DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL RENOVATIONS

417 East Helena St. Dayton, Ohio 45404

ARCHITECT

App Architecture

615 Woodside Drive
Englewood, Ohio 45322
(937) 836-8898

MECHANICAL & ELECTRICAL ENGINEERS

Nauman & Zelinski, LLC

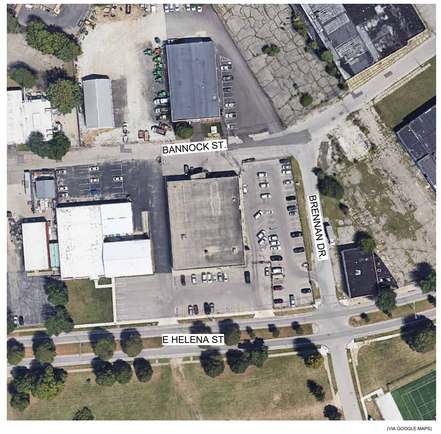
204 South Ludlow Street, Suite 400
Dayton, Ohio 45402
(937) 223-3821

STRUCTURAL ENGINEER

L2 Engineering, LLC

7949 Washington Woods Dr,
Dayton, OH 45459
(937) 361-6731

VICINITY MAP



(VIA GOOGLE MAPS)

CODE INFORMATION (OBC 2024)

PROJECT DESCRIPTION

PROJECT CONSISTS OF RENOVATION OF AN EXISTING POLICE STATION FOR THE CITY OF DAYTON 1st DISTRICT EAST PATROL DISTRICT USING THE PRESCRIPTIVE COMPLIANCE METHOD AS DESCRIBED IN CHAPTER 5 OF THE OEBC (2024).

USE GROUP CLASSIFICATION

OBC (302) USE GROUP = B: BUSINESS - POLICE DEPARTMENT, FORENSICS LAB (NO CHANGE)
= S-2: STORAGE - VEHICLE BAY (NO CHANGE)

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE = IIB

BUILDING DESCRIPTION = CONCRETE SLAB, PARTIAL BASEMENT, STEEL COLUMNS, MASONRY BLOCK WALLS, STEEL BAR JOISTS AND METAL DECK.

HEIGHT AND AREA LIMITATIONS

OBC (503) BUILDING AREA AND HEIGHT ALLOWABLE = B - 3 STORIES/ 23,000 SF - STORY
= S-2 - 3 STORIES/ 26,000 SF - STORY

BUILDING DESCRIPTION: ONE STORY (NO CHANGE)
B = 14,220 SF
S-2 = 3,250 SF
TOTAL = 17,470 SF (NO CHANGE)

OCCUPANT LOAD

OBC (1004) ALLOWABLE: S.F. PER OCCUPANT
B= 14,220 SF/150 = 94 OCCUPANTS ALLOWABLE
S-2= 3,250/200 = 16 OCCUPANTS ALLOWABLE

DECLARED OCCUPANT LOAD:

B = 22 OCCUPANTS DECLARED
S-2= 0 OCCUPANTS DECLARED
TOTAL= 22 OCCUPANTS DECLARED (NO CHANGE)

PLUMBING FIXTURES REQUIRED

OBC (2902)

		WC	LAVS	SHOWERS	DF	SERVICE SINK
REQUIRED	B:	1	1	0	1	1
	S-2:	1	1	0	1	1
TOTAL		2	2	0	2	1 -MOST RESTRICTIVE
PROPOSED		8	14	2	1*	2

*OPC 2024 SECTION 410.4 POTABLE DRINKING WATER WILL BE AVAILABLE IN THE BREAK ROOM AS A SUBSTITUTION FOR ONE REQUIRED DRINKING FOUNTAIN.

FIRE PROTECTION

BUILDING DESCRIPTION : NON-SPRINKLERED

FIRE ALARM SYSTEM PROVIDED THROUGHOUT

STORM SHELTER PROVISIONS

PER OEBC (2024) 503.19: IN AREAS WHERE THE WIND SPEED FOR TORNADOS IS 250 MPH AS DETERMINED BY FIGURE 304.2(1) OF ICC 500 AND THERE IS NO CHANGE OF OCCUPANCY, STORM SHELTERS ARE NOT REQUIRED FOR AN ALTERATION TO EXISTING 911 CALL STATIONS, EMERGENCY OPERATION CENTERS, OR FIRE, EMERGENCY MEDICAL SERVICE, AND POLICE STATIONS.

- WIND SPEED IN AREA PER ICC 500 (2020) FIGURE 304.2(1) IS 250 MPH.
- THERE IS NO CHANGE IN OCCUPANCY.

A STORM SHELTER IS NOT REQUIRED AND NOT PROVIDED.

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G0.2 ARCHITECTURAL SITE PLAN
G0.3 WATER DETAILS
G0.4 SPECIFICATIONS
G0.5 SPECIFICATIONS

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A0.2 FINISH SCHEDULES
A0.3 DOOR SCHEDULES
A0.4 WALL TYPES AND INTERIOR DETAILS
A0.5 WINDOW SCHEDULE AND DETAILS
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E3.1 FIRST FLOOR POWER PLAN
E4.1 FIRST FLOOR SYSTEM PLAN

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STATE OF OHIO
TIMOTHY J. BEMENT
12305
REGISTERED ARCHITECT

Timothy J. Bement, License #12305
Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
JOB NO.	4209.00
DRAWN	MLG
CHECKED	RFW/TJB

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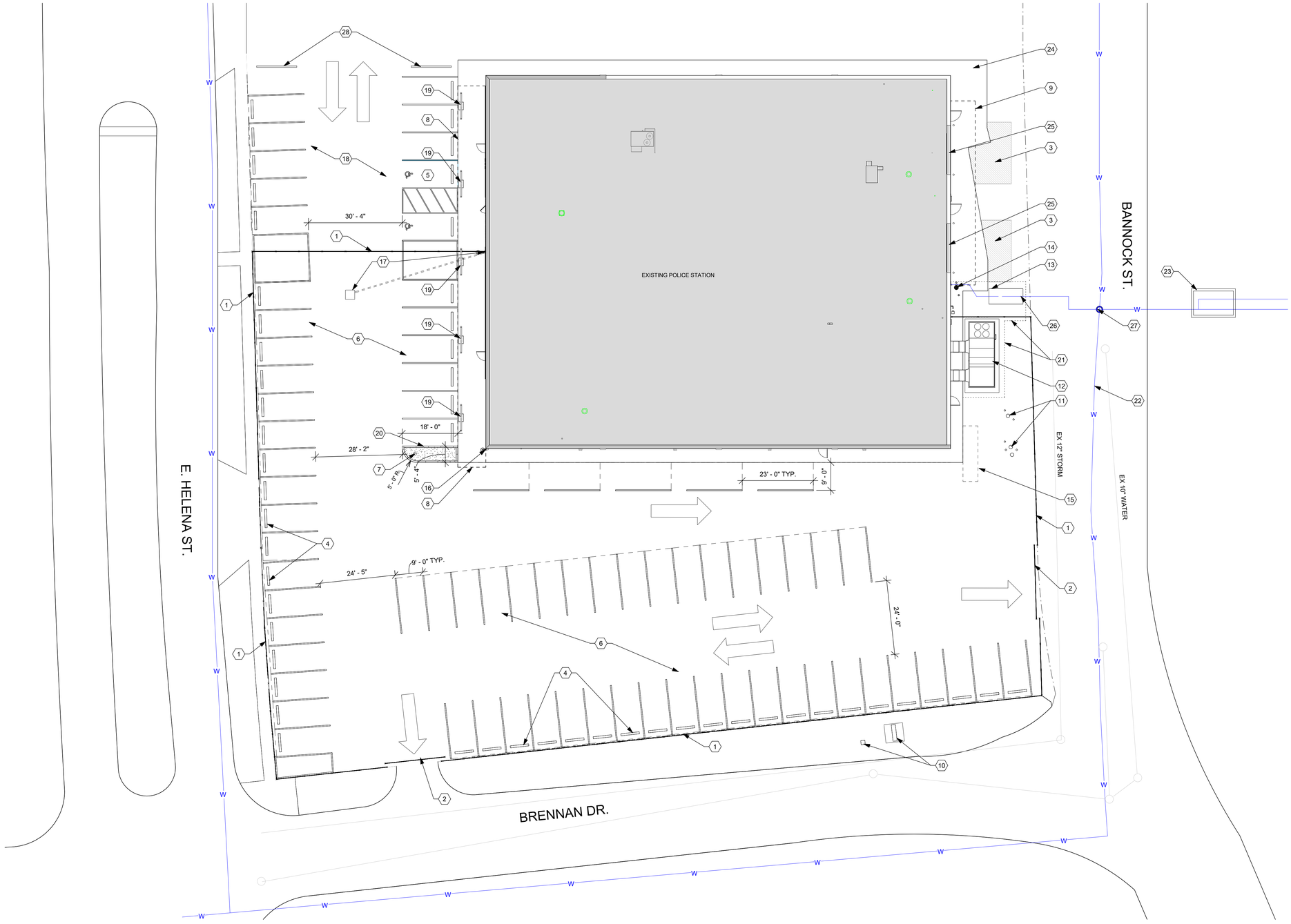
TITLE
COVER SHEET

SHEET NO.
G0.1

11/19/2025 1:44:39 PM



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

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 6'-0" TALL SECURITY FENCE. REFER TO E2/A5.1.

2 SLIDING SECURITY GATE. REFER TO F2/A5.1. COORDINATE ENTRANCE SYSTEM WITH OWNER.

3 MODIFY EXISTING ASPHALT RAMP TO EXTEND 3'-0" BEYOND NEW DOOR OPENING. SLOPE TO PARKING LOT. RESEAL.

4 REMOVE AND REINSTALL EXISTING CONCRETE WHEEL STOPS.

5 VAN ACCESSIBLE PARKING. REFER TO G0.5 FOR ACCESSIBLE PARKING INFORMATION.

6 SECURED PARKING FOR (66) POLICE VEHICLES. PER THE LISTED EXCEPTION IN OBC 2024 SECTION 1106.2; "(REQUIREMENT FOR ACCESSIBLE PARKING SPACES) DOES NOT APPLY TO PARKING SPACES USED EXCLUSIVELY FOR BUSES, OTHER DELIVERY VEHICLES, LAW ENFORCEMENT VEHICLES OR VEHICULAR IMPOUND AND MOTOR POOLS WHERE LOTS ACCESSED BY THE PUBLIC ARE PROVIDED WITH AN ACCESSIBLE PASSENGER LOADING ZONE."

7 RELOCATED FLAGPOLE.

8 ALUMINUM METAL PANEL OVERHANG. REFER TO F5/A4.1 FOR DETAILS.

9 CABLE TENSION CANOPY ABOVE. REFER TO F2/A4.1 FOR DETAILS.

10 EXISTING UTILITIES AND BOLLARDS.

11 EXISTING UTILITY POLES WITH EXISTING IMPACT PROTECTION BOLLARDS.

12 GRADE MOUNTED ROOF TOP UNIT AND PAD. REFER TO MECHANICAL DRAWINGS.

13 3" METER PIT PER CITY OF DAYTON STANDARD DRAWING D-20. REFER TO SHEET G0.3 FOR DETAILS.

14 OIL INTERCEPTOR. REFER TO PLUMBING DRAWINGS.

15 EMERGENCY GENERATOR AND PAD LOCATION - ALT. E.1.

16 NEW 4" DIA. ALUMINUM DOWNSPOUT FROM CANOPY TO TIE INTO EXISTING STORM LINE.

17 NEW 4" DIA. ALUMINUM DOWNSPOUT AND BLACK PLASTIC ADAPTOR. INSTALL 6" PVC STORM LINE @ 2% AND TIE INTO EXISTING CATCH BASIN.TRENCH SHALL BE A MINIMUM OF 3' AND CONCRETE WALK AROUND THE BUILDING MUST BE REPAIRED JOINT OT JOINT. ALL EDGES OF ASPHALT TRENCH MUST BE SEALED. REPAIR ASPHALT PAVING PRIOR TO RESEALING PARKING LOT - FIELD VERIFY. REFER TO SHEETS G0.4 AND G0.4 FOR ADDITIONAL INFORMATION.

18 (10) PUBLIC PARKING INCLUDING 2 ACCESSIBLE PARKING SPOTS

19 NEW CONCRETE COLUMN AND FOUNDATION. REFER TO STRUCTURAL DRAWINGS. REPAIR CONCRETE SIDEWALK AND ASPHALT PARKING LOT AS NECESSARY PRIOR TO RESEALING PARKING LOT.

20 PREFABRICATED 6" MODULAR RAISED CURB INSTALLED ON TOP OF EXISTING ASPHALT. CURB SECTIONS ARE TO HAVE TONGUE AND GROOVE CONNECTIONS AND MANGANESE ALLOY PINS. PROVIDE 4" OF TOPSOIL AND 2" OF #57 WASHED COLORED GRAVEL OVER GEOTEXTILE FABRIC. BASIS OF DESIGN MANUFACTURER: NITTERHOUSE MASONRY PRODUCTS OR EQUAL.

21 DOTTED LINE INDICATES APPROXIMATE EXTENTS OF SITE DEMOLITION. REPAIR CONCRETE AND ASPHALT AS NECESSARY.

22 EXISTING 10" WATER LINE.

23 EXISTING WATER METER PIT ON ADJACENT PROPERTY.

24 EXISTING CONCRETE WALKWAY AND PAD.

25 NEW OVERHEAD DOOR FOR REFERENCE ONLY.

26 NEW 3" DUCTILE IRON WATER SERVICE.

27 3" WATER SERVICE TAP AND VALVE.

28 EXISTING STEEL BARRIER.

GENERAL NOTES

A. RESEAL EXISTING PARKING LOT AFTER RENOVATIONS.

B. RESTRIPE EXISTING PARKING LOT PER SITE PLAN LAYOUT. ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642-WHITE.

C. REGULAR DUTY ASPHALT PAVEMENT ITEM 441-1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449) PG64-22 ON NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.06 GAL. PER SQUARE YARD) ON ITEM 441-2 1/2" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2 (449) ON ITEM 340-6" AGGREGATE BASE.

D. REFER TO SHEET NO G0.4 AND G0.5 FOR ADDITIONAL INFORMATION. CITY OF DAYTON ITEM 810, EXCAVATION AND BACKFILL FOR PIPING SYSTEMS AND ITEM 834 CONNECTION.

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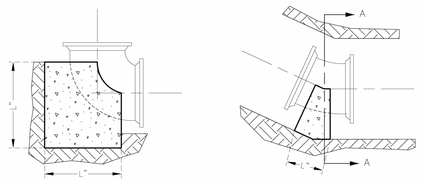
TITLE
ARCHITECTURAL SITE PLAN

SHEET NO.
G0.2

11/19/2025 1:44:44 PM

DEGREE OF BEND													
		11°			22°			45°			90°		
		L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.
SIZE OF PIPE	3"	4	3	0.1	6	4	0.2	10	4	0.3	10	4	0.3
	4"	5	4	0.2	9	5	0.4	14	5	0.6	14	5	0.6
	6"	8	6	0.5	12	7	0.7	20	8	1.4	18	9	1.7
	8"	9	8	0.7	16	9	1.4	24	12	2.7	25	11	4.0
	10"+12"	14	12	1.8	24	14	3.6	36	18	6.9	32	18	10.7
	16"	18	16	3.4	32	18	6.7	36	32	13.4	41	26	25.4
	20"	25	20	6.4	30	30	11.5	49	36	20.5	50	32	46.5
	24"	27	24	9.0	39	34	18.4	60	42	35.0	58	40	77.7

STEEL WILL BE USED AS REQUIRED BY THE ENGINEER

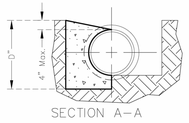


90° BENDS

BENDS LESS THAN 90°

NOTE:

1. BACKER DESIGN FOR 3000 PSF SOIL BEARING.
2. CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH.
3. A minimum of 6 mils thick polyethylene sheeting shall encase all bends tees and fittings where a thrust block is required and extend not less than 12" from the edge of the poured concrete.



SECTION A–A

NO.	DATE	REVISIONS
1	5/13	Convert–AutoCAD
2	9/18	ADDED NOTE NO. 3

THRUST BLOCKING FOR BENDS ON WATER MAINS

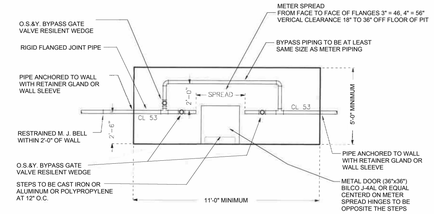
DRAWING NO. WA–2
SCALE: NOT TO SCALE
DRAWN: JANUARY 2001 BY: JBS

City of Dayton WATER

320 W. MONUMENT AVE.
DAYTON, OHIO 45402
CITY OF DAYTON
DEPARTMENT OF WATER
DIVISION OF WATER ENGINEERING

D-20

3" & 4" METER PIT
(FOR OFF ROAD USE ONLY)



NOTE:

1. DIMENSIONS SHOWN ARE INSIDE MEASUREMENTS OF PIT.
2. ALL PIPE SHALL BE CLASS 53 DUCTILE WITH FLANGED ENDS. (COOPER & BRASS MAY BE ACCEPTABLE. (SUBMIT FOR APPROVAL)
3. ALL VALVES SHALL BE FLANGED END, HANDWHEEL OPERATED, O.S.&Y. GATE VALVES, RESILENT WEDGE
4. PIT SHALL HAVE AN INSIDE HEIGHT OF 6' MINIMUM. FROM TOP OF GRAVEL OR FLOOR.
5. PROVIDE SPREADER FOR PROPER ALIGNMENT ON INSTALLATION OF METER SPREAD. WALLS TO BE FORMED IN-PLACE OR PRECAST CONCRETE.
6. WALLS TO FORMED IN-PLACE OR PRECAST CONCRETE.
7. TOP OF SLAB TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT AND APPROVED BY WATER ENFINEERING.
8. 12" MINIMUM 3/4" WASHED GRAVEL BOTTOM OF PIT OR CONCRETE SLAB WITH SUMP HOLE.
9. PIPING MATERIAL SHALL BE SUPPORTED AS APPROVED BY THE ENGINEER, AND WATER DISTRIBUTION.
10. ALTERNATE DESIGN MAY BE SUBMITTED FOR APPROVAL.
11. CLEARANCE MUST BE PROVIDED FOR COMBINATION SERVICES IN PIT INSTALLATIONS. (SUBMIT FOR APPROVAL)

GENERAL NOTE:
CONTACT WATER ENGINEERING FOR ANY SITUATION NOT COVERED IN STANDARDS

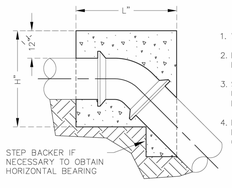
NO.	DATE	REVISIONS
1	3/07	NOTES
2	6/19	NOTES
3	7/19	NOTES

METER LAYOUT INSTALLATION

STANDARD DRAWING
DEPT. OF WATER ENGINEERING
CITY OF DAYTON

SCALE: NOT TO SCALE
DRAWN: 07–1999 BY: JBS

DEGREE OF BEND													
		11°			22°			45°			90°		
		L"	W"	H"	Vol.	L"	W"	H"	Vol.	L"	W"	H"	Vol.	L"	W"	H"	Vol.
SIZE OF PIPE	3"	12	18	12	1.5	13	25	16	3.0	18	30	19	5.9	25	30	24	10.4
	4"	12	24	16	2.6	16	30	18	5.0	22	36	24	11.0	27	48	25	18.7
	6"	12	48	18	6.0	15	43	36	13.4	30	55	24	22.9	37	54	36	41.6
	8"	12	63	24	10.5	18	57	34	20.2	36	57	33	39.2	47	60	46	75.0
	10"+12"	20	54	36	22.6	37	62	37	49.0	48	62	51	87.9	66	66	66	166.4
	16"	31	65	38	44.3	60	65	39	88.1	65	65	65	159.2	72	96	72	28.0
	20"	45	70	40	72.8	56	70	60	136.2	72	76	78	247.0	86	108	84	451.8
	24"	41	72	54	92.3	67	74	69	198.0	88	84	84	359.1	96	120	96	640.0

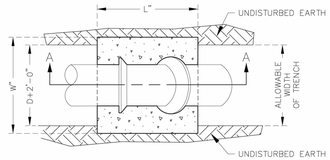


STEP BACKER IF NECESSARY TO OBTAIN HORIZONTAL BEARING

SECTION A – A

NOTE:

1. VOLUMES GIVEN IN CUBIC FEET.
2. BACKER TO BE CENTERED HORIZONTAL ON BEND.
3. STEEL ANCHOR RODS WILL BE USED AS REQUIRED BY ENGINEER.
4. BEND TO BE WRAPPED IN PLASTIC SHEETS PRIOR TO CONCRETE ENCASEMENT.



BENDS LESS THAN 90°

NO.	DATE	REVISIONS
1	5/13	Convert–AutoCAD
2	9/18	ADDED NOTE NO.4

THRUST BLOCKING FOR OVER VERTICAL BENDS (ONLY)

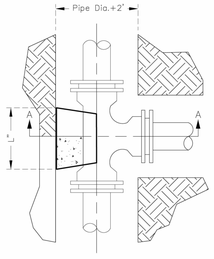
DRAWING NO. WA–3
SCALE: NOT TO SCALE
DRAWN: JANUARY 2001 BY: JBS

City of Dayton WATER

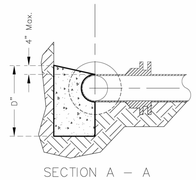
320 W. MONUMENT AVE.
DAYTON, OHIO 45402
CITY OF DAYTON
DEPARTMENT OF WATER
DIVISION OF WATER ENGINEERING

BRANCH																							
		3"			4"			6"			8"			10"+12"			16"			20"			24"		
RUN		L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.	L"	D"	Vc.f.
	3"	12	5	0.5																				
	4"	10	6	0.5	11	8	0.8																	
	6"	9	7	0.5	11	8	0.8	18	12	1.9														
	8"	8	8	0.5	10	9	0.7	18	12	1.9	23	16	3.5											
	10"	6	12	0.6	8	12	0.8	18	12	1.9	23	16	3.5	38	22	8.7								
	12"	6	12	0.6	8	12	0.8	18	12	1.9	23	16	3.5	38	22	8.7								
	16"	6	16	0.8	6	16	0.8	14	16	2.0	20	18	3.3	36	23	8.7	49	30	13.6					
	20"	6	20	1.0	6	20	1.0	11	20	1.9	18	20	3.3	35	24	8.7	46	32	13.6	60	38	26.5		
	24"	6	24	1.2	6	24	1.2	9	24	1.9	15	24	3.3	30	28	8.7	42	36	14.0	54	42	26.3	68	48	45.4

STEEL WILL BE USED AS REQUIRED BY THE ENGINEER



PLAN VIEW



SECTION A – A

NOTE:

1. BACKER DESIGN FOR 3000 PSF SOIL BEARING.
2. CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH.
3. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.
4. A minimum of 6 mils thick polyethylene sheeting shall encase all bends tees and fittings where a thrust block is required and extend not less than 12" from the edge of the poured concrete.
5. Contractor must mix bagged concrete with water prior to placing around fittings. Mixing concrete in trench is prohibited.

NO.	DATE	REVISIONS
1	5/13	Convert–AutoCAD
2	1/20	Added Notes 4&5

THRUST BLOCKING FOR WATER MAIN TEES

DRAWING NO. WA–1
SCALE: NOT TO SCALE
DRAWN: JANUARY 2001 BY: JBS

City of Dayton WATER

320 W. MONUMENT AVE.
DAYTON, OHIO 45402
CITY OF DAYTON
DEPARTMENT OF WATER
DIVISION OF WATER ENGINEERING

WATER DISTRIBUTION SYSTEM NOTES:

1. WATER MAINS, BENDS AND FITTINGS SHALL BE DUCTILE CAST IRON PIPE AND CONFORM TO ANSI A–21.51 (AWWA C151),CLASS 51 (UNLESS OTHERWISE NOTED).
2. THRUST BLOCKS ARE REQUIRED AT ALL FITTINGS.
3. THE LENGTH OF RESTRAINED JOINT REQUIREMENTS ARE INDICATED ON EACH PLAN AND PROFILE SHEET.
4. WELDING OF PIPE AND/OR APPURTENANCES IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE CITY OF DAYTON, DEPARTMENT OF WATER.
5. WATER MAINS SHALL HAVE A MINIMUM COVER OF 4 FEET, 6 INCHES. WATER MAINS SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL SEPARATION (OUT–TO–OUT) FROM ANY STORM OR SANITARY SEWER.
6. WATER MAINS CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE OUTSIDES OF THE PIPES (OUT TO OUT). ALSO, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE OF EQUAL DISTANT AND AS FAR FROM THE SEWER AS POSSIBLE. IF WATER MAIN CROSSES BELOW SANITARY SEWERS, THE SANITARY SEWER MUST BE WATER MAIN MATERIAL FOR THAT SPAN.
7. ONLY CITY OF DAYTON PERSONNEL SHALL OPERATE MAIN LINE WATER VALVES WITHIN THE DAYTON CORPORATION LIMITS.
8. ALL VALVE–OPERATING NUTS SHALL BE SET AT A MAXIMUM DEPTH OF 6 FEET. THE CONTRACTOR SHALL FURNISH AND INSTALL APPROVED EXTENSIONS AS REQUIRED.
9. THE CONTRACTOR SHALL BE ADVISED THAT ANY CLOSURE PIECES OR SLEEVES REQUIRED TO CONNECT SECTIONS OF THE CONCRETE MAIN LINE OR DUCTILE IRON CONNECTIONS, OTHER THAN THOSE SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS, SHALL BE AT HIS EXPENSE.
10. ALL TAPS TO EXISTING WATER MAINS WILL BE MADE BY THE CITY OF DAYTON AT THE CONTRACTOR'S EXPENSE. THIS WORK WILL INCLUDE FURNISHING AND INSTALLING THE TAPPING SLEEVE AND VALVE AND MAKING THE TAP. ALL OTHER WORK INCLUDING EXCAVATION, BACKFILL, AND RESTORATION OVER THE TAPPED MAIN SHALL BE BY THE CONTRACTOR. CONTACT WATER ENGINEERING AT (937) 333–3742.
11. SERVICE CONNECTIONS SHALL NOT BE MADE TO THE WATER MAIN UNTIL THE MAIN LINE HAS BEEN INSPECTED, TESTED, DISINFECTED AND RELEASED FOR TAPS. ALL WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 1"DIAMETER AND MINIMUM OF 5/8" WATER METER AND CONFORM TO THE CITY OF DAYTON STANDARDS FOR TAPS, SERVICES, METERS, AND BACKFLOW PREVENTION, (LATEST EDITION).
12. NO WATER SERVICE BRANCH SHALL BE LAID IN THE SAME TRENCH WITH A SANITARY SEWER LATERAL.
13. FIRE HYDRANTS SHALL BE LOCATED 3–FEET FROM THE FACE OF THE CURB OR EDGE OF THE PAVEMENT AND 4–INCH OPENING TO FACE THE STREET. FIRE HYDRANTS LOCATED WITHIN THE WALK MUST COMPLY WITH ADA REGULATIONS.
14. NO ADDITIONS, DELETIONS, OR REVISIONS TO THE WATER MAIN ARE TO BE MADE WITHOUT WRITTEN APPROVAL BY THE DEPARTMENT OF WATER.
15. DEPARTMENT OF WATER PERSONNEL WILL INSPECT THE WATER MAIN INSTALLATION.
16. ALL WATER MAIN CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF DAYTON CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) AND DEPARTMENT OF WATER ENGINEERING STANDARDS FOR WATER, SANITARY SEWER, AND STORM SEWER FACILITIES (LATEST EDITION).

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Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL
RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

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ITEM 810 EXCAVATION AND BACKFILL FOR CITY OWNED PIPING SYSTEMS

810.01 Description
810.02 Materials
810.03 Excavation
810.04 Trench Protection Systems
810.05 Disposal of Water from Excavations
810.06 Locating Underground Utilities
810.07 Bedding and Compaction
810.08 Backfill and Compaction
810.09 Settlement Guarantee
810.10 Street Cut Permit
810.11 Method of Measurement
810.12 Basis of Payment

810.01 Description. Excavation and Backfill for City Owned Piping Systems (COPS) shall be all the excavation, disposal of the excavated material (if necessary), replacement of the disposed excavated material, and related or other necessary Work, except Rock Excavation as defined in 811.01.

The excavation will generally be earth excavation and include: trench and other nearby excavation, earth excavation removal (if necessary) and removal of the obstructions and Structures within the vicinity of the trench and/or restoration of the disturbed areas. When no other excavation or similar item, in part or in whole, is included in the estimated quantities and Proposal, all excavation and backfill Work, except rock excavation, shall be included within this item and the cost shall be equally distributed throughout this item, unless specifically ordered otherwise by the Engineer.

This item shall cover the labor, Materials and incidentals necessary for excavation and backfill as shown on the Plans, specified or ordered by the Engineer.

Excavation, other than rock, shall include:

(a) The loosening, loading, removing and transporting of all Materials whether wet or dry, of every name and nature, and all seen and unforeseen obstacles necessary to be removed for any and all purposes essential to the construction and completion of all (COPS) Work under this contract.

(b) Any suitable and necessary protection. Excavation shall also include the transporting and disposing of all excess excavated Materials and other surplus Materials from the site of the job.

(c) The removal and disposal of paved and concrete surfaces of any type when necessary for the construction of COPS and related Structures or when necessary to construct new items either shown on the Plans or included in the Proposal.

(d) The removal and disposal of old manholes, old catch basins, old Sewers and pipelines that are in the way of the new Work and shall be subject to the salvaging provisions. Sewage lines less than 6 inches in diameter are to be plugged within this Work.

(e) The removal and disposal of trees, where necessary for Sewer construction; however, before any tree is removed, permission must first be obtained from the Engineer.

810.02 Materials. The Materials used shall be as follows:

General: All fill Materials shall be free of toxic contaminants. All fill material shall be approved by the Engineer and as shown on the approved Plans.

Structural Backfill: Structural backfill shall be placed where shown or specified below and around Structures, roads, walks, driveways, in the public right-of-way, etc. Structural backfill shall meet the requirements for Item 813.

Backfill and Fill Materials: Provide approved soil Materials for backfill and fill, free of clay lumps, rock or gravel larger than 6 inches in any dimension, debris, waste, frozen Materials, vegetation and other deleterious matter.

Pipe Bedding Materials: Pipe shall be bedded with one hundred percent crushed stone meeting the gradation requirements of ODOT Table 703.01-1 (AASHTO M43). Pipe bedding Materials for pipe sizes less than 15 inches will be an AASHTO M43 Size No. 8. Pipe bedding Materials for pipe sizes 15 inches and greater will be an AASHTO M43 Size No. 57 or No. 67.

810.03 Excavation. Excavation, other than rock excavation, shall be restricted to the limits as described below:

The excavation shall be according to the plan and grade as shown on the approved Plans, as described in the Specifications or proposal, or as ordered by the Engineer.

Each side of the excavation shall be at least 4 inches beyond the extremities of the Conduit, Structure, or appurtenance (unless otherwise noted). When possible, the sides shall be vertical for the full depth of the Conduit or Structure.

The width of the excavation at the top of the Conduit or Structure shall not exceed 9 inches beyond the prolongation of the Conduit extremities. The Engineer may allow wider widths for trench protection systems or other reasonable purposes.

Rock and boulders, which cannot be paid for as rock excavation, shall be removed to at least 4 inches beyond the Conduit or Structure surface. The void caused by the removal of the above rock shall be replaced with approved material. The approved material shall be Item 813 and shall be considered the same for pay purposes unless designated or ordered otherwise.

Dry trench conditions shall be maintained until joining and backfilling are completed and protected. Pipe, valves, and all fittings shall be kept clean. Pipe shall be placed only in a dry trench and if water should accumulate in the trench, a temporary plug at the end of the pipe shall remain in place until the trench is pumped dry.

For excavation beyond the limits as specified herein, there will be no payment for the excess removal or payment for the excess material replaced, and the Materials used for restoration shall meet the standards as provided in the general subject area, Item 801.

Where unstable material is encountered within and beyond plan grade and side limitations, the unstable material shall be removed as directed by the Engineer. Compensation shall be as set forth in 801.06.

Existing house connections, sanitary Sewer, storm Sewer, water mains, gas mains, Conduit lines, drain pipes and other utilities shall be supported across trenches until backfill is completed.

Excavated Materials shall be promptly removed and disposed of in accordance to Federal, State and Local laws when the Materials are not suitable for backfill or when due to the location of the Work on main thoroughfares or in congested areas, there is not sufficient room to permit the storing of the excavated Materials.

When the storing of the excavated material is permitted at the site of the Work, the same shall be piled to prevent the dirt from spreading over the pavement to the Engineer's satisfaction. Adequate barricading and lighting shall be provided.

No opening shall be made before all Materials, parts and special fittings necessary to complete the Work are on hand and available. No opening shall be kept open longer than is necessary to properly execute the Work for which the opening is made.

In the area of construction, ingress and egress shall be provided by the Contractor to all properties along the way. If it becomes necessary to block walks or driveways, the Contractor shall provide, at no additional cost to the City, suitable temporary runarounds, bridging or other means of ingress and egress to the properties affected.

The Contractor shall comply at all times with the requirements of the traffic control plan as shown on the approved Plans. Access to fire hydrants must be provided and no dirt or material shall be piled within 10 feet of a hydrant.

The Contractor shall provide during construction an effective means of keeping down the dust to the satisfaction of the Engineer and in accordance with applicable dust control measures contained within these Specifications.

Mud tracked onto paved areas outside of the excavation zone shall be prevented. Any tracked mud shall be promptly cleaned up. Streets within the construction area shall be swept clean at the end of the workday or as approved by the Engineer.

Fuel, oils or other spills shall be promptly contained and cleaned up.

For excavations that are near or cross waterways, soil erosion control measures shall be put in place as shown on the approved construction Plans, as approved by the Engineer, and as may be required from any applicable permit(s).

810.04 Trench Protection Systems. The Contractor shall furnish, put in place and maintain an adequate protection system to prevent cave-ins designed in accordance with OSHA Standards. Other safety measures as required by OSHA 1926 shall be observed and practiced.

Protection system options include utilizing a trench box, proper sloping, shoring or sheeting. Protective systems for use in excavations more than 20 feet in depth must be designed by a registered professional engineer that is hired by the Contractor. Prior to the start of the excavation, the Contractor may be required to submit to the Engineer an excavation plan to demonstrate compliance with OSHA Standard 29 CFR Part 1926.650.

If at any time the City so orders, the Contractor shall install additional protection, but compliance with such orders or failure on the part of the City to exercise its right to give such order shall in no way release the Contractor from liability for damage caused by weak or insufficient protection nor from his responsibility to protect the Work, all Persons, and/or property.

810.05 Disposal of Water from Excavations. The Contractor, at its own expense and at all times during the progress of the Work, shall do all

pumping, draining, bailing or other Work necessary to keep the trenches and excavations free from water. Water from the trenches and excavations shall be disposed of in such a manner as will neither cause injury to the public, nor damage to public or private property, to the Work completed or in progress, to the surface of the streets, nor cause any interference with the use of adjacent property and meet all local, State, and federal requirements for water disposal.

810.06 Locating Underground Utilities. The Contractor shall contact OUPS, utility companies and property Owners to request that all underground utilities are located prior to any excavations.

A forty-eight hour notice must be given. Within the City of Dayton corporation limits, Sewer laterals are considered privately owned and will not be marked by the City.

The information on the Plans is believed to be correct. All underground utilities and Structures shown on the Plans were obtained from survey and available records.

However, the Owner does not assume responsibility for any such utilities or Structures not shown nor for incorrect location and depth. The Contractor shall view the job site and make an independent examination of the Project site for soil conditions, locations and depths of utilities and underground Structures. The Contractor shall uncover and determine the exact location of any utility or Structure that the COPS line crosses, at least 200 feet ahead of construction to permit adjustments in line and grade, if necessary, without undue complications and to provide the necessary protection during construction. The excavating and backfilling cost for exposing and locating the utilities shall be included in the Unit Price Bid for excavation and backfill of the pipe.

Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult piping or utility Owner and Engineer immediately for directions to proceed.

810.07 Bedding and Compaction. Pipe bedding shall be as defined on the approved Plans and 810.02. Payment for bedding shall be included in the Unit Price for Item 810. After preparation of the trench bottom, a pipe bed shall be prepared using one hundred percent crushed stone.

The bedding material shall be spread with the full width of the trench bottom and thoroughly compacted by hand tampering up to the spring line of the pipe in layers not to exceed 3 inches.

The bedding material shall be so placed as to fill the space under the lower part of the pipe by slicing under the haunches with a shovel.

One hundred percent crushed stone shall be placed to a level 6 inches below and 6 inches above the pipe.

810.08 Backfill and Compaction. When native material backfilling is permitted outside of the public Right-of-Way, the excavated backfill material shall be reasonably free of rubbish, muck, unsuitable material, lumps and frozen parts and meet the requirements of 810.02.

When working in the public Right-of-Way, structural backfill is required. Structural backfill above the bedding shall be mechanically compacted in horizontal lifts not exceeding 12 inches in thickness using vibratory compactors and rollers. Mechanical compaction cannot be initiated over vitrified clay pipe until 5 feet of fill has been placed over the pipe. Within the public right-of-way the structural backfill shall be compacted to ninety percent maximum density (Modified Proctor test ASTM D1557) or a seventy percent relative density (ASTM D4253 or D4254). The relative density test is to be used for Materials containing over thirty percent by mass retained on a 3/4 inch sieve.

Do not place or compact fill in a frozen condition or on top of frozen material.

In any of the methods used, the backfill shall remain the total responsibility of the Contractor for the life of the contract and Guarantee periods.

As the Work progresses, the Contractor shall remove and dispose of all surplus material, including material unsuitable for backfill.

810.09 Settlement Guarantee. Bedding and backfilling Specifications are intended to reduce settlement to a minimum amount consistent with economy. It is expected that some settlement may occur and the Contractor's responsibility for repair of such settlement shall continue for a period of one year from the date of acceptance of the Work.

The Contractor shall repair, at its own expense, such settlement that is deemed excessive by the Engineer. The Contractor shall make all repairs and replacements necessary within thirty Days after notice from the Engineer.

810.10 Street Cut Permit. A City of Dayton street cut permit must be obtained from the City Engineer's office for any excavation Work in the public Right-of-Way.

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Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

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810.11 Method of Measurement. The excavation, bedding, and backfill to be paid for will be the actual number of linear feet completed and measured horizontally along the centerline of the pipe alignment.

The measurement of the excavation, bedding, and backfill shall be taken through Conduits, valves, manholes, other similar Structures, specials and other like construction. Measurements shall be taken to centerline intersections.

At connection locations as set forth in Item 834 the measurement shall be taken to the nearest inside face or edge of the Conduit or Structure. Measurements shall extend to the termini of the actual Conduits or centerline. The interior widths of Structures included in Item 832 and the length of tunneling included in Item 812 will be deducted from the gross length of excavation and backfill measured.

The excavation, bedding, and backfill for lateral storm Sewer lines between manholes, catch basins or trunk lines shall be measured horizontally along the centerline from inside face to inside face or edge of the Conduits or Structures.

The depth of excavation, bedding, and backfill shall be defined as the measurement from the ground or pavement surface to the bottom surface of the bedding or Structure (if no bedding is required).

810.12 Basis of Payment. Payment shall be made at the contract Unit Price bid per linear foot, measured as provided above, and under the following:

Item	Unit	Description
810	Linear foot	Excavation and backfill for____" pipe with native material
810	Linear foot	Excavation and backfill for_____" pipe with structural backfill
810	Linear foot	Excavation and backfill for___" (box, elliptical pipe etc. with or without structural backfill)
810	Lump Sum	Street cut permit

The depth measurement shall be subject to 801.06.

ITEM 834 CONNECTION

834.01 Description
834.02 Definition
834.03 Materials
834.04 Construction
834.05 Method of Measurement
834.06 Basis of Payment

834.01 Description. This item shall cover the labor, Materials and incidentals necessary for the construction of necessary connections into Sewers and Sewer appurtenances.

834.02 Definition. A connection shall be the actual and necessary breaking or coring into a Structure, inserting a Conduit and sealing the void between the Conduit and Structure.

834.03 Materials. The Materials shall meet the requirements as set forth in 830.02. Resilient Materials for connectors and filler rings shall be manufactured from natural or synthetic rubber. Mechanical devices used as expansion rings, and tension bands and take up devices used for mechanically compressing the resilient portion of the connector against the pipe or manhole shall be made from a material or Materials in combination that will assure durability, strength, resistance to corrosion, and have properties that will ensure continued resistance to leakage. Castings used to mechanically compress resilient Materials shall conform to the requirements of ASTM A48 or ASTM A536. Bolt assemblies used with such castings shall be of high strength low alloy steel. The resilient Materials, the mechanical devices, the castings and bolt assemblies shall be in accordance with ASTM C923.

834.04 Construction. The connections shall be constructed at the locations shown on the Plans, as specified and/or as directed by the Engineer.

For sanitary Sewer connections and specified storm Sewer connections, the hole into the existing or new Sewer, manhole, Structure or other type unit shall be drilled with a diamond core or equivalent type drill designed for this purpose. The opening shall be sized to fit the pipe and connector assembly. The connector assembly shall be such that positive seal is accomplished at two locations: (1) between the connector and the Structure and the Structure wall and (2) between the connector and pipe. The seal between the connector and Structure wall may be made by either mechanical means or by casting the connector integrally with the Structure wall. The seal between the connector and

the pipe may be made by mechanical means or by compression of the resilient material against the outside of the pipe.

For other storm Sewer connections, a hole shall be broken into the existing or new Sewer, manhole, catch basin, Structure or other type unit by means of a pneumatic hammer or other approved method. The opening shall be large enough to receive the pipe with enough space to make a good mortar joint, both inside and outside of the connected unit, and care shall be taken not to crack the Sewer or Structure beyond the limits necessary when making the opening.

834.05 Method of Measurement. The connections to be paid for will be the actual number of connections incorporated in the Work as shown on the Plans, specified and/or ordered by the Engineer.

834.06 Basis of Payment. Payment shall be made at the contract Unit Price bid per each, the number determined as provided above, and under the following:

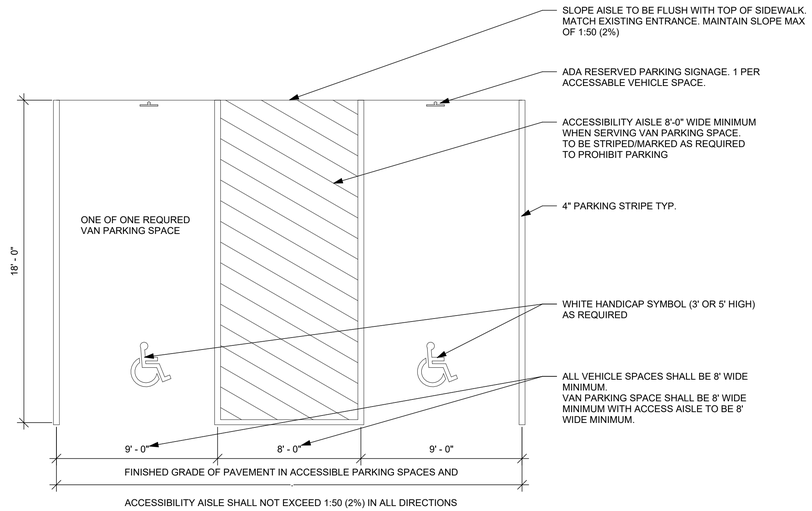
Item	Unit	Description
834	Each	Connection, size

A. SIGNS: "RESERVED PARKING" SIGN (USDOT STANDARD R7-8 SIGN.) THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE SIGN MUST BE SUPPLEMENTED WITH A "$250 FINE MINIMUM" SIGN (USDOT STANDARD R7-8a SIGN) AS APPLICABLE. CONFIRM WITH LOCAL REGULATIONS.

B. A US DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED PARKING) AND SUPPLEMENTAL SIGNS AS NOTED ABOVE MUST BE MOUNTED ON A PERMANENT POST SO THAT THE LOWER EDGE OF THE BOTTOM MOST SIGN IS AT LEAST FIE FEET ABOVE THE PAVEMENT/ GROUND. THE POST MUST BE MOUNTED IN THE CENTER OF THE ADA ACCESSIBLE PARKING SPACE, NO MORE THAN FIVE FEET FROM THE FRONT OF THE PARKING SPACE. ONE SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE AND LOCAL AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS AND STANDARDS AND LOCAL ACCESSIBILITY CODE.

C. ALL HANDICAP PARKING SPACES MUST ALSO HAVE A PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY CENTERED IN THE PARKING STALL.

ADA RESERVED PARKING SIGN
3" = 1'-0"



2 HANDICAP PARKING SPACE AND STRIPING PLAN
1/4" = 1'-0"

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ABBREVIATIONS

SYMBOL	
@	AT
&	AND
∠	ANGLE
Ø	DIAMETER
℄	CENTER LINE
▱	PLATE

A	
ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ANCH	ANCHOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL
ATTEN	ATTENUATED
AUTO	AUTOMATIC
AVG	AVERAGE

B	
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT

C	
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALL
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CL	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CPU	CENTRAL PROCESSING UNIT (COMPUTER)
CY	CUBIC YARD

D	
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
DTL	DETAIL

E	
EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST OR EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FND	FOUNDATION
FRT	FIRE RETARDANT TREATED WOOD
FT	FOOT OR FEET OR FULLY TEMPERED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
FOW	FACE OF WALL

G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GRADE OR GRADING
GEN	GENERAL
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM BOARD
GWT	GLAZED WALL TILE

H	
HB	HOSE BIBB
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWD	HARDWARE

I	
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE (D) (ING)
INT	INTERIOR
INV	INVERT

J	
JB	JUNCTION BOX
JC	JANITOR CLOSET

L	
L	LONG
LAV	LAVATORY
LBS	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTL	LINTEL
LVR	LOUVER

M	
M	MEN OR METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIL	THOUSANDTHS OF AN INCH
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL

N	
N	NORTH OR NITROGEN
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NUMBER OR NITROUS OXIDE
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O	
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFOI	OWNER FURNISH, OWNER INSTALL
OFVI	OWNER FURNISH, VENDOR INSTALL
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
O_2	OXYGEN

P	
PAR	PARALLEL
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PME	PLUMBING, MECHANICAL & ELECTRICAL
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE

Q	
QTY	QUANTITY

R	
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY

S	
S	SOUTH
SAN	SANITARY
SB	SINK BASE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SH	SPRINKLER HEAD OR SHOWER HEAD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYS	SYSTEM

T	
T & G	TONGUE & GROOVE
TB	TOWEL BAR
T&B	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL

U	
UC	UNDER CABINET OR COUNTER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

V	
V	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VS	VACUUM SLIDE

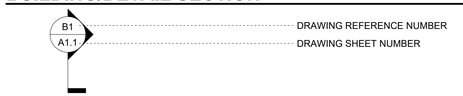
W	
W	WIDE OR WEST OR WOMEN
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET OR WALL CABINET
WD	WOOD
WIN	WINDOW
WP	WORK POINT
WPT	WOOD PRESERVATIVE TREATMENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

REFERENCE SYMBOLS

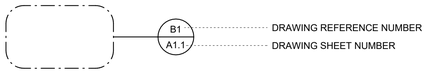
DRAWING TITLE

INTERIOR ELEVATIONS

BUILDING/DETAIL SECTION



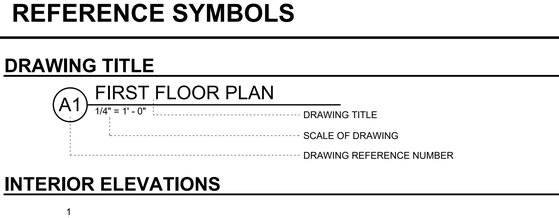
ENLARGED DETAIL



EXTERIOR ELEVATIONS

MATCH LINE

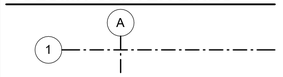
MATERIAL SYMBOLS IN SECTION



ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.

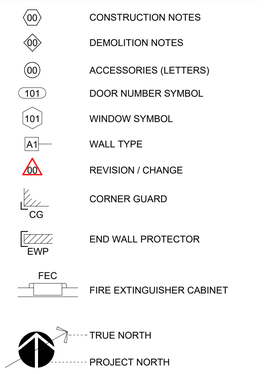
DRAWING SYMBOLS

COLUMN CENTER LINES

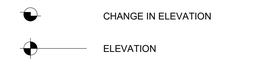


ROOM SYMBOL

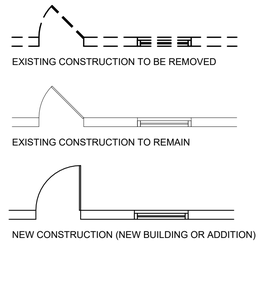
PLAN SYMBOLS



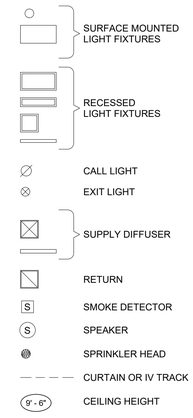
ELEVATION SYMBOLS



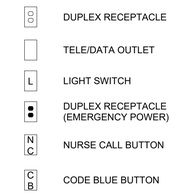
TYPICAL WALL CONVENTIONS



REFLECTED CEILING SYMBOLS



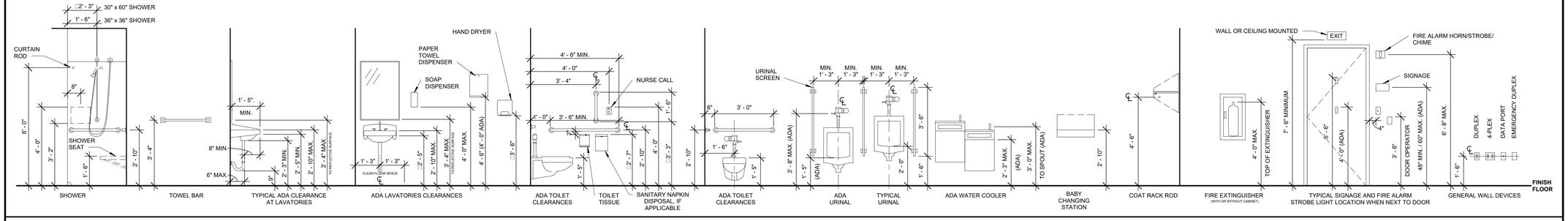
INTERIOR ELEVATION SYMBOLS



FIRE BARRIER LEGEND

MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)



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RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
JOB NO.	4209.00
DRAWN	MLG
CHECKED	RFW/TJB

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TITLE
ABBREVIATIONS AND SYMBOLS

SHEET NO.
A0.1

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ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR	BASE	WAINSCOT MAT.	WAINSCOT HT.	WALLS N	WALLS S	WALLS E	WALLS W	CEILING MAT.	REMARKS
100	VESTIBULE	MAT-1	RB-1			P-2	P-1	P-1	P-1	APC-1	
101	CORRIDOR	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
102	RECEPTION	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
103	TOILET	PT-1	PTWB-1			P-1	P-1	P-1	PWT-1	APC-1	2
104	OFFICE	CPT-1	RB-1			P-1	P-1	P-2	P-1	APC-1	
105	OFFICE	CPT-1	RB-1			P-1	P-1	P-2	P-1	APC-1	
106	OFFICE	CPT-1	RB-1			P-1	P-1	P-2	P-1	APC-1	
107	MULTI / TRAINING	CPT-1	RB-1	VWP-1	32"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	1
107B	SUPPLY/ STOR.	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
108	CONFERENCE ROOM	CPT-1	RB-1	VWP-1	32"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	1
109	SECURE CORRIDOR	MCT-1	RB-1	VWP-1	48"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	
109A	TACTICAL GEAR STORAGE	MCT-1	RB-1	VWP-1		P-1/VWP-1	P-1/VWP-1	-	P-1/VWP-1	APC-1	3
110	IT / ELEC.	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
111	STORAGE/LAUNDRY	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
112	ROLL CALL	CPT-1	RB-1	VWP-1	32"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	1
113	PERSONAL GEAR	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114	PERSONAL GEAR CHANGING ROOM	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	4
114A	CHANGE A	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114B	CHANGE B	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114C	CHANGE C	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114D	CHANGE D	PT-1	PTWB-1			P-1	P-1	P-1	P-1	GYP/P-1	
114E	CHANGE E	PT-1	PTWB-1			P-1	PWT-1	P-1	PWT-1/P-1	APC-1	
114F	CHANGE F	PT-1	PTWB-1			P-1	PWT-1	PTW-1	P-1	APC-1	
114G	CHANGE G	PT-1	PTWB-1			P-1	P-1	P-1	P-1	GYP/P-1	
114H	CHANGE H	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114J	CHANGE J	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114K	CHANGE K	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	
114L	TLT ROOM	PT-1	PTWB-1			P-1	P-1	P-1	PWT-1	APC-1	
115	REPORT/ MAIL ROOM	MCT-1	RB-1	VWP-1	32"	P-1	P-1	P-1/VWP-1	P-1	APC-1	
116	SERGEANTS	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
116A	SERGEANT MEETING ROOM	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
116B	SERGEANT GEAR	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
117	MOTHER'S	PT-1	RB-1			P-1	P-1	P-1	PWT-1/P-1	APC-1	5
118	TOILET	PT-1	PTWB-1			P-1	P-1	P-1	PWT-1	APC-1	4
119	BREAK	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	5
120	JAN.	EXIST	RB-1			P-1/VWP-1	P-1	P-1/VWP-1	P-1	APC-1	5
121	FORENSICS WORK AREA	SC-1	RB-1	VWP-1	32"	P-1	P-1/VWP-1	P-1	P-1	APC-1	
121A	KITCHENETTE	SC-1	RB-1			P-1	P-1	P-1	P-1	APC-1	5
122	OFFICE	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
123	GEAR/CHANGING	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
123C	CHANGE	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
124	FORENSICS/ EVIDENCE	SC-1	RB-1			P-1	P-1	P-1	P-1	GYP/P-1	
125	UNISEX TOILET	PT-1	PTWB-1			P-1	P-1	PTW-1	P-1	APC-1	4
126	VEHICLE BAY/ EVIDENCE	SC-1	--			P-1	P-1	P-1	P-1	GYP/P-1	
127	FITNESS	RT-1	PTWB-1	VWP-1	48"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	GYP/P-1	
127B	FITNESS STOR.	RT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
127C	TOILET ROOM	PT-1	PTWB-1			PWT-1	PWT-1	P-1	P-1	APC-1	4
128	BOMB SQUAD	SC-1	--			P-1	P-1	P-1	P-1	GYP/P-1	
201	BASEMENT	EXIST	--			P-1	P-1	P-1	P-1	EXIST	
202	MAINTENANCE TUNNEL	EXIST	--			P-1	P-1	P-1	P-1	EXIST	
203	BASEMENT	EXIST	--			P-1	P-1	P-1	P-1	EXIST	
204	STORAGE	EXIST	--			P-1	P-1	P-1	P-1	EXIST	
205	STORAGE	EXIST	--			P-1	P-1	P-1	P-1	EXIST	

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1	6" SOLID SURFACE (SSM-1) CHAIR RAIL ABOVE VINYL WALL PROTECTION.
2	PORCELAIN TILE 1/2 WAY UP WET WALL ONLY. CAP WITH SCHLUTER STRIP.
3	VINYL WALL PROTECTION INSTALLED BEHIND SHELVES.
4	SEE ROOM FINISH PLAN FOR WET WALL LOCATIONS.
5	6" RUBBER BASE IN THIS AREA.

MATERIAL LEGEND

ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	COLOR	CONTACT INFO	FLAME / SMOKE	REMARKS
BASE							
PTWB-1	PORCELAIN TILE WALL BASE	DALTILE	BLANC LINEN P685	FABRIQUE	VICKI MARCH, 702.517.3335		
RB-1	RUBBER BASE	JOHNSONITE	TSB-XX WITH COVE, 4.5" (6" IN WET LOCATIONS AS NOTED)	262 DRIZZLE	GREG WELDON, 513.909.9033	ASTM E648/NFPA 253	
CABINETS							
PL-1	PLASTIC LAMINATE	WILSONART		AMBER CHERRY 7919	KATIE MASON, 614.971.9636		
PL-2	PLASTIC LAMINATE	WILSONART		CLASSIC LINEN 4943	KATIE MASON, 614.971.9636		
SS-1	STAINLESS STEEL						
SSM-1	SOLID SURFACE	LX HAUSYS		PAUSE R009	MICHELLE ALLEN, 513.214.9939		
CEILING							
APC-1	ACOUSTIC PANEL CEILING	ARMSTRONG	686 MESA 24"x24"	WHITE	JENNIFER McCOY, 513.919.2263	CLASS A	
EX	EXISTING						
EXPS-1	EXPOSED STRUCTURE						
GYB / P-1	GYPSUM BOARD PAINTED	SHERWIN WILLIAMS	SW7071	GRAY SCREEN	KAREN MCILWIAN, 317.714.5610		
DOORS							
DEP-1	DOOR & FRAME PAINT	SHERWIN WILLIAMS	SW 6234	UNCERTAIN GRAY	KAREN MCILWIAN, 317.714.5610		
DEP-2	DOOR & FRAME PAINT	SHERWIN WILLIAMS	TBD		KAREN MCILWIAN, 317.714.5610		3
FLOOR							
CPT-1	CARPET TILE	SHAW CONTRACT	SEA EDGE TILE	SKYLINE CYAN 72501	AMY CLARK, 513.375.7429	CLASS 1 <450	1
EX	EXISTING						
MAT-1	WALK-OFF MAT	SHAW CONTRACT	WELCOME II TILE	CHARCOAL 31549	AMY CLARK, 513.375.7429	CLASS 1 <450	
MCT-1	MARMOLEUM COMPOSITE TILE	FORBO	MCT TILE 13.11"x13.11"	3055 FRESCO BLUE	BRETT JOHNSON, 513.319.9044	CLASS 1 <450	
PC-1	POLISHED CONCRETE						
PT-1	PORCELAIN TILE	DALTILE	EMERGENT 12"x24"	ALUMINUM EM32	VICKI MARCH, 702.517.3335		
RT-1	RUBBER TILE	ROPPE	RECOIL (34.25"x34.25", INTERLOCKING TILES)	COBALT 609	SCOTT GRINER, 513.316.9939	TYPE 1 <450	
SC-1	SEALED CONCRETE						
SPECIALTY							
CG-1	CORNER GUARD	INPRO		GRAYSTONE	KRISTI ASHFORD, 513.646.2163		
EWP-1	END WALL PROTECTION	INPRO		GRAYSTONE	KRISTI ASHFORD, 513.646.2163		
SSC-1	LX HAUSYS	LX HAUSYS		PAUSE R009	MICHELLE ALLEN, 513.214.9939		
WALL							
EX	EXISTING						
P-1	PAINT	SHERWIN WILLIAMS	SW 7071	GRAY SCREEN	KAREN MCILWIAN, 317.714.5610		
P-2	PAINT	SHERWIN WILLIAMS	SW 6796	BLUE PLATE	KAREN MCILWIAN, 317.714.5610		2
PWT-1	PORCELAIN TILE	DALTILE	BLANC LINEN P685	FABRIQUE	VICKI MARCH, 702.517.3335		
VWP-1	VINYL WALL PROTECTION	INPRO	0151	GRAYSTONE	KRISTI ASHFORD, 513.646.2163	CLASS A	

MATERIAL LEGEND REMARKS

No.	REMARK
1	LAY CARPET IN ASHLAR PATTERN
2	ACCENT COLOR IN LOCATIONS NOTED ON ROOM FINISH SCHEDULE.
3	PAINT EXTERIOR SIDE OF EXTERIOR DOORS ONLY.

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TIMOTHY J. BEMENT
12305
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Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
JOB NO.	4209.00
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CHECKED	RFW/TJB

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TITLE
FINISH SCHEDULES

SHEET NO.
A0.2

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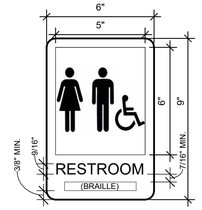
DOOR AND FRAME SCHEDULE

DOOR No.	ROOM NAME	HDW. SET	DOOR SIZE W	DOOR SIZE H	DOOR T	DOOR MAT.	DOOR TYPE	DOOR FIN.	DOOR U/C	FRAME MAT.	FRAME TYPE	FRAME FIN.	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE RTG.	REMARKS
100A	VESTIBULE	2.0	3' - 0"	7' - 0"		ALUM	AL1			ALUM			B1/A0.6	D1/A0.5	C1/A0.6		2, 3, 5
100B	VESTIBULE	3.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4, 6
101	SECURE CORRIDOR	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
102	RECEPTION	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
103	TOILET	11.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	1
104	OFFICE	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
105	OFFICE	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
106	OFFICE	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
107A	MULTI / TRAINING	10.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6		
107B	SUPPLY/ STOR.	8.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
107C	MULTI / TRAINING	6.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
108	CONFERENCE ROOM	13.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
109A	SECURE CORRIDOR	1.0	3' - 0"	7' - 0"	1 3/4"	HM	NL2	DEP-1		HM	2	DEP-1	B5/A0.6	D5/A0.6			2, 4
109B	SECURE CORRIDOR	1.0	3' - 0"	7' - 0"	1 3/4"	HM	NL2	DEP-1		HM	2	DEP-1	B5/A0.6	D5/A0.6			2, 4
110	IT / ELEC.	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
111	STORAGE/LAUNDRY	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
112	ROLL CALL	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
114A	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114B	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114C	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114D	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			1
114E	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114F	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114G	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			1
114H	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114J	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
114K	PERSONAL GEAR CHANGING ROOM	14.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	3	DEP-1	F4/A0.6	F5/A0.6			
115	REPORT/ MAIL ROOM	13.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
116	SERGEANTS	5.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
116A	SERGEANT MEETING ROOM	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
116B	SERGEANT GEAR	15.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	F4/A0.6	F5/A0.6			
117	MOTHER'S	12.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
118	TOILET	11.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	1
119	BREAK	13.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6		
120	SECURE CORRIDOR	15.0	3' - 4 1/2"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	F4/A0.6	F5/A0.6			
121A	FORENSICS WORK AREA	5.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6		4
121B	FORENSICS WORK AREA	5.0	3' - 0"	7' - 0"	1 3/4"	WD	NL1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6		
121C	FORENSICS WORK AREA	1.0	3' - 0"	7' - 0"	1 3/4"	HM	NL2	DEP-1		HM	2	DEP-1	B5/A0.6	D5/A0.6			2, 4
122	OFFICE	9.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
125	UNISEX TOILET	11.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	1
126A	FORENSICS/ EVIDENCE	7.0	3' - 6"	7' - 0"	1 3/4"	WD	NL1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6		
126B	VEHICLE BAY/ EVIDENCE	1.0	3' - 6"	7' - 0"	1 3/4"	HM	NL1	DEP-1		HM	2	DEP-1	B5/A0.6	D5/A0.6			2, 4
127A	FITNESS	10.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	2	DEP-1	B3/A0.6	D3/A0.6		-	
127B	FITNESS STOR.	8.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	2	DEP-1	B3/A0.6	D3/A0.6		-	
127C	TOILET ROOM	11.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	1
127F	FITNESS	1.0	3' - 0"	7' - 0"	1 3/4"	HM	NL2	DEP-1		HM	2	DEP-1	B5/A0.6	D5/A0.6			4
128A	BOMB SQUAD	4.0	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	4
128B	BOMB SQUAD	1.0	3' - 6"	7' - 0"	1 3/4"	HM	NL1	DEP-1		HM	2	DEP-1	B5/A0.6	D5/A0.6			2, 4
204	STORAGE	8.0	2' - 8"	7' - 0"	1 3/4"	HM	F4	STAIN		HM	2	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
205	STORAGE	8.0	2' - 8"	7' - 0"	1 3/4"	HM	F4	STAIN		HM	2	DEP-1	B2/A0.6	D2/A0.6	E2/A0.6	-	
OH1	VEHICLE BAY/ EVIDENCE	16.0	16' - 0"	12' - 0"		STEEL	OH1						D5/A0.7	F3/A0.7	F5/A0.7		
OH2	BOMB SQUAD	16.0	16' - 0"	12' - 0"		STEEL	OH1						D5/A0.7	F3/A0.7	F5/A0.7		

DOOR REMARKS

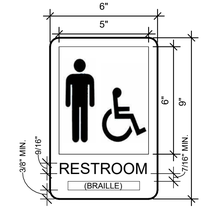
No.	REMARK
1	SIGN TYPE 1 AT THIS DOOR. REFER TO SIGNAGE LEGEND ON THIS SHEET.
2	SIGN TYPE 4 AT THIS DOOR. REFER TO SIGNAGE LEGEND ON THIS SHEET.
3	REFER TO STOREFRONT AND WINDOW SCHEDULE FOR MORE DETAILS.
4	COORDINATE ACCESS CONTROL TO THIS DOOR WITH OWNER'S IT.
5	COORDINATE EMERGENCY DOOR LOCK WITH OWNER'S IT.
6	DOOR TO UNLOCK WITH CARD READER AND PUSH BUTTON ACTIVATED FROM RECEPTION 102.

SIGNAGE LEGEND



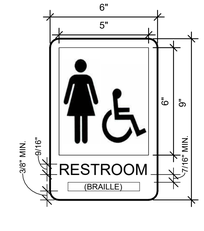
UNISEX RESTROOM - TYPE 1

3" = 1'-0"



MEN'S RESTROOM - TYPE 2

3" = 1'-0"



WOMEN'S RESTROOM - TYPE 3

3" = 1'-0"

SIGN NOTES

A. ALL SIGNS SHALL HAVE BRAILLE LETTERING BENEATH TEXT, TYPICAL.

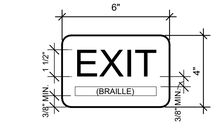
B. SIGNS MOUNTED ON GLASS AT DOOR NEED TO BE MOUNTED WITH ADHESIVE AND MATCHING BACKER PLATE FOR OTHER SIDE OF GLASS.

C. TEXT AND GRAPHICS TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH BACKGROUND. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

D. BACKGROUND TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH TEXT AND GRAPHICS. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

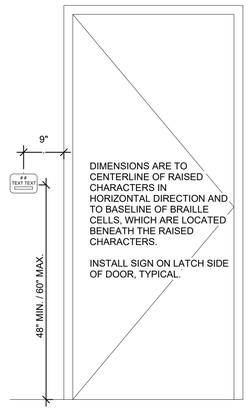
E. 1/2" RADIUS CORNERS.

F. ALL TEXT ON SIGNS LOCATED NEXT TO INTERIOR DOORS WILL BE 1/32" RAISED CHARACTERS, UPPERCASE, AND VIEWABLE AT LESS THAN 6 FEET.



