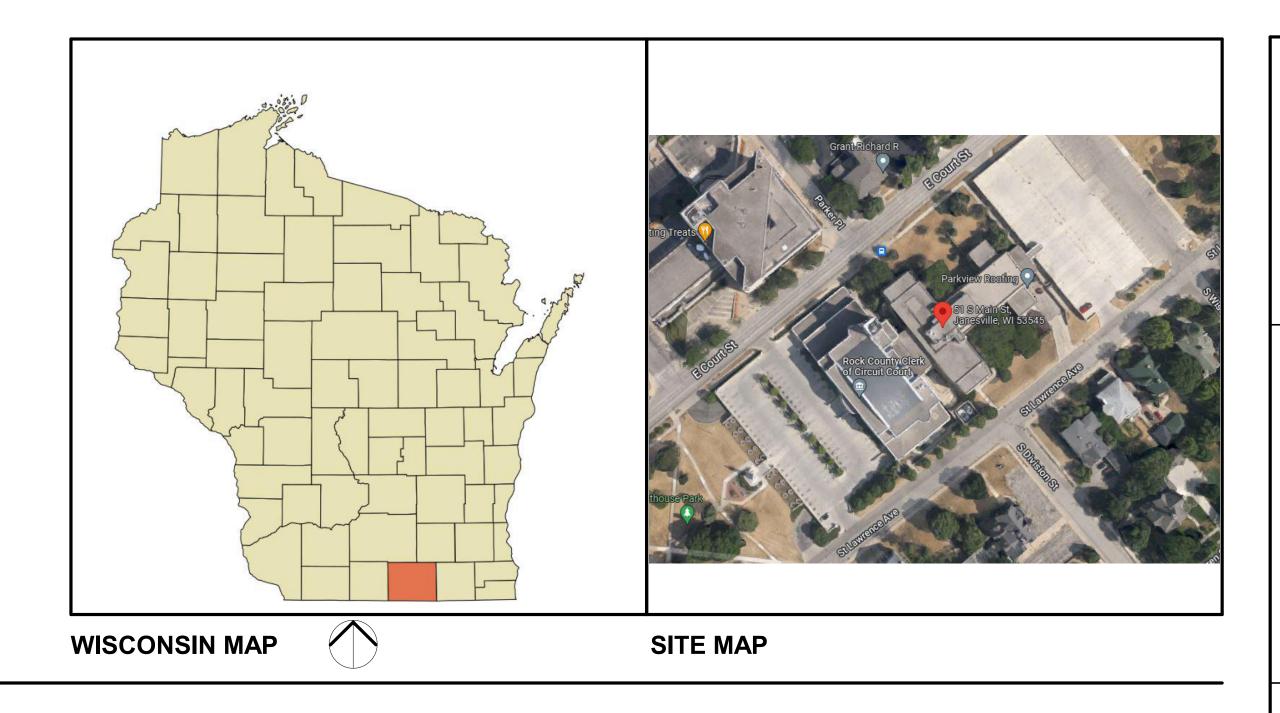
ROCK COUNTY COURTHOUSE ROCK COUNTY FACILITIES MGMT



COURTHOUSE PROBATE VAULT ALTERATION

ARCHITECTURAL

ELECTRICAL

MECHANICAL

FIRE PROTECTION

SECURITY ELECTRONICS

2 - A400 DETAILS

2 - A401 SCHEDULES

2 - G100 COVER SHEET / INDEX / LIFE SAFETY PLANS 2 - A100 DEMOLITION PLANS AND FLOOR PLANS

2 - EL ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES

2 - ML MECHANICAL SYMBOLS, ABBREVIATIONS AND NOTES

2 - E200 LIGHTING AND POWER SCHEDULE AND DETAILS

2 - A200 REFLECTED CEILING PLANS

2 - E100 LIGHTING AND ELECTRICAL PLAN

2 - E201 3RD FLOOR DATA AND TELECOM

2 - M000 MECHANICAL SPECIFCATIONS

2 - M500 MECHANICAL DETAILS 2 - M600 MECHANICAL SCHEDULES

2 - SE001 CABLE AND SYMBOL

2 - SE100 FLOOR LAYOUTS

2 - M100 THIRD FLOOR MECHANICAL PLAN

2 - F100 THIRD FLOOR FIRE PROTECTION PLAN

2 - A300 INTERIOR ELEVATIONS

ARCHITECT

Venture Architects

212 North 25th Street Milwaukee, Wisconsin 53233 Phone: (414) 271-3359 Fax: (414) 271-0939

ELECTRICAL

Harwood Engineering

255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554 Fax: (414) 773-9299

MECHANICAL

Harwood Engineering

255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554 Fax: (414) 773-9299

PROTECTION Harwood Engineering

PLUMBING / FIRE

255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554 Fax: (414) 773-9299

CODE REVIEW INFORMATION

CONSTRUCTION DOCUMENTS WERE PREPARED UTILIZING THE 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) FOR BUILDING DESIGN.

CHAPTER 3 – USE & OCCUPANCY CLASSIFICATION GROUP A3 - ASSEMBLY

GROUP B – BUSINESS Condition 4 - Free Movement Restricted. Remote Control Release Provided.

ASSEMBLY NON-JURIED COURTROOM - 670.57 SF/40 17 OCCUPANTS CALCULATED - 19 ACTUAL

BUSINESS OFFICE - 151.04 SF / 100 2 OCCUPANTS

TOTAL OCCUPANT LOAD= 19 OCCUPANTS

CHAPTER 5 - BUILDING HEIGHTS AND AREAS - UNCHANGING

TABLE 504.4 AND 506.2 GROUP B - BUSINESS TYPE IIB

SPRINKLERED

SECTION 504 ALTERATION - LEVEL 2

LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSTION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

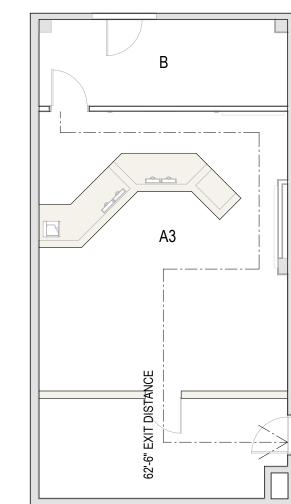
CONSTRUCTION TYPE IS IIB.

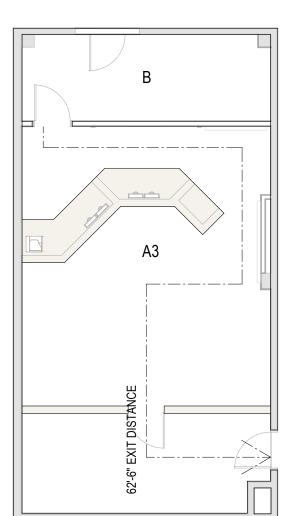
CHAPTER 9 – FIRE PROTECTION SYSTEMS BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM

CHAPTER 10 – MEANS OF EGRESS 1004 - OCCUPANT LOAD:

> 151 / 100 = 2 Office / Business: 671 / 40 = 17 Courtrooms:

1005.3.2 Egress Width - Other Components 19 occupants x 0.2 = 3.8" egress width required, 108" provided







THIRD FLOOR LIFE SAFETY PLAN / CODE

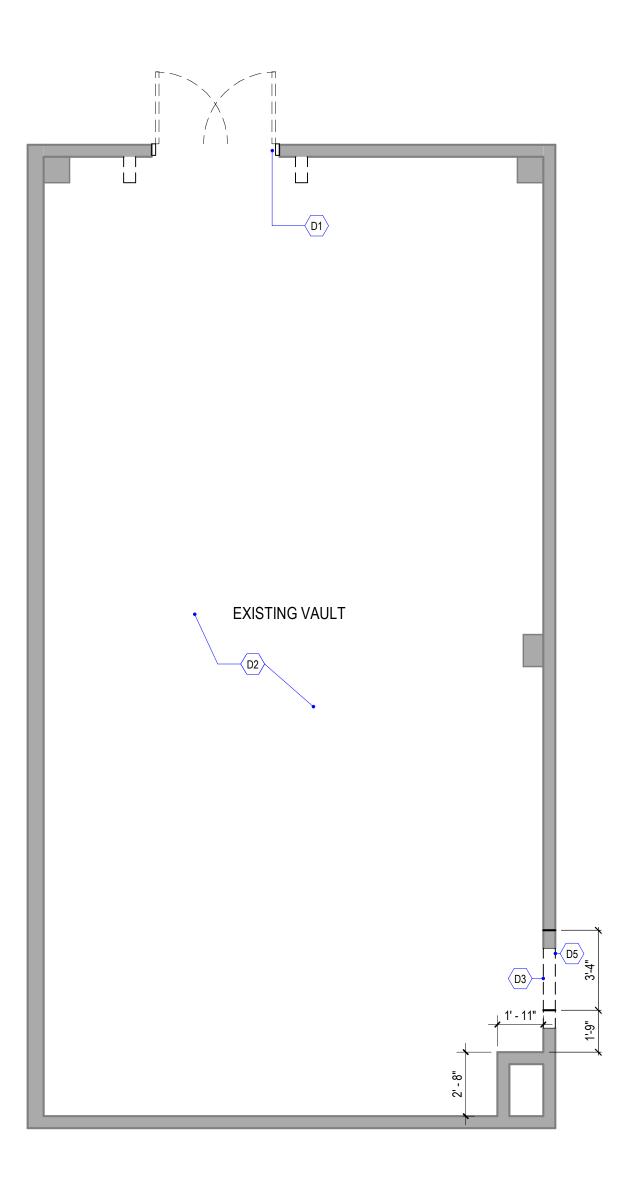


Reference: PLAN NORTH KEY PLAN		
KEY PLAN	Reference:	N
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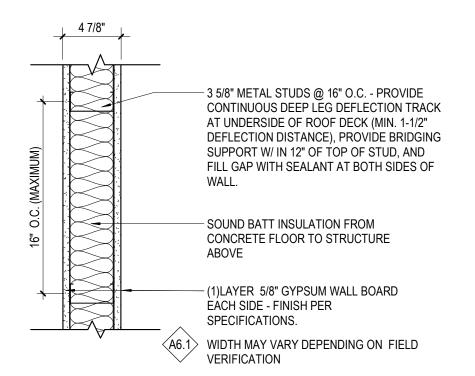
	INC I I CAN	
ROCK COUNTY COURTHOUSE ROCK COUNTY FACILITIES MGMT		51 S MAIN STREET
		E SAFETY PLANS

evis	sions:	
0.	Date:	Description:

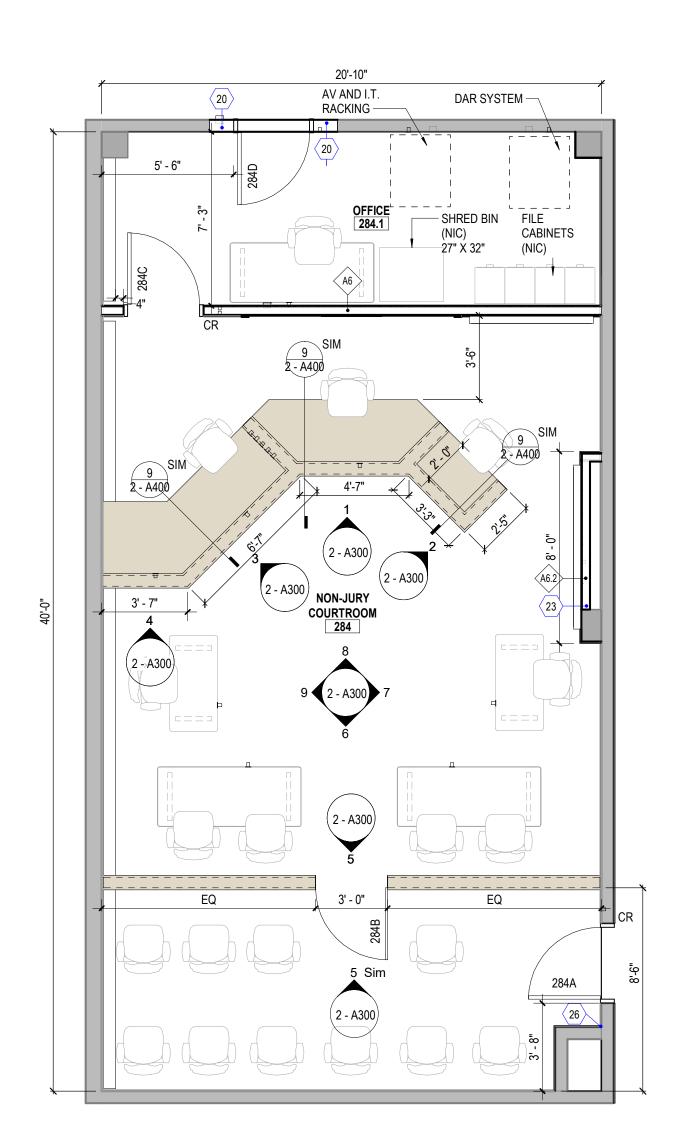
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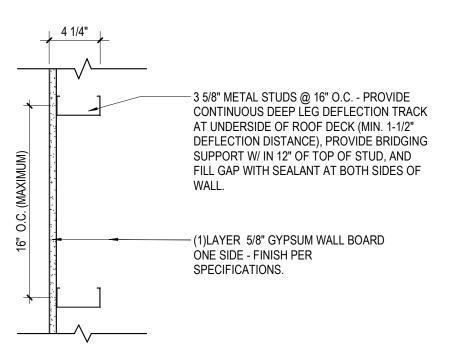






THIRD FLOOR PLAN

1/4" = 1'-0"



A6.2 : INTERIOR WALL

FLOOR PLAN KEYNOTES THIRD FLOOR

KEY

KEYNOTE DESCRIPTION

INFILL SIDE OF FRAME FOR NEW SPECIFIED DOOR AND FRAME.

ALIGN NEW GYPSUM WALLBOARD INFILL FRAMING WITH ADJACENT EXISTING WALLS FOR FLUSH FINISHES CONDITION. FOR FINISHES ON COURTROOM SIDE, SEE ROOM FINISH SCHEDULE. ON CORRIDOR SIDE, MATCH ADJACENT WALL FINISHES.

IF FIRE SUPPRESSION IS BELOW NEW CEILING, BOX AROUND IT.

REMOVE EXISTING DOOR, FRAME, AND CONCRETE FRAME SURROUND.

REMOVE EXISTING CEILING.

REMOVE EXISTING CEILING.

GENERAL PLAN NOTES

CUT AND SALVAGE PORTION OF STONE WAINSCOT.

- DIMENSIONS ARE TO FINISHED FACE OF WALL.
 ALL WALLS TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE
- INDICATED.

 3. DOOR JAMBS TO BE 4" FROM ADJACENT WALLS UNLESS
- OTHERWISE INDICATED.
 4. FOR ANY WORK IN EXISTING BUILDING, PATCH ALL DISTURBED
- WALLS, FLOORS AND CEILINGS TO MATCH SURROUNDING MATERIALS AND FINISHES.
- 5. FURNITURE SHOWN IN PLAN NOT IN CONTRACT.6. FIELD VERIFY DIMENSIONS OF EXISTING WALLS.

GENERAL DEMOLITION NOTES

EXISTING WALLS TO REMAIN

TEMS FOR DEMOLITION

CONSTRUCTION LIMITS

- 1. GENERAL CONTRACTOR SHALL PROTECT AREAS ADJACENT TO PROJECT CONSTRUCTION. ANY AND ALL DAMAGE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INTERIM STORAGE
 OF ALL EQUIPMENT AND FIXTURES SUCH AS: TOILET ROOM ACCESSORIES,
 CORNER GUARDS, BUMPER GUARDS, FIRE EXTINGUISHERS, AND FIRE
 EXTINGUISHER CABINETS. SAVE FOR POSSIBLE REUSE/RELOCATION.
 ADDITIONAL DEMOLITION, REMOVAL OR REFINISHING INFORMATION MAY
- ALSO BE FOUND ON THE NEW CONSTRUCTION PLANS.

 4. ALL EXISTING CONDITIONS SHALL BE REMOVED AS REQUIRED TO ACCOMODATE PROPOSED CONSTRUCTION WHETHER OR NOT NOTED ON
- DEMOLITION DRAWINGS.

 5. FIELD VERIFY THAT PARTITIONS SCHEDULED FOR REMOVAL ARE NOT STRUCTURAL AND CONTAIN NO LOAD BEARING ELEMENTS. JE ANY
- STRUCTURAL AND CONTAIN NO LOAD BEARING ELEMENTS. IF ANY CONFLICTS OCCUR, CONTACT THE ARCHITECT IMMEDIATELY.

 6. SEE MECHANICAL, ELECTRICAL, PLUMBING & NEW CONSTRUCTION PLANS FOR ADDITIONAL DEMOLITION, REMOVAL OR REFINISHING INFORMATION,
- CUT OUT LOCATIONS, INFILL AND PATCHING OF FLOORS AND WALLS.

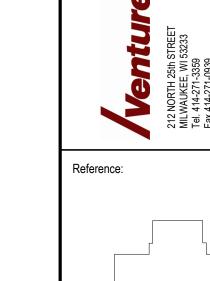
 7. EXISTING FIXTURES AND EQUIPMENT THAT ARE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. IF SAID FIXTURES AND EQUIPMENT IS NOT DESIRED BY OWNER, IT SHOULD BE DISPOSED.

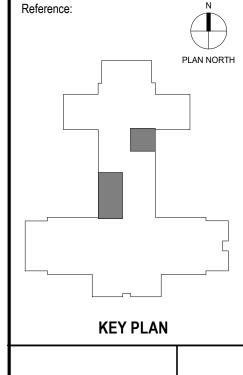
 8. DEMOLITION AROUND COLUMNS AND OF FIRE RATED ENCLOSURES NEED TO
- BE VERIFIED BY THE ARCHITECT.

 9. ALL DIMENSIONS GIVEN ON DEMOLITION DRAWING ARE TO BE FIELD
- VERIFIED AND COORDINATED AGAINST NEW CONSTRUCTION PLANS.

 10. REMOVE EXISTING FLOORING, ADHESIVE & BASE THROUGHOUT CONSTRUCTION LIMITS. PROVIDE A CLEAN SURFACE READY TO RECEIVE
- NEW FLOOR FINISH MATERIALS.

 11. REMOVE EXISTING CEILINGS, SOFFITS AND CEILING MOUNTED EQUIPMENT WHERE NEW CEILING FINISHES ARE SPECIFIED.





Revisions:
No. Date: Description:

Spect Title

Graphic Scale

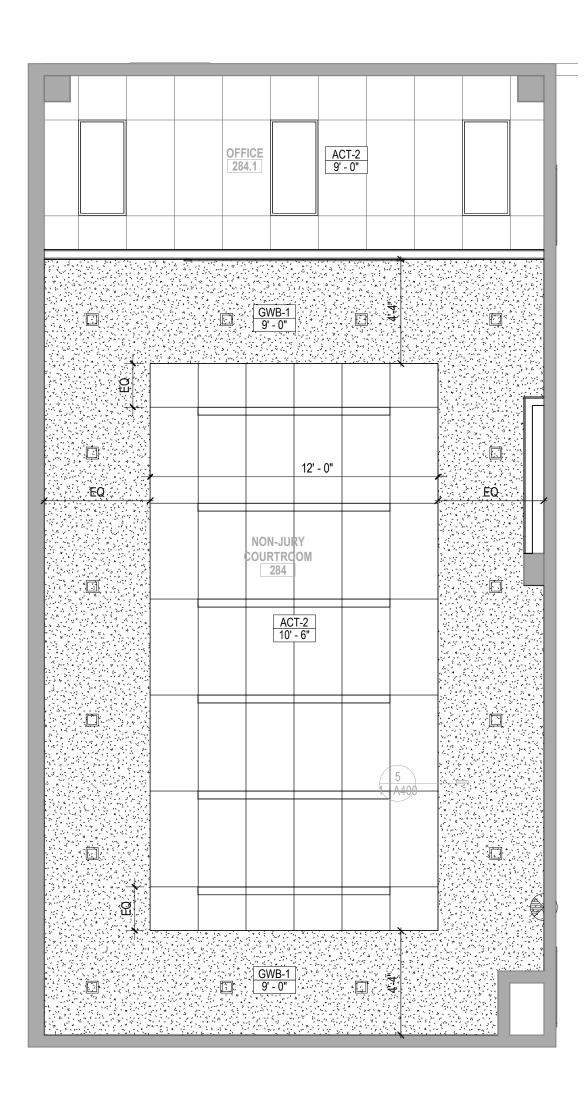
Project Number

210105.00

Set Type BID SET

1/05/2023

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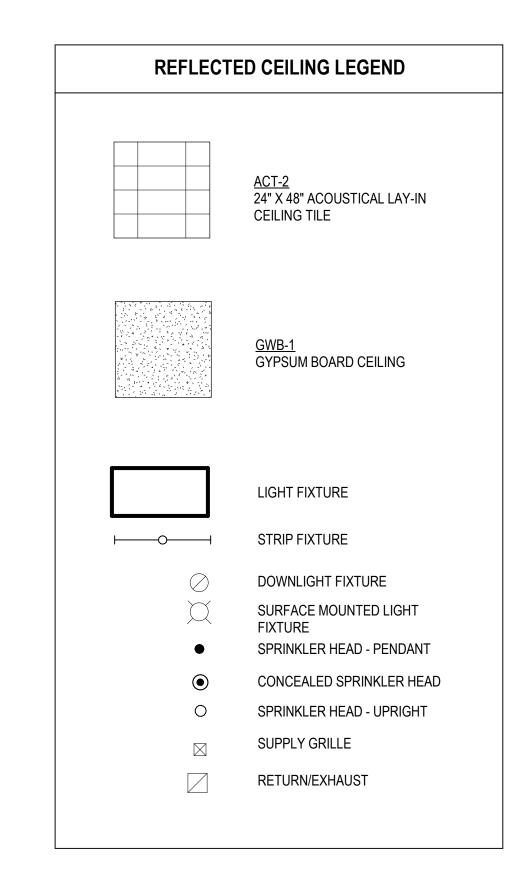


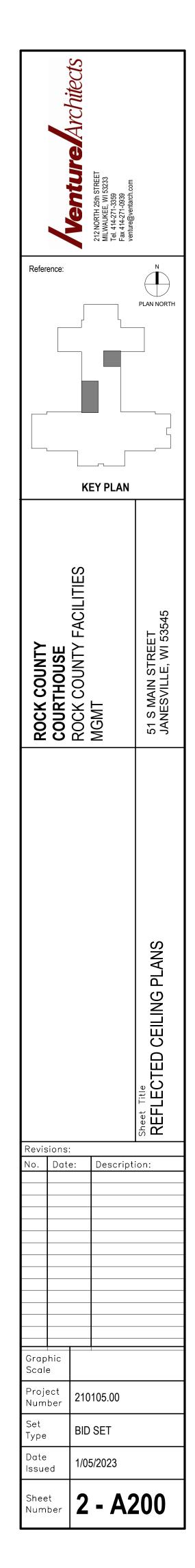
REFLECTED CEILING GENERAL NOTES

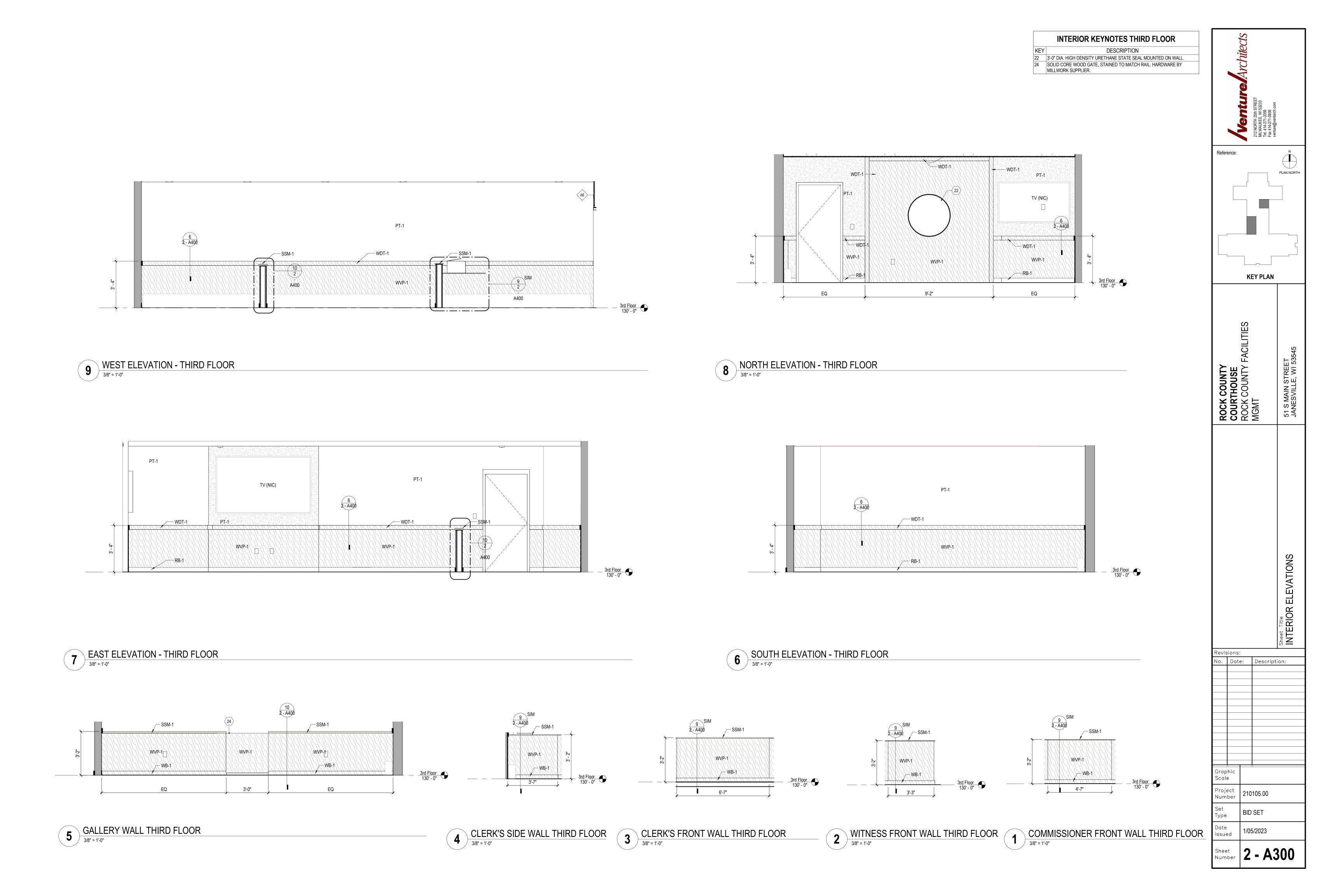
- 1. SEE ROOM FINISH SCHEDULE, SHEET A401, FOR ADDITIONAL INFORMATION ON CEILING MATERIAL TYPES.
- 2. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES, LOCATIONS AND OTHER DEVICES.
- 3. SEE MECHANICAL DRAWINGS FOR SUPPLY AND RETURN
- GRILLE TYPES AND LOCATIONS.

