

Fort Oglethorpe Courts Renovation

500 City Hall Drive
Fort Oglethorpe, Georgia 30742

GENERAL NOTES

- ALL CONSTRUCTION IS INTENDED TO BE IN CONFORMANCE WITH FEDERAL AND STATE LAWS, CURRENT LOCAL ORDINANCES & BUILDING CODES AND THE ICC/ANSI A117.1 ACCESSIBILITY CODE, 2009 EDITION. REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.
- ALL WORK PERFORMED BY G.C. SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND TO MEET CURRENT SAFETY CODE REQUIREMENTS.
- CONTRACTOR TO FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCING WITH WORK.
- ALL WORK SHALL BE INSTALLED COMPLETE IN ANY RESPECT.
- THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR DAMAGES AND OMISSIONS OF THE SUBCONTRACTORS.
- G.C. TO VERIFY REQUIREMENTS OF ALL OWNER PROVIDED ITEMS WITH OWNER BEFORE PROCEEDING WITH WORK.
- CONTRACTOR TO FIELD VERIFY DIMENSIONS OF PLUMBING FIXTURES, (TOILETS, SINKS, SHOWER UNIT) VS. WALL PARTITION TYPES (WALL FRAMING AND ADDITIONAL BLOCKING MAY BE REQUIRED) BEFORE COMMENCING FRAMING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS WITH MANUFACTURER ON FIXTURES & EQUIPMENT SUPPLIED, PRIOR TO INSTALLATION.
- REFER TO ENLARGED DETAILS FOR ADDITIONAL INFORMATION INCLUDING DIMENSIONS, ENLARGED DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.
- DIMENSIONS ARE FACE OF STUD TO FACE OF STUD FOR WALL FRAMING. UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL BLOCKING REQUIRED FOR ALL WALL HUNG EQUIPMENT, SUCH AS BUT NOT LIMITED TO THE FOLLOWING: TOILET ACCESSORIES, SHELVING, WALL CABINETS, ETC.
- ALL STRUCTURAL AND DIMENSIONAL ISSUES MUST BE VERIFIED BY THE CONTRACTOR. IF DISCREPANCIES ARISE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH DISCREPANCIES.
- ALL PENETRATIONS THROUGH WALLS ARE TO BE SEALED WITH UL LISTED MATERIALS AND METHODS.
- THE CONTRACTOR IS TO PROVIDE CAULKING AT THE FOLLOWING LOCATIONS UNLESS NOTED OTHERWISE:
 - AT CASEWORK ENDS WHERE THEY MEET SPECIFIED WALL TYPES.
 - AT HOLLOW METAL DOOR FRAMES, BOTH SIDES AND TOP.
 - AT FLOOR/BASE MOUNTINGS FOR TOILETS AND WALL HUNG PLUMBING FIXTURES.
- WHERE GYPSUM BOARD IS USED IN TOILET ROOMS OR SINK/FIXTURE WET WALLS - PROVIDE MOISTURE RESISTANT GYPSUM BOARD.
- WHERE EXISTING CONSTRUCTION IS DISTURBED BY NEW WORK ALL FINISHED WORK SHALL MATCH EXISTING IN TEXTURE, COLOR AND MATERIAL.
- WHERE EXISTING SPRINKLER HEADS ARE TO BE REUSED, CONTRACTOR SHALL COORDINATE AND ADJUST POSITION TO AVOID CONFLICTS WITH NEW CEILING LAYOUT AND ASSOCIATED FIXTURES.

PROJECT DESIGN APPROACH:

THIS IS A RENOVATION OF A SEPARATED OCCUPANCY CONSISTING OF (2) TWO MAIN OCCUPANCY TYPES WHICH INCLUDE TYPE B AND TYPE I-3. WORK BEING PERFORMED DURING THE RENOVATION OF THE MUNICIPAL COURTS IS LIMITED TO TYPE B OCCUPANCY AREAS WHICH CONSIST OF THE FOLLOWING DEPARTMENTS:
MUNICIPAL COURT - OCCUPANCY TYPE B

THIS OCCUPANCY HAS BEEN REVIEWED UNDER THE IBC SECTION 301.3.2 WORK AREA COMPLIANCE METHOD, SECTION 603.1 ALTERATION - LEVEL 2.

PROJECT SCOPE OF WORK:

PHASE ONE CONSTRUCTION:
1) THE MUNICIPAL COURTS WILL VACATE THEIR EXISTING OFFICES AND RELOCATE TO AN EXISTING WING OF THE BUILDING.
2) THE EXISTING WAITING AREA OUTSIDE THE NEW COURT AREA WILL BE REMODELED TO PROVIDE ENHANCED SECURITY FEATURES WHICH INCLUDE BULLET PROOF INTERIOR GLAZING AND MAGNETIC LOCKING DOOR HARDWARE WITH EMERGENCY EGRESS CAPABILITIES.
3) THE COURTS WILL MAINTAIN A 1 HOUR RATED SEPARATION BETWEEN ITSELF AND ADJACENT DEPARTMENTS.

PROJECT INFORMATION

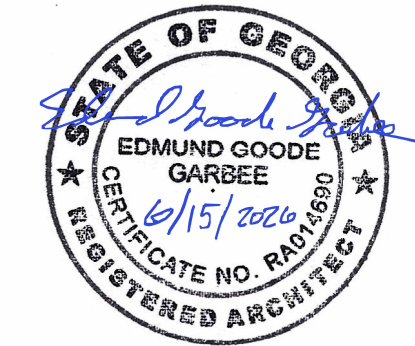
NAME OF PROJECT:	NAME OF PROJECT: FORT OGLETHORPE MUNICIPAL COURT RENOVATIONS
ADDRESS:	ADDRESS: 500 CITY HALL DRIVE, FORT OGLETHORPE, GEORGIA 30742
PROPOSED USE:	PROPOSED USE: MUNICIPAL COURT OPERATIONS
OWNER / CONTACT PERSON:	OWNER / CONTACT PERSON: PHILIP MINTON (706) 866-2544
GOVERNING CODES:	2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL EXISTING BUILDING CODE ICC A117.1-2011 ACCESSIBLE AND USABLE BUILDING AND FACILITIES 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PIPEL AND GAS CODE 2022 NATIONAL ELECTRICAL CODE (NFPA 70) 2015 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 LIFE SAFETY CODE (NFPA 101)

BUILDING DATA:

OCCUPANCY TYPE	TYPE B
CONSTRUCTION TYPE	TYPE II - B
SPRINKLERED	YES, PROTECTED THROUGHOUT WITH NFPA 13 SYSTEM
ACTUAL NO. OF STORIES	1
ACTUAL BUILDING HEIGHT	16'-0"
MEZZANINE	NO
HIGH RISE	NO
ALLOWABLE BUILDING AREA	SEE AREA CALCULATIONS ON SHEET LS-1.0
ACTUAL GROSS BUILDING AREA	39,127 SF
ALLOWED NO. STORIES	4
ALLOWED BUILDING HEIGHT	75 FT

Sheet List

Sheet Number	Sheet Name	Current Revision	Current Revision Date
T100	Cover Sheet		
LS-1.0	Building Code Summary and Life/Safety Plan		
LS-1.1	Life/Safety Plan		
D-1.1	Courts Demolition Floor Plan		
D-1.2	Courts Ceiling Demolition Plans		
A-1.1	Architectural Floor and Ceiling Plans		
A-3.1	Courts Interior Elevations and Details		
A-4.1	Door and Hardware Schedule and Details		
A-5.1	Courts Finish Plan		
M0.1	Mechanical Schedules & Notes		
M0.2	Mechanical Details		
M0.3	Mechanical Spaces		
M0.4	BAS Information		
M1.1	New Construction HVAC Plans		
M1.2	New Construction HVAC Roof Plan		
M2.1	Demo HVAC Plans		
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P1.0	Plumbing Plans		
P2.0	Roof Plumbing Plan		
FP0.1	Fire Protection Details & Notes		
FP0.2	Firestopping Details		
FP1.1	Court Wing Fire Protection Plan		
FP2.1	Court Wing Demo Fire Protection Plan		
E0.1	Elect - Project Schedule and Notes		
E0.2	Fire Alarm & Security Notes and Details		
E0.3	Firestop Details		
E0.4	Electrical Specifications		
E1.1	Lighting Plan		
E2.1	Power Plan		
E2.2	Roof Power Plan		
E3.1	Fire Alarm - Security Plans		
ED1.1	Lighting Demolition Plan		
ED2.1	Power Demolition Plan		
ED2.2	Roof Power Demolition Plan		
ED3.1	Fire Alarm - Security Demolition Plan		



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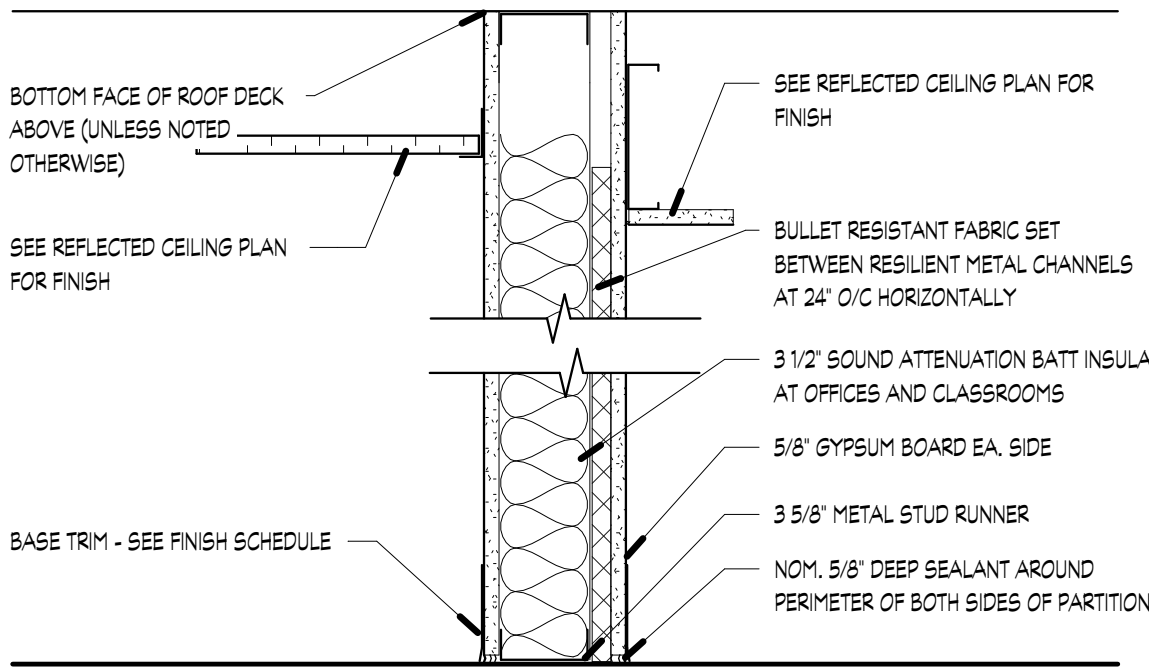
Revision Schedule

Rev. Number	Rev. Date	Revision Description
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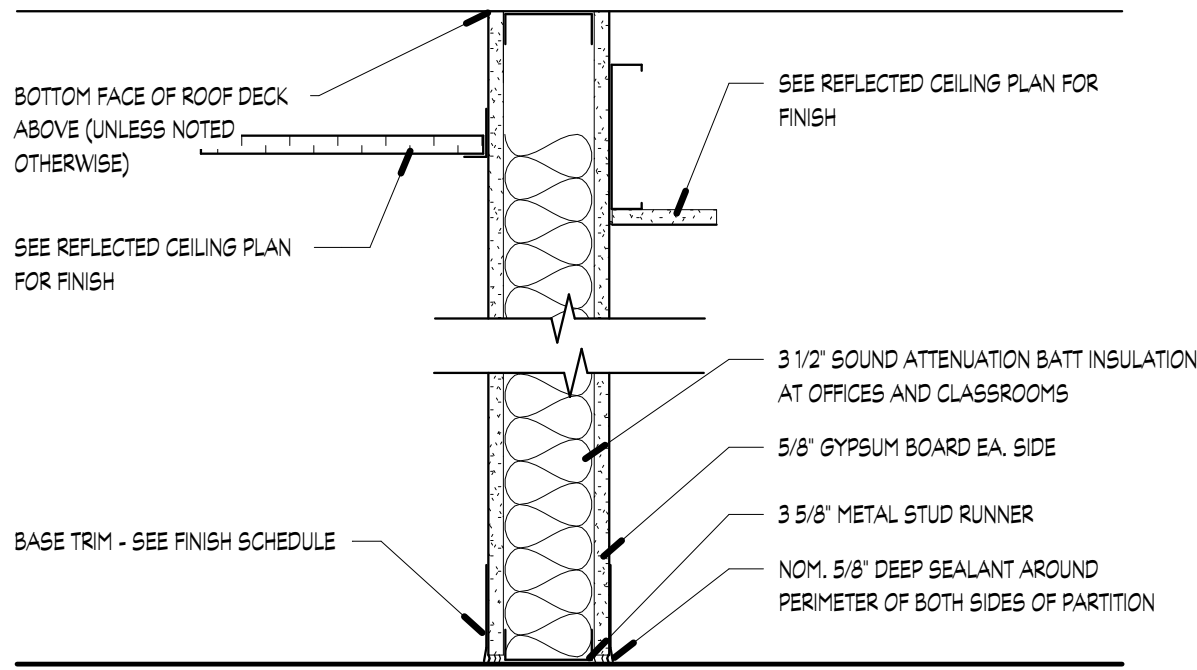
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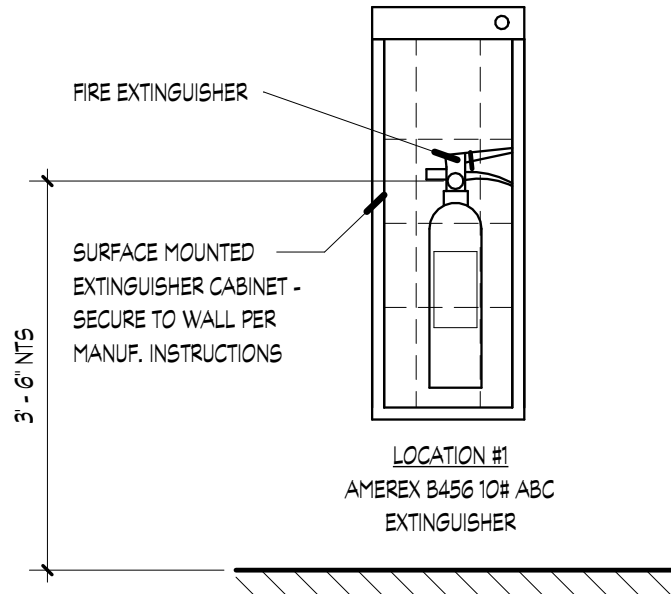
Cover Sheet



- 2 NON-BEARING WALL ASSEMBLY WITH PROJECTILE RESISTANT FABRIC**
- 3 5/8" METAL STUD FRAMING @ 16" O/C WITH 5/8" GYPSUM BOARD FINISH ON EXTERIOR SET ON 7/8" RESILIENT CHANNELS AT 24" O/C WITH UL752 RATED BULLET RESISTANT FABRIC BETWEEN CHANNELS. ONE LAYER OF 5/8" GYPSUM BOARD ON INTERIOR SIDE.



- 1 NON-BEARING WALL ASSEMBLY**
- 3 5/8" METAL STUD FRAMING @ 16" O/C WITH 5/8" GYPSUM BOARD FINISH ON EACH SIDE.



- FIRE EXTINGUISHER NOTES**
- WALL MOUNTED EXTINGUISHER**
1. PROVIDE AMEREX MODEL: B456 10# ABC FIRE EXTINGUISHERS.
 2. CORRIDOR AND KITCHEN AS INDICATED IN PLAN ON SHEET LS-1.1
 3. MOUNT TO WALL WITH MEDIUM FIRETECH METAL EXTINGUISHER CABINET

BUILDING CODE SUMMARY

DESIGNER OF RECORD

DESIGNER	NAME	LICENSE #	TELEPHONE #
ARCHITECTURAL	EDMUND G. GARBEE III	RA074690	423-364-2830
ELECTRICAL	THOMAS L. MILLER	15845	423-698-6675
PLUMBING	C. JEFFERY WESTBROOK	20700	423-698-6675
MECHANICAL	C. JEFFERY WESTBROOK	20700	423-698-6675
CIVIL / LANDSCAPE	CTI ENGINEERS		
SPRINKLER / STANDPIPE	C. JEFFERY WESTBROOK	20700	423-698-6675

BUILDING AREA MODIFICATIONS:

ACTUAL GROSS BUILDING AREA = 39,127 SF

AREA OF BUILDING CONTAINED WITHIN COURTS RENOVATION = 5,322 SF

AREA INCREASE CALCULATIONS: TYPE B OCCUPANCY

WIDTH LIMITS EQUATION 5-4: $W = (L_1 \times W_1 + L_2 \times W_2 + L_3 \times W_3 + \dots + L_n \times W_n) / F$ $F = 1,285 \text{ ft}$ $W = (35,906) / 1,285$ $W = 28$	FRONTAGE INCREASE EQUATION 5-5: $I = [F/P - 0.25]W/30$ $I = [1,285 / 1,620 - 0.25]28/30$ $I = 0.51$
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BUILDING AREA MODIFICATIONS

EQUATION 5-1: $A_1 = A + (NS \times I)$

$A_1 = 92,000 + (23,000 \times 0.51)$

$A_1 = 103,730 \text{ SF}$

ALLOWABLE GROSS AREA FOR HOTEL: 103,730 SF

FIRE RESISTANCE RATINGS:

FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS	REQUIRED HOURLY
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS AND PARTITIONS	
EXTERIOR	TABLE 602 0
NONBEARING WALLS AND PARTITIONS	
INTERIOR	0
FLOOR CONST. AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONST. AND ASSOCIATED SECONDARY MEMBERS	0

THIS BUILDING IS BEING SUBMITTED AS A NON-SEPARATED OCCUPANCY PER SECTION 508.3.

IEBC SECTION 803 FIRE PROTECTION

THE WORK AREA OF THIS PROJECT MEETS THE FOLLOWING CODE REQUIREMENTS:

SECTION 803.2.2 GROUPS A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 AND S-2

1. IN BUILDINGS WITH OCCUPANCIES IN GROUPS **A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 AND S-2**, WORK AREAS THAT HAVE EXITS OR CORRIDORS SHARED BY MORE THAN ONE TENANT OR THAT HAVE EXITS OR CORRIDORS SERVING AN OCCUPANT LOAD GREATER THAN 30 SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER PROTECTION WHERE ALL OF THE FOLLOWING CONDITIONS OCCUR:
 - A. THE WORK AREA IS REQUIRED TO BE PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH THE IBC AS APPLICABLE TO NEW CONSTRUCTION; AND
 - B. THE WORK AREA EXCEEDS 50% OF THE FLOOR AREA.

IEBC SECTION 803.4 FIRE ALARM AND DETECTION

THE WORK AREA OF THIS PROJECT MEETS THE FOLLOWING CODE REQUIREMENTS:

AN APPROVED FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 803.4.1 THROUGH 803.4.3, WHERE AUTOMATIC SPRINKLER PROTECTION IS PROVIDED IN ACCORDANCE WITH SECTION 803.2 AND IS CONNECTED TO THE BUILDING FIRE ALARM SYSTEM, AUTOMATIC HEAT DETECTION SHALL NOT BE REQUIRED.

AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72. DEVICES, COMBINATIONS OF DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE APPROVED. THE AUTOMATIC FIRE DETECTORS SHALL BE SMOKE DETECTORS, EXCEPT THAT AN APPROVED ALTERNATIVE TYPE OF DETECTOR SHALL BE INSTALLED IN SPACES SUCH AS BOILER ROOMS, WHERE PRODUCTS OF COMBUSTION ARE PRESENT DURING NORMAL OPERATION IN SUFFICIENT QUANTITY TO ACTUATE A SMOKE DETECTOR.

SECTION 803.4.1 OCCUPANCY REQUIREMENTS

A FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 803.4.1.1 THROUGH 803.4.1.6. EXISTING ALARM-NOTIFICATION APPLIANCES SHALL BE AUTOMATICALLY ACTIVATED THROUGHOUT THE BUILDING. WHERE THE BUILDING IS NOT EQUIPPED WITH A FIRE ALARM SYSTEM, ALARM-NOTIFICATION APPLIANCES WITHIN THE WORK AREA SHALL BE PROVIDED AND AUTOMATICALLY ACTIVATED.

- EXCEPTIONS:
1. OCCUPANCIES WITH AN EXISTING, PREVIOUSLY APPROVED FIRE ALARM SYSTEM.
 2. WHERE SELECTIVE NOTIFICATION IS PERMITTED, ALARM-NOTIFICATION APPLIANCES SHALL BE AUTOMATICALLY ACTIVATED IN THE AREAS SELECTED.

LIFE SAFETY SYSTEM:

EMERGENCY LIGHTING AND EXIT SIGNS	YES
FIRE ALARM AND SMOKE DETECTOR SYSTEMS	YES
PANIC HARDWARE	YES

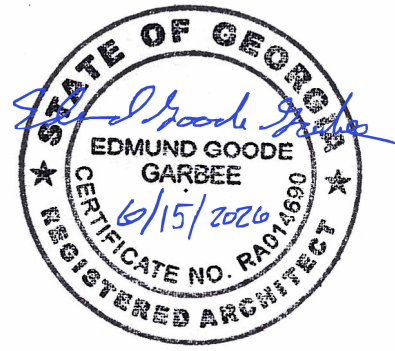
EXIT REQUIREMENTS:

DEAD END LIMIT - MAXIMUM CONDITION ALLOWED:	50' (SECTION 1020.4)
TRAVEL DISTANCE TO EXIT - MAXIMUM CONDITION ALLOWED:	OCCUPANCY TYPES A-3 : 250' (TABLE 1017.2) OCCUPANCY TYPE B: 300' (TABLE 1017.2)

COMMON PATH OF TRAVEL:	OCCUPANCY TYPE A-3: 75' (TABLE 1006) OCCUPANCY TYPE B: 100'
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OCCUPANCY CALCULATIONS:		
OCC. CLASS	OCCUPANCY CALCULATION	OCCUPANCY
BUSINESS (B)	1,257 SF NET	33
ASSEMBLY (A-3) LOBBY	1,489 SF NET	215
ASSEMBLY (A-3) COURT RM	1,360 SF NET 92 FIXED SEATS	92
STORAGE (S-2) FILES/CLOSET	195 SF NET	1
TOTAL OCCUPANCY:		341

EXIT WIDTH REQUIREMENTS:		
STAIR	CORRIDOR	DOORS
N / A	MIN. 44" - 60" PROVIDED	341 OCC. LOAD x 0.2 = 68.2' - 104" PROVIDED



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**Fort Oglethorpe
Courts Renovation**

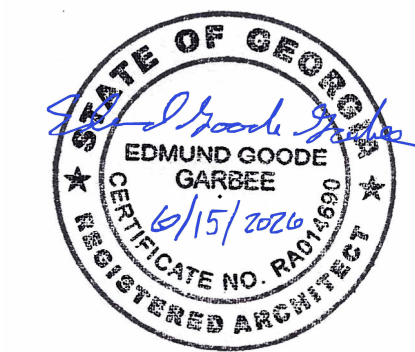
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Revision Schedule		
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Building Code Summary and Life/Safety Plan



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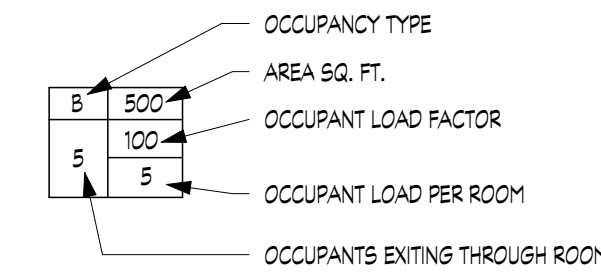
Life/Safety Plan

GENERAL LIFE/SAFETY PLAN NOTES

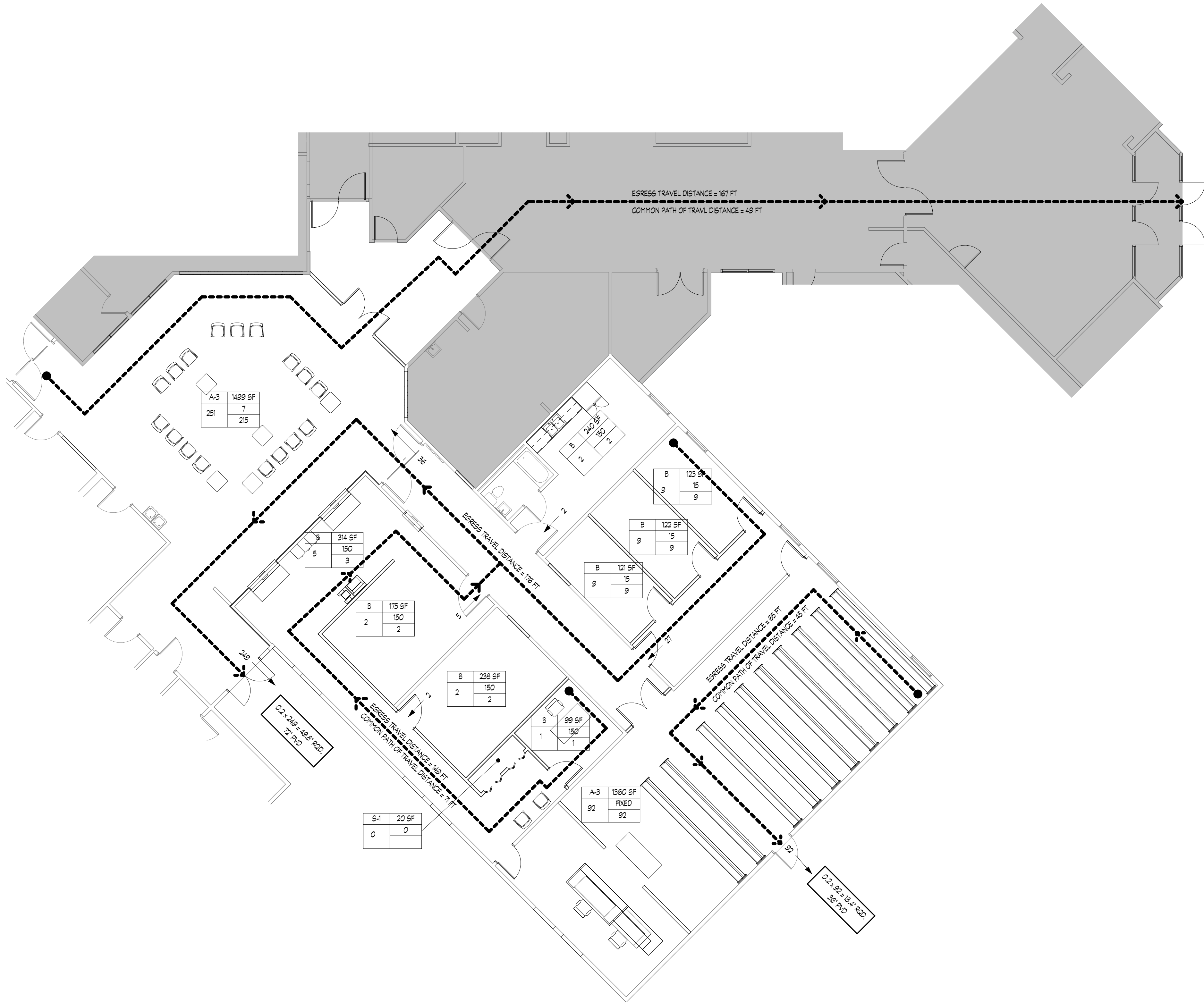
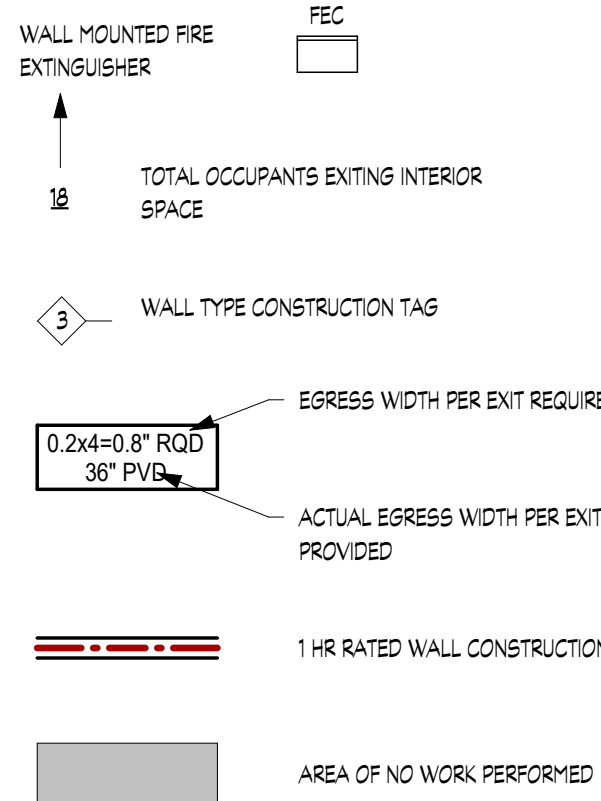
- ROOM AREAS WITH A BUSINESS OCCUPANCY CLASS B TOTAL SF OR LESS THAN 10% OF TOTAL AREA OF BUILDING LEVEL.
- CORRIDOR WALLS NOT REQUIRED TO BE CONSTRUCTED AS A RATED ASSEMBLY PER TABLE 1020.1
- ALL DOORS WITHIN EGRESS TRAVEL PATH FROM COURTS LOBBY PROVIDE EMERGENCY EGRESS HARDWARE.

LIFE SAFETY LEGEND

OCCUPANCY CALCULATION TAG



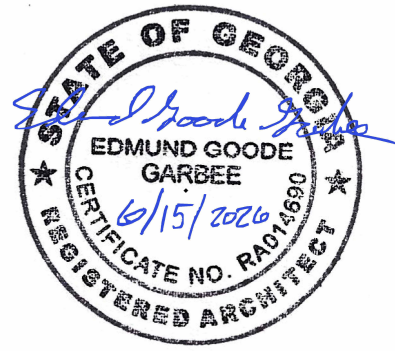
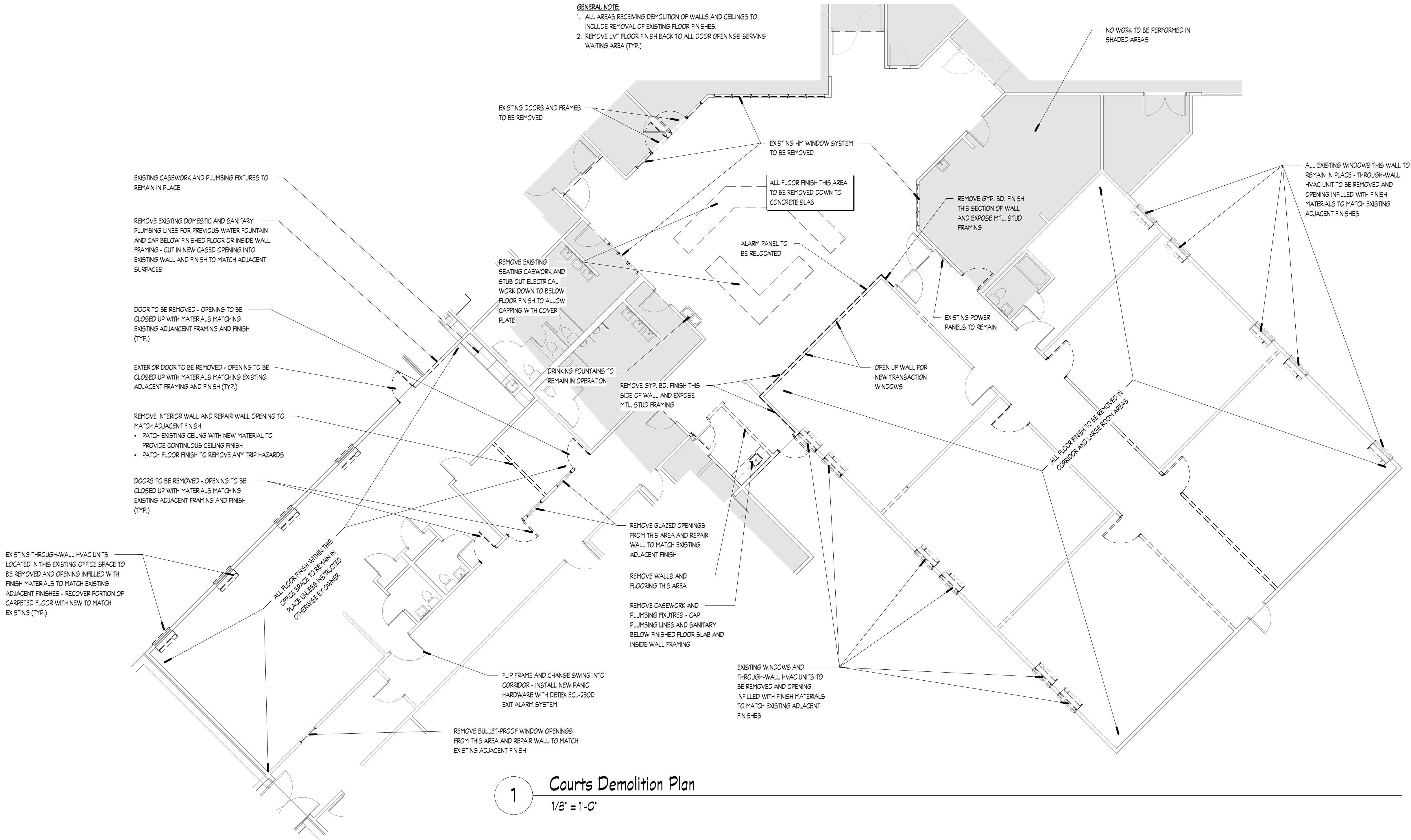
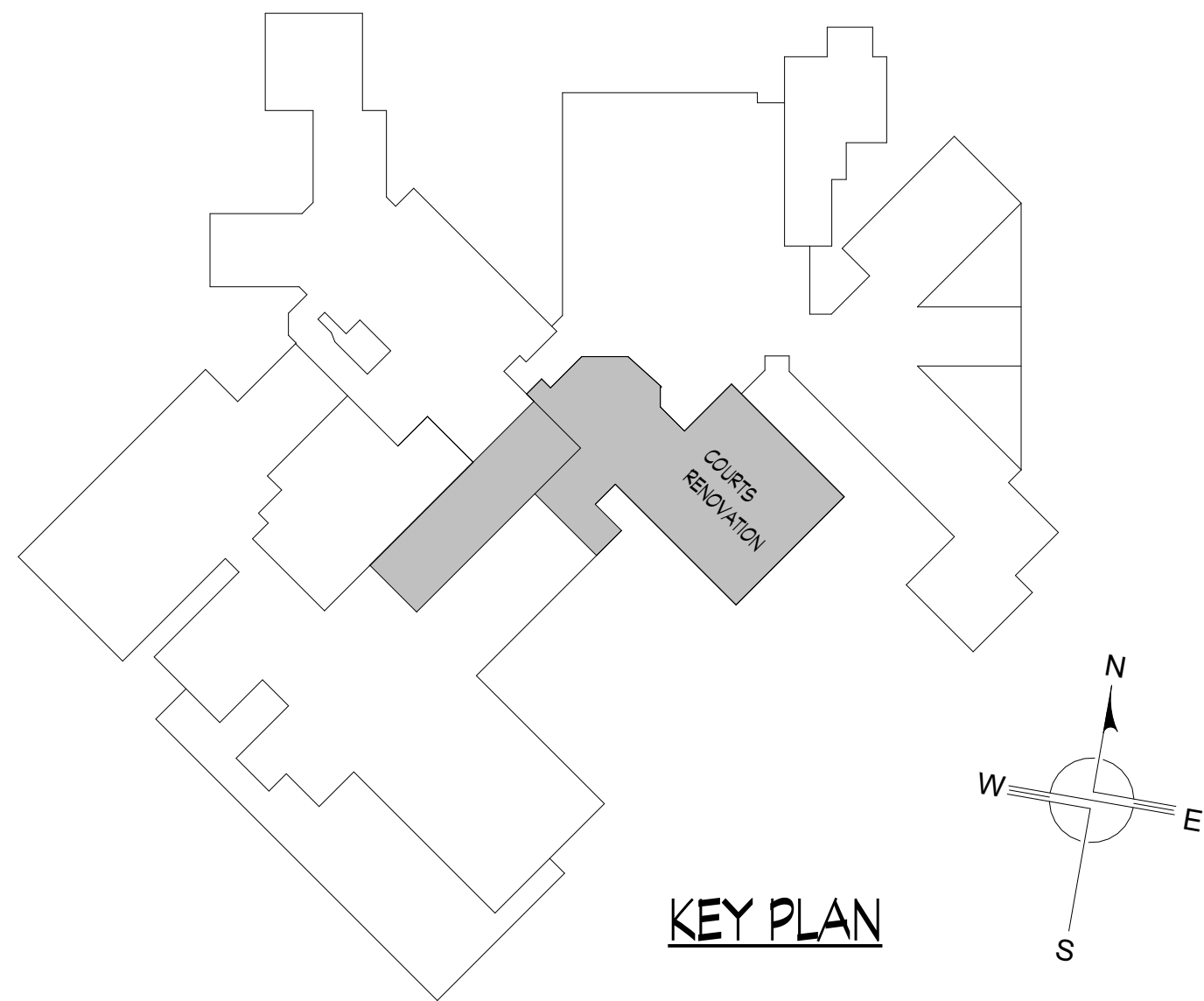
PLAN SYMBOLS



1 Life/Safety Plan
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. GENERAL DEMOLITION NOTES APPLY TO THE OVERALL TENANT SPACE HOWEVER SPECIFIC NOTES MAY BE INDICATED ON THE DEMOLITION FLOOR PLAN.
2. CONTRACTOR TO LIMIT DEMOLITION TO IMMEDIATE AREA AFFECTED BY ITEM NOTED FOR DEMOLITION UNLESS NOTED OTHERWISE.
3. ALL AREAS RECEIVING DEMOLITION OF WALLS AND CEILINGS TO INCLUDE REMOVAL OF EXISTING FLOOR FINISHES.
4. WHERE DEMOLITION REQUIRES EQUIPMENT TO BE REMOVED CONTRACTOR SHALL REPAIR REMAINING SURFACES (WALLS, FLOORS, ROOF STRUCTURE) TO PROVIDE A CLEAN SMOOTH SURFACE READY TO RECEIVE NEW FINISHES AS NOTED ON FINISH SCHEDULE
5. REMOVE EXISTING LIGHTING FIXTURES THAT CONFLICT WITH NEW WALL LOCATIONS. SAVE FIXTURES FOR POSSIBLE REUSE.
6. EXISTING PLUMBING FIXTURES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
7. WHERE EXISTING PLUMBING FIXTURES HAVE BEEN REMOVED, CAP ABANDONED LINES AND/OR REMOVE TO PROVIDE ROOM FOR NEW PLUMBING INSTALLATION.
8. ALL DOORS SHOWN ON DEMOLITION PLAN SHALL BE REMOVED AND STORED AT OWNERS DIRECTION UNLESS NOTED OTHERWISE.
9. WHERE EXISTING ELECTRICAL OUTLETS ARE LOCATED IN EXISTING ROOMS, REMOVE OUTLET COVERS AND PREPARE WALL FOR NEW FINISHES.
10. CLEAN AND REPAIR ALL EXISTING WALL SURFACES AND PREPARE EXISTING SURFACE FOR APPLICATION OF NEW FINISHES AS NOTED ON FINISH SCHEDULE.
11. REMOVE ALL EXISTING TILE FLOORING AND UNDERLAYMENT IN TOILETS. PREPARE SUB-FLOOR TO RECEIVE NEW FINISHES.
12. WHERE EXISTING OPENINGS PENETRATE A WALL TO REMAIN, ALL OPENINGS ARE TO BE PATCHED WITH NEW CONSTRUCTION TO MATCH FINISHED PRODUCT.



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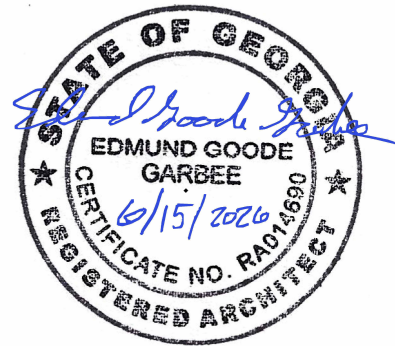
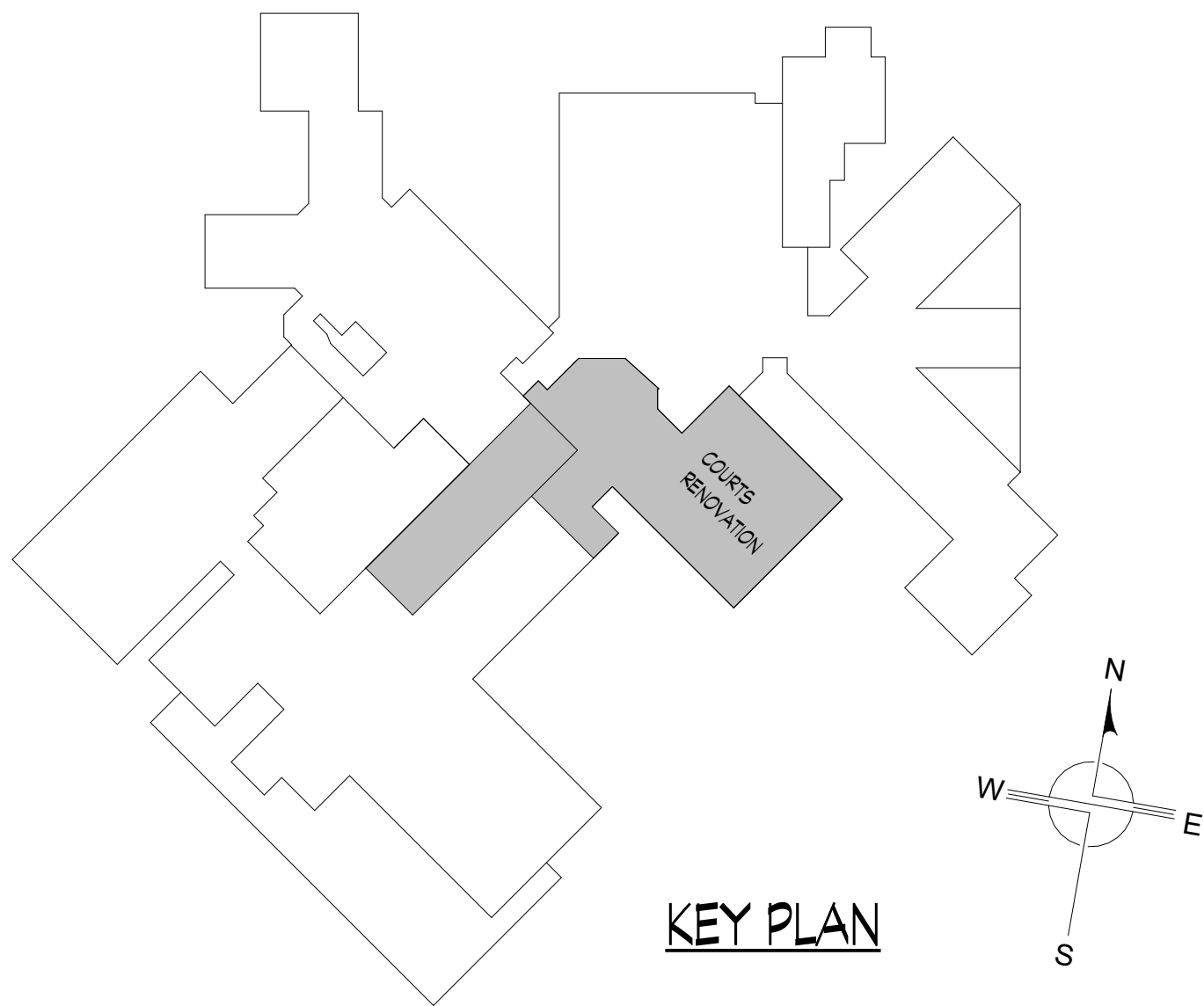
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Courts Demolition Floor Plan

GENERAL DEMOLITION NOTES

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5. REMOVE EXISTING LIGHTING FIXTURES THAT CONFLICT WITH NEW WALL LOCATIONS. SAVE FIXTURES FOR POSSIBLE REUSE.
6. EXISTING PLUMBING FIXTURES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
7. WHERE EXISTING PLUMBING FIXTURES HAVE BEEN REMOVED, CAP ABANDONED LINES AND/OR REMOVE TO PROVIDE ROOM FOR NEW PLUMBING INSTALLATION.
8. ALL DOORS SHOWN ON DEMOLITION PLAN SHALL BE REMOVED AND STORED AT OWNER'S DIRECTION UNLESS NOTED OTHERWISE.
9. WHERE EXISTING ELECTRICAL OUTLETS ARE LOCATED IN EXISTING ROOMS, REMOVE OUTLET COVERS AND PREPARE WALL FOR NEW FINISHES.
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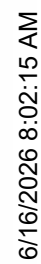
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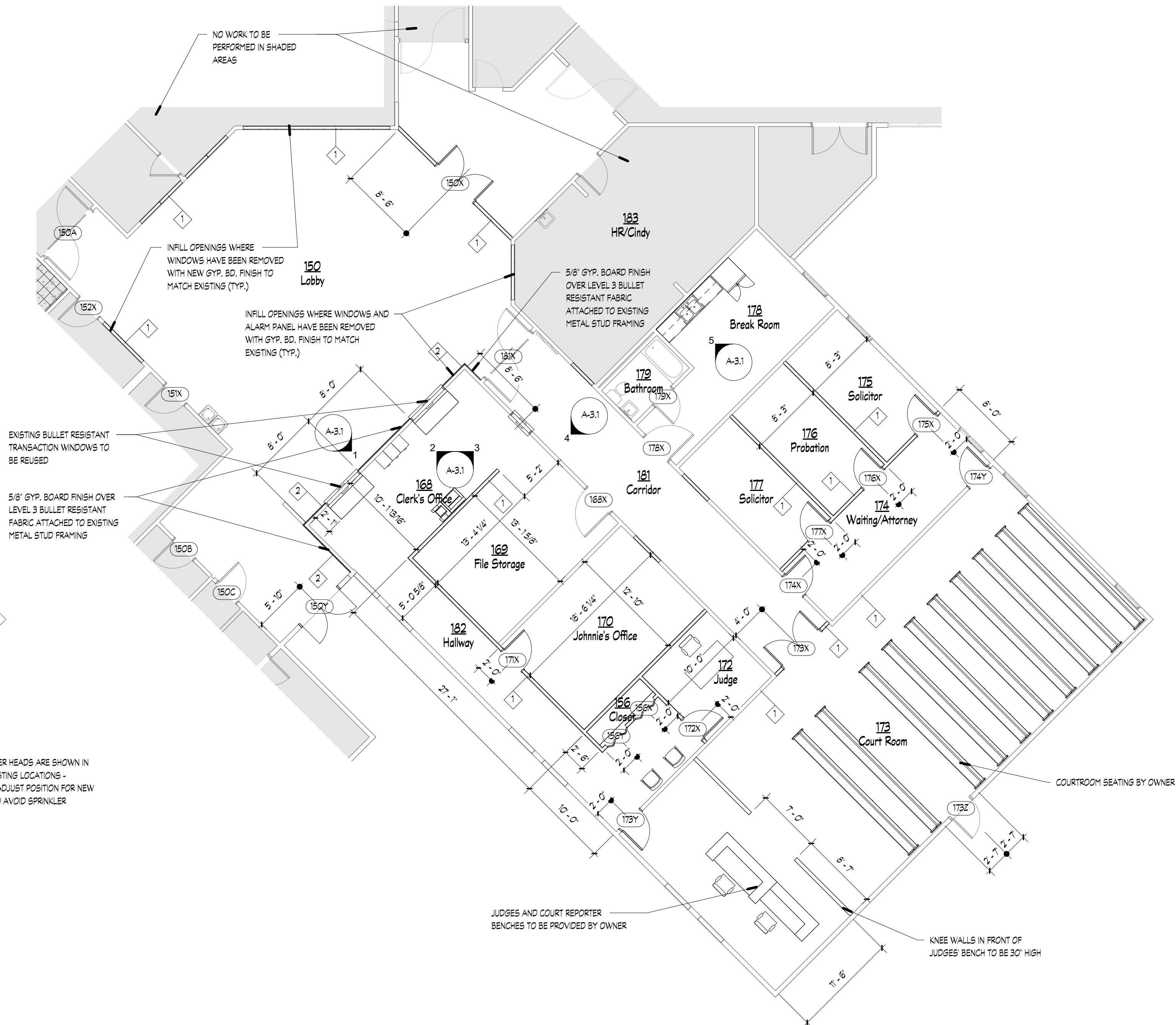
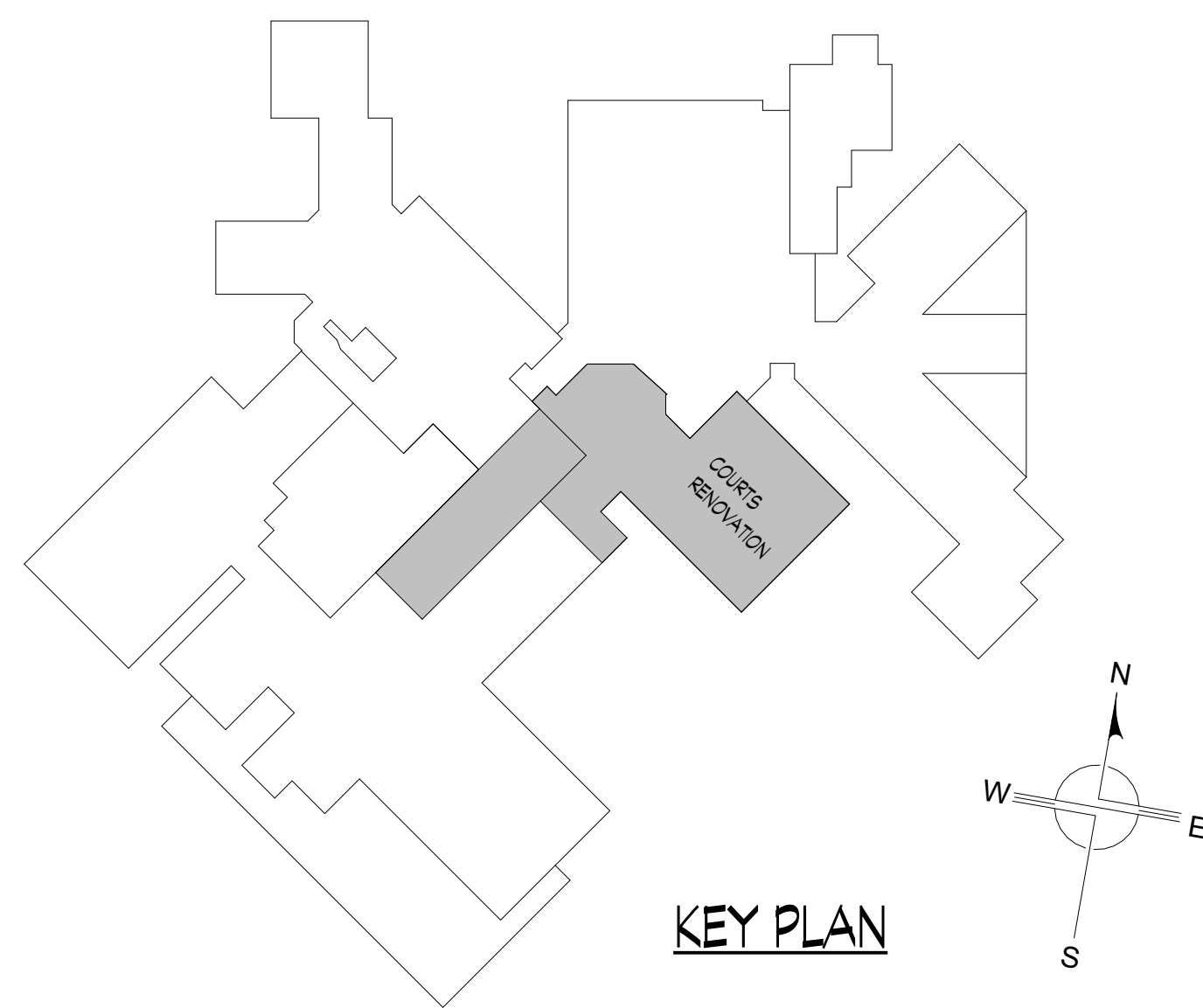
Courts Ceiling
Demolition Plans