EXIT SIGN - TYPE 4

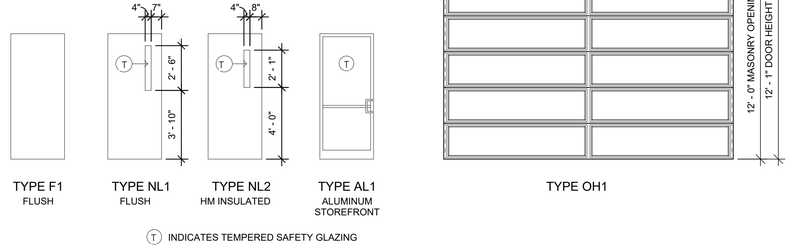
3" = 1'-0"



SIGNAGE LOCATION

3/4" = 1'-0"

DOOR ELEVATIONS



TYPE F1 — FLUSH

TYPE NL1 — FLUSH

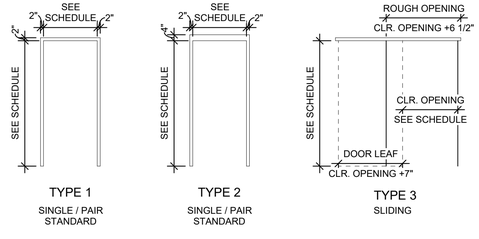
TYPE NL2 — HM INSULATED

TYPE AL1 — ALUMINUM STOREFRONT

TYPE OH1

(T) INDICATES TEMPERED SAFETY GLAZING

FRAME ELEVATIONS



TYPE 1 — SINGLE / PAIR STANDARD

TYPE 2 — SINGLE / PAIR STANDARD

TYPE 3 — SLIDING

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NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
JOB NO.	4209.00
DRAWN	MLG
CHECKED	RFW/TJB

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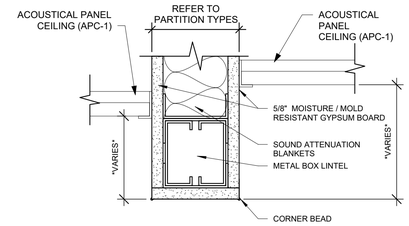
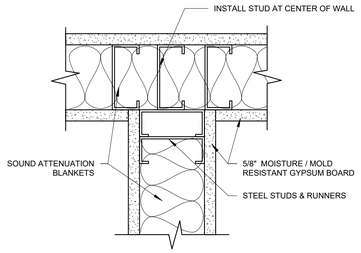
TITLE
DOOR SCHEDULES

SHEET NO.
A0.3

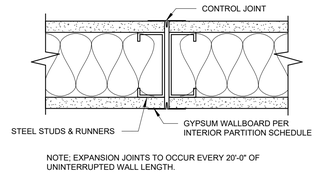
11/19/2025 1:45:04 PM



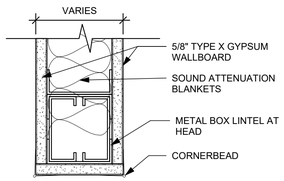
B1 TYP. BULKHEAD DETAIL
3" = 1'-0"



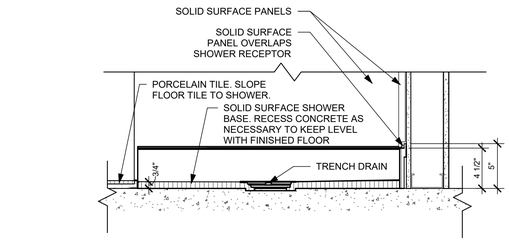
B2 TYP. GWB WALL INTERSECTION
3" = 1'-0"



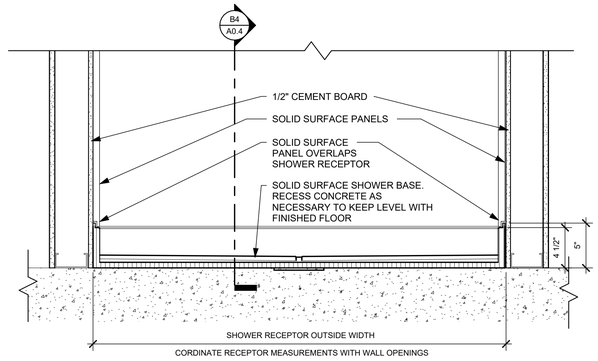
C1 TYP. GWB EXPANSION DETAIL
3" = 1'-0"



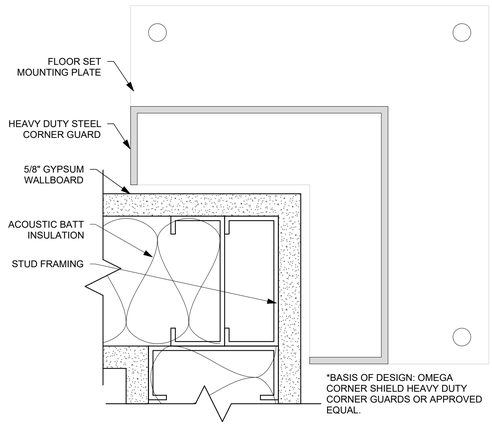
C2 TYP. HEAD DETAIL - WALL OPENING
3" = 1'-0"



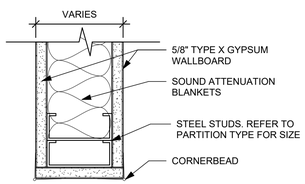
B4 TYP. SHOWER RECEPTOR DETAIL SECTION
1 1/2" = 1'-0"



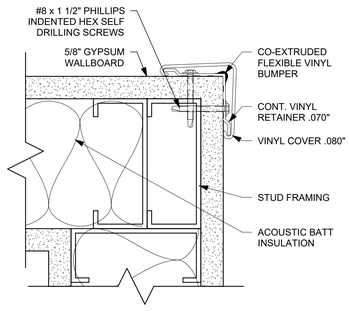
C4 TYP. SHOWER RECEPTOR DETAIL
1 1/2" = 1'-0"



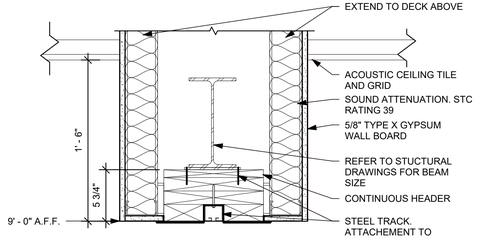
E1 SG-1 IMPACT RESISTANT CORNER GUARD
6" = 1'-0"



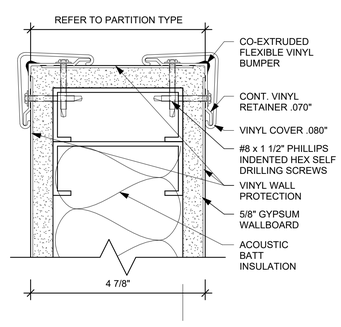
D2 TYP. JAMB DETAIL - WALL OPENING
3" = 1'-0"



E4 CG-1 CORNER GUARD
6" = 1'-0"

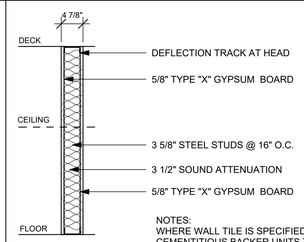
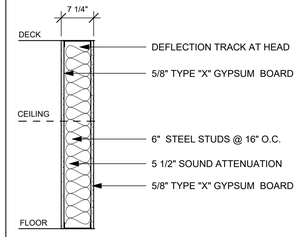
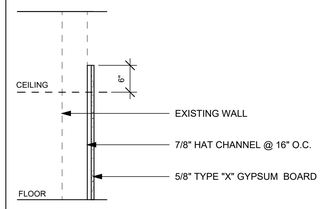
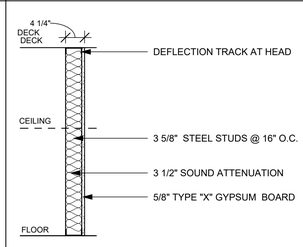


F2 ACCORDION PARTITION HEADER
1 1/2" = 1'-0"



F4 EWP-1 END WALL PROTECTION
6" = 1'-0"

INTERIOR WALL TYPES SCHEDULE

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	- -	
B1	6"		
C1	7/8"		
D5	3 5/8"		

NOTES:
WHERE WALL TILE IS SPECIFIED, USE 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF TILE IN LIEU OF 5/8" GYPSUM BOARD.

GENERAL NOTES

A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER AREAS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES.

B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.

C. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.

D. REFER TO FLOOR PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.

E. REFER TO THIS SHEET FOR TYPICAL INTERIOR PARTITIONS DETAILS.

F. ALL PARTITIONS SCHEDULED RECEIVE WALL TILE SHALL HAVE CEMENTITIOUS BACKER UNIT TO FULL HEIGHT OF WALL TILE.

G. APPLY ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF ALL GYPSUM BOARD PARTITIONS.

H. AT ALL STC-RATED ACOUSTICAL / SOUND CONTROL TYPE PARTITIONS APPLY ACOUSTICAL SEALANT AT PERIMETER OF PARTITION AND AROUND ELECTRICAL RECEPTACLES, PIPES AND & DUCT PENETRATIONS. ACOUSTICAL SEALANT SHALL BE APPLIED TO BOTH FACES OF PARTITION.

I. EXISTING BUILDING FLOOR TO FLOOR HEIGHTS FOR AREAS OF WORK:

- BASEMENT TO FIRST FLOOR: 8'-2"
- FIRST FLOOR TO ROOF: 18'-6"

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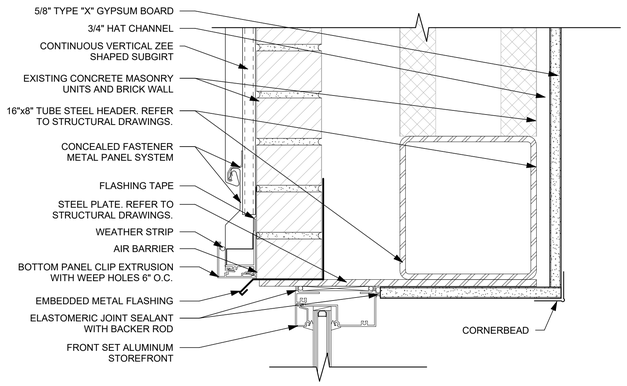
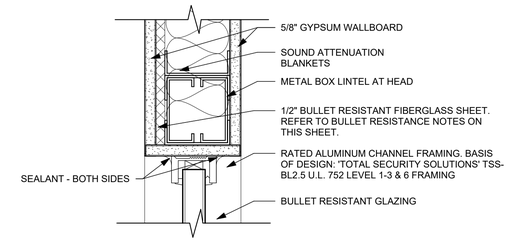
TITLE
WALL TYPES AND INTERIOR DETAILS

SHEET NO.
A0.4

11/19/2025 1:45:06 PM



B1 STOREFRONT HEAD DETAIL - METAL PANEL
3" = 1'-0"



B3 WINDOW HEAD DETAIL - BULLET RESISTANT
3" = 1'-0"

Ⓣ INDICATES TEMPERED SAFETY GLAZING

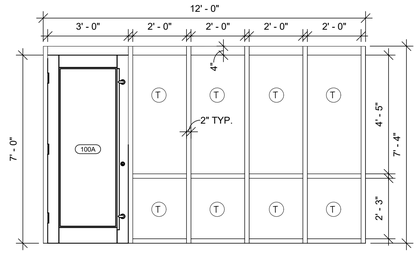
Ⓑ INDICATES BULLET RESISTANT GLAZING - SEE NOTES ON THIS SHEET

STOREFRONT SCHEDULE

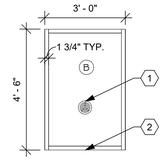
TYPE	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	JAMB	HEAD	SILL	HEAD HEIGHT	COMMENTS
SF1	12' - 0"	7' - 4"	D1/A0.5	B1/A0.5	E1/A0.5	7' - 4"	
W1	3' - 0"	4' - 6"	D3/A0.5	B3/A0.5	E3/A0.5	7' - 0"	1, 2

WINDOW REMARKS

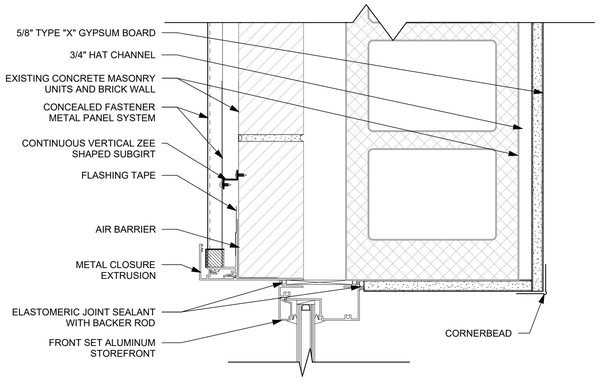
No.	REMARK
1	VOICE THRU SPEAKER INSTALLED IN WINDOW.
2	PASS THROUGH DEAL TRAY BELOW WINDOW.



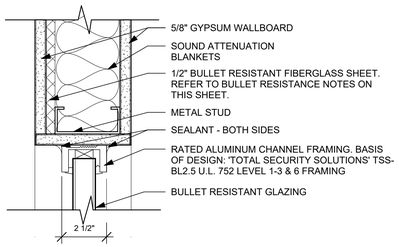
C5 STOREFRONT SF1
3/8" = 1'-0"



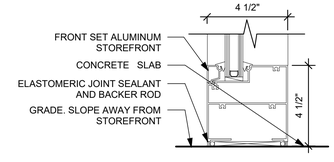
C6 WINDOW W1
3/8" = 1'-0"



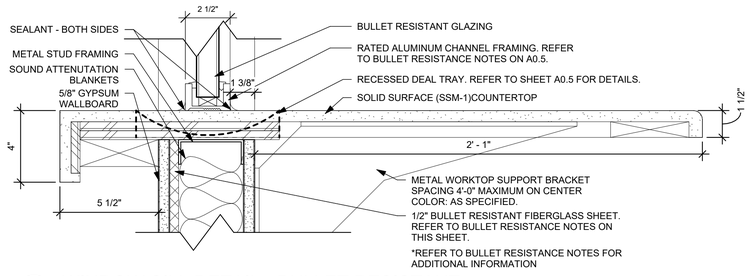
D1 STOREFRONT JAMB DETAIL - METAL PANEL
3" = 1'-0"



D3 WINDOW JAMB DETAIL - BULLET RESISTANT
3" = 1'-0"



E1 STOREFRONT SILL DETAIL
3" = 1'-0"



E3 WINDOW SILL DETAIL - BULLET RESISTANT
3" = 1'-0"

BULLET RESISTANCE NOTES

BASIS OF DESIGN FOR BULLET RESISTANT PANEL SYSTEM AT ENTRY VESTIBULE WINDOWS IS:

TOTAL SECURITY SOLUTIONS
170 NATIONAL PARK DRIVE
FOWLERVILLE, MI 48836
www.TotalSecuritySolutionsInc.com
CONTACT: SANDRA PERALTA
517-223-7807 EXT. 253
SPERALTA@TSSBULLETPROOF.COM

DESIGN BASED ON TOTAL SECURITY SOLUTIONS' BULLET RESISTANT LEVEL 3
1 1/4" LP 1250 LAMINATED GLAZING MATERIAL, CLEAR ANODIZED U-CHANNEL FRAMING, STAINLESS STEEL RECESSED DEAL TRAY AND ALL MOUNTING ACCESSORIES NEEDED FOR COMPLETE SYSTEM INSTALLATION.

LEVEL III 1/2" BULLET RESISTANT FIBERGLASS SHEET BY TOTAL SECURITY SOLUTIONS. PANELS SHOULD BE INSTALLED WITH FULL LOAD RESTING SECURELY AGAINST SLAB. USE 4" BATTEN STRIPS (CUT FROM FULL SHEETS) CENTERED ALONG ENTIRE LENGTH OF ALL SHEET JOINTS.

EQUAL SYSTEMS BY OTHER VENDORS MAY BE SUBSTITUTED WITH APPROVAL BY ARCHITECT.

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TITLE
WINDOW SCHEDULE AND DETAILS

SHEET NO.
A0.5

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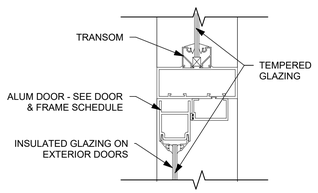
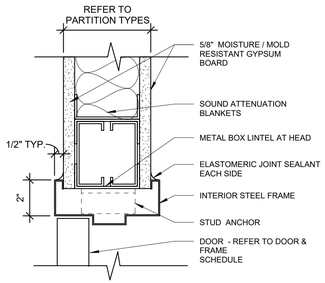
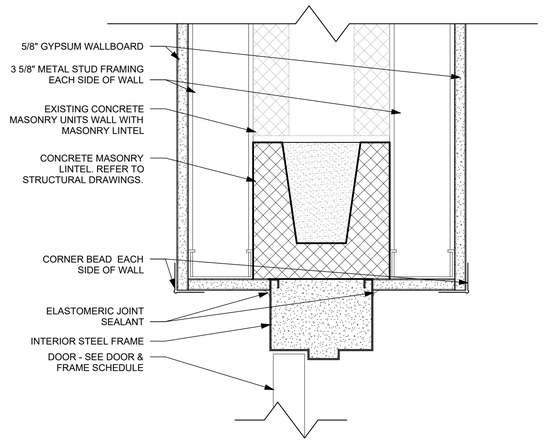


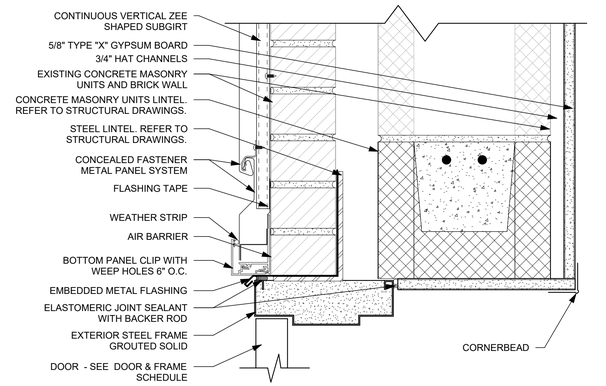
B1 HEAD DETAIL - STOREFRONT
3" = 1'-0"



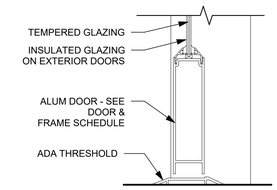
B2 HEAD DETAIL
3" = 1'-0"



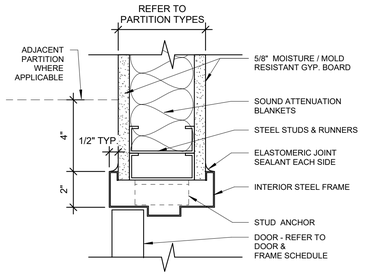
B3 EXISTING WALL - DOOR HEAD DETAIL
3" = 1'-0"



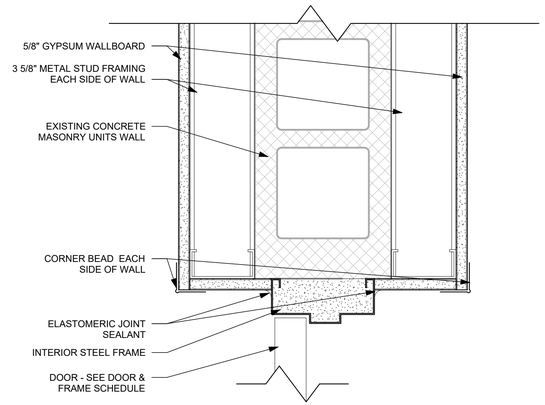
B5 DOOR HEAD DETAIL - METAL PANEL
3" = 1'-0"



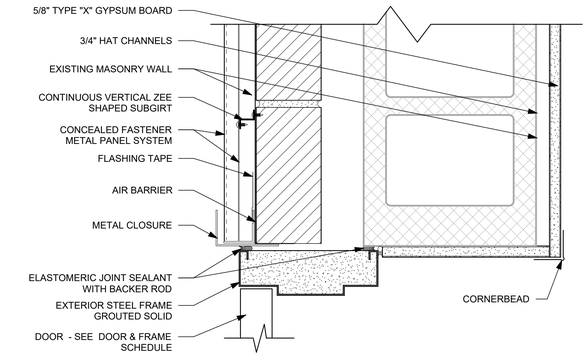
C1 SILL DETAIL - STOREFRONT
3" = 1'-0"



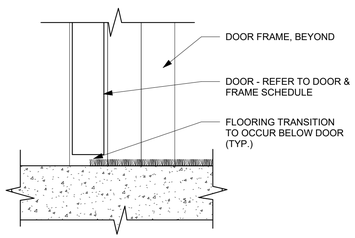
D2 JAMB DETAIL
3" = 1'-0"



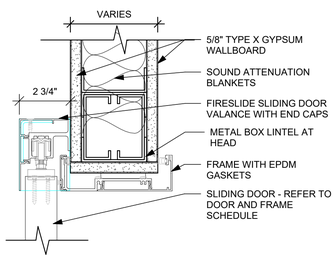
D3 EXISTING WALL - DOOR JAMB DETAIL
3" = 1'-0"



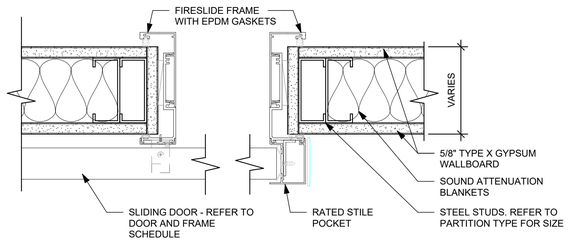
D5 DOOR JAMB DETAIL - METAL PANEL
3" = 1'-0"



E2 SILL DETAIL
3" = 1'-0"



F4 SLIDING DOOR HEAD DETAIL
3" = 1'-0"



F5 SLIDING DOOR JAMB DETAIL
3" = 1'-0"

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TITLE
DOOR DETAILS

SHEET NO.
A0.6

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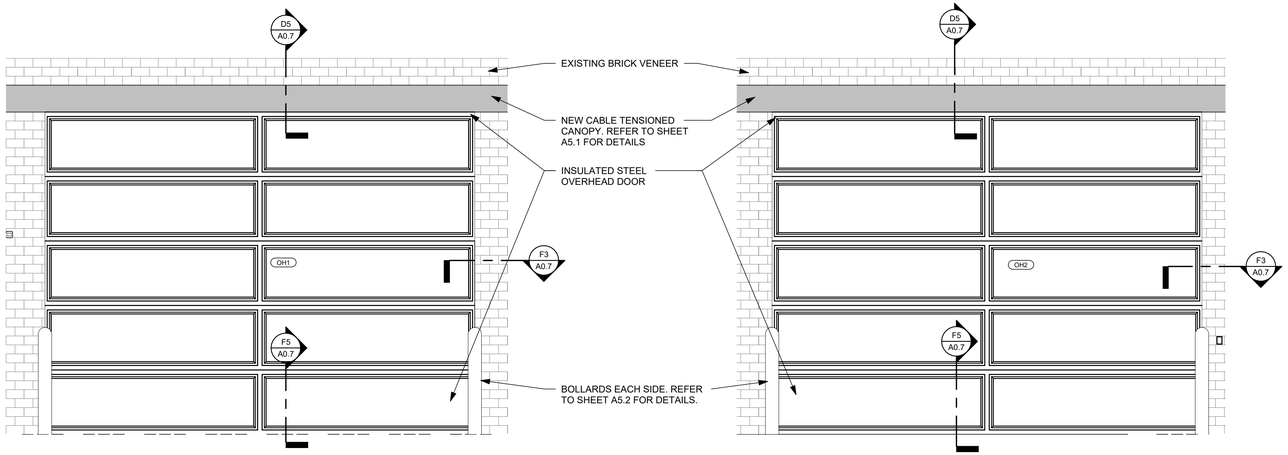
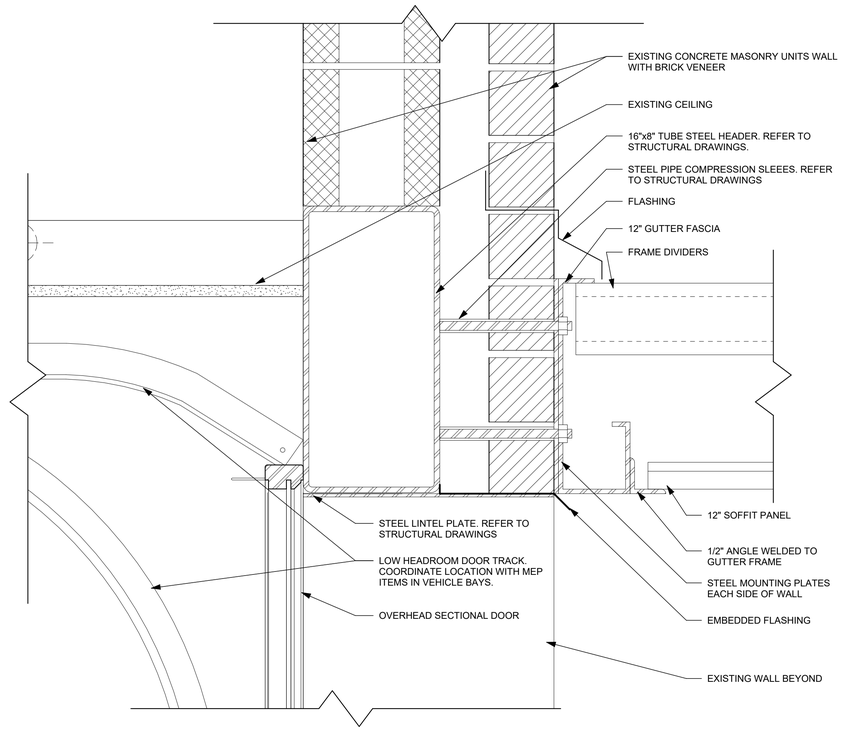
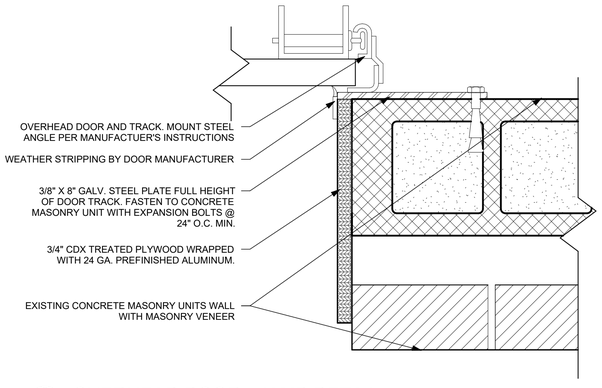


B1 OVERHEAD DOOR OH1 DETAILS
3/8" = 1'-0"

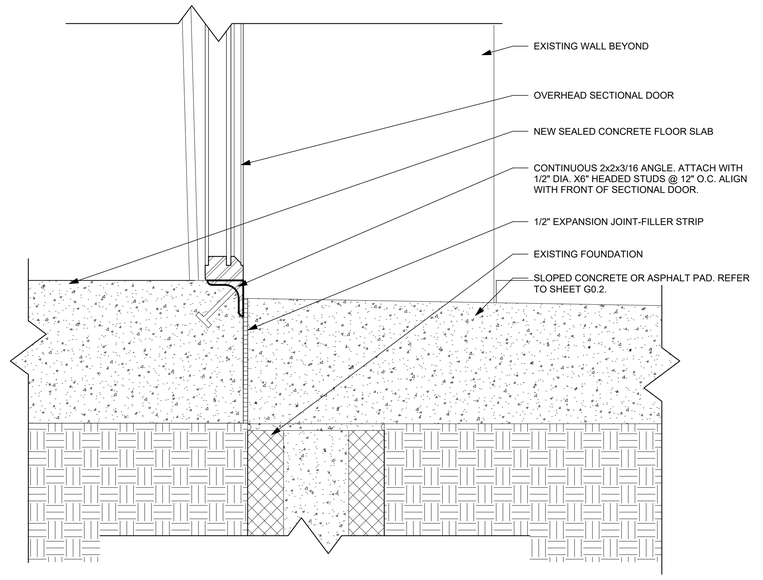
B3 OVERHEAD DOOR OH2 DETAILS
3/8" = 1'-0"



D5 OVERHEAD DOOR - HEAD DETAIL
3" = 1'-0"



F3 OVERHEAD DOOR - JAMB DETAIL
3" = 1'-0"



F5 OVERHEAD DOOR - SILL DETAIL
3" = 1'-0"

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TITLE
OVERHEAD DOOR DETAILS

SHEET NO.
A0.7

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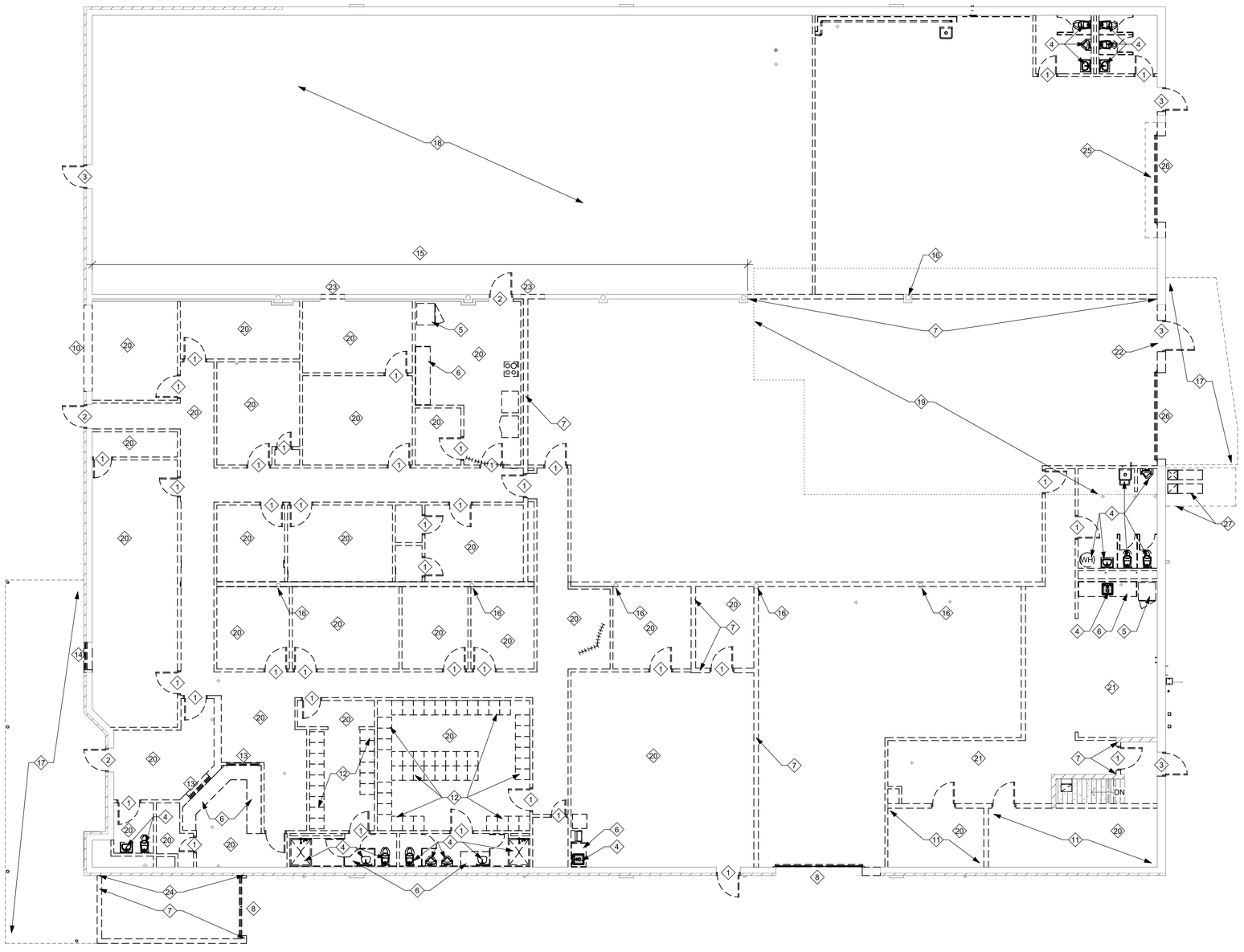

1 DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

(00) INDICATES DEMOLITION NOTE.

1 REMOVE EXISTING DOOR AND FRAME.

2 REMOVE EXISTING DOOR AND FRAME. INFILL TO MATCH EXSITING EXTERIOR WALL TYPE AND CONSTRUCTION.

3 REMOVE EXISTING DOOR AND FRAME. NEW DOOR TO BE INSTALLED IN SAME LOCATION.

4 REMOVE EXISTING PLUMBING FIXTURES. REFER TO PLUMBING DRAWINGS.

5 REMOVE REFIRGERATOR. TURN OVER TO OWNER.

6 REMOVE EXISTING CASEWORK.

7 REMOVE EXISTING BLOCK WALL.

8 REMOVE EXISTING OVERHEAD DOOR. INFILL TO MATCH EXISTING EXTERIOR WALL CONSTRUCTION.

10 REMOVE PORTION OF EXISTING WALL FOR NEW STOREFRONT.

11 REMOVE EXISTING FREEZER.

12 REMOVE EXISTING LOCKERS. TURN OVER TO OWNER.

13 REMOVE EXISTING WINDOW.

14 REMOVE EXISTING WINDOW. INFILL TO MATCH EXSITING EXTERIOR WALL TYPE AND CONSTRUCTION.

15 PRESERVE EXISTING BLOCK WALL AND COLUMNS.

16 PRESERVE EXISTING COLUMN.

17 REMOVE EXISTING CANOPY ABOVE AND SUPPORT COLUMNS.

18 PRESERVE RUBBER FLOOR MATS AND TURN OVER TO OWNER. NEW RUBBER FLOORING INSTALLED DURING CONSTRUCTION. REFER TO FINISH SCHEDULE.

19 REMOVE EXISTING CONCRETE TO EXTENTS OF NEW VEHICLE BAY. PREP FOR NEW CONCRETE FLOOR.

20 REMOVE EXISTING FLOOR FINISH. CLEAN AND PREPARE SLAB BELOW FOR NEW FLOORING MATERIAL. REFER TO ASBESTOS REPORT FOR ABATEMENT AREAS.

21 CLEAN AND GRIND EXISTING CONCRETE FLOOR. PREPARE FOR NEW SEALED FINISH.

22 REPAIR AND LEVEL EXISTING DOOR THRESHOLD.

23 REMOVE PORTION OF EXISTING WALL FOR NEW DOOR.

24 REPAIR BRICK EXTERIOR AFTER DEMOLITION.

25 CUT OPENING FOR NEW TRENCH DRAIN IN EXISTING CONCRETE.

26 REMOVE EXISTING OVERHEAD DOOR AND PORTION OF EXISTING WALL FOR NEW OVERHEAD DOOR DURING CONSTRUCTION. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.

27 REMOVE EXISTING RTU AND FENCE. MAINTAIN EXISTING CONCRETE PAD.

GENERAL NOTES

A. PRIOR TO DEMOLITION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.

B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.

C. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH. REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. PRIOR TO DISPOSAL OF EXISTING EQUIPMENT AND/OR FIXTURES COORDINATE WITH OWNER.

F. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM JOB SITE IN A LEGAL AND TIMELY MANNER. LOCATION(S) OF JOBSITE DUMPSTER SHALL BE COORDINATED WITH OWNER PRIOR TO START OF CONSTRUCTION.

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TITLE
FIRST FLOOR DEMOLITION PLAN

SHEET NO.
A1.1

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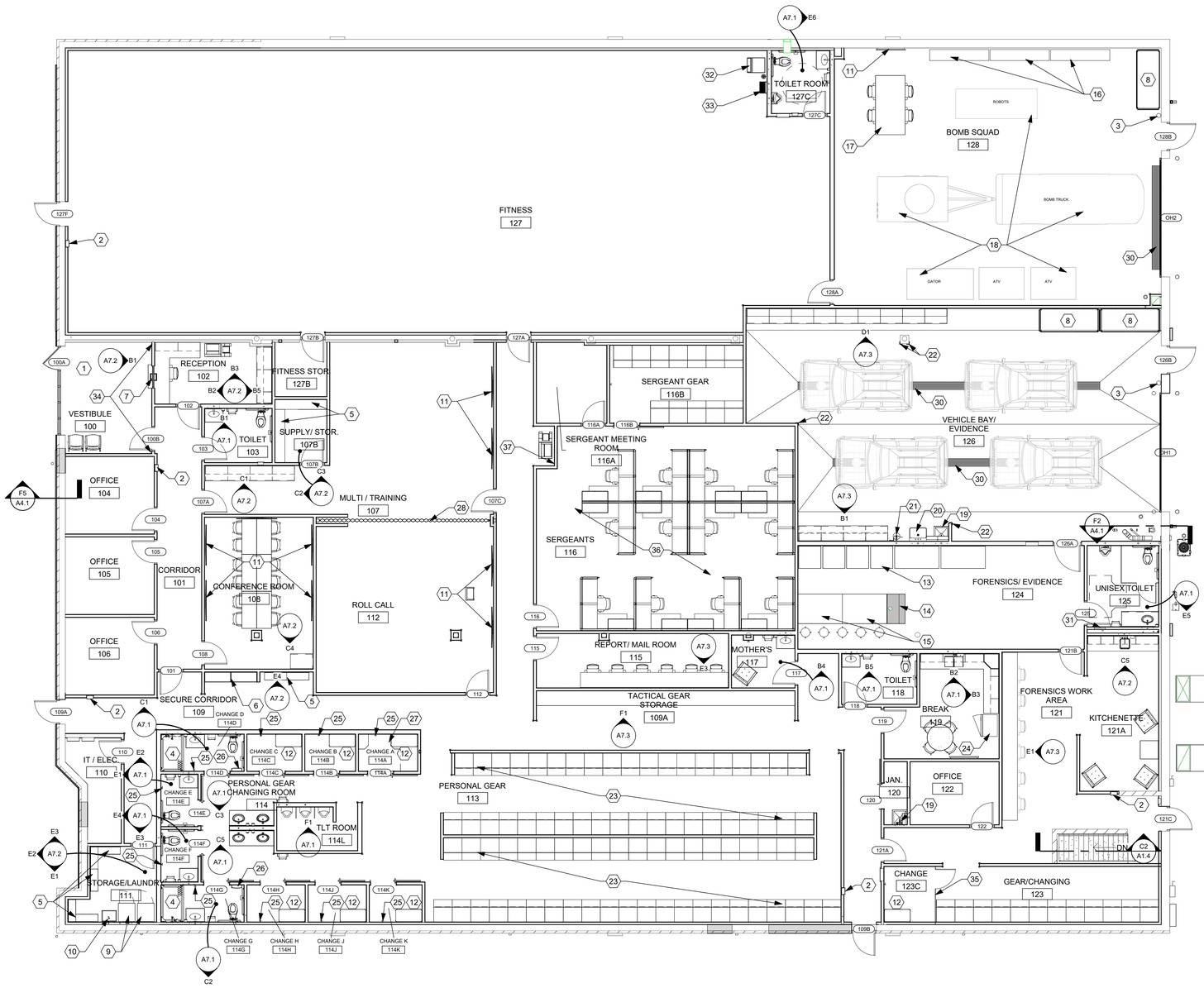

1 FIRST FLOOR REFERENCE PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 SAFE ROOM. INSTALL EMERGENCY LOCK AND 911 CALL BOX.

2 SEMI-RECESSED FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1.

3 WALL HUNG FIRE EXTINGUISHER. OWNER FURNISHED, CONTRACTOR INSTALLED. COORDINATE EXACT LOCATION WITH WALL MOUNTED PME ITEMS.

4 SHOWER PAN RECESSED IN CONCRETE. SHOWER PAN ACTS AS FLOOR DRAIN FOR ROOM.

5 WALL MOUNTED STORAGE SHELVES. REFER TO CASEWORK DETAILS ON A8.1.

6 MOBILE FIREARM SECURED LOCKERS. REFER TO INTERIOR ELEVATIONS FOR DETAILS.

7 RECESSED PASS THROUGH DEAL TRAY. REFER TO SHEET A8.1 FOR DETAILS.

8 STORAGE SHELVES WITH SECURE STORAGE CAGES. 8' WIDE x 10' TALL x 3' DEEP.

9 WASHER AND DRYER. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS.

10 LAUNDRY SINK. REFER TO PLUMBING DRAWINGS.

11 WALL MOUNTED TV.

12 ADA CHANGING BENCH 20" x 42". 17 1/2" TALL.

13 EVIDENCE DRYERS BY OWNER.

14 VENTILATED WORKSTATION BY OWNER.

15 (2) 72"x48" STAINLESS STEEL EVIDENCE PROCESSING TABLES.

16 STORAGE CABINETS BY OWNER.

17 TRAINING TABLE BY OWNER.

18 OWNER'S VEHICLES. SHOWN FOR REFERENCE ONLY.

19 MOP SINK WITH MOP HOLDERS ABOVE. REFER TO PLUMBING DRAWINGS.

20 HANDWASH SINK. REFER TO PLUMBING DRAWINGS.

21 WALL MOUNTED EYEWASH STATION. REFER TO PLUMBING DRAWINGS.

22 STEEL IMPACT PROTECTION CORNER GUARD. REFER TO FINISH FLOOR PLAN SHEET A9.1.

23 GEAR LOCKERS WITH POWER HOOKUPS. COORDINATE WITH ELECTRICAL DRAWINGS.

24 REFRIGERATOR BY OWNER.

25 WALL MOUNTED ROBE HOOK. REFER TO SPECIFICATIONS.

26 WALL MOUNTED WASTE DISPENSER. OFCI.

27 ACCESSIBLE TURNING "T-SHAPED" SPACE.

28 ACCORDION FOLDING PARTITION. BASIS OF DESIGN SOUNDMASTER SM8. 9'-0" TALL. REFER TO SHEET A0.4 FOR DETAILS. REFER TO STRUCTURAL DRAWINGS FOR COLUMN INFORMATION.

29 GRADE MOUNTED RTU. REFER TO MECHANICAL DRAWINGS.

30 TRENCH DRAIN. REFER TO PLUMBING DRAWINGS.

31 ACCESS PANEL TO CHASE.

32 ICE MACHINE BY OWNER.

33 WALL MOUNTED BOTTLE FILLER.

34 BULLET RESISTANT FIBERGLASS PANELS THIS WALL. REFER TO BULLET RESISTANCE NOTES ON SHEET A0.5.

35 PHENOLIC PARTITION AND DOOR.

36 SYSTEMS FURNITURE IS BY OWNER AND SHOWN FOR REFERENCE ONLY.

37 ALCOVE FOR OWNERS COPIER.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS ARE TO BE BRACED TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO INTERIOR ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE AND LANDSCAPE PLANS.

F. REFER TO FINISHED FLOOR PLAN FOR CORNER GUARD AND END WALL GUARD LOCATIONS.

G. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

I. FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY.

J. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

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TITLE
FIRST FLOOR REFERENCE PLAN

SHEET NO.
A1.2

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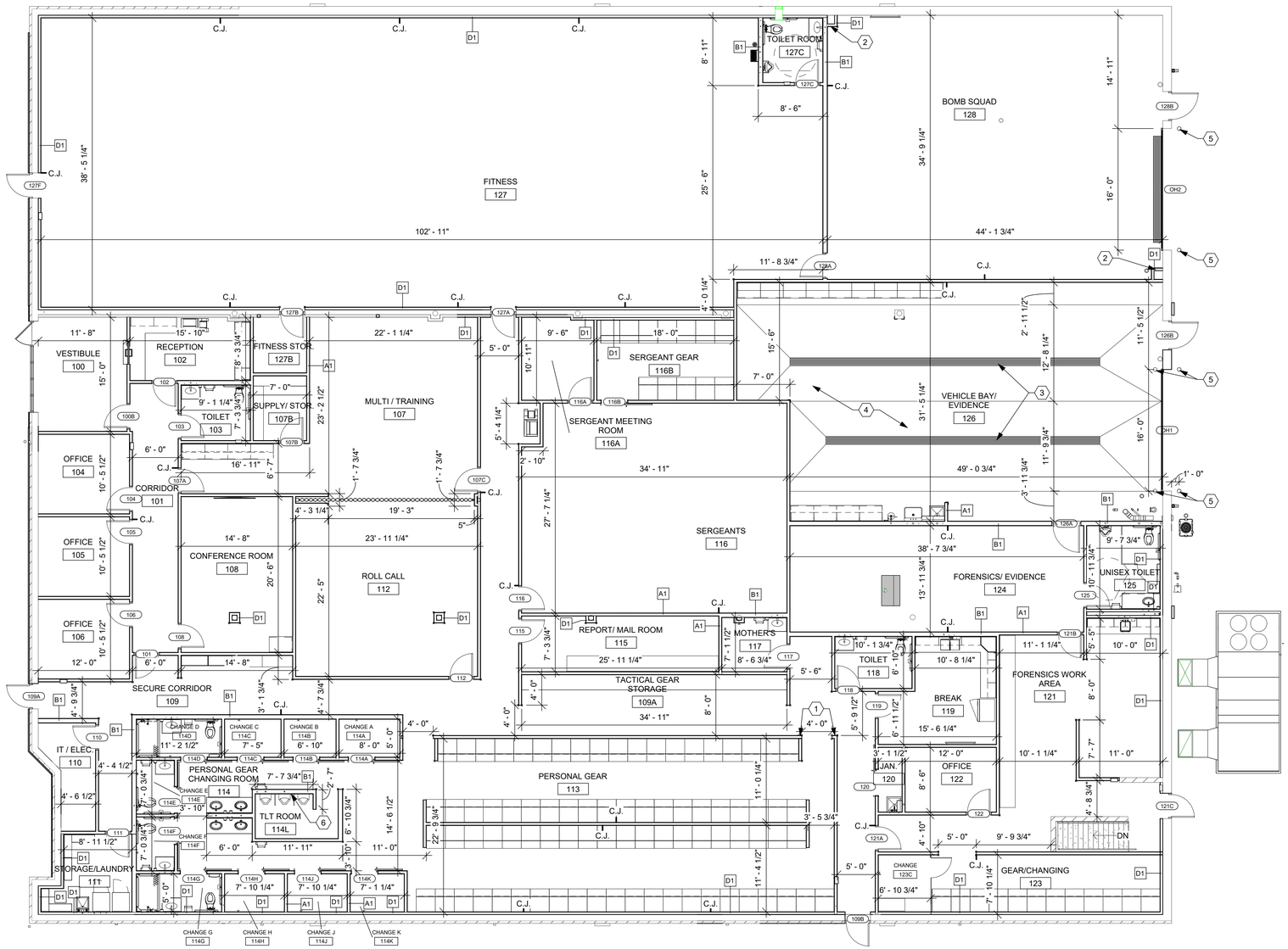

1 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ALIGN.

2 18"x18" CHASE.

3 SLOPE CONCRETE IN BAYS TO TRENCH DRAINS. SET DRAINS 1" BELOW FINISHED FLOOR ELEVATION. REFER TO PLUMBING DRAWINGS.

4 SLOPED CONCRETE SLAB REFER TO STRUCTURAL DRAWINGS.

5 STEEL PIPE BOLLARD 1'-0" OFF EXISTING WALL. REFER TO SHEET A5.2 FOR DETAILS.

6 WET WALL TILE (PTW-1) THIS WALL REFER TO FINISH SCHEDULE FOR MORE INFORMATION..

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS ARE TO BE BRACED TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO INTERIOR ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE AND LANDSCAPE PLANS.

F. REFER TO FINISHED FLOOR PLAN FOR CORNER GUARD AND END WALL GUARD LOCATIONS.

G. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

I. FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY.

J. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

K. C.J. REPRESENTS DRYWALL CONTROL JOINT LOCATION. 30'-0" O.C. MAX. ALIGN WITH DOOR AND WINDOW FRAMES WHERE APPLICABLE.

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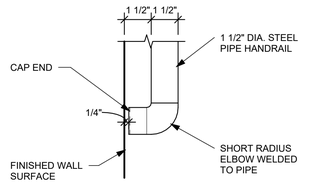
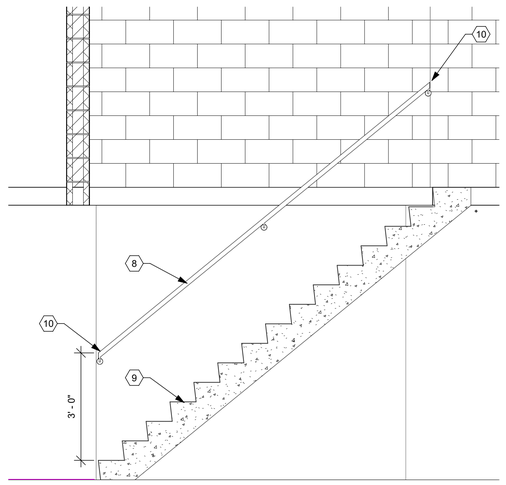
TITLE
FIRST FLOOR DIMENSION PLAN

SHEET NO.
A1.3

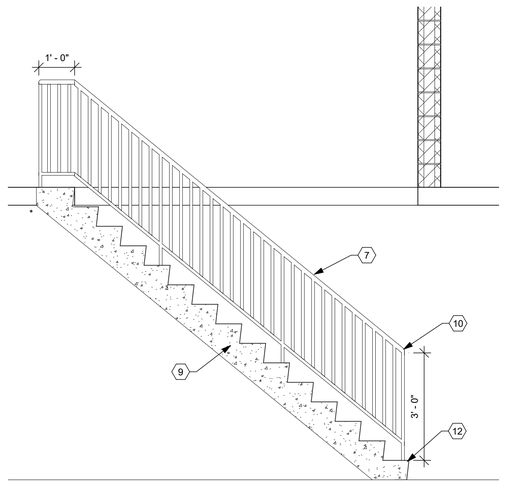
11/19/2025 1:45:23 PM



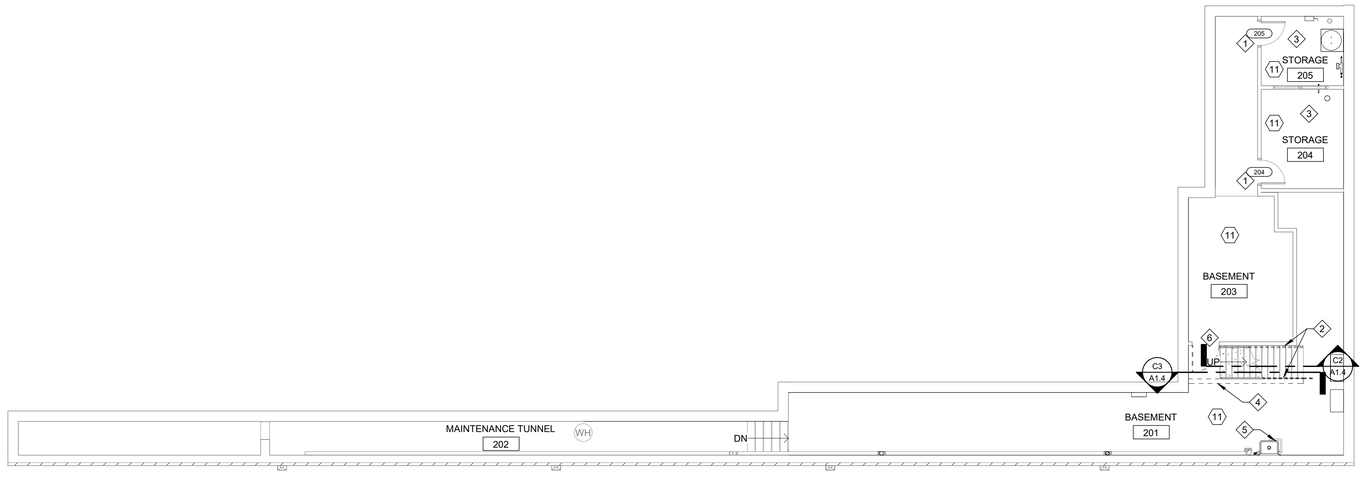
C1 HAND RAIL DETAILS
3" = 1'-0"



C2 STAIR SECTION
1/2" = 1'-0"



C3 STAIR SECTION
1/2" = 1'-0"



F1 BASEMENT REFERENCE FLOOR PLAN
1/8" = 1'-0"

DEMOLITION NOTES

00 INDICATES DEMOLITION NOTE.

1. REMOVE EXISTING DOOR AND FRAME. NEW DOOR AND FRAME TO BE PLACED IN EXISTING OPENING LOCATION. MATCH EXISTING DIMENSIONS.
2. REMOVE EXISTING STAIR RAILING.
3. POWERWASH AND PRESERVE EXISTING TILE FLOOR.
4. REMOVE EXISTING WALL AND DOOR.
5. REMOVE AND REPLACE EXISTING MOP SINK. REPAIR CONCRETE FLOOR. REFER TO PLUMBING DRAWINGS.
6. REMOVE EXISTING DOOR.

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

7 1 1/2" PIPE HANDRAILING WITH 3/4" DIAMETER STEEL PICKETS. SPACING BETWEEN PICKETS <4 3/4" O.C. BALUSTERS AT 4'-0" O.C. MAX.

8 1/2" PIPE HANDRAILING WITH WALL BRACKETS AT 4'-0" O.C. RETURN TO WALL AT ENDS. REFER TO HANDRAIL DETAILS ON THIS SHEET.

9 EXISTING STAIRS. NO CHANGES.

10 PER ICC A117.1 505.10 EXCEPTION 3: "FULL EXTENSIONS OF HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS DUE TO PLAN CONFIGURATION." FULL EXTENSIONS OF HANDRAILS WOULD RESTRICT CLEAR AREA OF LANDING AT BASE TO LESS THAN 30".

11 CLEAN BASEMENT ROOMS AND PAINT WALLS AND CEILINGS TO MATCH P-1.

12 REPAIR CONCRETE STAIRS WHERE OLD BALLUSTERS ARE REMOVED. DRILL SPACE FOR NEW BALLUSTERS.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS ARE TO BE BRACED TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO INTERIOR ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE AND LANDSCAPE PLANS.

F. REFER TO FINISHED FLOOR PLAN FOR CORNER GUARD AND END WALL GUARD LOCATIONS.

G. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

I. FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY.

J. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

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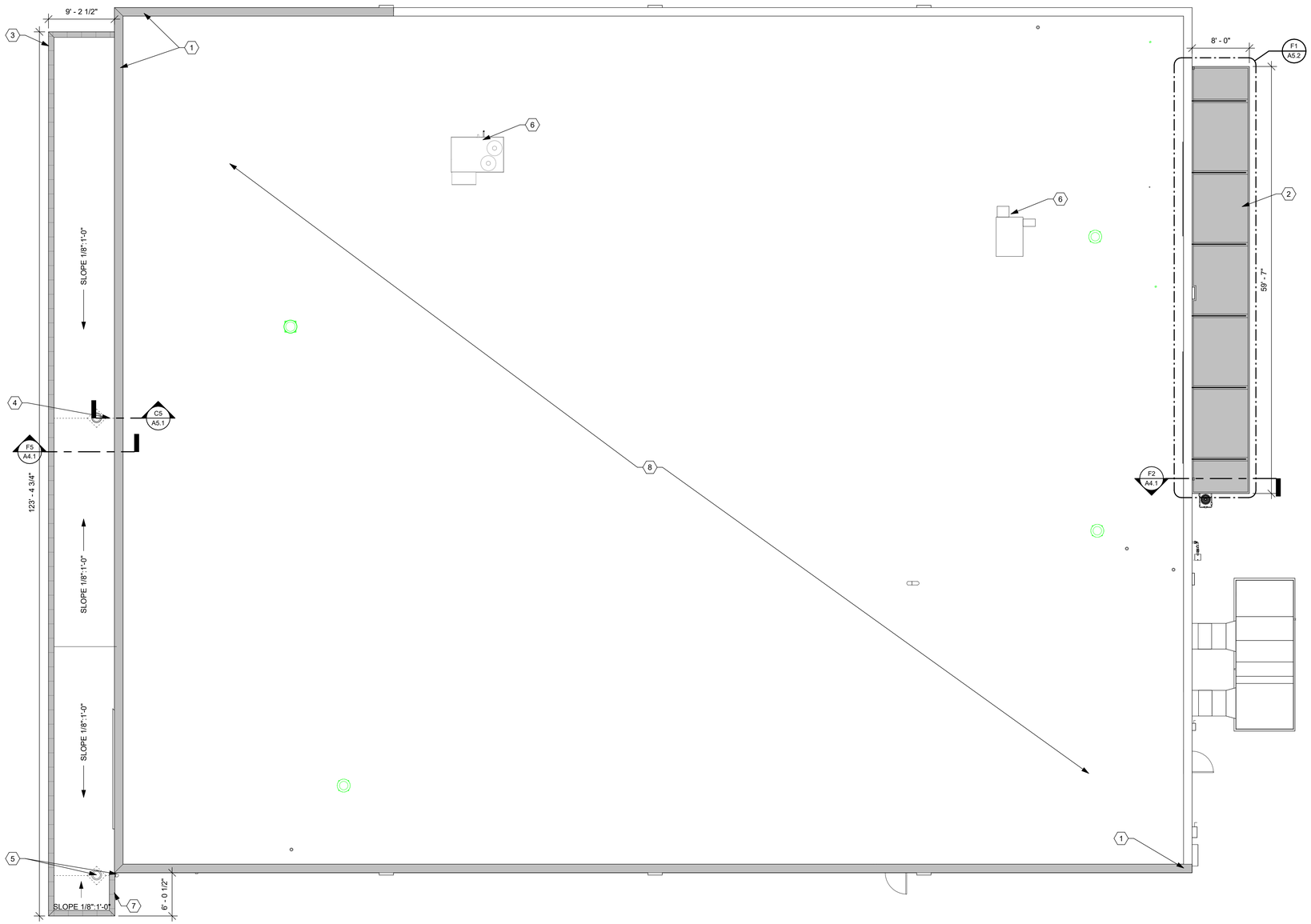
TITLE
BASEMENT REFERENCE PLAN

SHEET NO.
A1.4

11/19/2025 1:45:24 PM



1 ROOF PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 REMOVE AND REPLACE EXISTING COPING WITH .040 ALUMINUM. MATCH COLOR WITH NEW CANOPY.

2 NEW CANOPY SUPPORTED BY HANGER RODS. REFER TO SHEET A5.1 AND STRUCTURAL DRAWINGS FOR DETAILS. BASIS OF DESIGN: CITYSCAPES ARCHITECTURAL INNOVATIONS AWNING.

3 NEW METAL PANEL CANOPY. REFER TO SHEET A5.1 FOR DETAILS.

4 NEW DOWNSPOUT. TIE INTO EXISTING CATCH BASIN WITH NEW STORM LINE. REFER TO SITE PLAN G0.2.

5 NEW DOWNSPOUT. TIE INTO EXISTING DOWNSPOUT STORM LINE.

6 REFER TO MECHANICAL PLANS FOR RETAINED AND NEW ROOF TOP UNITS AND CURBS.

7 THROUGH WALL SCUPPER SECONDARY OUTLET.

8 EXISTING ROOF. PRESERVE AND PREVENT DAMAGE DURING INSTALLATION OF NEW EQUIPMENT.

GENERAL NOTES

A. COORDINATE ROOF PENETRATIONS WITH PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS.

B. ALL GUTTERS AND FLAT PORTIONS OF ROOFS TO BE SLOPED AT 1/8" = 1' - 0" MIN.

C. REPAIR ROOF AT LOCATIONS OF NEW CURB INSTALLS.

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TITLE
ROOF PLAN

SHEET NO.
A1.6

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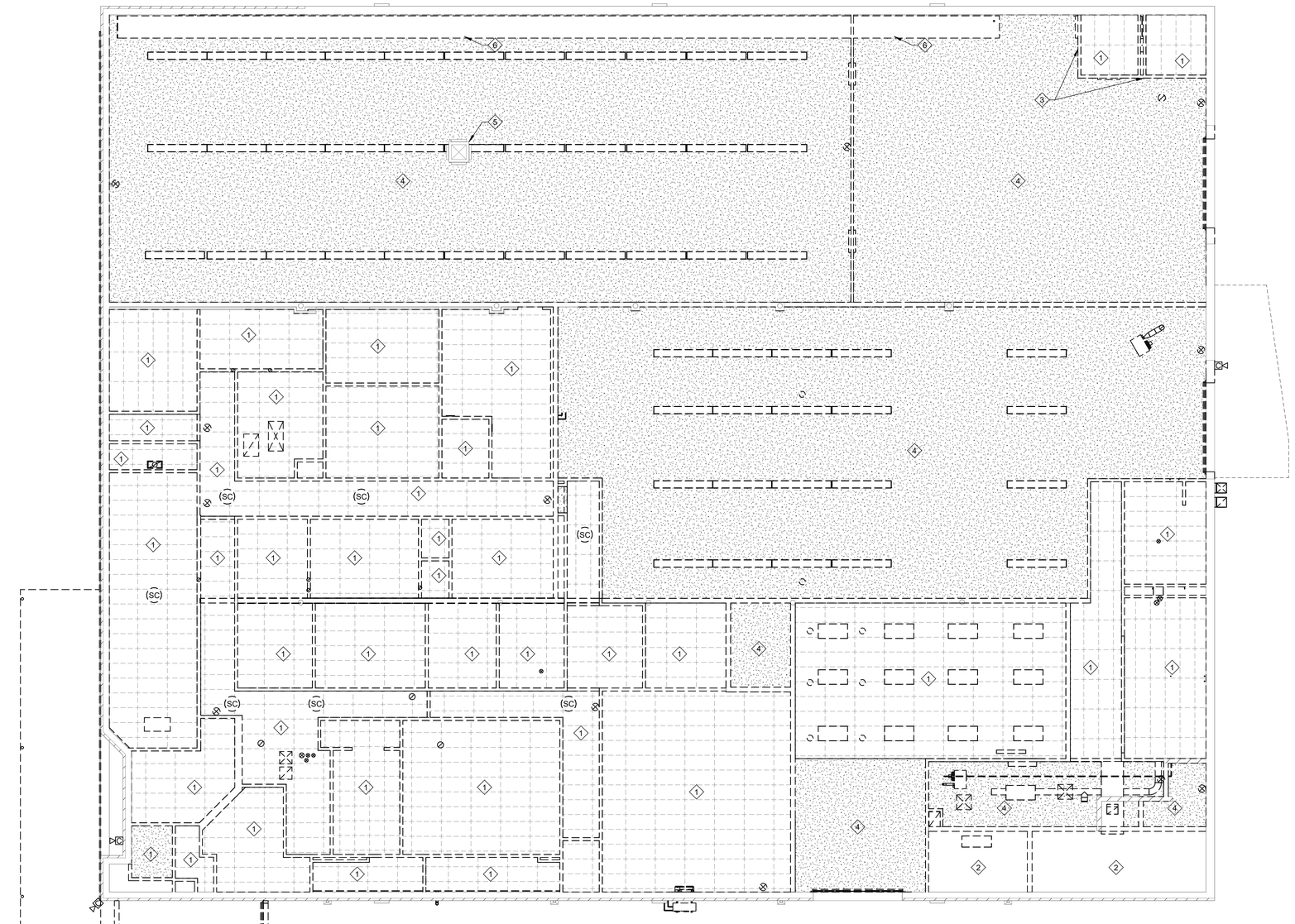

1 FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

(00) INDICATES DEMOLITION NOTE.

1. REMOVE EXISTING CEILING AND GRID.
2. REMOVE EXISTING FREEZER.
3. REMOVE EXISTING WALLS AND FRAMING TO CEILING ABOVE.
4. PRESERVE AND REPAIR EXISTING GYPSUM CEILING. REMOVE EXISTING FIXTURES PER MECHANICAL ELECTRICAL AND PLUMBING DRAWINGS. PAINT.
5. PRESERVE EXISTING MECHANICAL UNIT.
6. REMOVE EXISTING MECHANICAL CEILING CHASE. EXTEND EXISTING DRYWALL CEILING.

GENERAL NOTES

A. PRIOR TO DEMOLITION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.

B. PRIOR TO DEMOLITION, VERIFY THAT EXISTING UTILITIES HAVE BEEN DISCONNECTED AND CAPPED, AND TEMPORARY SHORING IS IN PLACE TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION.

C. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

D. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH. REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. PRIOR TO DISPOSAL OF EXISTING EQUIPMENT AND/OR FIXTURES COORDINATE WITH OWNER.

F. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM JOB SITE IN A LEGAL AND TIMELY MANNER. LOCATION(S) OF JOBSITE DUMPSTER SHALL BE COORDINATED WITH OWNER PRIOR TO START OF CONSTRUCTION.

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TITLE
REFLECTED CEILING DEMOLITION PLAN

SHEET NO.
A2.1

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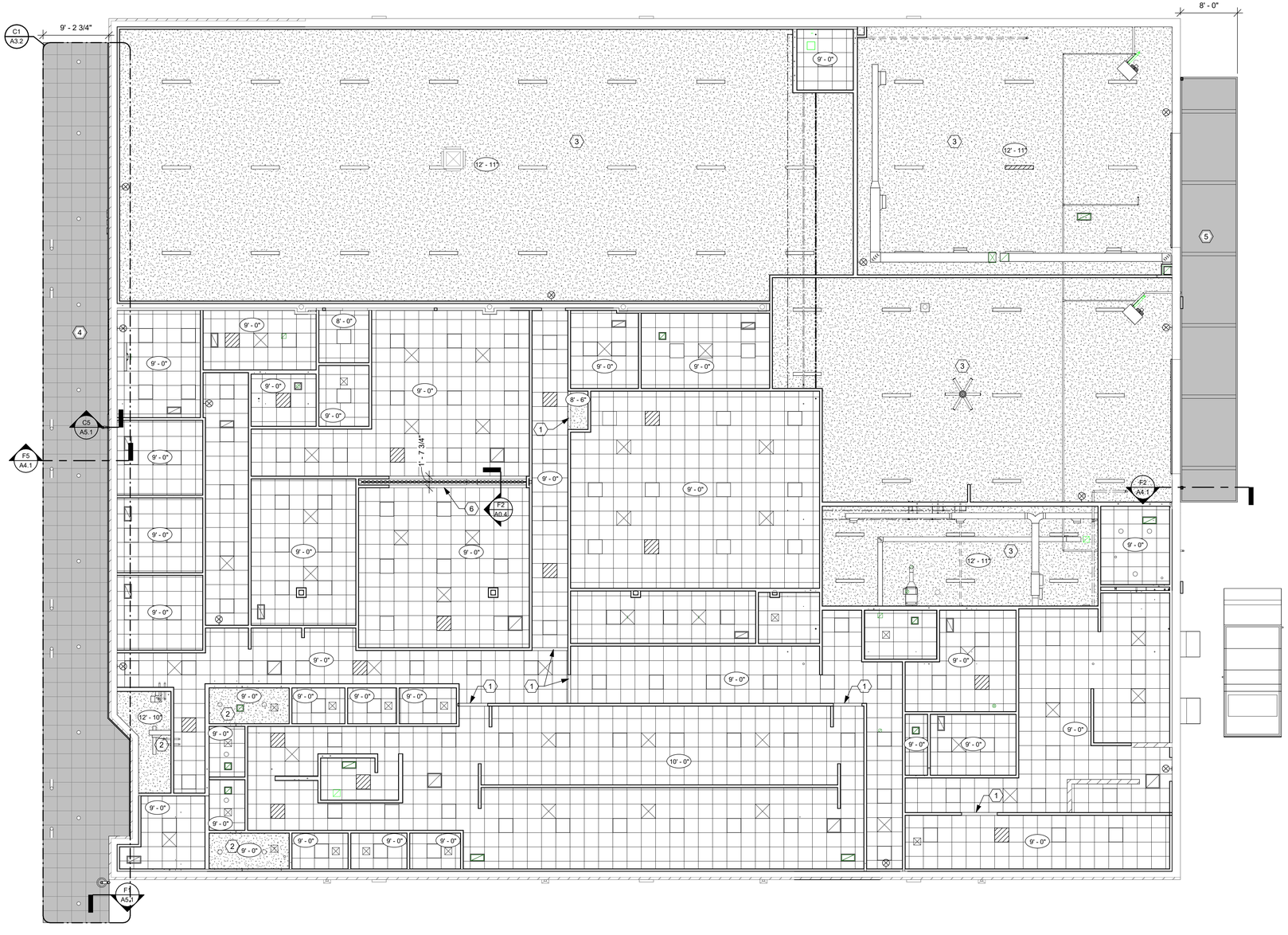

1 FIRST FLOOR REFELECTED CEILING PLAN - NEW WORK
1/8" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1 FRAMED BULKHEAD AT 8'-6" AFF.

2 FRAMED GYPSUM CEILING.

3 EXISTING GYPSUM CEILING TO BE PAINTED.

4 METAL PANEL CANOPY ABOVE. REFER TO SHEET A5.1 AND STRUCTURAL DRAWINGS FOR DETAILS.

5 CABLE SUSPENDED CANOPY ABOVE. REFER TO SHEET A5.1 AND STRUCTURAL DRAWINGS FOR DETAILS.

6 ACCORDION FOLDING PARTITION. BASIS OF DESIGN SOUNDMASTER SM8. 9'-0" TALL. REFER TO SHEET A0.4 FOR DETAILS. REFER TO STRUCTURAL DRAWINGS FOR COLUMN AND BEAM INFORMATION.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS ARE TO BE BRACED TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE AND LANDSCAPE PLANS.

