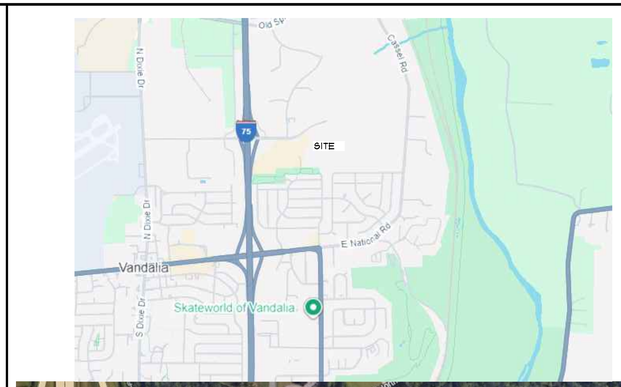
A NEW
PUBLIC WORK FACILITY
FOR
THE CITY OF VANDALIA

810 NORTHWOODS BLVD, VANDALIA, OH 45377



LOCATION MAP

NOTICE:

THESE DOCUMENTS WERE PREPARED UNDER A LIMITED SERVICES AGREEMENT BETWEEN THE OWNER AND ARCHITECT AND ARE INTENDED TO ILLUSTRATE DETAILS TYPICALLY FOUND IN COMPLETE BIDDING AND CONSTRUCTION RELATED DOCUMENTS. THE INTENT OF THESE IS TO PROVIDE A DESCRIPTION OF THE PROJECT TO A LEVEL OF DETAIL NECESSARY TO IDENTIFY COMPLIANCE WITH THE APPLICABLE LOCAL BUILDING CODE, DESIGN, DOCUMENTATION, AND COORDINATION OF THE WORK RELATED TO THE FOLLOWING ARE THE RESPONSIBILITY OF THE OWNER AND THE CONTRACTORS: SITE WORK AND PAVING, ELECTRICAL SYSTEMS, PLUMBING SYSTEMS, HVAC SYSTEMS, MATERIAL SELECTIONS AND DESIGNATIONS, AND COMPLIANCE WITH APPLICABLE ZONING AND PLAT REGULATIONS.

GENERAL NOTES:

1. ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR A COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THIS SET OF DRAWINGS. ANY INCONSISTENCIES, CONTRADICTIONS, OMISSIONS, SHALL BE PRESENTED TO THE ARCHITECT DURING THE BIDDING PERIOD FOR CLARIFICATION.
2. ANY MATERIAL OR LABOR, EITHER NOT SHOWN ON THE DRAWINGS OR NOT SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK INTENDED TO BE PERFORMED SHALL BE FURNISHED WITHOUT COST TO THE OWNER OR ARCHITECT.
3. ALL CONTRACTORS AND SUBCONTRACTORS SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT TO FURNISH A COMPLETE JOB IN ACCORDANCE WITH ALL LOCAL AND STATE GOVERNING AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK AND THE METHOD OF CONSTRUCTION.
4. THE GW4L CONTRACTOR SHALL MAINTAIN STABILITY OF THE ENTIRE STRUCTURE DURING CONSTRUCTION ACTIVITIES UNTIL THE WORK IS COMPLETE & FUNCTIONING AS A DESIGNED UNIT.
5. THE ARCHITECT/ ENGINEER SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION CHOSEN BY THE CONTRACTOR.
6. ALL BID PACKAGE CONTRACTORS SHALL BE RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS & PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY & WILL NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE THE ARCHITECT/ CONSTRUCTION MANAGER IS RESPONSIBLE FOR HIS/HER OWN SAFETY, BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS.
7. ALL BID PACKAGE CONTRACTORS SHALL VERIFY ALL DIMENSIONS (NEW & EXISTING) & ALL INFORMATION CONTAINED IN THESE DOCUMENTS. THE GW4L CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & REPORT ANY INCONSISTENCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE SOLE RESPONSIBILITY OF EACH RESPECTIVE BID PACKAGE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED.
8. THE BUILDING MUST BE CONSTRUCTED IN COMPLIANCE WITH THE ARCHITECTURAL BARRIERS ACT OF 1968, SECTION 504 OF THE REHABILITATION ACT OF 1973, AND THE AMERICAN WITH DISABILITIES ACT (ADA).

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- J — WINDOW DESIGNATION
- 23 — DOOR DESIGNATION
- CORRIDOR 102 — ROOM DESIGNATION
- ELEVATION
- 1 — CODED NOTE
- 1B — BID PACKAGE NUMBER
- 1 / A3.2 — SECTION
- 1 / A3.2 — SECTION
- 2 / A3.1 — SECTION
- W — WALL TAG

BID PACKAGES

1A	GENERAL WORK & LABOR
2A	SITE WORK
2B	FUEL ISLAND
8A	OVERHEAD DOOR
15A	PLUMBING
15B	MECHANICAL
16A	ELECTRICAL
17A	LOW VOLTAGE / CCTV / DATA
17B	BUILDING ALARM & SECURITY
17C	ACCESS CONTROL

SET NO.

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STATE OF OHIO
CHRISTOPHER R. WIDENER
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8909235 EXP. 12/31/26

vandalia ohio — small city. big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
COVER SHEET

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

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1 OF 112

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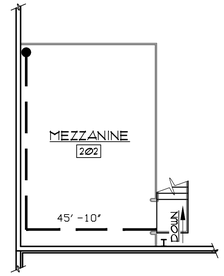
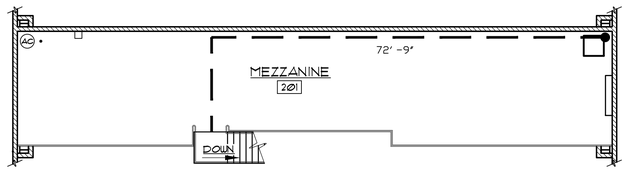
OCCUPANCY SCHEDULE

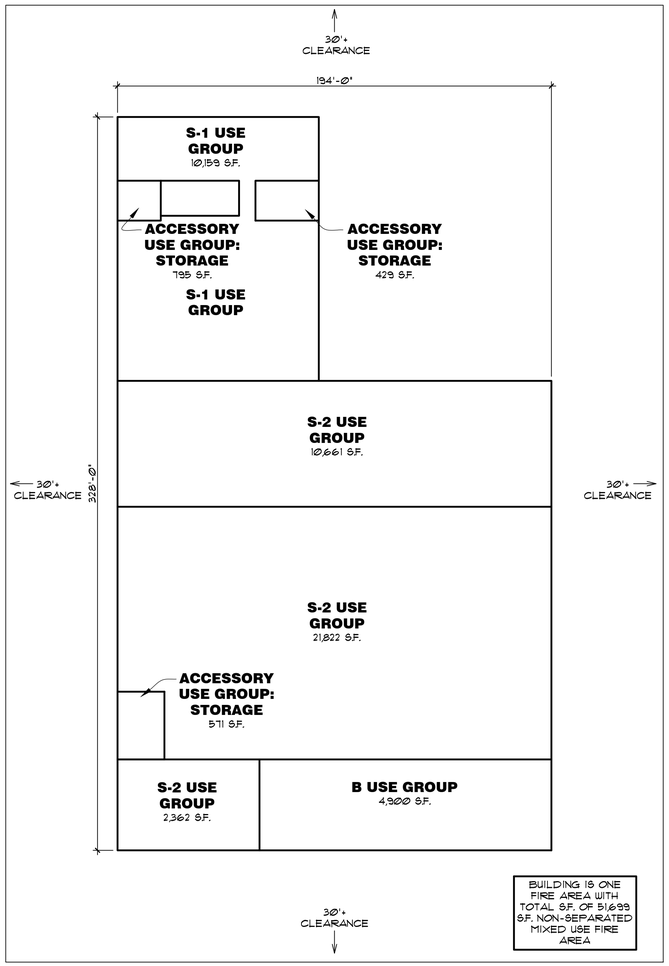
101	VESTIBULE	B BUSINESS	4,153 S.F. 130 GROSS 28 OCCUPANTS	51,699 S.F. 308 OCCUPANTS
102	ADMINISTRATOR			
103	UNISEX RESTROOM			
105	BREAK ROOM			
106	MECHANICAL			
107	ASSISTANT SUPERINTENDENT			
108	SUPERINTENDENT			
109	SUPERVISOR			
110	CORRIDOR			
111	WOMEN'S RESTROOM			
112	WOMEN'S LOCKERS			
113	WOMEN'S SHOWER			
114	STORAGE			
115	OFFICE			
116	SUPERVISOR			
117	MEN'S RESTROOM			
118	JANITOR'S CLOSET			
119	MUDROOM			
120	MEN'S LOCKER ROOM			
121	MECHANICAL			
122	CORRIDOR			
123	MEN'S SHOWERS			
104	CONFERENCE	B BUSINESS (TABLES & CHAIRS)	747 S.F. 15 GROSS 49 OCCUPANTS	
124	WATER SHOP	S-2 STORAGE	2,362 S.F. 200 GROSS 12 OCCUPANTS	
125	SIGN SHOP			
126	STORAGE	ACC STORAGE	571 S.F. 500 GROSS 2 OCCUPANTS	
127	LARGE VEHICLE STORAGE	S-2 STORAGE	21,822 S.F. 200 GROSS 111 OCCUPANTS	
202	MEZZANINE			
128	EQUIPMENT STORAGE	S-2 STORAGE	10,661 S.F. 200 GROSS 52 OCCUPANTS	
129	SERVICE BAY	S-1 STORAGE	10,159 S.F. 200 GROSS 51 OCCUPANTS	
133	HALL			
136	WASH BAY			
201	MEZZANINE			
134	TOOLS			
130	DRUM MATERIAL STORAGE	ACC STORAGE	1224 S.F. 500 GROSS 3 OCCUPANTS	
131	OFFICE			
132	UNISEX RESTROOM			
135	UNISEX RESTROOM			



MEZZANINE LIFE SAFETY PLAN
SCALE: 3/32"=1'-0" 615 SQFT.



MEZZANINE LIFE SAFETY PLAN
SCALE: 3/32"=1'-0" 1,459 SQFT.



BUILDING IS ONE FIRE AREA WITH TOTAL S.F. OF 51,699 S.F. NON-SEPARATED MIXED USE FIRE AREA

OCCUPANCY PLAN
SCALE: N.T.S. TOTAL S.F. = 51,699

SYMBOLS LEGEND

	SEE ELECTRICAL DRAWING SHEET FOR THE LOCATIONS OF THESE THREE ITEMS
FE	FIRE EXTINGUISHER
	PATH OF EGRESS
EXIT	EXIT SIGNAGE
NAE	NOT AN EXIT SIGNAGE
SEE SIGNAGE DETAILS ON SHEET G1.2-G1.5	

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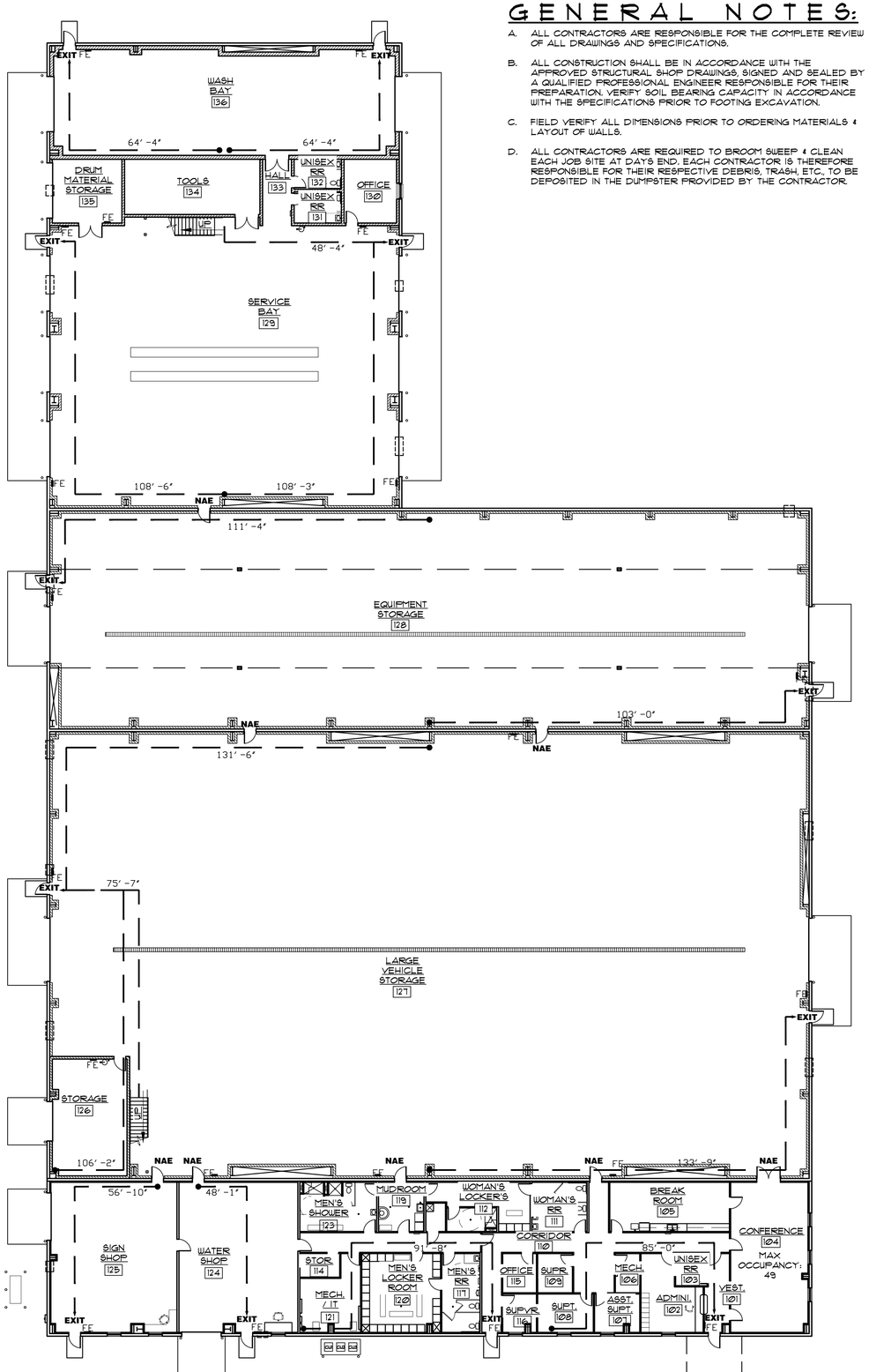

FIRST FLOOR LIFE SAFETY PLAN
SCALE: 1/16"=1'-0" 51,699 SQFT.

GENERAL NOTES:

A. ALL CONTRACTORS ARE RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

D. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE CONTRACTOR.

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REVISIONS:

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city. big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
80 NORTHWOODS BLVD
VANDALIA, OHIO 45377

LIFE SAFETY PLAN

PROJECT NO.:	23014
DRAWN BY:	
DATE:	05/18/2026
CHECKED BY:	

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2 OF 112

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2024 OHIO BUILDING CODE & OTHER RELEVANT CODES

PROJECT NAME AND LOCATION
NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
MONTGOMERY COUNTY, OHIO

BUILDING DESCRIPTIONS
THE PROJECT CONSISTS OF VARIOUS BUILDING STRUCTURES LOCATED ON THE NEW 13.54 ACRE DEVELOPMENT. THESE FIVE (5) NEW STRUCTURES INCLUDE THE FOLLOWING: NEW PUBLIC WORKS FACILITY, FUEL ISLAND, COLD STORAGE, SALT STORAGE AND A MATERIAL STORAGE STRUCTURES ALL USED BY THE CITY'S PUBLIC WORKS DEPARTMENT.

THE **PUBLIC WORKS FACILITY** IS A NEW 51,699 SF, SINGLE-STORY BUILDING, PRIMARILY USED AS AN ENCLOSED VEHICLE STORAGE BUILDING, CONSTRUCTED OF TYPE IIB CONSTRUCTION, AND PROTECTED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. THE BUILDING IS ONE FIRE AREA TOTALING 51,699 SF WITH ONE SEPARATED MIXED USE FIRE AREA FOR MATERIAL STORAGE.

THE **FUEL ISLAND & CANOPY STRUCTURE** (UNMANNED) IS PROPOSED TO BE A NEW FREE STANDING CANOPY (ONE STRUCTURE) WITH FUEL DISPENSING EQUIPMENT (DIESEL AND GAS ON A CARD READER SYSTEM WITHOUT AN AUTOMATIC SPRINKLER SYSTEM.

THE **COLD STORAGE BUILDING** (UNMANNED) IS PROPOSED TO BE A NEW 7,860 SF, SINGLE STORY BUILDING, COMPLETELY OPEN ON ONE (LONG)SIDE OF THE BUILDING, USED A STORAGE OF LARGE PUBLIC WORK EQUIPMENT WITHOUT AN AUTOMATIC SPRINKLER SYSTEM.

THE **SALT STORAGE BUILDING** (UNMANNED) IS PROPOSED TO BE A NEW 5,141 SF, SINGLE STORY BUILDING, USED TO STORE ROAD SALT WITHOUT AN AUTOMATIC SPRINKLER SYSTEM.

THE **MATERIAL STORAGE BUILDING** (UNMANNED) IS PROPOSED TO BE A NEW 3,307 SF, SINGLE STORY BUILDING, USED TO STORE PUBLIC WORKS MATERIALS WITHOUT AN AUTOMATIC SPRINKLER SYSTEM.

APPLICABLE CODES
2024 OHIO BUILDING CODE (OBC)
2024 OHIO MECHANICAL CODE (OMC)
2024 OHIO PLUMBING CODE (OPC)
2021 IECC INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

OHIO BUILDING CODE (OBC) CHAPTERS 3 THROUGH 10)

PUBLIC WORKS FACILITY

USE AND OCCUPANCY CLASSIFICATION - OBC CHAPTER 3
SINGLE OCCUPANCY BUILDING
NEW NON-FIRE SEPARATED MIXED-USE BUILDING
USE GROUP S-1 - STORAGE (Main Use) (Motor Repair Garage)
USE GROUP S-2 - STORAGE
USE GROUP B - BUSINESS

307.1 HIGH-HAZARD GROUP H. HIGH-HAZARD GROUP H OCCUPANCY INCLUDES THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, THAT INVOLVES THE MANUFACTURING, PROCESSING, GENERATION OR STORAGE OF MATERIALS THAT CONSTITUTE A PHYSICAL OR HEALTH HAZARD IN QUANTITIES IN EXCESS OF THOSE ALLOWED IN CONTROL AREAS COMPLYING WITH SECTION 414, BASED ON THE MAXIMUM ALLOWABLE QUANTITY LIMITS FOR CONTROL AREAS SET FORTH IN TABLES 307.1(1) AND 307.1(2). THE HAZARDOUS MATERIALS TO BE USED AND STORED IN THIS BUILDING DO NOT EXCEED THE MAXIMUM ALLOWABLE QUANTITIES OF THOSE ALLOWED IN CONTROL AREAS COMPLYING WITH SECTION 414, BASED ON THE MAXIMUM ALLOWABLE QUANTITY LIMITS FOR CONTROL AREAS SET FORTH IN TABLES 307.1(1) AND 307.1(2). PLEASE SEE SUMMARY TABLE ON SHEET LS 1.4 AND THE APPLICABLE MSDS SHEETS PROVIDED BY THE OWNER.
SMALL ASSEMBLY ROOMS OR SPACES USED FOR ASSEMBLY PURPOSE WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY ARE TO BE CLASSIFIED AS GROUP B OR AS PART OF THAT OCCUPANCY PER OBC 303.1.2.
311.2 MODERATE-HAZARD STORAGE, GROUP S-1: S-1 USE GROUP CLASSIFICATION: MOTOR VEHICLE REPAIR GARAGES COMPLYING WITH THE MAXIMUM ALLOWABLE QUANTITIES OF HAZARDOUS MATERIALS SPECIFIED IN TABLE 307.1(1) (SEE SECTION 406.8)
311.2.2 MOTOR VEHICLE REPAIR GARAGES: MOTOR VEHICLE REPAIR GARAGES SHALL COMPLY WITH SECTION 406.8.

SPECIAL USE AREAS - OBC CHAPTER 4
SECTION 406: MOTOR-VEHICLE-RELATED OCCUPANCIES
SECTION 406.1: GENERAL REQUIREMENTS
ALL MOTOR-VEHICLE-RELATED OCCUPANCIES (PER OBC 406.1) SHALL COMPLY WITH SECTION 406.2. MOTOR FUEL-DISPENSING FACILITIES SHALL ALSO COMPLY WITH SECTION 406.7. REPAIR GARAGES SHALL ALSO COMPLY WITH SECTION 406.8.
SECTION 406.2 DESIGN
EQUIPMENT AND APPLIANCES (PER OBC 406.2.9) SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 406.2.9.1 THROUGH 406.2.9.3 AND THE MECHANICAL CODE, INTERNATIONAL FUEL GAS CODE AND NFPA 70 PER SECTION 406.2.9.
SECTION 406.4 PUBLIC PARKING GARAGES
PARKING GARAGES SHALL BE CLASSIFIED AS PUBLIC PARKING GARAGES AND SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 406.2 AND 406.4 AND SHALL BE CLASSIFIED AS EITHER AN OPEN PARKING GARAGE OR AN ENCLOSED PARKING GARAGE.
VEHICLE BARRIERS SHALL BE PLACED AS REQUIRED BY SECTION 406.4.2. THE VEHICLE BARRIERS SHALL COMPLY WITH THE LOADING REQUIREMENTS OF SECTION 1607.10.
SECTION 406.6 ENCLOSED PARKING GARAGES
ENCLOSED PARKING GARAGES, WHICH ARE THE S-1 AND S-2 USE GROUPS IN THE PUBLIC WORKS FACILITY, SHALL COMPLY WITH SECTIONS 406.2, 406.4 (PUBLIC PARKING GARAGES) AND 406.6 (ENCLOSED PARKING GARAGES); AND SHALL BE VENTILATED PER 406.6.2 AND EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.10 PER SECTION 406.6.3.
SECTION 406.7 MOTOR FUEL-DISPENSING FACILITIES
NO MOTOR FUEL-DISPENSING OPERATIONS ARE LOCATED IN THIS BUILDING COMPLYING WITH SECTION 406.7.
SECTION 406.8 REPAIR GARAGES
REPAIR GARAGES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND SECTIONS 406.2 AND 406.8. THIS OCCUPANCY SHALL NOT INCLUDE MOTOR FUEL-DISPENSING FACILITIES, AS REGULATED IN SECTION 406.7.
REPAIR GARAGES SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH THE MECHANICAL CODE. THE VENTILATION SYSTEM SHALL BE CONTROLLED AT THE ENTRANCE TO THE GARAGE.
REPAIR GARAGES USED FOR REPAIR OF VEHICLES FUELED BY NONODORIZED GASES INCLUDING BUT NOT LIMITED TO HYDROGEN AND NONODORIZED LNG, SHALL BE PROVIDED WITH A GAS DETECTION SYSTEM THAT COMPLIES WITH SECTION 916.

SECTION 414 HAZARDOUS MATERIALS
THE PROVISIONS OF SECTIONS 414.1 THROUGH 414.6 SHALL APPLY TO BUILDINGS AND STRUCTURES OCCUPIED FOR THE MANUFACTURING, PROCESSING, DISPENSING, USE OR STORAGE OF HAZARDOUS MATERIALS.
A REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IDENTIFYING THE MAXIMUM EXPECTED QUANTITIES OF HAZARDOUS MATERIALS TO BE STORED, USED IN A CLOSED SYSTEM AND USED IN AN OPEN SYSTEM, AND SUBDIVIDED TO SEPARATELY ADDRESS HAZARDOUS MATERIAL CLASSIFICATION CATEGORIES BASED ON TABLES 307.1(1) AND 307.1(2).
414.2.5 HAZARDOUS MATERIAL IN GROUP M DISPLAY AND STORAGE AREAS AND IN GROUP S STORAGE AREAS.
HAZARDOUS MATERIALS LOCATED IN GROUP M AND GROUP S OCCUPANCIES SHALL BE IN ACCORDANCE WITH SECTIONS 414.2.5.1 THROUGH 414.2.5.3 THROUGH 414.2.5.1. ALL HAZARDOUS MATERIALS USED AND STORED WITH THE NEW BUILDING ARE BELOW THE MAXIMUM ALLOWABLE QUANTITIES PER TABLE 414.2.5.1.

GENERAL BUILDING HEIGHT AND AREA - OBC CHAPTER 5

SECTION 502.1 BUILDING ADDRESS IDENTIFICATION: 810 NORTHWOODS BLVD
SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
PROPOSED BUILDING HEIGHT /STORIES:
NEW BUILDING - 30'-0" AVG HEIGHT OF HIGHEST ROOF (22' EVE HEIGHT) / 1 STORY ABOVE GRADE
PROPOSED BUILDING AREA (INSIDE EXTERIOR WALLS):
NEW BUILDING 51,699 SF (NON-SEPARATED MIXED USE)
NEW MEZZANINES 2,074 SF
BUILDING AREA 53,773 SF (BUILDING AREA ABOVE GRADE PLANE)
SECTION 504 BUILDING HEIGHT AND NUMBER OF STORIES
504.1.1 UNLIMITED AREA BUILDINGS. THE HEIGHT OF UNLIMITED AREA BUILDINGS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 507.
SECTION 505 MEZZANINES AND EQUIPMENT PLATFORMS
A MEZZANINE IN COMPLIANCE WITH SECTION 505.2 SHALL BE CONSIDERED A PORTION OF THE STORY BELOW. SUCH MEZZANINES SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR NUMBER OF STORIES AS REGULATED BY SECTION 503.1. THE AREA OF THE MEZZANINE SHALL BE INCLUDED IN DETERMINING THE FIRE AREA. THE CLEAR HEIGHT ABOVE AND BELOW THE MEZZANINE FLOOR CONSTRUCTION SHALL BE NOT LESS THAN 7 FEET.
505.2.1 AREA LIMITATION. THE AGGREGATE AREA OF A MEZZANINE SHALL BE NOT GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED.
SERVICE BAY (ROOM 129) AREA: 6,232 SF (OPEN FLOOR AREA)
MEZZANINE (ROOM 201) AREA: 1,459 SF OK < 2,077 SF (1/3 OF 6,232 SF)
LARGE VEHICLE STORAGE (ROOM 127) AREA: 21,207 SF (OPEN FLOOR AREA)
MEZZANINE (ROOM 202) AREA: 615 SF OK < 7,069 SF (1/3 OF 21,207 SF)
505.2.2 MEANS OF EGRESS. THE MEANS OF EGRESS FOR MEZZANINES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CHAPTER 10. OK
505.2.3 OPENNESS. A MEZZANINE SHALL BE OPEN AND UNOBSTRUCTED TO THE ROOM IN WHICH SUCH MEZZANINE IS LOCATED EXCEPT FOR WALLS NOT MORE THAN 42 INCHES (1067 MM) IN HEIGHT, COLUMNS AND POSTS.
SECTION 506 BUILDING AREA
SECTION 506.1.1 UNLIMITED AREA BUILDINGS. UNLIMITED AREA BUILDINGS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 507.
SECTION 507 UNLIMITED AREA BUILDINGS
507.4 SPRINKLERED, ONE-STORY BUILDINGS.
THE AREA OF A GROUP B, F, M OR S BUILDING NO MORE THAN ONE STORY ABOVE GRADE PLANE OF ANY CONSTRUCTION TYPE, SHALL NOT BE LIMITED WHERE THE BUILDING IS PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT IN ACCORDANCE WITH SECTION 903.3.1.1 AND IS SURROUNDED AND ADJOINED BY PUBLIC WAYS OR YARDS NOT LESS THAN 60 FEET IN WIDTH.
BUILDING IS AN UNLIMITED AREA BUILDING OK
SECTION 508: MIXED USE AND OCCUPANCY
SECTION 508.3: NONSEPARATED MIXED OCCUPANCY
THE CODE REQUIREMENTS APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE FIRE PROTECTION PROVISIONS OF OBC CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.
THE ALLOWABLE BUILDING AREA, HEIGHT AND NUMBER OF STORIES OF THE BUILDING ARE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH OBC SECTION 503.1.
NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES

TYPE OF CONSTRUCTION - OBC CHAPTER 6
TABLE 601: FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS
FOR TYPE IIB NON-COMBUSTIBLE CONSTRUCTION
STRUCTURAL FRAME: 0 HOUR
BEARING WALLS: 0 HOUR
NON-BEARING WALLS: 0 HOUR
FLOOR CONSTRUCTION: 0 HOUR
ROOF CONSTRUCTION: 0 HOUR
EXTERIOR WALLS (> 30'): 0 HOURS
INTERIOR FINISHES TO COMPLY WITH TABLE 803.11

FIRE RATED CONSTRUCTION - OBC CHAPTER 7 (SPRINKLERED BUILDING)
CORRIDOR WALLS 1-HOUR (OBC SECTION 1020.1)
0-HOUR (OBC 1020.2; IF < 30 OCC)

INTERIOR FINISHES - OBC CHAPTER 8
ALL INTERIOR WALL, CEILING AND FLOOR FINISHES WILL MEET ALL OBC CHAPTER 8 REQUIREMENTS.

FIRE PROTECTION SYSTEMS - OBC CHAPTER 9
SECTION 903: AUTOMATIC SPRINKLER SYSTEM:
NFPA 13 AUTOMATIC SPRINKLER SYSTEM THROUGHOUT BUILDING

SECTION 904: ALTERNATIVE FIRE-EXTINGUISHING SYSTEMS: NOT REQUIRED
SECTION 905 STANDPIPE SYSTEM: NOT REQUIRED
HIGHEST FLOOR LEVEL < 30' ABOVE FIRE DEPARTMENT ACCESS.
SECTION 906 PORTABLE FIRE EXTINGUISHERS:
SELECTED AND INSTALLED IN ACCORDANCE PER NFPA 10.
SECTION 907 FIRE ALARM & DETECTION SYSTEMS: NOT REQUIRED
SECTION 907.2.9.1: AN AUTOMATIC OR MANUAL FIRE ALARM SYSTEM INSTALLED PER NFPA 72 IS NOT REQUIRED.
MONITORING OF FIRE SUPPRESSION SYSTEM TO BE PROVIDED.
SECTION 908 AUTOMATIC SMOKE DETECTION SYSTEM: NOT REQUIRED.
SECTION 908 EMERGENCY ALARM SYSTEM: NOT REQUIRED
SECTION 909 SMOKE CONTROL SYSTEM: NOT REQUIRED
SECTION 910 SMOKE AND HEAT REMOVAL: NOT REQUIRED
SECTION 911 FIRE COMMAND CENTER: NOT REQUIRED
SECTION 912 FIRE DEPARTMENT CONNECTIONS: NOT REQUIRED
PROVIDED AS DIRECTED BY FIRE DEPARTMENT
SECTION 913 FIRE PUMPS: NOT REQUIRED
SECTION 914 EMERGENCY RESPONDER SAFETY FEATURES: NOT REQUIRED
SECTION 915 CARBON MONOXIDE DETECTION SYSTEM: NOT REQUIRED
SECTION 916 GAS DETECTION SYSTEM NOT REQUIRED
SECTION 917 MASS NOTIFICATION SYSTEMS NOT REQUIRED
SECTION 918 EMERGENCY RESPONDER RADIO COVERAGE: NOT REQUIRED

MEANS OF EGRESS - OBC CHAPTER 10
SECTION 1004.1 DESIGN OCCUPANT LOAD
SEE OCCUPANCY SCHEDULE ON LIFE SAFETY SHEETS LS1.1 AND LS1.2
TABLE 1004.5
ACC STORAGE/MECH ROOMS 1,795 SF @ 500 = 5 OCCUPANTS
BUSINESS AREAS 4,153 SF @ 150 = 28 OCCUPANTS
BUSINESS AREA (TABLES & CHAIRS) 747 SF @ 15 = 49 OCCUPANTS
PARKING GARAGES 45,064 SF @ 200 = 226 OCCUPANTS
TOTAL OCCUPANTS IN BUILDING: 308 OCCUPANTS
SECTION 1005 MEANS OF EGRESS SIZING
DOORWAYS: 32" MIN EACH EGRESS DOOR
STAIRWAYS: NONE PROVIDED, EXCEPT MEZZANINES
SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
OBC TABLE 1006.2.1
ROOMS/SPACES WITH ONE EXIT:
B OCCUPANCY 49 MAX OCCUPANT
S OCCUPANCY 29 MAX OCCUPANT
MAX COMMON PATH OF TRAVEL: 100' (SPRINKLERED)
(GROUPS B or S; W/ SPRINKLER SYSTEM)
OBC TABLE 1006.3.3 MINIMUM NUMBER OF EXITS PER STORY
OCCUPANT LOAD 1-500 = 2
SECTION 1007 EXIT AND EXIT ACCESS
REMOTENESS OF EXITS: 1/2 THE DIAGONAL (NOT SPRINKLERED)
SECTION 1008 MEANS OF EGRESS ILLUMINATION:
THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM IS OCCUPIED. MEANS OF EGRESS ILLUMINATION IS PROVIDED BY NORMAL ROOM LIGHTING.
EMERGENCY POWER (90 MIN MINIMUM) IS ONLY REQUIRED FOR MEANS OF EGRESS ILLUMINATION OF ALL ROOMS OR SPACES WHICH REQUIRE TWO OR MORE MEANS OF EGRESS, INCLUDING ALL AISLES, CORRIDORS, EXIT STAIRWAYS AND RAMPS, PASSAGEWAYS, VESTIBULES AND EXTERIOR LANDINGS.
SECTION 1009 ACCESSIBLE MEANS OF EGRESS:
EACH EXIT IS AN ACCESSIBLE MEANS OF EGRESS AND IS CONTINUOUS TO A PUBLIC WAY.
BUILDING IS A SINGLE STORY BUILDING. ALL MEANS OF EGRESS ARE ACCESSIBLE.
SIGNAGE: REQUIRED
SECTION 1010 DOORS
ALL DOORS, HARDWARE AND CONFIGURATION MEETS OBC SECTION 1010.
PANIC HARDWARE IS NOT REQUIRED (GROUP B & S OCCUPANCY).
SECTION 1011 STAIRWAYS NONE PROVIDED
SECTION 1012 RAMPS NONE PROVIDED
SECTION 1013 EXIT SIGNS REQUIRED
PROVIDED AT ALL EXITS AND ACCESS DOORS PER 1013.1.
EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR SPACES WHERE ONLY ONE EXIT IS REQUIRED.
SECTION 1014 HANDRAILS NONE PROVIDED
HANDRAILS SHALL COMPLY WITH OBC 1014.2 THROUGH 1014.9
SECTION 1015 GUARDS NONE PROVIDED
GUARDS SHALL COMPLY WITH OBC 1015.2 THROUGH 1015.8
SECTION 1016 EXIT ACCESS REQUIRED
EXIT ACCESS SHALL COMPLY WITH OBC 1016.2.
SECTION 1017 EXIT ACCESS TRAVEL DISTANCE REQUIRED
EXIT ACCESS TRAVEL DISTANCE WILL COMPLY WITH OBC 1017.2
OBC TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
GROUP B, R: 200' MAX (WITHOUT SPRINKLER)
GROUP S-2: 300' MAX (WITHOUT SPRINKLER)
SECTION 1018 AISLES NONE PROVIDED
SECTION 1019 EXIT ACCESSWAYS AND RAMPS NONE PROVIDED
SECTION 1020 - CORRIDORS
ALL CORRIDORS SHALL COMPLY WITH 1020.1 THROUGH 1020.6
CORRIDOR FIRE RESISTANCE RATING IS NOT REQUIRED FOR CORRIDORS IN GROUPS B & S SPACES REQUIRING ONLY A SINGLE EXIT/MEANS OF EGRESS COMPLYING WITH 1006.2
OBC TABLE 1020.2 CORRIDOR FIRE RESISTANCE RATING
WHEN CORRIDOR OCCUPANT LOAD > THAN 30
USE GROUP B & S: 0 HOUR RATED (SPRINKLERED)
OBC TABLE 1020.3 MINIMUM CORRIDOR WIDTH:
OCCUPANT LOAD < 50:36 INCHES
OCCUPANT LOAD > 50:44 INCHES
ALL DEAD END CORRIDORS SHALL COMPLY WITH OBC 1020.4
50 FEET MAXIMUM (SPRINKLERED)
UNLIMITED WHEN CORRIDOR IS 2.5 TIMES THE WIDTH.
SECTION 1023 INTERIOR EXIT STAIRWAYS: NOT PROVIDED
SECTION 1028 EXIT DISCHARGE: REQUIRED
ALL EXIT DISCHARGE IS AT GRADE.

FUEL ISLAND STRUCTURE (UNMANNED)

USE AND OCCUPANCY CLASSIFICATION - OBC CHAPTER 3
SINGLE OCCUPANCY BUILDING
NEW NON-FIRE SEPARATED MIXED-USE BUILDING
USE GROUP S-2 - STORAGE (MOTOR FUEL-DISPENSING FACILITY)
NO MOTOR VEHICLE REPAIR - FUEL-DISPENSING ONLY
THE INSTALLATION OF THE FUEL TANKS, THE DISPENSING EQUIPMENT, AND THE OPERATIONAL REQUIREMENTS AT A MOTOR FUEL-DISPENSING FACILITY ARE IN ACCORDANCE WITH CHAPTER 23 OF THE INTERNATIONAL FIRE CODE

SPECIAL USE AREAS - OBC CHAPTER 4
SECTION 406: MOTOR-VEHICLE-RELATED OCCUPANCIES
SECTION 406.1: GENERAL REQUIREMENTS
ALL MOTOR-VEHICLE-RELATED OCCUPANCIES (PER OBC 406.1) SHALL COMPLY WITH SECTION 406.2. MOTOR FUEL-DISPENSING FACILITIES SHALL ALSO COMPLY WITH SECTION 406.7.
SECTION 406.2 DESIGN
EQUIPMENT AND APPLIANCES (PER OBC 406.2.9) SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 406.2.9.1 THROUGH 406.2.9.3 AND THE MECHANICAL CODE, INTERNATIONAL FUEL GAS CODE AND NFPA 70 PER SECTION 406.2.9.
VEHICLE BARRIERS SHALL BE PLACED AS REQUIRED BY SECTION 406.4.2. THE VEHICLE BARRIERS SHALL COMPLY WITH THE LOADING REQUIREMENTS OF SECTION 1607.10.
SECTION 406.7 MOTOR FUEL-DISPENSING FACILITIES
BUILDINGS AND CANOPIES HOUSING MOTOR FUEL-DISPENSING OPERATIONS ARE TO COMPLY WITH THIS CODE (SECTIONS 406.2 AND 406.7) AND CHAPTER 5 OF THE MECHANICAL CODE. THE INSTALLATION OF THE FUEL TANKS, THE DISPENSING EQUIPMENT, AND THE OPERATIONAL REQUIREMENTS AT A MOTOR FUEL-DISPENSING FACILITY ARE TO BE IN ACCORDANCE WITH CHAPTER 23 OF THE INTERNATIONAL FIRE CODE AS ENFORCED BY THE FIRE OFFICIAL.
406.7.1 VEHICLE FUELING PAD. THE VEHICLE SHALL BE FUELED ON NONCOATED CONCRETE OR OTHER APPROVED PAVING MATERIAL HAVING A RESISTANCE NOT EXCEEDING 1 MEGOHM AS DETERMINED BY THE METHODOLOGY IN CEN EN 1081.
406.7.2 CANOPIES. CANOPIES UNDER WHICH FUELS ARE DISPENSED SHALL HAVE A CLEAR, UNOBSTRUCTED HEIGHT OF NOT LESS THAN 13 FEET 6 INCHES TO THE LOWEST PROJECTING ELEMENT IN THE VEHICLE DRIVE-THROUGH AREA. CANOPIES AND THEIR SUPPORTS OVER PUMPS SHALL BE OF NONCOMBUSTIBLE MATERIALS. COMBUSTIBLE MATERIALS USED IN OR ON A CANOPY SHALL COMPLY WITH THIS SECTION.
CANOPIES USED TO SUPPORT GASEOUS HYDROGEN SYSTEMS SHALL COMPLY WITH SECTION 406.7.2.1.

GENERAL BUILDING HEIGHT AND AREA - OBC CHAPTER 5
SECTION 502.1 BUILDING ADDRESS IDENTIFICATION: 810 NORTHWOODS BLVD
SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
PROPOSED BUILDING HEIGHT /STORIES:
NEW BUILDING - 22'-0" AVG HEIGHT OF HIGHEST ROOF (22' EVE HEIGHT) / 1 STORY ABOVE GRADE
PROPOSED BUILDING AREA (OPEN):
NEW BUILDING AREA: 600 SF (BUILDING AREA ABOVE GRADE PLANE)

SECTION 504 BUILDING HEIGHT AND NUMBER OF STORIES
TABLE 504.3: ALLOWABLE HEIGHT
S-2 USE/TYPE IIB:55' MAXIMUM, NON-SPRINKLERED OK
TABLE 504.4: ALLOWABLE STORIES ABOVE GRADE PLANE
S-2 USE/TYPE IIB: 3 STORIES MAXIMUM, NON-SPRINKLERED OK
SECTION 506 BUILDING AREA 405 SF
SECTION 506.2: ALLOWABLE BUILDING AREA (SINGLE-STORY)
OPEN AREA: 100% OPEN AREA I = .75 (OBC SECTION 506.3.3)
S-2 USE/TYPE IIB:26,000 SF TABULAR MAX, NON-SPRINKLERED

TYPE OF CONSTRUCTION - OBC CHAPTER 6
TABLE 601: FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS
FOR TYPE IIB NON-COMBUSTIBLE CONSTRUCTION
STRUCTURAL FRAME: 0 HOUR
BEARING WALLS: 0 HOUR
NON-BEARING WALLS: 0 HOUR
FLOOR CONSTRUCTION: 0 HOUR
ROOF CONSTRUCTION: 0 HOUR
EXTERIOR WALLS (> 30'): 0 HOURS
INTERIOR FINISHES TO COMPLY WITH TABLE 803.11

FIRE RATED CONSTRUCTION - OBC CHAPTER 7 NO WALLS

INTERIOR FINISHES - OBC CHAPTER 8
ALL INTERIOR WALL, CEILING AND FLOOR FINISHES WILL MEET ALL OBC CHAPTER 8 REQUIREMENTS.

FIRE PROTECTION SYSTEMS - OBC CHAPTER 9
SECTION 903: AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED
SECTION 904: ALTERNATIVE FIRE-EXTINGUISHING SYSTEMS: NOT REQUIRED
SECTION 906 PORTABLE FIRE EXTINGUISHERS:
SELECTED AND INSTALLED IN ACCORDANCE PER NFPA 10.
SECTION 907 FIRE ALARM & DETECTION SYSTEMS: NOT REQUIRED

MEANS OF EGRESS - OBC CHAPTER 10
SECTION 1004.1 DESIGN OCCUPANT LOAD
SEE OCCUPANCY SCHEDULE ON LIFE SAFETY SHEETS LS1.1 AND LS1.2
TABLE 1004.5 TABULAR OCCUPANT LOAD (FOR EGRESS)
PARKING GARAGES 600 SF @ 200 = 3 OCCUPANTS
DESIGN OCCUPANT LOAD (STORAGE ONLY): 0 OCCUPANTS
REQUESTING THIS BUILDING BE APPROVED WITH NO DESIGN OCCUPANTS AS THE BUILDING IS ONLY USED FOR FUEL DISPENSING.

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LIFE SAFETY NOTES

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DATE: 05/18/2026
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LS1.2
3 OF 112

2024 OHIO BUILDING CODE & OTHER RELEVANT CODES

COLD STORAGE BUILDING (UNMANNED)

USE AND OCCUPANCY CLASSIFICATION - OBC CHAPTER 3
SINGLE OCCUPANCY BUILDING
NEW BUILDING - USE GROUP S-2 - COVERED STORAGE OF EQUIPMENT
NO MOTOR VEHICLE REPAIR - COVERED STORAGE ONLY
NO FUEL-DISPENSING
ALL HAZARDOUS MATERIALS (LIMITED TO THE FUEL IN VEHICLES) USED AND STORED WITH THE NEW BUILDING ARE BELOW THE MAXIMUM ALLOWABLE QUANTITIES PER TABLE 414.2.5.1.

SPECIAL USE AREAS - OBC CHAPTER 4
SECTION 406: MOTOR-VEHICLE-RELATED OCCUPANCIES
SECTION 406.1: GENERAL REQUIREMENTS
ALL MOTOR-VEHICLE-RELATED OCCUPANCIES (PER OBC 406.1) SHALL COMPLY WITH SECTION 406.2.
SECTION 406.2 DESIGN
EQUIPMENT AND APPLIANCES (PER OBC 406.2.9) SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 406.2.9.1 THROUGH 406.2.9.3 AND THE MECHANICAL CODE, INTERNATIONAL FUEL GAS CODE AND NFPA 70 PER SECTION 406.2.9.
SECTION 406.4 PUBLIC PARKING GARAGES
PARKING GARAGES SHALL BE CLASSIFIED AS PUBLIC PARKING GARAGES AND SHALL COMPLY WITH THE PROVISIONS OF SECTIONS 406.2 AND 406.4 AND SHALL BE CLASSIFIED AS EITHER AN OPEN PARKING GARAGE OR AN ENCLOSED PARKING GARAGE. VEHICLE BARRIERS SHALL BE PLACED AS REQUIRED BY SECTION 406.4.2. THE VEHICLE BARRIERS SHALL COMPLY WITH THE LOADING REQUIREMENTS OF SECTION 1607.10.
SECTION 406.5 OPEN PARKING GARAGES
ENCLOSED PARKING GARAGES SHALL COMPLY WITH SECTIONS 406.2, 406.4 (PUBLIC PARKING GARAGES) AND 406.5 (OPEN PARKING GARAGES);
406.5.2 OPENINGS.
NATURAL VENTILATION OPENINGS ON THE EXTERIOR SIDE OF THE STRUCTURE REQUIRED BY 406.5.2 SHALL HAVE UNIFORMLY DISTRIBUTED OPENINGS ON TWO OR MORE SIDES. THE AREA OF SUCH OPENINGS IN EXTERIOR WALLS SHALL BE NOT LESS THAN 20 PERCENT OF THE TOTAL PERIMETER WALL AREA. THE AGGREGATE LENGTH OF THE OPENINGS CONSIDERED TO BE PROVIDING NATURAL VENTILATION SHALL BE NOT LESS THAN 40 PERCENT OF THE PERIMETER. INTERIOR WALLS SHALL BE NOT LESS THAN 20 PERCENT OPEN WITH UNIFORMLY DISTRIBUTED OPENINGS. EXCEPTION: OPENINGS ARE NOT REQUIRED TO BE DISTRIBUTED OVER 40 PERCENT OF THE BUILDING PERIMETER WHERE THE REQUIRED OPENINGS ARE UNIFORMLY DISTRIBUTED OVER TWO OPPOSING SIDES OF THE BUILDING.

GENERAL BUILDING HEIGHT AND AREA - OBC CHAPTER 5
SECTION 502.1 BUILDING ADDRESS IDENTIFICATION: 810 NORTHWOODS BLVD
SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
PROPOSED BUILDING HEIGHT /STORIES:
NEW BUILDING - 21'-8" AVG HEIGHT OF HIGHEST ROOF (14' EVE HEIGHT) / 1 STORY ABOVE GRADE
PROPOSED BUILDING AREA (INSIDE EXTERIOR WALLS):
NEW BUILDING 7,860 SF
BUILDING AREA 7,860 SF (BUILDING AREA ABOVE GRADE PLANE)

SECTION 504 BUILDING HEIGHT AND NUMBER OF STORIES
TABLE 504.3: ALLOWABLE HEIGHT
S-2 USE/TYPE VB: 40' MAXIMUM, NON-SPRINKLERED OK
TABLE 504.4: ALLOWABLE STORIES ABOVE GRADE PLANE
S-2 USE/TYPE IIB: 2 STORIES MAXIMUM, NON-SPRINKLERED OK
SECTION 505 MEZZANINES AND EQUIPMENT PLATFORMS NONE
SECTION 506 BUILDING AREA 7,860 SF
SECTION 506.2: ALLOWABLE BUILDING AREA (SINGLE-STORY)
OPEN AREA: 100% OPEN AREA I = .75 (OBC SECTION 506.3.3)
S-2 USE/TYPE IIB: 13,500 SF TABULAR, NON-SPRINKLERED OK
SECTION 507 UNLIMITED AREA BUILDINGS NOT AN UNLIMITED AREA BUILDING
SECTION 508: MIXED USE AND OCCUPANCY SINGLE OCCUPANCY BUILDING

TYPE OF CONSTRUCTION - OBC CHAPTER 6
TABLE 601: FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS
FOR TYPE VB COMBUSTIBLE CONSTRUCTION
STRUCTURAL FRAME: 0 HOUR
BEARING WALLS: 0 HOUR
NON-BEARING WALLS: 0 HOUR
FLOOR CONSTRUCTION: 0 HOUR
ROOF CONSTRUCTION: 0 HOUR
EXTERIOR WALLS (> 30'): 0 HOURS
INTERIOR FINISHES TO COMPLY WITH TABLE 803.11

FIRE RATED CONSTRUCTION - OBC CHAPTER 7 (NON-SPRINKLERED BUILDING)
NO FIRE RATED CONSTRUCTION REQUIRED

INTERIOR FINISHES - OBC CHAPTER 8
ALL INTERIOR WALL, CEILING AND FLOOR FINISHES WILL MEET ALL OBC CHAPTER 8 REQUIREMENTS.

FIRE PROTECTION SYSTEMS - OBC CHAPTER 9
SECTION 903: AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED
SECTION 906 PORTABLE FIRE EXTINGUISHERS:
SELECTED AND INSTALLED IN ACCORDANCE PER NFPA 10.
SECTION 907 FIRE ALARM & DETECTION SYSTEMS: NOT REQUIRED
SECTION 908 AUTOMATIC SMOKE DETECTION SYSTEM: NOT REQUIRED.

MEANS OF EGRESS - OBC CHAPTER 10
SECTION 1004.1 DESIGN OCCUPANT LOAD
SEE OCCUPANCY SCHEDULE ON LIFE SAFETY SHEETS LS1.1 AND LS1.2
TABLE 1004.5 TABULAR OCCUPANT LOAD (FOR EGRESS)
PARKING GARAGES 7,860 SF @ 200 = 39 OCCUPANTS
DESIGN OCCUPANT LOAD (STORAGE ONLY): 0 OCCUPANTS
REQUESTING THIS BUILDING BE APPROVED WITH NO DESIGN OCCUPANTS AS THE BUILDING IS ONLY USED FOR THE STORAGE OF ROAD SALT FOR PUBLIC WORKS OPERATIONS.

SALT STORAGE BUILDING (UNMANNED)

USE AND OCCUPANCY CLASSIFICATION - OBC CHAPTER 3
SINGLE OCCUPANCY BUILDING
NEW BUILDING - USE GROUP S-2 - COVERED STORAGE OF ROAD SALT ONLY
NO MOTOR-VEHICLE-RELATED OCCUPANCIES
NO MOTOR VEHICLE REPAIR - COVERED STORAGE ONLY
NO FUEL-DISPENSING
ALL HAZARDOUS MATERIALS (LIMITED TO THE FUEL IN VEHICLES) USED AND STORED WITH THE NEW BUILDING ARE BELOW THE MAXIMUM ALLOWABLE QUANTITIES PER TABLE 414.2.5.1.

SPECIAL USE AREAS - OBC CHAPTER 4
NO SPECIAL USE AREAS

GENERAL BUILDING HEIGHT AND AREA - OBC CHAPTER 5
SECTION 502.1 BUILDING ADDRESS IDENTIFICATION: XX NORTHWOODS BLVD
SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
PROPOSED BUILDING HEIGHT /STORIES:
NEW BUILDING - 29'-1" AVG HEIGHT OF HIGHEST ROOF (19'-4" EVE HEIGHT) / 1 STORY ABOVE GRADE
PROPOSED BUILDING AREA (INSIDE EXTERIOR WALLS):
NEW BUILDING 5,600 SF
BUILDING AREA 5,600 SF (BUILDING AREA ABOVE GRADE PLANE)

SECTION 504 BUILDING HEIGHT AND NUMBER OF STORIES
TABLE 504.3: ALLOWABLE HEIGHT
S-2 USE/TYPE VB: 40' MAXIMUM, NON-SPRINKLERED OK
TABLE 504.4: ALLOWABLE STORIES ABOVE GRADE PLANE
S-2 USE/TYPE IIB: 2 STORIES MAXIMUM, NON-SPRINKLERED OK
SECTION 505 MEZZANINES AND EQUIPMENT PLATFORMS NONE
SECTION 506 BUILDING AREA
SECTION 506.2: ALLOWABLE BUILDING AREA (SINGLE-STORY)
OPEN AREA: 100% OPEN AREA I = .75 (OBC SECTION 506.3.3)
S-2 USE/TYPE IIB: 13,500 SF TABULAR, NON-SPRINKLERED OK
SECTION 507 UNLIMITED AREA BUILDINGS NOT AN UNLIMITED AREA BUILDING
SECTION 508: MIXED USE AND OCCUPANCY SINGLE OCCUPANCY BUILDING

TYPE OF CONSTRUCTION - OBC CHAPTER 6
TABLE 601: FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS
FOR TYPE VB COMBUSTIBLE CONSTRUCTION
STRUCTURAL FRAME: 0 HOUR
BEARING WALLS: 0 HOUR
NON-BEARING WALLS: 0 HOUR
FLOOR CONSTRUCTION: 0 HOUR
ROOF CONSTRUCTION: 0 HOUR
EXTERIOR WALLS (> 30'): 0 HOURS
INTERIOR FINISHES TO COMPLY WITH TABLE 803.11

FIRE RATED CONSTRUCTION - OBC CHAPTER 7 (NON-SPRINKLERED BUILDING)
NO FIRE RATED CONSTRUCTION REQUIRED

INTERIOR FINISHES - OBC CHAPTER 8
ALL INTERIOR WALL, CEILING AND FLOOR FINISHES WILL MEET ALL OBC CHAPTER 8 REQUIREMENTS.

FIRE PROTECTION SYSTEMS - OBC CHAPTER 9
SECTION 903: AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED
SECTION 906 PORTABLE FIRE EXTINGUISHERS:
SELECTED AND INSTALLED IN ACCORDANCE PER NFPA 10.
SECTION 907 FIRE ALARM & DETECTION SYSTEMS: NOT REQUIRED
SECTION 908 AUTOMATIC SMOKE DETECTION SYSTEM: NOT REQUIRED.

MEANS OF EGRESS - OBC CHAPTER 10
SECTION 1004.1 DESIGN OCCUPANT LOAD
SEE OCCUPANCY SCHEDULE ON LIFE SAFETY SHEETS LS1.1 AND LS1.2
TABLE 1004.5 TABULAR OCCUPANT LOAD (FOR EGRESS)
PARKING GARAGES 3,307 SF @ 200 = 17 OCCUPANTS
DESIGN OCCUPANT LOAD (STORAGE ONLY): 0 OCCUPANTS
REQUESTING THIS BUILDING BE APPROVED WITH NO DESIGN OCCUPANTS AS THE BUILDING IS ONLY USED FOR THE STORAGE OF ROAD SALT FOR PUBLIC WORKS OPERATIONS.

OHIO BUILDING CODE (OBC) CHAPTERS 11 THROUGH 33 FOR ALL BUILDINGS AND STRUCTURES IN THE PROJECT DEVELOPMENT

ACCESSIBILITY - OBC CHAPTER 11
SEE DETAILS ON DRAWINGS INDICATING COMPLIANCE WITH THIS SECTION RELATED TO ACCESSIBLE ROUTE, ACCESSIBLE ENTRANCES.
ALL BUILDINGS AND FACILITIES SHALL COMPLY WITH THE 2009 ICC A117.1 LISTED IN CHAPTER 11.
PROVIDE SIGNAGE ADJACENT TO TOILET ROOM DOORS IN ACCORDANCE WITH
DOORS SHALL NOT SWING INTO THE REQUIRED CLEAR FLOOR SPACE OF A PLUMBING FIXTURE.
ALL DOORS SHALL COMPLY WITH THE REQUIREMENTS OF THE OBC CHAPTER 11. SEE DOOR SCHEDULE.
SIGNAGE SHALL BE INSTALLED AND COMPLY WITH OBC 1109.2 AND 2902.2
REQUIRED ACCESSIBLE PARKING SPACES PER TABLE 1106.1: TOTAL ACCESSIBLE PARKING SPACES - 1 PER 25. TOTAL SPACES PROVIDED = 40. ACCESSIBLE SPACES REQUIRED = 2. ACCESSIBLE SPACES PROVIDED = 2.

INTERIOR ENVIRONMENT - OBC CHAPTER 12
EVERY ROOM OR SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION PER OBC SECTION 1203.4.

ENERGY CONSERVATION - OBC CHAPTER 13
REFER TO THE ATTACHED COM-CHECK FOR COMPLIANCE WITH THE 2021 IECC THE NEW PUBLIC WORKS FACILITY. THE FUEL ISLAND STRUCTURE, THE COLD STORAGE BUILDING, THE SALT STORAGE BUILDING, AND THE MATERIAL STORAGE BUILDING ARE NOT OCCUPIED STRUCTURES AND ARE NOT HEATED OR COOLED.

EXTERIOR WALLS - OBC CHAPTER 14
ALL EXTERIOR WALLS SHALL COMPLY WITH OBC 1401 THROUGH 1410 AS APPLICABLE.

ROOF ASSEMBLIES - OBC CHAPTER 15
ALL ROOF CONSTRUCTION SHALL COMPLY WITH OBC 1501 THROUGH 1512.
ROOF DRAINAGE IS PER THE OHIO PLUMBING CODE

STRUCTURAL DESIGN - OBC CHAPTER 16
SEE STRUCTURAL DRAWINGS FOR SPECIFIC STRUCTURAL NOTES
TABLE 1604.5: RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES.
EACH BUILDING AND STRUCTURE SHALL BE ASSIGNED A RISK CATEGORY IN ACCORDANCE WITH TABLE 1604.5. WHERE A REFERENCED STANDARD SPECIFIES THAT THE ASSIGNMENT OF A RISK CATEGORY BE IN ACCORDANCE WITH ASCE 7, TABLE 1.5-1, TABLE 1604.5 SHALL BE USED IN LIEU OF ASCE 7, TABLE 1.5-1.
RISK CATEGORY IV (FIRE HOUSE)
(NEED TO REVIEW STRUCTURAL DRAWINGS FOR 1604.5 RISK CATEGORY.)
ALL HANDRAILS AND GRAB BARS SHALL COMPLY WITH THE ICC A117.1 AND SHALL MEET THE DESIGN LOADS OF OBC SECTION 1607.8

SPECIAL INSPECTIONS AND TESTS - OBC CHAPTER 17
THE FOLLOWING SPECIAL INSPECTIONS BY AN APPROVED AGENCY WILL BE PROVIDED BY THE CONTRACTOR TO THE BUILDING DEPARTMENT PER OBC 1704: (NEEDS TO BE DETERMINED)
SOIL
CONCRETE
STEEL
WELDING

GLASS AND GLAZING - OBC CHAPTER 24
ALL DOORS WITH GLAZING SHALL HAVE SAFETY GLAZING PER OBC 2406.4.

ELECTRICAL - OBC CHAPTER 27
ALL ELECTRICAL WORK WILL COMPLY WITH THE REQUIREMENTS OF OBC CHAPTER 27 AND NFPA 70 (NATIONAL ELECTRICAL CODE).

MECHANICAL - OBC CHAPTER 28
ALL MECHANICAL WORK WILL COMPLY WITH THE REQUIREMENTS OF OBC CHAPTER 28.

PLUMBING - OBC CHAPTER 29
PLUMBING FIXTURES PER TABLE 2902.1

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (TABLE 2902.1 2024 OBC)									
	FIXTURES REQUIRED PER TABLE 2902.1				FIXTURES TO BE INSTALLED				ACTUAL FIXTURES TO BE INSTALLED
	OCCUPANCY - B (BUSINESS)	OCCUPANCY - S-1 (STORAGE)	OCCUPANCY - S-2 (STORAGE)	OCCUPANCY - ACC (STORAGE)	B-USE (BUSINESS) 33	S-1-USE (STORAGE) 53	OCCUPANCY - S-2 (STORAGE) 174	OCCUPANCY - ACC (STORAGE) 3	
WATER CLOSET	1/25 1/50	1/100	1/100	1/100	MALE/3 FEMALE/2 UNISEX/1	UNISEX/2	-	-	8
URINALS	1/25 1/50	N/A	N/A	N/A	MALE/2	-	-	-	2
LAVATORY	1/80	1/100	1/100	1/100	MALE/3 FEMALE/2 UNISEX/1	UNISEX/2	-	-	8
DRINKING FNTN	1/100	1/1,000	1/1,000	1/1,000	2	1	-	-	3
SERVICE SINK	1	1	1	1	1	-	-	-	1

PER SECTION 410 IN THE OHIO PLUMBING CODE NO DRINKING FOUNTAIN IS REQUIRED WHERE BOTTLED WATER COOLERS ARE PROVIDED. OWNER CHOOSES TO PROVIDE (1) DRINKING FOUNTAIN & (4) BOTTLE FILL STATIONS AS SHOWN ON PLANS.

ELEVATORS - OBC CHAPTER 30 NOT APPLICABLE - NO ELEVATORS
ALL ELEVATOR WORK WILL COMPLY WITH THE APPLICABLE REQUIREMENT OF OBC CHAPTER 30.
EXISTING BUILDINGS - OBC CHAPTER 34 NOT APPLICABLE - NO EXISTING BUILDINGS

NOTE TO ALL CONTRACTORS: SEPARATE PLAN REVIEW & PERMITS REQUIRED FOR MECHANICAL, ELECTRICAL & PLUMBING AND FIRE PROTECTION & FIRE ALARM SYSTEMS WITH PLANS PREPARED BY LICENSED DESIGNERS & ENGINEERS.

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CHRISTOPHER R. WIDENER
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CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

LIFE SAFETY NOTES

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

LS1.3
4 OF 112

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2024 OHIO BUILDING CODE & OTHER RELEVANT CODES

Vandalia Public Works Hazardous Materials Analysis

Item	OBC Regulated Hazard	Material (Used or Stored)		Class	Volume	Units		Location in Building	Comments
1	Flammable Gas	Acetylene		Gaseous - Compressed	125	Cubic Feet		Located in Approved Storage	
2	Flammable Gas	Argon		Gaseous - Compressed	125	Cubic Feet		Located in Approved Storage	
3	Flammable Gas	Oxygen		Gaseous - Compressed	125	Cubic Feet		Located in Approved Storage	
				Total Stored/Used:	**375**	**Cubic Feet**			
Flammable Gas (Gaseous) (Tablur: 1,000 Cubic Feet)				**OBC Allowable Quantity:**	**3,000**	**Cubic Feet**			(See Notes d & e below)
				Under Allowable Quanity:	2,625	Cubic Feet	OK		
4	Flammable Liquid	Brake Cleaner		Class 1 Flammable aerosols	1	Gal			
				Total Stored/Used:	**1**				
Flammable Liquid Class 1 (1A) (Tabular: 30 Gal)				**OBC Allowable Quantity:**	90	Gallons			(See Notes d & e below)
				Under Allowable Quanity:	89	Cubic Feet	OK		
5	Flammable Liquid	Paint Thinner		Class 3 - Flammable Liquid	1	Gal			
6	Flammable Liquid	Mineral Spirits		Class 3 - Flammable Liquid	1	Gal			
7	Flammable Liquid	NAPA windshield washer fluid		Class 3 - Flammable and combustible liquid 459 5CFGRa l173.120					
				Total Stored/Used:	**57**	**Gallons**			
Flammable Liquid Class 2 or 3 (1B & 1C) (Tabular: 120 Gal)				**OBC Allowable Quantity:**	**360**	**Gallons**			(See Notes d & e below)
				Under Allowable Quanity:	303	Cubic Feet	OK		
8	Combustible Liquid	SAFETY-KLEEN ODORLESS MINERAL SPIRITS SOLVENT		Class IIIA					Flash Point 43.5 °C (110 °F Minimum)
9	Combustible Liquid	Safety- Kleen Premium gold solvent		Class IIIA	80	Gal			Flash Point 148F/ Is this really haz mat??
				Total Stored/Used:	80	Gallons			
Combustible Liquid Class IIIA (Tabular: 330 Gal)				**OBC Allowable Quantity:**	990	Gallons			(See Notes d & e below)
				Under Allowable Quanity:	910	Cubic Feet	OK		
MATERIALS LISTS/INFORMATION PROVIDED BY CITY OF VANDALIA									
	Not Regulated as Hazardous MatHeyrdiarlaulic Oil	Hydraulic Oil		Flash Point [Method]: >150C	110	gal		RM 136	
	Not Regulated as Hazardous MatHeyrdiarlaulic Oil (Shell Tellus S2 V 32)	Hydraulic Oil (Shell Tellus S2 V 32)		Flash Point [Method]: >150C	55	gal		RM 136	No water suppression
	Not Regulated as Hazardous MatHeyrdiarlaulic Oil (Hyken 052)	Hydraulic Oil (Hyken 052)		Flash Point [Method]: >150C	22	gal		RM 136	
	Not Regulated as Hazardous MatHeyrdiarlaulic Oil (Bobcat oil 15 Special)	Hydraulic Oil (Bobcat oil 12 Special)		Flash Point [Method]: >150C	10	gal		RM 136	
	COMBUSTABLE LIQUID	Safety- Kleen Premium gold solvent			40	gal		RM 136	Combustible
	Not Regulated as Hazardous MatTeirreia slealant	Tire Sealant		Acute Toxicity Category 4 - Flash Point [Method1]:g >a1l 00C				RM 136	
	Not Regulated as Hazardous MatHeeriaavly duty diesel engine oil	Heavy Duty Diesel Engine Oil			240	gal		RM136	
	Not Regulated as Hazardous MatMeoritaolr Oil Starfire Syn.	Motor Oil Starfire Syn.			55	gal		RM 136	
	Not Regulated as Hazardous MatTerarinaslmission oil (Shell Spirax)	Transmission Oil (Shell Spirax)			55	gal		RM 136	
	Not Regulated as Hazardous MatHeyrdiarlaulic/ transmission fluid	Hydraulic/ Transmission Fluid			55	gal		RM 136	
	Not Regulated as Hazardous MatCeorioallant/ Antifreeze	Coolant/ Antifreeze		Acute oral toxicant: Category 4.	55	gal		RM 136	Flammability 1
	Not Regulated as Hazardous Mat2e1r9ia/l synForce Green Grease	219/ synForce Green Grease			110	lbs		RM 136	
	FLAMMABLE LIQUID	NAPA Windshield Washer Fluid		Class 3 - Flammable and combustible liquid 459 5CFFRla 1sh7 3P.1o2in0t [Method]: 32 C (89F)				RM 136	No water suppression; Flammable liquid and vapor; Cat 3
	Not Regulated as Hazardous MatCeEriRaTIOP 80W90	CERTOP 80W90			20	gal		RM 136	Flammability 1 - Petroleum Distillates
	Not Regulated as Hazardous MatSeizrizalel RTU	Sizzle RUT			100	gal		RM 136	
	Not Regulated as Hazardous MatCeorinasalt remover	Consalt Remover			55	gal		RM 136	Corrosive - Acute Toxicity – Oral / Acute Health Hazard
	Not Regulated as Hazardous MatSetraiya Iwet Wash	Stay Wet Wash			55	gal		RM 136	Water absorbent granule/fertiliser
	Not Regulated as Hazardous Mat5eWria2l0	5W20		Not Flammable	55	Flash Point [Method]: >180C		RM 136	Not classified as hazardous according to 29 CFR 1910.1200 (2012).
	Not Regulated as Hazardous Mat5eWria3l0	5W30		Not Flammable	55	Flash Point [Method]: >180C		RM 136	Not classified as hazardous according to 29 CFR 1910.1200 (2012).
	Not Regulated as Hazardous MatEeLrCia Cl oolant (SAME AS COOLANT ANTIFREEZE ABOVE ?) Acute oral toxicant: Category 4.	ELC Coolant			55	gal		RM 136	
	Not Regulated as Hazardous MatGearisa Vl ehicle Coolant (SAME AS ABOVE)	Gas Vehicle Coolant		Acute oral toxicant: Category 4.	55	gal		RM 136	
	-	Worst case gallon of each in room 126, Sign Shop							
	Not Regulated as Hazardous Mat1e.hrioaul sehold cleaners [windex]	1.House Cleaners (Windex)		Aspiration Hazard Category 2	1	gal			
	FLAMMABLE LIQUID	2.Brake cleaner		Flammable aerosols Category 1	1	gal	Flash Point < 0 °F (< -17.8 °C)		
	FLAMMABLE LIQUID	3.Mineral spirits		Flammable Liquids Category 3 - Aspiration Haza1rdg aClategory 1			Flash Point <= 101 °F		
	FLAMMABLE LIQUID	4.Paint thinner		Flammable Liquids Category 3 - Aspiration Haza1rdg aClategory 1			Flash Point 105 °F		
	-	Room 135, Tool room.							
	COMBUSTABLE LIQUID	Safety Kleen Parts wash 40 gal. drum			40	gal			
	Not Regulated as Hazardous MatRe1r3ia4la Refrigerant 1 30lb cylinder	R134a Refrigerant 1 30lb Cylinder		Non-flammable	30	lb			
	FLAMMABLE GAS	Argon 1 cylinder 125 Cu/ft			125	cu ft			
	FLAMMABLE GAS	Acetylene 1 cylinder 125 Cu/ft			125	cu ft			
	FLAMMABLE GAS	Oxygen 1 cylinder 125 Cu/ft			125	cu ft			
				Liquid can cause burns similar to frostbite					

Table Notes:
OBC Table 307.1(1) Note d Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.
OBC Table 307.1(1) Note e - Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.
OBC Table 307.1(1) Note f.Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

COMBUSTIBLE LIQUID. A liquid having a closed cup flash point at or above 100°F (38°C). Combustible liquids shall be subdivided as follows:
The category of combustible liquids does not include compressed gases or cryogenic fluids or liquids that do not have a fire point when tested in accordance with ASTM D92.
Class II. Liquids having a closed cup flash point at or above 100°F (38°C) and below 140°F (60°C).
Class IIIA. Liquids having a closed cup flash point at or above 140°F (60°C) and below 200°F (93°C).
Class IIIB. Liquids having a closed cup flash point at or above 200°F (93°C).

FLAMMABLE GAS. A material that is a gas at 68°F (20°C) or less at 14.7 pounds per square inch atmosphere (psia) (101 kPa) of pressure [a material that has a boiling point of 68°F (20°C) or less at 14.7 psia (101 kPa)], which also meets one of the following:
1.Is ignitable at 14.7 psia (101 kPa) when in a mixture of 13 percent or less by volume with air.
2.Has a flammable range at 14.7 psia (101 kPa) with air of at least 12 percent, regardless of the lower limit.
The limits specified shall be determined at 14.7 psi (101 kPa) of pressure and a temperature of 68°F (20°C) in accordance with ASTM E681.
FLAMMABLE LIQUEFIED GAS. A liquefied compressed gas which, under a charged pressure, is partially liquid at a temperature of 68°F (20°C) and which is flammable.
FLAMMABLE LIQUID. A liquid having a closed cup flash point below 100°F (38°C). Flammable liquids are further categorized into a group known as Class I liquids. The Class I category is subdivided as follows:
Class IA. Liquids having a flash point below 73°F (23°C) and a boiling point below 100°F (38°C).
Class IB. Liquids having a flash point below 73°F (23°C) and a boiling point at or above 100°F (38°C).
Class IC. Liquids having a flash point at or above 73°F (23°C) and below 100°F (38°C). The category of flammable liquids does not include compressed gases or cryogenic fluids, or liquids that do not have a fire point when tested in accordance with ASTM D92.

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vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
80 NORTHWOODS BLVD
VANDALIA, OHIO 45377
HAZARDOUS MATERIALS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

LS1.4
5 OF 112

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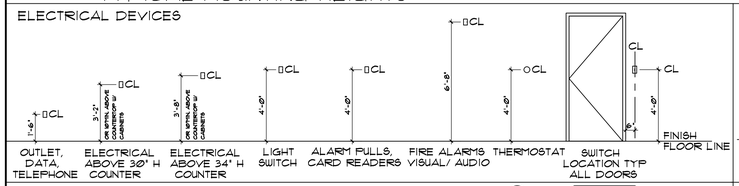
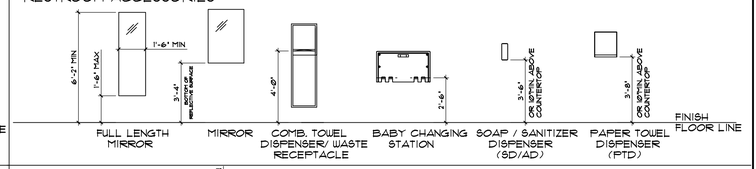
TYPICAL MOUNTING HEIGHTS

ELECTRICAL DEVICES



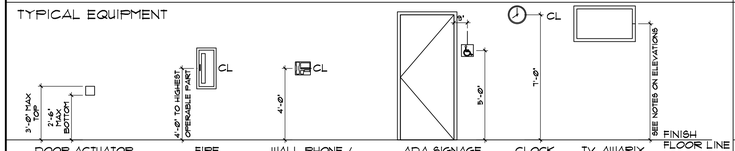
OUTLET, DATA, TELEPHONE | ELECTRICAL ABOVE 30" H COUNTER | ELECTRICAL ABOVE 34" H COUNTER | LIGHT SWITCH | ALARM PULLS, CARD READERS | FIRE ALARMS VISUAL/ AUDIO | THERMOSTAT | SWITCH LOCATION TYP ALL DOORS

RESTROOM ACCESSORIES

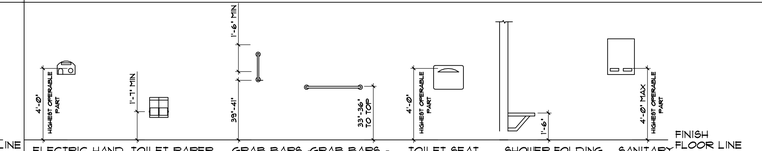


FULL LENGTH MIRROR | MIRROR | COMB. TOWEL DISPENSER/ WASTE RECEPTACLE | BABY CHANGING STATION | SOAP / SANITIZER DISPENSER (SD/AD) | PAPER TOWEL DISPENSER (PTD)

TYPICAL EQUIPMENT

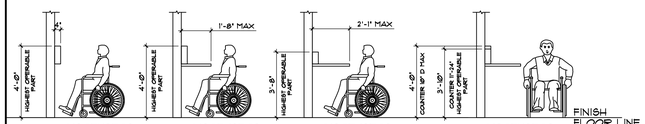


DOOR ACTUATOR PUSH PLATE | FIRE EXTINGUISHER CABINET | WALL PHONE / INTERCOM IN ALL INSTANCES COUNTER HEIGHT IS 34" MAX | ADA SIGNAGE | CLOCK | TV, AWAIRIX MONITOR, ETC.

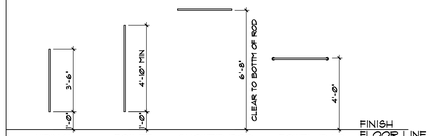


ELECTRIC HAND DRYER | TOILET PAPER DISPENSER (TPD) | GRAB BARS VERTICAL | GRAB BARS - HORIZONTAL | TOILET SEAT COVER DISPENSER | SHOWER FOLDING SEAT | SANITARY NAPKIN DISPENSER

GENERAL ACCESSIBLE MOUNTING HEIGHTS

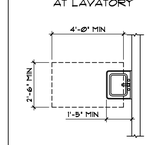


DISPENSERS UNOBSTRUCTED FORWARD REACH | DISPENSERS OVER COUNTER | DISPENSERS OVER COUNTER | DISPENSERS OVER COUNTER

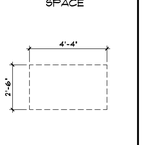


URINAL PARTITION | TOILET PARTITION | SHOWER ROD | TOWEL BAR

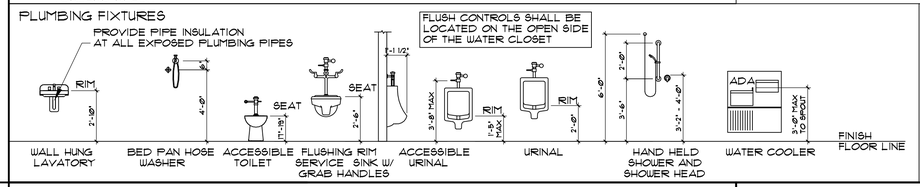
CLEAR FLOOR SPACE AT LAVATORY



SIZE OF CLEAR FLOOR SPACE

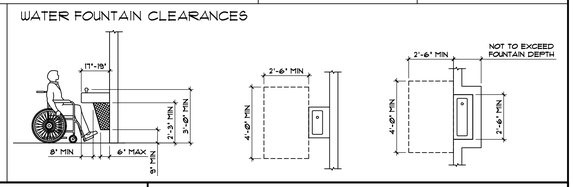


PLUMBING FIXTURES



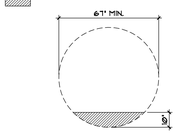
WALL HUNG LAVATORY | BED PAN HOSE WASHER | ACCESSIBLE TOILET | FLUSHING RIM SERVICE SINK W/ GRAB HANDLES | ACCESSIBLE URINAL | URINAL | HAND HELD SHOWER AND SHOWER HEAD | WATER COOLER

WATER FOUNTAIN CLEARANCES

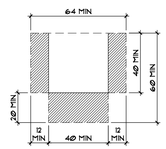


TYPICAL RESTROOM CLEARANCES

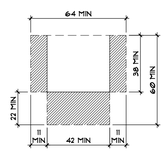
▨ = PERMITTED AREA OF OVERLAP



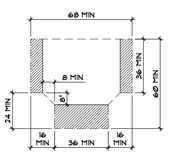
67" MINIMUM TURNING RADIUS



T-SHAPED TURNING SPACE - OPTION 3



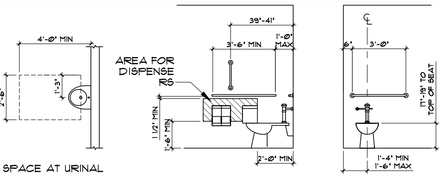
T-SHAPED TURNING SPACE - OPTION 2



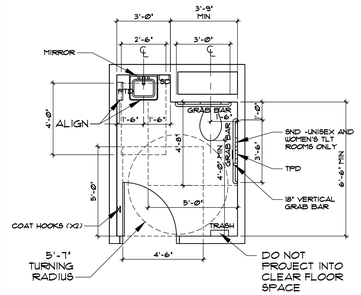
T-SHAPED TURNING SPACE - OPTION 1

TYPICAL RESTROOM LAYOUTS & CLEARANCES

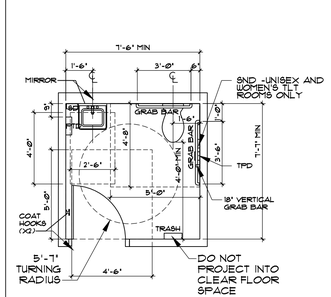
REFER TO TYPICAL MOUNTING HEIGHTS FOR VERTICAL DIMENSIONS



CLEAR FLOOR SPACE AT URINAL

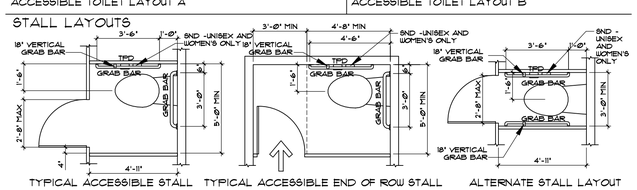


ACCESSIBLE TOILET LAYOUT A



ACCESSIBLE TOILET LAYOUT B

STALL LAYOUTS



TYPICAL ACCESSIBLE STALL | TYPICAL ACCESSIBLE END OF ROW STALL | ALTERNATE STALL LAYOUT

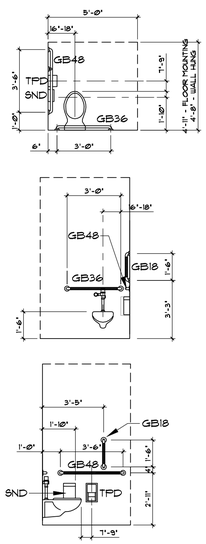
TYPICAL ACCESSIBLE ELEVATIONS

LEGEND

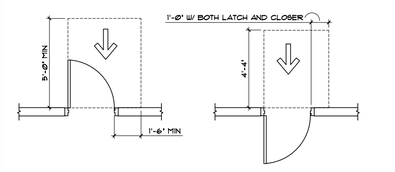
GB18 -GRAB BAR -18" LONG
GB36 -GRAB BAR -36" LONG
GB48 -GRAB BAR -48" LONG

TPD -TOILET PAPER DISPENSER

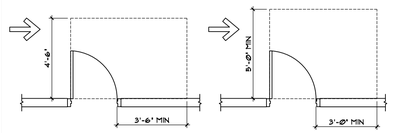
8ND -SANITARY NAPKIN DISPENSER



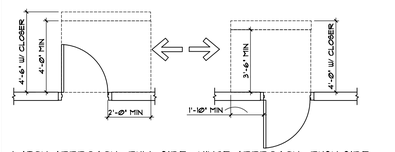
DOOR CLEARANCES



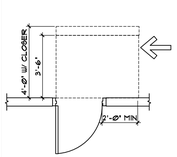
FRONT APPROACH -PULL SIDE | FRONT APPROACH -PUSH SIDE



HINGE APPROACH -PULL SIDE | HINGE APPROACH -PULL SIDE



LATCH APPROACH -PULL SIDE | HINGE APPROACH -PUSH SIDE



LATCH APPROACH -PUSH SIDE

NOTE: TO ALL CONTRACTORS: IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO PROVIDE & INSTALL ALL LABOR & MATERIALS IN ALL LOCATIONS TO ENSURE THE MEASUREMENTS ON THIS SHEET ARE ADHERED TO IN THE PERFORMANCE OF WORK ON THIS PROJECT. WHETHER EACH DIMENSION SHOWN ON THIS SHEET ARE INDICATED OR NOT ON ALL DIMENSIONED PLANS CONTAINED HEREIN.

15A
17A
16A
1A

ALL WORK ON THIS SHEET BY UNLESS OTHERWISE NOTED.

1 / G1.1 ACCESSIBILITY DETAILS
SCALE: N.T.S.

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810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
GENERAL ACCESSIBILITY INFORMATION

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

G1.1
6 OF 112

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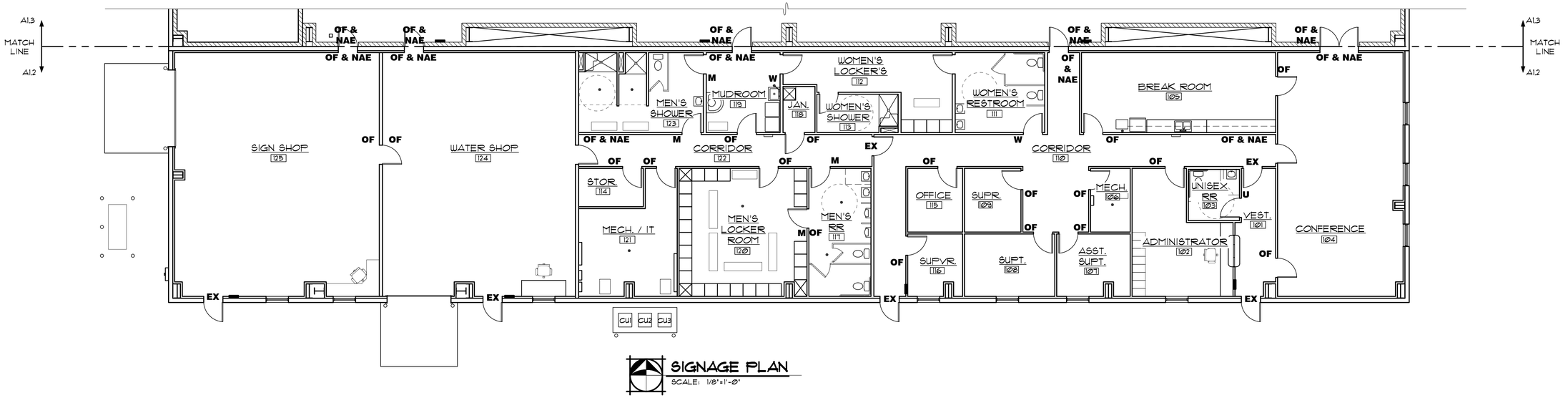
GENERAL NOTES:

A. SIGNAGE PER 2024 OBC SECTION 1009.9 (SIGNAGE), 1009.10 (DIRECTIONAL SIGNAGE), SECTION 1112 (SIGNAGE), & SECTION 2902.4 (SIGNAGE)

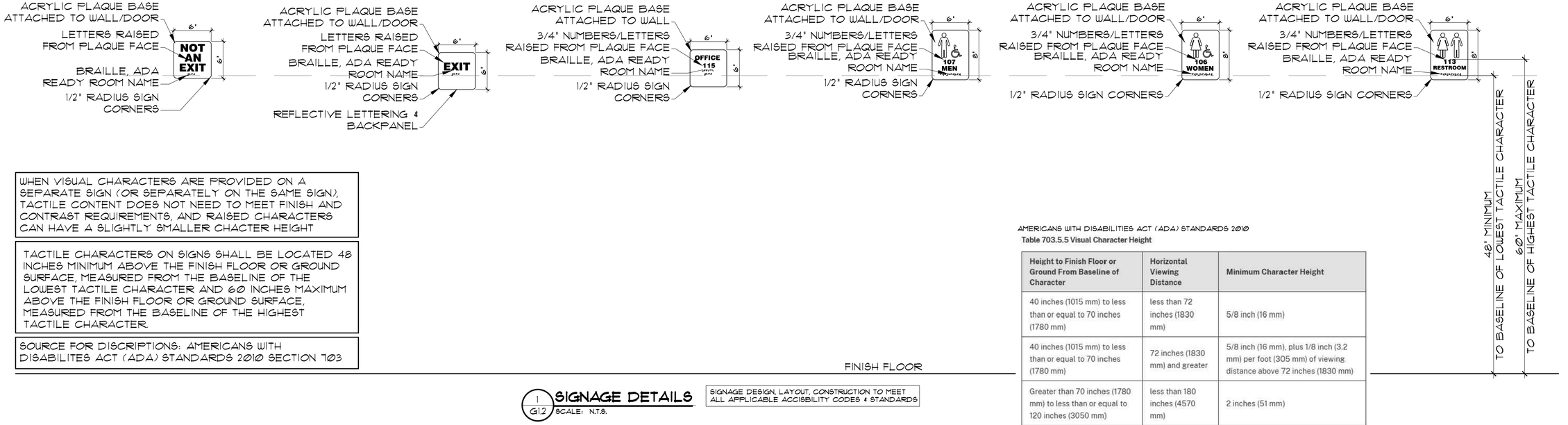


SIGNAGE PLAN

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

SIGNAGE SYMBOLS

NOT AND EXIT SIGN - **NAE**	EXIT SIGN - **EX**	ROOM DESIGNATION SIGN - **OF**	MEN'S RESTROOM SIGN - **M**	WOMEN'S RESTROOM SIGN - **W**	UNISEX RESTROOM SIGN - **U**



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SOURCE FOR DISCRIPTIONS: AMERICANS WITH DISABILITES ACT (ADA) STANDARDS 2010 SECTION 703

SIGNAGE DETAILS

1 / G1.2

SCALE: N.T.S.

SIGNAGE DESIGN, LAYOUT, CONSTRUCTION TO MEET ALL APPLICABLE ACCISBILITY CODES & STANDARDS

AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS 2010

Table 703.5.5 Visual Character Height

Height to Finish Floor or Ground From Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
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LIFE SAFETY SIGNAGE PLAN

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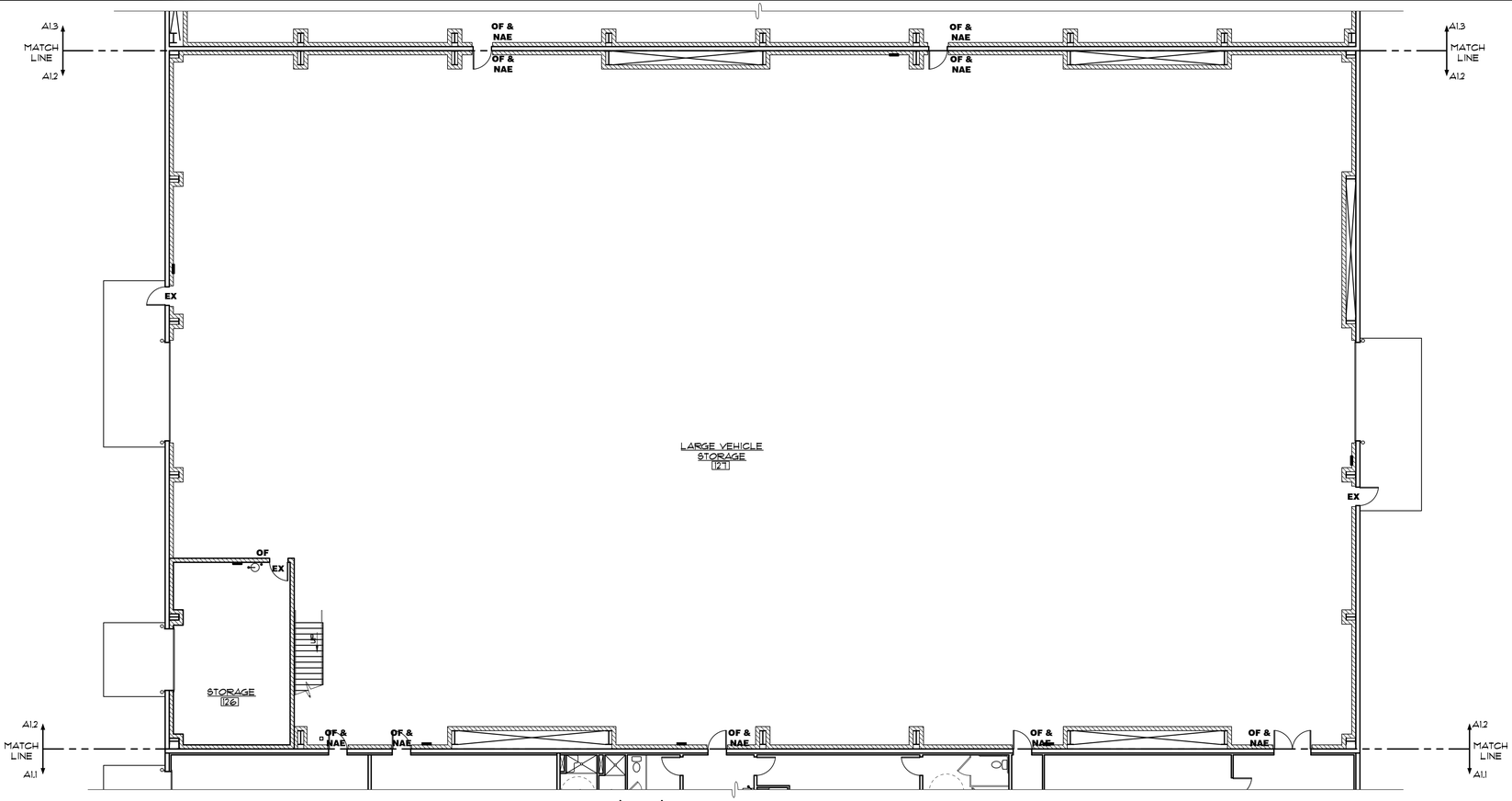

SIGNAGE PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. SIGNAGE PER 2024 OBC SECTION, 1009.9 (SIGNAGE), 1009.10 (DIRECTIONAL SIGNAGE), SECTION 1112 (SIGNAGE), & SECTION 2902.4 (SIGNAGE)

AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS 2010

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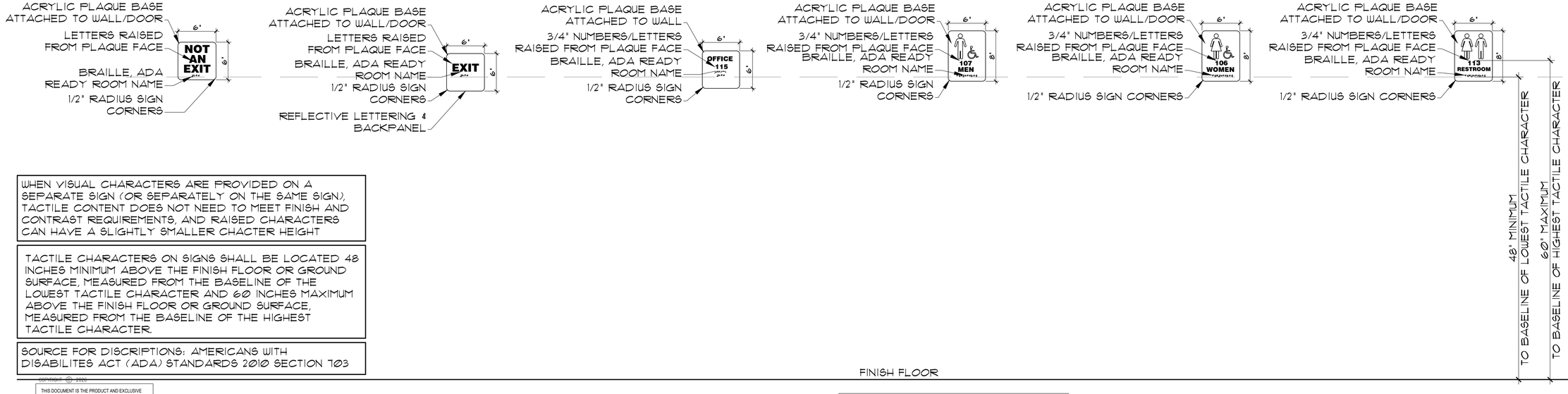
SIGNAGE SYMBOLS

NOT AND EXIT SIGN - **NAE**	EXIT SIGN - **EX**	ROOM DESIGNATION SIGN - **OF**	MEN'S RESTROOM SIGN - **M**	WOMEN'S RESTROOM SIGN - **W**	UNISEX RESTROOM SIGN - **U**



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SOURCE FOR DISCRIPTIONS: AMERICANS WITH DISABILITES ACT (ADA) STANDARDS 2010 SECTION 703

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1 G1.3 SIGNAGE DETAILS
SCALE: N.T.S.

SIGNAGE DESIGN, LAYOUT, CONSTRUCTION TO MEET ALL APPLICABLE ACCESSIBILITY CODES & STANDARDS AND CHAPTER 10 & CHAPTER 11 OF THE OHIO BUILDING CODE

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LIFE SAFETY SIGNAGE PLAN

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G1.3
8 OF 112

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GENERAL NOTES:

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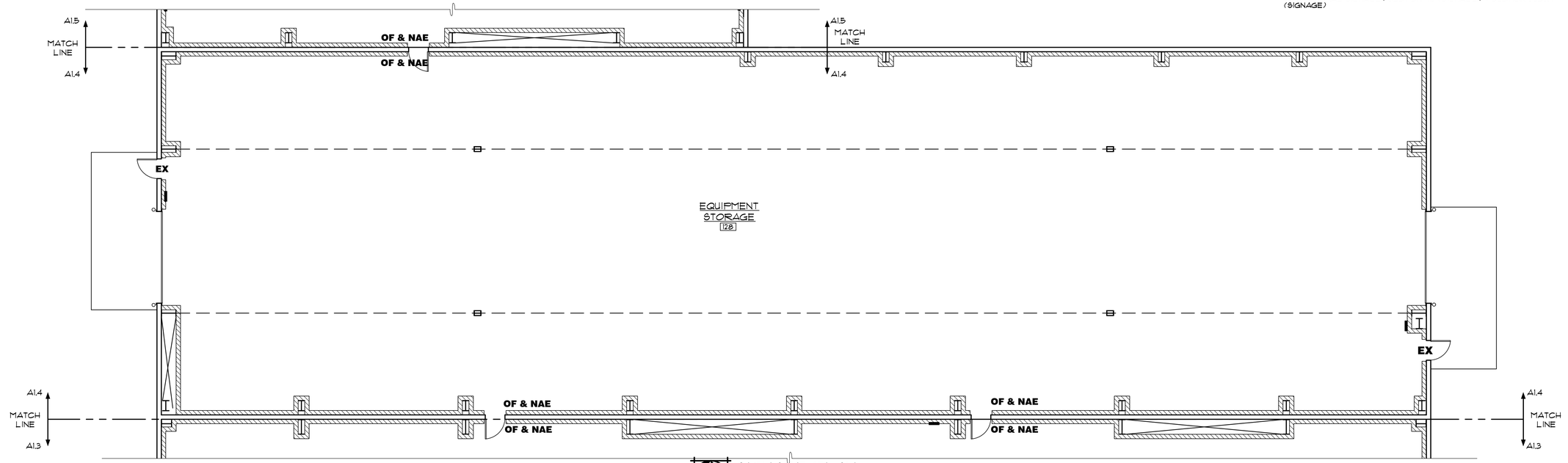
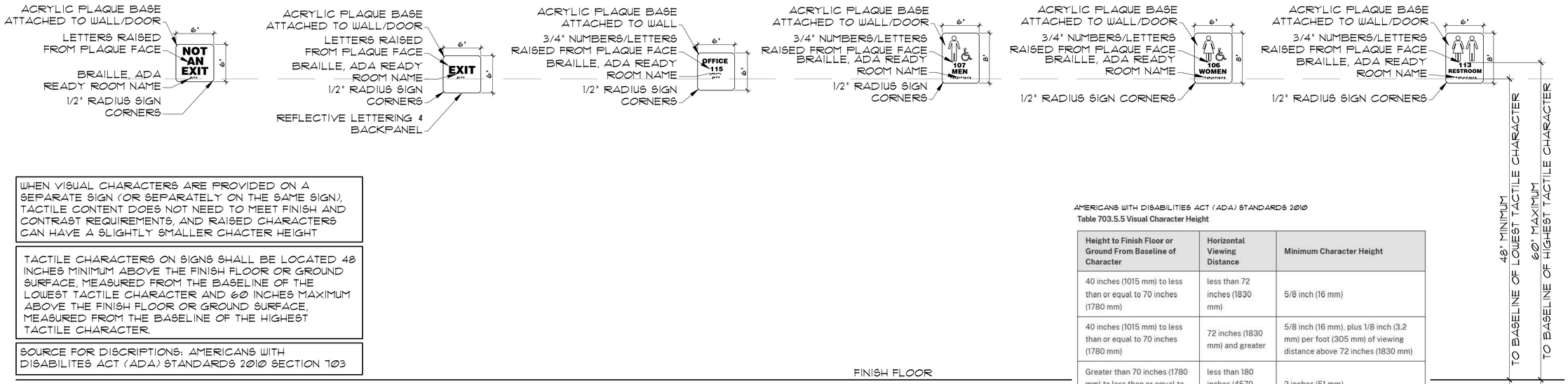


SIGNAGE PLAN

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

SIGNAGE SYMBOLS

NOT AND EXIT SIGN - **NAE**	EXIT SIGN - **EX**	ROOM DESIGNATION SIGN - **OF**	MEN'S RESTROOM SIGN - **M**	WOMEN'S RESTROOM SIGN - **W**	UNISEX RESTROOM SIGN - **U**



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SOURCE FOR DISCRIPTIONS: AMERICANS WITH DISABILITES ACT (ADA) STANDARDS 2010 SECTION 703

1 G1.4 SIGNAGE DETAILS

SCALE: N.T.S.

SIGNAGE DESIGN, LAYOUT, CONSTRUCTION TO MEET ALL APPLICABLE ACCESSIBILITY CODES & STANDARDS AND CHAPTER 10 & CHAPTER 11 OF THE OHIO BUILDING CODE

AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS 2010

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9 OF 112

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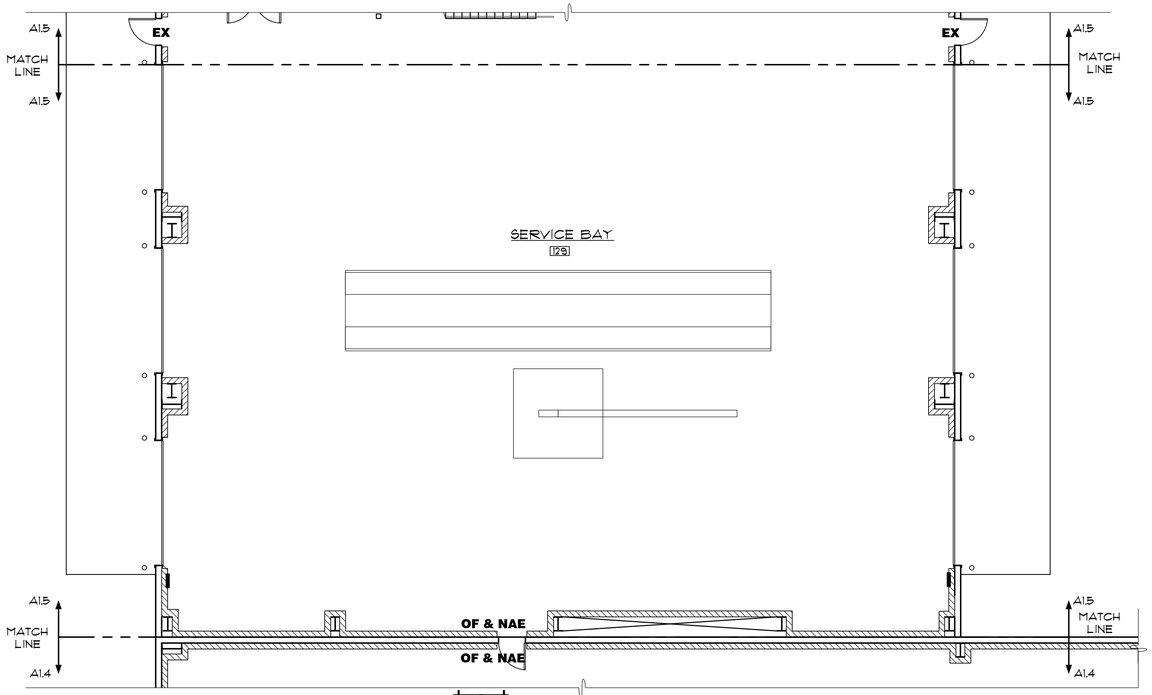

SIGNAGE PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

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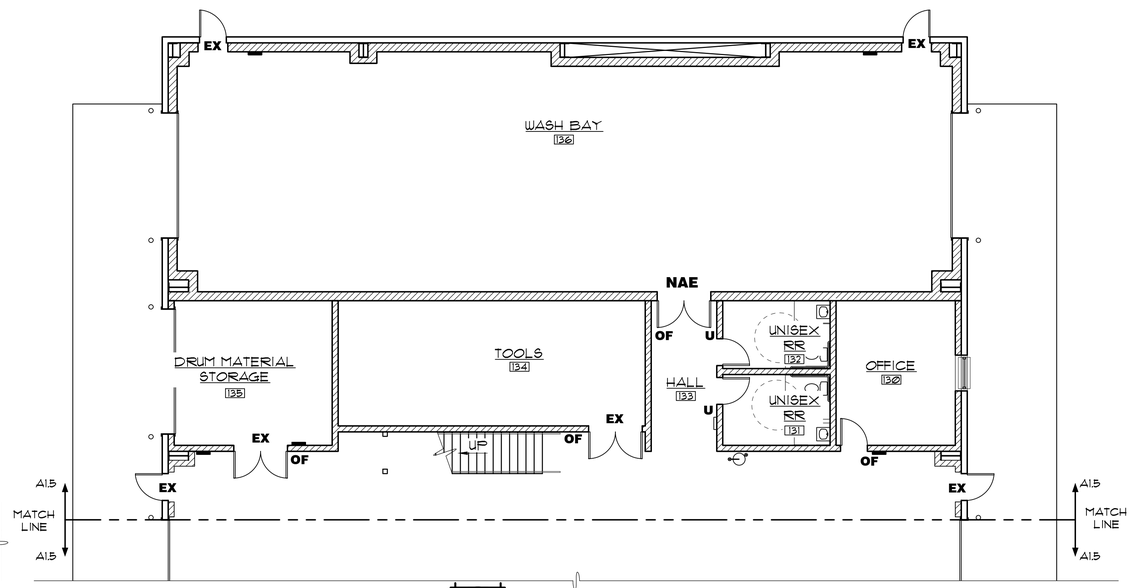

SIGNAGE PLAN
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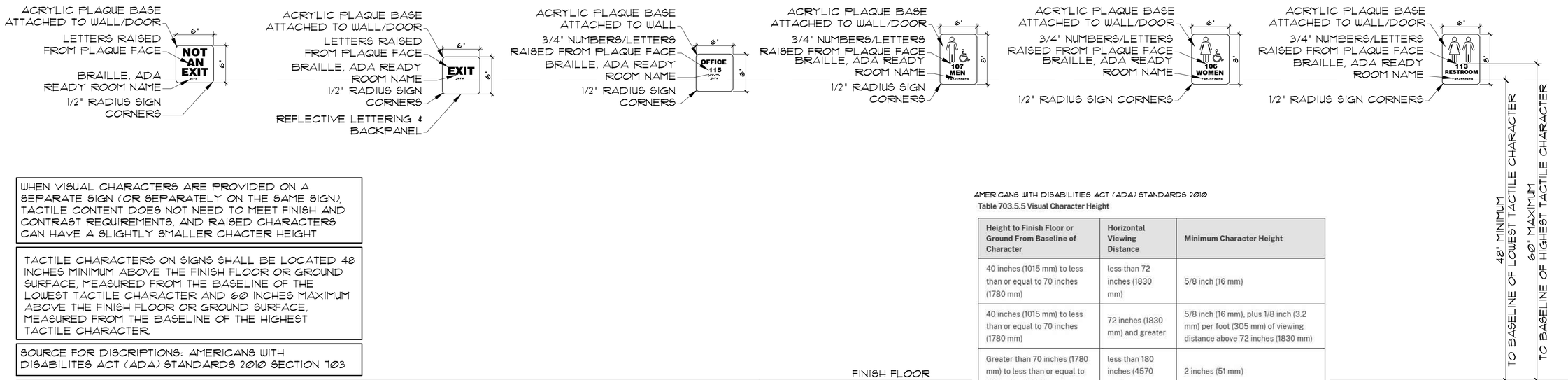

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SOURCE FOR DISCRIPTIONS: AMERICANS WITH DISABILITES ACT (ADA) STANDARDS 2010 SECTION 703

AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS 2010

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1 G1.5 SIGNAGE DETAILS
SCALE: N.T.S.

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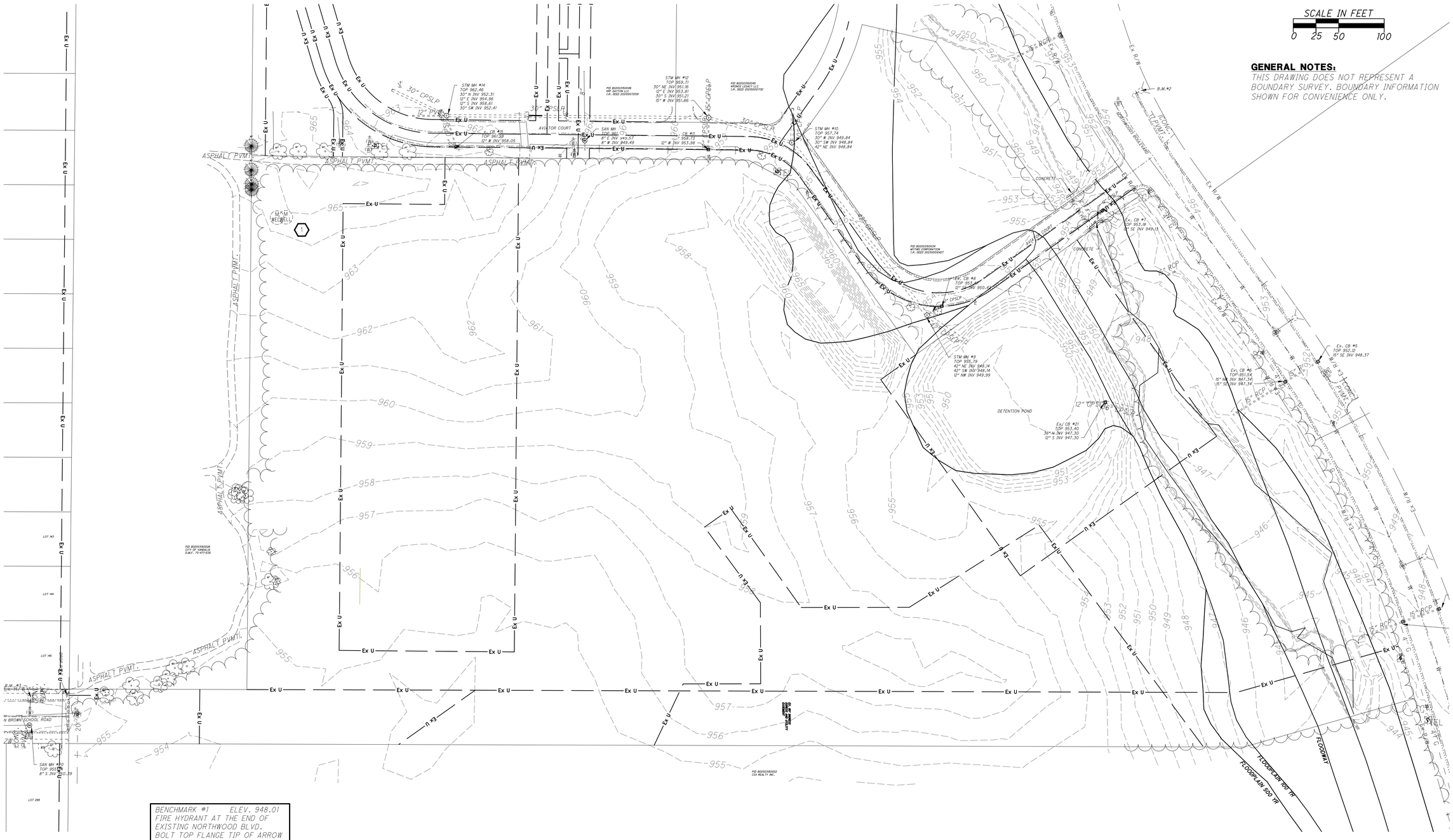
10 OF 112

P:\PROJECTS\2314 Vandalia Public Works\DWGS\Sheets\G1-2 Through G1-5 Vandalia_Public_Works.dwg 4/30/2026 10:13:57 AM, AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), 1:1



BENCHMARK #1	ELEV. 948.01 FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW
BENCHMARK #2	ELEV. 956.50 FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW
BENCHMARK #3	ELEV. 957.84 FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.

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CODED NOTES:

(6) DO NOT DISTURB EXISTING MONITORING WELLS.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
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WDC GROUP

REVISIONS:

STATE OF OHIO
MICHAEL LEMIS SEEGER
E-81748
REGISTERED PROFESSIONAL ENGINEER

vandalia ohio
small city. big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

EXISTING CONDITIONS PLAN

PROJECT NO.:	23014
DRAWN BY:	JMK
DATE:	05-18-2026
CHECKED BY:	MLS

C1
11 OF 112

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.
9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C1D.

CODED NOTES:

14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. NEW REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.

GENERAL NOTES:

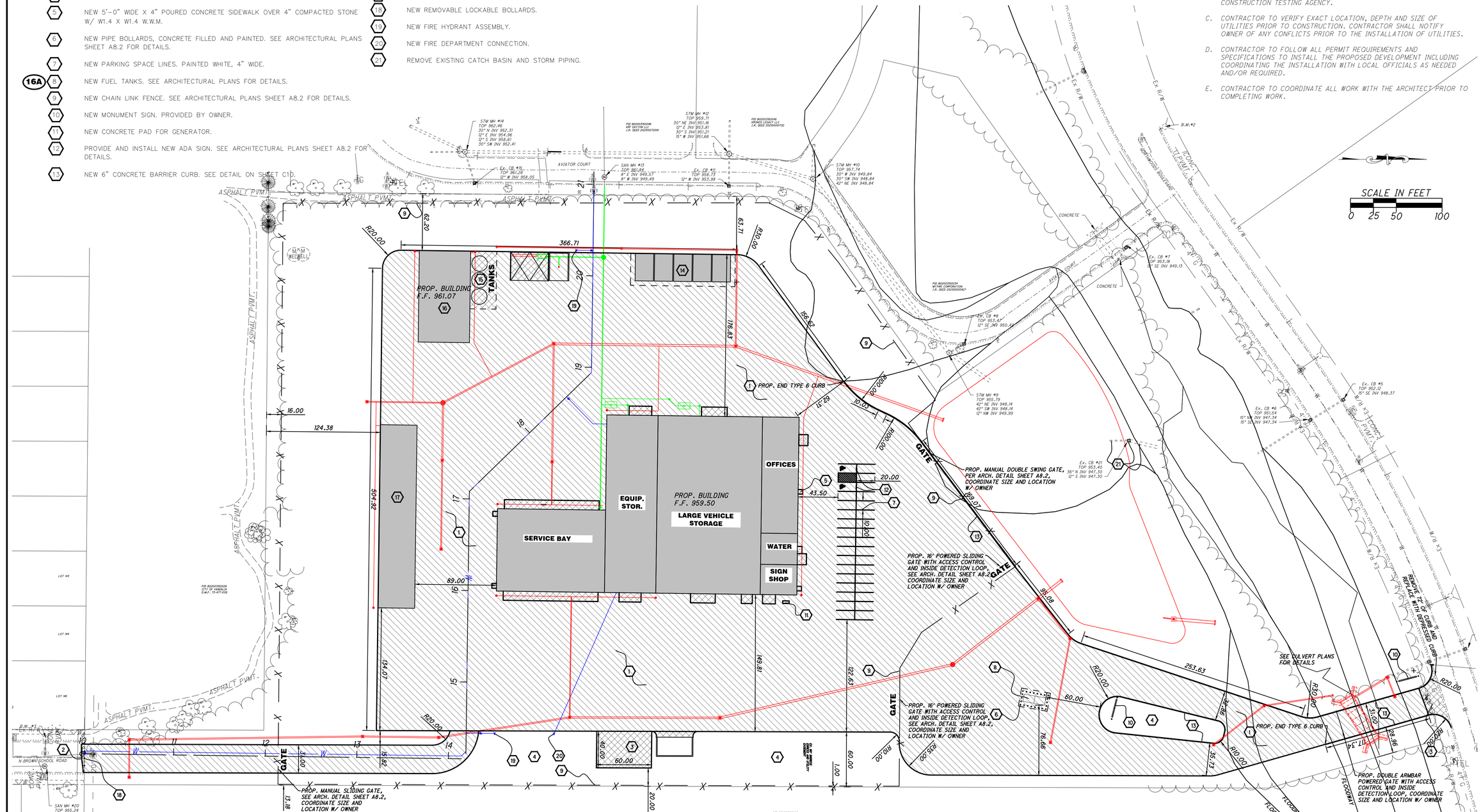
A. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING CONFIGURATION AND DIMENSIONS.

B. CONTRACTOR SHALL REVIEW THE SOIL BORINGS AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER. ALL CONSTRUCTION WORK ASSOCIATED WITH THE FOOTER, FOUNDATION, BUILDING SLAB AND BUILDING PAD SHALL BE INSPECTED AND APPROVED BY THE CONSTRUCTION TESTING AGENCY.

C. CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

D. CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED DEVELOPMENT INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

E. CONTRACTOR TO COORDINATE ALL WORK WITH THE ARCHITECT PRIOR TO COMPLETING WORK.


SCALE IN FEET
0 25 50 100
PROP. BUILDING F.F. 961.07
TANKS
PROP. BUILDING F.F. 959.50
LARGE VEHICLE STORAGE
EQUIP. STOR.
SERVICE BAY
OFFICES
WATER
SIGN SHOP
PROP. END TYPE 6 CURB
PROP. MANUAL SLIDING GATE, SEE ARCH. DETAIL SHEET A8.2, COORDINATE SIZE AND LOCATION W/ OWNER
PROP. MANUAL DOUBLE SWING GATE, PER ARCH. DETAIL SHEET A8.2, COORDINATE SIZE AND LOCATION W/ OWNER
PROP. 16' POWERED SLIDING GATE WITH ACCESS CONTROL AND INSIDE DETECTION LOOP, SEE ARCH. DETAIL SHEET A8.2, COORDINATE SIZE AND LOCATION W/ OWNER
PROP. DOUBLE ARMBAR POWERED GATE WITH ACCESS CONTROL AND INSIDE DETECTION LOOP, COORDINATE SIZE AND LOCATION W/ OWNER
REMOVE ±71 LF OF CURB AND REPLACE WITH DEPRESSED CURB
SEE CULVERT PLANS FOR DETAILS
ASPHALT PVMT.
CONCRETE
AVIATOR COURT
N BROWN SCHOOL ROAD
NORTHMOOR BOULEVARD
FLOODWAY
FLOODPLAIN 500 YR
FLOODPLAIN 100 YR
STM MH #14 TOP 962.46 30" N INV 952.31 12" E INV 954.96 12" S INV 958.61 30" SW INV 952.41
STM MH #12 TOP 959.71 30" NE INV 951.16 12" E INV 953.81 30" S INV 951.21 15" W INV 951.66
STM MH #10 TOP 957.74 30" W INV 949.84 30" SW INV 948.84 42" NE INV 948.84
STM MH #9 TOP 955.79 42" NE INV 948.14 42" SW INV 948.14 12" NW INV 949.99
SAN MH #13 TOP 960.84 8" E INV 949.57 8" W INV 949.49
SAN MH #20 TOP 955.24 8" S INV 950.39
Ex. CB #15 TOP 961.28 12" W INV 958.05
Ex. CB #11 TOP 958.73 12" W INV 953.98
Ex. CB #8 TOP 953.42 12" SE INV 950.76
Ex. CB #7 TOP 953.18 15" SE INV 949.13
Ex. CB #5 TOP 952.12 15" SE INV 948.37
Ex. CB #6 TOP 951.54 15" NW INV 947.14 15" SE INV 947.34
Ex. CB #21 TOP 953.40 36" N INV 947.30 12" S INV 947.30
B.M.#1 TOP OF CURB INLET ELEV. 961.00
B.M.#2 TOP OF CURB INLET ELEV. 952.00
PID B00003760046 KRF DAYTON LLC I.A. DEED 202000070091
PID B00003760046 KRONOS LEGACY LLC I.A. DEED 202000010752
PID B00003760034 WYTHE CORPORATION I.A. DEED 202030004427
PID B00003760046 CITY OF VANDALIA D.M.F. 13-477-035
PID B00003760002 CSX REALTY INC.
LOT 143
LOT 144
LOT 145
LOT 299
366.71
R20.00
63.71
63.20
194.87
194.07
304.92
89.00
124.38
16.00
43.50
20.00
100.00
40.00
60.00
122.63
149.81
253.63
98.08
60.00
76.69
35.73
31.00
23.86
117.34
R35.00
R10.00
R10.00
R10.00
R20.00
R20.00
R20

PROPOSED STORM STRUCTURES
#1 TYPE 2–2B CB TOP 956.50 15" N INV. 949.96 15" S INV. 949.96
#2 TYPE 2–2C CB TOP 956.24 15" S INV. 949.50 18" N INV. 949.45 8" W INV. 949.50
#3 TYPE 2–3 CB TOP 956.25 18" S INV. 948.41 24" N INV. 948.16
#4 TYPE 2–2C CB TOP 957.97 12" W INV. 955.00
#5 TYPE 2–2C CB TOP 958.24 15" W INV. 954.46 12" E INV. 954.71
#6 TYPE 2–2C CB TOP 958.24 8" E INV. 954.75 15" W INV. 954.75
#7 TYPE 2–3 CB TOP 957.95 15" SE INV. 953.59 15" E INV. 954.19 24" N INV. 953.40
#8 TYPE 2–3 CB TOP 957.14 24" S INV. 953.03 24" N INV. 952.03 12" W INV. 954.03
#9 TYPE 3 STM MH TOP 959.09 15" E INV. 954.20 15" NW INV. 954.20 12" S INV. 954.45
#10 TYPE 2–2B CB TOP 957.25 12" N INV. 954.75
#11 TYPE 2–2B CB TOP 956.09 15" N INV. 950.17 15" S INV. 950.17
#13 TYPE 2–2B CB TOP 954.22 15" N INV. 950.80 12" E INV. 951.05
#14 TYPE 2–2B CB TOP 954.22 12" W INV. 951.25
#15 TYPE 3 STM MH TOP 955.90 24" S INV. 947.45 24" NW INV. 947.45
#16 YARD DRAIN TOP 958.21 12" E INV. 954.66 12" S INV. 954.66
#17 YARD DRAIN TOP 958.13 12" N INV. 955.17 8" S INV. 955.50
#18 YARD DRAIN TOP 959.95 8" N INV. 955.17
#19 TYPE 2–2C CB TOP 945.87 12" W INV. 943.19
#20 TYPE 2–2B CB TOP 946.22 15" SE INV. 943.08 12" E INV. 943.08 15" N INV. 943.83

PROPOSED STORM STRUCTURES
#21 TYPE 2–3 CB TOP 954.13 24" SE INV. 947.10 30" NW INV. 947.10 12" NE INV. 948.04
#22 TYPE 2–2C CB TOP 951.01 12" NW INV. 946.00
#23 TYPE 2–2C CB TOP 949.06 12" SE INV. 944.61 12" N INV. 944.61
#24 TYPE 2–4 CB TOP 953.30 36" N INV. 947.00 8" S INV. 946.00
#25 TYPE 2–2C CB TOP 953.60 12" SW INV. 948.60 12" E INV. 948.60
#26 TYPE 2–2C CB TOP 953.75 12" W INV. 949.75

PROPOSED SANITARY STRUCTURES
#1 TYPE 3 SAN MH TOP. 959.59 8" W INV. 950.02 6" S INV. 955.67 8" E INV. 950.02

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'–0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL ISLAND CANOPY AND EQUIPMENT. SEE ARCHITECTURAL PLANS FOR DETAILS.

CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C10.
14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
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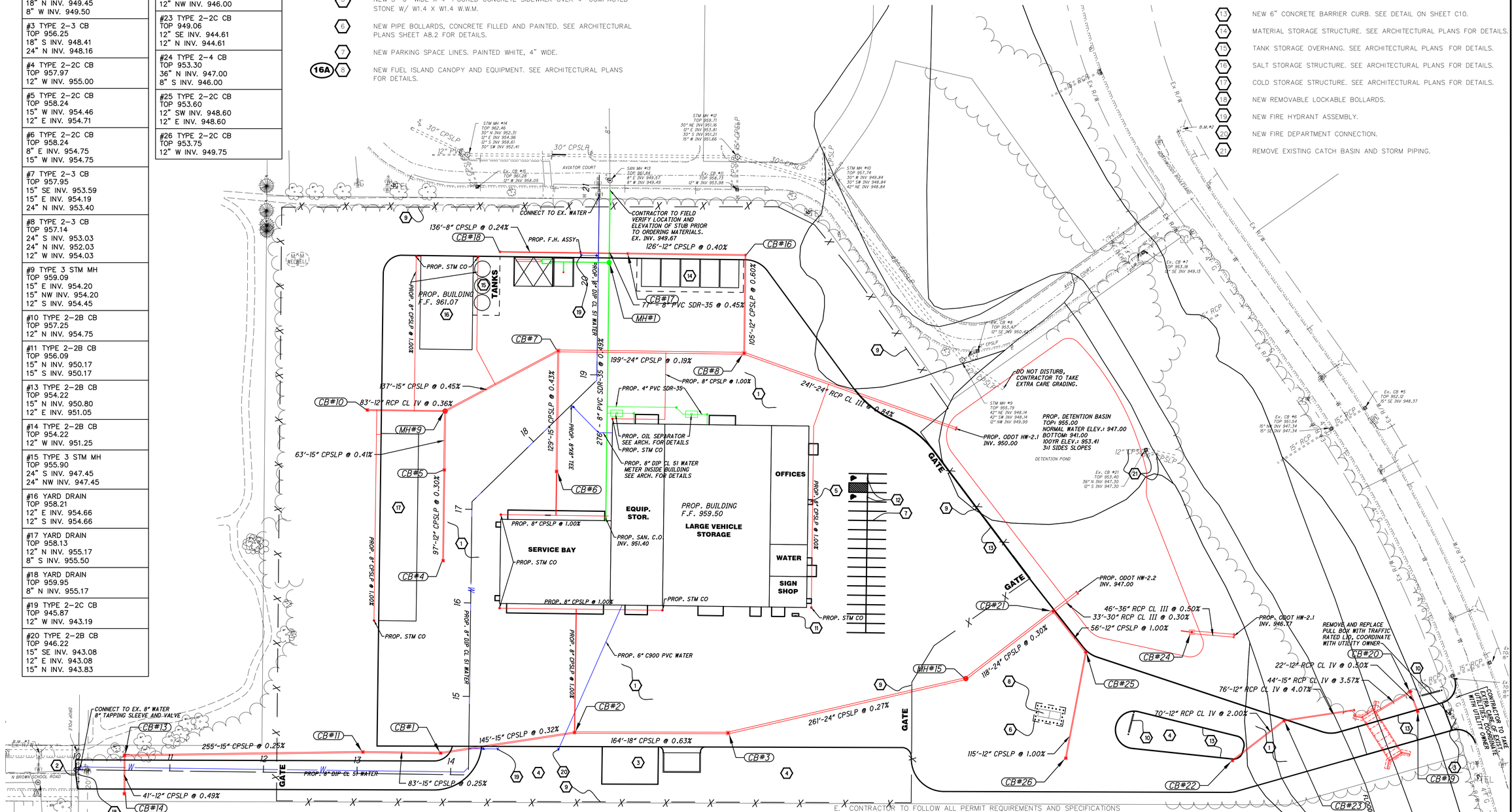
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. NEW REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.



BENCHMARK #1	ELEV. 948.01
FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW	
BENCHMARK #2	ELEV. 956.50
FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW	
BENCHMARK #3	ELEV. 957.84
FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.	

SCALE IN FEET
0 25 50 100

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GENERAL NOTES:

A. CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

B. ALL VALVE BOXES, PULL BOXES, CATCH BASIN TOPS AND MANHOLE TOPS TO BE FIELD ADJUSTED BY THE CONTRACTOR TO MEET FINAL FIELD CONDITIONS.

