ERIE COUNTY AGRICULTURAL SOCIETY
AND
THE ERIE COUNTY FAIR
SLADE PARK BUILDING

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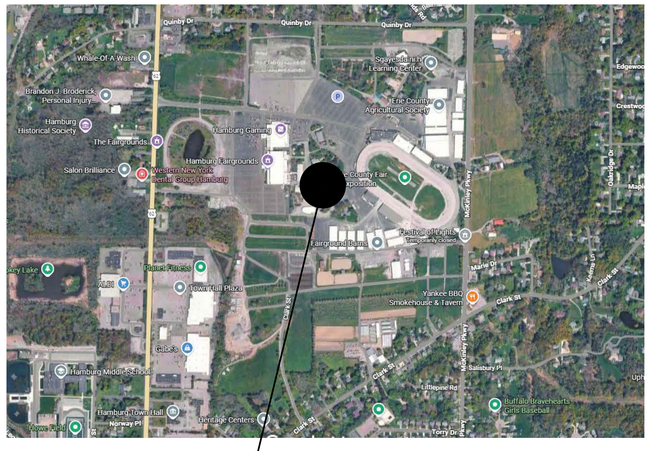
SITE LOCATION MAP



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BUILDING DATA

CONSTRUCTION TYPE:	TYPE 2B
OCCUPANCY:	A-2 AND A-3 ASSEMBLY
BUILDING AREA	32,850± SQ.FT.
NUMBER OF STORIES:	1-STORY
SPRINKLERS:	FULLY SPRINKLERED

BID ALTERNATES (ADD)

REFER TO SECTION 012300 ALTERNATES FOR THE DETAILED EXPLANATION OF EACH ALTERNATE

BID ALTERNATE #1: PROVIDE HEATED SIDEWALKS

BID ALTERNATE #2: PROVIDE GENERATOR

BID ALTERNATE #3: PROVIDE TRENCH/TROUGH STYLE SINK IN LIEU OF PORCELAIN SINKS

BID ALTERNATE #4: PROVIDE GLASS WINDOWS IN THE OPERABLE PARTITION SYSTEM

BID ALTERNATE #5: PROVIDE ACOUSTICAL LINEAR CEILING SYSTEM IN LIEU OF THE 2 x 2 SUSPENDED ACOUSTICAL CEILING SYSTEM IN EXHIBIT SPACE (101)

BID ALTERNATE #6: PROVIDE RESINOUS POLYASPARTIC FLOORING COATING SYSTEM IN LIEU OF THE STAINED CONCRETE FLOORING SYSTEM

ERIE COUNTY AGRICULTURAL SOCIETY AND THE ERIE COUNTY FAIR
SLADE PARK BUILDING
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No.	REVISIONS	DATE
	ISSUED FOR BID AND PERMIT	11-20-25
	ISSUED FOR SITE PLAN APPROVAL	3-17-26

DATE: 3-17-26
PROJECT No: 23-006

DRAWING No.

CS-01

KEYED DEMOLITION CONSTRUCTION NOTES: D0

D1 EXISTING NYS POLICE BUILDING EXISTING REPELLING TOWER STRUCTURE SHALL BE REMOVED ENTIRELY, INCLUDING BUT NOT LIMITED TO; ROOF, WALLS, CONCRETE FLOOR PAD, FOUNDATIONS, WINDOWS, DOORS, FINISHES, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS, ETC.

D2 FORMER LOCATION OF THE WOOD CARVERS BUILDING, REPUTED TO HAVE BEEN INSTALLED WITH CONCRETE PIERS. REMOVE ALL REMAINING FOUNDATIONS ENTIRELY AND DISPOSE.

D3 REMOVE ALL THE TREES, GRIND STUMPS, REMOVE ALL ORGANIC MATERIAL ENTIRELY, THAT WILL INTERFERE WITH THE CONSTRUCTION OF THE NEW BUILDING AND ASSOCIATED WORK (PER THE TOWN OF HAMBURG APPROVED SITE PLAN)

D4 NOTED FOR REFERENCE **NOT IN CONTRACT** (NIC) - ADDITIONAL EXISTING TREES ARE NOTED ON THE TOWN OF HAMBURG APPROVED SITE PLAN TO BE REMOVED. THE FINAL QUANTITY AND LOCATION OF EXISTING TREES SHALL DETERMINED UNDER A SEPARATE CONTRACT FOR LANDSCAPE ARCHITECTURE AND CIVIL DESIGN SCOPE OF WORK

D5 REMOVE THE ENTIRE ASPHALT PAVEMENT SECTION, INCLUDING BUT NOT LIMITED TO; ASPHALT PAVEMENT BINDER AND TOPPING, STONE SUB-BASE AND ADDITIONAL SUB-BASE MATERIAL AS REQUIRED TO TO PREP THE AREA TO PROVIDE THE PROPER FINISHED GRADE ELEVATIONS AND MATERIALS.

D6 SAWCUT THE EXISTING ASPHALT PAVEMENT WHERE INDICATED TO REMAIN - COORDINATE THE EXACT LOCATION WITH NEW WORK.

D7 REMOVE EXISTING GRASS, TOPSOIL AND UNSATISFACTORY SUBGRADE ENTIRELY TO PERFORM NEW WORK - REFER TO C-102 SITE PLAN LAYOUT

D8 REMOVE THE EXISTING DRINKING FOUNTAIN, CONCRETE PAD, ASSOCIATE SUBGRADE MATERIAL AND AL PLUMBING LINES TO THE NEAREST MAIN ENTIRELY.

D9 REMOVE THE EXISTING LIGHT STANDARD ENTIRELY, INCLUDING THE CONCRETE FOUNDATION AND ELECTRICAL POWER AND ASSOCIATED CONDUIT

D10 REMOVE EXISTING CONCRETE PAD ENTIRELY, INCLUDING BUT NOT LIMITED TO; ALL CONCRETE, STONE SUB-BASE AND ADDITIONAL SUB-BASE MATERIALS AS REQUIRED TO PREP THE AREA AND TO PROVIDE THE PROPER FINISHED GRADE ELEVATIONS AND MATERIALS.

D11 REMOVE THE EXISTING UTILITY POLE, GUY WIRE AND ANCHOR AND OVERHEAD AND BELOW GROUND WIRE, DATA FIBER, CONDUIT AND ACCESS BOXES ENTIRELY, INCLUDING ALL BELOW GRADE COMPONENTS, ETC,. COORDINATE THE WORK WITH THE ELECTRICAL UTILITY AS NECESSARY, DO NOT PERFORM REMOVAL UNTIL NEW SERVICE OR OWNER ACCEPTED TEMPORARY POWER SERVICE AND / OR FIBER COMMUNICATIONS IS PROPERLY OPERATING.

D12 REMOVE ALL PERIMETER SHRUB/BUSHES PLANTINGS, ASSOCIATED MULCH BED AND ALL ORGANIC MATERIAL ENTIRELY

D13 REMOVE THE EXISTING ABANDONED OR ACTIVE STORM SEWER SYSTEM ENTIRELY, INCLUDING BUT NOT LIMITED TO; THE EXISTING BUILDING ROOF DRAIN LEADERS, CATCH BASINS, MANHOLES, YARD DRAINS, PIPING AND ALL UNSATISFACTORY SUBBASE MATERIAL. CAP AND FILL REMAINING ABANDONED PIPING OUTSIDE OF WORK AREA

D14 REMOVE THE EXISTING ABANDONED WATER SERVICE INCLUDING ALL PIPING AND UNSATISFACTORY SUBBASE MATERIAL. CAP AND FILL REMAINING ABANDON PIPING

D15 REMOVE THE EXISTING ABANDONED GAS SERVICE ENTIRELY INCLUDING ALL UNSATISFACTORY SUBBASE MATERIAL

D16 REMOVE THE EXISTING ABANDONED SANITARY SEWER SYSTEM TO A MINIMUM OF INCLUDING BUT NOT LIMITED TO; CATCH BASINS, MANHOLES, PIPING, TRAPS AND VENTS AND ALL UNSATISFACTORY SUBBASE MATERIAL

D17 EXISTING TREES ARE NOTED ON THE TOWN OF HAMBURG APPROVED SITE PLAN TO REMAIN. ALL EXISTING TREES TO REMAIN THAT ARE LOCATED WITHIN THE TEMPORARY FENCING SHALL HAVE PROTECTION FENCING LOCATED AT THE EDGE OF THE EXITING TREE CANOPY

GENERAL CONSTRUCTION NOTES:

A. ANY CHANGES OR DEVIATION FROM THIS DRAWING SHALL REQUIRE APPROVAL OF ZAXIS ARCHITECTURAL P.C. AND THE OWNER

B. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY NUSSBAUMER & CLARKE, INC.

C. DURING CONSTRUCTION THE CONTRACTOR SHALL ERECT AND MAINTAIN AS NECESSARY ALL TEMPORARY BARRICADES, SAFETY FENCING, CAUTION LIGHTS, OR SIGNAGE TO PROTECT THE WORK ACTIVITY AND TO ENSURE PUBLIC SAFETY AS DIRECTED BY THE OWNER.

D. ALL CONSTRUCTION OR EXCAVATION ACTIVITIES SHALL STRICTLY COMPLY WITH THE LATEST SAFETY STANDARDS AND REGULATIONS SET FORTH BY O.S.H.A., THE NEW YORK STATE HIGH VOLTAGE PROXIMITY ACT, AND NEW YORK STATE INDUSTRIAL CODE RULE 53.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION.

F. REMOVE SUBGRADE MATERIAL AS REQUIRED FOR INSTALLATION OF THE SITE FEATURES COORDINATE W/ OWNER'S GEOTECHNICAL ENGINEER FOR ANY REUSE OF MATERIAL IN PAVED AREAS.

G. THE CONTRACTOR SHALL EXAMINE THE SITE. EXISTING CONDITIONS NOT INDICATED TO BE REMOVED OR REUSED, WHETHER INTERFERING WITH NEW WORK OR NOT, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT IMMEDIATELY TO DETERMINE A COURSE OF ACTION.

H. ANY EXISTING CONDITIONS WHICH ARE INDICATED FOR DEMOLITION MUST BE REMOVED IN THEIR ENTIRETY IF THEY AFFECT NEW WORK.

I. ALL HOLES/TRENCHES ARE TO RECEIVE APPROVED COMPACTED FILL, TYPE 2 SUBBASE COURSE NYSDOT ITEM 304.12 AND COMPACTED TO 95% DENSITY, 8" MAXIMUM LIFTS.

J. CONTRACTOR SHALL SUBMIT A SCHEDULE INDICATING PROPOSED SEQUENCE OF OPERATION/WORK TO OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO START OF WORK. INCLUDE COORDINATION FOR SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED, TOGETHER WITH DETAILS FOR DUST AND NOISE CONTROL PROTECTION

K. CONTRACTOR SHALL SUBMIT PHOTOGRAPHS OF EXISTING CONDITIONS OF STRUCTURE SURFACES, EQUIPMENT, AND ADJACENT IMPROVEMENTS, THAT MIGHT BE CONSTRUED AS DAMAGED, RELATED TO REMOVAL OPERATIONS. PHOTOGRAPHS SHALL HAVE RECORDED DATES.

L. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES.

M. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO THE START OF OPERATIONS. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED DURING CONSTRUCTION.

N. CONTRACTOR SHALL CONDUCT OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.

O. CONTRACTOR SHALL REMOVE, TRANSPORT AND LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE AS REQUIRED BY LOCAL AUTHORITIES. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, CONTACT THE OWNER IMMEDIATELY AND COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OF ENVIRONMENTAL POLLUTION. CONTRACTOR SHALL PROVIDE MANIFEST LIST TO OWNER.

P. THE CONTRACTORS SHALL COORDINATE EXACT UTILITY CONNECTION LOCATIONS AND DEPTHS WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, H.V.A.C., AND PLUMBING PLANS.

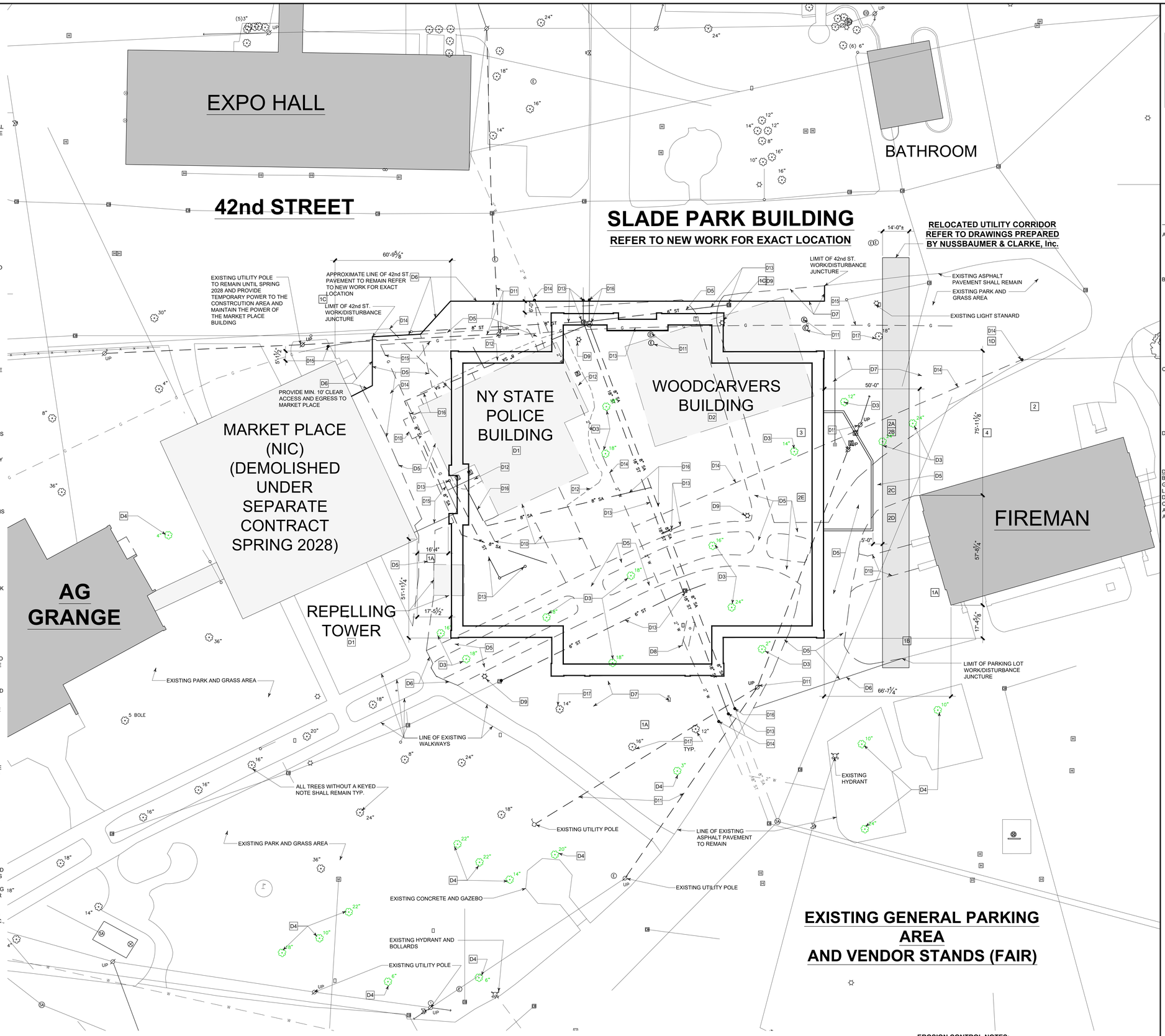
Q. THE CONTRACTOR SHALL CONTACT UNDERGROUND UTILITY LOCATION SERVICE: AT LEAST 72 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

R. THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITY DEPTHS AND LOCATIONS PRIOR TO EXCAVATION AND NOTIFY THE ARCHITECT AND OWNER OF ANY CONFLICTS. ZAXIS ARCHITECTURAL P.C. IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THIS PLAN OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE CONTRACTOR SHALL USE ALL MEANS POSSIBLE INCLUDING METAL DETECTORS, ELECTRONIC SENSORS, PRODDING, AND HAND EXCAVATION TO AVOID DISTURBING EXISTING BURIED UTILITIES ON SITE.

S. ANY SHORING AND BRACING FOR TRENCHES SHALL COMPLY WITH LATEST O.S.H.A. CODES AND SHALL BE MAINTAINED AND REMAIN IN PLACE UNTIL EXCAVATION IS COMPLETED. ALL SHORING AND BRACING WORK SHOULD BE SUPERVISED BY A QUALIFIED FOUNDATION OR GEOTECHNICAL CONSULTANT RETAINED BY THE OWNER.

T. ALL NEW UTILITIES; GAS, WATER, SEWER, TELEPHONE, DATA, CABLE TV, AND ELECTRICAL UTILITIES TO BE LOCATED, SIZED, AND BUILT IN COORDINATION WITH THE RESPECTIVE UTILITY AGENCIES AND OWNER REQUIREMENTS.

U. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL LOCATIONS BEFORE BEGINNING WORK AS REQUIRED BY APPLICABLE LAWS AND REGULATIONS.



SITE PREPARATION AND DEMOLITION PLAN

SCALE : 1" = 20'

0 20 40 80

EROSION CONTROL NOTES:

1. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRIERS (I.E. SILT FENCE, SILT SOCK, STONE AND DROP BLOCK INLET PROTECTION, ETC.) TO PREVENT EROSION OF THE SITE AND KEEP DEBRIS / SOILS FROM ENTERING THE STORM SEWER SYSTEM. ALSO PROVIDE NECESSARY DEVICES TO PREVENT DEBRIS AND "MUD" FROM ENTERING THE LOCAL ROAD SYSTEM.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

GENERAL UTILITY NOTES:

A. REFER TO NUSSBAUMER & CLARKE, INC CONSTRUCTION DOCUMENTS FOR ALL UTILITY LOCATIONS (EXISTING, NEW OR RELOCATED AND COORDINATE THE EXACT LOCATIONS WITH THE GENERAL UTILITY LOCATIONS SHOWN ON THIS DWG. C-101.

B. THE CONTRACTOR SHALL ENTIRELY REMOVE ALL REMAINING ABANDONED UTILITIES, INCLUDING BUT NOT LIMITED TO; PIPING, CONDUIT WIRING, UNSATISFACTORY TRENCH MATERIAL, ETC. AND FILL ALL TRENCHES, HOLES, ETC. WITH SELECT FILL AS SPECIFIED. LOCATED BELOW THE SLADE PARK BUILDING FOOTPRINT AREA, INCLUDING BUT NOT LIMITED TO; THE DUMPSTER AND GENERATOR ENCLOSURE AND ALL CONCRETE PAD WORK AND 5'-0" OUTSIDE OF THESE AREAS,

C. UNDER A SEPARATE CONTRACT ALL UTILITIES LOCATED BELOW THE SLADE PARK BUILDING FOOTPRINT AREA (AS NOTED ABOVE) SHALL BE RELOCATED AND OR RE-ROUTED AROUND THE SLADE PARK BUILDING. ALL PIPING, CONDUIT, ETC. WILL BE ABANDONED IN PLACE, AN BE THE RESPONSIBILITY OF THIS CONTRACT TO REMOVE.

D. ANY UTILITY FOUND TO BE LIVE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RELOCATION/ABANDONMENT WHICH WILL BE PERFORMED UNDER A SEPARATE CONTRACT

DIMENSIONING SHOWN TO ADJACENT BUILDINGS OR EDGES OF PAVEMENT ARE FOR GENERAL BUILDING LOCATION. THE EXACT LOCATION SHALL BE REFERENCED ON THE DOCUMENTS PREPARED BY NUSSBAUMER & CLARKE, INC. UNDER A SEPARATE CONTRACT AND COORDINATED WITH THE BUILDING OWNER AND ARCHITECT PRIOR STARTING WORK

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26
2	ISSUED FOR SITE PLAN APPROVAL	3-17-26

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DRAWING TITLE:

SITE PREPARATION AND DEMO PLAN

DATE: 2-18-26	DRAWING No.
SCALE: AS SHOWN	C-101
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	

KEYED CONSTRUCTION NOTES:

1 PROVIDE CONCRETE ENTRANCE PADS AND DELIVERY DRIVEWAYS. THICKNESS AS INDICATED.
BID ALTERNATE #1: PROVIDE HEATING SYSTEM FOR THE SELECTED CONCRETE PADS.
REFER TO MEP DRAWINGS FOR HEATING REQUIREMENTS
(1A) 4" CONCRETE PAD: HEATED
(1B) 4" CONCRETE PAD: NON-HEATED
(1C) 6" CONCRETE PAD: HEATED
(1D) 6" CONCRETE PAD: NON-HEATED

2 DUMPSTER AND EQUIPMENT ENCLOSURE
REFER TO THE FLOOR PLAN FOR ADDITIONAL DIMENSIONS AND MAN-DOOR INFORMATION
NOTE THE FOLLOWING:
(2A) GATES: PROVIDE THREE 8'-0" WIDE X 8'-0" HIGH GATES. REFER TO DETAIL ON DWG C-201
PROVIDE BOLLARDS AS FOLLOWS:
TWO BEHIND EACH DUMPSTER - COORDINATE WITH OWNER EXACT LOCATIONS
ONE AT EACH GATE POST - INCLUDING ONE ADJACENT TO THE SPEC-BRIK WALL
(2B) GREASE INTERCEPTOR REFER TO PLUMBING DRAWINGS
(2C) GENERATOR: BID ALTERNATE #2 REFER TO ELECTRICAL DRAWINGS
BASE SCOPE OF WORK SHALL INCLUDE GAS LINES AND ELECTRICALLY CONDUIT FOR FUTURE INSTALLATION - INSTALL IN FLUSH BOX(ES)
(2D) TRANSFORMER: REFER TO ELECTRICAL DRAWINGS: PROVIDE 6" HIGH CONCRETE HOUSE KEEPING PAD ABOVE THE ADJACENT CONCRETE PAD.
(2E) CONDENSER UNITS: REFER TO MECHANICAL DRAWINGS

3 CATCH BASIN: SLOPE CONCRETE WITHIN THE DUMPSTER AND EQUIPMENT ENCLOSURE TO THE CATCH BASIN AT 1% - 1.5% SLOPE
NOTE: SLOPE ALL OTHER CONCRETE PADS AWAY FROM THE BUILDING AT 1.5% +/- REFER TO THE CIVIL AND LANDSCAPE DESIGN DRAWINGS PREPARED UNDER A SEPARATE CONTRACT

4 ELECTRICAL SERVICE FOR FIREMAN'S BUILDING. LOCATE THE EXISTING UNDERGROUND CONDUIT SERVICE. RECONNECT THE FIREMAN'S BUILDING SERVICE TO THE SLADE PARK BUILDING SYSTEM REFER TO ELECTRICAL DRAWINGS

LEGEND

— D — D —	UNDER GROUND FIBER - DATA LINE
—OH—OH—	OVERHEAD ELECTRIC/DATA LINES
—UE—UE—	UNDER GROUND ELECTRIC AND DATA LINES
—G—G—	UNDERGROUND GAS LINE
—W—W—	DOMESTIC WATER LINE
—FP—FP—	FIRE PROTECTION WATER LINE
—SS—SS—	SANITARY SEWER
—GSS—GSS—	GREASE WASTE SANITARY SEWER
—ST—ST—	STORM SEWER
• CO	CLEAN-OUT
• RDL	ROOF DRAIN LEADER
	CONCRETE PAVEMENT REFER TO DETAILS THICKNESS VARIES HEATED AND NON-HEATED

EXPO HALL

42nd STREET

BATHROOM

FIREMAN

AG GRANGE

EXISTING GRASS AREA FAIR VENDORS

EXISTING WALKING PATH

EXISTING GRASS AREA FAIR VENDORS

4'-4"

BUILDING ENTRANCE (NOTE APPROX. DIM. VIF W/ ARCHITECT)

50'-0" EDGE OF ASPHALT PAVEMENT

EDGE OF EXISTING ASPHALT PAVEMENT TO REMAIN

EDGE OF EXISTING ASPHALT PAVEMENT
REFER TO CIVIL DRAWINGS UNDER A SEPARATE CONTRACT FOR FUTURE MODIFICATIONS (NIC)

196'-4"

NIC

12'-0"

6" Ø PVC (NON-PERF) REFER TO CIVIL DRAWINGS FOR CONTINUATION TO AND CONNECTION WITH THE EXISTING STORM SEWER SYSTEM

LINE OF NEW /MODIFIED ASPHALT PAVEMENT PARALLEL WITH BUILDING FACADE SAWCUT THE EXISTING ASPHALT PAVEMENT. COORDINATE THE FINISHED GRADE AND PROVIDE ASPHALT PAVEMENT FLUSH WITH THE BUILDING ENTRANCE REFER TO LANDSCAPE DRAWINGS FOR ADJACENT GRADING

25'-4"

6" REINFORCED CONCRETE ENTRANCE PAD (TRAFFIC) HEATED 1C

6'-0"

1C 6" REINFORCED CONCRETE ENTRANCE PAD (TRAFFIC) HEATED

EDGE OF EXISTING ASPHALT PAVEMENT

JUNCTURE OF EXISTING ASPHALT PAVEMENT TO REMAIN

4" Ø PERF. PVC PERIMETER DRAINAGE PIPE TYP.

6" Ø PVC (NON-PERF) BELOW CONCRETE PAD & CONNECTION TO STORM SEWER

6" REINFORCED CONCRETE PAD (TRAFFIC DELIVERY - DUMPSTER AND GENERATOR) NOT - HEATED 1D

TRENCH DRAIN. REFER TO PLUMBING DRAWINGS

4" Ø PERF. PVC PERIMETER DRAINAGE PIPE TYP.

EXTEND WATER, UNDERGROUND ELECTRICAL AND FIBER AS NOTED ON MEP DRAWINGS - COORDINATE WITH CIVIL AND LANDSCAPE DRAWINGS

4" Ø PERF. PVC PERIMETER DRAINAGE PIPE TYP.

FIBER (3) 4" IN
3" W
6" FP
2" GAS

31'-0"

8'±

7'-0"

EXISTING POLE TO REMAIN OVERHEAD POWER TO TRANSITION UNDERGROUND AND TEMPORARY FIBER

FUTURE PARK WALKWAY AND LANDSCAPE FEATURE (NIC)

PARK AND GRASS AREA REFER TO LANDSCAPE DRAWINGS UNDER A SEPARATE CONTRACT

EXISTING WALKING PATH

150'-8"

20'-0"

15'-0"

ENTRY

VENDOR OVERHEAD DOOR ENTRY

RDL

REFER TO DRAWING ___ ENLARGED DUMPSTER/GENERATOR ENCLOSURE DETAILS

DELIVERY ENTRY OVERHEAD DOOR

IT ROOM

KITCHEN

(3) UE
GSS

KITCHEN DELIVERY

TOILET ROOM

12" SPEC BRIK ENCLOSURE FOR DUMPSTER, TRANSFORMER AND GENERATOR W/ (2) DOORS AND (3) 8'-0" WIDE WOOD GATES 2

FIREMAN'S ELECTRICAL SERVICE 4

2A 2B 2C 2D 2E 3

10'-4"

26'-0"

37'-0"

50'-0"

5'-0"

8'-0"

24'-8"

4" CONC PAD ENTRANCE (NON-TRAFFIC) HEATED 1A

4" Ø PERF. PVC PERIMETER DRAINAGE PIPE TYP.

ROOF DRAIN LEADER (RDL) COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS TYP

(FINISHED FLOOR = 797.00 ±) REFER TO GRADING PLAN PREPARED UNDER SEPARATE CONTRACT FOR EXACT FINISHED GRADE ELEVATION

4" CONCRETE SIDEWALK (NON-TRAFFIC) HEATED 1A

4" CONC PAD ENTRANCE (NON-TRAFFIC) NOT HEATED 1B

12'-0"

10'-0"

NIC

4'1-9/2"

3/2"

FUTURE HYDRANT (NIC)

FUTURE PEDESTRIAN WALKING PATH (NIC)

50'-0"

15'-0"

4" CONCRETE PAD ENTRANCE (NON-TRAFFIC) 1A HEATED

NIC SIDEWALK CONNECTION REFER TO LANDSCAPE DRAWINGS TYP

FIBER (2) 4" OUT W/HAND-HOLD

FUTURE PARK WALKWAY AND LANDSCAPE FEATURE (NIC)

CONNECT 4" Ø PERFORATED PVC TO 6" Ø PVC (NON-PERF) REFER TO CIVIL DRAWINGS FOR CONTINUATION TO AND CONNECTION WITH THE EXISTING STORM SEWER SYSTEM TYP.

CONNECT 4" Ø PERFORATED PVC TO 6" Ø PVC (NON-PERF) REFER TO CIVIL DRAWINGS FOR CONTINUATION TO AND CONNECTION WITH THE EXISTING STORM SEWER SYSTEM TYP.

FUTURE PEDESTRIAN WALKING PATH (NIC)

FUTURE CONCRETE SIDEWALK W/ INTEGRAL FLUSH CURB (NIC)

EDGE OF EXISTING ASPHALT PAVEMENT

EDGE OF EXISTING ASPHALT PAVEMENT
REFER TO CIVIL DRAWINGS UNDER A SEPARATE CONTRACT FOR FUTURE MODIFICATIONS (NIC)

SLADE PARK BUILDING

32,850±SF

NATURAL GAS EXITS BLDG. TO GENERATOR REFER TO MEP DWG'S

EXISTING GENERAL PARKING AREA AND VENDOR STANDS (FAIR)

SITE LAYOUT PLAN

SCALE : 1" = 20'-0"

0 20 40 80

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

SLADE PARK BUILDING

DIMENSIONING SHOWN TO ADJACENT BUILDINGS OR EDGES OF PAVEMENT ARE FOR GENERAL BUILDING LOCATION. THE EXACT LOCATION SHALL BE REFERENCED ON THE DOCUMENTS PREPARED BY NUSSBAUMER & CLARKE, INC. UNDER A SEPARATE CONTRACT AND COORDINATED WITH THE BUILDING OWNER AND ARCHITECT PRIOR STARTING WORK

GENERAL UTILITY NOTES:
A. NEW UTILITIES SHALL EXTEND 5'-0" FROM THE BUILDING FACE TYPICAL. EXCEPTION: WHERE NEW UTILITIES EXIT/ENTER THE BUILDING BELOW A CONCRETE PAD, THE UTILITY SHALL EXTEND 5'-0" BEYOND THE CONCRETE PAD. UNDER A SEPARATE CONTRACT EACH UTILITY SHALL BE CONNECTED TO THE OWNERS MAIN SERVICE

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26
2	ISSUED FOR SITE PLAN APPROVAL	3-17-26

ZAXIS
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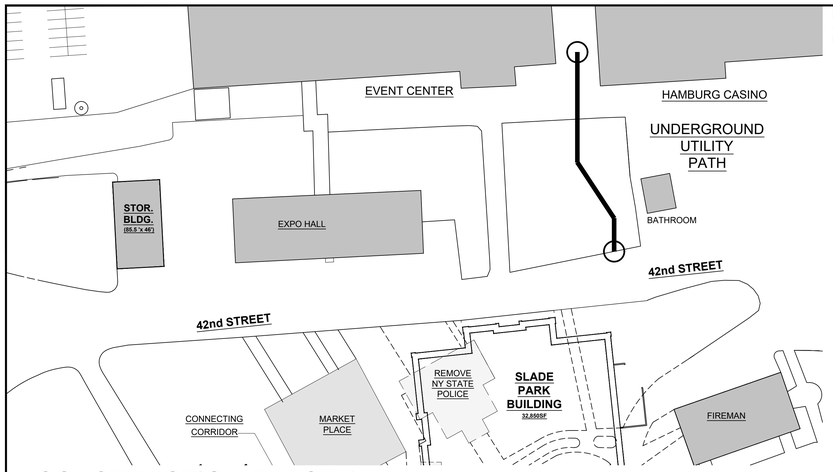
DRAWING TITLE:

SITE LAYOUT PLAN

DATE: 2-18-26
SCALE: AS SHOWN
DRAWN BY: DHH
CHECKED BY:
PROJECT No: 23-006

DRAWING No.
C-102

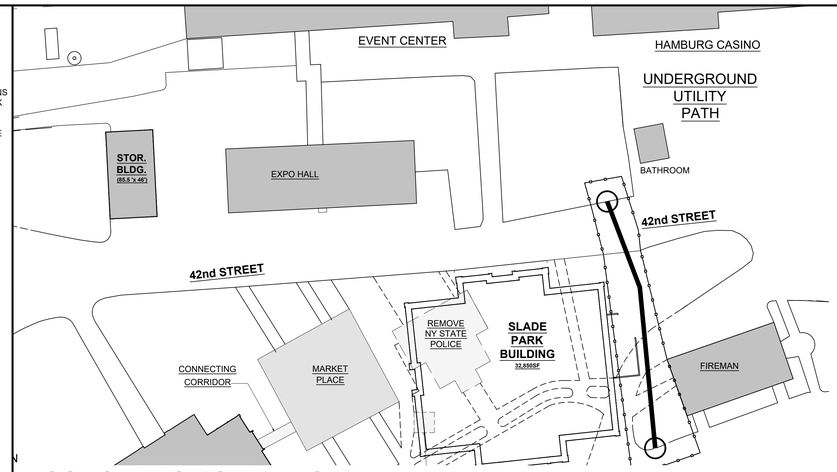


CONSTRUCTION PHASE 1:

SCALE : 1" = 60'

PHASE 1 - COMPLETED - CONSTRUCTION NOTES
CASINO AND EVENT CENTER UTILITY CROSSING
DATE: END FAIR 2026 TO SEPT. 9, 2026

1. CONTRACTOR (KANDY CO.) WILL PERFORM OPEN EXCAVATION VACUUM ASSIST METHOD, EXPOSE ALL EXISTING UTILITIES, PERFORM WATER LINE TAPS FOR BOTH DOMESTIC AND FIRE PROTECTION AND INSTALL CONDUITS FOR FUTURE CONNECTIONS OF POWER, FIBER AND NATURAL GAS FOR THE NEW SLADE PARK BUILDING
2. WORK SHALL EXTEND FROM THE EVENT CENTER/CASINO TO THE EAST SIDE OF 42ND STREET.



CONSTRUCTION PHASE 2:

SCALE : 1" = 60'

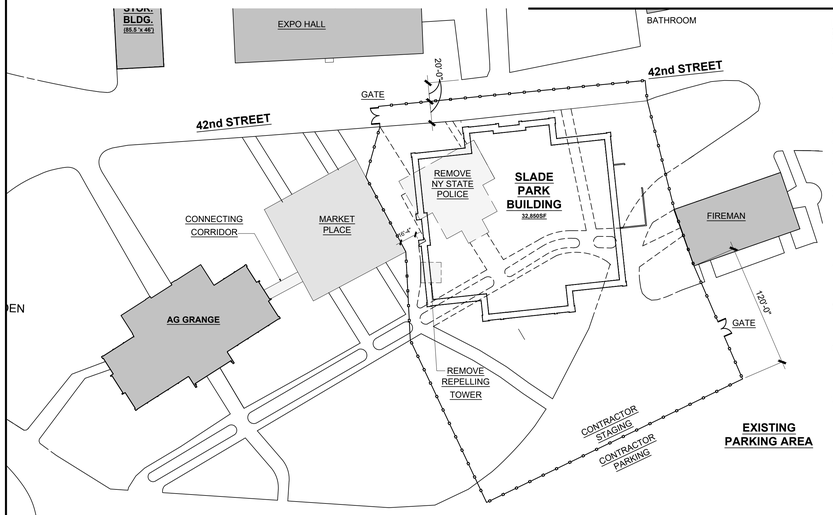
PHASE 2 CONSTRUCTION NOTES
TO BE COMPLETED UNDER A SEPARATE CONTRACT
SLADE PARK AND 42ND STREET UTILITY RELOCATION
DATE: DECEMBER 2026 - APRIL 2027

1. WORK SHALL BE COMPLETED PRIOR TO CHRISTMAS IN THE COUNTRY EVENT
2. SITE CONTRACTOR WILL RELOCATE ALL IN CONFLICT WITH THE NEW SLADE PARK BUILDING AND RE-ROUTE. ALL UTILITIES WILL BE IMPACTED. THE FOLLOWING WILL BE RELOCATED BETWEEN THE FIREMAN'S BUILDING AND THE NEW BUILDING IN SLADE PARK:
   - DOMESTIC WATER
   - STORM SEWER
   - SANITARY SEWER

   NATURAL GAS SERVICE: TO BE RELOCATED WITHIN 42ND STREET
   - TEMPORARY NATURAL GAS TO BE PROVIDE FOR THE MARKET BUILDING

   ELECTRICAL SERVICE: WILL BE SHIFTED FROM ABOVE GROUND TO UNDERGROUND ALONG 42ND ST. NEAR THE AG GRANGE BLDG. AND ON THE NORTH SIDE OF THE EXPO BLDG TO THE EVENT CENTER. THE EXISTING UNDERGROUND FAIR VENDOR CONNECTIONS WILL ALSO BE REALLOCATED

   FIBER: WILL BE RUN UNDERGROUND FROM THE EXISTING COMMUNICATIONS BANK EAST OF THE EVENT CENTER/CASINO TO THE WEST SIDE OF THE NEW SLADE PARK BUILDING, INTO THE NEW BUILDING IT ROOM AND EXIT THE BUILDING ON THE EAST END. THEN EXTENDED AND CONNECTED WITH THE EXISTING NETWORK
   - TEMPORARY FIBER WILL BE RUN OVERHEAD ALONG EXISTING POLES FROM THE EVENT CENTER TO THE AG GRANGE, 2 OR 3 TEMPORARY POLES ARE TO BE ERECTED THROUGH THE PARK. THIS TEMPORARY LINE SHALL BE REMOVED ONCE THE PERMANENT SYSTEM IS OPERATIONAL
3. TEMPORARY BARRICADES TO BE COORDINATED WITH THE OWNER

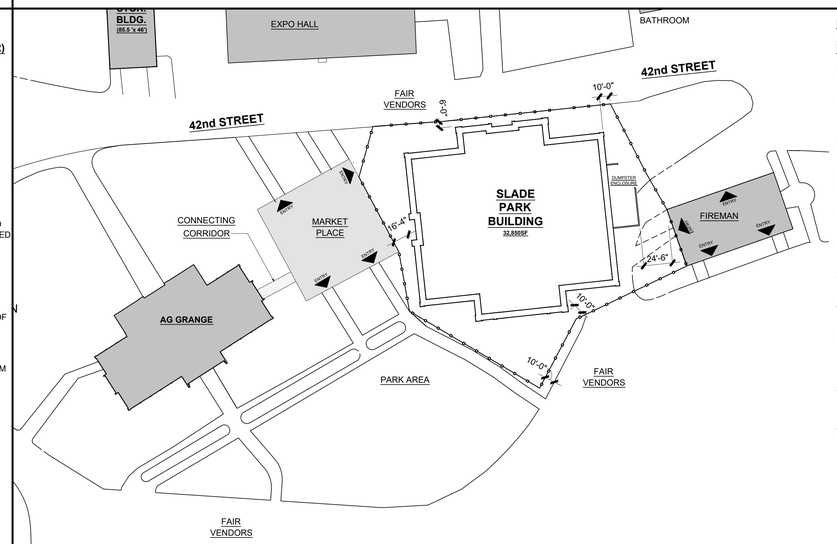


CONSTRUCTION PHASE 3:

SCALE : 1" = 60'

PHASE 3 CONSTRUCTION NOTES
SLADE PARK AND 42ND STREET UTILITY RELOCATION
DATE: APRIL 1, 2027 (SPRING) TO AUGUST 1, 2027 (FAIR)

1. START FOUNDATION EXCAVATION/INSTALLATION WHEN THE WEATHER BREAKS
2. THE NEW BUILDING SHALL BE FULLY ENCLOSED AND WEATHER TIGHT, INCLUDING BUT NOT LIMITED TO:
   - FULLY COMPLETED AND SHINGLED ROOF,
   - ALL STRUCTURAL STEEL AND TRUSSES
   - EXTERIOR CMU WALLS AND INTERIOR LOAD BEARING WALLS.
   - WINDOWS AND DOORS
   - DUMPSTER AND GENERATOR ENCLOSURE WITH GATES
   - 42ND STREET PAVEMENT MODIFICATION SHALL BE COMPLETE
3. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE WITH LOCKABLE GATES. THE SIZE OF OF THE ENCLOSURE SHALL BE COORDINATED WITH THE OWNER AND ENCOMPASS ALL CONTRACTOR TRAILERS, MATERIAL STAGING AND STORAGE AND TEMPORARY RESTROOMS. NO CONTRACTOR ITEMS ARE ALLOWED TO BE STORED OUTSIDE THE CONSTRUCTION FENCE AREA.
4. ALL TEMPORARY CONSTRUCTION UTILITIES SHALL BE LOCATED WITHIN THE CONSOLIDATED TEMPORARY PHASE 4 (FAIR 2027) FENCED AREA TO AVOID CONFLICT WITH PHASE 4 FAIR.
5. ON 42ND ST. MAINTAIN A MINIMUM OF 20' CLEAR FOR OWNER ACCESS BETWEEN THE CONSTRUCTION FENCE AND THE EDGE OF EXISTING PAVEMENT.
6. THE OWNER WILL OCCUPY AND HOST VARIOUS EVENTS WITHIN THE MARKET PLACE BUILDING. MAINTAIN CLEAR ENTRY AND EGRESS PATHS FOR OPERATION AND EMERGENCY ACCESS FROM ALL EXISTING DOORS
7. THE FIREMAN'S BUILDING WILL NOT BE OCCUPIED DURING CONSTRUCTION, BUT OWNER ACCESS IS NECESSARY, COORDINATE ENTRY CLOSURE(S)

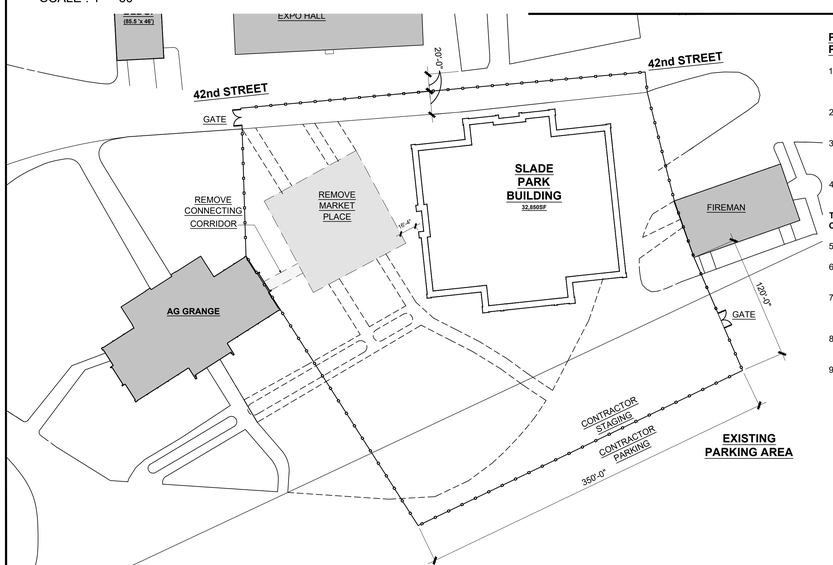


CONSTRUCTION PHASE 4:

SCALE : 1" = 60'

PHASE 4 CONSTRUCTION NOTES
AUGUST 2 - SEPT 30, 2027
FAIR 2027 RUNS AUGUST 11 THRU 22, 2027

1. WORK SHALL STOP ON OR BEFORE AUGUST 1, 2027 TO PREPARE FOR THE 2027 ERIE COUNTY FAIR.
2. PRIOR TO AUGUST 7TH, CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES - AS DIRECTED BY THE OWNER - TO CONSOLIDATE THE WORK AREA FOR FAIR 2027 USE.
3. THE SLADE PARK BUILDING SHALL BE LOCATED WITH NO PUBLIC ACCESS - TEMPORARY OWNER ACCESS SHALL BE PROVIDED
4. CONSTRUCTION FENCE WITH LOCKABLE GATES
   - THE CONTRACTOR SHALL BE CONSOLIDATED (PHASE 4 -FAIR) AS SHOWN ON THE PLAN. ALL FENCING AND GATES SHALL BE SECURED TO PREVENT PUBLIC ACCESS
   - ALL CONSTRUCTION TRAILERS, EQUIPMENT, TEMPORARY TOILET ROOMS AND UNUSED MATERIALS SHALL BE REMOVED FROM THE SITE.
   - STORAGE WITHIN THE BUILDING OF UNUSED MATERIALS SHALL BE AGREED UPON WITH THE OWNER.
5. ALL TEMPORARY CONSTRUCTION UTILITIES SHALL BE SECURED AND LEFT IN A SAFE INACCESSIBLE MANOR
6. TEMPORARY DISPLAY SIGNAGE SHALL BE INSTALLED ON THE CONSTRUCTION FENCE BY THE OWNER
7. THE CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL POWER AND WATER FOR THE FAIR VENDORS ALONG 42ND STREET, TO MATCH THE EXISTING SERVICE DISTURBED BY THE CONSTRUCTION
8. THE CONTRACTOR SHALL PATCH ANY PAVEMENT ON THE WEST SIDE OF SLADE PARK THAT IS DAMAGED BY CONSTRUCTION WORK FOR A SMOOTH LEVEL SURFACE FOR FAIR 2027 USE
9. THE CONTRACTOR SHALL TEMPORARY ROUGH GRADE THE DISTURBED GRASS/PARK AREAS OUTSIDE THE CONSOLIDATED FENCE AREA AND PROVIDE LEVEL (DRAINING) WALKING SURFACE ACCEPTABLE TO THE OWNER FOR FAIR 2027 USE



CONSTRUCTION PHASE 5:

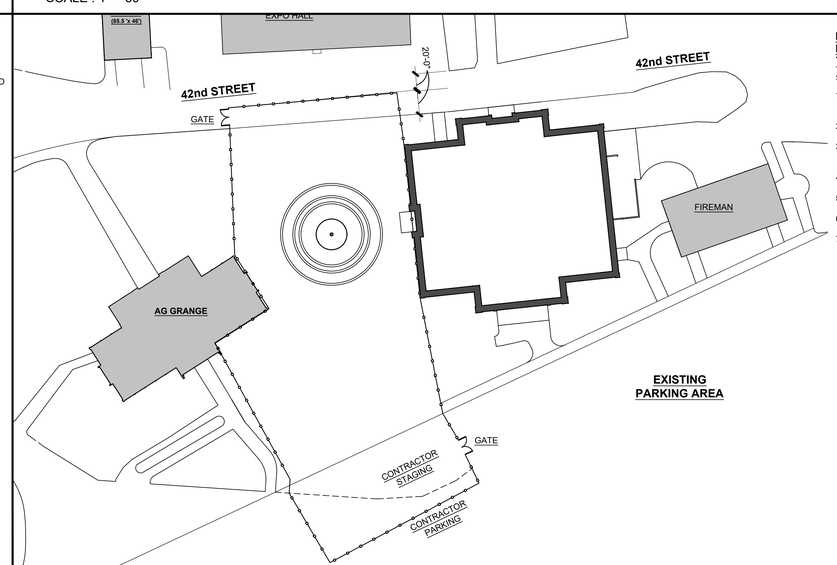
SCALE : 1" = 60'

PHASE 5 CONSTRUCTION NOTES
POST FAIR 2027 SEPT. 1 - MAY 31, 2028

1. THE CONTRACTOR SHALL RESTART WORK BY SEPT. 1, 2007 AND REESTABLISH THE BOUNDARY OF THE CONSTRUCTION FENCE AND CONTINUE ALL WORK.
2. SUBSTANTIAL COMPLETE OF THE SLADE PARKING BUILDING: MAY 1, 2028
3. REMOVE THE CONSTRUCTION FENCE AROUND THE SLADE PARK BUILDING COMPLETED WORK AREA AND ADJUST PERIMETER TO SECURE FOR THE REMAINING PHASE 6 WORK.
4. FINAL COMPLETION OF ALL BUILDING WORK SHALL BE PRIOR TO MAY 31, 2028 MEMORIAL DAY FOR A GRAND OPENING EVENT

THE FOLLOWING WORK SHALL BE COMPLETED UNDER A SEPARATE CONTRACT

5. DEMOLISH MARKET PLACE BUILDING.
6. INSTALL CONCRETE FOUNDATIONS FOR ALL SEAT WALLS, PERGOLA AND WATER FEATURES
7. REMOVE EXISTING SLADE PARK PEDESTRIAN WALKWAYS AND ASSOCIATED LIGHTING AND AND ESTABLISH THE NEW WALKWAY PATHS
8. COMPLETE VEHICLE DELIVERY PATHS TO THE SLADE PARK BUILDING, ASSOCIATED LIGHTING AND PERIMETER LANDSCAPING
9. COMPLETE ALL SITE UTILITY WORK; INCLUDING FINAL BUILDING CONNECTIONS, PEDESTRIAN AND PARKING LIGHTING AND FAIR VENDOR CONNECTION POINTS



CONSTRUCTION PHASE 6:

SCALE : 1" = 60'

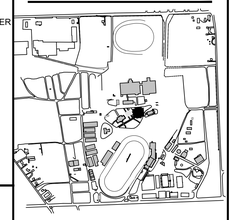
PHASE 6 CONSTRUCTION NOTES
LANDSCAPE DESIGN FEATURES
TO BE COMPLETED UNDER A SEPARATE CONTRACT
APRIL 1, 2028 (SPRING) - AUGUST 1, 2028 (FAIR)

1. INSTALL ALL SLADE PARK LANDSCAPE DESIGN FEATURES INCLUDING ALL PEDESTRIAN PATH MODIFICATIONS
2. COMPLETE SLADE PARK / PARKING LOT RE-ALIGNMENT
3. ADJUST CONSTRUCTION FENCING TO INCORPORATE ALL SLADE PARK WORK REFER TO PLAN
4. COMPLETE ALL UTILITY RECONFIGURATIONS / MODIFICATIONS
5. COMPLETE IRRIGATION SYSTEM MODIFICATIONS
6. FINAL COMPLETION FOR ALL LANDSCAPE PLANTINGS JULY 1, 2028
7. FINAL COMPLETION OF ALL SLADE PARK WORK SHALL BE PRIOR TO AUGUST1, 2028. FAIR 2028 STARTS ON AUGUST 9TH.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING



KEY PLAN

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

Z a x i s
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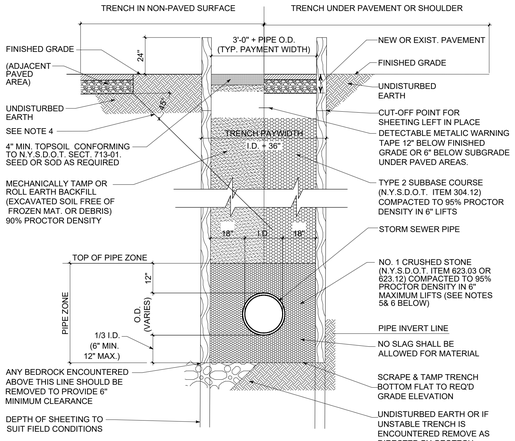
DRAWING TITLE:

SITE
PHASING PLAN

DATE: 3-17-26	DRAWING No.
SCALE: AS SHOWN	C-103
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	

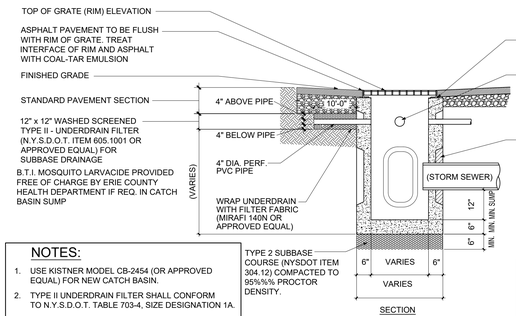


STORM TRENCH

SCALE 1/2" = 1'-0" — 18

STORM SEWER NOTES:

1. MAINTAIN 18" BETWEEN PIPE AND INSIDE FACE OF TEMPORARY SHEETING. IF SHEETING EXTENDS BELOW PIPE INVERT AS SHOWN, WHEN PVC PIPE IS USED, COMPACT MATERIAL BEFORE PULLING THE SHEETING.
2. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.
3. SHEETING OR SHORING SHALL BE REQUIRED PER O.S.H.A. STANDARDS FOR WORKER SAFETY AND PROTECTION OF TRENCH AREA. ALL SHORING AND TRENCHING SHALL BE DONE AS DIRECTED BY THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER AND SHALL REMAIN IN PLACE UNTIL ALL TRENCHING OPERATIONS ARE COMPLETED.
4. SELECT FILL (N.Y.S.D.O.T. ITEM 304.12) IS REQUIRED BENEATH NON-PAVED AREAS ADJACENT TO PAVED AREAS IF THE 45° LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
5. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201.
6. PIPE BEDDING AND TRENCH BACKFILL BENEATH SWALE AND DETENTION BASIN AREAS SHALL BE CLAY OR NATIVE BACKFILL COMPACTED TO 95% PROCTOR DENSITY INSTEAD OF NO. 1 CRUSHED STONE TO ELIMINATE THE POSSIBILITY OF PIPE UNDERMINING DUE TO SEEPAGE THROUGH THE PIPE ZONE.



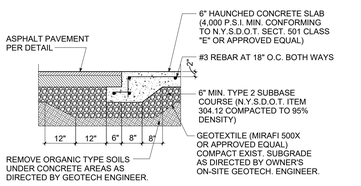
NOTES:

1. USE KISTNER MODEL CB-2454 (OR APPROVED EQUAL) FOR NEW CATCH BASIN.
2. TYPE II UNDERDRAIN FILTER SHALL CONFORM TO N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1A.

   OPTIONAL: USE WASHED SCREENED PEA GRAVEL (N.Y.S.D.O.T. ITEM 623.01 OR 623.10) CONFORMING TO N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1A, MATERIAL DESIGNATION 703-0203.

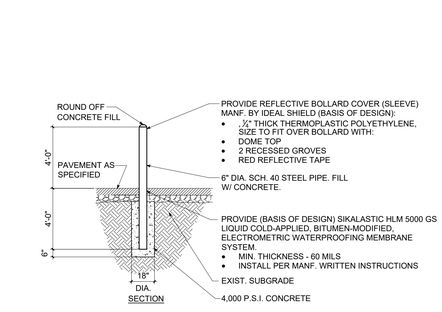
CATCH BASIN DETAIL

SCALE 1/2" = 1'-0" — 15



CONCRETE / ASPHALT PAVEMENT JOINT

SCALE : N.T.S. — 6



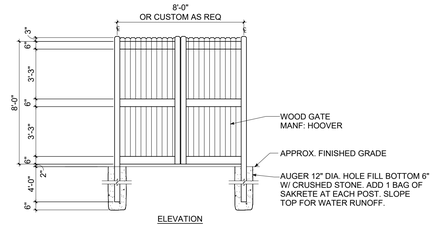
IF NECESSARY, ADJUST GRATES TO FIN. GRADE WITH KISTNER MH-RR6 (OR APPROVED EQUAL) EXTENSION RINGS. (A) THE JOINTS BETWEEN THE C.B. STRUCTURE AND THE EXTENSION RINGS SHALL BE MORTARED IN PLACE, (B) THE INDIVIDUAL RINGS SHALL NOT EXCEED 6" IN THICKNESS. THE TOTAL NUMBER PLACED SHALL BE LIMITED TO 2 OR A MAXIMUM OF 12" IN HEIGHT.

CATCH BASIN COVER DETAIL

SCALE : N.T.S. — 14

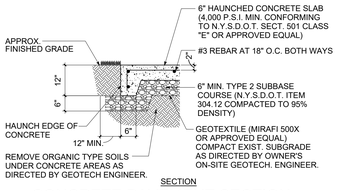
NOTES:

1. VEHICLE SWING GATES SHALL BE (BASIS OF DESIGN)
   - MANF: HOOVER FENCE CO.
   - MODEL: INDUSTRIAL DOUBLE SWING GATE
   - WIDTH: PAIR OF 4'-0" WIDE GATES
   - HEIGHT : 8'-0"
   - 2" GALV . SQUARE 120 FRAMES (CL-SQ-FRAME-IND-DBL)
   - ALL METAL COMPONENTS ARE GALVANIZED COATED BY MANF.
   - PROVIDE CENTER HORIZONTAL AND VERTICAL BRACES
   - PROVIDE ALL TENSION BARS, GATE CLIPS, HINGES, LATCHES, LOCKS AND DROP RODS AND ALL OTHER NECESSARY ACCESSORIES
   - LINE POSTS SHALL BE MIN. 2.875" OUTER DIAMETER. W/ CAP POSTS SET IN CONCRETE MIN. 4000 PSI FOUNDATIONS 4'-0" BELOW FINISHED GRADE COORDINATE LOCATION WITH SPEC-BRIK WALL END.
   - VERTICAL WOOD PRIVACY SLATS



WOOD GATE ELEVATION

SCALE : N.T.S. — 6



NOTES

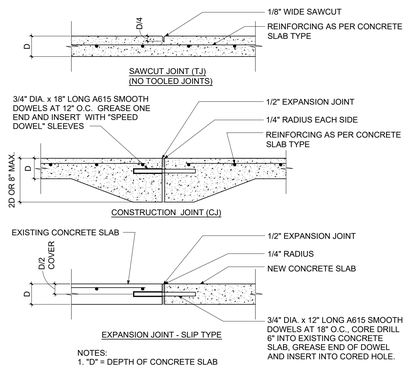
1. ALL CONCRETE PADS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 502-3.
2. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER WITH TOOLED TRANSVERSE CONTROL JOINTS 1-1/2 INCHES DEEP. SEAL ALL JOINTS WITH ASPHALT CEMENT (N.Y.S.D.O.T. SPECIFICATION 702-0700.
3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND SHALL HAVE A 1/4-INCH EDGE RADIUS. ALL SIDEWALK EDGES SHALL BE TOOLED.
4. INSTALL 1/2-INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS AND AT INTERFACE BETWEEN SIDEWALK AND BUILDING WALLS.

CONCRETE PAVEMENT SECTION

SCALE : N.T.S. — 3

BOLLARD DETAIL

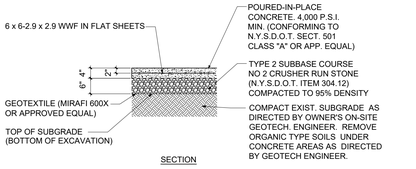
SCALE : N.T.S. — 4



NOTES:
1. "D" = DEPTH OF CONCRETE SLAB

TYPICAL CONCRETE JOINTS

SCALE : N.T.S. — 11

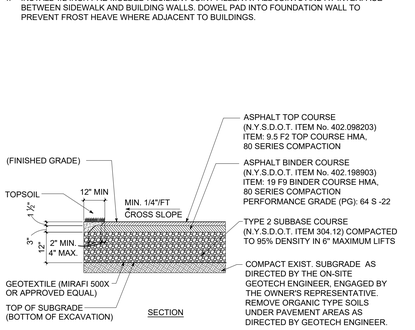


NON-VEHICLE TRAFFIC SIDEWALK & CONCRETE PAD DETAIL

SCALE : N.T.S. — 2

CONCRETE NOTES

1. ALL CONCRETE FOR SIDEWALKS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 608-3.
2. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER WITH TOOLED TRANSVERSE CONTROL JOINTS 1-1/2 INCHES DEEP.
3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND SHALL HAVE A 1/4 INCH EDGE RADIUS. ALL SIDEWALK EDGES SHALL BE TOOLED.
4. INSTALL 1/2 INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL JOINTS AND AT INTERFACE BETWEEN SIDEWALK AND BUILDING WALLS. DOWEL PAD INTO FOUNDATION WALL TO PREVENT FROST HEAVE WHERE ADJACENT TO BUILDINGS.



ASPHALT PAVEMENT DETAIL

SCALE : N.T.S. — 1

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ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

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DRAWING TITLE:

SITE DETAILS

DATE: 11-9-26	DRAWING No.
SCALE: AS SHOWN	C-201
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	

STRUCTURAL SYMBOLS LEGEND

TOP OF FOOTING ELEVATION

LATERAL FRAME MOMENT CONNECTION

GRAVITY MOMENT CONNECTION

B-X — SOIL BORING LOCATION & NUMBER

SIM / 1 / A101 — STRUCTURAL SECTION

SIM / 1 / A101 — STRUCTURAL ELEVATION

SIM / 1 / A101 — DETAIL CALLOUT

ONE-WAY SPAN DIRECTION

TWO-WAY SPAN DIRECTION

STEP IN ELEVATION

RAMP DOWN

RAMP UP

STRUCTURAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ADJ	ADJACENT	LLH	LONG LEG HORIZONTAL
ADDL	ADDITIONAL	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LP	LOW POINT
AB	ANCHOR BOLT	LW	LIGHT WEIGHT
ARCH	ARCHITECT	MO	MASONRY OPENING
BRG	BEARING	MAX	MAXIMUM
CLR	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MP	MASONRY PIER
CONST JT	CONSTRUCTION JOINT	NIC	NOT IN CONTRACT
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CU YD	CUBIC YARD	NS	NEAR SIDE
DIA	DIAMETER	OC	ON CENTER
DIM	DIMENSION	OF	OUTSIDE FACE
DWG	DRAWING	P	PIER (CONCRETE)
EF	EACH FACE	PL	PLATE
EL	ELEVATION	R	RADIUS
EOD	EDGE OF DECK	RD	ROOF DRAIN
EOS	EDGE OF SLAB	RO	ROUGH OPENING
EQ	EQUAL	SC	SLIP CRITICAL
ES	EACH SIDE	SIM	SIMILAR
EW	EACH WAY	SOG	SLAB ON GRADE
EXIST	EXISTING	STD	STANDARD
EXP	EXPANSION	SYMM	SYMMETRICAL
FS	FAR SIDE	T&B	TOP & BOTTOM
FTG	FOOTING	TOL	TOP OF LEDGE
GA	GAUGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TOW	TOP OF WALL
GB	GRADE BEAM	TRANS	TRANSVERSE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HIGH POINT	VIF	VERIFY IN FIELD
HSS	HOLLOW STRUCTURAL SECTION	VERT	VERTICAL
IF	INSIDE FACE	WP	WORK POINT
JT	JOINT	WD	WOOD
L	ANGLE	WWF	WELDED WIRE FABRIC

GENERAL NOTES

1 THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE "2025 BUILDING CODE OF NEW YORK STATE."

2 THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE LOADS INDICATED IN THE STRUCTURAL DESIGN CRITERIA.

3 CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION AND THE FABRICATION OF ANY MATERIALS. NOTIFY ENGINEER OF ANY EXISTING CONDITION DISCREPANCIES.

4 THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION OF THE BUILDING HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLEY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO ALL RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, TEMPORARY BRACING, SHORING, FORMS, USE OF EQUIPMENT AND SIMILAR CONSTRUCTION PROCEDURES. LACK OF COMMENT ON THE PART OF THE ENGINEER WITH REGARD TO CONSTRUCTION PROCEDURES IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE PROCEDURES.

5 THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, PROVIDING AND INSTALLING ALL TEMPORARY SHORING THAT IS REQUIRED DURING CONSTRUCTION.

6 JOB SITE SAFETY AND CONSTRUCTION MEANS AND METHODS ARE SOLEY THE RESPONSIBILITY OF THE CONTRACTOR. REVIEW OF THE CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH THE DESIGN ASPECTS ONLY, NOT TO REVIEW THE CONTRACTOR'S PROVISIONS FOR JOB SITE SAFETY AND CONSTRUCTION PROCEDURES. LACK OF COMMENT BY THE ENGINEER IS NOT TO BE INTERPRETED AS APPROVAL.

7 LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER NON-STRUCTURAL DISCIPLINES ARE SHOWN FOR REFERENCE ONLY. THESE PLANS DO NOT SHOW THE FULL SCOPE OF OPENINGS IN ROOFS, FLOORS AND WALLS. FOR SIZE AND LOCATION OF ALL OPENINGS SEE ARCHITECTURAL AND MEP DRAWINGS. THE CONTRACTOR SHALL OBTAIN FROM THE MEP AND OTHER TRADES THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS WHETHER SHOWN OR NOT ON STRUCTURAL DRAWINGS. EXCESS COST RELATED TO VARIATION IN REQUIREMENTS OR EQUIPMENT ARE NOT TO BE BORNE BY THE OWNER.

8 IF FAULTY CONSTRUCTION PROCEDURES OR MATERIAL RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MY BE WITHHELD FROM THE GENERAL CONTRACTOR'S PAYMENT.

9 ONE BLACKLINE PRINT OF ALL ERECTION AND DETAIL SHOP DRAWINGS INDICATING THE FABRICATOR, MANUFACTURER, FINISH, LAYOUT AND ALL ACCESSORIES MUST BE SUBMITTED TO AND BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE SUBMISSION TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

10 THESE DRAWINGS ARE SUPPLEMENTED BY A DETAILED TECHNICAL SPECIFICATION. THE NOTES SHOWN UNDER CERTAIN CATEGORIES OF WORK ARE INTENDED TO SUMMARIZE BASIC REQUIREMENTS.

11 WORK SHOWN AS "TYPICAL DETAILS" APPLY THROUGHOUT THE PROJECT AS REQUIRED. WORK SHOWN AS "SECTIONS" SHALL BE CONSIDERED TO APPLY FOR THE SAME AND SIMILAR CONDITIONS IN THE BUILDING.