F. REFER TO FINISHED FLOOR PLAN FOR CORNER GUARD AND END WALL GUARD LOCATIONS.

G. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

I. FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY.

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TITLE
REFLECTED CEILING PLAN

SHEET NO.
A2.2

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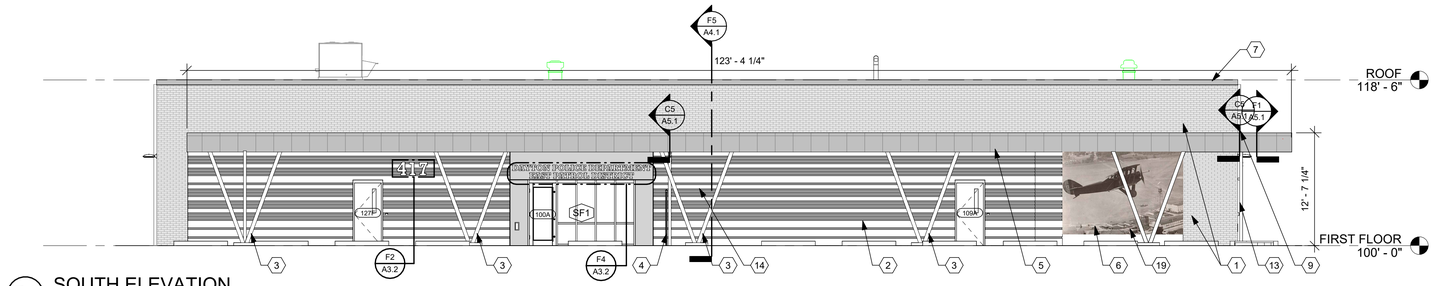
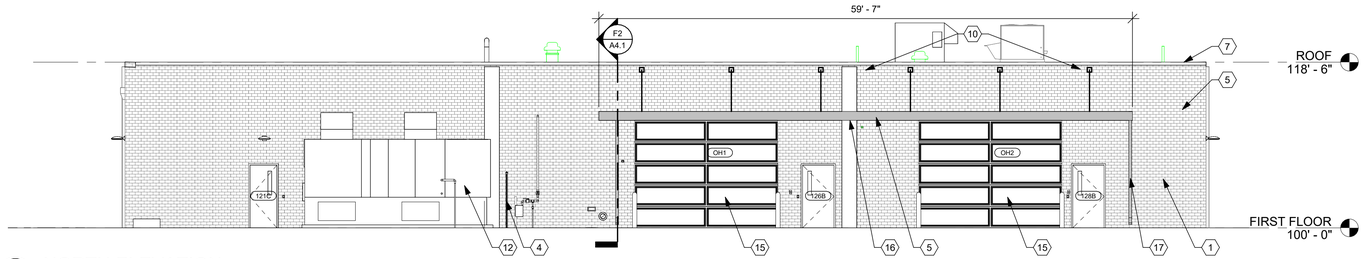
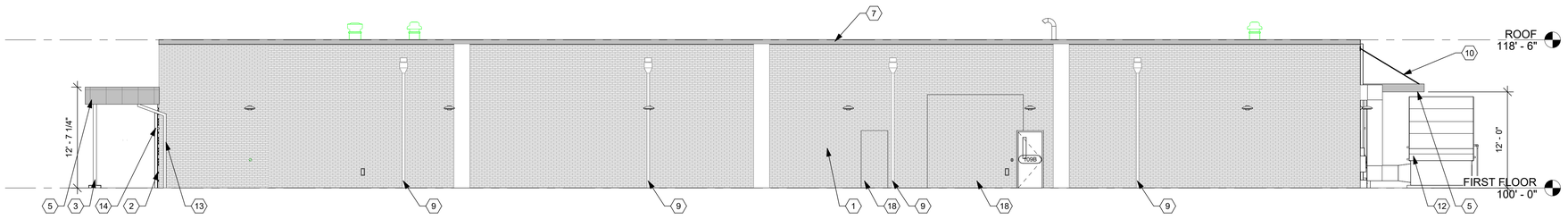


B1 SOUTH ELEVATION
1/8" = 1'-0"



D1 NORTH ELEVATION
1/8" = 1'-0"



E1 EAST ELEVATION
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 EXISTING BRICK FACADE.

2 CONCEALED FASTENER METAL WALL PANELS.

3 STRUCTURAL "V" COLUMN LOCATION FOR ROOF OVERHANG. REFER TO STRUCTURAL DRAWINGS.

4 SECURITY FENCE. REFER TO SITE PLAN FOR DETAILS.

5 METAL PANEL CANOPY. REFER TO EXTERIOR DETAILS FOR INFORMATION.

6 PAINTED MURAL ART. COORDINATE IMAGE WITH ARCHITECT.

7 NEW METAL COPING CAP. REPLACE EXISTING.

9 EXISTING DOWNSPOUT AND SCUPPER.

10 HANGER ROD. COORDINATE WITH CANOPY MANUFACTURER FOR ATTACHMENT TO BUILDING. REFER TO STRUCTURAL DRAWINGS.

12 RTU. REFER TO MECHANICAL DRAWINGS FOR DETAILS.

13 TIE NEW DOWNSPOUT INTO EXISTING STORM LINE.

14 NEW DOWNSPOUT. TIE INTO EXISTING CATCH BASIN WITH NEW TRENCH. REFER TO SITE PLAN G0.2.

15 NEW OVERHEAD DOOR. REFER TO SHEET A0.7 FOR DETAILS.

16 CUT CANOPY AROUND EXISTING PILASTER.

17 NEW 3"X 4" DOWNSPOUT. SHEET DRAIN ONTO GRADE.

18 INFILL OPENING WITH MASONRY BLOCK AND BRICK TO MATCH THE EXISTING CONSTRUCTION.

19 TOOTH NEW BRICK IN TO OLD WALL WHERE FILLING IN OPENING.

GENERAL NOTES

A. INFILL DOOR AND WINDOW OPENINGS WITH BRICK TO MATCH EXISTING.

B. "CJ" = MASONRY CONTROL JOINT.

C. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

D. ALL PENETRATIONS THROUGH ROOF TO BE PAINTED TO MATCH ROOF COLOR.

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TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.1

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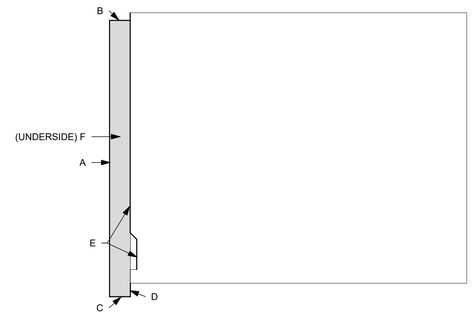
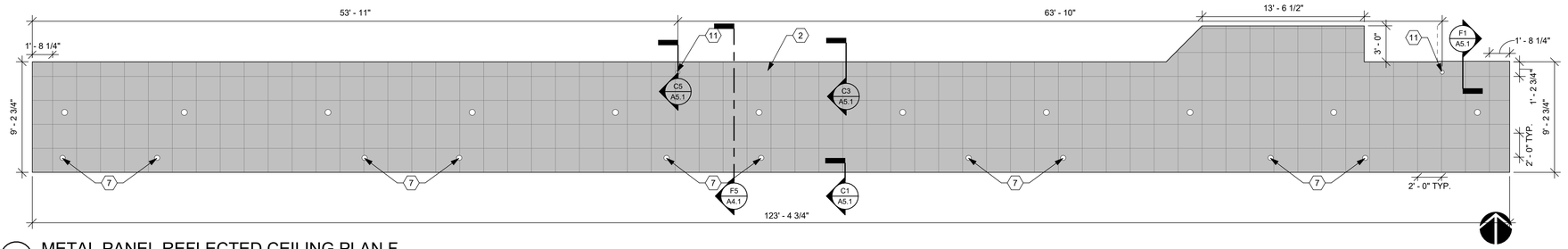
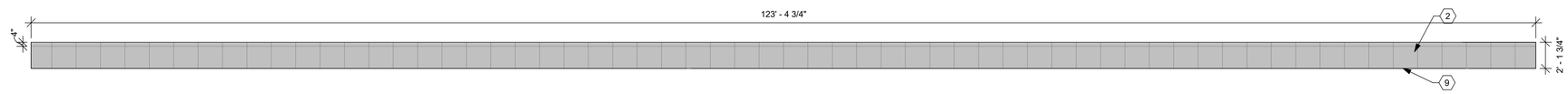


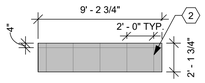
B5 METAL PANEL KEY PLAN
1/32" = 1'-0"



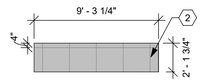
C1 METAL PANEL REFLECTED CEILING PLAN F
3/16" = 1'-0"



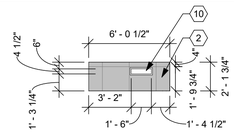
D1 METAL PANEL ELEVATION A
3/16" = 1'-0"



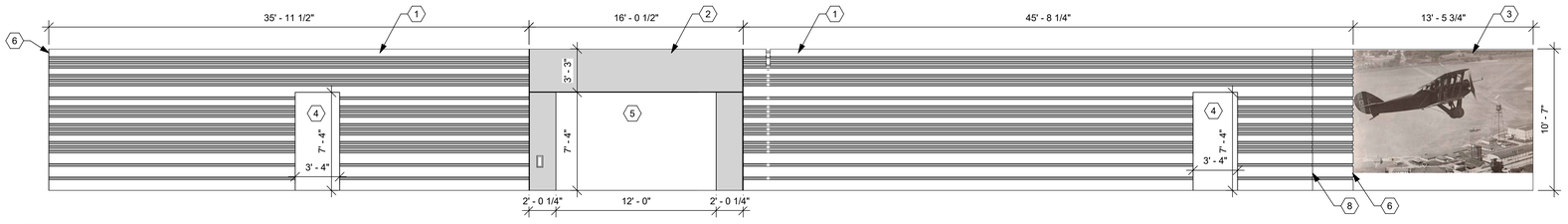
D3 METAL PANEL ELEVATION B
3/16" = 1'-0"



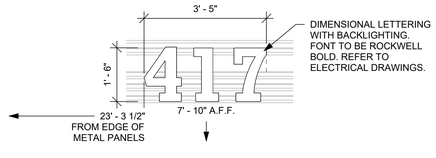
D4 METAL PANEL ELEVATION C
3/16" = 1'-0"



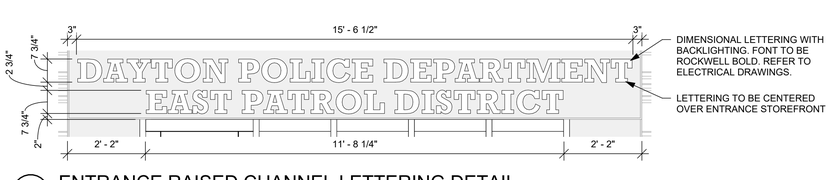
D5 METAL PANEL ELEVATION D
3/16" = 1'-0"



E1 METAL PANEL ELEVATION E
3/16" = 1'-0"



F2 NUMBER RAISED CHANNEL LETTERING DETAIL
1/2" = 1'-0"



F4 ENTRANCE RAISED CHANNEL LETTERING DETAIL
1/2" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 CONCEALED FASTENER METAL PANELS. REFER TO METAL PANEL LAYOUT KEY.

2 ALUMINUM COMPOSITE PANELS.

3 PAINTED MURAL ON EXISTING MASONRY. COORDINATE IMAGE WITH ARCHITECT.

4 OPENING IN METAL PANELS FOR DOOR.

5 OPENING IN METAL PANELS FOR STOREFRONT.

6 TERMINATE AT WALL WITH MANUFACTURER'S EXTRUSION.

7 OPENINGS FOR COLUMNS. FIELD VERIFY LOCATIONS.

8 BEND AT OUTSIDE CORNER.

9 BOTTOM EDGE OF PANEL TURNS CORNER TO UNDERSIDE.

10 OVERFLOW SCUPPER. REFER TO A5.1 FOR DETAILS. COLOR TO MATCH METAL PANEL SYSTEM.

11 OPENING FOR DOWNSPOUT. FIELD VERIFY LOCATION.

GENERAL NOTES

A. BASIS OF DESIGN FOR CONCEALED FASTENER METAL PANELS: CENTRIA CONCEPT SERIES RAINSCREEN CONCEALED FASTENER PANELS. HORIZONTAL. OVERLAY EDGES WITH END LAP JOINT.

B. BASIS OF DESIGN FOR COMPOSITE METAL PANELS: CITADEL ENVELOPE 2000 REVEAL (RV). REVEAL MOLDINGS. OUTSIDE CORNER AT SOFFIT TURNS.

C. PANELS STYLE NUMBERS AND SIZES ARE AS SHOWN BELOW.

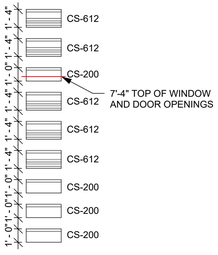
D. TOP OF PANELS ARE HUNG ON SUBGIRTS PER MANUFACTURERS STANDARD DETAILS.

E. METAL PANELS ARE MOUNTED ON 5/8" PLYWOOD PANELS. BASIS OF DESIGN: HUNTER XCI, 2 1/8". R-10 MIN.

F. FIELD VERIFY BUILT CONDITION PRIOR TO FABRICATION.

G. DIMENSIONS ARE TAKEN FROM OUTSIDE EDGE OF PANEL TO OUTSIDE EDGE OF PANEL.

PANEL LAYOUT KEY



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TITLE
EXTERIOR ELEVATIONS - METAL PANELS

SHEET NO.
A3.2

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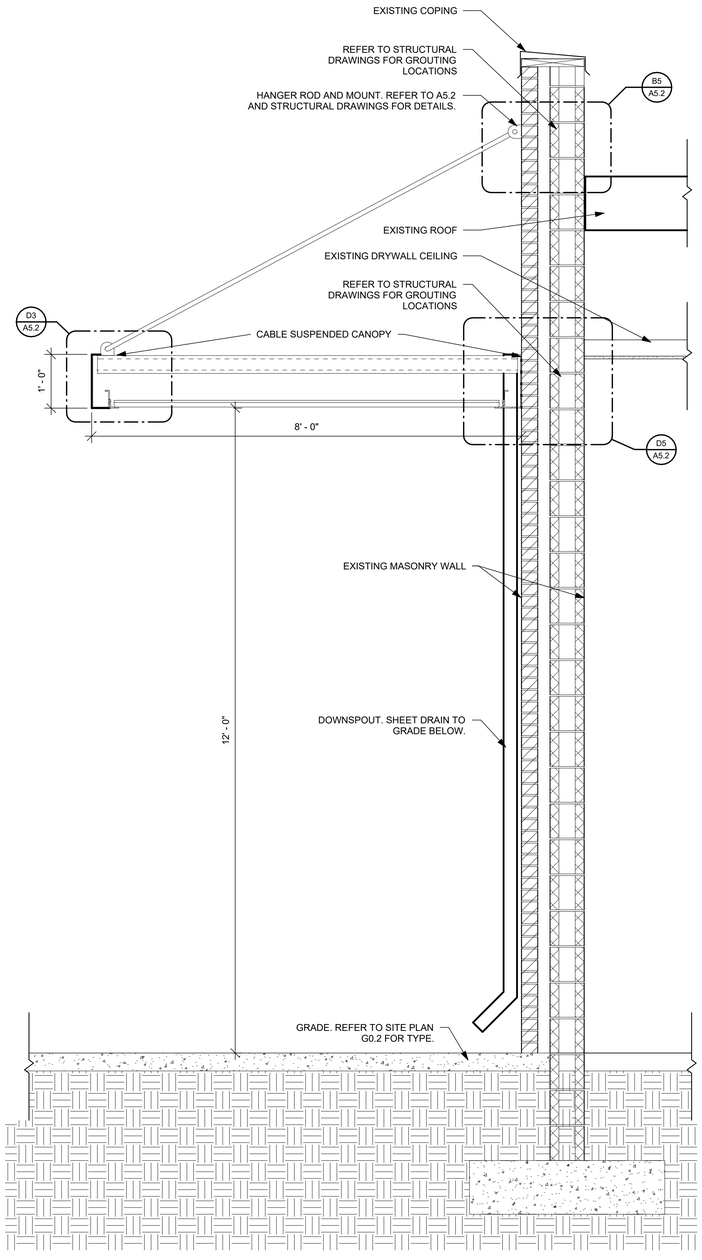
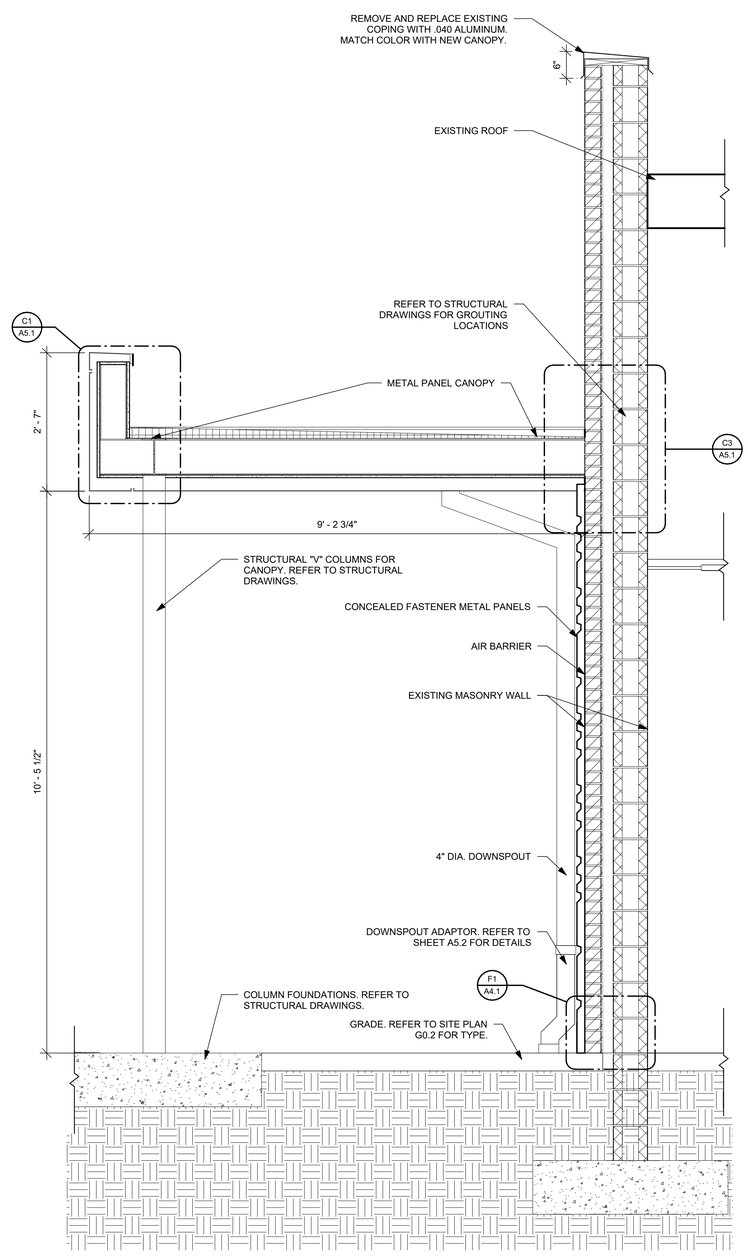


F2 NORTH CANOPY SECTION
3/4" = 1'-0"

F1 METAL PANEL BASE
3" = 1'-0"



F5 SOUTH CANOPY SECTION
3/4" = 1'-0"

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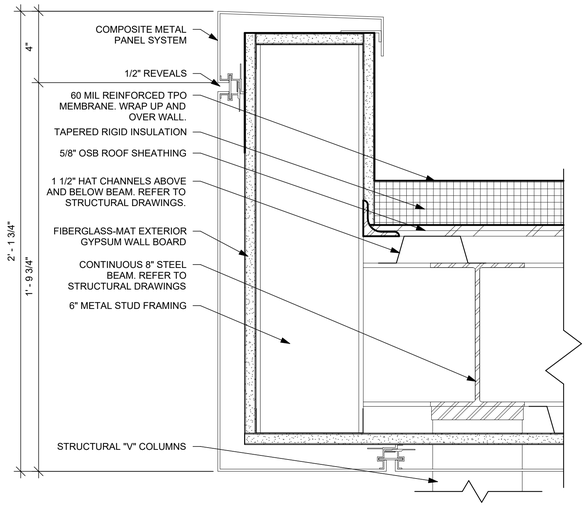
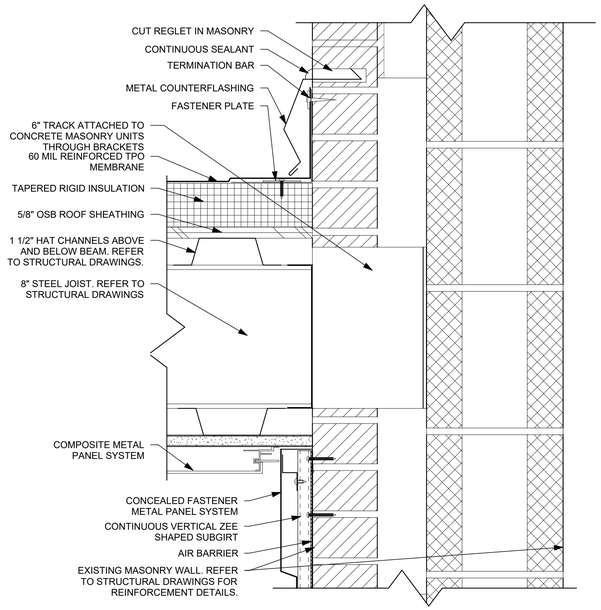
TITLE
WALL SECTIONS

SHEET NO.
A4.1

11/19/2025 1:46:06 PM



C1 SOUTH CANOPY - FRONT DETAIL
3" = 1'-0"



C3 SOUTH CANOPY WALL DETAIL
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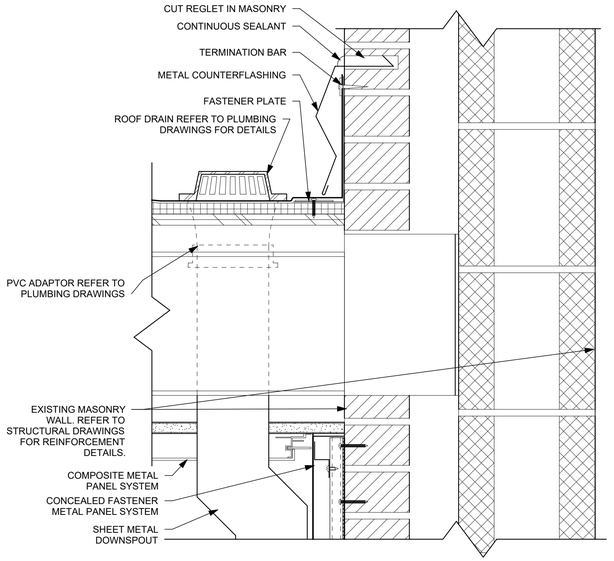
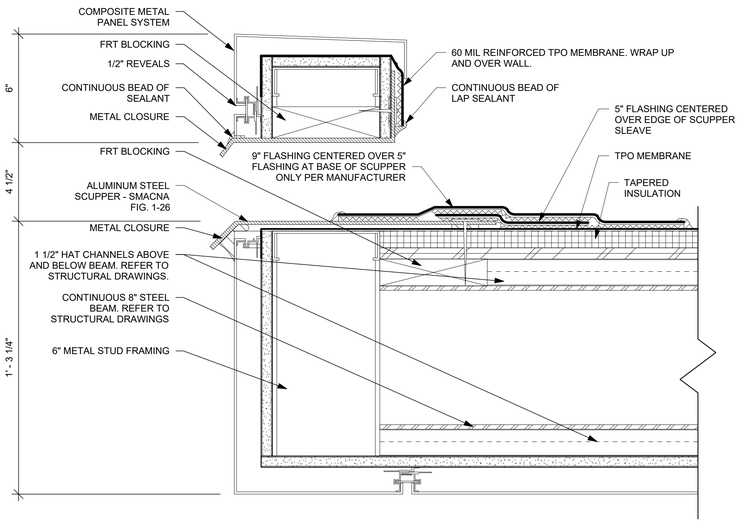
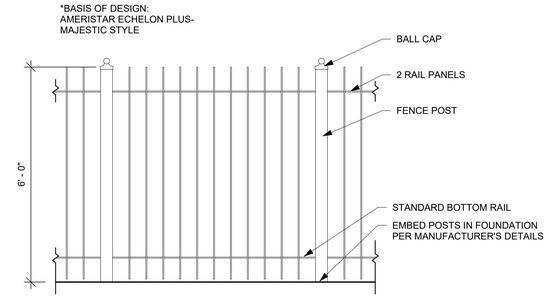


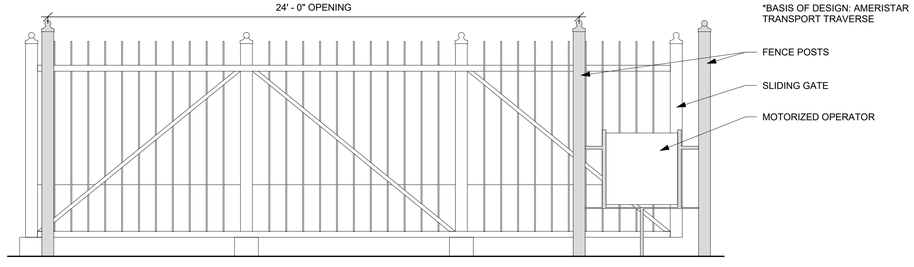
C5 SOUTH CANOPY DOWNSPOUT DETAIL
3" = 1'-0"



F1 SOUTH CANOPY - NORTH SCUPPER DETAIL
3" = 1'-0"



E2 SECURITY FENCE DETAIL
1/2" = 1'-0"



F2 SLIDING SECURITY GATE DETAIL
1/2" = 1'-0"

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12305
REGISTERED ARCHITECT
Timothy J. Bement, License #12305
Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
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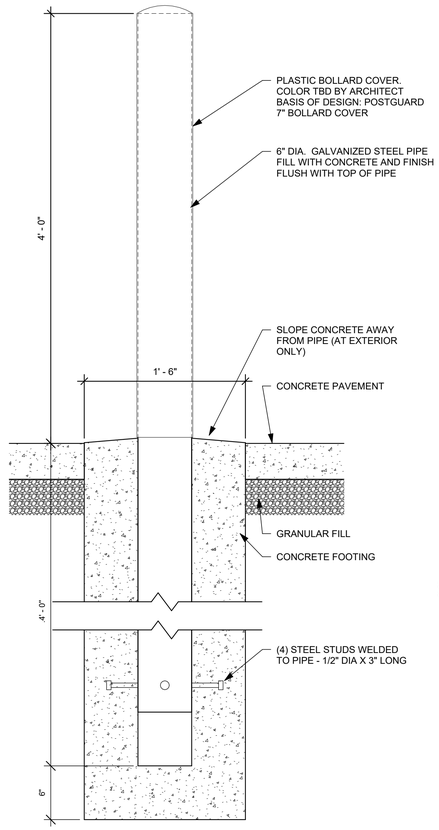
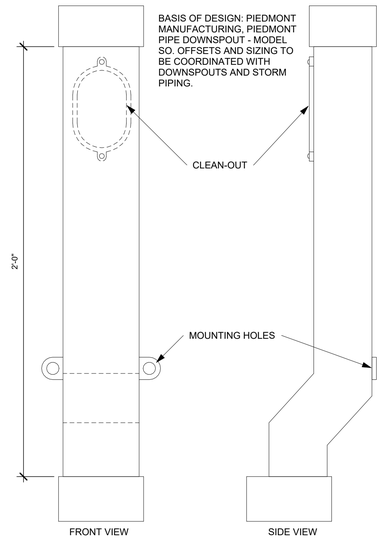
TITLE
EXTERIOR DETAILS

SHEET NO.
A5.1

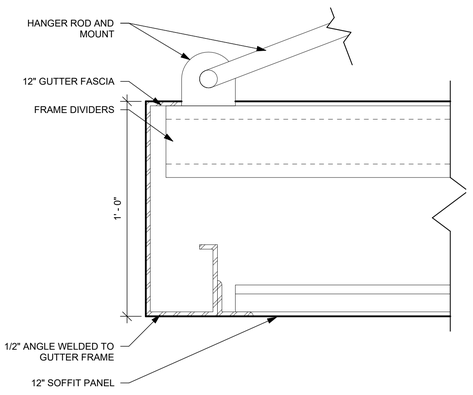
11/19/2025 1:48:07 PM



D1 PIPE BOLLARD DETAIL
1 1/2" = 1'-0"



D2 DOWNSPOUT ADAPTOR DETAIL
3" = 1'-0"



D3 NORTH CANOPY - FRONT DETAIL
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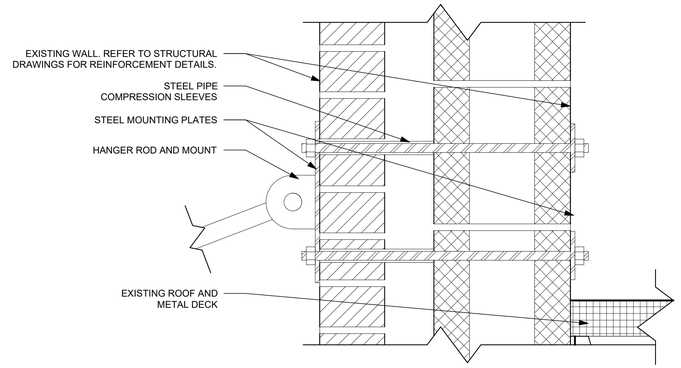

B5 NORTH CANOPY - HANGER ROD DETAIL
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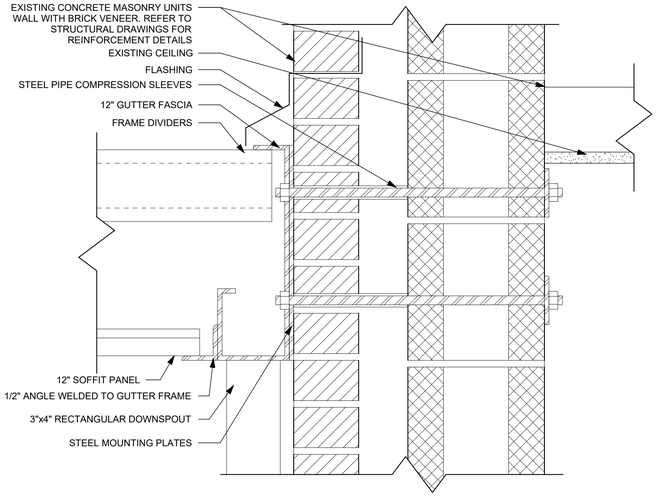

D5 NORTH CANOPY - WALL DETAIL
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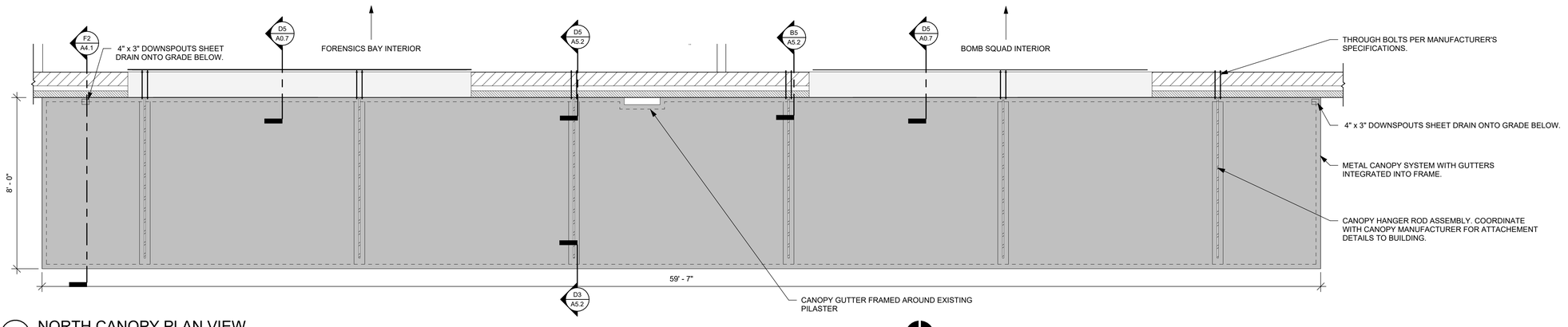

F1 NORTH CANOPY PLAN VIEW
3/8" = 1'-0"

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TITLE
EXTERIOR DETAILS

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A5.2

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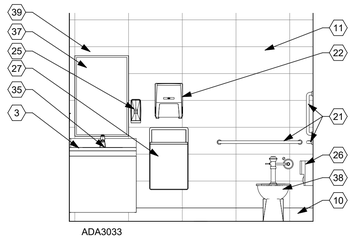
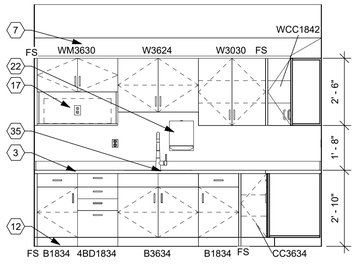
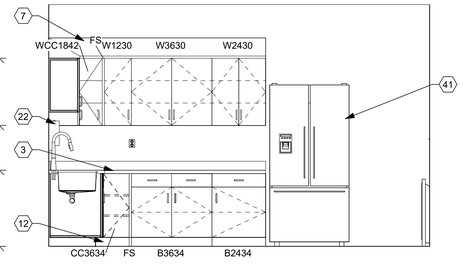


B1 103 WEST TOILET ROOM
3/8" = 1'-0"



B2 119 WEST BREAK
3/8" = 1'-0"



B3 119 NORTH BREAK
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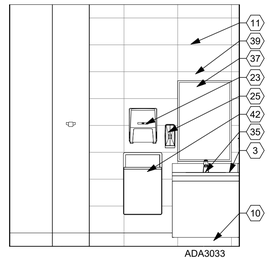
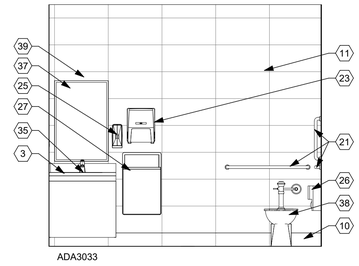
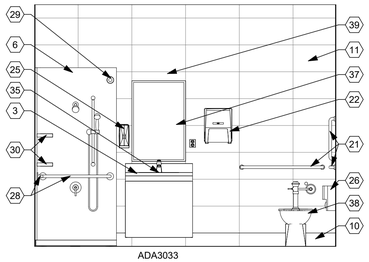


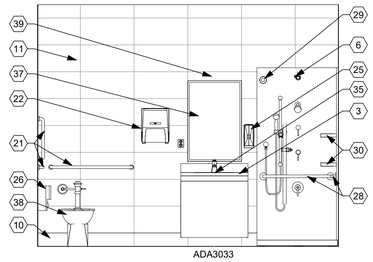
B4 117 EAST MOTHER'S
3/8" = 1'-0"



B5 118 WEST TOILET ROOM
3/8" = 1'-0"



C1 114D CHANGING ROOM WEST
3/8" = 1'-0"



C2 114G CHANGING ROOM WEST
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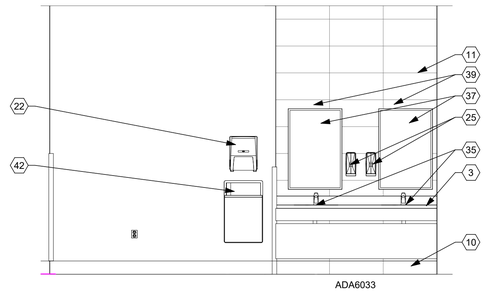
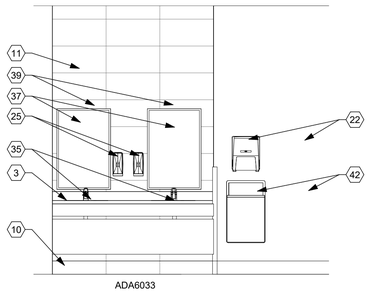
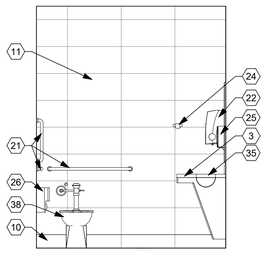


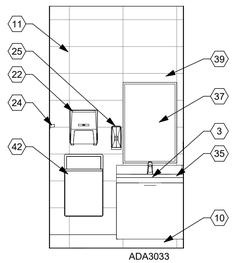
C3 114 PERSONAL GEAR EAST
3/8" = 1'-0"



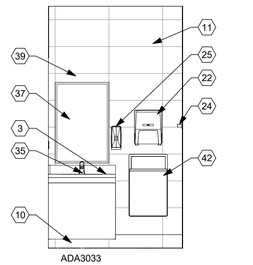
C5 114 WEST PERSONAL GEAR
3/8" = 1'-0"



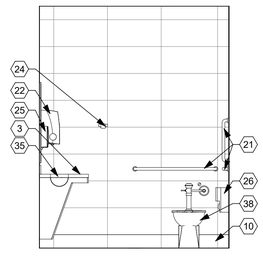
E1 114E SOUTH CHANGING
3/8" = 1'-0"



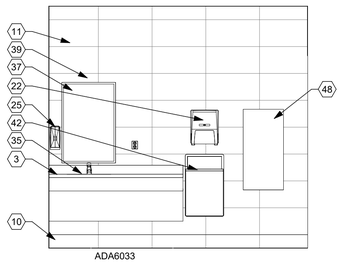
E2 114E WEST CHANGING
3/8" = 1'-0"



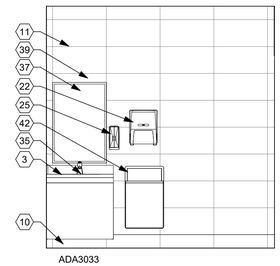
E3 114F EAST CHANGING
3/8" = 1'-0"



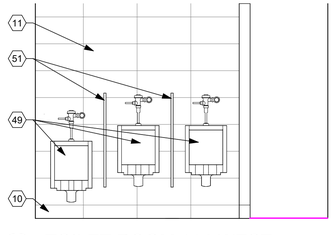
E4 114F SOUTH CHANGING
3/8" = 1'-0"



E5 125 EAST UNISEX TOILET
3/8" = 1'-0"



E6 127C NORTH TOILET ROOM
3/8" = 1'-0"



F1 TOILET ROOM 114 WEST
3/8" = 1'-0"

GENERAL NOTES

A. EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.
B. PROVIDE 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.
C. ALL BASE & WALL CABINET PL-2 U.N.O.
D. INSTALL SOLID WOOD (FIRE TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, TOILET ACCESSORIES, ETC.
E. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS.
F. ALL PLASTIC LAMINATE GRAIN TO RUN VERTICALLY U.N.O.
G. ALL OUTSIDE CORNERS OF PLAM COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.
H. ALL COUNTERTOPS 25" DEEP U.N.O.
I. REFER TO SHEET A0..2 FOR FINISHES DESCRIPTION AND ABBREVIATIONS.
J. REFER TO SHEET A0.1 FOR TOILET ACCESSORY MOUNTING HEIGHTS.

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1 SOLID SURFACE (SSM-1) WORKSTATION COUNTER. REFER TO FINISH SCHEDULE.
2 PLASTIC LAMINATE (PL-2) WORKSTATION COUNTER. REFER TO FINISH SCHEDULE.
3 SOLID SURFACE COUNTERTOP (SSM-1). REFER TO FINISH SCHEDULE.
4 SOLID SURFACE COUNTER WITH RECESSED PASS-THROUGH DEAL TRAY. REFER TO WINDOW AND DOOR DETAILS FOR ADDITIONAL NOTES. REFER TO SHEET A0.9 FOR BULLET RESISTANCE INFORMATION.
5 SOLID SURFACE CHAIR RAIL (SSM-1). ALIGN WITH BACKSPLASH WHERE ABUTS A SOLID SURFACE COUNTERTOP. REFER TO FINISH SCHEDULE.
6 SOLID SURFACE SHOWER AND ENCLOSURE. REFER TO PLUMBING DRAWINGS FOR DETAILS.
7 PLASTIC LAMINATE (PL-1) SLOPED CABINET TOP. REFER TO SHEET A8.1 FOR DETAILS.
8 BUTCHER BLOCK COUNTER TOP.
10 PORCELAIN TILE WALL BASE (PWTB-1). REFER TO FINISH SCHEDULE.
11 12" x24" WALL TILE (PT-2) ON WET WALLS. REFER TO FINISH SCHEDULE.
12 RUBBER WALL BASE (RB-1). REFER TO FINISH SCHEDULE.
13 VINYL WALL PROTECTION (VWP-1) BEHIND SHELVING.
14 HEAVY DUTY SHELVING AND BRACKETS SET AT 3'-0" O.C..
15 HEAVY DUTY STORAGE SHELVING.
16 METAL WORKTOP SUPPORT BRACKET. TYP. SPACING 4'-0" O.C. MAX COLOR AS SPECIFIED.
17 MICROWAVE CABINET. COORDINATE PLACEMENT OF ELECTRICAL OUTLET.
18 MOP SHELF WITH HANGERS.
19 STEEL IMPACT PROTECTION CORNER GUARD. REFER TO FINISH FLOOR PLAN SHEET A9.1.
20 METAL AIR VENT GRILLE. BASIS OF DESIGN: MOCKETT GT (3"x9").
21 WALL MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1.
22 WALL MOUNTED PAPER TOWEL DISPENSER. C-FOLD TYPE.
23 WALL MOUNTED PAPER TOWEL DISPENSER. ROLL TYPE.
24 WALL MOUNTED ROBE HOOK. REFER TO SPECIFICATIONS.
25 WALL MOUNTED SOAP DISPENSER.
26 WALL MOUNTED TOILET TISSUE DISPENSER.
27 WALL MOUNTED WASTE DISPENSER.
28 SHOWER MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
29 SHOWER ROD. REFER TO SPECIFICATIONS.
30 INTEGRAL SOLID SURFACE SHOWER SHELVES.
31 HAND WASHING SINK. REFER TO PLUMBING DRAWINGS.
32 LAUNDRY SINK. REFER TO PLUMBING DRAWINGS.
33 MOP SINK AND FAUCET. REFER TO PLUMBING DRAWINGS.
35 SINK. REFER TO PLUMBING DRAWINGS.
36 EYE WASH STATION. REFER TO PLUMBING DRAWINGS.
37 24" x36" WALL HUNG MIRROR. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
38 FLOOR MOUNTED TOILET. REFER TO PLUMBING DRAWINGS.
39 LIGHT FIXTURE MOUNTED ABOVE MIRROR. REFER TO ELECTRICAL DRAWINGS.
40 OWNER PROVIDED WASHER AND DRYER. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR DETAILS.
41 REFRIGERATOR BY OWNER.
42 RECESSED WASTE RECEPTACLE.
43 COPIER BY OWNER.
45 FRAMED SHELF BELOW CABINET. REFER TO F1/A8.1 FOR DETAILS.
46 FIREARM STORAGE CABINET MOUNTED TO WALL. TIFFIN FIREARMS AND ARMORY RACKS BY STELLE SOLUTIONS. 800-537-0983.
47 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE.
48 ACCESS PANEL TO WALL CHASE.
49 WALL MOUNTED URINAL. REFER TO PLUMBING DRAWINGS.
50 STORAGE SHELVES WITH SECURE STORAGE CAGES. 8' WIDE x 10' TALL x 3' DEEP.
51 WALL MOUNTED URINAL SCREEN. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.

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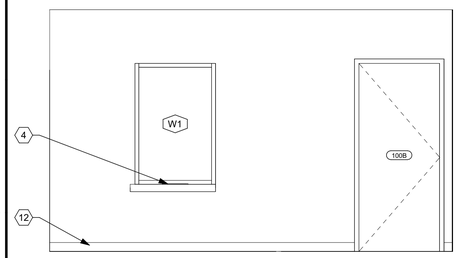
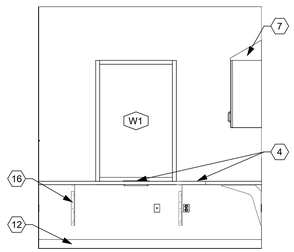
TITLE
INTERIOR ELEVATIONS

SHEET NO.
A7.1

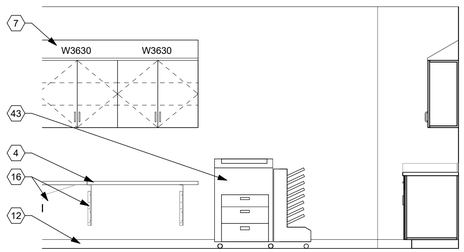
11/19/2025 1:48:13 PM



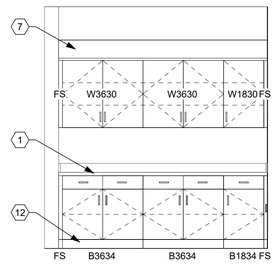
B1 100 NORTH VESTIBULE
3/8" = 1'-0"



B2 102 SOUTH RECEPTION
3/8" = 1'-0"



B3 102 WEST RECEPTION
3/8" = 1'-0"



B5 102 NORTH RECEPTION
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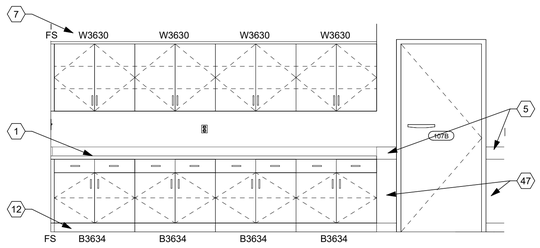
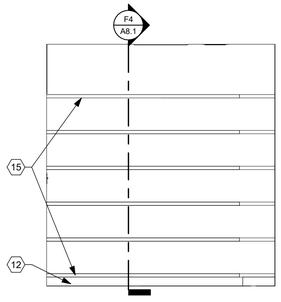
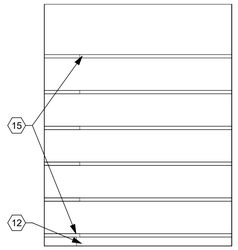


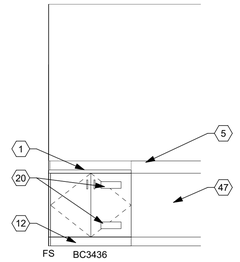
C1 107 WEST MULTI / TRAINING ROOM
3/8" = 1'-0"



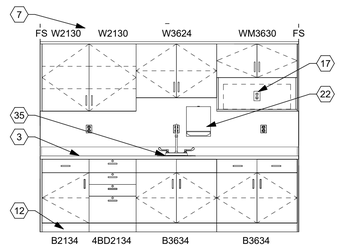
C2 107B SOUTH STORAGE
3/8" = 1'-0"



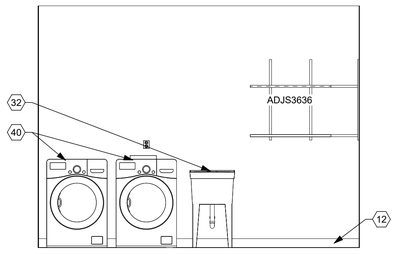
C3 107B WEST STORAGE
3/8" = 1'-0"



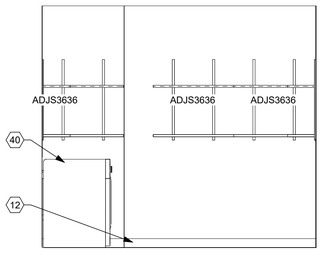
C4 108 EAST CONFERENCE
3/8" = 1'-0"



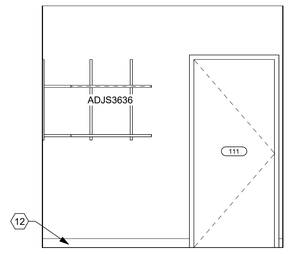
C5 121 WEST KITCHENETTE
3/8" = 1'-0"



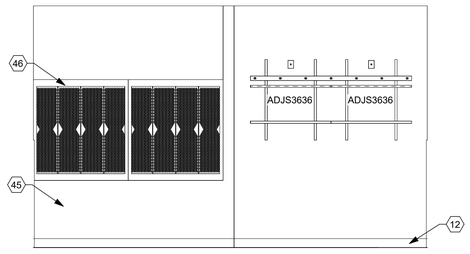
E1 111 WEST STORAGE
3/8" = 1'-0"



E2 111 SOUTH STORAGE
3/8" = 1'-0"



E3 111 EAST STORAGE
3/8" = 1'-0"



E4 109 WEST SECURE CORRIDOR
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 SOLID SURFACE (SSM-1) WORKSTATION COUNTER. REFER TO FINISH SCHEDULE.
2 PLASTIC LAMINATE (PL-2) WORKSTATION COUNTER. REFER TO FINISH SCHEDULE.
3 SOLID SURFACE COUNTERTOP (SSM-1). REFER TO FINISH SCHEDULE.
4 SOLID SURFACE COUNTER WITH RECESSED PASS-THROUGH DEAL TRAY. REFER TO WINDOW AND DOOR DETAILS FOR ADDITIONAL NOTES. REFER TO SHEET A0.9 FOR BULLET RESISTANCE INFORMATION.
5 SOLID SURFACE CHAIR RAIL (SSM-1). ALIGN WITH BACKSPLASH WHERE ABUTS A SOLID SURFACE COUNTERTOP. REFER TO FINISH SCHEDULE.
6 SOLID SURFACE SHOWER AND ENCLOSURE. REFER TO PLUMBING DRAWINGS FOR DETAILS.
7 PLASTIC LAMINATE (PL-1) SLOPED CABINET TOP. REFER TO SHEET A8.1 FOR DETAILS.
8 BUTCHER BLOCK COUNTER TOP.
10 PORCELAIN TILE WALL BASE (PWTB-1). REFER TO FINISH SCHEDULE.
11 12" x24" WALL TILE (PT-2) ON WET WALLS. REFER TO FINISH SCHEDULE.
12 RUBBER WALL BASE (RB-1). REFER TO FINISH SCHEDULE.
13 VINYL WALL PROTECTION (VWP-1) BEHIND SHELVING.
14 HEAVY DUTY SHELVING AND BRACKETS SET AT 3'-0" O.C..
15 HEAVY DUTY STORAGE SHELVING.
16 METAL WORKTOP SUPPORT BRACKET. TYP. SPACING 4'-0" O.C. MAX. COLOR AS SPECIFIED.
17 MICROWAVE CABINET. COORDINATE PLACEMENT OF ELECTRICAL OUTLET.
18 MOP SHELF WITH HANGERS.
19 STEEL IMPACT PROTECTION CORNER GUARD. REFER TO FINISH FLOOR PLAN SHEET A9.1.
20 METAL AIR VENT GRILLE. BASIS OF DESIGN: MOCKETT GT (3"x9").
21 WALL MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1.
22 WALL MOUNTED PAPER TOWEL DISPENSER. C-FOLD TYPE.
23 WALL MOUNTED PAPER TOWEL DISPENSER. ROLL TYPE.
24 WALL MOUNTED ROBE HOOK. REFER TO SPECIFICATIONS.
25 WALL MOUNTED SOAP DISPENSER.
26 WALL MOUNTED TOILET TISSUE DISPENSER.
27 WALL MOUNTED WASTE DISPENSER.
28 SHOWER MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
29 SHOWER ROD. REFER TO SPECIFICATIONS.
30 INTEGRAL SOLID SURFACE SHOWER SHELVES.
31 HAND WASHING SINK. REFER TO PLUMBING DRAWINGS.
32 LAUNDRY SINK. REFER TO PLUMBING DRAWINGS.
33 MOP SINK AND FAUCET. REFER TO PLUMBING DRAWINGS.
35 SINK. REFER TO PLUMBING DRAWINGS.
36 EYE WASH STATION. REFER TO PLUMBING DRAWINGS.
37 24" x36" WALL HUNG MIRROR. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
38 FLOOR MOUNTED TOILET. REFER TO PLUMBING DRAWINGS.
39 LIGHT FIXTURE MOUNTED ABOVE MIRROR. REFER TO ELECTRICAL DRAWINGS.
40 OWNER PROVIDED WASHER AND DRYER. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR DETAILS.
41 REFRIGERATOR BY OWNER.
42 RECESSED WASTE RECEPTACLE.
43 COPIER BY OWNER.
45 FRAMED SHELF BELOW CABINET. REFER TO F1/A8.1 FOR DETAILS.
46 FIREARM STORAGE CABINET MOUNTED TO WALL. TIFFIN FIREARMS AND ARMORY RACKS BY STELLE SOLUTIONS. 800-537-0983.
47 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE.
48 ACCESS PANEL TO WALL CHASE.
49 WALL MOUNTED URINAL. REFER TO PLUMBING DRAWINGS.
50 STORAGE SHELVES WITH SECURE STORAGE CAGES. 8' WIDE x 10' TALL x 3' DEEP.
51 WALL MOUNTED URINAL SCREEN. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.

GENERAL NOTES

A. EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.
B. PROVIDE 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.
C. ALL BASE & WALL CABINET PL-2 U.N.O.
D. INSTALL SOLID WOOD (FIRE TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, TOILET ACCESSORIES, ETC.
E. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS.
F. ALL PLASTIC LAMINATE GRAIN TO RUN VERTICALLY U.N.O.
G. ALL OUTSIDE CORNERS OF PLAM COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.
H. ALL COUNTERTOPS 25" DEEP U.N.O.
I. REFER TO SHEET A0..2 FOR FINISHES DESCRIPTION AND ABBREVIATIONS.

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TIMOTHY J. BEMENT
12305
REGISTERED ARCHITECT
Timothy J. Bement, License #12305
Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL
RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
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TITLE
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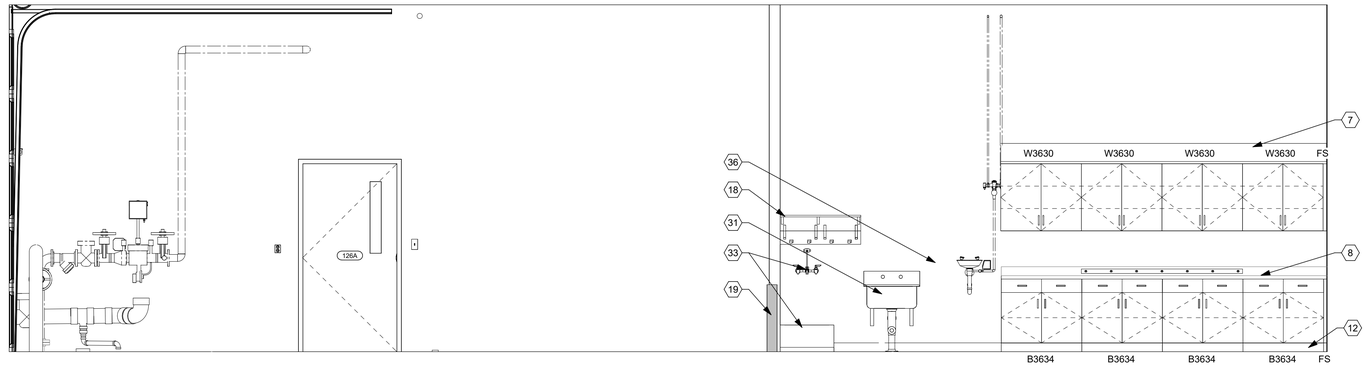
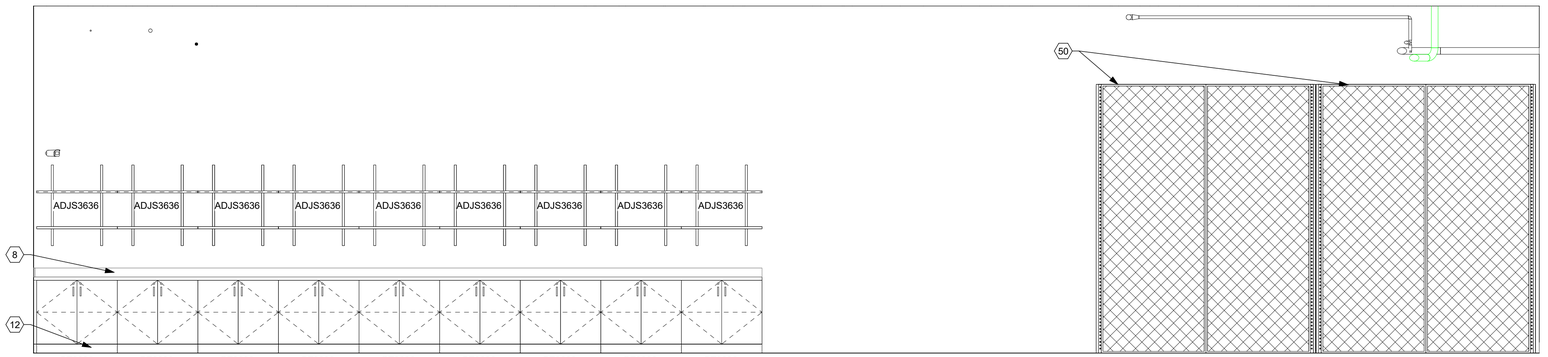
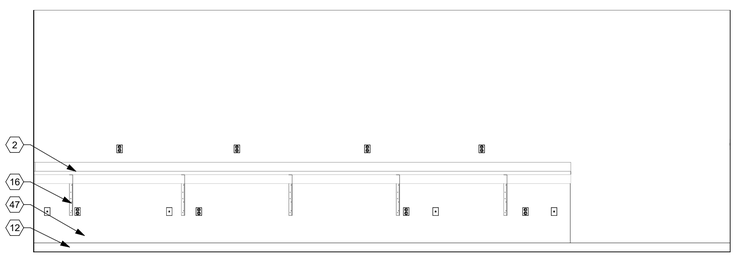


B1 126 EAST VEHICLE BAY / EVIDENCE
3/8" = 1'-0"

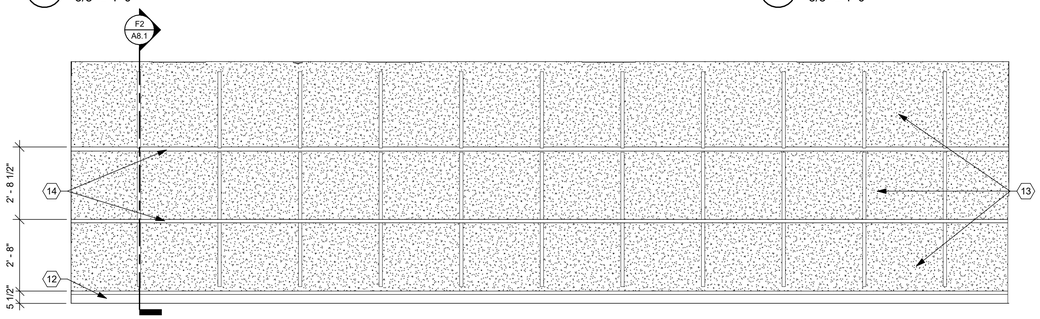


D1 126 WEST VEHICLE BAY / EVIDENCE
3/8" = 1'-0"

E1 121 SOUTH FORENSICS WORK AREA
3/8" = 1'-0"



E3 115 EAST REPORT / MAIL ROOM
3/8" = 1'-0"



F1 109A WEST TACTICAL GEAR STORAGE
3/8" = 1'-0"

CONSTRUCTION NOTES

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5 SOLID SURFACE CHAIR RAIL (SSM-1). ALIGN WITH BACKSPLASH WHERE ABUTS A SOLID SURFACE COUNTERTOP. REFER TO FINISH SCHEDULE.

6 SOLID SURFACE SHOWER AND ENCLOSURE. REFER TO PLUMBING DRAWINGS FOR DETAILS.

7 PLASTIC LAMINATE (PL-1) SLOPED CABINET TOP. REFER TO SHEET A8.1 FOR DETAILS.

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19 STEEL IMPACT PROTECTION CORNER GUARD. REFER TO FINISH FLOOR PLAN SHEET A9.1.

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29 SHOWER ROD. REFER TO SPECIFICATIONS.

30 INTEGRAL SOLID SURFACE SHOWER SHELVES.

31 HAND WASHING SINK. REFER TO PLUMBING DRAWINGS.

32 LAUNDRY SINK. REFER TO PLUMBING DRAWINGS.

33 MOP SINK AND FAUCET. REFER TO PLUMBING DRAWINGS.

35 SINK. REFER TO PLUMBING DRAWINGS.

36 EYE WASH STATION. REFER TO PLUMBING DRAWINGS.

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39 LIGHT FIXTURE MOUNTED ABOVE MIRROR. REFER TO ELECTRICAL DRAWINGS.

40 OWNER PROVIDED WASHER AND DRYER. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR DETAILS.

41 REFRIGERATOR BY OWNER.

42 RECESSED WASTE RECEPTACLE.

43 COPIER BY OWNER.

45 FRAMED SHELF BELOW CABINET. REFER TO F1/A8.1 FOR DETAILS.

46 FIREARM STORAGE CABINET MOUNTED TO WALL. TIFFIN FIREARMS AND ARMORY RACKS BY STELLE SOLUTIONS. 800-537-0963.

47 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE.

48 ACCESS PANEL TO WALL CHASE.

49 WALL MOUNTED URINAL. REFER TO PLUMBING DRAWINGS.

50 STORAGE SHELVES WITH SECURE STORAGE CAGES. 8' WIDE x 10' TALL x 3' DEEP.

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C. ALL BASE & WALL CABINET PL-2 U.N.O.
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H. ALL COUNTERTOPS 25" DEEP U.N.O.
I. REFER TO SHEET A0..2 FOR FINISHES DESCRIPTION AND ABBREVIATIONS.

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STATE OF OHIO
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12305
REGISTERED ARCHITECT
Timothy J. Bement, License #12305
Expiration Date 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL RENOVATIONS
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TITLE
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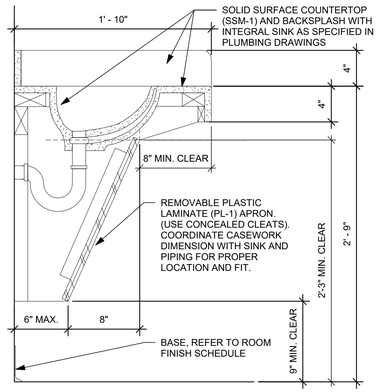
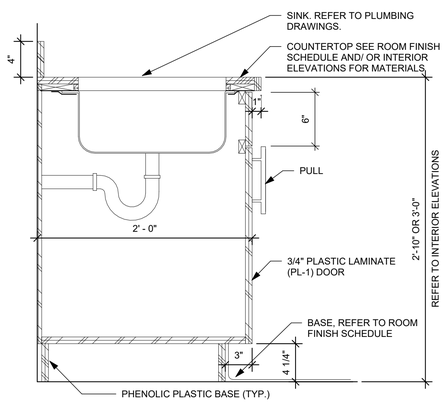
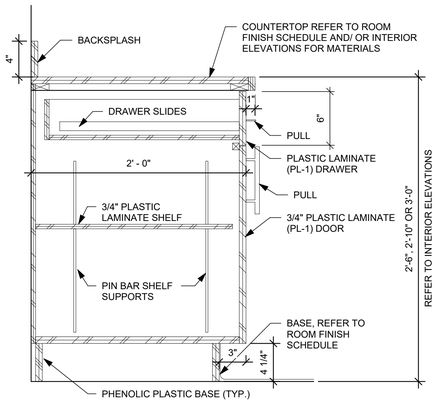


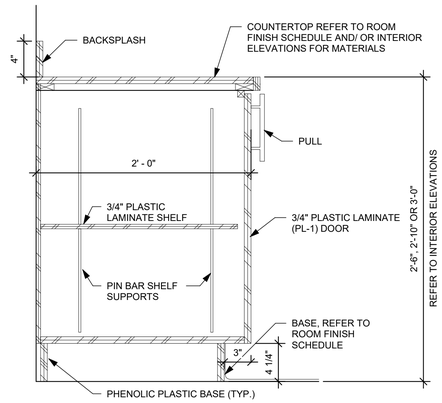
B1 "ADA" SINK (SADA) DETAIL
1 1/2" = 1'-0"



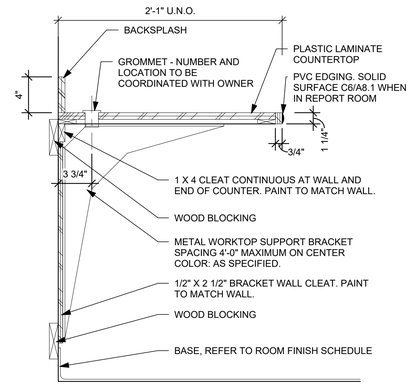
B2 TYP. SINK BASE CABINET (SB) DETAIL
1 1/2" = 1'-0"



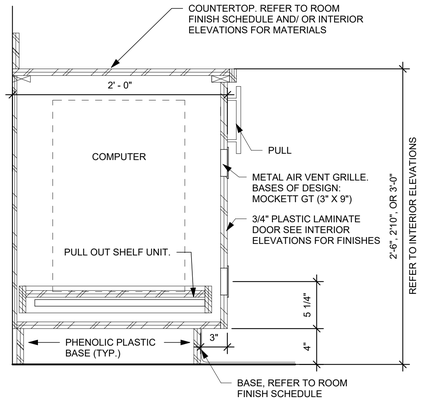
B4 TYP. BASE CABINET (B) DETAIL
1 1/2" = 1'-0"



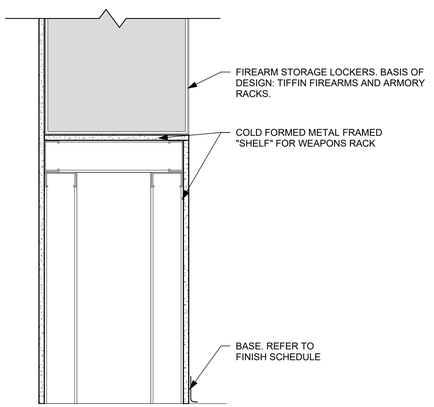
B5 TYP. BASE CABINET (BT) DETAIL
1 1/2" = 1'-0"



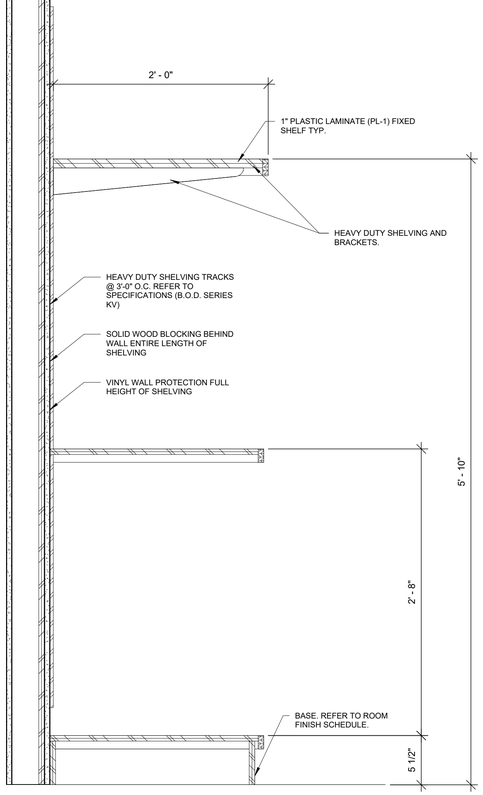
B6 TYP. WORK SURFACE DETAIL
1 1/2" = 1'-0"



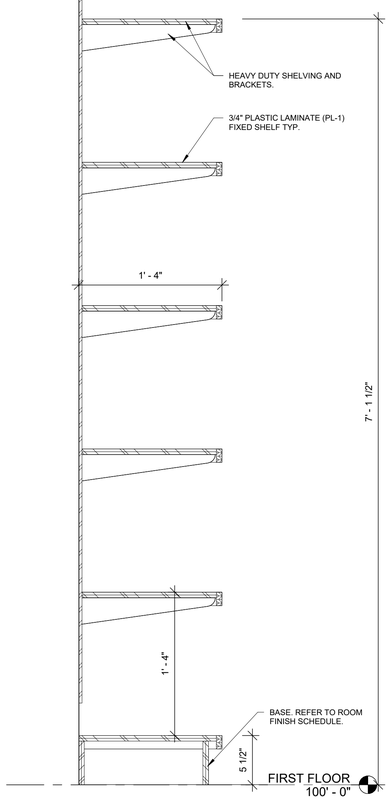
D1 COMPUTER BASE CABINET (BC) DETAIL
1 1/2" = 1'-0"



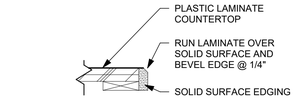
F1 GUN RACK STORAGE
1 1/2" = 1'-0"



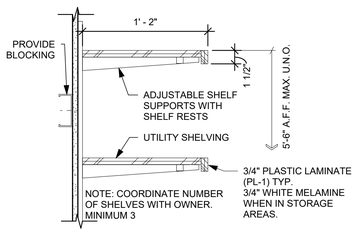
F2 HEAVY DUTY TACTICAL GEAR SHELF
1 1/2" = 1'-0"



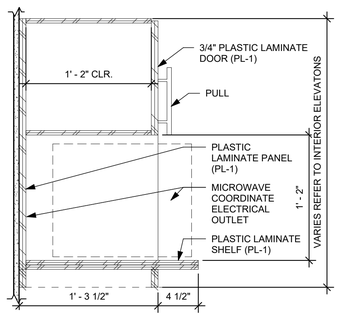
F4 HEAVY DUTY STORAGE SHELF
1 1/2" = 1'-0"



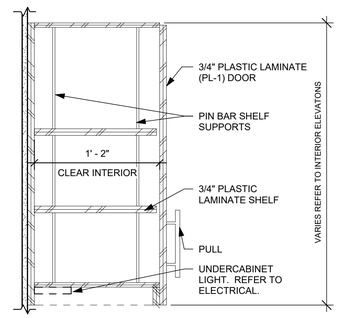
C6 SOLID SURFACE COUNTER EDGE
3" = 1'-0"



D6 ADJUSTABLE SHELVING (ADJS)
1 1/2" = 1'-0"



F5 MICROWAVE WALL (MW) CABINET
1 1/2" = 1'-0"



F6 WALL CABINET (W) DETAIL
1 1/2" = 1'-0"

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TITLE
CASEWORK DETAILS

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A8.1

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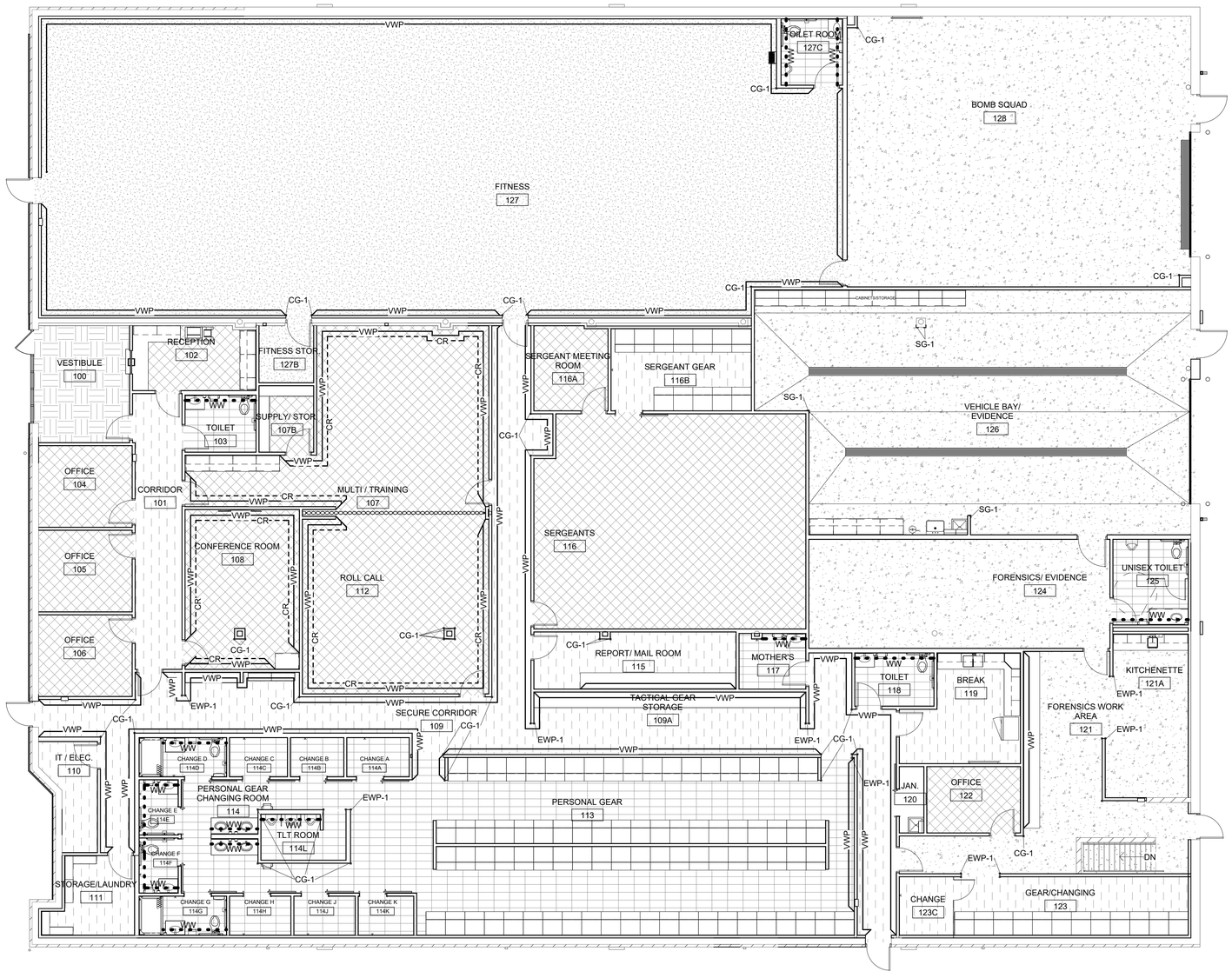

1 FIRST FLOOR FINISHES PLAN
1/8" = 1'-0"

2 BASEMENT FINISHES PLAN
1/8" = 1'-0"

FINISHES LEGEND

- CPT-1 - CARPET
- EXIST - EXISTING FLOOR
- MAT-1 - WALK- OFF MAT
- MCT-1 - MARMOLEUM TILE
- PT-1 - PORCELAIN TILE
- RT-1 - RUBBER TILE
- SC-1 - SEALED CONCRETE
- VWP - VINYL WALL PROTECTION
- CR - CHAIR RAIL
- WW - WALL TILE PWT-1 (WET WALLS)
- CG-1 - CORNER GUARD
- EWP-1 - END WALL PROTECTION
- SG-1 - STEEL IMPACT GUARD

BASIS OF DESIGN: OMEGA CORNER SHIELD HEAVY DUTY CORNER GUARDS. REFER TO E1/A0.4.