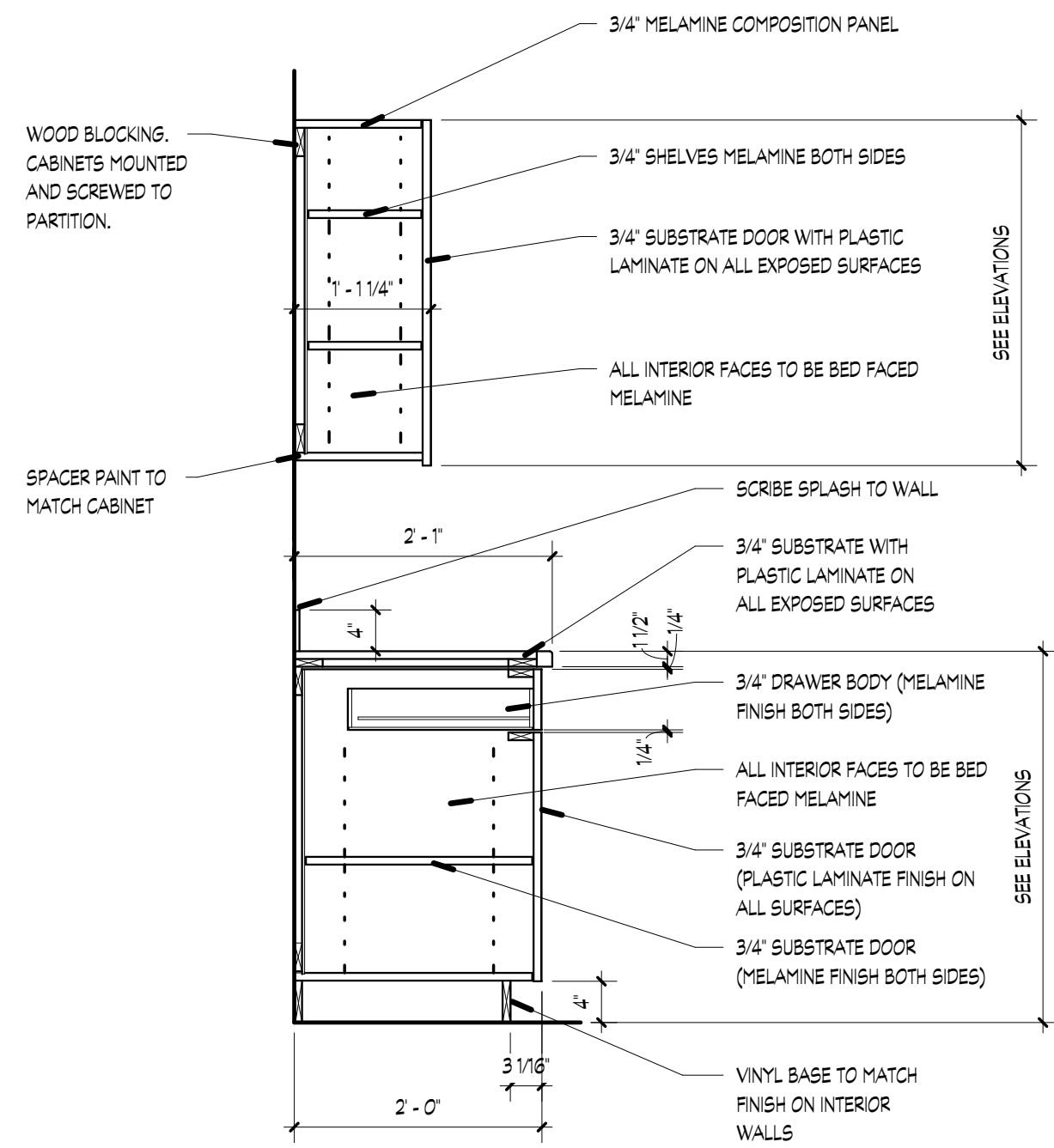


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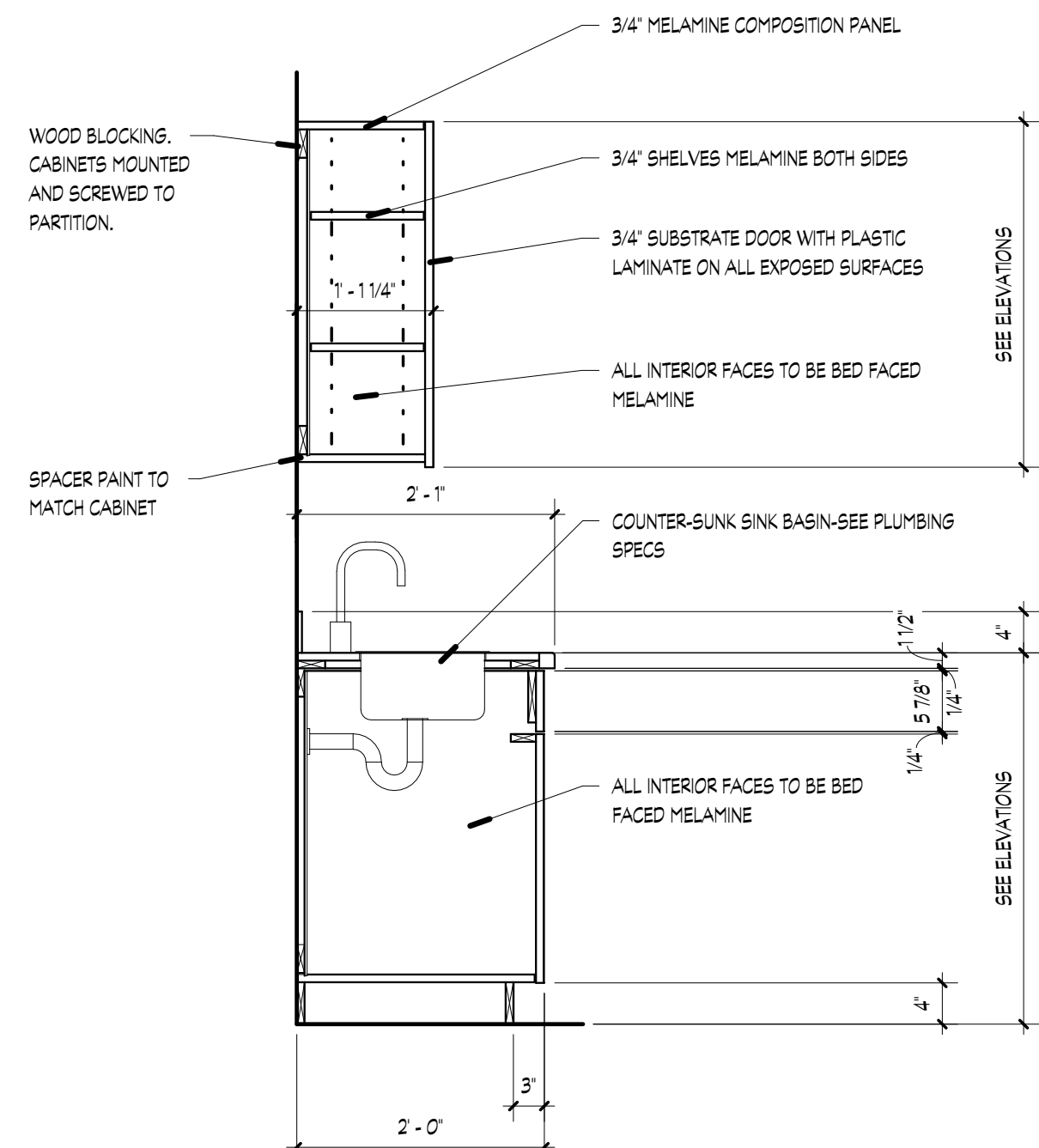
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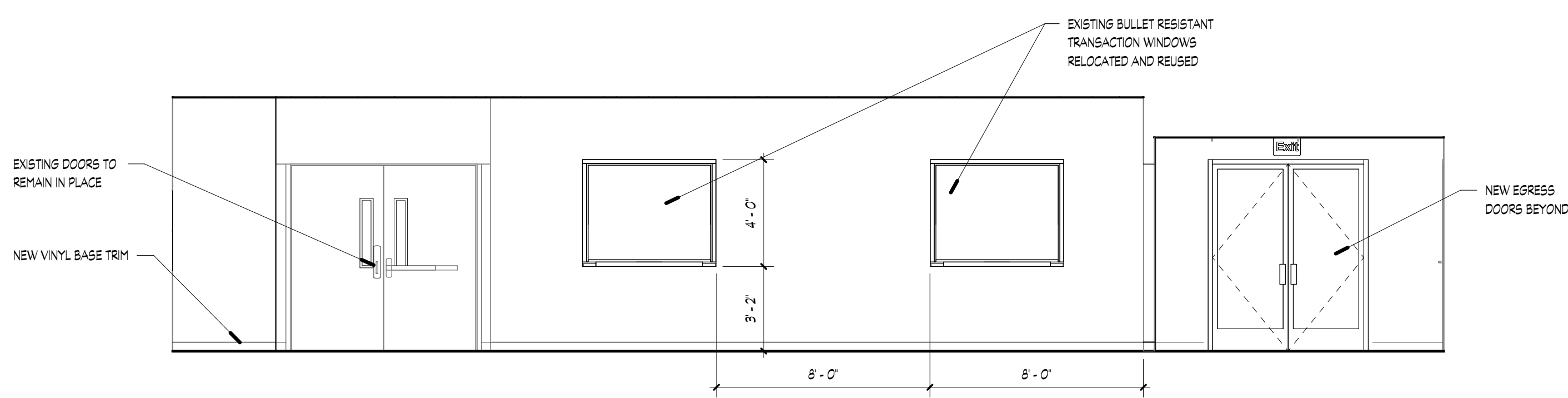

$$1/8'' = 1'-0''$$



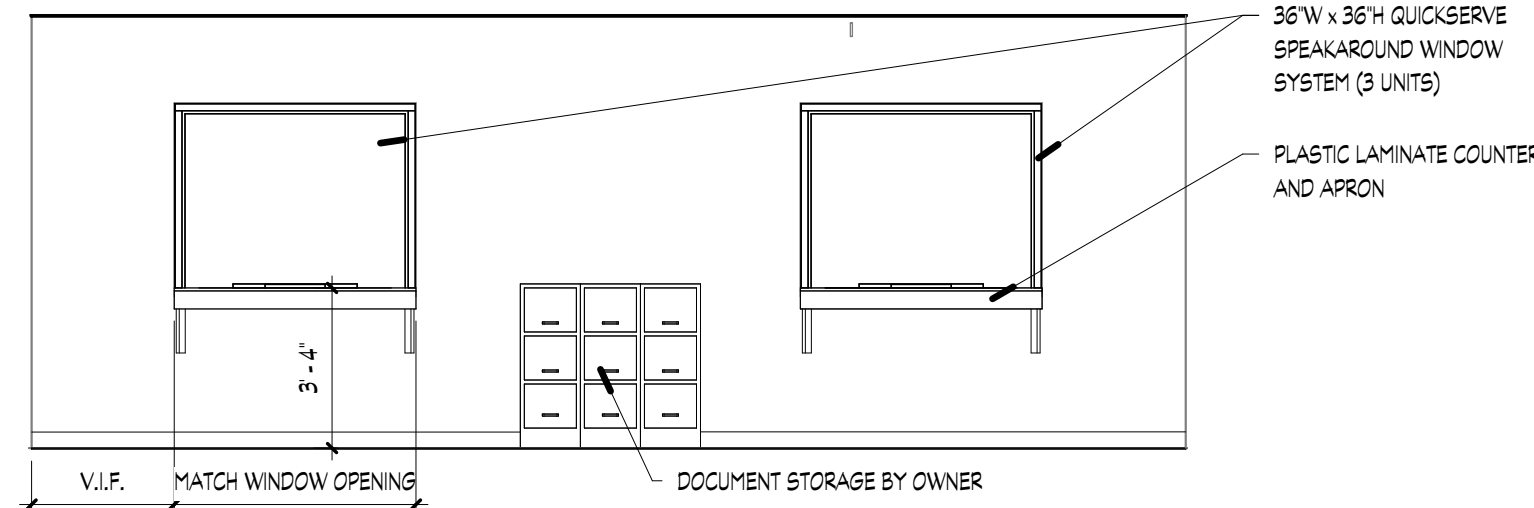
7 Section @ Work Counter
3/4" = 1'-0"



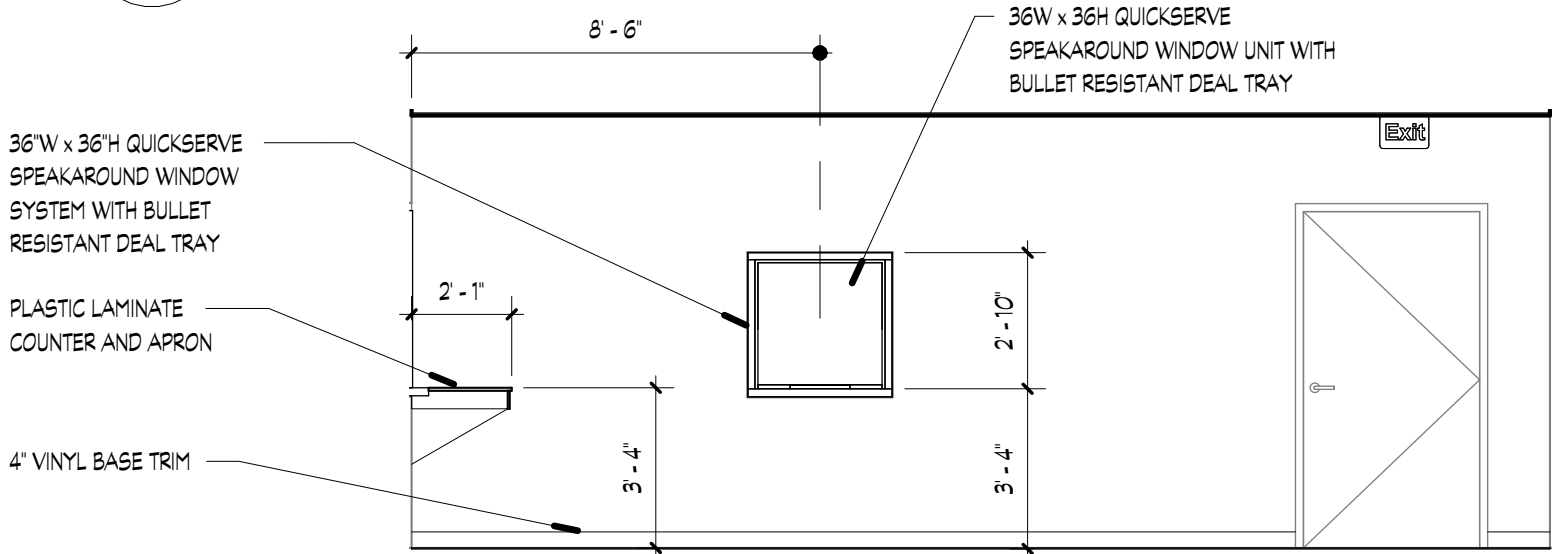
6 Section @ Sink Cabinet
3/4" = 1'-0"



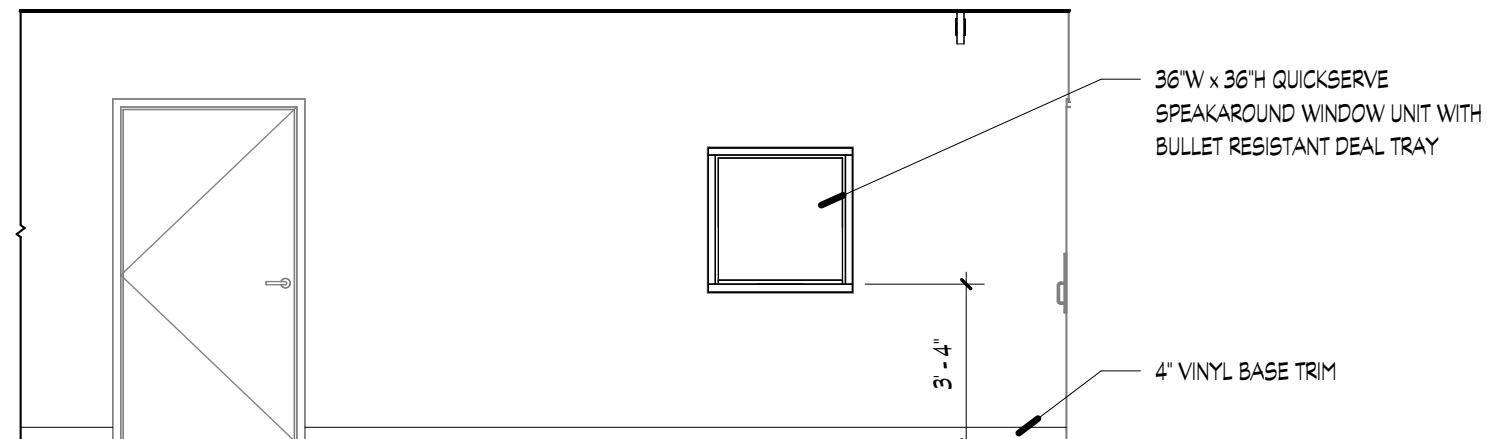
1 Lobby 150
1/4" = 1'-0"



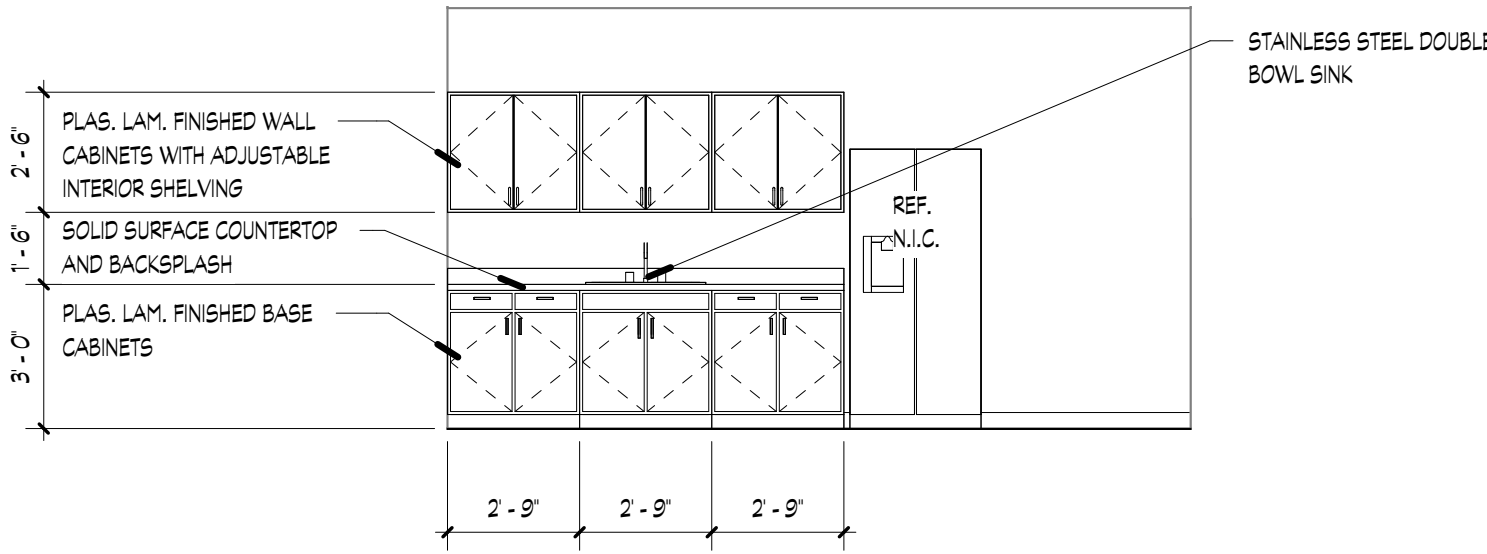
2 Clerk's Office 168 NW
1/4" = 1'-0"



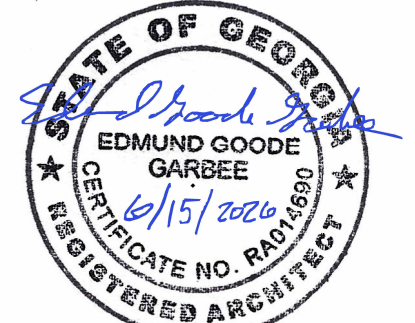
3 Clerk's Office 168 NE
1/4" = 1'-0"



4 Corridor 181
1/4" = 1'-0"



5 Breakroom 178
1/4" = 1'-0"



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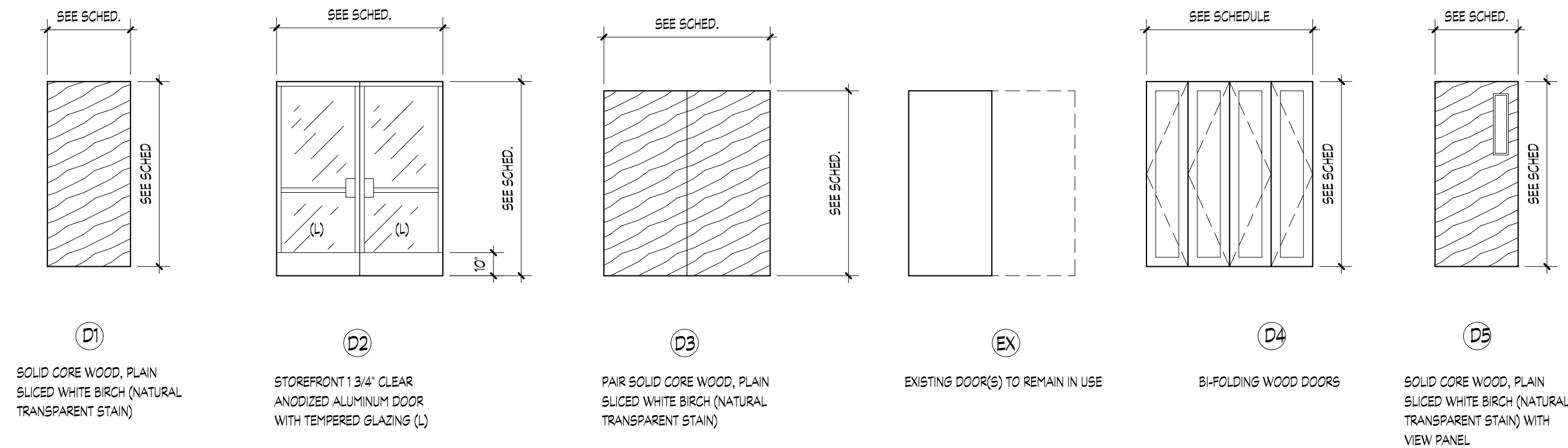
**Fort Oglethorpe
Courts Renovation**

500 City Hall Drive
Fort Oglethorpe Georgia 30742

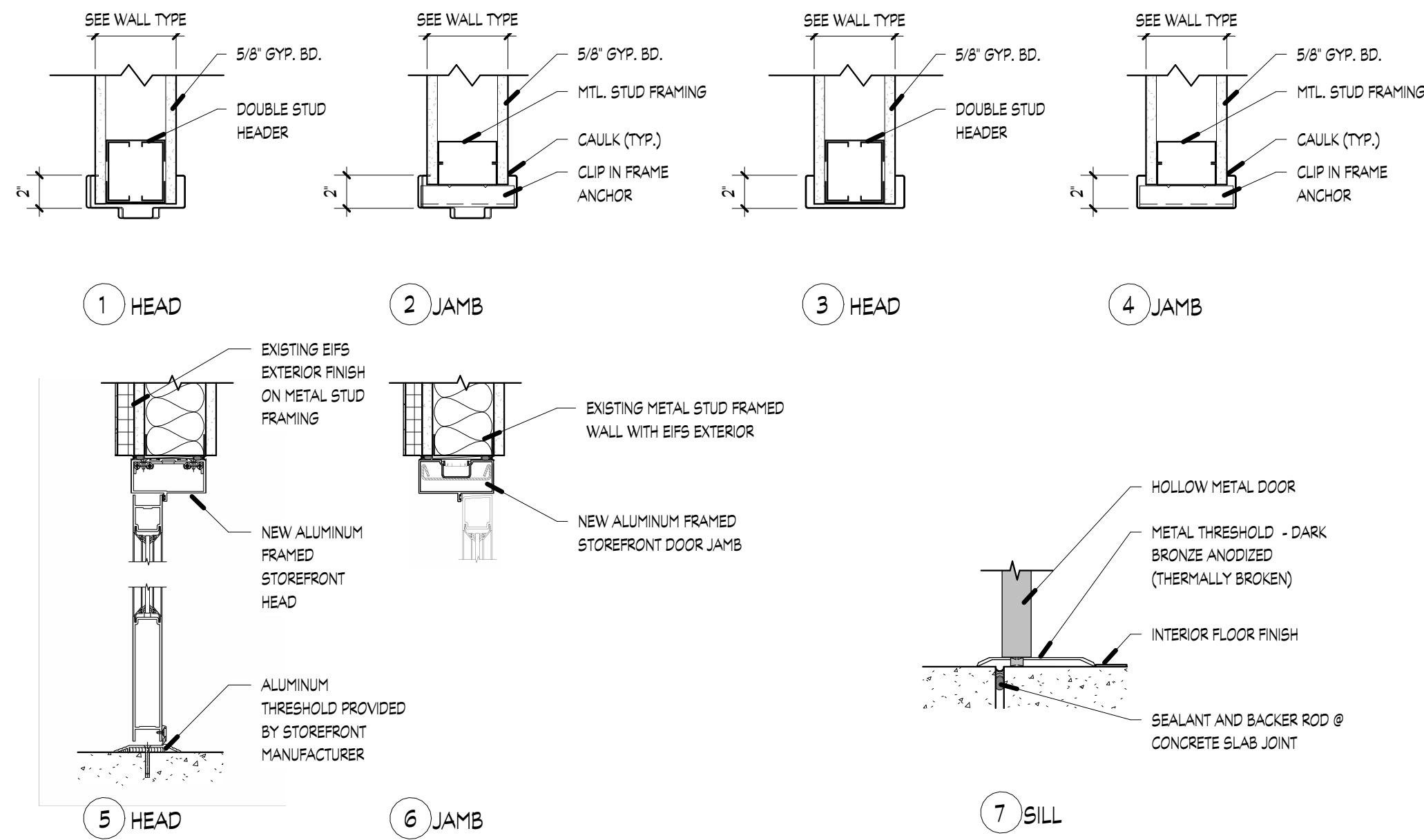
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Release Date: 6/15/2026
Project No.: 25-001
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Courts Interior
Elevations and Details



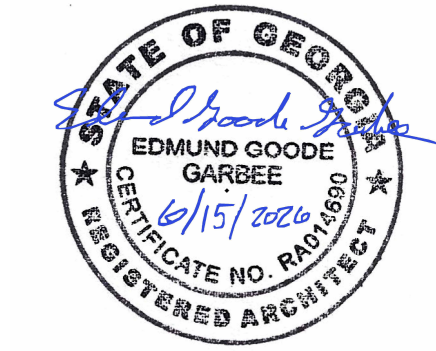
1 Door Types
1/4" = 1'-0"



2 Door Details
1 1/2" = 1'-0"

Courts Door Schedule									
Mark	Type	Width	Height	Thickness	Hardware Schedule	Head Detail	Jamb Detail	Sill Detail	Comments
150A	D19	7'-0"	7'-0"	1 3/4"	6				Existing Door
150B	EX	3'-0"	7'-0"	1 3/4"	EX				Existing Door
150C	EX	3'-0"	7'-0"	1 3/4"	EX				Existing Door
150X	D3	5'-8"	7'-0"	1 3/4"	7	1			
150Y	D2	5'-8"	7'-0"	1 3/4"	5	5	6	5	
151X	EX	3'-0"	7'-0"	1 3/4"	EX				Existing Door
152X	EX	3'-0"	7'-0"	1 3/4"	EX				Existing Door
156X	D4	3'-0"	7'-0"	1 1/2"	9	3	4		
156Y	D4	3'-0"	7'-0"	1 1/2"	9	3	4		
156X	EX	3'-8"	7'-0"	1 3/4"	8				Existing Door
171X	D5	3'-0"	7'-0"	1 3/4"	3	1	2		
172X	D1	3'-0"	7'-0"	1 3/4"	3	1	2		
173X	D3	5'-8"	7'-0"	1 3/4"	7	1	2		
173Y	D1	3'-0"	7'-0"	1 3/4"	8	1	2		
173Z	EX	3'-0"	7'-0"	1 3/4"	Panic Hardware				Existing Door
174X	D1	3'-0"	7'-0"	1 3/4"	3	1	2		
174Y	D1	3'-0"	7'-0"	1 3/4"	10	1	2		
175X	D1	3'-0"	7'-0"	1 3/4"	4	1	2		
176X	D1	3'-0"	7'-0"	1 3/4"	4	1	2		
177X	D1	3'-0"	7'-0"	1 3/4"	4	1	2		
178X	EX	3'-8"	7'-0"	1 3/4"	1				Existing Door
179X	EX	2'-8"	7'-0"	1 3/4"	EX				Existing Door
181X	EX	7'-0"	7'-0"	1 3/4"	6				Existing Door

HARDWARE SCHEDULE	
TYPE 1: STORAGE A. 1 1/2 PAIR HAGER BALL BEARINGS BB1279-4 1/2 x 4 1/2 x US26D B. 1 SCHLAGE AL60PD SAT (STOREROOM LOCK), US26D FINISH C. 3 GLYNN JOHNSON SILENCERS D. 1 BALDWIN 4010 FLOOR STOP	TYPE 6: EXISTING FOB OPERATED DOORS TAGGED WITH THIS SET HAVE AN EXISTING SYSTEM THAT WILL BE RECONFIGURED BY THE OWNER.
TYPE 2: TOILET (PRIVACY) A. 1 1/2 PAIR HAGER BALL BEARINGS BB1279-4 1/2 x 4 1/2 x US26D B. 1 SCHLAGE AL40S SAT (PRIVACY LOCK), US26D FINISH C. 3 GLYNN JOHNSON SILENCERS D. 1 IVES #407 1/2 US26D FINISH WALL STOP - WHERE REQUIRED	TYPE 7: KEY FOB OPERATED (DOUBLE DOORS) A. 3 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D B. FOB OPERATED LOCKING HARDWARE SELECTED BY OWNER C. 3 GLYNN JOHNSON SILENCERS D. 2 LCN 4040XP SURFACE CLOSERS WITH ADJUSTABLE HOLD-OPEN
TYPE 3: OFFICE A. 1 1/2 PAIR HAGER BALL BEARINGS BB1279-4 1/2 x 4 1/2 x 626 B. 1 SCHLAGE AL60PD SAT (ENTRANCE, OFFICE), US26D FINISH C. 3 GLYNN JOHNSON SILENCERS D. 1 IVES #407 1/2 US26D FINISH WALL STOP	TYPE 8: KEY FOB OPERATED (SINGLE DOOR) A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D B. FOB OPERATED LOCKING HARDWARE SELECTED BY OWNER C. 3 GLYNN JOHNSON SILENCERS D. 2 LCN 4040XP SURFACE CLOSERS WITH ADJUSTABLE HOLD-OPEN
TYPE 4: PASSAGE LATCH A. 1 1/2 PAIR HAGER BALL BEARINGS BB1279-4 1/2 x 4 1/2 x US26D B. 1 SCHLAGE AL10S SAT (PASSAGE LATCH), US26D FINISH C. 3 GLYNN JOHNSON SILENCERS D. 1 BALDWIN 4010 FLOOR STOP	TYPE 9: BI-FOLDING A. HEAVY-DUTY TOP RAIL B. HEAVY-DUTY HARDWARE SET
TYPE 5: STOREFRONT (DOUBLE DOORS) A. 2 PAIR IVES #7215-INT INTERMEDIATE OFFSET PIVOTS B. 1 PAIR JACKSON 2086 CONCEALED ROD EXIT DEVICE F. 1 PAIR BOTTOM DOOR SWEEPS G. 2 LCN 4040XP SURFACE CLOSERS WITH ADJUSTABLE HOLD-OPEN H. 1 PER DOOR CO-12 PULL J. 1 KAWNEER 1 1/2x6-3/4" ALUMINUM MILL FINISH THRESHOLD	TYPE 10: PASSAGE (ONE WAY) A. 1 1/2 PAIR HAGER BALL BEARING BB1279-4 1/2 x 4 1/2 x US26D B. 1 SCHLAGE AL2SD SAT (EXIT LOCK), US26D FINISH (COURTROOM SIDE) C. 3 GLYNN JOHNSON SILENCERS D. 1 IVES #407 1/2 US26D FINISH WALL STOP
	TYPE EX: EXISTING HARDWARE SET DOORS TAGGED WITH THIS SET HAVE EXISTING HARDWARE IN PLACE AND WILL REMAIN UNCHANGED



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Fort Oglethorpe
Courts Renovation

500 City Hall Drive
Fort Oglethorpe Georgia 30742

Revision Schedule			
Rev. Number	Rev. Date	Revision Description	

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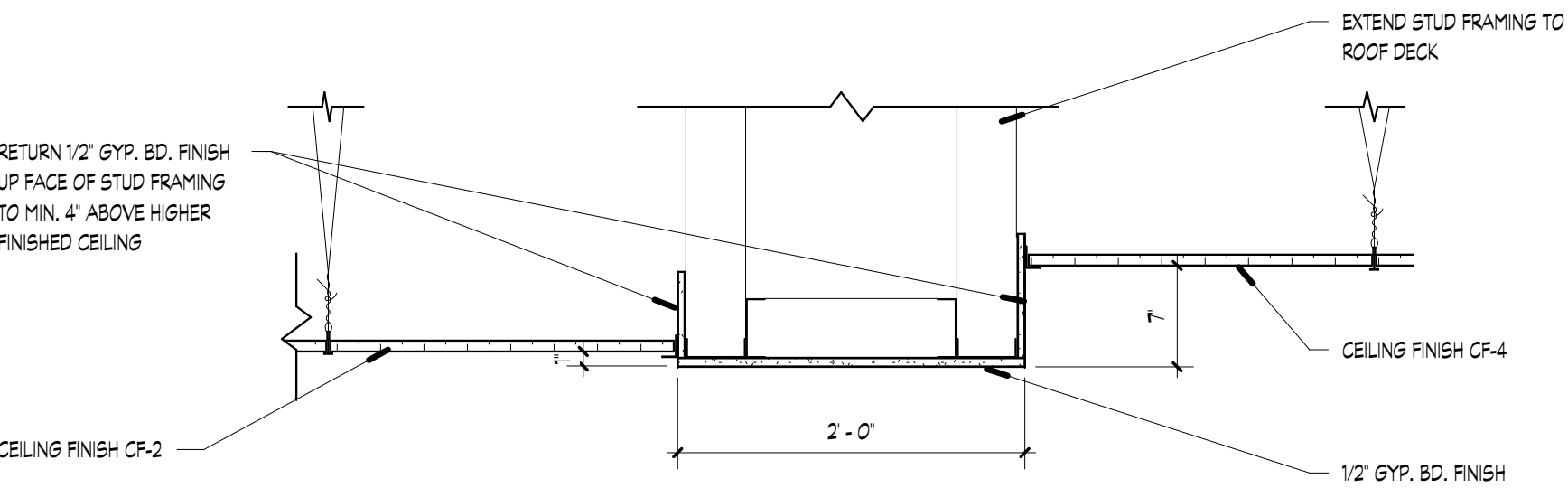
Door and Hardware
Schedule and Details

Courts Room Finish Schedule						
Number	Name	Area	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
150	Lobby	1489 SF	FF-2/FF-3	BF-1	WF-1	CF-2
156	Closet	20 SF				
168	Clerk's Office	314 SF	FF-2	BF-1	WF-1	CF-1
169	File Storage	175 SF	FF-2	BF-1	WF-1	CF-1
170	Johnnie's Office	238 SF	FF-2	BF-1	WF-1	CF-1
172	Judge	99 SF	FF-2	BF-1	WF-1	CF-1
173	Court Room	1360 SF	FF-4	BF-1	WF-1	CF-1
174	Waiting/Attorney	186 SF	FF-2	BF-1	WF-1	CF-1
175	Solicitor	123 SF	FF-2	BF-1	WF-1	CF-1
176	Probation	122 SF	FF-2	BF-1	WF-1	CF-1
177	Solicitor	121 SF	FF-2	BF-1	WF-1	CF-1
178	Break Room	240 SF	FF-2	BF-1	WF-1	Ex
179	Bathroom	42 SF	Ex	Ex	Ex	Ex
180	Storage	Not Placed	FF-2	BF-1	WF-1	CF-1
181	Corridor	362 SF	FF-4	BF-1	WF-1	Ex
182	Hallway	247 SF	FF-2	BF-1	WF-1	CF-1
183	HR/Cindy	465 SF	Ex	Ex	Ex	Ex

FINISHES TAG LEGEND	
FLOOR FINISH TYPES:	
FF - 1:	FLOOR FINISH (H&C CLARISHIELD WATER BASED CLEAR SEALER)
FF - 2:	FLOOR FINISH (CARPET TILE) 18x18 OWNER APPROVED - CONTRACTOR INSTALLED
FF - 3:	FLOOR FINISH (PORCELAIN TILE) OWNER APPROVED - CONTRACTOR INSTALLED
FF - 4:	FLOOR FINISH (LUXURY VINYL TILE) OWNER APPROVED - CONTRACTOR INSTALLED
BASE TRIM TYPES:	
BF - 1:	BASE FINISH - CAFETERIA (ROPPE 700 SERIES) 150 DARK GRAY
WALL FINISH TYPES:	
WF - 1:	WALL FINISH (SHERWIN WILLIAMS PAINT) OWNER APPROVED COLOR
CEILING FINISH TYPES:	
CF - 1:	CEILING FINISH (ARMSTRONG ULTIMA 18"24"HC 24x48x3/4 BEVELED REGULAR 15/16)
CF - 2:	CEILING FINISH (ARMSTRONG ULTIMA 18"24"HC 24x24x3/4 BEVELED REGULAR 15/16)
CF - 3:	CEILING FINISH (5/8" GYPSUM BOARD) PAINTED
CF - 4:	CEILING FINISH (ARMSTRONG 5404F01W1 NATURAL VARIATIONS LIGHT CHERRY 2x2 WOOD LAY-IN
CEILING SUSPENSION SYSTEM TO BE ARMSTRONG PRELUDE XL HRC (COLOR: WHITE)	
Ex:	DENOTES EXISTING FINISH MATERIAL TO REMAIN IN PLACE.

- GENERAL FINISH NOTES:
- ALL FINAL FINISH MATERIALS TO BE APPROVED BY OWNER - INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO PROVIDE PAINT COLOR SAMPLE CHAIN FOR OWNER SELECTION AND APPROVAL.
 - ALL TILE SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION - PROVIDE SAMPLE INSTALL FOR OWNER REVIEW.

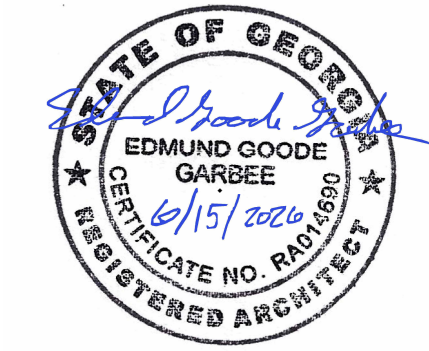
FINISH PLAN LEGEND	
EXISTING	CEILING FINISH
102	ROOM NUMBER
CF-1	ROOM FINISH TAG
BF-1	BASE FINISH
WF-1	WALL FINISH
FF-1	FLOOR FINISH
WT - 1	LENGTH OF WALL TO RECEIVE FINISH TYPE
TD-1	FINISH TRANSITION SECTION CUT AND DETAIL NUMBER (DETAILS ON SHT. A5.6)
	LVT PLANK
	CARPET 1
	PORCELAIN TILE



2 Section @ Lobby Soffit
1" = 1'-0"



1 Courts Finish Plan
1/8" = 1'-0"



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Fort Oglethorpe
Courts Renovation

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Courts Finish Plan

Rooftop Unit Schedule - Gas Heat																											
Mark	Manufacturer	Model No.	Nominal Size	Air Flow		ESP	EER	SEER	IEEER	Gross Total	Gross Sensible	Cooling Section				Heating Section				Filter	Electrical				Operating Weight	Notes	
				Supply Air	Outdoor Air							E.A.T.		L.A.T.		Stages	Input	Output	E.A.T.		L.A.T.	Voltage	Phase	MCA			MOCP
												D.B.	W.B.	D.B.	W.B.												
RTU-1	Trane	YSK060A3SSL	5 tons	2000 CFM	250 CFM	0.50 in-wg	12	14		61,680 Btu/h	48,130 Btu/h	80.00 °F	67.00 °F	59.30 °F	57.64 °F	2	80,000 Btu/h	64,800 Btu/h	65.00 °F	94.87 °F	MERV-8	208 V	3	36.0 A	50 A	850 lb	1-9
RTU-2	Trane	YSK120A3SSL	10 tons	3700 CFM	550 CFM	0.50 in-wg	11		14.6	125,040 Btu/h	93,920 Btu/h	80.00 °F	67.00 °F	58.08 °F	56.60 °F	2	150,000 Btu/h	121,500 Btu/h	65.00 °F	95.04 °F	MERV-8	208 V	3	62.0 A	80 A	1300 lb	1-10

- Notes:
- Thermostat, 7-day programmable touchscreen
 - Advanced Controls and BACnet BAS
 - Roof Curb, Coordinate Height with Roofing Contractor
 - Condensate Overflow Switch
 - Bi-Polar Ionization
 - Hinged Access Panels
 - Non-Fused Disconnect Switch
 - Powered 15A Convenience Outlet
 - Economizer, Comparative Enthalpy with Barometric Relief
 - CO2 Sensor, Duct Mounted

Fan Schedule													
Mark	Manufacturer	Model	Description	Air Flow	E.S.P.	Fan Drive Type	Electrical			Control	Sones	Weight	Notes
							Power	Volt	Phase				
EF-1	Greenheck	SP-A90	Ceiling Exhaust Fan	75 CFM	0.25 in-wg	Direct	15 W	120 V	1	Switch with Lights	1.5	10 lb	1-6

- Notes:
- Solid State Speed Control, 6 Amp, Shipped Loose
 - Round Duct Connector
 - Isolation Kit, Shipped Loose
 - Adjustable easy installation mounting bracket
 - Standard Grille
 - Polypropylene Wheel Material

Air Terminal Schedule					
Mark	Manufacturer	Model	Description	Material	Size
RG-1	Price	80	Ceiling Return Grille	Steel	12"x24"
RG-2	Price	80	Ceiling Return Grille	Steel	24"x24"
SD-1	Price	SCD	Rectangular Face Ceiling Supply Diffuser - 24"x24" Face	Steel	6"ø
SD-2	Price	SCD	Rectangular Face Ceiling Supply Diffuser - 24"x24" Face	Steel	8"ø
SD-3	Price	SCD	Rectangular Face Ceiling Supply Diffuser - 24"x24" Face	Steel	10"ø

- Notes:
- Noise criteria shall not exceed 25.
 - Contractor shall coordinate border with ceiling type (Lay-In Or Gyp.).
 - Refer to Mechanical Floor Plan(s) For CFM.
 - Air devices are 4-way throw (unless noted otherwise on mechanical floor plans).
 - Supply air terminals shall be supplied with opposed blade damper.
 - Provide manual volume damper at main trunk take-off for balancing (supply and return).
 - Air terminal finishes shall be per Architect.

Gravity Ventilator Schedule						
Mark	Manufacturer	Model	Air Flow	Pressure Drop	Weight (lbs)	Notes
GRSR-12	Greenheck	GRSR-12	75 CFM	0.001	30	1

- Notes:
- Insect Screen

Duct Insulation Schedule			
Service	Location	R-Value	Description
Rectangular / Round - Supply, Return; Outside Air	Interior / Concealed	R=6.0 Minimum	External Duct Insulation - Wrap Owens-Corning Softtr Duct Wrap Insulation Type 75, 2.2" Thick, 3/4 lbs/CF Density with Type FRK Facing (Or Equal) First 15 Ft from Mechanical Equipment Shall Have an Internal Acoustical Liner, Certain-Teed (or Equal) "Ultralite" Heavy Graduated Density, 1" Thick. Liner Shall Meet ASTM G21 And G22 for Micro-Biological Treatment.
Diffuser Necks, Boots and Boxes for Grilles and Registers	Interior / Concealed	R=6.8 Minimum	External Duct Insulation - Wrap Owens-Corning Softtr Duct Wrap Insulation Type 75, 2.2" Thick, 3/4 lbs/CF Density with Type FRK Facing (Or Equal)
Flexible Ductwork	Interior / Concealed	R=6.0 Minimum	Insulated Flexible Air Duct with 2", 0.76 lb. Minimum Density Fiberglass Blanket and Fiberglass Scrim Reinforced Aluminized Polyester Film Vapor Barrier

Pipe Insulation Schedule			
Service	Location	R-Value	Description
Refrigeration Piping	Interior / Exterior	----	Suction Lines- ¾"Aeroflex AC, Liquid Lines ½" Aeroflex AC. Provide UV Protective Coating (Johns Manville Zeston or equal, White, 0.8mm thick, self sealing lap tape) on all elastomeric pipe insulation where exposed to sunlight.

Sections

1

M301

Indicates Similar to Noted View When Present

View Number on Sheet

Sheet on Which Detail Appears

CD1

6"ø

125

Mark (See Air Terminal Schedule)

Duct Connection Size

Air Flow (cfm)

Supply Air Duct Up

Return / Outdoor Air Duct Up

Exhaust Air Duct Up

Supply Air Duct Down

Return / Outdoor Air Duct Down

Exhaust Air Duct Down

Duct Centerline (Round Duct)

Damper in Ductwork, if Damper is Unlabeled, Assume Balancing Damper, Manual (B)

B = Balancing Damper, Manual

2-P = 2-Position Damper, Motorized Actuator

M = Full Modulating Damper, Motorized Actuator

F = Fire Damper

FS = Combination Fire / Smoke Damper

S = Duct-Mounted Smoke Detector. Provided, installed, and wired to the FACP by the Electrical Contractor.

Any Dampers missing a label are to be Manual Balancing Dampers.

Ceiling Diffuser with Flexible Duct Connection and 4-Way Throw Direction Arrows, if Throw Indication Arrows Are Not Present, Assume 4-Way Throw

Direction of Air Flow

Door Undercut (3/4" Unless Otherwise Indicated)

Mitered Rectangular Duct Elbow with Turning Vanes (Provide Turning Vanes in All Rectangular Supply Ductwork Even if Vanes Are Not Indicated, Turning Vanes Not Required in Return Air, Outdoor Air, And Exhaust Air Ducts Unless Indicated)

Rectangular Duct with Dimensions

Round Duct with Dimensions

Thermostat - Wall Mounted with Unit Designation and Mounting Height to Bottom of Thermostat (Mounting Height 48" A.F.F. Unless Noted Otherwise on Plans). Confirm Location(s) with Owner(s) Prior to Installation. Coordinate Installation with Electrical Contractor.

Thermostat in Lockbox

Humidistat - Wall Mounted with Unit Designation and Mounting Height to Bottom of Thermostat (Mounting Height 48" A.F.F. Unless Noted Otherwise on Plans). Confirm Location(s) with Owner(s) Prior to Installation. Coordinate Installation with Electrical Contractor.

Remote Temperature Sensor

Thermostat Remote Display

Carbon Dioxide Sensor

Condensate Drain Piping (CD)

Relocate Existing

Connection - New/Existing

Bipolar Ionization Notes

Principle of operation

Aerotron internally regulated (IR) ionization generators by Bioclimatic are designed specifically for duct or plenum mounting. Generators are normally installed in the return air side of an air handling unit following the final filter or alternatively in the supply plenum or duct work. Maximum air velocity for efficient system operation is 1000 fpm. Optimum air velocity across ionization tubes is 400 to 600 fpm.

1. Provide Aerotron "IR" series generators by Bioclimatic at each air handling unit as indicated on plans.

2. Provide the Bioclimatic representative with ductwork sizes and air volumes of each air handling unit so that systems may be sized properly.

3. Installation shall not deviate from manufacturer's instructions.

4. The mechanical contractor shall instruct the maintenance department on the location, care, and maintenance of the systems. I&O manuals shall be provided to the owner.

5. Coordinate electrical connections with electrical contractor.

Sequences of Operation

Exhaust fans:

Exhaust fans in toilet rooms shall be controlled by light switches.

HVAC: (RTUs)

Air conditioning units shall have room thermostat furnished by unit manufacturer and shall control heating and cooling in sequence with automatic switchover as required maintaining room temperature. A fan switch shall allow blower fan to run continuously or cycle.

Economizer cycle:

Air conditioning units shall include a full outdoor air enthalpy controlled economizer cycle. When the outdoor air is suitable for free cooling, the outdoor air damper shall modulate to maintain a mixed air temperature entering the air handling unit between 50-55° F. When the outdoor air is not suitable for free cooling, the first stage of the cooling compressor is turned on and the dampers are set to minimum for occupancy requirements (V_{av} per DCV.)

Dehumidification: (RTU)

Air conditioning unit shall be controlled by both temperature and humidity controls. Upon a rise in humidity, the humidistat shall initiate the dehumidification protocol provided by the vendor's hot gas reheat sequence.

Demand ventilation (CO₂):

Outdoor air concentrations for air conditioning units shall be controlled by a demand controlled ventilation system design. The CO₂ reading shall be compared to the CO₂ set point at the economizer controller module. If the reading is below the CO₂ set point, the ahu shall maintain the base ventilation rate. If the reading is above the set point (adj.), the outdoor air damper actuator shall modulate the damper open, up to the maximum outdoor air listed in the air handler schedule, utilizing a proportional-integral (pi) loop to reduce CO₂ concentration in the space. CO₂ levels are at or below 400 ppm, the outdoor air damper shall modulate to maintain the base ventilation rate (minimum outdoor air in the air handler schedule.) The economizer mode shall override the demand controlled ventilation algorithm.

Mechanical Project Notes

1. All mechanical work shall be done in accordance with all state and local laws and ordinances and in a manner satisfactory to the authority having jurisdiction. It shall be the responsibility of the Mechanical contractor to obtain all required permits, inspections and pay all applicable fees.

2. The mechanical contractor shall coordinate the routing of ductwork with other trades and ensure there is available space for all involved occupations before fabrication of ductwork begins. Ductwork sizes noted on mechanical plans are net clear inside dimensions.

3. The mechanical contractor shall not pass ductwork, piping, or place mechanical equipment directly over any electrical panels or electrical equipment. Coordinate with the electrical contractor to maintain clearances as required by codes.

4. Fire dampers are required where ductwork penetrates a one or more hour fire resistance rated assembly. [International Mechanical Code section 607 and International Building code 716.5]. Fire dampers may be omitted in 1-hour rated fire partitions where the duct penetrating the wall is not larger than 100 in², the duct does not terminate at a wall register, steel duct material is at least 0.0217 in. Thick, and the duct is located above a ceiling [International Building Code 716.5.4 and International Mechanical Code 607.5.3]. Fire dampers are also required where ducts pass through fire rated floor assemblies. Coordinate placement of all fire dampers with rated assemblies indicated on the architectural plans.