12 SOME DETAILS OF THE WORK ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. CAREFUL REVIEW AND STUDY OF THE DETAILS ARE NECESSARY BEFORE THE FULL SCOPE OF THE WORK CAN BE COMPREHENDED.

13 DO NOT SCALE THE DRAWINGS.

FOUNDATION NOTES

1 REFER TO DIVISION 31 OF THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS OF EARTHWORK MATERIAL AND BACKFILLING.

2 REFER TO THE PROJECT "STATEMENT OF SPECIAL INSPECTIONS" FOR REQUIRED FOUNDATION TESTING AND INSPECTIONS.

3 FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE GEOTECHNICAL REQUIREMENTS STATED IN THE PROJECT GEOTECHNICAL REPORT. SEE PROJECT SPECIFICATIONS FOR REPORT.

4 ALL FOUNDATIONS SHALL BEAR ON INORGANIC, UNDISTURBED SOILS AS DESCRIBED IN THE PROJECT GEOTECHNICAL REPORT OR ON COMPACTED STRUCTURAL FILL. ACCEPTABLE BEARING STRATA IS ANTICIPATED AT THE BOTTOM OF FOOTING ELEVATIONS NOTED ON PLAN AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.

5 DO NOT PLACE CONCRETE ON FROZEN GROUND OR IN EXCAVATIONS CONTAINING FREE STANDING WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL BEARING GRADES AND SURROUNDING SOILS PRIOR TO AND AFTER FOUNDATIONS HAVE BEEN POURED.

6 BACKFILL FOUNDATION WALLS IN SUCH A MANNER TO MAINTAIN EQUAL LEVELS OF FILL ON EACH SIDE OF WALL. FILL LEVELS MAY VARY UP TO 1'-0" ON EITHER SIDE AT ANY ONE TIME.

7 CONCRETE SLABS AT THE TOP AND BOTTOM OF BASEMENT WALLS ARE ASSUMED TO BRACE THE WALLS. DO NOT BACKFILL BASEMENT WALLS UNTIL THESE SLABS HAVE BEEN POURED AND ACHIEVE THEIR SPECIFIED 28-DAY COMPRESSIVE STRENGTH.

8 LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.

9 WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUB-SURFACE PIPING, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8-INCHES BELOW ELEVATION OF PIPING UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.

10 COMPLY WITH ALL OSHA STANDARDS AND REGULATIONS WHEN EXCAVATING FOR FOUNDATIONS.

CONCRETE NOTES

1 REFER TO DIVISION 03 OF THE PROJECT SPECIFICATIONS FOR ADDITONAL CONCRETE REQUIREMENTS.

2 REFER TO THE PROJECT "STATEMENT OF SPECIAL INSPECTIONS" FOR REQUIRED CONCRETE TESTING AND INSPECTIONS.

3 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS".

4 ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS NOTED OTHERWISE, MUST FOLLOW THE LATEST EDITION OF THE ACI CODE AND ACI "MANUAL OF STANDARD PRATICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

5 "WET STICKING" DOWELS AND REINFORCING INTO CONCRETE IS NOT PERMITTED. ALL DOWELS, REINFORCING AND WELDED WIRE FABRIC MUST BE SUPPORTED AND TIED IN ITS PROPER LOCATION PRIOR TO POURING CONCRETE.

6 REFER TO CHAPTER 20 OF THE LATEST EDITION OF ACI 318 FOR MINIMUM CONCRETE COVER REQUIREMENTS.

7 NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEERS WRITTEN PERMISSION OTHER THAN ENTRAINED AIR.

8 DO NOT USE CALCIUM CHLORIDE IN ANY CONCRETE.

9 REFER TO AND COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ALL ITEMS REQUIRED BY OTHER TRADES TO BE PLACED INTO CONCRETE PRIOR TO POURING.

10 REFER TO AND COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ALL SLAB DEPRESSIONS, WALL AND SLAB OPENINGS AND FLOOR FINISHES PRIOR TO POURING CONCRETE.

11 PLACE CONCRETE PIERS AND WALLS MONOLITHICALLY WITH WALL REINFORCING EXTENDING THROUGH PIER.

12 DEFLECTION OF STEEL FRAMED FLOORS WILL OCCUR DURING PLACEMENT OF CONCRETE FLOOR SLABS. PROVIDE ADDITIONAL CONCRETE AS REQUIRED TO FINISH SLABS WITHIN THE SPECIFIED TOLERANCES SET FORTH IN THE PROJECT SPECIFICATIONS. ALLOW FOR AN AVERAGE OF 1/2-INCH OF ADDITIONAL CONCRETE AT EACH FLOOR SLAB POUR.

13 SAW CUT CONTROL JOINTS FOR SLABS ON GRADE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE OR OTHERWISE DAMAGE THE SURFACE OF THE CONCRETE WITH AN EARLY-ENTRY DRY-CUT SAW EQUIPPED WITH DIAMOND-RIMMED BLADES. START CUTTING WITHIN 4-HOURS OF FINISHING CONCRETE AND COMPLETE CUTTING WITHIN 12-HOURS OF FINISHING CONCRETE. JOINTS SHALL BE CUT IN PATTERN SHOWN ON PLAN.

14 A REPRESENTATIVE FROM THE FIBER REINFORCING MANUFACTURER SHALL BE PRESENT AT THE PRE-POUR MEETING TO ADVISE ON PLACING AND FINISHING TECHNIQUES OF CONCRETE CONTAINING FIBER REINFORCING.

STRUCTURAL STEEL NOTES

1 REFER TO DIVISION 05 OF THE PROJECT SPECIFICATIONS FOR ADDTIONAL STRUCTURAL STEEL REQUIREMENTS.

2 REFER TO THE PROJECT "STATEMENT OF SPECIAL INSPECTIONS" FOR REQUIRED STRUCTURAL STEEL TESTING AND INSPECTIONS.

3 DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC 360 - "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

4 ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY'S AWS D1.1 - "STRUCTURAL WELDING CODE-STEEL" FOR ARC AND GAS WELDING. WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH AWS STANDARDS.

5 WHERE SLOTTED HOLE CONNECTIONS ARE SHOWN TO ALLOW FOR PERMANENT DIFFERENTIAL MOVEMENT BETWEEN TWO MEMBERS, NUTS SHALL BE FASTENED SNUG TIGHT THEN UNTIGHTENED BY ONE-HALF TURN. PEEN THREADS TO PREVENT FURTHER LOOSENING OF THE NUT. THIS IS NOT REQUIRED AT SLOTTED HOLE CONNECTIONS THAT ARE TO BE FIELD WELDED AFTER ADJUSTMENT.

6 PROVIDE NUMBER OF BOLTS REQUIRED TO SATISFY LOAD REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS WITH A MINIMUM OF 2-BOLTS AT EACH CONNECTION UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS.

7 REFER TO ARCHITECTURAL DRAWINGS FOR STRUCTURAL STEEL FIRE RATINGS AND PROTECTION. COORDINATE STRUCTURAL STEEL SURFACE PREPARATION AND PRIMER WITH FIRE RATING REQUIREMENTS.

8 DO NOT FIELD ALTER OR FIELD CUT OPENINGS IN STRUCTUAL STEEL WITHOUT WRITTEN APPROVAL FROM ENGINEER. ALL OPENINGS IN STRUCTURAL STEEL MUST BE INDICATED ON STEEL SHOP DRAWINGS PRIOR TO FABRICATION.

9 PACK COLUMN AND BEAM BASE PLATES WITH NON-SHRINK GROUT AFTER BUILDING HAS BEEN ERECTED AND PLUMBED TO WITHIN AISC TOLERENCES AND BEFORE POURING OF ANY CONCRETE FLOORS.

10 COMPLY WITH ALL OSHA STANDARDS AND REGULATIONS WHEN ERECTING STRUCTURAL STEEL.

11 BEAMS SHALL BE EQUALLY SPACED BETWEEN GRID LINES UNLESS NOTED OTHERWISE ON FRAMING PLANS.

STEEL DECK NOTES

1 REFER TO DIVISION 05 OF THE PROJECT SPECIFICATIONS FOR ADDITIONAL STEEL DECK REQUIREMENTS.

2 REFER TO THE PROJECT "STATEMENT OF SPECIAL INSPECTIONS" FOR REQUIRED STEEL DECK TESTING AND INSPECTIONS.

3 STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE SPECIFICAITON.

4 SUPPLY STEEL DECK IN MINIMUM LENGTHS AS REQUIRED TO PROVIDE A 3-SPAN CONDITION.

5 SUPPLY STEEL DECK WITH END CLOSURES, ROOF SUMPS, CLOSURES AT PENETRATIONS AND ALL OTHER ACCESSORIES NECESSARY TO COMPLETE INSTALLATION.

6 POINT LOADS THAT EXCEED 50 POUNDS SHALL NOT BE SUPPORTED DIRECTLY ON OR HUNG DIRECTLY FROM STEEL ROOF DECK. SUPPORT ALL DUCTWORK, PIPING AND OTHER MEP AND ARCHITECTURAL ITEMS DIRECTLY FROM STRUCTURAL STEEL OR SUPPLEMENTAL STEEL FRAMING AS REQUIRED. HANGING LOADS LESS THAN 50 POUNDS SHALL BE SPACED A MINIMUM OF 36-INCHES APART AND CONNECTED USING AN APPROPRIATE ANCHORING SYSTEM.

7 TOTAL AMOUNT OF LOADS HUNG FROM COMPOSITE METAL DECK FLOOR SLABS SHALL NOT EXCEED 400 POUNDS IN ANY 48-INCH WIDTH OF SLAB. SUPPORT LOADS EXCEEDING THIS AMOUNT DIRECTLY FROM STRUCTURAL STEEL OR SUPPLEMENTAL STEEL FRAMING.

8 COMPLY WITH ALL OSHA STANDARDS AND REGULATIONS WHEN ERECTING STEEL DECK.

SPECIAL INSPECTION NOTES

1 REFER TO DIVISION 01 OF THE PROJECT SPECIFICATIONS FOR THE SCHEDULE OF SPECIAL INSPECTIONS AND ADDITIONAL SPECIAL INSPECTIONS REQUIREMENTS.

2 MATERIAL SPECIFICATION SECTIONS, THE SCHEDULE OF SPECIAL INSPECTIONS AND ALL ASSOCIATED NOTES DESCRIBE THE STRUCTURAL TESTING AND INSPECTIONS REQUIRED FOR THE PROJECT. COLLECTIVELY THEY SHALL BE CONSIDERED THE STATEMENT OF SPECIAL INSPECTIONS.

3 THE OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT. SIRACUSE ENGINEERS, PC IS NOT THE SPECIAL INSPECTOR FOR THIS PROJECT UNLESS ENGAGED BY THE OWNER UNDER A SEPARATE CONTRACT.

4 THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF CONSTRUCTION TO DISCUSS THE REQUIRED TESTING AND INSPECTION PROCEDURES FOR THIS PROJECT. THE MEETING SHALL ALSO DISCUSS NOTIFICATION AND REPORTING PROCEDURES.

5 THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR AND TESTING AGENCY AT LEAST 24 HOURS IN ADVANCE OF A REQUIRED INSPECTION OR TEST. UN-INSPECTED WORK THAT REQUIRES INSPECTION OR TESTING MAY BE REJECTED SOLELY ON THAT BASIS.

6 THE SPECIAL INSPECTOR AND/OR TESTING AGENCY SHALL IMMEDIATELY NOTIFY THE CONTRACTOR OF DEFICIENT WORK THAT REQUIRES CORRECTIVE ACTION. INSPECTION REPORTS FOR THIS WORK SHALL NOTE WHEN AND HOW THE DEFICIENT WORK WAS CORRECTED. WORK IMMEDIATELY CORRECTED WITH SPECIAL INSPECTOR OR TESTING AGENCY PRESENT AND RE-INSPECTED OR TESTED NEED NOT BE IDENTIFIED AS NON-CONFORMING WORK.

7 DEFICIENT WORK, NOT IMMEDIATELY CORRECTED WHILE SPECIAL INSPECTOR OR TESTING AGENCY ARE ON SITE, SHALL BE REPORTED TO THE ENGINEER OF RECORD AND CODE ENFORCEMENT OFFICIAL WITHIN 24 HOURS. A REPORT OF NON-CONFORMANCE SHALL BE ISSUED FOR THIS WORK.

8 THE CONTRACTOR SHALL COOPERATE WITH THE SPECIAL INSPECTOR AND TESTING AGENCY INCLUDING SAFE ACCESS TO THE WORK AREAS SO THAT TESTING AND INSPECTIONS CAN BE PERFORMED IN A TIMELY MANNER OR UNDUE DELAY TO THE PROJECT.

9 THE SPECIAL INSPECTIONS REQUIREMENTS OF THIS PROJECT IN NO WAY RELIEVE THE CONTRACTOR OF HIS/HER OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.

10 EACH TESTING AGENCY SHALL SUBMIT, STAMP AND SIGN AN AGENT'S FINAL REPORT TO THE SPECIAL INSPECTOR FOR ATTACHMENT TO THE SPECIAL INSPECTOR'S FINAL REPORT. THE FINAL REPORT SHALL BE STAMPED AND SIGNED BY THE SPECIAL INSPECTOR AND SUBMITTED TO THE CODE ENFORCEMENT OFFICIAL AND OWNER PRIOR TO THE ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

EPOXY ANCHORING NOTES

1 AS PER OSHA 29 CFR 1926.1153, DRILLED HOLES FOR POST INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED USING HILTI SAFE SET INSTALLATION WHICH CONSISTS OF DRILLING WITH A CODE APPROVED HILTI HOLLOW DRILL BIT ATTACHED TO A HILTI VACUUM SO NO FURTHER HOLE CLEANING IS REQUIRED FOR THREADED RODS AND/OR REBAR. ALTERNATE OPTION IS DRILLING HOLES WITH AN APPROVED DUSTLESS SYSTEM AND THEN CLEANING THE HOLES WITH WIRE BRUSH AND COMPRESSED AIR THROUGH AN APPROVED ADAPTER THAT CAPTURES ALL DUST INTO A HEPA FILTERED VACUUM.

2 CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE ANCHOR INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. CONTRACTOR SHALL SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL INSTALLING ANCHORS HAVE RECEIVED THE REQUIRED TRAINING PRIOR TO THE COMMENCEMENT OF WORK.

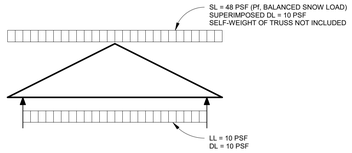
3 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO THE EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCE INDICATED ON THE DRAWINGS.

4 CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR POST INSTALLED ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4.3/4.4 OF THE ICC-ES REPORT FOR THE INDIVIDUAL ANCHOR. SPECIAL INSPECTOR SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF WORK TO COORDINATE INSPECTION EFFORTS.

STRUCTURAL DESIGN CRITERIA

NOTE: ALL LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE "2025 BUILDING CODE OF NEW YORK STATE." FOR THE AREAS OF WORK SHOWN IN THESE DRAWINGS.

TYPE	DESCRIPTION	DESIGN CRITERIA
FLOOR LIVE LOAD	PUBLIC SPACE	100 PSF
	ELEVATED MECHANICAL PLATFORM	60 PSF / 400 LBS
ROOF LIVE LOAD	ROOF CONSTRUCTION LOAD	20 PSF
SNOW LOAD (STRENGTH LEVEL)	RISK CATEGORY	II
	GROUND SNOW LOAD	96 PSF
	SNOW EXPOSURE FACTOR	1.0
	THERMAL FACTOR	1.2
	BALANCED SNOW LOAD	68 PSF
	UNBALANCED SNOW LOAD	PER ASCE 7-22
WIND LOAD (MWRS - STRENGTH LEVEL)	RISK CATEGORY	II
	BASIC WIND SPEED (3-SECOND GUST)	110 MPH
	WIND EXPOSURE CATEGORY	C
	INTERNAL PRESSURE COEFFICIENT	+/- 0.18
	MAXIMUM WIND PRESSURE	22 PSF
WIND LOAD (COMPONENT & CLADDING) (STRENGTH LEVEL)	MAXIMUM WIND PRESSURE FOR WALLS (EFF. AREA = 10 FT2)	-43 PSF / +32 PSF
	MAXIMUM WIND PRESSURE FOR ROOFING (EFF. AREA = 10 FT2)	SEE DIAGRAM ON S-006
EARTHQUAKE LOAD	RISK CATEGORY / IMPORTANCE FACTOR	II / 1.0
	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER (Ss)	0.17 g
	DESIGN SPECTRAL RESPONSE COEFFICIENT (Sds)	0.11 g
	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER (S1)	0.04 g
	DESIGN SPECTRAL RESPONSE COEFFICIENT (Sd1)	0.034 g
	SOIL SITE CLASSIFICATION	C
	SEISMIC DESIGN CATEGORY	A
	BASIC SEISMIC - FORCE RESISTING SYSTEM	TABLE 12.2-1 (TYPE A.10)
	RESPONSE MODIFICATION FACTOR (R)	2
	SEISMIC RESPONSE COEFFICIENT (Cs)	0.055
	ANALYSIS PROCEDURE	EQUIV. LATERAL FORCE
	DESIGN SEISMIC BASE SHEAR	X KIPS
RAIN LOAD	RAIN INTENSITY (15 MINUTE/60 MINUTE)	5.29 IN/HR / 2.31 IN/HR
SOIL BEARING	ALLOWABLE NET SOIL BEARING PRESSURE	3000 PSF



MINIMUM TRUSS LOADING

PROVIDE ADDITIONAL LOAD AT VALLEY FRAMING

LL (TOP CHORD) 15 PSF
DL (TOP CHORD) 7 PSF

COLD-FORMED TRUSS - GENERAL NOTES

1. TRUSSES TO BE DESIGNED FOR 80#/SQFT. GROUND SNOW LOAD IN ACCORDANCE WITH THE " 2025 BUILDING CODE OF NEW YORK STATE" FOR VENTILATED ROOF. BUILDING CATEGORY II & SHALL INCLUDE THE POTENTIAL FOR DRIFTED AND UNBALANCED SNOW.
2. TRUSSES TO BE DESIGNED FOR WIND & SEISMIC LOAD IN ACCORDANCE WITH THE " 2025 BUILDING CODE OF NEW YORK STATE".
3. TRUSSES MUST BE DESIGNED AND BUILT BY A REPUTABLE TRUSS MANUFACTURER. ALL TRUSS DESIGN AND DETAILS MUST BE STAMPED AND SIGNED BY A NEW YORK STATE PROFESSIONAL ENGINEER.
4. TRUSS COMPONENTS TO BE A MINIMUM OF 16 GA. FOR TOP & BOTTOM CHORDS AND 18 GA. FOR WEB MEMBERS FOR ROOF TRUSSES.
5. STRUCTURAL CALCULATIONS:

   SUBMIT STRUCTURAL CALCULATIONS PREPARED BY THE MANUFACTURER FOR APPROVAL BY THE PROJECT ENGINEER. CALCULATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

   A. DESCRIPTION OF DESIGN CRITERIA.
   B. ENGINEERING ANALYSIS DEPICTING STRESS AND DEFLECTION (STIFFNESS) REQUIREMENTS FOR EACH FRAMING APPLICATION.
   C. SELECTION OF FRAMING COMPONENTS AND ACCESSORIES.
   D. VERIFICATION OF ATTACHMENTS TO STRUCTURE AND FOR ADJACENT FRAMING COMPONENTS.
   E. FASTENERS: PROVIDE NUTS, BOLTS, WASHERS, SCREWS, AND OTHER FASTENERS WITH CORROSION-RESISTANT PLATED FINISH.
6. TRUSS MANUFACTURER TO SUPPLY BRACING REQUIREMENTS FOR TRUSSES. MATERIAL AND ATTACHMENT BY GENERAL CONTRACTOR.
7. TRUSS DESIGN AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF AISI DESIGN GUIDE FOR COLD-FORMED STEEL TRUSSES.
8. DEFLECTION SHALL NOT EXCEED 1/240TH SPAN FOR TOTAL LOAD & 1/360TH SPAN FOR LIVE LOAD.
9. INSTALL ALL TRUSSES AS PER MANUFACTURERS INSTRUCTIONS.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

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No.	REVISIONS	DATE
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DRAWING TITLE:

SYMBOLS, ABBREVIATIONS, GENERAL NOTES & DESIGN CRITERIA

DATE: 11-11-2026	DRAWING No.
SCALE: AS SHOWN	S-001
DRAWN BY: NF	
CHECKED BY: DG	
PROJECT No: 23-006	

REINFORCING BAR EMBEDMENT / LAP SPLICE SCHEDULE

BAR SIZE	CONCRETE COVER < 1 1/2"								CONCRETE COVER ≥ 1 1/2"							
	TOP BARS				OTHER BARS				TOP BARS				OTHER BARS			
	3,000 psi		4,000 psi		3,000 psi		4,000 psi		3,000 psi		4,000 psi		3,000 psi		4,000 psi	
	EMBED.	LAP	EMBED.	LAP	EMBED.	LAP	EMBED.	LAP	EMBED.	LAP	EMBED.	LAP	EMBED.	LAP	EMBED.	LAP
#3	13"	17"	12"	15"	12"	13"	12"	12"	13"	17"	12"	15"	12"	13"	12"	12"
#4	22"	28"	19"	24"	17"	22"	15"	19"	17"	23"	15"	20"	13"	17"	12"	15"
#5	32"	41"	28"	36"	24"	32"	21"	28"	22"	28"	19"	24"	17"	22"	15"	19"
#6	43"	56"	37"	48"	33"	43"	29"	37"	26"	34"	22"	29"	20"	26"	17"	22"
#7	69"	90"	60"	78"	53"	69"	46"	60"	43"	55"	37"	48"	33"	43"	28"	37"
#8	86"	111"	74"	96"	66"	86"	57"	64"	54"	70"	47"	60"	41"	54"	36"	47"
#9	104"	135"	90"	117"	80"	104"	69"	90"	66"	86"	57"	74"	51"	66"	44"	57"
#10	125"	162"	108"	140"	96"	125"	83"	108"	81"	105"	70"	91"	62"	81"	54"	70"

NOTES:

1.) TOP BARS ARE THOSE WHICH ARE ORIENTED HORIZONTALLY AND HAVE MORE THAN 12" OF CONCRETE BELOW THE BAR.

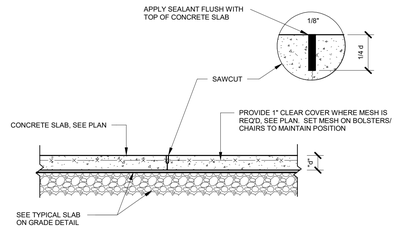
2.) EMBEDMENT AND LAP SPLICE LENGTHS SHOWN ARE APPLICABLE TO ASTM A615 GR. 60 REINFORCING BARS. FOR GR. 75 REINFORCING BARS, MULTIPLY LENGTHS BY 1.25.

3.) TABULATED VALUES ARE BASED ON CONCRETE COVER CONTROLLING. FOR BARS WITH CENTER-TO-CENTER SPACING LESS THAN 1.0Db (BAR DIAMETER) PLUS TWICE THE CONCRETE COVER, NOTIFY THE ENGINEER.

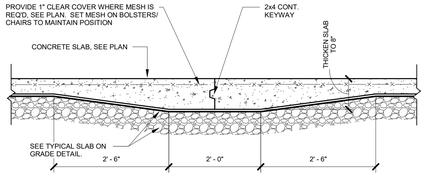
4.) WHERE CONCRETE DEPTH PRECLUDES FULL EMBEDMENT, PROVIDE 90 DEGREE HOOK.

5.) PROVIDE CONCRETE PROTECTION FOR REINFORCEMENT AS DESCRIBED IN ACI 318, CHAPTER 7.

6.) TABULATED VALUES ARE BASED ON NORMAL WEIGHT AGGREGATE. FOR LIGHTWEIGHT AGGREGATE, MULTIPLY LENGTHS BY 1.33.

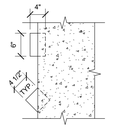


CONTRACTION JOINT

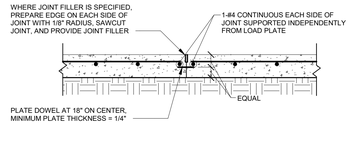


CONSTRUCTION JOINT

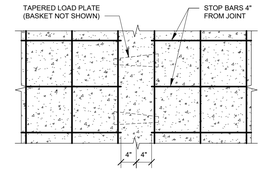
** JOINT DETAILS APPLY AT 4" SLABS ON GRADE FOR FOOT TRAFFIC

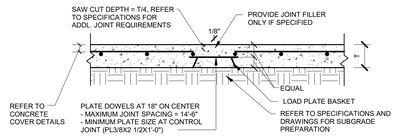


CONSTRUCTION JOINT PLATE DOWEL MINIMUM SIZE



CONSTRUCTION JOINT

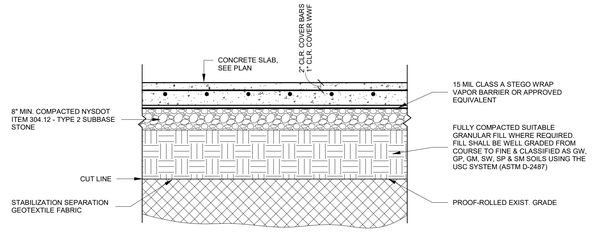




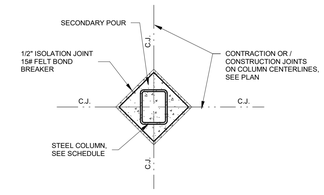
CONTRACTION (CONTROL) JOINT

** JOINT DETAILS APPLY AT 6" SLABS ON GRADE FOR FORK LIFT TRAFFIC

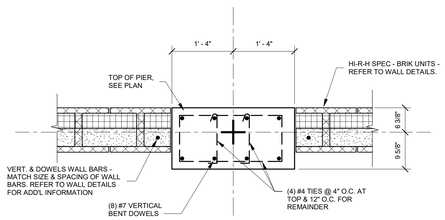
TYPICAL SOG CONSTRUCTION AND CONTROL JOINTS DETAILS



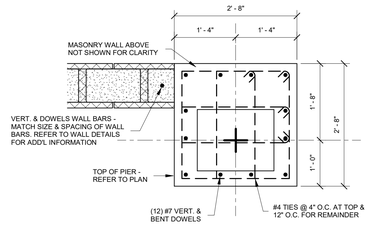
TYPICAL SLAB SUBBASE DETAIL



TYPICAL ISOLATION JOINT DETAIL



CONC. PIER DETAIL CP-1632
SCALE: 3/4" = 1'-0" S-002



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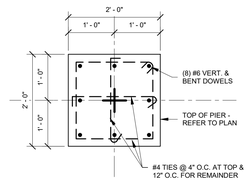

CONC. PIER DETAIL CP-2424
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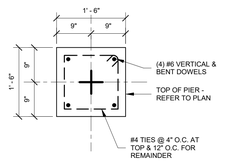

CONC. PIER DETAIL CP-1616
SCALE: 3/4" = 1'-0" S-002

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

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No.	REVISIONS	DATE
1	ISSUED FOR BID	11-20-2026

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DRAWING TITLE:

TYPICAL CONCRETE DETAILS

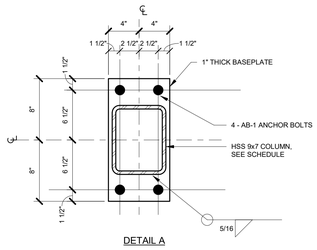
DATE: 11-11-2026	DRAWING No.
SCALE: AS SHOWN	S-002
DRAWN BY: NF	
CHECKED BY: DG	
PROJECT No: 23-006	

ANCHOR BOLT HOLE & WASHER SIZE SCHEDULE

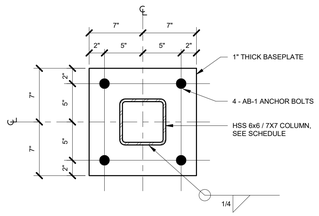
ANCHOR BOLT SIZE	MAX. BASEPLATE HOLE SIZE	MIN. WASHER SIZE
3/4" DIA.	1 5/16" DIA.	2" DIA. x 1/4"
7/8" DIA.	1 9/16" DIA.	2 1/2" DIA. x 5/16"
1" DIA.	1 13/16" DIA.	3" DIA. x 3/8"
1 1/4" DIA.	2 1/16" DIA.	3" DIA. x 1/2"
1 1/2" DIA.	2 5/16" DIA.	3 1/2" DIA. x 1/2"
1 3/4" DIA.	2 3/4" DIA.	4 DIA. x 5/8"
2" DIA.	3 1/4" DIA.	5" DIA. x 3/4"
2 1/2" DIA.	3 3/4" DIA.	5 1/2" DIA. x 7/8"

COLUMN SCHEDULE

TRUSS BEARING																																	TRUSS BEARING
20' - 5" MEZZANINE	HSS7X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS7X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS14X8X5/8	HSS12X12X1/2	HSS12X12X1/2	HSS14X8X5/8	HSS8X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS8X7X1/2	HSS7X7X1/2	HSS7X7X1/2	HSS8X7X1/2	HSS8X0X3/8	HSS8X0X3/8	HSS8X0X3/8	HSS8X7X1/2	HSS8X7X1/2	HSS8X0X3/8	HSS8X0X3/8	HSS8X0X3/8	HSS7X7X1/2	HSS8X7X1/2	HSS8X7X1/2	20' - 5" MEZZANINE
9' - 5" FIRST FLOOR																																	9' - 5" FIRST FLOOR
0"																																	0"
COLUMN CUTOFF	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-10"	-10"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	-6"	
BASEPLATE	D	A	A	A	A	D	A	A	E	C	C	E	A	A1	A	A1	A	B	B	A	B	B	B	A	A	B	B	B	D	A	A	A	A	D	
Column Locations	A-1	A-2	A-5	A-12	A-14	A-15	B-1	B-15	C-1	C-9	C-10	C-15	C.5-16	C.5-17	C.6-16	C.6-17	D-1	D-9.1	D-11.1	D-15	E-3	E-6	E-8	F-1	F-15	G-3	G-6	G-8	H-1	H-4	H-7	H-11	H-13	H-15	



DETAIL A



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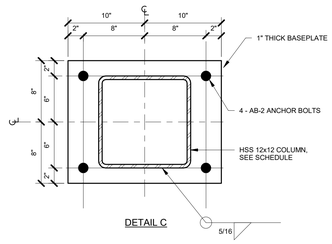

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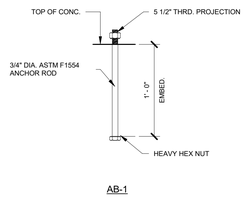
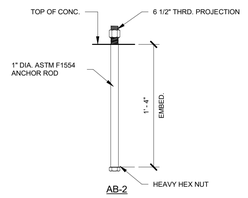
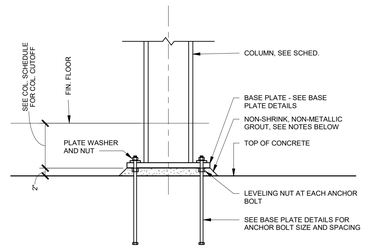


AB-1



AB-2

ANCHOR BOLT DETAILS

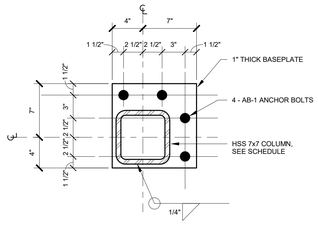


1.) SET COLUMN PLUMB - ADJUST LEVELING NUTS AS REQUIRED

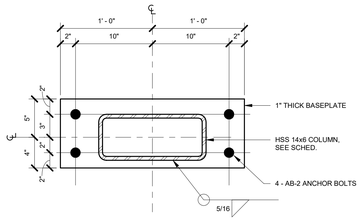
2.) IF CLEARANCE IS INSUFFICIENT FOR ADJUSTMENT OF NUTS, SUPPORT BASEPLATE WITH STEEL SHIMS.

3.) DRY-PACK BELOW BASE PLATE WITH NON-SHRINK, NON-METALLIC GROUT

TYPICAL COLUMN BASE DETAIL



DETAIL D



DETAIL E

BASE PLATE DETAILS

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

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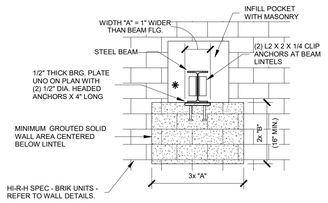
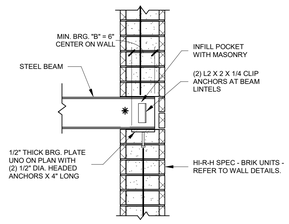
DRAWING TITLE:

COLUMN SCHEDULE & COLUMN BASE DETAILS

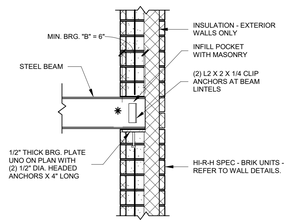
DATE: 11-11-2026	DRAWING No.
SCALE: AS SHOWN	
DRAWN BY: NF	S-003
CHECKED BY: DG	
PROJECT No: 23-006	



ELEVATION AT REINFORCED CMU



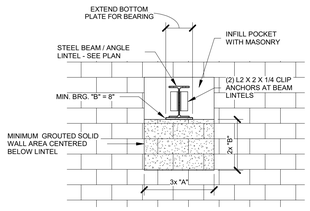
SECTION AT INTERIOR REINFORCED CMU



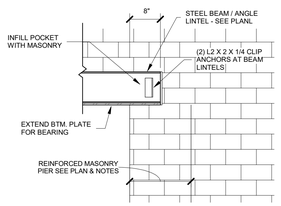
SECTION AT EXTERIOR REINFORCED CMU

STEEL BEAM BEARING DETAILS

✱ **DO NOT WELD BEAM TO BEARING PLATE**



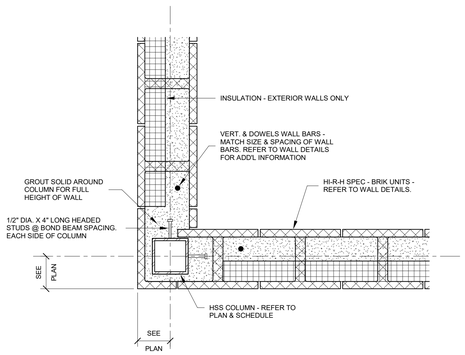
PERPENDICULAR TO WALL

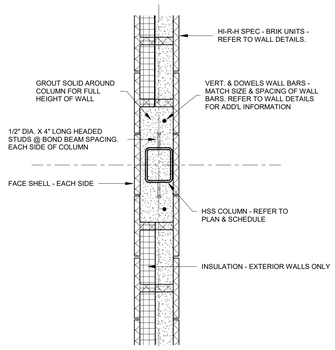


PARALLEL TO WALL

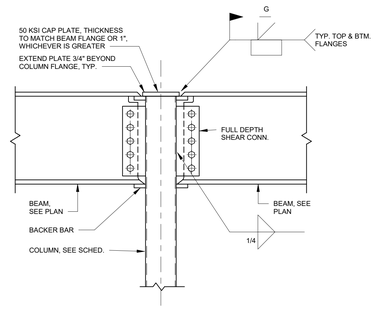
STEEL LINTEL BEARING DETAILS

TYPICAL BEAM & LINTEL BEARING DETAILS

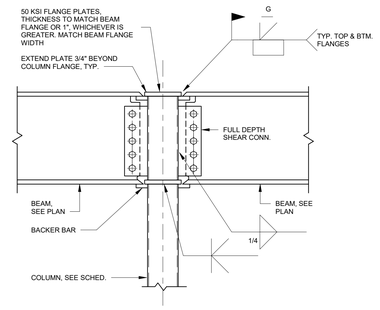




TYPICAL MASONRY COLUMN ENCLOSURE DETAILS



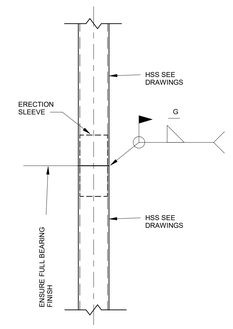
DETAIL No. 1



DETAIL No. 2

** BEAM FLANGE WIDER THAN COLUMN

TYPICAL MOMENT CONNECTION DETAILS



TYPICAL HSS SPLICE DETAIL

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

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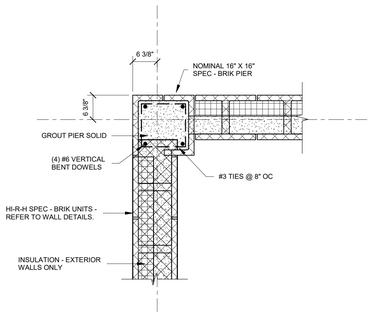
TYPICAL STEEL & MASONRY DETAILS

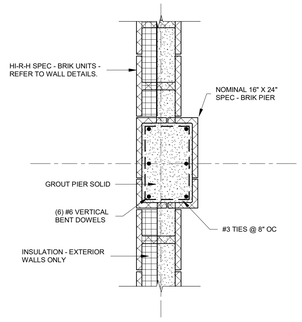
DATE: 11-11-2026	DRAWING No.
SCALE: AS SHOWN	
DRAWN BY: NF	S-004
CHECKED BY: DG	
PROJECT No: 23-006	



MASONRY. PIER DETAIL — MP-1616

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

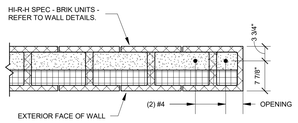
S-005



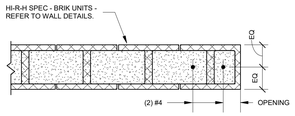
MASONRY. PIER DETAIL — MP-1624

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

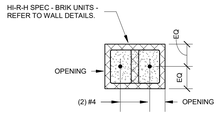
S-005



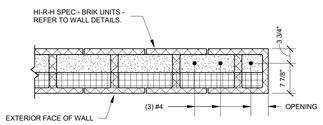
MP-2E



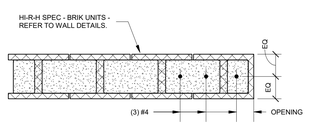
MP-2



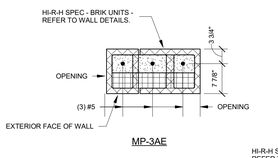
MP-2A



MP-3E



MP-3



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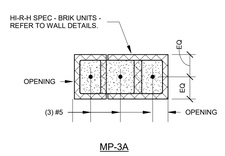

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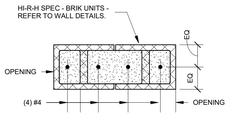
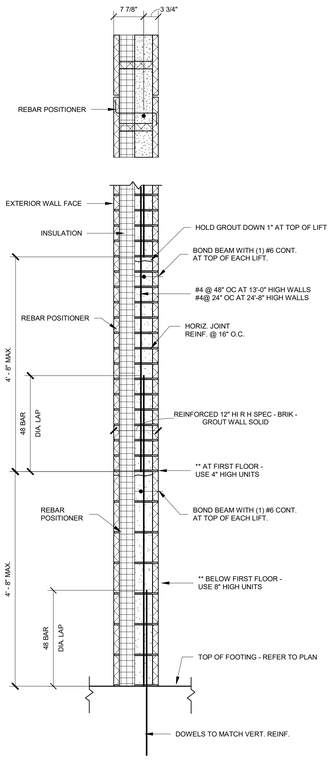
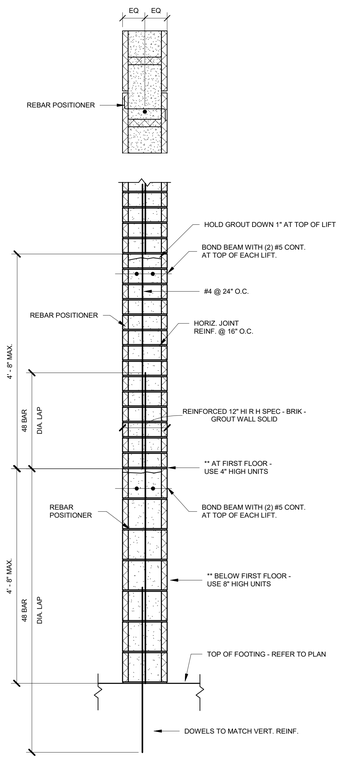


MP-4

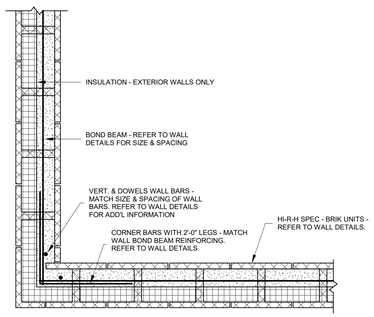
TYPICAL MASONRY PILASTER DETAILS



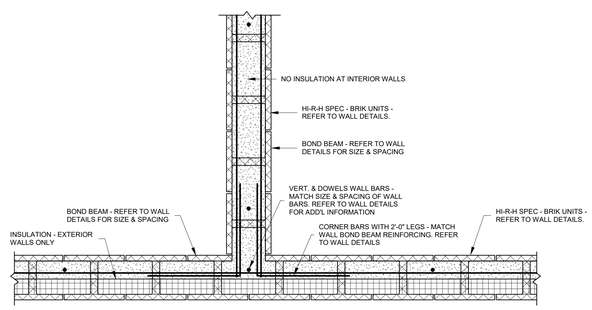
TYPICAL EXTERIOR 12" REINFORCED MASONRY WALL DETAIL



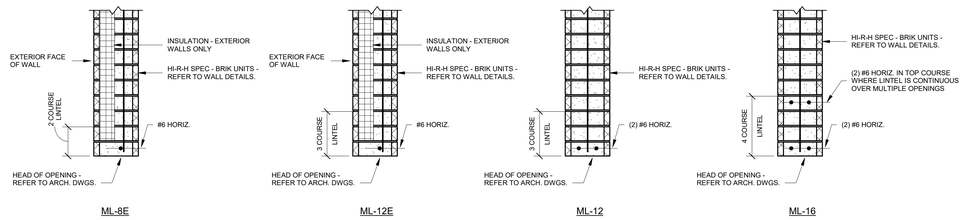
TYPICAL INTERIOR 12" REINFORCED MASONRY WALL DETAIL



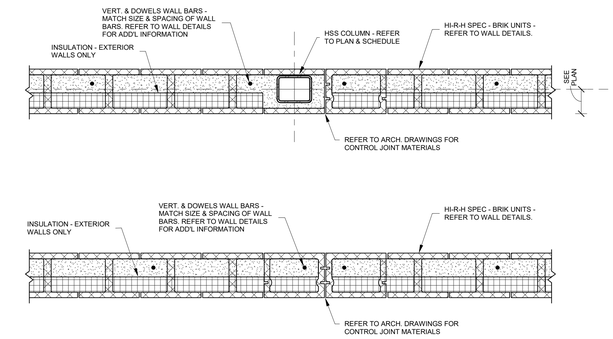
TYPICAL REINF. MASONRY CORNER DETAIL



TYPICAL REINF. MASONRY INTERSECTION DETAIL



TYPICAL MASONRY LINTEL DETAILS



TYPICAL MASONRY CONTROL JOINT DETAIL

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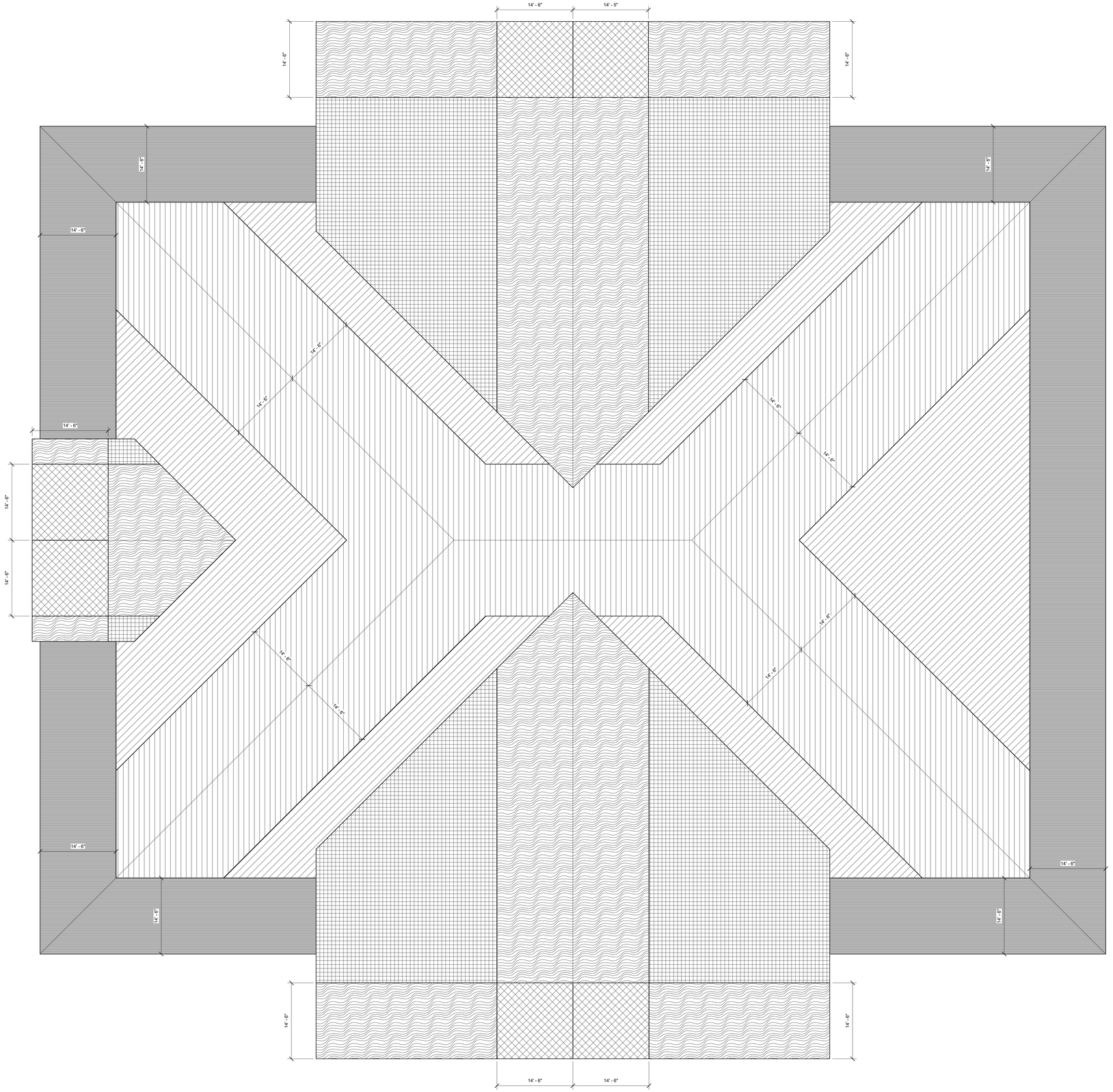
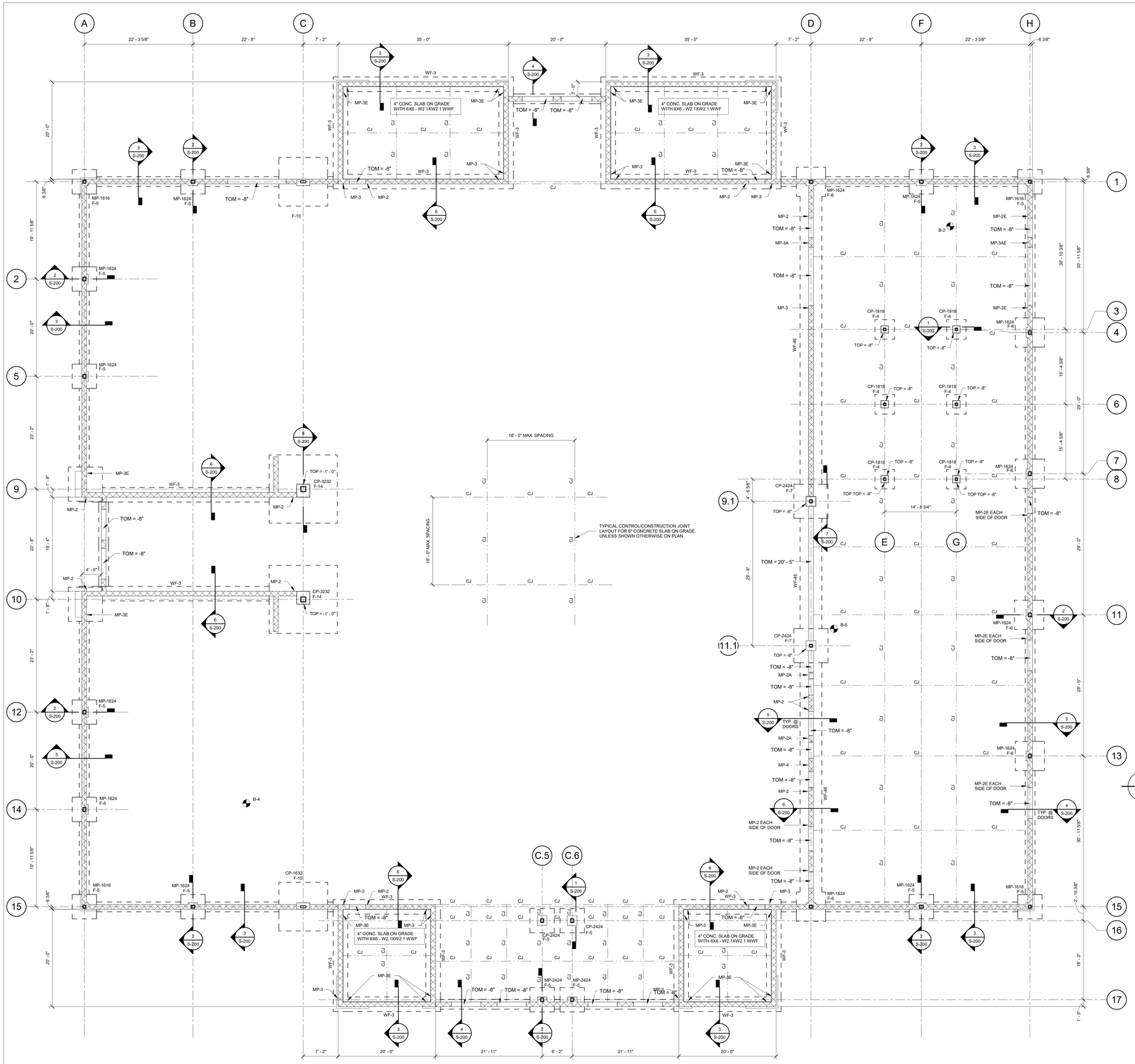
DRAWING TITLE:

TYPICAL MASONRY
DETAILS

DATE: 11-11-2026	DRAWING No.
SCALE: AS SHOWN	S-005
DRAWN BY: NF	
CHECKED BY: DG	
PROJECT No: 23-006	


14' - 6"
14' - 5"
14' - 6"
14' - 6"
14' - 6



CONCRETE FOOTING SCHEDULE					
FOOTINGS DESIGNED FOR 3,000 PSF BEARING					
MARK	LENGTH	WIDTH	THICKNESS	CONT. THICKNESS	Type Comments
F-4	4' - 0"	4' - 0"	1' - 0"		(5) #5 EACH WAY, BOTT.
F-5	5' - 0"	5' - 0"	1' - 2"		(5) #5 EACH WAY - TOP & BTM
F-6	6' - 0"	6' - 0"	1' - 3"		(7) #5 EACH WAY - TOP & BTM
F-7	7' - 0"	7' - 0"	1' - 5"		(6) #6 EACH WAY - BOTTOM
F-10	10' - 0"	10' - 0"	2' - 0"		(9) #7 EACH WAY - TOP & BTM
F-14	14' - 0"	14' - 0"	2' - 8"		(12) #8 EACH WAY - TOP & BTM
WF-2	<varies>	2' - 0"		1' - 0"	(2) #5 LONG. / #5@12" TRANS.
WF-3	<varies>	3' - 0"		1' - 2"	(3) #5 LONG. / #5@12" TRANS.
WF-46	<varies>	4' - 6"		1' - 3"	(5) #5 LONG. / #5@12" TRANS.

1 S-100 FOUNDATION/FIRST FLOOR PLAN

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

NORTH

NOTES:

1. FLOOR CONSTRUCTION SHALL BE 6" CONCRETE SLAB ON GRADE W/ #4 REBAR @ 12" O.C., EACH WAY. SEE TYPICAL SLAB BASE DETAIL.
2. FINISH FLOOR ELEVATION SHALL BE 0'-0", DATUM ELEVATION = 797.0', TOPOGRAPHIC ELEVATION.
3. CONSTRUCTION & CONTROL JOINTS PATTERN SHALL BE 18'-0 X 18'-0" MAX. JOINTS SHALL BE EXTENDED TO COLUMN ISOLATION DIAMONDS AND ALL CORNERS, ESPECIALLY INSIDE CORNERS. SEE TYPICAL DETAILS.
4. F-X & WF-X DENOTES CONCRETE COLUMN AND WALL FOOTINGS. SEE FOOTING SCHEDULES FOR SIZE & REINFORCING.
5. WALL FOOTINGS SHALL BE TYPE WF-2 UNLESS NOTED OTHERWISE ON PLAN.
6. FOUNDATIONS TO BEAR ON SUITABLE, RELATIVELY UNDISTURBED, INDIGENOUS SOIL SUBGRADE OR COMPACTED ENGINEERED FILL (STRUCTURAL FILL OR FLOWABLE FILL. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
7. TOP OF FOOTING ELEVATIONS SHALL BE (-4'-0") FROM FINISH FIRST FLOOR ELEVATION (0'-0") UNLESS NOTED OTHERWISE ON PLAN, SHOWN (-X'-X") FROM FINISH FIRST FLOOR ELEVATION (0'-0").
8. CP-X DENOTES CONCRETE PIER. SEE PIER DETAILS FOR SIZE & REINFORCING.
9. MP-X DENOTES MASONRY PIER. SEE PIER DETAILS FOR SIZE & REINFORCING.
10. TOP OF CONCRETE AND MASONRY PIER ELEVATIONS TO BE (-0'-8") FROM FINISH FIRST FLOOR ELEVATION UNLESS NOTED ON PLAN.
11. SEE DRAWINGS S001 - S006 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS & TYPICAL DETAILS TO BE INCORPORATED INTO THE WORK.

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DRAWING TITLE:

FOUNDATION / FIRST FLOOR PLAN

DATE: 11-11-2026	DRAWING No.
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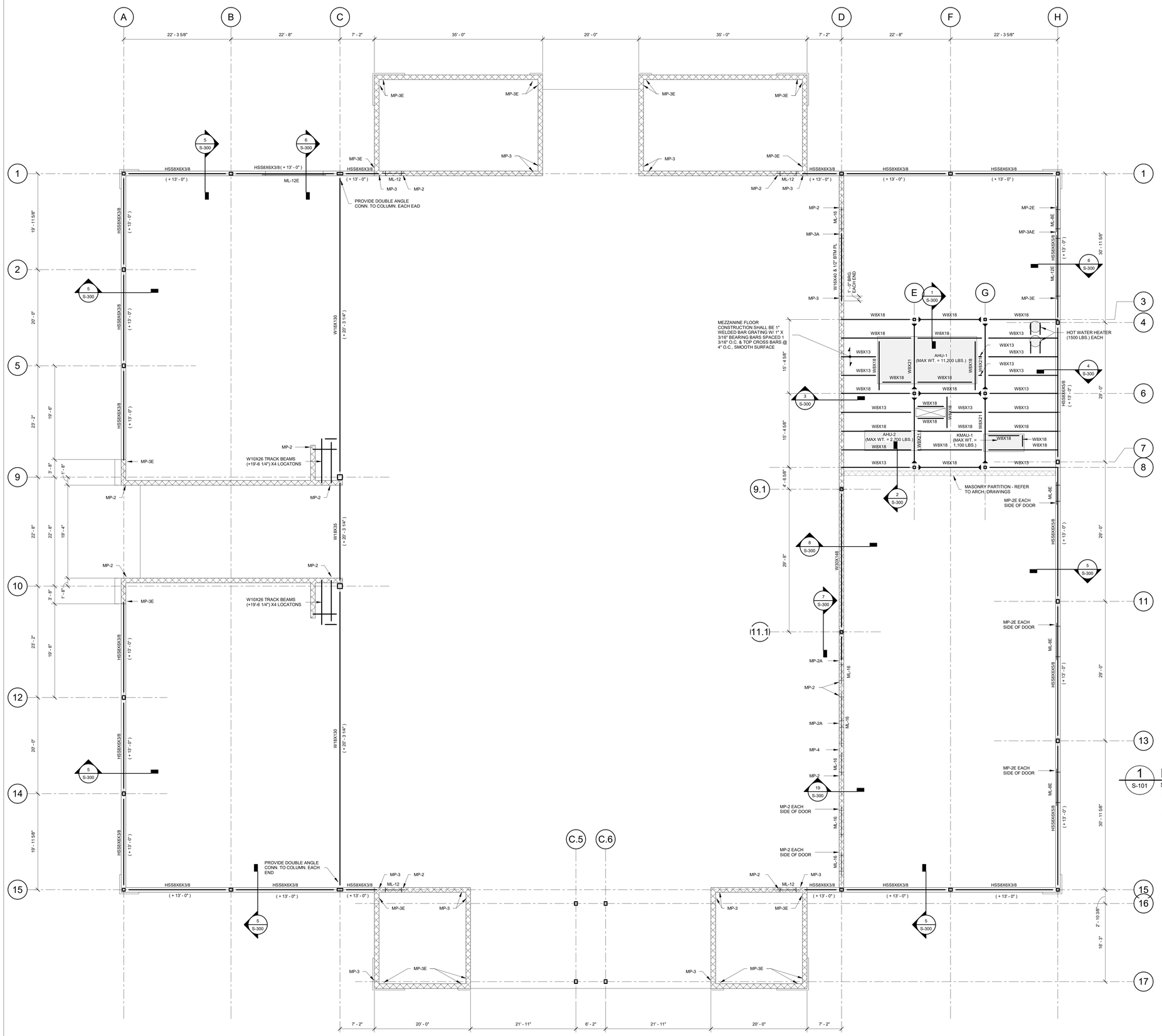
CHECKED BY: DG	
PROJECT No: 23-006	

STEEL LINTEL SCHEDULE	
MARK	SIZE



1 MEZZANINE FRAMING PLAN

1 / S-101

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

NORTH

NOTES:

1. REFER TO PLAN FOR MEZZANINE FLOOR CONSTRUCTION.
2. TOP OF STEEL ELEVATION SHALL BE +9'-4" FROM FINISH FIRST FLOOR ELEVATION, 0'-0", UNLESS NOTED OTHERWISE ON PLAN.
3. SEE DRAWINGS S001 - S006 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS & TYPICAL DETAILS TO BE INCORPORATED INTO THE WORK.

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MEZZANINE FRAMING PLAN

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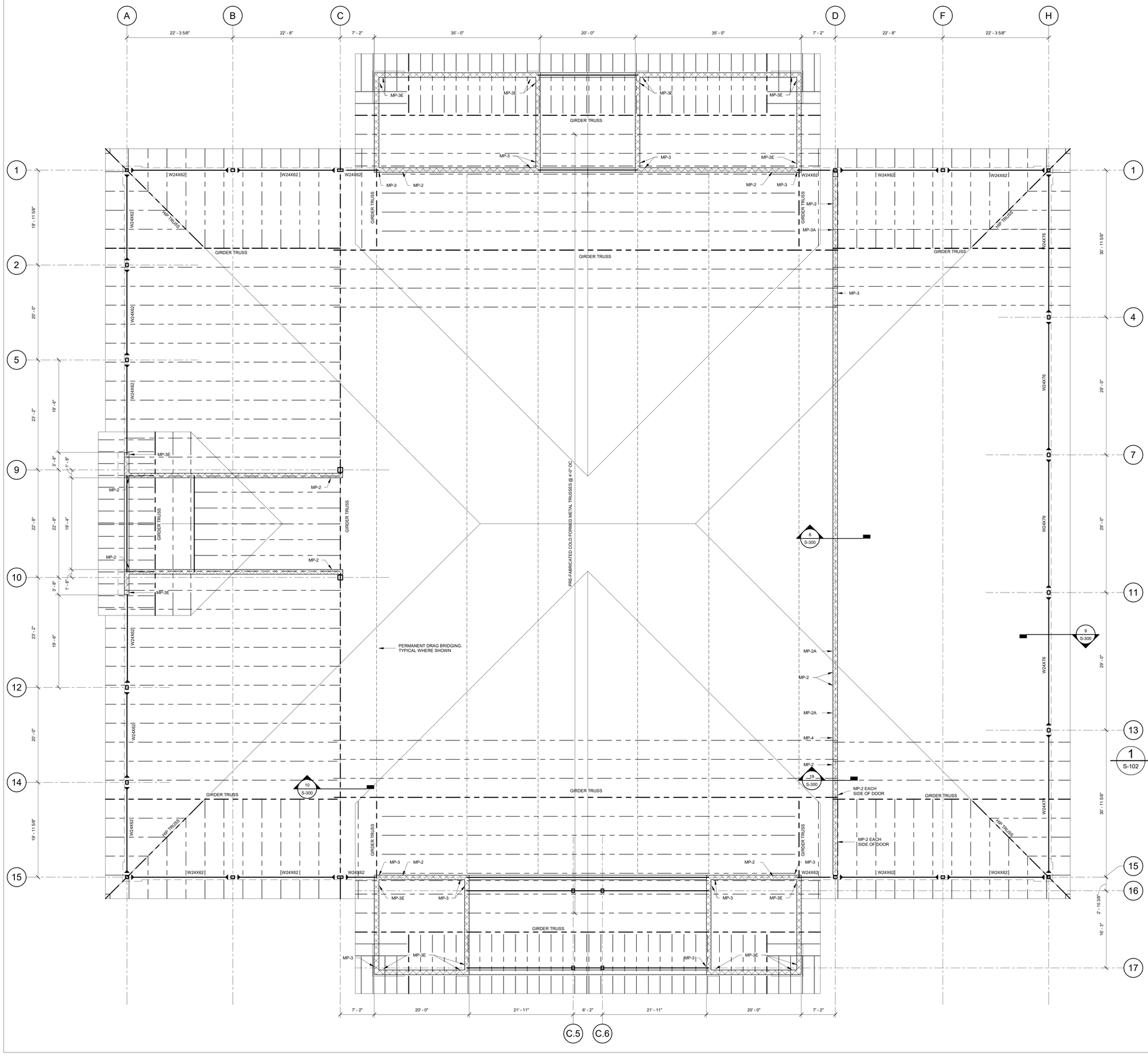
DRAWN BY: NF	S-101
CHECKED BY: DG	
PROJECT No: 23-006	



1 S-102 **ROOF FRAMING PLAN**

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

NORTH

NOTES:

1. ROOF CONSTRUCTION SHALL BE 1 1/2" (20 GA.) TYPE 'B' GALV. METAL ROOF DECK.
2. TOP OF STEEL ELEVATION SHALL BE +20'-5" FROM FINISH FIRST FLOOR ELEVATION, 0'-0", UNLESS NOTED OTHERWISE ON PLAN.
3. SEE DRAWINGS S001 - S006 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS & TYPICAL DETAILS TO BE INCORPORATED INTO THE WORK.