C. ALL UTILITIES IN PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL.

D. CONTRACTOR TO VERIFY AND LOCATE WHERE STORM, SANITARY, AND WATER LATERALS AND ALL OTHER PROPOSED UTILITY SERVICES TIE INTO THE PROPOSED BUILDING PER BUILDING PLANS. CONTRACTOR SHALL ALSO VERIFY THE SIZES AND TYPES OF ALL LATERALS AND HOW THEY MAY TIE INTO THE PROPOSED BUILDINGS.

E. CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED UTILITIES INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

F. CONTRACTOR TO COORDINATE ALL WORK WITH THE OWNER AS NEEDED/REQUIRED. COORDINATE ALL TIE–IN TO CITY UTILITIES WITH THE CITY.

G. THE LOCATION OF Ex. UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS, SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS WITH THE UTILITY COMPANIES AND/OR THE OHIO UTILITIES PROTECTION SERVICE AT 1–800–362–2764 NOT LESS THAN 48 HOURS BEFORE STARTING ANY DEMOLITION OR EXCAVATION ACTIVITIES

H. ALL UTILITIES IN PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL.

I. ANY UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO STORM SEWER.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

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VANDALIA, OHIO 45377

UTILITY PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C3
13 OF 112

NOTES:

CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

CONTRACTOR TO ENSURE ALL AREAS OF THE SITE HAVE POSITIVE DRAINAGE. NO PONDING OR PUDDLING OF WATER IS PERMITTED.

GRADE TIE IN NOTE:

CONTRACTOR TO TIE INTO EXISTING ELEVATIONS THROUGHOUT THE SITE. CONTRACTOR SHALL ENSURE PROPER GRADING AND DRAINAGE IS PROVIDED FOR ALL AREAS WITHIN THE SITE TO DRAIN TO EXISTING OR PROPOSED STORM SYSTEMS OR SWALES. CONTRACTOR SHALL ENSURE THAT DRAINAGE IS PROPERLY DIRECTED AWAY FROM ANY BUILDINGS/STRUCTURES. THIS SHALL INCLUDE ALL TEMPORARY GRADING AS NEEDED INCLUDING INSTALLING TEMPORARY DRAINAGE SWALES AND INSTALLING ALL TEMPORARY STORM SEWER CATCH BASINS, INLETS, PIPING, ETC. AS NEEDED TO ENSURE PROPER DRAINAGE OF THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION. ALL WORK TO BE COORDINATED WITH AND AS DIRECTED BY OWNER.

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS1.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.

CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
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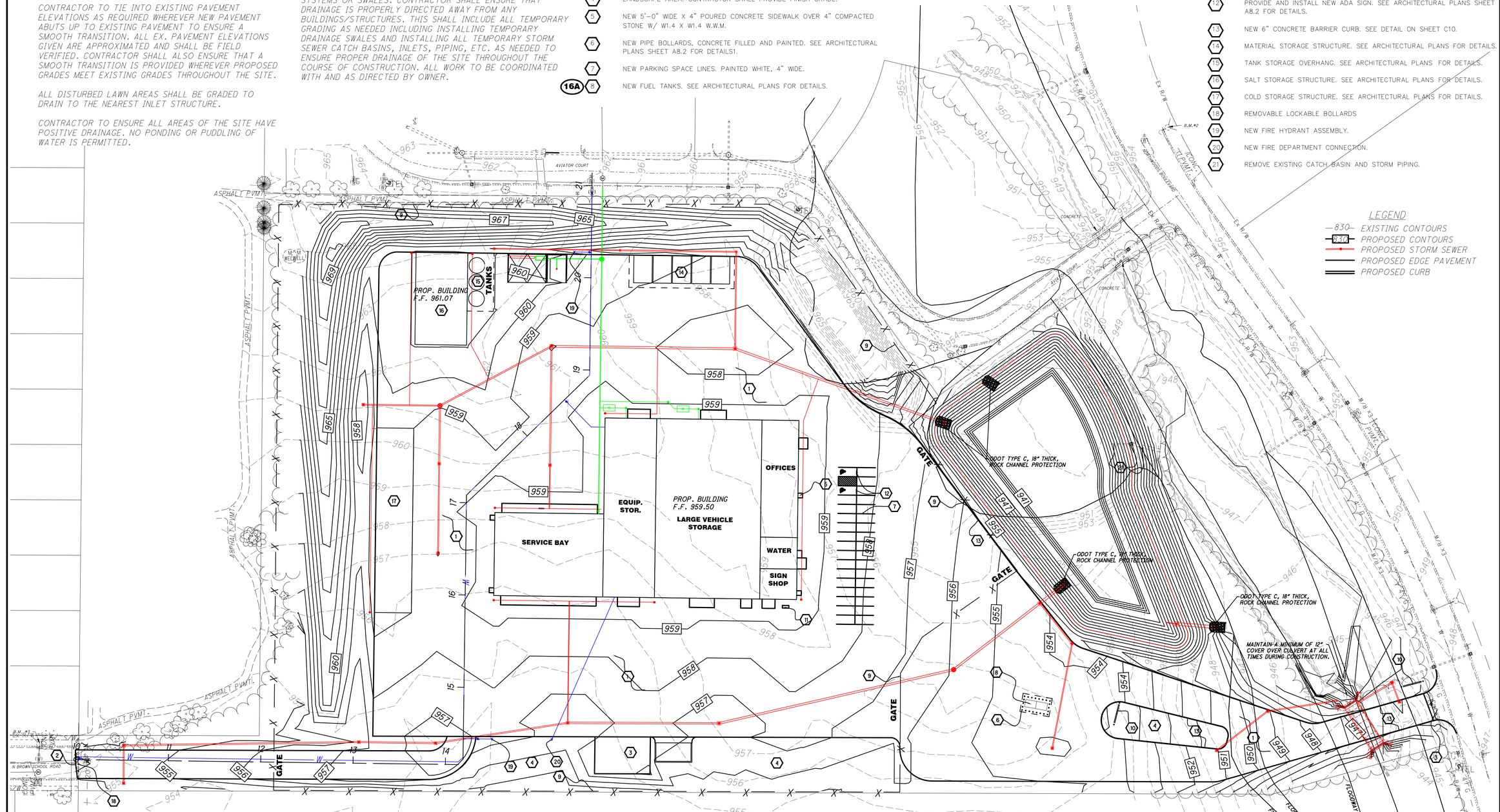

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A. ALL WATER LINES, WATER SERVICES AND SANITARY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL GOVERNING STANDARDS.
B. EACH CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWING AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.
C. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
D. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR PUBLIC UTILITY CONNECTIONS, AND ALL WORK IN PUBLIC RIGHT-OF-WAY.
E. CONTRACTORS ARE REQUIRED TO PAY FOR ALL HOOKUPS-METER BASES, VALVES. ECT. - AS REQUIRED FOR ALL UTILITY HOOK UPS. OWNER SHALL PAY ONLY FOR TAP FEES.
F. EROSION CONTROL MEASURES TO BE SET PER GOVERNING STANDARDS BY SITE CONTRACTOR AS SITE IS CONSTRUCTED.
G. CONTRACTOR IS RESPONSIBLE FOR ROUGH AND FINAL GRADING OF EXISTING SITE. THIS REQUIRES ALL CONSTRUCTION DEBRIS, LARGE OBJECTS, ETC. TO BE REMOVED AND PREPARE EXISTING SITE FOR TOPSOIL AND SEEDING.
H. GRADE ELEVATIONS INDICATE FINISHED PAVEMENT, GUTTER OR GROUND ELEVATIONS UNLESS OTHERWISE NOTED.
I. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ON SITE.
J. CONTRACTOR IS REQUIRED TO EXCAVATE, REMOVE, AND RELOCATE ON SITE SPOILS FOR ALL BUILDING PADS, SIDEWALKS, DRIVEWAYS, AND PARKING LOT. COORDINATE LOCATION WITH OWNER.
K. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED AS REQUIRED.
L. ALL MUD/DIRT TRACKED ONTO PUBLIC ROADS FROM SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY ALL CONTRACTORS.
M. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER.
N. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT RESTORATION.
O. ACCESSIBLE PARKING AND ACCESSIBLE LOADING AREAS WILL BE A MAX. SLOPE OF 2% IN ANY DIRECTION. ALL ACCESSIBLE ROUTES WILL BE A MAX. SLOPE OF 20:1 WITHOUT RAILING. ACCESSIBLE ROUTE WILL BE A MAX. SLOPE OF 12:1 WITH RAILING BUT MUST HAVE 5' LANDING AT THE BEGINNING AND END OF RAMP.
P. COORDINATE UTILITY PENETRATIONS, ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL & MEP PLANS.

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

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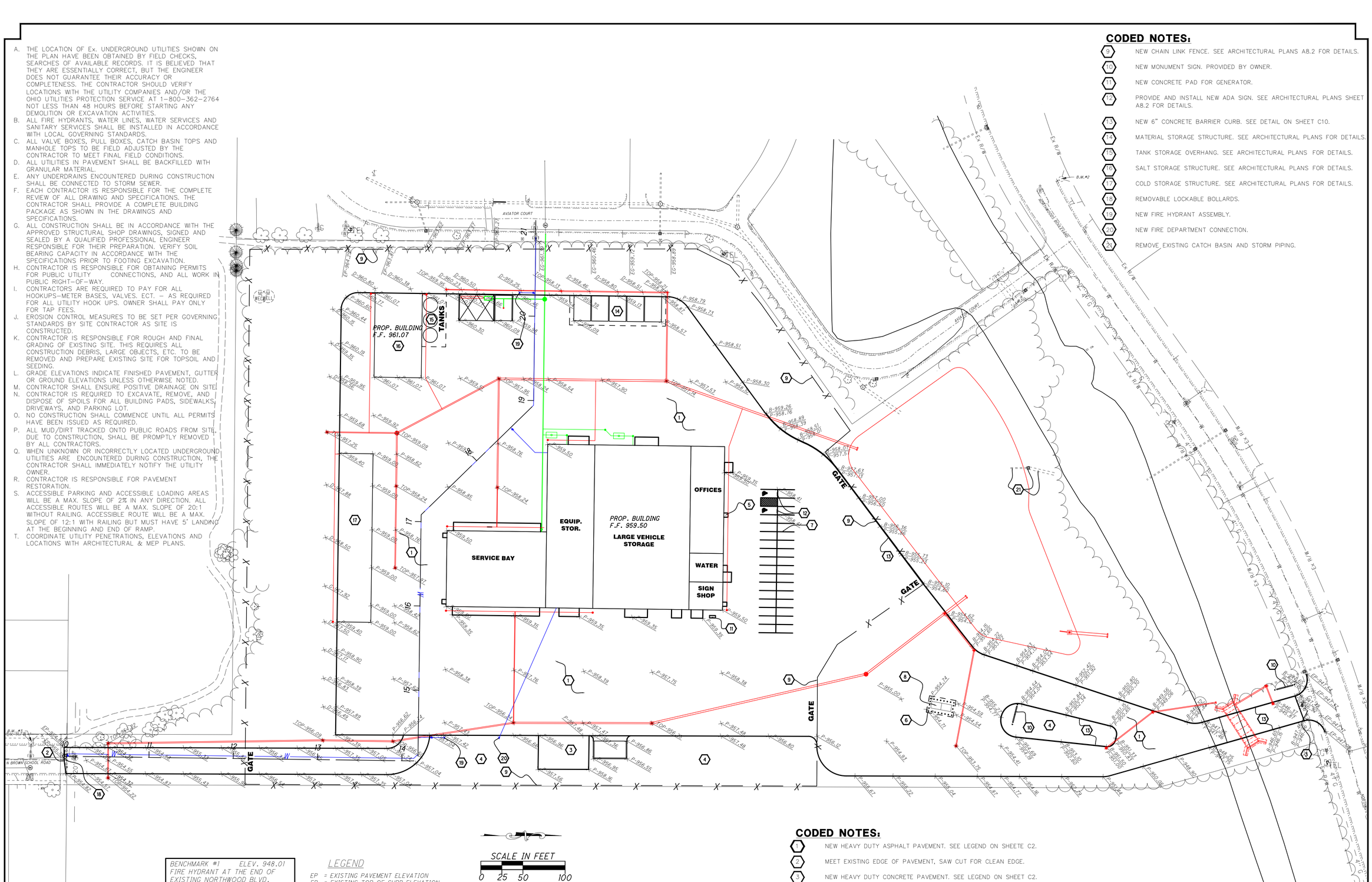
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
GRADING PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C4
14 OF 112

A. THE LOCATION OF Ex. UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS, SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS WITH THE UTILITY COMPANIES AND/OR THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 NOT LESS THAN 48 HOURS BEFORE STARTING ANY DEMOLITION OR EXCAVATION ACTIVITIES.
B. ALL FIRE HYDRANTS, WATER LINES, WATER SERVICES AND SANITARY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL GOVERNING STANDARDS.
C. ALL VALVE BOXES, PULL BOXES, CATCH BASIN TOPS AND MANHOLE TOPS TO BE FIELD ADJUSTED BY THE CONTRACTOR TO MEET FINAL FIELD CONDITIONS.
D. ALL UTILITIES IN PAVEMENT SHALL BE BACKFILLED WITH GRANULAR MATERIAL.
E. ANY UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO STORM SEWER.
F. EACH CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWING AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.
G. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
H. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR PUBLIC UTILITY CONNECTIONS, AND ALL WORK IN PUBLIC RIGHT-OF-WAY.
I. CONTRACTORS ARE REQUIRED TO PAY FOR ALL HOOKUPS-METER BASES, VALVES, ECT. - AS REQUIRED FOR ALL UTILITY HOOK UPS. OWNER SHALL PAY ONLY FOR TAP FEES.
J. EROSION CONTROL MEASURES TO BE SET PER GOVERNING STANDARDS BY SITE CONTRACTOR AS SITE IS CONSTRUCTED.
K. CONTRACTOR IS RESPONSIBLE FOR ROUGH AND FINAL GRADING OF EXISTING SITE. THIS REQUIRES ALL CONSTRUCTION DEBRIS, LARGE OBJECTS, ETC. TO BE REMOVED AND PREPARE EXISTING SITE FOR TOPSOIL AND SEEDING.
L. GRADE ELEVATIONS INDICATE FINISHED PAVEMENT, GUTTER OR GROUND ELEVATIONS UNLESS OTHERWISE NOTED.
M. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ON SITE.
N. CONTRACTOR IS REQUIRED TO EXCAVATE, REMOVE, AND DISPOSE OF SPOILS FOR ALL BUILDING PADS, SIDEWALKS, DRIVEWAYS, AND PARKING LOT.
O. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL PERMITS HAVE BEEN ISSUED AS REQUIRED.
P. ALL MUD/DIRT TRACKED ONTO PUBLIC ROADS FROM SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY ALL CONTRACTORS.
Q. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER.
R. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT RESTORATION.
S. ACCESSIBLE PARKING AND ACCESSIBLE LOADING AREAS WILL BE A MAX. SLOPE OF 2% IN ANY DIRECTION. ALL ACCESSIBLE ROUTES WILL BE A MAX. SLOPE OF 20:1 WITHOUT RAILING. ACCESSIBLE ROUTE WILL BE A MAX. SLOPE OF 12:1 WITH RAILING BUT MUST HAVE 5' LANDING AT THE BEGINNING AND END OF RAMP.
T. COORDINATE UTILITY PENETRATIONS, ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL & MEP PLANS.



BENCHMARK #1	ELEV. 948.01 FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW
BENCHMARK #2	ELEV. 956.50 FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW
BENCHMARK #3	ELEV. 957.84 FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.

LEGEND

EP = EXISTING PAVEMENT ELEVATION
EB = EXISTING TOP OF CURB ELEVATION
EW = EXISTING SIDEWALK ELEVATION
EG = EXISTING GROUND ELEVATION
EFL = EXISTING FLOWLINE ELEVATION
ETOP = EXISTING TOP OF GRATE ELEVATION
P = PROPOSED PAVEMENT ELEVATION
B = PROPOSED TOP OF CURB ELEVATION
W = PROPOSED SIDEWALK ELEVATION
G = PROPOSED GROUND ELEVATION
D = PROPOSED SWALE ELEVATION
TOP = PROPOSED TOP OF GRATE ELEVATION

SCALE IN FEET
0 25 50 100

NOTE:
CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

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CODED NOTES:

9. NEW CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS A8.2 FOR DETAILS.
10. NEW MONUMENT SIGN. PROVIDED BY OWNER.
11. NEW CONCRETE PAD FOR GENERATOR.
12. PROVIDE AND INSTALL NEW ADA SIGN. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
13. NEW 6" CONCRETE BARRIER CURB. SEE DETAIL ON SHEET C10.
14. MATERIAL STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. TANK STORAGE OVERHANG. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. SALT STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
17. COLD STORAGE STRUCTURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. REMOVABLE LOCKABLE BOLLARDS.
19. NEW FIRE HYDRANT ASSEMBLY.
20. NEW FIRE DEPARTMENT CONNECTION.
21. REMOVE EXISTING CATCH BASIN AND STORM PIPING.

CODED NOTES:

1. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE LEGEND ON SHEETE C2.
2. MEET EXISTING EDGE OF PAVEMENT, SAW CUT FOR CLEAN EDGE.
3. NEW HEAVY DUTY CONCRETE PAVEMENT. SEE LEGEND ON SHEET C2.
4. LANDSCAPE AREA. CONTRACTOR SHALL PROVIDE FINISH GRADE.
5. NEW 5'-0" WIDE X 4" POURED CONCRETE SIDEWALK OVER 4" COMPACTED STONE W/ W1.4 X W1.4 W.W.M.
6. NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE ARCHITECTURAL PLANS SHEET A8.2 FOR DETAILS.
7. NEW PARKING SPACE LINES. PAINTED WHITE, 4" WIDE.
8. NEW FUEL TANKS. SEE ARCHITECTURAL PLANS FOR DETAILS.

ALL WORK ON THIS SHEET BY 2A UNLESS OTHERWISE NOTED.

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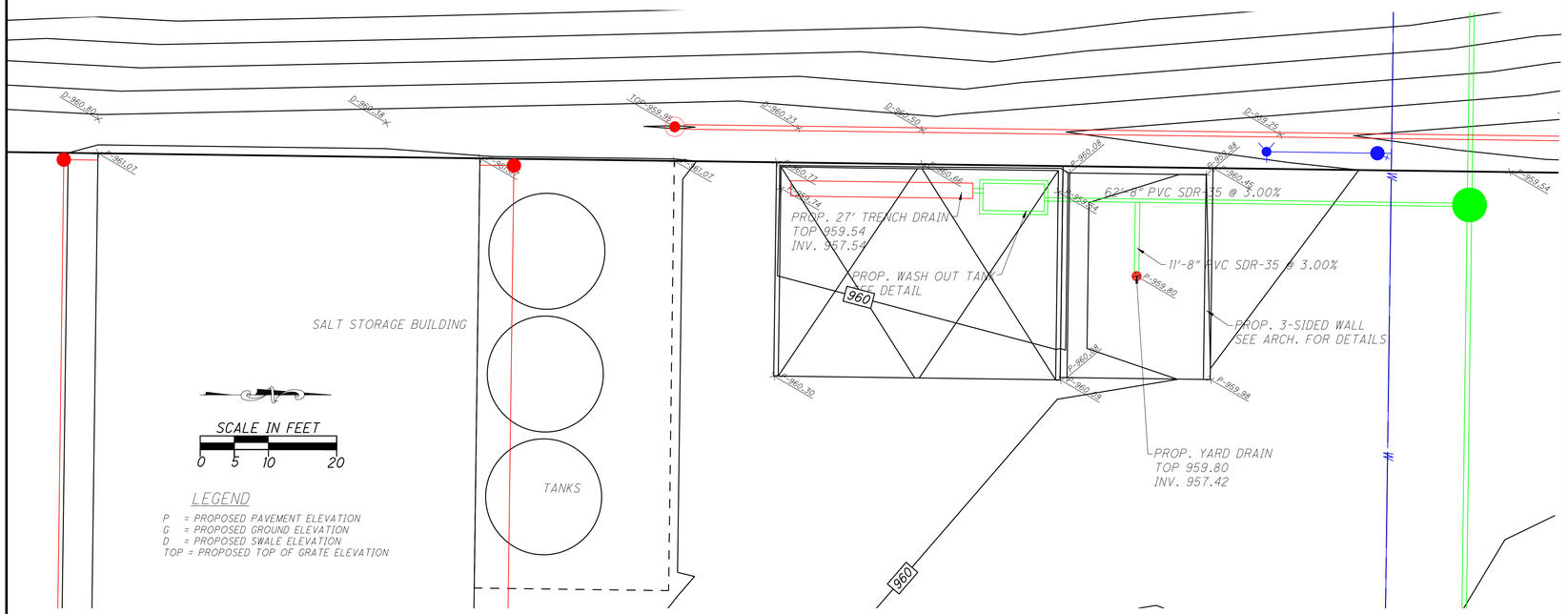
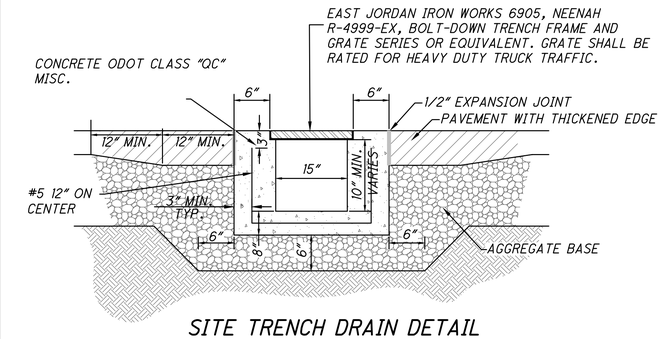
A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

PAVEMENT ELEVATION PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C5
15 OF 112





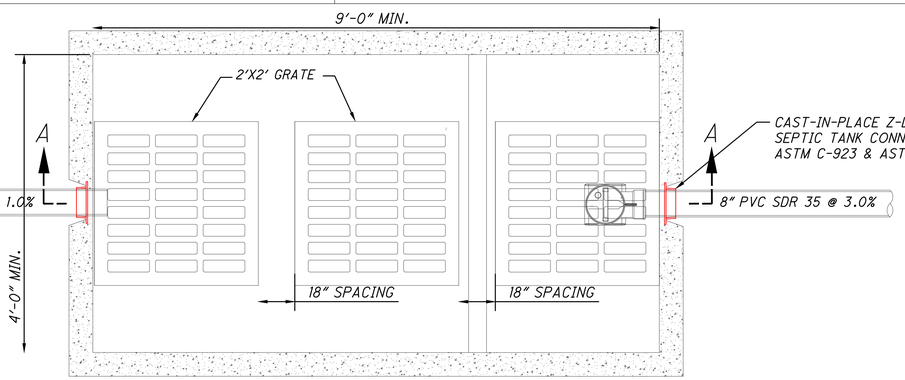
SITE TRENCH DRAIN DETAIL

INSTALL FRAME AND GRATE PER MANUFACTURER'S REQUIREMENTS/RECOMMENDATIONS AND SECURE ANGLE IRON/FRAME TO CONCRETE PER MANUFACTURER'S REQUIREMENTS/RECOMMENDATIONS.

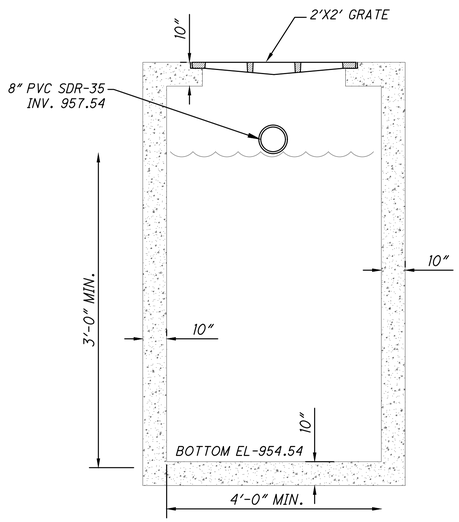
CONCRETE PAVEMENT THICKENED EDGE NOTES:

1) CONCRETE PAVEMENT SHALL HAVE ISOLATION JOINTS AT THICKENED EDGE WHERE PAVEMENT MEETS TRENCH DRAIN.

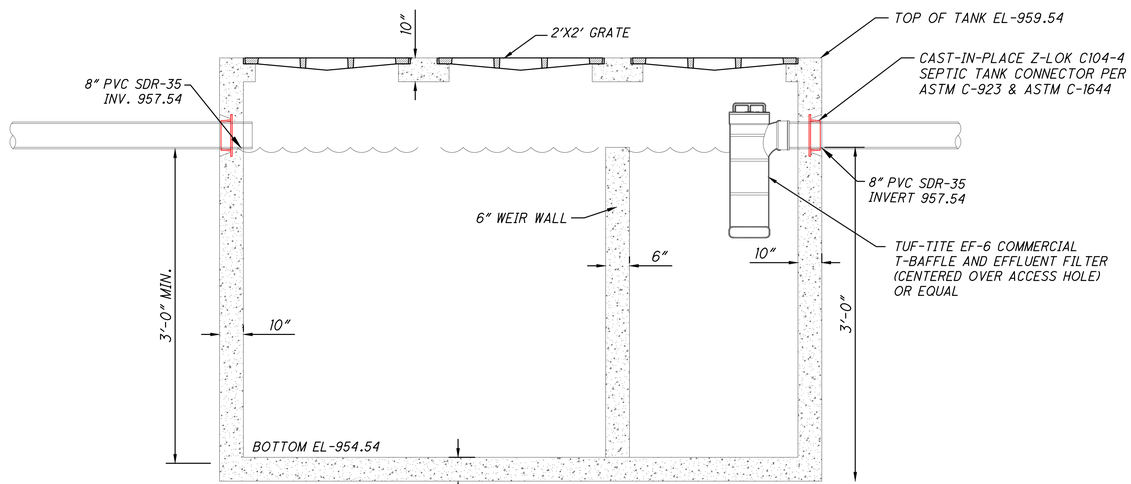
2) THICKENED EDGES SHALL CONSISTS OF A MINIMUM OF A 2" INCREASE IN THE THICKNESS OF THE CONCRETE PAVEMENT ALONG A MINIMUM OF 24" OF THE PAVEMENT. THE 2" THICKNESS INCREASE SHALL TRANSITION OVER A MINIMUM OF 12"–24".



WASH OUT PIT - TOP VIEW



WASH OUT PIT - END VIEW



WASH OUT PIT - PROFILE VIEW - SECTION A-A

WASH OUT PIT DETAIL

STRUCTURE, FRAME AND GRATE SHALL BE TRAFFIC RATED PER PRECAST MANUFACTURER'S SPECIFICATIONS.

SHOP DRAWING SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING MATERIALS.

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WASH OUT BAY DETAIL

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C6
16 OF 112

ELEVATION DATUM
ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 18).

GENERAL NOTES AND DETAILS
ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF VANDALIA STANDARDS AND SPECIFICATIONS AND/OR THE LATEST VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE CITY OF VANDALIA.

UNDERGROUND UTILITIES
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

STREETS, STORM, SANITARY AND WATER
CITY OF VANDALIA
333 JAMES E. BOHANAN
VANDALIA, OHIO 45377
(937) 898-3750

TELEPHONE
AT&T
7201 FAR HILLS AVE.
CENTERVILLE, OHIO 45459
(937) 296-3588
ATTN: HOWARD LAUDERMILK

FIBER
METRONET
100 HARRISBURG ROAD
ENGLEWOOD, OHIO 45322
ATTN: JEROD INGELS
jerod.ingels@metronet.com

CABLE
CHARTER COMMUNICATIONS
3691 TURNER ROAD
DAYTON, OHIO 45415
(937) 396-8372
ATTN: DYLAN DORRIS

ELECTRIC
AES
1900 DRYDEN ROAD
DAYTON, OHIO 45439
(937) 331-4025
ATTN: BHAVYA KATTA

GAS
CENTERPOINT ENERGY
2345 E. MAIN ST.
DANVILLE, IN 46122
(317) 718-3639

ELECTRIC
MIAMI VALLEY LIGHTING
1065 WOODMAN DRIVE
DAYTON, OHIO 45432
(937) 259-7192
ATTN: ROBYN LIVESAY

OHIO UTILITIES PROTECTION SERVICE 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-362-2764

UTILITY INTERFERENCE
IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

EXISTING TILE HOOKUPS
THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE CITY OF VANDALIA BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE CITY OF VANDALIA. CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY THE CITY OF VANDALIA. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

GEOTECHNICAL ENGINEERING REPORT
CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT FOR THE PROPOSED PROJECT AND PERFORM ALL GEOTECHNICAL WORK IN ACCORDANCE WITH THIS REPORT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES
WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, CITY OF VANDALIA SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, CITY OF VANDALIA SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

MUD
THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE
IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAD FILE DISCLAIMER
THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY
THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MASONRY COLLAR
A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

DEWATERING AND BY-PASS PUMPING
ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

CLEAN WATER NOTE
ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

SANITARY SEWER/LATERAL NOTE
ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

STORM SEWER INSTALLATION
THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (I.E. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

TYPES OF PIPE PERMITTED	ODOT MATERIALS NUMBERS
CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP)	707.33
POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP)	707.65
POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35)	707.45
REINFORCED CONCRETE PIPE	706.02

GENERAL NOTES
1. INSTALL AND TEST ALL UTILITIES PER THE LATEST VERSION OF THE CITY OF VANDALIA STANDARDS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.

3. ALL CONCRETE USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-1P AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTION(S) OR AS NOTED HERE. ALL OTHER CONCRETE (WALKS, CURBS, ETC.) SHALL ALSO BE ODOT QC-1P. ALL CONCRETE SHALL BE REINFORCED WITH 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

4. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

5. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

6. ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER THE LATEST VERSION OF THE CITY OF VANDALIA STANDARDS.

STORM AND SANITARY CONDUITS/STRUCTURES AND RELATED WORK
THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL WORK IS PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. CONTRACTOR SHALL ALSO ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL, AND TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES (CATCH BASINS, YARD DRAINS, MANHOLES, ETC.) SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

MAINTAINING TRAFFIC
MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CONSTRUCTION TRAFFIC TO UTILIZE NORTHWOODS BLVD. ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

SUBCONTRACTOR SUPERVISION
THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT
TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

SAWCUT PAVEMENT JOINTS
MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.

WATER LINE CROSSING SEPARATION
CONTRACTOR SHALL LOWER/DIP ANY EXISTING OR PROPOSED WATER LINES AS NEEDED TO OBTAIN AN 18" MINIMUM SEPARATION DISTANCE FROM THE WATER LINE TO ANY STORM OR SANITARY SEWER. WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. ALSO ONE FULL LENGTH OF WATERLINE SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

PAVEMENT MARKINGS
ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE 1, UNLESS APPLICATION IS REQUIRED WHEN AIR AND PAVEMENT TEMPERATURES ARE BETWEEN 35 °F AND 50 °F, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT MATERIALS PER ITEM 642 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

DOWNSPOUTS
THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

UTILITIES
CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, FIBER OPTIC, ETC.. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ALL ARCHITECT PLANS (BUILDING, PLUMBING, ELECTRICAL, ETC.) BEFORE CONSTRUCTION.

ASPHALT PAVEMENT REPLACEMENT NOTE
ANY EXISTING PAVEMENT THAT IS TO BE REMOVED SHALL BE SAWCUT FULL DEPTH AND RESTORED TO MATCH THE EXISTING PAVEMENT CROSS SECTION UNLESS OTHERWISE NOTED IN THE PLANS.

ASPHALT
ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT EXCEPT FOR ODOT ITEM 401.20 ASPHALT BINDER PRICE ADJUSTMENT (ASPHALT CONCRETE BID ITEMS ARE NOT ELIGIBLE FOR ANY ASPHALT BINDER PRICE ADJUSTMENT).

ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

REVIEW OF DRAINAGE FACILITIES
BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF VANDALIA AND/OR OWNER.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND DETENTION/RETENTION BASINS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

CLEARING AND GRUBBING
CONTRACTOR TO CLEAR THE AREA AS SHOWN ON THE PLANS AND/OR AS NEEDED TO WORK ON THIS PROJECT. UNLESS STATED ELSEWHERE IN THE PLANS, CLEARING AND GRUBBING IS TO BE KEPT TO A MINIMUM IN ORDER TO PRESERVE THE WOODED AREAS.

RESTORATION
THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

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MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER ITEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

GENERAL NOTES FOR CIVIL WORK

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND IS TO INCLUDE SUCH COSTS AS A PART OF THE LUMP SUM PRICE ON THE PROJECT.

2. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE APPROPRIATE UNDERGROUND UTILITY MARKING SERVICE PRIOR TO THE START OF ANY CONSTRUCTION IN ORDER TO AVOID CONFLICTS WITH EXISTING UTILITIES. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO THE START OF ANY WORK THAT WOULD BE IN CONFLICT WITH THE UTILITIES.

3. THE CONTRACTOR IS TO VISIT AND INVESTIGATE THE PROJECT SITE, PRIOR TO BIDDING, IN ORDER TO DETERMINE THE EXISTING GROUND AND SITE CONDITIONS. FOR SOIL TYPE AND GROUND WATER TABLE, THE CONTRACTOR IS ENCOURAGED TO UTILIZE ANY AVAILABLE DATA TO ESTIMATE GROUND CONDITIONS. SHOULD THE BIDDING CONTRACTOR REQUIRE ADDITIONAL TEST HOLES PRIOR TO BIDDING IN ORDER TO DETERMINE OR VALIDATE GROUND CONDITIONS, THIS CAN BE COMPLETED AT THE DISCRETION OF THE OWNER. NO TEST HOLES ARE TO BE DUG WITHOUT CONTACTING THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION AND WITHOUT RECEIVING WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE TO DO SO.

4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS WITH REGARD TO EXCAVATION, SAFETY, QUALITY AND WORK PROGRESS. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THESE THROUGHOUT CONSTRUCTION OPERATIONS.

5. THE LOCATION OF MATERIALS STORED ON SITE MUST RECEIVE THE APPROVAL OF THE OWNER. IN GENERAL, MATERIALS SHOULD BE STORED SO AS TO MINIMIZE THE INCONVENIENCE TO THE OWNER.

6. IF EXCAVATED MATERIALS ARE FOUND TO BE CONTAMINATED, REMEDIATION WILL BE AT THE OWNER'S EXPENSE PRIOR TO REMOVAL FROM THE SITE OR DISPOSAL ON-SITE BY THE CONTRACTOR. THIS PROCESS WILL BE COORDINATED BETWEEN THE OWNER AND CONTRACTOR.

7. TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE BID SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE OSHA RULES AND REGULATIONS. IN ADDITION, THE OWNER MAY HAVE ADDITIONAL REQUIREMENTS FOR EXCAVATION AND TRENCHING ON OWNER PROPERTY THAT MAY BE MORE STRINGENT THAN CURRENT LOCAL OR OSHA REQUIREMENTS. IN THIS CASE, THE OWNER'S REQUIREMENTS ARE TO BE FOLLOWED UNLESS THIS ACTION WOULD BE CONSIDERED NON-COMPLIANT WITH CURRENT GOVERNING CODES OR REGULATIONS AS DEFINED BY LOCAL OR GOVERNING AUTHORITIES. WHERE A NON-COMPLIANCE ISSUE IS NOTED, THE CONTRACTOR IS TO MAKE THE OWNER AND ENGINEER AWARE OF THE GOVERNING CODE.

8. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES, NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH THE EXCAVATED TRENCH. ANY DRAINAGE TILES ENCOUNTERED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER AS PART OF THE RECORD DRAWINGS.

9. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRS TO ANY UTILITY LINE(S) THAT THE CONTRACTOR DAMAGES UNLESS OTHERWISE CLEARLY THE RESPONSIBILITY OF THE UTILITY COMPANY.

10. THE CONTRACTOR WILL REPLACE ALL DAMAGED OR REMOVED DRIVES AND PAVEMENT WITH THE REQUIRED THICKNESS SHOWN ON THE PLANS OR MATCH EXISTING IF GREATER.

11. ALL DISTURBED LAWN AREAS SHALL BE GRADED TO DRAIN TO THE NEAREST INLET STRUCTURE.

12. CONTRACTOR SHALL USE PROPER EROSION CONTROL TECHNIQUES TO MAINTAIN GRADE PRIOR TO SEEDING.

ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

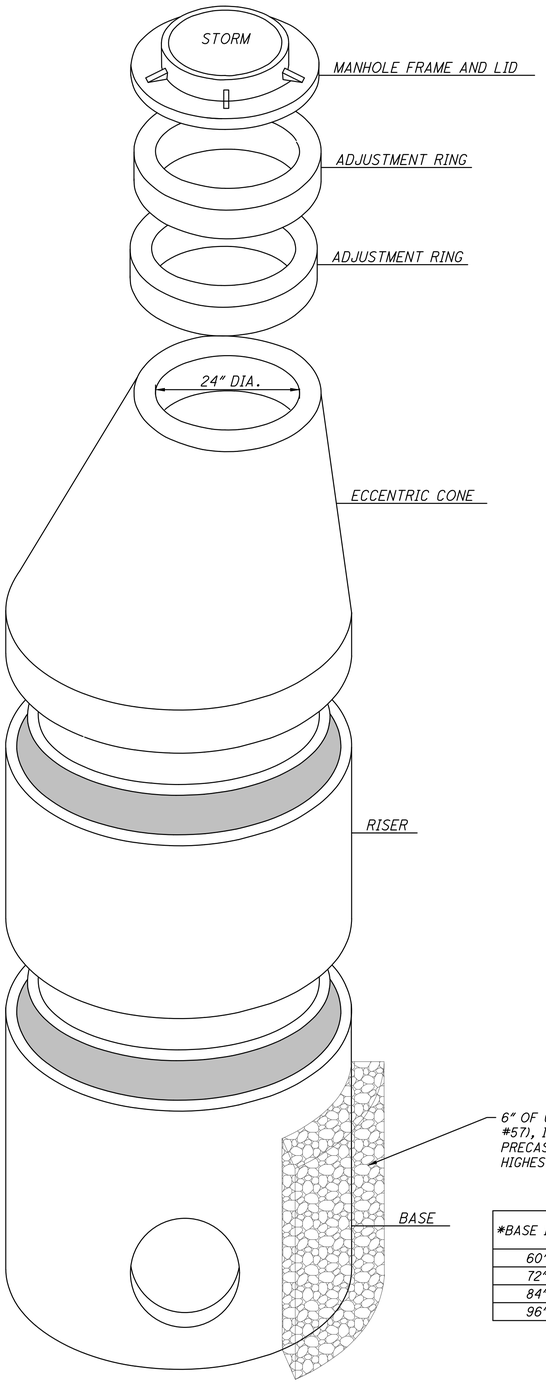
ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1 9/32 IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING.
ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE.
THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

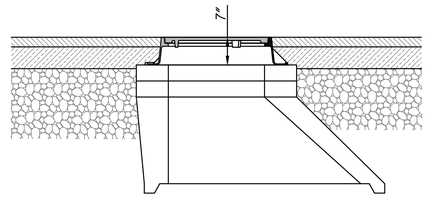
PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.



48" DIA. MANHOLE
FOR 30" & SMALLER PIPE
(*SEE TABLE FOR PIPE SIZES GREATER THAN 30")

*BASE I.D.	MIN "t" WALL THICKNESS	MAXIMUM PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
96"	8"	60"

NO. 3 STORM MANHOLE



MANHOLE IN PAVEMENT

NOTES

A. EACH STORM SEWER MANHOLE SHALL BE CONSTRUCTED PER ODOT'S NO. 3 MANHOLE STANDARD CONSTRUCTION DRAWINGS WITH THE FOLLOWING MODIFICATIONS:

B. MANHOLE FRAME SHALL BE EQUAL TO NEENAH R-1642 OR EAST JORDAN IRON WORKS 1040Z. MANHOLE LID/COVER SHALL BE EQUAL TO NEENAH R-1642, TYPE B, SOLID LID OR EAST JORDAN IRON WORKS 1040A, SOLID LID. THE LID/COVER SHALL HAVE "STORM" STAMPED ON IT. FOR A GRATED LID PROVIDE NEENAH R-2370 TYPE G OR EQUAL. A RUBBER SEAL OR MASTIC SEAL BETWEEN THE MANHOLE FRAME AND TOP SECTION OF ADJUSTING RINGS IS REQUIRED.

C. PRECAST ADJUSTMENT RINGS SHALL BE 2" MIN. AND 12" MAX. NO MORE THAN TWO ADJUSTMENT RINGS OR A HEIGHT GREATER THAN 16" WILL BE ALLOWED. ADJUSTMENT RINGS TO BE GROUTED OR IF OUT OF PAVEMENT, USE CONSEAL CS-102 SEALANT OR EQUIVALENT.

D. TOP AND TRANSITION (OR REDUCER) SECTIONS SHALL BE AN ECCENTRIC CONE WITH THE OPTION OF USING A FLAT SLAB TOP IF SITE CONDITIONS REQUIRE IT. IT'S THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PRECAST MANUFACTURER TO DETERMINE IF, (DUE TO LACK OF SUFFICIENT COVER FROM FINISHED GRADE OR OVER PIPE(S)), A FLAT SLAB TOP IS REQUIRED (VERSUS THE PREFERRED ECCENTRIC CONE AS SHOWN IN THIS DETAIL) AND AND SUPPLY THE REQUIRED FLAT SLAB TOP PER ODOT STANDARD CONSTRUCTION DRAWING (MH-3) AND PRECAST MANUFACTURERS RECOMMENDATIONS.

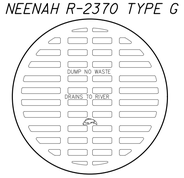
E. ALL PIPES INTRUDING INTO THE MANHOLE SHALL BE AS MINIMAL AS POSSIBLE TO ALLOW FOR A PROPER SEAL WITH NON-SHRINK GROUT.

F. CONNECTIONS BETWEEN STORM SEWER AND PRECAST MANHOLE SECTIONS SHALL BE COMPLETED WITH NON-SHRINK GROUT, HAND PLACED, SMOOTHED AND BRUSHED ON BOTH SIDES OF THE CONNECTION.

G. JOINTS BETWEEN PRECAST MANHOLE SECTIONS SHALL BE SEALED WITH AN O-RING GASKET MEETING ASTM SPEC. 443. JOINTS TO BE KEPT TO A MINIMUM.

H. DUE TO PIPE ORIENTATION, LARGER DIAMETER PRECAST MANHOLE BASE SECTIONS MAY BE REQUIRED. CONTRACTOR AND PRECAST SUPPLIER TO VERIFY MANHOLE DIAMETER (SEE CHART BELOW).

NEENAH R-2370 TYPE G



GRATED LID SHALL BE USED IF CALLED OUT IN THE PLANS

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GENERAL NOTES AND DETAILS- 002

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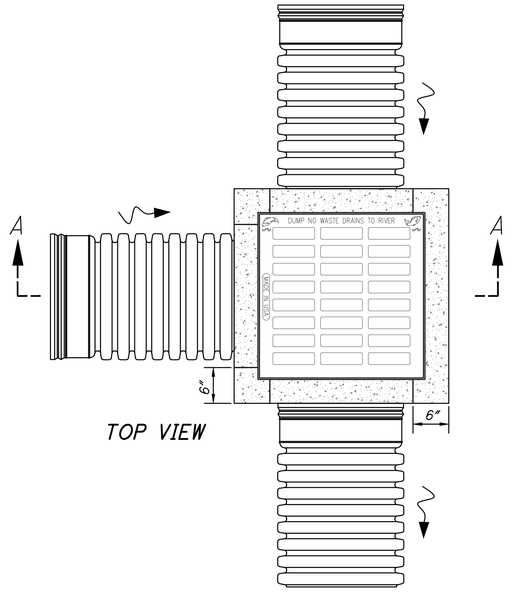
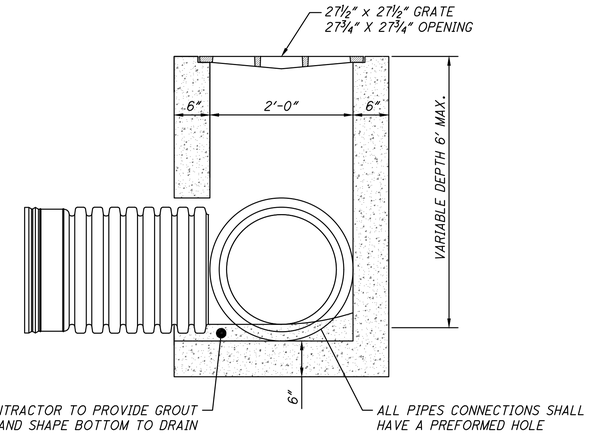


TOP VIEW



SECTION A-A

NOTES

A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.

B. CATCH BASINS INSTALLED IN NON-PAVED AREAS SHALL BE PROVIDED WITH A RECESSED GRATE MANUFACTURED BY NEENAH CATALOG NO. R-4859-C (TYPE A) OR EAST JORDAN IRON WORKS 5110 (TYPE M3) OR EQUIVALENT.

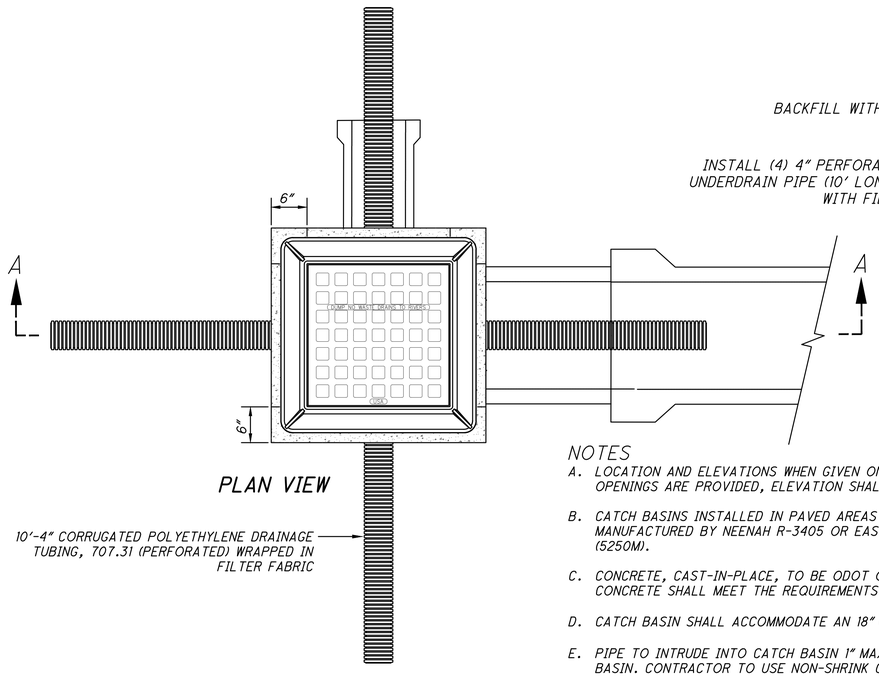
C. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.

D. GRATE ELEVATION TO BE PLACED 4" - 6" BELOW THE NORMAL DITCH LINE RETURNING TO NORMAL 10'-0" ON EACH SIDE OF STRUCTURE.

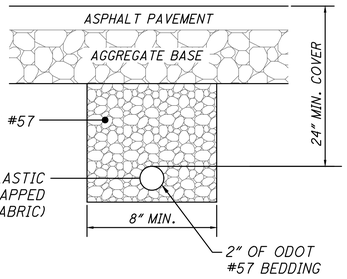
E. CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.

F. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.

2-2B CATCH BASIN (NON-PAVED AREAS)



PLAN VIEW



UNDERDRAIN DETAIL

NOTES

A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.

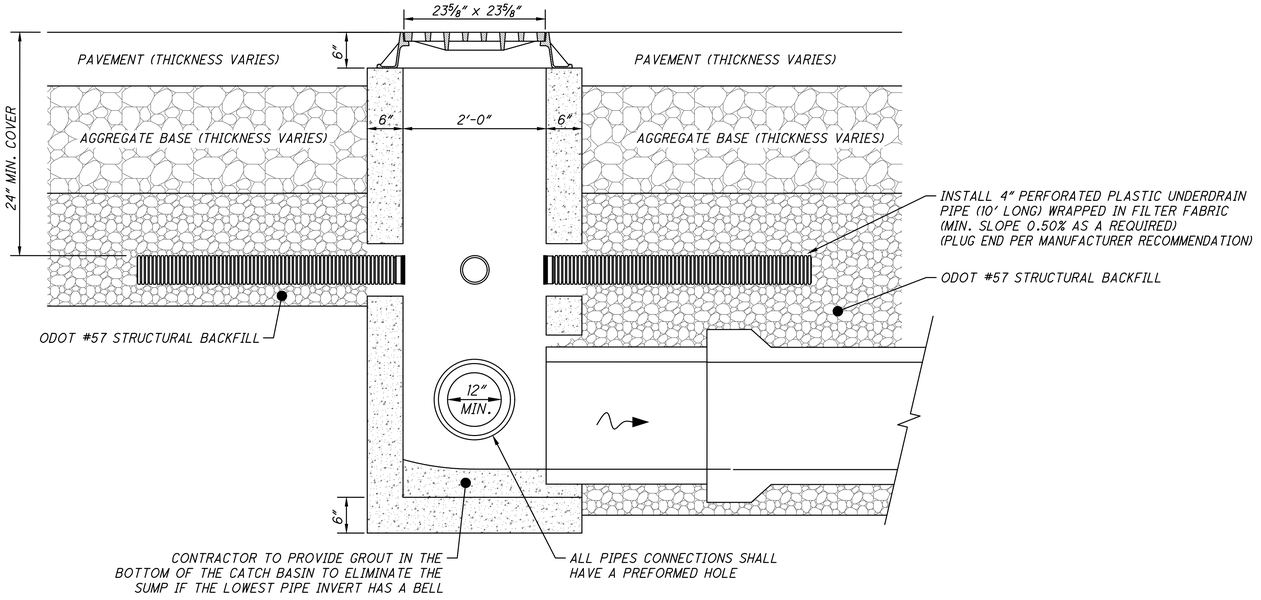
B. CATCH BASINS INSTALLED IN PAVED AREAS SHALL BE PROVIDED WITH A FRAME AND GRATE MANUFACTURED BY NEENAH R-3405 OR EAST JORDAN IRON WORKS (FRAME 5250Z) AND GRATE (5250M).

C. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.

D. CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.

E. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.

F. THE CONTRACTOR SHALL ENSURE THE FRAME IS SECURELY BOLTED/FASTENED TO THE CATCH BASIN DURING INSTALLATION IN ALL PAVED AREAS (GRAVEL, ASPHALT AND CONCRETE).



2-2C CATCH BASIN (PAVED AREAS, WITH UNDERDRAINS)

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GENERAL NOTES AND DETAILS- 003

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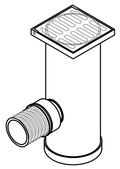
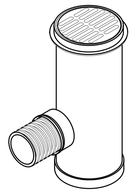
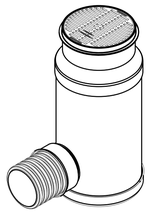
8"Φ AND 10"Φ BASIN



12"Φ AND 15" Φ BASIN



18"Φ - 30" Φ BASIN



36" Φ BASIN

BEEHIVE / DOME GRATE

NOTES

A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE.

B. THE BASIN DIAMETER SHALL BE DETERMINED BY THE BASIN MANUFACTURER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE BASIN MANUFACTURER, NYLOPLAST, TO DETERMINE THE REQUIRED BASIN DIAMETER BASED ON THE PIPING CONFIGURATION AND TO SUPPLY THE NEEDED BASIN DIAMETER. CONTRACTOR TO INSTALL PER MANUFACTURERS RECOMMENDATIONS.

C. THE FRAME AND GRATE SHALL BE THE STANDARD OPTION DUCTILE IRON PER ASTM A536 GRADE 70-50-05. (NYLOPLAST - 8" #0899CGS, 10" #1099CGS, 12" #1299CGS.....36" #3099CGS). FOR LANDSCAPE AREAS THE FRAME AND GRATE SHALL BE THE (NYLOPLAST DOME GRATE: #0899CGD, #1099CGD, #1299CGD.....30" #3099CGD).

D. THE BASINS SHALL BE MANUFACTURED FROM PVC PIPE STOCK (RAW MATERIAL PER ASTM D1784 CELL CLASS 12454), UTILIZING A THERMOFORMING PROCESS TO REFORM THE PIPE STOCK TO SPECIFIED CONFIGURATION. A WATERTIGHT CONNECTION SHALL CONFORM TO ASTM D3212. FLEXIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. PER ASTM D1784 CELL CLASS 12454. (NYLOPLAST - 8" #2808AG, 10" #2810AG, 12" #2812AG.....36" #2836AG)

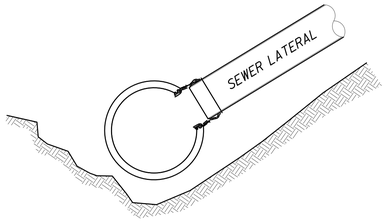
E. THE BASIN ADAPTOR CONNECTIONS HAVE THE CAPABILITY TO CONNECT INTO VARIOUS TYPES (HDPE, PVC SDR-35, PVC SCG-40, PVC C900, CORRUGATED/RIBBED PVC.

F. ALL YARD DRAINS THAT ARE INSTALLED WITHIN PLANTING BEDS AND/OR MULCH BEDS SHALL HAVE A BEEHIVE/DOME GRATE WITH A STONE COLLAR SURROUNDING THEM TO PREVENT MULCH FROM WASHING INTO THE BASIN. STONE COLLAR TO BE 6" WIDE BY 6" THICK AROUND THE ENTIRE PERIMETER OF THE BASIN AND CONSIST OF 1" TO 2" ROUND RIVER ROCK. CONTRACTOR SHALL FASTEN/BOLT DOWN GRATE TO BASIN TO ENSURE GRATE IS SECURELY FASTENED IN PLACE.

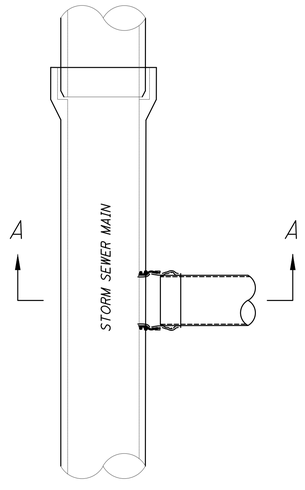
G. IF GRATES ARE LOCATED WITHIN PAVED OR WALKING AREAS, GRATES MUST BE SAFE FOR PEDESTRIAN TRAFFIC PER ADA REQUIREMENTS, BE LOCKING, BE DUCTILE IRON, AND MEET H-10 LOADING.

YARD DRAIN

NTS



SECTION A-A



NOTES

A. THE INSERTA TEE GASKETED CONNECTION FITTING TYPE SHALL MATCH THE STORM SEWER MAIN MATERIAL AND BE MANUFACTURED BY INSERTA FITTINGS CO. OR EQUAL.

B. RECOMMEND CUTTING HOLE WITH A HOLE SAW FOR PVC PIPE AND A DIAMOND BIT FOR CONCRETE OR CLAY PIPE. THE HOLE SAW SIZE SHOULD FOLLOW THE MANUFACTURERS RECOMMENDATIONS. CONTRACTOR IS RESPONSIBLE TO FIX ANY LOOSE CONNECTIONS DUE TO IMPROPER HOLE SIZE.

C. INSERTA TEES SHALL BE USED WHEREVER POSSIBLE AND BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

INSERTA TEE (LATERAL TO MAIN) CONNECTION

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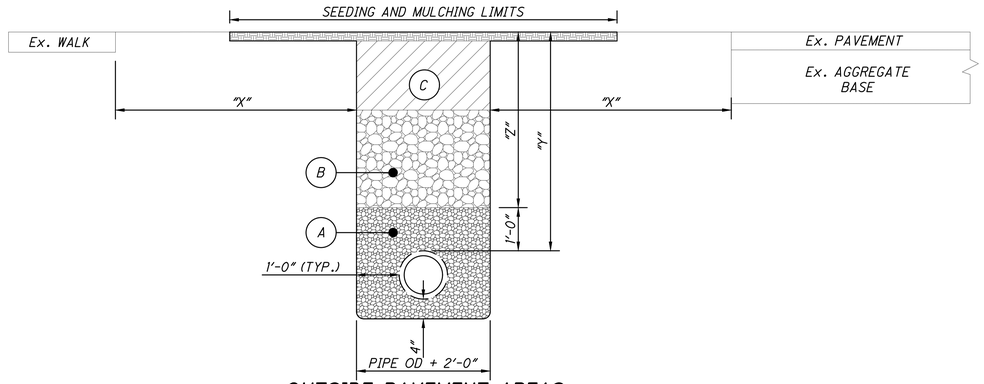
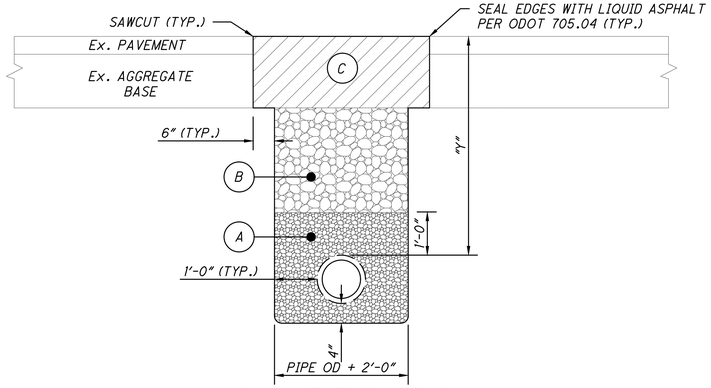


OUTSIDE PAVEMENT AREAS

"X"= DISTANCE FROM EDGE OF TRENCH TO EDGE OF CLOSEST PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS.

"Z"= DISTANCE FROM TOP OF BEDDING TO FINISH SURFACE.

"Y"= DEPTH OF COVER FOR PROPOSED CONDUIT
WATER MAINS.....4'-6" MIN. (REFER TO PROFILE)
STORM SEWERS.....2'-0" MIN. (REFER TO PROFILE)
SANITARY SEWERS.....4'-0" MIN. (REFER TO PROFILE)



IN PAVEMENT AREAS

NOTES

(A.) BEDDING SHALL BE PER ODOT 703.11 "STRUCTURAL BACKFILL FOR 611 BEDDING AND BACKFILL" TYPE 3 (#57 OR #67 AGGREGATE), OR OTHER APPROVED EQUIVALENT BY THE MUNICIPALITY. THERE SHALL BE 4" MIN. BEDDING BELOW THE PIPE. THE FOLLOWING BEDDING MATERIAL SHALL BE USED PER PROPOSED CONDUIT:

- WATER MAIN, WATER SERVICES, FIRE HYDRANTS AND APPURTENANCES - SHALL BE NATURAL CRUSHED STONE OR NATURAL GRAVEL.
- STORM AND SANITARY SEWERS - SHALL BE CRUSHED LIMESTONE OR NATURAL CRUSHED STONE.

(B.) STRUCTURAL BACKFILL - DENSITY TEST TO 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED BY MUNICIPALITY TO BE COMPLETED BY A CERTIFIED COMMERCIAL TESTING LABORATORY.

FOR "OUTSIDE PAVEMENT AREAS":
ALL TRENCHES WHERE "X" IS GREATER THAN "Z", THE BACKFILL MATERIAL SHALL BE COMPACTED NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE MUNICIPALITY. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 3" DIAMETER.

ALL TRENCHES WHERE "Z" IS GREATER THAN "X", THE BACKFILL MATERIAL SHALL BE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE). THE AGGREGATE SHALL BE COMPACTED IN 12" MAXIMUM LIFTS AND BE USED UNTIL THE BACKFILL HEIGHT RESULTS IN "X" BEING GREATER THAN "Z" AT WHICH TIME NATIVE BACKFILL CAN BE USED.

FOR "IN PAVEMENT AREAS":
ALL TRENCHES SHALL HAVE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE) BACKFILL PLACED FROM THE TOP OF THE BEDDING TO THE BOTTOM OF THE ROADWAY BASE.

(C.) ALL "OUTSIDE PAVEMENT AREAS" SHALL RECEIVE A MIN. OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED PER ODOT 659. ALL "IN PAVEMENT AREAS" SHALL FOLLOW THE CORRESPONDING PAVEMENT COMPOSITION PROVIDED IN THE HATCH LEGEND. THE TRENCH DETAIL SHOWS THE PAVEMENT REPAIR LIMITS. ANY PAVEMENT REPAIR BEYOND THIS WILL BE AT THE COST OF THE CONTRACTOR.

TRENCH DETAIL

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GENERAL NOTES AND DETAILS- 004

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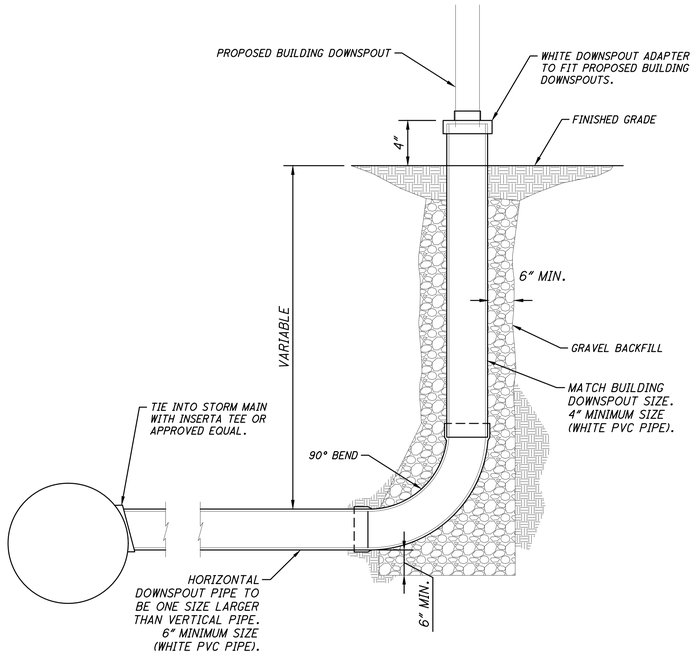

DOWNSPOUT CONNECTION DETAIL

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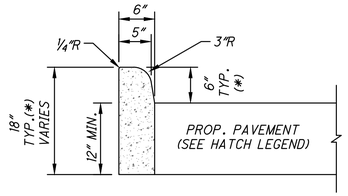

NOTES

A. (*) HEIGHT VARIES WITH CURB EXPOSURE. ASTERISK INDICATES PROPOSED TOP OF CURB SPOT GRADE ELEVATION WITH CURB EXPOSURE THAT VARIES FROM THE STANDARD 0.50' (6") CURB

B. CONCRETE WORK SHALL MEET THE REQUIREMENTS SET FORTH IN ODOT ITEM 609 CURBING.

C. CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10' AND EXPANSION JOINTS EVERY 100'.

D. MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING.

E. CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED OR AS SOON AS PRACTICAL WHEN SLIPFORMING PRIOR TO OTHER CONSTRUCTION OPERATIONS.

F. PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.

G. APPLY WHITE PIGMENTED CURING COMPOUND ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.

H. ALL CONCRETE SHALL BE ODOT QC-IP.

I. CONCRETE TO INCLUDE 3 LBS/CY OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO SYNTHETIC MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

TYPE 6 BARRIER CURB

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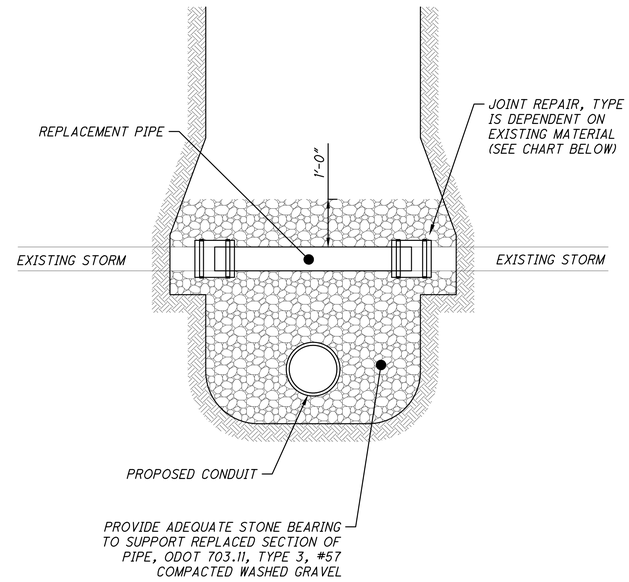

EXISTING PIPE MATERIAL	JOINT REPAIR
PVC	STAINLESS STEEL SOLID SLEEVE PLASTIC TO PLASTIC, PVC COUPLING ASTM D-3034/F-1336PSM OR EQUAL
OTHER THAN PVC (CLAY, DUCTILE, ETC.)	STAINLESS STEEL SOLID SLEEVE COUPLINGS WITH STAINLESS STEEL BANDS, EACH SIDE, OR EQUAL
CMP	CORRUGATED METAL PIPE COUPLING
RCP	CONCRETE COLLAR

NOTES

A. CONCRETE REPAIRS OR PATCHES ARE UNACCEPTABLE.

B. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR MUST BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ANYTHING REMOVED, REPLACED, AND/OR CONNECTED TO THE STORM SEWER MUST BE NOTED ON THE AS-BUILT DRAWINGS AND MUST BE INSPECTED BY THE INSPECTOR BEFORE THEY A RE-COVERED.

C. ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION MUST BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE MUNICIPALITY.

REPAIR OF EXISTING FIELD TILE OR STORM PIPE DETAIL

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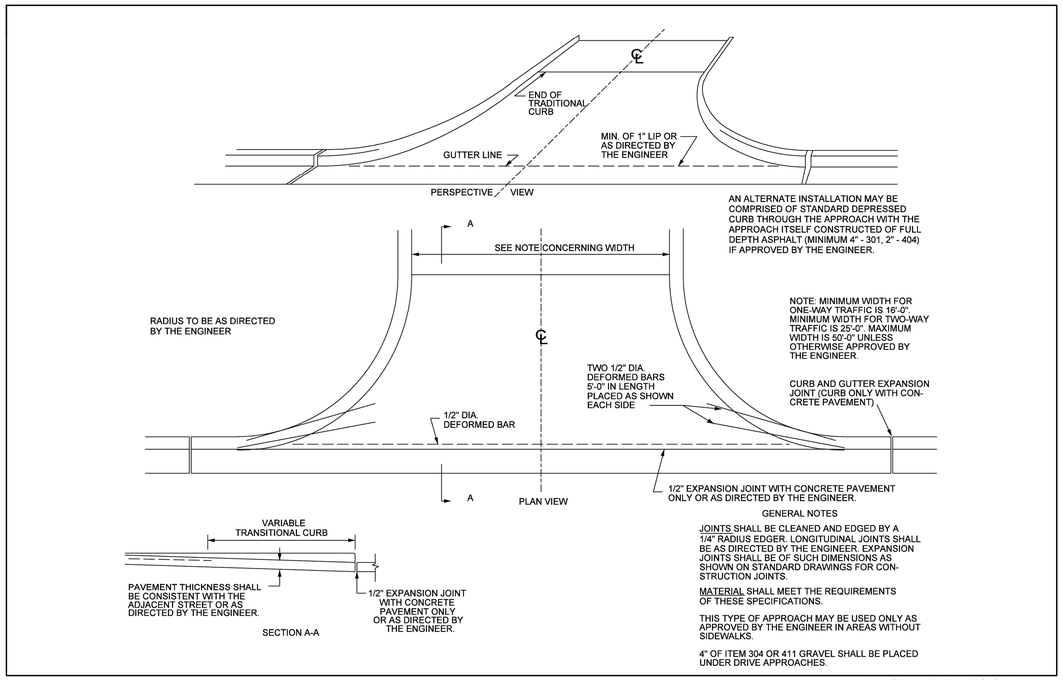

INDUSTRIAL DRIVE APPROACH 300-9

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GENERAL NOTES AND DETAILS- 005

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DATE: 05-18-2026
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NOTES FOR WATER INSTALLATION

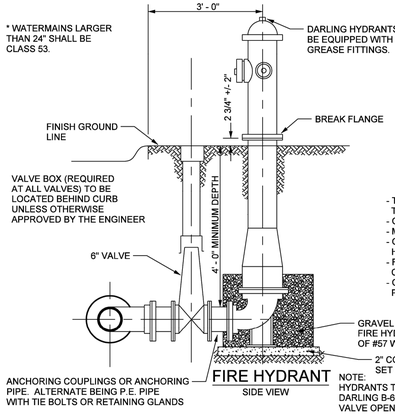
1. ALL WATER INSTALLATION SHALL BE IN ACCORDANCE WITH AWWA AND CITY OF VANDALIA SPECIFICATIONS AND WILL BE SUBJECT TO CITY OF VANDALIA INSPECTION AND ACCEPTANCE TEST.
2. ALL WATER MAINS SHALL BE DUCTILE CAST IRON PIPE AND SHALL BE DESIGNED IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.50 AND MANUFACTURED ACCORDING TO ANSI A21.51. METAL THICKNESS MINIMUM SHALL BE CLASS 51. * PIPE WILL BE CEMENT LINED AND BITUMINOUS SEAL COATED.
3. PIPE JOINTS FOR DUCTILE CAST IRON PIPE SHALL HAVE EITHER MECHANICAL JOINTS OR PUSH-ON JOINTS SIMILAR OR EQUAL TO CLOW BELL TITE WITH ANSI SPECIFICATION A21.11 RUBBER GASKET JOINTS.
4. FITTING JOINTS SHALL BE OF THE MECHANICAL JOINT TYPE ONLY AS PER ANSI SPECIFICATION A21.11, AND MANUFACTURED ACCORDING TO ANSI A21.10. FITTINGS SHALL BE TAR COATED INSIDE AND OUT.
5. ALL GATE VALVES SHALL CONFORM TO AWWA C509 - AWWA C515 RESILIENT WEDGE SEATING, AND FITTED WITH A 2" SQUARE OPERATING NUT. VALVE SHALL OPEN LEFT (COUNTER-CLOCKWISE DIRECTION).
6. ALL BENDS, TEES, AND HYDRANTS SHALL BE THOROUGHLY RESTRAINED WITH RESTRAINED PIPE AND OR ANCHOR COUPLING TO PREVENT MOVEMENT OF FITTINGS.
7. ANCHORING TEES AND COUPLINGS SHALL BE USED FOR FIRE HYDRANTS INSTEAD OF CONCRETE.
8. ALL WATER MAINS ARE TO HAVE A MINIMUM OF 4.5 FT. OF COVER FROM FINISHED GRADE.
9. ALL TRENCHES ARE TO HAVE ALL GRAVEL BACKFILL UNDER AND WITHIN 1.0 FT. OF ALL PAVING, DRIVEWAYS, ALLEYS AND SIDEWALKS.
10. AN OUTSIDE REMOTE READER IS REQUIRED FOR ALL NEW CONSTRUCTION UNLESS OTHERWISE APPROVED BY ENGINEER.
11. AFTER THE PIPE HAS BEEN LAID AND BACK-FILLED BETWEEN JOINTS, ALL NEWLY LAID PIPE OR ANY VALVED SECTION, SHALL BE SUBJECT TO A HYDROSTATIC GAUGE PRESSURE TEST OF 150 LB. PER SQ. INCH MINIMUM FOR A 2 HOUR TEST PERIOD. AT THE END OF THE 2 HOUR TEST, THE AMOUNT OF WATER REQUIRED TO RETURN THE TEST SECTION TO THE ORIGINAL TEST PRESSURE SHALL BE MEASURED.
12. ALL NEW SECTIONS OF PIPE SHALL BE DISINFECTED AND FLUSHED SATISFACTORILY THE REPLACEMENT WATER UPON TESTING SHALL SHOW A QUALITY COMPARABLE TO THAT IN THE REMAINDER OF THE EXISTING WATER SUPPLY SYSTEM.
13. PUBLIC HYDRANTS TO BE PAINTED THE FOLLOWING STANDARD CITY OF VANDALIA COLORS (OR EQUAL); SHERWIN-WILLIAMS KEM-LUSTRAL-LIGHT YELLOW F65Y44

    ALL PRIVATE HYDRANTS TO BE PAINTED RED.
14. ONE FIRE HYDRANT SHALL BE INSTALLED AT EACH STREET INTERSECTION WITH INTERMEDIATE SPACINGS BETWEEN HYDRANTS OF NO MORE THAN 500 FEET IN RESIDENTIAL AREAS, 300 FEET IN COMMERCIAL OR INDUSTRIAL AREAS.
15. VALVES SHALL BE INSTALLED ON EACH LEG OF TEES, CROSSES, ETC. WITH INTERMEDIATE SPACINGS BETWEEN VALVES OF NO MORE THAN 1000 FEET.
16. THE MINIMUM ALLOWABLE SIZE OF WATER MAINS SHALL BE 8 INCHES IN DIAMETER. * EXCEPT THAT THE SYSTEM SHALL BE DESIGNED TO MEET THE FOLLOWING MINIMUM CRITERIA WHICH MAY NECESSITATE THE USE OF LARGER MAINS:

    A) RESIDENTIAL AREAS-MINIMUM FIRE FLOW OF 1000 GPM AT A RESIDUAL PRESSURE OF 20 PSI.
    MINIMUM STATIC PRESSURE IN ALL MAINS OF 40 PSI.

    B) COMMERCIAL & INDUSTRIAL AREAS-AS REQUIRED BY THE INSURANCE SERVICES OFFICE OF OHIO. THIS DESIGN SHALL BE BASED UPON THE HAZEN-WILLIAMS EQUATION WITH C=120.

    * UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE ENGINEER AND FIRE CHIEF



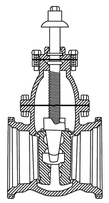
FIRE HYDRANT
SIDE VIEW

NOTE.
HYDRANTS TO BE MUELLER CENTURION A-423 DARLING B-62B OR EQUAL W. 5 1/4" MAIN VALVE OPENING.

RESTRAINED JOINT LENGTHS FOR WATER MAIN

	6"	8"	10"	12"	16"	24"
11.25°	3'	4'	5'	6'	8'	12'
22.5°	7'	9'	11'	12'	16'	24'
45°	14'	18'	22'	25'	33'	45'
90° TEE PLUG	33'	44'	53'	66'	98'	145'

FIRE HYDRANT SPECIFICATIONS
- TWO 2 1/2" HOSE NOZZLES, NATIONAL STANDARD THREADS
- ONE 4" PUMPER DISCHARGE WITH STORZ FITTING.
- MECHANICAL JOINT END INLET
- GATE VALVE INSTALLED BETWEEN FIRE HYDRANT AND MAIN WATER LINE
- FIRE HYDRANTS ARE TO OPEN COUNTER-CLOCKWISE.
- OPERATING NUT AND CAPS TO BE 1 1/8" PENTAGON (POINT TO OPPOSITE FLAT)



GATE VALVE
CROSS SECTION

VALVE SPECIFICATIONS
- VALVES ARE TO OPEN COUNTER-CLOCKWISE
- TO HAVE MECHANICAL JOINT ENDS
- TO HAVE BRONZE BUSHINGS
- VALVES TO BE EDDY F-5225 MUELLER A-2380-20 OR EQUAL
- ALL VALVES TO BE GATE VALVES UNLESS OTHERWISE SPECIFICALLY APPROVED IN WRITING BY THE CITY ENGINEER.

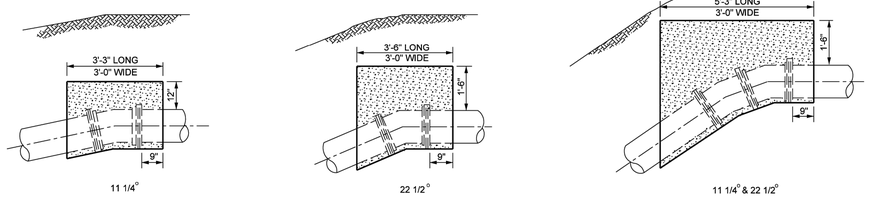
REVISED: 2/27/2024

FIRE HYDRANT & WATER INSTALLATION NOTES 800-1

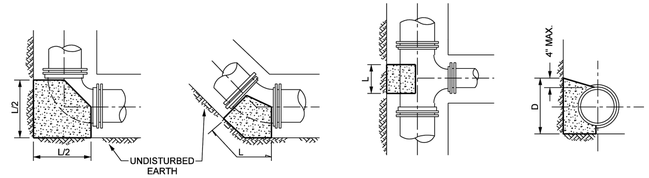
NOTE:
CLASS "A" CONCRETE TO BE USED FOR ALL BLOCKING.

NOTE:

BLOCKING MAY BE USED IN LIEU OF RESTRAINED JOINTS ONLY UPON RECEIPT OF WRITTEN PERMISSION FROM THE ENGINEER.



CONCRETE BLOCKING FOR VERTICAL BENDS



BENDS

SIZE OF PIPE	DEGREE OF BEND 11 1/4° L	D	22 1/2° L	D	45° L	D	90° L	D
3",4",6"	8"	6"	10"	6"	20"	6"	36"	6"
8"	9"	8"	14"	8"	24"	9"	50"	8"
12"	14"	12"	22"	12"	30"	16"	60"	15"
16"	18"	16"	24"	18"	33"	36"	70"	22"

TEES

RUN	BRANCH 3",4",6" L	D	8" L	D	12" L	D	16" L	D
3",4",6"	16"	7"						
8"	14"	8"	18"	12"				
12"	9"	12"	18"	12"	24"	18"		
16"	8"	16"	14"	16"	28"	16"	30"	26"

CONCRETE BLOCKING FOR HORIZONTAL BENDS

CONCRETE BLOCKING FOR WATER MAINS 800-4

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GENERAL NOTES AND DETAILS- 006

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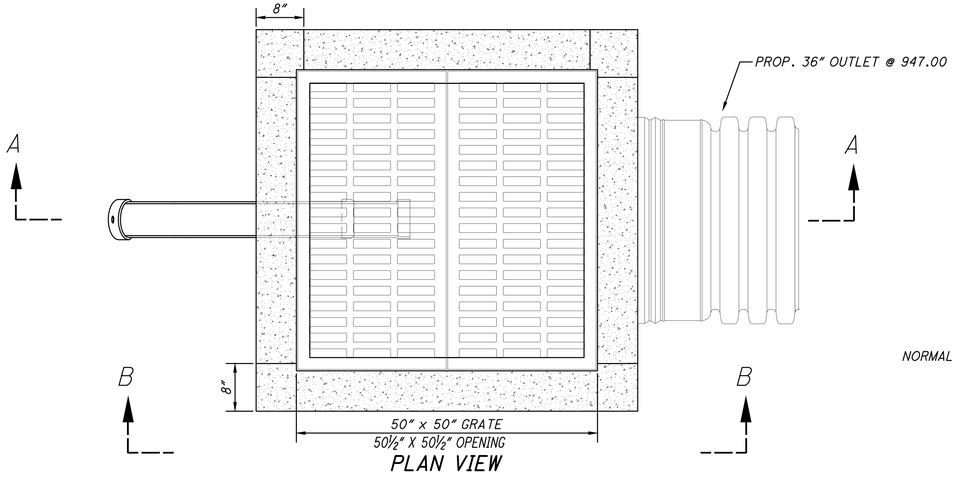
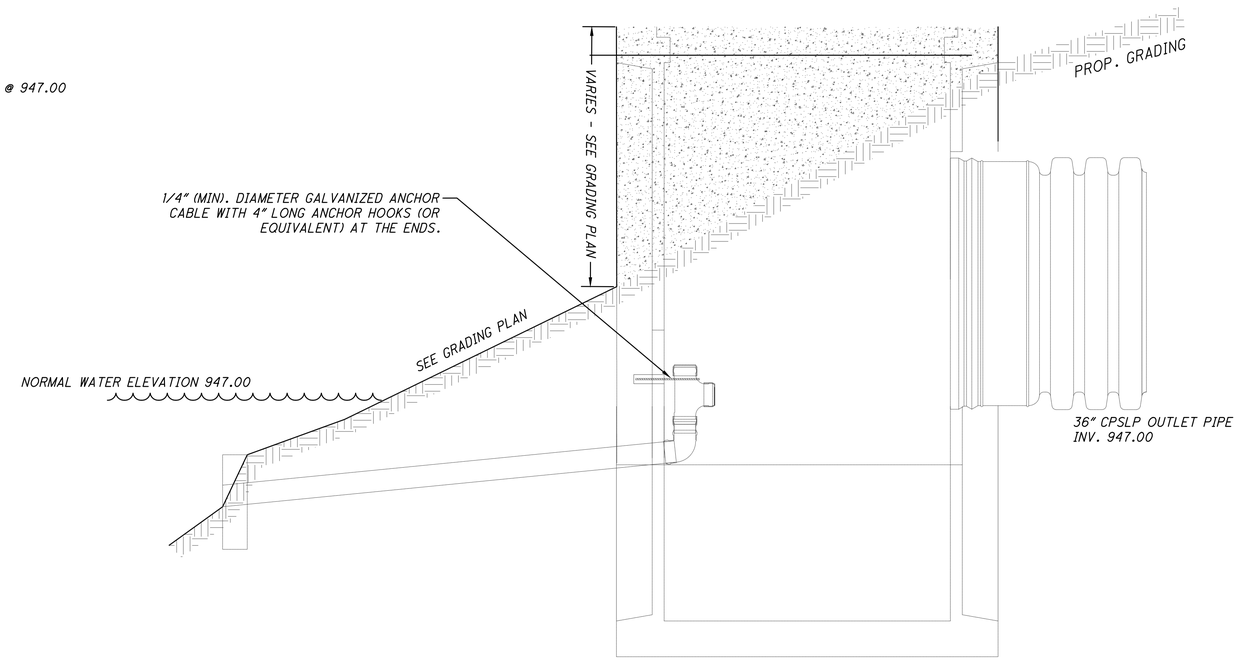


PLAN VIEW

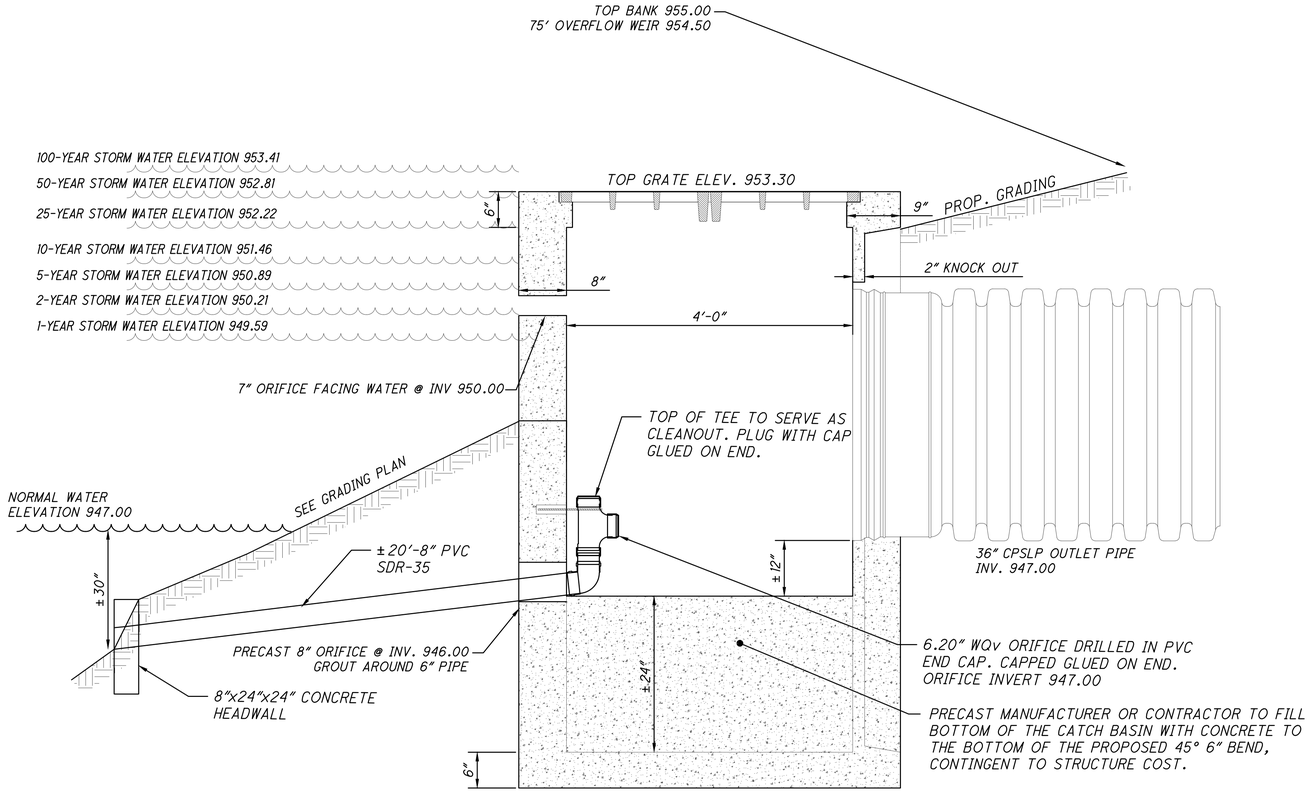


SECTION B-B

NOTES

A. GRATE SHALL BE NEENAH CATALOG NO. R-3438-A (TYPE A GRATE) OR EQUIVALENT. CONTRACTOR SHALL FASTEN/BOLT DOWN GRATE TO STRUCTURE TO ENSURE GRATE IS SECURELY FASTENED IN PLACE.

B. PRECAST CONSTRUCTION IS REQUIRED, UNLESS OTHERWISE APPROVED, AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13. KNOCKOUTS CAN BE PROVIDED IN PRECAST CONSTRUCTION. PRECAST WALLS SHALL HAVE A SUFFICIENT AMOUNT OF REINFORCEMENT TO PERMIT SHIPPING AND PLACEMENT WITHOUT DAMAGE.



SECTION A-A

2-4 CATCH BASIN #24 RETENTION POND OUTLET STRUCTURE

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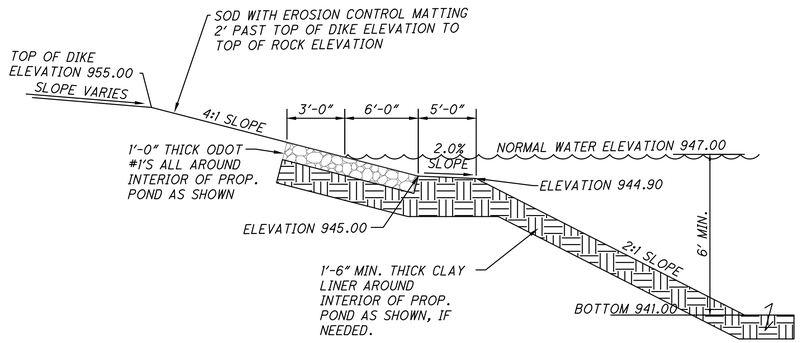

TYPICAL RETENTION POND DETAIL

RETENTION BASIN CLAY LINER NOTE

WHEN A RETENTION BASIN IS SHOWN, CONTRACTOR TO VERIFY SOIL IS SUITABLE TO HOLD WATER FOR PERMANENT POOL. IF FOUND THAT THE SOIL IS UNSUITABLE OR PERMANENTLY HOLDING WATER, AN 18" THICK COMPACTED CLAY LINER SHALL BE INSTALLED THROUGHOUT THE ENTIRE WET POOL PORTION OF THE RETENTION BASIN. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

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VANDALIA PUBLIC WORKS- SWPPP

CITY OF VANDALIA
BUTLER TOWNSHIP
MONTGOMERY COUNTY, OHIO

SWPPP TITLE SHEET C14
SWPPP GENERAL EROSION CONTROL NOTES AND DETAILS C15-C17
SWPPP SITE EROSION CONTROL PLAN C18

VICINITY MAP

SWPPP NOTE
THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR WDC GROUP FOR THE PERFORMANCE OF VANDALIA PUBLIC WORKS FACILITY IN MONTGOMERY COUNTY, OHIO. ALL WORK SHALL BE PER AND COMPLY WITH THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT, PERMIT #OHC000006. THIS INCLUDES FILING A CO-PERMITTEE NOI FORM WITH THE OEPA FOR ALL OPERATORS ENGAGED IN SITE WORK ON THE SITE. CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS, INSTALLATION, MAINTENANCE AND REQUIREMENTS OF ODOT'S CURRENT SUPPLEMENTAL SPECIFICATION 832 "TEMPORARY SEDIMENT AND EROSION CONTROL." COMPLIANCE WITH SUPPLEMENTAL SPECIFICATION 832 SHALL INCLUDE THE STANDARD CONSTRUCTION DRAWING REFERENCES LISTED IN SECTION 832.03, BUT SHALL NOT INCLUDE SECTION 832.11 "INSPECTIONS AND SWPPP UPDATES." ALL INSPECTIONS AND SWPPP UPDATES SHALL BE PER THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT, PERMIT #OHC000006. ALL WORK SHALL ALSO BE PER THE CURRENT ODOT CMS 107.19. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH LOCAL STORMWATER AND EROSION CONTROL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH AND INSTALLING ALL ITEMS NOTED AND AS REQUIRED BY OEPA AND LOCAL AUTHORITIES FOR MEETING ALL STORM WATER POLLUTION PREVENTION REQUIREMENTS. WDC GROUP AND THE SELECTED CONTRACTOR SHALL BE THE RESPONSIBLE PARTY IN CHARGE OF THE SWPPP AND ASSOCIATED BMP'S.

SITE DATA
LOCATION SOIL TYPES_____BROOKSTON SILTY CLAY LOAM, CROSBY SILT LOAM
EARTH DISTURBED AREA_____13.54 ACRES
PROPOSED IMPERVIOUS AREA ADDED:_____9.00 ACRES
PRE-CONSTRUCTION RUNOFF COEFFICIENT:____0.40
POST-CONSTRUCTION RUNOFF COEFFICIENT:___0.75
DESCRIPTION OF PRIOR LAND USE_____AGRICULTURAL LAND
EXISTING QUALITY OF DISCHARGE FROM SITE___UNTREATED PERVIOUS RUNOFF
IMMEDIATE RECEIVING WATERS:_____ON-SITE RETENTION BASIN
SUBSEQUENT RECEIVING WATERS:_____UNNAMED TRIBUTARY TO GREAT MIAMI RIVER
LATITUDE 39.900608° LONGITUDE -84.180658°

WATERS EDGE NOTE
ALL MATERIAL AND EQUIPMENT STAGING OR STORAGE AREAS, DEWATERING AREAS, CONCRETE TRUCK WASH OUT AREAS, CONSTRUCTION ACCESS LOCATIONS, AND VEHICLE FUELING AND REFUELING LOCATIONS MUST BE LOCATED A MINIMUM OF 100' FROM ANY CREEK/RIVER/STREAM WATERS EDGE.

CLEAN STORM SYSTEM NOTE
IMMEDIATELY PRIOR TO FINAL COMPLETION OF THE PROJECT, CONTRACTOR SHALL ENSURE THE ENTIRE STORM SYSTEM, INCLUDING BUT NOT LIMITED TO, THE DETENTION/RETENTION BASIN(S), CATCH BASINS, MANHOLES, PIPING, UNDERDRAINS AND UNDERDRAIN TRENCHES ARE FREE FROM SEDIMENTATION AND OTHER POLLUTANTS AND FOREIGN MATERIALS AND ARE TO BE CLEANED AS NEEDED TO ENSURE MAXIMUM STORMWATER QUALITY AND FULL FUNCTIONALITY.

OFFSITE CONSTRUCTION ACTIVITIES
IT IS EXPECTED ALL CONSTRUCTION ACTIVITIES WILL TAKE PLACE ON SITE.

SPILL REPORTING REQUIREMENTS
IN THE EVENT OF A SMALL RELEASE (LESS THAN 25 GALLONS) OF PETROLEUM WASTE, SPECIAL HANDING PROCEDURES MUST BE USED. IN THE EVENT OF A LARGE RELEASE (25 GALLONS OR MORE) OF PETROLEUM WASTE, YOU MUST CONTACT THE OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

VEHICLE FUELING
VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED VIA A SMALL REFUEL TANK ON THE BACK OF A PICK-UP TRUCK.

OPEN BURNING NOTE
OPEN BURNING IS NOT PERMITTED IN THE CORPORATION LIMIT.

CONTACT INFORMATION
FACILITY SITE LOCATION: NORTHWOODS BOULEVARD , VANDALIA, OHIO 45377
OWNER: CITY OF VANDALIA, ROB CRON, 937-415-2323, 333 JAMES E BOHANAN DRIVE, VANDALIA, OH 45377, rcron@vandaliaohio.org
SWPPP CONTACT/CONTRACTOR CONTACT - TBD

SWPPP AND INSPECTION REPORTS LOCATION
NOTE: THE SWPPP AND INSPECTION REPORTS WILL BE KEPT ON-SITE IN THE JOB TRAILER/FOREMAN'S PICK-UP.

WASTE DISPOSAL NOTE
CONTAINERS (e.g. DUMPSTERS, DRUMS) MUST BE AVAILABLE FOR THE DISPOSAL OF DEBRIS, TRASH, HAZARDOUS MATERIAL AND PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF.

CLEAN HARD FILL NOTE
NO CLEAN CONSTRUCTION WASTES SHALL BE DISPOSED OF INTO THE PROPERTY.

FUELING AND STAGING NOTE
CONTRACTOR'S STAGING AND STORAGE AREA WILL BE LOCATED WITHIN CONSTRUCTION LIMITS OF THE PROJECT. FUEL TANKS AND OTHER HAZARDOUS MATERIALS TO BE SAFELY STORED, PROTECTED, AND PROPERLY HANDLED BY CONTRACTOR. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STAGING/STORAGE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ANY WASTE MATERIALS.

SOIL STOCKPILE NOTE
CONTRACTOR'S SHALL LOCATE SOIL STOCKPILE AREAS WITHIN THE PROJECT AREA SO AS NOT TO BE WITHIN THE IMMEDIATE PROXIMITY OF ANY SURFACE WATERS OR STORM INLET STRUCTURES. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STOCKPILE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO INSTALLING FILTER FABRIC FENCE AROUND STOCKPILE, TEMPORARILY COVERING THE STOCKPILE AND/OR TEMPORARILY SEEDING THE STOCKPILE.

DEWATERING NOTE
PUMPING OF SEDIMENT LADEN WATER FROM TRENCHES OR ANY OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, DITCH OR STREAM CORRIDORS, ANY WETLANDS OR STORM SEWERS IS PROHIBITED. ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SOIL PARTICLES PRIOR TO ITS RELEASE. IF AN AREA OF THE SITE OR TRENCH NEEDS DEWATERED, IT SHOULD BE PUMPED FROM A SUMP PIT WITH A SOCK FILTER OR OTHER TYPE OF FILTERING DEVICE ON THE DISCHARGE OF THE HOSE. DO NOT ALLOW DISCHARGED WATER TO PASS OVER DISTURBED GROUND. IF THE DISCHARGE WATER IS BEING PUMPED INTO A SEDIMENT POND THEN NO FILTER IS REQUIRED AT THE END OF THE HOSE. IF THE GROUNDWATER MUST BE LOWERED, THE WATER MAY BE FREELY DISCHARGED AS LONG AS THE WATER REMAINS CLEAN. DO NOT CO-MINGLE CLEAN GROUND WATER WITH SEDIMENT LADEN WATER OR DISCHARGE IT BY ALLOWING IT TO PASS OVER DISTURBED GROUND.

LOG/DOCUMENTATION SHEETS
AS PART OF THE SWPPP, THE CONTRACTOR SHALL MAINTAIN LOG/DOCUMENTATION SHEETS FOR THE FOLLOWING:
1) A SIGNATURE LOG CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE SWPPP AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWPPP.
2) A GRADING AND STABILIZATION LOG DOCUMENTING THE PROJECTS GRADING AND STABILIZATION ACTIVITIES AND
3) A SWPPP AMENDMENT LOG DOCUMENTING CHANGES/AMENDMENTS TO THE SWPPP, WHICH OCCUR AFTER CONSTRUCTION ACTIVITIES COMMENCE.

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MAY 18, 2026

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PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION A NEW BUILDINGS AND ASSOCIATED DRIVES AND PARKING. SITE WORK TO INCLUDE STORM SEWER, SANITARY SEWER, WATER, SITE GRADING, PAVEMENT WORK AND BUILDING CONSTRUCTION.

PROJECT WORK CONSTRUCTION DATES
START: SPRING 2026
ESTIMATED COMPLETION: FALL 2026

EROSION CONTROL NOTES
A. INSTALL AND MAINTAIN FILTER FABRIC FENCE AND INLET PROTECTION WHERE SHOWN AND AS NEEDED TO MINIMIZE SEDIMENT LADEN WATER FROM LEAVING THE SITE OR ENTERING ANY STORM SYSTEM, ADJACENT DITCHES, STREAMS ETC. IF STORMWATER RUNOFF CONTAINING SEDIMENTS IS FOUND TO BE LEAVING THE PROJECT SITE IN AN AREA WHERE NO BMP/CONTROL MEASURE IS SHOWN OR IN PLACE, CONTRACTOR SHALL IMMEDIATELY INSTALL THE APPROPRIATE BMP/CONTROL MEASURE AS NEEDED TO REMEDY THE SITUATION (TYP. INLET PROTECTION, FILTER FABRIC FENCE, ETC.).

B. INSTALL INLET PROTECTION ON ALL STORM INLET STRUCTURES (YARD DRAINS, CATCH BASINS, MANHOLES WITH GRATED LIDS, ETC.) AND TO ANY EXISTING STORM STRUCTURES WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE AS NEEDED. INLET PROTECTION MAY CONSIST OF DEVICES SUCH AS SEDCAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, FLEXSTORM INLET FILTERS, SEDIMENT FENCE OR OTHER DEVICES WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE.

C. CONTRACTOR IS RESPONSIBLE FOR IMMEDIATELY CLEANING UP ANY MUD, DIRT AND DEBRIS WHICH IS TRACKED OR SPILLED ONTO THE ROADWAYS.

D. PRE CONSTRUCTION - CONTRACTOR IS RESPONSIBLE TO INSTALL A CONSTRUCTION ENTRANCE AS NEEDED TO MINIMIZE ANY MUD, DIRT AND DEBRIS TRACKED ONTO THE ROADWAYS.

E. DURING CONSTRUCTION - THE CONTRACTOR MUST MAINTAIN EROSION CONTROL UNTIL AREA IS STABILIZED INCLUDING TEMPORARY SEEDING AS NEEDED. CONTRACTOR SHALL TEMPORARYILY SEED ALL CRITICAL EXPOSED SLOPES TO MINIMIZE SEDIMENT RUNOFF.

F. FINAL/POST CONSTRUCTION - CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. CONTRACTOR SHALL ENSURE GRASS IS PERMANENTLY AND PROPERLY ESTABLISHED IN ALL AREAS WHERE GRASS IS SPECIFIED. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, INCLUDING SEDIMENT FENCE, SHALL REMAIN IN PLACE UNTIL GRASS IS IN PLACE AND SITE IS STABILIZED. ONCE SITE IS STABILIZED AND ALL CONSTRUCTION IS COMPLETE, ALL SEDIMENT FENCE, INLET PROTECTION AND ANY OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE.

BMP NOTES
FOR ALL BMP'S INSTALLED, ENSURE THAT THE PONDING OF WATER BEHIND THE BMP WILL NOT DAMAGE PROPERTY OR POSE A SAFETY THREAT. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL MEASURE/BMP HAS BEEN USED INAPPROPRIATELY, THE CONTRACTOR MUST REPLACE AND ADJUST THE CONTROL/BMP TO MEET SITE CONDITIONS AS REQUIRED. THE CONTRACTOR SHALL ADJUST THE SWPPP AND ITS CONTROLS/BMPS AND THEIR QUANTITIES TO MEET FIELD CONDITIONS AND THE OHIO EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION ACTIVITIES GENERAL PERMIT.

MAINTENANCE NOTE
THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP-SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE SWP3 SHALL BE DESIGNED TO MINIMIZE MAINTENANCE REQUIREMENTS. THE APPLICANT SHALL PROVIDE A DESCRIPTION OF MAINTENANCE PROCEDURES NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES.

SWPPP AND INSPECTION AVAILABILITY AND UPDATES NOTE
THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE SWPPP AND INSPECTION REPORTS ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM AND DOCUMENT ALL REQUIRED SWPPP INSPECTIONS AND ALL UPDATES AND AMENDMENTS TO THE SWPPP.

DOCUMENTATION AND GOVERNMENT INSPECTION NOTE
CONTRACTOR(S) SHALL PROVIDE THE OWNER'S REPRESENTATIVE A WRITTEN COPY OF THEIR CO-PERMITTEE APPLICATION AND ANY OTHER DOCUMENTATION THE CONTRACTOR(S) MAY SEND OR RECEIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITIES.

IF AN INSPECTOR OR REPRESENTATIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITY IS ON-SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND NOTIFY THE OWNER'S REPRESENTATIVE.

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VANDALIA, OHIO 45377

SWPPP TITLE SHEET

PROJECT NO.:	23014
DRAWN BY:	JMK
DATE:	05-18-2026
CHECKED BY:	MLS

C14
24 OF 112

IMPLEMENTATION SCHEDULE (EROSION CONSTRUCTION SEQUENCE)

THE CONTRACTOR OR ITS APPOINTED REPRESENTATIVES WILL ASSUME RESPONSIBILITY FOR INSTALLATION, INSPECTION AND MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION. THE INSTALLATION OF THE SOIL EROSION CONTROL MEASURES WILL BE COMPLETED, AS FOLLOWS:

A. PRIOR TO ANY GRADING OR EARTHWORK:
A-1. SILT FENCE AND INLET PROTECTION (ON EX. STORM STRUCTURES) TO BE INSTALLED AS SHOWN ON SWPPP
A-2. INSTALL CONSTRUCTION ENTRANCE(S) IF NEEDED AS SHOWN ON SWPPP. INSTALLATION OF ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES, E.G. ROCK CHECK DAMS, CONCRETE WASHOUT PIT, SEDIMENT BASIN, ETC.
B. PERFORM ROUGH GRADING, INSTALL UTILITIES, BUILDINGS, PAVEMENT:
B-1. CLEAR AND GRUB AREA AS NEEDED
B-2. PERFORM SITE GRADING. INSTALL BUILDING(S)
B-3. INSTALL SANITARY, STORM, WATER LINES, OTHER UTILITIES, GRAVEL BASE, AND CURB AND GUTTER, AS PER PLANS). INSTALL INLET PROTECTION ON ALL PROPOSED STORM INLET STRUCTURES AS INDICATED ON THE PLANS AS SOON AS THEY ARE INSTALLED.
B-4 PERFORM TEMPORARY SEEDING AS NEEDED ON ANY DISTURBED AREAS PER THE TIME REQUIREMENTS FOR TEMPORARY SEEDING SPECIFIED ON THIS DRAWING.
B-5 INSTALL PAVEMENT.
C. PERFORM FINAL GRADING:
C-1. PLACE TOPSOIL AND PERFORM FINAL RAKING AND GRADING ON ALL DISTURBED AREAS.
C-2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED (SEEDED AND/OR MULCHED).
C-3. CLEAN UP SITE, AND ONCE SITE HAS REACHED FINAL STABILIZATION REMOVE ALL TEMPORARY BMP'S.

NOTES: A) CARE WILL BE TAKEN NOT TO DISTURB ANY EXISTING NATURAL VEGETATION NOT INVOLVED IN THE CONSTRUCTION PROCESS, WHENEVER POSSIBLE. B) TIMELY INSPECTIONS OF THE EROSION CONTROL MEASURES WILL BE MADE, BY THE CONTRACTOR, EVERY 7 DAYS, AND/OR AFTER ANY RAINFALL OF AT LEAST 1/2" IN A 24-HOUR PERIOD. REPORTS MUST BE KEPT ON-SITE AND SUPPLIED TO THE GOVERNING AUTHORITY IF REQUESTED.

INSPECTION SCHEDULE

A. THE SITE WILL BE INSPECTED PER OHIO EPA PERMIT No. OHC000006:

PART III.G.2.:
INSPECTIONS. THE PERMITTEE SHALL ASSIGN QUALIFIED INSPECTION PERSONNEL TO CONDUCT INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROPOSED IN PART III.G.1.H OF THE OHC000006 PERMIT OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. AT A MINIMUM, PROCEDURES IN A SWP3 SHALL PROVIDE THAT ALL CONTROLS ON THE SITE ARE INSPECTED:
* AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24-HOUR PERIOD BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED; AND
* ONCE EVERY SEVEN CALENDAR DAYS.

THE INSPECTION FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH FOR DORMANT SITES IF:
* THE ENTIRE SITE IS TEMPORARILY STABILIZED OR
* RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR EXTENDED PERIODS OF TIME (E.G. SITE IS COVERED WITH SNOW, ICE, OR THE GROUND IS FROZEN).

THE BEGINNING AND ENDING DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE DOCUMENTED IN THE SWP3. ONCE A DEFINABLE AREA HAS ACHIEVED FINAL STABILIZATION, THE AREA MAY BE MARKED ON THE SWP3 AND NO FURTHER INSPECTION REQUIREMENTS SHALL APPLY TO THAT PORTION OF THE SITE.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:
i. THE INSPECTION DATE;
ii. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
iii. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
iv. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
v. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
vi. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
vii. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
viii. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
ix. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.

THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

i. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT SHALL BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS SHALL BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION.

ii. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

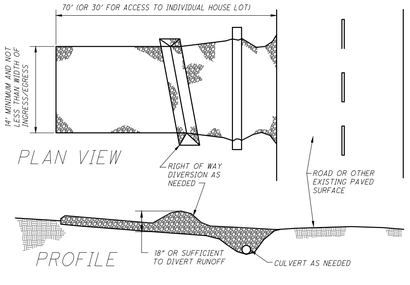
iii. WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART III.G.1.H OF THIS PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD SHALL CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.

B. VEGETATIVE PLANTINGS - SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR EARLY FALL.
C. REPAIRS - ANY EROSION CONTROL MEASURES, STRUCTURAL MEASURES, OR OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.
D. MOWING - DRAINAGE WAYS, DITCHES, AND OTHER AREAS THAT SUPPORT A DESIGNED FLOW OF WATER WILL BE MOWED REGULARLY TO MAINTAIN THAT FLOW.
E. FERTILIZATION - SEEDED AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER WILL BE INSPECTED AND FERTILIZED AS NECESSARY.

CONSTRUCTION ENTRANCE

A. STONE SIZE - 2" STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
B. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS, BUT NOT LESS THAN 70' (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
C. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6" THICK.
D. WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
E. BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
F. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE, IF NEEDED, TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES (IF DRIVE IS PLACED ACROSS A DITCH).
G. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE, IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES (IF DRIVE IS PLACED ON A SLOPE).
H. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
I. CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFFSITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
J. CONSTRUCTION ENTRANCES ARE INSTALLED TO MINIMIZE OFFSITE TRACKING OF SEDIMENTS. A STONE ACCESS DRIVE SHOULD BE INSTALLED AT EVERY POINT WHERE VEHICLES ENTER OR EXIT THE SITE. EVERY INDIVIDUAL LOT SHOULD ALSO HAVE ITS OWN DRIVE ONCE CONSTRUCTION ON THE LOT BEGINS.

NOTE: ALTERNATIVE STABILIZATION METHODS FOR CONSTRUCTION ENTRANCE/EXIT SUCH AS MANUFACTURED STEEL PLATES, GRID PLATES, ETC. OR STEEL PIPES/GRATINGS WILL ALSO BE CONSIDERED BUT WILL REQUIRE WRITTEN APPROVAL FROM THE OWNER PRIOR TO THE USE OF SUCH ALTERNATIVE METHODS AS ON-SITE CONSTRUCTION ENTRANCES/EXIT. ANY PROPOSED ALTERNATIVE METHODS SHALL BE SHOWN TO EFFECTIVELY REMOVE MUD AND DEBRIS FROM VEHICLE WHEELS PRIOR TO EXITING THE SITE.



CONSTRUCTION ENTRANCE DETAIL

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NON-SEDIMENT POLLUTION CONTROL

A. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES:

DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE

DO:
* PREVENT SPILLS
* USE PRODUCTS UP
* FOLLOW LABEL DIRECTIONS FOR DISPOSAL
* REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
* RECYCLE WASTE WHENEVER POSSIBLE

DON'T
* DON'T POUR INTO WATERWAYS, STORM DRAINS, OR ONTO THE GROUND
* DON'T POUR DOWN THE SINK, FLOOR DRAIN, OR SEPTIC TANKS
* DON'T BURY CHEMICALS OR CONTAINERS
* DON'T BURN CHEMICALS OR CONTAINERS
* DON'T MIX CHEMICALS TOGETHER

B. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM, AND ANY HAZARDOUS MATERIALS TO BE USED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.

C. NO WASTE MATERIALS SHALL BE BURIED ON SITE. SITE PERSONNEL, INCLUDING SUBCONTRACTORS, SHALL BE NOTIFIED THAT NO CONSTRUCTION-RELATED MATERIALS ARE TO BE BURIED ON SITE.

D. MIXING, PUMPING, TRANSFERRING, OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN.

E. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.

F. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER.

G. IF HAZARDOUS SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. CONTACT OHIO EPA (1-800-282-9378).

H. SPILLS OF 25 GAL. OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE.

I. STREETS NEED TO BE SWEPT AS OFTEN AS NECESSARY TO KEEP THEM CLEAN AND FREE FROM SEDIMENT. SEDIMENT TO BE SWEPT BACK ONTO THE LOT - NOT DOWN THE STORM SEWER.

J. STOCKPILES OF SOIL AND OTHER MATERIALS SHALL BE STORED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, AND SHALL HAVE EROSION CONTROL MATERIALS PLACED AROUND THEM.

K. ALL STREAM CROSSINGS SHALL BE CONSTRUCTED ENTIRELY OF NON-ERODIBLE MATERIAL.

PROCESS WASTEWATER/LEACHATE MANAGEMENT NOTE

ALL PROCESS WASTEWATERS (e.g. EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, AND CONCRETE WASH-OUTS) MUST BE COLLECTED AND DISPOSED OF PROPERLY (e.g. TO A PUBLICLY-OWNED TREATMENT WORKS). THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT ONLY AUTHORIZES THE DISCHARGE OF STORM WATER AND CERTAIN UNCONTAMINATED NON-STORM WATERS. THE DISCHARGE OF NON-STORM WATERS TO WATERS OF THE STATE MAY BE IN VIOLATION OF LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS.

HANDLING OF TOXIC OR HAZARDOUS MATERIALS NOTE

NO SOLID, SANITARY, OR TOXIC WASTE IS TO BE DISPOSED OF ON THE PROJECT SITE. RECYCLING OF USED OR UNUSED HAZARDOUS MATERIALS SHALL NOT OCCUR ON SITE EITHER. AREAS DESIGNATED FOR CEMENT TRUCK WASHOUTS, AND VEHICLE FUELING SHALL NOT TAKE PLACE ON PARKING LOT BASE.

CONSTRUCTION CHEMICAL COMPOUNDS NOTE

NO MIXING OR STORAGE OF CHEMICAL COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE ARE PERMITTED TO TAKE PLACE ON-SITE. ALL MIXING SHALL TAKE PLACE BEFORE ENTERING THE SITE.

CONSTRUCTION & DEMOLITION DEBRIS NOTE

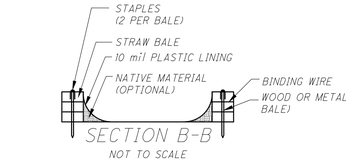
ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 3745-20).

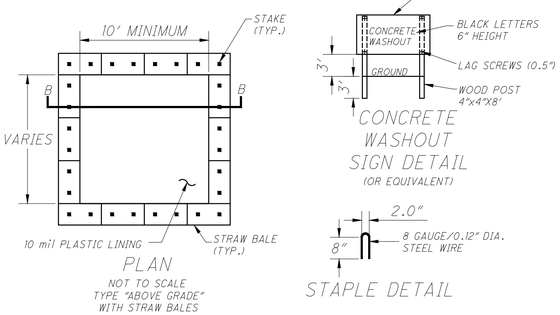
CONTAMINATED SOILS NOTE

SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS SHALL BE HANDLED AND DISPOSED OF PROPERLY. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED OF IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDFs). IF CONTAMINATION HAPPENS TO OCCUR, TARPS ARE TO BE USED TO PREVENT STORM WATER FROM COMING INTO CONTACT WITH THE MATERIAL.

CONCRETE WASHOUT NOTE

CONCRETE WASHOUT OPERATIONS SHALL TAKE PLACE WITHIN THE PROPOSED PROJECT AREA UTILIZING THE CONTRACTOR'S PORTABLE CONCRETE WASHOUT CONTAINER OR WITHIN A BERMED/CONTAINED AREA. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE WASHOUT MATERIAL DOES NOT LEAVE THE WASHOUT AREA OR ENTER THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL LEFTOVER WASHOUT MATERIAL.





CONCRETE WASHOUT DETAIL

DUST CONTROL

DUST CONTROL SHALL BE PROVIDED AS NEEDED TO PREVENT SEDIMENT FROM BECOMING AIRBORNE. MEASURES SHALL INCLUDE WATERING VIA A WATER TRUCK OR OTHER WATERING DEVICE AS NEEDED TO REDUCE AND/OR ELIMINATE AIRBORNE DUST CREATED BY CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES.

CONSTRUCTION OF A FILTER BARRIER (SILT FENCE)

A. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

B. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

C. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

D. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

E. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

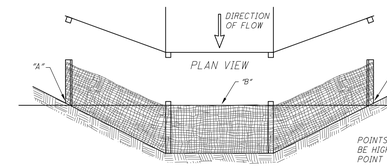
F. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE.

G. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

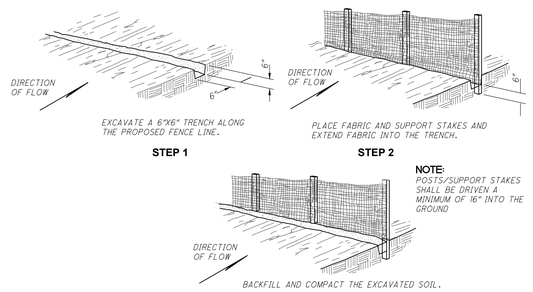
H. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH IS BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

I. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

J. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. ALL THE GAPS AND TEARS IN THE FENCE MUST BE ELIMINATED AND REPAIRED. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.



DITCH CHECK FILTER FABRIC FENCE



DITCH CHECK FILTER FABRIC FENCE

FILTER FABRIC FENCE DETAIL

CRITERIA FOR SILT FENCE MATERIAL

A. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 48" LONG. WOOD POSTS WILL BE 2"-BY-2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 5'. POSTS/SUPPORT STAKES SHALL BE DRIVEN A MINIMUM OF 16" INTO THE GROUND.

B. SILT FENCE FABRIC SHALL CONFORM TO THE AASHTO SILT FENCE SPECIFICATION 100X AND SHALL HAVE A MINIMUM 100# GRAB TENSILE. SILT FENCE SHALL ALSO CONFORM TO THE MOST RECENT ODOT STANDARD FOR SEDIMENT/SILT FENCE (TABLE 712.09-1)

C. SILT FENCE SHALL BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PERMANENT STABILIZATION

ALL AREAS AT FINAL GRADE MUST BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. THIS IS USUALLY ACCOMPLISHED BY USING SEED AND MULCH, BUT SPECIAL MEASURES ARE SOMETIMES REQUIRED. THIS IS PARTICULARLY TRUE IN DRAINAGE DITCHES/SWALES, LOW AREAS, DETENTION POND BOTTOMS AND SIDES OR ON STEEP SLOPES. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, THE INSTALLATION OF EROSION CONTROL BLANKETS AND/OR MATTING, ADDITION OF TOPSOIL, OR ROCK RIP-RAP. CONTRACTOR SHALL UTILIZE THESE AND ANY OTHER SPECIAL MEASURES AS NEEDED TO PERMANENTLY STABILIZE THE SITE. PERMANENT SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 AND AUGUST 1 TO SEPTEMBER 30. DORMANT SEEDING CAN BE DONE FROM NOVEMBER 20 TO MARCH 15. AT ALL OTHER TIMES OF THE YEAR, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL A PERMANENT SEEDING CAN BE APPLIED.

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.) AND AT FINAL GRADE	WITHIN 2 DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE.	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

SOILS EXPOSED NOTE

CONTRACTOR SHALL PLAN AND IMPLEMENT CONSTRUCTION AND GRADING ACTIVITIES TO MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITIES.

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1000 SQ. FT.	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHELS
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
	PERENNIAL RYEGRASS	1	40 LBS.
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHELS
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
	WHEAT	1	2 BUSHELS
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
	PERENNIAL RYEGRASS	1	40 LBS.
	TALL FESCUE	1	40 LBS.
	ANNUAL RYEGRASS	1	40 LBS.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.			

SPECIFICATIONS FOR TEMPORARY SEEDING

A. TO MINIMIZE COSTS OF TEMPORARY STABILIZATION, LEAVE NATURAL COVER IN PLACE FOR AS LONG AS POSSIBLE. ONLY DISTURB AREAS YOU INTEND TO WORK WITHIN THE NEXT 14 DAYS.

B. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

C. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

D. SOIL AMENDMENTS - APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

E. SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY PLACED USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

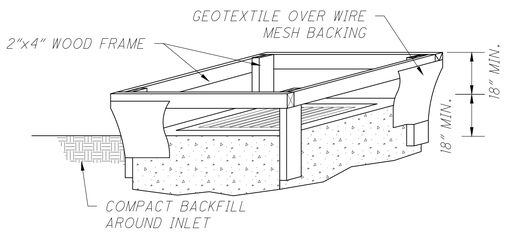
MULCHING TEMPORARY SEEDING

A. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

B. MATERIALS:
- STRAW - IF STRAW IS USED, IT SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACRE OR 90 LBS./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUT

INLET PROTECTION FOR STORM STRUCTURES W/ GRATE

INLET PROTECTION MAY CONSIST OF SEDIMENT FENCE AND/OR DEVICES SUCH AS FLEX STORM INLET FILTERS, SEDCAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, OR OTHER DEVICES (ALTERNATE PRODUCTS WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED) WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE . INSTALL INLET PROTECTION ON ALL PROPOSED YARD DRAINS, CATCH BASINS AND MANHOLES WITH GRATED LIDS AND TO ALL EXISTING STORM STRUCTURES WITH GRATED LIDS WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.



NOTES

A. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.

B. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18".

C. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2" BY 4" CONSTRUCTION GRADE LUMBER. THE 2" BY 4" POST SHALL BE DRIVEN 1' INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2" BY 4" FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6" BELOW ADJACENT ROAD, IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

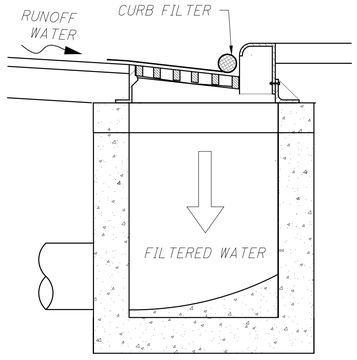
D. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.

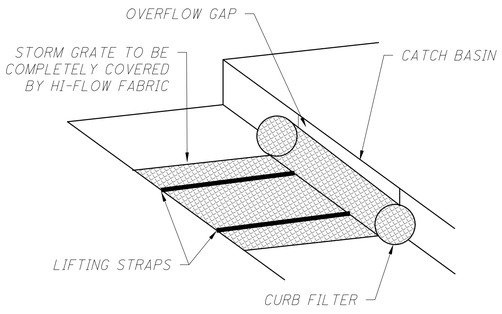
E. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAY ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

F. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.

G. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION, AND IF RUNOFF BY PASSING THE INLET WILL NOT FLOW TO A SETTING POND, THE TOP OF EARTH DIKES SHALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS





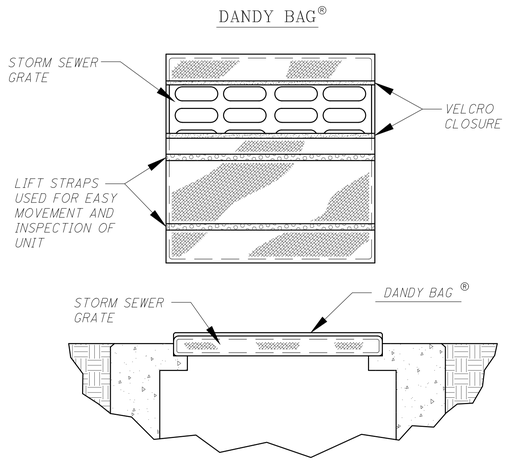
NOTES

A. DANDY CURB BAG, SEDIGUARDS, OR ALTERNATE PRODUCT WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED MAY BE USED.

B. REMOVE SEDIMENT FROM CURB INLET PROTECTION BEFORE IT HINDERS THE FILTERING CAPACITY.
- DANDY CURB BAG: LIFT GRATE AND REMOVE DANDY BAG, CLEAN ACCUMULATED SEDIMENT AND REPLACE BAG AS REQUIRED BY MANUFACTURER.
- SEDIGUARD: CLEAN SEDIGUARD ONCE IT IS DRY WITH A STIFF BROOM AFTER EVERY RAIN.
- ALTERNATE PRODUCTS: CLEAN AS REQUIRED PER MANUFACTURER'S RECCOMENDATIONS

C. INLET PROTECTION SHOULD NEVER INTERFERE WITH SAFETY OF ACTIVE TRAFFIC.

CURB INLET SEDIMENT FILTER DETAIL



DETAIL OF INLET SEDIMENT CONTROL DEVICE

DANDY BAG®
SPECIFICATIONS

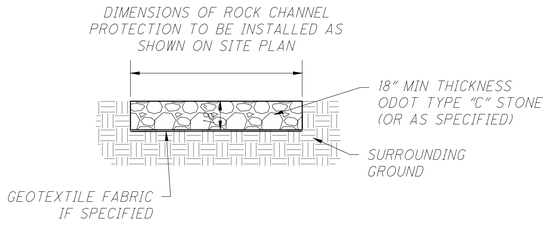
NOTE: THE DANDY BAG® WILL BE **MANUFACTURED IN THE U.S.A.** FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

HI-FLOW DANDY BAG® (SAFETY ORANGE)

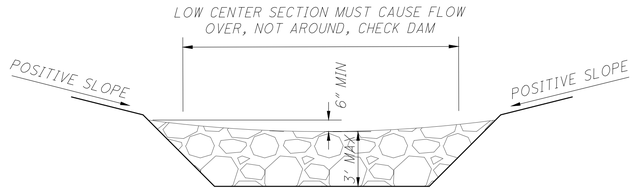
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m²(gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Bags® can be ordered with optional oil absorbent pillows

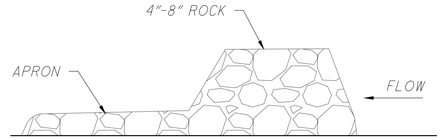
INLET PROTECTION - DANDY BAG



ROCK CHANNEL PROTECTION DETAIL FOR PIPE OUTLET



CROSS SECTION



PROFILE

NOTES

A. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-8 INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL. ODOT TYPE D STONE IS ACCEPTABLE, BUT SHOULD BE UNDERLAIN WITH A GRAVEL FILTER CONSISTING OF ODOT No. 3 OR 4 OR SUITABLE FILTER FABRIC.

B. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.

C. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6 INCHES LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.

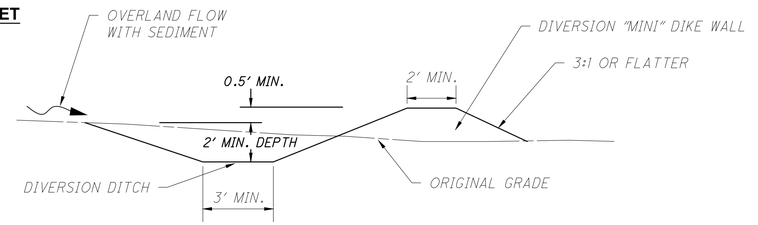
D. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.

E. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 INCHES THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.

F. STONE PLACEMENT SHALL BE PERFORMED EITHER BY HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS ENTIRE CHANNEL.

G. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

DITCH ROCK CHECK DAM



NOTES

A. BERM CAN BE CONSTRUCTED AS DITCH OR DIKE WALL

B. PLACE DITCH ON A GRADE TO DRAIN TO SEDIMENT BASIN.

CROSS SECTION OF A DIVERSION BERM

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EROSION CONTROL NOTES AND DETAILS - 2

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CHECKED BY: MLS

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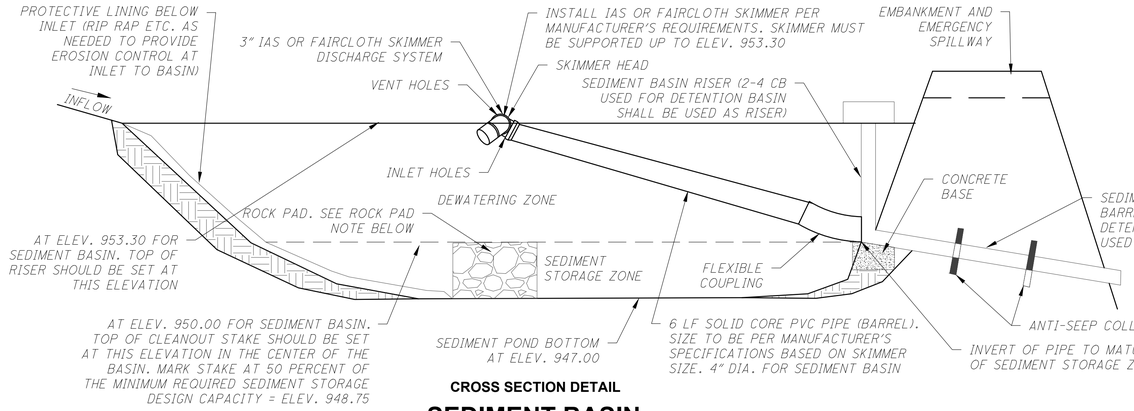
26 OF 112



CROSS SECTION DETAIL

SEDIMENT BASIN

NOTES

A. SEDIMENT BASINS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

B. SITE PREPARATION -THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT. GULLIES AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1. THE SURFACE OF THE FOUNDATION AREA WILL BE THOROUGHLY SCARIFIED BEFORE PLACEMENT OF THE EMBANKMENT MATERIAL.