5. Coordinate the location of all ceiling mounted air terminals with architectural reflected ceiling plans.

6. The mechanical contractor shall furnish all labor, materials, equipment, services and incidentals required for a complete and operating facility. All mechanical equipment shall be provided complete with electrical starter, protective devices, and interlocks required for complete operable system.

8. Mechanical equipment placement shall allow for full service/maintenance as recommended by the equipment manufacturer. Color and finish of air terminals, louvers, and wall caps shall be coordinated with the architect.

10. The mechanical contractor is responsible for the testing, adjusting and balancing of all air systems.

11. All ductwork shall be connected to mechanical equipment with flexible U.L. listed connectors.

12. Outdoor air intakes shall not be located within 10'-0" of exhaust/relief louvers, wall caps, plumbing vents, or roof caps.

13. Units with air flows above 2,000 cfm must have a duct mounted smoke detector mounted in the supply duct downstream of all filters [2002 NFPA 90a 6.4.2.1]. Smoke detectors are also required in the return air stream prior to any exhausting from the building or mixing with outdoor air unless all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the international fire code [International Mechanical Code 606.2.1 and exception]. These smoke detectors must be wired to a fire alarm system when one is provided in a constantly attended location for supervisory signals [International Mechanical Code 606.4.1 and 2002 NFPA 90a 6.4.1.4]. Local ordinances may have more stringent requirements. Coordinate with electrical contractor. See electrical drawings for locations.

14. Insulating materials shall have a flame spread index not more than 25 and a smoke-developed index not exceeding 450 in accordance with ASTM E 84.

15. The mechanical contractor shall provide access panels in non-lay-in type ceiling (example gypsum ceilings) for all mechanical valves and dampers.

16. Where ductwork is visible through registers and grilles, the mechanical contractor shall prime and paint the interior of the ductwork black.

17. Furnish mechanical as-built drawings as well as Operations & Maintenance manuals for all mechanical systems to the owner within 90 days of system acceptance by the authority having jurisdiction.

HVAC Submittals

Submittals are required for all equipment specified on schedule sheet. The mechanical contractor shall provide the HVAC equipment submittals with an electrical summary sheet for use by the electrical engineer. The sheet shall indicate voltage, phase, MCA, and MOCOP for all HVAC equipment submitted. Electrical values that conflict with information provided in the HVAC equipment submittals is sole responsibility of the mechanical contractor.

Design Conditions	
Outdoor	
Design Data Location	Fort Oglethorpe, GA
Heating db (99.6%)	19.6
Cooling db (0.4%)	95.0
Mean Coincident wb (0.4%)	74.5
Weather Station	Chattanooga AP, TN, USA (WMO:723240)
Current Energy Code	2015 IECC
Climate Zone	4A
Indoor	
Heating db	70
Cooling db	74
Cooling Relative Humidity	55% (Maximum)
db: Dry Bulb °F wb: Wet Bulb °F Note: Outdoor conditions based upon ASHRAE Climatic Design Conditions 2017.	

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**Fort Oglethorpe
Courts Renovation**
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Mechanical Schedules & Notes

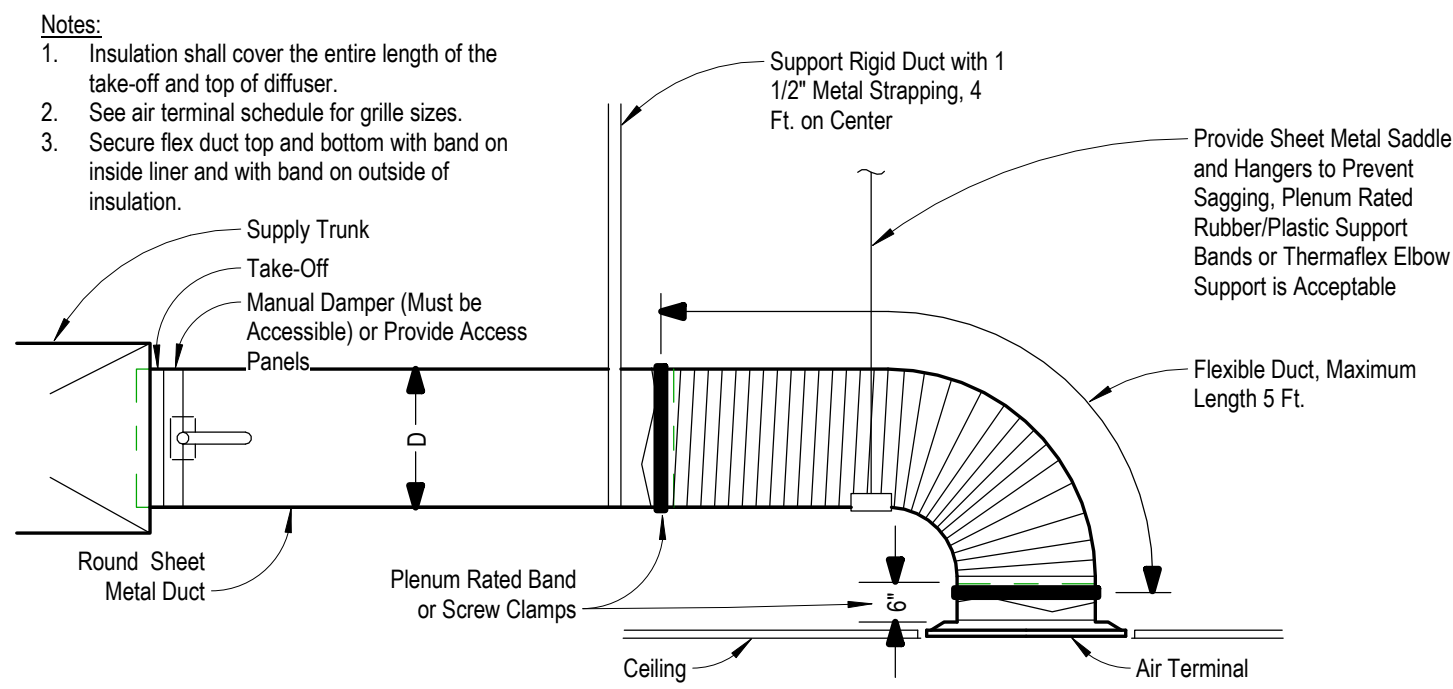
MA & A

March Adams & Associates

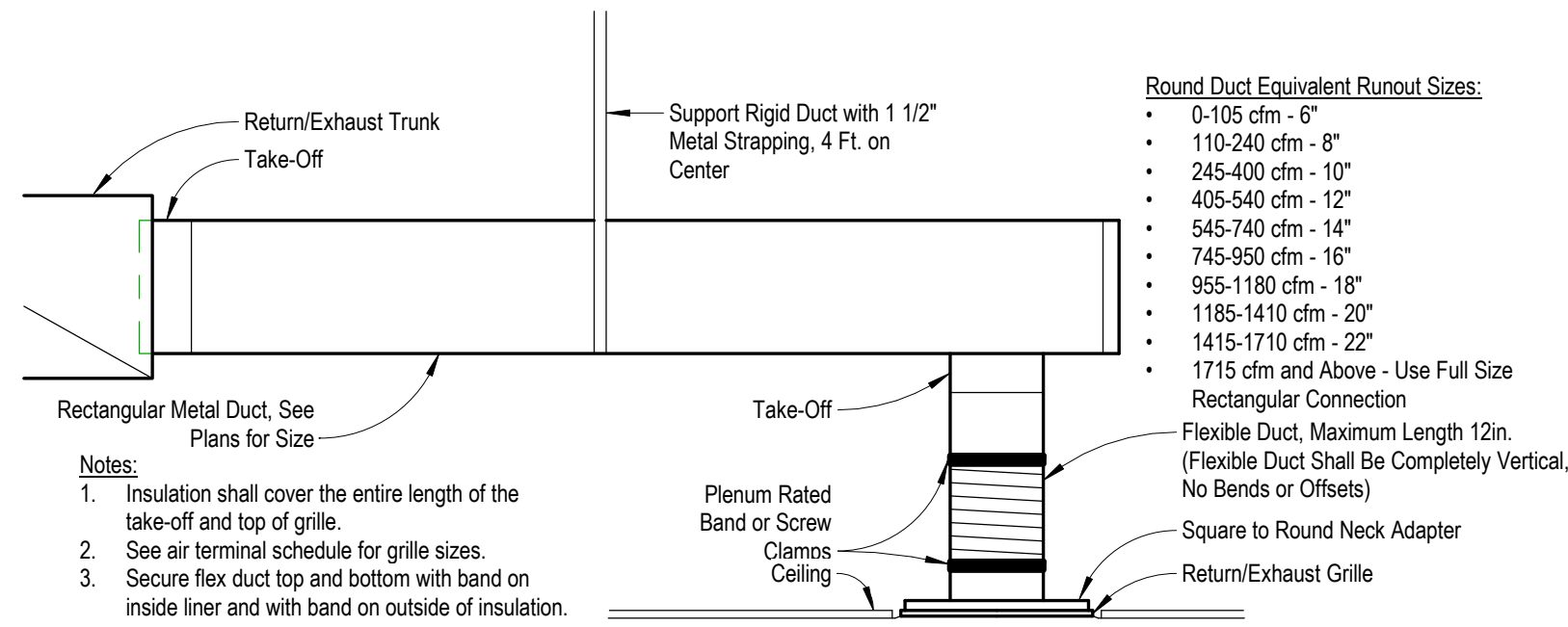
Consulting Engineers

310 Dodds Avenue
P.O. Box 3689
Chattanooga, TN 37404
(423) 698-6675
MAA # 25141

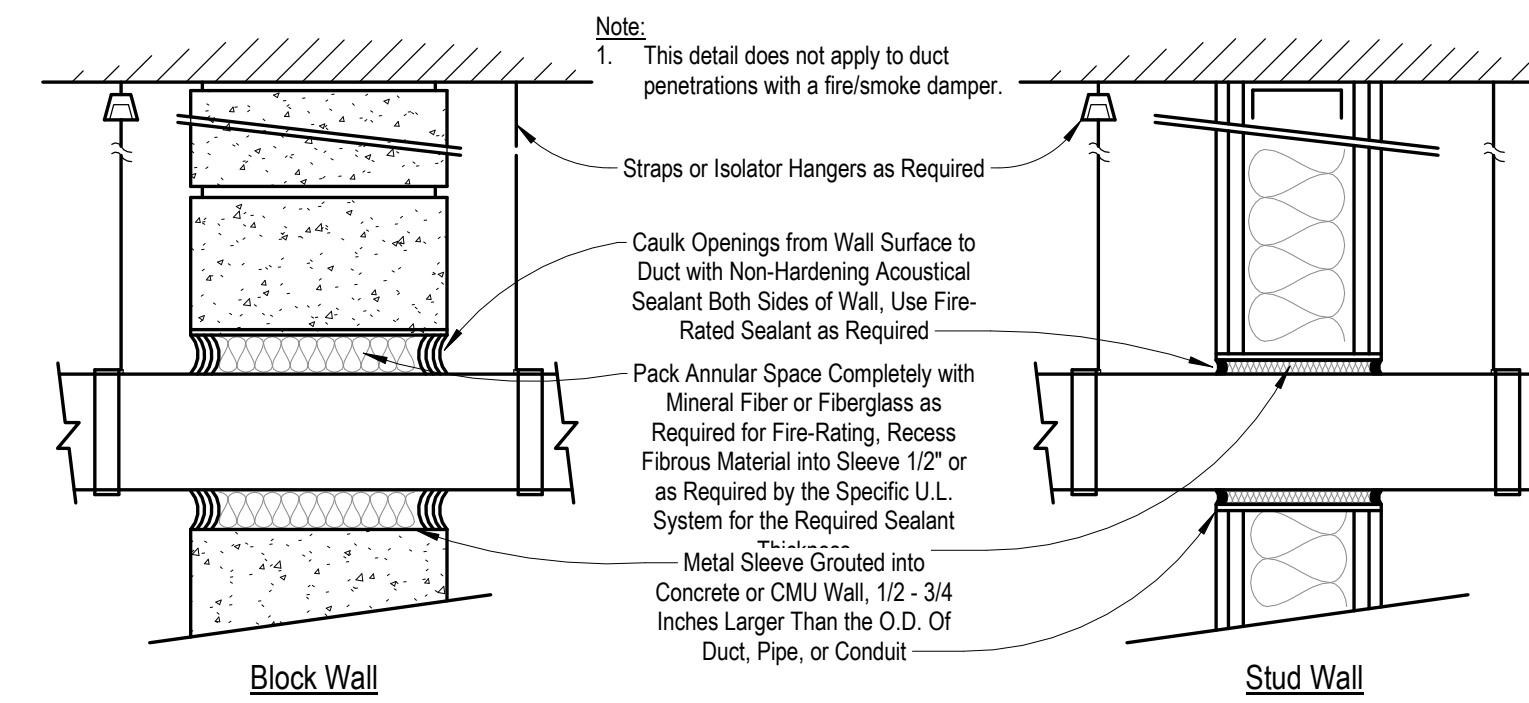
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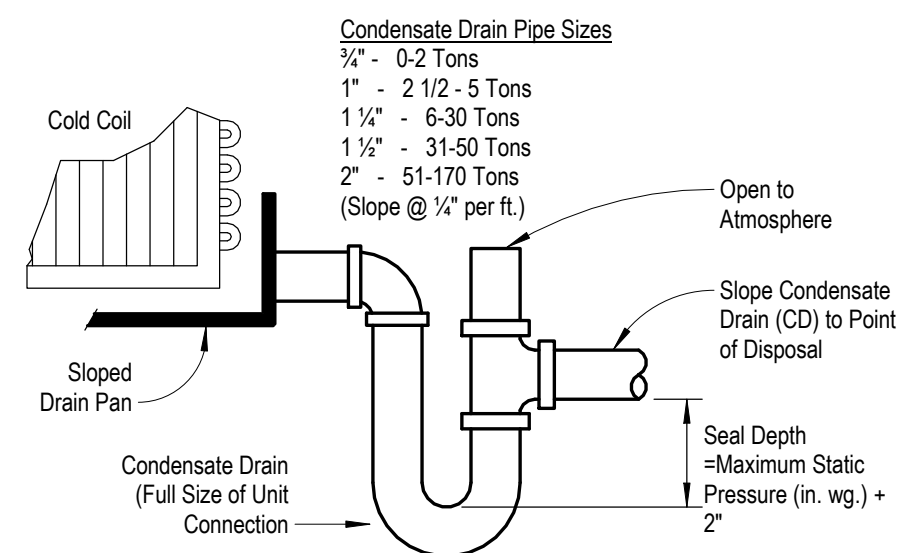
1 Duct Take-Off - Supply
 NTS



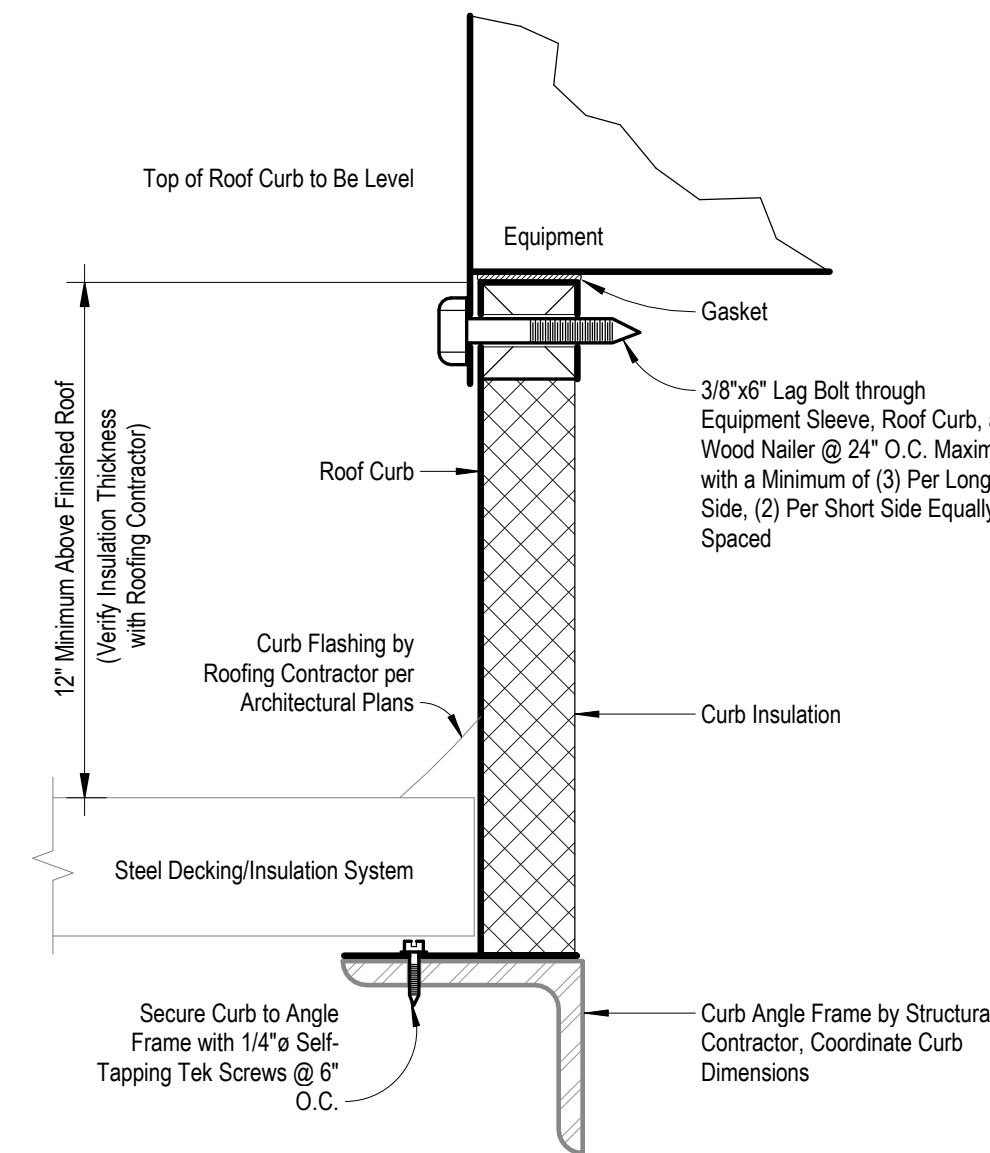
2 Duct Take-Off - Return/Exhaust
 NTS



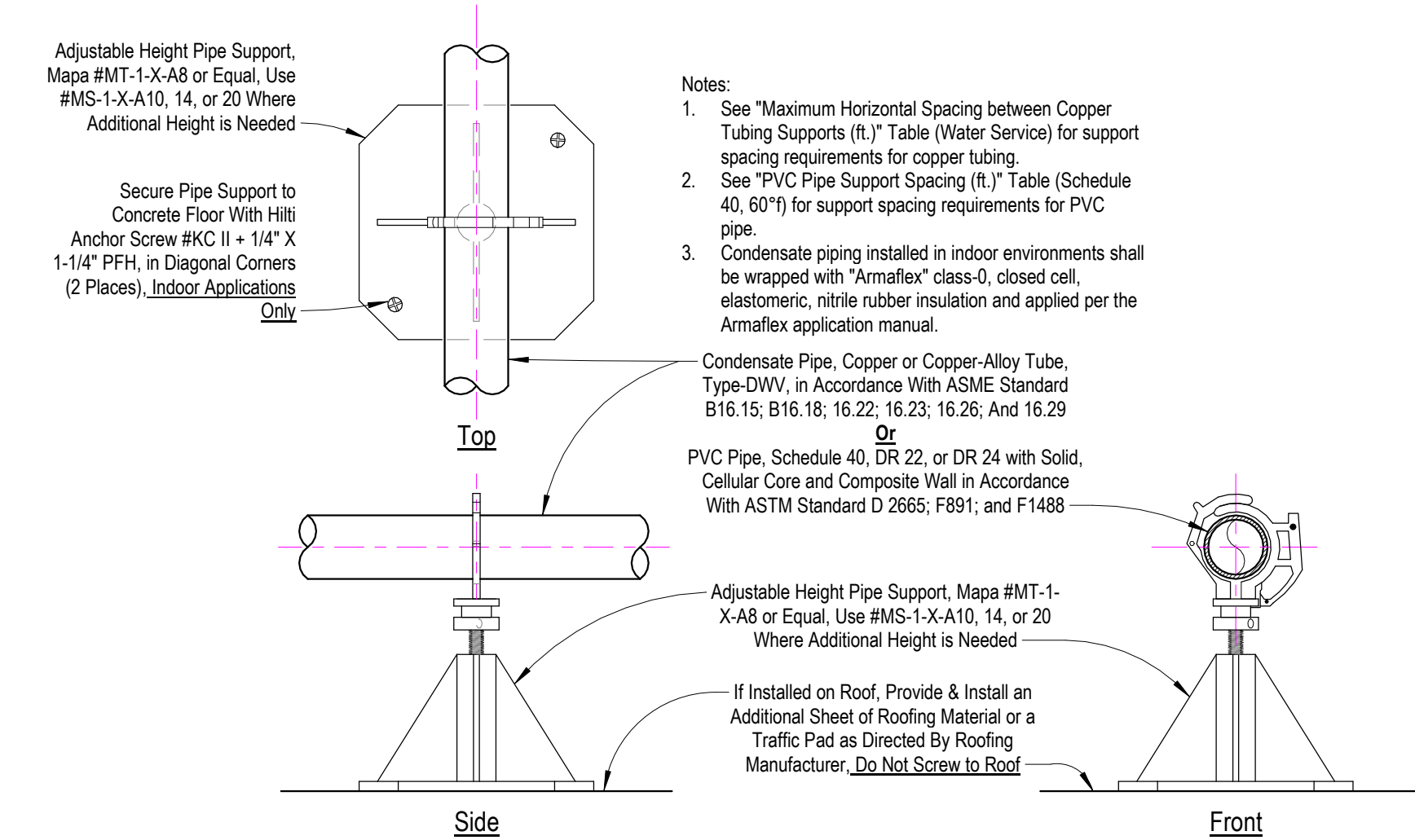
3 Acoustical Duct Wall Penetration
 NTS



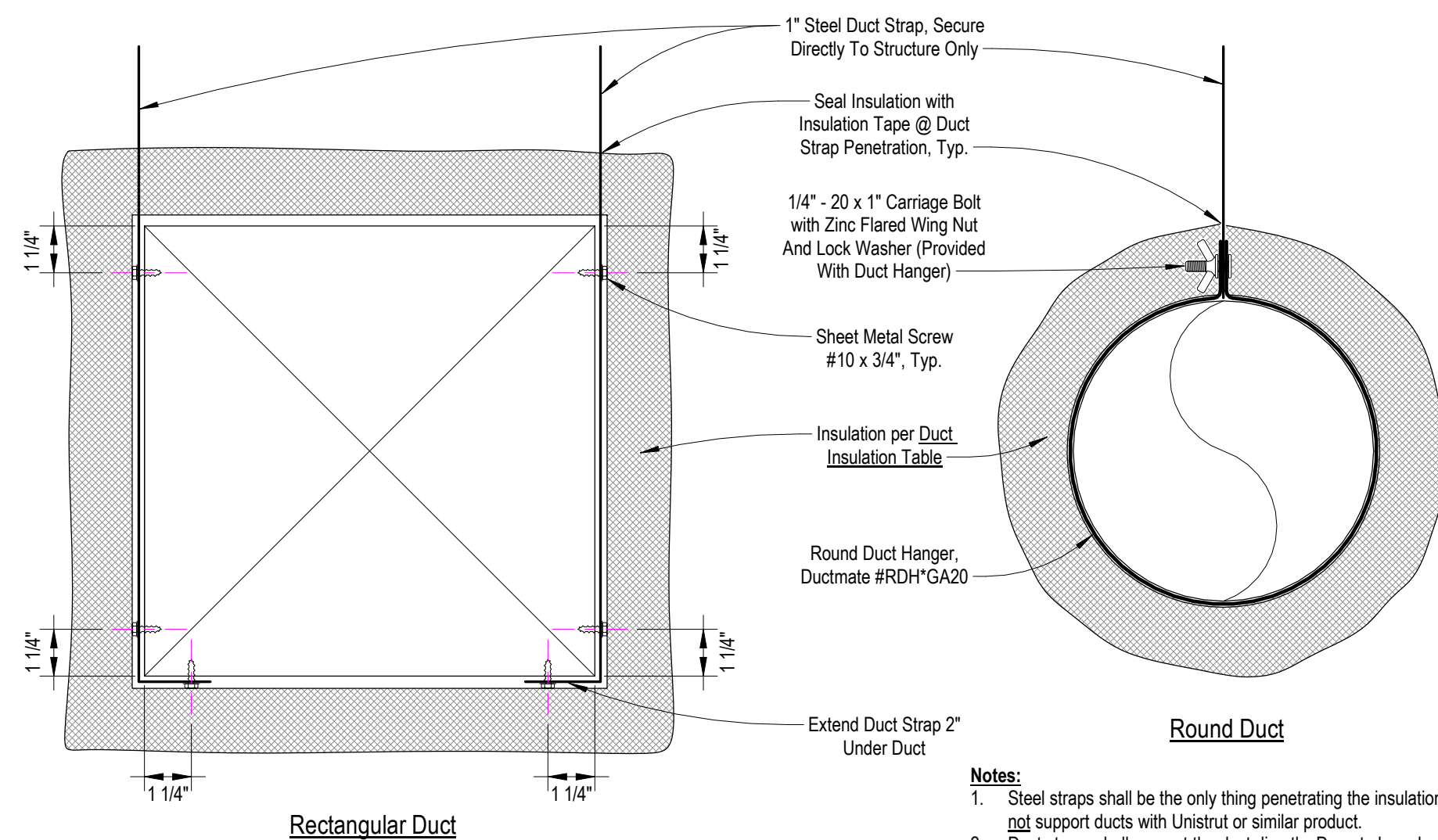
4 Coil Condensate Drain Piping
 NTS



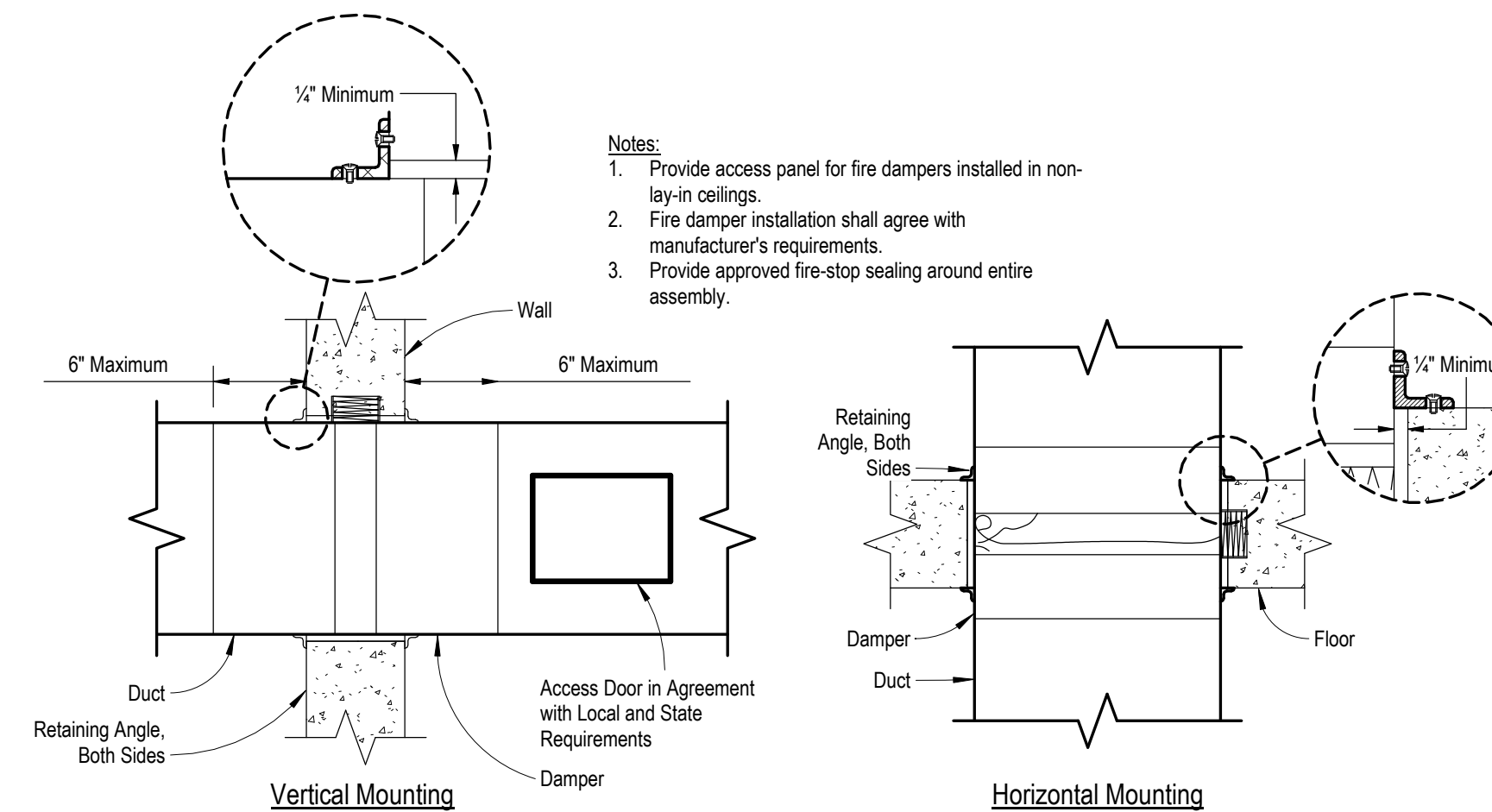
5 Roof Equipment Securement
 NTS



6 Condensate Piping Support
 NTS



7 Duct Hangers
 NTS



8 Fire Damper
 NTS

PART 1 GENERAL

1.0 DESCRIPTION

- A. GENERAL: THE CONTROL SYSTEM SHALL CONSIST OF A HIGH-SPEED, PEER-TO-PEER, BACNET TESTING LABS LISTED NETWORK OF DDC CONTROLLERS, ALL OF THE SAME MANUFACTURER, RESIDING AND COMMUNICATING ON A BACNET IP NETWORK.
- B. EACH MECHANICAL SYSTEM, BUILDING FLOOR PLAN, CONTROL DEVICE, AND/OR ENERGY METER WILL BE DEPICTED BY POINT-AND-CLICK REAL-TIME DYNAMIC GRAPHICS AS WELL AS STANDARD INFORMATION TREE FORMAT.

1.1 APPROVED CONTROL SYSTEM CONTRACTORS AND MANUFACTURERS

- A. CONTACT BELOW FOR THE CONTROL SYSTEM CONTRACTOR FOR THIS PROJECT:

CONTRACTOR: ELECTRONIC CONTROLS LLC (ECI)
CONTROLS MANUFACTURER: DELTA CONTROLS
CONTACT: TIM BUCKNER VIA EMAIL TBUCKNER@ECI-CONTROLS.COM

1.2 DESCRIPTION

- A. GENERAL: THE CONTROL SYSTEM SHALL CONSIST OF A HIGH-SPEED, PEER-TO-PEER, BACNET LISTED NETWORK OF DDC CONTROLLERS, ALL THE SAME FAMILY AND MANUFACTURER, RESIDING AND COMMUNICATING ON A BACNET IP NETWORK.
- B. EACH MECHANICAL SYSTEM, BUILDING FLOOR PLAN, CONTROL DEVICE, WILL BE DEPICTED BY POINT-AND-CLICK REAL-TIME DYNAMIC GRAPHICS AS WELL AS STANDARD INFO TREE FORMAT.
- C. THE SYSTEM WILL INCLUDE FULLY FUNCTIONAL ACCESS CONTROL SOFTWARE THAT SUPPORTS FUTURE EXPANSION FOR ACCESS AND LIGHTING CONTROLS.

1.3 SUBMITTALS

- A. PRODUCT DATA AND SHOP DRAWINGS: CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND OTHER SUBMITTALS ON ALL HARDWARE, AND SOFTWARE IN PDF FORMAT.

1.4 WARRANTY

- A. LABOR AND MATERIALS FOR THE CONTROL SYSTEM SPECIFIED SHALL BE WARRANTED FREE FROM DEFECTS FOR A PERIOD OF 12 MONTHS AFTER FINAL COMPLETION AND ACCEPTANCE. CONTROL SYSTEM FAILURES DURING THE WARRANTY PERIOD SHALL BE ADJUSTED, REPAIRED, OR REPLACED AT NO ADDITIONAL COST OR REDUCTION IN SERVICE TO THE OWNER.

PRODUCTS

1.5 MATERIALS

- A. ALL PRODUCTS USED IN THIS PROJECT INSTALLATION SHALL BE NEW, CURRENTLY UNDER MANUFACTURE, AND APPLIED IN SIMILAR INSTALLATIONS FOR A MINIMUM OF TWO YEARS.

1.6 COMMUNICATION

- A. ALL CONTROL PRODUCTS PROVIDED FOR THIS PROJECT SHALL COMPRISE A BACNET INTERNETWORK.
- B. THE TIME CLOCKS IN ALL APPLICABLE CONTROLLERS SHALL BE AUTOMATICALLY SYNCHRONIZED DAILY. THE SYSTEM SHALL AUTOMATICALLY UPDATE AND SYNCHRONIZE THE TIME ON ALL CONTROLLERS ON THE NETWORK BASED UPON THE SERVER TIME.
- C. THE NETWORK SHALL HAVE THE FOLLOWING MINIMUM CAPACITY FOR FUTURE EXPANSION:
1. EACH BUILDING CONTROLLER SHALL HAVE ROUTING CAPACITY FOR 89 CONTROLLERS.
 2. THE BUILDING CONTROLLER NETWORK SHALL HAVE CAPACITY FOR 1000 BUILDING CONTROLLERS.

1.7 CONTROLLER SOFTWARE

- A. FURNISH THE FOLLOWING APPLICATIONS SOFTWARE FOR BUILDING AND ENERGY MANAGEMENT. ALL SOFTWARE APPLICATIONS SHALL RESIDE AND OPERATE IN THE SYSTEM CONTROLLERS.
- B. ALARM REPORTING: THE OPERATOR SHALL BE ABLE TO DETERMINE THE ACTION TO BE TAKEN IN THE EVENT OF AN ALARM.

1.8 ADVANCED APPLICATION CONTROLLERS

- A. GENERAL: PROVIDE AN ADEQUATE NUMBER OF BACNET® ADVANCED APPLICATION CONTROLLERS.
- B. MEMORY: THE ADVANCED APPLICATION CONTROLLER SHALL UTILIZE NON-VOLATILE FLASH MEMORY TO MAINTAIN ITS OPERATING SYSTEM AND BACKUP ALL OPERATOR ENTERED CHANGES TO SETPOINTS, SCHEDULES, AND COMMANDS.

1.9 APPLICATION SPECIFIC CONTROLLERS

- A. GENERAL: PROVIDE BACNET® APPLICATION SPECIFIC CONTROLLERS (ASCS) AS REQUIRED TO EXECUTE THE SEQUENCE OF OPERATIONS.
1. EACH ASC SHALL BE CAPABLE OF STANDALONE OPERATION AND SHALL CONTINUE TO PROVIDE CONTROL FUNCTIONS WITHOUT BEING CONNECTED TO THE NETWORK.
- B. INPUT/OUTPUT: ASC SHALL SUPPORT AS A MINIMUM, DIRECTLY CONNECTED, A COMBINATION OF ANALOG OUTPUTS AND BINARY OUTPUTS AND UNIVERSAL SOFTWARE SELECTABLE ANALOG OR DIGITAL INPUTS. ASC INPUTS SHALL SUPPORT 0-5 VDC-VOLTAGE, 4-20MA-CURRENT, THERMISTOR-RESISTANCE AND DRY CONTACTS. ASC OUTPUTS SHALL SUPPORT 0-10 VDC-VOLTAGE, DIGITAL TRIAC RATED AT 0.5 AMPS AT 24 VAC

1.10 AUXILIARY CONTROL DEVICES

- A. TEMPERATURE SENSORS.
1. TEMPERATURE SENSORS SHALL BE THERMISTORS.
 2. SPACE SENSORS SHALL BE EQUIPPED WITH THE FOLLOWING:
 - A) PROGRAMMABLE BUTTONS FOR SETPOINT ADJUSTMENT AND OVERRIDE
 - B) 3-VALUE, 96-SEGMENT LCD DISPLAY
- B. HUMIDITY SENSORS.
1. DUCT AND ROOM SENSORS SHALL HAVE A SENSING RANGE OF 20% TO 80%.

1.11 WIRING AND RACEWAYS

- A. GENERAL: PROVIDE COPPER WIRING, PLENUM CABLE, AND RACEWAYS AS SPECIFIED IN THE APPLICABLE SECTIONS OF DIVISION 16.

PART 2 EXECUTION

2.0 COORDINATION

- A. TEST AND BALANCE
1. THE CONTRACTOR SHALL FURNISH ALL TOOLS NECESSARY TO INTERFACE TO THE CONTROL SYSTEM FOR TEST AND BALANCE PURPOSES
- B. LIFE SAFETY
1. DUCT SMOKE DETECTORS REQUIRED FOR AIR HANDLER SHUTDOWN ARE SUPPLIED AND INSTALLED UNDER DIVISION 16. THE DIVISION 16 CONTRACTOR SHALL INTERLOCK SMOKE DETECTORS TO AIR HANDLERS FOR SHUTDOWN.
 2. SMOKE/FIRE DAMPERS AND ACTUATORS REQUIRED FOR DUCT SMOKE ISOLATION ARE PROVIDED UNDER ANOTHER DIVISION 16 SECTION. CONTROL OF THESE DAMPERS SHALL BE BY DIVISION 16.

2.1 CONTROLLERS

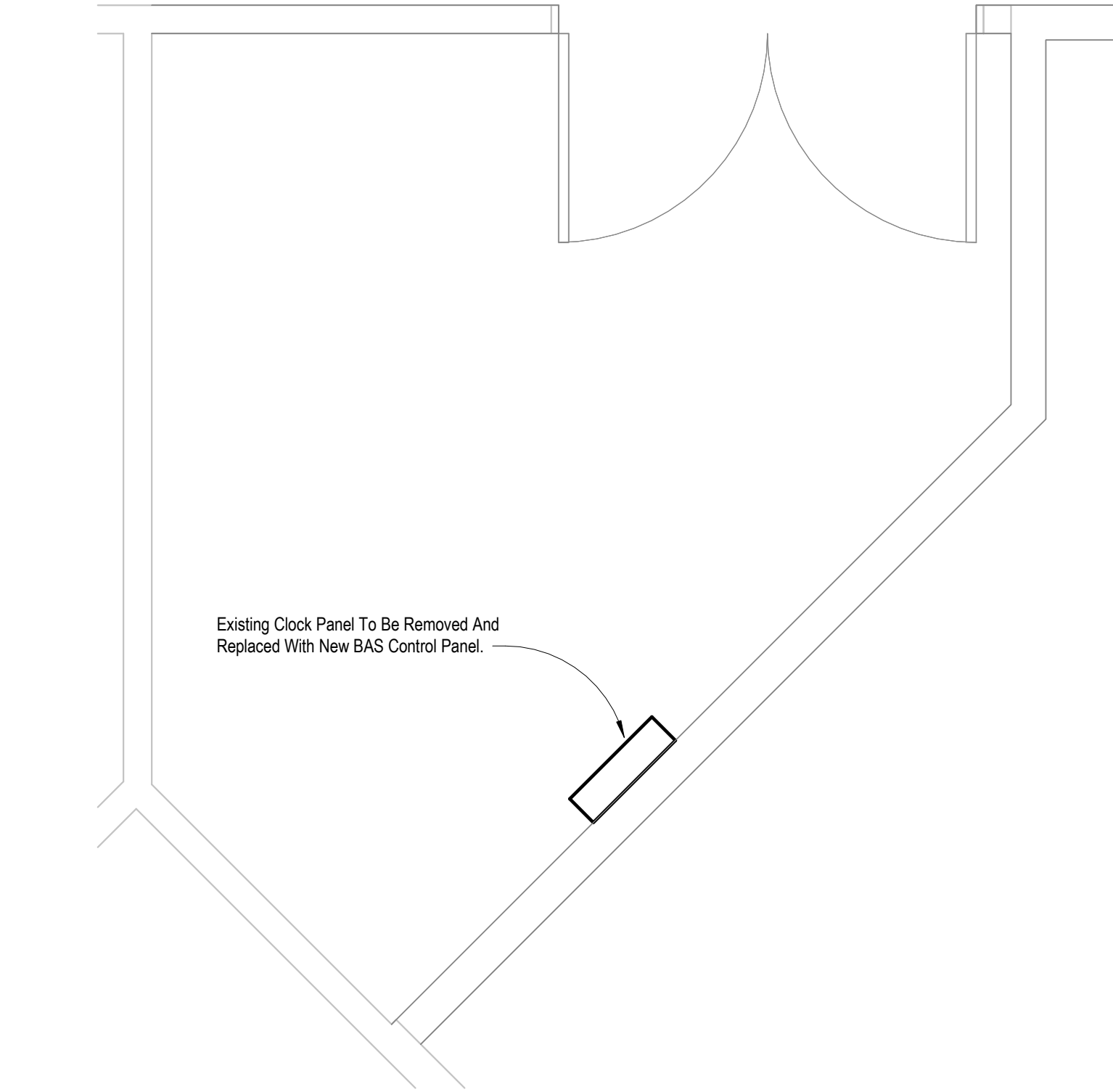
- A. PROVIDE A SEPARATE CONTROLLER FOR EACH RTU OR OTHER HVAC SYSTEM.
- B. BUILDING CONTROLLERS AND ADVANCED APPLICATION CONTROLLERS SHALL BE SELECTED TO PROVIDE A MINIMUM OF 15% SPARE I/O POINT/OBJECT CAPACITY FOR EACH POINT/OBJECT TYPE FOUND AT EACH LOCATION.

2.2 CONTROL SYSTEM CHECKOUT AND TESTING

- A. START-UP TESTING: ALL TESTING LISTED IN THIS ARTICLE SHALL BE PERFORMED BY THE CONTRACTOR AND SHALL MAKE UP PART OF THE NECESSARY VERIFICATION OF AN OPERATING CONTROL SYSTEM.

2.3 TRAINING

1. PROVIDE ONSITE TRAINING SESSIONS FOLLOWING BUILDING S TURNOVER.



1 Level 1 Court Wing HVAC - Callout 1
1/2" = 1'-0"



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Fort Oglethorpe
Courts Renovation

500 City Hall Drive
Fort Oglethorpe Georgia 30742

Revision Schedule

Rev. Number	Rev. Date	Revision Description
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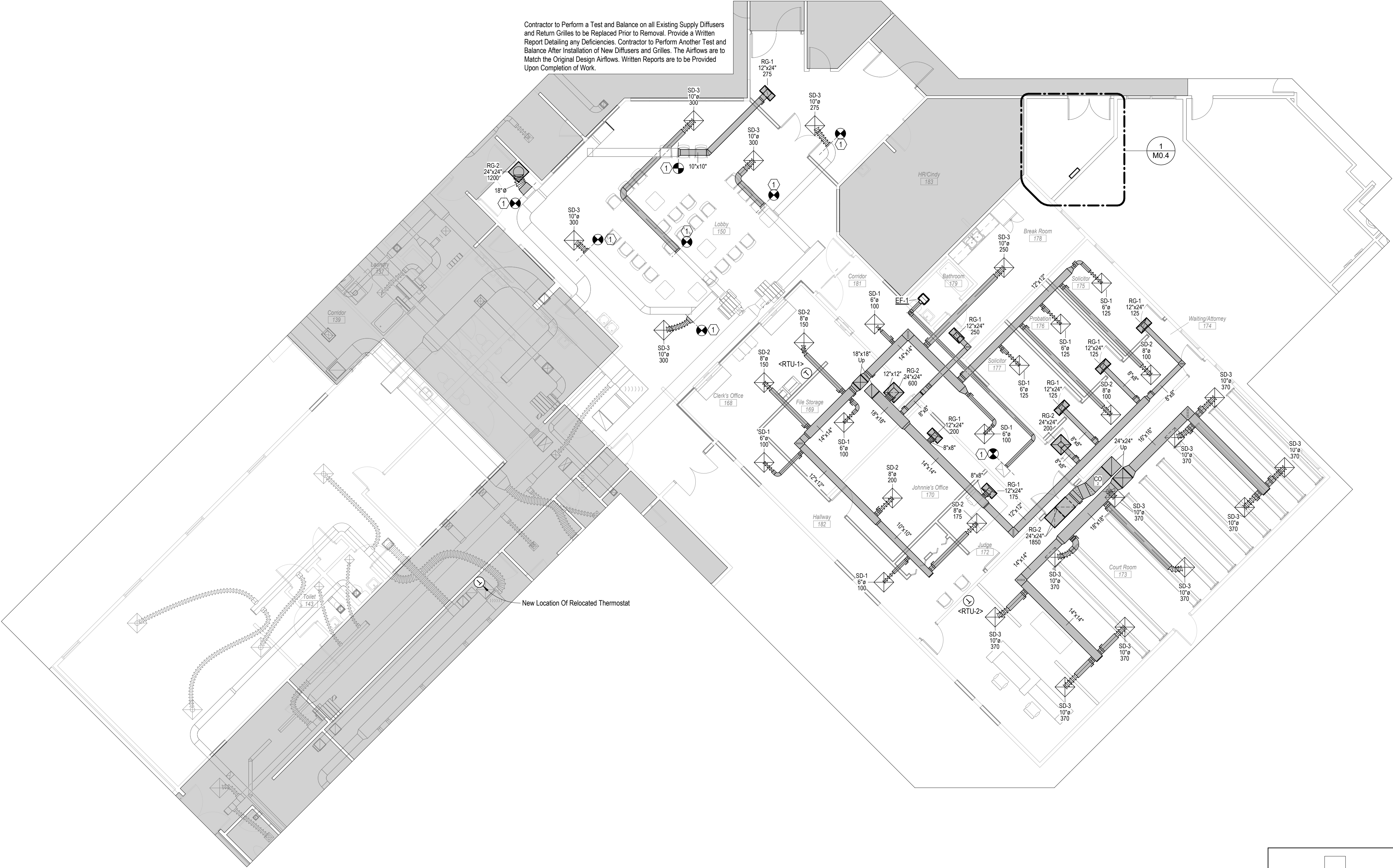
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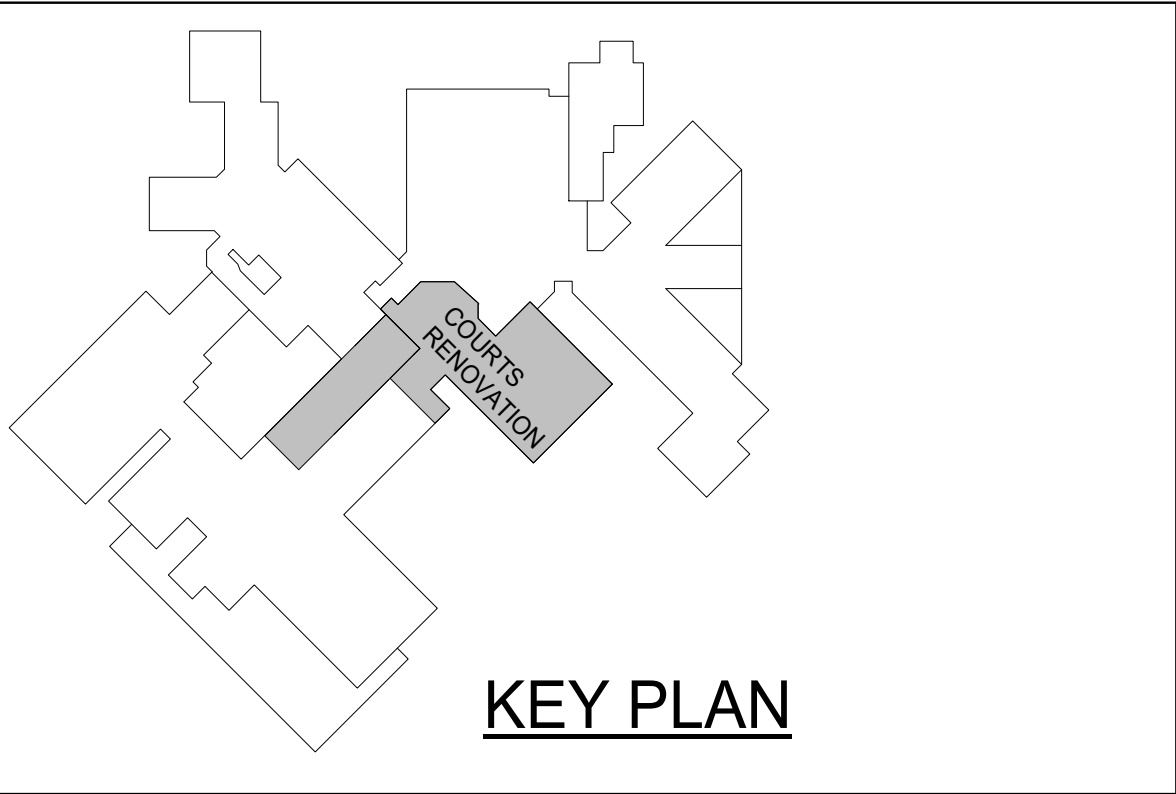
BAS Information

MA & A March
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P.O. Box 3689
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(423) 698-6675
MAA # 25141

M0.4



1 Level 1 Court Wing HVAC
1/8" = 1'-0"



Keynote Legend	
Key Value	Keynote Text
1	Tie New Duct Into Existing Duct

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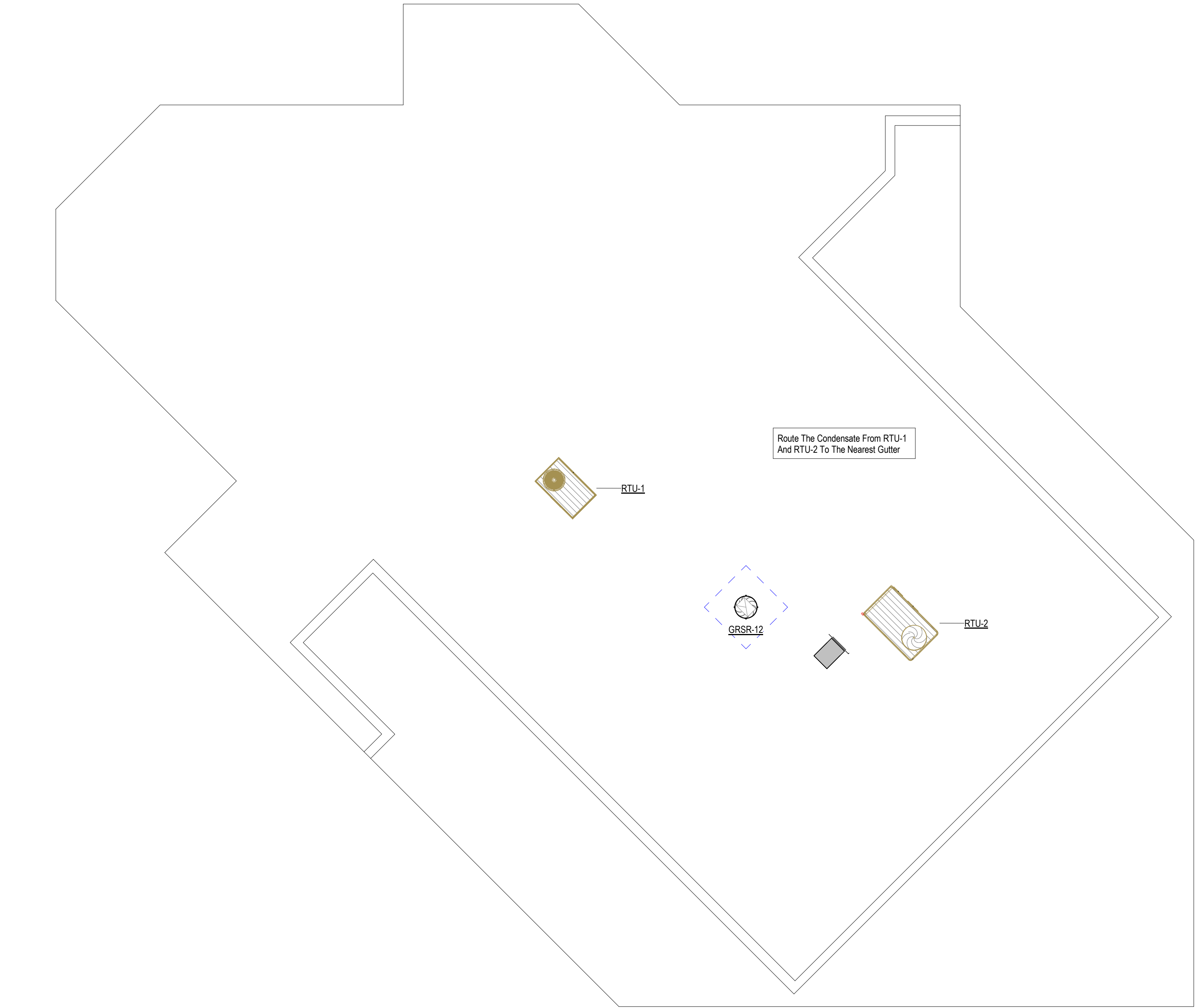
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Revision Schedule	
Rev. Number	Rev. Date
Revision Description	