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ROOF FRAMING PLAN

DATE: 11-11-2026	DRAWING No.
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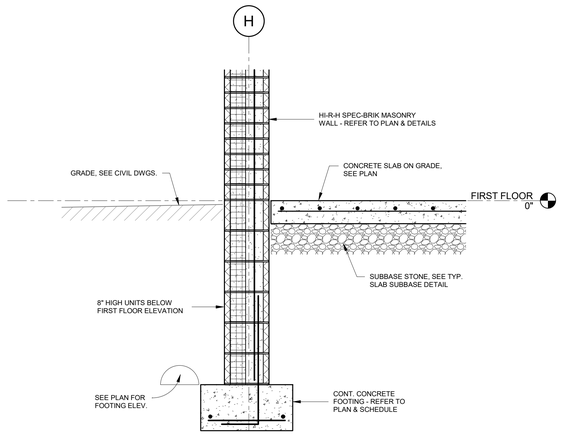
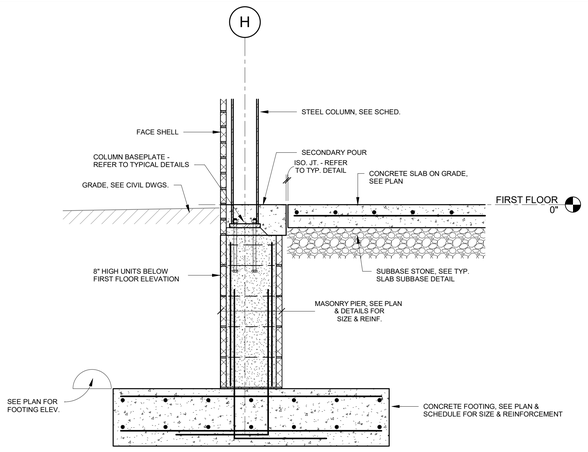
PROJECT No: 23-006	



SECTION 3
SCALE: 3/4" = 1'-0"
S-200



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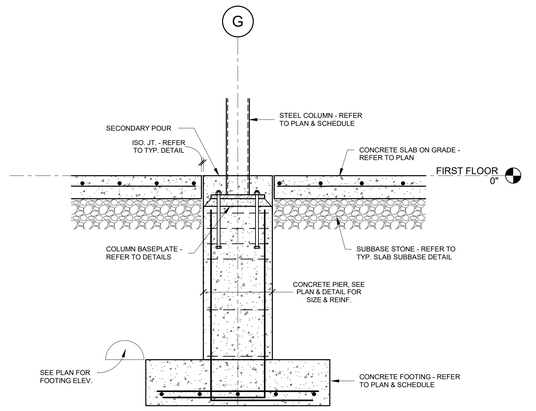
S-200



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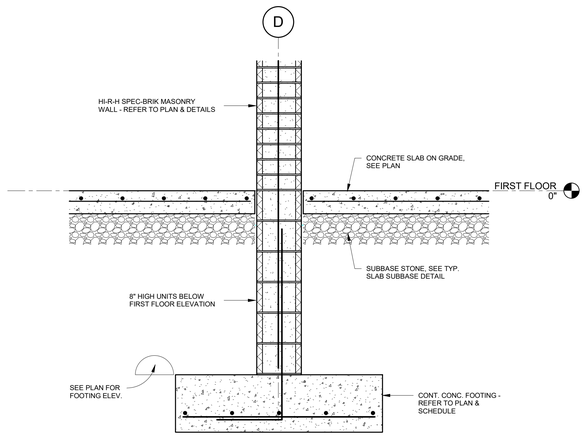
S-200



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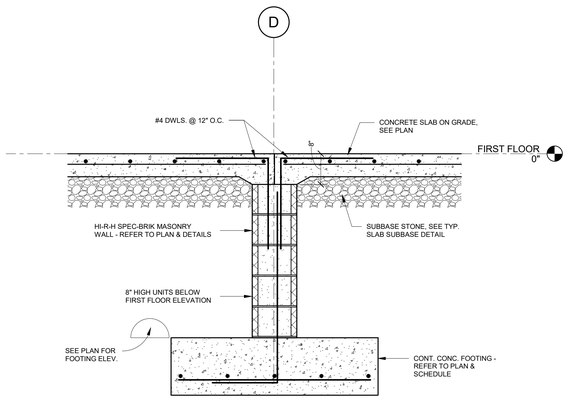
S-200



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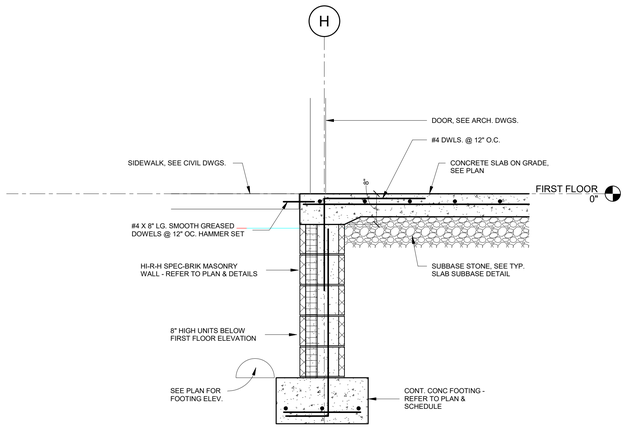

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SCALE: 3/4" = 1'-0"
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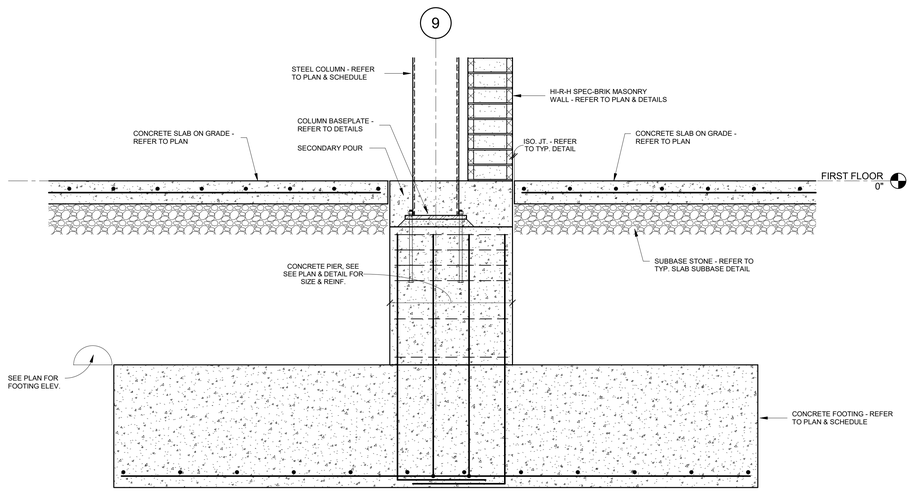

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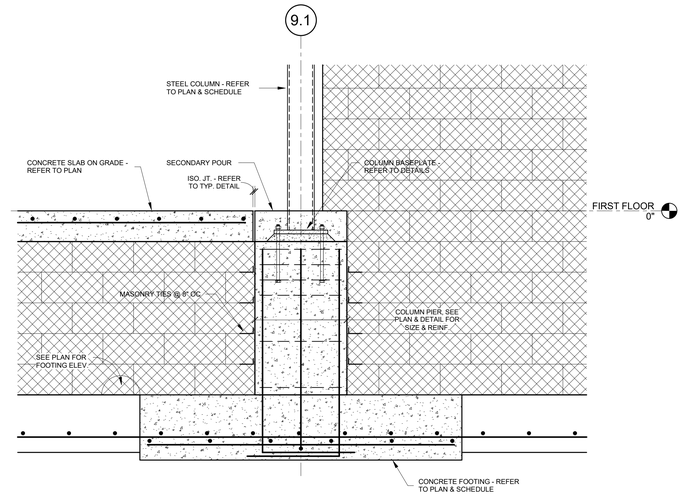

SECTION 7
SCALE: 3/4" = 1'-0"
S-200

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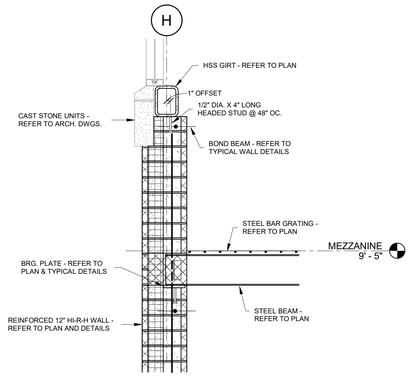

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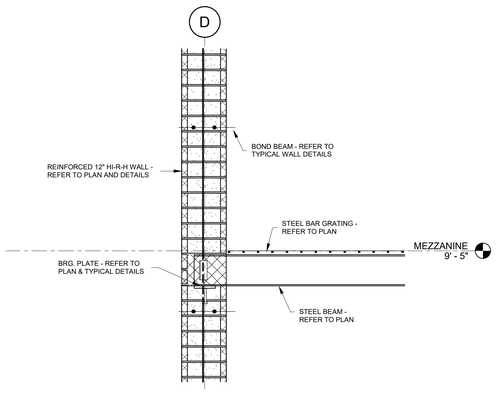

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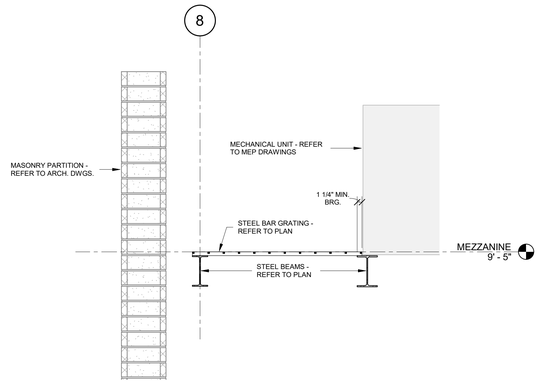

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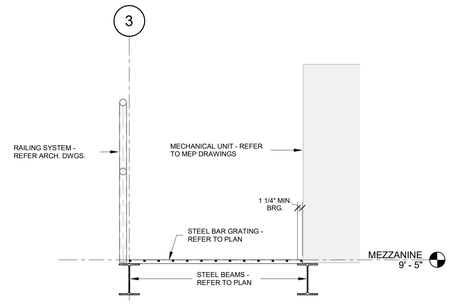

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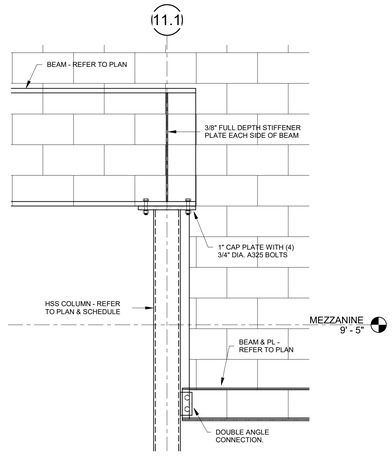

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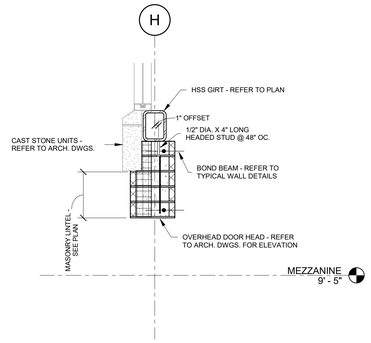

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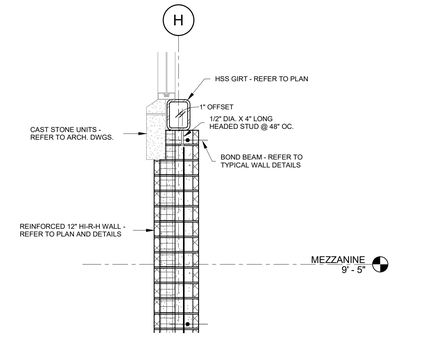

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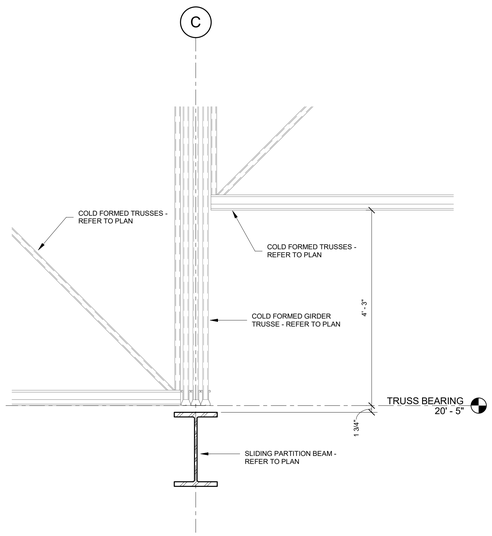

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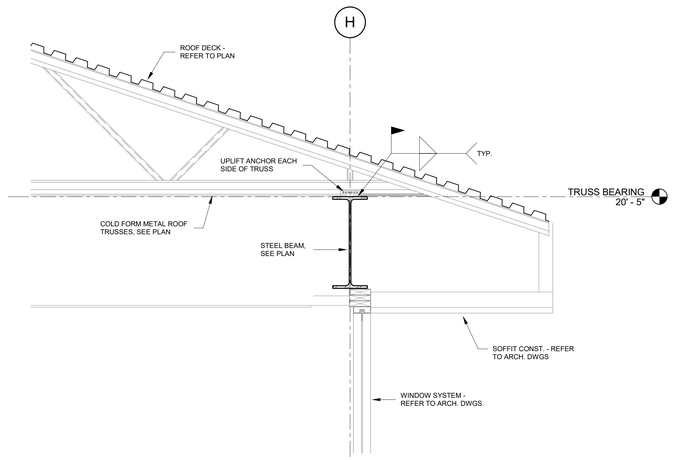

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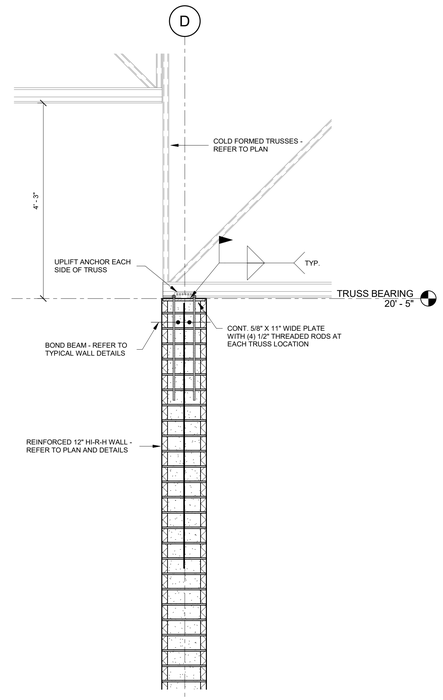
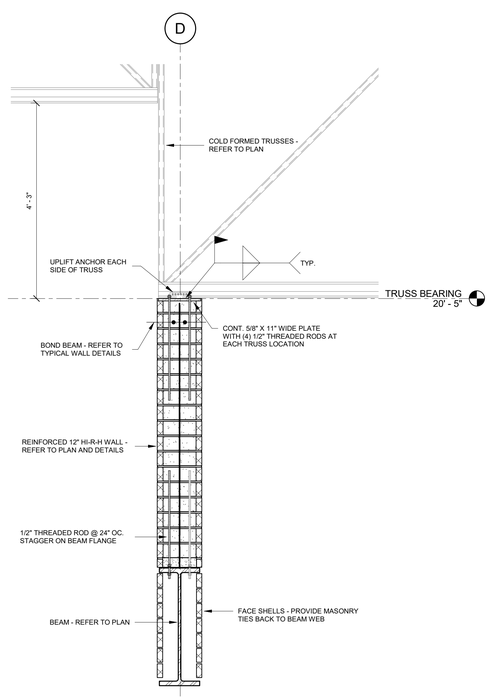


SECTION 19
SCALE: 3/4" = 1'-0" S-300



SECTION 8
SCALE: 3/4" = 1'-0" S-300

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

Siracuse Engineers PC
960 Busti – Suite 120
Buffalo, NY 14213
Phone: 716.856.1894
Fax: 716.852.2621

No.	REVISIONS	DATE
1	ISSUED FOR BID	11-20-2026

z a x l s
architectural, p.c.
architecture . planning . consulting
4245 UNION ROAD, SUITE 210
BUFFALO, NEW YORK 14225
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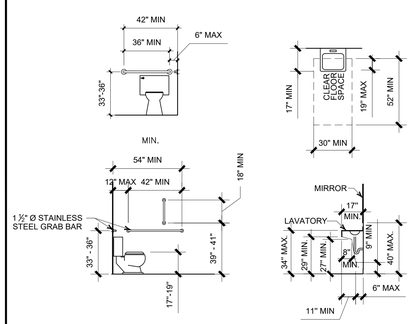
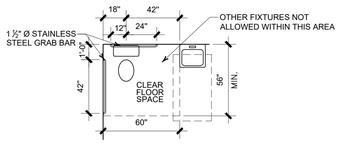
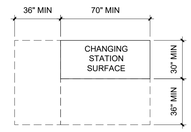
DRAWING TITLE:

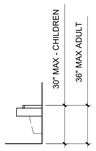
FRAMING SECTIONS

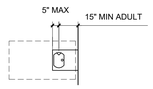
DATE: 11-11-2026	DRAWING No.
SCALE: AS SHOWN	S-300
DRAWN BY: NF	
CHECKED BY: DG	
PROJECT No: 23-006	



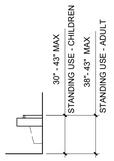








WHEELCHAIR ACCESS





STANDING USE ACCESS

TYP ADA TOILET RM. CLEARANCES — A

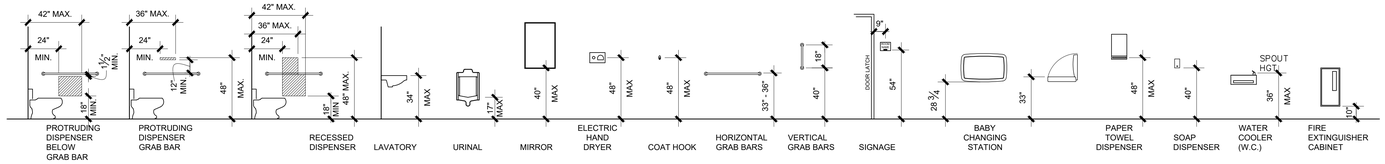
SCALE : N.T.S.

ADULT CHANGING SURFACE — B

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

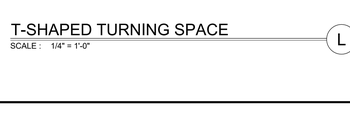
DRINKING FOUNTAIN — C

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



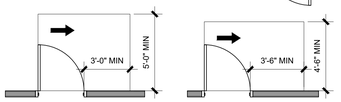
TYP ADA MOUNTING HEIGHTS — E

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



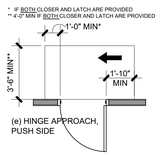
(a) FRONT APPROACH, PULL SIDE

(b) FRONT APPROACH, PUSH SIDE

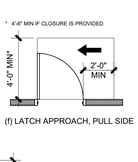


(c) HINGE APPROACH, PULL SIDE

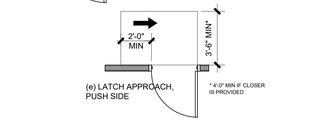
(d) HINGE APPROACH, PULL SIDE



(e) HINGE APPROACH, PUSH SIDE



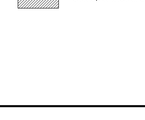
(f) LATCH APPROACH, PULL SIDE



(e) LATCH APPROACH, PUSH SIDE

CLEARANCES AT MANUAL SWINGING DOORS — G

SCALE : N.T.S.

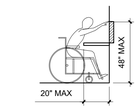


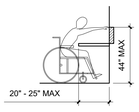
UNOBSTRUCTED FORWARD REACH — H

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

UNOBSTRUCTED SIDE REACH — J

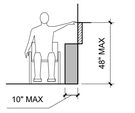
SCALE : 1/4" = 1'-0"

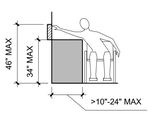




OBSTRUCTED FORWARD REACH — I

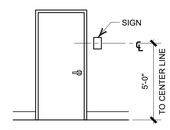
SCALE : 1/4" = 1'-0"





OBSTRUCTED SIDE REACH — K

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

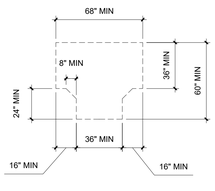


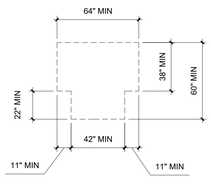
NOTES:

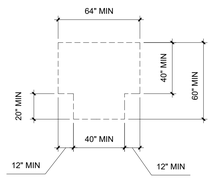
1. SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF THE DOOR.
2. MOUNT SIGN PANELS W/ SCREW EXPANSION SLEEVES AS REQUIRED

TYPICAL H/C SIGNAGE LOCATION — F

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

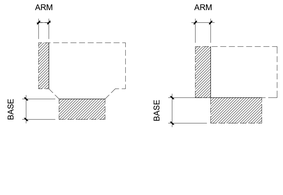


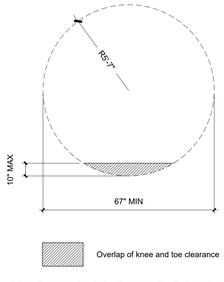




T-SHAPED TURNING SPACE — L

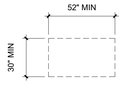
SCALE : 1/4" = 1'-0"





CIRCULAR TURNING SPACE — M

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



CLEAR FLOOR SPACE — N

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

ABBREVIATIONS

A/C	AIR CONDITIONING
ABV	ABOVE
ACT	ACOUSTICAL CEILING TILE
AD	ACCESS DOOR
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT
B	WALL BASE
BC	BOTTOM OF CURB
BD/BRD	BOARD
BLDG	BUILDING
BL	WINDOW BLINDS
BLK	BLOCK
BLKG	BLOCKING
BITUM	BITUMINOUS
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BTWN	BETWEEN
BW	BOTH WAYS
℄	CENTER LINE
CB	CATCH BASIN
CF	CUBIC FOOT
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMP	CORRIGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CR	CHAIR RAIL
CRS	COURSES
CT	CERAMIC TILE
CY	CUBIC YARD
DBL	DOUBLE
DEPT	DEPARTMENT
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGIONAL
DIM	DIMENSION
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DI	DROP INLET
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DW	DISH WASHER
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN / EACH FACE
EIFS	EXTERIOR INSUL & FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EL	ELEVATION
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FIN	FINISH
FL	FLOOR
FT	FIRE TREATED
FTG	FOOTING
FURR	FURRING
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
H/C	HANDICAPPED
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HYD	HYDRANT
ID	INSIDE DIAMETER
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LF	LINEAL FOOT
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFGR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANOUS
MO	MASONRY OPENING
MTL	METAL
MUL	MULLION
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
OV HD	OVER HEAD
PERF	PERFORATED
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
P/P	POWER PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED / PORCELAIN TILE
PTD	PAINT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS / THERMAL RESISTANCE / RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
RUB	RUBBER
RWC	RAIN WATER CONDUCTOR
RWL	RAIN WATER LEADER
SAFB	SOUND ATTENUATION FIBERGLASS BATTS
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SGFT	STRUCTURAL GLAZED FACING TILE
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
ST	STORM DRAIN TILE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SW	SWITCH
SYST	SYSTEM
T	TREAD
T & B	TOP AND BOTTOM
TC	TOP OF CURB
T & G	TOUNGE & GROUVE
TEMP	TEMPORARY
TH	THRESHOLD
THK	THICKNESS
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
U/S	UNDERSLAB
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VL	VISION LITE
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITH OUT
WC	WALL COVERING
WD	WOOD
WDO	WINDOW
WT	WALL TILE
WWF	WELDED WIRE FABRIC

SYMBOLS

BUILDING SECTION IDENTIFICATION — BUILDING SECTION LETTER; SHEET DETAILED ON

WALL SECTION IDENTIFICATION — SECTION NUMBER; SHEET DETAILED ON

PARTIAL SECTIONS OR DETAILS IDENTIFICATION — SECTION NUMBER; SHEET DETAILED ON

PLAN DETAIL IDENTIFICATION — AREA TO BE DETAILED; DRAWING NUMBER OR LETTER; SHEET DETAILED ON

ELEVATION IDENTIFICATION — PARTICULAR ELEVATION; ELEVATION NUMBER OR LETTER; SHEET DETAILED ON

DRAWING TITLE IDENTIFICATION — DETAIL/NAME, SCALE; DRAWING NUMBER OR LETTER

DOOR / WINDOW NUMBER — XX

MILLWORK TYPE — C-2

DRAWING NOTES — XX

REVISION NUMBER — 2

ROOM NUMBER — ROOM NAME, XXX

ELEVATION TARGET — 0'-0" SURFACE

PARTITION TYPES — 2

NORTH ARROW

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

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DRAWING TITLE:

ABBREVIATIONS, SYMBOLS, ACCESSIBILITY STANDARDS & NOTES

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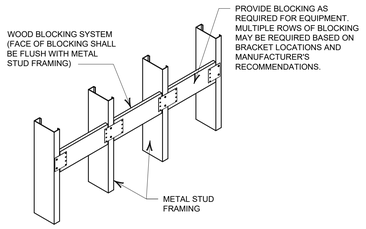
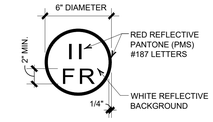
SCALE: AS SHOWN	A-001
DRAWN BY: AH	
CHECKED BY: DHH	
PROJECT No: 23-006	



STANDARD WOOD BLOCKING DETAIL

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



PROVIDE THE FOLLOWING GRAPHIC SIGN TO EACH EXTERIOR DOOR OR ATTACHED TO A SIDELIGHT OR THE FACE OF THE BUILDING, NOT MORE THAN 12" HORIZONTALLY FROM THE LATCH SIDE OF THE DOOR JAMB, AND NOT LESS THAN 42" NOR MORE THAN 60" ABOVE THE ADJOINING WALKING SURFACE. PLACE THE GRAPHIC ON THE INTERIOR SIDE OF DOORS WITH CLEAR GLAZING. FOR ALL OTHER DOORS PLACE THE SIGNAGE ON THE EXTERIOR FACE OF THE DOOR.

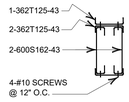
TRUSS IDENTIFICATION SYMBOL

SCALE : N.T.S.



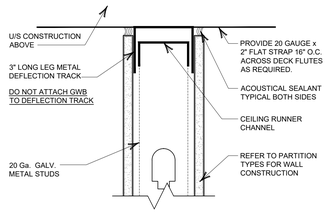
POST DETAIL

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



BOX BEAM HEADER DETAIL

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



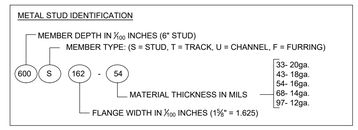
DEFLECTION TRACK NON- RATED PARTITION

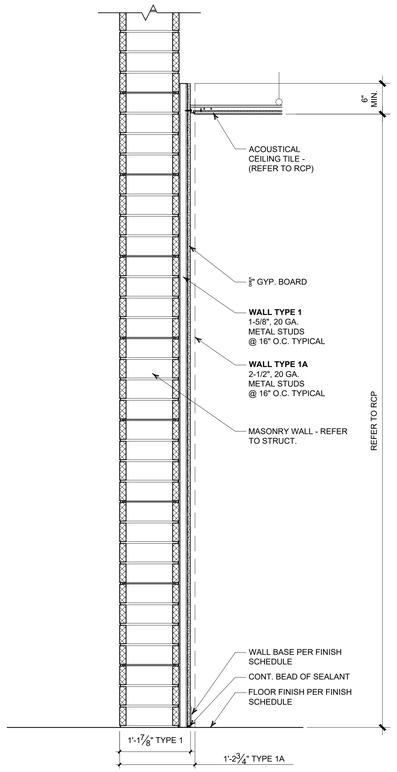
SCALE : 3" = 1'-0"

NOTES FOR WALL TYPES:

1. WHERE BEAMS, TRUSSES, BRIDGING, ETC. PASS THRU PARTITIONS, PROVIDE SLOTTED OPENING IN GYPSUM BOARD TO ALLOW FOR DEFLECTION. OPENING TO BE TIGHT TO MEMBER AT TOP AND EXTEND TO 1" BELOW AT BOTTOM INFILL OPENING FULL OF FIRE STOPPING MATERIAL.
2. ALL STUDS TO BE A MINIMUM OF 20 GAGE WITH A 1 ⅝" FLANGE.
3. ALL OUTSIDE CORNERS TO HAVE CONT. GALV. METAL CORNER BEAD, FULL HEIGHT UNLESS OTHER CORNER TRIM IS PROVIDED.
4. INSTALL 20 Ga. x 2" w GALV. METAL STRAPS @ 16" O/C, MAX. AS REQ'D. WHERE PARTITIONS RUN PARALLEL TO DIRECTION OF DECK FLUTES.
5. SEE ARCHITECTURAL PLANS FOR LOCATION AND DIMENSIONS OF ALL LIGHT GAGE METAL FRAMING.
6. THE LAYOUT SHOWN IS THE RECOMMENDED SCHEME. FINAL SIZES, LOCATIONS, AND DETAILS ARE TO BE PROVIDED BY THE LIGHT GAGE METAL FABRICATOR.
7. CALCULATIONS AND DETAILED SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW. IF A DIFFERENT STUD SYSTEM IS TO BE USED, THE RESPONSIBILITY FOR THE DESIGN OF ALL MEMBERS UNDER THE APPLIED LOADS SHALL BE THE SOLE RESPONSIBILITY OF THE LIGHT METAL FABRICATOR. DRAWINGS SHALL INCLUDE ALL DESIGN COMPUTATIONS FOR THE FRAMING MEMBERS AND CONNECTIONS AND MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.
8. ALL 12, 14, AND 16 GAGE LIGHTWEIGHT STEEL FRAMING MEMBERS SHALL SATISFY THE REQUIREMENTS OF ASTM A446 GRADE D, WITH A MINIMUM YIELD STRENGTH OF 50,000 P.S.I. ALL 18 & 20 GAGE LIGHTWEIGHT STEEL FRAMING MEMBERS SHALL BE MANUFACTURED FROM STEEL FABRICATED IN ACCORDANCE WITH ASTM A446, GRADE B, WITH A MINIMUM YIELD STRENGTH OF 33,000 P.S.I.
9. ALL MATERIALS SHALL BE HOT-DIPPED GALVANIZED STEEL FOR GREATER CORROSION RESISTANCE, CONFORMING TO FEDERAL SPECIFICATION QQS-775, TYPE 1, CLASS D AND ASTM A525.
10. ALL FIELD ABRASIONS TO MEMBERS FROM WELDING SHALL BE TOUCHED UP WITH A ZINC RICH PAINT.
11. CONNECTIONS OF LIGHT STEEL FRAMING MEMBERS SHALL BE BY SELF DRILLING SCREWS OR BY WELDING IN STRICT ACCORDANCE WITH THE MANUFACTURERS' REQUIREMENTS. WIRE TIEING OF FRAMING MEMBERS WILL NOT BE PERMITTED.
12. TOP AND BOTTOM TRACKS SHALL BE SECURELY ANCHORED TO CEILING OR ROOF STRUCTURE OVERHEAD AND TO FLOOR STRUCTURE BELOW. SILL OR BASE TRACK SHALL BE ANCHORED WITH ANCHOR BOLTS, CONCRETE NAILS, POWDER ACTUATED FASTENERS, SCREWS, EXPANSION BOLTS OR BY WELDING. MAXIMUM SPACING FOR ANCHORS SHALL BE 24" ON CENTER AND NO NEARER THAN 4" FROM EITHER END OF TRACK. CONNECTION OF STUDS TO TRACKS AT THE UNDERSIDE OF THE STEEL BEAMS OR OTHER ROOF FRAMING MEMBERS SHALL HAVE A SLIP OR SLOTTED CONNECTION AS REQUIRED TO ALLOW FOR VERTICAL DEFLECTION OF THE ROOF FRAMING MEMBER.
13. STUD BRIDGING REQUIREMENTS:
    UP TO 10'-0" IN HEIGHT: TWO ROWS OF BRIDGING, EQUALLY SPACED OVER 10'-0" IN HEIGHT: BRIDGING ROWS SPACED 3'-4" ON CENTER MAXIMUM.
14. ALL STUDS OVER 15'-0" MUST BE BRACED AT A 45° ANGLE @ 48" O.C. STARTING @ 15'-0" A.F.F. BRACING TO BE SAME AS WALL STUDS AND GO TO UNDERSIDE OF DECK OR STRUCTURAL STEEL. BRACING IS NOT TO BE SEEN.

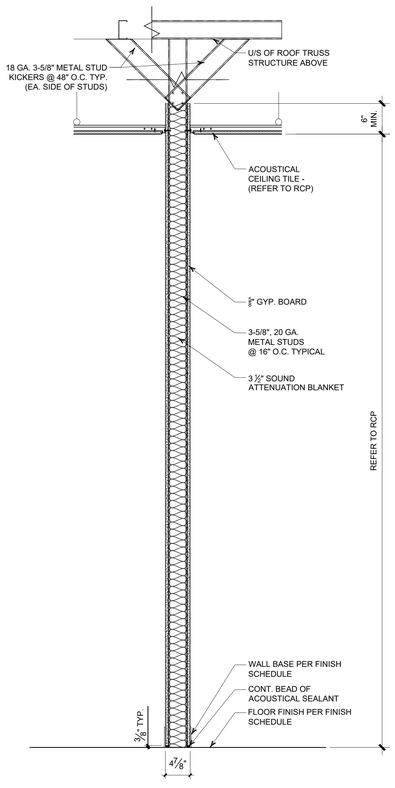
METAL STUD IDENTIFICATION



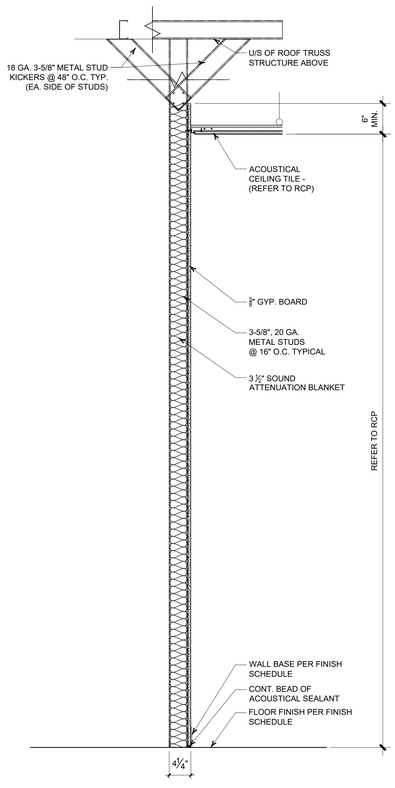


TYPE 1
NON-RATED
NON-LOAD BEARING

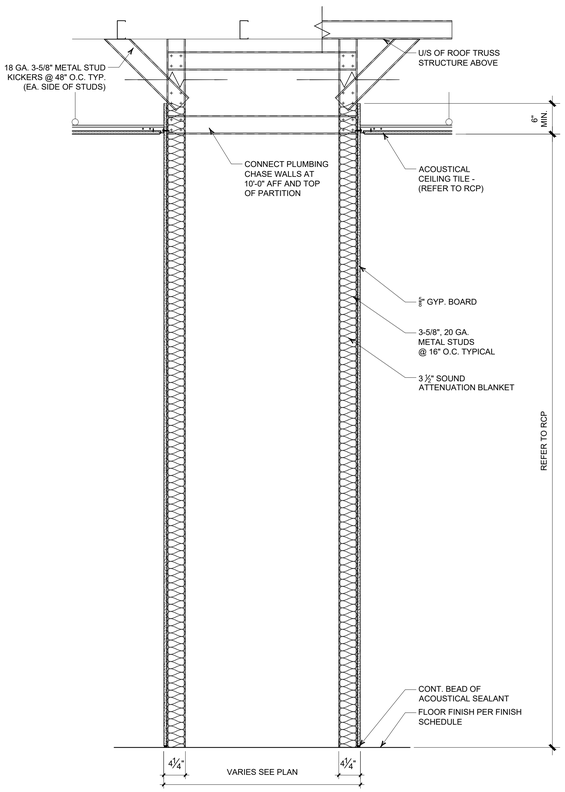
TYPE 1A
NON-RATED
NON-LOAD BEARING



TYPE 2
NON-RATED
NON-LOAD BEARING



TYPE 3
NON-RATED
NON-LOAD BEARING



TYPE 4
NON-RATED
NON-LOAD BEARING

WALL TYPES

SCALE : 1" = 1'-0"

GENERAL NOTE:
- IN LIEU OF 5/8" GYP. BD., PROVIDE 5/8" MOISTURE RESISTANT GYP. BD. AT KITCHEN AND TOILET ROOMS PAINTED AREAS AND PROVIDE (1) LAYER OF 5/8" CEMENT BOARD AT TOILET ROOM WALL TILE AREAS & SINK LOCATIONS.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

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DRAWING TITLE:

PARTITION TYPES AND DETAILS

DATE: 4-17-26	DRAWING No.
SCALE: AS SHOWN	A-002
DRAWN BY: AH	
CHECKED BY: DHH	
PROJECT No: 23-006	

GENERAL CONSTRUCTION NOTES

A. EXTERIOR AND INTERIOR WALLS SHALL BE SPEC-BRIK (BASIS OF DESIGN) CONCRETE MASONRY WALL (CMU). EXTERIOR & INTERIOR FINISH SHALL MATCH.
PRODUCT: HI-R-H HALF HIGH DENSITY = 95 LBS/FT³, ONE WEB, 12d x 4h x 16w UNITES (NOMINAL) REINFORCED PER THE DWG'S & MANUFACTURE STANDARDS W/ MANUFACTURER PROVIDED CORE INSULATION MIN R = 17.87 (TOTAL)

B. PROVIDE BOND BEAM OR STRUCTURAL STEEL LINTEL FOR ALL ACCESS PANELS, EQUIPMENT LOCATED WITHIN OR THROUGH WALL PENETRATIONS. REFER TO STRUCT. AND MEP DWG'S FOR QUANTITY, LOCATIONS AND DETAILS

C. REFER TO DRAWING A-601 FOR ENLARGED FLOOR PLANS; TOILET ROOMS, CONCESSIONS, CONFERENCE ROOMS, ETC. FOR DIMENSIONS, PARTITION TYPES, ADA/ACCESSIBLE TURNING/CLEARANCES, DETAILS, ETC.

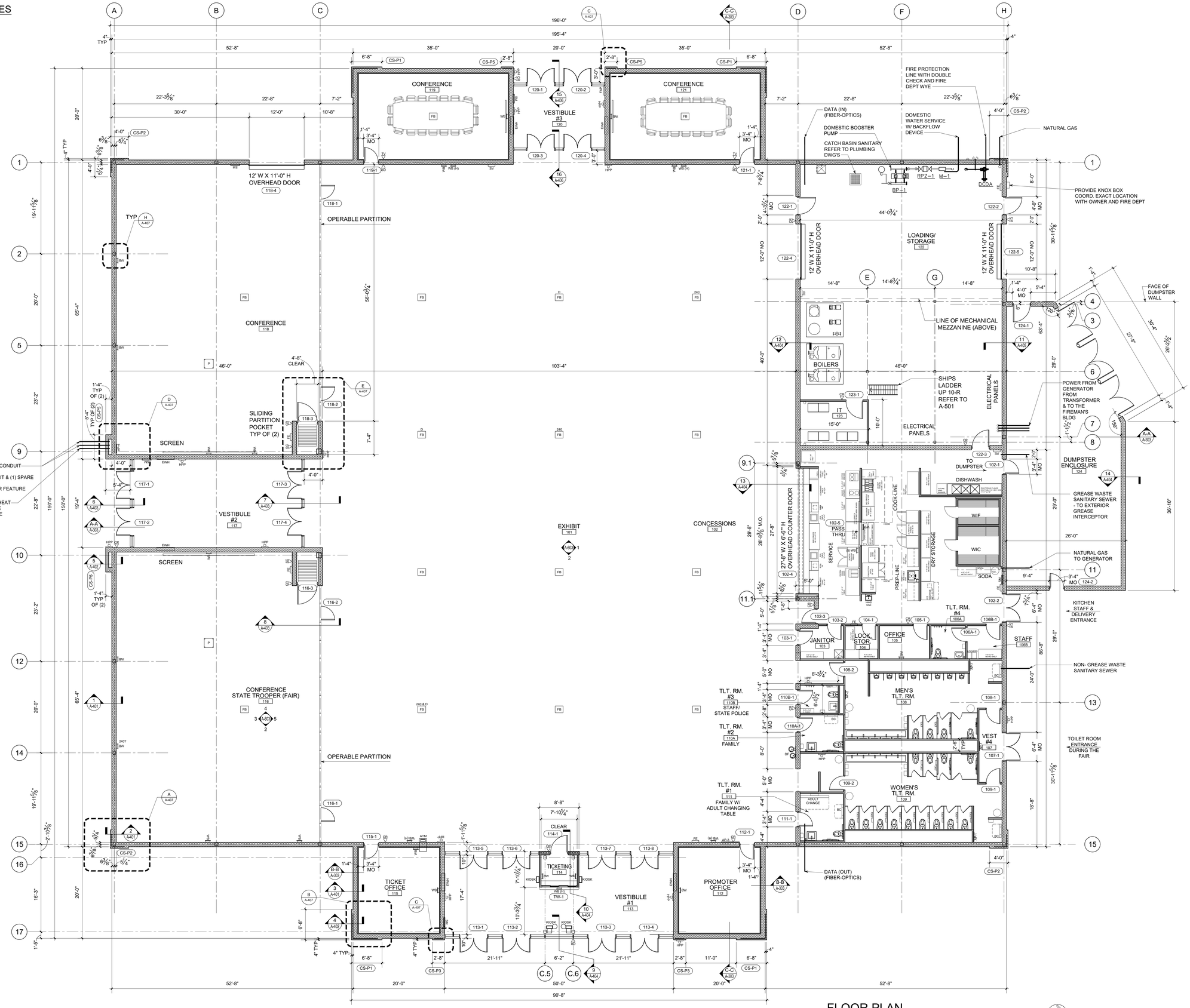
D. REFER TO CIVIL DRAWINGS FOR ALL EXTERIOR WORK INCLUDING DUMPSTER/GENERATOR ENCLOSURE AND ALL BUILDING UTILITIES

E. ALL DIMENSIONS INDICATED ON PLAN ARE FROM FACE OF FINISH TO FACE OF FINISH - UNLESS NOTED OTHERWISE. FINISHED FACE IS DEFINED AS THE FACE OF PLYWOOD SHEATHING, FACE OF CONCRETE, FACE OF GWB.

F. PROVIDE SOLID WOOD BLOCKING WITHIN ALL PARTITIONS AS REQUIRED TO ACCOMMODATE ANY AND ALL FIXTURES INCLUDING (BUT NOT LIMITED TO): GRAB BARS, TOILET ACCESSORIES, MILLWORK, SHELVING, GLAZING, FIXTURES, SIGNAGE, ETC.

G. ALL FINISHES SHALL BE CLASS "A" AS SELECTED BY THE OWNER.

H. ALL FIRE EXTINGUISHERS AND CABINETS LOCATIONS SHALL BE REVIEWED WITH THE OWNER AND BUILDING DEPTARTMENT PRIOR TO INSTALLATION



LEGEND:

- METAL STUD PARTITION WALL REFER TO PARTITION TYPES
- CMU WALL: SPEC-BRIK
- WINDOW (STOREFRONT OR CURTAIN WALL SYSTEM)
- DOOR AND FRAME
- 1 — KEYED NOTES
- 1 — PARTITION TYPE
- LINTEL REFER TO SCHEDULE
- 101-0 — DOOR TAGS
- W-00 — WINDOW TAGS
- CR — CARD READER (PROVIDED BY OWNER'S SECURITY CONTRACTOR)
- FE — FIRE EXTINGUISHER
- HPP — HANDICAP PUSH PADDLE DOOR OPERATOR
- P — PROJECTOR - CEILING MOUNT
- SC — SWITCH FOR PROJECTOR SCREEN
- TV — SWITCH TV
- WB — WALL BOX W/ POWER AND DATA
- 240 & D / FB — FB - FLOOR BOX 240 - W/ (1) 240 RECEPT. D - W/ (1) HARDWIRE DATA
- AP-0 — ACCESS PANEL
- EWH — ELECTRIC WALL HEATER REFER TO MECH. DWG'S

FLOOR PLAN

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

32,850± SF

FAIRGROUNDS
Erie County Agricultural Society

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SLADE PARK BUILDING

△ ISSUED FOR BID AND PERMIT 11-20-26

No. REVISIONS DATE

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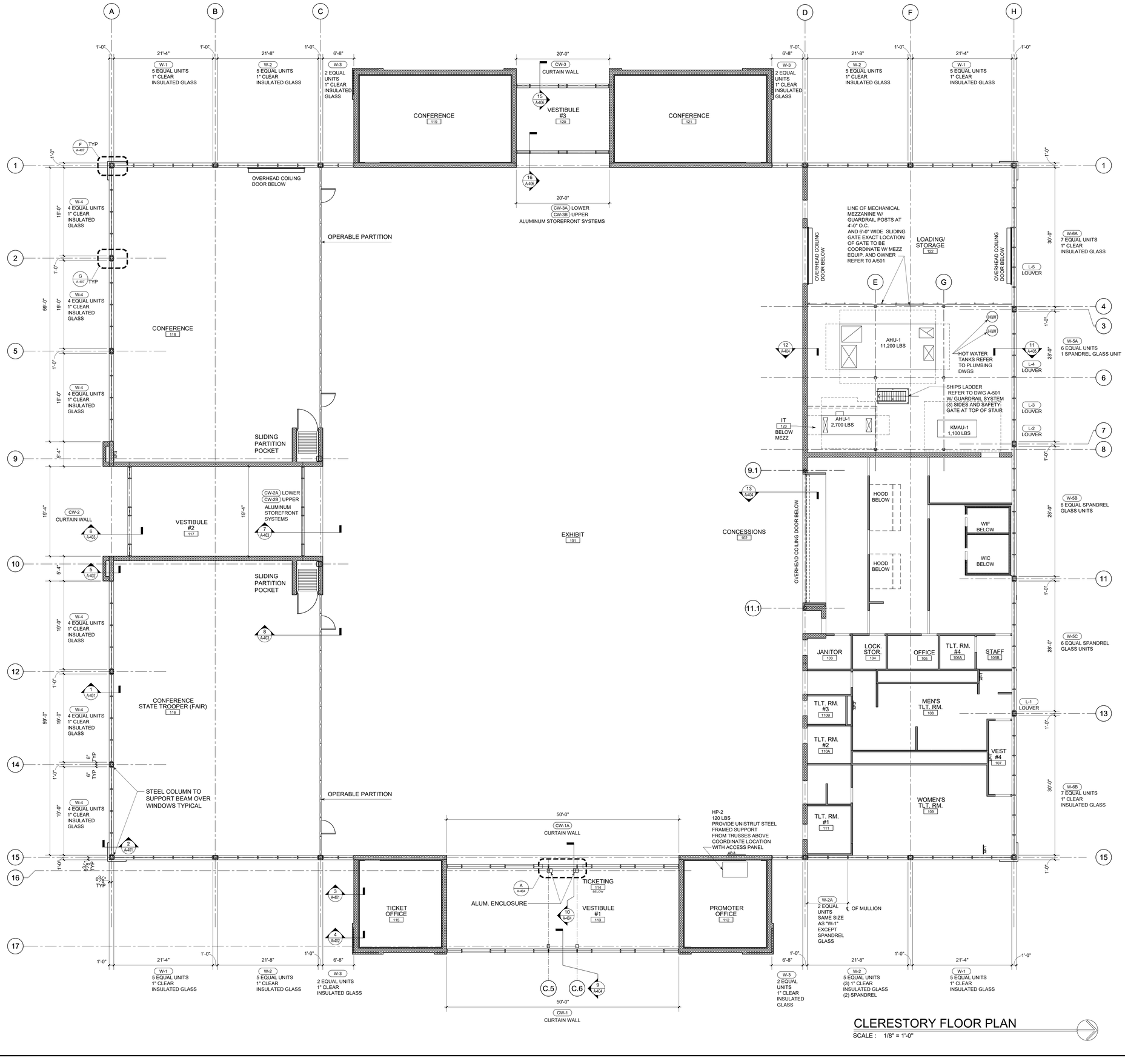
DRAWING TITLE:

FLOOR PLAN

DATE: 2-19-26
SCALE: AS SHOWN
DRAWN BY: DHH
CHECKED BY:
PROJECT No: 23-006

DRAWING No.

A-101



CLERESTORY FLOOR PLAN

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

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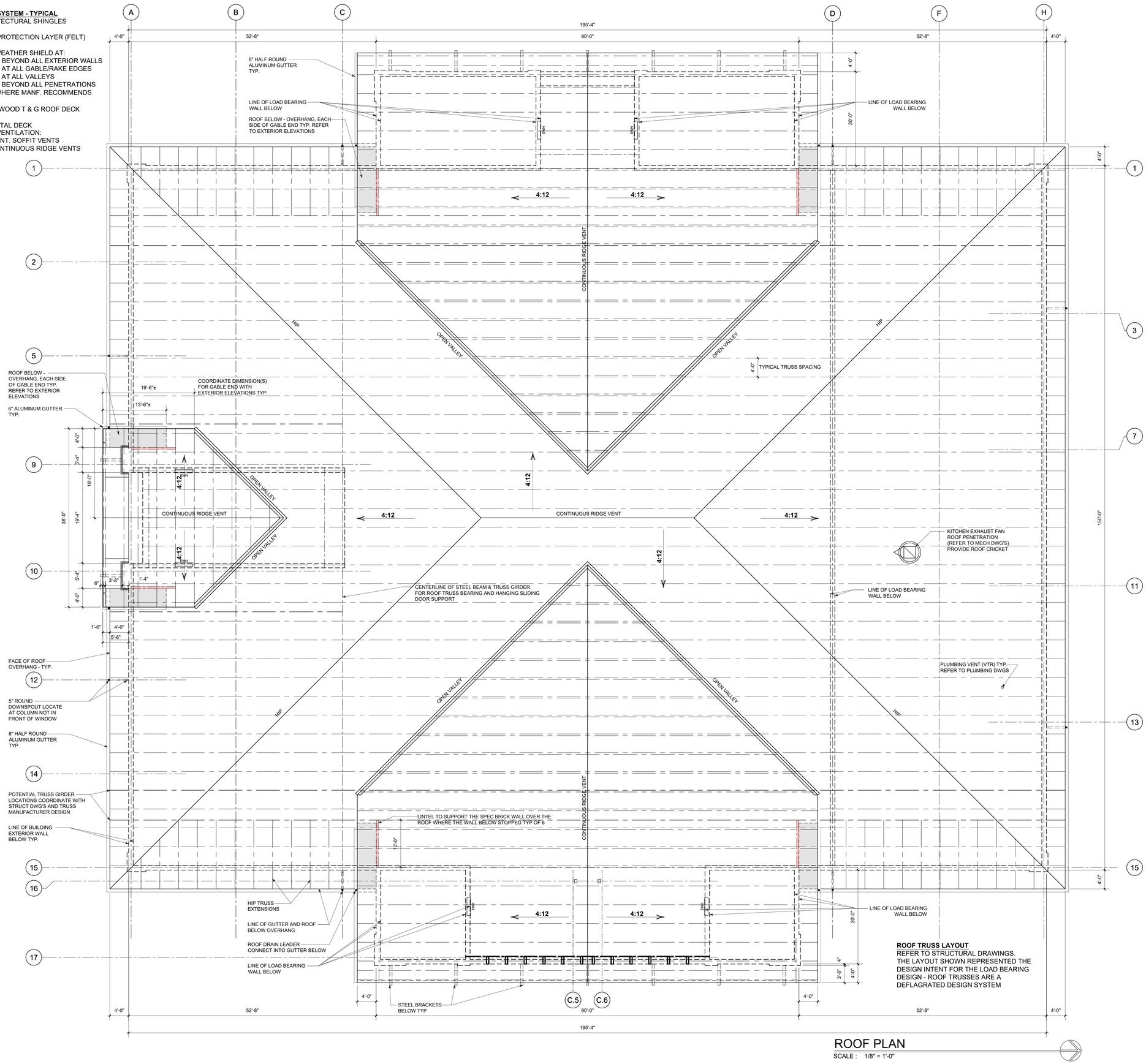
DRAWING TITLE:

CLERESTORY
PLAN

DATE: 2-19-26	DRAWING No.
SCALE: AS SHOWN	A-102
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	

ROOF SYSTEM - TYPICAL
ARCHITECTURAL SHINGLES
OVER
ROOF PROTECTION LAYER (FELT)
OVER
ICE & WEATHER SHIELD AT:
- 2' BEYOND ALL EXTERIOR WALLS
- 3' AT ALL GABLE/RAKE EDGES
- 3' AT ALL VALLEYS
- 3' BEYOND ALL PENETRATIONS
- WHERE MANF. RECOMMENDS

OVER
¾" PLYWOOD T & G ROOF DECK
OVER
1 ½" METAL DECK
ROOF VENTILATION:
- CONT. SOFFIT VENTS
- CONTINUOUS RIDGE VENTS



ROOF TRUSS LAYOUT
REFER TO STRUCTURAL DRAWINGS.
THE LAYOUT SHOWN REPRESENTED THE DESIGN INTENT FOR THE LOAD BEARING DESIGN - ROOF TRUSSES ARE A DEFLAGRATED DESIGN SYSTEM

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

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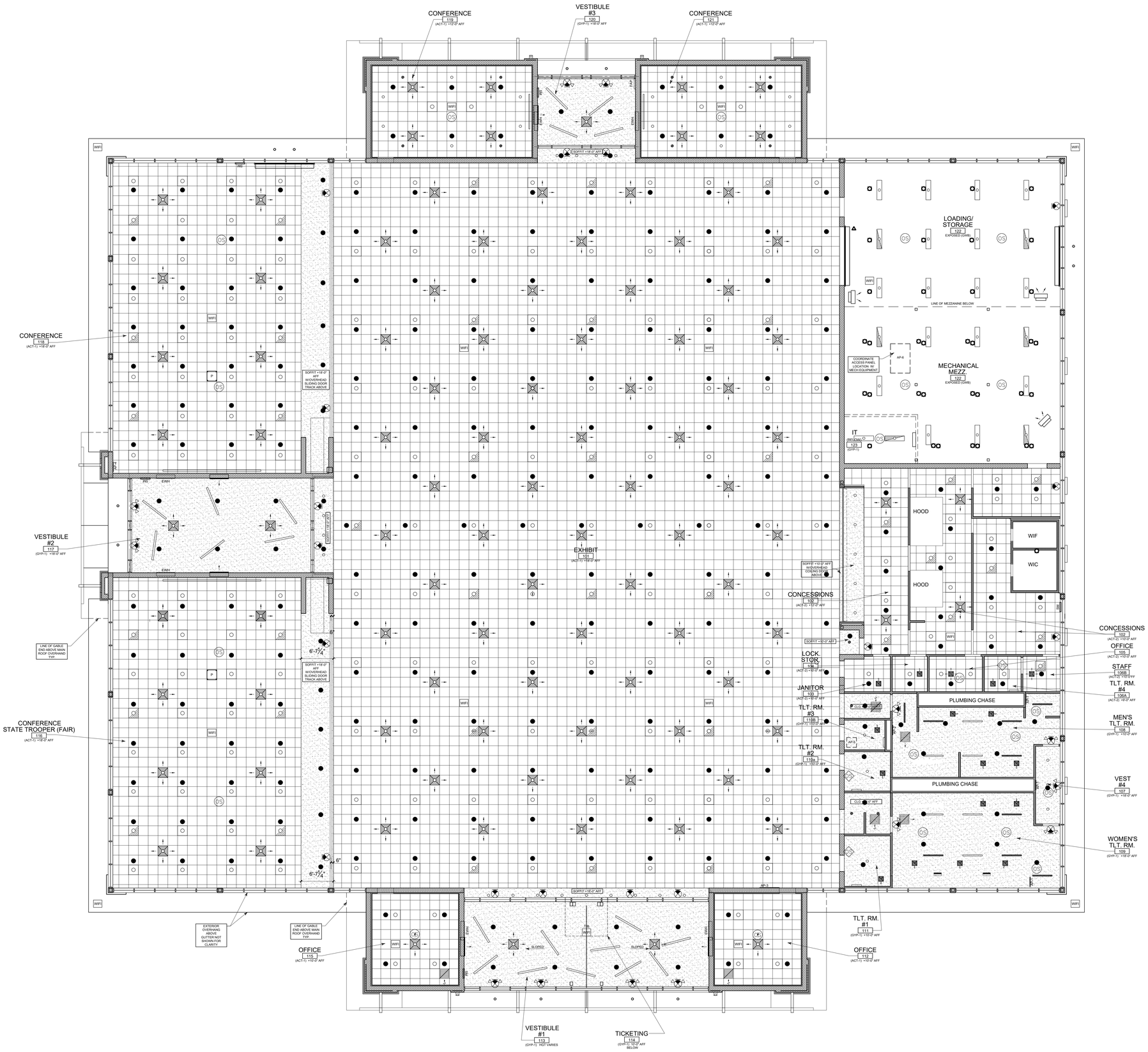
ROOF PLAN

DATE: 2-19-26	DRAWING No.
SCALE: AS SHOWN	A-103
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	

LEGEND

- 2'X2' LIGHT FIXTURES
- 2'X2' LIGHT FIXTURES W/ INTEGRATED EMERGENCY LIGHTS
- 1'X4' CEILING MOUNTED LIGHT FIXTURE
- 1'X4' CEILING MOUNTED LIGHT FIXTURE W/ INTEGRATED EMERGENCY LIGHTS
- DOWNLIGHT
- DOWNLIGHT W/ INTEGRATED EMERGENCY LIGHTS
- EXTERIOR SOFFIT DOWNLIGHT W/ INTEGRATED EMERGENCY LIGHTS
- EXTERIOR DECORATIVE WALL MOUNTED LINEAR LIGHT
- EXTERIOR WALL MOUNTED LINEAR LIGHT
- LED LINEAR CEILING MOUNTED LIGHT (VESTIBULE) TO BE MOUNTED AT DIFFERENT ANGLES & HEIGHTS
- ACOUSTICAL 2X2 CEILING TILE
- GYP BOARD CEILING
- WALL MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED OCCUPANCY SENSOR
- WIFI HUB
- EXIT LIGHTING
- EXIT LIGHTING W/ INTEGRATED EMERGENCY LIGHTS
- SPRINKLER HEAD
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST FAN
- WALL MOUNTED AIR DIFFUSER
- AP-N IN-CEILING ACCESS PANEL



REFLECTED CEILING PLAN - TICKETING

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

REFLECTED CEILING PLAN (BASE BID)

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

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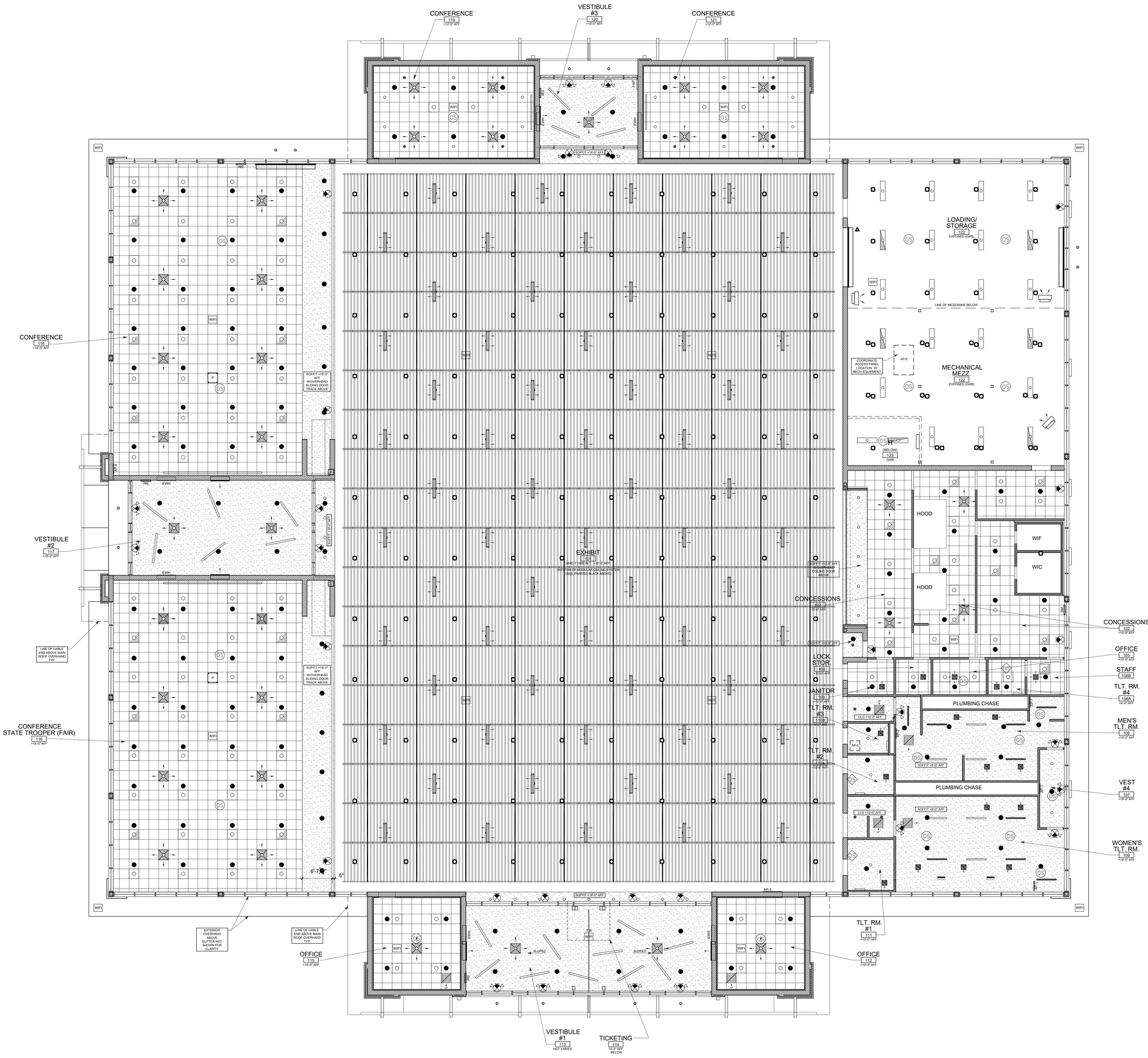
DRAWING TITLE:

REFLECTED CEILING PLAN

DATE: 11-06-26	DRAWING No.
SCALE: AS SHOWN	A-201
DRAWN BY: AH	
CHECKED BY:DHH	
PROJECT No: 23-006	

LEGEND (BID ALTERNATE)

- LINEAR SUPPLY AIR DIFFUSER
- USG MODULAR ACOUSTICAL CEILING SYSTEM
- USG MODULAR ACOUSTICAL CEILING SYSTEM W/ INTEGRATED LED LINEAR LIGHT. REFER TO ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTS LOCATIONS



REFLECTED CEILING PLAN (BID ALTERNATE #5)

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

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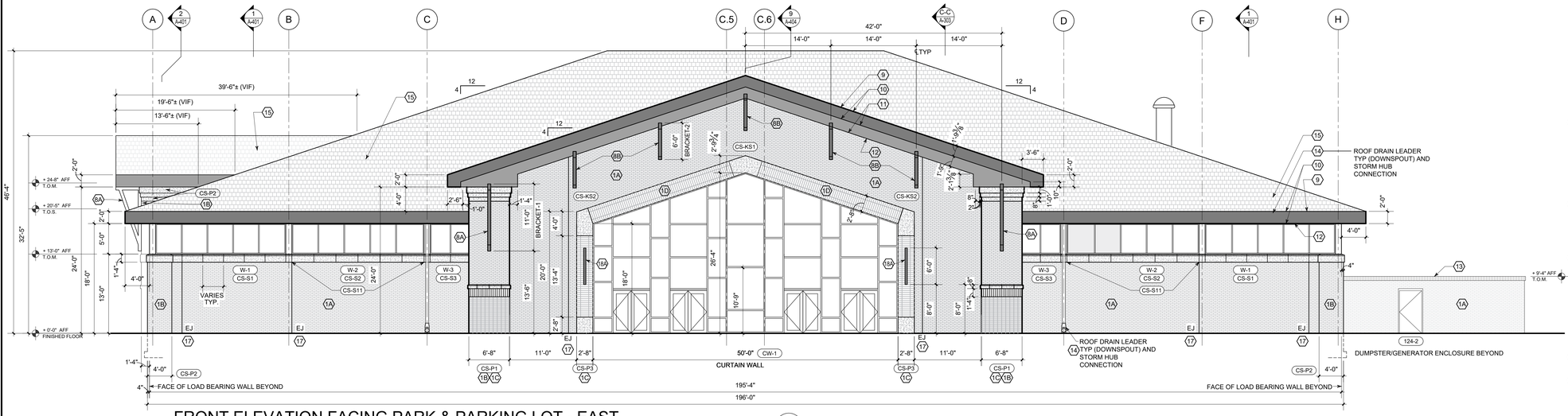
DRAWING TITLE:

REFLECTED CEILING PLAN (BID ALTERNATE No. 5)