GENERAL NOTES

A. REFER TO FINISH SCHEDULE ON SHEET A0.2 FOR ADDITIONAL MATERIAL DETAILS AND LOCATIONS.

B. ALL EXPOSED STRUCUTRAL STEEL TO BE EPOXY PAINTED.

C. ALL EXPOSED DRYWALL CEILINGS TO BE PAINTED.

D. TRANSITION STRIPS ARE REQUIRED WHERE DIFFERING FLOORING TYPES MEET.

E. "CG-1" REFERS TO VINYL CORNER GUARDS. REFER TO SHEET A0.4 FOR DETAILS.

F. "EWP-1" REFERS TO VINYL END WALL PROTECTION GUARDS. REFER TO SHEET A0.4 FOR DETAILS.

G. REFER TO ASBESTOS REPORT FOR ABATEMENT AREAS.

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TITLE
FINISH FLOOR PLAN

SHEET NO.
A9.1

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A. GENERAL:

1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. ALL ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE BASED ON THE GROUND FLOOR DATUM OF 100'-0" (U.N.O.).

4. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

5. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED FOR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH INTERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK.

6. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONAL DATA PROVIDED.

7. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE-PROOFING METHODS, AND FIRE-PROOFING MATERIALS FOR STRUCTUREAL MEMBERS.

B. DELEGATED DESIGN / DEFERRED SUBMITTALS:

1. DELEGATED DESIGN AND DEFERRED SUBMITTALS ARE ITEMS DESIGNED BY OTHERS. SHOP DRAWINGS AND CALCULATIONS SHALL BE GENERATED FOR THE DESIGN AND FABRICATION OF ALL DELEGATED DESIGN AND DEFERRED SUBMITTALS ITEMS INDICATED BELOW. THESE DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. FOR ITEMS INDICATED AS "DESIGNED BY THE CONTRACTOR", "DESIGNED BY SUPPLIER", "DESIGNED BY FABRICATOR" AND "DESIGNED BY INSTALLER", IF THESE ENTITIES ARE NOT PROVIDING THEIR OWN ENGINEERING WITH THEIR DESIGNS COMPLETED BY A PROFESSIONAL ENGINEER WHO WILL SEAL AND SIGN THEIR SUBMITTALS THEN THESE ENTITIES WILL INDEPENDENTLY CONTRACT A THIRD PARTY TO PROVIDE THIS SERVICE ON THEIR BEHALF, UNLESS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, DELEGATED DESIGN ITEMS SHALL BE DESIGNED FOR ALL CODE DEFINED LOADS PLUS INDUSTRY STANDARD LOADS INCLUDING GRAVITY LOADS AND LATERAL LOADS DUE TO WIND AND SEISMIC. SEE THE RELEVANT SECTIONS OF THE GENERAL NOTES SHEETS FOR ADDITIONAL DESIGN REQUIREMENTS. CALCULATIONS SHALL INCLUDE REVIEW OF THE CAPACITIES OF ALL SUPPORTING STRUCTURAL ELEMENTS INCLUDING LOCAL STRESSES DUE TO THE CONNECTION METHODS SELECTED. ADDITIONALLY, THE CALCULATIONS AND DRAWINGS SHALL CLEARLY INDICATE THE MAGNITUDES AND DIRECTIONS OF THE LOADS IMPARTED ON THE SUPPORTING STRUCTURAL ELEMENTS. THE LOADING CRITERIA USED FOR DESIGN OF THE DELEGATED DESIGN SYSTEMS AND COMPONENTS SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND CALCULATIONS, REGARDLESS OF WHETHER THEY ARE MANDATED BY THE ENGINEER OF RECORD BY WAY OF THE DRAWING AND SPECIFICATIONS OR DERIVED BY THE DESIGNER.

2. TEMPORARY SHORING: FOUNDATIONS - SHEET PILING, PILES AND LAGGING REQUIRED FOR INSTALLATION OF FOUNDATIONS AND FOUNDATION WALLS SHALL BE DESIGNED BY THE CONTRACTOR. EXCAVATIONS REQUIRED FOR FOUNDATION AND FOUNDATION WALL CONSTRUCTION NEXT TO EXISTING BUILDINGS, NEAR PROPERTY LINES AND NEAR OR OVER UTILITIES MUST BE CONSIDERED BY THE CONTRACTOR IN EVALUATING SHORING REQUIREMENTS.

3. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS: ROOF-TOP UNITS - DESIGN OF THE MECHANICAL UNIT CURB, CONNECTIONS OF THE UNIT TO THE CURB AND CONNECTIONS OF THE CURB TO STRUCTURE SHALL BE PROVIDED BY THE MECHANICAL UNIT CONTRACTOR. ADDITIONAL SUPPORT FRAMING FOR SUPPORTING THE GRAVITY AND LATERAL LOADS SHALL BE DESIGNED, ENGINEERED AND PROVIDED IF IT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS. IF ADDITIONAL SUPPORT FRAMING IS PROVIDED, THE STRUCTURAL ADEQUACY SHALL BE VERIFIED FOR ALL ASCE 7-16 LOAD COMBINATIONS. SHOPS DRAWINGS AND CALCULATIONS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL PROVIDE DETAILS INDICATING THESE CONNECTIONS. SUPPORT AND BRACING OF DUCTWORK, PIPING, CONDUIT AND CABLE TRAYS ASSOCIATED WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE COMPONENTS. FOR PROJECTS IN SEISMIC DESIGN CATEGORY C, D AND HIGHER, SEISMIC BRACING OF ALL MECHANICAL AND ELECTRICAL COMPONENTS REQUIRED BY THE ASCE 7-16 SHALL BE DESIGNED BY THE MECHANICAL CONTRACTOR AND CLEARLY INDICATED AND DETAILED ON THE SHOP DRAWINGS.

4. SUPPORTS FOR INTERIOR FINISHES AND ACCOUTREMENTS:
INTERIOR PARTITIONS, SOFFITS AND STOREFRONT SYSTEMS NOT PART OF THE MAIN BUILDING SHELL SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTION TO STRUCTURE REQUIRED FOR ARTWORK, SPECIALTY LIGHTING SYSTEMS, MONITORS, VIDEO EQUIPMENT AND PROJECTION SCREENS, TELEVISIONS AND ANY OTHER MISCELLANEOUS ITEMS SHALL BE PROVIDED BY THE SUPPLIER.

   WINDOWS, STOREFRONTS, GLAZING AND CURTAIN WALL SYSTEMS:
   ALL EXTERIOR AND INTERIOR GLAZING SYSTEMS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE SUPPLIER. CONNECTION LOCATIONS SHALL BE CLEARLY INDICATED AND COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DETAILS.

   DUE TO MOVEMENT OF THE STRUCTURAL FRAMING SYSTEMS FROM LATERAL WIND AND SEISMIC FORCES, THE GLAZING SYSTEM MUST BE DESIGNED TO ACCOMMODATE 3/4" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL. THE DESIGN STORY DRIFT IS THE DIFFERENCE IN LATERAL DISPLACEMENT OF THE TOP OF THE STORY UNDER CONSIDERATION RELATIVE TO THE BOTTOM OF THAT STORY (TOP OF THE STORY BELOW).

   THE CONNECTIONS OF THE GLAZING SYSTEM TO STRUCTURE CAN BE DESIGNED FOR THIS RELATIVE HORIZONTAL MOVEMENT. THE CONNECTIONS SHALL BE DESIGNED FOR 3/4" HORIZONTAL (IN-PLANE) MOVEMENT IN ADDITION TO THE VERTICAL DEFLECTION REQUIREMENTS AS NOTED IN THE PLANS, DETAILS AND SPECIFICATIONS. IF THE CONNECTIONS ARE NOT DESIGNED FOR THE LATERAL MOVEMENT, THE GLAZING SYSTEM SHALL BE DESIGNED TO ACCOMMODATE 3/8" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL TO ACCOUNT FOR DIFFERENTIAL DISPLACEMENTS FROM LOAD REVERSALS IN THE STRUCTURAL SYSTEMS.

5. AWNINGS AND MISCELLANEOUS EXTERIOR FRAMING:
   ALL AWNINGS, NOT OTHERWISE DETAILED, SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTIONS TO STRUCTURE REQUIRED FOR AWNINGS AND OTHER MISCELLANEOUS EXTERIOR FRAMING ITEMS SHALL BE PROVIDED BY THE SUPPLIER. ASSOCIATED SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL HAVING JURISDICTION, FOR REVIEW AND APPROVAL PRIOR TO THIS WORK COMMENCING. THIS IS TO BE A DEFERRED SUBMITTAL UNDER THIS PERMIT.

C. SOIL/STRUCTURE INTERACTION & SOIL PREPARATION INFORMATION:

1. DO NOT BACKFILL WALLS UNTIL CONCRETE HAS ATTAINED FOURTEEN (14) DAY STRENGTH OR LATERAL BRACING IS PROVIDED.

2. FOUNDATIONS HAVE BEEN DESIGNED ASSUMING AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 POUNDS PER SQUARE FOOT (PSF) FOR SPREAD FOOTINGS FOR BUILDING COLUMNS AND CONTINUOUS FOOTINGS FOR BEARING WALLS. SOIL CONDITIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER OR AN APPOINTED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER (OR REPRESENTATIVE) SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.

D. DESIGN LOADS:

1. CODE REFERENCES:

   a. OHIO BUILDING CODE (OBC) - 2024
   b. ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   c. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318 - 2017
   d. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARIES, ACI 530 - 2016
   e. COLD-FORMED STEEL DESIGN MANUAL, AISI - 2017
   f. SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI - 2017
   g. CATALOG OF STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE - 2017
   h. STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, 1st EDITION - MARCH 2014
   i. STEEL DECK INSTITUTE ROOF DECK DESIGN MANUAL, 1st EDITION - MAY 2013
   j. STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL, 4th EDITION - SEPTEMBER 2015
   k. STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK - OCTOBER 2016
   l. STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS - MAY 2001
   m. MANUAL OF STEEL CONSTRUCTION - AISC, 15th EDITION - 2017
   n. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS - 01 AUGUST 2014
   o. STRUCTURAL WELDING CODE - STEEL, ANSI/AWS D1.1 - 2015
   p. FEMA 405 - NEHRP RECOMMENDED PROVISIONS FOR SEISMIC REGULATIONS FOR NEW BLDGS AND OTHER STRUCTURES - 2015

   DEAD LOADS:

ROOF DEAD LOAD	20 PSF

   LIVE LOADS:

   FLOOR LIVE LOADS:

OCCUPANCY TYPES:	DISTRIBUTED LOADS	CONCENTRATED LOAD (ON 2.5 SF AREA)
LOBBIES & 1ST FLR CORRIDORS	100 PSF	2,000 POUNDS
OFFICES	50 PSF	2,000 POUNDS
LIGHT STORAGE	125 PSF	
STAIRS AND EXIT WAYS	100 PSF	300 POUNDS (2" x 2" AREA)

   ROOF LIVE LOAD:

MINIMUM DESIGN ROOF LIVE LOAD	20 PSF

   SNOW LOAD PARAMETERS:

a. GROUND SNOW LOAD, Pg	20 PSF
b. FLAT-ROOF SNOW LOAD, Pf	16.8 PSF
c. THERMAL FACTOR, Ct	1.0
d. EXPOSURE FACTOR, Ce	1.0
e. ROOF SLOPE FACTOR, Cs	1.0
f. SNOW LOAD IMPORTANCE FACTOR, I	1.2

   WIND DESIGN PARAMETERS:

   a. ULTIMATE DESIGN WIND SPEED = 120 MPH
   b. WIND LOAD IMPORTANCE FACTOR = 1.0
   c. WIND EXPOSURE = EXPOSURE C
   d. MAIN WIND DESIGN VELOCITY PRESSURES:

HEIGHT (FT.)	WINDWARD WALL	LEEWARD WALL	SIDEWALLS
0 - 15	22.0 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
15 - 20	22.9 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
20 - 25	23.7 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF
25 - 30	24.5 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF

   COMPONENT AND CLADDING - WALLS

AREA (SQ. FT.)	INTERIOR ZONE	EDGE ZONE
10	30.8 PSF	37.9 PSF
100	26.6 PSF	29.4 PSF
200	25.4 PSF	27.0 PSF
500	23.7 PSF	23.7 PSF

   SEISMIC DESIGN PARAMETERS:

a. OCCUPANCY CATEGORY	IV (ESSENTIAL FACILITY)
b. SITE CLASS	D
c. IMPORTANCE FACTOR	1.50
d. SEISMIC DESIGN CATEGORY:	B
e. RESPONSE MODIFICATION COEFFICIENT, R	2
f. 0.2 SECOND DESIGN SPECTRAL RESPONSE, Sds	15.6%
g. 1.0 SECOND DESIGN SPECTRAL RESPONSE, Sd1	11.3%
h. DEFLECTION AMPLIFICATION FACTOR, Cd	1-3/4
i. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE	
j. SEISMIC FORCE-RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS	
k. SEISMIC BASE SHEAR: V = Cs x WEIGHT	

   LOADS ON HANDRAIL & GUARDRAIL SYSTEMS:

   a. HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 200 POUNDS IN ANY DIRECTION, AT ANY POINT ALONG THE TOP RAIL.
   b. HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 POUNDS-PER-LINEAR-FOOT IN ANY DIRECTION ALONG THE TOP RAIL. THIS DEMAND NEED NOT BE CONSIDERED CONCURRENTLY WITH THE LOAD IN 'a'.
   c. INTERMEDIATE RAILS AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 12" x 12". THE REACTIONS FROM THIS LOAD NEED NOT BE CONSIDERED CONCURRENTLY WITH THE LOADS IN 'a' & 'b'.

E. REINFORCED CONCRETE:

1. MATERIALS

   a. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS RELATED TO THE CONCRETE TO BE USED ON THIS PROJECT.
   b. STRUCTRUAL CONCRETE OVERVIEW - SEE SPECS FOR SPECIFIC INFO

LOCATION	f'c (PSI)
FOUNDATIONS AND GRADE BEAMS	3000
TYP. INTERIOR CONCRETE	4000
EXTERIOR CONCRETE EXPOSED TO DE-ICING	4500, 6% AIR
BACKFILL BELOW FOOTINGS, CONCRETE FILL IN STRUCTURES	1500

   c. ALL DEFORMED REINFORCING BARS: FY = 60,000 P.S.I.

   d. WELDED WIRE FABRIC: ASTM A185

2. FIELD MANUAL:

   PROVIDE AT LEAST ONE COPY OF THE LATEST ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

3. CONTINGENCIES:

   PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

4. FOOTINGS, PIERS, WALLS AND SLABS:

   a. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O.

   b. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LENGTH OF EACH LEG - 45 BAR DIAMETERS. (PLACE AS PER DETAILS U.N.O.).

   c. PROVIDE 10 MIL. POLYETHYLENE VAPOR RETARDER AND 10" COMPACTED AGGREGATE SUBBASE MATERIAL ON TOP IN ACCORDANCE WITH THE TYPICAL SLAB DETAILS. UNDER ALL INTERIOR SLABS ON GRADE, VAPOR RETARDER SHALL BE CARRIED TO AND PLACED IN CONTACT W/RIGID INSULATION AT INTERIOR FACE OF EXTERIOR FOUNDATION WALLS. SEE SPECIFICATIONS FOR FURTHER INFORMATION.

5. CONSTRUCTION JOINTS:

   CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED.

6. CHAMFER:

   PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, U.N.O.

7. MISCELLANEOUS:

   a. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS AND COORDINATE WORK WITH THE CONSTRUCTION MANAGER AND OTHER TRADES. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

8. CONCRETE COVER:

   U.N.O. DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
No. 6 - No. No. 18 BARS	2 IN.
No. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, AND JOISTS:	
No. 14 AND No. 18 BARS	1 1/2 IN.
No. 11 BARS AND SMALLER	3/4 IN.
BEAMS AND COLUMNS:	
PRIMARY REINFORCEMENT, STIRRUPS, TIES AND SPIRALS	1 1/2 IN.
SURFACES EXPOSED TO LIQUIDS:	2 IN.
SLABS ON GRADE - 1/3 SLAB THICKNESS FROM TOP OF SLAB OR AS SHOWN ON DRAWINGS	

TENSION LAP SCHEDULE:
fc = 3000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)

BAR COVER (INCHES)	3/4			1 1/2			1 1/2		
BAR SPACING (INCHES)	2 1/2	4	>=6	2 1/2	4	>=6	2 1/2	4	>=6
#4	29	29	29	29	29	29	29	29	29
#5	36	36	36	36	36	36	36	36	36
#6	43	43	43	43	43	43	43	43	43
#7	69	69	69	66	63	63	66	63	63
#8	-	-	-	86	72	72	86	72	72
#9	-	-	-	109	81	63	109	81	81

f'c = 4000 PSI TENSION LAP SPLICE LENGTHS (INCHES) - TOP BARS (NOTES 1 AND 2)

BAR COVER (INCHES)	3/4			1 1/2			1 1/2		
BAR SPACING (INCHES)	2 1/2	4	>=6	2 1/2	4	>=6	2 1/2	4	>=6
#4	25	25	25	25	25	25	25	25	25
#5	31	31	31	31	31	31	31	31	31
#6	37	37	37	37	37	37	37	37	37
#7	60	60	60	57	54	54	57	54	54
#8	-	-	-	74	62	62	74	62	62
#9	-	-	-	94	70	70	94	70	70

NOTES:
1. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
2. FOR BARS OTHER THAN TOP BARS, DIVIDE DEVELOPMENT LENGTH SPECIFIED IN TABLE BY 1.3.
3. INTERPOLATE FOR SPLICE LENGTHS AS NECESSARY
4. TENSION LAP SPLICES ARE BASED ON CLASS B. FOR CLASS A, DIVIDE BY 1.3. UNLESS NOTED OTHERWISE IN DRAWINGS, ASSUME ALL SPLICES AS CLASS B.
5. IF SPLICE DIMENSION IS INDICATED IN DRAWINGS, PROVIDE LARGER SPLICE LENGTH.
6. LAP SPLICE TABLES ARE BASED ON ACI 318002, SECTIONS 12.2.2, 12.2.3 & 12.14.2
7. VALUES SHOWN IN TABLE MAY BE LOWERED WITH Ktr IF TRANSVERSE REINFORCEMENT EXISTS PER 12.2.3.

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TITLE
GENERAL NOTES

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F. STRUCTRUAL STEEL:

1. GENERAL:
THE STRUCTURAL STEEL IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE (I.E., BUILDING) IS TOTALLY CONSTRUCTED (I.E. ,FULLY BUILT). THE STEEL ERECTOR SHALL DETERMINE, FURNISH, AND INSTALL ALL TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BEAMS, FALSE-WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION. THE STEEL ERECTOR SHALL PROVIDE THESE TEMPORARY SUPPORTS THAT SHALL BE SUFFICIENT TO SECURE THE BARE STRUCTURAL STEEL FRAMING, OR ANY PORTION THEREOF, AGAINST LOADS THAT ARE LIKELY TO BE ENCOUNTERED DURING ERECTION INCLUDING THOSE DUE TO WIND AND THOSE THAT RESULT FROM ERECTION OPERATIONS.

STEEL FABRICATOR AND ERECTOR FOR ALL STEEL SHALL FOLLOW ALL APPLICABLE REQUIREMENTS OF THE LATEST DOL PUBLICATION "SAFETY STANDARDS FOR STEEL ERECTIONS FINAL RULE".

2. MATERIALS:

a. W-SHAPE MEMBERS: ASTM A572, Fy=50 KSI, AND PER AISC TECHNICAL BULLETIN #3 (OR ASTM A992), AND ASTM 6
b. CHANNELS, M-SHAPES, S-SHAPES: ASTM A572, Fy=50 KSI, AND ASTM 6
c. HOLLOW STRUCTURAL SHAPES (DESIGNATED AS HSS OR TS): ASTM 500, GRADE B, (ROUND HSS -> Fy=42 KSI) (SQUARE & RECTANGULAR HSS -> Fy = 46 KSI)
d. TEES: SAME MATERIAL OF THE FULL SECTIONS THAT WAS SPLIT TO MAKE THE TEE SECTION
e. MISC: STEEL, PLATES, AND ANGLES: ASTM A36 Fy=36 KSI, OR ASTM A572, GRADE 42 WHERE NOTED ON THE DRAWINGS, AND ASTM A6
f. HIGH STRENGTH BOLTS: ASTM A325 OR A490
g. ANCHOR BOLTS: ASTM F1554, GRADE 55
h. ELECTRODES: E70XX

3. STANDARDS AND CODES:
WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1 UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:

a. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

b. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY

c. AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS.

4. CONNECTIONS:

a. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF OHIO, RETAINED BY THE FABRICATOR. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO PROVIDE ALL STIFFENER PLATES, ETC., THAT MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON THE STRUCTURAL SCHEMATIC DETAILS TO ENSURE THAT THE MEMBERS CONNECTED TOGETHER HAVE ADEQUATE STRENGTH AT THE CONNECTION. COMPLETELY DETAILED INCLUDES PROVIDING THE FOLLOWING INFORMATION ON THE DETAIL.

i. ALL PLATE DIMENSIONS AND GRADES
ii. ALL WELD SIZES, LENGTHS, PITCHES AND RETURNS
iii. ALL HOLE SIZES AND SPACINGS.
iv. NUMBER AND TYPES OF BOLTS

b. CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF OF THE ALLOWABLE LOAD ON THE MEMBER, AS DEFINED IN THE AISC TABLES FOR ALLOWABLE LOADS ON BEAMS AS Wc/2L OR THE REACTIONS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.

c. MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY WHERE MAGNITUDE IS NOT SHOWN ON DRAWINGS AND THE SHEAR OBTAINED FROM NOTE b. ABOVE.

d. THE MINIMUM PLATE THICKNESS SHALL BE 3/8", THE MINIMUM BOLT DIAMETER SHALL BE 3/4", THE MINIMUM WELD SHALL BE 1/4"x 2" LONG AND THE MINIMUM LOAD ON ANY CONNECTION SHALL BE 10 KIPS.

e. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINT OF CONCENTRATED LOADS, INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER THE TOPS OF COLUMNS, OR GIRDERS, AND AT THE LOCATION OF CHANGE OF SLOPE (KINKS) AT ANY MEMBER. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 5/8" OR FLANGE THICKNESS OF THE COLUMN ABOVE OR BELOW, WHICHEVER IS GREATER.

f. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF MOMENT CONNECTIONS, CANTILEVERS AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR SLIP CRITICAL CONNECTIONS. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS.

g. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.

h. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE BALUES USED FOR THE BARIOUS BOLT TYPES.

i. FABRICATOR SHALL PROVIDE FILLER PLATES BETWEEN ALL DOUBLE ANGLES AT INTERVALS SUCH THAT THE SLENDERNESS RATIO OF A SINGLE ANGLE DOES NOT CONTROL.

j. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH.

k. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

5. PAINT:

a. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY.

6. MISCELLANEOUS:

a. PROVIDE HOLES FOR OTHERS AS NOTED. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

b. STEEL SUPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AS SHOWN ON DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION WITH MECH. AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH HIS WORK.

c. GROUT UNDER BEARING PLATES TO BE NON-SHRINKING, NON-METALLIC TYPE.

d. ALL COLUMN ANCHOR BOLTS TO BE SET BY LICENSED SURVEYOR.

e. PROVIDE HEAVY HEX NUT AND COMPATIBLE WASHER AT ALL ANCHOR BOLTS.

f. MIN. BEAM BEARING ON MASONRY SHALL BE 8".

g. MIN. BEAM BEARING ON STEEL SHALL BE 4".

h. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

i. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

j. ALL EXPOSED STEEL ITEMS SHALL BE GALVANIZED.

G. LIGHT GAUGE STEEL FRAMING:

1. ALL LIGHT GAUGE METAL STUD FRAMING, INCLUDING HEADERS, SILLS, TRACKS AND OTHER ASSOCIATED FRAMING MEMBERS AND ACCESSORIES, AND THEIR CONNECTIONS TO STRUCTURE IS A DELEGATED DESIGN TO BE PROVIDED BY THE LIGHT GAUGE FRAMING CONTRACTOR. ALL LIGHT GAUGE STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND DESIGN REQUIREMENTS. THE LIGHT GAUGE METAL STUD FRAMING AND THE CONNECTIONS TO STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS ARE PROVIDED FOR DESIGN INTENT ONLY. THE DEPTH OF THE METAL STUDS SHOWN IN THE DETAILS SHALL BE PROVIDED.

2. THE DESIGN OF ALL LIGHT GAUGE FRAMING MEMBERS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE PERFORMED BY A REGISTERED ENGINEER RETAINED BY THE LIGHT GAUGE FRAMING CONTRACTOR. SUBMIT SEALED STRUCTURAL CALCULATIONS FOR REVIEW ALONG WITH THE LIGHT GAUGE FRAMING SHOP DRAWINGS. CONNECTIONS OF ALL FRAMING MEMBERS SHALL BE WITH SELF-DRILLING GALVANIZED SCREWS OR WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO RESIST ALL REQUIRED LOADS INCLUDING WIND. ALL WELDS SHALL BE TOUCHED-UP WITH A ZINC-RICH GALVANIZING PAINT.

3. METAL TRACKS SHALL HAVE 1.50-INCH FLANGES AND MATCH THE MATERIAL GAUGE OF THE IN-FRAMING METAL STUDS, U.N.O. THE IN-FRAMING METAL STUDS SHALL BE CONNECTED TO EACH TRACK FLANGE WITH ONE #10 SCREW. FULL HEIGHT BACK-TO-BACK DOUBLE STUDS SHALL BE PROVIDED AT ALL WALL ENDS, CORNERS AND EACH SIDE OF OPENINGS (JAMBS). ALL BOX BEAM HEADERS SHALL BEAR ON AN 18-GAUGE TRIMMER STUD WITH A NESTED TRACK, MINIMUM, U.N.O.

4. METAL STUDS SHALL BE C-SHAPED WITH 50 KSI YIELD STRENGTH FOR 12, 14 AND 16 GAUGE MATERIALS, AND 33 KSI FOR 18 AND 20 GAUGE MATERIALS. FOR ALL METAL STUDS, THE MINIMUM SECTION PROPERTIES SHALL CONFORM TO SSMA GUIDELINES. BRIDGING SHALL BE PROVIDED IN CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS TO OBTAIN THE FULL FLEXURAL CAPACITY OF THE SECTION.

5. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653. ALL LIGHT GAUGE STEEL MEMBERS SHALL BE ZINC COATED MEETING THE REQUIREMENTS OF ASTM A924. ALL STRUCTURAL LIGHT GAUGE MEMBERS SHALL BE CONSTRUCTED WITH UNPUNCHED SOLID WEBS, UNLESS OTHERWISE NOTED.

6. CONNECTIONS AT LIGHT GAUGE MATERIAL CONSTRUCTED WITH #10 HILTI KWIK-FLEX OR GRABBER SCREWS, UNLESS OTHERWISE NOTED.

7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR TIGHT ATTACHMENT TO PERPENDICULAR MEMBERS, OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

8. SPLICES IN FRAMING MEMBERS, OTHER THAN RUNNING TRACK, SHALL NOT BE PERMITTED.

9. WEB STIFFENERS SHALL BE PROVIDED AT REACTION POINTS, AND/OR AT POINTS OF CONCENTRATED LOADS AS REQUIRED.

10. JOIST BRIDGING SHALL BE PROVIDED TO BRACE MEMBERS AS REQUIRED TO DEVELOP FULL MEMBER STRENGTH.

11. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.

12. STRUCTURAL MEMBERS NOTED SHALL HAVE SECTION PROPERTIES AS INDICATED IN THE "PRODUCT TECHNICAL INFORMATION" DOCUMENT BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

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TABLE 1705.2.1 REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MATERIAL IDENTIFICATION AND TESTING OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	- -	x	AISC 360: SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURE'S CERTIFICATE OF COMPLIANCE REQUIRED.	- -	x	
c. TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	- -	- -	
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
a. SNUG-TIGHT JOINTS.	- -	x	AISC 360: SECTION M2.5
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF I NSTALLATION.	- -	x	
c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	x	- -	
3. MATERIAL IDENTIFICATION AND TESTING OF STRUCTURAL STEEL AND COLD-FORMED DECK:			
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	- -	x	AISC 360: SECTION N2.1 AND APPLICABLE ASTM MATERIAL STANDARDS
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	- -	x	
c. MANUFACTURER'S CERTIFIED TEST REPORTS.	- -	x	
d. TESTING OF UNIDENTIFIED STEEL.	- -	- -	
4. MATERIAL IDENTIFICATION OF WELDING CONSUMABLES AND TESTING OF WELDED ELEMENTS:			
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	- -	x	AISC 360: A3.5, N3.2, & N5.5 AND APPLICABLE AWS A5 DOCUMENTS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	- -	x	
c. NONDESTRUCTIVE TESTING OF WELDED JOINTS.	- -	- -	
5. INSPECTION OF WELDING:			
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:			
i. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	x	- -	AISC 360: J2, M2.4 & M4.5 AWS D1.1 & AWS D1.8
ii. MULTIPASS FILLET WELDS.	x	- -	
iii. SINGLE-PASS FILLET WELDS > 5/16"	x	- -	
iv. PLUG AND SLOT WELDS.	x	- -	
v. SINGLE-FILLET WELDS 5/16" OR LESS.	- -	x	
vi. FLOOR AND ROOF DECK WELDS.	- -	x	AWS D1.3, SDI QA/QC
vii. END-WELDED STUDS.	- -	x	AWS D1.1
viii. WELDED SHEET STEEL FOR COLD-FORMED FRAMING MEMBERS.	- -	x	AWS D1.3
b. REINFORCING STEEL:			
i. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	- -	x	AWS D1.4, ACI 318: 18.2.8, 25.5.7.4 & 26.6.4.1
ii. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	x	- -	
iii. SHEAR REINFORCEMENT.	x	- -	
iv. OTHER REINFORCING STEEL.	- -	x	
v. TESTS OF REINFORCING BARS.	- -	- -	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:			
a. DETAILS SUCH AS BRACING AND STIFFENING.	- -	x	AISC 360: N5.8
b. MEMBER LOCATIONS	- -	x	
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	- -	x	

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	- -	x	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	- -	x	AWS D1.4 ACI 318: 26.6.4	- -
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16";	- -	x		
c. INSPECT ALL OTHER WELDS.	x	- -		
3. INSPECT ANCHORS CAST IN CONCRETE.	- -	x	ACI 318: 17.8.2	- -
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINDED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	x	- -	ACI 318: 17.8.2.4	- -
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT IDENTIFIED IN 4.a	- -	x	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX.	- -	x	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	x	- -	ASTM C172, ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x	- -	ACI 318: 26.5	1908.6 - 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	- -	x	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRE-STRESSED CONCRETE FOR:				
a. APPLICATION OF PRE-STRESSING FORCES;	x	- -	ACI 318: 26.10	- -
b. GROUTING OF BONDED PRE-STRESSING TENDONS	x	- -		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	- -	x	ACI 318: 26.9	- -
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STUCTURAL SLABS.	- -	x	ACI 318: 26.11.2	- -
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	- -	x	ACI 318: 26.11.1.2(b)	- -

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	- -	x
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	- -	x
3. PERFOM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	- -	x
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	x	- -
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	- -	x

SPECIAL INSPECTION PROGRAM NOTES:

1. PERIODIC INSPECTION FREQUENCY DETERMINED BY THE DESIGN PROFESSIONAL, UNLESS NEEDED OTHERWISE.
2. CONTINUOUS OR PERIODIC SELECTION TO BE MADE BY THE DESIGN PROFESSIONAL BASED ON BUILDING CATEGORY AND DESIGN METHODOLOGY. SPECIAL INSPECTION/TESTING PROGRAM.

SPECIAL INSPECTION / TESTING PROGRAM

1. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION STIPULATED.
2. IF NECESSARY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, AND TESTING AGENCY TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
3. DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:

   A. ACKNOWLEDGE AND CONFORM TO THE SPECIAL INSPECTION REQUIREMENTS OF OBC.

   B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ATTENTION OF THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL.

   C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE CONTRACTOR, THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL AS A MINIMUM. THE REPORTS SHALL BE DISTRIBUTED IN A TIMELY MANNER.

   D. INSPECTION FOR PREFABRICATED COMPONENTS SHALL BE THE SAME AS IF THE MATERIAL WAS INSTALLED ON SITE. CONTINUOUS INSPECTION SHALL NOT BE REQUIRED DURING THE PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.

   E. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING INSPECTION WAS INSPECTED AND WHETHER THE WORK WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATION AND IN CONFORMANCE WITH ANY APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE CODE.

4. SPECIAL INSPECTION AND TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

A
A/E - ARCHITECT/ENGINEER
AB - ANCHOR BOLT/ROD
AFF - ABOVE FINISH FLOOR
ARCH. - ARCHITECT (URAL)
B
BFF - BELOW FINISH FLOOR
BLK - BLOCK (ING)
BM - BEAM
BRG - BEARING
BU - BUILT UP
BV - BOTTOM OF
C
CAM (C=) - CAMBER
CIP - CAST-IN-PLACE
CJ - CONTROL JOINT
CL - CENTERLINE
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECT (ION)
CONT - CONTINUOUS
CONTR - CONTRACT (OR)
CTR - CENTER
CU - CUBIC
D
D - DEEP, DEPTH
DBL - DOUBLE
DEMO - DEMOLITION, DEMOLISH
DET - DETAIL
DIA - DIAMETER
DIAG - DIAGONAL, DIAGRAM
DIM - DIMENSION
DIR - DIRECTION
DL - DEAD LOAD
DR - DRAIN
DWG - DRAWING
E
EA - EACH
EF - EACH FACE
EJ - EXPANSION JOINT
EL, ELEV - ELEVATION
EMBED - EMBEDMENT
EQ - EQUAL
EST - ESTIMATE
EW - EACH WAY
EQUIP - EQUIPMENT
EXP - EXPANSION
EXT - EXTERIOR
F
FD - FLOOR DRAIN
FF - FINISHED FLOOR
FIN - FINISH (ED)
FLG - FLANGE
FLR - FLOOR (ING)
FOC - FACE OF CONCRETE
FOM - FACE OF MASONRY
FOS - FACE OF STUD
FOW - FACE OF WALL
FS - FAR SIDE
FT - FOOT, FEET
FTG - FOOTING
FRMG - FRAMING
FUT - FUTURE
G
GA - GAGE, GAUGE
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GEN - GENERAL
GL - GRADE LINE
GLU-LAM - GLUE-LAMINATED BEAM
GR BM - GRADE BEAM
GYP BD - GYPSUM BOARD
H
H - HIGH
HAS - HEADED ANCHOR STUD
HC - HOLLOW CORE
HDR - HEADER
HGR - HANGER
HORIZ - HORIZONTAL
HR - HANDRAIL
HS - HIGH STRENGTH
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL SHAPE
HT - HEIGHT
I
ID - INSIDE DIAMETER
INCL - INCLUDING
INT - INTERIOR
J
JST - JOIST
JT - JOINT
K
K - KIPS (1000 lbs.)
KCJ - KEYED CONSTRUCTION JOINT
KLF - KIPS PER LINEAR FOOT
KSF - KIPS PER SQUARE FOOT
KSI - KIPS PER SQUARE INCH
L
L - ANGLE
LL - DOUBLE ANGLE
LBS - POUNDS
LG - LONG
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LOC - LOCATION
LONG - LONGITUDINAL
LSL - LAMINATED STRAND LUMBER
LT WT - LIGHT WEIGHT
LVL - LAMINATED VENEER LUMBER
M
MATL - MATERIAL
MAX - MAXIMUM
MBR - MEMBER
MC - MISCELLANEOUS CHANNEL
MECH - MECHANICAL
MEZZ - MEZZANINE
MFD - MANUFACTURED
MFR - MANUFACTURER
MIN - MINIMUM
MISC - MISCELLANEOUS
MTL - METAL
N
NA - NOT APPLICABLE
NIC - NOT IN CONTRACT
NO - NUMBER
NOM - NOMINAL
NS - NEAR SIDE
NTS - NOT TO SCALE
O
OC - ON CENTER
OD - OUTSIDE DIAMETER
OH DR - OVERHEAD DOOR
OPNG - OPENING
OPP - OPPOSITE
OSB - ORIENTED STRAND BOARD
OVS - OVERSIZED
P
PAF - POWDER ACTUATED FASTENER
PCF - POUNDS PER CUBIC FOOT
PL - PLATE
PLF - POUNDS PER LINEAR FOOT
PLYWD - PLYWOOD
PNL - PANEL
PR - PAIR, PIPE RAIL
PRCST - PRECAST
PREFAB - PREFABRICATED
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PT - POST TENSION (ED), PRESSURE TREATED
R
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
RD - ROOF DRAIN
REF - REFERENCE
REINF - REINFORCING
REQ'D - REQUIRED
REV - REVISION
RO - ROUGH OPENING
S
SCHED - SCHEDULE
SECT - SECTION
SHT - SHEET
SHTHG - SHEATHING
SIM - SIMILAR
SL - SNOW LOAD
SLV - SLEEVE
SOG - SLAB-ON-GRADE
SPEC - SPECIFICATION
SQ - SQUARE
SSL - SHORT SLOTTED
SST - STAINLESS STEEL
STD - STANDARD
STIF - STIFFENER
STL - STEEL
SUSP - SUSPENDED
SW - SHEAR WALL
SYMM - SYMMETRICAL
T
T&B - TOP AND BOTTOM
T&G - TONGUE AND GROOVE
TBD - TO BE DETERMINED
THK - THICK (NESS)
TL - TOTAL LOAD
TO - TOP OF
TOB - TOP OF BEAM
TOC - TOP OF CONCRETE
TOCW - TOP OF CONCRETE WALL
TOF - TOP OF FOOTING
TOM - TOP OF MASONRY
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
U
UNO - UNLESS NOTED OTHERWISE
V
V - SHEAR
VERT - VERTICAL
VIF - VERIFY IN FIELD
VR - VAPOR RETARDER
VRFY - VERIFY
W
W - WIDTH
W/ - WITH
W/O - WITHOUT
WD - WOOD
WF - WIDE FLANGE
WL - WIND LOAD
WLD - WELD (ED)
WP - WATERPROOFING, WORK POINT
WS - WATERSTOP
WT - WEIGHT
WWF - WELDED WIRE FABRIC
Y
YD - YARD

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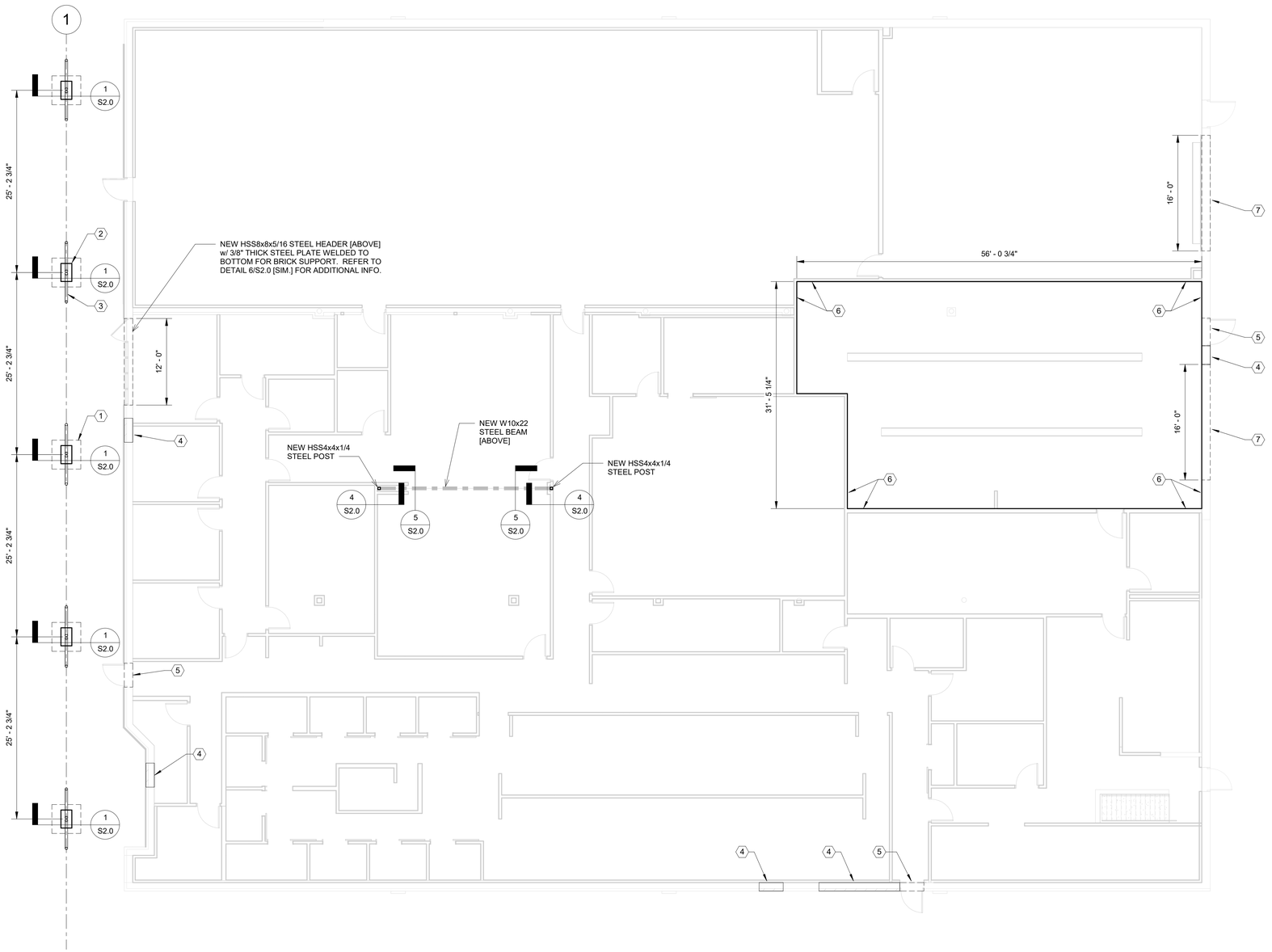

1 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION NOTES:

1. TOP OF CONCRETE PIER = 100'-4" U.N.O.
2. TOP OF FOOTING = 98'-0" U.N.O.
3. ELEVATIONS ARE BASED ON A FINISHED FLOOR ELEVATION OF 100'-0".
4. REFER TO ARCH. DWG's FOR EXACT LOCATIONS & DIMENSIONS OF NEW OPENINGS IN EXISTING WALL CONSTRUCTION.

PLAN NOTES:

1. 48" x 48" x 12" CONCRETE FOOTING w/ (5) #5 BARS EACH WAY, TYP.
2. 1'-6" x 2'-6" CONCRETE PIER w/ (6) #5 VERTICAL BARS AND #4 TIES AT 12" O.C. [PROVIDE 3 WITHIN TOP 6" OF PIER], TYP.
3. PAIR OF 4" DIA. STD PIPE STEEL COLUMN, TYP. SEE ARCH. DWG's FOR ADDITIONAL INFORMATION.
4. INFILL OPENING TO MATCH EXISTING WALL CONSTRUCTION.
5. NEW OPENING IN EXISTING CONSTRUCTION. PROVIDE CONCRETE PRECAST LINTEL(S) AS REQUIRED OR 8" DEEP CMU LINTEL w/ (2) #5 BARS [EXTEND BARS 12" BEYOND FACE OF OPENING, GROUTED SOLID], WHERE REQUIRED, PROVIDE STEEL ANGLE LINTELS PER SCHEDULE ON SHEET S2.0.
6. EXTENTS OF NEW 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED w/ 6x6 - W2.0xW2.0 W.W.F. PROVIDE #4 x 8" LONG DOWELS AT 12" O.C. AROUND PERIMETER OF NEW SLAB [4" EPOXY EMBEDMENT].
7. PROVIDE NEW W16x40 STEEL HEADER AT NEW OVERHEAD DOORS w/ 3/8" THICK STEEL PLATE WELDED TO BOTTOM [MATCH OVERALL WIDTH OF EXISTING WALL]. REFER TO DETAIL 6/S2.0 FOR ADDITIONAL INFO.

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JONATHAN MICHAEL REIS
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PROFESSIONAL ENGINEER

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL RENOVATIONS

417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/2025
JOB NO.	-
DRAWN	JMR
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TITLE
FOUNDATION PLAN

SHEET NO.
S1.0

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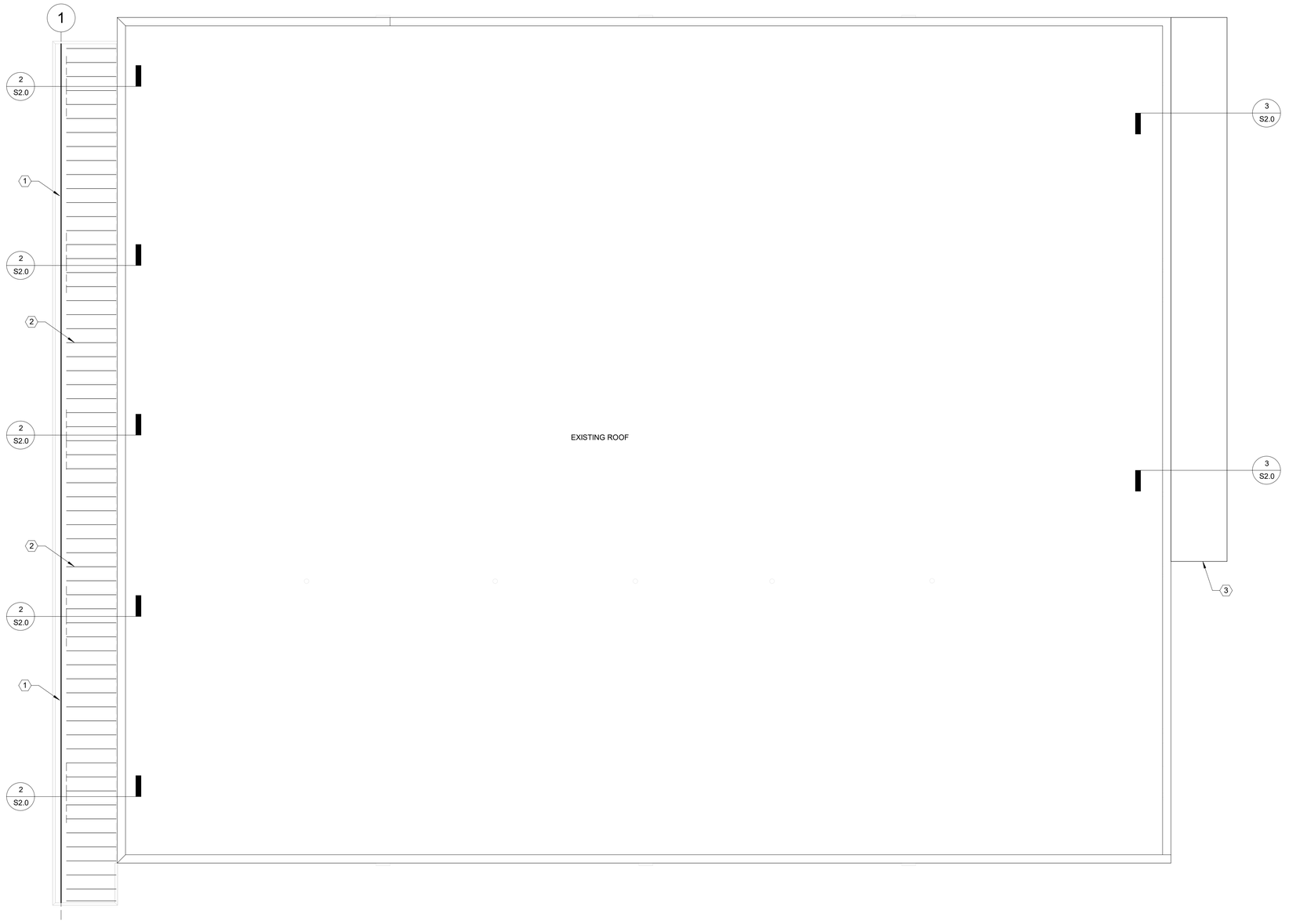

PLAN NOTES:

1. W8x18 STEEL BEAM.
2. 800S162-54 (50 KSI) JOISTS AT 24" O.C. TYP. PROVIDE DOUBLE JOIST AT 8'-0" O.C. PER DETAIL 2/S2.0.
3. PRE-FABRICATED CANOPY (BY OTHERS).

FRAMING NOTES:

1. TOP OF STEEL BEAM ELEVATION = 111'-6 1/2".
2. PROVIDE 5/8" OSB ROOF SHEATHING w/ #8 SCREWS AT 6" O.C. [EDGE] & 12" O.C. [FIELD], TYP.

1 ROOF FRAMING PLAN
1/8" = 1'-0"

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TITLE
ROOF FRAMING PLAN

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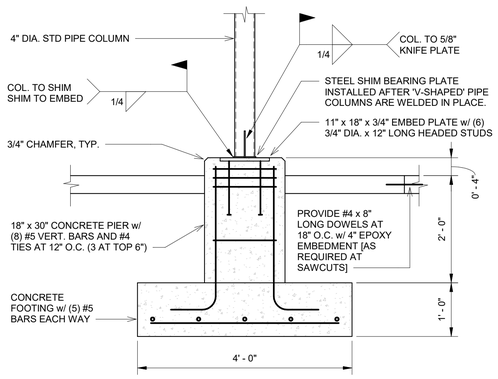
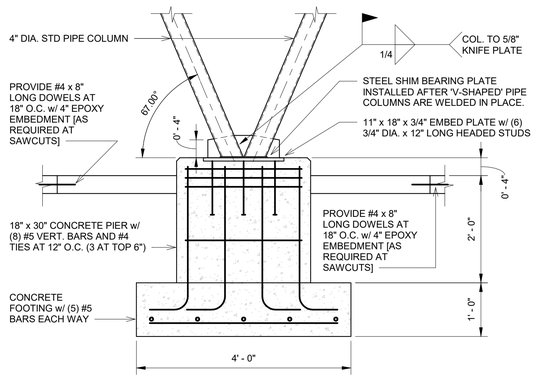
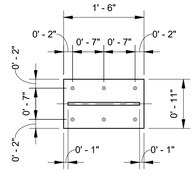
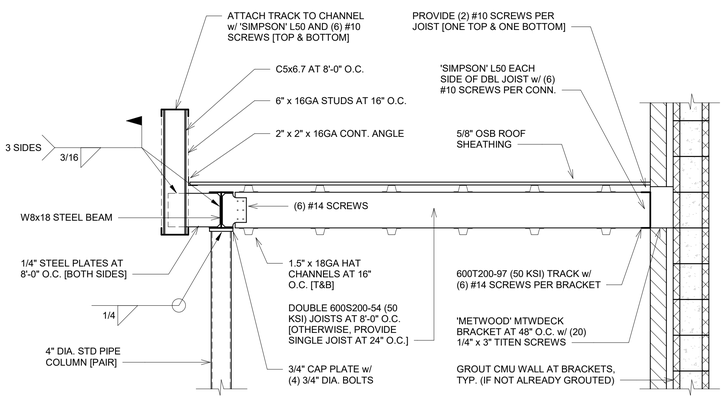


1 FND DETAIL - CONCRETE PIER
3/4" = 1'-0"

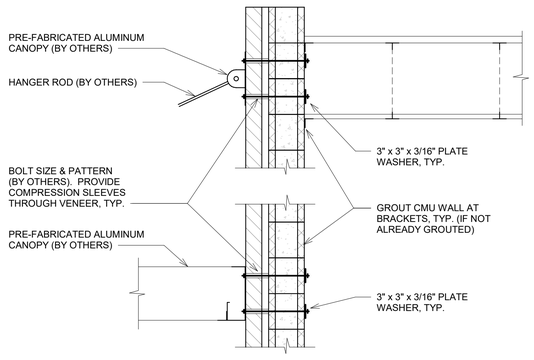




EMBED PLATE DETAIL:



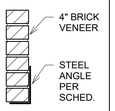
2 FRM DETAIL - SOUTH CANOPY SECTION
3/4" = 1'-0"



3 FRM DETAIL - NORTH CANOPY SECTION
3/4" = 1'-0"

BRICK LINTEL SCHEDULE

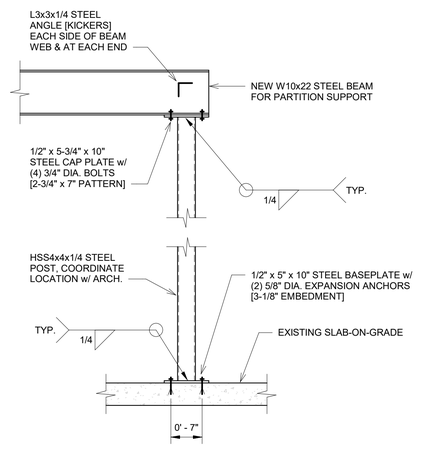
OPENING WIDTH	SUPPORT ANGLE SIZE	MIN. BRG. EA. END
UP TO 3'-6"	L 3-1/2 x 3 x 1/4 (LLH)	4"
UP TO 4'-6"	L 3-1/2 x 3-1/2 x 1/4	4"
UP TO 5'-6"	L 4 x 3-1/2 x 1/4 (LLV)	6"
UP TO 7'-0"	L 5 x 3-1/2 x 1/4 (LLV)	6"
UP TO 8'-0"	L 6 x 3-1/2 x 5/16 (LLV)	6"
UP TO 10'-0"	L 6 x 3-1/2 x 3/8 (LLV)	7"



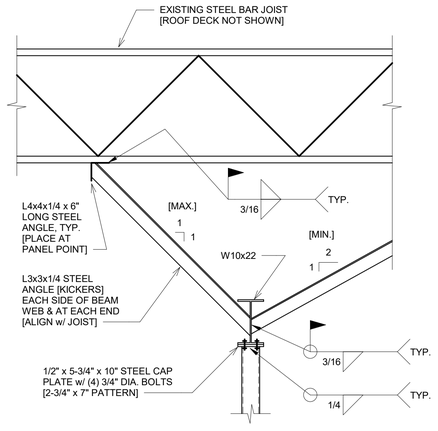
SECTION

ADDITIONAL REMARKS:

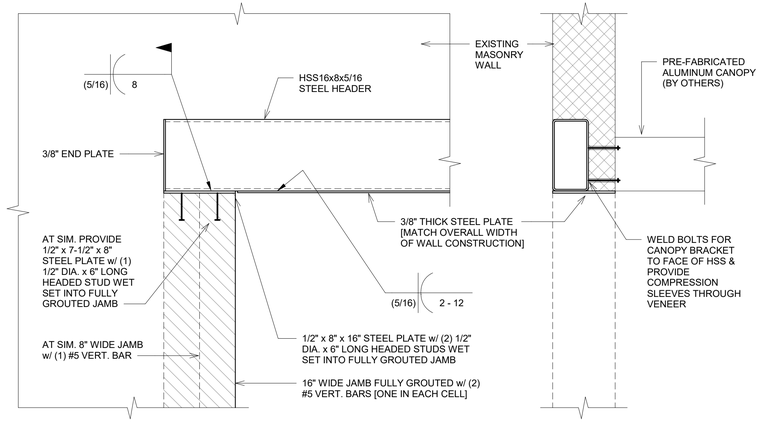
1. USE ABOVE ANGLE SIZES AT ALL MASONRY OPENINGS EXCEPT WHERE DETAILED OTHERWISE.
2. SEE ARCH. DRAWINGS FOR LOCATION AND SIZE OF MASONRY OPENINGS.



4 FRM DETAIL - PARTITION SUPPORT
3/4" = 1'-0"



5 FRM DETAIL - PARTITION SUPPORT (BRACING)
3/4" = 1'-0"



6 FRM DETAIL - STEEL HEADER AT O.H. DOOR
3/4" = 1'-0"

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STRUCTURAL DETAILS

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PIPE HANGER SCHEDULE - PLUMBING

GENERAL NOTES FOR PIPE HANGERS:

DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.

DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

ATTACHMENT OF PIPE HANGER RODS TO THE STRUCTURE SHALL BE WITH:
1. PRE-SET CONCRETE INSERTS.
2. AFTER-SET STEEL EXPANSION TYPE CONCRETE INSERTS.
3. BEAM CLAMPS FOR STEEL CONSTRUCTION EQUAL TO ANVIL FIG. 92, 93, OR 94. UTILIZE SWIVEL TYPE IN SLOPED STEEL CONSTRUCTION TO PROVIDE VERTICAL SUPPORT OF PIPE WITHOUT BENDING HANGER RODS.
4. SIDE BEAM BRACKET FOR WOOD CONSTRUCTION EQUAL TO ANVIL FIG. 206.
5. CHANNEL SUPPORT SYSTEM EQUAL TO UNISTRUT OR HILTI.

ATTACHMENT TO MANUFACTURED TRUSSES AND OTHER ENGINEERED STRUCTURAL MEMBERS AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TYPE OF ENGINEERED STRUCTURAL SYSTEMS BEING USED. CONNECTIONS TO THESE STRUCTURAL MEMBERS SHALL BE MADE WITH CONNECTION DEVICES AND METHODS APPROVED BY THE STRUCTURAL MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS WITH SUPPLEMENTAL STEEL SHAPES WHEN SPACING BETWEEN STRUCTURAL MEMBERS EXCEEDS SPECIFIED DISTANCES.

ADJUST PIPE HANGERS TO PROPER ELEVATION AND SET HANGER RODS IN A VERTICAL POSITION BEFORE PIPE INSULATION IS INSTALLED.

THE FIRST TWO HANGERS ON PIPING CONNECTING TO MOTOR DRIVEN EQUIPMENT SHALL BE FITTED WITH A STEEL SPRING AND NEOPRENE VIBRATION ISOLATION SECTION SIMILAR TO MASON INDUSTRIES, NO. 30N.

TRAPEZE HANGERS FOR NUMEROUS PIPES RUN IN PARALLEL MAY BE UTILIZED. HORIZONTAL SUPPORT MEMBERS SHALL BE UNISTRUT TYPE SECTION WITH PIPE ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) AND SPRING AND NUT CONNECTORS, SUSPENDED WITH HANGER RODS AND ATTACHMENTS SIMILAR TO INDIVIDUAL PIPE HANGER SUSPENSION.

SHORTENED EXTENDED LEGS OF PIPE RISER CLAMPS AS NEEDED TO MAINTAIN CONCEALMENT OF THE CLAMP WITHIN THE PIPE CHASE. INSURE THAT ADEQUATE SUPPORT IS STILL MAINTAINED.

HANGER ASSEMBLIES EXPOSED ON COMPLETION OF THE PROJECT SHALL BE PAINTED BEFORE INSTALLATION.

PIPE SUPPORTS FOR PIPE RUNNING ACROSS THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AS DETAILED. INSTALL PROTECTIVE SLIP SHEETS OF ROOFING MEMBRANE UNDER THE BASES TO SATISFY REQUIREMENTS OF BOTH THE ROOFING MANUFACTURER AND THE SUPPORT SYSTEM MANUFACTURER.

IN PIPING SYSTEMS WITH MECHANICAL JOINT COUPLINGS, PIPE HANGERS SHALL BE PROVIDED ON HORIZONTAL PIPING AT NORMAL SPECIFIED INTERVALS AND, IN ADDITION, SO THAT NO PIPE SHALL BE LEFT UNSUPPORTED BETWEEN ANY TWO COUPLINGS NOR LEFT UNSUPPORTED WHENEVER A CHANGE IN DIRECTION TAKES PLACE. VERTICAL PIPING SHALL BE SUPPORTED AT NORMAL SPECIFIED INTERVALS OR EVERY OTHER PIPE LENGTH, WHICH EVER IS MORE FREQUENT. THE BASE OF THE RISER OR BASE FITTING SHALL BE SUPPORTED.

SYSTEM & SIZE	ORIENTATION & SIZE	SPACING
STEEL PIPING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 2" & SMALLER	8 FT.
	HORIZONTAL 2.5" - 6"	10 FT.
	HORIZONTAL 8" & LARGER	12 FT.
CAST IRON	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18" FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CISPI "SOIL PIPE AND FITTINGS HANDBOOK"
COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 1.25" & SMALLER	6 FT.
	HORIZONTAL 1.5" - 2"	8 FT.
	HORIZONTAL 2.5" & LARGER	10 FT.
PLASTIC PIPING	VERTICAL	PER MANUFACTURER'S RECOMMENDATION
	HORIZONTAL	PER MANUFACTURER'S RECOMMENDATION

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	CONNECTIONS H.W.	C.W.	SAN.	MTG. HGT.	TRIM REQUIREMENTS SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	NOTES
W1	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MaP SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 3043.001	--	1"	4"	--	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	--	SEAT BEMIS # 1950SS	
U1	URINAL/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.0 GPF/ WASHOUT/ ACCESSIBLE	AM. STANDARD # 6590.001	--	3/4"	2"	17" TO LIP	SLOAN # SLOAN 186-1.0	UNIT	UNIT	INTEGRAL	ZURN # Z1222	--	
U2	URINAL/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.0 GPF/ WASHOUT/	AM. STANDARD # 6590.001	--	3/4"	2"	24" TO LIP	SLOAN # SLOAN 186-1.0	UNIT	UNIT	INTEGRAL	ZURN # Z1222	--	
L1	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ 2-HANDLED CAST BRASS FAUCET/ 0.5 GPM/ ASSE 1070 DEVICE/ ACCESSIBLE	BY OTHERS	1/2"	1/2"	1 1/4"	--	ELKAY # LK402L2	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	--	POWERS # LFE480	
L2	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ 2-HANDLED CAST BRASS FAUCET W 5" GOOSENECK/ 1.5 GPM/ ASSE 1070 DEVICE/ ACCESSIBLE	BY OTHERS	1/2"	1/2"	1 1/4"	--	ELKAY # LK800GN05L2	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	--	POWERS # LFE480	
S1	SINK/ UNDERMOUNT/ DOUBLE BOWL/ 14 1/2" x17" x 9" DEEP BOWLS/ 2-HANDLED CAST BRASS FAUCET W 8" GOOSENECK & SPRAY/ DISPOSAL WITH 3 STAGE GRIND, PLUG & CORD	ELKAY # ECTRU31179T	1/2"	1/2"	(2) 1 1/2"	--	ELKAY # LK801GN08L2	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912 & # 111	--	INSINKERATOR # PRO 750 120V,3/4HP	
S2	SINK/ ST. ST./ UNDERMOUNT/ SINGLE BOWL/ 17" X 17" X 9" DEEP BOWL/ 2-HANDLED CAST BRASS FAUCET W 8" GOOSENECK & SPRAY	ELKAY # ECTRU17179T	1/2"	1/2"	1 1/2"	-	ELKAY # LK801GN08L2	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912	--	--	
SS1	SERVICE SINK/ WALL HUNG/WALLHUNG/ ST. ST./ WALL MOUNTED FAUCET/ INTEGRAL STOPS/ TRAP STANDARD 25" ..	ELKAY # ESS2520	1/2"	1/2"	3"	30" TO RIM	ELKAY # LK940BP07L2S	UNIT	UNIT	ELKAY # LK-173	UNIT	--	
SS2	SERVICE SINK/ WALL HUNG/WALLHUNG/ ST. ST./ WALL MOUNTED FAUCET/ INTEGRAL STOPS/ 25" X 19 1/2" X 12"...	ELKAY # ESS2520	1/2"	1/2"	1 1/2"	30" TO RIM	ELKAY # LK940BP07L2S	UNIT	ELKAY # LK42RT	MCGUIRE # 8912	UNIT		
SS3	SERVICE SINK/ FLOOR SET/ hEAVY DUTY PLASTIC/ SINGLE BOWL 20" X 24"/ DECK MOUNTED FAUCET	FIAT # SF-1-W	1/2"	1/2"	1 1/2"	--	ELKAY # LK406AT10L2	MCGUIRE # LFBV2165	UNIT	MCGUIRE # 8912	--	--	
E1	EMERGENCT EYEWASH/ WALL HUNG/ ST,. ST. BOWL/ ASSE 1072 MIXIN VAH ACCESSIBLE	GUARDIAN # G1750	3/4"	3/4"	1 1/2"	33" TO RIM	UNIT	BALL VALVES	UNIT	MCGUIRE # 8912	--	GUARDIAN # G6020	
SH1	SHOWER/ STALL BY OTHERS/ CENTER DRAIN STYLE/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2"	1/2"	3"	VALVE 40" HEAD 78"	ZURN # Z7301-SS-MT-DV-2P-HW-H9-S9	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
M1	MOP SINK/ FLOOR SET/ 24" SQ. 10" DEEP/ MOLDED STONE/ VINYL. CAPS/ ST.ST. WALL PANELS/ ON 2 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS	FIAT # MSB2424	1/2"	1/2"	3"	36" FAUCET	ELKAY # LK940BP07L2S	UNIT	UNIT	SAME AS SANITARY PIPING	--	FIAT # E-88-AA , # MSG2424	
BF1	DRINKING FOUNTAIN W BOTTLE FILLER/ WALL SURFACE MOUNTED/ FILTERED/ REFRIGERATED/ ACCESSIBLE	ELKAY # LZS8WSSP-PF	--	1/2"	1 1/4"	34" TO RIM	UNIT	BALL VALVE	UNIT	CAST BRASS	ZURN # Z1225		
WB1	WASHER UTILITY CONNECTION BOX/ 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR/ WASTE CONNECTION	OATEY # 38642	3/4"	3/4"	2"	30"	UNIT	BALL VALVES ABOVE CEILING	UNIT	SAME AS SANITARY PIPING	--	--	
WB2	WATER CONNECTION BOX/ 1/4 TURN BALL VALVE/ WATER HAMMER ARRESTOR/ 6' ST. ST. HOSE	OATEY # 39142	--	1/2"	-	24"	UNIT	BALL VALVE ABOVE CEILING	--	--	--	--	
H1	WALL HYDRANT/ ENCASED/ NON-FREEZE/ ANTI-SIPHON/ AUTOMATIC DRAINING/ 1/2 TURN CERAMIC DISC/ WALL CLAMP	ZURN # Z1320XL-EZ-WC		3/4"	-	APPROX. 24"	--	--	--	--	--	--	1.