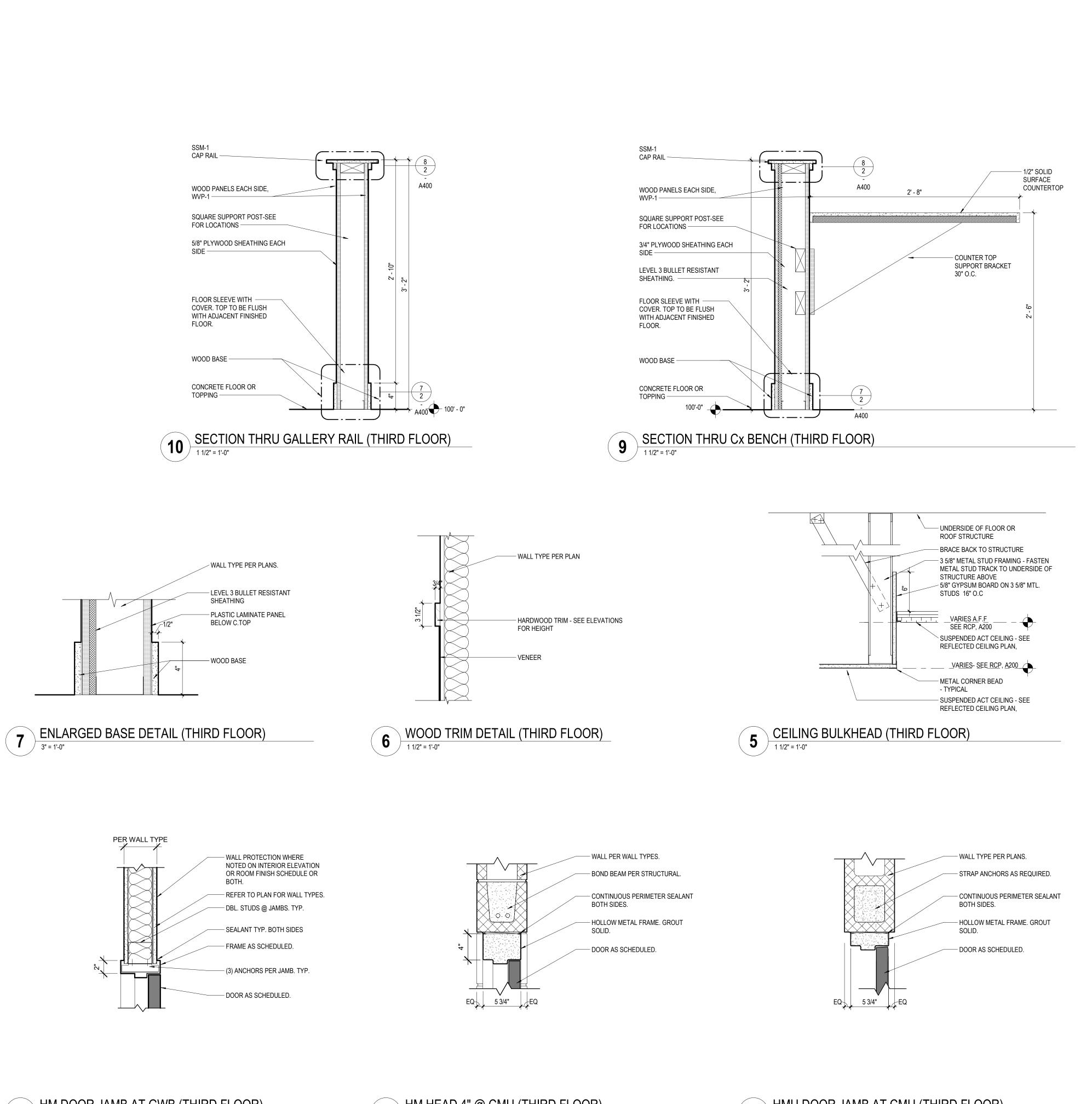
 4. FOR ADDITIONAL WALL REINFORCING SEE STRUCTURAL
- DRAWINGS AND SECURITY PLAN KEY.
 5. SEE WALL TYPES, SHEET A100, FOR ACTUAL WALL
- THICKNESS AND TYPES.

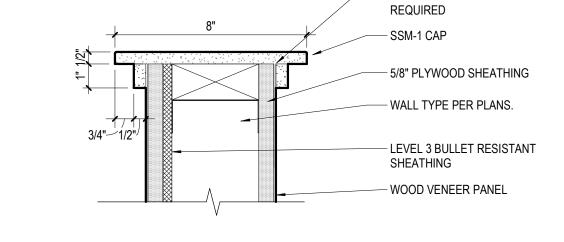
 6. SEE CODE REVIEW SHEET G100 FOR ADDITIONAL WALL
- SEE CODE REVIEW SHEET G100 FOR ADDITIONAL WA CONSTRUCTION REQUIREMENTS.
- 7. ALL WALLS FROM CONCRETE FLOOR TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE ABOVE UNLESS OTHERWISED
- 8. SEE FIRE PROTECTION DRAWINGS FOR FIRE PROTECTION SPRINKLER HEAD LOCATIONS, TYPES AND SYSTEMS.



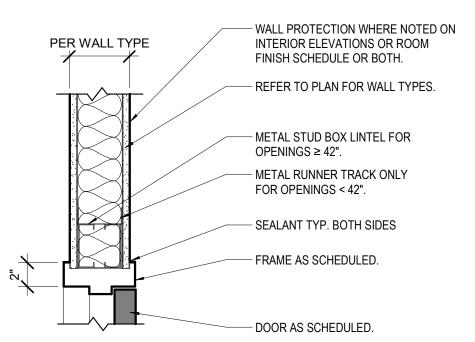




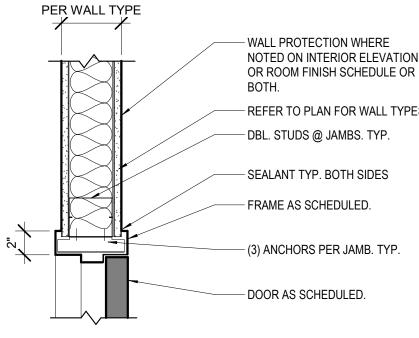






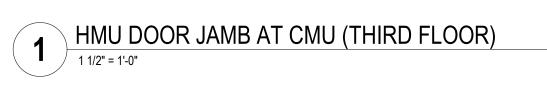


BACKER AS



3 HM DOOR JAMB AT GWB (THIRD FLOOR)





Reference:

KEY PLAN

Sheet Title DETAILS

No. | Date: | Description:

Graphic

Project

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Issued

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1/05/2023

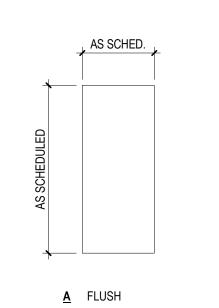
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ROCK COUNTY COURTHOUSE ROCK COUNTY FACILITIES MGMT

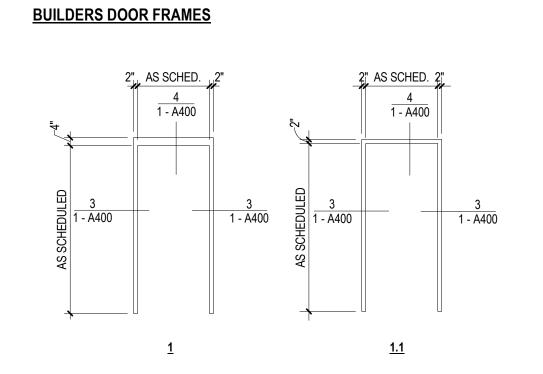
				POOM E	INICH COHEI	DULE (THIRD FL	00P)				
				KOOIVI F	INION SCHEI		OOK)				
		FL	OOR			WALLS		CAE	BINETRY		
NUMBER	ROOM NAME	FINISH	BASE	NORTH	SOUTH	EAST	WEST	CEILING FINISH	MILLWORK	COUNTERTOP	REMARKS
284	NON-JURY COURTROOM	CPT-1	WB-1	PT-1 / WVP-1	PT-1 / WVP-1	PT-1 / WVP-1	PT-1 / WVP-1	ACT-2/ GWB-1	WVP-1	SS-1	
284 1	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-2	WVP-1		

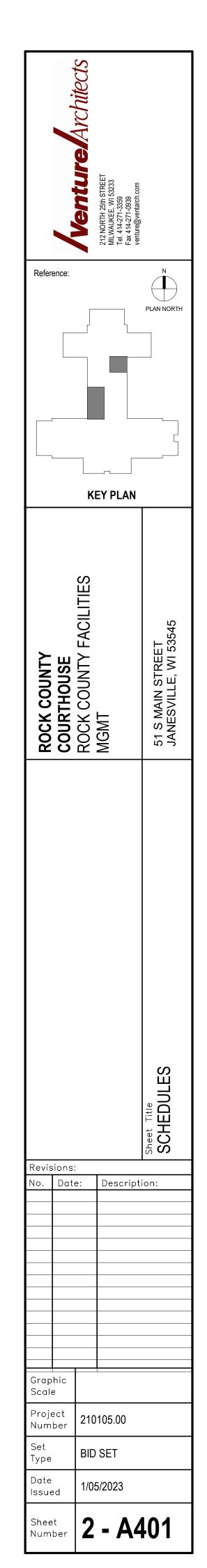
			COLOR & MATERIAL SCHEDULE		
MATERIAL	MARK	MANUFACTURER	DESCRIPTION	SIZE	INSTALLATION COMMENTS
Acoustical Ceiling					
Acoustical Ceiling	ACT-2	Armstrong	general - FOH	24"X48"	
Carpet					
Carpet	CPT-1	Tarkett	Style: Aftermath II; Color: Hopsack 23501		For use in courtrooms
Cynaum Wall Board					
Gypsum Wall Board Gypsum Wall Board	GWB-1				
	1			1	-
Paint	DT 4	Ole a marine NACIII	Oalaw 0070 Walmar Turals O. J. Mar. J.M. J.		O - m - m - l l i m l 4 b l
Paint	PT-1	Sherwin Williams 3190	Color: 8670 Walrus Tusk Custom Manual Match; Finish: Eggshell		General Light Neutral
Paint	PT-2	Sherwin WIlliams	Color: SW 7503 Sticks and Stones; Finish: Eggshell		Dark Neutral Accent
Paint	PT-3	Sherwin WIlliams	Color:SW 6389 Butternut; Finish: Eggshell		Gold Accent
Paint	PT-4	Sherwin Williams	Color:SW 7047 Porpoise; Finish: Satin		Door Frames
	'				
Resilient Base	DD 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		400	
Resilient Base	RB-1	Johnsonite	Color: Moonrock	4"h	
Solid Surface					
Solid Surface	SSM-1	Corian	Color: Matterhorn		
Wood Base					
Wood Base	WB-1		Wood Flnish/ Color Match Formica Camel Elm : Formica Camel ELM 5795 NG		
Wood Trim					
Wood Trim	WDT-1		Wood Flnish/ Color Match Formica Camel Elm: Formica Camel ELM 5795 NG		
Wood Veneer Panel					
Wood Veneer Panel	WVP-1	Formica	Color: Match Formica Camel Elm; 5795-5G; Carmel Elm, Natural Grain		

	DOOR AND FRAME SCHEDULE - BUILDERS (THIRD FLOOR)														
DOOR DOOR									FRAME						
NO.	ROOM	Type	Width	Height	Material	Glass	Type	Width	Height	Material	Glass	(Minutes)	GROUP	REMARKS	
284A	NON-JURY COURTROOM	Α	3' - 0"	7' - 0"	WD		1	3' - 4"	7' - 4"	HM			1	Card Reader	
284C	OFFICE	Α	3' - 0"	7' - 0"	WD		1.1	3' - 4"	7' - 2"	НМ			1	Card Reader	
284D	OFFICE	Α	3' - 0"	7' - 0"	WD		1	3' - 4"	7' - 4"	НМ			2		



BUILDERS DOOR PANELS





GENERAL RENOVATION/DEMOLITION NOTES:

- ELECTRICAL DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE. FOR AREAS BEING REMODELED, WORK SHOWN REFLECTS INFORMATION SHOWN ON AS-BUILT PLANS AND FIELD OBSERVATION: IT IS NOT GUARANTEED 100% ACCURATE. THIS CONTRACTOR MUST FIELD VERIFY CONDITIONS AND MAKE NECESSARY
- ADJUSTMENTS WITHOUT EXTRA COSTS TO THE PROJECT TO SUIT ACTUAL NEEDS. THE CONTRACTOR SHALL REWIRE/REROUTE/RELOCATE, AS REQUIRED DUE TO CONSTRUCTION, ALL EXISTING CIRCUITS AND EQUIPMENT WHICH ARE TO CONTINUE IN OPERATION.
- MAINTAIN THE INTEGRITY OF ALL SYSTEMS AFFECTED BY THE REMOVAL OR ADDITION OF ELECTRICAL DEVICES AND CONTROLS IN REMODELED AREAS.
- ALL ELECTRICAL PANELS SHALL REMAIN IN PLACE AS IS. PROVIDE COMPLETE UPDATED DIRECTORIES FOR ALL PANELS AND SWITCHBOARD AFFECTED BY CONSTRUCTION.
- CIRCUITS INDICATED ARE INTENDED TO DENOTE WHICH DEVICES/FIXTURES ARE TO BE WIRED TO A COMMON CIRCUIT BREAKER, AND NOT ITS POSITION IN THE PANEL. UTILIZE RELIEVED/SPARE CIRCUIT BREAKER MOUNTING SPACES. PROVIDE CIRCUIT BREAKERS AS REQUIRED. REBALANCE LOADS BETWEEN PHASES (MAX. 7.5%) UPON COMPLETION OF WIRING.
- NEW EXIT LIGHTS SHALL BE WIRED TO THE NEAREST AVAILABLE UNSWITCHED
- LIGHTING CIRCUIT SERVING THE AREA THAT EXIT LIGHT IS INSTALLED. OCCUPANCY SENSOR LOCATIONS SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL LOCATION SHALL BE DETERMINED AT SITE PER MANUFACTURER'S RECOMMENDATIONS AND LAYOUT. PROVIDE MINIMUM 4'-0" OF FLEX CONDUIT/WIRES SO THAT THE SENSOR CAN BE FIELD ADJUSTED FOR PROPER COVERAGE DURING FINAL TESTING. THE TRAINED FACTORY PERSONNEL SHALL PERFORM THE FINAL TIME
- SETTINGS AND TESTING. ALL EXISTING DEVICES WHICH ARE TO REMAIN AND ARE LOCATED ON NEW FURRED OUT WALLS SHALL BE PROVIDED WITH APPROPRIATE EXTENSION RINGS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC WALLS.
- ALL EXISTING DEVICES WHICH ARE NOT SHOWN ON THESE DRAWINGS OR DIRECTED BY A/E SHALL BE REMOVED
- EXISTING RECEPTACLES WHICH WOULD BE RENDERED INACCESSIBLE, DUE TO THE PLACEMENT OF NEW CASEWORK, SHALL BE RELOCATED TO THE KICK PLATE OF THE CASEWORK, OR OTHERWISE RELOCATED SUCH THAT RECEPTACLES ARE
- ALL NEW DEVICES AND COVER PLATES SHALL MATCH EXISTING UNLESS OTHERWISE DIRECTED BY A/E.
- ALL REMOVED DEVICES AND NOT REPLACED IN ANY WAY EXPOSING AN EMPTY BACK BOX, THE CONTRACTOR SHALL PROVIDE A STAINLESS STEEL COVER PLATE.
- ELECTRICAL RACEWAYS SHALL BE CONCEALED IN CEILING CAVITY OR IN WALLS WHERE POSSIBLE. OTHERWISE RACEWAY SHALL BE EXPOSED WIREMOLD TYPE. 200. 500 OR 700 AS NECESSARY TO ACCOMMODATE WIRES.
- ELECTRICAL RACEWAYS SHALL BE CONCEALED IN CEILING CAVITY OR IN WALLS. EXPOSED RACEWAYS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED AND/OR APPROVED BY A/E.
- WALL MOUNTED SPEAKERS, FIRE ALARM DEVICES, ETC. SHALL BE RELOCATED AS NECESSARY TO ACCOMMODATE NEW CEILING HEIGHTS INCLUDE FISH WIRE IN ALL NON-POWER CONDUITS.
- VERIFY EXACT LOCATION OF LIGHTING FIXTURES IN THE FIELD TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT, DUCT WORK, AND PIPES.
- IN ALL LOCATIONS WHERE RE-USE OR EXTENDING OF AN EXISTING CIRCUIT IS INDICATED ON THE PLANS, THE CONTRACTOR SHALL VERIFY THAT THE EXISTING CIRCUIT HAS ENOUGH CAPACITY TO HANDLE THE ADDITIONAL LOAD. IF REQUIRED CAPACITY DOES NOT EXIST, THE CONTRACTOR SHALL EXTEND A NEW CIRCUIT TO FEED THE NEW EQUIPMENT. NO MORE THAN 6 DUPLEX RECEPTACLES SHALL BE ON
- ONE CIRCUIT. REMOVE AND REPLACE EXISTING CEILING TILE REQUIRED FOR INSTALLATION OF
- CONDUITS AND CABLES. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR. FIRE AND/OR SMOKE RATINGS OF WALLS, FLOORS AND CEILINGS SHALL BE MAINTAINED. IF THE INTEGRITY IS SACRIFICED THEN THE BARRIER SHALL BE REPAIRED TO ITS ORIGINAL RATING. ALL PENETRATIONS SHALL BE PROPERLY
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING AND AIMING ALL
- FIXTURES TO THE OPTIMUM DISTRIBUTION AND OWNER'S SATISFACTION. COORDINATE CABLE TYPES AND INSTALLATIONS FOR WORK ABOVE CEILING WITH HVAC FOR PLENUM VS. NON-PLENUM RATING OF CEILING SPACE. INSTALLATION
- SHALL FOLLOW GUIDELINES FOR RATINGS OF CEILING CAVITY. THE CONTRACTOR SHALL NOTE THAT THE EXISTING BUILDING WILL REMAIN IN SERVICE DURING CONSTRUCTION. AREAS OF THE BUILDING WILL BE VACATED AS REQUIRED TO FACILITATE CONSTRUCTION. PROCEED WITH THE COMPLETION OF THE WORK IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH OWNER'S OPERATION. ALL WORK SHALL BE DONE IN A MANNER AND TIME ACCEPTABLE TO OWNER. OUTAGES AND OTHER WORK RENDERING EXISTING EQUIPMENT INOPERATIVE SUCH AS BUT NOT LIMITED TO THE FIRE ALARM SYSTEM SHALL BE HELD TO A MINIMUM: PRIOR ARRANGEMENTS FOR EACH SHALL BE MADE WITH OWNER AND SHALL BE ACCEPTABLE AS TO TIME AND DURATION. ALL SHUTDOWNS SHALL BE COORDINATED WITH OWNER 2 WEEKS IN ADVANCE. ALL EXISTING SYSTEMS BEING MODIFIED SHALL BE OPERABLE WHEN CONTRACTOR
- MODIFYING THE SYSTEM IS NOT ON-SITE. THE CONTRACTOR SHALL DO THE NECESSARY DEMOLITION WORK IN THE AFFECTED AREAS INCLUDING THE REMOVAL OF LIGHTING FIXTURES, LAMPS, WIRING, ACCESSIBLE CONDUIT, AND ELECTRICAL EQUIPMENT. IN ADDITION, PRECEDING DEMOLITION WORK, HE SHALL DE-ENERGIZE ALL CIRCUITS IN THE AFFECTED AREAS AND WHERE WIRING IS ROUTED THROUGH THESE AREAS SERVING AREAS OF THE BUILDING REMAINING IN SERVICE, PROVIDE TEMPORARY AND/OR PERMANENT WIRING AS REQUIRED. ALSO, WHERE NECESSARY TO MAINTAIN SERVICE IN OTHER AREAS. PROVIDE NECESSARY AND REQUIRED SOURCES OF POWER AND TEMPORARY WIRING. REMOVE ALL CONDUIT AND WIRING OF EQUIPMENT BEING REMOVED AND/OR ABANDONED BACK TO SOURCE. REMOVE ALL LOW-VOLTAGE CABLES NOT BEING
- SEE DEMOLITION DRAWINGS OF OTHER TRADES. THIS CONTRACTOR IS RESPONSIBLE FOR DISCONNECTION, REMOVAL AND RE-ROUTING OF EXISTING ELECTRICAL WORK. JUNCTION BOXES INSTALLED IN EXTERIOR WALLS SHALL NOT PENETRATE THE VAPOR
- BARRIER. IF THE INTEGRITY IS SACRIFICED THEN THE BARRIER SHALL BE REPAIRED TO ITS ORIGINAL RATING. ANY EXISTING CODE VIOLATIONS CONCEALED DURING PRE-BID WALK THROUGH SHALL BE BROUGHT TO A/E'S ATTENTION FOR DISPOSITION. ANY EXISTING CODE
- VIOLATIONS EXPOSED TO VIEW SHALL BE THE RESPONSIBILITY OF THE E.C. TO CORRECT AT NO ADDITIONAL CHARGE TO OWNER. PLASTIC TIE WRAPS SHALL NOT BE USED TO SUPPORT ANY RACEWAYS OR OPEN AIR
- FIRE ALARM DEVICES MAY BE SHOWN OFF CENTERED SO THAT ROOM NAMES AND NUMBERS ARE VISIBLE. CONTRACTOR SHALL CENTER THESE DEVICES IN THE ROOMS