DATE:	11-06-26
SCALE:	AS SHOWN
DRAWN BY:	AH
CHECKED BY:	DHH
PROJECT No:	23-006

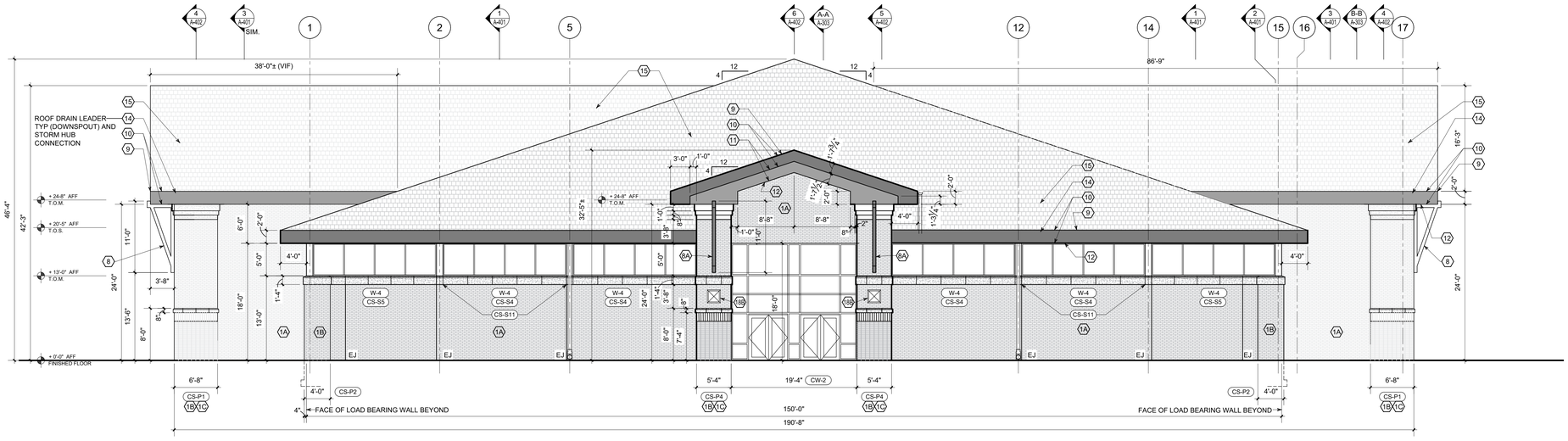
DRAWING No.
A-202 ALT



FRONT ELEVATION FACING PARK & PARKING LOT - EAST

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

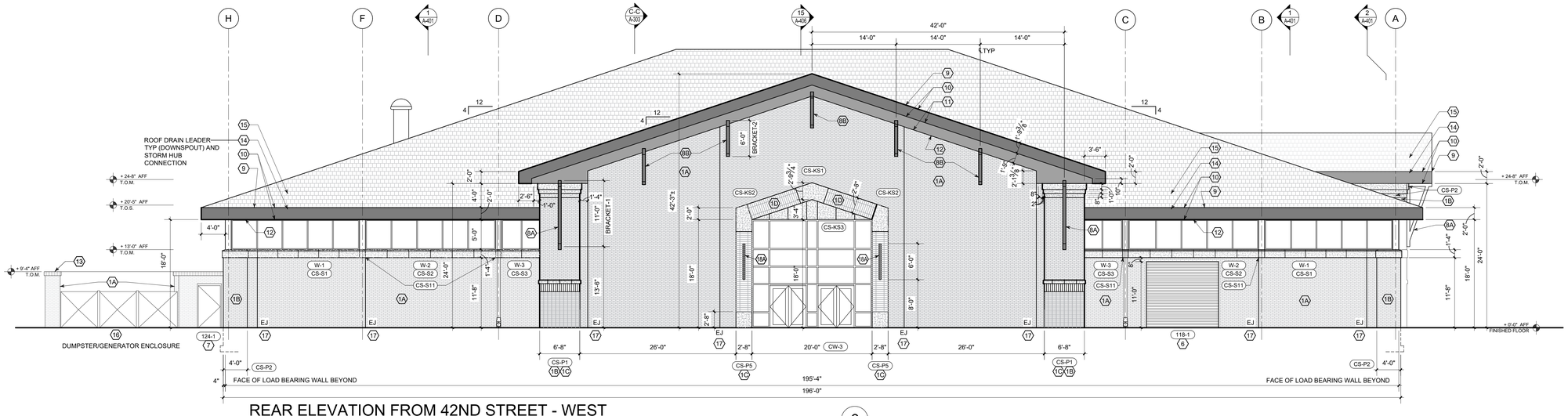
1



SIDE ELEVATION FACING GRANGE BUILDING AND PARK- SOUTH

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

2



REAR ELEVATION FROM 42ND STREET - WEST

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

3

EXTERIOR MATERIALS AND COLOR LEGEND

MANUFACTURERS LISTED ARE BASIS OF DESIGN PRODUCTS FOR MATERIAL QUALITY AND COLOR SELECTIONS

1. SPEC-BRIK: CONCRETE MASONRY UNIT
   MATCHING EXTERIOR AND INTERIOR FINISH AND COLOR
   (1A) FIELD COLOR: FLINT BLEND
   (1B) PILASTER ACCENT: BASALT BLEND
   (1C) SOLDIER AND STACKED UNIT ACCENT: BASALT BLEND

   MORTAR COLOR: TBD

2. (CS-00) CAST STONE: BANDS, SILLS PILASTER CAPS AND BASES, AND KEY STONES
   LOCAL MANF.: SOUTHSIDE PRECAST PRODUCTS
   COLOR: DESERT BUFF (A) / LIGHT ETCH (DEB20A-LE)

   MORTAR COLOR: TBD

   WEEP FOR SPEC BRICK AND CAST STONE (NOT SHOWN REFER TO DETAILS)
   COLOR: TBD (MATCH ADJACENT MATERIAL COLOR)

3. (W-00) ALUMINUM STOREFRONT SYSTEM (TUBELIGHT TU14000 SERIES)
   COLOR: BLACK ANODIZED

   GLAZING (GLASS): REFER TO GLAZING SCHEDULE
   (3A) SPANDREL UNIT COLOR: BLACK

4. (CW-00) CURTAIN WALL SYSTEM (TUBELIGHT CW400 SERIES)
   COLOR: BLACK ANODIZED

   GLAZING (GLASS): REFER TO GLAZING SCHEDULE
   (4A) SPANDREL UNIT COLOR: BLACK (INTERIOR)

5. (L-0) METAL LOUVER: REFER TO MECHANICAL DRAWINGS
   LOUVER SHALL BE MULLED INTO ALUMINUM STOREFRONT SYSTEM
   COLOR: BLACK (MATCH ALUM. STOREFRONT SYSTEM)
   LOUVER IN SPEC-BRIK FIELD
   COLOR: BLACK

6. (101-0) COILING DOORS: CORNELL
   COLOR: TBD

7. (101-0) HOLLOW METAL DOORS AND FRAMES:
   COLOR: PAINT TBD

8. DECORATIVE STEEL BRACKET
   COLOR: PAINT BLACK (SW TBD)
   (8A) BRACKET - 1
   (8B) BRACKET- 2

9. PREFINISHED ALUMINUM DRIP EDGE:
   MANF: ATAS
   COLOR: BLACK

10. FASCIA- ROOF EDGE AND GABLE END UPPER FASCIA:
    MANF: ATAS
    MODEL: STERRACORE METAL COMPOSITION PANEL
    COLOR: BLACK

11. PREFINISHED ALUMINUM FASCIA - GABLE END, RECESSED SECOND TIER FASCIA
    MANF: ATAS
    MODEL: FLAT SHEET AND COIL
    COLOR: WHITE
    COLOR: BID ALTERNATE #_____ WOOD GRAIN FINISH -TBD

12. SOFFIT PANEL (UNDERSIDE OF OVERHAND - REFER TO DETAILS - NOT VISIBLE)
    MANF: ATAS
    MODEL: WINDLOK - VENTED 100%
    COLOR: WHITE
    COLOR: BID ALTERNATE #_____ WOOD GRAIN FINISH -TBD

13. PREFINISHED ALUMINUM COPING: DUMPSTER ENCLOSURE CAP
    MANF: ATAS
    MODEL: TBD
    COLOR: BLACK

14. PREFINISHED ALUMINUM GUTTER AND DOWNSPOUT
    8" HALF-ROUND GUTTER
    5" ROUND DOWNSPOUT
    COLOR: BLACK
    NOTE: GUTTER NOT SHOW FOR CLARITY
    REFER TO ROOF PLAN

15. ASPHALT SHINGLES
    MANF: CERTAINTEED (SAINT GOBAIN)
    COLOR: COLONIAL SLATE

16. WOOD GATES: DUMPSTER ENCLOSURE
    STAIN COLOR: TBD
    HARDWARE AND POST COLOR: BLACK

17. SEALANTS: (REFER TO DETAILS FOR ALL LOCATIONS)
    MOCK-UP REQUIRED WITH MIN. 3 COLORS CLOSEST TO GENERAL
    COLOR LISTED BELOW
    MANF: DOW CORNING (SILICONE) COLOR HIERARCHY LISTED IN ORDER
    (17A) BLACK: ADJACENT TO ALUMINUM STOREFRONT OR CURTAIN WALLS
    (17B) NATURAL: ADJACENT TO CAST STONE:
    (17C) CHARCOAL OR BLACK: SPEC-BRIK EXPANSION JOINTS

18. LIGHT FIXTURES: REFER TO ELECTRICAL DRAWINGS
    (18A) TYPE F-1: 6' VERTICAL FIXTURE (DECORATIVE)
    (18B) TYPE F-2: SQUARE FIXTURE (DECORATIVE)
    (18C) TYPE F-3 DOOR EGRESS LIGHT FIXTURE

MECHANICAL AND PLUMBING EQUIPMENT PENETRATIONS THROUGH THE ROOF AND WALLS SHALL BE BLACK. REFER TO MEP DRAWINGS FOR LOCATIONS AND DEVICES AS THEY NOT BE SHOWN ON THE EXTERIOR ELEVATIONS

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Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

LEGEND:

101-0	DOOR TAGS
W-00	WINDOW - ALUMINUM STOREFRONT TAGS
CW-00	CURTAIN WALL ENTRY TAGS
L-0	METAL LOUVERS (HVAC)
CS-00	CAST STONE TAGS
0	EXTERIOR MATERIAL TAG

No.	REVISIONS	DATE
	ISSUED FOR BID AND PERMIT	11-20-26

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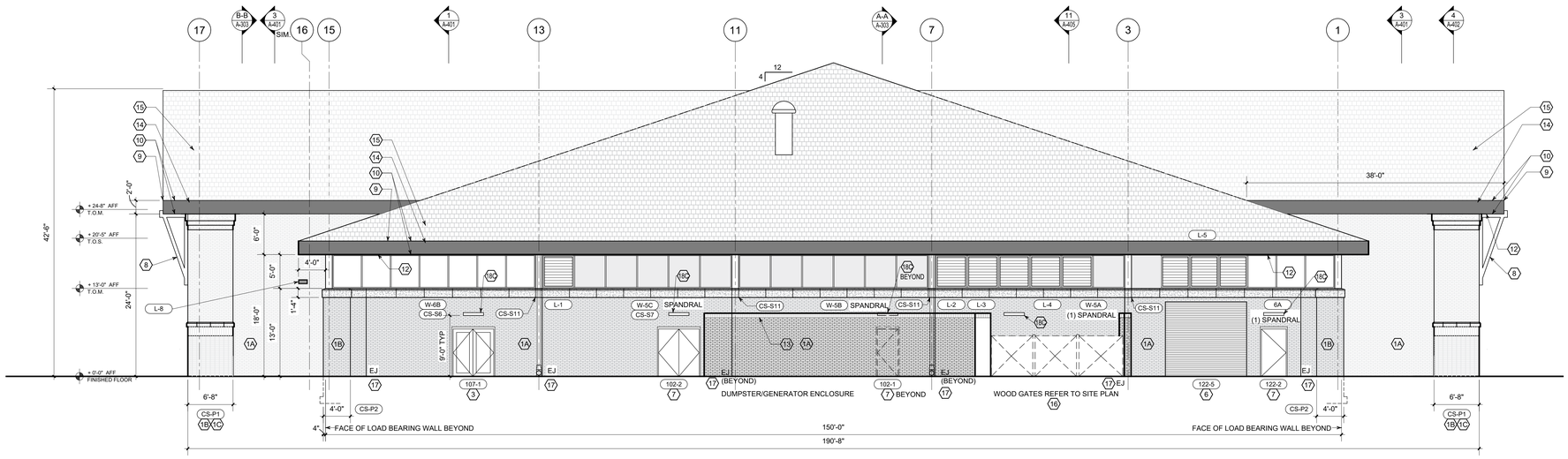
EXTERIOR ELEVATIONS

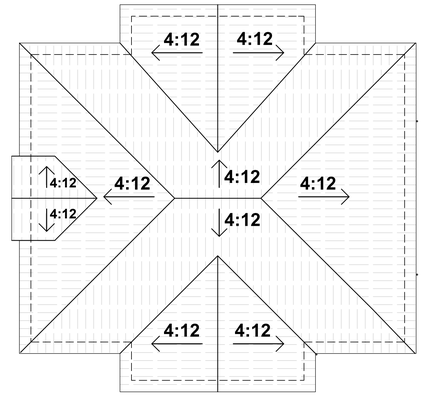
DATE: 2-19-26	DRAWING No.
SCALE: AS SHOWN	A-301
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	



SIDE ELEVATION FACING FIREMAN'S BUILDING - NORTH

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

4



ROOF DIAGRAM

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

FAIRGROUNDS
Erie County Agricultural Society

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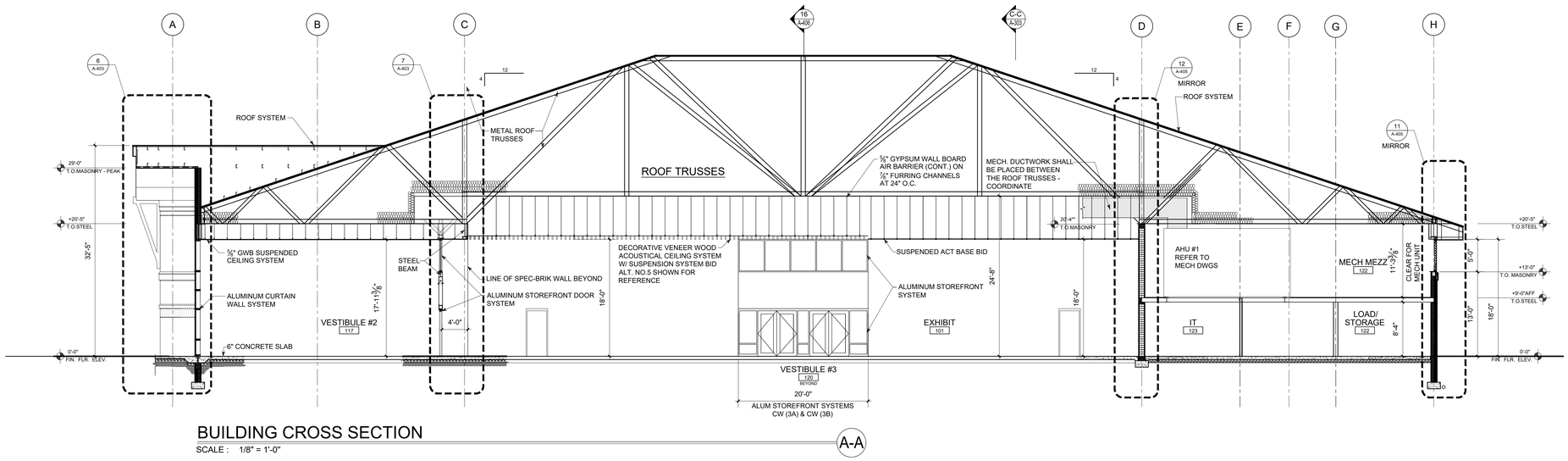
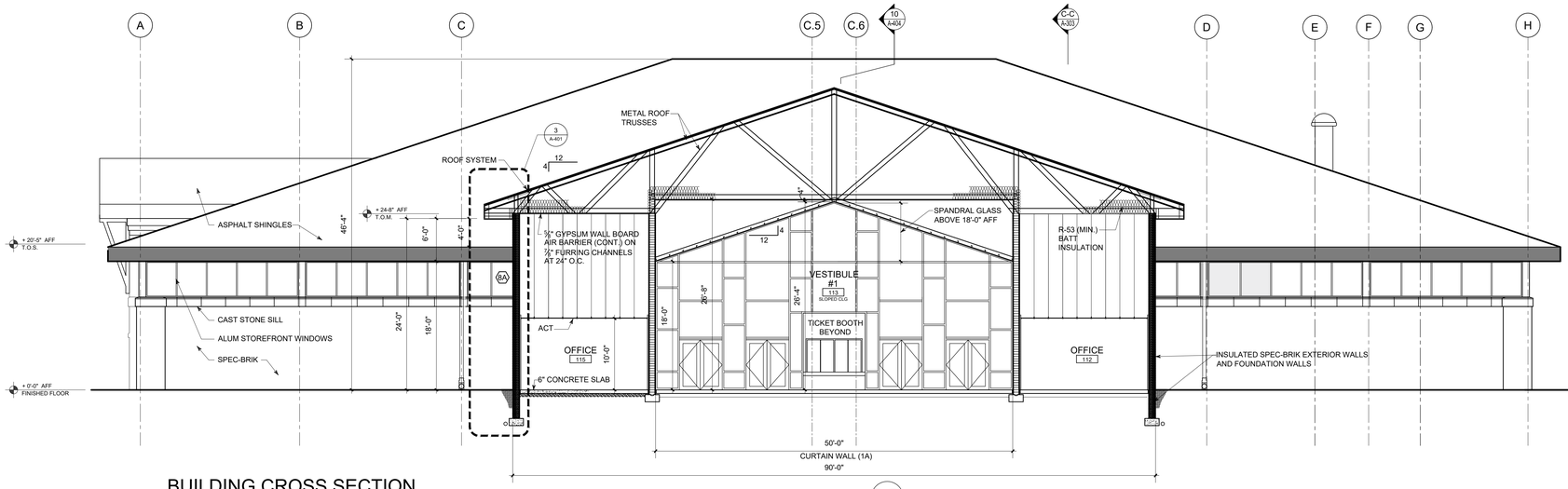
PROJECT No: 23-006	



BUILDING CROSS SECTION

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

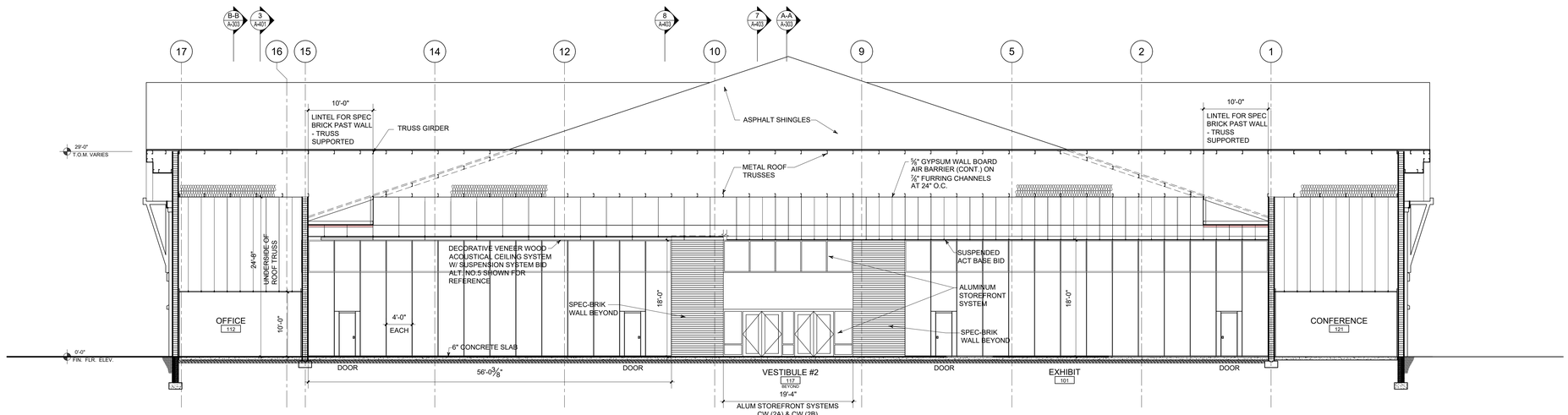
A-A



BUILDING CROSS SECTION

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

B-B



BUILDING CROSS SECTION

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

C-C

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BUILDING CROSS SECTIONS

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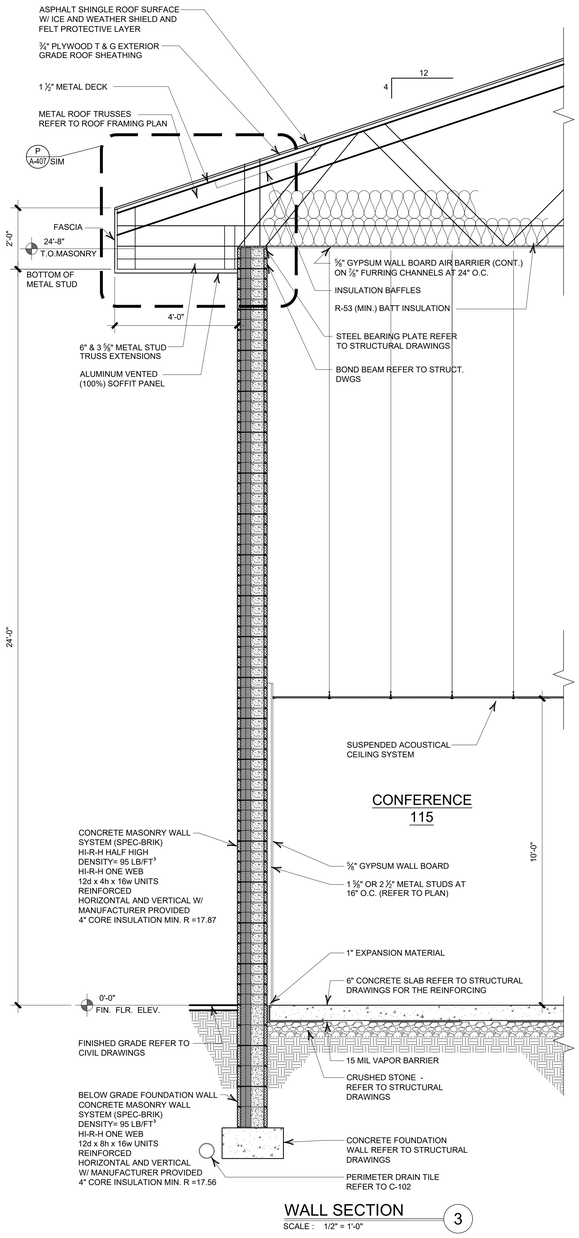
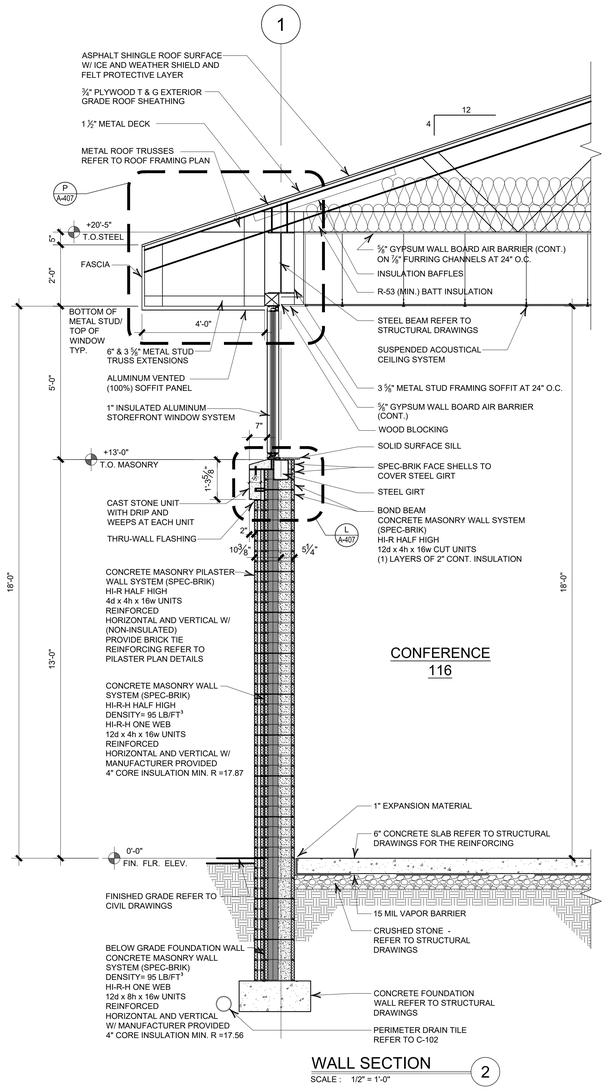
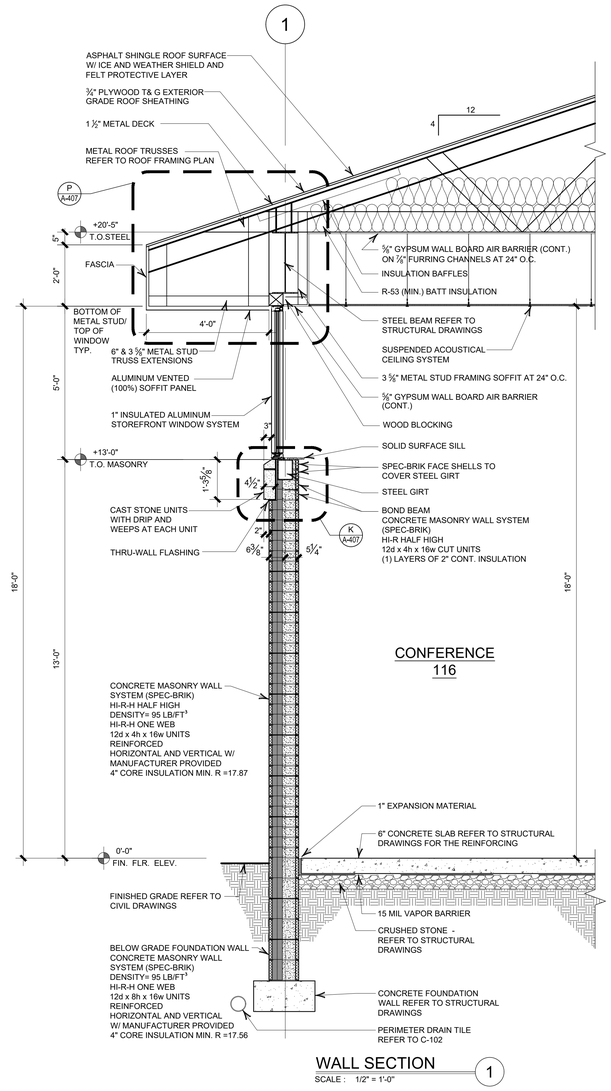


WALL SECTION 3
SCALE : 1/2" = 1'-0"



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



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

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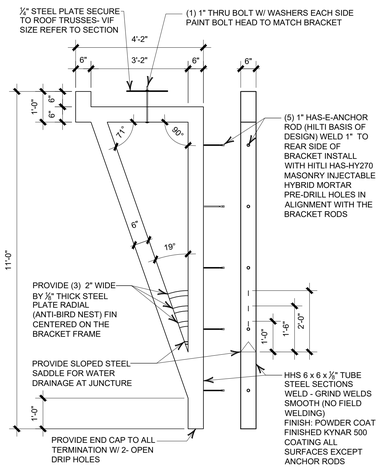
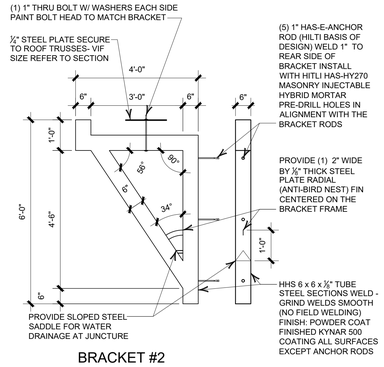


BRACKET #1

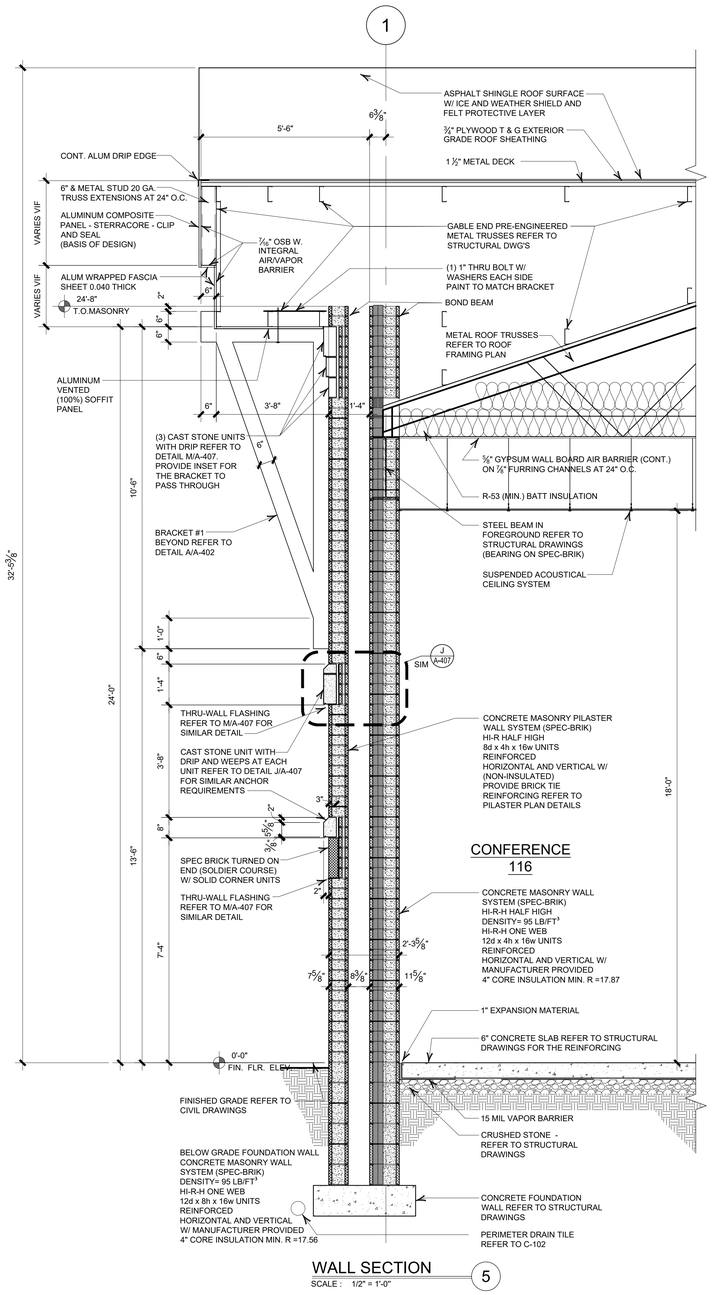


BRACKET #2

BRACKET DETAILS

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

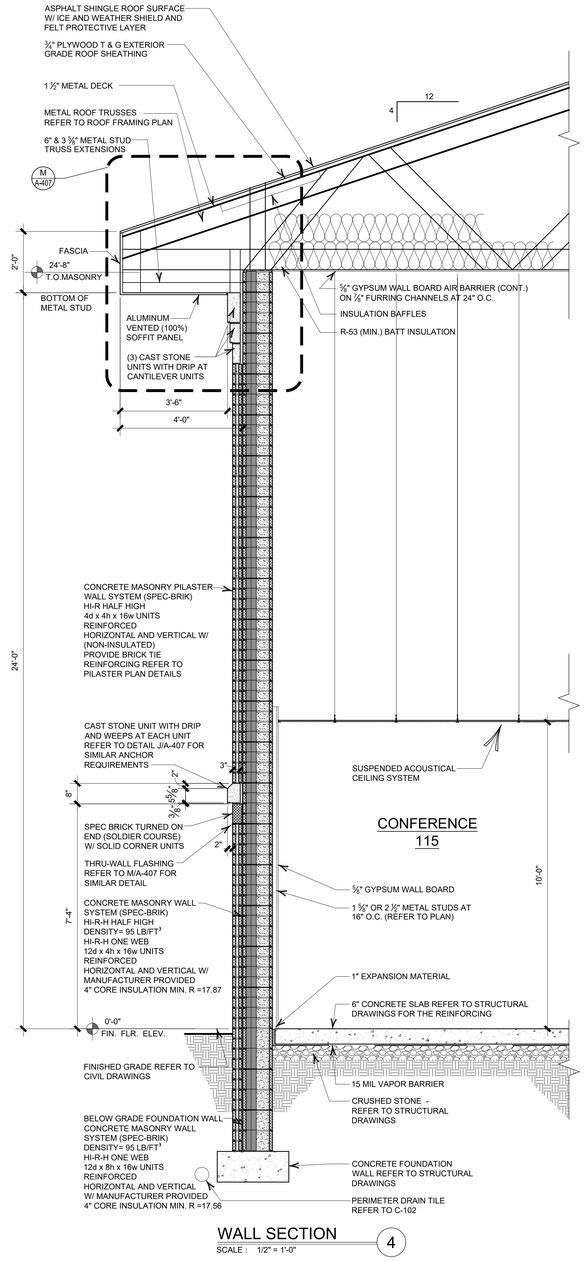
A



WALL SECTION

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

5



WALL SECTION

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

4

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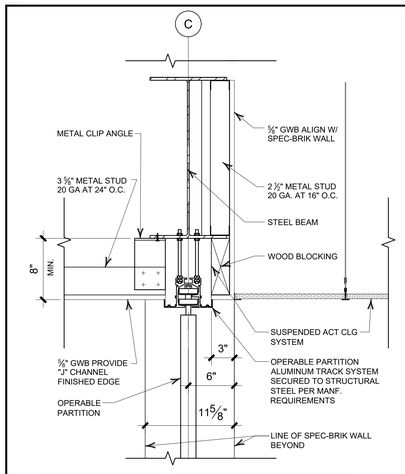
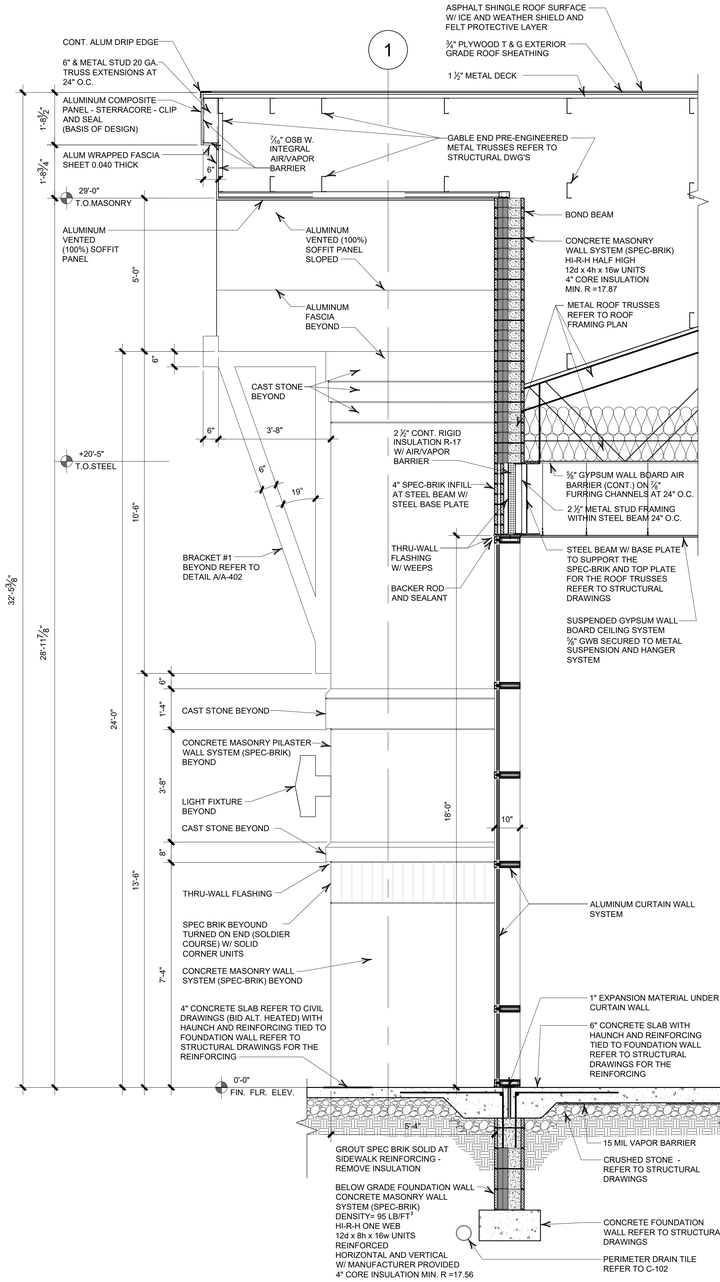
PROJECT No: 23-006	



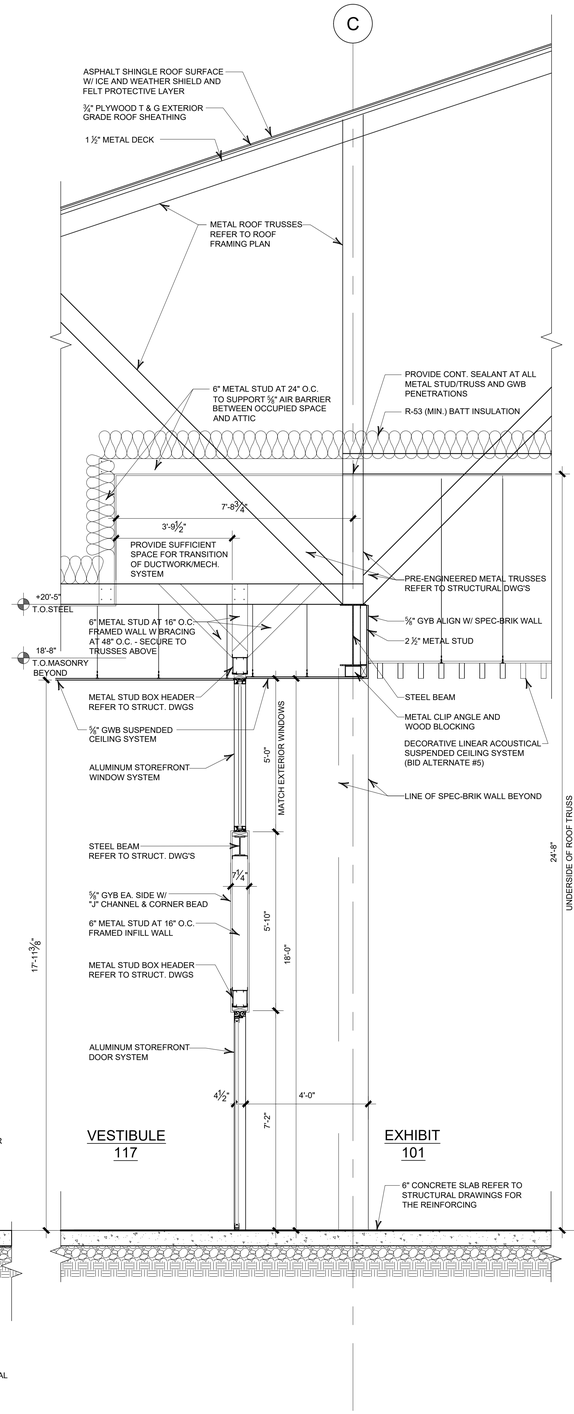
SOFFIT DETAIL - OPERABLE PARTITION A

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



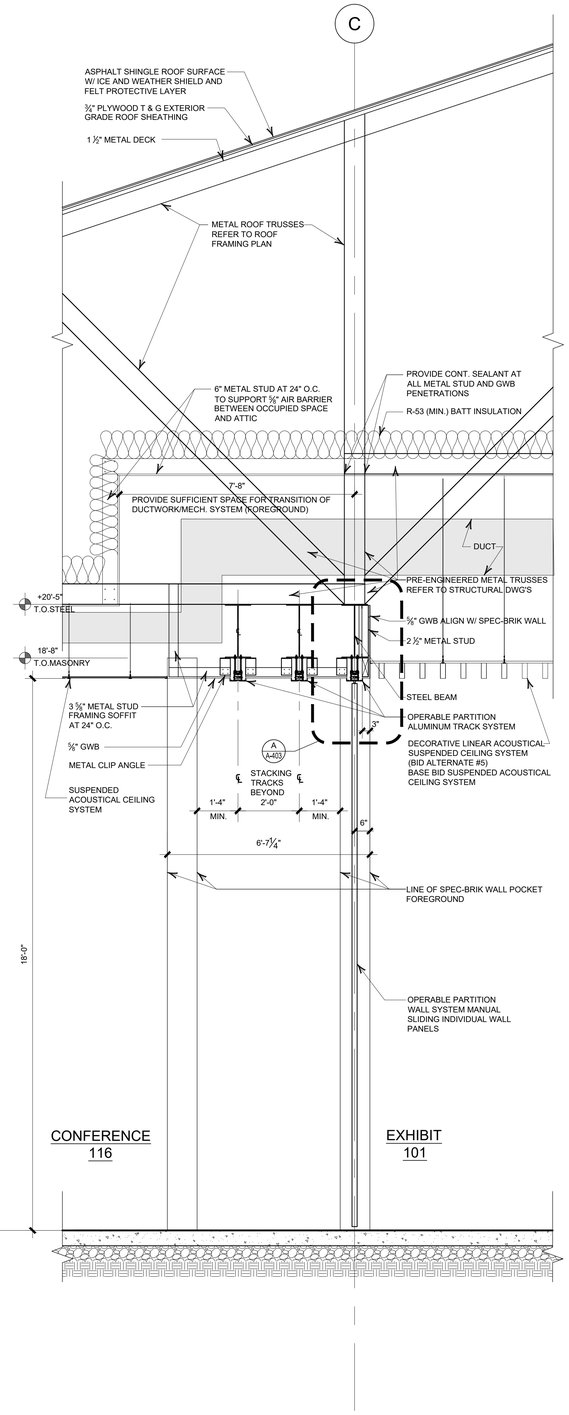
WALL SECTION 6

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



WALL SECTION 7

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



WALL SECTION 8

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

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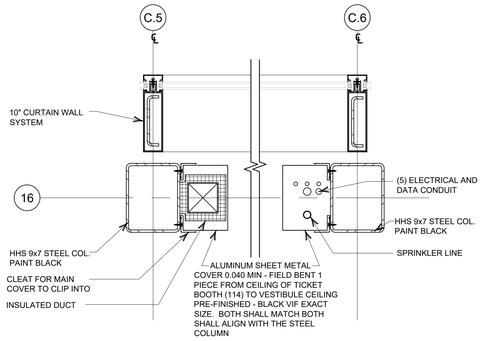
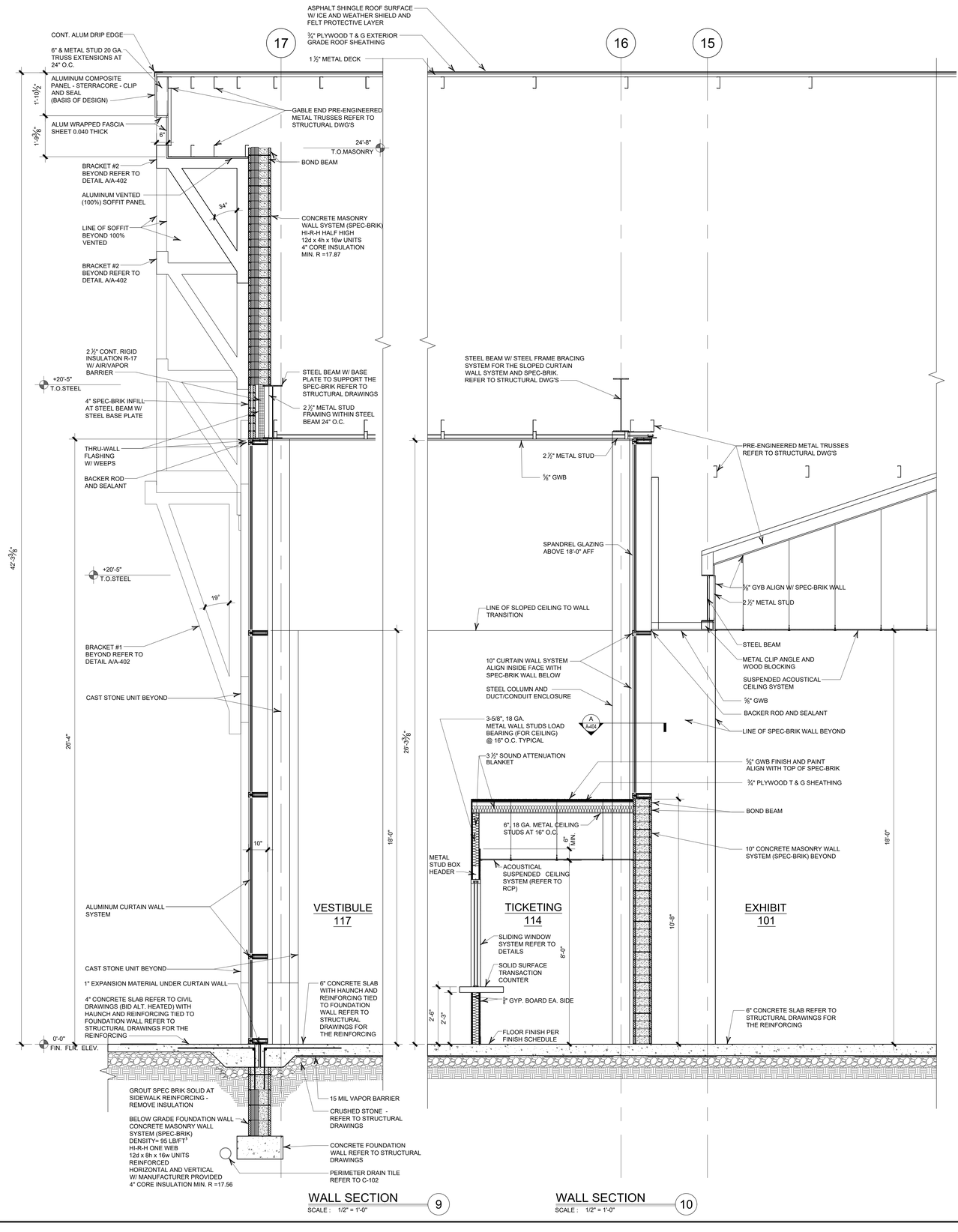
PROJECT No: 23-006	



CURTAIN WALL SYSTEM AND STEEL COLUMN DETAIL ABOVE THE TICKETING (114) PLAN DETAIL — A

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



WALL SECTION — 9

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

WALL SECTION — 10

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

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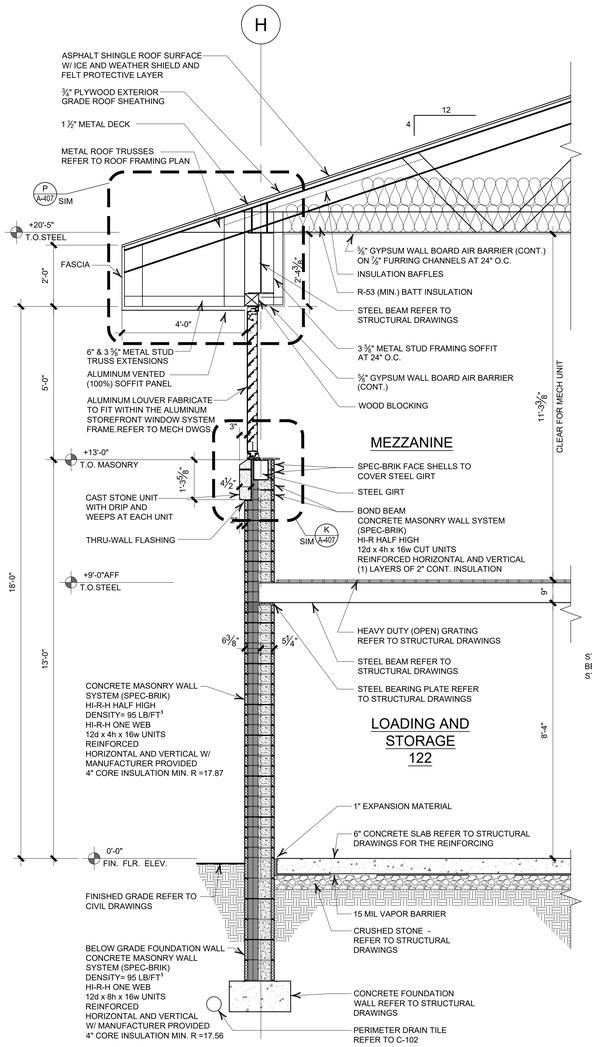
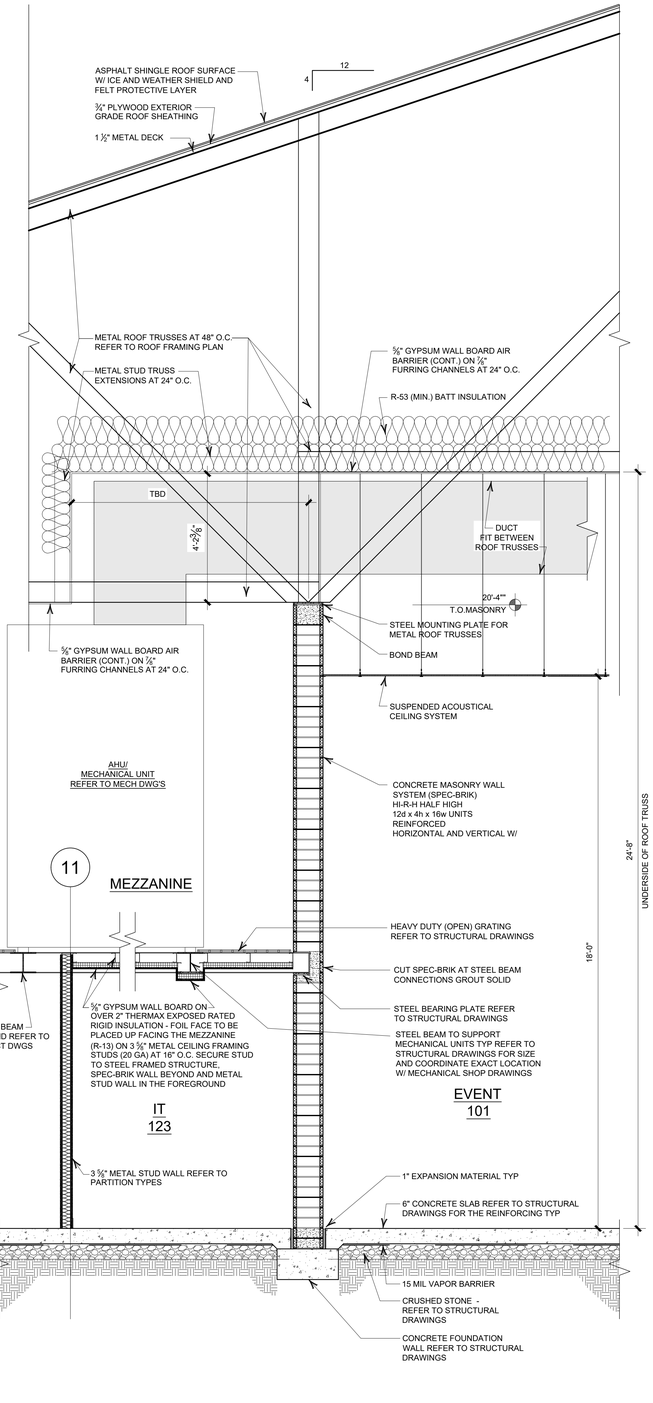
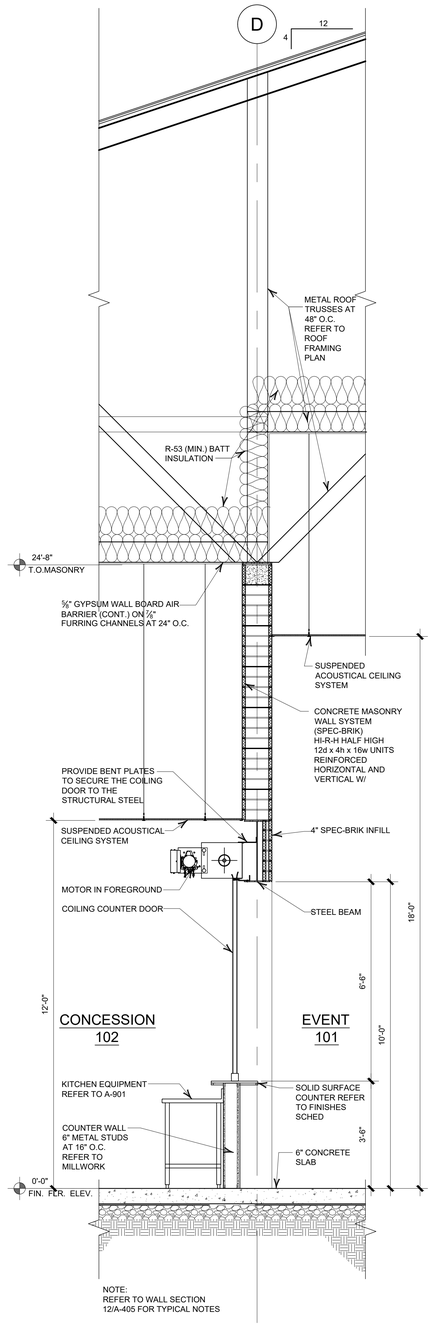


WALL SECTION 11
SCALE : 1/2" = 1'-0"

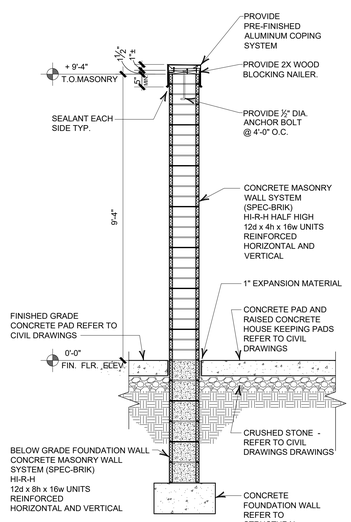


WALL SECTION 12
SCALE : 1/2" = 1'-0"



NOTE:
REFER TO WALL SECTION 12/A-405 FOR TYPICAL NOTES

WALL SECTION 13
SCALE : 1/2" = 1'-0"



WALL SECTION 14
SCALE : 1/2" = 1'-0"

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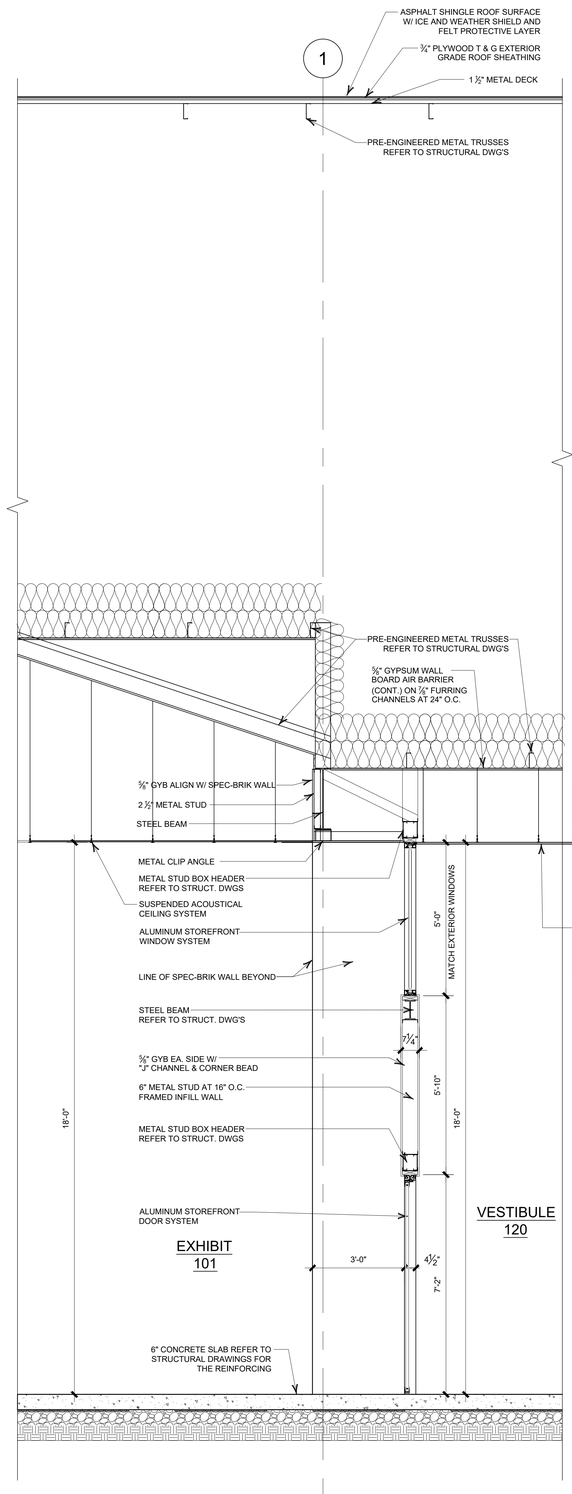
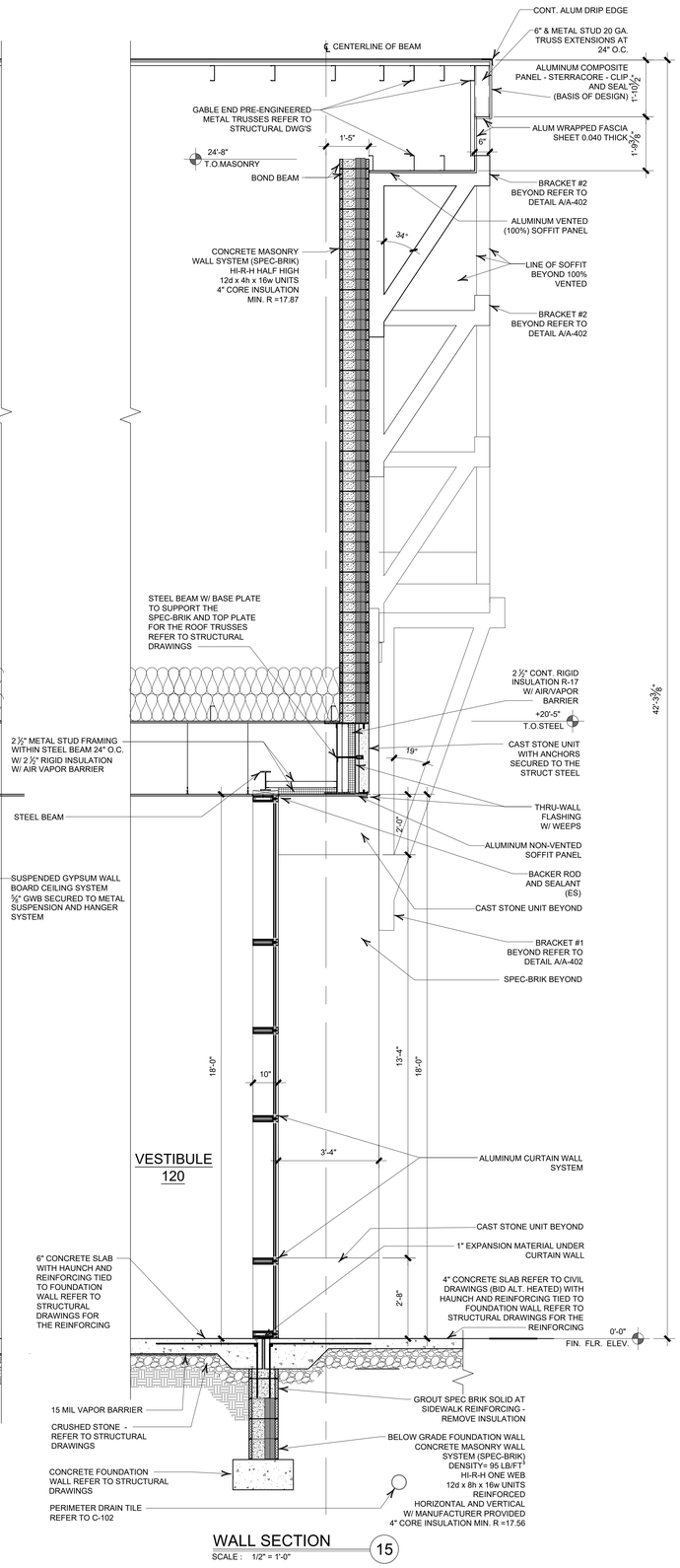


WALL SECTION 16
SCALE : 1/2" = 1'-0"



WALL SECTION 15
SCALE : 1/2" = 1'-0"

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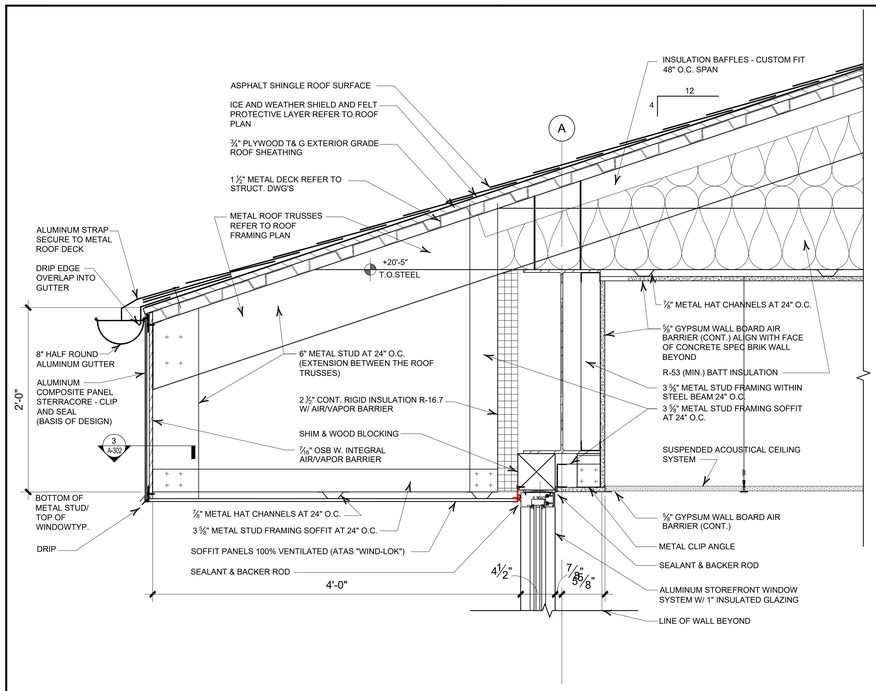
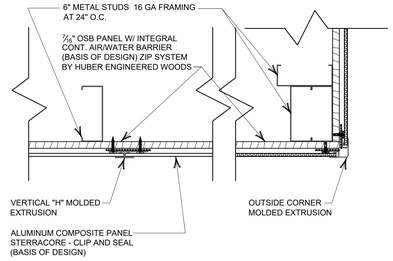


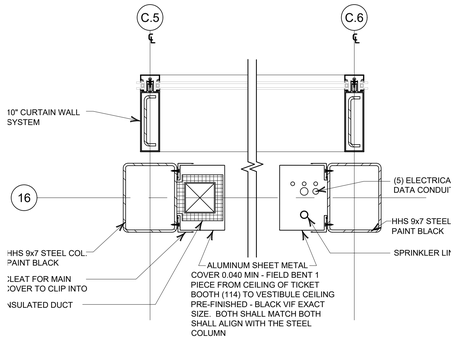
ALUMINUM STOREFRONT WINDOW HEAD AND CANOPY OVERHANG DETAIL

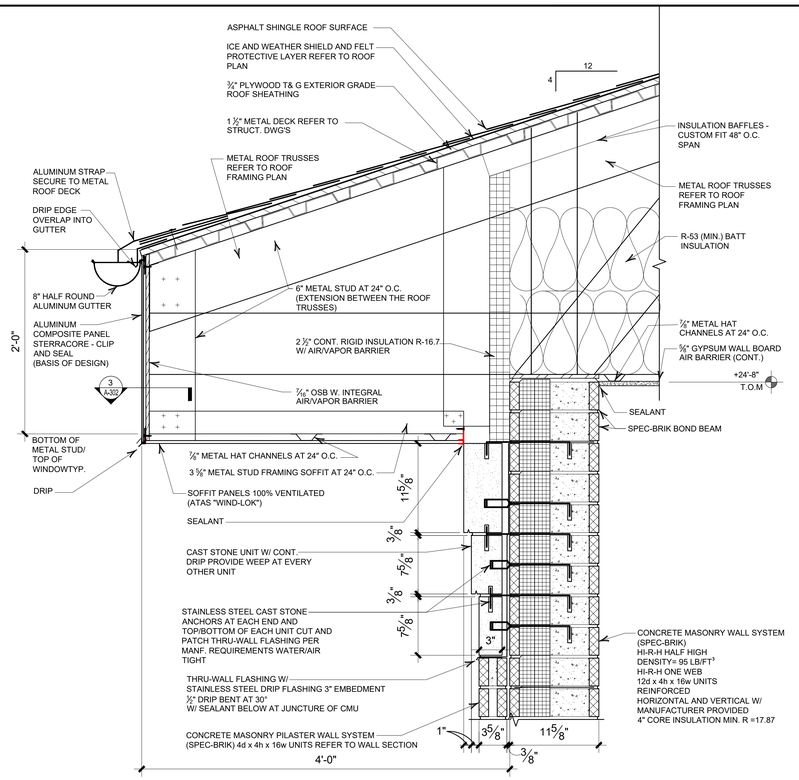
SCALE : 1 1/2" = 1'-0" (P)



CANOPY OVERHANG - PLAN DETAIL

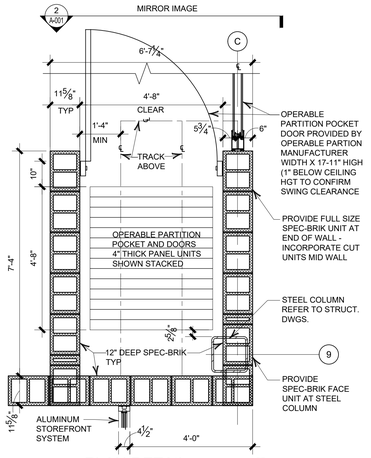
SCALE : 3" = 1'-0" (N)





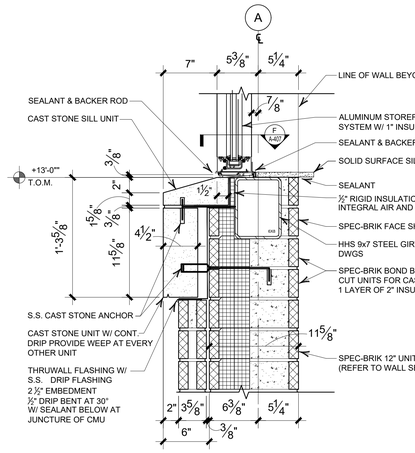
CAST STONE AND CANOPY OVERHANG DETAIL

SCALE : 1 1/2" = 1'-0" (M)