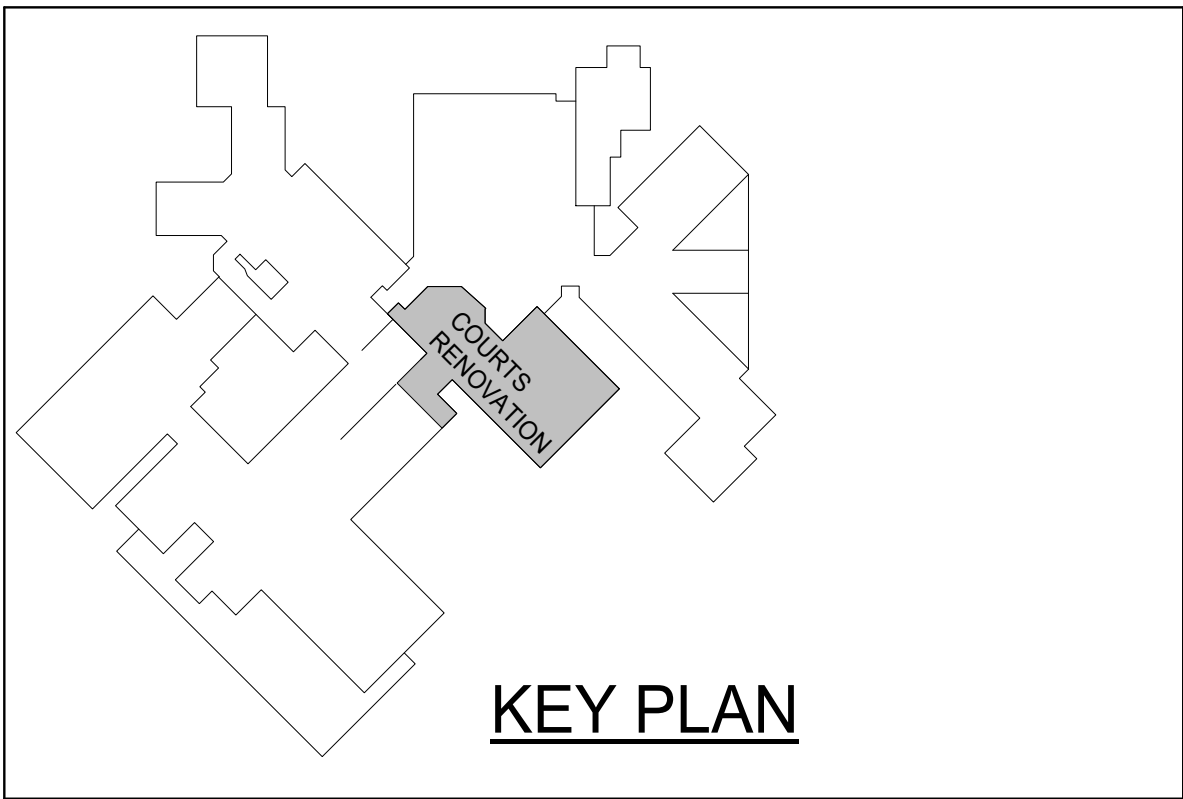
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New Construction HVAC Plans

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1 Roof HVAC Plan
1/8" = 1'-0"



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New Construction HVAC
Roof Plan



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Revision Schedule

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Demo HVAC Plans

M2.1

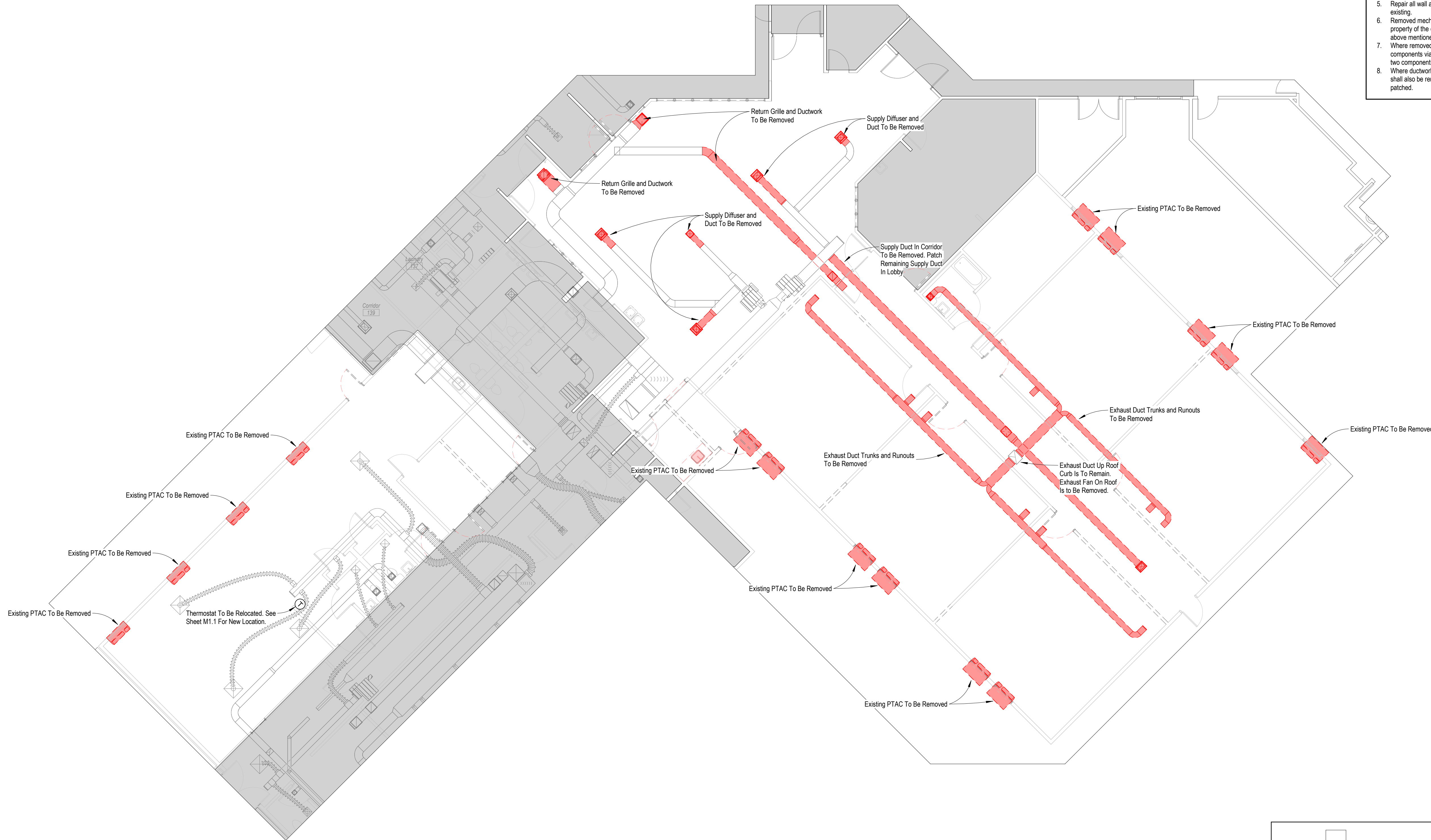
Demo Plan Legend

To Be Removed

To Remain

Mechanical Demolition Notes

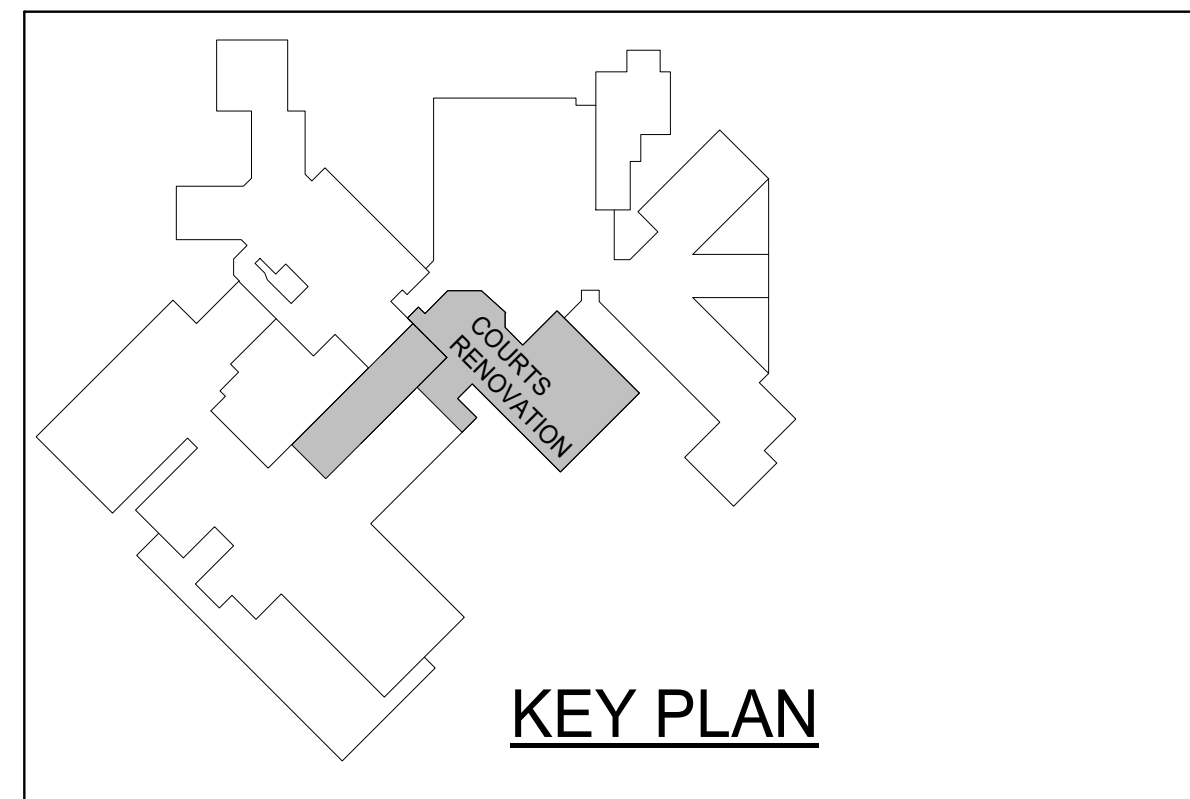
- All mechanical work shall be in accordance with state and local codes and the authority having jurisdiction.
- This drawing is created from the best available information. The mechanical contractor is responsible for verifying existing field conditions and reporting discrepancies to the mechanical engineer and owner prior to demolition.
- All penetrations through roof exposed by removal of mechanical equipment, ductwork, or piping shall be patched to create a flush finish. Roof patching shall be accomplished in a method approved by the roofing system manufacturer and owner.
- Where removal of mechanical equipment, ductwork, or piping damages floor surfaces, floors shall be patched to create a flush finish. Floor patching shall be accomplished in a method approved by the owner.
- Repair all wall areas damaged during mechanical demolition to match existing.
- Removed mechanical equipment, ductwork, piping, etc. remains the property of the owner. The owner the final word on disposal or reuse of above mentioned items.
- Where removed roof mounted equipment is connected to inside components via piping, all piping, supports, and insulation between the two components shall be removed.
- Where ductwork is removed, all associated insulation and hangers shall also be removed and any holes left in remaining ductwork is to be patched.



1

Level 1 Court Wing HVAC Demo Plan

1/8" = 1'-0"

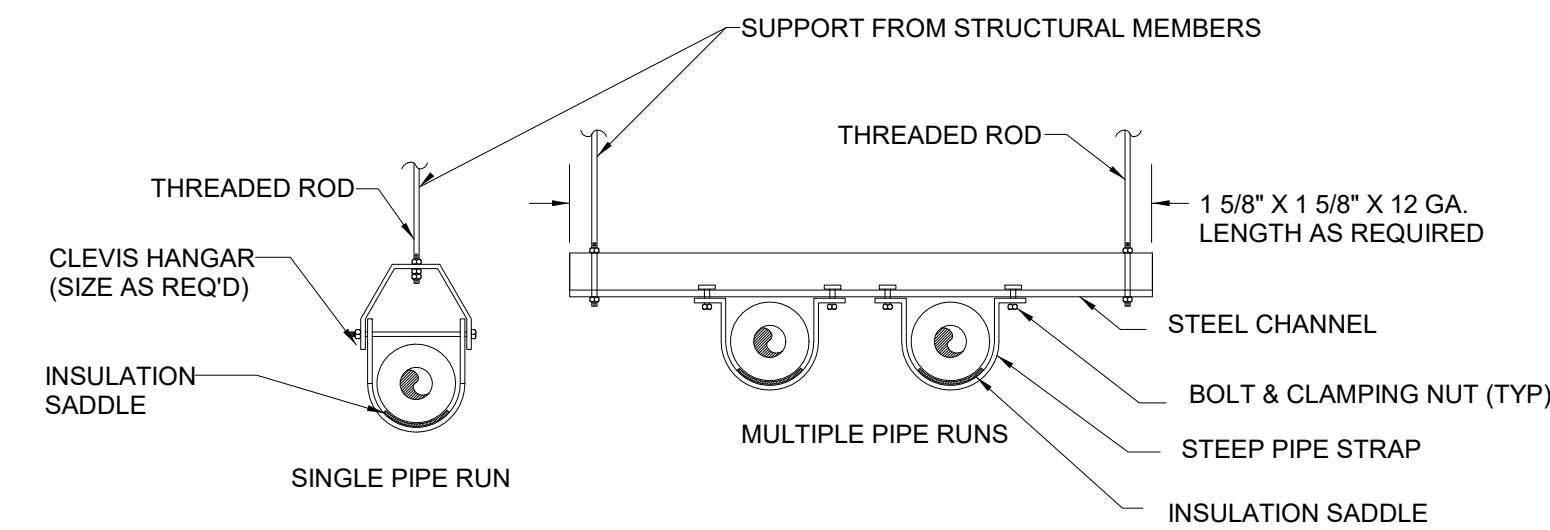


KEY PLAN

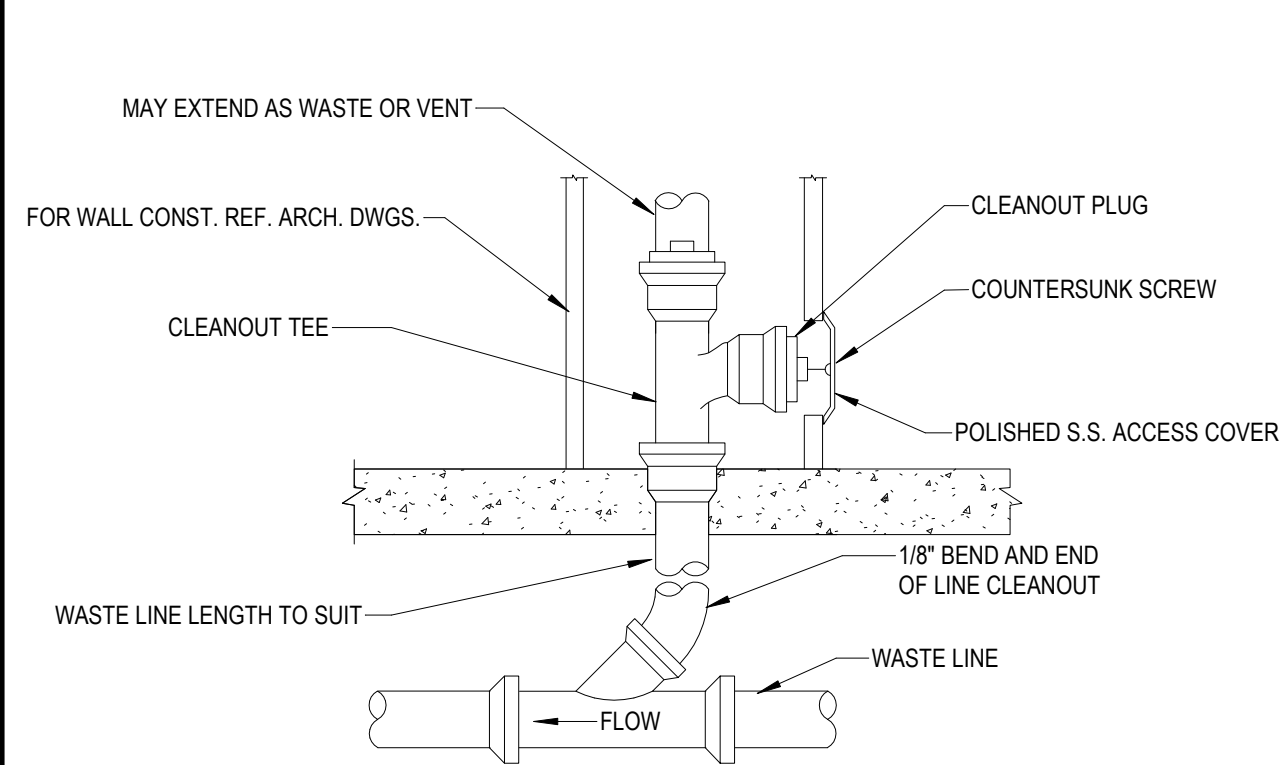
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Consulting Engineers MAA # 25141

PIPE INSULATION					
SERVICE	MATERIAL	THICKNESS	FIELD APPLIED JACKET	VAPOR RETARDER REQUIRED	FINISH
DOMESTIC COLD WATER	OWENS-CORNING "ONE PIECE" FIBERGLASS PIPE INSULATION WITH ASJ JACKET WITH SELF-SEALING LAP.	1/2" FOR PIPE SMALLER THAN 1 1/2" 1" FOR PIPE 1 1/2" OR LARGER	NONE	YES (FOSTER 30-35)	WHITE
DOMESTIC HOT WATER AND RECIRCULATED HOT WATER OPERATING TEMPERATURE: 61 TO 140 DEG. F	OWENS-CORNING "ONE PIECE" FIBERGLASS PIPE INSULATION WITH ASJ JACKET WITH SELF-SEALING LAP.	1" FOR PIPE SMALLER THAN 1 1/2" 1 1/2" FOR PIPE 1 1/2" OR LARGER	NONE	NONE	WHITE
SANITARY PIPE ABOVE GRADE, EXCLUDING CAST IRON. (SOUND INSUL.)	OWENS-CORNING "ONE PIECE" FIBERGLASS PIPE INSULATION WITH ASJ JACKET WITH SELF-SEALING LAP.	1"	NONE	NONE	WHITE
EXPOSED SANITARY DRAINS, DOMESTIC WATER SUPPLIES AND STOPS FOR ADA FIXTURES	"LAV-GUARD" AS MANUFACTURED BY TRUBRO UNLESS NOTED OTHERWISE		PVC P-TRAP AND SUPPLY COVERS	NONE	WHITE

WATER HAMMER ARRESTER SCHEDULE					
P.D.I. SYMBOL	MANUFACTURER	MODEL NO.	CONNECTION SIZE	FIXTURE UNIT RATING	REMARKS
"A"	ZURN	Z1700-100	3/4"	1-11	THREADED NIPPLE CONNECTION
"B"	ZURN	Z1700-200	1"	12-32	THREADED NIPPLE CONNECTION
"C"	ZURN	Z1700-300	1"	33-60	THREADED NIPPLE CONNECTION
RULE 1: THE PREFERRED PLACEMENT LOCATION IS AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES IN A BRANCH LESS THEN 20 FEET.					
RULE 2: IN LINES THAT EXCEED 20 FT. IN LENGTH, THE SUM OF THE FIXTURE UNIT RATINGS OF UNITS (X) & (Y) SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF BRANCH.					



PIPE HANGERS DETAIL
SCALE: NONE

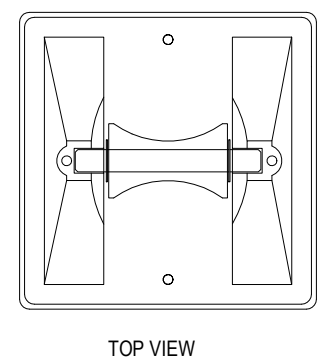


WALL CLEANOUT DETAIL
SCALE: NONE

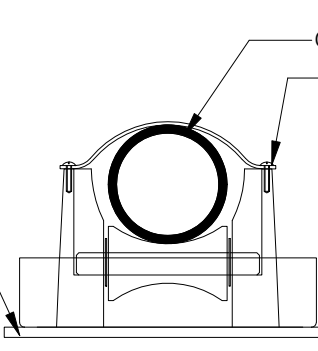
"MIRRO" PILLLOW BLOCK PIPESTAND MODEL NO. 3-R OR APPROVED EQUAL, PROVIDE GAS SUPPORTS AT 10'-0" MAX. ON CENTER & AT ALL BENDS. SEE IFGC FOR EXACT SPACING REQUIREMENTS.

NOTE: PROVIDE SUFFICIENT ROOM BETWEEN THE PIPE AND STRAP TO PROVIDE FOR FREE MOVEMENT OF THE PIPE WITHOUT BINDING.

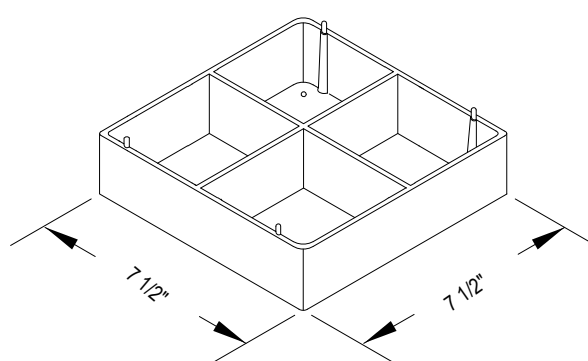
PROVIDE & INSTALL AN ADDITIONAL SHEET OF ROOFING MATERIAL OR A TRAFFIC PAD AS DIRECTED BY ROOFING MANUFACTURER



TOP VIEW

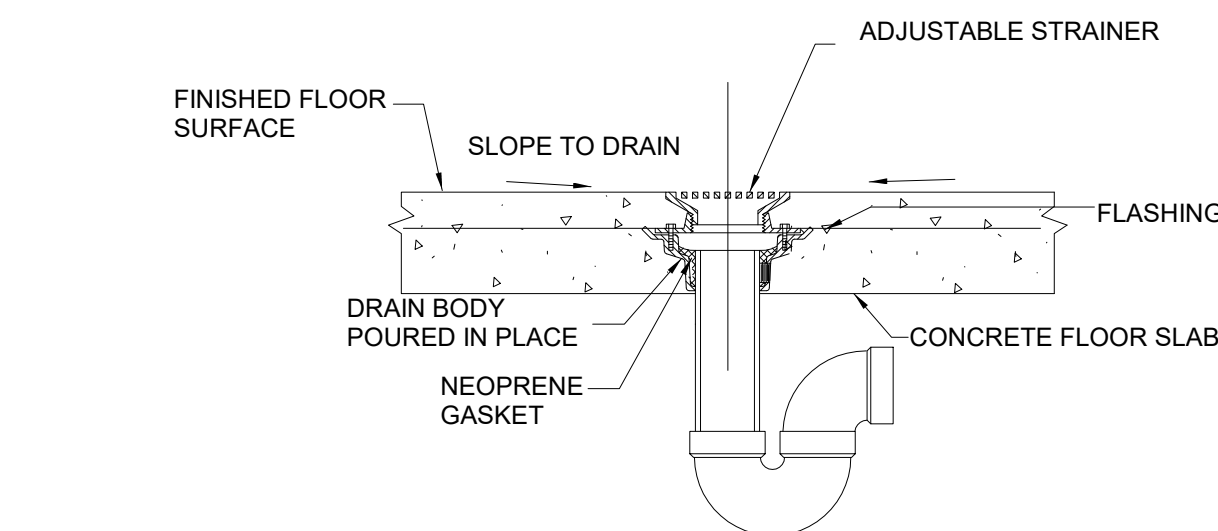


FRONT VIEW

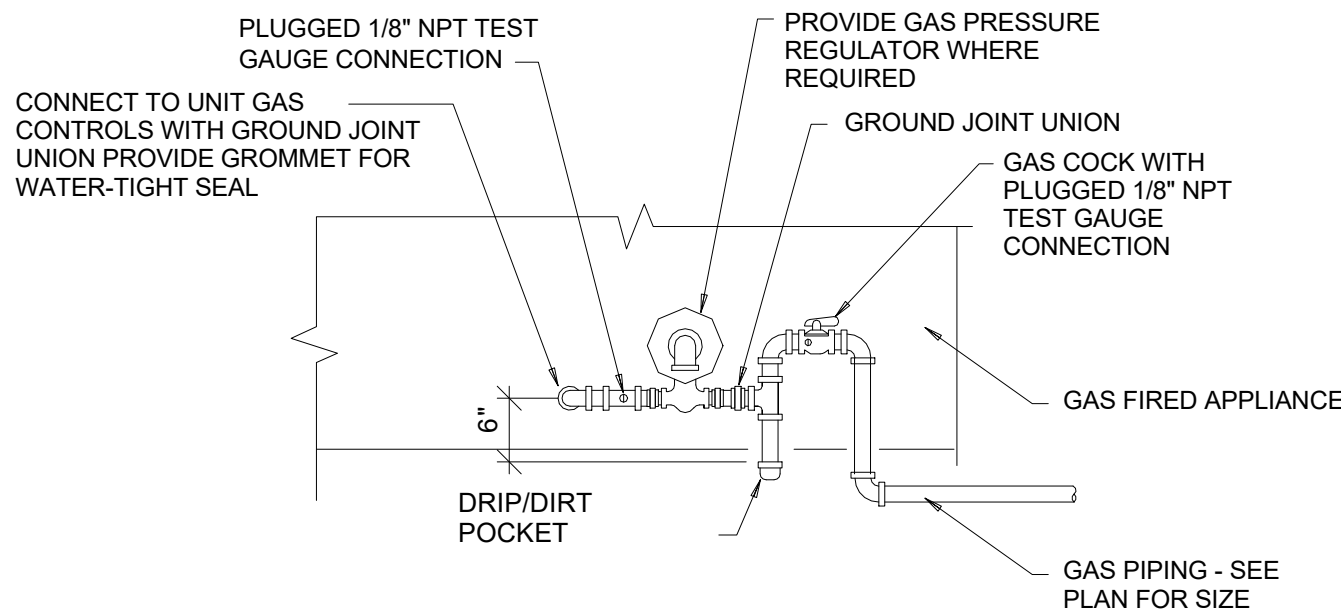


SIDE VIEW

GAS PIPING ROOF SUPPORT DETAIL
SCALE: NONE



FLOOR DRAIN INSTALLATION DETAIL
SCALE: NONE



CONTRACTOR SHALL DETERMINE THE DELIVERED PRESSURE AT THE SITE AND COMPARE WITH THE DESIGN PRESSURE OF THE PROPOSED SYSTEM. ADVISE DESIGNER IF RESIZING OF PIPES IS NECESSARY. PROVIDE REGULATORS IF REQUIRED.

TYPICAL GAS CONNECTION DETAIL
SCALE: NONE

PLUMBING FIXTURE SCHEDULE							
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONNECTIONS			
				CW	HW	WASTE	VENT
IMB	IPS CORPORATION	MB1AB	GLY GRAY™ WHITE POWDER COATED ICE MAKER OUTLET BOX, LOW LEAD, QTR TURN VALVE, 1/2" SWEAT CONNECTION.	1/2"			
S1	ELKAY	LR2521	LUSTERTONE 18 GA. STAINLESS STEEL 25" X 21-1/4" X 7-7/8" DROP-IN SINK WITH AVADO LKAV3031 SINGLE HOLE CHROME FINISH KITCHEN FAUCET WITH PULL-DOWN SPRAY AND FORWARD ONLY LEVER HANDLE, 1.8 GPM, ZURN Z8741-PC HEAVY DUTY BASKET STRAINER WITH CAST BRASS LOCK AND COUPLING NUT, Z8702-PC 1-1/2" CAST BRASS 17 GAUGE P-TRAP WITH CLEANOUT, AND Z8804-XL-LR-Q-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND CHROME PLATED COPPER TUBE SUPPLY LINES.	1/2"	1/2"	1 1/2"	1 1/2"

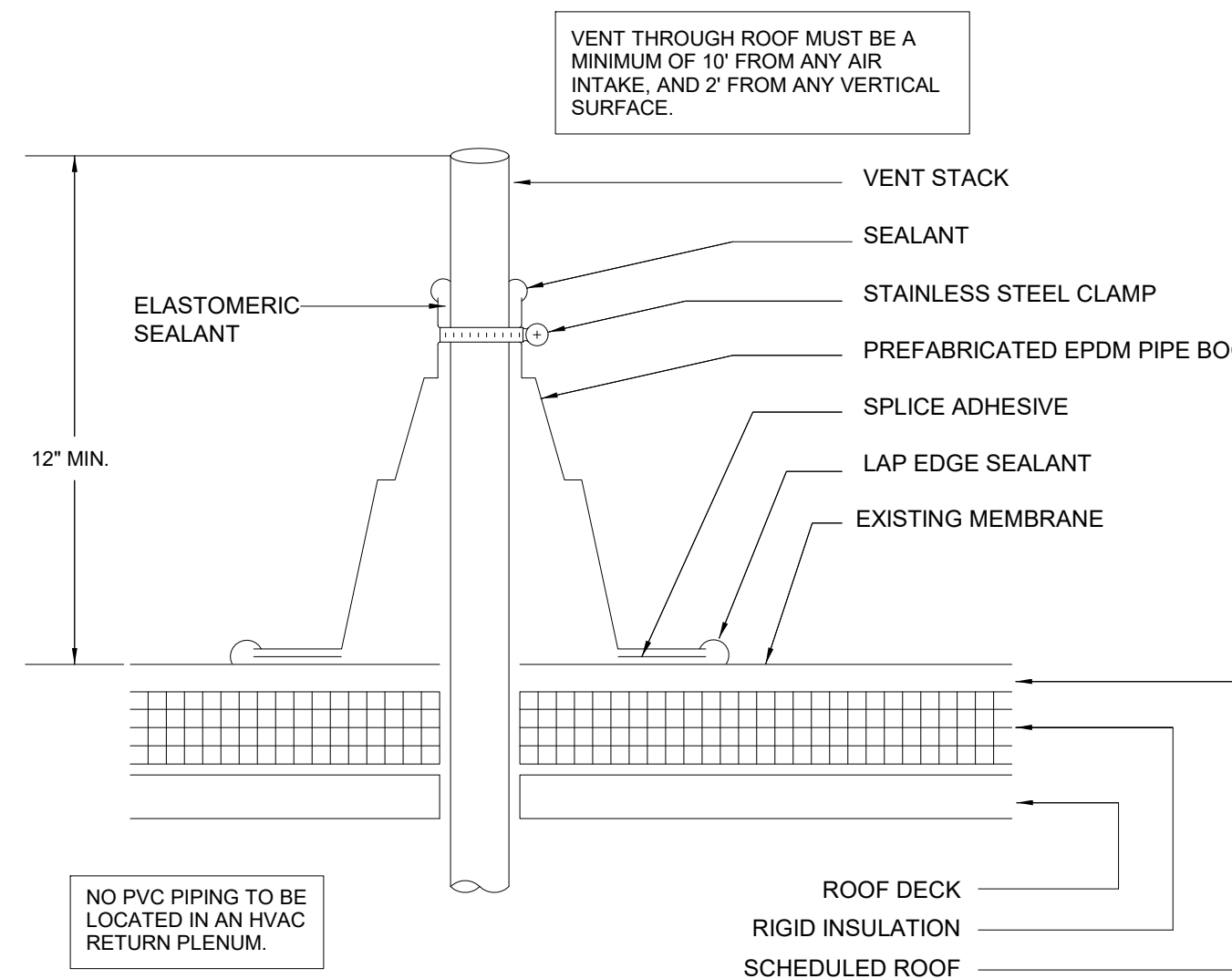
NOTES:
1. PROVIDE ASSE-1070 LISTED TEMPERATURE LIMITING DEVICE. FOR ALL PUBLIC LAVATORIES; SET AT 95°F-110°F.
2. VERIFY ALL CONNECTIONS PRIOR TO INSTALLATION.
3. PROVIDE ALL CARRIER SYSTEMS NECESSARY FOR INSTALLATION.
4. BRAIDED STAINLESS STEEL SUPPLY LINES ARE ACCEPTABLE FOR SCHEDULED SUPPLIES.

PIPE SCHEDULE	
DWV	SCHEDULE 40 PVC OR CAST IRON
DOMESTIC WATER	ALL BELOW GROUND DOMESTIC WATER PIPING SHALL BE TYPE K COPPER PIPE. ALL ABOVE GROUND DOMESTIC WATER PIPING SHALL BE TYPE L COPPER PIPE.
NATURAL GAS	SCHEDULE 40 BLACK STEEL WITH MALLEABLE-IRON FITTINGS

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATED PIPING (HWR)
	SOIL/WASTE PIPING (SS)
	VENT PIPING (V)
	NATURAL GAS PIPING (NG)
	PIPE RISE
	PIPE DROP
	SHUT-OFF VALVE
	CHECK VALVE
	DIELECTRIC UNION
	GAS COCK
	CONNECTION TO EXISTING

GENERAL NOTES

- ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADOPTED AND AMENDED BY THE AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE APPLICABLE CODES. IN THE EVENT OF CONFLICT BETWEEN THE CODE REQUIREMENTS AND THE DRAWINGS OR SPECIFICATIONS THE MOST STRINGENT SHALL PREVAIL.
- THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVAILABLE INFORMATION. FIELD VERIFY ALL FIELD CONDITIONS, DIMENSIONS, CLEARANCES, LOCATION OF EXISTING UTILITIES, ETC. PRIOR TO BIDDING, FABRICATION, OR INSTALLATION. DO NOT SCALE FROM THESE DRAWINGS. COORDINATE ALL STUB-UPS AND CONNECTIONS WITH MANUFACTURER INSTALLATION DATA.
- COORDINATE PLUMBING INSTALLATION WITH OTHER TRADES TO AVOID INTERFERENCES.
- FURNISH ALL LABOR, INSTALL ALL MATERIAL AND EQUIPMENT AND INCLUDE SERVICES AND INCIDENTALS TO THE INSTALLATION OF WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.
- OBTAIN ALL REQUIRED PERMITS, INSPECTIONS, AND PAY ALL FEES REQUIRED FOR COMPLETION OF WORK.
- ASSEMBLE ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- DO NOT PASS SANITARY, DOMESTIC WATER, VENT PIPING OR ANY OTHER TYPE OF PLUMBING DIRECTLY OVER ANY ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN ANY REQUIRED CLEARANCES.
- ARRANGE PIPING SYSTEM SO AS TO PREVENT WATER HAMMER. EACH ISOLATED FIXTURE SHALL HAVE A WATER HAMMER ARRESTOR ON THE WATER CONNECTION. ALL GROUPS OF FIXTURES SHALL CONNECT TO A WATER BRANCH WHICH SHALL END WITH A FULL SIZE WATER HAMMER ARRESTOR.
- PROVIDE AND INSTALL STANDARD 1/2"x3/8" COMPRESSION ANGLE STOPS ON ALL FIXTURE SUPPLIES UNLESS ANOTHER TYPE OF VALVE IS SPECIFIED.
- ALL SHUT-OFF VALVES SHALL BE FULL-PORT BRASS BALL VALVE, APOLLO 94A SERIES (OR APPROVED EQUAL).
- SANITARY SEWER, STORM AND VENT PIPING MATERIAL SHALL BE AS SPECIFIED/SCHEDULED UNLESS LOCATED IN AN HVAC RETURN PLENUM. SANITARY SEWER, STORM AND VENT PIPING LOCATED IN AN HVAC RETURN PLENUM SHALL BE CAST IRON.
- EXTEND ALL VENTS THROUGH ROOF (VTR) A MINIMUM OF 12" ABOVE ROOF AND TERMINATE A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES AND 20'-0" FROM ALL 100% MUA INTAKES.
- ALL ROOF PENETRATIONS FOR PLUMBING PIPING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER GUIDELINES. COORDINATE WITH ARCHITECTURAL.
- COPPER PIPING JOINTS SHALL BE SOLDERED USING SOLDER FILLER METAL (ASTM B-32) 95-5 TIN ANTIMONY.
- ALL PENETRATIONS THROUGH MASONRY WALLS SHALL BE CORE DRILLED AND SLEEVED.
A. SLEEVES ARE REQUIRED WHERE A PIPE PASSES THROUGH A WALL OR FLOOR. PIPES PASSING THROUGH A WALL OR FLOOR MUST BE INDIVIDUALLY SLEEVED UNLESS APPROVED BY ARCHITECT.
B. SLEEVES SHALL FINISH FLUSH WITH THE WALL FINISH AND SHALL FINISH 1/4" ABOVE FINISH FLOOR.
C. SLEEVES SHALL BE AS FOLLOWS:
- THROUGH MASONRY WALLS - GALVANIZED STEEL PIPE, CUT EDGES PAINTED.
- THROUGH PARTITIONS AND FLOOR - SCHEDULE 40 PVC.
- ALL FLOOR DRAINS, FLOOR SINKS, AND HUB DRAINS SHALL BE INSTALLED WITH A TRAP PRIMER CONNECTION AND PROVIDED WITH A TRAP PRIMER, TO BE "PRECISION PLUMBING PRODUCTS" (PRIMERITE PR-500) OR EQUIVALENT. USE DISTRIBUTION BLOCKS AS REQUIRED. LOCATE TRAP PRIMERS TO FACILITATE EASE OF MAINTENANCE. TRAP GUARD FLOOR DRAIN INSERTS BY PROSET, OR AS SCHEDULED, ARE AN APPROVED SUBSTITUTION IF APPROVED BY LOCAL JURISDICTION AND OWNER.
- PROVIDE ALL TUB/SHOWER VALVES WITH PRESSURE BALANCE MIXING VALVES.
- PROVIDE AN APPROVED BACKFLOW PREVENTER FOR ALL EQUIPMENT/APPLIANCES PER PLUMBING CODE AND/OR STATE AND LOCAL CODES.
- LABEL ALL PIPING PER ANSI STANDARDS WITH SERVICE AND TENANT SPACE/ROOM NUMBER. LABELS MUST BE LEGIBLE FROM FINISHED FLOOR WITH CEILING REMOVED.
- PIPING SYSTEMS THROUGHOUT THE BUILDING SHALL BE PROTECTED FROM FREEZING, GENERALLY BY INSTALLING PIPES ON THE HEATED SIDE OF BUILDING INSULATION. PIPING ADJACENT TO EXTERIOR WALLS SHALL BE INSTALLED IN FURRED SPACES WITH BUILDING INSULATION BETWEEN THE PIPING AND THE EXTERIOR WALL.
- INSULATE DRAINS AND DRAIN BODIES ABOVE SLAB THAT RECEIVE CONDENSATE FROM MECHANICAL UNITS.
- WHERE GAS WATER HEATERS ARE INSTALLED PROVIDE VENTILATION FOR EXHAUST AND COMBUSTION AIR. PROVIDE DIRECT VENT SYSTEM AS DESCRIBED IN MANUFACTURER'S PUBLISHED INSTRUCTIONS, AND/OR AS SPECIFIED ON DRAWINGS, IN WATER HEATER SCHEDULE AND WATER HEATER INSTALLATION DETAIL.
- GAS SERVICE CONNECTION LOCATION(S) SHOWN ON ENGINEERING DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE FROM THE CIVIL ENGINEER. CONFIRM THE GAS SERVICE CONNECTION LOCATION(S) WITH THE GAS COMPANY PROVIDING SERVICE PRIOR TO CONSTRUCTION. COORDINATE THE GAS PIPING SERVICE LOCATION WITH THE SITE CONTRACTOR. CONFIRM THE DESIGN PRESSURE AND NOTIFY THE ENGINEER OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.
- PORTIONS OF FUEL GAS PIPING INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSHINGS, COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS OR OTHERWISE THE FUEL GAS PIPING MUST BE SLEEVED AND THE SLEEVE MUST VENT TO ATMOSPHERE. VENTING OF THE SLEEVE SHALL BE ACCOMPLISHED AS TO PREVENT THE ENTRANCE OF WATER OR INSECTS.
- ALL GAS PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3-1/2" ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES SHALL BE ELEVATED NOT LESS THAN 3-1/2" ABOVE THE ROOF SURFACE. SEE GAS PIPING ROOF SUPPORT DETAIL.
- WIRE-BRUSH, PRIME AND PAINT ALL EXTERIOR GAS PIPING. PIPING ON ROOF TO BE INDUSTRIAL YELLOW ENAMEL. PIPING ON EXTERIOR WALLS TO MATCH BUILDING COLOR. VERIFY COLOR AND SPECIFICATIONS WITH ARCHITECT.



VENT THRU ROOF DETAIL (VTR)
SCALE: NONE



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**Fort Oglethorpe
Courts Renovation**
500 City Hall Drive
Fort Oglethorpe Georgia 30742

Revision Schedule

Rev. Number	Rev. Date	Revision Description
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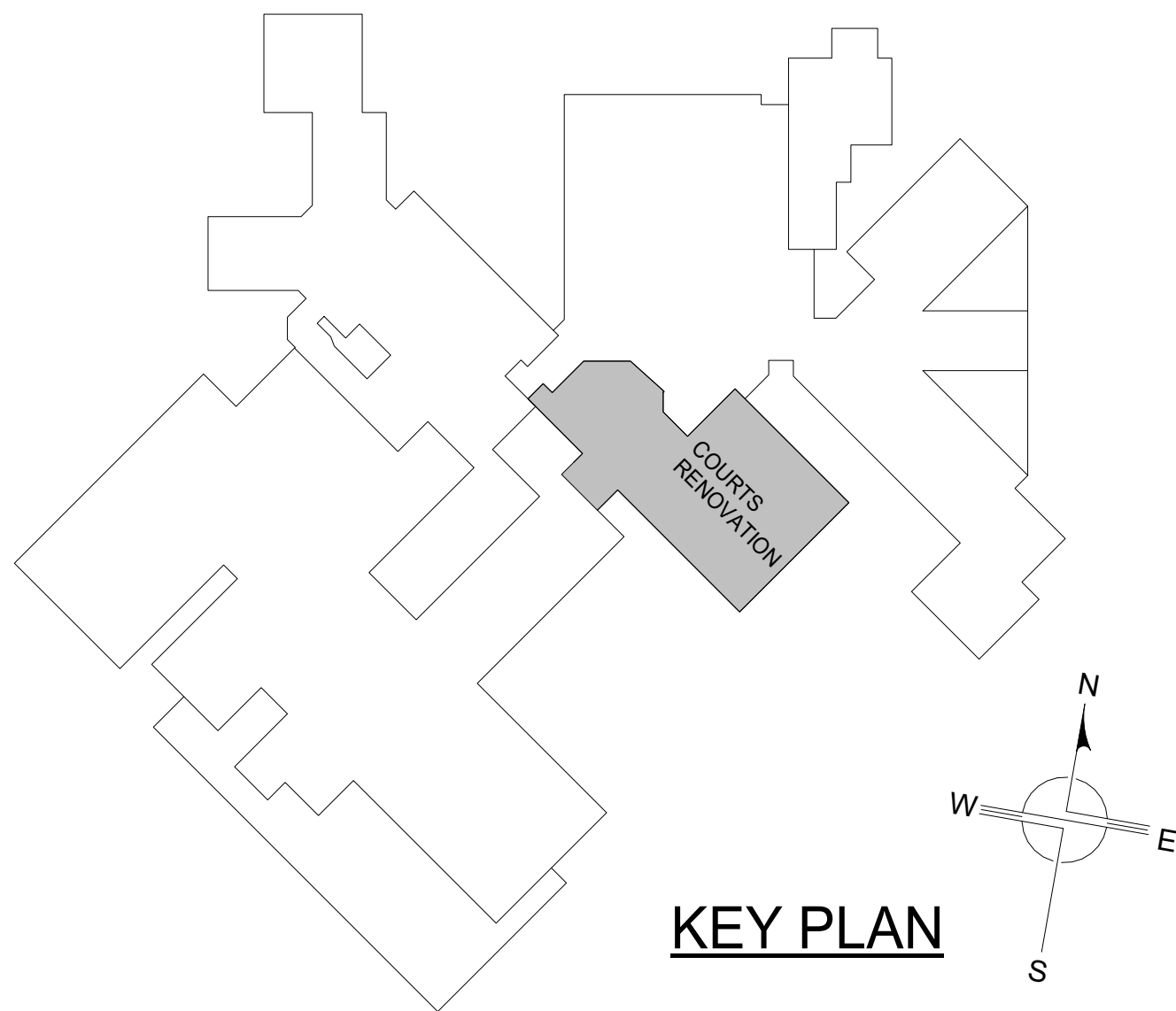
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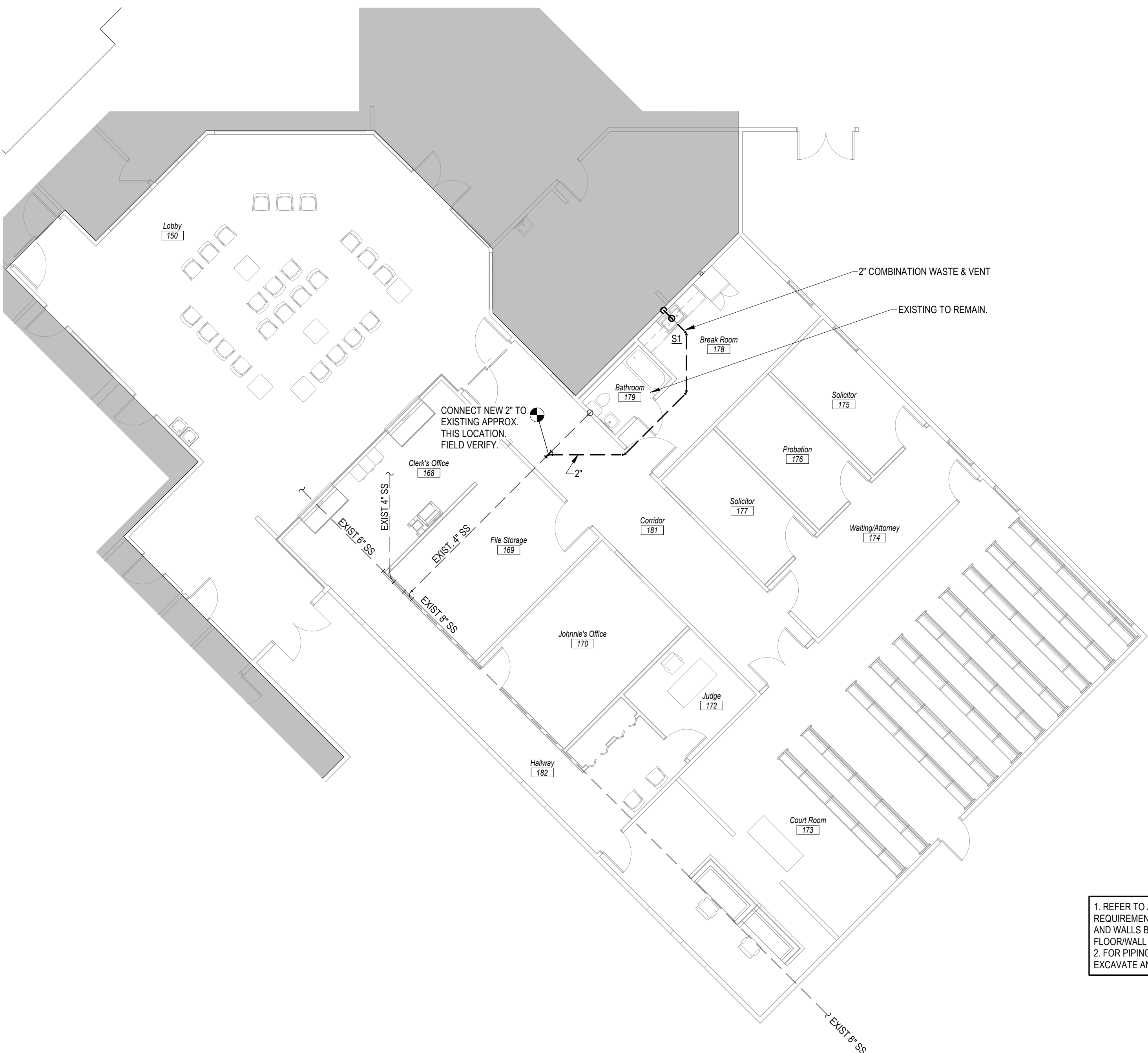
PLUMBING PLANS

P1.0

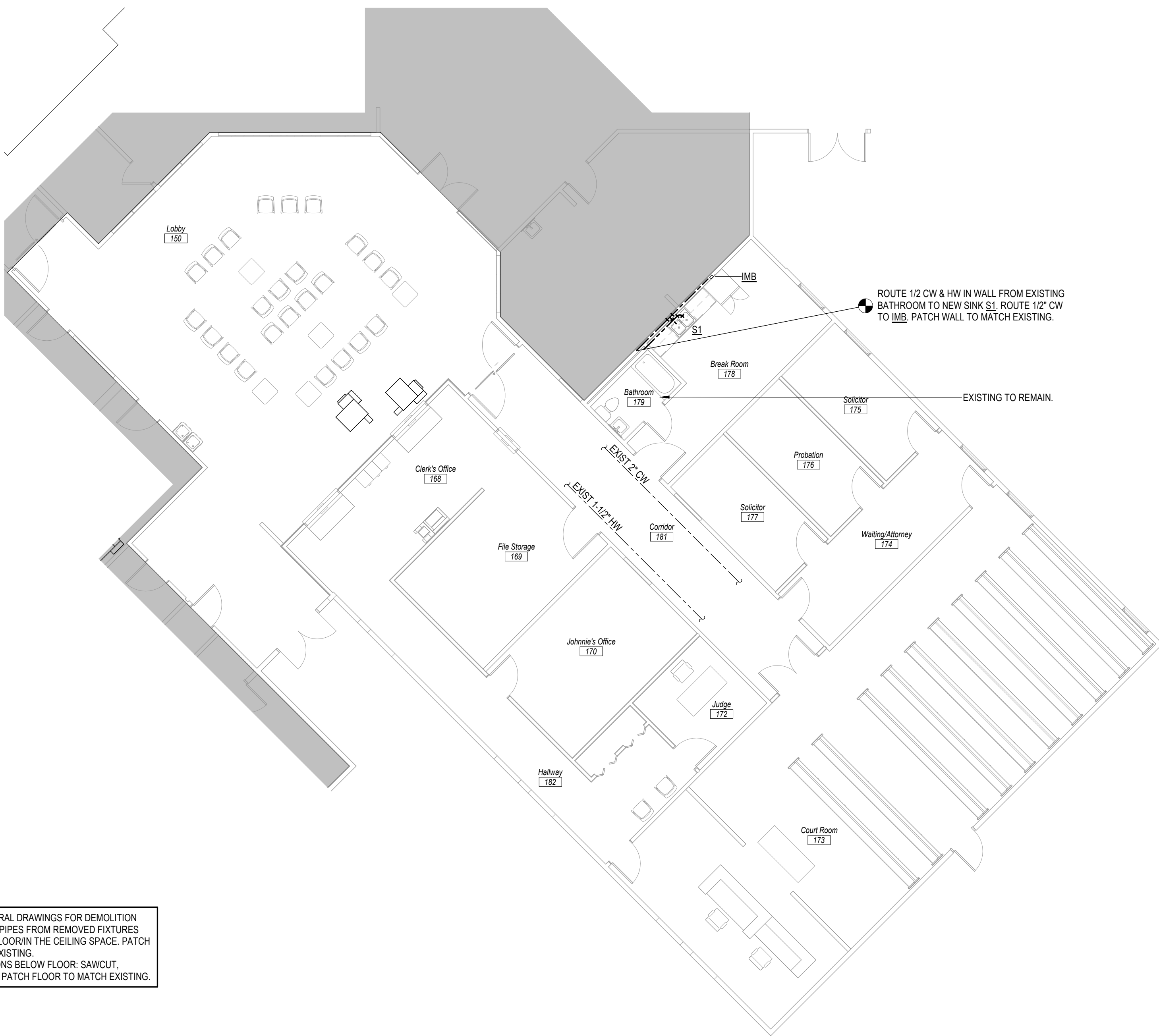
MA & A March Adams & Associates
310 Dodds Avenue
P.O. Box 3689
Chattanooga, TN 37404
(423) 698-6675
Consulting Engineers MAA # 25141



KEY PLAN



1. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION REQUIREMENTS. CAP ALL PIPES FROM REMOVED FIXTURES AND WALLS BELOW THE FLOOR IN THE CEILING SPACE. PATCH FLOOR/WALL TO MATCH EXISTING.
2. FOR PIPING CONNECTIONS BELOW FLOOR: SAWCUT, EXCAVATE AND BACKFILL. PATCH FLOOR TO MATCH EXISTING.