C. EMBANKMENT -THE FILL MATERIAL SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES OVER 6 IN. IN DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL SHALL BE BROUGHT UP IN APPROXIMATELY 6 IN. HORIZONTAL LAYERS OR OF SUCH THICKNESS THAT THE REQUIRED COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER IN A WAY THAT WILL RESULT IN THE REQUIRED COMPACTION. SPECIAL EQUIPMENT SHALL BE USED WHEN THE REQUIRED COMPACTION CANNOT BE OBTAINED WITHOUT IT. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. THE EMBANKMENTS OF THE SEDIMENT BASIN AND THE AREAS THAT LIE DOWNSTREAM OF THE POND MUST BE STABILIZED.

D. PIPE SPILLWAY -THE PIPE CONDUIT BARREL SHALL BE PLACED ON A FIRM FOUNDATION TO THE LINES AND GRADES SHOWN ON THE PLANS. CONNECTIONS BETWEEN THE RISER AND BARREL, THE ANTI-SEEP COLLARS AND BARREL AND ALL PIPE JOINTS SHALL BE WATERTIGHT. SELECTED BACKFILL MATERIAL SHALL BE PLACED AROUND THE CONDUIT IN LAYERS AND EACH LAYER SHALL BE COMPACTED TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. ALL COMPACTION WITHIN 2 FT. OF THE PIPE SPILLWAY WILL BE ACCOMPLISHED WITH HAND-OPERATED TAMPING EQUIPMENT.

E. RISER PIPE BASE -THE RISER PIPE SHALL BE SET A MINIMUM OF 6 IN. IN THE CONCRETE BASE.

F. TRASH RACKS -THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE.

G. SEED AND MULCH -THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.

H. SEDIMENT CLEANOUT - ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT STORAGE ZONE ONCE IT EXCEEDS 50 PERCENT OF THE MINIMUM REQUIRED SEDIMENT STORAGE DESIGN CAPACITY AND PRIOR TO THE CONVERSION TO THE POST-CONSTRUCTION PRACTICE UNLESS SUITABLE STORAGE IS DEMONSTRATED BASED UPON OVER-DESIGN. THIS ELEVATION SHALL BE MARKED ON A CLEANOUT STAKE NEAR THE CENTER OF THE BASIN. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE.

I. FINAL REMOVAL - SEDIMENT BASINS SHALL BE REMOVED AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR AS INDICATED IN THE PLANS. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.

OPERATIONS AND MAINTENANCE

SEDIMENT BASINS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.
NECESSARY ACTIVITIES ARE SHOWN AS FOLLOWS:

A. ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER IN AND AROUND THE SEDIMENT BASIN.

B. REMOVE UNDESIRABLE VEGETATION PERIODICALLY TO PREVENT GROWTH OF TREES AND SHRUBS ON THE EMBANKMENT AND SPILLWAY AREAS.

C. PROMPTLY REPAIR ERODED AREAS. REESTABLISH VEGETATIVE COVER IMMEDIATELY WHERE SCOUR EROSION HAS REMOVED ESTABLISHED SEEDING.

D. PROMPTLY REMOVE ANY BURROWING RODENTS THAT MAY INVADE AREAS OF THE EMBANKMENT.

E. REMOVE TRASH AND DEBRIS THAT MAY BLOCK SPILLWAYS AND ACCUMULATE IN THE POND.

F. CHECK SPILLWAY OUTLETS AND POINTS OF INFLOW TO ENSURE DRAINAGE IS NOT CAUSING EROSION AND THAT OUTLETS ARE NOT CLOGGED. REPLACE DISPLACED RIPRAP IMMEDIATELY.

ROCK PAD NOTE

IT IS VERY IMPORTANT THAT A ROCK PAD BE CONSTRUCTED TO THE HEIGHT OF THE TOP OF THE SEDIMENT STORAGE ZONE. IF THIS IS NOT DONE OR IF THE PAD IS NOT BUILT TO THE SAME HEIGHT AS THE TOP OF THE SEDIMENT STORAGE ZONE, THE SKIMMER WILL NOT FUNCTION PROPERLY .

WHEN COMPLETE THE IAS FLEXIBLE COUPLING SHOULD BE LYING FLAT ON THE ROCK PAD. THE UNIT WILL BE TOUCHING AT TWO POINTS: THE TOP OF THE BARREL/MIDDLE OF THE SKIMMER HEAD AND THE POINT AT WHICH THE BARREL IS ATTACHED TO THE IAS FLEXIBLE COUPLING. SEE MANUFACTURER'S ASSEMBLY INSTRUCTIONS.

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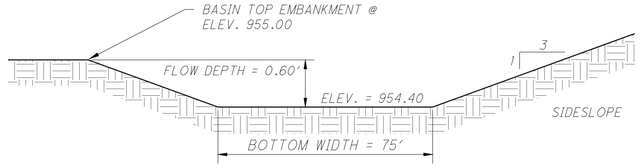
IAS SKIMMER
NTS

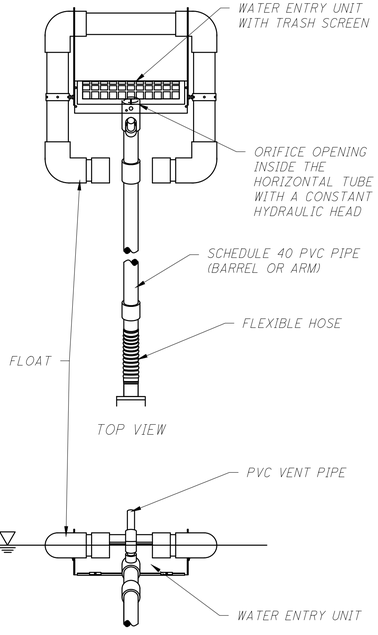


CROSS SECTION

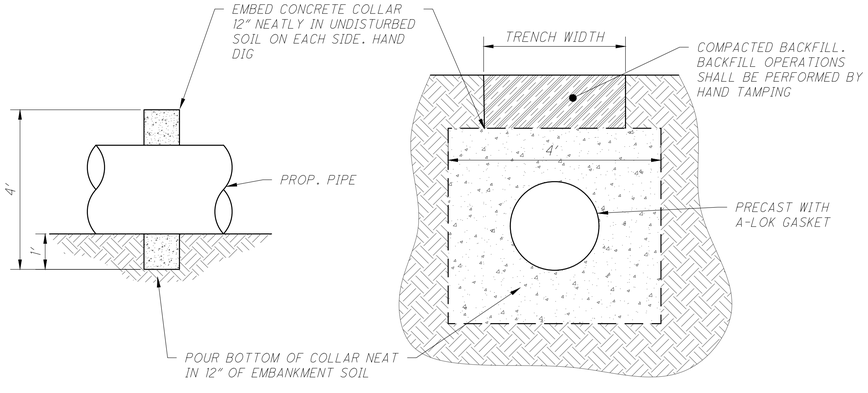
EMERGENCY SPILLWAY
NTS

SEDIMENT BASIN CALCULATIONS

REQUIRED SEDIMENT STORAGE VOLUME = 37 C.Y./ACRE * 13.54 ACRES = 501 C.Y.
TOP OF SEDIMENT STORAGE ZONE ELEVATION = 950.00 (3,986 C.Y.). SET CLEANOUT STAKE AT THIS ELEVATION.
REQUIRED DEWATERING ZONE VOLUME = 67 C.Y./ACRE * 22.01 ACRES = 1,475 C.Y.
DEWATERING ZONE VOLUME (BETWEEN 950.00 AND 953.50) = 5,771 C.Y.
TOTAL BASIN VOLUME REQUIRED TO TOP OF DEWATERING ZONE = 501 C.Y. + 1,475 C.Y. = 1,976 C.Y.
TOP OF DEWATERING ZONE ELEVATION = 953.50 (9,757 C.Y.)
TOTAL SEDIMENT BASIN VOLUME PROVIDED TO ELEV. 955.00 = 12,596 C.Y.
RISER AND BARREL: PROPOSED 36" DETENTION OUTLET AND 2-4 CB ARE TO BE USED AS OUTLET FOR SEDIMENT BASIN.
EMERGENCY SPILLWAY: EMERGENCY SPILLWAY TO BE TRAPEZOIDAL WITH A BOTTOM WIDTH OF 75'.
DEWATERING TIME : 3.90 DAYS
1,475 C.Y. * 27 = 39,825 C.F. VOLUME TO BE DEWATERED
USING A FAIRCLOTH/IAS WATER QUALITY SKIMMER WITH A 3" SKIMMER SIZE, IT DISCHARGES 10,205 CF PER 24 HOURS THEREFORE IT WILL TAKE 3.90 DAYS TO DEWATER THIS SEDIMENT BASIN.



FAIRCLOTH SKIMMER
NTS



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EROSION CONTROL NOTES AND DETAILS - 3

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

C17
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LEGEND

—830— EXISTING CONTOURS
830 PROPOSED CONTOURS
PROPOSED STORM SEWER
PROPOSED CONSTRUCTION LIMITS
F PROPOSED FILTER FABRIC FENCE MEASURE
PROPOSED INLET PROTECTION
PROPOSED CONSTRUCTION ENTRANCE

THIS AREA IS TO BE USED FOR VEHICLE FUELING AND MAINTENANCE. AN ABOVE GROUND STORAGE TANK OF LESS THAN 500 GALLONS WILL BE USED AS THE FUEL SOURCE. THIS AREA WILL ALSO BE USED FOR RECEIVING CONCRETE CHUTE AND OTHER CONCRETE WASH WATERS. THIS SHALL NOT OCCUR ON STREET SUBGRADE OR BASE.

LEGEND

—830— EXISTING CONTOURS
830 PROPOSED CONTOURS
PROPOSED STORM SEWER
PROPOSED EDGE PAVEMENT
PROPOSED CURB

WATER QUALITY AND POST CONSTRUCTION STORM WATER MANAGEMENT AND TREATMENT:

THE FIRST 0.90" OF STORMWATER RUNOFF FOR THE SITE WILL BE CONTROLLED VIA FILTRATION (AND SOME INFILTRATION) BY THE GRASSED AREAS IN AND AROUND THE PROPOSED IMPERVIOUS AREAS, GRASSED SWALES, AND GRASSED BOTTOM OF THE DETENTION BASIN. ADDITIONAL POLLUTANTS WILL ALSO SETTLE OUT OVER TIME IN THE DETENTION BASIN.
THE ON-SITE DETENTION BASIN HAS BEEN DESIGNED TO TREAT THE WATER QUALITY VOLUME (WQv) USING A REDUCED SIZED ORIFICE FOR AN OUTLET AS FOLLOWS:
-RELEASE THE RUNOFF FROM A 0.90" RAIN EVENT ON THE SITE DRAINAGE AREA OVER 48 HOURS OR LONGER AND
-THE FIRST HALF OF THE TOTAL VOLUME GENERATED BY THE RUNOFF FROM A 0.90" RAIN EVENT IS RETAINED FOR GREATER THAN 16 HOURS.

POST-CONSTRUCTION STORM WATER MANAGEMENT WATER QUALITY VOLUME FOR DEVELOPMENT USING 0.90 INCHES OF RAIN:
DETENTION BASIN:
WQv=0.35*0.90*3.10/12=2917 CU FT
3136 CU FT PROVIDED TO ELEV. 866.50
THE DETENTION BASIN HAS AN OUTLET WITH A 0.95" DIA. ORIFICE THAT RELEASES APPROX. 33% OF THE WQv AT 16 HOURS AND APPROX. 98% AT 48 HOURS

SEE SEPARATE STORMWATER CALCS. FOR ADDITIONAL DETAILS IF NEEDED

PROP. SEDIMENT BASIN
TOP 955.00
BOTTOM 947.00
A CLEANOUT STAKE SHOULD BE PLACED NEAR THE CENTER OF THE BASIN SO THAT THE TOP OF THE STAKE'S ELEVATION IS AT 950.00. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE BASIN WHENEVER IT REACHES 50% OF THE TOP ELEVATION OF THE CLEANOUT STAKE. PROP. 2-4 CB WITH TOP AT 953.50. 36" OUTLET PIPE INV. 947.00. INSTALL 3.0" IAS WATER QUALITY SKIMMER IN SEDIMENT BASIN PER MANUFACTURER'S REQUIREMENTS. CONNECT TO RISER AT ELEVATION 950.00. CONNECT TO SECONDARY ORIFICE OPENING.
FINAL 36" OUTLET PIPE AND 2-4 CB ARE TO BE USED AS THE OUTLET FOR THE SEDIMENT BASIN. SKIMMER TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED AND SITE IS STABILIZED.

PROP. BUILDING F.F. 961.07
TANKS
OFFICES
EQUIP. STOR.
PROP. BUILDING F.F. 959.50
LARGE VEHICLE STORAGE
SERVICE BAY
WATER
SIGN SHOP
GATE
PROP. FILTER FABRIC FENCE (TYP.)
PROP. INLET PROTECTION (TYP.)
PROP. STAGING AND STORAGE AREA
PROP. CONSTRUCTION ENTRANCE
FLOODWAY
FLOODPLAIN 100 YR
FLOODPLAIN 500 YR
ASPHALT PVMT.
CONCRETE
AVIATOR COURT
NORTHWOOD BOULEVARD
N BROWN SCHOOL ROAD
Ex W/M
Ex U
Ex G
Ex OHP
Ex T/L
Ex F/O

BENCHMARK #1 ELEV. 948.01
FIRE HYDRANT AT THE END OF EXISTING NORTHWOOD BLVD. BOLT TOP FLANGE TIP OF ARROW

BENCHMARK #2 ELEV. 956.50
FIRE HYDRANT JUST WEST OF DRIVE TO ABBEY CREDIT UNION. BOLT TOP FLANGE TIP OD ARROW

BENCHMARK #3 ELEV. 957.84
FIRE HYDRANT AT END OF BROWN SCHOOL RD. NORTH BOLT TOP FLANGE.

SCALE IN FEET
0 25 50 100

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ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

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VANDALIA, OHIO 45377

SWPPP EROSION CONTROL PLAN

PROJECT NO.: 23014
DRAWN BY: JMK
DATE: 05-18-2026
CHECKED BY: MLS

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GENERAL STRUCTURAL NOTES

GOVERNING CODE

2024 OHIO BUILDING CODE

DESIGN LOADS

1. ROOF LOAD (PEMB):
   - A. MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (Pf) — 20 PSF*
   - B. ROOF DEAD LOAD — 3 PSF
   - C. PRI. COL. — 3 PSF
   - D. SEC. COL. — 9 PSF
   - TOTAL ROOF LOAD — 35 PSF MIN.
2. ROOF LOAD (WOOD POST FRAME BUILDING):
   - A. MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (Pf) — 20 PSF*
   - B. ROOF DEAD LOAD — 15 PSF
   - TOTAL ROOF LOAD — 35 PSF MIN.

(*GROUND SNOW P_G = 20 PSF MODIFIED BY APPLICABLE DRIFT COEFFICIENTS. SNOW LOAD IMPORTANCE FACTOR I = 1.0. SNOW EXPOSURE FACTOR C_e = 1.0. SNOW LOAD THERMAL FACTOR C_t = 1.0. FLAT ROOF SNOW LOAD P_f = 20 PSF.)

COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

3. MEZZANINE FLOOR LOAD:
   - A. LIVE LOAD — 100 PSF
   - B. PRECAST CONCRETE PLANKS — 56 PSF
   - C. DUCTS, LIGHTS, MISC. MECHANICAL — 14 PSF
   - TOTAL LOAD ON MEZZANINE — 170 PSF MIN.
4. WIND LOAD:
   - A. BASIC WIND SPEED (BASED ON 3-SECOND GUST) = 107 MPH
   - B. RISK CATEGORY = II
   - C. WIND IMPORTANCE FACTOR, I = 1.0
   - D. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
   - E. INTERNAL PRESSURE COEFFICIENT, GCpi = +0.18, -0.18
   - F. DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS NOT DESIGNED BY THE ENGINEER OF RECORD: SPECIALTY ENGINEER SHALL DETERMINE WIND LOADS UNDER GOVERNING BUILDING CODE, AND BASED ON WIND LOAD PARAMETERS DEFINED ABOVE.
5. SEISMIC LOAD:
   - A. RISK CATEGORY = II
   - B. SPECTRAL RESPONSE COEFFICIENT S_{DS} =0.097
   - C. SPECTRAL RESPONSE COEFFICIENT S_{D1} = 0.038
   - D. SITE CLASS = B (UTILIZING GEOPIERS)
   - E. SEISMIC DESIGN CATEGORY = A
6. SPECIAL LOADS:
   - A. INTERIOR WALLS AND PARTITIONS THAT EXCEED 6 FEET IN HEIGHT: 5 PSF HORIZONTAL LOAD.
   - B. HANDRAILS AND GUARDRAILS:
     1. HANDRAIL AND GUARDRAIL TOP RAIL: 200 POUNDS CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 50 PLF UNIFORM LOAD APPLIED IN ANY DIRECTION
     2. INTERMEDIATE RAILS, BALUSTERS, AND PANEL FILLERS: HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 1 SQUARE FT., INCLUDING OPENINGS AND SPACE BETWEEN RAILS.
   - C. IMPACT
     1. MACHINERY SECTION 1607.8.2
7. PRE-ENGINEERED METAL BUILDING FOUNDATION:
   - A. FOUNDATION IS BASED ON FOUNDATION REACTIONS PROVIDED BY BOWSER MORNER DATED REVISED APRIL 02, 2026
   - B. PEMB FOUNDATION DESIGN IS CONSIDERED PRELIMINARY UNTIL FINAL STAMPED/SIGNED DOCUMETNS ARE PROVIDED FOR REVIEW AND UPDATED ACCORDINGLY

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR MUST PROVIDE THE CONTRACTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING ERECTION
5. ANCHOR RODS/BOLTS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

LATERAL LOAD RESISTING SYSTEM

1. THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS:
   - A. MOMENT RESISTING FRAME SYSTEMS: STEEL ORDINARY MOMENT FRAMES (PEMB)
   - B. PRECAST CONCRETE PLANK DIAPHRAGM
   - C. POST FRAME BUILDING SYSTEM

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY BOWSER MORNER DATED REVISED APRIL 02, 2026. THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST. ALL FOOTINGS SHALL BE S|||PRED PM THE GEOPIER IMPROVED SUBGRADE DESIGNED AND ENGINEERED BY GEOPIER FOUNDATION COMPANY. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 3000 PSF.
2. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR LOW STRENGTH CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
3. FOOTINGS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL.
4. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
5. FILL AND BACK FILL:
   - A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT.
   - B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
   - C. BACKFILL AGAINST WALLS:
     1. BACKFILL ALONG INTERIOR FACE OF FOUNDATION WALLS SHALL BE:
        - a. CLAYEY MATERIAL COMPACTED IN 6" LIFTS TO 95% STANDARD PROCTOR DENSITY OR CONCRETE WITH A COMPRESSIVE STRENGTH OF f'_c = 500 PSI
        - OR
        - b. WELL GRADED GRANULAR MATERIAL COMPACTED IN 6" LIFTS; AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP
     2. BACKFILL ALONG EXTERIOR FACE OF SHALLOW WALL FOUNDATIONS TO BE:
        - a. COMPACTED CLAYEY MATERIAL; COMPACT TO 95% STANDARD PROCTOR.
        - OR
        - b. COMPACTED GRANULAR MATERIAL WITH 4" DIAMETER FOUNDATION DRAIN AT THE BOTTOM OF THE GRANULAR MATERIAL. DRAIN TO HAVE POSITIVE SLOPE TO DAYLIGHT OR TO SUMP.
   - D. FILL BELOW FLOOR SLABS:
     1. PROVIDE COMPACTED GRANULAR MATERIAL BELOW FLOOR SLAB AS INDICATED IN DOCUMENTS.
     2. TOP 12" OF SUBBASE BELOW INTERIOR FLOOR SLAB TO BE PROOF ROLLED TO 98% STANDARD PROCTOR DENSITY PRIOR TO PLACEMENT OF SLAB.

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6. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
7. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED CLAYEY BACKFILL OR LEAN CONCRETE TO CREATE A DAM TO PREVENT ENTRY OF WATER.
8. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

1. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD-TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-10 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.
2. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R-10 "COLD WEATHER CONCRETING".
3. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R-10 "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO NOMOGRAPH FIGURE 2.1.5 TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-10 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.
5. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL.
6. MATERIALS: ($f'c$ BASED ON 28 DAY UNLESS NOTED)
   - A. CONCRETE UNLESS NOTED: $f'c$ = 4000 PSI., NORMAL WEIGHT AGGREGATE.
   - B. CONCRETE FOR PUBLIC WORKS INTERIOR FLOOR SLABS: $f'c$ = 4000 PSI AT 28 DAYS, 1800 PSI AT 3 DAYS, NORMAL WEIGHT AGGREGATE, MINIMUM CEMENTITIOUS-MATERIALS CONTENT PER ACI 301-10 TABLE 4.2.2.1, PLASTICIZING OR WATER REDUCING ADMIXTURE REQUIRED, MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50. MINIMUM CEMENTITIOUS-MATERIALS CONTENT REQUIREMENT PER TABLE 4.2.2.1 MAY BE WAIVED IF A HISTORY OF FINISHING QUALITY, APPEARANCE, DURABILITY, AND SURFACE HARDNESS IS SUBMITTED OR IF A TEST SLAB OF AT LEAST 8 FEET X 8 FEET IS PLACED AT THE JOB SITE USING JOB MATERIALS, EQUIPMENT, AND PERSONNEL AND EVALUATION RESULTS SUBMITTED. AGGREGATE GRADATION CURVES SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL. GRADATION ANALYSIS MUST CONTAIN DATA FOR 3/8 AND NO. 4 SIEVES. COARSENESS FACTOR MUST NOT EXCEED 75. A MAXIMUM OF TWO DEFICIENT SIEVES (LESS THAN 8% RETAINED) IS ACCEPTABLE, AS LONG AS THE ADJACENT SIEVES BALANCE THE DEFICIENT SIEVES.
   - C. CONCRETE FOR OTHER INTERIOR FLOOR SLABS: $f'c$ = 4000 PSI AT 28 DAYS, 1800 PSI AT 3 DAYS, NORMAL WEIGHT AGGREGATE, MINIMUM CEMENTITIOUS-MATERIALS CONTENT PER ACI 301-10 TABLE 4.2.2.1, PLASTICIZING OR WATER REDUCING ADMIXTURE REQUIRED, MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50. MINIMUM CEMENTITIOUS-MATERIALS CONTENT REQUIREMENT PER TABLE 4.2.2.1 MAY BE WAIVED IF A HISTORY OF FINISHING QUALITY, APPEARANCE, DURABILITY, AND SURFACE HARDNESS IS SUBMITTED OR IF A TEST SLAB OF AT LEAST 8 FEET X 8 FEET IS PLACED AT THE JOB SITE USING JOB MATERIALS, EQUIPMENT, AND PERSONNEL AND EVALUATION RESULTS SUBMITTED.
   - D. CONCRETE FOR EXTERIOR FLAT WORK, WALKS, ETC.: $f'c$ = 4500 PSI, (4.5% TO 7.5% ENTRAINED AIR), MAXIMUM WATER/CEMENTITIOUS RATIO = 0.45. LIMIT POZZOLAN CONTENT PER ACI 301-10 TABLE 4.2.2.8.
   - E. CONCRETE FOR FOUNDATION WALLS WITH EXTERIOR EXPOSURE: $f'c$ = 4000 PSI, (4.5% TO 7.5% ENTRAINED AIR), MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50.
   - F. CONCRETE FOR FOOTINGS: $f'c$ = 3000 PSI.
   - G. CONCRETE FOR STAIR PAN FILL AND PRECAST TOPPING: $f'c$ = 4000 PSI., 3/8" MAXIMUM AGGREGATE SIZE.
   - H. REINFORCING STEEL: ASTM A615 60 KSI YIELD DEFORMED BARS AND ASTM A185 WELDED WIRE FABRIC, FLAT SHEETS ONLY.
   - I. FLY ASH: ASTM C618, TYPE F OR C. WHEN USED, FLY ASH-TO- TOTAL CEMENTITIOUS RATIO SHALL BE 15% MINIMUM.
   - J. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG -TO- TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM.
   - K. FLY ASH, NATURAL POZZOLANS, SILICA FUME, OR GROUND GRANULATED BLAST FURNACE SLAG: WHEN EXPOSED TO DEICING CHEMICALS, LIMIT THE MAXIMUM WEIGHT TO THE PERCENTAGES OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS GIVEN IN TABLE 4.2.2.8 OF ACI 301-10.
   - L. PLASTICIZING ADMIXTURE: ASTM C1017.
   - M. WATER REDUCING ADMIXTURE: ASTM C494.
   - N. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 301-99. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
7. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICIZING OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTENT OF AIR ENTRAINED CONCRETE), AFTER SLUMP ADJUSTMENT, TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.
8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES.
9. LAP SPLICE REINFORCING BARS AS FOLLOWS UNLESS NOTED OTHERWISE:
   - A. HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW - 72 BAR DIAMETERS
   - B. HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE BELOW, AND ALL OTHER BARS - 55 BAR DIAMETERS
10. MINIMUM CAST-IN-PLACE CONCRETE COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
    - A. CONCRETE CAST AGAINST EARTH: 3"
    - B. CONCRETE EXPOSE TO EARTH OR WEATHER:
      - 1 #6 BAR OR LARGER: 2"
      - 2 #5 BAR OR SMALLER: 1½"
    - C. SLABS:
      - 1 TOP BARS: ¾"
      - 2 BOTTOM BARS: 1"
    - D. WALLS: 1"
    - E. BEAMS AND COLLUMNS - TIES, STIRRUPS AND SPIRALS: 1½"
11. SPECIFIED CONCRETE COVER OVER REINFORCING STEEL SHALL BE MAINTAINED TO ALL REINFORCEMENT AT CONCRETE REVEALS AND INSETS. SHOP DRAWINGS SHOWING CONCRETE REVEALS AND OTHER INSETS SHALL BE SUBMITTED FOR REVIEW.REINFORCING BARS SHALL BE FREE OF FORM RELEASE AGENTS.
12. AT CORNERS AND INTERSECTIONS OF FOOTINGS, WALLS AND GRADE BEAMS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING FOOTING, WALL OR GRADE BEAM. BARS SHALL HAVE EMBEDMENT OF 30 DIAMETERS (18" MIN.).
13. MACHINE TROWEL FINISH FLOOR SLAB AND CURE USING "CURE AND SEAL" TYPE CURING COMPOUND MEETING ASTM C1315, VOC COMPLIANT, 25% MINIMUM SOLIDS CONTENT. FOR APPLICATIONS EXPOSED TO SUNLIGHT USE LIGHT BROOM FINISH AND ACRYLIC BASED CURING COMPOUND.
14. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117:

	F_F(FLATNESS)	F_L(LEVELNESS)
SPECIFIED OVERALL VALUE	25	20
MINIMUM LOCAL VALUE	18	13

MAXIMUM GAP UNDER 10 FT. UNLEVELED STRAIGHT EDGE = 1/4".

15. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER COMPACTED GRANULAR SUBBASE.
16. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
17. REINFORCE ALL INTERIOR SLABS ON GROUND AS INDICATED IN DOCUMENTS. LOCATE WELDED WIRE FABRIC 2" CLEAR BELOW TOP OF SLAB.
18. LAP WELDED WIRE FABRIC MINIMUM 1 FULL SPACE PLUS 2".
19. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS; 24" O.C. FOR PARALLEL SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR WALLS. USE DUR-O-WAL OR WIREBOND DOVETAIL SLOTS.
20. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
21. CONTROL JOINTS IN SLABS ON GROUND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE. IF AN EARLY-CUTTING SAW IS BE USED AND A SHALLOWER DEPTH OF THE CUT IS DESIRED, CONTACT THE ENGINEER IN ADVANCE FOR APPROVAL.
22. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTROL JOINT LOCATION. CONSTRUCTION JOINTS SHALL HAVE A KEY FORMED AT MID-DEPTH OF THE FIRST CAST SECTION. THE KEY SHALL BE 1-1/2" DEEP AND SHALL BE 1/3 OF THE SLAB THICKNESS HIGH. THE TOP AND BOTTOM OF THE KEY SHALL HAVE 1 VERTICAL TO 3 HORIZONTAL SLOPE.
23. FILL CONTROL AND CONSTRUCTION JOINTS IN TRAFFIC AREAS WITH SEMI-RIGID EPOXY JOINT FILLER WITH A DUROMETER SHORE A-SCALE HARDNESS NUMBER OF APPROXIMATELY 80. FILL CONTROL AND CONSTRUCTION JOINTS IN NON-TRAFFIC AREAS WITH ELASTOMERIC SEALANT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
24. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
25. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTROL JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.
26. PROVIDE CONTROL/CONSTRUCTION JOINTS IN CONCRETE WALLS AT A MAXIMUM SPACING OF TWICE THE HEIGHT OF THE WALL ABOVE THE TOP OF FOOTING. MAXIMUM JOINT SPACING SHALL NOT EXCEED 24 FT. CONTROL JOINTS SHALL HAVE A 1-1/2" DEEP BY 3/4" WIDE TAPERED REVEAL EACH SIDE OF THE WALL. AT CONTROL JOINTS, EVERY OTHER HORIZONTAL BAR SHALL BE CUT BACK 1-1/2" FROM THE CONTROL JOINT. CONSTRUCTION JOINTS SHALL BE FORMED SIMILAR TO CONTROL JOINTS. AT CONSTRUCTION JOINTS, ALL HORIZONTAL STEEL SHALL BE DISCONTINUOUS AND A DOWEL BAR OF SIZE AND SPACING TO MATCH THE HORIZONTAL REINFORCING SHALL BE EMBEDDED A MINIMUM OF 40 BAR DIAMETERS EACH SIDE OF THE CONSTRUCTION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL JOINT TREATMENT.

MASONRY

1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1-08/ASCE 5-08/TMS 402-08)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. COMPRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF MASONRY BY THE UNIT STRENGTH METHOD.
   - A. CONCRETE MASONRY: f'_m = 1500 PSI AT 28 DAYS.
     1. 1900 PSI UNIT STRENGTH & TYPE S MORTAR: f'_m = 1500 PSI.
3. SUBMITTALS SHALL BE MADE FOR THE FOLLOWING:
   - A. COLD WEATHER CONSTRUCTION PROCEDURE.
   - B. HOT WEATHER CONSTRUCTION PROCEDURE.
   - C. MANUFACTURERS LITERATURE FOR:
     1. HORIZONTAL JOINT REINFORCING.
     2. REINFORCING STEEL POSITIONERS.
     3. MOVEMENT JOINT MATERIALS.
     4. TIES & ANCHORS.
   - D. SHOP DRAWINGS SHOWING:
     1. DETAILS OF STEEL REINFORCING.
     2. LINTELS.
   - E. MANUFACTURERS CERTIFICATE OF COMPLIANCE FOR SPECIFIED:
     1. MASONRY UNIT.
     2. REINFORCING STEEL.
   - F. PROPORTIONS OF MATERIAL IN ACCORDANCE WITH REFERENCED SPECIFICATIONS OF:
     1. MORTAR.
     2. GROUT.
4. MATERIALS
   - A. CONCRETE MASONRY UNITS: ASTM C90 TYPE I.
     1. BELOW GRADE: NORMAL WEIGHT AGGREGATE PER ASTM C33.
     2. ABOVE GRADE: LIGHTWEIGHT AGGREGATE PER ASTM C331 OR NORMAL WEIGHT.
   - B. MORTAR: ASTM C270 TYPE S
     1. PORTLAND CEMENT-LIME MORTAR:
        - a. PORTLAND CEMENT: TYPE I.
        - b. HYDRATED LIME: TYPE S.
     2. MASONRY CEMENT MORTAR: ONLY UPON ENGINEER'S APPROVAL.
   - C. GROUT: ASTM C476. SLUMP 8" TO 11".
   - D. REINFORCING STEEL: ASTM A615, 60 KSI YIELD.
   - E. HORIZONTAL JOINT REINFORCING FOR SINGLE WYTHE CONCRETE MASONRY: ASTM A951 9 GAGE LADDER TYPE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
5. QUALITY ASSURANCE
   - A. SITE STRUCTURAL OBSERVATION (NOT CONSIDERED SPECIAL INSPECTION) OF MASONRY WORK IS REQUIRED PER ACI 530.1-11/ASCE 6-11/TMS 602-11. SITE OBSERVATIONS WILL BE MADE BY THE STRUCTURAL ENGINEER, ARCHITECT, OR AN ALTERNATE APPROVED BY THE STRUCTURAL ENGINEER. COST OF THIS SERVICE WILL BE PAID FOR BY OWNER. REQUEST FOR OBSERVATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE SITE OBSERVER SHALL VERIFY COMPLIANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS AND KEEP A RECORD WHICH WILL COVER:
     1. QUALITY OF MASONRY UNITS AND MATERIALS FOR MORTAR AND GROUT.
     2. PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT.
     3. LAYING, MORTARING AND GROUTING OF MASONRY UNITS AND MASONRY STRUCTURAL ELEMENTS.
     4. CONDITIONS, GRADE, SIZE, SPACING AND PLACING OF REINFORCING.
     5. TYPE, SPACING, AND PLACING OF TIES AND ACCESSORIES.
     6. ANY SIGNIFICANT OR UNUSUAL CONSTRUCTION LOADS ON COMPLETED MASONRY STRUCTURAL ELEMENTS.
     7. TEMPERATURE, MOISTURE CONDITIONS, AND PROVISIONS THAT WERE MADE FOR HOT OR COLD WEATHER CONSTRUCTION.
     8. GENERAL PROGRESS OF WORK.
   - B. OBSERVATION RECORDS, IF DONE OTHER THAN BY STRUCTURAL ENGINEER, SHALL BE IMMEDIATELY FORWARDED TO STRUCTURAL ENGINEER AFTER EACH SITE VISIT.
6. MORTAR PROPORTIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO MIX IN FULL BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS OFTEN AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND EVERY 4 HOURS OF MIXING.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY.
8. PROVIDE PREFABRICATED "L" AND "T" SHAPED HORIZONTAL JOINT REINFORCING AT WALL INTERSECTIONS.
9. KEEP AIR SPACE BEHIND VENEER FREE OF MORTAR DROPPINGS.
10. RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTED.
11. PROVIDE MOVEMENT (CONTROL AND EXPANSION) JOINTS IN WALLS WHERE INDICATED ON ARCHITECTURAL DRAWINGS. BOND BEAMS SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS UNLESS NOTED OTHERWISE:
    - A. MOVEMENT JOINTS IN CONCRETE BLOCK: SASH BLOCK UNIT WITH PREFORMED SHEAR KEY. CAULK BOTH FACES. ALTERNATE DETAILS FOR CONTROL JOINTS MAY BE ACCEPTABLE – SUBMIT DETAILS FOR APPROVAL.
    - B. MOVEMENT JOINTS IN BRICK: 3/8" WIDE CLEAN JOINT FILLED WITH EXPANSION JOINT MATERIAL PER ASTM D1056, CLASS RE 41. CAULK EXTERIOR FACE.
    - C. PROVIDE BUILDING PAPER BOND BREAK BELOW LINTEL BEARING ADJACENT TO CONTROL JOINTS.
12. UNLESS NOTED OTHERWISE ON PLANS, UNDER LINTELS, BEARING PLATES, BEAMS, ETC.; FILL CELLS WITH GROUT, 3 COURSES MINIMUM BELOW BEARING.
13. ALL REINFORCING STEEL SHALL BE SUPPORTED AND FASTENED TO APPROVED POSITIONERS LOCATED AT 192 BAR DIAMETERS MAXIMUM SPACING AND WITH A MINIMUM OF TWO POSITIONERS PER GROUT POUR (ONE NEAR THE BOTTOM AND ONE NEAR THE TOP) TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF GROUT.
14. GROUT ALL CELLS BELOW GRADE SOLID.
15. PROVIDE REINFORCING BAR SPLICES AS SPECIFIED IN THE FOLLOWING TABLE. BAR SPLICE COUPLERS MAY BE CONSIDERED AS A SUBSTITUTE, SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.

	BAR CENTERED IN WALL		BARS EACH FACE	
BAR SIZE	8" WALL	12" WALL	8" WALL	12" WALL
#4	25"	25"	29"	26"
#5	31"	31"	47"	42"
#6	58"	52"	98"	87"
#7	80"	61"	137"	121"

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", CURRENT EDITION.
2. FABRICATOR SHALL DESIGN CONNECTIONS AND, WHEN REQUESTED, SUBMIT CALCULATIONS TO AID THE ENGINEER IN REVIEW. UNLESS SPECIFIC END MOMENTS AND REACTIONS ARE INDICATED ON DRAWINGS, DESIGN AND FABRICATE CONNECTIONS TO RESIST SHEAR BASED ON THE MAXIMUM UNIFORM LOAD CAPACITY OF THE MEMBER FOR THE SPAN INCREASED BY 15%, BUT NO MORE THAN THE SHEAR CAPACITY OF THE MEMBER.
3. FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS.
4. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2004).
5. MATERIALS:
   - A. W-SHAPES UNLESS NOTED: ASTM A992, F_Y = 50 KSI.
   - B. ROLLED SHAPES OTHER THAN W-SHAPES AND PLATES UNLESS NOTED: ASTM A36.

SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.7, 1704.8, 1704.9	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify existing soil conditions, fill placement and load bearing requirements	Y					
a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report.	Y	P	IBC 1704.7.1		PE/GE, EIT or ETT	
b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report.	Y	P	IBC 1704.7.2		PE/GE, EIT or ETT	
c. Test in-place dry density of compacted fill complies with the approved soils report.	Y	P	IBC 1704.7.2		PE/GE, EIT or ETT	
2. Pile foundations:	N					
a. Observe and record procedures for static load testing of piles.	N	C	IBC 1704.8		PE/GE, EIT or ETT	
b. Observe and record procedures for dynamic load testing of piles.	N	C			PE/GE, EIT or ETT	
c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference.	N	C			PE/GE, EIT or ETT	
d. Test welded splices of steel piles	N	C	AWS D1.1		AWS-CWI	
3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F.	N	C	IBC 1704.9		PE/GE, EIT or ETT	
a. Verify pier diameter and length	N	C			PE/GE, EIT or ETT	
b. Verify pier embedment (socket) into bedrock	N	P			PE/GE, EIT or ETT	
c. Verify suitability of end bearing strata	N	P			PE/GE, EIT or ETT	

CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.4	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7		PE/SE or EIT	
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N		Welding of Reinf Not Allowed		AWS-CWI	
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	N	C	IBC 1912.5		PE/SE or EIT	
4. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4		PE/SE or EIT	
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8		ACI-CFTT or ACI-STT	
6. Inspection of concrete and shotcrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10		PE/SE or EIT	
7. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13		PE/SE or EIT	
8. Inspection of Prestressed Concrete	N					
a. Application of prestressing force.	N	C	ACI 318: 18.20		PE/SE or EIT	
b. Grouting of bonded prestressing tendons in seismic force resisting system	N	C	ACI 318: 18.18.4		PE/SE or EIT	
9. Erection of precast concrete members	N	P	ACI 318: Ch 16		PE/SE or EIT	
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beans and structural slabs	N	P	ACI 318: 6.2		ACI-STT	

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Material verification of high-strength bolts, nuts and washers:	Y					
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3		PE/SE or EIT	
b. Manufacturer's certificate of compliance required.	Y	S			PE/SE or EIT	
2. Inspection of high-strength bolting	Y					
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5 IBC Sect 1704.3.3		AWS/AISC-SSI	
b. Slip-critical connections.	Y	C or P (method dependent)			AWS/AISC-SSI	
3. Material verification of structural steel (IBC Sect 1708.4):	Y					
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4		PE/SE or EIT	
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4		PE/SE or EIT	
4. Material verification of weld filler materials:	Y					
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5		PE/SE or EIT	
b. Manufacturer's certificate of compliance required.	Y	S			PE/SE or EIT	
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1		PE/SE or EIT	
6. Inspection of welding (IBC 1704.3.1):	Y					
a. Structural steel:						
1) Complete and partial penetration groove welds.	Y	C	AWS D1.1		AWS-CWI	
2) Multipass fillet welds.	Y	C			AWS-CWI	
3) Single-pass fillet welds~ 5/16"	Y	C			AWS-CWI	
4) Single-pass fillet welds< 5/16"	Y	P			AWS-CWI	
5) Floor and deck welds.	Y	P	AWS D1.3		AWS-CWI	
b. Reinforcing steel (IBC Sect 1903.5.2):						
1) Verification of weldability of reinforcing steel other than ASTM A706.	N	C	AWS D1.4 ACI 318: 3.5.2			
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	N	C			AWS-CWI	
3) Shear reinforcement.	N	C			AWS-CWI	
4) Other reinforcing steel.	N	P			AWS-CWI	
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:	N					
a. Details such as bracing and stiffening.	N	P			PE/SE or EIT	
b. Member locations.	N	P			PE/SE or EIT	
c. Application of joint details at each connection.	N	P			PE/SE or EIT	

Structural Schedule of Special Inspections
MASONRY CONSTRUCTION – LEVEL 1 (NON-ESSENTIAL FACILITY)

VERIFICATION AND INSPECTION IBC Section 1704.5	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. As masonry construction begins, the following shall be verified to ensure compliance:	Y					
a. Proportions of site-prepared mortar.	Y	P	ACI530.1, 2.6A		PE/SE or EIT	
b. Construction of mortar joints.	Y	P	ACI530.1, 3.3B		PE/SE or EIT	
c. Location of reinforcement and connectors.	Y	P	ACI530.1, 3.4, 3.6A		PE/SE or EIT	
d. Prestressing technique.	N	P	ACI530.1, 3.6B		PE/SE or EIT	
e. Grade and size of prestressing tendons and anchorages.	N	P	ACI530.1, 2.4B, 2.4H		PE/SE or EIT	
2. The inspection program shall verify:	Y					
a. Size and location of structural elements.	Y	P	ACI530.1, 3.3G		PE/SE or EIT	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	Y	P	ACI530, 1.2.2(e), 2.1.4, 3.1.6		PE/SE or EIT	
c. Specified size, grade and type of reinforcement.	Y	P	ACI530, 1.12, ACI530.1, 2.4, 3.4		PE/SE or EIT	
d. Welding of reinforcing bars.	N	C	ACI530, 2.1.10.6.2, 3.2..4 (b)		AWS-CWI	
e. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	Y	P	IBC 2104.3, 2104.4; ACI530.1, 1.8C, 1.8D		PE/SE or EIT	
f. Application and measurement of prestressing force.	N	P	ACI530.1, 3.6B		PE/SE or EIT	
3. Prior to grouting, the following shall be verified to ensure compliance:	Y					
a. Grout space is clean.	Y	P	ACI530.1, 3.2D		PE/SE or EIT	
b. Placement of reinforcement and connectors and prestressing tendons and anchorages.	Y	P	ACI530, 1.12, ACI530.1, 3.4		PE/SE or EIT	
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	Y	P	ACI530.1, 2.6B		PE/SE or EIT	
d. Construction of mortar joints.	Y	P	ACI530.1, 3.3B		PE/SE or EIT	
4. Grout placement shall be verified to ensure compliance with code and construction document provisions.	Y	C	ACI530.1, 3.5		PE/SE or EIT	
a. Grouting of prestressing bonded tendons.	N	C	ACI530.1, 3.6C		PE/SE or EIT	
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	Y	C	IBC 2105.2.2, 2105.3; ACI530.1, 1.4		PE/SE or EIT	
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Y	P	ACI530.1, 1.5		PE/SE or EIT	

Structural Schedule of Special Inspection Services
FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. -OR- 2. AISC Certification	Y	S	Fabricator shall submit one of the two qualifications		PE/SE or EIT	
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.	Y	S	IBC 1704.2.2		PE/SE or EIT	

ABBREVIATIONS

B/ = BOTTOM OF
BLDG = BUILDING
BRG = BEARING
CFS = COLD FORMED STEEL
CIP = CAST IN PLACE
CJ = CONTROL JOINT
CL = CENTERLINE
CLR = CLEAR
CMU = CONCRETE MASONRY UNIT
COL = COLUMN
CONT = CONTINUOUS
DIA ø = DIAMETER
DEG = DEGREE
EA = EACH
EF = EACH FACE
EL = ELEVATION
EMB = EMBEDMENT
EQ = EQUAL
EX = EXISTING
EXP = EXPANSION
FD = FLOOR DRAIN
FDN = FOUNDATION
FLR = FLOOR
FS = FAR SIDE
FTG = FOOTING
GA = GAUGE
GALV = GALVANIZED
GT = GIRDER TRUSS
HORIZ = HORIZONTAL
JST BRG = JOIST BEARING
LLH = LONG LEG HORIZONTAL
LLV = LONG LEG VERTICAL
LSL = LAMINATED STRAND LUMBER
LVL = LAMINATED VENEER LUMBER
MCJ = MASONRY CONTROL JOINT
MET = METAL
MFR = MANUFACTURER
NS = NEAR SIDE
oc = ON CENTER
OPNG = OPENING
PE = PRE-ENGINEERED
PEMB = PRE-ENGINEERED METAL BUILDING
PL = PLATE
PSL = PARALLEL STRAND LUMBER
PT = PRESSURE TREATED
RD = ROOF DRAIN
REINF = REINFORCING
RTU = ROOF TOP UNIT
SBF = STEP BOTTOM OF FOOTING
SBS = STEP BOTTOM OF SLAB
SBW = STEP BOTTOM OF WALL
SF = STEP TOP OF FOOTING
SIM = SIMILAR
SL = STEP LEDGE
SPA = SPACE OR SPACES
SRD = SECONDARY ROOF DRAIN
STIFF = STIFFENER
STL = STEEL
STW = STEP TOP OF WALL
T/ = TOP OF
UNO = UNLESS NOTED OTHERWISE
VB = VERTICAL BRACING
VERT = VERTICAL
VIF = VERIFY IN FIELD
w/ = WITH
WP = WORK POINT

LEGEND

◯ = COLUMN LINE DESIGNATION
◇ LLV = LINTEL MARK, SEE SCHEDULE ON SHEET S2.1
⬡ Ftg = FOOTING MARK, SEE SCHEDULE ON EACH SHEET
Pn = PEDESTAL MARK, SEE SCHEDULE ON SHEET S2.0
⊕ = ELEVATION INDICATION
▱ = STEP FOOTING

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SPECIAL INSPECTIONS

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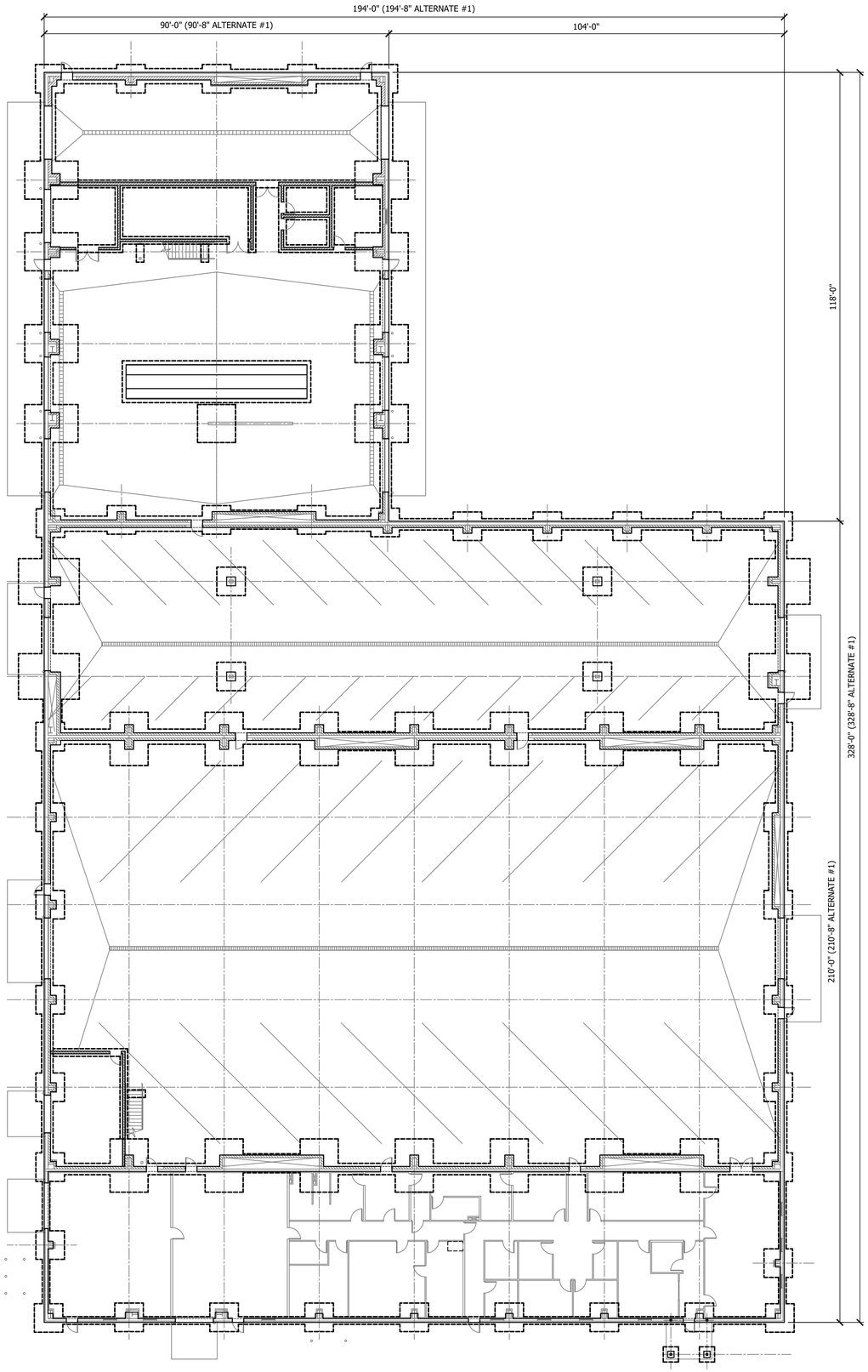

OVERALL FOUNDATION PLAN

1/16" = 1'-0"

NORTH

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OVERALL FOUNDATION PLAN

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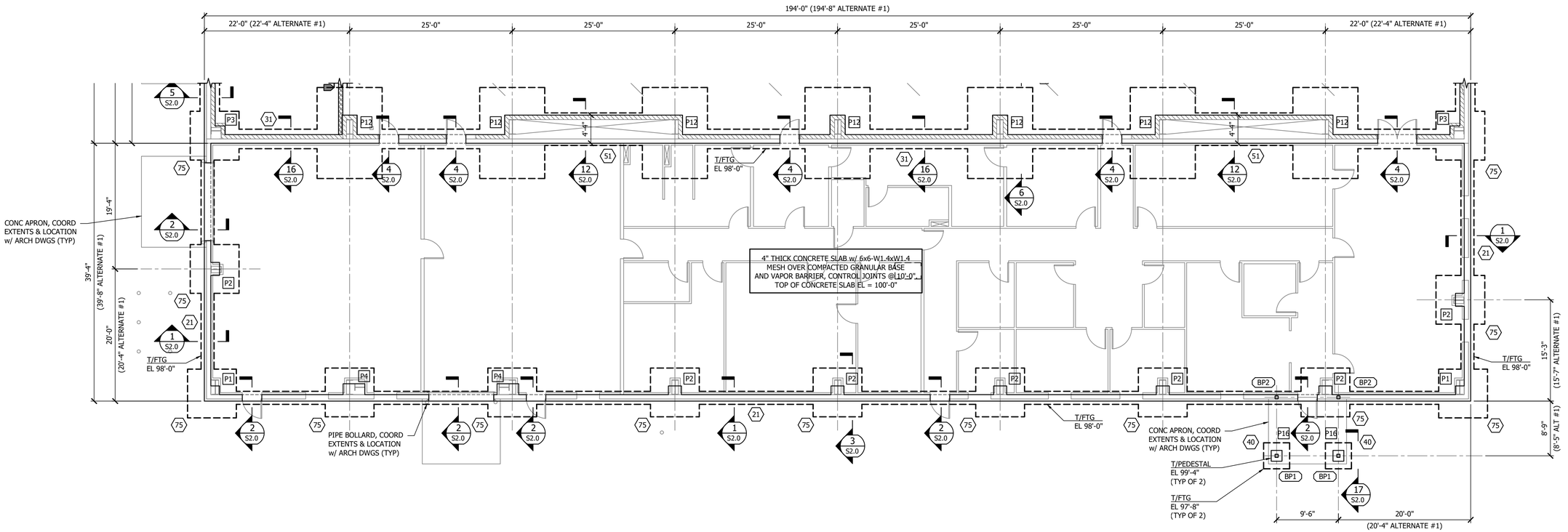
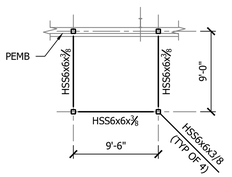


PARTIAL FOUNDATION PLAN

1/8" = 1'-0"

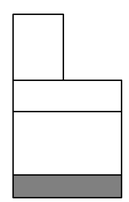
FOUNDATION NOTES:

1. REFERENCE PLAN ELEVATION 100'-0", COORDINATE w/ CIVIL DWGS
2. THE NATIONAL ELECTRIC CODE REQUIRES THAT THE BUILDING ELECTRICAL SYSTEM BE GROUNDED TO THE REINFORCING IN THE CONCRETE FOOTING. THE WORK ASSOCIATED WITH THIS REQUIREMENT AND THE METHOD USED SHALL BE COORDINATED BY THE CONTRACTOR. (NEC 250.52(A)(3))
3. SLOPE SLAB TO FLOOR DRAINS, COORDINATE w/ ARCHITECTURAL & PLUMBING DRAWINGS
4. COORDINATE ALL WALL LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION
5. MASONRY CONTROL JOINTS TO BE SPACED @ 25'-0"oc MAX, COORDINATE LOCATIONS w/ ARCHITECT



MAIN ENTRANCE FRAMING PLAN

1/8" = 1'-0"



KEY PLAN

NTS

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
21	2'-0"x1'-2" CONT	(2) #5 CONT	-
31	3'-0"x1'-2" CONT	(3) #5 CONT	-
40	4'-0"x4'-0"x1'-2"	(4) #5 EACH WAY	-
41	4'-0"x1'-2" CONT	(4) #5 CONT	-
51	5'-0"x1'-2" CONT	(5) #5 CONT	-
75	7'-6"x7'-6"x1'-2"	(6) #5 EACH WAY	TOP & BOTTOM
100	10'-0"x10'-0"x4'-0"	#5 @ 12"oc TOP #6 @ 12"oc BOTTOM	JIB CRANE
140	14'-0"x10'-0"x2'-6"	(17) #5 SHORT (9) #7 LONG	TOP & BOTTOM
160	16'-0"x12'-0"x2'-6"	(19) #5 SHORT (11) #7 LONG	TOP & BOTTOM

NOTES:

1. WHERE FOOTINGS INTERSECT, PROVIDE REINFORCING STEEL PER SCHEDULE & FOOTING SIZE SUCH THAT DIMENSIONS SHOWN IN SCHEDULE ARE MET OR EXCEEDED
2. CENTER ALL COLUMN FOOTINGS AND PEDESTALS UNDER COLUMN CENTERLINES, UNO IN PLAN OR SECTION

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PARTIAL FOUNDATION PLAN

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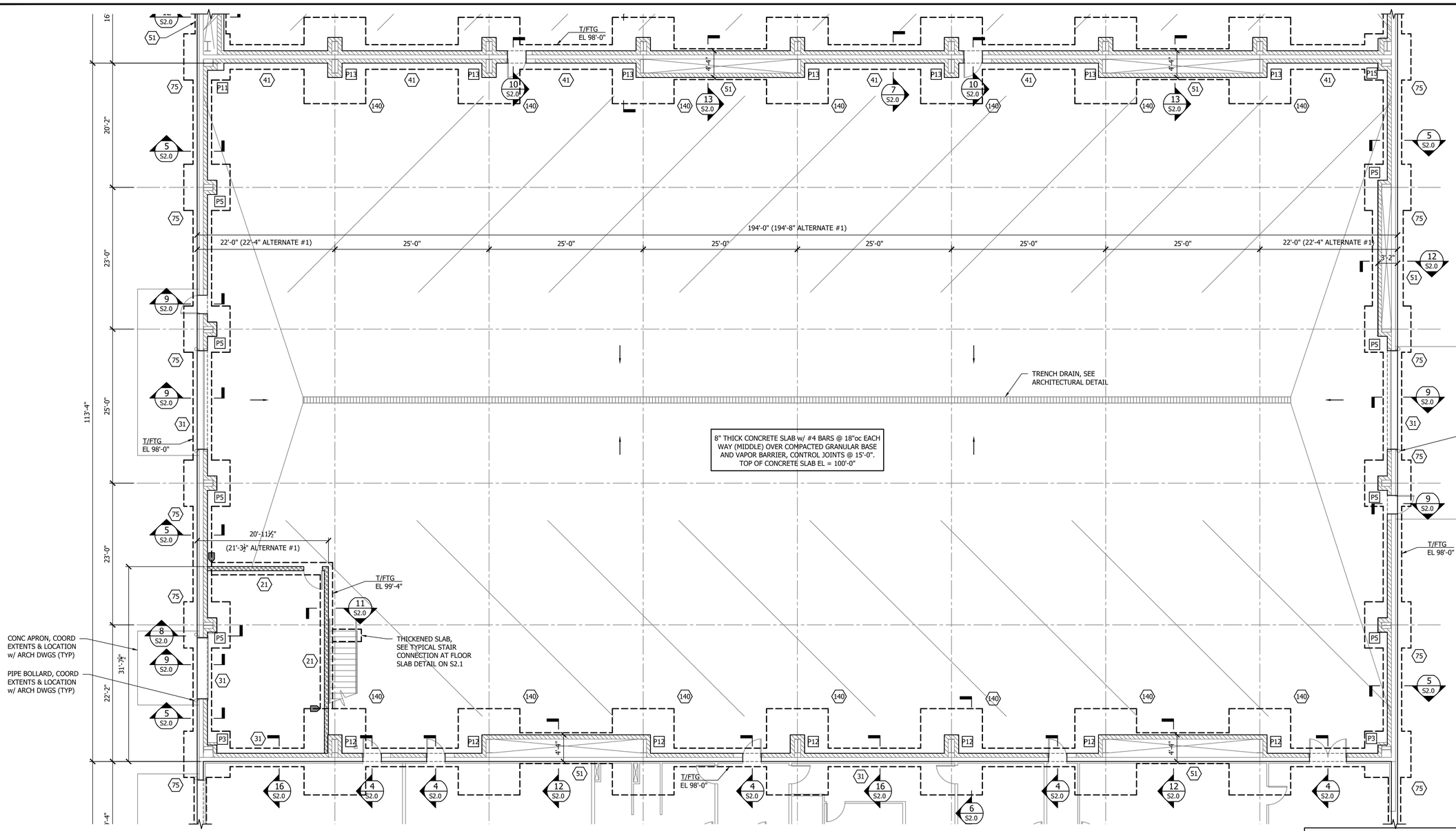
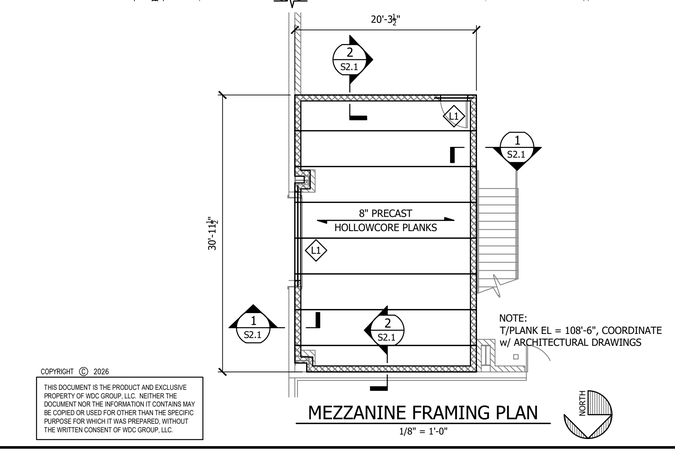
32 OF 112





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

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

FOUNDATION NOTES:
1. REFERENCE PLAN ELEVATION 100'-0", COORDINATE w/ CIVIL DWGS
16A 2. THE NATIONAL ELECTRIC CODE REQUIRES THAT THE BUILDING ELECTRICAL SYSTEM BE GROUNDED TO THE REINFORCING IN THE CONCRETE FOOTING. THE WORK ASSOCIATED WITH THIS REQUIREMENT AND THE METHOD USED SHALL BE COORDINATED BY THE CONTRACTOR. (NEC 250.52(A)(3))
3. SLOPE SLAB TO FLOOR DRAINS, COORDINATE w/ ARCHITECTURAL & PLUMBING DRAWINGS
4. COORDINATE ALL WALL LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION
5. MASONRY CONTROL JOINTS TO BE SPACED @ 25'-0"oc MAX, COORDINATE LOCATIONS w/ ARCHITECT

KEY PLAN
NTS

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
21	2'-0"x1'-2" CONT	(2) #5 CONT	-
31	3'-0"x1'-2" CONT	(3) #5 CONT	-
40	4'-0"x4'-0"x1'-2"	(4) #5 EACH WAY	-
41	4'-0"x1'-2" CONT	(4) #5 CONT	-
51	5'-0"x1'-2" CONT	(5) #5 CONT	-
75	7'-6"x7'-6"x1'-2"	(6) #5 EACH WAY	TOP & BOTTOM
100	10'-0"x10'-0"x4'-0"	#5 @ 12"oc TOP #6 @ 12"oc BOTTOM	JIB CRANE
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PARTIAL FOUNDATION PLAN

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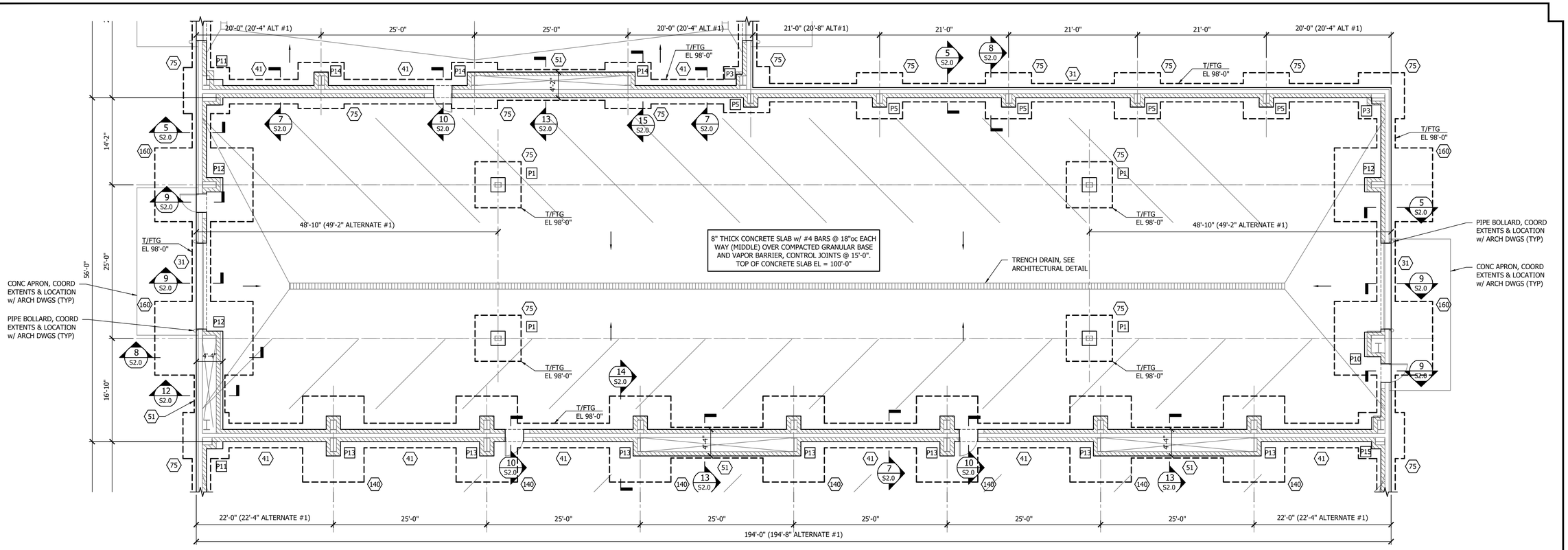

PARTIAL FOUNDATION PLAN

1/8" = 1'-0"

NORTH

FOUNDATION NOTES:

1. REFERENCE PLAN ELEVATION 100'-0", COORDINATE w/ CIVIL DWGS
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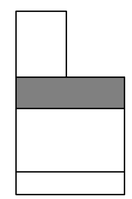

KEY PLAN

NTS

NORTH

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
21	2'-0"x1'-2" CONT	(2) #5 CONT	-
31	3'-0"x1'-2" CONT	(3) #5 CONT	-
40	4'-0"x4'-0"x1'-2"	(4) #5 EACH WAY	-
41	4'-0"x1'-2" CONT	(4) #5 CONT	-
51	5'-0"x1'-2" CONT	(5) #5 CONT	-
75	7'-6"x7'-6"x1'-2"	(6) #5 EACH WAY	TOP & BOTTOM
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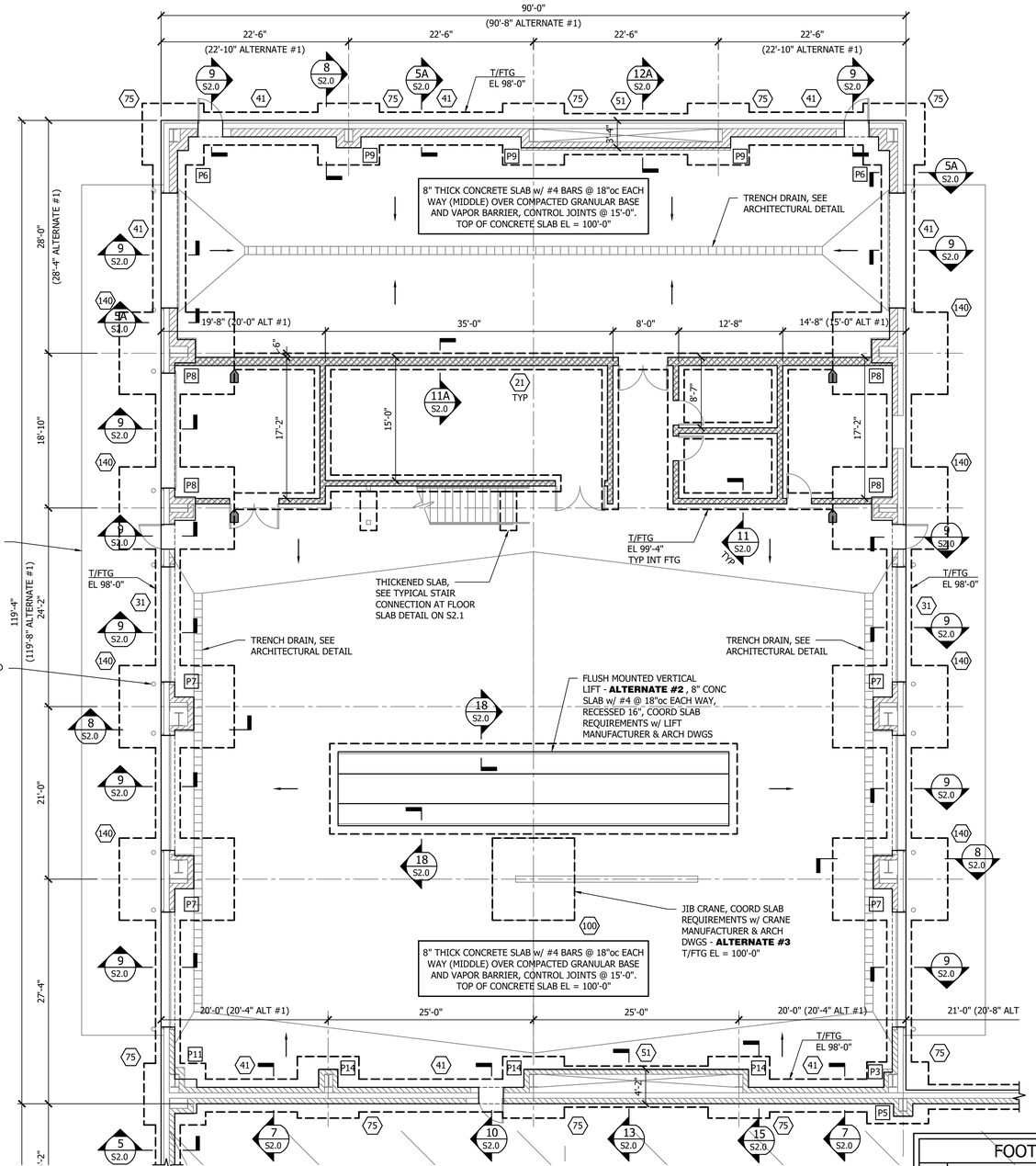

PARTIAL FOUNDATION PLAN

1/8" = 1'-0"

NORTH

FOUNDATION NOTES:

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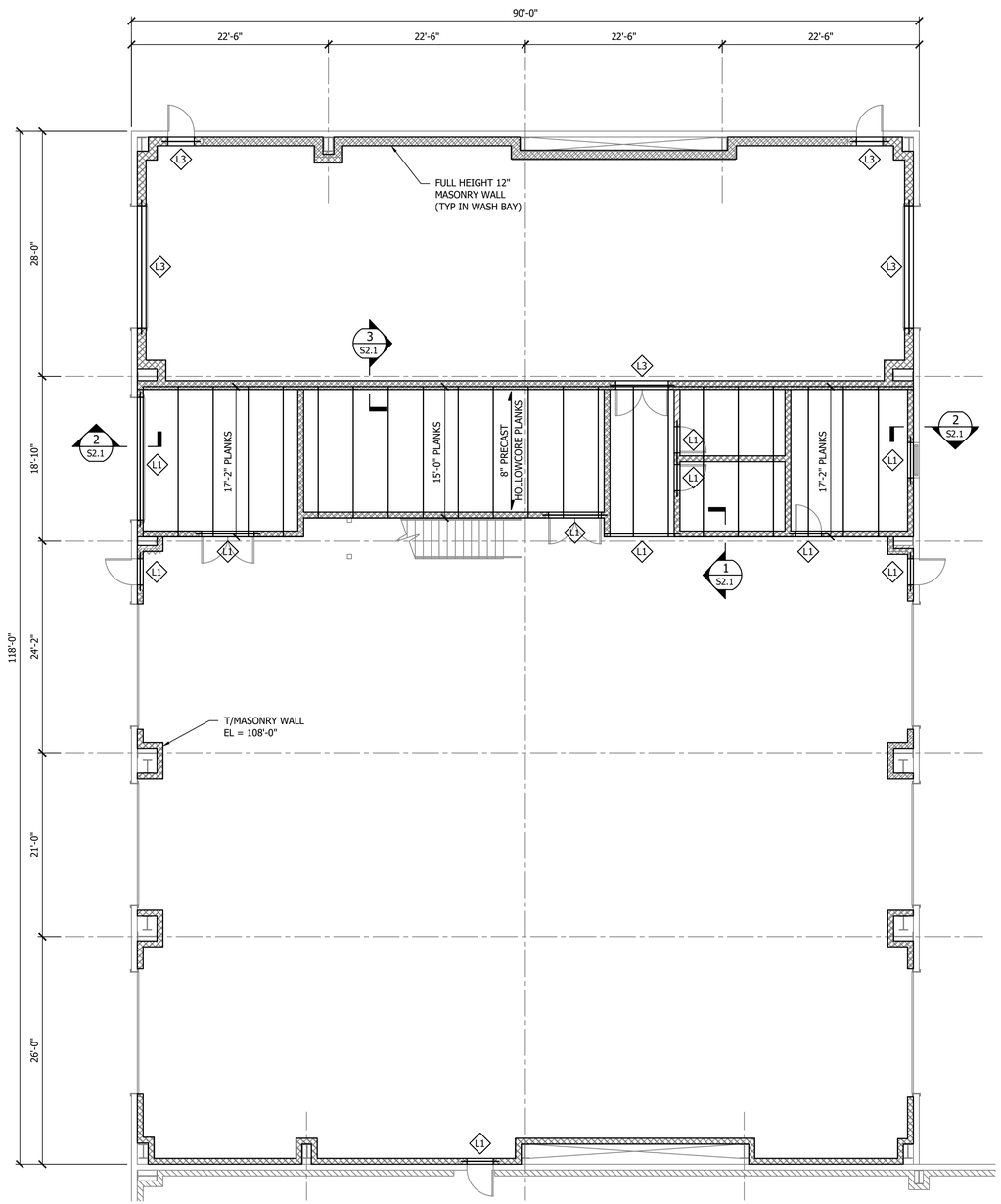

MEZZANINE FRAMING PLAN

1/8" = 1'-0"

NORTH

NOTE:
T/PLANK EL = 108'-6", COORDINATE w/ ARCHITECTURAL DRAWINGS

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
21	2'-0"x1'-2" CONT	(2) #5 CONT	-
31	3'-0"x1'-2" CONT	(3) #5 CONT	-
40	4'-0"x4'-0"x1'-2"	(4) #5 EACH WAY	-
41	4'-0"x1'-2" CONT	(4) #5 CONT	-
51	5'-0"x1'-2" CONT	(5) #5 CONT	-
75	7'-6"x7'-6"x1'-2"	(6) #5 EACH WAY	TOP & BOTTOM
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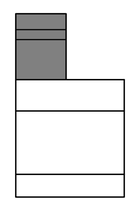

KEY PLAN

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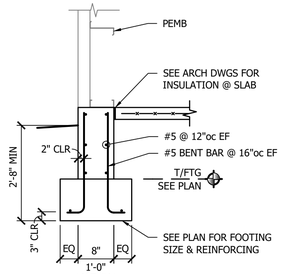
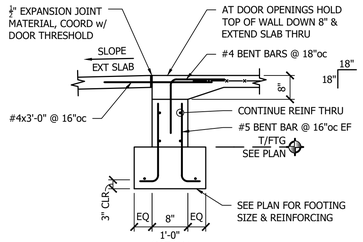
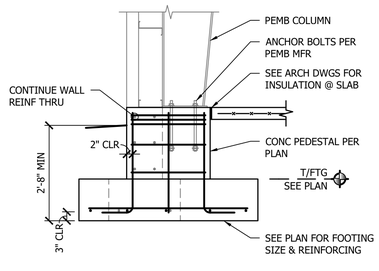


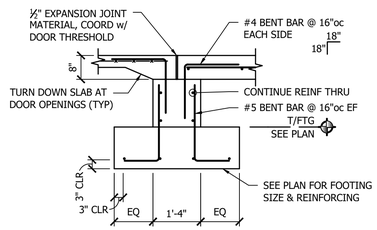
SECTION 1 S2.0
1/2" = 1'-0"



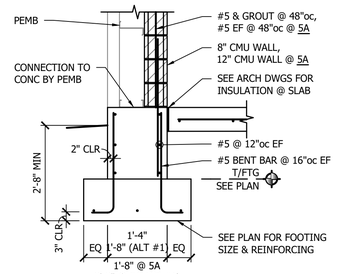
SECTION 2 S2.0
1/2" = 1'-0"



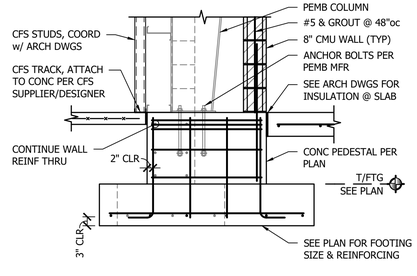
SECTION 3 S2.0
1/2" = 1'-0"



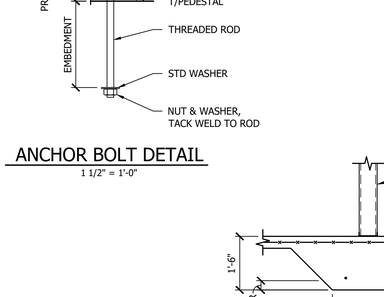
SECTION 4 S2.0
1/2" = 1'-0"



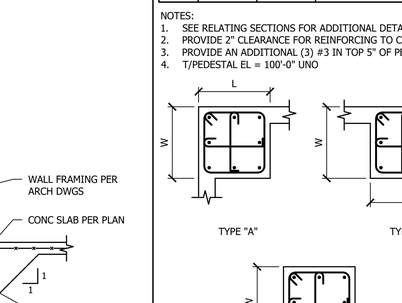
SECTION 5 5A S2.0 S2.0
1/2" = 1'-0"



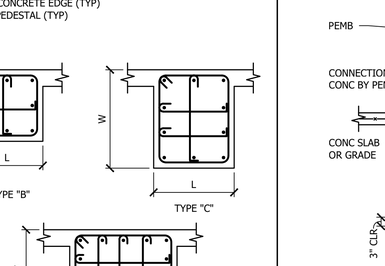
SECTION 6 S2.0
1/2" = 1'-0"



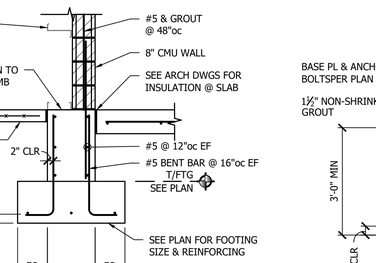
SECTION 7 S2.0
1/2" = 1'-0"



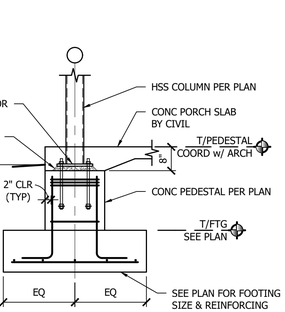
SECTION 8 S2.0
1/2" = 1'-0"



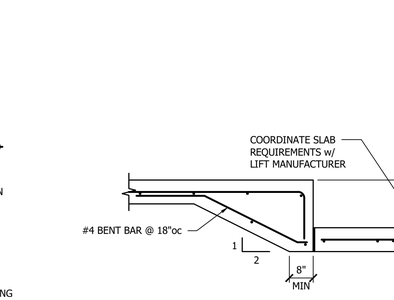
SECTION 9 S2.0
1/2" = 1'-0"



SECTION 10 S2.0
1/2" = 1'-0"

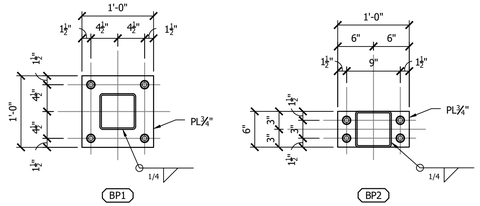


SECTION 11 11A S2.0 S2.0
1/2" = 1'-0"



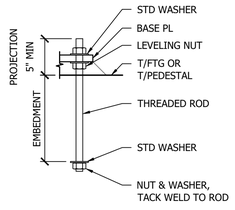
SECTION 12 12A S2.0 S2.0
1/2" = 1'-0"

COLUMN BASE PLATE SCHEDULE

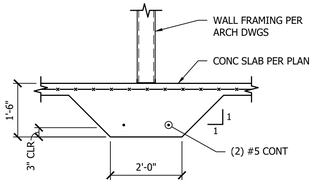


NOTE:
1. ALL ANCHOR BOLTS 3/4"ø w/ 9" EMB; SEE ANCHOR BOLT DETAIL THIS SHEET (TYP UNLESS NOTED OTHERWISE IN SECTIONS)

SCALE: 1" = 1'-0"



ANCHOR BOLT DETAIL
1 1/2" = 1'-0"

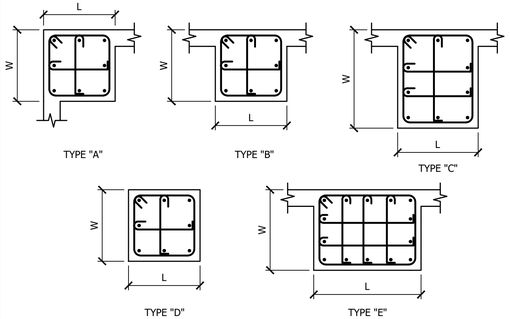


TYPICAL THICKENED SLAB DETAIL
1/2" = 1'-0"

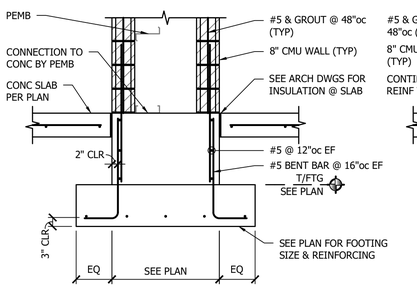
PEDESTAL SCHEDULE

MARK	SIZE LENGTH	SIZE WIDTH	REINFORCING	TYPE	COMMENT
P1	2'-4"	2'-4"	(8) #6 VERT & #3 TIES @ 10"oc	"A" or "D"	
P2	2'-0"	2'-4"	(8) #6 VERT & #3 TIES @ 10"oc	"B"	
P3	3'-2"	2'-8"	(12) #6 VERT & #3 TIES @ 10"oc	"A"	
P4	3'-4"	2'-8"	(12) #6 VERT & #3 TIES @ 10"oc	"E"	
P5	2'-4"	3'-2"	(10) #6 VERT & #3 TIES @ 10"oc	"C"	
P6	3'-4"	3'-8"	(12) #6 VERT & #3 TIES @ 10"oc	"A"	
P7	4'-0"	4'-0"	(14) #6 VERT & #3 TIES @ 10"oc	"E"	
P8	4'-2"	2'-10"	(12) #6 VERT & #3 TIES @ 10"oc	"C"	
P9	3'-4"	3'-0"	(10) #6 VERT & #3 TIES @ 10"oc	"C"	
P10	4'-0"	4'-4"	(14) #6 VERT & #3 TIES @ 10"oc	"E"	
P11	4'-2"	4'-4"	(14) #6 VERT & #3 TIES @ 10"oc	"E"	
P12	2'-4"	4'-4"	(12) #6 VERT & #3 TIES @ 10"oc	"C"	
P13	2'-4"	6'-6"	(16) #6 VERT & #3 TIES @ 10"oc	"C"	
P14	2'-4"	4'-2"	(12) #6 VERT & #3 TIES @ 10"oc	"C"	
P15	5'-2"	3'-2"	(14) #6 VERT & #3 TIES @ 10"oc	"E"	
P16	1'-8"	1'-8"	(8) #6 VERT & #3 TIES @ 10"oc	"D"	

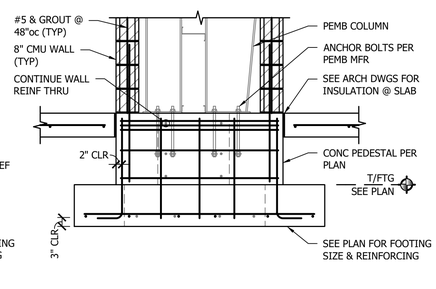
NOTES:
1. SEE RELATING SECTIONS FOR ADDITIONAL DETAILS
2. PROVIDE 2" CLEARANCE FOR REINFORCING TO CONCRETE EDGE (TYP)
3. PROVIDE AN ADDITIONAL (3) #3 IN TOP 5" OF PEDESTAL (TYP)
4. T/PEDESTAL EL = 100'-0" UNO



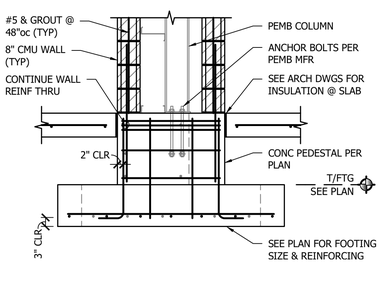
NOTES:
1. PRE-ENGINEERED METAL BUILDING FOUNDATION (PEMB):
   A. FOUNDATION IS BASED ON PRELIMINARY FOUNDATION REACTIONS PROVIDED BY AMERICAN BUILDINGS, DATED APRIL 6, 2026
   B. PEMB FOUNDATION DESIGN IS CONSIDERED PRELIMINARY UNTIL FINAL STAMPED/DESIGNED DOCUMENTS ARE PROVIDED FOR REVIEW AND UPDATED ACCORDINGLY



SECTION 13 S2.0
1/2" = 1'-0"



SECTION 14 S2.0
1/2" = 1'-0"



SECTION 15 S2.0
1/2" = 1'-0"

SECTION 16 S2.0
1/2" = 1'-0"

SECTION 17 S2.0
1/2" = 1'-0"

SECTION 18 S2.0
1/2" = 1'-0"
ALTERNATE #2

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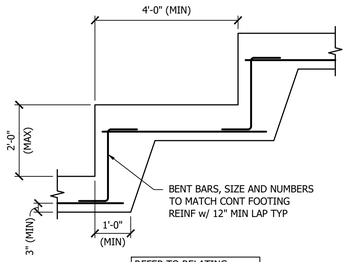
small city. big opportunity.

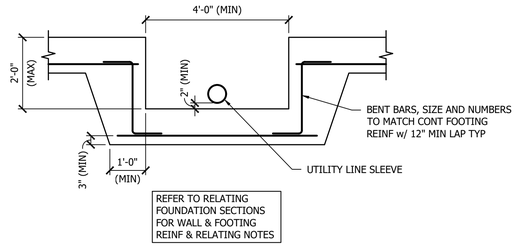
A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
FOUNDATION DETAILS

PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

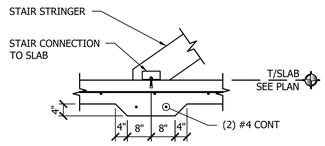
S2.0
36 OF 112



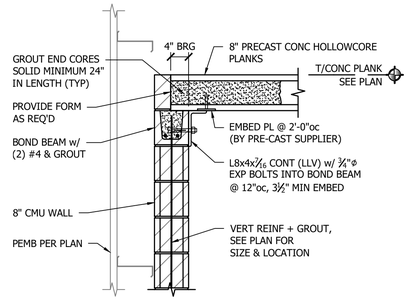
TYPICAL FOOTING STEP
1/2" = 1'-0"



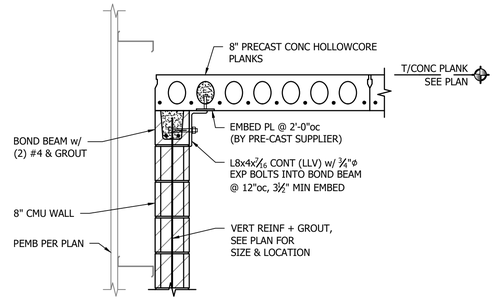
TYPICAL FOOTING DETAIL @ UTILITY LINES
1/2" = 1'-0"



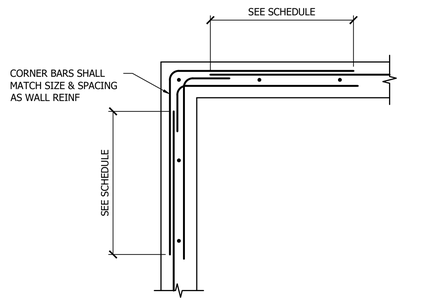
TYPICAL STAIR CONNECTION AT FLOOR SLAB
1/2" = 1'-0"



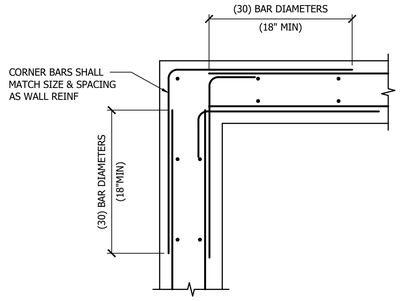
SECTION 1 / S2.1
3/4" = 1'-0"



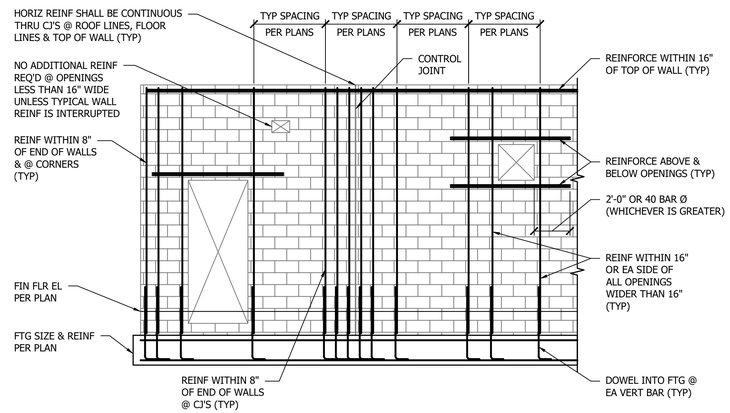
SECTION 2 / S2.1
3/4" = 1'-0"



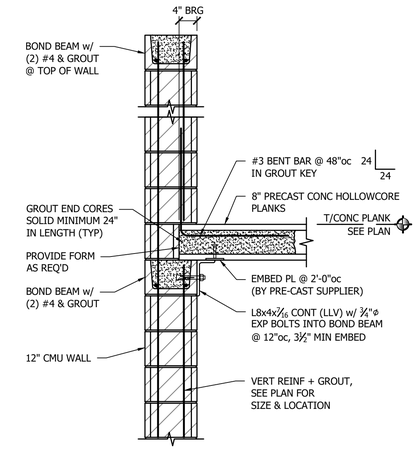
WALL CORNER TYPICAL REINFORCING
3/4" = 1'-0"



WALL CORNER TYPICAL REINFORCING
3/4" = 1'-0"

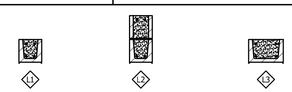


PLACEMENT OF MASONRY WALL REINFORCEMENT
1/4" = 1'-0"

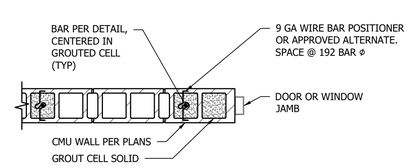


SECTION 3 / S2.1
3/4" = 1'-0"

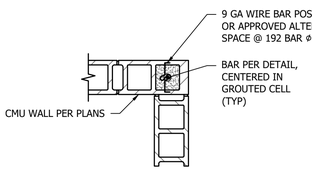
LINTEL SCHEDULE		
MARK	SIZE	REMARKS
L1	8"x8" BOND BEAM w/ (2) #5 CONT T&B	8" BRG EA END
L2	8"x16" BOND BEAM w/ (2) #5 CONT T&B	8" BRG EA END
L3	12"x8" BOND BEAM w/ (2) #5 CONT T&B	8" BRG EA END



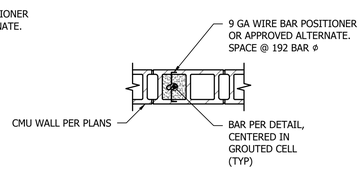
NOTES:
1. GROUT (3) COURSES SOLID BELOW BEARING UNO



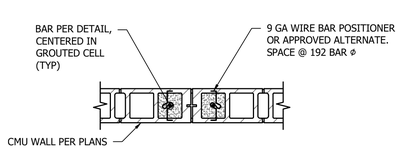
TYPICAL CMU REINF AT JAMB
3/4" = 1'-0"



TYPICAL CMU REINF AT CORNER
3/4" = 1'-0"



TYPICAL CMU BAR POSITIONER
3/4" = 1'-0"



TYPICAL CMU REINF AT JAMB
3/4" = 1'-0"

LINTEL SCHEDULE		
MARK	SIZE	REMARKS
L1	(2) L3½x3½x5/16	8" BRG EA END
L2	(3) 6x3½x5/16 (LLV)	8" BRG EA END

NOTES:
1. GROUT (3) COURSES SOLID BELOW BEARING UNO
2. CENTER LINTEL UNDER CMU, UNO ON PLAN OR SECTION

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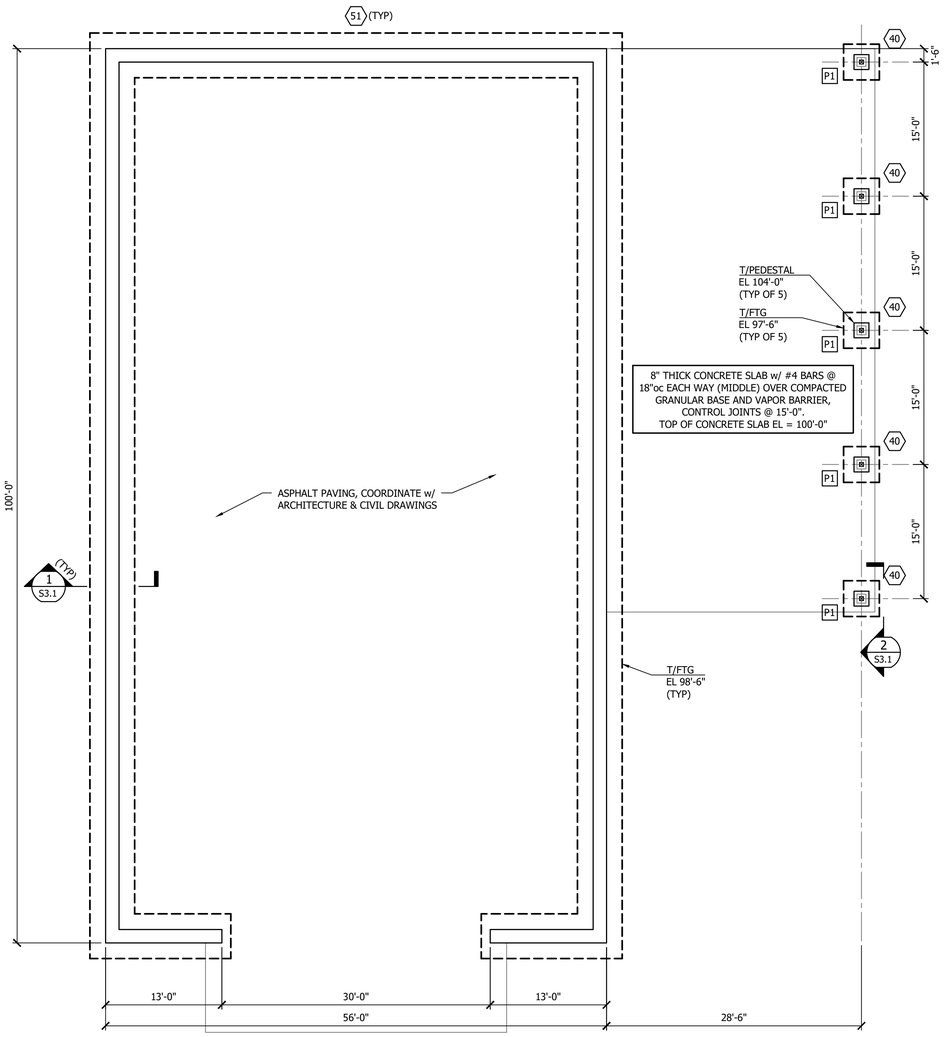
small city, big opportunity

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
800 NORTHWOODS BLVD
VANDALIA, OHIO 45377
DETAILS

PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

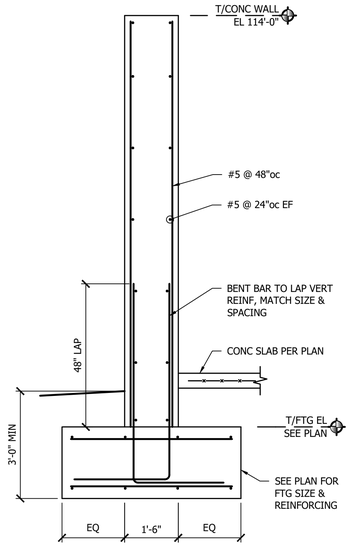
S2.1
37 OF 112



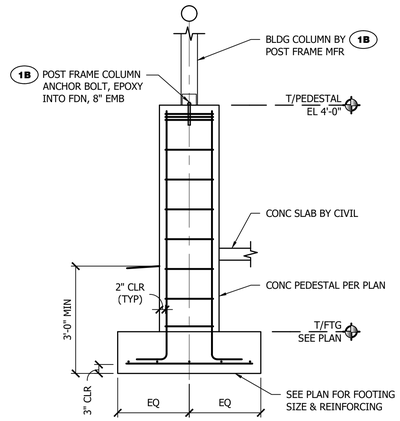
FOUNDATION PLAN
1/8" = 1'-0"

NORTH

NOTES
1. REFERENCE PLAN ELEVATION 100'-0", COORDINATE w/ CIVIL



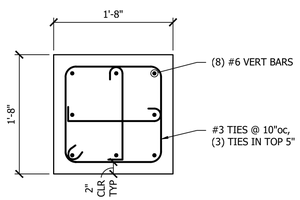
SECTION 1/S3.1
1/2" = 1'-0"



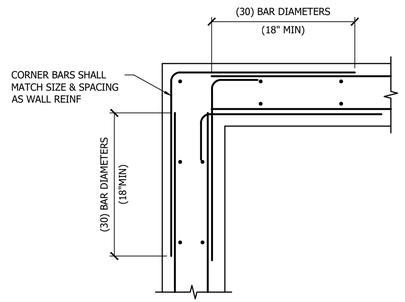
SECTION 2/S3.1
1/2" = 1'-0"

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
40	4'-0"x4'-0"x1'-0"	(4) #5 EACH WAY	-
51	5'-0"x2'-0" CONT	(4) #5 CONT TOP & BOTTOM	-

NOTES:
1. WHERE FOOTINGS INTERSECT, PROVIDE REINFORCING STEEL PER SCHEDULE & FOOTING SIZE SUCH THAT DIMENSIONS SHOWN IN SCHEDULE ARE MET OR EXCEEDED
2. CENTER ALL COLUMN FOOTINGS AND PEDESTALS UNDER COLUMN CENTERLINES, UNO IN PLAN OR SECTION



P1 PEDESTAL PLAN DETAIL
1" = 1'-0"



WALL CORNER TYPICAL REINFORCING
3/4" = 1'-0"

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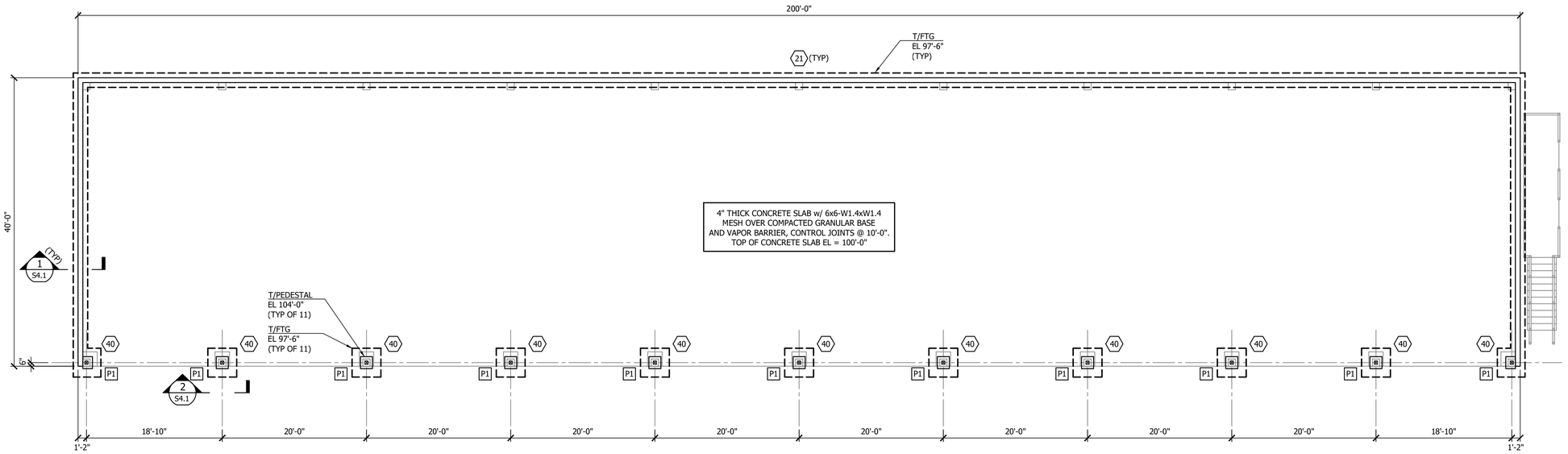
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

SALT STORAGE FOUNDATION PLAN

PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

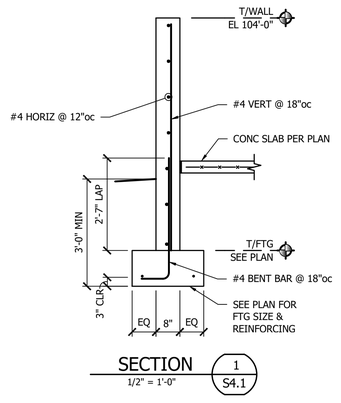
S3.1
38 OF 112



FOUNDATION PLAN

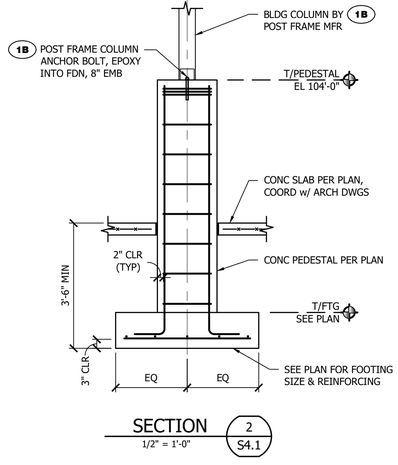
1/8" = 1'-0"

NORTH



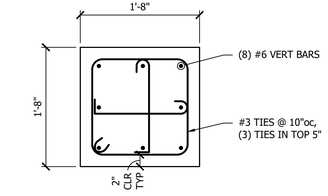
SECTION 1 / S4.1

1/2" = 1'-0"



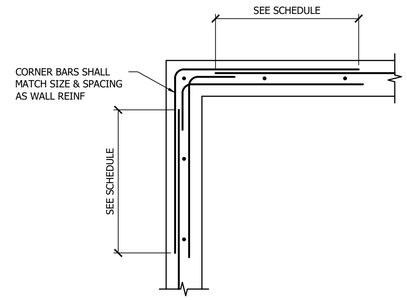
SECTION 2 / S4.1

1/2" = 1'-0"



P1 PEDESTAL PLAN DETAIL

1" = 1'-0"



WALL CORNER TYPICAL REINFORCING

3/4" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
21	2'-0"x1'-0" CONT	(2) #5 CONT	-
40	4'-0"x4'-0"x1'-0"	(4) #5 EACH WAY	-

NOTES:
1. WHERE FOOTINGS INTERSECT, PROVIDE REINFORCING STEEL PER SCHEDULE & FOOTING SIZE SUCH THAT DIMENSIONS SHOWN IN SCHEDULE ARE MET OR EXCEEDED
2. CENTER ALL COLUMN FOOTINGS AND PEDESTALS UNDER COLUMN CENTERLINES, UNO IN PLAN OR SECTION

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ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

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23.811.05

REVISIONS:
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67439
REGISTERED
PROFESSIONAL ENGINEER

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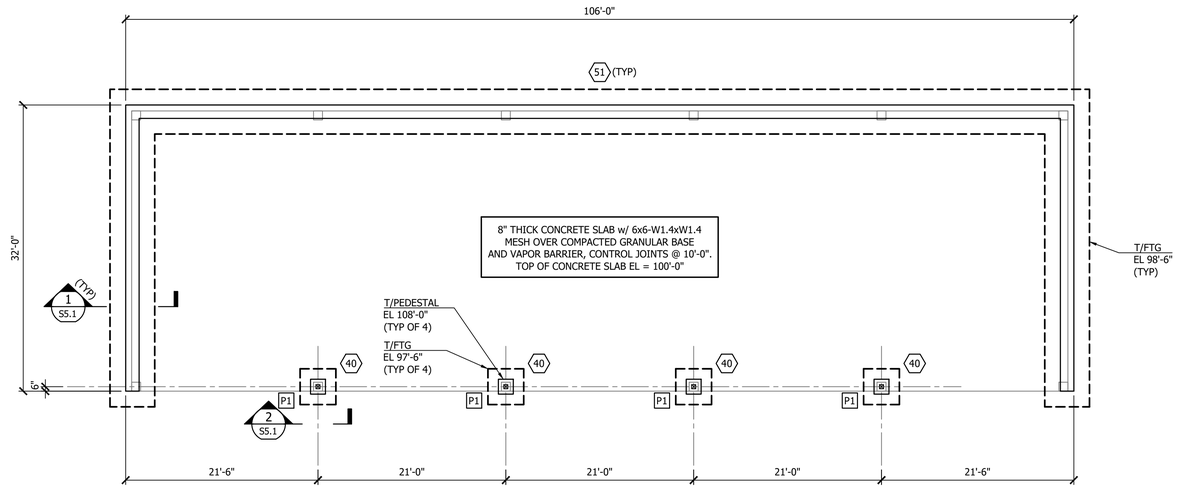
A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

COLD STORAGE FOUNDATION PLAN

PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

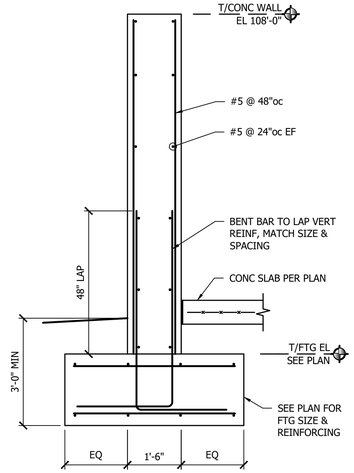
S4.1
39 OF 112



FOUNDATION PLAN

1/8" = 1'-0"

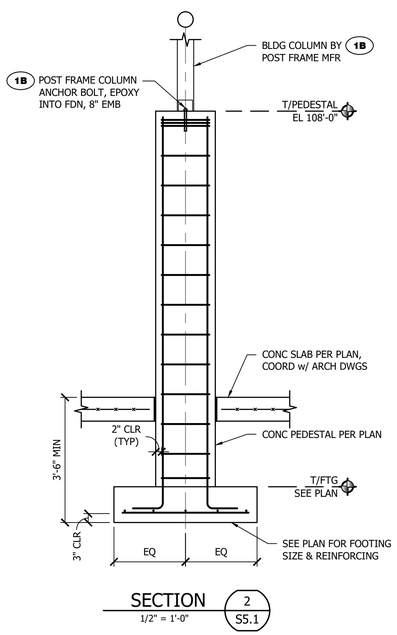
NORTH



SECTION 1

1/2" = 1'-0"

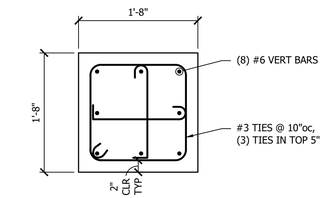
S5.1



SECTION 2

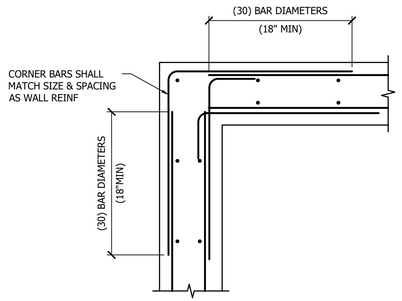
1/2" = 1'-0"

S5.1



P1 PEDESTAL PLAN DETAIL

1" = 1'-0"



WALL CORNER TYPICAL REINFORCING

3/4" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
40	4'-0"x4'-0"x1'-0"	(4) #5 EACH WAY	-
51	5'-0"x2'-0" CONT	(4) #5 CONT TOP & BOTTOM	-

NOTES:

1. WHERE FOOTINGS INTERSECT, PROVIDE REINFORCING STEEL PER SCHEDULE & FOOTING SIZE SUCH THAT DIMENSIONS SHOWN IN SCHEDULE ARE MET OR EXCEEDED
2. CENTER ALL COLUMN FOOTINGS AND PEDESTALS UNDER COLUMN CENTERLINES, UNO IN PLAN OR SECTION

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10091 Montellier Lane
West Chester, OH 45069
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REVISIONS:
- -
- -

STATE OF OHIO
JEFFREY M. REDER
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PROFESSIONAL ENGINEER

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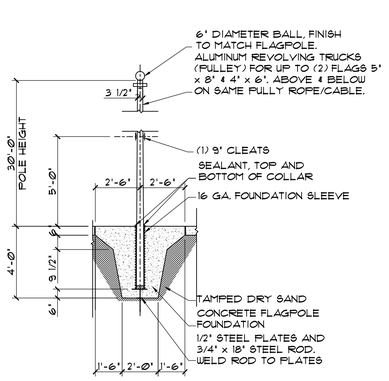
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

MATERIAL STORAGE FOUNDATION PLAN

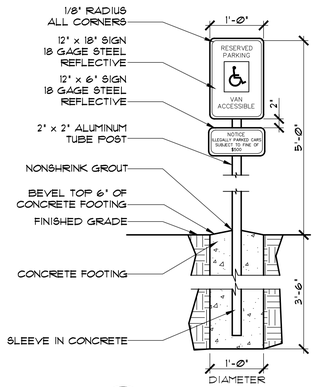
PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

S5.1

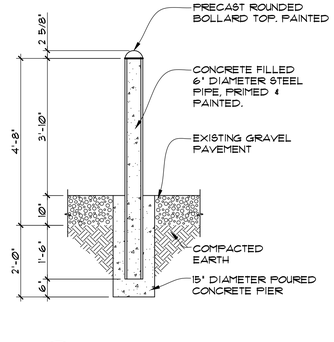
40 OF 112



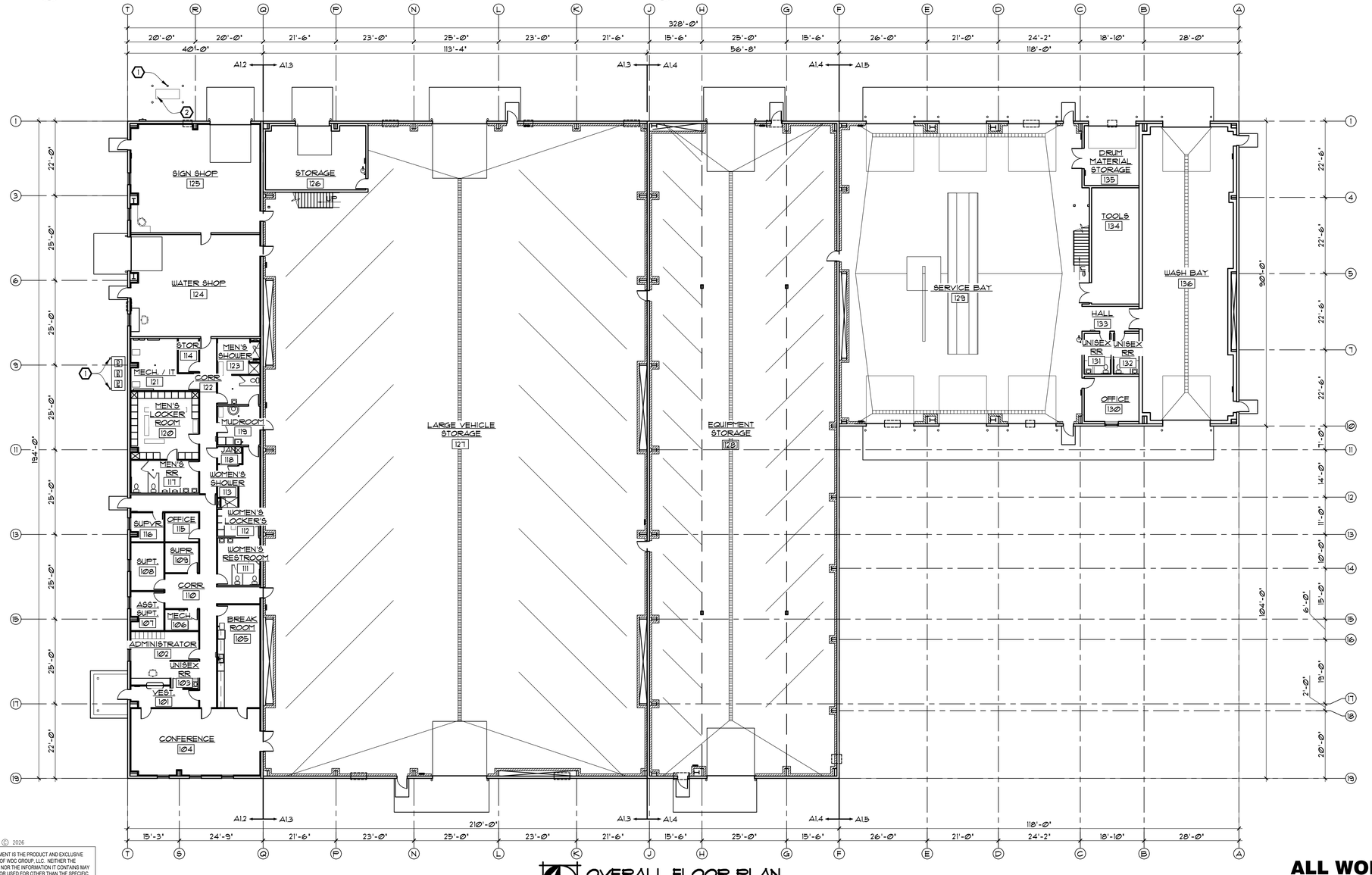
1 A1.1 **FLAGPOLE DETAIL**
SCALE: 1/4"=1'-0"



2 A1.1 **HC SIGN DETAIL**
SCALE: 3/4" = 1'-0"



3 A1.1 **BOLLARD DETAIL**
SCALE: 1/2" = 1'-0"



OVERALL FLOOR PLAN
SCALE: 1/16"=1'-0"

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GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

(1) PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A1.1.

(1A)(2) GENERATOR. PROVIDE 12" THICK CONCRETE SLAB AS RECOMMENDED BY MANUFACTURER. COORDINATE LOCATION WITH ALL CONTRACTORS.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
80 NORTHWOODS BLVD
VANDALIA, OHIO 45377

OVERALL FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

A1.1
41 OF 112

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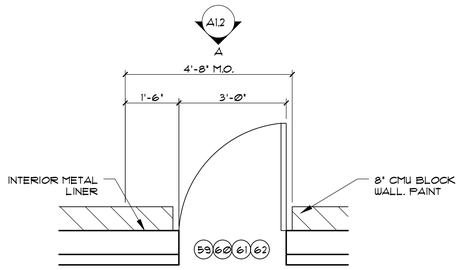
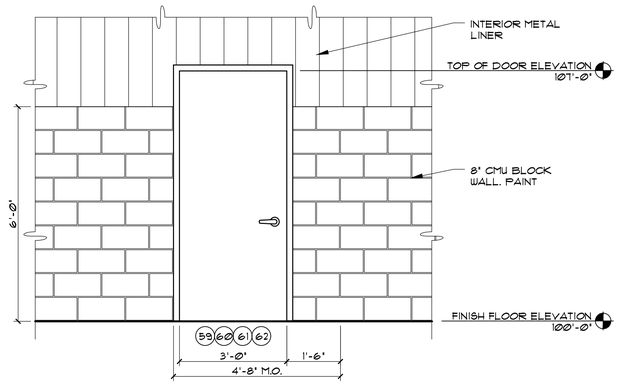


ENLARGED ADA DOOR PLAN

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



A / A1.2 DOOR ELEVATION

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

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

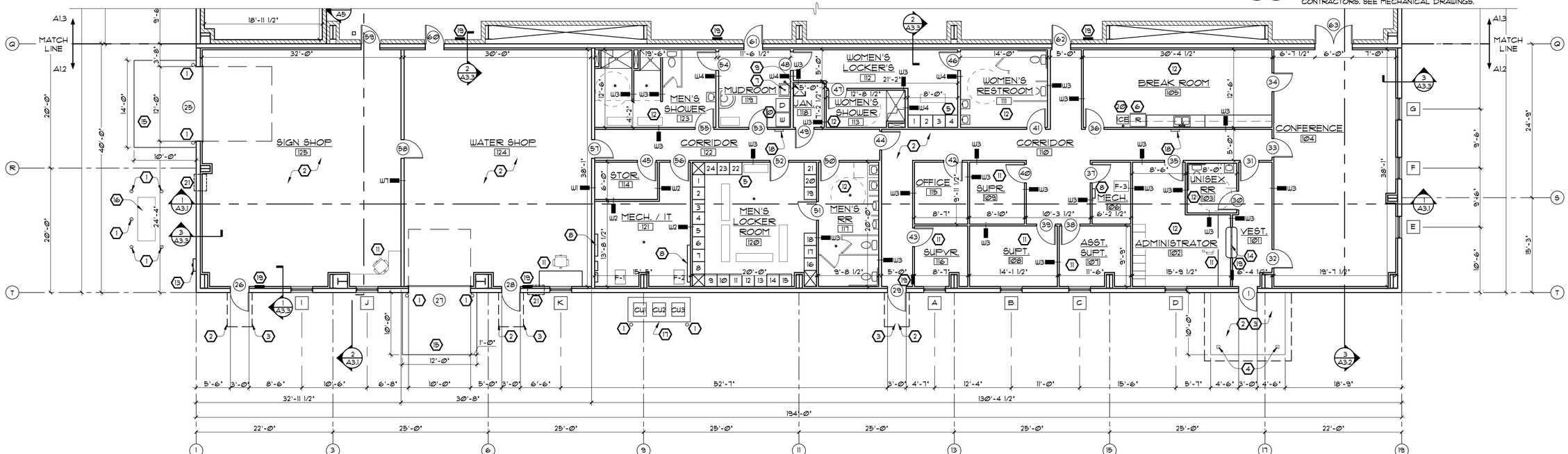
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

1. PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A1.1.
2. 4" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S1.1 FOR ADDITIONAL INFORMATION.
3. AWNING ABOVE. INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE. COORDINATE LOCATION OF LIGHT FIXTURES.
4. 6"x6" STRUCTURAL COLUMN. FRAME COLUMN TO BE SQUARE. WRAP WITH METAL.
5. PROVIDE AND INSTALL LOCKERS. PROVIDE BLOCKING AS REQUIRED. VERIFY LOCATION WITH OWNER/ARCHITECT. SEE DETAIL 5/A8.1.
6. OWNER PROVIDED REFRIGERATORS. PROVIDE WATER AND ELECTRICAL CONNECTIONS FOR EACH.
7. PROVIDE A SINK WITH FAUCET THAT HAS A EYE WASH ATTACHMENT.
8. ELECTRICAL PANELS LOCATION. SEE ELECTRICAL DRAWINGS.
9. MOP SINK LOCATION. PROVIDE FRP ON ALL OF THE WALL. SEE PLUMBING PLANS.
10. OWNER PROVIDED RESIDENTIAL WASHER AND DRYER. SEE PLUMBING DRAWINGS.
11. OWNER PROVIDE DESK AND CHAIR.
12. SEE ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS ON SHEETS A6.1, A6.2, & A6.3.
13. CT CABINET, METER BASE & TRANSFER SWITCH. COORDINATE WITH UTILITY COMPANY.
14. PROVIDE & INSTALL SHATTER RESISTANT GLASS.
15. CONCRETE APRON. 4" POURED CONCRETE SLAB OVER 4" COMPACTED STONE W/ WI.4 x WI.4 WWM. & VAPOR BARRIER.
16. GENERATOR. PROVIDE 4" THICK CONCRETE SLAB AS RECOMMENDED BY MANUFACTURER. COORDINATE LOCATION WITH ALL CONTRACTORS.
17. MECHANICAL UNIT. INSTALL ON 4" CONCRETE PAD ISOLATED FROM ADJACENT SLAB. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR. GWL SHALL PROVIDE CONCRETE PAD.
18. PROVIDE & INSTALL WATER BOTTLE FILL STATION. SEE PLUMBING PLANS.
19. FIRE CABINET & FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.
20. ICE MAKER. PLUMBER SHALL INSTALL. COORDINATE LOCATION OF FLOOR DRAIN AND WATER PIPE.
21. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.



FLOOR PLAN

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

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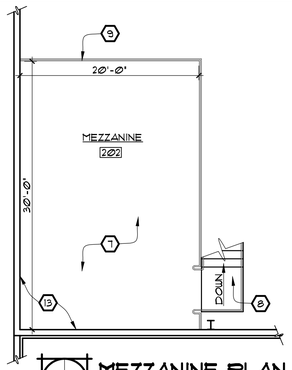
VANDALIA, OHIO 45377

FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

A1.2
42 OF 112



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

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

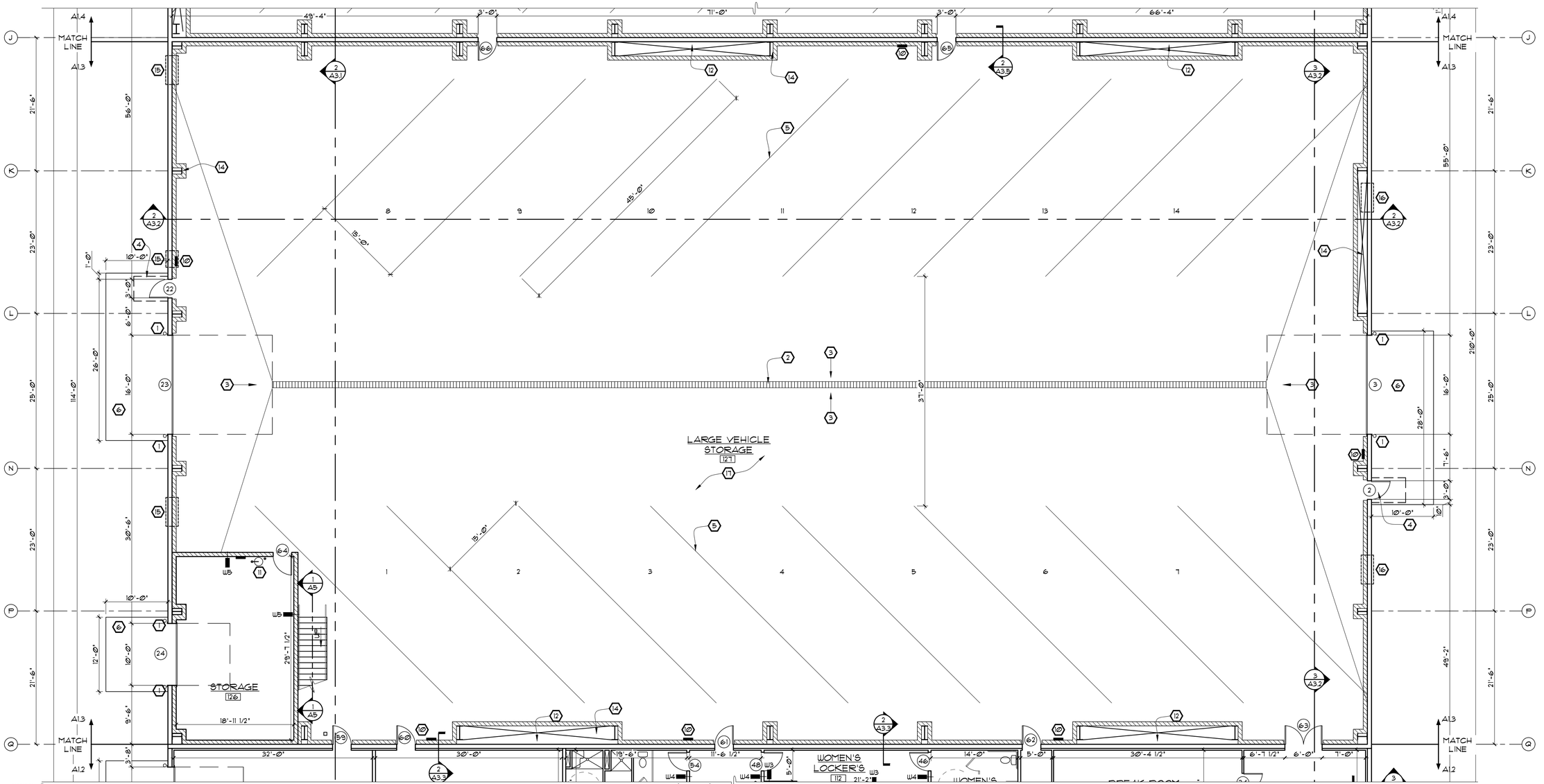
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

1. PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A1.1.
2. GW1L CONTRACTOR TO INSTALL 12" TRENCH DRAINS. PLUMBER SHALL CONNECT TRENCH DRAINS TO OIL INTERCEPTOR, PRIOR TO SANITARY. SEE PLUMBING PLAN. SEE DETAIL 3/A3.1.
3. SLOPE CONCRETE FLOOR 1/8" PER FOOT TO TRENCH DRAINS. VERIFY AND RECEIVE APPROVAL OF SLOPE PRIOR TO SLAB POUR.
4. AWNING ABOVE. INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE. COORDINATE LOCATION OF LIGHT FIXTURES.
5. PARKING STRIP AREA, 3" WIDE LINES, PAINT WHITE.
6. CONCRETE APRON, 4" POURED CONCRETE SLAB OVER 4" COMPACTED STONE W/ W1.4 x W1.4 WWM. & VAPOR BARRIER.
7. 8" PRECAST CONCRETE HOLLOWCORE PLANKS, SEE S2.1, AND S1.2.
8. SEE SHEET A5 FOR STAIR DETAILS.
9. STEEL RAILING WITH REMOVABLE SECTION. SEE DETAIL 6/A5.
10. FIRE CABINET & FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.
11. INSTALL EYE WASH STATION AND FLOOR DRAIN PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE A FLAT METAL SURFACE FOR PLUMBER TO INSTALL. SEE PLUMBING PLANS.
12. BRACING SUPPORT. SEE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHOP DRAWINGS.
13. ADD METAL LINER PANEL TO WALLS OVER MEZZANINE FROM MEZZANINE FLOOR TO DECK.
14. CONTRACTOR IS RESPONSIBLE FOR 6'-0" HIGH 8" BLOCK WALL TO ENCLOSE STRUCTURAL STEEL, COLUMNS, MAINFRAME, END WALL COLUMNS, X-BRACES, AND LOCATIONS OF STEEL SHOWN ON PRE ENGINEERED SHOP DRAWINGS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION ON CONSTRUCTION OF CMU WALL.
15. EXHAUST LOUVER , COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
16. INTAKE LOUVER, COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
17. 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S1.2 FOR ADDITIONAL INFORMATION.