SECTION 26 00 00 ELECTRICAL WORK

- A. The Contractor shall provide all labor and materials to affect a complete electrical installation in accordance with the plans and specifications.
- B All work shall be in accordance with local, state, International Building, and National Electrical Codes.
- C. All equipment shall be new and UL listed for the intended purpose.
- D. The Contractor shall apply for all permits and pay all fees.
- E. The electrical contractor shall submit a Bill of Material and shop drawings upon request of the A/E.
- The Contractor shall conduct final tests to demonstrate compliance with plans and specifications. Owner shall be present for demonstration of all
- G. All work shall be guaranteed for one year after date of final acceptance.
- H. All electrical equipment shall be indexed. Provide nameplates describing panel name, usage, voltage, phase, # of wires, and equipment. Update existing and new panel directories (typed, not free hand) where affected by work.
- Cutting, Patching and Refinishing: The Contractor shall provide all openings in new and existing construction except where noted on the plans. The Contractor shall caulk and seal all penetrations and do all patching and refinishing of existing surfaces.
- 1. A/E: Architect and/or Engineer 2. Provide: Furnished, installed, wired and connected by the Contractor.
- 3. Contractor: The person or group responsible for project construction.
- K. Demolition, Renovation and Disposition of Existing Equipment: 1. All work required in the existing building shall be done in a manner and time acceptable to the Owner and shall be acceptable as to time and duration
- 2. Existing electrical equipment not otherwise noted, or in conflict with construction, shall be removed and/or relocated as indicated on the drawings, as directed or required. Remove all electrical equipment released from service as a result of construction, and no equipment removed shall be reused except as specifically directed on the drawings or elsewhere herein. All electrical equipment, apparatus and hardware removed and not reused, and not retained by the Owner, shall become the property of the contractor and shall be removed from the site.
- 3. Any existing circuits or equipment not shown on the drawings and which are logically expected to be continued in service, and which may be interrupted or disturbed during construction, shall be reconnected in an approved manner. In addition, any existing circuit or equipment which may require relocation or rerouting as a result of construction shall be considered a part of the work of this branch and shall be done by the Contractor with no additional
- compensation 4. The Contractor shall do the necessary work in the affected areas including the removal of lighting fixtures, lamps, wiring devices, wiring and electrical equipment. In addition, and preceding demolition work, de-energize all circuits in the affected areas where wiring is routed through these areas serving areas of the building remaining in service, provide temporary and/or permanent wiring as required. Also, where necessary to maintain service in other areas, provide necessary and required sources of power and temporary work.
- L. Shop Drawings and Maintenance Manuals:
- 1. All shop drawings when submitted shall bear the contractor's name, date and approval. Shop drawings will not be reviewed by the A/E if this requirement is not
- 2. Shop drawings shall be submitted electronically in pdf format with an index sheet describing contents therein.
- 1. The Contractor, in full knowledge of requirements of the contract documents relative to electrical work, guarantees that the electrical installation has been done in full accord with the same. Additionally, the Contractor shall warrant and maintain, remedy and/or replace at his expense any work or materials which may become defective within one year from date of substantial completion, provided such defects are not due to "Acts of God", or abuse/misuse by agents of the owner.
- A. Raceway shall be concealed wherever possible.
 - B. Use rigid steel or intermediate metal conduit, or EMT 1/2" minimum for all conduit above grade or concrete. Use flexible metal conduit, liquid tight and greenfield where required
 - C. Conduit installed in concrete or underground shall be heavy wall schedule 40 PVC. Install no conduit larger than 3/4" in floor slab.
- D. Seal conduits that run through different temperature or atmospheric conditions to prevent condensation or moisture from entering electrical equipment and devices.
- E. Install wall entrance seal were conduits or direct burial conductors pass through foundation walls below grade.
- F. Couplings, connectors and fittings shall be standard devices to properly attach conduit to outlet boxes, panel enclosures, all steel, rain tight, and concrete type, specifically designed for the application and bearing the UL label.
- G. Outlet boxes shall be 4" square minimum, 2-1/2" deep unless noted otherwise
- H. Exterior underground conduit shall be heavy wall Schedule 40 PVC. 1. Underground conduit runs which enter or exit the building envelope shall utilize rigid conduit from the point of penetration of the building envelope and the next 5' portion of the run in direct contact with the earth. Exterior underground condui shall be buried at a depth of not less than 30 IN below grade. Provide conduits or ducts terminating below grade with means to prevent entry of dirt or moisture. Underground conduits shall slope 1/8" per foot for proper
- drainage. Conduits shall drain toward manholes and junction boxes, not the electrical equipment. CONDUCTOR A. All conductors shall be stranded copper with Types TW, THHN or THW (No. 12 and larger) 600 volt insulation.
- NOT USED.
- WIRING DEVICES
 - A. Verify color of all devices and faceplates with Architect, Adjustment in color shall be made in the field without additional compensation.
- Hubbell 1221, 1223, 1224 series with single pole, three-way and four-way, as required. Override Switch: Hubbell 1556 momentary contact, three position, center off.
- C. Receptacles
- In General: All receptacles shall be rated for the capacity and characteristics of the equipment served and shall be complete with one additional pole for
- a) 15 Amp 125 Volt Duplex: Hubbell 5252. 20 Amp 125 Volt Duplex: Hubbell 5352.
- All connections to wiring devices must be made by the binding screws only.
- Mounting height:
- a) Receptacles: 18" up b) Switches: 48" up
- c) Receptacles Above Counters: 6" up above counter

DIVISION 27 SPECIFICATIONS

- ALL NETWORK CABLE TO BE CAT.6 PLENUM "BLUE" IN COLOR. NETWORK CABLE TO TERMINATE IN EXISTING FOURTH FLOOR TELECOMMUNICATIONS ROOM
- NETWORK CABLE SHALL TERMINATE ON NEW 48 PORT MODULAR PATCH PANEL IN "COUNTY" DATA RACK. COORDINATE LOCATION WITH OWNER ON SITE. EXISTING PANELS CAN BE USED IF AVAILABLE.
- MATCH TYPE AND COLOR OF EXISTING JACKS USED ON SITE. ALSO MATCH LABELING SCHEME CURRENTLY BEING USED. NETWORK CABLE TO BE SUPPORTED EVERY 4' WITH J-HOOK ROUTES ABOVE SUSPENDED CEILINGS AND WITH MINIMUM 3/4" CONDUIT WHERE EXPOSED.
- ALL WORKSTATIONS SHALL BE PIPED WITH 1" CONDUIT STUBS WITH 4 SQUARE BOX / MUD RING.
- NETWORK CABLE TO BE TESTED WITH A LEVEL III METER WITH SUPPORTING DOCUMENTATION OF CALIBRATION. CALIBRATION DATES MUST NOT BE OLDER THAN 1 YEAR. ALL TESTS MUST BE VERIFIED AS "PASS". CONTRACTOR IS RESPONSIBLE FOR ALL CABLES PASSING ON THE PROJECT, REGARDLESS OF MANUFACTURER OR LABOR MALFUNCTIONS.
- 8. ALL ROOM SLEEVES SHALL BE MINIMUM SIZE OF 3/4 AND MADE OF METAL EMT. ALL SLEEVES SHALL BE FIRE STOPPED. LARGER SIZE WHERE REQUIRED FOR MULTIPLE CABLES PER CODE.
- NETWORK LOCATIONS SHALL SUPPORT THE FOLLOWING DEVICES BUT NOT LIMITED TO: PRINTERS, PHONES, COMPUTERS, CLOCKS, CAMERAS, WIRELESS ACCESS POINTS, TV MONITORS. 10. PROVIDE (2) CAT.6 NETWORK PATCH CORDS FOR EVERY NETWORK CABLE INSTALLED. VERY COLOR AND LENGTH PRIOR TO ORDER. USE (1) 4' AND (1) 7' FOR BIDDING PURPOSES. CUSTOMER TO INSTALL
- 11. COAXIAL CABLE FOR TV LOCATIONS WILL BE REQUIRED. CONTRACTOR TO USE PLENUM RATED RG6 CABLE FROM TV OUTLET TO TELECOMMUNICATIONS ROOM. CONTRACTOR TO TERMINATE TV END WITH COMPRESSION TYPE F CONNECTION AND LEAVE THE TR END COILED WITH SUFFICIENT LENGTH TO LAND AT SPLITTER AREA. COORDINATE WITH OWNER ON SITE. OWNER AV CONTACT TO TERMINATE AND ATTACH TO TV DISTRIBUTION SYSTEM. ALL COAXIAL WIRES TO BE TESTED FOR CONTINUITY, SHORTS AND OPENS BETWEEN MAIN CONDUCTOR AND SHIELD.

- D. Furnish combination, multi-gang and special plates as required.
- 1. In general: P&S p-line smooth thermoset plastic.
- 2. Unfinished areas: Satin Stainless Steel with plate screws of similar material, Sierra Type 302.
- 3. Weatherproof: Of type indicated by symbol on the drawings with Hubbell GF5362, 20 amp 125 volt ground fault receptacle with while-in-use metal cover

E. Occupancy sensors: 1. PIR Sensor: Include isolated relay and power pack. Wattstopper CI-Series or approved equal.

- 2. Dual Technology Occupancy Sensor: Combination passive infrared and ultrasonic detection (dual technology). Mounts on a ceiling bracket with a swivel unit. Include isolated relay and power pack. Wattstopper DT-Series or approved equal.
- 3. Sensitivity Test: After the sensor has been energized for at least 15 minutes, walk to the middle of the room (if conference room) or sit at the normal desk position (if an office). Make no motion for 20 seconds. Move one arm up and down slowly. The testLED should blink.
- 4. Time Delay Test: Set the time delay for 10 minutes. Walk into the room to activate the sensor, then leave room. Sensor must turn lights off at approximately 10
- 5. Install sensors within rooms in accordance with furniture and shelving layout. Infrared sensors shall be placed where they will have a direct line of sight to the
- 6. Ultrasonic sensors shall not be placed immediately adjacent to HVAC diffusers. High velocity air movement may result in nuisance tripping of sensor.
- 7. Submit a Lighting Plan marked by manufacturer showing the location, orientation and model number of all occupancy sensors and power packs. Provide interconnecting wire diagrams and catalog cut sheets of all occupancy sensors and power packs.
- 6. LIGHTING FIXTURES AND LAMPS
- A. Provide fixtures complete with initial fill of lamps as scheduled.
- B. Refer to Lighting Fixture Schedule on plans.
- 1. Unless otherwise indicated in the Lighting Fixture Schedule, ballasts for fluorescent lamps shall be electronic, rapid-start, high-frequency, full-output type. Ballasts shall be UL listed, ETL certified, Class P, and have an A sound rating. Electronic ballasts shall have less than 10% total harmonic distortion, and a third-harmonic distortion less than 10%.

3. Ballasts shall have a minimum ballast factor of 0.85, a minimum power factor of 0.9, a maximum lamp current crest factor of 1.7, and shall be low-inrush type.

- 2. Compact Fluorescent Ballasts shall be equipped with an internal, automatic resetting thermal cutout device. Ballasts shall be Class P, and shall be equipped with a ballast shutoff circuit for protection of the ballast at the end of lamp life.
- D. Recessed, incandescent fixtures shall include thermal cut-off protection in accordance with code wherever application dictates.

E. LED LIGHTING

- 1. The manufacturer offering this item must have produced at least 1000 (one thousand) identical or similar models to that being tendered.
- 2. The manufacturer of the LED lighting fixture shall utilize high-brightness LEDs.
- 3. Light output of the luminaire shall be the absolute photometry following IESNA LM-79 requirements and guidelines.
- 4. Lumen maintenance of the LED's (sources, arrays, modules) shall be reported following IESNA LM-80 requirements and guidelines. 5. Luminaire Color Rendering Index (CRI) shall be a minimum of 70 for exterior fixtures, and a minimum of 80 for interior fixtures.
- 6. The LED fixture shall be thermally designed as to not exceed the maximum junction temperature of the LED for the ambient temperature of the location the
- fixture is to be installed. 7. The luminaire shall maintain 70% lumen output (L70) for a minimum of 50,000 hours at 25 degrees C for exterior locations and conditioned interior locations, and
- 40 degrees C for unconditioned interior locations. 8. The luminaires shall have a verifiable one hundred (100) hour burn in time at the factory.
- 9. The luminaire shall be mercury-free, lead-free and RoHS compliant. 10. The luminaire shall be certified by a Nationally Recognized Testing Laboratory (UL, ETL, IEC) as listed by OSHA.
- 11. LED driver shall have a minimum power factor of 0.9. 12. Electrical components of the LED lighting fixture [LED light engine/board array and driver(s)] shall be of modular construction so that each component is
- individually replaceable in the field for maintenance and repair purposes. Wiring connecting these components shall utilize quick disconnects.
- 13. The LED lighting fixture shall carry a limited 5-year warranty minimum for LED light engine(s)/board array, and driver(s). 14. LED driver shall be a Dimming Constant Current (DCC) driver, operating at [350/525/750]mA drive current maximum.
- 15. LED driver shall be compatible with dimming control as specified. Refer to control specification.
- 16. LED luminaire, driver, and controls shall be submitted for review at the same time to ensure compatibility.

17. All LED fixtures when submitted for review shall include the "Lighting Facts" sheet.

- F. The Contractor shall verify ceiling construction prior to ordering fixtures. G. All compact fluorescent ballasts shall be electronic with ballast shutoff circuit for protection of the ballast at theend of lamp life, unless noted otherwise.
- Special Purpose outlet shall be located as required by equipment. The Contractor shall be responsible for verifying electrical characteristics of the actual equipment being furnished for the project prior to installation of outlets. The Contractor shall verify that all materials are provided for a complete electrical installation.

FIRE ALARM SYSTEM

- a. Furnish all labor, materials, tools, equipment and services for the horn/strobe fire alarm system as indicated, in accordance with provisions of Contract
- b. Furnish and install Fire Alarm System devices to the existing system as described herein and as shown on the plans; to be wired, connected, and left in first
- class operating condition c. All wiring shall be run in red conduit.
- d. Furnish and install cabling as directed by the manufacturer.
- 9. BIDDING PROCEDURES

2 - E100 LIGHTING AND ELECTRICAL PLAN

2 - E201 4TH FLOOR DATA AND TELECOM

2 - E200 LIGHTING AND POWER SCEDULE AND DETAILS

NUMBER

- 1. Base Bid shall include all labor required and all materials and equipment as shown on the contract drawings and heretofore specified.
- 2. Base Bid shall not include any conditions or qualifying statements, shall be in strict accordance with specification requirements and shall be based upon the installation of materials and equipment as specified

G - ELECTRICAL SHEET LIST 2 - E REVISION PROGRESS SHEET NAME PRINT DATE CURRENT DESCRIPTION DATE ELECTRICAL SYMBOLS, ABBREVIATIONS AND 07-07-22 Addendum 1

07-08-22

Addendum 2

SYMBOLS LIST NOTE:

ANY SYMBOLS UTILIZED ON THE FLOOR PLANS NOT OTHERWISE ON THE SYMBOLS LIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS PRIOR TO BIDDING FOR CLARIFICATION.

LIGHTING

LED TROFFER

REC./SUSP. LINEAR LED FIXTURE

☐ LED RECESSED DOWNLIGHT

EXIT SIGN

EMERGENCY LIGHT

LOCAL SWITCH, SINGLE POLE - MOUNTED 48" AFF

+3 LOCAL SWITCH, SINGLE POLE - 3-WAY

+■ WALLBOX DIMMER - MOUNTED 48" AFF

(a) CEILING MOUNTED OCCUPANCY SENSOR <u>CIRCUIT DESIGNATIONS</u>

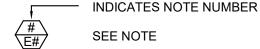
BRANCH CIRCUIT - COMMON CONTROL, INCLUDES GREEN GROUND WIRE. NEUTRAL AND PHASE WIRES.

BRANCH CIRCUIT - SEPARATE CONTROL, INCLUDES GREEN GROUND WIRE, NEUTRAL AND PHASE WIRES.

POWER & DIAGRAMS

- DUPLEX RECEPTACLE MOUNTED 18" AFF.
- QUADRUPLEX RECEPTACLE TWO DUPLEX RECEPTACLES UNDER A COMMON
- POKETHRU REFER TO DETAIL FOR MORE INFORMATION TWO CAT.6 CABLES
- SPECIAL PURPOSE OUTLET SEE SCHEDULE.

MISCELLANEOUS SYMBOLS



INDICATES SHEET NUMBER

FIRE ALARM SYSTEM

- AUDIO SIGNAL DEVICE (SPEAKER) CEILING MOUNTED.
- AUDIO/VISUAL SIGNAL DEVICE (SPEAKER/STROBE) CEILING MOUNTED. 75 CANDELA UNLESS NOTED OTHERWISE

COMMUNICATIONS

- DATA OUTLET MOUNTED AT 18" AFF SINGLE CAT.6 CABLE # INDICATES QUANTITIES OF CABLES
- VW DATA OUTLET MOUNTED AT 48" AFF SINGLE CAT.6 CABLE
- DATA OUTLET MOUNTED IN FINISHED CEILING FOR USE WITH ACCESS POINT. TWO CAT.6 CABLES
- JUNCTION BOX
- COMBINATION POWER/TELEVISION OUTLET
- OWNER CLOCK (1) CAT.6 CABLE OWNER CAMERA - (1) CAT.6 CABLE

ARCHITECT/ENGINEER

HEATING, VENTILATING, AND

HEAVYWALL

AIR CONDITIONING CONTRACTOR

AMP FUSE

ABBREVIATIONS

INSTALLED

INTEGRAL TO UNIT

/\l	AIVII 1 00L	10	INTEGRAL TO UNIT
AFC	AVAILABLE FAULT CURRENT	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LIG	LAY-IN GRID
ARCH	ARCHITECT	LOC	LOCATION
AFG	ABOVE FINAL GRADE	LTG	LIGHTING
AR	AS REQUIRED	MAG	MAGNETIC STARTER
AS	AMP SWITCH	MAN	MANUAL STARTER
В	JUNCTION BOX	MC	MECHANICAL CONTRACTOR
BKR	BREAKER	MCB	MAIN CIRCUIT BREAKER
BFG	BELOW FINAL GRADE	MLO	MAIN LUGS ONLY
С	MOUNTED 6" ABOVE COUNTER	MSB	MAIN SWITCHBOARD
CAB	CABINET	MTD	MOUNTED
CB	CIRCUIT BREAKER	NU	NEAR UNIT
cd	CANDELA	NIC	NOT IN CONTRACT
CKT	CIRCUIT	0	OTHERS
CLG	CEILING	OC	ON CENTER
COMB	COMBINATION STARTER W/DISCONNECT SWITCH	ORS	OVER RIDE SWITCH
CONC	CONCRETE	OU	ON UNIT
CP	CONTROL PANEL	P	POLE
CS	COMBINATION STARTER/DISC. SWITCH	PC	PHOTOCELL
D	DISCONNECT SWITCH	PEND	PENDANT
DISC	DISCONNECT SWITCH	PLBG	PLUMBING CONTRACTOR
DN	DOWN	PNL	PANEL
DNLT	DOWN LIGHT	PB	PUSH-BUTTON
EWC	ELECTRIC WATER COOLER	R	RECEPTACLE
E.C	ELECTRICAL CONTRACTOR	REC	RECESSED
ELEV	ELEVATION	SS	SWITCH STATION
EMT	ELECTRICAL METALLIC TUBING	SURF	SURFACE
ENT	ELECTRICAL NON-METALLIC TUBING	SUSP	SUSPENDED
ER	EXISTING TO BE REMOVED	SW	SWITCH
EXP	EXPOSED	TC	TIME CLOCK
EXR	EXISTING IN NEW LOCATION	TCC	TEMPERATURE CONTROL
EX	EXISTING TO REMAIN		CONTRACTOR
F	FURNISHED	TYP	TYPICAL
FIXT	FIXTURE	UM	UNIT MANUFACTURER
FLUOR	FLUORESCENT	VER	VERIFY
G.C.	GENERAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRI
GFI	GROUND FAULT INTERRUPTING	W	WIRED
GRC	GALVANIZED RIGID CONDUIT	WP	WEATHERPROOF
GYP	GYPSUM BOARD	XFMR	TRANSFORMER
HOA	HAND-OFF-AUTO SELECTOR SWITCH		
HP	HORSEPOWER		

Reference: **KEY PLAN**

Revisions:

Graphic Scale

Project

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Set

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Date

Issued

No. Date: Description:

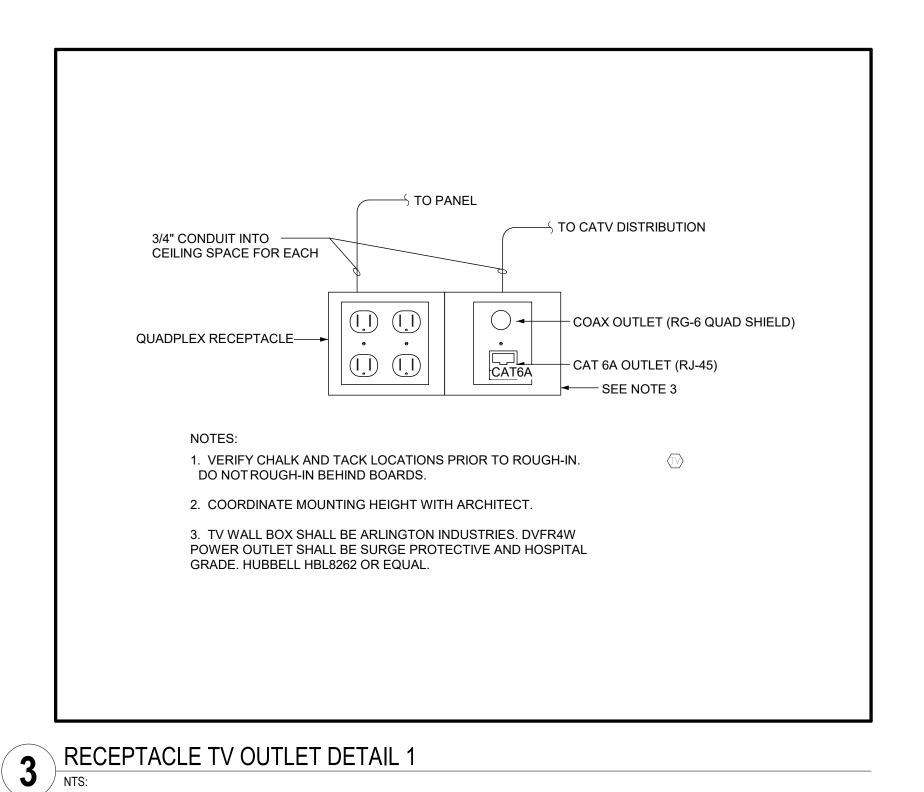
07-07-22 Addendum 1

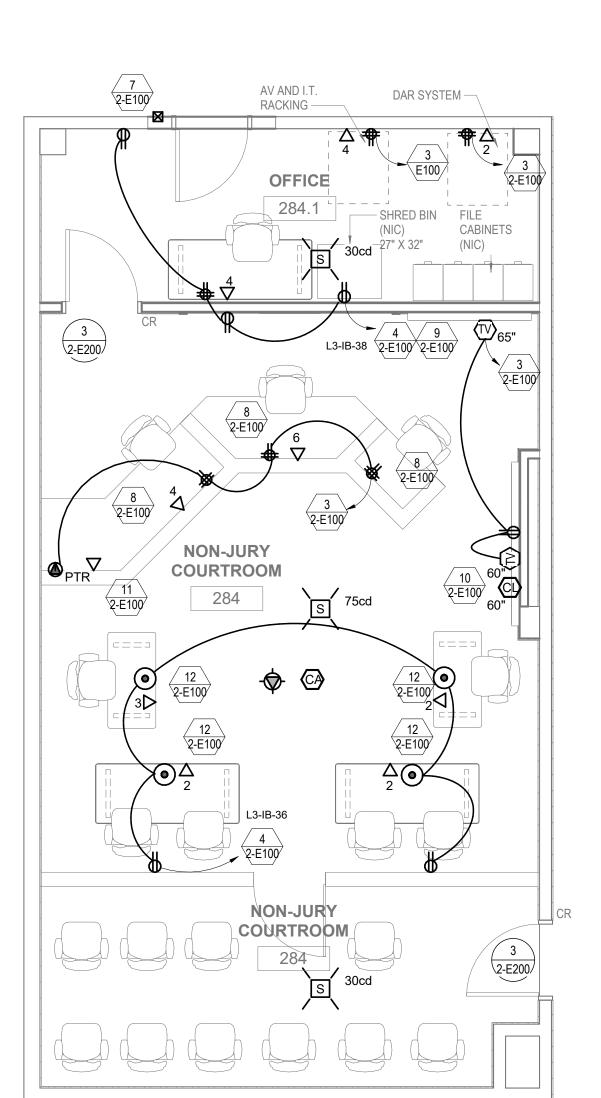
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BID SET

1-5-2023

2 - EL





THIRD FLOOR PLAN - POWER AND SYSTEMS

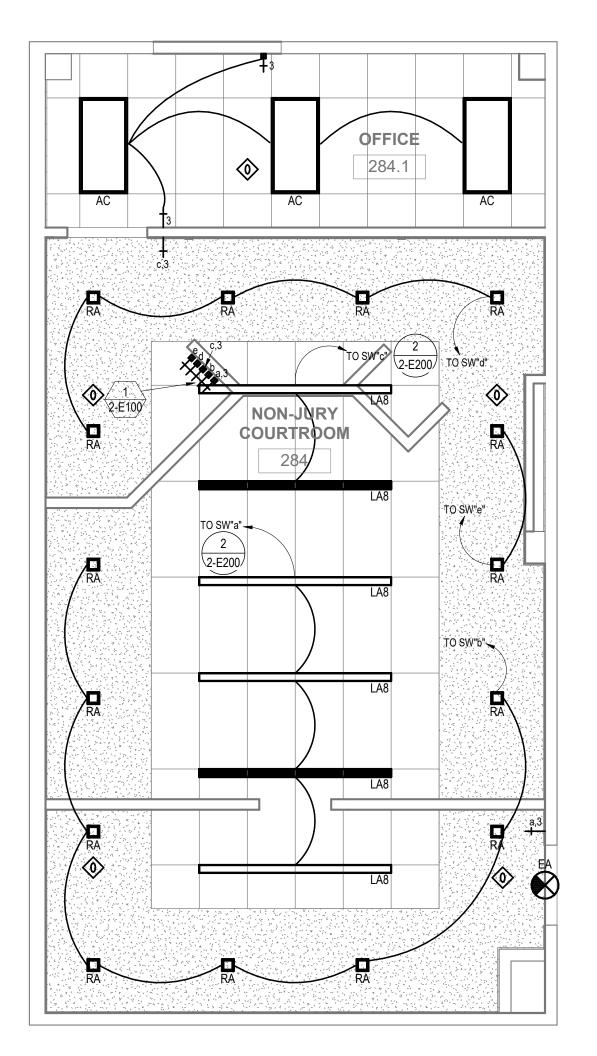
1/4" = 1'-0"