1

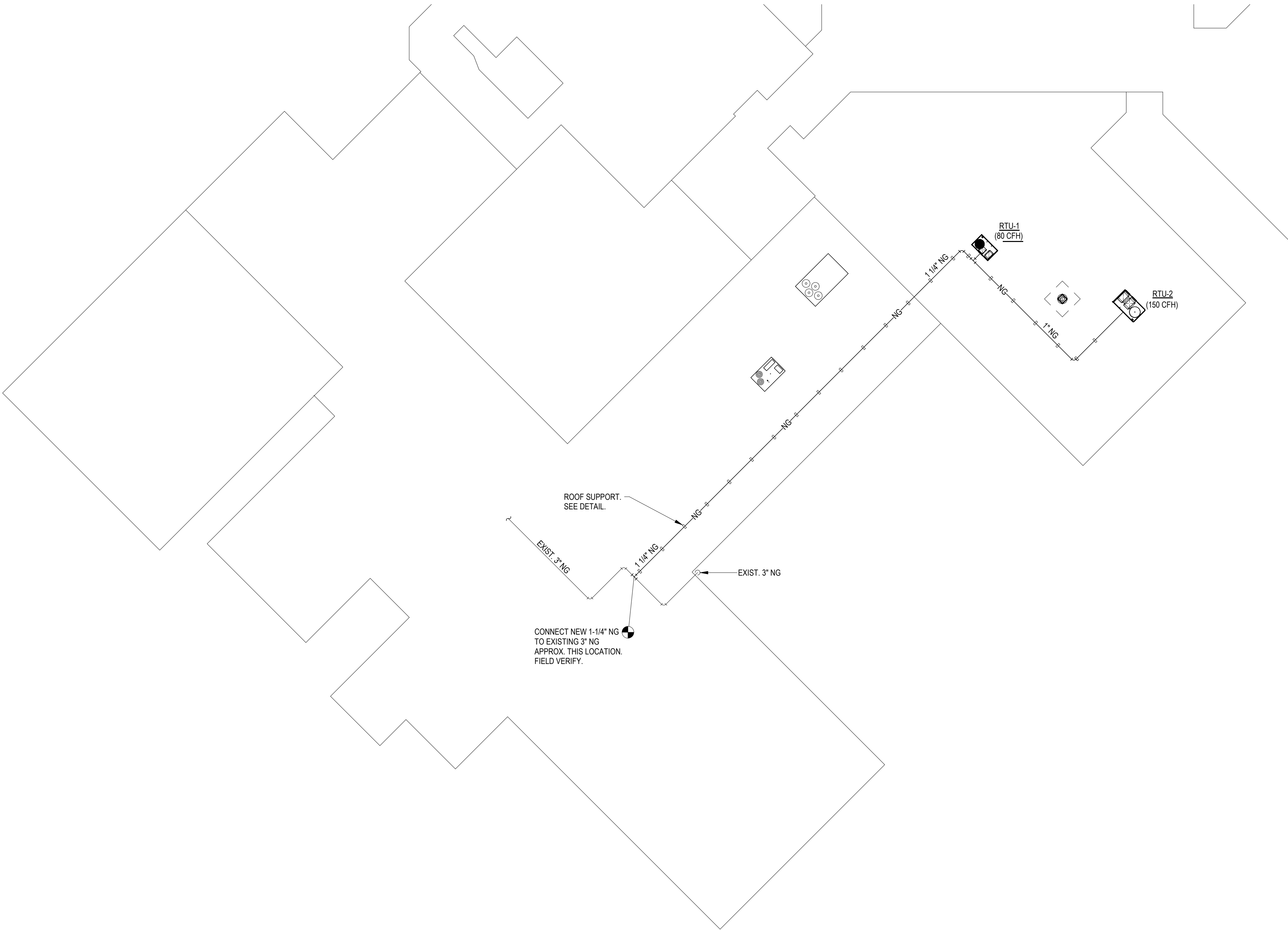
Courts Sanitary Plan

1/8" = 1'-0"

2

Courts Domestic Water Plan

1/8" = 1'-0"



1 Roof Plan
1/16" = 1'-0"



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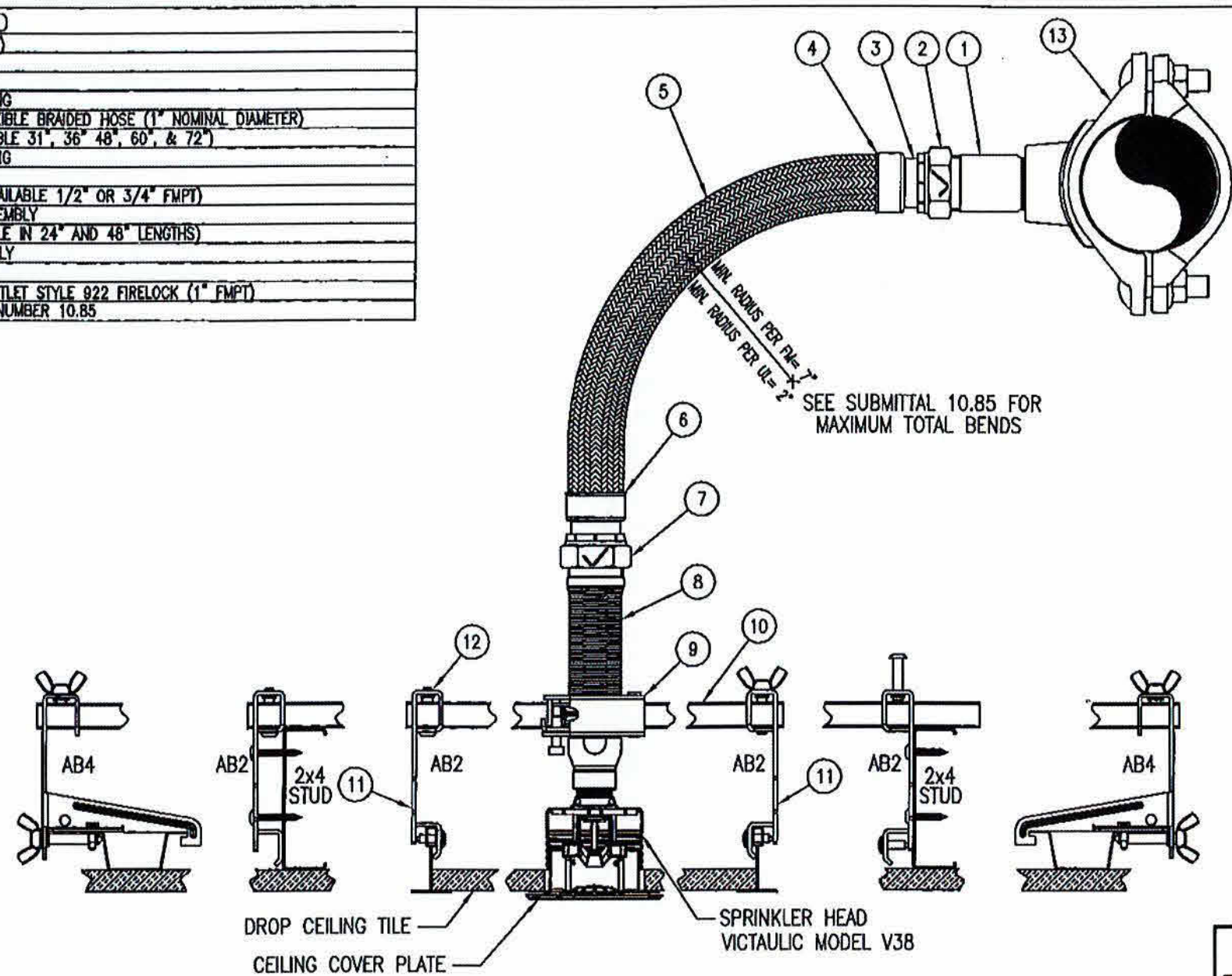
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ROOF PLUMBING
PLAN

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Consulting Engineers MAA # 25141

PRODUCT LEGEND	
1	INLET NIPPLE (1" NPT)
2	NUT
3	ISOLATION RING
4	COLLAR / WELD FITTING
5	STAINLESS STEEL FLEXIBLE BRAIDED HOSE (1" NOMINAL DIAMETER) (LENGTHS AVAILABLE 31", 36", 48", 60", & 72")
6	COLLAR / WELD FITTING
7	NUT
8	REUSERS OUTLET (AVAILABLE 1/2" OR 3/4" FWP)
9	ENTER BRACKET ASSEMBLY
10	SQUARE BAR (AVAILABLE IN 24" AND 48" LENGTHS)
11	END BRACKET ASSEMBLY
12	SHEET METAL SCREW
13	VIC MECHANICAL - T OUTLET STYLE 822 FIRELOCK (1" FWP)
SEE VICTAULIC SUBMITTAL NUMBER 10.85	



**BRAIDED VICFLEX FLEXIBLE
HOSE SPRINKLER ASSEMBLIES
FOR CONCEALED PENDENT SPRINKLERS**

NOTE: WHERE FLEXIBLE SPRINKLER HOSE FITTINGS EXCEED 6 FT IN LENGTH AND SUPPORTED BY A SUSPENDED CEILING IN ACCORDANCE WITH NFPA 13 SECTION 17.4.1.3.3.3, HANGER(S) ATTACHED TO THE STRUCTURE SHALL BE REQUIRED TO ENSURE MAXIMUM UNSUPPORTED LENGTH DOES NOT EXCEED 6 FT.



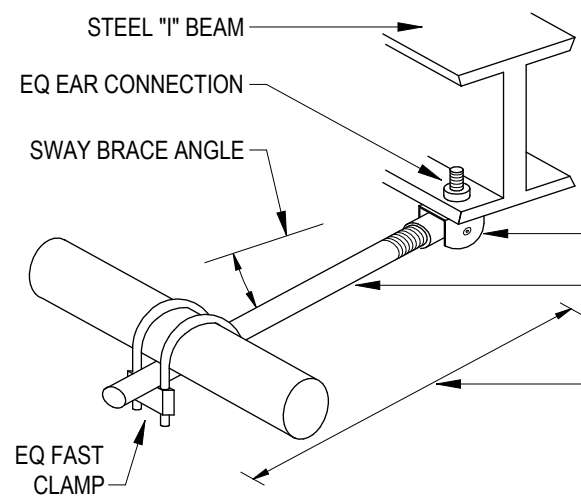
NOTES:
1. REFER TO VICTAULIC SUBMITTAL 10.85 FOR ADDITIONAL DETAILS.

VICTAULIC		CONSTRUCTION PIPING SERVICES DIVISION	
PROJECT:	BRAIDED VICFLEX HOSE ASSEMBLIES	PROJ. #	
CUSTOMER:		P.O. #	
SYSTEM:	VICFLEX FLEX SERIES ADR FOR CONCEALED PENDENT SPRINKLERS		
REF. DWG.:	VICTAULIC SUBMITTAL 10.85	#013A	
DRN. BY:	RGS	DATE:	03/04/14
CHK. BY:		DRAWING NUMBER	
		VICFLEX-B-CB-CP	REV. 0

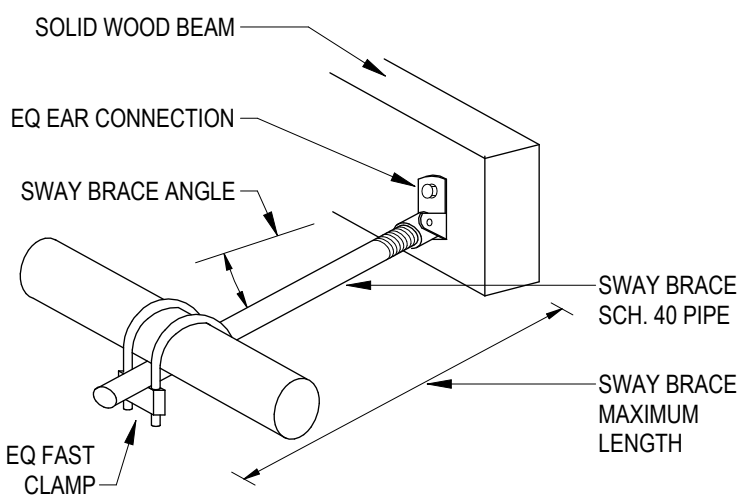
3

FLEX CONNECTOR

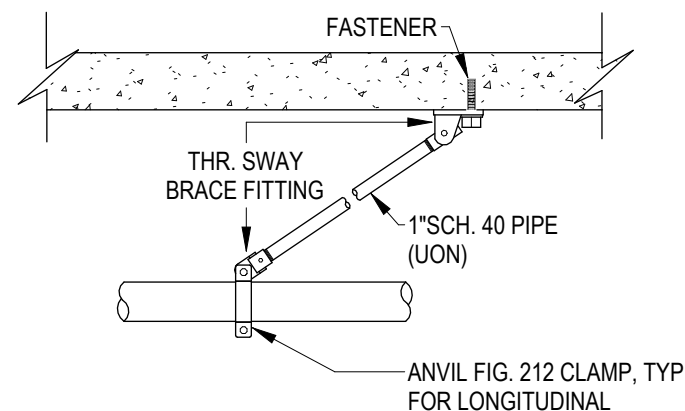
NTS



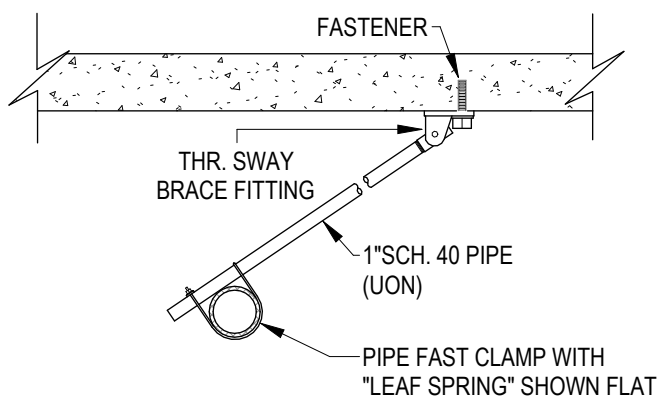
EARTHQUAKE BRACE



EARTHQUAKE BRACE



**LONGITUDINAL SWAY BRACE
WITH THREADED FITTINGS**



**LATERAL SWAY BRACE
WITH THREADED FITTINGS**

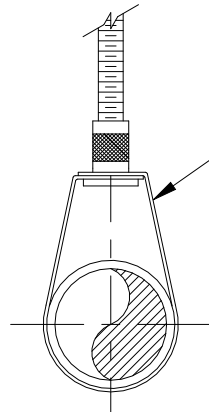
1

SEISMIC BRACING

NTS

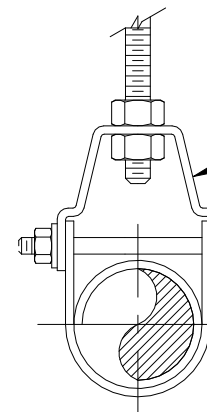
FIRE SPRINKLER PIPE HANGER SIZE AND SPACING

PIPE SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
HANGER ROD SIZE	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"
SCD. 40 STEEL PIPE	x	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
SCD. 10 STEEL PIPE	x	12-0	12-0	12-0	12-0	12-0	12-0	x	x	x	x
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	x	x	x	x
POLYBUTYLENE (IPS)	x	3-9	4-7	5-0	5-11	x	x	x	x	x	x
POLYBUTYLENE (CTS)	2-11	3-4	3-11	4-5	5-5	x	x	x	x	x	x



USE WITH ATTACHMENTS C1, C2, C3, C4, M1, M2, M3, M4, M5 & W1

**PIPE HANGER
MSS TYPE 10**



USE WITH ATTACHMENTS C2, C3, C4, M1, M2, M3, M4, M5, B1, B2, B3, B4, B5, B6 & W1

**PIPE HANGER
MSS TYPE 1**

2

PIPE HANGER SPACING

NTS

SHOP DRAWING SUBMITTALS

FIRE PROTECTION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND ASSOCIATED CALCULATIONS, DRAWN AND SIGNED BY A GEORGIA-REGISTERED FIRE PROTECTION SPRINKLER CONTRACTOR. PRIOR TO INSTALLATION, CONTRACTOR TO OBTAIN THE MOST RECENT HYDRANT TEST THAT MUST BE WITHIN SIX MONTHS OF SUBMITTALS. CONTRACTOR SHALL SUBMIT DRAWINGS TO THE LOCAL FIRE MARSHAL'S OFFICE. DRAWINGS MUST BE APPROVED PRIOR TO INSTALLATION AFTER APPROVAL BY THE MECHANICAL ENGINEER OF RECORD (PROCESSED WITH THE ENGINEER'S SHOP DRAWING REVIEW STAMP). HYDRAULIC CALCULATIONS MUST INCLUDE A SAFETY FACTOR OF AT LEAST 18 PSI WITH PIPE SIZING BASED ON VELOCITIES NOT EXCEEDING 30FT/S. REFER TO NFPA 13 DENSITY/AREA CURVES FIGURE.

SPRINKLER DESIGN INTENT

SPRINKLER DESIGN INTENT

1. THIS IS A 2019 NFPA 13 DESIGN BASED ON GEORGIA BUILDING CODE WITH 2025 AMENDMENTS. CONTRACTOR SHALL PROVIDE A COMPLETE COMPLIANT SYSTEM WHETHER INDICATED ON THE PLANS OR NOT.
2. THIS IS A MODIFICATION TO AN EXISTING WET SYSTEM, LIGHT HAZARD OCCUPANCY.
3. TOTAL GROSS SPRINKLER AREA FOR THE FIRST FLOOR IS APPROXIMATELY 5,419 SQ. FT.
4. SPRINKLERS SHALL BE QUICK RESPONSE.
5. PIPING CLASS I, SCHEDULE 10 AND SCHEDULE 40 ASTM A53 OR A120 BLACK STEEL PIPING. EXISTING MAIN(S), CROSS MAIN(S), BACK MAIN(S) ARE TO BE USED FOR NEW SPRINKLERS.
6. CPVC IS NOT PERMITTED ON THIS PROJECT.
7. FITTINGS: 2" AND SMALLER FITTINGS ARE 125# C.I. SCREWED 2 1/2" AND LARGE FITTINGS ARE GROOVED. MECHANICAL TEES OR WELD OUTLETS.
8. ALL EXISTING SPRINKLERS IN THE AREA IN SCOPE ARE TO BE DEMOED AND ARE NOT TO BE RELOCATED OR REUSED.
9. ALL SPRINKLER PIPING SHALL BE SEISMICALLY RESTRAINED WITH COMPONENT IMPORTANCE FACTOR (ip) OF 1.5. INSTALL PER CH. 9.3 OF NFPA 13 AND CLEARANCE AROUND PIPING PASSING THROUGH FLOORS, WALLS AND FOUNDATIONS IN ACCORDANCE WITH 9.3.4 OF NFPA 13.
10. COORDINATE WITH ALL TRADES BEFORE INSTALLATION.

FIRE PROTECTION GENERAL NOTES

1. SCOPE OF WORK

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND INCLUDE SERVICES AND INCIDENTALS TO SATISFY A COMPLETE AND OPERATING SYSTEM WHETHER SPECIFIED OR IMPLIED.
B. ALL FIRE PROTECTION WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL STATE, LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES. ALL FIRE PROTECTION SYSTEMS TO MEET RELEVANT STANDARDS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INCLUDING, BUT NOT LIMITED TO 13, 14, 20, 24, AND 70.
C. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
D. FIRE PROTECTIONS/SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM PER SPECIFICATIONS.

2. PERMITS

A. THE CONTRACTOR SHALL BE A LICENSED FIRE SPRINKLER CONTRACTOR.
B. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

A. SUBMIT MATERIAL LIST, INCLUDING ALL MAJOR EQUIPMENT, AND SHOP DRAWINGS TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHAL FOR APPROVAL.

4. SPRINKLER HEADS

A. WHERE SPRINKLER HEADS ARE INSTALLED IN ACOUSTICAL CEILING TILES, HEADS SHALL BE CENTERED IN THE TILE.
B. SPRINKLER HEADS ARE TO BE PROVIDED IN THE STYLE AND COLOR/FINISH AS SPECIFIED ON THE DRAWING. HOWEVER, CONTRACTOR TO CONFIRM WITH OWNER / ARCHITECT PRIOR TO PURCHASE THAT COLOR/FINISH ACCEPTABLE.
C. HEAD LOCATIONS SHOWN ON DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY.
D. UNLESS OTHERWISE SHOWN OR NOTED, INSTALL UPRIGHT HEADS IN AREAS WITHOUT CEILINGS. PROVIDE ESCUTCHEON PLATES FOR AREAS WITH CEILINGS. TEMPERATURE RATING OF SPRINKLERS SHALL BE AS REQUIRED BY NFPA OR AHJ.
E. MAXIMUM SPACING OF SPRINKLERS TO NOT EXCEED SPRINKLER HEAD MANUFACTURER'S PUBLISHED SPRAY LIMITATIONS.
F. SPRINKLERS ARE REQUIRED BELOW ANY OBSTRUCTIONS GREATER THAN 4 FT. IN WIDTH AS DEFINED IN 9.5.5.3.1 OF NFPA 13.
G. THIS IS A CONCEPTUAL PLAN ONLY. A LICENSED FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL CODES. ANY ADDITIONAL SPRINKLER HEADS ABOVE WHAT IS SHOWN ON THIS PLAN SHALL BE PROVIDED AT NO ADDITIONAL COST.

5. SPRINKLER PIPING

A. ALL NEW SPRINKLER PIPE IS TO BE RUN AS HIGH AS POSSIBLE AND COORDINATED WITH ALL TRADES.
B. SPRINKLER PIPE SHALL BE MADE TO ANY OF THE SPECIFICATIONS LISTED. WELDING WILL NOT BE PERMITTED IF THERE ARE ANY SPRINKLERS CONNECTED THERETO.
C. PIPING MATERIAL MAY BE SCHEDULE 10 (THINWALL) PROVIDED JOINTS ARE MADE BY ROLL-GROOVE COUPLING, THREADING OF SCHEDULE 10 WILL NOT BE PERMITTED.
D. PIPING MATERIAL MAY BE SCHEDULE 40 WITH FLANGED, ROLL-GROOVED COUPLINGS, OR THREADED JOINTS.
E. DRY WET SPRINKLER PIPING SHALL BE SLOPED TO DRAIN. LOW POINT DRAINS SHALL BE PROVIDED AT ANY CHANGE IN PITCH.
F. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES. CUTTING AND PATCHING SHALL BE RESTORED IN A MANNER ACCEPTABLE TO THE ARCHITECT AND OWNER.
G. PIPE SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.

6. WALL AND FLOOR PENETRATIONS:

A. SLEEVES ARE REQUIRED WHERE A PIPE PASSES THROUGH A WALL OR FLOOR. PIPES PASSING THROUGH A WALL OR FLOOR MUST BE INDIVIDUALLY SLEEVED UNLESS APPROVED BY ARCHITECT.
B. SLEEVES SHALL FINISH FLUSH WITH THE WALL FINISH.
C. SLEEVES SHALL BE AS FOLLOWS:
-THROUGH MASONRY WALLS - GALVANIZED STEEL PIPE
-THROUGH PARTITIONS AND FLOOR - 22 GAUGE GALVANIZED SHEET METAL.
D. PROVIDE FIRE STOP PROTECTION WHEN PENETRATING FIRE RATED PARTITION OR WALL.

7. PIPE SUPPORTS

A. ALL HANGERS MUST BE AN APPROVED TYPE BY CHAPTER 17 OF NFPA 13. NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.
B. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. VERTICAL RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL WITH STEEL PIPE CLAMPS. THE USE OF WIRE OR STRAP METAL HANGER TO SUPPORT PIPES WILL NOT BE PERMITTED. HANGING PIPES FROM OTHER PIPES WILL NOT BE PERMITTED. PIPING SHALL BE CAREFULLY COORDINATED BEFORE INSTALLATION WITH SYSTEMS AND EQUIPMENT IN CHASES AND OTHER CONGESTED AREAS.
C. SEISMIC PERFORMANCE: FIRE-SUPPRESSION PIPING BRACING SHALL BE IN ACCORDANCE WITH CHAPTER 17 & 18 OF NFPA 13.
D. WHERE FLEXIBLE SPRINKLER HOSE FITTINGS EXCEED 6 FT IN LENGTH AND SUPPORTED BY A SUSPENDED CEILING IN ACCORDANCE WITH SECTION 17.4.1.3.3.2 OF NFPA 13, A HANGER(S) ATTACHED TO THE STRUCTURE SHALL BE REQUIRED TO ENSURE MAXIMUM UNSUPPORTED LENGTH DOES NOT EXCEED 6 FT.

8. SEISMIC

A. SEISMIC RESTRAINT FOR SPRINKLER PIPING IS REQUIRED. PROVIDE FLEXIBLE COUPLINGS AT FLEXURE JOINTS PER 18.2.1 OF NFPA 13.

9. WORKING PLANS

A. THE DRAWINGS INCLUDED AS PART OF THIS SET OF CONSTRUCTION DOCUMENTS ARE TO PROVIDE ENGINEERING DESIGN INTENT. THE CONTRACTOR SHALL PREPARE WORKING DRAWINGS, (AS DEFINED BY NFPA 13) WHICH SHALL INCLUDE HYDRAULIC CALCULATIONS AND WILL BE SUBMITTED TO THE ENGINEER AND FIRE MARSHAL FOR APPROVAL.

10. MISCELLANEOUS

A. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THE SPRINKLER PLANS ARE INTENDED TO BE DIAGRAMMATIC. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION.
B. DRAINS MUST BE PLACED AT ALL SYSTEM LOW POINTS. DRAINS MUST BE LOCATED DOWNSTREAM OF ISOLATION VALVES AND DRAIN TO A LOCATION APPROVED BY THE AHJ.
C. THE MAXIMUM PRESSURE AT ANY POINT IN THE SYSTEM AT ANY TIME SHALL NOT EXCEED 175 PSI. IF STATIC PRESSURE AT THE HOSE VALVE EXCEEDS 175 PSI, AN APPROVED PRESSURE REGULATING DEVICE MUST BE PROVIDED TO LIMIT THE STATIC AND RESIDUAL PRESSURES TO 175 PSI AT THE HOSES.
D. ALL SYSTEM GAUGES AND VALVES MUST BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE. (16.1.1 OF NFPA 13)
E. CONTRACTOR TO INSPECT ALL DRAWINGS CAREFULLY FOR LOCATIONS SUBJECT TO FREEZING CONDITIONS. DO NOT INSTALL PIPING IN AREAS EXPOSED TO AMBIENT CONDITIONS UNLESS ADEQUATELY PROTECTED. PIPING SYSTEMS THROUGHOUT THE BUILDING SHALL BE PROTECTED FROM FREEZING, GENERALLY BY INSTALLING PIPES ON THE HEATED SIDE OF BUILDING INSULATION. PIPING ADJACENT TO EXTERIOR WALLS SHALL BE INSTALLED IN FURRED SPACES WITH BUILDING INSULATION BETWEEN THE PIPING AND THE EXTERIOR WALL.
F. CONTRACTOR TO PROVIDE OWNER WITH SPARE SPRINKLER HEADS ALONG WITH THE APPROPRIATE SPRINKLER HEAD WRENCHES. PROVIDE SIX (6) SPARE SPRINKLER HEADS OF EACH TYPE AND TEMPERATURE RATING. ADDITIONAL SPRINKLER HEADS ARE TO BE PROVIDED WHEN THE TOTAL NUMBER PROJECT SPECIFIC SPRINKLER HEADS EXCEED 300. FOR PROJECTS WHERE A TYPE SPRINKLER HEAD COUNT IS BETWEEN 300 TO 1000, A MINIMUM OF TWELVE (12) SPARE HEADS SHALL BE PROVIDED FOR THAT TYPE SPRINKLER HEAD. FOR PROJECTS WITH A TYPE SPRINKLER HEAD COUNT THAT EXCEED 1000, PROVIDE TWENTY-FOUR (24) SPARE HEADS FOR THAT TYPE HEAD SPRINKLER HEAD.

11. GUARANTEE

A. MATERIAL, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE SPRINKLER CONTRACTOR'S EXPENSE.

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Project No.: 25-001
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Fire Protection Details & Notes

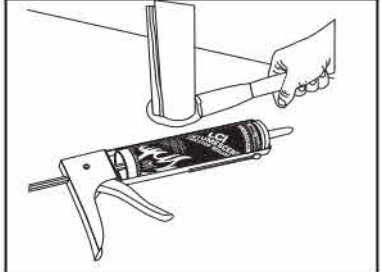
PRODUCT DATA SHEET



SERIES LCI INTUMESCENT SEALANT

APPLICATIONS

SpecSeal® LCI Sealant has a broad application base designed to seal a wide variety of common penetrations and construction joints. Penetrant types include insulated and non-insulated metallic pipes and tubes, non-metallic pipes and tubes, and common electrical service and power distribution, telephone, data, and TV cabling. This product is also used in conjunction with other SpecSeal® Products such as SpecSeal® Firestop Collars and Wrap Strips to protect larger plastic pipes. See Table A for a summary application list.



PHYSICAL PROPERTIES

Properties	Series LCI
Color	Red
Odor	Mild Latex
Density	9.0 lb/gal (1.08 kg/L)
pH	9.0
Solids Content By Weight	80%
Solids Content By Volume	66.9%
In Service Temperature	≤ 185°F (85°C)
Flame Spread	0*
Smoke Developed	0*
STC Rating	62
(ASTM E84/ASTM C391)	
VOC Content	32.7g/L
(EPA Method 24/ASTM D2006)	
Shelf Life	2 yrs
Volume Expansion	10X Free Expansion
Storage Temp.	40°F (4°C) - 95°F (35°C)

* Tested to ASTM E84/ASTM C391 at 1/4" surface coverage (modified test for sealant and caulks)

PRODUCT DESCRIPTION

SpecSeal® LCI Sealant is a versatile and economical intumescent sealant that has excellent caulking properties as well as high build properties on vertical or overhead surfaces. This single grade may be caulked (standard cartridge or bulk loaded), knifed or troweled. In addition, SpecSeal® LCI Sealant does not contain PCB's or asbestos.

SpecSeal® LCI Sealant is storage stable (when stored according to the manufacturer's recommendations), and will not separate or shrink when dried. SpecSeal® Series LCI Sealant will adhere to all common construction and penetrant materials and contains no solvents that might adversely effect plastic pipes or cable jackets.

FEATURES

- **Economical:** High performance without the high price!
- **Highly Intumescent:** Expands up to 8 times.
- **Excellent Smoke Seal**
- **Water Resistant** : Will not re-emulsify when dry.
- **Water-Based** for easy installation, cleanup, and disposal.
- **Acoustically Tested:** Reduces noise transmission
- **Safe...**Low VOC's, No Solvents, Non-Halogenated
- **Paintable**

PERFORMANCE

SpecSeal® LCI Sealant is the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) and ASTM E1966 (UL2079) as well as to the time-temperature requirements of ASTM E119 (UL263), concrete or masonry walls, as well as gypsum board walls. SpecSeal® LCI Sealant meets Class A finish requirements for Flame Spread and Smoke Development when tested in accordance with ASTM E84 (UL723). Meets or exceeds the requirements of ASTM C834, Type C, Grade 0. SpecSeal® LCI Sealant is also acoustically tested, demonstrating excellent sound attenuation properties.



FBC® System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings. FBC, FlowGuard Gold, BlazeMaster and Corzan are licensed trademarks of The Lubrizol Corporation.



FILL, VOID OR CAVITY MATERIALS FOR USE IN JOINT SYSTEMS AND THROUGH-PENETRATION FIRESTOP SYSTEMS. SEE UL FIRE RESISTANCE DIRECTORY, 3LT3



SPECIFICATIONS

The firestopping sealant shall be a water-resistant, intumescent latex sealant. The sealant when exposed to high heat or flame shall exhibit a free expansion of up to 10 times its original volume. The firestopping sealant shall contain no water soluble nor hygroscopic ingredients and shall be acoustically tested. The sealant shall be UL Classified and/or FM approved and tested to the requirements of ASTM E814 (UL1479), CAN/ULC S115 and shall meet Class A finish requirements when tested in accordance with ASTM E84 (UL723).

SPECIFIED DIVISIONS

- DIV. 7 0740 Through-Penetration Firestopping
- DIV. 13 13900 Special Construction Fire Suppression & Supervisory Systems
- DIV. 15 15250 Mechanical Insulation - Fire Protection
- DIV. 16 16500 Basic Electrical Materials & Methods

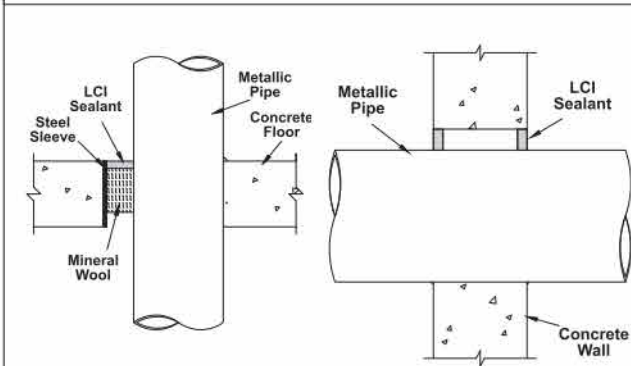


Technical Service 1-800-992-1180
www.stifirestop.com

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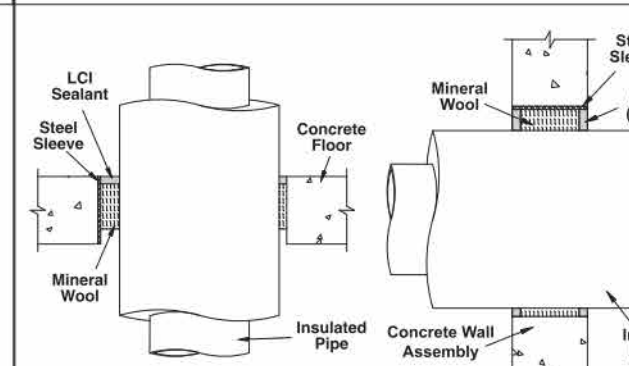
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Fig 1: METALLIC PIPES - Concrete/Masonry Floors & Walls



UL System No. C-AJ-1353
F Rating: 2 Hr • T Rating: 0 Hr
Steel or Iron Pipe: <1/2", Copper Pipe: <4"
Annulus: 0" to 2"
Sealant Depth: 1-1/4"
Forming Material: Non-4 pcd mineral wool (2 1/4" Depth)

Fig 2: INSULATED METALLIC PIPES - Concrete/Masonry Floors & Walls



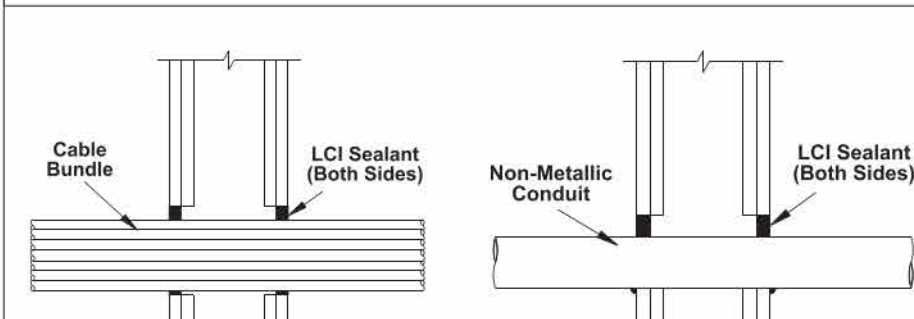
UL System No. W-J-1098
F Rating: 2 Hr • T Rating: 1/4 Hr & 1 Hr
Steel or Iron Pipe: <4", Copper Pipe: <4"
Annulus: 0" to 2"
Sealant Depth: 5/8"

UL System No. C-AJ-5138
F Rating: 2 Hr • T Rating: 3/4 Hr & 1 Hr
Steel or Iron Pipe: 6", Copper Pipe: 4"
Pipe Covering: Max. 2" Non glass or mineral wool pipe insulation.
Annulus: 1/4" to 1-3/8" • Sealant: 1/2"
Forming: Nom. 4 pcd mineral wool (3" depth)

SEALANT REQUIREMENTS IN CUBIC INCHES PER 1/4 INCH OF INSTALLED DEPTH*

PIPE SIZE	Diameter of Opening - in. (mm)	1.5 (38)	2.0 (51)	3.0 (76)	4.0 (102)	5.0 (127)	6.0 (152)	7.0 (178)	8.0 (203)	10 (254)	12 (305)	14 (356)	26 (660)
Trade Size in. (mm)	Pipe O.D. in. (mm)												
3.5 (13)	3.940 (21)	0.3 (4.9)	0.6 (8.9)	1.6 (26.2)	3.0 (49.2)	4.8 (78.7)	6.9 (112.0)	9.5 (155.7)	12.4 (203.2)	16.5 (319.5)	28.1 (460.5)	38.3 (627.6)	120.6 (2178)
1.0 (25)	1.315 (33)	0.1 (1.6)	0.4 (6.6)	1.4 (22.9)	2.8 (45.9)	4.6 (75.4)	6.7 (109.8)	9.3 (152.4)	12.2 (200.0)	19.3 (315.3)	27.9 (457.2)	38.1 (624.3)	132.4 (2170)
1.5 (38)	1.900 (48)			1.1 (18.0)	2.4 (39.3)	4.2 (68.6)	6.4 (104.9)	8.9 (145.8)	11.9 (195.0)	18.9 (309.0)	27.6 (452.3)	37.8 (618.4)	132.0 (2163)
2.0 (51)	2.375 (60)			0.7 (11.5)	2.0 (32.8)	3.6 (62.3)	6.0 (98.3)	8.5 (138.2)	11.5 (188.4)	18.5 (300.7)	27.2 (445.7)	37.4 (598.6)	131.6 (2157)
2.5 (64)	2.875 (73)			0.1 (1.6)	1.5 (24.8)	3.3 (54.1)	5.4 (88.4)	8.0 (131.1)	10.9 (178.6)	18.0 (295.9)	26.7 (437.5)	36.9 (604.7)	131.1 (2148)
3.0 (76)	3.500 (79)			0.7 (11.5)	2.8 (45.0)	4.7 (77.0)	7.2 (118.0)	10.2 (167.1)	17.2 (281.9)	25.9 (424.4)	36.1 (591.6)	50.3 (830.3)	130.3 (2135)
3.5 (89)	4.000 (102)					1.8 (29.5)	3.9 (63.9)	6.5 (106.5)	9.4 (154.0)	16.5 (270.4)	25.1 (411.3)	35.3 (578.5)	129.6 (2124)
4.0 (102)	4.500 (114)					0.6 (13.1)	3.0 (49.2)	5.6 (91.8)	8.5 (139.3)	15.6 (255.6)	24.2 (396.6)	34.4 (563.7)	128.7 (2109)
6.0 (152)	6.625 (168)							1.1 (18.0)	4.8 (85.3)	11.1 (181.9)	19.7 (322.8)	29.9 (480.0)	129.2 (2093)
8.0 (203)	8.625 (219)									4.9 (80.3)	13.6 (222.9)	23.8 (390.0)	118.0 (1934)
10.0 (254)	10.750 (273)										5.6 (91.8)	15.8 (259.0)	110.0 (1903)
12.0 (305)	12.750 (324)											6.6 (108.1)	100.9 (1652)
24.0 (610)	24.000 (610)												186.6 (327.5)

Fig 3: ELECTRICAL, DATA OR COMMUNICATIONS - Gypsum Walls



UL System No. W-L-3169
F Rating: 1, 2 Hr • T Rating: 1/4 Hr & 3/4
Up to 4-1/2" cable bundle
Annulus: 0" to 1/2" • Sealant: 5/8"

UL System No. W-L-2241
F Rating: 1, 2 Hr • T Rating: 0, 1/4, 1, 1-3/4
<2" Rigid PVC or ENMT, CPVC, ABS
Annulus: 0-1" • Sealant: 5/8"

TABLE A: APPLICATIONS

TESTED AND CLASSIFIED FOR FIRE RESISTANCE

- **Metallic Pipes** including steel, iron, or copper pipe and tubing.
- **Nonmetallic Pipes, Conduits & Tubing** including PVC, CPVC, ABS, and PEX.
- **Electrical & Electronic Cabling** including service entrance, power distribution, computer, telephone, and television.
- **Metal Ductwork** including HVAC, bath and dryer vents.
- **Insulated Pipes** including heating, cooling, and condensation applications.
- **Complete Wood Floor firestopping package** for electrical, plumbing, HVAC, telephones, and television.



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MAINTENANCE

No maintenance is normally required, however a periodic inspection of rated barriers is recommended to make sure that any new openings, modifications or previously installed firestops, or areas exhibiting physical damage, have been properly sealed or repaired. Subsequent sealing or repairs should be accomplished using SpecSeal® products per the original approved design.

RETROFIT: When adding or removing penetrants, care should be taken to minimize damage to the seal. Reseal using SpecSeal® products per the approved design. NOTE: New penetrants of a different nature than the original design may require a totally new firestop design or extensive modifications to the existing design. Reseal all openings as per the requirements of the modified design.

TECHNICAL SERVICE

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL Systems, Material Safety Data Sheets and other technical information is available through the Technical Library at www.stifirestop.com.

PRECAUTIONARY INFORMATION

Consult Material Safety Data Sheet for additional information on the safe handling and disposal of this material.

AVAILABILITY

SpecSeal® Series LCI Sealant is available from authorized STI distributors. Consult factory or website for the names and locations of the nearest sales representatives or distributors.

ORDERING INFORMATION

CAT. NO.	DESCRIPTION	
LCI300	Sealant 10.1 oz Tube	18.2 Cu In (300 ml)
LCI305	Sealant 5 Gal Pail	1,155 Cu In (19.0 L)
LCI320	Sealant 20 oz Sausage	36 Cu in. (592 ml)
LCI329	Sealant 29 oz Quart Tube	52 Cu in. (858 ml)



Additional SpecSeal Products.

Series SSS Sealant

The industry's most versatile sealant provides the firestopping solutions for a wide range of combustible and noncombustible applications. Water based intumescent sealant expands up to 8X.

Intumescent Wrap Strips

Three grades of intumescent wrap strips provide an unmatched combination of flexibility, economy, and expansion (up to 30X). Systems for plastic pipes including FR Polypropylene up to 8" trade size.

SSC & LOC Firestop Collars

Easy to install, economical protection for ABS and PVC pipes (both solid and foam core) as well as CPVC, PVDF, and FRPP. LOC Collars are available up to 4" and SSC Collars are available up to 8" trade size.

Firestop Mortar

Lightweight, versatile and economical The best choice for large or complex installations.

SSP Firestop Putty

Available both in bar form and in pails, putty provides easy retrofit for through-penetrations and economical protection for electrical boxes.

SIL Silicones

Sealants and foam for through-penetrations and construction joints. Unexcelled aging characteristics and flexibility.

Elastomeric Joint Seals

Economical products for sealing construction joints. Choose caulk or spray applied products tested to UL2079.

IMPORTANT NOTICE: All statements, technical information, and recommendations contained herein are based upon testing believed to be reliable, but the accuracy and completeness thereof is not guaranteed.

LIMITED WARRANTY: STI warrants that its products will be free of defects for one year from the date of purchase. In the event a product does not conform to this warranty, the sole and exclusive remedy is, at STI's option, replacement of the product or refund of the purchase price. The warranty provided herein shall be void and of no effect in the event that the product is not installed in accordance with STI's published instructions, listed systems and applicable building and safety codes. THIS WARRANTY IS IN LIEU OF ALL OTHER REPRESENTATIONS AND EXPRESSED OR IMPLIED WARRANTIES (including the implied warranties of merchantability or fitness for a particular use) AND UNDER NO CIRCUMSTANCES SHALL STI BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING, WITHOUT LIMITATION, ANY LOSS OF REVENUE, PROFIT OR USE. Prior to use, the user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability for subsequent use. No person other than an officer of STI is authorized to bind STI to any other warranty for any product for which this warranty is issued.

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Specified Technologies Inc.

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INSTALLATION INSTRUCTIONS

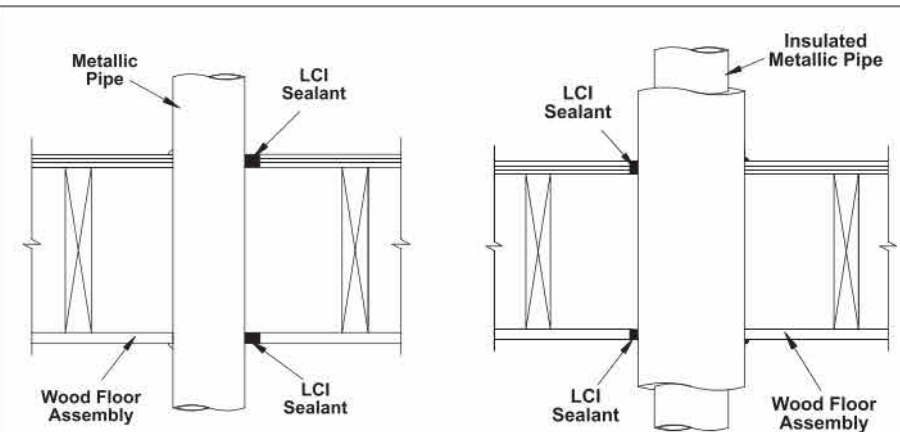
GENERAL: Areas to be protected must be clean and free of oil, loose dirt, rust or scale. Installation temperatures must be between 35°F (2°C) and 100°F (38°C). Allow product to dry a minimum of 24 hours before exposure to moisture.

SYSTEM SELECTION: Selection of an appropriate firestop system design is critical to the fire protection process. Space limitations preclude highly detailed information pertaining to individual application systems. Please consult the Product & Application Guide as well as the UL® Fire Resistance Directory for additional information.

FORMING: Some installations may require forming as either an integral part of the system or as an option to facilitate installation. In systems where forming is required, mineral wool batts with a minimum nominal density of 4 PCF (64 kg/m³) are generally required. Cut forming material oversize to allow for tight packing. Position forming material to allow for the proper depth of fill material.

FILL MATERIAL: SpecSeal® LCI Sealant may be installed by caulking using a standard caulking gun or from bulk containers using a bulk loading caulk gun, or by manually troweling using a mason's trowel or putty knife. If the sealant tends to pull back from a surface, clean the surface with a damp rag or sponge and reapply. Work sealant into all areas exercising care to eliminate voids or seams. The surface of the sealant can be smoothed using a putty knife dipped in water. Adding water to the sealant itself is not recommended. Sealant (when dry) may be painted using most non-solvent based paints.

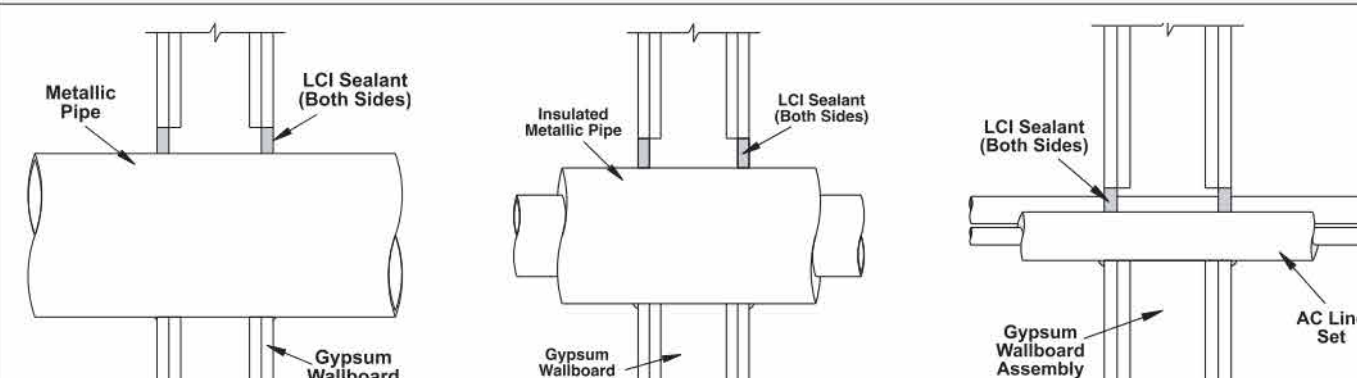
Fig. 4: BARE & INSULATED METALLIC PIPES - Wood Floor Assemblies



UL System No. F-C-1074
F Rating: 1 & 2 Hr • T Rating: 1/4, 1/2 and 1 Hr
Steel, Iron or Copper: 4" • Chase wall optional.
Annulus: 0" to 1" • Sealant: 5/8" bottom, 3/4" top

UL System No. F-C-5043
F Rating: 1 & 2 Hr • T Rating: 3/4 and 1 Hr
Steel, Iron or Copper: 4" • Chase wall optional.
Pipe covering: 1" Fiber Glass, Mineral fiber or AB/PVC • Chase wall optional.
Annulus: 0" to 1" • Sealant: 5/8" bottom, 3/4" top.