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

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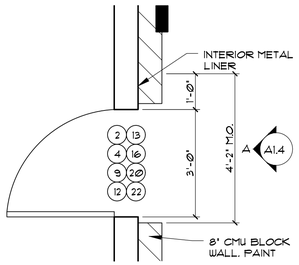
VANDALIA, OHIO 45377

FLOOR PLAN

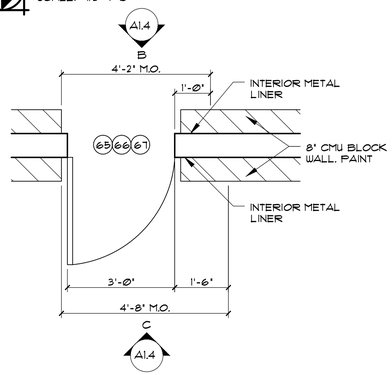
PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A1.3
43 OF 112



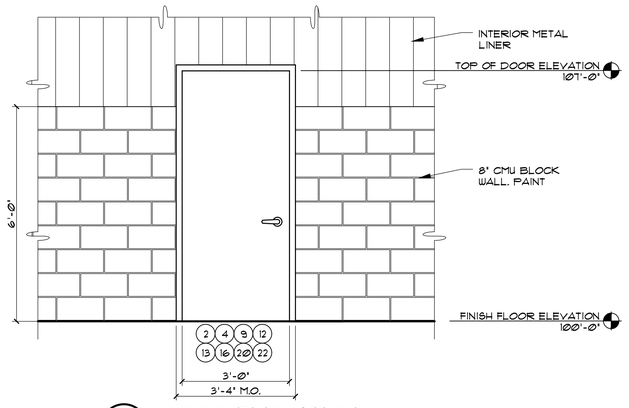
ENLARGED ADA DOOR PLAN

SCALE: 1/2"=1'-Ø"



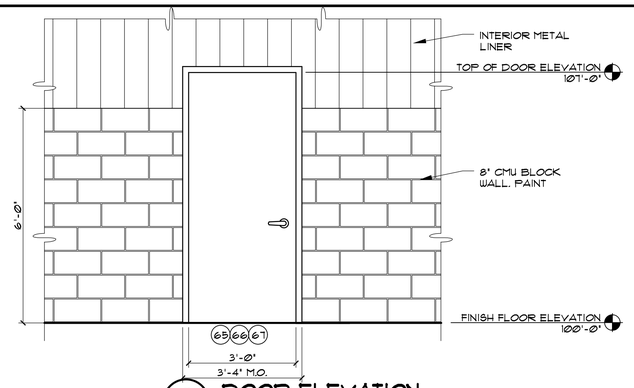
ENLARGED ADA DOOR PLAN

SCALE: 1/2"=1'-Ø"



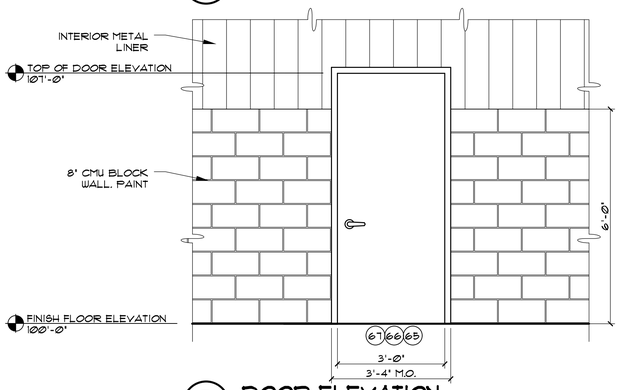
A A1.4 **DOOR ELEVATION**

SCALE: 1/2"=1'-Ø"



C A1.4 **DOOR ELEVATION**

SCALE: 1/2"=1'-Ø"



B A1.4 **DOOR ELEVATION**

SCALE: 1/2"=1'-Ø"

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

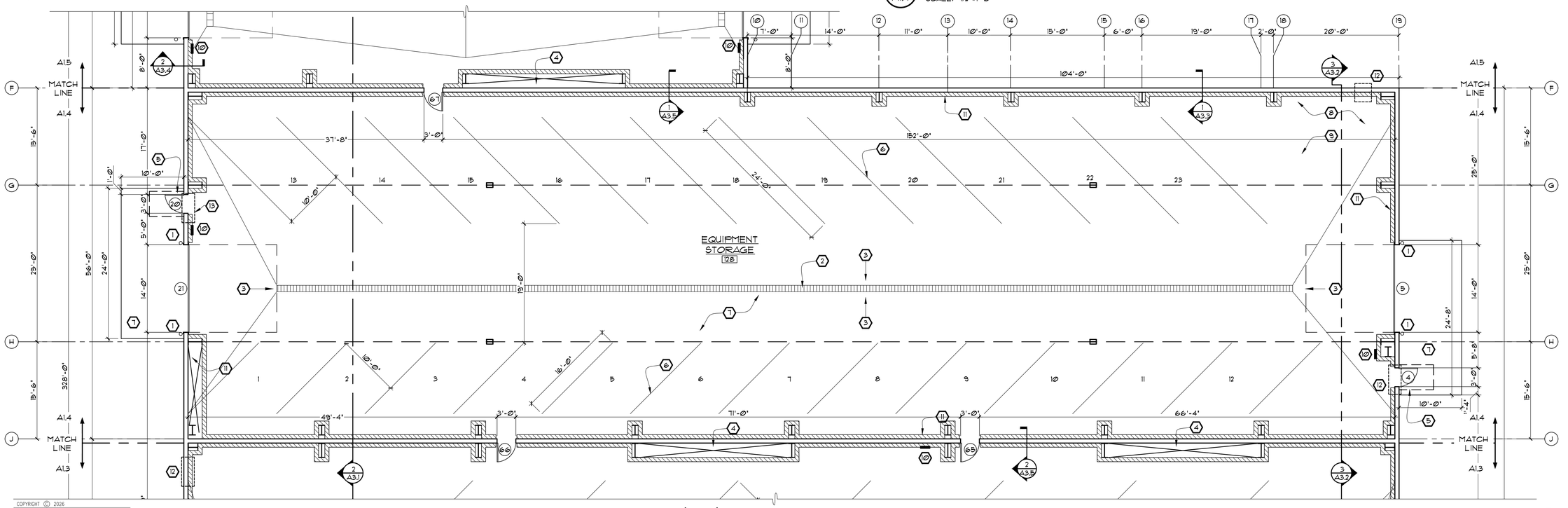
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

1. PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A1.1.
2. GWAL CONTRACTOR TO INSTALL 12" TRENCH DRAINS. PLUMBER SHALL CONNECT TRENCH DRAINS TO OIL INTERCEPTOR, PRIOR TO SANITARY. SEE PLUMBING PLAN. SEE DETAIL 3/A9.1. (1A) (15A)
3. SLOPE CONCRETE FLOOR 1/8" PER FOOT TO TRENCH DRAINS. VERIFY AND RECEIVE APPROVAL OF SLOPE PRIOR TO SLAB POUR.
4. BRACING SUPPORT. SEE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHOP DRAWINGS.
5. AWNING ABOVE. INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE. COORDINATE LOCATION OF LIGHT FIXTURES. (1A) (16A)
6. PARKING STRIP AREA, 3" WIDE LINES. PAINT WHITE.
7. 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S1.3 FOR ADDITIONAL INFORMATION.
8. FIRE RISER, WATER SERVICE, ELECTRICAL SERVICE, DISTRIBUTION PANEL.
9. POTENTIAL WATER ENTRY.
10. FIRE CABINET & FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED. (1A)
11. CONTRACTOR IS RESPONSIBLE FOR 6'-Ø" HIGH 8" BLOCK WALL TO ENCLOSE STRUCTURAL STEEL, COLUMNS, MAINFRAME, END WALL COLUMNS, X-BRACES, AND LOCATIONS OF STEEL SHOWN ON PRE ENGINEERED SHOP DRAWINGS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION ON CONSTRUCTION OF CMU WALL.
12. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
13. INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.



FLOOR PLAN

SCALE: 1/8"=1'-Ø"

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FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
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A1.4
44 OF 112

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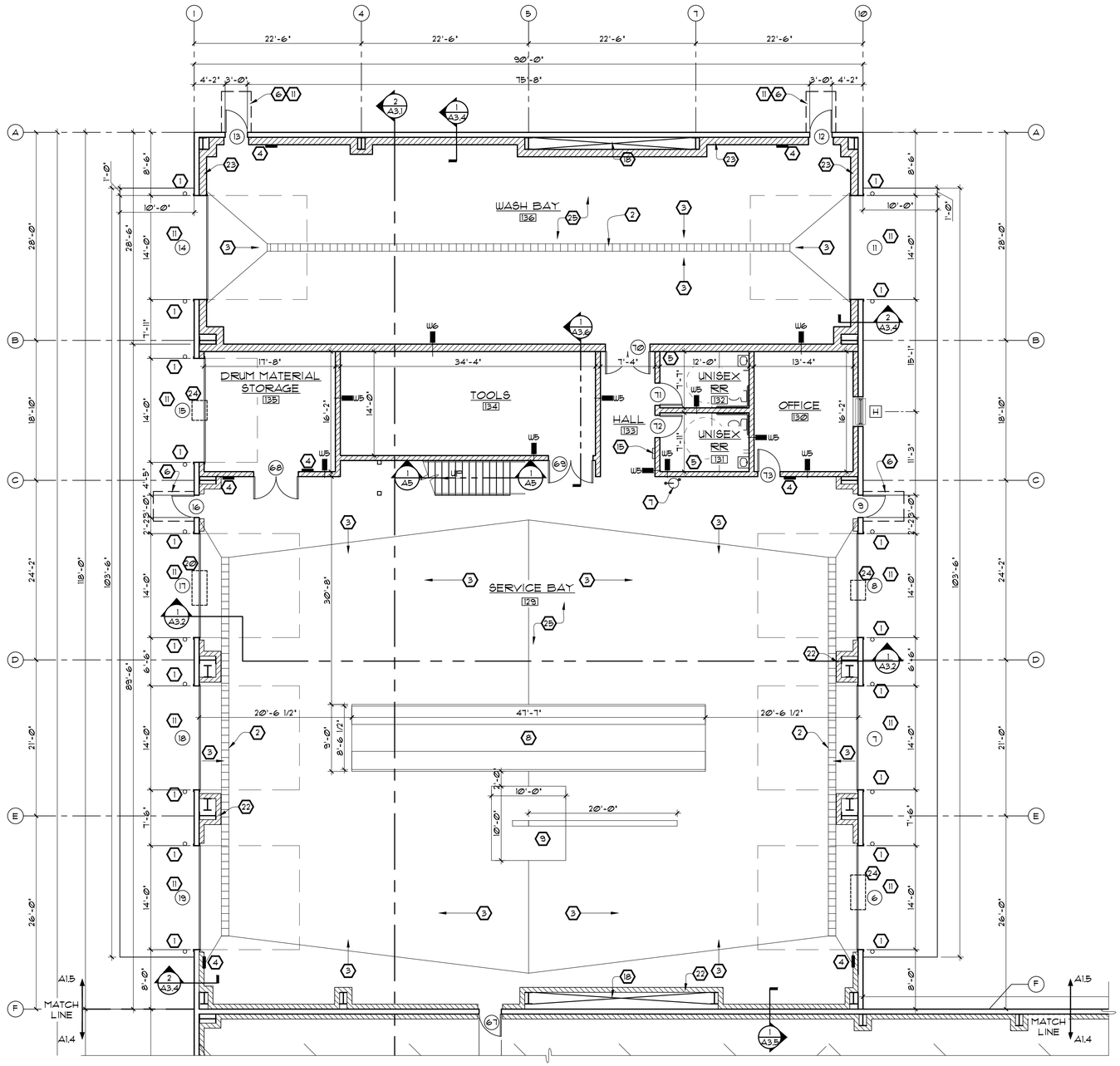
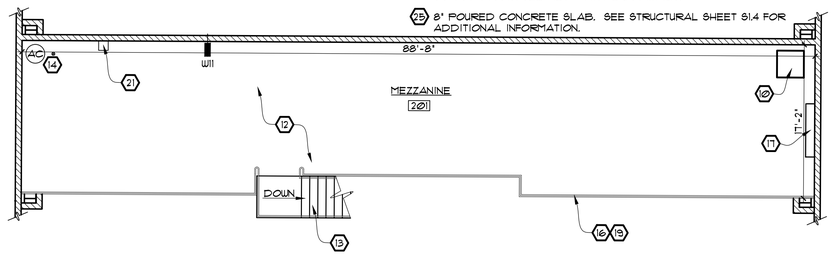


FLOOR PLAN
SCALE: 1/8"=1'-0"



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

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

1. PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A11.
2. GW&L CONTRACTOR TO INSTALL 12" TRENCH DRAINS. PLUMBER SHALL CONNECT TRENCH DRAINS TO OIL INTERCEPTOR, PRIOR TO SANITARY. SEE PLUMBING PLAN. SEE DETAIL 3/A3.1.
3. SLOPE CONCRETE FLOOR 1/8" PER FOOT TO TRENCH DRAINS. VERIFY AND RECEIVE APPROVAL OF SLOPE PRIOR TO SLAB POUR.
4. FIRE CABINET & FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.
5. SEE ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS ON SHEET A6.2.
6. AWNING ABOVE. INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE. COORDINATE LOCATION OF LIGHT FIXTURES.
7. INSTALL EYE WASH STATION AND FLOOR DRAIN PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE A FLAT METAL SURFACE FOR PLUMBER TO INSTALL. SEE PLUMBING PLANS.
8. FLUSH MOUNTED VERTICAL LIFT, WITH FOOTING FOUNDATION & DRAINS IN RECESS. THIS IS **ALTERNATE #2 BASE BID** IS FOR STRUCTURAL REINFORCMENT FOR FUTURE SURFACE MOUNTED LIFT IN THIS LOCATION. COORDINATE SLAB REQUIREMENTS WITH LIFT MANUFACTURER SHOP DRAWINGS, STRUCTURAL & ARCHITECTURAL DRAWINGS.
9. PROVIDE & INSTALL FOOTING, FOUNDATION, AND INSTALLATION OF JIB CRANE. INSTALL PER MANUFACTURER'S SHOP DRAWINGS. **ALTERNATE #3**
10. IT EQUIPMENT (3X3 AREA).
11. CONCRETE APRON, 4" POURED CONCRETE SLAB OVER 4" COMPACTED STONE W/ W1.4 x W1.4 WWM. & VAPOR BARRIER
12. 8" PRECAST CONCRETE HOLLOWCORE PLANKS. SEE S2.1 AND S1.4.
13. SEE SHEET A5 FOR STAIR DETAILS.
14. AIR COMPRESSOR. NEEDS ELECTRIC AND GAS.
15. PROVIDE & INSTALL WATER BOTTLE FILL STATION. SEE PLUMBING PLANS.
16. STEEL RAILING WITH REMOVABLE SECTION. SEE DETAIL 6/A5.
17. DATA & IT BOARD.
18. BRACING SUPPORT. SEE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHOP DRAWINGS.
19. PROVED A LOAD CAPACITY SIGN FOR MEZZANINE STORAGE.
20. INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
21. PROVIDE & INSTALL PRESSURE WASHER. SEE PLUMBING PLANS.
22. CONTRACTOR IS RESPONSIBLE FOR 8'-0" HIGH 8" BLOCK WALL TO ENCLOSE STRUCTURAL STEEL COLUMNS, MAINFRAME, END WALL COLUMNS, X-BRACES, AND LOCATIONS OF STEEL SHOWN ON PRE ENGINEERED SHOP DRAWINGS. SEE STRUCTURAL FOR ADDITIONAL INFORMATION ON CONSTRUCTION OF CMU WALL.
23. CONTRACTOR IS RESPONSIBLE FOR 12" BLOCK WALL LEADING UP TO DECK TO ENCLOSE STRUCTURAL STEEL COLUMNS, MAINFRAME, END WALL COLUMNS, X-BRACES, AND LOCATIONS OF STEEL SHOWN ON PRE ENGINEERED SHOP DRAWINGS.
24. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
25. 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S1.4 FOR ADDITIONAL INFORMATION.

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A1.5
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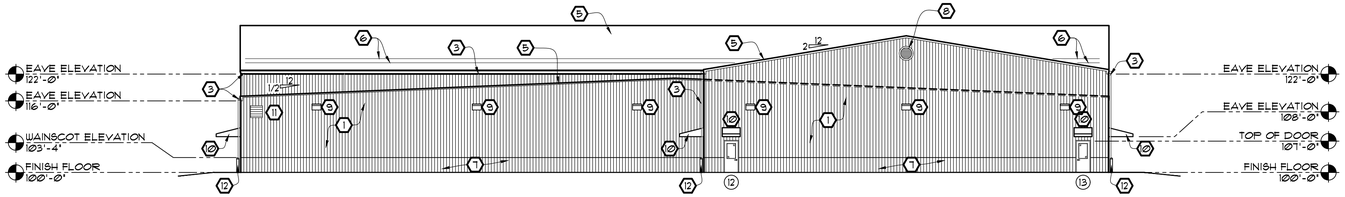
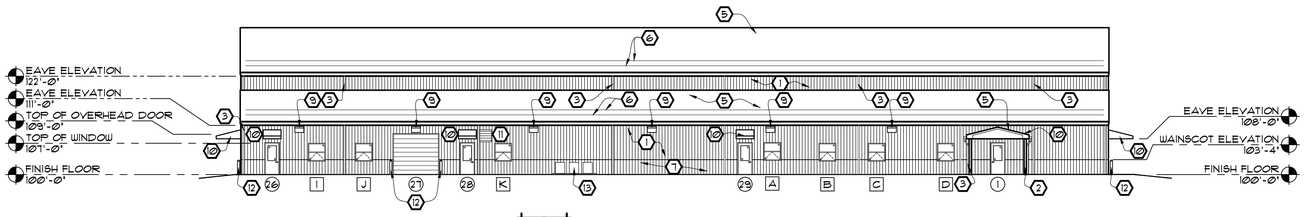
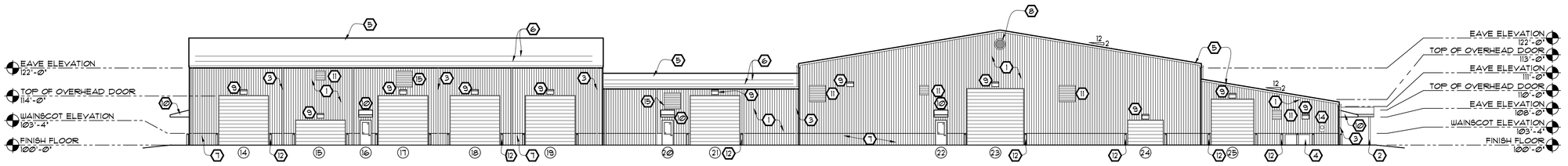


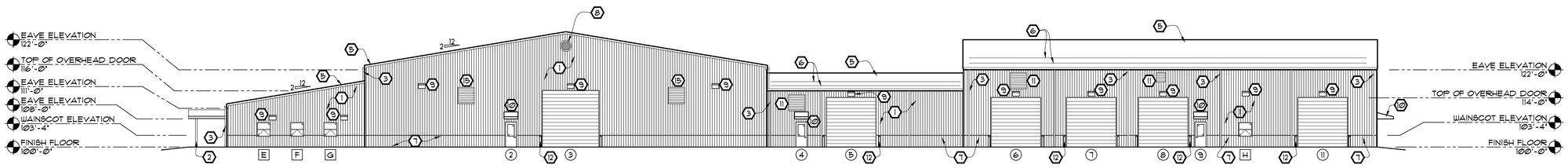
1 A2 **SOUTH ELEVATION**
SCALE: 1/16"=1'-0"



2 A2 **NORTH ELEVATION**
SCALE: 1/16"=1'-0"



3 A2 **EAST ELEVATION**
SCALE: 1/16"=1'-0"



4 A2 **WEST ELEVATION**
SCALE: 1/16"=1'-0"

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C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

D. WINDOWS ARE TO BE INSTALLED ABOVE METAL/MASONRY WAINSCOT TO ENSURE A CONTINUOUS HORIZONTAL METAL FLASHING.

CODED NOTES:

1. BUTLER SHADOWALL SYSTEM WITH FLUROPOLYMER COATING **-BASE BID**, 3" BUTLER THERMAWALL SYSTEM **-ALTERNATE #1**.
2. 6"x6" STRUCTURAL COLUMN. FRAME COLUMN TO BE SQUARE. WRAP WITH METAL.
3. 6" CONTINUOUS ALUMINUM GUTTERS & DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
4. (16A) GENERATOR. PROVIDE 12" THICK CONCRETE SLAB AS RECOMMENDED BY MANUFACTURER. COORDINATE LOCATION WITH ALL CONTRACTORS.
5. STANDING SEAM METAL ROOF BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. COLOR SELECTED BY ARCHITECT. BUTLER MR-24 ROOF SYSTEM WITH INSULATION SYSTEM.
6. CONTINUOUS METAL SNOW/ICE GUARD AT SPECIFIED LOCATIONS.
7. INSTALL STEEL WAINSCOT SIDING. COLOR TO BE CHOSEN BY OWNER.
8. INSTALL DECORATIVE LOUVER.
9. (16A) EXTERIOR BUILDING LIGHTING. LOCATION BY ARCHITECT. SEE SHEET ELECTRICAL DRAWINGS.
10. PROVIDE AWNING OVER ENTRY. INCLUDE ALUMINUM SOFFIT UNDER STRUCTURE. COLOR CHOSEN BY ARCHITECT.
11. (15B) (16A) EXHAUST FAN. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL PLANS.
12. PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A11.
13. (15B) (16A) MECHANICAL UNIT. INSTALL ON 4" CONCRETE PAD ISOLATED FROM ADJACENT SLAB. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR. GWAL SHALL PROVIDE CONCRETE PAD.
14. CT CABINET, METER BASE & TRANSFER SWITCH. COORDINATE WITH UTILITY COMPANY.
15. (15B) (16A) INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.

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EXTERIOR ELEVATIONS

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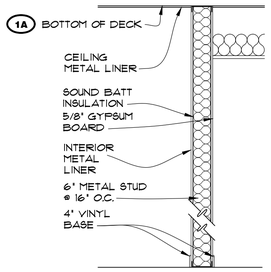

W1 WALL DETAIL
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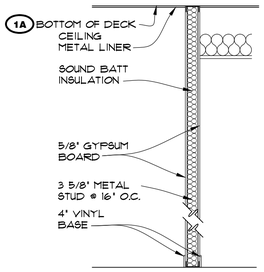

W2 WALL DETAIL
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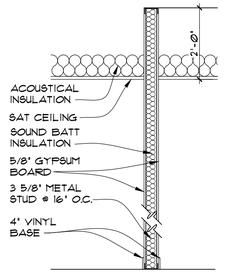

W3 WALL DETAIL
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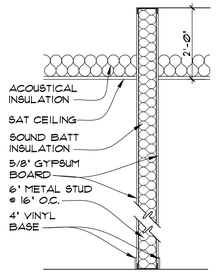

W4 WALL DETAIL
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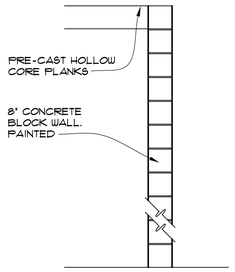

W5 WALL DETAIL
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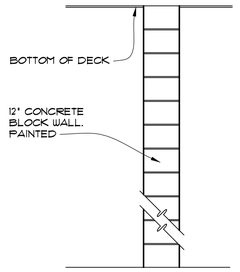
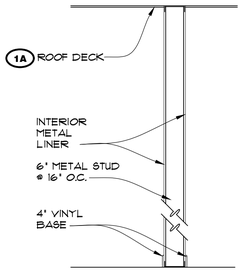


W6 WALL DETAIL
SCALE: 1/2"=1'-0"



W7 WALL DETAIL
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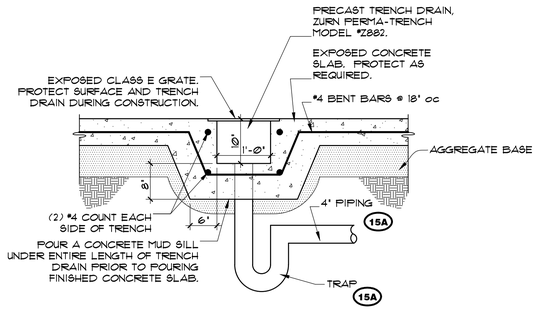

3/A3.1 TRENCH DRAIN DETAIL
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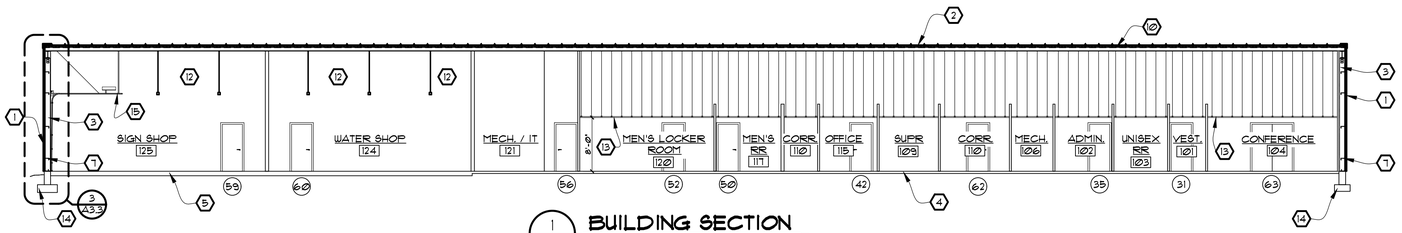

1/A3.1 BUILDING SECTION
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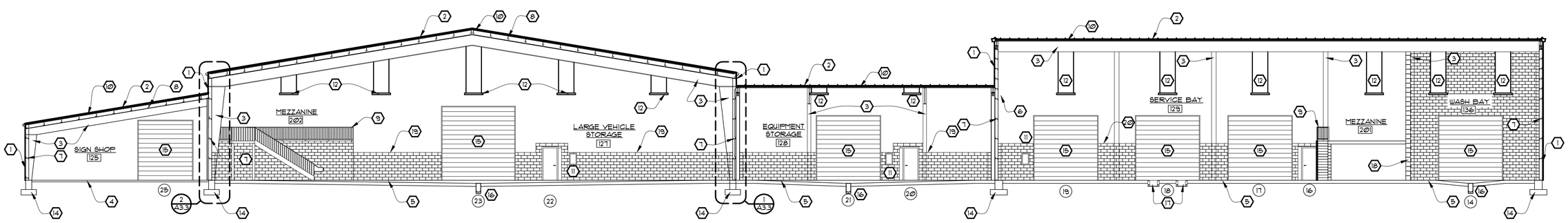

2/A3.1 BUILDING SECTION
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C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

1. BUTLER SHADOWALL SYSTEM WITH FLUROPOLYMER COATING -**BASE BID**. 3' BUTLER THERMAWALL SYSTEM -**ALTERNATE #1**, SIDING TO BE ATTACHED TO GIRTS. COLOR TO BE CHOSEN BY ARCHITECT.
2. INSTALL PRE-ENGINEERED METAL BUILDING STANDING SEAM METAL ROOF. COLOR TO BE CHOSEN BY ARCHITECT.
3. STEEL FRAME BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS TO BE SUBMITTED TO LOCAL BUILDING DEPARTMENT FOR REVIEW. PAINT ALL EXPOSED STEEL. COLOR CHOSEN BY OWNER.
4. 4" POURED CONCRETE SLAB W/ W1.4 x W1.4 WWM. OVER 4" COMPACTED GRANULAR BASE, & 6 MIL VAPOR BARRIER.
5. 8" POURED CONCRETE SLAB W/ #4 BARS AT 18" O.C. EACH WAY, OVER 8" COMPACTED GRANULAR BASE & 6 MIL VAPOR BARRIER.
6. 8" CMU WALL. PAINT. SEE DETAILS 1/A3.4 & 1/A3.5.
7. INSTALL PRE-ENGINEERED METAL BUILDING SIDEWALL GIRTS. SEE SHOP DRAWINGS FOR DETAILS. PAINT ALL EXPOSED STEEL. COLOR CHOSEN BY OWNER.
8. INSTALL PRE-ENGINEERED METAL BUILDING ROOF PURLINS. SEE SHOP DRAWINGS FOR DETAILS. PAINT ALL EXPOSED STEEL. COLOR CHOSEN BY OWNER.
9. STEEL RAILING WITH REMOVABLE SECTION. SEE A5 FOR DETAILS.
10. BUTLER MR-24 ROOF SYSTEM WITH INSULATION SYSTEM.
11. FIRE CABINET AND FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.
12. (16A) PROVIDE & INSTALL CEILING HUNG LIGHTS. SEE ELECTRICAL DRAWINGS.
13. SUSPENDED ACOUSTICAL CEILING. SEE ROOM FINISH SCHEDULE ON SHEET A8.2.
14. POURED CONCRETE FOOTER. SEE STRUCTURAL DRAWINGS FOR DETAILS.
15. (8A) PROVIDE & INSTALL OVERHEAD DOOR. SEE DETAIL C/A8.1.
16. (1A) (15A) GW&L CONTRACTOR SHALL PROVIDE & INSTALL 12" TRENCH DRAIN. PLUMBER SHALL CONNECT TRENCH DRAIN TO NEW OIL INTERCEPTOR. SEE DETAIL 3/A3.1.
17. (16A) (15A) FLUSH MOUNTED VERTICAL LIFT, WITH FOOTING FOUNDATION & DRAINS IN RECESS. - **ALTERNATE #2** - COORDINATE SLAB REQUIREMENTS WITH LIFT MANUFACTURER & ARCH DWGS.
18. 12" CMU WALL. PAINT BOTH SIDES. SEE DETAILS 1/A3.6.
19. 8" CMU WALL. PAINT EXPOSED SIDES. 6'-0" HIGH
20. 8" CMU WALL. PAINT EXPOSED SIDES. 8'-0" HIGH

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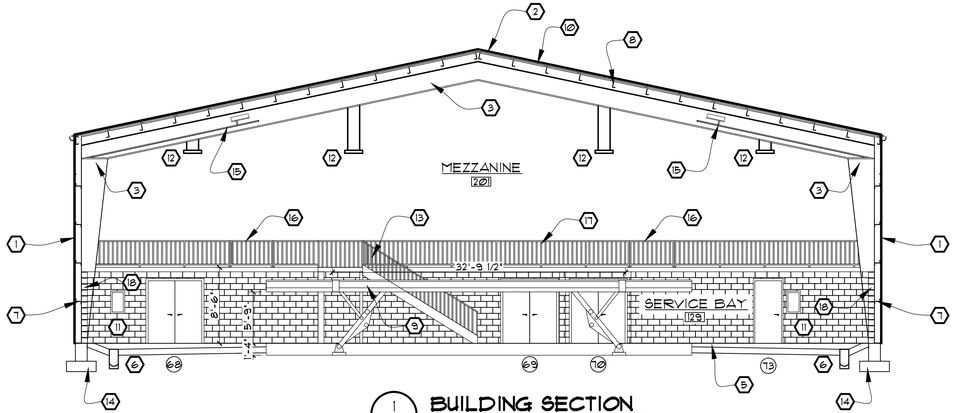
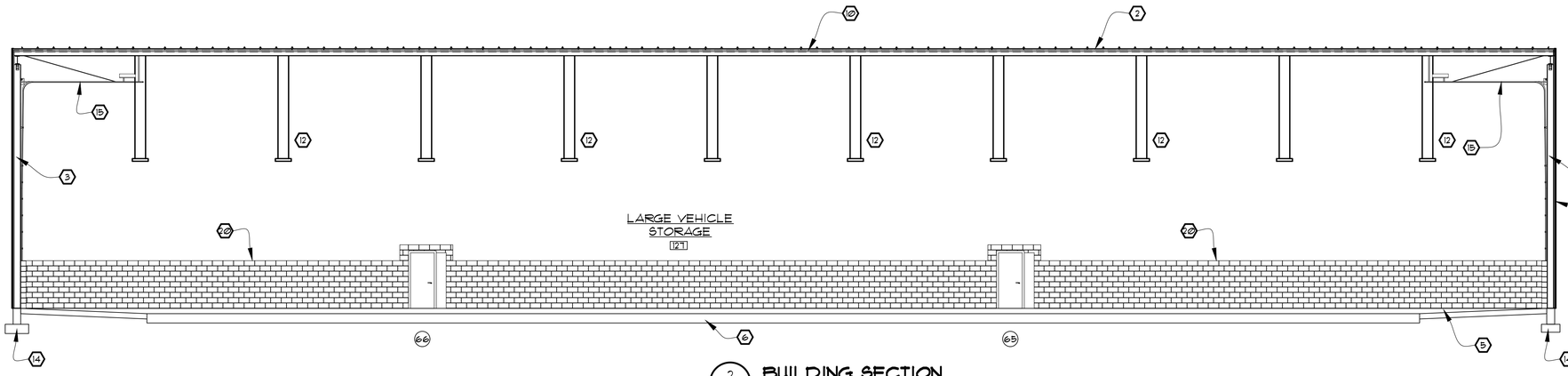
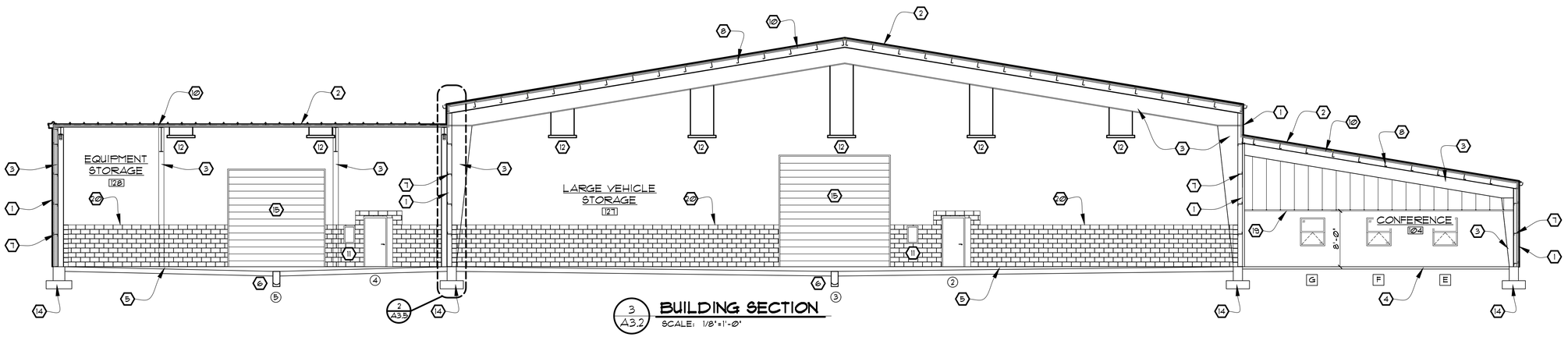


1 A3.2 **BUILDING SECTION**
SCALE: 1/8"=1'-0"



2 A3.2 **BUILDING SECTION**
SCALE: 1/8"=1'-0"



3 A3.2 **BUILDING SECTION**
SCALE: 1/8"=1'-0"

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GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

CODED NOTES:

1. BUTLER SHADOWALL SYSTEM WITH FLUROPOLYMER COATING -**BASE BID**. 3" BUTLER THERMAWALL SYSTEM -**ALTERNATE #1**, SIDING TO BE ATTACHED TO GIRTS. COLOR TO BE CHOSEN BY ARCHITECT.
2. INSTALL STANDING SEAM METAL ROOF. COLOR TO BE CHOSEN BY ARCHITECT.
3. STEEL FRAME BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS TO BE SUBMITTED TO LOCAL BUILDING DEPARTMENT FOR REVIEW PRIOR TO ERECTING BDG. PAINT ALL EXPOSED STEEL. COLOR CHOSEN BY OWNER.
4. 4" POURED CONCRETE SLAB W/ W1.4 x W1.4 WWM. OVER 4" COMPACTED GRANULAR BASE, & 6 MIL VAPOR BARRIER.
5. 8" POURED CONCRETE SLAB W/ #4 BARS AT 18" O.C. EACH WAY, OVER 8" COMPACTED GRANULAR BASE & 6 MIL VAPOR BARRIER.
6. GW&L CONTRACTOR SHALL PROVIDE & INSTALL 12" TRENCH DRAIN. PLUMBER SHALL CONNECT TRENCH DRAIN TO NEW OIL INTERCEPTOR. SEE DETAIL 3/A3.1.
7. INSTALL PRE-ENGINEERED METAL BUILDING SIDEWALL GIRTS. SEE SHOP DRAWINGS FOR DETAILS. PAINT ALL EXPOSED STEEL. COLOR CHOSEN BY OWNER.
8. INSTALL PRE-ENGINEERED METAL BUILDING ROOF PURLINS. SEE SHOP DRAWINGS FOR DETAILS. PAINT ALL EXPOSED STEEL. COLOR CHOSEN BY OWNER.
5. RECESSED VERTICAL LIFT, WITH FOOTING FOUNDATION & DRAINS IN RECESS. **ALTERNATE #2**
10. BUTLER MR-24 ROOF SYSTEM WITH INSULATION SYSTEM.
11. FIRE CABINET AND FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.
12. PROVIDE & INSTALL CEILING HUNG LIGHTS. SEE ELECTRICAL DRAWINGS.
13. STAIRS. SEE DETAIL 1/A5.
14. POURED CONCRETE FOOTER. SEE STRUCTURAL DRAWINGS FOR DETAILS.
15. PROVIDE & INSTALL OVERHEAD DOOR. SEE DETAIL C/A8.1.
16. REMOVABLE RAIL. SEE DETAIL 6/A5.
17. RAILING. SEE DETAIL 4/A5.
18. 8" CMU WALL. PAINT EXPOSED SIDES. 8' HIGH.
19. SUSPENDED ACOUSTICAL CEILING. SEE ROOM FINISH SCHEDULE ON SHEET A8.2.
20. 8" CMU WALL. PAINT EXPOSED SIDES. 6' HIGH.

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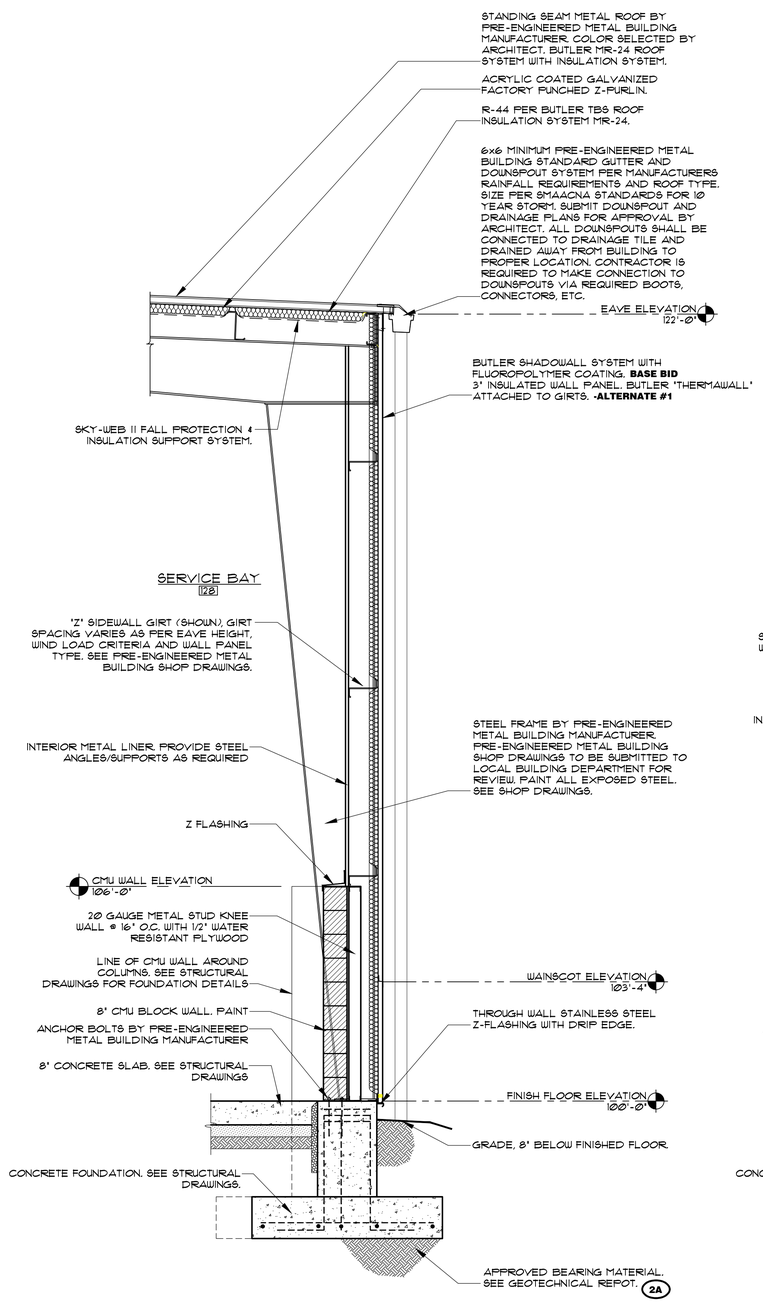
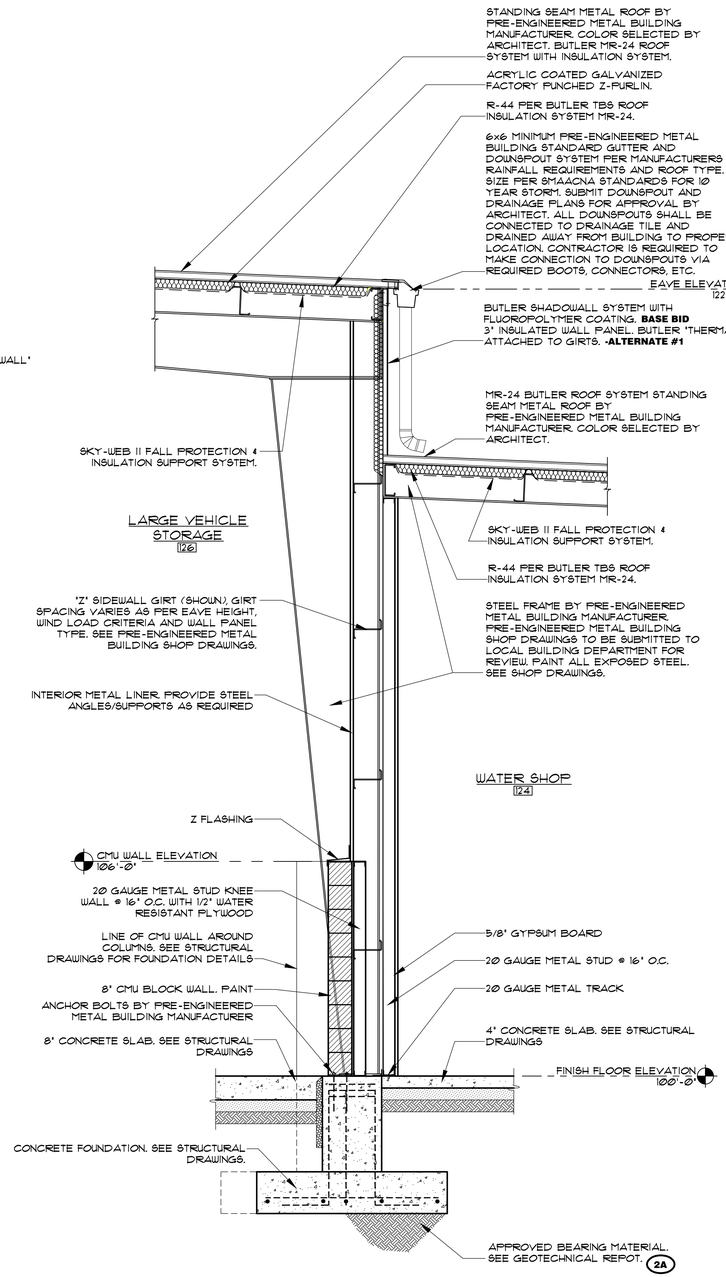
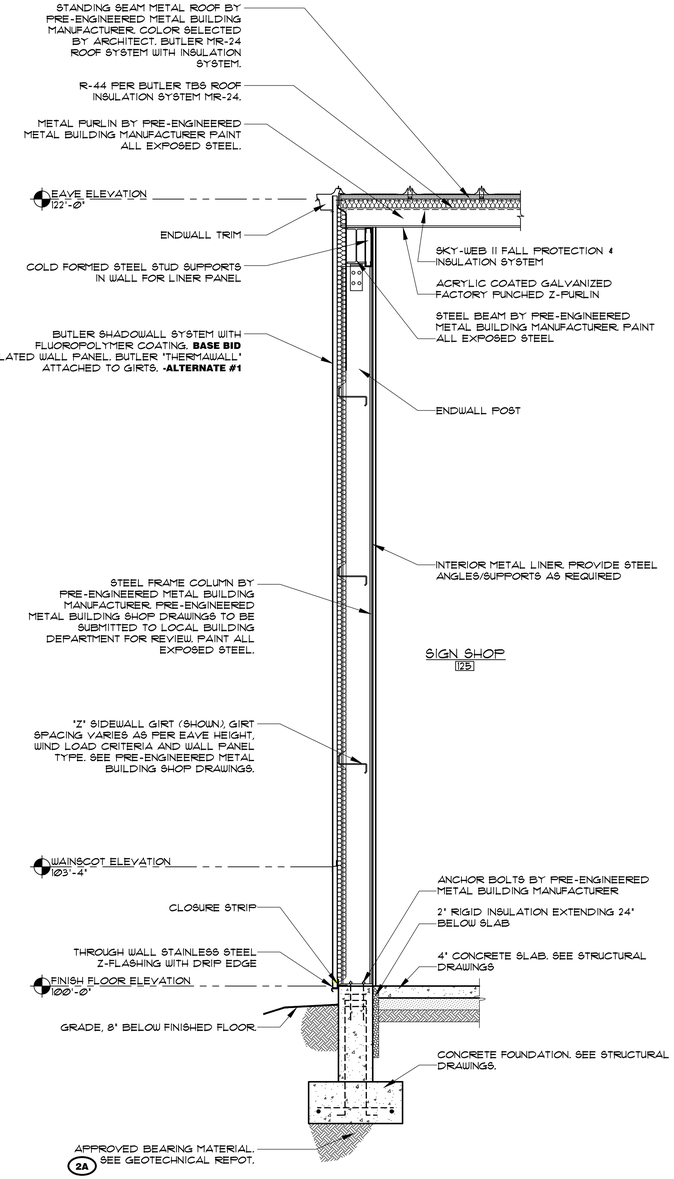
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.



1 A3.3 **EQUIPMENT STORAGE SIDEWALL SECTION**
SCALE: 1/2"=1'-0"



2 A3.3 **LARGE VEHICLE STORAGE SIDEWALL SECTION**
SCALE: 1/2"=1'-0"



3 A3.3 **SIGN SHOP END WALL SECTION**
SCALE: 1/2"=1'-0"

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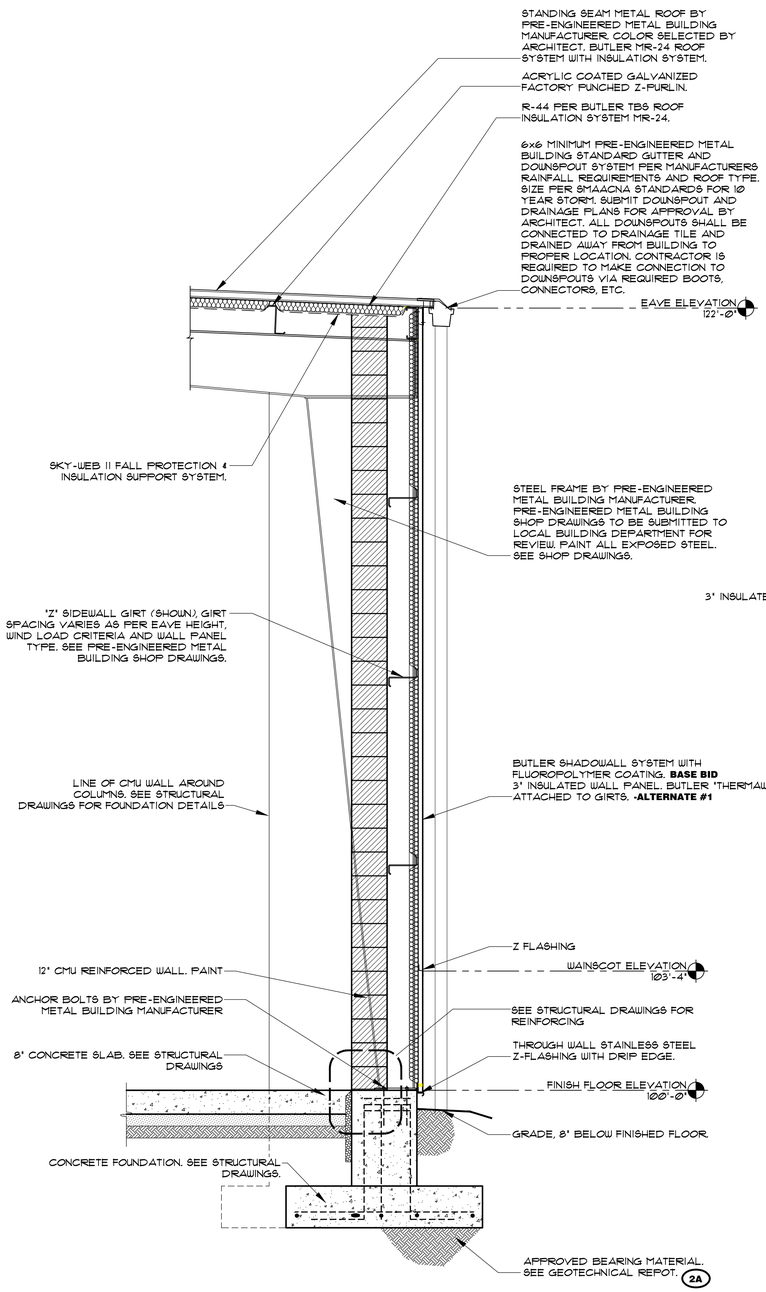
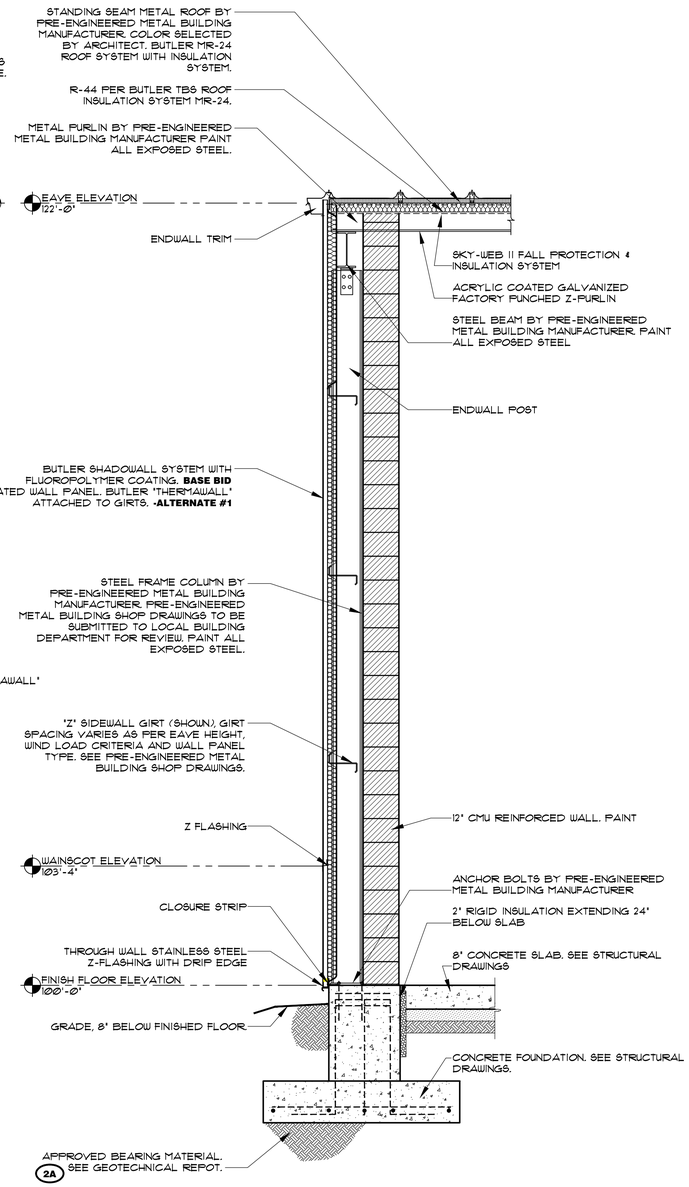
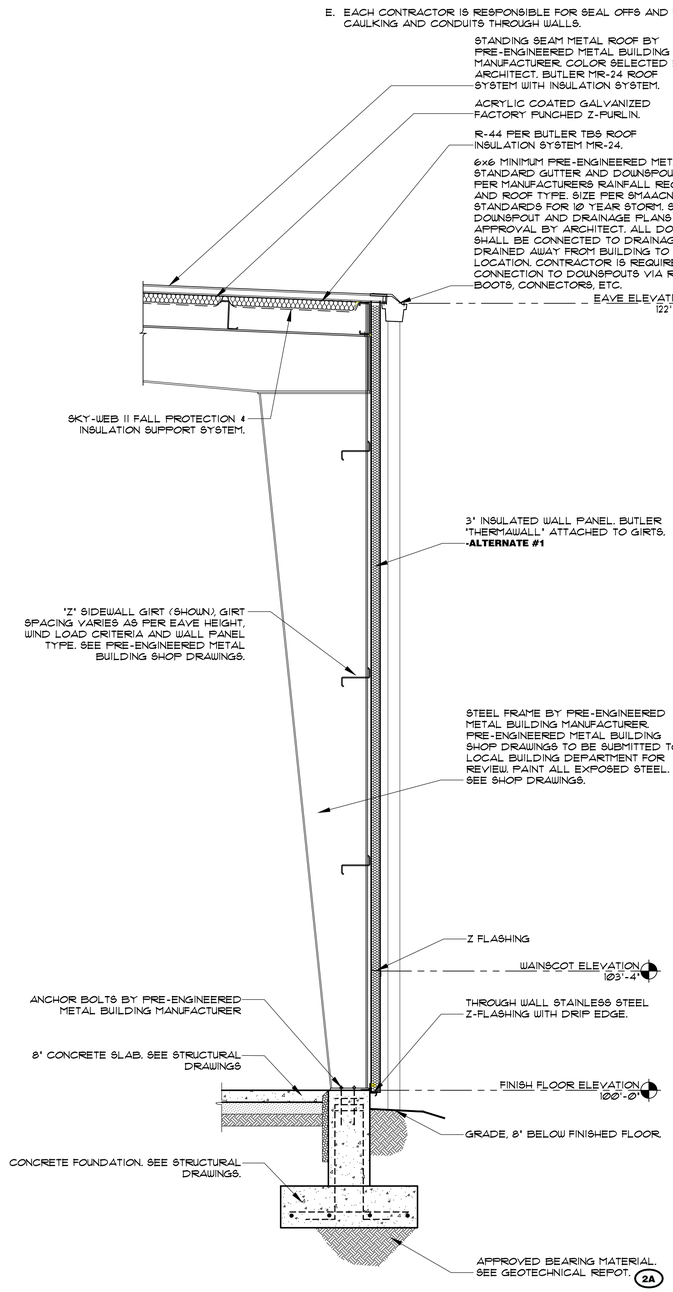


1 A3.4 **WASH BAY SIDEWALL SECTION**
SCALE: 1/2"=1'-0"



2 A3.4 **WASH BAY ENDWALL SECTION**
SCALE: 1/2"=1'-0"



3 A3.4 **TYPICAL WALL SECTION**
SCALE: 1/2"=1'-0" **ALTERNATE #1**

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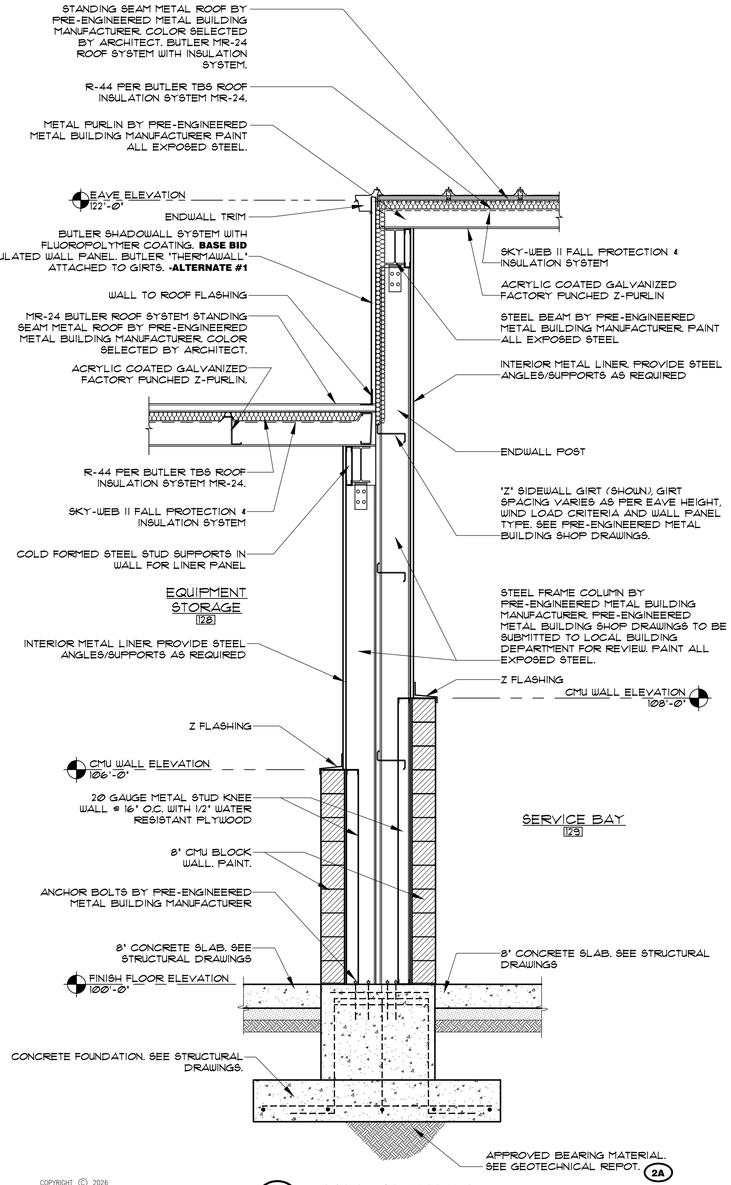
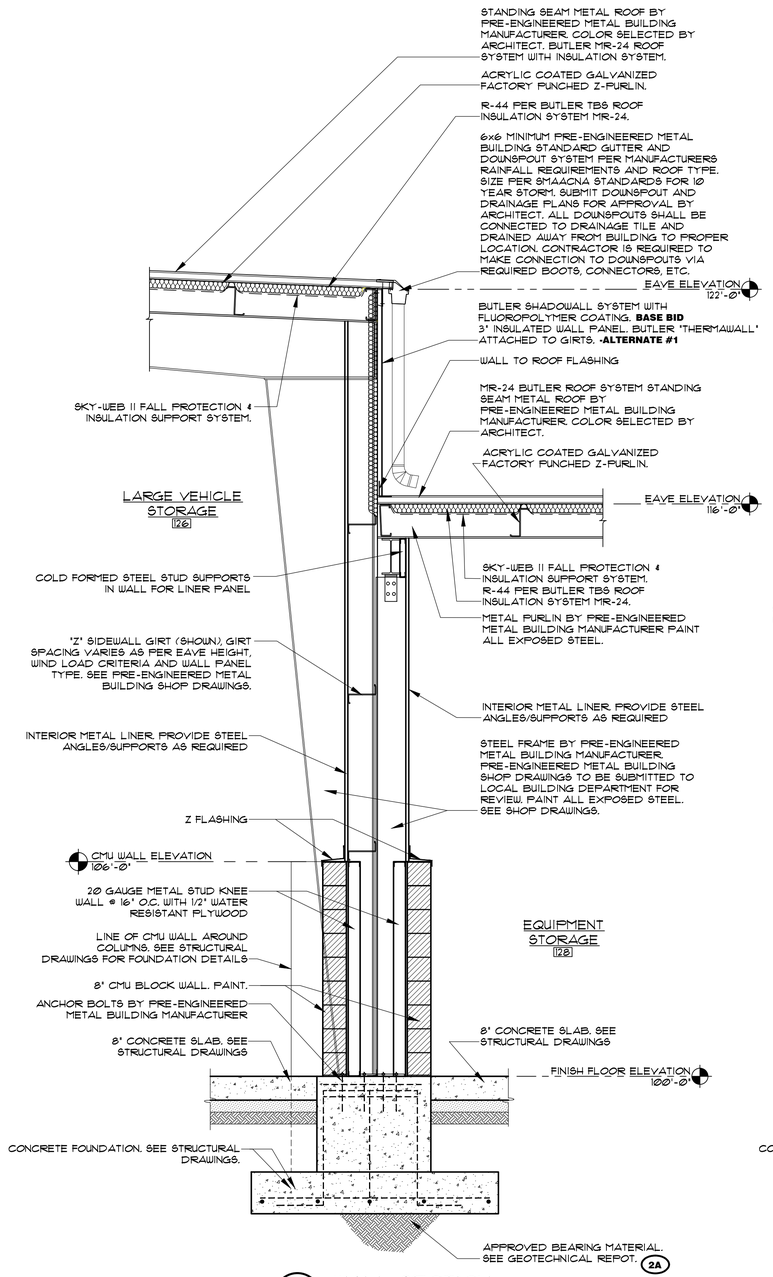


1 A3.5 WALL SECTION
SCALE: 1/2"=1'-Ø"



2 A3.5 WALL SECTION
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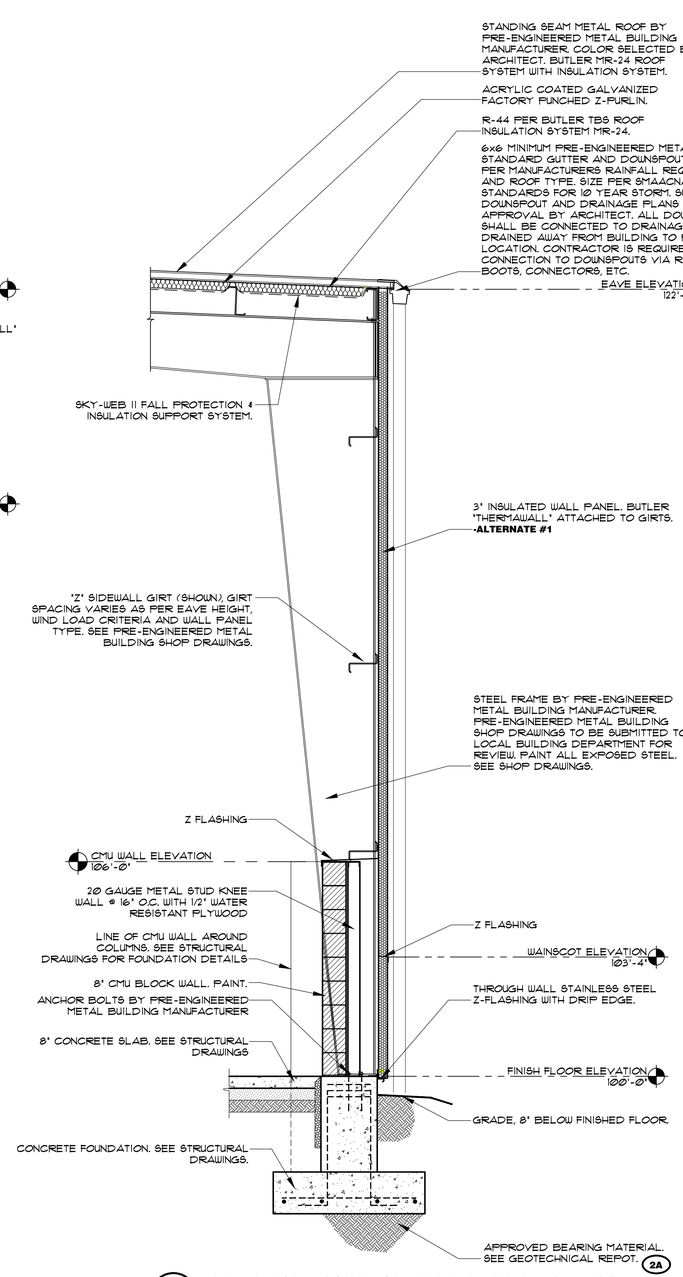

3 A3.5 TYPICAL WALL SECTION WITH BLOCK
SCALE: 1/2"=1'-Ø"
ALTERNATE #1

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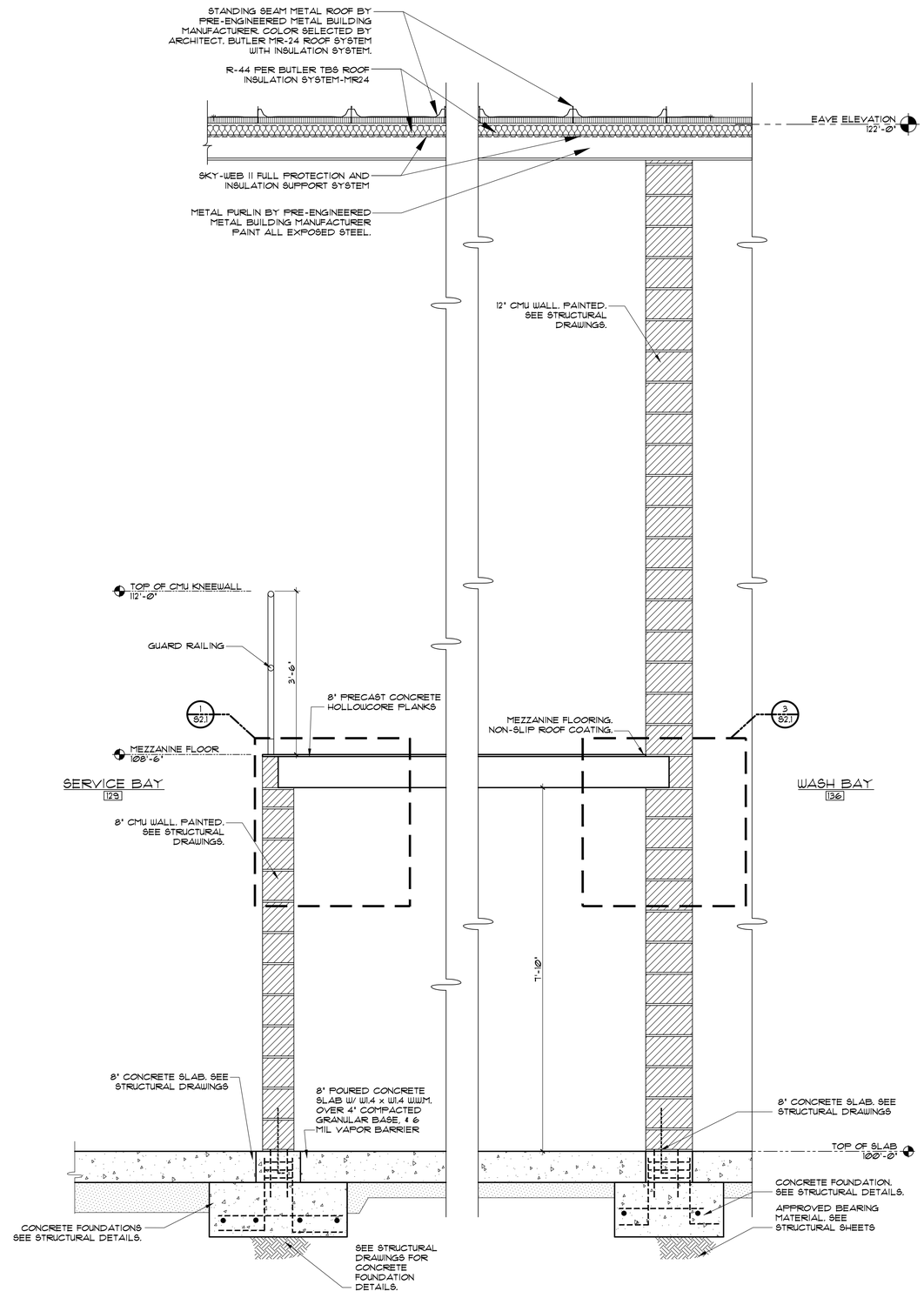

1 / A3.6 **MEZZANINE WALL SECTIONS**
SCALE: 3/4"=1'-0"

GENERAL NOTES:

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C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS

E. EACH CONTRACTOR IS RESPONSIBLE FOR SEAL OFFS AND FIRE CAULKING AND CONDUITS THROUGH WALLS.

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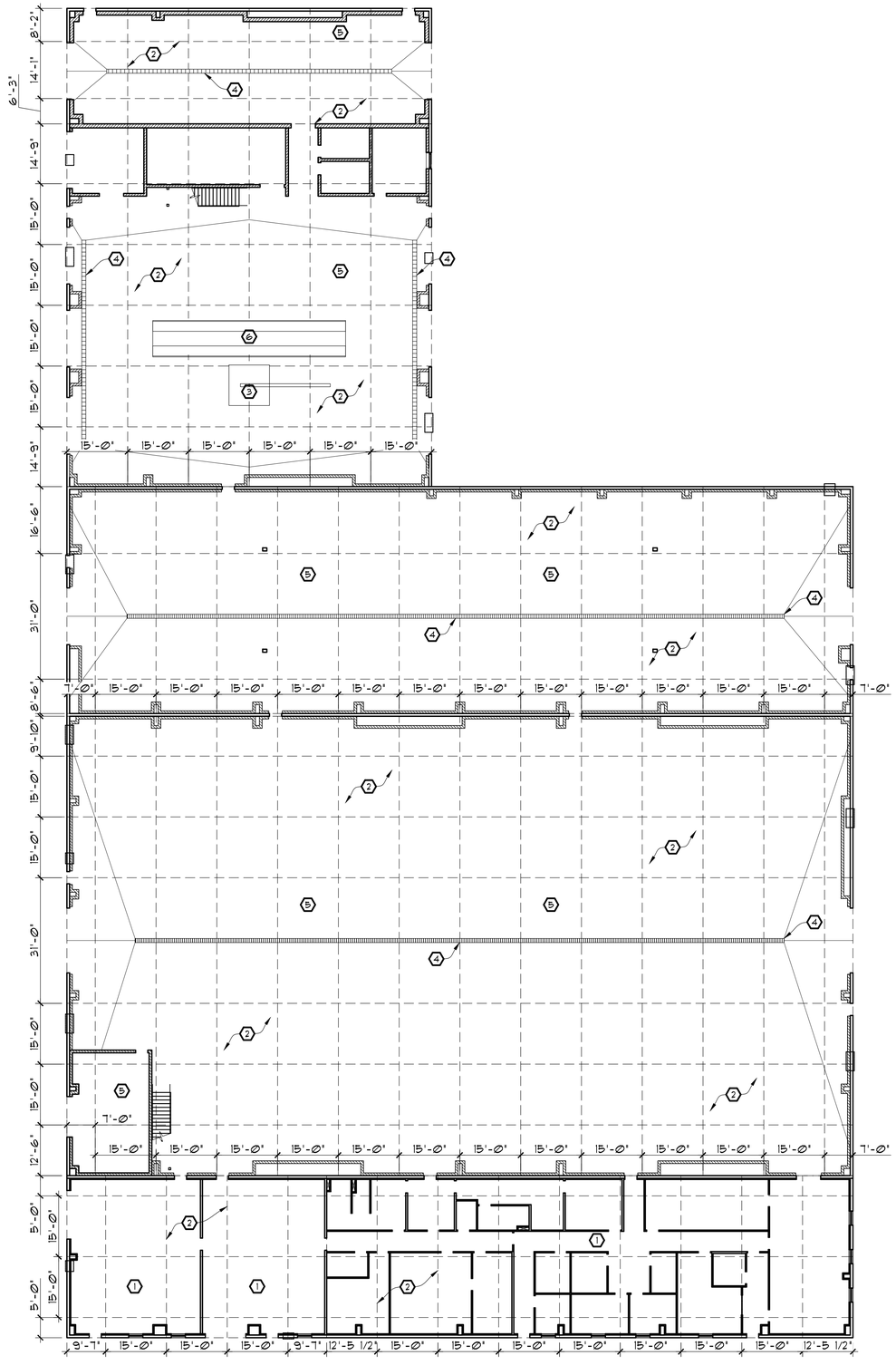

CONCRETE SAW CUT PLAN

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

GENERAL NOTES:

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C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW/L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

F. CONTRACTOR TO PROVIDE ALL SURFACE PREPARATION AND MOISTURE VERIFICATIONS AND FINISHES TO CONCRETE FOR APPLICATION AND INSTALLATION OF FINISHED FLOOR SURFACES ACCORDING TO MANUFACTURER SPECIFICATIONS OVER INSTALLATION INSTRUCTIONS TO ENSURE WARRANTY FROM MANUFACTURER IS IN PLACE FOR THE OWNER FOLLOWING THE COMPLETION OF THE WORK.

CODED NOTES:

1. 4" POURED CONCRETE SLAB W/ W1.4 x W1.4 WWM. OVER 4" COMPACTED GRANULAR BASE, & 6 MIL VAPOR BARRIER.
2. ALL SAW CUTS SHALL BE REVIEWED AND APPROVED WITH ARCHITECT AND OWNER PRIOR TO THE DAY OF THE POUR.
3. PROVIDE & INSTALL FOOTING, FOUNDATION, AND INSTALLATION OF JIB CRANE. INSTALL PER MANUFACTURER'S SHOP DRAWINGS. **ALTERNATE #3**
4. HAND TROWEL & EDGE EACH SIDE OF THE TRENCH DRAIN. PROTECT GRATES PERMANENTLY THROUGHOUT CONSTRUCTION WITH TEMPORARILY MEANS OF PROTECTION.
5. 8" POURED CONCRETE SLAB W/ W1.4 x W1.4 WWM. OVER 4" COMPACTED GRANULAR BASE, & 6 MIL VAPOR BARRIER.
6. FLUSH MOUNTED VERTICAL LIFT, WITH FOOTING FOUNDATION & DRAINS IN RECESS.**ALTERNATE #2. BASE BID** IS FOR STRUCTURAL REINFORCEMENT FOR FUTURE SURFACE MOUNTED LIFT IN THIS LOCATION.

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SAW CUT PLAN

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REFLECTED CEILING SYMBOLS

	2'x4' LED RECESSED TROFFER
NL	2'x4' LED NITE LIGHT FIXTURE
E	EXTERIOR RECESSED LIGHTS
I	INTERIOR RECESSED LIGHTS
S	4' LED STRIP, SURFACE MOUNTED FIXTURE
H	4' LED STRIP, HANGING FROM STRUCTURE
NL	4' LED STRIP NITE LIGHT FIXTURE, HANGING FROM STRUCTURE
	EXTERIOR LIGHT
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
16A	LIGHT FIXTURE INFORMATION IS PROVIDED ON LIGHTING PLAN

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C. ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED USING HANGER WIRES OR OTHER SUPPORT METHODS. DEVICES SHALL NOT BE SUPPORTED BY CEILING GRID OR CEILING TILES.

D. UNLESS OTHERWISE NOTED, CEILINGS ARE TO BE CENTERED IN EACH ROOM IN BOTH DIRECTIONS, EITHER WITH THE GRID CENTERED OR CEILING TILE CENTERED.

E. ALL ROOMS WITHOUT SUSPENDED CEILING SHALL HAVE THE UNDER SIDE OF FLOOR DECKING, BAR JOISTS, STRUCTURE, ETC. PAINTED WHITE.

F. ALL ELEVATIONS SHOWN ARE FROM TOP OF FINISHED FLOOR.

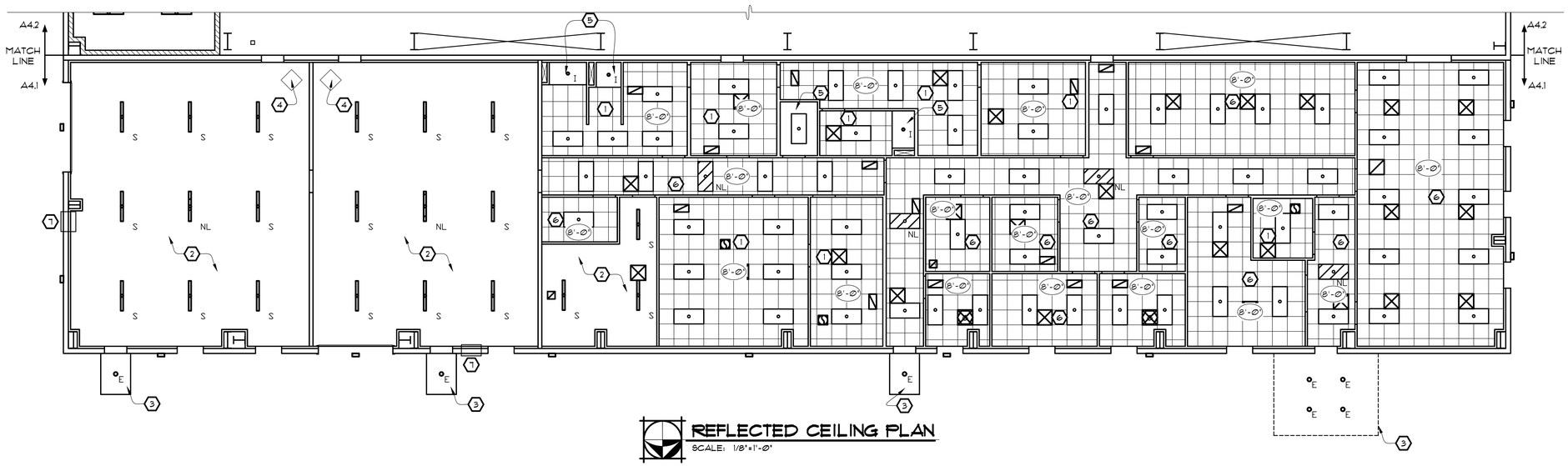
G. SUSPENDED CEILING SYSTEMS SHALL NOT BE USED AS WALL OR PARTITION BRACING ELEMENTS.

H. COORDINATE AND REVIEW ALL PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT, FIXTURES & DEVICES.

I. SEE ROOM FINISH SCHEDULE FOR FINISHES.

CODED NOTES:

1. INSTALL 2'x2' MOISTURE/SAG RESISTANT CEILING TILE.
2. OPEN CEILING STRUCTURE.
3. INSTALL ALUMINUM SOFFIT, WITH FLAT PROFILE. COORDINATE LOCATION OF RECESSED LIGHT FIXTURE.
4. HEATER UNIT.
5. INSTALL FRAMING & MOISTURE RESISTANT GYPSUM BOARD CEILING.
6. INSTALL CEILING TILE & GRID.
7. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
8. INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.



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

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

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A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
800 NORTHWOODS BLVD
VANDALIA, OHIO 45377

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DATE: 05/18/2026
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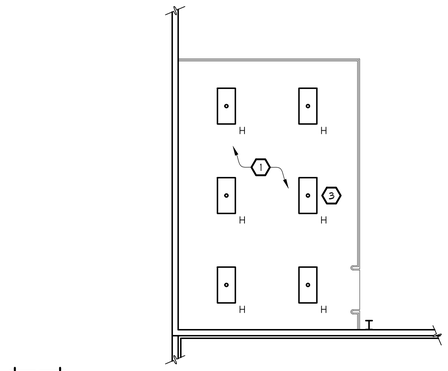
54 OF 112



MEZZANINE REFLECTED CEILING PLAN

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

REFLECTED CEILING SYMBOLS

H	2'x4' LED FIXTURE, HANGING FROM STRUCTURE
NL	2'x4' LED NITE LIGHT FIXTURE, HANGING FROM STRUCTURE
E	EXTERIOR RECESSED LIGHTS
H	4' LED STRIP, HANGING FROM STRUCTURE
	EXTERIOR LIGHT
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER

16A LIGHT FIXTURE INFORMATION IS PROVIDED ON LIGHTING PLAN

CODED NOTES:

1. OPEN CEILING STRUCTURE.
16A 2. INSTALL ALUMINUM SOFFIT, WITH FLAT PROFILE. COORDINATE LOCATION OF RECESSED LIGHT FIXTURE.
16A 3. INSTALL LIGHT FIXTURES. SEE ELECTRICAL PLAN.
15B 16A 4. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
15B 16A 5. INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

C. ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED USING HANGER WIRES OR OTHER SUPPORT METHODS. DEVICES SHALL NOT BE SUPPORTED BY CEILING GRID OR CEILING TILES.

D. UNLESS OTHERWISE NOTED, CEILINGS ARE TO BE CENTERED IN EACH ROOM IN BOTH DIRECTIONS, EITHER WITH THE GRID CENTERED OR CEILING TILE CENTERED.

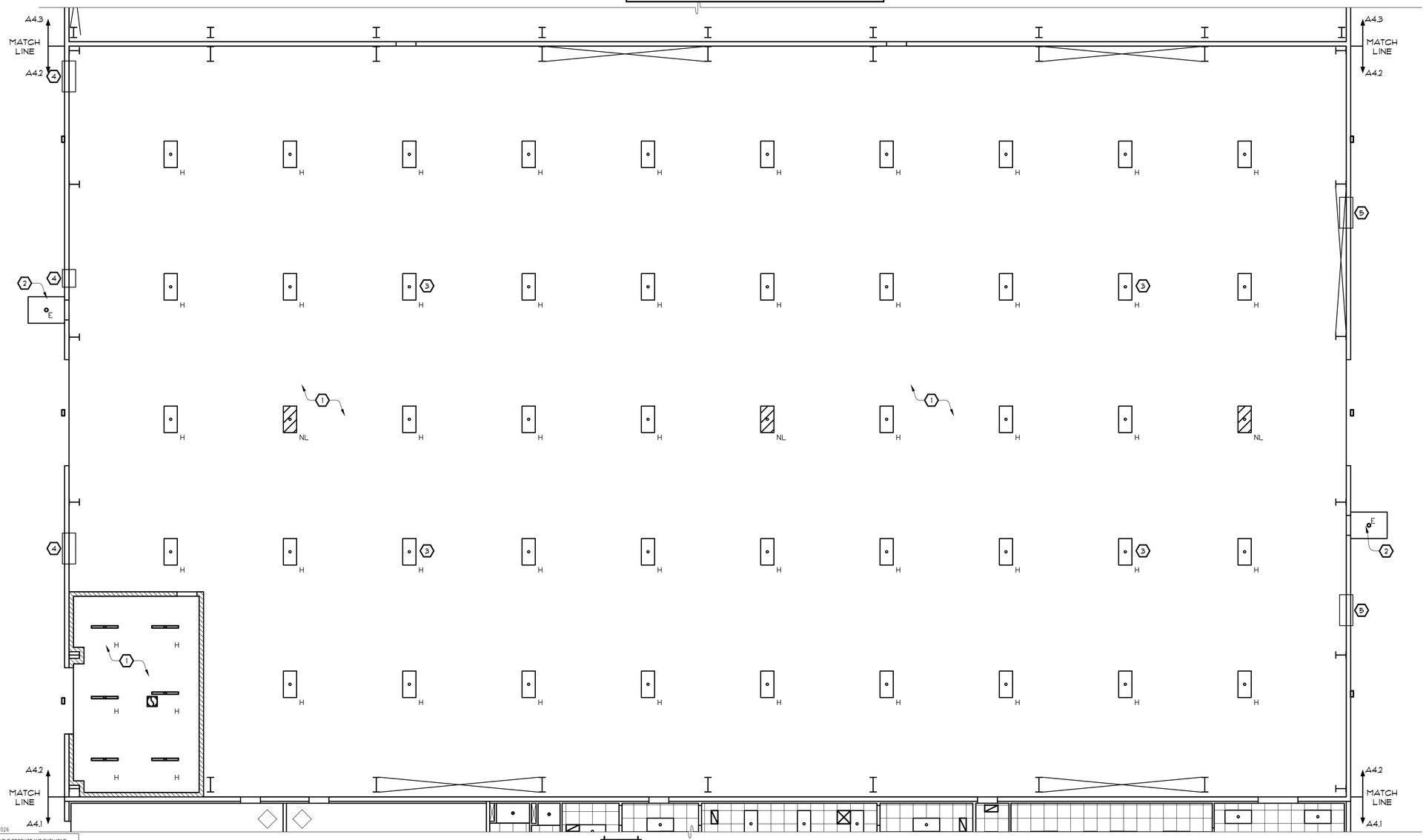
E. ALL ROOMS WITHOUT SUSPENDED CEILING SHALL HAVE THE UNDER SIDE OF FLOOR DECKING, BAR JOISTS, STRUCTURE, ETC. PAINTED WHITE.

F. ALL ELEVATIONS SHOWN ARE FROM TOP OF FINISHED FLOOR.

G. SUSPENDED CEILING SYSTEMS SHALL NOT BE USED AS WALL OR PARTITION BRACING ELEMENTS.

H. COORDINATE AND REVIEW ALL PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT, FIXTURES & DEVICES.

I. SEE ROOM FINISH SCHEDULE FOR FINISHES.



REFLECTED CEILING PLAN

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

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REFLECTED CEILING SYMBOLS

H	2'x4' LED FIXTURE, HANGING FROM STRUCTURE
NL	2'x4' LED NITE LIGHT FIXTURE, HANGING FROM STRUCTURE
E	EXTERIOR RECESSED LIGHTS
	EXTERIOR LIGHT
16A	LIGHT FIXTURE INFORMATION IS PROVIDED ON LIGHTING PLAN

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

C. ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED USING HANGER WIRES OR OTHER SUPPORT METHODS. DEVICES SHALL NOT BE SUPPORTED BY CEILING GRID OR CEILING TILES.

D. UNLESS OTHERWISE NOTED, CEILINGS ARE TO BE CENTERED IN EACH ROOM IN BOTH DIRECTIONS, EITHER WITH THE GRID CENTERED OR CEILING TILE CENTERED.

E. ALL ROOMS WITHOUT SUSPENDED CEILING SHALL HAVE THE UNDER SIDE OF FLOOR DECKING, BAR JOISTS, STRUCTURE, ETC. PAINTED WHITE.

F. ALL ELEVATIONS SHOWN ARE FROM TOP OF FINISHED FLOOR.

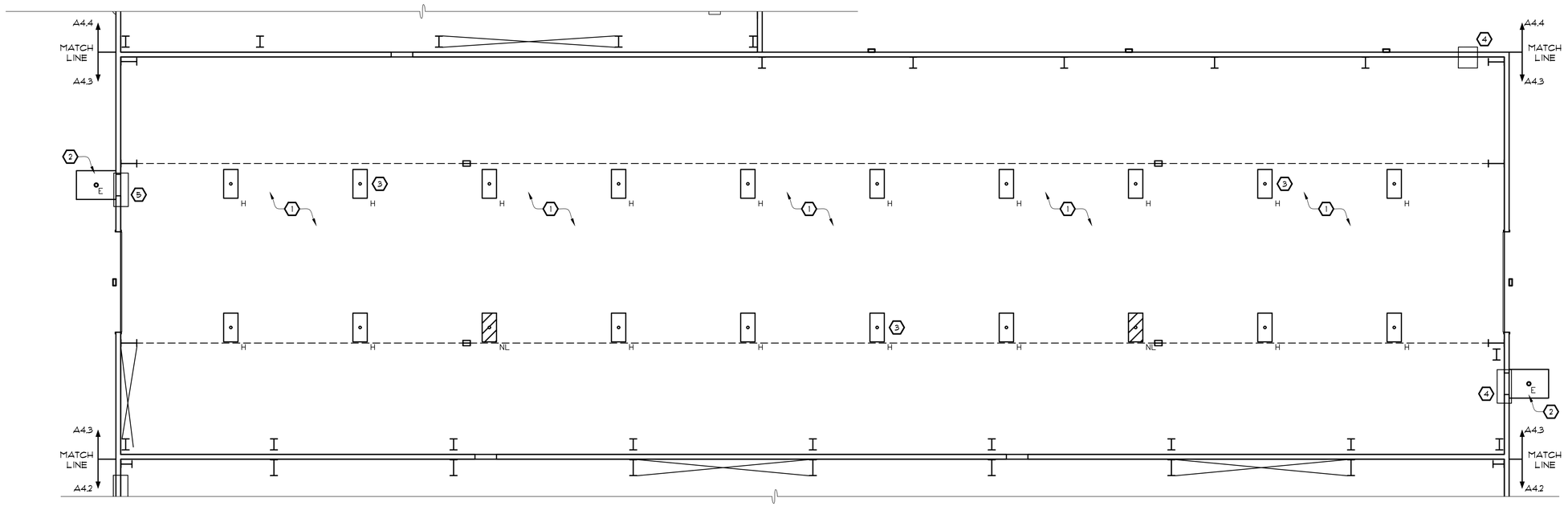
G. SUSPENDED CEILING SYSTEMS SHALL NOT BE USED AS WALL OR PARTITION BRACING ELEMENTS.

H. COORDINATE AND REVIEW ALL PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT, FIXTURES & DEVICES.

I. SEE ROOM FINISH SCHEDULE FOR FINISHES.

CODED NOTES:

1. OPEN CEILING STRUCTURE.
16A 2. INSTALL ALUMINUM SOFFIT, WITH FLAT PROFILE. COORDINATE LOCATION OF RECESSED LIGHT FIXTURE.
16A 3. INSTALL LIGHT FIXTURES. SEE ELECTRICAL PLAN.
15B 16A 4. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
15B 16A 5. INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.



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

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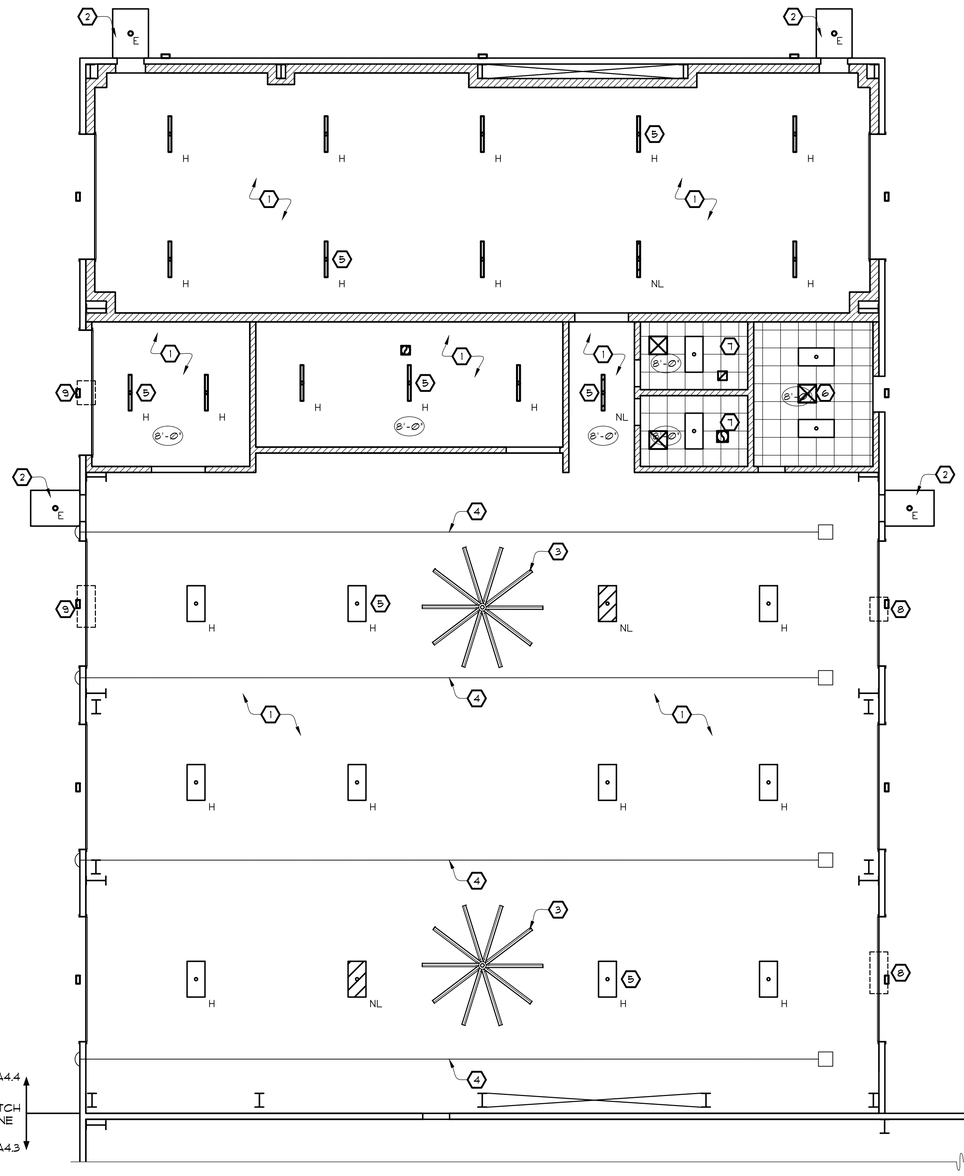

REFLECTED CEILING PLAN
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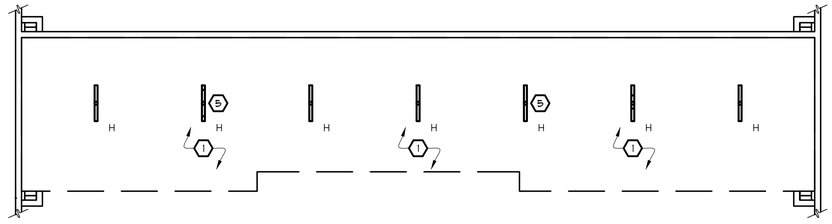

MEZZANINE REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

REFLECTED CEILING SYMBOLS

	2'x4' LED RECESSED TROFFER
H	2'x4' LED FIXTURE, HANGING FROM STRUCTURE
NL	2'x4' LED NITE LIGHT FIXTURE, HANGING FROM STRUCTURE
E	EXTERIOR RECESSED LIGHTS
H	4' LED STRIP, HANGING FROM STRUCTURE
NL	4' LED STRIP NITE LIGHT FIXTURE, HANGING FROM STRUCTURE
	EXTERIOR LIGHT
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
16A	LIGHT FIXTURE INFORMATION IS PROVIDED ON LIGHTING PLAN

GENERAL NOTES:

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B. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

C. ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED USING HANGER WIRES OR OTHER SUPPORT METHODS. DEVICES SHALL NOT BE SUPPORTED BY CEILING GRID OR CEILING TILES.

D. UNLESS OTHERWISE NOTED, CEILINGS ARE TO BE CENTERED IN EACH ROOM IN BOTH DIRECTIONS, EITHER WITH THE GRID CENTERED OR CEILING TILE CENTERED.

E. ALL ROOMS WITHOUT SUSPENDED CEILING SHALL HAVE THE UNDER SIDE OF FLOOR DECKING, BAR JOISTS, STRUCTURE, ETC. PAINTED WHITE.

F. ALL ELEVATIONS SHOWN ARE FROM TOP OF FINISHED FLOOR.

G. SUSPENDED CEILING SYSTEMS SHALL NOT BE USED AS WALL OR PARTITION BRACING ELEMENTS.

H. COORDINATE AND REVIEW ALL PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT, FIXTURES & DEVICES.

I. SEE ROOM FINISH SCHEDULE FOR FINISHES.

CODED NOTES:

1. OPEN CEILING STRUCTURE.
16A 2. INSTALL ALUMINUM SOFFIT, WITH FLAT PROFILE. COORDINATE LOCATION OF RECESSED LIGHT FIXTURE.
15B 16A 3. INSTALL HVLS FAN. COORDINATE POWER WITH ELECTRICAL CONTRACTOR. SEE HVLS FAN SCHEDULE. FANS MUST STOP OPERATION W/ FIRE ALARM. SEE ELECTRICAL SHEETS FOR RELAY FOR FANS.
15B 4. INSTALL TUBE HEATERS AT 15'-0" A.F.F. SEE MECHANICAL PLANS.
16A 5. INSTALL LIGHT FIXTURES. SEE ELECTRICAL PLAN.
6. INSTALL CEILING TILE & GRID.
7. INSTALL FRAMING AND MOISTURE RESISTANT GYPSUM BOARD CEILING.
15B 16A 8. EXHAUST LOUVER . COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
15B 16A 9. INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.

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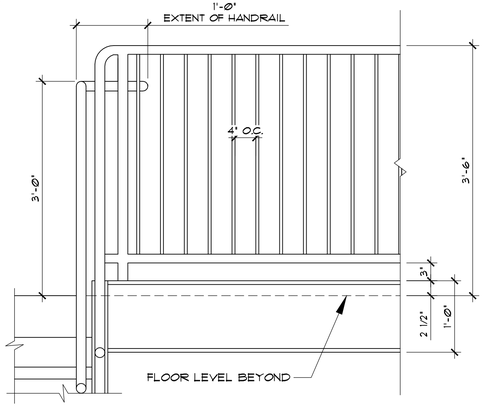
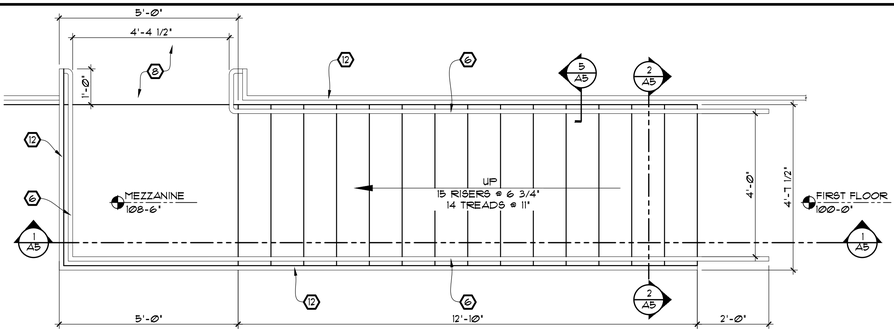
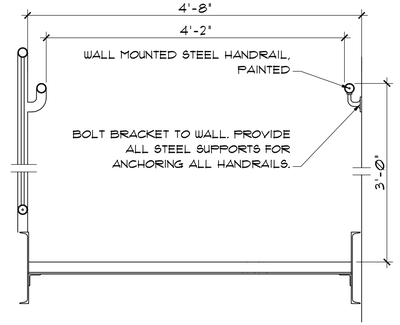


3/A5 **GUARDRAIL AT OPENING LANDING**
SCALE: 1"=1'-0"



STAIR PLAN - FIRST FLOOR
SCALE: 1/2"=1'-0"



2/A5 **STAIR FLIGHT SECTION**
SCALE: 1"=1'-0"

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

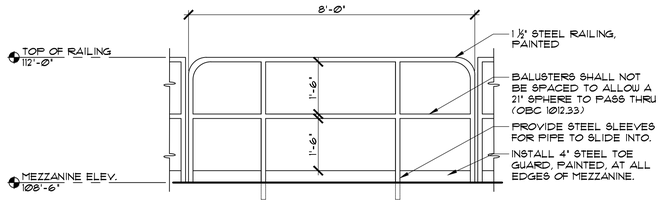
C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS. DIMENSIONS INDICATED ARE TO FACE OF STUDS & FRAMING.

D. GW4L CONTRACTOR IS RESPONSIBLE FOR LAYOUT ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

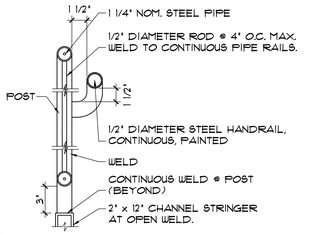
E. EACH CONTRACTOR SHALL COORDINATE ALL BLOCKING IN WALLS FOR THEIR WALL MOUNTED ITEMS.

F. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY GW4L.

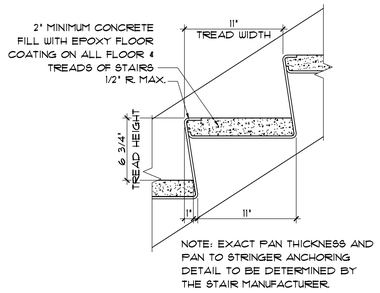
G. STAIR MANUFACTURER SHALL PROVIDE SHOP DRAWINGS AS REQUIRED PER THE SPECIFICATIONS. CONTRACTOR MUST COORDINATE ALL OPENINGS, DIMENSIONS, WALL LOCATIONS, SUPPORTS, BEAM POCKETS, ETC. WITH MASON PRIOR TO CMU WALLS BEING INSTALLED. ALL STRUCTURAL AND STEEL COMPONENTS REQUIRED ARE TO BE SUPPLIED AND LOCATED FOR THE MASON BY THE STAIR MANUFACTURER AND INSTALLER. DESIGN STAIR SYSTEM TO MEET ALL APPLICABLE BUILDING CODES.



6/A5 **REMOVABLE GUARDRAIL DETAIL**
SCALE: 1/2"=1'-0"

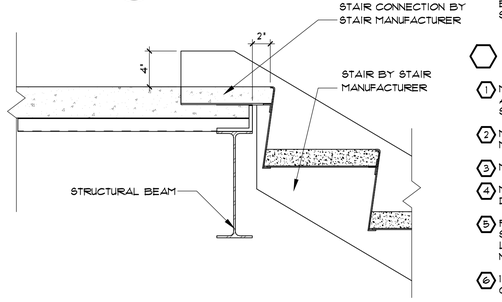


4/A5 **STAIR GUARDRAIL DETAIL**
SCALE: 1-1/2"=1'-0"



NOTE: EXACT PAN THICKNESS AND PAN TO STRINGER ANCHORING DETAIL TO BE DETERMINED BY THE STAIR MANUFACTURER.

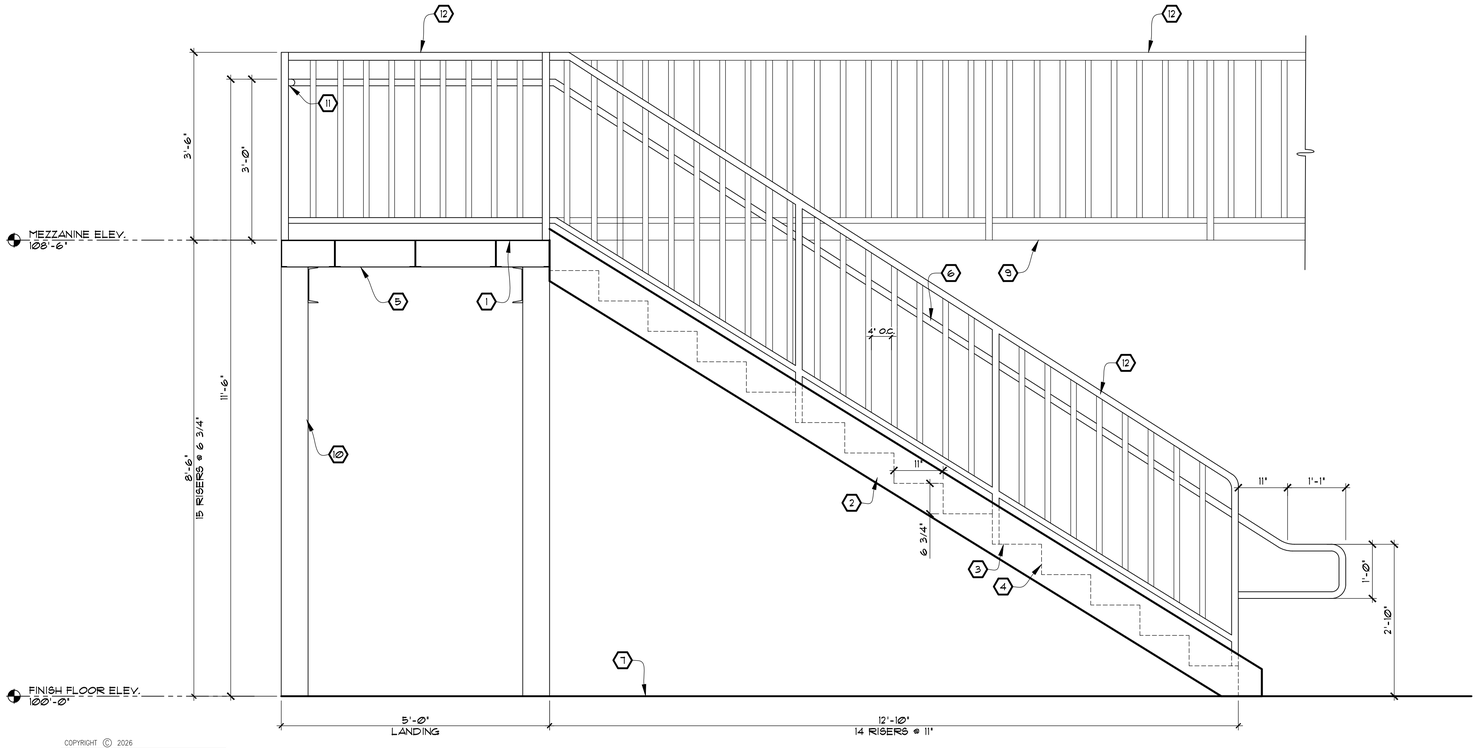
8/A5 **TREAD & RISER DETAIL**
SCALE: 1-1/2"=1'-0"



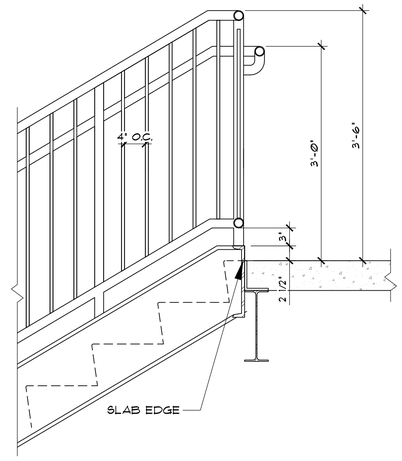
7/A5 **STAIR-SLAB CONNECTION DETAIL**
SCALE: 1-1/2"=1'-0"

CODED NOTES:

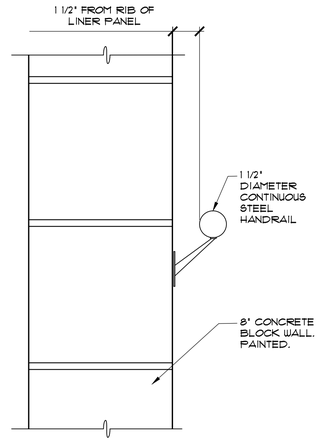
1. METAL STAIR LANDING & CURB AT ALL WALLS. PROVIDE AND INSTALL ACCORDING TO MANUFACTURER'S SHOP DRAWINGS. TOP SURFACE SHALL HAVE A SAFETY GRIT SURFACE. BOTTOM SHALL BE PAINTED.
2. METAL STAIR STRINGER(S). PROVIDE AND INSTALL ACCORDING TO MANUFACTURER'S SHOP DRAWINGS. PAINT.
3. METAL STAIR TREAD. TREAD 11". STAIR MANUFACTURER SHALL DESIGN.
4. METAL STAIR RISER. RISER 6 3/4". STAIR MANUFACTURER SHALL DESIGN.
5. PROVIDE AND INSTALL ALL STRUCTURAL COMPONENTS FOR METAL STAIR SYSTEM. CONTRACTOR SHALL COORDINATE WITH MASON LOCATION OF BEAM POCKETS FOR THE LANDINGS, ETC. PROVIDE NEEDED CLEARANCE BETWEEN LANDING AND CMU WALL. PAINT.
6. 1 1/2" DIAMETER STEEL HANDRAIL, PAINTED. RAILING SHALL BE CONTINUOUS. SEE DETAIL ON SHEET 4/A5.
7. 4" POURED CONCRETE SLAB W/ WI.4 x WI.4 WWM. OVER 8" COMPACTED GRANULAR BASE, & 6 MIL VAPOR BARRIER.
8. MEZZANINE. SEE STRUCTURAL PLANS.
9. INSTALL MEZZANINE FLOORING. NON-SLIP ROOF COATING.
10. SUPPORT COLUMN. PAINTED.
11. PROVIDE ALL STEEL STRUCTURAL SUPPORTS SO THAT ALL HANDRAILS MEET ALL CODE REQUIRED LATERAL LOADING REQUIREMENTS.
12. 1 1/2" DIAMETER STEEL GUARDRAIL, PAINTED. RAILING SHALL BE CONTINUOUS. SEE DETAIL ON SHEET 4/A5.



1/A5 **STAIR SECTION**
SCALE: 3/4"=1'-0"



9/A5 **STAIR TOP LANDING DETAIL**
SCALE: 1"=1'-0"



5/A5 **HANDRAIL DETAIL**
SCALE: 3"=1'-0"

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STAIR PLANS, SECTIONS, & DETAILS

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RESTROOM ACCESSORIES SCHEDULE

MARK	ITEM/DESCRIPTION	BOBRICK CATALOG NO.	NO. REQ.	REMARKS
R1	MIRROR	BOBRICK B-292 1836	2 / RR	36" x 24" STAINLESS STEEL FRAME & SHELF
R2	VERTICAL GRAB BAR	BOBRICK B-5806X18	1 / RR	18", PEENED GRIP, STAINLESS STEEL
R3	HORIZONTAL GRAB BAR	BOBRICK B-68137.99	1 / RR	36" x 54", PEENED GRIP, STAINLESS STEEL
R4	TOILET PAPER HOLDER		1 / TOILET	STAINLESS STEEL (BY OWNER AND INSTALLED BY CONTRACTOR)
R5	SOAP DISPENSER		2 / RR	SURFACE MOUNTED (BY OWNER AND INSTALLED BY CONTRACTOR)
15A R6	TRAP WRAP	BOBRICK	1 / FIXTURE	
R7	PAPER TOWEL DISPENSER		1 / RR	SURFACE MOUNTED 14"x28", RECESSED (BY OWNER AND INSTALLED BY CONTRACTOR)

NOTE: GWAL CONTRACTOR SHALL PROVIDE ALL BLOCKING REQUIRED FOR INSTALLATION OF ALL RESTROOM ACCESSORIES, INCLUDING THOSE ITEMS SUPPLIED BY OWNER.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

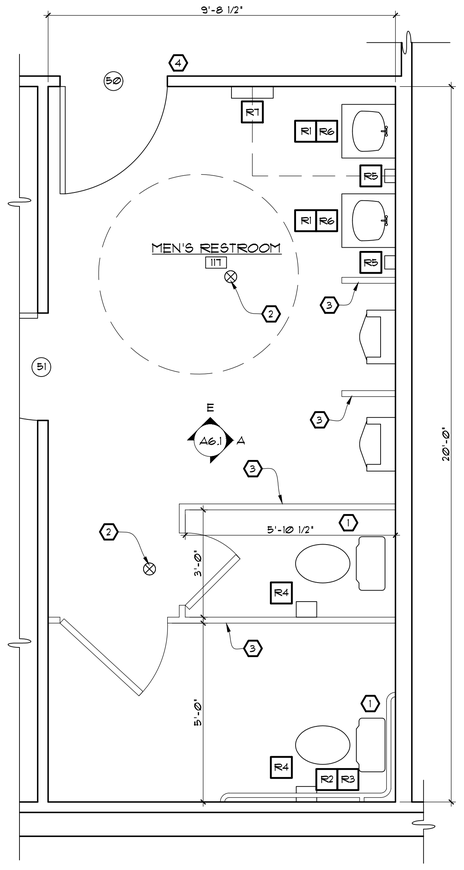
CODED NOTES:

15A 1 TOILET FLUSH HANDLES SHALL BE LOCATED ON OPEN SIDE OF TANK.

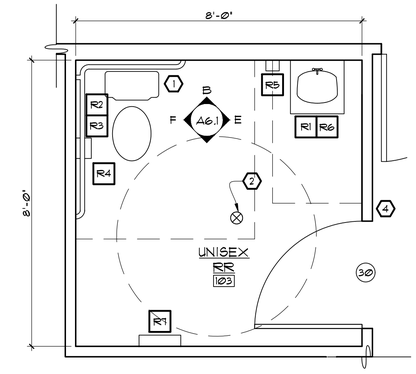
15A 2 PROVIDE & INSTALL FLOOR DRAIN. SEE PLUMBING PLANS.

3 PROVIDE & INSTALL RESTROOM PARTITIONS, HARDWARE AND WALL SUPPORTS. PROVIDE BLOCKING AS REQUIRED.

4 RESTROOM SIGNAGE INSTALLED 5'-0" A.F.F. TO CENTERLINE OF SIGN. SEE SHEET G1.2.



ENLARGED RR #117 PLAN
SCALE: 1/2"=1'-0"



ENLARGED RR #103 PLAN
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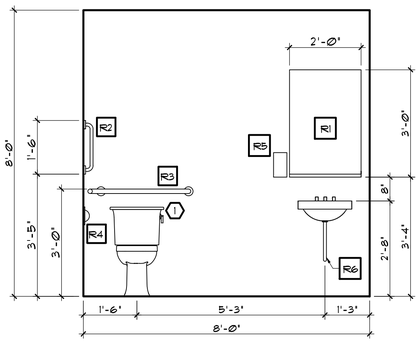
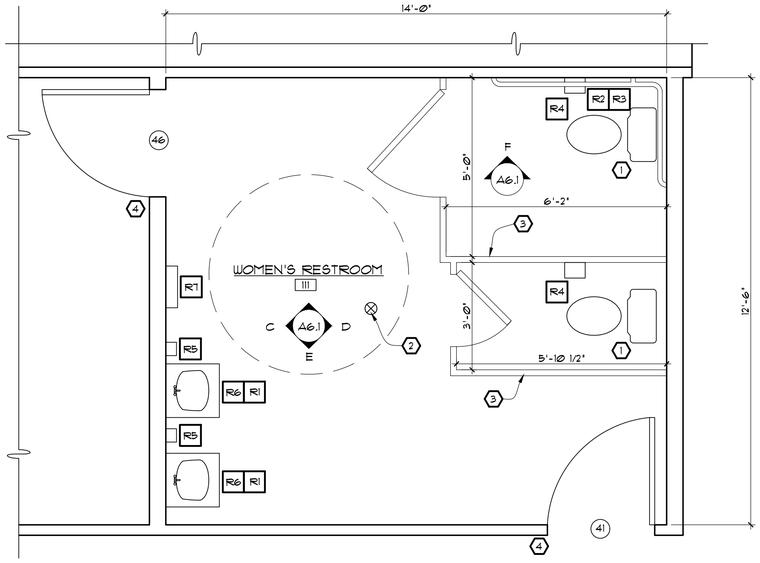
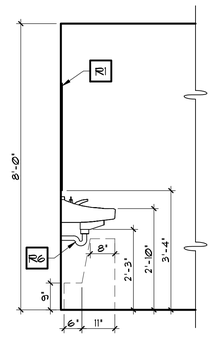


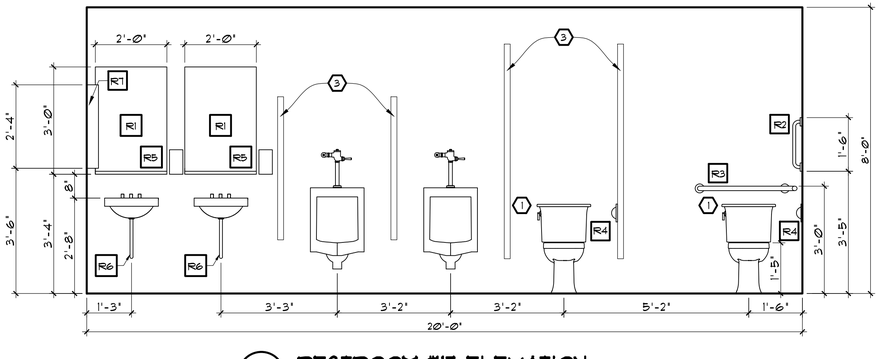
B A6.1 RESTROOM #103 ELEVATION
SCALE: 1/2"=1'-0"



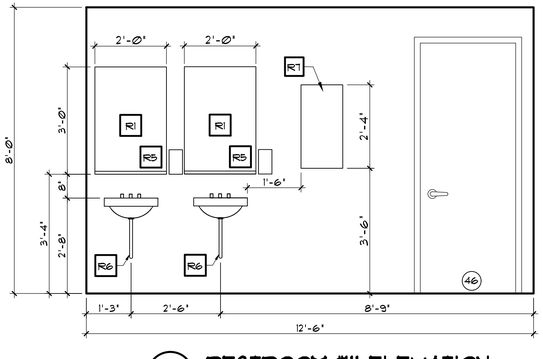
ENLARGED RR #111 PLAN
SCALE: 1/2"=1'-0"



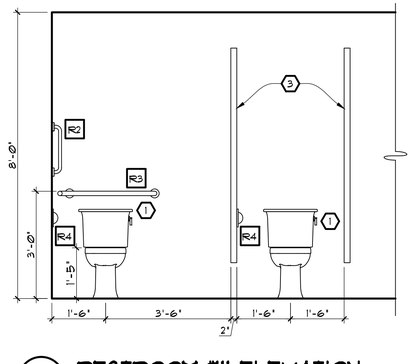
E A6.1 ADA LAVATORY ELEVATION
SCALE: 1/2"=1'-0"



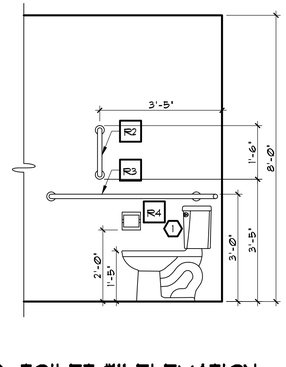
A A6.1 RESTROOM #117 ELEVATION
SCALE: 1/2"=1'-0"



C A6.1 RESTROOM #111 ELEVATION
SCALE: 1/2"=1'-0"



D A6.1 RESTROOM #111 ELEVATION
SCALE: 1/2"=1'-0"



F A6.1 TOILET #111 ELEVATION
SCALE: 1/2"=1'-0"

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WDC GROUP

REVISIONS:

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

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ENLARGED FLOOR PLANS
& INTERIOR ELEVATIONS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A6.1
59 OF 112

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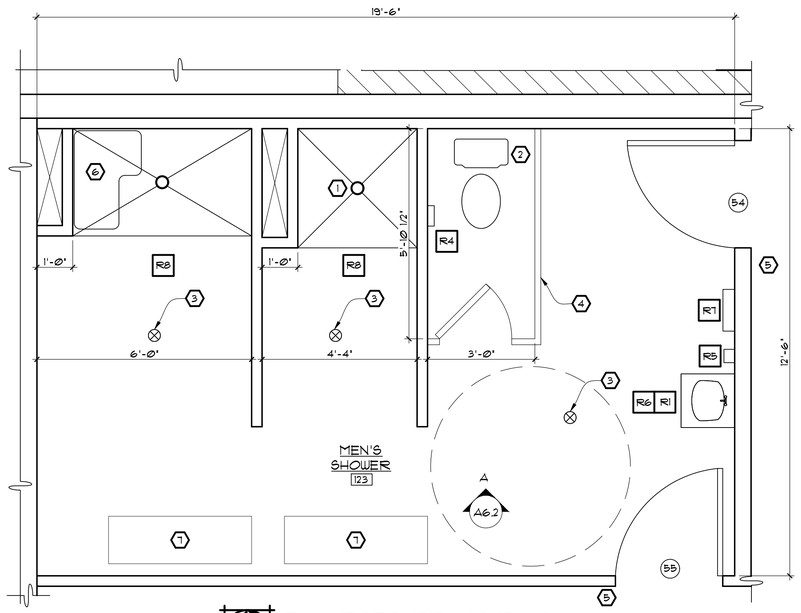
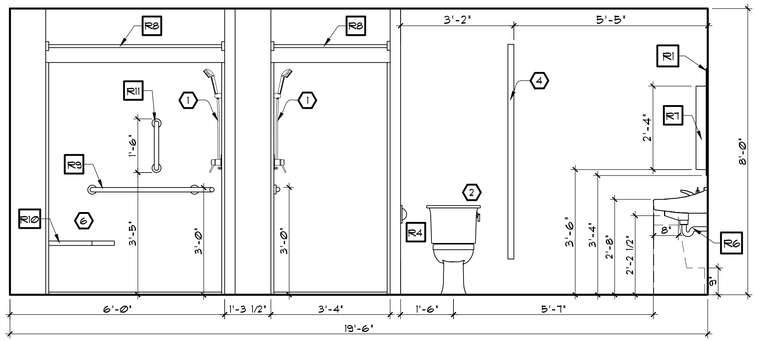


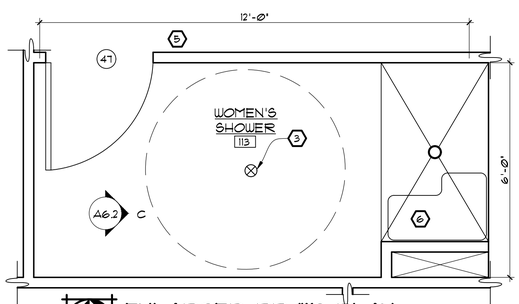
ENLARGED RR #123 PLAN

SCALE: 1/2"=1'-Ø"



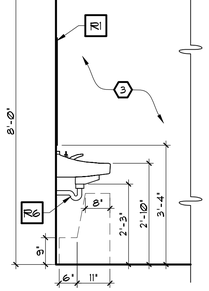
A A6.2 **RESTROOM #123 ELEVATION**

SCALE: 1/2"=1'-Ø"



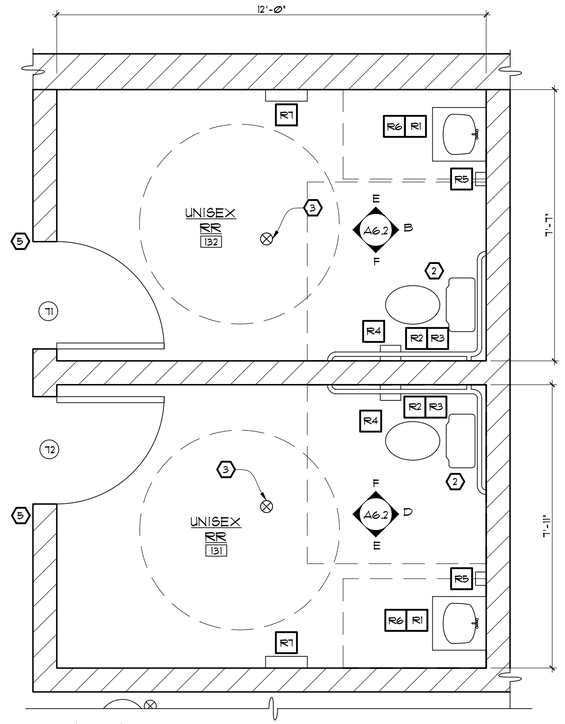
ENLARGED RR #113 PLAN

SCALE: 1/2"=1'-Ø"



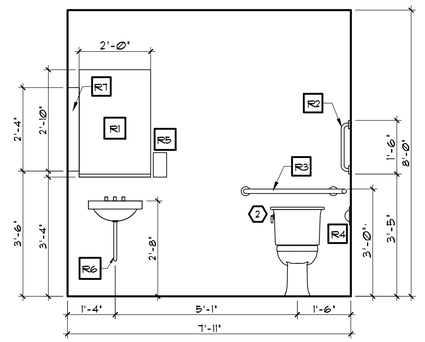
E A6.2 **ADA LAVATORY ELEVATION**

SCALE: 1/2"=1'-Ø"



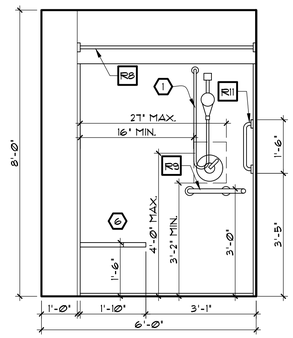
ENLARGED RR #131 & #132 PLAN

SCALE: 1/2"=1'-Ø"



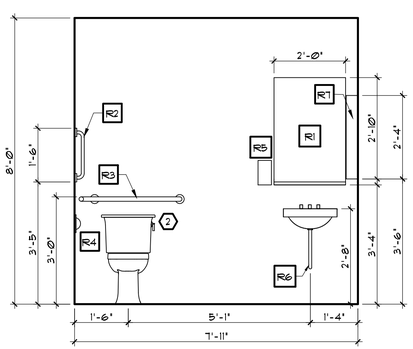
B A6.2 **RESTROOM #132 ELEVATION**

SCALE: 1/2"=1'-Ø"



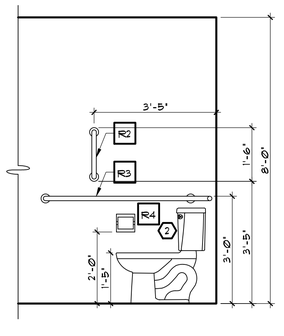
C A6.2 **RESTROOM #113 ELEVATION**

SCALE: 1/2"=1'-Ø"



D A6.2 **RESTROOM #131 ELEVATION**

SCALE: 1/2"=1'-Ø"



F A6.2 **TOILET #131 ELEVATION**

SCALE: 1/2"=1'-Ø"

RESTROOM ACCESSORIES SCHEDULE

MARK	ITEM/DESCRIPTION	BOBRICK CATALOG NO.	NO. REQ.	REMARKS
R1	MIRROR	BOBRICK B-292 1836	2 / RR	36" x 24" STAINLESS STEEL FRAME & SHELF
R2	VERTICAL GRAB BAR	BOBRICK B-5806x18	1 / RR	18", PEENED GRIP, STAINLESS STEEL
R3	HORIZONTAL GRAB BAR	BOBRICK B-68137.99	1 / RR	36" x 54", PEENED GRIP, STAINLESS STEEL
R4	TOILET PAPER HOLDER		1 / TOILET	STAINLESS STEEL (BY OWNER AND INSTALLED BY CONTRACTOR)
R5	SOAP DISPENSER		2 / RR	SURFACE MOUNTED (BY OWNER AND INSTALLED BY CONTRACTOR)
15A R6	TRAP WRAP	BOBRICK	1 / FIXTURE	
R7	PAPER TOWEL DISPENSER		1 / RR	SURFACE MOUNTED 14"x28", RECESSED (BY OWNER AND INSTALLED BY CONTRACTOR)
R8	SHOWER CURTAIN / ROD	BOBRICK B-207	1/ SHOWER	STAINLESS STEEL, SATIN FINISH, 48" WIDE. CURTAIN SHALL BE MIN 6" WIDER THAN OPENING.
R9	HORIZONTAL GRAB BAR	BOBRICK B-6861	1 / SHOWER	16" x 31", PEENED GRIP, STAINLESS STEEL
R10	FOLDING SHOWER SEAT	BOBRICK B-5181	1 / SHOWER	SURFACE MOUNTED, STAINLESS STEEL
R11	VERTICAL GRAB BAR	BOBRICK B-5806x18	1 / SHOWER	18", PEENED GRIP, STAINLESS STEEL

NOTE: GWAL CONTRACTOR SHALL PROVIDE ALL BLOCKING AND INSTALLATION OF ALL RESTROOM ACCESSORIES, INCLUDING THOSE ITEMS SUPPLIED BY OWNER.

