERMOSTAT AND ALL ASSOCIATED
- CONTROLS ETC. IN IT'S ENTIRETY.
- (6) REMOVE EXISTING 48x48 DUCT, MOTOR OPERATED DAMPER AND OUTDOOR AIR INTAKE LOUVER. EXISTING PENETRATION TO BE INFILLED TO MATCH EXISTING WALL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING 48x48 DUCT AND MOTOR OPERATED DAMPER INTO EXISTING WALL. EXISTING PENETRATION TO BE INFILLED AND PATCHED TO MATCH EXISTING WALL. EXISTING DUCT IN WALL AND UP IN CHASE TO BE ABANDONED IN PLACE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (8)REMOVE EXISTING UNIT HEATER AND ALL ASSOCIATED PIPING, VALVES, CONTROLS INSULATION, HANGERS, SUPPORTS ETC. IN IT'S ENTIRETY.
- (9) REMOVE EXISTING INLINE HEATING WATER PUMPS AND ALL ASSOCIATED PIPING, INSULATION, CONTROLS, VALVES ETC IN IT'S ENTIRETY.
- (10) REMOVE EXISTING DUCT MOUNTED HEATING WATER COIL AND ALL ASSOCIATED PIPING, VALVES, CONTROLS
- INSULATION, HANGERS, SUPPORTS ETC. IN IT'S ENTIRETY. (11) REMOVE EXISTING OUTDOOR AIR LOUVER IN IT'S
- ENTIRETY. (12) REMOVE EXISTING MAKE-UP AIR UNIT AND ALL
- ASSOCIATED PIPING, VALVES, CONTROLS INSULATION, HANGERS, SUPPORTS ETC. IN IT'S ENTIRETY.
- (13) REMOVE EXISTING HEAD END CONTROLLER. REFER TO DRAWING M2.1 FOR ADDITIONAL INFORMATION.

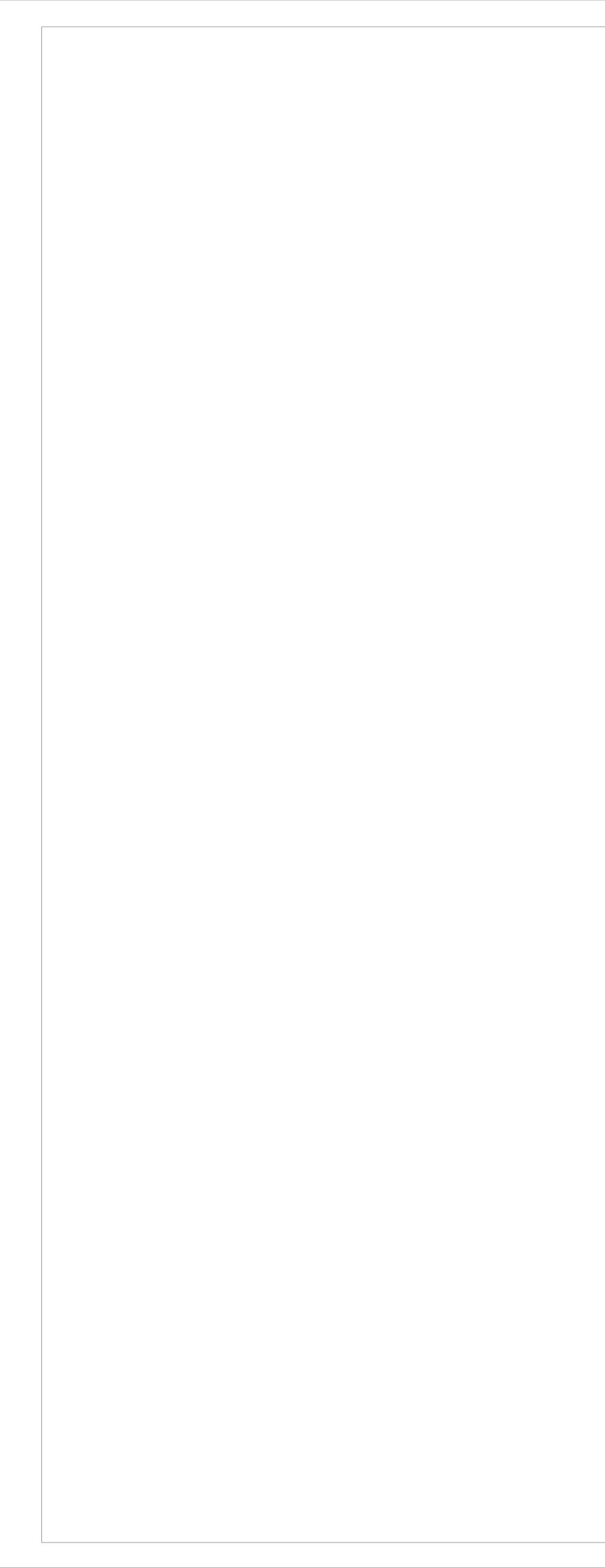
PARTIAL FLOOR PLAN - GYM - DEMOLITION - BASE BID

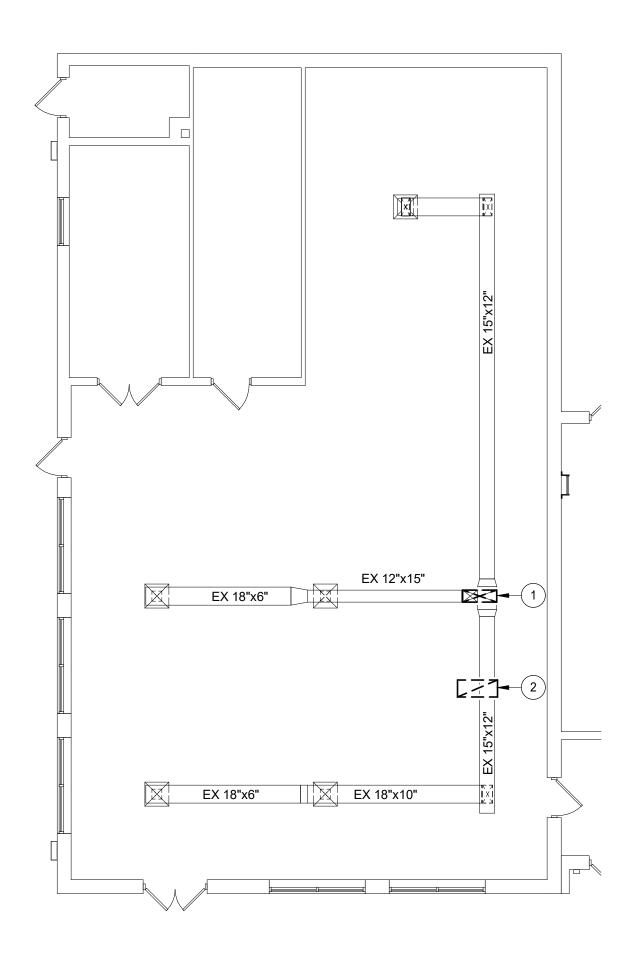


PARTIAL FLOOR PLAN - LANGUAGE SUPPORT - DEMOLITION - ALT. GC-1

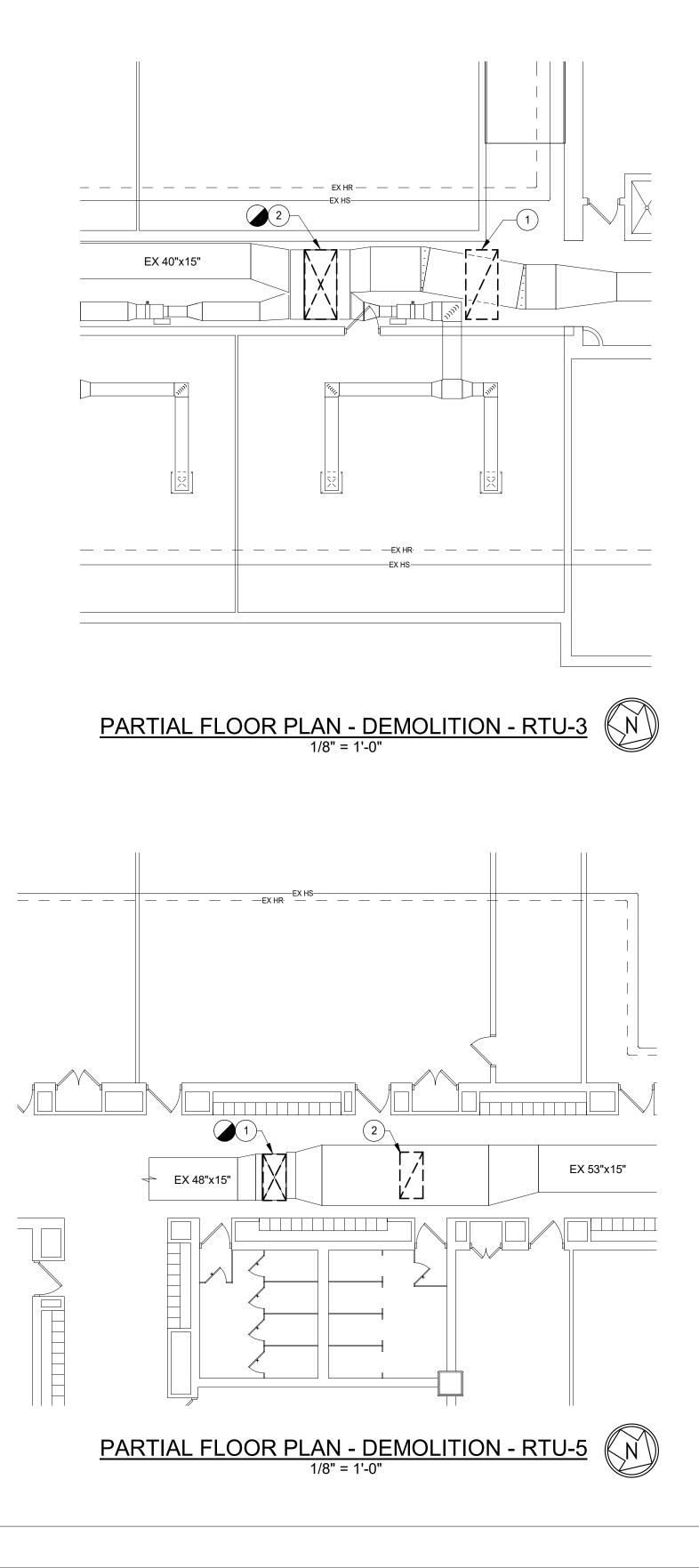




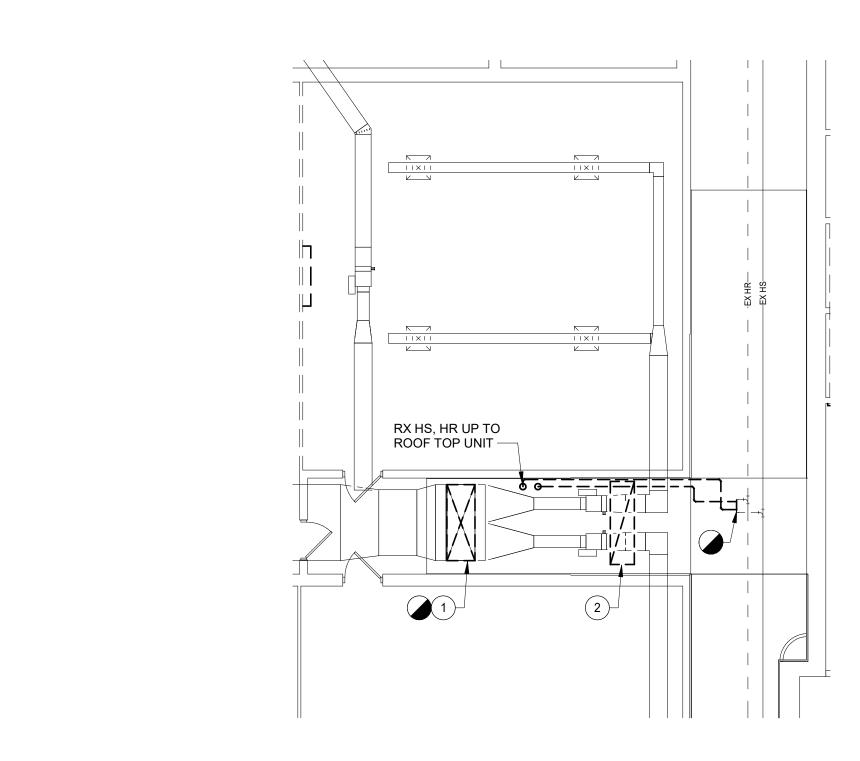




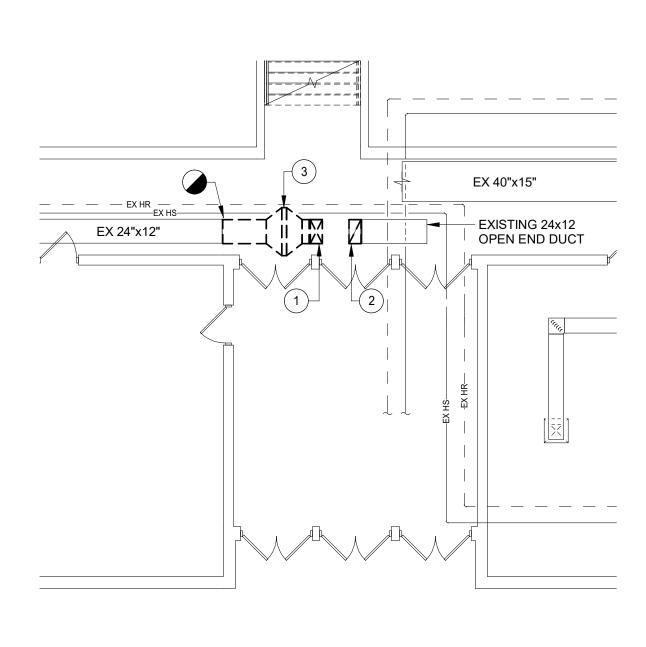




PARTIAL FLOOR PLAN - DEMOLITION - RTU-2



PARTIAL FLOOR PLAN - DEMOLITION - RTU-4



PARTIAL FLOOR PLAN - DEMOLITION - RTU-6

GENERAL NOTES:

- 1. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.
- 2. IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.

DRAWING NOTES:

(1)

RX S/A DUCT UP TO RTU ON ROOF.

(2) RX OPEN END PLENUM R/A DUCT UP TO RTU ON ROOF.

3 REMOVE EXISTING DUCT MOUNTED HEATING WATER COIL AND ALL ASSOCIATED PIPING, VALVES, CONTROLS INSULATION, HANGERS, SUPPORTS ETC. IN IT'S ENTIRETY.

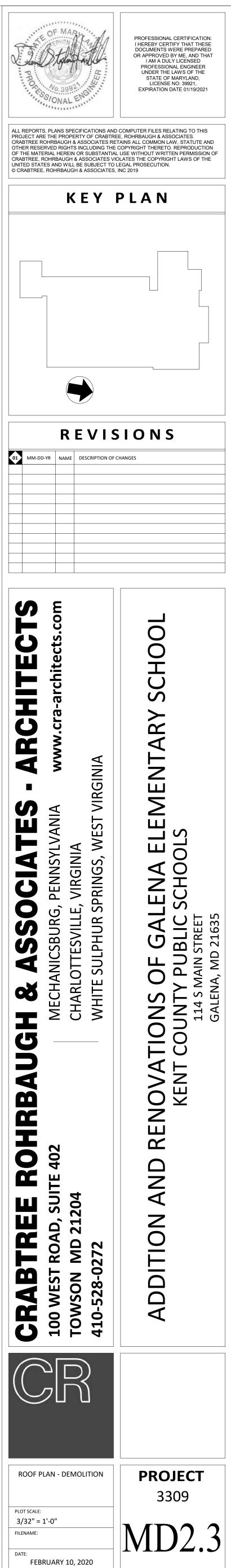


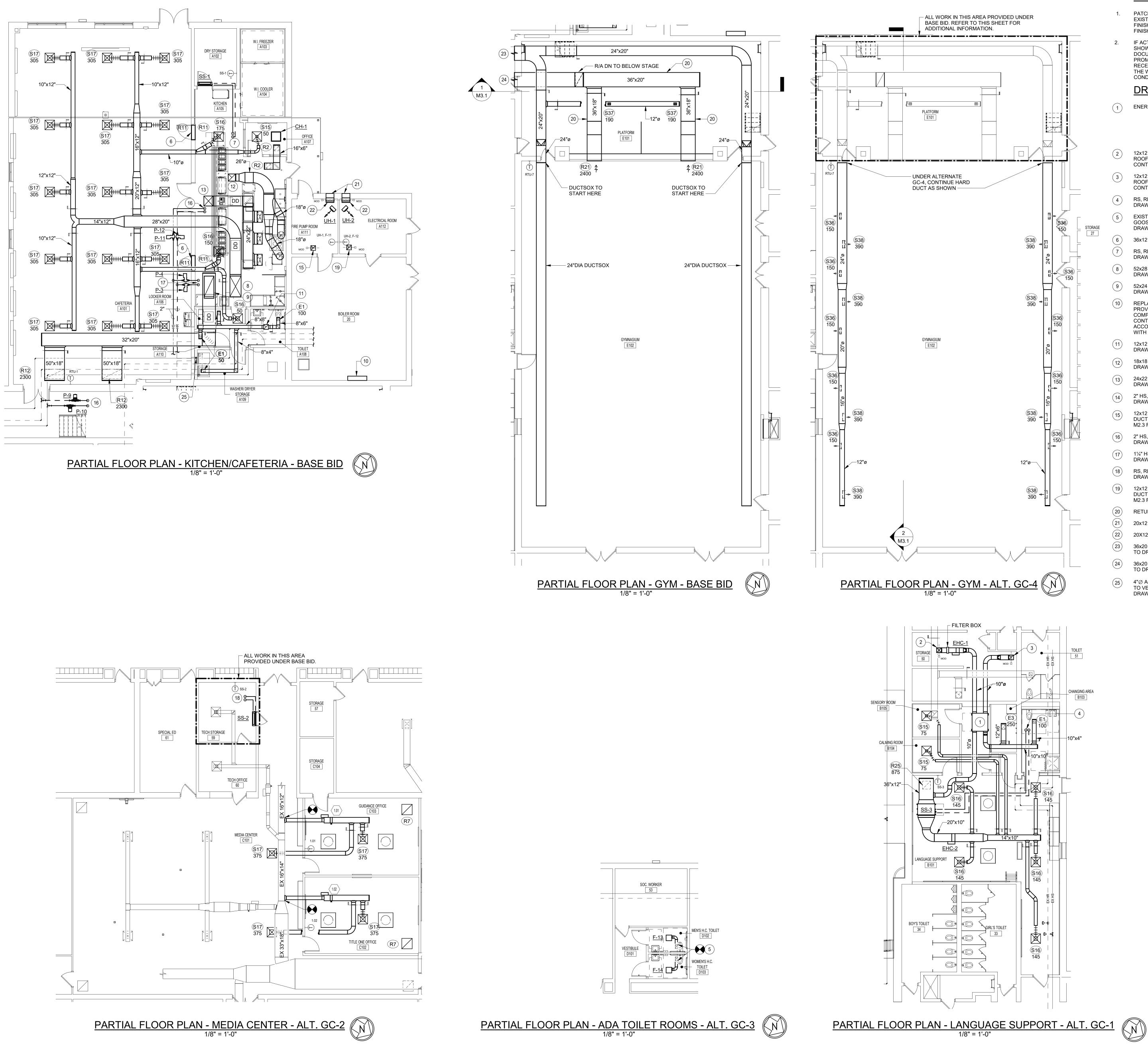


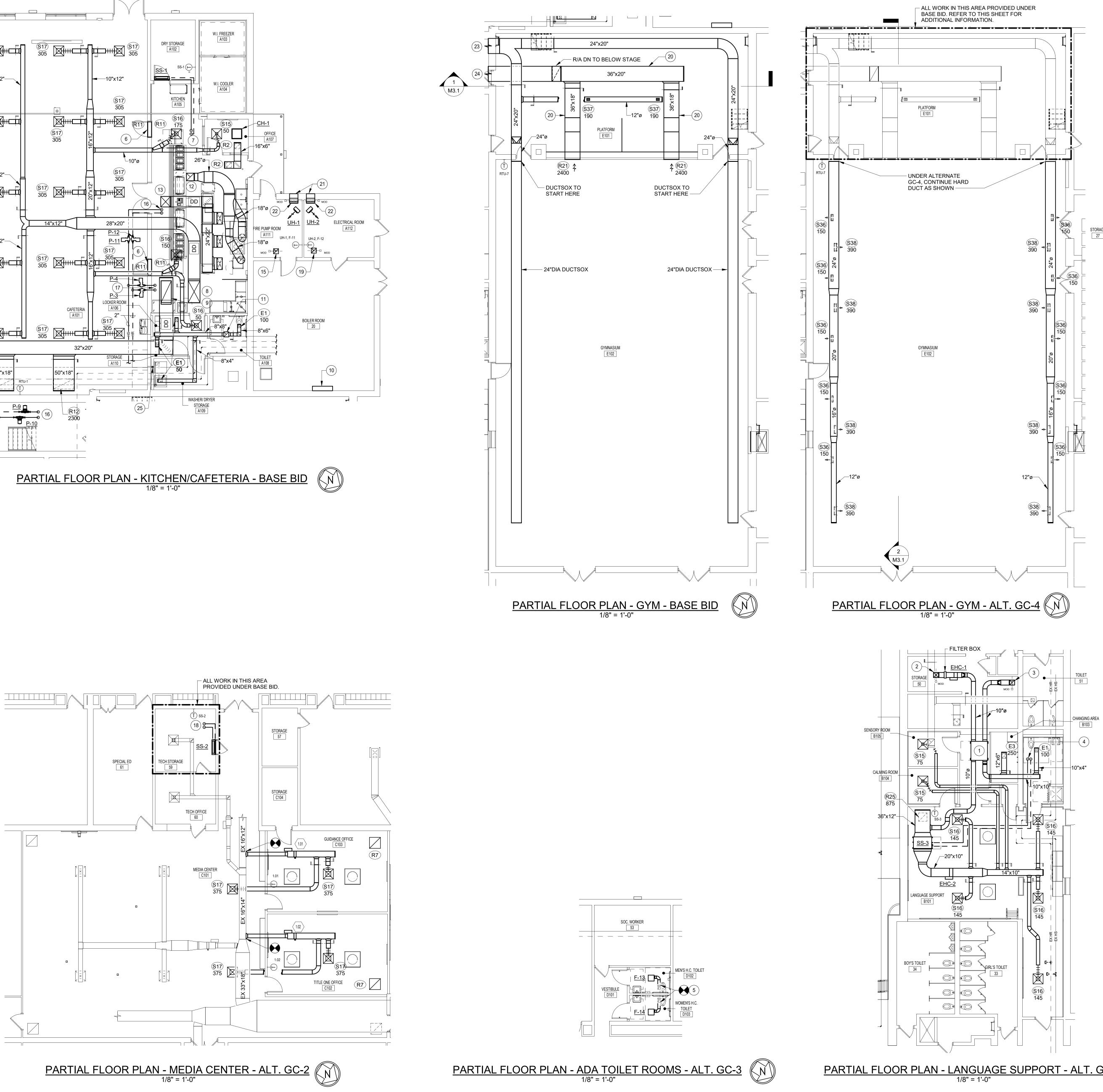
PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH
EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC),
FINISHES ETC. AND PAINT TO MATCH EXISTING
FINISHES. ALL ROOFING WORK SHALL BE
PERFORMED BY A CERTIFIED ROOFING
CONTRACTOR TO MAINTAIN THE EXISTING
WARRANTY IN THE AREAS OF WORK.

DRAWING NOTES:

- REMOVE EXISTING ROOF TOP UNIT, CONTROLS, PIPING (1)ETC, CURB & ADAPTER CURB IN IT'S ENTIRETY. REFRIGERANT SHALL BE CAREFULLY EVACUATED, STORED, AND DISPOSED OF IN ACCORDANCE WITH EPA CLEAN AIR ACT AND THE AUTHORITIES HAVING JURISDICTION.
- REMOVE EXISTING CAPPED ROOF CURB IN IT'S ENTIRETY.
- REMOVE EXISTING CAPPED CHIMNEY IN IT'S ENTIRETY. REMOVE EXISTING EXHAUST FAN, CURB, CONTROLS,
- (4) DUCTWORK ETC. IN IT'S ENTIRETY.
- (5) EXISTING EXHAUST FAN TO REMAIN.
- EXISTING GOOSENECK EXHAUST VENT THROUGH ROOF.
- REMOVE EXISTING EXHAUST VENT ON ROOF, CURB ETC IN IT'S ENTIRETY.



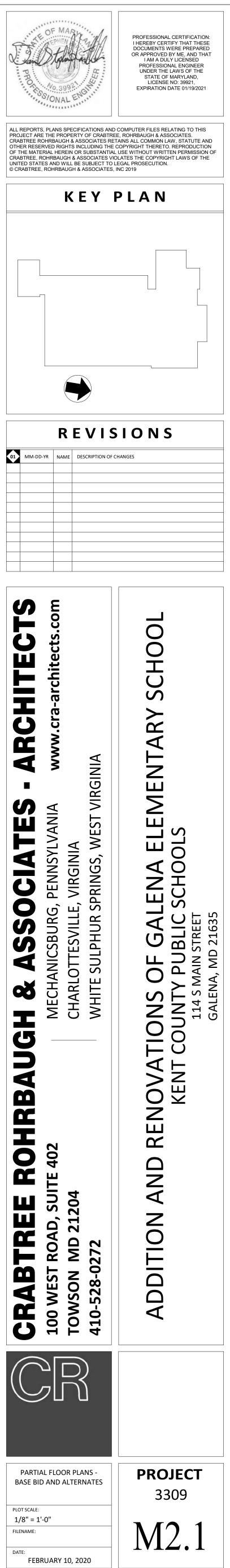


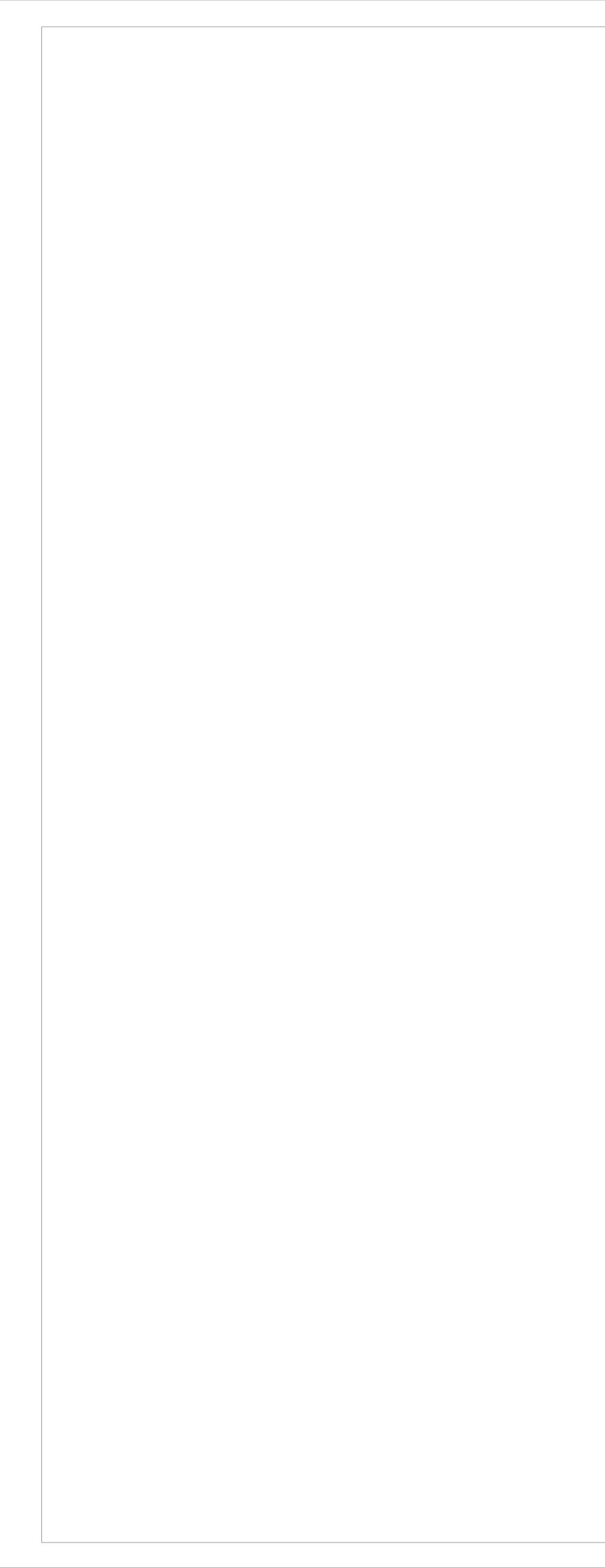


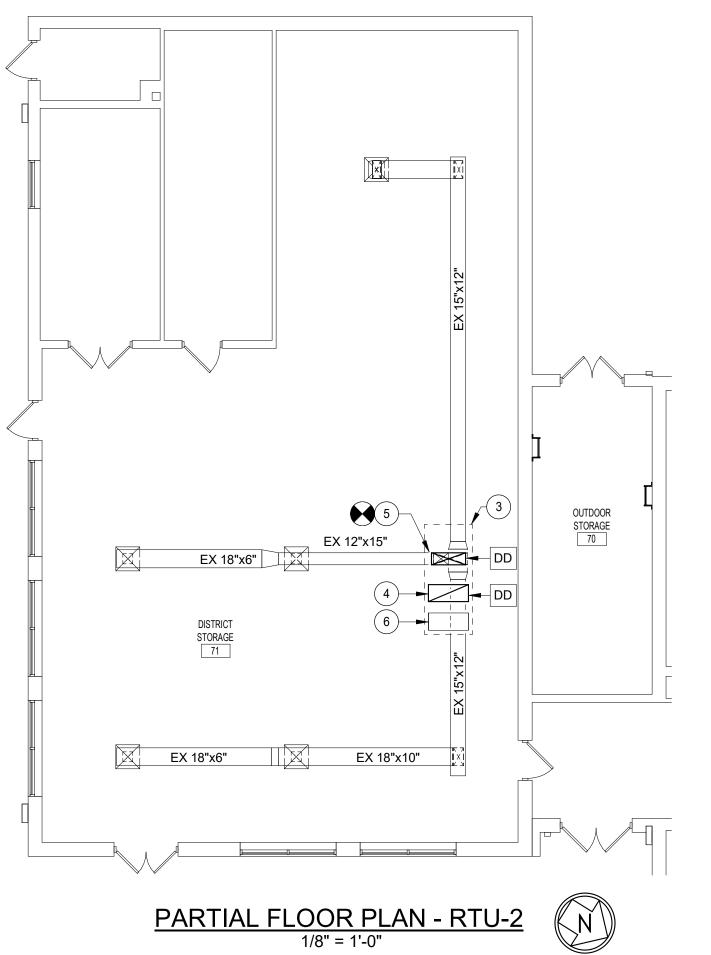
1.	PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.
2.	IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.
	DRAWING NOTES:
1	ENERGY RECOVERY UNIT, <u>ER-1</u> LOSSNAY CROSS-FLOW ENERGY RECOVERY CORE CAPACITY: 470 CFM ELEC CHAR: 208/1/60 BASED ON MITSUBISHI LOSSNAY MODEL LGH-F470RX5-E1.
2	12x12 O/A DUCT UP TO GRAVITY INTAKE VENT ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
3	12x12 E/A DUCT UP TO GRAVITY RELIEF VENT ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
4	RS, RL PIPING UP TO <u>SSCU-3</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
5	EXISTING 10x6 E/A DUCT UP TO EXISTING GOOSENECK VENT ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
6	36x12 TRANSFER AIR DUCT ABOVE DOOR.
7	RS, RL PIPING UP TO <u>SSCU-1</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
8	52x28 S/A DUCT UP TO <u>RTU-1</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
9	52x24 R/A DUCT UP TO RTU-1 ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
10	REPLACE EXISTING HEAD END CONTROLLER. PROVIDE ALL PROGRAMMING AND REQUIRED COMPONENTS TO MAINTAIN ALL EXISTING CONTROL FUNCTIONALITY, POINTS, ETC. AND ACCOMMODATE ALL CONTROLS ASSOCIATED WITH THE SCOPE OF THIS PROJECT.
(11)	12x12 E/A DUCT UP TO <u>F-10</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION
(12)	18x18 E/A DUCT UP TO <u>F-9</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION
13	24x22 S/A DUCT UP TO <u>MAU-1</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION
(14)	2" HS, HL UP TO <u>RTU-1</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
(15)	12x12 O.E.D WITH ½"x½" MESH BIRDSCREEN. E/A DUCT UP TO <u>F-11</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION
16	2" HS, HL UP TO <u>RTU-7</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
(17)	1¼" HS, HL UP TO <u>MAU-1</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
(18)	RS, RL PIPING UP TO <u>SSCU-3</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
(19)	12x12 O.E.D WITH ½"x½" MESH BIRDSCREEN. E/A DUCT UP TO <u>F-12</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION
20	RETURN AIR DUCTWORK BELOW STAGE.
21	20x12 OUTDOOR AIR INTAKE LOUVER.
(22)	20X12 O/A O.E.D WITH 1/2"x1/2" MESH BIRDSCREEN.

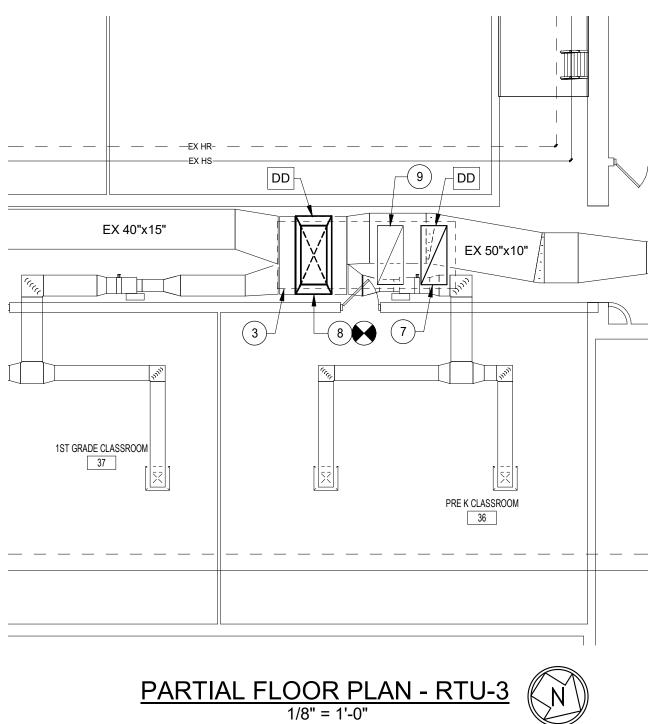
- 36x20 S/A DUCT THROUGH WALL TO <u>RTU-7</u>. REFER TO DRAWING M2.3 FOR CONTINUATION.
- 24 36x20 R/A DUCT THROUGH WALL TO <u>RTU-7</u>. REFER TO DRAWING M2.3 FOR CONTINUATION.
- 4"Ø ALUMINUM DRYER VENT DN TO UNIT AND UP TO VENT TERMINAL ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION. (25)

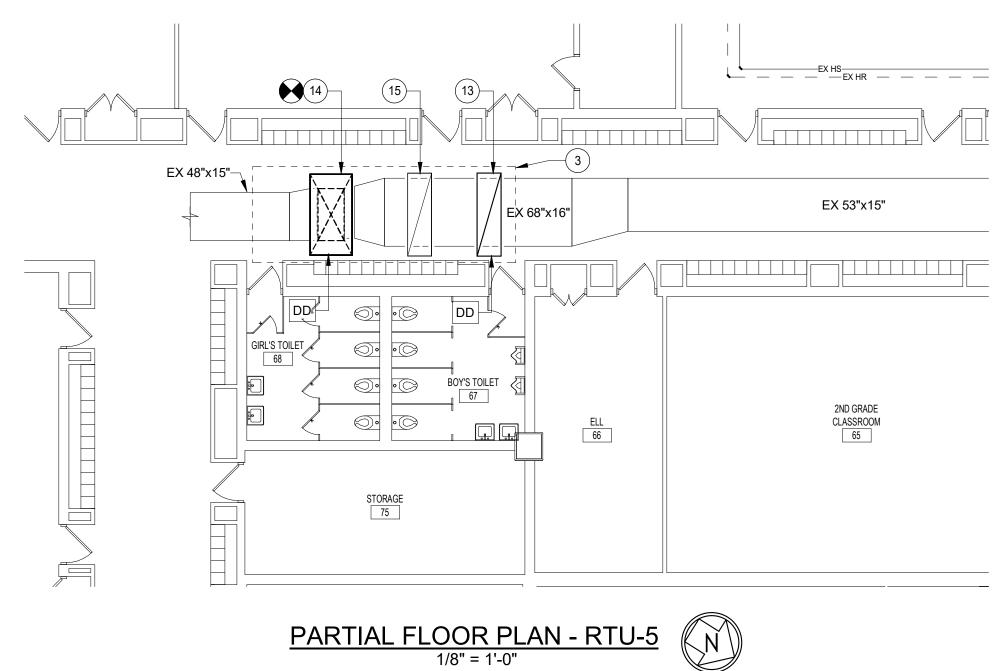
SCALE: 1/8" = 1'-0"













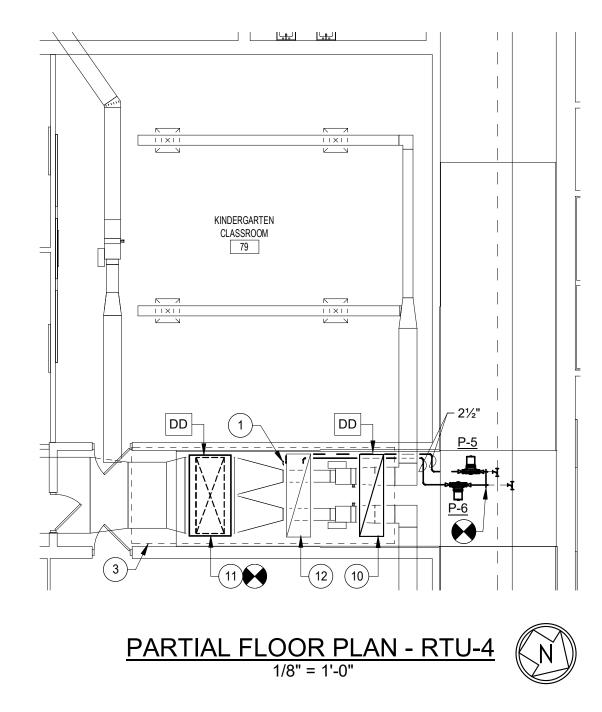
- 1. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.
- 2. IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.

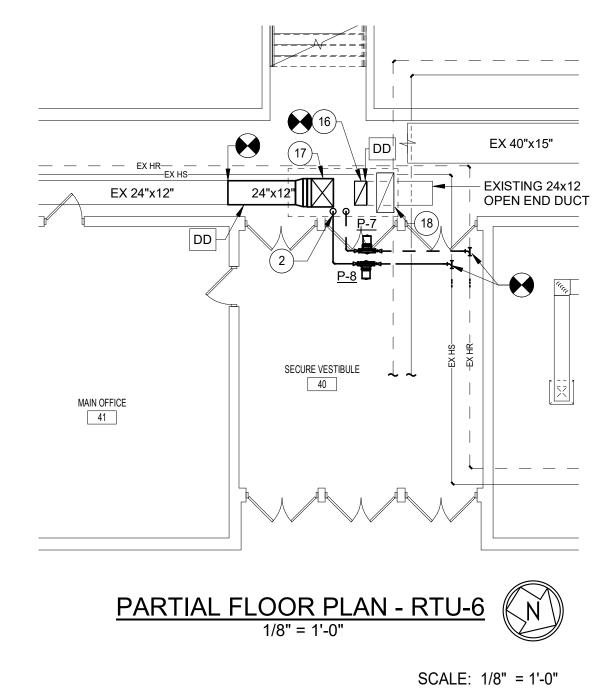
DRAWING NOTES:

- 2½" HS, HL UP TO <u>RTU-4</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION. (1)
- 2 1" HS, HL UP TO <u>RTU-6</u> ON ROOF. REFER TO DRAWING M2.3 FOR CONTINUATION.
- (3) ROOFTOP UNIT CURB OUTLINE. (4)
- 40x18 PLENUM R/A DUCT UP THROUGH ROOF TO PLENUM CURB OF <u>RTU-2</u>. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION. (5) 34x12 S/A DUCT DN TO EXISTING 34x12 S/A DUCT.
- CONNECT TO EXISTING DUCT. 34x12 S/A DUCT UP AND TRANSITION TO 28x22 DUCT IN VERTICAL (FULL SIZE CONNECTION OF UNIT) UP TO RTU-2. 6 40x17 R/A DUCT CONNECTION TO RTU-2 LOCATED IN PLENUM CURB (FULL SIZE CONNECTION OF
- UNIT AND SHOWN FOR REFERENCE). REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
- 59x26 PLENUM R/A DUCT UP THROUGH ROOF TO 7 PLENUM CURB OF RTU-3. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
- 8 78x36 S/A DUCT DN TO EXISTING 78x36 S/A DUCT. CONNECT TO EXISTING DUCT. 78x36 S/A DUCT UP AND TRANSITION TO 59x26 DUCT IN VERTICAL (FULL SIZE CONNECTION OF UNIT) UP TO RTU-3.
- (9) 59x26 R/A DUCT CONNECTION TO RTU-3 LOCATED IN PLENUM CURB (FULL SIZE CONNECTION OF UNIT AND SHOWN FOR REFERENCE). REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
- (10) 82x24 PLENUM R/A DUCT UP THROUGH ROOF TO PLENUM CURB OF RTU-4. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
- (11) 76x28 S/A DUCT DN TO EXISTING 76x28 S/A DUCT. CONNECT TO EXISTING DUCT. 76x28 S/A DUCT UP AND TRANSITION TO 81x42 DUCT IN VERTICAL (FULL SIZE CONNECTION OF UNIT) UP TO RTU-4.
- (12) 83x24 R/A DUCT CONNECTION TO RTU-4 LOCATED IN PLENUM CURB (FULL SIZE CONNECTION OF UNIT AND SHOWN FOR REFERENCE). REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.

13 82x24 PLENUM R/A DUCT UP THROUGH ROOF TO PLENUM CURB OF <u>RTU-5</u>. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.

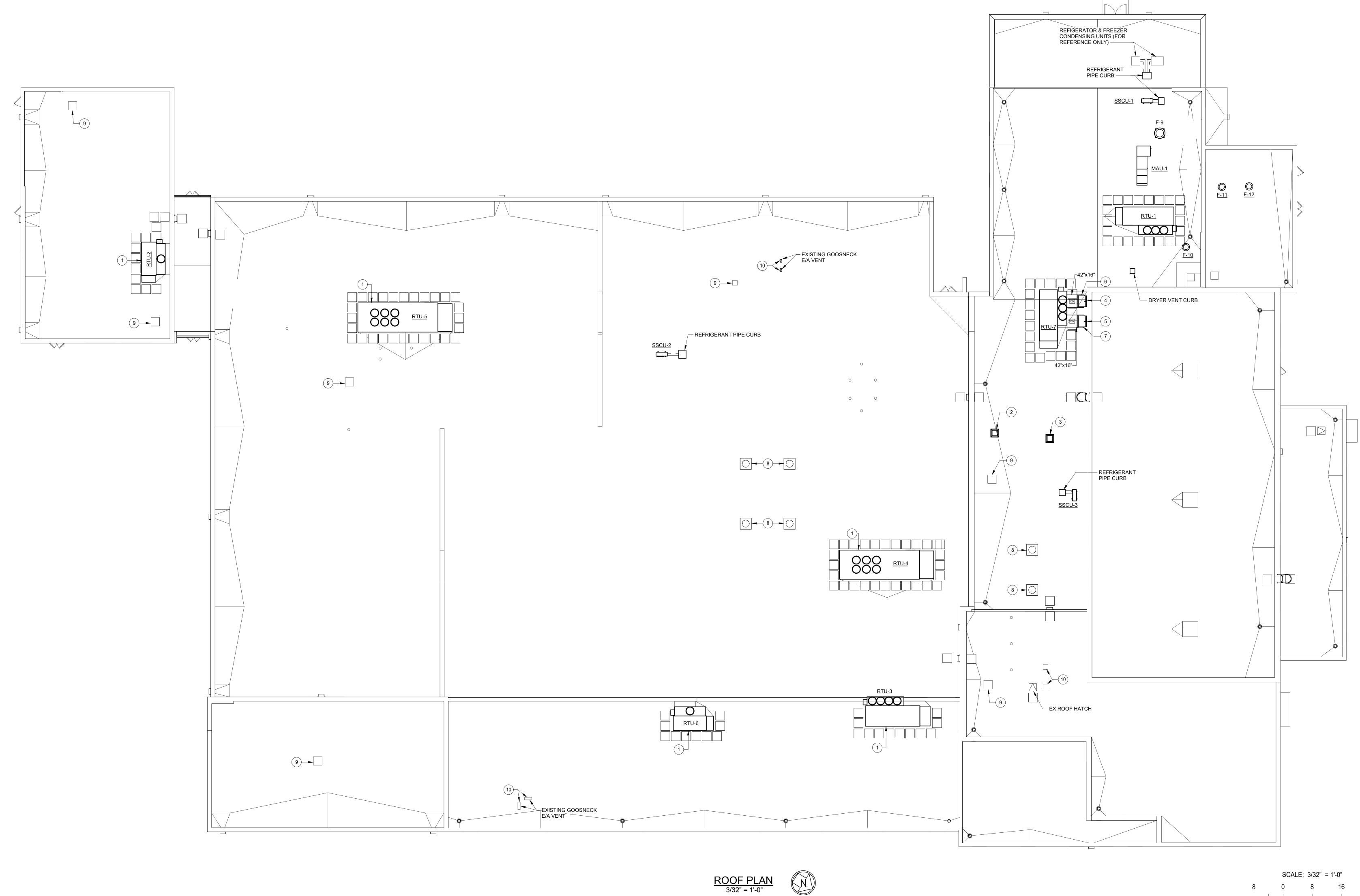
- (14) 52x26 S/A DUCT DN TO EXISTING 52x26 S/A DUCT. CONNECT TO EXISTING DUCT. 52x26 S/A DUCT UP AND TRANSITION TO 81x42 DUCT IN VERTICAL (FULL SIZE CONNECTION OF UNIT) UP TO RTU-5.
- (15) 83x24 R/A DUCT CONNECTION TO <u>RTU-5</u> LOCATED IN PLENUM CURB (FULL SIZE CONNECTION OF UNIT AND SHOWN FOR REFERENCE). REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
- (16) 24x12 PLENUM R/A DUCT DN. CONNECT TO EXISTING 24x12 R/A PLENUM DUCT. 24x12 PLENUM R/A DUCT UP THROUGH ROOF TO PLENUM CURB OF RTU-6. REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.
- (17) 28x22 S/A DUCT UP TO <u>RTU-6</u> (FULL SIZE CONNECTION OF UNIT).
- (18) 40x17 R/A DUCT CONNECTION TO <u>RTU-6</u> LOCATED IN PLENUM CURB (FULL SIZE CONNECTION OF UNIT AND SHOWN FOR REFERENCE). REFER TO MECHANICAL DETAILS FOR ADDITIONAL INFORMATION.





16





2.

(2)

GENERAL NOTES:

PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.

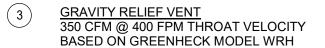
IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD

DRAWING NOTES:

CONDITION.

ROOF TOP UNIT TO BE INSTALLED ON PLENUM CURB. PLENUM CURB SHALL BE SIZED TO COVER OVER EXISTING ROOF DUCT PENETRATION. CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCT PENETRATION. EXTEND EXISTING R/A DUCT CONNECTION INTO CURB COMPLETELY SEAL PLENUM CURB.

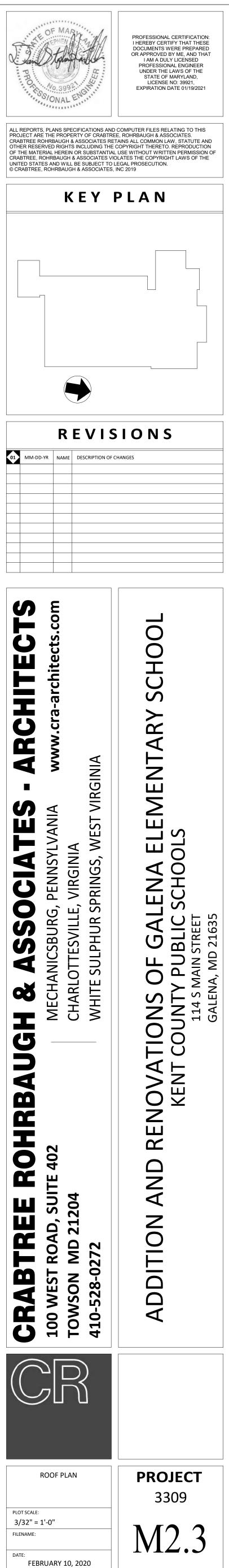
GRAVITY INTAKE VENT 350 CFM @ 400 FPM THROAT VELOCITY BASED ON GREENHECK MODEL WIH

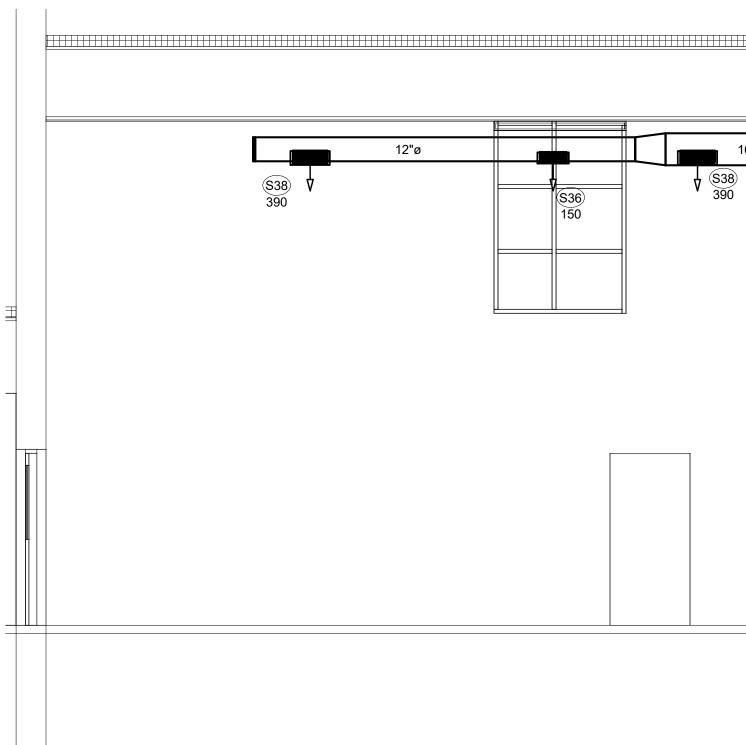


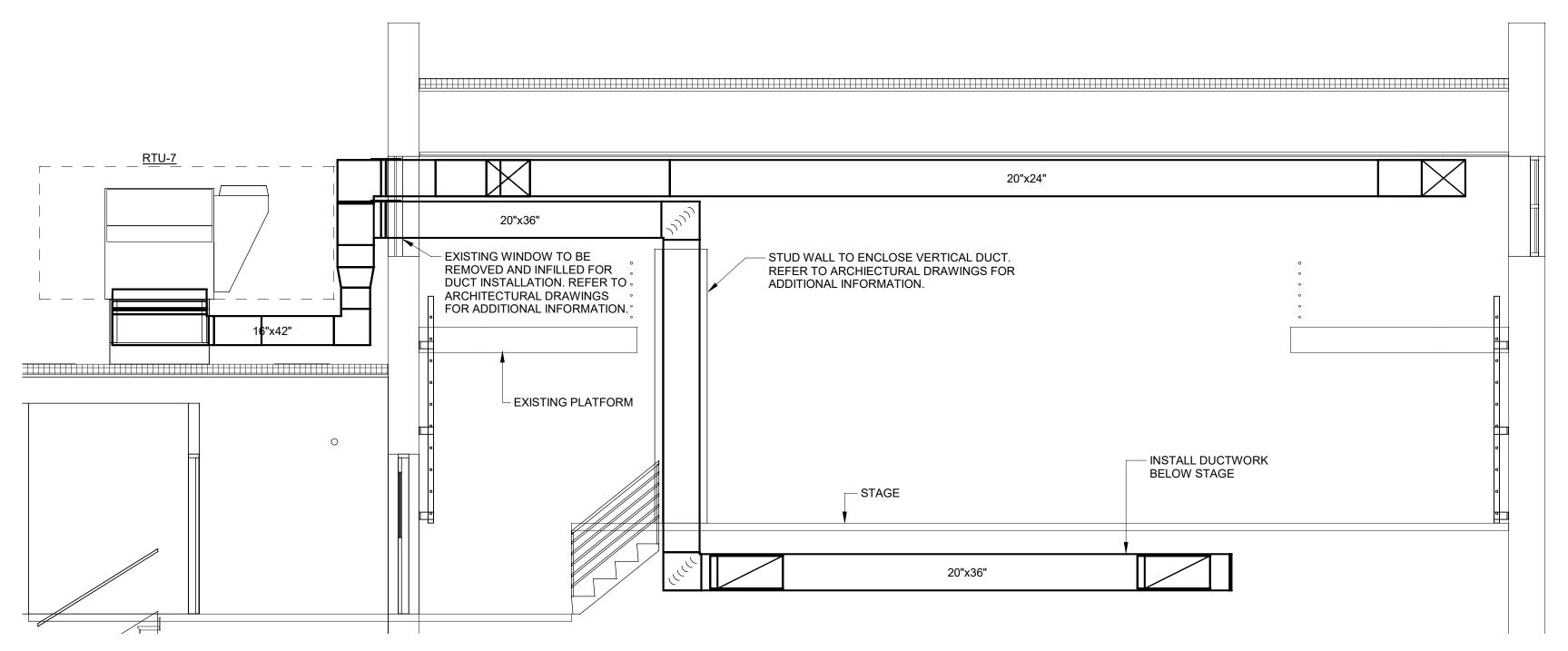
- 4 36x20 S/A DUCT THROUGH WALL. REFER TO DRAWING M2.1 FOR CONTINUATION.
- 5 36x20 R/A DUCT THROUGH WALL. REFER TO DRAWING
- M2.1 FOR CONTINUATION. 6 42x16 S/A DUCT UP TRANSITION TO 36x20 DUCT IN
- VERTICAL.
- 7 42x16 R/A DUCT UP TRANSITION TO 36x20 DUCT IN VERTICAL.
- 8 SOLATUBE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 9 EXTEND EXISTING CURB UP TO ACCOMMODATE ROOFING AND ADDITIONAL ROOF INSULATION AND RE-INSTALL EXISTING FAN. CURB SHALL BE 18" ABOVE FINISHED ROOF. EXTEND CONTROL WIRING, POWER, DUCTWORK ETC. TO RE-INSTALL FAN AT EXTENDED CURB HEIGHT.
- 10 EXTEND EXISTING CURB UP TO ACCOMMODATE ROOFING AND ADDITIONAL ROOF INSULATION AND RE-INSTALL EXISTING VENT TERMINAL.