EQUALS

AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN

ELKAY FAUCETS - ZURN, CHICAGO, T&S BRASS

SLOAN FLUSH VALVES - ZURN, DELANEY

ELKAY SINKS - JUST, ACORN, ADVANCED TABCO

MCGUIRE - WATTS, CHICAGO

MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"

OATEY SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF

NOTES:

1. COORDINATE MOUNTING HEIGHT WITH MASONARY COURSING.

GENERAL NOTES - PLUMBING

A. ALL WORK SHALL BE N ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDING AND PLUMBING CODES, INCLUDING REFERENCED CODES AND STANDARDS.

B. OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.

C. REMOVE ALL ABANDONED PIPING & SUPPORTS.

D. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES. ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.

E. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND SMOKE PARTITIONS.
IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT, SEE SPECIFICATIONS.

F. P.C. SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO INSTALL THEIR WORK.

G. REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.

H. ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.

I. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.

DRAIN SCHEDULE

DRAIN TYPES
FD - FLOOR DRAIN
FS - FLOOR SINK
CO - CLEAN OUT - FLOOR
WCO - CLEAN OUT - WALL
AD - AREA DRAIN
TD - TRENCH DRAIN
RD - ROOF DRAIN
SRD - SECONDARY ROOF DRAIN
SSO - SECONDARY STORM OUTLET

MATERIAL ABBREVIATIONS
BR - BRASS
AL -POWDERCOATED ALUMINUM
P - PLASTIC
CI - CAST IRON
NB - NICKEL BRONZE
DI - DUCTIL IRON

TAG	MODEL NUMBER	BODY MATERIAL	OUTLET SIZE	OUTLET BOTTOM	OUTLET SIDE	TOP/STRAINER SIZE	ADJUSTABLE	DOME	FLAT	FUNNEL	MATERIAL	HALF OPEN	SECONDARY STRAINER	FEATURES ANCHOR FLANGE	FLASHING CLAMP	DBL. DRAINAGE	SED. BUCKET	BEARING PAN	HINGED PERF. COVER	FUNNEL	TRAP PRIMER CONN.	TRAP SEAL - ASSE 1072	NOTES
FD1	SIOUX CHIEF # 863-43NQ	P	3"	•		7" SQ.	•		•		NB			•		•						•	
FD2	SIOUX CHIEF # 863-435NR W/ # 863FN	P	3"	•		6 1/2" DIA.	•		•		NB			•		•				•		•	
FD3	SIOUX CHIEF # 860-63IF	CI	3"	•		9 1/4" DIA.				•	CI			•						•			
FD4	SIOUX CHIEF #861-4P26	P	4"	•		11 3/16" SQ.			•		P	•	•										
TD1	ZURN #Z886-HD W/ #DGE GRATE	P	3"	•		6" WIDE 2 SECT. 160" L			•		DI												
TD2	ZURN #Z886-HD W/ #DGE GRATE	P	3	•		6" WIDE 6 SECT. 480" L			•		D1												
TD3	ZURN #Z886-HD W/ #DGE GRATE	P.	3"	•		6" WIDE 5 SECT. 400" L			•		D1												
CO	ZURN # ZN1400-K	CI	AS NOTED	•			•		•		NB												
SSO	ZURN # ZF199-DSG	AL	6"		•				•		AL								•				3.

NOTES:

1. COLOR SELECTION BY ARCHITECT.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
ES	EQUIPMENT SUPPLIER.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
B / H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

PLUMBING LEGEND

	SANITARY DRAIN ABOVE FLOOR OR GRADE
ST	STORM DRAIN ABOVE FLOOR OR GRADE
SST	SECONDARY STORM DRAIN ABOVE FLOOR
	VENT
	COLD WATER
	HOT WATER
	HOT WATER RETURN
A	COMPRESSED AIR
C.O.	CLEAN OUT
	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
	CHECK VALVE
	BALANCING VALVE
	VALVE ON RISER
	UNION, SCREWED
R	REGULATOR
P	PRESSURE GAUGE
T	TEMPERATURE GAUGE
	CONNECTION, BOTTOM
	CONNECTION, TOP
	DIRECTION OF FLOW
	CAP
V.R.	VENT RISER
V.T.R.	VENT THRU ROOF
S.S.	SOIL STACK
V.S.	VENT STACK
D.S.	DOWNSPOUT (STORM)
S.D.S.	SECONDARY DOWNSPOUT (STORM)
S.S.O.	SECONDARY STORM OUTLET

PLUMBING INDEX OF DRAWINGS

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TITLE
LEGENDS AND SCHEDULES

SHEET NO.
P0.1

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VALVE SCHEDULE

GENERAL NOTES FOR VALVES:

QUALITY ASSURANCE
VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.

VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

GROOVED END VALVES SHALL CONFORM TO ANSI/AWWA C-606.

PRODUCTS
WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.

VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.

PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.

PROVIDE HOSE ADAPTORS ON DRAIN VALVES.

SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF SCREWED ENDS.

IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:
BALL VALVES - NIBCO, WATTS, MILWAUKEE, APOLLO, CONBRACO, CRANE.
BALANCING VALVES - BELL & GOSSETT, ARMSTRONG, WATTS, CALEFFI.
CHECK VALVES - NIBCO, STOCKHAM, WATTS.

EXECUTION
VALVES SHALL BE INSTALLED WITH STEM ABOVE CENTERLINE OF PIPE.

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER SERVICE 2" AND LARGER				D18		
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11, B14	C11, C13		E11	
DOMESTIC WATER (CW, HW, & HWR) 2.5" AND LARGER		B14	C12, C14 C16			
COMPRESSED AIR (150 PSI AND LESS) 2" AND SMALLER		B15				

TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., TWO-PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND BRONZE STEM, TFE SEAT AND SEAL, HANDLE. NSF/ASME 61
B14	APOLLO 70LF-240, 150 WSP TWO-PIECE, LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, STANDARD PORT, TEFLON SEAT AND SEAL, HANDLE, NSF/ASME 61
B15	NIBCO T-580-CS-R-66 1500 W.O.G., TWO-PIECE CARBON STEEL BODY, SCREWED ENDS, STAINLESS STEEL BALL AND STEM, TFE SEAT AND SEAL, HANDLE.
D18	KENNEDY KS-FW 8068A, 200 PSI, NSF 61 EPOXY COATED CAST IRON BODY, RESILIENT WEDGE, O.S.& Y., FLANGED ENDS
C11	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING. NSF 61
C12	NIBCO T-938-33, 250 PSI WORKING WATER PRESSURE., DUCTILE IRON BODY, STAINLESS STEEL TRIM, FLANGED ENDS, RENEWABLE STAINLESS STEEL SWING DISC AND SEAT RING. NSF/ANSI 61-8
C13	NIBCO T-480-Y-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK,BRONZE BODY, SCREWED ENDS, TFE DISC AND SEAT RING, NSF/ASME 61
C14	NIBCO F-910-LF 125 W.O.G., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, GLOBE STYLE, IRON BODY FOR INSTALLATION BETWEEN FLANGES, BRONZE SEAT AND DISC. NSF/ASME 61
C16	WATTS SERIES LFWCV, 125 W.S.P., BRONZE BODY, SCREWED ENDS, BRONZE SWING DISC, NSF/ASME 61
E11	BELL & GOSSETT CB-1LF 400 PSI, BRONZE BODY WITH BRASS BALL, SCREW CONNECTION, READOUT & DRAIN PORTS, TFE SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61

PIPE INSULATION SCHEDULE - PLUMBING

GENERAL NOTES:

QUALITY ASSURANCE
FIRE, SMOKE RATINGS: FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.

THICKNESSES SHALL CONFORM TO ASHRAE 90.1-2010 MINIMUMS.

GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

EXECUTION
INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.

INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING. PROVIDE HARDWOOD INSERT SUPPORT FOR PIPES 2.5" AND LARGER.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT CONDENSATION.

INSULATION MAY BE OMITTED ON HOT WATER VALVES AND DEVICES 2" AND SMALLER PIPE SIZE.

PRIMARY AND SECONDARY ROOF DRAIN SUMPS SHALL BE INSULATED WITH 1" THICK INSULATION.

THE FIRST 10 FEET OF SECONDARY STORM PIPING AFTER THE DRAIN SHALL BE INSULATED.

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1	INTERIOR
DOMESTIC COLD WATER 2" & LARGER	1"	F1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLER	1"	F1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.5" AND LARGER	1.5"	F1	INTERIOR
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1	INTERIOR
CONDENSATE DRAINAGE	1"	F1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL1-ASJ	KNAUF 1000° PIPE, JOHNS MANVILLE MICRO-LOK HP	* INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.5 PCF. * PREFORMED TUBULAR. * WHITE FSRK JACKET. * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWR) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

PRODUCTS
DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE. VALVE 125 PSI. SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIMETER.

UNIONS
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS
THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.

MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.

TESTING
DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.

COMPRESSED AIR PIPING - 200 PSI FOR 6 HOURS.

PIPING SYSTEM	TYPE
DOMESTIC COLD, HOT AND RECIRCULATING WATER	C1, C4, C5
DOMESTIC COLD WATER BELOW GRADE	C8, PX1
COMPRESSED AIR 2.5" & SMALLER	C1, S2, S3

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	**SOLDERED COPPER** TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	S2	**THREADED BLACK STEEL** SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
C4	**GROOVED COPPER** TYPE "L" HARD COPPER ASTM B88 COPPER ASTM B75 UNS C12200 FITTINGS VICTAULIC STYLE 607 COUPLING	S3	**THREADED GALVANIZED STEEL** SCHEDULE 40, ASTM A53 TYPE E OR F CLASS 300 FITTINGS W/ PTFE TAPE ASME B16.3
C5	**PRESS-FIT COPPER** TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	PX1	**PEX TUBING** CROSSLINKED POLYETHYLENE TUBING, SDR 9, ASTM F877 METAL INSERT FITTINGS WITH COPPER OR STEEL CRIMP RING
C8	**TYPE "K" SOFT COPPER** ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER		

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

ON PIPING 5" AND LARGER PROVIDE BRACING AT EVERY BRANCH OPENING OR CHANGE IN DIRECTION AS REQUIRED BY CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

INSTALL PVC SOIL AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.

PRODUCTS
PVC PIPING SHALL NOT BE USED IN SPACES USED AS PLENUMS.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

SLOPE DRAINAGE PIPING AT 1/4" PER FOOT (2%) FOR PIPING SMALLER THAN 3" AND 1/8" PER FOOT (1%) FOR PIPING 3" AND LARGER.

VENT PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

COUPLINGS AND GASKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL.

DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

TESTING
PIPING SHALL BE TESTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

PIPING SYSTEM	TYPE
SANITARY PIPING BELOW FLOOR SLAB IN GRADE	P1
SANITARY & VENT PIPING ABOVE THE FLOOR	CI1, CI2
STORM DRAINAGE BELOW THE FLOOR IN SLAB	P1
STORM DRAINAGE ABOVE FLOOR	CI1, CI2
INDIRECT DRAINS/CONDENSATE DRAIN LINES 1" & SMALLER	C1, C5, C8

TYPE	DESCRIPTION	TYPE	DESCRIPTION
CI1	**NO-HUB CAST IRON (STD)** SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	C1	**SOLDERED COPPER** TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
CI2	**HUB & SPIGOT CAST IRON** ASTM A74, SERVICE CLASS DWV FITTING RUBBER GASKET ASTM C564	C5	**PRESS-FIT COPPER** TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS
P1	**PVC** SCHEDULE 40 PVC ASTM D2665 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS	C8	**TYPE "K" SOFT COPPER** ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER

NOTE:
IN ABOVE CEILINGS SPACES USED AS RETURN AIR PLENUMS, SANITARY,STORM, AND VENT PIPING SHALL BE CAST IRON TYPE C1 OR C2. COORDINATE WITH H.C. FOR RETURN AIR PLENUMS LOCATIONS

SANITARY, STORM, AND VENT PIPING ABOVE THE FLOOR SLAB AND WITHIN WALLS MAY BE PVC TYPE P1, ONLY IF ALL (ALL TRADES) WALL PENETRATIONS ARE SEALED TO PREVENT THE PASSAGE OF SMOKE INTO RETURN AIR PLENUMS. TRANSITION TO CAST IRON SHALL OCCUR WITHIN THE WALL.

GENERAL REQUIREMENTS

1. PROVIDE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS PER PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND OHIO PLUMBING CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND/OR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
8. PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
9. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
10. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
11. PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. HVAC CONTRACTOR SHALL PROVIDE AN INITIAL ¼" =1'0" SET OF DRAWINGS AND DISTRIBUTED TO OTHER TRADE CONTRACTORS FOR COORDINATION. ALL CONTRACTORS SHALL COOPERATE TO MODIFY THEIR RESPECTIVE MATERIAL AND EQUIPMENT INSTALLATION AND DEPICT ON A DETAILED, FINISHED COORDINATION SET OF DRAWINGS BEFORE INSTALLATION. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
12. CUT EXISTING FLOOR SLAB AND REPLACE TO MATCH EXISTING GRADE, MATERIALS, AND FINISH. EXCAVATE FOR ALL IN GRADE UNDERFLOOR PIPING. BACKFILL AND REPLACE SLAB TO MATCH ADJACENT SURFACE OR GRADE. PUMP WATER FROM EXCAVATIONS AND TRENCHES DURING CONSTRUCTION. EXISTING SERVICES ENCOUNTERED DURING EXCAVATION WORK SHALL BE PROTECTED. ANY SERVICES DAMAGED SHALL BE REPAIRED OR REPLACED. PIPE SHALL BE LAID ON A 6" MINIMUM SAND BED. BACKFILLING OF TRENCHES SHALL BE WITH GRADED PEA GRAVEL OR GRADED COURSE SAND. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
13. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
14. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
15. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
16. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
17. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
18. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
19. INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
20. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
21. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
22. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
23. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
24. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 8 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

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TITLE
MATERIAL SCHEDULES

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P0.2

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PROJECT # 24021

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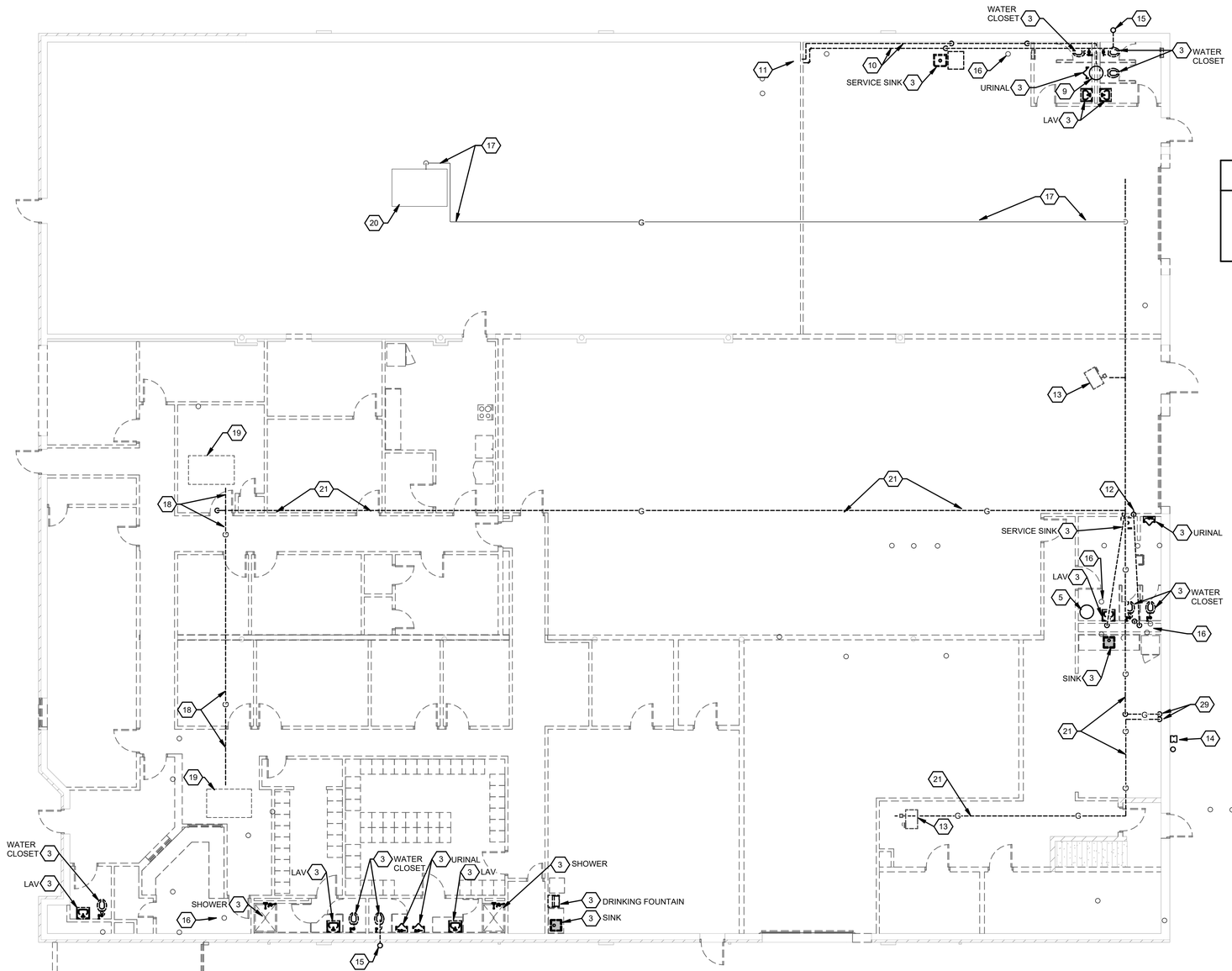


FIRST FLOOR DEMOLITION PLAN

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

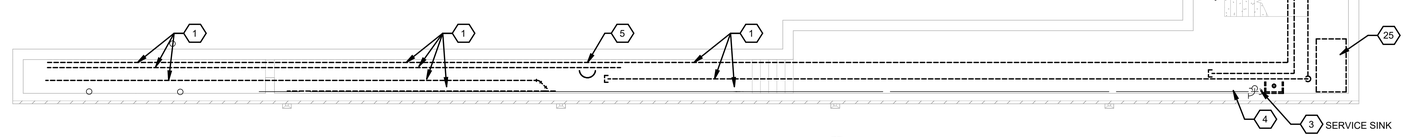
CUTTING AND PATCHING NOTE

A. THE P.C. IS RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING DRYWALL CEILING AT THE UNDERSIDE OF THE ROOF STRUCTURE AS REQUIRED FOR THEIR WORK.

B. THE P.C. IS RESPONSIBLE FRO CUTTING AND PATCHING OF EXISTING FLOOR SLAB AS REQUIRED FOR THEIR WORK.

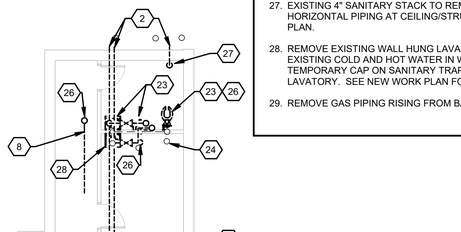
GENERAL DEMOLITION NOTES

REMOVE ALL EXISTING FIXTURES AND PIPING UNLESS SPECIFICALLY NOTED TO REMAIN. G.C. TO PATCH EXTERIOR WALLS.
REMOVE PIPING UNDER THE SLAB, IN GRADE WHERE ENCOUNTERED AND CAP REMAINING PIPING BELOW THE FLOOR AND ABANDON.



BASEMENT DEMOLITION PLAN

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



CONSTRUCTION NOTES

1. REMOVE ALL EXISTING DOMESTIC WATER, SANITARY, AND ABANDONED SANITARY PIPING FROM TUNNEL. THERE ARE MULTIPLE LOCATIONS WHERE UTILITIES SERVE FIXTURES ON FLOOR ABOVE IN THIS AREA. ONLY MAIN PIPING IS INDICATED FOR CLARITY.
2. PIPING RUN CONTINUES THROUGH SLAB ON GRADE. REMOVE PIPING TO BASEMENT WALL AND CAP FLUSH WITH WALL. ABANDON PIPING IN GRADE.
3. REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING TO FIXTURE.
4. LOCATION OF MAIN SANITARY PIPING LEAVING BUILDING. REMOVE EXISTING PVC SANITARY PIPING TO WYE CLEANOUT. REFER TO NEW WORK PLANS FOR NEW SANITARY PIPE ROUTING.
5. REMOVE WATER HEATER.
6. REMOVE EXISTING WATER SERVICE. COORDINATE REMOVAL WITH G.C. REFER TO NEW WORK PLAN AND CIVIL SITE UTILITY PLAN FOR DOMESTIC WATER SERVICE ENTRANCE.
7. EXISTING NATURAL GAS SERVICE PIPING UP TO EXISTING METERS. SERVICE TO BE REMOVED/ ABANDONED BY CENTERPOINT.
8. REMOVE HUB & SPIGOT DRAIN STACK AND ALL ASSOCIATED PIPING. PROVIDE NEW FLOOR CLEANOUT IN FLOOR SET FLUSH WITH FLOOR. SEE NEW WORK PLAN.
9. REMOVE WATER HEATER ABOVE CEILING AND ALL ASSOCIATED PIPING.
10. REMOVE ALL EXPOSED DOMESTIC WATER, SANITARY, AND VENT PIPING ON WALL.
11. EXISTING WATER FOUNTAIN TO REMAIN. REMOVE SERVICE PIPING. REFER TO NEW WORK PLAN FOR NEW CONNECTION.
12. REMOVE HOSE BIBB.
13. DISCONNECT AND REMOVE NATURAL GAS PIPING SERVING UNIT HEATER. GAS PIPING IS RUN ABOVE DRYWALL CEILING. TRACE OUT AND REMOVE NATURAL GAS PIPING AFTER CEILING REMOVAL.
14. REMOVE EXISTING GAS METERS (2) AND ALL ASSOCIATED PIPING.
15. REMOVE EXISTING 3" PVC VENT TERMINAL AND ALL ASSOCIATED PIPING.
16. EXISTING 3" VENT THRU ROOF TO REMAIN. SEE NEW WORK PLAN.
17. EXISTING GAS PIPING ON ROOF TO REMAIN.
18. REMOVE EXISTING GAS PIPING AND ASSOCIATED SUPPORTS ON ROOF.
19. EXISTING ROOFTOP UNIT TO BE REMOVED BY H.C. DISCONNECT AND REMOVE GAS PIPING.
20. EXISTING ROOFTOP UNIT TO REMAIN.
21. REMOVE EXISTING GAS PIPING ABOVE DRYWALL CEILING.
22. REMOVE ALL EXISTING WATER AND GAS PIPING IN THIS AREA.
23. REMOVE EXISTING FIXTURE. CAP PIPING AT WALL.
24. REMOVE EXISTING FLOOR TOILET FLANGE AND PROVIDE NEW FLANGE AND CAP FOR FUTURE FIXTURE.
25. REMOVE EXISTING TANK AND ALL ASSOCIATED PIPING.
26. REMOVE EXISTING WATER CLOSET FLOOR FLANGE AND CAP PIPING BELOW FLOOR.
27. EXISTING 4" SANITARY STACK TO REMAIN. REMOVE HORIZONTAL PIPING AT CEILING/STRUCTURE. SEE NEW WORK PLAN.
28. REMOVE EXISTING WALL HUNG LAVATORY. CAP AND ABANDON EXISTING COLD AND HOT WATER IN WALL. PROVIDE TEMPORARY CAP ON SANITARY TRAP ARM FOR FUTURE LAVATORY. SEE NEW WORK PLAN FOR NEW WATER.
29. REMOVE GAS PIPING RISING FROM BASEMENT.

0 4 8 16 24 32 40

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

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TITLE
DEMOLITION PLANS

SHEET NO.
P1.1

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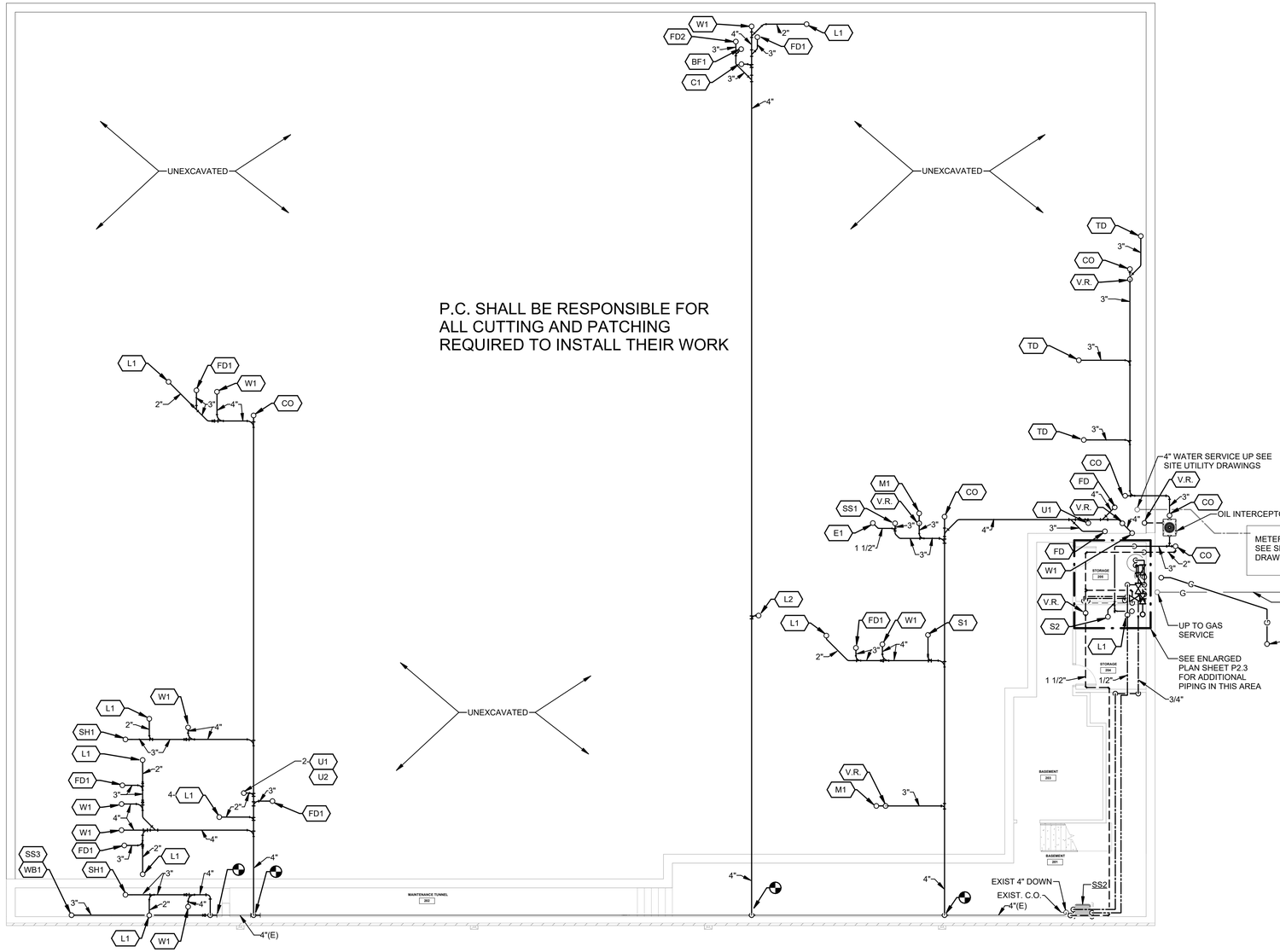
CONSTRUCTION NOTES

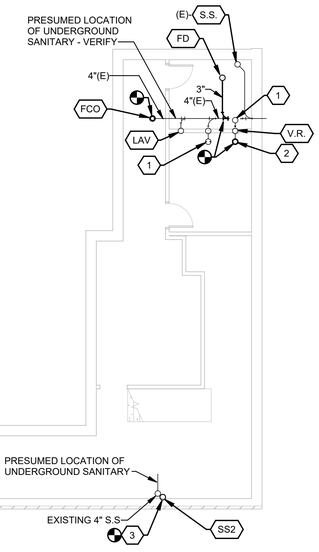
1. CAP SANITARY FROM REMOVED FLOOR FLANGE BELOW FINISHED FLOOR.
2. PROVIDE NEW PLUGGED WATER CLOSET FLOOR FLANGE ON EXISTING PIPING..
3. CONNECT TO EXISTING 1.5" PVC NEAR FLOOR SERVING REMOVED SERVICE SINK.

P.C. SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO INSTALL THEIR WORK



BASEMENT AND FOUNDATION PLAN

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



PARTIAL BASEMENT UNDERFLOOR PIPING

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

0 4 8 16 24 32 40

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

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TITLE
BASEMENT AND FOUNDATION PLAN

SHEET NO.
P2.1

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PROJECT # 24021

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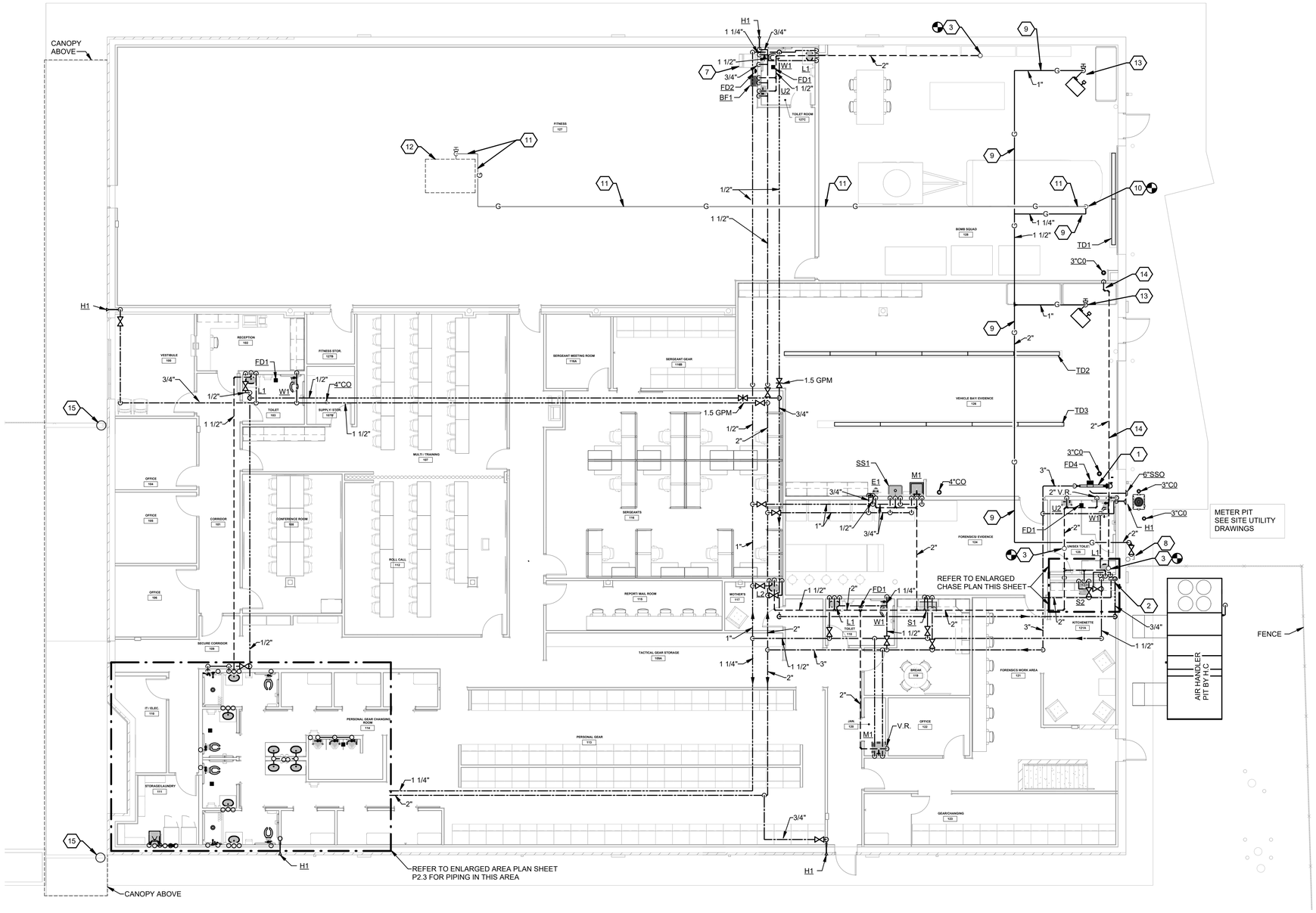


FIRST FLOOR PLAN

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

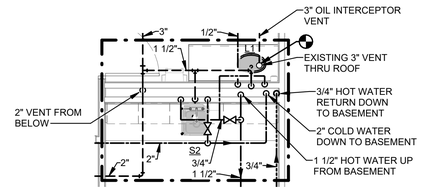
CUTTING AND PATCHING NOTE

A. THE P.C. IS RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING DRYWALL CEILING AT THE UNDERSIDE OF THE ROOF STRUCTURE AS REQUIRED FOR THEIR WORK.

B. THE P.C. IS RESPONSIBLE FRO CUTTING AND PATCHING OF EXISTING FLOOR SLAB AS REQUIRED FOR THEIR WORK.

CONSTRUCTION NOTES

1. WATER SERVICE BACKFLOW PREVENTER SEE DETAIL SHEET P3.1.
2. 1 1/2" COLD WATER, 1 1/2" HOT WATER AND 3/4" HOT WATER RETURN DOWN TO BASEMENT.
3. EXISTING 3" VENT THRU ROOF.
4. DROP 1 1/2" COLD WATER DOWN IN WALL AND OFFSET HORIZONTALLY TO SERVE URINALS. PROVIDE WATER HAMMER ARRESTOR AT TOP OF DROP.
5. PROVIDE WATER HAMMER ARRESTOR AT TOP OF DROP.
6. PIPING NEAR TOP OF FLOOR.
7. ICE MAKER. DROP 3/4" COLD WATER IN ALL TO NEAR FLOOR, VALVE AND CONNECT TO ICEMAKER. PIPE ICE MAKER DISCHARGE TO FLOOR DRAIN.
8. NEW GAS SERVICE REGULATOR AND METER SETTING BY CENTERPOINT. THE P.C. SHALL CONNECT TO OUTLET OF SERVICE ARRANGEMENT AND EXTEND PIPING. DROP 1" DOWN INTO THE GROUND AND EXTEND TO THE GROUND SET HVAC UNIT AND RISE 2" UP TIGHT TO BUILDING WALL AND RUN INTO THE BUILDING ABOVE THE NEW FIRST FLOOR CEILING. SEE DETAIL SHEET P3.1.
9. NEW GAS PIPING TO BE LOCATED BELOW EXISTING DRYWALL CEILING (AT UNDERSIDE OF ROOF STRUCTURE). KEEP PIPING AS HIGH AS POSSIBLE.
10. CONNECT TO EXISTING 1 1/4" GAS (TO ROOF) ABOVE EXISTING DRYWALL CEILING.
11. EXISTING 1 1/4" GAS PIPING ON ROOF ABOVE.
12. EXISTING HVAC UNIT ON ROOF ABOVE TO REMAIN.
13. NEW GAS FIRED UNIT HEATER BY H.C. VALVE AND CONNECT 1" NATURAL GAS TO UNIT. PTOVIDE FULL SIZE DIRT LEG AND UNION AT CONNECTION.
14. VENT PIPING ABOVE THE EXISTING DRYWALL CEILING IN ROOF JOIST SPACE.
15. CANOPY ROOF DRAIN ABOVE. INSTALL ROOF DRAIN IN NEW CANOPY STRUCTURE. G.C. SHALL CONNECT TO OUTLET AND PROVIDE DOWNSPOUT. SEE CANOPY ROOF DRAIN DETAIL SHEET P3.1.



ENLARGED CHASE PLAN

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

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TITLE
FIRST FLOOR

SHEET NO.
P2.2

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PROJECT # 24021

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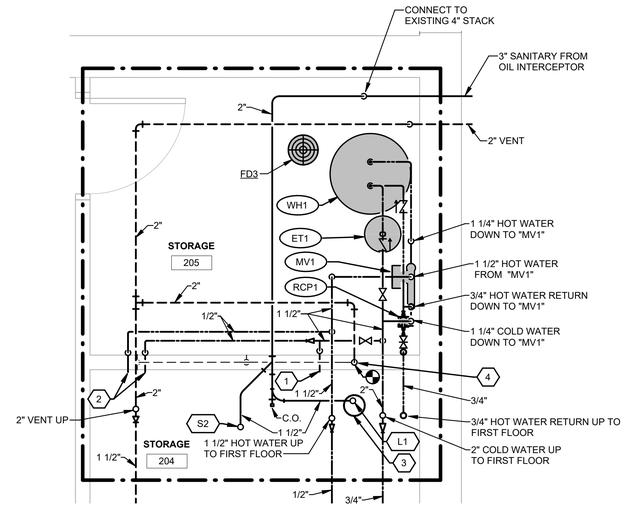
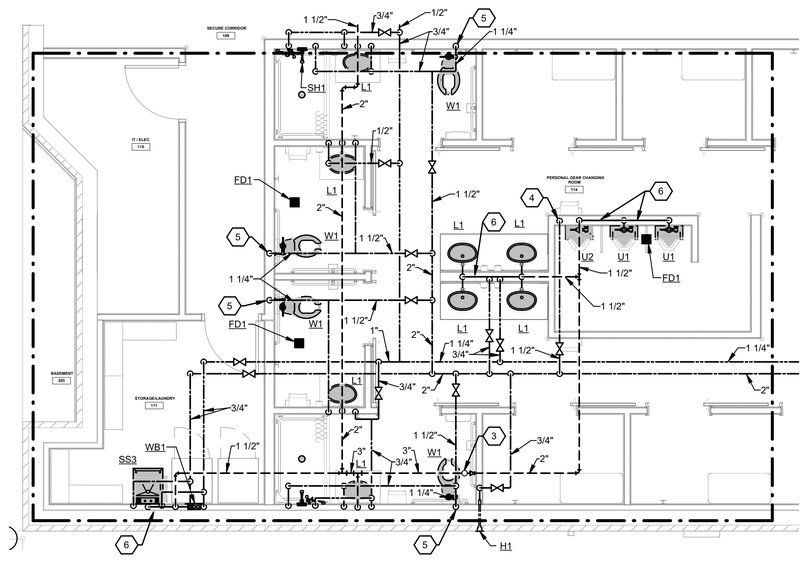
CONSTRUCTION NOTES

1. DROP 1 1/4" COLD WATER EXPOSED ON BACK SIDE OF WALL AND STUB 1" THRU AND CAP FOR FUTURE WATER CLOSET.
2. DROP 1/2" COLD AND HOT WATER EXPOSED ON BACK SIDE OF WALL AND STUB 1" THRU AND CAP FOR FUTURE LAVATORY.
3. REPLACE EXISTING WATER CLOSET FLOOR FLANGE WITH NEW FLOOR FLANGE CAPPED FOR FUTURE WATER CLOSET.
4. CONNECT TO EXISTING 2" VENT IN WALL.



BASEMENT ENLARGED STORAGE ROOM PLAN

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



FIRST FLOOR ENLARGED TOILET ROOM AREA PLAN

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

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TITLE
ENLARGED PLANS

SHEET NO.
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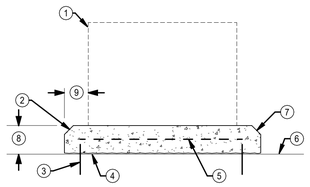
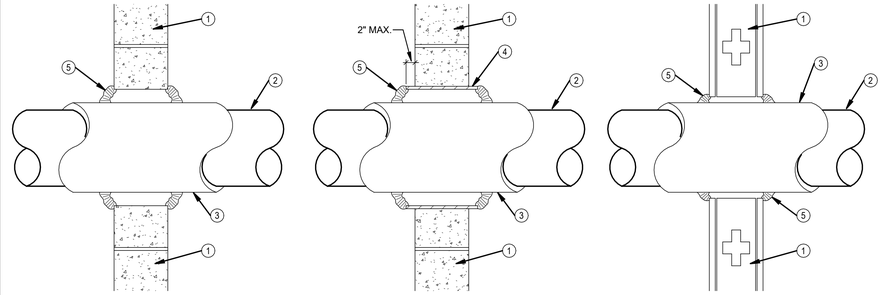


1. OUTLINE OF EQUIPMENT.
2. 4,000 PSI CONCRETE.
3. 1-#4 DOWEL, 6" LONG, EACH CORNER.
4. ROUGHEN SLAB & APPLY BONDING AGENT.
5. STEEL REINFORCING MESH.
6. FINISHED CONCRETE FLOOR.
7. 45 DEG. CHAMFER ALL AROUND.
8. 4" THICK CONCRETE SLAB.
9. MINIMUM 2" DISTANCE.

NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

3 INTERIOR CONCRETE EQUIPMENT PAD
N.T.S.



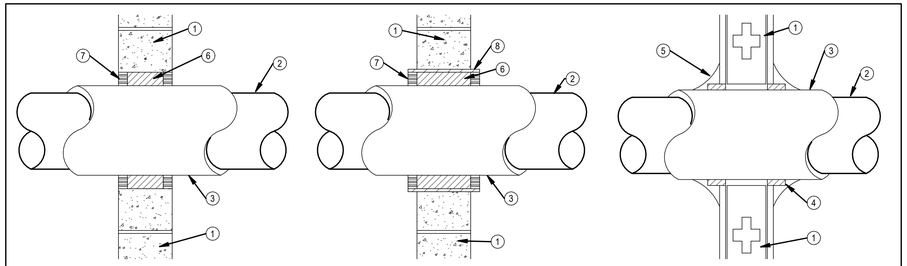
CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

GYPSUM CONSTRUCTION
ALL PIPE SIZES

1. FULL HEIGHT INTERIOR WALL.
2. PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
5. CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

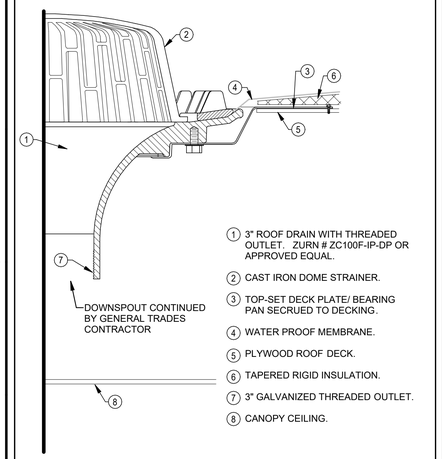
GYPSUM CONSTRUCTION
ALL PIPE SIZES

FIRESTOPPING MATERIALS INSTALLATION

- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

1. RATED WALL ASSEMBLY.
2. METALLIC PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
5. APPROVED FIRESTOPPING CAULK OR SEALANT.
6. PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
7. APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
8. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

1 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.

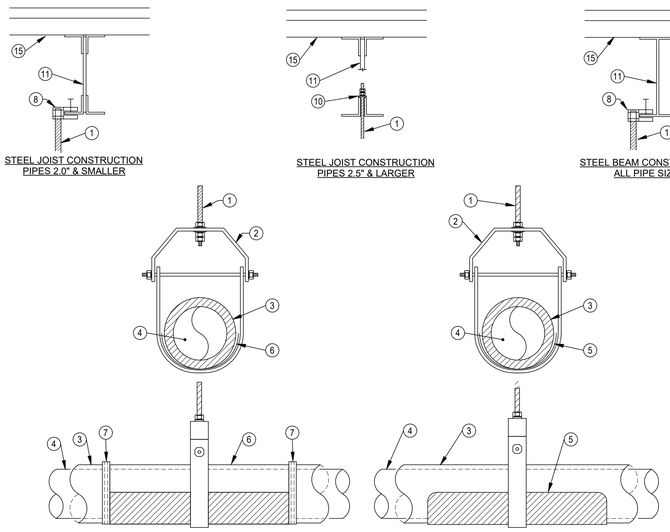


1. 3" ROOF DRAIN WITH THREADED OUTLET. ZURN # ZC100F-IP-DP OR APPROVED EQUAL.
2. CAST IRON DOME STRAINER.
3. TOP-SET DECK PLATE/ BEARING PAN SECRUED TO DECKING.
4. WATER PROOF MEMBRANE.
5. PLYWOOD ROOF DECK.
6. TAPERED RIGID INSULATION.
7. 3" GALVANIZED THREADED OUTLET.
8. CANOPY CEILING.

DOWNSPOUT CONTINUED BY GENERAL TRADES CONTRACTOR

4 CANOPY ROOF DRAIN
N.T.S.

1. GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
2. STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
3. PIPE INSULATION.
4. PIPE.
5. 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
6. 18" LONG INSULATED PIPE SADDLES. BUCKAROOS TRU-BALANCE 3300E OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PNENOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
7. PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
8. THREADED ROD BEAM CLAMP.
9. WOOD DECK & BEAM.
10. RETAINING NUTE & WASHERS.
11. STEEL JOIST OR BEAM.
12. 90 DEGREE SIDE BEAM BRACKET WITH THREADED ROD INTO WOOD.
13. CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
14. CONCRETE SLAB OR PLANK.
15. METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.



STEEL JOIST CONSTRUCTION
PIPES 2.0" & SMALLER

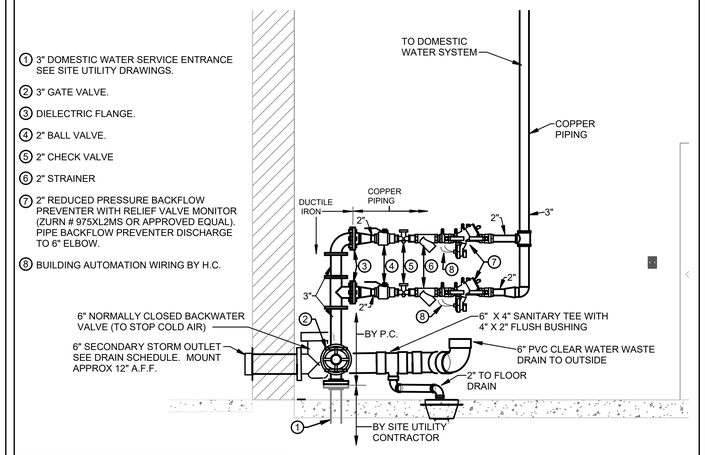
STEEL JOIST CONSTRUCTION
PIPES 2.5" & LARGER

STEEL BEAM CONSTRUCTION
ALL PIPE SIZES

PIPING 2.5" & LARGER

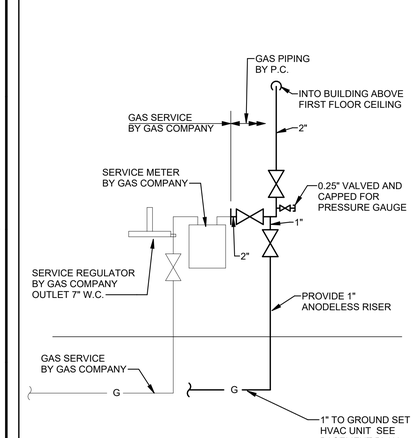
PIPING 2.0" & SMALLER

3 PIPE HANGERS
N.T.S.



1. 3" DOMESTIC WATER SERVICE ENTRANCE SEE SITE UTILITY DRAWINGS.
2. 3" GATE VALVE.
3. DIELECTRIC FLANGE.
4. 2" BALL VALVE.
5. 2" CHECK VALVE
6. 2" STRAINER
7. 2" REDUCED PRESSURE BACKFLOW PREVENTER WITH RELIEF VALVE MONITOR (ZURN # 975XL2MS OR APPROVED EQUAL). PIPE BACKFLOW PREVENTER DISCHARGE TO 6" ELBOW.
8. BUILDING AUTOMATION WIRING BY H.C.

4 BACKFLOW PREVENTER
N.T.S.

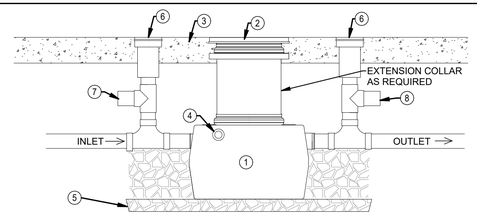


7 GAS SERVICE RISER
N.T.S.

GAS LOAD SCHEDULE

GENERAL NOTES
- PIPING SIZED USING THE LONGEST LENGTH METHOD.
- LOW PRESSURE (7" W.C.) GAS PIPING SIZED USING TABLE...

ITEM	LOAD	
GUH-1 GAS FIRED UNIT HEATER	125	CFH
GUH-2 GAS FIRE UNIT HEATER	100	CFH
EXISTING ROOF TOP UNIT	224	CFH
NEW GROUND SET HVAC UNIT	200	CFH
TOTAL	649	**CFH**



1. POLYETHYLENE OIL INTERCEPTOR RATED FLOW - 25 GPM TOTAL CACITY - 21 GALLONS OIL CAPACITY - 5.25 GALLONS SAND/SEDIMENT CAPACITY - 6 GALLON STREIM #OS 25 OR APPROVED EQUAL.
2. 16"∅ FRAME AND COVER SECURED IN CONCRETE.
3. BUILDING FLOOR SLAB.
4. 2"∅. BASIN VENT.
5. CRUSHED AGGREGATE OR SAND.
6. FLOOR CLEANOUT
7. INLET VENT (SERVING TRENCH DRAIN). SEE PLAN FOR CONTINUTATION.
8. OUTLET VENT. SEE PLAN FOR CONTINUTATION.

6 OIL INTERCEPTOR
N.T.S.

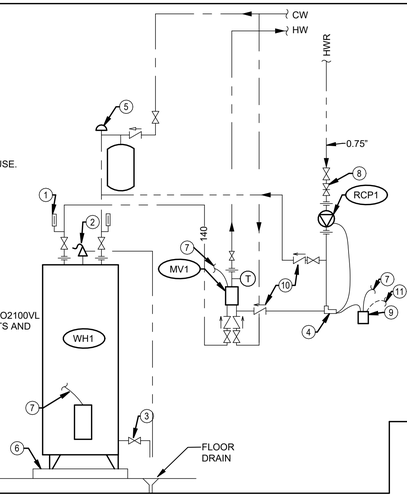
EQUIPMENT NOTES

WH1 WATER HEATER #1, ELECTRIC.
ELECTRIC TANK TYPE HEATER W/ ST.ST. TANK.
STORAGE - 115 GALLONS NOM.
RECOVERY - 82 GPH @ 90°F RISE
ELEMENTS - (3)-6 KW, WIRED FOR SIMULTANEOUS USE.
ELECTRICAL - 208V/ 3PH , 38 AMPS
BASIS OF DESIGN - HTP # EVC115B3W180
OR APPROVED EQUAL

RCP1 HOT WATER RECIRC. PUMP #1
CAPACITY - 3 GPM @ 15 FT. HD
ELECTRICAL - 120V/1PH
BASIS OF DESIGN - BELL AND GOSSETT # NBF25
OR APPROVED EQUAL.

MV1 120° HOT WATER DIGITAL MIXING VALVE
CAPACITY -50 GPM @ 5 PSI LOSS
MINIMUM FLOW - 3 GPM
BASIS OF DESIGN - POWERS INTELLISTATION 2 # ISO2100VL
SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS AND ADDITIONAL MANUFACTURERS.

ET1 EXPANSION TANK
BASIS OF DESIGN - AMTROL # 12C OR EQUAL



1. THERMOMETER (TYPICAL)
2. T&P SAFETY RELIEF VALVE. PIPE DISCHARGE TO FLOOR DRAIN W/ 2" MIN. AIR GAP.
3. DRAIN VALVE. PIPE DISCHARGE TO FLOOR DRAIN W/ 2" MIN. AIR GAP.
4. IMMERSION STAT TO CONTROL RECIRC. PUMP.
5. VACUUM RELIEF VALVE.
6. 4" CONCRETE PAD, BY G.C.
7. ELECTRICAL POWER CONNECTION BY E.C.
8. BALANCING VALVE. BALANCE AT 3 GPM.
9. MOTOR STARTER CONTROLLER BY E.C..
10. CHECK VALVE. (TYPICAL).
11. CONTROL WIRING BY H.C.
12. PIPE AS RECOMMENDED BY MIXING VALVE MANUFACTURER.

5 DOMESTIC WATER HEATER
N.T.S.

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT
1ST DISTRICT EAST PATROL RENOVATIONS
417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
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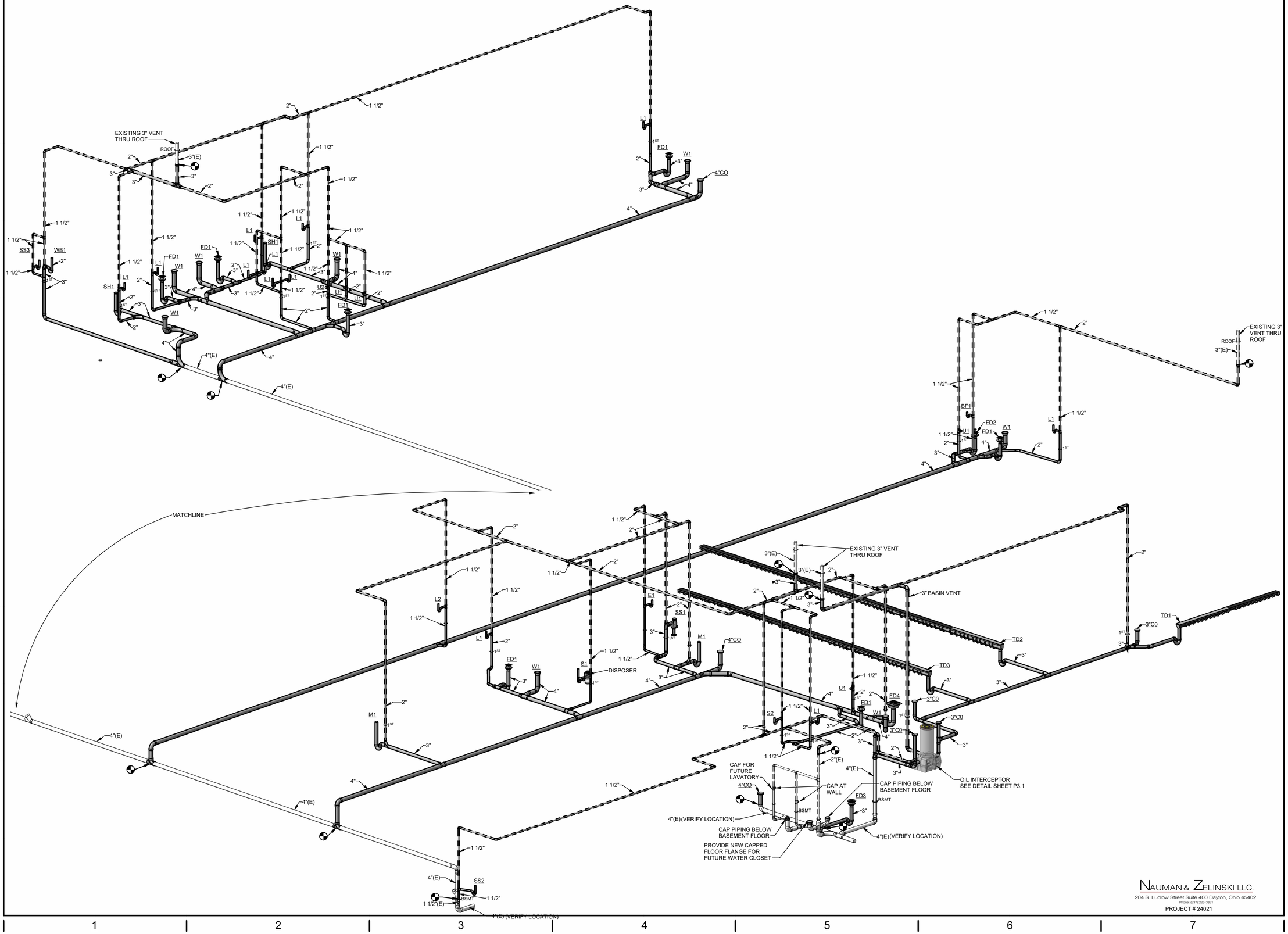

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GENERAL HVAC REMOVAL NOTES

A. GENERAL - THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THESE DRAWINGS SHALL NEITHER BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR A THOROUGH SITE INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL PIPE AND/OR DUCTWORK SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM(S) BEING REMOVED.

B. GENERAL REMOVALS - THE HVAC CONTRACTOR IS TO REMOVE ALL EXISTING, ACCESSIBLE UNUSED OR ABANDONED DEVICES, PIPING, WIRING, DUCTWORK AND SUPPORT HANGERS OR STRUCTURES TOTALLY BACK TO SOURCE. IN NO CASE SHALL ANY ABANDONED PIPING, WIRING, DUCTWORK, OR EQUIPMENT REMAIN WITHIN THE CONSTRUCTION AREA OR IN ADJACENT AREAS TO MECHANICAL ROOMS OR CLOSETS. ONLY ITEMS THAT ARE INACCESSIBLE SHALL BE ALLOWED TO BE ABANDONED IN PLACE WITH ALL ACCESSIBLE SERVICES APPROPRIATELY CAPPED.

C. SUPPORTS REMOVALS - ALL SUPPORTS SHALL BE REMOVED ENTIRELY FROM DEMOLISHED PIPING, DUCTWORK AND EQUIPMENT. REMAINING ACTIVE PIPING, DUCTWORK, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED, AS IN THE CASE OF DUCTWORK OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW UTILITIES. NEW SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.

D. WALL REMOVALS - RECESSED DEVICES TO BE ABANDONED IN EXISTING WALLS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVER PLATES AND PAINTED TO MATCH FINISH. WHERE REMOVALS ARE COMPLETELY REMOVED FROM FACE OF WALL, PATCH WALL CONSISTENT WITH ADJACENT FINISH. SURFACE MOUNTED REMOVED DEVICES SHALL HAVE SURFACE REPAIRED AND FINISHED TO MATCH ADJACENT EXISTING OR NEW ARCHITECTURAL FINISHES.

E. ROOF REMOVALS - DEVICES, SERVICES, SUPPORTS & EQUIPMENT REMOVED FROM ROOF SHALL BE REMOVED. THE HVAC CONTRACTOR SHALL ENGAGE A ROOFING CONTRACTOR TO PATCH THE ROOFING CONSISTENT WITH THE EXISTING ROOF WARRANTY.

F. ABANDONED SERVICES - ALL INACTIVE DUCT AND PIPE ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY AND CAPPED AT NEAREST ACTIVE MAINS.

G. EQUIPMENT REMOVAL/DISPOSAL COORDINATION - COORDINATE REMOVAL ITEMS CLOSELY WITH OWNER. ANY ITEMS REMOVED WITHIN THE CONSTRUCTION AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER. ALL OTHERS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REQUIRED TO BE DISPOSED OF ACCORDINGLY. DISPOSALS REGUALTED BY EPA SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST REQUIREMENTS AND DOCUMENTED.

H. PROTECTION - EXISTING MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES. PROVIDE ADEQUATE PROTECTION TO ALL EXPOSED SURFACES AND EQUIPMENT WITHIN THE REMOVAL AREA.

I. ACTIVE EQUIPMENT & SERVICES - ANY EXISTING EQUIPMENT OR DEVICES TO REMAIN IN ADJACENT SPACES MADE INACTIVE BY REMOVAL OF DEVICES OR WIRING WITHIN THE CONSTRUCTION AREA SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OR EQUIPMENT OPERATIONAL.

J. DAMAGED SERVICES & INSULATION - EXISTING PIPING & DUCTWORK TO REMAIN WITH DAMAGED INSULATION ENCOUNTERED IN AREAS OF WORK SHALL HAVE DAMAGED INSULATION REMOVED AND REPLACED WITH NEW. INSULATION THICKNESS SHALL MATCH EXISTING CONDITION. WORK TO BE PERFORMED ON A TIME AND MATERIAL BASIS AS ENCOUNTERED. SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

K. OPENINGS & PATCHING - WHERE DUCTWORK, PIPING, EQUIPMENT, OR AIR DEVICES ARE REMOVED THROUGH WALLS, FLOORS, CEILINGS AND ROOF, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND FINISH CONSISTENT WITH THE EXISTING OR NEW ARCHITECTURAL FINISHES FOR THAT AREA. OPENINGS OR HOLES EXPOSED TO EXTERIOR CONDITIONS SHALL BE MADE WEATHER-TIGHT AND WATERPROOF AND CONSISTENT WITH ADJACENT WALL FINISHES. PATCHING AND SEALING TO BE CONSISTENT WITH FIRE AND SMOKE STOPPING AND RATING.

CMU WALLS - GROUT SMALL PENETRATIONS CLOSED. TOOTH IN WITH NEW BLOCKING FOR LARGE HOLES.
BRICK WALLS - TOOTH IN WITH NEW BRICK
GYPSUM BOARD WALLS - REPLACE WITH NEW GYPSUM BOARD
STRUCTURAL METAL ROOF/FLOOR DECKING - REPLACE WITH NEW DECKING, SAME AS EXISTING SIZE
CONCRETE FLOORS/WALLS - GROUT PENETRATIONS CLOSED
WOOD FLOORS/WALLS - PATCH CONSISTENT WITH WOOD TYPE

L. ASBESTOS REMOVALS - ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO OWNER AND PROJECT MANAGER. ALL WORK IN THAT AREA SHALL CEASE UNTIL DEEMED SAFE.

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
6. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
7. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
10. PROJECT CONDITIONS REQUIRE COORDINATION TO MAKE SYSTEMS FIT IN THE AVAILABLE SPACE. HVAC CONTRACTOR SHALL PROVIDE AN INITIAL ¼" =1'0" SET OF DRAWINGS AND DISTRIBUTED TO OTHER TRADE CONTRACTORS FOR COORDINATION. ALL CONTRACTORS SHALL COOPERATE TO MODIFY THEIR RESPECTIVE MATERIAL AND EQUIPMENT INSTALLATION AND DEPICT ON A DETAILED, FINISHED COORDINATION SET OF DRAWINGS BEFORE INSTALLATION. ALLOW FOR EXPECTED MINOR OFFSETS OR RELOCATION SYSTEM OR EQUIPMENT WITHOUT REQUEST FOR COMPENSATION ADJUSTMENT.
11. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
12. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
13. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
14. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
15. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
16. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
17. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
18. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 16 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

PIPING LEGEND

- INDICATES DIRECTION OF FLOW
- CD / CD — CONDENSATE DRAIN
- CAP
- CONNECTION, BOTTOM
- CONNECTION, TOP
- CONNECTION, SIDE
- ELBOW, 90°, LONG RADIUS
- ELBOW, 45°, LONG RADIUS
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN
- REDUCER
- UNION, SCREWED
- PIPE HOSE THREAD CONNECTION

TEMPERATURE CONTROLS LEGEND

ABBREVIATIONS

A.I. -	ANALOG INPUT
A.O. -	ANALOG OUTPUT
AFMS -	AIR FLOW MEASURING STATION
BAS -	BUILDING AUTOMATION SYSTEM
DDC -	DIRECT DIGITAL CONTROLS
D.I. -	DIGITAL INPUT
D.O. -	DIGITAL OUTPUT
ECM -	ELECTRICALLY COMMUTATE MOTOR
E.W.T. -	ENTERING WATER TEMPERATURE
L.W.T. -	LEAVING WATER TEMPERATURE
M.C. -	MASTER CONTROLLER
N.O. -	NORMALLY OPEN
N.C. -	NORMALLY CLOSED
SCR -	SILICON CONTROLLED RECTIFIER
VFD -	VARIABLE FREQUENCY DRIVE

SENSORS & TRANSMITTERS

- (T) TEMPERATURE SENSOR
- (H) HUMIDITY SENSOR
- (TH) COMBINATION TEMPERATURE & HUMIDITY SENSOR
- (TC) COMBINATION TEMPERATURE & CARBON DIOXIDE SENSOR
- (P) PRESSURE SENSOR
- (N) NITROGEN DIOXIDE (NO_2) SENSOR
- (CO) CARBON DIOXIDE (CO_2) SENSOR
- (C) CARBON MONOXIDE (CO) SENSOR
- (CN) COMBINATION CARBON MONOXIDE & NITROGEN DIOXIDE SENSOR
- (DP) DIFFERENTIAL PRESSURE SENSOR
- (E) ENTHALPY SENSOR
- (T) PIPE WELL TYPE TEMPERATURE SENSOR
- (FS) PIPE WELL TYPE FLOW METER
- [T] THERMOSTAT - LINE OR LOW VOLTAGE
- [H] HUMIDISTAT
- [R] RELAY

VALVES

- MOTORIZED TWO-WAY CONTROL VALVE
- MOTORIZED THREE-WAY CONTROL VALVE

DAMPERS

- M MOTORIZED CONTROL DAMPER

OVER-RIDE TIMERS

- LV OVERRIDE TIMER - LINE VOLTAGE
- OVERRIDE PUSH BUTTON - DIGITAL SIGNAL

GAUGES

- (PDG) PRESSURE DIAL GAUGE - REFER TO SPECIFICATION FOR RANGES
  - AIRFLOW UNITS: IN. W.C.
  - WATER UNITS: PSI

SAFETY DEVICES

- WIRED DIRECTLY TO EQUIPMENT STARTER W/ MANUAL RESET

- [SD] DUCTWORK SMOKE DETECTOR - RELAY & LOW VOLTAGE WIRING TO FAN CONTROLLER BY T.C.
- [P] HIGH STATIC SAFETY SWITCH
- [FS] FLOW SWITCH
- [FZ] FREEZE STAT

DUCTWORK LEGEND

- 20/12 / 20/12 — RECTANGULAR DUCT, FIRST FIGURE IS SIDE SHOWN
- 10"ø / 10"ø — ROUND DUCT, DIAMETER INDICATED
- STAINLESS STEEL DUCT
- FLEXIBLE FABRIC STEEL DUCT
- INSULATED FLEXIBLE DUCT
- R — CHANGE OF ELEVATION, R = RISE, D = DROP
- ELBOW WITH TURNING VANES
- 20/12 — ROUND RUNOUT DUCT TAP TO RECTANGULAR DUCT WITH SPIN-IN FITTING, SEE DETAIL
- 10"ø — ROUND RUNOUT DUCT FITTING IN ROUND DUCT MAIN
- VOLUME DAMPER
- FD — FIRE DAMPER
- S — DUCT MOUNTED SMOKE DETECTOR
- SUPPLY DUCT SECTION - RISE, DROP
- RETURN DUCT SECTION - RISE, DROP
- VARIABLE AIR VOLUME UNIT WITH REHEAT COIL
- VARIABLE AIR VOLUME UNIT WITHOUT REHEAT COIL
- S1-8" / 300 — SUPPLY AIR DEVICE S1, SEE SCHEDULE AND DETAIL, 8" NECK SIZE, 300 = REQUIRED AIR FLOW (CFM)
- R1 — TRANSFER AIR DEVICE, R1 DEVICE TAG, SEE SCHEDULE AND DETAIL
- R1 / 300 — RETURN/EXHAUST, DEVICE TAG, R=RETURN, E=EXHAUST, 300 = REQUIRED AIR FLOW (CFM), DEVICE SIZE AS INDICATED IN AIR DEVICE SCHEDULE
- S2-24/12 / 300-8' 6" — SIDEWALL AIR DEVICE, SEE AIR DEVICE SCHEDULE, 24/12 = DEVICE SIZE, 300 = AIR FLOW (CFM), 8' 6" = MOUNTING HEIGHT (AFF)
- S3-6" / 150-2 — LINEAR SLOT PLENUM, S3 - DEVICE TAG, SEE AIR DEVICE SCHEDULE, 6" = ROUND DUCT CONNECTION SIZE, 150 = AIR FLOW (CFM), 2 = NO. OF SLOTS
- (E) / 120 — EXISTING AIR DEVICE, REBALANCE TO AIR FLOW INDICATED

HVAC CLIMATE DESIGN NOTES

1. THE HVAC SYSTEM IN THE BUILDING IS DESIGNED FOR A SUMMER INDOOR AIR TEMPERATURE OF 72°F AND A WINTER INDOOR AIR TEMPERATURE OF 68°F.
2. AIR TEMPERATURE DESIGN CONDITIONS:
   A. SUMMER CONDITIONS:
      a. OUTSIDE AIR: 90°F DRYBULB / 74°F WETBULB
      b. RETURN AIR: 76°F DRYBULB / 50% RELATIVE HUMIDITY
   B. WINTER CONDITIONS:
      a. OUTSIDE AIR: 0°F DRYBULB
      b. RETURN AIR: 66°F DRYBULB

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / H2	DETAIL SYMBOL, DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL, SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
A / H1	EXTERIOR ELEVATION SYMBOL, ELEVATION "A" DESIGNATION, SHOWN ON SHEET H1
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL, UP TO "FD1", SHOWN ON FLOOR ABOVE.
	1 HOUR FIRE PROTECTION, SEE SPECIFICATION FOR PENETRATION DETAILS
	2 HOUR FIRE PROTECTION, SEE SPECIFICATION FOR PENETRATION DETAILS
	3 HOUR FIRE PROTECTION, SEE SPECIFICATION FOR PENETRATION DETAILS
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
H0.1	LEGENDS & GENERAL NOTES
H0.2	MATERIAL SCHEDULES
H0.3	EQUIPMENT SCHEDULES
H1.1	DEMOLITION PLANS
H1.2	ROOF DEMOLITION PLAN
H2.1	NEW WORK PLAN
H2.2	ROOF PLAN
H2.3	SECTIONS
H3.1	DETAILS
H3.2	DETAILS
H3.3	DETAILS
H3.4	DETAILS
H4.1	CONTROLS
H4.2	CONTROLS
H5.1	VENTILATION

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LEGENDS & GENERAL NOTES

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PROJECT # 24021

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PIPING SYSTEMS - HVAC

PIPING SYSTEM		TYPE	
REFRIGERANT PIPING		C2	
COIL CONDENSATE DRAINAGE		C3	
TYPE	**DESCRIPTION**	**TYPE**	**DESCRIPTION**
C2	REFER TO SPECIFICATION 23 2300	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER

PIPE INSULATION SCHEDULE

SYSTEM & SIZE		INSULATION THICKNESS	TYPE	LOCATION
REFRIGERANT LIQUID		0.75"	E1 / E2	INTERIOR/EXTERIOR
REFRIGERANT HOT GAS		0.75"	E1 / E2	INTERIOR/EXTERIOR
REFRIGERANT SUCTION		0.75"	E1 / E2	INTERIOR/EXTERIOR
COOLING COIL CONDENSATE		0.5"	F1	INTERIOR
TYPE	**BASIS OF DESIGN**	**APPROVED EQUALS**	**DESCRIPTION**	
F1	OWENS CORNING #ALL SERVICE JACKET	- KNAUF #1000" PIPE, - JOHNS MANVILLE #MICRO-LOK HP - MANSON -CERTAINTEED	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F, 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.	
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.	
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.	