GENERAL NOTES:

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D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

CODED NOTES:

15A 1 PROVIDE & INSTALL SHOWER UNIT WITH HAND SPRAYER.

15A 2 TOILET FLUSH HANDLES SHALL BE LOCATED ON OPEN SIDE OF TANK.

15A 3 PROVIDE & INSTALL FLOOR DRAIN. SEE PLUMBING PLANS.

4 PROVIDE & INSTALL RESTROOM PARTITIONS, HARDWARE AND WALL SUPPORTS. PROVIDE BLOCKING AS REQUIRED.

5 RESTROOM SIGNAGE INSTALLED 5'-Ø" A.F.F. TO CENTERLINE OF SIGN. SEE SHEET G1.2

15A 6 PROVIDE & INSTALL ADA SHOWER UNIT WITH GRAB BARS, SEAT AND HAND SPRAYER.

7 PROVIDE & INSTALL BOLT-MOUNTED ALUMINUM LOCKER BENCHES. VERIFY SIZE & LOCATION WITH OWNER/ARCHITECT. SEE DETAIL 7/A8.1.

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

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A NEW
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ENLARGED FLOOR PLANS
& INTERIOR ELEVATIONS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

A6.2
60 OF 112

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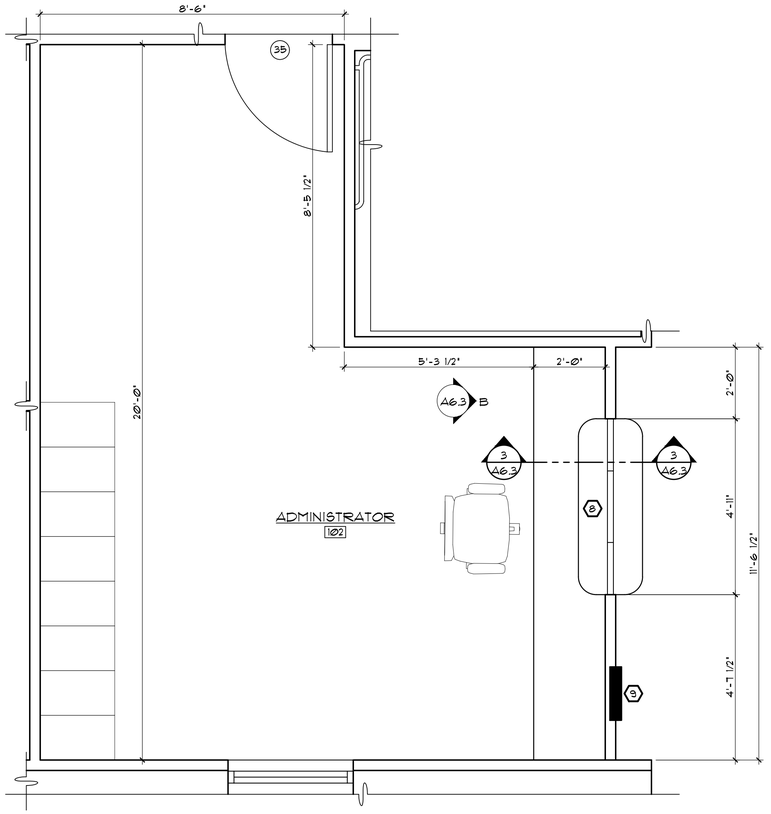
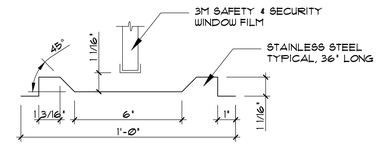


ENLARGED ADMINISTRATION #102 PLAN

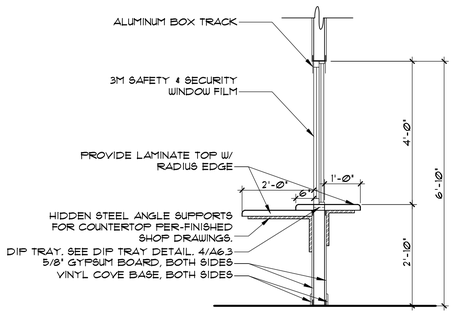
SCALE: 1/2"=1'-0"



THESE STAINLESS STEEL TRAYS ARE SPECIALLY DESIGNED TO BE WIDE ENOUGH TO PASS CHECK, TAX PAPERS AND ROLLS OF COINS UNDER THE WINDOWS. THEY ARE DESIGNED TO ACCOMMODATE OUR NOMINAL SIZE OF BULLET RESISTANT WINDOWS. TRAYS ARE TO BE FRAMED TO LAMINATE SURFACE.

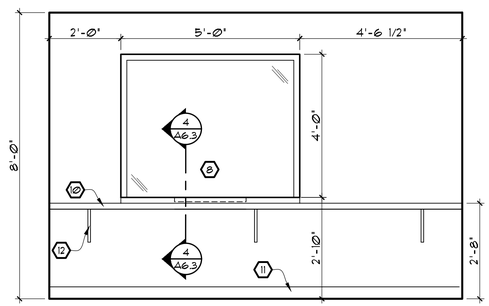
4 / A6.3 DIP TRAY DETAIL

SCALE: N.T.S.



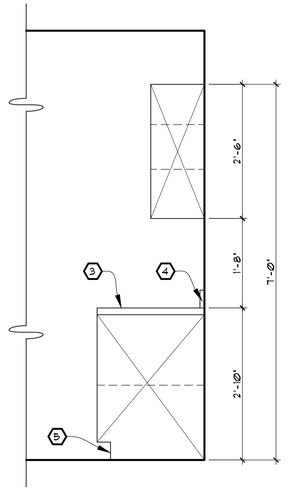
3 / A6.3 ADMINISTRATION #102 SECTION

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



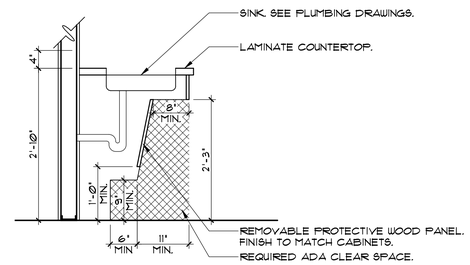
B / A6.3 ADMINISTRATION #102 ELEVATION

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



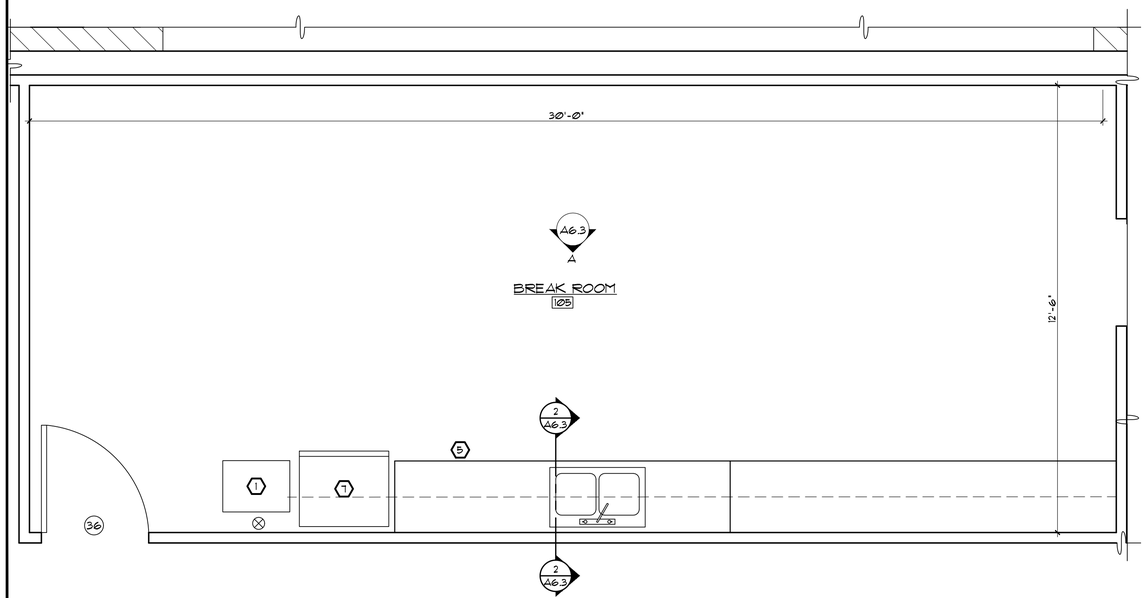
1 / A6.3 CABINET SECTION

SCALE: 3/4"=1'-0"



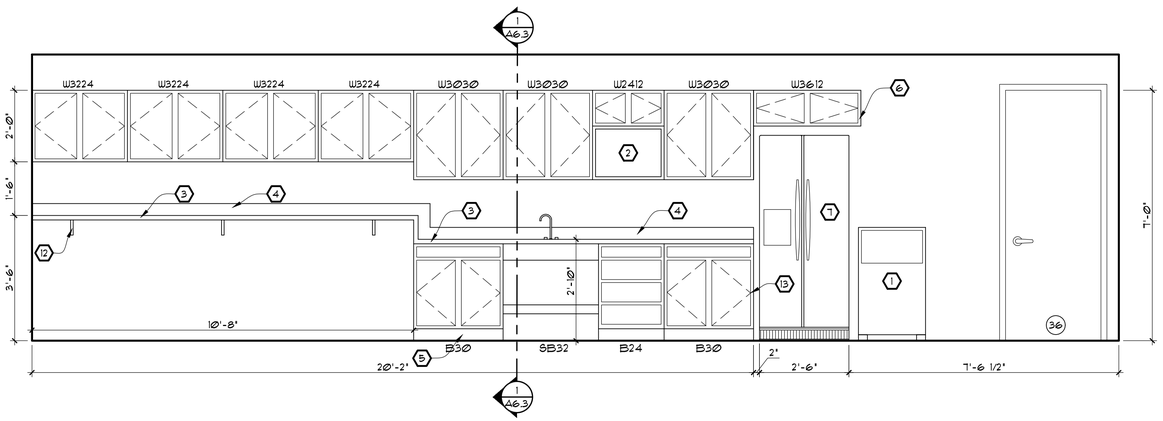
2 / A6.3 SINK SECTION

SCALE: 3/4"=1'-0"



ENLARGED BREAK ROOM #105 PLAN

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



A / A6.3 BREAK ROOM #105 ELEVATION

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

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

GENERAL NOTES:

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C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

CODED NOTES:

15A 16A 1 ICE MAKER. PLUMBER SHALL INSTALL. COORDINATE LOCATION OF FLOOR DRAIN AND WATER PIPE.

16A 2 OWNER PROVIDED MICROWAVE. PROVIDE ELECTRIC.

3 LAMINATE COUNTER TOP.

4 4" BACKSPLASH.

5 4" TOE KICK ON ALL BASE CABINETS.

6 PROVIDE AND INSTALL BASE, WALL CABINETS, AND LAMINATE TOPS. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.

15A 16A 7 REFRIGERATOR BY OWNER. PROVIDE WATER HOOKUP AND ELECTRIC.

8 PROVIDE & INSTALL 3M SAFETY & SECURITY WINDOW FILM, 2" HOLLOW METAL FRAME, WITH DIP TRAY. SEE DETAIL 3/A6.3 & 4/A6.3. PAINT FRAME.

9 FIRE CABINET & FIRE EXTINGUISHER LOCATION. OWNER TO PROVIDE FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.

10 PROVIDE AND INSTALL 1-1/2" LAMINATE COUNTERTOP WITH RADIUS EDGES.

11 4" VINYL COVE BASE.

12 HIDDEN STEEL ANGLE SUPPORTS FOR COUNTERTOP PRE-FINISHED SHOP DRAWINGS TO PROVIDE STRUCTURAL INFORMATION FOR SUPPORTS AND ANCHORS.

13 PROVIDE END PANEL AND REQUIRED SUPPORT FOR COUNTERTOP.

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DATE: 05/18/2026
CHECKED BY:

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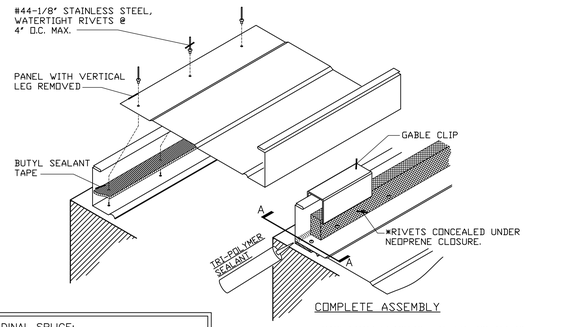
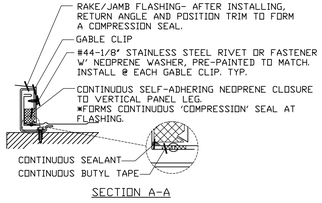


COMPLETE ASSEMBLY

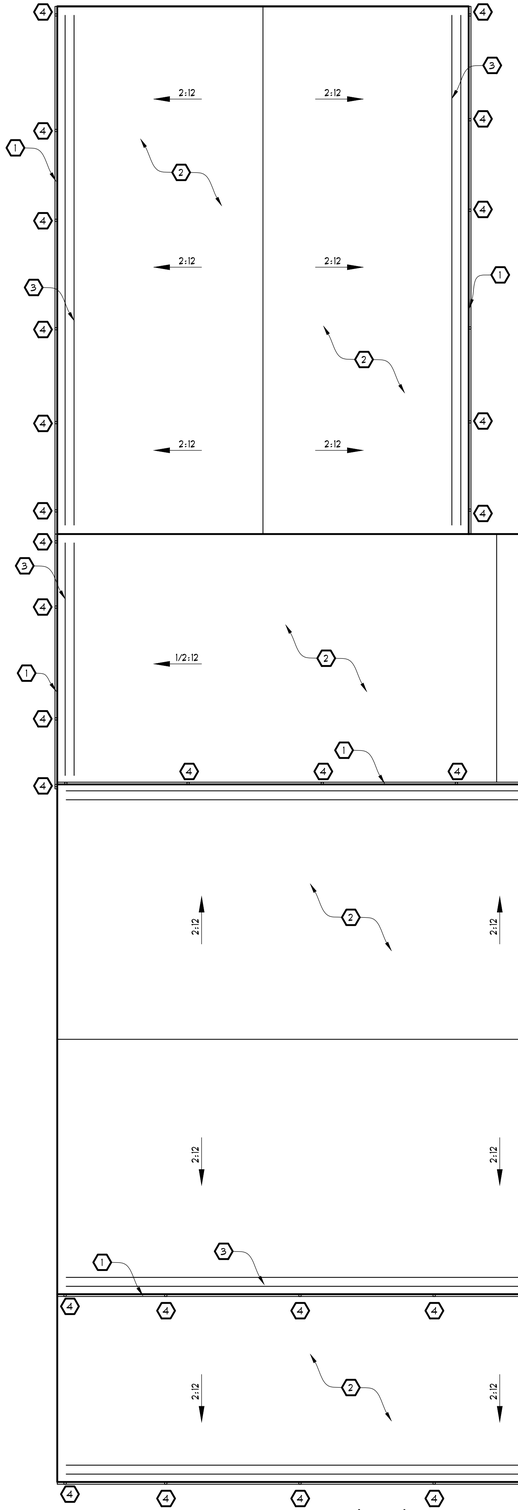
LONGITUDINAL SPLICE:
- MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- ERECTOR TO CUT OFF THE VERTICAL PANEL LEG LEAVING APPROXIMATELY 2" OF PANEL PAN LEFT ATTACHED.
- FROM THE MAIN PANEL, CUT AND DISCARD EXCESS PANEL AS REQUIRED TO ADJUST WIDTH.
- ADHERE CONTINUOUS BUTYL SEALANT TAPE TO THE BASE OF THE VERTICAL PANEL LEG AND RE-ATTACH USING #44-1/8" STAINLESS STEEL RIVETS @ 4" o.c. max. DOWN THE ENTIRE LENGTH OF THE PANEL.
- APPLY A CONTINUOUS BEAD OF TRIPOLYMER SEALANT TO THE CORNER GROOVE OF THE PANEL SPLICE.
- HINT: MEASURE TWICE, CUT ONCE!



SECTION A-A

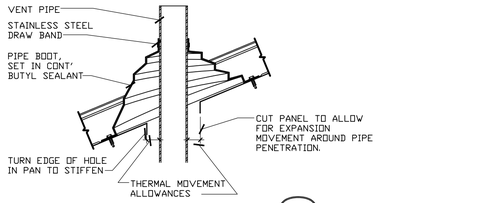
3/A7 PANEL ADJUSTMENT DETAIL LONGITUDINAL SPLICE

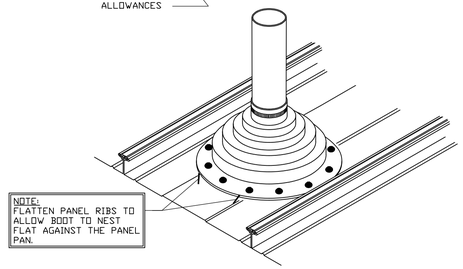
SCALE: N.T.S.



ROOF PLAN

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





2/A7 PIPE BOOT THROUGH PANEL PAN

SCALE: N.T.S.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

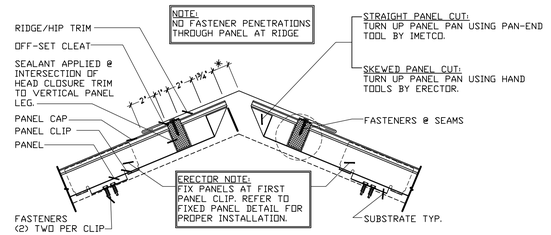
C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

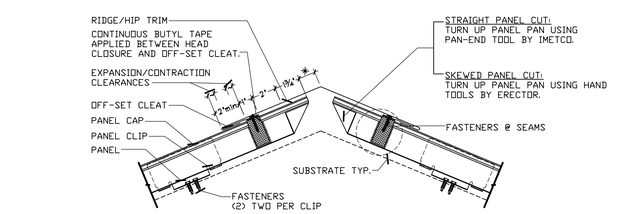
CODED NOTES:

1. STANDARD PEMB GUTTERS AND DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWN SPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. VERIFY W/ ARCHITECT. CONNECTION AND BOOT BY SITE CONTRACTOR.
2. INSTALL STANDING SEAM METAL ROOF BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. COLOR TO BE CHOSEN BY ARCHITECT.
3. INSTALL CONTINUOUS METAL ICE GUARDS TO MATCH ROOF COLOR AND AS RECOMMENDED WITH ROOF SYSTEM.
4. DOWNSPOUT LOCATION. DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. VERIFY WITH ARCHITECT. CONNECTION AND BOOT BY SITE CONTRACTOR.



1/A7 EXPANDING RIDGE/HIP DETAIL

SCALE: N.T.S.



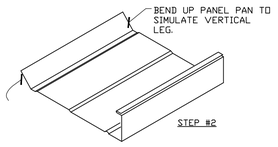
5/A7 PANEL ADJUSTMENT DETAIL VERTICAL LEG SPREAD

SCALE: N.T.S.

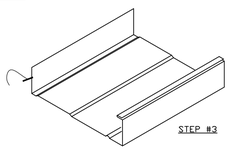
COMPLETE ASSEMBLY

STEP #1

BEND PANEL PAN:
- MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- IN ADDITION TO THE NEW PANEL WIDTH MEASUREMENT, IT IS CRUCIAL TO ADD AN EXTRA 2" OF PANEL PAN TO YOUR OVERALL MEASUREMENT. THIS WILL BE BENT UP VERTICALLY TO SIMULATE A VERTICAL PANEL LEG.
- CUT OFF AND DISCARD VERTICAL PANEL LEG AND EXCESS PANEL PAN AS REQUIRED.
- USING HAND TOOLS, BEGIN BENDING PANEL PAN VERTICALLY THE FULL LENGTH OF THE PANEL.
- IT MAY TAKE SEVERAL PASSES TO BEND PANEL PAN TO A FULL 90°.
- HINT: MEASURE TWICE, CUT ONCE!



STEP #2



STEP #3

4/A7 PANEL ADJUSTMENT DETAIL BENDING PANEL PAN

SCALE: N.T.S.

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ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
80 NORTHWOODS BLVD
VANDALIA, OHIO 45377

ROOF PLAN & DETAILS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A7
62 OF 112

P:\PROJECTS\23014 Vandalia Public Works\DWGS\Sheets\A7 Vandalia Public Works.dwg 4/30/2026 9:45:56 AM - AutoCAD PDF (General Documentation).pc3
ARCH full bleed D (36.00 x 24.00 inches) 1:1

DOOR SCHEDULE

	DOOR NUMBER	SIZE WIDTH	SIZE HEIGHT	RATING	TYPE	MATERIAL	HARDWARE SET	JAMB DETAIL	SILL DETAIL	FRAME MATERIAL	HEAD DETAIL	REMARKS
	1	3'-0"	7'-0"		HG	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
	2	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	3	16'-0"	16'-0"		A	STL						OVERHEAD DOOR
	4	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	5	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
8A	6	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
8A	7	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
8A	8	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
	9	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
	10											NOT USED
8A	11	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
	12	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
	13	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	14	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
8A	15	14'-0"	7'-0"		C	STL						OVERHEAD DOOR
	16	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	17	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
8A	18	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
8A	19	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
	20	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	21	14'-0"	14'-0"		B	STL						OVERHEAD DOOR
	22	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	23	16'-0"	16'-0"		A	STL						OVERHEAD DOOR
8A	24	10'-0"	7'-0"		D	STL						OVERHEAD DOOR
8A	25	12'-0"	13'-0"		E	STL						OVERHEAD DOOR/REMOTE OPENER
	26	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
8A	27	10'-0"	9'-0"		G	STL						OVERHEAD DOOR/REMOTE OPENER
	28	3'-0"	7'-0"		NL	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
	29	3'-0"	7'-0"		HG	STL				HM		EXTERIOR DOOR/ACCESS CONTROL
	30	3'-0"	7'-0"		F	STL				HM		
	31	3'-0"	7'-0"		NL	STL				HM		ACCESS CONTROL
	32	3'-0"	7'-0"		NL	STL				HM		ACCESS CONTROL
	33	3'-0"	7'-0"		NL	STL				HM		
	34	3'-0"	7'-0"		NL	STL				HM		
	35	3'-0"	7'-0"		NL	STL				HM		
	36	3'-0"	7'-0"		NL	STL				HM		
	37	3'-0"	7'-0"		F	STL				HM		
	38	3'-0"	7'-0"		NL	STL				HM		
	39	3'-0"	7'-0"		NL	STL				HM		
	40	3'-0"	7'-0"		NL	STL				HM		
	41	3'-0"	7'-0"		F	STL				HM		
	42	3'-0"	7'-0"		NL	STL				HM		
	43	3'-0"	7'-0"		NL	STL				HM		
	44	3'-0"	7'-0"		NL	STL				HM		
	45	3'-0"	7'-0"		F	STL				HM		
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	50	3'-0"	7'-0"		F	STL				HM		
	51	3'-0"	7'-0"		F	STL				HM		
	52	3'-0"	7'-0"		F	STL				HM		
	53	3'-0"	7'-0"		NL	STL				HM		
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	55	3'-0"	7'-0"		F	STL				HM		
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	57	3'-0"	7'-0"		NL	STL				HM		
	58	3'-0"	7'-0"		NL	STL				HM		
	59	3'-0"	7'-0"		NL	STL				HM		
	60	3'-0"	7'-0"		NL	STL				HM		
	61	3'-0"	7'-0"		NL	STL				HM		
	62	3'-0"	7'-0"		NL	STL				HM		
	63	6'-0"	7'-0"		F	STL				HM		
	64	3'-0"	7'-0"		NL	STL				HM		
	65	3'-0"	7'-0"		NL	STL				HM		
	66	3'-0"	7'-0"		NL	STL				HM		
	67	3'-0"	7'-0"		NL	STL				HM		
	68	6'-0"	7'-0"		F	STL				HM		
	69	6'-0"	7'-0"		F	STL				HM		
	70	6'-0"	7'-0"		F	STL				HM		

FG = FULL GLASS, TEMPERED 1/4"
HG = HALF GLASS, TEMPERED 1/4"
HM = HOLLOW METAL
NA = NOT APPLICABLE
PNT = PAINT
STL = STEEL
SCW= SOLID CORE WOOD
F= FLUSH
NL = NARROW LITE
AL = ALUMINUM STOREFRONT

DOOR SCHEDULE

DOOR NUMBER	SIZE WIDTH	SIZE HEIGHT	RATING	TYPE	MATERIAL	HARDWARE SET	JAMB DETAIL	SILL DETAIL	FRAME MATERIAL	HEAD DETAIL	REMARKS
71	3'-0"	7'-0"		NL	STL				HM		
72	3'-0"	7'-0"		NL	STL				HM		
73	3'-0"	7'-0"		NL	STL				HM		

FG = FULL GLASS, TEMPERED 1/4"
HG = HALF GLASS, TEMPERED 1/4"
HM = HOLLOW METAL
NA = NOT APPLICABLE
PNT = PAINT
STL = STEEL
SCW= SOLID CORE WOOD
F= FLUSH
NL = NARROW LITE
AL = ALUMINUM STOREFRONT

NOTES:
1. ALL DOORS & DOOR FRAMES SHALL BE CAULKED AS REQUIRED.
2. ALL EXTERIOR DOORS TO INCLUDE 3M RIOT GLASS FILM.
3. ALL EXTERIOR DOORS & FRAMES TO ALLOW FOR INSTALLATION OF ACCESS CONTROL DOOR STRIKE SWITCH & ROUGH IN FOR CARD READER & ELECTRONIC LOCK FOR ALL EXTERIOR MAN DOORS.

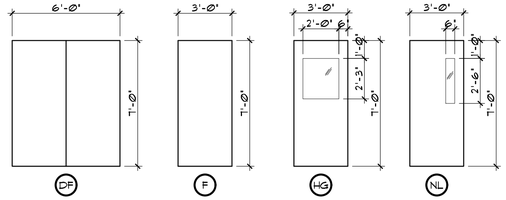
GENERAL NOTES:

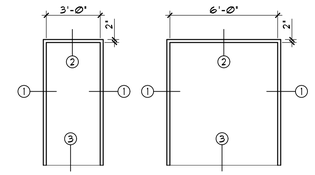
A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

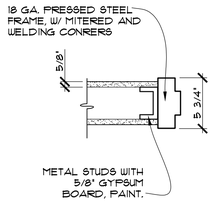
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.





A A8.1 DOOR TYPES
SCALE: N.T.S.

B A8.1 FRAME TYPES
SCALE: N.T.S.



1 A8.1 JAMB
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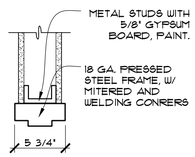

2 A8.1 HEAD
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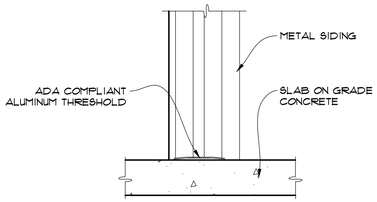
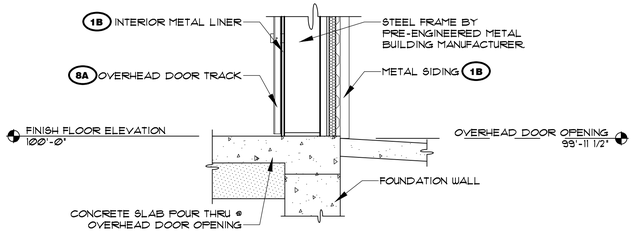
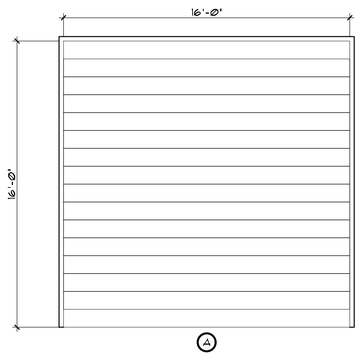
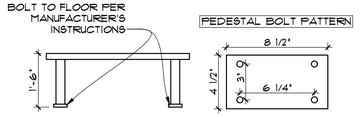


3 A8.1 SILL
SCALE: N.T.S.

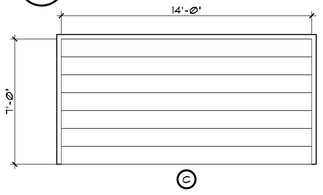


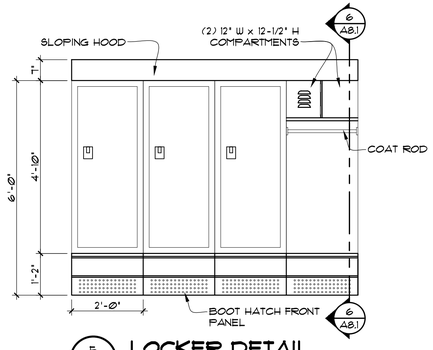
4 A8.1 OVERHEAD DOOR @ SLAB DETAIL
SCALE: 3/4" = 1'-0"



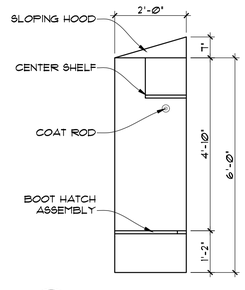


7 A8.1 BENCH DETAILS
SCALE: N.T.S.





5 A8.1 LOCKER DETAIL
SCALE: 1/2" = 1'-0"



6 A8.1 LOCKER SECTION
SCALE: 1/2" = 1'-0"

C A8.1 OVERHEAD DOOR TYPES
SCALE: 1/4"=1'-0"

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STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT
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8909235 EXP. 12/31/26

vandalia ohio
small city. big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
840 NORTHWOODS BLVD
VANDALIA, OHIO 45377
DOOR SCHEDULES & DETAILS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A8.1
63 OF 112

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL NORTH FINISH	WALL NORTH MATERIAL	WALL SOUTH FINISH	WALL SOUTH MATERIAL	WALL EAST FINISH	WALL EAST MATERIAL	WALL WEST FINISH	WALL WEST MATERIAL	CEILING MATERIAL	CEILING HEIGHT
101	VEST	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
102	ADMINISTRATOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
103	UNISEX RESTROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
104	CONFERENCE	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
105	BREAK ROOM	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
106	MECHANICAL	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
107	ASSISTANT SUPERINTENDENT	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
108	SUPERINTENDENT	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
109	SUPERVISOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
110	CORRIDOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
111	WOMEN'S RESTROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
112	WOMEN'S LOCKERS	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
113	WOMEN'S SHOWERS	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
114	STORAGE	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
115	OFFICE	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
116	SUPERVISOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
117	MEN'S RESTROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
118	JANITOR'S CLOSET	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	GYP	12'-3"
119	MUDROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
120	MEN'S LOCKER ROOM	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
121	MECHANICAL / IT	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	EXP	17'-11"
122	CORRIDOR	CON	VCB	PNT	GYP	PNT	GYP	PNT	GYP	PNT	GYP	SAT	8'-0"
123	MEN'S SHOWERS	CON	VCB	FRP	GYP	FRP	GYP	FRP	GYP	FRP	GYP	SAT	8'-0"
124	WATER SHOP	CON	VCB		MTL		MTL		MTL		MTL	EXP	17'-11"
125	SIGN SHOP	CON	VCB		MTL		MTL		MTL		MTL	EXP	17'-11"
126	STORAGE	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	7'-10"
127	LARGE VEHICLE STORAGE	CON	VCB	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	EXP	30'-0"
128	EQUIPMENT STORAGE	CON	VCB	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	EXP	18'-6"
129	SERVICE BAY	CON	VCB	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	PNT	CMU / MTL	EXP	22'-0"
130	OFFICE	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	SAT	8'-0"
131	UNISEX RESTROOM	CON	VCB	FRP	CMU	FRP	CMU	FRP	CMU	FRP	CMU	SAT	8'-0"
132	UNISEX RESTROOM	CON	VCB	FRP	CMU	FRP	CMU	FRP	CMU	FRP	CMU	SAT	8'-0"
133	HALL	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	8'-0"
134	TOOLS	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	8'-0"
135	DRUM MATERIAL STORAGE	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	8'-0"
136	WASH BAY	CON	VCB	PNT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	EXP	22'-0"
201	MEZZANINE	CON	VCB			PNT	CMU	PNT	CMU	PNT	CMU	EXP	13'-6"
202	MEZZANINE	CON	VCB		MTL				MTL			EXP	13'-6"

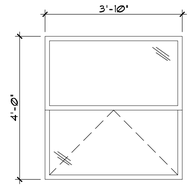
NOTES:
- SAT - SUSPENDED ACOUSTICAL TILE
- PNT - PAINT
- VCB - VINYL COVE BASE
- GYP - GYPSUM BOARD
- MTL - METAL LINER
- CON - CONCRETE, SEALED
- CMU - CONCRETE MASONRY UNIT
- EXP - EXPOSED, PAINTED
- FRP - FIBERGLASS REINFORCED PLASTIC

WINDOW SCHEDULE

WINDOW LETTER	WINDOW SIZE WIDTH	WINDOW SIZE HEIGHT	FRAME THICKNESS	TYPE	GLASS	MATERIAL	COLOR	REMARKS
A	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
B	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
C	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
D	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
E	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
F	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
G	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
H	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
I	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
J	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS
K	3'-10"	4'-0"	3/4"	1	¼" HP	AL	TBD	INSULATED, TINTED GLASS

REMARKS:
- VNL - VINYL
- HP - HIGH PERFORMANCE LOW 'E'
- DH - DOUBLE HUNG WINDOW
- TBS - TO BE SELECTED
- SL - SLIDING
- HM - HOLLOW METAL
- F - FIXED WINDOW

NOTES:
1. ALL WINDOWS ARE OPERABLE
2. ALL EXTERIOR WINDOWS TO INCLUDE 3M RIOT GLASS FILM



1

A A8.2 **WINDOW TYPES**
SCALE: 1/2"=1'-0"

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

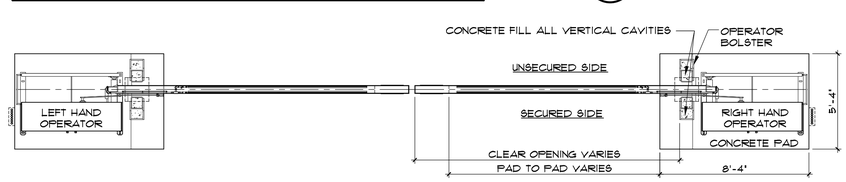
B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

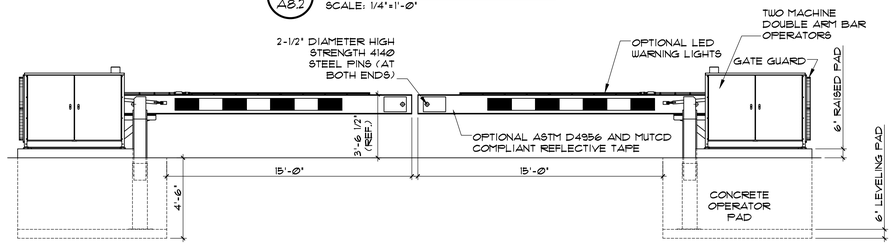
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

E. ALL CHAIN LINK GATES & FENCES SHALL BE VINYL COATED.

F. 1A CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF DOOR ACCESS CONTROL, DETECTION LOOPS, GATE CARD READER MOUNTING ARM, ETC.

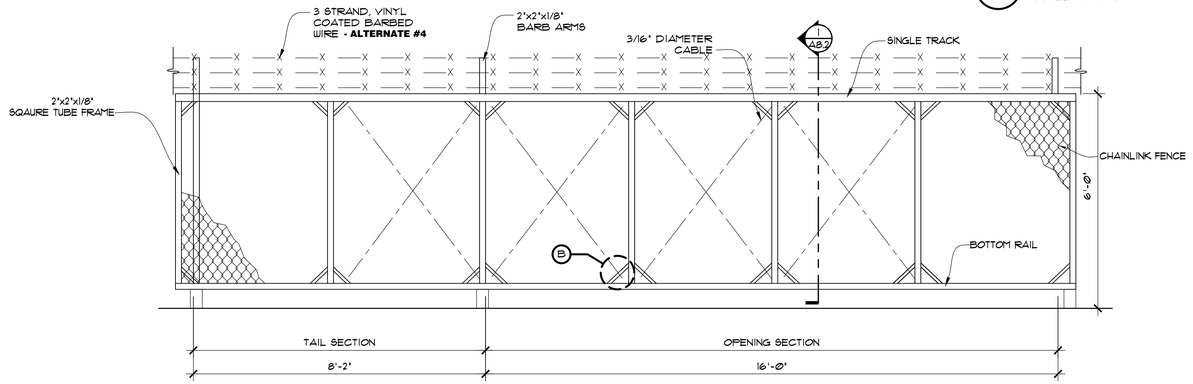


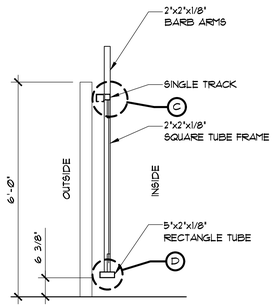
E A8.2 **ARMBAR GATE PLAN**
SCALE: 1/4"=1'-0"



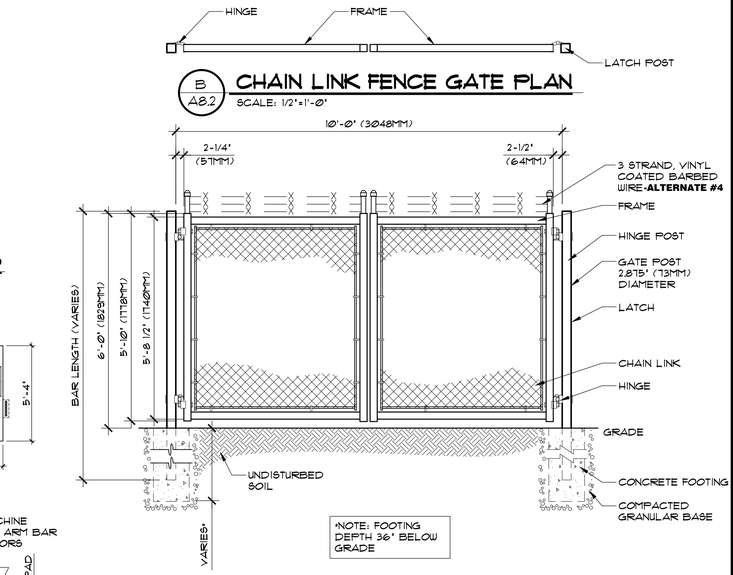
NOTES:
1) GATES ARE TYPICALLY DRAWN FROM THE PRIVATE SIDE, LOOKING OUT.
2) 16' WIDE ARM MINIMUM
3) CONTOURS AND CURBS WILL REQUIRE SHOP DRAWINGS FROM MANUFACTURER.
4) OPERATION OF ARMS TO SYNC TO OPEN AND CLOSE AT THE SAME TIME.

F A8.2 **ARMBAR GATE ELEVATION**
SCALE: 1/4"=1'-0"

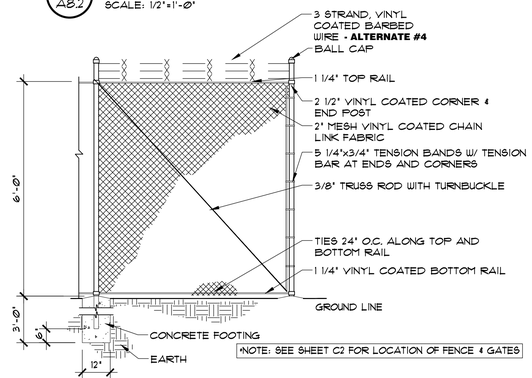




G A8.2 **MANUAL SLIDING & OPERATOR POWERED SLIDING ALUMINUM FENCE GATE ELEVATION**
SCALE: 1/2"=1'-0"

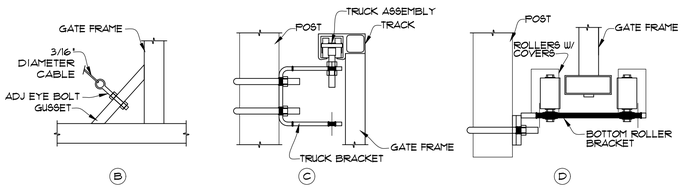


B A8.2 **CHAIN LINK FENCE GATE PLAN**
SCALE: 1/2"=1'-0"



C A8.2 **CHAIN LINK FENCE GATE ELEVATION**
SCALE: 1/2"=1'-0"

D A8.2 **TYPICAL CHAIN LINK FENCE ELEVATION**
SCALE: 1/2"=1'-0"



1 A8.2 **ALUMINUM FENCE GATE SECTION**
SCALE: 1/2"=1'-0"

2 A8.2 **ALUMINUM FENCE GATE DETAILS**
SCALE: 1/2"=1'-0"

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
840 NORTHWOOD BLVD
VANDALIA, OHIO 45377
DOOR, WINDOW & ROOM FINISH SCHEDULES

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A8.2
64 OF 112

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL										CEILING		HEIGHT
				NORTH		SOUTH		EAST		WEST						
				FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	MATERIAL	MATERIAL	MATERIAL	MATERIAL	
101	SALT BAY	ASP			CON / TOG		CON / TOG		CON / TOG		CON / TOG	CON / TOG	EXP			25'-0"

NOTES:
ASP - ASPHALT
CON - CONCRETE, SEALED
EXP - EXPOSED, PAINTED
TOG - T1G PRESSURE TREATED SIDING.

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B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

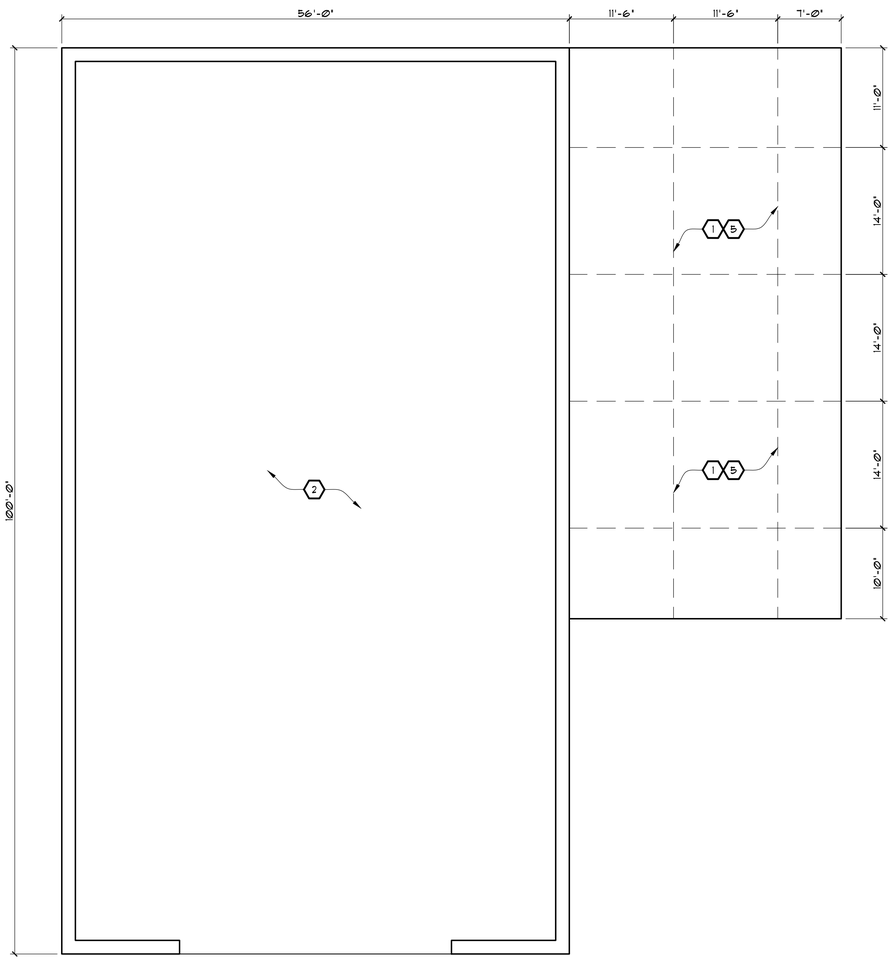
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

E. CONTRACTOR TO PROVIDE ALL SURFACE PREPARATION AND MOISTURE VERIFICATIONS AND FINISHES TO CONCRETE FOR APPLICATION AND INSTALLATION OF FINISHED FLOOR SURFACES ACCORDING TO MANUFACTURER. SPECIFICATIONS OVER INSTALLATION INSTRUCTIONS TO ENSURE WARRANTY FROM MANUFACTURER IS IN PLACE FOR THE OWNER FOLLOWING THE COMPLETION OF THE WORK.

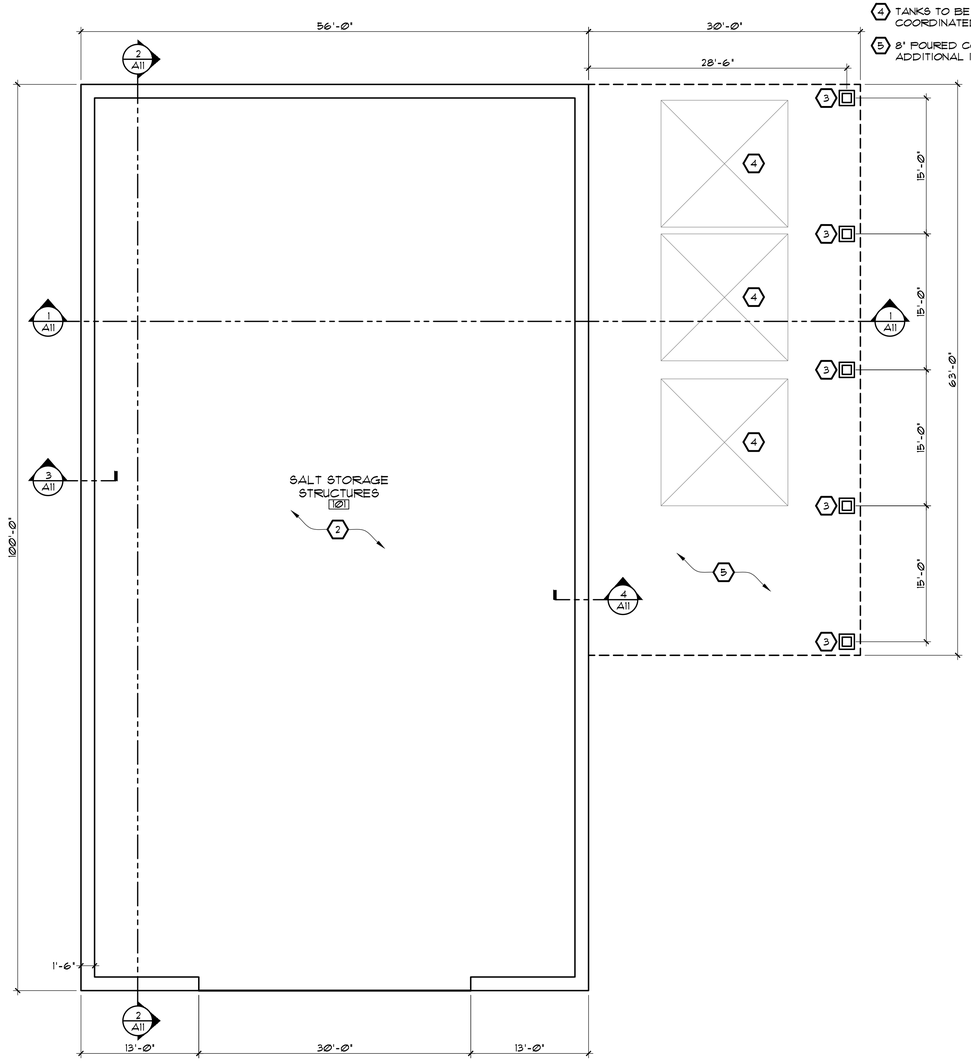
F. ALL CONNECTIONS BOLTS, WASHER, ANCHORS, ETC. WILL BE STAINLESS STEEL. THIS IS TO INCLUDE ALL CONNECTIONS ON TRUSS SYSTEM.

CODED NOTES:

1. ALL SAW CUTS SHALL BE REVIEWED AND APPROVED WITH ARCHITECT AND OWNER PRIOR TO THE DAY OF THE POUR.
2. NEW HEAVY DUTY ASPHALT PAVEMENT. SEE CIVIL FOR DETAILS.
3. EXTERIOR PRESSURE TREATED 12"x12" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.
4. TANKS TO BE PROVIDED BY OWNER, WIRING + SWITCH TO BE COORDINATED WITH THE CITY.
5. 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S3.1 FOR ADDITIONAL INFORMATION.



CONCRETE SAW CUT PLAN
SCALE: 1/8"=1'-0"



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

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REVISIONS:

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

SALT STORAGE STRUCTURE

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOOD BLVD
VANDALIA, OHIO 45377
SALT STORAGE STRUCTURE,
FLOOR & SAW CUT PLANS

vandalia ohio
small city, big opportunity.

PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A9
65 OF 112

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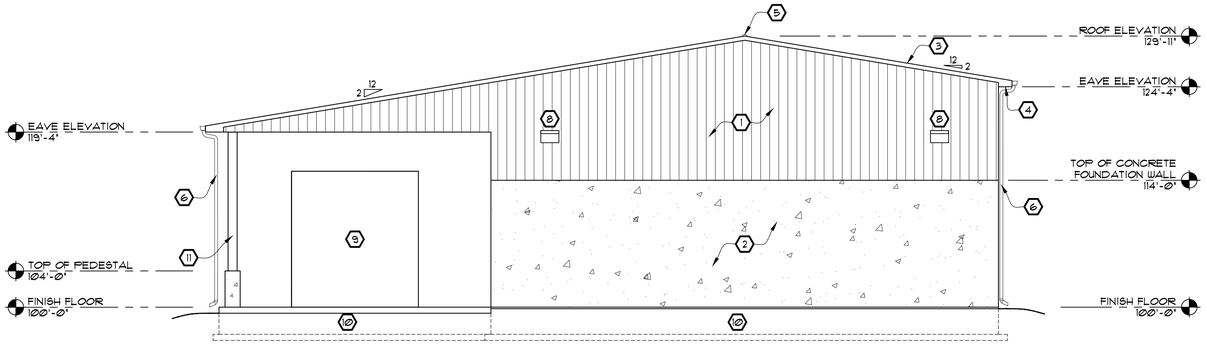
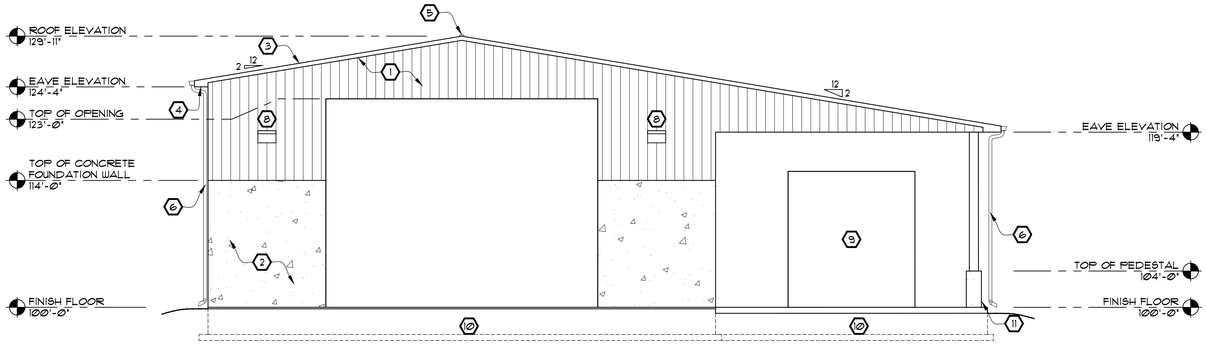
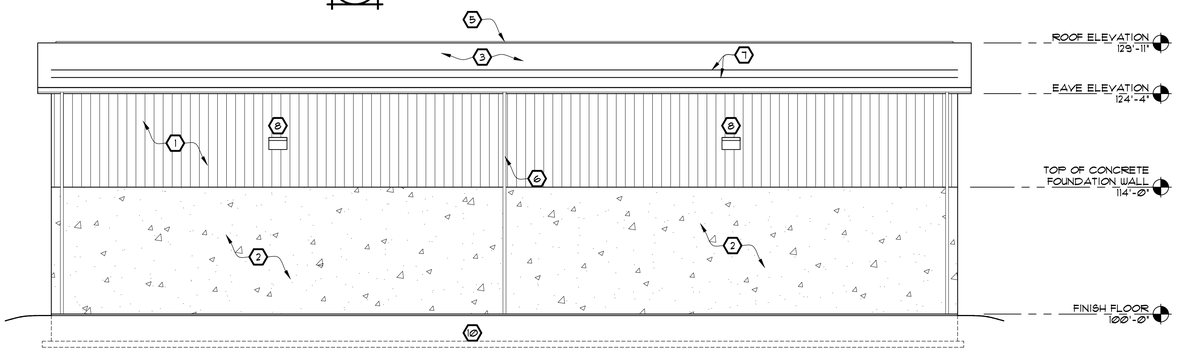


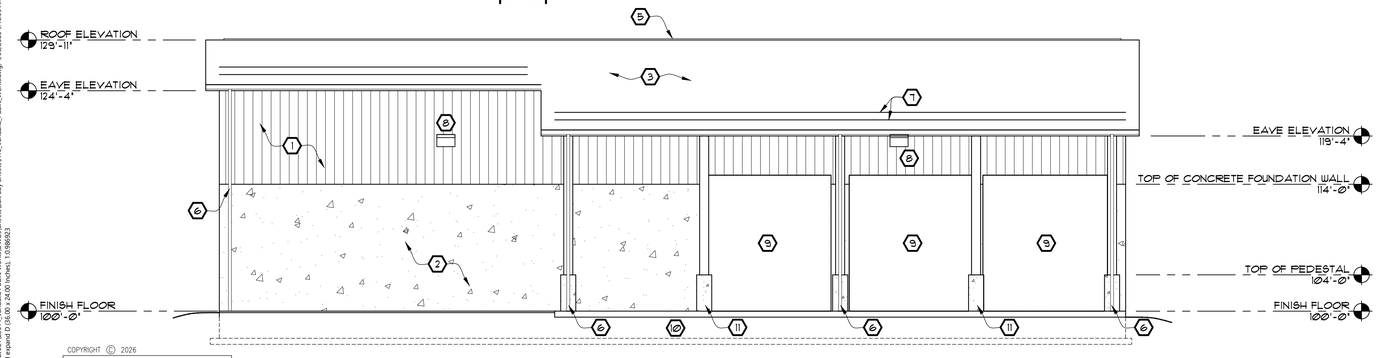
4 / A10 **WEST ELEVATION**
SCALE: 1/8"=1'-0"



5 / A10 **EAST ELEVATION**
SCALE: 1/8"=1'-0"



2 / A10 **NORTH ELEVATION**
SCALE: 1/8"=1'-0"



3 / A10 **SOUTH ELEVATION**
SCALE: 1/8"=1'-0"

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GENERAL NOTES:

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C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

F. ALL CONNECTIONS BOLTS, WASHER, ANCHORS, ETC. WILL BE STAINLESS STEEL. THIS IS TO INCLUDE ALL CONNECTIONS ON TRUSS SYSTEM.

CODED NOTES:

1. INSTALL EXPOSED FASTENER SIDING & TRIM OVER 5/8" EXTERIOR OSB TO MATCH MAIN BUILDING.
2. 18"x14'-0" CONCRETE RETAINING WALL. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.
3. EXPOSED METAL FASTENER ROOF.
4. INSTALL STAINLESS STEAL SOFFIT WITH FLAT PROFILE TO UNDERSIDE OF STRUCTURE. COLOR CHOSEN BY ARCHITECT.
5. CONTINUOUS VENTED RIDGE. CAP ENDS PER MANUFACTURER'S INSTRUCTIONS.
6. 6" CONTINUOUS ALUMINUM GUTTERS AND DOWN SPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWN SPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWN SPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. DOWNSPOUTS SHOULD BE EXTENDED 6' BELOW THE FINISHED FLOOR SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
7. INSTALL CONTINUOUS METAL ICE GUARD AT SPECIFIED LOCATIONS.
8. (16A) INSTALL EXTERIOR LIGHTING FIXTURE. SEE SHEET ELECTRICAL DRAWINGS.
9. TANKS TO BE PROVIDED BY OWNER, WIRING + SWITCH TO BE COORDINATED WITH THE CITY
10. CONCRETE FOUNDATION. SEE STRUCTURAL DRAWINGS.
11. EXTERIOR PRESSURE TREATED 12"x12" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

SALT STORAGE STRUCTURE

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REVISIONS:

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SALT STORAGE STRUCTURE,
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PROJECT NO: 23014
DRAWN BY:
DATE: 05/18/2026
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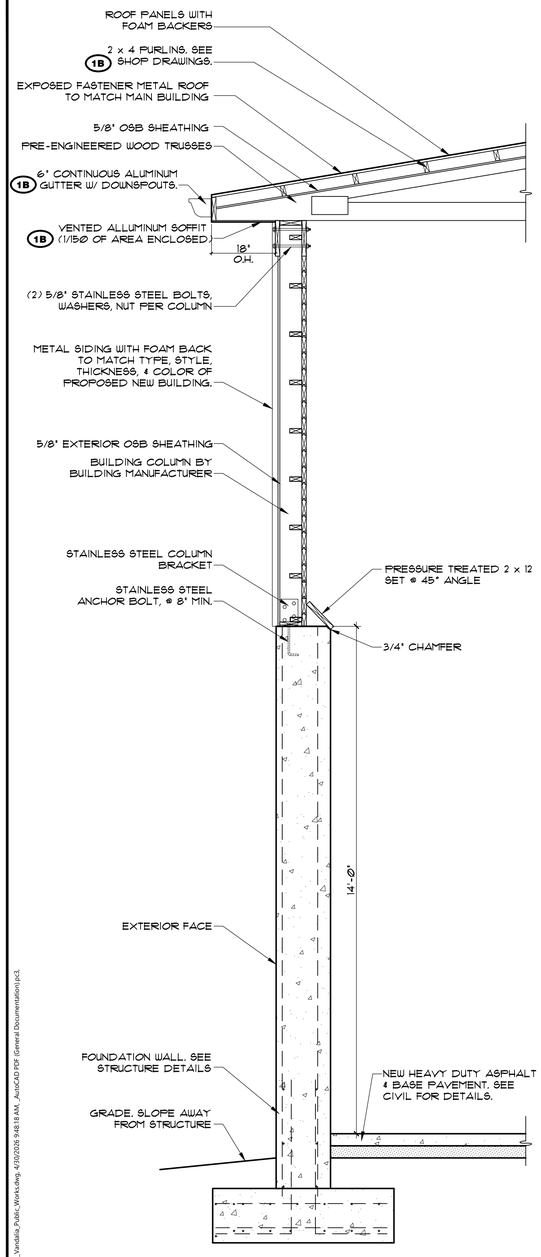
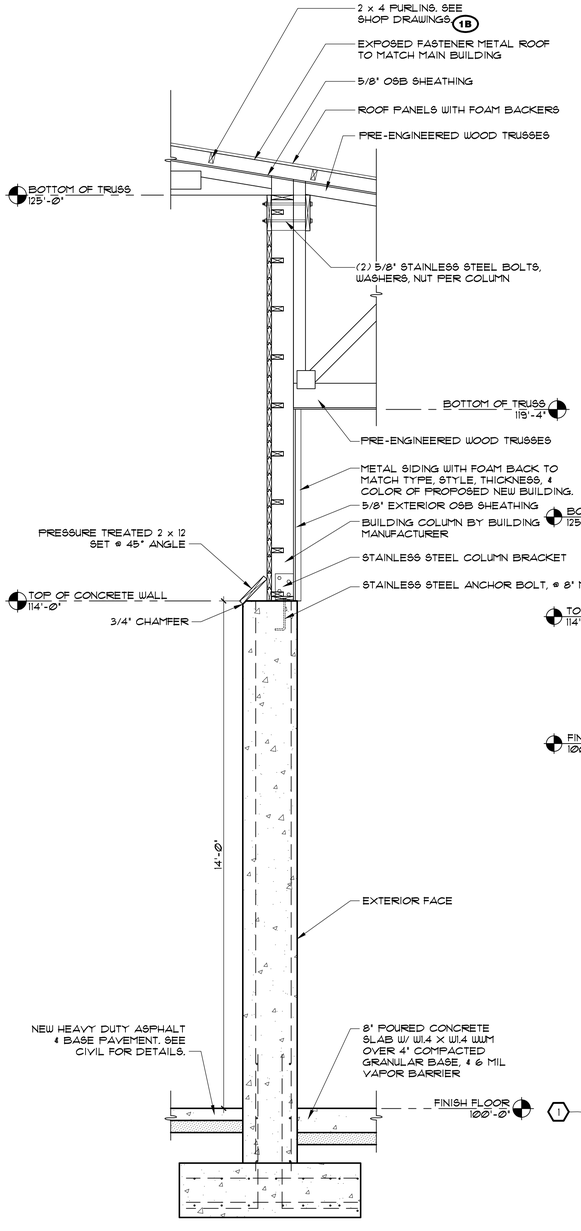
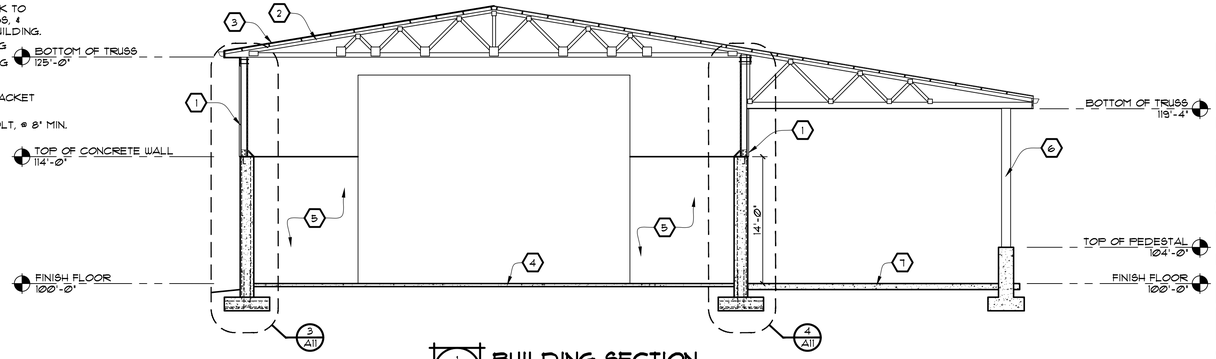
A10
66 OF 112



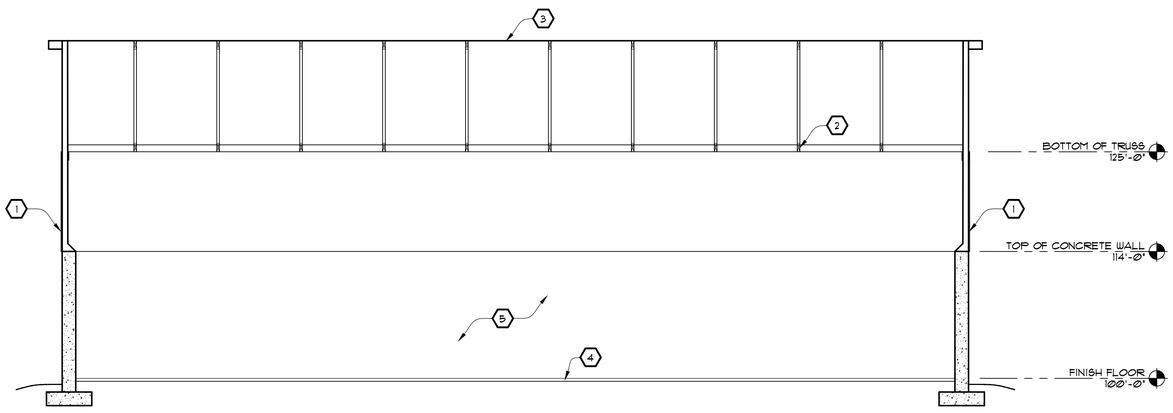
3 A11 **WALL SECTION**
SCALE: 1/2"=1'-0"



4 A11 **WALL SECTION**
SCALE: 1/2"=1'-0"



1 A11 **BUILDING SECTION**
SCALE: 1/8"=1'-0"



2 A11 **BUILDING SECTION**
SCALE: 1/8"=1'-0"

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D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

F. ALL CONNECTIONS BOLTS, WASHER, ANCHORS, ETC. WILL BE STAINLESS STEEL. THIS IS TO INCLUDE ALL CONNECTIONS ON TRUSS SYSTEM.

CODED NOTES:

1B 1 INSTALL EXPOSED FASTENER SIDING & TRIM OVER 5/8" EXTERIOR OSB TO MATCH MAIN BUILDING.

1B 2 PRE-ENGINEERED WOOD TRUSS, SUBMIT MANUFACTURER SHOP DRAWINGS TO LOCAL BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.

3 EXPOSED FASTENER METAL ROOF.

4 NEW HEAVY DUTY ASPHALT PAVEMENT. SEE CIVIL FOR DETAILS.

5 18"x14'-0" CONCRETE RETAINING WALL. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.

6 EXTERIOR PRESSURE TREATED 12"x12" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S3.1 FOR DETAILS.

7 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S3.1 FOR ADDITIONAL INFORMATION.

SALT STORAGE STRUCTURE

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

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8909235 EXP. 12/31/26

vandalia small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
SALT STORAGE STRUCTURE, BUILDING & WALL SECTIONS

PROJECT NO:	23014
DRAWN BY:	
DATE:	05/18/2026
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A11
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ARCH expand D (36.00 x 24.00 Inches), 1.0398823

REFLECTED CEILING SYMBOLS

CL4	8' VAPORTIGHT LINEAR LED STRIP. HANGING FROM STRUCTURE.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

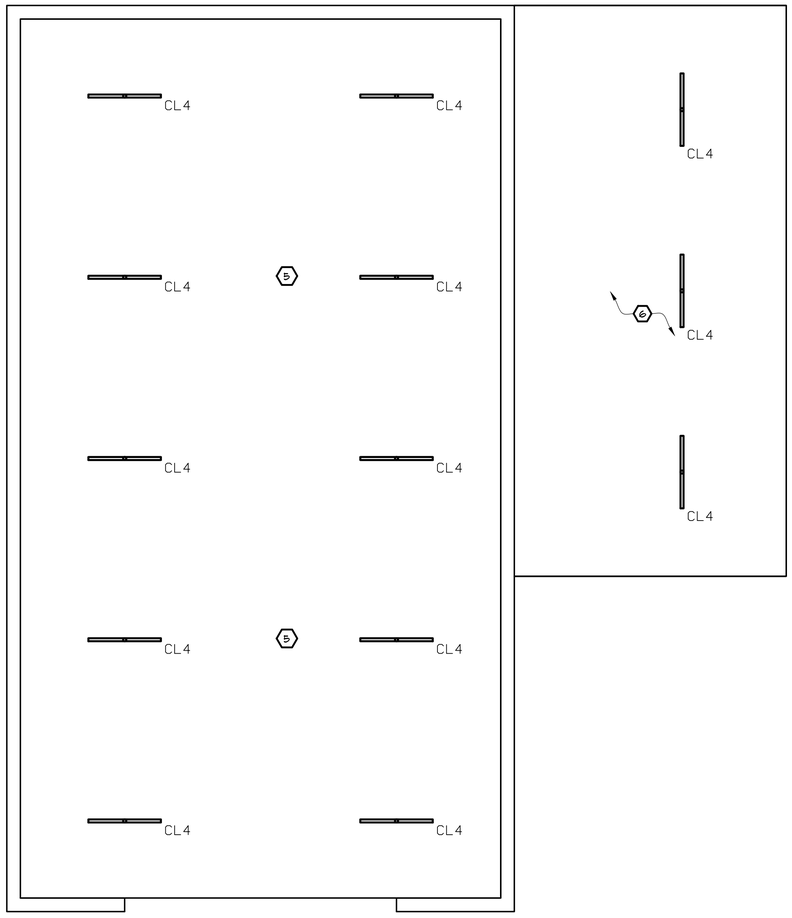
C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

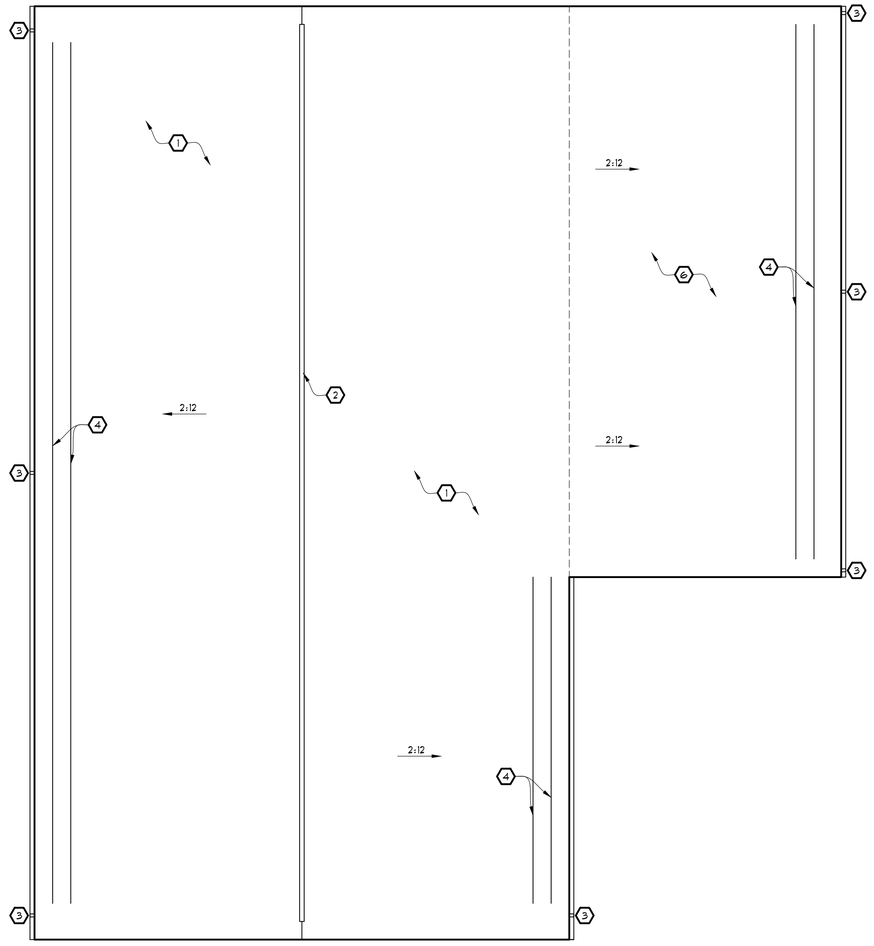
E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

CODED NOTES:

1. EXPOSED FASTENER METAL ROOF.
2. CONTINUOUS VENTED RIDGE. CAP ENDS PER MANUFACTURER'S INSTRUCTIONS.
3. 6" CONTINUOUS ALUMINUM GUTTERS AND DOWN SPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWN SPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWN SPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. DOWNSPOUTS SHOULD BE EXTENDED 6' BELOW THE FINISHED FLOOR. SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
4. INSTALL CONTINUOUS METAL ICE GUARD AT SPECIFIED LOCATIONS.
16A 5. INSTALL SURFACE MOUNTED LIGHT FIXTURES. SEE ELECTRICAL PLAN.
6. OVERHANG TANK STORAGE AREA.



REFLECTIVE CEILING PLAN
SCALE: 1/8"=1'-0"



1 A12 ROOF PLAN
SCALE: 1/8"=1'-0"

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SALT STORAGE STRUCTURE

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
SALT STORAGE STRUCTURE,
REFL. CEILING & ROOF PLANS

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ARCH expand D (36.00 x 24.00 Inches), 1:1/96923

REFLECTED CEILING SYMBOLS

CL6	4' ENCLOSED & GASKETED LINEAR LED STRIP, HANGING FROM STRUCTURE.
NL	4' LED STRIP NITE LIGHT FIXTURE, HANGING FROM STRUCTURE

GENERAL NOTES:

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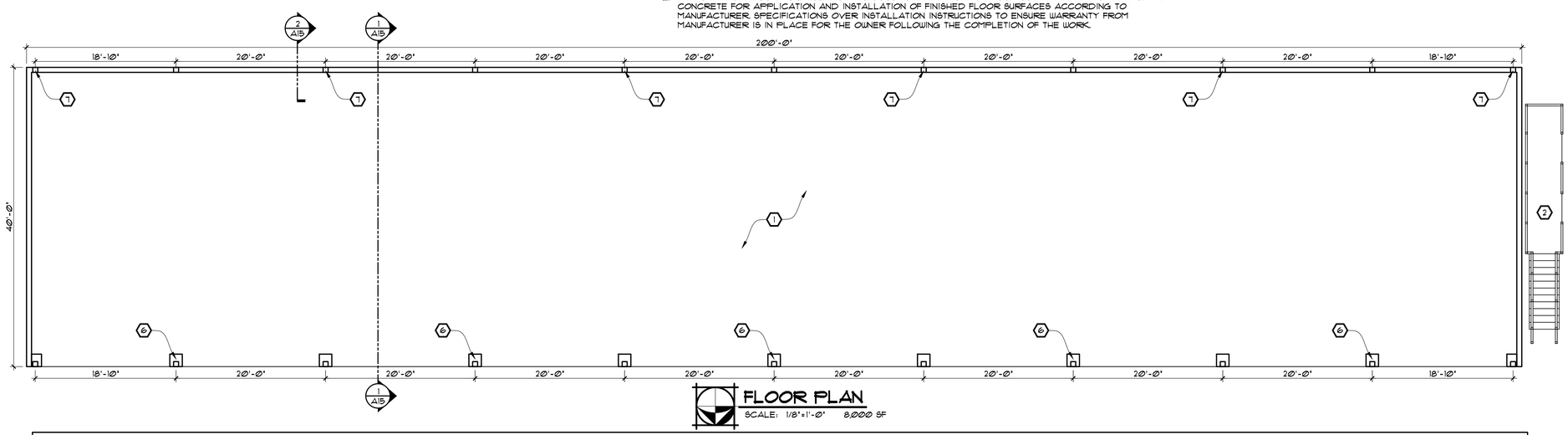
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

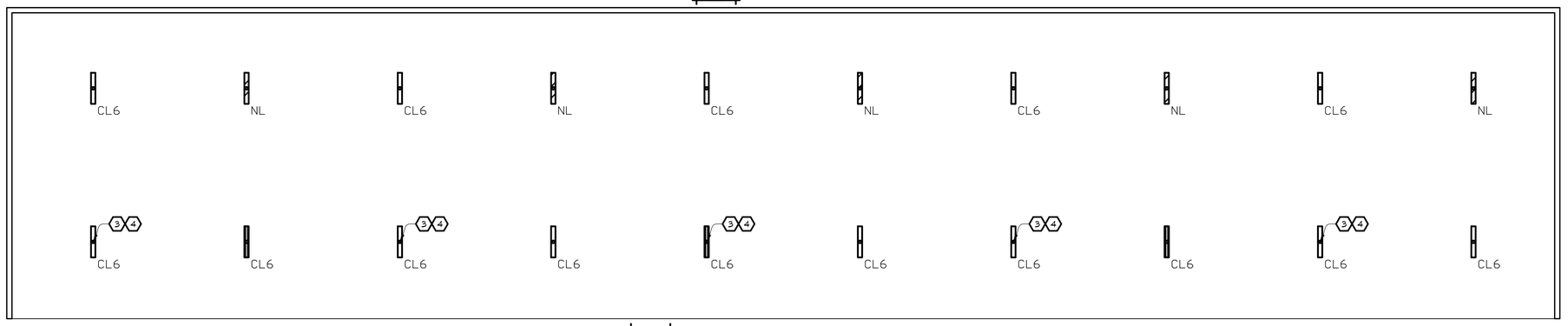
E. CONTRACTOR TO PROVIDE ALL SURFACE PREPARATION AND MOISTURE VERIFICATIONS AND FINISHES TO CONCRETE FOR APPLICATION AND INSTALLATION OF FINISHED FLOOR SURFACES ACCORDING TO MANUFACTURER SPECIFICATIONS OVER INSTALLATION INSTRUCTIONS TO ENSURE WARRANTY FROM MANUFACTURER IS IN PLACE FOR THE OWNER FOLLOWING THE COMPLETION OF THE WORK.

CODED NOTES:

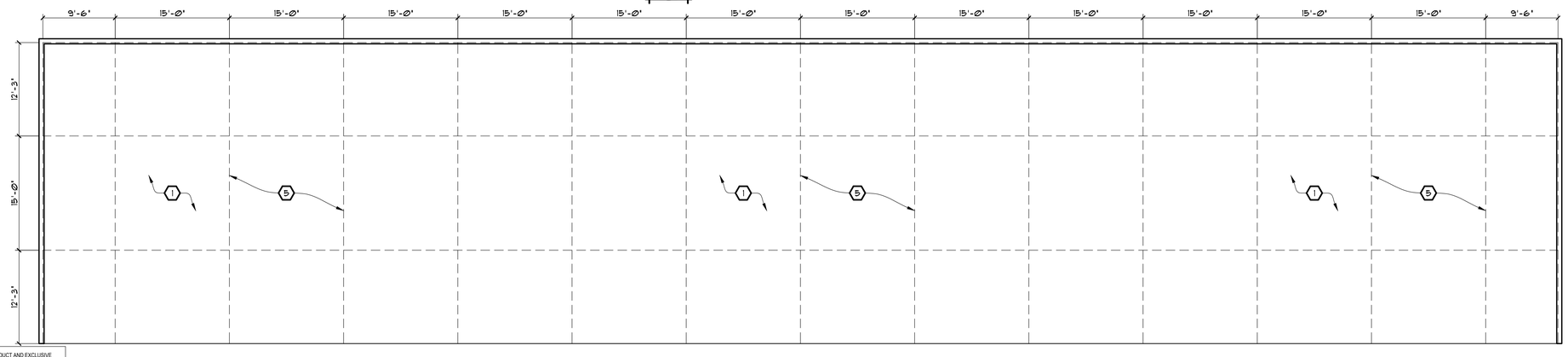
1. 4" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S4.1 FOR ADDITIONAL INFORMATION.
2. CATWALK PLATFORM. SEE SHEET A14 FOR MORE DETAILS.
3. INSTALL CEILING HUNG LIGHTS. SEE ELECTRICAL DRAWINGS. (16A)
4. OPEN CEILING STRUCTURE.
5. ALL SAW CUTS SHALL BE REVIEWED AND APPROVED WITH ARCHITECT AND OWNER PRIOR TO THE DAY OF THE POUR.
6. EXTERIOR PRESSURE TREATED 8"x8" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S4.1 FOR DETAILS.
7. EXTERIOR PRESSURE TREATED 8"x8" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION WALL. SEE STRUCTURAL SHEET S4.1 FOR DETAILS.



FLOOR PLAN
SCALE: 1/8"=1'-0" 8,000 SF



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



SAW CUT PLAN
SCALE: 1/8"=1'-0"

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COLD STORAGE STRUCTURE

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377

COLD STORAGE STRUCTURE, FLOOR, REFL. CEILING, & SAW CUT PLANS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
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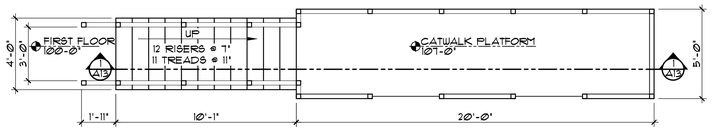
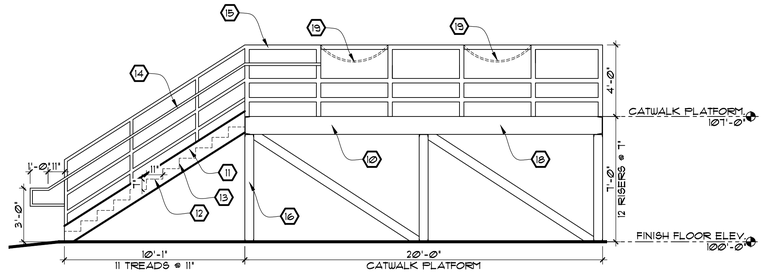


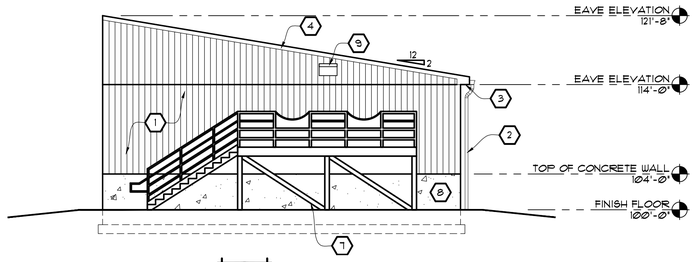
STAIR PLAN - CATWALK PLATFORM

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



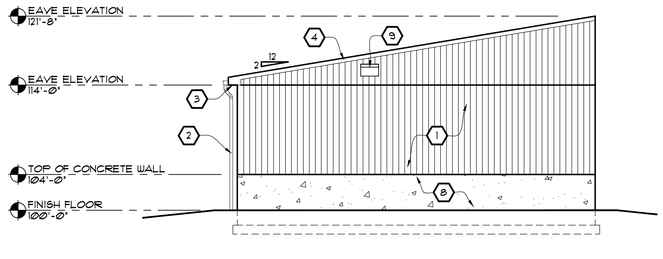
1 / A14 STEEL STAIR SECTION - CATWALK PLATFORM

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



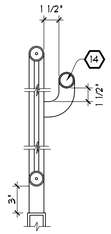
2 / A14 WEST ELEVATION

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



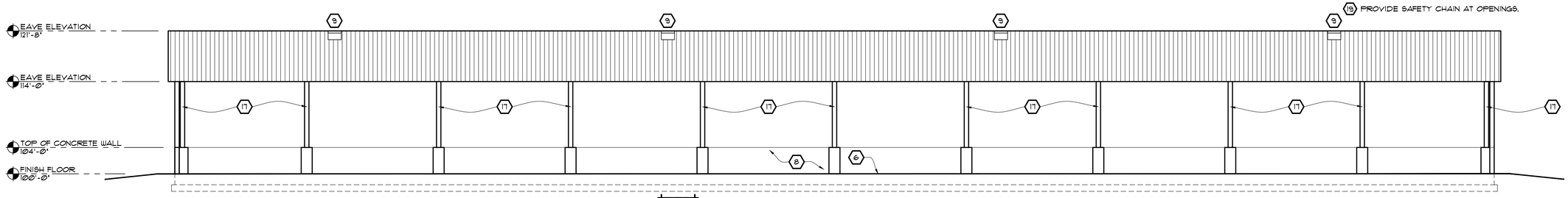
3 / A14 EAST ELEVATION

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



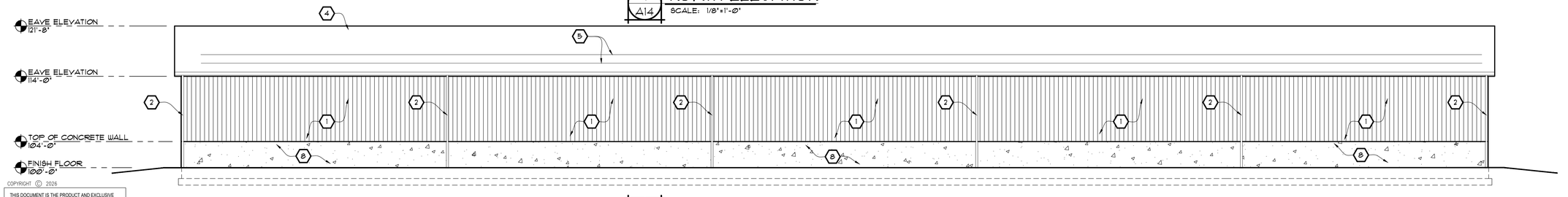
A / A14 STAIR GUARDRAIL DETAIL

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



4 / A14 NORTH ELEVATION

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



5 / A14 SOUTH ELEVATION

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

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B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

F. STAIR MANUFACTURER SHALL PROVIDE SHOP DRAWINGS AS REQUIRED PER THE SPECIFICATIONS. CONTRACTOR MUST COORDINATE ALL OPENINGS, DIMENSIONS, WALL LOCATIONS, SUPPORTS, BEAM POCKETS, ETC. ALL STRUCTURAL AND STEEL COMPONENTS REQUIRED ARE TO BE SUPPLIED BY THE STAIR MANUFACTURER AND INSTALLER. DESIGN STAIR SYSTEM TO MEET ALL APPLICABLE BUILDING CODES.

CODED NOTES:

1. INSTALL STEEL SIDING. COLOR TO BE CHOSEN BY ARCHITECT.
2. 6" CONTINUOUS ALUMINUM GUTTERS & DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.

2A 3. INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE TO UNDERSIDE OF STRUCTURE. COLOR CHOSEN BY ARCHITECT.

4. INSTALL EXPOSED FASTENER METAL ROOF.
5. CONTINUOUS METAL SNOWICE GUARD AT SPECIFIED LOCATIONS.
6. 4" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S4.1 FOR ADDITIONAL INFORMATION.
7. CATWALK PLATFORM. STAIR MANUFACTURER SHALL PROVIDE SHOP DRAWINGS AS REQUIRED PER THE SPECIFICATIONS. SEE CATWALK PLATFORM FOR DETAILS.
8. 8" CONCRETE FOUNDATION WALL. SEE SHEET S4.1 FOR DETAILS.
9. EXTERIOR LIGHTING. SEE ELECTORAL PLANS FOR DETAILS.
10. CATWALK PLATFORM LANDING. PROVIDE AND INSTALL ACCORDING TO MANUFACTURER'S SHOP DRAWINGS. TOP SURFACE SHALL HAVE A SAFETY GRIT SURFACE. BOTTOM SHALL BE PAINTED.
11. METAL STAIR STRINGER(S). PROVIDE AND INSTALL ACCORDING TO MANUFACTURER'S SHOP DRAWINGS. PAINT.
12. METAL STAIR TREAD. TREAD 11". STAIR MANUFACTURER SHALL DESIGN.
13. METAL STAIR RISER. RISER 7". STAIR MANUFACTURER SHALL DESIGN.
14. 1 1/2" DIAMETER STEEL HANDRAIL, PAINTED. RAILING SHALL BE CONTINUOUS. SEE DETAIL A/A14. RETURN HANDRAIL TO WALL OR RAILING.
15. PROVIDE ALL STEEL STRUCTURAL SUPPORTS SO THAT ALL HANDRAILS MEET ALL CODE REQUIRED LATERAL LOADING REQUIREMENTS.
16. SUPPORT COLUMN. PAINTED.
17. EXTERIOR PRESSURE TREATED 8"x8" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S4.1 FOR DETAILS.
18. STEEL, PAINTED.
19. PROVIDE SAFETY CHAIN AT OPENINGS.

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COLD STORAGE STRUCTURE

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810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
COLD STORAGE STRUCTURE, EXT.
ELEVATIONS & CATWALK PLATFORM

PROJECT NO.: 23014
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10 OF 112

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL										CEILING		HEIGHT
				NORTH		SOUTH		EAST		WEST						
				FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	MATERIAL		
201	COLD STORAGE	CON						CON	TOG	CON	TOG	CON	TOG	EXP		14'-0"

NOTES:
VCB - VINYL COVE BASE
CON - CONCRETE, SEALED
EXP - EXPOSED, PAINTED
TOG - T4G PRESSURE TREATED SIDING.

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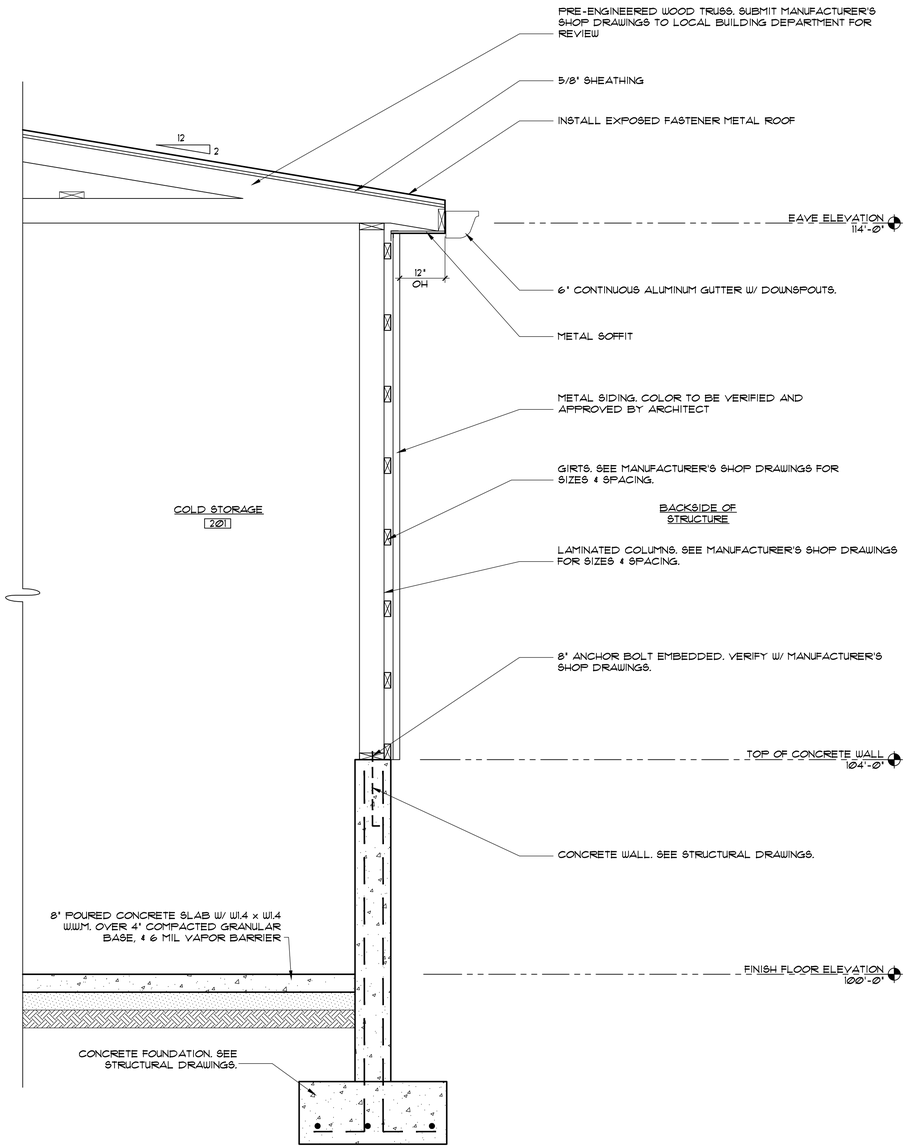
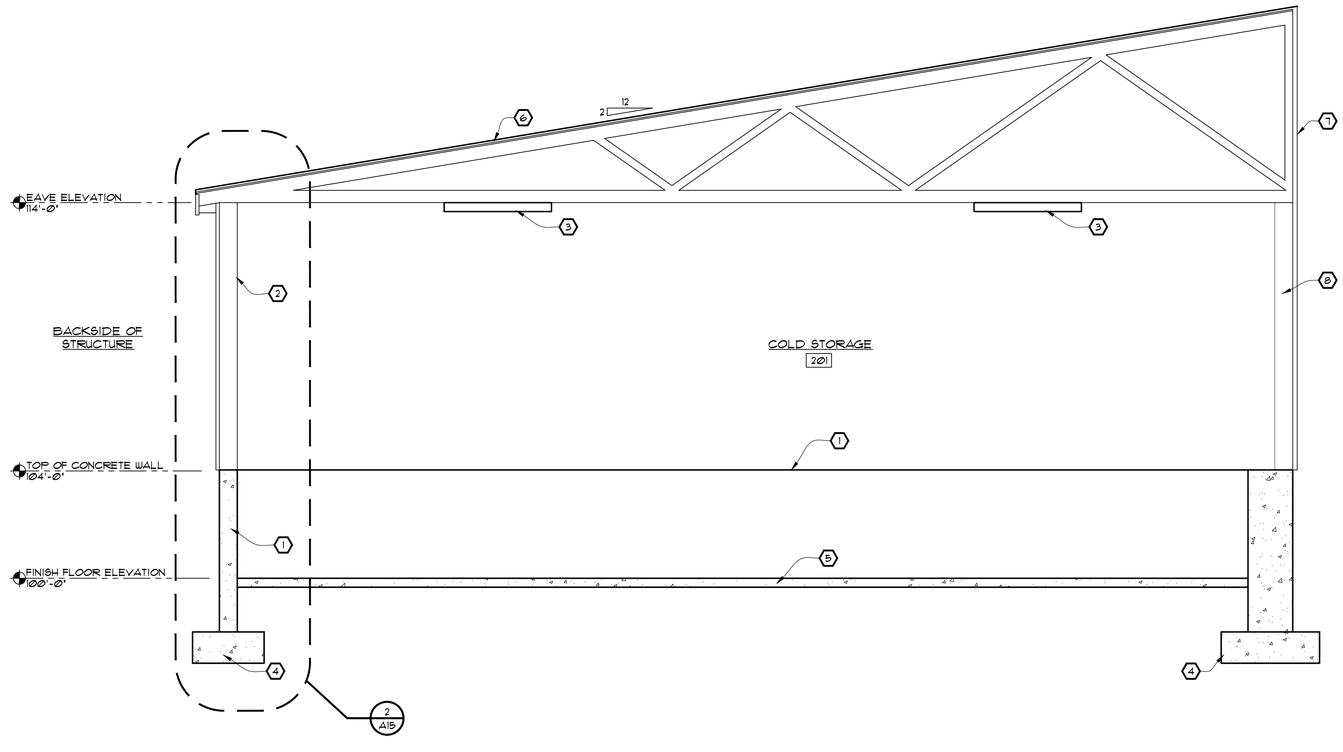
CODED NOTES:

1. CONCRETE FOUNDATION WALL TO EXTEND 4'-0" ABOVE FINISH FLOOR ELEVATION. SEE STRUCTURAL SHEET S4.1 FOR DETAILS.
2. 2x LAMINATED COLUMNS. SEE MANUFACTURER'S SHOP DRAWINGS FOR SIZES & SPACING.
3. PROVIDE & INSTALL SURFACE MOUNTED LIGHTS. SEE ELECTRICAL DRAWINGS. (16A)
4. POURED CONCRETE FOOTER. SEE STRUCTURAL SHEET S4.1 FOR DETAILS.
5. 4" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S4.1 FOR ADDITIONAL INFORMATION.
6. INSTALL EXPOSED FASTENER METAL ROOF.
7. METAL SIDING. COLOR TO BE VERIFIED AND APPROVED BY ARCHITECT
8. EXTERIOR PRESSURE TREATED 12"x12" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S4.1 FOR DETAILS.



2 / A15 WALL SECTION
SCALE: 3/4"=1'-0"



1 / A15 BUILDING SECTION
SCALE: 3/8"=1'-0"

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COLD STORAGE STRUCTURE

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COLD STORAGE STRUCTURE, BUILDING & WALL SECTIONS

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GENERAL NOTES:

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B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

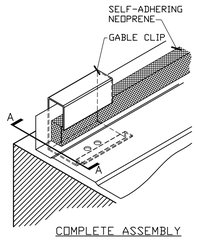
C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

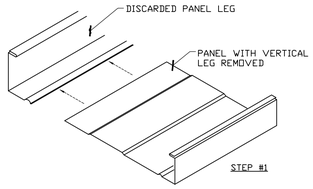
E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

CODED NOTES:

1. STANDARD GUTTERS AND DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. VERIFY W/ ARCHITECT. CONNECTION AND BOOT BY SITE CONTRACTOR.
2. INSTALL EXPOSED FASTENER METAL ROOF.
3. INSTALL CONTINUOUS METAL ICE GUARDS TO MATCH ROOF COLOR AND AS RECOMMENDED WITH ROOF SYSTEM.
4. DOWNSPOUT LOCATION. DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. VERIFY WITH ARCHITECT. CONNECTION AND BOOT BY SITE CONTRACTOR.

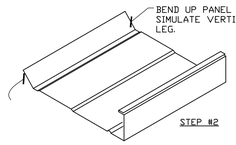


COMPLETE ASSEMBLY

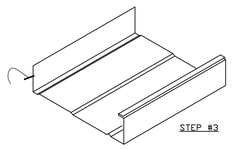


STEP #1

BEND PANEL PAN:
- MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- IN ADDITION TO THE NEW PANEL WIDTH MEASUREMENT, IT IS CRUCIAL TO ADD AN EXTRA 2" OF PANEL PAN TO YOUR OVERALL MEASUREMENT. THIS WILL BE BENT UP VERTICALLY TO SIMULATE A VERTICAL PANEL LEG.
- CUT OFF AND DISCARD VERTICAL PANEL LEG AND EXCESS PANEL PAN AS REQUIRED.
- USING HAND TOOLS, BEGIN BENDING PANEL PAN VERTICALLY THE FULL LENGTH OF THE PANEL.
- IT MAY TAKE SEVERAL PASSES TO BEND PANEL PAN TO A FULL 90°.
- HINT: MEASURE TWICE, CUT ONCE!



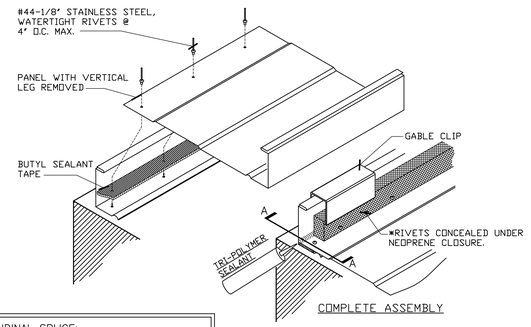
STEP #2



STEP #3

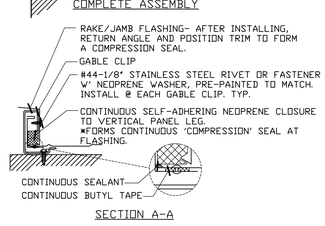
2 / A16 PANEL ADJUSTMENT DETAIL BENDING PANEL PAN

SCALE: N.T.S.



COMPLETE ASSEMBLY

LONGITUDINAL SPLICE:
- MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- ERECTOR TO CUT OFF THE VERTICAL PANEL LEG LEAVING APPROXIMATELY 2" OF PANEL PAN LEFT ATTACHED.
- FROM THE MAIN PANEL, CUT AND DISCARD EXCESS PANEL AS REQUIRED TO ADJUST WIDTH.
- ADHERE CONTINUOUS BUTYL SEALANT TAPE TO THE BASE OF THE VERTICAL PANEL LEG AND RE-ATTACH USING #44-1/8" STAINLESS STEEL RIVETS @ 4" o.c. max. DOWN THE ENTIRE LENGTH OF THE PANEL.
- APPLY A CONTINUOUS BEAD OF TRIPOLYMER SEALANT TO THE CORNER GROOVE OF THE PANEL SPLICE.
- HINT: MEASURE TWICE, CUT ONCE!

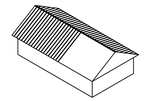


SECTION A-A

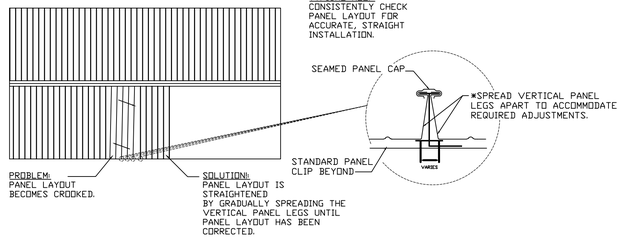
1 / A16 PANEL ADJUSTMENT DETAIL LONGITUDINAL SPLICE

SCALE: N.T.S.

TAPERED PANELS:
*ALSO A COMMON TECHNIQUE FOR ADJUSTING TAPERED PANELS AS INSTALLED AROUND A RADIUS.



TYPICAL ROOF
CONSISTENTLY CHECK PANEL LAYOUT FOR ACCURATE, STRAIGHT INSTALLATION.

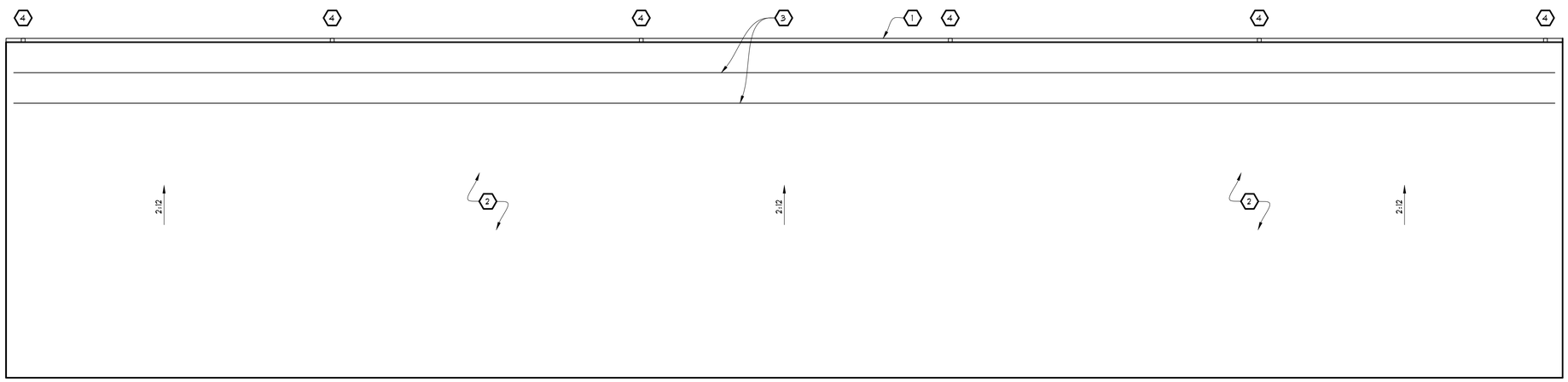


PROBLEM:
PANEL LAYOUT BECOMES CROOKED.

SOLUTION:
PANEL LAYOUT IS STRAIGHTENED BY GRADUALLY SPREADING THE VERTICAL PANEL LEGS UNTIL PANEL LAYOUT HAS BEEN CORRECTED.

3 / A16 PANEL ADJUSTMENT DETAIL VERTICAL LEG SPREAD

SCALE: N.T.S.



ROOF PLAN

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

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

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CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

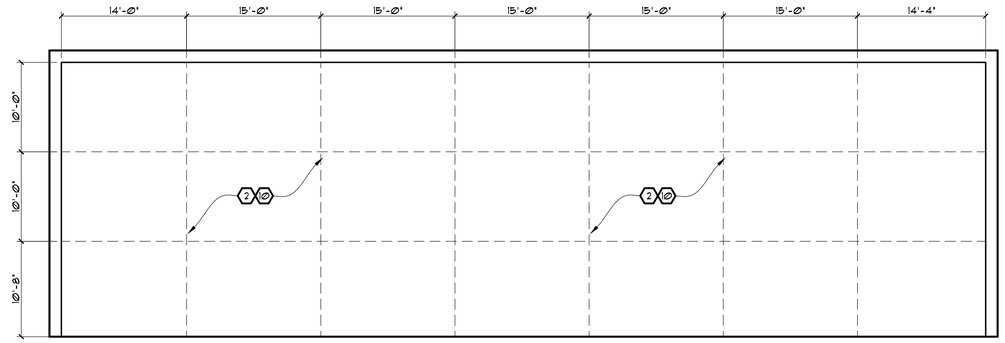
vandalia ohio
small city. big opportunity.

A NEW PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
840 NORTHWOODS BLVD
VANDALIA, OHIO 45377
COLD STORAGE STRUCTURE,
ROOF PLAN & DETAILS

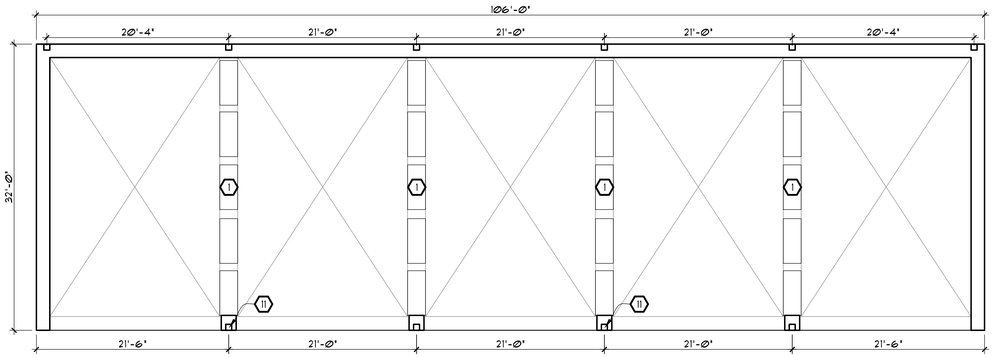
COLD STORAGE STRUCTURE

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

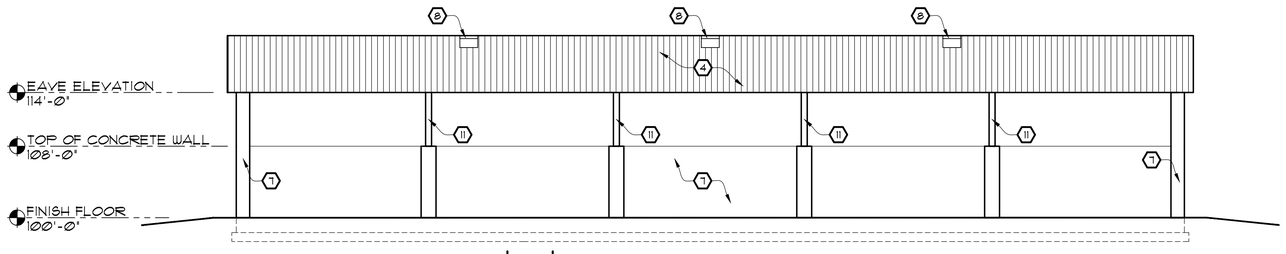
A16
12 OF 112



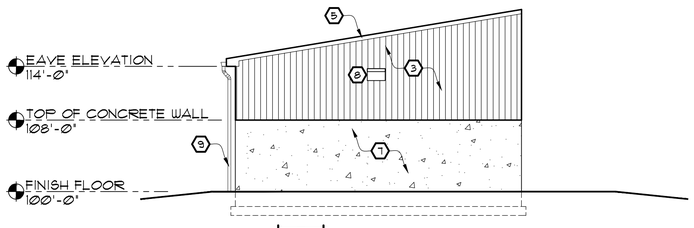
SAW CUT PLAN
SCALE: 1/8"=1'-0"



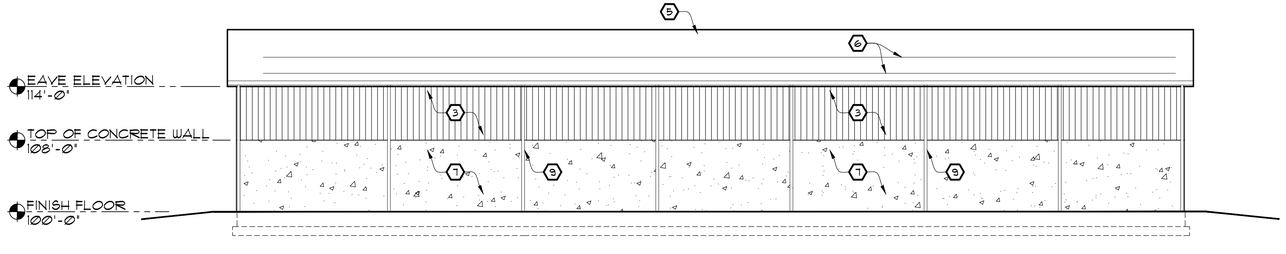
FLOOR PLAN
SCALE: 1/8"=1'-0" 3,392 SF



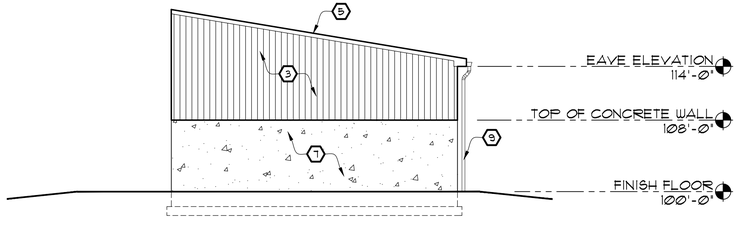
1 A17 EAST ELEVATION
SCALE: 1/8"=1'-0"



2 A17 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



3 A17 WEST ELEVATION
SCALE: 1/16"=1'-0"



4 A17 NORTH ELEVATION
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.

E. CONTRACTOR TO PROVIDE ALL SURFACE PREPARATION AND MOISTURE VERIFICATIONS AND FINISHES TO CONCRETE FOR APPLICATION AND INSTALLATION OF FINISHED FLOOR SURFACES ACCORDING TO MANUFACTURER SPECIFICATIONS OVER INSTALLATION INSTRUCTIONS TO ENSURE WARRANTY FROM MANUFACTURER IS IN PLACE FOR THE OWNER FOLLOWING THE COMPLETION OF THE WORK.

CODED NOTES:

1. DEAD MAN BLOCKS (FOR DIVIDER WALLS) PROVIDED BY OWNER.
2. 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S5.1 FOR ADDITIONAL INFORMATION.
3. INSTALL STEEL SIDING. COLOR TO BE CHOSEN BY ARCHITECT.
4. INSTALL ALUMINUM SOFFIT/CEILINGS WITH FLAT PROFILE TO UNDERSIDE OF STRUCTURE. COLOR CHOSEN BY ARCHITECT.
5. INSTALL EXPOSED FASTENER METAL ROOF.
6. CONTINUOUS METAL SNOW/ICE GUARD AT SPECIFIED LOCATIONS.
7. CONCRETE FOUNDATION WALL. SEE S5.1 FOR DETAILS.
8. EXTERIOR LIGHTING. SEE ELECTORAL PLANS FOR DETAILS. (16A)
9. 6" CONTINUOUS ALUMINUM GUTTERS & DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
10. ALL SAW CUTS SHALL BE REVIEWED AND APPROVED WITH ARCHITECT AND OWNER PRIOR TO THE DAY OF THE POUR.
11. EXTERIOR PRESSURE TREATED 8"x8" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S5.1 FOR DETAILS.

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MATERIAL STORAGE STRUCTURE

WDC GROUP
23 South Center Street
Springfield, Ohio 45502
(937) 325-9991
info@wdc-group.com

REVISIONS:

STATE OF OHIO
CHRISTOPHER R. WIDENER
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

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A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
MATERIAL STOR. STRUCTURE, EXT. ELEV., FLOOR, & SAW CUT PLANS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

A17
73 OF 112

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

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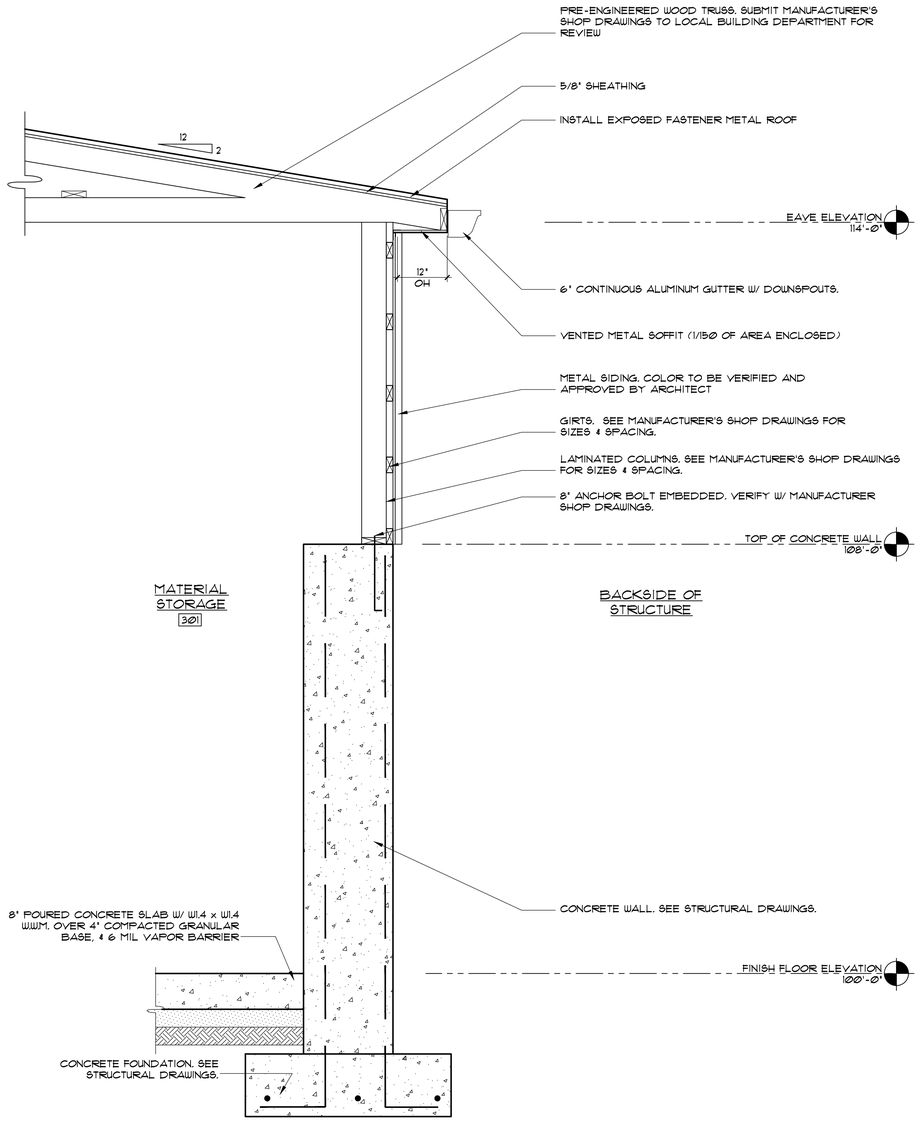
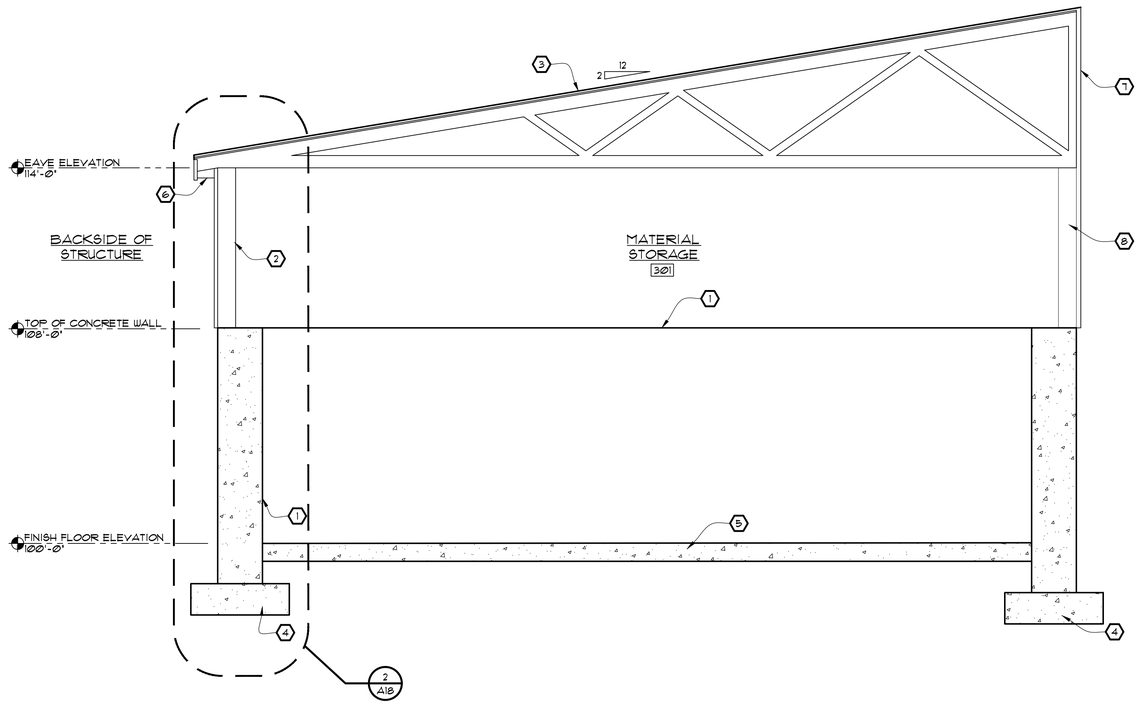
CODED NOTES:

1. CONCRETE FOUNDATION WALL TO EXTEND 8'-0" ABOVE FINISH FLOOR ELEVATION. SEE STRUCTURAL SHEET S5.1 FOR DETAILS.
2. STEEL FRAME BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS TO BE SUBMITTED TO LOCAL BUILDING DEPARTMENT FOR REVIEW. PAINT ALL EXPOSED STEEL.
3. INSTALL EXPOSED FASTENER METAL ROOF.
4. POURED CONCRETE FOOTER. SEE STRUCTURAL DRAWINGS FOR DETAILS.
5. 8" POURED CONCRETE SLAB. SEE STRUCTURAL SHEET S5.1 FOR ADDITIONAL INFORMATION.
6. VENTED METAL SOFFIT (1/150 OF AREA ENCLOSED).
7. METAL SIDING. COLOR TO BE VERIFIED AND APPROVED BY ARCHITECT.
8. EXTERIOR PRESSURE TREATED 8"x8" WOOD COLUMNS ATTACHED TO EXTENDED CONCRETE FOUNDATION COLUMN. SEE STRUCTURAL SHEET S5.1 FOR DETAILS.



2 / A18 **WALL SECTION**
SCALE: 3/4"=1'-0"



1 / A18 **BUILDING SECTION**
SCALE: 3/8"=1'-0"

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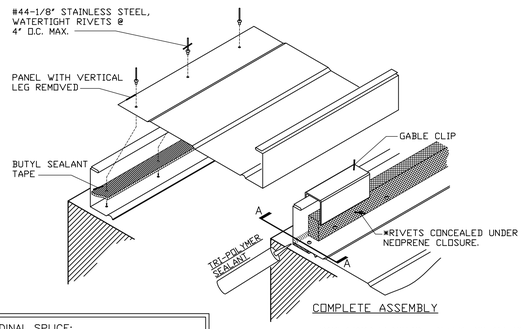
MATERIAL STORAGE STRUCTURE,
BUILDING & WALL SECTIONS

MATERIAL STORAGE STRUCTURE

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

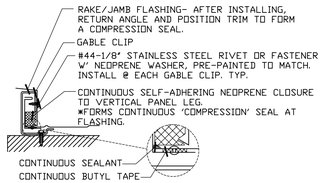
A18
14 OF 112



COMPLETE ASSEMBLY

LONGITUDINAL SPLICE:

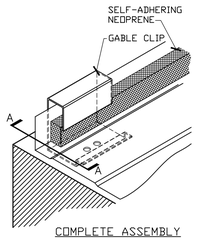
- MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- ERECTOR TO CUT OFF THE VERTICAL PANEL LEG LEAVING APPROXIMATELY 2" OF PANEL PAN LEFT ATTACHED.
- FROM THE MAIN PANEL, CUT AND DISCARD EXCESS PANEL AS REQUIRED TO ADJUST WIDTH.
- ADHERE CONTINUOUS BUTYL SEALANT TAPE TO THE BASE OF THE VERTICAL PANEL LEG AND RE-ATTACH USING #44-1/8" STAINLESS STEEL RIVETS @ 4" o.c. max. DOWN THE ENTIRE LENGTH OF THE PANEL.
- APPLY A CONTINUOUS BEAD OF TRIPOLYMER SEALANT TO THE CORNER GROOVE OF THE PANEL SPLICE.
- HINT: MEASURE TWICE, CUT ONCE!



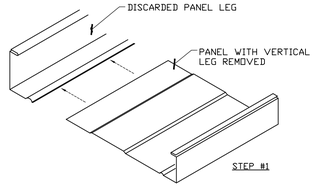
SECTION A-A

1/A19 PANEL ADJUSTMENT DETAIL LONGITUDINAL SPLICE

SCALE: N.T.S.



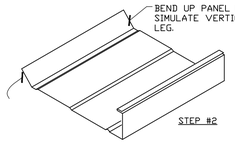
COMPLETE ASSEMBLY



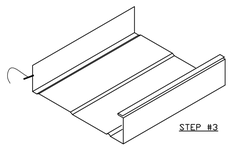
STEP #1

BEND PANEL PAN:

- MEASURE TO DETERMINE THE CORRECT WIDTH TO WHICH THE PANEL NEEDS TO BE ADJUSTED.
- IN ADDITION TO THE NEW PANEL WIDTH MEASUREMENT, IT IS CRUCIAL TO ADD AN EXTRA 2" OF PANEL PAN TO YOUR OVERALL MEASUREMENT. THIS WILL BE BENT UP VERTICALLY TO SIMULATE A VERTICAL PANEL LEG.
- CUT OFF AND DISCARD VERTICAL PANEL LEG AND EXCESS PANEL PAN AS REQUIRED.
- USING HAND TOOLS, BEGIN BENDING PANEL PAN VERTICALLY THE FULL LENGTH OF THE PANEL.
- IT MAY TAKE SEVERAL PASSES TO BEND PANEL PAN TO A FULL 90°.
- HINT: MEASURE TWICE, CUT ONCE!



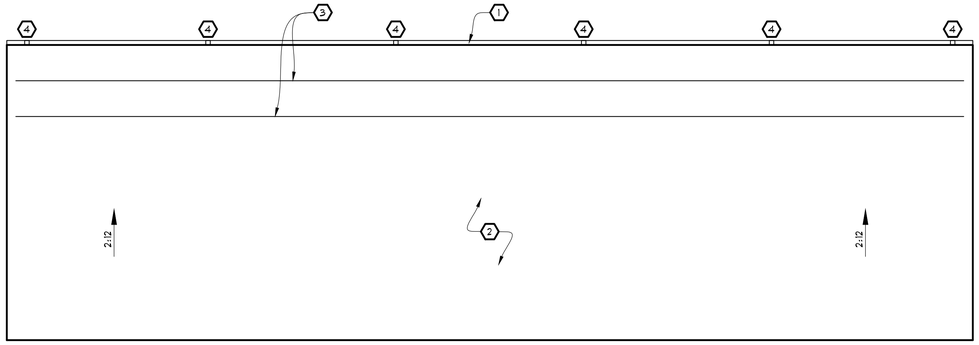
STEP #2



STEP #3

2/A19 PANEL ADJUSTMENT DETAIL BENDING PANEL PAN

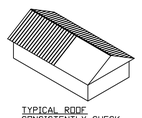
SCALE: N.T.S.



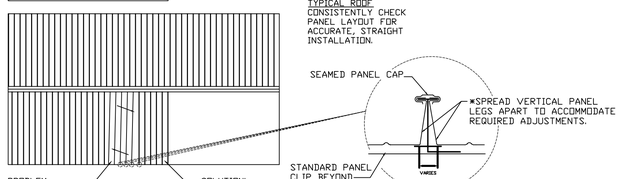
ROOF PLAN

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

TAPERED PANELS:
*ALSO A COMMON TECHNIQUE FOR ADJUSTING TAPERED PANELS AS INSTALLED AROUND A RADIUS.



TYPICAL ROOF
CONSISTENTLY CHECK PANEL LAYOUT FOR ACCURATE, STRAIGHT INSTALLATION.



3/A19 PANEL ADJUSTMENT DETAIL VERTICAL LEG SPREAD

SCALE: N.T.S.

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

CODED NOTES:

1. STANDARD GUTTERS AND DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWN SPOUT & DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE & DRAINED AWAY FROM BUILDING TO PROPER LOCATION. VERIFY W/ ARCHITECT. CONNECTION AND BOOT BY SITE CONTRACTOR.
2. INSTALL EXPOSED FASTENER METAL ROOF.
3. INSTALL CONTINUOUS METAL ICE GUARDS TO MATCH ROOF COLOR AND AS RECOMMENDED WITH ROOF SYSTEM.
4. DOWNSPOUT LOCATION. DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. VERIFY WITH ARCHITECT. CONNECTION AND BOOT BY SITE CONTRACTOR.

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MATERIAL STORAGE STRUCTURE

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CHRISTOPHER R. WIDENER
8909235
REGISTERED ARCHITECT

CHRISTOPHER R. WIDENER
8909235 EXP. 12/31/26

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FOR
THE CITY OF VANDALIA
840 NORTHWOODS BLVD
VANDALIA, OHIO 45377

MATERIAL STORAGE STRUCTURE,
ROOF PLAN & DETAILS

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

A19
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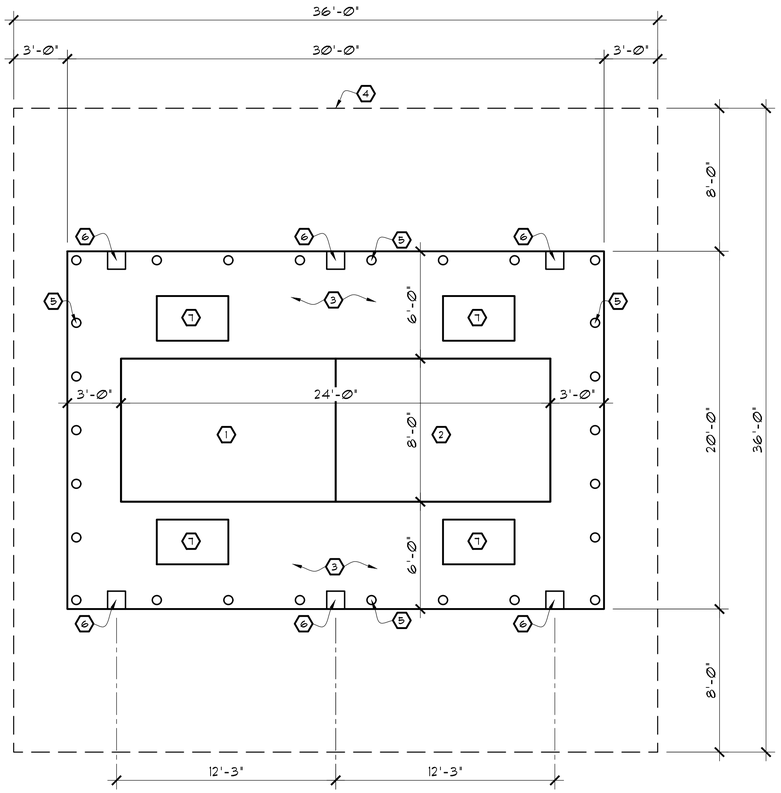

FUEL ISLAND FLOOR PLAN

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

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS

D. GW&L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS PRIOR TO MECHANICAL AND ELECTRICAL ROUGH-IN.

E. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE GW & L.