16 8

32



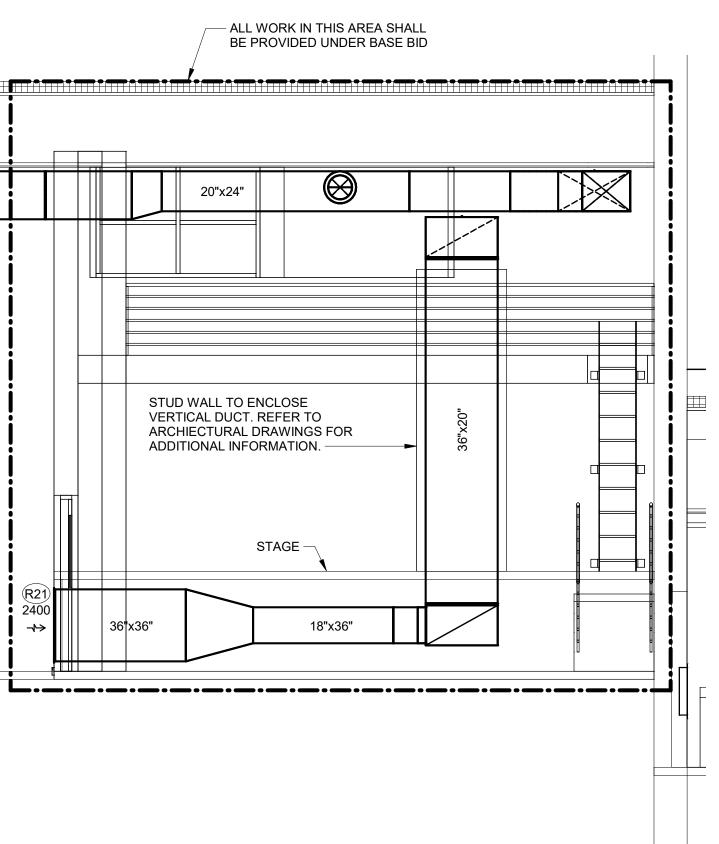




GYMNASIUM SECTION 1/4" = 1'-0"

16"ø		20"ø						24"ø
38) 90	 \$36 150		\$36 150	▼ <u>\$38</u> 390	\$36 150	¥ <u>\$38</u> 390	 (S36) 150	

<u>GYMNASIUM SECTION - ALT. GC-4</u> 1/4" = 1'-0"

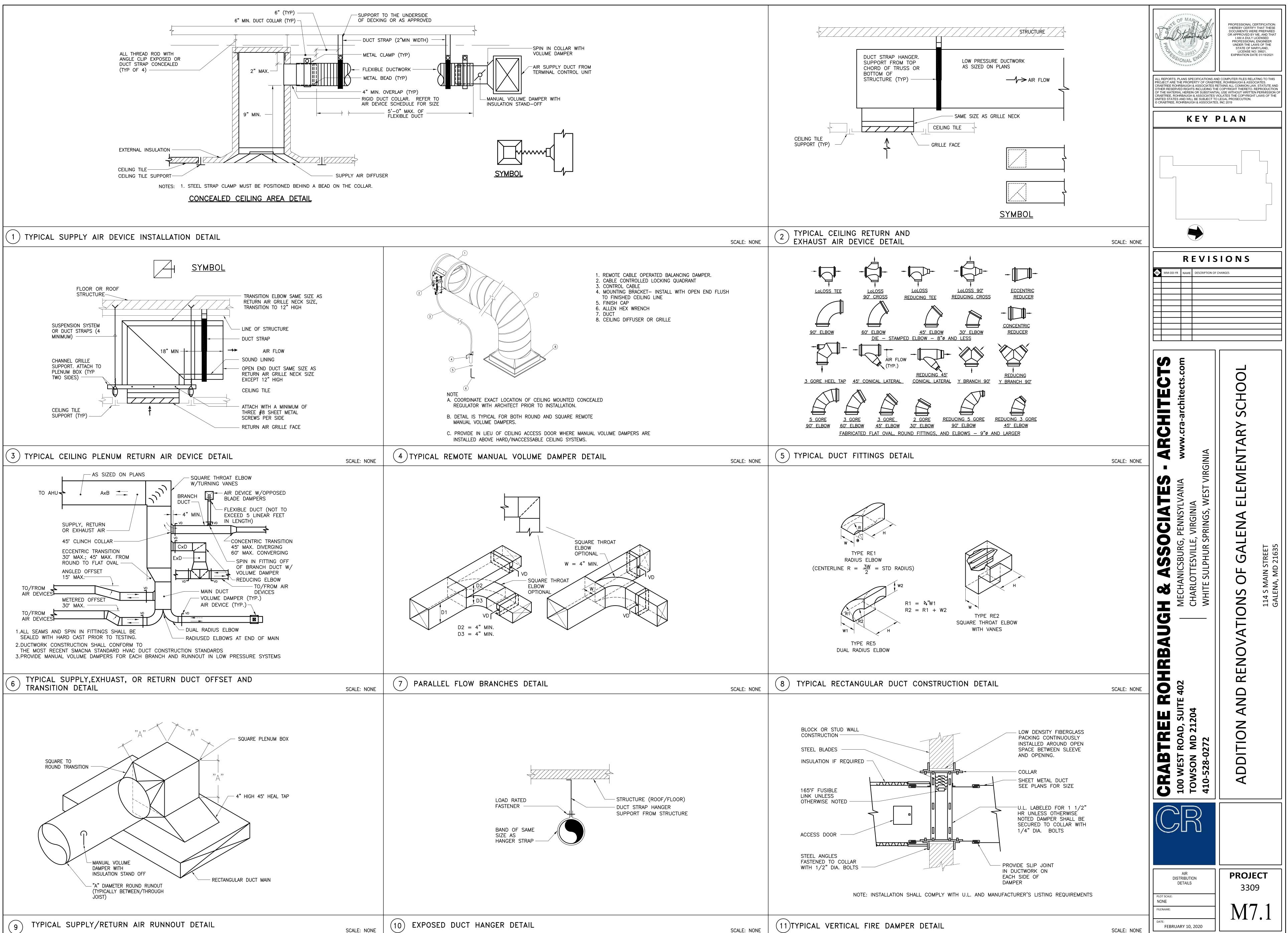


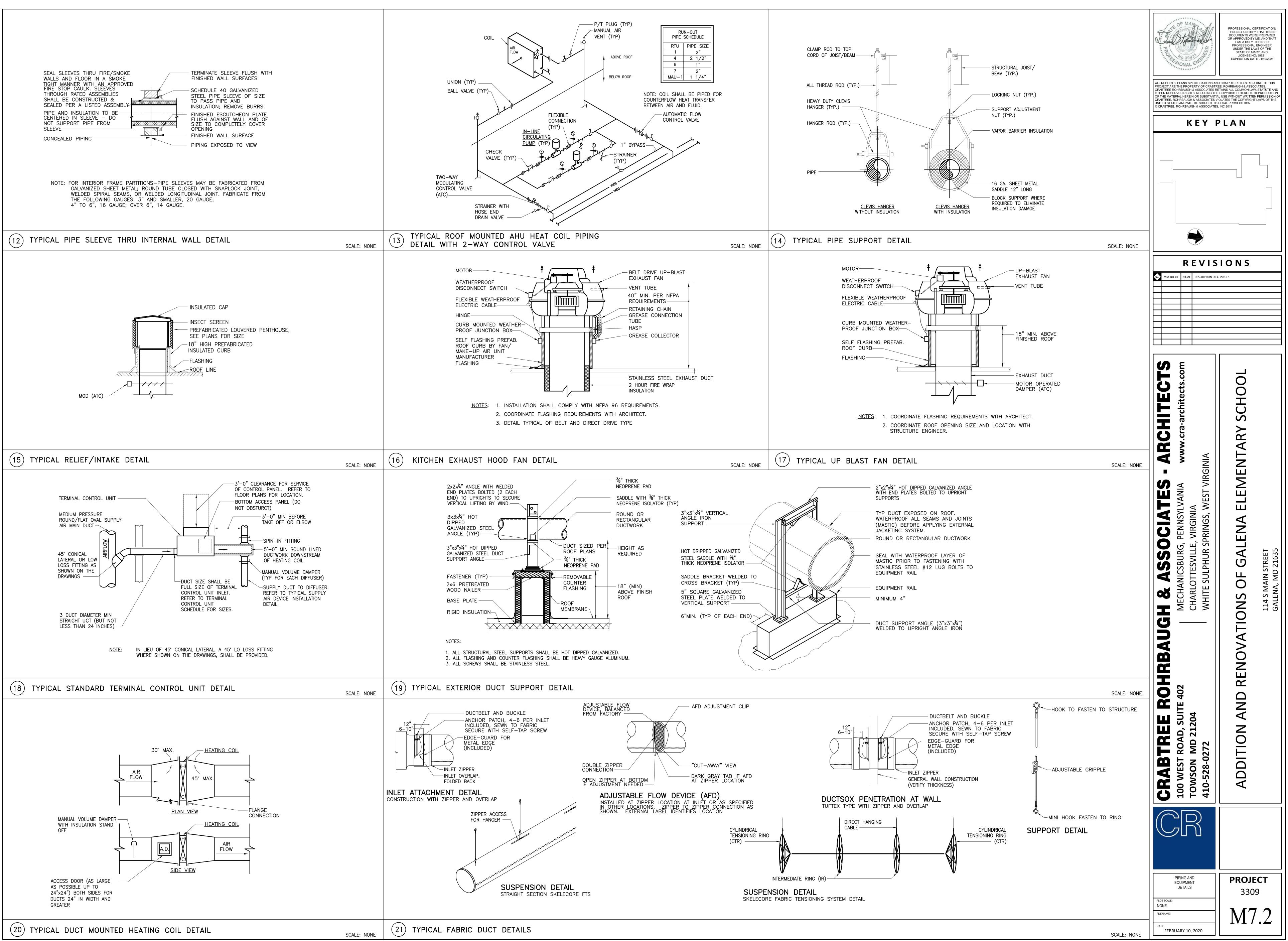


DATE: FEBRUARY 10, 2020 M3.1

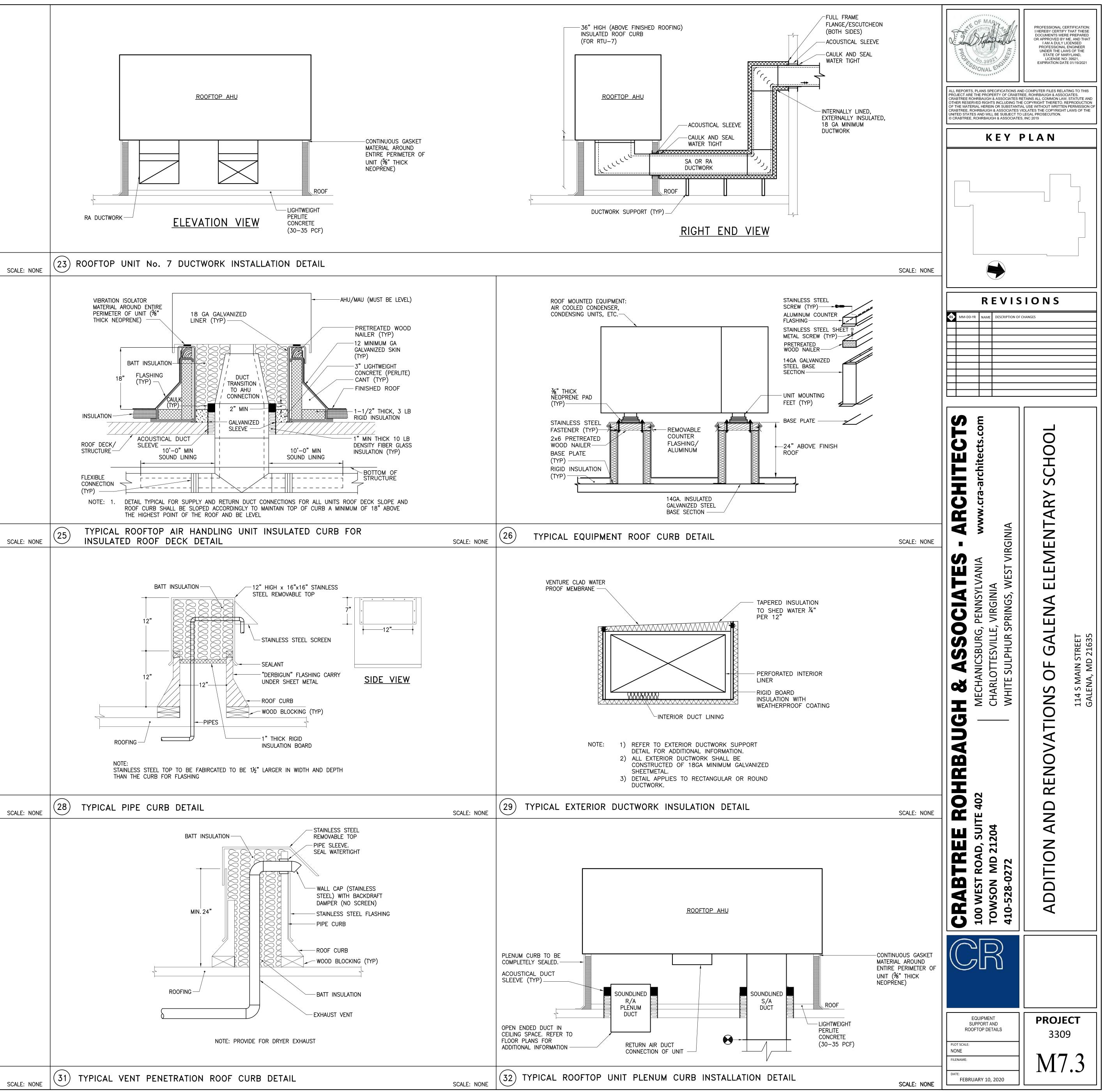
1/4" = 1'-0"

FILENAME:





22	NOT USED			SCAL
24	NOT USED			SCAL
27)	NOT USED			SCAL



COOLING/DEHUMIDIFICATION COIL MIXED AIR TEMPERATURE SENSOR HEAT WHEEL OUTSIDE AIR DAMPER (MOD) AIRFLOW MEASURING	 CONDENSING UNIT/SECTION WITH MODULATING COMPRESSOR COOLING COIL DISCHARGE AIR TEMPERATURE SENSOR (PRESURE/SUCTION TEMP SENSOR) MODULATING HOT GAS VALVE HOT GAS HEATING COIL
STATION (TYP) CA DPS F F F F F F F F F F F F F	SUPPLY AIR FAN VSD VARIABLE SPEED DRIVE V CURRENT SENSOR (TYP) HEAT COIL HCC FZ FZ FZ FZ FZ FZ FZ FZ FZ FZ
RETURN AIR TEMPERATURE SENSOR RETURN AIR DUCT SMOKE DETECTOR RA DD DD DD DD DD DD DD DD DD SUPPLY AIR TEMPERATURE SENSOR SUPPLY AIR DUCT SMOKE DETECTOR SUPPLY AIR DUCT SMOKE DETECTOR	
TYPICAL SINGLE ZONE VARIABLE AIR VOLUME ROOFTOP UNIT	W/ HEAT RECOVERY AND HW H
 1. GENERAL 1. A THERE HANDLING: SYSTEM SHALL BE INFERFACED WITH FACTORY MOUNTED DENERGY MANAGEMENT SYSTEM SHALL BE INFERFACED WITH THE WILDING DIRERGY MANAGEMENT SYSTEM (A SYSTEM SHALL BE INFERFACED AND STOPPED TROUGH A MANUAL SYSTEM ON-OFF-AUTOMATIC (H)WHEN INDEXED TO TOW, THE SYSTEM SHALL BE ENERGIZED AND OPERATE UNDER TO CONTROLLER AND ASYSTEM SHALL BE STARTED AND STOPPED TROUGH A MANUAL SYSTEM ON-OFF-AUTOMATIC (H)WHEN INDEXED TO TOW, THE SYSTEM SHALL BE ENERGIZE WHEN INDEXED TO TOW, THE SYSTEM SHALL BE ENERGIZE WHEN INDEXED TO TOW THE SYSTEM SHALL BE STARTED AND STOPPED TROUGH AND STOPPED THROUGH ITS BUILT IN CONTROLLER. 9. SUPPLY FAN SHALL BE LOCALLY OR REMOTELY STARTED AND STOPPED THROUGH ITS MURLENCE TO TOW ON ONE BY A SIGNAL FROM THE EMS. 1. RELIEF FAN AND HEAT WHEEL SHALL BE INTERLOCKED TO OPERATE WHEN THE SUPPLY FAN OPERATES BE OFF WHEN THE SUPPLY FAN IS OFF. 1. WHEN THE UNIT SUPPLY FAN IS OFF. 1. SUPPLY FAN SIGNAL FROM THE EMS. 1. SUPPLY FAN SIGNAL BE DE-ENERGIZED, WITH MOUTSID EAR DAMPER SHALL CLOSE AND RETURN AND DE-PERGIZE WHEN THE SUPPLY FAN OPERATES BE OFF. WHEN THE SUPPLY FAN IS OFF. 1. SUPPLY FAN, RELIEF FAN, AND COMSTON OUT AND HAT WHELL AN RELIF FAN SHALL BE OFF. 2. SUPPLY FAN, RELIEF FAN, AND, COMENSING UNT AND HAT WHELL AND FLUF FAN SHALL BE OFF. 3. SUPPLY FAN IS OFF. 3. SUPPLY FAN IS OFF. THE HAT WHEL AND RELIF FAN SHALL BE OFF. 5. SUPPLY FAN IS OFF. THE HEAT WHEL AND THE FAN SHALL BE OFF. 5. SUPPLY FAN IS OFF. 5. SUPPLY FAN IS OFF. THE HAT WHELL SHALL DE DE-ENERGIZED. 6. SUPPLY FAN IS OFF. THE HEAT WHELS SHALL DE DE-ENERGIZED TO NOT THE CASE OFF. 6. SUPPLY FAN IS OFF. THE HEAT WHEL SHALL DE DE-ENERGIZED. 7. WHEN THE AND AND OWN THE INCLUSE SHALL AND AND THE SUPPLY THE AND DISCHARCE AND SSOCATED FULLY. 7. WHEN THE AN HADDING UNTI IS OFF. THE HAT WHELS SHALL AND AND WHEN HEAT WHELS SHAL	MS). THE LING 1. THE UNIT SHALL BE PROVI MODULATE THE OUTSIDE AIR ENTHALPY IS SWITCH. OUT WHEN THE UNIT IS OT COOLING IS COMMANDED T ENCE. COOLING IS COMMANDED T STION 2. AN ECONOMIZER LOW LIMIT SE TEMPERATURE FALLS BELO M SWITCH 2. AN ECONOMIZER WILL MO POINT. DURING THIS MODE AIR DAMPER BELOW THE E TEMPERATURE SET POINT. C. HEATING: RGIZED; 1. SPACE TEMPERATURE SENS (ADJUSTABLE THROUGH SO 2. WHEN THE MIXED AIR TEMP PROTECTION PUMP SHALL COIL PUMP SHALL BE DE- LEAD/LAG CONTROL OF HE SCHEDULING (I.E. DAILY, W R H. HEAT RECOVERY: THE EMS. 2. THE ROTARY AIR-TO-AIR H HEAT WHEEL CONTROL OF HE SCHEDULING (I.E. DAILY, W R H. HEAT RECOVERY: THE EMS. 2. THE ROTARY AIR-TO-AIR H HEAT WHEEL SHALL RUN A (ADJ-ECONOMIZER OPERATI AIR DE HEAT WHEEL CONTROL SCH DWN SYSTEM MINUTES (ADJUSTABLE) TO MINIMUM AR DAMPER AND RETURN RELIEF I. THE MINIMUM OUTSIDE AIR RATE. THE SET OPERATURE SENSOR. T PREVENT FROSTING. 2. THE HEAT WHEEL ACTS AS OCCUPIED MODE, THE SUP HEATING OF COOLING, THE HERE IS NOT A CALL FOT OPERATION, THE HEAT WHEEL CATS AS OCCUPIED MODE, THE SUP HEATING OF COOLING, THE HERE IS NOT A CALL FOT OPERATION, THE HEAT WHEEL CATS AS OCCUPIED MODE, THE SUP HEATING OF COOLING, THE HERE IS NOT A CALL FOT OPERATION, THE HEAT WHEEL CALL FUR DI RUN STATUS IS CONFIRMED OPERATION, THE HEAT WHEEL CALLE ON NON SCHEDULED MODE, THE SUP HEATING OF COOLING, THE HERE IS NOT A CALL FOT OF IF THE RELIEF I. THE MINIMUM OUTSIDE AIR (ITH SET 1. THE MINIMUM OUTSIDE AIR MINUTES (ADJUSTABLE) TO MINIMUM AMER AMPER VALVE DOWN J. FAN SPEED CONTROL: 1. SUPPLY AIR FAN SHALL BE THE URPERATURE SETPOINT OF I. SUPPLY AIR FAN SHALL BE THE SUPPLY FAN SPEED CONTROL: 1. SUPPLY AIR FAN SHALL BE THE RELIEF AIR FA
 C. COOLING 1. COOLING IS ENABLED WHEN THE SPACE AIR TEMPERATURE IS ABOVE THE COOLING SET POINT OF TALL (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE) AND OUTSIDE AIR TEMPERATURE IS ABOVE THE COOLING LOCKOUT SET POINT OF 55'F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES A REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 76'F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OF SHALL PREVENT EACH STAGE OF MECHANICAL COOL FROM ENABLING AND DISABLING AT THE SAME TIME. IF THERE ARE MULTIPLE STAGES OF MECHANIC COOLING AVAILABLE (I.E. MULTIPLE COMPRESSORS) EACH STAGE SHALL SEQUENTIALLY ENABLE BASE TIME DELAY OF 180 SECONDS (ADJ) AND DISABLE BASED ON A MINIMUM DELAY OFF OF 180 SECC (ADJ). PROVIDE A 15 MINUTE (ADJ) ANTI-SHORT CYCLE TIME DELAY BETWEEN COMPRESSOR CYCLE? D. REFRIGERATION LOW LIMIT CONTROL: 1. IF THE EVAPORATIVE LEAVING COIL FACE TEMPERATURE FALLS BELOW THE A LOW LIMIT SETPOINT OF (ADJUSTABLE), THE MECHANICAL COOLING WILL REVERT FROM TEMPERATURE SET POINT. 2. IF THE EVAPORATIVE LEAVING COIL FACE TEMPERATURE FALLS BELOW 34'F (ADJUSTABLE), MECHANICAL COOLING WILL BE COMMANDED TO RUN UNTIL THE EVAPOR LEAVING COIL FACE TEMPERATURE FALLS BELOW 34'F (ADJUSTABLE), MECHANICAL COOLING WILL BE COMMANDED TO RUN UNTIL THE EVAPOR LEAVING COIL FACE TEMPERATURE FALLS BELOW 34'F (ADJUSTABLE), MECHANICAL COOLING WILL BE COMMANDED TO RUN UNTIL THE EVAPOR LEAVING COIL FACE TEMPERATURE FALLS BELOW 34'F (ADJUSTABLE), MECHANICAL COOLING WILL BE COMMANDED TO RUN UNTIL THE EVAPOR LEAVING COIL FACE TEMPERATURE FALLS BELOW 34'F (ADJUSTABLE), MECHANICAL COOLING WILL BE DISABLED. MECHANICAL COOLING WILL BE COMMANDED TO RUN UNTIL THE EVAPOR LEAVING COIL FACE TEMPERATURE FALLS BELOW 34'F (ADJUSTABLE), MECHANICAL COOLING WILL BE DISABLED. AND THE COMPRESSOR MINIMUM TIME HAS BEEN ACHIEVED. E. DEHUMIDIFICATION CONTROL: 	THROUGH DIFFERENTIAL PR76°F E AS3. UNOCCUPIED CYCLEAS AS LE S DLING ICAL ED ON A ONDS S.A. GENERAL:1.THE CONDENSING UNIT SHA ASSOCIATED RELIEF FAN, A RELIEF AIR DAMPER SHALL (ADJUSTABLE) IN THE HEAT IS.5.B. HEATING:7.HEATING SETBACK TEMPERA UNIT HEATER. WHEN THE S (ADJUSTABLE), THE SUPPLY WHEN SPACE TEMPERATURE DE-ENERGIZE AFTER THE T C. MECHANICAL COOLING:
 DEHUMIDIFICATION IS ENABLED WHEN THE SUPPLY FAN IS OPERATING, SPACE TEMPERATURE IS AT COOLING SET POINT AND THE OUTSIDE AIR TEMPERATURE IS ABOVE THE COMPRESSOR LOCKOUT POSPACE RELATIVE HUMIDITY REACHES ITS SETPOINT 60%RH SPACE (ADJUSTABLE THROUGH SOFTWARE) DEHUMIDIFICATION MODE SHALL BE DISABLED IF EITHER THE SPACE RELATIVE HUMIDITY FALLS 5% (ADJUSTABLE) BELOW THE SPACE DEHUMIDIFICATION SETPOINT OR THE SPACE TEMPERATURE FALLS (ADJUSTABLE) BELOW THE OCCUPIED SPACE COOLING SETPOINT TEMPERATURE. WHEN THE UNIT IS IN DEHUMIDIFICATION MODE, THE COOLING SHALL REVERT FROM MAINTAINING SP/TEMPERATURE COOLING SET POINT TO MAINTAINING A CONSTANT LEAVING COIL FACE TEMPERATURE / DETERMINED BY A REFRIGERATION SUCTION PRESSURE SENSOR LOCATED ON THE FIRST STAGE OF COMPLEXATURE OF 74°F (ADJUSTABLE THROUGH SOFTWARE) DURING DEHUMIDIFICATION MODE AND TH STAGE OF MECHANICAL COOLING IS COMMANDED TO RUN, THE REFRIGERATION MODULATING GAS HEAPEGIN TO MODULATE OPEN UNTIL THE SUPPLY AIR TEMPERATURE SET POINT (74°F ADJUSTABLE THROUGH SOFTWARE) IS SATISFIED. 	DR ABOVE 100% MECHANICAL COOLING DINT. SOFTWARE) BELOW THE SP MODE IS DISABLE. THE SUI MECHANICAL UNLOADING. TH BY A MANUAL SOFTWARE S ACE AS COOLING. DINT IE FIRST AT WILL

DDC	INPUT/OUT
RH SPACE RELATIVE HUMIDITY SENSOR (LOCATE ADJACENT TO SPACE TEMPERATURE SENSOR IN CAGE) IN CAGE) CO2 SPACE CARBON DIOXIDE SENSOR BY	BUILDING_SYSTEM: RTU-1: CAFETERIA RTU-7: GYM I ANALOG ANALOG ANALOG EKATINE EKAT
UNIT MANUFACTURER (LOCATE ADJACENT TO SPACE TEMPERATURE SENSOR IN CAGE) N OAT - OUTDOOR AIR TEMPERATURE SENSOR (GLOBAL) OAT - OUTDOOR AIR CARBON DIOXIDE SENSOR (GLOBAL) RH - OUTDOOR AIR RELATIVE HUMIDITY SENSOR (GLOBAL)	DESCRIPTION ROOM TEMPERATURE DUCT TEMPERATURE DESCURENT TEMPERATURE DESCURENT TEMPERATURE DUCT TE
CS TWO-WAY VALVE (ATC) TS OUTSIDE AIR PRESSURE SENSOR (AIR MONITOR INC. S.O.A.P.) DIFFERENTIAL PRESSURE CONTROLLER INDOOR AIR PRESSURE SENSOR (AIR MONITOR INC.	AHU RETURN AIR DUCT DETECTORS (TYP) SPACE SUPPLY AIR SUPPLY AIR OUTSIDE AIR (GLOBAL) INDOOR STATIC PRESSURE RELIEF AIR OUTSIDE AIR DAMPER RELIEF AIR DAMPER RELIEF AIR DAMPER RELIEF AIR DAMPER HEAT WHEEL
HW HEAT CONTROL DIAGRAM SCALE: NONE	TYPICAL SINGLE ZONE VARIABLE AIR VOLUME I

E PROVIDED WITH AN ENTHALPY ECONOMIZER CYCLE. THE ECONOMIZER CONTROL SHALL TSIDE AIR AND RETURN AIR DAMPER TO MAINTAIN SPACE TEMPERATURE WHENEVER ALPY IS LESS THAN RETURN AIR ENTHALPY. THE ECONOMIZER CYCLE SHALL BE LOCKED IT IS OPERATING IN THE DEHUMIDIFICATION SEQUENCE OF OPERATION, OR IF MECHANICAL NDED TO OPERATE.

OW LIMIT WILL PREVENT THE MIXED AIR TEMPERATURE FROM FALLING BELOW THE LIMIT SET POINT OF 45°F (ADJUSTABLE THROUGH SOFTWARE). IF THE MIXED AIR S BELOW THE ECONOMIZER LOW LIMIT SET POINT AND MECHANICAL COOLING IS DISABLED, WILL MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN THE ECONOMIZER LOW LIMIT SET S MODE OF OPERATION, THE ECONOMIZER HAS THE ABILITY TO MODULATE THE OUTSIDE V THE ECONOMIZER MINIMUM POSITION TO MAINTAIN THE ECONOMIZER LOW LIMIT POINT.

RE SENSOR SHALL MODULATE THE HEATING COIL CONTROL VALVE TO MAINTAIN 70°F DUGH SOFTWARE) SPACE TEMPERATURE.

AIR TEMPERATURE IS BELOW 38'F (ADJUSTABLE THROUGH SOFTWARE) THE LEAD FREEZE SHALL BE ENERGIZED TO RUN CONTINUOUSLY WHETHER THE SUPPLY FAN IS ON OR XED AIR TEMPERATURE IS ABOVE 40°F (ADJUSTABLE THROUGH SOFTWARE), THE HEATING BE DE-ENERGIZED. EACH SET OF HEATING COIL PUMPS SHALL BE PROVIDED WITH . SUCH THAT THE LEAD PUMP RUNS CONTINUOUSLY AS SPECIFIED ABOVE. IN THE EVENT FAILURE (AS SENSED BY CURRENT SENSOR), THE LAG PUMP SHALL AUTOMATICALLY SECOND TIME DELAY. PROVIDE THROUGH SOFTWARE TO AUTOMATICALLY ALTERNATE _ OF HEATING COIL PUMPS BASED ON PUMP RUN TIME. OR THROUGH TIME OF DAY DAILY. WEEKLY. BI-WEEKLY ETC).

TO-AIR HEAT RECOVERY WHEEL SHALL OPERATE WHEN OUTSIDE AIR IS REQUIRED. THE ROLS SHALL INCLUDE FROST CONTROL, CLEANING CYCLE, AND ROTATIONAL DETECTOR. THE RUN AT FULL SPEED EXCEPT AT OUTSIDE AIR TEMPERATURES OF 50°F-65°F OPERATION) AND WHEN FROST OF THE WHEEL MAY OCCUR AS DETERMINED BY RELIEF INSOR. THE ENERGY WHEEL VARIABLE SPEED DRIVE SHALL MODULATE WHEEL SPEED TO

ACTS AS THE FIRST STAGE OF HEATING OR COOLING, WHEN THE UNIT IS PLACED IN 'HE SUPPLY FAN RUN STATUS IS CONFIRMED AND THERE IS A CALL FOR MECHANICAL NG, THE HEAT WHEEL IS COMMANDED TO RUN. IF THE UNIT IS IN ECONOMIZER MODE OR ALL FOR EITHER MECHANICAL HEATING OR COOLING THE HEAT WHEEL IS COMMANDED AIR DEWPOINT TEMPERATURE FALLS BELOW ITS TEMPERATURE SETPOINT AND RELIEF FAN NFIRMED, THE HEAT WHEEL WILL OPERATE IN DEFROST MODE. DURING THIS MODE OF IEAT WHEEL WILL CYCLE ON FOR 30 MINUTES (ADJUSTABLE) AND THEN CYCLE OFF FOR 2 3LE) TO PREVENT ANY ICE BUILDUP. WHEN THE UNIT IS IN DEFROST MODE, THE OUTSIDE RETURN AIR DAMPER WILL MODULATE TO MAINTAIN A HEAT WHEEL SUPPLY AIR POINT OF 45%F (ADJUSTABLE)

SIDE AIR FLOW RATE SHALL BE 20% OF THE SCHEDULED MINIMUM OUTSIDE AIR FLOW CARBON DIOXIDE SENSOR SHALL MODULATE OUTSIDE AIR DAMPER OPEN TO THE JM OUTSIDE AIR FLOW RATE AS REQUIRED TO MAINTAIN A SPACE CO2 LEVEL THAT IS THE DI LOWING: PM (ADJUSTABLE) DIFFERENCE BETWEEN THE OUTSIDE AIR CO2 LEVEL AND THE SPACE CO2 CO2 LEVEL A SPACE CO2 LEVEL OF 1500 PPM (ADJUSTABLE).

MEASURING STATION (ATTACHED TO RTU HOOD) SHALL MEASURE OUTSIDE AIR FLOW RATE IUM SETPOINTS.

HALL BE CONTROLLED TO MAINTAIN SPACE TEMPERATURE THROUGH ITS BUILT CONTROLS. SHALL MODULATE BETWEEN 50% (ADJUSTABLE THROUGH SOFTWARE) TO 100% OF THE

AN SHALL VARY ITS FAN SPEED TO MAINTAIN A SLIGHTLY POSITIVE BUILDING PRESSURE ITIAL PRESSURE CONTROLLER.

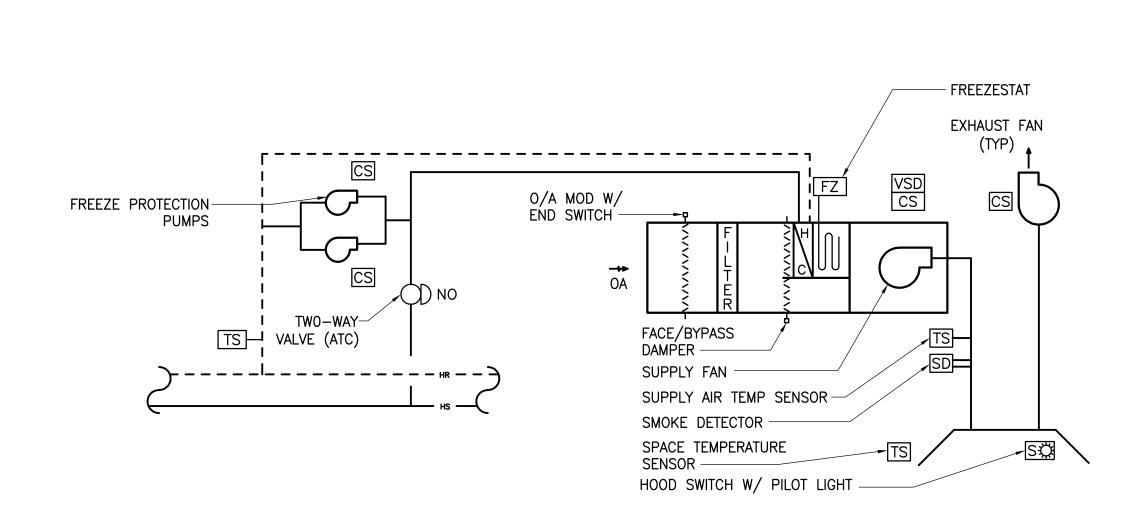
UNIT SHALL DE-ENERGIZE AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN. FAN, AND HEAT RECOVERY WHEEL SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER AND R SHALL BE CLOSED, THE HEATING WATER COIL CONTROL VALVE SHALL BE CLOSED AND ER SHALL BE OPEN. SPACE TEMPERATURE SENSOR SHALL BE RESET TO 55'F HE HEATING MODE.

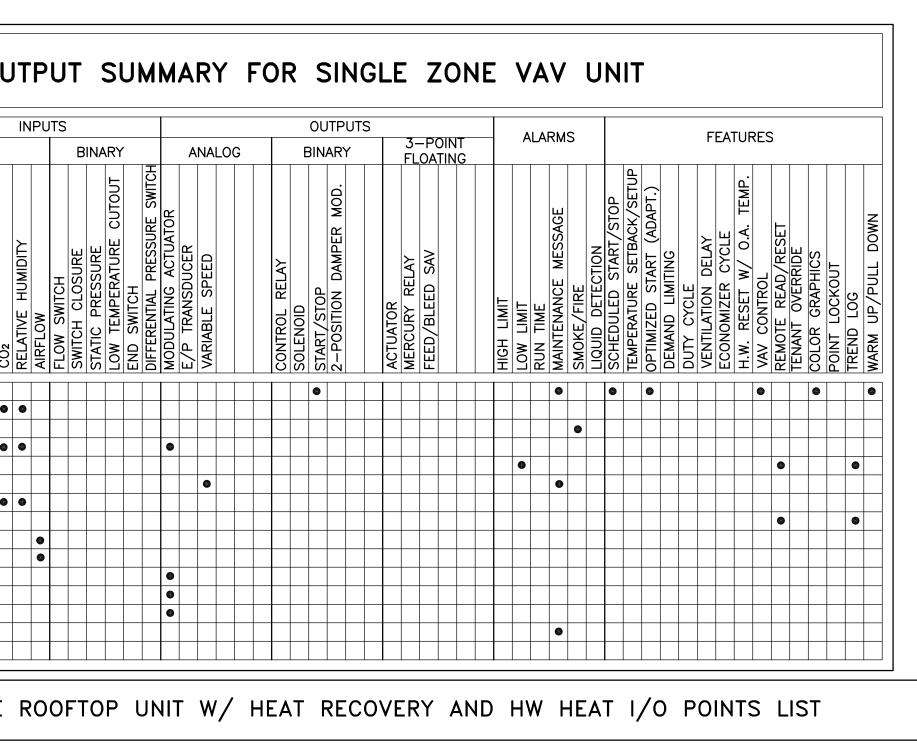
TEMPERATURE SHALL BE MAINTAINED BY CYCLING THE SUPPLY FAN AS RECIRCULATING IN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED SETPOINT OF 55'F SUPPLY FAN SHALL START AND FULL HEATING SHALL BE ENABLED. HEATING IS DISABLED PERATURE REACHES 2°F ABOVE SPACE TEMPERATURE SETPOINT. THE SUPPLY FAN SHALL ER THE TIME DELAY TIMES OUT.

ING IS DISABLED. IF THE UNIT IS MONITORING SPACE TEMPERATURE AND THE SPACE S ABOVE THE UNOCCUPIED COOLING TEMPERATURE SETPOINT OF 85°F (ADJUSTABLE E), THE UNIT COOLING NIGHT CYCLE MODE IS ENABLED. ONCE THE SUPPLY FAN RUN NED, THE UNIT OPERATES WITH THE ECONOMIZER DISABLED AND SEQUENTIALLY ENABLES COOLING CAPACITY. ONCE THE SPACE TEMPERATURE FALLS 2°F (ADJUSTABLE THROUGH THE SPACE UNOCCUPIED COOLING TEMPERATURE SETPOINT. THE COOLING NIGHT CYCLE THE SUPPLY FAN IS DISABLED AFTER 120 SECONDS TIME DELAY TO ALLOW FOR NDING. THE UNOCCUPIED COOLING SEQUENCE OF OPERATION SHALL BE ENABLED/DISABLED TWARE SELECTOR SWITCH THROUGH THE EMS.

4. KITCHEN HOOD SYSTEM CONTROL (RTU-1 ONLY)

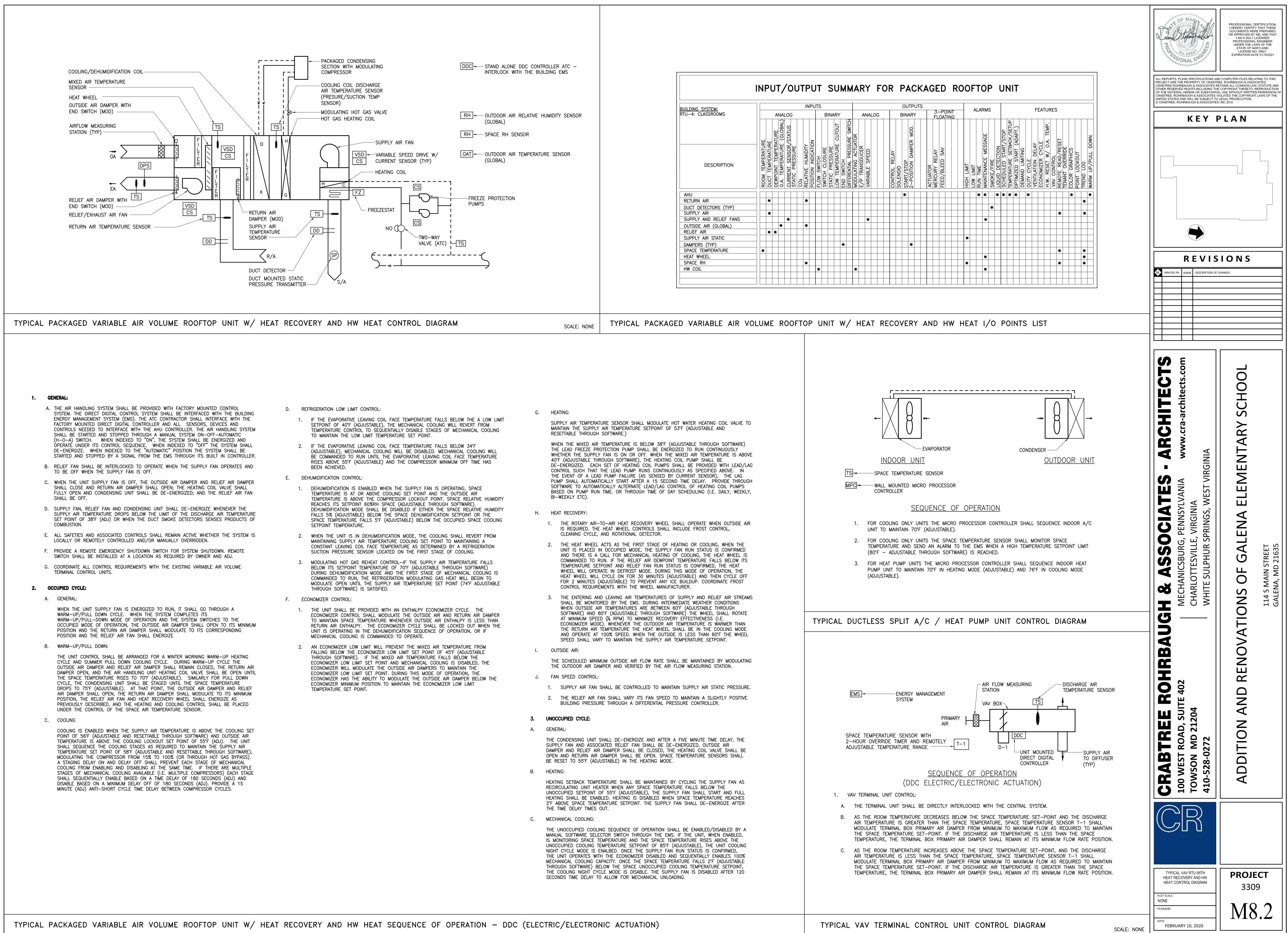
- A. COORDINATE THE CONTROLS OF ALL KITCHEN HOOD EXHAUST FAN(S), AND MAKE-UP AIR HANDLING UNIT WITH THE KITCHEN CONTRACTOR AND THE ELECTRICAL CONTRACTOR FOR A FULLY TURN-KEY SYSTEM THAT COMPLIES WITH ALL NFPA REQUIREMENTS.
- B. EACH KITCHEN HOOD SHALL HAVE A SYSTEM ON-OFF SWITCH WITH PILOT LIGHT MOUNTED ON THE HOOD. THE SWITCH SHALL ONLY BE ACTIVE WHEN THE AIR HANDLING SYSTEM IS IN THE OCCUPIED MODE OF OPERATION.
- C. WHEN THE KITCHEN HOOD SWITCH IS INDEXED TO THE OFF POSITION, THE MAKE-UP AIR HANDLING UNIT IS OFF, ITS ASSOCIATED OUTSIDE AIR DAMPER IS CLOSED AND THE ASSOCIATED HOOD EXHAUST FAN IS OFF.
- D. WHEN THE KITCHEN HOOD SYSTEM IS INDEXED TO ON THE EXHAUST FAN SHALL ENERGIZE, THE DEDICATED MAKE-UP AIR HANDLING UNIT OUTSIDE AIR DAMPER SHALL OPEN AND THROUGH DAMPER END SWITCH ENERGIZE ITS SUPPLY AIR FAN. THE VOLUMETRIC DIFFERENCE BETWEEN THE AHU OUTDOOR AIR AND RELIEF AIR SHALL INCREASED BY MEASURING THE SPACE-TO-OUTDOOR PRESSURE AND MAINTAINING A SLIGHT POSITIVE SPACE PRESSURE. WHEN THE KITCHEN HOOD SYSTEM IS ENERGIZED AND THE SUPPLY AIR TEMPERATURE FROM THE MAKE-UP AIR HANDLING UNIT IS LESS THEN 60°F (ADJUSTABLE THROUGH SOFTWARE), THE MAKE-UP AIR HANDLING UNIT HEATING COIL VALVE SHALL BE FULLY OPEN AND THE FACE/BYPASS DAMPER SHALL MODULATE TO MAINTAIN 60 F (ADJUSTABLE THROUGH SOFTWARE) SUPPLY AIR TEMPERATURE. SUPPLY AIR TEMPERATURE SHALL BE RE-SETTABLE THROUGH SPACE TEMPERATURE SENSOR EACH KITCHEN HOOD SYSTEM SHALL BE INDEPENDENTLY CONTROLLED.
- E. THE MAKE-UP AIR HANDLING UNIT SHALL BE PROVIDED WITH A SUPPLY AIR SMOKE DETECTOR WHICH SHALL DEENERGIZE THE UNIT WHEN PRODUCTS OF COMBUSTION ARE SENSED. EACH KITCHEN HOOD SYSTEM SHALL INDEPENDENTLY CONTROLLED. THE DISCHARGE AIR TEMPERATURE SENSOR SHALL SEND AN ALARM TO EMS WHENEVER ITS LOW LIMIT TEMPERATURE SETPOINT (40°F – ADJUSTABLE THROUGH SOFTWARE) HAS BEEN REACHED.
- F. THE MAKE-UP AIR HANDLING UNIT SHALL BE PROVIDED WITH FREEZE PROTECTION PUMPS. WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 38°F (ADJUSTABLE THROUGH SOFTWARE) THE LEAD FREEZE PROTECTION PUMP SHALL BE ENERGIZED TO RUN CONTINUOUSLY WHETHER THE SUPPLY FAN IS ON OR OFF. WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F (ADJUSTABLE THROUGH SOFTWARE), THE HEATING COIL PUMP SHALL BE DE-ENERGIZED. EACH SET OF HEATING COIL PUMPS SHALL BE PROVIDED WITH LEAD/LAG CONTROL SUCH THAT THE LEAD PUMP RUNS CONTINUOUSLY AS SPECIFIED ABOVE. IN THE EVENT OF A LEAD PUMP FAILURE (AS SENSED BY CURRENT SENSOR), THE LAG PUMP SHALL AUTOMATICALLY START AFTER A 15 SECOND TIME DELAY. PROVIDE THROUGH SOFTWARE TO AUTOMATICALLY ALTERNATE LEAD/LAG CONTROL OF HEATING COIL PUMPS BASED ON PUMP RUN TIME. OR THROUGH TIME OF DAY SCHEDULING (I.E. DAILY, WEEKLY, BI-WEEKLY ETC).