DUCT INSULATION SCHEDULE

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	-	-	EXPOSED - CONDITIONED SPACE	1
SUPPLY AIR DUCT	2"	2	EXPOSED - UNCONDITIONED SPACE	1
SUPPLY AIR DUCT	INT.	3	EXTERIOR	1
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	1
RETURN AIR DUCT	INT.	3	EXTERIOR	1
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	EXPOSED	1

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED
3	THERMADUCT	PRO-R DUCT TUFF DUCT	HIGH-EFFICIENCY PRE-INSULATED OUTDOOR AIR DUCT R = 8.1 WEATHERPROOF OUTDOOR CLADDING VAPOR BARRIER: BONDED ALUMNIUM FOIL WITH ZERO PERMIABILITY

NOTES:

1. PAINT DUCT TO MATCH BASE MATERIAL COLORS.

DUCTWORK SYSTEM SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
RETURN AIR	EXTERIOR	F1	-2"	C	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - VAV UPSTREAM	CONCEALED	G1	+4"	A	
SUPPLY AIR - VAV UPSTREAM	EXPOSED	G2	+4"	A	1
SUPPLY AIR - VAV UPSTREAM	EXTERIOR	F1	+4"	A	
SUPPLY AIR - VAV DOWNSTREAM	CONCEALED	G1	+1"	C	
SUPPLY AIR - VAV DOWNSTREAM	EXPOSED	G2	+1"	C	1
ERV SUPPLY AIR	CONCEALED	G1	+3"	B	
ERV SUPPLY AIR	EXPOSED	G1	+3"	B	
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
COMBUSTION AIR	ALL	G1	-2"	A	
EXHAUST FLUE	ALL	D1	+4"	A	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORICING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
D1	STAINLESS STEEL	DOUBLE WALL TYPE B VENT. REFER TO SPECIFICATION FOR ADDITIONAL INFROMATION.
F1	NON-FIBROUS CLOSED CELL	EQUAL TO THERMADUCT - REFER TO INSULATION SCHEDULE FOR ADDITIONAL INFORMATION.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.

NOTES:

1. PAINT DUCT TO MATCH BASE MATERIAL COLORS.

RATED ASSEMBLY PENETRATIONS

GENERAL NOTES:

1. REFER TO THE ARCHITECTS LIFE SAFETY DRAWING FOR INFOMRATION ON RATED ASSEMBLIES ON THIS PROJECT.
2. REFER TO SPECIFCATION 23 0004, 23 0529, 23 3300 FOR INFORMATION ON SYSTEMS SPECIFIED PER THIS SCHEDULE.
3. FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPER ACCESS DOORS SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION. FOR HORIZONTAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED ON THE BOTTOM OF DUCTWORK. FOR VERTICAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED AT THE FLOOR LEVEL ON THE HIGHER FLOOR (I.E., A PENETRATION THROUGH THE 1ST AND 2ND FLOOR SHALL HAVE THE ACCESS DOOR LOCATED ON THE 2ND FLOOR LEVEL).

	DUCTWORK				PIPING			
ASSEMBLY TYPE	FIRE DAMPER	FIRE STOPPING	PLIABLE CAULK	SMOKE DAMPER	COMBINATION FIRE / SMOKE	FIRE STOPPING	PLIABLE CAULK	CAST-IN PLACE FIRESTOP SYS.	NOTES
FIRE BARRIER	●	●				●			1
FIRE WALLS	●					●			
FIRE WALL HORIZONTAL EXIT					●	●			
FIRE BARRIER HORIZONTAL EXIT					●	●			
SHAFT ENCLOSURE	●	●		●	●	●			2
FIRE PARTITIONS	●					●			1
SMOKE PARTITIONS			●	●			●		
SMOKE BARRIER		●		●		●			3
RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●		●	4
NON-RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●			5

NOTES:

1. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING.
2. PROVIDE FIRE DAMPER, SMOKE DAMPER, OR COMBINATION FIRE/SMOKE ONLY WHERE INDICATED ON DRAWINGS. OBC 717.5.3 EXCEPTIONS ALLOW THE ELIMINATION OF SOME DAMPERS. WHERE FIRE DAMPERS ARE NOT INDICATED, PROVIDE FIRE STOPPING.
3. PROVIDE SMOKE DAMPERS ONLY WHERE INDICATED ON DRAWING. FOR DUCTS WITHOUT SMOKE DAMPERS, PROVIDE FIRE STOPPING.
4. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING. NOTE: DUCTS PENETRATING RATED FLOORS MAY BE WITHIN A SHAFT ENCLOSURE, REFER TO SHAFT REQUIREMENTS.
5. DUCTS PENETRATING NON-RATED, NON-COMBUSTIBLE FLOORS AND NOT ENCLOSED IN A SHAFT REQUIRE A FIRE DAMPER. DUCTS PENETRATING NON-RATED, COMBUSTIBLE FLOORS AND NOT WITHIN A SHAFT REQUIRE FIRE STOPPING.

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TITLE
MATERIAL SCHEDULES

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EQUIPMENT NOTES

HOOD

LABCONCO HOOD ENCLOSURE

WORK STATION COMPONENTS:
- 4' PROTECTOR XVS VENTILATION STATION - #4864030
  a. 120V / 1PH / 10A
- 4' PROTECTOR STANDARD STORAGE CABINET - #9900000
- 4' DISHED EXPOY WORK SURFACE - #3908402

EXHAUST COMPONENTS:
- UPPER EXHAUST TRANSITION ADAPTER, 6"ø - #3912401
- MANUAL EXHAUST DAMPER, POWDER-COATED STEEL, 6"ø - #3924000
- BLOWER TRANSITION ADAPTER - #4861700
- EXHAUST FAN #4863500
  a. 200CFM @ 80 FPM ENCLOSURE FACE VELOCITY
  b. 1/4 H.P., 120V/1PH

NOTE: THE H.C. SHALL PROVIDE ALL REQUIRED CONTROL WIRING TO INSTALL THE EXHAUST FAN AND INTEGRATE CONTROL WITH THE HOOD.

DS-1

DUCT SILENCER
ELBOW MEDIUM VELOCITY SILENCER
EQUAL TO PRICE #ERM60/4B
40"W / 20"H 90° ELBOW.
CASING: 18 GA GALVANIZED.
PERFORATED INTERIOR LINER: 22 GA GALVANIZED.
PRESSURE DROP 0.11" W.C.

FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.

REFER TO INSTALLATION DETAILS.

TAG	SERVICE	AREA	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL	
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR HP	V/PH
EF-1	BOMB SQUAD	ROOF	UPBLAST CENTRIFUGAL	CUE-080-VG	12.5" / 12.5"	150	0.5"	1/10	120 / 1
EF-2	FITNESS RR	CEILING	BATHROOM EXHAUST FAN	SP-LP0511-1	-	75	0.5"	0.4 MCA / 15 MOCP	120 / 1
EF-3	GENERAL	ROOF	DOWNBLAST CENTRIFUGAL	G-090-VG	12.5" / 12.5"	275	0.75"	1/10	120 / 1
EF-4	GENERAL	ROOF	DOWNBLAST CENTRIFUGAL	G-095-VG	12.5" / 12.5"	700	0.75"	1/6	120 / 1
EF-5	GENERAL	ROOF	DOWNBLAST CENTRIFUGAL	G-080-VG	12.5" / 12.5"	125	0.5"	1/10	120 / 1

TAG	ELECTRIC: DISCONNECT WITH FAN	ELECTRIC: DISCONNECT BY E.C.	ELECTRIC: VFD	ELECTRIC: ECM	DRIVE TYPE: DIRECT	DRIVE TYPE: BELT	MOUNTING: ROOF CURB	MOUNTING: BASE/FLOOR	MOUNTING: SUSPENDED, INLINE	MOUNTING: WALL	MOUNTING: CEILING	APPLICATION: UL 705 GREASE RATED	APPLICATION: UL 864 SMOKE CONTROL	APPLICATION: HIGH TEMP (ABOVE 200 °F)	APPLICATION: EXPLOSION PROOF	ACCESSORIES & OPTIONS: VIBRATION ISOLATION	ACCESSORIES & OPTIONS: INSULATION HOUSING	ACCESSORIES & OPTIONS: THERMAL CONTROL	ACCESSORIES & OPTIONS: SLOPING ROOF CURB	ACCESSORIES & OPTIONS: HINGED ROOF CURB	ACCESSORIES & OPTIONS: CURB EXTENSION	ACCESSORIES & OPTIONS: POWDER COAT FINISH	ACCESSORIES & OPTIONS: EPOXY INTERIOR FINISH	CONTROLS: DDC CONNECTION	CONTROLS: MANUAL/ON/OFF SWITCH	CONTROLS: DIAL SPEED CONTROLLER	CONTROLS: HOA CONTROLLER	CONTROLS: MOTORIZED DAMPER	CONTROLS: GRAVITY DAMPER	NOTES
EF-1	●			●	●		●																				●	●		
EF-2	●				●						●																		●	
EF-3	●			●	●		●																				●	●		
EF-4	●			●	●		●																				●	●		
EF-5	●			●	●		●																				●	●		

NOTES:

ENERGY RECOVERY VENTILATOR SCHEDULE

BASIS OF DESIGN: GREENHECK
- ROOM AIR HEATING: 68°F / 20% RH
- ROOM AIR COOLING: 80°F/66.5°F (DB/WB)

UNIT	ROOM SERVED	AIRFLOW (CFM)	EXHAUST E.S.P.	SUPPLY E.S.P.	COOLING			HEATING			ELECTRICAL			CABINET DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
					ENTHALPY RECOVERY RATIO	EAT (DB/WB)	LAT (DB/WB)	ENTHALPY RECOVERY RATIO	EAT	LAT	V/PH	MCA	MOCP	LENGTH	WIDTH	HEIGHT			
ERV-1	BOMB SQUAD	1,250	0.75	0.75	78%	90 / 74	81.9 / 68.3	78%	0	53.8	208 / 3	8.4	15	66.6	45.1	65.9	722	ECVe-20-15L	1, 2, 3

NOTES:
1. DISCONNECT WITH UNIT.
2. MODULATING WHEEL TYPE FROST CONTROL.
3. MERV 8 FILTERS ON OUTSIDE AIR AND EXHAUST AIR STREAMS ENTERING HEAT EXCHANGER.

GAS FIRED UNIT HEATER SCHEDULE

GENERAL NOTES
BASIS OF DESIGN: MODINE

UNIT NO.	SERVICE	MOUNTING	MODEL #	(MBH) INPUT/OUTPUT	EFFICIENCY	CFM	AMPS	VOLT/PH	DIMENSIONS			WEIGHT	NOTES
									L (IN.)	D (IN.)	H (IN.)		
GUH-1	BOMB SQUAD	CEILING SUSPENDED	HDS-110	125 / 102	82%	1,980	4.75	120 / 1	35.5"	31"	21.5"	128	1, 2
GUH-2	FORENSICS / VEHICLE BAY	CEILING SUSPENDED	HDS-55	100 / 82	82%	1,490	5.5	120 / 1	35.5	31"	21.5"	125	1, 2

NOTES:
1. REMOTE WALL MOUNTED THERMOSTAT. TEMPERATURE AND FAN ON/OFF SWITCHES.
2. CONDENSATE NEUTRALIZING KIT.

AIR TERMINAL UNIT SCHEDULE - ELECTRIC

GENERAL NOTES
UNITS ARE VARIABLE AIR VOLUME, ELECTRIC REHEAT.

CV - CONSTANT VOLUME
VV- VARIABLE VOLUME

DESIGN BASIS- PRICE MODLE SDV

UNITS TO HAVE SCR CONTROL

ENTERING AIR TEMP. (DEG. F) 55
MAX AIR PRES. DROP INCL. HW COIL. 0.6"

MAX. NC 25, WITH 10db ROOM ABSORBTION AT 1.5" SP AND MAX AIR FLOW.

UNIT. NO.	INLET SIZE	TYPE	COOLING MAX. (CFM)	COOLING MIN.(CFM)	HEATING CFM	MBH	KW	LAT	V/PH	SEE NOTES
24-1	6	VV	400	80	270	12.9	3.8	100	208 / 3	1, 2
24-2	8	VV	600	120	350	17.0	5.0	100	208 / 3	1
24-3	10	VV	750	150	525	25.5	7.5	100	208 / 3	1, 2
24-4	6	VV	300	60	210	10.2	3.0	100	208 / 3	1, 2
24-5	7	VV	500	100	350	17.0	5.0	100	208 / 3	1, 2
24-6	5	VV	250	50	175	8.5	2.5	100	208 / 3	1
24-7	10	VV	900	180	600	29.2	8.5	100	208 / 3	1, 2
24-8	6	VV	300	60	210	10.2	3.0	100	208 / 3	1
24-9	10	VV	800	160	550	26.7	7.8	100	208 / 3	1, 2
24-10	14	VV	1400	280	700	34.0	10.0	100	208 / 3	1, 2
24-11	7	VV	500	60	210	10.2	3.0	100	208 / 3	1
24-12	7	VV	500	100	350	17.0	5.0	100	208 / 3	1, 2
24-13	5	VV	150	30	105	5.1	1.5	100	208 / 3	1
24-14	6	VV	350	70	245	11.9	3.5	100	208 / 3	1, 2
24-15	9	VV	700	140	490	23.8	7.0	100	208 / 3	1, 2
24-16	5	VV	250	50	200	9.7	2.8	100	208 / 3	1, 2
24-17	5	VV	100	20	100	4.9	1.4	100	208 / 3	1
24-18	10	VV	850	170	595	28.9	8.5	100	208 / 3	1, 2

NOTES:
1. DISCONNECT SWITCH INTEGRAL WITH UNIT.
2. UNIT SHALL HAVE "OCCUPIED SET-BACK" MODE OF OPERATION.

ELECTRIC UNIT HEATER SCHEDULE

GENERAL NOTES
BASIS OF DESIGN: RAYWALL

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	MOUNTING	KW	MBH	AIR FLOW (CFM)	DIMENSIONS			VOLTAGE / PHASE	NOTES
							L (IN.)	D (IN.)	H (IN.)		
EUH-1	WALL MOUNTED UNIT HEATER	RAYWALL #E3055T2DWB	WALL RECESSED	0.75	2.6	100	9-1/4"	3-5/8"	12-1/8"	120 / 1	1

NOTES:
1. DISCONNECT SWITCH WITH UNIT.

AIR DEVICE SCHEDULE

GENERAL NOTES
AIR DEVICES BASED ON PRICE.
EQUAL BY TITUS, TUTTLE & BAILEY

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1 & S1A	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	
S2 & S2A	12"X12"SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	1
S3	LOUVERED SUPPLY GRILLE DOUBLE DEFLECTION, 3/4" BLADE SPACING BLADES PARALLEL TO LONG DIMENSION SIZES INDICATED ON DRAWINGS	720	STEEL	BALANCING DAMPER SURFACE MOUNT FRAME	
S4	LINEAR SLOT TYPE WITH PLENUM (2) 1" SLOT 48" LENGTH ROUND DUCT CONNECTION	TBD2	STEEL	EXTERNAL INSULATED PLENUM	
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
R3	LOUVERED FACE SIDE WALL RETURN GRILLE DEVICE SIZE - INDICATED ON PLAN MOUNTING HEIGHT - INDICATED ON PLAN 45° HORIZONTAL BLADES 1/2" SPACING HORIZONTAL BLADES	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		1
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E4	EXHAUST GRILLE DEVICE SIZE - 24" x 10" 45° HORIZONTAL BLADES 3/4" SPACING	96	STEEL		

NOTES:
1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.

LOUVER SCHEDULE

GENERAL NOTES
BASIS OF DESIGN: GREENHECK
EQUAL BY: POTTORFF, RUSKIN, AIROLITE

MAXIMUM 500 FPM ON INTAKE LOUVERS
MINIMUM 50% FREE AREA

PRIME COAT PAINT COLOR. FINAL COLOR SELECTION BY ARCHITECT, PAINTED BY G.C.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
L1	FIXED BLADE LOUVER DEVICE SIZE - 12"x12" LOUVER FRAME SIZE - 4" FRAME MIN. 50% FREE AREA	ESD-435	ALUMINUM	BLACK BIRDSCREEN	

NOTES:

HVLS FAN SCHEDULE

GENERAL NOTES
BASIS OF DESIGN: GREENHECK
REFER TO SPECIFICATION FOR EQUAL.

TAG	DESCRIPTION / MODEL #	BLADE DIA.	MOTOR HP	ELECTRIC	NOTES
CF-1	8' DIAMETER FAN / DC-5-8	96"	1/4	120V / 1PH	1, 2, 3, 4

NOTES:
1. 12" MOUNTING POLE.
2. 0-10V CONTROL SIGNAL.
3. FIXED, WALL MOUNTED CONTROL.
4. FINISH COLOR SELECTION BY ARCHITECT.

PACKAGED ROOFTOP UNITS

UNIT TAG	RTU-24-1
BASIS OF DESIGN	DAIKIN #DPSA025
SERVICE	POLICE STATION
DESCRIPTION	PACKAGED RTU
MOUNTING	ROOF CURB
EVAPORATOR FAN	
AIRFLOW (CFM)	8,000
ESP. (" W.G.)	2.25
FAN TYPE	ECM
FAN QUANTITY	2
VARIABLE FREQUENCY DRIVE	NOT REQ.
RELIEF FAN	
AIRFLOW (CFM)	6,500
ESP. (" W.G.)	0.5
FAN TYPE	ECM
VARIABLE FREQUENCY DRIVE	NOT REQ.
FILTER	
PRE-FILTER	2" MERV 9
FINAL FILTER	4" MERV 13
COOLING	
TOTAL (MBH)	296
SENSIBLE (MBH)	213
ENTER. AIR (DB/WB)	78.1 / 65.4
SUPPLY AIR (DB/WB)	52.9 / 52.9
IEER	16.6
REFRIGERANT	R-32
HEATING - REQ. NATURAL GAS INPUT PRESSURE: 7" W.C. MIN./14" W.C. MAX.	
GAS INPUT (MBH)	200
OUTPUT (MBH)	162
ENTER. AIR (DB)	50
SUPPLY AIR (DB)	74
HOT GAS REHEAT COIL	
CAPACITY (MBH)	145
ENTER. AIR (DB)	52.9
SUPPLY AIR (DB)	70
ELECTRIC CIRCUIT (TWO TOTAL)	
MCA	170
MOCP	225
VOLTAGE/HZ/PHASE	208 / 60 / 3
SCCR	65 kAIC
MCA	43
MOCP	45
VOLTAGE/HZ/PHASE	208 / 60 / 3
SCCR	65 kAIC
PHYSICAL UNIT DATA	
LENGTH	249"
WIDTH	96.5"
HEIGHT - NOT INCLUDING CURB	78"
MAX UNIT OP. WEIGHT (LBS)	6,941
UNIT OPTIONS	
ECONOMIZER HOOD	•
MIN. O.A. HOOD	•
CONSTANT AIR VOLUME	
VARIABLE AIR VOLUME	•
SINGLE SPEED / STAGED COMPRESSORS	
DIGITAL SCROLL COMPRESSORS	
INVERTER DUTY COMPRESSOR	•
STAINLESS STEEL HEAT EXCHANGER	•
RETURN AIR SMOKE DETECTOR	
CO2 SENSOR D.V.C.	
POWERED RELIEF FAN	•
BAROMETRIC GRAVITY RELIEF DAMPER	
WALL MOUNTED THERMOSTAT/HUMIDISTAT	

NOTES:
1) REFER TO DETAIL 7, H3.3 FOR CONDENSATE DRAIN DETAIL.

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DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

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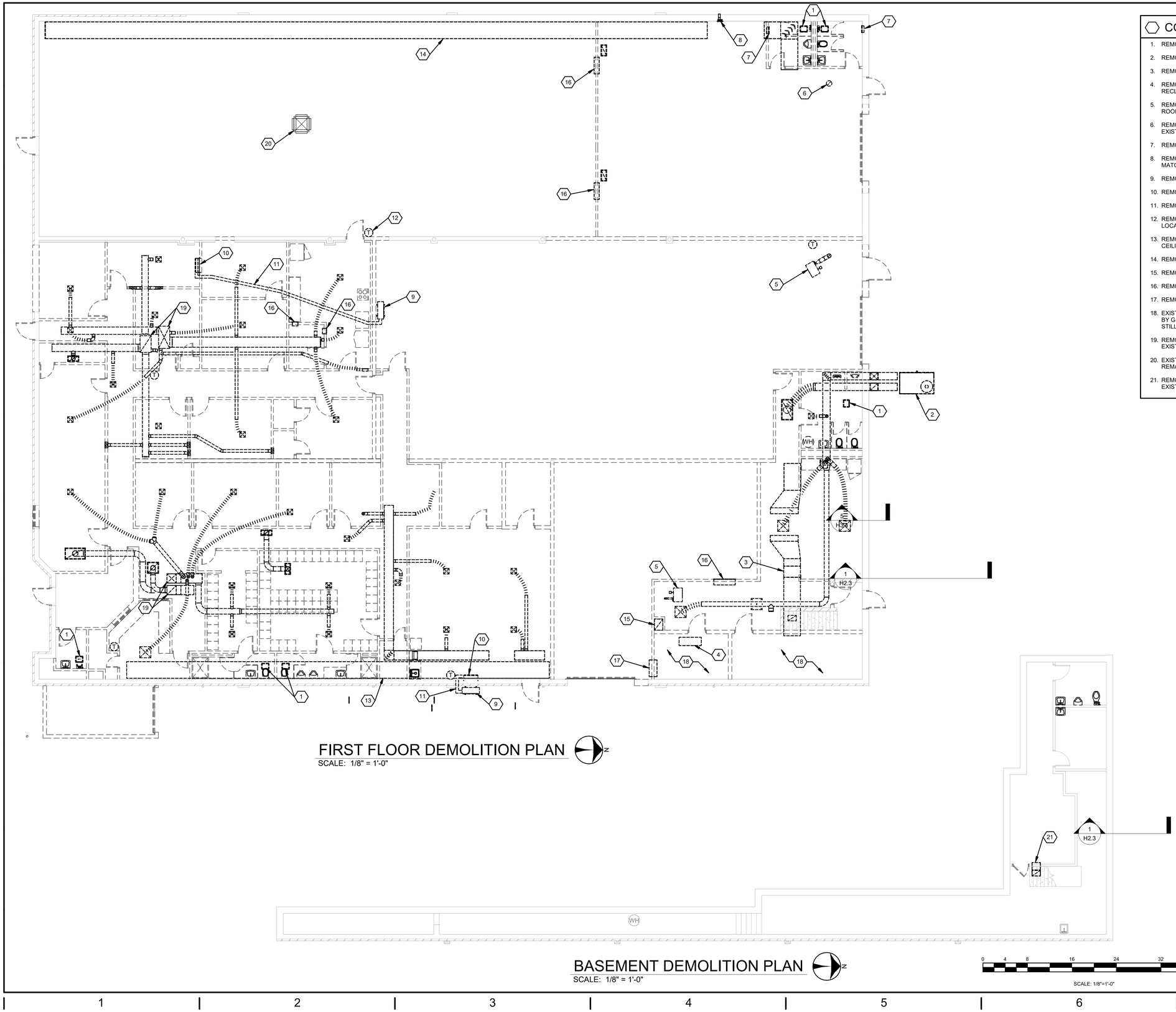

FIRST FLOOR DEMOLITION PLAN

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

BASEMENT DEMOLITION PLAN

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

CONSTRUCTION NOTES

1. REMOVE CEILING MOUNTED EXHAUST FAN.
2. REMOVE PACKAGED HVAC EQUIPMENT ON GRADE.
3. REMOVE GAS FURNACE ABOVE LAY-IN CEILING.
4. REMOVE WALK-IN FRIDGE/FREEZER CONDENSING UNIT. RECLAIM SYSTEM REFRIGERANT.
5. REMOVE UNIT HEATER. REMOVE FLUE THROUGH ROOF. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
6. REMOVE FLUE THROUGH ROOF. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
7. REMOVE UNIT HEATER.
8. REMOVE DRYER VENT THROUGH WALL. PATCH WALL TO MATCH EXISTING CONSTRUCTION.
9. REMOVE WALL MOUNTED CONDENSING UNIT.
10. REMOVE WALL MOUNTED EVAPORATOR UNIT.
11. REMOVE REFRIGERANT PIPING.
12. REMOVE & RETAIN THERMOSTAT. REFER TO H2.1 FOR NEW LOCATION.
13. REMOVE ABANDONED PERIMETER DUCTWORK ABOVE LAY-IN CEILING. TRACE OUT DUCT EXTENTS AND REMOVE.
14. REMOVE PERIMETER DUCTWORK.
15. REMOVE VERTICAL DUCTWORK.
16. REMOVE GRILLE IN WALL.
17. REMOVE TRANSFER DUCT.
18. EXISTING WALK-IN REFRIGERATOR/FREEZER. WALLS REMOVED BY G.C., H.C. SHALL REMOVE ALL MECHANICAL COMPONENTS STILL EXISTING.
19. REMOVE DUCT UP THROUGH ROOF. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
20. EXISTING RTU AND AIR DEVICE SERVING FITNESS ROOM TO REMAIN.
21. REMOVE DUCT THROUGH WALL. PATCH WALL TO MATCH EXISTING CONSTRUCTION.

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

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DEMOLITION PLANS

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PROJECT # 24021

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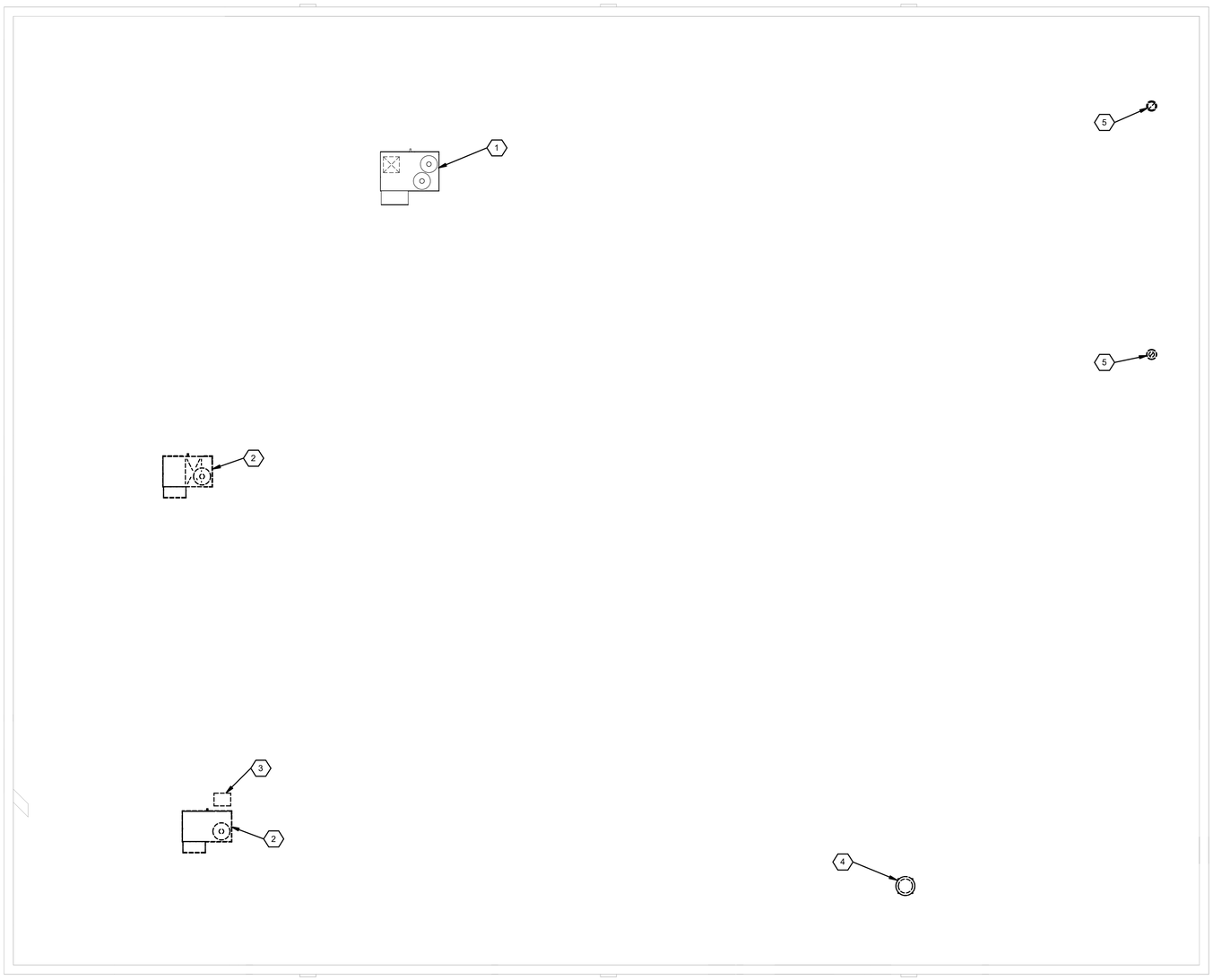

CONSTRUCTION NOTES

1. EXISTING RTU TO REMAIN.
2. REMOVE RTU AND ROOF CURB. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
3. REMOVE PIPING DOG HOUSE. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
4. REMOVE FAN. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
5. REMOVE FLUE. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.

ROOF DEMOLITION PLAN

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

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

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DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/2025	FOR CONSTRUCTION

DATE	11/17/2025
JOB NO.	4209.00
DRAWN	DJZ
CHECKED	JDZ

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PROJECT # 24021

TITLE
ROOF DEMOLITION PLAN

SHEET NO.
H1.2

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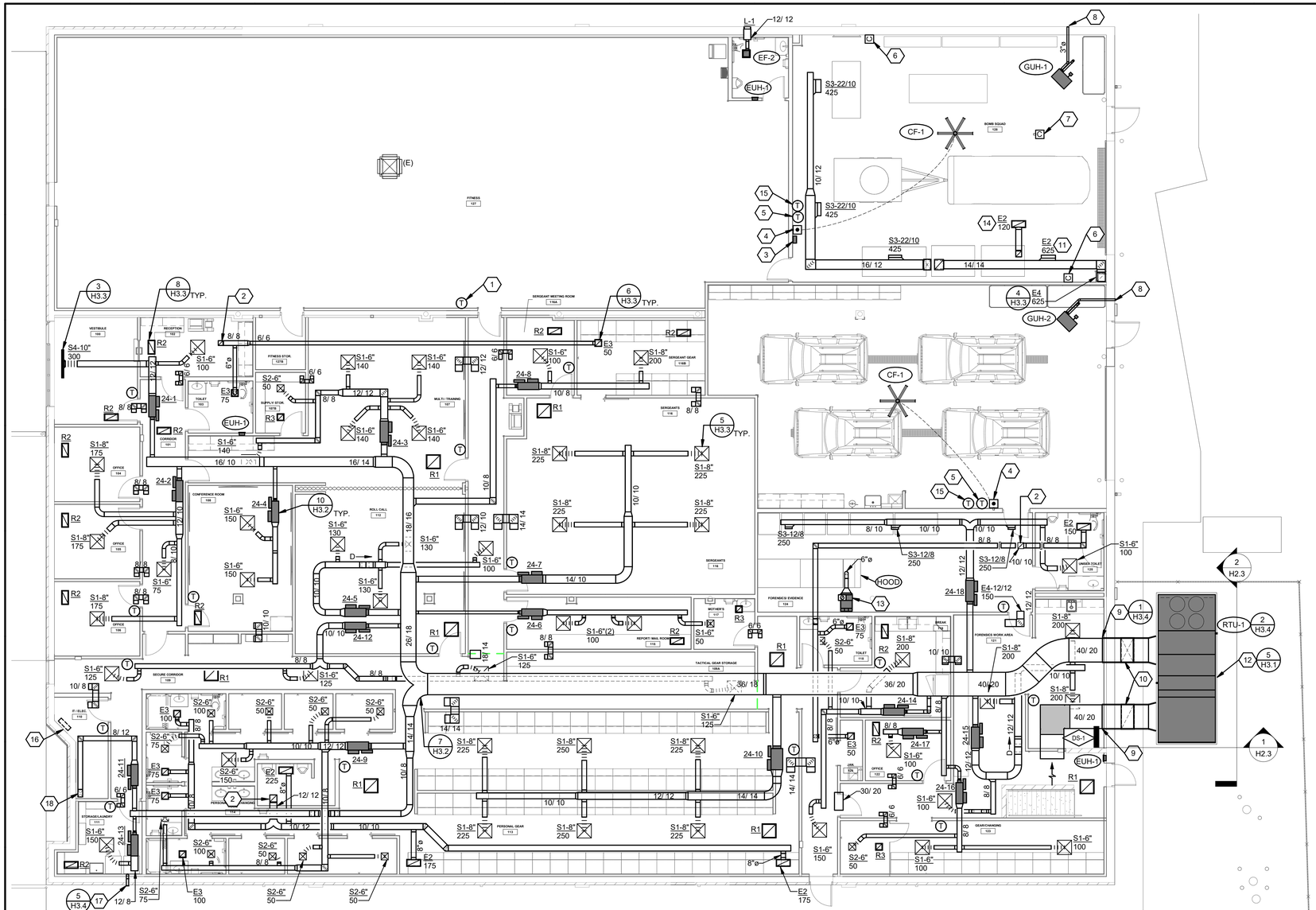

CONSTRUCTION NOTES

1. RELOCATED THERMOSTAT.
2. DUCT UP TO ROOF.
3. CO/NO$_2$ GAS DETECTION SYSTEM. MOUNT 5' A.F.F.
4. CEILING FAN CONTROL PANEL. MOUNT 4' A.F.F. LINE VOLTAGE BY E.C., CONTROL WIRING BY T.C.
5. UNIT HEATER REMOTE THERMOSTAT.
6. CO/NO$_2$ GAS SENSOR. MOUNT 4' A.F.F.
7. CO/NO$_2$ GAS SENSOR. MOUNT TO CEILING.
8. 4" DIAMETER SIDE WALL INTAKE HOOD. PAINT TO MATCH EXTERIOR WALL COLOR.
9. DUCT TRANSITION POINT FROM EXTERIOR THERMADUCT TO INTERIOR GALVANIZED DUCTWORK.
10. DUCT RUNS UP SIDE OF BUILDING. PAINT DUCT TO MATCH EXTERIOR WALL COLOR.
11. PROVIDE BALANCING DAMPER WITH AIR DEVICE.
12. EXTERIOR EQUIPMENT PAD BY H.C.
13. FAN PROVIDED WITH HOOD. SUSPEND FAN FROM STRUCTURE TIGHT TO ROOM CEILING. PROVIDE VIBRATION ISOLATION HANGERS.
14. MOUNT GRILLE TO DRYWALL CEILING.
15. DDC TEMPERATURE SENSOR. MOUNT 4' A.F.F.
16. INSTALL DDC MAIN CONTROL CABINET IN IT ROOM. COORDINATE FINAL INSTALLATION LOCATION WITH IT EQUIPMENT.
17. DRYER VENT. REFER TO DETAIL.
18. TERMINATE DUCT OPEN TO ROOM 1'-0" A.F.F.

FIRST FLOOR NEW WORK PLAN

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

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

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DAYTON POLICE DEPARTMENT

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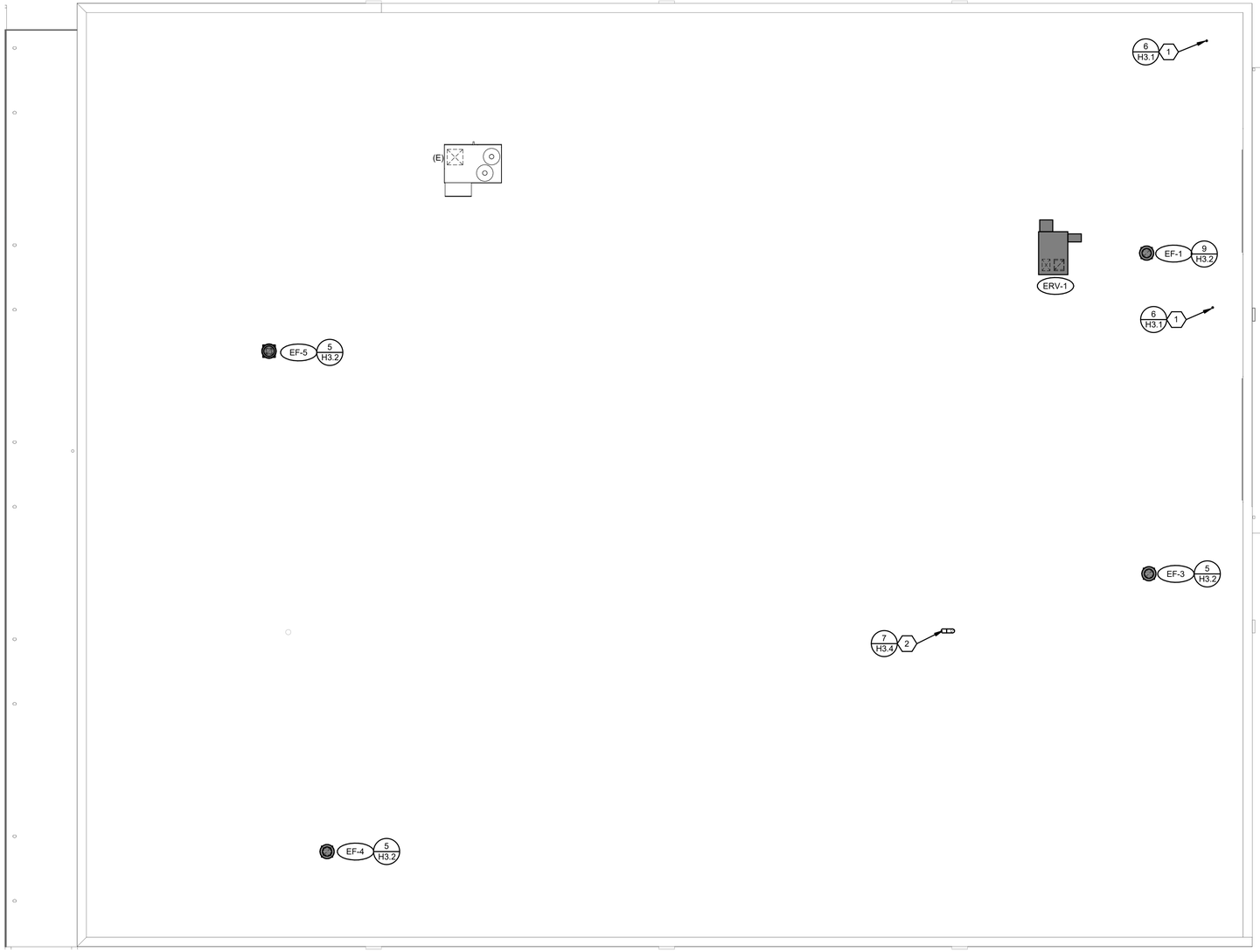
TITLE
NEW WORK PLAN

SHEET NO.
H2.1

11/14/2025 9:15:24 AM

CONSTRUCTION NOTES

1. GAS FIRED UNIT HEATER FLUE.
2. FORENSICS HOOD EXHAUST EXHAUST DISCHARGE. GOOSENECK DUCT DOWN AT A 45° ANGLE AND TERMINATE OPEN. PROVIDE BIRD SCREEN ON OPEN END.



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

0 4 8 16 24 32 40
SCALE: 1/8"=1'-0"

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TITLE
ROOF PLAN

SHEET NO.
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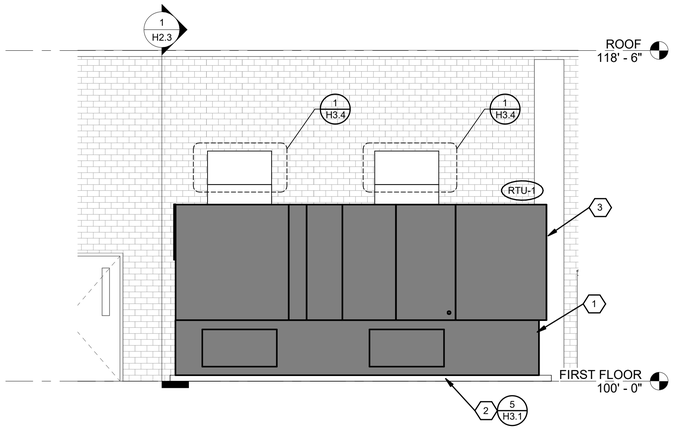
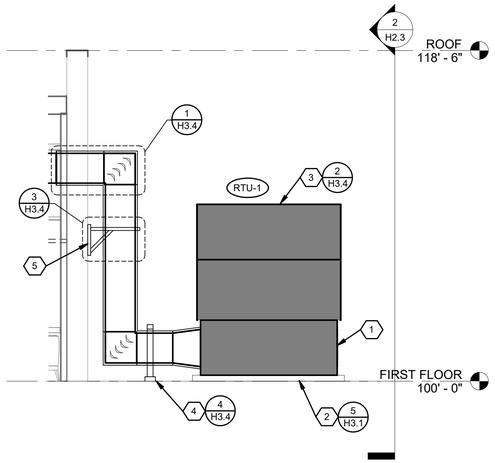


RTU ELEVATION NORTH

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



RTU ELEVATION EAST

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

CONSTRUCTION NOTES

1. 36" ROOF CURB.
2. EXTERIOR CONCRETE EQUIPMENT PAD BY H.C.
3. PACKAGED HVAC UNIT RTU-1.
4. THERMADUCT GROUND SUPPORT. REFER TO DETAIL.
5. THERMADUCT WALL SUPPORT. REFER TO DETAIL.

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SECTIONS

SHEET NO.

H2.3

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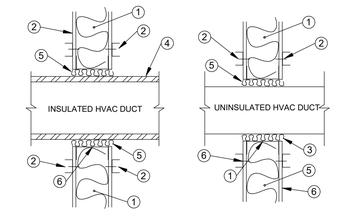
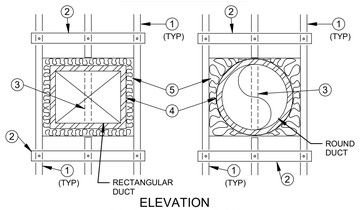
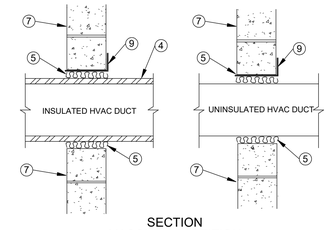


SECTION
DRYWALL PARTITION

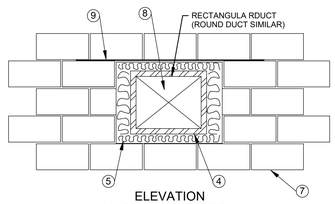


ELEVATION
DRYWALL PARTITION

1. EXISTING FRAMING/WALL.
2. NEW METAL STUD FRAMING MEMBER ON EXTERIOR SURFACE OF WALL. ATTACH TO THREE EXISTING WALL STUDS MIN. (BY H.C.)
3. CUT AND REMOVE EXISTING METAL/WOOD STUD AS REQUIRED, AFTER INSTALLATION OF NEW MEMBER (BY H.C.).
4. DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
5. FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS INSULATION, ALL FOUR SIDES.
6. WIRE SCREEN ACROSS WALL CAVITY, BOTTOM OF DUCT ONLY.
7. EXISTING MASONRY WALL.
8. WALL OPENING BY H.C.
9. STEEL LINTEL BY G.C.



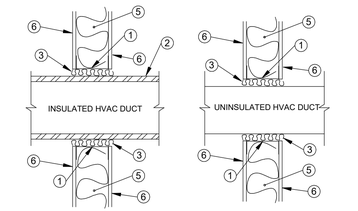
SECTION
MASONRY PARTITION



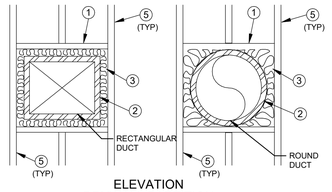
ELEVATION
MASONRY PARTITION

1 DUCT SEALING THRU NON-FIRE RATED WALL N.T.S.

* EXISTING CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"

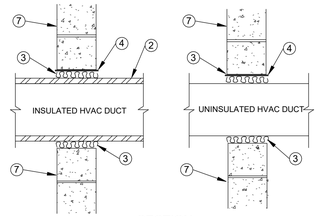


SECTION
DRYWALL PARTITION

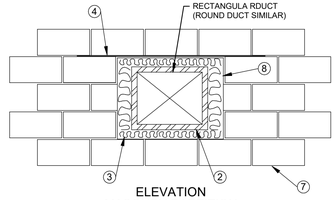


ELEVATION
DRYWALL PARTITION

1. WALL OPENING WITH FRAMING BY G.C.
2. DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
3. FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS BATT INSULATION.
4. LINTEL BY G.C.
5. WOOD OR METAL STUDS AT 16" O.C. BY G.C.
6. DRYWALL BY G.C.
7. MASONRY WALL BY G.C.
8. FRAMED MASONRY OPENING BY G.C.



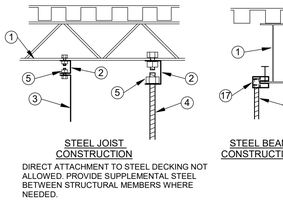
SECTION
MASONRY PARTITION



ELEVATION
MASONRY PARTITION

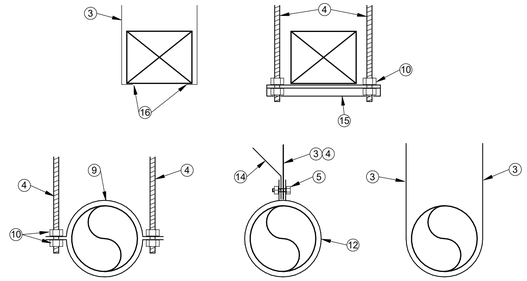
2 DUCT SEALING THRU NON-FIRE RATED WALL N.T.S.

* NEW CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"



DIRECT ATTACHMENT TO STEEL DECKING NOT ALLOWED. PROVIDE SUPPLEMENTAL STEEL BETWEEN STRUCTURAL MEMBERS WHERE NEEDED.

STRUCTURAL CONNECTIONS

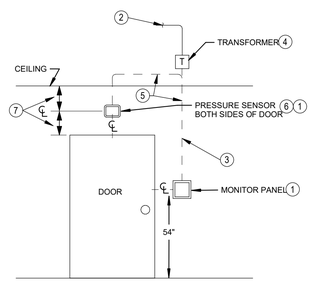


DUCT CONNECTIONS

1. STEEL JOIST OR BEAM.
2. UNISTRUT CHANNEL SPANNING TWO JOIST OR BEAMS. ATTACH TO BOTTOM CHORDS OF TWO BEAMS OR JOIST WITH "C" CLAMP.
3. GALVANIZED SHEETMETAL STRAP HANGER.
4. GALVANIZED THREADED ROD.
5. GALVANIZED BOLT & NUT.
6. CONCRETE SLAB.
7. WOOD DECK & BEAM.
8. STEEL ANGLE CLIP ENGINEERED FASTENER FOR THREADED ROD INTO WOOD.
9. TWO GALVANIZED BAND HANGERS.
10. RETAINING NUTS & WASHERS.
11. ATTACH TO BOTTOM OF WOOD BEAM OR JOIST WITH LAG BOLT.
12. ONE PIECE GALVANIZED STEEL BAND HANGER.
13. CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
14. SEISMIC SWAY BRACE ATTACHED TO STRUCTURE.
15. PAINTED STEEL UNISTRUT CHANNEL.
16. GALVANIZED STEEL RESTRAINT PER SMACNA REQUIREMENTS.
17. THREADED ROD BEAM CLAMP.

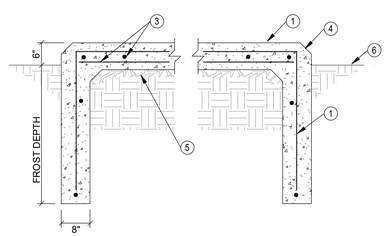
NOTE:
ALL HANGERS & SUPPORT OF DUCT SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS SECOND ADDITION - 1995.

3 DUCT HANGERS & SUPPORTS N.T.S. — **METAL STRAP & ROD HANGERS**



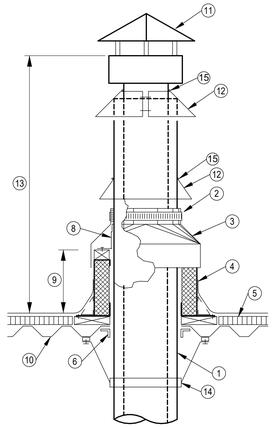
1. FURNISH AND INSTALL ISOLATION ROOM PRESSURE MONITOR SYSTEM-TSI MODEL PRESSURA RPM 10 WITH SENSOR, MONITOR, CABLES, TRANSFORMER AND ASSOCIATED HARDWARE. (LOCATIONS PER PLAN)
2. 120V. CRITICAL CCT TO TRANSFORMER BY E.C.
3. 3/4"C. IN WALL.
4. MOUNT ABOVE CORRIDOR CEILING AND WIRE TO MONITOR WITH FURNISHED CABLE.
5. INSTALL FURNISHED CABLE PER MANUFACTURER DIRECTION.
6. CENTER OVER DOOR.
7. EQUAL DISTANCE.

4 ROOM PRESSURE MONITOR N.T.S.



1. 6" THICK CONCRETE PAD. 3,500 PSI.
2. #4 BENT REBAR DOWEL @16" O.C.
3. #4 REBAR @12" O.C. EACH WAY.
4. 3/4" CHAMFER ALL EDGES.
5. COMPACTED #57 CRUSHED GRAVEL FILL. 4" THICKNESS MIN.
6. GRADE.

5 EXTERIOR CONCRETE EQUIPMENT PAD N.T.S.



1. DOUBLE WALL VENT. REFER TO SPECIFICATION.
2. DRAW BAND. FILL VOID WITH CAULK.
3. COUNTERFLASHING.
4. PREFABRICATED CURB.
5. INSULATION.
6. SUPPLEMENTAL STEEL FRAMING BY G.C.
7. LEAVE 1/4" SPACE AND FILL VOID WITH CAULK ALL AROUND.
8. SHEETMETAL SAFING ALL AROUND. TIGHT TO DUCT.
9. 12" MINIMUM.
10. ROOF DECK.
11. RAIN CAP.
12. STORM COLLAR.
13. MINIMUM 36" ABOVE ROOF.
14. STEEL SUPPORT RING. SECURE TO ROOF DECK WITH UNISTRUCT FRAMING.
15. HIGH TEMPERATURE RATED SEALANT.

6 DOUBLE WALL FLUE N.T.S.

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DETAILS

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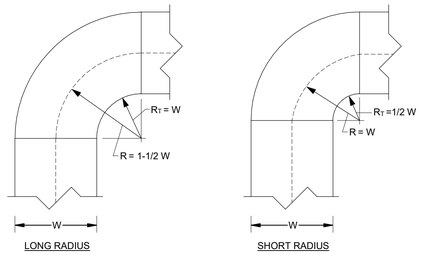
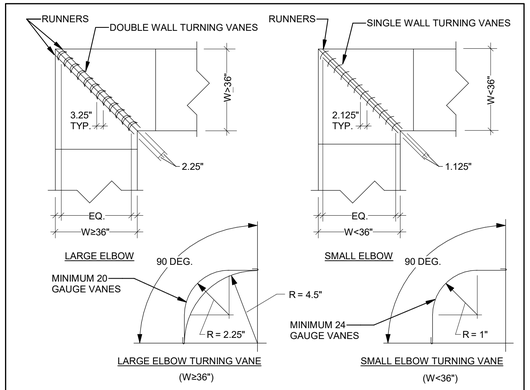


NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

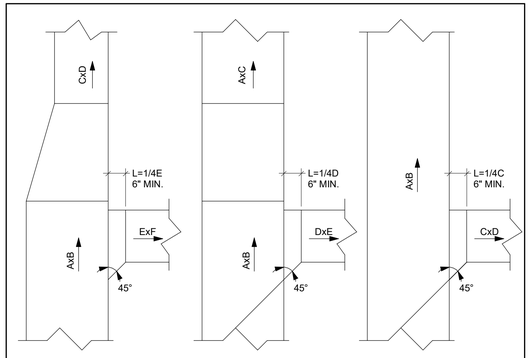
NOTE:
ELBOWS WITH 90 DEGREE SQUARE ON INSIDE RADIUS ARE NOT ACCEPTABLE.

1 RECTANGULAR 90° RADIUS ELBOW N.T.S.



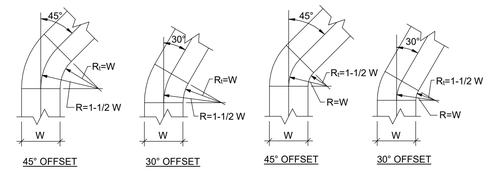
NOTES:
1. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
2. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
3. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60".
4. VANES ARE NOT TO HAVE TRAILING EDGES.

2 RECTANGULAR 90° MITERED ELBOW N.T.S.



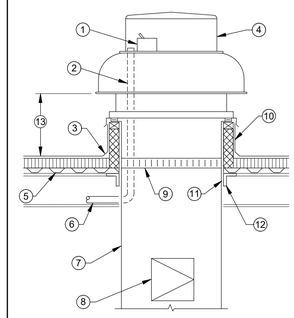
NOTES:
1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM OR CONCENTRIC.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
4. TAP HEIGHT DIMENSION SHOULD BE 2" SMALLER THAN MAIN DUCT HEIGHT.

3 RECTANGULAR 90° SIDE TAP N.T.S.



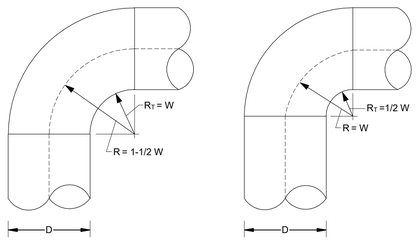
NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

4 RECTANGULAR 45° & 30° RADIUS ELBOW N.T.S.



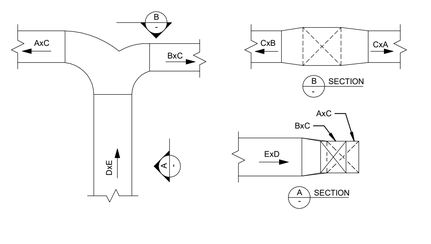
1. DISCONNECT SWITCH BY FAN MANUFACTURER.
2. WIRING CONDUIT CHASE BY FAN MANUFACTURER.
3. ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
4. EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION.
5. METAL ROOF DECK.
6. ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
7. EXHAUST DUCT-REFER TO PLANS/SCHEDULE FOR SIZE
8. ACCESS DOOR
9. 120V MOTORIZED DAMPER FROM MANUFACTURER.
10. 14" ROOF CURB WITH 1.5" INSULATION, INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
11. FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
12. SUPPLEMENTAL STEEL FRAMING BY G.C.
13. MINIMUM 18" ABOVE ROOF DECK.

5 ROOF MOUNTED EXHAUST FAN DETAIL DOWNBLAST, STEEL BEAM, METAL DECK



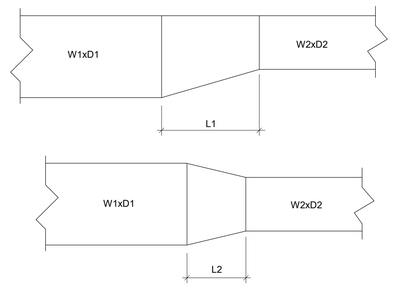
NOTES:
1. DIMENSION D AS SHOWN ON THE DRAWINGS.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

6 ROUND 90° RADIUS ELBOW N.T.S.



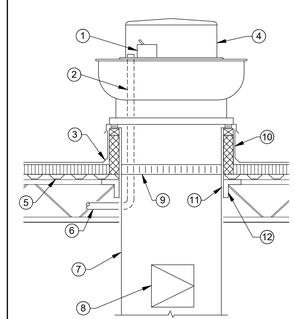
NOTES:
1. DIMENSIONS A, B, C, D, AND E AS INDICATED ON DRAWINGS.
2. TRANSITIONS SHOWN CONCENTRIC IN PLAN, MAY BE FLAT ON EITHER SIDE. TRANSITION SHOWN FLAT ON TOP IN SECTION, MAY BE FLAT ON BOTTOM OR CONCENTRIC. TRANSITION DUCT AS FIELD CONDITIONS DICTATE.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.

7 RECTANGULAR TEE REDUCING Y-BRANCHES N.T.S.



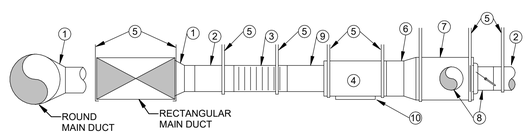
NOTES:
1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
2. FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)
   L1 = 4 x (W1-W2) OR 4 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 2 x (W1-W2) OR 2 x (D1-D2) WHICHEVER IS GREATER.
3. FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)
   L1 = 7 x (W1-W2) OR 7 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 3.5 x (W1-W2) OR 3.5 x (D1-D2) WHICHEVER IS GREATER.

8 RECTANGULAR TRANSITION N.T.S.



1. DISCONNECT SWITCH BY FAN MANUFACTURER.
2. WIRING CONDUIT CHASE BY FAN MANUFACTURER.
3. ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
4. EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION.
5. METAL ROOF DECK.
6. ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
7. EXHAUST DUCT-REFER TO PLANS/SCHEDULE FOR SIZE
8. ACCESS DOOR
9. 120V MOTORIZED DAMPER FROM MANUFACTURER.
10. 14" ROOF CURB WITH 1.5" INSULATION, INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
11. FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
12. SUPPLEMENTAL STEEL FRAMING BY G.C.

9 ROOF MOUNTED EXHAUST FAN DETAIL UPBLAST, STEEL JOIST, METAL DECK
N.T.S.



1. CONICAL TEE BRANCH FITTING.
2. ROUND SHEET METAL BRANCH DUCT. LENGTH AS REQUIRED. INSULATED.
3. INSULATED FLEXIBLE DUCT, 4' MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. DUCT SHALL BE FLEXMASTER TL-M ALUMINUM SPIRAL LINER WITH 1.5" INSULATION.
4. VAV REHEAT AIRFLOW CONTROL UNIT.
5. DUCT STRAP HANGER. ATTACH TO STRUCTURAL ELEMENTS.
6. ELECTRIC REHEAT COIL.
7. LOW PRESSURE RECTANGULAR SUPPLY DUCT. WHERE NOT SIZED ON THE DRAWINGS, SIZE TO MATCH COIL DIMENSIONS EXCEPT TRANSITION DUCT HEIGHT TO BE 2" HIGHER THAN LARGEST SPIN-IN BRANCH TAP FITTING.
8. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER AND INTEGRAL INSULATION GUARD SLEEVE.
9. 24" LONG SHEETMETAL AT BOX INLET - REDUCE LENGTH ONLY WHERE REQUIRED BY FIELD CONDITIONS.
10. ACCESS DOOR. LOCATE ON UNITS WITH REHEAT COILS ONLY.

NOTE:
COORDINATE WITH OTHER TRADES AND INSTALL VAV BOXES TO PROVIDE 18" SIDE AND UNOBSTRUCTED BOTTOM CLEARANCE TO CONTROLLER, ACTUATORS AND VALVES FOR MAINTENANCE. COORDINATE TO INSURE ACCESS IS PROVIDED BY SIMPLE REMOVAL OF ADJACENT UNRESTRICTED CEILING TILES (FREE OF CEILING MOUNTED DEVICES) WITHOUT NEED TO REMOVE LIGHTS OR CEILING GRID. ACCESS DOOR ON BOX IS FOR INSPECTION AND UPSTREAM COIL CLEANING. ACCESS DOOR USE IS RARE AND REMOVAL OF LIGHTS OR CEILING GRID TO GAIN ACCESS IS ACCEPTABLE.

MARK DESIGNATIONS AS SHOWN ON DRAWINGS ON ALL VAV BOXES WITH 2" HIGH PAINTED STENCIL LETTERING.

10 VARIABLE AIR VOLUME UNIT W/ REHEAT COIL N.T.S.

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63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

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NO.	DATE	DESCRIPTION
	11/17/2025	FOR CONSTRUCTION

DATE	11/17/2025
JOB NO.	4209.00
DRAWN	DJZ
CHECKED	JDZ

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H3.2

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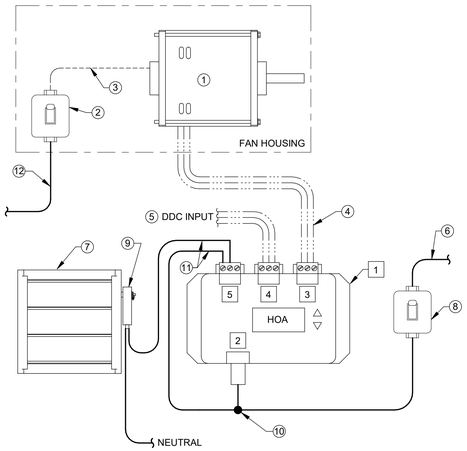
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3601 – Fax: (937) 223-3649
PROJECT # 24021

11/14/2025 9:15:25 AM



CONTROLLER NOTES

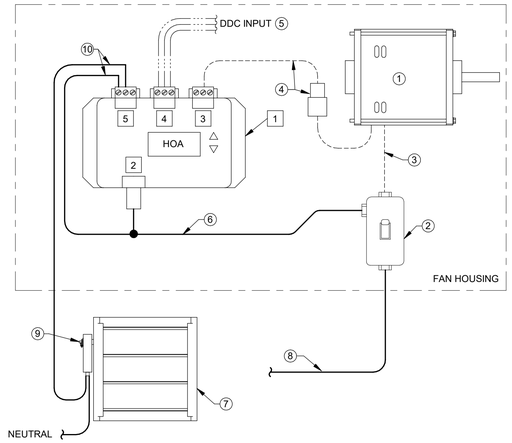
1. HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
2. 100 - 277V / 1 PHASE POWER TO CONTROLLER.
3. MOTOR CONTROL: 0-10 VDC, 24V, & COM.
4. DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
5. AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.

DETAIL NOTES

1. ECM FAN MOTOR
2. TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
3. THREE PHASE POWER SUPPLY WIRING BY MANUFACTURER.
4. DDC CONTROL WIRING TO FAN BY H.C.
5. DDC INPUT CONTROL WIRING BY H.C.
6. 120V POWER BY E.C.
7. DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
8. TOGGLE DISCONNECT SWITCH BY E.C.
9. 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
10. TAP 120V TO PROVIDE POWER TO BOTH HOA CONTROLLER AND DAMPER ACTUATOR.
11. WIRE 120V DAMPER POWER THROUGH AUXILARY CONTACT.
12. FAN SUPPLY CIRCUIT BY E.C.

WIRING BY H.C.
WIRING BY E.C.
WIRING BY MANUFACTURER

1 HOA CONTROLLER - THREE PHASE ECM FAN WIRING DIAGRAM
N.T.S.



CONTROLLER NOTES

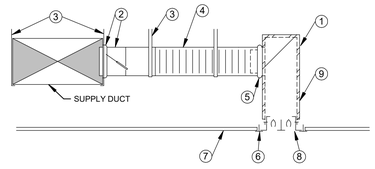
1. HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
2. 100 - 277V / 1 PHASE POWER TO CONTROLLER.
3. MOTOR CONTROL: 0-10 VDC, 24V, & COM.
4. DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
5. AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.

DETAIL NOTES

1. ECM FAN MOTOR.
2. TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
3. SINGLE PHASE WIRING BY MANUFACTURER.
4. CONTROL WIRING BY MANUFACTURER.
5. DDC INPUT CONTROL WIRING BY H.C.
6. LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
7. DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
8. SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
9. 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
10. WIRE 120V DAMPER POWER THROUGH AUXILARY CONTACT.

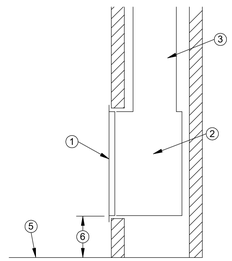
WIRING BY H.C.
WIRING BY E.C.
WIRING BY MANUFACTURER

2 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM
N.T.S.



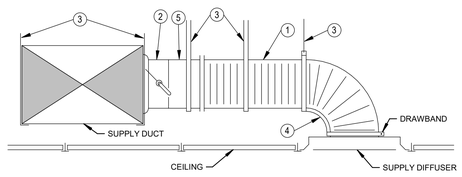
1. INSULATED PLENUM PROVIDED BY MANUFACTURER.
2. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
3. DUCT STRAP OR WIRE HANGER. ATTACH TO STRUCTURE.
4. FLEXIBLE DUCT, DIAMETER AS NOTED ON PLAN. 6' MAXIMUM LENGTH. STRECTH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4'. NO FLEXIBLE DUCT IN EXPOSED INSTALLATIONS.
5. PLENUM INLET COLLAR.
6. T-BAR BY G.C.
7. LAY-IN CEILING TILE.
8. SLOT AIR DEVICE WITH PATTERN CONTROLLERS.
9. ANCHOR PLENUM TO WALL IN NON-LAY IN CEILING APPLICATIONS.