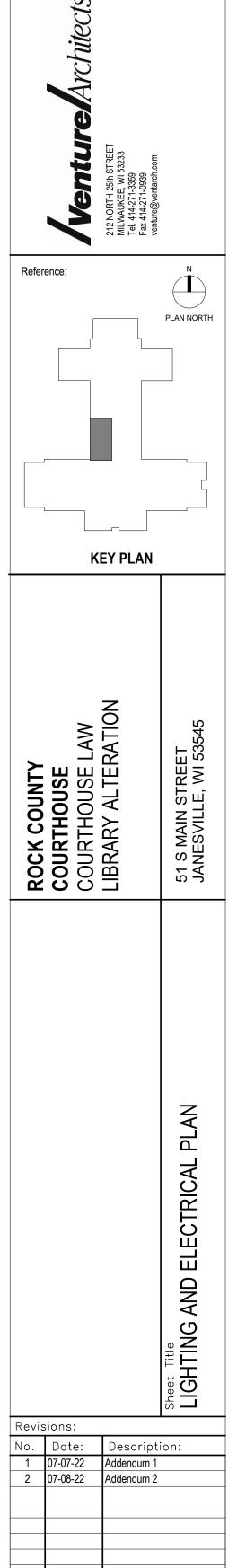
- LOCATE SWITCHES IN BENCH PARTITION BETWEEN CLERK AND JUDGE (ON CLERK'S SIDE OF PARTITION); COORDINATE CONDUIT/WIRE ROUTING WITH BENCH VENDOR/INSTALLER. SWITCHES SHALL BE PLACED UNDER A SINGLE/COMMON COVERPLATE; VERIFY COVERPLATE FINISH WITH ARCHITECT PRIOR TO ORDERING. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- BOTTOM OF FIXTURE SHALL LINE UP WITH BOTTOM OF PERIMETER SOFFIT AT APPROXIMATELY 12'-0" AFF. EACH FIXTURE SHALL BE PROVIDED WITH (2) CIRCUITS, (1) FOR THE DOWNLIGHT AND (1) FOR THE UPLIGHT; ONLY THE DOWNLIGHT PORTION SHALL BE WIRED TO THE GENERATOR FOR
- EMERGENCY EGRESS OPERATION. CIRCUIT TO EXISTING PANEL "EL3-1B" LOCATED ON THE FLOOR ABOVE. REMOVE 50A/2P CIRCUIT BREAKER AND PROVIDE (2) NEW 20A/1P
- BREAKERS." CUTLER HAMMER, PRL-1, 225A, 208Y/120V, 3Ø, 4W, DATED 9/96. THIS PANEL IS LOCATED IN THE ELECTRICAL CLOSET ON THE FLOOR ABOVE. PROVIDE A NEW 20A/1P CIRCUIT BREAKER. CUTLER HAMMER, PRL-1, 225A, 208Y/120V, 3Ø, 4W, DATED 9/96.
- NOT USED NOT USED
- 12"x12"x4" FLUSH MOUNTED J-BOX. TERMINATE COURTROOM AV CONDUITS FROM JBOXES TO THIS LOCATION. PROVIDE (3) 2" CONDUITS FROM THIS LOCATION TO ACCESSABLE CEILING. 2G J-BOX OUTLET ON UNDERSIDE FACE OF DESK. ROUTE 1" CONDUIT FROM
- J-BOX TO PULL BOX AT AV EQUIPMENT RACK. 2G J-BOX OUTLET MIN. 2.5" DEPTH AT 65" ROUTE (2) 1" CONDUIT FROM J-BOX TO ABOVE ACCESSIBLE CEILING IN STORAGE JUDGES OFFICE/CHAMBER. 2G J-BOX OUTLET MIN. 2.5" DEPTH AT 65" ROUTE (2) 1" CONDUIT FROM J-BOX
- TO ABOVE ACCESSIBLE CEILING. 1G J-BOX OUTLET. ROUTE 1" CONDUIT FROM J-BOX TO PULL BOX AT AV
- EQUIPMENT RACK. 12. FLOOR BOX WITH DEDICATED 1" CONDUIT TO AV EQUIPMENT RACK.

GENERAL NOTES:

- E.C. SHALL PROPERLY DISCONNECT, REMOVE, AND TURN OVER TO THE OWNER ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS AFFECTED BY THIS REMODEL. IF OWNER DOES NOT WANT ANY OF THESE ITEMS, E.C. SHALL PROPERLY DISPOSE OF.
- WIRE NEW LIGHTING FIXTURES TO THE NEAREST AVAILABLE EXISTING LIGHTING CIRCUITS CURRENTLY SERVING THE AREA OF REMODEL. ALSO, WIRE SHADED FIXTURES TO THE NEAREST AVAILABLE GENERATOR EGRESS CIRCUITS CURRENTLY SERVING THE AREA OF REMODEL. PROVIDE UL924 TRANSFER RELAYS AS REQUIRED SO THAT EGRESS FIXTURES REMAIN CONTROLLABLE; REFER TO DETAIL 2/E200 FOR MORE INFORMATION.
- VERIFY LOCATION OF "CL" AND "CA" WITH OWNER PRIOR TO INSTALL.
- ALL NETWORK CABLES THIS SHEET GET WIRED TO 4TH FLOOR TELECOM ROOM. SEE OVERALL TELECOM SHEET
- FOR DETAILS. CEILING MOUNTED FIRE ALARM DEVICES SHALL BE WHITE. COORDINATE FINAL LOCATION WITH CEILING MOUNTED DEVICES. LIGHTING FIXTURES TAKE PRECEDENT FOR LOCATION. ADJUST CANDELA RATING AS NEEDED.



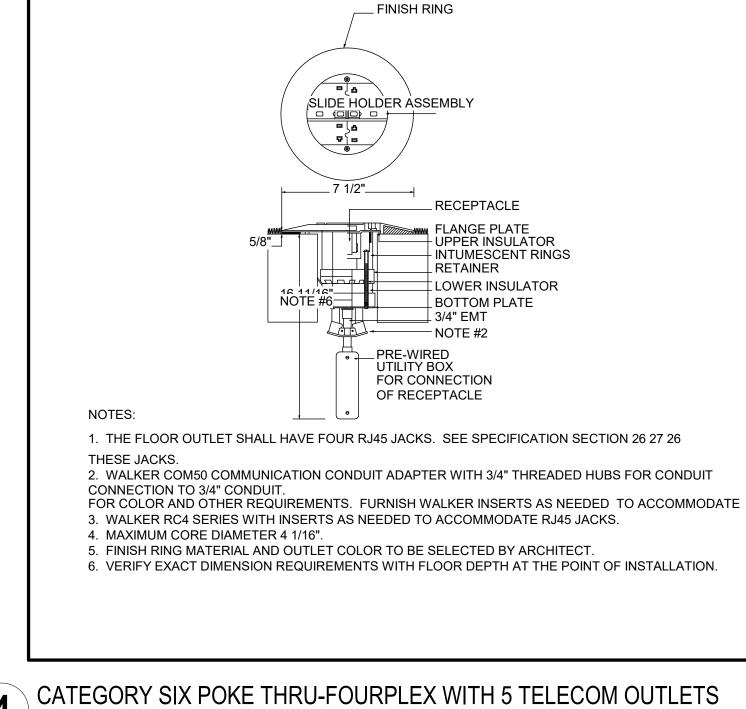




Graphic Scale Project 210105.00 Number

Set Type BID SET Date 1-5-2023 Issued

Sheet 2 - E100







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				E	- LIGI	HI HX	IURE	SCHEDU	JLE						
		LED DATA							LIGH	ITING FIXTURE		DRIVER			SEE
DESIGNATION	DESCRIPTION	TYPE	DELIVERED LUMEN	KELVIN CRI		WATTS	VOLT	RECESS DEPTH	MANUFACTURER	SERIES	OPTIONS/ACC ESSORIES	TYPE	MTG	MTG SURFACE	NOTE
AC	2x4 ARCHITECTURAL TROFFER	MODULE	4000	3500	80	32	UNV	2.375"	LITHONIA	2BLT4/40L/ADS M/EZ1 SERIES	28	DDRV	REC	LIG	
AD	2x4 ARCHITECTURAL TROFFER	MODULE	6000	3500	80	48	UNV	2.375"	LITHONIA	2BLT4/60L/ADS M/EZ1 SERIES	28	DDRV	REC	LIG	
EA	1-FACE EDGELIT EXIT SIGN	MODULE	-	-	-	5	UNV	-	LITHONIA	EDGR/1/EL/SD SERIES	10	DRV	REC	GYP	
LA8	2"APERx8'L RECESSED DIRECT	MODULE	800L/FT	3500	80	8W/FT	UNV	4.5"	MARK ARCHITECTURAL	SL2L/8FT/FLP/8 OOLMF/MIN1/ZT SERIES		DDRV	REC	LIG	
LC8	2"APERx8'L SUSPENDED DIRECT/INDIRECT, 2-CKTS	MODULE	600L/FT DN/600L/FT UP	3500	80	12W/FT	UNV	-	MARK ARCHITECTURAL	S2LID/8FT/600L MF/I600LMF/MI N1/ZT SERIES		DDRV	SUSP	LIG	17
RA	4"SQUARE RECESSED DOWNLIGHT	MODULE	2500	3500	80	27W	UNV	6.5"	LITHONIA	LDN4SQ/25/LS 4/EZ1 SERIES	10,28	DDRV	REC	GYP	

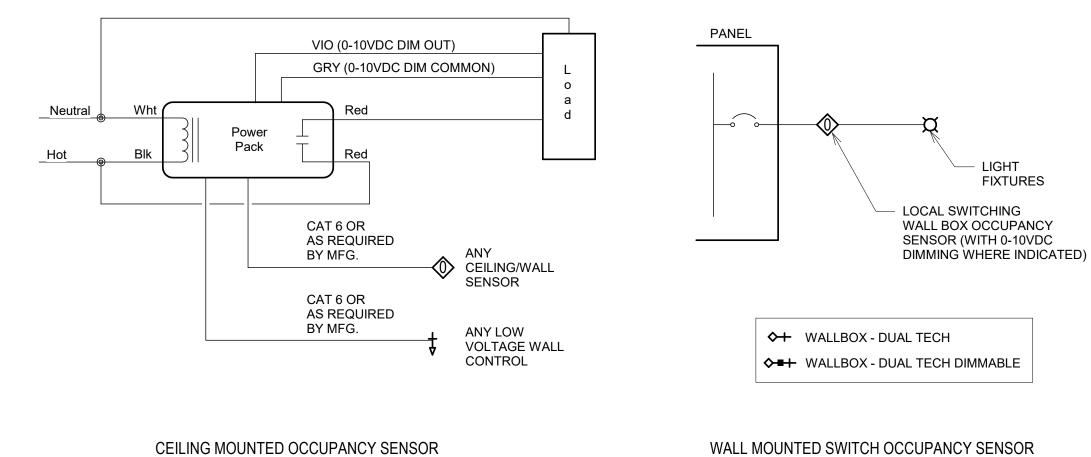
	E - SPECIAL OUTLET SCHEDULE - TYPICAL HW																
NO.	TO FEED	LOC.			BREA	KER		W	RING		TE	RMINA	\L	VOLT	PHASE	LOAD (KW)	SEE NOTE
110.	TOTLED	LOC.	Panel	Circuit Number	SIZE	POLE	NO.	SIZE	COND	GRD SIZE	R	Д	В	VOLI	I IIA3L	LOAD (KVV)	3LL NOIL
PTR	PRINTER	SEE DWG	SEE DWGS	SEE DWGS	20	1	2	12	1/2	12	Х			120	1	1	

ABBRE	EVIATIONS:									
EXP	EXPOSED STRUCTURE	REC	RECESSED		WM	WALL MOUNTED	STD	STANDARD	VAR	VARIES
LIG	LAY-IN GRID	SURF	SURFACE		GRD	GROUND	SPEC	SPECIAL	LAS	LENGTH AS SHOWN
GYP	GYPSUM BOARD	PEND	PENDANT		CONC BASE	CONCRETE BASE	AR	AS REQUIRED	DRV	LED DRIVER
VER	VERIFY	AC	AIRCRAFT CABLE SU	JSP.	MTD	MOUNTED	NA	NOT APPLICABLE	DDRV	LED DIMMABLE DRIVER
OPTIO	NS/ACCESSORIES CODE LISTING:									
1.	0.125" PATTERN 12 ACRYLIC LENS		10.	STD.	FINISH TO BE	SELECTED BY ARCHITECT	21	I. FURNISH w / LE	AD CAL	CIUM BATTERY
2.	0.156" PATTERN 19 ACRYLIC LENS		11.	CUS	TOM COLOR		22	2. FURNISH w / NIC	CAD BAT	ΓΤΕRΥ
3.	FLUSH STEEL DOOR FRAME		12.	FURI	NISH w / CHAIN	I HANGERS	23	FURNISH w / SE	LF DIAG	SNOSTICS
4.	FLUSH ALUMINUM DOOR FRAME		13.	FURI	NISH w / STEM	/SWIVEL CANOPY	24	I. FURNISH w / LE	D DRIVE	ER, NON-DIMMED
5.	SEMI-SPECULAR REFLECTOR		14.	FURI	NISH w / AIRCF	RAFT CABLE	25	5. FURNISH w / LE	D DRIVE	ER, STEP-DIMMED
6.	LOW IRIDESCENT REFLECTOR		15.	FURI	NISH w / NEMA	HOOK, CORD & PLUG	26	6. FURNISH w / LE	D DRIVE	ER, DIMMABLE TO 10%
7.	REFLECTOR MATCHING TRIM RING		16.	FURI	NISH w / SAFE	TY CHAIN	27			ER, DIMMABLE TO 5%
8.	DAMP LOCATION LISTED		17.	FURI	NISH w / WIRE	GUARD	28			ER, DIMMABLE TO 1%
9.	WET LOCATION LISTED		18.	FURI	NISH w / AUXIL	IARY EMERGENCY DRIVER	29			ER, DIMMABLE TO 0.1%
			19.	FURI	NISH w / INTEG	RAL PHOTOCELL	30			ER FABRICATION
				FURI	NISH WITH UN	IVERSAL ARROWS AND				
					RED STEN	_				

LIGHTING FIXTURE SCHEDULE NOTES:

NOTES LF1 - LF17 ARE GENERAL NOTES APPLICABLE TO ENTIRE LIGHTING FIXTURE SCHEDULE WHERE APPROPRIATE.

- LF1 PROVIDE ALL PAINTED FIXTURES WITH PAINT AFTER FABRICATION WITH POLYESTER PAINT.
- LF2 PROVIDE ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A COMPLETE OPERATING INSTALLATION PER APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
- LF3 INCLUDE IN THE BASE BID THE COST FOR FURNISHING, INSTALLING, WIRING AND CONNECTING FOR A COMPLETE OPERATING INSTALLATION AN ADDITIONAL EXIT FIXTURE OF EACH TYPE SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE.
- LF4 CONTRACTOR SHALL REVIEW THE ENTIRE LIGHTING FIXTURE SCHEDULE INCLUDING THE DESCRIPTION AND CATALOG NUMBER. CONTRACTOR SHALL NOTIFY THE A/E OF ANY DISCREPANCIES PRIOR TO BIDDING.
- LF5 VERIFY ALL FINISHES/COLORS OF FIXTURES WITH A/E PRIOR TO ORDERING.
- LF6 CONTRACTOR SHALL VERIFY THAT THE FIXTURE INSTALLATION TYPE IS COMPATIBLE WITH CEILING CONSTRUCTION PRIOR TO INSTALLATION.
- LF7 FIELD VERIFY THE EXACT LOCATIONS OF THE LIGHTING FIXTURES TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPES, STRUCTURAL MEMBERS, ARCHITECTURAL FEATURES, ETC. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO ROUGH IN.
- LF8 IN ALL INSULATED CEILINGS, WALLS, AND WHERE RECESSED FIXTURES PENETRATE THE BUILDING ENVELOPE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN AIRTIGHT INSTALLATION AND PROPER CLEARANCES BETWEEN RECESSED FIXTURES AND THE INSULATION. THIS CAN BE ACCOMPLISHED BY PROPER TENTING OR BOXING-OUT AROUND RECESSED FIXTURES THAT DO NOT HAVE IC RATINGS, OR REPLACEMENT OF THOSE FIXTURES WITH EQUAL FIXTURES HAVING PROPER IC AND AIRTIGHT RATINGS. REFER TO THE ARCHITECTURAL PLANS FOR APPLICABLE AREAS.
- LF9 IN ALL FIRE-RATED CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FIRE RATING. REFER TO ARCHITECTURAL PLANS FOR APPLICABLE AREAS.
- LF10 PROVIDE OCCUPANCY SENSORS AS SHOWN ON THE PLANS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- LF11 PROVIDE COMPATIBLE DIMMING SWITCHES PER MANUFACTURER'S RECOMMENDATIONS.
- LF12 FIELD VERIFY THE EXACT LOCATION OF ALL SURFACE MOUNTED FIXTURES TO AVOID CONFLICT WITH ARCHITECTURAL FEATURES, INCLUDING PAINT/WALL COVERING SCHEMES, DECORATIVE TRIMS, ETC. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO ROUGH IN.
- LF13 PROVIDE (1) EXTRA LED MODULE AND LED DRIVER OF EACH TYPE INDICATED IN LIGHT FIXTURE SCHEDULE AND TURN OVER TO OWNER.
- LF14 IN ALL PLENUM RATED CEILING CAVITIES PROVIDE PLENUM RATED TROFFERS AND OTHER TYPES OF LIGHTING FIXTURES IF REQUIRED BY LOCAL CODE(S).
- LF15 EXCEPT FOR HAZARDOUS RATED AND BATTERY COMPONENTS OF EMERGENCY FIXTURES, ALL LED DRIVERS SHALL HAVE A DISCONNECTING MEANS DESCRIBED IN THE NEC. THIS DISCONNECT MUST BE ACCESSIBLE WITHIN THE FIXTURE AT OR NEAR THE DRIVER.
- LF16 LIGHT FIXTURES SPECIFIED ESTABLISH A LEVEL OF QUALITY WHICH SHALL BE MET BY ALL FIXTURES PROVIDED. FIXTURES SHALL BE COMPARABLE IN PERFORMANCE, CONSTRUCTION, PHYSICAL APPEARANCE, FINISH AND FEATURES IN ORDER TO BE CONSIDERED EQUIVALENT. FIXTURES NOT DEEMED "EQUIVALENT" MAY NOT BE SUBMITTED AS AN "ALTERNATE" OR "SUBSTITUTE" FIXTURE TO THAT WHICH WAS SPECIFIED. DETERMINATION OF "EQUIVALENCY" SHALL BE THE RESPONSIBILITY OF A/E. THERE SHALL BE NO ADDITIONAL COST ASSOCIATED WITH REJECTION OF A FIXTURE NOT DEEMED "EQUIVALENT" BY THE A/E.
- LF17 PROVIDE FIXTURE WITH (2) CIRCUITS; ONE FOR THE DOWNLIGHT AND ONE FOR THE UPLIGHT. FOR THE SHADED FIXTURES ON THE LIGHTING PLAN, THE DOWNLIGHT CIRCUIT SHALL BE WIRED TO THE GENERATOR FOR CODE REQUIRED EMERGENCY EGRESS LIGHTING. REFER TO GENERAL NOTE 2/E100 AND DETAIL 2/E200 FOR MORE INFORMATION.



OCCUPANCY SENSOR NOTES:

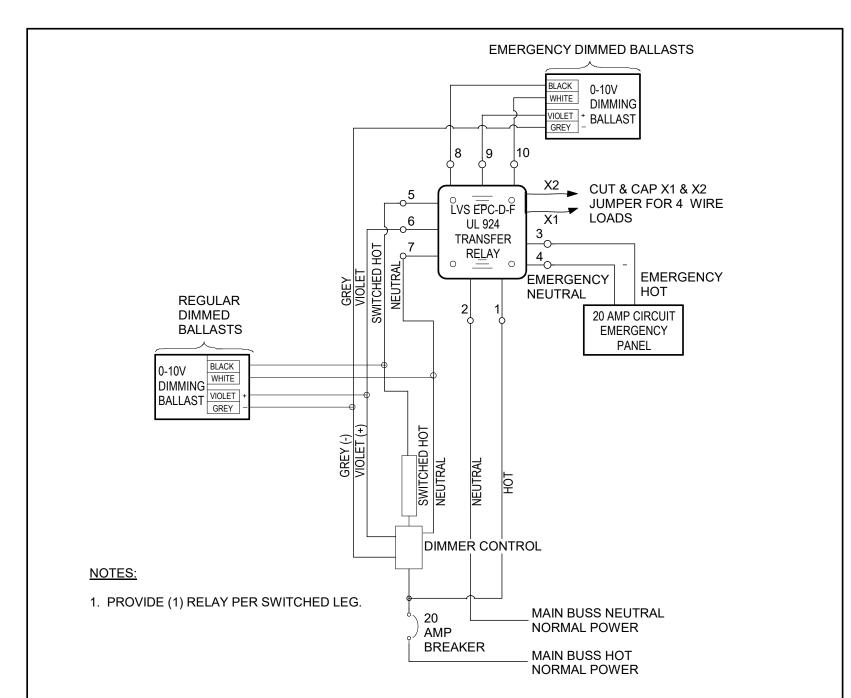
- 1. IN ROOMS SHOWN WITH TWO OR MORE OCCUPANCY SENSORS, IT IS INTENDED THAT BOTH SENSORS CONTROL THE SAME LIGHT FIXTURES VIA A COMMON "POWER PACK" UNLESS NOTED OTHERWISE.
- 2. POWER PACKS SHALL BE LOCATED IN THE CEILING SPACE DIRECTLY ABOVE THE LOCAL WALL SWITCHES WHENEVER FEASIBLE.

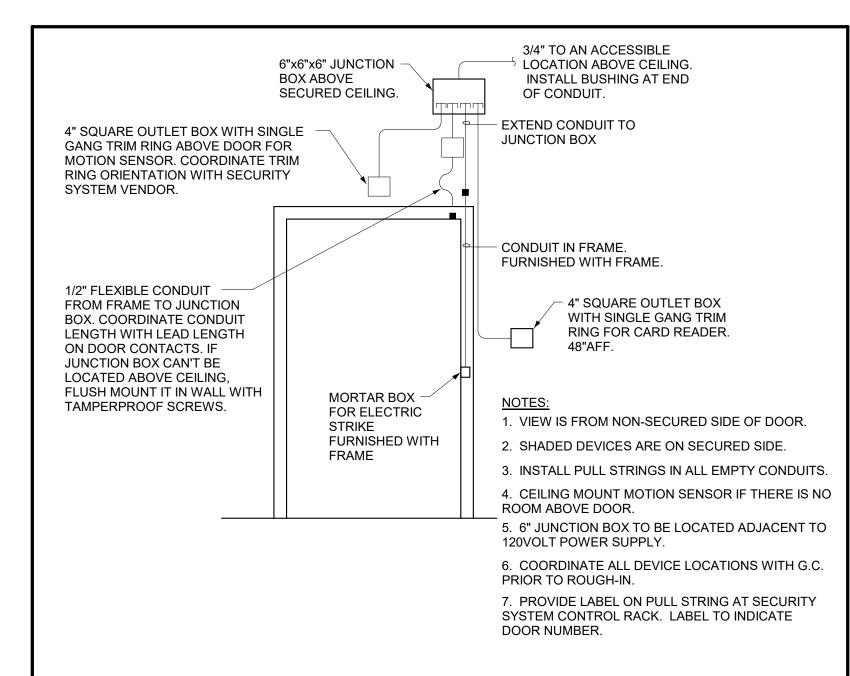
MANUFACTURERS RECOMMENDATIONS AND GUIDELINES.

- 3. USE OF THE OCCUPANCY SENSOR SYMBOL IN A ROOM INDICATES THE TYPE OF SENSOR TO BE USED TO CONTROL ALL LIGHTS IN THAT SPACE. EXACT LOCATION, MOUNTING, AND CONFIGURATION OF SENSOR SHALL BE DETERMINED IN THE FIELD, BASED UPON
- 4. SPECIFIC MODEL OF OCCUPANCY SENSOR SHALL BE COORDINATED WITH ROOM SIZE, LAYOUT, CEILING HEIGHT AND MOUNTING REQUIREMENTS, SENSOR MANUFACTURER, AND CONTRACTOR. VERIFY DEVICE COLOR WITH ARCHITECT PRIOR TO ORDERING.
- 5. CONTRACTOR SHALL PROVIDE A COIL OF WIRING 4'-5' IN LENGTH IN A J-BOX AT EACH OCCUPANCY SENSOR LOCATION FOR FUTURE RELOCATION IF DESIRED BY OWNER.
- 6. OCCUPANCY SENSOR MANUFACTURER SHALL PROVIDE HARD COPIES AND ELECTRONIC AUTOCAD DRAWINGS FILES OF THE LOCATION AND MODEL NUMBERS OF ALL ASSOCIATED EQUIPMENT.
- 7. MOTION SENSORS / POWER PACK SHALL BE LINKABLE OR HAVE AUXILARY CONTACTS TO CONTROL MULTIPLE LOADS SUCH AS BUT NOT LIMITED TO HVAC LOADS.