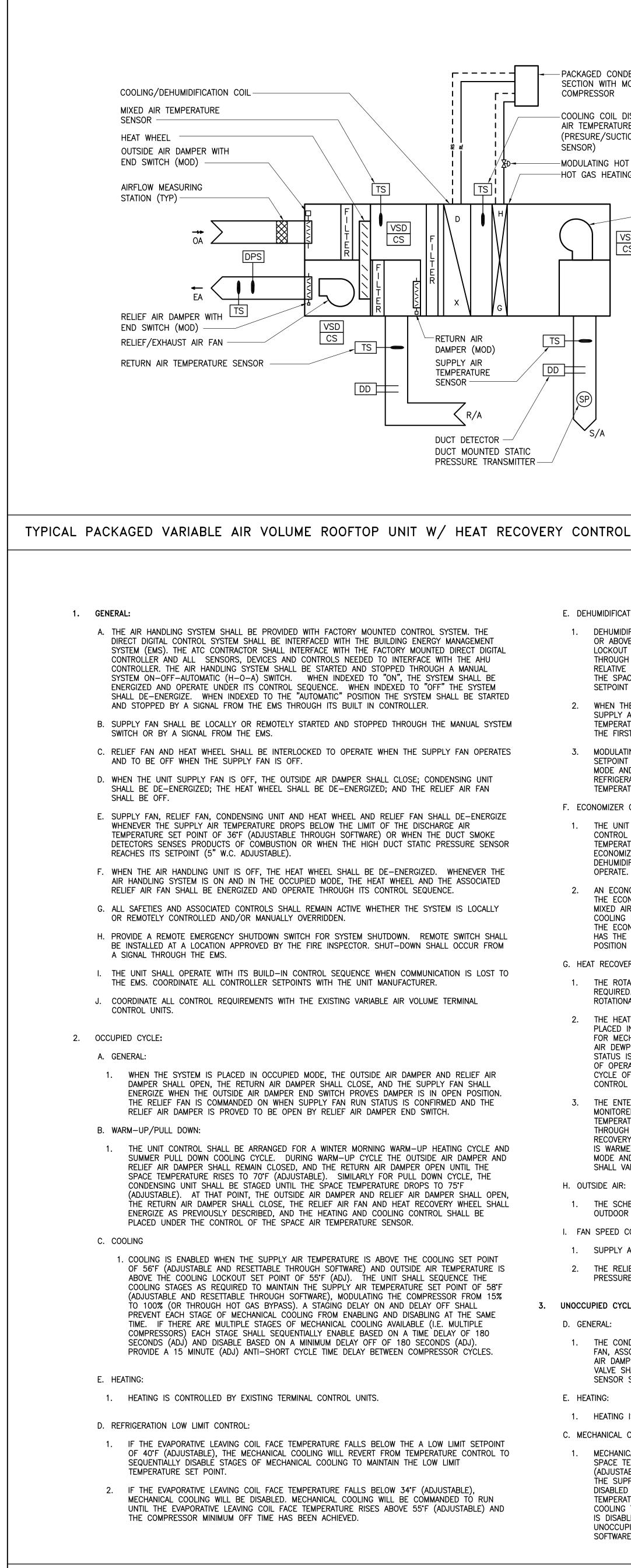




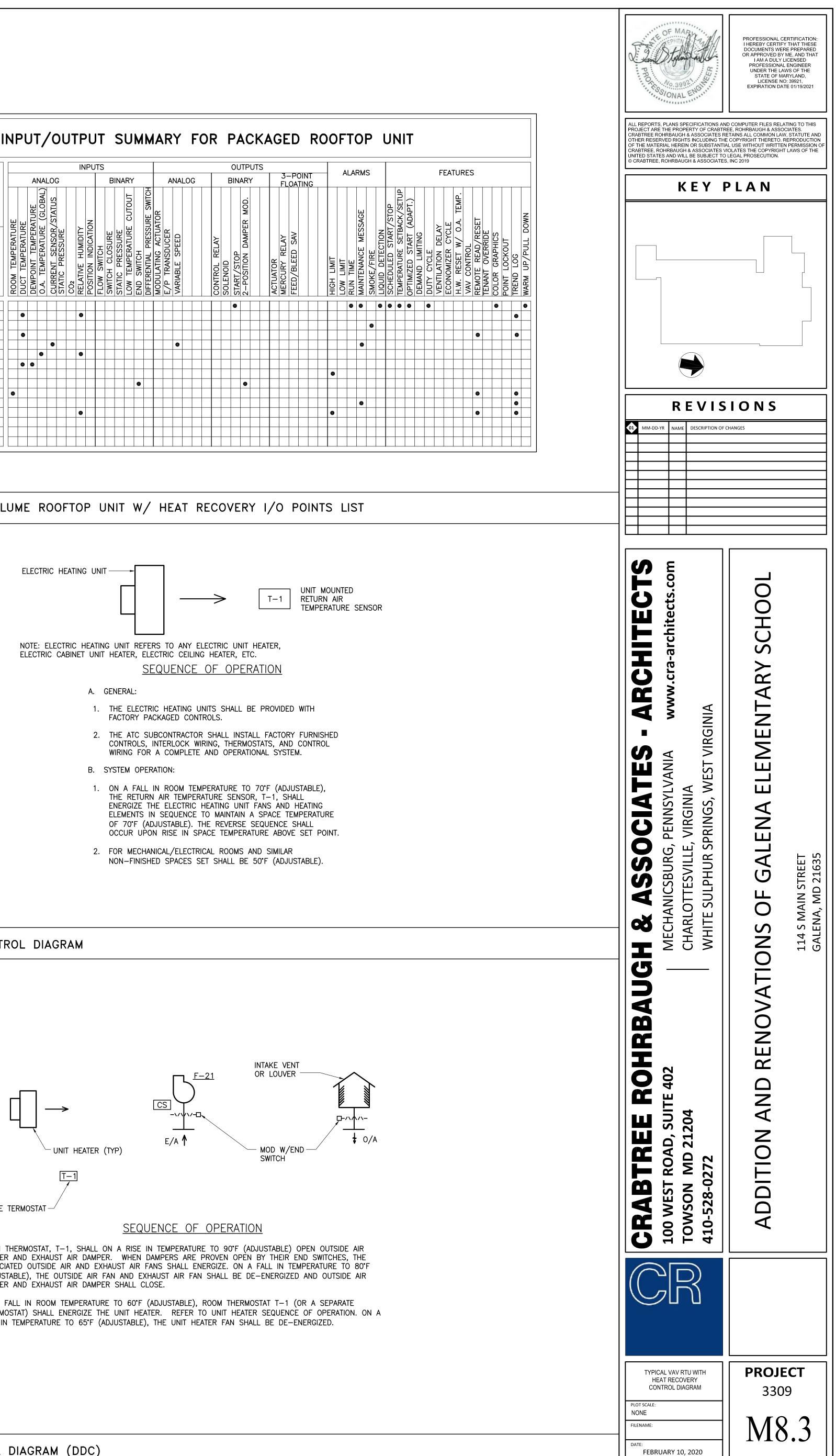
	N HOOD SCHEDULE
MAU-1	F-9







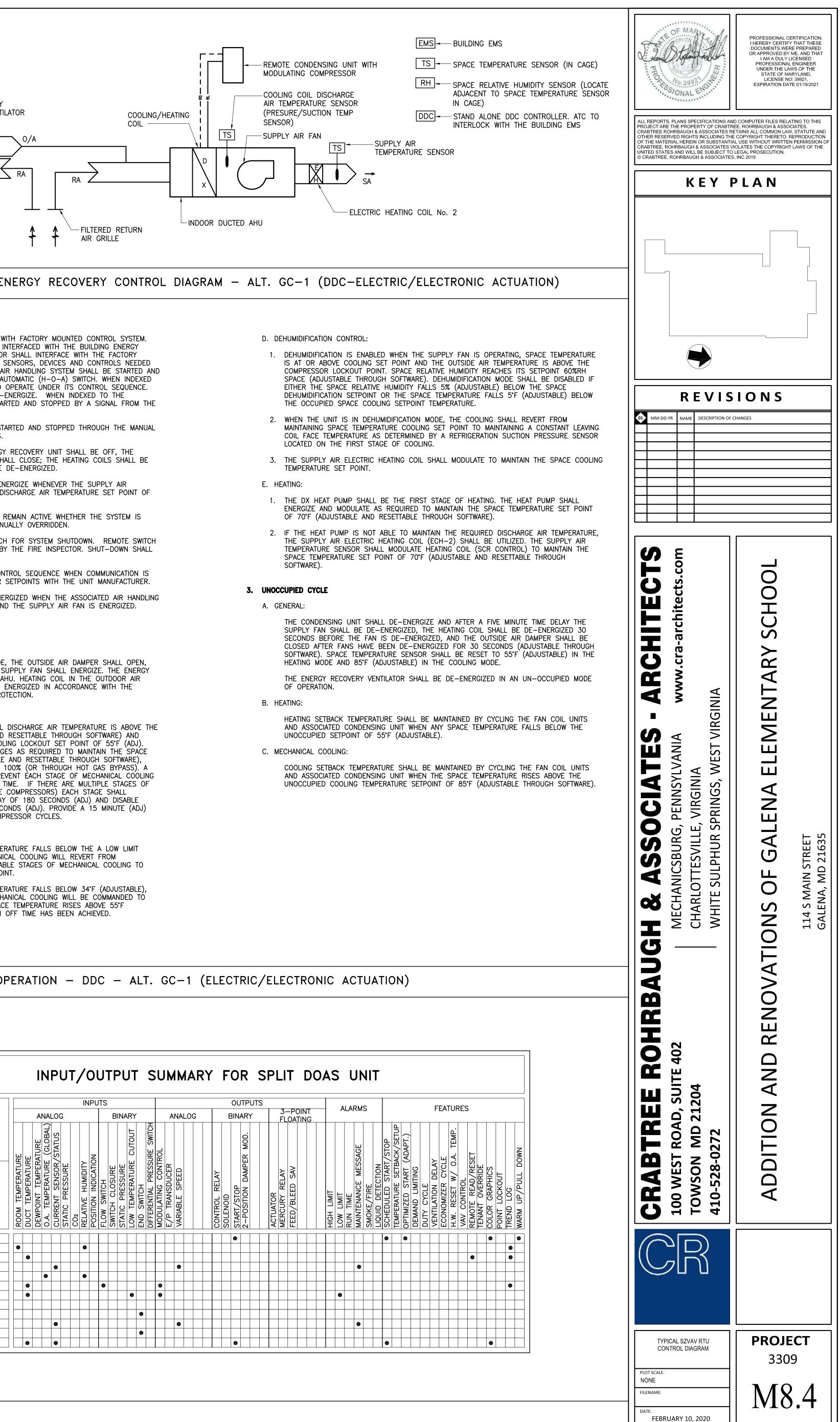
MIXED AIR TEMPERATURE SENSOR	COMPRESSOR INTERLOCK WITH THE BUILDING EMS	INPUT/OUTPU
HEAT WHEEL OUTSIDE AIR DAMPER WITH END SWITCH (MOD)	(PRESURE/SUCTION TEMP SENSOR) ———MODULATING HOT GAS VALVE	BUILDING SYSTEM: RTU-3: CLASSROOMS ANALOG
AIRFLOW MEASURING STATION (TYP)	HOT GAS HEATING COIL RH OUTDOOR AIR RELATIVE HUMIDITY SENSOR (GLOBAL) RH SENSOR	RTU-3: CLASSROOMS RTU-5: CLASSROOMS
	SUPPLY AIR FAN	RATURE SURE SURE SURE SURE SURE SURE SURE S
	VSD VARIABLE SPEED DRIVE W/ OAT OUTDOOR AIR TEMPERATURE SENSOR CS CURRENT SENSOR (TYP) (GLOBAL)	
RELIEF AIR DAMPER WITH TS RELIEF / CS RETURN AIR		RETURN AIR • • DUCT DETECTORS (TYP) • • SUPPLY AIR • •
RETURN AIR TEMPERATURE SENSOR DAMPER (MOD) SUPPLY AIR TEMPERATURE		SUPPLY AND RELIEF FANS Image: Constraint of the second s
DD SENSOR	(SP)	SUPPLY AIR STATIC Image: Constraint of the state of t
DUCT DETECTOR	S/A	SPACE RH
DUCT MOUNTED STATIC PRESSURE TRANSMITTER		
CKAGED VARIABLE AIR VOLUME ROOFTOP UNIT W/ HEAT RECO	VERY CONTROL DIAGRAM SCALE:	NONE TYPICAL PACKAGED VARIABLE AIR VOLUME ROOFTOF
I ERAL: THE AIR HANDLING SYSTEM SHALL BE PROVIDED WITH FACTORY MOUNTED CONTROL SYSTEM. THE	E. DEHUMIDIFICATION CONTROL: 1. DEHUMIDIFICATION IS ENABLED WHEN THE SUPPLY FAN IS OPERATING, SPACE TEMPERATURE IS AT	ELECTRIC HEATING U
DIRECT DIGITAL CONTROL SYSTEM SHALL BE INTERFACED WITH THE BUILDING ENERGY MANAGEMENT SYSTEM (EMS). THE ATC CONTRACTOR SHALL INTERFACE WITH THE FACTORY MOUNTED DIRECT DIGITAL CONTROLLER AND ALL SENSORS, DEVICES AND CONTROLS NEEDED TO INTERFACE WITH THE AHU CONTROLLER. THE AIR HANDLING SYSTEM SHALL BE STARTED AND STOPPED THROUGH A MANUAL	OR ABOVE COOLING SET POINT AND THE OUTSIDE AIR TEMPERATURE IS ABOVE THE COMPRESSOR LOCKOUT POINT. SPACE RELATIVE HUMIDITY REACHES ITS SETPOINT 60%RH SPACE (ADJUSTABLE THROUGH SOFTWARE). DEHUMIDIFICATION MODE SHALL BE DISABLED IF EITHER THE SPACE RELATIVE HUMIDITY FALLS 5% (ADJUSTABLE) BELOW THE SPACE DEHUMIDIFICATION SETPOINT OR	
TEM ON-OFF-AUTOMATIC (H-O-A) SWITCH. WHEN INDEXED TO "ON", THE SYSTEM SHALL BE IRGIZED AND OPERATE UNDER ITS CONTROL SEQUENCE. WHEN INDEXED TO "OFF" THE SYSTEM ILL DE-ENERGIZE. WHEN INDEXED TO THE "AUTOMATIC" POSITION THE SYSTEM SHALL BE STARTED STOPPED BY A SIGNAL FROM THE EMS THROUGH ITS BUILT IN CONTROLLER.	THE SPACE TEMPERATURE FALLS 5°F (ADJÚSTABLE) BELOW THE OCCUPIED SPACE COOLING SETPOINT TEMPERATURE. 2. WHEN THE UNIT IS IN DEHUMIDIFICATION MODE, THE COOLING SHALL REVERT FROM MAINTAINING	NOTE: ELECTRIC HEAT ELECTRIC CABINET UN
PLY FAN SHALL BE LOCALLY OR REMOTELY STARTED AND STOPPED THROUGH THE MANUAL SYSTEM CH OR BY A SIGNAL FROM THE EMS.	SUPPLY AIR TEMPERATURE COOLING SET POINT TO MAINTAINING A CONSTANT LEAVING COIL FACE TEMPERATURE AS DETERMINED BY A REFRIGERATION SUCTION PRESSURE SENSOR LOCATED ON THE FIRST STAGE OF COOLING.	A.
LIEF FAN AND HEAT WHEEL SHALL BE INTERLOCKED TO OPERATE WHEN THE SUPPLY FAN OPERATES ID TO BE OFF WHEN THE SUPPLY FAN IS OFF.	3. MODULATING HOT GAS REHEAT CONTROL-IF THE SUPPLY AIR TEMPERATURE FALLS BELOW ITS SETPOINT TEMPERATURE OF 70°F (ADJUSTABLE THROUGH SOFTWARE) DURING DEHUMIDIFICATION MODE AND THE FIRST STAGE OF MECHANICAL COOLING IS COMMANDED TO RUN, THE	1.
N THE UNIT SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL CLOSE; CONDENSING UNIT L BE DE—ENERGIZED; THE HEAT WHEEL SHALL BE DE—ENERGIZED; AND THE RELIEF AIR FAN L BE OFF.	REFRIGERATION MODULATING GAS HEAT WILL BEGIN TO MODULATE OPEN UNTIL THE SUPPLY AIR TEMPERATURE SET POINT (74°F ADJUSTABLE THROUGH SOFTWARE) IS SATISFIED. F. ECONOMIZER CONTROL:	2
JPPLY FAN, RELIEF FAN, CONDENSING UNIT AND HEAT WHEEL AND RELIEF FAN SHALL DE-ENERGIZE HENEVER THE SUPPLY AIR TEMPERATURE DROPS BELOW THE LIMIT OF THE DISCHARGE AIR EMPERATURE SET POINT OF 36°F (ADJUSTABLE THROUGH SOFTWARE) OR WHEN THE DUCT SMOKE ETECTORS SENSES PRODUCTS OF COMBUSTION OR WHEN THE HIGH DUCT STATIC PRESSURE SENSOR	1. THE UNIT SHALL BE PROVIDED WITH AN ENTHALPY ECONOMIZER CYCLE. THE ECONOMIZER CONTROL SHALL MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPER TO MAINTAIN SPACE TEMPERATURE WHENEVER OUTSIDE AIR ENTHALPY IS LESS THAN RETURN AIR ENTHALPY. THE	B. 1.
HES ITS SETPOINT (5" W.C. ADJUSTABLE). I THE AIR HANDLING UNIT IS OFF, THE HEAT WHEEL SHALL BE DE-ENERGIZED. WHENEVER THE HANDLING SYSTEM IS ON AND IN THE OCCUPIED MODE, THE HEAT WHEEL AND THE ASSOCIATED	ECONOMIZER CYCLE SHALL BE LOCKED OUT WHEN THE UNIT IS OPERATING IN THE DEHUMIDIFICATION SEQUENCE OF OPERATION, OR IF MECHANICAL COOLING IS COMMANDED TO OPERATE.	
EF AIR FAN SHALL BE ENERGIZED AND OPERATE THROUGH ITS CONTROL SEQUENCE. SAFETIES AND ASSOCIATED CONTROLS SHALL REMAIN ACTIVE WHETHER THE SYSTEM IS LOCALLY	2. AN ECONOMIZER LOW LIMIT WILL PREVENT THE MIXED AIR TEMPERATURE FROM FALLING BELOW THE ECONOMIZER LOW LIMIT SET POINT OF 45°F (ADJUSTABLE THROUGH SOFTWARE). IF THE MIXED AIR TEMPERATURE FALLS BELOW THE ECONOMIZER LOW LIMIT SET POINT AND MECHANICAL	
R REMOTELY CONTROLLED AND/OR MANUALLY OVERRIDDEN. ROVIDE A REMOTE EMERGENCY SHUTDOWN SWITCH FOR SYSTEM SHUTDOWN. REMOTE SWITCH SHALL E INSTALLED AT A LOCATION APPROVED BY THE FIRE INSPECTOR. SHUT—DOWN SHALL OCCUR FROM	COOLING IS DISABLED, THE ECONOMIZER WILL MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN THE ECONOMIZER LOW LIMIT SET POINT. DURING THIS MODE OF OPERATION, THE ECONOMIZER HAS THE ABILITY TO MODULATE THE OUTSIDE AIR DAMPER BELOW THE ECONOMIZER MINIMUM POSITION TO MAINTAIN THE ECONOMIZER LOW LIMIT TEMPERATURE SET POINT.	
SIGNAL THROUGH THE EMS. HE UNIT SHALL OPERATE WITH ITS BUILD-IN CONTROL SEQUENCE WHEN COMMUNICATION IS LOST TO HE EMS. COORDINATE ALL CONTROLLER SETPOINTS WITH THE UNIT MANUFACTURER.	G. HEAT RECOVERY: 1. THE ROTARY AIR—TO—AIR HEAT RECOVERY WHEEL SHALL OPERATE WHEN OUTSIDE AIR IS	
ORDINATE ALL CONTROL REQUIREMENTS WITH THE EXISTING VARIABLE AIR VOLUME TERMINAL NTROL UNITS.	REQUIRED. THE HEAT WHEEL CONTROLS SHALL INCLUDE FROST CONTROL, CLEANING CYCLE, AND ROTATIONAL DETECTOR. 2. THE HEAT WHEEL ACTS AS THE FIRST STAGE OF HEATING OR COOLING, WHEN THE UNIT IS	TYPICAL ELECTRIC HEATING UNIT CONTROL DIAGRAM
PIED CYCLE: ENERAL:	PLACED IN OCCUPIED MODE, THE SUPPLY FAN RUN STATUS IS CONFIRMED AND THERE IS A CALL FOR MECHANICAL HEATING OF COOLING, THE HEAT WHEEL IS COMMANDED TO RUN. IF THE RELIEF AIR DEWPOINT TEMPERATURE FALLS BELOW ITS TEMPERATURE SETPOINT AND RELIEF FAN RUN STATUS IS CONFIRMED, THE HEAT WHEEL WILL OPERATE IN DEFROST MODE. DURING THIS MODE	
WHEN THE SYSTEM IS PLACED IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL OPEN, THE RETURN AIR DAMPER SHALL CLOSE, AND THE SUPPLY FAN SHALL	OF OPERATION, THE HEAT WHEEL WILL OPERATE IN DEFROST MODE. DURING THIS MODE OF OPERATION, THE HEAT WHEEL WILL CYCLE ON FOR 30 MINUTES (ADJUSTABLE) AND THEN CYCLE OFF FOR 2 MINUTES (ADJUSTABLE) TO PREVENT ANY ICE BUILDUP. COORDINATE FROST CONTROL REQUIREMENTS WITH THE WHEEL MANUFACTURER.	
ENERGIZE WHEN THE OUTSIDE AIR DAMPER END SWITCH PROVES DAMPER IS IN OPEN POSITION. THE RELIEF FAN IS COMMANDED ON WHEN SUPPLY FAN RUN STATUS IS CONFIRMED AND THE RELIEF AIR DAMPER IS PROVED TO BE OPEN BY RELIEF AIR DAMPER END SWITCH.	3. THE ENTERING AND LEAVING AIR TEMPERATURES OF SUPPLY AND RELIEF AIR STREAMS SHALL BE MONITORED BY THE EMS. DURING INTERMEDIATE WEATHER CONDITIONS WHEN OUTSIDE AIR TEMPERATURES ARE BETWEEN 60°F (ADJUSTABLE THROUGH SOFTWARE) AND 80°F (ADJUSTABLE	
ARM—UP/PULL DOWN: THE UNIT CONTROL SHALL BE ARRANGED FOR A WINTER MORNING WARM—UP HEATING CYCLE AND SUMMER PULL DOWN COOLING CYCLE. DURING WARM—UP CYCLE THE OUTSIDE AIR DAMPER AND	THROUGH SOFTWARE) THE WHEEL SHALL ROTATE AT MINIMUM SPEED (¼ RPM) TO MINIMIZE RECOVERY EFFECTIVENESS (I.E. ECONOMIZER MODE). WHENEVER THE OUTDOOR AIR TEMPERATURE IS WARMER THAN THE RETURN AIR TEMPERATURE THE HEAT WHEEL SHALL BE IN THE COOLING MODE AND OPERATE AT 100% SPEED. WHEN THE OUTSIDE IS LESS THAN 60°F THE WHEEL SPEED	
RELIEF AIR DAMPER SHALL REMAIN CLOSED, AND THE RETURN AIR DAMPER OPEN UNTIL THE SPACE TEMPERATURE RISES TO 70°F (ADJUSTABLE). SIMILARLY FOR PULL DOWN CYCLE, THE CONDENSING UNIT SHALL BE STAGED UNTIL THE SPACE TEMPERATURE DROPS TO 75°F (ADJUSTABLE). AT THAT POINT, THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL OPEN,	SHALL VARY TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT. H. OUTSIDE AIR:	
(ADJUSTABLE). AT THAT POINT, THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL OPEN, THE RETURN AIR DAMPER SHALL CLOSE, THE RELIEF AIR FAN AND HEAT RECOVERY WHEEL SHALL ENERGIZE AS PREVIOUSLY DESCRIBED, AND THE HEATING AND COOLING CONTROL SHALL BE PLACED UNDER THE CONTROL OF THE SPACE AIR TEMPERATURE SENSOR.	1. THE SCHEDULED MINIMUM OUTSIDE AIR FLOW RATE SHALL BE MAINTAINED BY MODULATING THE OUTDOOR AIR DAMPER AND VERIFIED BY THE AIR FLOW MEASURING STATION.	$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
OOLING . COOLING IS ENABLED WHEN THE SUPPLY AIR TEMPERATURE IS ABOVE THE COOLING SET POINT	I. FAN SPEED CONTROL: 1. SUPPLY AIR FAN SHALL BE CONTROLLED TO MAINTAIN SUPPLY AIR STATIC PRESSURE.	UNIT HEATER
OF 56°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE) AND OUTSIDE AIR TEMPERATURE IS	2. THE RELIEF AIR FAN SHALL VARY ITS FAN SPEED TO MAINTAIN A SLIGHTLY POSITIVE BUILDING PRESSURE THROUGH A DIFFERENTIAL PRESSURE CONTROLLER.	T-1
ABOVE THE COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15%	3. UNOCCUPIED CYCLE:	SPACE TERMOSTAT
ABOVE THE COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OFF SHALL PREVENT EACH STAGE OF MECHANICAL COOLING FROM ENABLING AND DISABLING AT THE SAME TIME. IF THERE ARE MULTIPLE STAGES OF MECHANICAL COOLING AVAILABLE (I.E. MULTIPLE	D. GENERAL:	
ABOVE THE COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OFF SHALL PREVENT EACH STAGE OF MECHANICAL COOLING FROM ENABLING AND DISABLING AT THE SAME	1. THE CONDENSING UNIT SHALL DE—ENERGIZE AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN, ASSOCIATED RELIEF FAN, AND HEAT RECOVERY WHEEL SHALL BE DE—ENERGIZED, OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE HEATING WATER COIL CONTROL	
ABOVE THE COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OFF SHALL PREVENT EACH STAGE OF MECHANICAL COOLING FROM ENABLING AND DISABLING AT THE SAME TIME. IF THERE ARE MULTIPLE STAGES OF MECHANICAL COOLING AVAILABLE (I.E. MULTIPLE COMPRESSORS) EACH STAGE SHALL SEQUENTIALLY ENABLE BASED ON A TIME DELAY OF 180 SECONDS (ADJ) AND DISABLE BASED ON A MINIMUM DELAY OFF OF 180 SECONDS (ADJ). PROVIDE A 15 MINUTE (ADJ) ANTI-SHORT CYCLE TIME DELAY BETWEEN COMPRESSOR CYCLES.	1. THE CONDENSING UNIT SHALL DE-ENERGIZE AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN, ASSOCIATED RELIEF FAN, AND HEAT RECOVERY WHEEL SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE HEATING WATER COIL CONTROL VALVE SHALL BE CLOSED AND RETURN AIR DAMPER SHALL BE OPEN. SPACE TEMPERATURE SENSOR SHALL BE RESET TO 55°F (ADJUSTABLE) IN THE HEATING MODE.	1. ROOM THERMOSTAT, T–1, SHALL DAMPER AND EXHAUST AIR DAM ASSOCIATED OUTSIDE AIR AND E (ADJUSTABLE), THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAM
ABOVE THE COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OFF SHALL PREVENT EACH STAGE OF MECHANICAL COOLING FROM ENABLING AND DISABLING AT THE SAME TIME. IF THERE ARE MULTIPLE STAGES OF MECHANICAL COOLING AVAILABLE (I.E. MULTIPLE COMPRESSORS) EACH STAGE SHALL SEQUENTIALLY ENABLE BASED ON A TIME DELAY OF 180 SECONDS (ADJ) AND DISABLE BASED ON A MINIMUM DELAY OFF OF 180 SECONDS (ADJ). PROVIDE A 15 MINUTE (ADJ) ANTI-SHORT CYCLE TIME DELAY BETWEEN COMPRESSOR CYCLES.	 THE CONDENSING UNIT SHALL DE-ENERGIZE AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN, ASSOCIATED RELIEF FAN, AND HEAT RECOVERY WHEEL SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE HEATING WATER COIL CONTROL VALVE SHALL BE CLOSED AND RETURN AIR DAMPER SHALL BE OPEN. SPACE TEMPERATURE SENSOR SHALL BE RESET TO 55°F (ADJUSTABLE) IN THE HEATING MODE. E. HEATING: 1. HEATING IS CONTROLLED BY EXISTING VARIABLE AIR VOLUME TERMINAL CONTROL UNITS. 	DAMPER AND EXHAUST AIR DAM ASSOCIATED OUTSIDE AIR AND I (ADJUSTABLE), THE OUTSIDE AIR
ABOVE THÈ COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OFF SHALL PREVENT EACH STAGE OF MECHANICAL COOLING FROM ENABLING AND DISABLING AT THE SAME TIME. IF THERE ARE MULTIPLE STAGES OF MECHANICAL COOLING AVAILABLE (I.E. MULTIPLE COMPRESSORS) EACH STAGE SHALL SEQUENTIALLY ENABLE BASED ON A TIME DELAY OF 180 SECONDS (ADJ) AND DISABLE BASED ON A MINIMUM DELAY OFF OF 180 SECONDS (ADJ). PROVIDE A 15 MINUTE (ADJ) ANTI-SHORT CYCLE TIME DELAY BETWEEN COMPRESSOR CYCLES. HEATING: HEATING IS CONTROLLED BY EXISTING TERMINAL CONTROL UNITS. REFRIGERATION LOW LIMIT CONTROL: IF THE EVAPORATIVE LEAVING COIL FACE TEMPERATURE FALLS BELOW THE A LOW LIMIT SETPOINT OF 40°F (ADJUSTABLE), THE MECHANICAL COOLING WILL REVERT FROM TEMPERATURE CONTROL TO SEQUENTIALLY DISABLE STAGES OF MECHANICAL COOLING TO MAINTAIN THE LOW LIMIT	 THE CONDENSING UNIT SHALL DE-ENERGIZE AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN, ASSOCIATED RELIEF FAN, AND HEAT RECOVERY WHEEL SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE HEATING WATER COIL CONTROL VALVE SHALL BE CLOSED AND RETURN AIR DAMPER SHALL BE OPEN. SPACE TEMPERATURE SENSOR SHALL BE RESET TO 55'F (ADJUSTABLE) IN THE HEATING MODE. E. HEATING: HEATING IS CONTROLLED BY EXISTING VARIABLE AIR VOLUME TERMINAL CONTROL UNITS. MECHANICAL COOLING: MECHANICAL COOLING IS DISABLED. IF THE UNIT IS MONITORING SPACE TEMPERATURE AND THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED COOLING TEMPERATURE SETPOINT OF 85'F 	DAMPER AND EXHAUST AIR DAM ASSOCIATED OUTSIDE AIR AND (ADJUSTABLE), THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAM 2. ON A FALL IN ROOM TEMPERAT
ABOVE THÈ COOLING LOCKOUT SET POINT OF 55°F (ADJ). THE UNIT SHALL SEQUENCE THE COOLING STAGES AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT OF 58°F (ADJUSTABLE AND RESETTABLE THROUGH SOFTWARE), MODULATING THE COMPRESSOR FROM 15% TO 100% (OR THROUGH HOT GAS BYPASS). A STAGING DELAY ON AND DELAY OFF SHALL PREVENT EACH STAGE OF MECHANICAL COOLING FROM ENABLING AND DISABLING AT THE SAME TIME. IF THERE ARE MULTIPLE STAGES OF MECHANICAL COOLING AVAILABLE (I.E. MULTIPLE COMPRESSORS) EACH STAGE SHALL SEQUENTIALLY ENABLE BASED ON A TIME DELAY OF 180 SECONDS (ADJ) AND DISABLE BASED ON A MINIMUM DELAY OFF OF 180 SECONDS (ADJ). PROVIDE A 15 MINUTE (ADJ) ANTI-SHORT CYCLE TIME DELAY BETWEEN COMPRESSOR CYCLES. HEATING: . HEATING IS CONTROLLED BY EXISTING TERMINAL CONTROL UNITS. REFRIGERATION LOW LIMIT CONTROL: . IF THE EVAPORATIVE LEAVING COIL FACE TEMPERATURE FALLS BELOW THE A LOW LIMIT SETPOINT OF 40°F (ADJUSTABLE), THE MECHANICAL COOLING WILL REVERT FROM TEMPERATURE CONTROL TO	 THE CONDENSING UNIT SHALL DE-ENERGIZE AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN, ASSOCIATED RELIEF FAN, AND HEAT RECOVERY WHEEL SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE HEATING WATER COIL CONTROL VALVE SHALL BE CLOSED AND RETURN AIR DAMPER SHALL BE OPEN. SPACE TEMPERATURE SENSOR SHALL BE RESET TO 55°F (ADJUSTABLE) IN THE HEATING MODE. E. HEATING: HEATING IS CONTROLLED BY EXISTING VARIABLE AIR VOLUME TERMINAL CONTROL UNITS. MECHANICAL COOLING: MECHANICAL COOLING IS DISABLED. IF THE UNIT IS MONITORING SPACE TEMPERATURE AND THE 	DAMPER AND EXHAUST AIR DAM ASSOCIATED OUTSIDE AIR AND (ADJUSTABLE), THE OUTSIDE AI DAMPER AND EXHAUST AIR DAM 2. ON A FALL IN ROOM TEMPERAT THERMOSTAT) SHALL ENERGIZE



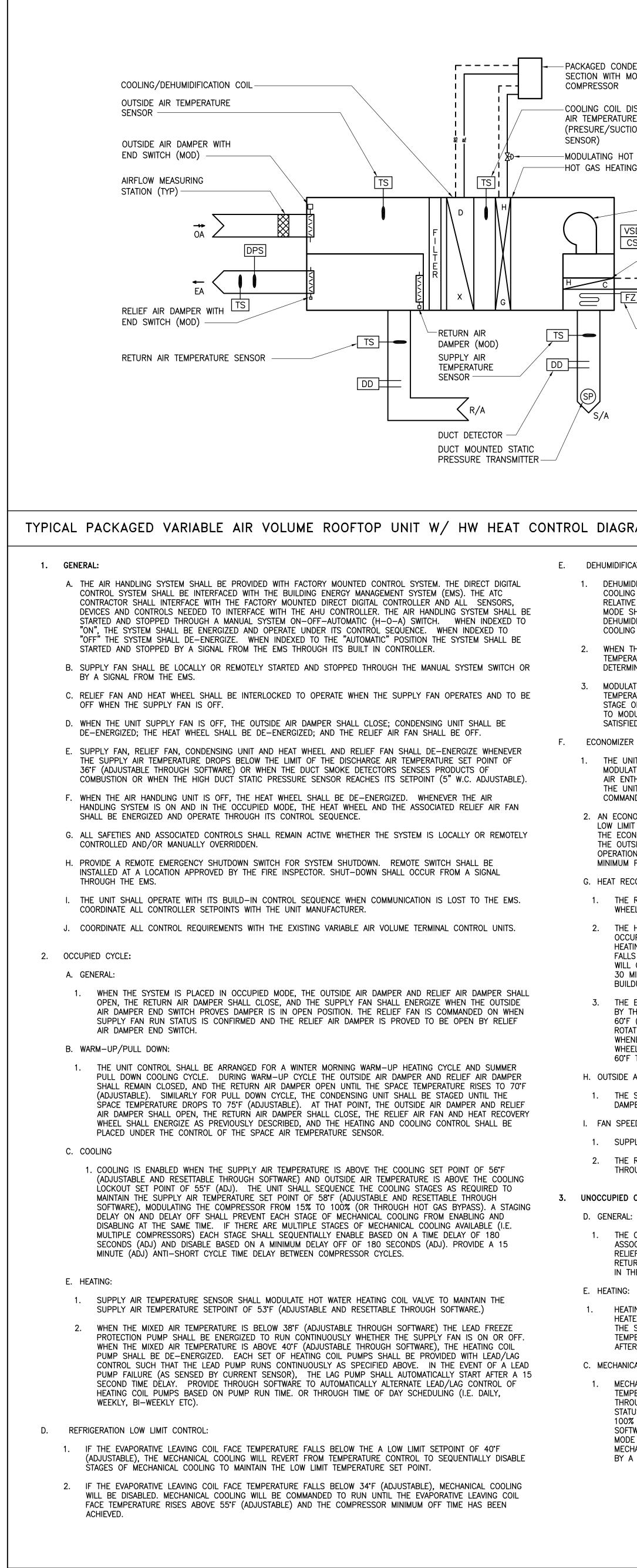
OUTSIDE / SENSOR - OUTSIDE /	DEHUMIDIFICATION COIL AIR TEMPERATURE AIR DAMPER WITH CH (MOD)			SECTION COMP COOLI AIR TI (PRES SENSO XD-MODU	AGED CONDENSING ON WITH MODULATING RESSOR NG COIL DISCHARGE EMPERATURE SENSOR URE/SUCTION TEMP OR) LATING HOT GAS VAL GAS HEATING COIL
END SWIT	OA DPS EA EA TS CH (MOD) IR TEMPERATURE SENSOR -		RETURN AIR DAMPER (MOD) SUPPLY AIR TEMPERATURE SENSOR		S/A
TYPICAL PACK		NE VARIABLE AIR N	DUCT DETECTOR		DIAGI
E. 4 E. 4 E. 4 E. 4 F. F. F. F. S. 0 C. 0 C. 0 1. B. F 1. C. 0 1. E. 2. C. 0 C. 0 C. 0 C. 0 C. 0 C. 0 C. 0 C.	DIGITAL CONTROL SYSTEM SHAL HE ATC CONTRACTOR SHALL I ALL SENSORS, DEVICES AND HANDLING SYSTEM SHALL BE S H-O-A) SWITCH. WHEN IND TS CONTROL SEQUENCE. WHE O THE "AUTOMATIC" POSITION MS THROUGH ITS BUILT IN CO SUPPLY FAN SHALL BE LOCALL SWITCH OR BY A SIGNAL FROM WHEN THE UNIT SUPPLY FAN I SHALL BE DE-ENERGIZED. SUPPLY FAN, AND CONDENSING SELOW THE LIMIT OF THE DISC SOFTWARE) OR WHEN THE DUC IGH DUCT STATIC PRESSURE ALL SAFETIES AND ASSOCIATED REMOTELY CONTROLLED AND/O PROVIDE A REMOTE EMERGENCI NSTALLED AT A LOCATION APP SIGNAL THROUGH THE EMS. THE UNIT SHALL OPERATE WITH CMS. COORDINATE ALL CONTRO IPIED CYCLE: SENERAL: WHEN THE SYSTEM IS PLA DAMPER SHALL OPEN, THE ENERGIZE WHEN THE OUTS PULL DOWN: THE UNIT CONTROL SHALL PULL DOWN CYCLE THE OU RETURN AIR DAMPER OPEN, CONTROL SHALL DEPEN, THE ENERGIZE WHEN THE OUTS PULL DOWN: THE UNIT CONTROL SHALL PULL DOWN CYCLE THE OU RETURN AIR DAMPER OPEN, CONTROL SHALL BE PLACE COOLING COOLING IS ENABLED WHE 76'F (ADJUSTABLE AND RE THE COOLING LOCKOUT SE AS REQUIRED TO MAINTAIN RESETTABLE THROUGH SO HOT GAS BYPASS). A STAC MECHANICAL COOLING FRO STAGES OF MECHANICAL C SEQUENTIALLY ENABLE BAS MINIMUM DELAY OFF OF 1 DELAY BETWEEN COMPRESS MODULATING HOT GAS REHE AIR TEMPERATURE OF 75'F	Y OR REMOTELY STARTED AND ST I THE EMS. S OFF, THE OUTSIDE AIR DAMPER C UNIT DE-ENERGIZE WHENEVER T HARGE AIR TEMPERATURE SET POL T SMOKE DETECTORS SENSES PRESENSOR REACHES ITS SETPOINT (S CONTROLS SHALL REMAIN ACTIVE R MANUALLY OVERRIDDEN. Y SHUTDOWN SWITCH FOR SYSTEM ROVED BY THE FIRE INSPECTOR. S H ITS BUILD-IN CONTROL SEQUENT LLER SETPOINTS WITH THE UNIT M CED IN OCCUPIED MODE, THE OUT RETURN AIR DAMPER SHALL CLO SIDE AIR DAMPER END SWITCH PRO BE ARRANGED FOR A SUMMER P JTSIDE AIR DAMPER AND RELIEF A I, AND THE CONDENSING UNIT SH 75'F (ADJUSTABLE). AT THAT POII THE RETURN AIR DAMPER SHALL D UNDER THE CONTROL OF THE SETTABLE THROUGH SOFTWARE) AI THE SPACE AIR TEMPERATURE IS SETTABLE THROUGH SOFTWARE) AI THE SPACE AIR TEMPERATURE IS N THE SPACE AIR TEMPERATURE IS N THE SPACE AIR TEMPERATURE SET P TWARE), MODULATING THE COMPRESING DELAY ON AND DELAY OFF S M ENABLING AND DISABLING AT THOOLING AVAILABLE (I.E. MULTIPLE SED ON A TIME DELAY OF 180 SE BO SECONDS (ADJ). PROVIDE A 15	DING ENERGY MANAGEM JNTED DIRECT DIGITAL O WITH THE AHU CONTRO A MANUAL SYSTEM ON- L BE ENERGIZED AND A SHALL DE-ENERGIZE. AND STOPPED BY A SI OPPED THROUGH THE SHALL CLOSE; AND CO THE SUPPLY AIR TEMPE INT OF 36°F (ADJUSTAB ODUCTS OF COMBUSTIO 5" W.C. ADJUSTABLE). WHETHER THE SYSTEM I SHUTDOWN. REMOTE SHUT-DOWN SHALL OCO CE WHEN COMMUNICATION (ANUFACTURER. TSIDE AIR DAMPER AND SE, AND THE SUPPLY I OVES DAMPER IS IN OF ULL DOWN COOLING CY IN DAMPER SHALL REM ALL BE STAGED UNTIL NT, THE OUTSIDE AIR D CLOSE, AND THE SUPPLY I OVES DAMPER IS IN OF ULL DOWN COOLING CY IN DAMPER SHALL REM ALL BE STAGED UNTIL NT, THE OUTSIDE AIR D CLOSE, AND THE HEAT SPACE AIR TEMPERATUF S ABOVE THE COOLING ND OUTSIDE AIR TEMPE IT SHALL SEQUENCE TH OINT OF 76°F (ADJUSTA ESSOR FROM 15% TO C HALL PREVENT EACH S HE SAME TIME. IF THE COMPRESSORS) EACH S I SHALL MODULATE TO N).	ENT SYSTEM (EMS). CONTROLLER AND DULER. THE AIR OFF-AUTOMATIC OPERATE UNDER WHEN INDEXED GNAL FROM THE MANUAL SYSTEM DNDENSING UNIT RATURE DROPS LE THROUGH N OR WHEN THE IS LOCALLY OR SWITCH SHALL BE CUR FROM A ON IS LOST TO THE RELIEF AIR FAN SHALL ON IS LOST TO THE RELIEF AIR FAN SHALL YEN POSITION. CLE. DURING AIN CLOSED, THE THE SPACE DAMPER AND RELIEF ING AND COOLING RE SENSOR. SET POINT OF RATURE IS ABOVE HE COOLING STAGES ABLE AND 100% (OR THROUGH TAGE OF RE ARE MULTIPLE STAGE SHALL BLE BASED ON A SHORT CYCLE TIME MAINTAIN DISCHARGE	1. IF T 40'F SEG SET 2. IF T COC EVA COM D. HEATING 1. HEA F. FAN SPP THE 3. UNOCCUPIED A. GENERAL 1. THE OUT BE MOL B. HEATING 1. HEA C. MECHAN 1. MEC TEM THR RUN ENA (AD, THE TIME OPE EMS
		INPUT/OUTPU	T SUMMAR	Y FOR PAC	KAGED RO
	BUILDING SYSTEM: RTU-2: STORAGE DESCRIPTION		ITCH CLOSURE RESSURE PERATURE CUTOUT CH ML PRESSURE SWITCH ING ACTUATOR NSDUCER NSDUCER	VARIABLE SPEED VARIABLE SPEED BINARY SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID SOLENOID	TS
	RETURN AIRDUCT DETECTORS (TYP)SUPPLY AIRSUPPLY FANOUTSIDE AIR (GLOBAL)RELIEF AIRSUPPLY AIR STATICDAMPERS (TYP)SPACE TEMPERATURE				

NG		DC CONTROLLER ATC – THE BUILDING EMS			INTAKE/EXHAUST VENT OR LOUVER		
SE OR P					SWITCH		
ALVE SUPPLY AIR FAN	RH - OUTDOOR AIR RI (GLOBAL) RH - SPACE RH SENS	ELATIVE HUMIDITY SENSOR	0/A		E/A INDOOR ENER RECOVERY VE	ENTILATOR)/.
VARIABLE SPEED DRIVE W/ CURRENT SENSOR (TYP)	OAT - OUTDOOR AIR TE (GLOBAL)	EMPERATURE SENSOR		FILTER	TS OUTDOOR AIR TEMPERATURE SENSO ELECTRIC HEATING COIL No. 1	RA RA	
			SPL	IT AIR HAN	NDLING UNIT WITH	ENER	G
O'F (ADJUSTABLE), THE MECHANIC	CAL COOLING WILL REVERT FROM	OW THE A LOW LIMIT SETPOINT OF	E: NONE	THE DIRECT DIG MANAGEMENT SY MOUNTED DIREC TO INTERFACE V STOPPED THROU TO "ON", THE S WHEN INDEXED "AUTOMATIC" PO EMS THROUGH I B. SUPPLY FAN SH SYSTEM SWITCH	ING SYSTEM SHALL BE PROVIDE GITAL CONTROL SYSTEM SHALL E YSTEM (EMS). THE ATC CONTRAC T DIGITAL CONTROLLER AND AL WITH THE AHU CONTROLLER. TH UGH A MANUAL SYSTEM ON-OF SYSTEM SHALL BE ENERGIZED A TO "OFF" THE SYSTEM SHALL BE ITS BUILT IN CONTROLLER. HALL BE LOCALLY OR REMOTELY I OR BY A SIGNAL FROM THE E SUPPLY FAN IS OFF, THE ENE	BE INTERFA CTOR SHAI L SENSO E AIR HAN F-AUTOMA ND OPERA DE-ENERG STARTED A STARTED MS.	AC _L RS ID ID ID IZ IZ AN A
SET POINT.	FACE TEMPERATURE FALLS BELG IANICAL COOLING WILL BE COMM TEMPERATURE RISES ABOVE 55°F	OW 34°F (ADJUSTABLE), MECHANICAL ANDED TO RUN UNTIL THE		OUTSIDE AIR DA DE-ENERGIZED, D. SUPPLY FAN AN TEMPERATURE D 40°F (ADJUSTAB E. ALL SAFETIES A	AMPER AND RELIEF AIR DAMPER AND CONDENSING UNIT SHALL ND CONDENSING UNIT SHALL DE DROPS BELOW THE LIMIT OF TH BLE THROUGH SOFTWARE)	SHALL CI BE DE-EI -ENERGIZI E DISCHAR LL REMAIN	LO NE RGI
E VFD SHALL BE USED FOR BAL	FAN AND SHALL BE PROVIDED	WITH A VARIABLE FREQUENCY DRIVE EED SHALL BE FIXED.		 F. PROVIDE A REM SHALL BE INSTA OCCUR FROM A G. THE UNIT SHALL 	EMOTELY CONTROLLED AND/OR IN MOTE EMERGENCY SHUTDOWN SW ALLED AT A LOCATION APPROVE A SIGNAL THROUGH THE EMS. L OPERATE WITH ITS BUILD-IN EMS. COORDINATE ALL CONTROLL	VITCH FOR D BY THE CONTROL	S F SE
	AIR DAMPER SHALL BE CLOSED,	INUTE TIME DELAY THE SUPPLY FAN, AND RETURN AIR DAMPER SHALL (ADJUSTABLE) IN THE HEATING	2.	UNIT IS IN AN O OCCUPIED CYCLE A. GENERAL: WHEN THE SYST	ECOVERY UNIT SHALL ONLY BE OCCUPIED MODE OF OPERATION TEM IS PLACED IN OCCUPIED M	AND THE	S 0
EMPERATURE RISES ABOVE THE UNIT OF THROUGH SOFTWARE), THE UNIT OF RUN STATUS IS CONFIRMED, THE NABLES 100% MECHANICAL COOL ADJUSTABLE THROUGH SOFTWARE) THE COOLING NIGHT CYCLE MODE THE DELAY TO ALLOW FOR MECH/	. IF THE UNIT IS MONITORING SI JNOCCUPIED COOLING TEMPERATU OOLING NIGHT CYCLE MODE IS E UNIT OPERATES WITH THE ECONC ING CAPACITY. ONCE THE SPACE BELOW THE SPACE UNOCCUPIE IS DISABLE. THE SUPPLY FAN IS ANICAL UNLOADING. THE UNOCCU	D COOLING TEMPERATURE SETPOINT, S DISABLED AFTER 120 SECONDS		RECOVERY UNIT DUCT TO THE E MANUFACTURER' B. COOLING: 1. COOLING IS COOLING SET OUTSIDE AIR THE UNIT SH TEMPERATURI MODULATING STAGING DELL FROM ENABLI MECHANICAL SEQUENTIALL' BASED ON A ANTI-SHORT	2 DAMPER SHALL OPEN, THE AH SHALL BE ENERGIZED WITH TH ENERGY RECOVERY UNIT SHALL 'S REQUIREMENTS FOR FREEZE ENABLED WHEN THE COOLING OF T POINT OF 55°F (ADJUSTABLE TEMPERATURE IS ABOVE THE OF ALL SEQUENCE THE COOLING SE E SET POINT OF 75°F (ADJUSTA THE COMPRESSOR FROM 15% AY ON AND DELAY OFF SHALL ING AND DISABLING AT THE SAN COOLING AVAILABLE (I.E. MULTIN Y ENABLE BASED ON A TIME DI MINIMUM DELAY OFF OF 180 CYCLE TIME DELAY BETWEEN C LOW LIMIT CONTROL:	E AHU. HI BE ENERG PROTECTIC COLL DISCH AND RESE COOLING LO TAGES AS BLE AND TO 100% PREVENT I ME TIME. PLE COMP ELAY OF 1 SECONDS	EA IZI N IAF TO F RE (O EA IF E 8(A
				 IF THE EVAPO SETPOINT OF TEMPERATURI MAINTAIN THE IF THE EVAPO MECHANICAL RUN UNTIL T 	ORATIVE LEAVING COIL FACE TEI 40°F (ADJUSTABLE), THE MECH E CONTROL TO SEQUENTIALLY D E LOW LIMIT TEMPERATURE SET ORATIVE LEAVING COIL FACE TEI COOLING WILL BE DISABLED. M THE EVAPORATIVE LEAVING COIL C) AND THE COMPRESSOR MINIM	IANICAL CO ISABLE ST POINT. MPERATURI ECHANICAL FACE TEM	
- OPERATION – DD	C (ELECTRIC/ELEC	TRONIC ACTUATION)	SPLI	T DOAS UN	NIT SEQUENCE OF	OPER	A
ALARMS	FEATURES				BUILDING SYSTEM: SS-3 (ALT. GC-1)		
LIMIT IMIT IME ENANCE MESS ENANCE MESS E/FIRE DILED START/ RATURE SETBA RATURE SETBA VD LIMITING CYCLE	VENTILATION DELAY ECONOMIZER CYCLE H.W. RESET W/ O.A VAV CONTROL REMOTE READ/RESET TENANT OVERRIDE COLOR GRAPHICS POINT LOCKOUT TREND LOG WARM UP/PULL DOWN				DESCRIPTION	ROOM TEMPERATURE	۳
					AHU SPACE SUPPLY AIR SUPPLY FAN OUTSIDE AIR (GLOBAL) HEATING COIL		
					COOLING COIL FREEZE STAT OUTSIDE AIR DAMPER EXHAUST AIR FAN EXHAUST AIR DAMPER ENERGY RECOVERY UNIT		0

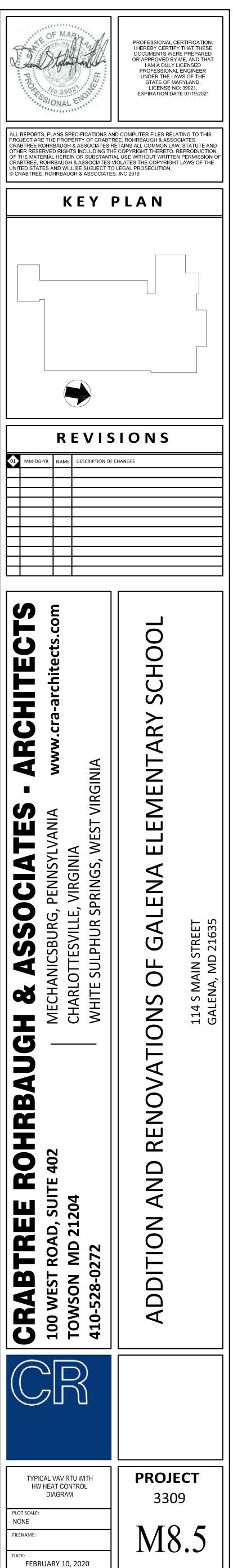
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DLOCT DEWPC D.A. T O.A. T CURRE STATIC SWITCI FLOW FLOW FLOW T FLOW T FLOW T CO SWITCI SWITCI