3 SLOT DIFFUSER | LAY-IN CEILING
N.T.S.



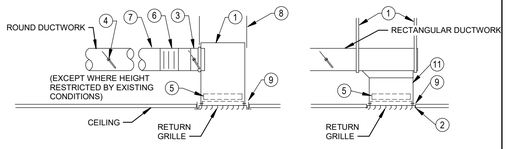
1. AIR DEVICE.
2. AIR DEVICE PLENUM.
3. DUCT DROP. SEE PLAN FOR SIZE.
4. BOTTOM OF DEVICE IS APPROX. 12" ABOVE FLOOR.
5. FLOOR.
6. OPPOSED BLADE DAMPER. PROVIDE WITH AIR DEVICE.

4 LOW GRILLE
N.T.S.



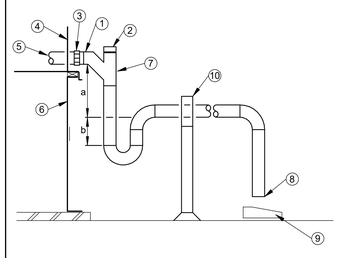
1. FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET (ABOVE ACCESSIBLE CEILING ONLY USE SHEETMETAL ONLY ABOVE INACCESSIBLE CEILING). 7 FT. MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4 FT.
2. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
3. DUCT STRAP HANGER. ATTACH TO STRUCTURE. PER SMACNA.
4. 90 DEGREE FLEXIBLE ELBOW SUPPORT BY FLEXRIGHT, FLEXFLOW OR SMARTFLOW. PROVIDE WITH DRAWBANDS, UL-2043 RATING.
5. SHEETMETAL DUCT, SAME DIAMETER AS DIFFUSER INLET. LONGITUDINAL OR SPIRAL LOCK SEAM, 0.50" S.P. CONSTRUCTION. PROVIDE EXTERIOR INSULATION, 1.5" THICKNESS, 0.75" DENSITY FIBERGLASS WITH FOIL/KRAFT PAPER JACKET.

5 CEILING DIFFUSER
N.T.S.



1. PLENUM - SIZE TO MATCH GRILLE. PAINT INTERIOR OF PLENUM FLAT BLACK.
2. EXHAUST/RETURN GRILLE FRAME TO MATCH CEILING CONDITION.
3. SPIN-IN FITTING WITH BALANCING DAMPER, USE FOR ALL ACCESSIBLE CEILINGS.
4. PROVIDE REMOTE BALANCING DAMPER IN BRANCH DUCT ABOVE ACCESSIBLE CEILING FOR EACH GRILLE WHERE GRILLE IS INSTALLED ABOVE INACCESSIBLE CEILING.
5. PROVIDE BALANCING DAMPER AT DEVICE ONLY WHERE DUCT MOUNTED DAMPER CANNOT BE PROVIDED DUE TO INACCESSIBLE CEILING.
6. FLEXIBLE DUCT ACCEPTABLE ABOVE ACCESSIBLE CEILING ONLY, MAX. 2 FT., REFER TO CEILING DIFFUSER DETAIL FOR INSTALLATION REQUIREMENTS.
7. SHEETMETAL DUCT.
8. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
9. FASTEN SHEETMETAL PLENUM OR DUCT TO AIR DEVICE, EACH SIDE.
10. DUCT STRAP HANGER.
11. VIEWABLE PORTION OF DUCT INTERIOR TO BE PAINTED FLAT BLACK.

6 EXHAUST/RETURN GRILLE - DUCTED
N.T.S.

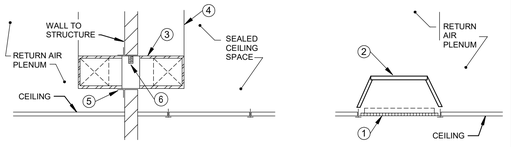


1. DRAIN PIPE. SAME SIZE AS UNIT OUTLET.
2. CLEANOUT PLUG.
3. UNION.
4. SIDE OF ROOFTOP UNIT.
5. FROM DRAIN PAN.
6. ROOF CURB. REFER TO DETIAL 2, H3.4.
7. DRAINAGE WYE FITTING.
8. OPEN DRAIN - 1" AIR GAP.
9. 12"x12"x1" THICK CONCRETE SPLASH BLOCK. PLACE ON TOP OF ADDITIONAL PIECE OF ROOFING MEMBRANE.
10. ADJUSTABLE PIPE SUPPORT. ERICO CADDY PYRAMID EZ OR EQUAL. SET SUPPORT ON MEMBRANE.

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2

-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

7 ROOFTOP COOLING COIL CONDENSATE PIPING
N.T.S.



1. RETURN GRILLE.
2. RETURN AIR CANOPY.
3. TRANSFER AIR DUCT THROUGH FULL HEIGHT WALL. PROVIDE 1/2" INTERNAL DUCT LINER. REFER TO FLOOR PLAN FOR DUCT SIZE.
4. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
5. FRAME OPENING THROUGH WALL AS REQUIRED AND SEAL WALL PENETRATION SMOKE TIGHT.
6. FIRE DAMPER WHERE INDICATED ON PLAN.

8 TRANSFER AIR GRILLE/PLENUM
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63822
REGISTERED PROFESSIONAL ENGINEER

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EXPIRATION DATE 12/31/2025

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	11/17/2025	FOR CONSTRUCTION

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PROJECT # 24021

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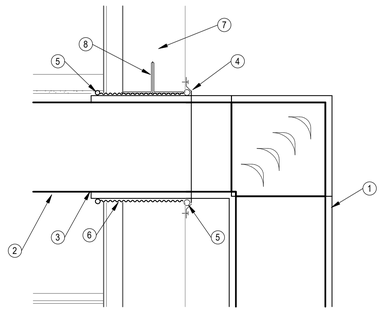
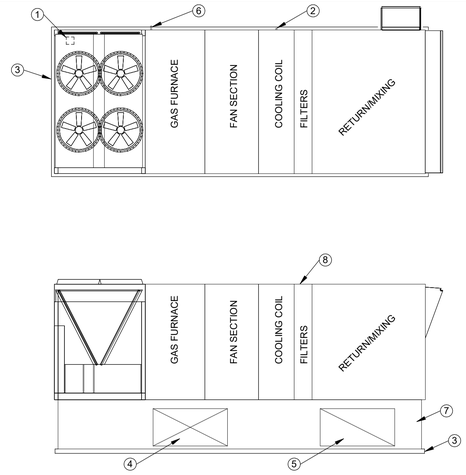


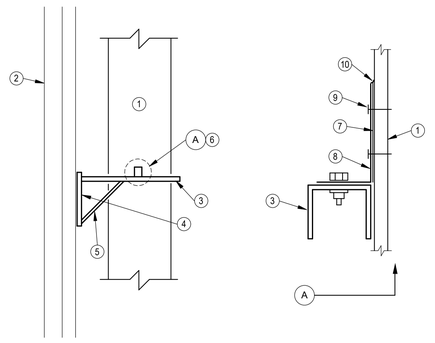
1. EXTERIOR DUCT SYSTEM.
2. INTERIOR DUCT.
3. MATERIAL TYPE TRANSITION INSIDE OF BUILDING.
4. STAINLESS STEEL ESCUTCHEON FLANGE ALL FOUR SIDES OF DUCT.
5. SILICONE WALL SEALANT CAULK. SEAL AROUND ALL SIDES OF DUCT WATER TIGHT.
6. FILL OPENING VOID WITH MINERAL WOOL.
7. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION INFORMATION.
8. STEEL LINTEL BY G.C.

1 THERMADUCT EXTERIOR WALL PENETRATION
N.T.S.



1. ELECTRICAL CONNECTION POINT ON UNIT.
2. CONDENSATE DRAIN, REFER TO DETAIL 7, H3.3.
3. EXTERIOR CONCRETE EQUIPMENT PAD BY H.C. SECURE CURB TO CONCRETE PAD. ENSURE BASE IS SEALED WATER TIGHT.
4. SUPPLY DUCT CONNECTION TO SIDE OF ROOF CURB.
5. RETURN DUCT CONNECTION TO SIDE OF ROOF CURB.
6. NATURAL GAS CONNECTION POINT ON UNIT.
7. 36" HIGH INSULATED ROOF CURB WITH SIDE DUCTWORK CONNECTIONS.
8. ROOFTOP UNIT. REFER TO H0.3 FOR INFORMATION.

2 PACKAGED HVAC UNIT
N.T.S.



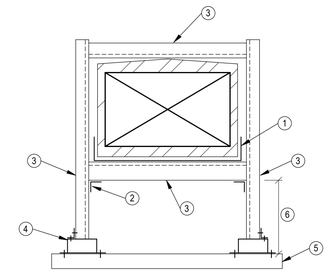
WALL ELEVATION

1. THERMADUCT.
2. EXTERIOR WALL.
3. UNISTRUT SUPPORT. ALL FOURS SIDES OF DUCT.
4. SECURE UNISTRUT TO EXTERIOR WALL.
5. UNISTRUT ANGLE SUPPORT.
6. ANGLED ANCHOR BRACKET.
7. EPDM FOAM GASKET.
8. SUPPORT BRACKET.
9. #14 HWH STAINLESS SELF-TAP SMS, W / PAINTED HEX HEAD.
10. CAULK.

GENERAL NOTES

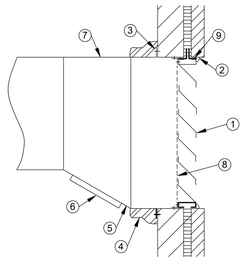
1. REFER TO MANUFACTURERS INSTRUCTIONS FOR VERTICAL SUPPORT INSTALLATION.

3 THERMADUCT EXTERIOR WALL MOUNTING
N.T.S.



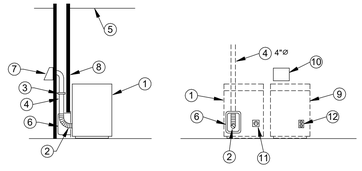
1. THERMADUCT W/12" LONG SADDLE.
2. UNISTRUT 90 DEGREE SUPPORT CLIP.
3. UNISTRUT SUPPORT. FLAT SIDE TOWARD DUCT.
4. UNISTRUT POST BASE. SECURE TO CONCRETE SLAB.
5. EXTERIOR EQUIPMENT PAD BY G.C.
6. HEIGHT AS REQUIRED.

4 THERMADUCT SUPPORT ON GRADE
N.T.S.



1. FRESH AIR, EXHAUST OR VENT AIR LOUVER. SEE AIR DEVICE SCHEDULE.
2. PLIABLE CAULK ALL FOUR SIDES.
3. FLANGE CONNECTION TO WALL.
4. INSULATION.
5. 30 DEG. DUCT TRANSITION.
6. ACCESS DOOR.
7. SHEETMETAL EXHAUST, FRESH AIR OR VENT AIR DUCT.
8. BIRDSCREEN.
9. STEEL LINTEL BY G.C.
10. INSULATION.

8 WALL LOUVER
N.T.S.

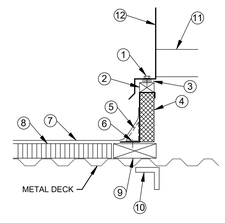


NOTE:
1. COORDINATE LOCATION OF VENT BOX WITH WASHER & DRYER PROVIDED AND WITH ELEC. & PLBG. CONTRACTORS ON LOCATION OF RECEPTACLES & WASHER BOX.

4" SIZE EXCEPT LARGER IF RECOMMENDED BY DRYER MANUFACTURER.

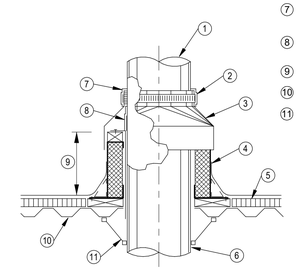
1. DRYER.
2. FLEXIBLE ALUMINUM DUCT WITH METAL DRAWBAND CONNECTORS. FLEXMASTER TYPE NI-TL.
3. STAINLESS STEEL DUCT SUPPORT.
4. ALUMINUM SPIRAL DUCT.
5. LAY-IN CEILING.
6. RECESSED DRYER VENT BOX. FLUSH MTD. IN 6" STUD WALL. 22 GA. ALUMINIZED STEEL WITH FLANGE, 4" DIA. TOP OUTLET, 9"Wx18"Hx5.5"DP. INSIDE DIMENSION. FASTEN TO WALL AT FLANGE TO CONNECT TO STUDS. AMERICAN ALDES MODEL PN OR BY IN-O-VATE TECHNOLOGIES OR EQUAL. MOUNT BOTTOM AT 4" ABOVE FLOOR.
7. DRYER VENT THRU WALL WHERE INDICATED ON FLOOR PLANS. TERMINATE WITH HOODED WALL CAP. GREENHECK WC-4 WITH POWDER COAT FINISH.
8. DRYWALL OR MASONRY ENCLOSURE BY G.C.
9. WASHER.
10. WASHER UTILITY BOX BY P.C.
11. DRYER RECEPTACLE BY E.C.
12. DOUBLE DUPLEX RECEPTACLE BY E.C.

5 DRYER VENT
N.T.S.



1. SECURE EQUIPMENT TO CURB WITH 3/8" LAG BOLTS PER MFR. RECOMMENDATION.
2. PRESSURE TREATED WOOD NAILER.
3. GASKET PROVIDED WITH ROOFTOP UNIT.
4. 14" HIGH ALUMINUM CURB WITH 1.5" FIBERGLASS INSULATION.
5. FLASHING. CANT STRIPS (IF REQUIRED), ROOFING MATERIAL & ROOFING CONSTRUCTION BY G.C.
6. FASTEN CURB BASE TO BLOCKING.
7. EXISTING ROOFING.
8. EXISTING INSULATION.
9. PRESSURE TREATED WOOD BLOCKING BY H.C. FASTEN TO DECK. BLOCKING TO BE SAME SIZE AS INSULATION THICKNESS.
10. SUPPLEMENTAL STEEL FRAMING BY G.C.
11. ROOFTOP BASE.
12. ROOFTOP UNIT.

6 ROOFTOP UNIT ROOF CURB | EXISTING METAL DECK
N.T.S.



1. EXHAUST DUCT.
2. DRAW BAND.
3. COUNTERFLASHING.
4. PREFABRICATED CURB.
5. INSULATION.
6. INSULATION (WHERE REQUIRED).
7. LEAVE 1/4" SPACE AND FILL VOID WITH CAULK ALL AROUND.
8. SHEETMETAL SAFING ALL AROUND. TIGHT TO DUCT.
9. 12" MINIMUM.
10. EXISTING ROOF STRUCTURE.
11. SUPPORT DUCT FROM ROOF DECK.

7 DUCT ROOF PENETRATION
N.T.S.

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JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

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PROJECT # 24021

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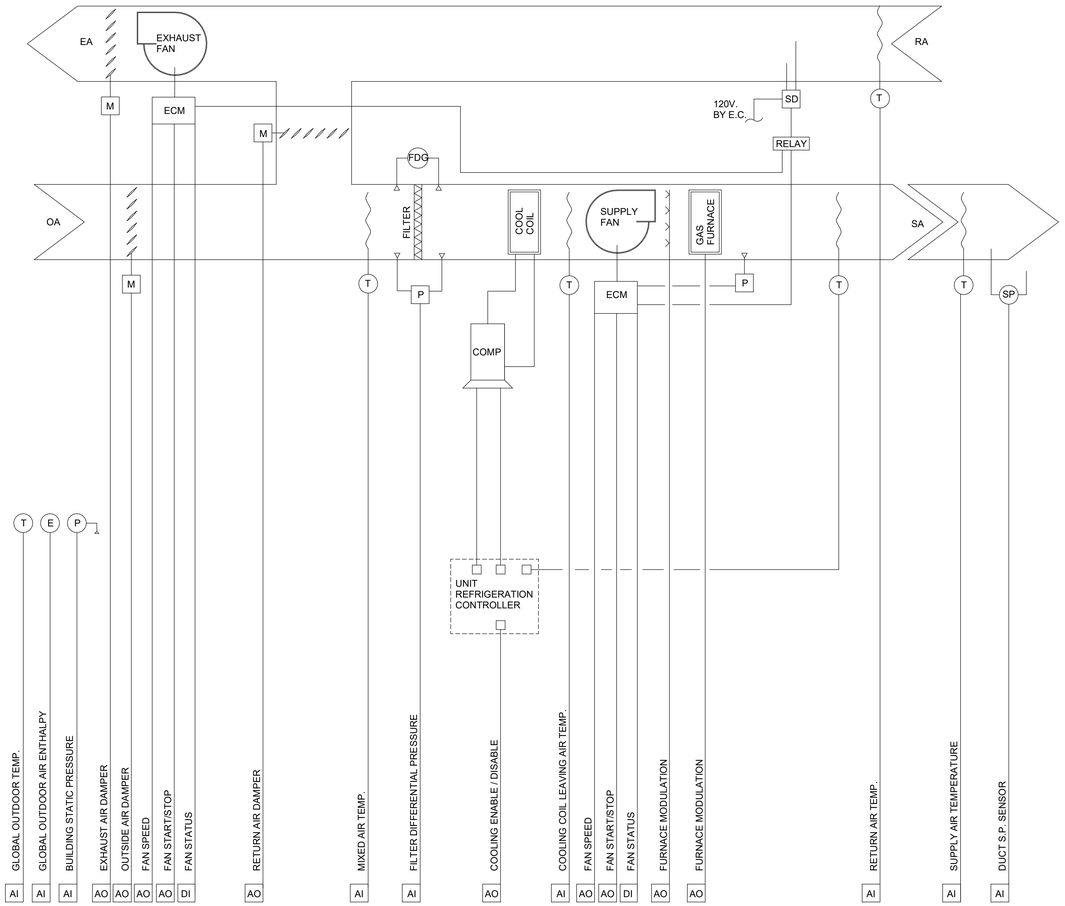


1 RTU-1 CONTROL DIAGRAM
N.T.S.

SEQUENCE OF OPERATION

UNIT OPERATION

THE AIR HANDLING SYSTEMS SHALL OPERATE IN AN OCCUPIED OR UNOCCUPIED MODE OF OPERATION, BASED ON A CALENDAR AND TIME OF DAY ADJUSTABLE SCHEDULE. THE SYSTEM SHALL ALLOW SCHEDULING FOR DAILY AND WEEKEND SCHEDULING.

THE STANDARD BUILDING OCCUPANCY SHALL BE 24/7/365. THE UNOCCUPIED MODES OF OPERATION SHALL BE PROGRAMMED IN IF BUILDING OCCUPANCY SCHEDULE CHANGES FROM 24/7/365 IN THE FUTURE.

UNOCCUPIED SETBACK MODE (OAT <60°F)

DURING THE UNOCCUPIED MODE WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F, THE SUPPLY AND EXHAUST FANS SHALL BE OFF. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL BE CLOSED, THE RETURN DAMPERS FULL OPEN. DX COIL AND GAS FURNACE SHALL BE OFF.

IF ANY SPACE TEMPERATURE ON THE SYSTEM DROPS BELOW 62°F (ADJ) THE SUPPLY FAN SHALL START AND CONTROL TO THE STATIC PRESSURE SET POINT. OUTSIDE AND EXHAUST AIR DAMPERS SHALL REMAIN CLOSED AND THE DX COIL SHALL REMAIN OFF. THE HOT WATER COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN A UNIT SUPPLY AIR TEMPERATURE OF 70°F.

WHEN THE SPACE TEMPERATURE RISES ABOVE 65°F. THE SUPPLY FAN SHALL CYCLE OFF.

UNOCCUPIED SET UP MODE (OAT > 60°F)

DURING THE UNOCCUPIED MODE WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F THE UNIT SHALL ENTER THE TEMPERATURE SET UP MODE. THE SUPPLY FANS SHALL BE OFF. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL BE CLOSED, RETURN AIR DAMPERS FULL OPEN. DX COIL AND GAS FURNACE SHALL BE OFF.

IF ANY SPACE TEMPERATURE ON THE SYSTEM RISES ABOVE 82°F, THE SUPPLY FANS SHALL START AND CONTROL TO THE STATIC PRESSURE SET POINT. OUTSIDE AND EXHAUST AIR DAMPERS SHALL BE CLOSED AND THE GAS FURNACE SHALL BE OFF. THE DX COIL SHALL MODULATE TO MAINTAIN A 55°F UNIT SUPPLY AIR TEMPERATURE.

WHEN THE SPACE TEMPERATURE REACHES 78°F THE SUPPLY FANS SHALL CYCLE OFF.

MORNING START-UP CYCLES

THE PROGRAM SHALL BE CAPABLE OF AN OPTIMAL START SEQUENCE THAT SHALL START THE SYSTEMS, AS INDICATED BELOW, IN ADVANCE OF THE OCCUPIED TIME.

MORNING WARM UP

THE SUPPLY FANS SHALL START AND CONTROL TO THE STATIC PRESSURE SET POINT. THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE CLOSED AND THE DX COIL SHALL BE OFF. RETURN DAMPERS SHALL BE FULL OPEN. THE GAS FURNACE SHALL MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 70 DEG F.

VAV TERMINAL UNITS SHALL OPERATE IN THEIR "OCCUPIED - STANDBY" MODE OF OPERATION.

SEQUENCE OF OPERATION

MORNING COOL DOWN

THE SUPPLY FANS SHALL START AND CONTROL TO THE STATIC PRESSURE SET POINTS. THE DX COIL MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 55°F. THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE FULLY CLOSED, RETURN AIR DAMPERS FULLY OPEN, UNLESS THE OUTSIDE AIR TEMPERATURE IS SUCH THAT THE ECONOMIZER CYCLE CAN BE USED. GAS FURNACE SHALL BE OFF.

VAV TERMINAL UNITS SHALL OPERATE IN THEIR "OCCUPIED - STANDBY" MODE OF OPERATION.

OCCUPIED MODE

WHEN INDEXED TO THE OCCUPIED MODE THE OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO THEIR OCCUPIED POSITION. THE OUTSIDE AIR DAMPERS SHALL OPEN TO PROVIDE THE MINIMUM OUTDOOR VENTILATION AIR INDICATED ON DRAWING H5.1 AND AS BALANCED BY THE BALANCING CONTRACTOR.

THE ECONOMIZER DAMPERS (ECON. OPERATION), DX COIL, AND GAS FURNACE SHALL MODULATE IN SEQUENCE, WITHOUT OVERLAP, TO MAINTAIN THE SUPPLY AIR TEMPERATURE (SAT) SET POINT. THE SUPPLY TEMPERATURE SHALL BE RESET ACCORDING TO THE FOLLOWING SCHEDULE:

OAT = 20 DEG F SAT SET POINT = 62 DEG F
OAT = 72 DEG F SAT SET POINT = 55 DEG F

OUTSIDE AIR ECONOMIZER

GLOBAL OUTSIDE AIR TEMPERATURE SENSOR AND ENTHALPY SENSOR. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 70°F AND THE ENTHALPY IS BELOW 28 BTU/LB, THE ECONOMIZER SHALL BE ENABLED. ABOVE EITHER VALUE THE ECONOMIZER SHALL BE DISABLED.

DURING ECONOMIZER CYCLE THE OUTSIDE AIR DAMPER SHALL SHALL MODULATED OPEN AS REQUIRED TO MAINTAIN THE UNIT DISCHARGE AIR TEMPERATURE SET POINT. THE RETURN AIR DAMPERS SHALL INVERSELY TRACK THE OUTSIDE AIR DAMPERS. REFER TO EXHAUST FAN CONTROL SECTION BELOW FOR EXHAUST FAN AND EXHAUST DAMPER CONTROL.

PROVIDE A MIXED AIR TEMPERATURE SENSOR FOR LOW LIMIT CONTROL SET AT 50 DEG F. TO PREVENT OVER-OPENING THE OUTSIDE AIR DAMPERS.

SUPPLY FANS VOLUME CONTROL

THROUGH THE ECM FAN CONTROLLER THE FAN SPEED SHALL BE MODULATED TO MAINTAIN A DUCT STATIC PRESSURE SENSOR (LOCATION SHOWN ON THE DRAWINGS). INITIAL SET POINT SHALL BE 1 INCH STATIC BUT SHALL BE ADJUSTED TO THE LOWEST POSSIBLE READING BY THE BALANCING CONTRACTOR.

THE DUCT STATIC PRESSURE SHALL BE RESET BASED VAV TERMINAL UNIT DAMPER POSITIONS. IF ANY ON VAV TERMINAL DAMPER EXCEEDS 95% OPEN THE STATIC PRESSURE SET POINT SHALL INCREASE BY 0.1" W.C. IF ALL DAMPER POSITIONS ARE LESS THAN 95% OPEN THEN THE SET POINT SHALL BE REDUCED BY 0.1". DAMPER POSITIONS SHALL BE POLLED AND SETPOINT RESET SHALL OCCUR EVERY 5 MINUTES. STATIC PRESSURE SET POINT RESET SHALL HAVE A MINIMUM AND MAXIMUM RESET RANGE INITIALLY SET AT 0.5" MINIMUM AND 1.5" MAXIMUM. THE REST RANGE LIMITS SHALL BE DISPLAYED ON THE DDC AHU GRAPIC AND ADJUSTABLE BY THE SYSTEM OPERATOR. THE SYSTEM OPERATION SHALL ALSO BE ABLE TO REMOVE SPECIFIC VAV UNITS FROM THE RESET SEQUENCE VIA THE SYSTEM GRAPHICS.

SEQUENCE OF OPERATION

EXHAUST FAN & EXHAUST DAMPER CONTROL

THE EXHAUST FAN AND EXHAUST DAMPER SHALL OPERATE BASED ON THE OUTSIDE AIR DAMPER POSITION:

OUTSIDE AIR DAMPER: MINIMUM POSITION
- EXHAUST FAN OFF.
- EXHAUST DAMPER CLOSED.

OUTSIDE AIR DAMPER: > MIN. POSITION, < 50% OPEN.
- EXHAUST FAN OFF.
- EXHAUST DAMPER OPEN.

OUTSIDE AIR DAMPER: > 50% OPEN.
- EXHAUST FAN ON - MODULATE TO MAINTAIN BUILDING STATIC PRESSURE SETPOINT 0.01" W.C. (ADJ.)
- EXHAUST DAMPER OPEN.

SAFETIES

THE FOLLOWING SAFTIES SHALL BE PROVIDED TO STOP THE UNIT FANS AND POSITION CONTROL DEVICES TO THEIR "FAIL SAFE" POSITION, I.E. OUTSIDE AND RELIEF DAMPERS CLOSED, RETURN DAMPERS OPEN, GAS FURNACE AND DX COILS OFF. ANY SAFETY TRIP SHALL SEND AN ALARM TO THE DDC CONSOLE.

A. SUPPLY DUCT HIGH STATIC - SET POINT 4" (ADJ)
B. RETURN AIR SMOKE DETECTOR.
   - T.C. SHALL PROVIDE ALL REQUIRED COMPONENTS, RELAYS, ETC. TO CONNECT THE DUCT SMOKE DETECTOR TO THE ECM FAN CONTROLLER.
C. REFRIGERANT MONITOR ALARM

GENERAL CONTROLS NOTES:

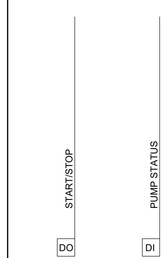
1. THE T.C. SHALL COORDINATE WITH THE OWNER TO SET UP ALARM DIAL-OUT FUNCTION OF THE DDC SYSTEM TO ALL REQUIRED CITY MAINTENANCE AND POLICE DEPARTMENT STAFF.
2. THE BUILDING IS OCCUPIED 24/7/365.

SEQUENCE OF OPERATION

THE DOMESTIC HOT WATER CIRCULATION PUMP SHALL OPERATE BASED ON AN OCCUPIED / UNOCCUPIED SCHEDULE.

WHEN THE BUILDING IS OCCUPIED, THE PUMP SHALL RUN CONTINUOUSLY. WHEN UNOCCUPIED, THE PUMP SHALL BE OFF. THE DDC SYSTEM SHALL MONITOR PUMP STATUS.

THE BUILDING SHALL BE OCCUPIED 24/7/365. COORDINATE WIRING FROM CONTROL SYSTEM TO MOTOR STARTER WITH P.C. AND E.C.

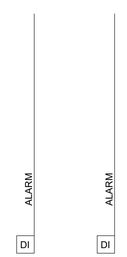


2 DOMESTIC WATER CIRCULATION PUMP
N.T.S.

SEQUENCE OF OPERATION

THE WATER BACKFLOW PREVENTER IS EQUIPED WITH A 24V DRY CONTACT TO PROVIDE AN ALARM SIGNAL. THE BUILDING IS EQUIPPED WITH DUAL-BACKFLOW PREVENTERS AND THUS REQUIRES TWO ALARMS.

THE T.C. SHALL CONNECT THE DDC CONTROL SYSTEM TO THE BACKFLOW PREVENTER TO RECEIVE THIS ALARM SIGNAL AND PERFORM A DIAL OUT FEATURE TO ALERT CITY AND POLICE PERSONEL. PROVIDE ALL REQUIRED DEVICES TO GENERATE AND RECEIVE THE 24 VOLT SIGNAL.



3 DOMESTIC WATER BACKFLOW PREVENTER
N.T.S.

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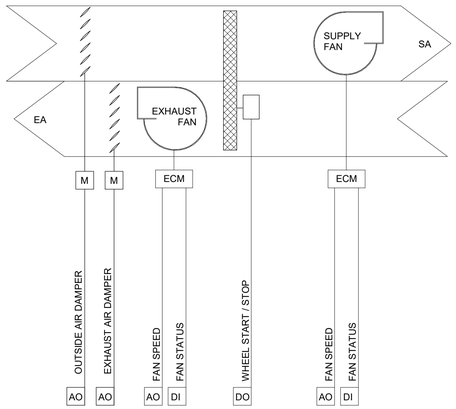
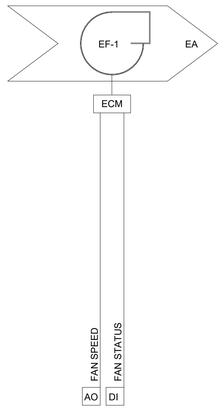
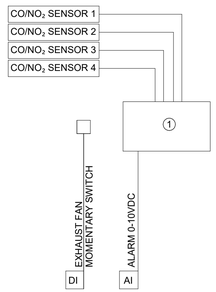






SEQUENCE OF OPERATION

FAN OPERATION

THE ERV SHALL BE NORMALLY OFF. EF-1 SHALL RUN CONTINUOUSLY.

THE DDC SYSTEM SHALL START/STOP THE ERV UPON RECEIVING AN ALARM FROM THE CO/NO$_2$ MONITORING SYSTEM OR A LOCAL MANUAL, MOMENTARY, OVER-RIDE WALL PUSH BUTTON.

ERV-1 MAX SUPPLY / EXHAUST AIRFLOW: 1,250 CFM.

WHEN THE FAN IS INDEXED TO EITHER THE 50% OR MAXIMUM AIRFLOW, THE FAN SHALL RUN FOR A MINIMUM OF 15 MINUTES AT THE RESPECTIVE AIRFLOW.

CO/NO2 SENSOR CONTROL

THE APPARATUS BAY'S CO/NO$_2$ SHALL BE PROGRAMMED TO THE FOLLOWING ALARM LEVELS.

ALARM LEVELS:
- NO ALARM: CO (<34 PPM) AND NO2 (<2.5 PPM)
- ALARM LEVEL 1: CO (35 - 50 PPM) OR NO2 (2.5 - 2.8 PPM)
- ALARM LEVEL 2: CO (>50 PPM) OR NO2 (>2.8 PPM)

FAN AIRFLOW:
- NO ALARM: OFF.
- ALARM LEVEL 1: 50% OF MAXIMUM AIRFLOW
- ALARM LEVEL 2: MAXIMUM AIRFLOW

MANUAL MOMENTARY WALL SWITCH

THE MANUAL MOMENTARY OVER-RIDE SWITCH SHALL COMMAND THE FAN TO 50% OF MAXIMUM AIRFLOW FOR 15 MINUTES (ADJ).

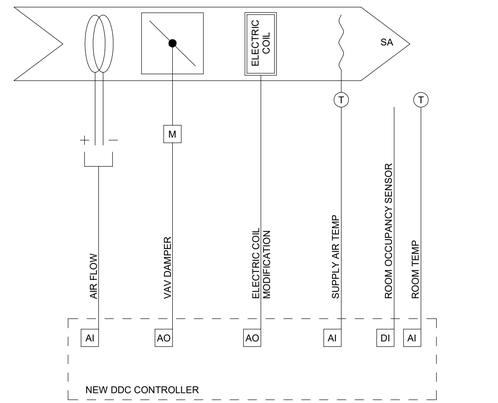
FAN SPEED CONTROL PRIORITY

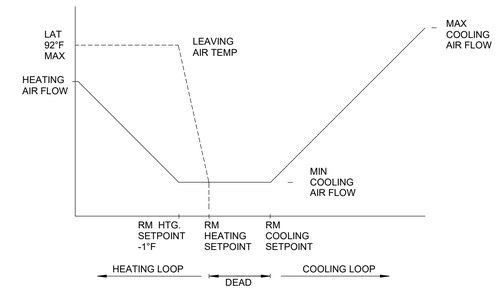
THE CO/NO$_2$ SENSOR SHALL HAVE PRIORITY TO CHANGE THE FAN SPEED AT ANY TIME. IF THE MOMENTARY WALL SWITCH IS ACTIVATED TO RAISE THE FAN TO 50% AIRFLOW AND THE CO/NO$_2$ SENSOR ALARMS, THE FAN SHALL BE INDEXED TO RUN AT THE RESPECTIVE ALARM LEVEL AND RESET ITS RUN TIMER.

THE MOMENTARY FAN SWITCH SHALL ONLY START THE FAN SPEED IF THERE IS NO ALARM LEVEL FROM THE CO/NO$_2$ SENSOR AND THE FAN IS OFF. THE MOMENTARY WALL SWITCH SHALL NOT OVERRIDE THE CO/NO2 CONTROLLER.

① CO/NO$_2$ CONTROL PANEL BY T.C. SEE H2.1 FOR MOUNTING LOCATION AND REFER TO SPECIFICATIONS FOR EQUIPMENT INFORMATION

1 BOMB SQUAD ERV & EXHAUST FAN CONTROLS





SEQUENCE OF OPERATION

A. THE VAV BOX MANUFACTURER SHALL INCLUDE PNEUMATIC FLOW TAPS FROM THE AIR FLOW SENSOR ON THE BOX INLET AND AN INTEGRAL DAMPER WITH PROTRUDING SHAFT. ALL OTHER CONTROL COMPONENTS SHALL BE FURNISHED BY THE T.C.

B. TERMINAL UNITS SHALL OPERATE IN AN "OCCUPIED" AND "UNOCCUPIED" MODE OF OPERATION. OCCUPIED AND UNOCCUPIED SHALL BE DETERMINED FROM THE RESPECTIVE AIR HANDLING SYSTEM. VAV TERMINAL UNITS INDICATED IN THE VARIABLE AIR VOLUME UNIT SCHEDULE INCLUDE THE "OCCUPIED STAND-BY" MODE SEQUENCE. OCCUPIED STAND-BY SHALL BE DETERMINED BY THE VAV'S RESPECTIVE ROOM OCCUPANCY/VACANCY SENSOR WHEN THE SYSTEM IS IN OCCUPIED MODE.

ROOM TEMPERATURE SET POINTS:

OCCUPIED: COOLING 72° F, HEATING 68° F

OCCUPIED STAND-BY: COOLING 77° F, HEATING 66° F

UNOCCUPIED: COOLING 80° F, HEATING 65°F

C. CONSTANT VOLUME CONTROL - TERMINAL UNIT SHALL MAINTAIN A CONSTANT AIR FLOW VOLUME. ELECTRIC HEATING COIL SHALL MODULATE TO MAINTAIN ROOM TEMPERATURE AT SETPOINT. PROVIDE A 2 DEG. F DEADBAND. WHEN THE ROOM TEMPERATURE IS BELOW SETPOINT THE ELECTRIC COIL SHALL MODULATE ON. AS THE SPACE TEMPERATURE RISES TO SETPOINT THE ELECTRIC COIL SHALL MODULATE DOWN. WHEN THE ROOM TEMPERATURE RISES ABOVE THE HEATING SETPOINT THE ELECTRIC COIL SHALL SHUT OFF.

D. VARIABLE AIR VOLUME CONTROL - AS THE SPACE TEMPERATURE RISES ABOVE THE COOLING SET POINT THE AIR FLOW DAMPER SHALL MODULATE FROM THE MINIMUM TO THE MAXIMUM COOLING AIRFLOW. THE ELECTRIC COIL SHALL BE OFF.

AS THE SPACE TEMPERATURE DROPS TOWARDS THE COOLING SET POINT THE AIR FLOW DAMPER SHALL MODULATE FROM THE MAXIMUM TO THE MINIMUM FLOW RATE.

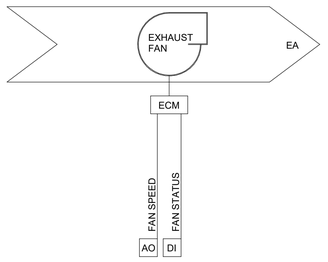
UPON AN CONTINUED DROP IN SPACE TEMPERATURE, THROUGH A DEADBAND THE TERMINAL UNIT SHALL THEN ENTER THE HEATING MODE. THE AIR FLOW SHALL BE SET AT THE MINIMUM FLOW AND THE ELECTRIC REHEAT COIL SHALL MODULATE ON. THE UNIT DISCHARGE AIR TEMPERATURE SHALL BE RESET VIA A PID LOOP FROM 55 DEG. F UP TO 95 DEG F BASED ON ROOM TEMPERATURE BELOW THE HEATING SET POINT.

AS THE SPACE TEMPERATURE CONTINUES TO DROP THE AIR FLOW SET POINT SHALL BE INCREASED TOWARD THE HEATING AIR FLOW SET POINT. THE MAXIMUM DISCHARGE AIR TEMPERATURE SHALL REMAIN LIMITED TO 95° F.

E. DISCHARGE AIR TEMPERATURE SENSOR - PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR IN THE SUPPLY DUCT (FIELD INSTALLED BY THE TEMPERATURE CONTROL SUBCONTRACTOR) FOR EACH REHEAT BOX FOR CONTROL, MONITORING AND TROUBLE SHOOTING PURPOSES. THE SENSOR SHALL BE A PRECISION THERMISTOR TYPE, WITH ACCURACY OF + OR - 0.5 DEG. F., MAXIMUM.

TERMINAL UNITS THAT SHARE A ROOM TEMP. SENSOR SHALL CONTROL IN UNISON PER THE ABOVE SEQUENCE.

2 **AIR TERMINAL UNIT CONTROL DIAGRAM** N.T.S.

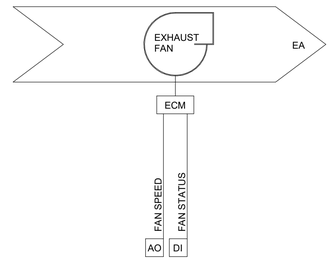


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY WHEN THE BUILDING IS OCCUPIED.

3 EF-3 CONTROLS

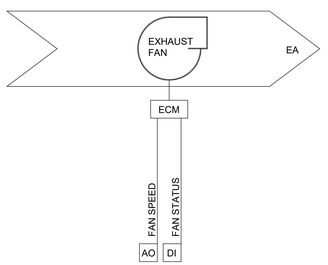


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY WHEN THE BUILDING IS OCCUPIED.

4 EF-4 CONTROLS



SEQUENCE OF OPERATION

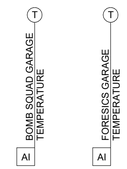
A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY WHEN THE BUILDING IS OCCUPIED.

5 EF-5 CONTROLS

SEQUENCE OF OPERATION

THE TEMPERATURE SENSORS SHALL MONITOR VEHICLE BAY TEMPERATURE. IF THE TEMPERATURE DROPS BELOW 50°F (ADJ.) FOR MORE THAN 10 MINUTES, SEND AN ALARM TO THE CONSOLE.



6 VEHICLE BAY TEMPERATURE SENSORS

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Phone: (937) 223-3821 – Fax: (937) 223-3849

PROJECT # 24021

11/14/2025 9:15:26 AM

Building:	City of Dayton - Helena St. Police Station
System Tag/Name:	RTU-24-1
Operating Condition Description:	TAT/7365
Units (select from pull-down list)	IP

Inputs for System	**Name**	**Units**	vlc diversity **System**	**Diversity**	vl diversity **System**
Floor area served by system	As	sf	9,599		
Population of area served by system	*Ps*	P	92	*D* 100%	92
Design primary supply fan airflow rate	Vpsd	cfm	9,555	100%	9,555
OA rec'd pr unit area for system (Weighted average)	Ras	cfm/sf	0.06		
OA req'd per person for system area (Weighted average)	Rps	cfm/p	6.0		
Percent increase in Vbz over minimum required			0%		

Inputs for Potentially Critical zones

Potentially Critical Zones

Zone Name			VESTIBULE	CORRIDOR	RECEPTION	TOILET	OFFICE	OFFICE	OFFICE	MULTI / TRAINING	SUPPLY/ STOR.	CONFERENCE ROOM	SECURE CORRIDOR	TACTICAL GEAR STORAGE	IT / ELEC.	STORAGE	ROLL CALL	PERSONAL GEAR	PERSONAL GEAR CHANGING ROOM	REPORT/ MAIL ROOM	SERGEANT	SERGEANT MEETING ROOM	SERGEANT LOCKER	MOTHER'S	TOILET	BREAK	JAN.	FORENSICS WORK AREA	OFFICE	LOCKERS/CHANGING	FORENSICS/ EVIDENCE	UNISEX TOILET
Zone Tag			100	101	102	103	104	105	106	107	107B	108	109	109A	110	111	112	113	114	115	116	116A	116B	117	118	119	120	121	122	123	124	125
Occupancy Category			Corridors	Corridors	Reception areas	Restroom	Office space	Office space	Office space	Multipurpose assembly	Occupiable storage rooms for dry materials	Conference/meeting	Corridors	Occupiable storage rooms for dry materials	IT Closet	Occupiable storage rooms for dry materials	Classrooms (age 9 plus)	Occupiable storage rooms for dry materials	Occupiable storage rooms for dry materials	Office space	Office space	Conference/meeting	Occupiable storage rooms for dry materials	Office space	Restroom	Break rooms (Office)	Janitor	Office space	Office space	Occupiable storage rooms for dry materials	Office space	Restroom
		Select from pull-down list:																														
Floor Area of zone	*Az*	sf	180	212	128	66	126	126	126	638	62	266	1,082	140	78	110	550	1,332	778	186	964	103	186	82	69	186	27	702	102	295	548	110
Design population of zone	*Pz*	P	(default value listed; may be overridden)																													
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm	150	150	130	0	150	150	150	650	50	300	750	100	300	75	700	1,400	800	175	900	100	200	75	0	250	0	700	100	200	750	100
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?		Select from pull-down list or leave blank if N/A:																														
Power of local metric air that is representative of system RA	*Er*																															
Inputs for Operating Condition Analyzed																																
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed		Select from pull-down list:		CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB
Zone air distribution effectiveness at conditioned analyzed	*Ez*			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Primary air fraction of supply air at conditioned analyzed	*Ep*																															

Results			
System Ventilation Efficiency	*Ev*		**0.75**
Outdoor air intake required for system	*Vot*	cfm	**1539** ← ASHRAE 62.1 REQUIRED VENTILATION AIRFLOW
Outdoor air per unit floor area	*Vot*/*As*	cfm/sf	**0.16**
Outdoor air per person served by system (including diversity)	*Vot*/*Ps*	cfm/p	**16.7**
Outdoor air as a % of design primary supply air	*Ypd*	%	**16%**

Detailed Calculations

Initial Calculations for the System as a whole

System primary supply air flow at conditioned analyzed	*Vps*	cfm	= Vpsd Ds	=	9555	
Uncorrected OA intake flow req'd for system	*Vou*	cfm	= *Rps Ps* + Ras As	=	1157	
Uncorrected OA req'd as a fraction of primary SA	*Xs*		= *Vou* / *Vps*	=	0.12	

Initial Calculations for individual zones

Area outdoor air rate	Ra	cfm/sf			0.06	0.06	0.06	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.06	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.12	0.00	0.06	0.06	0.06	0.06	0.00
People outdoor air rate	Rp	cfm/p			0.00	0.00	5.00	0.00	5.00	5.00	5.00	5.00	5.00	0.00	5.00	5.00	0.00	5.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.00	5.00	0.00	5.00	5.00	5.00	5.00	0.00
Total supply air to zone (at condition being analyzed)	*Vdz*	cfm	Vdzd Ds		150	150	130	0	150	150	150	650	50	300	750	100	300	75	700	1400	800	175	900	100	200	75	0	250	0	700	100	200	750	100
Primary airflow to zone (at condition being analyzed)	*Vpz*	cfm	= *Vdz Ep*	=	150	150	130	0	150	150	150	650	50	300	750	100	300	75	700	1400	800	175	900	100	200	75	0	250	0	700	100	200	750	100
Breathing zone outdoor airflow	*Vbz*	cfm	= *Rp Pz* + *Ra Az*	=	11	13	13	0	11	11	11	163	4	78	65	10	0	8	259	95	54	16	82	32	13	5	0	69	0	60	9	21	47	0
Zone outdoor airflow	*Voz*	cfm	= *Vbz* / *Ez*	=	11	13	13	0	11	11	11	163	4	78	65	10	0	8	259	95	54	16	82	32	13	5	0	69	0	60	9	21	47	0
Fraction of zone supply not directly recirc. from zone	*Fa*		= *Ep* + (1-*Ep*) *Er*	=	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone supply from fully mixed primary air	*Fb*		= *Ep*	=	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone OA not directly recirc. from zone	*Fc*		= 1-(1-*Ed*)(1-*Er*)	=	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
OA fraction required in the supply air to the zone	*Zd*		= *Voz* / *Vdz*	=	0.07	0.08	0.10	0.00	0.07	0.07	0.07	0.25	0.08	0.26	0.09	0.10	0.00	0.10	0.37	0.07	0.07	0.09	0.09	0.32	0.07	0.07	0.00	0.28	0.00	0.09	0.09	0.10	0.06	0.00
OA fraction required in the primary air to the zone	*Zpz*		= *Voz* / *Vpz*	=	0.07	0.08	0.10	0.00	0.07	0.07	0.07	0.25	0.08	0.26	0.09	0.10	0.00	0.10	0.37	0.07	0.07	0.09	0.09	0.32	0.07	0.07	0.00	0.28	0.00	0.09	0.09	0.10	0.06	0.00
System Ventilation Efficiency																																
Zone Ventilation Efficiency (App A Method)	*Evz*		= (*Fa*+*Fb*)*Xs*-*Fc*/*Zd*)/*Fa*	=	1.05	1.04	1.02	1.12	1.05	1.05	1.05	0.87	1.04	0.86	1.03	1.02	1.12	1.02	0.75	1.05	1.05	1.03	1.03	0.80	1.05	1.05	1.12	0.85	1.12	1.04	1.03	1.02	1.06	1.12
System Ventilation Efficiency (App A Method)	*Ev*		= min (*Evz*)	=	**0.75**																											
System Ventilation Efficiency (Table 6.3 Method)	*Ev*		= Value from Table 6.3	=	0.78																											
Minimum outdoor air intake airflow																																
Outdoor Air Intake Flow required to System	*Vot*	cfm	= *Vou* / *Ev*	=	**1539**																											
OA intake req'd as a fraction of primary SA	*Y*		= *Vot* / *Vps*	=	**0.16**																											
Outdoor Air Intake Flow required to System (Table 6.3 Method)	*Vot*	cfm	= *Vou* / *Ev*	=	1482	**57.04**																										
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	*Y*		= *Vot* / *Vps*	=	0.16	**0.04**																										
OA Temp at which Min OA provides all cooling																																
OAT below which OA Intake flow is @ minimum		Deg F	= ((Tp-dTsf)-(1-*Y*)*(Tr+dTrf))/*Y*	=	-34																											

VENTILATION NOTES:

OMC REQUIRED VENTILATION: 1,539 CFM
EXHAUST AIRFLOW: 1,450 CFM

RTU-24-1 OUTDOOR AIR FLOW RATE: 1,550 CFM

VENTILATION GENERAL NOTES

1. PER OMC 403.2 EXCEPTION #2, CALCULATIONS ARE BASED ON ASHRAE 62.1 - 2019. THE TABLES ON THIS SHEET ARE THE ASHRAE 62.1 VENTILATION RATE PROCEDURE CALCULATIONS. THIS SPREAD SHEET IS PUBLISHED BY ASHRAE.
2. SPREAD SHEETS CALCULATE THE CRITICAL ZONE, UNCORRECTED OUTDOOR AIR FLOW, SYSTEM TOTAL VENTILATION EFFICIENCY, AND A FINAL OUTDOOR AIR INTAKE REQUIRED (*Vot*).
3. CALCULATION SUMMARY

RTU-24-1:

REQUIRED OUTDOOR AIR:	1,539 CFM
EXHAUST AIRFLOW:	1,450 CFM
RTU-24-1 OUTDOOR AIR FLOW RATE:	**1,550 CFM**

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STATE OF OHIO
JEFFREY D. ZELINSKI 63822
REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/2025	FOR CONSTRUCTION

DATE	11/17/2025
JOB NO.	4209.00
DRAWN	DJZ
CHECKED	JDZ

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TITLE
VENTILATION

SHEET NO.
H5.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849

PROJECT # 24021

11/14/2025 9:15:27 AM

ELECTRICAL SPECIFICATIONS

AA. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH.

AB. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED.

AC. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.

AD. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE "RK1" FUSES.

AE. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH. CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.

AF. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS.FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.

AG. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.

AH. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.

AI. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

GENERAL NOTES

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.

B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.

C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.

D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.

E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.

F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.

G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.

I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.

J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.

K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

ELECTRICAL SPECIFICATIONS

A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.

B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR A.B.B.

C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.

D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.

E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.

F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH/ADJACENT TO TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.

G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.

H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.

I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE.

J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR FINAL CONNECTION TO INDOOR LIGHT FIXTURES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.

K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.

L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.

M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.

N. ALL EMPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE CABILING USES INCLUDING VOICE/DATA, SECURITY, AV, MONITORING OR ANY OTHER LOW VOLTAGE SYSTEM SHALL HAVE NYLON BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.

O. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.

P. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH BRUSHED STAINLESS STEEL COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.

Q. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.

R. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.

S. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.

T. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.

U. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.

V. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.

W. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.

X. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.

Y. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.

Z. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULLBOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.

ELECTRICAL LEGEND

- DISCONNECT SWITCH
- MOTOR STARTER OR VFD.
- COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
- ELECTRIC MOTOR.
- (EH) UNIT HEATER.
- (FC) FAN COIL UNIT.
- CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
- CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
- POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
- (T) LINE VOLTAGE THERMOSTAT.
- NEW DATA OUTLET. SEE SYSTEMS PLAN
- SYSTEMS FURINATURE DATA OUTLET. SEE SYSTEMS PLAN
- TELEPHONE/DATA FLOOR OUTLET. REFER TO NOTE ON PLAN.
- AP WIRELESS WIFI ACCESS POINT; SEE SYSTEMS PLAN
- F, C FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.), 'C' WHEN SHOWN INDICATES CEILING MOUNTED.
- L, C FIRE ALARM SIGNALING LIGHT (80" A.F.F.), 'C' WHEN SHOWN INDICATES CEILING MOUNTED.
- F FIRE ALARM SENDING STATION (46" M.H.).
- S CEILING MOUNTED SMOKE DETECTOR.
- H CEILING MOUNTED HEAT DETECTOR.
- S, S/R DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
- C ELECTRIC RELEASE DOOR CLOSER.
- D ELECTRO-MAGNETIC DOOR HOLDER.
- R FIRE ALARM CONTROL OR SUPERVISORY INPUT RELAY AS NOTED. CONTROL RELAY TO HAVE FORM 'C' CONTACT RATED MIN. 5 AMPS AT 120VAC.
- RT DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR.
- NAC FIRE ALARM NOTIFICATION APPLIANCE POWER EXTENDER PANEL. PROVIDE 20A-120V CIRCUIT FROM LOCAL EMERGENCY PANEL INDICATED CONNECT TO MAIN FIRE ALARM PANEL FOR NOTIFICATION SIGNALING.
- T1 TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
- T2 TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T2
- CR DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H. ROUGH-IN. REFER TO DETAIL, SHEET E0.3.
- C, A CCTV CAMERA. ROUGH-IN. SEE SYSTEMS PLAN
- ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
- P PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
- PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).
- CEILING FAN FURNISHED BY H.C., INSTALLED AND WIRED BY E.C.

ELECTRICAL LEGEND

- ELECTRICAL CONNECTION REQUIRED.
- EXIT LIGHTING FIXTURE WITH EM LAMP HEADS. ARROWS AS INDICATED.
- H1 B1 a b LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURES TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
- H1 B1 LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP.
- W WIRE RUN IN SURFACE RACEWAY.
- NL WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
- A-1&2 EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
- WIRE & CONDUIT IN WALL OR ABOVE CEILING
- WIRE & CONDUIT UNDERGROUND
- (J) JUNCTION BOX.
- E EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
- 20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" M.H.).
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
- U 20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.).USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
- SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN
- D 20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" M.H.) TWO-GANG ASSEMBLY. D = DOUBLE DUPLEX.
- 46", D 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED D = DOUBLE DUPLEX.
- GF 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
- T 20A-125V TAMPERPROOF RECEPTACLE, NEMA 5-20R, (18" M.H.).
- WP/GF 20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
- 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN FLUSH FLOOR BOX. REFER TO NOTE ON PLANS
- 20 20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
- 30 30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
- 50 50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.)
- SINGLE POLE WALL SWITCH (46" M.H.)
- 2 TWO POLE WALL SWITCH (46" M.H.).
- 3 THREE-WAY WALL SWITCH (46" M.H.).
- 4 FOUR-WAY WALL SWITCH (46" M.H.).
- OS LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
- OS2 LIGHTING OCCUPANCY SENSOR 2 CIRCUIT WALL SWITCH (46" M.H.).
- D LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- 3D LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
- VS LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.).
- DV 0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED
- (OS) OCCUPANCY SENSOR, CEILING MOUNTED.
- (OR) OCCUPANCY SENSOR CONTROL RELAY.

GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- 3 NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- 2 DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- H-1 EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- H-1 EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- 123 ROOM NUMBER.
- B / E2 DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET E2.
- A / E1 SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
- CONNECTION, NEW TO EXISTING.
- FD1 UP TO SYMBOL. UP TO "FD1", SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS
- 2 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS
- 3 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

ELECTRICAL INDEX OF DRAWINGS

SHEET	DRAWING TITLE
E0.1	LEGEND
E0.2	LEGEND AND SCHEDULE
E0.3	DETAILS
E0.4	PANEL SCHEDULES
E0.5	MSD&C SCHEDULE
E0.6	SITE PLAN
E1.1	DEMOLITION PLANS
E2.0	BASEMENT LIGHTING AND POWER PLAN
E2.1	FIRST FLOOR LIGHTING PLAN
E3.1	FIRST FLOOR POWER PLAN
E4.1	FIRST FLOOR SYSTEM PLAN

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STATE OF OHIO
JEFFREY D. ZELINSKI 63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
JOB NO.	4209.00
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TITLE
LEGEND

SHEET NO.
E0.1

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204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849

11/18/2025 1:46:46 PM

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE TYPE: LED	LOW VOLTAGE	WATTS/ FIXTURE	LUMENS/ COLOR TEMP	FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR: WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTES	MOUNTED	SIZE: WIDTH	LENGTH	DEPTH	DIAMETER	SEE NOTES
															S - SURFACE. R - RECESSED. SM - STEM MTD. WM - WALL MTD. C - CHAIN MTD. UC - UNDER CAB. CS - CLG. SURF.					
B1	•		30	3600 LUMENS / 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•						R(GRID)	24	24	2		
B1E	•		30	3600 LUMENS / 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•						R(GRID)	24	24	2		12
C1	•		40	5000 LUMENS / 4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•						WM/S/SM	3	48	3		12
F1	•		14	1100 LUMENS	120	LITHONIA# WF6-LED-304050K-90CRI-MW	GREEN CREATIVE	FLAT WHITE LENS	•						R			1.5	6	1, 4
F2	•		25	2000 LUMENS / 4000K	120	LITHONIA#LDN6-AL02-40K-LO6-NR-TRN-MVO LT-UGZ1	PRESCOLITE	REGRESSED WHITE BAFFLE	•						R			4	6	8
F4	•		10	1000 LUMENS / 4000K	120	LITHONIA # WF6-ADJ-LED-30K40K	WAC	ADJUSTABLE LENS	•						R			3	6	
UC1	•		10	500 LUMENS / 3000K	120	LITHONIA# UPLD-14IN-30K-90CRI-SWR-WH	CONTECH, LAMAR	MATTE WHITE LENS	•					2	UC (OR SHELF)		14			2
UC2	•		13	740 LUMENS / 3000K	120	LITHONIA# UPLD-22IN-30K-90CRI-SWR-WH	CONTECH, LAMAR	MATTE WHITE LENS	•					2	UC (OR SHELF)		22			2
K1	•		20	7500 LUMENS / 4000K	120	LITHONIA# WDGE3 LED - P1 - 40K - 80CRI - RFT - MVOLT - SRM - DDBXD	HUBBLE, GARDCO	MATTE WHITE LENS				•			WM	18	9	8		
X1	•		5W		120	LITHONIA # LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE W/EM HEADS	•						WM OR CLG SURFACE ABOVE DOOR					
REM	•				120	LITHONIA # ERE-GY-T-RD-WP	COMPASS, CHLORIDE	LED REMOTE LAMP HEADS - 2 HEAD - ROUND					•		WM OR CLG SURFACE TO CANOPY				4	

NOTE...

1. SWITCHABLE COLOR TEMPERATURE.
2. INTEGRAL ROCKER SWITCH (HARD WIRED CONNECTION), WIRED AHEAD OF LOCAL SWITCHING.
3. REFER TO POLE BASE DETAIL.
4. PROVIDE SURFACE MOUNTED WEATHER PROOF BACK BOX FOR SURFACE MOUNTING TO UNDERSIDE OF CANOPY, WHERE EXTERIOR MOUNTED.
5. FIXTURES SHALL HAVE 7-PIN CONTROL RECEPTACLE WITH SHORTING CAP, REFER TO SITE PLAN FOR POLE FIXTURES WITH CONVENIENCE RECEPTACLE AT BASE.
6. PROVIDE CONCRETE BASE, FLUSH WITH GRADE, ADJACENT TO CONCRETE WALK AROUND FLAG POLE. PROVIDE FINAL AIMING AT FLAG.
7. COORDINATE SUSPENSION HEIGHT AND LOCATION WITH ARCHITECT.
8. ADJUSTABLE LUMEN OUTPUT 1000-2000 LUMEN.
9. INCANDESCENT LAMP HOUSING WITH WHITE REFLECTOR ONLY. LAMP BY OTHERS.
10. 'C' POST-SCRIPT ON FIXTURE TAG INDICATES POLE TO HAVE PROVISIONS FOR DUPLEX RECEPTACLE AT BASE OF POLE AND PROVISIONS FOR SURVEILLANCE CAMERA AT 14' MOUNTING HEIGHT.
11. CUSTOM LENGTH PER FIELD CONDITIONS, COORDINATE WITH ARCHITECTURAL.
12. FIXTURE WITH 'E' POSTSCRIPT SHALL HAVE INTEGRAL BATTERY BACKUP.

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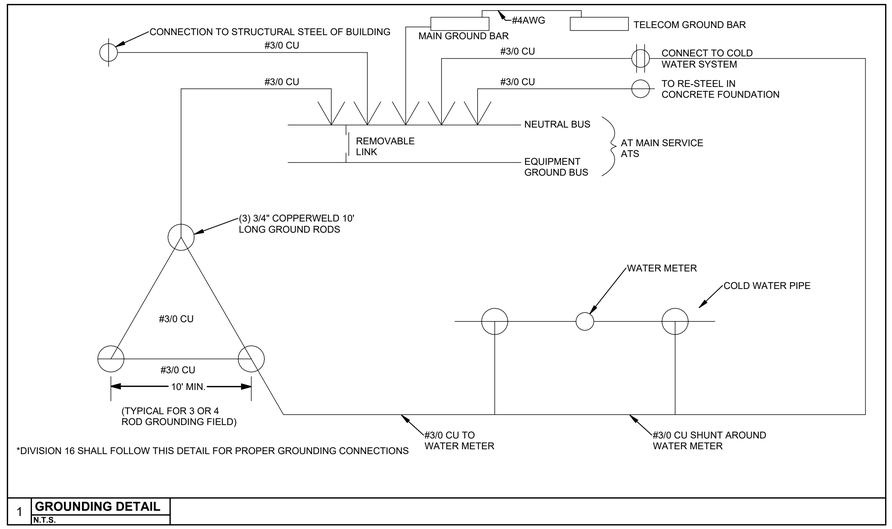
TITLE
LEGEND AND SCHEDULE

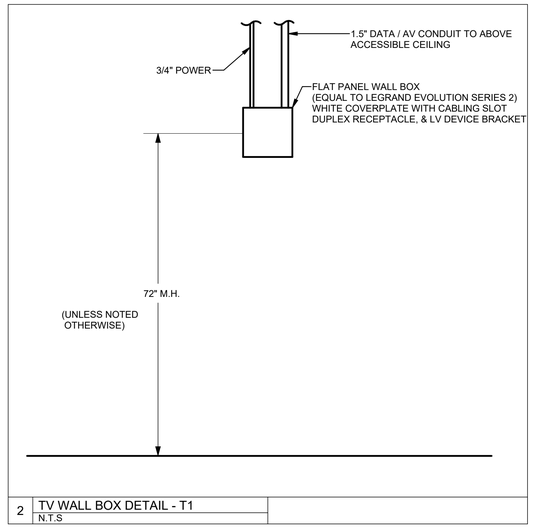
SHEET NO.
E0.2

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 · Fax: (937) 223-3849

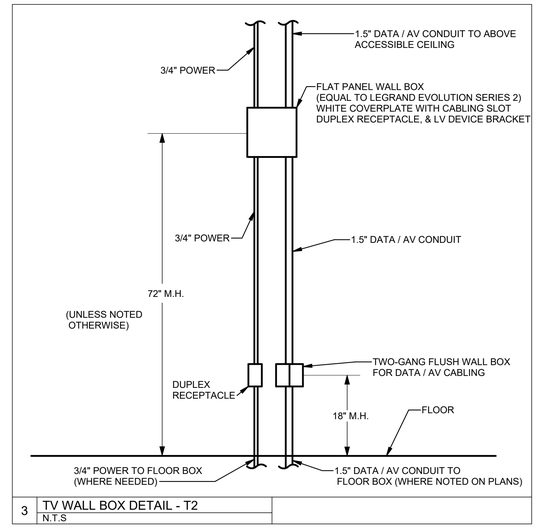
11/19/2025 1:48:45 PM



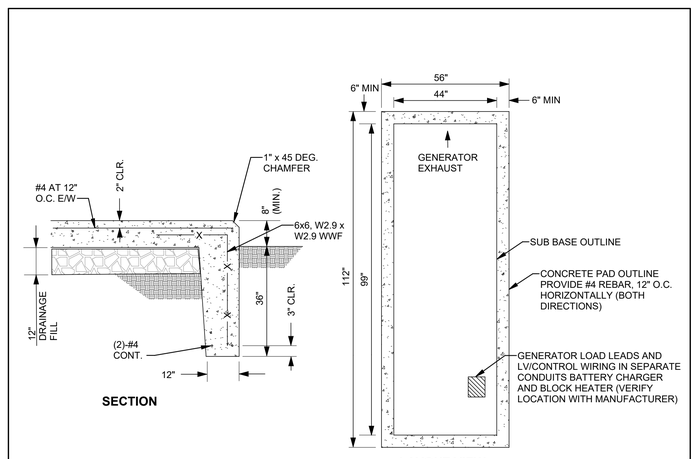
1 **GROUNDING DETAIL**
N.T.S.



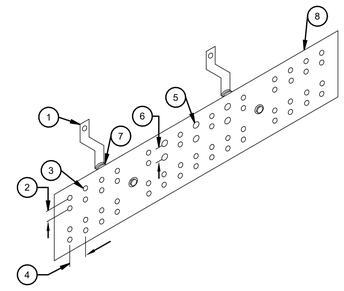
2 TV WALL BOX DETAIL - T1
N.T.S



3 TV WALL BOX DETAIL - T2
N.T.S



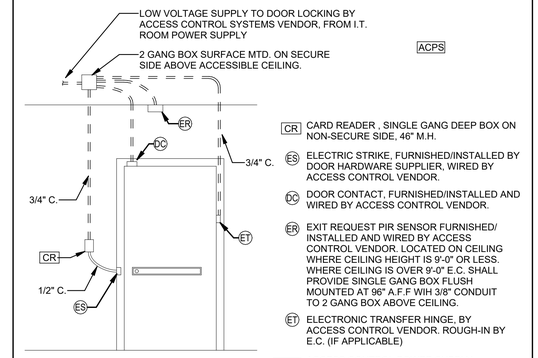
9 **GENERATOR PAD DETAIL**
N.T.S.



1. WALL MOUNTING BRACKET(S).
2. 5/8" (TYPICAL).
3. 5/16" DIA. HOLE (TYPICAL).
4. 1-1/8" (TYPICAL).
5. 7/16" DIA. HOLE (TYPICAL).
6. 1" (TYPICAL).
7. STANDOFF INSULATOR(S).
8. 1/4"x4"x16"L COPPER GROUND BAR.

NOTE: PROVIDE 1/4" X 2" X 12" L COPPER GROUND BAR FOR TELECOM

4 **GROUND BAR BRACKET**
N.T.S.



CR CARD READER , SINGLE GANG DEEP BOX ON NON-SECURE SIDE, 46" M.H.

ES ELECTRIC STRIKE, FURNISHED/INSTALLED BY DOOR HARDWARE SUPPLIER, WIRED BY ACCESS CONTROL VENDOR.

DC DOOR CONTACT, FURNISHED/INSTALLED AND WIRED BY ACCESS CONTROL VENDOR.

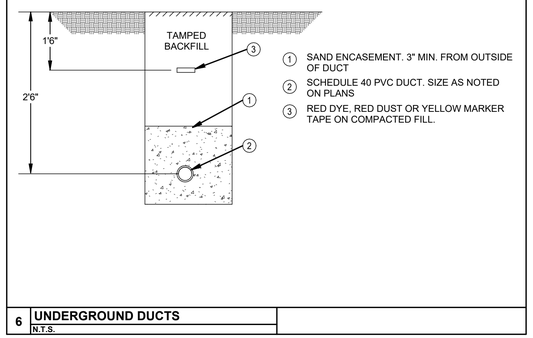
ER EXIT REQUEST PIR SENSOR FURNISHED/ INSTALLED AND WIRED BY ACCESS CONTROL VENDOR. LOCATED ON CEILING WHERE CEILING HEIGHT IS 9'-0" OR LESS. WHERE CEILING IS OVER 9'-0" E.C. SHALL PROVIDE SINGLE GANG BOX FLUSH MOUNTED AT 96" A.F.F WIH 3/8" CONDUIT TO 2 GANG BOX ABOVE CEILING.

ET ELECTRONIC TRANSFER HINGE, BY ACCESS CONTROL VENDOR. ROUGH-IN BY E.C. (IF APPLICABLE)

ACPS ACCESS CONTROL POWER SUPPLY, LOCATED IN I.T. ROOM E.C. TO PROVIDE 120V CIRCUIT TO POWER SUPPLY.

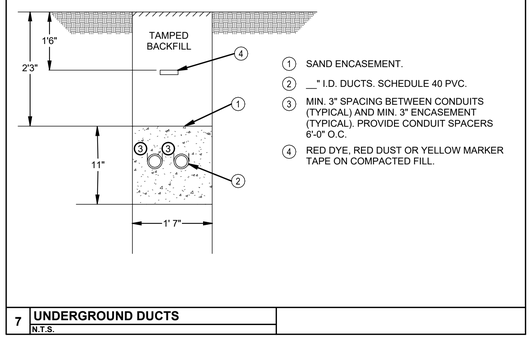
E.C. SHALL COORDINATE DOOR HARDWARE REQUIREMENTS FOR APPLICABLE ROUGH-INS.
E.C. SHALL PROVIDE ROUGH-IN BOXES AND CONDUITS, DEVICE AND WIRING BY SYSTEM VENDOR

5 **TYPICAL CARD READER INSTALLATION**
N.T.S.