CODED NOTES:

1. 8' DIAMETER UNLEADED FUEL TANK - 4,000 GALLONS
2. 8' DIAMETER DIESEL FUEL TANK - 4,000 GALLONS
3. 8" THICK CONCRETE SLAB, REINFORCED
4. CANOPY ABOVE. INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE. INSTALL LIGHT FIXTURES ON UNDERSIDE OF CANOPY. DRAWINGS & DETAILS PROVIDED BY CANOPY MANUFACTURER AS DELEGATED DESIGN. SHOP DRAWINGS ARE REQUIRED FOR CANOPY, FOOTERS & FOUNDATION. DRAWINGS REQUIRED BY A LICENSED ENGINEER SHOWING COMPLIANCE WITH APPLICABLE CODES FOR SUBMISSION TO BUILDING DEPARTMENT.
5. 6" DIAMETER PIPE BOLLARDS, CONCRETE FILLED & PAINTED. SEE DETAIL 3/A11.
6. 12" x 12" COLUMNS. PROVIDE PIER FOUNDATION & FOOTER PER MANUFACTURER'S RECOMMENDATIONS. THIS IS A DELEGATED DESIGN.
7. FUEL DISPENSER. SUCTION SYSTEM WITH PUMPS INSIDE EACH. INSTALL ON TOP OF CONTAINMENT PEDESTAL WITH A PRESSURE REGULATOR VALVE BELOW THE DISPENSER.

THIS IS A DELEGATED DESIGN

FUEL STORAGE FLOOR PLAN

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VANDALIA, OHIO 45377
FUEL CANOPY STORAGE,
FLOOR PLAN

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76 OF 112

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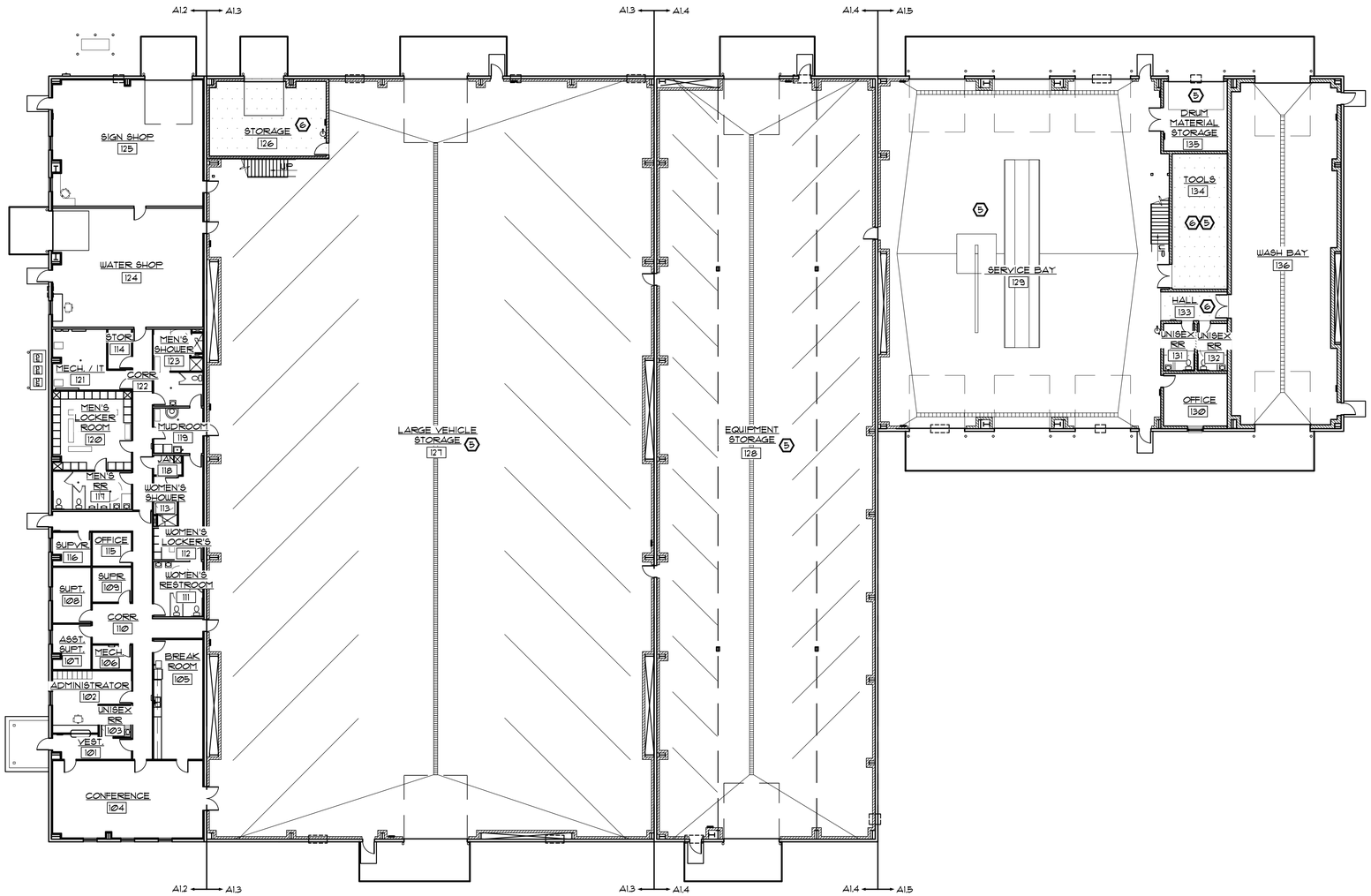

FIRE PROTECTION PLAN

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

GENERAL NOTES:

A. ALL FIRE PROTECTION EQUIPMENT ESSENTIAL TO SUCCESSFUL SYSTEM OPERATION SHALL BE UL LISTED FOR FIRE PROTECTION SERVICE.

B. ALL ABOVE GROUND FIRE PROTECTION SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST. THE ARCHITECT SHALL WITNESS ALL TESTS.

C. ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES.

D. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION, PROPRIETARY STATION, OR REMOTE STATION MONITORING SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.

E. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WIRING OF ALL ELECTRICAL FIRE PROTECTION DEVICES AND EQUIPMENT WITH THE ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR.

F. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE PROTECTION SYSTEM WITH THE ARCHITECT ALL TRADES PRIOR TO INSTALLATION.

G. THE FIRE PROTECTION CONTRACTOR SHALL CENTER (WITHIN 1") ALL PENDENT SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY-IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.

H. THE LOCATION OF EXTERIOR FIRE PROTECTION EQUIPMENT SUCH AS FIRE DEPARTMENT CONNECTIONS, TEST DRAINS, ETC., SHALL BE COORDINATED WITH THE ARCHITECT AND APPROVED BY THE LOCAL FIRE DEPARTMENT.

I. FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AUTHORITIES HAVING JURISDICTION.

J. PROVIDE KNOX BOXES PER LOCAL FIRE DEPARTMENT REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS, QUANTITIES AND LOCATIONS.

K. ALL PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES.

L. PREP ALL EXPOSED PIPING, ETC FOR PAINTING.

M. ROUTE ALL PIPING TIGHT TO STRUCTURE.

N. THE AUTOMATIC SPRINKLER SYSTEM MUST BE MONITORED FOR WATERFLOW AND SUPERVISORY SIGNALS UNDER OBC 903.4. SPRINKLER SYSTEM TO BE CONNECTED TO AN APPROVED FIRE ALARM SYSTEM THAT PROVIDES AUDIBLE AND VISUAL ALARM SIGNALS AND SUPERVISORY NOTIFICATION.

O. DUCT-TYPE SMOKE DETECTORS ARE REQUIRED IN AIR-HANDLING SYSTEMS EXCEEDING 2000 CFM PER OBC 606. THESE DETECTORS MUST INITIATE A SUPERVISORY SIGNAL OR ACTIVATE THE BUILDING FIRE ALARM IF ONE IS INSTALLED.

P. DOORS EQUIPPED WITH ELECTROMAGNETIC LOCKS OR HOLD-OPEN DEVICES MUST AUTOMATICALLY RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEMS OR LOSS OF POWER PER OBC 716 AND NFPA 72.

CODED NOTES:

1. PROVIDE OBC & NFPA COMPLIANT AUTOMATIC SPRINKLER SYSTEM FOR THE ENTIRE BUILDING IN ACCORDANCE WITH HAZARD GROUP DESIGN CRITERIA REQUIRED BY CODE.
2. PROVIDE AND COORDINATE LOCATION OF SPRINKLER HEAD ABOVE ALL EQUIPMENT & OBSTRUCTIONS.
3. ALL SPRINKLER SHALL BE EXPOSED ON WALL AT LOCATED AS CLOSE TO CEILING AS POSSIBLE. SPRINKLER HEAD SHALL BE SIDE WALL TYPE.
4. (1A) ALL SPRINKLER PIPING SHALL BE PAINTED TO MATCH ROOM/AREA CONTRACTOR. SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL COVERS FOR ALL SPRINKLER HEADS.
5. ALL SPRINKLER HEADS SHALL BE WHITE, COVERED HEADS. (WIRE CAGE PROTECTION REQUIRED WITH ROOMS 127, 128, 129, 131, 132, 133, 134, 135, 136, 201, & 202.)
6. PROVIDE SPRINKLERS ABOVE & BELOW MEZZANINE (126, 130, 131, 132, 133, 134, 135, 201, & 202) AS REQUIRED BY APPLICABLE CODES.
7. (2A) (15A) THE SITE CONTRACTOR SHALL EXTEND (AT MINIMUM OF 54" BELOW FINISH GRADE) A 6" DIAMETER COMBINATION FIRE, AND DOMESTIC SERVICE MAIN FROM THE LOCATION SHOWN ON THE CIVIL SHEETS INTO THE BUILDING AT THIS LOCATION. THE SERVICE SHALL EXTEND UP 36" ABOVE FINISHED FLOOR AND BE CAP FOR FUTURE CONNECTION. THE SITE CONTRACTOR SHALL ALSO PROVIDE A 3" DOMESTIC WATER SERVICE TAP CAPPED AT 24" ABOVE FINISHED FLOOR FOR FUTURE CONNECTION. THE SITE CONTRACTOR SHALL CLOSELY COORDINATE THE LOCATION OF THE COMBINATION 6" RISER WITH THE BUILDING SPRINKLER, AND PLUMBING CONTRACTORS PRIOR TO START OF ANY WORK. THE BUILDING SPRINKLER CONTRACTOR SHALL PROVIDE A FREE STANDING POST INDICATING VALVE AND HYDRANT TO THE SITE CONTRACTOR FOR INSTALLATION. VERIFY TYPE, FINISH AND LOCATION WITH ALL AUTHORITIES HAVING JURISDICTION. SEE THE SITE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. SEE C5.
8. PROVIDE FIRE DEPARTMENT CONNECTION AT THIS LOCATION. VERIFY TYPE, FINISH AND LOCATION WITH AUTHORITIES HAVING JURISDICTION. FIRE DEPARTMENT CONNECTION TO HAVE SPRINGFIELD THREADS.

THIS WORK IS A DELEGATED DESIGN BY A LICENSED SPRINKLER DESIGNER. PROVIDE DESIGNED & SEALED DRAWINGS FOR BUILDING DEPARTMENT, FOR SEPARATE PERMIT.

ALL WORK ON THIS SHEET BY (1A) UNLESS OTHERWISE NOTED.

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FIRE PROTECTION

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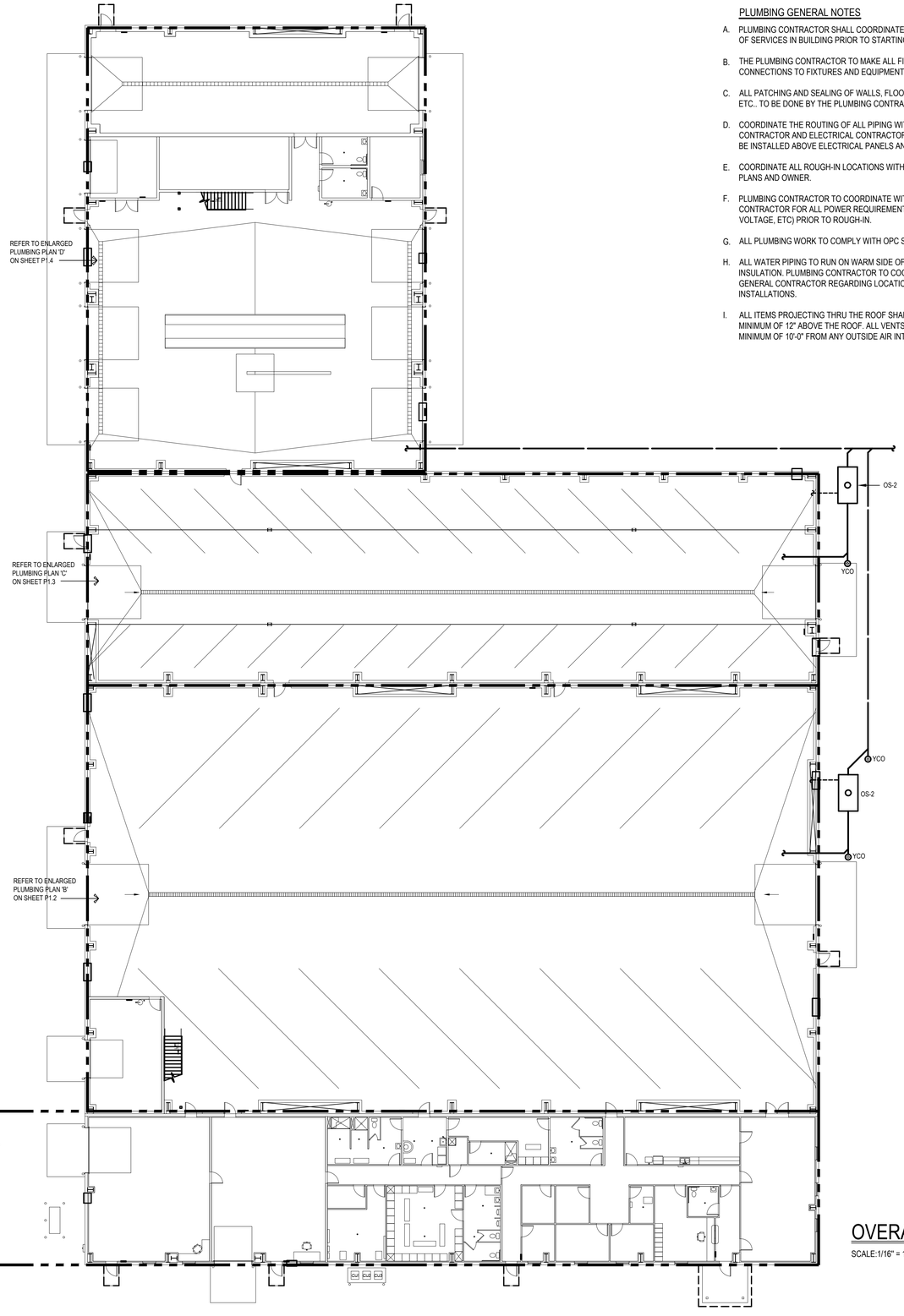


PLUMBING GENERAL NOTES

A. PLUMBING CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SERVICES IN BUILDING PRIOR TO STARTING ANY WORK.

B. THE PLUMBING CONTRACTOR TO MAKE ALL FINAL PLUMBING CONNECTIONS TO FIXTURES AND EQUIPMENT.

C. ALL PATCHING AND SEALING OF WALLS, FLOORS, CEILINGS, ROOF, ETC.. TO BE DONE BY THE PLUMBING CONTRACTOR.

D. COORDINATE THE ROUTING OF ALL PIPING WITH MECHANICAL CONTRACTOR AND ELECTRICAL CONTRACTOR. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL PANELS AND EQUIPMENT.

E. COORDINATE ALL ROUGH-IN LOCATIONS WITH ARCHITECTURAL PLANS AND OWNER.

F. PLUMBING CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS (LOCATION, VOLTAGE, ETC) PRIOR TO ROUGH-IN.

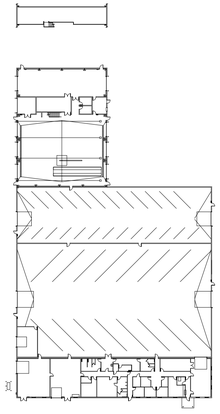
G. ALL PLUMBING WORK TO COMPLY WITH OPC SECTION 105.2.

H. ALL WATER PIPING TO RUN ON WARM SIDE OF THE BUILDING INSULATION. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR REGARDING LOCATION OF PIPING INSTALLATIONS.

I. ALL ITEMS PROJECTING THRU THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING
	HOT WATER RETURN PIPING
	HOT WATER PIPING
	SANITARY SEWER (BELOW GRADE)
LP	LIQUEFIED PETROLEUM GAS
FD	FLOOR DRAIN
CO	FLOOR CLEANOUT
OW	OIL WASTE PIPING
V	SANITARY VENT PIPING
	CAP ON END OF PIPE
	SHUT-OFF VALVE
	GAS SHUT-OFF VALVE
	CHECK VALVE
	SHUT-OFF VALVE IN RISER
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	TEE
	ELBOW
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
TS	TRAP SEAL
TTV	THERMOSTATIC TEMPERING VALVE
WC	WATER CLOSET
UR	URINAL
LAV	LAVATORY
WH	WATER HEATER
ET	EXPANSION TANK
RHWP	RECIRCULATING HOT WATER PUMP
KS	KITCHEN SINK
OS	OIL SEPARATOR
SHWR	SHOWER
FD	FLOOR DRAIN
VTR	VENT THRU ROOF
YCO	YARD CLEANOUT
CO	FLOOR CLEANOUT
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
A.F.F.	ABOVE FINISHED FLOOR
IE	INVERT ELEVATION
	GAS PRESSURE REGULATOR



KEY PLAN

N.T.S.

OVERALL PLUMBING PLAN

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

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WDC GROUP

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A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

OVERALL PLUMBING PLAN

PROJECT NO.:	23014
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NATURAL GAS PIPING NOTES:

1. PLUMBING CONTRACTOR TO NOTIFY THE AUTHORITY HAVING JURISDICTION WHEN THE INSTALLATION IS READY FOR INSPECTION (AT ROUGH-IN PRIOR TO COVERING AND FINAL).
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL MANUAL SHUT-OFF VALVE, DRIPS AND/OR SEDIMENT TRAPS AT EACH PIECE OF EQUIPMENT AND AT THE OUTLET OF THE METER. VALVES AND DRIPS SHALL BE READILY ACCESSIBLE TO PERMIT CLEANING, EMPTYING OR SERVICING.
3. GAS PIPING IS SIZED WITH LONGEST LENGTH METHOD AND BASED ON THE INTERNATIONAL FUEL GAS CODE; SCHEDULE 40 METALLIC PIPE TABLE 402.4(2).
4. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE TESTING AND INSPECTION PRIOR TO ACCEPTANCE, PER NFPA 54. TEST PRESSURE SHALL BE NO LESS THAN 1-1/2 TIMES THE MAXIMUM WORKING PRESSURE, BUT NOT LESS THAN 3 PSI. TEST SHALL BE NOT LESS THAN 1/2 HOUR PER 500 CF OF PIPE VOLUME.
5. GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS FOR 2" AND SMALLER. GAS PIPING COMPOUND AT JOINTS SHALL BE PER NFPA BULLETIN #54 AND LOCAL CODES. GAS VALVES SHALL BE UL LISTED FOR GAS SERVICE SUCH AS DEZURICK MODEL S-425 FOR 2" AND LESS AND MODEL F-425 FOR 2-1/2" AND LARGER. NOTE: WELDED PIPE TO BE WITH APPROVED WELD-O-LET FITTINGS.
6. ALL NEW EXTERIOR GAS PIPING IS TO BE PRIMED AND PAINTED WITH TWO (2) COATS OF RUST RESISTANT PAINT, COLOR AS SELECTED BY ARCHITECT AS REQUIRED BY SECTION 404 OF THE INTERNATIONAL FUEL GAS CODE.
7. PLUMBING CONTRACTOR SHALL VENT PRESSURE REGULATORS PER CODE AND MANUFACTURER'S RECOMMENDATIONS.
8. PLUMBING CONTRACTOR SHALL PROVIDE TEST PORTS BEFORE AND AFTER REGULATOR.

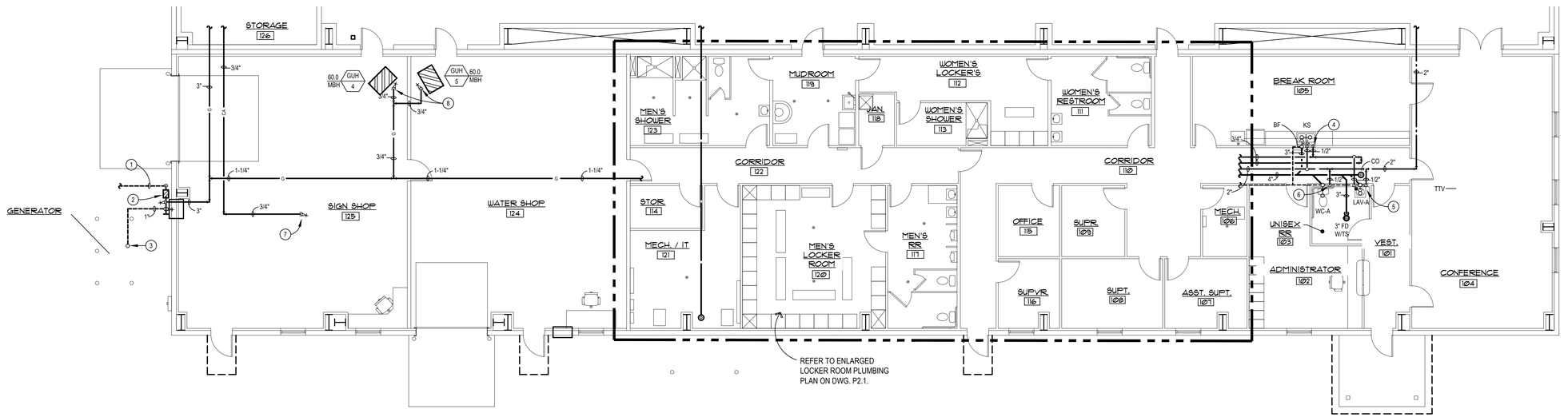
NATURAL GAS DEMAND

INFRARED HEATER (IRH-1)	100.0 CFH
INFRARED HEATER (IRH-2)	100.0 CFH
INFRARED HEATER (IRH-3)	100.0 CFH
INFRARED HEATER (IRH-4)	100.0 CFH
INFRARED HEATER (IRH-5)	100.0 CFH
INFRARED HEATER (IRH-6)	100.0 CFH
INFRARED HEATER (IRH-7)	100.0 CFH
INFRARED HEATER (IRH-8)	100.0 CFH
INFRARED HEATER (IRH-9)	100.0 CFH
INFRARED HEATER (IRH-10)	100.0 CFH
INFRARED HEATER (IRH-11)	200.0 CFH
INFRARED HEATER (IRH-12)	150.0 CFH
INFRARED HEATER (IRH-13)	150.0 CFH
INFRARED HEATER (IRH-14)	150.0 CFH
INFRARED HEATER (IRH-15)	150.0 CFH
INFRARED HEATER (IRH-16)	150.0 CFH
INFRARED HEATER (IRH-17)	150.0 CFH
INFRARED HEATER (IRH-18)	150.0 CFH
INFRARED HEATER (IRH-19)	150.0 CFH
INFRARED HEATER (IRH-20)	200.0 CFH
FURNACE (FUR-1)	100.0 CFH
FURNACE (FUR-2)	100.0 CFH
FURNACE (FUR-3)	100.0 CFH
UNIT HEATER (UH-1)	30.0 CFH
UNIT HEATER (UH-2)	30.0 CFH
UNIT HEATER (UH-3)	30.0 CFH
UNIT HEATER (UH-4)	60.0 CFH
UNIT HEATER (UH-5)	60.0 CFH
WATER HEATER (WH-1)	199.9 CFH
WATER HEATER (WH-2)	199.9 CFH
PRESSURE WASHER	390.0 CFH
PRESSURE WASHER	390.0 CFH
GENERATOR	1873.5 CFH
TOTAL	6,163.3 CFH

NOTES:
1. GAS PRESSURE AFTER METER IS 2 PSI.
2. GAS PIPE SIZES ARE BASED ON THE INTERNATIONAL FUEL GAS CODE; TABLE 402.4(5) SCHEDULE 40 METALLIC PIPE; INLET PRESSURE OF 2 PSI; PRESSURE DROP OF 1 PSI. AND 600 FEET (DEVELOPED LENGTH OF PIPE).

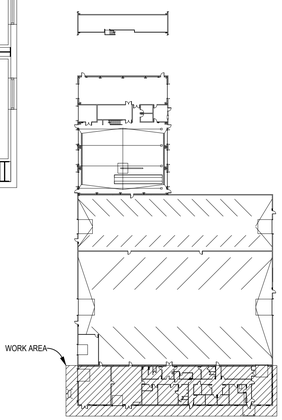
PLUMBING CODED NOTES

1. UNDERGROUND NATURAL GAS BY GAS COMPANY. PLUMBING CONTRACTOR TO COORDINATE. REFER TO SITE PLAN DRAWING FOR ADDITIONAL INFORMATION.
2. NATURAL GAS PIPE BY PC TO GAS METER ON EXTERIOR BUILDING WALL.
3. RISE GAS LINE UP FROM UNDERGROUND. EXTEND AND CONNECT GAS PIPING TO GENERATOR COMPLETE W/ SHUT-OFF VALVE & DIRT LEG.
4. 1/2" HOT & COLD WATER LINES DOWN IN WALL WITH 1/2" HOT & COLD WATER TO KITCHEN SINK & 1/2" COLD WATER LINE DOWN IN WALL TO BF.
5. 1/2" HOT & COLD WATER LINES DOWN IN WALL TO LAV.
6. 1/2" COLD WATER LINE DOWN IN WALL TO WC.
7. 3/4" COMPRESSED AIR LINE DOWN WITH SHUT-OFF VALVE TO 10' HOSE REEL. COORDINATE EXACT LOCATION & REQUIREMENTS. PROVIDE 175 PSI REINFORCED FLEX HOSE AT COMPRESSED AIR CONNECTION. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.
8. EXTEND GAS LINE TO UNIT HEATER COMPLETE WITH SHUT-OFF VALVE & DIRT LEG.



ENLARGED PLUMBING PLAN 'A'

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



KEY PLAN

N.T.S.

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WDC GROUP

REVISIONS:

vandalia ohio — small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
ENLARGED PLUMBING PLAN 'A'

PROJECT NO.: 23014
DRAWN BY: MT
DATE: 05-18-2026
CHECKED BY: NAM

P1.1
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PLUMBING CODED NOTES

1A 15A (1) TRENCH DRAIN FURNISHED AND INSTALLED BY CONTRACTOR. PLUMBING CONTRACTOR TO MAKE FINAL PIPING CONNECTIONS TO TRENCH DRAIN. REFER TO "TRENCH DRAIN DETAIL" ON DRAWING P3.2 FOR ADDITIONAL INFO.

(2) 3/4" CW LINE DOWN ALONG WALL WITH SHUT-OFF VALVE TO 3/4" HOSE BIBB (HB) MOUNT AT 30" ABOVE FINISH FLOOR.

(3) EXTEND & CONNECT GAS LINE TO INFRARED HEATER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG. REFER TO DETAIL ON DRAWING P3.1 FOR ADDITIONAL INFORMATION.

(4) EXTEND & CONNECT GAS LINE TO UNIT HEATER COMPLETE WITH SHUT-OFF, PRESSURE REGULATOR VALVE & DIRT LEG.

(5) 3/4" CW LINE DOWN ALONG WALL WITH SHUT-OFF VALVE TO 3/4" FROST PROOF HOSE BIBB (FPHB) MOUNT AT 30" ABOVE FINISH FLOOR.

(6) 1" CW LINE DOWN ALONG WALL WITH 3/4" CW LINE & SHUT-OFF VALVE TO EACH 3/4" HOSE BIBB (HB) MOUNT AT 30" ABOVE FINISH FLOOR.

PLUMBING CODED NOTES (CONT.)

(7) 2" CW LINE DOWN ALONG WALL WITH 2" CW CONNECTION WITH SHUT-OFF & 3/4" CW LINE WITH SHUT-OFF VALVE TO 3/4" FROST PROOF HOSE BIBB (FPHB) MOUNT AT 30" ABOVE FINISH FLOOR.

(8) INTAKE & EXHAUST FROM WATER HEATER (WH-2) TO SOUTH WALL. EXTEND PVC AIR INTAKE & FLUE EXHAUST THRU WALL TO COMBINATION FLUE/INTAKE TERMINATION KIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(9) GAS-FIRED WATER HEATERS (WH-3). REFER TO DETAIL ON DWG. P3.2.

(10) 1-1/4" HOT WATER, 1-1/4" COLD WATER & 3/4" HOT WATER RETURN LINES DOWN TO WATER HEATERS (WH-3).

(11) EXTEND & CONNECT GAS LINE TO WATER HEATER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG.

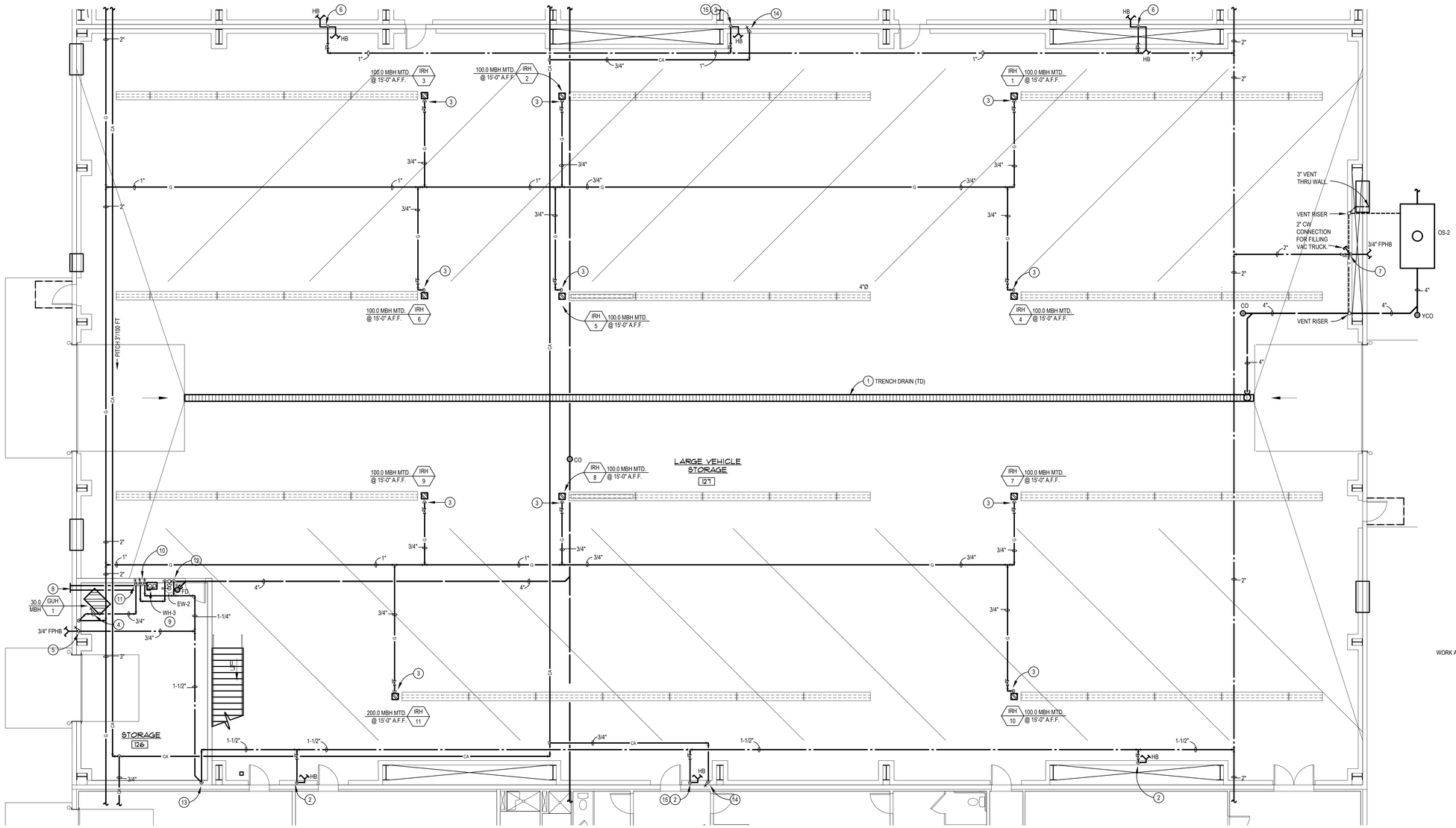
(12) 1-1/4" H & CW LINES DN IN WALL TO TEMPERING VALVE W/ 1-1/4" TW TO SHOWER/EYEWASH (EW-2).

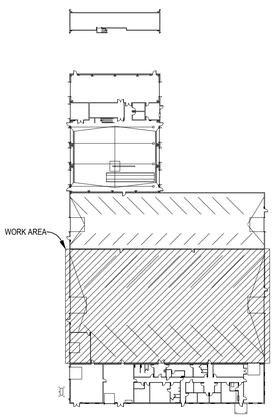
PLUMBING CODED NOTES (CONT.)

(13) 1-1/2" COLD WATER LINE DOWN IN WALL TO RUN BELOW MEZZANINE TO SERVE RESTROOM FIXTURES.

(14) 3/4" COMPRESSED AIR LINE DOWN WITH SHUT-OFF VALVE TO 50' HOSE REEL AT 6'-6". COORDINATE EXACT LOCATION & REQUIREMENTS. PROVIDE 175 PSI REINFORCED FLEX HOSE AT COMPRESSED AIR CONNECTION. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.

(15) PROVIDE COLD WATER 3/4" TEE AT 6'-6" WITH SHUT-OFF VALVE & HOSE NIPPLE FOR 50' HOSE REEL. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.





KEY PLAN

N.T.S.

ENLARGED PLUMBING PLAN 'B'

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

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FOR
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ENLARGED PLUMBING
PLAN 'B'

PROJECT NO.:	23014
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CHECKED BY:	NAM

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FIRE PROTECTION NOTE:
A LICENSED FIRE PROTECTION CONTRACTOR SHALL FURNISH & INSTALL A COMPLETE SPRINKLER SYSTEM PER, NFPA-13 AND LOCAL FIRE DEPARTMENT REQUIREMENTS. FIRE PROTECTION CONTRACTOR WILL BE RESPONSIBLE FOR ALL WORKING DRAWINGS, HYDRAULIC CALCULATIONS, ETC... TO OBTAIN A PERMIT FOR THE WORK FROM LOCAL AUTHORITIES HAVING JURISDICTION.
NOTE: FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALTERNATE TO PROVIDE SHUT-OFFS AT EACH FLOOR.

PLUMBING CODED NOTES

1A 15A (1) TRENCH DRAIN FURNISHED AND INSTALLED BY CONTRACTOR. PLUMBING CONTRACTOR TO MAKE FINAL PIPING CONNECTIONS TO TRENCH DRAIN. REFER TO "TRENCH DRAIN DETAIL" ON DRAWING P3.2 FOR ADDITIONAL INFO.

(2) 8" COMBINATION FIRE MAIN/DOMESTIC WATER SERVICE.

(3) 3" DOMESTIC WATER BACKFLOW PREVENTER ASSEMBLY. REFER TO BACKFLOW PREVENTER DETAIL ON DWG. P5. COORDINATE EXACT REQUIREMENTS PER LOCAL WATER DEPARTMENT.

15C (4) 6" FIRE BACKFLOW PREVENTER & RISER BY FIRE PROTECTION CONTRACTOR (APPROX. 3'-0" AVAILABLE SPACE). REFER TO SPRINKLER RISER DETAIL ON DWG. P5. COORDINATE EXACT REQUIREMENTS PER LOCAL WATER DEPARTMENT.

(5) 1" CW LINE DOWN ALONG WALL WITH 3/4" CW LINE & SHUT-OFF VALVE TO 3/4" HOSE BIBB (HB) & 3/4" CW LINE & SHUT-OFF VALVE TO 3/4" FROST PROOF HOSE BIBB (FPHB). MOUNT AT 30" ABOVE FINISH FLOOR.

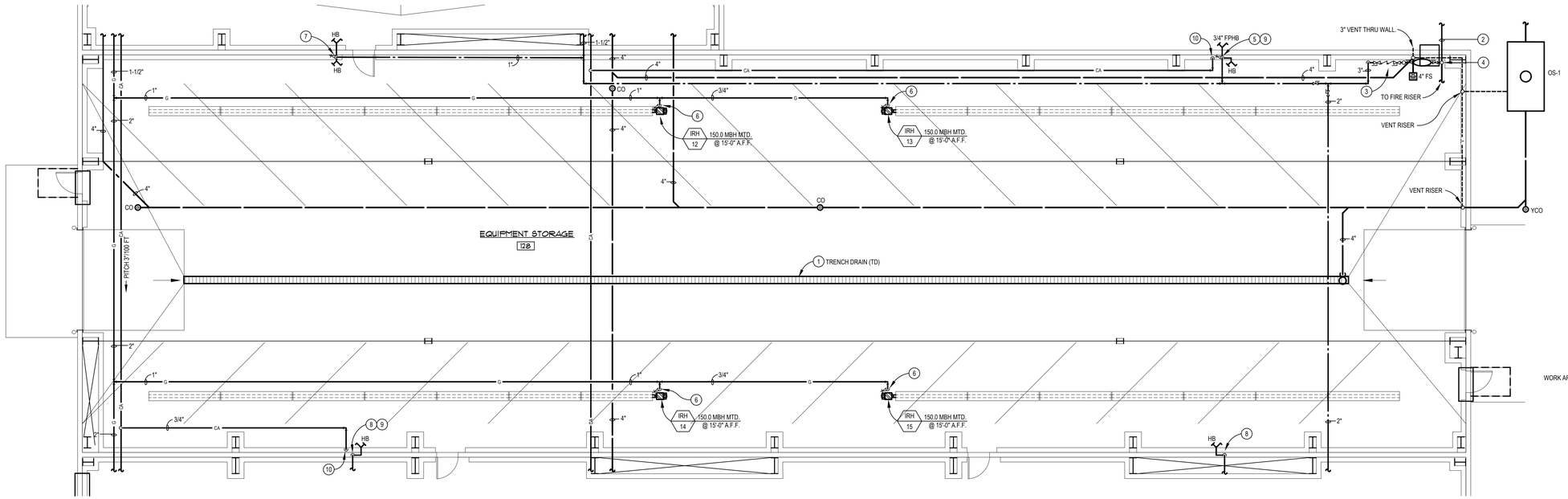
(6) EXTEND & CONNECT GAS LINE TO INFRARED HEATER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG. REFER TO DETAIL ON DRAWING P3.1 FOR ADDITIONAL INFORMATION.

(7) 1" CW LINE DOWN ALONG WALL WITH 3/4" CW LINE & SHUT-OFF VALVE TO EACH 3/4" HOSE BIBB (HB). MOUNT AT 30" ABOVE FINISH FLOOR.

(8) 3/4" CW LINE DOWN ALONG WALL WITH SHUT-OFF VALVE TO 3/4" HOSE BIBB (HB) MOUNT AT 30" ABOVE FINISH FLOOR.

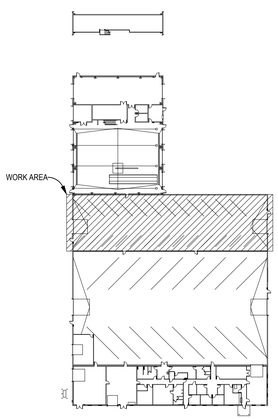
(9) PROVIDE 3/4" TEE INSIDE BUILDING AT 6'-6" WITH SHUT-OFF VALVE & HOSE NIPPLE FOR 50' HOSE REEL. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.

(10) 3/4" COMPRESSED AIR LINE DOWN WITH SHUT-OFF VALVES TO 50' HOSE REEL AT 6'-6". COORDINATE EXACT LOCATION & REQUIREMENTS. PROVIDE 175 PSI REINFORCED FLEX HOSE AT COMPRESSED AIR CONNECTION. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.



ENLARGED PLUMBING PLAN 'C'

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



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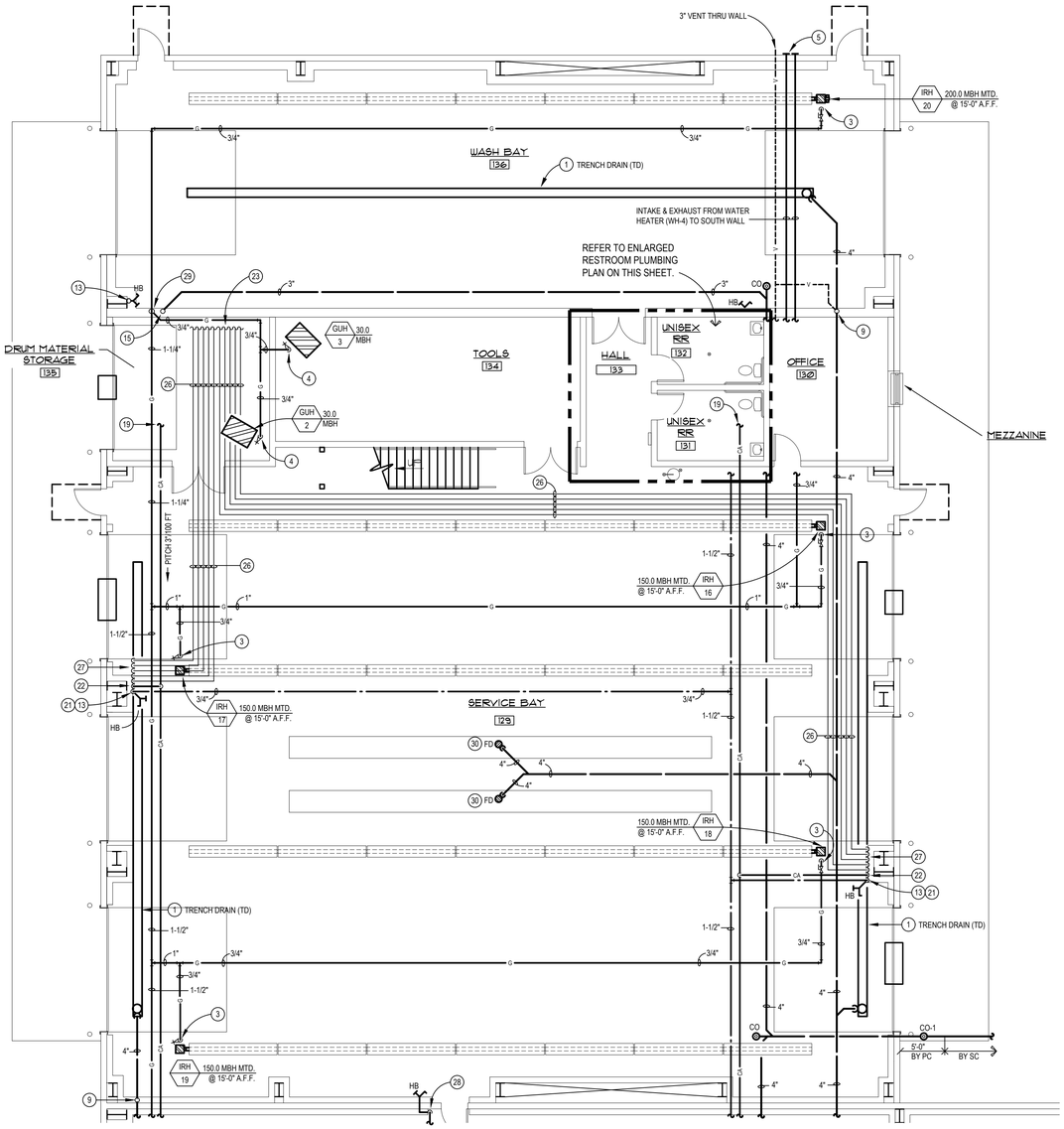


ENLARGED PLUMBING PLAN 'D'

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

PLUMBING CODED NOTES

1A 15A (1) TRENCH DRAIN FURNISHED AND INSTALLED BY CONTRACTOR. PLUMBING CONTRACTOR TO MAKE FINAL PIPING CONNECTIONS TO TRENCH DRAIN. REFER TO "TRENCH DRAIN DETAIL" ON DRAWING P3.2 FOR ADDITIONAL INFO.

(2) 3/4" CW LINE DOWN ALONG WALL WITH SHUT-OFF VALVE TO 3/4" HOSE BIBB (HB) MOUNT AT 30" ABOVE FINISH FLOOR.

(3) EXTEND & CONNECT GAS LINE TO INFRARED HEATER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG. REFER TO DETAIL ON DRAWING P3.1 FOR ADDITIONAL INFORMATION.

(4) EXTEND & CONNECT GAS LINE TO UNIT HEATER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG.

(5) EXTEND PVC AIR INTAKE & FLUE EXHAUST THRU WALL TO COMBINATION FLUE/INTAKE TERMINATION KIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(6) 1/2" COLD WATER LINE DOWN TO WC.

(7) 1/2" COLD WATER LINE DOWN TO BF.

(8) 1/2" HOT & COLD WATER LINES DOWN TO LAV.

(9) VENT RISER.

(10) GAS-FIRED WATER HEATERS (WH-4). REFER TO DETAIL ON DWG. P3.2.

(11) 1" HOT WATER, 1" COLD WATER &

(12) EXTEND & CONNECT GAS LINE TO WATER HEATER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG.

PLUMBING CODED NOTES (CONT.)

(13) 3/4" CW LINE DOWN ALONG WALL WITH SHUT-OFF VALVE TO 3/4" HOSE BIBB (HB) MOUNT AT 30" ABOVE FINISH FLOOR.

(14) EXTEND & CONNECT GAS LINE TO PRESSURE WASHER COMPLETE WITH SHUT-OFF VALVE, PRESSURE REGULATOR & DIRT LEG. COORDINATE EXACT LOCATION PRIOR TO STARTING ANY WORK.

(15) 3" SAN. STACK WITH CLEANOUT AT BASE.

(16) 1" HOT WATER & 3/4" HOT WATER RETURN LINES UP TO MEZZANINE.

(17) 1-1/4" COLD WATER LINE DOWN IN WALL TO RUN BELOW MEZZANINE TO SERVE RESTROOM FIXTURES.

(18) 3/4" H & CW LINES DN IN WALL TO TEMPERING VALVE W/ 3/4" TW TO EYEWASH (EW-1).

(19) REFER TO ENLARGED MEZZANINE PLUMBING PLAN ON THIS SHEET FOR CONTINUATION OF COMPRESSED AIR.

(20) COMPRESSED AIR (CA) LINE TO AIR COMPRESSOR. AIR COMPRESSOR BY OTHERS. COORDINATE EXACT LOCATION & REQUIREMENTS. PROVIDE OSHA SHUT-OFF, UNION & REINFORCED FLEX CONNECTION & 0-200 PRESSURE GAUGE.

(21) PROVIDE 3/4" TEE AT 6'-6" WITH SHUT-OFF VALVE & HOSE NIPPLE FOR 50' HOSE REEL. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.

(22) 3/4" COMPRESSED AIR LINE DOWN WITH SHUT-OFF VALVES TO 50' HOSE REEL AT 6'-6". COORDINATE EXACT REQUIREMENTS PRIOR TO STARTING WORK. REEL TO BE GRAINGER 56MW51 OR APPROVED EQUAL.

1A (23) (2) OIL, (2) TRANSMISSION FLUID, HYDRAULIC OIL TO TANKS (SHOWN FOR REFERENCE ONLY). SYSTEMS TO BE DESIGNED, PROVIDED & INSTALLED BY VENDOR. COORDINATE EXACT LOCATION &

PLUMBING CODED NOTES (CONT.)

(24) REQUIREMENTS PRIOR TO STARTING ANY WORK. 3/4" CW LINE DOWN ALONG WALL WITH SHUT-OFF VALVE TO 3/4" HOSE BIBB (HB) FOR PRESSURE WASHER. VERIFY EXACT LOCATION & REQUIREMENTS PRIOR TO STARTING ANY WORK.

(25) PROVIDE COLD WATER 3/4" TEE AT 6'-6" WITH SHUT-OFF VALVE & HOSE NIPPLE FOR 50' HOSE REEL.

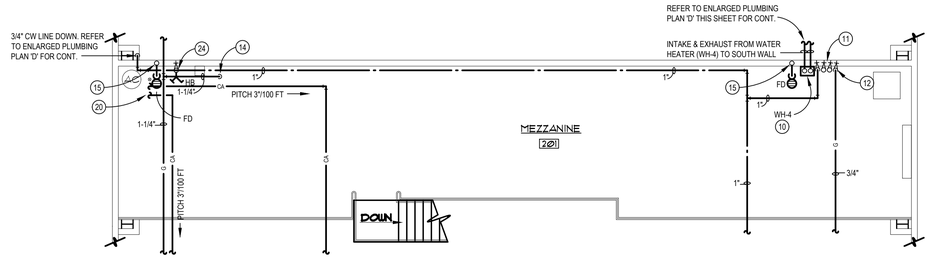
1A (26) OIL, TRANSMISSION FLUID, HYDRAULIC OIL SHOWN FOR REFERENCE ONLY. SYSTEMS TO BE DESIGNED, PROVIDED & INSTALLED BY VENDOR. COORDINATE EXACT LOCATIONS & REQUIREMENTS PRIOR TO STARTING WORK.

1A (27) (2) OIL, (2) TRANSMISSION FLUID, HYDRAULIC OIL DOWN WITH SHUT-OFF VALVES TO 50' HOSE REEL AT 6'-6" (SHOWN FOR REFERENCE ONLY). COORDINATE OIL, TRANSMISSION FLUID & HYDRAULIC OIL REQUIREMENTS PRIOR TO STARTING WORK. SYSTEMS TO BE DESIGNED, PROVIDED & INSTALLED BY VENDOR. REEL TO BE GRAINGER 4NA90 OR APPROVED EQUAL.

(28) 1" CW LINE DOWN ALONG WALL WITH 3/4" CW LINE & SHUT-OFF VALVE TO EACH 3/4" HOSE BIBB (HB). MOUNT AT 30" ABOVE FINISH FLOOR.

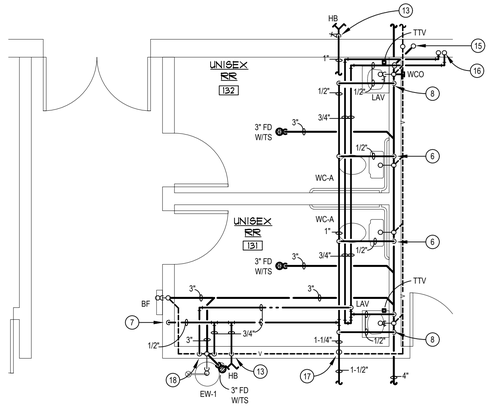
(29) 3/4" GAS LINE DOWN TO RUN BELOW MEZZANINE.

(30) FLOOR DRAIN INCLUDED IN ALTERNATE #2.



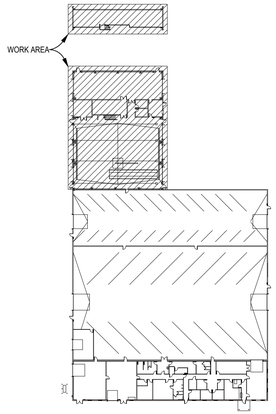
ENLARGED MEZZANINE PLUMBING PLAN

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



ENLARGED RESTROOM PLUMBING PLAN

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



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ENLARGED PLUMBING PLAN 'D'

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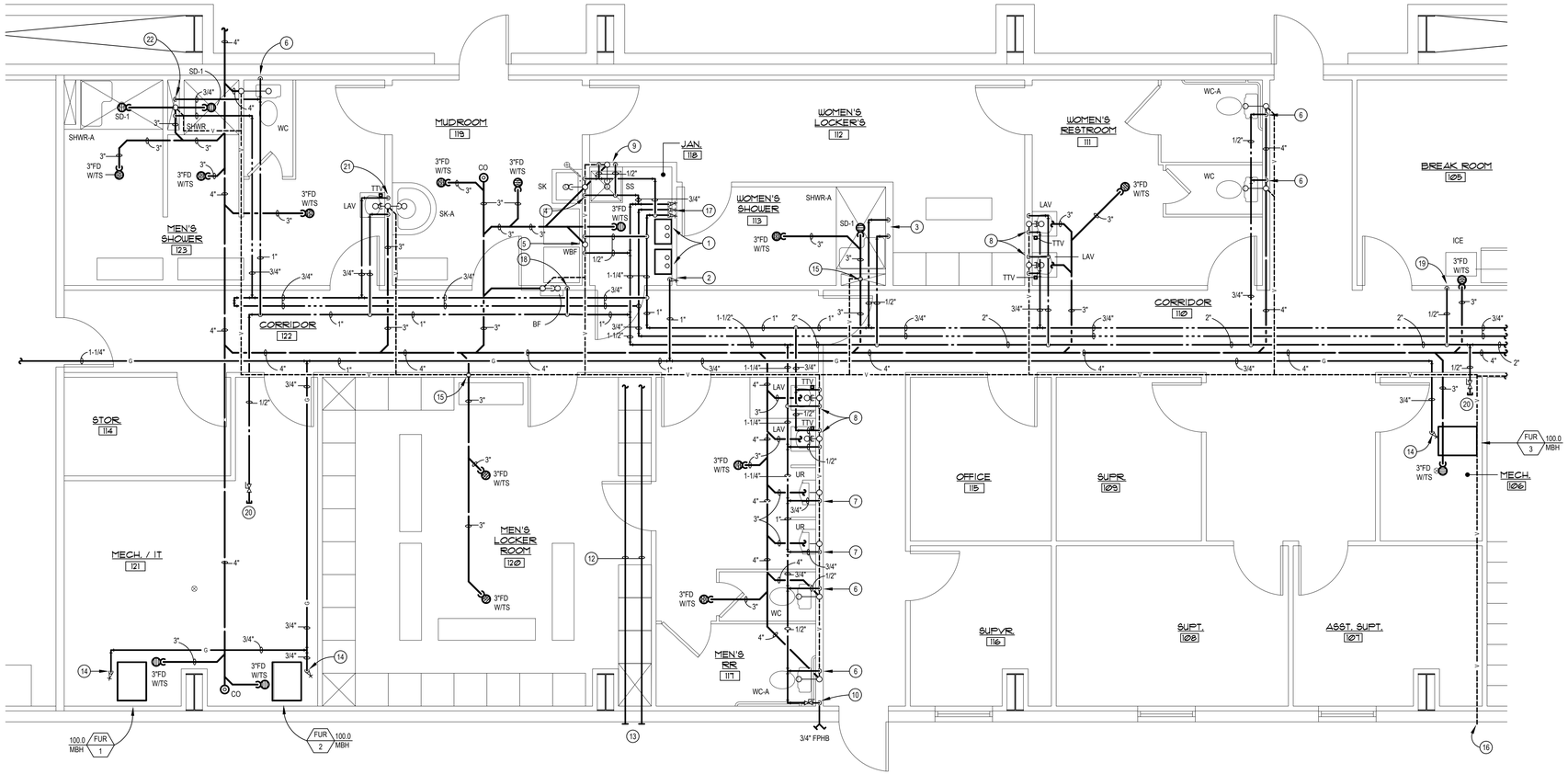
PLUMBING TAG NOTES:

1. GAS-FIRED WATER HEATERS (WH-1 & WH-2). REFER TO DETAIL ON DWG. P3.2.
2. EXTEND & CONNECT GAS LINE TO WATER HEATER COMPLETE WITH SHUT-OFF VALVE & DIRT LEG.
3. 1/2" HOT & COLD WATER LINES DOWN TO SHOWER.
4. 1/2" HOT & COLD WATER LINES DOWN TO SINK.
5. 1/2" HOT & COLD WATER LINES DOWN TO WBF.
6. 1/2" COLD WATER LINE DOWN TO WC.
7. 3/4" COLD WATER LINE DOWN TO UR.
8. 1/2" HOT & COLD WATER LINES DOWN TO LAV.
9. 1/2" HOT & COLD WATER LINES DOWN TO SERVICE SINK.
10. 3/4" COLD WATER LINE DOWN TO FPHB WITH SHUT-OFF VALVE.
11. 3" VENT THRU WALL WITH GOOSENECK AND VENT CAP. VENT SHALL BE 10'-0" ABOVE THE HIGHEST ADJACENT GRADE & SHALL BE A MIN. OF 10'-0" FROM ANY DOOR, OPERABLE WINDOW OR OUTSIDE AIR INTAKE UNLESS IT IS LOCATION A MIN. 3'-0" ABOVE ANY DOOR, OPERABLE WINDOW & ANY OUTSIDE AIR INTAKE.
12. EXHAUST & INTAKE PIPING FROM WATER HEATERS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
13. EXTEND PVC AIR INTAKE & FLUE EXHAUST THRU WALL TO COMBINATION FLUE/INTAKE TERMINATION KIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

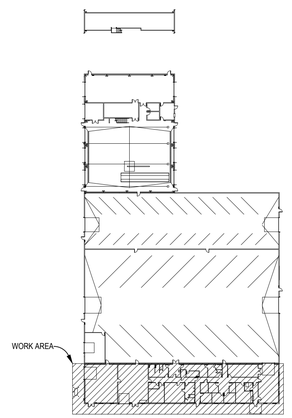
PLUMBING TAG NOTES (CONT.):

14. EXTEND & CONNECT GAS LINE TO FURNACE COMPLETE WITH SHUT-OFF VALVE & DIRT LEG.
15. VENT RISER.
16. 3" VENT THRU WALL WITH GOOSENECK AND VENT CAP. VENT SHALL BE 10'-0" ABOVE THE HIGHEST ADJACENT GRADE & SHALL BE A MIN. OF 10'-0" FROM ANY DOOR, OPERABLE WINDOW OR OUTSIDE AIR INTAKE UNLESS IT IS LOCATION A MIN. 3'-0" ABOVE ANY DOOR, OPERABLE WINDOW & ANY OUTSIDE AIR INTAKE.
17. 1-1/4" HOT WATER, 1-1/4" COLD WATER & 3/4" HOT WATER RETURN LINES DOWN TO WATER HEATERS (WH-1 & WH-2).
18. 1/2" COLD WATER LINE DOWN TO BF.
19. 1/2" COLD WATER LINE DOWN TO ICE MACHINE. PROVIDE FILTERED WATER LINE TO SERVE ICE MAKER WITH WATTS LF800M4QT ANTI-SIPHON VACUUM BREAKER ASSE 1020 RATED. PC TO EXTEND DRAIN LINE TO FLOOR DRAIN WITH AIR GAP.
20. VALVE & CAP 1/2" COLD WATER LINE FOR CONNECTION BY MC. COORDINATE EXACT LOCATION PRIOR TO STARTING ANY WORK.
21. 3/4" HOT & COLD WATER LINES DOWN IN WALL WITH 1/2" HOT & COLD WATER TO LAV & 1/2" HOT & COLD WATER LINES TO SINK.
22. 3/4" HOT & COLD WATER LINES DOWN IN WALL WITH 1/2" HOT & COLD WATER LINE TO EACH SHOWER.



ENLARGED LOCKER ROOM PLUMBING PLAN

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



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PLUMBING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING
	HOT WATER RETURN PIPING
	HOT WATER PIPING
	SANITARY SEWER (BELOW GRADE)
LP	LIQUEFIED PETROLEUM GAS
FD	FLOOR DRAIN
CO	FLOOR CLEANOUT
OW	OIL WASTE PIPING
V	SANITARY VENT PIPING
	CAP ON END OF PIPE
	SHUT-OFF VALVE
GS	GAS SHUT-OFF VALVE
	CHECK VALVE
SV	SHUT-OFF VALVE IN RISER
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
	TEE
	ELBOW
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
TS	TRAP SEAL
TTV	THERMOSTATIC TEMPERING VALVE
WC	WATER CLOSET
UR	URINAL
LAV	LAVATORY
WH	WATER HEATER
ET	EXPANSION TANK
RHWP	RECIRCULATING HOT WATER PUMP
KS	KITCHEN SINK
OS	OIL SEPARATOR
SHWR	SHOWER
FD	FLOOR DRAIN
VTR	VENT THRU ROOF
YCO	YARD CLEANOUT
CO	FLOOR CLEANOUT
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
A.F.F.	ABOVE FINISHED FLOOR
IE	INVERT ELEVATION
PR	GAS PRESSURE REGULATOR

OIL SEPARATOR (OS-1) SIZING

EQUIP. STORAGE - 10,864 SF

SERVICE BAY - 8,055 SF

WASH BAY - 2,565 SF

TOTAL - 21,484 SF

REQUIRED:
6 CF FOR 1ST 100 SF
1 CF FOR EACH ADDITIONAL 100 SF

THEREFORE:

6 CF + (21,484 SF / 100) = 221 CF OR 1,691 GALLON REQUIREMENT

NOTE: 2,000 GALLON PROVIDED.

OIL SEPARATOR (OS-2) SIZING

VEHICLE BAY - 22,116 SF

REQUIRED:
6 CF FOR 1ST 100 SF
1 CF FOR EACH ADDITIONAL 100 SF

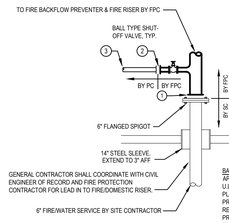
THEREFORE:

6 CF + (22,116 SF / 100) = 227.2 CF OR 1,691 GALLON REQUIREMENT

NOTE: 2,000 GALLON PROVIDED.

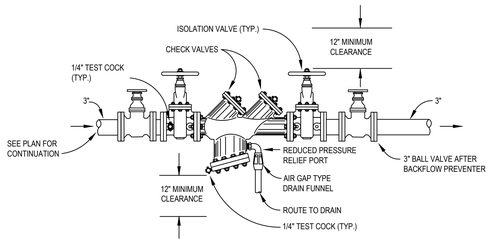
DETAIL TAG NOTES:

1. 6" FIRE/DOMESTIC WATER STUB BY SITE CONTRACTOR. FIRE PROTECTION CONTRACTOR TO EXTEND AND CONNECT 6" FIRE/DOMESTIC WATER PIPING INTO 6" FIRE/DOMESTIC WATER STUB. FIRE PROTECTION CONTRACTOR TO COORDINATE WITH SITE CONTRACTOR FOR FIRE/DOMESTIC WATER STUB.
2. 3" DOMESTIC WATER STUB BY FIRE PROTECTION CONTRACTOR. PLUMBING CONTRACTOR TO EXTEND AND CONNECT 2" DOMESTIC WATER PIPING INTO 2" DOMESTIC WATER STUB. PLUMBING CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR DOMESTIC WATER STUB.
3. 3" DOMESTIC WATER PIPING. REFER TO DOMESTIC WATER SERVICE DETAIL THIS SHEET.



BACKFLOW PREVENTER: FEBCO LF866 SERIES, WATTS 909RPDA SERIES OR APPROVED EQUAL U.L. LISTED REDUCED PRESSURE DETECTOR ASSEMBLY WITH U.L. LISTED SHUT-OFF VALVES AT INLET/OUTLET, BALL TEST COCKS (WITH PLASTIC OR BRASS CAPS AND TETHER, EACH TEST COCK). BACKFLOW PREVENTER SHALL MEET ASSE STANDARD 1047. INSTALL PER MANUFACTURE'S REQUIREMENTS AND NFPA 24. THE CONTRACTOR SHALL HAVE THE BACKFLOW PREVENTER FIELD TESTED BY A CERTIFIED INDIVIDUAL (UPON INSTALLATION OF THE DEVICE). SUBMIT REPORT. THE OWNER IS RESPONSIBLE FOR REQUIRED ANNUAL FIELD TESTING (AFTER INITIAL FIELD TEST).

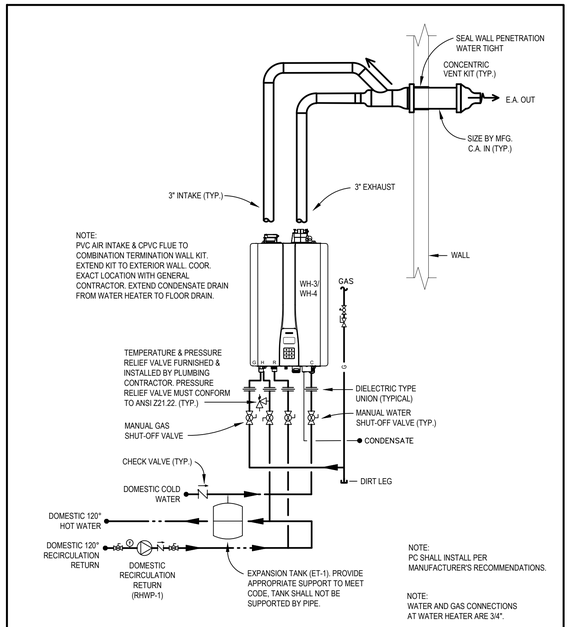
15C SPRINKLER RISER DETAIL
NO SCALE



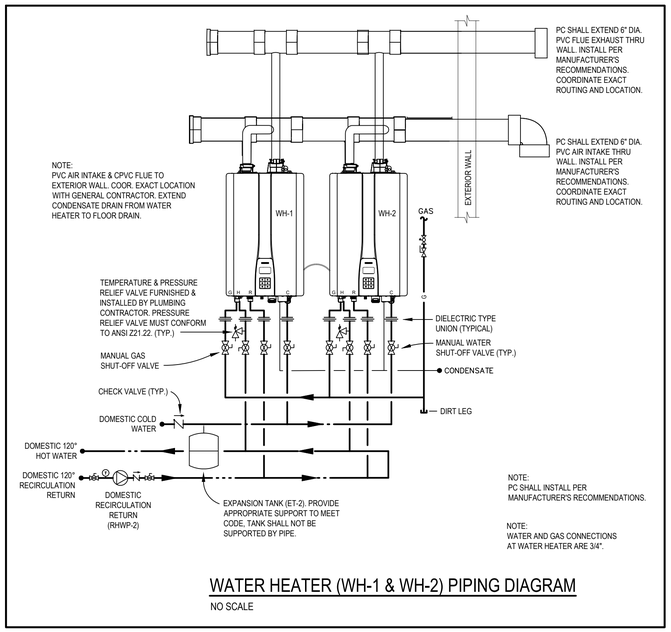
NOTES:

1. PROVIDE A "DRESSER-TYPE" COUPLING ON METER ASSEMBLY INSTALLATIONS TO ALLOW FOR EASY REMOVAL OF FLANGED COMPONENTS.
2. ASSEMBLY TO BE PROPERLY INSTALLED AND ADEQUATELY SUPPORTED TO ALLOW FOR EASY MAINTENANCE, REPAIR AND REPLACEMENT.
3. 3" BACKFLOW PREVENTER (WATTS LF909 LARGE) TO BE PER CITY WATER DEPARTMENT REQUIREMENTS.

BACKFLOW PREVENTER DETAIL
NO SCALE



WATER HEATER (WH-3 & WH-4) PIPING DIAGRAM
NO SCALE



WATER HEATER (WH-1 & WH-2) PIPING DIAGRAM
NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	FIXTURE	FAUCET/VALVE	MTG. HT.	CW	HW	TRAP	ACCESSORIES
WC	WATER CLOSET (HANDICAP)	AM. STD. 270AA.001 CADET	--	16-1/2"	1/2"	--	INTEG.	NOTE-1
WC-A	WATER CLOSET	AM. STD. 270CA.001 CADET	--	15"	1/2"	--	INTEG.	NOTE-1
LAV	LAVATORY	AM. STD. 0355.012 LUCERNE	AM. STD. 7385.003 RELIANT 3	34" TO RIM	1/2"	1/2"	1-1/2"	NOTE-2
UR	URINAL (HANDICAP)	AM. STD. 6501.511 WASHBROOK	SLOAN 186 (1.0 GPF)	15" TO RIM	3/4"	-	INTEG.	NOTE-3
SHWR	SHOWER	AQUATIC 3636BFS FREEDOM LINER	-	-	1/2"	1/2"	3"	NOTE-4
SHWR-A	SHOWER	AQUATIC 6036CFS FREEDOM LINER	-	-	1/2"	1/2"	3"	NOTE-5
KS	KITCHEN SINK	ELKAY DLR-332210 LUSTERTONE	ELKAY LKD-2442-BH	COUNTER	1/2"	1/2"	1-1/2"	NOTE-6
SS	SERVICE SINK	FIAT MSB2424	FIAT 830-AA	FLOOR MTD.	1/2"	1/2"	2"	NOTE-7
SK	SINK W/EYEWASH	ELKAY #91C18X18X	T&S BRASS S-1147	COUNTER	1/2"	1/2"	1-1/2"	NOTE-8
SK-A	HAND WASH FOUNTAIN	BRADLEY SN2003	--	--	1/2"	1/2"	1-1/2"	NOTE-9
BF	BOTTLE FILLER	ELKAY LZWSSM	--	WALL HUNG PER ARCH.	1/2"	--	1-1/2"	NOTE-10

NOTES:

1. FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, 1.6 GPF, SIPHON-ACTION-JET. FURNISH WITH CHURCH #9500C OPEN FRONT SEAT LESS COVER. MOUNT FLUSH LEVER ON OPEN SIDE OF STALL.
2. WALL MOUNTED VITEROUS CHINA, 20"x18" NOMINAL SIZE, FRONT OVERFLOW, SELF-RIMMING FURNISH WITH GRID DRAIN, 0.5 GPM AERATOR, SINGLE LEVER FAUCET WITH EXTRA LONG HANDLE, WASTE DRAIN AND TRAP, SUPPLIES, AND STOPS. INSULATE ALL EXPOSED SANITARY AND DOMESTIC WATER PIPING WITH LAV GUARD PROTECTIVE PIPE COVERS AS MANUFACTURED BY TRUEBRO TO CONFORM WITH ADA REQUIREMENTS.
3. WALL MOUNTED, VITREOUS CHINA, ELONGATED 14" RIM FROM FINISHED WALL, 3/4" TOP SPUD, 1.0 GPF, WASHOUT FLUSH ACTION AND THREADED 2" INSIDE OUTLET CONNECTION. FURNISH WITH WALL HANGER, WASTE DRAIN AND TRAP. VERIFY EXACT MOUNTING HEIGHT OF FIXTURE WITH ARCHITECTURAL DRAWINGS.
4. ACRYLIC CONSTRUCTION, GELCOAT SURFACE, SHOWER 36"Lx36"Wx81"H, SMOOTH FINISH, SLIP-RESISTANT TEXTURE BOTTOM, MOLDED SEAT, 3" BRASS DRAIN. FURNISH WITH PRESSURE BALANCE MIXING VALVE, HAND HELD SHOWER ASSEMBLY WITH SLIDE BAR, CURTAIN ROD AND SHOWER CURTAIN.
5. ACRYLIC CONSTRUCTION, GELCOAT SURFACE, SHOWER 60"Lx36"Wx79"H, SMOOTH FINISH, SLIP-RESISTANT TEXTURE BOTTOM, MOLDED SEAT, 3" BRASS DRAIN. FURNISH WITH PRESSURE BALANCE MIXING VALVE, GRAB BARS, FOLD-UP SEAT, HAND HELD SHOWER ASSEMBLY WITH SLIDE BAR, CURTAIN ROD AND SHOWER CURTAIN.
6. COUNTERTOP MOUNTED 33"x22" NOMINAL SIZE, DOUBLE 10-1/8" DEEP BOWLS, STAINLESS STEEL, SELF RIMMING, 4" CENTERS. FURNISH WITH ELKAY MODEL #LK-3S BACKET STRAINER WITH RUBBER STOPPER, GOOSENECK DECK FAUCET WITH 4" WRIST BLADE HANDLES AND SWING SPOUT. 2.2 GPM SWIVEL ARERATOR, WASTE DRAIN AND TRAP, SUPPLIES AND STOPS.
7. FLOOR MOUNTED 24"x24" NOMINAL SIZE, MOLDED STONE. FURNISH WITH FIAT MODEL #3-77-AA VINYL BUMPER GUARDS, FIAT MODEL #832 HOSE AND BRACKET AND FIAT MODEL #889-CC MOP HANGER.
8. 18 GAUGE SINGLE BOWL STAINLESS STEEL SINK WITH STAINLESS STEEL LEGS, 21"x21-1/2"x42" SINK WITH STAINLESS STEEL GRID DRAIN AND 1-1/2" TAILPIECE. PROVIDE SWIVEL GOOSENECK FAUCET, 8" CENTER, WALL MOUNTED. PROVIDE FAUCET WITH GUARDIAN EYEWASH MODEL G1101 AND GUARDIAN TMV MODEL G6020.
9. BRADLEY CORPORATION "TERREON" DEEP BOWL, ADA COMPLIANT WASHFOUNTAIN. PROVIDE PRE-ASSEMBLE BOWL AND PEDESTAL, 36" DIAMETER SEMI-CIRCULAR BOW, 7-1/2" DEEP, FOOT CONTROL.
10. SELF-CONTAINED, WALL HUNG BOTTLE FILLING STATION, BOTTLE FILLING STATION WITH NO TOUCH SENSOR ACTIVATION WITH AUTOMATIC 20 SECOND SHUT-OFF TIMER, VISUAL USER INTERFACE DISPLAY INCLUDING "GREEN TICKER", ADA COMPLIANT, AND NO LEAD DESIGN, STAINLESS STEEL TOPS, RECEPTACLE ADAPTOR PLUG, REGULATOR, WALL HANGER. PROVIDE CHROME P-TRAP WITH CLEANOUT AND CHROME SUPPLIES WITH DIELECTRIC COUPLING AND SERVICE STOPS. ELECTRICAL DATA: 115V, 1 PHASE, 60 HZ. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.

PLUMBING EQUIPMENT SCHEDULE:

WATER HEATER (WH-1, WH-2, WH-3 & WH-4):
NAVIEN AMERICA INC. GAS-FIRED WATER HEATER, MODEL NO. NPE-240A2, TANKLESS, 199.9 MBH INPUT WITH A RECOVERY CAPACITY OF 5.1 GPM @ 77 DEG. F TEMPERATURE RISE, 120V & EFFICIENCY OF 0.98 EF WITH INTEGRAL CIRCULATION PUMP. HEATER SHALL BE EQUIPPED WITH AN AUTOMATIC GAS SHUT-OFF DEVICE. FURNISH & INSTALL AN ASME TEMPERATURE/PRESSURE RELIEF VALVE.

EXPANSION TANK (ET-1):
AMTROL "THERM-X-TROL" MODEL #ST-12, 4.4 GALLON TANK VOLUME, NON-ASME CONSTRUCTION, 3/4" SYSTEM CONNECTION (OR SIMILAR-OWNER APPROVED).

EXPANSION TANK (ET-2)
AMTROL "THERM-X-TROL" MODEL ST-5, 2.1 GALLON TANK VOLUME, NON-ASME CONSTRUCTION, 3/4" SYSTEM CONNECTION.

FLOOR DRAIN (FD):
J.R. SMITH MODEL NO. 2010-A-P050 DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE NICKEL BRONZE STRAINER HEAD AND ROUND TOP.

TRAP SEAL (TS):
FLOOR DRAIN TRAP SEAL SHALL BE GREEN DRAIN SERIES INLINE FLOOR DRAIN TRAP SEAL WITH UV RESISTANT ABS PLASTIC FRAME, SILICONE RUBBER SEALING FLAPPER AND FOUR FLEXIBLE SEALING RIBS, TESTED AND CERTIFIED TO ASSE 1072 STANDARD AND LISTED WITH IAPMO AND I.C.C.

THERMOSTATIC TEMPERING VALVE (TTV)
SYMMONS "MAXLINE" MODEL 7-210-CK WITH A MINIMUM OF .5 GPM AND 2 GPM @ 10 PSI PRESSURE DIFFERENTIAL.
NOTE: TEMPERING VALVE SHALL BE LISTED TO ASSE 1070 STANDARD AND SHALL LIMIT THE TEMPERED WATER TO A MAXIMUM OF 100 DEG. F.

FLOOR CLEANOUT (CO)
J.R. SMITH MODEL 4020 DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP. NOTE: WHERE CLEANOUTS ARE INSTALLED IN CARPETED AREAS PROVIDE WITH CARPET CLAMPING FRAME (SUFFIX-X)

FROST PROOF HOSE BIBB (HB)
WOODFORD MODEL B-65 ANTI-SIPHON, NON-FREEZE WALL HYDRANT WITH 3/4" HOSE CONNECTION, INTEGRAL VACCUM BREAKERS, 3/4" INLET, LOOSE KEY TO OPERATE HYDRANT WITH LOCKING COVER.

HOSE BIBB (HB)
WOODFORD MODEL 86, DOUBLE CHECK BACKFLOW PREVENTER, ASSE STANDARD 1052, 3/4" MALE THREAD CONNECTION, 3/4" INLET, LOOSEKEY OPERATION, AUTOMATIC DRAIN, CHROME PLATED FINISH.

YARD CLEANOUT (YCO)
J.R. SMITH MODEL NO. 4231 DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE HEAVY DUTY CAST IRON TOP.

OIL SEPARATOR (OS-1)
E.C. BABBERT OR EQUAL BY MACK INDUSTRIES, PRE-CAST CONCRETE, 1500 GALLON CAPACITY, MODEL #_, COMPLETE WITH CAST IRON MANHOLES, COVERS, GRADE ADJUSTABLE RINGS, 6" INLETS/OUTLETS, 3" VENT OPENING.

OIL SEPARATOR (OS-2)
E.C. BABBERT OR EQUAL BY MACK INDUSTRIES, PRE-CAST CONCRETE, 2000 GALLON CAPACITY, MODEL #_, COMPLETE WITH CAST IRON MANHOLES, COVERS, GRADE ADJUSTABLE RINGS, 6" INLETS/OUTLETS, 3" VENT OPENING.

EMERGENCY EYEWASH (EW-1)
BRADLEY MODEL S19-2228 WALL MOUNTED EYE / FACE WASH UNIT. COMPLETE WITH WALL BRACKET, 10-3/4" DIAMETER STAINLESS STEEL EYE WASH BOWL, TWIN ABS PLASTIC EYE WASH SPRAYER HEADS WITH COVERS, 1/2" STAY-OPEN BALL VALVE, LARGE SAFETY YELLOW PUSH HANDLE, 1-1/4" DRAIN FITTING AND TAILPIECE, 1/2" WATER SUPPLY, ANSI Z358.1 COMPLIANCE. PROVIDE COMPLETE WITH BRADLEY "NAVIGATOR" S19-2000EFX8 EMERGENCY THERMOSTATIC MIXING VALVE, ANSI Z358.1 TEPID WATER REQUIREMENTS.
NOTE: OTHER SIMILAR MANUFACTURERS AS APPROVED BY OWNER.

COMBINATION EMERGENCY EYEWASH / SHOWER (EW-2):

BRADLEY MODEL S19314PDC COMBINATION DRENCH SHOWER AND HALO EYEWASH WITH DUST COVER. ANSI / ISEA Z358.1 RATED. 1-1/4" NPT WATER SUPPLY INLET. EYEWASH - INTEGRAL 5.1 GPM FLOW RATE. SHOWER - INTEGRAL 22 GPM FLOW RATE. PROVIDE COMPLETE WITH MODEL S19-2150 EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

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WDC GROUP

REVISIONS:

vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
PLUMBING SCHEDULES & DETAILS

PROJECT NO.: 23014
DRAWN BY: MT
DATE: 05-18-2026
CHECKED BY: NAM

P3.1
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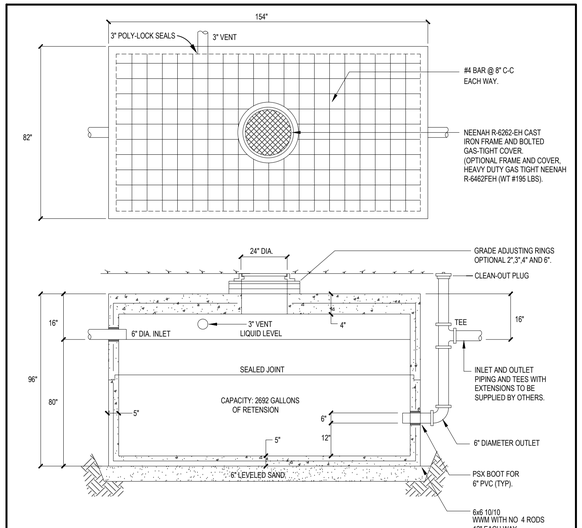

OIL SEPARATOR (OS) DETAIL

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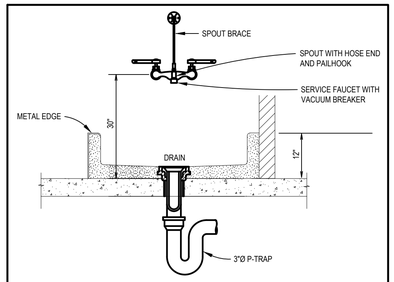

MOP SINK DETAIL

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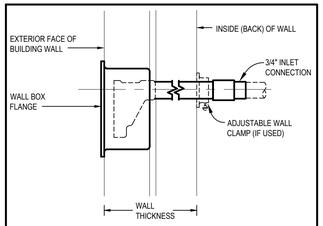

FROST PROOF HOSE BIBB (FPHB)

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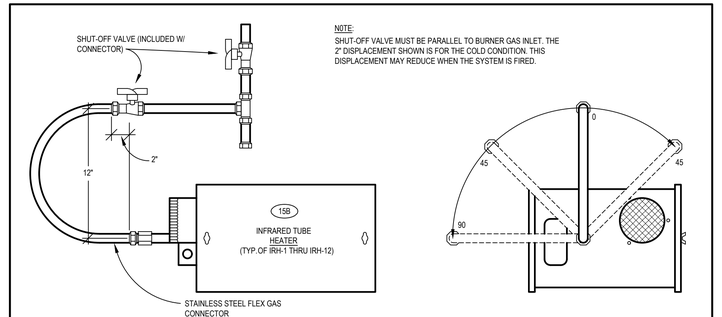

INFRARED HEATER - GAS LINE CONNECTION WITH STAINLESS STEEL FLEX GAS CONNECTOR DETAIL

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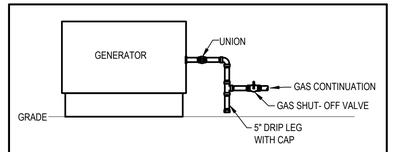

PIPE CONNECTION DETAIL

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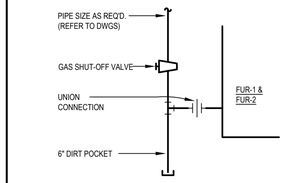

TYPICAL GAS CONNECTION FOR GAS FIRED EQUIPMENT

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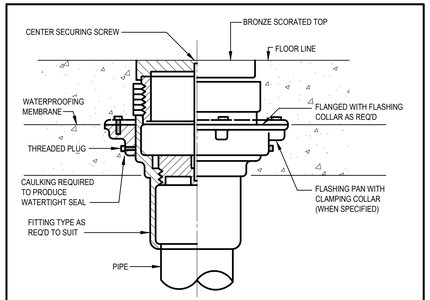
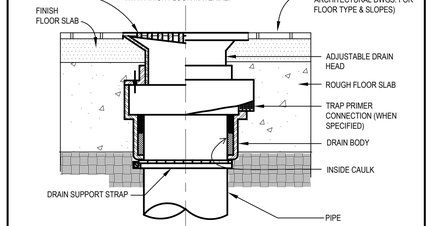


FLOOR CLEANOUT (CO) DETAIL

NO SCALE



FLOOR DRAIN (FD) DETAIL

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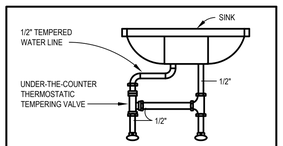

THERMOSTATIC TEMPERING VALVE (TTV) DETAIL

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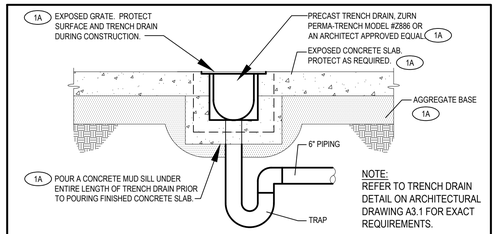

TRENCH DRAIN DETAIL

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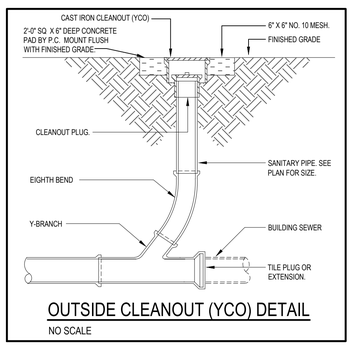

OUTSIDE CLEANOUT (YCO) DETAIL

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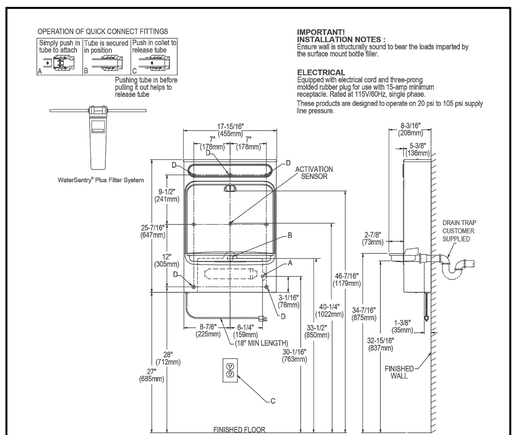

BOTTLE FILLER DETAIL

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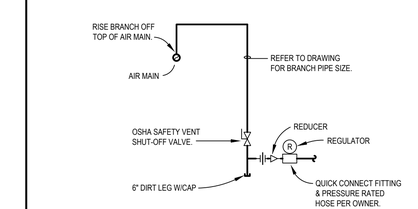

TYPICAL COMPRESSED AIR CONNECTION TO EQUIPMENT DIAGRAM

NO SCALE

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WDC GROUP

REVISIONS:

vandalia ohio small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA VANDALIA, OHIO 45377

PLUMBING DETAILS

PROJECT NO.:	23014
DRAWN BY:	MT
DATE:	05-18-2026
CHECKED BY:	NAM

P3.2

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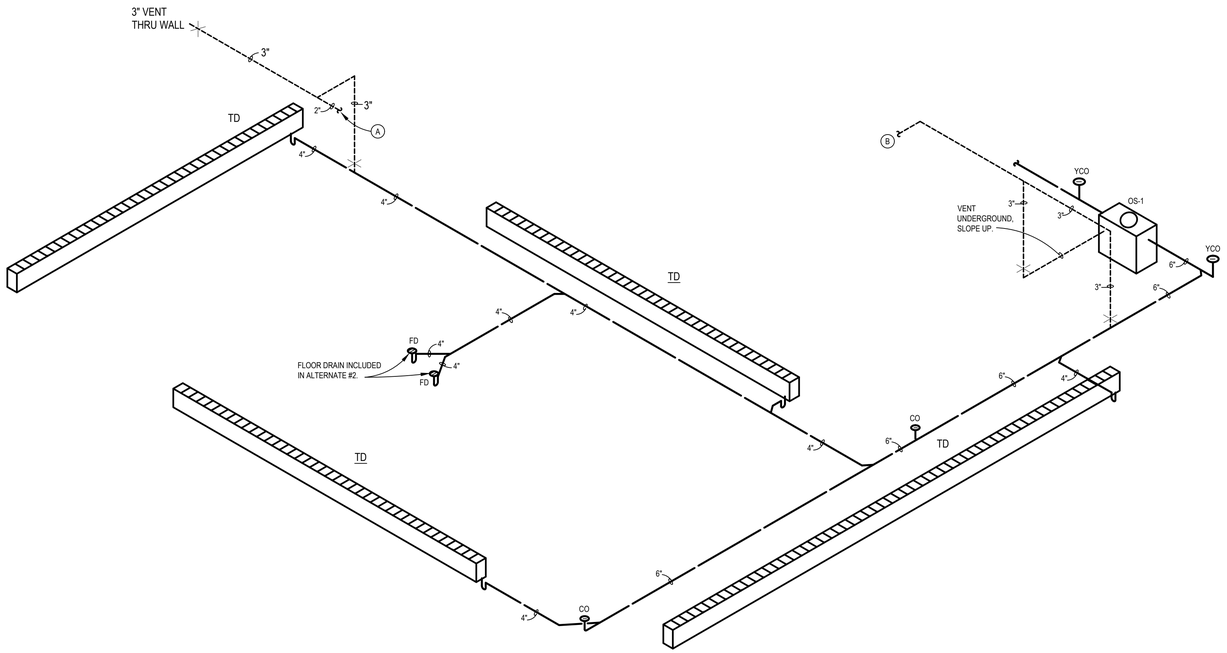

SANITARY SCHEMATIC 'A' (PLAN C & PLAN D)

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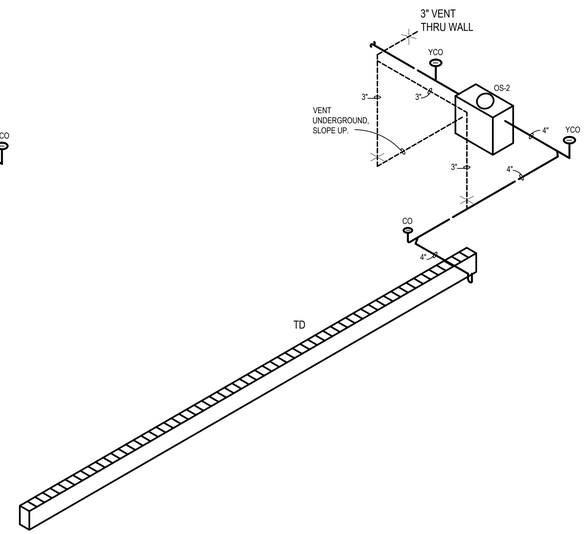

SANITARY SCHEMATIC 'B' (PLAN B)

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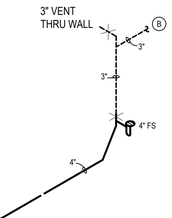

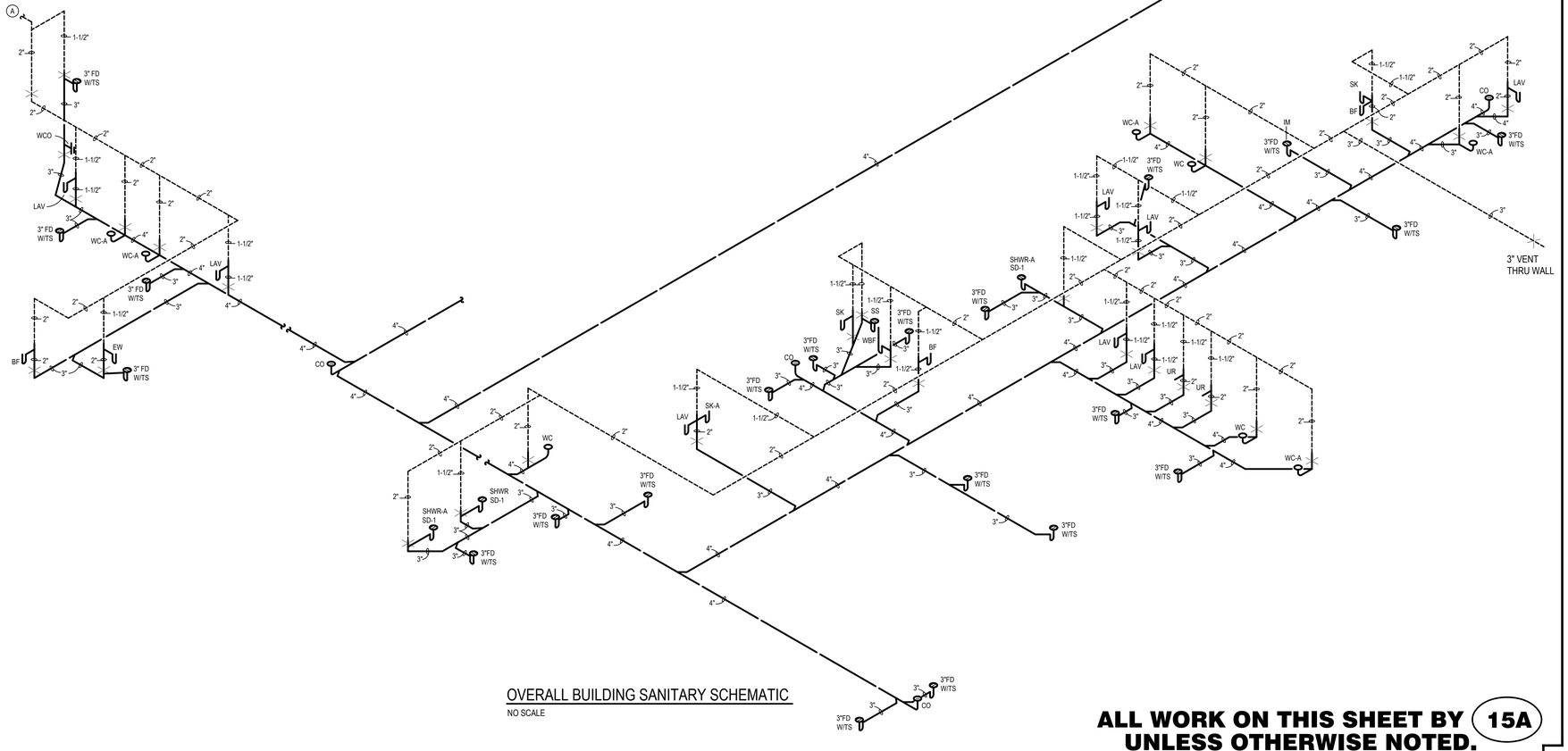

OVERALL BUILDING SANITARY SCHEMATIC

NO SCALE

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PUBLIC WORKS FACILITY
FOR
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VANDALIA, OHIO 45377
PLUMBING SCHEMATIC

PROJECT NO.:	23014
DRAWN BY:	MT
DATE:	05-18-2026
CHECKED BY:	NAM

P3.3

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MECHANICAL GENERAL

A. THE CONTRACTOR FOR THIS WORK IS REFERRED TO "INSTRUCTIONS TO BIDDERS" AND "GENERAL CONDITIONS" AND "SPECIAL CONDITIONS" AS PART OF THIS CONTRACT.

B. CONTRACTOR ALSO REFERRED TO ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER OWNER DRAWINGS PERTAINING TO PROJECT. ALL OF ABOVE MENTIONED DRAWINGS, AS WELL AS THEIR RESPECTIVE SPECIFICATIONS, ARE A PART OF CONTRACT DOCUMENTS.

C. MECHANICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER, FURNISH ANY MATERIAL OR LABOR CALLED FOR IN ONE EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH.

D. INSTALL AND CONNECT EQUIPMENT, SERVICES AND MATERIALS IN ACCORDANCE WITH BEST ENGINEERING PRACTICE AND ACCORDANCE WITH VARIOUS MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. FURNISH AND INSTALL COMPLETE AUXILIARY PIPING, VALVES, WATER SEALS, ELECTRICAL CONNECTIONS, ETC., RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION.

E. FURNISH MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS OR CALLED FOR IN SPECIFICATIONS BUT WHICH IS OBVIOUSLY A COMPONENT PART OF AND NECESSARY TO COMPLETE WORK OF SIMILAR CHARACTER.

F. THIS CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS OR LICENSES REQUIRED TO CARRY OUT THIS WORK. HE SHALL PAY FOR ALL CHARGES MADE BY INSPECTION. NOTE: ALL CONTRACTORS SHALL BE LICENSED IN THE COUNTY, CITY, ETC. TO PERFORM ALL NEW WORK.

G. THIS CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND ALL LOCAL LEGAL REQUIREMENTS. ALL LAWS, RULES AND REGULATIONS OF STATE AND LOCAL GOVERNING AGENCIES SHALL BE CONSIDERED A PART OF THESE SPECIFICATIONS AS FULLY AS IF WRITTEN HEREIN. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY CHANGES NECESSARY FOR CODE COMPLIANCE REGARDLESS OF THE METHOD OF INSTALLATION SHOWN ON THE DRAWINGS OR SPECIFIED.

H. THIS CONTRACTOR SHALL TAKE OUT PERMIT WITH PROVISIONS OF INSPECTION BEFORE STARTING ANY WORK. FEE FOR SAME SHALL BE PART OF THIS CONTRACT.

I. WHEN WORK IS COMPLETED, THIS CONTRACTOR SHALL FURNISH TO THE ARCHITECT CERTIFICATES OF APPROVAL FROM THE RESPONSIBLE INSPECTION AGENCIES BEFORE FINAL PAYMENT OF CONTRACT WILL BE ALLOWED.

J. TESTING OF ALL WORK UNDER THIS CONTRACT SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL APPARATUS, EQUIPMENT, FIXTURES, ETC., SHALL FULLY MEET THE REQUIREMENTS OF THESE SPECIFICATIONS AND DRAWINGS.

K. INSTALL FINAL APPLICATION OF LUBRICATION OIL, REFRIGERANT CHARGE, AND ALL OTHER SUPPLIES NECESSARY TO PLACE THE EQUIPMENT IN OPERATION.

L. CONTRACTOR SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

M. ALL POWER WIRING OF MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. FURNISH THE ELECTRICAL CONTRACTOR WIRING DIAGRAMS FOR ALL ELECTRICALLY POWERED EQUIPMENT PROVIDED WITH THE CONTRACT WHICH SHALL INDICATE THE SERVICE REQUIRED AND ELECTRIC LOAD INVOLVED.

N. THIS CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS, AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THIS CONTRACT INVOLVES REMODELING OF EXISTING BUILDING AND THEREFORE SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING AND SEWERS BEFORE STARTING WORK.

O. SUBMIT SHOP DRAWINGS, CATALOG SHEETS FOR EQUIPMENT, FIXTURES, DUCTWORK LAYOUT, WIRING DIAGRAMS, ETC., IN PDF FORMAT TO THE ARCHITECT FOR REVIEW. EACH CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE APPROVED SHOP DRAWINGS TO ALL OTHER TRADES AFFECTED BY HIS WORK, EQUIPMENT, ETC., FOR COORDINATION.

P. ASSEMBLE AND SUBMIT TO THE ARCHITECT FOR SUBSEQUENT SUBMISSION TO THE OWNER, THREE (3) COMPLETE SETS OF OPERATIONS MANUALS AND MAINTENANCE REQUIREMENTS, COPY OF FIXTURE CUTS WITH MANUFACTURER'S NAME AND MODEL NUMBER, EQUIPMENT WARRANTIES, ETC., FOR EACH ITEM FURNISHED.

Q. ALL CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES (GENERAL CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, ETC.) AFFECTED BY THAT PIECE OF EQUIPMENT (ROOF OPENINGS, WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC.) PRIOR TO ORDERING EQUIPMENT AND AGAIN PRIOR TO INSTALLATION (ROOFTOP EQUIPMENT PRIOR TO LIFTING ONTO ROOF). NO EXTRA COMPENSATION WILL BE APPROVED IF COORDINATION IS NOT PERFORMED BY EACH RESPECTIVE CONTRACTOR AND SUBCONTRACTOR.

R. CONTRACTOR HAS EXAMINED THE CONTRACT DOCUMENTS AND REPRESENTS TO OWNER THAT THE CONTRACT DOCUMENTS ARE COMPLETE AND SUFFICIENT AND INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK FOR THE CONTRACT SUM. CONTRACTOR FURTHER REPRESENTS THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS BECOME FAMILIAR WITH THE ACCESS REQUIREMENTS AND OTHER CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS RECEIVED ALL CLARIFICATIONS NEEDED BY CONTRACTOR TO ASSURE ITSELF THAT THE WORK CAN BE PERFORMED FOR THE CONTRACT SUM. IF THERE IS ANY INCONSISTENCY IN THE QUALITY OR QUANTITY OF WORK REQUIRED UNDER THE CONTRACT DOCUMENTS, OR SHOULD THE DRAWINGS AND SPECIFICATIONS APPEAR TO BE IN DISAGREEMENT WITH EACH OTHER RELATIVE TO THE QUALITY OR QUANTITY OF WORK REQUIRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY UNLESS WRITTEN INSTRUCTIONS ARE OTHERWISE FURNISHED TO CONTRACTOR BY OWNER.

S. DEVIATIONS FROM THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN OWNER OR ARCHITECT CONSENT WILL BE AT RISK TO THE G.C. ANY EFFORT MADE BY THE ARCHITECT AND/OR ENGINEER TO MODIFY THE CONSTRUCTION DOCUMENTS OR LETTERS OF RESPONSIBILITY FOR APPROVAL BY INSPECTORS DUE TO WORK PERFORMED BY CONTRACTOR OTHER THAN THE ORIGINAL DESIGN WILL BE BILLED TO CLIENT WHO WILL BACK CHARGE TO G.C. AS A DEDUCT FROM THEIR PAYMENTS.

T. NOTE: THE MECHANICAL AND PLUMBING CADD FILES OF THE CONSTRUCTION DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF POINT ONE DESIGN, LLC, AND WILL NOT BE AVAILABLE FOR THE CONSTRUCTION PHASE UNLESS MET WITH A REDUCTION IN COST TO THE OWNER AND/OR PURCHASED AT A NOMINAL RATE PER DRAWING (TO BE NEGOTIATED).

U. FIRESTOPPING
1. MANUFACTURERS: DOW CORNING CORP., HILTI CORP., 3M FIRE PROTECTION PRODUCTS, SPECIFIED TECHNOLOGY INC., OR METRAFLEX.
2. PRODUCT DESCRIPTION: DIFFERENT TYPES OF PRODUCTS BY MULTIPLE MANUFACTURERS ARE ACCEPTABLE AS REQUIRED TO MEET SPECIFIED SYSTEM DESCRIPTION AND PERFORMANCE REQUIREMENTS; PROVIDE ONLY ONE TYPE FOR EACH SIMILAR APPLICATION.
   A) SILICONE FIRESTOPPING ELASTOMERIC FIRESTOPPING: SINGLE OR MULTIPLE COMPONENT SILICONE
   B) ELASTOMERIC COMPOUND AND COMPATIBLE SILICONE SEALANT.
   C) FOAM FIRESTOPPING COMPOUNDS: SINGLE OR MULTIPLE COMPONENT FOAM COMPOUND.
   D) FORMULATED FIRESTOPPING COMPOUND OF INCOMBUSTIBLE FIBERS: FORMULATED COMPOUND MIXED WITH INCOMBUSTIBLE NON-ASBESTOS FIBERS.
   E) FIBER STUFFING AND SEALANT FIRESTOPPING: COMPOSITE OF MINERAL FIBER STUFFING INSULATION WITH SILICONE ELASTOMER FOR SMOKE STOPPING.
   F) MECHANICAL FIRESTOPPING DEVICE WITH FILLERS: MECHANICAL DEVICE WITH INCOMBUSTIBLE FILLERS AND SILICONE ELASTOMER, COVERED WITH SHEET STAINLESS STEEL JACKET, JOINED WITH COLLARS, PENETRATION SEALED WITH FLANGED STOPS.
   G) INTUMESCENT FIRESTOPPING: INTUMESCENT PUTTY COMPOUND WHICH EXPANDS ON EXPOSURE TO SURFACE HEAT GAIN.
   H) FIRESTOP PILLOWS: FORMED MINERAL FIBER PILLOWS.

15A

PLUMBING SPECIFICATIONS

A. CONNECT SEWER, STORM, GAS, VENTS AND WATER LINES AS INDICATED ON THE PLUMBING PLANS. DETERMINE THE EXACT LOCATION OF ALL EXISTING SERVICE CONNECTIONS BEFORE STARTING THE INSTALLATION OF ANY WORK. COORDINATE ALL WORK WITH OTHER TRADES, THE GENERAL CONTRACTOR AND THE OWNER'S FIELD REPRESENTATIVE.

B. PLUMBING WORK SHALL CONFORM TO GOOD ENGINEERING PRACTICE AND BE IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES AND OWNER'S REQUIREMENTS. PLUMBING CONTRACTOR SHALL BE LICENSED IN THIS AREA TO PERFORM THE NEW WORK.

C. SANITARY SEWERS, VENTS AND STORM INSIDE OF THE BUILDING SHALL BE SERVICE WEIGHT, CAST IRON, NO HUB WITH COMPRESSION TYPE NEOPRENE JOINTS. PVC SCHEDULE 40 PIPING SHALL BE AN ACCEPTABLE MATERIAL.

D. ALL COLD AND HOT WATER LINES SHALL BE TYPE 'L' COPPER WITH 98-2 TIN ANTIMONY (NO LEAD) SOLDER.

E. GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. GAS PIPING COMPOUND AT JOINTS SHALL BE PER NFPA BULLETIN #54 AND LOCAL CODES. GAS VALVES SHALL BE UL LISTED FOR GAS SERVICE SUCH AS DEZURICK MODEL S-425 FOR 2" AND LESS.

F. INSULATE ALL HOT, RETURN HOT AND COLD WATER PIPING (BELOW OR ABOVE FLOOR SLAB) WITH NONCOMBUSTIBLE ARMSTRONG "ARMAFLEX" TYPE II FOAM INSULATION WITH SEALED JOINTS. PIPING LOCATED ABOVE FLOOR SLAB CAN ALSO BE INSULATED WITH OWENS CORNING FIBERGLASS ASJ/SSL-II HEAVY DENSITY PIPE INSULATION WITH VAPOR BARRIER AND SEALED JOINTS (NOTE: FIBERGLASS INSULATION IS NOT ACCEPTABLE FOR BELOW FLOOR SLAB). INSULATION THICKNESS SHALL BE AS FOLLOWS:

• COLD WATER PIPING UP TO 1-1/4"	1/2" THICKNESS
• COLD WATER PIPING 1-1/2" AND OVER	1" THICKNESS
• HOT WATER PIPING UP TO 1-1/4"	1" THICKNESS
• HOT WATER PIPING 1-1/2" AND OVER	1-1/2" THICKNESS
• RETURN HOT WATER PIPING UP TO 1-1/4"	1" THICKNESS
• RETURN HOT WATER PIPING 1-1/2" AND OVER	1-1/2" THICKNESS

G. PLUMBING CONTRACTOR SHALL INSTALL SHOCK ABSORBERS IN PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER, WHERE NECESSARY. BRANCH PIPING SHALL HAVE ACCESSIBLE SERVICE VALVES. PROVIDE SHUT-OFF VALVES IN THE SUPPLY PIPING TO EVERY FIXTURE.

H. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL HERSEY MODEL FDC-2" BRONZE BACKFLOW PREVENTER COMPLETE WITH DUAL CHECK VALVE DEVICE WITH REPLACEABLE CORROSION FREE CHECKS, MAXIMUM FLOW 60 GPM, MAXIMUM PRESSURE 175 PSI, TEMPERATURE RANGE FROM 35 DEGREES TO 145 DEGREES F AND THE PRESSURE DROP SHALL NOT EXCEED 6 PSI. WATER METER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL WATER COMPANY REQUIREMENTS. REMOTE READOUT SHALL BE INSTALLED IN A LOCATION AS DIRECTED BY WATER COMPANY.

I. PLUMBING CONTRACTOR SHALL PROVIDE 1 SET OF 'AS-BUILT' DRAWINGS TO THE OWNER.

J. CHLORINATION OF WATER PIPING: THE DOMESTIC WATER PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL CONTAMINATED WATER DOES NOT APPEAR AT THE OUTLET AND SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR A PERIOD (AS PRESCRIBED BY THE CODE) BEFORE FLUSHING. THE SYSTEM SHALL BE FLUSHED COMPLETELY WITH CLEAR WATER UNTIL ALL RESIDUAL CHLORINE CONTENT IS REMOVED. CHLORINATION SHALL BE PERFORMED AFTER ALL PIPING AND FINAL CONNECTIONS AND PRESSURE TESTING HAS BEEN COMPLETED. IF, AFTER THE PIPES HAVE BEEN CHLORINATED, THE PIPES HAVE TO BE DISMANTLED, THE CHLORINATION PROCESS MUST BE REPEATED.

K. LABOR SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY MECHANICS SKILLED IN THEIR PARTICULAR TRADE. PIPE AND EQUIPMENT SHALL BE INSTALLED SQUARE AND PLUMB AND ACCESSIBLE FOR PROPER OPERATION AND SERVICE.

L. CUTTING OR PATCHING NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

M. PROVIDE ANY NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED AND WELL TAMPED TO GRADE WITH APPROVED MATERIAL.

N. PIPING

1. ALL PIPING SHALL BE RUN CONCEALED EXCEPT WHERE SHOWN OTHERWISE ON DRAWINGS.
2. VALVES, TRAPS, CLEANOUTS AND OTHER APPARATUS SHALL BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION.
3. SOIL WASTE, STORM, VENT, OFFSETS AND HOUSE DRAINS SHALL BE INSTALLED WITH A MINIMUM UNIFORM GRADE OF 1/8" TO THE FOOT FOR 3" THRU 6" PIPE AND 1/4" TO THE FOOT FOR 2-1/2" AND LESS.
4. HOT AND COLD WATER LINES SHALL BE AT LEAST 12" APART WHERE PIPING IS PARALLEL.
5. ESCUTCHEON PLATES SHALL BE PROVIDED WHERE ALL PIPE PASSES THROUGH A FINISHED WALL.
6. CONNECTIONS FROM STEEL TO COPPER PIPING SHALL BE MADE WITH DIELECTRIC TYPE UNIONS, EPCO OR OTHER APPROVED TYPE.

O. COPPER PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 7'-0" AND AT EACH CHANGE IN HORIZONTALS OF VERTICAL. HANGERS SHALL SUPPORT PIPING AT PIPE WITH INSULATION OVER TOP OR WITH METAL SLEEVE TO PROTECT INSULATION FROM BEING CRUSHED.

1. HANGER SHIELD: HANGERS FOR PIPING SHALL BE PLACED AROUND THE OUTSIDE OF THE INSULATION AND PROTECTIVE SHIELDS SHALL BE INSTALLED AT EVERY HANGER LOCATION. SHIELD SHALL NOT BE LESS THAN 2/3 THE CIRCUMFERENCE OF THE INSULATION AND WHERE SPEED CLIPS ARE USED, THE METAL SHIELD SHALL BE CONTINUOUS AROUND THE CIRCUMFERENCE OF THE PIPE INSULATION. SHIELDS SHALL BE FABRICATED OF THE FOLLOWING GAUGES:

NOMINAL PIPE SIZE	METAL GAUGE
0" - 1-1/2"	20
2" - 3"	16
3-1/2" AND UP	14

P. CLEAN OUT ALL LINES, ADJUST ALL VALVES AND CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT. ROUT OUT ALL EXISTING SANITARY SEWERS BEING TIED INTO TO INSURE THE PROPER FLOW. PLUMBING CONTRACTOR TO FURNISH AND INSTALL CLEAR SILICONE CAULK AROUND PERIMETER OF PLUMBING FIXTURES.

Q. AFTER THE PLUMBING PIPING HAS BEEN INSTALLED, INSPECTED AND APPROVED, THE PIPING SYSTEM SHALL BE FLUSHED TO REMOVE ANY FOREIGN MATTER FROM THE PIPES.

R. ALL PARTS OF THE PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE GUARANTEE PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.

S. NOTE: ALL PIPE INSULATION (HOT, RECIRCULATING HOT AND COLD PIPE INSULATION, ROOF DRAIN SUMPS, STORM LEADERS AND DOWNSPOUTS) SHALL CONFORM TO THE FIRE AND SMOKE RATES BELOW:

FLAME SPREAD - 25 OR LESS
SMOKE DEVELOPED - 50 OR LESS

T. GENERAL REQUIREMENTS OF PLUMBING FIXTURES AND TRIM:

1. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL STOPS, TRAPS, ESCUTCHEONS, CONNECTIONS, ETC., AS NECESSARY FOR A COMPLETE INSTALLATION.
2. TERMINATE ALL WATER ROUGH-INS WITH SHUT-OFF VALVES BEFORE CONNECTING EQUIPMENT AND FIXTURES.
3. PURGE ALL WATER LINES BEFORE MAKING FINAL CONNECTIONS.
4. FLASH AND COUNTERFLASH ALL OPENINGS THRU ROOFS WITH APPROVED ROOFING MATERIALS BUILT A MINIMUM OF 10" INTO THE ROOFING IN ALL DIRECTIONS FROM THE OUTSIDE OF THE PIPE.
5. WATER AND WASTE LINES TO BE ROUGHED INSIDE WALLS; EXTEND WATER AND WASTE LINES OUT OF WALLS TO EQUIPMENT AND FIXTURES.
6. WHERE THE WORD "FURNISH" OR "INSTALL" APPEARS FOR THE PLUMBING CONTRACT, IT SHALL BE INTERPRETED TO MEAN THE PLUMBING CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SUPPLIES NECESSARY TO INSTALL AND PLACE IN OPERATION CONDITION.
7. GENERAL WATER PRESSURE SHALL NOT EXCEED 60 PSI. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVES FOR WATER AS REQUIRED.

15A

PLUMBING SPECIFICATIONS CONTINUED

U. EXCAVATION AND BACKFILL

1. PERFORM ALL EXCAVATION AND BACKFILL NECESSARY FOR INSTALLATION OF WORK.
2. REFER TO DIVISION 2 - SITEWORK FOR ADDITIONAL SPECIFIC ITEMS OF EXCAVATION AND BACKFILL REQUIRED UNDER THE DIVISION.
3. ALL EXCAVATED MATERIALS IN BUILDING INTERIORS, SHALL BE LOADED ON TRUCKS IMMEDIATELY UPON DIGGING AND REMOVED FROM THE BUILDING. THE MATERIAL MAY BE DEPOSITED ON SITE IF AGREED TO BY THE GENERAL CONTRACTOR FOR HIS USE. IF NOT REQUIRED FOR SITE FILL, THEN EXCAVATED MATERIALS MUST BE REMOVED FROM THE SITE IMMEDIATELY.
4. EXISTING SUB-GRADE, BOTH INTERIOR AND EXTERIOR SHALL BE RESTORED AS A PART OF THIS WORK, UPON INSTALLATION OF UNDERGROUND WORK.
5. EXCAVATION FOR TRENCHES WITHIN 3 FT. OF THE EDGE OF ANY FOOTING AND BELOW THE ELEVATION OF BOTTOM OF FOOTING, SHALL BE BACKFILLED WITH 3000 LB. CONCRETE MIX TO THE LEVEL OF FOOTING.
6. SHORE OR SHEET PILE TRENCHES AS NECESSARY TO PREVENT CAVING. DO NOT ENDANGER WORK OF OTHER CONTRACTORS OR EXISTING STRUCTURES.
7. TRENCHES FOR UNDERGROUND SEWERS, INTERIOR AND EXTERIOR, SHALL BE EXCAVATED 4" BELOW GRADE AND DEPTH REQUIRED. PLACE 4" LAYER OF PEA GRAVEL (OR BANK RUN SAND) AND INSTALL PIPE. BACKFILL WITH PEA GRAVEL TO 12" ABOVE PIPE.
8. BACKFILL TO FINISH SUB-GRADE ON THE INTERIOR OF BUILDING, UNDER ALL PAVED AREAS AND SIDEWALKS WITH BANK-RUN GRAVEL. MECHANICALLY COMPACT IN LAYERS NOT TO EXCEED 8".
9. BACKFILL TO FINISH SUB-GRADE FOR EXTERIOR TRENCHES NOT UNDER PAVED AREAS OR SIDEWALK WITH SAND OR SELECT MATERIAL EXCAVATED TO 6" ABOVE FINISH SUB-GRADE.
10. PROVIDE, OPERATE PUMPING EQUIPMENT AS NECESSARY TO KEEP TRENCHES, OTHER EXCAVATIONS FREE OF WATER.
11. WHEN EXCAVATION IS NECESSARY IN AN EXISTING LAWN, RESOD TO MATCH EXISTING LAWN, AS APPROVED.
12. WHERE TRENCHES CROSS ROADS, WALKS OR PUBLIC THOROUGHFARES, PROVIDE SUITABLE BARRICADES AND BRIDGES ADEQUATELY PROTECTED BY SIGNS OR RED FLAGS DURING DAY AND LIGHTS AT NIGHT.
13. REPAVE ALL STREETS OR SIDEWALKS DISTURBED AT CONTRACTOR'S EXPENSE, TO SATISFACTION OF ARCHITECT AND AUTHORITIES HAVING JURISDICTION.
14. WHERE BUILDING SERVICE LINES ENTER OR LEAVE BUILDING SUCH AS WATER, SEWER, AND ARE INSTALLED ON FILLED EARTH, PROVIDE CONTINUOUS SUPPORT ON A REINFORCED CONCRETE BEAM FURNISHED AND INSTALLED AS A PART OF THIS WORK. SUPPORT BEAM ON BUILDING END WITH VERTICAL SUPPORT DOWN TO FOUNDATION FOOTING AND ON UNDISTURBED EARTH AT OTHER END.

V. DEWATERING:

1. PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
2. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINES, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS.
3. ESTABLISH AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS TO CONVEY RAIN WATER AND WATER REMOVED FROM EXCAVATIONS TO COLLECTING OR RUNOFF AREAS. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

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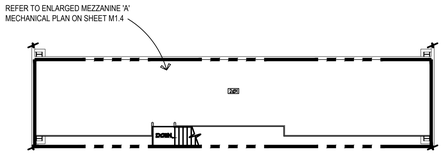
WDC GROUP

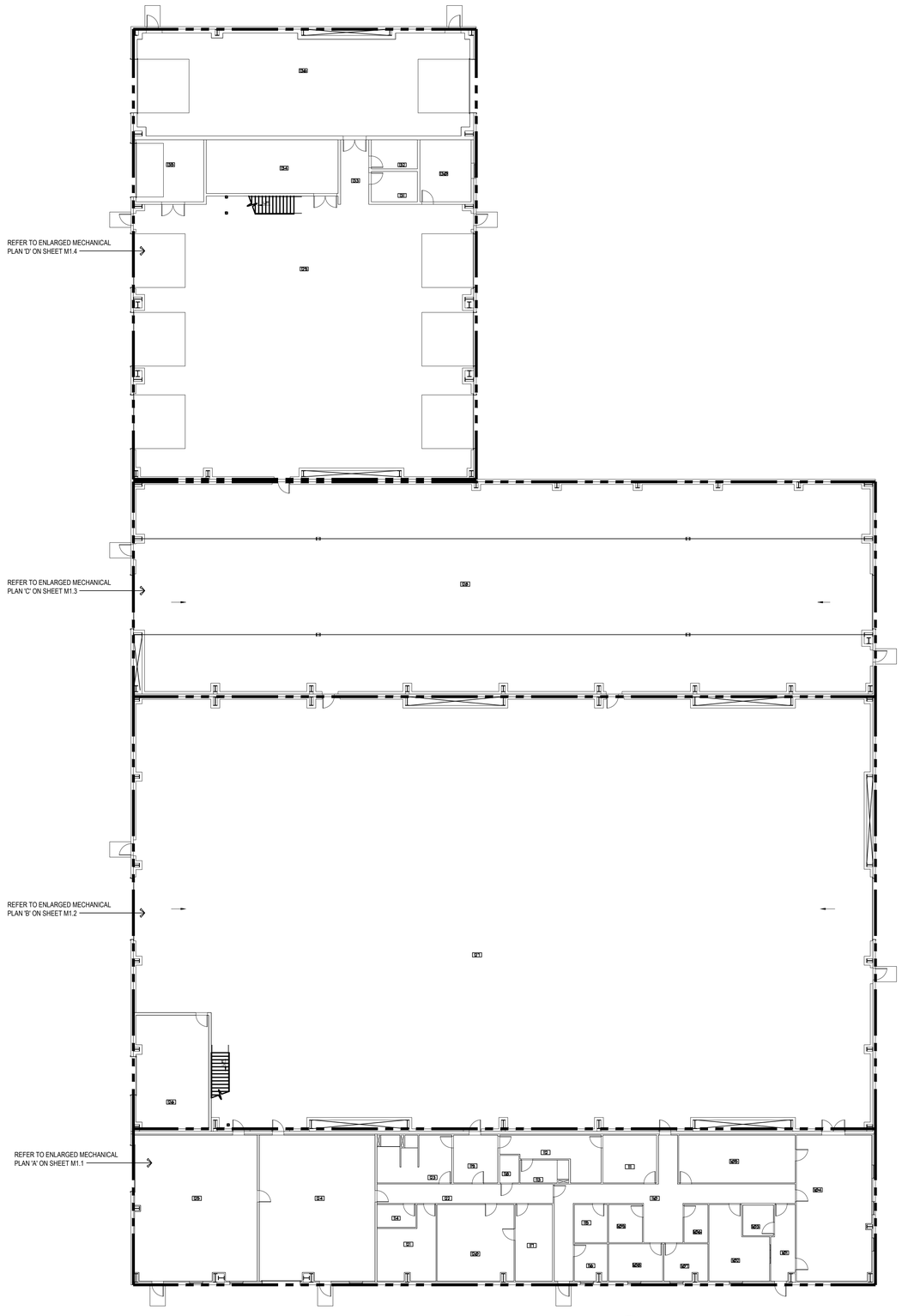
REVISIONS:

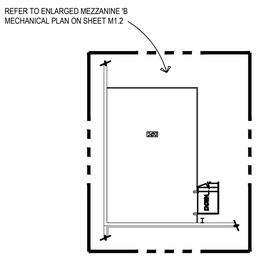
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
PLUMBING SPECIFICATIONS

vandalia ohio — small city, big opportunity.

PROJECT NO.: 23014
DRAWN BY: MT
DATE: 05-18-2026
CHECKED BY: NAM

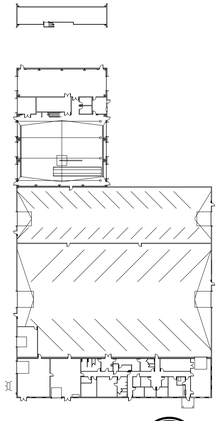






OVERALL MECHANICAL PLAN

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



KEY PLAN

N.T.S.

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REVISIONS:

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

OVERALL MECHANICAL PLAN

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M1.0

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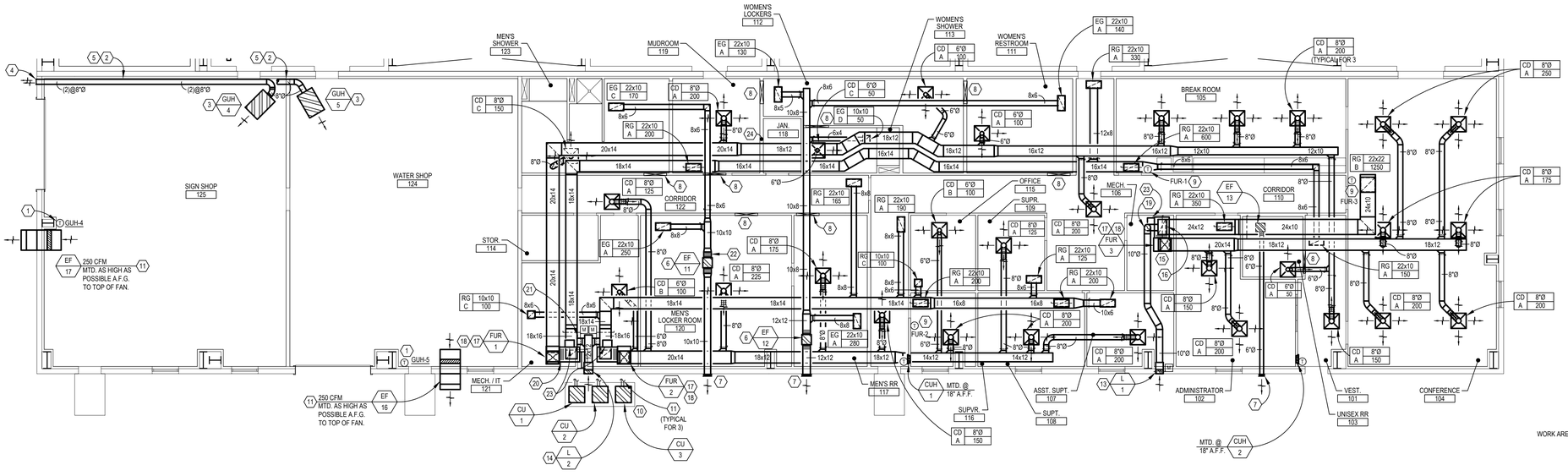
MECHANICAL CODED NOTES:

1. THERMOSTAT FOR NEW UNIT HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
2. MECHANICAL CONTRACTOR SHALL EXTEND HORIZONTAL INTAKE AND EXHAUST PIPING THROUGH WALL COMPLETE WITH CONCENTRIC TERMINATION KIT. INSTALL COMBUSTION AND VENT PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS AND PIPE SIZES. SEAL WALL PENETRATION WEATHER TIGHT.
3. NEW GAS FIRED UNIT HEATER TO BE SUSPENDED WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
4. CONCENTRIC FLUE KIT TO BE INSTALLED APPROXIMATELY 12' A.F.F. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
5. VENT AND COMBUSTION AIR PIPING TO BE INSTALLED AS HIGH UP AS POSSIBLE.
6. EXHAUST FAN MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
7. MECHANICAL CONTRACTOR SHALL EXTEND EXHAUST DUCT (SIZE AS NOTED) THROUGH WALL TO VENT CAP COMPLETE WITH BIRD SCREEN AND BACK DRAFT DAMPER. SEAL WALL PENETRATION WEATHER TIGHT. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
8. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR 1" UNDERCUT DOOR.
9. THERMOSTAT FOR NEW FURNACE TO BE MOUNTED AT 48" A.F.F.
10. COORDINATE WITH THE GENERAL CONTRACTOR TO MOUNT CONDENSING UNIT ON HOUSEKEEPING PAD. MOUNT UNIT LEVEL IN ALL DIRECTIONS.
11. RUN REFRIGERANT LIQUID AND SUCTION PIPING FROM CONDENSING UNIT (CU-1, CU-2 & CU-3) TO RESPECTIVE INDOOR FURNACE COOLING COILS (FUR-1, FUR-2 & FUR-3). REFRIGERANT PIPE(S) SIZES SHALL BE DETERMINED BY THE COMPRESSORIZED EQUIPMENT MANUFACTURER OR THEIR REPRESENTATIVE, WHO SHALL ALSO DETERMINE THE NEED FOR DOUBLE SUCTION PIPE RISERS, ACCUMULATORS AND OTHER APPURTENANCES REQUIRED FOR PROPER LONG TERM OPERATION OF THE EQUIPMENT. REFRIGERANT PIPE(S) SIZING AND ROUTING SHALL MEET ALL SYSTEM OPERATING CONDITIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER LETTERS AND DRAWINGS THAT ADEQUATELY DEPICT THE REFRIGERANT PIPING AND COMPONENTS, AND INDICATE THE RECOMMENDATIONS PROVIDED TO THEM BY THE MANUFACTURER OR THEIR REPRESENTATIVE. INSTALL THROUGH SIDEWALL IN 'PATE' PIPE CURB (SEAL PENETRATION WATER AND AIR TIGHT), RISE UP IN WALL AND RUN AS HIGH AS POSSIBLE IN CEILING SPACE TO FAN COIL UNITS. INSULATE VAPOR AND LIQUID LINE WITH NEW 1" THICK FLEXIBLE UNICELLULAR INSULATION (ARMAFLEX AP). PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH. TRAP AND SLOPE LINES PER MANUFACTURER'S RECOMMENDATIONS.
12. EXTEND TRAPPED CONDENSATE PIPING AND AND RUN GRAVITY SLOPED AT 1% MINIMUM OVER TO FLOOR DRAIN AND DISCHARGE INTO FLOOR DRAIN COMPLETE WITH AIR GAP. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT FLOOR DRAIN LOCATION PRIOR TO STARTING WORK.