Fig. 5: BARE & INSULATED METALLIC PIPES - Gypsum Walls



UL System No. W-L-1222
F Rating: 1, 2 Hr • T Rating: 1/4, 3/4, 1 Hr
Steel or Iron pipe: 6", Copper pipe: 4"
Annulus: 0" to 2" • Sealant: 5/8"

UL System Nos. W-L-5121, W-L-5122
F Rating: 1, 2 Hr • T Rating: 1/4 Hr & 1 Hr
Steel or Iron pipe: 6", Copper pipe: 4"
Pipe covering: Max. 2" fiber glass, 3/4" AB/PVC or 2" mineral fiber.
Annulus: 0" to 1-1/2" • Sealant: 5/8"

UL System No. W-L-8025
F Rating: 1, 2 Hr • T Rating: 1/4 Hr
AC Line Set: Two copper tubes, one with 3/4" AB/PVC and thermostat wire.
Annulus: 0" to 1" • Sealant: 5/8"



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Project No.: 25-001

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Firestopping Details



310 Dodds Avenue
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Chattanooga, TN 37404
(423) 698-6675
Consulting Engineers MAA # 25141

FP0.2

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Revision Schedule			
Rev. Number	Rev. Date	Revision Description	

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Court Wing Fire
Protection Plan

FP1.1

FIRE SPRINKLER LEGEND

SYM.	ORIENTATION	COUNT
•	PENDENT - QUICK RESPONSE	86
▷	HORIZONTAL SIDE WALL - QUICK RESPONSE	1

ALL SPRINKLERS SHOWN ON THIS PLAN ARE TO BE NEW. EXISTING SPRINKLERS SHALL NOT BE RELOCATED OR REUSED. FIELD LOCATE SUPPLY AND CROSS MAINS, TIE ALL NEW SPRINKLERS INTO EXISTING SYSTEM

ALL SPRINKLERS IN SCOPE TO BE NEW UNLESS OTHERWISE NOTED TYP.

SHORT WALLS AT JUDGE'S BENCH

NEW PENDENT SPRINKLERS TYP..

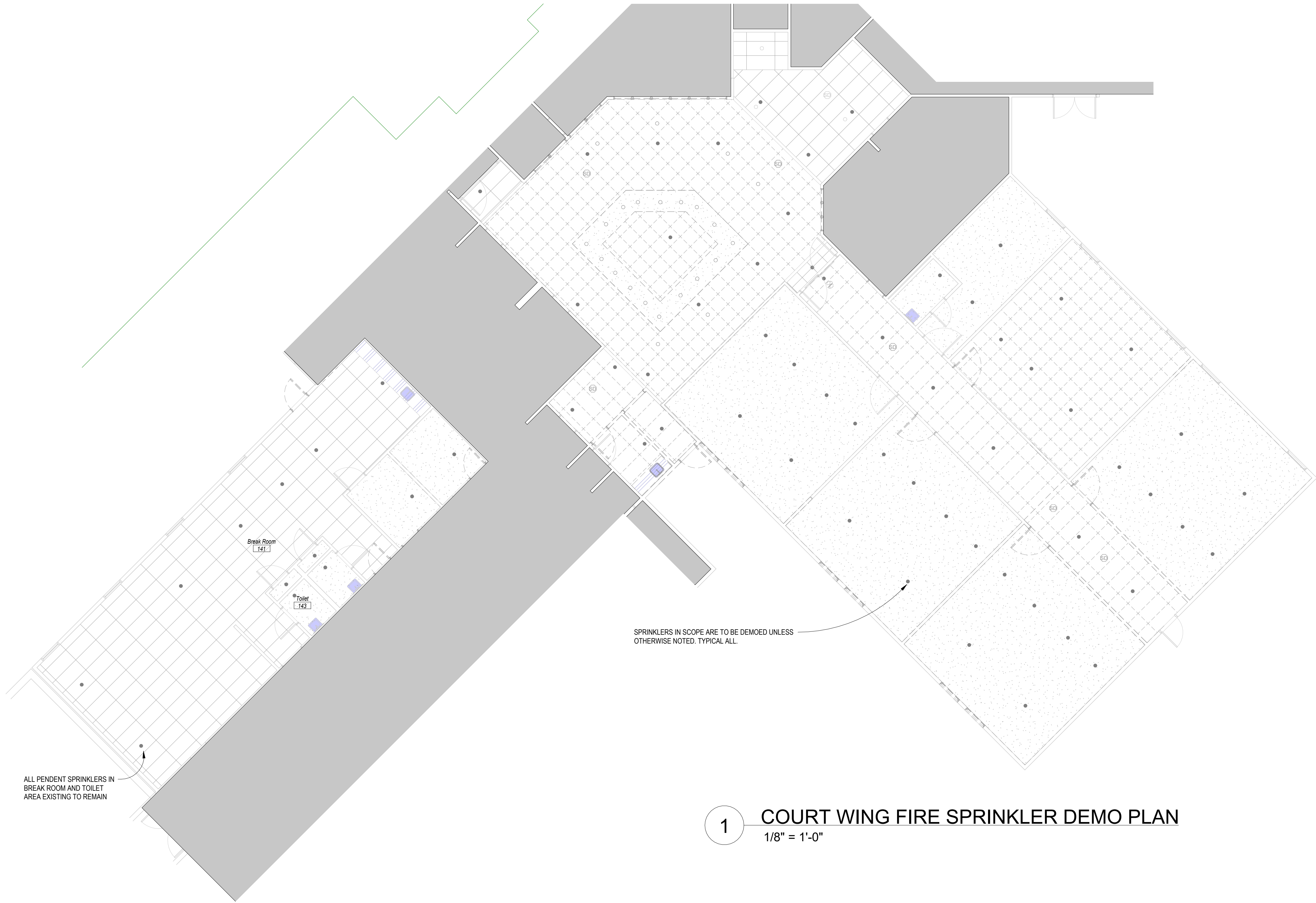
EXISTING PENDENT SPRINKLERS TO REMAIN TYP.

1

COURT WING FIRE SPRINKLER PLAN

1/8" = 1'-0"

KEY PLAN



FIRE SPRINKLER LEGEND		
SYM.	ORIENTATION	COUNT
•	PENDENT - QUICK RESPONSE	86
▷	HORIZONTAL SIDE WALL - QUICK RESPONSE	1

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1 COURT WING FIRE SPRINKLER DEMO PLAN
1/8" = 1'-0"

ALL PENDENT SPRINKLERS IN BREAK ROOM AND TOILET AREA EXISTING TO REMAIN

SPRINKLERS IN SCOPE ARE TO BE DEMOED UNLESS OTHERWISE NOTED. TYPICAL ALL.

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Court Wing Demo Fire Protection Plan

GENERAL ELECTRICAL PROJECT NOTES

GENERAL:

- VERIFY ALL DOOR SWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN LIGHT SWITCHES TO INSURE PROPER LOCATION. VERIFY ALL CASEWORK HEIGHTS TO INSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
- VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT OF ELECTRICAL AND OTHER TRADES BEFORE ROUGHING IN ELECTRICAL WORK. ALSO ADVISE OTHER TRADES OF THE LOCATIONS OF ELECTRICAL WORK WHICH WILL AFFECT THEIR WORK, PRIOR TO THE INSTALLATION OF THE ELECTRICAL WORK. COORDINATE LIGHT FIXTURE LOCATION WITH OTHER TRADES AND ARCHITECTURAL.
- ALL DIMENSIONS AFFECTING ELECTRICAL WORK ARE TO BE CAREFULLY CHECKED AND VERIFIED WITH THE GENERAL CONTRACTOR BEFORE ANY WORK IS DONE.
- UNLESS OTHERWISE NOTED IN THE WRITTEN SPECIFICATIONS OR ON THE DRAWINGS, ALL ELECTRICAL WORK AND ELECTRICAL EQUIPMENT ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR ALL THE FOLLOWING ELECTRICAL DEVICES OR SYSTEMS: FIRE ALARM, SWITCHGEAR, LIGHTING, WIRING DEVICES, PLASTIC RACEWAY & BOXES, FUSES, FIRESTOPPING, AND WIRE TO BE USED ON THE PROJECT. NOTE THAT NO ITEMS WILL BE REVIEWED UNTIL ALL SUBMITTALS ARE RECEIVED. CONTRACTOR RESPONSIBLE FOR PROJECT DELAYS DUE TO INCOMPLETE SUBMITTAL PACKAGES.
- FIRE WALL MEMBRANE PENETRATIONS SHALL CONFORM WITH ALL APPLICABLE CODES.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL ELECTRICAL DEVICES, WIRING, CONDUIT, BOXES, FITTINGS, ETC. FOR THE AREAS OF THE PROJECT SHOWN ON THE DRAWINGS TO BE DEMOLISHED AS PART OF THE PROJECT. FOR SUCH DEVICES, THE BOXES ARE TO BE REMOVED, CONDUIT IS TO BE REMOVED TO THE SOURCE OF THE POWER OR COMMUNICATIONS RUN SERVING THE BOX, OR TO THE NEXT UP/LINE DEVICE TO BE LEFT IN SERVICE. WIRING IS TO BE REMOVED BACK TO THE BREAKER IT ORIGINATES FROM OR TO THE COMMUNICATIONS PANEL OR THE FIRST UP/LINE DEVICE THAT IS TO REMAIN IN SERVICE ON THE AFFECTED POWER CIRCUIT OR COMMUNICATIONS RUN. DEMOLITION IS TO BE COMPLETE AND SYSTEMS/DEVICES WHICH ARE TO REMAIN IN SERVICE ARE TO BE LEFT IN WORKING ORDER AND UNDAMAGED. DEMOLITION WORK IS TO BE VERIFIED WITH THE ENGINEER PRIOR TO BID IF THERE ARE ANY QUESTIONS ABOUT THE SCOPE OF WORK REQUIRED.

WIRE/CONDUIT:

- ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUITS AND BOXES FOR THERMOSTAT AND SENSOR LOCATIONS. COORDINATE WITH MECHANICAL FOR LOCATIONS, MOUNTING HEIGHTS, BOXES, & CONDUIT SIZE. PROVIDE MEASURED PULL STRINGS. STUB OUT IN 1/2".
- PROVIDE MEASURED PULL STRINGS IN ALL CONDUIT TO BE LEFT EMPTY.
- ALL 120V, 20A HOMERUNS LESS THAN 80' TO BE #12, USE #10 FOR GREATER LENGTHS.
- PROVIDE SEPARATE CONDUIT WIRES FOR ALL CIRCUITS. NO RACEWAY GROUNDS.
- CONTRACTOR IS REQUIRED TO PROVIDE CONDUIT SLEEVE PENETRATIONS THRU RATED WALLS FOR USE BY HIMSELF AND OTHER TRADES. COORDINATE SIZE AND LOCATION OF CONDUITS REQUIRED BY OTHER TRADES. THE INTERIOR OF ALL CONDUIT SLEEVES PENETRATING RATED WALLS ARE TO BE SEALED AROUND WIRING AND TO THE INTERIOR OF THE CONDUIT AT EACH END WITH FIRE STOP MATERIAL TO PRESERVE THE RATING INTEGRITY OF THE WALL; SEALING IS TO BE DONE ONLY AFTER ALL WIRING IS COMPLETE BOTH BY THE ELECTRICAL CONTRACTOR AND OWNER.
- CONDUIT ROUTING IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ROUTING SHOWN ON THESE DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. THE ONLY EXCEPTION TO THIS IS THAT NO SURFACE MOUNTED CONDUIT WILL BE PROVIDED EXCEPT AS INDICATED ON THESE DRAWINGS UNLESS APPROVAL IS GIVEN BY OWNERS REP OR ENGINEER. CONDUIT SIZES INDICATED ON THESE DRAWINGS ARE MINIMUM SIZES FOR INDIVIDUAL HOMERUNS. COMBINATION OF HOME RUN CIRCUITRY INTO A SINGLE CONDUIT IN LIEU OF THE SEPARATE CONDUIT RUNS SHOWN ON THE DRAWINGS, IN KEEPING WITH THE REQUIREMENTS OF THE NEC AS TO CONDUIT FILL AND SIZING, MAY BE ALLOWED FOR THE PROJECT'S BENEFIT IF APPROVED BY THE ENGINEER PRIOR TO WORK BEING DONE. IF FIELD CONDITIONS DO NOT ALLOW THE LARGE RUNS OF CONDUIT CALLED FOR ON THE DRAWINGS FOR A PARTICULAR CIRCUIT, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER FOR A SOLUTION PRIOR TO WORK BEING DONE. CONTRACTOR IS TO PUNCH THRU EXISTING WALLS WITH CONDUIT RUNS AS REQUIRED BY FIELD CONDITIONS. LOCATE WALL PENETRATIONS ABOVE FUTURE CEILING AREAS UNLESS OTHERWISE INDICATED. FIRE STOP AS REQUIRED.
- CONTRACTOR TO RUN ALL POLYPHASE CIRCUITRY IN CONDUIT. ALL WIRING AND CONDUITS IN PLENUM SPACES TO BE PLENUM RATED.
- PVC CONDUIT MAY BE USED IN THE SLAB IF ROUTED SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES AND IF APPROVAL IS GIVEN BY THE ENGINEER AND THE ARCHITECT/OWNER PRIOR TO INSTALLATION.

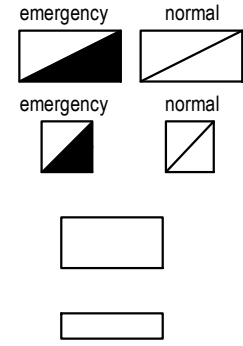
POWER/SYSTEMS:

- ALL BOXES FOR POWER AND/OR COMMUNICATION DEVICES SHALL BE LOCATED 16" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED.
- OUTLETS ON BACK TO BACK WALL SURFACES BETWEEN ROOMS SHALL BE HORIZONTALLY SEPARATED BY 6" MIN. NO BACK TO BACK INSTALLATION OF BOXES ON THESE WALLS IS ALLOWED. IF THE SUBJECT WALLS ARE FIRE RATED, THE BOXES MUST BE WRAPPED IN FIRE RATED SHEETROCK BOXES SO THAT THE WALL FIRE RATING IS NOT AFFECTED BY THE PENETRATION.
- ALL COMMUNICATIONS SYSTEMS ARE TO BE PROVIDED BY OWNER. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONDUIT AND STANDARD BACK BOXES IDENTIFIED IN ELECTRICAL DOCUMENTS.
- VERIFY LOCATION OF ALL TV ELECTRICAL AND CABLE CONNECTIONS WITH ARCHITECT PRIOR TO DOING ANY WORK. ELECTRICAL CONTRACTOR RESPONSIBLE FOR ANY COST ASSOCIATED WITH RELOCATING ELECTRICAL AND CABLE CONNECTIONS DUE TO FAILURE TO COORDINATE WITH ARCHITECT.

LIGHTING:

- CONTRACTOR IS TO VERIFY LIGHT FIXTURE COLOR/FINISHES WITH ARCHITECT PRIOR TO ORDER.
- ALL LIGHT FIXTURES ARE TO BE CHECKED BEFORE ROUGHING IN TO INSURE THAT THEY CAN BE MOUNTED AS DIRECTED BY THE DRAWINGS AND THAT THERE IS ENOUGH SPACE TO ALLOW SUCH.
- RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR BE LISTED FOR USE IN A RATED ASSEMBLY.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION OF HIS LIGHT FIXTURES WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.
- PROVIDE PHOTOCELL ON ROOF FOR SWITCHING OF EXTERIOR LIGHTING. SWITCH THRU TIMECLOCK ALSO PROVIDED BY CONTRACTOR.

ELECTRICAL SYMBOLS LEGEND



2x4 RECESSED MOUNTED LED LIGHTING FIXTURE. SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY GENERATOR

2X2 RECESSED MOUNTED LED LIGHTING FIXTURE. SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY GENERATOR

2x4 SURFACE MOUNTED LED LIGHTING FIXTURE.

1'X4 SURFACE MOUNTED LED LIGHTING FIXTURE

RECESSED LED DOWNLIGHT. SEE FIXTURE SCHEDULE FOR APERTURE SIZE AND LAMP TYPE.

WALL MOUNTED LED EMERGENCY LIGHTING FIXTURE.

EXTERIOR WALL MOUNT LED LIGHTING FIXTURE

EXIT SIGN. SEE LIGHTING SCHEDULE FOR INCLUSION OF EMERGENCY BATTERY PACKS. SHADING INDICATES NUMBER AND ORIENTATION OF FACES UNIVERSAL MOUNTING KIT. ARROW INDICATES PROVIDE KNOCKOUT FOR DIRECTIONAL ARROW IN THE DIRECTION SHOWN.

WALL MOUNTED SWITCH, MOUNT 48" A.F.F. UNLESS OTHERWISE NOTED. NUMBER INDICATES TYPE (3-WAY, ETC.), PROVIDE WITH SUITABLE FACEPLATES.
"D" INDICATES SINGLE POLE 0-10V DIMMER WITH TOGGLE AND PRESET SELECTOR
"K" INDICATES KEY LOCK TYPE SWITCH, PROVIDE P&S 20AC(1) OR (3) LAL
"L1" INDICATE LOW VOLTAGE SWITCH - ACUTY BRAND - nLIGHT #RP0DB DX GY G2 (VERIFY COLOR PRIOR TO ORDERING)
"M" WALL SWITCH WITH MOTION ACTIVATED SENSOR.
"MD" WALL SWITCH WITH MOTION ACTIVATED SENSOR AND 0-10V DIMMING.

PANELBOARDS; RECESSED OR SURFACE MOUNTED AS NOTED IN PANEL SCHEDULE. UNLESS OTHERWISE NECESSARY BY HEIGHT OF CABINET, MOUNT SO THAT TOP IS AT 6'-0" A.F.F.. 3'-0" HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM FLOOR TO CEILING IN FRONT OF ELECTRICAL PANELS.

HOMERUN TO PANELBOARD IN CONDUIT. LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT NUMBER. CROSS HATCHES INDICATE NUMBER OF CONDUCTORS TO BE #12 AWG UNLESS OTHERWISE NOTED. ALSO PROVIDE PHASE WIRES. LONG LINE INDICATES NEUTRAL. SEPARATE GROUND WIRES FOR ALL CIRCUITS, SIZE PER NEC.

CONDUIT IN FLOOR SLAB OR UNDERGROUND, 3/4" UNLESS OTHERWISE NOTED.

CONDUIT CONCEALED IN WALL OR CEILING, 3/4" UNLESS OTHERWISE NOTED.

JUNCTION BOX, SIZE AND USE AS REQUIRED.

JUNCTION BOX FOR UNIT HEATER CONNECTION. FIELD COORDINATE LOCATION AND PROVIDE 120V POWER CONNECTION AND 20A MOTOR RATED SWITCH FOR DISCONNECTING MEANS

DISCONNECT SWITCH. ALL TO BE HEAVY DUTY. FUSE SIZE SHOWN ON DRAWINGS.

DUPLEX RECEPTACLE OUTLET MOUNTED 18" A.F.F. TO CENTER OF BOX. PROVIDE P&S #CRB-5362BACK AND SIDE WIRED RECEPTACLES. "C" INDICATES MOUNTING AT COUNTER TOP HEIGHT, 6" ABOVE BACKSPLASH, VERIFY COUNTER HEIGHTS WITH ARCHITECT PRIOR TO DOING ANY WORK.

"WP" INDICATES A WEATHERPROOF DEVICE MOUNTED HORIZONTALLY. P&S #CA8-GH. OUTDOOR DEVICES NOT UNDER BUILDING EAVES TO BE MOUNTED IN T&B WTSD 15A-C.
"G" INDICATES GROUND FAULT PROTECTED DEVICE (P&S#2094) OR BREAKER (SEE PANEL SCH.).
GROUNDS TO LOCATED UP ON ALL RECEPTACLES.

THE USE OF P&S #PT5362 QUICK PLUG TAIL RECEPTACLES ARE ALLOWED IN LIEU OF CRB-5362 DEVICES AS A LABOR SAVING FEATURE.

COMMUNICATIONS OUTLET, MOUNT AT 18" A.F.F. TO CENTER OF BOX, UNLESS OTHERWISE SHOWN.

SPECIAL PURPOSE RECEPTACLE. CONTRACTOR TO PROVIDE RECEPTACLE TO MATCH NEMA CONFIGURATION OF CORD & PLUG OF DEVICE TO BE PLUGGED INTO RECEPTACLE. "C" INDICATES MOUNTING AT COUNTER TOP HEIGHT, 6" ABOVE BACKSPLASH.

RECEPTACLE. 40A 208V UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE RECEPTACLE TO MATCH NEMA CONFIGURATION OF CORD & PLUG OF DEVICE TO BE PLUGGED INTO RECEPTACLE.

CABLE TELEVISION CONNECTION. PROVIDE EMPTY SINGLE GANG BOX IN WALL AT SAME HEIGHT AS RECEPTACLES. STUB OUT ABOVE CEILING IN 3/4". PROVIDE RECEPTACLE AND EMPTY BOX UNDER SINGLE COVERPLATE.

20A MOTOR RATED SWITCH. PROVIDE P&S #PS20AC1 WITH CROUSE-HINDS #TP403 (BOX) & #TP512 (COVER) & P&S #7801-P (HANDLE LOCKING GUARD).

20A WEATHERPROOF MOTOR RATED SWITCH. PROVIDE P&S#PS20AC1 WITH #WPB33 (BOX) & #WIUC10-CL (COVER).

30A MOTOR RATED SWITCH. PROVIDE P&S#7812-P (INCLUDES P&S #7802 SWITCH IN A NEMA 1 ENCLOSURE).

30A WEATHERPROOF MOTOR RATED SWITCH. PROVIDE P&S#7832 (LOCKING NEMA 3R BOX WITH P&S #7802 SWITCH).

FLOOR BOX OR FIRE RATED POKE THROUGH DEVICE. 2 GANG BOX FOR POWER AND COMMUNICATIONS.

FLOOR BOX. 1 GANG BOX FOR POWER ONLY. PROVIDE WITH DUPLEX RECEPTACLE AND COVERPLATE SUITABLE FOR CARPET INSTALLATION.

EMERGENCY LIGHTING CONTROL UNIT (ELCU). IOTA #ETS20 OR APPROVED EQUAL. SEE WIRING DIAGRAM THIS SHEET.

DIMMING POWER PACK FOR NORMAL POWER CIRCUITS - ACUTY BRAND - nLIGHT #RPP20 D G2

DIMMING POWER PACK FOR EMERGENCY POWER CIRCUITS - ACUTY BRAND - nLIGHT #RPP20 D ER G2

OCCUPANCY SENSOR - ACUTY BRAND - nLIGHT #RCMS PDT 10

LEGEND NOTES:

- ALL WIRING DEVICES AND COVERPLATES ARE TO BE WHITE IN COLOR UNLESS OTHERWISE NOTED BY ARCHITECT.
- ALL WALL PLATES TO BE NYLON AND NOT THERMOSET IN FINISHED AREAS. PROVIDE STANLESS STEEL COVER PLATES IN NON-FINISHED AREAS, UTILITY TYPE SPACES AND MECHANICAL SPACES.

Lighting Fixture Schedule

Type	Load	MFG	Model	Description
A	35 VA	Acuity Brands Lighting	CPX 2X4 ALO8 (Mid) 80CRI SSW7 (40K) SWL MVOLT	2X4 LED FLAT PANEL, Switchable Lumens, White 40K, 4300LM, 80CRI, Switchable White 40K, Satin White, 120-277V
AE	35 VA	Acuity Brands Lighting	CPX 2X4 ALO8 (Mid) 80CRI SSW7 (40K) SWL MVOLT (Connected to Emerg. Generator)	2X4 LED FLAT PANEL, Switchable Lumens, White 40K, 5500LM, 80CRI, Switchable White 40K, Satin White, 120-277V
B	26 VA	Acuity Brands Lighting	CPX 2X2 ALO7 (Mid) 80CRI SSW7 (40K) SWL MVOLT	2X2 LED FLAT PANEL, Switchable Lumens, White 40K, 3200LM, 80CRI, Switchable White 40K, Satin White, 120-277V
BE	26 VA	Acuity Brands Lighting	CPX 2X2 ALO7 (Mid) 80CRI SSW7 (40K) SWL MVOLT (Connected to Emerg. Generator)	2X2 LED FLAT PANEL, Switchable Lumens, White 40K, 3200LM, 80CRI, Switchable White 40K, Satin White, 120-277V
C	35 VA	Acuity Brands Lighting	CPX 2X4 ALO8 (Mid) 80CRI SSW7 (40K) SWL MVOLT	2X4 LED FLAT PANEL, Switchable Lumens, White 40K, 3500LM, 80CRI, Switchable White 40K, Satin White, 120-277V
CE	35 VA	Acuity Brands Lighting	CPX 2X4 ALO8 (Mid) 80CRI SSW7 (40K) SWL MVOLT (Connected to Emerg. Generator)	2X4 LED FLAT PANEL, Switchable Lumens, White 40K, 3500LM, 80CRI, Switchable White 40K, Satin White, 120-277V
EM	2 VA	Acuity Brands Lighting	EU2C SD	EMERGENCY LIGHT WITH 2 LED LIGHTS SELF DIAGNOSTICS
WL1	11 VA	Acuity Brands Lighting	ARC1 LED P2 40K MVOLT PE FAO DBLXD	LED WALL PACK, 2000 Lumens, 40K, Button Type Photocell, Field Adjustable Light Output, 120-277V, black finish
X1C	2 VA	Acuity Brands Lighting	LQM S W 1 R 120/277	SINGLE FACE EXIT SIGN, WHITE PLASTIC HOUSING, UNIVERSAL MOUNTING,
XC2	2 VA	Acuity Brands Lighting	LQM S W 3 R 120/277	DOUBLE FACE, EXIT SIGN, WHITE PLASTIC HOUSING, UNIVERSAL MOUNTING, FIELD COORDINATE DIRECTIONAL ARROWS AS PER LOCATION INSTALLED.

SCHEDULE NOTES:

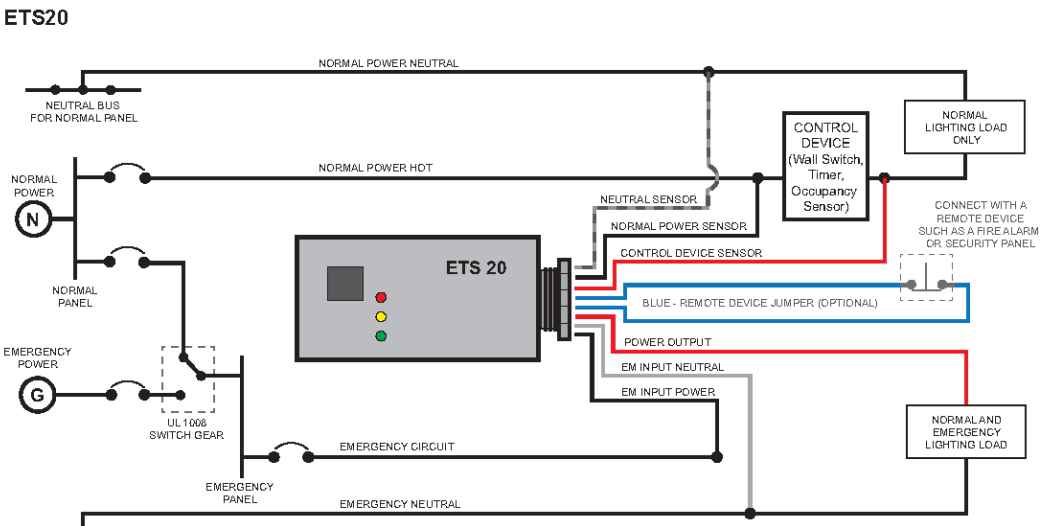
- CONTACT BRAD WHEELUS WITH LIGHTING TRENDS AT 423-287-5968 (OFFICE) - BRAD@LTGTRENDS.COM (EMAIL) FOR ASSISTANCE WITH ALL LIGHTING FIXTURES ON THIS PROJECT.
- ALL FINISH, TRIM, AND COLOR SELECTIONS BY ARCHITECT.

HVAC Unit Wiring Table

Type Mark	MCA	Wire	Ground	Conduit	Disconnect	FUSE	Enclosure	Volts	Phase	Breaker
EF-1		#12	#12	3/4"	FACTORY INSTALLED		NEMA 1	120 V	1	
RTU-1	36.0 A	#8	#10	3/4	60A NON-FUSED		NEMA 3R	208 V	3	50A/3P
RTU-2	62.0 A	#4	#8	1"	100A NON-FUSED		NEMA 3R	208 V	3	80A/3P

TABLE NOTES:

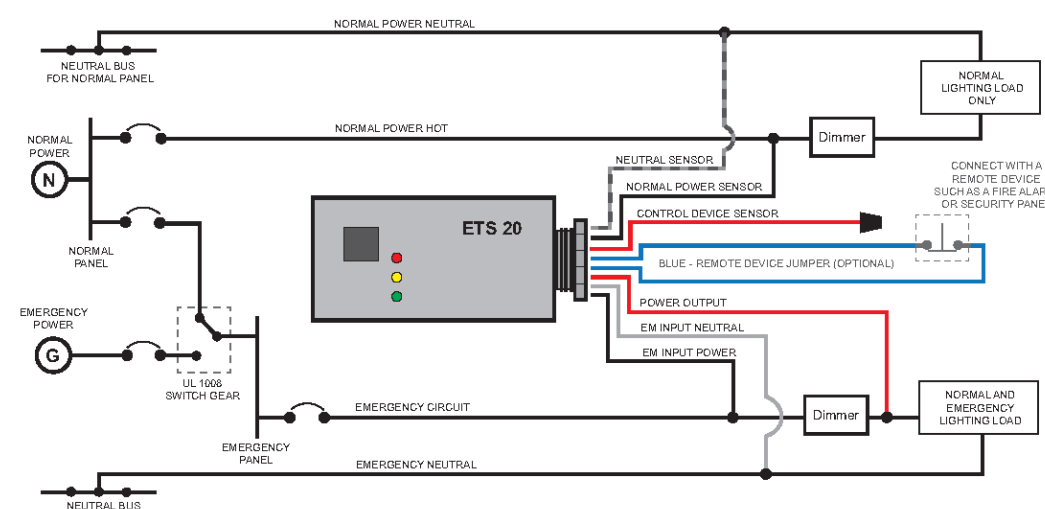
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.
- PROVIDE NEUTRALS AS REQUIRED, FIELD VERIFY.
- ALL DISCONNECTS 100 A & BELOW ARE TO BE GENERAL DUTY AND 200 A & ABOVE ARE TO BE HEAVY DUTY.
- IF UNIT IS TO BE SUPPLIED WITH A FACTORY MOUNTED AND WIRED NON-FUSED DISCONNECT SWITCH, CONTRACTOR IS TO WIRE TO SWITCH AS PER MANUFACTURER SPECS.



Typical Application

During presence of normal power, the ETS20 senses the setting of the ON/OFF control device through the red wire (Control Device Sensor) and operates the Normal/EM mode accordingly. When normal power is lost, the ETS20 allows operation of the Normal/EM load at full output from the auxiliary supply, regardless of control device status.

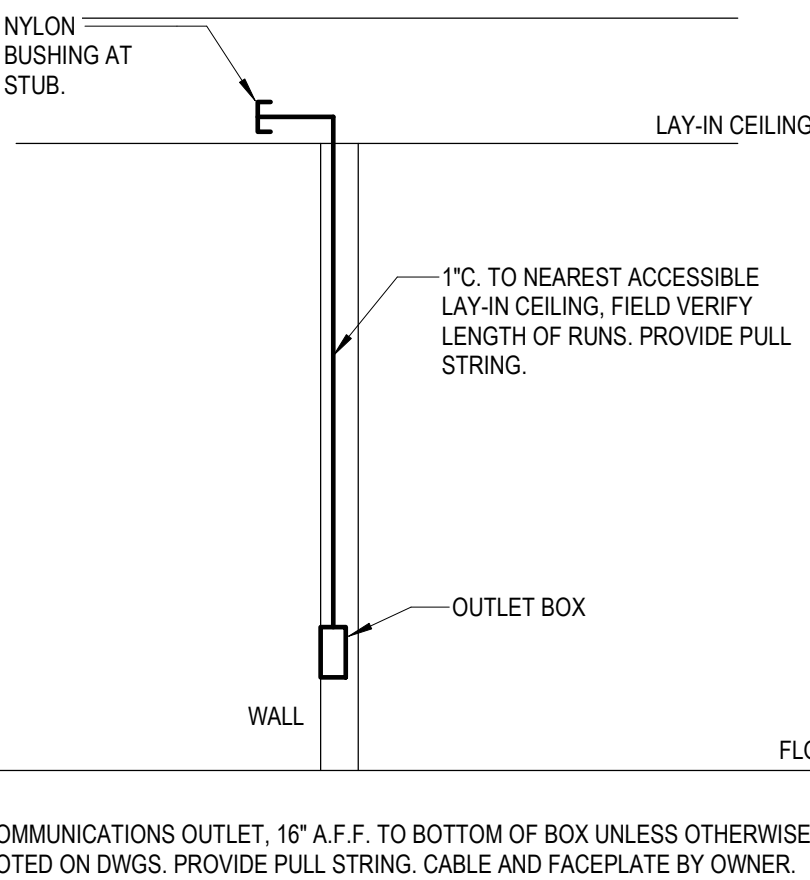
ETS20 with dimmer controls



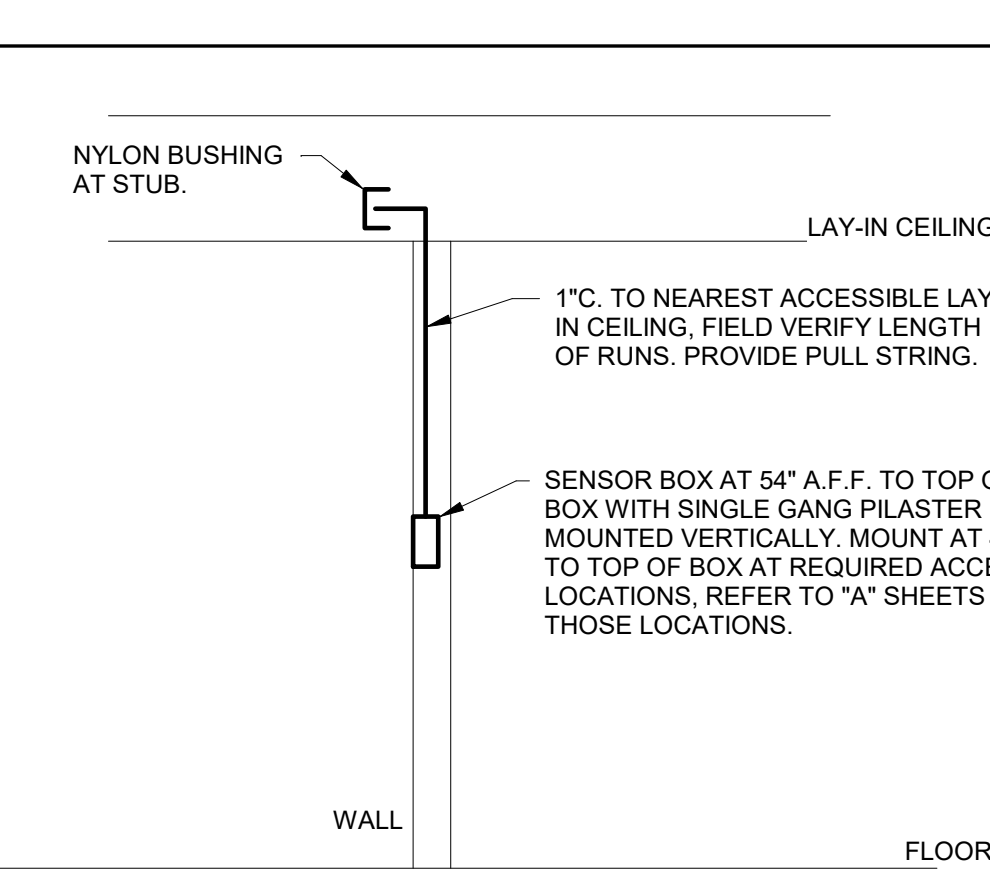
Normal/EM Dimmer Control

The ETS20 can be used with dimming applications by adding a second dimmer device to the designated EM circuit. In this scenario, both the EM circuit and ETS20 power output are connected to the load. The red Control Device Sensor of the ETS20 remains disconnected and there is no power output from the ETS20 unless normal AC power is lost. If emergency power is activated, the ETS20 will then route power around the dimmer on the EM circuit.

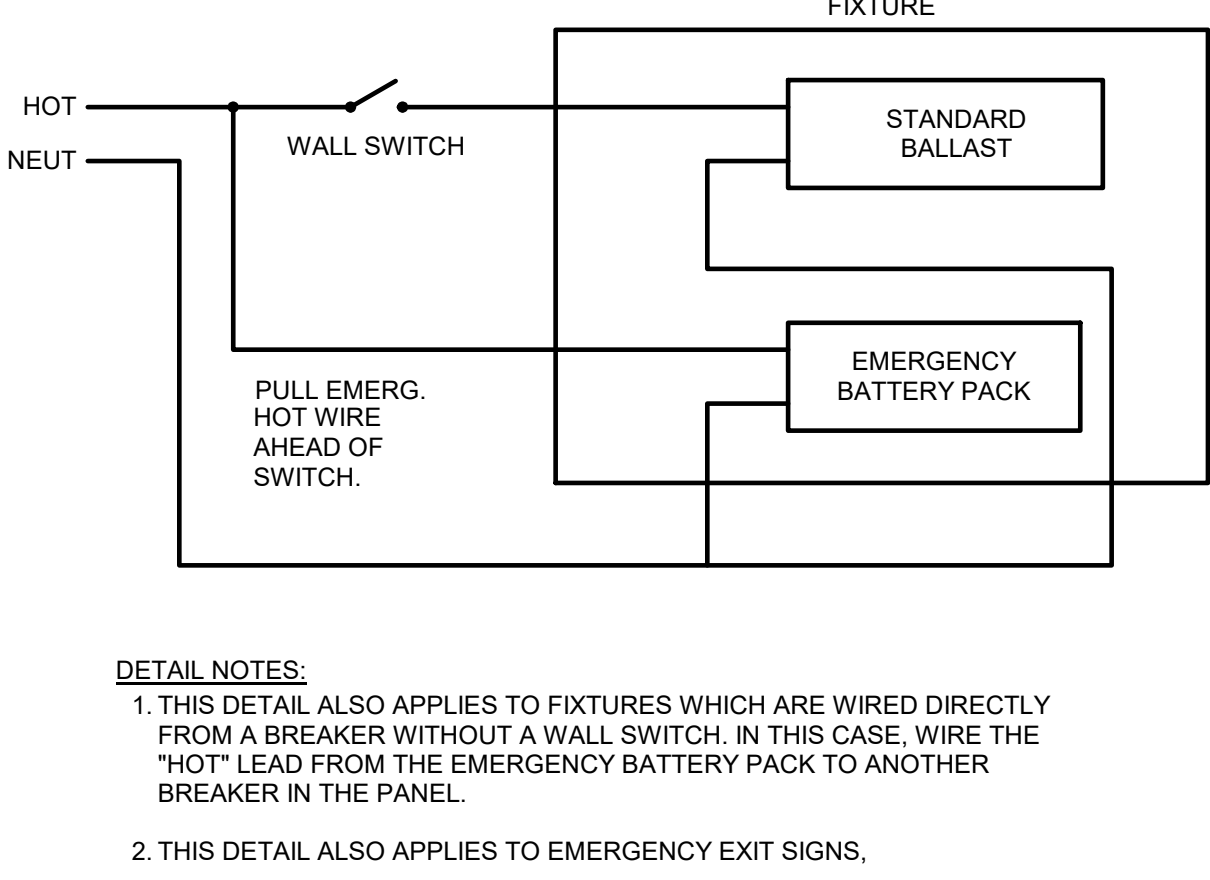
EMERGENCY LIGHTING CONTROL UNIT (ELCU) WIRING DIAGRAM



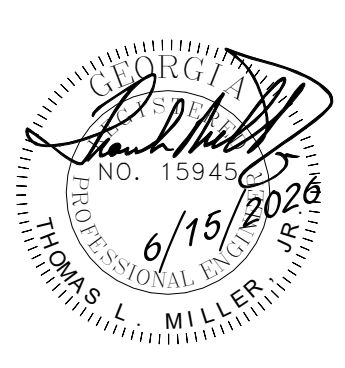
1 COMMUNICATION WALL OUTLET DETAIL
SCALE: N.T.S.



2 THERMOSTAT BOX INSTALLATION DETAIL
SCALE: 12" = 1'-0"



3 EMERGENCY FIXTURE WIRING DETAIL
SCALE: 12" = 1'-0"



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Fort Oglethorpe
Courts Renovation

500 City Hall Drive
Fort Oglethorpe Georgia 30742

Revision Schedule

Rev. Number	Rev. Date	Revision Description
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Sheet List

Sheet Number	Sheet Name
E0.1	ELECT. PROJ. SCHED & NOTES
E0.2	FIRE ALARM & SECURITY NOTES AND DETAILS
E0.3	FIRESTOP DETAILS
E0.4	ELECTRICAL SPECIFICATIONS
E1.1	LIGHTING PLAN
E2.1	POWER PLAN
E2.2	ROOF POWER PLAN
E3.1	FIRE ALARM - SECURITY PLANS
ED1.1	LIGHTING DEMOLITION PLAN
ED2.1	POWER DEMOLITION PLAN
ED2.2	ROOF POWER DEMOLITION PLAN
ED3.1	FIRE ALARM - SECURITY DEMOLITION PLAN

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Release Date: 6/15/2026

Project No.: 25-001

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Edmund Goode Garbee Architect

ELECT. PROJ. SCHED
& NOTES



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E0.1

FIRE ALARM SYSTEM NOTES

GENERAL:

1. THE FIRE ALARM SYSTEM IS AN EXISTING INTELLIGENT, ADDRESSABLE PANEL WITH DRIFT COMPENSATION AND SENSITIVITY TESTING CAPABILITIES. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL 'SHOP DRAWINGS', PERMITS, AND INSPECTIONS ASSOCIATED WITH THE FIRE ALARM SYSTEM TO THE FIRE MARSHALS OFFICE FOR REVIEW AND APPROVAL BEFORE WORK BEGINS. THE FIRE ALARM SYSTEM MUST BE INSTALLED BY A CONTRACTOR WHOM IS CERTIFIED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. CALL FIRE MARSHALS OFFICE FOR ONSITE DURING INSTALLATION. RECORD OF COMPLIANCE WILL BE REQUIRED.
2. INCLUDE MONEY IN THE CONTRACT FOR THE FIRE ALARM INSTALLER TO RETURN TO THE JOB SITE AFTER COMPLETION OF HIS INSTALLATION TO PERFORM SYSTEM PROGRAMMING IN CONJUNCTION WITH THE OWNER'S MONITORING SERVICE TEAM, AS PER THEIR SCHEDULE.
3. PROVIDE BATTERY BACKUP FOR FIRE ALARM PANEL. BATTERY TO BE CAPABLE OF GENERATING FULL ALARM FOR 5 MINUTES AFTER A PERIOD OF 24 HRS OF CONTINUOUS POWER OUTAGE. SUBMIT BATTERY CALCS WITH SHOP DRAWINGS FOR ENGINEERS REVIEW.
4. SURGE SUPPRESSION SHALL BE SUPPLIED AT ALL LOCATIONS WHERE FIRE ALARM CABLING EXITS OR ENTERS THE BUILDING. CONTRACTOR TO PROVIDE DITEK SURGE PROTECTION ON BOTH 120V & TELEPHONE LINE. PROVIDE SHOP DRAWING CUT SHEETS FOR REVIEW. THIS IS A REJECTABLE ITEM.
5. PROVIDE SYNCHRONIZATION MODULE AND CONNECT TO ALL STROBE LIGHTS. PANEL MUST BE ABLE TO FLASH LIGHTS WHILE SILENCING HORNS OR SPEAKERS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE WRITTEN RESULTS OF SENSITIVITY TESTING OF ALL FIRE ALARM DETECTION DEVICES TO THE LOCAL FIRE MARSHALL AND THE OWNER.
7. POWER BOOSTERS AND EXTENDERS FOR FIRE ALARM(NAC DEVICES) ARE TO BE PROVIDED AS REQUIRED.
8. SYSTEM IS TO BE PROVIDED WITH UNIVERSAL DIGITAL ALARM COMMUNICATOR (UDACT) FOR OFF SITE ALARM NOTIFICATION AND MONITORING THAT IS COMPATIBLE WITH ADT MONITOR SERVICE. DIALER IS TO IDENTIFY THE SPECIFIC POINT IN ALARM. PROVIDE NAMES & DESCRIPTIONS FOR ALL POINTS AND PROVIDE TO OWNER'S MONITOR SERVICE. LIST TO BE INSPECTED BY ENGINEER AT FINAL PUNCH. UDACT TO PROVIDE INDIVIDUAL POINT ANNUNCIATION. THE OWNER IS RESPONSIBLE FOR SECURING THE ACTUAL SERVICE. CONTRACTOR WILL BRING PHONE LINES TO PANEL FOR PURPOSES OF OBTAINING A C.O.. IF THE OWNERS TELEPHONE NETWORK IS VOIP, THEN OWNER IS TO PROVIDE DEDICATED POTS LINES FOR DIALER, OR PAY FIRE CONTRACTOR TO INSTALL A TWO NETWORK ADAPTORS FOR PHONE LINES AT FACP. PROVIDE CELLULAR PHONE DIALER INSTEAD IF REQUIRED BY THE FIRE MARSHAL OR THE OWNER.

DEVICES:

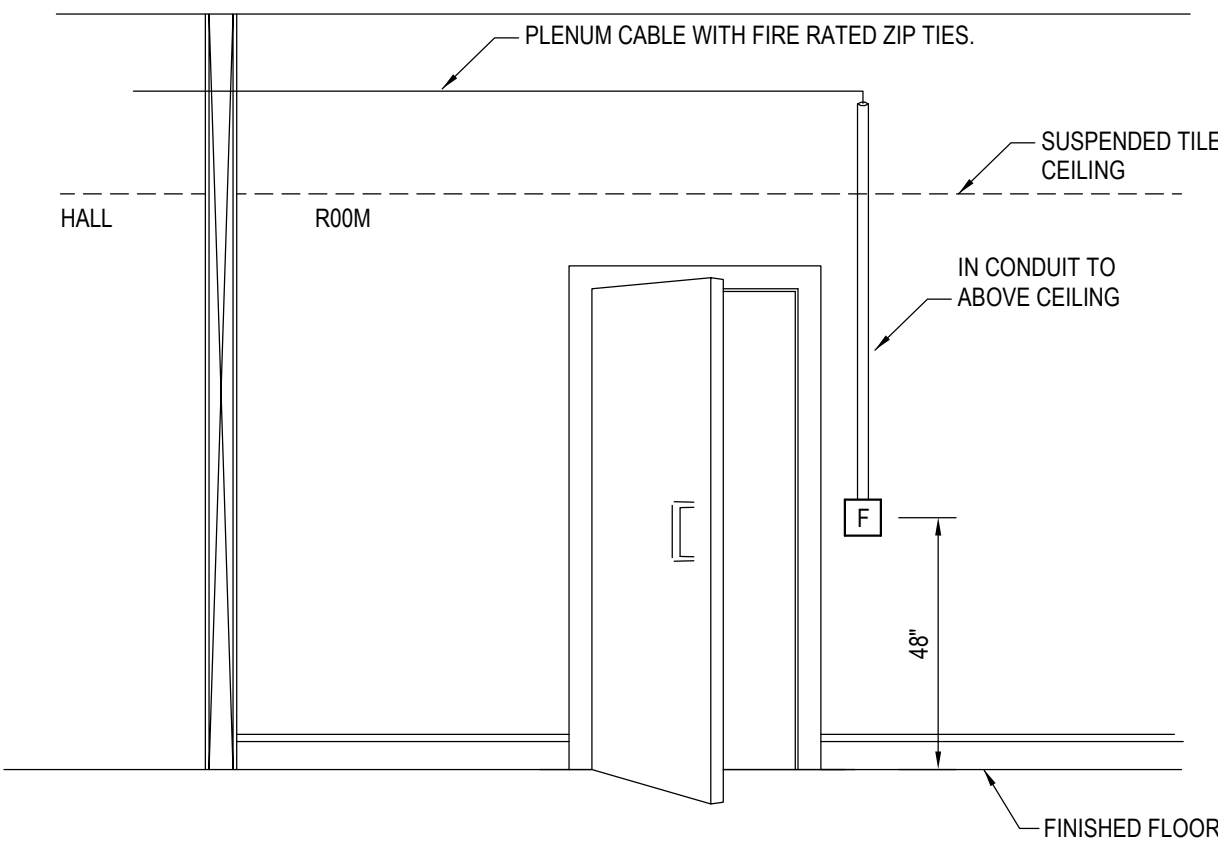
1. NOTIFICATION DEVICES TO BE WHITE IN COLOR UNLESS NOT ALLOWED BY THE LOCAL FIRE MARSHALL.
2. ALL NOTIFICATION DEVICES ARE TO BE OF SAME MANUFACTURER AS FIRE ALARM CONTROL PANEL UNLESS OTHERWISE INDICATED BY PART NUMBERS ON DRAWING.
3. THE FIRE ALARM CONTRACTOR SHALL PROVIDE ALL HVAC DUCT DETECTORS TO MATCH FIRE ALARM SYSTEM. HE SHALL INSTALL ALL DUCT DETECTORS AND TIE THEM TO THE FACP. COORDINATE LOCATIONS WITH MECHANICAL & CONTROLS CONTRACTORS. HE SHALL CONTRACT WITH THE MECHANICAL CONTROLS CONTRACTOR TO WIRE THE HVAC UNIT SHUTDOWN TO THE DUCT DETECTOR. ELECTRICAL CONTRACTOR IS SOLELY RESPONSIBLE FOR DUCT DETECTOR WORK. PROVIDE WALL MOUNTED TEST SWITCH FOR DEVICE AT LOCATION DIRECTED BY FACILITIES MANAGER. ALL HVAC UNITS RATED OVER 2000 CFM OR UNITS SERVING AN EGRESS CORRIDOR ARE TO HAVE ONE DUCT DETECTOR LOCATED IN EITHER THE SUPPLY OR RETURN AIR DUCTS. IF MORE THAN ONE UNIT SERVES HALLWAY BUT LESS THAN 2000 CFM EACH, TIE TO HALLWAY SMOKES SO THAT IF SMOKE IS DETECTOR. AN ADDRESSABLE MODULE AT EACH UNIT WILL SHUT DOWN EACH UNIT. NO DUCT DETECTOR NEEDED IN THIS CASE.
4. TO ENSURE THAT EACH SMOKE DETECTOR IS OPERATIVE, ALL CEILING AND AIR DUCT SMOKE DETECTORS SHALL BE TESTED IN PLACE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SENSITIVITY SHALL ALSO BE DETERMINED FOR EACH SMOKE DETECTOR IN ACCORDANCE WITH NFPA-72. A CERTIFICATION REPORT SIGNED BY THE INSTALLING CONTRACTOR SHALL BE SUBMITTED AT THE FINAL INSPECTION LISTING EACH SMOKE DETECTOR AND THE TEST METHOD USED TO OBTAIN THE MANUFACTURER'S CALIBRATED SENSITIVITY. INSTALLING CONTRACTOR TO PROVIDE ALL SHOP DRAWINGS FOR APPROVALS, PERMITS, INSPECTIONS AND TEST ENTIRE SYSTEM AND PROVIDE OWNER WITH AFFIDAVIT OF CERTIFICATION OF INSPECTION AND TESTING.
5. ANY HOLD OPEN DEVICES ARE TO BE ELECTROMAGNETIC. PROVIDE RECESSED BOXES & EXTENDERS AS REQUIRED.

INSTALLATION:

1. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" A.F.F. AND NOT GREATER THAN 96" A.F.F..
2. VERIFY LOCATIONS AND HEIGHTS OF ALL FIRE ALARM DEVICES WITH LOCAL FIRE MARSHALL PRIOR TO INSTALLATION.
3. IN ACCORDANCE WITH NFPA-72, A 2-3, 5.1, NO SMOKE DETECTORS ARE TO BE LOCATED WITHIN 3FT OF A SUPPLY OR RETURN HVAC GRILL OR NOT IN THE PATH OF DIRECT AIR DISCHARGE FROM A SIDE WALL MOUNTED GRILL.
4. PROVIDE FOR EACH DEVICE OUTLET BOXES, BACKBONES, CONDUIT STUBS TO ABOVE CEILINGS OR UP TO STRUCTURE IF NO CEILING. ALL WIRING ABOVE CEILING AREA IS TO BE INSTALLED IN WIRE WAYS OR MANAGED BY WIRING HOOKS AND STRAPS, ETC. NO WIRING IS TO BE RUN ON THE CEILING STRUCTURE. ZIP TIES ARE TO BE PLENUM RATED. ROUTE ALL WIRING PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE.
5. WIRING TO BE CLASS B.