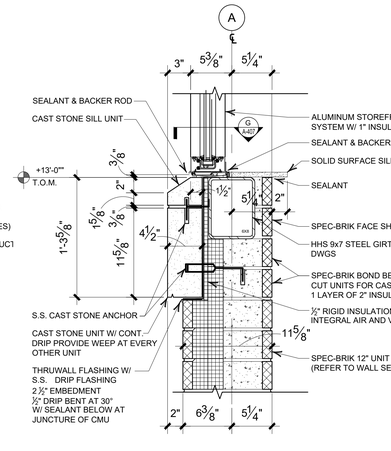
PLAN DETAIL

SCALE : 1/2" = 1'-0" (E)



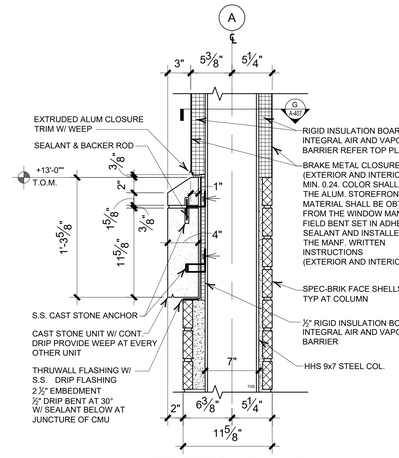
ALUMINUM STOREFRONT WINDOW SECTION AT CORNER PILASTER

SCALE : 1 1/2" = 1'-0" (L)



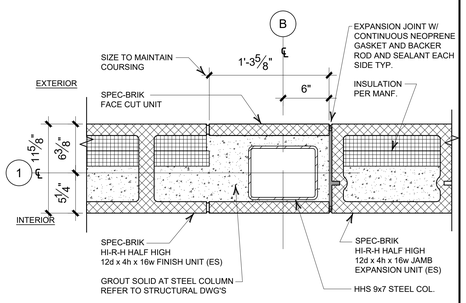
ALUMINUM STOREFRONT WINDOW SECTION AT WINDOW

SCALE : 1 1/2" = 1'-0" (K)



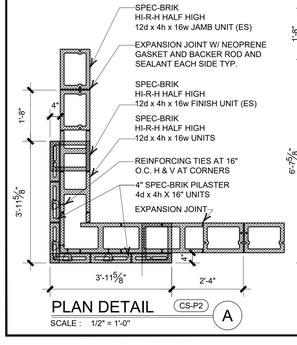
ALUMINUM STOREFRONT WINDOW SECTION AT STEEL COLUMN

SCALE : 1 1/2" = 1'-0" (J)



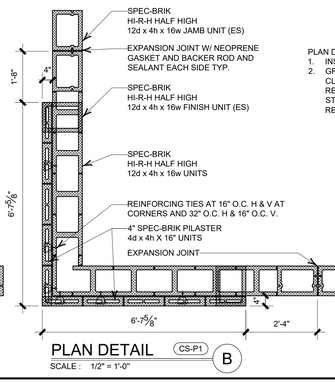
STEEL COLUMN AND SPEC-BRIK EXPANSION JOINT PLAN DETAIL

SCALE : 1 1/2" = 1'-0" (H)



PLAN DETAIL

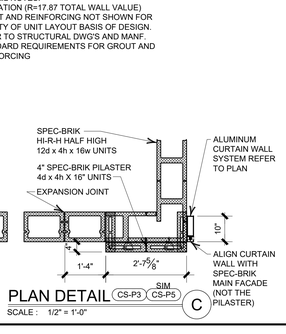
SCALE : 1/2" = 1'-0" (CS-P2) (A)



PLAN DETAIL

SCALE : 1/2" = 1'-0" (CS-P1) (B)

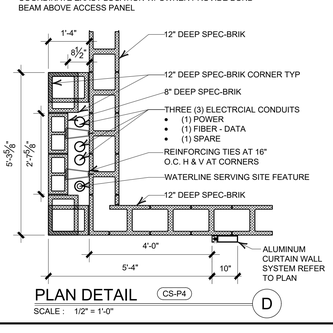
PLAN DETAIL NOTES:
1. INSULATION (R=17.87 TOTAL WALL VALUE)
2. GROUT AND REINFORCING NOT SHOWN FOR CLARITY OF UNIT LAYOUT BASIS OF DESIGN. REFER TO STRUCTURAL DWG'S AND MANF. STANDARD REQUIREMENTS FOR GROUT AND REINFORCING



PLAN DETAIL

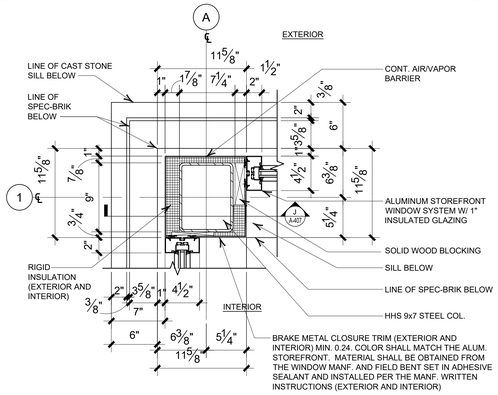
SCALE : 1/2" = 1'-0" (CS-P3) (CS-P5) (C)

NOTE: PROVIDE KEY LOCKED ACCESS PANEL FOR UTILITIES ACCESS. REFER TO FLOOR PLAN AND PANEL SCHEDULE AND COORDINATE EXACT LOCATION W/ OWNER PROVIDE BOND BEAM ABOVE ACCESS PANEL



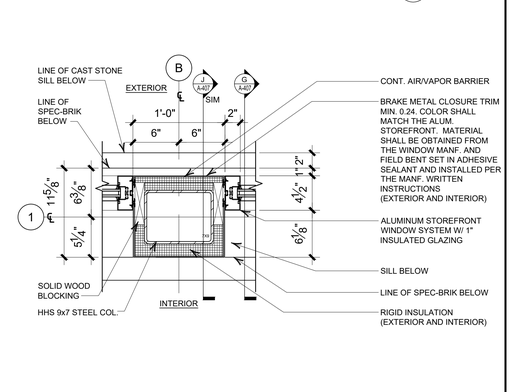
PLAN DETAIL

SCALE : 1/2" = 1'-0" (CS-P4) (D)



ALUMINUM STOREFRONT WINDOW CORNER PLAN DETAIL

SCALE : 1 1/2" = 1'-0" (F)



ALUMINUM STOREFRONT WINDOW PLAN DETAIL

SCALE : 1 1/2" = 1'-0" (G)

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

SLADE PARK BUILDING

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

ZAXIS
architectural, p.c.
architecture , planning , consulting
4245 UNION ROAD, SUITE 210
BUFFALO, NEW YORK 14225
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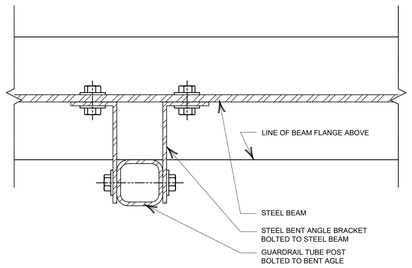
DRAWING TITLE:

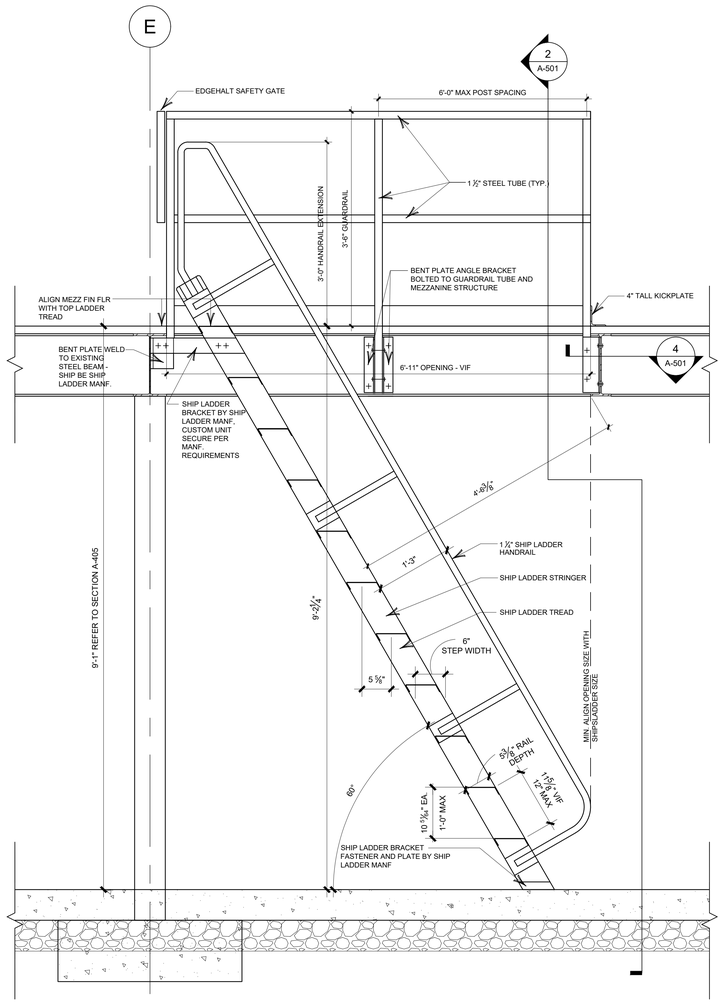
PLAN AND SECTION DETAILS

DATE: 8-18-26	DRAWING No.
SCALE: AS SHOWN	A-407
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	



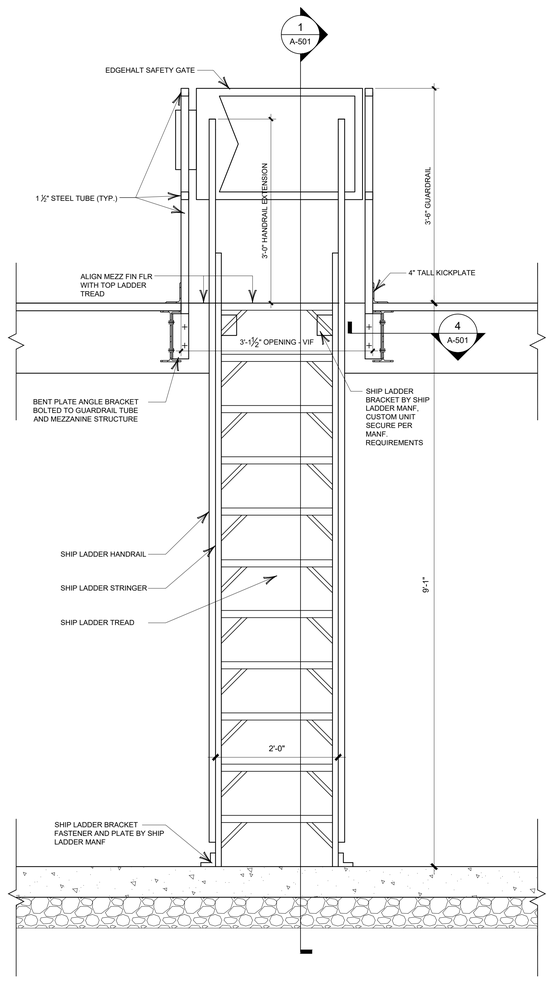
GUARDRAIL ATTACHMENT PLAN DETAIL 4

SCALE : 6" = 1'-0"



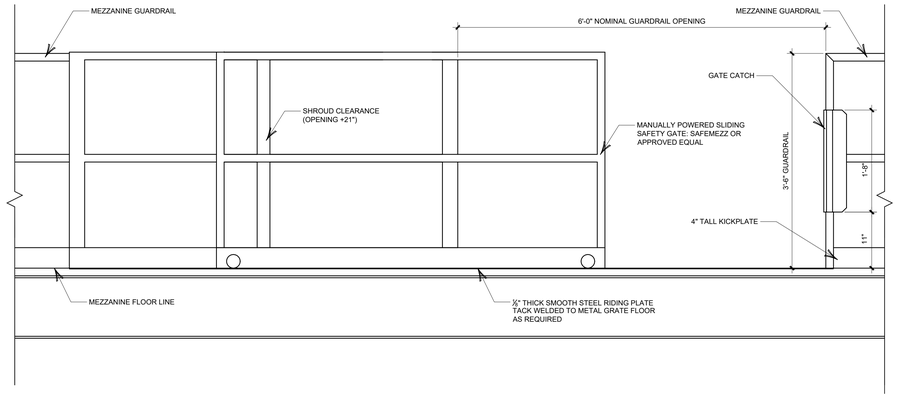
SHIPS LADDER SECTION 1

SCALE : 1" = 1'-0"



SHIPS LADDER ELEVATION 2

SCALE : 1" = 1'-0"



MEZZANINE GATE ELEVATION 3

SCALE : 1" = 1'-0"

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DRAWING TITLE:

SHIPS LADDER SECTIONS AND DETAILS

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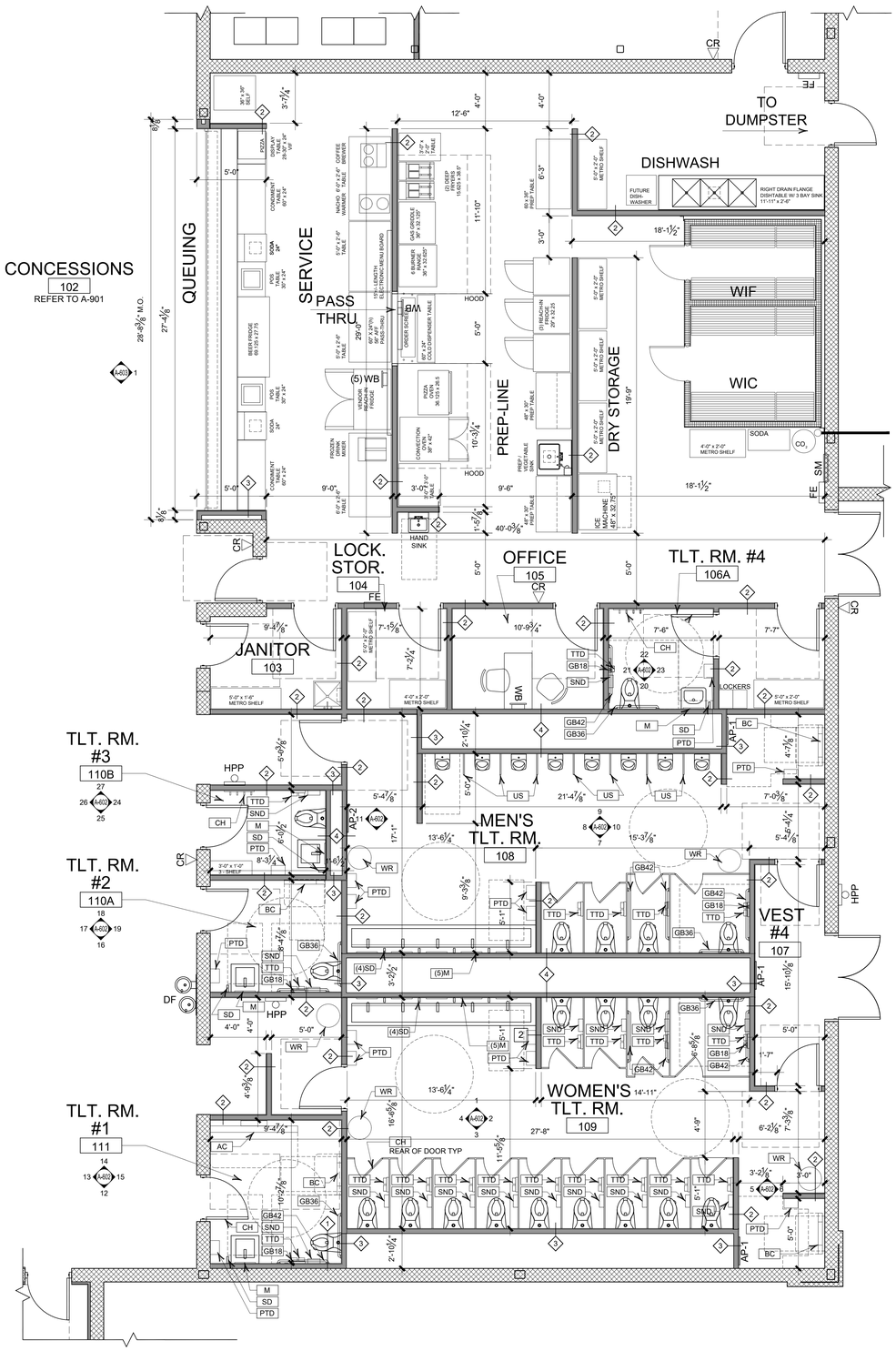
SCALE: AS SHOWN	A-501
DRAWN BY: DHH	
CHECKED BY:	
PROJECT No: 23-006	

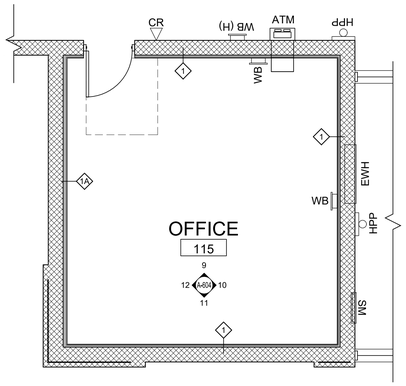


ENLARGED TOILET ROOM PLAN

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

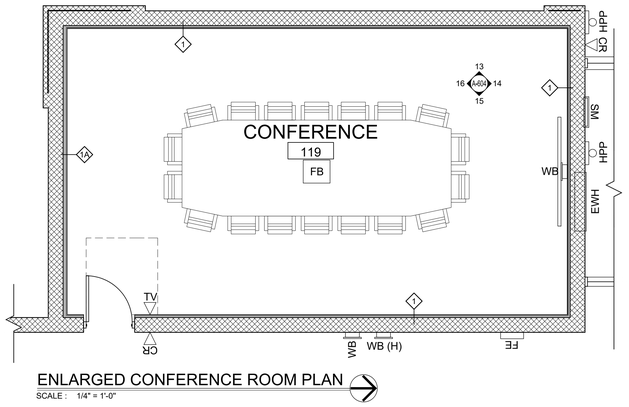
TOILET ROOM ACCESSORY SCHEDULE ⓪ :	
GB18	18" LONG SS GRAB BAR
GB36	36" LONG SS GRAB BAR
GB42	42" LONG SS GRAB BAR
M	MIRROR
SD	SOAP DISPENSER *
SND	SANITARY NAPKIN DISPOSAL
TTD	TOILET TISSUE DISPENSER *
PTD	PAPER TOWEL DISPENSER *
WR	WASTE RECEPTACLE
US	URINAL SCREEN
TP	TOILET PARTITIONS
CH	COAT HOOK
BC	BABY CHANGING STATION
AC	ADULT CHANGING STATION
S	SIGNAGE (GENDERED, FAMILY, ADULT CHANGING, WEIGHT LIMIT, ETC.)
DF	DRINKING FOUNTAIN (W/ BOTTLE FILLER)

NOTE:
* OWNER PROVIDED, CONTRACTOR INSTALLED



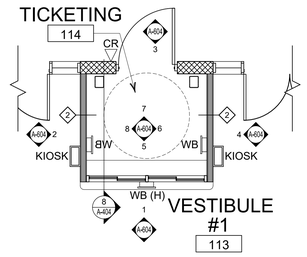
ENLARGED OFFICE ROOM PLAN

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



ENLARGED CONFERENCE ROOM PLAN

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



ENLARGED TICKET BOOTH PLAN

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

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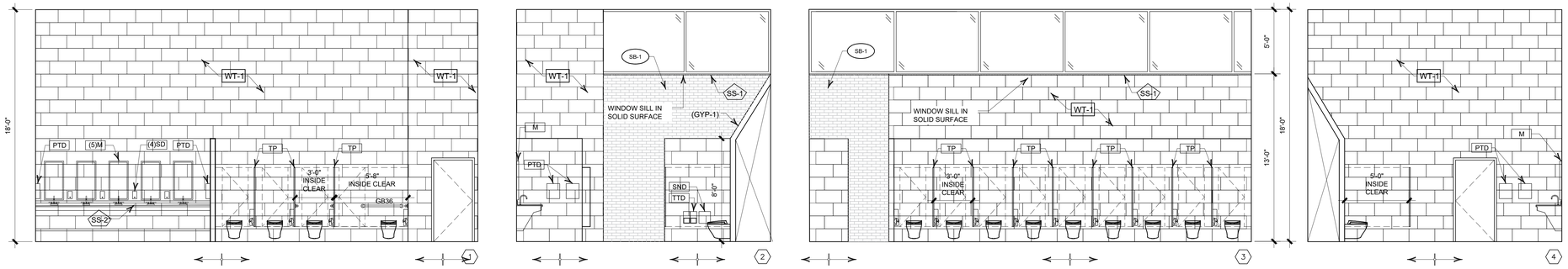
DRAWING TITLE:

ENLARGED FLOOR PLANS

DATE: 4-15-26	DRAWING No.
SCALE: AS SHOWN	A-601
DRAWN BY: SER	
CHECKED BY:	
PROJECT No: 23-006	

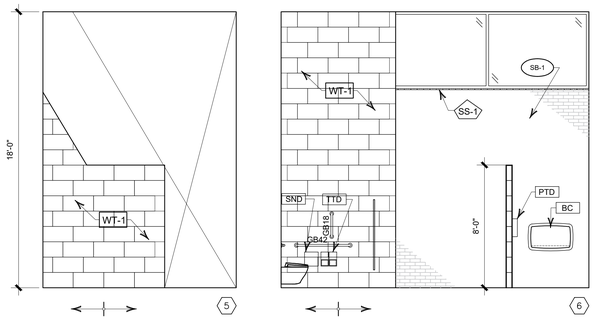


NOTE: REFER TO SHEET A-001 FOR ADA MOUNTING HEIGHTS & CLEARANCES.

WOMEN'S RESTROOM #109

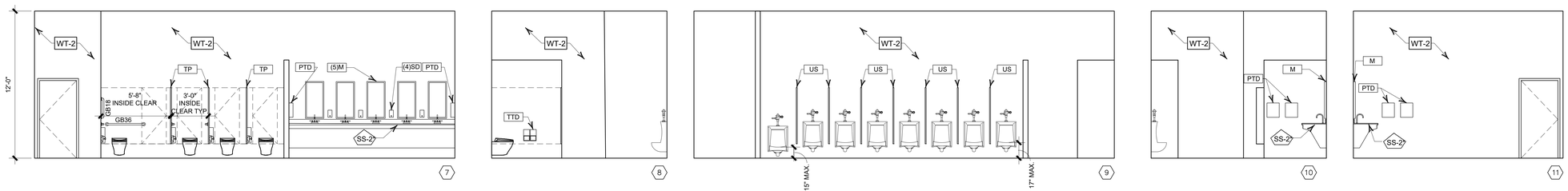
SCALE : 1/4" = 1'-0"

NOTE: CENTER TILE LAYOUT TO WALL, AVOID TILE CUTS LESS THAN 4"



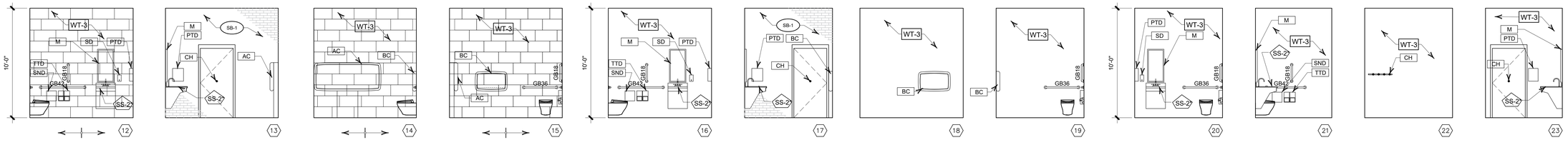
WOMEN'S RESTROOM #109

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



MEN'S RESTROOM #108

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



TOILET ROOM 1 #111

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

NOTE: CENTER TILE LAYOUT TO WALL, AVOID TILE CUTS LESS THAN 4"

TOILET ROOM 2 #110A

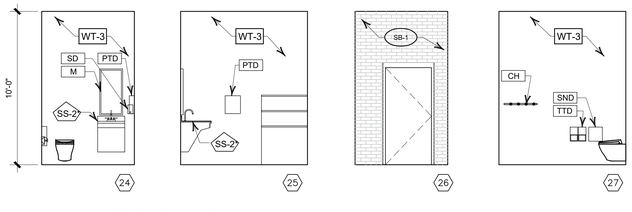
SCALE : 1/4" = 1'-0"

NOTE: REFER TO TOILET ROOM #111 FOR TILE LAYOUT

TOILET ROOM 4 #106A

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

NOTE: REFER TO TOILET ROOM #111 FOR TILE LAYOUT



TOILET ROOM 3 #110B

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

NOTE: REFER TO TOILET ROOM #111 FOR TILE LAYOUT

TOILET ROOM ACCESSORY SCHEDULE 0 :

GB18	18" LONG SS GRAB BAR
GB36	36" LONG SS GRAB BAR
GB42	42" LONG SS GRAB BAR
M	MIRROR
SD	SOAP DISPENSER *
SND	SANITARY NAPKIN DISPOSAL
TTD	TOILET TISSUE DISPENSER *
PTD	PAPER TOWEL DISPENSER *
WR	WASTE RECEPTACLE
US	URINAL SCREEN
TP	TOILET PARTITIONS
CH	COAT HOOK
BC	BABY CHANGING STATION
AC	ADULT CHANGING STATION
S	SIGNAGE (GENDERED, FAMILY, ADULT CHANGING, WEIGHT LIMIT, ETC.)
DF	DRINKING FOUNTAIN (W/ BOTTLE FILLER)

NOTE:
* OWNER PROVIDED, CONTRACTOR INSTALLED

INTERIOR ELEVATIONS - FINISHES HATCH LEGEND:

SPEC BRICK | WALL TILE | WALL PAINT | WALL BASE | SOLID SURFACE

REFER TO ROOM FINISH LEGEND FOR DETAILS ON A801

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CHECKED BY:	A-602
PROJECT No: 23-006	

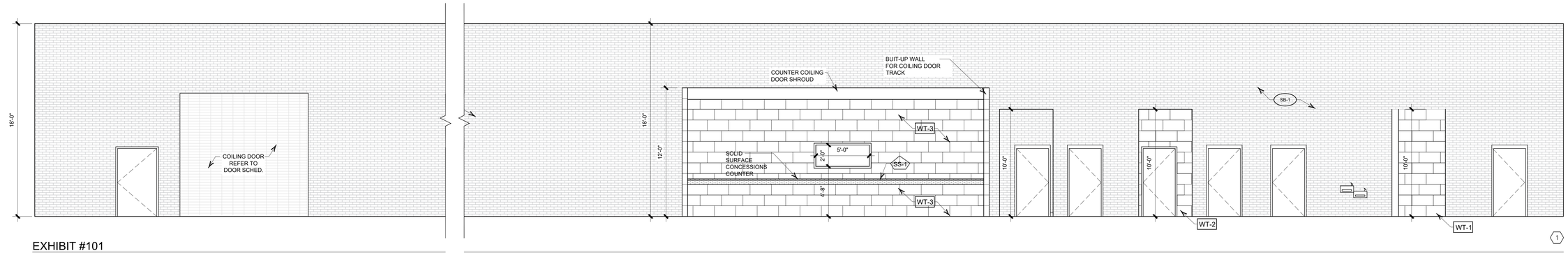
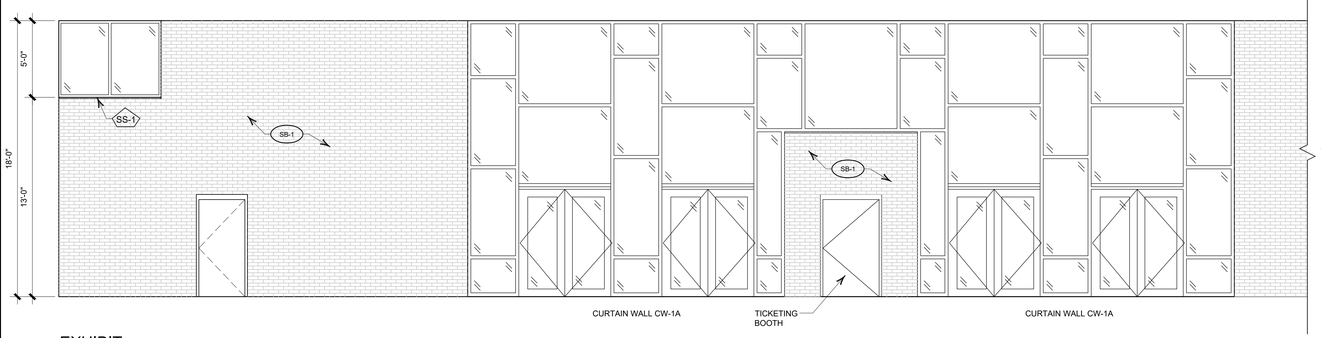


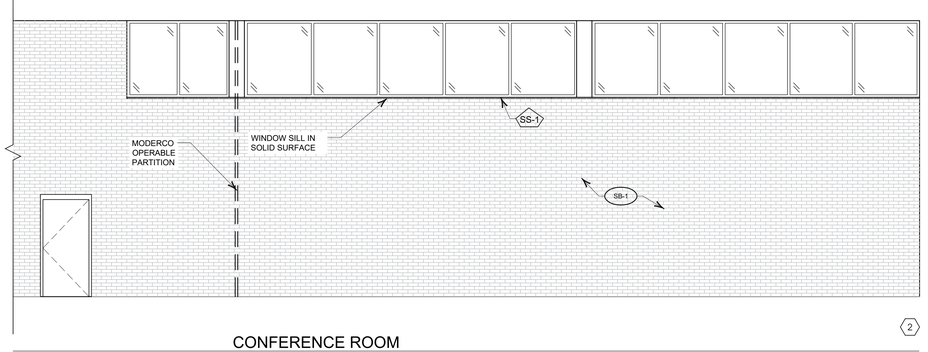
EXHIBIT #101

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



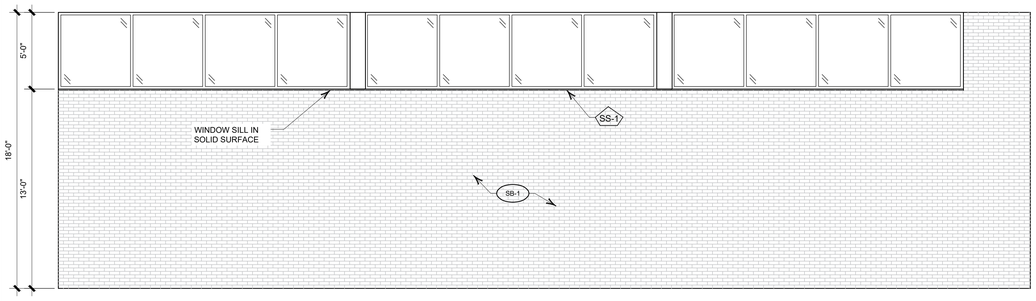
EXHIBIT

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



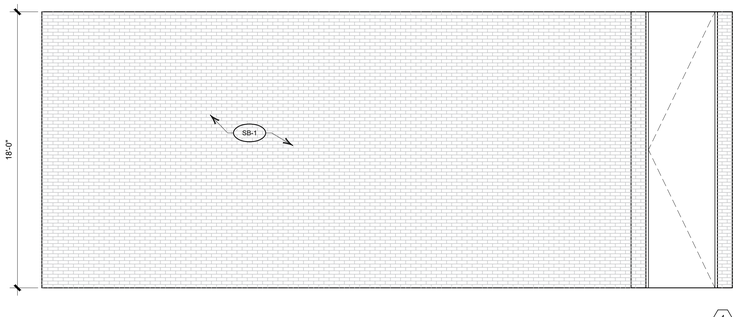
CONFERENCE ROOM

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



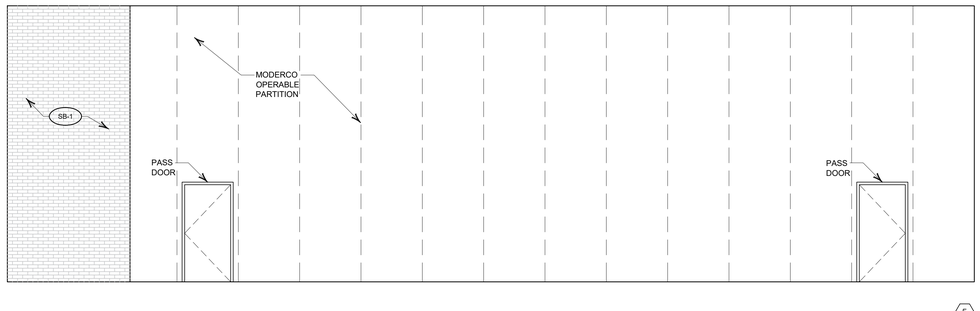
CONFERENCE ROOM

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



CONFERENCE ROOM

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



CONFERENCE ROOM

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

NOTE: REFER TO A001 FOR MORE DETAILS

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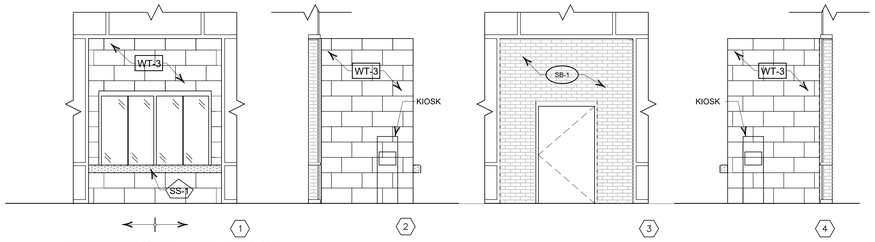
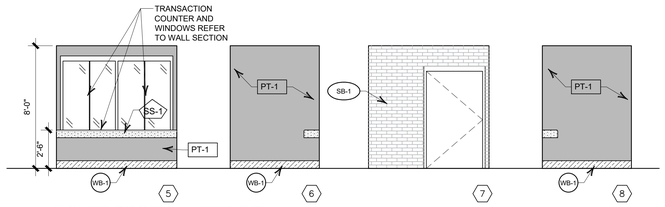
INTERIOR ELEVATIONS

DATE: 4-15-26	DRAWING No.
SCALE: AS SHOWN	A-603
DRAWN BY: SER	
CHECKED BY:	
PROJECT No: 23-006	



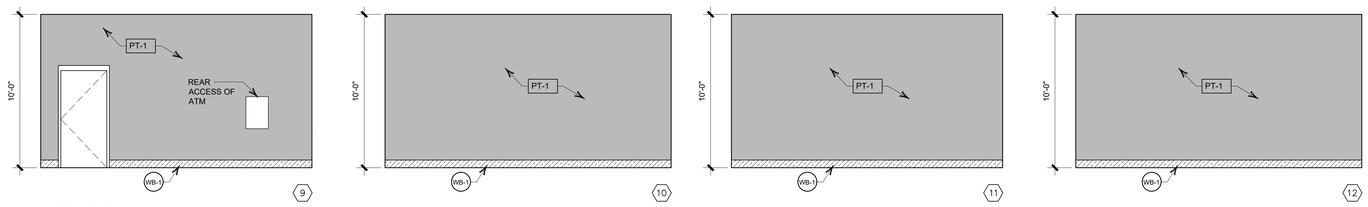
TICKET BOOTH - EXTERIOR

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



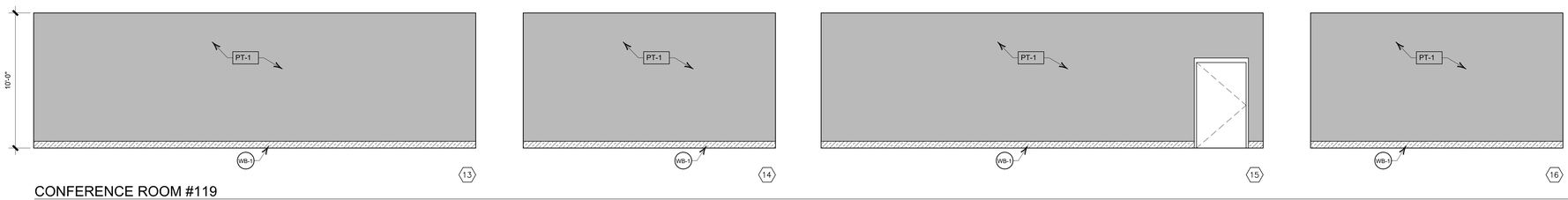
TICKET BOOTH - INTERIOR

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



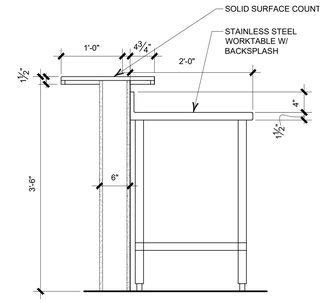
OFFICE ROOM

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



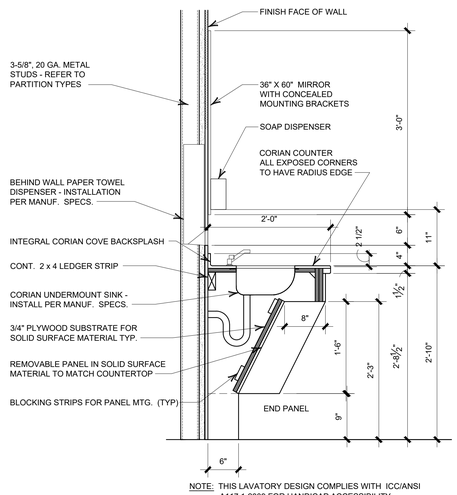
CONFERENCE ROOM #119

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



CONCESSION COUNTER SECTION B

SCALE : 1" = 1'-0"



NOTE: THIS LAVATORY DESIGN COMPLIES WITH ICC/ANSI A117.1-2009 FOR HANDICAP ACCESSIBILITY

VANITY SECTION A

SCALE : 1" = 1'-0"

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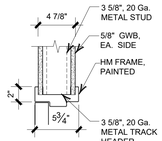
DRAWING TITLE:

INTERIOR ELEVATIONS & MILLWORK SECTIONS

DATE: 4-15-26	DRAWING No.
SCALE: AS SHOWN	A-604
DRAWN BY: SER	
CHECKED BY:	
PROJECT No: 23-006	



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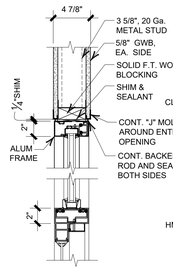

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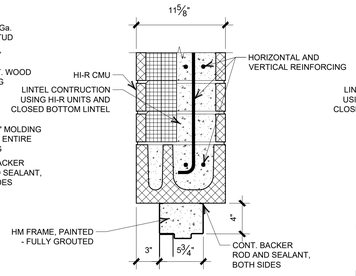

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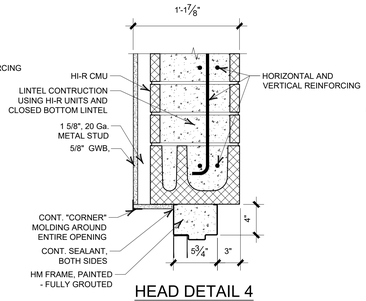

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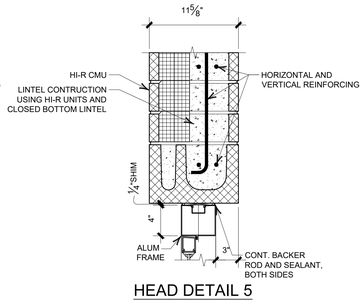

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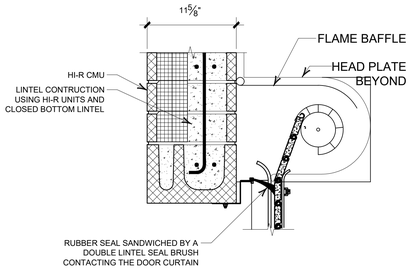

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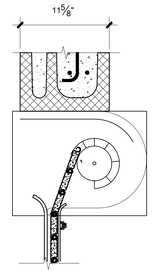

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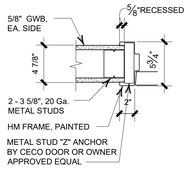

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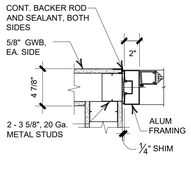

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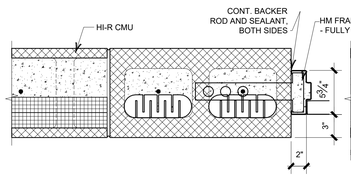

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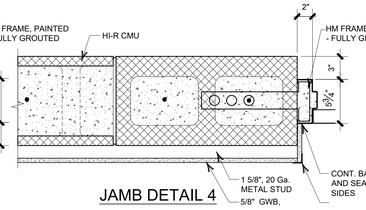

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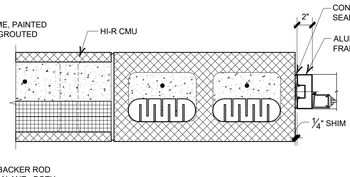

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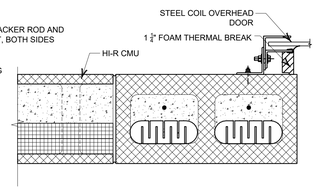

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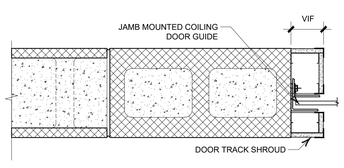


JAMB DETAIL 7

DOOR DETAILS

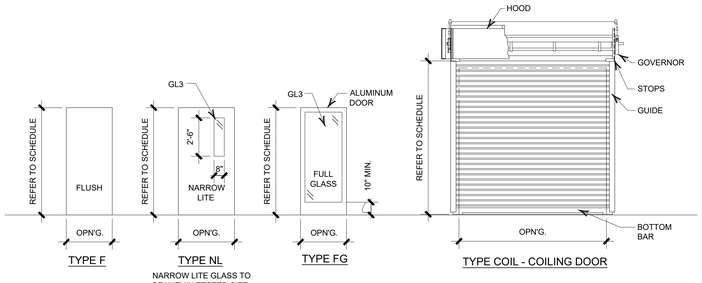
SCALE : 1 1/2" = 1'-0"

A

EXTERIOR WALL NOTE: IF HI-R WALL IS PARTIALLY GROUTED, FLASH AT OPEN CORES ABOVE BOND BEAMS, BOTTOM OF WALLS, AND ABOVE OPENINGS WITH BLOCKFLASH FLASHING WITH INTEGRAL WEEP.

HI-R FOAM INSULATION INSERTS IN EXTERIOR WALLS ONLY.

REFER TO STRUCTURAL DRAWINGS FOR CMU GROUTING AND REBAR DESIGN.

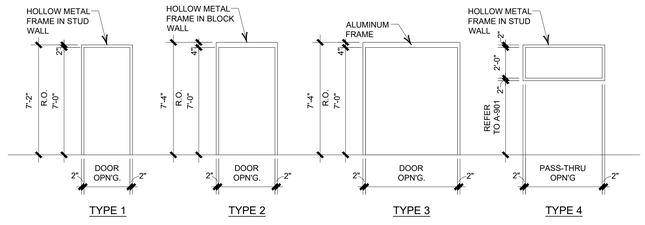


DOOR TYPES

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

B

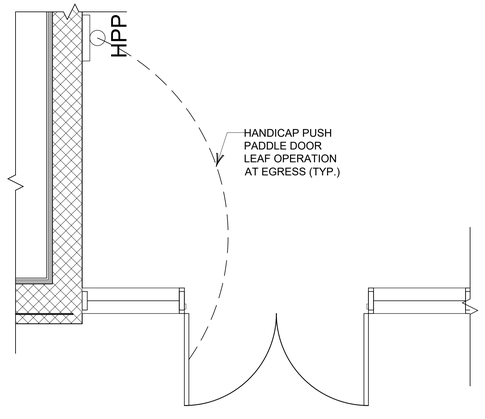
COORDINATE WITH OWNER FOR DESIRED VISION WINDOWS AT ALL DOORS.

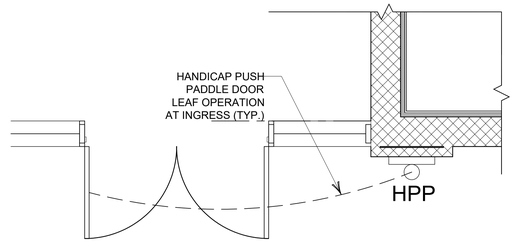


FRAME TYPES

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

C





HANDICAP PUSH PADDLE PLAN

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

ACCESS PANEL SCHEDULE

DOOR NUMBER	LOCATION	SIZE	LABEL	REMARKS	DOOR NUMBER
AP-1	VEST #4 (107), MENS TLT. RM. (108), WOMENS TLT. RM. (109)	2'-0" x 3'-0"	-	BOTTOM OF DOOR 6" AFF	AP-1
AP-2	MENS TLT. RM. (108)	2'-0" x 3'-0"	-	BOTTOM OF DOOR 6" AFF	AP-2
AP-3	EXHIBIT (101) - NEAR PROMOTER OFFICE	4'-0" x 3'-0"	-	VIF W/ MECH EQUIPTMENT FINAL LOCATION	AP-3
AP-4	CONFERENCE (118) - SOUTHEAST CORNER	2'-8" x 3'-0"	-	BOTTOM OF DOOR 6" AFF	AP-4
AP-5	TLT. RM. # 3 (110B)	1'-4" x 1'-4"	-	CEILING	AP-5
AP-6	LOADING/STORAGE (122) - ABOVE MEZZANINE	4'-0" x 3'-0"	-	CEILING	AP-6

GLAZING SCHEDULE

GL1	1" INSULATED CLEAR TEMPERED GLASS
GL2	1" INSULATED CLEAR GLASS
GL3	1/4" CLEAR TEMPERED GLASS
GL4	1/4" CLEAR GLASS
GL5	1/4" CLEAR LAMINATED GLASS
GL6	1" INSULATED SPANDREL GLASS
GL7	1/4" SPANDREL GLASS

DOOR SCHEDULE

DOOR NUMBER	LOCATION	SIZE	* FRAME * TYPE	DEPTH	MATERIAL	* DOOR * TYPE	DEPTH	MATERIAL	JAMB	HEAD	SILL	HDWR SET	ACCESS CONTROL NOTE #3	LABEL	REMARKS	DOOR NUMBER
102-1	CONCESSIONS	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM	3	3	-	6	YES	-	EXTERIOR - FULLY GROUTED FRAME	102-1
102-2	CONCESSIONS	PR - 3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM	3	3		3	YES	-	EXTERIOR - FULLY GROUTED FRAME	102-2
102-3	CONCESSIONS	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM	3	3		9	YES	-		102-3
102-4	CONCESSIONS	12'-0" x 12'-0"				COIL			7	7		18			COUNTER COIL	102-4
102-5	CONCESSIONS	60" w x 24" h	4	5 ¾"	HM										PASS-THRU OPENING NO DOOR OR HARDWARE	102-5
103-1	JANITOR	3'-0" x 7'-0"	2	5 ¾"	HM	F		HM	3	3		12		-		103-1
103-2	JANITOR	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	HM	1	1		15		-		103-2
104-1	LOCK. STOR.	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	HM	1	1		9		-		104-1
105-1	OFFICE	3'-0" x 7'-0"	1	5 ¾"	HM	NL	1 ¾"	HM	1	1		9	YES	-		105-1
106-A1	TLT. RM. #4	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	HM	1	1		13		-		106-A1
106-B1	STAFF	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	HM	1	1		13		-		106-B1
107-1	VEST #4	PR - 3'-0" x 7'-0"	3	4 ½"	ALUM	FG	1 ¾"	ALUM	5	5		5		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	107-1
108-1	MEN'S TLT. RM.	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	WD	1	1		16		-	(fair hold open)	108-1
108-2	MEN'S TLT. RM.	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	WD	1	1		17		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	108-2
109-1	WOMEN'S TLT. RM.	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	WD	1	1		16		-	(fair hold open)	109-1
109-2	WOMEN'S TLT. RM.	3'-0" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	WD	1	1		17		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	109-2
110A-1	TLT. RM. #2	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	3	3		13		-		110A-1
110B-1	TLT. RM. #3	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	3	3		11	YES	-		110B-1
111-1	TLT. RM. #1	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	3	3		14		-		111-1
112-1	OFFICE	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	4	4		9	YES	-		112-1
113-1	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		1		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	113-1
113-2	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		2		-		113-2
113-3	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		2	YES	-		113-3
113-4	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		1		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	113-4
113-5	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		7		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	113-5
113-6	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		8		-		113-6
113-7	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		8		-		113-7
113-8	VESTIBULE #1	PR - 3'-0" x 7'-0"		7 ¼"	ALUM	FG	1 ¾"	ALUM	2	2		8		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	113-8
114-1	TICKETING	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	1	1		10		-		114-1
115-1	OFFICE	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	4	4		9	YES	-		115-1
117-1	VESTIBULE #2	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		1		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	117-1
117-2	VESTIBULE #2	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		1	YES	-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	117-2
117-3	VESTIBULE #2	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		7		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	117-3
117-4	VESTIBULE #2	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		7		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	117-4
118-4	CONFERENCE	OVHD 12'-0" x 11'-0"				COIL		INSUL.	6	6		18			EXTERIOR	118-4
119-1	CONFERENCE	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	4	4		9	YES	-		119-1
120-1	VESTIBULE #3	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		1	YES	-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	120-1
120-2	VESTIBULE #3	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		1		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	120-2
120-3	VESTIBULE #3	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		7		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	120-3
120-4	VESTIBULE #3	PR - 3'-0" x 7'-0"		4 ½"	ALUM	FG	1 ¾"	ALUM	2	2		7		-	HANDICAP PUSH PADDLE - (1) LEAF ONLY	120-4
121-1	CONFERENCE	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	WD	4	4		9	YES	-		121-1
122-1	LOADING/STORAGE	3'-8" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM	3	3		9	YES	-		122-1
122-2	LOADING/STORAGE	3'-8" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	INSUL.	3	3		4	YES	-	EXTERIOR - FULLY GROUTED FRAME	122-2
122-3	LOADING/STORAGE	3'-8" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM	3	3		9	YES	-		122-3
122-4	LOADING/STORAGE	OVHD 12'-0" x 11'-0"				COIL			6	6		18		-	INTERIOR	122-4
122-5	LOADING/STORAGE	OVHD 12'-0" x 11'-0"				COIL		INSUL.	6	6		18		-	EXTERIOR	122-5
123-1	IT	3'-8" x 7'-0"	1	5 ¾"	HM	F	1 ¾"	HM	1	1		9	YES	-		123-1
124-1	DUMPSTER ENCLOSURE	3'-8" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM				19				124-1
124-2	DUMPSTER ENCLOSURE	3'-0" x 7'-0"	2	5 ¾"	HM	F	1 ¾"	HM				19				124-2
116-1	OPERABLE PARTITION														REFER TO NOTE #4	
116-2	DOORS AND POCKET															
116-3	CLOSING DOORS															
118-1	OPERABLE PARTITION															
118-2	DOORS AND POCKET															
118-3	CLOSING DOORS															

GENERAL NOTES:

1. PROVIDE DOOR MUTES FOR ALL INTERIOR DOORS.
2. PROVIDE SOLID BLOCKING AT ALL WALL STOPS.
3. PROVIDE ACCESS CONTROL SYSTEM: COORDINATE WITH THE FLOOR PLAN FOR EXACT LOCATIONS SYMBOL (CR) CARD READER
4. OPERABLE PARTITION WITH DOORS: REFER TO OPERABLE PARTITION SPECIFICATION - ALL DOORS AND HARDWARE SHALL BE PROVIDED BY OPERABLE PARTITION MANUFACTURER

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

ZAXIS architectural, p.c.
architecture . planning . consulting
4245 UNION ROAD, SUITE 210
BUFFALO, NEW YORK 14225
P: 716.923.0133
F: 716.923.0136

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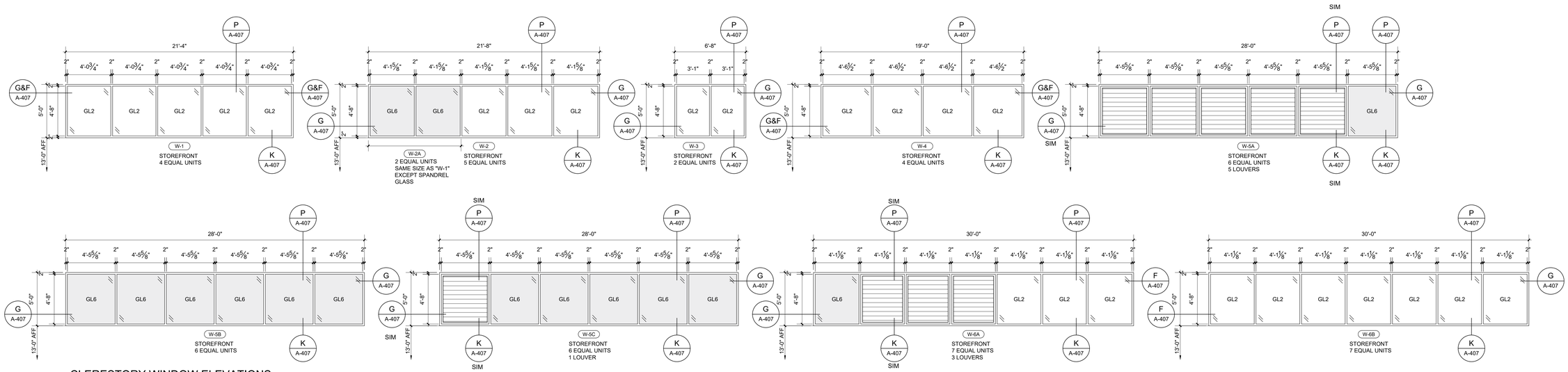
DRAWING TITLE:

DOOR SCHEDULE AND DETAILS

DATE:	4-24-26
SCALE:	AS SHOWN
DRAWN BY:	AS
CHECKED BY:	DH
PROJECT No:	23-006

DRAWING No.

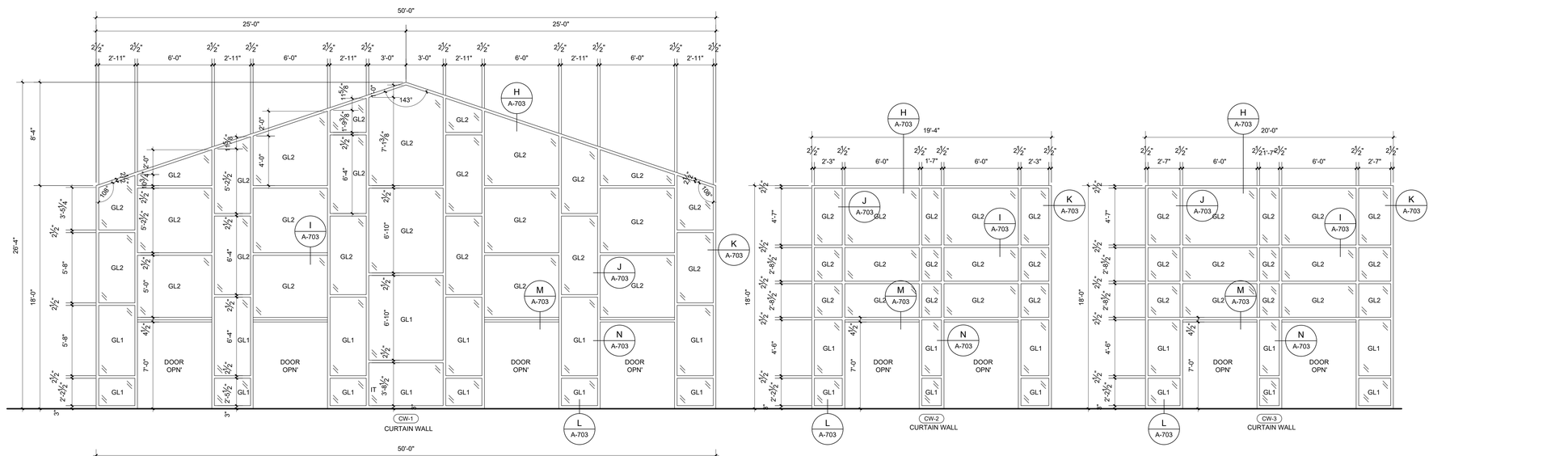
A-701



CLERESTORY WINDOW ELEVATIONS

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

NOTE:
- MULL LOUVERS INTO STOREFRONT FRAME FOR MECHANICAL DUCTING.



WINDOW ELEVATIONS

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

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

ZAXIS
architectural, p.c.
architecture , planning , consulting
4245 UNION ROAD, SUITE 210
BUFFALO, NEW YORK 14225
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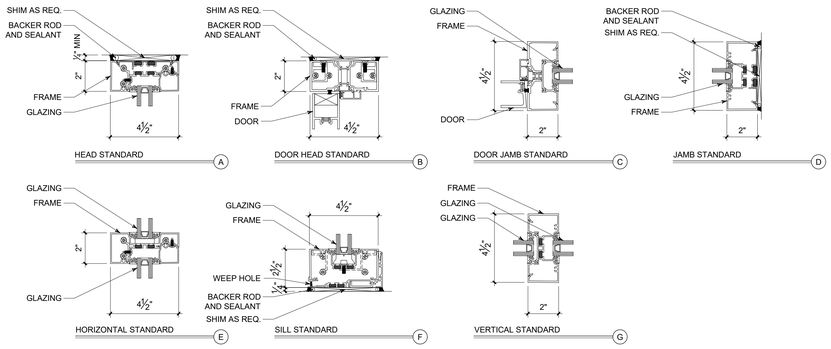
DRAWING TITLE:

WINDOW ELEVATION SCHEDULE

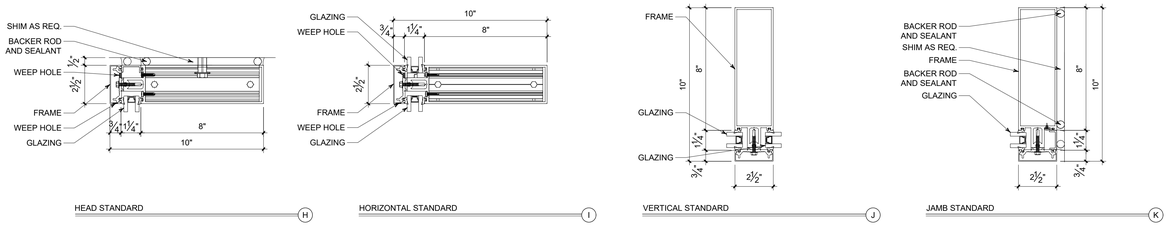
DATE: 4-24-26	DRAWING No.
SCALE: AS SHOWN	A-702
DRAWN BY: AS	
CHECKED BY: DH	
PROJECT No: 23-006	

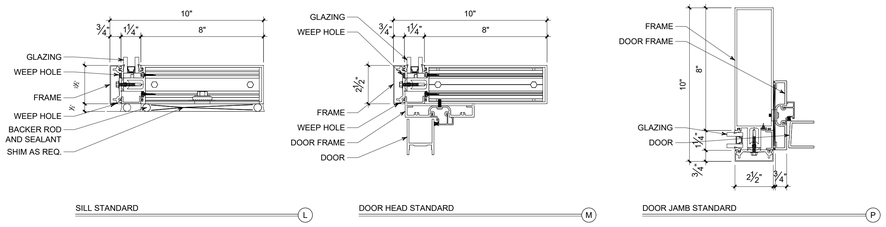


STOREFRONT WINDOW DETAILS

SCALE : 3" = 1'-0"

NOTE:
- REFER TO MFR. DETAILS FOR ADDITIONAL INFORMATION.





CURTAIN WALL WINDOW DETAILS

SCALE : 3" = 1'-0"

NOTE:
- REFER TO MFR. DETAILS FOR ADDITIONAL INFORMATION.

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Erie County Agricultural Society

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AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

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DRAWING TITLE:

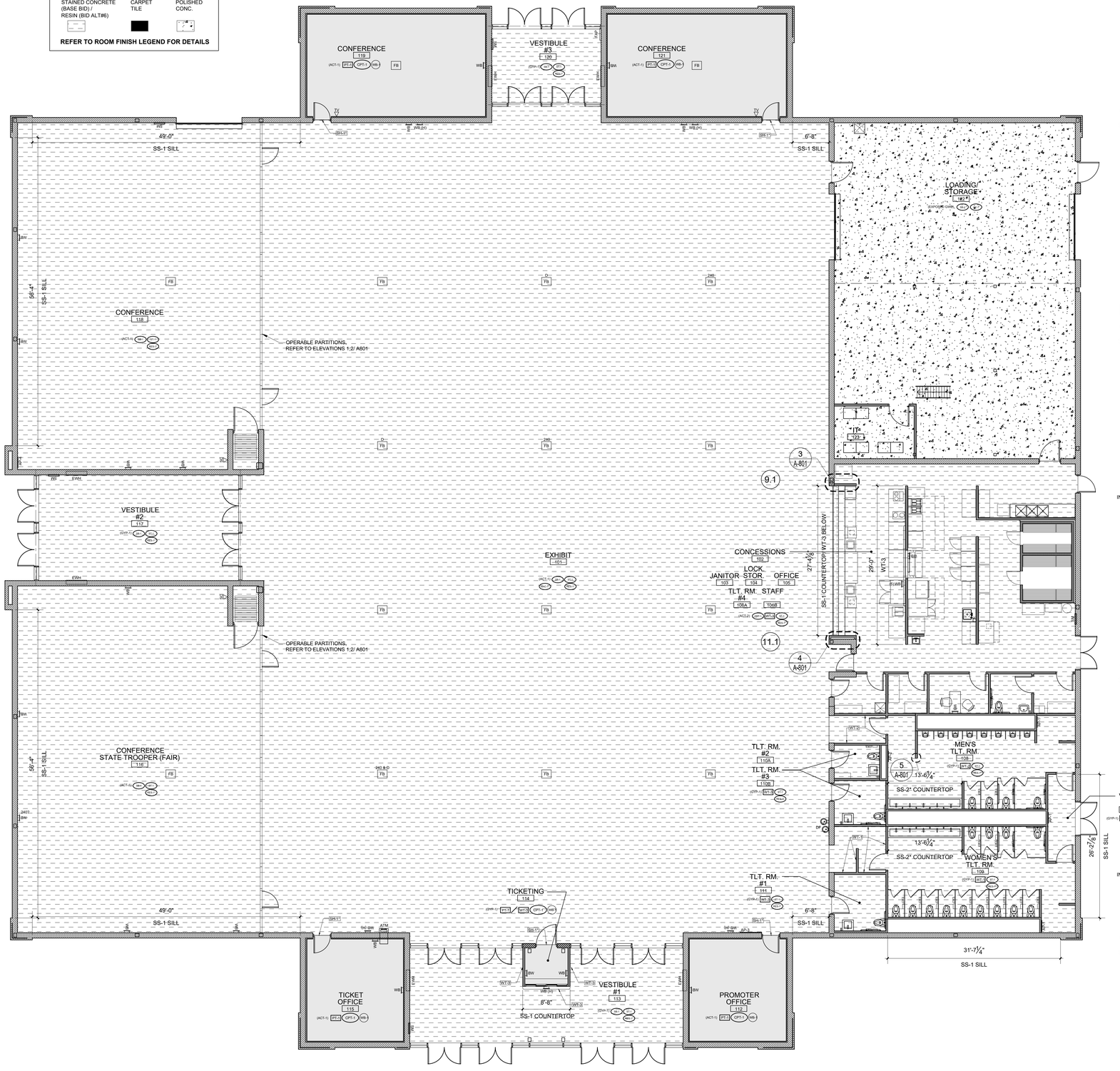
STORE FRONT AND CURTAIN WALL DETAILS

DATE: 4-24-26	DRAWING No.
SCALE: AS SHOWN	A-703
DRAWN BY: AS	
CHECKED BY: DH	
PROJECT No: 23-006	

FLOOR FINISHES HATCH LEGEND:

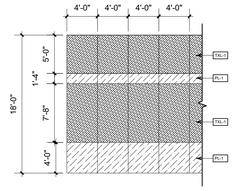
STAINED CONCRETE (BASE BID) / RESIN (BID ALT#6) | CARPET TILE | POLISHED CONC.