ODULATING	DDC STAND ALONE DDC CONTROLLER ATC	
ISCHARGE E SENSOR ON TEMP		INPUT/OUTPUT SUMMARY FOR PACKAGED ROOFTOP UNIT
GAS VALVE G COIL	RH - OUTDOOR AIR RELATIVE HUMIDITY SENSOR (GLOBAL) RH - SPACE RH SENSOR	BUILDING_SYSTEM: RTU-6: ADMIN INPUTS OUTPUTS ALARMS FEATURES ANALOG BINARY ANALOG BINARY 3-POINT FLOATING ALARMS FEATURES
SUPPLY AIR FAN D VARIABLE SPEED DRIVE W/ CURRENT SENSOR (TYP) HEATING COIL	OAT OUTDOOR AIR TEMPERATURE SENSOR (GLOBAL)	ROOM TEMPERATURE DUCT TEMPERATURE DONITON TEMPERATURE DUCT TEMPERATURE DONITON STATIC PRESSURE DUCT TEMPERATURE STATIC PRESSURE STATIC PRESSURE DUCT TEMPERATURE STATIC PRESSURE DUCT TEMPERATURE STATIC PRESSURE STATIC PRESSURE STATIC PRESSURE STATIC PRESSURE STATIC PRESSURE DOUT TORCE STATIC PRESSURE STATIC PRESSURE
FREEZESTAT	FREEZE PROTECTION PUMPS	AHU A
-TWO-WAY VALVE (ATC)		SUPPLY AIR STATIC Image: Supple state in the state
?AM	TYPIC	AL PACKAGED VARIABLE AIR VOLUME ROOFTOP UNIT W/ HW HEAT I/O POINTS LIST
TION CONTROL:	SCALE: NONE	AL LACKAGED VARIABLE AIR VOLOME ROOFTOT ONT WY THEAT TYO FOINTS LIST
SET POINT AND THE OUTSIDE AIR TEMI E HUMIDITY REACHES ITS SETPOINT 60%F HALL BE DISABLED IF EITHER THE SPAC DIFICATION SETPOINT OR THE SPACE TEM	LY FAN IS OPERATING, SPACE TEMPERATURE IS AT OR ABOVE PERATURE IS ABOVE THE COMPRESSOR LOCKOUT POINT. SPACE RH SPACE (ADJUSTABLE THROUGH SOFTWARE). DEHUMIDIFICATION E RELATIVE HUMIDITY FALLS 5% (ADJUSTABLE) BELOW THE SPACE PERATURE FALLS 5°F (ADJUSTABLE) BELOW THE OCCUPIED SPACE	
ATURE COOLING SET POINT TO MAINTAINI	THE COOLING SHALL REVERT FROM MAINTAINING SUPPLY AIR NG A CONSTANT LEAVING COIL FACE TEMPERATURE AS SSURE SENSOR LOCATED ON THE FIRST STAGE OF COOLING.	
TING HOT GAS REHEAT CONTROL—IF THE ATURE OF 70°F (ADJUSTABLE THROUGH : DF MECHANICAL COOLING IS COMMANDED	SUPPLY AIR TEMPERATURE FALLS BELOW ITS SETPOINT SOFTWARE) DURING DEHUMIDIFICATION MODE AND THE FIRST TO RUN, THE REFRIGERATION MODULATING GAS HEAT WILL BEGIN MPERATURE SET POINT (74°F ADJUSTABLE THROUGH SOFTWARE) IS	
E THE OUTSIDE AIR AND RETURN AIR D HALPY IS LESS THAN RETURN AIR ENTH.	PY ECONOMIZER CYCLE. THE ECONOMIZER CONTROL SHALL DAMPER TO MAINTAIN SPACE TEMPERATURE WHENEVER OUTSIDE ALPY. THE ECONOMIZER CYCLE SHALL BE LOCKED OUT WHEN DN SEQUENCE OF OPERATION, OR IF MECHANICAL COOLING IS	
SET POINT OF 45°F (ADJUSTABLE THRC OMIZER LOW LIMIT SET POINT AND MEC IDE AIR DAMPERS TO MAINTAIN THE ECC	IXED AIR TEMPERATURE FROM FALLING BELOW THE ECONOMIZER OUGH SOFTWARE). IF THE MIXED AIR TEMPERATURE FALLS BELOW HANICAL COOLING IS DISABLED, THE ECONOMIZER WILL MODULATE DNOMIZER LOW LIMIT SET POINT. DURING THIS MODE OF D MODULATE THE OUTSIDE AIR DAMPER BELOW THE ECONOMIZER LOW LIMIT TEMPERATURE SET POINT.	
	IEEL SHALL OPERATE WHEN OUTSIDE AIR IS REQUIRED. THE HEAT NTROL, CLEANING CYCLE, AND ROTATIONAL DETECTOR.	
PIED MODE, THE SUPPLY FAN RUN STA NG OF COOLING, THE HEAT WHEEL IS C BELOW ITS TEMPERATURE SETPOINT AN OPERATE IN DEFROST MODE. DURING TH NUTES (ADJUSTABLE) AND THEN CYCLE	OF HEATING OR COOLING, WHEN THE UNIT IS PLACED IN TUS IS CONFIRMED AND THERE IS A CALL FOR MECHANICAL OMMANDED TO RUN. IF THE RELIEF AIR DEWPOINT TEMPERATURE ID RELIEF FAN RUN STATUS IS CONFIRMED, THE HEAT WHEEL HIS MODE OF OPERATION, THE HEAT WHEEL WILL CYCLE ON FOR OFF FOR 2 MINUTES (ADJUSTABLE) TO PREVENT ANY ICE IREMENTS WITH THE WHEEL MANUFACTURER.	
HE EMS. DURING INTERMEDIATE WEATHER (ADJUSTABLE THROUGH SOFTWARE) AND TE AT MINIMUM SPEED (¼ RPM) TO MIN NEVER THE OUTDOOR AIR TEMPERATURE EL SHALL BE IN THE COOLING MODE ANI THE WHEEL SPEED SHALL VARY TO MAII	RES OF SUPPLY AND RELIEF AIR STREAMS SHALL BE MONITORED CONDITIONS WHEN OUTSIDE AIR TEMPERATURES ARE BETWEEN 80°F (ADJUSTABLE THROUGH SOFTWARE) THE WHEEL SHALL IMIZE RECOVERY EFFECTIVENESS (I.E. ECONOMIZER MODE). IS WARMER THAN THE RETURN AIR TEMPERATURE THE HEAT O OPERATE AT 100% SPEED. WHEN THE OUTSIDE IS LESS THAN NTAIN THE SUPPLY AIR TEMPERATURE SETPOINT.	
PER AND VERIFIED BY THE AIR FLOW ME		
	MAINTAIN SUPPLY AIR STATIC PRESSURE. PEED TO MAINTAIN A SLIGHTLY POSITIVE BUILDING PRESSURE DLLER.	
CYCLE:		
OCIATED RELIEF FAN, AND HEAT RECOVER EF AIR DAMPER SHALL BE CLOSED, THE	AND AFTER A FIVE MINUTE TIME DELAY THE SUPPLY FAN, Y WHEEL SHALL BE DE-ENERGIZED, OUTSIDE AIR DAMPER AND HEATING WATER COIL CONTROL VALVE SHALL BE CLOSED AND E TEMPERATURE SENSOR SHALL BE RESET TO 55°F (ADJUSTABLE)	
ER WHEN ANY SPACE TEMPERATURE FAL SUPPLY FAN SHALL START AND FULL HE	IAINTAINED BY CYCLING THE SUPPLY FAN AS RECIRCULATING UNIT LS BELOW THE UNOCCUPIED SETPOINT OF 55°F (ADJUSTABLE), EATING SHALL BE ENABLED. HEATING IS DISABLED WHEN SPACE EMPERATURE SETPOINT. THE SUPPLY FAN SHALL DE-ENERGIZE	
ANICAL COOLING IS DISABLED. IF THE U ERATURE RISES ABOVE THE UNOCCUPIEL UGH SOFTWARE), THE UNIT COOLING NIC IS IS CONFIRMED. THE UNIT OPERATES	NIT IS MONITORING SPACE TEMPERATURE AND THE SPACE O COOLING TEMPERATURE SETPOINT OF 85°F (ADJUSTABLE SHT CYCLE MODE IS ENABLED. ONCE THE SUPPLY FAN RUN WITH THE ECONOMIZER DISABLED AND SEQUENTIALLY ENABLES THE SPACE TEMPERATURE FALLS 2°F (ADJUSTABLE THROUGH COOLING TEMPERATURE SETPOINT, THE COOLING NIGHT CYCLE BLED AFTER 120 SECONDS TIME DELAY TO ALLOW FOR OOLING SEQUENCE OF OPERATION SHALL BE ENABLED/DISABLED THROUGH THE EMS.	
MANUAL SOFTWARE SELECTOR SWITCH	·	



				SUP	PLY F	AN				RETU	RN/REL	EF FAN								ONDITION						CONDITION							CONDITI				SIDE A	IR	FLECIE	RICAL					
SERVICE	LOCATION	нр	FAN Fan I Qty t					R CFM MAX	HP FA QT	FAN N FAN Y TYPE				R CFM MAX	EAT DB ("F)	E A T W D (°F)	LAT DB (°F)	LAT WB (*F)	MAX Face Vel	мАХ А.Р.D (IN	SENS. Cap. (mbh)	CAP. (MBH)	EAT DB (*F)	LAT DB (*F)	MAX FACE VE (FPM)	MAX L A.P.D (IN	TOTAL CAP. (MBH)	. EAT L/ DB D (°F) (°f	EWT B (°F)	LWT (°Г) G	PM FAC (F	MAX C VEL FPM)	MAX A.P.D (IN H20)	MAX W.P.D (FT H20	TOTAL CAP.) (MBH)	- MIN CFM	МАХ СГМ	% V/	ø/Hz N	MCA M		IGHT EM bs) PO'			BASED C
CAFETERIA	ROOF	7.5	1 A	FPF	1.5 2	2080	3500	5000	1 2	AFPF	1.0	2880	3500	5000	89	73	55	54	500	0.750	134.0	179.1	55	70	500	0.700	96.1	27 9	5 180	160 3	38 5	500	0.750	10	372.6	3500	5000	70 208	/3/60	87.0	110 4,	000 1	10 5	SZVAV	VALENT V
STORAGE	ROOF	3	1 🗛	FPF (0.8 2	2560	400	3200							78	65	57	56	500	0.750	71.9	85.2	57	70	500	0.700	44.2									400	3200	13 208	/3/60 :	33.6	45 2,	1 000	NO S	SZCV	VALENT
CLASSROOMS	ROOL	10	1 A	רפר	1.5 2	2080 .	3400	8700	2 1	ΑΓΡΓ	1.0	2560	3400	8700	83	69	54	53	500	0.750	224.5	277.5	54	70	500	0.750	154.2			-	-	-	_	_	-	3400	8700	39 208	/3/60 1	29.2	150 5,	1 000	NO	VAV	VALENT V
CLASSROOMS	ROOF	10	2 ^	FPF	1.5 2	2080	7000	13100	2 3	AFPF	1.0	2880	7000	13100	85	71	56	55	500	0.750	317.7	393.5	56	70	500	0.750	198.2	35 9	5 180	160 8	85 5	500	0.750	10	848.9	7000	13100	53 208	/3/60 2	.09.0 /	250 9,	500 1	NO	VAV	VALENT V
CLASSROOMS	ROOF	7.5	2 ^	FPF	1.5 2	2080	4000	11600	1 2	AFPF	1.0	2880	4000	11600	82	68	54	52	500	0.750	296.0	378.5	54	70	500	0.750	197.3			-	-	-	_	_	_	4000	11600	34 208	/3/60 1	86.9	225 9,	1 000	NO	VAV	VALENT V
ADMIN	KOOF	1.5	1 A	+ + + + + +	1.3 2	2560	500	1800			-	_	-	-	81	67	5.5	52	500	0.750	54.6	81.5	5.5	/0	500	0.750	39.0	54 9	5 180	150	/ 5	500	0.750	5	102.0	500	1800	28 208	/3/60 :	29.6	40 2,	1 000	NO	VAV	VALENT
GYMNASIUM (ADD/ALT)	ROOF	7.5	1 A	FPF	1.5 2	2080 :	5000	5000	3 2	AFPF	1.0	2560	5000	5000	95	78	57	56	500	0.750	129.7	186.3	57	70	500	0.750	92.7	10 9	5 180	150 3	31 5	500	0.750	10	459.0	5000	5000	100 208	/3/60 '	97.8	110 4,	000 /	NO S	SZCV	VALENT V

NOTES: 1. VAV = VARIABLE AIR VOLUME / CV = CONSTANT VOLUME.

2. ESP = EXTERNAL STATIC PRESSURE BASED ON PRESSURE REQUIRED AT AILU DUCT CONNECTION. 8. FOR TOTAL STATIC PRESSURE CALCULATIONS USE MEDIAN (CLEAN/DIRTY) FITLER AIR PRESSURE DROPS.

3. FC FORWARD CURVED, BIAF BACKWARD INCLINED AIR FOIL (DOUBLE WIDTH, DOUBLE INLET). 9. NG NATURAL GAS, HGRH HOT GAS REHEAT 4. AFPF AIRFOIL PLENUM FAN (SINGLE WIDTH, SINGLE INLET).

5. ALL FANS SHALL BE DIRECT DRIVE TYPE WITH VARIABLE SPEED DRIVE

6. PREFILTERS SHALL BE 2" THICK MERV 8 FARR 30/30 OR AS APPROVED EQUAL.

HEAT DECOVERY DEVICE SCHEDHLE

				HEA	I RECO	JVERY	DEV	ICE SCH	EDULE								ELEU	TRIC UN		EAIER	K SCH	IEDUL	.E	
				HFAI RECOV	VERY DEVICE				HEA1 REC	OVERY DEVI	ICF						SUPPLY FAN	ELECTRIC		RACTERIST				
	MAX	MAX		SUMMER CO	ONDITIONS				WINTER	CONDITIONS	5				UNIT	AREA SERVED				TCTAL		MERCENCY	ТҮРЕ	BASED ON
SERVICES	APD	FACE	SUPP			EXHAUST			SUPPLY		EXHA		F	REMARKS	UH-X		CIM RPM	V/ø/Hz		1	AMPS	POWER		(MARKEL)
RTU Nº	(IN W.C)	VELOCITY	DEVICE	FAI IAI IAI	DEVICE	EAI FAI	IAI IA	DEVICE	FAT FAT TAT TAT	DEVICE	F A 1	FAI IAI	LAI						(MB⊢)	(<w)< td=""><td></td><td></td><td></td><td></td></w)<>				
		(ГРМ)		WB DB WB (*F) (*F) (*F)			DB WE			CEM (ENTERING		WB DB	WB (*E)		1	A111 - FIRE PUMP ROOM	400 1050	208/3/60	17.1	5	14	NO	HORIZONTAL DISCHARGE	5100 SERIES
				(') (') [(')]			(') [('					<u> </u>			2	A112 — ELECIRICAL ROOM	400 1050	208/3/60	17.1	5	14	NO	HORIZONTAL DISCHARGE	5100 SERIES
1	1.00	500	3500 95	78 80.5 67.9	3500	75 62	36.0 73.	0 3500	10 9 54.8 45.5	3500	72	58 35.0	31.0								-			
3	1.00	500	3400 95	78 81.5 69.0	3400	75 62	36.0 73.	0 3400	10 9 51.7 43.2	3400	72	58 35.0	31.0		NOTES:	1. PROVIDE CUSTOM COLOR AS	SELECTED BY ARC	CHITECT						
4	1.00	500	7000 95	78 81.3 68.7	7000	75 62	86.0 73.	0 7000	10 9 52.5 43.8	7000	72	58 35.0	31.0			2. ALL UNITS SHALL BE PROVI	DED WITH A DPST	DISCONNECT	SWITCH.					
5	1.00	500	4000 95	78 80.9 68.2	4000	75 62	86.0 73.	0 4000	10 9 53.8 44.8	4000	72	58 35.0	31.0											
/	1.00	500	5000 95	/8 80.5 67.9	5000	75 62	86.0 73.	0 5000	10 9 54.8 45.5	5000	12	58 35.0	31.0											

NOTES:

1. DEVICE ENTERING OFM INDICATED IS UPSTREAM OF HEAT RECOVERY DEVICE AND EXCLUDES PURCE VOLUME. 2. PROVIDE VARIALBE SPEED DRIVES FOR ALL ENTHALPY HEAT RECOVERY DEVICES.

									SELLI	21215	IN SU		- E										
OUTDOOR		LOCAT	τιον				COOLING	HEATING	MAX CAPACITY	INDOOR C	ONDITIONS	OUTDOOR			ELEC	IRIC			INDOOR UNIT	WE	GIIT	BASED ON	MITSUBISHI
N °	SERVICE			1 1				CAPACITY	FULL LOAD				INDO			00100		EMERGENC' Power	SIZE	INDOOR	OUTDOOR		CONDENSER
(SSCU-X)							(BTUs)	(BTUs)	(TONS)	(' Г)	(⁻ ୮)	(°F)	V/ø/Hz	МСЛ	MOCP	V/ø/Hz	MCA M	DCP	(L X W X II)	UNIT	UNIT		
1	A102 - DRY STORAGE	A102	ROOF	400	0.0	410	12000	7600	1	80	67	95	208/1/60	1.4	15	208/1/60	14	5 NO	32"X19"X12"	22	73	MSZ-JP12WA-U1	MUZ-JP12WA-U1
2	59 - IECH SIORAGI	59	ROOF	320	0.0	410	18000	_	1.5	80	67	95	208/1/60	1	15	208/1/60	11	28 NO	36"X19"X12"	29	99	PKA-A18HA7	PUY-A18NKA7
3	B101 LANGUAGE SUPPORT (ALT GC 1)	B101	ROOF	320	0.0	410	27000	30000	2.5	80	67	95	208/1/60	2.73	15	208/1/60	17	50 NO	42"X29"X9"	75	135	PEAD-A30AA7	SUZ-KA30NA2
	(SSCU-X) 1 2	N° SERVICE (SSCU-X) 1 A102 - DRY STORAGE 2 59 - IECH STORAGI	N° (SSCU-X) SERVICE EVAPORATOR 1 A102 - DRY STORAGE A102 2 59 - HECH STORAGE 59	N° (SSCU-X)SERVICEEVAPORATORCONDENSER1A102 - DRY STORAGEA102ROOF259 - HECH STORAGI59ROOF	N° (SSCU-X)SERVICEMAX EVAPORATORMAX CONDENSER1A102 - DRY STORAGEA102ROOF400259 - HECH STORAGI59ROOF320	N° (SSCU-X) SERVICE EVAPORATOR CONDENSER MAX CFM MAX ESP MAX ESP	N° (SSCU-X)SERVICEMAX EVAPORATORMAX CONDENSERMAX CFMMAX ESPMAX TYPE1A102 - DRY STORAGEA102ROOF4000.0410259 - TECH STORAGI59ROOF3200.0410	N° (SSCU-X)SERVICEEVAPORATORCONDENSERMAX CFMMAX ESPREFRIGERANT TYPECAPACITY (BTUS)1A102 - DRY STORAGEA102ROOF4000.041012000259 - HECH STORAGI59ROOF3200.041018000	N° (SSCU-X) SERVICE EVAPORATOR CONDENSER MAX CFM MAX ESP REFRIGERANT TYPE CAPACITY (BTUs) CAPACITY (BTUs) 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 2 59 - IFCH STORAGI 59 ROOF 320 0.0 410 18000 -	OUTDOOR N° (SSCU-X)LOCATIONMAX MAX CONDENSERMAX MAX CFMREFRIGERANT TYPECOOLING CAPACITY (BTUS)HIEATING CAPACITY TULL LOAD (TULL LOAD (TONS)1A102 - DRY STORAGEA102ROOF4000.04101200076001259 - HECH STORAGI59ROOF3200.041018000-1.5	OUTDOOR N° (SSCU-X) SERVICE LOCATION MAX EVAPORATOR MAX CONDENSER MAX CFM REFRIGERANT ESP COOLING CAPACITY (BTUS) IIEATING CAPACITY (BTUS) MAX CAPACITY FULL LOAD INDOOR COULING CAPACITY (BTUS) 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 2 59 - IH CH STORAGI 59 ROOF 320 0.0 410 18000 - 1.5 80	OUTDOOR N° (SSCU-X)BERVICELOCATIONMAX EVAPORATORMAX CONDENSERMAX CFMREFRIGERANT CFMCOOLING CAPACITY (BTUS)IIEATING CAPACITY (BTUS)MAX CAPACITY FULL LOAD (BTUS)INDOOR CONDITIONS CAPACITY (BTUS)1A102 - DRY STORAGEA102ROOF4000.0410120007600180067259 - HICH STORAGI59ROOF3200.041018000-1.58067	OUTDOOR N° (SSCU-X) SERVICE LOCATION MAX EVAPORATOR MAX CONDENSER MAX CFM REFRIGERANT TYPE COOLING CAPACITY (BTUs) IIEATING CAPACITY (BTUs) MAX CAPACITY TULL LOAD INDOOR CONDITIONS OUTDOOR 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 2 59 - HECH STORAGI 59 ROOF 320 0.0 410 18000 - 1.5 80 67 95	OUTDOOR N° (SSCU-X) SERVICE LOCATION MAX EVAPORATOR MAX CONDENSER MAX CFM REFRIGERANT TYPE COOLING CAPACITY (BTUs) IIEATING CAPACITY (BTUs) MAX CAPACITY (DUL LOAD (TONS) INDOOR CONDITIONS OUTDOOR OUTDOOR 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 208/1/60 2 59 - HICH SIORAGI 59 ROOF 320 0.0 410 18000 - 1.5 80 67 95 208/1/60	OUTDOOR N° (SSCU-X) SERVICE LOCATION MAX EVAPORATOR MAX CFM RAX ESP REFRIGERANT TYPE COOLING CAPACITY (BTUS) IIEATING CAPACITY (BTUS) MAX CAPACITY (DUL LOAD (TONS) INDOOR CONDITIONS OUTDOOR INDOOR UNIT 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 208/1/60 1.4 2 59 - HICH STORAGI 59 ROOF 320 0.0 410 18000 - 1.5 80 67 95 208/1/60 1.4	OUTDOOR N° (SSCU-X) SERVICE LOCATION MAX EVAPORATOR MAX CFM MAX CFM REFRIGERAN TYPE COOLING CAPACITY (BTUS) IIEATING CAPACITY (BTUS) MAX CAPACITY INDOOR CONDITIONS OUTDOOR OUTDOOR IIEAT DB INDOOR UNIT INDOOR UNIT 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 208/1/60 1.4 15 2 59 - IECH STORAGE 59 ROOF 320 0.0 410 18000 - 1.5 80 67 95 208/1/60 1.4 15	OUTDOOR N° (SSCU-X) LOCATION MAX EVAPORATOR LOCATION MAX CFM REFRIGERANT TYPE COOLING CAPACITY (BTUS) IIEATING CAPACITY (BTUS) MAX CAPACITY FULL LOAD INDOOR CONDITIONS OUTDOOR ELECTRIC 1 A102 - DRY STORAGE A102 ROOF 400 0.0 A100 12000 7600 1 80 67 95 208/1/60 1.4 15 208/1/60 2 59 - ILCH SIORAGI 59 ROOF 320 0.0 410 18000 - 1.5 80 67 95 208/1/60 1.4 15 208/1/60	OUTDOOR N° (SSCU-X) LOCATION MAX CFM MAX CFM MAX CFM REFRIGERAN CFM COOLING CAPACITY (BTUS) IIEATING CAPACITY (BTUS) MAX CAPACITY (BTUS) INDOOR ONDITIONS OUTDOOR ELECTRIC ELECTRIC MAX MAX MAX CAPACITY (BTUS) MAX CAPACITY (BTUS) INDOOR ONDITIONS OUTDOOR UNIT OUTDOOR UNIT OUTDOOR UNIT 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 208/1/60 1.4 15 208/1/60 1.4 12 208/1/60 - 1.4 15 208/1/60 1.4 12 208/1/60 - 1.4 15 208/1/60 1.4 12 208/1/60 - 1.4 15 208/1/60 1.4 12 208/1/60 - 1.4 15 208/1/60 1.4 12 208/1/60 - 1.4 15 208/1/60 1.4 12 208/1/60 - 1.4 15 208/1/60 1.4 12	OUTDOOR N° (SSU-X) LOCATION BEARDICE LOCATION CONDENSER MAX CFM AMA CFM REFRIGERANT TYPE COOLING CAPACITY (BTUS) IIEATING CAPACITY (BTUS) MAX CAPACITY (TONS) INDOOR CONDITIONS OUTDOOR ELECTRIC OUTDOOR UNIT OUTDOO	OUTDOOR N° (SSCU-X) LOCATION N° (SSCU-X) ABX CFM ABX CFM REFRIGERAN TYPE COOLING CAPACITY (BTUS) IMAX CAPACITY (BTUS) INDOOR ONITIONS OUTDOOR ELECTRIC OUTDOOR UNIT OUTDOOR UNIT	OUTDOOR N° (SSU-X) LOCATION MAX EVAPORATOR LOCATION MAX EVAPORATOR MAX EVAPORTOR EVAPORATOR OUTDOOR EAT DB ('f') OUTDOOR EAT DB ('f') OUTDOOR UNIT EMERGENCY V/ø/Hz MAX MAX MAX EVAPORTOR MAX EVAPORTOR 1 4102 ROOF 410 12000 7600 1 80 67 95 208/1/60 1.4 15 NO 32"X19"X12" 22 2 9 - IFCH SIORAGI 59 ROOF 30 410 18000 - 1.5 80 67 95 208/1/60 1 15 NO 36"X19"X12" 29	OUTDOOR N° (SSU-X) LOCATION LOCATION MAX RFRIGERAN TYPE COLING CAPACITY (BTUS) IMAX CAPACITY (BTUS) INDOOR CONDITIONS OUTDOOR (TO COLING CONDITIONS OUTDOOR (TO COLING CONDITIONS OUTDOOR CONDITIONS <td>N° SERVICE EVAPORATOR CONDENSER MAX CFM MAX CFM CAPACITY CFM CAPACITY (BTUs) CLL LOAD (TONS) CAT DB (T) CAT DB (T) INDOOR UNIT OUTDOOR UNIT EMERGENCT POWER SIZE (L X W X II) INDOOR OUTDOOR UNIT OUTDOOR UNIT MAX PORATOR 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 208/1/60 1.4 15 NO 32"X19"X12" 22 73 MSZ-JP12WA-U1 2 99 IECH STORAGE 59 ROOF 30" 410 18000 - 1.5 80 67 95 208/1/60 1 15 NO 32"X19"X12" 22 73 MSZ-JP12WA-U1</td>	N° SERVICE EVAPORATOR CONDENSER MAX CFM MAX CFM CAPACITY CFM CAPACITY (BTUs) CLL LOAD (TONS) CAT DB (T) CAT DB (T) INDOOR UNIT OUTDOOR UNIT EMERGENCT POWER SIZE (L X W X II) INDOOR OUTDOOR UNIT OUTDOOR UNIT MAX PORATOR 1 A102 - DRY STORAGE A102 ROOF 400 0.0 410 12000 7600 1 80 67 95 208/1/60 1.4 15 NO 32"X19"X12" 22 73 MSZ-JP12WA-U1 2 99 IECH STORAGE 59 ROOF 30" 410 18000 - 1.5 80 67 95 208/1/60 1 15 NO 32"X19"X12" 22 73 MSZ-JP12WA-U1

NOTES:

1. BASED ON MITSUBISHI INVERTER DRIVEN COMPRESSOR R410A REFRIGERANT AND DEHUMIDIFICATION MODE OR EQUAL 2. IOW AMBIENT CONTROL (COOLING TO 0'F OUTDOOR AIR TEMPERATURE) AND WIND BAFFLE.

3. SPLIT SYSTEMS LOCATED IN IDF/MDF SPACES SHALL HAVE TEMPERATURE SENSOR WITH HI-TEMP ALARM FURNISHED BY THE ATC CONTRACTOR.

4. OUTDOOR UNITS SHALL BE PROVIDED WITH HAIL GUARDS 5. ALL SPLIT SYSTEMS SHALL BE PROVIDED WITH MAXIBLUE ADVANCED BLUE DIAMOND MINI CONDENSATE PUMP W/ RESEVOIR & SENSOR (INTEGRAL TO UNIT).

				PU	MP SC	CHEDUL	E		
No. P-	SERVICE	GPM	FT OF HEAD	HP	RPM	SIZE (SxDxI)	ELECT. CHAR. V/ø/Hz	REMARKS	BASED ON
	PREHEAT COIL RTU-1	38	15	1/4	VARIABLE	1½ x 1½	115/1/60	I IN-LINE CIRCULATOR	TACO MODEL VR3452
4	PREHEAT COIL RTU-1 (STANDBY)	38	15	1/4	VARIABLE	$\frac{1}{1}\frac{1}{2} \times \frac{1}{2}$	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
5	PREHEAT COIL RTU-4	85	15	1/4	VARIABLE	$\frac{11}{12} \times \frac{11}{2}$	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
6	PREHEAT COIL RTU-4 (STANDBY)	85	15	1/4	VARIABLE	1½ x 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
7	PREHEAT COIL RTU-6	7	15	1/4	VARIABLE	1½ x 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
8	PREHEAT COIL RTU-6 (STANDBY)	7	15	1/4	VARIABLE	1½ × 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
9	PREHEAT COIL RTU-7	31	15	1/4	VARIABLE	1½ x 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
10	PREHEAT COIL RTU-7 (STANDBY)	31	15	1/4	VARIABLE	1½ × 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
11	PREHEAT COIL MAU-1	13	15	1/4	VARIABLE	1½ × 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452
12	PREHEAT COIL MAU-1 (STANDBY)	13	15	1/4	VARIABLE	1½ x 1½	115/1/60	IN-LINE CIRCULATOR	TACO MODEL VR3452

NOTES: 1. LOCATE PUMPS IN CEILING SPACE BELOW ASSOCIATED ROOF TOP UNIT

						CHARA	CTERISTIC	S				
NIT AREA SERVED	INTERLOCK	LOCATION		ESP			M01	OR	FIFC	RICAL	1451	BASED ON
-X		TOCATION	CEM	(IN 1120)	FRPM	TYPE	ΗΡ	IAAI	V/ø/H7	EMERGENCY POWER		(GREENHECK)
9 A105 - KITCHEN	MAU-1	ROOL	3038	2.00	1571	DIRECT	2	ЕСМ	208/3/60	NO	UPBLAST CENTRIFUGAL	USGE-18011P-
10 A106 - LOCKER ROOM108 - TOILET, A-109 WASHER/DRYER STORAGE	SW W/ ID	ROOF	250	0.50	15/4	DIRECT	1/10	ECM	115/1/60	NO	UPHIASI CENTRIFUGAL	CUF-080-V0
11 A111 FIRE PUMP ROOM	TSTAT	ROOF	250	0.50	1574	DIRECT	1/10	ЕСМ	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE 080 V
12 A112 - ELECTRICAL ROOM	TSTAT	ROOF	250	0.50	1574	DIRECT	1/10	ЕСМ	115/1/60	NO	UPBLAST CENTRIFUGAL	CUE-080-V
1.3 D102 - MENS HC TOILET	SW W/ ID	D102	100	0.62	900	DIRECT	48W	900	115/1/60	NO	CEILING EXHAUSI	SP-A200
14 D103 WOMENS HC TOILET	SW W/ TD	D103	100	0.62	900	DIRECT	48W	ODP	115/1/60	NO	CEILING EXHAUST	SP A200
 TES: 1. TSTAT=THERMOSTAT; HSTAT=HUMIDISTAT; SW=SWITCH; SP=STAT 2. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH FOR ALL EXHA 3. REFER TO CONTROL DIAGRAMS FOR SPECIFIC SEQUENCES OF OF 	UST FANS, COORDI	NATING REQUIR	EMENTS A		CKS WIT	I ELECTRI	ICAL					

		SUPF	'LY FAN	ELECTRIC	COIL C	HARACTER	RISTICS					
UNIT CH-XX	AREA SERVED	CEN	крм	V/ø/Hz	-0-AI CAP.	ТОТАЦ САР.	AMPS	EMER POWER		NEIGURATIO	N	TYP
				V/2/HZ	(MBH)	(KW)	AW-3	FUWER	INLET	DISCHARGE	FLOW	
									•		•	
1	A107 - OFFICE	175	600	120/1/60	5.1	1.5	12.5	NO	BOTTOM	воттом	DOWN	CEILING M

NOTES: 1. PROVIDE CUSTOM COLOR AS SELECTED BY ARCHITECT 2. ALL UNITS SHALL BE PROVIDED WITH A DPST DISCONNECT SWITCH.

VAR	RIABLE AIR VOLU	JME TERN	AINAL COI	NTROL UN	NIT			DUCT MOUN	TED	ELEC	TRIC	HEATI	NG CO	DIL SCHED	ULE			
UNIT INTERLOCK	SERVICE		PRIMARY AIR (C MIN MAX MIN CLG CLG HTG	MAX MAX APD	BASED ON TITUS	No. EHC-x	INTERLOCK	SERVICE	CFM	EAT (°F)	LAT (°F)	TE OTAL CAP 1 (MBH)			MAX APD	MAX FACE VELOCITY (fpm)	COIL SIZE WxH	BASED ON GREENHECK
	C102 – TITLE ONE OFFICE C103 – GUIDANCE		425750425425750425		DESV-09 DESV-09	EHC-1 EHC-2	TSTAT TSTAT	O/A INTAKE - LANGUAGE SUPPORT B101 VRF SUPPLY RE-HEAT - LANGUAGE SUPPORT B101	350 875	10 55	40 74	11.3 18.0	3.5 5.5	9.7208/3/6015.3208/3/60	0 0.20	700 700	12 x 12 20 x 10	IDHC IDHC

OOFTOP	UNIT	SCHEDULE

7. FINAL FILTERS SHALL BE 4" THICK MERV 13 FARR OPTI-PAC OR AS APPROVED EQUAL.

10. ALL NATURAL GAS BURNERS SHALL HAVE A MINIMUM OF 12:1 TURNDOWN 11. ALL ROOF TOP UNITS ARE TO HAVE KEYED OR TAMPER PROOF LATCHES

12. ALL ROOF TOP UNITS SHALL HAVE FULL PIANO HINGES ON ALL ACCESS DOORS

COLLE SVOTEM COLLEDILLE

BASED ON (MARKEL) MOUNTED 3380 SERIES FLECTRIC LINIT HEATER SCHEDILLE

13. ALL ROOF TOP UNITS CURBS AND PLENUM CHAMBERS ARE TO BE FULLY INSULATED 14. ALL ROOF TOP UNIT CONDENSATE DRAINS SHALL BE PVC 15. DESIGN COOLING EAT CONDITIONS: 95'F DB/78'F WB

16. DESIGN HEATING EAT CONDITIONS: 10'F DB/9'F WB

MECHANICAL EQUIPMENT NOTES

1. <u>KITCHEN MAKEUP AIR UNIT, MAU-1</u>

<u>GENERAL:</u> SERVES KITCHEN HOODS NO.1 100% OUTSIDE AIR HOT WATER HEATING 2" THROWAWAY FILTERS, OUTDOOR/CURB MOUNTED MOTORIZED INTAKE DAMPER ELECTRICAL CONTROL CENTER MAX WEIGHT: 700 LBS.

SUPPLY AIR FAN: BOTTOM DISCHARGE 2430 CFM @ 1.5" ESP, 1874 RPM 2 HP MOTOR, MCA=9.8A, MOP=15A PREMIUM EFFICIENCY MOTOR 208V/3ø/60HZ

HOT WATER COIL: 2430 CFM 10°F EAT, 82°F LAT 180°F EWT, 150°F LWT 13 GPM, 1 FT H20 MAX WPD 189.4 MBH

ARRANGEMENT: GREENHECK MODEL MSX-P115-H12-MF OR AS APPROVED EQUAL

AIR DEVICE SCHEDULE									
No. Sx	CFM MAX	NECK SIZE	COLLAR ø SIZE	MAX NC	TYPE (SEE SPEC.)				
					(,				
	LY AIR								
<u>S1</u>	200	9x9	8"ø	18	TITUS TDV				
S2	325	12x12	10 " ø	18	TITUS TDV				
<u>S3</u>	485	15x15	12"ø	18	TITUS TDV				
<u>S4</u>	700	18x18	14"ø	18	TITUS TDV				
<u>S5</u>	100	6x6	6"ø	18	TITUS TDCA				
<u>S6</u>	170	9x9	8"ø	18	TITUS TDCA				
<u>S7</u>	325	12x12	10"ø	18	TITUS TDCA				
<u>S8</u>	485	15x15	12"ø	18	TITUS TDCA				
S9 S10	700	18x18	14"ø	18	TITUS TDCA				
S10 S11	100 170	6x6	_	18	TITUS TDCA				
S11 S12		9x9		18 18	TITUS TDCA TITUS TDCA				
S12	325 485	12x12 15x15		18	TITUS TDCA				
S14	700	18x18		18	TITUS TDCA				
S15	125	6x6		18	TITUS TDCA				
S15	230	9x9	0 Ø 8"ø	18	TITUS TDC				
S17	400	12x12	م م 10"ø	18	TITUS TDC				
S17	600	12x12 15x15	10 ø 12"ø	18	TITUS TDC				
S10 S19	800	18x18	1∠ø 14"ø	18	TITUS TDC				
S20	1000	21x21	14 ø 16"ø	18	TITUS TDC				
<u>S20</u> S21	125	6x6	<u> </u>	18	TITUS TDC				
S21	230	9x9	_	18	TITUS TDC				
S22	400	12x12	_	18	TITUS TDC				
<u> </u>	600	15x12	_	18	TITUS TDC				
S24 S25	800	18x18	_	18	TITUS TDC				
 S26	1000	21x21	_	18	TITUS TDC				
S20	200	12x12/8"ø	_	18	TITUS TDC				
S28	50	12x12/6"ø	_	18	TITUS TDC				
S20	270	10"ø	_	18	TITUS XC-310				
S30	390	10 ø	_	18	TITUS XC-310				
S31	500	14"ø	_	25	TITUS XC-310				
S32	800	18"ø	_	25	TITUS XC-310				
S33	1000	20"ø	_	25	TITUS XC-310				
S34	2000	30"ø	_	25	TITUS XC-310				
S35	2800	36"ø	_	25	TITUS XC-310				
S36	180	10x6	_	20	TITUS S300FS				
S37	250	14x6	_	20	TITUS S300FS				
S38	450	18x8	_	20	TITUS S300FS				
RETUR	RN AIR	DEVICE							
R1	100	6x6	-	18	TITUS 350RL				
	1 700	10x10	-	18	TITUS 350RL				
R2	300	10210		10					
R2 R3	300 450	12x12	-	18	TITUS 350RL				
R2 R3 R4			_ _						
R2 R3 R4 R5	450 800 1000	12x12	_ _ _	18	TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6	450 800	12x12 16x16	- - - -	18 18	TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7	450 800 1000 1300 1660	12x12 16x16 18x18 20x20 22x22	_	18 18 18 18 18 18	TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8	450 800 1000 1300 1660 3300	12x12 16x16 18x18 20x20 22x22 46x22		18 18 18 18 18 18 18	TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9	450 800 1000 1300 1660 3300 650	12x12 16x16 18x18 20x20 22x22 46x22 18x12	_	18 18 18 18 18 18 18 18	TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R5 R5 R7 R7 R8 R9 R10	450 800 1000 1300 1660 3300 650 1000	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12	_	18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18	TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11	450 800 1000 1300 1660 3300 650 1000 1250	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12	-	18 18	TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12	450 800 1000 1300 1660 3300 650 1000 1250 3300	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22	-	18 18	TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13	450 800 1000 1300 1660 3300 650 1000 1250 3300 900	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10	-	18 18	TITUS 350RL TITUS 50F				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22	-	18 18	TITUS 350RL TITUS 50F TITUS 50F				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22	-	18 18	TITUS 350RL TITUS 50F TITUS 50F				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20	-	18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50F				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20	-	18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20 24x12	-	18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R14 R15 R16 R17 R18 R19	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24	-	18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R14 R15 R16 R17 R18 R19 R20	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200 1700	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x12 24x24 36x24	-	18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R14 R15 R16 R17 R18 R19 R20 R21	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200 1700 2600	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36		18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS TITUS 33RS				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R16 R17 R18 R19 R20 R21 R22	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200 1200 1200 3100	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36 42x36	-	18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS TITUS 33RS				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R14 R15 R16 R17 R18 R19 R19 R20 R21 R22 R23	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 1900 4000 1600 3400 700 1200 1200 1200 3100 3500	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36 42x36 48x36		18 18	TITUS350RLTITUS350RLTITUS350RLTITUS350RLTITUS350RLTITUS350RLTITUS350RLTITUS350RLTITUS350RLTITUS50FTITUS50FTITUS50FFTITUS50FFTITUS50FFTITUS50FFTITUS50FFTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RSTITUS33RS				
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R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R17 R18 R19 R20 R21 R22 R23 R24 R25 R24 R25 EXHAU E1 E2	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1900 4000 1900 4000 1900 4000 1900 4000 1900 3400 700 1200 1200 1200 1200 3100 3500 3600 1300 JST AIR 100 150	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36 42x36 42x36 48x36 42x42 20x20 DEVICE 6x6 8x6		18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R23 R24 R25 EXHAI E1 E2 E3	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200 1700 2600 3100 3500 3500 3500 3500 3500 1300 JST AIR 100 150 300	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36 42x36 42x36 48x36 42x42 20x20 DEVICE 6x6 8x6 12x8		18 18	TITUS 350RL TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R23 R24 R25 EXHAU E1 E2 E3 E4	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200 1700 2600 3100 3500 3600 1300 3500 3500 3500 3500 3600 1300 3500 3600 1300 3500 3600 1300 3500 3600 1300	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x10 22x22 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x36 42x36 42x36 42x36 42x42 20x20 DEVICE 6x6 8x6 12x8 10x10		18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 33RS TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R23 R24 R25 EXHAI E1 E2 E3 E4 E5	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1600 3400 700 1200 1600 3400 700 1200 1200 1200 3400 3500 3600 1300 3500 3600 1300 3500 3600 1300 3500 3600 1300 3500 3600 1300 325 450	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x20 46x22 22x20 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36 42x42 20x20 DEVICE 6x6 8x6 12x8 10x10 12x12		18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL TITUS 350RL				
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R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R17 R18 R19 R20 R21 R22 R23 R24 R25 E2 E2 E3 E2 E3 E4 E5 E6 E7	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1900 4000 1900 4000 1900 4000 1900 4000 1900 3400 700 1200 1200 1200 3400 3400 700 1200 1200 1200 1200 1200 1200 150 3500 3500 3500 3500 3500 3500 350	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x20 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x36 42x36 48x36 42x42 20x20 DEVICE 6x6 8x6 12x8 10x10 12x12 18x12 16x16		18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 350RL TITUS 350RL				
R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R17 R18 R19 R20 R21 R22 R23 R24 R23 R24 R25 EXHAU E1 E2 E3 E4 E5 E6	450 800 1000 1300 1660 3300 650 1000 1250 3300 900 1900 4000 1900 4000 1900 4000 1900 4000 1900 4000 1900 4000 100 3400 700 1200 1200 1200 1200 3100 3500 3600 1300 3500 3500 3500 3500 3500 3500 35	12x12 16x16 18x18 20x20 22x22 46x22 18x12 30x12 36x12 46x22 22x20 46x22 22x10 22x22 46x22 20x20 42x20 24x12 24x24 36x24 36x36 42x36 48x36 42x42 20x20 DEVICE 6x6 8x6 12x8 10x10 12x12 18x12		18 18	TITUS 350RL TITUS 50F TITUS 50F TITUS 50FF TITUS 50FF TITUS 50FF TITUS 33RS TITUS 350RL				

NOTES:

1. ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE SHOWN ON THE DRAWINGS. 2. ALL SUPPLY AIR REGISTERS SHALL BE DOUBLE DEFLECTION

WITH FRONT BLADES PARALLEL TO THE SHORT DIMENSION (VERTICAL). 3. PROVIDE 24x24 OR 48x24 MODULE FOR ALL LAY-IN SUPPLY, RETURN AND EXHAUST AIR DEVICES. TRIM MODULE AS

NECESSARY TO FIT INTO GRID IF LESS THAN 24x24 OR 48x24 IS AVAILABLE. 4. EGGCRATE REGISTERS SHALL HAVE ½"x½"x1" DEEP ALUMINUM

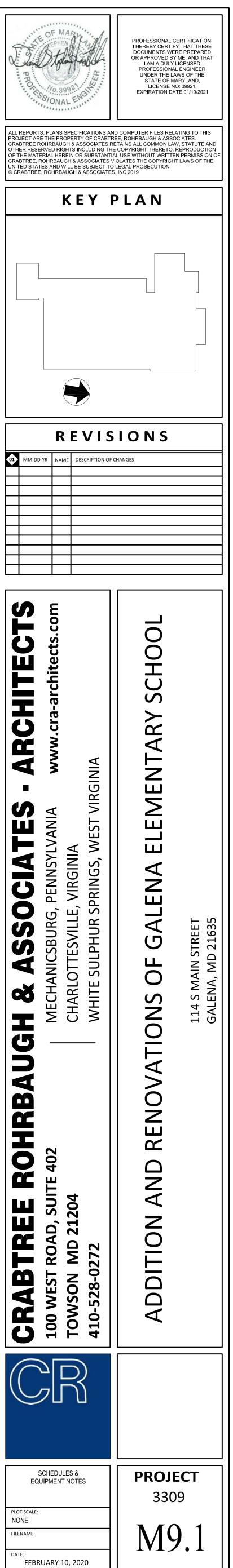
CORES. 5. EXHAUST REGISTERS CONNECTED TO STAINLESS STEEL DUCTWORK SHALL BE CONSTRUCTED OF STAINLESS STEEL

6. FOR SUPPLY AIR DEVICES CONNECTED TO THE BOTTOM OF BRANCH DUCTS (ie SERVING MORE THAN ONE AIR DEVICE) PROVIDE DAMPER WITH GRID, TITUS AG-65 OR EQUAL.

7. NOT ALL AIR DEVICES SCHEDULED MAY BE USED. 8. COLLAR SIZE REFERS TO RUNNOUT CONNECTION TO SOUND LINED PLENUM BOX FABRICATED BY THE SHEET METAL CONTRACTOR CONNECTING TO THE DIFFUSER NECK. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

9. PROVIDE AIR EXTRACTOR FOR ALL SIDEWALL SUPPLY REGISTERS. 10. PROVIDE ALUMINUM CONSTRUCTION FOR ALL AIR DEVICES LOCATED IN LOCKER ROOMS, KITCHEN, ROOMS WITH SHOWERS AND ALL SCIENCE LABS.

11. ALL TDCA TYPE DIFFUSERS SHALL BE PROVIDED WITH ADJUSTABLE VANES, ACCESSIBLE FROM THE DIFFUSER FACE, WITH THE DISCHARGE PATTERN SET TO THE VERTICAL POSITION.





RTU-X	SERVICE
1	A101 CAFETERIA
1	A105 KITCHEN
1	A106 LOCKER
1	A107 OFFICE
2	EX 71 – DISTRICT STORAGE
3	EX 47 - TEACHER SPEC
3	EX 46 - FAC LOUNGE
3	EX 37 - 1ST GRADE
3	EX 36 - PRE-K
3	EX 32 - PRE-K
3	EX 31 - SP ED
3	EX 28 - MUSIC EX 29 - PRACTICE RM
3	EX 30 - PRACTICE RM
5	LA SU - FRACTICE RM
4	EX 80 – KINDERGARTEN
4	EX 81 – 3RD GRADE
4	EX 82 – 3RD GRADE
4	EX 83 — 5TH GRADE
4	EX 84 – 4TH GRADE
4	EX 76 – 4TH GRADE
4	EX 77 – 5TH GRADE
4	EX 66 - ELL
4	EX 65 – 2ND GRADE EX 61 – SP ED
4	EX 59 - TECH STORAGE
4	EX 60 - TECH OFFICE
4	EX 54 - 1ST GRADE
4	EX 79 – KINDERGARTEN
4	EX C101 - MEDIA CENTER
4	C102 - TITLE 1 OFFICE
4	C103 - GUIDANCE OFFICE
-	
5 5	EX 52 – 1ST GRADE EX D101 – VEST
5	EX 53 - SOC WORKER
5	EX 58 - 3RD GRADE
5	EX 62 - 2ND GRADE
5	EX 64 - ART
5	EX 85 - SP ED
5	EX 69 - GUCO
5	EX 72 – 4TH GRADE
5	EX 73 - STORAGE
5	EX 74 - TITLE 1
-	
6	EX 41 - MAIN OFFICE
6	EX 42 - HEALTH
6	EX 43 - ISS
6 6	EX 44 - PRINCIPAL EX 45 - CONF RM
6	EX 45 - CONF RM
0	
7	E101 - PLATFORM

					001	IEDULE		1	2	3	4
Az (ft ²		AzRa (CFM)	PEOPLE Pz (#)		PzRp (CFM)	BREATHING ZONE (Vbz)	DIST EFF	0/A Rqd	EX S/A	S/A DESIGN	O/A TO SPACE
) (CFM/1		00.00	(CFM/pp)	(CFM)	(AzRa+PzRp)	(Ez)	(Vbz/Ez)	(Vpz)	(Vpz)	SFACE
274	5 0.18	494	RTU-1 (275	70% O/A) 7.5	2063	2557	0.8	3196	-	4575	3203
734			6	7.5	45	133	0.8	166		325	228
73	N	0	1	0	0	0	0.8	0	-	50	35
58	0.06	3	1	5	5	8	0.8	11	-	50	35
		5		0.50% 0.41	\ \		Total	3373	500	0	3500
217	0 0	0		2.5% 0/A)	0	0.8	0	3200		400
217		0	0	0	0	0	Total	0	3200		400
			RTU-3 (39% O/A)	<i>2</i> 2						
812	0.12	97	21	10	210	307	0.8	384	1400		547
812			21	10	210	307	0.8	384	1400	-	547
800	6		20	10	200	296 296	0.8	370 370	1300		508 508
670			17	10	170	250	0.8	313	1000	_	308
280			5	10	50	84	0.8	105	300		117
115			41	10	410	479	0.8	599	1600	-	625
125	0.06	8	2	10	20	28	0.8	34	200		78
125	0.06	8	2	10	20	28	0.8	34	200		78
				570/ 0 / ·)			Total	2594	870	0	3400
100	0.12	120	RTU-4 (25	53% O/A)	250	370	0.8	463	1000	-	534
975			25	10	250	367	0.8	463	1000	_	534
975			25	10	250	367	0.8	459	1000	-	534
905			23	10	230	339	0.8	423	900		481
715	0.12	86	18	10	180	266	0.8	332	700	—	374
715	0	Accession and a	18	10	180	266	0.8	332	700		374
960		a second and as	25	10	250	365	0.8	457	1420	-	759
250			3 19	5	15	30 276	0.8	38	250 700	-	134
275			8	10	190 80	113	0.8	346 141	350	-	374 187
150		0	0	0	0	0	0.8	0	150	-	80
120	0.06	7	1	5	5	12	0.8	15	150	-	80
760	0.12	91	19	10	190	281	0.8	352	750	_	401
102			26	10	260	382	0.8	478	1000	-	534
235			60	10	600	883	0.8	1103	2280	-	1218
385			3	5	15 15	38 38	0.8	48 48	-	375 375	200
303	0.00	23	5	5	15	50	Total	100/2500	1310		7000
			RTU-5 (34% O/A)			Toru	0102	1010		,,,,,,
872	0.12	105	22	10	220	325	0.8	406	1700		586
70	0.06	4	1	0	0	4	0.8	5	150	-	52
181			2	5	10	21	0.8	26	350	-	121
820			21	10	210	308	0.8	386	1550	=	534
690 760	o		18 19	10	180 190	263 327	0.8	329 409	1300		448 483
315			8	10	80	118	0.8	147	600		207
435			11	10	110	162	0.8	203	800		276
720	0.12	86	18	10	180	266	0.8	333	1300	-	448
185		0	0	0	0	0	0.8	0	150		52
129	0.12	155	33	10	330	485	0.8	606	2300	-	793
			RTIL-6 (28% O/A)			Total	2849	1160	0	4000
470	0.06	28	14	28% 0/A) 5	70	98	0.8	123	500	-	139
165			3	10	30	60	0.8	75	350	-	97
105	0.06	6	2	5	10	1 6	0.8	20	200		56
205			4	5	20	32	0.8	40	250	-	69
170			10	5	50	60	0.8	75	300	<u></u>	83
100	0.12	12	2	5	10	22	0.8	28	200	-	56
			RTII-7 (100% 0/A))		Total	361	180	U	500
	1		2			303	0.8	378		380	380
875	0.06	5.5	2.5	1 (1)	1.00		1.0	2/0		1 200 1	
875 403-			25 305	10	250 2288	2530	0.8	3162	-	4620	4620





<u>GENERAL NOTES:</u> (PLUMBING)

- A. COORDINATE NEW WORK BETWEEN ALL DISCIPLINES.
- B. REFER TO SECTIONS ON ARCHITECTURAL AND MECHANICAL DRAWINGS FOR PIPE ROUTING THROUGH THE FACILITY.
- C. CONDENSATE FROM HVAC EQUIPMENT COILS SHALL BE PIPED TO THE STORM DRAIN SYSTEM PIPING.
- COORDINATE PLUMBING PIPING ENCLOSURES WITH ARCHITECTURAL DRAWINGS PRIOR TO SETTING PIPING D. BELOW SLABS.
- COORDINATE FLOOR DRAIN AND OPEN HUB DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PLACEMENT F PRIOR TO SETTING FLOOR DRAINS. DRAINS SHALL BE LOCATED AS CLOSE TO EQUIPMENT DRAIN POINTS AS POSSIBLE.
- F. FIELD VERIFY PIPING MATERIALS AND SIZES PRIOR TO CONNECTION THERETO.
- G. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEM BRANCH LINES SERVING TWO OR MORE FIXTURES.
- H. INSTALL PIPING TO ALLOW ACCESS TO VALVES.
- J. WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- K. ITEMS SUCH AS ACCESS DOORS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- ALL PLUMBING FIXTURES SHALL HAVE A MINIMUM AIR GAP FROM THE LOWEST END OF A POTABLE WATER OUTLET TO THE FLOOD RIM OR LINE OF THE FIXTURE INTO WHICH IT DISCHARGES. THE AIR GAP SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF A POTABLE WATER OUTLET UNLESS THE OUTLET IS A DISTANCE LESS THAN 3 TIMES THE EFFECTIVE OPENING AWAY FROM A WALL OR SIMILAR VERTICAL SURFACE IN WHICH CASE THE MINIMUM REQUIRED AIR GAP SHALL BE 3 TIMES THE EFFECTIVE OPENING OF THE OUTLET.
- M. FIXTURES SUBJECT TO INTERMITTENT OR CONTINUOUS PRESSURE BACK-SIPHONAGE SHALL BE PROVIDED WITH A BACKFLOW PREVENTION DEVICE.
- N. FIXTURES WHICH DISCHARGE INDIRECTLY INTO A FLOOR DRAIN OR FLOOR SINK SHALL DISCHARGE WITH AN AIR GAP EQUAL TO TWICE THE DIAMETER OF THE FIXTURE DISCHARGE PIPE.
- 0. COORDINATE SETTING OF KITCHEN FLOOR SINKS AND FLOOR DRAINS WITH LOCAL PLUMBING INSPECTOR.
- P. ALL PIPING NOT INDICATED IN CHASES SHALL BE LOCATED ABOVE CEILING AS HIGH AS POSSIBLE. COORDINATE ROUTING OF PIPING WITH OTHER DISCIPLINES.
- Q. REFER TO ALL ARCHITECTURAL DRAWINGS FOR RATED WALL ASSEMBLY LOCA
- R. ALL COMPONENTS OF THE DOMESTIC WATER SYSTEMS SHALL BE NSF-61
- S. INSTALL DIELECTRIC FITTINGS IN ABOVEGROUND AND BELOWGROUND PIPING
- METAL PIPING AND TUBING. DIELECTRIC UNIONS AND COUPLINGS ARE PROHI
- T. FLOOR DRAINS INSTALLED IN TILE FLOORS SHALL HAVE SQUARE STRAINERS

<u>KITCHEN NOTES:</u> (PLUMBING)

- ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO FOOD SERVICE FIXTUR ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL PLUMBING REQUIREME
- 2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND I POSITIONS, HEIGHTS AND LOAD REQUIREMENTS. DIMENSIONS SHOWN ARE F FINISHED WALLS, VERIFY WALL PARTITION LOCATIONS WITH ARCHITECTURAL
- FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY PLUMBING CONTRACT MATERIALS SUCH AS, STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPI
- PROPER OPERATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AI 4. PLUMBING CONTRACTOR (P.C.), OR EQUIVALENT, SHALL FURNISH AND INSTAL A. ALL WATER AND WASTE SERVICE TO POINT OF ROUGH-IN AS SHOWI
 - STUB 4" OUT OF WALLS AT HEIGHT INDICATED FROM FINISHED FLOC FLOOR ROUGH-INS TO STUB UP 2" ABOVE FINISHED FLOOR OR CU OPENINGS/PENETRATIONS ARE TO BE SEALED WATERTIGHT.
 - B. ALL WASTE LINES, DIRECT OR INDIRECT, EXCEPT AS NOTED. MINIMUI INDICATED ON PLAN REGARDLESS OF CONNECTION SIZE, AND SHALL DRAIN LINES AS HIGH AS POSSIBLE ABOVE FLOOR FOR SANITATION LINES SHALL HAVE ADEQUATE CLEAN-OUT PROVISIONS.
 - C. PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHEF OTHERWISE NOTED IN ALL FOOD SERVICE AREAS.
 - D. ALL FLOOR SINKS, COMPLETE WITH TOP GRATES INDICATED, AND REI FLUSH WITH FINISH FLOOR, UNLESS NOTED.
 - E. INDIRECT WASTE LINES FOR WALK-IN COOLER/FREEZER BLOWER CO FOOT OF HORIZONTAL RUN, AND TERMINATE WITH A P-TRAP OVER RECEPTOR WITH VACUUM BREAK AS REQUIRED BY LOCAL CODE.
 - F. INSTALL FIRE CONTROL GAS SHUT-OFF VALVES AS SUPPLIED BY FIF SUBCONTRACTOR PER LOCAL CODES. (IF GAS COOKING EQUIPMENT
- G. VACUUM BREAKERS, AS REQUIRED, EXCEPT FOR DISHWASHERS AND KITCHEN EQUIPMENT CONTRACTOR.
- 5. ALL VENT PIPES SHALL BE CONCEALED IN WALLS OR COLUMN CHASES. US FIXTURES.
- 6. ALL EXPOSED PIPING AND FITTINGS IN KITCHEN AREAS SHALL BE CHROME-
- 7. ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH INTER EQUIPMENT.
- 8. PLUMBING CONTRACTOR (P.C.), OR EQUIVALENT, SHALL INTERCONNECT DISH HEATER, AND WATER-TYPE VENTILATORS WITH CONTROL PANELS AS PER MA APPLICABLE AND NOTED.
- 9. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION, R

S HIGH AS POSSIBLE.
TIONS.
ERTIFIED.
AT CONNECTIONS OF DISSIMILAR BITED.
AND EQUIPMENT ONLY. SEE S.
CHTS, CONNECTION SIZES, M FINISHED FLOORS AND WINGS.
R INCLUDING REQUIRED , TUBING, ETC. TO ASSURE LOCAL CODES.
THE FOLLOWING:
ON PLAN. ROUGH—IN OUTLETS TO TO CENTERLINE OF OUTLET. S. ALL FLOOR
DIAMETER OF LINE SHALL BE AS E PITCHED DOWNWARD. MAINTAIN D AND CLEANING. ALL WASTE
BOOSTER HEATERS, OR AS
VABLE SEDIMENT BUCKETS SET
SHALL BE PITCHED 3/4" PER OOR SINK OR APPROVED
DROTECTION SYSTEM

; at Hibit	CONNECTIONS ED.	OF	DISSIMILAR	
S				

CATIONS.	
CERTIFIED.	