OCCUPANCY SENSOR DETAIL

NTS:





2 EMERGENCY LIFE SAFETY DIMMING CIRCUIT

NTS:

SECURED DOOR DETAIL

NTS:

KEY PLAN ROCK COURT COURT LIBRAF AND AND Revisions: No. Date: Description:

Graphic

Scale

Project

Number

Type

Date

Issued

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1-5-2023

Reference:

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Venture Architects

KEY PLAN

Revisions:
No. Date: Description:

Graphic Scale

Set Type Date Issued

1-5-2023

Sheet 2 - E201

DA Space Needs Analysis Rock County

180052.02 11/12/20 SCHEME 2 1/8" = 1'-0" PART 1 - GENERAL 1.01 INSTRUCTIONS

- A. SCOPE OF WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING INSTALLATION IN ACCORDANCE WITH LOCAL AND STATE CODES, AND CONTRACT DRAWINGS AND SPECIFICATIONS.
- A. CONTRACTOR SHALL VISIT THE SITE AND OBSERVE ALL EXISTING LOCAL CONDITIONS WHICH WOULD AFFECT WORK UNDER THIS CONTRACT. CONTRACTOR SHALL EXAMINE ALL PLANS AND SPECIFICATIONS FOR THIS PROJECT AND CONSULT THEM FOR INSTRUCTIONS PERTAINING TO WORK OF THIS SECTION.
- 1.03 PERMITS AND FEES A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR PERTAINING TO WORK UNDER THIS CONTRACT AND PAY ALL CHARGES INCIDENTAL THERETO. DELIVER TO ARCHITECT ALL CERTIFICATES OF INSPECTION ISSUED BY AUTHORITIES HAVING JURISDICTION. 1.04 CODES AND STANDARDS
- FURNISH AND INSTALL MECHANICAL SYSTEMS TO MEET ALL CURRENT REQUIREMENTS OF NATIONAL, STATE AND MUNICIPAL CODES, RULES REGULATIONS, LAWS, AND STANDARDS AS THEY ARE ADOPTED BY THE GOVERNING AGENCY AND AS THEY MAY APPLY: INTERNATIONAL BUILDING CODE, 2015INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CODE, INTERNATIONAL PLUMBING CODE, NATIONAL FUEL GAS CODE, NATIONAL ELECTRIC CODE, NFPA 13 AND 13R (SPRINKLER SYSTEMS) STANDARD FOR THE INSTALLATION OF A/C AND VENT SYSTEMS, NFPA 90A, AND UNDERWRITERS LABORATORIES.
- 1.05 SUBMITTALS A. MATERIAL LIST: WITHIN TWENTY (20) DAYS OF AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT TO ARCHITECT A COMPLETE LIST OF MATERIALS TO BE PROVIDED FOR THE HVAC WORK. THE LIST SHALL INCLUDE SUPPLIERS' NAMES AND MANUFACTURERS' NAMES AND NUMBER OR SERIES FOR EACH
- B. SHOP DRAWINGS: SUBMIT TO THE ARCHITECT FOR APPROVAL, BEFORE COMMENCING WORK, SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT. THE FOLLOWING APPLIES TO THE SHOP DRAWINGS:
- 1. CONTRACTOR SHALL SUBMIT WITHIN 30-DAYS AFTER AWARD OF CONTRACT, DRAWINGS AND/OR CUT SHEETS OF ALL MATERIALS AND EQUIPMENT, AND 1/4" SCALE EQUIPMENT ROOM DRAWINGS FOR APPROVAL BY ARCHITECT-ENGINEER. SUCH SUBMITTALS MUST CONTAIN OUTLINE DIMENSIONS, OPERATING CLEARANCES, INSTALLATION, OPERATING AND MAINTENANCE INFORMATION AND SUFFICIENT ENGINEERING DATA TO INDICATE SUBSTANTIAL COMPLIANCE WITH SPECIFICATIONS. ALL SHOP DRAWINGS FOR ONE SECTION OF WORK OR ONE MECHANICAL SYSTEM SHALL BE SUBMITTED AT ONE TIME IN LOOSE-LEAF 3-RING BINDERS; NO APPROVAL WILL BE GIVEN IF SUBMITTED PIECEMEAL. 2. WHERE CONTRACTOR CONSIDERS ADDITIONAL DETAIL OR SHOP DRAWINGS ESSENTIAL TO PROPER FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING HE SHALL PREPARE SUCH CONSISTENT WITH CURRENT INDUSTRY METHODS AND STANDARDS. ENGINEER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ANY ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND WORKMANLIKE APPEARANCE, PROVIDED SUCH AN ORDERLY INSTALLATION CAN BE MADE USING CUSTOMARY TRADE METHODS. REMOVAL AND REPLACEMENT SHALL BE DONE WHEN DIRECTED IN WRITING BY ENGINEER AT THE CONTRACTOR'S EXPENSE AND WITHOUT ADDITIONAL EXPENSE TO OWNER.
- 3. APPROVAL GRANTED ON SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS GUARANTEE OF MEASUREMENTS OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE MECHANICAL CONTRACTOR OF BASIC RESPONSIBILITIES UNDER THIS
- 4. CHANGES IN FOUNDATIONS, BASES, CONNECTIONS, PIPING, CONTROLS, STARTERS, ELECTRICAL EQUIPMENT, WIRING AND CONDUIT, SPACE OPENINGS, WALLS AND CEILINGS, AND VIBRATION ISOLATION IN ORDER TO ACCOMMODATE SUBSTITUTE EQUIPMENT SHALL BE MADE AT NO ADDITIONALCOST TO THE OWNER.
- 5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND RECEIVE ENGINEER'S APPROVAL BEFORE INSTALLING MATERIALS OR EQUIPMENT. ANY EQUIPMENT OR MATERIALS INSTALLED PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS FROM ENGINEER SHALL BE SUBJECT TO REMOVAL AND/ OR ALTERATION AT THE DISCRETION OF THE MECHANICAL ENGINEER AT NO ADDITIONAL COST. 6. APPROVAL OF ANY SUBMITTED DATA OR SHOP DRAWINGS FOR MATERIALS, EQUIPMENT,
- APPARATUS DEVICES, ARRANGEMENTS AND/OR LAYOUTS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF FURNISHING SAME OF PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITIES AND INSTALLATION DETAILS TO EFFICIENTLY PERFORM REQUIREMENTS AND INTENT OF CONTRACT. SUCH APPROVAL SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT. C. ANY ELECTRICAL DEVIATIONS BETWEEN THE CONTRACT DOCUMENTS AND THE FURNISHED EQUIPMENT MUST BE SEPARATELY ACKNOWLEDGED BY A SUBSTITUTION REQUEST AND ADDITIONALLY
- NOTED ON THE SUBMITTAL D. PROVIDE MECHANICAL SHOP DRAWINGS FOR: AIR HANDLING UNITS, CONDENSING UNITS, VENTILATORS, AIR INLETS AND OUTLETS, DUCT ACCESSORIES, DUCT INSULATION, PIPE INSULATION, TEMPERATURE CONTROLS, DUCT MATERIALS, REFRIGERANT PIPING, CONDENSATE PIPING.
- A. BEFORE STARTING HIS WORK, AND FROM TIME TO TIME AS WORK PROGRESSES, MECHANICAL CONTRACTOR SHALL EXAMINE WORK AND MATERIALS INSTALLED BY OTHERS INSOFAR AS THEY APPLY TO HIS WORK AND SHALL NOTIFY ENGINEER IMMEDIATELY IN WRITING IF CONDITIONS EXIST WHICH WILL PREVENT SATISFACTORY RESULTS IN INSTALLATION OF SYSTEM. B. SHOULD CONTRACTOR START HIS WORK WITHOUT SUCH NOTIFICATION, IT SHALL BE CONSTRUED AS AN ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OR WORK OF OTHERS TO RECEIVE HIS WORK. HE SHALL REMOVE AND REPLACE, AT HIS OWN EXPENSE, ALL WORK UNDER THIS
- CONTRACT WHICH MAY HAVE TO BE REMOVED ON ACCOUNT OF SUCH DEFECTS. 1.07 ELECTRICAL COORDINATION A. ALL STARTERS, OVERLOAD RELAY HEATER COILS, DISCONNECT SWITCHES AND FUSES, RELAYS, WIRE, CONDUIT, PUSHBUTTONS, PILOT LIGHTS, AND OTHER DEVICES REQUIRED FOR THE CONTROL OF
- MOTORS OR ELECTRICAL EQUIPMENT ARE FURNISHED AND INSTALLED AS INDICATED ON THE MOTOR CONTROL SCHEDULE. B. ELECTRICAL CONTRACTOR WILL PROVIDE ALL POWER WIRING AND CONTROL WIRING, EXCEPT
- TEMPERATURE CONTROL WIRING. C. FURNISH PROJECT SPECIFIC WIRING DIAGRAMS TO ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND DEVICES FURNISHED BY THIS CONTRACTOR AND INDICATED TO BE WIRED BY THE ELECTRICAL

1.07 CONTRACT DRAWINGS

1.06 CONNECTING TO WORK OF OTHERS

- A. IT IS THE INTENT OF DRAWINGS AND SPECIFICATIONS TO OBTAIN A COMPLETE AND FULLY OPERATIONAL, AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO SEPARATE AND COMPLETELY DEFINE WORK UNDER THIS CONTRACT. HOWEVER, SUCH SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS SHALL NOT RELIEVE CONTRACTOR FROM FULL RESPONSIBILITY OF COMPLIANCE WITH WORK OF HIS TRADE WHICH MAY BE INDICATED ON ANY DRAWING OR IN ANY SECTION OF THE SPECIFICATIONS.
- B. CONTRACTOR SHALL CAREFULLY EXAMINE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT WITH APPROPRIATE SERVICES ALL ITEMS SHOWN ON ANY DRAWINGS WITHOUT ADDITIONAL EXPENSE TO OWNER. ARCHITECT SHALL BE NOTIFIED PRIOR TO BID DATE OF ANY DISCREPANCIES, OMISSIONS, CONFLICTS OR INTERFERENCES WHICH OCCUR BETWEEN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS. IF SUCH NOTIFICATION IS RECEIVED IN ADEQUATE TIME, ADDITIONAL DATA OR CHANGES WILL BE ISSUED BY ADDENDUM TO ALL BIDDERS. SUBMITTAL OF BID BY CONTRACTOR SHALL INDICATE THE CONTRACTOR'S ACKNOWLEDGEMENT AND ACCEPTANCE TO PROVIDE ALL NECESSARY EQUIPMENT, MATERIALS AND LABOR TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH ALL CODE REQUIREMENTS. C. ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS WITH REFERENCE TO BUILDING CONSTRUCTION. MECHANICAL DRAWINGS ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF BUILDING AND WORK OF OTHER TRADES WILL PERMIT. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS. CHANGES FROM DRAWINGS NECESSARY TO MAKE WORK OF CONTRACTOR CONFORM WITH BUILDING AS CONSTRUCTED AND TO FIT WORK OF OTHER TRADES OR RULES OF BODIES HAVING JURISDICTION SHALL BE MADE BY CONTRACTOR AT HIS OWN EXPENSE. SOME DRAWINGS MAY HAVE BEEN PREPARED FROM EXISTING DRAWINGS WITH INTENT OF PROVIDING THE CONTRACTOR WITH INFORMATION CONCERNING THE EXISTING CONDITIONS. DATA SHOWN HAS NOT BEEN COMPLETELY VERIFIED BY ARCHITECT/ENGINEER AND NO GUARANTEE OF ACCURACY OF THIS INFORMATION IS GIVEN OR INTENDED. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. DATA WHICH IS SHOWN BUT PROVES TO BE INCORRECT SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM INSTALLING HIS WORK WITHIN THE
- AND ABOVE THE BASIC INTENT OF THESE PLANS AND SPECIFICATIONS. 1.08 DAMAGE TO OTHER WORK A. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PROTECTIVE MEASURES WHEN WORKING OVERHEAD OR IN FINISHED AREAS. HE/SHE SHALL REPAIR, REPLACE OR TOUCH-UP ALL FINISHED SURFACES... WHICH MAY BE DAMAGED AS A RESULT OF HIS OPERATIONS.

INTENT OF PLANS AND SPECIFICATIONS, NOR SHALL IT CONSTITUTE BASIS FOR A CHANGE ORDER

UNLESS, IN THE OPINION OF THE ARCHITECT/ENGINEER IT IS DETERMINED TO BE AN EXTRA COST OVER

- 1.09 STORAGE AND WORK AREAS A. ALL EQUIPMENT AND MATERIALS SHALL BE PROTECTED FROM THE WEATHER, DAMAGE, MOISTURE, DIRT, DEBRIS, ETC. USE OF CARDBOARD, VISQUEEN, OR OTHER SIMILAR MATERIALS WHILE STORED OUTSIDE IS NOT ACCEPTABLE. DO NOT INSTALL DAMAGED EQUIPMENT.
- 1.10 APPROVAL OF MATERIAL A. EQUIPMENT OTHER THAN SPECIFIED IN THE CONTRACT DOCUMENTS REQUIRES APPROVAL FROM ENGINEER 10 DAYS PRIOR TO BID DATE.
- B. WRITTEN REQUEST FOR PRIOR APPROVAL MUST BE RECEIVED IN ENGINEER'S OFFICE BY CLOSE OF BUSINESS NO LATER THAN 10 DAYS PRIOR TO SCHEDULED BID DATE. REQUEST SHALL CONTAIN DETAILED INFORMATION ON THE PROPOSED ITEM. THIS SHALL INCLUDE:
- 1. CATALOG CUTS SHEETS 2. DETAILED SPECIFICATIONS
- 3. DESCRIPTION OF DEVIATION FROM SPECIFIED ITEM.
- C. AN ADDENDA SHALL BE ISSUED LISTING ALL PROSPECTIVE CONTRACTORS LISTING ALL PRIOR APPROVED MANUFACTURERS AND PRODUCTS

PART 2 - PRODUCTS

SUBMITTED FOR REVIEW.

B. RIGID ROUND DUCTWORK:

2.01 AIR TERMINAL BOXES WITH REHEAT

- A. IF ELECTRIC HEATERS ARE SCHEDULED, ADD ELECTRIC HEATERS TO THE TERMINAL BOXES. COILS SHALL MEET THE ELECTRIC COIL SPECIFICATIONS SECTION 23 82 00. DDC SHALL CONTROL THE REHEAT. B. IF HOT WATER COILS ARE SCHEDULED, ADD HOT WATER HEATING COILS TO THE TERMINAL
- BOXES. COILS SHALL MEET THE HOT WATER REHEAT COIL SPECIFICATIONS SECTION 23 82 00. DDC CONTROLLER SHALL CONTROL THE REHEAT. AIR TERMINAL UNIT MANUFACTURER MAY SHIP REHEAT COIL WITH AIR TEMINAL BOX IF MANUFACTURER MEETS ACCESS DOOR CRITERIA. BOX SHALL INCLUDE AN INSULATED HINGED OR DOUBLE CAM LOCK ACCESS PANEL UPSTREAM OF HOT WATER REHEAT COIL. IF MANUFACTURER CANNOT MEET ACCESS DOOR REQUIREMENTS, THE COILS SHALL SHIP SEPERATELY FROM THE BOX. THE CONTRACTOR SHALL INSTALL A 2' DUCT JOINT BETWEEN THE COIL AND THE BOX WITH A HINGES OR DOUBLE CAM LOCK INSULATED ACCESS DOOR IN THE DUCT. BOXES SHALL BE PROVIDED WITH AN
- INSULATED HINGED OR CAM LOCKED ACCESS DOOR DOWNSTREAM OF THE HOT WATER REHEAT OR THE DOOR SHALL BE FIELD INSTALLED. 2.02 LIGHT DUTY CEILING EXHAUST FANS
- A. PROVIDE FANS OF THE SIZE, CAPACITY, AND ELECTRICAL CHARACTERISTICS INDICATED ON THE DRAWINGS. FANS SHALL BE AMCA CERTIFIED AS TO BOTH SOUND AND PERFORMANCE B. MANUFACTURER: PRODUCTS OF LOREN COOK, ACME, GREENHECK, OR PENN MAY BE
- 2.03 AIR DISTRIBUTION SYSTEMS A. LOW PRESSURE DUCT BOARD DUCTWORK: LOW PRESSURE DUCT BOARD DUCTWORK
- CONSTRUCTED OF RIGID BOARD DESIGNED FOR 5,000 FPM.
- a. DUCTWORK SHALL BE GALVANIZED SHEET STEEL, LOCK FORMING QUALITY; ASTM A653/A653M, G90 COATING DESIGNATION. SEAL DUCT SEAMS AND JOINTS ACCORDING TO UL-181A AND UL-181B STANDARDS. SEALANTS SHALL BE TAPES, MASTICS, LIQUIDS, OR GASKETING THAT MEET OR EXCEED THE ABOVE STANDARDS. DUCT SHALL BE COVERED WITH ONE POUND PER CUBIC FOOT FIBERGLASS INSULATION OF 0.25 THERMAL CONDUCTANCE SHEATHED IN A SEAMLESS EXTERIOR CLASS 1 VAPOR BARRIER JACKET WITH A VAPOR CUFF
- FURNISH AND INSTALL ALL INSULATING MATERIALS AND ACCESSORIES AS SPECIFIED OR AS REQUIRED FOR A COMPLETE INSTALLATION.
- MANUFACTURERS: CERTAINTEED, JOHNS MANVILLE, KNAUF INSULATION, OWENS-CORNING, OR APPROVED EQUAL. USE COMPOSITE INSULATION SYSTEMS (INSULATION, JACKETS, SEALANTS, MASTICS, AND ADHESIVES) THAT HAVE A FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS, WITH THE FOLLOWING EXCEPTIONS: INSULATION TYPES
- INSULATING MATERIALS SHALL BE FIRE RETARDANT, MOISTURE AND MILDEW RESISTANT, AND VERMIN PROOF. INSULATION SHALL BE SUITABLE TO RECEIVE JACKETS, ADHESIVES AND COATINGS AS INDICATED.
- 4. FIBERGLASS INSULATION ADHESIVE: MUST COMPLY WITH ASTM C916, TYPE II: FOSTER 85-60, CHILDERS CP-127, KI-900 OR KI-905, FOIL SCRIM KRAFT ALL SERVICE JACKETS (FSK): GLASS FIBER REINFORCED FOIL KRAFT LAMINATE, FACTORY APPLIED TO INSULATION. MAXIMUM PERMEANCE OF .02 PERMS AND MINIMUM BEACH PUNCTURE RESISTANCE OF 25 UNITS.
- ALL PIPE AND DUCT INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OR FLOOR OPENINGS AND THROUGH SLEEVES. PROVIDE A CONTINUOUS UNBROKEN MOISTURE VAPOR RETARDING JACKET ON INSULATION APPLIED TO SYSTEMS NOTED BELOW. ATTACHMENTS TO COLD SURFACES SHALL BE INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION. 6. DUCT INSULATION SECURE FLEXIBLE BLANKET DUCT INSULATION ON SIDES AND BOTTOM OF DUCTWORK OVER
- 24" WIDE WITH WELD PINS. SPACE FASTENERS 18" ON CENTER OR LESS AS REQUIRED TO PREVENT SAGGING. COMPRESS INSULATION NO MORE THAN 25%. SECURE RIGID BOARD INSULATION TO DUCTWORK WITH WELD PINS. APPLY INSULATION WITH JOINTS FIRMLY BUTTED TOGETHER AND PLACED AS CLOSE AS POSSIBLE TO THE EQUIPMENT SURFACE. PINS SHALL BE LOCATED A MAXIMUM OF 3" FROM EACH EDGE AND SPACED NO GREATER THAN 12" ON CENTER.
- 7. DUCT INSULATION SCHEDULE PROVIDE DUCT INSULATION ON NEW DUCTWORK IN THE FOLLOWING SCHEDULE: C. DUCT SYSTEM ACCESSORIES:
- . GENERAL: PROVIDE ALL NECESSARY DUCT SYSTEM ACCESSORIES TO ASSURE PROPER BALANCE, QUIET AND DRAFTLESS DISTRIBUTION AND CONVEYANCE, AND MINIMIZATION OF TURBULENCE, NOISE AND PRESSURE DROP FOR ALL SUPPLY, RETURN, EXHAUST AND VENTILATION AIR QUANTITIES INDICATED. ACCESSORIES SHALL BE RECOMMENDED BY THEIR MANUFACTURER FOR EACH
- 2. FLEXIBLE DUCT CONNECTIONS: PROVIDE WHERE AIR HANDLERS, FANS AND BLOWERS CONNECT TO THEIR DUCTWORK. SHALL BE AT LEAST 4-INCHES LONG CONNECTED ON EACH SIDE TO METAL (EITHER METAL DUCTWORK, AIR HANDLING APPARATUS, OR HEAVY GAUGE STEEL SLEEVES), AND BE SUITABLE FOR USE IN MEDIUM AND/OR LOW PRESSURE DUCT SYSTEMS. PROVIDE BRAIDED COPPER BRIDGE STRAP EQUAL TO THOMPSON LIGHTNING PROTECTION, INC. NO. 588 ACROSS EACH CONNECTION. ACCEPTABLE: VENTFABRICS, INC.
- "VENTGLAS METAL- EDGE" OR PRIOR APPROVED EQUAL. 3. MANUAL VOLUME DAMPERS (OTHER THAN THOSE SPECIFIED AS BEING INTEGRAL WITH EACH REGISTER, DIFFUSER AND OTHER AIR OUTLET OR INLET): PROVIDED IN THE COMPLETE AIR DISTRIBUTION SYSTEM(S) (INCLUDING DUCTWORK, RETURN AIR PLENUMS, ETC.) TO ALLOW COMPLETE BALANCING OF THE AIR SUPPLY, RETURN, VENTILATION AND EXHAUST SYSTEM(S). DAMPERS SHALL BE OPPOSED BLADE TYPE WITH 8-INCH MAXIMUM BLADE WIDTH. DAMPERS SHALL BE MADE OF GALVANIZED STEEL, OR STEEL WITH A SPRAYED OR DIPPED ALUMINUM RUST RESISTANT FINISH AND BE FLUTTER-PROOF. USE IN LOW PRESSURE DUCT SYSTEMS ONLY. BASED UPON LOCATION OF THE DUCT IN WHICH THE DAMPER IS TO BE INSTALLED, PROVIDE THE FOLLOWING TYPES OF OPERATORS: DAMPERS IN DUCTS WHICH ARE EXPOSED OR LOCATED ABOVE "LAY-IN" OR "ACCESSIBLE CEILINGS": YOUNG REGULATOR COMPANY MODEL 817. DAMPERS IN DUCTS CONCEALED ABOVE PLASTER CEILINGS OR BEHIND DRY
- WALL CONSTRUCTION; YOUNG REGULATOR COMPANY MODEL 817A. ACCEPTABLE: PRODUCTS OF TUTTLE & BAILEY, ANEMOSTAT, METALAIRE, KRUEGER, OR BARBER-COLMAN. 4. FIRE DAMPERS: PROVIDE FIRE DAMPERS WHERE INDICATED ON DRAWINGS AND/OR WHERE OTHERWISE NECESSARY. FIRE DAMPERS SHALL BE UL LABELED CLUSTERED BLADE TYPE. SPRING ACTUATED, FOR HORIZONTAL OR VERTICAL MOUNTING AS REQUIRED. DAMPER BLADES SHALL BE HELD IN POSITION BY A 165 DEGREE F FUSIBLE LINK. DAMPER SLEEVES SHALL BE 14-GAUGE MINIMUM AND ALL OTHER DETAILS OF INSTALLATION SHALL COMPLY WITH THE UL INSTALLATION DATA SHEETS FURNISHED WITH THE DAMPERS. OPENINGS BETWEEN THE FIRE DAMPER SLEEVES AND THE WALL OR FLOOR OPENINGS SHALL BE FILLED WITH FIBERGLASS BATTING TO PREVENT SOUND FLANKING. CLUSTER BLADES SHALL COMPLETELY
- ACCEPTABLE: RUSKIN, AIR BALANCE; AMERICAN WARMING AND VENTILATING; TUTTLE & BAILEY; UNITED SHEET METAL; OR APPROVED EQUAL. 5. LOW PRESSURE DUCT ACCESS DOORS: PROVIDED FOR EACH MANUAL AND MOTORIZED DAMPER; FIRE DAMPER; ELECTRIC DUCT HEATER; AND WHERE ACCESS IS OTHERWISE NECESSARY. FACTORY REFABRICATED DOUBLE WALL INSULATED TYPE OF 24-GAUGE GALVANIZED STEEL (OF SAME OR THICKER GAUGE THAN DUCTWORK PANEL IN WHICH INSTALLED, WHICHEVER IS GREATER. MINIMUM SIZE SHALL BE AS LARGE AS IS COMPATIBLE

WITH DUCT SIZE BUT IN NO CASE LESS THAN THE FOLLOWING (PROVIDE LARGER SIZES IF

NECESSARY TO PERMIT PROPER ACCESS OPERATION): MAXIMUM DUCT DIMENSIONS ACCESS DOOR SIZE 11" AND LESS MAXIMUM DUCT DIMENSIONS X 12" 12" THROUGH 16" 12 X 16"

OUTSIDE AIR STREAM FOR ALL DUCT SYSTEMS (TYPE B).