REFER TO ROOM FINISH LEGEND FOR DETAILS



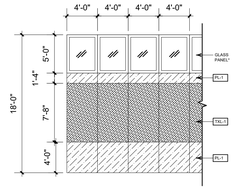
FINISH FLOOR PLAN

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



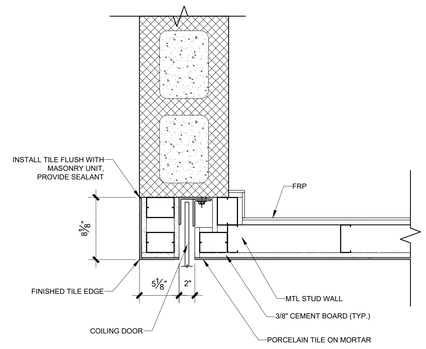
OPERABLE PARTITION - ELEVATION 1

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



BID ALTERNATE #3 OPERABLE PARTITION - ELEVATION 2

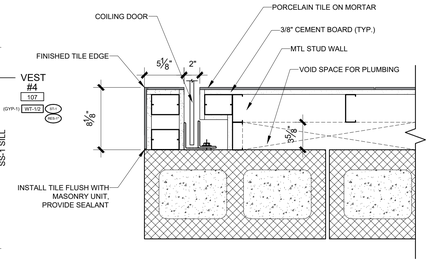
SCALE : 1/8" = 1'-0"



COILING DOOR @WALL DTL 4

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

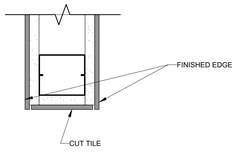
3



COILING DOOR @WALL DTL 3

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

4



TILED WALL CORNER DTL 5

SCALE : 3" = 1'-0"

5

FINISHES LEGEND:

FLOORING:

Stained Concrete (ST-1) (BASE BID) — ST-1
Make: SCOFIELD
Model: LITHICHROME Chemstain Classic
Color : CS-14 Dark Walnut

IN LIEU OF STAINED CONCRETE ST-1 PROVIDE: — RES-1*
High Performance Resinous Flooring (RES-1*) -
(BID ALTERNATE # 6)
Make: Sherwin Williams
Model: HYBRY-FLEX EC
Color: 1/8" Almond Milk
Topcoat: Reaulite AT Gloss

Sealed Concrete (SC-1) — SC-1
Make: Prosoco
Product: (LS) CONSOLIDECK SILICATE TREATEMENT

Carpet Tile (CPT-1) — CPT-1
Make: Interface
Model: Dual Effect
Color - TBD
Note: Provide vinyl edge between carpet and stained concrete transition

WALL:

CONCRETE MASONRY SYSTEMS:

Product: Spec-Brick HI-R-H (SB-1) — SB-1
Size: 12"Dx4"Hx16"L
Color - TBD

Spec-Brick HI-R-H (SB-2) — SB-2
Size: 12"Dx4"Hx16"L
Color - TBD

PAINT:

Paint - gypsum board walls (PT-1) — PT-1
Make: Sherwin Williams
Color - TBD

WALL TILE:

Porcelain Tile (WT-1) — WT-1
Make: Daltile
Model: Articulo
Size: 24x12"
Color - TBD
Finish: Polished

Porcelain Tile (WT-2) — WT-2
Make: Daltile
Model: Articulo
Size: 24x12"
Color - TBD
Finish: Polished

Porcelain Tile (WT-3) — WT-3
Make: Daltile
Model: Articulo
Size: 24x12"
Color - TBD
Finish: Polished

Note: Pattern for all wall tile applications - 1/3 Running Bond, Orientation - Horizontal

Grout for Porcelain Wall Tile — (MISC-1)
Make: MAPEI
Color: 47 CHARCOAL - 1/8" JOINTS

Fiber-Reinforced Polymer (FRP-1) — FRP-1
Make: EM PLASTIC & ELECTRIC PRODUCTS
Product: Panolam FRP, Pebbled (0.090")
Class: 'A' Fire Rating
Color: White for panels and white for trims
Size: (4'-0") wide x Full height wall application
Note: GC to provide trim accessories: joiner strip, inside corner, outside corner, cap strip, water based adhesive.

WALL BASE:

6" Rubber Wall Base (WB-1) — WB-1
Make: Johnsonite
Model: Toeless
Color - TBD

CEILINGS:

ACOUSTICAL CEILINGS : — (ACT-1)
Acoustical Tile: ACT-1 (BASE BID)
Manufacturer: USG
Product: MARS HIGH-NRC LOGIX ACOUSTICAL FIELD PANELS
Item No.: 88137
Edge: SQ
Class: A
Color / Texture: White
Size: 24 x 24 x 1"

(ACT-2)
Acoustical Tile: ACT-2
Manufacturer: USG
Product: KITCHEN LAY-IN PANEL
Item No.: 3210
Edge: SQ
Class: A
Color / Texture: White
Size: 24 x 24 x 5/8"

Note: All ceiling tile installation shall include tiles cut no less than 4" wide.

SUSPENSION SYSTEM for (ACT-1 & ACT-2):
Manufacturer: USG
Product: Grid
Profile: A, USG DX

PAINTED GYPSUM BOARD CEILING: — (GYP-1)
Paint Make: Sherwin Williams
Moisture-resistant, mildew resistant 100% acrylic latex paint
Color - TBD
Finish: Satin

IN LIEU OF ACT-1 PROVIDE: — (MAC-1*)
MODULAR ACOUSTICAL CEILING SYSTEM -
(BID ALTERNATE #5), refer to RCP on A202 :
Manufacturer: USG
Product: CEILING PLUS BARZ
Color / Texture: TBD - PREMIUM COLOR
Size: 2" Wide x 6" High x 8'-0" Long

SUSPENSION SYSTEM for (MAC-1*):
Torsion Spring Tee Grid

PAINTED GYPSUM BOARD CEILING IN EXHIBIT - — (GYP-2*)
(BID ALTERNATE #5 ONLY) :
Paint Make: Sherwin Williams
Color - TBD

DOORS:

HM Doors and frames (PT-2) — PT-2
Make, Model & Paint Color (Sherwin Williams) - TBD
Note: HM doors to be painted in field

Wood Doors - Stained (Prefinished): — ST-1
Make: Graham
Model: Plain Sliced White Maple
Stain Color - TBD

Aluminum Storefront Doors, Aluminum curtain walls, doors & windows:
Make, Model - TBD
Color: Black Anodized

TOILET PARTITION:

Make: Scranton Products
Model: Floor Mounted-Overhead Braced
Color - TBD (Traditional Series)
Finish: Orange Peel
Note: coordinate hardware with architect

MILLWORK FINISHES:

SOLID SURFACE COUNTERTOPS:
(SS-1) — SS-1
Make: WilsonArt
Model & Color - TBD

(SS-2) (BID ALTERNATE #3) — SS-2
Make: WilsonArt
Model & Color - TBD

OPERABLE PARTITIONS:

Manufacturer: Moderco
PLASTIC LAMINATE: — PL-1
Make: Formica
Color - TBD
TEXTILE: — TXL-1
Make: Knoll Textile
Model: Villa Backed
Color - TBD
Note: Bid Alternate# 4 includes glass panel in each partition, refer to DTL 1.2/A801

TRANSITION EDGE:

(WITHIN BID ALTERNATE #6) — SCH-1*
SCHLUTER EDGE
Model: RENO-U
Application: Sloped transition, f.e.:
Resinous floor to carpet
Height: to be determined in field

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

SLADE PARK BUILDING

No.	REVISIONS	DATE
1	ISSUED FOR BID AND PERMIT	11-20-26

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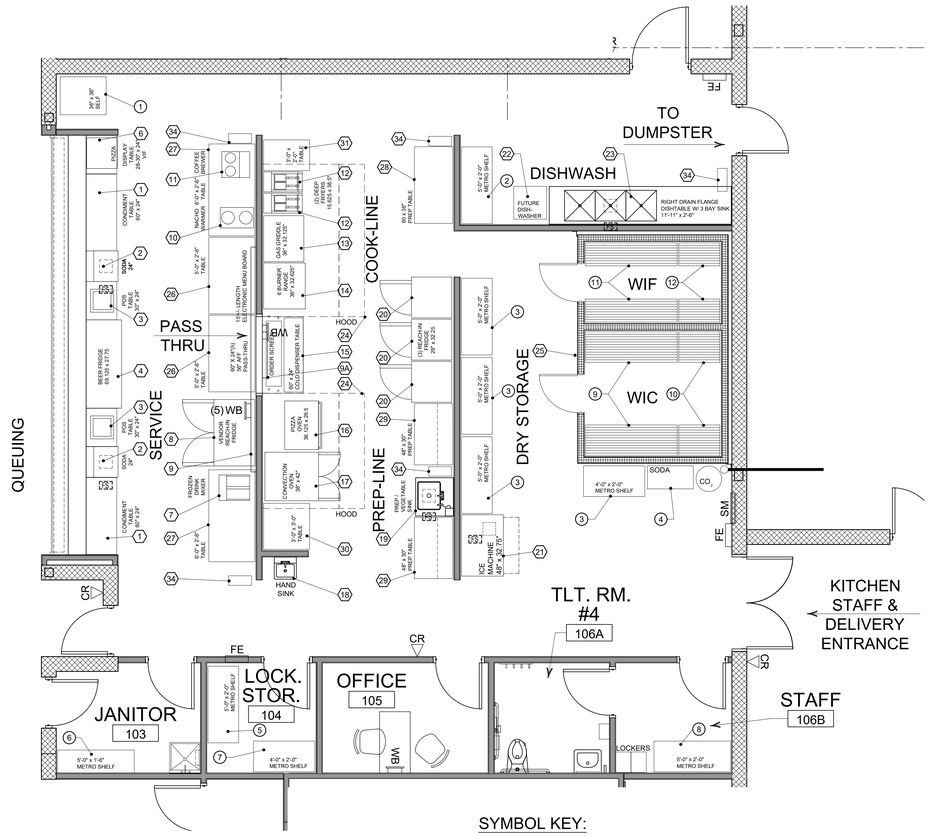
DRAWING TITLE:

FINISH PLAN, SCHEDULE AND DETAILS

DATE: 11-16-26	DRAWING No.
SCALE: AS SHOWN	A-801
DRAWN BY: AH	
CHECKED BY: DHH	
PROJECT No: 23-006	



KITCHEN EQUIPMENT PLAN

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

SYMBOL KEY:

- (XX) EQUIPMENT NUMBER
- (XX) SHELVING NUMBER

REFER TO THE PLUMBING DRAWINGS FOR THE FOLLOWING:

- FS FLOOR SINK
- FCO FLOOR CLEAN OUT
- FD FLOOR DRAIN

KITCHEN EQUIPMENT SCHEDULE (XX)

QUAN.	No.	DESCRIPTION	MFR.	MODEL No.	FURNISHED BY	INSTALLED BY	DIMENSIONS	REMARKS
2	1	CONDIMENT TABLE 60"	-	-	OWNER	CONTRACTOR	60" W x 25" D	
2	2	SODA 24"	-	-	OWNER	CONTRACTOR	24" W x 24" D	
2	3	POS TABLE 30"	-	-	OWNER	CONTRACTOR	30" W x 30" D	
1	4	BEER FRIDGE	AVANTCO	178UDD3HC	OWNER	CONTRACTOR	69½" W x 27½" D x 35½" H	
1	5	DISPLAY TABLE 36" x 24"	-	-	OWNER	CONTRACTOR	-	
1	6	PIZZA	-	-	OWNER	CONTRACTOR	-	
1	7	FROZEN DRINK MIXER	-	-	OWNER	CONTRACTOR	-	
1	8	VENDOR REACH-IN FRIDGE	-	-	OWNER	CONTRACTOR	-	
5	9	TOTAL 15's LENGTH ELECTRONIC MENU BOARDS	-	-	BY VENDOR	BY VENDOR	-	
1	9A	PRE-ORDER ELECTRONIC SCREEN			BY VENDOR	BY VENDOR		
1	10	NACHO WARMER	-	-	OWNER	CONTRACTOR	-	
1	11	COFFEE BREWER	BUNN	34600.0006	OWNER	CONTRACTOR	21.8" W x 23.8" D x 35.7" H	
2	12	DEEP FRYER 15.625" x 38.5"	PITCO	35C+	OWNER	CONTRACTOR	15½" W x 30 ⅜" D x 47½" H	
1	13	GAS GRIDDLE 36" x 32.125"	CPG	35136GTRBNL	OWNER	CONTRACTOR	36" W x 32½" D x 40 ⅜" H	
1	14	6 BURNER RANGE 36" x 32.625"	CPG	351S36N	OWNER	CONTRACTOR	36" W x 32½" D x 60½" H	
1	15	60" x 26" COLD DISPENSER TABLE	AVANTCO	360CPT48	OWNER	CONTRACTOR	47½" W x 15 9/16" D x 11½" H	
1	16	PIZZA OVEN 36.125" x 26.5"	COMSTOCK-CASTLE	CC-PO31	OWNER	CONTRACTOR	36.125" W x 26.37" D x 28.25" H	
1	17	CONVECTION OVEN 38" x 42"	CPG	351FGC200NK	OWNER	CONTRACTOR	38" W x 42" D x 68" H	
1	18	HAND SINK	-	-	OWNER	CONTRACTOR	-	
1	19	PREP/VEGETABLE SINK	-	-	OWNER	CONTRACTOR	-	
3	20	REACH-IN FRIDGE 29" x 32.25"	AVANTCO	178A23FHC	OWNER	CONTRACTOR	29" W x 32½" D x 82½" H	
1	21	ICE MACHINE 48" x 32.75"	SCOTSMAN	B948S	OWNER	CONTRACTOR	48" W x 34" D x 44" H	
1	22	DISHWASHER	-	-	-	-	-	FUTURE CONNECTIONS ONLY
1	23	RIGHT DRAIN FLANGE DISHTABLE W/ 3-BAY SINK 11'-11" x 2'-6"	-	-	OWNER	CONTRACTOR	143" W x 30" D	
2	24	HOOD	-	-	OWNER	CONTRACTOR	-	
1 ea	25	FREEZER/COOLER	AMERIKOOLER	-	OWNER	CONTRACTOR	178½" W x 117½" D x 111" H	
2	26	5'-0" x 2'-6" TABLE	-	-	OWNER	CONTRACTOR	60" W x 30" D	
1	27	6'-0" x 2'-6" TABLE	-	-	OWNER	CONTRACTOR	72" W x 30" D	
1	28	60 x 36" PREP TABLE	-	-	OWNER	CONTRACTOR	60" W x 36" D	
2	29	48" x 36" PREP TABLE WITH UPPER SHELF AND HANGING RACK	-	-	OWNER	CONTRACTOR	48" W x 36" D	
1	30	3'-0" x 3'-0" TABLE	-	-	OWNER	CONTRACTOR	36" W x 36" D	
1	31	3'-0" x 2'-6" TABLE	-	-	OWNER	CONTRACTOR	36" W x 30" D	
1	32	CO2 BULK STORAGE TANK	NuCO2	SMALL TANK - 100#	BY VENDOR	BY VENDOR	28" H x 20" Dia	VENDOR AND SIZE TBD
1	33	SODA RACK	METRO		OWNER	OWNER	36" W x 15" D x XX" H	HGT PER OWNER /VENDOR
1	33A	CARBONATOR	-	-	BY VENDOR	BY VENDOR	12" W x 9" D x 10 1/2" H	
1	33B	SODA PUMP	-	-	BY VENDOR	BY VENDOR		
5	34	TRASH CAN (KITCHEN)	SELECTED BY OWNER	-	OWNER	OWNER	SELECTED BY OWNER	EXACT LOCATION BY OWNER

NOTES:
1. STAINLESS STEEL WORK TABLES W/ DROP-IN SINKS ARE TO BE INSTALLED BY THE CONTRACTOR.
2. G.C. TO COORDINATE THE DELIVERY OF THE EQUIPMENT WITH THE OWNER
3. INSTALLATION OF ALL EQUIPMENT BY THE OWNER EXCEPT AS OTHERWISE NOTED
4. CONTRACTOR SHALL PERFORM ALL FINAL ELECTRICAL, PLUMBING AND MECHANICAL CONNECTIONS

SHELVING SCHEDULE (XX)

QUAN.	No.	LOCATION	MANUFACTURER	MODEL No.	DIMENSIONS
1	1	SERVICE	METRO	-	36" W x 36" D x 60" H
1	2	DISHWASH	METRO	-	60" W x 24" D x 60" H
3	3	DRY STORAGE	METRO	-	60" W x 24" D x 60" H
1	3A	DRY STORAGE	METRO	-	45" W x 24" D x 60" H
1	4	SODA	METRO	-	36" W x 18" D x 60" H
1	5	LOCK STOR.	METRO	-	60" W x 24" D x 60" H
1	6	JANITOR	METRO	-	60" W x 18" D x 60" H
1	7	LOCK STOR.	METRO	-	48" W x 24" D x 60" H
1	8	STAFF	METRO	-	60" W x 24" D x 60" H
2	9	WALK-IN COOLER	METRO	-	60" W x 24" D x 60" H
2	10	WALK-IN COOLER	METRO	-	30" W x 24" D x 60" H
2	11	WALK-IN FREEZER	METRO	-	60" W x 18" D x 60" H
2	12	WALK-IN FREEZER	METRO	-	30" W x 18" D x 60" H

NOTES:
1. ALL SHELVING FURNISHED AND INSTALLED BY THE OWNER
2. VIF SIZE PRIOR TO ORDERING

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

ISSUED FOR BID AND PERMIT 11-20-26

No. REVISIONS DATE

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DRAWING TITLE:

KITCHEN EQUIPMENT PLAN & SCHEDULE

DATE: 5-4-26
SCALE: AS SHOWN
DRAWN BY: SER
CHECKED BY:
PROJECT No: 23-006

DRAWING No.

A-901

SPRINKLER SCHEDULE

SYMBOL	MAKE / MODEL	DESCRIPTION	TEMP / K FACTOR	FINISH	LOCATIONS	NOTES
O_M	VICTAULIC – FL–QR SIN V2704	UPRIGHT QUICK RESPONSE	ORDINARY / 5.6K	BRASS	UNDER MEZZANINE IN LOADING DOCK	1,2,4
O	VICTAULIC – FL–QR SIN V2704	UPRIGHT QUICK RESPONSE	ORDINARY / 5.6K	BRASS	ASSEMBLY SPACE, CONFERENCE ROOMS, LOADING DOCK	1,2,4
●	VICTAULIC – FL–QR/C SIN V3802	FLAT CONCEALED PENDENT QUICK RESPONSE	ORDINARY / 5.6K	FACTORY FINISH WHITE	OFFICES, VESTIBULES, TOILET ROOMS	1,2,3

NOTES:
1. PROVIDE ORDINARY TEMPERATURE RATED SPRINKLERS.
2. PROVIDE SPRINKLERS IN COMPLIANCE WITH NFPA–13 (2022) TABLE 7.2.4.1 AND SECTION 9.4.2.
3. COORDINATE COVER PLATE COLOR WITH ARCHITECT PRIOR TO ORDERING AND INSTALLING.
4. PROVIDE LISTED GUARDS ON SPRINKLERS SUBJECT TO MECHANICAL INJURY, INCLUDING SPRINKLERS IN STORAGE ROOMS.

MINIMUM DENSITY FOR FIRE SPRINKLER PIPING DESIGN

HAZARD CLASSIFICATION	DENSITY	SYSTEM TYPE	AREA OF APPLICATION	MAXIMUM SPACING	HOSE STREAM	LOCATIONS
LIGHT HAZARD	0.10	WET NFPA 13 2022 EDITION	1500 SQ FT	225 SQ FT	100 GPM	OFFICES, VESTIBULES, TOILET ROOMS
ORDINARY HAZARD GROUP 1	0.15	WET NFPA 13 2022 EDITION	1500 SQ FT	130 SQ FT	250 GPM	ASSEMBLY SPACE, CONFERENCE ROOMS, JANITORS CLOSETS, LOADING DOCK

PIPE MATERIAL SCHEDULE

SYSTEM TYPE	PIPE MATERIAL	FITTINGS	CONNECTIONS
WET PIPE SYSTEM 2–INCH AND SMALLER	ASTM A53, GRADE B SCHEDULE 40 BLACK STEEL	MALLEABLE IRON	THREADED, FLANGED, OR ROLLED GROOVE ENDS
WET PIPE SYSTEM 2½–INCH AND LARGER	ASTM A53, GRADE B SCHEDULE 10 BLACK STEEL	MALLEABLE IRON	THREADED, FLANGED, OR ROLLED GROOVE ENDS
*WET PIPE SYSTEM	*SCHEDULE 40 CPVC	*SCHEDULE 40 CPVC	*SOLVENT JOINTS

* FOR USE IN CONCEALED / PROTECTED AREAS ONLY.
LIGHT HAZARD AREAS AND ORDINARY HAZARD ROOMS LESS THAN 400 SQ. FT. ONLY.

SITE WATER PRESSURES

STATIC	59	PSI
RESIDUAL	33	PSI
FLOW	680	GPM

NOTE:
1. FLOWED HYDRANT ON 8" FIRE SERVICE MAIN EAST OF CASINO AND GAUGED HYDRANT NORTHWEST OF CASINO. FLOW TEST PERFORMED BY NUSSBAUMER & CLARKE, INC. ON 04/08/2026 AT 10:35 AM.
2. WATER FLOW DATA IS TO BE NO MORE THAN 12 MONTHS OLD PER NFPA 13, 2022 EDITION. PROVIDE FOR A NEW WATER FLOW FOR HYDRAULIC CALCULATIONS IF DESIGNED PAST THE 12 MONTH REQUIREMENT.

FIRE DEPARTMENT CONNECTIONS

SERVICE	TYPE	SIZE	QUANTITY	GPM
SPRINKLER INLET	STORZ	4"x5" NPT	1	250

NOTE: COORDINATE FINAL FDC CONNECTION TYPE AND SIZE WITH LOCAL FIRE DEPARTMENT PRIOR TO ORDERING AND INSTALLATION

CLEAN AGENT SCHEDULE

SYMBOL	DESCRIPTION
FSCP	CONTROL PANEL
A	ABORT SWITCH
M	MANUAL RELEASE
K	KEY DISCONNECT
S	SMOKE DETECTOR
N	1–1/2" NOZZLE
T1	STORAGE TANK WITH DISCHARGE PRESSURE SWITCH AND LOW PRESSURE SWITCH
T2	STORAGE TANK WITH DISCHARGE PRESSURE SWITCH AND LOW PRESSURE SWITCH
	HORN / STROBE
SD	SMOKE DAMPER (BY OTHERS)

FIRE PROTECTION GENERAL NOTES:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIELD FITTING AND QUANTITY OF WORK. CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND SHALL BE RESPONSIBLE TO REPAIR ANY EXISTING CONDITIONS DISTURBED OR DAMAGED DURING CONSTRUCTION TO MATCH EXISTING SURFACE CONDITIONS.

B. EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND COORDINATE WORK WITH ALL OTHER TRADES.

C. PROVIDE ALL CUTTING, PATCHING AND FIRE STOPPING REQUIRED TO ACCOMPLISH WORK SHOWN. PATCH AND SEAL OPENINGS TO MATCH ADJACENT EXISTING WALLS, FLOORS, CEILINGS, ETC UNLESS OTHERWISE INDICATED. CONCEAL ALL WORK IN FINISHED AREAS UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ARCHITECT.

D. FIELD VERIFY ALL LOCATIONS AND DIMENSIONS OF (PIPING, DUCTWORK, EQUIPMENT, STRUCTURAL ELEMENTS, ETC.) PRIOR TO COMMENCING WITH WORK. COORDINATE AND VERIFY THE INSTALLATION OF SPRINKLER EQUIPMENT AND PIPING AGAINST DUCTWORK, LIGHTING AND PIPING SHOP DRAWINGS FROM OTHER TRADES PRIOR TO COMMENCING WITH WORK. PROVIDE ALL IDENTIFIED CONFLICTS IN WRITING TO THE ARCHITECT. PROVIDE FITTINGS, TRANSITIONS, OFFSETS, ELEVATION CHANGES, ETC. TO MINIMIZE CONFLICTS WITH EXISTING CONDITIONS.

E. THE DRAWINGS ARE SCHEMATIC IN INTENT. PROVIDE AND INSTALL ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE INSTALLATION. ADJUST THE LOCATION OF ALL PIPING, EQUIPMENT AND CONNECTIONS TO ACCOMMODATE CONSTRUCTION CONDITIONS ENCOUNTERED; OBTAIN APPROVAL FROM THE ARCHITECT FOR ALL CHANGES. EQUIPMENT AND DEVICES SHALL BE FULLY ACCESSIBLE.

F. INSTALL ALL EQUIPMENT AND SYSTEMS IN COMPLETE COMPLIANCE WITH GOVERNING CODES AS RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION, MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.

G. ALL PHYSICAL ATTRIBUTES OF SPECIFIED PRODUCTS ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND / OR THE EQUIPMENT SCHEDULES. THE CONTRACTOR IS RESPONSIBLE FOR ALL DESIGN CHANGES BROUGHT ABOUT BY THE USE OF ITEMS SUBMITTED BY OTHER MANUFACTURERS AT NO COST TO OWNER. THE ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS FOR REASONS INCLUDING, BUT NOT LIMITED TO, THOSE ITEMS NOT MATCHING THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.

H. DO NOT SCALE DRAWINGS: REFER TO DIMENSIONED ARCHITECTURAL DRAWINGS TO DETERMINE EXACT LOCATION AND LENGTH OF ALL PIPING AND EQUIPMENT INSTALLED.

I. LOCATE PIPING TO PREVENT FREEZING. DO NOT LOCATE ANY WET PIPING IN EXTERIOR WALLS OR IN UNHEATED SPACES.

J. PROVIDE FIRE STOPPING MATERIAL WHERE PIPING PENETRATES WALLS AND FLOORS.

K. MAINTAIN SPACING OF SPRINKLERS IN ACCORDANCE WITH NFPA 13, 2022. PROVIDE ADDITIONAL SPRINKLERS AT ALL LOCATIONS WHERE OBSTRUCTIONS OR OTHER ELEMENTS INTERFERE WITH SPRINKLER DISCHARGE REACHING THE PROTECTED AREA.

L. COORDINATE THE LOCATION OF ALL DRAINS AND INSPECTOR'S TEST DRAINS TO PLUMBING DRAINS LOCATED IN UNFINISHED AREAS, AND SPECIFICALLY PROVIDED FOR THIS PURPOSE, OR TO AN APPROVED EXTERIOR DRAINAGE LOCATION.

M. PROVIDE ALL ACCESS PANELS NECESSARY FOR BALL DRIP, INSPECTOR'S TEST STATIONS, AND FOR ALL OTHER CONCEALED EQUIPMENT THAT REQUIRES ACCESS.

N. LOCATE SPRINKLER HEADS IN THE CENTER OR QUARTER PANEL OF CEILING PANELS IN ALL FINISHED AREAS.

O. PAINT ALL FIRE PROTECTION PIPING WHERE EXPOSED, COLOR AS SELECTED BY ARCHITECT. DO NOT PAINT SPRINKLERS.

P. PERFORM ALL WORK IN COMPLIANCE WITH NFPA 13, NFPA 13R, AND NFPA 25 (2022 VERSIONS) AND THE BUILDING CODE AND FIRE CODE OF NEW YORK STATE (2025 VERSION), AS WELL AS WITH ALL LOCAL AND FEDERAL CODES AND ORDINANCES, OTHER APPLICABLE NFPA STANDARDS AND REFERENCED STANDARDS.

Q. PROVIDE PIPING ROUGH IN FOR ALL WORK; OBTAIN ALL NECESSARY INSPECTIONS BY AUTHORITY HAVING JURISDICTION PRIOR TO CLOSING WALLS OR CEILINGS WHERE PIPING IS CONCEALED.

R. THE DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC., WHICH MAY BE REQUIRED. MAKE SUCH CHANGES IN THE PIPING AND LOCATION OF EQUIPMENT, ETC., TO ACCOMMODATE WORK, OBSTACLES, AND THE WORK OF OTHER CONTRACTORS.

S. PROVIDE PENDENT OR FLAT COVER CONCEALED SPRINKLERS IN ROOMS WITH SUSPENDED CEILINGS. PROVIDE UPRIGHT SPRINKLERS IN ROOMS WITHOUT SUSPENDED CEILINGS. VERIFY WITH ARCHITECTURAL REFLECTED CEILING PLANS. MATCH EXISTING SPRINKLER MANUFACTURER, TYPES, STYLES, K–FACTORS AND COLOR IN BUILDING.

T. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED OR FM GLOBAL APPROVED.

U. PROVIDE FOR THE PROPER OFF–SITE DISPOSAL OF ALL CONSTRUCTION DEBRIS AND/OR EXCAVATED MATERIALS ASSOCIATED WITH WORK IN THIS TRADE IN COMPLIANCE WITH LOCAL, NEW YORK STATE AND FEDERAL LAWS AND REQUIREMENTS.

V. INSTALL ALL PIPING, EQUIPMENT, ETC. TO AVOID INTERFERENCE WITH THE OPERATION AND SERVICING OF ALL EQUIPMENT. DO NOT INSTALL ANYTHING ABOVE OR WITHIN 3 FT. IN FRONT OF ELECTRICAL GEAR.

W. CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATION TO ALL EXISTING FINISHES IN AREAS NOT ASSOCIATED WITH CONTRACT.

X. THE PLANS ARE INDICATIVE OF THE END RESULT AND DO NOT INCLUDE INTERIM CONSTRUCTION NECESSARY FOR STORE OPERATION. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION/COSTS NECESSARY FOR INTERIM CONSTRUCTION.

Y. PERFORM SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING FIRE PROTECTION MAINS AND BRANCH PIPING PRIOR TO REMOVAL AND INSTALLATION.

Z. COORDINATE HOSE THREAD TYPES WITH THE LOCAL FIRE DEPARTMENT HAVING JURISDICTION.

AA. PROVIDE FOR THE ARRANGEMENT OF PIPING IN STAIRWELLS TO BE CLEAR OF THE AREA OF TRAVEL, AND TO NOT OBSTRUCT ANY MEANS OF EGRESS.

AB. ALL PENETRATIONS IN CONCRETE/MASONRY WALLS BELOW GRADE FOR FIRE PROTECTION PIPING SHALL BE INSTALLED WITH SLEEVES. EXACT SLEEVE SIZES AND LOCATIONS SHALL BE DETERMINED AND COORDINATED IN THE FIELD BY THE CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE. NOTE: SIX INCH DIAMETER SLEEVES OR SMALLER SHALL BE POSITIONED TO AVOID CONFLICT WITH STEEL REINFORCEMENT. ANY FOUNDATION WALL SLEEVES THAT ARE LARGER THAN SIX INCH DIAMETER SHALL BE IDENTIFIED BY THE CONTRACTOR ON STEEL REINFORCEMENT SHOP DRAWINGS FOR REVIEW BY STRUCTURAL ENGINEER.

AC. PROVIDE INDICATING–TYPE SPRINKLER CONTROL VALVES.

AD. SPRINKLER CONTROL VALVES SHALL BE LOCKED IN WIDE OPEN POSITION AND PROVIDED WITH TAMPER SWITCHES WIRED TO THE BUILDING FIRE ALARM SYSTEM.

AE. PROVIDE GALVANIZED PIPE FOR ALL FIRE DEPARTMENT SYSTEM PIPING.

AF. HYDROSTATICALLY TEST ALL UNDERGROUND PIPING AT 200 PSIG FOR 2 HOURS. REPAIR LEAKS AND RE–TEST AS NECESSARY.

AG. FLUSH UNDERGROUND MAINS IN ACCORDANCE WITH FM GLOBAL DATA SHEET 3–10 PRIOR TO CONNECTING TO ABOVE GROUND SPRINKLER SYSTEM PIPING.

AH. SUBMIT APPROVED SPRINKLER PIPING DRAWINGS, WORKING PLANS, PREPARED ACCORDING TO NFPA 13, 2022 EDITION THAT HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED BY A NICET LEVEL III OR HIGHER TECHNICIAN UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN NEW YORK STATE AND SHALL BE SEALED.

AI. CONTRACTOR SHALL PERFORM WATER FLOW TEST PRIOR TO SUBMITTING FIRE PROTECTION SHOP DRAWINGS AND HYDRAULIC CALCULATIONS. WATER FLOW TEST USED FOR THE SYSTEM DESIGN AND HYDRAULIC CALCULATIONS SHALL BE NO MORE THAN 12 MONTHS OLD PER NFPA 13, 2022 EDITION, SECTION 4.5.1.1. CONTRACTOR SHALL VERIFY WATER PRESSURES AVAILABLE AND SIZE PIPING ACCORDINGLY.

AJ. CONTRACTOR SHALL NOTIFY OWNER OF ANY AND ALL REQUIRED SHUT–DOWNS MINIMUM 2–DAYS IN ADVANCE AND SHALL PROVIDE FIRE–WATCH AS REQUIRED FOR ANY SHUT–DOWNS OF ACTIVE AREAS DURING CONSTRUCTION.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FP	FIRE PROTECTION
FS	FLOW SWITCH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TS	TAMPER SWITCH
TYP.	TYPICAL
VIF	VERIFY IN FIELD

SYMBOLS

SPRINKLER PIPING
SPRINKLER PIPING BELOW GRADE
SYSTEM DRAIN PIPING
PIPE TURNED UP
PIPE TURNED DOWN
CAP
FIRE DEPARTMENT CONNECTION
BACKFLOW PREVENTER (DCDA)
TAMPER SWITCH
FLOW SWITCH
GATE VALVE
CHECK VALVE
PRESSURE GAUGE
DEMOLITION POINT
CONNECTION POINT

NOTE: ABBREVIATIONS AND SYMBOLS ON THIS DRAWING ARE FOR REFERENCE ONLY. ALL SYMBOLS MAY NOT BE USED IN THE FOLLOWING DOCUMENTS.

LIGHT HAZARD PIPE SCHEDULE

1 IN.	2 SPRINKLERS
1–1/4 IN.	3 SPRINKLERS
1–1/2 IN.	5 SPRINKLERS
2 IN.	10 SPRINKLERS
2–1/2 IN.	30 SPRINKLERS
3 IN.	60 SPRINKLERS

ORDINARY HAZARD PIPE SCHEDULE

1 IN.	2 SPRINKLERS
1–1/4 IN.	3 SPRINKLERS
1–1/2 IN.	5 SPRINKLERS
2 IN.	10 SPRINKLERS
2–1/2 IN.	20 SPRINKLERS
3 IN.	40 SPRINKLERS
4 IN.	100 SPRINKLERS

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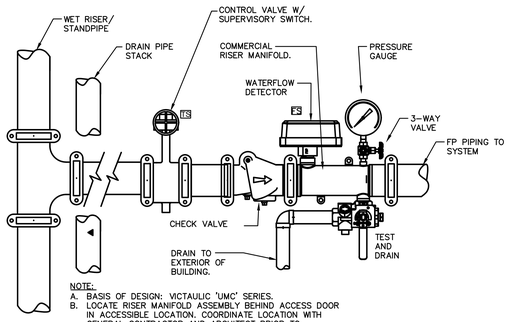
DRAWING TITLE:

FIRE PROTECTION LEGENDS AND SCHEDULES

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
FP-001



FLOOR CONTROL MANIFOLD RISER
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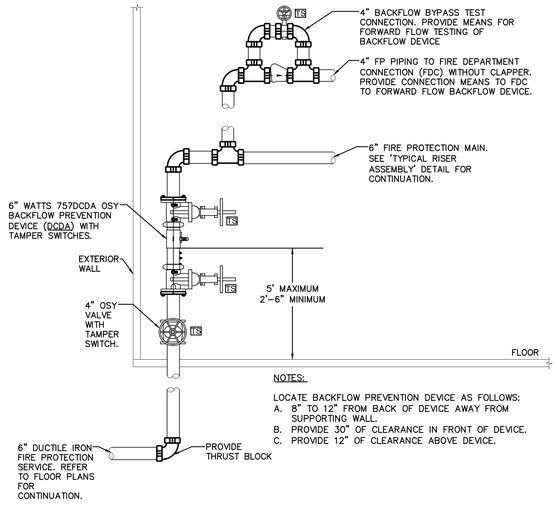

FIRE PROTECTION SERVICE - VERTICAL
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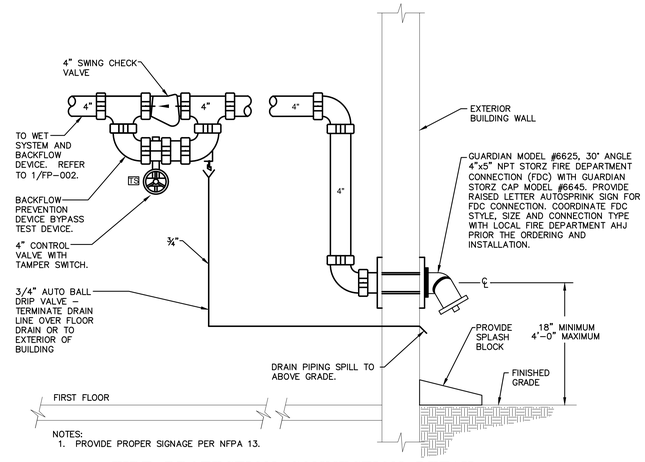

FIRE PROTECTION CONNECTION DETAIL
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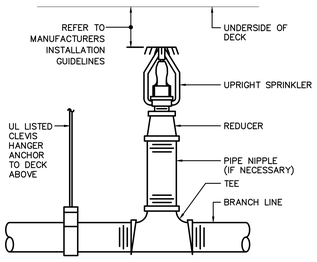

UPRIGHT SPRINKLER DETAIL
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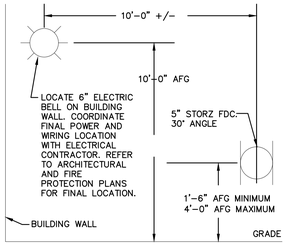

ELECTRIC BELL DETAIL
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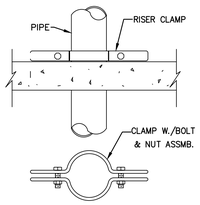

RISER CLAMP DETAIL
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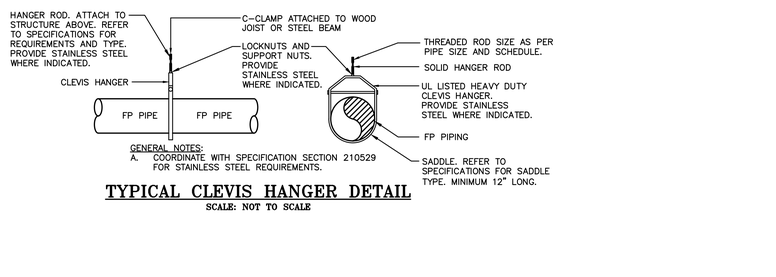

TYPICAL CLEVIS HANGER DETAIL
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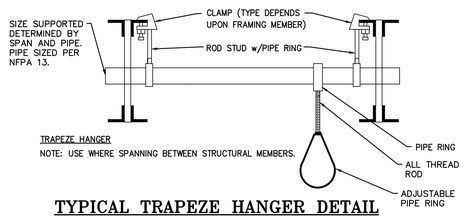

TYPICAL TRAPEZE HANGER DETAIL
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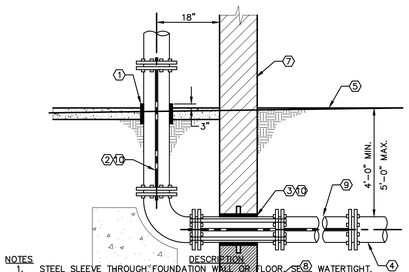
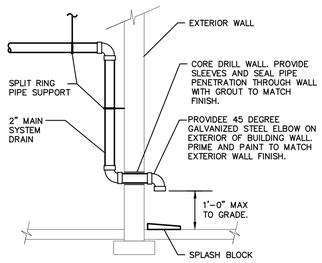


NOTES

	DESCRIPTION
1.	STEEL SLEEVE THROUGH FOUNDATION WALL OR FLOOR SEE WATERTIGHT.
2.	ALL RODS SHALL BE 3/4" DIAMETER MIN. WITH MEGA-LUG CLAMPS.
3.	STEEL SLEEVE THROUGH FOUNDATION WALL. PROVIDE MECHANICAL LINK SEAL WATER TIGHT. PROVIDE SLEEVE (2) SIZES LARGER THAN PIPE DIAMETER.
4.	FIRE MAIN. PROVIDE AWWA C104, C110, 151, AND C205 DUCTILE IRON CEMENT LINED PIPE WITH MECHANICAL 'MEGA-LUG' FITTINGS. REFER TO PLANS AND DETAILS FOR SIZING.
5.	FINISHED GRADE.
6.	THRUST BLOCK. REFER TO THRUST BLOCK DETAIL FOR ADDITIONAL INFORMATION.
7.	EXTERIOR BUILDING WALL.
8.	FOOTER. REFER TO ARCH FOUNDATION PLANS FOR ADDITIONAL INFORMATION.
9.	REFER TO UTILITY TRENCH DETAIL FOR PIPE BEDDING AND BACKFILL REQUIREMENTS.
10.	PROVIDE RESTRAINED MECHANICAL JOINTS THROUGH WALLS AND FLOORS.

FIRE SERVICE ENTRANCE DETAIL
SCALE: NOT TO SCALE



SPLASH BLOCK DETAIL
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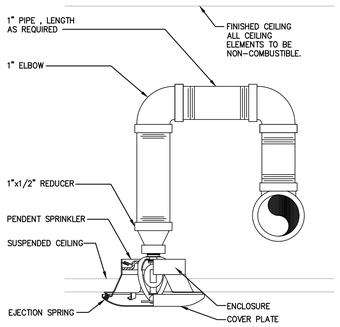
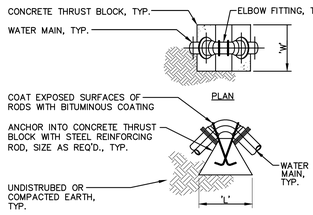


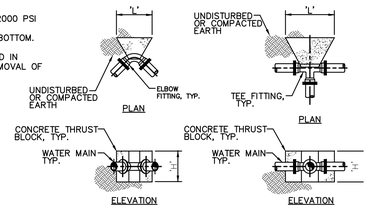
CONCEALED PENDENT SPRINKLER DETAIL
SCALE: NOT TO SCALE

THRUST BLOCK NOTES:

1. THRUST BLOCK DIMENSIONS ASSUME A MINIMUM ALLOWABLE SOIL BEARING OF 2000 PSI AND MAXIMUM INTERNAL PRESSURE OF 200 PSIG.
2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED TRENCH WALL AND BOTTOM.
3. CONCRETE SHALL BE 3000 PSI @ 28 DAYS MIX.
4. ALL PIPE, VALVES OR FITTINGS IN CONTACT WITH CONCRETE SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT. THRUST BLOCKS SHALL BE PLACED TO ALLOW REMOVAL OF JOINT BOLTS OR RETAINER GLANDS.



VERTICAL THRUST BLOCKING



HORIZONTAL THRUST BLOCKING

PIPE SIZE	DIMENSION SCHEDULE (DIMENSIONS IN FEET) 90° ELBOW 'H'	90° ELBOW 'L'	45° ELBOW 'H'	45° ELBOW 'L'	22.5° ELBOW 'H'	22.5° ELBOW 'L'	11.25° ELBOW 'H'	11.25° ELBOW 'L'	TEE OR TAP SLEEVE 'H'	TEE OR TAP SLEEVE 'L'
4"	1.75'	3.5'	1.25'	2.5'	1.0'	2.0'	1.0'	2.0'	2.0'	4.0'
6"	1.75'	3.5'	1.25'	2.5'	1.0'	2.0'	1.0'	2.0'	2.0'	4.0'
8"	2.5'	4.75'	1.75'	3.5'	1.25'	2.5'	1.0'	2.0'	2.75'	5.5'
10"	3.0'	7.0'	2.5'	5.25'	1.75'	4.0'	1.5'	2.0'	3.5'	7.0'

THRUST BLOCK DETAIL
SCALE: NOT TO SCALE

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

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DRAWING TITLE:

FIRE PROTECTION DETAILS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
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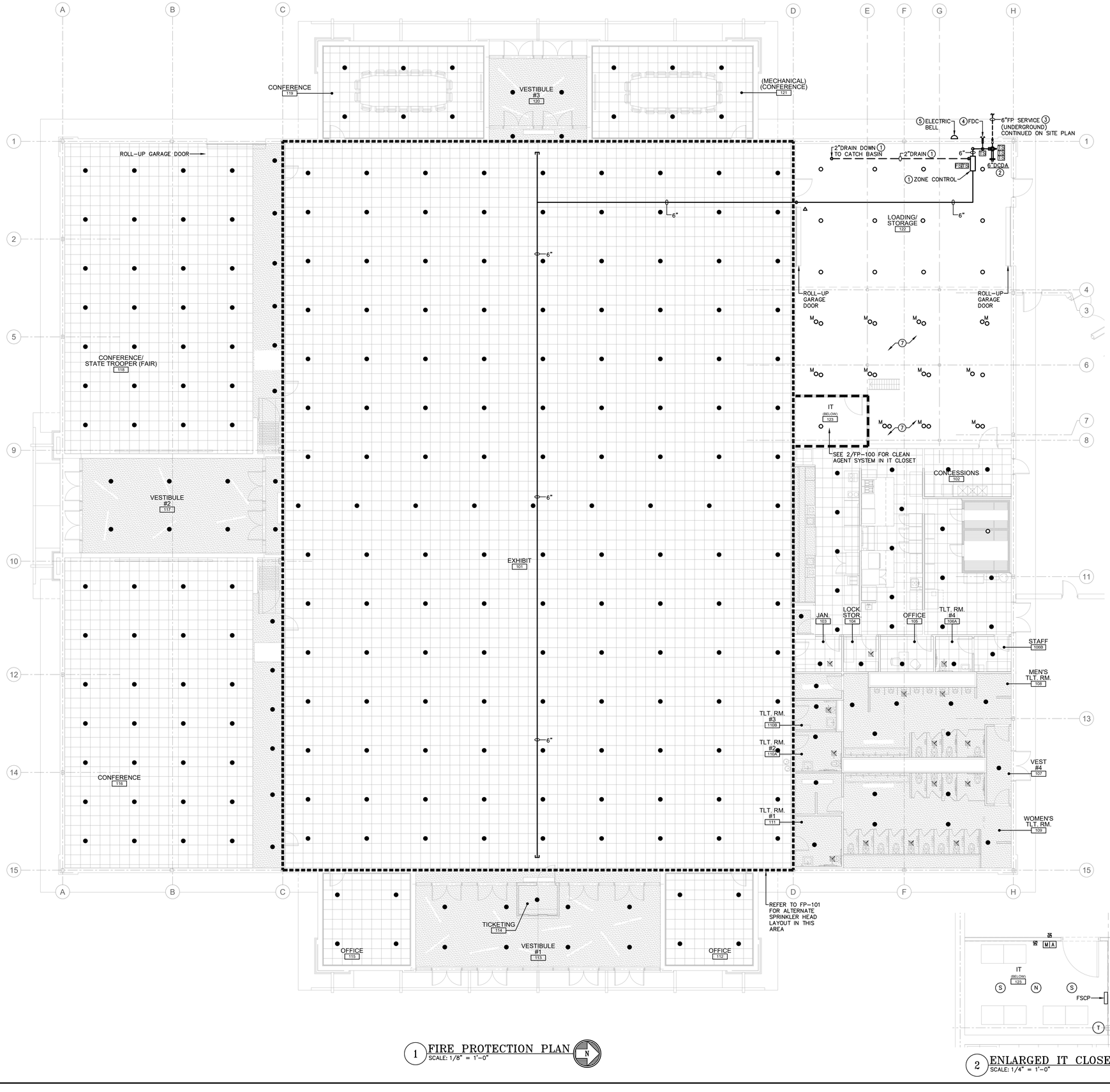
PROJECT No: 23-006

DRAWING No.
FP-002



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

2 ENLARGED IT CLOSET PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR OBSTRUCTIONS AND PROVIDE ALL ADDITIONAL PIPING AND SPRINKLER HEADS REQUIRED TO PROVIDE APPROPRIATE COVERAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FINAL CEILING PLAN, MECHANICAL EQUIPMENT, AND LIGHTING LAYOUT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SPRINKLER MODIFICATIONS REQUIRED FOR FINAL CEILING PLAN.

B. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ARCHITECT, ENGINEER, AND OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE ALL PIPING MATERIALS AND LABOR TO ACHIEVE DESIRED FINISH.

C. FINAL PIPE SIZES AND LAYOUT SHALL BE DETERMINED BY CONTRACTOR.

D. PROVIDE CORE DRILL AND FIRE STOPPING AT ALL FLOOR AND RATED WALL PENETRATIONS. REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS OF RATED ASSEMBLIES. COORDINATE CORE DRILL REQUIREMENTS WITH STRUCTURAL DOCUMENTS.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF CEILING AS REQUIRED FOR INSTALLATION OF SPRINKLERS, PIPING, ETC.

DRAWING NOTES ①:

1. PROVIDE ZONE CONTROL RISER ASSEMBLY. PROVIDE 2" DRAIN FROM ZONE CONTROL ASSEMBLY AND EXTEND TO ADJACENT CATCH BASIN. REFER TO DETAILS.
2. PROVIDE 6" DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTION DEVICE, WATTS '757DCDA' OR SIMILAR. INSTALL DCDA IN VERTICAL ORIENTATION. MAINTAIN ALL REQUIRED CLEARANCES. REFER TO DETAILS.
3. PROVIDE 6" FIRE PROTECTION SERVICE PIPING BELOW GRADE. REFER TO SITE PLAN FOR CONTINUATION. SAW CUT AND PATCH EXTERIOR WALL FOR PIPE PENETRATION THROUGH EXTERIOR WALL.
4. PROVIDE 4"x5" STORZ FIRE DEPARTMENT CONNECTION (FDC) WITH 30° DEGREE ANGLE. COORDINATE TYPE OF DEVICE AND FINAL LOCATION OF DEVICE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING AND INSTALLATION. PROVIDE 4" FIRE PROTECTION PIPING FROM FIRE DEPARTMENT CONNECTION. PROVIDE SIGNAGE PER NFPA 13. REFER TO DETAILS.
5. PROVIDE ELECTRIC ALARM BELL. COORDINATE LOCATION OF ELECTRIC ALARM BELL WITH ELECTRICAL CONTRACTOR, ARCHITECT, AND OTHER TRADES PRIOR TO INSTALLATION. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
6. PROVIDE HORIZONTAL SIDEWALL SPRINKLER UNDER GARAGE DOOR. EXTEND PIPING FROM SPRINKLER TO FIRE PROTECTION MAINS. PROVIDE ALL FITTINGS AS REQUIRED. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
7. PROVIDE UPRIGHT SPRINKLERS AT CEILING OF LOADING DOCK.

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FIRE PROTECTION FLOOR PLAN

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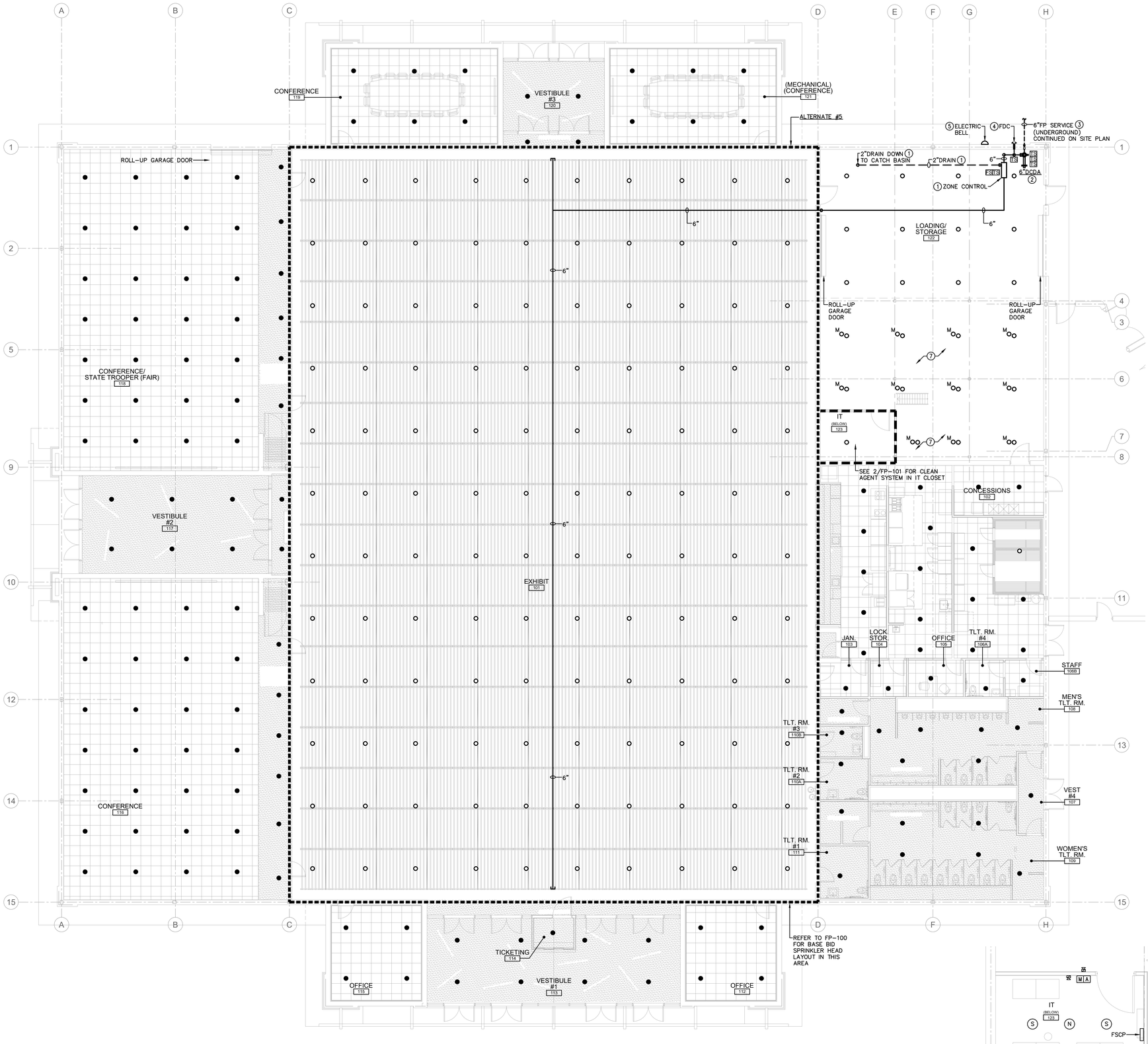
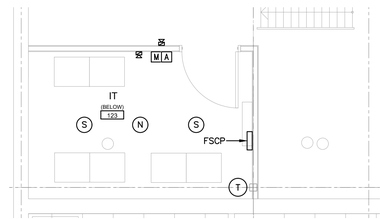
SCALE: AS SHOWN	
DRAWN BY: MRS	FP-100
CHECKED BY: DGI	
PROJECT No: 23-006	



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



2 ENLARGED IT CLOSET PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR OBSTRUCTIONS AND PROVIDE ALL ADDITIONAL PIPING AND SPRINKLER HEADS REQUIRED TO PROVIDE APPROPRIATE COVERAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FINAL CEILING PLAN, MECHANICAL EQUIPMENT, AND LIGHTING LAYOUT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SPRINKLER MODIFICATIONS REQUIRED FOR FINAL CEILING PLAN.

B. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ARCHITECT, ENGINEER, AND OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE ALL PIPING MATERIALS AND LABOR TO ACHIEVE DESIRED FINISH.

C. FINAL PIPE SIZES AND LAYOUT SHALL BE DETERMINED BY CONTRACTOR.

D. PROVIDE CORE DRILL AND FIRE STOPPING AT ALL FLOOR AND RATED WALL PENETRATIONS. REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS OF RATED ASSEMBLIES. COORDINATE CORE DRILL REQUIREMENTS WITH STRUCTURAL DOCUMENTS.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF CEILING AS REQUIRED FOR INSTALLATION OF SPRINKLERS, PIPING, ETC.

DRAWING NOTES ⓓ:

1. PROVIDE ZONE CONTROL RISER ASSEMBLY. PROVIDE 2" DRAIN FROM ZONE CONTROL ASSEMBLY AND EXTEND TO ADJACENT CATCH BASIN. REFER TO DETAILS.
2. PROVIDE 6" DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTION DEVICE, WATTS '757DCDA' OR SIMILAR. INSTALL DCDA IN VERTICAL ORIENTATION. MAINTAIN ALL REQUIRED CLEARANCES. REFER TO DETAILS.
3. PROVIDE 6" FIRE PROTECTION SERVICE PIPING BELOW GRADE. REFER TO SITE PLAN FOR CONTINUATION. SAW CUT AND PATCH EXTERIOR WALL FOR PIPE PENETRATION THROUGH EXTERIOR WALL.
4. PROVIDE 4"x5" STORZ FIRE DEPARTMENT CONNECTION (FDC) WITH 30° DEGREE ANGLE. COORDINATE TYPE OF DEVICE AND FINAL LOCATION OF DEVICE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING AND INSTALLATION. PROVIDE 4" FIRE PROTECTION PIPING FROM FIRE DEPARTMENT CONNECTION. PROVIDE SIGNAGE PER NFPA 13. REFER TO DETAILS.
5. PROVIDE ELECTRIC ALARM BELL. COORDINATE LOCATION OF ELECTRIC ALARM BELL WITH ELECTRICAL CONTRACTOR, ARCHITECT, AND OTHER TRADES PRIOR TO INSTALLATION. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
6. PROVIDE HORIZONTAL SIDEWALL SPRINKLER UNDER GARAGE DOOR. EXTEND PIPING FROM SPRINKLER TO FIRE PROTECTION MAINS. PROVIDE ALL FITTINGS AS REQUIRED. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
7. PROVIDE UPRIGHT SPRINKLERS AT CEILING OF LOADING DOCK.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

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No. REVISIONS DATE

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DANIEL G. IGOE
094459
LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: 08/31/2029

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DRAWING TITLE:

FIRE PROTECTION FLOOR PLAN ALTERNATE No.5

DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	
DRAWN BY: MRS	
CHECKED BY: DGI	FP-101
PROJECT No: 23-006	

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DRAINAGE SAN	DRAINAGE VENT	WATER CW	WATER HW	MAKE AND MODEL AND ACCESSORIES
BF-1	BOTTLE FILLING STATION TWO STATION BI-LEVEL ADA COMPLIANT	2"	2"	1/2"	–	ELKAY MODEL #LZSTL8WSVRLK WALL MOUNTED BOTTLE FILLING STATION WITH LOWER AND UPPER BUBBLER STATIONS, FILTERED, REFRIGERATED 8.0 GPH CAPACITY, HEAVY DUTY VANDAL RESISTANT, 300 SERIES STAINLESS, WITH ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR, 120V/1PH POWER, 5.0 FULL LOAD AMPS, ADA COMPLIANT. PROVIDE ALL REQUIRED FASTENERS AND SECURE PER MANUFACTURERS REQUIREMENTS. INSTALL TO MEET ADA COMPLIANCE.
CB-1	CATCH BASIN	4"	2"	–	–	KISTNER CONCRETE 24"X24" SQUARE CATCH BASIN, 4000 PSI @28 DAYS CONCRETE, 5-9% ENTRAINED AIR, ASTM A496-A615 GRADE 60-60KSI STEEL, HS-20-44 LOADING, PROVIDE RAISED FRAME AS REQUIRED.
DCV-1	DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE	–	–	1/2"	–	WATTS MODEL #LF009 DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTION DEVICE, LEAD FREE, 1/2", WITH TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS.
EEW-1	EMERGENCY EYE/FACE WASH WALL-MOUNT ADA COMPLIANT	2"	2"	3/4"	3/4"	HAWS MODEL #7360BTWC 'AXION' BARRIER-FREE WALL-MOUNT EYE/FACE WASH, STAINLESS STEEL, ANSI/ISEA Z358.1 CERTIFIED, WITH IN-LINE STRAINER AND 16 GAUGE STAINLESS STEEL WALL BRACKET. PROVIDE WITH HAWS MODEL # 9201E 'AXION' THERMOSTATIC TEMPERING VALVE. VALVE SHALL BE EQUIPPED WITH POSITIVE SHUT-OFF OF HOT WATER SUPPLY WHEN COLD SUPPLY IS LOST. VALVE SHALL INCLUDE BUILT-IN COLD WATER BYPASS TO ENSURE FLOW OF DOMESTIC COLD WATER. PROVIDE WITH UNIVERSAL SIGN.
FCO	FLOOR CLEANOUT	–	–	–	–	WATTS MODEL #CO-1200-R, EPOXY COATED CAST IRON FLOOR CLEANOUT WITH 5-1/8" ROUND ADJUSTABLE GASKETED HEAVY DUTY STAINLESS STEEL TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB OUTLET, VANDAL PROOF.
FD-1	FLOOR DRAIN	4"	2"	–	–	WATTS MODEL #FD-100-A EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, 4", NO HUB, 6" DIAMETER NICKEL BRONZE STRAINER, WITH SEDIMENT BUCKET, VANDAL PROOF, WITH TRAP GUARDS.
FS-1	FLOOR SINK	4"	2"	–	–	MIFAB MODEL #FS-1730-150 FLOOR SINK, CAST IRON WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, 12"x12"x8" DEEP, ANTI SPLASH DOME STRAINER. HALF GRATE, NO HUB.
GI-1	GREASE INTERCEPTOR	4"	2"	–	–	SCHIER MODEL #GB-250 'GREAT BASIN', 100 GPM / 1,895 LB GREASE CAPACITY, 277 GAL LIQUID CAPACITY, SEAMLESS MOLDED HDPE, 4" FPT INLET/OUTLET. PROVIDE WITH H-20 TRAFFIC RATED CAST IRON COVER. PROVIDE ADDITIONAL RISER EXTENSIONS BASED ON FINAL GREASE INTERCEPTOR BURY DEPTH.
HB-1	HOSE BIBB	–	–	3/4"	–	WATTS MODEL #HY-450 MODERATE CLIMATE NARROW WALL HYDRANT, WITH LOCK, ANTI SIPHON.
HB-2	HOSE BIBB	–	–	3/4"	3/4"	(2) WATTS MODEL #HY-450 MODERATE CLIMATE NARROW WALL HYDRANTS, WITH LOCK, ANTI SIPHON (ONE FOR DOMESTIC COLD WATER, ONE FOR DOMESTIC HOT WATER).
IMB-1	ICE MAKER BOX	–	–	1/2"	–	SIOUX CHIEF MODEL #696RG1010 ICE MAKER BOX WITH FRAME, WITH QUARTER-TURN BALL VALVES AND ARRESTERS, FOR INSTALLATION IN A FIRE-RATED WALL, WITH 1/2" INLET AND 1/4" OUTLET, NSF 372 COMPLIANT.
L-1	LAVATORY WALL MOUNT ADA COMPLIANT	2"	2"	1/2"	1/2"	SLOAN MODEL #SS-3006 WALL-MOUNTED LAVATORY, WHITE VITROUS CHINA, FAUCET HOLES DRILLED 4" ON CENTER, WITH FRONT OVERFLOW, ADA COMPLIANT. PROVIDE WITH MANUFACTURER'S APPROVED WALL CARRIER OR SUPPORTS. AMERICAN STANDARD MODEL #7385.053 'RELIANT' FAUCET, 0.5 GPM, 4" CENTERSET, CERAMIC DISC CARTRIDGES, WITH SINGLE LEVEL HANDLE, ADA COMPLIANT. PROVIDE WITH STRAINER. PROVIDE SUPPLY KITS AS REQUIRED. PROVIDE ADA-COMPLIANT P-TRAP WITH ADA COMPLIANT WRAPPING, AS REQUIRED.
L-2	LAVATORY WALL MOUNT ADA COMPLIANT	2"	2"	1/2"	1/2"	SLOAN MODEL #DSWD-81000 'WEIR' WALL-MOUNTED LAVATORY, DESIGNER WHITE CORIAN SOLID SURFACE, CONTINUOUS TROUGH BASIN, WITH ANGLED STAINLESS STEEL ENCLOSURE, ADA COMPLIANT. PROVIDE WITH MANUFACTURER'S APPROVED WALL CARRIER OR SUPPORTS. SLOAN MODEL #EBF-85 SENSOR FAUCET, 0.35 GPM, BATTERY POWERED, 4" TRIM PLATE, WITH BELOW-DECK MIXING VALVE. ADA COMPLIANT. PROVIDE WITH STRAINER. PROVIDE SLOAN MODEL #ESD-800 BATTERY POWERED SOAP DISPENSER. PROVIDE SUPPLY KIT AS REQUIRED. PROVIDE ADA-COMPLIANT P-TRAP WITH ADA COMPLIANT WRAPPING, AS REQUIRED.
L-3	LAVATORY WALL MOUNT 5-STATION ADA COMPLIANT	2"	2"	1/2"	1/2"	SLOAN MODEL #DSWD-85000 'WEIR' 5-STATION WALL-MOUNTED LAVATORY, DESIGNER WHITE CORIAN SOLID SURFACE, CONTINUOUS TROUGH BASIN, WITH ANGLED STAINLESS STEEL ENCLOSURE, ADA COMPLIANT. PROVIDE WITH MANUFACTURER'S APPROVED WALL SUPPORTS AND BACKING. SLOAN MODEL #EBF-85 SENSOR FAUCET (5 TOTAL), 0.35 GPM, BATTERY POWERED, 4" TRIM PLATE WITH BELOW DECK MIXING VALVE. ADA-COMPLIANT. PROVIDE WITH STRAINERS. PROVIDE SLOAN MODEL #ESD-800 BATTERY POWERED SOAP DISPENSER (5 TOTAL). PROVIDE SUPPLY KITS AS REQUIRED. PROVIDE ADA-COMPLIANT P-TRAPS.
MS-1	MOP SINK	3"	2"	3/4"	3/4"	FIAT MODEL #MSB-2424 MOP SINK, 24"x24"x10", WITH INTEGRAL STAINLESS STEEL DRAIN BODY. FIAT MODEL #830-AA SERVICE FAUCET, CHROME PLATED, WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT. FIAT MODEL #832-AA HOSE AND HOSE BRACKET. FIAT MODEL #889-CC MOP HANGER. FIAT MODEL #MSG-2424 STAINLESS STEEL WALL GUARD.
RPZ-1	REDUCED PRESSURE ZONE BACKFLOW PREVENTION DEVICE	–	–	3"	–	WATTS MODEL #LF009-QT REDUCED PRESSURE ZONE ASSEMBLY, LEAD FREE, 3", WITH QUARTER-TURN BALL VALVES, WITH FLOOD SENSOR ON RELIEF VALVE AND WITH AIR GAP FITTING.
RPZ-2	REDUCED PRESSURE ZONE BACKFLOW PREVENTION DEVICE	–	–	2"	–	WATTS MODEL #LF009-QT REDUCED PRESSURE ZONE ASSEMBLY, LEAD FREE, 2", WITH QUARTER-TURN BALL VALVES, WITH FLOOD SENSOR ON RELIEF VALVE AND WITH AIR GAP FITTING.
S-1	3-COMPARTMENT SINK	2"	–	3/4"	3/4"	ADVANCE TABCO MODEL #DTC-3-2424-144L, 24"x24"x14", 3-COMPARTMENT FABRICATED DISHTABLE SINK, 16 GAUGE TYPE STAINLESS STEEL. TILE EDGE BACKSPLASH. (3) 1-1/2" IPS WASTE DRAINS INCLUDED WITH DRAIN STOPS. PROVIDE ADVANCE TABCO #DTA-81 SUPPORT LEG AND INSTALL AT END OF DISHTABLE IN LIEU OF ATTACHMENT TO DISHWASHER. COORDINATE INSTALLATION WITH MANUFACTURERS RECOMMENDATIONS AND PROVIDE ALL WELDING, FASTENERS, AND OTHER MATERIALS REQUIRED TO ATTACH SUPPORT LEG TO DISHTABLE. (2) ADVANCE TABCO MODEL #K-105 14" SWING SPOUT SPLASH MOUNT FAUCETS. 2.2 GPM AERATOR.
S-2	VEGGIE/PREP SINK	2"	–	3/4"	3/4"	ADVANCE TABCO MODEL #T9-1-24, REGALINE SERIES STAINLESS STEEL SINK, SINGLE COMPARTMENT, 16"x20"x12" DEEP DRAWN ONE-PIECE BOWL WITH INTEGRAL SPLASH. 1-1/2" IPS S/S BASKET DRAIN, CENTERED IN BOWL, WITH DRAIN STOP. ADVANCE TABCO MODEL #K-101 8" SWING SPOUT SPLASH MOUNT FAUCET, 1.5 GPM AERATOR.
S-3	KITCHEN HAND WASH SINK	2"	–	3/4"	3/4"	ADVANCE TABCO MODEL #7-PS-68, 10"x14"x5" ONE-PIECE DEEP DRAWN HAND WASH SINK, STAINLESS STEEL, WITH GALVANIZED OFFSET WALL MOUNTING BRACKETS. ADVANCE TABCO MODEL #K-59 4" O.C. SPLASH MOUNTED GOOSENECK FAUCET WITH WRIST HANDLES, 1.0 GPM AERATOR. STAINLESS STEEL, 3-1/2" BASKET DRAIN WITH 1-1/2" IPS.
TMV-1	THERMOSTATIC MIXING VALVE	–	–	1-1/4"	1-1/4"	POWERS MODEL #LFMM433 'HYDROGUARD' 1-1/4" THERMOSTATIC MIXING VALVE, LEAD FREE, VANDAL RESISTANT, WITH INTEGRAL CHECKS AND SCREEN, MINIMUM 0.5 GPM FLOW, 5PSI DROP AT 37.0 GPM.
UR-1	URINAL WALL MOUNT ADA COMPLAINT	2"	2"	1/2"	–	SLOAN MODEL #WEUS-1005.1001 URINAL AND FLUSHOMETER COMBO, WHITE VITREOUS CHINA, 0.5 GPF, TOP SPUD INLET, ADA COMPLIANT. PROVIDE SUPPLY KITS AND WALL CARRIER. COORDINATE INSTALLATION HEIGHTS WITH ARCHITECTURAL DOCUMENTS. INSTALL PER ADA COMPLIANCE WHERE REQUIRED.
WC-1	WATER CLOSET WALL MOUNT FLUSH VALVE	3"	2"	1-1/2"	–	SLOAN MODEL #WETS-2450.2003 WATER CLOSET AND FLUSHOMETER COMBO, WHITE VITREOUS CHINA, 1.28 GPF, ELONGATED BOWL, WALL MOUNTED, WALL OUTLET. BEMIS MODEL #1955CT ELONGATED PLASTIC TOILET SEAT, OPEN FRONT LESS COVER, WHITE. PROVIDE SUPPLY KITS, WALL CARRIER, AND ALL REQUIRED ACCESSORIES. INSTALL AT STANDARD HEIGHT.
WC-2	WATER CLOSET WALL MOUNT FLUSH VALVE ADA COMPLIANT	3"	2"	1-1/2"	–	SLOAN MODEL #WETS-2450.2003 WATER CLOSET AND FLUSHOMETER COMBO, WHITE VITREOUS CHINA, 1.28 GPF, ELONGATED BOWL, WALL MOUNTED, WALL OUTLET, ADA COMPLIANT. BEMIS MODEL #1955CT ELONGATED PLASTIC TOILET SEAT, OPEN FRONT LESS COVER, WHITE. PROVIDE SUPPLY KITS, WALL CARRIER, AND ALL REQUIRED ACCESSORIES. INSTALL AT ADA HEIGHT AND PER ADA COMPLIANCE.
WCO	WALL CLEANOUT	–	–	–	–	WATTS MODEL #CO-440-RD WALL CLEANOUT WITH TWO-PIECE EXPANDABLE CLEANOUT PLUG, STAINLESS STEEL ACCESS COVER, AND VANDAL PROOF STAINLESS STEEL SCREW.
WH-1	WALL HYDRANT	–	–	3/4"	–	WATTS MODEL # HY-725 NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX AND DOOR, CHROME PLATED HYDRANT FACE, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, BRONZE WALL CASING, AND LOOSE KEY.