LEGEND

ABBREV.

140**°**

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VB

VTR

WCO

WHA

TWR

SAN, S

STD STANDARD

GA

EWT

DWG

CD, COND

ABBREVIATIONS

DEFINITION

140° DOMESTIC HOT WATER

ABOVE FINISHED FLOOR

AUTOMATIC AIR VENT

ABOVE

AREA DRAIN

ACCESS PANE

BLOW DOWN VALVE

BOTTOM OF PIPE

BACKFLOW PREVENTER

BRAKE HORSEPOWER

BRITISH THERMAL UNIT

CONDENSATE DRAIN

British Thermal Unit Per Hour

BACK WATER VALVE W/ ACCESS COVER

BLIND FLANGE

APPROXIMATE

ANCHOR

ACID WASTE

BOTTOM

CAPACITY

CAST IRON

CONNECT

CONCRETE

CUBIC FEE

COLD WATER

CX CONNECT TO EXISTING

DIAMETER

PIPE DOWN

DISCHARGE

DRAWING

ELECTRIC

EXISTING

FIRE LINF

FD FLOOR DRAIN

GAS

GAUGE

GALV GALVANIZED

ELEVATION

DDC DOUBLE DETECTOR CHECK VALVE

DRAINAGE FIXTURE UNITS

DOWN SPOUT W/BOOT

ENTERING WATER TEMPERATURE

FUNNEL CONNECTION @ FD

DEEP SEAL TRAP

FLOOR CLEANOUT

FCVA FLOOR CONTROL VALVE ASSEMBLY

FDV FIRE DEPT. HOSE CONNECTION

FLOW SWITCH

FEET OF HEAD

GPM GALLONS PER MINUTE

HORSEPOWER

HEAT TRAP

HYDRAULIC

INCHES

HOSE END DRAIN HORIZONTAL

HOT WATER (140°F)

INVERT ELEVATION

LIMIT OF CONTRACT

MANUAL AIR VENT

OPEN HUB DRAIN

PRESSURE

PCOND PUMPED CONDENSATE

PIPE HANGER

PRESSURE SWITCH

PUMPED SANITARY

ROOF DRAIN

SANITARY

SCHEDULE

SPRINKLER LINE

STORM WATER

TEMPERATURE

TRENCH DRAIN

TAMPER SWITCH

TEMPERED WATER

VACUUM BREAKER

WALL CLEANOUT

NOT ALL ABBREVIATIONS MAY BE USED.

VENT THROUGH ROOF

WSFU WATER SUPPLY FIXTURE UNITS

WATER HAMMER ARRESTOR

PIPE UP

UP&DN PIPE UP & DN

I VENT

TD TRENCH DRAIN

TEMPERED WATER RETURN

RAIN LEADER

STEAM CONDENSATE

O.S.&Y OUTSIDE STEM & YOKE VALVE

PUMPED DISCHARGE

PRESSURE REDUCING VALVE

PUMPED STEAM CONDENSATE

INDIRECT WASTE

HOT WATER RETURN (140°F)

NON-FREEZE GROUND HYDRANT

NON-FREEZE WALL HYDRANT

NON-RISING STEM & YOKE

HOSE BIB

CO CLEANOUT

AQ AQUASTAT

AV ACID VENT

140' DOMESTIC HOT WATER RETURN

SYMBOLS

||------ ---- | TEMPERED WATER (110[•])

|| — – – – — | TEMPERED WATER RETURN (110°

|| ---- - ---- | 140° DOMESTIC HOT WATER

|| ---- - - - - | 140° DOMESTIC HOT WATER RETURN

DEFINITION

SYMBOL

COLD WATER

TEMPERED WATER

SPRINKLER LINE

-- VENT

- SANITARY

PUMPED DISCHARGE

CONDENSATE DRAIN

FOUNDATION DRAIN

AW AW ACID RESISTANT WASTE

ACID RESISTANT VENT

GATE VALVE

GLOBE VALVE

PLUG VALVE

| _____≓, CHECK VALVE

----O PIPE UP

FLOAT VALVE

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BALANCING VALVE

PRESSURE REDUCING VALVE

|| ----- | REDUCED PRESS. BACKFLOW PREVENTER

DOUBLE DETECTOR CHECK VALVE

BACKWATER VALVE

FLOOR CLEANOUT

WALL CLEANOUT

PIPE UP & DOWN

PIPE DOWN

SIGHT GLASS

FLOOR DRAIN

FLOOR SINK

TRAP (ELEVATION)

MIXING VALVE

INCHES

FLOW SWITCH

Y' STRAINER

ACCESS PANEL

----- CENTER LINE

_____ SOLENOID VALVE

CAPPED PIPE

MANUAL AIR VENT

AUTOMATIC AIR VENT

PRESSURE/TEMP. RELIEF VALVE

PRESSURE DIFFERENCE

TEMPERATURE DIFFERENCE

PRESSURE GAUGE W/ NEEDLE VALVE

DIAMETER (OR ELECTRICAL PHASE)

SLOPE OF PIPE (WITH % OF SLOPE SHOWN)

HCHI BLOW DOWN VALVE (W/HOSE END)

THERMOMETER

BACK WATER VALVE W/ ACCESS COVER

_____ FUNNEL CONNECTION @ FLOOR DRAIN

S-A-1 SANITARY/WATER RISER DESIGNATION

EXISTING TO REMAIN

DEMOLITION ENDS HERE

NOTE: NOT ALL SYMBOLS MAY BE USED.

CONNECT TO EXISTING HERE

--- REMOVE EXISTING

HOSE BIBB (ELEV.)

NON-RISING STEM & YOKE

HOSE END DRAIN

TAMPER SWITCH

FLOOR CONTROL VALVE ASSEMBLY

— POINT OF CONN. TO SITE UTILITIES

SQUARE FOOTAGE

DUPLEX GAS OUTLET

PRESSURE SWITCH

WATER HAMMER ARRESTOR

FEET

(#) ROOF DRAIN (W/ SQ.FT INDICATED)

FLOOR DRAIN WITH TRAP PRIMER

VENT THROUGH ROOF (ELEVATION)

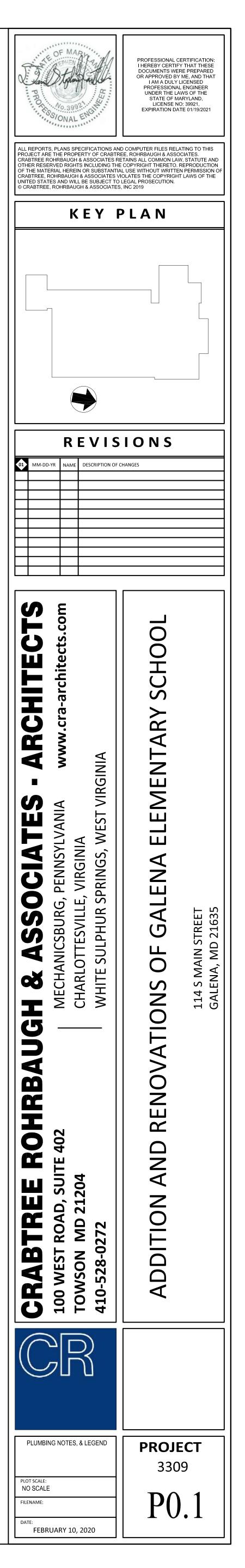
VENT THROUGH ROOF (PLAN)

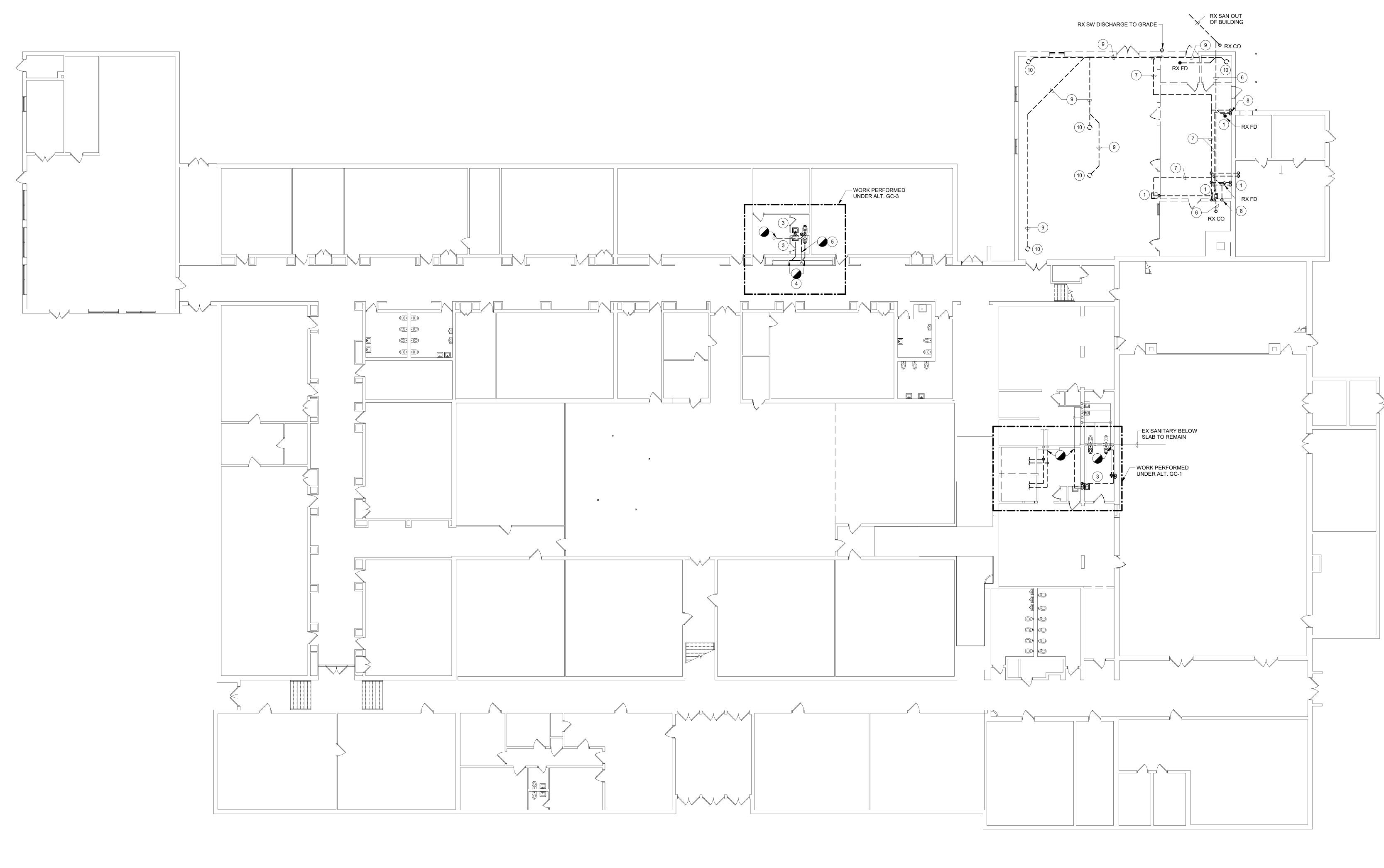
COMPRESSED AIR

BUTTERFLY VALVE

- STORM WATER

FIRE LINE









1. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES. ALL ROOFING WORK SHALL BE PERFORMED BY A CERTIFIED ROOFING CONTRACTOR TO MAINTAIN THE EXISTING WARRANTY IN THE AREAS OF WORK.

DRAWING NOTES:

- REMOVE EXISTING PLUMBING FIXTURE(S), AND ASSOCIATED SANITARY, VENT AND DOMESTIC
- WATER PIPING IN IT'S ENTIRETY.
- REMOVE EXISTING DOMESTIC WATER PIPING (2) BACK TO EXISTING BOILER ROOM.
- 3 UNDER ADD ALTERNATE, REMOVE EXISTING PLUMBING FIXTURES, PIPING, VALVES ETC IN IT'S ENTIRETY.
- (4) RX 6" UG SAN AS INDICATED.

(1)

- RX UG CW AS INDICATED
- RX 4" UG SAN AS INDICATED.
- (7)RX DOMESTIC WATER PIPING, INSULATION, HANGERS ETC IN IT'S ENTIRETY.
- (8) RX VENT THROUGH ROOF.\
- 9 RX STORM WATER PIPING AND ALL ASSOCIATED INSULATION, SUPPORTS, HANGERS ETC. IN IT'S
- ENTIRETY. (10) RX STORM WATER PIPING UP TO RD.

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

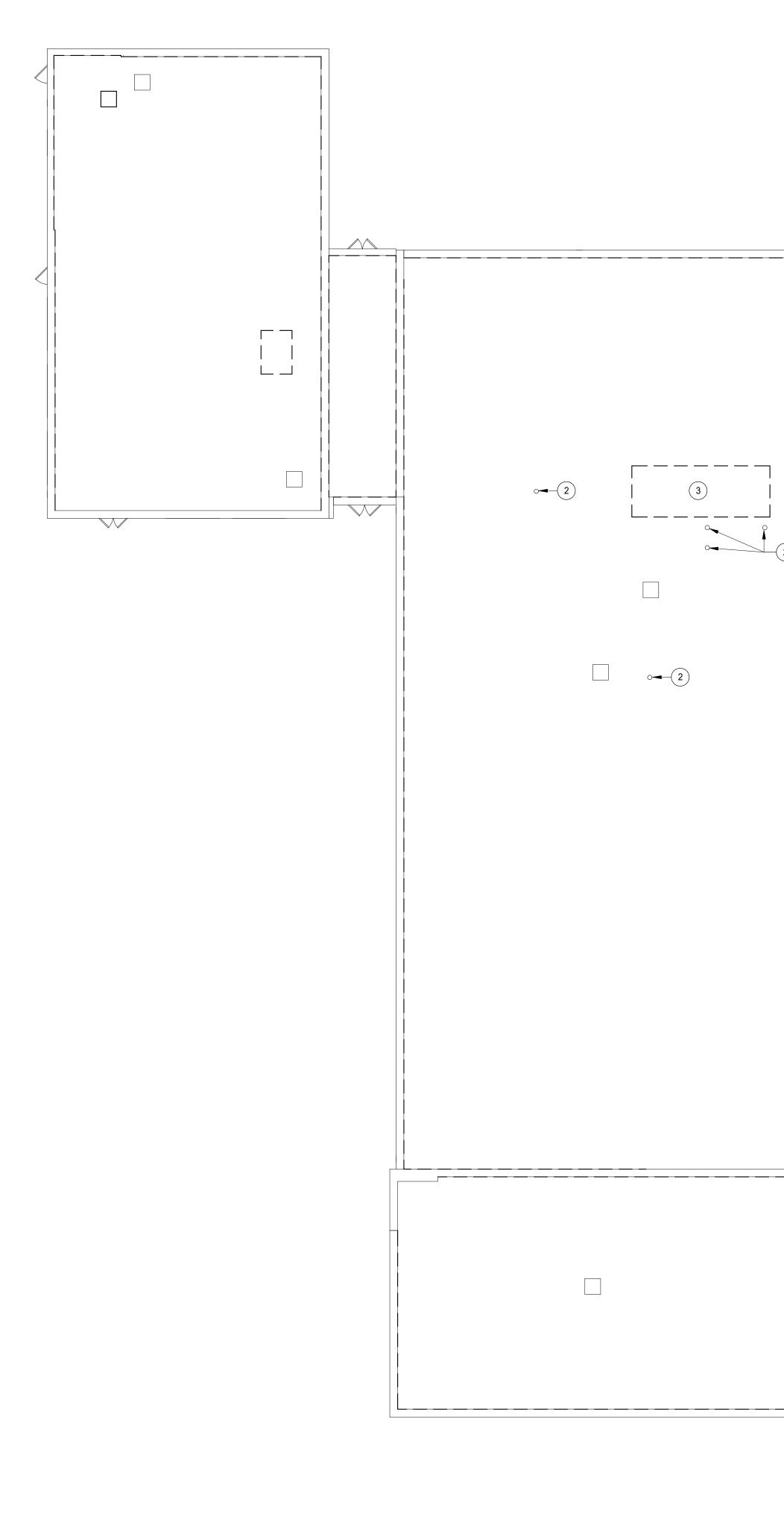


DATE: FEBRUARY 10, 2020 PD2.1

3/32" = 1'-0"

FILENAME:

32



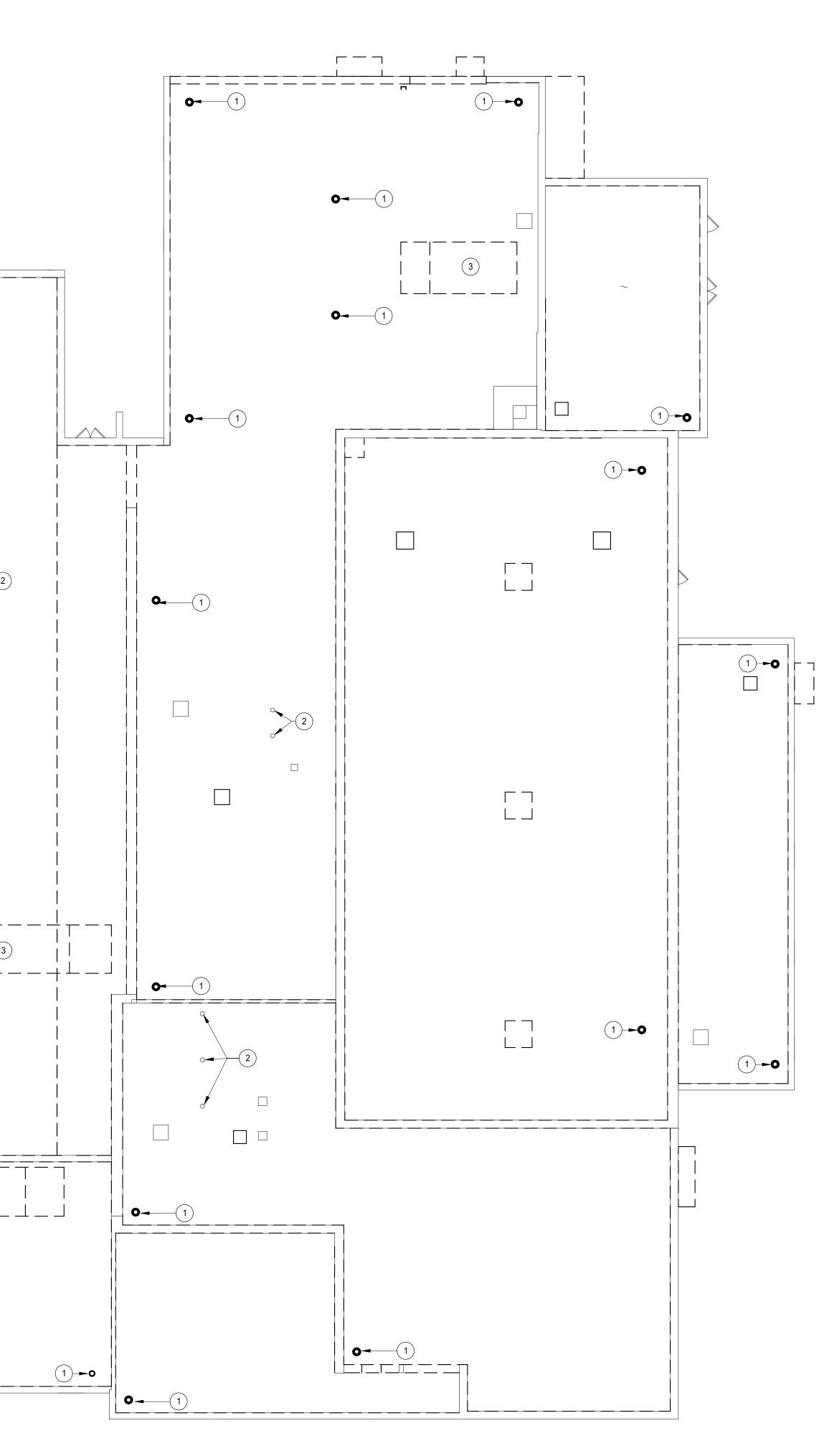
0(1)	 0(1)	0 (1)	
3			
			2

<u>ROOF PLAN - DEMOLITION</u> 3/32" = 1'-0"

N

GENERAL NOTES:

- PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES. ALL ROOFING WORK SHALL BE PERFORMED BY A CERTIFIED ROOFING CONTRACTOR TO MAINTAIN THE EXISTING WARRANTY IN THE AREAS OF WORK. DURING ROOF REPLACEMENT ALL EXISTING TO REMAIN VENTS AND DRAINS SHALL REMAIN ACTIVE THROUGH CONSTRUCTION. DRAWING NOTES:
- REMOVE EXISTING ROOF DRAIN IN IT'S ENTIRETY.
- EXISTING TO REMAIN PLUMBING VENT. DEMOLISH EXISTING CONDENSATE DRAIN
- CONNECTED TO MECHANICAL UNITS TO BE DEMOLISHED.



SCALE: 3/32" = 1'-0" 0 16

8

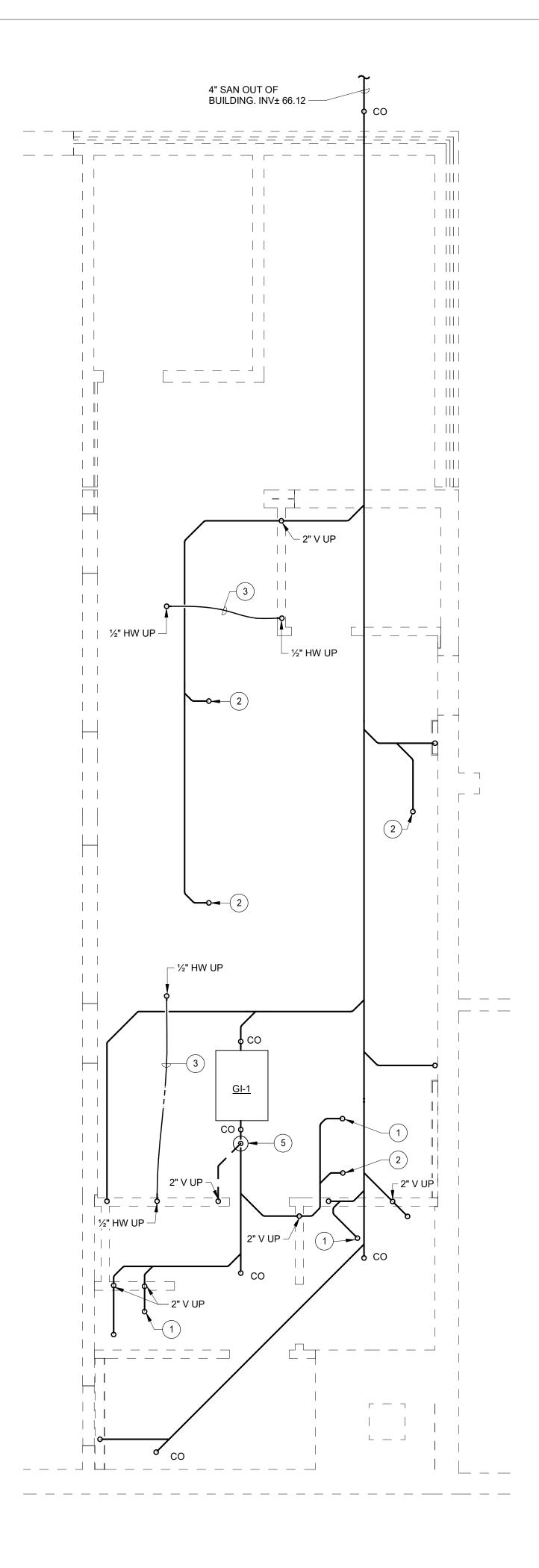
32



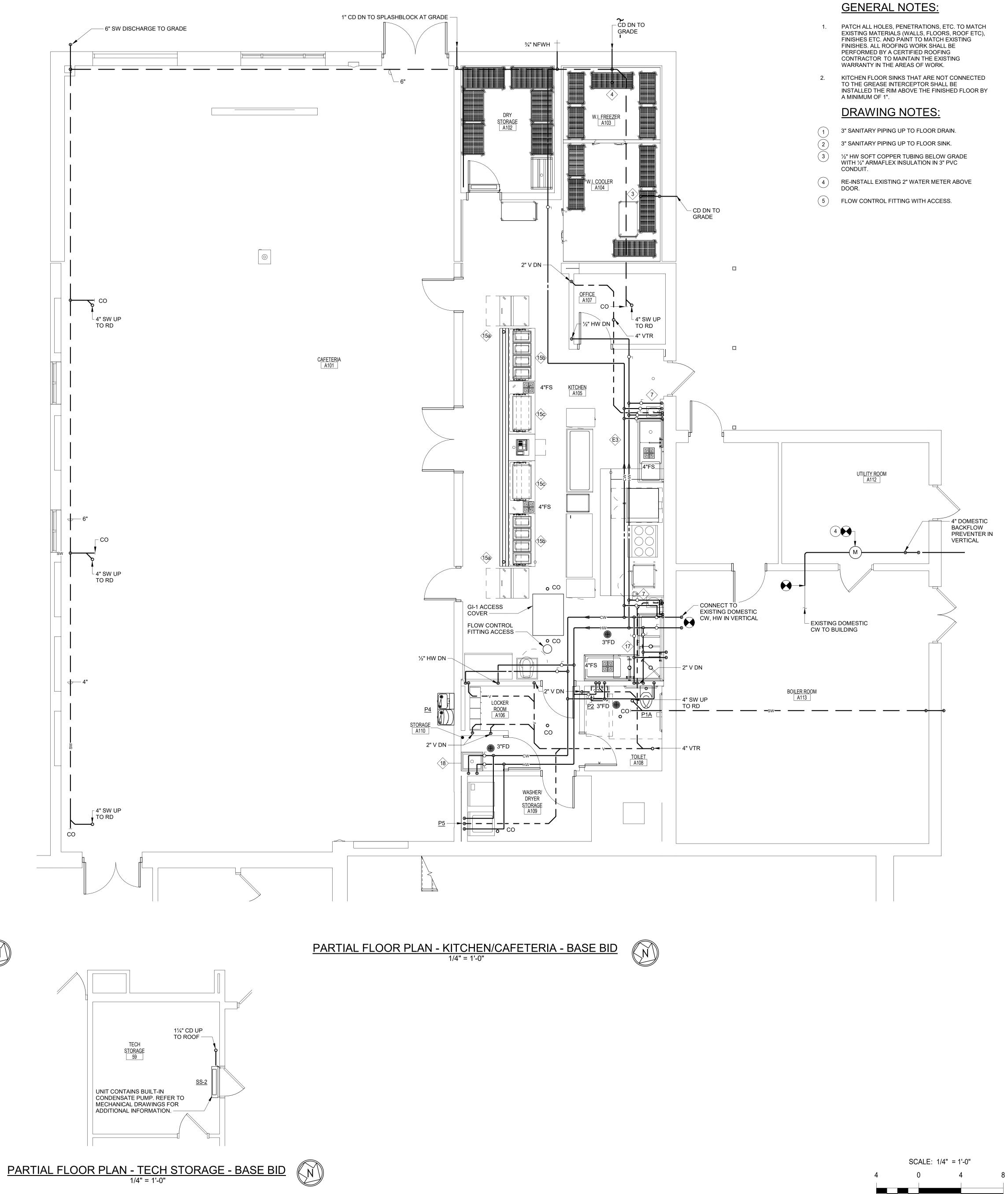
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3/32" = 1'-0"

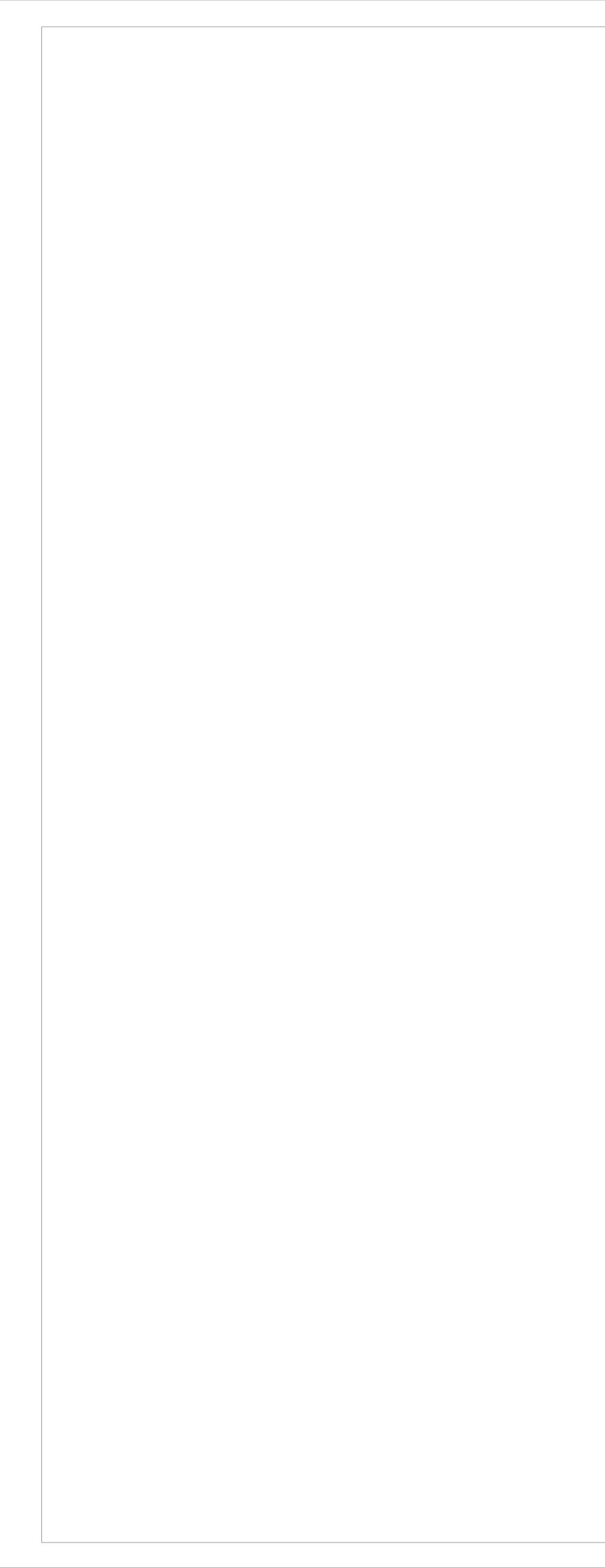
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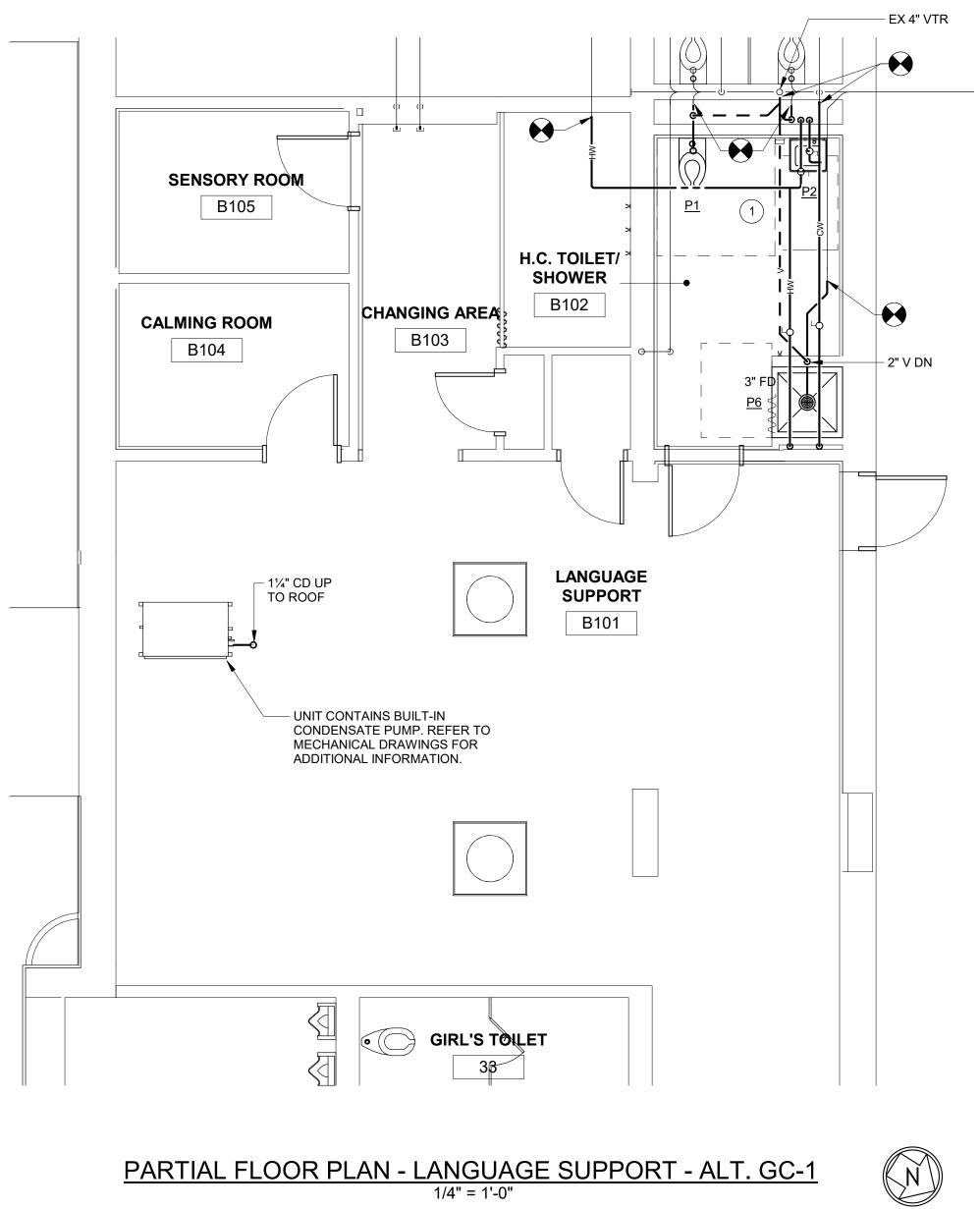


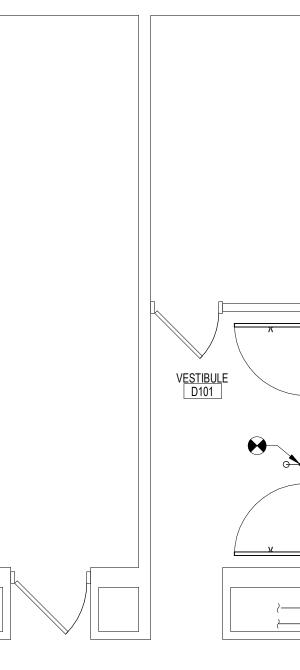
PARTIAL FOUNDATION PLAN - KITCHEN/CAFETERIA - BASE BID











SOC. WORKER 53 MEN'S H.C – TOILET D102 WOMEN'S H.C — TOILET D103 , (3)-

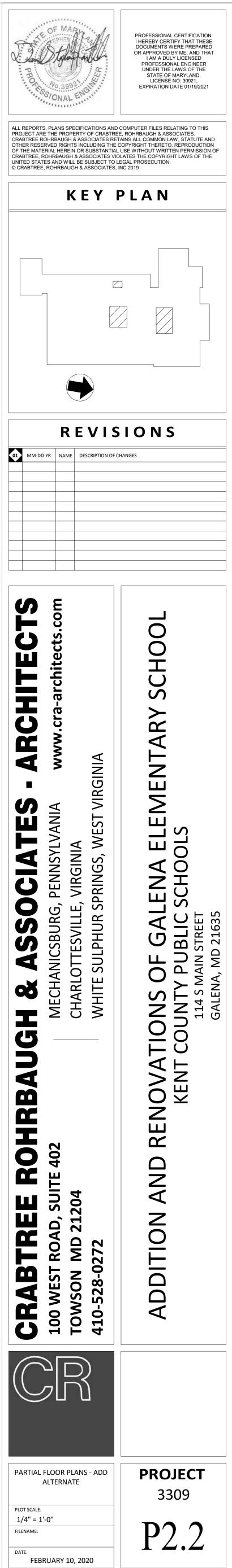
PARTIAL FLOOR PLAN - ADA TOILETS - ALT. GC-3 1/4" = 1'-0"

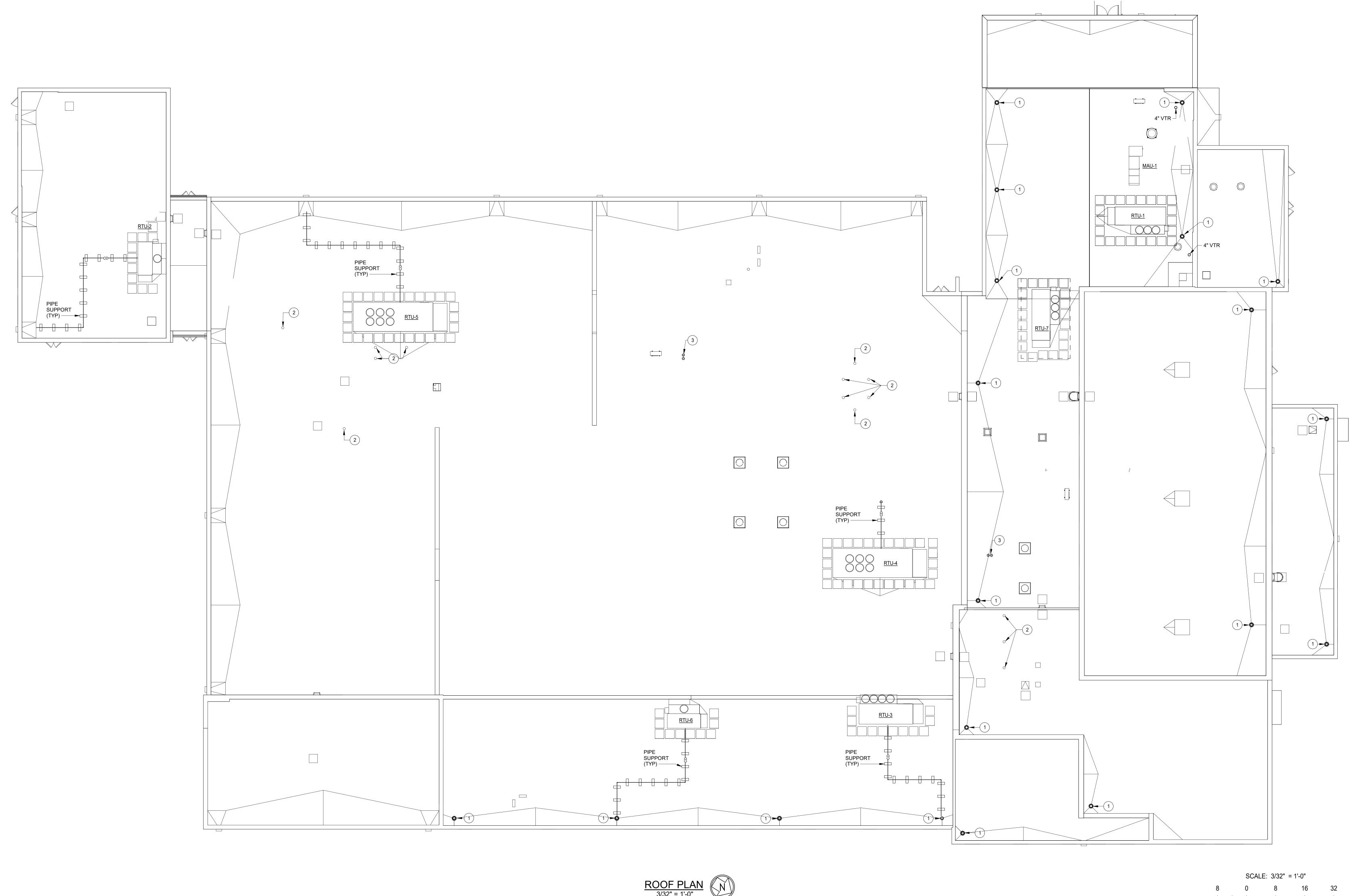
GENERAL NOTES:

PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES. ALL ROOFING WORK SHALL BE PERFORMED BY A CERTIFIED ROOFING CONTRACTOR TO MAINTAIN THE EXISTING WARRANTY IN THE AREAS OF WORK.

DRAWING NOTES:

- $\left(1\right)$ EXTEND EXISTING SANITARY/VENT AND DOMESTIC WATER PIPING TO FIXTURES IN THIS AREA.
- 2 ELECTRIC TANKLESS WATER HEATER LOCATED ABOVE CEILING. 3KW INPUT BASED ON HUBBELL MODEL R003-2S.
- 3 SANITARY PIPING BELOW SLAB.







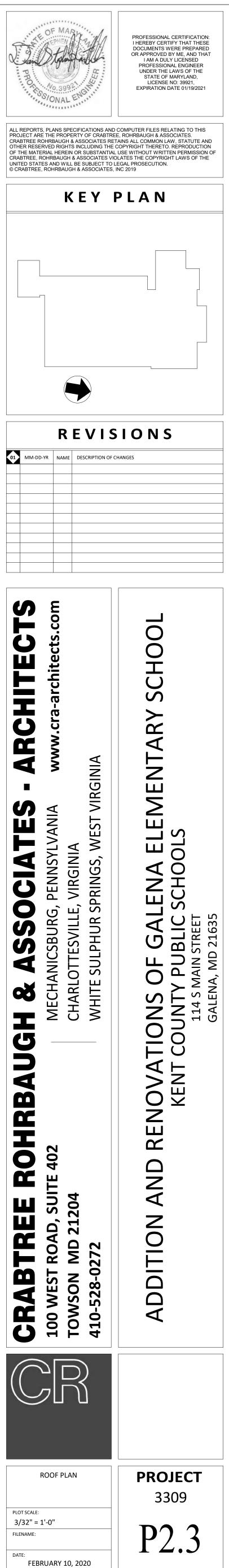
1.

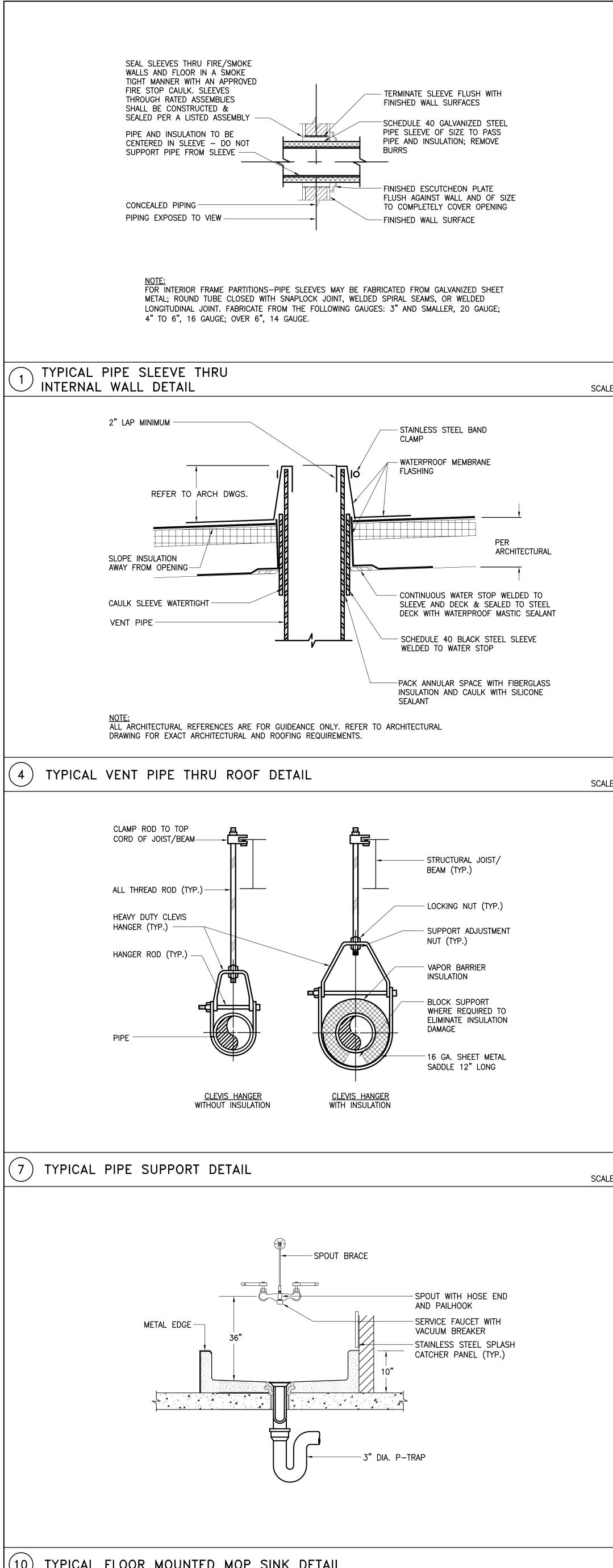
PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES. ALL ROOFING WORK SHALL BE PERFORMED BY A CERTIFIED ROOFING CONTRACTOR TO MAINTAIN THE EXISTING WARRANTY IN THE AREAS OF WORK.

DRAWING NOTES:

OF ALL)

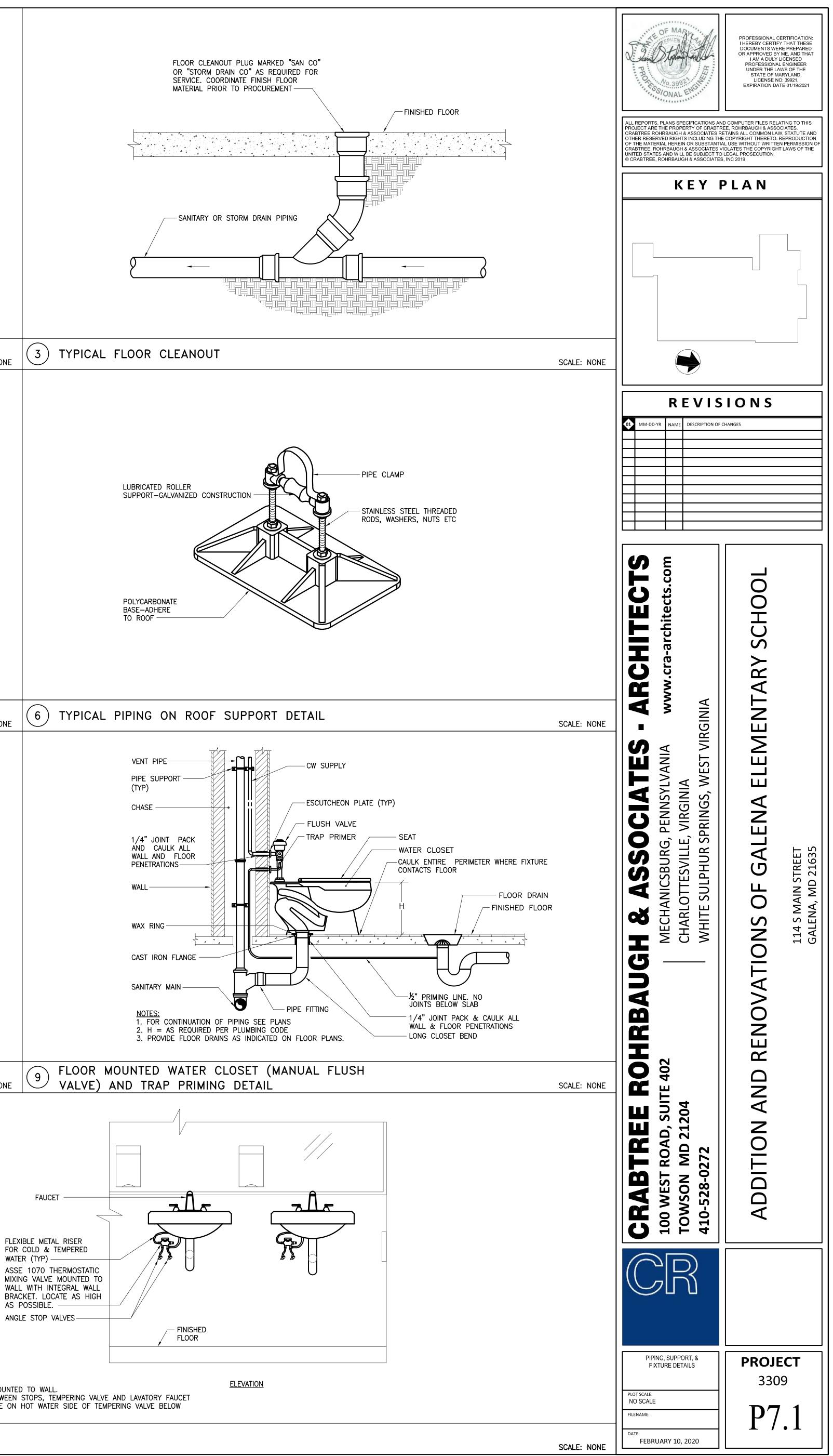
- REPLACE ROOF DRAIN AND EXTEND PIPING TO ACCOUNT FOR NEW ROOF INSTALLATION. (1)
- 2 EXTEND EXISTING VENT THROUGH ROOF PIPING TO A MINIMUM OF 12" ABOVE FINISHED ROOF (TYP
- 3 1¹/4" GOOSENECK CD DISCHARGE TO ROOF. TERMINATE 18" ABOVE FINISHED ROOF. PROVIDE INSECT SCREEN OVER OPENING.