17" AND OVER 06 X 24" DOORS SHALL BE PROVIDED WITH HAND OPERATED ADJUSTABLE TENSION CATCHES AND SHALL BE COMPLETELY GASKETED AROUND THEIR PERIMETERS. DOORS SHALL BE VENTLOK "ACCESS DOORS". INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS USING VENTLOK #360 SEALANT.

2.04 AIR DISTRIBUTION SYSTEMS (CONT)

- A. AIR DISTRIBUTION DEVICES: 1. SCOPE: PROVIDE ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM FREE FROM DRAFTS AND
- 2. RELATION TO OTHER WORK: COORDINATE WITH WORK OF THE CEILING, DRYWALL AND PLASTERING TRADES AS REQUIRED TO INSURE AN ORDERLY PROGRESSION OF WORK AND FIRST CLASS FINISHED SYSTEM WITH RESPECT TO PLACEMENT, ALIGNMENT, FINISH AND GENERAL FIT. 3. DESIGN CONDITIONS:
- a. ACOUSTICAL: COORDINATE AIR DISTRIBUTION DEVICES, SOUND ATTENUATION MEASURES, AND EQUIPMENT ACTUALLY PROVIDED TO INSURE THAT THE DESIGN GOALS ARE NOT EXCEEDED BY THE SYSTEM INSTALLED.
- b. PRESSURE DROP ACROSS ANY AIR DISTRIBUTION DEVICE SHALL NOT EXCEED 0.15 IN W.G. STATIC PRESSURE UNLESS OTHERWISE INDICATED.
- c. GUARANTEE: AIR DISTRIBUTION EQUIPMENT SHALL BE GUARANTEED BY THE MANUFACTURER TO OPERATE WITHOUT EXCESSIVE NOISE AND WITH VELOCITIES IN THE FIVE FOOT OCCUPANCY ZONE, WHEN HANDLING AIR WITH TEMPERATURE DIFFERENTIALS AS HIGH AS 25 DEGREES, NOT TO EXCEED 30 FPM AT A 2 DEGREE DIFFERENCE, 50 FPM AT 1-1/2 DEGREE DIFFERENCE, OR 75 FPM AT A 1 DEGREE DIFFERENCE WHEN OPERATING WITH AN AVERAGE 75 DEGREE ROOM TEMPERATURE AND MEASURED NO CLOSER THAN 6 INCHES
- FROM A WALL SURFACE. 4. MANUFACTURER: TITUS, METAL*AIRE, CARNES, KRUEGER, ANEMOSTAT OR TUTTLE &
- MANUFACTURERS MODEL NUMBERS INDICATED ARE EXAMPLES OF PRODUCTS TO BE 5. MANUFACTURERS MUST BE MEMBERS OF THE AIR DISTRIBUTION COUNCIL UNLESS
- OTHERWISE INDICATED. 6. ALL AIR DISTRIBUTION DEVICES SHALL BE CONSTRUCTED OF EXTRUDED ALUMINUM
- OTHERWISE INDICATED. 7. WHERE CONTINUOUS LINEAR SUPPLY AND RETURN DEVICES ARE SHOWN AS ABUTTING ONE ANOTHER IN A SINGLE DIRECTION, THEN THE TOTAL UNBROKEN VISIBLE LENGTH OF THE LINEAR SUPPLY/RETURN DEVICE SHALL EQUAL THE SUM OF THE NOMINAL LENGTHS OF THE
- 8. EACH AIR DISTRIBUTION DEVICE WHICH HAS A PORTION THEREOF (FRAME, CORE, ETC.) EXPOSED TO VIEW IN THE FINISHED AREA SHALL HAVE A FACTORY APPLIED FINISH WHICH MATCHES AND IS COMPATIBLE WITH THE COLOR OF THE SURROUNDING SURFACE ON WHICH THE DEVICE IS INSTALLED. COLORS MUST BE APPROVED BY ARCHITECT PRIOR TO DEVICE
- 9. ALL DAMPERS, BLANK-OFF BAFFLES AND OTHER COMPANION DEVICES WHICH FORM AN INTEGRAL PART OF AN AIR DISTRIBUTION DEVICE SHALL BE FACTORY MADE ITEMS PRODUCED BY THE MANUFACTURER OF THE AIR DISTRIBUTION DEVICE. PART 3 - EXECUTION

3.01 AIR DISTRIBUTION SYSTEMS

A. GENERAL: CONSTRUCT ALL DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH LATEST EDITIONS OF APPLICABLE SMACNA MANUALS. STREAMLINE ALL DUCTWORK TO THE FULL EXTENT PRACTICAL AND EQUIP WITH PROPER AND ADEQUATE DEVICES TO ASSURE PROPER BALANCE AND QUIET DRAFTLESS DISTRIBUTION OF INDICATED AIR QUANTITIES. PROTECT ALL DUCTWORK AND SYSTEM ACCESSORIES FROM DAMAGE DURING CONSTRUCTION UNTIL ARCHITECT'S FINAL ACCEPTANCE OF PROJECT. PRIOR TO DUCTWORK FABRICATION, VERIFY IF ALL DUCTWORK AS DIMENSIONED AND GENERALLY SHOWN WILL SATISFACTORILY FIT ALLOCATED SPACES. TAKE PRECAUTIONS TO AVOID SPACE INTERFERENCE WITH BEAMS, COLUMNS, JOISTS, PIPES, LIGHTS, CONDUIT, OTHER DUCTS, EQUIPMENT, ETC. NOTIFY ARCHITECT IF ANY SPATIAL CONFLICTS EXIST, AND THEN OBTAIN ARCHITECT'S APPROVAL OF NECESSARY ROUTING. MAKE ANY SUCH NECESSARY REVISIONS WHICH ARE MINOR AT NO ADDITIONAL COST. CAREFULLY CORRELATE ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS TO PROVIDE PROPER CONNECTIONS, ELBOWS AND BENDS WHICH MINIMIZE NOISE AND PRESSURE DROP. PROVIDE ALL CURVED ELBOWS WITH RADIUS RATIOS OF NOT LESS THAN 1.5 UNLESS OTHERWISE SHOWN OR APPROVED BY ARCHITECT. PROVIDE ALL MITERED ELBOWS WITH TURNING VANES. COORDINATE ANY AND ALL DIMENSIONS AT INTERFACES OF DISSIMILAR TYPE OF DUCTWORK AND AT INTERFACES OF DUCTWORK WITH EQUIPMENT SO THAT PROPER OVERLAPS, INTERFACES, ETC., OF INSULATION AND CONTINUITY OF VAPOR BARRIERS ARE MAINTAINED. IF NECESSARY, WHERE INTERFACING DIFFERENT TYPES OF INSULATION PROVIDE TRANSITIONS SO THAT INTERNAL FREE AREA OF DUCT REMAINS UNCHANGED. INSTALL HORIZONTAL RIGID DUCTWORK AS HIGH AS PRACTICAL ABOVE SUSPENDED CEILINGS SO THAT MOVABLE LIGHT FIXTURES MAY BE RELOCATED WITHOUT INTERFERENCE TO MEET ANY FUTURE PARTITION RELOCATION REQUIREMENTS. B. HANGERS AND SUPPORTS:

a. SHEET METAL DUCT HANGERS: SUPPORT DUCTS FROM THE BUILDING STRUCTURE WITH GALVANIZED STEEL HANGERS TO EACH SIDE OF THE DUCT. HANGERS FOR DUCT TO 60-IN. SHALL BE 1" X 1/8" GALVANIZED STEEL BAND. SPACE HANGERS APPROXIMATELY 8- FT. (8') ALONG THE LENGTH OF DUCT. HANGERS SHALL EXTEND DOWN THE SIDE OF DUCT AND TURN UNDER. SHALL BE SECURED TO DUCT BY TWO OR MORE #14 SHEET METAL SCREWS. WHERE SPRAYED FIRE-PROOFING OCCURS, INSTALL HANGERS BEFORE APPLICATION OF SUCH TREATMENT AND WITHHOLD INSTALLATION OF DUCTS UNTIL AFTER APPLICATION.

b. FIBERGLASS DUCT HANGERS: SUPPORT GLASS FIBER DUCT FROM THE BUILDING STRUCTURE WITH 3/4-IN. PERFORATED 24 GAUGE STEEL STRAPS OR #12 WIRE, SECURELY ANCHORED TO STRUCTURE ABOVE AND TO A 2" X 1" X 1" 24 GAUGE STEEL ANGLE, OR EQUIVALENT, CROSS SUPPORT UNDER THE DUCT. SPACE HANGARS AT ALL TURNS AND TRANSITIONS, AT NOT MORE THAN EIGHT FOOT (8') CENTERS ON STRAIGHT RUNS, AND ELSEWHERE AS NECESSARY TO MAINTAIN TRUE ALIGNMENT

SUPPORTS VERTICAL RISERS AND OTHER DUCT RUNS WHERE THE METHOD OF SUPPORT SPECIFIED ABOVE IS NOT APPLICABLE SHALL BE SUPPORTED BY SUBSTANTIAL ANGLE BRACKETS DESIGNED TO MEET FIELD CONDITIONS AND INSTALLED TO ALLOW FOR DUCT EXPANSION.

3. FASTENERS: SECURE HANGERS TO STEEL BEAMS OR METAL DECK WITH BEAM CLAMPS OR DROP THROUGH CONNECTIONS FROM THE METAL OR CONCRETE DECK. C. FLEXIBLE DUCT:

- INSTALL ALL FLEXIBLE ROUND DUCT WITHOUT KINKS OR SIMILAR OBSTRUCTIONS SO THAT PRESSURE DROP IS MINIMIZED. CUT AND REMOVE EXCESS LENGTHS AS NECESSARY. D. CHANGE IN SHAPE OR DIMENSION:
- WHERE DUCT SIZE OR SHAPE IS CHANGED TO EFFECT A CHANGE IN AREA, THE FOLLOWING SHALL APPLY:
- a. WHERE THE AREA AT THE END OF THE TRANSFORMATION RESULTS IN AN INCREASE IN AREA OVER THAT AT THE BEGINNING, THE SLOPE OF THE TRANSFORMATION SHALL NOT EXCEED ONE INCH IN SEVEN INCHES. b. WHERE THE AREA AT THE END OF THE TRANSFORMATION RESULTS IN A DECREASE IN
- AREA FROM THAT AT THE BEGINNING, THE SLOPE OF THE TRANSFORMATION MAY BE ONE INCH IN FOUR INCHES, BUT ONE INCH IN SEVEN INCHES IS PREFERABLE, SPACE PERMITTING. c. THE ANGLE OF TRANSFORMATION AT CONNECTIONS TO HEATING COILS OR OTHER EQUIPMENT SHALL NOT EXCEED THIRTY DEGREES FROM A LINE PARALLEL TO THE AIR FLOW ON THE ENTERING SIDE OF THE EQUIPMENT, NOR FIFTEEN DEGREES ON THE LEAVING SIDE. THE ANGLE OF APPROACH MAY BE INCREASED TO SUIT LIMITED SPACE CONDITIONS WHEN THE TRANSFORMATION IS PROVIDED WITH VANES APPROVED BY THE ARCHITECT. d. ALL CHANGES IN SHAPE OR DIMENSION MUST BE APPROVED BY ENGINEER BEFORE
- INSTALLATION OF DUCT. E. CHANGES IN DIRECTION: CHANGES IN DIRECTION SHALL BE BASICALLY AS INDICATED ON THE DRAWINGS AND THE FOLLOWING SHALL APPLY: a. SUPPLY DUCT TURNS OF NINETY DEGREES IN LOW PRESSURE DUCT SHALL BE MADE WITH MITERED ELBOWS FITTED WITH CLOSELY SPACED TURNING VANES DESIGNED FOR
- MAINTAINING A CONSTANT VELOCITY THROUGH THE ELBOW. b. RETURN AND EXHAUST DUCT TURNS OF NINETY DEGREES IN LOW PRESSURE DUCT SHALL BE MADE WITH MITERED ELBOWS, AS SPECIFIED HEREINBEFORE, FOR SUPPLY DUCTS, UNLESS RADIUS ELBOWS ARE INDICATED IN WHICH CASE THEY SHALL BE VANED AND CONSTRUCTED WITH A THROAT RADIUS THREE-QUARTERS THE DUCT WIDTH AND A FULL RADIUS HEEL. c. TEES IN LOW PRESSURE DUCT SHALL CONFORM TO THE DESIGN REQUIREMENTS
- SPECIFIED HEREIN BEFORE FOR ELBOWS. d. BRANCH TAKE-OFFS IN LOW PRESSURE DUCT SHALL BE MADE WITH SPLITTER DAMPERS, AS INDICATED, IN SQUARE TAKE OFFS.

e. BRANCH TAKE-OFFS IN HIGH PRESSURE DUCT SHALL BE MADE WITH CONICAL TAPS. LOW PRESSURE GLASS FIBER DUCTWORK: MITER ALL LONGITUDINAL CORNERS (EXCEPT SEAMS) WITH JACKET UNDISTURBED. PROVIDE SHIP LAP CONSTRUCTION WITH 1-1/2 INCH MINIMUM TAPE OVERLAP ON ALL SIDES OF ALL LONGITUDINAL SEAMS AND TRANSVERSE JOINTS. PROVIDE ALL REINFORCEMENT, BRACING, SUSPENSION, WORKMANSHIP AND CONSTRUCTION DETAILS FOR THIS DUCTWORK AND ITS ACCESSORIES IN STRICT ACCORD WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION'S LATEST EDITION OF THE FIBROUS GLASS DUCT CONSTRUCTION STANDARDS, WHICHEVER IS MORE STRINGENT. COMPLETED DUCT SYSTEM(S) SHALL BE STABLE AND AIRTIGHT AT 2 INCHES W.G. INTERNAL STATIC PRESSURE. ENTIRE DUCT SYSTEM(S) SHALL BE INSTALLED BY AN A/E APPROVED, MANUFACTURER'S LICENSED CONTRACTOR. ENTIRELY COMPLY WITH NFPA BULLETIN 90A AND BE U.L.-181, CLASS I. TAPED JOINTS ON FIBERGLASS DUCTWORK SHALL BE MADE BY FIRST TAPING THE JOINT, THEN STAPLING THROUGH THE TAPE ON BOTH SIDES OF THE JOINT INTERFACE, AND THEN ADDING ANOTHER LAYER OF TAPE OVER THE STAPLED AND TAPED JOINT. STAPLES SHALL BE IN PAIRS WITH ONE STAPLE ON EACH SIDE OF THE JOINT INTERFACE AND WITH A DISTANCE BETWEEN STAPLE PAIRS OF NOT GREATER THAN 3 INCHES AS MEASURED AROUND THE PERIMETER OF THE TAPED JOINTS. STAPLES SHALL BE MINIMUM 1/2" X 1/2".

PROVIDE MASTIC MINIMUM TWO INCHES ON EITHER SIDE OF CLOSURE TAPE.

3.02 OPENINGS, CUTTING AND PATCHING

A. GENERAL: CONTRACTOR SHALL SET IN POSITION ALL SLEEVES AND INSERTS REQUIRED IN WALLS, PARTITIONS, CEILINGS, OR FLOORS, AND SHALL HAVE A REPRESENTATIVE ON-SITE DURING POURING OF CONCRETE TO MAINTAIN POSITION OF SLEEVES AND INSERTS UNTIL CONCRETE IS SET. CLOSE COORDINATION IS REQUIRED TO INSURE THAT ALL SLEEVES ARE PROPERLY SET. CORRECTNESS OF SIZE AND LOCATION OF OPENINGS SHALL BE VERIFIED BY CONTRACTOR AFTER FRAMING IS IN PLACE. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF EXISTING AND/OR NEW BUILDING MATERIALS REQUIRED FOR INSTALLATION OF WORK HEREIN SPECIFIED. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT APPROVAL OF STRUCTURAL ENGINEER AND ALL SUCH CUTTING SHALL BE DONE IN A NEAT

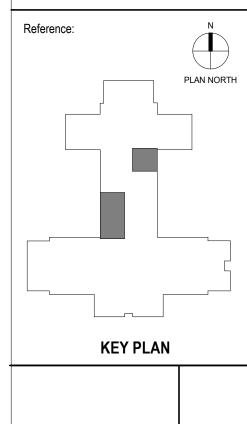
AND WORKMANLIKE MANNER, MEETING WITH APPROVAL OF STRUCTURAL ENGINEER TO MATCH ADJOINING SURFACES AND FINISHES, BY MECHANICS OF PARTICULAR TRADE INVOLVED. SLEEVES AND OPENINGS NOT USED DURING CONSTRUCTION SHALL BE SEALED WITH GROUT BY CONTRACTOR. OPENINGS BETWEEN PIPES AND SLEEVES THROUGH FIRE AND SMOKE WALLS OR FLOORS SHALL BE SEALED TO PREVENT PASSAGE OF SMOKE OR HEAT USING AN UNDERWRITERS' LABORATORIES APPROVED METHOD RATED AT LEAST EQUAL TO THE BARRIER BEING PENETRATED. METHOD OF SEALING SHALL BE SUBMITTED WITH PROOF OF U.L. APPROVAL WITH OTHER SUBMITTALS. ALL OPENINGS REQUIRED IN CONCRETE WHICH WERE OMITTED WHEN CONCRETE WAS POURED SHALL BE CAREFULLY MADE BY USE OF CORE BORING OPERATION WITH 5-IN. MAXIMUM HOLE SIZE UNLESS LARGER SIZE IS APPROVED BY STRUCTURAL ENGINEER. CUT NO OPENINGS IN PRESTRESSED OR PRECAST MEMBERS WITHOUT APPROVAL OF STRUCTURAL ENGINEER

BACKFILLING SECTION OF DIVISION 2.

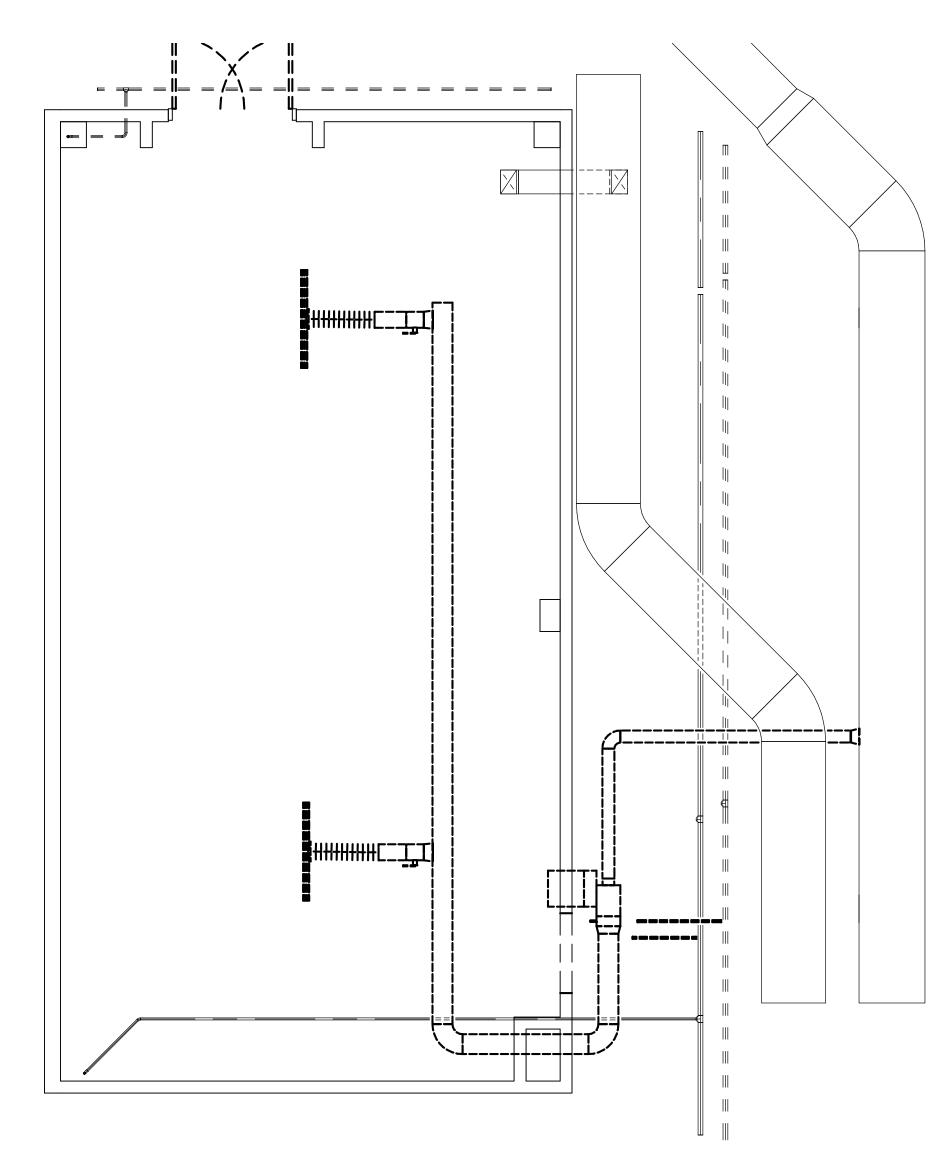
- a. PIPE SLEEVES 8-INCH DIAMETER AND SMALLER (ABOVE GRADE): SLEEVES SHALL BE MILD STEEL PIPE OR PLASTIC SLEEVES BUILT INTO WALL, PARTITION OR BEAM, SIZED TO PASS PIPE AND COVERING LEAVING A CLEAR SPACE OF 1/4-INCH MINIMUM BETWEEN COVERING AND SLEEVE. PENETRATIONS OF
- FIRE RATED BARRIERS SHALL HAVE MILD STEEL SLEEVES. b. PIPE SLEEVES INSTALLED IN EXTERIOR WALLS BELOW GRADE: SCHEDULE 40 STEEL HOT DIPPED GALVANIZED AFTER FABRICATION OR CAST IRON SLEEVE WITH 1/4-INCH X 3-INCH CENTER FLANGE
- (WATER STOP) AROUND THE OUTSIDE. 2. PIPE SLEEVES IN FLOORS (ABOVE GRADE): SLEEVES SHALL BE 14 GAUGE GALVANIZED SHEET STEEL OR PLASTIC, SET BEFORE FLOOR IS POURED, SIZED TO PASS PIPE AND COVERING, LEAVING A CLEAR SPACE OF 1/4-INCH BETWEEN COVERING AND SLEEVE, AND SHALL EXTEND 1/2-INCH ABOVE FINISHED
- 3. DUCT SLEEVES: SLEEVES OR OPENINGS SIZED TO PASS MECHANICAL DUCTS AND COVERING SHALL BE OF FRAMED CONSTRUCTION IN ROOF, WALL, OR PARTITIONS.
- C. SEALING OF SLEEVES: 1. SLEEVES BELOW GRADE: CAULK ANNULAR SPACE BETWEEN PIPE AND SLEEVE USING OAKUM AND
- POURED LEAD BOTH SIDES MINIMUM ONE INCH DEEP TO MAKE WALL PENETRATION WATER TIGHT. 2. SLEEVES ABOVE GRADE: OPENINGS AROUND PIPES, DUCT, ETC., PASSING THROUGH SLEEVES SHALL BE MADE DRAFT FREE AND VERMIN-PROOF BY PACKING SOLIDLY WITH MINERAL WOOL OR FIBERGLASS. 3. SEALING OF SLEEVES THROUGH FIRE RATED BARRIERS: OPENINGS AROUND PIPES, ETC., THROUGH
- FIRE RATED BARRIERS SHALL BE SEALED USING AN U.L. APPROVED METHOD RATED AT LEAST EQUAL TO THE WALL BEING PENETRATED. 3.03 REMOVAL OF RUBBISH CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL
- OR RUBBISH GENERATED BY WORK UNDER THIS CONTRACT. 3.04EXCAVATION, BACKFILLING AND COMPACTION ALL EXCAVATION, BACKFILLING, COMPACTION, TESTING, ETC. REQUIRED FOR THE INSTALLATION OF UNDERGROUND PIPING IN THIS DIVISION OF THE SPECIFICATIONS SHALL BE DONE BY THE MECHANICAL CONTRACTOR. THIS WORK SHALL BE DONE IN STRICT ACCORDANCE WITH EXCAVATION AND
- 3.05CLEANING AND ADJUSTMENTS UPON COMPLETION OF WORK, CONTRACTOR SHALL CLEAN, OIL AND GREASE ALL FANS, MOTORS AND OTHER RUNNING EQUIPMENT AND APPARATUS WHICH HE INSTALLS AND MAKE CERTAIN ALL SUCH APPARATUS AND MECHANISMS ARE IN PROPER WORKING ORDER AND READY FOR TEST. REFER TO SECTION ENTITLED "SYSTEMS COMPLETION".