NOTE:
REFER TO SPECIFICATIONS FOR LISTING OF ACCEPTABLE MANUFACTURERS AND FURTHER PRODUCT REQUIREMENTS.
MANUFACTURERS LISTED ABOVE WERE USED FOR BASIS OF DESIGN. REFER TO DRAWINGS FOR ADDITIONAL REQUIRED ITEMS.

ALTERNATE #3

HEAT TRACE SCHEDULE (HT)

UNIT No.	LOCATION	'RAYCHEM' MODEL No.	'RAYCHEM' CONTROLLER MODEL No.	SERVES	PIPING	SYSTEM TEMPERATURE (°F)	AMBIENT TEMPERATURE (°F)	POWER (V/Ph/Hz)	LENGTH (FT)	WATTS/ LINEAR FT	TOTAL KW	NOTES
HT-1	SOUTH END	5-XLE-2-CT	ECW-GF	DOMESTIC WATER	2"CW	40°F	0°F	208/1/60	27	8.0	0.216	1,2,3,4,5

NOTES:
1. PROVIDE AMBIENT AIR TEMPERATURE SENSOR.
2. PROVIDE ALL REQUIRED WIRING BETWEEN CONTROLLER, HEAT TRACING, AND SENSORS.
3. PROVIDE INTERCONNECTION TO BUILDING MANAGEMENT SYSTEM.
4. PROVIDE LOCKABLE COVER / ENCLOSURE FOR CONTROL PANEL.
5. PROVIDE FLUROPOLYMER COATING FOR CABLE.

SHOCK ABSORBER SCHEDULE

P.D.I. UNITS	FIXTURE UNITS	PIPE SIZE
A	1-11	1/2"
B	12-32	3/4"
C	33-60	1"
D	61-113	1-1/4"
E	114-154	1-1/2"
F	155-330	2"

PIPING INSULATION SCHEDULE

INSULATE THE FOLLOWING:

A. DOMESTIC HOT WATER, DOMESTIC COLD WATER, AND DOMESTIC HOT WATER RECIRCULATION PIPING

B. LAVATORY TRAP AND WATER SUPPLIES (ON HANDICAPPED INSTALLATION).

C. ROOF DRAINAGE (ROOF DRAIN & ALL HORIZONTAL STORM WATER) 1" THICK FIBERGLASS W/ PVC FITTING COVERS.

INSULATION PRODUCTS AND INSTALLATION SHALL COMPLY WITH ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

HOT WATER PIPING INSULATION SHALL BE PREFORMED, SNAP-ON FIBERGLASS INSULATION WITH PAINTABLE WHITE KRAFT OR ALUMINUM FOIL JACKET.

DOMESTIC COLD WATER AND ROOF DRAINAGE INSULATION SHALL BE SIMILAR TO HOT WATER WITH VAPOR BARRIER.

INSULATION THICKNESS SCHEDULE

SERVICES	CONDUCTIONS (BTU/IN/HR/°F)	INSULATION THICKNESS < 1"	1" TO < 1½"	1½" TO < 4"	4" TO < 8"
141-200°F	0.25-0.29	1.5	1.5	2.0	2.0
105-140°F	0.21-0.28	1.0	1.0	1.5	1.5
40-60°F	0.21-0.27	0.5	0.5	1.0	1.0
<40°F	0.20-0.26	0.5	1.0	1.0	1.0

LEGENDS AND ABBREVIATIONS

CW	CW	COLD WATER PIPING
HW	HW	HOT WATER PIPING
RHW	RHW	RECIRCULATING HOT WATER PIPING
SAN	SAN	SANITARY SEWER PIPING (BELOW FLOOR)
SAN	SAN	SANITARY SEWER PIPING (ABOVE FLOOR)
V	V	VENT PIPING
G	G	NATURAL GAS PIPING
G (UG)	G (UG)	NATURAL GAS PIPING (UNDERGROUND)
		FULL PORT VALVE
		CHECK VALVE
		GAS VALVE (AGA APPROVED)
		SOLENOID VALVE
		UNION
		STRAINER
		BALANCING VALVE
		BACKFLOW PREVENTER
M		WATER METER

		REMOVE PIPING TO THIS POINT
		CONNECT NEW PIPING TO EXISTING
WH		WALL HYDRANT (EXTERIOR)
HB		HOSE BIBB
SA		SHOCK ABSORBER (SIZE PER PDI)
VTR		VENT THROUGH ROOF
FCO		FLOOR CLEANOUT
WCO		WALL CLEANOUT
FD		FLOOR DRAIN
		CAP
		PUMP
TFA		TO FLOOR ABOVE
TFB		TO FLOOR BELOW
FFA		FROM FLOOR ABOVE
FFB		FROM FLOOR BELOW
EX.		EXISTING
TYP		TYPICAL
DN		DOWN

NOTE:
ALL LEGENDS AND ABBREVIATIONS MAY NOT BE USED ON DRAWINGS.

DIG SAFELY

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITY LOCATIONS AND PROVIDE ALL PROTECTIVE MEASURES FOR EXCAVATION AND UNDERGROUND UTILITY WORK.

CALL:
DIG SAFELY: 1-800-962-7962
A MINIMUM OF TWO (2) DAYS PRIOR TO COMMENCING WITH EXCAVATION.

GAS LOADS

EQUIPMENT	BTU/HR	GAS PRESSURE (WC)
B-1	2,500,000	3-14"
B-2	2,500,000	3-14"
DWH-1	150,000	4-14"
DWH-2	150,000	4-14"
CONVECTION OVEN	108,000	4" MIN.
PIZZA OVEN	30,000	4" MIN.
RANGE	210,000	4" MIN.
GRIDDLE	90,000	6" MIN.
FRYER	122,000	7-9"
GENERATOR	3,620,000	7-11"
TOTAL	9,450,000	7-9"

EXPANSION TANK SCHEDULE

UNIT NO.	LOCATION	'THRUSH CO' MODEL NO.	TANK TYPE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	FLUID TYPE	MIN. TANK PRESSURE (PSIG)	DESIGN TANK PRESSURE (PSIG)	NOTES
ET-1	MECH ROOM	TTA-5	FIXED DIAPHRAGM	3.5	2.3	HOT WATER	30.0	60.0	1,2
TT-1	MECH ROOM	FXT-403	FIXED DIAPHRAGM	34.0	–	COLD WATER	30.0	60.0	1,2

NOTES:
1. PROVIDE STEEL CONSTRUCTION WITH RED FINISH.
2. PROVIDE WITH HEAVY DUTY BUTYL BLADDER, NSF 61 LISTED.

DOMESTIC WATER HEATER

UNIT NO.	LOCATION	'LOCHINVAR' MODEL NO.	GAS INPUT (BTU/HR)	THERMAL EFFICIENCY	STORAGE (GALLONS)	RECOVERY @ 100°F RISE (GPH)	STORED WATER TEMPERATURE (°F)	ENTERING WATER TEMPERATURE (°F)	NOTES
DWH-1	MECH. ROOM	SWR150N	150,000	96%	90	175	140	40	1,2,3,4,5,6,7
DWH-2	MECH. ROOM	SWR150N	150,000	96%	90	175	140	40	1,2,3,4,5,6,7

NOTES:
1. PROVIDE PVC INTAKE VENT AND POLYPROPYLENE FLUE.
2. PROVIDE NSF 61 COMPLIANT ANNEX G, LEAD FREE.
3. PROVIDE 4"WC MINIMUM TO 14"WC MAXIMUM GAS PRESSURE.
4. PROVIDE CONDENSATE NEUTRALIZATION KITS.
5. FURNISH WITH FIELD INSTALLED DISCONNECT SWITCH.
6. PROVIDE 6" THICK HOUSE KEEPING PAD.

PUMP SCHEDULE

UNIT No.	TYPE	LOCATION	MANUFACTURER AND PUMP SERIES	PUMP MODEL NO.	CONSTRUCTION MATERIAL	FLOW (GPM)	PRESSURE (FT. H20)	MOTOR (HP)	POWER (V/PH/HZ)	WATTS	FULL LOAD AMPS	NOTES
CP-1	INLINE RECIRCULATION PUMP	MECH ROOM	GRUNDFOS 'MAGNA3'	32-60 GF	STAINLESS STEEL	6.0	15.0	–	120/1/60	103	.91	1,2
CP-2	INLINE RECIRCULATION PUMP	MECH ROOM	GRUNDFOS 'MAGNA1'	32-60 GF N	STAINLESS STEEL	2.0	11.0	–	120/1/60	107	1.01	1,2
BP-1	DUPLEX BOOSTER PUMP	MECH ROOM	GRUNDFOS 'HYDRO'	MULTI-E 2CRE 20-3	CAST IRON	120.0	92.4	7.5	460/3/60	–	–	3,4,5,6,7,8

NOTES:
1. PROVIDE 120V AQUASTAT AND TIMER.
2. FURNISH WITH FIELD INSTALLED DISCONNECT SWITCH.
3. PROVIDE BOOSTER PUMP SYSTEM WITH EXPANSION TANK, 'THRUSH CO.' MODEL # FXT-403 35 GALLON TANK OR SIMILAR.
4. PROVIDE DUPLEX PUMP SYSTEM (1 ACTIVE + 1 STANDBY).
5. PROVIDE FACTORY INSTALLED VFD AND CONTROLLER.
6. PROVIDE MANUFACTURERS CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH AND MOUNT TO BOOSTER PUMP SKID PACKAGE.
7. PROVIDE NSF 61 / NSF 372 APPROVED BOOSTER PUMP FOR LOW-LEAD CONSTRUCTION.
8. PROVIDE RUBBER VIBRATION DAMPERS BETWEEN EACH PUMP AND BASEFRAME.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

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No. REVISIONS DATE

STATE OF NEW YORK
DANTE G. IACO
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094459

EXPIRATION DATE: 08/31/2029

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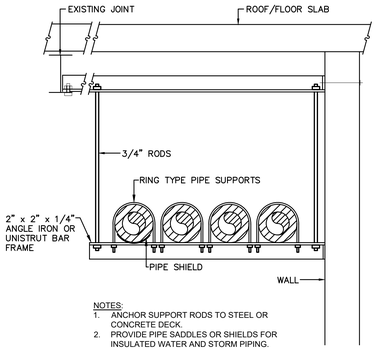
DRAWING TITLE:

PLUMBING LEGENDS AND SCHEDULES

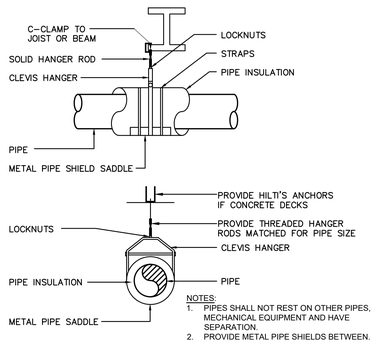
DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
P-001



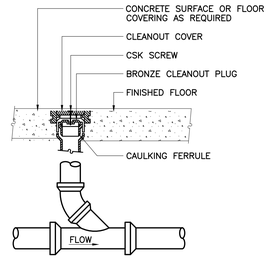
NOTES:
1. ANCHOR SUPPORT RODS TO STEEL OR CONCRETE DECK.
2. PROVIDE PIPE SADDLES OR SHIELDS FOR INSULATED WATER AND STORM PIPING.

1 PIPE SUPPORT DETAIL
SCALE: N.T.S.

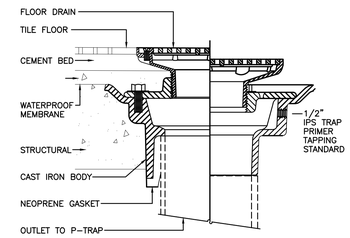


NOTES:
1. PIPES SHALL NOT REST ON OTHER PIPES, MECHANICAL EQUIPMENT AND HAVE SEPARATION.
2. PROVIDE METAL PIPE SHIELDS BETWEEN.

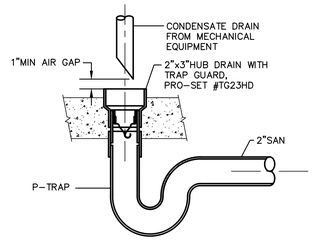
2 SINGLE PIPE SUPPORT DETAIL
SCALE: N.T.S.



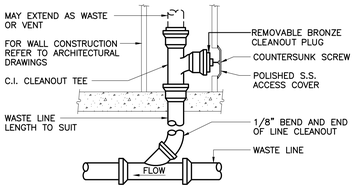
3 FLOOR CLEANOUT
SCALE: NTS



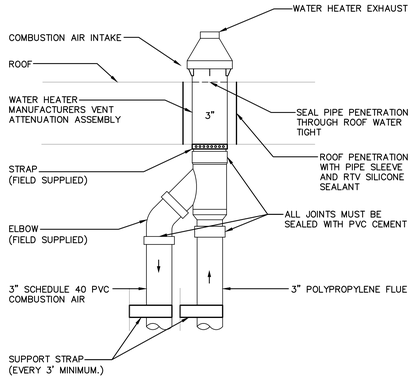
4 FLOOR DRAIN DETAIL
SCALE: NONE



5 TRAP GUARD DETAIL
SCALE: N.T.S.

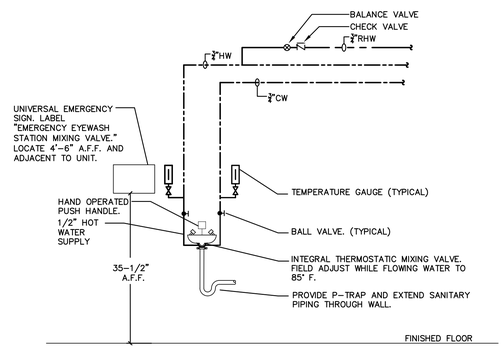


6 WALL CLEANOUT DETAIL
SCALE: N.T.S.

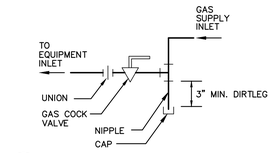


NOTE:
1. STRAP MUST BE FIELD INSTALLED TO PREVENT MOVEMENT OF VENT TERMINAL IN ROOF.
2. OPERATE HEATER THROUGH ONE CYCLE TO ENSURE COMBUSTION-AIR AND VENT PIPES ARE PROPERLY CONNECTED AND SEALED TO CONCENTRIC VENT TERMINATION CONNECTIONS.

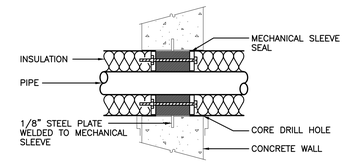
8 VERTICAL CONCENTRIC VENT KIT
SCALE: NOT TO SCALE



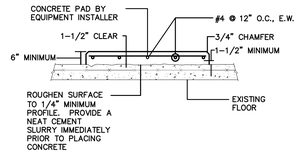
10 EMERGENCY EYEWASH DETAIL
SCALE: N.T.S.



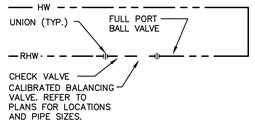
11 GAS CONNECTION DETAIL
SCALE: N.T.S.



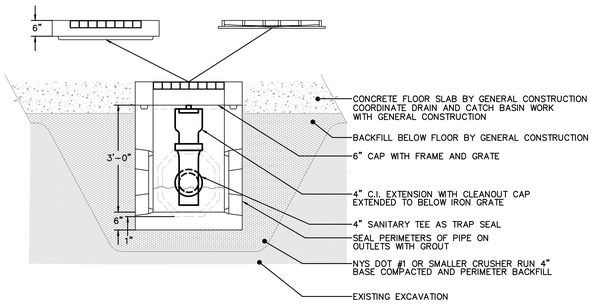
12 PIPE SLEEVE DETAIL
SCALE: N.T.S.

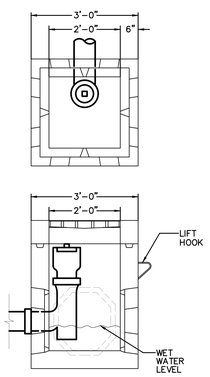


7 HOUSEKEEPING PAD DETAIL
SCALE: N.T.S.

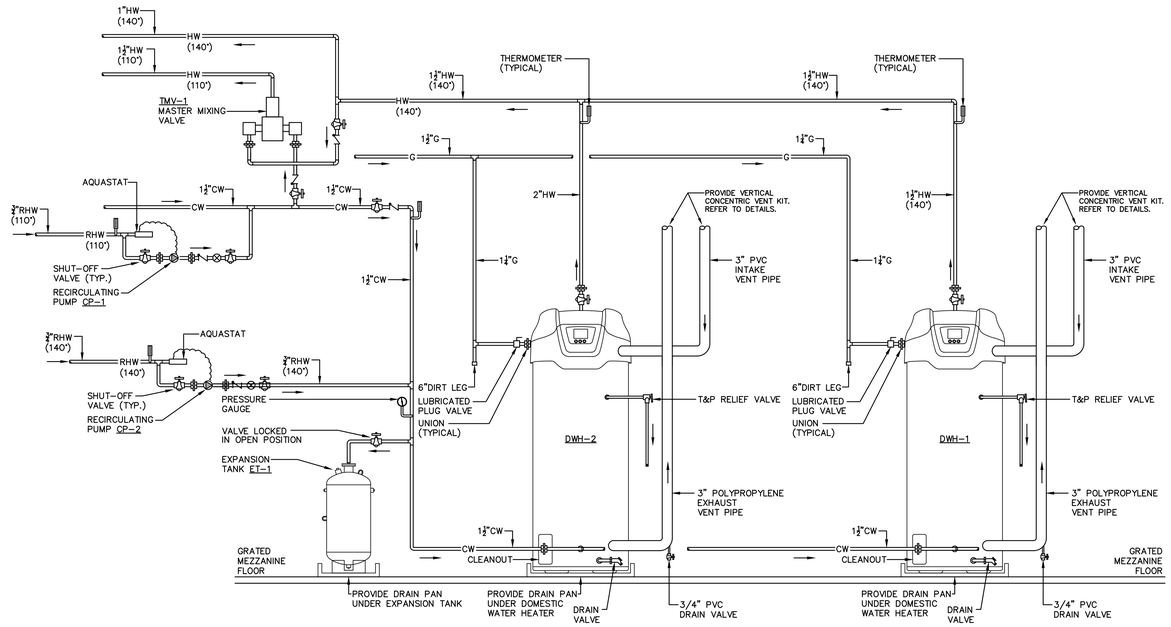


9 RETURN HOT WATER DETAIL
SCALE: N.T.S.





13 CATCH BASIN DETAIL
SCALE: N.T.S.



NOTES:
1. PROVIDE PROPER SUPPORTS FOR RECIRCULATING PUMPS, PIPING, AND EXPANSION TANK.
2. PROVIDE INTAKE AND FLUE PIPING UP THROUGH ROOF ABOVE. PROVIDE MANUFACTURERS VERTICAL CONCENTRIC VENT KIT.
3. PROVIDE DRAIN PANS UNDER DOMESTIC WATER HEATERS.
4. INSTALL WATER HEATERS AND EXPANSION TANK DIRECTLY ON GRATED MEZZANINE FLOOR.
5. EXTEND DRAIN PIPING DOWN TO FLOOR DRAINS ON FLOOR BELOW. AVOID ROUTING DRAIN PIPING OVER ELECTRICAL EQUIPMENT AND PANELS.
6. PROVIDE 12" MINIMUM SEPARATION BETWEEN VERTICAL CONCENTRIC VENT KITS. REFER TO CONCENTRIC VENT DETAIL.

14 DOMESTIC WATER HEATERS PIPING SCHEMATIC
SCALE: N.T.S.

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No.	REVISIONS	DATE

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EXPIRATION DATE: 08/31/2029

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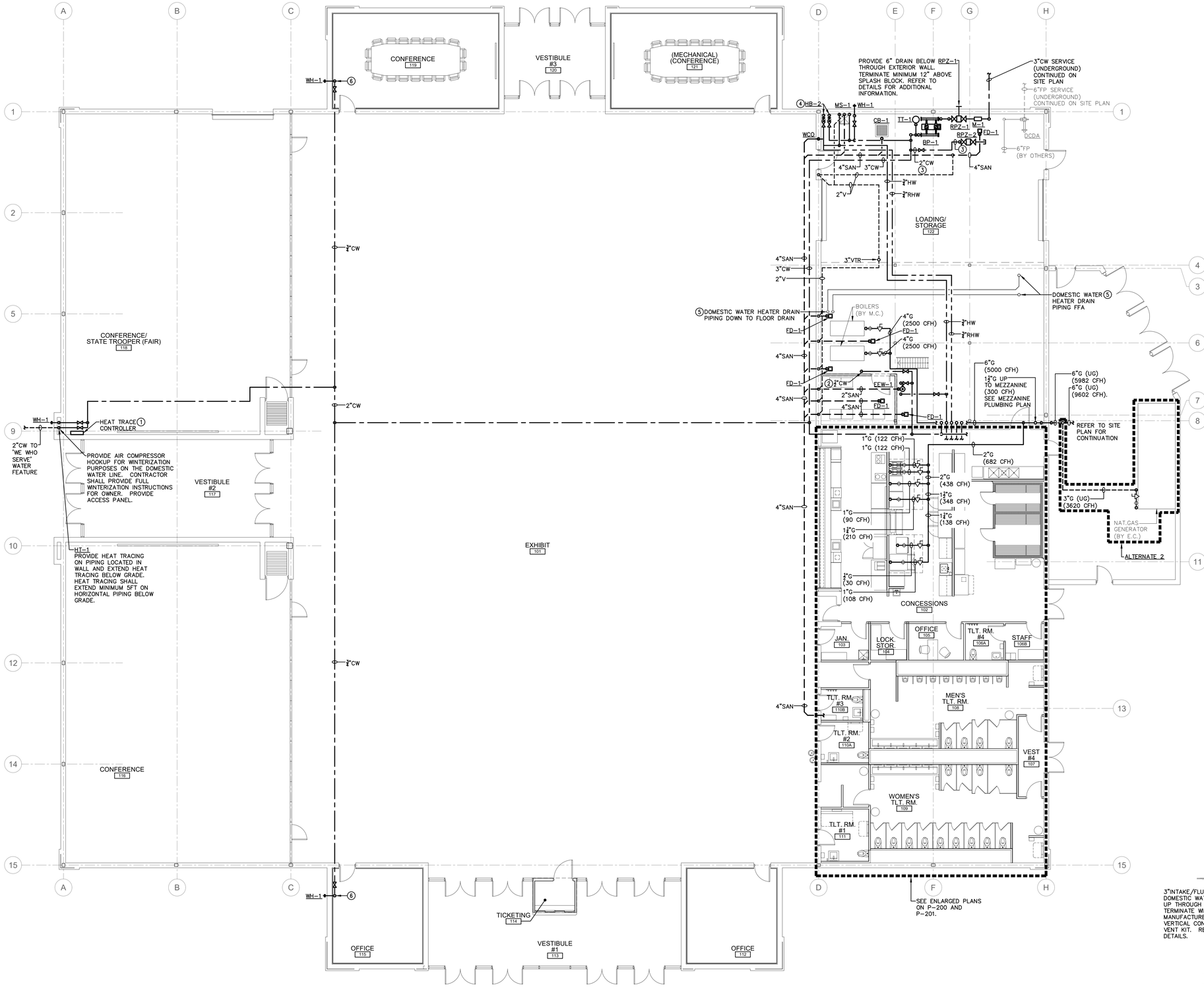
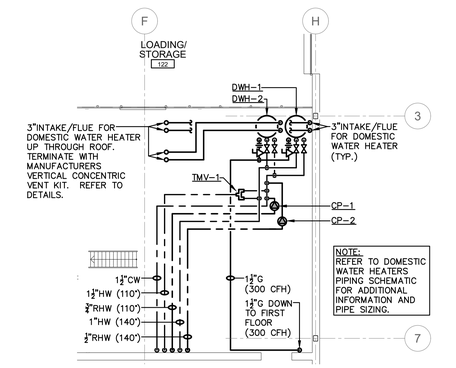
DRAWING TITLE:

PLUMBING DETAILS

DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	P-002
DRAWN BY: MRS	
CHECKED BY: DGI	
PROJECT No: 23-006	



1 OVERALL PLUMBING PLAN
SCALE: 1/8" = 1'-0"



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

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

B. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR IS TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION AND MAKE SUCH CHANGES IN PIPING, DUCTWORK, EQUIPMENT LOCATIONS, ETC. AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. COORDINATE ALL CHANGES WITH OTHER TRADES AND ARCHITECT/ENGINEER.

C. PROVIDE ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.

D. INSTALL ALL PIPING, DUCTWORK, EQUIPMENT, ETC. TO AVOID INTERFERENCE WITH THE OPERATION AND SERVICING OF ALL EQUIPMENT. IN GENERAL, DO NOT INSTALL ANYTHING ABOVE OR WITHIN 3 FT. IN FRONT OF ELECTRICAL GEAR.

E. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING FINISHES ASSOCIATED IN AREAS NOT IN CONTRACT.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING PIPE ROUTING IN FIELD PRIOR TO DEMOLITION AND INSTALLATIONS.

G. PROVIDE FIRE STOPPING FOR ALL RATED FLOOR AND WALL PENETRATIONS.

H. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROOF WARRANTIES.

I. TERMINATE ALL NEW ROOF VENTS A MINIMUM OF 3' ABOVE ROOF MEMBRANE.

J. CONTRACTOR SHALL PERFORM PRE-DEMOLITION TESTING ADJUSTING AND BALANCING OF ALL EXISTING MECHANICAL EQUIPMENT INCLUDING EQUIPMENT NOTED FOR REMOVAL. PROVIDE FLOW CHARACTERISTICS FOR ALL HYDRONIC COMPONENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE PRE-DEMOLITION TAB REPORT TO ENGINEER FOR REVIEW PRIOR TO DEMOLITION.

K. ALL REFRIGERANT SUCTION AND LIQUID (RS/RL) PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

L. REMOVE, STORE, AND REINSTALL CEILING TILE AND GRID TO ALLOW FOR INSTALLATION OF DUCTWORK, PIPING, AND EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ALL DAMAGED OR SOILED CEILING TILES AND GRID.

M. PROVIDE ALL CORE DRILLS AND SAW CUTS AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL LOCATIONS IN FIELD PRIOR TO INSTALLATION. PROVIDE FIRE STOPPING AND DAMPERS AT ALL FLOOR PENETRATIONS AS REQUIRED.

N. PROVIDE ALL TEMPORARY DISCONNECTS AND RECONNECTS AS REQUIRED FOR PHASING. COORDINATE WITH PHASING PLAN. PROVIDE AS-BUILT DOCUMENTS OF EXISTING CONDITIONS, REMOVALS, AND INSTALLATION OF NEW EQUIPMENT, DUCTWORK, AND PIPING. PROVIDE PRE-DEMOLITION TESTING, ADJUSTING, AND BALANCING OF EXISTING PIPING AND DUCT SYSTEMS, AND RE-BALANCE TO MATCH EXISTING AIRFLOWS AND GPMS UPON COMPLETION OF WORK. FIELD VERIFY ALL LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK.

DRAWING NOTES ⓘ:

1. PROVIDE HEAT TRACE CONTROLLER AND INSTALL ABOVE DROP CEILING. REFER TO HEAT TRACE SCHEDULE FOR HEAT TRACE CIRCUITS.
2. PROVIDE 1/2" DOMESTIC COLD WATER TO BOILER DRAIN LINES. REFER TO HVAC BOILER DETAILS FOR ADDITIONAL INFORMATION.
3. PROVIDE 2" DOMESTIC COLD WATER PIPING FOR FUTURE IRRIGATION CONNECTION.
4. PROVIDE 3/4" DOMESTIC HOT WATER PIPING TO HOSE BIBB.
5. PROVIDE DRAIN PIPING FROM DOMESTIC WATER HEATERS AND DRAIN PAN. EXTEND TO FLOOR DRAIN ON FIRST FLOOR. AVOID ROUTING DRAIN PIPING OVER ELECTRICAL EQUIPMENT. REFER TO DOMESTIC WATER HEATER PIPING SCHEMATIC.
6. LOCATE 3/4" DOMESTIC COLD WATER PIPE RISER DOWN TO WALL HYDRANT IN FURRED OUT WALL. COORDINATE FINAL LOCATION WITH ARCHITECT.

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No. REVISIONS DATE

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EXPIRATION DATE: 08/31/2029

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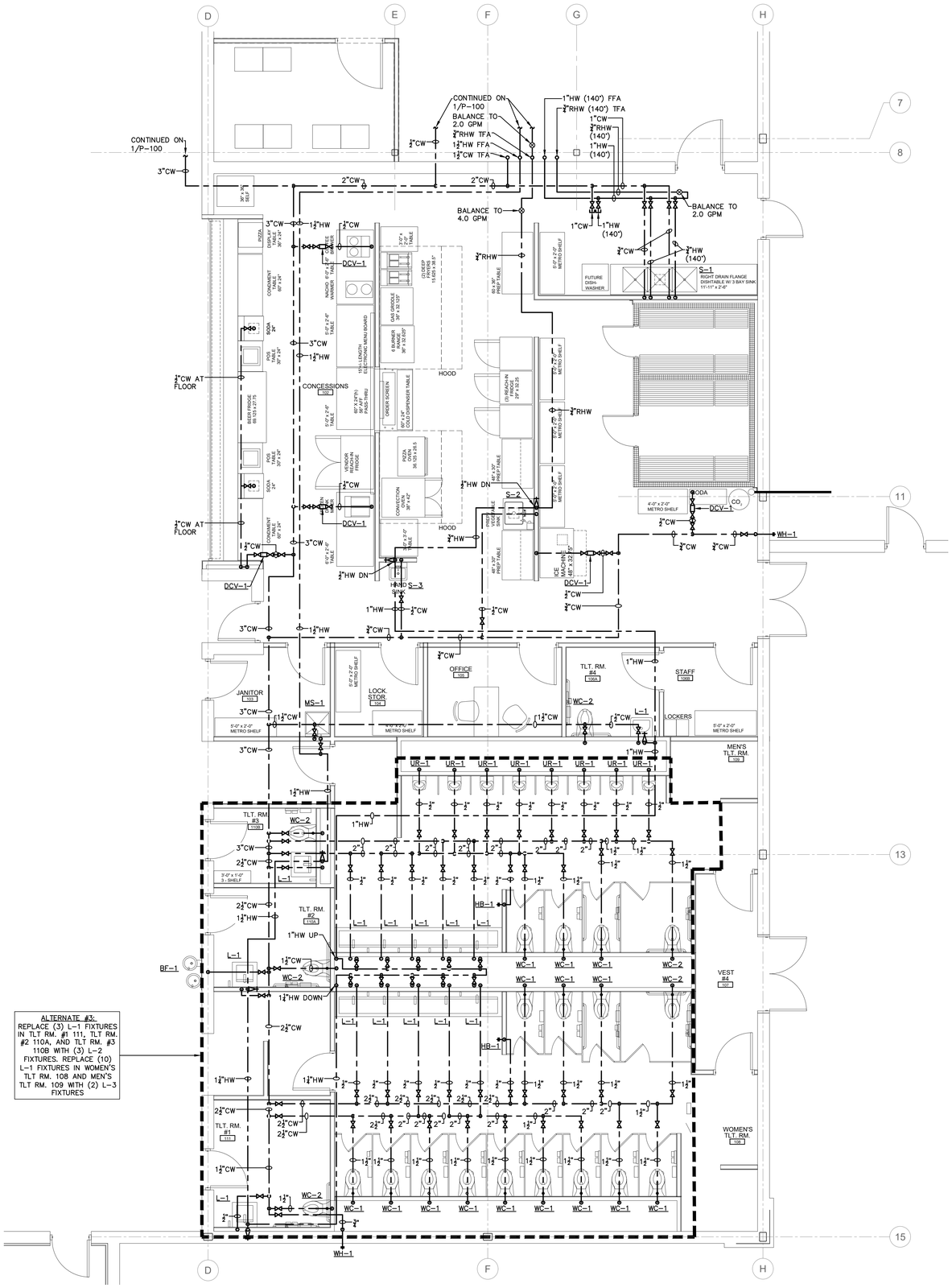
DRAWING TITLE:

OVERALL PLUMBING PLANS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
P-100



1 PLUMBING ENLARGED DOMESTIC WATER PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

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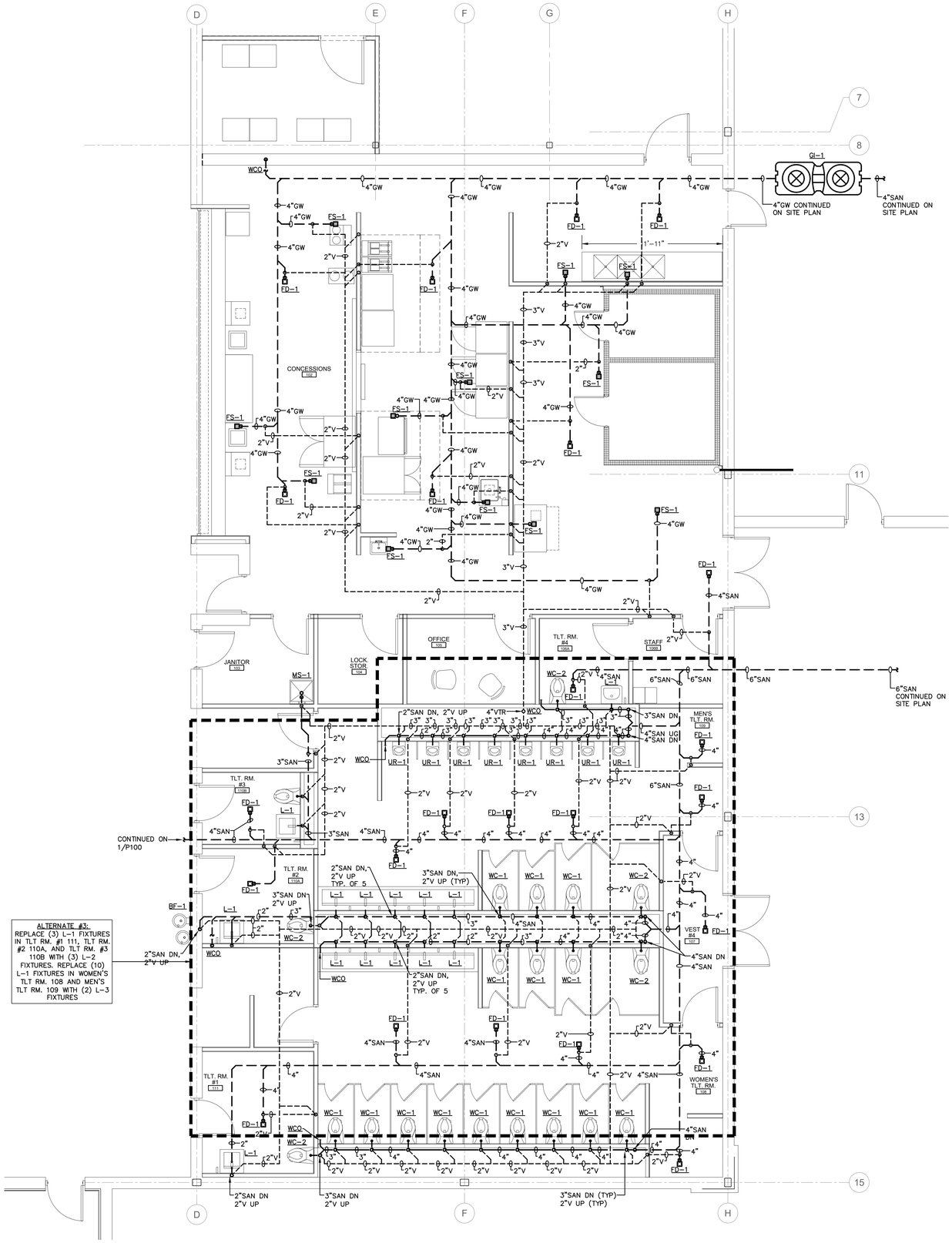
DRAWING TITLE:

ENLARGED DOMESTIC WATER PLUMBING PLANS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
P-200



1 PLUMBING ENLARGED SANIATARY AND VENT PLAN
SCALE: 1/4" = 1'-0"

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DRAWING TITLE:

ENLARGED SANITARY AND VENT PLUMBING PLANS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
P-201

AIR HANDLING UNIT SCHEDULE (AHU) - HOT WATER HEATING & DX COOLING

UNIT No.	SERVES	'SOLUTIONAIR' MODEL No.	ASSOCIATED EQUIPMENT	CONFIG.	SUPPLY AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	SA ESP ("WC)	SA TSP ("WC)	RA ESP ("WC)	RA TSP ("WC)	DX COOLING COIL					HOT GAS REHEAT	HOT WATER HEATING COIL (40% P.G.)							ENERGY RECOVERY - SUMMER					ENERGY RECOVERY - WINTER					ELECTRICAL - UNIT				ELECTRICAL - OUTLETS				WEIGHT (LBS)	NOTES
											TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENTERING AIR TEMP DB/WB (°F)	LEAVING AIR TEMP DB/WB (°F)	REFRIG.	LEAVING AIR TEMP DB (°F)	CAPACITY (MBH)	ENTERING AIR TEMP DB (°F)	LEAVING AIR TEMP DB (°F)	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	GPM	WATER PRESSURE DROP (FT H2O)	AIRFLOW (CFM)	ENTERING AIR TEMP DB (°F)	ENTERING AIR HUMIDITY (%)	LEAVING AIR TEMP DB (°F)	LEAVING AIR HUMIDITY (%)	AIRFLOW (CFM)	ENTERING AIR TEMP DB (°F)	ENTERING AIR HUMIDITY (%)	LEAVING AIR TEMP DB (°F)	LEAVING AIR HUMIDITY (%)	POWER (V/Ph/Hz)	FLA	MCA	MOP (A)	POWER (V/Ph/Hz)	FLA	MCA	MOP (A)		
AHU-1	ASSEMBLY SPACE	AW-A-1-27	ACCU-1	VERTICAL	20,000	6,640	1.70	5.10	0.75	2.35	528.0	447.3	77.0 / 64.0	55.4 / 55.1	R-454B	70.0	726.2	63.4	100.0	160.0	140.0	77.9	19.5	6640	95.0	39.8%	80.3	48.4%	6640	2.0	100.0%	52.0	51.3%	460/3/60	45.9	50.5	60	120/1/60	-	-	20	11,200	1,2,3,4,6
AHU-2	WEST CONF ROOMS	AW-A-1-12	ACCU-2	VERTICAL	3,200	480	1.50	3.17	0.5	-	106.0	77.5	80.0 / 67.0	58.6 / 57.0	R-454B	70.0	150.0	57.8	100.9	160.0	140.0	16.1	11.2	NO ENERGY RECOVERY THIS UNIT										460/3/60	4.3	5.4	15	120/1/60	-	-	20	2700	1,2,3,5,7

NOTES:
1. FURNISH WITH FIELD INSTALLED ELECTRICAL DISCONNECT SWITCH FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
2. PROVIDE 4" HIGH EQUIPMENT RAILS FOR MOUNTING MAKEUP AIR UNIT INDOORS. MOUNT AND SECURE RAILS TO MEZZANINE FLOOR AND MOUNT UNIT TO RAILS. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DOCUMENTS.
3. PROVIDE FIELD INSTALLED CONTROLS.
4. PROVIDE FACTORY INSTALLED VARIABLE FREQUENCY DRIVE ON SUPPLY FANS AND RETURN FAN.
5. PROVIDE FACTORY INSTALLED VARIABLE FREQUENCY DRIVE ON SUPPLY FAN.
6. PROVIDE MERV 8 - 2" THICK PLEATED PRE-FILTERS AND MERV 13 - 2" THICK FINAL FILTERS. PROVIDE (2) SETS OF EXTRA FILTERS.
7. PROVIDE MERV 8 - 2" THICK PLEATED FILTERS. PROVIDE (2) SETS OF EXTRA FILTERS.

HEAT PUMP SCHEDULE (HP) - WITH SUPPLEMENTAL ELECTRIC HEAT

UNIT No.	SERVES	INDOOR UNIT												OUTDOOR UNIT											NOTES
		'SAMSUNG' MODEL No.	TYPE	ESP ("WC)	REFRIG.	NOMINAL TONS	COOLING CAPACITY RANGE (MBH)	HEATING CAPACITY RANGE (MBH)	ELECTRIC HEATER	ELECTRICAL			WEIGHT (LBS)	'SAMSUNG' MODEL No.	LOCATION	OPERATING TEMP RANGE COOLING MODE (°F)	OPERATING TEMP RANGE HEATING MODE (°F)	SEER2	EER2	HSPF2	POWER (V/Ph/Hz)	MCA	MOP (A)	
									'SAMSUNG' MODEL No.	KW	POWER	MCA	MOP (A)											
HP-2	EAST OFFICES	AC018DNZDCG/AA	DUCTED	0.8	R-32	1.5	5.5 - 23.0	5.5 - 30.5	VHK-205C	5.0	208/1/60	23	25	130	AC018DXSCCG/AA	ON GRADE	23.0 - 122.0	-13.0 - 75.0	18.0	12.0	8.5	208/1/60	22.7	25	1,2,3,4,5,6,7

NOTES:
1. FIELD INSTALLED ELECTRICAL DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AT BOTH INDOOR UNIT AND OUTDOOR UNIT. COORDINATE INSTALLATION LOCATION WITH ELECTRICAL CONTRACTOR.
2. PROVIDE REFRIGERANT LINESETS SIZED BY MANUFACTURER. PROVIDE REFRIGERANT TO FULLY CHARGE SYSTEM. REFRIGERANT SHALL MEET 2025 NYS REQUIREMENTS.
3. PROVIDE WITH MANUFACTURER'S SUPPLIED WIND BAFFLE KIT (LOW AMBIENT COOLING KIT).
4. PROVIDE 18" HIGH EQUIPMENT RAILS AND 6" HIGH EQUIPMENT PAD. MOUNT OUTDOOR UNIT TO EQUIPMENT RAILS AND MOUNT EQUIPMENT RAILS TO EQUIPMENT PAD.
5. PROVIDE 14 GA. COMMUNICATION LINE BETWEEN INDOOR AND OUTDOOR UNIT.
6. PROVIDE WIRELESS CONTROLLER, RECEIVER, AND THERMOSTAT ADAPTER.
7. PROVIDE WITH 5 KW SUPPLEMENTARY ELECTRIC HEAT KIT - SAMSUNG MODEL 'VHK-205C'. INSTALL INSIDE INDOOR UNIT.

HEAT PUMP SCHEDULE (HP) - COOLING ONLY

UNIT No.	SERVES	INDOOR UNIT							OUTDOOR UNIT										NOTES
		'HAIER' MODEL No.	TYPE	REFRIG.	NOMINAL TONS	COOLING CAPACITY RANGE (MBH)	HEATING CAPACITY RANGE (MBH)	WEIGHT (LBS)	'HAIER' MODEL No.	LOCATION	OPERATING TEMP RANGE COOLING MODE (°F)	OPERATING TEMP RANGE HEATING MODE (°F)	SEER2	EER2	HSPF2	POWER (V/Ph/Hz)	MCA	MOP (A)	
HP-1	IT CLOSET	QS12WB2BEA	WALL MOUNT	R-454B	1.0	3.4 - 13.0	3.2 - 14.0	25	1Q12FF2BEA	ON GRADE	-40.0 - 115.0	-15.0 - 75.0	21.0	12.0	9.5	208/1/60	9.0	15	1,2,3,4,5,6

NOTES:
1. FIELD INSTALLED ELECTRICAL DISCONNECT SWITCH SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AT OUTDOOR UNIT. COORDINATE INSTALLATION LOCATION WITH ELECTRICAL CONTRACTOR.
2. PROVIDE REFRIGERANT LINESETS SIZED BY MANUFACTURER. PROVIDE R-454B REFRIGERANT TO FULLY CHARGE SYSTEM. REFRIGERANT SHALL MEET 2025 NYS REQUIREMENTS.
3. PROVIDE WITH MANUFACTURER'S SUPPLIED WIND BAFFLE KIT (LOW AMBIENT COOLING KIT).
4. PROVIDE 18" HIGH EQUIPMENT RAILS AND 6" HIGH EQUIPMENT PAD. MOUNT OUTDOOR UNIT TO EQUIPMENT RAILS AND MOUNT EQUIPMENT RAILS TO EQUIPMENT PAD.
5. INDOOR UNIT POWERED FROM OUTDOOR UNIT. PROVIDE 14 GA. COMMUNICATION LINE.
6. PROVIDE ADVANCED WIRED CONTROLLER AND LOCAL CONTROLS.

KITCHEN MAKEUP AIR UNIT WITH HOT WATER HEATING COIL SCHEDULE (KMAU)

UNIT No.	SERVES	'GREENHECK' MODEL No.	SUPPLY AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	ESP (SA) ("WC)	TSP (SA) ("WC)	HOT WATER HEATING COIL								POWER (V/Ph/Hz)	MCA	MOP (A)	WEIGHT (LBS)	NOTES
							CAPACITY (MBH)	SYSTEM MEDIA	ENTERING AIR TEMP DB (°F)	LEAVING AIR TEMP DB (°F)	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	GPM	PRESSURE DROP (FT H2O)					
KMAU-1	KH-1, KH-2	MSX-P116-H22-MF	3376	3376	0.50	0.75	250.4	40% P.G.	0.0	68.5	160.0	120.0	13.5	0.16	460/3/60	4.0	15	1100	1,2,3,4,5,6,7,8,9,10

NOTES:
1. PROVIDE WITH FACTORY INSTALLED DISCONNECT SWITCH.
2. PROVIDE 4" HIGH EQUIPMENT RAILS FOR MOUNTING MAKEUP AIR UNIT INDOORS. MOUNT AND SECURE RAILS TO MEZZANINE FLOOR AND MOUNT UNIT TO RAILS. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DOCUMENTS.
3. PROVIDE FIELD INSTALLED CONTROLS.
4. PROVIDE FACTORY INSTALLED VARIABLE FREQUENCY DRIVE ON SUPPLY FAN.
5. PROVIDE MERV 8 - 2" THICK PLEATED FILTERS. PROVIDE (2) SETS OF EXTRA FILTERS.

KITCHEN HOOD SCHEDULE (KH)

UNIT No.	'GREENHECK' MODEL NO.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	EXHAUST PLENUM			SUPPLY PLENUM				HOOD CONSTRUCTION	LIGHTS		FIRE SUPPRESSION SYSTEM	WEIGHT (LBS)	NOTES
					EXHAUST AIRFLOW (CFM)	EXHAUST SP ("WC)	EXHAUST COLLAR SIZE (IN x IN)	SUPPLY AIRFLOW (CFM)	SUPPLY SP ("WC)	SUPPLY COLLAR SIZE (IN x IN)	SUPPLY COLLAR QUANTITY		QTY	TYPE			
KH-1	GHEW-120.00-S	120.0	60.0	24.0	1970	0.43	19x9	1576	0.01	30x12	3	TYPE 1, SINGLE WALL	6	INCANDESCENT / CFL	AMEREX KP WET CHEMICAL SYSTEM, 7.5 GALLON	450	1,2,3,4,5,6,7,8
KH-2	GHEW-90.00-S	120.0	60.0	24.0	2250	0.56	22x9	1800	0.03	22x12	3	TYPE 1, SINGLE WALL	4	INCANDESCENT / CFL		400	1,2,3,4,5,6,7,8

NOTES:
1. THE ARCHITECT/OWNER SHALL BE RESPONSIBLE FOR ENSURING THAT HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS ARE IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.
2. PROVIDE ALL REQUIRED HANGERS, ANCHORS, ETC. REQUIRED FOR A COMPLETE, SECURE INSTALLATION.
3. KITCHEN HOODS SHALL BE SERVED BY A SINGLE WALL-MOUNTED FIRE SUPPRESSION SYSTEMS. BOTH HOODS SHALL BE PRE-PIPED. PROVIDE WALL-MOUNTED MANUAL PULL STATION.
4. PROVIDE GAS SHUT OFF VALVE AND INTEGRATE INTO HOOD FIRE SUPPRESSION SYSTEMS.
5. PROVIDE UL LISTED HOODS, INCLUDING UL 710.
6. PROVIDE 430 STAINLESS STEEL HOODS.
7. PROVIDE HOOD WITH STAINLESS STEEL BAFFLE FILTERS.
8. PROVIDE HOOD WITH EXHAUST AIR BALANCING BAFFLE FOR SYSTEMS WITH MULTIPLE COLLARS/HOODS.

KITCHEN EXHAUST FAN SCHEDULE (KEF)

UNIT No.	SERVES	'GREENHECK' MODEL No.	TYPE	CFM	S.P. (IN. WG)	DRIVE	ELECTRICAL						NOTES
							POWER	HP	FLA	MCA	MOP (A)	FAN RPM	
KEF-1	KH-1, KH-2	CUE-200-VG	UPBLAST, ROOF-MOUNT	4220	1.20	DIRECT	460/3/60	2.0	4.7	6.0	15	1129	1,2,3,4,5,6,7

NOTES:
1. PROVIDE FACTORY INSTALLED STARTER AND NEMA 3R DISCONNECT SWITCH.
2. PROVIDE FIELD INSTALLED CONTROLS AND ALL ASSOCIATED CONTROL RELAYS.
3. INTERLOCK KITCHEN EXHAUST FAN INTO KITCHEN HOOD OPERATION.
4. PROVIDE 12 GA GALVANIZED HINGED, VENTED BASE FOR CURB. STANDARD HINGE ATTACHED TO CURB. PROVIDE CURB SEAL.
5. PROVIDE GREASE SPOUT WELDED TO HOUSING.
6. PROVIDE 20" HIGH WIND RESISTANT DOUBLE WALL INSULATED CURB.
7. FAN SHALL BE COMPLETE WITH ALUMINUM HOUSING.

LOUVER SCHEDULE (L)

UNIT No.	SERVES	'GREENHECK' MODEL No.	TYPE	SIZE	FREE AREA (SQ. FT.)	FREE AREA (%)	VOLUME OF AIR (CFM)	PD ("W.C.)	FREE AREA VELOCITY (FPM)	NOTES
L-1	EF-1 (EA)	EDJ-401	EXHAUST	48x54	9.66	54.2	1550	0.004	160	1,2,3,4
L-2	KMAU-1 (OA)	EDJ-401	INTAKE	48x54	9.66	54.2	3376	0.020	349	1,2,3,4
L-3	AHU-2 (OA)	EDJ-401	INTAKE	48x54	9.66	54.2	3200	0.018	331	1,2,3,4
L-4	AHU-1 (OA)	EDJ-401	INTAKE	48x54	9.66	54.2	6670	0.078	690	1,2,3,4
L-5	AHU-1 (OA)	EDJ-401	INTAKE	48x54	9.66	54.2	6670	0.078	690	1,2,3,4
L-6	AHU-1 (OA)	EDJ-401	INTAKE	48x54	9.66	54.2	6670	0.078	690	1,2,3,4
L-7	AHU-1 (EA)	EDJ-401	EXHAUST	44x54	8.81	53.9	7735	0.116	878	1,2,3,4
L-8	AHU-1 (EA)	EDJ-401	EXHAUST	44x54	8.81	53.9	7735	0.116	878	1,2,3,4
L-9	AHU-1 (EA)	EDJ-401	EXHAUST	44x54	8.81	53.9	7735	0.116	878	1,2,3,4
L-10	AHU-1 (RA)	EDJ-401	EXHAUST	144x48	24.96	52.4	20,000	0.105	801	1,2
L-11	AHU-2 (RA)	EDJ-401	EXHAUST	28x48	4.64	50.5	3200	0.078	689	1,2
L-12	HP-2 (OA)	BVF	INTAKE	15x72	-	-	100	-	-	2,3

NOTES:
1. PROVIDE WITH ALUMINUM BIRDSCREEN.
2. PROVIDE CUSTOM COLOR TO BE SELECTED BY ARCHITECT.
3. PROVIDE MOTORIZED DAMPER AND 24V DAMPER ACTUATOR.
4. LOUVER TO BE INSTALLED IN WINDOW. COORDINATE WITH ARCHITECTURAL DOCUMENTS.

SUPPLY FAN SCHEDULE (SF)

UNIT No.	SERVES	'DIVERSITECH' MODEL NO.	TYPE	CFM	DRIVE	MOTOR		NOTES
						MAX. WATTS	POWER (V/PH/HZ)	
SF-1	HP-2	625-AF6	INLINE	100	BELT	37	120/1/60	1,2,3,4

NOTES:
1. INCLUDE ONE BELT AND SLEEVE CHANGE FOR EACH BELT DRIVE FAN.
2. FAN SHALL BE UL/CUL 705 RATED.
3. FURNISH FIELD INSTALLED ELECTRICAL DISCONNECT FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
4. INTERLOCK WITH MOTORIZED DAMPER OF LOUVER L-8.

EXHAUST FAN SCHEDULE (EF)

UNIT No.	SERVES	'GREENHECK' MODEL No.	TYPE	CFM	S.P. ("WG)	DRIVE	ELECTRICAL						NOTES
							POWER	HP	FLA	MCA	MOP (A)	FAN RPM	
EF-1	TOILET ROOMS	SQ-120-VG	INLINE	1550	0.75	DIRECT	120/1/60	1/2	6.4	8.0	15	1688	1,2,3

NOTES:
1. PROVIDE FACTORY INSTALLED STARTER AND DISCONNECT SWITCH.
2. PROVIDE FIELD INSTALLED CONTROLS AND ALL ASSOCIATED CONTROL RELAYS.
3. PROVIDE 24V MOTORIZED DAMPER AT EXTERIOR GRILLE. POWER FROM EXHAUST FAN.

ELECTRIC BASEBOARD HEATER SCHEDULE (EBH)

UNIT No.	SERVES	'MARKEL' MODEL No.	MOUNTING TYPE	LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	CAPACITY (BTU/HR)	ELECTRICAL			NOTES
								POWER (V/Ph/Hz)	FLA	KW	
EBH-1	TICKETING #114	E3707-040	BASEBOARD	40.0	8.5	3.0	2,550	120/1/60	6.3	0.75	1,2,3,4

NOTES:
1. PROVIDE 4" JUNCTION BOX ENCLOSURE. PROVIDE INTEGRAL THERMOSTAT AND MOUNT IN JUNCTION BOX.
2. PROVIDE FIELD INSTALLED CONTROLS.
3. FURNISH WITH FIELD INSTALLED ELECTRICAL DISCONNECT FOR INSTALLATION BY ELECTRICAL CONTRACTOR. MOUNT IN JUNCTION BOX.
4. COLOR SELECTED BY ARCHITECT.

AIR COOLED CONDENSING UNIT SCHEDULE (ACCU)

UNIT No.	SERVES	'SOLUTIONAIR' MODEL No.	LOCATION	REFRIG.	TOTAL CAPACITY (MBH)	ELECTRICAL				WEIGHT (LBS)	NOTES
						POWER (V/Ph/Hz)	FLA	MCA	MOP (A)		
ACCU-1	AHU-1	44-RF	ON GRADE	R-454B	528.0	460/3/60	83.7	91.1	110	2700	1,2,3,4,5
ACCU-2	AHU-2	9-RF	ON GRADE	R-454B	106.0	460/3/60	17.3	18.4	25	900	1,2,3,4,5

NOTES:
1. FURNISH WITH FIELD INSTALLED ELECTRICAL DISCONNECT FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
2. PROVIDE REFRIGERANT TO FULLY CHARGE SYSTEM.
3. PROVIDE REFRIGERANT PIPING BETWEEN AHU AND ACCU. SIZE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE REFRIGERANT LEAK DETECTION.
4. PROVIDE FIELD INSTALLED CONTROLS.
5. PROVIDE 6" THICK CONCRETE PAD. PAD SHALL EXTEND MINIMUM 6" PAST EDGE OF EQUIPMENT. MOUNT CONDENSING UNIT TO PAD.

ELECTRIC HEATER SCHEDULE (EH)

UNIT No.	SERVES	'MARKEL' MODEL No.	MOUNTING TYPE	DIMENSIONS (IN)			AIRFLOW CONFIG.	CAPACITY (BTU/HR)	CFM	ELECTRICAL			NOTES
				W	H	D				POWER (V/Ph/Hz)	FLA	KW	
EH-1	TOILET #1 - 111	Y3482A1	CEILING - FULLY RECESSED	24	24	9	FRONT IN / FRONT OUT	6,826	600	460/3/60	2.4	2.0	1,2,3,4
EH-2	WOMENS TOILET - 108	Y3484A1	CEILING - FULLY RECESSED	24	24	9	FRONT IN / FRONT OUT	13,600	600	460/3/60	4.8	4.0	1,2,3,4
EH-3	VESTIBULE #4 - 107	Y3485A1	CEILING - FULLY RECESSED	24	24	9	FRONT IN / FRONT OUT	17,000	600	460/3/60	6.1	5.0	1,2,3,4
EH-4	MENS TOILET - 109	Y3484A1	CEILING - FULLY RECESSED	24	24	9	FRONT IN / FRONT OUT	13,600	600	460/3/60	4.8	4.0	1,2,3,4
EH-5	CONCESSIONS - 102	Y3485A1	CEILING - FULLY RECESSED	24	24	9	FRONT IN / FRONT OUT	17,000	600	460/3/60	6.1	5.0	1,2,3,4
EH-6	CONCESSIONS - 102	Y3485A1	CEILING - FULLY RECESSED	24	24	9	FRONT IN / FRONT OUT	17,000	600	460/3/60	6.1	5.0	1,2,3,4
EH-7	VESTIBULE #3 - 120	6346D10	WALL - FULLY RECESSED	46	25	9	FRONT IN / FRONT OUT	34,130	500	460/3/60	15.4	10.0	1,2,3,4,5
EH-8	VESTIBULE #2 - 117	6346D10	WALL - FULLY RECESSED	46	25	9	FRONT IN / FRONT OUT	34,130	500	460/3/60	15.4	10.0	1,2,3,4,5
EH-9	VESTIBULE #2 - 117	6346D10	WALL - FULLY RECESSED	46	25	9	FRONT IN / FRONT OUT	34,130	500	460/3/60	15.4	10.0	1,2,3,4,5
EH-10	VESTIBULE #1 - 113	6346D10	WALL - FULLY RECESSED	46	25	9	FRONT IN / FRONT OUT	34,130	500	460/3/60	15.4	10.0	1,2,3,4,5
EH-11	VESTIBULE #1 - 113	6346D10	WALL - FULLY RECESSED	46	25	9	FRONT IN / FRONT OUT	34,130	500	460/3/60	15.4	10.0	1,2,3,4,5
EH-12	STAFF - 106A	E3322TD-RP	WALL - FULLY RECESSED	16	21	4	FRONT IN / FRONT OUT	3,413	175	120/1/60	8.3	1.0	1,2,3,4

NOTES:
1. PROVIDE FULLY RECESSED CEILING/WALL MOUNTED ELECTRIC HEATER. COORDINATE FINAL LOCATION WITH ARCHITECT.
2. PROVIDE WITH FACTORY INSTALLED DISCONNECT.
3. PROVIDE WITH FACTORY INSTALLED INTEGRAL THERMOSTAT.
4. COLOR SELECTED BY ARCHITECT.
5. PROVIDE WITH DISPOSABLE FILTERS. PROVIDE (1) EXTRA SET OF FILTERS.