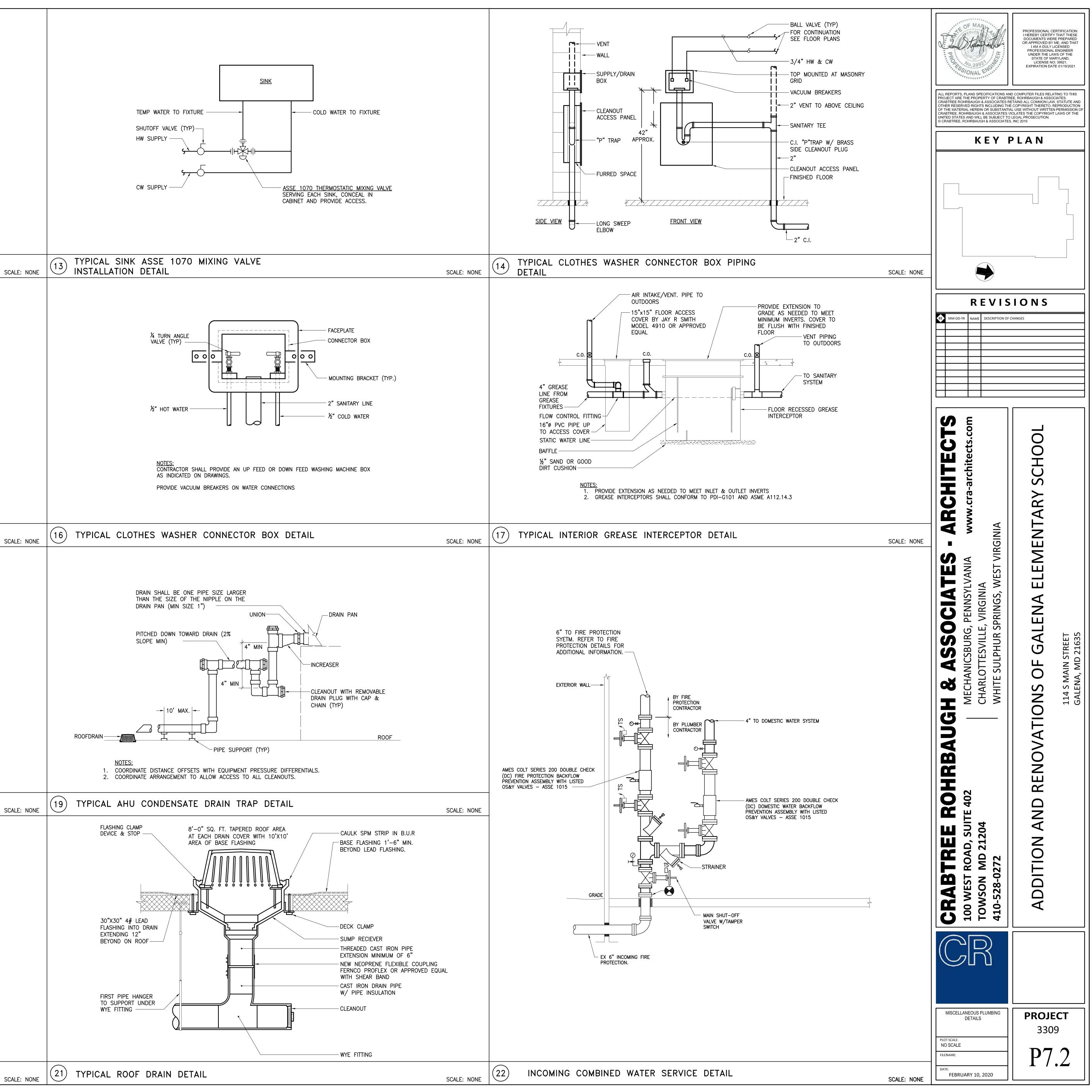


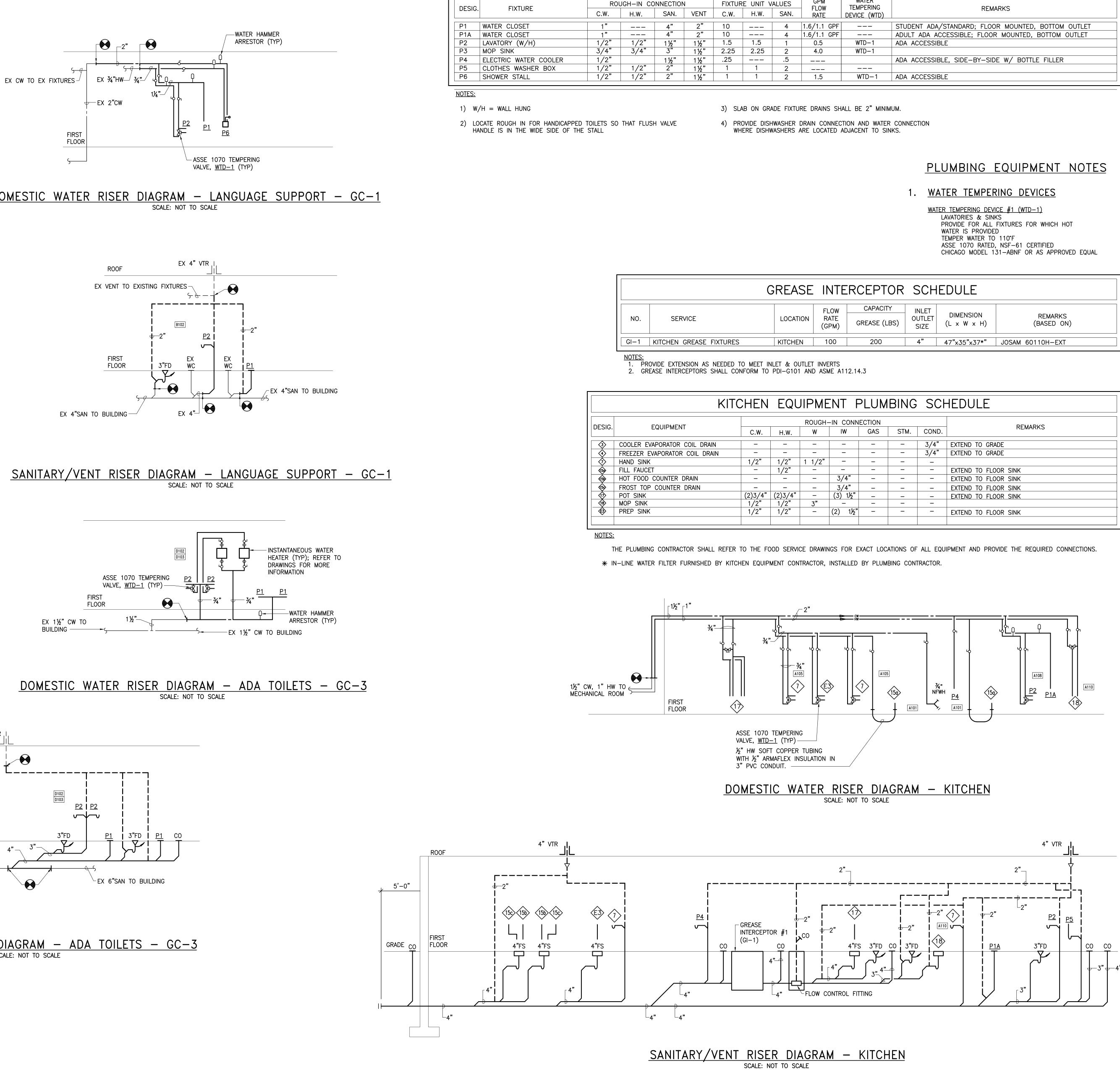
(10) TYPICAL FLOOR MOUNTED MOP SINK DETAIL

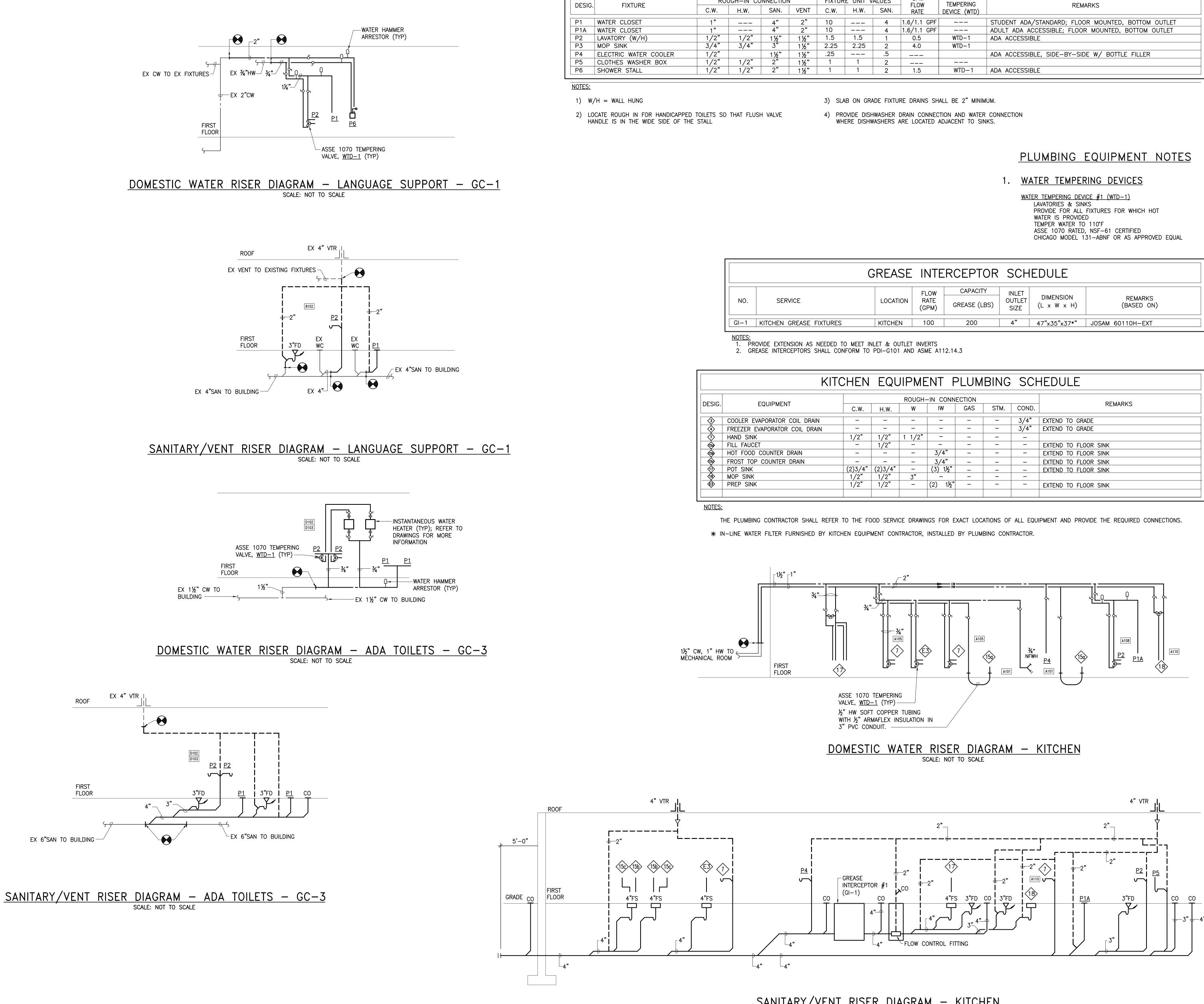
	FLANGED GRATE FINSH FLOOR FLOOR F	
-E: NONE	2 TYPICAL FLOOR DRAIN DETAIL	SCALE: NON
E: NONE	FINISHED FLOOR FUNISHED FLOOR SHALL BE PATCHED TO MATCH EXISTING WITH CONSTRUCTION MATCHERALS EQUAL OR SUPERIOR TO THOSE EXISTING IN PLACE REFER TO STRUCTURAL DRAWINGS FOR INFLL SLAB CONST. DTL. FINISHED FLOOR FUNISHED FLOOR FINISHED FLOOR FUNISHED FLOOR RX PIPING TO FIXTURE FUNISHED FLOOR PIPING AS SHOWN OFFICIENCE RX PIPING TO FIXTURE CAP PIPING AS SHOWN OFFICIENCE RX FITTING AND PLUG OR CAP FINISHED FLOOR RX FITTING AND PLUG OR CAP FINISHED FLOOR RX FITTING AND PLUG OR CAP RX PIPING AS CLOSE TO THE MAIN AS POSSIBLE TYPICAL UNDERSLAB PIPING DEMOLITION AND ABANDONMENT DETAIL	SCALE: NON
E: NONE	CLAMP ROD TO TOP CORD OF JOIST/BEAM JOIST/BEAM (TYP.) COUPLING AS REQUIRED AS REQUIRED AS REQUIRED AS HALL THREAD ROD BLANK END CAP WASHER & NUT KINDORF CHANNEL (GAUGE AS REQ'D)	SCALE: NON
	CAULK WHERE LAWATORY CONTACTS WALL FAUCET LAVATORY/ UANATORY/ UANATORY/ WAND TW FLEXBLE METAL TRAP (FOR HANDICAPPED FIXTURES UTILIZE OFFSET TRAP WITH INSULATION KIT) TEMPERING VALVE ANGLE STOP VALVE CHROME ESCUTCHEON (TYP.) FINSHED FLOOR ELEVATION SANITARY MAIN ELEVATION	EE PLANS. IG CODE. W LAVATORY, MOU TO LENGTH BETWE
	(11) TYPICAL WALL MOUNTED LAVATORY DETAIL	
E: NONE	$ $ \checkmark	



(12)	ΝΟΤ	USED	
	NUT	0320	SCALE
\square			
(15)	NOT	USED	SCALE
(15)			.3UALE
			SUALE
			SCALE
			SCALE
	NOT	USED	
	NOT	USED	SCALE
	NOT	USED	



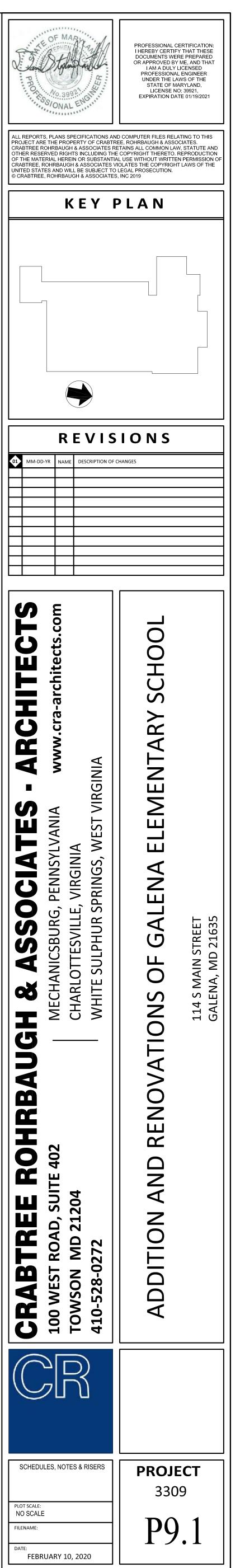


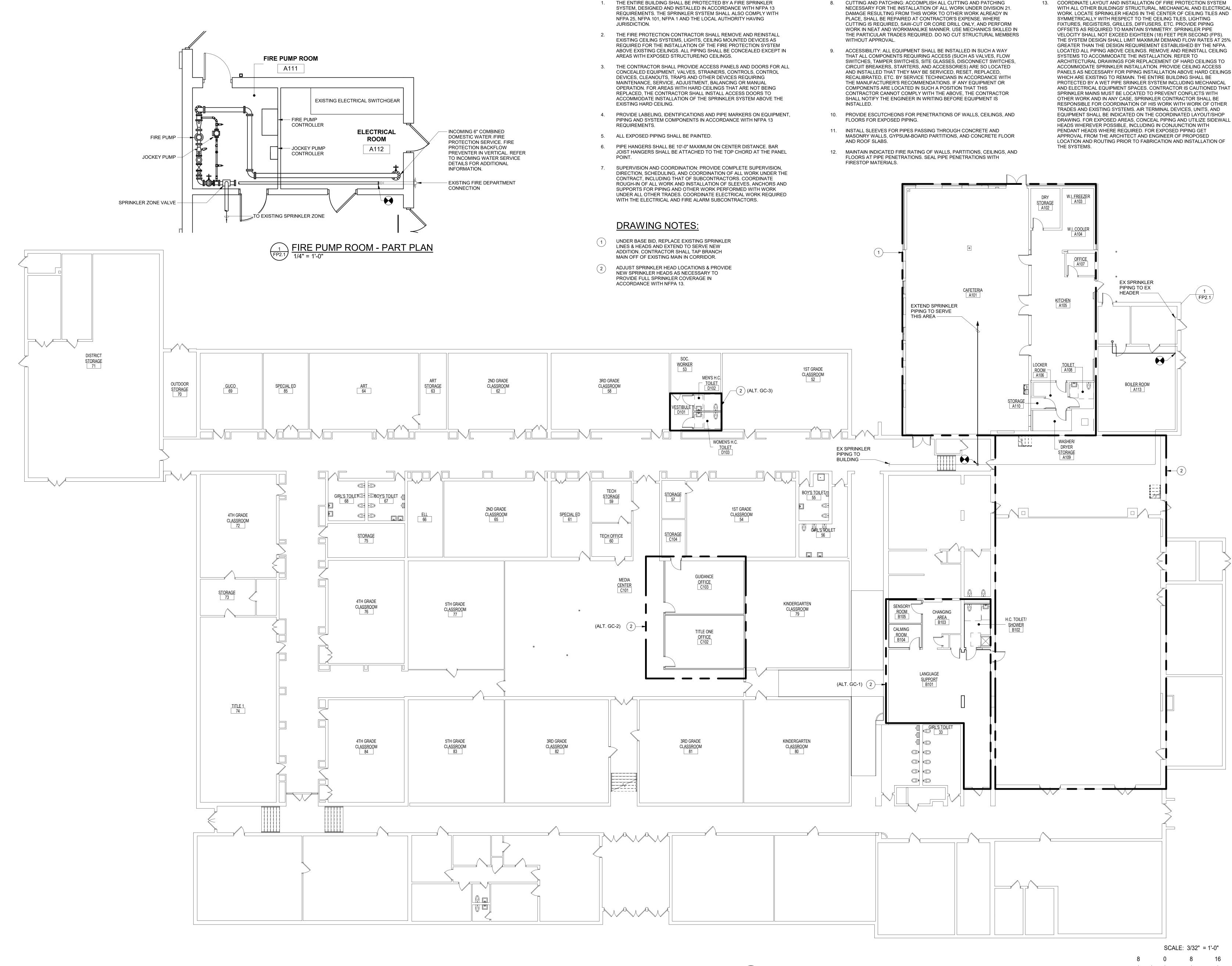


Ρ	LUME	BING	FIXT	JRE	SCH	EDULE			4
-IN CC	NNECTION		FIXTUR	E UNIT V	ALUES	GPM FLOW	WATER TEMPERING	REMARKS	0
1.W.	SAN.	VENT	C.W.	H.W.	SAN.	RATE	DEVICE (WTD)	REMARKS	
	4"	2"	10		4	1.6/1.1 GPF		STUDENT ADA/STANDARD; FLOOR MOUNTED, BOTTOM OUTLET	
	4"	2"	10		4	1.6/1.1 GPF		ADULT ADA ACCESSIBLE; FLOOR MOUNTED, BOTTOM OUTLET	
1/2"	1½"	1½"	1.5	1.5	1	0.5	WTD-1	ADA ACCESSIBLE	
3/4"	3"	1½"	2.25	2.25	2	4.0	WTD-1		AL
	1½"	1½"	.25		.5			ADA ACCESSIBLE, SIDE-BY-SIDE W/ BOTTLE FILLER	PR CF
1/2"	2"	1 1/2 "	1	1	2				OT OF
1/2"	2"	1 1/2 "	1	1	2	1.5	WTD-1	ADA ACCESSIBLE	AL PR CF OT OF CF UN
									C (

NO. SERVICE LOCATION LOCATION LOCATION RATE (CPM) GREASE (LBS) SIZE (L × W × H) (BASED ON)								
NO.	SERVICE					DIMENSION (L × W × H)	REMARKS (BASED ON)	
-1	KITCHEN GREASE FIXTURES	KITCHEN	100	200	4"	47"x35"x37*"	JOSAM 60110H-EXT	

			ROUGH-	-IN CONN	ECTION	DEMARKO		
EQUIPMENT	C.W.	C.W. H.W.		IW GA		STM.	COND.	REMARKS
LER EVAPORATOR COIL DRAIN	-	_	_	-	_	-	3/4"	EXTEND TO GRADE
ZER EVAPORATOR COIL DRAIN	-	-	_	_	_	_	3/4"	EXTEND TO GRADE
) SINK	1/2"	1/2"	1 1/2"	_	_	_	_	
FAUCET	-	1/2"	_	-	-	-	-	EXTEND TO FLOOR SINK
FOOD COUNTER DRAIN	_	_	—	3/4"	-	_	—	EXTEND TO FLOOR SINK
ST TOP COUNTER DRAIN	-	-	—	3/4"	_	_	_	EXTEND TO FLOOR SINK
SINK	(2)3/4"	(2)3/4"	_	(3) 1½"	-	_	_	EXTEND TO FLOOR SINK
SINK	1/2"	1/2"	3"	_	_	—	—	
P SINK	1/2"	1/2"	-	(2) 1½"	-	_	_	EXTEND TO FLOOR SINK







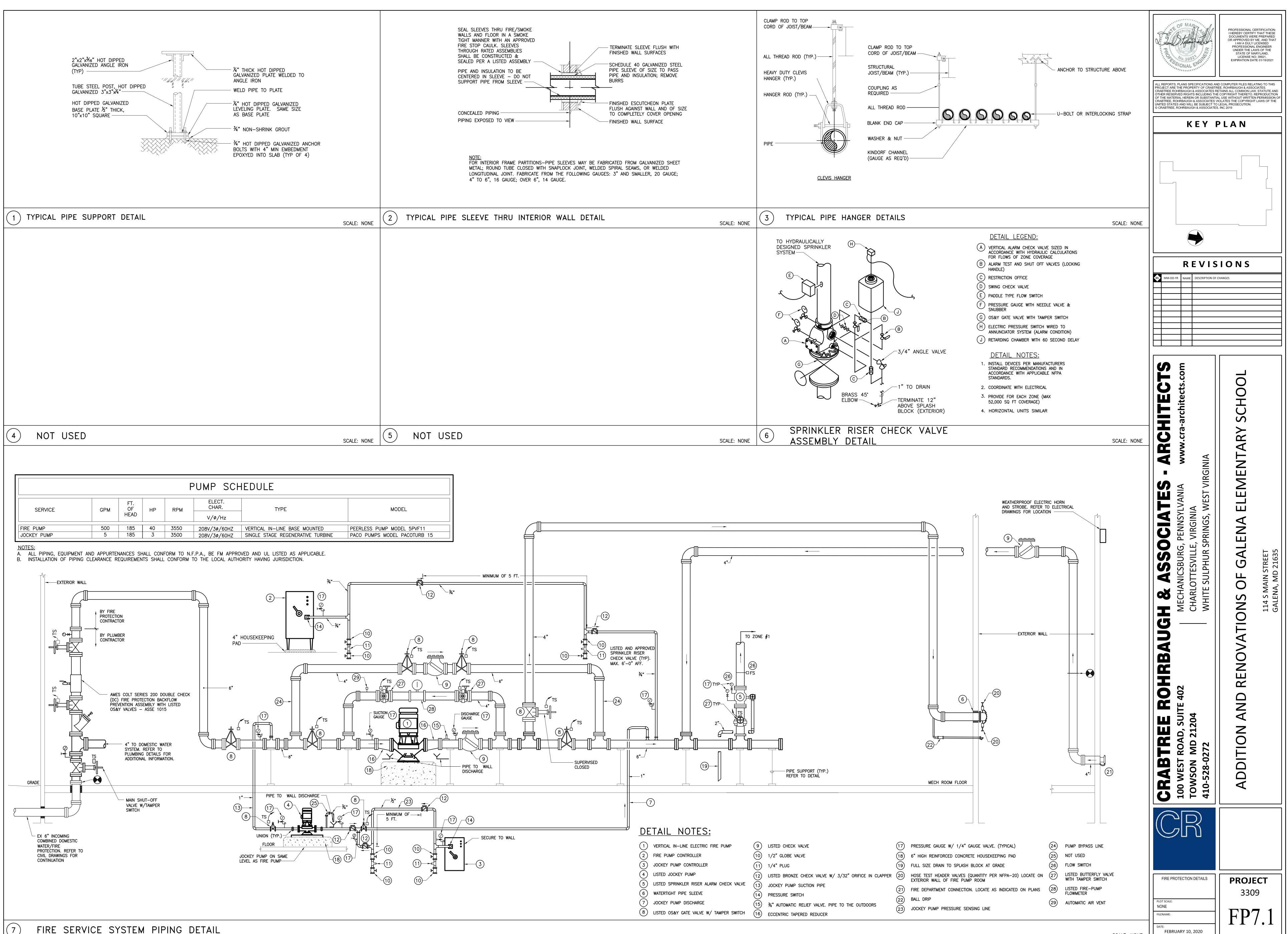
- THE ENTIRE BUILDING SHALL BE PROTECTED BY A FIRE SPRINKLER

FLOOR PLAN - FIRE PROTECTION

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

32





SCALE: NONE

- THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCH MECHANICAL, CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART (PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE S REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIP DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICA EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT WIRING.
- COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTION 3. ELEVATIONS AND CASEWORK DRAWINGS.
- 4. COORDINATE WALLS THAT ARE TO REMAIN AND NEW WALLS WITH ARCHITECTURAL PLANS.
- WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRA 5. SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACT PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND M CONNECTIONS.
- ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN A 4"x4"), SHALL BE MADE OF STEEL, AND SHALL BE SUCH THAT THE CUMULATIVE AREA OF BOX "CUTOUTS" IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEE AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARA HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAN 24 INCHES. THE ELECTRICAL CO SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO EN COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENS THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.
- ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOORS, ABOVE CEILING OR THROUGH MILL 7. TIMES CONDUIT ROUTING IS SHOWN FOR CLARITY AND IN NO WAY PROVIDES THE CONTRACT ABILITY TO NOT PROVIDE CONCEALED CONDUIT AT ANY POINT OTHER POINT NOT SHOWN II BUILDING. REFER TO SPECIFICATIONS FOR CONDUIT AND WIRING REQUIREMENTS BASED (APPLICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIF 8. CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 CIRCUITS SHALL BE SIZED AS FOLLOWS:

		20 AMPERE	CIRCUITS	
120 V	OLT	277 V	OLT	MINIMUM CONDUIT
WIRING LENGTH	WIRING SIZE	WIRING LENGTH	WIRING SIZE	
0' - 60'	#12	0 '- 130'	#12	3/4"
60' - 100'	#10	130' - 210'	#10	3/4"
100' - 150'	#8	210' - 340'	#8	3/4"
150' - 240'	#6	340' - 540'	#6	3/4"
OVER 240'	#4	OVER 540'	#4	1"

DEMOLITION NOTES

DEMOLITION DRAWING IS DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SH 1 EXISTING ELECTRICAL WORK IN AREAS INDICATED TO BE RENOVATED. ALL EXISTING ELECT WORK IS TO BE REMOVED UNLESS OTHERWISE NOTED. WHEN AN ITEM IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED ELECTRICAL WORK BACK TO POINT OF SOURCE.

CIRCUITS & ECM MOTORS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

- WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF BUILDING, OR WORK IN THE RENOVATION AREA INDICATED TO REMAIN, IT SHALL BE SUITAB RELOCATED AND THE SYSTEMS RESTORED TO NORMAL. COORDINATE ANY OUTAGES WITH DAYS IN ADVANCE.
- 3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE. DISPOSE OF ALL PCB CONTAINING FLUORESCENT AND HID BALLASTS IN ACCORDANCE WITH 4 DOT, STATE AND LOCAL REGULATIONS. IF THE PCP CONTENT IS NOT STATED ON THE BALL THE BALLAST LABEL SHALL BE HANDLED AS A PCB BALLAST. DISPOSE OF ALL FLUORESCEN INCANDESCENT AND HID LAMPS IN ACCORDANCE WITH EPA, DOT, STATE AND LOCAL REGUL
- 5. ALL PA PHONES AND PA HEAD EQUIPMENT SHALL BE TURNED OVER TO OWNER.
- COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE OWNER TO MININ 6. DISRUPTION OF THE NORMAL DAILY FUNCTIONING OF THE OWNERS OCCUPIED AREAS. 7. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXISTING WALLS. ALL NEW DEVICES LOCAT EXISTING WALLS SHALL BE FISHED TO BE INSTALLED CONCEALED AND FLUSH TO THE WALL
- FISHING CANNOT OCCUR, PROVIDE APPROPRIATE SERIES WIREMOLD TO SURFACE MOUNTE DEVICES.
- 8. ALL REMOVED DEVICE WALL PENETRATIONS SHALL BE PATCHED AND PAINTED TO MATCH E WALL COLOR OR WALL COLOR PER ARCHITECT'S DIRECTION.

		ELECTRICAL LEGEND. (MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE U.O.N.)
		FIRE ALARM
	E	FIRE ALARM PULL STATION. MOUNT AT 48" A.F.F.
	SD	SMOKE DETECTOR.
L OTHER CHITECTURAL,	[SD] ^E	FIRE ALARM SMOKE DETECTOR - CEILING OR WALL MOUNTED. SUBSCRIPT 'E' INDICATES ELEVATOR RECALL FUNCTION.
T OF THIS BY THE	DD	DUCT TYPE SMOKE DETECTOR. PROVIDE EACH DUCT DETECTOR WITH REMOTE TEST
E SCALED.	TS	SWITCH. REFER TO DETAIL FOR ADDITIONAL INFORMATION. SPRINKLER SYSTEM VALVE TAMPER SWITCH.
E SCALED. UIPMENT AND IICAL	FS	SPRINKLER SYSTEM FLOW SWITCH.
ENT AND	HD	HEAT DETECTOR.
DNS,	HDE	FIRE ALARM HEAT DETECTORS. CEILING OR WALL MOUNTED. SUBSCRIPT 'E' INDICATES ELEVATOR RECALL FUNCTION.
IS.	CM	CONTROL MODULE.
RACTOR	RT	REMOTE TEST SWITCH.
CTOR SHALL MAKE FINAL	FACP	FIRE ALARM CONTROL PANEL. MOUNT PER AHJ'S RECOMMENDATIONS.
N AREA (IF	FAAP	FIRE ALARM ANNUNCIATOR PANEL. MOUNT PER AHJ'S RECOMMENDATIONS.
OX EET OF WALL RATED BY A	⊢(F) 15cd	COMBINATION FIRE ALARM SPEAKER/STROBE LIGHTING. CANDELA RATING AS INDICATED. WALL MOUNT AT 6'-8" A.F.F. TO BOTTOM OR 6" BELOW CEILING, WHICHEVER IS LOWER U.O.N.
	-(F)	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE LIGHT. CANDELA RATING AS INDICATED.
NSIONED ON	15cd ↓	CEILING MOUNTED FIRE ALARM SPEAKER.
LLWORK. AT ACTOR		FIRE ALARM STROBE LIGHT. CANDELA RATING AS INDICATED. WALL MOUNT AT 6'-8"
N IN THE O ON	15cd \	A.F.F. TO BOTTOM OR 6" BELOW CEILING, WHICHEVER IS LOWER U.O.N.
	15cd (F)-	FIRE ALARM STROBE LIGHT. CEILING MOUNTED. CANDELA RATING AS INDICATED.
VIRING AND T VOLTAGE 20 AMPERE	LEI MM	FIRE ALARM MAGNETIC DOOR HOLDER.
	CO	CARBON MONOXIDE DETECTOR.
		COMBINATION SMOKE/FIRE DAMPER. PROVIDE MONITOR MODULE FOR SMOKE
	SMD	DETECTOR FURNISHED WITH UNIT AND 120/24V TRANSFORMER WITH PRIMARY AND SECONDARY FUSING FOR POWER CONNECTION TO DAMPER AS REQUIRED.
		<u>CONDUIT</u>
		HOMERUN TO PANELBOARD; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES.
		BRANCH CIRCUIT CONDUIT AND WIRING CONCEALED IN CEILING OR WALL SPACE, OR
		SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS. REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES.
		BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND. REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES.
G	۵	<u>LIGHTING</u>
		LIGHT FIXTURE. TYPE AS SPECIFIED. REFER TO LIGHT FIXTURE SCHEDULE.
		WALL MOUNTED LIGHT FIXTURE - TYPE AS SPECIFIED. REFER TO LIGHT FIXTURE SCHEDULE.
HOW ALL		INDICATES LIGHT FIXTURE ON EMERGENCY CIRCUIT.
CTRICAL	$\otimes \overline{\diamondsuit}$	EXIT SIGNAGE - CEILING MOUNTED, WALL MOUNTED 6" ABOVE DOOR. SHADING INDICATES ILLUMINATED FACE. DIRECTIONAL ARROWS AS INDICATED.
F THE		SWITCHES
F THE BLY TH OWNER 7		(MOUNTING HEIGHTS TO TOP OF DEVICE)
	S	LINE VOLTAGE TOGGLE SWITCH. MOUNT AT 48" A.F.F. U.O.N. LOW VOLTAGE SWITCH. "#" INDICATES NUMBER OF BUTTONS. MOUNT AT 48" A.F.F.
	S#LV	U.O.N. PROVIDE BACK BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING TERMINATED IN BUSHED END. PROVIDE ROOM
TH EPA, LAST LABEL, ENT,	G	CONTROLLER, WATTSTOPPER LMRC-210 SERIES AND MOUNT ABOVE ACCESIBLE CEILING. EXACT BUTTON QUANTITY AND FUNCTION TO BE DETERMINED BY
ULATIONS.		ARCHITECT. OCCUPANCY SENSOR, LOW VOLTAGE WITH POWER PACK, DUAL TECHNOLOGY, CEILING
	OS	MOUNTED. EATON OAC-DT SERIES OR APPROVED EQUALS. FAIL TO ON TYPE.
IMIZE	OS _H	OCCUPANCY SENSOR, LOW VOLTAGE WITH POWER PACK, ULTRASONIC LONG VIEW SENSOR, CEILING MOUNTED. EATON OAC-DT-2000R SERIES OR APPROVED EQUALS.
ATED ON LL; IF		FAIL TO ON TYPE. DUAL TECHNOLOGY, SINGLE LEVEL WALL (AIR-GAP) SWITCH SENSOR WITH MANUAL ON,
ITED	VS w	AUTO OFF SETTING, ILLUMINATED ICON PUSHBUTTON. MOUNT AT 48" A.F.F. U.O.N. EATON ONW-D SERIES. NEUTRAL REQUIRED. TIME DELAY PER OWNERSHIP. FAIL TO
IEXISTING		ON TYPE.
	VS	VACANCY SENSOR, LOW VOLTAGE WITH POWER PACK, DUAL TECHNOLOGY, CEILING MOUNTED. EATON VAC-DT SERIES OR APPROVED EQUALS. FAIL TO ON TYPE.
		OCCUPANCY SENSOR, LOW VOLTAGE WITH POWER PACK, DUAL TECHNOLOGY, WALL MOUNTED AT 10'-0" A.F.F. U.O.N EATON OAWC-DT SERIES OR APPROVED EQUALS.
	OS T	FAIL TO ON TYPE.
	VS	VACANCY SENSOR, LOW VOLTAGE WITH POWER PACK, DUAL TECHNOLOGY, WALL MOUNTED AT 10'-0" A.F.F. U.O.N EATON OAWC-DT SERIES OR APPROVED EQUALS. FAIL TO ON TYPE.
		STAND ALONE DMX CONTROLLER WITH INDIVIDUAL COLOR SELECTION WHEEL,
	SDMX	RAISE/LOWER FUNCTIONS AND PRESET SCENES. NICOLAUDIE-SUNLITE STICK-DE3 SERIES OR APPROVED EQUALS. PROVIDE ALL REQUIRED APPURTENANCES FOR A COMPLETE SYSTEM. SYSTEM PROGRAMING AND ON SITE TRAINING WITH OWNERSHIP REQUIRED.
		MISCELLANEOUS
	1 #/=# #	REFERENCE TO DRAWING NOTE.
	#/E#.#	

ELECTRICAL LEGEND:

× xx.xx

ITEMS SHOWN DASHED/HEAVY ARE TO BE REMOVED. ITEMS SHOWN SOLID/LIGHT ARE EXISTING TO REMAIN.

ELEVATION VIEW REFERENCE.

	OUTLETS
¹⁻¹ \bigoplus	DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT AT 18"A.F.F. U.O.N. SUBSCRIPT DENOTES INDICATES BRANCH CIRCUIT CONNECTION. REFER TO SPECIFICATIONS AND THIS DRAWING FOR WIRE AND CONDUIT REQUIREMENTS.
\bigoplus	DOUBLE DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT AT 18" A.F.F. U.O.N. SUBSCRIPTS: USB - PROVIDE USB IN FACEPLATE
Φ	DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT IN LINE WITH THE TOP OF MASONRY UNIT 16" A.F.F. U.O.N.
Q	DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTER MOUNT AT 18" A.F.F. U.O.N.
$\mathbf{\nabla}$	SPECIAL RECEPTACLE; TYPE AS NOTED; MOUNT AT 18" A.F.F. U.O.N.
♥₩	SLASH INDICATES DEVICE TO BE MOUNTED AT 42" A.F.F. OR 6" ABOVE COUNTER U.O.N.
	DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; WEATHERPROOF AND WEATHER RESISTANT, GROUND FAULT INTERRUPTER; MOUNT AT 18" A.F.F. U.O.N.
	DOUBLE DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; RECESSED IN FLOOR.
	POWER
	PANELBOARD; RECESSED, SURFACE MOUNTED. MOUNT AT 5'-6" A.F.F. TO TOP OF PANEL.
S™	SINGLE POLE MANUAL MOTOR STARTING SWITCH WITH HOA SWITCH; MOUNT AT 48" A.F.F. IN NEMA 1 ENCLOSURE U.O.N.
\sim	MOTOR; TYPE AS NOTED.
F L	SAFETY DISCONNECT SWITCH - FUSED, NON-FUSED. MOUNT AT 48" A.F.F. U.O.N. FUSED AS NOTED. REFER TO SPECIFICATION FOR NEMA RATING.
5	ENCLOSED CIRCUIT BREAKER. MOUNT AT 5'-6" A.F.F. TO TOP U.O.N. FUSE SIZE AS NOTED. REFER TO SPECIFICATIONS FOR NEMA RATING.
\bigcirc \bigcirc	JUNCTION BOX - CEILING MOUNTED, WALL MOUNTED. TYPE AS NOTED.
${\rm (J)}_{\rm CR}$	CORD REEL.
Ŷ	EPO PUSHBUTTON. MOUNT AT 48" A.F.F. U.O.N. (TO TOP OF DEVICE).
Τ	TRANSFORMER.
SPD	SURGE PROTECTION DEVICE.
GDS	GENERATOR DOCKING STATION.
'X	COMBINATION TYPE MOTOR STARTER - FVNR WITH CONTROL TRANSFORMER, RED AND GREEN INDICATING LIGHTS, H.O.A. SELECTOR SWITCH AND CIRCUIT BREAKER DISCONNECT SWITCH. MOUNT AT 5'-6" A.F.F. TO TOP U.O.N. FUSED AS NOTED, REFER TO SPECIFICATION FOR NEMA RATING.
(M)	ELECTRICAL METER.
	UNIT HEATER.
	WIREMOLD. TYPE AS NOTED.
	TELECOMMUNICATIONS
Α	ADMIN. DATA DROP. REFER TO DETAILS FOR CONFIGURATION. MOUNT AT 18" A.F.F. U.O.N.
SB	SMARTBOARD DROP. REFER TO DETAILS FOR CONFIGURATION. MOUNT PER MANUFACTURER RECOMMENDATIONS.
	SOUND
$\langle \underline{S} \rangle \langle \underline{S} \rangle$	SPEAKER - CEILING MOUNTED, WALL MOUNTED AT 7'-6" A.F.F. U.O.N. 'H' HORN TYPE. 'WP' WEATHERPROOF OUTDOOR SPEAKER. 'VP' VAPOR PROOF. SHALL BE CAPABLE WITH EXISTING

$\langle \underline{\underline{S}} \rangle$	SPEAKER - CEILING MOUNTED, WALL MOUNTED AT 7'-6" A.F.F. U.O.N. 'H' HORN TYPE. 'WP' WEATHERPROOF OUTDOOR SPEAKER. 'VP' VAPOR PROOF. SHALL BE CAPABLE WITH EXISTING BOGEN HEAD END MCP 35A.
	PA CALL SWITCH - WALL MOUNTED AT 48" A.F.F. TO TOP OF DEVICE. SINGLE GANG BACK BOX WITH 3/4" CONDUIT AND PULL STRING TERMINATED IN BUSHED ENDS TO ACCESSIBLE CEILING. SHALL BE CAPABLE WITH EXISTING BOGEN HEAD END MCP 35A.
	<u>SECURITY</u>
# ⊲	SURVEILLANCE CAMERA. FOR REFERENCE ONLY

 $| \texttt{#} | \triangleleft$

ABB	REVIATIONS:
	AMPERE, AMPERES
	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
	ABOVE FINISHED GRADE
	AMPERE INTERRUPTING CAPACITY
	AUTOMATIC TRANSFER SWITCH
	AMERICAN WIRE GAUGE
	BASIS OF DESIGN
BLC	BUILDING LIGHTING CONTROL PANEL
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
С	
	CIRCUIT BREAKER
	DRAWING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN EMERGENCY POWER OFF
EPO	
EIR	
	ELECTRIC WATER COOLER
	EXISTING FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	FULL LOAD AMPERES
	FUSED SAFETY SWITCH
G	GROUND
GFEP	
GFI	GROUND FAULT INTERRUPTING
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HWG	HOT WATER HEATER GENERATOR

KW KILOWATT

LMS LUMENS

MTD MOUNTED

NO NUMBER

TYP TYPICAL

UH UNIT HEATER

XFMR TRANSFORMER

OS OC

PNL

VS

VR

WP

W

Р

IDF INTERMEDIATE DISTRIBUTION FRAME IMC INTERMEDIATE METAL CONDUIT

KCMIL THOUSAND CIRCULAR MILS

LFS LIGHT FIXTURE SCHEDULE

LOS LIGHTING OVERRIDE SWITCH LRA LOCKED ROTOR AMPERES

MCA MINIMUM CIRCUIT AMPERES MCB MAIN CIRCUIT BREAKER

MDF MAIN DISTRIBUTION FRAME

MPOP MAIN POINT OF PRESENCE

MH MOUNTING HEIGHT/MANHOLE

NEC NATIONAL ELECTRICAL CODE

NFSS NON-FUSED SAFETY SWITCH

OCCUPANCY SENSOR

ON CENTERS

POLE, POLES

PVC POLYVINYL CHLORIDE RAF RETURN AIR FAN

RGS RIGID GALVANIZED STEEL RX REMOVE EXISTING

VACANCY SENSOR

VANDAL RESISTANT

WATTS, WIRE, WIRES

TTB TELEPHONE TERMINAL BOARD

UTP UNSHIELDED TWISTED PAIR

U.O.N. UNLESS OTHERWISE NOTED

WEATHERPROOF

VOLT, VOLTS

SSBJ SUPPLY SIDE BONDING JUMPER

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR

PHASE PANEL

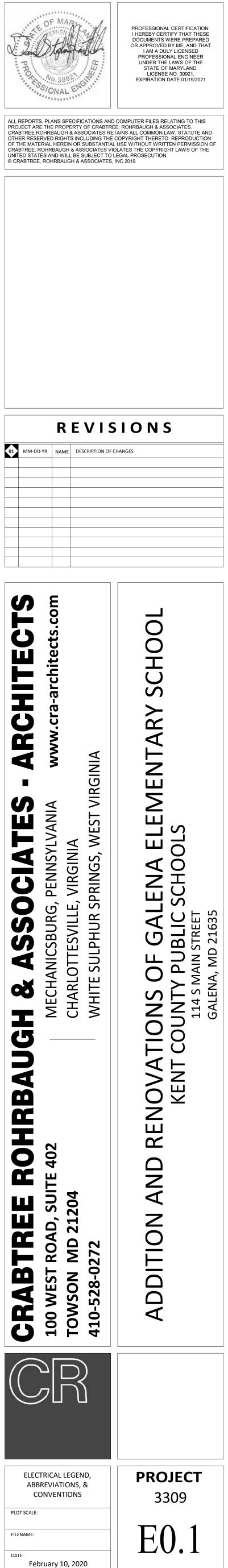
N.L.P. NETWORKED LIGHTING CONTROL PANEL

NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION

MLO MAIN LUGS ONLY

MSB MAIN SWITCHBOARD

KVA KILOVOLT-AMPERES



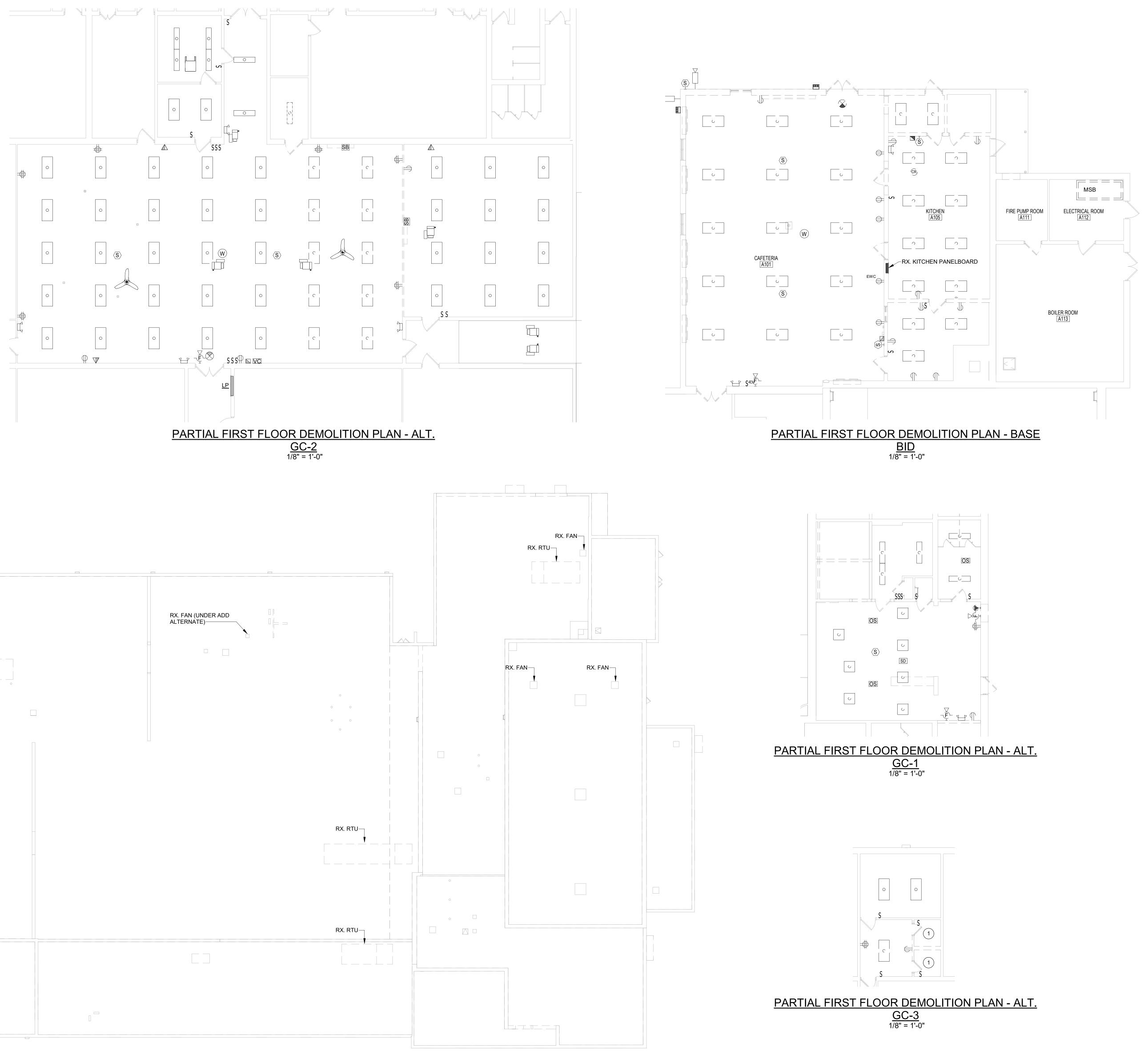
	LIGHTING FIXTURE SCHEDULE												
TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	MAX. ALLOCATED WATTAGE	LAMPS	MOUNTING	REMARKS					
F	2'w x 4'l x 2"d (INCLUDING DRIVER) FLAT PANEL STYLE LED LUMINAIRE WITH NARROW ALUM. BEZEL, SEAMLESS CORNERS, 80+ CRI MIN., WHITE FROSTED LENS, 2 TO 1 MAX/MIN RATIO FOR SURFACE UNIFORMITY AND INTEGRAL 0-10V DIMMING DRIVER	METALUX [ORACLE LIGHTING] [SNOWBALL LIGHTING]	24FP4740C SERIES [24 FPL1 SERIES] [G2ETP SERIES]	277 V	42.0 W	LED, 4000k, 4658lms	CEILING, RECESSED						
F1	1'w x 4'I x 2"d (INCLUDING DRIVER) FLAT PANEL STYLE LED LUMINAIRE WITH NARROW ALUM. BEZEL, SEAMLESS CORNERS, 80+ CRI MIN., WHITE FROSTED LENS, 2 TO 1 MAX/MIN RATIO FOR SURFACE UNIFORMITY AND INTEGRAL 0-10V DIMMING DRIVER	METALUX [ORACLE LIGHTING] [REVOLUTION LIGHTING]	14FP4240C SERIES [14 FPL1 SERIES] [G2ETP SERIES]	277 V	40.0 W	LED, 4000k, 4389lms	CEILING, RECESSED						
F2	2'w x 2'l x 2"d (INCLUDING DRIVER) FLAT PANEL STYLE LED LUMINAIRE WITH NARROW ALUM. BEZEL, SEAMLESS CORNERS, 80+ CRI MIN., WHITE FROSTED LENS, 2 TO 1 MAX/MIN RATIO FOR SURFACE UNIFORMITY AND INTEGRAL 0-10V DIMMING DRIVER	METALUX [ORACLE LIGHTING] [REVOLUTION LIGHTING]	22FP4240C SERIES [22 FPL1 SERIES] [G2ETP SERIES]	277 V	40.0 W	LED, 4000k, 4567lms	CEILING, RECESSED						
FH	2'w x 4'l x 2"d (INCLUDING DRIVER) FLAT PANEL STYLE LED LUMINAIRE WITH NARROW ALUM. BEZEL, SEAMLESS CORNERS, 80+ CRI MIN., WHITE FROSTED LENS, 2 TO 1 MAX/MIN RATIO FOR SURFACE UNIFORMITY AND INTEGRAL 0-10V DIMMING DRIVER	METALUX [ORACLE LIGHTING] [SNOWBALL LIGHTING]	24FP6440C SERIES [24 FPL1 SERIES] [G2ETP SERIES]	277 V	42.0 W	LED, 4000k, 6838lms	CEILING, RECESSED						
G	2'w x 4'I x 3.5"d VOLUMETRIC STYLE LED LUMINAIRE WITH DMX DRIVER/CONTROL INPUT, FULL RANGE COLOR CHANGING (+3000k WHITE), STEEL CONSTRUCTION, FROSTED ACRYLIC DIFFUSE LENSES AND DAMP LOCATION RATED.	CORONET LIGHTING [PINNACLE LIGHTING] [OR APPROVED EQUALS]	TDJA.2x4.RGBW.LTG3.UNV.DMX.W.x.x SERIES [LUCEN SERIES]	277 V	90.0 W	LED, RGBW	CEILING, RECESSED						

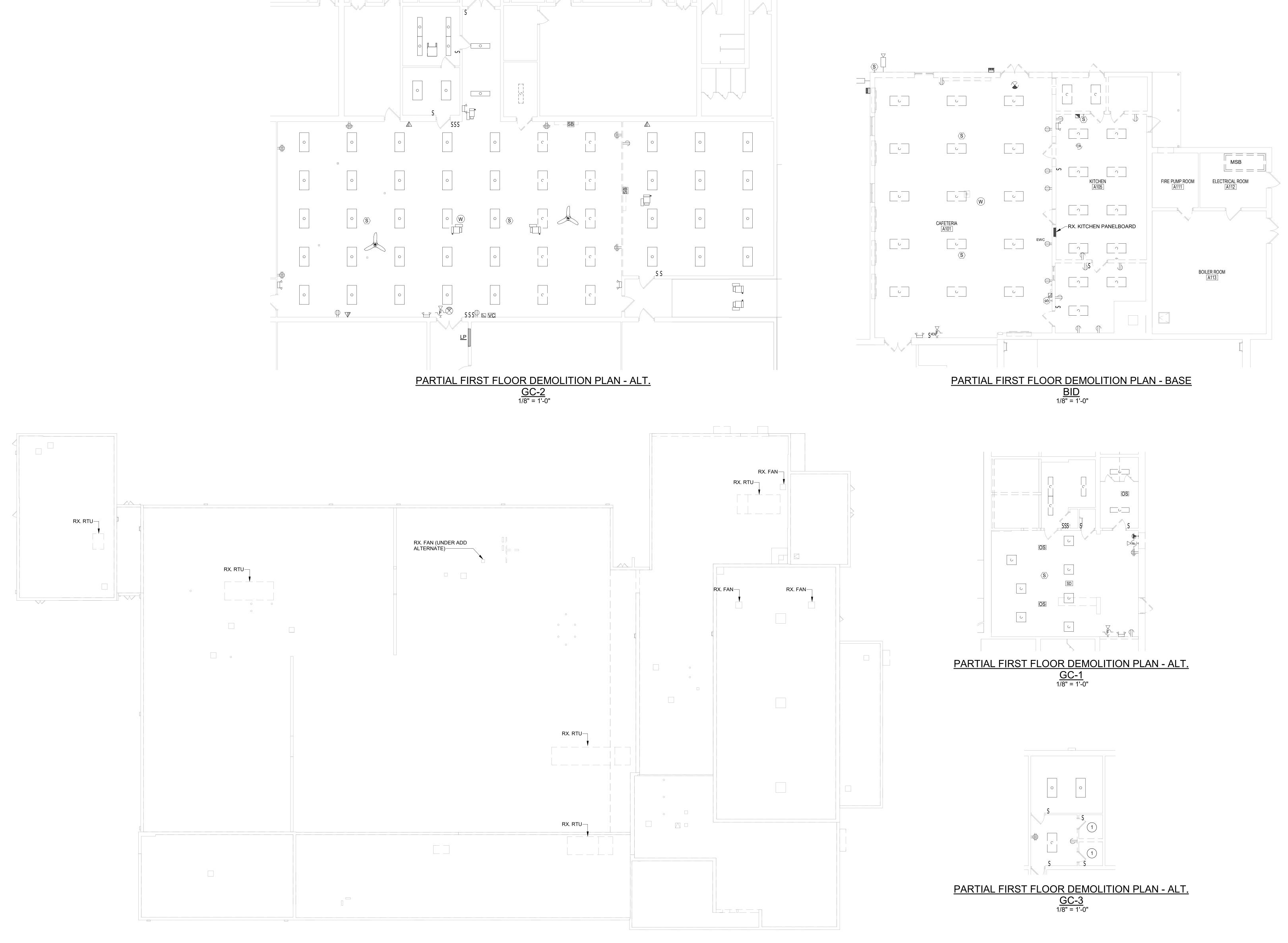
- 1. PROVIDE ALL 0-10V DIMMING DRIVERS PREWIRED WITH ISOLATE LEADS. WHEN A DIMMING DRIVER IS PROVIDED BUT ONLY CALLED FOR STATIC OPERATION, CAP 0-10V LEADS AND LEAVE IN PLACE, ENSURE LUMINAIRE STILL OPERATES AT 100% OUTPUT.
- 2. COORDINATE LIGHTING FIXTURES INDICATED ON DRAWINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS. VERIFY CEILING CONSTRUCTION IN ALL AREAS WITH ARCHITECTURAL DRAWINGS AND PROVIDE ALL MOUNTING FRAMES/HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION SUITABLE FOR THE CEILING TYPE.
- 3. IN SPRINKLERED AREAS, MAINTAIN ADEQUATE SPACING BETWEEN FIXTURES AND SPRINKLER HEADS PER COUNTY FIRE MARSHAL REQUIREMENTS.
- 4. ALL LOW VOLTAGE, CLASS 2 WIRING FROM A REMOTE POWER SUPPLY TO LUMINAIRE SHALL BE IN CONDUIT.
- 5. ALL DIMMING DRIVERS OR DIMMING BALLASTS SHALL BE COORDINATED WITH DIMMER/DIMMING SYSTEM TO ENSURE FLICKER FREE DIMMING DOWN TO 10% UNLESS SPECIFIED TO LOWER PERCENTAGE IN LIGHT FIXTURE SCHEDULE.
- 6. WHERE RECESSED LIENAR RUNS ARE SHOWN WITH NORMAL AND EMERGENCY POWER, HOUSING AND LENSING SHALL BE CONTINUOUS. PROVIDE SEPERATE EMERGENCY WIRING TO INDICATED LENGTH OF RUN ON EMERGENCY CIRCUIT.
- 7. COORDINATE ALL EXIT SIGN MOUNTING POINTS WITH ARCHITECTURAL DRAWINGS, MILLWORK DRAWINGS AND ALL OTHER TRADES PRIOR TO ROUGH-IN. SUBMIT PROPOSED CONDUIT ROUTING AND MOUNTING STYLE TO ARCHITECT FOR ALL EXIT SIGNAGE BEING MOUNTED TO WINDOW MULLIONS PRIOR TO ROUGH-IN.
- 8. PROVIDE ALL DRIVERS AS UNIVERSAL VOLTAGE.
- 9. PROVIDE INDEPENDANT DIMMING DRIVERS FOR PORTIONS OF LUMINAIRES IN LOCALIZED CORRIDOR DAYLIGHT ZONES. 10. MODEL NUMBERS ARE FOR REFERENCE ONLY. SUBMIT SHOP DRAWINGS BASED ON ENTIRE SCHEDULE AND DRAWING

LFX NOTES:

INFORMATION.