UPON COMPLETION OF INSTALLATION, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT A SET OF DRAWINGS, MARKED TO SCALE, INDICATING THE SIZE AND LOCATION OF PIPING AND DUCTS, AND NOTING ALL MAJOR CHANGES MADE DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN THE DRAWINGS FROM THE ARCHITECT AND SHALL BEAR ALL COSTS IN OBTAINING THE DRAWINGS AND PROVIDING THE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL DELIVER THE DRAWINGS PLUS TWO SETS OF AS-BUILT DRAWINGS TO THE ARCHITECT. EACH SHEET IN EACH SET SHALL BE SIGNED BY A PRINCIPAL REPRESENTATIVE OF THE CONTRACTOR, DATED AND HAVE "AS-BUILT" STAMPED NEAR THE SIGNATURE. DRAWINGS SHALL GIVE ACCURATE DIMENSIONS MEASURED FROM COLUMNS, WALLS, BEAMS AND OTHER FIXED PARTS OF THE BUILDING TO THE CONCEALED MATERIALS. THE CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE SITE AND EACH DAY SHALL RECORD INSTALLATION OF PIPE, DUCTS, ETC. TO INSURE ACCURATE "AS-BUILT" DRAWINGS. THE CONTRACTOR SHALL ALSO FURNISH A SET OF DRAWINGS AND TWO SETS OF CONTRACTOR SIGNED AND DATED AS-BUILT DRAWINGS OF THE CONTROLS.

3.07GUARANTEE AND SERVICE A. IN ADDITION TO THE GUARANTEE OF EQUIPMENT BY THE MANUFACTURER OF EACH PIECE OF EQUIPMENT SPECIFIED HEREIN, THE MECHANICAL CONTRACTOR SHALL ALSO GUARANTEE SUCH EQUIPMENT AND SHALL BE HELD RESPONSIBLE FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE FOR NECESSARY ADJUSTMENTS AND/OR REPLACEMENTS OF ALL DEFECTIVE EQUIPMENT, MATER



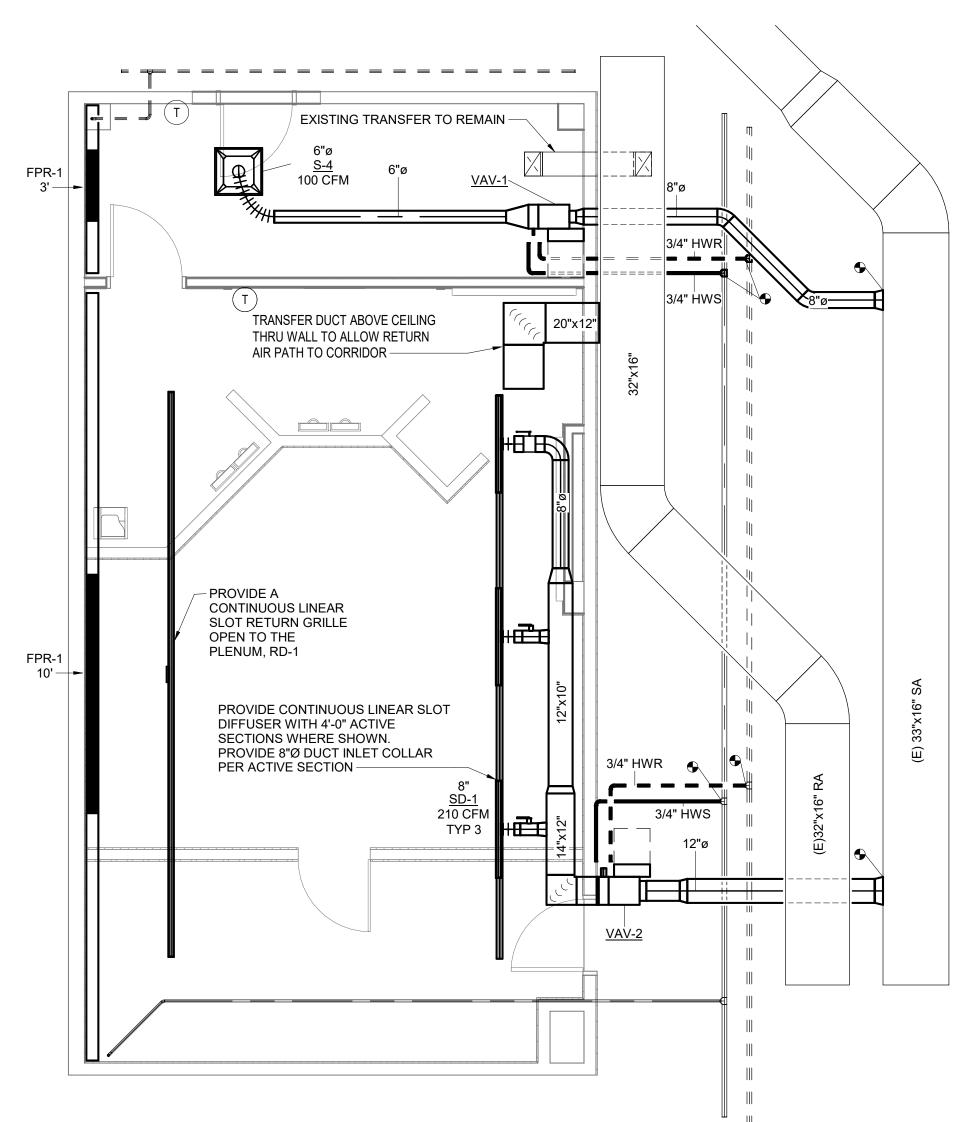
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THIRD FLOOR MECHANICAL DEMO PLAN

1/4" = 1'-0"

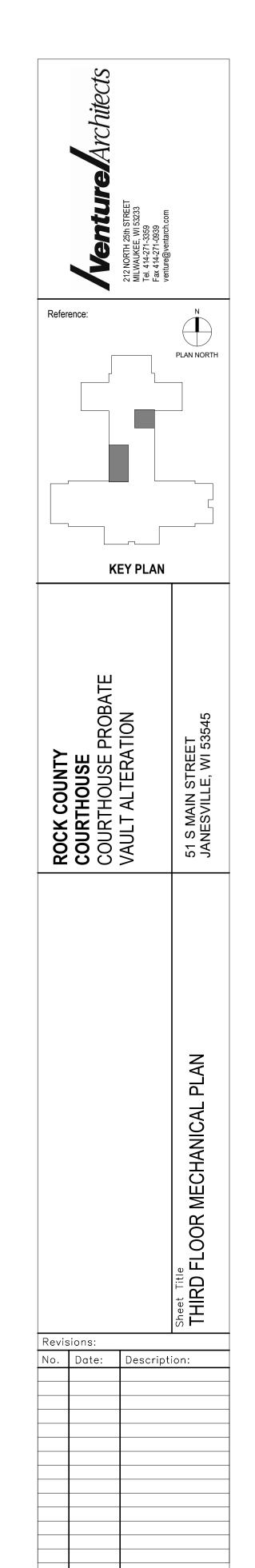
- GENERAL NOTES:
 PROVIDE EXISTING AIR HANDLING UNIT WITH GENERAL MAINTENANCE INCLUDING BUT NOT LIMITED TO; BELTS, FILTERS, CLEANING, AND LUBRICATIONS. BALANCE AIR HANDLING UNIT TO MEET NEW AIRFLOW SHOWN ON PLANS. CHANGE MOTOR OR SHEAVE AS REQUIRED.
 PROVIDE AIR TERMINAL BOXES WITH NEC REQUIRED CLEARANCE AND MAINTENANCE ACCESS.
 RUN FINTUBE ENCLOUSRE FULL LENGTH OF WALL.
 PROVIDE END CAPS TO BASEBOARD ENCLOSURE AT WALL



THIRD FLOOR MECHANICAL PLAN

1/4" = 1'-0"





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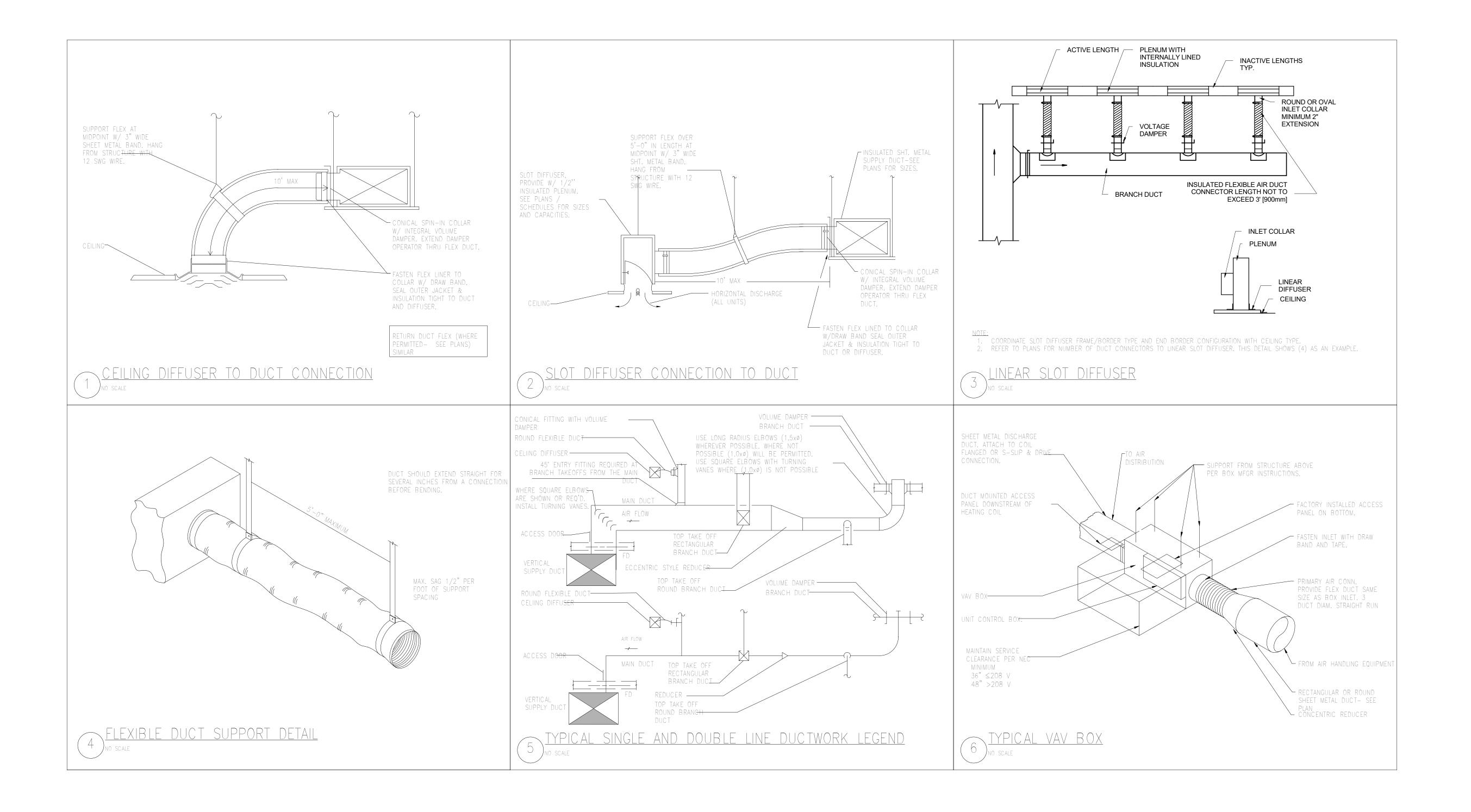
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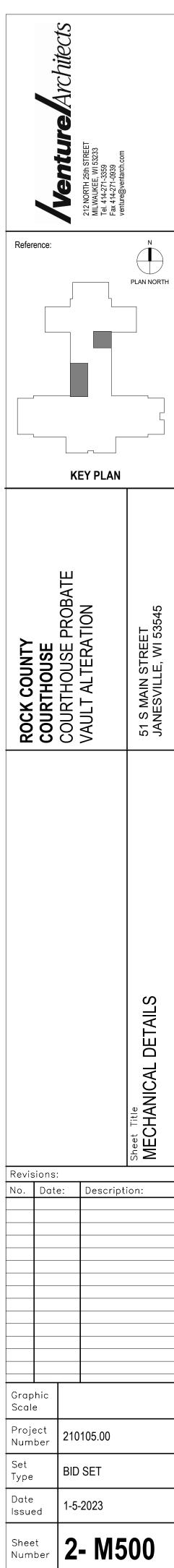
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	DIFFUSER SCHEDULE (SUPPLY)														
MARK NO.	MANUFACTURER	MODEL	TYPE	1	FLOW FM)	PANEL FRAME	NECK SIZE (IN)	MAX APD (IN WG)	PATTERN	MOUNT	FINISH	NC	DAMPER	COMMENTS	
NO.				MIN	MAX	(IN)	SIZE (IIV)	vvG)							
S-1	TITUS	OMNI	PLAQUE FACE	0	235	24 X 24	6	0.10	4-WAY	CEILING	NOTE 2	30	NO	1, 2	
S-2	TITUS	OMNI	PLAQUE FACE	236	400	24 X 24	8	0.10	4-WAY	CEILING	NOTE 2	30	NO	1, 2	
S-3	TITUS	OMNI	PLAQUE FACE	401	550	24 X 24	10	0.10	4-WAY	CEILING	NOTE 2	30	NO	1, 2	
S-4	TITUS	OMNI	PLAQUE FACE	551	780	24 X 24	12	0.10	4-WAY	CEILING	NOTE 2	30	NO	1, 2	

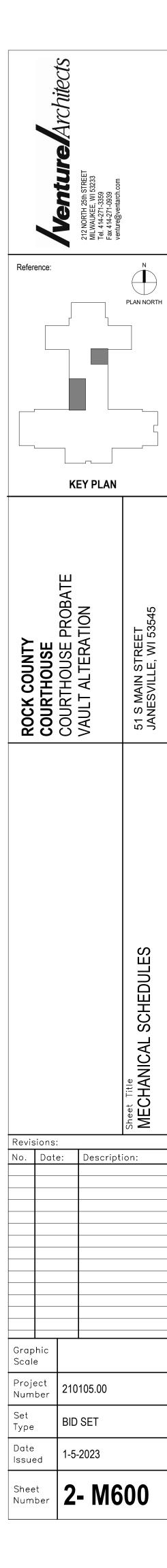
1. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.
2. SEE ARCHITECTURAL DRAWINGS FOR COLOR SELECTION.

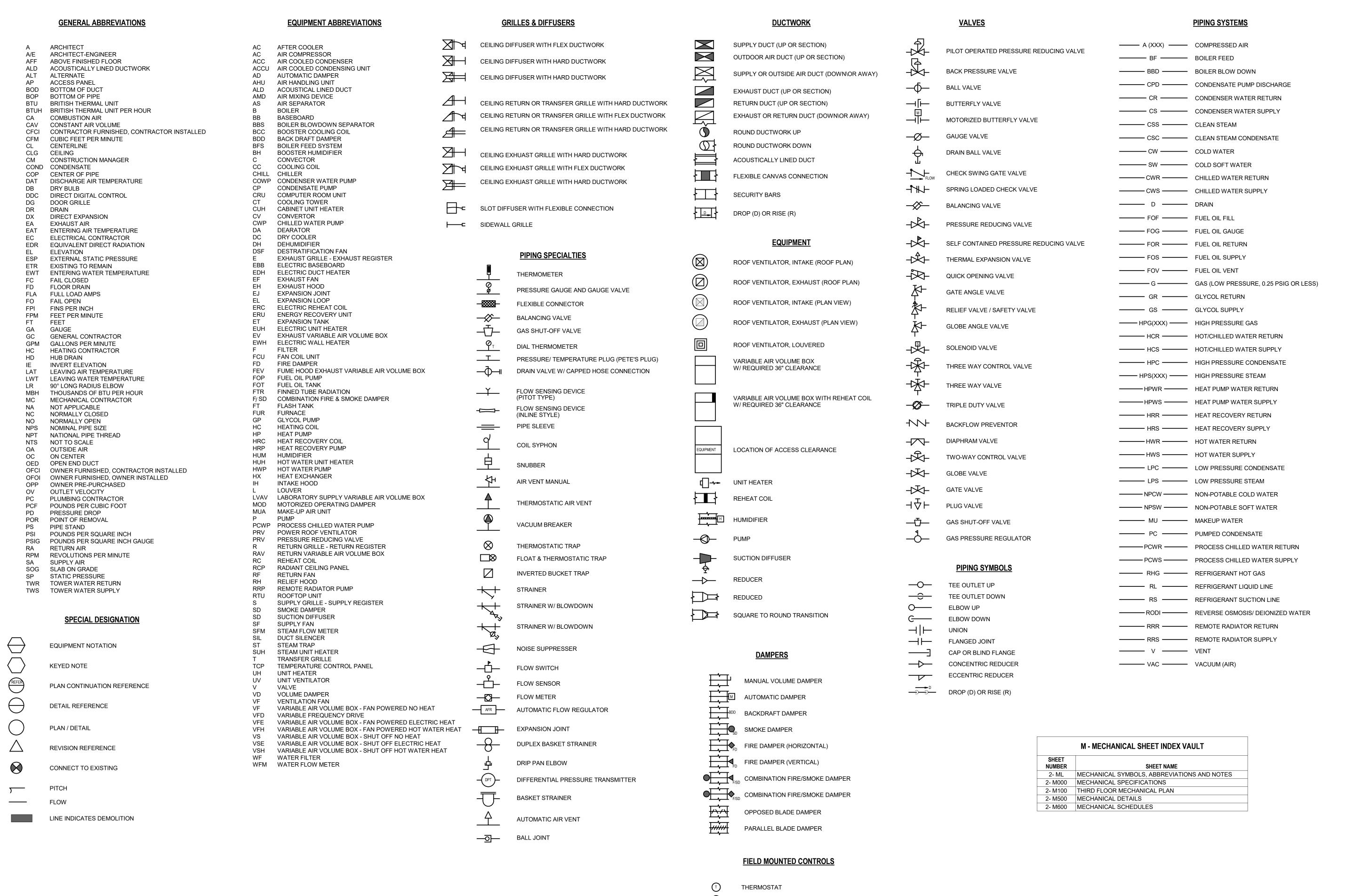
	HOT WATER FINNED PIPE RADIATION SCHEDULE													
PLAN MARK FPR-	SERVES	GPM/FT.	ELEMENT LENGTH (FT.)	CAPACITY (BTU/LF)	ENCLOSURE (H" x D")	TUBE SIZE (IN.)	FINS PER FOOT	E.W.T. (°F)	L.W.T. (°F)	WATER BRANCH PIPING SIZE	MATERIAL	MANUFACTURER	MODEL NO.	COMMENTS
1	THIRD FLOOR	0.055	SEE DWGS	550	8X4	0.75	60	180	160	0.75	SEE ARCH	STERLING	JVK-T	

MARK			AIRF	10///									
MANI	UFACTURER	MODEL	AIRFLOW (CFM)		LENGTH (FT)	NUMBER OF SLOTS	SLOT WIDTH (IN)	PLENUM INLET (IN)	PATTERN	MOUNT	FINISH	NC	COMMENTS
NO.			MIN	MAX	, ,		, ,	, ,					
SD-1	TITUS	FLI-10	NOTE 3		SEE PLAN	1	1.5	SEE PLAN	HORIZONTAL	CEILING	NOTE 2	<30	1, 2, 3
RD-1	TITUS	FL-10	NOTE 3		SEE PLAN	1	1.5	SEE PLAN	HORIZONTAL	CEILING	NOTE 2	<30	1, 2, 3

CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING GRILLES.
 ARCHITECT TO SELECT FINAL COLOR AND FINISH OF SLOT
 SLOT DIFFUSER SIZED FOR 52.5 CFM/FT. SEE
 PLANS FOR ACTIVE SLOT DIFFUSER LENGTH.

	VARIABLE AIR VOLUME BOX WITH HOT WATER REHEAT SCHEDULE																			
PLAN		INILET	INILET	MAX		CFM		HEATING COIL							CONTROL VALVE		DDANCU			
MARK VAV-	RK SERVES DIA.	S.P. DROP (IN. W.G.)	CLG. MAX (CFM)	HTG. MIN. (CFM)	CLG. MIN (CFM)	LOAD (MBH)	E.A.T. (°F)	L.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)	WATER FLOW (GPM)	W.P.D. (FT)	ROWS	2-WAY	3-WAY	BRANCH SIZE (IN)	MANUFACTURER	MODEL	COMMENTS	
1	C271	6	0.4	100	60	60	3	55	95	180	160	0.50	-	1		Х	3/4	PRICE	SVD	
2	C272	8	0.4	625	190	190	8	55	95	180	160	0.82	_	1		Х	3/4	PRICE	SVD	





DUCT MOUNTED THERMOSTAT

ROOM ASPIRATING THERMOSTAT

ROOM HUMIDISTAT

PRESSURE SENSOR

DUCT SMOKE DETECTOR

ROOM SENSOR

SWITCH

ROOM NIGHT SETBACK THERMOSTAT

Remodeling_MEP_Central_K21_Michael.Willems1.rvt

Reference: **KEY PLAN** COUNTY THOUSE THOUSE ROC COU COU Revisions: No. Date: Description: 1 07-07-22 Addendum 1 Graphic Scale Project 210105.00 Number **BID SET** Туре Date

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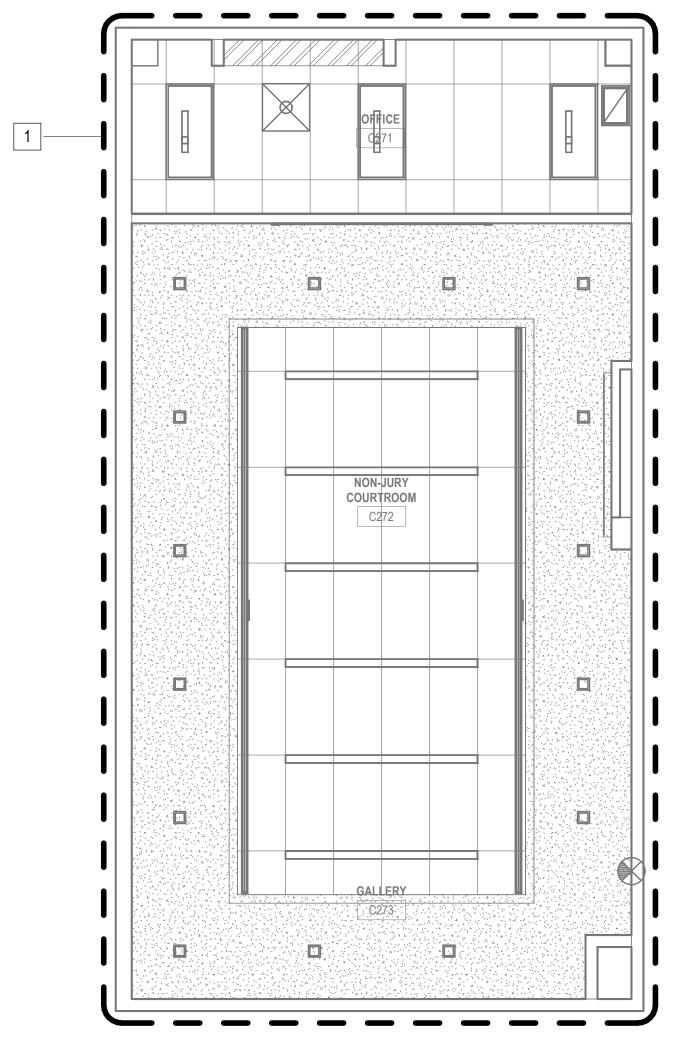
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FIRE PROTECTION GENERAL NOTES:

- 1. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR.
- 2. THE EXACT LOCATION, ELEVATION, AND CONFIGURATION OF SPRINKLER PIPING AND SPRINKLER HEADS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO COMMENCING WORK. THE FIRE PROTECTION CONTRACTOR DOES NOT HAVE PRIORITY.
- 3. ADD ADDITIONAL SPRINKLER HEADS AS REQUIRED BY NFPA 13 TO ACCOMMODATE OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO COLUMNS, DUCTWORK, SOFFITS AND EQUIPMENT. TYPICAL.
- PROVIDE ISOLATION VALVES AS REQUIRED PER NFPA 13, 14. ALL OS&Y VALVES SHALL BE SUPERVISED WITH TAMPER SWITCHES.
- 5. SPRINKLER PIPING SHALL BE BLACK STEEL, TYPE F, ASTM A53. THREADED LIGHT WALL PIPE AND PLASTIC PIPE ARE NOT ACCEPTABLE. SPRINKLER HEADS SHALL MANUFACTURED BY TYCO, RELIABLE, VICTAULIC OR VIKING.
- 6. SPRINKLER HEADS SHALL BE LOCATED WITHIN CENTER OF CEILING TILE.