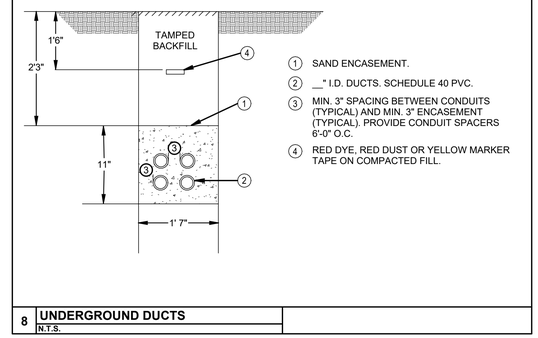
1. SAND ENCASEMENT. 3" MIN. FROM OUTSIDE OF DUCT
2. SCHEDULE 40 PVC DUCT. SIZE AS NOTED ON PLANS
3. RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

6 **UNDERGROUND DUCTS**
N.T.S.



1. SAND ENCASEMENT.
2. __" I.D. DUCTS. SCHEDULE 40 PVC.
3. MIN. 3" SPACING BETWEEN CONDUITS (TYPICAL) AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE CONDUIT SPACERS 6'-0" O.C.
4. RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

7 **UNDERGROUND DUCTS**
N.T.S.



1. SAND ENCASEMENT.
2. __" I.D. DUCTS. SCHEDULE 40 PVC.
3. MIN. 3" SPACING BETWEEN CONDUITS (TYPICAL) AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE CONDUIT SPACERS 6'-0" O.C.
4. RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

8 **UNDERGROUND DUCTS**
N.T.S.

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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
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DATE	11/17/25
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TITLE
DETAILS

SHEET NO.
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NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 ~ Fax: (937) 223-3849

11/19/2025 1:46:47 PM

Switchboard: MDP

Location: BASEMENT
Supply From:
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating: 42K AIC
Mains Type: M.B.
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Wire Size	Feed	Cond. Size
1	R1	3	100 A	100 A	5200 VA	3-#2, 1-#2, 1-#8	CU	1.25"
2	R2	3	200 A	200 A	47775 VA	3-#4/0, 1-#4/0, 1-#6	CU	2"
3	R3	3	200 A	200 A	24880 VA	3-#4/0, 1-#4/0, 1-#6	CU	2"
4	R4	3	200 A	200 A	49032 VA	3-#4/0, 1-#4/0, 1-#6	CU	2"
5								1.25"
6	R5	3	200 A	200 A	25929 VA	3-#4/0, 1-#4/0, 1-#6	CU	2"
7	RTU-24-1_???	3	225 A	225 A	50000 VA	3-#250, 1-#4	CU	2"
8	SPD	3	60 A	60 A	0 VA	--	NA	
9	WH-1	3	100 A	60 A	14000 VA	3-#6, 1-#10	CU	1.75"
10	STAND-BY ATS	3	200 A	150 A	41976 VA	3-#2/0, 1-#2/0, 1-#6	CU	2"
11								
12								
			Total Conn. Load:		254215 VA			
			Total Amps:		706 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	7588 VA	125.00%	9486 VA		
Motor	28400 VA	80.00%	22720 VA	**Total Conn. Load:**	254215 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	207901 VA
Power	171449 VA	80.00%	137159 VA	**Total Conn. Current:**	706 A
Receptacles	41812 VA	80.00%	33450 VA	**Total Est. Demand...**	577 A

Notes:

Branch Panel: R1

LOCATION: BASEMENT
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Surface
ENCLOSURE: Type 1
MCB RATING: NA

A.I.C RATING 22K AIC
MAINS TYPE: M.L.O
MAINS RATING: 100 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	2
3	Recirc Pump	20 A	1			1000 VA	1000 VA		1	20 A	Digital Mix	4
5	Ext Ltgs	20 A	1				480 VA	0 VA	1	20 A	Spare	6
7	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	8
9	Rec Basement	20 A	1			720 VA	1000 VA		1	20 A	Power	10
11	Power	20 A	1				1000 VA					12
13												14
15												16
17												18
19												20
21	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	22
23	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	28
29	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	30
		Total Load:			0 VA	3720 VA	1480 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Power	4000 VA	80.00%	3200 VA		
Receptacles	720 VA	80.00%	576 VA	**Total Conn. Load:**	5200 VA
				Total Est. Demand:	4376 VA
				Total Conn. Current:	14 A
				Total Est. Demand...	12 A

Branch Panel: R2

LOCATION: SECURE CORRIDO...
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Flush
ENCLOSURE: Type 1
MCB RATING: NA

A.I.C RATING 22K AIC
MAINS TYPE: M.L.O
MAINS RATING: 225 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	2
3	Lighting	20 A	1			1015 VA	180 VA		1	20 A	BREAK 119	4
5	Lockers 113	20 A	1				1080 VA	0 VA	1	20 A	Spare	6
7	Lockers	20 A	1		600 VA	720 VA			1	20 A	Lockers 113	8
9	Lockers	20 A	1			600 VA	600 VA		1	20 A	Lockers	10
11	Lockers	20 A	1				600 VA	600 VA	1	20 A	Lockers	12
13	Lockers	20 A	1		600 VA	600 VA			1	20 A	Lockers	14
15	Lockers	20 A	1			600 VA	720 VA		1	20 A	Mail 115	16
17	Mail 115	20 A	1				720 VA	540 VA	1	20 A	Toilet 117/118	18
19	Spare	20 A	1		0 VA	360 VA			1	20 A	Break 119	20
21	Copier	20 A	1			180 VA	480 VA		1	20 A	Rec 116	22
23	Rec 116	20 A	1				480 VA	480 VA	1	20 A	Rec 116	24
25	Rec 116	20 A	1		0 VA	0 VA			1	20 A	Rec 116	26
27	Rec 116	20 A	1			0 VA	0 VA		1	20 A	Gear 116B	28
29	ATU-7	30 A	3				2833 VA	720 VA	1	20 A	Sergeant 116A	30
31	--	--	--		2833 VA	1833 VA			3	20 A	ATU-6, 8	32
33	--	--	--			2833 VA	1833 VA		--	--	--	34
35	ATU-9	30 A	3				2600 VA	1833 VA	--	--	--	36
37	--	--	--		2600 VA	1167 VA			3	20 A	ATU-14	38
39	--	--	--			2600 VA	1167 VA		--	--	--	40
41	ATU-10	40 A	3				3333 VA	1167 VA	--	--	--	42
43	--	--	--		3333 VA	0 VA			3	20 A	Spare	44
45	--	--	--			3333 VA	0 VA		--	--	--	46
47	Spare	20 A	1				0 VA	0 VA	--	--	--	48
49	Spare	20 A	1		0 VA	0 VA			3	30 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA		--	--	--	52
53	Spare	20 A	1				0 VA	0 VA	--	--	--	54
		Total Load:			14647 VA	16142 VA	16987 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1015 VA	125.00%	1269 VA		
Power	35300 VA	80.00%	28240 VA	**Total Conn. Load:**	47775 VA
Receptacles	11460 VA	80.00%	9168 VA	**Total Est. Demand:**	38677 VA
				Total Conn. Current:	133 A
				Total Est. Demand...	107 A

Branch Panel: R3

LOCATION: FITNESS 127
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Flush
ENCLOSURE: Type 1
MCB RATING: NA

A.I.C RATING 10K AIC
MAINS TYPE: M.L.O
MAINS RATING: 225 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Spare	20 A	1		0 VA	360 VA			1	20 A	Fitness 127	2
3	Cord Drop	20 A	1			180 VA	360 VA		1	20 A	Fitness 127	4
5	Fitness 127	20 A	1				180 VA	180 VA	1	20 A	Fitness 127	6
7	Fitness 127	20 A	1		180 VA	180 VA			1	20 A	Fitness 127	8
9	Fitness 127	20 A	1			180 VA	180 VA		1	20 A	Fitness 127	10
11	Fitness 127	20 A	1				180 VA	180 VA	1	20 A	Fitness 127	12
13	Fitness 127	20 A	1		180 VA	180 VA			1	20 A	Fitness 127	14
15	Toilet 127C	20 A	1			180 VA	360 VA		1	20 A	TV 127	16
17	Spare	20 A	1				0 VA	540 VA	1	20 A	TV 127	18
19	Bomb Rm 128	20 A	1		540 VA	720 VA			1	20 A	Bomb Rm 128	20
21	Bay Fan	20 A	1			1000 VA	4333 VA		3	70 A	Ex. RTU	22
23	Ice Mkr	20 A	1	GF			180 VA	4333 VA	--	--	--	24
25	Spare	20 A	1		0 VA	4333 VA			--	--	--	26
27	ERV-1	20 A	3			1267 VA	1500 VA		GF	1	20 A	EUH-1	28
29	--	--	--				1267 VA	180 VA	1	20 A	Bomb Rm 128	30
31	--	--	--		1267 VA	180 VA			1	20 A	BottleFiller	32
33	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	34
35	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	42
		Total Load:			8120 VA	9540 VA	7220 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Motor	1000 VA	80.00%	800 VA		
Power	16800 VA	80.00%	13440 VA	**Total Conn. Load:**	23800 VA
Receptacles	4500 VA	80.00%	3600 VA	**Total Est. Demand:**	19340 VA
				Total Conn. Current:	66 A
				Total Est. Demand...	54 A

Branch Panel: R4

LOCATION: IT/ELEC. 110
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Surface
ENCLOSURE: Type 1
MCB RATING: NA

A.I.C RATING 10K AIC
MAINS TYPE: M.L.O/F.T.L
MAINS RATING: 225 A

TWO 42 CIRCUIT PANELS

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Receptacles	20 A	1		720 VA				1	20 A	Training 107	2
3							1260 VA		1	20 A	Training 107	4
5	Spare	20 A	1				0 VA	720 VA	1	20 A	Training 107	6
7	Conf 108	20 A	1		540 VA	1080 VA			1	20 A	Conference...	8
9	Roll Call 112	20 A	1			900 VA	720 VA		1	20 A	Roll Call 112	10
11	Roll Call 112	20 A	1				540 VA	360 VA	1	20 A	Roll Call 112	12
13	Roll Call 112	20 A	1		720 VA	360 VA			1	20 A	Roll Call 112	14
15	Training 107	20 A	1			360 VA	540 VA		1	20 A	Training 107	16
17	Training 107	20 A	1				540 VA	360 VA	1	20 A	Training 107	18
19	Spare	20 A	1		0 VA	360 VA			1	20 A	Confrence Rm	20
21	Spare	20 A	1			0 VA	360 VA		1	20 A	Confrence Rm	22
23	Spare	20 A	1				0 VA	180 VA	1	20 A	Copier	24
25	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	26
27	Washer	20 A	1			180 VA	540 VA		1	20 A	Office 106	28
29	Dryer	20 A	2				2496 VA	1500 VA	1	20 A	EUH-1	30
31	--	--	--		2496 VA	0 VA			1	20 A	Spare	32
33	EF-4	20 A	1				1600 VA	0 VA	1	20 A	Spare	34
35	EF-5	20 A	1					1600 VA	900 VA	1	20 A	Gear Rm 114	36
37	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	ATU-1	20 A	3		933 VA	333 VA			3	20 A	ATU-2	44
45	--	--	--				933 VA	333 VA	--	--	--	46
47	--	--	--					933 VA	333 VA	--	--	--	48
49	ATU-3	30 A	3		2500 VA	333 VA			3	20 A	ATU-4	50
51	--	--	--				2500 VA	333 VA	--	--	--	52
53	--	--	--					2500 VA	333 VA	--	--	--	54
55	ATU-5	30 A	3		2600 VA	1667 VA			3	20 A	ATU-12	56
57	--	--	--				2600 VA	1667 VA	--	--	--	58
59	--	--	--					2600 VA	1667 VA	--	--	--	60
61	ATU-11, 13	20 A	3		667 VA	0 VA			1	20 A	Spare	62
63	--	--	--				667 VA	0 VA	1	20 A	Spare	64
65	--	--	--					667 VA	0 VA	1	20 A	Spare	66
67	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	68
69	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	70
71	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	72
73	Spare	20 A	1		0 VA	0 VA			3	20 A	Spare	74
75	Spare	20 A	1			0 VA	0 VA		--	--	--	76
77	Spare	20 A	1				0 VA	0 VA	--	--	--	78
79	Spare	30 A	3		0 VA	0 VA			3	30 A	Spare	80
81	--	--	--			0 VA	0 VA		--	--	--	82
83	--	--	--				0 VA	0 VA	--	--	--	84
		Total Load:			15309 VA	15493 VA	18229 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Motor	3200 VA	80.00%	2560 VA		
Power	29620 VA	80.00%	23696 VA	**Total Conn. Load:**	45972 VA
Receptacles	11652 VA	80.00%	9322 VA	**Total Est. Demand:**	37078 VA
				Total Conn. Current:	128 A
				Total Est. Demand...	103 A

Branch Panel: R5

LOCATION: FORENSICS/...
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Flush
ENCLOSURE: Type 1
MCB RATING: NA

A.I.C RATING 22K AIC
MAINS TYPE: M.L.O
MAINS RATING: 225 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	2
3	Bay 126	20 A	1			1260 VA	0 VA		1	20 A	Bay 126	4
5	Bay 126	20 A	1				655 VA	720 VA	1	20 A	Bay 126	6
7	Bay 126 Fan	20 A	1		1000 VA	0 VA			1	20 A	Spare	8
9	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	10
11	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	12
13	Forensics 121	20 A	1		360 VA	720 VA			1	20 A	Forensics 121	14
15	Gear 123	20 A	1			600 VA	0 VA		1	20 A	Spare	16
17	Rec	20 A	1				720 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	20
21	EUH-1	20 A	1			1500 VA	0 VA		1	20 A	Spare	22
23	Spare	20 A	1				0 VA	1400 VA	3	20 A	ATU-16, 17	24
25	T1	20 A	1		360 VA	1400 VA			--	--	--	26
27							1400 VA		--	--	--	28
29	ATU-15	30 A	3					2333 VA	2833 VA	3	30 A	ATU-18	30
31	--	--	--		2333 VA	2833 VA			--	--	--	32
33	--	--	--			2333 VA	2833 VA		--	--	--	34
35	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1				0 VA	0 VA	1	20 A	Spare	42
		Total Load:			9007 VA	8758 VA	8211 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Motor	1000 VA	80.00%	800 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	25570 VA
Power	19790 VA	80.00%	15832 VA	**Total Est. Demand:**	20755 VA
Receptacles	3300 VA	80.00%	2640 VA	**Total Conn. Current:**	71 A
				Total Est. Demand...	58 A

Branch Panel: SB

LOCATION: FORENSICS WORK...
SUPPLY FROM: ATS
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Surface
ENCLOSURE: Type 1
MCB RATING: NA

A.I.C RATING 22K AIC
MAINS TYPE: M.L.O
MAINS RATING: 150 A

CKT	Description	Trip	Poles	Note	A	B	C	Note	Poles	Trip	Description	CKT
1	Lighting	20 A	1		1019 VA	1214 VA			1	20 A	Lighting	2
3	Lighting	20 A	1			1201 VA	1109 VA		1	20 A	Lighting	4
5	Lighting	20 A	1				1331 VA	339 VA	1	20 A	Ext Ltgs	6
7	Bay 126	20 A	1		1780 VA	280 VA			1	20 A	Lighting	8
9	Forensics 124	20 A	1			360 VA	100 VA		1	20 A	CO/NO	10
11	Forensics 124	20 A	1				1080 VA	360 VA	1	20 A	Forensics 124	12
13	Break 119	20 A	1		540 VA	360 VA			1	20 A	Forensics 124	14
15	Office 122/120	20 A	1			900 VA	540 VA		1	20 A	Forensics 121	16
17	Bomb Rm 128	20 A	1				1780 VA	180 VA	1	20 A	Rec	18
19	I.T. Room	20 A	1		720 VA	720 VA			1	20 A	I.T. Room	20
21	Rec IT/ELEC...	20 A	1			180 VA	1260 VA		1	20 A	Battey Charge	22
23	Rec 102/103	20 A	1				900 VA	1600 VA	1	20 A	Motor	24
25	GUH	20 A	1		1600 VA	1600 VA			1	20 A	EF-1	26
27	GUH	20 A	1			1600 VA	1600 VA		1	20 A	Motor	28
29	Fume Hood	20 A	1				1000 VA	4000 VA	3	60 A	Motor	30
31	Lighting	20 A	1		175 VA	4000 VA			--	--	--	32
33	Rec Basement	20 A	1			720 VA	4000 VA		--	--	--	34
35	Office 106/105	20 A	1				1440 VA	720 VA	1	20 A	Office 104/100	36
37	IT/ELEC. 110	20 A	1		1000 VA							38
39	Power	20 A	2			0 VA	0 VA		2	20 A	Power	40
41	--	--	--				0 VA	0 VA	--	--	--	42
		Total Load:			15004 VA	12375 VA	14633 VA					

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	6575 VA	125.00%	8219 VA		
Motor	23200 VA	80.00%	18560 VA	**Total Conn. Load:**	41976 VA
Power	2364 VA	80.00%	1891 VA	**Total Est. Demand:**	36539 VA
Receptacles	10180 VA	80.00%	8144 VA	**Total Conn. Current:**	117 A
				Total Est. Demand...	101 A

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JEFFREY D. ZELINSKI 63822
REGISTERED PROFESSIONAL ENGINEER
STATE OF OHIO

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

417 East Helena St. Dayton, Ohio 45404

ISSUE

NO.	DATE	DESCRIPTION
	11/17/25	FOR CONSTRUCTION

DATE	11/17/25
JOB NO.	4209.00
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CHECKED	JDZ

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TITLE
PANEL SCHEDULES

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NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 -- Fax: (937) 223-3849

11/19/2025 1:46:48 PM

MOTORS, STARTERS, DISCONNECTS & CONTROLS

MOTOR											STARTERS										DISCONNECT MEANS									CONTROL				FEEDER					
			CHARACTERISTICS							TYPE					LOCATION						TYPE					LOCATION													
MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH	480V-1PH	480V-3PH	LOCATION	NEMA SIZE	MANUAL	MAGNETIC	BUILT-IN MOTOR O/L	VFD	ECM*	NEAR MOTOR	MOTOR CONT. CNTR	EQUIP. CONT. PANEL	ROOM NUMBER	SEE NOTE	FURNISHED BY	DISC. SWITCH	MANUAL STARTER	RECEPTACLE	BREAKER	FUSIBLE	NEAR MOTOR	MOTOR. CONT. PANEL	EQUIP. CONT. PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	INTERLOCK W/ DAMPER BY E.C.	MANUAL AT STARTER	INTEGRAL W/ EQUIP.	BY H.C.	SEE NOTE	NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE
RTU-24-1		PACKAGED RTU-24-1	170 MCA / 225 MOCP		•				ON GRADE											HC	•				•	•				EC				•		3	3/0	4	2	2
RTU-24-1		PACKAGED RTU-24-1	43 MCA / 45 MOCP		•				ON GRADE											HC	•				•	•				EC				•		3	6	10	1	3
EX. RTU		EXISTING RTU	60 MCA/ 70 MOCP		•				FITNESS ROOF											EX	•									EX				•		3	4	8	1	1
ERV-1		RECOVERY VENTILATOR	8.4 MCA / 15 MOCP		•				BOMB SQUAD											HC										ES				•		3	6	10	1	
RTU 24-1		AIR TERMINAL UNIT 24-1	3.8 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-2		AIR TERMINAL UNIT 24-2	5.0 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-3		AIR TERMINAL UNIT 24-3	7.5 KW		•															HC	•									ES				•		3	10	10	.75	
RTU 24-4		AIR TERMINAL UNIT 24-4	3.0 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-5		AIR TERMINAL UNIT 24-5	5.0 KW		•															HC	•									ES				•		3	10	10	.75	
RTU 24-6		AIR TERMINAL UNIT 24-6	2.5 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-7		AIR TERMINAL UNIT 24-7	8.5 KW		•															HC	•									ES				•		3	10	10	.75	
RTU 24-8		AIR TERMINAL UNIT 24-8	3.0 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-9		AIR TERMINAL UNIT 24-9	7.8 KW		•															HC	•									ES				•		3	10	10	.75	
RTU 24-10		AIR TERMINAL UNIT 24-10	10.0 KW		•															HC	•									ES				•		3	8	10	.75	
RTU 24-11		AIR TERMINAL UNIT 24-11	3.0 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-12		AIR TERMINAL UNIT 24-12	5.0 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-13		AIR TERMINAL UNIT 24-13	1.5 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-14		AIR TERMINAL UNIT 24-14	3.5 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-15		AIR TERMINAL UNIT 24-15	7.0 KW		•															HC	•									ES				•		3	10	10	.75	
RTU 24-16		AIR TERMINAL UNIT 24-16	2.8 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-17		AIR TERMINAL UNIT 24-17	1.4 KW		•															HC	•									ES				•		3	12	12	.5	
RTU 24-18		AIR TERMINAL UNIT 24-18	8.5 KW		•															HC	•									ES				•		3	10	10	.75	
EF-1		EXH FAN 1	1/10 HP	•					BOMB SQUAD						•					HC	•									ES	•			•		3	12	12	.5	
EF-2		EXH FAN 2	1/10 HP	•					FORENSICS						•					HC	•									ES	•			•		3	12	12	.5	
EF-3		EXH FAN 3	1/10 HP	•					GENERAL						•					HC	•									ES	•			•		3	12	12	.5	
EF-4		EXH FAN 4	1/6 HP	•					GENERAL						•					HC	•									ES	•			•		3	12	12	.5	
EF-5		EXH FAN 5	1/10 HP	•					GENERAL						•					HC	•									ES	•			•		3	12	12	.5	
CF-1		CIRCULATION FAN	1/4HP	•					BOMBSQ AND FORENSIC						•					HC	•									ES	•					3	12	12	.5	
EUH-1		ELEC. UNIT HEATER	.75KW	•					MULTI											HC	•									ES			•			3	12	12	.5	
WH1		WATER HEATER	14 KW		•				BASMENT											PC	•				•					EC				•		3	10	10	.75	
FAN HOOD			1/4HP	•					FORENSICS					•						EC	•									ES				•		3	12	12	.5	

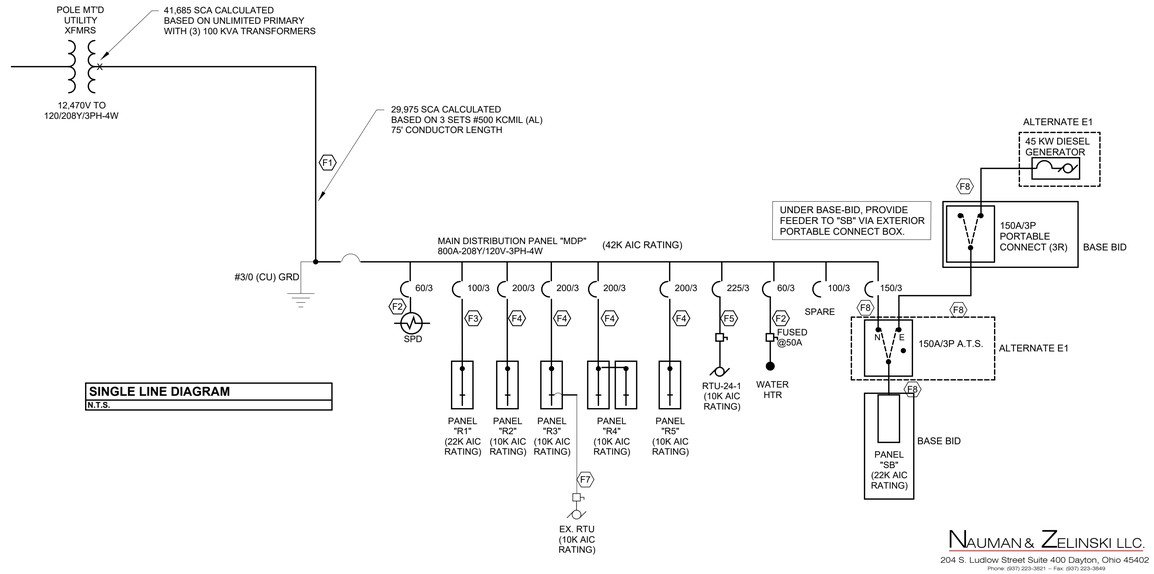
* REFER TO ECM CONTROL DIAGRAM(S) ON HVAC DRAWINGS, WHEN NOTED, FOR INTERLOCK WIRING AND AUX POWER REQUIREMENTS.

NOTES:

1. FIELD VERIFY EXISTING CONDUCTOR SIZES TO DETERMINE IF REUSE/EXTENSION TO NEW MDP IS FEASIBLE.
2. COOLING / AC COMPRESSORS ONLY CONNECTION POINT ON UNIT. (COORDINATE CONNECTIONS WITH H.C.).
3. FAN/HEATING / CONTROLS ONLY CONNECTION POINT ON UNIT. (COORDINATE CONNECTIONS WITH H.C.).

FEEDER SCHEDULE

F1	3 SETS OF 4-#400 KCMIL (AL.), AERIAL TO WEATHER HEAD.) 3"C
F2	4-#6, #10 GRD. (CU), 1"C.
F3	4-#1 (AL.), #8 GRD. (CU), 2"C.
F4	4-#250 (AL), #6 GRD. (CU), 2.5"C.
F5	3-#2/0 (CU), #4 GRD (CU), 2" C.
F6	3 SETS OF 4-#400 KCMIL (AL), #1/0 GRD. (CU) 3"C.
F7	3-#4 (CU), #8 GRD. (CU), 1.25"C.
F8	4-#1/0 (CU), #6 GRD. (CU), 2"C.



SINGLE LINE DIAGRAM
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JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

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ISSUE

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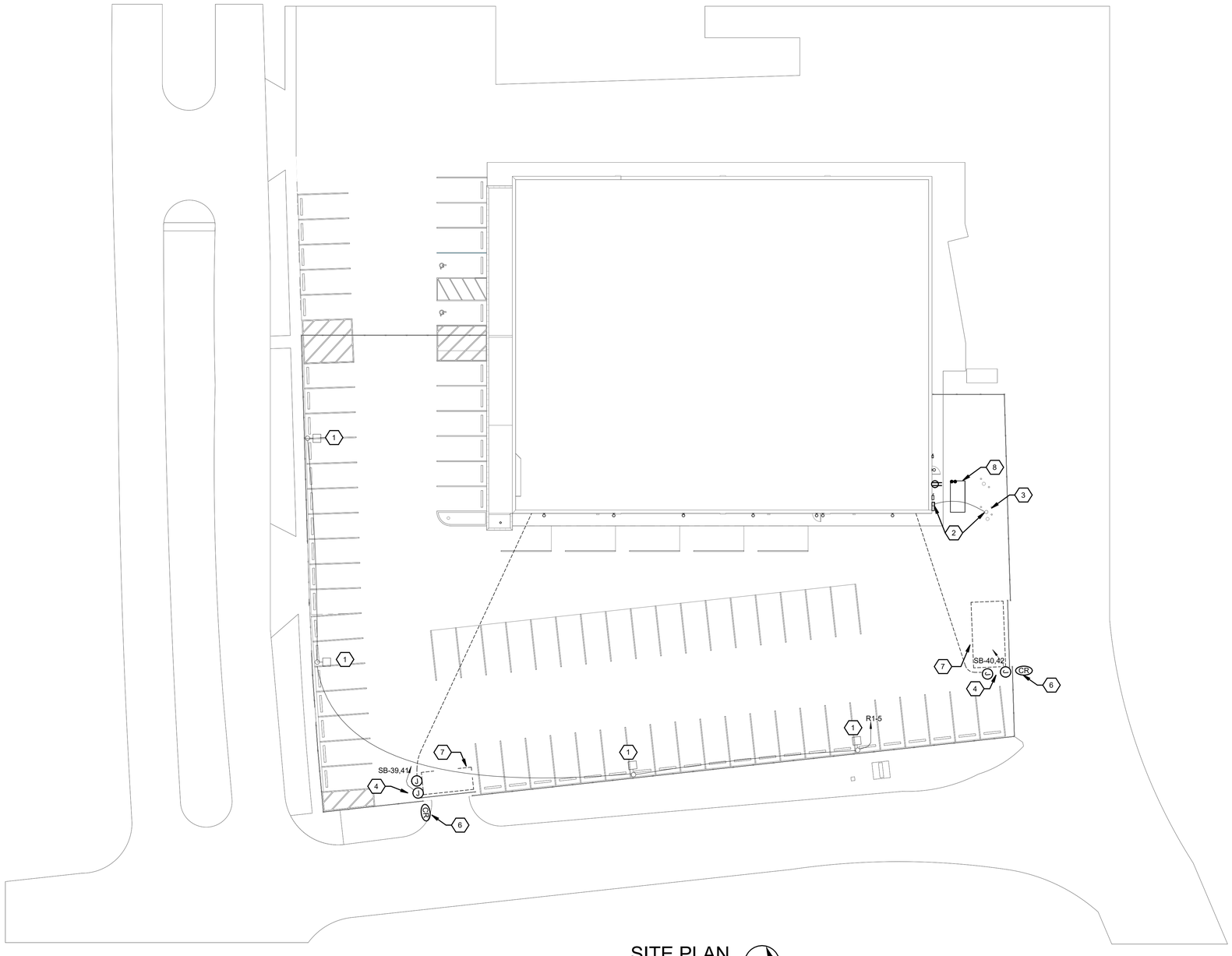
CONSTRUCTION NOTES

1. EXISTING POLE LIGHT TO REMAIN. CONNECT EXISTING CIRCUIT TO NEW EXTERIOR LIGHTING CONTACTOR IN ELECTRIC ROOM.
2. OVERHEAD SERVICE ENTRANCE CONDUCTORS TO CT CABINET ON EXTERIOR WALL (WITH METERING) PER AES ENERGY REQUIREMENTS.
3. EXISTING AES OVERHEAD PRIMARY SERVICE, 3 PHASE.
4. PROVIDE POWER TO MOTORIZED GATE OPERATOR. COORDINATE LOCATION AND POWER/CONTROL REQUIREMENTS WITH EQUIPMENT SUPPLIER. CUT/PATCH EXISTING ASPHALT PARKING LOT FOR BELOW GRADE CIRCUITRY AND CONTROLS. PROVIDE SEPARATE CONDUIT(S) FOR CONTROLS/ ACCESS CONTROL. MINIMUM 1"C.
5. CIRCUIT EXTERIOR LIGHTS THRU EXTERIOR LIGHTING CONTACTOR LOCATED IN ELECTRICAL ROOM. PROVIDE POWER TO GATE OPERATOR.
6. PROVIDE DATA CONDUIT TO I.T. ROOM FOR CARD READER. PROVIDE CONDUIT PATH WAY TO GATE OPERATOR FOR CONTROL OF GATE.
7. COORDINATE GATE CONTROL FROM SECURE SIDE OPERATION, (WIRED SENSOR LOOP, PUSH BUTTON, CARD READER, ETC.).
8. DIESEL STANDBY GENERATOR. 100 GALLON BELLY FUEL TANK PROVIDED UNDER ALTERNATE E1. REFER TO PAD DETAIL, SHEET E0.3.



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

0 10 20 40 60 80 100
SCALE: 1"=20'-0"

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EXPIRATION DATE 12/31/2025

DAYTON POLICE DEPARTMENT

1ST DISTRICT EAST PATROL

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TITLE
SITE PLAN

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E0.6

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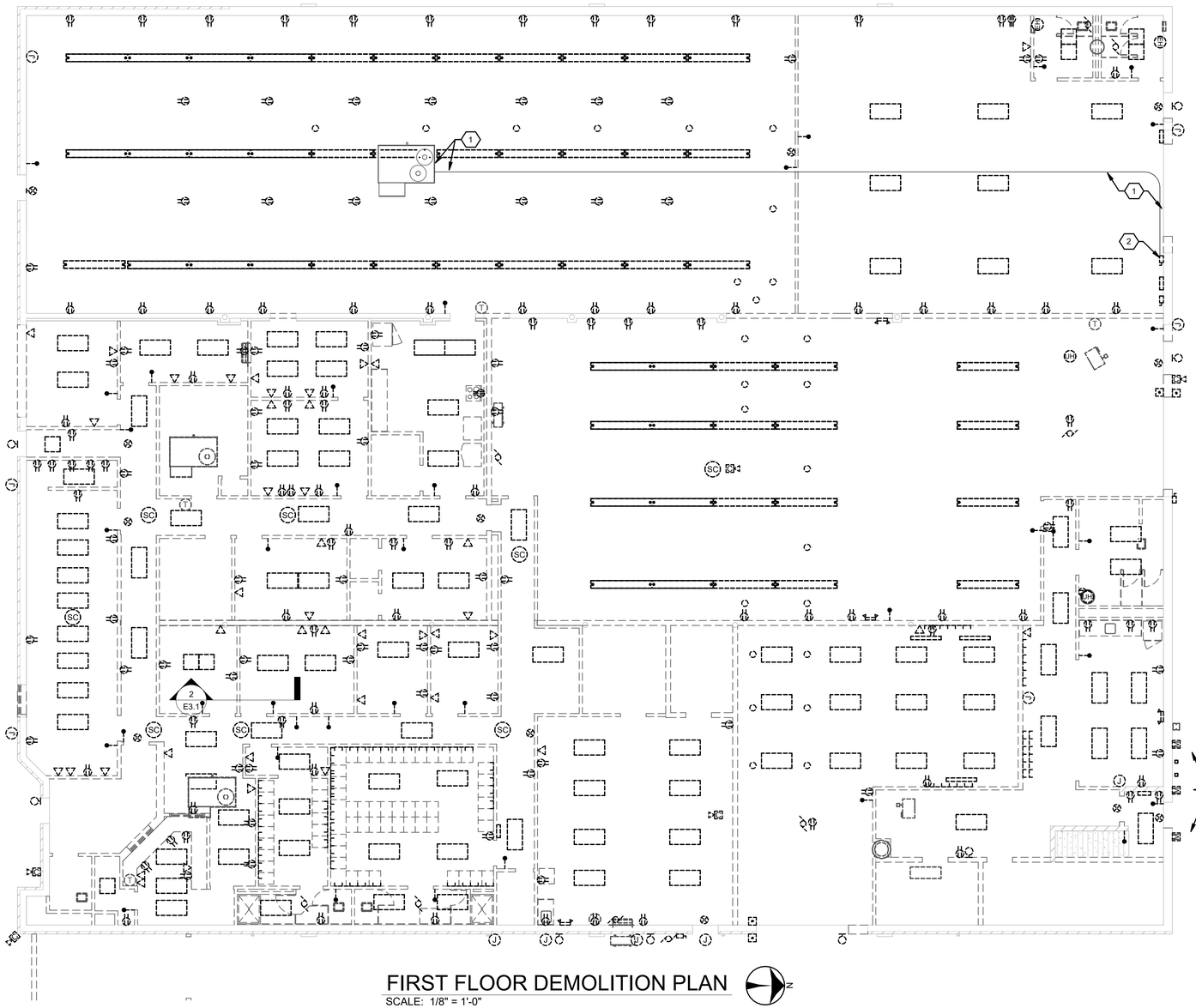
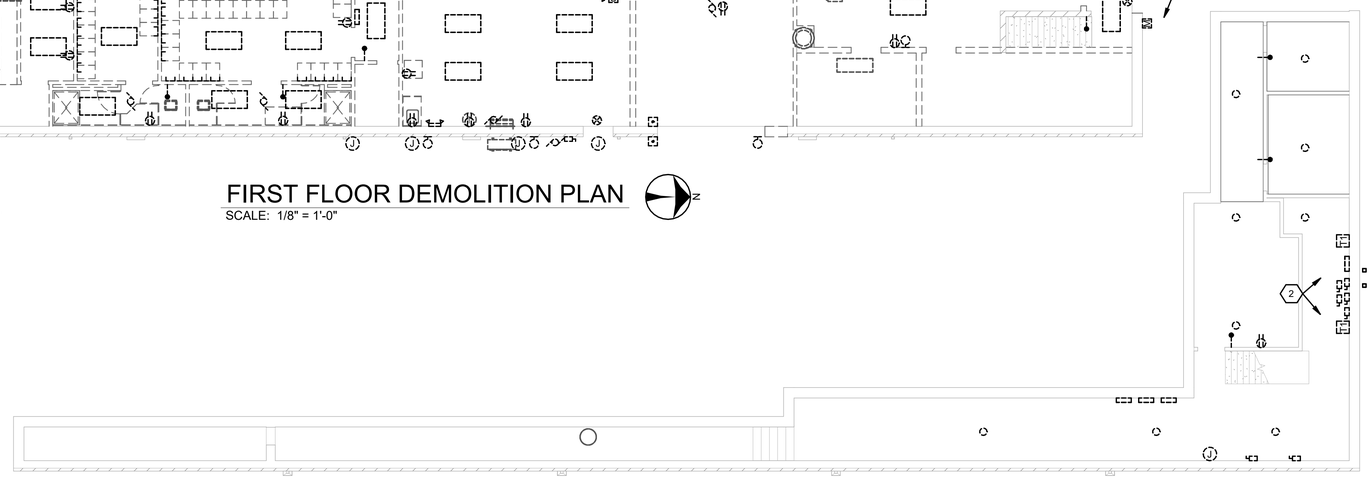


FIRST FLOOR DEMOLITION PLAN

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



BASEMENT DEMOLITION PLAN

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

0 4 8 16 24 32 40

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

GENERAL NOTES - REMOVAL WORK

A. THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THIS DRAWINGS SHALL NOT BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR SITE INVESTIGATIONS, AS NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL CIRCUITING SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM BEING REMOVED.

B. THE ELECTRICAL CONTRACTOR IS TO REMOVE ALL EXISTING UNUSED DEVICES, FIXTURES AND ALL RELATED CONDUIT, BOXES AND WIRING AND ABANDONED CABLING TOTALLY BACK TO SOURCE PANELBOARD OR ELECTRIC CLOSET. IN NO CASE SHALL ANY ABANDONED CONDUIT, WIRING OR OPEN CABLING OR EQUIPMENT REMAIN WITHIN THIS AREA OR IN ADJACENT AREAS TO ELECTRICAL ROOM OR CLOSETS.

C. REMAINING ACTIVE CONDUITS, OPEN CABLES, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED, AS IN THE CASE OF CONDUIT OR CABLE SUPPORTED TO CEILING FRAMING, DUCTWORK, OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW MECHANICAL UTILITIES. SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH N.E.C. EXISTING CABLES SHALL BE RE-SUPPORTED ON MAX. 5FT. CENTERS FROM STRUCTURE WITH J-HOOKS. RE-SUPPORT UTILITIES AS HIGH AS POSSIBLE.

D. RECESSED BOXES, OUTLETS, ETC., IN EXISTING WALLS OR CEILINGS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVERPLATES. ALL UNUSED DEVICES, WIRING, ETC., WHICH ARE ABANDONED SHALL BE REMOVED.

E. WALLS OR SURFACES WHICH ARE LEFT WITH OPENINGS OR HOLES AFTER COMPLETION OF DEMOLITION WORK SHALL BE PATCHED BY THIS CONTRACTOR CONSISTENT WITH GENERAL CONTRACTOR'S ACTIVITIES.

F. ALL INACTIVE CONDUITS RUN ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY BACK TO SOURCE OR TERMINATION IN ELECTRICAL ROOM OR SOURCE PANELBOARD. NO UNUSED CONDUIT ASSOCIATED WITH THIS AREA SHALL REMAIN UNLESS NOTED.

G. ALL INACTIVE CONDUITS RUN BELOW FLOOR SLAB SHALL BE REMOVED AT STRUCTURE BELOW AND HAVE ALL ABANDONED WIRING REMOVED (AND BE CUT OFF AT SLAB AND GROUTED CLOSED) IF NOT RETAINED FOR REUSE) UNDER THIS CONTRACT.

H. ALL ABANDONED EQUIPMENT, DEVICES, CONTROLS, AND ASSOCIATED WIRING AND CONDUITS ABOVE CEILING WHICH ARE NO LONGER BEING USED SHALL BE REMOVED IN ENTIRETY. IN ADDITION ANY WALL MOUNTED DEVICES NOT SHOWN DUE TO NOT BEING ACCESSIBLE DURING DESIGN WHICH ARE ON WALLS BEING REMOVED OR IN AREAS BEING COMPLETELY RENOVATED SHALL BE REMOVED.

I. ANY ITEMS REMOVED WITHIN THIS AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER.

J. WHERE REMOVALS ARE IN AREAS (ABOVE CEILINGS, ETC.) BEYOND THE AREA OF GENERAL DEMOLITION, MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES.

K. ANY EXISTING DEVICES IN ADJACENT SPACES MADE INACTIVE BY REMOVALS OF DEVICES OR CIRCUITRY SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OPERATIONAL.

L. DISPOSAL OF LAMPS AND BALLASTS - THIS CONTRACTOR SHALL REMOVE ALL LAMPS AND BALLASTS FROM REMOVED FIXTURES AND DISPOSE OF LAMPS AND BALLASTS VIA APPROVED DISPOSAL FACILITY.

M. ELECTRICAL CONTRACTOR TO REMOVE ALL VOICE AND DATA STATION CABLES AND ABANDONED VOICE AND DATA CABLING BACK TO SOURCE DATA RACK OR TELEPHONE BACKBOARD LOCATION. E.C. TO TRACE OUT AND REMOVE ALL REMAINING ABANDONED CABLING AND REMOVE ANY CABLING NOT BEING RETAINED FOR REUSE AS COORDINATED WITH OWNER.

N. COORDINATE WITH OWNER ANY SPECIAL REQUIREMENTS PRIOR TO COMMENCING REMOVAL OF VOICE AND DATA CABLING AND SPECIFIC DIRECTIONS FOR DISCONNECTION OF CABLES AT SOURCE PATCH PANEL OR PUNCHDOWN BLOCK.

GENERAL NOTE

REMOVE ALL DATA DEVICES, CABLE AND CONDUIT BACK TO HOME.

DEMOLITION NOTES

1. EXISTING RTU (ON ROOF) TO REMAIN, RETAIN EXISTING FEEDER TO DISCONNECT, IF FEASIBLE, FOR RE-USE TO EXTEND TO NEW MAIN SERVICE PANEL.
2. DISCONNECT AND REMOVE EXISTING SERVICES, METERING, ETC. TO ACCOMMODATE NEW OVERHEAD, CONSOLIDATED, SINGLE SERVICE.

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TITLE
DEMOLITION PLANS

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E1.1

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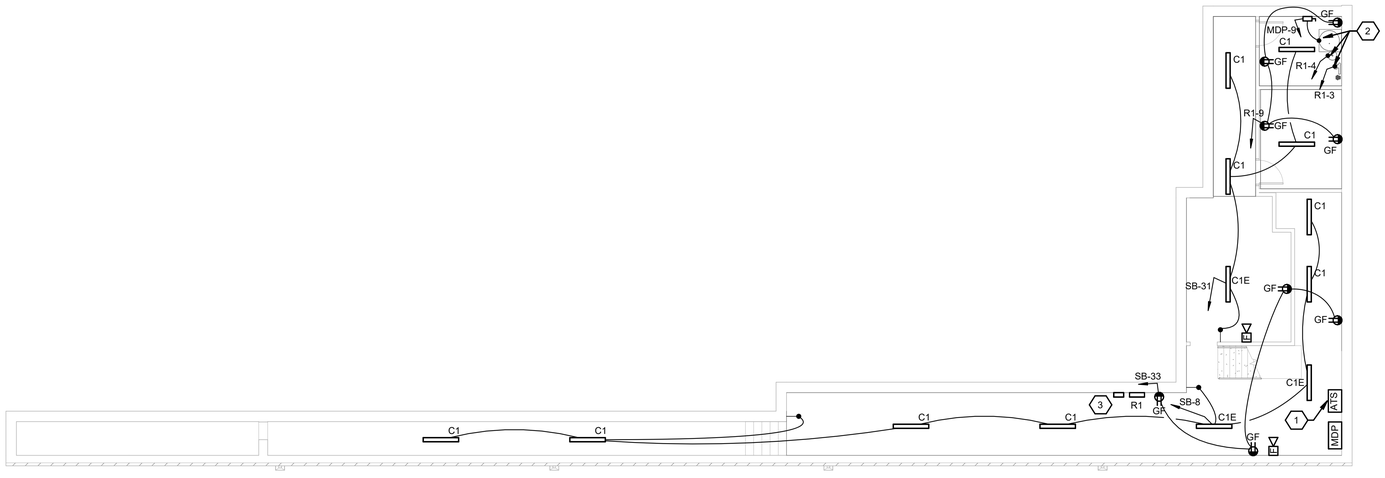
CONSTRUCTION NOTES

1. AUTOMATIC TRANSER SWITCH. ALTERNATE E-1.
2. PROVIDE FUSED DISCONNECT FOR 208V-3PH POWER CONNECTION TO WATER HEATER. 120V POWER CONNECTION TO RECIRC PUMP AND 120V POWER TO DIGITAL MIXING VALVE. REFER TO DETAIL 8 ON SHEET P3.1.
3. PROVIDE 4-POLE LIGHTING CONTACTOR (WITH PHOTOCELL CONTROL) FOR CONTROL OF EXTERIOR LIGHTING CIRCUITS.



BASEMENT LIGHTING, POWER AND SYSTEMS PLAN

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

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

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TITLE
BASEMENT LIGHTING AND POWER PLAN

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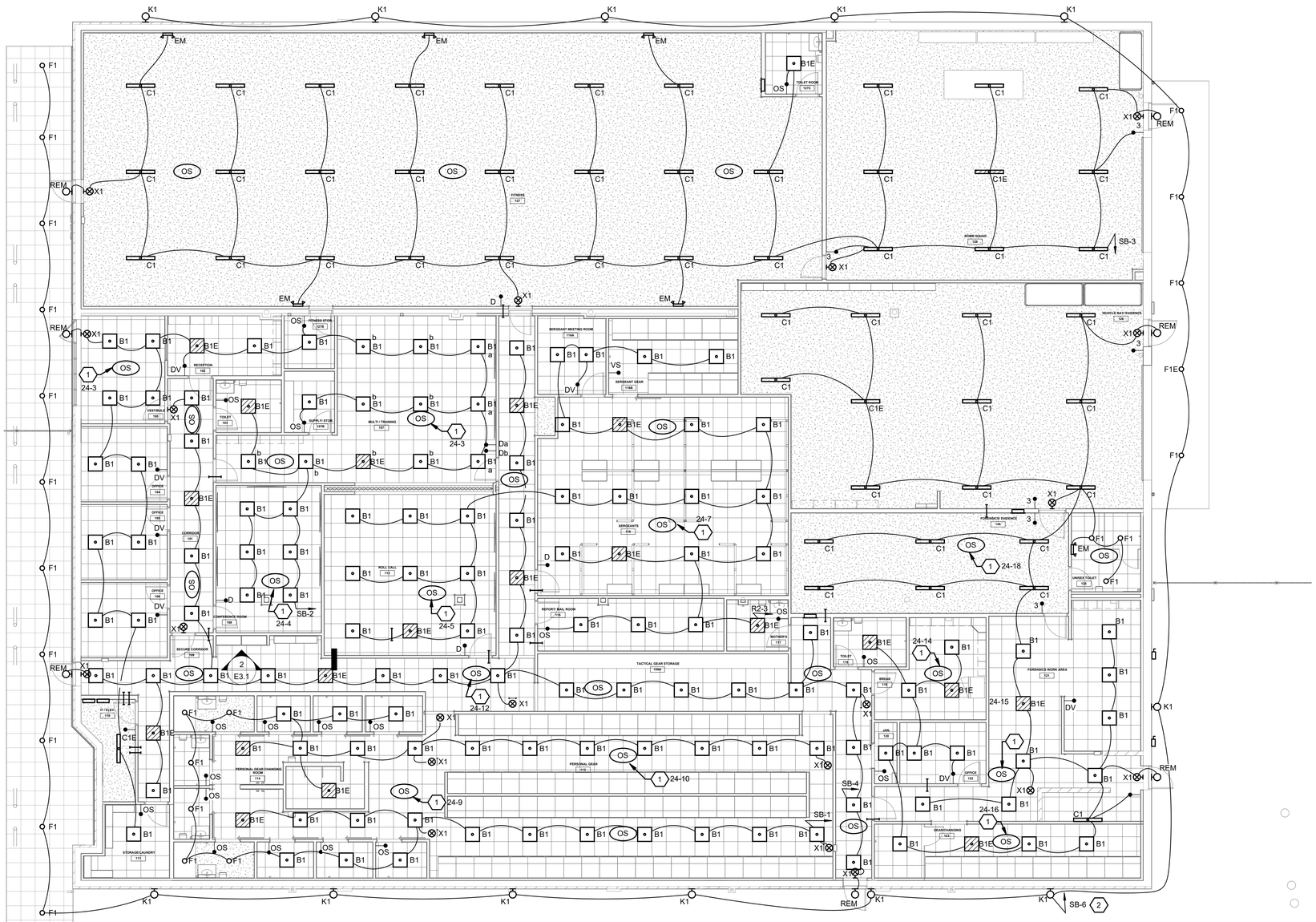
CONSTRUCTION NOTES

1. PROVIDE RELAY WITH AUXILIARY CONTACT FOR CONTROL INPUT TO DDR FOR OCCUPIED MODE/OPERATION OF VAV BX SERVING THIS AREA. COORDINATE REQUIREMENTS WITH HVAC CONTRACTOR.
2. CIRCUIT EXTERIOR LIGHTS THRU EXTERIOR LIGHTING CONTACTOR IN BASEMENT.



FIRST FLOOR LIGHTING PLAN

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

0 4 8 16 24 32 40

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

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FIRST FLOOR LIGHTING PLAN

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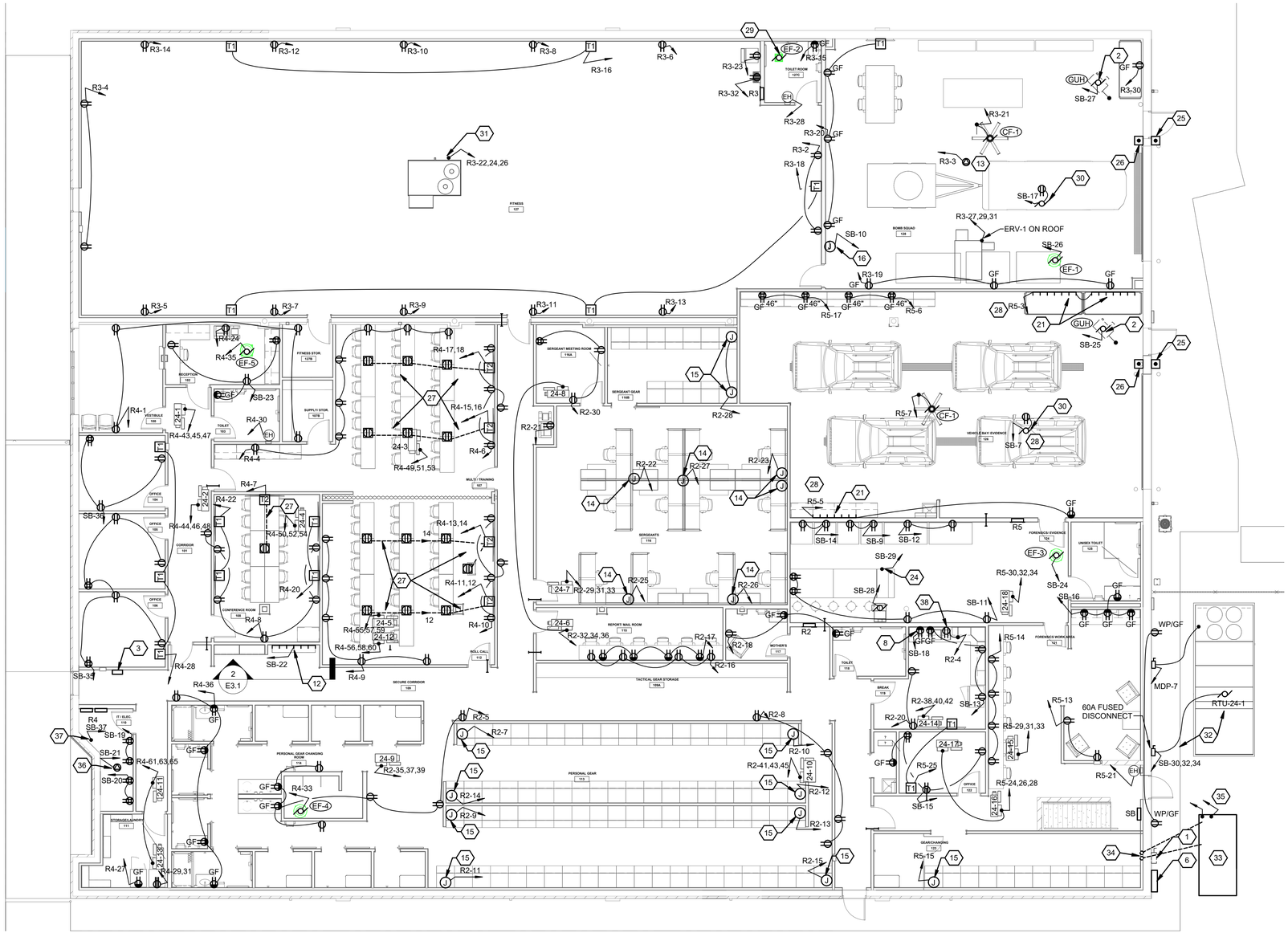
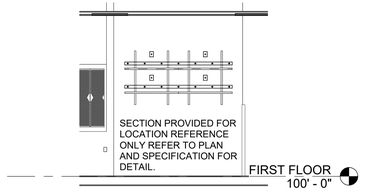


FIRST FLOOR POWER PLAN

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



POWER AND SYSTEMS

BATTERY CHARGER ELEVATION

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

0 2 4 8 12 16 20

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

0 4 8 16 24 32 40

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

CONSTRUCTION NOTES

1. PORTABLE GENERATOR CONNECTION BOX, FURNISHED UNDER BASE BID.
2. PROVIDE 120V POWER TO GAS UNIT HEATER FAN.
3. FIRE ALARM REMOTE ANNUNCIATOR .
4. MAIN GROUND BAR.
5. UNDERGROUND SERVICE FEEDERS FROM UTILITY TRANSFORMER.
6. UTILITY CT CABINET AND METER PER AES.
7. INSTALL AND WIRE DOOR OPERATOR BUTTON FURNISHED BY EQUIPMENT SUPPLIER. (OPERATOR TO BE PROGRAMMED FOR AUTO-CLOSE FEATURE AFTER 30 SECOND DELAY)
8. COORDINATE RECEPTACLE MOUNTING HEIGHT, LOCATION, WITH MICROWAVE SHELF. REFER TO ARCHITECTURAL ELEVATIONS.
9. DEDICATED 20A-120V CIRCUIT FOR WORKOUT EQUIPMENT.
10. GENERATOR DOCKING STATION. REFER TO DETAIL, SHEET E0.3 AND SPECIFICATIONS.
11. PROVIDE GFCI BREAKER FOR WASHER CIRCUIT.
12. COORDINATE RECEPTACLE AND DATA MOUNTING HEIGHTS AND LOCATIONS WITH CASEWORK ELEVATIONS. PROVIDE PLUGMOLD AND 2 DATA OUTLETS IN EACH OPEN SHELVING UNIT FOR RADIO BATTERY CHARGING. REFER TO DETAIL ON THIS SHEET FOR LOCATION
13. FLUSH MOUNTED TWISTLOCK RECEPTACLE AT CEILING STRUCTURE FOR SERVICE CORD DROP TO VEHICLE BAY.
14. PROVIDE HARDWIRED CONNECTION TO FURNITURE SYSTEM WHIP. COORDINATE INSTALLATION REQUIREMENTS WITH FURNITURE VENDOR.
15. PROVIDE HARDWIRED CONNECTION TO SECURE LOCKER SYSTEM WHIP. COORDINATE INSTALLATION REQUIREMENTS WITH LOCKER VENDOR.
16. PROVIDE 120V POWER TO CO/NOX SYSTEM DETECTION SYSTEM (FURNISHED BY H.C.). COORDINATE LOCATION WITH H.C.
17. PROVIDE 120V 1PH POWER FOR KRONOS TIME CLOCK
18. PROVIDE 120V 1PH POWER FOR DOOR OPERATOR.
19. COMMUNICATIONS GROUND BAR.
20. PROVIDE 3/4" PLYWOOD BACKBOARD CONTINUOUS ACROSS 3 WALLS OF SERVER/IT ROOM, 6" A.F.F TO 8'-6" A.F.F.
21. COORDINATE LOCATION AND MOUNTING HEIGHT OF PLUGMOLD WITH SHELVING UNITS.
22. PROVIDE 120V POWER TO FIRE ALARM PANEL IN I.T. ROOM.
23. PROVIDE 120V 30A RECEPTACLE FOR RACK/UPS. FINAL COORDINATE LOCATION/TYPE WITH OWNER/EQUIPMENT SUPPLIER.
24. PROVIDE 120V 1PH CORD DROP WITH NEMA 5-20R RECEPTACLE BOX FROM CEILING. PROVIDE STRAIN RELIEF DEVICE FOR CORD DROP, COORDINATE SUSPENSION HEIGHT WITH HOOD.
25. PROVIDE ROUGH-IN FOR KEYED SWITCH FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY E.C.
26. COORDINATE INSTALLATION OF DOOR OPERATOR BUTTON, FURNISHED BY EQUIPMENT SUPPLIER, INSTALLED BY E.C..
27. PROVIDE TWO GANG FLOOR BOX WITH .75" CONDUIT TO TV WALL BOX FOR POWER ROUTING. COORDINATE LOCATIONS AND COVER PLATES WITH OWNER.
28. CIRCUIT TO GROUND-FAULT BREAKER.
29. CONNECT EXHAUST FAN TO LIGHTING SWITCH FOR 'ON' 'OFF' CONTROL WITH LIGHTS.
30. PROVIDE 120V 1PH CONNECTION TO GARAGE DOOR OPENER.
31. PROVIDE NEW 208V 3PH CONNECTION TO EXISTING ROOF TOP UNIT. UTILIZE EXISTING PATH INTO BUILDING.
32. CIRCUIT FOR RTU-24-1 FOR FANS /HEAT/CONTROLS POWERED FROM STANDBY PANEL 'SB'.
33. STANDBY GENERATOR FURNISHED UNDER ALTERNATE E-1.
34. FEEDER FROM GENERATOR TO A.T.S. IN BASEMENT. PROVIDE START CIRCUIT WIRING AND ANNUNCIATION/ ALARM WIRING FROM GENERATOR TO A.T.S. AND TO REMOTE ANNUNCIATOR PER MANUFACTURER REQUIREMENTS.
35. PROVIDE BATTERY CHARGER AND BLOCK HEATER CIRCUITS TO GENERATOR FROM PANEL 'R1'.
36. COORDINATE CORD DROP TO DATA RACK. SEE TECHNOLOGY PLAN.
37. PROVIDE 120V 1PH CONNECTION TO FIRE ALARM PANEL.
38. PROVIDE RECEPTACLE FOR GARBAGE DISPOSAL IN BASE CABINET AND SWITCH ABOVE COUNTER AS SHOWN ON PLAN.

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TITLE
FIRST FLOOR POWER PLAN

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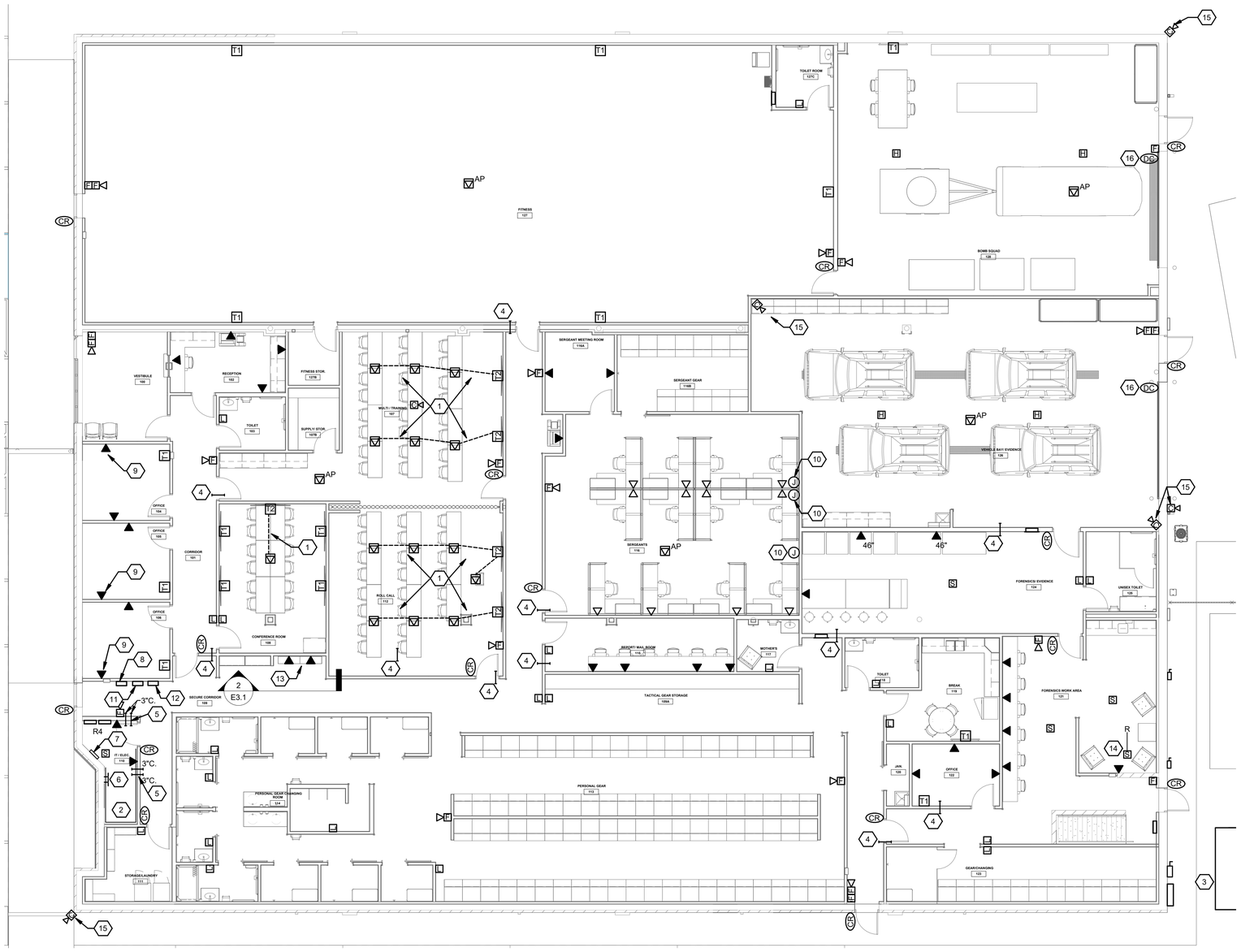

FIRST FLOOR SYSTEMS PLAN

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

CONSTRUCTION NOTES

1. PROVIDE TWO GANG FLOOR BOX WITH 1.25" CONDUIT TO TV WALL BOX FOR A/V CABLING (BY OWNER). COORDINATE LOCATIONS AND COVER PLATES WITH OWNER.
2. PROVIDE 3/4" PLYWOOD, 3 WALLS, FOR DATA, IT EQUIPMENT.
3. REFER TO SITE PLAN FOR ROUTING OF SERVICE ENTRANCE CONDUIT TO UTILITY POLE
4. PROVIDE 3" CONDUIT STUB ABOVE DRYWALL CEILING FOR LOW VOLTAGE SYSTEMS CABLING.
5. 4" CONDUITS STUBBED FROM IT ROOM TO ABOVE FIRST FLOOR CEILING FOR SYSTEMS CABLING.
6. PROVIDE TELECOMMUNICATIONS GROUND BAR IN I.T. ROOM PROVIDE #4 A.W.G. GROUND TO MAIN GROUND BAR IN ELECTRIC SERVICE ROOM.
7. FIRE ALARM PANEL IN I.T. ROOM.
8. PROVIDE 1-GANG BOX WITH .75" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR DATA DROP TO KRONOS TIME CLOCK.
9. PROVIDE ADDITIONAL 1.25" DATA CONDUIT TO ABOVE CEILING FOR HDMI CONNECTION FROM DESK COMPUTER TO TV WALL BOX. PROVIDE HDMI CONNECTION IN FACEPLATE
10. PROVIDE 2-GANG BOX WITH TWO - 1.25" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR DATA DROP TO FURNITURE SYSTEM.
11. FIRE ALARM ANNUNCIATOR PANEL.
12. GENERATOR ANNUNCIATOR PANEL.
13. COORDINATE RECEPTACLE AND DATA MOUNTING HEIGHTS AND LOCATIONS WITH CASEWORK ELEVATIONS. PROVIDE PLUGMOLD AND 2 DATA OUTLETS IN EACH OPEN SHELVING UNIT FOR RADIO BATTERY CHARGING. REFER TO DETAIL 1 ON SHEET E3.1 FOR COORDINATION
14. DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR DUCT.
15. EXISTING CAMERA TO REMAIN, PROVIDE NEW CABLING TO NEW I.T. ROOM AT DATA RACK.
16. PROVIDE ADDITIONAL CONDUIT ROUGH-IN FOR DOOR CONTACT WIRING TO OVERHEAD DOOR.

TECHNOLOGY NOTES

A. THE E.C. SHALL PROVIDE DATA SYSTEM CABLING AND TERMINATIONS FROM POINT OF USE (WALL JACKS CAMERAS AND WIRELESS ACCESS POINTS) TO OWNER'S DATA RACK IN I.T. ROOM. CAMERAS, WIRELESS ACCESS POINTS AND RACK EQUIPMENT FURNISHED BY OWNER.

B. THE E.C. SHALL PROVIDE THE FOLLOWING IN IT ROOM:
- APC 2 POST NETWORK RACK (45U NETSHELTER) 20.2"X14.8"X84.1" 2POST, SECURED TO FLOOR
- PANDUIT NETKEY PATCH PANELS 48 PORT, TOTAL OF 3 FOR RACK
- 30A-120V CIRCUIT, NEMA L5-30R TWISTLOCK RECEPTACLE ON CORD DROP FROM CEILING TO BOTTOM OF RACK FOR UPS. (UPS BY OWNER).

TECHNOLOGY CABLING NOTES

A. WALL OR WORKSTATION JACK.
-TERMINATE IN TWO GANG BOX, RJ-45 JACK
-18" OR 46" MH IN FIXED WALLS EXCEPT WHERE NOTED OTHERWISE.
-WALL OR BASE COVERPLATES TO WHITE PLASTIC WITH CLEAR PLASTIC LABEL FIELDS INDICATING PANEL AND TERMINAL.
(E.G. - "B3", PATCH PANEL B, TERMINAL3)
(MOUNT VERTICAL (WALL) WITH LABEL FIELD(S) ABOVE JACK, APPROPRIATELY ORIENTED.

B. DATA CABLE DEDICATED HOME RUN, ROUTE CABLE TO I.T. ROOM, TERMINATE AT NEW PATCH PANEL IN DATA RACK.

C. ALL DATA CABLING TO BE TERMINATED AT BOTH ENDS AND TESTED.

D. ALL CABLING TO BE CATEGORY/COLOR/JACK/CODED AS NOTED BELOW.

E. SUBMIT IDENTIFICATION NUMBERING SYSTEM FOR REVIEW WITH OWNER PRIOR TO INSTALLATION.

TECHNOLOGY LEGEND

- TWO DATA JACK CAT 6a, BLUE & WHITE JACKET CABLE, PLENUM RATED, NETKEY RJ45 JACK (WHITE WITH WHITE COVERPLATE) ACCEPTABLE MANUFACTURER TO BE VERIFIED WITH OWNER PRIOR TO RELEASE. 18" M.H. UNLESS NOTED OTHERWISE IN 4" SQUARE BOX WITH SINGLE-GANG TRIM RING AND 1" CONDUIT TO CABLE MANAGEMENT ABOVE CORRIDOR CEILING (J-HOOKS).
- AP TWO WIRELESS ACCESS POINT DATA JACK CAT 6A, ORANGE JACKET CABLE PLENUM RATED, RJ45 MALE JACK. COIL AND SUSPEND SPARE CABLE LENGTH (MINIMUM 10') AT LOCATIONS INDICATED ON PLAN. BUNDLE COILED CABLE WITH VELCRO STRAPS.
- C SURVEILLANCE CAMERA SYSTEM CAT 6A, YELLOW JACKET CABLE, PLENUM RATED, RJ45 MALE JACK.
- TWO DATA JACK, CAT 6A, BLUE & WHITE JACKET CABLE, PLENUM RATED, NETKEY RJ45 JACK (WHITE WITH FURNITURE SYSTEM COVERPLATE) ACCEPTABLE MANUFACTURER TO BE VERIFIED WITH OWNER PRIOR TO RELEASE. MOUNTED IN BASE OF FURNITURE SYSTEM. ROUTE CABLING THRU FURNITURE SYSTEM TO WALL BOX INDICATED TO ABOVE ACCESSIBLE CORRIDOR CEILING TO IT ROOM.

0 4 8 16 24 32 40

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

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FIRST FLOOR SYSTEM PLAN

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