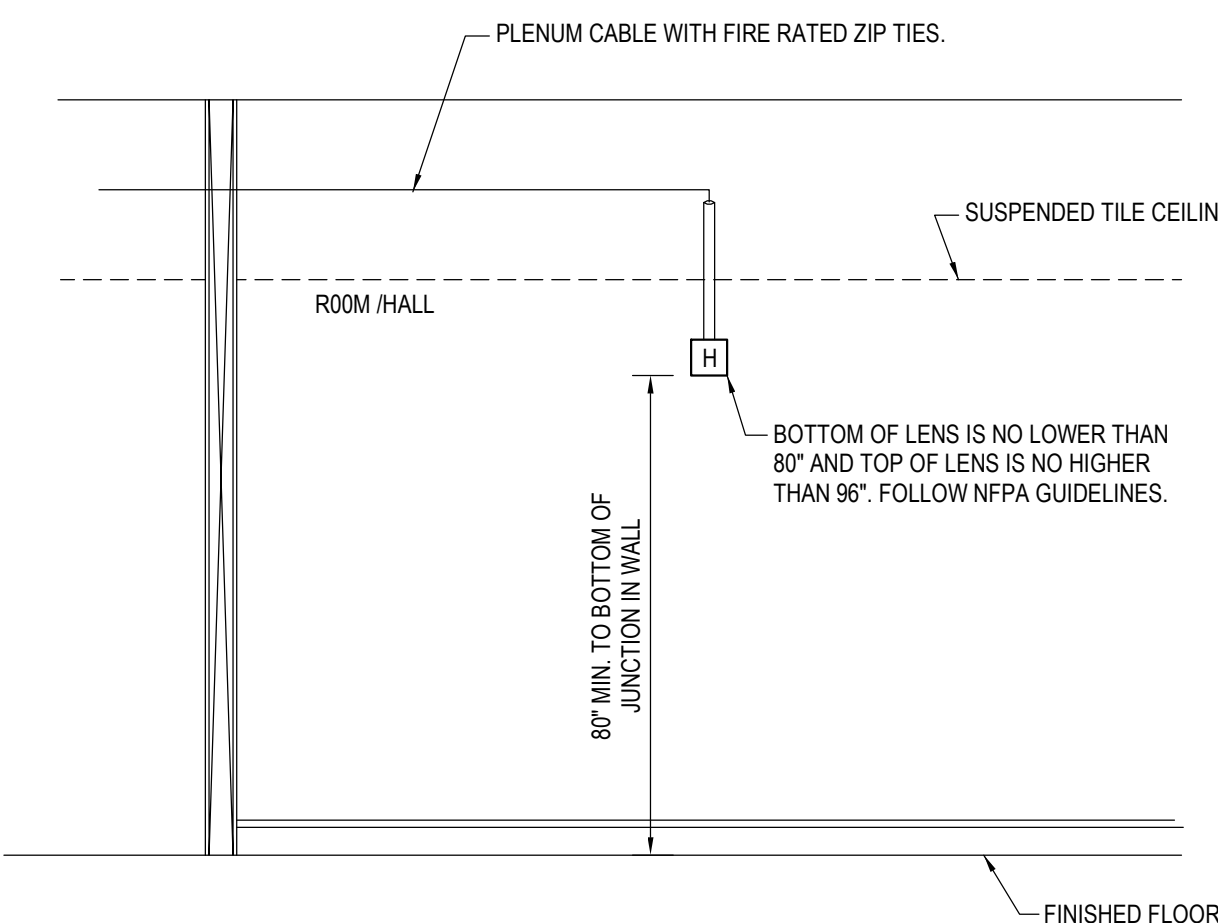
SHOP DRAWINGS:

1. SHOPS DRAWINGS MUST INCLUDE ALL DEVICES FOR SYSTEM AND PLANS SHOWING THE COMPLETE DESIGN OF THE SYSTEM.



1 MANUAL PULL STATION MOUNTING DETAIL

SCALE: N.T.S.



2 HORN/LIGHT OR STROBE LIGHT MOUNTING DETAIL

SCALE: N.T.S.

FIRE ALARM SYMBOLS LEGEND

- | | |
|------|---|
| FACP | EXISTING FIRE-LITE ES-200X FIRE ALARM CONTROL PANEL INTELLIGENT/ADDRESSABLE WITH SENSITIVITY TESTING AND DRIFT COMPENSATION. |
| F | INTELLIGENT, MANUAL PULL STATION, SINGLE ACTION. |
| SL | STROBE ONLY DEVICE. WHITE. CANDELA AS SHOWN ON PLANS. |
| HL | HORN/STROBE DEVICE. WHITE. CANDELA AND dBA AS SHOWN ON PLANS. |
| S | INTELLIGENT, PHOTOELECTRIC SMOKE DETECTOR. |
| DD | DUCT MOUNTED SMOKE DETECTOR. DEVICE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL WIRE DEVICES TO FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL ALSO COORDINATE WITH THE MECHANICAL CONTRACTOR FOR CONTROL WIRING SO THAT THE DEVICES WITH SHUT DOWN THE UNIT THEY MONITOR. MOUNT DEVICE IN RETURN AIR DUCT. |

LEGEND NOTES:

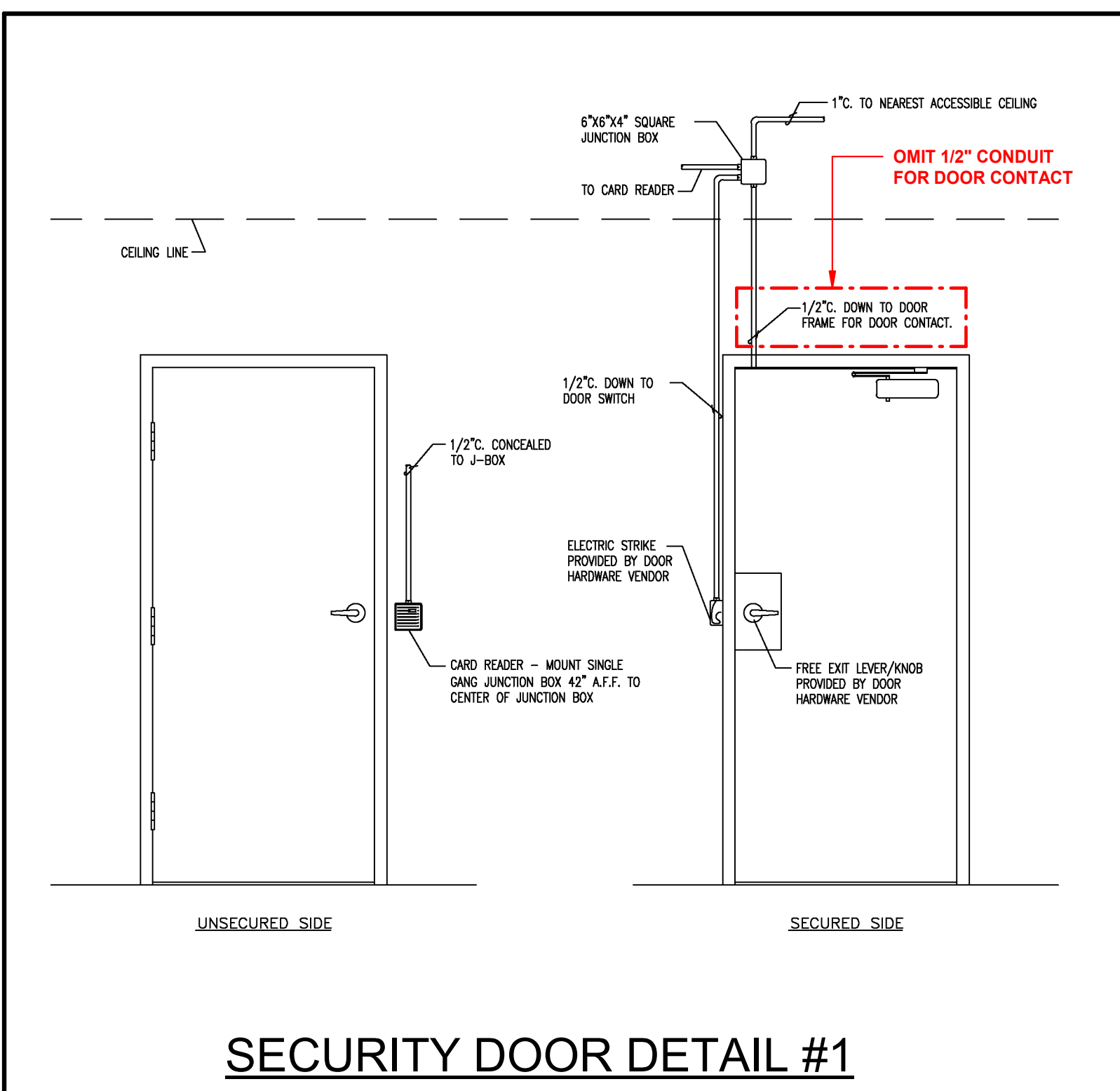
1. ALL HORN/STROBE & CHIME/STROBES TO BE 2 WIRE WITH ABILITY TO TURN OFF HORNS & CHIMES WHILE LIGHTS STILL FLASH.
2. CONTRACTOR IS TO SET CANDELA RATINGS AS SHOWN ON PLANS OR IN ACCORDANCE WITH CODE. EXISTING ANY AND STROBE ONLY DEVICES THAT ARE REUSED MAY BE INDICATED TO BE RESET TO A NEW CANDELA AND dBA RATING AS INDICATED ON PLANS.
3. CONTRACTOR IS TO FIELD VERIFY ALL SPRINKLER SYSTEM CHECK VALVES WITH SPRINKLER CONTRACTOR AND PROVIDE A TAMPER SWITCH AT EACH LOCATION.
4. SYSTEM MANAGED BY DSI SYSTEMS INC. 706-375-5829 - CONTACT LOWELL POTEET 423-421-1713.

SECURITY SYSTEMS LEGEND

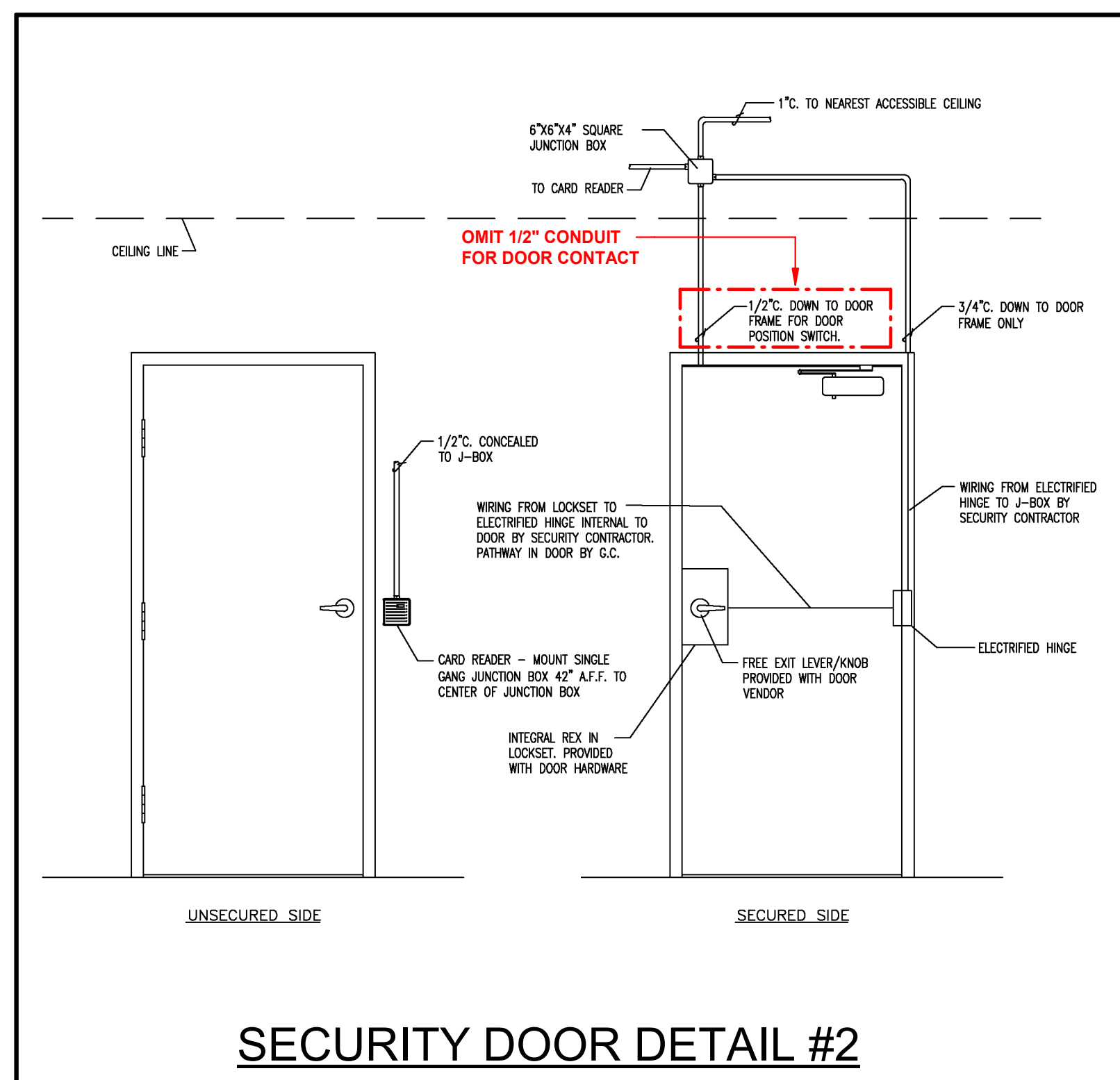
- | | |
|-----|-------------------------|
| CR | CARD READER (CR) |
| EL | ELECTRIC STRIKE (ES) |
| ML | MAG-LOCK (ML) |
| RX | REQUEST TO EXIT (RX) |
| CC | SECURITY CAMERA. |
| SEC | SECURITY CONTROL PANEL. |

LEGEND NOTES:

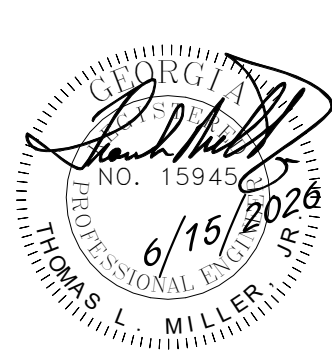
1. CONTRACTOR TO PROVIDE ROUGH-IN FOR SECURITY SYSTEM DEVICES. REFER TO SECURITY DOOR DETAILS THIS SHEET. COORDINATE ROUGH-IN REQUIREMENTS WITH OWNER'S SECURITY CONTRACTOR.
2. INSTALL PULL STRING IN ALL EMPTY CONDUITS FOR USE BY OTHERS.
3. SYSTEM MANAGED BY DSI SYSTEMS INC. 706-375-5829 - CONTACT LOWELL POTEET 423-421-1713.



SECURITY DOOR DETAIL #1



SECURITY DOOR DETAIL #2



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Fort Oglethorpe
Courts Renovation

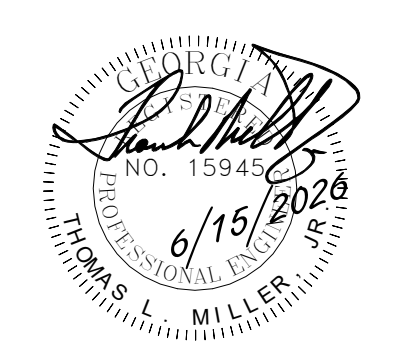
500 City Hall Drive
Fort Oglethorpe Georgia 30742

Revision Schedule		
Rev. Number	Rev. Date	Revision Description

Edmund Goode Garbee Architect of Record is not responsible for interpreting the intent of the construction documents, including making modifications as may be necessary during the construction phase; and is no longer liable for the work where changes to these documents have been made.

Release Date: 6/15/2026
Project No.: 25-001
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Edmund Goode Garbee Architect

FIRE ALARM & SECURITY NOTES AND DETAILS



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**Fort Oglethorpe
Courts Renovation**

500 City Hall Drive
Fort Oglethorpe Georgia 30742

SECTION 16000 - ELECTRICAL SPECIFICATIONS

GENERAL

- GENERAL CONDITIONS:
THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND SPECIAL CONDITIONS ARE A PART OF THIS CONTRACT AND APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.
- SCOPE:
THIS SECTION OF SPECIFICATIONS INCLUDES, BUT IS NOT LIMITED TO:
ALL LABOR, TOOLS, APPLIANCES, MATERIALS AND EQUIPMENT REQUIRED TO FURNISH AND INSTALL THE COMPLETE INSTALLATION SHOWN ON THE DRAWINGS FOR THIS SECTION OF THE WORK AND/OR IN THE FOLLOWING SPECIFICATIONS, INCLUDING THAT WHICH IS REASONABLY INFERRED.
- CODES AND REGULATIONS:
ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF PUBLIC AUTHORITIES HAVING JURISDICTION AND UTILITIES FURNISHING SERVICES.

CODES GOVERNING THIS WORK INCLUDE BUT ARE NOT LIMITED TO THE LATEST APPROVED EDITION OF THE FOLLOWING:

NATIONAL FIRE PROTECTION ASSOCIATION'S NATIONAL ELECTRICAL CODE (NEC), NFPA-70.
NFPA-72.
- STANDARDS:
ELECTRICAL MATERIAL AND EQUIPMENT SHALL HAVE BEEN TESTED AND LISTED OR LABELED AS CONFORMING TO APPROVED PUBLISHED STANDARDS BY UNDERWRITERS LABORATORIES WHERE SUCH LISTING OR LABELLING SERVICE IS AVAILABLE FOR THE CLASS OF MATERIALS OR EQUIPMENT, WHERE APPLICABLE, LISTING OR LABELLING SHALL APPLY TO THE COMPLETE ASSEMBLED EQUIPMENT AND NOT TO THE COMPONENTS ALONE.
- SUBMITTALS:
THREE COPIES OF MATERIALS LIST, SHOP DRAWINGS AND DATA SHEETS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW. SUBMITTALS SHALL BE MADE AND FAVORABLE REVIEW SECURED BEFORE MATERIAL AND EQUIPMENT IS INSTALLED.

MATERIALS LIST SHALL INCLUDE FIXTURES, SWITCHGEAR, PANELS, DEVICES, WIREWAYS, DISCONNECTS, LAMPS AND ALL OTHER SPECIFIED OR UNSPECIFIED STANDARD CATALOGED MATERIALS TO BE USED. THE LIST SHALL INCLUDE MANUFACTURER, TYPE AND SUCH OTHER DESCRIPTIVE DATA AS MAY BE REQUIRED TO DETERMINE THE ACCEPTABILITY OF EACH ITEM.

SHOP DRAWINGS AND DATA SHEETS FOR EQUIPMENT AND SYSTEMS SHALL BE SUBMITTED WHERE REQUIRED IN THE SPECIFICATION FOR THOSE ITEMS, INCLUDE INFORMATION ON EACH COMPONENT, WIRING DIAGRAMS, LAYOUTS, DIMENSIONS AND SUFFICIENT OTHER DATA TO ESTABLISH COMPLIANCE WITH THE SPECIFICATIONS AND ACCEPTABILITY OF THE EQUIPMENT OR SYSTEM.
- PERMITS AND DRAWINGS:
PERMITS AND INSPECTIONS SHALL BE BY THE GENERAL CONTRACTOR.
- GUARANTEE:
ALL WORK SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR, FROM EITHER THE OFFICIAL DATE OF COMPLETION OR FROM THE OFFICIAL DATE OF ACCEPTANCE BY THE OWNER, WHICHEVER IS THE LATER DATE. THE GUARANTEE PERIOD FOR CERTAIN ITEMS SHALL BE LONGER, AS INDICATED IN THE SPECIFICATION FOR THOSE ITEMS.

SHOULD ANY MALFUNCTION DEVELOP DURING THE GUARANTEE TIME PERIOD DUE TO DEFECTIVE MATERIAL, FAULTY WORKMANSHIP, OR NON-COMPLIANCE WITH PLANS, SPECIFICATIONS, CODES OR DIRECTIONS OF THE OWNER, ARCHITECT, ENGINEER OR INSPECTOR, THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE MALFUNCTION WITHOUT ADDITIONAL CHARGES.

PRODUCTS

- CIRCUIT BREAKERS:
CIRCUIT BREAKERS SHALL BE BY THE SAME MANUFACTURER THAT FURNISHES THE MAIN SERVICE EQUIPMENT AND PANELBOARDS.

BREAKERS SHALL BE MOLDED CASE TYPE. REMOVABLE HANDLE TIES AND DUAL, QUAD OR TANDEM BREAKERS ARE NOT ACCEPTABLE. MOUNTING HARDWARE, ACCESSORIES, FACEPLATES AND ENCLOSURES SHALL BE BE PROVIDED AS NECESSARY FOR THE INTENDED USE.

SHORT CIRCUIT INTERRUPTING CAPACITY SHALL BE AS INDICATED ON THE PLANS AND SHALL IN NO CASE BE LESS THAN 10,000 RMS SYMMETRICAL AMPS AT THE APPLIED VOLTAGE.

SUBMIT DATA ON BREAKERS WITH SWITCHBOARD AND PANELBOARD SHOP DRAWINGS AS REQUIRED UNDER "SUBMITTALS". SUBMITTALS SHALL INCLUDE INTERRUPTING CAPACITIES IN RMS SYMMETRICAL AMPS AT THE APPLIED VOLTAGE.
- SNAP SWITCHES:
AC GENERAL USE SNAP SWITCHES SHALL BE TOGGLE HANDLE, QUIET OPERATING, PREMIUM OR HEAVY DUTY SPECIFICATION GRADE, UL LISTED AND VERIFIED TO MEET FEDERAL SPECIFICATION W-S-896-D AND NEMA HEAVY DUTY TESTS. COLOR SHALL BE IVORY.

ALL SWITCHES SHALL BE RATED 120/277 VOLTS. FOR THE 20 AMP SIZE, HP RATINGS SHALL BE 1 FOR 120V AND 2 FOR 240V.

SWITCHES SHALL BE AS LISTED BELOW:
• 20A SPST - HUBBELL 1221, LEVINTON 1221 OR SIERRA 5721

SWITCHES REQUIRED BUT NOT LISTED SHALL HAVE EQUIVALENT QUALITY AS THOSE LISTED ABOVE.

- RECEPTACLE OUTLETS:
RECEPTACLE OUTLETS SHALL BE STANDARD NEMA CONFIGURATION, GROUNDING TYPE.

RECEPTACLE OUTLETS SHALL BE TAMPER RESISTANT TYPE.

GENERAL CONVENIENCE OUTLETS SHALL BE 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDING. OUTLETS SHALL BE UL LISTED AND VERIFIED TO MEET FEDERAL SPECIFICATION W-C-596-C AND NEMA HEAVY DUTY PERFORMANCE TESTS.

CONVENIENCE OUTLET FRONTS SHALL BE WHITE. COLOR SHALL BE COORDINATED WITH ARCHITECT.

OUTLETS SHALL BE AS LISTED BELOW: (NUMBERS DO NOT INCLUDE COLOR DESIGNATION OR OPTIONS).
20A CONVENIENCE - HUBBELL 5352, LEVITON 5362, OR SIERRA 1460

SPECIAL OUTLETS, NOT LISTED ABOVE, SHALL BE STANDARD NEMA CONFIGURATION FOR THE APPLICATION SHOWN AND SHALL BE OF EQUIVALENT GRADE AND QUALITY TO THOSE LISTED ABOVE. AN APPROVED CORD CAP OR PLUG SHALL BE FURNISHED WITH EACH RECEPTACLE OUTLET EXCEPT GENERAL CONVENIENCE TYPE. PLUG SHALL BE OF THE SAME GRADE, QUALITY AND MANUFACTURER AS THE OUTLET.
- DEVICE & BOX COVER PLATES:
PROVIDE A PLATE FOR EACH OUTLET, RECEPTACLE, SWITCH, DEVICE AND BOX.

PLATES FOR FLUSH INTERIOR GENERAL USE SHALL BE WHITE PLASTIC. COLOR SHALL BE COORDINATED WITH ARCHITECT.

ALL PLATES FOR EXTERIOR USE SHALL BE METALLIC WITH GASKETS AND SHALL HAVE WEATHERPROOF COVERS FOR DEVICES.

GANGED DEVICES SHALL HAVE GANG PLATES EXACTLY MATCHING THE ARRANGEMENT AND QUANTITY OF DEVICES.

SPECIAL PLATES, ENGRAVING OR APPLICATION SHALL BE AS INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFIED.
- OUTLET AND JUNCTION BOXES:
THE SIZE OF EACH OUTLET OR JUNCTION BOX SHALL BE DETERMINED BY THE NUMBER AND SIZES OF WIRES AND CONDUITS ENTERING THE BOX, PER NEC, BUT SHALL BE NOT LESS THAN 4-INCH SQUARE AND 1-1/2 INCHES DEEP UNLESS OTHERWISE NOTED.

OUTLET AND JUNCTION BOXES FOR INTERIOR USE SHALL BE GALVANIZED, ONE-PIECE PRESSED OR WELDED STEEL, KNOCKOUT TYPE, EXCEPT WHERE OTHER TYPES OF BOXES ARE INDICATED OR SPECIFIED. IN MASONRY OR CONCRETE CONSTRUCTION WATERPROOF BOXES MANUFACTURED FOR THAT PURPOSE SHALL BE USED. PLASTIC, FIBER OR COMPOSITION BOXES WILL NOT BE PERMITTED.

OUTLET AND JUNCTION BOXES FOR SURFACE EXTERIOR USE SHALL BE CAST BOXES, CROUSE-HINDS FS TYPE, OR APPROVED EQUIVALENT.
- CONDUITS AND FITTINGS:
STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE HOT DIPPED GALVANIZED. ALL FITTINGS SHALL BE OF THE SCREW THREAD TYPE. COUPLINGS, LOCKNUTS, BUSHINGS, ETC., SHALL BE HOT DIPPED GALVANIZED.

ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED. COUPLINGS AND CONNECTORS SHALL BE GALVANIZED. FITTINGS SHALL BE COMPRESSION TYPE WITH GLAND SEALING RINGS OR SET SCREW TYPE.

FLEXIBLE CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM. WHERE USED IN DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE OF THE LIQUID-TIGHT TYPE WITH OUTER NEOPRENE JACKET AND SUITABLE LIQUID-TIGHT FITTINGS.

RIGID NON-METALLIC CONDUIT SHALL BE PVC SCHEDULE 40, U.L. APPROVED. ALL COUPLINGS, FITTINGS, SOLVENT CEMENT, ETC.,
- WIRE AND CABLE:
WIRE AND CABLE FOR USE ON SYSTEMS OF 50 VOLTS TO 600 VOLTS SHALL BE 600 VOLT RATED TYPE THW OR THHN FOR BRANCH CIRCUITS. FEEDERS SHALL BE THHN.

WIRE AND CABLE FOR USE ON SYSTEMS OF BELOW 50 VOLTS SHALL BE 300 VOLT PVC INSULATED AND SUITABLE FOR THE CLASS OF WIRING EXCEPT AS OTHERWISE INDICATED OR SPECIFIED.

ALL CONDUCTORS SHALL BE COPPER.
- LIGHTING FIXTURES AND LAMPS:
FIXTURES SHALL BE COMPLETE WITH ALL REQUIRED ACCESSORIES AND EQUIPMENT, INCLUDING LAMPS, NECESSARY FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL RECEIVE, UNPACK, ASSEMBLE AND INSTALL FIXTURES INDICATED AS BEING FURNISHED BY OTHERS.

ALL LIGHTING FIXTURE ARE TO BE PROVIDED AS LED TYPE UNLESS NOTED OTHER WISE ON DRAWINGS

VERIFY THE CEILING OR WALL CONSTRUCTION, VOLTAGE AND THE MOUNTING REQUIREMENTS OF EACH FIXTURE AND PROVIDE PLASTER FRAMES, SPECIAL FLANGES, CONCRETE POUR HOUSINGS, BOXES, BRACKETS, ADAPTERS, HANGERS, STEMS, CANOPYS, SPECIAL BALLASTS OR LENSES AND OTHER MATERIALS NECESSARY TO PROPERLY PURCHASE AND MOUNT THE FIXTURE.

SUBMIT SHOP DRAWINGS ON ALL FIXTURES AS REQUIRED UNDER SUBMITTALS". "SHOP DRAWINGS" MAY BE CATALOG DATA SHEETS IF COMPLETE INFORMATION INCLUDING MOUNTING HARDWARE IS SHOWN AND IDENTIFIED. SHOP DRAWINGS SHALL INCLUDE MOUNTING DETAILS AND SHOW COMPATIBILITY WITH THE CEILING OR OTHER EQUIPMENT.

- NAMEPLATES AND LABELS:
NAMEPLATES SHALL BE PROVIDED FOR CIRCUIT BREAKERS IN THE MAIN SWITCHBOARD, SWITCHES, AND TO IDENTIFY EACH PANELBOARD AND SIMILAR ITEMS WHICH ARE FURNISHED OR INSTALLED UNDER THIS SECTION.

NAMEPLATES SHALL BE ENGRAVED LAMINATED PLASTIC WITH CHARACTERS CUT THROUGH THE BLACK TOP LAYER TO WHITE LAYER BELOW.

EXECUTION

- INSTALLATION AND CONNECTION OF ELECTRICAL EQUIPMENT:
EQUIPMENT FURNISHED BY OTHERS SHALL BE COMPLETELY CONNECTED TO THE ELECTRICAL SYSTEM EXCEPT AS NOTED ON THE DRAWINGS. ALL FUSES, BREAKERS AND DISCONNECTS SHALL BE PROVIDED AS NECESSARY FOR PROPER PROTECTION. PROVIDE ALL FLEXIBLE CONDUIT, BOXES, FITTINGS, RECEPTACLES, CORDS, PLUGS AND OTHER MATERIAL REQUIRED FOR PROPER INSTALLATION. REFER TO MANUFACTURER'S DIRECTIONS WHERE APPLICABLE.
- WORK ON HVAC AND PLUMBING SYSTEMS:
COMPLETE POWER CIRCUITS, INCLUDING BREAKERS, SWITCHES, DISCONNECTS, WIRE AND CONDUIT, OUTLETS AND CONNECTIONS TO HVAC AND PLUMBING EQUIPMENT SHALL BE PROVIDED UNDER THIS SECTION.

STARTERS AND CONTROLLERS SHALL BE PROVIDED UNDER THIS SECTION EXCEPT WHERE PART OF A PACKAGE UNIT OR PANEL SPECIFIED IN DIVISION 15.

HVAC AND PLUMBING CONTROL AND INTERLOCK WIRING REGARDLESS OF VOLTAGE, AND CONDUITS FOR SAME, WILL BE WIRED AND CONNECTED UNDER THIS SECTION.
- INSTALLATION OF CONDUIT:
STANDARD WEIGHT RIGID METAL CONDUIT SHALL BE USED WHERE EXPOSED TO THE WEATHER, PLACED UNDERGROUND BELOW CONCRETE SLAB, IN CONCRETE OR MASONRY CONSTRUCTION IN CONTACT WITH EARTH, AND WHERE SHOWN ON THE PLANS.

GALVANIZED STEEL ELECTRICAL METALLIC TUBING SHALL BE USED IN ABOVE GROUND, INTERIOR, DRY LOCATIONS PROTECTED FROM WEATHER AND PHYSICAL DAMAGE, AND MAY BE USED IN CONCRETE OR MASONRY CONSTRUCTION NOT IN CONTACT WITH EARTH.

FLEXIBLE CONDUIT SHALL BE USED WHERE SHOWN ON THE PLANS AND TO CONNECT CONDUIT SYSTEMS TO MOTORS, DIRECT WIRED AND VIBRATING EQUIPMENT AND AS A FINAL CONNECTION TO LIGHTING FIXTURES IN ACCESSIBLE CEILINGS. IT MAY BE USED AS A WIRING SYSTEM INSTEAD OF EMT IN INTERIOR WALLS (DRY FRAME OR STUD CONSTRUCTION), OR PER LOCAL JURISDICTION.

RIGID NON-METALLIC CONDUIT MAY BE USED FOR ALL UNDERSLAB OR UNDERGROUND WORK IN PLACE OF STANDARD WEIGHT RIGID METAL AND WHERE SPECIFICALLY SPECIFIED. ALL RUNS OF RIGID NON-METALLIC CONDUIT SHALL CONTAIN A SEPARATE GREEN GROUND WIRE ADEQUATELY SIZED FOR SERVICE INTENDED. WHERE REQUIRED TO CONTINUE ABOVE SLAB, STUB NON-METALLIC CONDUIT 6" ABOVE SLAB THEN MAKE PROPER TRANSITION TO METAL CONDUIT.

ALL RIGID STEEL CONDUIT INSTALLED IN THE GROUND SHALL BE WRAPPED WITH HUNT'S PROCESS NO. 3, PVC COATED OR ENCASED IN 3" CONCRETE ON ALL SIDES.

THE MINIMUM SIZES OF CONDUIT SHALL BE CODE SIZE FOR THE NUMBER AND SIZE OF CONDUCTORS, UNLESS A LARGER SIZE IS SHOWN, IN WHICH CASE SUCH LARGER SIZE SHALL BE USED.

ALL FINAL CONNECTIONS TO MOTORS SHALL IN FLEXIBLE METAL CONDUIT AND AS SHOWN ON DRAWINGS.
- INSTALLATION AND CONNECTION OF WIRING:
NO "BX" TYPE CONDUCTOR/FLEX CONDUIT OR ROMEX CABLE WILL BE PERMITTED. ALL WIRING SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR GUTTERS, EXCEPT WHERE OTHER RACEWAY SYSTEMS OR METHODS ARE SPECIFICALLY SHOWN.

CLEAN OUT AND DRY ALL CONDUIT AND WIREWAYS BEFORE PULLING ANY WIRES. USE NO LUBRICANT EXCEPT AS RECOMMENDED BY THE WIRE OR CABLE MANUFACTURER.

MAKE ALL CONNECTIONS AND SPLICES NECESSARY TO PROPERLY COMPLETE THE ELECTRICAL WIRING. CONNECTIONS AND SPLICES SHALL BE MADE ONLY IN PULL, JUNCTION OR OUTLET BOXES, OR IN SWITCHBOARDS, WIREWAYS OR PANELS HAVING SUFFICIENT CODE SIZED GUTTER SPACE. CONNECTIONS AND SPLICES IN WIRES SMALLER THAN NO. 6 AWG SHALL BE MADE WITH SPRING TYPE CONNECTORS, AND IN WIRES NO. 6 AWG AND LARGER SHALL BE MADE WITH COMPRESSION, VISE TYPE, OR SPLIT BOLT SOLDERLESS CONNECTORS, INSULATED AND TAPED.

CONNECTIONS FOR THE POWER WIRING OF THE P.O.S. SYSTEM SHALL BE SOLDERED ONLY, NO SOLDERLESS CONNECTIONS WILL BE ALLOWED. CAP CONNECTION AFTER SOLDERING.

- TELEPHONE SYSTEM:
FURNISH AND INSTALL COMPLETE CONDUIT AND TERMINAL SYSTEM FOR TELEPHONE SERVICES AS INDICATED ON DRAWINGS.

INSTALL A 1/8-INCH POLYETHYLENE PULL-IN WIRE IN EACH CONDUIT RUN.

TELEPHONE WALL OUTLETS SHALL BE 4-11/16 INCH SQUARE BY 2-1/8 INCH DEEP METAL BOXES, WITH PLASTER RING AND SINGLE BUSHED OUTLET FLUSH TELEPHONE PLATE.

FURNISH AND INSTALL 3/4-INCH CONDUIT FROM THE TELEPHONE EQUIPMENT ROOM MAIN TELEPHONE BACKBOARD TO NEAREST ACCESSIBLE COLD WATER GROUND*. THIS CONDUIT SHOULD BE TERMINATED IN SUCH A MANNER THAT ACCESS TO GROUNDING DEVICE MAY BE HAD AT ANY TIME IN THE FUTURE.
*PER NEC 250 & NEC 800
- GROUNDING:
MAKE GOOD MECHANICAL AND ELECTRICAL CONTACT AT ALL POLES, PANELBOARDS, SWITCHBOARDS, OUTLET BOXES, JUNCTION BOXES, AND WHEREVER THE CONDUIT RUN IS CONNECTED. PERMANENTLY AND EFFECTIVELY GROUND ALL CONDUIT, FIXTURES, MOTORS AND OTHER EQUIPMENT AS REQUIRED BY ALL APPLICABLE CODES, REGULATIONS AND STANDARDS.
- CLEANING AND PROTECTION OF PRODUCTS AND PREMISES:
AT FREQUENT INTERVALS DURING THE TIME OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN UP AFTER HIS WORK AND REMOVE HIS DEBRIS FROM THE PREMISES, LEAVING THE BUILDING AND GROUNDS CLEAN TO THE OWNER'S SATISFACTION.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL MATERIALS, EQUIPMENT AND PROPERTY, WHETHER ELECTRICAL OR NOT, FROM DAMAGE AS A RESULT OF HIS WORK.
- CHECKING AND TESTING OF EQUIPMENT AND SYSTEMS:
PANELS, DISCONNECTS, STARTERS AND OTHER EQUIPMENT INSTALLED UNDER THIS SECTION SHALL BE INSPECTED FOR DEFECTS AND TESTED FOR PROPER OPERATION.

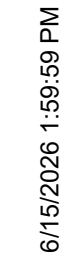
SYSTEMS SHALL BE TESTED FOR SHORT CIRCUITS, OPEN CIRCUITS AND WRONG CONNECTIONS AND SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. CIRCUITS SHALL BE TESTED FOR PROPER NEUTRAL AND GROUND CONNECTIONS.
- SUBSTITUTIONS:
ALTERNATIVE MANUFACTURER'S WILL BE CONSIDERED FOR ELECTRICAL DEVICES, SWITCHES, OUTLETS, ETC. NOT PROVIDED BY OWNER.

CATALOGS, DATA SHEETS OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR ALL ALTERNATIVE MANUFACTURED EQUIPMENT AS REQUIRED UNDER "SUBMITTALS".

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Edmund Goode Garbee Architect

ELECTRICAL
SPECIFICATIONS



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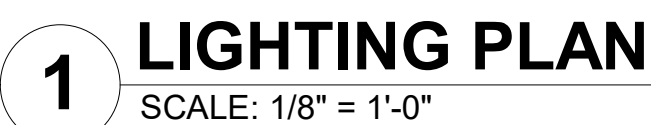
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LIGHTING PLAN

E1.1



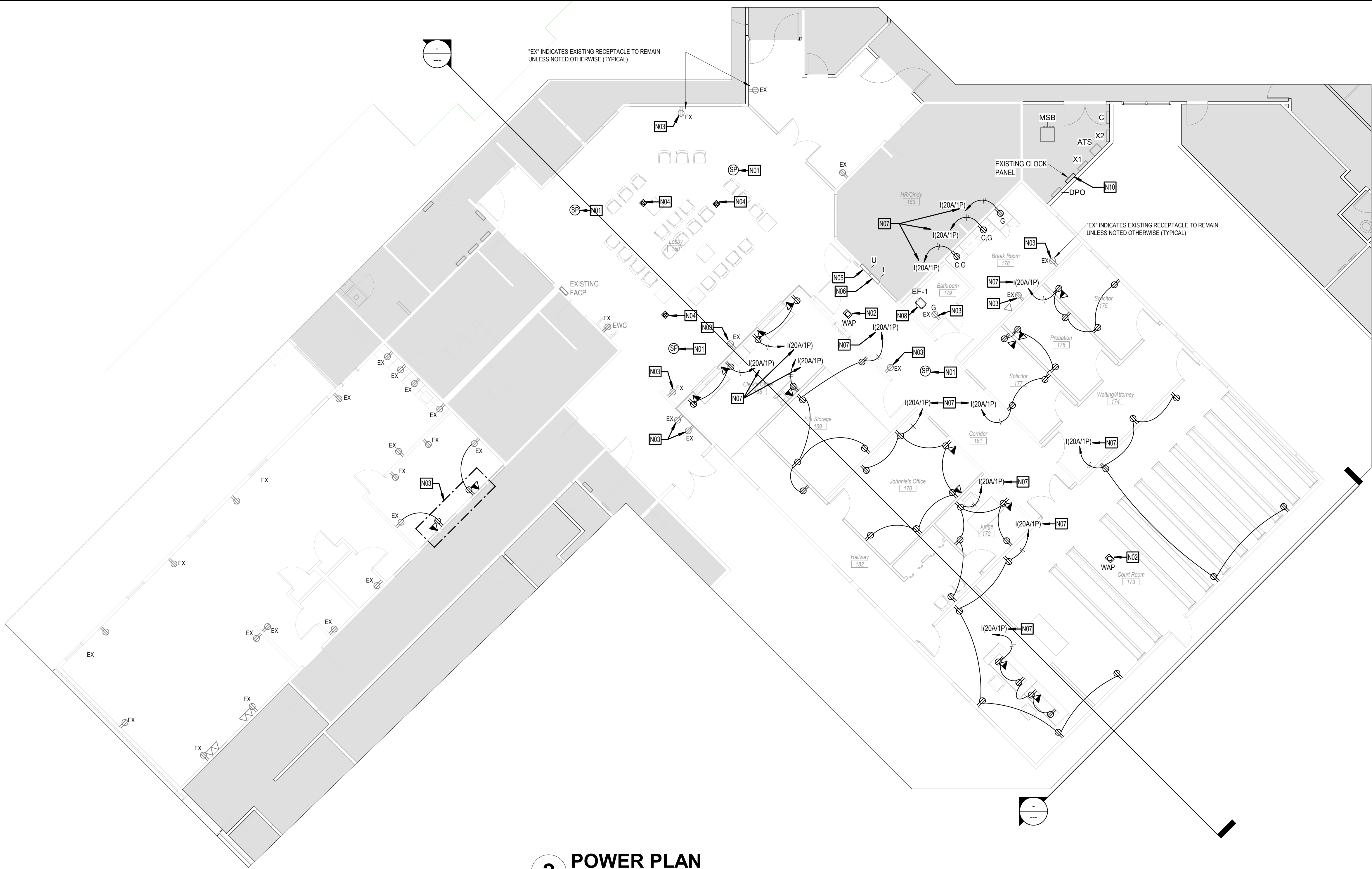
LIGHTING PLAN

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

LIGHTING NOTES:

- | | |
|-----|---|
| N01 | EXISTING LIGHT FIXTURE TO BE RE-WIRED FOR EMERGENCY USE. CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT AND CONFIGURE FOR NIGHT LIGHT. |
| N02 | EXISTING LIGHT FIXTURE TO BE RE-WIRED FOR NEW SWITCH CONTROL AS SHOWN ON PLANS. COORDINATE WORK WITH EXISTING CONDITIONS AND PROVIDE ADDITIONAL RELAYS AS REQUIRED FOR THIS WORK. |
| N03 | CONNECT TO EXISTING NORMAL POWER LIGHTING CIRCUIT. |
| N04 | CONNECT TO EXISTING EMERGENCY POWER LIGHTING CIRCUIT. |
| N05 | EMERGENCY LIGHT FIXTURES TO BE PROGRAMMED TO BE 25% MINIMUM LIGHT LEVEL (NIGHT LIGHT) WHEN SPACE IS UNOCCUPIED OR FIXTURES HAVE TURNED OFF. |
| N06 | REPLACE EXISTING SWITCH WITH NEW TYPE AS SHOWN |
| N07 | EXISTING LIGHT TO REMAIN. CONNECT TO NEW NON-SWITCHED CIRCUIT AS SHOWN |
| N08 | CONNECT EMERGENCY LIGHTING UNIT TO NON-SWITCH PORTION OF EXISTING LIGHTING IN THE SPACE |
| N09 | REWORK EXISTING LIGHTING IN THIS SPACE FOR NEW MOTION SENSOR SWITCH CONTROL AS INDICATED. |



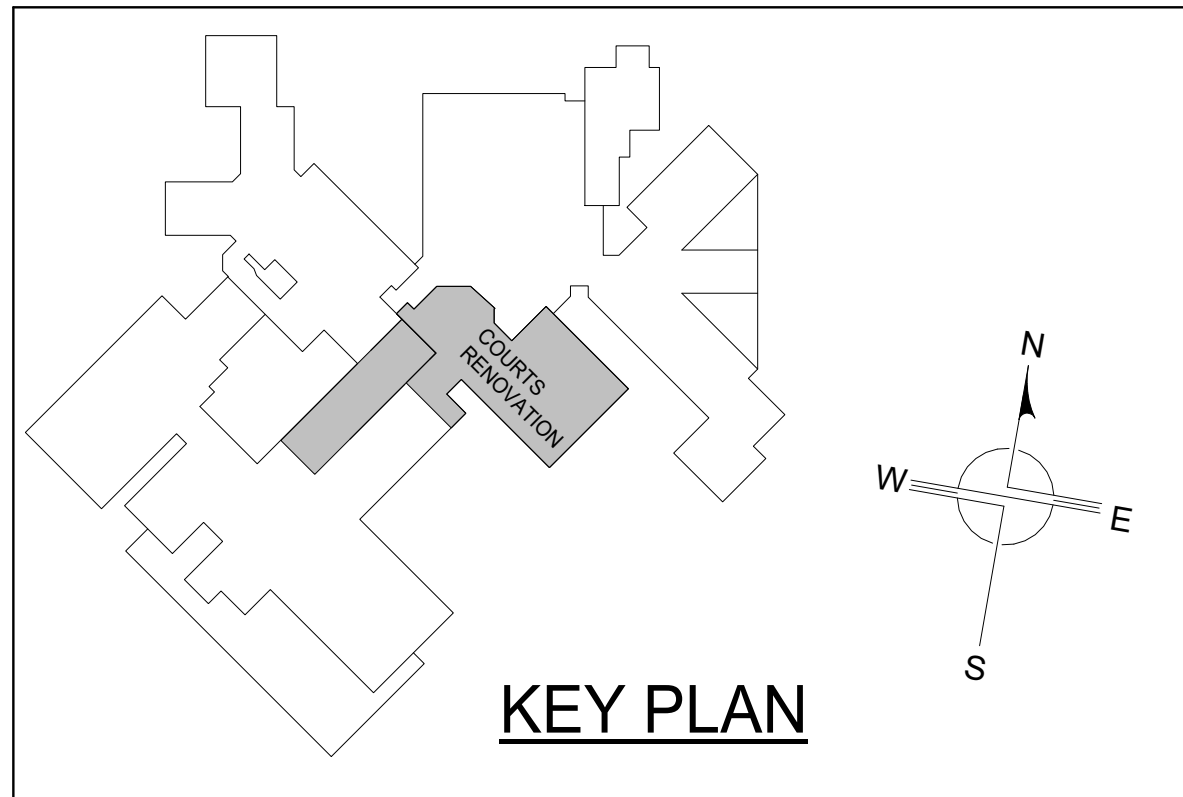


2 POWER PLAN

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

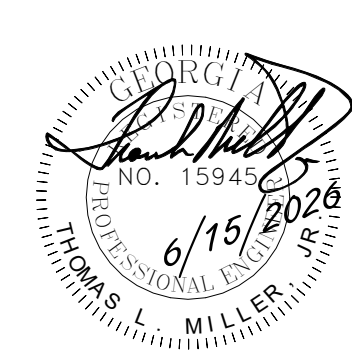
POWER NOTES:

- N01** EXISTING CEILING MOUNTED SPEAKER TO BE RE-INSTALLED IN NEW CEILING GRID AS SHOWN. EXTEND EXISTING WIRING AS REQUIRED.
- N02** EXISTING CEILING MOUNTED WIRELESS AP TO BE RE-INSTALLED IN NEW CEILING GRID AS SHOWN. EXTEND EXISTING WIRING AS REQUIRED.
- N03** EXISTING DUPLEX RECEPTACLE. REMOVE AND REPLACE EXISTING RECEPTACLE AND COVER PLATE. NEW RECEPTACLE TO BE TAMPER RESISTANT TYPE. COLOR TO MATCH NEW DEVICES BEING INSTALLED.
- N04** NEW FLOOR BOX (SINGLE GANGE WITH DUPLEX RECEPTACLE) FLUSH MOUNT IN EXISTING FLOOR SLAB. CONNECT TO EXISTING BENCH SEATING RECEPTACLE CIRCUITS. INDICATE CIRCUIT NUMBERS ON AS-BUILT DRAWINGS. FINAL PLACEMENT TO BE FIELD COORDINATED WITH EXISTING CIRCUIT ROUTING AND PROPOSED SEATING ARRANGEMENT. COORDINATE CUTTING, TRENCHING AND PATCHING OF EXISTING FLOOR SLAB WITH GENERAL CONTRACTOR TO REPAIR FLOOR FOR NEW FINISHES.
- N05** EXISTING PANEL "U":
 - INSTALL ONE 60A/3P CIRCUIT BREAKER FOR NEW RTU-1
 - INSTALL ONE 80A/3P CIRCUIT BREAKER FOR NEW RTU-2
 - REMOVE EXISTING NON-USED CIRCUIT BREAKERS TO ALLOW FOR INSTALLATION OF NEW CIRCUIT BREAKERS FOR NEW EQUIPMENT.
 - UPDATE INDEX AT COMPLETION OF PROJECT.
- N06** EXISTING PANEL "I":
 - RE-USE EXISTING CIRCUIT BREAKERS FOR NEW CIRCUITS.
 - UPDATE INDEX AT COMPLETION OF PROJECT.
- N07** ROUTE TO EXISTING PANEL "I" AND CONNECT TO SPARE 20A/1P CIRCUIT BREAKER
- N08** NEW EXHAUST FAN - CONNECT TO AND CONTROL WITH EXISTING LIGHT IN RESTROOM.
- N09** EXISTING RECEPTACLES AND DATA OUTLETS REINSTALLED AS SHOWN AND RECONNECTED TO EXISTING POWER CIRCUITS. COORDINATE WITH OWNER'S IT DEPARTMENT TO RELOCATE EXISTING DATA CABLES
- N10** EXISTING CLOCK PANEL TO BE REMOVED AND REPLACED WITH NEW BAS CONTROL PANEL. BAS CONTROL PANEL TO BE PROVIDED AND INSTALLED BY MECHANICAL TRADE. EXISTING CLOCK PANEL CKT. X2-8 TO BE REUSED FOR NEW BAS CONTROL PANEL.