KEYED FIRE PROTECTION NOTES:

RECONFIGURE EXISTING MAINS, BRANCH LINES AND SPRINKLER HEADS AS REQUIRED TO PROVIDE COMPLETE UNOBSTRUCTED COVERAGE TO ALL AREAS OF NEW ARCHITECTURAL ROOM LAYOUT. PROVIDE ADDITIONAL NEW HEADS AS REQUIRED. SPRINKLER HEADS SHALL BE SEMI RECESSED PENDANTS IN AREAS WITH CEILINGS AND UPRIGHT PENDANTS IN AREAS WITH NO CEILINGS. PROVIDE SPRINKLER HEADS ABOVE AND BELOW ANY AREAS WITH CLOUD TYPE CEILINGS. COORDINATE SPRINKLER HEAD LOCATIONS WITH LIGHTS AND DIFFUSERS. SPRINKLER HEADS DO NOT HAVE PRIORITY. INSTALL BRANCH PIPING AS HIGH AS POSSIBLE IN AREAS WITH NO CEILINGS.



THIRD FLOOR FIRE PROTECTION PLAN

1/4" = 1'-0"

Reference: **KEY PLAN** 51 S MAIN STREET JANESVILLE, WI 5354! Sheet Title
THIRD FLOOR FIRE PROTECTION PLAN No. Date: Description: Graphic Scale 210105.00 Number Issued Sheet 2 - F100

CABLE LEGEND LEGEND Detention Grade Lock Wire Coloring - (White) AC Neutral or DC Common, (Black) AC Line or DC Positive, (Green) Ground, (Yellow) Unlock or Open, (Pink) Lock or Close, (Brown) Ind. Voltage, (Blue) Secure, (Red) Unsecure, (Orange) Auxiliary 1 In/Out, (Violet) Auxiliary 2 In/Out, (Gray) Auxiliary Common DESCRIPTION MFG. & PART NUMBER SHEET LABEL WINDY CITY WIRE AWG TFFN GREEN - WHITE - BLACK - RED - BROWN - BLUE - YELLOW - ORANGE - GREEN: 031206 - WHITE: 0312010 - BLACK: 0312011 - RED: 031201 -BROWN: 0312012 - BLUE: 031209 - YELLOW: 031203 - ORANGE: 031204 -PINK - VIOLET - GRAY PINK: 031208 - VIOLET: 031205 - GRAY: 031207 14 AWG TFFN GREEN - WHITE - BLACK - RED - BROWN - BLUE - YELLOW - ORANGE - | GREEN: 031406 - WHITE: 0314010 - BLACK: 0314011 - RED: 031401 -PINK - VIOLET - GRAY BROWN: 0314012 - BLUE: 031409 - YELLOW: 031403 - ORANGE: 031404 -PINK: 031408 - VIOLET: 031405 - GRAY: 031407 GREEN - WHITE - BLACK - RED - BROWN - BLUE - YELLOW - ORANGE - GREEN: 031106 - WHITE: 0311010 - BLACK: 0311011 - RED: 031101 -PINK - VIOLET - GRAY BLUE: 031109 - YELLOW: 031103 - ORANGE: 031104 - GRAY: 031107 WINDY CITY WIRE GREEN - WHITE - BLACK - RED - BROWN - BLUE - YELLOW - ORANGE - | GREEN: 031806 - WHITE: 0318010 - BLACK: 0318011 - RED: 031801 -PINK - VIOLET - GRAY BROWN: 0318012 - BLUE: 031809 - YELLOW: 031803 - ORANGE: 031804 -PINK: 031808 - VIOLET: 031805 - GRAY: 031807 E5-P: 100BASE-T - PLENUM E5: 100BASE-T - NON-PLENUM E5e-P: 5556160 (GREEN JACKET) E5e-P: 1000BASE-T - PLENUM E5e: 86656160 (GREEN JACKET) E5e: 1000BASE-T - NON-PLENUM E6-P: 5566060 (GREEN JACKET) E6-P: 1000BASE-TX - PLENUM E6: 7756060 (GREEN JACKET) E6: 1000BASE-TX - NON-PLENUM E6a-P: 556600 (BLACK JACKET) E6a-P: 10GBASE - PLENUM E6a: 7756600A (BLACK JACKET) E6a: 10GBASE - NON-PLENUM E7-P: 9557619 (BLUE JACKET) E7-P: 10GBASE - PLENUM WINDY CITY WIRE F-P: 14AWG - 2C - NON-SHIELDED - PLENUM F-P: 447960 F: 14AWG - 2C - NON-SHIELDED - NON-PLENUM F: 429100 F-SP: 14AWG - 2C - SHIELDED - PLENUM F-SP: 447920BR F-S: 14AWG - 2C - SHIELDED - NON-PLENUM F-S: 4121020 WINDY CITY WIRE **G-P**: 16AWG - 2C - NON-SHIELDED - PLENUM G-P: 441360BR G: 16AWG - 2C - NON-SHIELDED - NON-PLENUM G: 428100BR G-SP: 16AWG - 2C - SHIELDED - PLENUM G-SP: 441320BR G-S: 16AWG - 2C - SHIELDED - NON-PLENUM G-S: 4131020 WINDY CITY WIRE H-P: 18AWG - 2C - NON-SHIELDED - PLENUM H-P: 442360BR H: 18AWG - 2C - NON-SHIELDED - NON-PLENUM H: 427100BR H-SP: 18AWG - 2C - SHIELDED - PLENUM H-SP: 442320BR H-S: 18AWG - 2C - SHIELDED - NON-PLENUM H-S: 414100BR WINDY CITY WIRE J-P: 20AWG - 2C - NON-SHIELDED - PLENUM J-P: 442360 J: 20AWG - 2C - NON-SHIELDED - NON-PLENUM J: 426100BR J-SP: 20AWG - 2C - SHIELDED - PLENUM J-SP: 443320BR J-S: 20AWG - 2C - SHIELDED - NON-PLENUM J-S: 415100BR WINDY CITY WIRE K-P: 22AWG - 2C - NON-SHIELDED - PLENUM K-P: 444360 K: 22AWG - 2C - NON-SHIELDED - NON-PLENUM K: 425100 K-SP: 22AWG - 2C - SHIELDED - PLENUM K-SP: 444320BR K-S: 22AWG - 2C - SHIELDED - NON-PLENUM K-S: 416100BR WINDY CITY WIRE 22AWG - 8C - NON-SHIELDED - NON-PLENUM WINDY CITY WIRE M-P: 22AWG - 4C w/2C SHIELDED & 2C NON-SHIELDED - PLENUM M-P: 2550070 M: 22AWG - 4C w/2C SHIELDED & 2C NON-SHIELDED - NON-PLENUM WEST PENN #352 22AWG - 3C w/ 2C SHIELDED & 1C NON-SHIELDED - NON-PLENUM OR EQUIVALENT WINDY CITY WIRE P-P: 18AWG - 6C - NON-SHIELDED - PLENUM P-P: 442391 P: 18AWG - 6C - NON-SHIELDED - NON-PLENUM P: 427400 P-SP: 18AWG - 6C - SHIELDED - PLENUM P-SP: 442351 P-S: 18AWG - 6C - SHIELDED - NON-PLENUM P-S: 414400 WINDY CITY WIRE R-P: 22AWG - 6C - NON-SHIELDED - PLENUM R-P: 444391 R: 22AWG - 6C - NON-SHIELDED - NON-PLENUM R: 425400 R-SP: 22AWG - 6C - SHIELDED - PLENUM R-SP: 444351 R-S: 22AWG - 6C - SHIELDED - NON-PLENUM R-S: 416400 WEST PENN #815 RG-59 COAX (CCTV) OR EQUIVALENT RG-6 COAX (CCTV/MATV) OR EQUIVALENT GENERAL CABLE #2133033 OR EQUIVALENT 24AWG - 25-PAIR - CAT-3 (TELCO/PLC) BELDEN ΤK DEVICE NET THICK #3082A BELDEN TN DEVICE NET THIN #3084A WINDY CITY WIRE COMPOSITE CABLE PLENUM: 4461030 E1: 18AWG - 4C - PURPLE STRIPE NON-PLENUM: 4461140 E2: 22AWG - 3-PAIR - YELLOW STRIPE E3: 22AWG - 2C - GREEN STRIPE E4: 22AWG - 4C - RED STRIPE F01 OM1 MULTIMODE FIBER OPTIC STRAND * = NUMBER OF STRANDS

HITACHI 61347-*

HITACHI 61348-*

HITACHI 61893-*

HITACHI 61349-*

* = NUMBER OF STRANDS

FO2

FO₃

OM2 MULTIMODE FIBER OPTIC STRAND

OM3 MULTIMODE FIBER OPTIC STRAND

OM4 MULTIMODE FIBER OPTIC STRAND

OM5 SINGLE MODE FIBER OPTIC STRAND

SYMBOL	NETWORK SYMBOL LEGEND SYMBOL DESCRIPTION
S-PORT SWITCH X	8-Port Network Switch - X indicates Switch name. See Device Schedule for additional information.
SWITCH X	24-Port Network Switch - X indicates Switch name. See Device Schedule for additional information.
\$\frac{48-PORT}{SWITCH}\$\$ X	48-Port Network Switch - X indicates Switch name. See Device Schedule for additional information.
6-PORT FIBER PATCH PANEL X	6-Port Fiber Patch Panel - X indicates Panel name. See Device Schedule for additional information.
12-PORT FIBER PATCH PANEL	12-Port Fiber Patch Panel - X indicates Panel name. See Device Schedule for additional information.
24-PORT FIBER PATCH PANEL	24-Port Fiber Patch Panel - X indicates Panel name. See Device Schedule for additional information.
48-PORT FIBER PATCH PANEL.	48-Port Fiber Patch Panel - X indicates Panel name. See Device Schedule for additional information.
24-PORT COPPER PATCH PANEL X	24-Port Copper Patch Panel - X indicates Panel name. See Device Schedule for additional information.
48-PORT COPPER PATCH PANEL X	48-Port Copper Patch Panel - X indicates Panel name. See Device Schedule for additional information.
#	GPS Network Time Server - # indicates Server Architectural or System number. See Device Schedule for additional information.
#	GPS Network Time Server Antenna - # indicates Antenna's allocated server number. See Device Schedule for additional information.
	Network Wireless Access Point - # indicates WAP Architectural or System number. See Device Schedule for additional information.
(6)	Network Wireless Bridge - # indicates Bridge Architectural or System number. See Device Schedule for additional information.

	SERVER & WORKSTATION EQUIPMENT SYMBOL LEGEND								
SYMBOL	SYMBOL DESCRIPTION								
V S T T S S S S S S S S S S S S S S S S	VMS Workstation - X indicates Workstation name. See Device Schedule for additional information.								
	HMI Workstation - X indicates Workstation name. See Device Schedule for additional information.								
A 8 C S T S T S T S T S T S T S T S T S T S	Access Control Workstation - X indicates Workstation name. See Device Schedule for additional information.								
, , , , , , , , , , , , , , , , , , ,	Audio Workstation - X indicates Workstation name. See Device Schedule for additional information.								
VMS SHEVER X	VMS Server - X indicates Server name. See Device Schedule for additional information.								
HMI SEEVER X	HMI Server - X indicates Server name. See Device Schedule for additional information.								
ACCESS SERVER X	Access Control Server - X indicates Server name. See Device Schedule for additional information.								
AUDBO SHEVER X	Audio Server - X indicates Server name. See Device Schedule for additional information.								
X # SIZE	Workstation or Server Monitor - X indicates Monitor function, # indicates Monitor name and SIZE indicates the Monitor size. See Device Schedule for additional information.								
<u> </u>	User Orientation - Depicts the orientation of the user at a workstation or server.								

CABINET & RACK SYMBOL LEGEND									
SYMBOL	SYMBOL DESCRIPTION								
WALL CABINET X	Wall Mounted Cabinet - X indicates Cabinet name. See Device Schedule for additional information.								
CARD ACCESS X	Card Access Cabinet - X indicates Cabinet name. See Device Schedule for additional information.								
WALL RACK X	Wall Mounted Rack - X indicates Rack name. See Device Schedule for additional information.								
2-POST RACK X	2-Post Rack - X indicates Rack name. See Device Schedule for additional information.								
WALL RACK X	4-Post Rack - X indicates Rack name. See Device Schedule for additional information.								

	POWER SYMBOL LEGEND
SYMBOL	SYMBOL Description
ELEC. BREAKER X	Electrical Breaker Panel - X indicates Panel name. See Device Schedule for additional information.
UPS BREAKER X	UPS Breaker Panel - X indicates Panel name. See Device Schedule for additional information.
UPS EQUIP. X	UPS Equipment - X indicates UPS Equipment name. See Device Schedule for additional information.

	DOOR SYMBOL LEGEND
SYMBOL	SYMBOL DESCRIPTION
TYPE X #	Electric Lock - DC or AC motorized, solenoid or magnetic lock. TYPE indicates the lock type. In the place of X, an E indicates electrified motor, a P indicates a pneumatic solenoid. # indicates the door lock Architectural or System number. Assumes a Lock Position Switch unless otherwise noted. See Device Schedule for additional information.
DPS #	Door Position Switch - Movement door monitoring switch. # indicates the door position switch Architectural or System number. See Device Schedule for additional information.
(ED	Free Egress - Door with Exit Device that allows free egress through the opening from the direction of the arrow. See Device Schedule for additional information.
IG #	Interlock Group - Depicts a group of doors controlled by an Interlock Group. # indicates Interlock Group System number. See Device Schedule for additional information.

	DURESS (PANIC) SYMBOL LEGEND									
SYMBOL	SYMBOL DESCRIPTION									
$(((\mathbf{Rx})))$	Wireless Duress Receiver - # indicates Receiver Architectural or System number. See Device Schedule for additional information.									
A ⊗ W	Wall Mounted Panic Push Button - # indicates Push Button Architectural, System or Device allocated number. See Device Schedule for additional information.									
P S F S S S S S S S S S S S S S S S S S	Frame Mounted Panic Push Button - # indicates Push Button Architectural, System or Device allocated number. See Device Schedule for additional information.									
P D D	Desk Mounted Panic Push Button - # indicates Push Button Architectural, System or Device allocated number. See Device Schedule for additional information.									

SYMBOL	ACCESS CONTROL SYMBOL LEGEND SYMBOL DESCRIPTION								
OTWIDOL	DESCRIPTION Wall Mounted Card Reader - # indicates Reader Architectural, System or Device allocated number. See Device								
C _f	Schedule for additional information.								
F	Frame Mounted Card Reader - # indicates Reader Architectural, System or Device allocated number. See Device								
CR #	Schedule for additional information.								
D	Desk Mounted Card Reader - # indicates Reader Architectural, System or Device allocated number. See Device								
CR #	Schedule for additional information.								
I ∠D ^W	Wall Mounted Keypad Reader - # indicates Reader Architectural, System or Device allocated number. See Dev								
KR #	Schedule for additional information.								
∠ D ^F	Frame Mounted Keypad Reader - # indicates Reader Architectural, System or Device allocated number. See D								
KR #	Schedule for additional information.								
V D [□]	Desk Mounted Keypad Reader - # indicates Reader Architectural, System or Device allocated number. See Device allocated number.								
KR #	Schedule for additional information.								
DD ^w	Wall Mounted Biometric Reader - # indicates Reader Architectural, System or Device allocated number. See De								
BR #	Schedule for additional information.								
DD ^F	Frame Mounted Biometric Reader - # indicates Reader Architectural, System or Device allocated number. See								
BR #	Schedule for additional information.								
	Desk Mounted Biometric Reader - # indicates Reader Architectural, System or Device allocated number. See D								
BR #	Schedule for additional information.								
o D ^W	Wall Mounted Smart Reader - # indicates Reader Architectural, System or Device allocated number. See Device								
SR #	Schedule for additional information.								
an F	Frame Mounted Smart Reader - # indicates Reader Architectural, System or Device allocated number. See Dev								
SR #	Schedule for additional information.								
	Desk Mounted Smart Reader - # indicates Reader Architectural, System or Device allocated number. See Device								
SR #	Schedule for additional information.								
CTE	Allegion CTE Controller - Single door controller with multi-technology reader. # indicates Controller Architectur								
	System number. See Device Schedule for additional information.								
NDE	Allegion NDE Wireless Lock - Standalone mobile enhanced wireless cylindrical lock. # indicates Lock Architecture								
Q	System number. See Device Schedule for additional information.								
SI	Allegion Smart Interconnect - Lock with Engage technology. # indicates Lock Architectural or System number.								
#	Device Schedule for additional information.								
SD	Allegion Smart Interconnect - Deadbolt with Engage technology. # indicates Deadbolt Architectural or System								
A	number. See Device Schedule for additional information.								
	Electronic Key Switch - # indicates Key Switch Architectural, System or Device allocated number. See Device								
	Schedule for additional information.								
	Loop Detector - # indicates Detector Architectural, System or Device allocated number. See Device Schedule								
LD	additional information.								
	Motion Detector - # indicates Detector Architectural, System or Device allocated number. See Device Schedul								
DE	additional information.								
R W	Wall Mounted Request to Exit Push Button - # indicates Push Button Architectural, System or Device allocated								
ž [⊚]	number. See Device Schedule for additional information.								
₽ F	Frame Mounted Request to Exit Push Button - # indicates Push Button Architectural, System or Device allocate								
x ⊗ #	number. See Device Schedule for additional information.								
R D	Desk Mounted Request to Exit Push Button - # indicates Push Button Architectural, System or Device allocated								
× 💿	number. See Device Schedule for additional information.								
#									

VIDEO SYMBOL LEGEND

Camera Mount Abbreviations - (CS) Ceiling Surface, (CR) Ceiling Recessed, (WM) Wall Mount, (WS) Wall Surface, (WR) Wall Recessed, (ECN) Exterior Corner Mount, (ICN) Interior

SYMBOL	SYMBOL DESCRIPTION
	Fixed IP Camera - # indicates Camera logical number. X indicates Camera mounting information. See Device
\bigcirc 1	Schedule for additional information.
(# X X	
\bigvee	
_	
X	2-Sensor Multi-head IP Camera - # indicates Camera logical number. X indicates Camera mounting information. See
, ^	Device Schedule for additional information.
\forall # \forall	bevice ocheque for additional information.
$\mathcal{N}^{"}\mathcal{N}$	
	2 Capac Multi haad ID Capaca Hindicata Capaca legical number. Vindicata Capaca mounting information Cap
\searrow	3-Sensor Multi-head IP Camera - # indicates Camera logical number. X indicates Camera mounting information. Sec
v (" \	Device Schedule for additional information.
X (#)	
\times '	
-	
$\bigvee X$	4-Sensor Multi-head IP Camera - # indicates Camera logical number. X indicates Camera mounting information. Se
	Device Schedule for additional information.
X # X	
\sim	
<	Pan-Tilt-Zoom (PTZ) IP Camera - # indicates Camera logical number. X indicates Camera mounting information. Se
\bigcirc 1	Device Schedule for additional information.
(# X X	
\bigvee	(
</td <td></td>	
_	180-Degree Fisheye IP Camera - # indicates Camera logical number. X indicates Camera mounting information. Se
	Device Schedule for additional information.
(#) × X	Device Scriedule for additional information.
\ " / A A	
	360-Degree Fisheye IP Camera - # indicates Camera logical number. X indicates Camera mounting information. Se
X	Device Schedule for additional information.
(("))	Device Scriedule for additional information.
((#))	
	Fixed Angles Company # indicates Company legical number, Vindicates Company requesting information, Co. Devices
	Fixed Analog Camera - # indicates Camera logical number. X indicates Camera mounting information. See Device
	Schedule for additional information.
#	
X^	
^	
	Fixed IP Camera - # indicates Encoder Architectural or System name. See Device Schedule for additional information
DIGITAL	
#	
ANALOG	
	HiPoE Injector - # indicates Injector Architectural, System or Device allocated number. See Device Schedule for
	additional information.
HiPoE	
#	
	VMS Keypad - See Device Schedule for additional information.
	The state of the s
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	Surge Suppression Device - See Device Schedule for additional information.
	Todayo ouppression period a oce period our dual or additional information.
SURGE PROTECTION out	
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		INTRUSION & FIRE SYMBOL LEGEND
S	YMBOL	SYMBOL DESCRIPTION
	(Co)	Fire Alarm - # indicates Alarm Architectural, System or Zone number. See Device Schedule for additional information
	7 7 1	Fire Strobe Light - # indicates Strobe Architectural, System or Zone number. See Device Schedule for additional information.
	K D	Intrusion Keypad - # indicates Keypad Architectural or System number. See Device Schedule for additional information.

SYMBOL	AUDIO SYMBOL LEGEND SYMBOL DESCRIPTION
	Audio Master Station - Analog or IP. See Device Schedule for additional information.
	Gooseneck Touchscreen Master Station - Analog or IP. See Device Schedule for additional information.
لما الما	
<u> </u>	Flush Touchscreen Master Station - Aanalog or IP. See Device Schedule for additional information.
	Literature Obstice Windington IC Applications of a Contraction of the
IC	Intercom Station - # indicates IC Architectural or System number. See Device Schedule for additional information
#W	Wall Mounted Intercom Station - # indicates IC Architectural or System number. See Device Schedule for addition
IC"	information.
IC ^f	Frame Mounted Intercom Station - # indicates IC Architectural or System number. See Device Schedule for additional control of the second of th
	information.
IC [†]	Handset Intercom Station - # indicates IC Architectural or System number. See Device Schedule for additional
#	information.
MIC	IP Master Intercom Station - # indicates IC Architectural or System number. See Device Schedule for additional information.
M 1 W	
IC W	Wall Mounted IP Master Intercom Station - # indicates IC Architectural or System number. See Device Schedule additional information.
#	
IC	Frame Mounted IP Master Intercom Station - # indicates IC Architectural or System number. See Device Scheduli additional information.
#	IP Slave Intercom Station - # indicates IC Architectural or System number. See Device Schedule for additional
	information.
#	Wall Mounted IP Slave Intercom Station - # indicates IC Architectural or System number. See Device Schedule for
s I C	additional information.
	Frame Mounted IP Slave Intercom Station - # indicates IC Architectural or System number. See Device Schedule
	additional information.
FIC.	Hands Free Intercom Station - Standalone hands free intercom station (inside). # indicates IC Architectural or Sys
FIC	number. See Device Schedule for additional information.
FIC°	Hands Free Intercom Station - Standalone hands free intercom station (outside). # indicates IC Architectural or System number. See Device Schedule for additional information.
#	
	Overhead Speaker - Intercom or paging speaker. # indicates Speaker Architectural, System or Page Zone numb See Device Schedule for additional information.
#	Overhead Speaker - Intercom or paging speaker. # indicates Architectural, System or Page Zone number. See
SM	Device Schedule for additional information.
# TM	Overhead Sound Monitor Speaker - Intercom or paging speaker with sound monitoring function. # indicates Spea
	Architectural, System or Page Zone number. See Device Schedule for additional information.
	Ceiling Mounted External Microphone - # indicates Microphone Architectural, System or Device allocated number
(#)	See Device Schedule for additional information.
w	Wall Mounted External Microphone - # indicates Microphone Architectural, System or Device allocated number. S
(#)	Device Schedule for additional information.
MUTE	Wall Mounted External Microphone Mute Switch - # indicates Switch Architectural, System or Device allocated number. See Device Schedule for additional information.
#	
MUTE	Frame Mounted External Microphone Mute Switch - # indicates Switch Architectural, System or Device allocated number. See Device Schedule for additional information.
#	
MUTE	Desk Mounted External Microphone Mute Switch - # indicates Switch Architectural, System or Device allocated number. See Device Schedule for additional information.
#	Wall Mounted Call Rutton - # indicates Duch Rutton Architectural System or Davise allegated number See Davis
L W	Wall Mounted Call Button - # indicates Push Button Architectural, System or Device allocated number. See Devic Schedule for additional information.
# F	Frame Mounted Call Push Button - # indicates Push Button Architectural, System or Device allocated number. Se
	Device Schedule for additional information.
L O	
L ⊗ L #	Desk Mounted Call Push Button - # indicates Push Button Architectural, System or Device allocated number. See

	UTILITY SYMBOL LEGEND SYMBOL
SYMBOL	DESCRIPTION
#	Light - # indicates Light Architectural or System number. See Device Schedule for additional information.
D #	Day Light -# indicates Light Architectural or System number. See Device Schedule for additional information.
N #	Night Light - # indicates Light Architectural or System number. See Device Schedule for additional information.
(I)	Power Receptacle - # indicates Receptacle Architectural or System number. See Device Schedule for additional information.
TV #	TV Power Receptacle - # indicates Receptacle Architectural or System number. See Device Schedule for additional information.
#	Water Valve - # indicates Valve Architectural or System number. See Device Schedule for additional information.
P M N M M M M M M M M M M M M M M M M M	Inmate Phone - # indicates Phone Architectural or System number. See Device Schedule for additional information.
#	Window Louvre - # indicates Louvre Architectural or System number. See Device Schedule for additional information.
C _* D	Visitation Handset - # indicates Handset Architectural or System number. See Device Schedule for additional information.

Reference:		Wednesdav. July 76, 2022 12:40:39 PM
COUNTY FHOUSE COUNTY FACILITIES	EY PLAN	51 S MAIN STREET JANESVILLE, WI 53545 Wednesday, July 6, 2022 11:42:05 AM
Revisions:		Sheet Title CABLE AND SYMBOL
Revisions: No. Date:	Description	ds
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