ROOF PLAN - DEMOLITION 1/16" = 1'-0"

GENERAL NOTES:

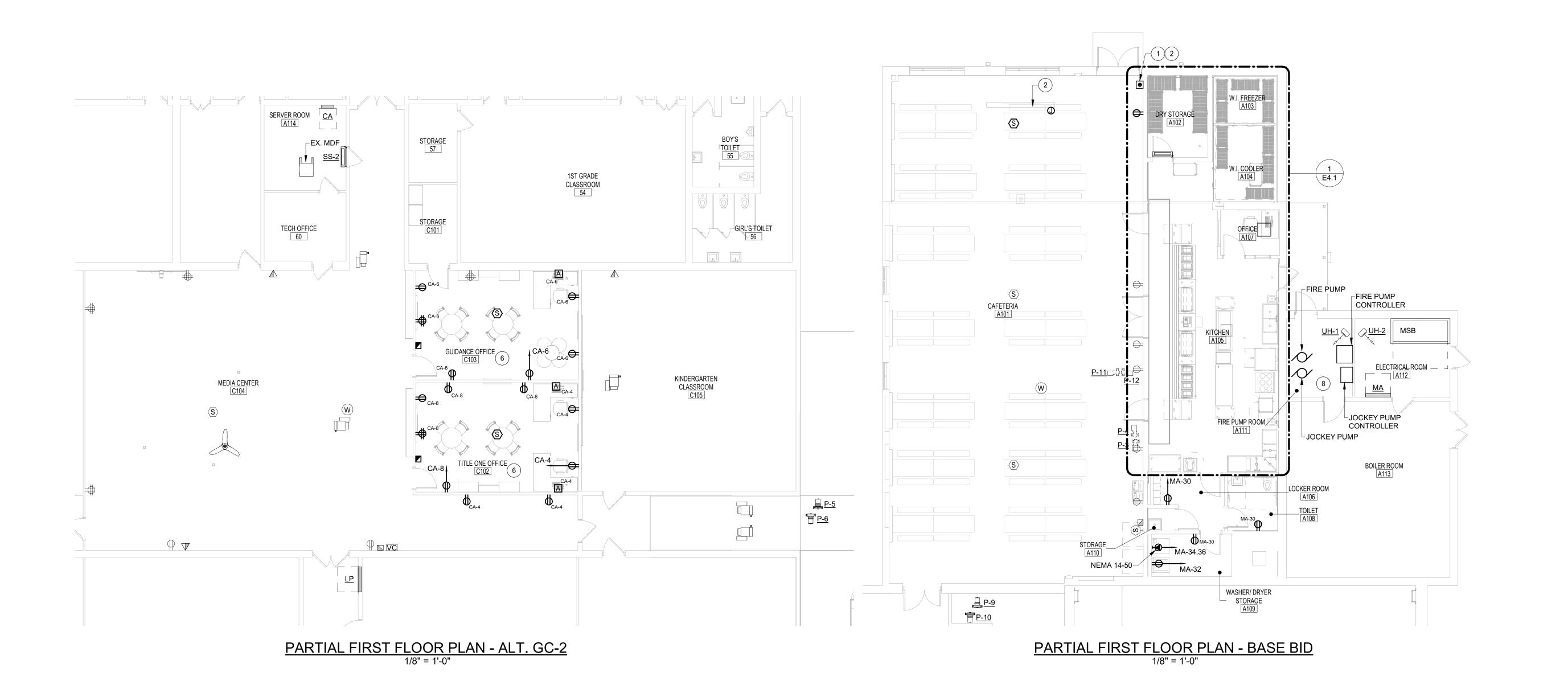
1

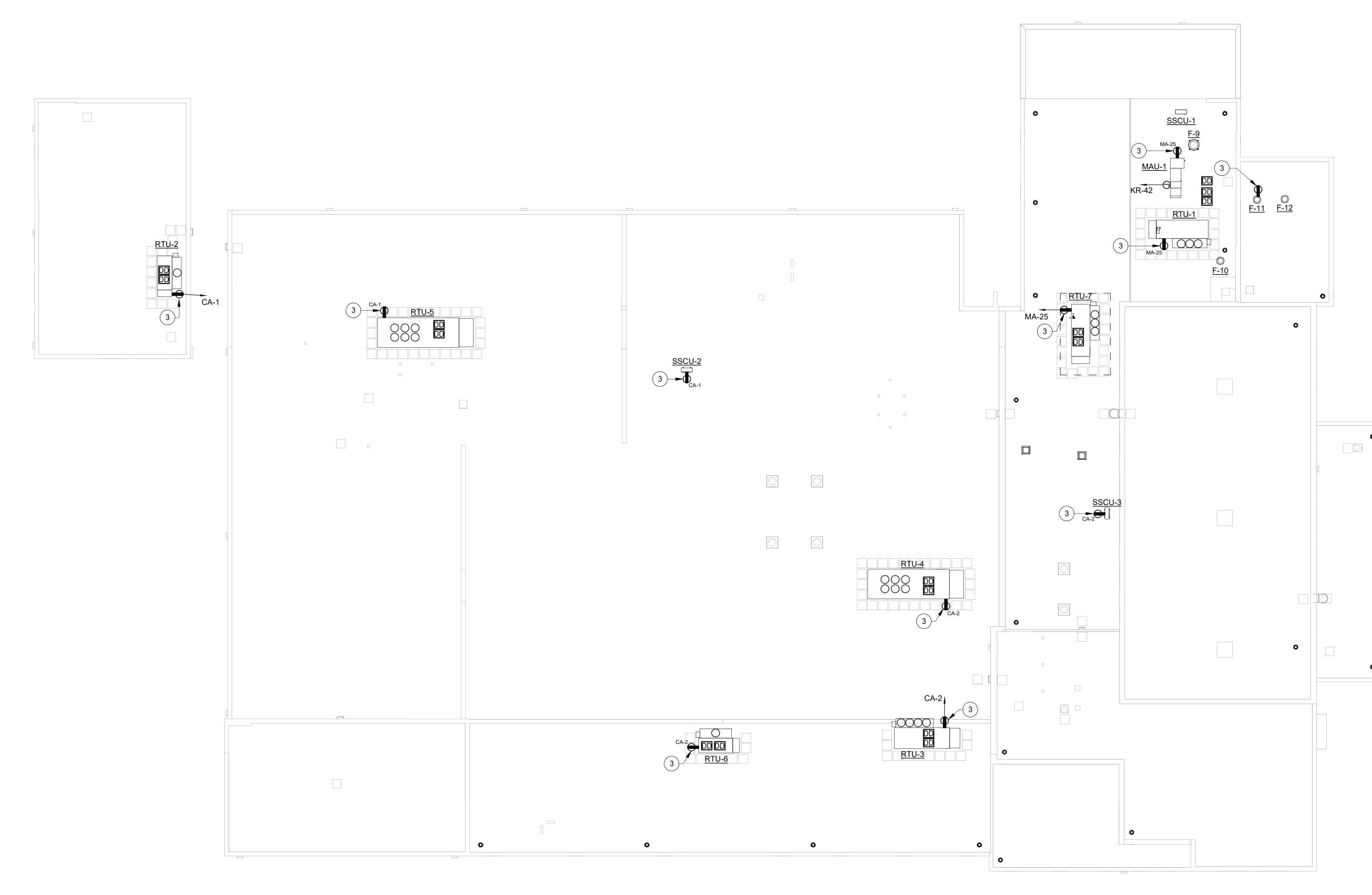
MAINTAIN EXISTING LIGHTING CIRCUIT FOR DEMOLISHED FIXTURES. CIRCUIT SHALL BE REUSED FOR NEW LIGHTING FIXTURES.

DRAWING NOTES:

(1)DEMOLISH WALL MOUNTED LIGHTING FIXTURE. MAINTAIN CIRCUIT FOR FUTURE CONNECTION OF NEW LIGHTING FIXTURE AND RECEPTACLE IN NEW BATHROOMS. EXTEND WIRING AS REQUIRED, (2) #12 + #12GW - 3/4"C.







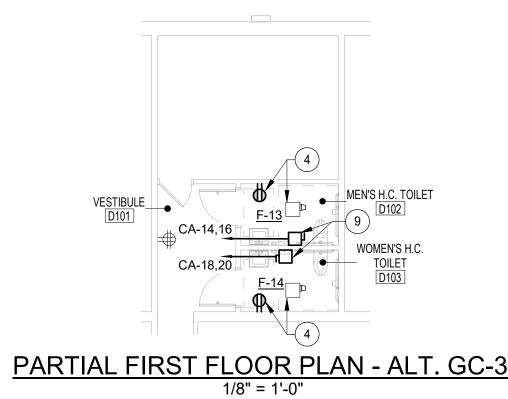
ROOF PLAN - ELECTRICAL

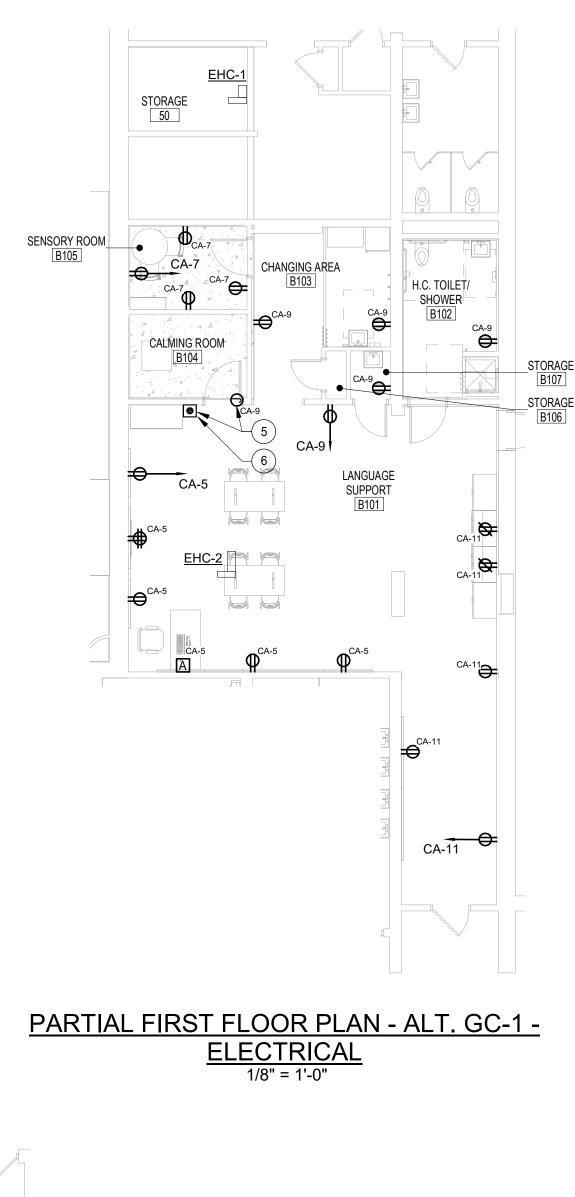
GENERAL NOTES:

PUMPS ARE LOCATED ABOVE ACCESSIBLE CEILING BELOW ASSOCIATED RTUS. DUCT DETECTORS INDICATED ARE LOCATED IN CEILING SPACE BELOW. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE WITH REMOTE TEST STATION IN CEILING GRID BELOW DUCT DETECTOR. REFER TO DRAWING E7.1 FOR ADDITIONAL MECHANICAL EQUIPMENT CONNECTION INFORMATION.

DRAWING NOTES:

- 1 COORDINATE LOCATION OF UP/DOWN ROCKER SWITCH WITH OWNER PRIOR TO INSTALLATION.
- 2 PROVIDE ALL INTERCONNECTIONS BETWEEN PROJECTOR SCREEN AND CONTROLLER, IN CONDUIT, AS REQUIRED BY MANUFACTURER.
- 3 REFER TO ELECTRICAL DETAILS FOR CONDUIT PENETRATIONS AND MOUNTING OF OUTLETS ON ROOF.
- 4 MAKE CONNECTION TO EXISTING CIRCUIT MAINTAINED DURING DEMOLITION.
- 5 MOUNT TO SUIT ELECTRIFIED DOOR POWER SUPPLY AND MAKE ALL INTERCONNECTIONS TO ASSOCIATED PUSHBUTTON.
- 6 PUSHBUTTON TO ACTIVATE DOOR LOCK. DOOR SHALL ONLY LOCK WHILE BUTTON IS HELD. TIE INTO FIRE ALARM SYSTEM FOR FAILSAFE TO UNLOCK.
- PROVIDE CONNECTION TO TWO SOLATUBES LOCATED IN CEILING.
 COORDINATE LOCATION OF DIMMER SWITCH FURNISHED BY
 OTHERS WITH OWNER PRIOR TO INSTALLATION. CONNECT TO
 PANELBOARD <u>CA</u> (CKT CA-12) REFER TO PANELBOARD SCHEDULE
 FOR ADDITIONAL INFORMATION.
- (8) LOCATE 15 TAMPER SWITCHES, AND 3 FLOW SWITCHES IN FIRE PUMP ROOM A111. VERIFY QUANTITY WITH INSTALLING CONTRACTOR PRIOR TO PURCHASING.
- 9 PROVIDE 2P-30A-NF/SS IN NEMA 1 ENCLOSURE. MOUNT ABOVE ACCESSIBLE CEILING AND CONNECT TO EQUIPMENT BEING SERVED.



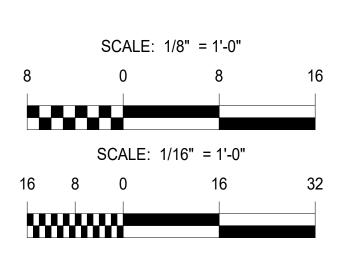




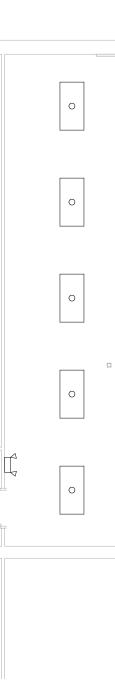
<u>P-7</u>

<u>Е</u> <u>Р-8</u>

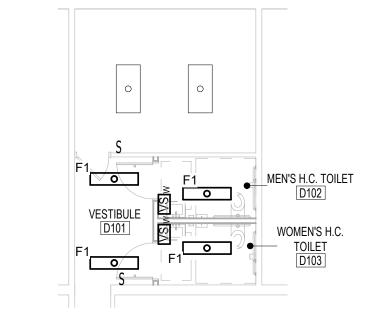
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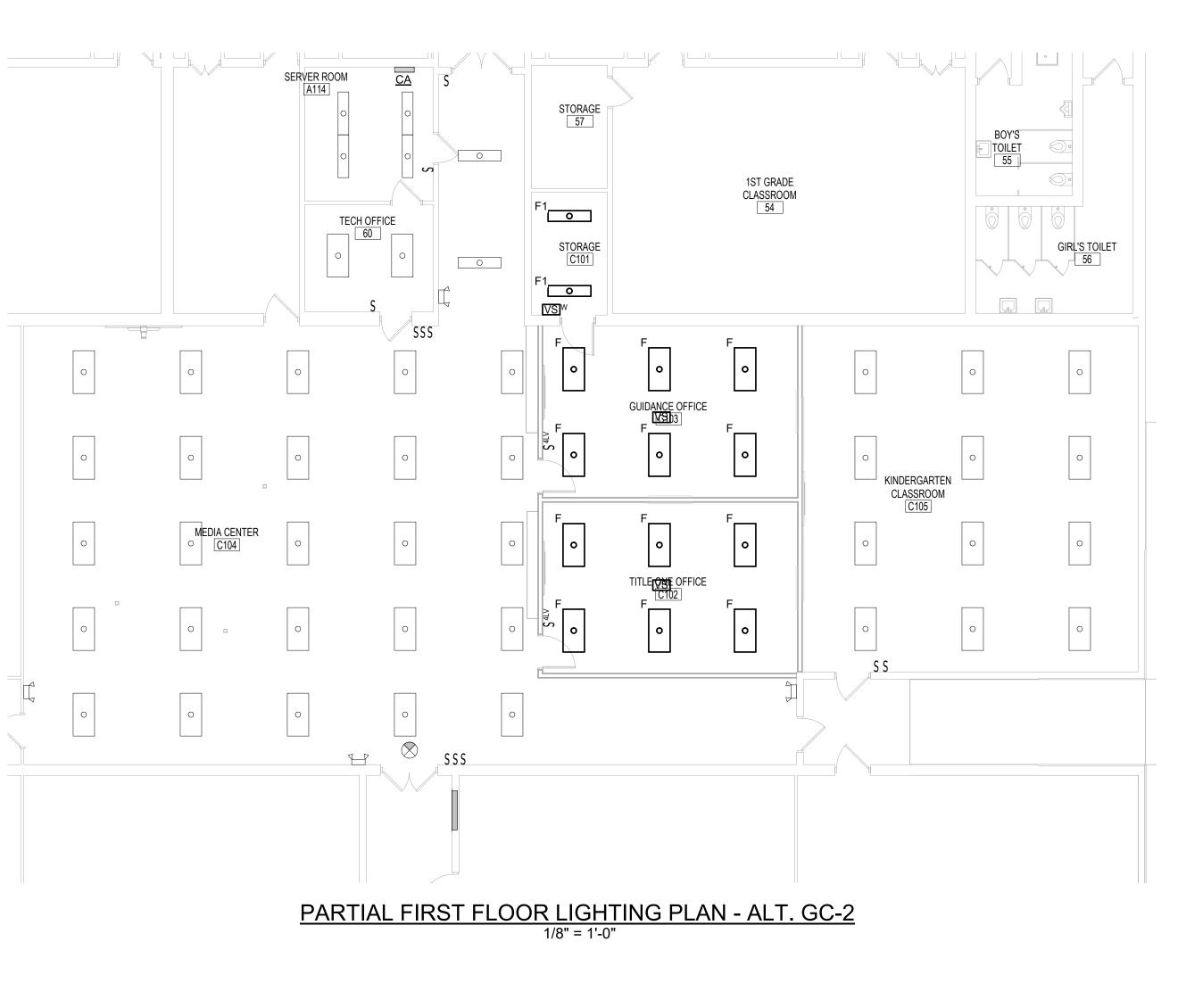






PARTIAL FIRST FLOOR LIGHTING PLAN - ALT. GC-3 1/8" = 1'-0"

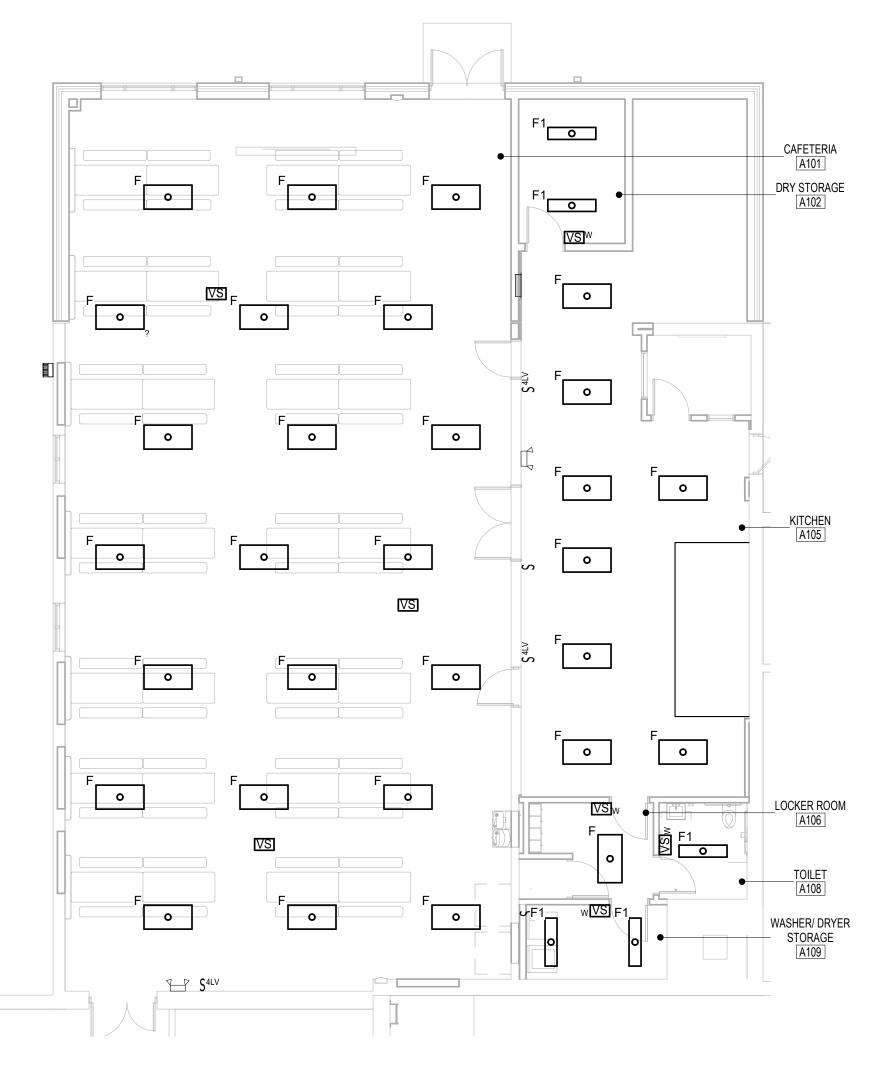




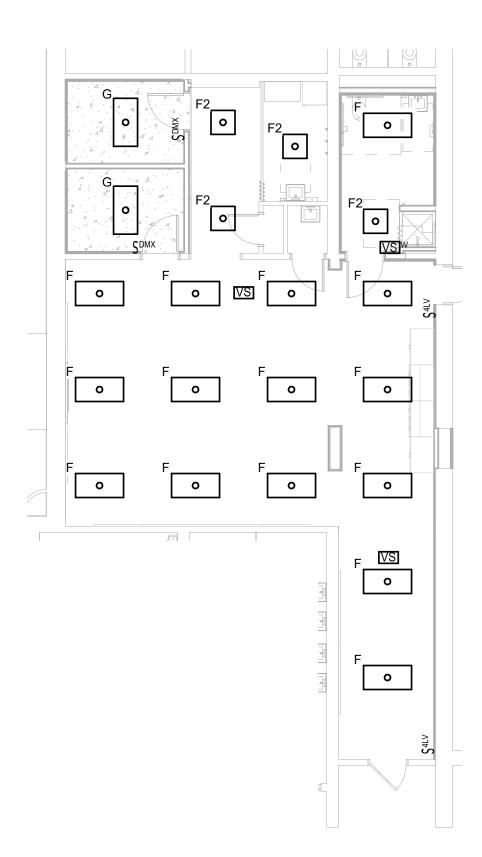
GENERAL NOTES: CONNECT LIGHTING FIXTURES TO EXISTING CIRCUIT, MAINTAINED DURING

1

DEMOLITION.



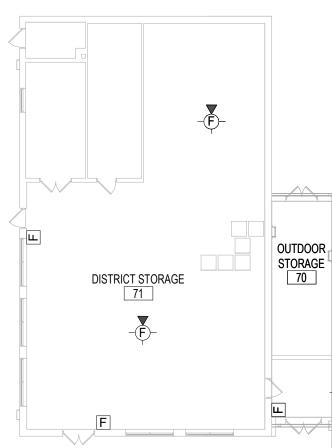
PARTIAL FIRST FLOOR LIGHTING PLAN - BASE BID 1/8" = 1'-0"

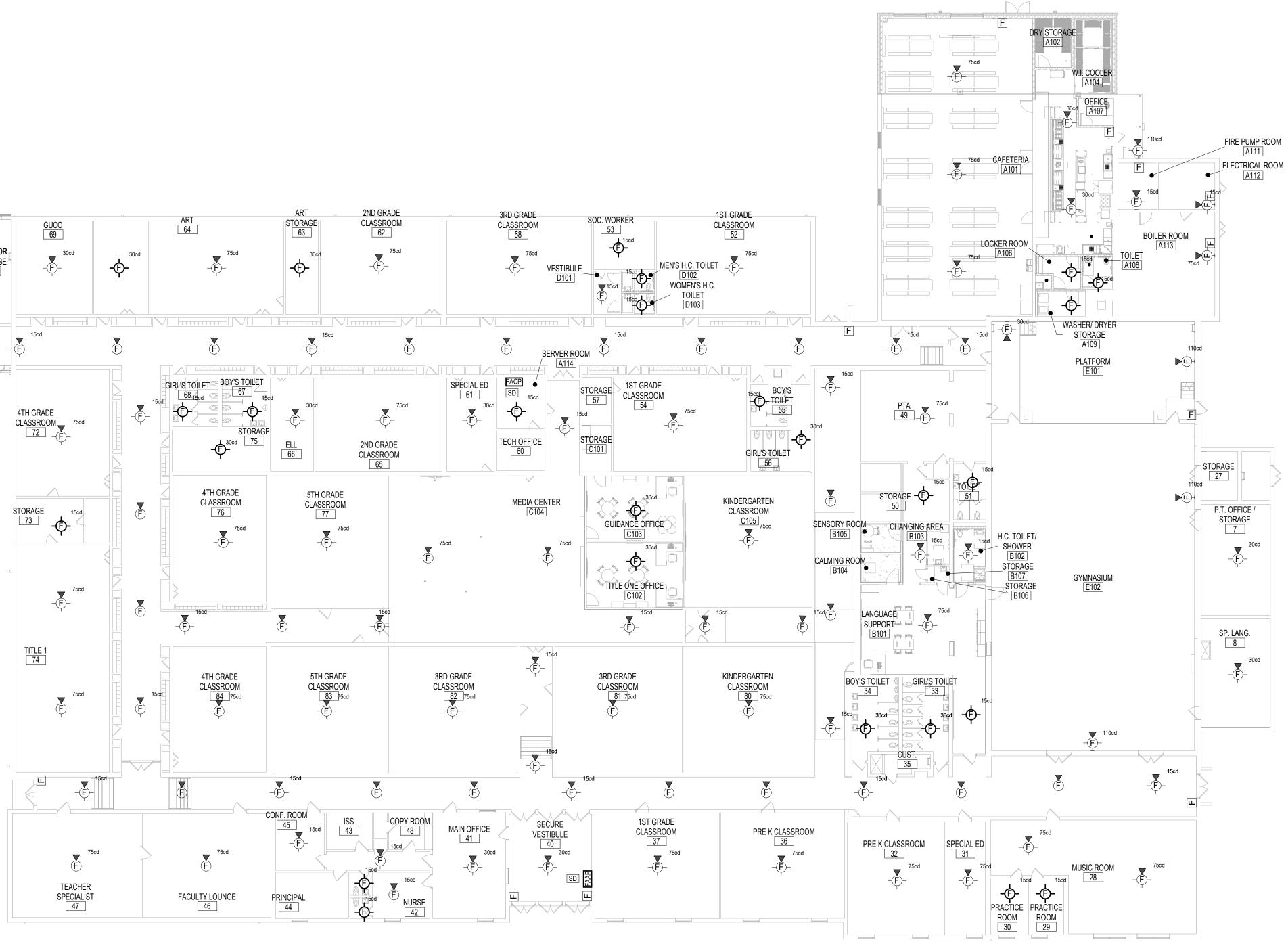


PARTIAL FIRST FLOOR PLAN - ALT. GC-1 - LIGHTING 1/8" = 1'-0"

SCALE: 1/8" = 1'-0" 16

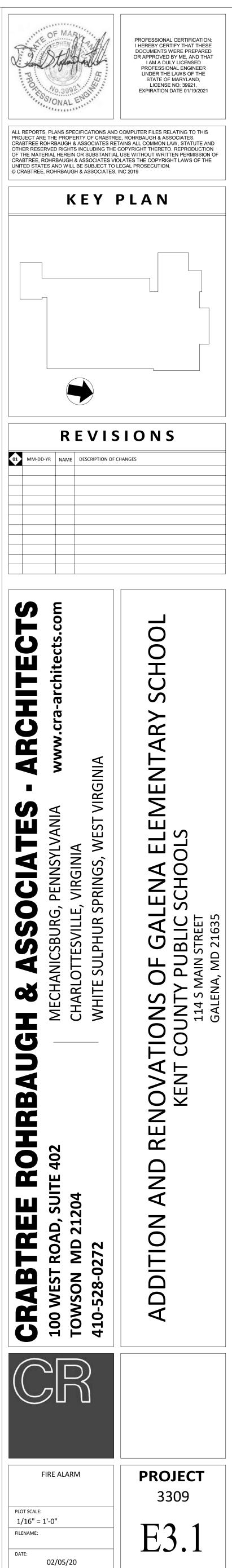


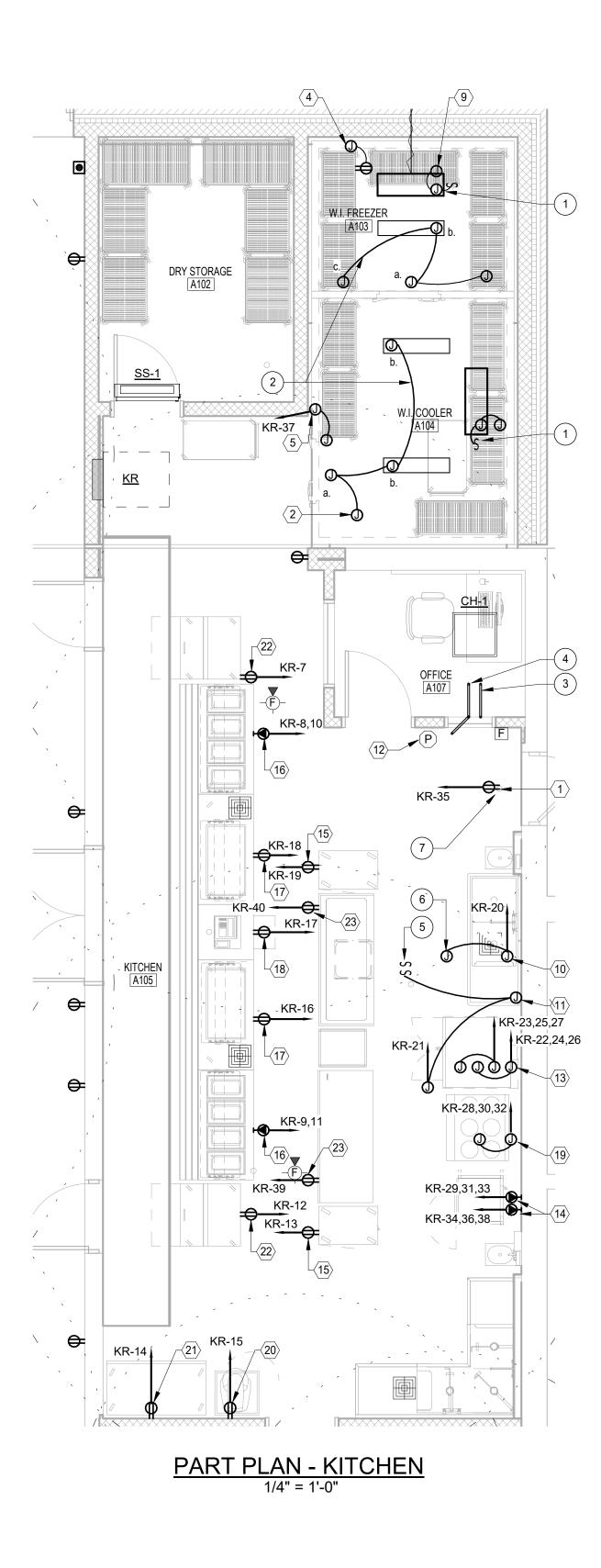




FIRST FLOOR - FIRE ALARM 1/16" = 1'-0"

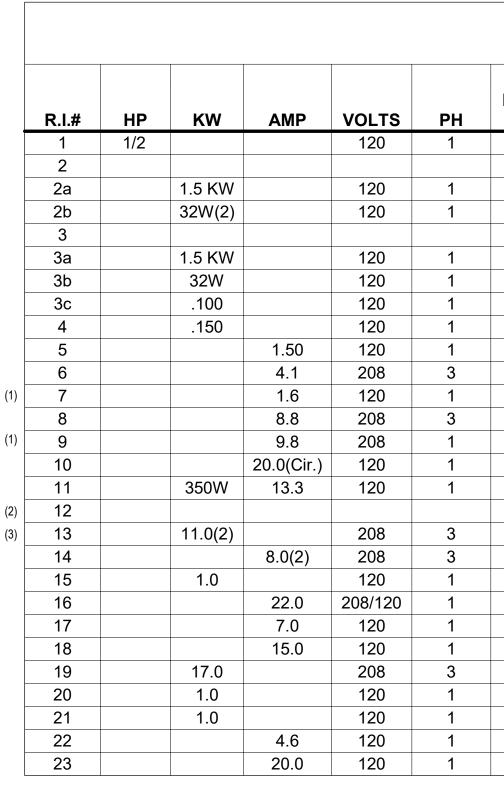
SCALE: 1/16" = 1'-0" 16 8 0 32 16





KITCHEN EQUIPMENT CONNECTION SCHEDULE NOTES:

- FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
- ELECTRICAL SYSTEM IS DESIGNED FOR 480/277,3PH,4W & 208/120V,3PH,4W.
- 4
- ELECTRICAL CONTRACTOR SHALL PERFORM FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT.
- CONDUIT IS MINIMUM 3/4".
- ELECTRICAL CONTRACTOR OR EQUIVALENT, SHALL FURNISH AND INSTALL THE FOLLOWING: 7.
 - A. ALL PLUGS AND CORDS AS NOTED ON SCHEDULE. ALL CORDS SHALL BE NEMA RATED AND UL APPROVED FOR MANUFACTURED AND FABRICATED EQUIPMENT. Β. JUNCTION BOXES, ETC. IN DISHROOMS SHALL BE MOISTURE-PROOF.
- DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODE.
- INTERWIRE BETWEEN THE FOLLOWING: Α
- REMOTE REFRIGERATION SYSTEMS TO EVAPORATOR COILS. KITCHEN EXHAUST HOODS/VENTIALTORS AND EXHAST SUPPLY FANS PER MANUFACTURER'S INSTRUCTIONS.
- 10. ALL RECEPTACLES SHALL BE GFCI TYPE UNLESS OTHERWISE NOTED.



(1) SEE SHEET ??? FOR EXACT LOCATION. ITEM FURNISHED W/MAIN-FUSED DISCONNECT SWITCH. (2) EXTEND CONDUIT DOWN FROM JUNCTION BOX MOUNTED ABOVE FINISH CEILING TO CONTROL PANEL BY E.C. SEE SHEET K-502 & K-503 FOR FURTHER VENTILATOR DETAILS. (3) EXTEND 1/2" DIA. OPEN RIGID CONDUIT FROM TOP OF PULL BOX UP IN WALL TO 6" ABOVE FINISH CLG. BY E.C.

NOTE: ITEM # E4 RANGE W/ OVEN BASE. ELECTRICAL CONTRACTOR TO FIELD VERIFY UTILITY LOAD REQUIREMENTS.

DRAWING NOTES:

(1) CAT 5 CABLE TO MGR. OFFICE FOR TEMP. MONITORING BY E.C.

2) RUN ALL CONDUIT ABOVE WALK-IN CLG. SEE LIGHT FIXTURE DETAIL BELOW. (3) 1" DIAMETER OPEN RIGID CONDUIT DOWN IN WALL AND OUT @ 12" AFF BY E.C. CAT 5 CABLE FOR TEMP. MONITORING.

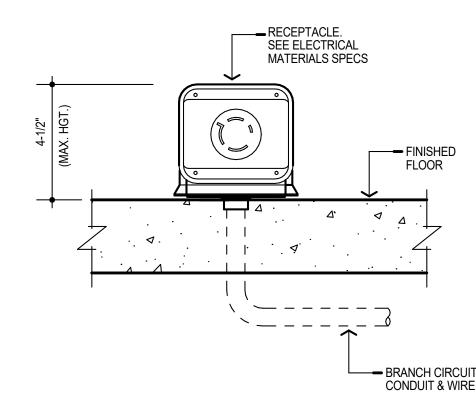
(4) 1" DIAMETER OPEN RIGID CONDUIT IN FLOOR AND UP IN WALL AND OT @ 12" AFF BY E.C.

5) 208V/3PH WIRING FROM FAN SWITCH ON HOOD TO EXHAUST AND SUPPLY FANS ON ROOF BY E.C

(6) WIRING FROM MICRO-SWITCH ON FIRE PROTECTION SYSTEM CONTROL PANEL TO SHUNT-TRIP BREAKERS

FOR FIRE-FUEL SHUT-OFF BY E.C.

7) MAKE CONNECTION AT AIR CURTAIN. MOUNT CONTROLLER FURNISHED WITH UNIT AT WALL (COORDINATE EXACT LOCATION WITH KCPS PRIOR TO INSTALLATION). PROVIDE ALL INTERWIRING AND CONDUIT AS REQUIRED.



ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO FOOD SERVICE AND FIXTURES ONLY. SEE KITCHEN FOODSERVICE AND ENGINEERING PLANS

THIS PLAN SHOW INTENDED ROUGH-IN OUTLET TYPES, LOCATIONS AND HEIGHTS, AS WELL AS CONNECTION POSITIONS AND LOAD REQUIREMNETS. DIMENSIONS SHOWN ARE FROM FINISHED FLOOR/WALLS. VERIFY FINISH WALL PARTITION LOCATIONS WITH ARCHITECUTRAL DRAWINGS. ALL ELECTRICAL WORK FOR FABRICATED FOODSERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY THE FABRICATION CONTRACTOR TO A COMMON JUNCTION BOX, PULL BOX OR CONTROL PANEL ON THE EQUIPMENT IN AN ACCESSIBLE POSITION. FINAL CONNECTIONS TO EQUIPMENT PULL BOX/JUNCTION BOX AND ALL ELECTRICAL WORK FROM PANELOBARDS SHALL BE BY ELECTRICAL CONTRACTOR.

ALL CONDUIT, PIPING AND/OR SIMILAR CONSTRUCTION, LOCATED OUTSIDE WALL, MUST BE INSTALLED SUCH THAT SPACE BETWEEN WALL AND

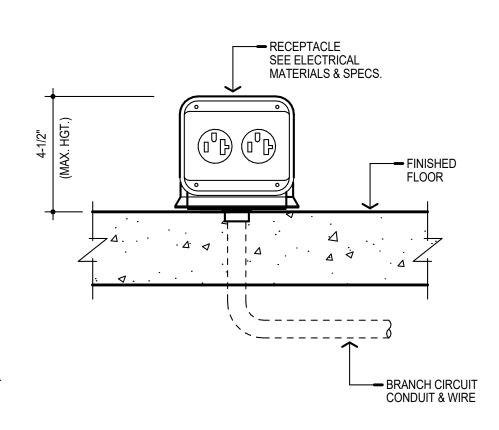
ALL ELECTRICAL OUTLETS, SWITCHES, COVERPLATES, JUNCTION BOXES, ETC. NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLET,

SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE CONTROL SYSTEM SHUT-OFF OF FOODSERVICE EQUIPMENT BENEATH HOODS/VENTILATORS AS REQUIRED BY LOCAL CODES AND NFPA 96 (LATEST EDITION). WHERE REQUIRED THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AND CONDUIT, INSTALL ELECTRICAL COMPONENTS PROVIDED BY KEC, AND

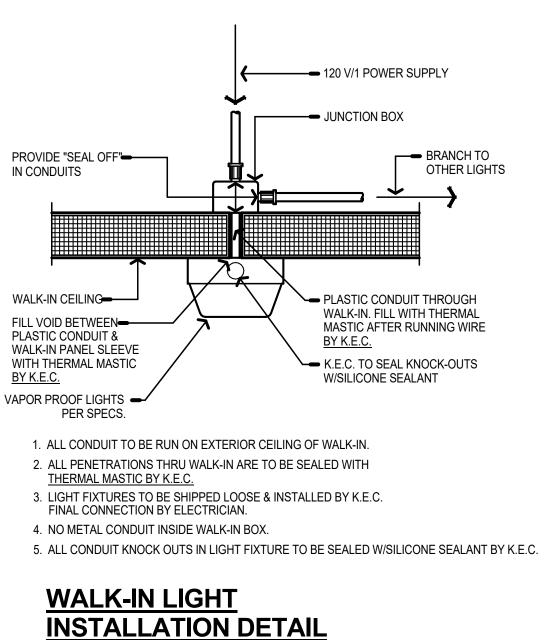
WALK-IN COOLER/FREEZER LIGHT (CONDUIT SHALL BE RAN ABOVE COMPARTMENT CEILING)

9. REVIEW AND PROVIDE/INSTALL ALL ADDITIONAL REQUIRED CONDUIT, WIRING, DISCONNECTS, ETC. INDICATED ON FOODSERVICE PLANS FOR ANY TYPE OF EQUIPMENT FOR ANY TYPE OF EQUIPMENT DESIGNED FOR THIS PROJECT NOT INDICATED IN THIS DRAWING.

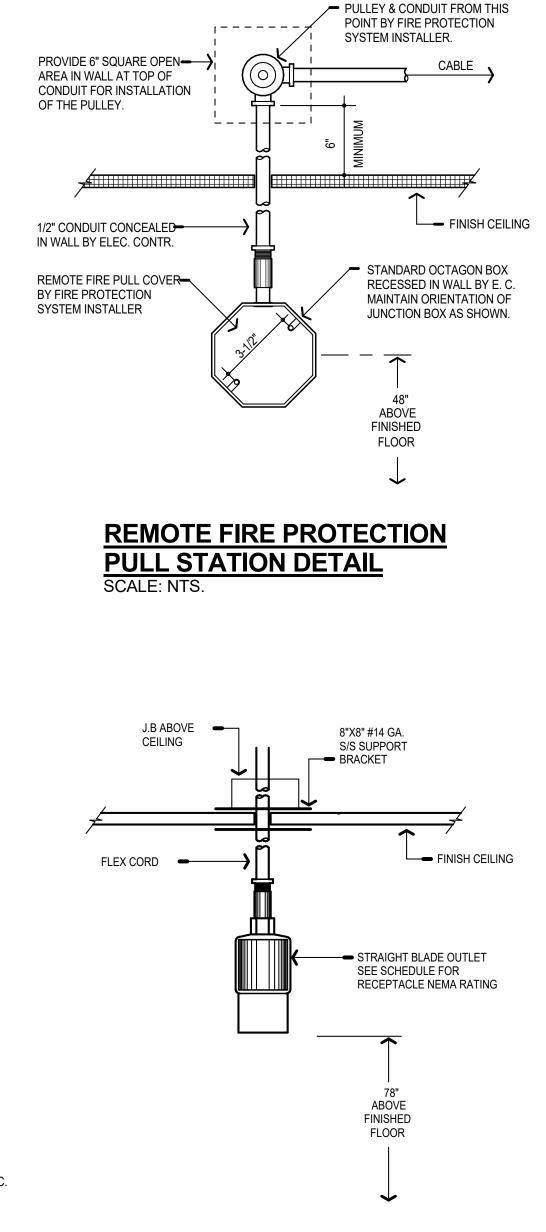
EL	ECTRICAL SCHEDULE					
				E.C. TO P	ROVIDE	
R.I. HGT. A.F.F.	DESCRIPTION	E.Q. NO.	CORD & PLUG	RECEP.	DISC.	J.B.
50"	FLY FAN RECEP.	1		0		
114"	BRANCH TO:					0
	DOOR LIGHT, HEATER, ALARM	2				
	L.E.D. LIGHT FIXTURE (2)	2				
114"	BRANCH TO:					0
	DOOR LIGHT, HEATER, ALARM	2				
	L.E.D. LIGHT FIXTURE	2				
	HEATED RELIEF PORT	2				
	DRAIN LINE HEAT TAPE RECEP.	2		0		0
50"	AIR SCREEN RECEP.	2		0		0
STUB	COOLER COMPRESSOR RACK	3				0
114"	COOLER BLOWER COIL	3				0
STUB	FREEZER COMPRESSOR RACK	4				0
114"	FREEZER BLOWER COIL	4				0
108"	FIRE PROTECTION SYSTEM	9				0
114"	VENTILATOR LIGHT CONTROLLER	9				0
48"	HEXAGON J-BOX, FIRE PULL	9				0
24"/36"	CONVECTION OVEN	10				0
24"/36"	CONVECTION STEAMER	11				
@CLG.	HEATED CABINET RECEP.	E10		0		
STUB	HOT FOOD COUNTER RECEP.	14a		0		
STUB	FROST TOP COUNTER RECEP.	14b		0		
STUB	CASH REGISTER RECEP.	15		0		
24"	RANGE	E4				0
36"	MIXER RECEP.	E5		0		
50"	REACH-IN REFRIGERATOR RECEP.	E7		0		
48"	MILK COOLER RECEP.	E11		0		
@CLG.	RETRACTABLE CORD REEL RECEP.	19		0		



FLOOR RECEPTACLE DETAIL SCALE: NTS.



SCALE: NTS.



SUSPENDED RECEPTACLE DETAIL SCALE: NTS.