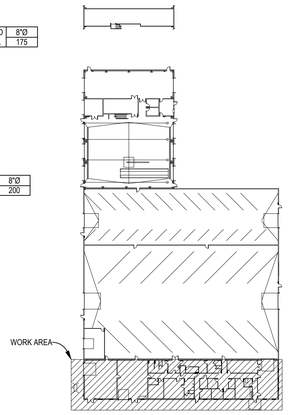
MECHANICAL CODED NOTES (CONTINUED):

13. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO FURNISH AND INSTALL 1'-0" x 1'-0" (12" x 12") STATIONARY COMBINATION MOTORIZED WALL FRESH AIR INTAKE LOUVER. INTERLOCK LOUVER WITH OPERATION OF FUR-3 (DAMPER SHALL OPEN WHEN FUR-3 FAN ENGAGES) SET DAMPER TO SUPPLY 400 CFM (25%) OUTSIDE AIR. PROVIDE 12x12x12 PLENUM BOX OFF BACK OF LOUVER. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.
14. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO FURNISH AND INSTALL 1'-2" x 1'-2" (14" x 14") STATIONARY WALL FRESH AIR INTAKE LOUVER. PROVIDE 14x14x12 PLENUM BOX OFF BACK OF LOUVER. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.
15. EXTEND FULL SIZE SUPPLY AIR DUCT FROM FURNACE COMPLETE WITH FLEXIBLE CONNECTION AT UNIT AND TRANSITION IN RISE TO A 20x14 SUPPLY AIR DUCT. (TYPICAL FOR FUR-3 AND FUR-3)
16. PROVIDE FULL SIZE RETURN AIR PLENUM FROM SIDE CONNECTION ON FURNACE COMPLETE WITH FILTER RACK AND FLEXIBLE CONNECTION AT UNIT. DROP 24x12 RETURN AIR DUCT DROP DOWN INTO TOP OF FULL SIZE RETURN AIR PLENUM COMPLETE WITH MANUAL VOLUME DAMPER FOR BALANCING.
17. ROUTE TRAPPED CONDENSATE PIPING FROM FURNACE AND RUN GRAVITY SLOPED AT 1% MINIMUM OVER TO FLOOR DRAIN IN ROOM DISCHARGE INTO FLOOR DRAIN COMPLETE WITH 2" AIR GAP. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT FLOOR DRAIN LOCATION PRIOR TO ROUGH-IN.
18. EXTEND FURNACE FLUE AND COMBUSTION AIR PIPING UP AND TERMINATE THROUGH ROOF COMPLETE WITH CONCENTRIC VENT TERMINATION KIT. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL ROOF OPENING WEATHER TIGHT.
19. EXTEND AND CONNECT 10"Ø OUTSIDE AIR DUCT INTO 24x12 RETURN AIR DUCT IN DROP UPSTREAM OF MANUAL VOLUME DAMPER.
20. PROVIDE FULL SIZE RETURN AIR PLENUM FROM SIDE CONNECTION ON FURNACE COMPLETE WITH FILTER RACK AND FLEXIBLE CONNECTION AT UNIT. DROP 18x16 RETURN AIR DUCT DROP DOWN INTO TOP OF FULL SIZE RETURN AIR PLENUM. (TYPICAL FOR FUR-2)
21. EXTEND AND CONNECT 10"Ø OUTSIDE AIR DUCT INTO SIDE OF 18x16 RETURN AIR DUCT COMPLETE WITH 120V MOTORIZED DAMPER, INTERLOCK DAMPER WITH OPERATION OF FUR-1 (DAMPER SHALL OPEN WHEN FUR-1 FAN ENGAGES SET DAMPER TO SUPPLY 400 CFM (25%) OUTSIDE AIR. (TYPICAL FOR FUR-2)
22. FLEXIBLE CONNECTION AT UNIT. (TYPICAL)
23. MOUNT 'APRILAIRE' MODEL #620 ON RETURN AIR PLENUM. COORDINATE WITH THE PLUMBING CONTRACTOR FOR 1/2" COLD WATER TAP. RUN 1/4" COLD WATER FROM TAP AND CONNECT TO HUMIDIFIER COMPLETE WITH SHUT-OFF VALVE. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
24. RESIDENTIAL CLOTHES DRYER TO BE FURNISHED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. 4"Ø RESIDENTIAL CLOTHES DRYER EXHAUST UP ALONG WALL FROM 90 DEGREE ELBOW AT 6" ABOVE FINISHED FLOOR. EXTEND 4"Ø CLOTHES DRYER EXHAUST UP THRU ROOF TO ROOF CAP COMPLETE WITH BACKDRAFT DAMPER FOR RESIDENTIAL CLOTHES DRYER EXHAUST.



ENLARGED MECHANICAL PLAN 'A'

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



KEY PLAN

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WDC GROUP

REVISIONS:

vandalia ohio small city. big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA VANDALIA, OHIO 45377

ENLARGED MECHANICAL PLAN 'A'

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M1.1

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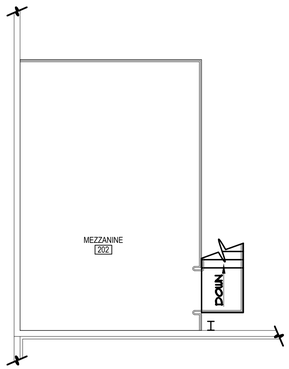


ENLARGED MEZZANINE 'B' MECHANICAL PLAN

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

MECHANICAL CODED NOTES:

1. BASIS OF DESIGN IS AN INFRARED TUBE HEATER THAT IS CAPABLE OF ATMOSPHERIC COMBUSTION AIR.
2. 4" DIAMETER SELKIRK METALBESTOS FLUE THRU EXTERIOR WALL. FLASH AND COUNTER FLASH WALL OPENING WEATHER TIGHT. TERMINATE WITH SELKIRK METALBESTOS TYPE B VENT CAP. REFER TO HORIZONTAL VENT DETAIL ON DWG M3.0 FOR ADDITIONAL INFORMATION.
3. 4" DIAMETER SELKIRK METALBESTOS FLUE UP THRU ROOF. FLASH AND COUNTER FLASH ROOF OPENING WEATHER TIGHT. TERMINATE WITH SELKIRK METALBESTOS TYPE B VENT CAP. REFER TO SINGLE VERTICAL VENTING CONFIGURATION DETAIL ON DWG. M3.0 FOR ADDITIONAL INFORMATION.
4. INFRARED LOW-INTENSITY, GAS-FIRED, VENTED TUBE HEATER (IRH) FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOUNT HEATER FROM ROOF STRUCTURE AT ELEVATION INDICATED ON THE DRAWINGS. ALL INSTALLATIONS TO BE MADE PER MANUFACTURERS RECOMMENDATIONS.
5. SIDE WALL MOUNTED EXHAUST FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.
6. SIDE WALL MOUNTED SUPPLY FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.

MECHANICAL CODED NOTES (CONTINUED):

7. THERMOSTAT FOR INFRARED HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
8. WALL MOUNTED VENTILATION CONTROL SWITCH FOR OPERATION OF EXHAUST FANS EF-1 & EF-2 AND SUPPLY FANS SF-1 & SF-2 TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. INTERFACE AND INTERLOCK SWITCH WITH GAS DETECTOR CONTROL PANEL. REFER TO "LARGE VEHICLE STORAGE (127) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
9. EXHAUST FAN MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
10. WALL MOUNTED GAS DETECTOR CONTROL PANEL TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PANEL TO BE 120V, 1 PHASE, 60HZ AND BE MOUNTED AT 4'-0" A.F.F.. REFER TO "LARGE VEHICLE STORAGE (127) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. SIDEWALL MOUNTED EXHAUST FAN WITH WALL HOUSING, GRAVITY BACKDRAFT DAMPER AND WEATHERHOOD. FAN TO BE OPERATED CONTINUOUSLY. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL WALL OPENING WEATHER TIGHT.
12. MECHANICAL CONTRACTOR SHALL EXTEND 10x8 EXHAUST DUCT THROUGH WALL TO VENT CAP COMPLETE WITH BIRD SCREEN AND BACK DRAFT DAMPER. SEAL WALL PENETRATION WEATHER TIGHT. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
13. CARBON MONOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-CM-TRA. MOUNT SENSOR AT 5'-6" A.F.F..

MECHANICAL CODED NOTES (CONTINUED):

14. NITROGEN DIOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-ND-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
15. VENT AND COMBUSTION AIR PIPING TO BE INSTALLED AS HIGH UP AS POSSIBLE.
16. CONCENTRIC FLUE KIT TO BE INSTALLED APPROXIMATELY 12' A.F.F. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
17. NEW GAS FIRED UNIT HEATER TO BE SUSPENDED WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
18. MECHANICAL CONTRACTOR SHALL EXTEND HORIZONTAL INTAKE AND EXHAUST PIPING THROUGH WALL COMPLETE WITH CONCENTRIC TERMINATION KIT. INSTALL COMBUSTION AND VENT PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS AND PIPE SIZES. SEAL WALL PENETRATION WEATHER TIGHT.
19. THERMOSTAT FOR UNIT HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
20. TRANSITION FULL SIZE (FIELD VERIFY EXACT SIZE) EXHAUST AIR DUCT TO A 44x44 EXHAUST AIR DUCT AND DROP DOWN ALONG WALL EXPOSED TIGHT TO WALL AND TERMINATE AT 12" A.F.F MAXIMUM.

MECHANICAL GENERAL NOTES:

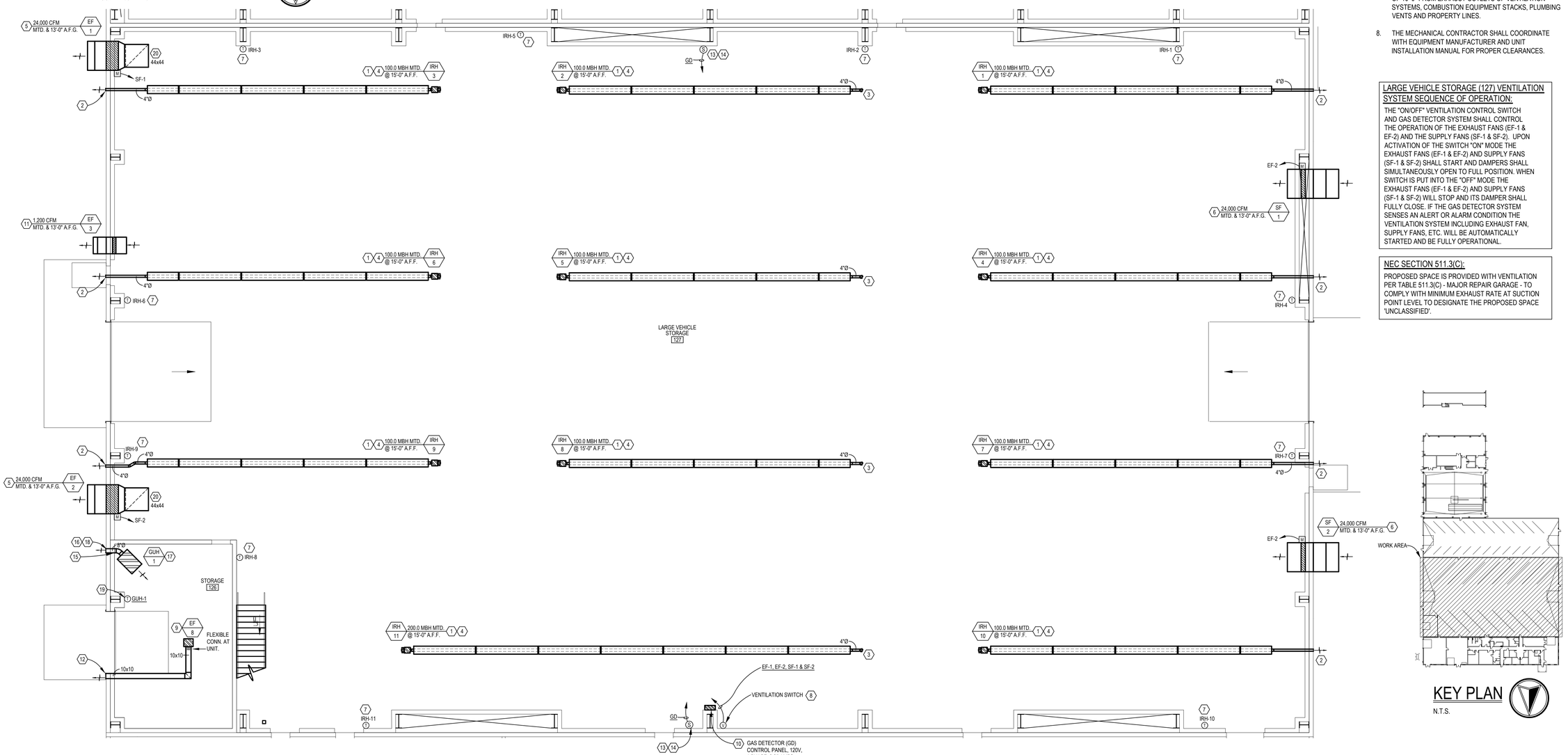
1. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER AND VOLTAGE REQUIREMENTS.
2. THE MECHANICAL CONTRACTOR SHALL ACCURATELY COORDINATE THE SIZES AND LOCATION OF ALL DUCTWORK, PIPING AND EQUIPMENT WITH THE LOCATION OF LIGHTING FIXTURES, STRUCTURAL MEMBERS AND WORK OF ALL OTHER TRADES TO PREVENT CONFLICT. DUCTWORK CONFLICTING WITH LIGHTING FIXTURE LOCATIONS SHALL BE MOVED AT THIS CONTRACTOR'S EXPENSE.
3. MOUNT THERMOSTATS AT 4'-0" ABOVE FINISHED FLOOR OR AS DIRECTED BY THE ARCHITECT.
4. ALL DUCTWORK DIMENSIONS NOTED ON PLAN REFERS TO THE CLEAR INSIDE OPENING REQUIRED.
5. ALL WALL, FLOOR AND ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE MECHANICAL SYSTEMS SHALL BE MADE BY THE MECHANICAL CONTRACTOR.
6. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
7. ALL OUTSIDE AIR INTAKES FOR THE MECHANICAL EQUIPMENT SHALL BE LOCATED A MINIMUM DISTANCE OF 10'-0" FROM EXHAUST OUTLETS OF VENTILATION SYSTEMS, COMBUSTION EQUIPMENT STACKS, PLUMBING VENTS AND PROPERTY LINES.
8. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER AND UNIT INSTALLATION MANUAL FOR PROPER CLEARANCES.

LARGE VEHICLE STORAGE (127) VENTILATION SYSTEM SEQUENCE OF OPERATION:

THE "ON/OFF" VENTILATION CONTROL SWITCH AND GAS DETECTOR SYSTEM SHALL CONTROL THE OPERATION OF THE EXHAUST FANS (EF-1 & EF-2) AND THE SUPPLY FANS (SF-1 & SF-2). UPON ACTIVATION OF THE SWITCH "ON" MODE THE EXHAUST FANS (EF-1 & EF-2) AND SUPPLY FANS (SF-1 & SF-2) SHALL START AND DAMPERS SHALL SIMULTANEOUSLY OPEN TO FULL POSITION. WHEN SWITCH IS PUT INTO THE "OFF" MODE THE EXHAUST FANS (EF-1 & EF-2) AND SUPPLY FANS (SF-1 & SF-2) WILL STOP AND ITS DAMPER SHALL FULLY CLOSE. IF THE GAS DETECTOR SYSTEM SENSES AN ALERT OR ALARM CONDITION THE VENTILATION SYSTEM INCLUDING EXHAUST FAN, SUPPLY FANS, ETC. WILL BE AUTOMATICALLY STARTED AND BE FULLY OPERATIONAL.

NEC SECTION 511.3(C):

PROPOSED SPACE IS PROVIDED WITH VENTILATION PER TABLE 511.3(C) - MAJOR REPAIR GARAGE - TO COMPLY WITH MINIMUM EXHAUST RATE AT SUCTION POINT LEVEL TO DESIGNATE THE PROPOSED SPACE 'UNCLASSIFIED'.



ENLARGED MECHANICAL PLAN 'B'

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

KEY PLAN

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WDC GROUP

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A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

ENLARGED MECHANICAL PLAN 'B'

PROJECT NO.:	23014
DRAWN BY:	JD
DATE:	05-18-2026
CHECKED BY:	NAM

M1.2

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EQUIPMENT STORAGE (128) VENTILATION SYSTEM SEQUENCE OF OPERATION:

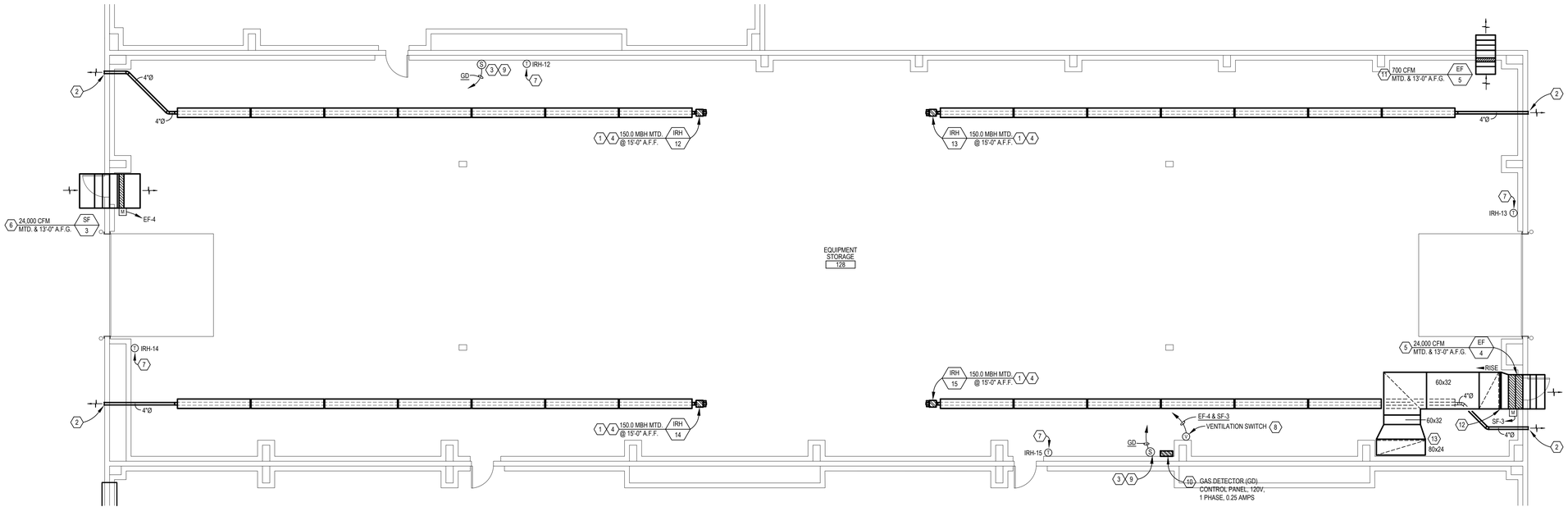
THE "ON/OFF" VENTILATION CONTROL SWITCH AND GAS DETECTOR SYSTEM SHALL CONTROL THE OPERATION OF THE EXHAUST FAN (EF-4) AND THE SUPPLY FAN (SF-3). UPON ACTIVATION OF THE SWITCH "ON" MODE THE EXHAUST FAN (EF-4) AND SUPPLY FAN (SF-3) SHALL START AND DAMPERS SHALL SIMULTANEOUSLY OPEN TO FULL POSITION. WHEN SWITCH IS PUT INTO THE "OFF" MODE THE EXHAUST FAN (EF-4) AND SUPPLY FAN (SF-3) WILL STOP AND ITS DAMPER SHALL FULLY CLOSE. IF THE GAS DETECTOR SYSTEM SENSES AN ALERT OR ALARM CONDITION THE VENTILATION SYSTEM INCLUDING EXHAUST FAN, SUPPLY FANS, ETC. WILL BE AUTOMATICALLY STARTED AND BE FULLY OPERATIONAL.

NEC SECTION 511.3(C):

PROPOSED SPACE IS PROVIDED WITH VENTILATION PER TABLE 511.3(C) - MAJOR REPAIR GARAGE - TO COMPLY WITH MINIMUM EXHAUST RATE AT SUCTION POINT LEVEL TO DESIGNATE THE PROPOSED SPACE 'UNCLASSIFIED'.

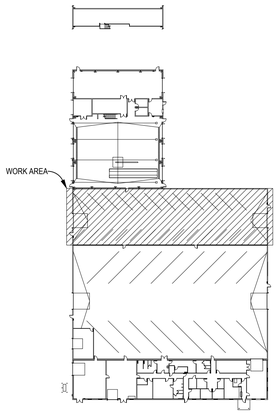
MECHANICAL CODED NOTES:

1. BASIS OF DESIGN IS AN INFRARED TUBE HEATER THAT IS CAPABLE OF ATMOSPHERIC COMBUSTION AIR.
2. 4" DIAMETER SELKIRK METALBESTOS FLUE THRU EXTERIOR WALL. FLASH AND COUNTER FLASH WALL OPENING WEATHER TIGHT. TERMINATE WITH SELKIRK METALBESTOS TYPE B VENT CAP. REFER TO HORIZONTAL VENT DETAIL ON DWG M3.0 FOR ADDITIONAL INFORMATION.
3. NITROGEN DIOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-ND-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
4. INFRARED LOW-INTENSITY, GAS-FIRED, VENTED TUBE HEATER (IRH) FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOUNT HEATER FROM ROOF STRUCTURE AT ELEVATION INDICATED ON THE DRAWINGS. ALL INSTALLATIONS TO BE MADE PER MANUFACTURERS RECOMMENDATIONS.
5. SIDE WALL MOUNTED EXHAUST FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WETHER TIGHT.
6. SIDE WALL MOUNTED SUPPLY FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WETHER TIGHT.
7. THERMOSTAT FOR INFRARED HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
8. WALL MOUNTED VENTILATION CONTROL SWITCH FOR OPERATION OF EXHAUST FAN EF-4 AND SUPPLY FAN SF-3 TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. INTERFACE AND INTERLOCK SWITCH WITH GAS DETECTOR CONTROL PANEL. REFER TO "EQUIPMENT STORAGE (128) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
9. CARBON MONOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-CM-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
10. WALL MOUNTED GAS DETECTOR CONTROL PANEL TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PANEL TO BE 120V, 1 PHASE, 60HZ AND BE MOUNTED AT 4'-0" A.F.F.. REFER TO "EQUIPMENT STORAGE (128) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. SIDEWALL MOUNTED EXHAUST FAN WITH WALL HOUSING, GRAVITY BACKDRAFT DAMPER AND WEATHERHOOD. FAN TO BE OPERATED CONTINUOUSLY. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
12. TRANSITION FULL SIZE (FIELD VERIFY EXACT SIZE) EXHAUST AIR DUCT TO A 60x32 EXHAUST AIR DUCT AND RISE UP AS REQUIRED TO RUN OVERTOP IRH-15.
13. TRANSITION 60x32 EXHAUST AIR DUCT TO AN 80x24 EXHAUST AIR DUCT AND DROP DOWN ALONG WALL EXPOSED TIGHT TO WALL AND TERMINATE AT 12" A.F.F MAXIMUM.



ENLARGED MECHANICAL PLAN 'C'

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



KEY PLAN

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REVISIONS:

ohio vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

ENLARGED MECHANICAL PLAN 'C'

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M1.3

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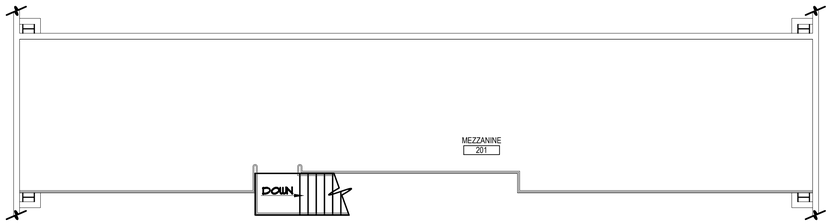
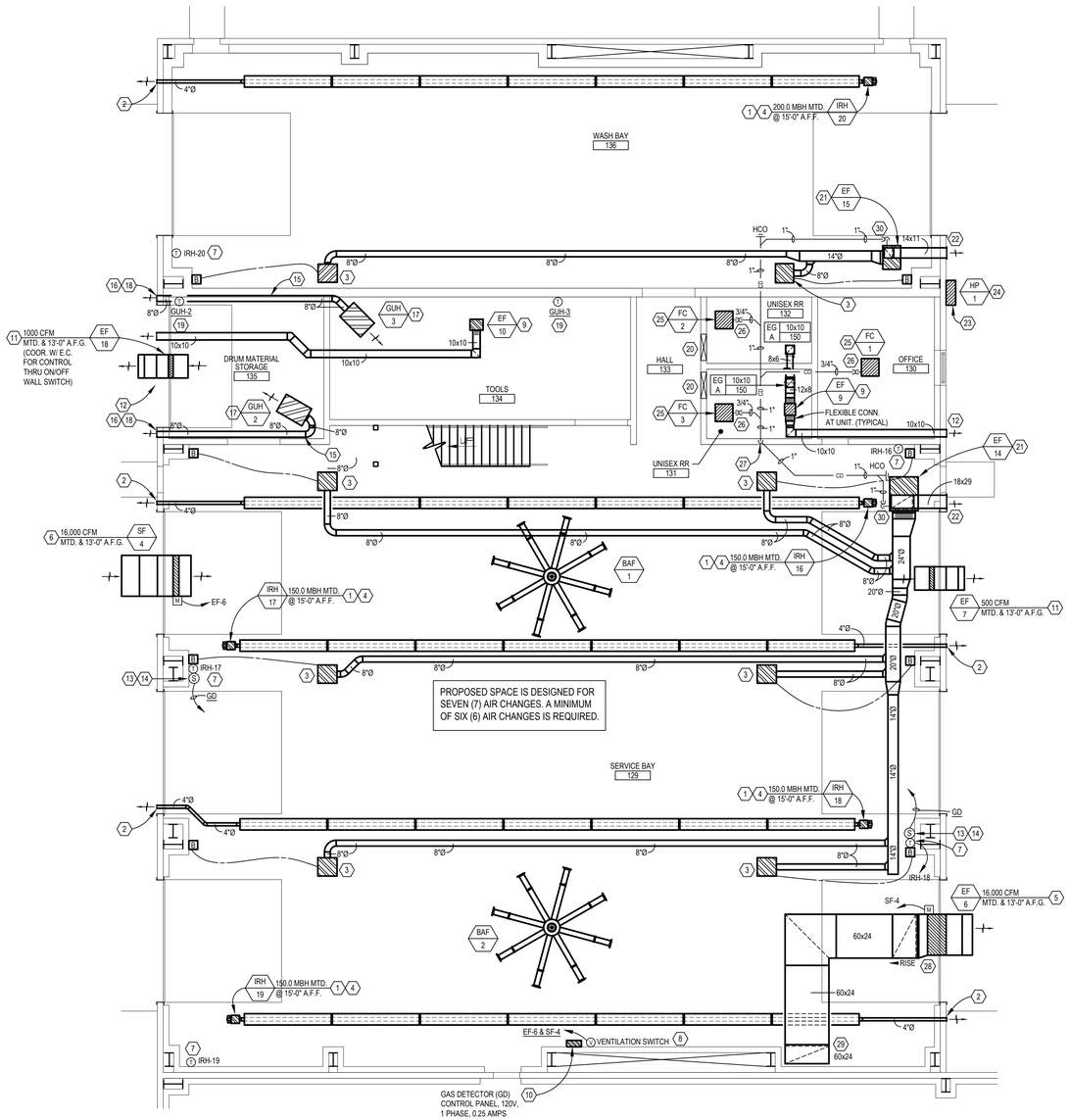


ENLARGED MEZZANINE 'A' MECHANICAL PLAN

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



ENLARGED MECHANICAL PLAN 'D'

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

MECHANICAL CODED NOTES:

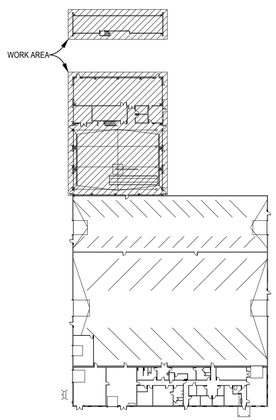
1. BASIS OF DESIGN IS AN INFRARED TUBE HEATER THAT IS CAPABLE OF ATMOSPHERIC COMBUSTION AIR.
2. 4" DIAMETER SELKIRK METALBESTOS FLUE THRU EXTERIOR WALL. FLASH AND COUNTER FLASH WALL OPENING WEATHER TIGHT. TERMINATE WITH SELKIRK METALBESTOS TYPE B VENT CAP. REFER TO HORIZONTAL VENT DETAIL ON DWG M3.0 FOR ADDITIONAL INFORMATION.
3. MONOXIVENT SERIES 9000L SPRING HOSE REEL WITH 44' x 8" SERIES 4000 HOSE, Y KIT ASSEMBLY. #TCA-8 STAINLESS STEEL ADAPTER TAPERED CONE FOR 8", #VG VICE GRIP ADD ON FOR TCA ADAPTER, #LS LIFTING SLEEVE ADD ON FOR TCA ADAPTER, #LP-10-ADJ 10' ADJUSTABLE LIFTING POLE, #23909 WORM GEAR CLAMP FOR 8". COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ON / OFF BUTTON OR SWITCH AT EACH HOSE DROP LOCATION TO ACTIVATE EXHAUST FAN.
4. INFRARED LOW-INTENSITY, GAS-FIRED, VENTED TUBE HEATER (IRH) FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOUNT HEATER FROM ROOF STRUCTURE AT ELEVATION INDICATED ON THE DRAWINGS. ALL INSTALLATIONS TO BE MADE PER MANUFACTURERS RECOMMENDATIONS.
5. SIDE WALL MOUNTED EXHAUST FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
6. SIDE WALL MOUNTED SUPPLY FAN WITH WALL HOUSING, MOTORIZED CONTROL DAMPER AND WEATHERHOOD. INTERLOCK FAN WITH MOTORIZED DAMPER AND VENTILATION CONTROL SWITCH. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL ALL CONTROL WIRING, TRANSFORMERS, RELAYS, CONTACTS AND ACCESSORIES AS REQUIRED TO INTERFACE DAMPER, FAN MOTOR WITH SENSOR. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
7. THERMOSTAT FOR INFRARED HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
8. WALL MOUNTED VENTILATION CONTROL SWITCH FOR OPERATION OF EXHAUST FAN EF-6 AND SUPPLY FAN SF-4 TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. INTERFACE AND INTERLOCK SWITCH WITH GAS DETECTOR CONTROL PANEL. REFER TO "SERVICE BAY (129) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
9. EXHAUST FAN MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
10. WALL MOUNTED GAS DETECTOR CONTROL PANEL TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PANEL TO BE 120V, 1 PHASE, 60HZ AND BE MOUNTED AT 4'-0" A.F.F.. REFER TO "SERVICE BAY (129) VENTILATION SYSTEM SEQUENCE OF OPERATION" ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. SIDEWALL MOUNTED EXHAUST FAN WITH WALL HOUSING, GRAVITY BACKDRAFT DAMPER AND WEATHERHOOD. FAN TO BE OPERATED CONTINUOUSLY. COORDINATE WITH THE GENERAL CONTRACTOR TO SEAL OPENING WEATHER TIGHT.
12. MECHANICAL CONTRACTOR SHALL EXTEND 10x10 EXHAUST DUCT THROUGH WALL TO VENT CAP COMPLETE WITH BIRD SCREEN AND BACK DRAFT DAMPER. SEAL WALL PENETRATION WEATHER TIGHT. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
13. CARBON MONOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-CM-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
14. NITROGEN DIOXIDE GAS SENSOR/TRANSMITTER 25-28 VDC, BRASH MODEL #GSE-ND-TRA. MOUNT SENSOR AT 5'-6" A.F.F..
15. VENT AND COMBUSTION AIR PIPING TO BE INSTALLED AS HIGH UP AS POSSIBLE.
16. CONCENTRIC FLUE KIT TO BE INSTALLED APPROXIMATELY 12' A.F.F. VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
17. NEW GAS FIRED UNIT HEATER TO BE SUSPENDED WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
18. MECHANICAL CONTRACTOR SHALL EXTEND HORIZONTAL INTAKE AND EXHAUST PIPING THROUGH WALL COMPLETE WITH CONCENTRIC TERMINATION KIT. INSTALL COMBUSTION AND VENT PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS AND PIPE SIZES. SEAL WALL PENETRATION WEATHER TIGHT
19. THERMOSTAT FOR UNIT HEATER TO BE MOUNTED AT 48" A.F.F. IF THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE THERMALLY INSULATED BACK PLATE.
20. COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE 1" UNDERCUT DOOR FOR MAKE-UP AIR.
21. EXHAUST FAN TO BE SUSPENDED WITH ALL THREADED RODS AND VIBRATION ISOLATORS FROM STRUCTURE FRAMING AS HIGH AS POSSIBLE. COORDINATE EXACT HEIGHT IN FIELD.
22. WALL EXHAUST CAP, COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS. ENSURE A MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES. SEAL OPENING WEATHER TIGHT.
23. COORDINATE WITH THE GENERAL CONTRACTOR TO MOUNT HEAT PUMP UNIT ON EXTERIOR WALL ON WALL MOUNTING BRACKET.
24. RUN REFRIGERANT LIQUID AND SUCTION PIPING FROM HEAT PUMP UNIT (HP-1) TO RESPECTIVE FAN COIL UNITS (FC-1, FC-2 & FC-3). REFRIGERANT PIPE(S) SIZES SHALL BE DETERMINED BY THE COMPRESSORIZED EQUIPMENT MANUFACTURER OR THEIR REPRESENTATIVE, WHO SHALL ALSO DETERMINE THE NEED FOR DOUBLE SUCTION PIPE RISERS, ACCUMULATORS AND OTHER APPURTENANCES REQUIRED FOR PROPER LONG TERM OPERATION OF THE EQUIPMENT. REFRIGERANT PIPE(S) SIZING AND ROUTING SHALL MEET ALL SYSTEM OPERATING CONDITIONS. THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER LETTERS AND DRAWINGS THAT ADEQUATELY DEPICT THE REFRIGERANT PIPING AND COMPONENTS, AND INDICATE THE RECOMMENDATIONS PROVIDED TO THEM BY THE MANUFACTURER OR THEIR REPRESENTATIVE. INSTALL THROUGH SIDEWALL IN 'PATE' PIPE CURB (SEAL PENETRATION WATER AND AIR TIGHT), RISE UP IN WALL AND RUN AS HIGH AS POSSIBLE IN CEILING SPACE TO FAN COIL UNITS. INSULATE VAPOR AND LIQUID LINE WITH NEW 1" THICK FLEXIBLE UNICELLULAR INSULATION (ARMAFLEX AP), PAINT INSULATION LOCATED OUTDOORS WITH ARMAFLEX WB FINISH. TRAP AND SLOPE LINES PER MANUFACTURER'S RECOMMENDATIONS.
25. FAN COIL UNIT MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND VIBRATION ISOLATORS.
26. EXTEND 3/4" TRAPPED PUMPED CONDENSATE PIPING FROM INTEGRAL CONDENSATE PUMP AND RUN AS HIGH AS POSSIBLE IN CEILING SPACE GRAVITY SLOPED AT 1% MINIMUM AS SHOWN.
27. DROP 1-1/4" CONDENSATE / DRAIN PIPING DOWN IN WALL AND DISCHARGE INTO MOP SINK COMPLETE WITH 2-1/2" AIR GAP.
28. TRANSITION FULL SIZE (FIELD VERIFY EXACT SIZE) EXHAUST AIR DUCT TO A 60x24 EXHAUST AIR DUCT AND RISE UP AS REQUIRED TO RUN OVERTOP IRH-19.
29. 60x24 EXHAUST AIR DUCT DROP DOWN ALONG WALL EXPOSED TIGHT TO WALL AND TERMINATE AT 12" A.F.F MAXIMUM.
30. EXTEND 1" TRAPPED DRAIN PIPING FROM CONNECTION AT FAN AND RUN AS HIGH AS POSSIBLE GRAVITY SLOPED AT 1% MINIMUM.

SERVICE BAY (129) VENTILATION SYSTEM SEQUENCE OF OPERATION:

THE "ON/OFF" VENTILATION CONTROL SWITCH AND GAS DETECTOR SYSTEM SHALL CONTROL THE OPERATION OF THE EXHAUST FAN (EF-6) AND THE SUPPLY FAN (SF-4). UPON ACTIVATION OF THE SWITCH "ON" MODE THE EXHAUST FAN (EF-6) AND SUPPLY FAN (SF-4) SHALL START AND DAMPERS SHALL SIMULTANEOUSLY OPEN TO FULL POSITION. WHEN SWITCH IS PUT INTO THE "OFF" MODE THE EXHAUST FAN (EF-6) AND SUPPLY FAN (SF-4) WILL STOP AND ITS DAMPER SHALL FULLY CLOSE. IF THE GAS DETECTOR SYSTEM SENSES AN ALERT OR ALARM CONDITION THE VENTILATION SYSTEM INCLUDING EXHAUST FAN, SUPPLY FANS, ETC. WILL BE AUTOMATICALLY STARTED AND BE FULLY OPERATIONAL.

NEC SECTION 511.3(C):

PROPOSED SPACE IS PROVIDED WITH VENTILATION PER TABLE 511.3(C) - MAJOR REPAIR GARAGE - TO COMPLY WITH MINIMUM EXHAUST RATE AT SUCTION POINT LEVEL TO DESIGNATE THE PROPOSED SPACE 'UNCLASSIFIED'.



KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 15B UNLESS OTHERWISE NOTED.

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WDC GROUP

REVISIONS:

vandalia ohio
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A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

ENLARGED MECHANICAL PLAN 'D'

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M1.4

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DUCTWORK SCHEDULE

DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	DUCT MATERIAL	INSULATION
SUPPLY AIR DUCTWORK (CONCEALED)	+2"	B	G-60 GALVANIZED STEEL	2" DUCT WRAP WITH ASJ
SUPPLY AIR DUCTWORK (EXPOSED)	+2"	B	G-60 GALVANIZED STEEL	2" DUCT LINING
RETURN AIR DUCTWORK	-1"	B	G-60 GALVANIZED STEEL	1" LINER
EXHAUST AIR DUCTWORK	-1"	B	G-60 GALVANIZED STEEL	NONE
OUTSIDE AIR DUCTWORK	+2"	B	G-60 GALVANIZED STEEL	2" DUCT WRAP WITH ASJ

NOTE: ALL DUCTWORK SIZES ARE AIRWAY DIMENSIONS

INFRARED HEATER SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	LENGTH	INPUT (MBH)	WEIGHT (LBS)	
IRH 1 - 10	SOLARONICS STG 100-40BN STRAIGHT	47'-1/4"	100.0	230	NOTES 1-6
IRH 11	SOLARONICS STG-200-70CN STRAIGHT	72'-1/4"	200.0	540	NOTES 1-6
IRH 12-19	SOLARONICS STG 150-70CN STRAIGHT	72'-1/4"	150.0	380	NOTES 1-6
IRH 20	SOLARONICS SSTG-200-70CN STRAIGHT	72'-1/4"	200.0	540	NOTES 1-7

NOTE:
1. 1/2" FPT GAS INLET CONN.
2. 10 YEAR WARRANTY ON BURNER CORE AND ALL HEAT EXCHANGER AND COMBUSTION TUBES
3. 2 YEAR WARRANTY ON ALL BURNER CONTROLS
4. 120/60/1 POWER SUPPLY, 1.3 AMPS
5. 24 GAUGE ALUMINUM REFLECTOR, ROTATABLE 0° TO 30°
6. 24 V REMOTE TSTAT
7. STAINLESS STEEL CONSTRUCTION FOR WET AREAS.

SIMILAR MANUFACTURER: BY CAMBRIDGE, ENERCO, SCHWANK, RE-VERBER-RAY

SPLIT SYSTEM FURNACE SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	CFM	CFM OUTSIDE AIR	ESP (IN.)	HEATING CAPACITY INPUT (MBH)	HEATING CAPACITY OUTPUT (MBH)	HEATING CAPACITY EFF. %	MOTOR HP & VOLTAGE	DX COOLING COIL DATA MODEL No.	DX COOLING COIL DATA TOTAL (MBH)	DX COOLING COIL DATA SENSIBLE (MBH)	DX COOLING COIL DATA E.A.T. (DB/WB)	AIR COOLED CONDENSING UNIT TAG	AIR COOLED CONDENSING UNIT MODEL No.	NOM. TONNAGE	AMBIENT AIR TEMP.	SEER2	VOLTAGE	MCA	MOCP	REMARKS
FUR 1	TRANE S9X2C100	OFFICE BUILDING	1600	288	0.7	65.0 / 100.0	63.05 / 97.0	95	1.0 HP 115/60/1	TRANE 5TXCC00TAS3	45	34.8	80/67	CU 1	TRANE 5TTR7048A1	4.0	95	17.0	208/60/1	36.0	50	SEE NOTES BELOW
FUR 2	TRANE S9X2C100	OFFICE BUILDING	1600	288	0.7	65.0 / 100.0	63.05 / 97.0	95	1.0 HP 115/60/1	TRANE 5TXCC00TAS3	45	34.8	80/67	CU 2	TRANE 5TTR7048A1	4.0	95	17.0	208/60/1	36.0	50	SEE NOTES BELOW
FUR 3	TRANE S9X2C100	OFFICE BUILDING	1600	288	0.7	65.0 / 100.0	63.05 / 97.0	95	1.0 HP 115/60/1	TRANE 5TXCC00TAS3	45	34.8	80/67	CU 3	TRANE 5TTR7048A1	4.0	95	17.0	208/60/1	36.0	50	SEE NOTES BELOW

FURNISH WITH THE FOLLOWING:
1. 7 DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT
2. FLUE AND COMBUSTION AIR CONCENTRIC ROOF VENT KIT SIZED PER MANUFACTURER'S INSTRUCTIONS.
3. TWO SETS OF 2" PLEATED THROWAWAY FILTERS
4. REFRIGERANT ACC. AND LINE SIZE KIT SUCTION LINE TO BE INSULATED
5. MANUFACTURER ACCESSORY CONDENSATE TRAP INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
6. UNIT NOT TO BE USED FOR TEMPORARY HEATING OR COOLING DURING CONSTRUCTION
7. 2-STAGE HEATING
8. APRILAIRE MODEL 620 HUMIDIFER, 18 GPD CAPACITY, 24 VAC - 60 HZ - 0.5 A. PROVIDE COMPLETE WITH IN-LINE SCALE REDUCER.

SIMILAR MANUFACTURERS BY CARRIER OR BRYANT

CONDENSING UNIT:
1. BALL BEARING FAN MOTOR
2. CRANKCASE HEATER
3. LOW AMBIENT CONTROL TO 0°F
4. SHORT CIRCUIT PROTECTION (DELAY)
5. EVAPORATOR FREEZE THERMOSTAT
6. FILTER DRYER
7. LOW PRESSURE SWITCH
8. OUTDOOR AIR TEMPERATURE SENSOR
9. WINTER START CONTROL
10. R-454B REFRIGERANT
11. 2- STAGE COMPRESSOR

FAN SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	MOTOR HP & VOLTAGE	FAN RPM	FAN TYPE	MAX. SOUND LEVEL	CONTROL INTERLOCK	REMARKS
EF 1 & 2	GREENHECK SBE-2L42-30	LARGE VEHICLE STORAGE 127	EXHAUST	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 10 & 11 BELOW.
EF 3	GREENHECK SBE-1H20-4	LARGE VEHICLE STORAGE 127	EXHAUST	1,200	0.25	0.25 HP 208/60/1	820	SIDEWALL PROPELLER	11.8	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 4	GREENHECK SBE-2L42-30	EQUIPMENT STORAGE 128	EXHAUST	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 10 & 11 BELOW.
EF 5	GREENHECK SBE-1H20-4	EQUIPMENT STORAGE 128	EXHAUST	700	0.25	0.25 HP 208/60/1	732	SIDEWALL PROPELLER	9.8	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 6	GREENHECK SBE-2L42-15	SERVICE BAY 129	EXHAUST	16,000	0.25	1.5 HP 208/60/1	471	SIDEWALL PROPELLER	20.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 10 & 11 BELOW.
EF 7	GREENHECK SBE-1H20-4	SERVICE BAY 129	EXHAUST	500	0.25	0.25 HP 208/60/1	690	SIDEWALL PROPELLER	9.8	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 8	GREENHECK SP-A780	STORAGE 126	EXHAUST	600	0.5	348 WATTS 115/60/1	1503	CEILING MTD.	6.5	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 9	GREENHECK SQ-90-VG	UNISEX RR'S 131 & 132	EXHAUST	300	0.5	348 WATTS 115/60/1	1960	INLINE	18.7	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 10	GREENHECK SP-AS10-VG	TOOLS 134	EXHAUST	500	0.5	143 WATTS 115/60/1	1349	CEILING MTD.	7.0	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 11	GREENHECK SQ-90-VG	MEN'S LOCKER ROOM 120 / MEN'S SHOWER 123	EXHAUST	420	0.5	1/10 HP 115/60/1	1667	INLINE	8.3	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 12	GREENHECK SQ-95-VG	WOMEN'S RESTROOM 111 / WOMEN'S LOCKER ROOM 112 / WOMEN'S SHOWER 113 / MEN'S RR 117	EXHAUST	600	0.5	1/6 HP 115/60/1	1699	INLINE	9.4	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 13	GREENHECK SP-B110	UNISEX RR 103	EXHAUST	70	0.5	80 WATTS 115/60/1	783	CEILING MTD.	2.0	TIME CLOCK	SEE NOTES 1, 2, 3, 4 & 5 BELOW.
EF 14	GREENHECK USF-27	TAILPIPE EXHAUST	EXHAUST	7200	7.0	15.0 HP 208/60/3	1725	UTILITY SET	50.0	SWITCHED	SEE NOTES 1, 3 & 13 - 16 BELOW.
EF 15	GREENHECK USF-13	TAILPIPE EXHAUST	EXHAUST	2400	6.0	5.0 HP 208/60/3	3097	UTILITY SET	35.0	SWITCHED	SEE NOTES 1, 3 & 13 - 16 BELOW.
EF 16	GREENHECK SBE-1H20-4	WATER SHOP 124	EXHAUST	250	0.25	0.25 HP 208/60/1	640	SIDEWALL PROPELLER	8.0	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 17	GREENHECK SBE-1H20-4	SIGN SHOP 125	EXHAUST	250	0.25	0.25 HP 208/60/1	640	SIDEWALL PROPELLER	8.0	DISC. SW OR CIRCUIT BREAKER	SEE NOTES 6, 7, 8, 9, 10 & 12 BELOW.
EF 18	GREENHECK SBE-1H20-4	DRUM MATERIAL STORAGE 135	EXHAUST	1000	0.25	0.25 HP 208/60/1	799	SIDEWALL PROPELLER	11.3	SWITCH	SEE NOTES 6, 7, 8, 9 & 10 BELOW.
SF 1 & 2	GREENHECK SBS-2L42-30	LARGE VEHICLE STORAGE 127	SUPPLY	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 9, 10 & 11 BELOW.
SF 3	GREENHECK SBS-2L42-30	EQUIPMENT STORAGE 128	SUPPLY	24,000	0.25	3.0 HP 208/60/1	609	SIDEWALL PROPELLER	30.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 9, 10 & 11 BELOW.
SF 4	GREENHECK SBS-2L42-15	SERVICE BAY 129	SUPPLY	16,000	0.25	1.5 HP 208/60/1	471	SIDEWALL PROPELLER	20.0	VENTILATION SWITCH	SEE NOTES 6, 7, 8, 9, 10 & 11 BELOW.

FURNISH WITH THE FOLLOWING:
1. AUTOMATIC BACKDRAFT DAMPER
2. INTEGRAL SOLID STATE SPEED CONTROL (FOR BALANCING ONLY)
3. MOTOR W/ THERMAL OVERLOAD PROTECTION
4. CONTROLLED BY TIME CLOCK FOR OCCUPIED HOURS
5. NEOPRENE VIBRATION ISOLATION KIT
6. MOTORIZED DAMPER (120 VOLT, 1PH)
7. NEMA 1 DISCONNECT SWITCH
8. BELT DRIVE
9. LONG WALL HOUSING
10. WEATHERHOOD W/ 45° TURN DOWN
11. CONTROLLED BY GAS DETECTION VENTILATION CONTROLLER WITH MANUAL OVERRIDE SWITCH BY EC.
12. FAN TO RUN CONTINUOUSLY
13. SPRING VIBRATION ISOLATORS
14. CONTROL FROM SWITCHES BY E.C.
15. VFD PACKAGE
16. NEMA-3R TOGGLE SWITCH

VENTILATION AIR REQUIREMENT

HVAC UNIT	ZONE DESCRIPTION	ZONE FLOOR AREA (SQ. FT.) Az	AREA OUTDOOR AIR RATE (CFM/SQ.FT) Ra	PEOPLE OUTDOOR AIR RATE (CFM/PERSON) Rp	ZONE POPULATION (# OF PEOPLE) Pz	BREATHING ZONE OUTDOOR AIR FLOW (CFM) Voz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	SYSTEM VENTILATION EFFICIENCY Ev	MINIMUM OUTDOOR AIR INTAKE FLOW (CFM) Vot	DESIGN OUTDOOR AIR INTAKE FLOW (CFM)	REMARKS
	OFFICE 130	231	4% FLOOR AREA	0	0	9 SF	0	0	0	9 SF	21 SF	COMPLIES WITH NATURAL VENTILATION V/A (1) 7'x3' MAN DOOR.
	SERVICE BAY 129 / HALL 133 / MEZZANINE 201	7696	0.75 CFM PER SF INT. / 0.05 CFM PER SF CONT.	0	0	5772 / 385	0	0	0	5772 / 385	16000 / 500	COMPLIES WITH SECTION 404 OF THE OMC FOR ENCLOSED PARKING GARAGE.
	WASH BAY 136	2565	4% FLOOR AREA	0	0	103 SF	0	0	0	103 SF	434 SF	COMPLIES WITH NATURAL VENTILATION V/A (2) 7'x3' MAN DOORS AND (2) 14'x14' OVERHEAD DOORS.
	DRUM MATERIAL STORAGE 135	303	4% FLOOR AREA	0	0	12 SF	0	0	0	12 SF	98 SF	COMPLIES WITH NATURAL VENTILATION V/A (1) 14'x7' OVERHEAD DOOR.
	TOOLS 134	492	0.12	0	0	59.04	0.8	73.8	0	73.8	500 CFM	VENTILATION SUPPLIED THOROUGH TRANSFER OPENING & EF-10 FROM SERV/ICE BAY. V/A NATURAL VENTILATION.
	EQUIPMENT STORAGE 128	10660	0.75 CFM PER SF INT. / 0.05 CFM PER SF CONT.	0	0	7995 / 533	0	0	0	7995 / 533	24000 / 700	COMPLIES WITH SECTION 404 OF THE OMC FOR ENCLOSED PARKING GARAGE.
	LARGE VEHICLE STORAGE 127	21707	0.75 CFM PER SF INT. / 0.05 CFM PER SF CONT.	0	0	16280 / 1085	0	0	0	16280 / 1085	48000 / 1200	COMPLIES WITH SECTION 404 OF THE OMC FOR ENCLOSED PARKING GARAGE.
	STORAGE 126	600	4% FLOOR AREA	0	0	24 SF	0	0	0	24 SF	100 SF	COMPLIES WITH NATURAL VENTILATION V/A (1) 10'x10' OVERHEAD DOOR.
	SIGN SHOP 125	1219	4 % FLOOR AREA	0	0	49 SF	0	0	0	49 SF	198 SF	COMPLIES WITH NATURAL VENTILATION V/A (1) 7'x6' DOUBLE ENTRY DOOR AND (1) 12'x 13' OVERHEAD DOOR.
	WATER SHOP 124	1136	4% FLOOR AREA	0	0	45 SF	0	0	0	45 SF	132 SF	COMPLIES WITH NATURAL VENTILATION V/A (1) 7'x6' DOUBLE ENTRY DOOR AND (1) 10'x9' OVERHEAD DOOR.
EF-9	UNISEX RR 131	95	70 CFM PER WC / UR	0	0	140 CFM	0	0	0	140 CFM	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST.
EF-9	UNISEX RR 132	95	70 CFM PER WC / UR	0	0	140 CFM	0	0	0	140 CFM	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST.
EF-11	MENS LOCKER ROOM 120	400	0.25	0	0	100	0	100	0	100	200 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 56 CFM O.A. PROVIDED V/A FUR-2.
	MENS SHOWER 123	244	70 CFM PER WC / 50 CFM PER SHWR	0	0	170 CFM	0	0	0	170 CFM	200 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 37 CFM O.A. PROVIDED V/A FUR-1.
EF-12	WOMENS RESTROOM 111	175	70 CFM PER WC	0	0	140 CFM	0	0	0	140 CFM	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 25 CFM O.A. PROVIDED V/A FUR-1.
	WOMENS LOCKER ROOM 112	208	0.25	0	0	52	0	52	0	52	150 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 25 CFM O.A. PROVIDED V/A FUR-1.
	WOMENS SHOWER 113	73	50 CFM PER SHWR	0	0	50 CFM	0	0	0	50 CFM	75 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 12 CFM O.A. PROVIDED V/A FUR-1.
	MENS RR 117	194	70 CFM PER WC / UR	0	0	280 CFM	0	0	0	280 CFM	300 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 44 CFM O.A. PROVIDED V/A FUR-2.
EF-13	UNISEX RR 103	64	70 CFM PER WC	0	0	70 CFM	0	0	0	70 CFM	75 CFM	QUANTITIES SHOWN ARE FOR EXHAUST. 13 CFM O.A. PROVIDED V/A FUR-1.
FUR-1	MUDROOM 119	144	0.06	5	2	18.64	0.8	23.3	1	23.3	50	
FUR-1	BREAKROOM 105	375	0.06	5	6	52.5	0.8	65.625	1	65.625	150	
FUR-1	VEST 101	100	0.06	5	1	11	0.8	13.75	1	13.75	38	
FUR-2	MECH. / IT 121	243	0.06	5	1	19.58	0.8	24.475	1	24.475	25	
FUR-2	OFFICE 115	76	0.06	5	1	9.56	0.8	11.95	1	11.95	25	
FUR-2	SUPR. 109	98	0.06	5	1	10.88	0.8	13.6	1	13.6	31	
FUR-2	SUPT. 108	112	0.06	5	1	11.72	0.8	14.65	1	14.65	50	
FUR-2	ASST. SUPT. 107	112	0.06	5	1	11.72	0.8	14.65	1	14.65	50	
FUR-2	SUPVR. 116	109	0.06	5	1	11.54	0.8	14.425	1	14.425	50	
FUR-2	CORRIDOR 122	229	0.06	0	0	13.74	0.8	17.175	1	17.175	32	
FUR-3	CONFERENCE 104	762	0.06	5	20	145.72	0.8	182.15	1	182.15	313	
FUR-3	ADMINISTRATOR 102	266	0.06	5	3	30.96	0.8	38.7	1	38.7	87	
FUR-2 & 3	CORRIDOR 110	583	0.06	0	0	34.98	0.8	43.725	1	43.725	87	

NOTES: VENTILATION RATES ARE BASED ON IMC 2012, IECC 2012, ASHRAE 62.1-2010. ASHRAE 62.1-2010 ITEM 6.2.2.1 BREATHING ZONE OUTDOOR AIR FLOW (CFM) VBz = RpPz+RaAz x 1.00

WHERE: Az = ZONE FLOOR AREA Pz = POPULATION Rp = TABLE 6.1 OUTDOOR AIR PER PERSON Ra = TABLE 6.1 OUTDOOR AIR PER AREA

SPLIT DX FAN COIL AND HEAT PUMP SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER OUTDOOR UNIT	MANUFACTURER & MODEL NUMBER INDOOR UNIT	NOMINAL TONNAGE	CFM HIGH	INDOOR UNIT WEIGHT (LBS.)	GROSS COOLING CAPACITY EAT DB/WB	GROSS COOLING CAPACITY TOTAL (MBH)	GROSS COOLING CAPACITY SENSIBLE (MBH)	HEATING CAPACITY HIGH @ 47°F (MBH)	HEATING CAPACITY COP2	HEATING CAPACITY HSPF2	OUTDOOR UNIT VOLTAGE	OUTDOOR UNIT MCA	OUTDOOR UNIT MOCP	OUTDOOR UNIT AMB. TEMP.	OUTDOOR UNIT SEER2 / EER2	UNIT WEIGHT (LBS.) W/O ACCESSORIES OUTDOOR	REMARKS
HP 1 / FC 1	DAIKIN 3MXS24WMJU9	DAIKIN FFQ09W2VJU9	2 - OUTDOOR .75 - INDOOR	378	39	80/67	24	-	24	4.4	9.7	208V 1 PH	18.1	25	95°F	18.0 / 11.7	150	SEE NOTES BELOW
FC 2 & 3		DAIKIN FFQ09W2VJU9	1.0 - INDOOR	406	39													

ACCESSORIES (PROVIDE THROUGH MANUFACTURER.):
1. CONDENSATE DRAIN PUMP (FAN COIL UNIT)
2. FILTER CABINET WITH MERV 8 FILTER. (FAN COIL UNIT)
2. TIME DELAY RELAY. (FAN COIL UNIT)
3. BALL BEARING FAN MOTOR. (HEAT PUMP)
4. LOW-AMBIENT CONTROL (5°F) COMPLETE WITH LOW-AMBIENT PRESSURE SWITCH KIT. (HEAT PUMP)
5. CRANKCASE HEATER. (HEAT PUMP)
6. ISOLATION RELAY. (HEAT PUMP)
7. EVAPORATOR FREEZE THERMOSTAT. (HEAT PUMP)
8. HARD START KIT. (HEAT PUMP)
9. COMPRESSOR START ASSIST - CAPACITOR & RELAY. (HEAT PUMP)
10. CYCLE PROTECTOR. (HEAT PUMP)
11. HARD SHUTOFF TXV. (HEAT PUMP)
12. PROGRAMMABLE THERMOSTAT
13. WIND BAFFLES. (HEAT PUMP)

NOTES:
1. REFER TO PLANS FOR THERMOSTAT LOCATIONS AND MOUNTING HEIGHTS.
2. MECHANICAL CONTRACTOR SHALL INSTALL ALL ACCESSORIES FURNISHED WITH UNIT.
3. CONTRACTOR TO INSTALL MERV 8 FILTER AT INSTALLATION OF FAN COIL UNIT, PRIOR TO INITIAL START UP AND PRIOR TO TURN-OVER.
4. PROVIDE TXV, LIQUID LINE DRYER/FILTER, SIGHT GLASS AND MOISTURE INDICATOR FOR EACH CIRCUIT.
5. HIGH WATER ALARM AT FAN COIL UNIT DRAIN PAN AND INTERLOCK TO FAN COIL UNIT TO SHUT DOWN ON ACTIVATION. REFER TO CONDENSATE DRAIN DETAIL ON DRAWING M301 FOR ADDITIONAL INFORMATION.
6. INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT.
7. MECHANICAL CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR REFRIGERANT LINE SETS DUE TO EXTENDED/LONG LENGTHS (IF NECESSARY). REFRIGERANT LINE SIZES/DIAMETERS TO BE SIZED SO THAT THERE IS NO COOLING OR HEATING CAPACITY LOSS. FINALIZE ROUTING LENGTHS AND RISES BEFORE ORDERING REFRIGERANT LINE SETS. PROVIDE ANY ADDITIONAL ACCESSORIES REQUIRED FROM MANUFACTURER FOR EXTEND/LONG REFRIGERANT LINE LENGTHS. REFRIGERANT LINES SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCHES FOR FAN COIL UNIT AND HEAT PUMP (COORDINATE WITH EQUIPMENT MANUFACTURER FOR DISCONNECT REQUIREMENTS).
9. FAN COIL UNIT WITHIN LAY-IN CEILING GRID TO BE MOUNTED FROM STRUCTURE WITH ALL THREADED RODS AND NEOPRENE VIBRATION ISOLATORS. DO NOT SUPPORT FROM GRID.
10. EXTERIOR HEAT PUMP WALL MOUNTING BRACKET.

MISCELLANEOUS EQUIPMENT SCHEDULE

TAG	MANUFACTURER & MODEL	DESCRIPTION	REMARKS
BAF 1 & 2	BIG ASS FANS POWER FOIL D	CEILING FAN	• 6 AIR FOIL BLADES AND WINGLETS WITH MILL FINISH ALUMINUM, 12 FEET DIAMETER • 208 / 60 / 1, 10 AMP • "Z" PURLIN MOUNT OPTION (FIELD VERIFY WITH GENERAL CONTRACTOR) • WALL MOUNTED CONTROLLER WITH LED DISPLAY WITH SAFETY DISCONNECT SWITCH INCLUDED • EMI / RFI FILTER • STANDARD POWER ON SHUT DOWN FIRE RELAY INCLUDED. (WIRED BY EC) • UL AND CSA CERTIFIED • INSTALL PER MANUFACTURER INSTRUCTION • WEIGHT (LBS) = 227 • 10 YEAR LIMITED WARRANTY NOTE: THIS IS AN EQUINE PROGRAM, DISCOUNT ASSOCIATED WITH BIG ASS FANS. FANS SHALL BE PURCHASED UNDER THIS PROGRAM.

MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
GD	BRASCH	GDCP-A MULTI-ZONE CONTROL PANEL GSE-CM-TRA CARBON MONOXIDE SENSOR/TRANSMITTER GSE-ND-TRA NITROGEN DIOXIDE SENSOR/TRANSMITTER	GAS DETECTOR SYSTEM - NITROGEN DIOXIDE (NO2) AND CARBON MONOXIDE (CO).	1. 120 VOLT, 60 HZ, 120 VA INPUT VOLTAGE. 2. NEMA 1 STEEL ENCLOSURE. 3. ELECTRO CHEMICAL SENSOR. 4. DETECTS NITROGEN DIOXIDE AND CARBON MONOXIDE. 5. LOW ALERT ALARM IS 35 PPM FOR CARBON MONOXIDE AND 1.0 PPM FOR NITROGEN DIOXIDE. 6. HIGH ALERT ALARM IS 100 PPM FOR CARBON MONOXIDE AND 5.0 PPM FOR NITROGEN DIOXIDE. 7. MOUNT PANEL AT 5'-0" A.F.F. 8. 120 VOLT / 24 VOLT VENTILATION CONTROL RELAYS. 9. UL 61010B-1 LISTED

SIMILAR MANUFACTURERS BY HONEYWELL OR ARMSTRONG.

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WDC GROUP

REVISIONS:

vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

MECHANICAL SCHEDULES

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M2.0

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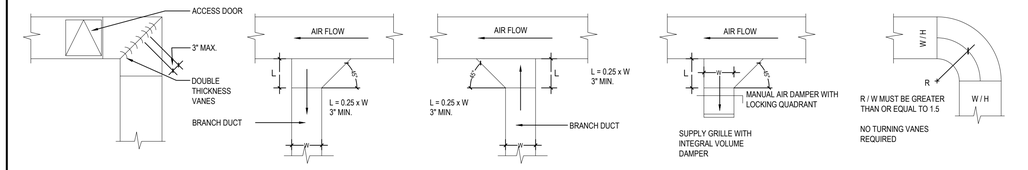
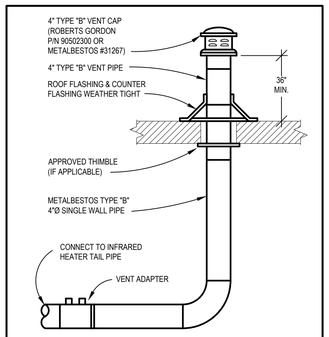


SQUARE ELBOW | SUPPLY TAP | RETURN TAP | SUPPLY TAP WITH SUPPLY GRILLE | ALTERNATE RECTANGULAR ELBOW

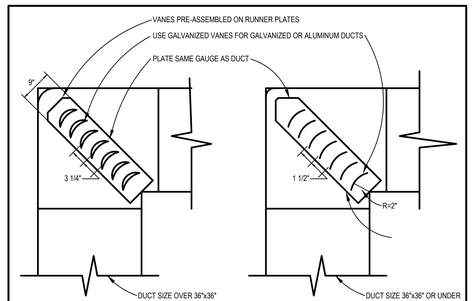
DUCTWORK DETAILS

NO SCALE



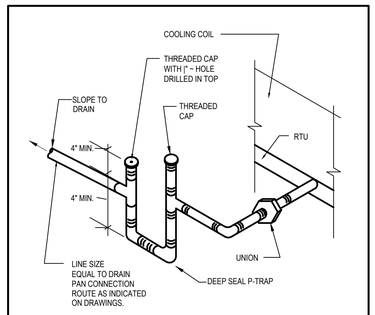
SINGLE VERTICAL VENTING CONFIGURATION DETAIL

NO SCALE



TURNING VANE DETAIL

NO SCALE



CONDENSATE P-TRAP DETAIL

NO SCALE

GRILLE, REGISTER AND DIFFUSER SCHEDULE

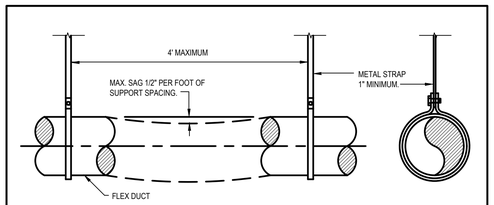
TAG	MANUFACTURER & MODEL NUMBER	CFM	AIR PATTERN	NECK SIZE	DAMPER	FRAME STYLE	PANEL SIZE	MAXIMUM NC LEVEL	FINISH	MATERIAL	REMARKS
CD A	PRICE SPD	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	LAY-IN CEILING MOUNTED	24"x24"	30	WHITE	STEEL	TAG, NECK SIZE, CFM
CD B	PRICE SPD	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	DRYWALL CL'G MOUNTED	24"x24"	30	WHITE	STEEL	
CD C	PRICE ASPD	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	LAY-IN CEILING MOUNTED	24"x24"	30	WHITE	ALUMINUM	
CD B	PRICE SPD	AS NOTED	AS SHOWN	AS NOTED	OPPOSED BLADE	DRYWALL CL'G MOUNTED	24"x24"	30	WHITE	STEEL	
EG A	PRICE 535	AS NOTED	EXHAUST	AS NOTED	OPPOSED BLADE	LAY-IN CEILING MOUNTED	24"x12"	30	WHITE	STEEL	
EG B	PRICE 535	AS NOTED	EXHAUST	AS NOTED	OPPOSED BLADE	DRYWALL CL'G MOUNTED	NECK SIZE + 1-3/4"	30	WHITE	STEEL	
EG C	PRICE 635	AS NOTED	EXHAUST	AS NOTED	OPPOSED BLADE	LAY-IN CEILING MOUNTED	24"x12"	30	WHITE	ALUMINUM	
EG D	PRICE 635	AS NOTED	EXHAUST	AS NOTED	OPPOSED BLADE	LAY-IN CEILING MOUNTED	12"x12"	30	WHITE	ALUMINUM	
RG A	PRICE 80	AS NOTED	RETURN	AS NOTED	NONE	LAY-IN CEILING MOUNTED	24"x12"	30	WHITE	ALUMINUM	
RG B	PRICE 80	AS NOTED	RETURN	AS NOTED	NONE	LAY-IN CEILING MOUNTED	24"x24"	30	WHITE	ALUMINUM	
RG C	PRICE 535	AS NOTED	RETURN	AS NOTED	NONE	DRYWALL CL'G MOUNTED	NECK SIZE + 1-3/4"	30	WHITE	STEEL	

LOUVER SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	UNIT SERVED	CFM	NOMINAL SIZE	MAX. O.A. VELOCITY (FPM)	MAX. PRESS. DROP (IN.)	FINISH	REMARKS
L 1	GREENHECK ESD-603	FURNACE (FUR-1)	400 (OUTSIDE AIR)	12"W x 12"H	750	0.10	AS SELECTED BY ARCHITECT	PROVIDE WITH 3/4" x 0.051" ALUMINUM BIRDSCREEN AND 6" FRAME DEPTH. BOTTOM OF LOUVER AT 10'-0" A.F.F. OR AS DIRECTED BY ARCHITECT.
L 2	GREENHECK ESD-603	FURNACES (FUR-1 & FUR-2)	800 (OUTSIDE AIR)	14"Wx 14"H	750	0.10	AS SELECTED BY ARCHITECT	PROVIDE WITH 3/4" x 0.051" ALUMINUM BIRDSCREEN AND 6" FRAME DEPTH. BOTTOM OF LOUVER AT 10'-0" A.F.F. OR AS DIRECTED BY ARCHITECT.

PROVIDE COMPLETE WITH EXTRUDED 6" DEEP ALUMINUM FRAME W/CAULKING SLOTS, EXTRUDED ALUMINUM BLADES, BIRDSCREEN, FACTORY PRIMED BAKED COLOR ANODIZED FINISH. FINAL COLOR AND FINISH AS SELECTED BY THE ARCHITECT. CHANNEL FRAME & AMCA CERTIFIED FOR BOTH SOUND & AIR.

SIMILAR MANUFACTURERS BY RUSKIN OR AIR BALANCE



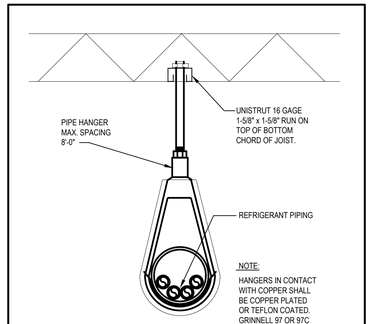
NOTES:

1.) DUCT SHOULD EXTEND STRAIGHT FOR 12 INCHES INCHES FROM A CONNECTION BEFORE BENDING.

2.) SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

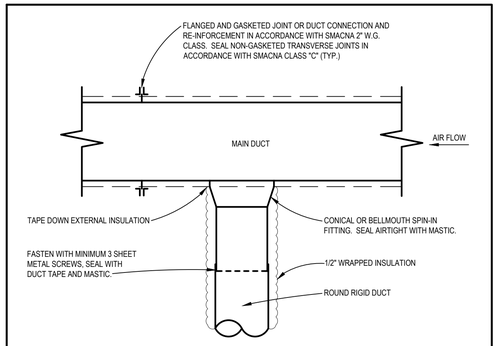
FLEX DUCT HANGING DETAIL

NO SCALE



PIPING HANGING DETAIL

NO SCALE



TYPICAL ROUND DUCT TAKE-OFF DETAIL

N.T.S.

GAS UNIT HEATER SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	TYPE	INPUT MBH	OUTPUT MBH	CFM	FULL LOAD AMPS	MOTOR HP & VOLTAGE	VENT CONNECTION	COMBUSTION AIR INLET	REMARKS
UH 1 - 3	REZNOR UBXC-30	NG-FIRED FAN TYPE	30.0	24.6	506	3.7	1/6 HP 115V, 1Ø	4" ROUND	4" ROUND	SEE NOTES BELOW
UH 4 & 5	REZNOR UBXC-60	NG-FIRED FAN TYPE	60.0	49.2	1012	7.1	1/3 HP 115V, 1Ø	4" ROUND	4" ROUND	SEE NOTES BELOW

NOTES: PROVIDE WITH THE FOLLOWING ITEMS:

1. VIBRATION ISOLATORS
2. SINGLE STAGE GAS VALVE
3. 115VOLT/24VOLT CONTROL TRANSFORMER
4. FULL FAN GUARD
5. POWER VENTER
6. VENT AND COMBUSTION AIR WALL PENETRATION
7. NATURAL GAS
8. VERIFY EXACT VENT CONNECT SIZE AND COMBUSTION AIR INLET SIZE IN FIELD.

SIMILAR MFG'S: STERLING & TRANE

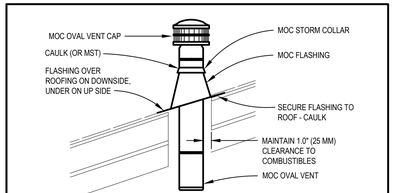
AIR BALANCE (CFM)

UNIT	POSITIVE	NEGATIVE
FUR-1	400	--
FUR-2	400	--
FUR-3	400	--
EF-11	--	420
EF-12	--	600
EF-13	--	70
TOTALS	(+)1200 CFM	(-)1090 CFM

NET: 110 CFM (+)
POSITIVE PRESSURE IN THE OFFICE ARE.

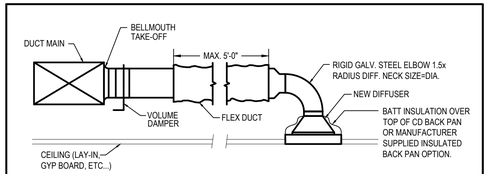
MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SA	SUPPLY AIR	EC	ELECTRICAL CONTRACTOR
CU	CONDENSING UNIT	MC	MECHANICAL CONTRACTOR
EA	EXHAUST AIR	PC	PLUMBING CONTRACTOR
EF	EXHAUST FAN	GC	GENERAL CONTRACTOR
EG	EXHAUST GRILLE	HP	HEAT PUMP UNIT
FUR	FURNACE		1" UNDERCUT DOOR
IRH	INFRARED HEATER	M	120V MOTORIZED DAMPER
GUH	GAS FIRED UNIT HEATER	CD	CONDENSATE DRAIN PIPING
CD	CEILING DIFFUSER	T	THERMOSTAT
OA	OUTSIDE AIR	TOD	TOP OF DUCT
RA	RETURN AIR	BOD	BOTTOM OF DUCT
RG	RETURN GRILLE		FLEXIBLE DUCT
CUH	CABINET UNIT HEATER		FLEXIBLE DUCT CONNECTOR
RTU	ROOFTOP UNIT		MANUAL VOLUME DAMPER
CUH	CABINET UNIT HEATER	R	CHANGE IN ELEVATION RISE (R) OR DROP (D)
SF	SUPPLY FAN		ELBOW W/ DBL THICKNESS TURNING VANES
FC	FAN COIL UNIT		FRESH/RETURN/EXHAUST AIR DUCT
GD	GAS DETECTOR SYSTEM		SUPPLY AIR DUCT
FUR	FURNACE		



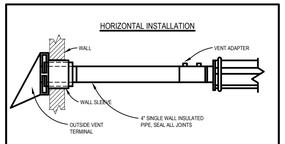
TYPICAL 'B' VENT FLUE DETAIL

NO SCALE



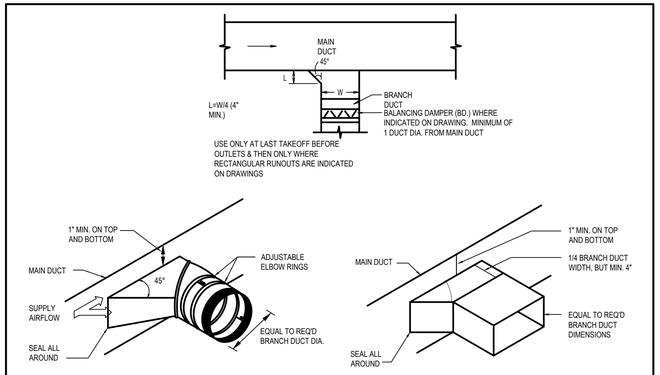
SUPPLY DUCT DETAIL

NO SCALE



HORIZONTAL VENT DETAIL

NO SCALE



TYPICAL BRANCH TAKE-OFF DETAILS

NO SCALE

CABINET UNIT HEATER SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	HEATING CAPACITY WATTS	HEATING CAPACITY BTU/HR	VOLTAGE	AMPS	REMARKS
CUH 1 & 2	MARKEL H3422T	2,000	6,826	240V, 1PH	8.3	WALL MOUNTED, INTEGRAL THERMOSTAT. MANUAL RESET THERMAL LIMIT

ALL WORK ON THIS SHEET BY 15B UNLESS OTHERWISE NOTED.

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REVISIONS:

vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
MECHANICAL SCHEDULES & DETAILS

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M3.0

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HEATING, VENTILATING & AIR CONDITIONING SPECIFICATIONS

A. IN RESPECT TO ALL MATERIALS REQUIRED, THE CONTRACTOR SHALL FURNISH MATERIALS MEETING AIEE, NEMA, NELA, ASME AND ASTM SPECIFICATIONS. THE INSTALLATION OF ALL WORK SHALL CONFORM TO ASHRAE GUIDE AND SHEET METAL PROMOTION PLAN STANDARDS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES FOR PERMITS PRIOR TO STARTING WORK.

B. MATERIALS SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED, AND SHALL BE PROTECTED FROM ALL INJURY UNTIL FINAL ACCEPTANCE OF THE SYSTEM. MECHANICAL CONTRACTOR SHALL BE LICENSED IN THIS AREA TO PERFORM THE NEW WORK.

C. THIS CONTRACTOR SHALL REMOVE ALL TOOLS, SURPLUS MATERIALS AND DEBRIS OF ALL KINDS FROM HIS WORK AND LEAVE ALL IN A CLEAN, PERFECT CONDITION, FULLY SATISFACTORY TO THE ARCHITECT.

D. CONTRACTOR SHALL PROVIDE OWNER WITH ONE (1) SET OF "AS-BUILT" DRAWINGS.

E. FURNISH ALL MATERIALS, TRANSPORTATION, RIGGING, HOISTING, ETC. TO PROVIDE A COMPLETE AND OPERABLE HEATING, AIR CONDITIONING AND VENTILATING SYSTEM.

F. ALL EQUIPMENT IS TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, ACCORDING TO MANUFACTURERS RECOMMENDATIONS AND GOOD PRACTICES. COORDINATE ALL WORK WITH OTHER TRADES AND WITH THE GENERAL CONTRACTOR.

G. ALL TEMPERATURE CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ALL REQUIRED CONTROLS AND WIRING DIAGRAMS AND SHALL SUPERVISE INSTALLATION.

H. SYSTEM IS TO BE AIR BALANCED BY AN INDEPENDENT BALANCE COMPANY. TO INCLUDE DIFFUSER CFM, RETURN CFM AND EXHAUST CFM WITH THREE (3) REPORTS SUBMITTED TO THE OWNER AND THREE (3) MAINTENANCE MANUALS TURNED OVER TO OWNER BEFORE FINAL ACCEPTANCE. ALL SYSTEMS AND EQUIPMENT ARE TO BE GUARANTEED FOR PARTS AND LABOR FOR ONE YEAR (EXCEPT AIR CONDITIONING COMPRESSOR SHALL HAVE FIVE (5) YEAR WARRANTY).

I. DUCTWORK AND PLENUMS SHALL BE AS SCHEDULED ON THE DRAWINGS PER SMACNA "DUCT CONSTRUCTION" CLASSIFICATION.

ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED SPIRAL DUCT. SPIRAL DUCT AND ALL FITTINGS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS, UNITED SHEET METAL, SPIRAMATIC OR SEMCO, WITH ELBOWS 12" AND SMALLER TO BE DIE FORMED FREE FLOW TYPE. IF CONTRACTOR OBTAINS APPROVAL FROM ENGINEER TO USE SINGLE WALL SPIRAL DUCTWORK, NO GORE LOCK ELBOWS OR ADJUSTABLE FITTINGS SHALL BE USED UNLESS SEALANT IS PROVIDED AT EACH SEAM.

J. SHEET METAL FABRICATION AND INSTALLATION SHALL BE AS FOLLOWS:

1. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH STANDARDS SET FORTH IN LATEST EDITION OF THE ASHRAE GUIDE AND SMACNA STANDARDS UNLESS MODIFIED HEREIN.
2. DUCT DIMENSIONS ARE GROSS EXCEPT FOR LINED DUCTS WHERE DIMENSIONS ARE NET FREE AREA.
3. DUCT SIZES SHOWN ON THE PLANS ARE ACTUAL SHEET METAL INSIDE DIMENSIONS AND SHALL BE ADHERED TO UNLESS JOB CONDITIONS REQUIRE ALTERATIONS. REVISIONS TO DUCT SIZES SHALL BE BASED ON THE "EQUAL FRICTION" METHOD.
4. ALL ELBOWS IN THE DUCT SYSTEM SHALL BE MADE WITH CENTERLINE RADIUS OF ONE AND ONE-HALF (1 1/2) TIMES THE TURNING WIDTH OF THE DUCT. WHERE SPACE PROHIBITS THE SPECIFIED MINIMUM RADIUS, SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES SHALL BE INSTALLED. CHANGES IN DUCT SIZES SHALL BE 15 DEG. DIVERGING AND 60 DEG. CONTRACTING, FLOW MAXIMUM ANGLES.
5. THE GENERAL ROUTE OF THE DUCTS IS SHOWN ON THE PLANS. THE EXACT ROUTE SHALL BE DETERMINED BY JOB CONDITIONS AND SHALL BE COORDINATED WITH ALL OTHER TRADES. ALL GRILLES, REGISTERS, DIFFUSERS, ETC., SHALL BE LOCATED SYMMETRICALLY WITH ELECTRIC LIGHT ARCHITECTURAL TREATMENT, ETC.
6. HANGERS TO BE 8 FT. CENTERS MAXIMUM WITH STRAPS FOR DUCTS (BENT UNDER BOTTOM OF DUCT AND ATTACHED). DUCTWORK SHALL BE SEALED.
7. INSTALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURAL STEEL.
8. NO FIBERGLASS DUCTBOARD WILL BE PERMITTED.

K. FURNISH AND INSTALL ALL MANUAL SPLITTER DAMPERS AND DEFLECTORS INDICATED ON DRAWINGS OR NECESSARY TO PROPERLY DISTRIBUTE AND BALANCE AIR.

L. HVAC EQUIPMENT SHALL BE AS SCHEDULED ON DRAWING.

M. INSULATION SHALL BE AS FOLLOWS:

1. ALL INSULATION, VAPOR BARRIER, JACKETS AND ADHESIVE USED FOR APPLYING INSULATION SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM-84, NFPA-255, AND U.L. 723 NOT EXCEEDING A FLAME SPREAD 25 AND SMOKE DEVELOPED OF 50.
2. ALL NEW CONCEALED SUPPLY AIR DUCTWORK SHALL BE WRAPPED WITH OWENS-CORNING TYPE 150, 1-1/2" DUCT WRAP (6.0 R-VALUE). TAPE ALL SEAMS WITH MINIMUM 2" WIDE TAPE. RETURN AIR DUCTWORK SHALL BE LINED WITH 1" ACOUSTIC LINING, OWENS-CORNING TYPE 300.
3. DUCTS PASSING THRU ROOF SHALL BE PROVIDED WITH INSULATED ROOF CURB AND COUNTERFLASHING.
4. OTHER APPROVED MANUFACTURERS: MANSVILLE, KNAUF, CERTAINTEED.

N. PROVIDE WITH SPIN-IN TRUNK CONNECTIONS WITH AIR SCOOP AND VOLUME DAMPER.

O. FLEXIBLE CONNECTION AT THE INLET AND OUTLET OF THE AIR MOVING UNIT, EXHAUST FANS AND HVAC UNIT CONNECTED TO DUCTWORK. MATERIALS SHALL BE NON-COMBUSTIBLE TWELVE (12) OUNCES PER SQUARE YARD, NFPA-90A APPROVED.

P. PROVIDE NEW HONEYWELL T7300A PROGRAMMABLE THERMOSTAT WITH SUBBASE TO PERFORM 2-STATE COOLING WITH ECONOMIZER CONTROL, 2-STAGE HEATING FOR GAS HEAT, LOCKABLE COVER, 7-DAY TIME CLOCK AUTOMATIC CHANGEOVER.

Q. FLEXIBLE INSULATED DUCT SHALL BE THERMAFLEX TYPE M-KE FACTORY ASSEMBLED DUCT CONSISTING OF COLD ROLLED FLAT STEEL SPRING, CONTINUOUS NON-PERFORATED INNER AIR SEAL LINER, 0.23 THERMAL CONDUCTANCE FIBERGLASS INSULATION, AND FIBERGLASS REINFORCED METALIZED FILM VAPOR BARRIER. DUCTS SHALL BE LISTED BY UL, CONFORM TO NFPA CLASS I WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT OF 50 OR LESS.

FLEXIBLE NON-INSULATED DUCT SHALL BE THERMFLEX TYPE S-LD FACTORY ASSEMBLED DUCT CONSISTING OF A REINFORCED FILM LAMINATE PERMANENTLY BONDED TO A CORROSION RESISTANT SPRING STEEL WIRE HELIX. DUCTS SHALL BE LISTED BY UL, CONFORM TO NFPA CLASS I CONNECTOR WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED OF 50 OR LESS.

GENERAL NOTES:

1. THE MECHANICAL CONTRACTOR SHALL ALSO ARRANGE THE FINAL INSPECTIONS BY THE BUILDING AUTHORITIES.
2. NO PIPING, HANGERS, DUCTWORK, ETC., SHALL BE SUSPENDED FROM ROOF DECK. ALL ITEMS SHALL BE SUSPENDED FROM STRUCTURAL STEEL.
3. ALL ROOF EQUIPMENT (ROOF CURBS, EQUIPMENT SUPPORTS AND MISCELLANEOUS STEEL ANGLE FRAMING AND/OR SUPPORTS) SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. THE FLASHING OF TENANT OCCUPANCY ROOF EQUIPMENT SHALL BE DONE BY THE GENERAL CONTRACTOR'S ROOFING SUBCONTRACTOR AT THE MECHANICAL CONTRACTOR'S EXPENSE. CUTTING OF REQUIRED ROOF OPENINGS SHALL BE DONE BY THE ROOFING SUBCONTRACTOR AT THE MECHANICAL CONTRACTOR'S EXPENSE. A MEETING SHALL BE ARRANGED AT THE JOBSITE WITH THE MECHANICAL CONTRACTOR SO THAT THE ROOFING SUBCONTRACTOR CAN DETERMINE THE SCOPE OF WORK INVOLVED. THE PROJECT MANAGER DURING CONSTRUCTION PERIOD OR WHEN CONSTRUCTION IS BEGINNING WILL MAKE THE NECESSARY ARRANGEMENTS FOR THIS MEETING.
4. MECHANICAL CONTRACTOR TO MAINTAIN MINIMUM 10 FEET BETWEEN EXHAUST VENTS, FANS, ETC., AND OUTSIDE AIR INTAKES.
5. MECHANICAL CONTRACTOR SHALL VERIFY VOLTAGES WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING OF ANY AND ALL MECHANICAL EQUIPMENT.
6. MECHANICAL CONTRACTOR SHALL INSURE A MINIMUM 10'-0" WORKING CLEARANCE FROM EDGE OF BUILDING.

REFRIGERANT PIPING NOTES:

1. A/C CONDENSATE DRAIN PIPING SHALL BE TYPE 'L' HARD DRAWN COPPER TUBING (ASTM B-88 LATEST REVISION) WITH WROUGHT COPPER FITTING AND SOLDERED JOINTS WITH 95-5 TIN ANTIMONY.
2. CONNECTION BETWEEN COPPER PIPING AND FERROUS PIPING OR EQUIPMENT SHALL BE MADE WITH DIELECTRIC UNION.
3. REFRIGERANT PIPING SHALL BE TYPE 'L' HARD DRAWN COPPER (REFRIGERATION GRADE ARC) WROUGHT COPPER FITTINGS (LONG RADIUS ELBOWS). COPPER TO BRASS OR STEEL JOINTS SHALL BE MADE USING A 45% SILVER ALLOY SUCH AS 'EASY-FLO' WITH FLUX. INERT NITROGEN SHALL BE PASSED THROUGH THE PIPING DURING BRAZING OPERATIONS TO PREVENT OXIDATION. PIPING SHALL BE CUT USING TUBING CUTTER ONLY, HACKSAW CUTS ARE PROHIBITED.
4. AFTER THE INSTALLATION IS COMPLETE, LEAK TEST THE COMPLETE SYSTEM USING A MIXTURE OF NITROGEN AND SYSTEM REFRIGERANT PRESSURIZED TO 75 PSIG.
5. AFTER LEAK TESTING, THE ENTIRE PIPING SYSTEM SHALL BE EVACUATED TO 1,500 MICRONS.
6. AFTER EVACUATION, THE SYSTEM SHALL BE CHARGED WITH THE PROPER AMOUNT OF REFRIGERANT FOR DESIGNED OPERATION.
7. THE REFRIGERANT LINES MAY BE PRE-ENGINEERED SYSTEM BY UNIT MANUFACTURER INSTEAD OF MATERIAL LISTED ABOVE.
8. PIPING INSULATION
   A) REFRIGERANT PIPING SUCTION LINE TO BE INSULATED WITH 1" THICK ARMAFLEX PIPE INSULATION.
   B) CONDENSATE DRAIN LINE FROM AHU TO BE INSULATED WITH 1" THICK ARMAFLEX PIPE INSULATION.

MECHANICAL GENERAL

A. THE CONTRACTOR FOR THIS WORK IS REFERRED TO "INSTRUCTIONS TO BIDDERS" AND "GENERAL CONDITIONS" AND "SPECIAL CONDITIONS" AS PART OF THIS CONTRACT.

B. CONTRACTOR ALSO REFERRED TO ALL ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER OWNER DRAWINGS PERTAINING TO PROJECT. ALL OF ABOVE MENTIONED DRAWINGS, AS WELL AS THEIR RESPECTIVE SPECIFICATIONS, ARE A PART OF CONTRACT DOCUMENTS.

C. MECHANICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER, FURNISH ANY MATERIAL OR LABOR CALLED FOR IN ONE EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH.

D. INSTALL AND CONNECT EQUIPMENT, SERVICES AND MATERIALS IN ACCORDANCE WITH BEST ENGINEERING PRACTICE AND ACCORDANCE WITH VARIOUS MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. FURNISH AND INSTALL COMPLETE AUXILIARY PIPING, VALVES, WATER SEALS, ELECTRICAL CONNECTIONS, ETC., RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION.

E. FURNISH MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON DRAWINGS OR CALLED FOR IN SPECIFICATIONS BUT WHICH IS OBVIOUSLY A COMPONENT PART OF AND NECESSARY TO COMPLETE WORK OF SIMILAR CHARACTER.

F. THIS CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS OR LICENSES REQUIRED TO CARRY OUT THIS WORK. HE SHALL PAY FOR ALL CHARGES MADE BY INSPECTION. NOTE: ALL CONTRACTORS SHALL BE LICENSED IN THE COUNTY, CITY, ETC. TO PERFORM ALL NEW WORK.

G. THIS CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND ALL LOCAL LEGAL REQUIREMENTS. ALL LAWS, RULES AND REGULATIONS OF STATE AND LOCAL GOVERNING AGENCIES SHALL BE CONSIDERED A PART OF THESE SPECIFICATIONS AS FULLY AS IF WRITTEN HEREIN. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY CHANGES NECESSARY FOR CODE COMPLIANCE REGARDLESS OF THE METHOD OF INSTALLATION SHOWN ON THE DRAWINGS OR SPECIFIED.

H. THIS CONTRACTOR SHALL TAKE OUT PERMIT WITH PROVISIONS OF INSPECTION BEFORE STARTING ANY WORK. FEE FOR SAME SHALL BE PART OF THIS CONTRACT.

I. WHEN WORK IS COMPLETED, THIS CONTRACTOR SHALL FURNISH TO THE ARCHITECT CERTIFICATES OF APPROVAL FROM THE RESPONSIBLE INSPECTION AGENCIES BEFORE FINAL PAYMENT OF CONTRACT WILL BE ALLOWED.

J. TESTING OF ALL WORK UNDER THIS CONTRACT SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL APPARATUS, EQUIPMENT, FIXTURES, ETC., SHALL FULLY MEET THE REQUIREMENTS OF THESE SPECIFICATIONS AND DRAWINGS.

K. INSTALL FINAL APPLICATION OF LUBRICATION OIL, REFRIGERANT CHARGE, AND ALL OTHER SUPPLIES NECESSARY TO PLACE THE EQUIPMENT IN OPERATION.

L. CONTRACTOR SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

M. ALL POWER WIRING OF MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR. FURNISH THE ELECTRICAL CONTRACTOR WIRING DIAGRAMS FOR ALL ELECTRICALLY POWERED EQUIPMENT PROVIDED WITH THE CONTRACT WHICH SHALL INDICATE THE SERVICE REQUIRED AND ELECTRIC LOAD INVOLVED.

N. THIS CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS, AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THIS CONTRACT INVOLVES REMODELING OF EXISTING BUILDING AND THEREFORE SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING AND SEWERS BEFORE STARTING WORK.

O. SUBMIT SHOP DRAWINGS, CATALOG SHEETS FOR EQUIPMENT, FIXTURES, DUCTWORK LAYOUT, WIRING DIAGRAMS, ETC., IN PDF FORMAT TO THE ARCHITECT FOR REVIEW. EACH CONTRACTOR IS RESPONSIBLE TO DISTRIBUTE APPROVED SHOP DRAWINGS TO ALL OTHER TRADES AFFECTED BY HIS WORK, EQUIPMENT, ETC., FOR COORDINATION.

P. ASSEMBLE AND SUBMIT TO THE ARCHITECT FOR SUBSEQUENT SUBMISSION TO THE OWNER, THREE (3) COMPLETE SETS OF OPERATIONS MANUALS AND MAINTENANCE REQUIREMENTS, COPY OF FIXTURE CUTS WITH MANUFACTURER'S NAME AND MODEL NUMBER, EQUIPMENT WARRANTIES, ETC., FOR EACH ITEM FURNISHED.

Q. ALL CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES (GENERAL CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, ETC.) AFFECTED BY THAT PIECE OF EQUIPMENT (ROOF OPENINGS, WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC.) PRIOR TO ORDERING EQUIPMENT AND AGAIN PRIOR TO INSTALLATION (ROOFTOP EQUIPMENT PRIOR TO LIFTING ONTO ROOF). NO EXTRA COMPENSATION WILL BE APPROVED IF COORDINATION IS NOT PERFORMED BY EACH RESPECTIVE CONTRACTOR AND SUBCONTRACTOR.

R. CONTRACTOR HAS EXAMINED THE CONTRACT DOCUMENTS AND REPRESENTS TO OWNER THAT THE CONTRACT DOCUMENTS ARE COMPLETE AND SUFFICIENT AND INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK FOR THE CONTRACT SUM. CONTRACTOR FURTHER REPRESENTS THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS BECOME FAMILIAR WITH THE ACCESS REQUIREMENTS AND OTHER CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS RECEIVED ALL CLARIFICATIONS NEEDED BY CONTRACTOR TO ASSURE ITSELF THAT THE WORK CAN BE PERFORMED FOR THE CONTRACT SUM. IF THERE IS ANY INCONSISTENCY IN THE QUALITY OR QUANTITY OF WORK REQUIRED UNDER THE CONTRACT DOCUMENTS, OR SHOULD THE DRAWINGS AND SPECIFICATIONS APPEAR TO BE IN DISAGREEMENT WITH EACH OTHER RELATIVE TO THE QUALITY OR QUANTITY OF WORK REQUIRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY AND/OR GREATER QUANTITY UNLESS WRITTEN INSTRUCTIONS ARE OTHERWISE FURNISHED TO CONTRACTOR BY OWNER.

S. DEVIATIONS FROM THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN OWNER OR ARCHITECT CONSENT WILL BE AT RISK TO THE G.C. ANY EFFORT MADE BY THE ARCHITECT AND/OR ENGINEER TO MODIFY THE CONSTRUCTION DOCUMENTS OR LETTERS OF RESPONSIBILITY FOR APPROVAL BY INSPECTORS DUE TO WORK PERFORMED BY CONTRACTOR OTHER THAN THE ORIGINAL DESIGN WILL BE BILLED TO CLIENT WHO WILL BACK CHARGE TO G.C. AS A DEDUCT FROM THEIR PAYMENTS.

T. NOTE: THE MECHANICAL AND PLUMBING CADD FILES OF THE CONSTRUCTION DOCUMENTS ARE THE INTELLECTUAL PROPERTY OF POINT ONE DESIGN, LLC, AND WILL NOT BE AVAILABLE FOR THE CONSTRUCTION PHASE UNLESS MET WITH A REDUCTION IN COST TO THE OWNER AND/OR PURCHASED AT A NOMINAL RATE PER DRAWING (TO BE NEGOTIATED).

U. FIRESTOPPING
1. MANUFACTURERS: DOW CORNING CORP., HILTI CORP., 3M FIRE PROTECTION PRODUCTS, SPECIFIED TECHNOLOGY INC., OR METRAFLEX.
2. PRODUCT DESCRIPTION: DIFFERENT TYPES OF PRODUCTS BY MULTIPLE MANUFACTURERS ARE ACCEPTABLE AS REQUIRED TO MEET SPECIFIED SYSTEM DESCRIPTION AND PERFORMANCE REQUIREMENTS; PROVIDE ONLY ONE TYPE FOR EACH SIMILAR APPLICATION.
   a. SILICONE FIRESTOPPING ELASTOMERIC FIRESTOPPING: SINGLE OR MULTIPLE COMPONENT SILICONE.
   b. ELASTOMERIC COMPOUND AND COMPATIBLE SILICONE SEALANT.
   c. FOAM FIRESTOPPING COMPOUNDS: SINGLE OR MULTIPLE COMPONENT FOAM COMPOUND.
   d. FORMULATED FIRESTOPPING COMPOUND OF INCOMBUSTIBLE FIBERS: FORMULATED COMPOUND MIXED WITH INCOMBUSTIBLE NON-ASBESTOS FIBERS.
   e. FIBER STUFFING AND SEALANT FIRESTOPPING: COMPOSITE OF MINERAL FIBER STUFFING INSULATION WITH SILICONE ELASTOMER FOR SMOKE STOPPING.
   f. MECHANICAL FIRESTOPPING DEVICE WITH FILLERS: MECHANICAL DEVICE WITH INCOMBUSTIBLE FILLERS AND SILICONE ELASTOMER, COVERED WITH SHEET STAINLESS STEEL JACKET, JOINED WITH COLLARS, PENETRATION SEALED WITH FLANGED STOPS.
   g. INTUMESCENT FIRESTOPPING: INTUMESCENT PUTTY COMPOUND WHICH EXPANDS ON EXPOSURE TO SURFACE HEAT GAIN.
   h. FIRESTOP PILLOWS: FORMED MINERAL FIBER PILLOWS.

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WDC GROUP

REVISIONS:

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

MECHANICAL SPECIFICATIONS

PROJECT NO.: 23014
DRAWN BY: JD
DATE: 05-18-2026
CHECKED BY: NAM

M4.0

ELECTRICAL LEGEND

ELECTRICAL LEGEND NOTES:
1. MOUNTING HEIGHTS INDICATED ARE TO THE TOP OF THE DEVICE OR FIXTURE.
2. MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION ON EXACT DEVICE AND FIXTURE LOCATIONS, MOUNTING HEIGHTS AND COORDINATION WITH ARCHITECTURAL HARDWARE AND FIXTURES.
4. NOT ALL SYMBOLS APPLY.

LIGHTING		POWER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
$	WALL SWITCH @48" A.F.F. 20A, 120V		DUPLEX RECEPTACLE @20" A.F.F, 20A, 125V
$3	THREE-WAY SWITCH @48" A.F.F., 20A, 120V		DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER @20" A.F.F.; 20A, 125V
$D	WALL SWITCH @48" A.F.F. 20A, 120V	WP	DUPLEX RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER @18" A.F.F. OR A.F.G. 20A, 125V
OS	OCCUPANCY SENSOR WALL MOUNTED @48" A.F.F.		DOUBLE DUPLEX RECEPTACLE @ 20" A.F.F, 20A, 125V
OS	OCCUPANCY SENSOR CEILING MOUNTED		SPECIAL RECEPTACLE AMPERAGE. @20" A.F.F COORDINATE NEMA CONFIG. WITH EQUIPMENT FED.
	LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE.	J	JUNCTION BOX MOUNTED AS NOTED.
NL	LIGHT FIXTURE ON NIGHT LIGHT		SAFETY DISCONNECT SWITCH @60" A.F.F. TO TOP
	CEILING LIGHTING OUTLET, RECESSED OR SURFACE MOUNTED PER FIXTURE SCHEDULE		PANELBOARD, SURFACE MOUNTED @6'-0" A.F.F. TO TOP
	WALL LIGHTING OUTLET @ HEIGHT PER FIXTURE SCHEDULE OF ARCHITECTURAL ELEVATIONS.		PANELBOARD, FLUSH MOUNTED @6'-0" A.F.F. TO TOP
	EMERGENCY EXIT LIGHT, SINGLE FACE, CLG. MOUNTED.	EF	CEILING EXHAUST FAN BY M.C. WIRED BY (FURN E.C.) MAKE ALL CONNECTIONS AS INDICATED ON DRAWING.
	EMERGENCY EXIT LIGHT, SINGLE FACE, WALL MOUNTED		4" SQ. BOX W/G PLASTER RING @20" A.F.F FOR DATA OUTLET. COVERPLATE WIRING & TERMINATION BY OWNER RUN 3/4"C. FROM BOX UP IN WALL TO ABOVE ACCESSIBLE CEILING
	COMBINATION EMERGENCY EXIT/EGRESS LIGHT, SINGLE FACE, CEILING MOUNTED		
	EMERGENCY EGRESS LIGHT @90" A.F.F WALL MOUNTED	OSD	COMBINATION OCCUPANCY DIMMER(ON)/SENSOR(OFF) @48" AFF
EMR	EMERGENCY REMOTE HEAD FOR EXIT DISCHARGE		

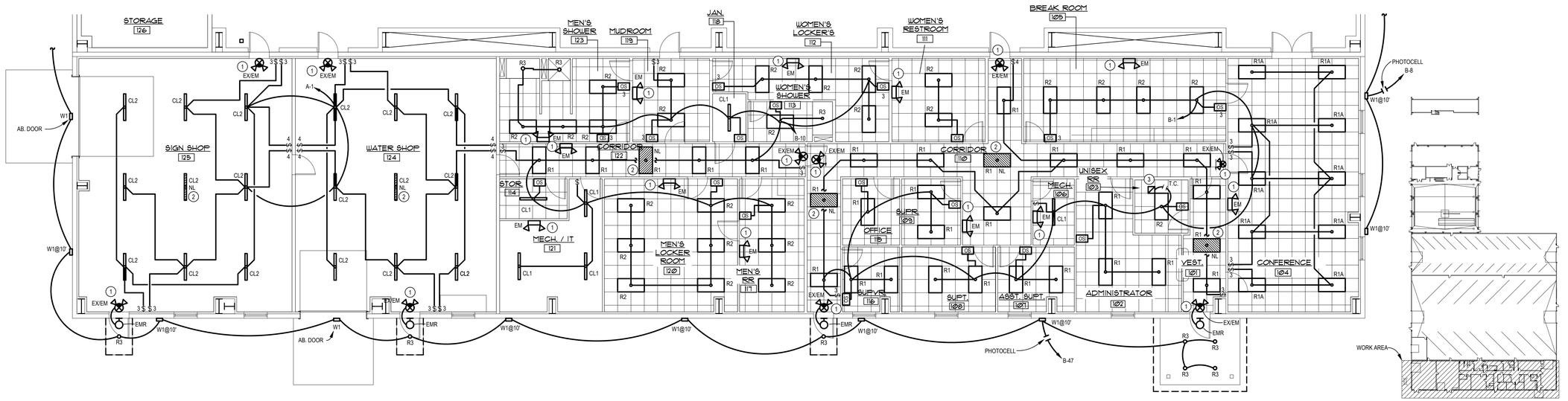
LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	VOLT	LAMP	MOUNT	MANUFACTURER
CL1	4' LED STRIP	120	18.5 W LED 3000 LUM 4000 K	SURFACE CEILING	LITHONIA CLX-L48-3000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH
CL2	4' LED STRIP, FURNISH ALL MOUNTING HARDWARE.	120	46.6 W LED 7000 LUM 4000 K	CEILING/ROOF STRUCTURE AS HIGH AS POSS.	LITHONIA CLX-L48-7000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH
CL3	LED HIGHBAY, FURNISH ALL MOUNTING HARDWARE & ACCESSORIES.	120	133 W 18000 LUM 4000 K	CEILING/ROOF STRUCTURE AS HIGH AS POSS.	LITHONIA CPHB-18000LM-SEF-GCL-MD-MVOLT-GZ10-40K-80CRI
CL4	8' VAPORTIGHT LINEAR LED STRIP, WET LOCATION, STAINLESS STEAL LATCHES. FURNISH ALL MOUNTING HARDWARE & ACCESSORIES.	120	84 W LED 10000 LUM 5000 K	CEILING / STRUCTURE	LITHONIA CSVT-L96-10000LM-MVOLT-40K-80CRI-STSL
CL5	8' VAPORTIGHT LED STRIP, STAINLESS STEEL LATCHES, FURNISH ALL MOUNTING HARDWARE & ACCESSORIES	120	103 W LED 12000 LUM 4000 K	CEILING/ROOF STRUCTURE AS HIGH AS POSS.	LITHONIA CVST-12000LM-MVOLT-40K-80CRI-STSL
CL6	4' ENCLOSED & GASKETED LINEAR LED STRIP, WET LOCATION, STAINLESS STEEL LATCHES. FURNISH ALL MOUNTING HARDWARE & ACCESSORIES.	120	51 W LED 8000 LUM 5000 K	CEILING / STRUCTURE	LITHONIA FEM-L48-8000LM-LPAFL-WD-MVOLT-GZ10-50K-80CRI-STSL
R1	2'X4' LED VOLUMETRIC	120	24.1 W 3000 LUM 3500 K	RECESSED LAY-IN	LITHONIA STAK-2X4-3000LM-80CRI-35K-COL-MIN10-MVOLT
R1A	2'X4' LED VOLUMETRIC. INCLUDE FLANGE FOR DRYWALL CEILING INSTALL.	120	33.3 W 4000 LUM 3500 K	RECESSED LAY-IN	LITHONIA STAK-2X4-4000LM-80CRI-35K-COL-MIN10-MVOLT
R2	2'X4' LED PANEL, LOW LUMEN SETTING	120	25.9 W LED 4000 LUM 3500 K	RECESSED LAY-IN	LITHONIA CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT
R3	6" LED DOWNLIGHT, WET LOCATION LISTED W/ COVERED CEILING	120	13 W LED 1600 LUM 3500 K	RECESSED CEILING	LITHONIA LBR6-MCH-AL02-SWW1-AR-LSS-MWD-MVOLT-UGZ-WL
W1	EXTERIOR LED WALLPACK, WET LOCATION LISTED, BLACK FINISH	120	21 W LED 3231 LUM 4000 K	EXTERIOR WALL @ HEIGHT NOTED	LITHONIA DSXW-P3-40K-80CRI-TFTM-MVOLT-DDBXD
W2	EXTERIOR LED WALLPACK, WET LOCATION LISTED, BLACK FINISH.	120	73 W LED 10354 LUM 4000 K	EXTERIOR WALL @ HEIGHT NOTED	LITHONIA DSXW-P7-40K-80CRI-TFTM-MVOLT-DDBXD
EX/EM	SELF CONTAINED EMERGENCY EXIT COMBO SINGLE FACE	120	LED FURNISHED W / UNIT	UNIVERSAL	LITHONIA QUANTUM SERIES
EMR	EXIT DISCHARGE REMOTE HEAD POWERED FROM "EX/EM"	LV	LED FURNISHED W / UNIT	EXT. WALL ADJACENT TO DOOR	LITHONIA ERE SERIES
EM	SELF CONTAINED EMERGENCY EGRESS LIGHT	120	LED FURNISHED W / UNIT	WALL @ 90" OR STRUCTURE	LITHONIA EU2L SERIES
EMA	HIGH LUMEN EMERGENCY EGRESS LIGHT	120	LED FURNISHED W / UNIT	CEILING STRUCTURE	LITHONIA
EMAH	HIGH LUMEN HAZARDOUS LOCATION EMERGENCY EGRESS	120	LED FURNISHED W / UNIT	UNIVERSAL	LITHONIA WLTC-I-R
EX/EM/W	SELF CONTAINED EMERGENCY EXIT COMBO UNIT, WET LOCATION LISTED.	120	LED FURNISHED W / UNIT	UNIVERSAL	LITHONIA QUANTUM SERIES
EMW	SELF CONTAINED EMERGENCY EGRESS LIGHT, WET LOCATION LISTED.	120	LED FURNISHED W / UNIT	WALL @ 90" OR STRUCTURE	LITHONIA WLTU-GY-MR

NOTES:
1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. EQUAL FIXTURES BY COOPER, HUBBELL, LSI, PHILLIPS OR LITHONIA.

LIGHTING CODED NOTES

1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. CONNECT OFFICE & SHOP NIGHT LIGHTS (NL) TO CIRCUIT B-45.
3. EXH. FAN EF-13, 80 WATT, 120V. WIRE THROUGH TIME CLOCK (BY E.C.) CONNECT TO ROOM LIGHTING CIRCUIT AHEAD OF SWITCH.



LIGHTING PLAN 'A'

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

KEY PLAN

N.T.S.

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WDC GROUP

REVISIONS:

vandalia ohio small city. big opportunity.

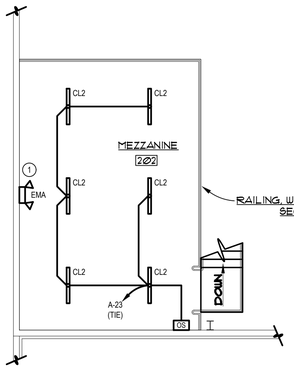
A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

LIGHTING PLAN 'A'

PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	05-18-2026
CHECKED BY:	VWE

E1.1

96 OF 112

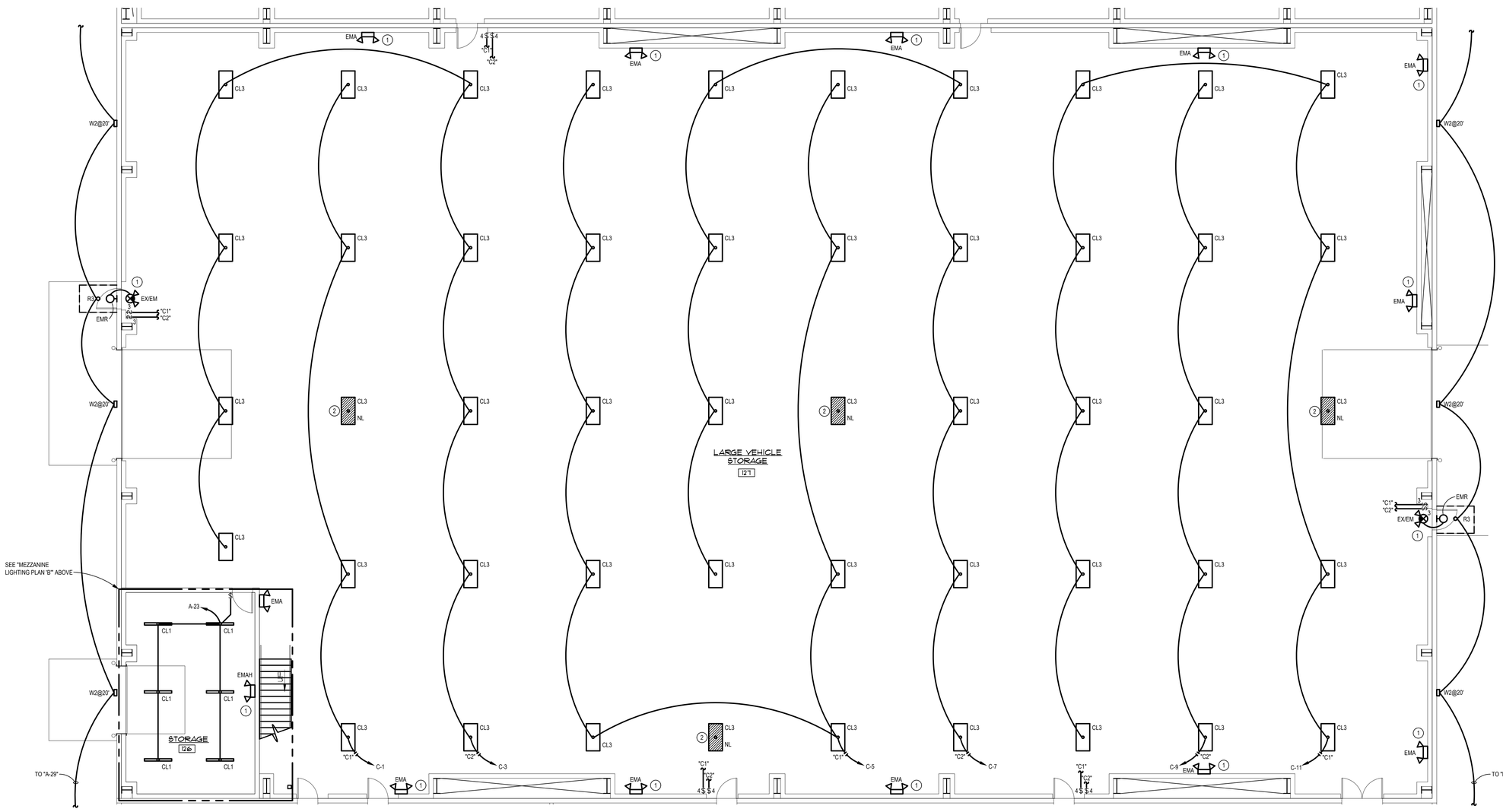


MEZZANINE LIGHTING PLAN 'B'

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

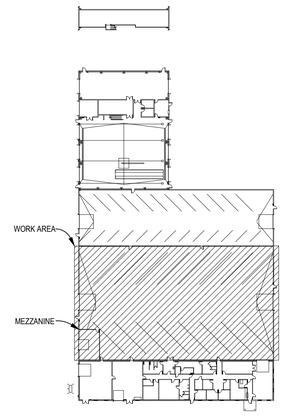
LIGHTING CODED NOTES

1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. CONNECT VEHICLE STORAGE NIGHT LIGHTS/EMERGENCY LIGHTS (NL) TO CIRCUIT C-45.



LIGHTING PLAN 'B'

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



KEY PLAN

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WDC GROUP

REVISIONS:

vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

LIGHTING PLAN 'B'

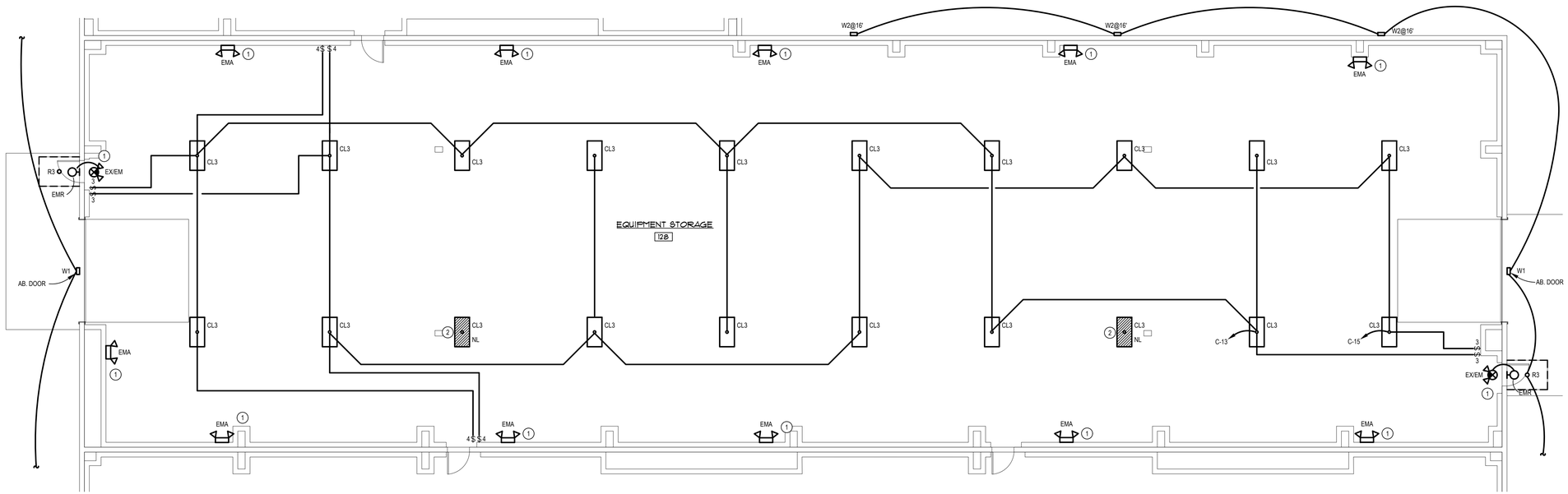
PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	05-18-2026
CHECKED BY:	VWE

E1.2

97 OF 112

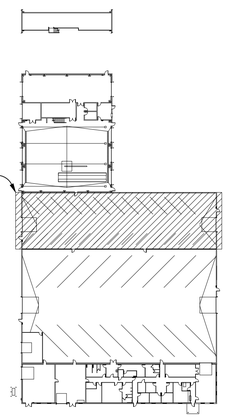
LIGHTING CODED NOTES

1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. CONNECT EQUIPMENT STORAGE NIGHT LIGHTS (NL) TO CIRCUIT C-45.



LIGHTING PLAN 'C'

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



KEY PLAN

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A NEW
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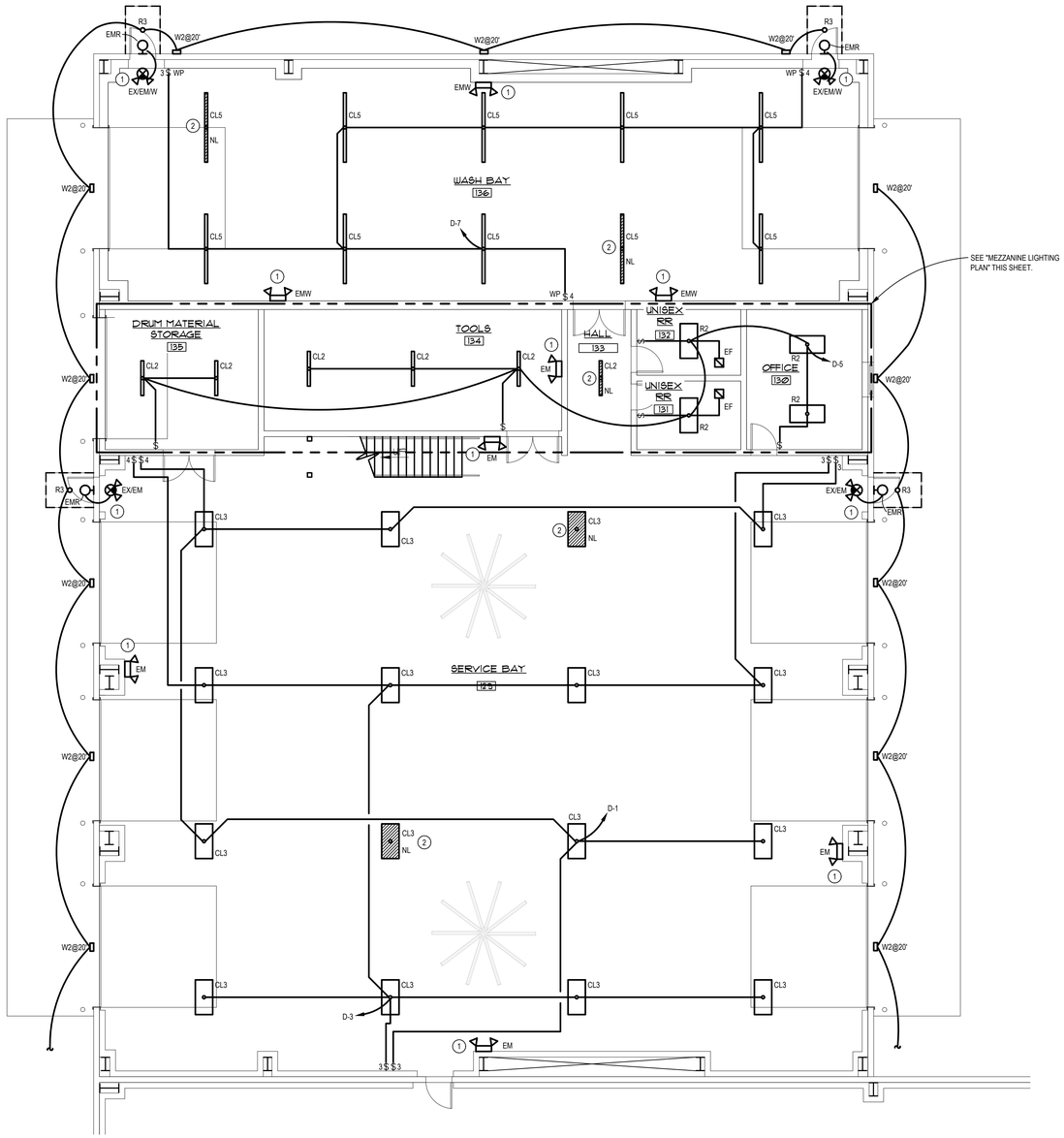
FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

LIGHTING PLAN 'C'

PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	03-18-2026
CHECKED BY:	VUE

E1.3

98 OF 112

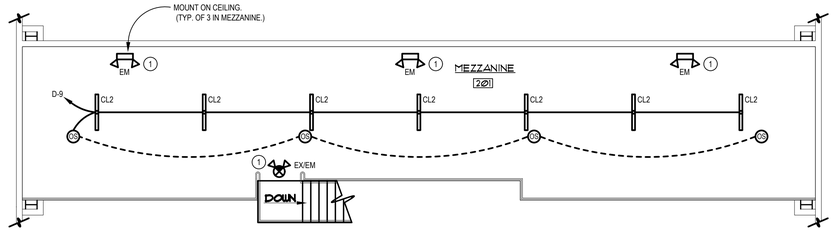


LIGHTING PLAN 'D'

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

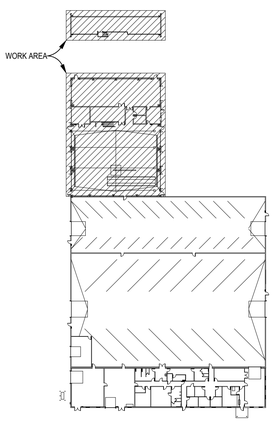
LIGHTING CODED NOTES

1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. CONNECT WASH BAY, HALL, SERVICE BAY & MEZZANINE NIGHT LIGHTS/EMERGENCY LIGHTS (NL/EM) TO CIRCUIT D-43.