KEY PLAN

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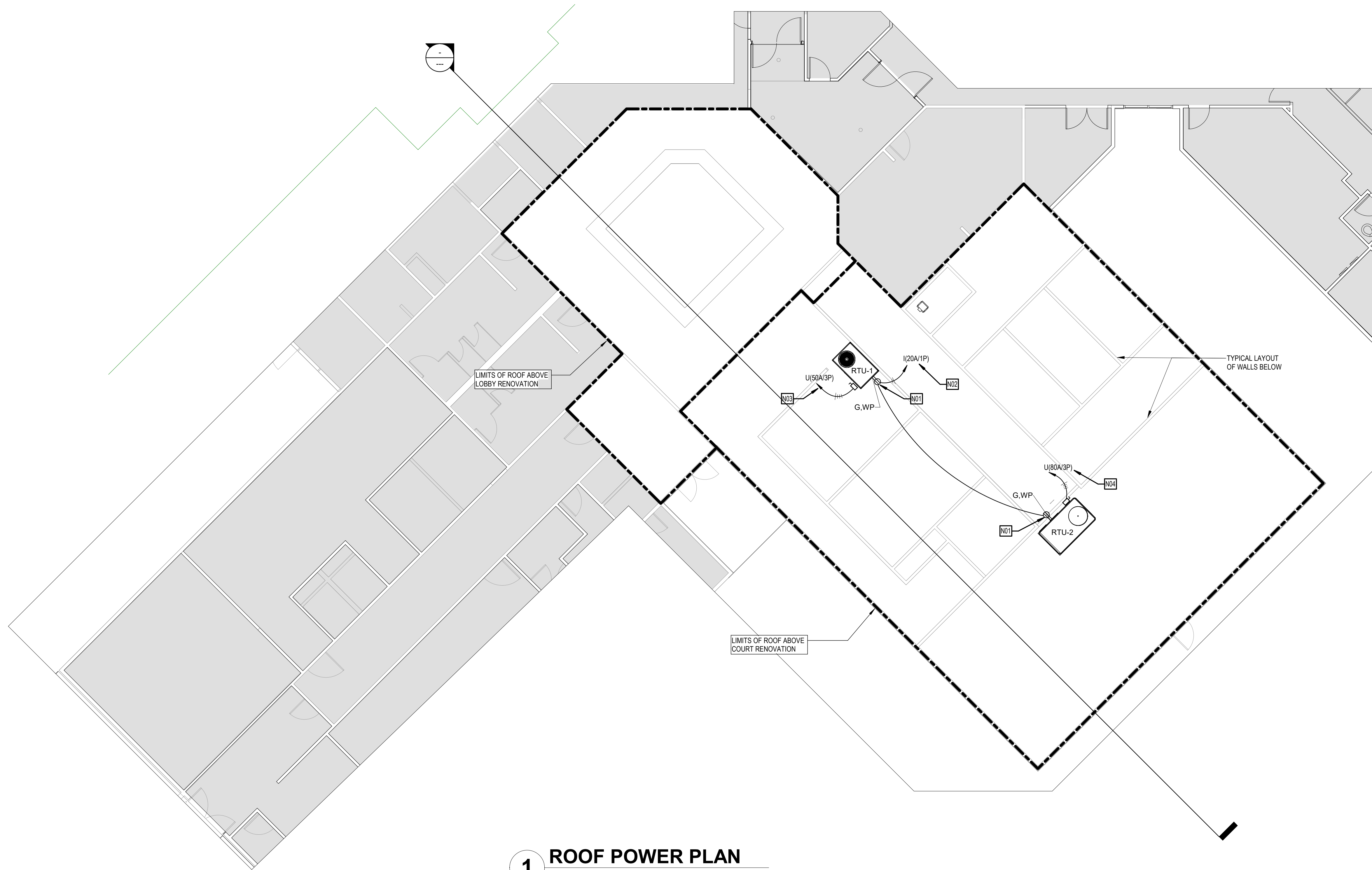
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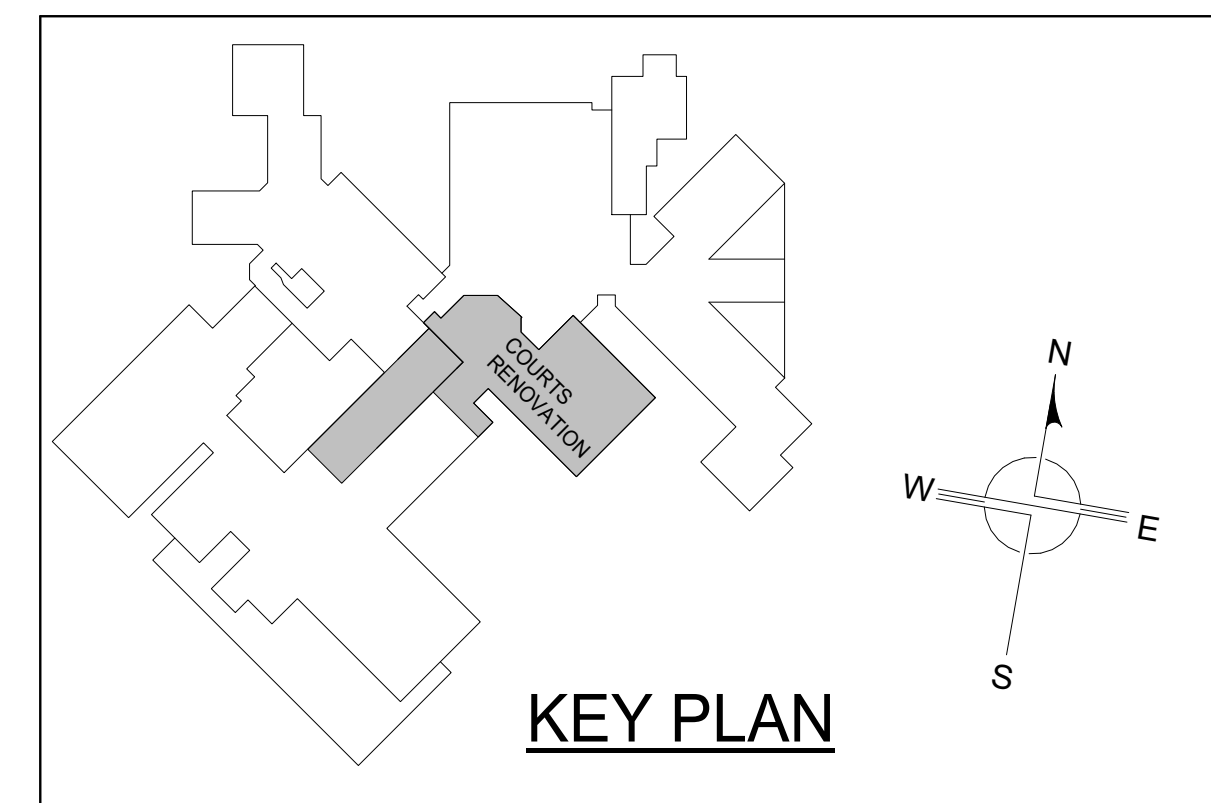
POWER PLAN

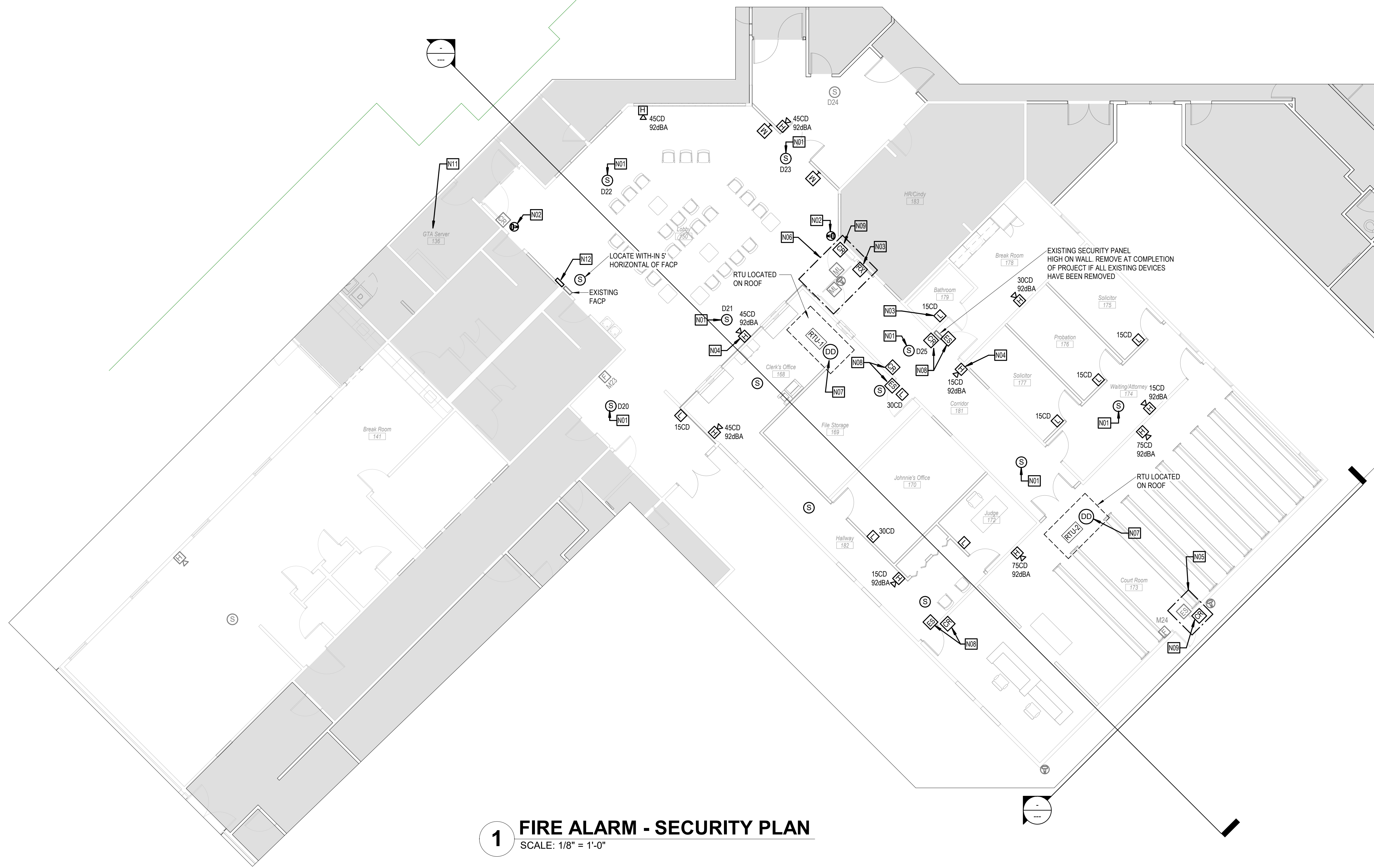


1 ROOF POWER PLAN
SCALE: 1/8" = 1'-0"

ROOF POWER NOTES:

- N01** INSTALL NEW GFCI/WEATHERPROOF RECEPTACLE ON ROOF AT NEW RTU LOCATION.
- N02** ROUTE TO EXISTING PANEL "I" AND CONNECT TO SPARE 20A/1P CIRCUIT BREAKER
- N03** ROUTE TO EXISTING PANEL "U" AND CONNECT TO NEW 50A/3P CIRCUIT BREAKER (RTU-1)
- N04** ROUTE TO EXISTING PANEL "U" AND CONNECT TO NEW 80A/3P CIRCUIT BREAKER (RTU-2)

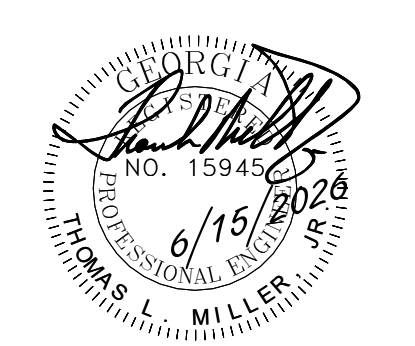
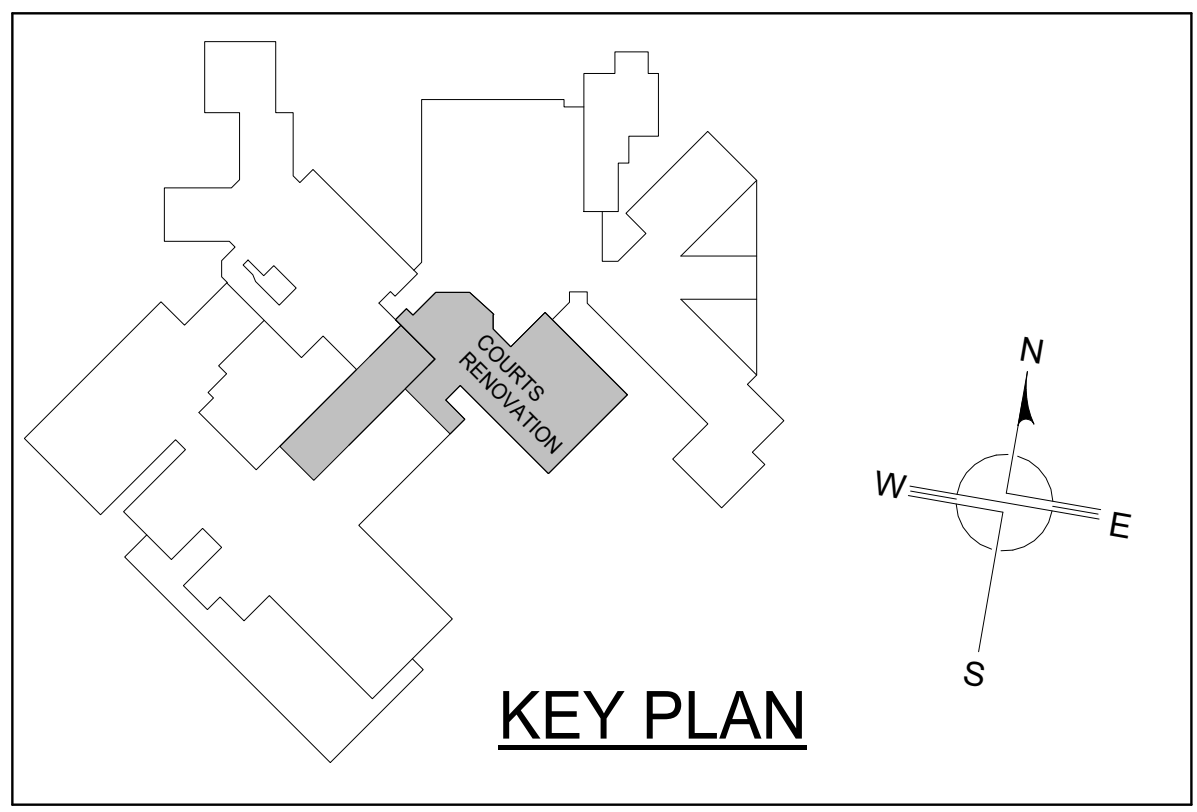




1 FIRE ALARM - SECURITY PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM - SECURITY NOTES:

- N01 EXISTING CEILING MOUNT SMOKE DETECTOR TO BE RE-INSTALLED IN NEW CEILING AS SHOWN. EXTEND EXISTING WIRING AS REQUIRED.
- N02 EXISTING CEILING MOUNT SECURITY CAMERA TO BE RE-INSTALLED IN NEW CEILING AS SHOWN. EXTEND EXISTING WIRING AS REQUIRED.
- N03 INSTALL NEW FIRE ALARM STROBE LIGHT AT EXISTING FIRE ALARM STROBE LOCATION. REUSE EXISTING BACK BOX AND CONDUIT IF APPLICABLE FOR NEW INSTALLATION.
- N04 INSTALL NEW FIRE ALARM HORN/STROBE LIGHT AT EXISTING FIRE ALARM HORN/STROBE LOCATION. REUSE EXISTING BACK BOX AND CONDUIT IF APPLICABLE FOR NEW INSTALLATION.
- N05 EXISTING ACCESS CONTROL TO BE REWORKED. EXISTING ELECTRIC STRIKE (ES) TO REMAIN. PROVIDE NEW CARD READER (CR) AT EXISTING LOCATION.
- N06 EXISTING ACCESS CONTROL TO BE REWORKED. EXISTING MAG-LOCKS (ML) TO REMAIN. PROVIDE NEW CARD READER (CR) AT EXISTING EXTERIOR LOCATION AND NEW REQUEST TO EXIT (RX) DEVICE AT EXISTING INTERIOR CARD READER LOCATION.
- N07 DUCT DETECTOR TO BE INSTALLED AT NEW ROOF TOP UNITS. INSTALL IN SUPPLY OR RETURN AIR DUCT AS DIRECTED TBY THE AHJ. PROVIDE WITH SHUT-DOWN RELAY TO SHUT-DOWN UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
- N08 NEW ACCESS CONTROL. PROVIDE ROUGH-IN FOR NEW CARD READER (CR) AND NEW ELECTRIC STRIKE (ES).
- N09 INSTALL NEW CARD READER (CR) AT EXISTING CARD READER (CR) LOCATION. REUSE EXISTING BACK BOX AND CONDUIT IF APPLICABLE FOR NEW INSTALLATION.
- N10 INSTALL NEW REQUEST TO EXIT (RX) AT EXISTING CARD READER (CR) LOCATION. REUSE EXISTING BACK BOX AND CONDUIT IF APPLICABLE FOR NEW INSTALLATION.
- N11 ALL ACCESS CONTROL (EXISTING AND NEW) TO ORIGINATE FROM THIS LOCATION. COORDINATE ALL ROUGH-IN REQUIREMENTS WITH SECURITY CONTRACTOR.
- N12 ALL NEW FIRE ALARM STROBES AND HORN/STROBES TO BE CONNECTED TO NEW NAC PANEL. PANEL TO BE INSTALLED ABOVE CEILING AT FACP LOCATION. COORDINATE FINAL LOCATION WITH FIRE ALARM CONTRACTOR. CONNECT NAC PANEL TO EXISTING FACP POWER FEED. VERIFY EXISTING FACP IS SUPPLIED FROM GENERATOR POWER PANEL.



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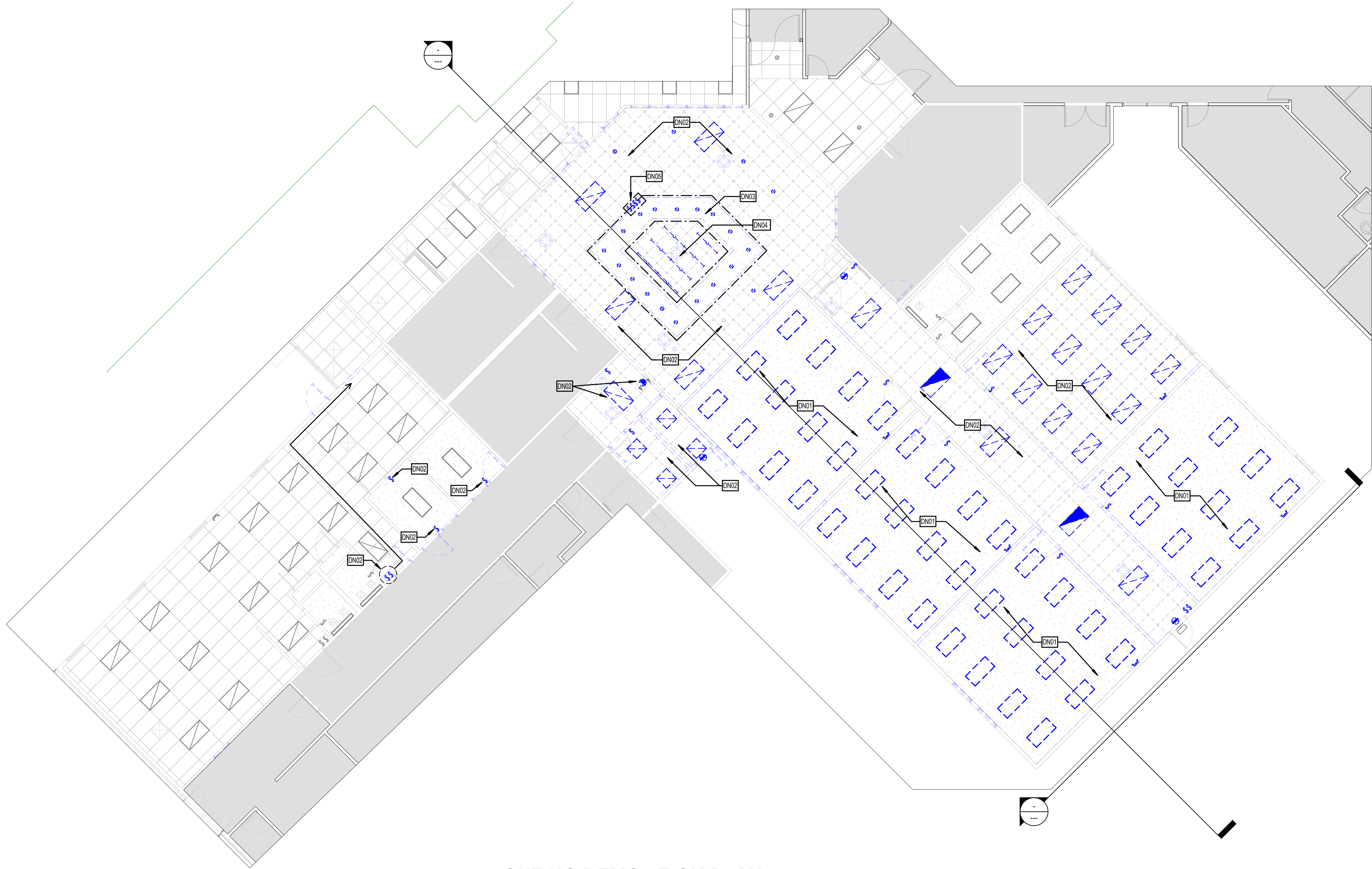
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FIRE ALARM - SECURITY PLANS

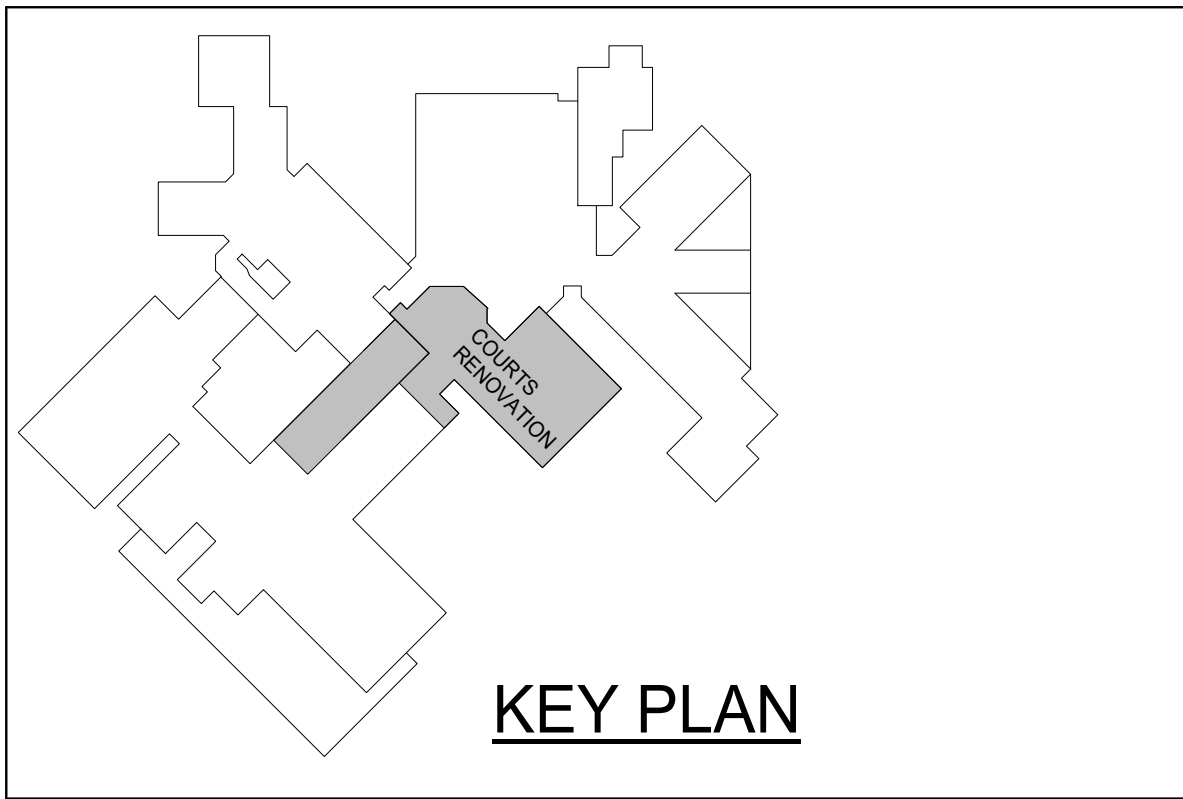


1 LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

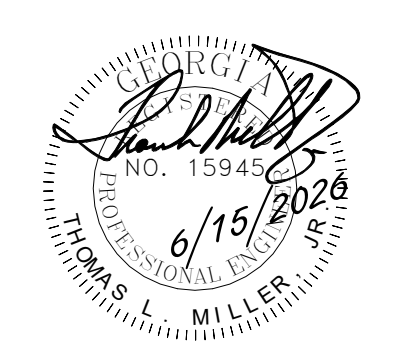
LIGHTING DEMOLITION NOTES:

- DN01** CONTRACTOR TO REMOVE ALL EXISTING LIGHTING AND SWITCHES FROM THIS ROOM. ROOM HAS EXISTING GYPBOARD CEILING AND SURFACE MOUNT LIGHT FIXTURES.
- DN02** CONTRACTOR TO REMOVE ALL EXISTING LIGHTING AND SWITCHES FROM THIS ROOM. ROOM HAS EXISTING LAY-IN CEILING AND RECESS MOUNT LIGHT FIXTURES.
- DN03** CONTRACTOR TO REMOVE ALL EXISTING LIGHTING LOCATED IN THE DROPPED SOFFIT. DROPPED SOFFIT HAS EXISTING GYPBOARD CEILING AND RECESSED CAN LIGHTS.
- DN04** CONTRACTOR TO REMOVE ALL EXISTING LIGHTING LOCATED ABOVE TRANSPARENT CEILING PANELS. TYPE, QUANTITY OF EXISTING FIXTURES HAS NOT BEEN DETERMINED. A PORTION OF THE EXISTING FIXTURES MAY BE CONNECTED TO THE EXISTING GENERATOR LIGHTING CIRCUIT(S).
- DN05** EXISTING LIGHT SWITCHES LOCATED IN SEATED BENCH AREA, TO BE REMOVED. NEW SWITCHING TO BE PROVIDED FOR NEW LIGHTING AS SHOWN ON SHEET E1.1.

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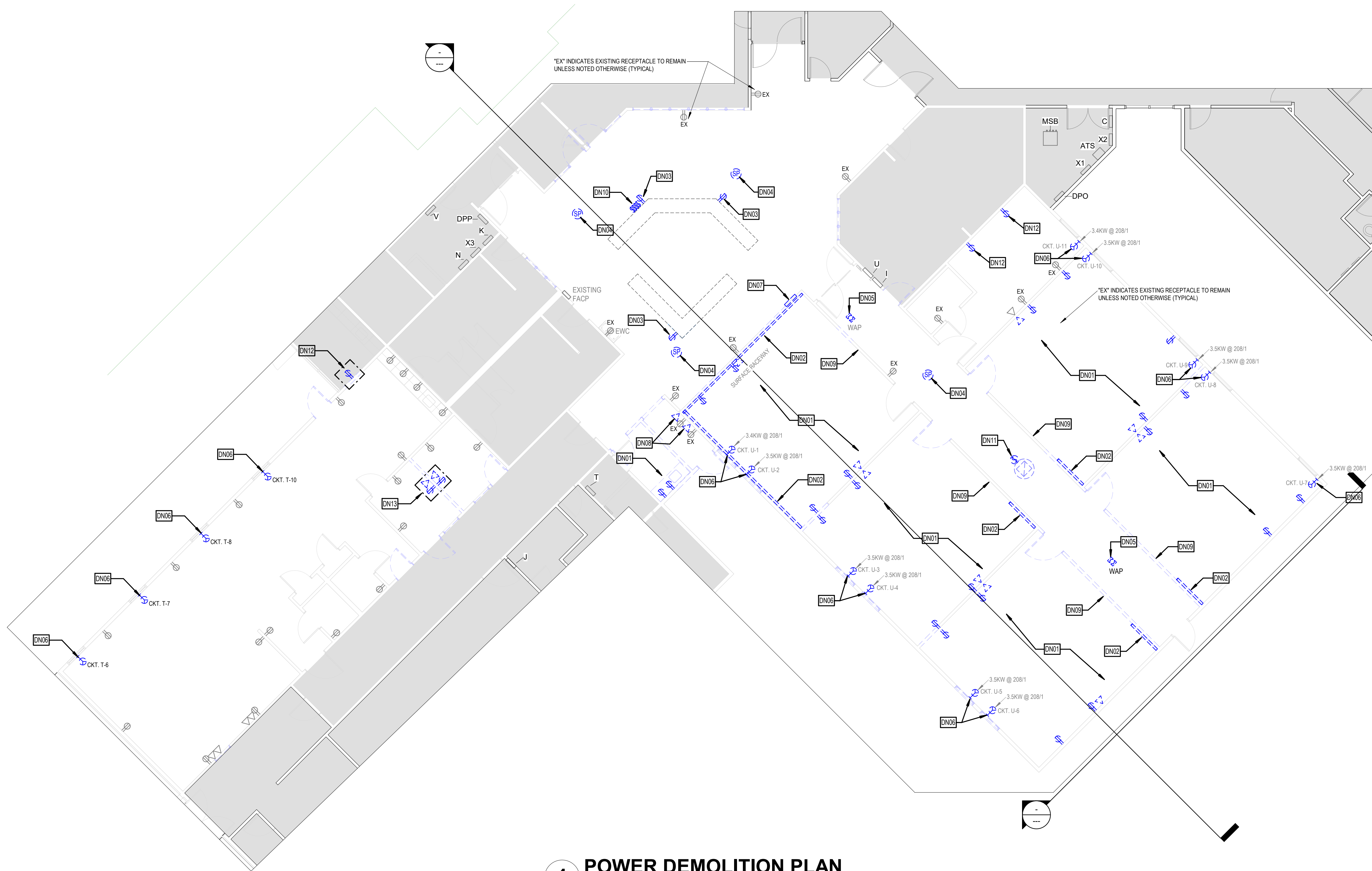
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LIGHTING
DEMOLITION PLAN



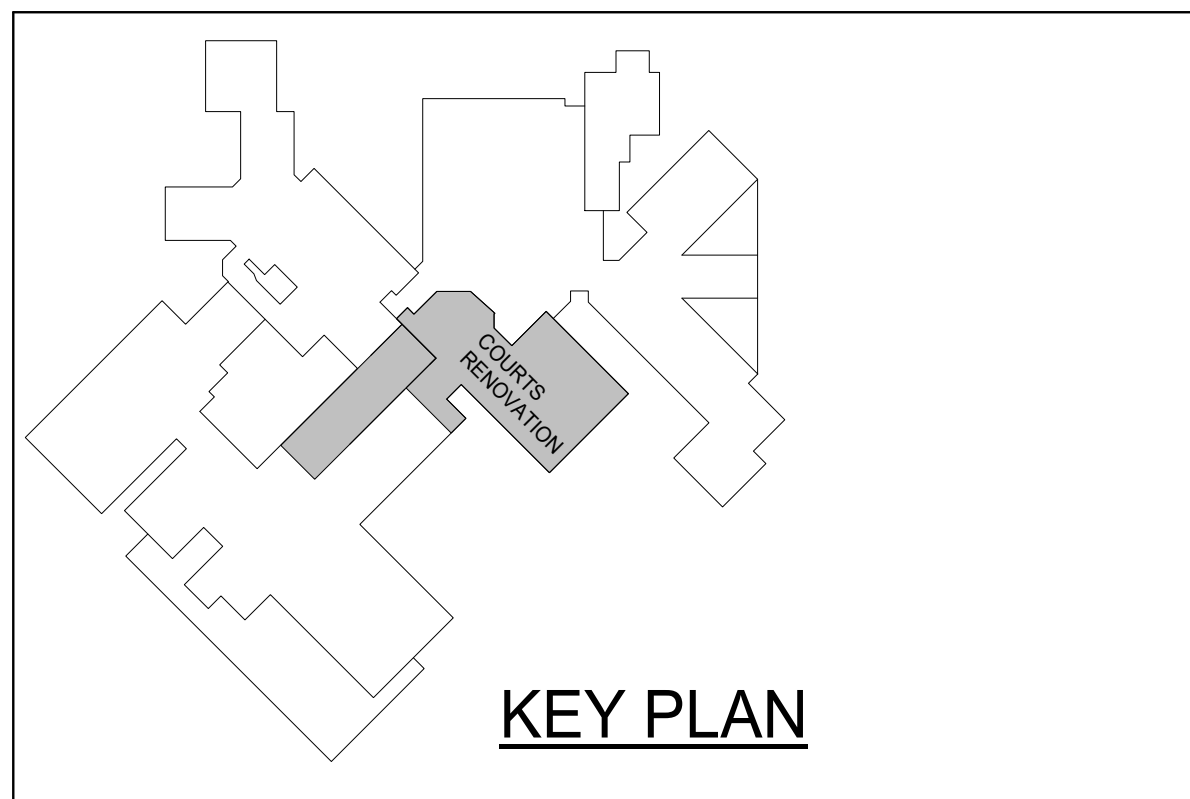
1 POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

POWER DEMOLITION NOTES:

- DN01** CONTRACTOR TO REMOVE ALL EXISTING POWER AND COMMUNICATION FROM THIS ROOM.
- DN02** EXISTING SURFACE RACEWAYS TO BE REMOVED - THESE CONTAIN POWER AND COMMUNICATION WIRING
- DN03** EXISTING RECEPTACLE LOCATED AT BENCH SEATING TO BE REMOVED. REMOVE DEVICE AND BACK BOX, CUT EXISTING CONDUIT BELOW THE SLAB AREA AND CONNECT TO NEW FLOOR BOX AS SHOWN ON SHEET E2.1. COORDINATE CUTTING, TRENCHING AND PATCHING OF EXISTING FLOOR SLAB WITH GENERAL CONTRACTOR TO REPAIR FLOOR FOR NEW FINISHES.
- DN04** EXISTING CEILING MOUNTED SPEAKER TO BE REMOVED AND RE-INSTALLED. RE-INSTALL IN NEW CEILING GRID AS SHOWN ON SHEET E2.1.
- DN05** EXISTING CEILING MOUNTED WAP TO BE REMOVED AND RE-INSTALLED. RE-INSTALL IN NEW CEILING GRID AS SHOWN ON SHEET E2.1.
- DN06** EXISTING THROUGH WALL A/C UNIT TO BE REMOVED. REMOVE DEVICE BACK BOX AND WIRING BACK TO POINT OF SOURCE.
- DN07** EXISTING SEMI-RECESSED CABINET TO BE REMOVED. THIS APPEARS TO BE AN EXISTING FIRE OR SECURITY PANEL THAT HAS BEEN ABANDONED OR IS BEING USED AS A PULL BOX. CONTRACTOR TO REMOVE EXISTING CABINET AND RELOCATE EXISTING WIRING THAT IS STILL IN SERVICE.
- DN08** EXISTING COMMUNICATION OUTLETS TO BE REMOVED.

- DN09** CONTRACTOR TO COORDINATE LOCATION OF EXISTING POWER AND LIGHTING CIRCUITING LOCATED IN EXISTING WALL FROM PREVIOUS RENOVATIONS. REMOVE ABANDONED WIRING, CONDUIT AND BOXES. RELOCATE EXISTING CIRCUITS THAT REMAIN TO ACCOMMODATE FOR INSTALLATION OF NEW MECHANICAL DUCTS, PLUMBING PIPING AND SPRINKLER PIPING.
- DN10** EXISTING LIGHT SWITCHES LOCATED IN BENCH SEATING. REFER TO LIGHTING DEMOLITION FOR ADDITIONAL NOTES
- DN11** EXISTING EXHAUST FAN ON ROOF TO BE REMOVED. DISCONNECT AND REMOVE ELECTRICAL CONNECTION.
- DN12** CONTRACTOR TO REMOVE EXISTING RECEPTACLE. MAINTAIN EXISTING CIRCUIT TO OTHER DEVICES AS REQUIRED.
- DN13** CONTRACTOR TO REMOVE RECEPTACLES AND DATA OUTLETS FROM WALL TO BE REMOVED. RELOCATE RECEPTACLE AND DATA OUTLETS TO NEW LOCATION SHOWN ON POWER PLAN AND RE CONNECT TO EXISTING CIRCUITS

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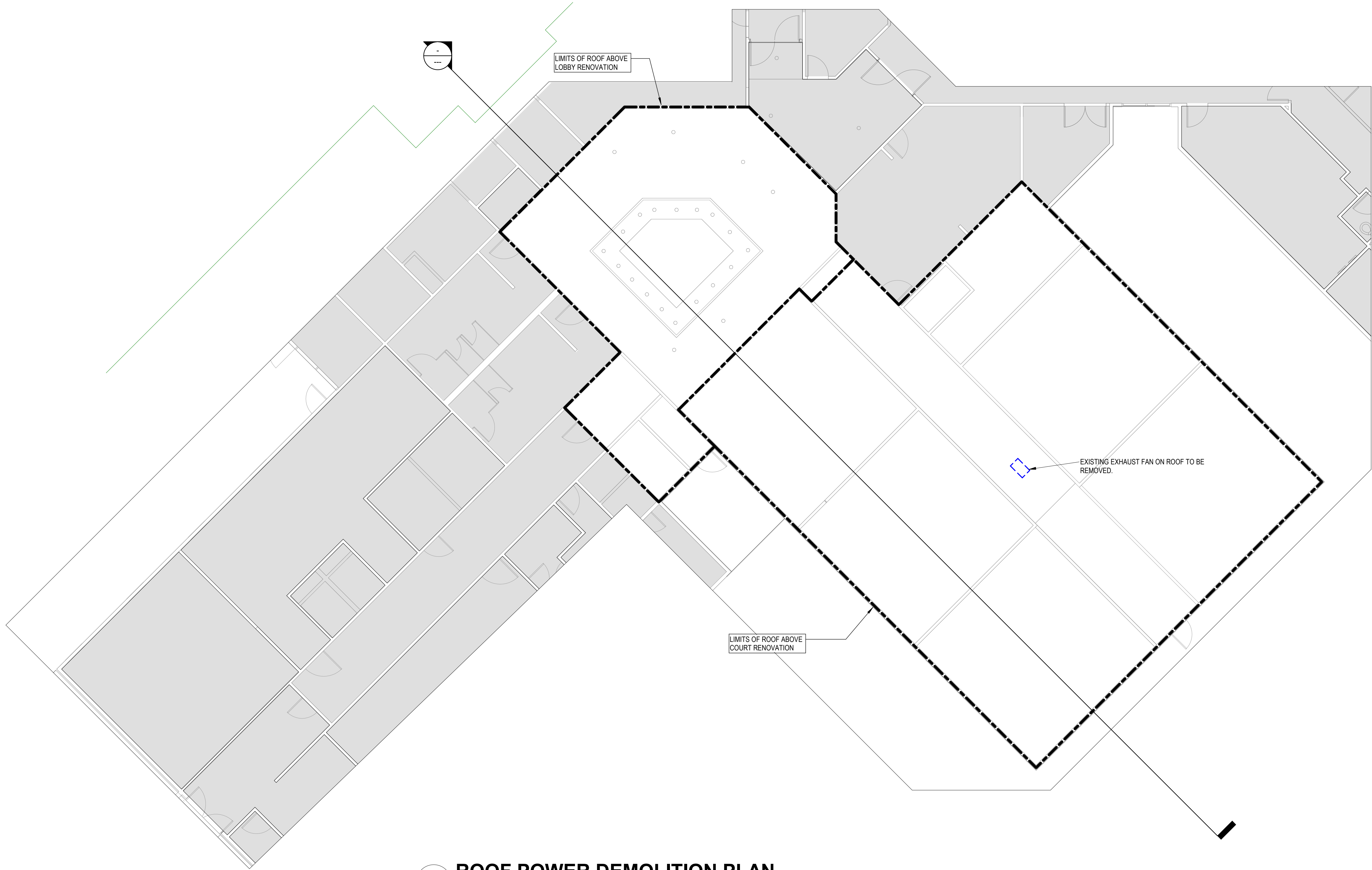


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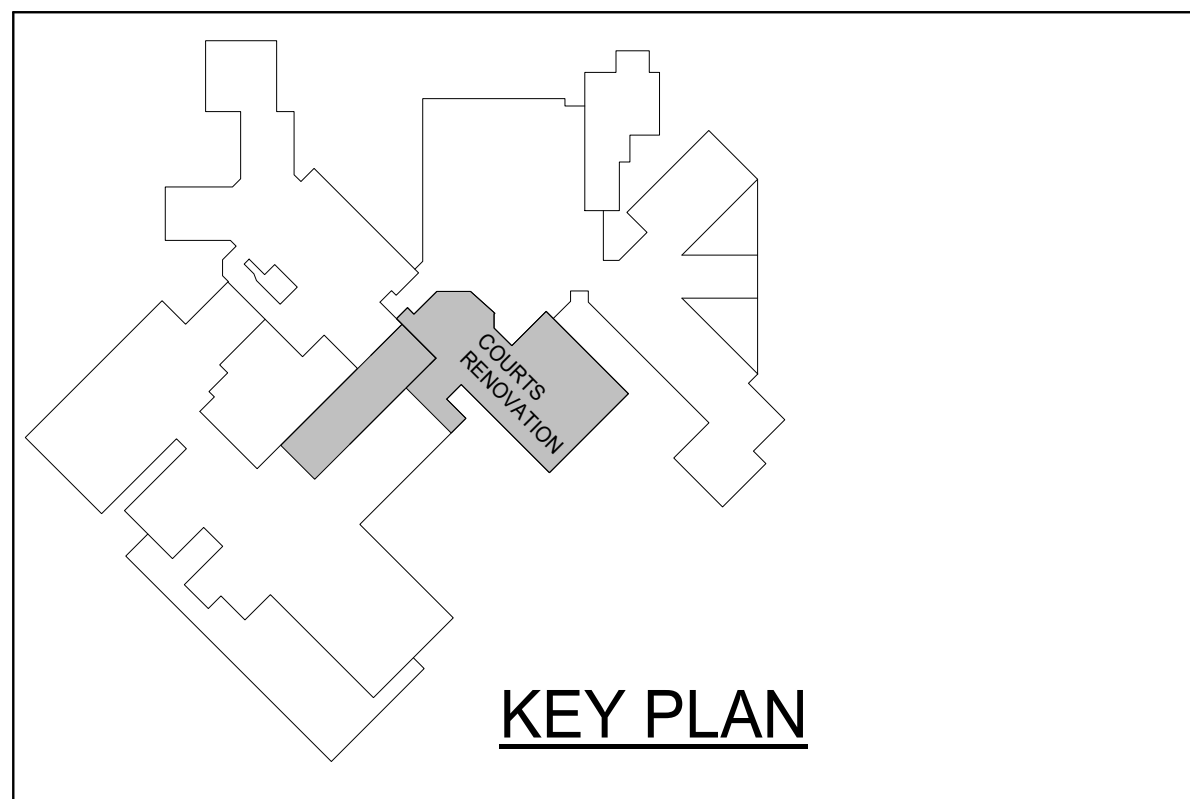
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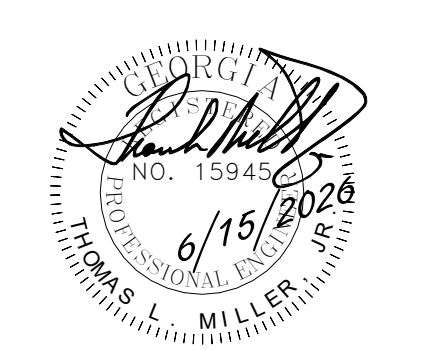
POWER DEMOLITION PLAN



1 ROOF POWER DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



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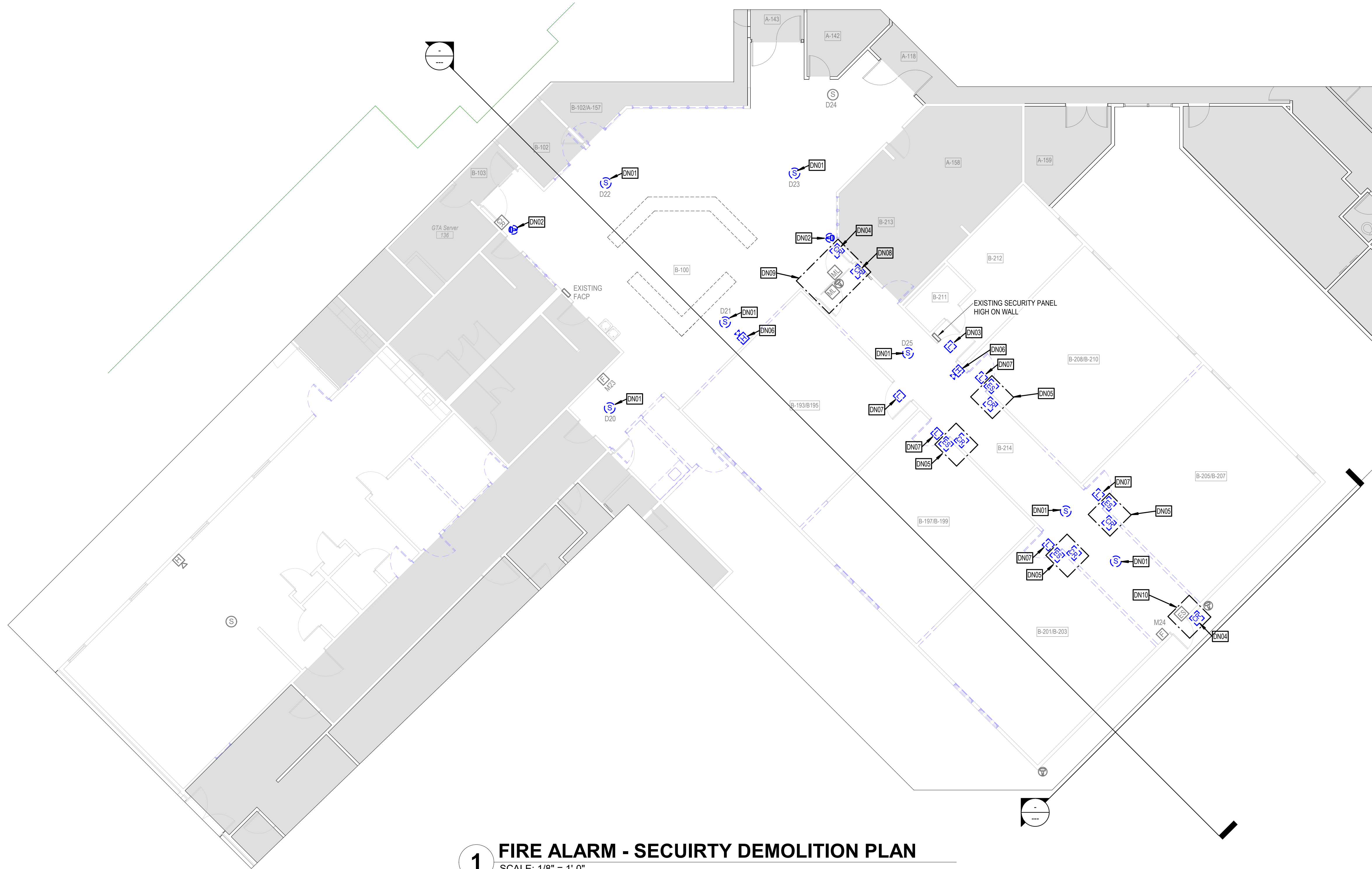
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ROOF POWER
 DEMOLITION PLAN

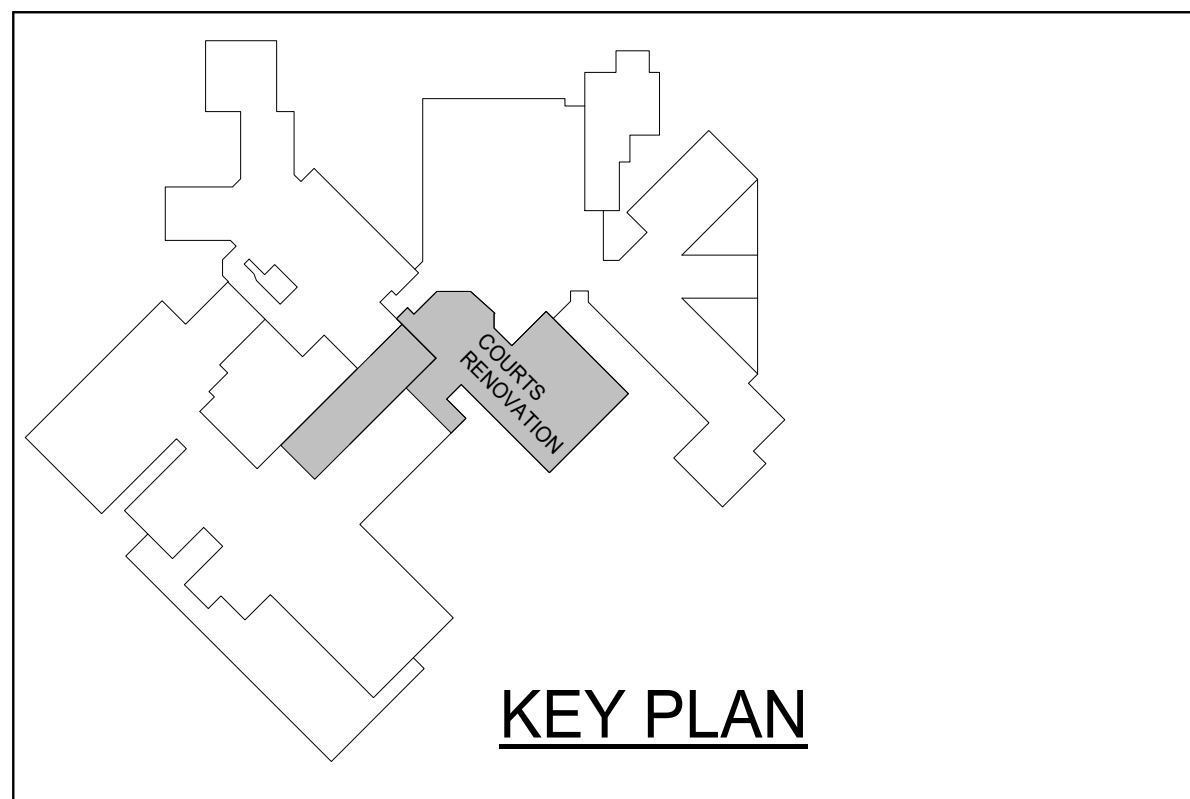


1 FIRE ALARM - SECURITY DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

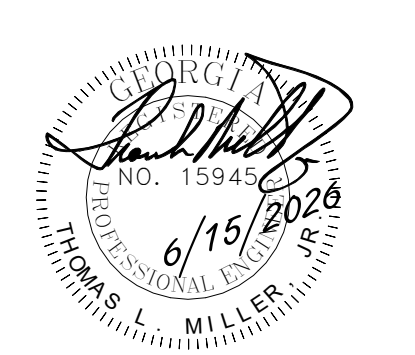
FIRE ALARM - SECURITY DEMOLITION NOTES:

- DN01** EXISTING CEILING MOUNT SMOKE DETECTOR TO BE REMOVED AND RE-INSTALLED IN NEW CEILING. SEE SHEET E3.1 FOR NEW LOCATION.
- DN02** EXISTING CEILING MOUNT SECURITY CAMERA TO BE REMOVED AND RE-INSTALLED IN NEW CEILING. SEE SHEET E3.1 FOR NEW LOCATION.
- DN03** EXISTING WALL MOUNTED FIRE ALARM STROBE TO BE REMOVED AND REPLACED WITH NEW STROBE AS SHOWN.
- DN04** EXISTING CARD READER TO BE REMOVED AND REPLACED WITH NEW CARD READER. SEE SHEET E3.1 FOR NEW CARD READER LOCATION.
- DN05** EXISTING ACCESS CONTROL (ELECTRIC STRIKE AND CARD READER) TO BE REMOVED.
- DN06** EXISTING WALL MOUNTED FIRE ALARM HORN/STROBE TO BE REMOVED AND REPLACED WITH NEW HORN/STROBE AS SHOWN.
- DN07** EXISTING STROBE LIGHT TO BE REMOVED.
- DN08** EXISTING CARD READER TO BE REMOVED AND REPLACED WITH NEW REQUEST TO EXIT DEVICE.
- DN09** EXISTING ACCESS CONTROL TO REMAIN AND RECONNECTED TO NEW SECURITY CONTROLLER. EXISTING EXTERIOR CARD READER TO BE REPLACED WITH NEW, EXISTING INTERIOR CARD READER TO BE REPLACED WITH NEW REQUEST TO EXIT DEVICE.
- DN10** EXISTING ACCESS CONTROL TO REMAIN AND RECONNECTED TO NEW SECURITY CONTROLLER. EXISTING EXTERIOR CARD READER TO BE REPLACED WITH NEW.

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**FIRE ALARM -
SECURITY
DEMOLITION PLAN**

ED3.1