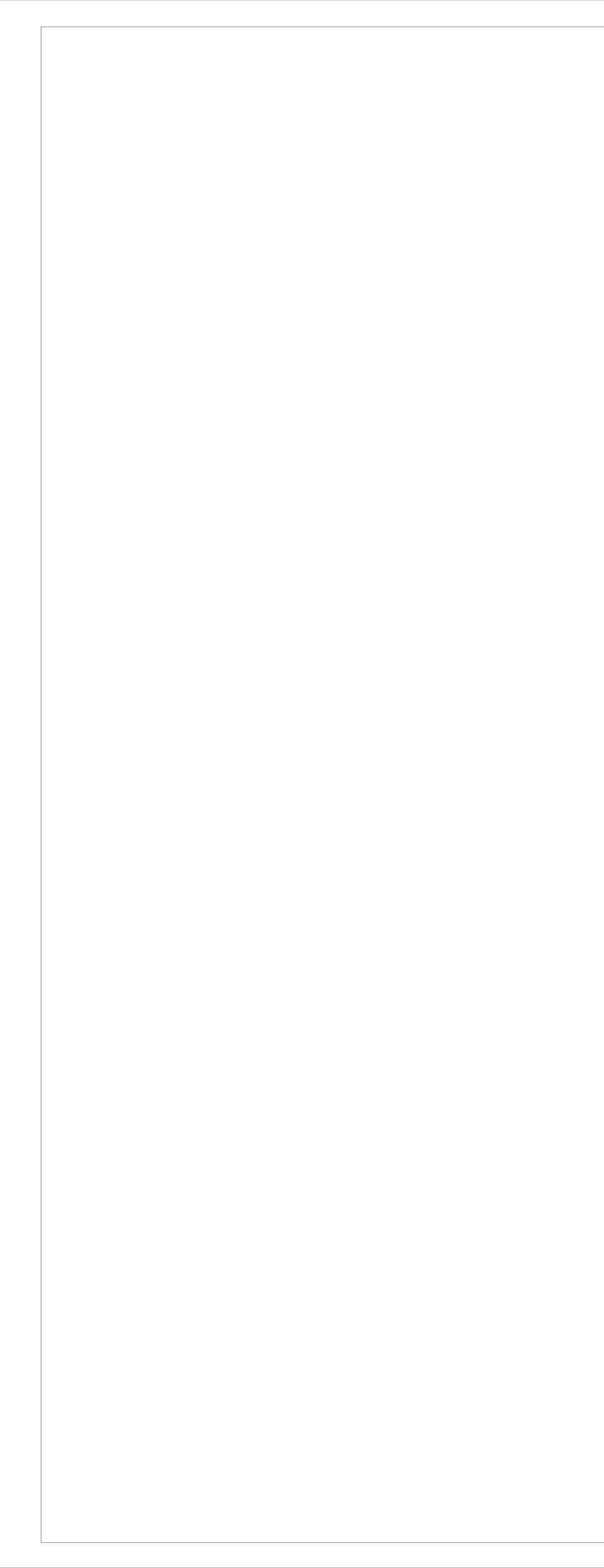
SCALE: 1/4" = 1'-0"







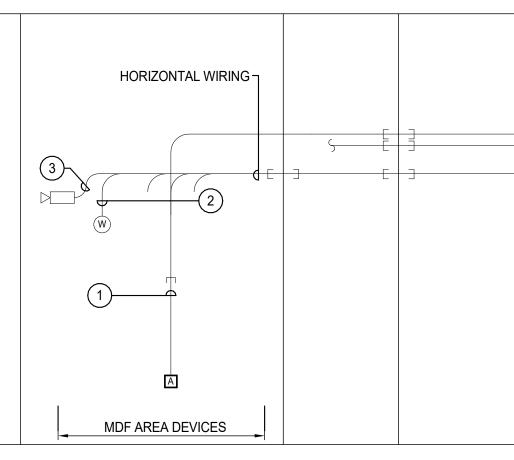




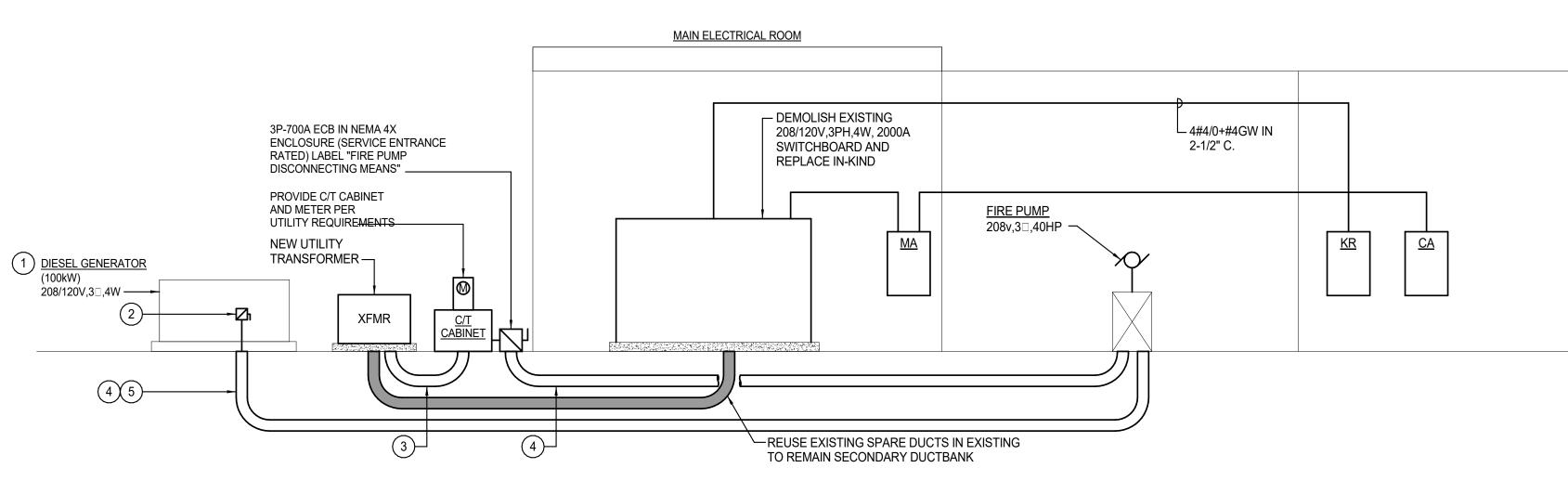
<u>COLOR CODE FOR CAT5E & CAT6 WIRE:</u>

- DATA BLUE CABLE BLUE JACKS • WAP - CAMERAS (BLUE CABLE & RJ-45)
- PA YELLOW CABLE YELLOW JACKS • VOICE - WHITE CABLE - WHITE JACKS

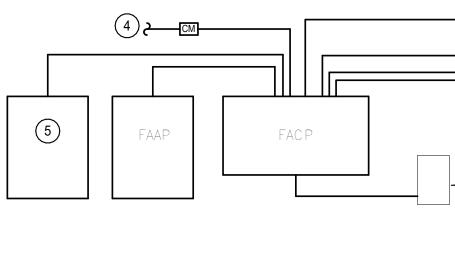
- <u>GENERAL NOTES:</u> 1. REFER TO DETAILS FOR ADDITIONAL INFORMATION ON DATA OUTLET CONFIGURATIONS. 2. TERMINATE WAP DROPS ON DEDICATED PATCH PANEL(S).
- 3. TERMINATE SECURITY CAMERA ON DEDICATED PATCH PANEL(S).
- 4. REFER TO FLOOR PLANS FOR LOCATIONS AND DEVICE COUNTS.
- 5. ALL EXTERIOR DEVICES SHALL BE PROVIDED WITH SURGE PROTECTION AT WALL PENETRATION.
- 6. REFER TO DETAIL 6 (TECHNOLOGY TEACHING WALL ELEVATION AND RISER) ON SHEET E6.03 FOR MORE INFORMATION.



SCHEMATIC COMMUNICATIONS SYSTEM RISER DIAGRAM SCALE: NONE



SCHEMATIC POWER RISER DIAGRAM SCALE:NONE



<u>Schematic fire alarm riser diagram</u> SCALE: NONE

- DRAWING NOTES:
- (1) (3) 4PR CAT6 CABLES FOR DATA FROM OUTLET TO IDF/MDF IN 1-1/4"C TO CEILING SPACE ABOVE.
- (1) CAT6 CABLE WITH 10' SERVICE LOOPS.
- (1) 4PR CAT6 CABLE FOR SECURITY CAMERA FROM OUTLET TO IDF/MDF FOR CEILING MOUNTED CAMERAS. FOR WALL MOUNTED IDF/MDF FOR CEILING MOUNTED CAMERAS. FOR WALL MOUNTED
- CAMERAS IN 1"C TO CEILING SPACE ABOVE. PROVIDE WITH 20' (4) SLACK FOR FIELD ADJUSTMENT AND TERMINATE WITH MALE END.
- MDF SERVER RM A114 110 110 110 BLOCK FIELD
- EXISTING DATA RACK

RT H F DD SD **REUSE EXISTING**

AUTODIALER LOCATED IN MAIN ELECTRICAL ROOM

- <u>GENERAL NOTES:</u> (FIRE ALARM RISER) 1. REFER TO FLOOR PLAN SFOR EXACT QUANTITY AND LOCATION
- OF DEVICES. 2. PROVIDE ALL WIRING IN CONDUIT, SIZED AS RECOMMENDED BY SYSTEM MANUFACUTRER.
- DRAWING NOTES: (FIRE ALARM RISER) (1) TO OTHER NOTIFICATION DEVICES IN THIS ZONE.
- (2) TO OTHER INITIATING DEVICES IN THIS ZONE.
- (3) TO ADDITIONAL SPRINKLER SYSTEM DEVICES IN THIS ZONE.
- (4) TO ADDITIONAL CONTROL MODULES (INCLUDING DOOR RELEASE IN THIS ZONE.
- 5 PROVIDE REMOTE GENERATOR ANNUNCIATOR PANEL COORDINATE LOCATION WITH OWNER. PANEL SHALL PROVIDE ALL CODE REQUIRED STATUS MONITORING, ALARMS FROM GENERATOR TO FIRE ALARM SYSTEM. INCLUDING GENERATOR TROUBLE, GENERATOR RUNNING, SUPERVISORY ALARMS AND GENERATOR IN AUTOMATIC MODE.

DRAWING NOTES:

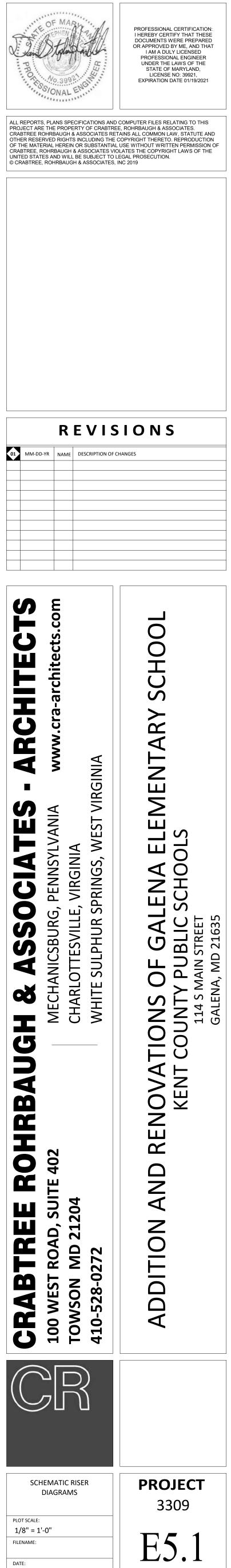
- (1) KOHLER ALTERNATOR 4R12X.

- 2 3P-175A-LSI TYPE CIRCUIT BREAKER.
- (4) #1/0 + #6GW
- (3) #1/0 + #6GW 1"C
- 5 GENERATOR DUCTBANK

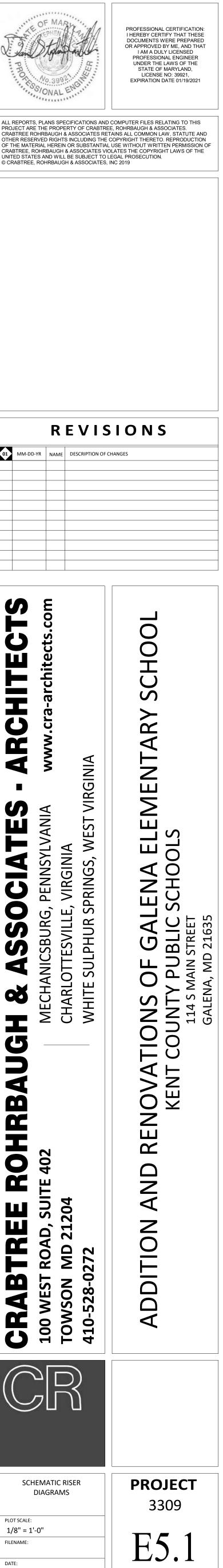




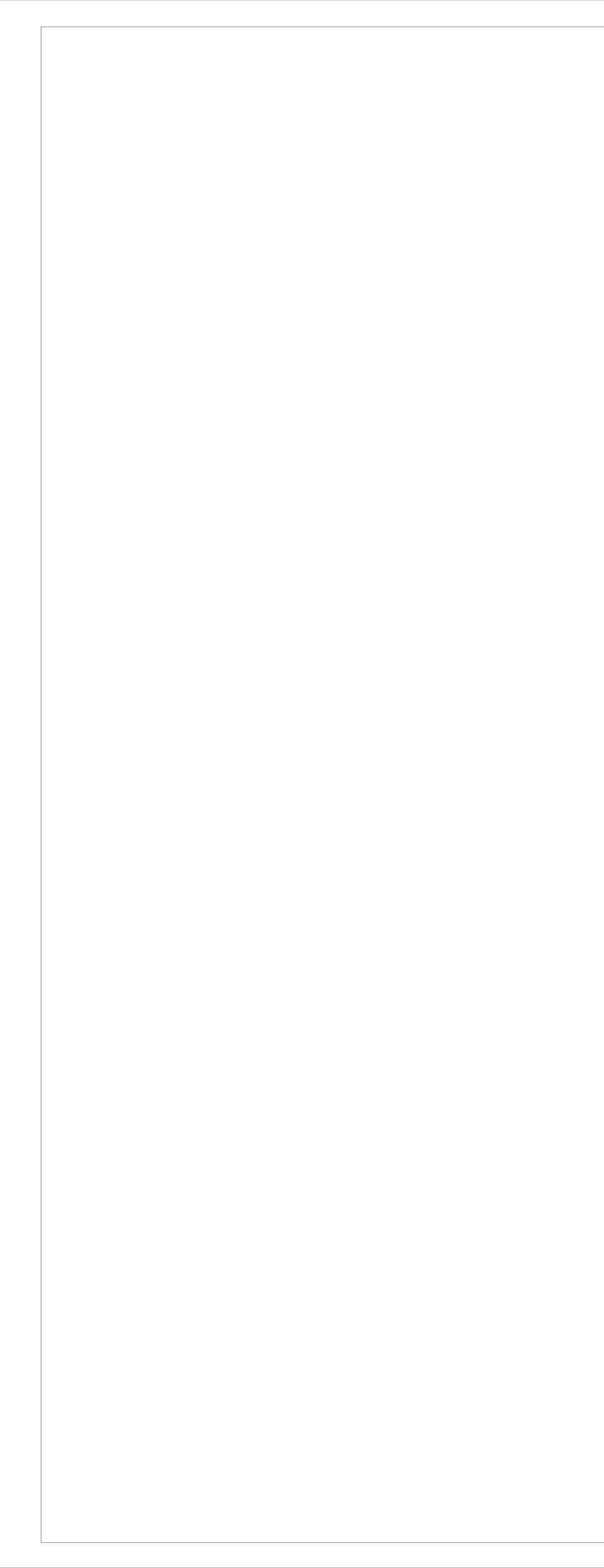


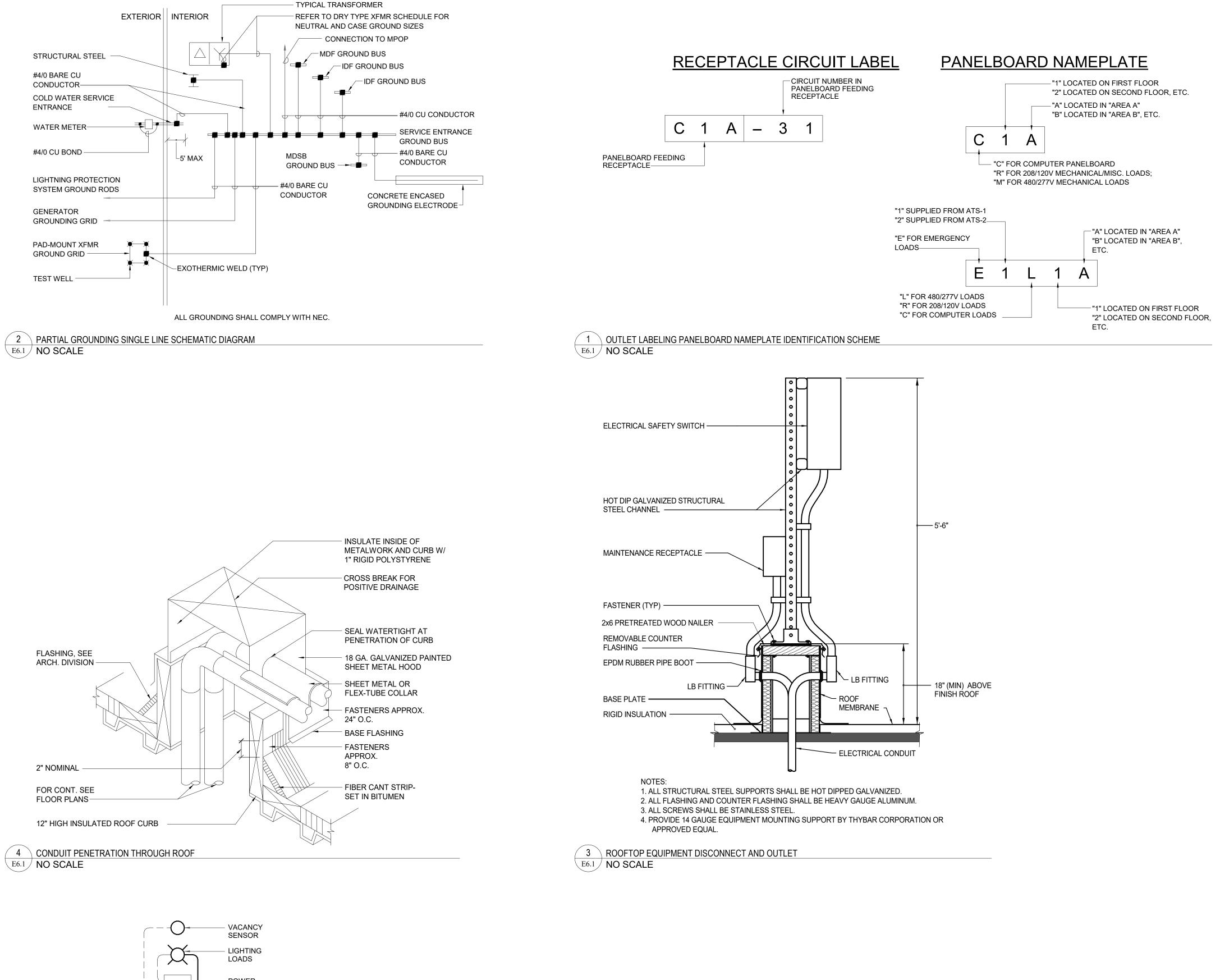


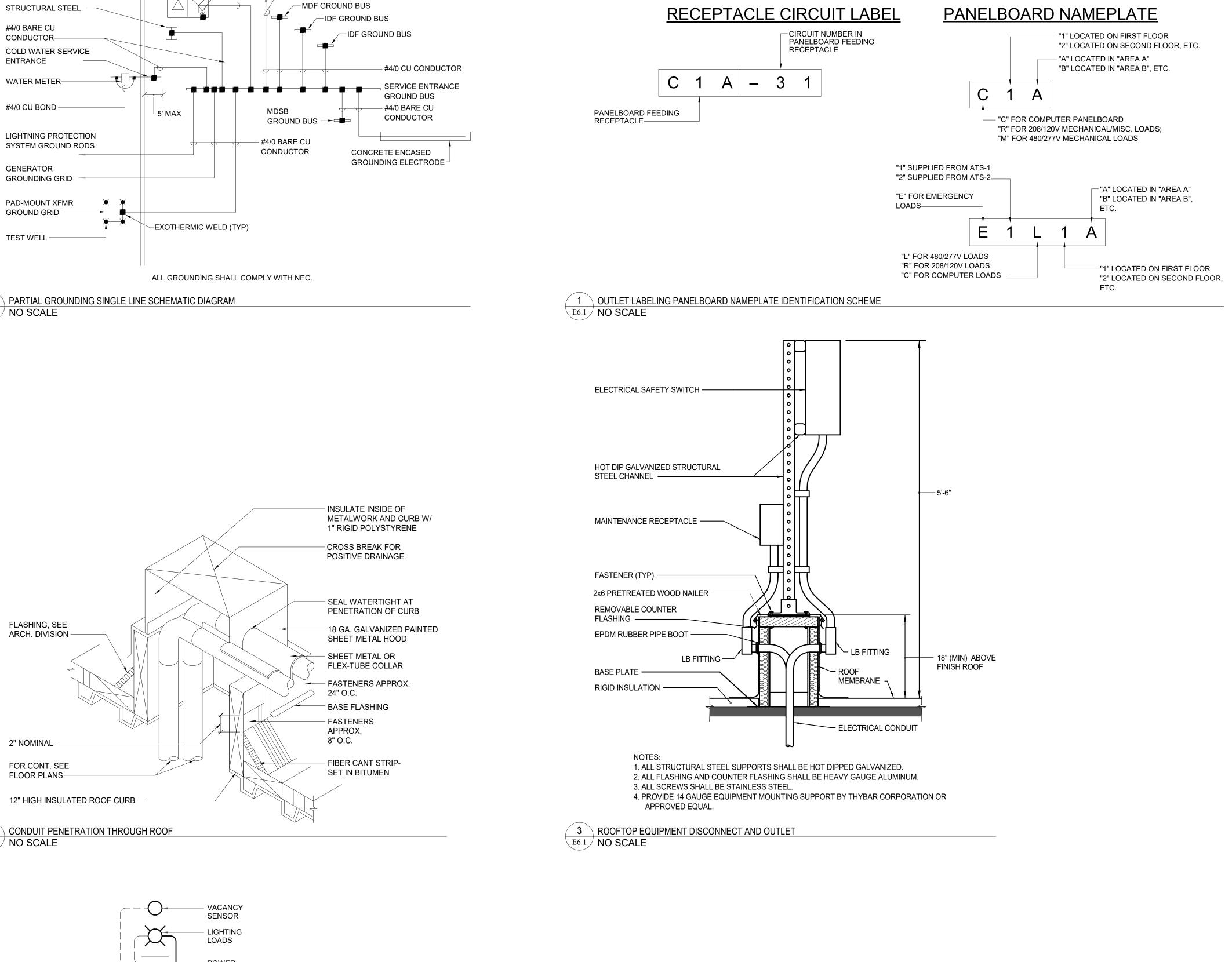




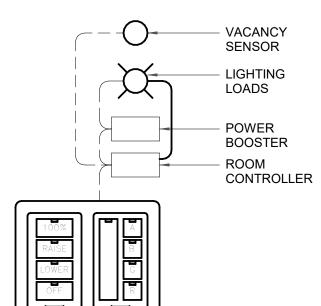












- NOTES: MOUNT BOTH CONTROL STATIONS IN ONE DOUBLE GANG BOX. 1
- BASIS OF DESIGN FOR COLOR CHANGING STATION SHALL BE BY LEGRAND, DLM COLOR CONTROL PRESET SWITCH (MLSW-105-CCT SERIES) WITH FOUR PRESET BUTTONS AND ONE SCROLL/ROTATION BUTTON ALLOWING FOR INDIVIDUAL SELECTION OF COLOR DESIRED. IN ADDITION, PROVIDE ONE 4 BUTTON STATION FOR CONTROL OF LIGHTING LEVELS.
- ROOM CONTROLLER SHALL BE MOUNTED IN CORRIDOR NEAR ENTRY DOOR OF SENSORY ROOM ABOVE CEILING, IN ACCESSIBLE CEILING SPACE. IDENTIFICATION PLATE WILL BE PLACED ON THE CEILING OR OVER THE DOOR TO IDENTIFY THE LOCATION OF ROOM CONTROLLER IN ROOM (VERIFY PLATE TYPE AND LOCATION WITH ARCHITECT AND OWNER REPRESENTATIVE PRIOR TO INSTALLATION).
- ALL BUTTON LABELING AND PROGRAMMING SHALL BE VERIFIED WITH OWNERSHIP AT SHOP DRAWING LEVEL. SUBMIT BUTTON LABELING FORMS TO ARCHITECT. 4.

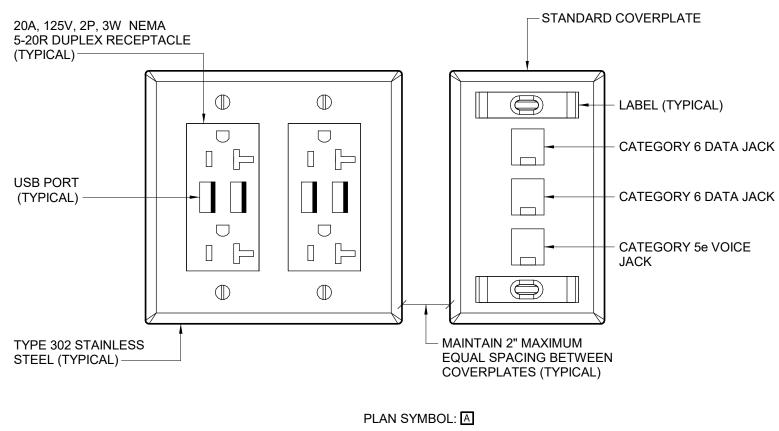
WIRING DIAGRAM - COLOR TUNING CONTROLS 6 E6.1 NO SCALE

FINISHED GRADE		
DUCTBANK MARKING	EQUAL	– 30" MIN.
3000 P.S.I. CONCRETE	EQUAL	
P.V.C. CONDUIT SIZE AS INDICATED 1" P.V.C. CONDUITS (CONTROLS)		→ #4 REBAR (TYP.) — #4 REBAR (TYP.) 18" O.C
3" MINIMUM SEPARATION (TYP.) 7 GENERATOR DUCTBANK E6.1 NO SCALE		

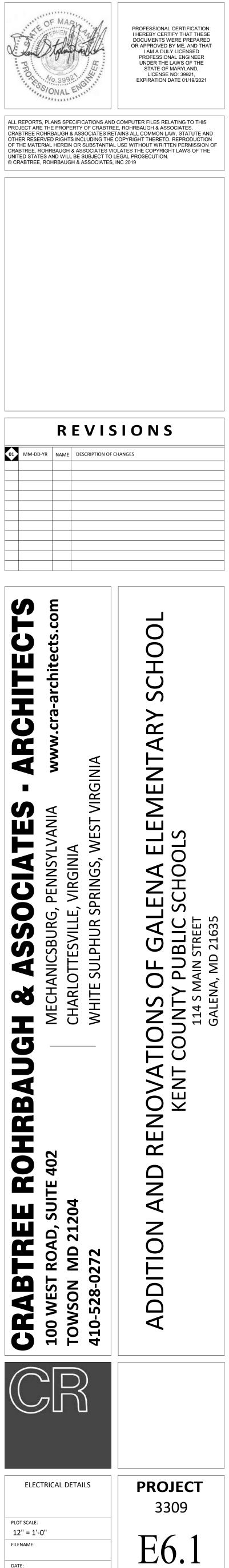
(TYPICAL)-

USB PORT (TYPICAL) -

 $5 \rightarrow \text{ADMINISTRATION DROP}$ E6.1 NO SCALE



February 10, 2020



Branch Panel: KR

LOCATION: (SUPPLY FROM: M MOUNTING: F				V	OLTAGE: PHASE: WIRES:	3	Nye		A.I.C. RATING: 10 kAIC MAINS RATING: 400 A MCB RATING: 300 A NEUTRAL RATING: 100%						
CIRCUIT	WIRE SIZE	P	СВ		A	В		С		CB F	WIRE SIZE	CIRCUIT	СКТ		
MAU-1	(3) #12 + #12GW - 3/4"(С 3	15 A	1.2 kVA	0.9 kVA					15 A 3	(3) #12 + #12GW - 3/4"C	F-9	KR-2		
			·			1.2 kVA	0.9 kVA				·		KR-4		
			·					1.2 kVA	0.9 kVA		·		KR-6		
REC (22) - KITCHEN A105	(2) #12 + #12GW - 3/4"(C 1	20 A	0.5 kVA	3.3 kVA					40 A 2	(2) #8 + #10GW - 3/4"C	REC (16) - KITCHEN A105	KR-8		
REC (16) - KITCHEN A105	(2) #8 + #10GW - 3/4"C	2	40 A			3.3 kVA	3.3 kVA				·		KR-10		
			·					3.3 kVA	0.5 kVA	20 A 1	(2) #12 + #12GW - 3/4"C	REC (22) - KITCHEN A105	KR-12		
REC (15) - KITCHEN A105	(2) #12 + #12GW - 3/4"(C 1	20 A	0.2 kVA	1.0 kVA					20 A 1	(2) #12 + #12GW - 3/4"C	REC (21) - KITCHEN A105	KR-14		
REC (20) - KITCHEN A105	(2) #12 + #12GW - 3/4"		20 A			1.0 kVA	1.0 kVA			20 A 1	(2) #12 + #12GW - 3/4"C		KR-16		
REC (18) - KITCHEN A105	(2) #12 + #12GW - 3/4"		20 A					1.0 kVA	1.0 kVA		(2) #12 + #12GW - 3/4"C	. ,	KR-18		
REC (15) - KITCHEN A105	(2) #12 + #12GW - 3/4"			1.0 kVA	1.8 kVA					20 A 1	(2) #12 + #12GW - 3/4"C		KR-20		
VENT. LIGHT CONTROLLER (11)	(2) #12 + #12GW - 3/4"(20 A		-	1.6 kVA	3.7 kVA			40 A 3		· · · · · · · · · · · · · · · · · · ·	. KR-22		
CONVECTION OVEN (13) - KITHCE	(3) #8 + #10GW - 3/4"C		40 A					3.7 kVA	3.7 kVA				KR-24		
				3.7 kVA	3.7 kVA						. 		KR-26		
						3.7 kVA	5.7 kVA			60 A 3	(3) #6 + #10GW - 3/4"C	RANGE (19) - KITCHEN A105	KR-28		
CONVECTION STEAMER (14)	(3) #10 + #10GW - 3/4"	<u> </u>	30 A			0.7 1077	0.7 1077	1.5 k\/A	5.7 kVA				KR-30		
					5.7 kVA			1.0 KV/	0.7 КУЛ				KR-32		
				1.5 KVA	5.7 KVA	1.5 kVA	151/1			30 A 3	(3) #10 + #10GW - 3/4"C	CONVECTION STEAMER (14)	KR-34		
 REC -		- 1	20 A			1.5 KVA	1.5 KVA	101///	1.5 kVA		(3) #10 + #100 W - 3/4 C		KR-36		
AIR SCREEN (5)	(2) #12 + #12GW - 3/4 ((2) #12 + #12GW - 3/4"			0.2 kVA	151/1			1.0 KVA	1.5 KVA				KR-30		
	()		-		1.5 KVA	0.2 kVA	1.0 10/0			 20 A 1		 REC (23)	KR-40		
REC (23)	(2) #12 + #12GW - 3/4"(1	20 A			0.2 KVA	1.0 KVA	0.0 10/0	0.010/0		()				
Spare		'	20 7					0.0 KVA	0.2 kVA	20 A I	(2) #12 + #12GVV - 3/4 C	MAU CONTROL PANEL	KR-42		
Spare			_	0.0 kVA		0.010/0							KR-44		
Spare		1	20 A			0.0 kVA		0.011/4					KR-46		
Spare		1	20 A					0.0 kVA					KR-48		
Spare				0.0 kVA									KR-50		
Spare			20 A			0.0 kVA							KR-52		
Spare			20 A					0.0 kVA					KR-54		
	Total Connected Loa	ad:	80.8	26.1	kVA	29.5	kVA	25.1	kVA						
SIFICATION	CO	NNE		OAD	DEM	IAND FAC	TOR	ESTIN		EMAND		PANELBOARD TOTALS			
Γ-						100.00%					Tota				
		31	.8 kVA			65.74%			20.9 kVA	١	Total	Est. Demand: 69.9 kVA			
AL -						100.00%									
		0.	0 kVA			0.00%			0.0 kVA		Total E	st. Demand.: 194 A			
			31 6.			31.8 kVA 6.2 kVA	31.8 kVA 65.74% 6.2 kVA 100.00%	31.8 kVA 65.74% 6.2 kVA 100.00%	31.8 kVA 65.74% 6.2 kVA 100.00%	31.8 kVA 65.74% 20.9 kVA 6.2 kVA 100.00% 6.2 kVA	31.8 kVA 65.74% 20.9 kVA 6.2 kVA 100.00% 6.2 kVA	31.8 kVA 65.74% 20.9 kVA Total I 6.2 kVA 100.00% 6.2 kVA	31.8 kVA 65.74% 20.9 kVA Total Est. Demand: 69.9 kVA 6.2 kVA 100.00% 6.2 kVA Total Conn.: 224 A		

	Location: C Supply From: M Mounting: R		VOLTAGE: 120/208 Wye PHASE: 3 WIRES: 4									A.I.C. RATING: 10 kAIC MAINS RATING: 400 A MCB RATING: 300 A NEUTRAL RATING: 100%					
otes:																	
СКТ	CIRCUIT	WIRE SIZE		P CE	3	A	I	В	C	;	СВ	Р	WIRE SIZE		CIRCUIT	СКТ	
KR-1	MAU-1	(3) #12 + #12GW - 3	3/4"C	3 15	A 1.2 kVA	0.9 kVA					15 A	3 ((3) #12 + #12GW - 3/4"C	F-9		KR-2	
KR-3							1.2 kVA	0.9 kVA								KR-4	
KR-5									1.2 kVA	0.9 kVA						KR-6	
KR-7	REC (22) - KITCHEN A105	(2) #12 + #12GW - 3	3/4"C	1 20	A 0.5 kVA	3.3 kVA					40 A	2	(2) #8 + #10GW - 3/4"C	REC (16) -	KITCHEN A105	KR-8	
KR-9	REC (16) - KITCHEN A105	(2) #8 + #10GW - 3	/4"C	2 40	4		3.3 kVA	3.3 kVA								KR-10	
KR-11									3.3 kVA	0.5 kVA	20 A	1 ((2) #12 + #12GW - 3/4"C	REC (22) -	KITCHEN A105	KR-12	
KR-13	REC (15) - KITCHEN A105	(2) #12 + #12GW - 3	3/4"C	1 20	A 0.2 kVA	1.0 kVA					20 A	1 ((2) #12 + #12GW - 3/4"C	REC (21) -	KITCHEN A105	KR-14	
KR-15	REC (20) - KITCHEN A105	(2) #12 + #12GW - 3		1 20			1.0 kVA	1.0 kVA			20 A	`	(2) #12 + #12GW - 3/4"C	. ,	KITCHEN A105	KR-16	
KR-17	REC (18) - KITCHEN A105	(2) #12 + #12GW - 3		1 20					1.0 kVA	1.0 kVA		`	(2) #12 + #12GW - 3/4"C	. ,	KITCHEN A105	KR-18	
KR-19	REC (15) - KITCHEN A105	(2) #12 + #12GW - 3			A 1.0 kVA	1.8 kVA			,		20 A	`	(2) #12 + #12GW - 3/4"C	. ,	TECTION SYSTEM (10)	KR-20	
KR-21	VENT. LIGHT CONTROLLER (11)	(2) #12 + #12GW - 3		1 20			1.6 kVA	3.7 kVA			40 A		(3) #8 + #10GW - 3/4"C		ION OVEN (13) - KITHCE	KR-22	
KR-23	CONVECTION OVEN (13) - KITHCE	(3) #8 + #10GW - 3		3 40			1.0	0.1 1011	3.7 kVA	3.7 k\/A						KR-24	
KR-25		(0) #0 * #10000 0	,			3.7 kVA			0.7 1077	0.7 1077						KR-26	
KR-27					0.7 KVA	5.7 KVA	37 k\/A	5.7 kVA			60 A	3	(3) #6 + #10GW - 3/4"C	RANCE (10	9) - KITCHEN A105	KR-28	
KR-29	 CONVECTION STEAMER (14)		2/4"0	3 30	Λ		5.7 KVA	J.7 KVA	1.5 kVA	57W/A		5	(3) #0 + #10000 - 3/4 C		b) - KITCHEN A103	KR-30	
KR-31	CONVECTION STEAMER (14)		5/4 C			5.7 kVA			1.5 KVA	5.7 KVA						KR-32	
					1.5 KVA	5.7 KVA											
KR-33					•		1.5 KVA	1.5 kVA	4.011/4	4 5 1) / 4		3 ((3) #10 + #10GW - 3/4"C	CONVECT	ION STEAMER (14)	KR-34	
KR-35	REC -	(2) #12 + #12GW - 3		1 20		4 = 1 > 44			1.0 kVA	1.5 KVA						KR-36	
KR-37	AIR SCREEN (5)	(2) #12 + #12GW - 3			A 0.2 kVA	1.5 KVA					·					KR-38	
KR-39	REC (23)	(2) #12 + #12GW - 3		1 20			0.2 kVA	1.0 kVA			20 A		(2) #12 + #12GW - 3/4"C	· · · ·		KR-40	
KR-41	Spare			1 20					0.0 kVA	0.2 kVA	20 A	1 ((2) #12 + #12GW - 3/4"C	MAU CON	TROL PANEL	KR-42	
KR-43	Spare				A 0.0 kVA											KR-44	
KR-45	Spare			1 20			0.0 kVA									KR-46	
KR-47	Spare			1 20					0.0 kVA							KR-48	
KR-49	Spare			1 20	A 0.0 kVA											KR-50	
KR-51	Spare			1 20	Α		0.0 kVA									KR-52	
KR-53	Spare			1 20	A				0.0 kVA							KR-54	
		Total Connected	Load:	80.8.	. 26.′	kVA	29.5	kVA	25.1	kVA							
egend:																	
DAD CLA	SSIFICATION		CONN	ECTED	LOAD	DEN		TOR	ESTIM					PANELBOA	RD TOTALS		
				12.8 kV			100.00%			42.8 kVA				Conn. Load:			
EC -				31.8 kV			65.74%			20.9 kVA				st. Demand:			
ECHANIC	CAL -			6.2 kV/			100.00%			6.2 kVA				otal Conn.:			
rg				0.0 kVA	۱		0.00%			0.0 kVA			Total Es	t. Demand.:	194 A		

Main Switchboard: EX. MSB Location: UTILITY ROOM 19 Supply From: Mounting: FREE-STANDING

Enclosure: Type 2

Volts: 480/277 Wye Phases: 3 Wires: 4

	Enclosure: Type 2						
Notes:							
	1	I		1			
СКТ	CIRCUIT	P	FRAME	СВ	WIRE SIZE	LOAD	REMARKS
1	EX. RTU-4	3		500 A		0.0 kVA	
2	EX. PANELBOARD L1	3		225 A		0.0 kVA	
3	EX. OLD BUILDING	3		225 A		0.0 kVA	
4	EX. HVAC-3	3		350 A		0.0 kVA	
5	EX. RTU-3	3		300 A		0.0 kVA	
6	EX. HVAC-1	3		250 A		0.0 kVA	
7	EX. RTU-5	3		400 A		0.0 kVA	
8	EX. RTU-1	3		200 A		0.0 kVA	
9	EX. PANELBOARD K	3		225 A		0.0 kVA	
10	EX. BOILER ROOM PANELBOARD	3		100 A		0.0 kVA	
11	EX. "SPARE"	3		30 A		0.0 kVA	
12	EX. PUMPS 4 & 5	3		70 A		0.0 kVA	
13	EX. RTU-7	3		100 A		0.0 kVA	
14	EX. PANELBOARD E	3		100 A		0.0 kVA	
15							
					Total Cor	nnected Load: 0.0 kVA	
		1				1	
Load Class	sification	Connected Load	l D	emand Factor	Estimated Demand	Panel	Totals
EQUIPMEN	IT -	0.0 kVA		0.00%	0.0 kVA		

Load Classification	Connected Load	Demand Factor	Estimated Demand	
EQUIPMENT -	0.0 kVA	0.00%	0.0 kVA	
REC -	0.0 kVA	0.00%	0.0 kVA	
MECHANICAL -	0.0 kVA	0.00%	0.0 kVA	
LTG	0.0 kVA	0.00%	0.0 kVA	
Notes:				

Main Switchboard: MSB Location: UTILITY ROOM 19 Supply From: Mounting: FREE-STANDING Enclosure: Type 2

Volts: 120/208 Wye Phases: 3 **Wires:** 4

	1						1
СКТ	CIRCUIT	Р	FRAME	СВ	WIRE SIZE	LOAD	REMARKS
MSB-1	RTU-1	3	250 A	110 A	(3) #2 + #6GW - 1-1/4"C	31.3 kVA	
MSB-2	RTU-3	3	250 A	150 A	(3) #1 + #6GW - 1-1/2"C	46.5 kVA	
MSB-3	RTU-4	3	250 A	250 A	(3) #4/0 + #4GW - 2"C	75.4 kVA	
MSB-4	RTU-5	3	250 A	225 A	(3) #3/0 + #4GW - 2"C	67.3 kVA	
MSB-5	RTU-7	3	250 A	110 A	(3) #1 + #6GW - 1-1/2"C	35.2 kVA	
MSB-6	PANELBOARD KR	3	400 A	300 A	(4) 350KCMIL + #4GW - 2-1/2"C	80.8 kVA	
MSB-7	PANELBOARD MA	3	400 A	300 A	(4) 350KCMIL + #4GW - 2-1/2"C	84.1 kVA	
MSB-8	EX. PANELBOARD L1	3		225 A		0.0 kVA	
MSB-9	EX. OLD BUILDING PANELBOARD	3		225 A		0.0 kVA	
MSB-10							
MSB-11	EX. BOILER ROOM PANELBOARD	3		100 A		0.0 kVA	
MSB-12	EX. PUMP 4 & 5	3		70 A		0.0 kVA	
MSB-13	EX. PANELBOARD E	3		100 A		0.0 kVA	
MSB-14							
MSB-15							

Load Classification	Connected Load	Demand Factor	Estimated Demand	
EQUIPMENT -	43.2 kVA	100.00%	43.2 kVA	
REC -	46.1 kVA	60.86%	28.0 kVA	
MECHANICAL -	322.8 kVA	100.00%	322.8 kVA	
LTG	0.0 kVA	0.00%	0.0 kVA	
				Г

A.I.C. Rating: 65 kAIC Mains Rating: 2000 A MCB Rating: 2000 A

Total Conn. Load: 0.0 kVA Total Est. Demand: 0.0 kVA

Total Conn.: 0 A Total Est. Demand: 0 A

A.I.C. Rating: 65 kAIC Mains Rating: 2500 A

MCB Rating: 2500 A (100% RATED)

Total Connected Load: 420.8 kVA

Panel	Totals
Total Conn. Load:	420.8 kVA
Total Est. Demand:	402.7 kVA
Total Conn.:	1168 A
Total Est. Demand:	1118 A

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (PUMPs) ELECTRICAL CHARACTE EQUIPMENT DESIG. VOLTAGE AMP φ JP-1 208 V 10.6 A 3 P-3 120 V 5.8 A 1 120 V 0.0 A P-4 (SB) 1 P-5 120 V 5.8 A 1 0.0 A P-6 (SB) 120 V 1 120 V P-7 5.8 A 1 120 V 0.0 A P-8 (SB) 1

1

1

1

P-12 (SB)	120 V	1	0.0 A	0.0 kVA	MA-1	6	
MECHANIC			ECTION SCHI	EDULE (ELEC	CEILING HEA	ATER)	
EQUIPMENT	ELECT		HARACTERIS	STICS	CIRCUIT	MECS	
DESIG.	VOLTAGE	φ	AMPS	kVA	DESIG.	NOTES	

MECH	IANICAL EQUI	PMENT C	ONNECT		
EQUIPMENT	ELEC	HARACT			
DESIG.	VOLTAGE	φ	AMP		
MAU-1	208 V	3	9.8 /		
N	MECHANICAL I	EQUIPME			
EQUIPMENT	IT ELECTRICAL CHARAC				

120 V

120 V

120 V

P-9

P-10 (SB)

P-11

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (RTUS)									
EQUIPMENT	ELECT	RICAL C	CIRCUIT	MECS					
DESIG.	VOLTAGE	φ	AMPS	kVA	DESIG.	NOTES			
RTU-1	208 V	3	87.0 A	31.3 kVA	MSB-1	3			
RTU-2	208 V	3	33.6 A	12.1 kVA	MA-16,18,20	1			
RTU-3	208 V	3	129.2 A	46.5 kVA	MSB-2	3			
RTU-4	208 V	3	209.3 A	75.4 kVA	MSB-3	4			
RTU-5	208 V	3	186.9 A	67.3 kVA	MSB-4	4			
RTU-6	208 V	3	29.6 A	10.7 kVA	MA-19,21,23	1			
RTU-7	208 V	3	97.8 A	35.2 kVA	MSB-5	3			

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (EHCs)									
EQUIPMENT	STICS	CIRCUIT	MECS						
DESIG.	VOLTAGE	φ	AMPS	kVA	DESIG.	NOTES			
EHC-1	208 V	3	9.7 A	3.5 kVA	MA-31,33,35	9			
EHC-2	208 V	3	15.3 A	5.5 kVA	MA-37,39,41	9			

Branch Panel: MA

	LOCATION: ELECTRICAL ROOM A112 SUPPLY FROM: MSB MOUNTING: Surface			JPPLY FROM: MSB PHASE: 3 MAINS RATING: 400 A										
lotes:														
СКТ	CIRCUIT	WIRE SIZE	P CB		A	E	3	C	;	СВ	Ρ	WIRE SIZE	CIRCUIT	СКТ
MA-1	P-11 & P-12 (SB)	(2) #12 + #12GW - 3/4"C	1 20 A	0.7 kVA	0.7 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	P-9 & P-10 (SB)	MA-2
MA-3	P-5 & P-6 (SB)	(2) #12 + #12GW - 3/4"C	1 20 A			0.7 kVA	0.7 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	P-1 & P-2 (SB)	MA-4
MA-5	SSCU-1	(2) #12 + #12GW - 3/4"C	2 20 A					1.2 kVA	1.8 kVA	30 A	2	(2) #10 + #10GW - 3/4"C	SSCU-3	MA-6
MA-7				1.2 kVA	1.8 kVA									MA-8
MA-9	SSCU-2	(2) #10 + #10GW - 3/4"C	2 30 A			1.6 kVA	1.7 kVA			20 A	3	(3) #12 + #12GW - 3/4"C	UH-1	MA-10
MA-11								1.6 kVA	1.7 kVA					MA-12
MA-13	UH-2	(3) #12 + #12GW - 3/4"C	3 20 A	1.7 kVA	1.7 kVA									MA-14
MA-15						1.7 kVA	4.0 kVA			45 A	3	(3) #8 + #10GW - 3/4"C	RTU-2	MA-16
MA-17								1.7 kVA	4.0 kVA					MA-18
MA-19	RTU-6	(3) #10 + #10GW - 3/4"C	3 40 A	3.6 kVA	4.0 kVA									MA-20
MA-21						3.6 kVA	6.7 kVA			60 A	3	(4) #4 + #10GW - 1-1/4"C	PANELBOARD CA	MA-22
MA-23								3.6 kVA	5.9 kVA					MA-24
MA-25	REC - ROOFTOP	(2) #12 + #12GW - 3/4"C	1 20 A	0.8 kVA	5.7 kVA									MA-26
MA-27	F-10, 11, 12	(2) #12 + #12GW - 3/4"C	1 15 A			0.9 kVA	0.7 kVA			20 A	1	(2) #12 + #12GW - 3/4"C	P-7 & P-8 (SB) - SECURE	MA-28
MA-29	CH-1	(2) #12 + #12GW - 3/4"C	1 20 A					1.5 kVA	0.6 kVA	20 A	1	(2) #12 + #12GW - 3/4"C	REC -	MA-30
MA-31	EHC-1	(2) #12 + #12GW - 3/4"C	3 20 A	1.2 kVA	1.2 kVA					20 A	1	(2) #12 + #12GW - 3/4"C	WASHER - A109	MA-32
MA-33						1.2 kVA	1.3 kVA			50 A	2	(3) #6 + #10GW - 3/4"C	DRYER - A109	MA-34
MA-35								1.2 kVA	1.3 kVA					MA-36
MA-37	EHC-2		3 20 A	1.8 kVA	1.3 kVA					20 A	3	(3) #12 + #12GW - 3/4"C	JOCKEY PUMP	MA-38
MA-39						1.8 kVA	1.3 kVA							MA-40
MA-41								1.8 kVA	1.3 kVA					MA-42
MA-43	Spare		1 20 A	0.0 kVA	0.0 kVA					20 A	1		Spare	MA-44
MA-45	Spare		1 20 A			0.0 kVA	0.0 kVA			20 A	1		Spare	MA-46
MA-47														MA-48
MA-49														MA-50
MA-51														MA-52
MA-53														MA-54
		Total Connected Load:	84.1	27.4	kVA	27.7	kVA	29.1	kVA					

Legend:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOA	RD TOTALS
EQUIPMENT -	0.4 kVA	100.00%	0.4 kVA	Total Conn. Load:	84.1 kVA
REC -	14.3 kVA	84.97%	12.2 kVA	Total Est. Demand:	82.0 kVA
MECHANICAL -	60.7 kVA	100.00%	60.7 kVA	Total Conn.:	233 A
LTG	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand.:	228 A

Branch Panel:	CA
LOCATION:	SERVER ROOM A114
SUPPLY FROM:	MA

MOUNTING: Surface

otes	

СКТ	CIRCUIT	WIRE SIZE	Ρ	СВ	
CA-1	REC - ROOFTOP	(2) #12 + #12GW - 3/4"C	1	20 A	(
CA-3	FACP - SERVER ROOM A114	(2) #12 + #12GW - 3/4"C	1	20 A	
CA-5	REC - LANGUAGE SUPPORT B101	(2) #12 + #12GW - 3/4"C	1	20 A	
CA-7	REC - SENSORY ROOM B105	(2) #12 + #12GW - 3/4"C	1	20 A	(
CA-9	REC- Room B102, B103, B101, B107	(2) #12 + #12GW - 3/4"C	1	20 A	
CA-11	REC - LANGUAGE SUPPORT B101	(2) #12 + #12GW - 3/4"C	1	20 A	
CA-13	FACP - SERVER ROOM A114	(2) #12 + #12GW - 3/4"C	1	20 A	-
CA-15	Spare		1	20 A	
CA-17	Spare		1	20 A	
CA-19	Spare		1	20 A	(
CA-21	Spare		1	20 A	
CA-23	Spare		1	20 A	
CA-25	Spare		1	20 A	(
CA-27	Spare		1	20 A	
CA-29	Spare		1	20 A	
		Total Connected Load:	1	8.3	Γ

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOA	RD TOTALS
EQUIPMENT -	0.4 kVA	100.00%	0.4 kVA	Total Conn. Load:	18.3 kVA
REC -	9.2 kVA	100.00%	9.2 kVA	Total Est. Demand:	18.3 kVA
MECHANICAL -	0.0 kVA	0.00%	0.0 kVA	Total Conn.:	51 A
LTG	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand.:	51 A

RACTERIS	TICS	CIRCUIT	MECS	
AMPS	kVA	DESIG.	NOTES	
10.6 A	3.8 kVA	MA-38,40,42	7	
5.8 A	0.7 kVA	MA-4	6	
0.0 A	0.0 kVA	MA-4	6	
5.8 A	0.7 kVA	MA-3	6	
0.0 A	0.0 kVA	MA-3	6	
5.8 A	0.7 kVA	MA-28	6	
0.0 A	0.0 kVA	MA-28	6	
5.8 A	0.7 kVA	MA-2	6	
0.0 A	0.0 kVA	MA-2	6	
5.8 A	0.7 kVA	MA-1	6	
0.0 A	0.0 kVA	MA-1	6	

TERISTICS CIRCUIT MECS DESIG. NOTES kVA PS KR-1,3,5 3.5 kVA Α 2

MECS NOTES:

2

PROVIDE 3P-60A-NF/SS IN NEMA 4X (STAINLESS STEEL) ENCLOSURE. MOUNT AT UNIT AND MAKE ALL CONNECTIONS.

- PROVIDE 3P-30A-NF/SS IN NEMA 4X (STAINLESS STEEL) ENCLOSURE. MOUNT AT UNIT AND MAKE ALL CONNECTIONS.
- PROVIDE 3P-200A-NF/SS IN NEMA 4X (STAINLESS STEEL) ENCLOSURE. MOUNT AT UNIT AND MAKE ALL CONNECTIONS.
- PROVIDE 3P-400A-NF/SS IN NEMA 4X (STAINLESS STEEL) ENCLOSURE. 4 MOUNT AT UNIT AND MAKE ALL CONNECTIONS.
- MAKE CONNECTION TO INTEGRAL DISCONNECT FURNISHED WITH THE UNIT.
- PROVIDE FRACTIONAL MANUAL MOTOR STARTER WITH RED PILOT
- LIGHT. CONNECTION TO CONTROLLER FURNISHED BY OTHERS. 7.
- PROVIDE 2P-30A-NF/SS IN NEMA 4X STAINLESS STEEL ENCLOSURE 8. AND MOUNT AT OUTDOOR UNIT. PROVIDE 2P-30A-NF/SS IN NEMA 1 ENCLOSURE TO ASSOCIATED INDOOR UNIT, MOUNT AT UNIT AND MAKE ALL INTERCONNECTIONS.
- PROVIDE 3P-30A-NF/SS IN NEMA 1 ENCLOSURE. MOUNT AT UNIT AND 9 MAKE ALL CONNECTIONS.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (FANs)						
EQUIPMENT ELECTRICAL CHARACTERISTICS				CIRCUIT	MECS	
DESIG.	VOLTAGE	φ	AMPS	kVA	DESIG.	NOTES
F-9	208 V	3	7.5 A	2.7 kVA	KR-2,4,6	5
F-10	120 V	1	2.5 A	0.3 kVA	MA-27	5
F-11	120 V	1	2.5 A	0.3 kVA	MA-27	5
F-12	120 V	1	2.5 A	0.3 kVA	MA-27	5

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (UHs)							
EQUIPMENT	ELECTRICAL CHARACTERISTICS					MECS	
DESIG.	VOLTAGE	φ	AMPS	kVA	CIRCUIT DESIG.	NOTES	
UH-1	208 V	3	14.0 A	5.0 kVA	MA-10,12,14	5	
UH-2	208 V	3	14.0 A	5.0 kVA	MA-13,15,17	5	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (SPLIT SYSTEMSs)							
EQUIPMENT	NT ELECTRICAL CHARACTERISTICS				CIRCUIT	MECS	
DESIG.	VOLTAGE	φ	AMPS	kVA	DESIG.	NOTES	
SSCU-1	208 V	1	12.0 A	2.5 kVA	MA-5,7	8	
SSCU-2	208 V	1	15.0 A	3.1 kVA	MA-9,11	8	
SSCU-3	208 V	1	17.0 A	3.5 kVA	MA-6,8	8	

VOLTAGE:	120/208 Wye
PHASE:	3
WIRES:	4

A.I.C. RATING: 10 kAIC MAINS RATING: 100 A MCB RATING: 60 A **NEUTRAL RATING:** 100%

СКТ CB P WIRE SIZE CIRCUIT Α В С 0.6 kVA 0.8 kVA CA-2 20 A 1 (2) #12 + #12GW - 3/4"C REC - ROOFTOP CA-4 1.0 kVA | 1.6 kVA | 20 A 1 (2) #12 + #12GW - 3/4"C REC - C102 CA-6 1.6 kVA 1.8 kVA 20 A 1 CA-8 20 A 1 0.8 kVA 1.2 kVA

 A A 1.2 kVA 1.0 kVA 20 A 1 (2) # 12 + # 12 GW - 3/4"C FACP - SERVER ROOM A114
 CA-10

 A <
 1.2 kVA
 1.0 kVA
 20 A
 1
 (2) #12 + #12GW - 3/4"C
 FACP - SERVER ROOM A114
 CA-10
 6.7 kVA 5.9 kVA 5.7 kVA