MEZZANINE LIGHTING PLAN

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



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A NEW
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FOR
THE CITY OF VANDALIA
VANDALIA, OHIO 45377

LIGHTING PLAN 'D'

PROJECT NO.:	23014
DRAWN BY:	TSP
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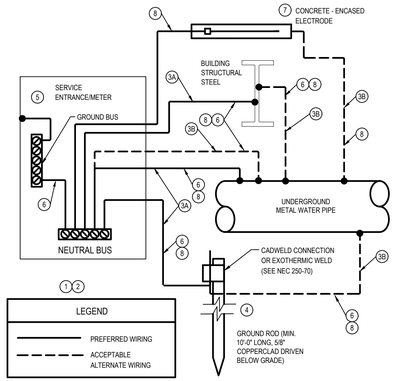


SERVICE ENTRANCE GROUNDING DETAIL

NO SCALE

CODED NOTES:

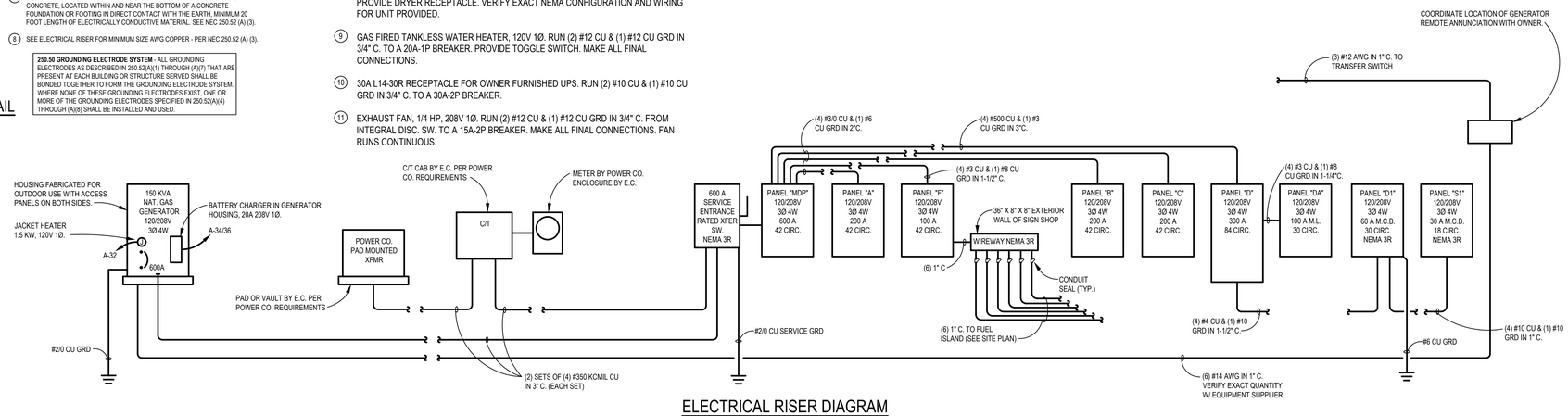
1. ALL GROUNDING AND BONDING MUST COMPLY WITH NEC ARTICLE 250 AND/ OR LOCAL ORDINANCES.
2. USE NEC TABLE 250-66 TO SIZE BONDING CONDUCTORS/JUMPERS. BONDING JUMPERS MUST BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 250-68.
3A. BOND GROUND ROD, METAL WATER PIPE, BUILDING STEEL OR METAL (WHERE EFFECTIVELY GROUNDED) AND CONCRETE-ENCASED ELECTRODE (SEE CODED NOTE 7). CONNECTION TO METAL WATER PIPE SHALL BE MADE WITHIN 5 FEET OF POINT OF ENTRANCE OF PIPE PER NEC 250.52 (A) (1).
3B. ALTERNATE BONDING SCHEME: BOND GROUND ROD, BUILDING STEEL OR METAL (WHERE EFFECTIVELY GROUNDED) AND CONCRETE-ENCASED ELECTRODE (SEE CODED NOTE 7) TO METAL WATER PIPE. CONNECTIONS TO METAL WATER PIPE SHALL BE MADE WITHIN 5 FEET OF POINT OF ENTRANCE OF PIPE PER NEC 250.52 (A) (1).
4. LOCATE GROUND ROD OUTSIDE BUILDING WALL NEAR SERVICE ENTRANCE. IF MEASURED RESISTANCE BETWEEN GROUND ROD AND EARTH IS 25 OHMS OR LESS, A SINGLE GROUND ROD IS REQUIRED. IF MEASURED RESISTANCE IS GREATER THAN 25 OHMS, INSTALL SUPPLEMENTAL ELECTRODE, NOT LESS THAN 6'-0" APART FROM ORIGINAL GROUND ROD, PER NEC 250.53 (A) (2) & (3).
5. PROTECT GROUNDING AND BONDING CONDUCTORS WHERE THEY PENETRATE CONCRETE FOUNDATIONS.
6. SIZE CONDUCTOR PER NEC TABLE 250.66 AND NEC ARTICLE 250.66.
7. CONCRETE-ENCASED ELECTRODE ENCASED WITHIN AT LEAST 2 INCHES OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING IN DIRECT CONTACT WITH THE EARTH, MINIMUM 20 FOOT LENGTH OF ELECTRICALLY CONDUCTIVE MATERIAL. SEE NEC 250.52 (A) (3).
8. SEE ELECTRICAL RISER FOR MINIMUM SIZE AWG COPPER - PER NEC 250.52 (A) (3).

250.50 GROUNDING ELECTRODE SYSTEM - ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(8) SHALL BE INSTALLED AND USED.

ELECTRICAL CODED NOTES

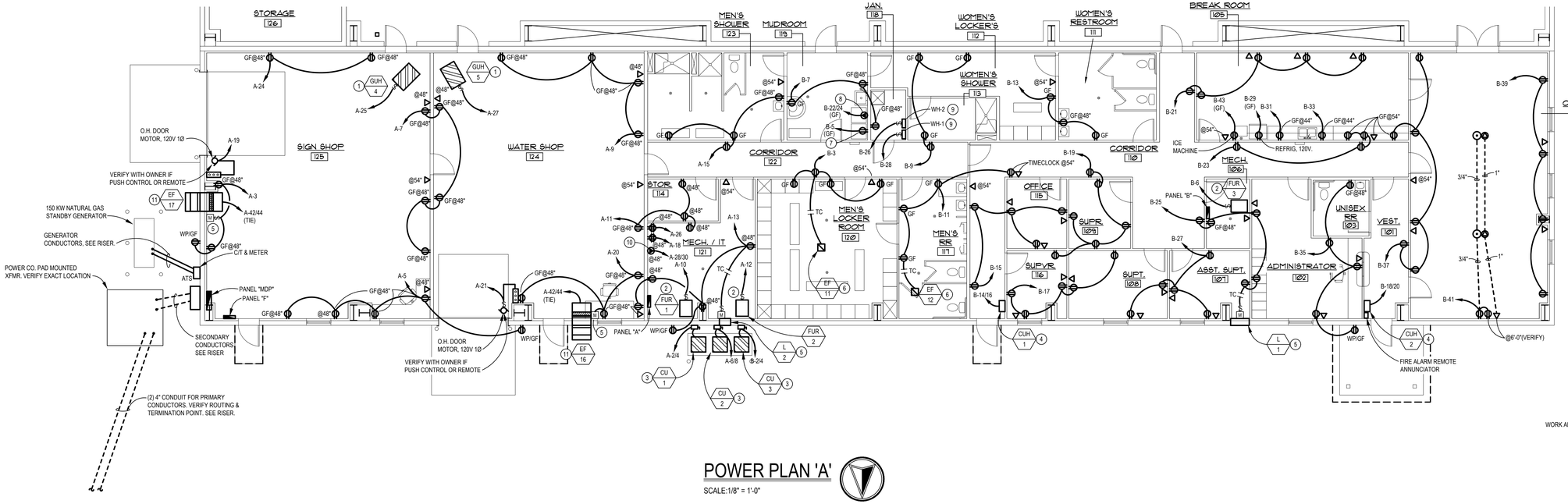
1. GAS UNIT HEATER, 7.1 F.L.A., 120V 1Ø. RUN (3) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM TOGGLE SWITCH (BY E.C.) TO A 15A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.
2. GAS FURNACE, 1.0 HP, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM TOGGLE SWITCH (BY E.C.) TO A 20A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.
3. CONDENSING UNIT, 208V 1Ø. RUN (2) #8 CU & (1) #10 CU GRD IN 3/4" C. FROM A 60A-2P WP. DISC. SW. (BY E.C.) TO A 50A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
4. CABINET UNIT HEATER, 2.0 KW, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. TO A 15A-1P BREAKER. MAKE ALL FINAL CONNECTIONS.
5. MOTORIZED LOUVER, FRAC. HP, 120V. WIRE THROUGH TIME CLOCK
6. EF-11, FRAC. HP. 120V 1Ø. WIRE THROUGH TIMECLOCK (BY E.C.) MAKE ALL FINAL CONNECTIONS.
7. WASHER, 120V 1Ø.
8. DRYER, 208V, 30 AMP. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. TO A 30A-2P BREAKER. PROVIDE DRYER RECEPTACLE. VERIFY EXACT NEMA CONFIGURATION AND WIRING FOR UNIT PROVIDED.
9. GAS FIRED TANKLESS WATER HEATER, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER. PROVIDE TOGGLE SWITCH. MAKE ALL FINAL CONNECTIONS.
10. 30A L14-30R RECEPTACLE FOR OWNER FURNISHED UPS. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. TO A 30A-2P BREAKER.
11. EXHAUST FAN, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SW. TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. FAN RUNS CONTINUOUS.

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.



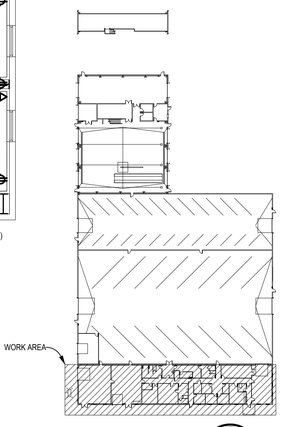
ELECTRICAL RISER DIAGRAM

N.T.S.



POWER PLAN 'A'

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



KEY PLAN

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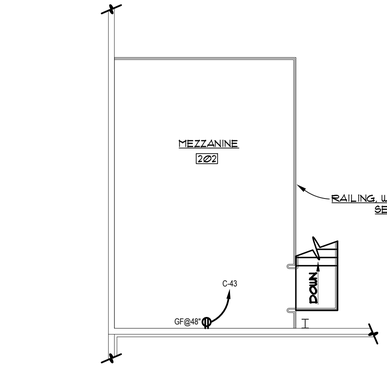
VANDALIA, OHIO 45377
POWER PLAN 'A'

PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	05-18-2026
CHECKED BY:	VWE

E2.1

100 OF 112



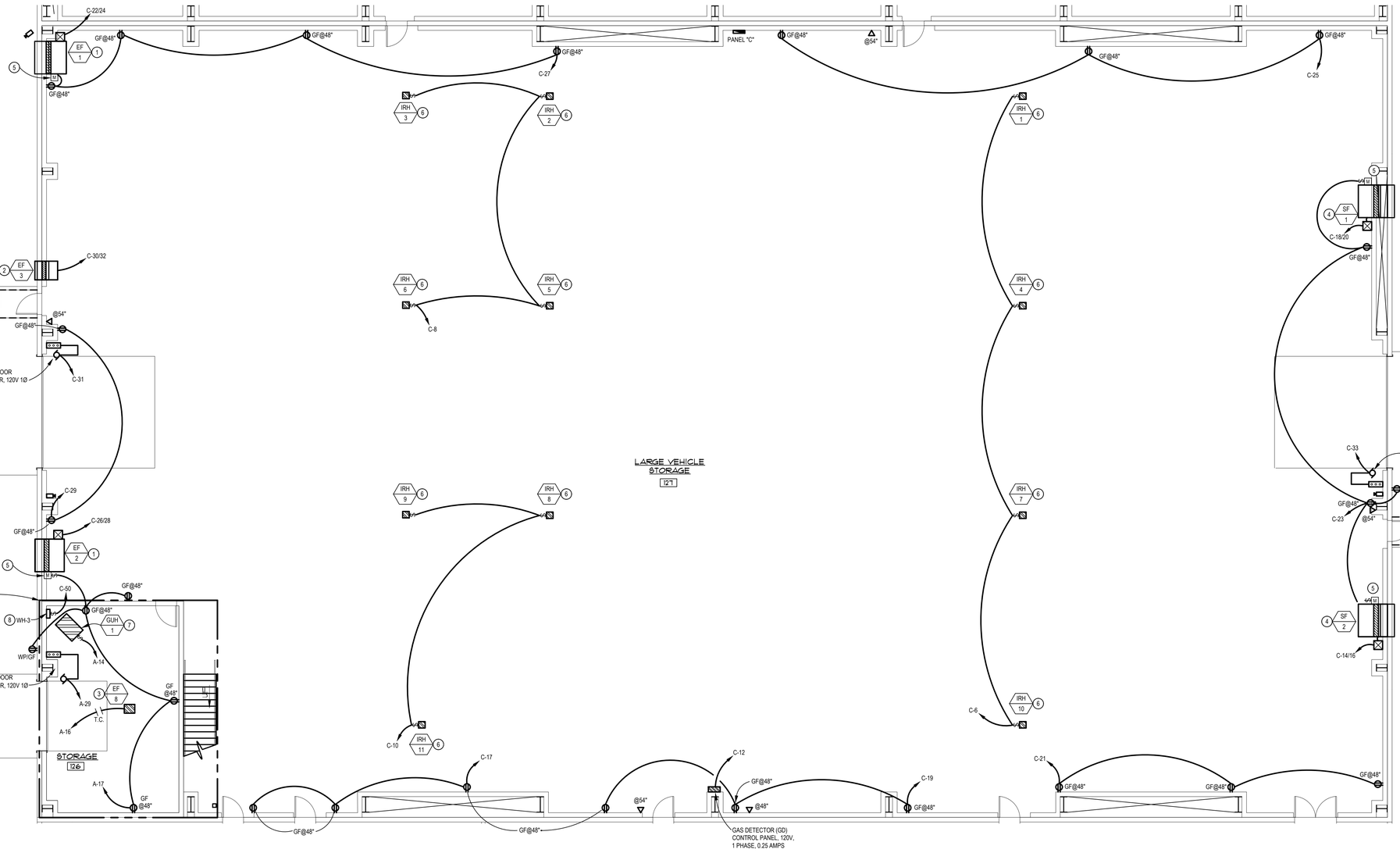
MEZZANINE POWER PLAN 'B'

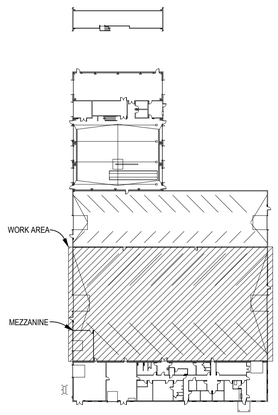
SCALE:1/8" = 1'-0"

ELECTRICAL CODED NOTES

1. EF-1 & EF-2, 3.0 HP, 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 25A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
2. EF-3, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD FROM INTEGRAL DISC. TO A 15A-2P BREAKER. FAN RUNS CONTINUOUS
3. EF-8, 348W, 120V 1Ø. INTEGRAL DISC. SW. WIRE THROUGH TIME CLOCK (BY E.C.). MAKE ALL FINAL CONNECTIONS.
4. SF-1 & SF-2, 3.0 HP. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 25A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
5. MOTORIZED DAMPER, FRAC. HP, 120V 1Ø. PROVIDE TOGGLE SWITCH W/ AUX CONTACT CIRCUIT AS SHOWN.
6. GAS INFRARED HEATER, 1.3A 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
7. GAS UNIT HEATER, 3.7 F.L.A., 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
8. GAS FIRED TANKLESS WATER HEATER, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER. PROVIDE TOGGLE SWITCH. MAKE ALL FINAL CONNECTIONS.

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.





KEY PLAN

N.T.S.

POWER PLAN 'B'

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

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POWER PLAN 'B'

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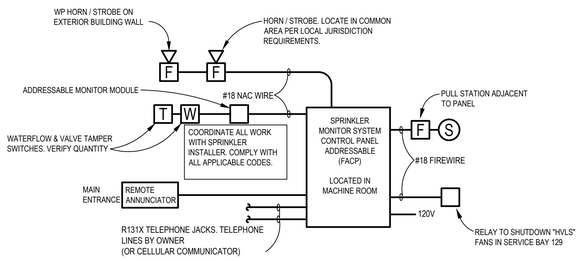
101 OF 112



SPRINKLER MONIITOR SYSTEM SCHEMATIC DIAGRAM

N.T.S.

ALARM SYSTEM

1. OPERATION
   A. ACTIVATION OF ANY COMMON AREA, SMOKE DETECTOR SHALL SOUND ALL HORNS, FLASH ALL STROBES, LIGHT ASSOCIATED ZONE LIGHT AND COMMON ALARM LIGHT AT THE FIRE ALARM CONTROL PANEL, AND NOTIFY THE FIRE DEPARTMENT PER LOCAL REQUIREMENTS.

   B. ANY ALARM CONDITION CAN BE SILENCED BY ACCESSING THE CONTROL PANEL OR ANNUNCIATOR WITH THE APPROPRIATE KEY AND PRESSING THE ALARM SILENCE BUTTON. ALL ASSOCIATED ALARM CONDITIONS LATCH ON.

   C. UPON CORRECTING THE ACTIVATED DEVICE, THE CONTROL PANEL CAN BE RESET VIA THE RESET SWITCH.

   D. BATTERY BACKUP SHALL BE PROVIDED TO COMPLY WITH NFPA.

2. EQUIPMENT
   A. SYSTEM SHALL BE INSTALLED TO COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES.

   B. CONTROL PANEL TO PROVIDE FOR FULLY ANNUNCIATED, FIELD PROGRAMMABLE WITH WALK TEST, ALARM VERIFICATION AND BATTERY BACKUP. PANEL TO BE SURFACE MOUNTED, ADDRESSABLE.

   C. AUDIO/VISUAL (STROBE/HORN) SIGNALS AND SHALL BE MOUNTED AT 80" A.F.F. OR 6" DOWN FROM CEILING (WHICHEVER IS LOWER) ON A DEEP 4" SQUARE BOX.

3. WIRING
   A. WIRING SHALL BE AS RECOMMENDED BY THE MANUFACTURER TO COMPLY WITH ALL STATE AND LOCAL CODES, NFPA, NEC, ETC.

4. PERMIT
   A. THE CONTRACTOR SHALL PROVIDE WIRING DRAWINGS, PRODUCT DATA, BATTERY CALCULATIONS, AND ALL SUBMITTALS REQUIRED TO RECEIVE A FIRE ALARM PERMIT.

NATURAL GAS STANDBY GENERATOR SET SPECIFICATIONS

PROPANE FUELED STANDBY GENERATOR SET RATED 120/208, THREE PHASE, FOUR WIRE, 1800 RPM, 150 KW, KOHLER MODEL KG150 OR INDUSTRY EQUIVALENT. FUEL PRESSURE AT THE INLET MUST BE MAINTAINED AT 7 INCHES OF H2O. THE GENERATOR SETS ALTERNATOR WILL BE A 130°C TEMP RISE, INSULATION CLASS H. PROVIDE THE FOLLOWING ACCESSORIES: A STEEL WEATHER ENCLOSURE A 6 AMP BATTERY CHARGER, SEALED LEAD ACID BATTERIES WITH RACK AND CABLES, A BLOCK HEATER (120V SINGLE PHASE), AND A CONTROLLER WITH TIMERS, SENSORS, AND INDICATORS. ADDITIONALLY, THE GENERATOR SHALL BE EQUIPPED WITH A REMOTE ANNUNCIATOR AND A REMOTE EMERGENCY STOP SWITCH.
THE GENERATOR SHALL BE EQUIPPED WITH AN 100% RATED 600 AMP THERMAL MAGNETIC TRIP TYPE BREAKER. THE GENERATOR CONTROL LOGIC SHALL HAVE THE CAPABILITY TO MONITOR THE AC OUTPUT VOLTAGE AND CURRENT FOR EACH PHASE.

ENSURE THAT THE GENERATOR SET MEETS THE FOLLOWING CODES AND STANDARDS

- NFPA 37
- NFPA 70
- NFPA 99
- NFPA 110
- UL2200
- COMPLY WITH EPA REQUIREMENTS AND APPLICABLE STATE AND LOCAL GOVERNMENT REQUIREMENTS
- START CIRCUIT MONITORING

INCLUDE TWO-YEAR PARTS AND LABOR WARRANTY; COVERAGE INCLUDES NOT LESS THAN TWO YEARS

PERFORM TESTS AND INSPECTIONS WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE.

INCLUDE A 12-MONTH BIANNUAL PREVENTATIVE MAINTENANCE AGREEMENT FOR THE GENERATOR SET

AUTOMATIC SWITCH SPECIFICATIONS

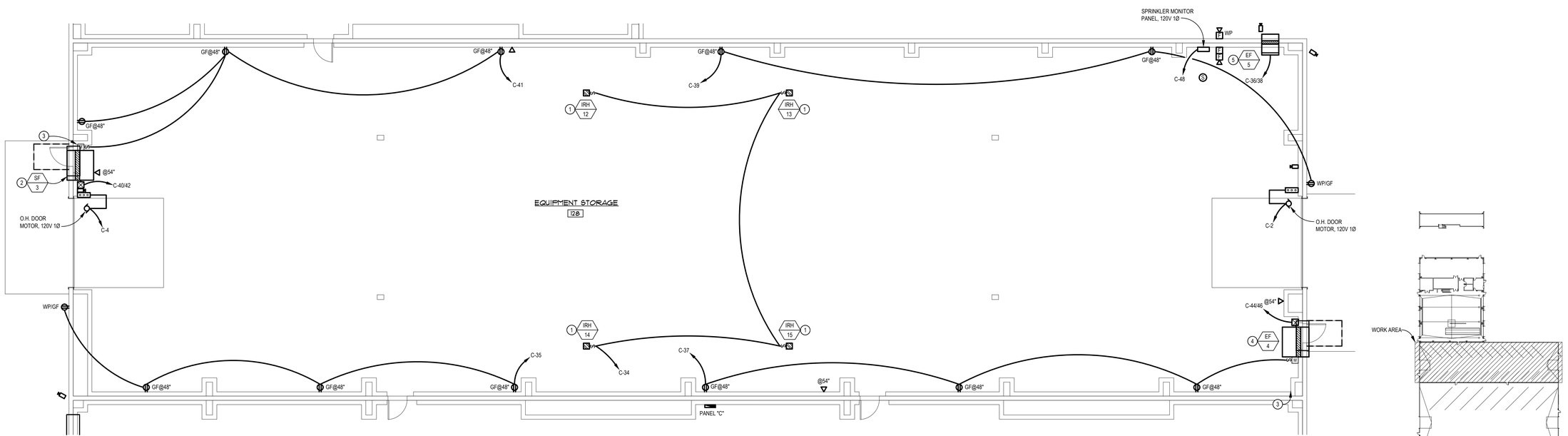
ATS - OPEN TRANSITION SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH RATED FOR ANY BREAKER (SPECIFIC OR SERIES-RATED TRANSFER SWITCHES ARE NOT ACCEPTABLE). THE ATS SHALL BE RATED FOR 600 AMP, 3 POLE/3 WIRE SOLID NEUTRAL AT 60 HERTZ MOUNTED IN A NEMA 3R UNIT TO BE KOHLER MODEL KCS SERIES OPEN TRANSITION AUTOMATIC TRANSFER SWITCH OR INDUSTRY STANDARD.

Basis of design contact:
Buckeye Power Sales
220-246-8657
Brycen Burkhalter
bburkhalter@bpsco.com

ELECTRICAL CODED NOTES

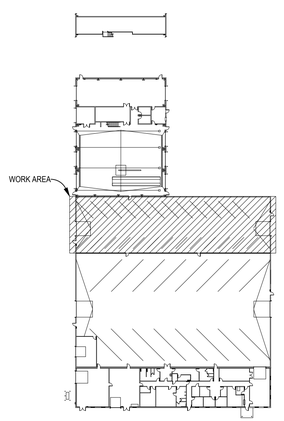
1. GAS INFRARED HEATER, 1.3A 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
2. SF-3, 3.0 HP. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 25A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
3. MOTORIZED DAMPER, FRAC. HP, 120V 1Ø. PROVIDE TOGGLE SWITCH W/ ALL CONTACT. CIRCUIT AS SHOWN.
4. EF-4, 3.0 HP,. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD IN 3/4" C. FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 25A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
5. EF-5, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SW. TO A 15A-2P BREAKER. FAN RUNS CONTINUOUS.

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.



POWER PLAN 'C'

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



KEY PLAN

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POWER PLAN 'C'

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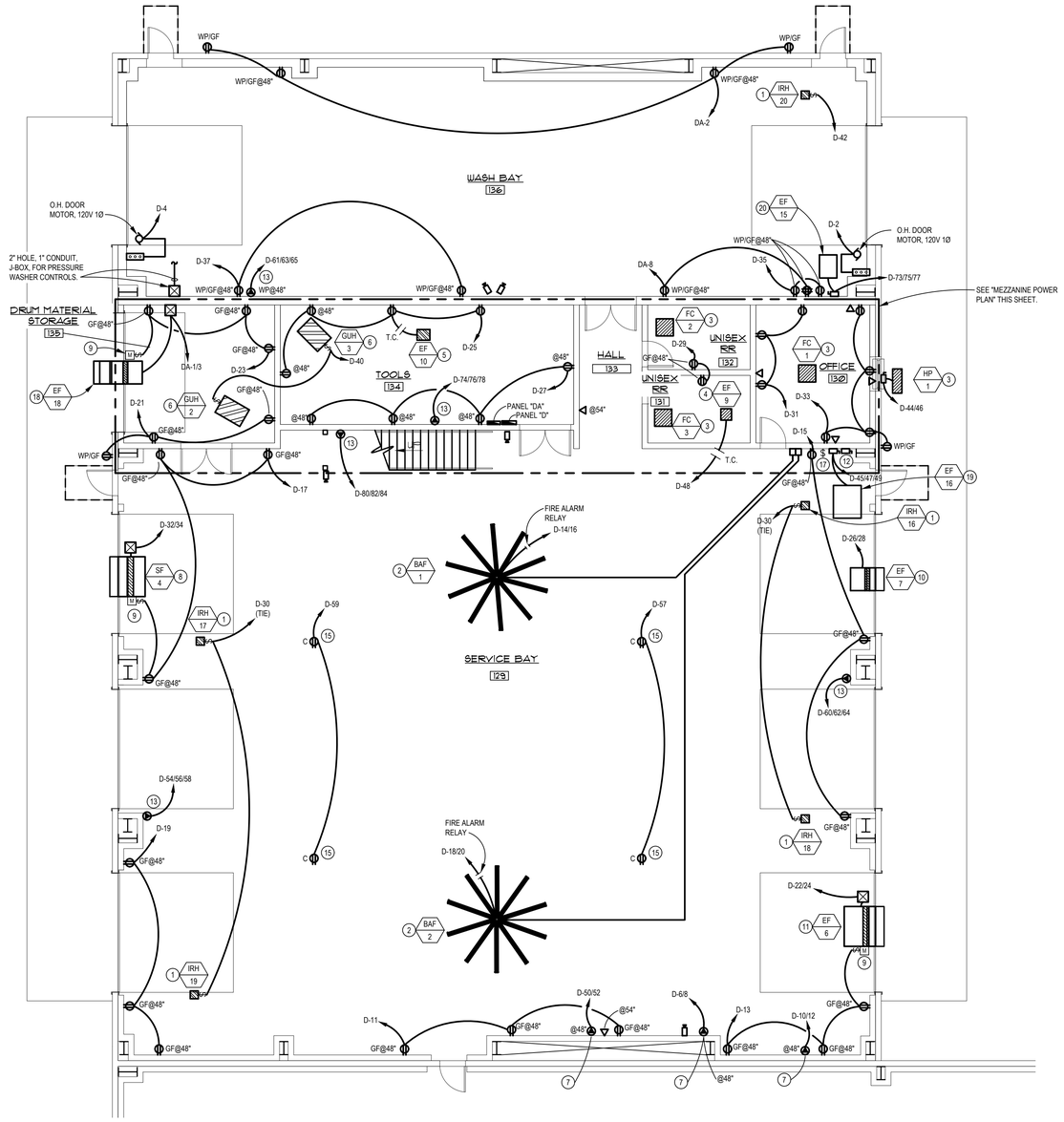
E2.3
102 OF 112



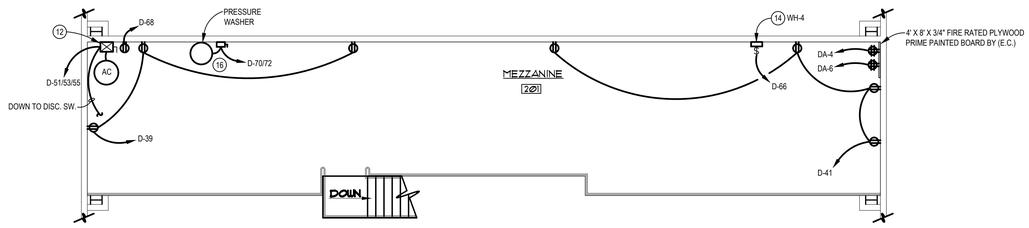
POWER PLAN 'D'

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

ELECTRICAL CODED NOTES

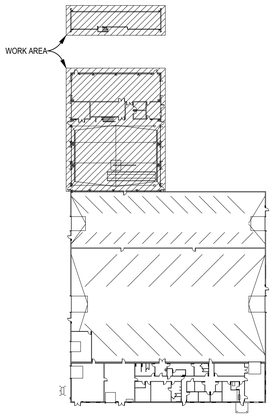
1. GAS INFRARED HEATER, 1.3A, 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
2. HVLS FAN, 208 1Ø, 10.0 AMPS. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM UNIT FURNISHED DISC. SW. THROUGH UNIT FURNISHED, VARIABLE SPEED, WALL CONTROLLER TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. WIRE THROUGH FIRE ALARM RELAY SO FAN SHUTS DOWN UPON SPRINKLER MONITOR SYSTEM ACTIVATION.
3. HP-1, 208V 1Ø. RUN (2) #10 CU & (1) # 10 CU GRD IN 3/4" C FROM A 30A-2P WP. DISC. SW. AT UNIT TO A 20A-2P BREAKER. RUN (2) #12 CU & (1) #12 CU GRD TO (3) INDOOR FAN COIL UNITS. MAKE ALL FINAL CONNECTIONS.
4. EF-9, 348W, 120V 1Ø. INTEGRAL DISC. WIRE THROUGH TIME CLOCK (BY E.C.). MAKE ALL FINAL CONNECTIONS.
5. EF-10, 143W, 120V 1Ø. INTEGRAL DISC. WIRE THROUGH TIME CLOCK (BY E.C.). MAKE ALL FINAL CONNECTIONS.
6. GAS UNIT HEATER, 3.7 F.L.A., 120V 1Ø. PROVIDE TOGGLE SWITCH. CIRCUIT AS SHOWN.
7. TIRE CHANGER, NEMA L6-20R RECEPTACLE. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-2P BREAKER.
8. SF-4, 1-1/2 HP. 208V 1Ø. RUN (2) #10 CU & (1) #10 CU GRD FROM A STARTER W/ (1) M.O. & (1) M.C CONTACT (BY E.C.) TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
9. MOTORIZED DAMPER, FRAC. HP, 120V 1Ø. PROVIDE TOGGLE SWITCH W/ AUX CONTACT. CIRCUIT AS SHOWN.
10. EF-7, 1/4 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SW. TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS. (FAN RUNS CONTINUOUS)
11. EF-6, 1-1/2 HP, 208V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM STARTER W/ (1) M.O. & (1) M.C. CONTACTOR (BY E.C.) TO A 20A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
12. AIR COMPRESSOR, 208V 3Ø. RUN (3) #8 CU & (1) #10 CU GRD IN 3/4" C. FROM A FUSED 60A-3P STARTER / DISC. SW. (BY E.C.) TO A 40A-3P BREAKER. PROVIDE REMOTE DISC. SW. ON WALL OF SERVICE BAY BELOW AS SHOWN. MAKE ALL FINAL CONNECTIONS.
13. 208V 3Ø, 60 AMP RECEPTACLE FOR WELDER, VERIFY NEMA CONFIGURATION WITH OWNER. RUN (3) #4 CU & (1) # 10 CU GRD IN 1" C. TO A 60A-3P BREAKER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
14. GAS FIRED TANKLESS WATER HEATER, 120V 1Ø. RUN (2) #12 CU & (1) #12 CU GRD IN 3/4" C. TO A 20A-1P BREAKER. PROVIDE TOGGLE SWITCH. MAKE ALL FINAL CONNECTIONS.
15. CEILING MOUNTED RETRACTING CORD REEL WITH DUPLEX RECEPTACLE. CONNECT TO 20A-1P GFCI BREAKER. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
16. PRESSURE WASHER, 44.0 F.L.A., 10 HP, 208V 1Ø. RUN (2) #6 CU & (1) #10 CU GRD IN 3/4" C. FROM A 60A-2P DISC. SW. AT UNIT (BY E.C.) TO A 60A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
17. E.C. TO PROVIDE SWITCH TO CONTROL COMPRESSED AIR SOLENOID. (SOLENOID BY P.C.) LOCATED NEAR COMPRESSOR ON MEZZANINE.
18. EF-18, 1/4 HP, 208V 1Ø. RUN (3) #12 CU & (1) #12 CU GRD IN 3/4" C. FROM INTEGRAL DISC. SWITCH THROUGH STARTER W/ PILOT LIGHT & ON/OFF SWITCH (BY E.C.) TO A 15A-2P BREAKER. MAKE ALL FINAL CONNECTIONS.
19. EF-14, (TAILPIPE EXHAUST SYSTEM FAN) 15 HP, 208V 3Ø. RUN (3) #4 CU & (1) #10 CU GRD IN 1" C. FROM INTEGRAL VFD THROUGH A 60A-3P DISC. SW. TO A 60A-3P BREAKER. MAKE ALL FINAL CONNECTIONS.
20. EF-15, (TAILPIPE EXHAUST SYSTEM FAN) 5 HP, 208V 1Ø. RUN (3) #10 CU & (1) #10 CU GRD IN 3/4" C. FROM INTEGRAL VFD THROUGH A 30A-3P WP. DISC. SW. TO A 25A-3P BREAKER MAKE ALL FINAL CONNECTIONS.

ALL RECEPTACLES IN ROOMS 124, 125, 126, 127, 128, 129, 136 IN ADDITION TO OTHERS AS NOTED REQUIRE GFI.



MEZZANINE POWER PLAN

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



KEY PLAN

N.T.S.

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

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WDC GROUP

REVISIONS:

ohio vandalia small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

POWER PLAN 'D'

PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	05-18-2026
CHECKED BY:	VWE

E2.4

103 OF 112

Panel ID: MDP | Voltage: 208 / 120 | Panel Type: I-LINE OR EQUAL
Location: SIGN SHOP | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 65,000
Main Type: MAIN LUGS | Bus Amperage: 600 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	3/0	PANEL "A"	200/3		17.978	17.978	A	0.000	0.000			BUSSED 3-POLE SPACE		2
3	3/0	----	--		12.372	12.372	B	0.000	0.000			----		4
5	3/0	----	--		12.020	12.020	C	0.000	0.000			----		6
7	3/0	PANEL "B"	200/3		12.647	12.647	A	0.000	0.000			BUSSED 3-POLE SPACE		8
9	3/0	----	--		13.288	13.288	B	0.000	0.000			----		10
11	3/0	----	--		11.295	11.295	C	0.000	0.000			----		12
13	3/0	PANEL "C"	200/3		13.976	13.976	A	0.000	0.000			BUSSED 3-POLE SPACE		14
15	3/0	----	--		15.329	15.329	B	0.000	0.000			----		16
17	3/0	----	--		10.224	10.224	C	0.000	0.000			----		18
19	500	PANEL "D"	350/3		41.741	41.741	A	0.000	0.000			BUSSED 3-POLE SPACE		20
21	500	----	--		42.591	42.591	B	0.000	0.000			----		22
23	500	----	--		34.177	34.177	C	0.000	0.000			----		24
25	3	PANEL "F"	100/3		0.000	0.000	A	0.000	0.000			BUSSED 3-POLE SPACE		26
27	3	----	--		0.000	0.000	B	0.000	0.000			----		28
29	3	----	--		0.000	0.000	C	0.000	0.000			----		30

Actual Load Panel Summary: Phase A: 86.3 KVA | Phase B: 83.6 KVA | Phase C: 67.7 KVA | Total: 237.6 KVA
N.E.C. Load Panel Summary: Phase A: 86.3 KVA | Phase B: 83.6 KVA | Phase C: 67.7 KVA | Total: 237.6 KVA
719.5 AMPS | 696.5 AMPS | 564.3 AMPS | 659.6 AMPS
Breaker Options (If Used): E - EXISTING BREAKER TO REMAIN

Panel ID: "A" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: MECH / IT 121 | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 42,000
Main Type: MAIN LUGS | Bus Amperage: 225 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.746	0.746	A	3.000	3.000		50/2	CU-1	6	2
3	12	RECEPTACLES	20/1		0.720	0.720	B	3.000	3.000		--	----	6	4
5	12	RECEPTACLES	20/1		0.720	0.720	C	3.000	3.000		50/2	CU-2	6	6
7	12	RECEPTACLES	20/1		0.900	0.900	A	3.000	3.000		--	----	6	8
9	12	RECEPTACLES	20/1		0.720	0.720	B	1.440	1.440		20/1	FUR-1	12	10
11	12	RECEPTACLES	20/1		0.720	0.720	C	1.440	1.440		20/1	FUR-2	12	12
13	12	RECEPTACLES	20/1		0.720	0.720	A	0.450	0.450		15/1	GUH-1	12	14
15	12	RECEPTACLES	20/1		0.720	0.720	B	0.350	0.350		20/1	EF-8	12	16
17	12	RECEPTACLES	20/1		0.900	0.900	C	0.360	0.360		20/1	IT RECEPT.	12	18
19	12	O.H. DOOR	20/1		1.500	1.500	A	0.540	0.540		20/1	RECEPTACLES	12	20
21	12	O.H. DOOR	20/1		1.500	1.500	B	0.000	0.000		20/1	SPARE	12	22
23	12	LIGHTING	20/1		0.580	0.580	C	0.540	0.540		20/1	RECEPTACLES	12	24
25	12	GUH-4	15/1		0.850	0.850	A	0.360	0.360		20/1	IT RECEPT.	12	26
27	12	GUH-5	15/1		0.850	0.850	B	0.360	0.360		30/2	UPS RECEPTACLE	10	28
29	12	O.H. DOOR	20/1		0.000	0.000	C	0.360	0.360		--	----	10	30
31	10	SITE POLE LIGHTS	20/2		1.900	1.900	A	1.500	1.500		20/1	GENERATOR HEATER	12	32
33	10	----	--		0.400	0.400	B	1.000	1.000		20/2	GENERATOR CHARGER	12	34
35	10	SITE GATE POWER	20/1		1.200	1.200	C	1.000	1.000		--	----	12	36
37	10	SITE GATE POWER	20/1		1.200	1.200	A	0.532	0.532		20/2	SITE POLE LIGHTS	10	38
39		SPARE	20/1		0.000	0.000	B	0.532	0.532		--	----	10	40
41	10	MONUMENT SIGN	20/1		1.200	1.200	C	0.000	0.000		15/2	EF-16 & EF-17	12	42
43	12	HUB POWER CIRCUIT	20/1		0.180	0.180	A	0.600	0.600		--	SPACE	12	44
45	12	HUB POWER CIRCUIT	20/1		0.180	0.180	B	0.600	0.600			SPACE		46
47		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		48
49		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		50
51		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		52
53		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		54
55		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		56
57		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		58
59		SPACE			0.000	0.000	C	0.000	0.000			SPACE		60

Actual Load Panel Summary: Phase A: 18.0 KVA | Phase B: 12.4 KVA | Phase C: 12.0 KVA | Total: 42.4 KVA
N.E.C. Load Panel Summary: Phase A: 18.0 KVA | Phase B: 12.4 KVA | Phase C: 12.0 KVA | Total: 42.4 KVA
149.8 AMPS | 103.1 AMPS | 100.2 AMPS | 117.6 AMPS
Breaker Options (If Used):

Panel ID: "B" | Voltage: 208 / 120 | Panel Type: NF OR EQUAL
Location: MECH. 106 | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 225 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.989	0.989	A	3.000	3.000		50/2	CU-3	6	2
3	12	RECEPTACLES / EF	20/1		0.720	0.720	B	3.000	3.000		--	----	6	4
5	12	WASHER	20/1	GF	1.000	1.000	C	1.440	1.440		20/1	FUR-3	12	6
7	12	RECEPTACLES	20/1		0.540	0.540	A	0.918	0.918		20/1	EXTERIOR LIGHTING	12	8
9	12	RECEPTACLES	20/1		0.720	0.720	B	0.748	0.748		20/1	LIGHTING	12	10
11	12	RECEPTACLES / EF	20/1		0.540	0.540	C	0.000	0.000		20/1	SPARE	12	12
13	12	RECEPTACLES	20/1		0.540	0.540	A	1.000	1.000		15/1	CUH-1	12	14
15	12	RECEPTACLES	20/1		0.900	0.900	B	1.000	1.000		--	----	12	16
17	12	RECEPTACLES	20/1		0.900	0.900	C	1.000	1.000		15/1	CUH-2	12	18
19	12	RECEPTACLES	20/1		0.900	0.900	A	1.000	1.000		--	----	12	20
21	12	RECEPTACLES	20/1		0.900	0.900	B	2.500	2.500	GF	30/2	DRYER	10	22
23	12	RECEPTACLES	20/1		0.720	0.720	C	2.500	2.500		--	----	10	24
25	12	RECEPTACLES	20/1		0.900	0.900	A	0.800	0.800		20/1	WATER HEATER W-1	12	26
27	12	RECEPTACLES	20/1		0.900	0.900	B	0.800	0.800		20/1	WATER HEATER W-2	12	28
29	12	REFRIGERATOR	20/1	GF	0.500	0.500	C	0.000	0.000			SPACE		30
31	12	RECEPTACLES	20/1		0.180	0.180	A	0.000	0.000			SPACE		32
33	12	RECEPTACLES	20/1		0.180	0.180	B	0.000	0.000			SPACE		34
35	12	RECEPTACLES	20/1		0.900	0.900	C	0.000	0.000			SPACE		36
37	12	RECEPTACLES	20/1		1.080	1.080	A	0.000	0.000			SPACE		38
39	12	RECEPTACLES	20/1		0.720	0.720	B	0.000	0.000			SPACE		40
41	12	RECEPTACLES	20/1		0.720	0.720	C	0.000	0.000			SPACE		42
43	12	ICE MACHINE	20/1	GF	0.800	0.800	A	0.000	0.000			SPACE		44
45	12	NIGHT LIGHTS	20/1		0.200	0.200	B	0.000	0.000			SPACE		46
47	12	EXTERIOR LIGHTING	20/1		1.075	1.075	C	0.000	0.000			SPACE		48
49		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		50
51		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		52
53		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		54
55		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		56
57		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		58
59		SPACE			0.000	0.000	C	0.000	0.000			SPACE		60

Actual Load Panel Summary: Phase A: 12.6 KVA | Phase B: 13.3 KVA | Phase C: 11.3 KVA | Total: 37.2 KVA
N.E.C. Load Panel Summary: Phase A: 12.6 KVA | Phase B: 13.3 KVA | Phase C: 11.3 KVA | Total: 37.2 KVA
105.4 AMPS | 110.7 AMPS | 94.1 AMPS | 103.3 AMPS
Breaker Options (If Used): GF - GROUND FAULT BREAKER

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ELECTRICAL LOAD SUMMARY (MDP)

DESCRIPTION	CONNECTED KW	POWER FACTOR	CONNECTED DEMAND	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR	N.E.C. FEEDER DEMAND KVA
LIGHTING	26.867	1.0	26.867	26.867	1.25	33.584
RECEPTACLES	83.790	1.0	83.790	83.790	1.0 < 10 KW 0.5x RMDR	46.895
MOTOR	73.700	1.0	73.700	73.700	1.0 + 125% OF LARGEST MOTOR	73.700
FIXED ELEC. SPACE HEATING *	17.804	1.0	17.804	17.804	1.00	17.804
AIR CONDITIONING SYSTEM *	18.000	1.0	18.000	18.000	1.00	18.000
ELECTRIC WATER HEATER	3.200	1.0	3.200	3.200	1.00	3.200
MISCELLANEOUS	3.500	1.0	3.500	3.500	1.00	3.500
TOTALS:	226.861		226.861	226.861		196.683

NOTES:
* USE GREATER OF THE CATEGORIES
LF - LINEAR FEET

N.E.C. DEMAND KVA x 1000 / SYSTEM VOLTAGE x 1.73 = MIN FEEDER AMPS

ELECTRICAL SERVICE VOLTAGE = 208 V - 3 PHASE
196.683 KVA x 1000 / 208V x 1.73 = 545.937
MINIMUM 600 AMPS 208/120V 3 PHASE, 4 WIRE FEEDER

Panel ID: "C" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: VEHICLE STORAGE | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 225 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.532	0.532	A	1.500	1.500		20/1	O.H. DOOR	12	2
3	12	LIGHTING	20/1		1.197	1.197	B	1.500	1.500		20/1	O.H. DOOR	12	4
5	12	LIGHTING	20/1		1.197	1.197	C	0.650	0.650		20/1	IRH-1,4,7,10	12	6
7	12	LIGHTING	20/1		1.197	1.197	A	0.650	0.650		20/1	IRH-2,3,5,6	12	8
9	12	LIGHTING	20/1		0.665	0.665	B	0.650	0.650		20/1	IRH-8,9,11	12	10
11	12	LIGHTING	20/1		1.197	1.197	C	0.200	0.200		20/1	GAS DET. C.P.	12	12
13	12	LIGHTING	20/1		1.197	1.197	A	1.100	1.100		25/2	SF-2	10	14
15	12	LIGHTING	20/1		1.197	1.197	B	1.100	1.100		--	----	10	16
17	12	RECEPTACLES	20/1		0.540	0.540	C	1.100	1.100		25/2	SF-1	10	18
19	12	RECEPTACLES	20/1		0.540	0.540	A	1.100	1.100		--	----	10	20
21	12	RECEPTACLES	20/1		0.540	0.540	B	1.100	1.100		25/2	EF-1	10	22
23	12	RECEPTACLES	20/1		0.540	0.540	C	1.100	1.100		--	----	10	24
25	12	RECEPTACLES	20/1		0.540	0.540	A	1.100	1.100		25/2	EF-2	10	26
27	12	RECEPTACLES	20/1		0.720	0.720	B	1.100	1.100		--	----	10	28
29	12	RECEPTACLES	20/1		0.360	0.360	C	0.200	0.200		15/2	EF-3	12	30
31	12	O.H. DOOR	20/1		1.500	1.500	A	0.200	0.200		--	----	12	32
33	12	O.H. DOOR	20/1		1.500	1.500	B	0.650	0.650		20/1	IRH-12,13,14,15	12	34
35	12	RECEPTACLES	20/1		0.720	0.720	C	0.200	0.200		15/2	EF-5	12	36
37	12	RECEPTACLES	20/1		0.540	0.540	A	0.200	0.200		--	----	12	38
39	12	RECEPTACLES	20/1		0.540	0.540	B	1.100	1.100		20/2	SF-3	10	40
41	12	RECEPTACLES	20/1		0.720	0.720	C	1.100	1.100		--	----	10	42
43	12	MEZZ. RECEPTS.	20/1		0.180	0.180	A	1.100	1.100		25/2	EF-4	10	44
45	12	NIGHT LIGHTS	20/1		0.670	0.670	B	1.100	1.100		--	----	10	46
47		SPARE	20/1		0.000	0.000	C	0.400	0.400		20/1	SPRINKLER MONITOR PNL	12	48
49		SPARE	20/1		0.000	0.000	A	0.800	0.800		20/1	WATER HEATER W-3	12	50
51		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		52
53		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		54
55		SPARE	20/1		0.000	0.000	A	0.000	0.000			SPACE		56
57		SPARE	20/1		0.000	0.000	B	0.000	0.000			SPACE		58
59		SPARE	20/1		0.000	0.000	C	0.000	0.000			SPACE		60
61		SPACE			0.000	0.000	A	0.000	0.000			SPACE		62
63		SPACE			0.000	0.000	B	0.000	0.000			SPACE		64
65		SPACE			0.000	0.000	C	0.000	0.000			SPACE		66
67		SPACE			0.000	0.000	A	0.000	0.000			SPACE		68
69		SPACE			0.000	0.000	B	0.000	0.000			SPACE		70
71		SPACE			0.000	0.000	C	0.000	0.000			SPACE		72
73		SPACE			0.000	0.000	A	0.000	0.000			SPACE		74
75		SPACE			0.000	0.000	B	0.000	0.000			SPACE		76
77		SPACE			0.000	0.000	C	0.000	0.000			SPACE		78
79		SPACE			0.000	0.000	A	0.000	0.000			SPACE		80
81		SPACE			0.000	0.000	B	0.000	0.000			SPACE		82
83		SPACE			0.000	0.000	C	0.000	0.000			SPACE		84

Actual Load Panel Summary: Phase A: 14.0 KVA | Phase B: 15.3 KVA | Phase C: 10.2 KVA | Total: 39.5 KVA
N.E.C. Load Panel Summary: Phase A: 14.0 KVA | Phase B: 15.3 KVA | Phase C: 10.2 KVA | Total: 39.5 KVA
116.5 AMPS | 127.7 AMPS | 85.2 AMPS | 109.7 AMPS
Breaker Options (If Used):

Panel ID: "D" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: TOOLS 134 | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 400 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	LIGHTING	20/1		0.931	0.931	A	1.500	1.500		20/1	O.H. DOOR	12	2
3	12	LIGHTING	20/1		1.064	1.064	B	1.500	1.500		20/1	O.H. DOOR	12	4
5	12	LIGHTING	20/1		0.578	0.578	C	0.360	0.360		20/2	RECEPTACLE	12	6
7	12	LIGHTING	20/1		0.233	0.233	A	0.360	0.360		--	----	12	8
9	12	LIGHTING	20/1		0.419	0.419	B	0.360	0.360		20/2	RECEPTACLE	12	10
11	12	RECEPTACLES	20/1		0.540	0.540	C	0.360	0.360		--	----	12	12
13	12	RECEPTACLES	20/1		0.540	0.540	A	1.040	1.040		15/2	HVLS-1	12	14
15	12	RECEPTACLES	20/1		0.540	0.540	B	1.040	1.040		--	----	12	16
17	12	RECEPTACLES	20/1		0.540	0.540	C	1.040	1.040		15/2	HVLS-2	12	18
19	12	RECEPTACLES	20/1		0.540	0.540	A	1.040	1.040		--	----	12	20
21	12	RECEPTACLES	20/1		0.540	0.540	B	1.150	1.150		20/2	EF-6	12	22
23	12	RECEPTACLES	20/1		0.540	0.540	C	1.150	1.150		--	----	12	24
25	12	RECEPTACLES	20/1		0.720	0.720	A	0.400	0.400		15/2	EF-7	12	26
27	12	RECEPTACLES	20/1		0.720	0.720	B	0.400	0.400		--	----	12	28
29	12	RECEPTACLES	20/1		0.360	0.360	C	0.624	0.624		20/1	IRH 16,17,18,19	12	30
31	12	RECEPTACLES	20/1		0.540	0.540	A	1.150	1.150		15/2	SF-4	12	32
33	12	RECEPTACLES	20/1		0.720	0.720	B	1.150	1.150		--	----	12	34
35	12	RECEPTACLES	20/1		0.360	0.360	C	0.000	0.000			SPACE	12	36
37	12	RECEPTACLES	20/1		0.360	0.360	A	0.000	0.000			SPACE	12	38
39	12	RECEPTACLES	20/1		0.540	0.540	B	0.900	0.900		20/1	GUH-2,3	12	40
41	12	RECEPTACLES	20/1		0.720	0.720	C	0.200	0.200		20/1	IRH-20	12	42
43	12	NIGHT LIGHTS	20/1		0.650	0.650	A	1.505	1.505		20/2	HP-1	12	44
45	4	EF-14	60/3		5.520	5.520	B	1.505	1.505		--	----	12	46
47	4	----	--		5.520	5.520	C	0.350	0.350		15/1	EF-9	12	48
49	4	----	--		5.520	5.520	A	0.360	0.360		20/2	RECEPTACLE	12	50
51	8	AIR COMPRESSOR	40/3		3.000	3.000	B	0.360	0.360		--	----	12	52
53	8	----	--		3.000	3.000	C	1.500	1.500		60/3	WELDING RECEPT.	4	54
55	8	----	--		3.000	3.000	A	1.500	1.500		--	----	4	56
57	12	CORD REEL RECEPTS.	20/1		0.360	0.360	B	1.500	1.500		--	----	4	58
59	12	CORD REEL RECEPTS.	20/1		0.360	0.360	C	1.500	1.500		60/3	WELDING RECEPT.	4	60
61	4	WELDING RECEPTS	60/3		1.500	1.500	A	1.500	1.500		--	----	4	62
63	4	----	--		1.500	1.500	B	1.500	1.500		--	----	4	64
65	4	----	--		1.500	1.500	C	0.800	0.800		20/1	WATER HEATER WH-4	12	66
67	3	PANEL "DA"	100/3		1.560	1.560	A	0.180	0.180		20/1	RECEPTACLE	12	68
69	3	----	--		0.660	0.660	B	4.575	4.575		60/2	PRESSURE WASHER	6	70
71	3	----	--		0.360	0.360	C	4.575	4.575		--	----	6	72
73	10	EF-15	25/3		2.000	2.000	A	1.500	1.500		60/3	WELDING RECEPT.	4	74
75	10	----	--		2.000	2.000	B	1.500	1.500		--	----	4	76
77	10	----	--		2.000	2.000	C	1.500	1.500		--	----	4	78
79	4	PANEL "D1"	60/3		10.112	10.112	A	1.500	1.500		60/3	WELDING RECEPT.	4	80
81	4	----	--		6.068	6.068	B	1.500	1.500		--	----	4	82
83	4	----	--		2.340	2.340	C	1.500	1.500		--	----	4	84

Actual Load Panel Summary: Phase A: 41.7 KVA | Phase B: 42.6 KVA | Phase C: 34.2 KVA | Total: 118.5 KVA
N.E.C. Load Panel Summary: Phase A: 41.7 KVA | Phase B: 42.6 KVA | Phase C: 34.2 KVA | Total: 118.5 KVA
347.8 AMPS | 354.9 AMPS | 284.8 AMPS | 328.9 AMPS
Breaker Options (If Used):

Panel ID: "F" FUEL ISLAND | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: SIGN SHOP | Phase: 3 | Encl. Type: NEMA-1
Mounting: SURFACE | Wire: 4 | AIC: 22,000
Main Type: MAIN LUGS | Bus Amperage: 100 Amps

All phases to be balanced to within 7% using actual connected loads.

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1		SPACE			0.000	0.000	A	0.000	0.000			SPACE		2
3		SPACE			0.000	0.000	B	0.000	0.000			SPACE		4
5		SPACE			0.000	0.000	C	0.000	0.000			SPACE		6
7		SPACE			0.000	0.000	A	0.000	0.000			SPACE		8
9		SPACE			0.000	0.000	B	0.000	0.000			SPACE		10
11		SPACE			0.000	0.000	C	0.000	0.000			SPACE		12
13		SPACE			0.000	0.000	A	0.000	0.000			SPACE		14
15		SPACE			0.000	0.000	B	0.000	0.000			SPACE		16
17		SPACE			0.000	0.000	C	0.000	0.000			SPACE		18
19		SPACE			0.000	0.000	A	0.000	0.000			SPACE		20
21		SPACE			0.000	0.000	B	0.000	0.000			SPACE		22
23		SPACE			0.000	0.000	C	0.000	0.000			SPACE		24
25		SPACE			0.000	0.000	A	0.000	0.000			SPACE		26
27		SPACE			0.000	0.000	B	0.000	0.000			SPACE		28
29		SPACE			0.000	0.000	C	0.000	0.000			SPACE		30

Actual Load Panel Summary: Phase A: 0.0 KVA | Phase B: 0.0 KVA | Phase C: 0.0 KVA | Total: 0.0 KVA
N.E.C. Load Panel Summary: Phase A: 0.0 KVA | Phase B: 0.0 KVA | Phase C: 0.0 KVA | Total: 0.0 KVA
0.0 AMPS | 0.0 AMPS | 0.0 AMPS | 0.0 AMPS
Breaker Options (If Used):

Panel ID: "D1" | Voltage: 208 / 120 | Panel Type: NQOD OR EQUAL
Location: COLD STORAGE | Phase: 3 | Encl. Type: NEMA-3R
Mounting: SURFACE | Wire: 4 | AIC: 10,000
Main Type: M.C.B. | Bus Amperage: 60 Amps

SECTION 16000 – ELECTRICAL

PART 1 – GENERAL CONDITIONS

A. WORKMANSHIP AND MATERIALS: ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER SO AS TO INSURE A HIGH QUALITY JOB AND TO PRESENT A NEAT AND PROFESSIONAL APPEARANCE WHEN COMPLETED. ALL MATERIALS USED SHALL BE NEW AND UL APPROVED FOR THEIR INTENDED USES WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED.

B. CODES, PERMITS AND INSPECTIONS: WORK INCLUDED IN THIS SECTION SHALL COMPLY WITH ALL APPLICABLE LAWS OF THE STATE AND COMMUNITY AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE
WHERE IT IS NOT IN CONFLICT WITH THOSE LAWS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK OUTLINED HEREIN AND ON THE DRAWINGS. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL SUBMIT A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE LOCAL ELECTRICAL INSPECTOR'S OFFICE (OR THE AUTHORITY HAVING JURISDICTION), CERTIFYING THAT THE INSTALLATION COMPLIES ALL APPLICATION REGULATIONS GOVERNING THE SAME. ONCE BIDS ARE TAKEN, CHANGES TO THE DRAWINGS AND/OR SPECIFICATIONS MADE NECESSARY BY CODE REQUIREMENTS SHALL BE PERFORMED AT NO ADDITIONAL COST.

C. DRAWINGS AND SPECIFICATIONS: THE CONTRACT DRAWINGS AND THESE SPECIFICATIONS SHALL BE CONSIDERED AS COMPLIMENTARY EACH TO THE OTHER. WHAT IS CALLED FOR BY ONE SHALL BE CONSIDERED BINDING AS IF CALLED FOR BY BOTH. WHERE CONFLICTS OCCUR, SECURE CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS; OTHERWISE, PROVIDE FOR THE MORE COSTLY QUALITY OR QUANTITY. THE DRAWINGS ARE DIAGRAMMATICAL AND DIMENSION FIGURES SHOULD BE FOLLOWED IN PREFERENCE TO SCALING; VERIFY DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND WITH FIELD CONDITIONS.

D. SITE CONDITIONS: BEFORE SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND ASCERTAIN ALL EXISTING CONDITIONS. ADJUSTMENT TO THE WORK MADE NECESSARY BY ACTUAL FIELD CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST. ROUTING OF UNDERGROUND FEEDERS AND CIRCUITS MAY BE ADJUSTED TO SUIT ACTUAL CONDITIONS ENCOUNTERED.

E. COORDINATION WITH OTHER TRADES: COORDINATE THE CONSTRUCTION SO AS TO CONFORM WITH THE PROGRESS OF THE WORK OF THE OTHER TRADES. PHASING OF THE WORK SHALL BE DONE AS SOON AS POSSIBLE WITH THE ENTIRE INSTALLATION COMPLETED AS SOON AS THE CONDITION OF THE BUILDING PERMITS.

F. PROPOSED SUBSTITUTIONS: MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED IN THE CONTRACT DOCUMENTS TO GENERALLY ESTABLISH A DESIRED TYPE, STYLE AND/OR QUALITY LEVEL. THIS IS NOT TO BE CONSTRUED AS FAVORING ONE MANUFACTURER OVER ANOTHER; SUBSTITUTIONS OF EQUAL PRODUCTS WILL BE CONSIDERED ACCORDING TO THE FOLLOWING CONDITIONS. WHERE SUBSTITUTIONS ARE SUBMITTED IN DUPLICATE AT LEAST TEN (10) DAYS PRIOR TO BID DATE. SUBMITTALS SHALL BE MAILED OR HAND DELIVERED; TELEPHONE CALLS OR FACSIMILE TRANSMISSIONS ARE NOT ACCEPTABLE. ONE COPY OF THE SUBMITTAL WILL BE KEPT ON FILE AND THE SECOND COPY RETURNED BY MAIL INDICATING ACCEPTABILITY OF THE SUBSTITUTIONS.

G. WORK INCLUDED IN OTHER SECTIONS: PORTIONS OF WORK RELATED TO THIS SECTION TO BE DONE BY OTHERS INCLUDE: FINISHED PAINTING OF CONDUITS, EQUIPMENT, ETC. (EXCEPT WOOD BACKBOARDS), FURNISHING AND SETTING IN PLACE OF ALL MOTORS, FURNISHING AND INSTALLATION OF ALL CONTROL DEVICES AND CIRCUITS (EXCEPT FOR CONTROL DEVICES IN POWER CIRCUITS WHICH ARE TO BE INCLUDED AS A PART OF THIS SECTION).

H. EQUIPMENT IDENTIFICATION: NAMEPLATES SHALL BE PROVIDED FOR VARIOUS ITEMS OF EQUIPMENT AS LISTED HEREIN. THE NAMEPLATE SHALL BE FABRICATED FROM LAMINATED PHENOLIC TO PROVIDE ENGRAVED BLACK LETTERS ON A WHITE BACKGROUND WITH CHAMFERED EDGES. NAMEPLATES SHALL BE FASTENED TO THE EQUIPMENT WITH AT LEAST TWO METAL PINS OR SCREWS. LETTER SIZES SHALL BE AS FOLLOWS:

MINIMUM 1/4–INCH LETTERS: SWITCHBOARDS, PANELBOARDS
MINIMUM 1/8–INCH LETTERS: STARTERS, SAFETY SWITCHES, CONTROL DEVICES (TIME SWITCHES, CONTACTORS, ETC.)

I. CUTTING AND PATCHING: WHERE POSSIBLE ALL WORK SHALL BE BUILT IN AS THE JOB PROGRESSES. WHERE THIS IS NOT POSSIBLE, SECURE THE ARCHITECT'S APPROVAL FOR ANY CUTTING, CHASING, ETC., THAT IS REQUIRED. ALL CUT SURFACES SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADE INVOLVED.

J. TRENCHING AND BACKFILLING: PERFORM ALL EXCAVATION NECESSARY FOR INSTALLATION OF THE WORK SHOWN; DO NOT BACKFILL UNTIL ALL WORK IS COMPLETED AND INSPECTED. BACKFILL WITHIN THE BUILDING AND UNDER PAVED AREAS SHALL MEET COMPACTION REQUIREMENTS ESTABLISHED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS; FILL MATERIAL SHALL BE PIT RUN GRAVEL OR SIMILAR GRANULAR MATERIAL. AVOID ALL EXISTING UTILITIES; ANY EXISTING UTILITIES DAMAGED SHALL BE REPAIRED AS DIRECTED BY THE ARCHITECT. RESTORE ANY DAMAGED PAVING TO MATCH EXISTING.

K. TESTING: UPON COMPLETION OF THE WORK, CONDUCT A THOROUGH TEST IN THE ARCHITECT'S PRESENCE TO SHOW THE ENTIRE SYSTEM TO BE IN PERFECT WORKING CONDITION.

PART 2 – RACEWAYS AND FITTINGS

A. RACEWAY TYPES: CONDUIT RACEWAYS SHALL BE GALVANIZED RIGID STEEL, GALVANIZED INTERMEDIATE GRADE, GALVANIZED ELECTRICAL METALLIC TUBING, RIGID ALUMINUM, GALVANIZED FLEXIBLE STEEL, LIQUID LIGHT FLEXIBLE STEEL OR PLASTIC AS REQUIRED BY CODE AND AS HEREIN SPECIFIED.

B. RACEWAY MANUFACTURERS:

B.1. RIGID STEEL CONDUIT, INTERMEDIATE GRADE CONDUIT: SHALL BE GALVANIZED WITH THREADED FITTINGS; PITTSBURG, REPUBLIC OR EQUAL.

B.2. ELECTRICAL METALLIC TUBING: SHALL BE GALVANIZED WITH COMPRESSION OR SET SCREW TYPE CONNECTORS; PITTSBURGH, REPUBLIC OR EQUAL.

B.3. RIGID ALUMINUM CONDUIT: SHALL BE HEAVY–WALL TYPE WITH THREADED FITTINGS.

B.4. FLEXIBLE STEEL: SHALL BE GALVANIZED WITH SET SCREW FITTINGS.

B.5. LIQUID–TIGHT FLEXIBLE STEEL: SHALL HAVE A GALVANIZED STEEL CORE COVERED BY A LIQUID–TIGHT PVC JACKET AND COMPRESSION TYPE LIQUID–TIGHT FITTINGS; ANACONDA.

B.6. FINAL CONNECTIONS TO LIGHT FIXTURES: FLEXIBLE STEEL CONDUIT (6'–0" MINIMUM).

B.7. FINAL CONNECTIONS TO TRANSFORMERS, MOTORS AND EQUIPMENT IN MECHANICAL ROOMS AND OUTDOORS: LIQUID–TIGHT FLEXIBLE STEEL CONDUIT.

F. INSTALLATION: CONDUIT IS TO BE INSTALLED CONCEALED EXCEPT IN EQUIPMENT ROOMS AND WHERE EXPOSED RUNS ARE SPECIFICALLY INDICATED. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL WITH OR AT RIGHT ANGLES TO WALLS, CEILINGS, STRUCTURAL MEMBERS, ETC. THE CONDUIT LAYOUT SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND MUST BE ADJUSTED FOR ACTUAL CONDITIONS. OFFSETS ARE NOT SHOWN AND MUST BE FURNISHED AS REQUIRED. KEEP CONDUIT RUNS AT LEAST 12 INCHES AWAY FROM PARALLEL RUNS OF FLUES, STEAM PIPES AND OTHER HEAT PRODUCING SOURCES. CONDUIT SIZES SHALL NOT BE SMALLER THAN SHOWN ON THE DRAWINGS AND SHALL COMPLY WITH THE NEC WHERE NO SIZE IS INDICATED; THE MINIMUM SIZE SHALL BE 1/2". ALL CONDUITS SHALL BE SECURELY SUPPORTED WITHIN 3 FEET OF EACH OUTLET BOX, JUNCTION BOX, CABINET, TERMINATION, FITTING, ETC., AND AT INTERVALS NOT EXCEEDING 8 FEET BETWEEN. CONDUIT SUPPORT SHALL BE AS REQUIRED BY NEC BASED ON THE CIRCUIT SYSTEM TYPE. FASTENING METHODS SHALL EMPLOY LEAD EXPANSION ANCHORS OR POWDER–DRIVEN FASTENERS IN CONCRETE, TOGGLE BOLTS IN HOLLOW WALLS, LEAD EXPANSION ANCHORS IN MASONRY, WOOD, SHEET METAL SCREWS IN SHEET METAL AND CLAMPS ON BAR JOISTS AND EQUIPMENT FRAMES. CONDUIT SHALL NOT BE WELDED OR TIED WITH WIRES TO PROVIDE SUPPORT. WHERE RIGID STEEL CONDUIT IS INSTALLED UNDERGROUND, THE CONDUIT AND COUPLINGS SHALL BE PROVIDED WITH A FACTORY APPLIED PVC COATING OR SHALL BE PAINTED WITH 2 COATS OF ASPHALTUM PAINT. IF PLASTIC CONDUIT IS USED FOR BELOW GROUND RUNS THE TURN UP THROUGH THE FLOOR SHALL BE MADE WITH A RIGID STEEL ELBOW. PLASTIC CONDUIT USED FOR UNDERGROUND SERVICE ENTRANCE SHALL BE ENCASED IN 2 INCHES OF CONCRETE, MINIMUM. ALL RUNS OF PLASTIC CONDUIT SHALL BE PROVIDED WITH A PROPERLY SIZED GROUND WIRE. THE OVERALL DIAMETER OF ANY CONDUIT INSTALLED IN A SLAB SHALL NOT EXCEED 1/3 THE SLAB THICKNESS. RUN THE CONDUIT IN THE CENTER OF THE SLAB AND ROUTE TO AVOID DISPLACING THE REINFORCING STEEL. CONDUIT SUPPORT MAY BE OBTAINED BY TYING TO THE REINFORCING STEEL. CONDUIT ENDS SHALL BE CUT SQUARE, REAMED SMOOTH AND FULLY INSERTED INTO FITTINGS. BENDS SHALL BE MADE WITH A PROPER HICKEY OR BENDING MACHINE. MAKE NO BENDS LESS THAN 6 TIMES THE CONDUIT DIAMETER, NOR MORE THAN 90 DEGREES. CRUSHED OR DEFORMED CONDUIT SHALL NOT BE INSTALLED; WHERE DAMAGE OCCURS AFTER INSTALLATION THE DAMAGED CONDUIT SHALL BE REPLACED. CAP CONDUIT ENDS WITH PLASTIC CAPS OR PLUGS DURING CONSTRUCTION TO KEEP OUT DEBRIS; TAPING IS NOT ACCEPTABLE. WHERE RACEWAY IS TERMINATED NOT IN AN ENCLOSURE, SUCH AS AT A BACKBOARD OR IN A FURRED SPACE, PROVIDE INSULATED THROAT BUSHINGS. FIELD INSERTABLE THROATS ARE NOT ACCEPTABLE. PROVIDE ALL EMPTY CONDUITS WITH NO. 14 GALVANIZED STEEL PULL WIRE WITH 12 INCHES FREE AT EACH END.

PART 3 – OUTLET BOXES

A. CONSTRUCTION: UNLESS NOTED OTHERWISE, BOXES SHALL BE GALVANIZED SHEET STEEL 1/16 INCH THICK MINIMUM, AT LEAST 1–1/2 INCHES DEEP. BOXES SHALL BE SIZED TO ACCOMMODATE THE DEVICES AND CONDUCTORS INDICATED IN ACCORDANCE WITH NEC. BOXES NOT CAST IN CONCRETE OR SET IN MASONRY SHALL BE FASTENED TO THE BUILDING STRUCTURE IN THE SAME MANNER AS SPECIFIED FOR THE CONDUIT SYSTEM.

B. BOX TYPES:

B.1. CEILING AND WALL BRACKET OUTLETS SHALL BE 4 INCH OCTAGONAL BOXES WITH PLASTER RINGS AS APPROPRIATE FOR THE FINISHED SURFACE.

B.2. SWITCH OUTLETS, RECEPTACLE OUTLETS AND AUXILIARY SYSTEM OUTLETS SHALL BE 4 INCH SQUARE BOXES WITH 3/4 INCH PLASTER RINGS WHERE USED IN PLASTER OR DRYWALL, 1 INCH PLASTER RINGS WHERE SET IN EXPOSED CONCRETE, 1 INCH TILE COVERS WHERE USED WITH CERAMIC TILE, AND OTHERWISE AS APPROPRIATE FOR CONSTRUCTION.

B.3. EXPOSED BOXES SHALL BE 4 INCH SQUARE UTILITY BOXES.

B.4. EXTERIOR BOXES AND BOXES IN WET LOCATIONS SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON WITH APPROPRIATE GASKETS AND FITTINGS.

PART 3 – OUTLET BOXES

B.5. SPECIAL PURPOSE OUTLETS SHALL HAVE BOX TYPES AS REQUIRED AND/OR AS INDICATED ON THE DRAWINGS.

C. BOX MANUFACTURERS: OUTLET BOXES SHALL BE AS MANUFACTURED BY APPLETON, RACO, STEEL CITY OR EQUAL.

D. INSTALLATION: OUTLET LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS A DIMENSIONED LOCATION IS SPECIFIED. OBTAIN ARCHITECT'S APPROVAL BEFORE RELOCATING ANY OUTLET DUE TO CONFLICTS. WHERE OUTLETS AT DIFFERENT LEVELS OCCUR TOGETHER THEY SHALL BE INSTALLED IN ONE VERTICAL LINE WHERE POSSIBLE. WHERE OUTLETS OCCURRING AT THE SAME HEIGHT ARE SHOWN THEY SHALL BE MOUNTED 6 TO 10 INCHES APART UNLESS SPECIFICALLY SHOWN UNDER A COMMON COVER. OUTLET HEIGHTS IN MASONRY WALLS MAY BE SLIGHTLY ADJUSTED UP OR DOWN TO SUIT THE MASONRY COURSES PROVIDED THAT A UNIFORM HEIGHT IS MAINTAINED THROUGHOUT THE FACILITY. OTHER MOUNTING HEIGHTS SHALL BE AS NOTED IN THE SYMBOLS LEGEND AND ELSEWHERE IN THE DRAWINGS. WHERE OUTLETS OCCUR IN OR ABOVE CASEWORK, COUNTERS, CABINETS AND OTHER EQUIPMENT THEIR EXACT LOCATION AND MOUNTING HEIGHT SHALL BE VERIFIED WITH THE PARTICULAR ITEM PRIOR TO ROUGHING IN.

PART 4 – WIRING DEVICES

A. GENERAL: ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH FEATURES AS DESCRIBED HEREIN. SEE THE SYMBOLS LEGEND ON THE DRAWING FOR FURTHER DESCRIPTIONS OF VARIOUS DEVICES. ALL WIRING DEVICES SHALL BE IVORY IN COLOR AND ARE TO HAVE PLASTER EARS.

B. DEVICE PLATES:

B.1. FLUSH MOUNTED OUTLETS: DEVICE PLATES FOR ALL FLUSH MOUNTED OUTLETS SHALL BE ONE–PIECE SMOOTH IMPACT–RESISTANT PLASTICS. PLATES SHALL BE PROVIDED WITH THE APPROPRIATE NUMBER OF MATCHING COUNTERSUNK SCREWS AND SHALL BE INSTALLED WITH ALL FOUR EDGES IN CONTINUOUS CONTACT WITH THE FINISHED WALL.

B.2. SURFACE MOUNTED OUTLETS: DEVICE PLATES FOR ALL SURFACE MOUNTED OUTLETS SHALL BE ONE–PIECE, ZINC COATED SHEET STEEL, .040 INCHES THICK WITH ROUNDED EDGES AND FURNISHED WITH MATCHING COUNTERSUNK SCREWS.

B.3. EXTERIOR OUTLETS: DEVICE COVER PLATES FOR EXTERIOR MOUNTED OUTLETS (OR OUTLETS MOUNTED IN WET LOCATIONS) SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON TO MATCH BOX CONSTRUCTION AND SHALL BE INSTALLED WITH PROPER GASKETING. CAPS SHALL BE PERMANENTLY ATTACHED TO THE COVER BY MEANS OF A SPRING–LOADED HINGE.

B.4. COMMUNICATION OUTLETS: OUTLETS IN WHICH A CORD ONLY IS TO BE INSTALLED WITH NO DEVICE OR JACK, SHALL BE PROVIDED WITH A 3/8 INCH DIA. BUSHED HOLE IN THE CENTER OR AS NOTED ON THE DRAWINGS.

C. WALL SWITCHES:

C.1. CONSTRUCTION: WALL SWITCHES SHALL BE THE TOTALLY ENCLOSED TYPE WITH A NON–CONDUCTIVE PHENOLIC OR PLASTIC HANDLE AND DEEP SLOTTED SCREW TERMINALS. SWITCHES SHALL BE OF A TYPE SUCH THAT ONLY ONE SWITCH MAY BE INSTALLED IN A SINGLE GANG LOCATION. SWITCHES SHALL BE QUIET–TYPE, RATED FOR 15 AMPS, 120/277 VOLTS AC ONLY WITH THE THROW, CONTACT TYPE, AND NUMBER OF POLES AS INDICATED.

C.2. MANUFACTURER'S CATALOG NUMBERS

ARROW–HART: SINGLE POLE 1891, DOUBLE POLE 1892, THREE–WAY 1893, FOUR–WAY 1894
BRYANT: SINGLE POLE 4801, DOUBLE POLE 4802, THREE–WAY 4803, FOUR–WAY 4804
HUBBELL: SINGLE POLE 1201, DOUBLE POLE 1202, THREE–WAY 1203, FOUR–WAY 1204

D. MOTOR SWITCHES: MOTOR SWITCHES SHALL BE PROVIDED WITH PILOT LIGHT AND INTEGRAL THERMAL OVERLOAD PROTECTION. ENCLOSURES SHALL BE NEMA TYPE 1 OR TYPE 4 AS REQUIRED BY UNIT LOCATION. UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED. MOTOR SWITCHES SHALL BE SQUARE D CLASS 2510 OR EQUAL WITH NUMBER OF POLES AS REQUIRED.

E. POWER RECEPTACLES:

E.1. CONSTRUCTION: POWER RECEPTACLES SHALL BE OF A STANDARD NEMA CONFIGURATION FOR THE VOLTAGE AND AMPERAGE CHARACTERISTICS OF ITS INTENDED USE. BODIES SHALL BE OF A NON–CONDUCTIVE PHENOLIC OR PLASTIC COMPOUND PERMANENTLY ATTACHED TO A METAL MOUNTING YOKE. INTERNAL CONTACT ARRANGEMENT SHALL BE SUCH THAT CONTACT IS MADE ON TWO OPPOSITE SIDES OF AN INSERTED BLADE. GROUND TERMINALS SHALL BE CONNECTED TO THE MOUNTING YOKE AND PROVIDED WITH A GREEN COLORED SCREW FOR CONNECTION OF THE CIRCUIT GROUNDING CONDUCTOR. GROUND FAULT CIRCUIT INTERRUPTER DEVICES SHALL CONFORM TO THE REQUIREMENTS OF UL 943. LOCKING OF RECEPTACLES INDICATED TO BE THE LOCKING TYPE SHALL BE ACCOMPLISHED BY ROTATION OF THE PLUG.

E.2. MANUFACTURER'S CATALOG NUMBERS

	ARROW–HART	BRYANT	HUBBELL
15A, 125V DEVICES – NEMA 5–15R			
SINGLE OUTLET	5261	5261	5261
DUPLEX OUTLET	5262	5262	5262
DUPLEX/GFC	GF8200	GFR52FT	GF–5262
20A, 125V DEVICES – NEMA 5–20R			
DUPLEX OUTLET	5362	5362	5362
50A, 125/250V DEVICES – NEMA 10–50R			
SINGLE OUTLET	7985	9306	7962

E.3. INSTALLATION: CARE SHALL BE EXERCISED TO PROTECT THE INSTALLED DEVICES FROM PAINT SPLATTER. DEVICES THAT HAVE BEEN DAMAGED AND/OR DEVICES THAT HAVE BEEN PAINTED OVER SHALL BE REPLACED PRIOR TO FINAL INSPECTION.

F. SWITCHES: SWITCH OUTLETS ARE GENERALLY TO BE LOCATED 6 TO 10 INCHES FROM THE DOOR JAMB ON THE LATCH SIDE OF THE DOOR WHERE POSSIBLE. COORDINATE HEIGHTS AS DIRECTED BY ARCHITECT.

G. RECEPTACLES: POWER RECEPTACLE OUTLETS SHALL BE INSTALLED FLUSH OR SURFACE MOUNTED AT THE HEIGHTS AND LOCATIONS SHOWN ON THE DRAWINGS. RECEPTACLES WITH GROUND TERMINALS SHALL BE INSTALLED WITH THE GROUND TERMINAL DOWN.

PART 5. CONDUCTORS

A. MATERIAL: CONDUCTORS SHALL BE COPPER, NO LESS THAN 98% CONDUCTIVITY, WITH 600 VOLT INSULATION. MANUFACTURER'S NAME, INSULATION TYPE AND CONDUCTORS SIZE SHALL BE IMPRINTED ON THE OUTER JACKET AT REGULAR INTERVALS. BRANCH CIRCUIT CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID TYPE THWN; NO. 8 AND LARGER SHALL BE STRANDED, TYPE THW. FEEDER CONDUCTORS SHALL BE TYPE RHW OR RHH.

B. SIZES: ALL CONDUCTOR SIZES REFER TO AWG STANDARD. MINIMUM WIRE SIZE USED IN LINE VOLTAGE POWER CIRCUITS SHALL BE NO. 12. WHERE THE FIRST DEVICE IN A BRANCH CIRCUIT OCCURS FARTHER THAN 100 FT. FROM THE PANELBOARD THE BRANCH CIRCUIT CONDUCTORS SHALL BE INCREASED TO THE NEXT LARGER SIZE.

C. COLOR CODING: CONDUCTOR COLOR CODING SHALL BE IN COMPLIANCE WITH NEC SECTION 210–5. WHERE IT IS NOT PRACTICAL TO USE COLOR CODED INSULATION, CONDUCTORS SHALL BE IDENTIFIED WITH A MINIMUM 6 INCH BAND OF THE PROPER COLORS OF TAPE OR PAINT IN ALL PANELBOARDS, SWITCHES, JUNCTION BOXES, PULL BOXES OR OTHER ENCLOSURES. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN.
CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208Y/120 VOLT SYSTEMS:
PHASE A – BLACK
PHASE B – RED
PHASE C – BLUE
NEUTRAL – WHITE
GROUND – GREEN

D. MANUFACTURERS: CONDUCTORS SHALL BE OF THE TYPES INDICATED MANUFACTURED BY GENERAL, OKONITE, ROME OR TRIANGLE.

E. CONNECTORS: SPLICES IN CONDUCTORS SHALL BE JOINTED USING SOLDERLESS TYPE CONNECTORS. FOR SOLID CONDUCTORS, PRE–INSULATED TWIST–ON TYPE CONNECTORS SUCH AS IDEAL "WING NUT" OR BUCHANAN "B–CAP" SHALL BE USED. FOR STRANDED CONDUCTORS, HYDRAULIC OR MECHANICAL TYPE COMPRESSION CONNECTORS SHALL BE USED AND THE JOINT SHALL BE WRAPPED WITH APPROVED GUM AND FRICTION TAPES OR ELECTRICAL TYPE TO EQUAL THE CONDUCTOR INSULATION VALUE.

F. INSTALLATION: DO NOT INSTALL CONDUCTORS UNTIL ALL CONDUIT SYSTEMS ARE COMPLETE AND THE BUILDING HAS BEEN CLOSED TO THE WEATHER. USE ONLY UL APPROVED LUBRICANTS TO FACILITATE THE PULLING OF CONDUCTORS.

G. WIRING METHODS: THE WIRING SYSTEM SHALL CONSIST OF SINGLE CONDUCTOR CABLES INSTALLED IN METALLIC RACEWAY UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS SHALL BE OF THE TYPES AND SIZES SHOWN AND AS SPECIFIED HEREIN; WHERE NO TYPES OR SIZES ARE INDICATED THEY SHALL BE AS REQUIRED BY CODE. MULTI–CONDUCTOR CIRCUITS SHALL BE EMPLOYED AS INDICATED; ASSURE THAT NOT MORE THAN ONE CONDUCTOR IS CONNECTED TO THE SAME PHASE TO PREVENT OVERLOADING OF THE NEUTRAL CONDUCTOR. CIRCUIT NUMBERS INDICATED BY THE HOME RUNS ON THE DRAWINGS ARE BASICALLY FOR CIRCUIT SEPARATION; CIRCUITS SHALL BE CONNECTED TO THE PANELBOARD TO GIVE AN EVENLY BALANCED LOAD BETWEEN PHASES BASED ON NORMAL USAGE CONDITIONS OF THE CONNECTED EQUIPMENT. ANY DEPARTURE FROM THE CIRCUITING ARRANGEMENT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING.

H. ALUMINUM CONDUCTORS ARE APPROVED FOR USE AS SERVICE CONDUCTORS AND PANEL FEEDERS ONLY.

I. MC CABLE IS APPROVED FOR CONCEALED BRANCH CIRCUIT WIRING.

PART 6. GROUNDING

A. GENERAL: EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, ALL EXPOSED NON–CURRENT CARRYING METAL PARTS OF ELECTRIC EQUIPMENT, METALLIC RACEWAY SYSTEMS, EQUIPMENT GROUND BUS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR IN NON–METALLIC RACEWAYS AND THE NEUTRAL CONDUCTOR SHALL BE GROUNDED IN ACCORDANCE WITH NEC. BONDING OF THE GROUND TO THE POWER WIRING NEUTRAL CONDUCTOR SHALL OCCUR AT THE POINT OF SERVICE ENTRANCE ONLY. GROUND SHALL BE OBTAINED BY CONNECTING THE GROUND CONDUCTOR TO THE WATER SERVICE BY AN APPROVED TYPE CLAMP; SUPPLEMENTAL GROUNDS SHALL BE OBTAINED BY BONDING TO BUILDING STEEL AND WITH DRIVEN RODS.

B. GROUND RODS: GROUND RODS SHALL BE COPPER–CLAD STEEL NOT LESS THAN 5/8 INCH IN DIAMETER, 10 FEET LONG, DRIVEN FULL LENGTH INTO THE EARTH. MULTIPLE GROUND RODS SHALL BE INSTALLED ON NOT LESS THAN 8 FOOT CENTERS OR AS SHOWN.

C. BARE GROUND CONDUCTOR: BARE CONDUCTORS FOR BURIED GROUNDING SYSTEM USE SHALL BE BRAIDED COPPER, NO. 1 AWG MINIMUM.

D. CONNECTIONS: ALL CONNECTIONS TO GROUND RODS AND UNDERGROUND GROUNDING CABLE SHALL BE MADE WITH HYDRAULIC COMPRESSION FITTINGS OR EXOTHERMIC WELDS.

E. BUILDING EQUIPMENT GROUND CONDUCTOR: THE EQUIPMENT GROUND CONDUCTOR SHALL BE COPPER WITH GREEN INSULATION. WHERE GREEN INSULATION IS NOT AVAILABLE, A MINIMUM 6 INCH BAND OF GREEN TAPE SHALL BE APPLIED AT EACH TERMINATION POINT AND IN EACH CABINET, PULLBOX, ETC., THE CONDUCTOR PASSES THROUGH. A GROUND SHALL BE INSTALLED IN ALL PLASTIC CONDUITS, AROUND EXPANSION JOINTS, IN FLEXIBLE CONDUITS AND AS OTHERWISE INDICATED ON THE DRAWINGS. THE GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE NEC.

PART 7. ELECTRICAL SERVICE

A. DESCRIPTION: THE ELECTRICAL SERVICE TO THE BUILDING IS NEW. THE SECONDARY SERVICE CONFIGURATION SHALL BE 480/277 VOLTS, 3 PHASE, 4 WIRE WITH A GROUNDED, SOLID NEUTRAL. THE SERVICE TRANSFORMER AND METERING ARE EXISTING AT BUILDING "G" ON SITE. SEE THE DRAWINGS FOR FURTHER DETAIL.

PART 8. FUSES

A. PROVIDE A COMPLETE SET OF FUSES FOR EACH FUSIBLE SWITCH OF THE PROPER SIZE AND VOLTAGE RATING REQUIRED. ALL FUSES INSTALLED SHALL BE NEW AND A PRODUCT OF THE SAME MANUFACTURER. FUSES INSTALLED IN 120/208 OR 120/240 VOLT SYSTEMS SHALL BE RATED FOR 250VAC MINIMUM; FUSES INSTALLED IN 277/480 VOLT SYSTEMS SHALL BE RATED FOR 600VAC.

B. MANUFACTURERS: FUSES SHALL BE MANUFACTURED BY BUSSMAN, GENERAL ELECTRIC, GOULD–SHAWMUT OR RELIANCE.

C. FUSE CLASSES:

C.1. GENERAL PURPOSE FUSES: GENERAL PURPOSE FUSES SHALL BE USED FOR HEATING, LIGHTING AND OTHER NON–MOTOR LOADS WHERE HEAVY START–UP CURRENTS ARE NOT ENCOUNTERED. GENERAL PURPOSE FUSES SHALL BE CLASS H, K5 OR RK5.

C.2. TIME DELAY FUSES: TIME DELAY FUSES SHALL UTILIZE A DUAL–ELEMENT DESIGN TO ALLOW SUSTAINED HEAVY START–UP CURRENTS, SUCH AS FOR MOTORS, WITHOUT BLOWING THE FUSE. TIME DELAY FUSES SHALL BE CLASS J, RK1 OR RK5.

C.3. FAST ACTING FUSES: FAST ACTING FUSES SHALL BE USED FOR FEEDER PROTECTION, CIRCUIT BREAKER BACK–UP OR INCREASED EQUIPMENT PROTECTION. THESE FUSES SHALL BE LISTED AS CURRENT–LIMITING AND SHALL BE CLASS J, RK1, L OR T.

D. INSTALLATION: COORDINATE FUSE SIZES AND TYPES WITH THE FUSE HOLDERS OF THE INDIVIDUAL SWITCHES, STARTERS, ETC. FUSE AMPACITIES SHALL BE COORDINATED WITH THE MANUFACTURER OF THE ACTUAL EQUIPMENT BEING INSTALLED. PROVIDE ONE SET OF SPARE FUSES OF EACH TYPE AND AMPACITY.

E. COORDINATION: THE USE OF FUSES IN ANY PART OF THE POWER DISTRIBUTION SYSTEM SHALL BE COORDINATED WITH THE PANELBOARDS, SWITCHBOARDS AND CIRCUIT BREAKER SELECTED FOR USE. ANY CURRENT–LIMITING CAPABILITIES SHALL BE ACCOUNTED FOR IN A SYSTEM PROTECTIVE DEVICE COORDINATION REPORT PROVIDED BY THE ELECTRICAL CONTRACTOR IF REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

PART 9. SAFETY SWITCHES

A. SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED FOR ALL MOTORS AND OTHER EQUIPMENT AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY TYPE, QUICK–MAKE, QUICK–BREAK IN NEMA 1 GENERAL PURPOSE ENCLOSURES WITH INTERLOCKING DOORS. WHERE EXPOSED TO THE WEATHER, MOISTURE OR WHERE SO NOTED, FURNISH SWITCHES IN NEMA 3R ENCLOSURES. SWITCHES USED IN MOTOR CIRCUITS SHALL BE HORSEPOWER RATED. WHERE FUSIBLE SWITCHES ARE INDICATED OR REQUIRED THEY SHALL BE EQUIPPED WITH REJECTION TYPE FUSE CLIPS, FURNISH COMPLETE WITH FUSES. ALL SAFETY SWITCHES SHALL BE TYPE HD BY GENERAL ELECTRIC, SQUARE D OR SIEMENS.

PART 10. PANELBOARDS

A. CONSTRUCTION: ALL PANELBOARDS SHALL BE DEADFRONT CONSTRUCTION, SURFACE OR RECESSED MOUNTED AS CALLED FOR BY THE PANELBOARD SCHEDULE. LIGHTING AND APPLIANCE PANELBOARDS SHALL HAVE A HINGED DOOR COVER WITH A FLUSH COMBINATION LATCH AND KEYED LOCK; ALL LOCKS SHALL BE KEYED ALIKE. ALL COVERS SHALL BE FINISHED WITH A FACTORY APPLIED, STANDARD GRAY ENAMEL. BACKBOXES SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL AND A MINIMUM OF 20 INCHES WIDE.

B. INTERIOR: ALL INTERIORS SHALL BE FACTORY ASSEMBLED WITH ALUMINUM BUSSING AND BOLT–ON MOLDED CASE CIRCUIT BREAKERS. CIRCUIT NUMBERING SHALL BE AS INDICATED ON THE DRAWINGS. MULTI–POLE CIRCUIT BREAKERS SHALL HAVE A COMMON INTERNAL TRIP ACTION AND SHALL BE INTERCHANGEABLE WITH SINGLE–POLE BREAKERS. WHERE "BUSSED SPACE" IS INDICATED, INCLUDE ALL NECESSARY PROVISIONS FOR ADDING ADDITIONAL BREAKERS; NO ADDITIONAL PARTS OR MODIFICATIONS TO THE BUSSING OR PANEL STRUCTURE SHALL BE REQUIRED. SEE THE PANELBOARD SCHEDULE FOR INDIVIDUAL PANELBOARD BUS RATINGS, CIRCUIT BREAKER AND SPACE REQUIREMENTS. ALL COMPONENTS OF THE PANELBOARD ASSEMBLY SHALL BE LISTED FOR USE AT THE AVAILABLE FAULT CURRENT LEVELS DETERMINED IN THE COORDINATION STUDY.

C. SERVICE ENTRANCE EQUIPMENT: EQUIPMENT USED TO PROVIDE ENTRANCE FOR THE ELECTRICAL SERVICE INTO THE FACILITY SHALL BE UL LABELED FOR SUCH USE. EQUIPMENT SHALL BE LISTED FOR USE AT THE AVAILABLE UTILITY FAULT CURRENT LEVELS.

D. MANUFAC

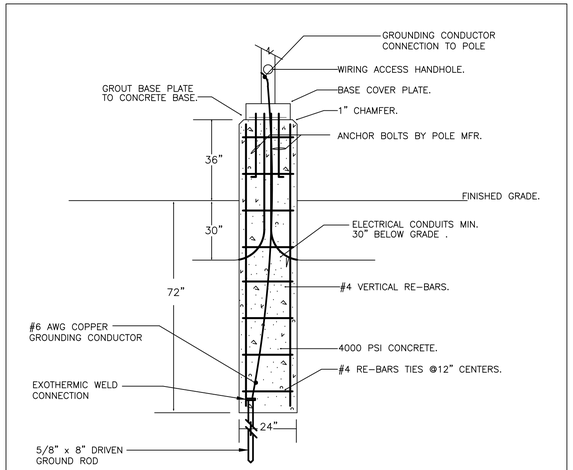
LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	VOLT	LAMP	MOUNT	MANUFACTURER
P1	POLE MOUNTED LED AREA LIGHT, WET LOCATION, HOUSE SIDE EXTERNAL GLARE SHIELD, DARK BRONZE FINISH, T4 OPTICS, SURGE PROTECTION	120	133 W LED 21,239 LUM 4000 K	30' STEEL POLE ON 36" CONCRETE BASE	LITHONIA EAX2-ALO-SWW2-SO-UVOLT-SRA-SPD10KV-DOB-EAX2HSEGSBL-M6 POLE: SSS-30-4G-DM19EAX
P2	(2) P1 FIXTURES ON A SINGLE POLE @ 180°	120	133 W LED EACH 21,239 LUM 4000 K	30' STEEL POLE ON 36" CONCRETE BASE	LITHONIA EAX2-ALO-SWW2-SO-UVOLT-SRA-SPD10KV-DOB-EAX2HSEGSBL-M6 POLE: SSS-30-4G-DM19EAX

NOTES:
1. CONNECT ALL EXIT & EMERGENCY LIGHTS TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.
2. EQUAL FIXTURES BY COOPER, HUBBELL, LSI, PHILLIPS OR LITHONIA.

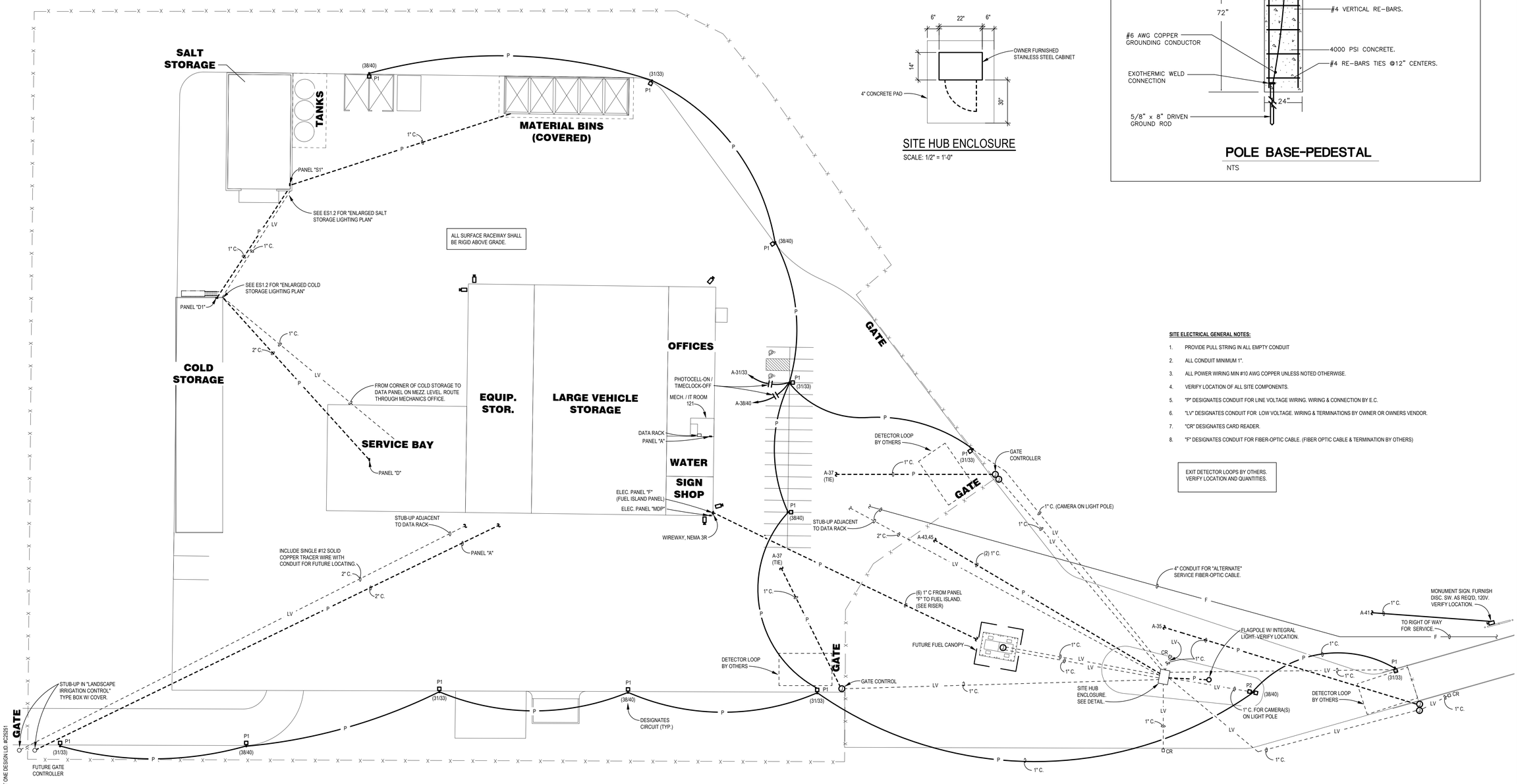
SITE HUB ENCLOSURE

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



POLE BASE-PEDESTAL

NTS



SITE ELECTRICAL GENERAL NOTES:

1. PROVIDE PULL STRING IN ALL EMPTY CONDUIT
2. ALL CONDUIT MINIMUM 1".
3. ALL POWER WIRING MIN #10 AWG COPPER UNLESS NOTED OTHERWISE.
4. VERIFY LOCATION OF ALL SITE COMPONENTS.
5. "P" DESIGNATES CONDUIT FOR LINE VOLTAGE WIRING. WIRING & CONNECTION BY E.C.
6. "LV" DESIGNATES CONDUIT FOR LOW VOLTAGE. WIRING & TERMINATIONS BY OWNER OR OWNERS VENDOR.
7. "CR" DESIGNATES CARD READER.
8. "F" DESIGNATES CONDUIT FOR FIBER-OPTIC CABLE. (FIBER OPTIC CABLE & TERMINATION BY OTHERS)

EXIT DETECTOR LOOPS BY OTHERS. VERIFY LOCATION AND QUANTITIES.

ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

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WDC GROUP

REVISIONS:

vandalia ohio
small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377

ELECTRICAL SITE PLAN

PROJECT NO.: 23014
DRAWN BY: TSP
DATE: 05-18-2026
CHECKED BY: VWE

ES1.1

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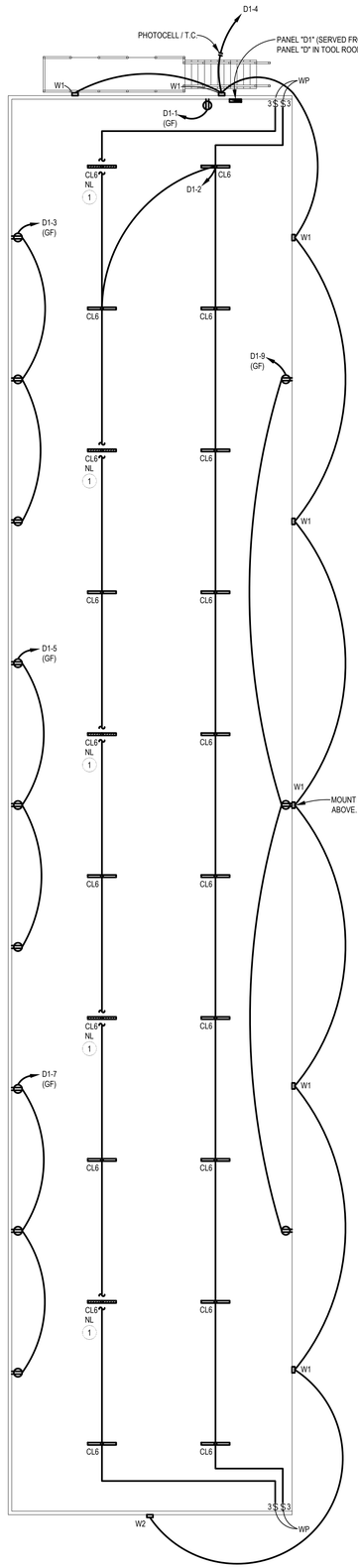
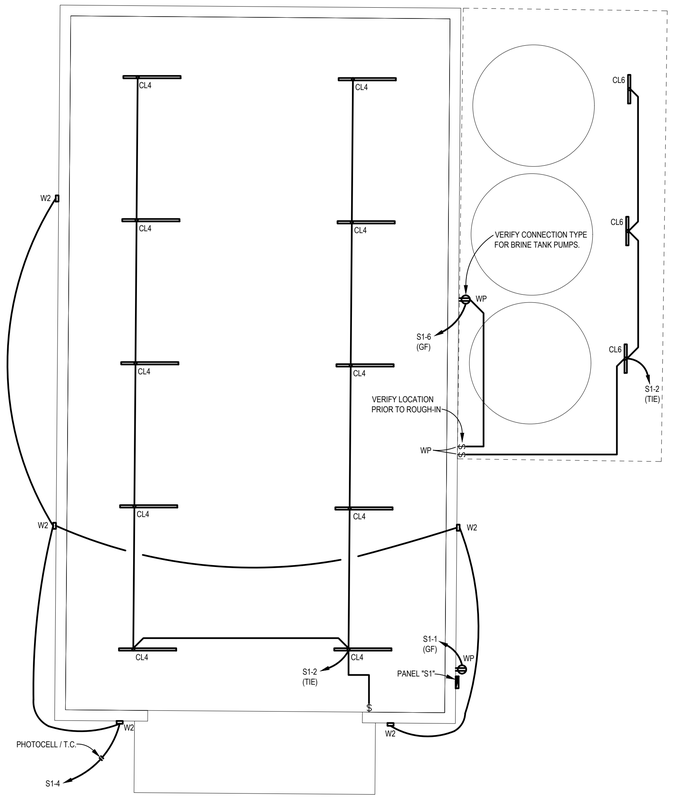


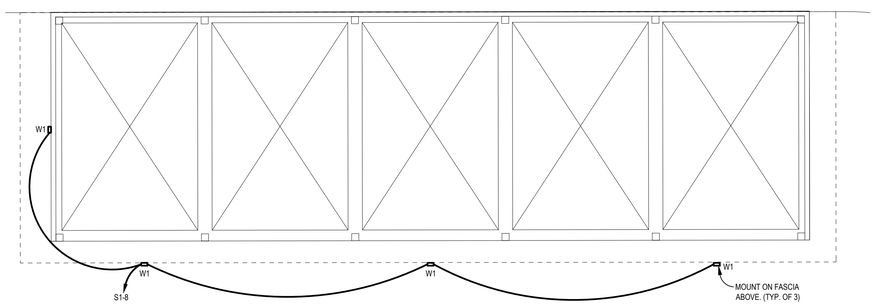
ENLARGED COLD STORAGE ELECTRICAL PLAN

SCALE: 1" = 10'-0"



ENLARGED SALT STORAGE ELECTRICAL PLAN

SCALE: 1" = 10'-0"



ENLARGED MATERIAL BINS (COVERED) ELECTRICAL PLAN

SCALE: 1" = 10'-0"

LIGHTING CODED NOTES

1. CONNECT NIGHT LIGHTS (NL) TO LOCAL AREA LIGHTING CIRCUIT (D1-2) AHEAD OF ANY SWITCHING AND AUTOMATIC CONTROLS.

ALL WORK ON THIS SHEET BY 16A UNLESS OTHERWISE NOTED.

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WDC GROUP

REVISIONS:

vandalia ohio small city, big opportunity.

A NEW PUBLIC WORKS FACILITY FOR THE CITY OF VANDALIA
VANDALIA, OHIO 45377
ENLARGED OUT BUILDING ELECTRICAL PLANS

PROJECT NO.:	23014
DRAWN BY:	TSP
DATE:	05-18-2026
CHECKED BY:	VWE

ES1.2

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16A CONTRACTOR	
△	FOR ALL DATA OUTLETS PROVIDE CONDUIT AND PULL STRING TO ABOVE CEILINGS. ALL DATA WIRING, DEVICES AND TESTING BY OWNER.

DATA SYMBOLS	
△	DATA WALL RUN
□	WALL PHONE
○	TIME CLOCK
◈	CEILING MOUNTED WIRELESS ACCESS POINT

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GWAL CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GWAL CONTRACTOR.

F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.

CODED NOTES:

16A 1 3/4" EMT CONDUIT WITH PULL STRING TO ABOVE CEILING.

2 (1) 3" CONDUIT AND PULL STRING TO STREET FOR METRO NET FIBER.

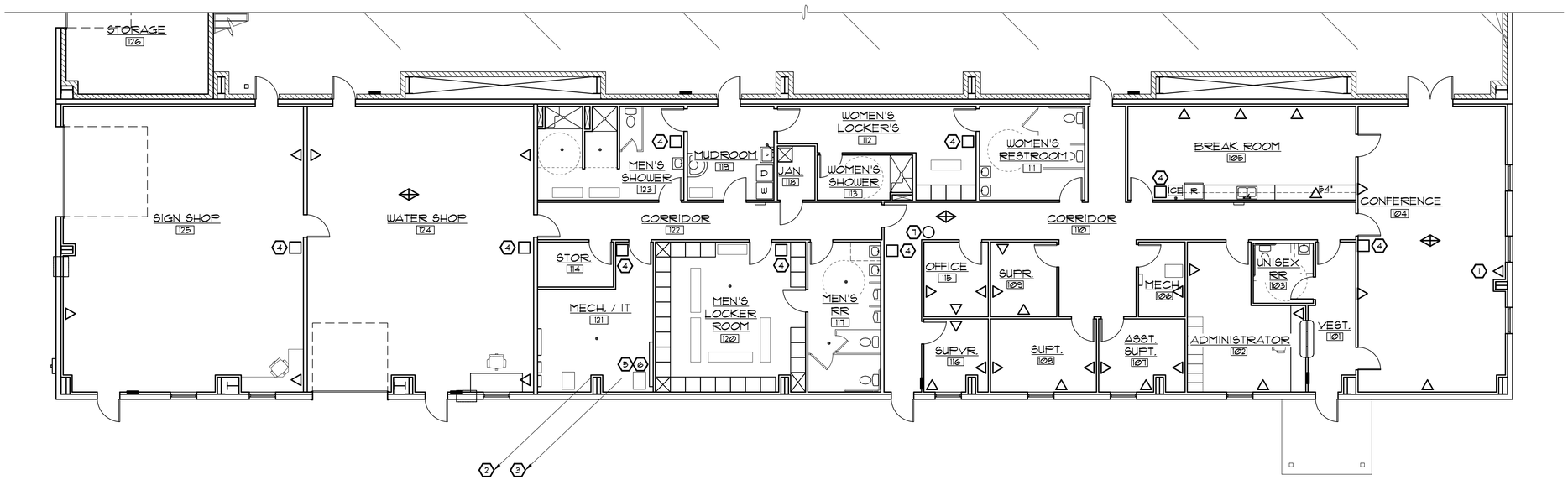
3 (1) 4" CONDUIT AND PULL STRING TO FUEL ISLAND PULL BOX (SPECS TO BE GIVEN BY OWNER). THEN PROVIDE 3" CONDUIT FOR CARD READER ON EXIT SIDE OF FULL ISLAND & THEN 2" CONDUIT ACROSS ENTRY DRIVE TO GATE ARM LOCATION & CARD READER ON EGRESS SIDE AS WELL.

16A 4 TYPICAL WALL PHONE MOUNTIES AT 48" ABOVE FLOOR. PROVIDE 3/4" EMT CONDUIT, BOX, AND PULL STRING TO ABOVE CEILING.

1A 5 INSTALL (2) 4x8 SHEETS PLYWOOD.

6 PROVIDE (2) 20 AMP 120V CIRCUIT, AND (1) 208V OUTLET 30 AMP SINGLE PHASE ON PLYWOOD.

7 TIME CLOCK WILL HAVE AN OUTLET & DATA, 54" AFF.



DATA FLOOR PLAN
SCALE: 1/8"=1'-0" 7,160 SF

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8909235 EXP. 12/31/26

vandalia ohio
small city. big opportunity.

A NEW PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
610 NORTHWOODS BLVD
VANDALIA, OHIO 45377

BUILDING DATA PLAN

DATA FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY: _____

E4.1
108 OF 112

16A CONTRACTOR	
△	FOR ALL DATA OUTLETS PROVIDE CONDUIT AND PULL STRING TO ABOVE CEILINGS. ALL DATA WIRING, DEVICES AND TESTING BY OWNER.

DATA SYMBOLS	
△	DATA WALL RUN
◇	CEILING MOUNTED ACCESS POINT
□	WALL PHONE
◈	CEILING MOUNTED WIRELESS ACCESS POINT

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

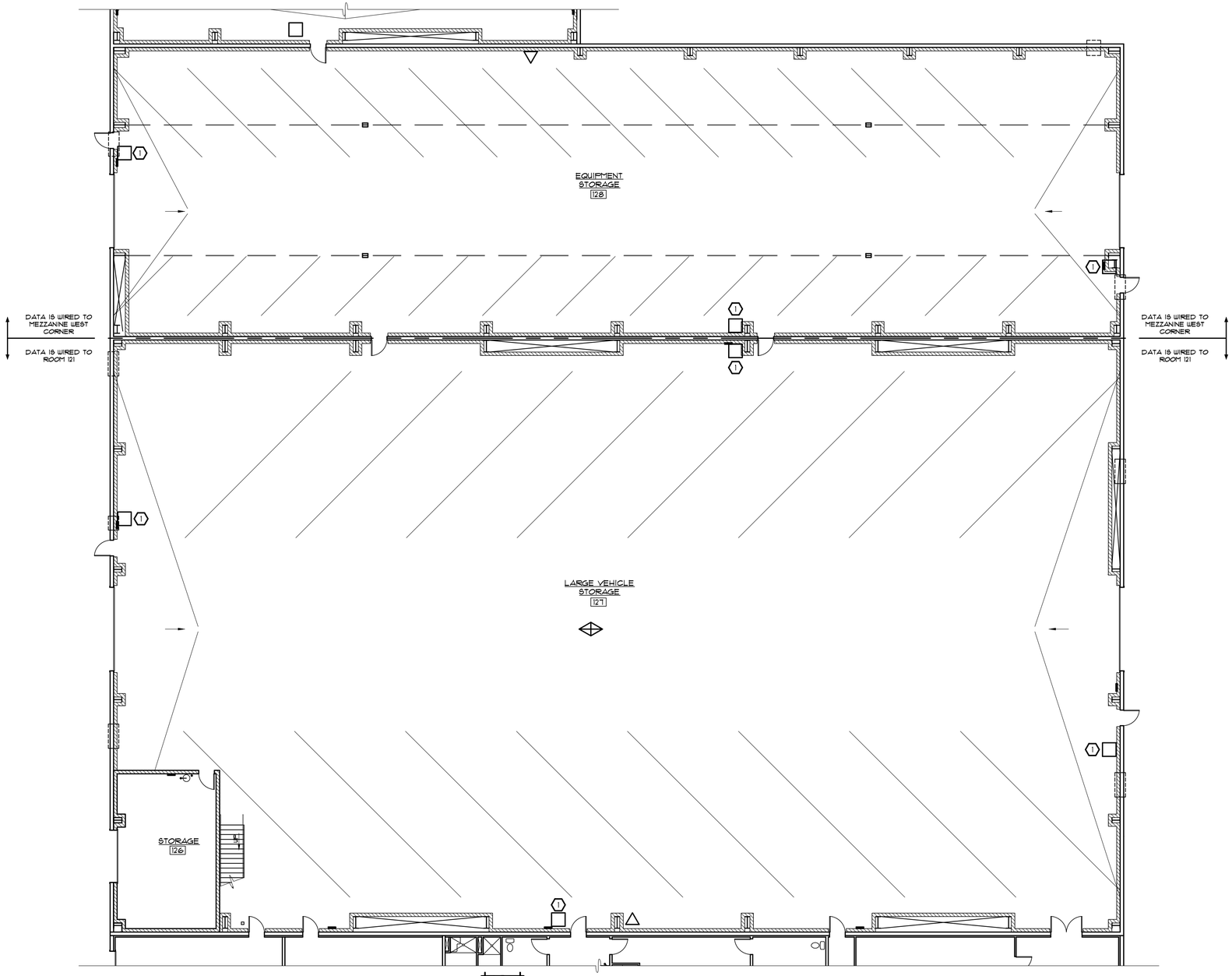
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GW4L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GW4L CONTRACTOR.

F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.

CODED NOTES:

16A 1 WALL MOUNTED PHONE. PROVIDE 3/4" EMT CONDUIT UP WALL TO STEEL ROOF PURLING.



DATA FLOOR PLAN
SCALE: 3/32"=1'-0" 32,980 SF

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BUILDING DATA PLAN

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vandalia ohio
small city, big opportunity.

A NEW
PUBLIC WORKS FACILITY
FOR
THE CITY OF VANDALIA
810 NORTHWOODS BLVD
VANDALIA, OHIO 45377
DATA FLOOR PLAN

PROJECT NO.: 23014
DRAWN BY:
DATE: 05/18/2026
CHECKED BY:

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16A CONTRACTOR	
△	FOR ALL DATA OUTLETS PROVIDE CONDUIT AND PULL STRING TO ABOVE CEILINGS. ALL DATA WIRING, DEVICES AND TESTING BY OWNER.

DATA SYMBOLS	
△	DATA WALL RUN
◈	CEILING MOUNTED ACCESS POINT
□	WALL PHONE

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.

C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

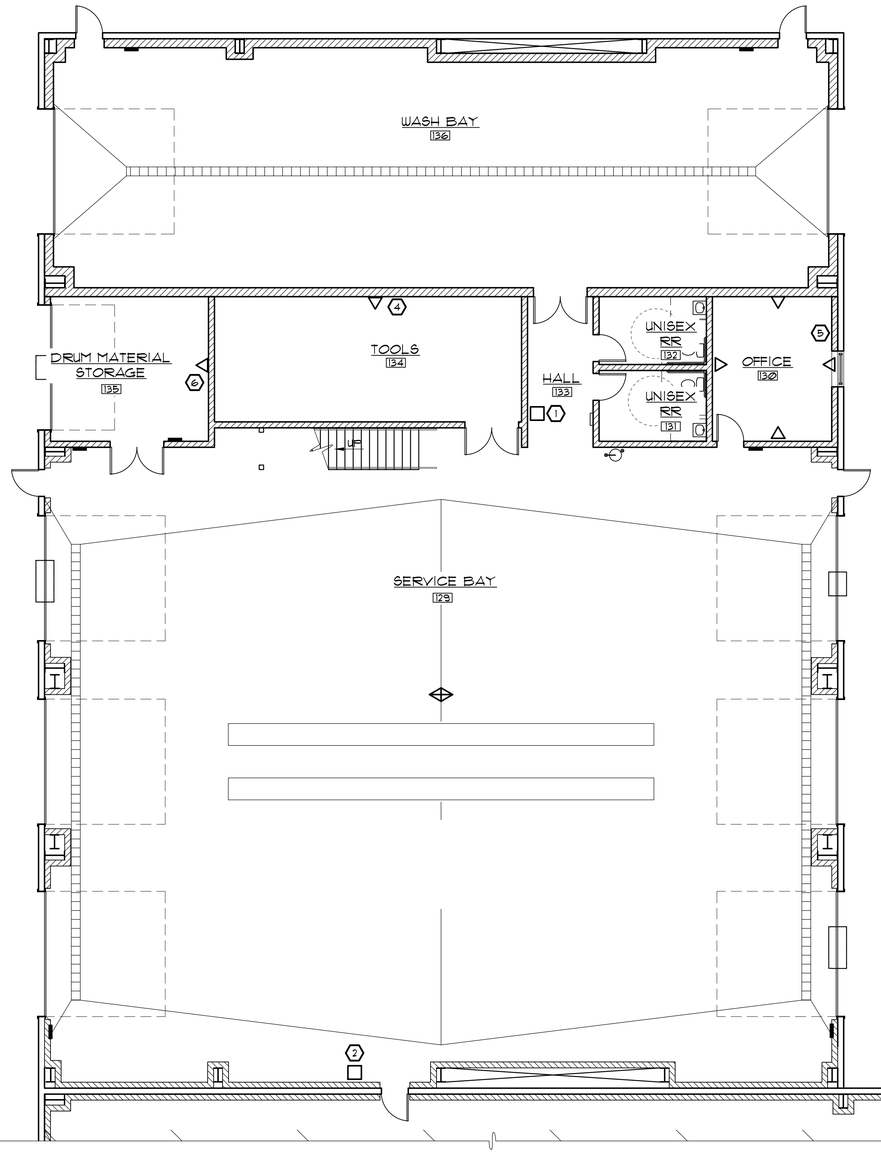
D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GW4L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GW4L CONTRACTOR.

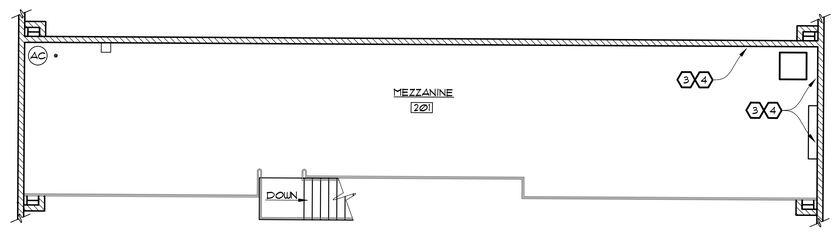
F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.

CODED NOTES:

1. 3/4" EMT CONDUIT AND BOX AT 48" ABOVE FINISH FLOOR TO PLYWOOD ABOVE OFFICE ON MEZZANINE.
2. WALL PHONE BOX, 3/4" EMT CONDUIT, PULLSTRING, AND BOX TO BOTTOM OF STEEL FRAME ABOVE.
3. INSTALL 4x8 SHEET PLYWOOD & PROVIDE (2) 20 AMP CIRCUITS WITH DUPLEX OUTLETS FOR EACH CIRCUIT.
4. 16A PROVIDE 1" EMT CONDUIT FROM PLYWOOD TO TOOL ROOM WITH QUAD BOX & COVER. CEILING MOUNTED, AND PULL STRING.
5. 3/4" EMT CONDUIT WITH PULL STRING AND BOX TO PLYWOOD ABOVE OFFICE.
6. 16A PROVIDE 1" EMT CONDUIT FROM PLYWOOD TO DRUM MATERIAL STORAGE WITH QUAD BOX & COVER. CEILING MOUNTED, AND PULL STRING.



DATA FLOOR PLAN
SCALE: 1/8"=1'-0" 10,620 SF



MEZZANINE PLAN
SCALE: 1/8"=1'-0" 1,459 SF

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BUILDING DATA PLAN

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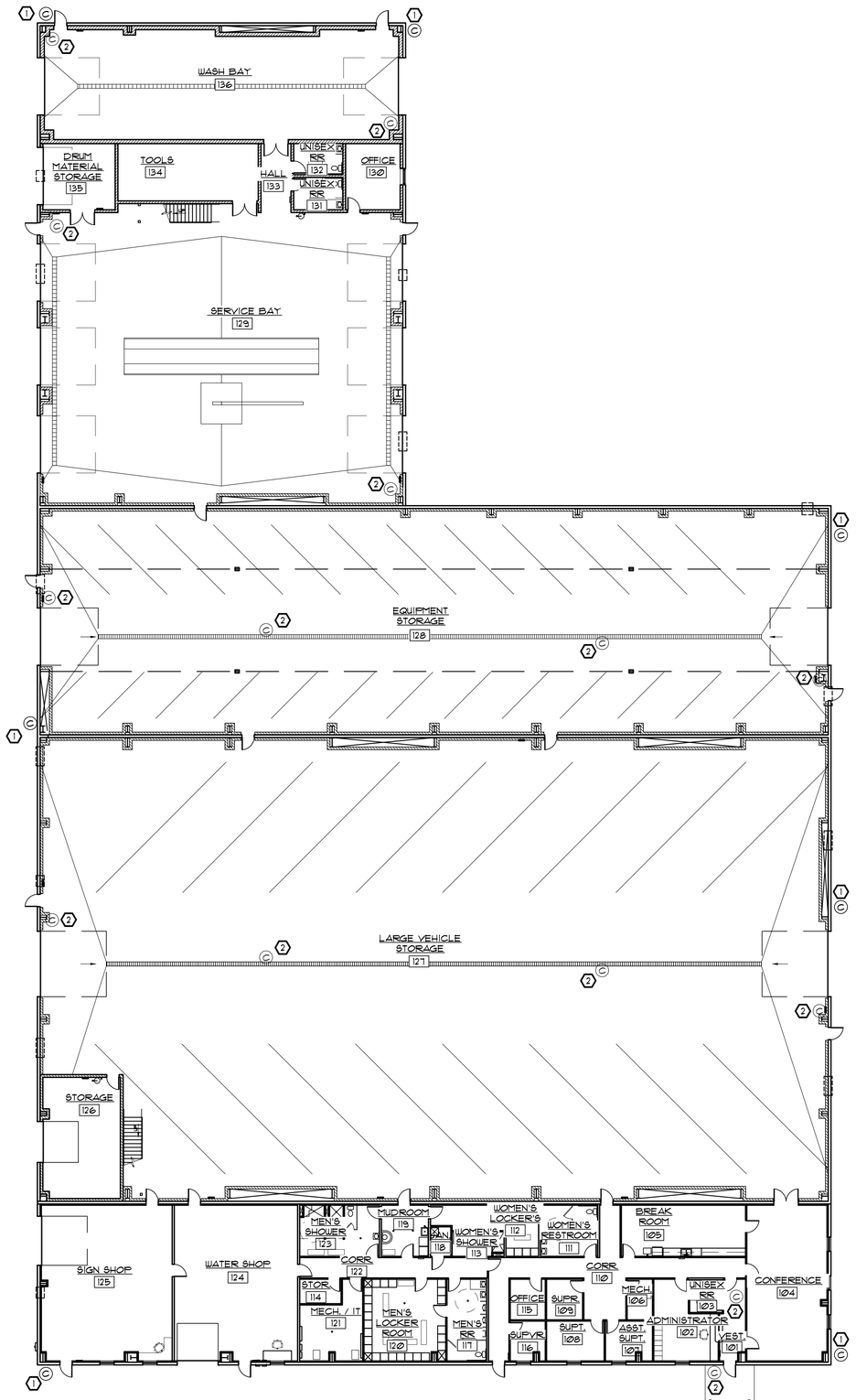

CAMERA LAYOUT PLAN
SCALE: 1/16"=1'-0"

GENERAL NOTES:

A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.

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C. ALL PENETRATIONS THROUGH WALLS SHALL BE CAULKED WITH FIRE RATED CAULK BY THE CONTRACTOR CREATING THE PENETRATION.

D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GWAL CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GWAL CONTRACTOR.

F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.

CODED NOTES:

1. EXTERIOR WALL MOUNTED CAMERA. NO CONDUIT NEEDED FROM CONTRACTOR. WALL MOUNT ARM PROVIDED & INSTALLED BY CAMERA CONTRACTOR.
2. INTERIOR CAMERA WALL MOUNTED. NO CONDUIT OR CEILING MOUNTED NEEDED FROM 16A CONTRACTOR.

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CAMERA LAYOUT FLOOR PLAN

CCTV CAMERA SYSTEM PLAN

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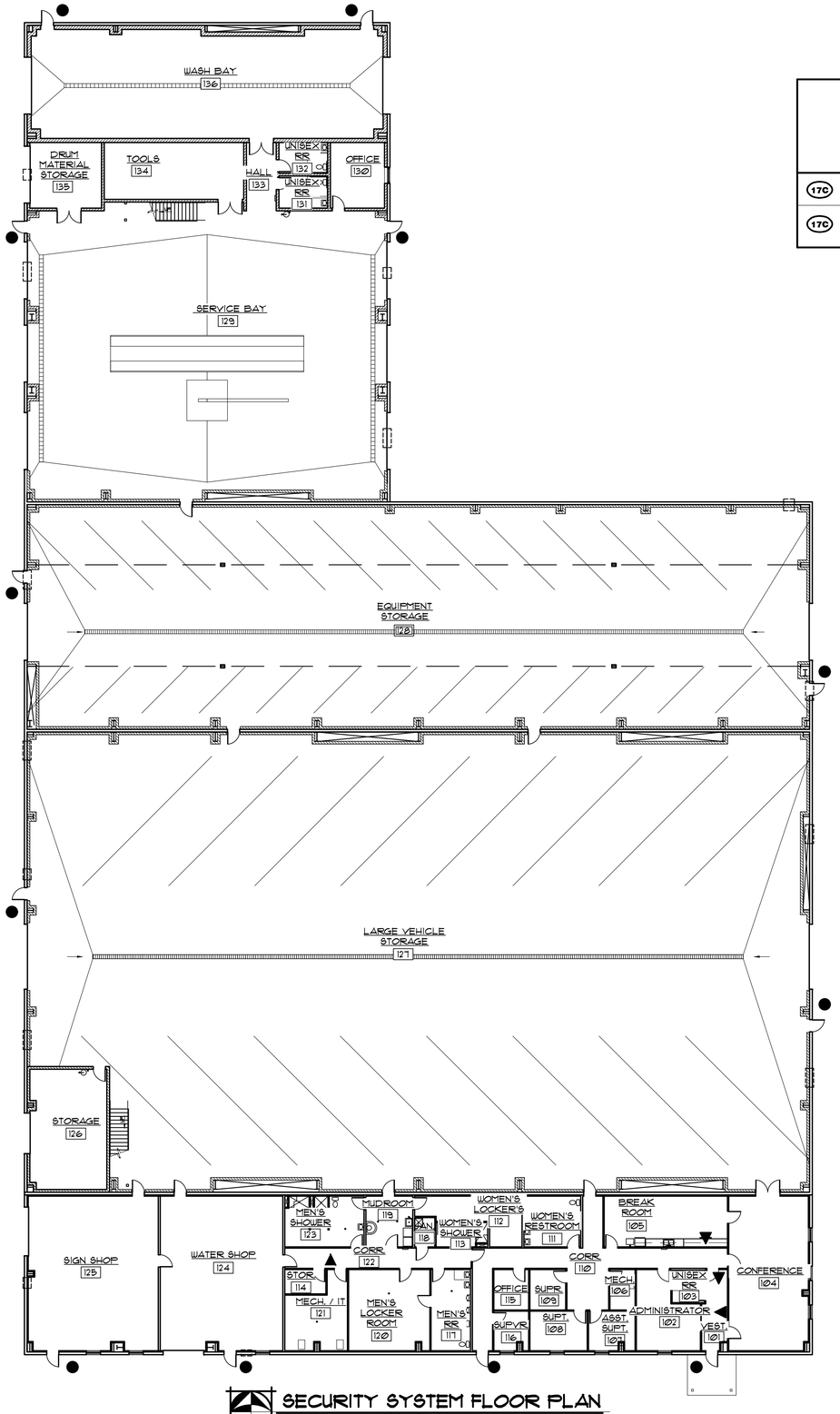

SECURITY SYSTEM FLOOR PLAN

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

SECURITY SYSTEM SYMBOLS

17C ●	CARD READER AT EXTERIOR DOOR
17C ▲	CARD READER & ELECTRIC LOCKSET AT INTERIOR DOOR

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D. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.

E. GWB. CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATED THEIR ROUGH IN WITH THE GWB. CONTRACTOR.

F. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.

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SECURITY SYSTEM PLAN

SECURITY / ALARM 17B

ACCESS CONTROL 17C

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