AIR TERMINAL SCHEDULE

UNIT TAG	SERVICE	SIZE	TYPE	"PRICE" MODEL No.	DESCRIPTION	SYMBOL
SD	SUPPLY	12x12 24x24	STEEL SQUARE SUPPLY DIFFUSER WITH ADJUSTABLE PATTERN CONTROLLER	SCDA	PROVIDE "PRICE" MODEL "SCDA" STEEL SQUARE CEILING DIFFUSERS WITH ADJUSTABLE PATTERN CONTROLLERS OF THE SIZE AND AIRFLOWS INDICATED ON THE PLANS. DIFFUSERS SHALL CONSIST OF PRECISION FORMED BACK CONE OF ONE PIECE SEAMLESS CONSTRUCTION WHICH INCORPORATES A ROUND INLET COLLAR OF SUFFICIENT LENGTH FOR CONNECTING RIGID OR FLEX DUCT. AN INNER CONE ASSEMBLY SHALL CONSIST OF 3 CONES WHICH DROP BELOW THE DIFFUSER. FINISH SHALL BE B12 POWDER COAT, COLOR SELECTED BY ARCHITECT.	
ALTERNATE #5 → LD	SUPPLY	4'-0" (x3) 3/4" SLOTS	ALUMINUM LINEAR SLOT SUPPLY DIFFUSER	SDS75-SDB	PROVIDE "PRICE" MODEL "SDS" EXTRUDED ALUMINUM LINEAR SLOT DIFFUSERS OF THE SIZE AND AIRFLOWS INDICATED ON THE PLANS. DIFFUSERS SHALL BE PROVIDED WITH "PRICE" MODEL "SDB" INSULATED PLENUM BOX. PROVIDE WITH FACTORY DAMPER. PROVIDE WITH 8"Ø INLET, AND THREE 3/4" WIDE SLOTS. FINISH SHALL BE B12 POWDER COAT, COLOR SELECTED BY ARCHITECT.	
RG/TG	RETURN / TRANSFER	INDICATED ON PLANS	STEEL RETURN / TRANSFER GRILLES	535	PROVIDE "PRICE" MODEL "535" STEEL RETURN GRILLES OF THE SIZES AND MOUNTING TYPES INDICATED ON THE PLANS. GRILLES SHALL BE LOUVERED BLADE TYPE SPACED 1/2" ON CENTER. FINISH SHALL BE B12 POWDER COAT, COLOR SELECTED BY ARCHITECT.	
ER	EXHAUST	INDICATED ON PLANS	STEEL EXHAUST REGISTER	535D	PROVIDE "PRICE" MODEL "535D" STEEL EXHAUST REGISTERS OF THE SIZES AND MOUNTING TYPES INDICATED ON THE PLANS. REGISTERS SHALL BE LOUVERED BLADE TYPE SPACED 1/2" ON CENTER. THE INTEGRAL VOLUME CONTROL DAMPER SHALL BE OF THE OPPOSED BLADE TYPE. THE DAMPER SHALL BE OPERABLE FROM THE REGISTER FACE. FINISH SHALL BE B12 POWDER COAT, COLOR SELECTED BY ARCHITECT.	

NOTES:
1. ALL AIR TERMINAL FINISHES AND COLORS SELECTED BY ARCHITECT.
2. COORDINATE DIFFUSER MOUNTING TYPES AND BORDERS WITH NEW AND EXISTING CEILING TYPES.

UNIT TAG — SD — 12x12 100 — NECK SIZE & BRANCH DUCT SIZE — AIRFLOW (CFM) — NUMBER OF TYPICAL TERMINALS IN SPACE

UNIT TAG — LD — 4'-0" 100 — LENGTH — AIRFLOW (CFM) — NUMBER OF TYPICAL TERMINALS IN SPACE

UNIT TAG — RG — 12x12 100 — GRILLE SIZE — AIRFLOW (CFM) — NUMBER OF TYPICAL TERMINALS IN SPACE

UNIT TAG — ER — 12x12 100 — REGISTER SIZE — AIRFLOW (CFM) — NUMBER OF TYPICAL TERMINALS IN SPACE

HVAC SYMBOL LIST

	LIGHT LINE - EXIST. DUCTWORK, PIPING, ETC...	2"(35.0)	TYPICAL PIPE SIZE AND FLOW DESIGNATION	OED	OPEN END DUCT
	HEAVY HIDDEN LINE - DEMOLISHED DUCTWORK, PIPING, ETC...	S	TEMPERATURE SENSOR	SA	SUPPLY AIR DUCTWORK
	HEAVY LINE - NEW DUCTWORK, PIPING, ETC...	S_G	TEMPERATURE SENSOR WITH GUARD	RA	RETURN AIR DUCTWORK
GS	GLYCOL SUPPLY PIPING	BS	BREAK GLASS / EMERGENCY BOILER STOP SWITCH	EA	EXHAUST AIR DUCTWORK
GR	GLYCOL RETURN PIPING	TYP.	TYPICAL	TA	TRANSFER AIR DUCTWORK
CD	CONDENSATE DRAIN PIPING	FD	FIRE DAMPER	OA	OUTSIDE AIR DUCTWORK
RS/RL	REFRIGERANT PIPING	MD	MOTORIZED DAMPER	UH	UNIT HEATER
	SHUTOFF VALVE		MANUAL BALANCING DAMPER	EBH	ELECTRIC BASEBOARD HEATER
	CALIBRATED BALANCING VALVE		POINT OF CONNECTION	EH	ELECTRIC HEATER
	FLOW ARROW	8"ø	TYPICAL ROUND DUCT DESIGNATION	SF	SUPPLY FAN
	PITCH PIPING (DOWN IN DIRECTION OF ARROW)	24x12	TYPICAL DUCT SIZE DESIGNATION (INSIDE SHEETMETAL DIMENSIONS)	EF	EXHAUST FAN
	2-WAY CONTROL VALVE	(L)	1" THICK INTERNAL DUCT LINING (SIZE ON PLANS INDICATES INSIDE SHEETMETAL DIMENSIONS)	HP	HEAT PUMP
	3-WAY CONTROL VALVE			AHU	AIR HANDLING UNIT
	PIPE RISE	TFA/FFA	TO FLOOR ABOVE / FROM FLOOR ABOVE	ACCU	AIR COOLED CONDENSING UNIT
	PIPE DROP	TFB/FFB	TO FLOOR BELOW / FROM FLOOR BELOW	ET	EXPANSION TANK
	PIPE TEE	GD	GREASE DUCT	AS	AIR SEPARATOR
CO	CLEANOUT	P.G.	PROPYLENE GLYCOL	GF	GLYCOL FEEDER
	DOOR UNDERCUT	AFF	ABOVE FINISHED FLOOR	DN	DOWN
				L	LOUVER
				EQUIP	EQUIPMENT

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Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

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No. REVISIONS DATE

STATE OF NEW YORK — DANTE G. IACOVELLI — LICENSED — 094459 — PROFESSIONAL ENGINEER

EXPIRATION DATE: 08/31/2029

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DRAWING TITLE:

MECHANICAL LEGENDS AND SCHEDULES

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.

M-001

HOT WATER BOILER SCHEDULE (B)

UNIT No.	'LOCHINVAR' MODEL No.	TYPE	EWT (°F)	LWT (°F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	SYSTEM MEDIA	OUTPUT (MBH)	GAS INPUT RATE (CFH)	GAS PRESSURE RANGE (" W.C.)	TURN-DOWN	RELIEF VALVE PRESSURE (PSI)	INTAKE SIZE (IN)	FLUE SIZE (IN)	POWER (V/Ph/Hz)	FLA	MCA	OPERATING WEIGHT (LBS)	NOTES
B-1	FBN-2501	CONDENSING	140.0	160.0	240.0	8.4	40% P.G.	2087	2400	4" - 14"	20:1	50.0	8"	9"	208/3/60	4.5	5.6	3600	1,2,3,4,5,6
B-2	FBN-2501	CONDENSING	140.0	160.0	240.0	8.4	40% P.G.	2087	2400	4" - 14"	20:1	50.0	8"	9"	208/3/60	4.5	5.6	3600	1,2,3,4,5,6

NOTES:
1. PROVIDE INLINE BOILER PUMP. REFER TO 'HOT WATER BOILER PUMP SCHEDULE.'
2. PROVIDE LOW-WATER CUTOFF WITH MANUAL RESET AND TEST.
3. PROVIDE CONDENSATE NEUTRALIZATION KIT.
4. PROVIDE CAST IRON HEAT EXCHANGER.
5. PROVIDE RETURN WATER TEMPERATURE SENSOR.
6. PROVIDE FACTORY CONTROLS WITH BACNET INTERFACE.

SNOW MELT MANIFOLD SCHEDULE (SM)

UNIT No.	ZONE SERVED	MANUFACTURER	SYSTEM TYPE	SYSTEM MEDIA	ZONE AREA (SQ FT)	QUANTITY OF CIRCUITS	TOTAL LENGTH (FT)	TUBING SIZE	TUBING SPACING	TOTAL LOAD (MBH)	HEAD LOSS (FT WATER)	FLOW (GPM)	EWT (°F)	LWT (°F)	NOTES
SM-1	EAST	UPONOR	SNOW MELT	40% P.G.	757.0	5	1471.0	3/4"	6"	136.2	22.6	11.8	160.0	135.0	1,2,3,4,5,6,7
SM-2	SOUTH	UPONOR	SNOW MELT	40% P.G.	300.0	2	565.0	3/4"	6"	53.9	20.7	4.7	160.0	135.0	1,2,3,4,5,6,7
SM-3	WEST VEST	UPONOR	SNOW MELT	40% P.G.	219.0	2	425.0	3/4"	6"	39.4	9.6	3.4	160.0	135.0	1,2,3,4,5,6,7
SM-4	NORTH	UPONOR	SNOW MELT	40% P.G.	408.0	3	821.0	3/4"	6"	73.4	16.9	6.4	160.0	135.0	1,2,3,4,5,6,7
SM-5	WEST CONF	UPONOR	SNOW MELT	40% P.G.	313.0	2	580.0	3/4"	6"	56.2	22.1	4.9	160.0	135.0	1,2,3,4,5,6,7

← ALTERNATE #1

NOTES:
1. PROVIDE STAINLESS STEEL MANIFOLD. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DOCUMENTS.
2. PROVIDE WITH SYSTEM FLOW METER.
3. PROVIDE WITH ISOLATION VALVES.
4. PROVIDE WITH MODULATING 3-WAY CONTROL VALVE.
5. PROVIDE OUTDOOR, SLAB, AND SPACE SENSORS.
6. PROVIDE INLINE PUMP. REFER TO 'SNOWMELT SYSTEM PUMP SCHEDULE.'
7. PROVIDE MANUFACTURERS RECESSED MANIFOLD WALL CABINET.

HOT WATER BOILER PUMP SCHEDULE (BP)

UNIT No.	EQUIPMENT SERVED	'GRUNDFOS' MODEL No.	GPM	HEAD (FT. H2O)	EFFICIENCY (%)	MOTOR			PUMP TYPE	NOTES
						HP	RPM	POWER (V/Ph/Hz)		
BP-1	B-1	TPE 100-160	240.0	20.0	68.9	3.0	2926	208/3/60	INLINE	1,2
BP-2	B-2	TPE 100-160	240.0	20.0	68.9	3.0	2926	208/3/60	INLINE	1,2

NOTES:
1. PROVIDE VARIABLE FREQUENCY DRIVE WITH LOCKABLE DISCONNECT.
2. CONNECT TO BOILER CONTROLLER.

SYSTEM / SECONDARY PUMP SCHEDULE (P)

UNIT No.	EQUIPMENT SERVED	'GRUNDFOS' MODEL No.	GPM	HEAD (FT. H2O)	EFFICIENCY (%)	MOTOR			PUMP TYPE	NOTES
						HP	RPM	POWER (V/Ph/Hz)		
P-1	AIR HANDLER LOOP	TPE3 50-240	150.0	45.0	68.4	3.0	4921	460/3/60	VERTICAL INLINE	1,2,3,4
P-2	AIR HANDLER LOOP	TPE3 50-240	150.0	45.0	68.4	3.0	4921	460/3/60	VERTICAL INLINE	1,2,3,4
P-3	SNOW MELT LOOP	TPE3 40-180	35.0	50.0	46.7	1.0	4482	460/3/60	VERTICAL INLINE	1,2,3,4
P-4	SNOW MELT LOOP	TPE3 40-180	35.0	50.0	46.7	1.0	4482	460/3/60	VERTICAL INLINE	1,2,3,4

← ALTERNATE #1

NOTES:
1. PROVIDE VARIABLE FREQUENCY DRIVE WITH LOCKABLE DISCONNECT.
2. PROVIDE SUCTION DIFFUSER AND MULTI-PURPOSE VALVE.
3. PROVIDE MOTOR RATED FOR VARIABLE FREQUENCY DRIVE.
4. PROVIDE AEGIS SHAFT GROUNDING COLLAR.

SNOWMELT SYSTEM PUMP SCHEDULE (SMP)

UNIT No.	SNOWMELT ZONE SERVED	'GRUNDFOS' MODEL No.	GPM	HEAD (FT. H2O)	EFFICIENCY (%)	MOTOR			PUMP TYPE	NOTES
						WATTS	RPM	POWER (V/Ph/Hz)		
SMP-1	SM-1	MAGNA3 32-120 GF	12.0	23.0	49.0	187.0	3653	120/1/60	INLINE CIRCULATOR	1,2
SMP-2	SM-2	MAGNA3 32-120 GF	5.0	21.0	30.9	187.0	3507	120/1/60	INLINE CIRCULATOR	1,2
SMP-3	SM-3	MAGNA3 32-60 GF	4.0	10.0	25.6	106.0	2481	120/1/60	INLINE CIRCULATOR	1,2
SMP-4	SM-4	MAGNA3 32-60 GF	7.0	17.0	36.7	106.0	3227	120/1/60	INLINE CIRCULATOR	1,2
SMP-5	SM-5	MAGNA3 32-120 GF	5.0	23.0	30.5	187.0	3673	120/1/60	INLINE CIRCULATOR	1,2

← ALTERNATE #1

NOTES:
1. PROVIDE VARIABLE FREQUENCY DRIVE WITH LOCKABLE DISCONNECT.
2. CONNECT TO SNOW MELT AND MANIFOLD ZONE CONTROLS.

EXPANSION TANK SCHEDULE (ET)

UNIT No.	SYSTEM SERVED	'THRUSH' MODEL No.	TANK TYPE	TANK VOLUME (GAL)	SYSTEM VOLUME (GAL)	AVERAGE DESIGN TEMP (°F)	FLUID TYPE	MIN TANK PRESSURE (PSIG)	MAX DESIGN PRESSURE (PSIG)	HEIGHT (IN.)	DIAMETER (IN.)	INLET (IN.)	WEIGHT (LBS)	NOTES
ET-1	HYDRONIC LOOP	NLA-300	BLADDER	79.0	400.0	160.0	40% P.G.	30.0	60.0	55.0	24.0	1-1/2"	250	1

NOTES:
1. PROVIDE 100% ACCEPTANCE.

AIR/DIRT SEPARATOR SCHEDULE (AS)

UNIT No.	SYSTEM SERVED	'SPIROTHERM' MODEL No.	CAPACITY (GPM)	TANGENTIAL INLET/OUTLET SIZE (IN.)	HEIGHT (IN.)	WIDTH (IN.)	PRESSURE DROP (FT. H2O)	WEIGHT (LBS)	NOTES
AS-1	HYDRONIC LOOP	VDT-400-FAM	185.0	4"Ø	38.4	20.6	1.2	160	1

NOTES:
1. PROVIDE WITH SWITCHABLE ON/OFF STYLE MAGNET.

GLYCOL FILL STATION SCHEDULE (GF)

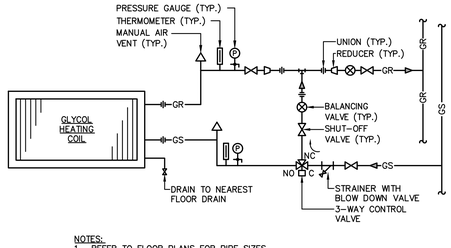
UNIT No.	SYSTEM SERVED	'JOHN WOOD' MODEL No.	SYSTEM MEDIA	CAPACITY (GAL)	SYSTEM OUTLET SIZE	FLOW (GPM)	PRESSURE (PSI)	POWER (V/Ph/Hz)	HP	NOTES
GF-1	HYDRONIC LOOP	JWGP-53-055	40% P.G.	55.0	1/2"	4.3	100.0	120/1/60	1/3	1,2,3

NOTES:
1. PROVIDE LOW-LEVEL CUTOUT FLOAT SWITCH WITH VISUAL AND AUDIBLE ALARM INDICATION.
2. PROVIDE PRESSURE REDUCING VALVE AND EXPANSION TANK BETWEEN GLYCOL FILL STATION AND CONNECTION TO SYSTEM PIPING.
3. PROVIDE WITH 10 FT POWER CORD WITH PLUG.

HOT WATER UNIT HEATER SCHEDULE (UH)

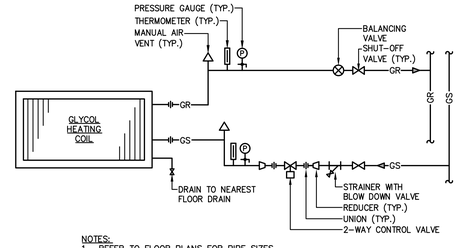
UNIT No.	AREA SERVED	'RITTLING' MODEL No.	TYPE	CAPACITY (MBH)	HOT WATER					AIR			ELECTRICAL			WEIGHT (LBS)	NOTES
					SYSTEM MEDIA	WATER FLOW (GPM)	PRESSURE DROP (FT HD)	EWT (°F)	LWT (°F)	AIRFLOW (CFM)	EAT (°F)	LAT (°F)	POWER (V/Ph/Hz)	HP	RPM		
UH-1	LOADING/MECH	RH-165	HORIZONTAL	84.8	40% P.G.	13.3	2.48	160.0	146.7	2500	60.0	90.6	120/1/60	1/4	1075	140	1,2,3,4
UH-2	LOADING/MECH	RH-165	HORIZONTAL	84.8	40% P.G.	13.3	2.48	160.0	146.7	2500	60.0	90.6	120/1/60	1/4	1075	140	1,2,3,4
UH-3	LOADING/MECH	RH-165	HORIZONTAL	84.8	40% P.G.	13.3	2.48	160.0	146.7	2500	60.0	90.6	120/1/60	1/4	1075	140	1,2,3,4

NOTES:
1. PROVIDE HANGING KIT AND NEOPRENE HANGER VIBRATION ISOLATORS. SUPPORT UNIT FROM STRUCTURE ABOVE.
2. PROVIDE WITH FACTORY INSTALLED ELECTRICAL DISCONNECT SWITCH.
3. PROVIDE WITH 2-WAY CONTROL VALVE.
4. PROVIDE WITH FACTORY SUPPLIED ANALOG THERMOSTAT AND PIPE-MOUNTED AQUASTAT.



NOTES:
1. REFER TO FLOOR PLANS FOR PIPE SIZES.
2. INSTALLATION OF HOT WATER COILS SIMILAR.
3. IT IS NOT ACCEPTABLE TO SIZE PIPING PER COIL CONNECTION SIZES.

3-WAY VALVE GLYCOL HEATING COIL PIPING
SCALE: NONE



NOTES:
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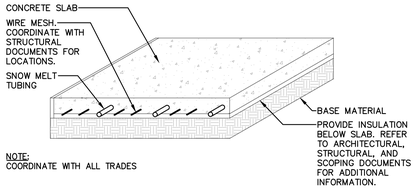
3. IT IS NOT ACCEPTABLE TO SIZE PIPING PER COIL CONNECTION SIZES.

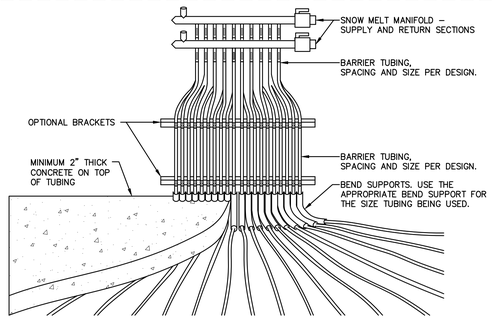
2-WAY VALVE GLYCOL HEATING COIL PIPING
SCALE: NONE

ALTERNATE #1

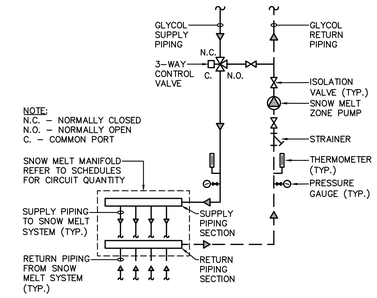


NOTE: COORDINATE WITH ALL TRADES

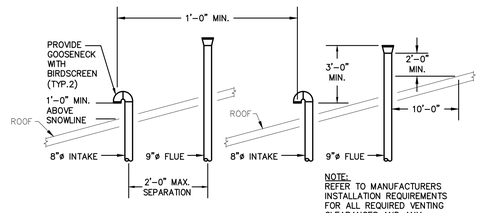
CONCRETE SLAB ON GRADE SNOW MELT DETAIL
SCALE: NONE



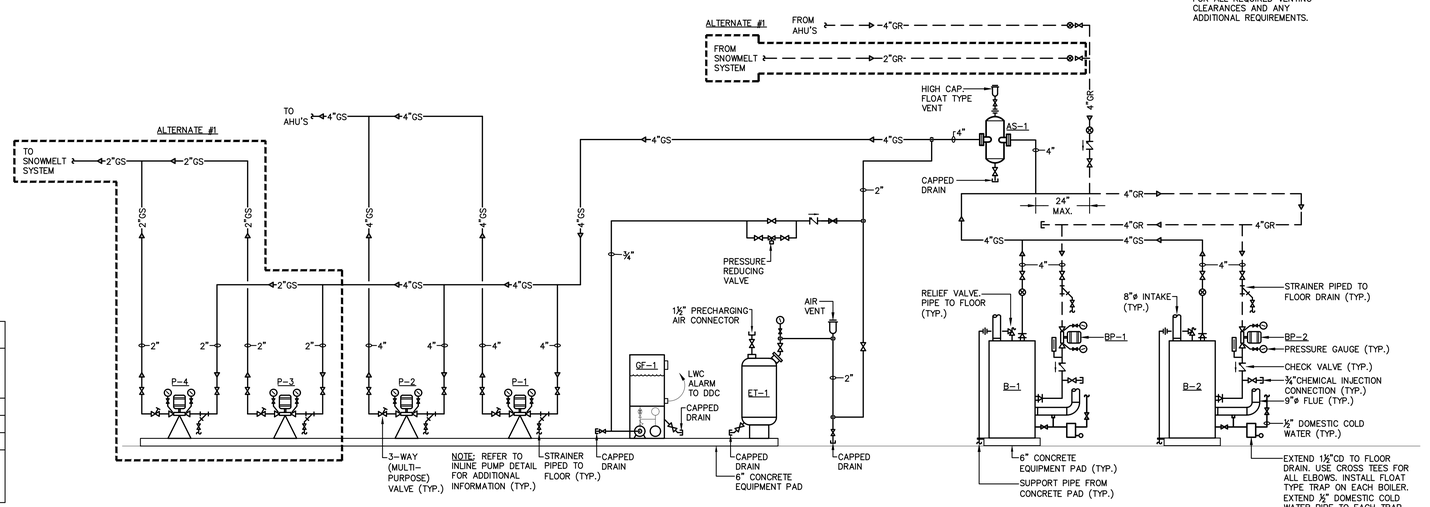
TYPICAL SNOW MELT MANIFOLD DETAIL
SCALE: NONE



TYPICAL SNOW MELT MANIFOLD PIPING DETAIL
SCALE: NONE



NOTE:
REFER TO MANUFACTURERS INSTALLATION REQUIREMENTS FOR ALL REQUIRED VENTING CLEARANCES AND ANY ADDITIONAL REQUIREMENTS.



BOILER PIPING SCHEMATIC
SCALE: NONE

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MECHANICAL SCHEDULES AND DETAILS

DATE: 11/11/2026
SCALE: AS SHOWN
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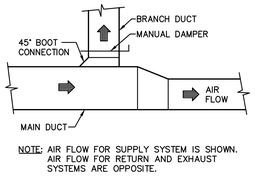
CHECKED BY: DGI
PROJECT No: 23-006

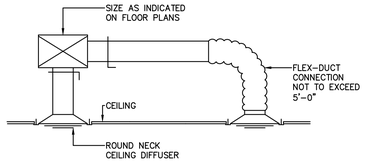
DRAWING No.
M-002



NOTE: AIR FLOW FOR SUPPLY SYSTEM IS SHOWN. AIR FLOW FOR RETURN AND EXHAUST SYSTEMS ARE OPPOSITE.

TYPICAL DUCT CONNECTION DETAIL

SCALE: NONE



TYPICAL DUCT CONNECTION DETAIL

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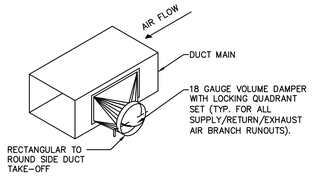
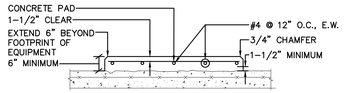


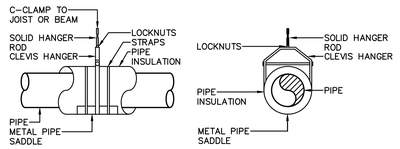
TYPICAL DUCT TRANSITION DETAIL

SCALE: NONE



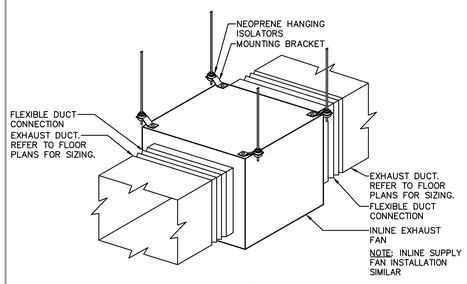
EQUIPMENT PAD

SCALE: NONE



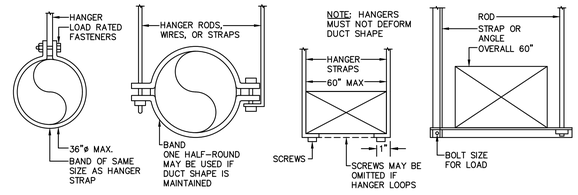
PIPE SUPPORT DETAIL

SCALE: NONE



INLINE EXHAUST FAN DETAIL

SCALE: NONE



DUCT SUPPORT DETAIL

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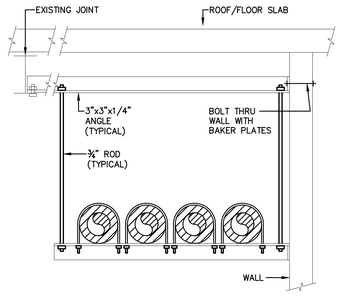
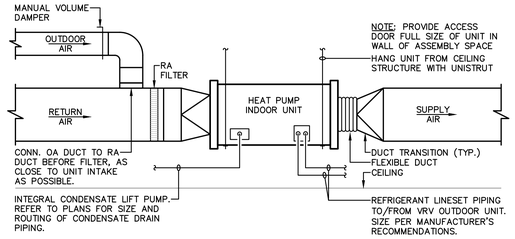


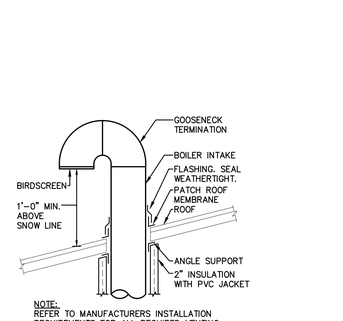
TYPICAL PIPE SUPPORT DETAIL

SCALE: NONE



TYPICAL DUCTED HEAT PUMP INSTALLATION DETAIL

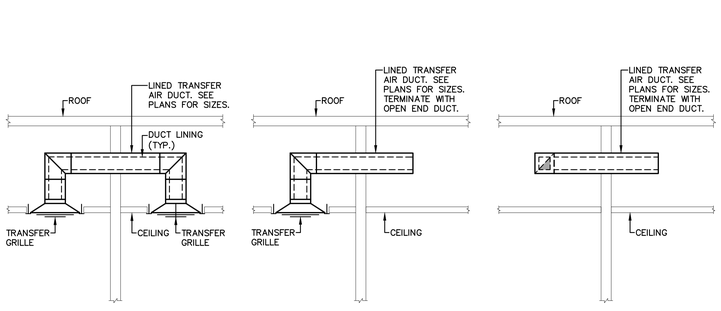
SCALE: NONE



NOTE:
REFER TO MANUFACTURERS INSTALLATION REQUIREMENTS FOR ALL REQUIRED VENTING CLEARANCES AND ADDITIONAL REQUIREMENTS.

BOILER INTAKE DETAIL

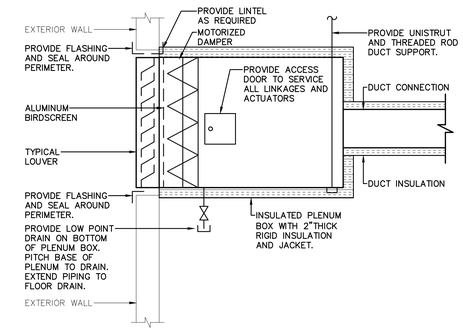
SCALE: NONE



CEILING GRILLE TO CEILING GRILLE | CEILING GRILLE TO OPEN END DUCT | OPEN END DUCT TO OPEN END DUCT

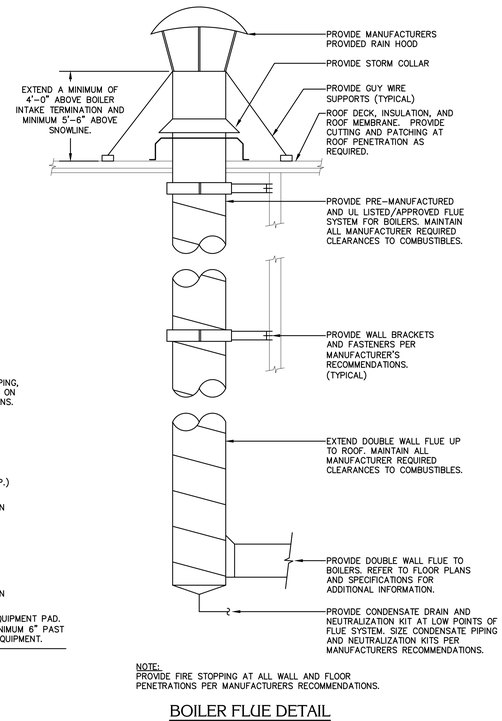
TYPICAL TRANSFER AIR DETAILS

SCALE: NONE



TYPICAL LOUVER INSTALLATION DETAIL

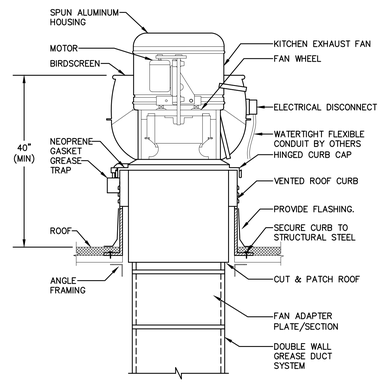
SCALE: NONE



NOTE:
PROVIDE FIRE STOPPING AT ALL WALL AND FLOOR PENETRATIONS PER MANUFACTURERS RECOMMENDATIONS.

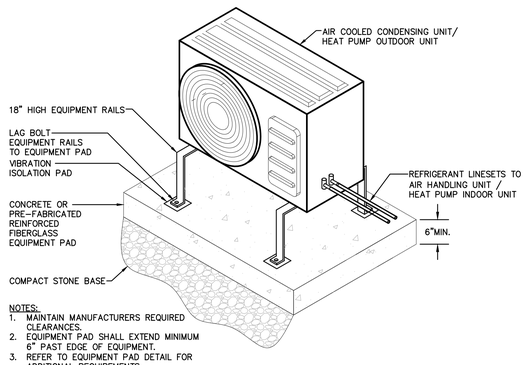
BOILER FLUE DETAIL

SCALE: NONE



TYPICAL KITCHEN EXHAUST FAN DETAIL

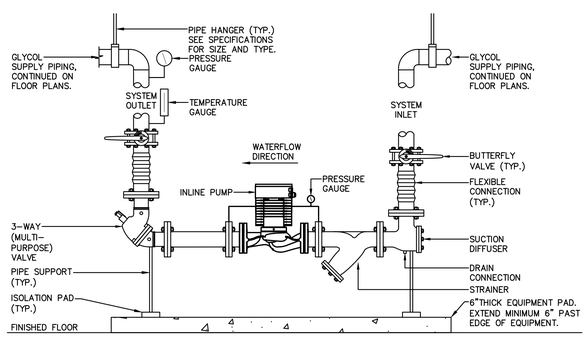
SCALE: NONE



NOTES:
1. MAINTAIN MANUFACTURERS REQUIRED CLEARANCES.
2. EQUIPMENT PAD SHALL EXTEND MINIMUM 6" PAST EDGE OF EQUIPMENT.
3. REFER TO EQUIPMENT PAD DETAIL FOR ADDITIONAL REQUIREMENTS.

AIR COOLED CONDENSING UNIT / HEAT PUMP OUTDOOR UNIT AT GRADE INSTALLATION DETAIL

SCALE: NONE



NOTES:
1. SUPPORT INLINE PUMP PER MANUFACTURERS REQUIREMENTS. IT IS NOT ACCEPTABLE TO SUPPORT PUMP FROM HOT WATER PIPING.
2. REFER TO FLOOR PLANS AND BOILER PIPING SCHEMATIC FOR PIPE SIZES.

INLINE PUMP INSTALLATION DETAIL

SCALE: NONE

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Erie County Agricultural Society

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No.	REVISIONS	DATE

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EXPIRATION DATE: 08/31/2029

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architecture , planning , consulting
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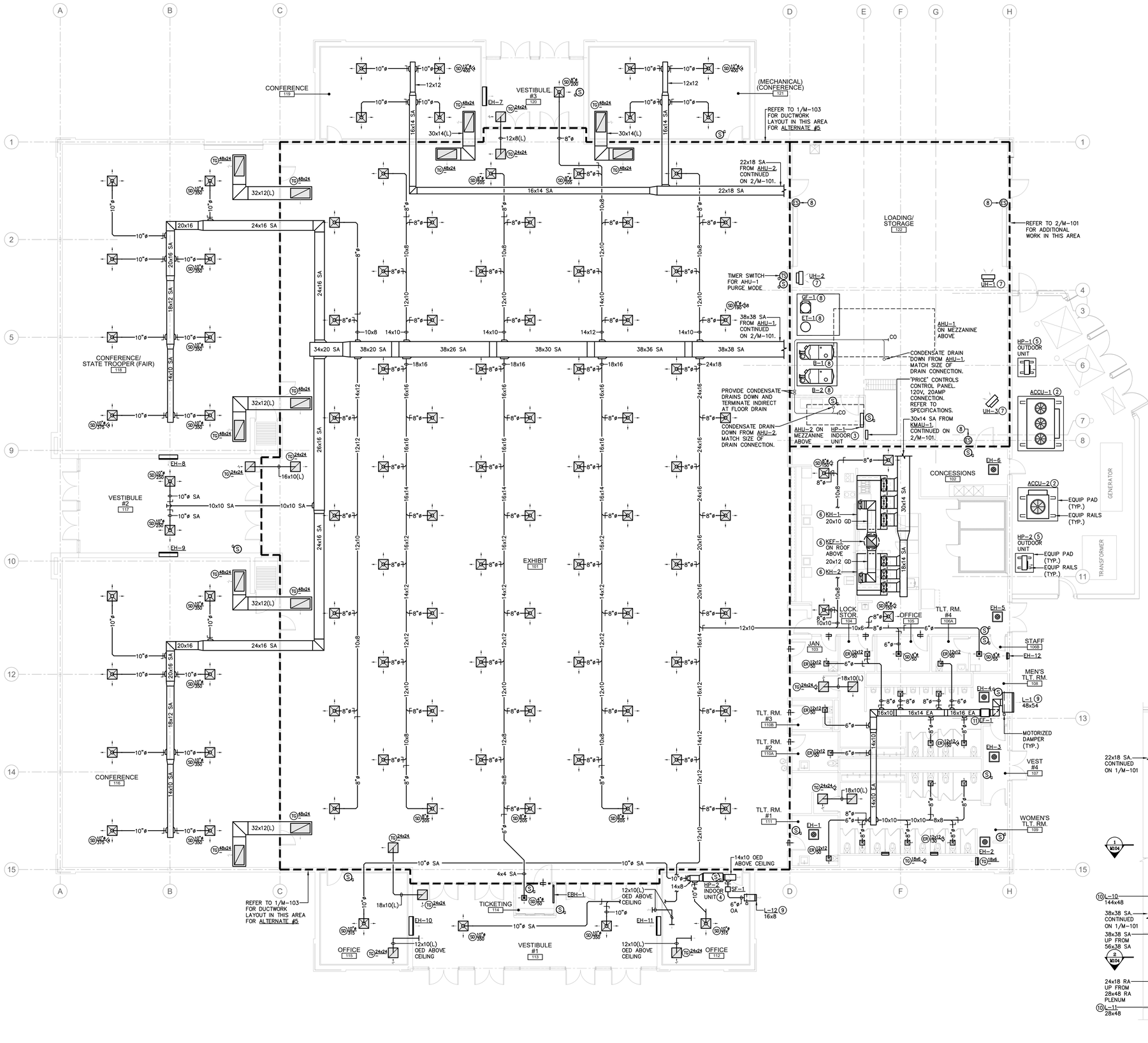
DRAWING TITLE:

MECHANICAL DETAILS

DATE:	11/11/2026
SCALE:	AS SHOWN
DRAWN BY:	MRS
CHECKED BY:	DGI
PROJECT No:	23-006

DRAWING No.

M-003



1 MECHANICAL DUCTWORK PLAN
SCALE: 1/8" = 1'-0"

2 MECHANICAL DUCTWORK PLAN – MEZZANINE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

B. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC., WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR IS TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION AND MAKE SUCH CHANGES IN PIPING, DUCTWORK, EQUIPMENT LOCATIONS, ETC. AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. COORDINATE ALL CHANGES WITH OTHER TRADES AND ARCHITECT/ENGINEER.

C. PROVIDE ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.

D. INSTALL ALL PIPING, DUCTWORK, EQUIPMENT, ETC. TO AVOID INTERFERENCE WITH THE OPERATION AND SERVICING OF ALL EQUIPMENT. IN GENERAL, DO NOT INSTALL ANYTHING ABOVE OR WITHIN 3 FT. IN FRONT OF ELECTRICAL GEAR.

E. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR EQUIPMENT OPERATION, MAINTAINANCE, AND SERVICE.

F. PROVIDE FIRE STOPPING FOR ALL RATED FLOOR AND WALL PENETRATIONS.

G. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROOF WARRANTIES.

H. TERMINATE ALL NEW ROOF VENTS A MINIMUM OF 3' ABOVE ROOF MEMBRANE.

I. ALL REFRIGERANT SUCTION AND LIQUID (RS/RL) PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

J. PROVIDE ALL CORE DRILLS AND SAW CUTS AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL LOCATIONS IN FIELD PRIOR TO INSTALLATION. PROVIDE FIRE STOPPING AND DAMPERS AT ALL FLOOR PENETRATIONS AS REQUIRED.

DRAWING NOTES ⓓ:

1. PROVIDE AIR HANDLING UNIT (AHU) AND ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND AIR DEVICES. BALANCE AIR DEVICES TO NOTED VALUES. PROVIDE REFRIGERANT PIPING TO OUTDOOR UNIT.
2. PROVIDE AIR COOLED CONDENSING UNIT (ACCU) AND ASSOCIATED EQUIPMENT PAD, EQUIPMENT RAILS, AND REFRIGERANT PIPING. COORDINATE FINAL LOCATION WITH ALL OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES.
3. PROVIDE HEAT PUMP INDOOR UNIT AND ASSOCIATED SUPPORTS AND PIPING. PROVIDE REFRIGERANT PIPING TO OUTDOOR UNIT. PROVIDE CONDENSATE DRAIN PIPING AND ROUTE TO NEAREST FLOOR DRAIN.
4. PROVIDE HEAT PUMP INDOOR UNIT AND ASSOCIATED DUCTWORK, AIR DEVICES, SUPPORTS AND PIPING. BALANCE AIR DEVICES TO NOTED VALUES. PROVIDE OUTSIDE AIR DUCTWORK, SUPPLY FAN, AND MOTORIZED DAMPER. PROVIDE REFRIGERANT PIPING TO OUTDOOR UNIT. PROVIDE CONDENSATE DRAIN PIPING AND ROUTE TO NEAREST FLOOR DRAIN.
5. PROVIDE HEAT PUMP OUTDOOR UNIT AND ASSOCIATED EQUIPMENT PAD, EQUIPMENT RAILS, AND REFRIGERANT PIPING. COORDINATE FINAL LOCATION WITH ALL OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES.
6. PROVIDE KITCHEN HOOD (KH), KITCHEN EXHAUST FAN (KEF), KITCHEN MAKEUP AIR UNIT (KMAU) AND ALL ASSOCIATED SUPPORTS, DUCTWORK, AND PIPING. PROVIDE ROOF CURB FOR KITCHEN EXHAUST FAN AND ALL CUTTING AND PATCHING OF ROOF. REFER TO SCHEDULES, DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE HYDRONIC UNIT HEATER (UH) AND ALL ASSOCIATED PIPING AND SUPPORTS.
8. PROVIDE COMPLETE HYDRONIC BOILER SYSTEM INCLUDING BOILERS, CIRCULATION PUMPS, AIR SEPARATOR, EXPANSION TANK, GLYCOL FILL, AND ALL REQUIRED PIPING, ACCESSORIES, FITTINGS, AND SPECIALTIES. PROVIDE BOILER FLUE AND INTAKE DUCTWORK TO ROOF. PROVIDE EMERGENCY BOILER STOPS. REFER TO BOILER PIPING SCHEMATIC AND DETAILS FOR ADDITIONAL INFORMATION.
9. PROVIDE LOUVER, LINTEL, MOTORIZED DAMPER, AND WALL SLEEVE. PROVIDE CUTTING AND PATCHING OF EXTERIOR WALL AND SEAL WEATHERTIGHT. PROVIDE INSULATED PLENUM BOX SAME SIZE AS LOUVER AND SLOPE TO EXTERIOR.
10. PROVIDE LOUVER/RETURN GRILLE, LINTEL, AND WALL SLEEVE. PROVIDE CUTTING AND PATCHING OF INTERIOR WALL. PROVIDE PLENUM BOX SAME SIZE AS LOUVER AND CONNECT TO RETURN DUCTWORK. COORDINATE EXACT ELEVATION IN FIELD.
11. PROVIDE INLINE EXHAUST FAN (EF) AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, AND SUPPORTS. BALANCE AIR DEVICES TO NOTED VALUES.

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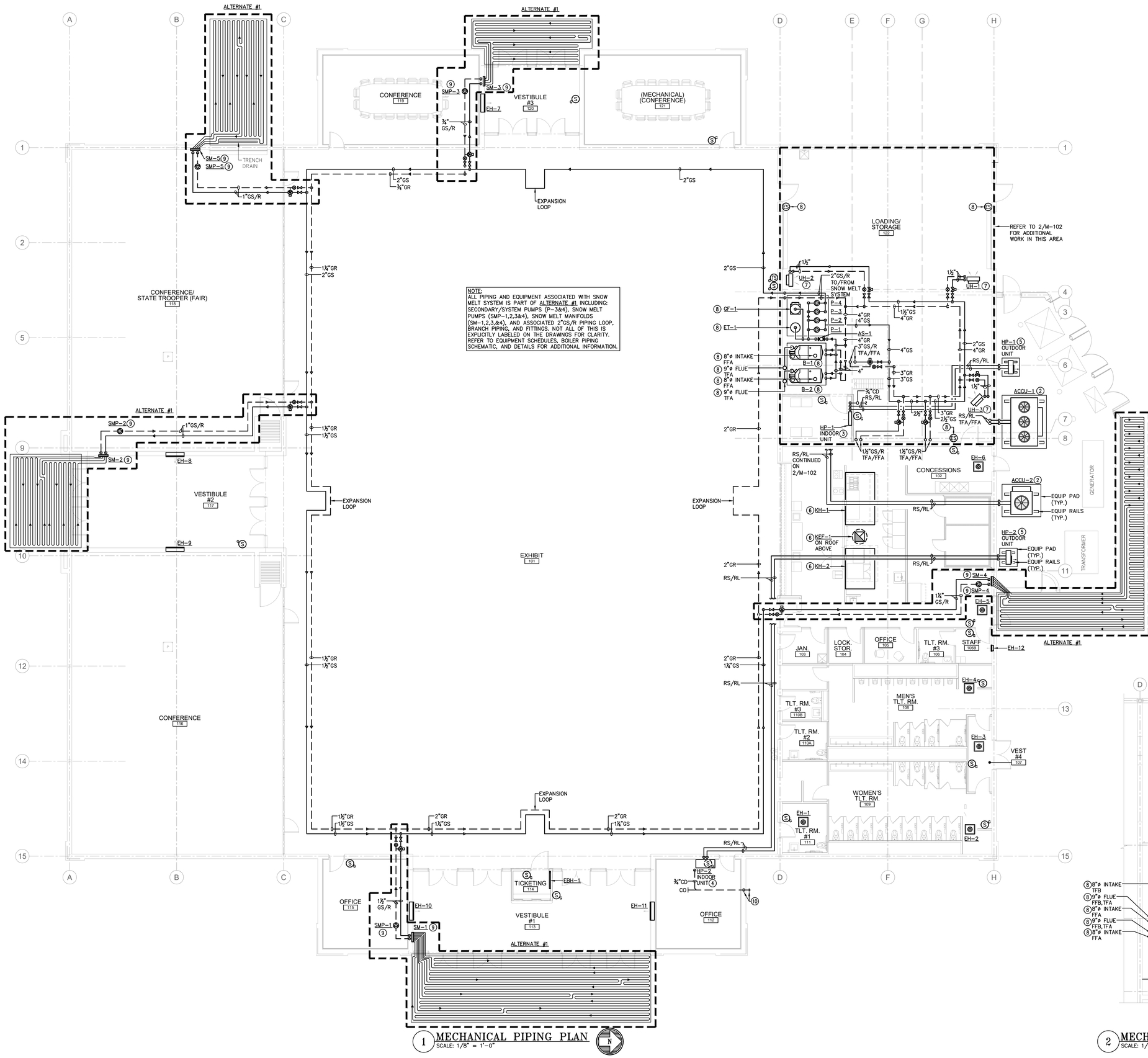
DRAWING TITLE:

MECHANICAL DUCTWORK PLANS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
M-101



1 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"

2 MECHANICAL PIPING PLAN – MEZZANINE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

B. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC., WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR IS TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION AND MAKE SUCH CHANGES IN PIPING, DUCTWORK, EQUIPMENT LOCATIONS, ETC. AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. COORDINATE ALL CHANGES WITH OTHER TRADES AND ARCHITECT/ENGINEER.

C. PROVIDE ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.

D. INSTALL ALL PIPING, DUCTWORK, EQUIPMENT, ETC. TO AVOID INTERFERENCE WITH THE OPERATION AND SERVICING OF ALL EQUIPMENT. IN GENERAL, DO NOT INSTALL ANYTHING ABOVE OR WITHIN 3 FT. IN FRONT OF ELECTRICAL GEAR.

E. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR EQUIPMENT OPERATION, MAINTAINANCE, AND SERVICE.

F. PROVIDE FIRE STOPPING FOR ALL RATED FLOOR AND WALL PENETRATIONS.

G. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROOF WARRANTIES.

H. TERMINATE ALL NEW ROOF VENTS A MINIMUM OF 3' ABOVE ROOF MEMBRANE.

I. ALL REFRIGERANT SUCTION AND LIQUID (RS/RL) PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

J. PROVIDE ALL CORE DRILLS AND SAW CUTS AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL LOCATIONS IN FIELD PRIOR TO INSTALLATION. PROVIDE FIRE STOPPING AND DAMPERS AT ALL FLOOR PENETRATIONS AS REQUIRED.

DRAWING NOTES ⓓ:

1. PROVIDE AIR HANDLING UNIT (AHU) AND ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND AIR DEVICES. BALANCE AIR DEVICES TO NOTED VALUES. PROVIDE REFRIGERANT PIPING TO OUTDOOR UNIT.
2. PROVIDE AIR COOLED CONDENSING UNIT (ACCU) AND ASSOCIATED EQUIPMENT PAD, EQUIPMENT RAILS, AND REFRIGERANT PIPING. COORDINATE FINAL LOCATION WITH ALL OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES.
3. PROVIDE HEAT PUMP INDOOR UNIT AND ASSOCIATED SUPPORTS AND PIPING. PROVIDE REFRIGERANT PIPING TO OUTDOOR UNIT. PROVIDE CONDENSATE DRAIN PIPING AND ROUTE TO NEAREST FLOOR DRAIN.
4. PROVIDE HEAT PUMP INDOOR UNIT AND ASSOCIATED DUCTWORK, AIR DEVICES, SUPPORTS AND PIPING. BALANCE AIR DEVICES TO NOTED VALUES. PROVIDE OUTSIDE AIR DUCTWORK, SUPPLY FAN, AND MOTORIZED DAMPER. PROVIDE REFRIGERANT PIPING TO OUTDOOR UNIT. PROVIDE CONDENSATE DRAIN PIPING AND ROUTE TO NEAREST FLOOR DRAIN.
5. PROVIDE HEAT PUMP OUTDOOR UNIT AND ASSOCIATED EQUIPMENT PAD, EQUIPMENT RAILS, AND REFRIGERANT PIPING. COORDINATE FINAL LOCATION WITH ALL OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES.
6. PROVIDE KITCHEN HOOD (KH), KITCHEN EXHAUST FAN (KEF), KITCHEN MAKEUP AIR UNIT (KMAU) AND ALL ASSOCIATED SUPPORTS, DUCTWORK, AND PIPING. PROVIDE ROOF CURB FOR KITCHEN EXHAUST FAN AND ALL CUTTING AND PATCHING OF ROOF. REFER TO SCHEDULES, DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE HYDRONIC UNIT HEATER (UH) AND ALL ASSOCIATED PIPING AND SUPPORTS.
8. PROVIDE COMPLETE HYDRONIC BOILER SYSTEM INCLUDING BOILERS, CIRCULATION PUMPS, AIR SEPARATOR, EXPANSION TANK, GLYCOL FILL, AND ALL REQUIRED PIPING, ACCESSORIES, FITTINGS, AND SPECIALTIES. PROVIDE BOILER FLUE AND INTAKE DUCTWORK TO ROOF. PROVIDE EMERGENCY BOILER STOPS. REFER TO BOILER PIPING SCHEMATIC AND DETAILS FOR ADDITIONAL INFORMATION.
9. ALTERNATE #1: PROVIDE SNOW MELT MANIFOLD, SNOW MELT PUMP, AND ALL ASSOCIATED PIPING AND FITTINGS. REFER TO SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
10. PROVIDE CONDENSATE DRAIN PIPING DOWN EXTERIOR WALL AND THROUGH TO EXTERIOR. TERMINATE CONDENSATE DRAIN PIPING WITH HOSE BIBB FITTING.

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EXPIRATION DATE: 08/31/2029

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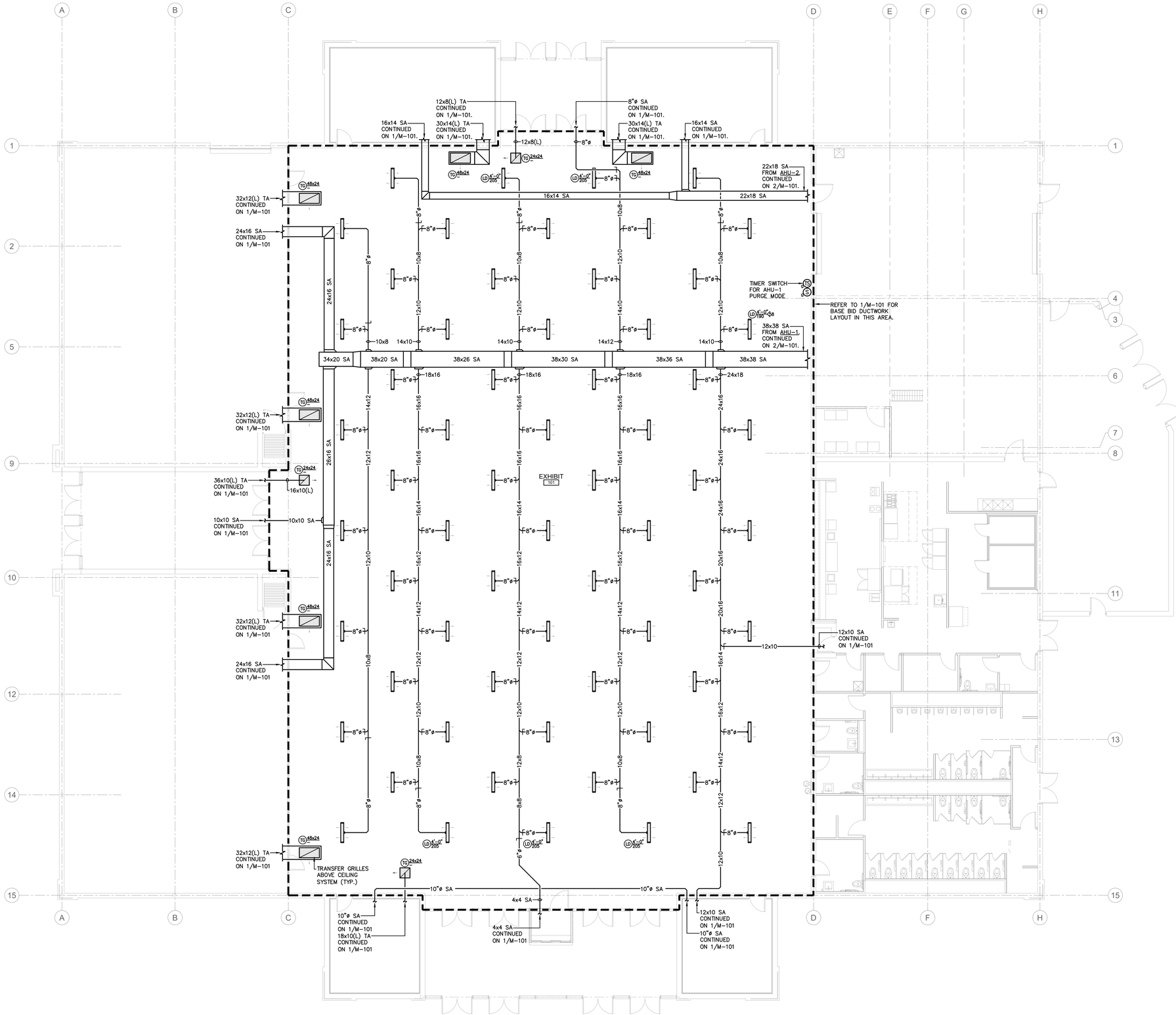
DRAWING TITLE:

MECHANICAL PIPING PLANS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
M-102



1 PARTIAL MECHANICAL DUCTWORK PLAN – ALTERNATE #5
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

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F. PROVIDE FIRE STOPPING FOR ALL RATED FLOOR AND WALL PENETRATIONS.

G. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROOF WARRANTIES.

H. TERMINATE ALL NEW ROOF VENTS A MINIMUM OF 3' ABOVE ROOF MEMBRANE.

I. ALL REFRIGERANT SUCTION AND LIQUID (RS/RL) PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

J. PROVIDE ALL CORE DRILLS AND SAW CUTS AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL LOCATIONS IN FIELD PRIOR TO INSTALLATION. PROVIDE FIRE STOPPING AND DAMPERS AT ALL FLOOR PENETRATIONS AS REQUIRED.

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EXPIRATION DATE: 08/31/2029

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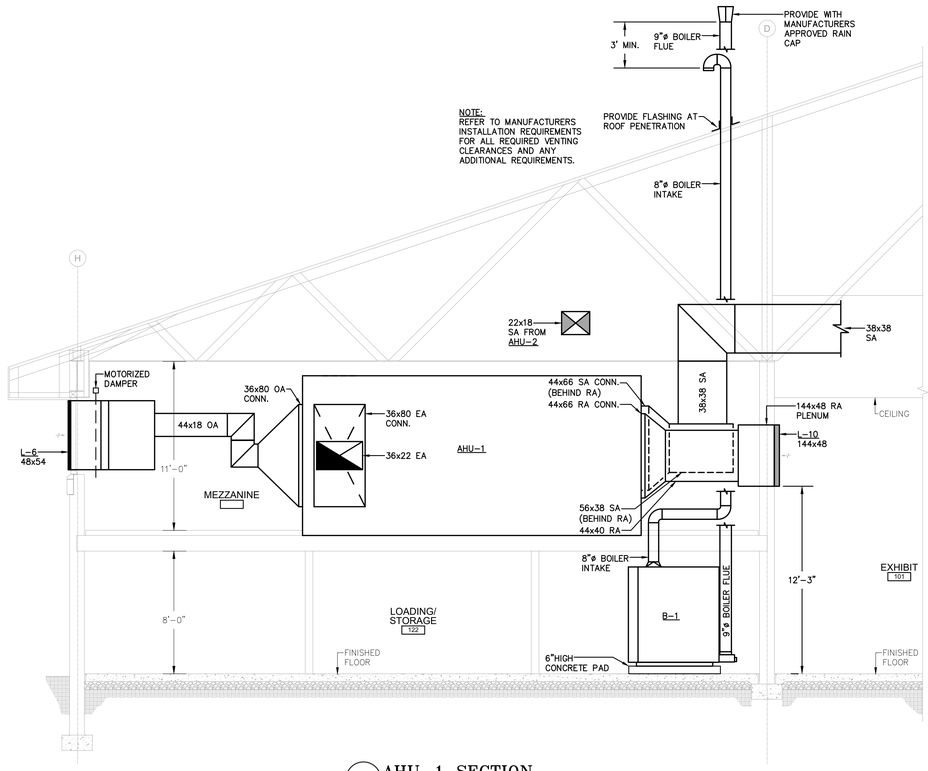
DRAWING TITLE:

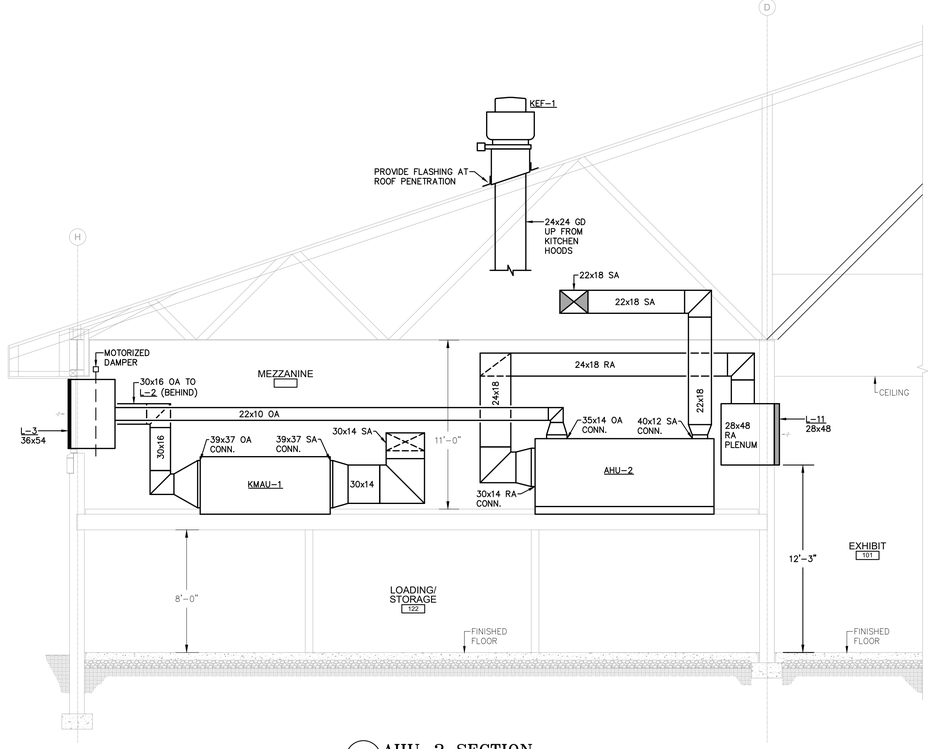
PARTIAL MECHANICAL DUCTWORK PLAN - ALTERNATE

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
M-103



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



2 AHU-2 SECTION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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F. PROVIDE FIRE STOPPING FOR ALL RATED FLOOR AND WALL PENETRATIONS.

G. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROOF WARRANTIES.

H. TERMINATE ALL NEW ROOF VENTS A MINIMUM OF 3' ABOVE ROOF MEMBRANE.

I. ALL REFRIGERANT SUCTION AND LIQUID (RS/RL) PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

J. PROVIDE ALL CORE DRILLS AND SAW CUTS AS REQUIRED. CONTRACTOR SHALL COORDINATE ALL LOCATIONS IN FIELD PRIOR TO INSTALLATION. PROVIDE FIRE STOPPING AND DAMPERS AT ALL FLOOR PENETRATIONS AS REQUIRED.

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DRAWING TITLE:

MECHANICAL SECTIONS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: DGI
PROJECT No: 23-006

DRAWING No.
M-104

ELECTRICAL SYMBOL LIST

#10 — 2(GFI) — PP–1A
120 VOLT CIRCUIT HOMERUN WITH GROUND TO PANEL INDICATED
IF PRESENT INDICATES MINIMUM CONDUCTOR SIZING.
IF NO # IS PRESENT BRANCH CIRCUITING SHALL BE #12AWG.
'GFI' IF PRESENT INDICATES GFI BREAKER.

#10 — PP–1A, 20A,2P, (7,9)
208V 1 OR 3 PHASE CIRCUIT HOMERUN WITH GROUND TO PANEL
SOLID ARROWHEAD INDICATES MULTIPOLE CIRCUIT
IF PRESENT INDICATES MINIMUM CONDUCTOR SIZING.
IF NO # IS PRESENT BRANCH CIRCUITING SHALL BE #12AWG.

2 — #10 HP
277 VOLT SINGLE PHASE CIRCUIT HOMERUN WITH GROUND TO PANEL INDICATED. "#" IF PRESENT INDICATES MINIMUM CONDUCTOR SIZE. IF NO # IS PRESENT, MINIMUM SIZE SHALL BE #12AWG.

HP — 40A–3P (19,21,23)
480 VOLT SINGLE PHASE OR 3 PHASE CIRCUIT HOMERUN WITH GROUND TO PANEL INDICATED. REFER TO DRAWING NOTES FOR WIRE AND CONDUIT SIZES.

BRANCH CIRCUIT HOMERUN, CIRCUIT CONCEALED IN FLOOR

SURFACE MOUNTED 480/277 VOLT, 3 PHASE, 4 WIRE PANELBOARD

SURFACE MOUNTED 120/208 VOLT PANELBOARD

STEP–DOWN TRANSFORMER

CONTRACTOR TO MAKE COMPLETE 120 OR 277 VOLT EQUIPMENT CONNECTION

CONTRACTOR TO MAKE COMPLETE 240 VOLT EQUIPMENT CONNECTION

CONTRACTOR TO MAKE COMPLETE 480 VOLT EQUIPMENT CONNECTION

(M) EQUIPMENT/MOTOR CONNECTION – REFER TO KEYED NOTES ON DRAWING E–100 FOR ADDITIONAL INFORMATION.

(J) OR [JB] JUNCTION BOX – CEILING OR WALL MOUNTED, SIZE PER NEC

[S3]WP F
600 VAC DISCONNECT SWITCH, LEFT NUMERAL INDICATES AMPERE RATING RIGHT NUMERAL INDICATES NO. OF POLES, HEAVY DUTY TYPE, LETTER 'F' INDICATES FUSED. WP INDICATES NEMA 3R ENCLOSURE REQUIRED.

OC H
20 AMP 120 VOLT RATED TAMPER RESISTANT DUPLEX RECEPTACLE +54" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COLOR AS SELECTED BY ARCHITECT 'C' OR 'OC', IF PRESENT, INDICATES RECEPTACLE SHALL BE MOUNTED +6" ABOVE COUNTER BACKSPLASH. 'H', IF PRESENT, INDICATES RECEPTACLE MOUNTED HIGH – COORDINATE MOUNTING HEIGHTS WITH ARCHITECT.

OC GFI
20 AMP 120 VOLT RATED TAMPER RESISTANT GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE +54" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COLOR AS SELECTED BY ARCHITECT 'C' OR 'OC', IF PRESENT, INDICATES RECEPTACLE SHALL BE MOUNTED +6" ABOVE COUNTER BACKSPLASH

GFI WP
20 AMP 120 VOLT RATED TAMPER RESISTANT GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE +54" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COLOR AS SELECTED BY ARCHITECT. "WP" IF PRESENT, INDICATES WEATHER–RESISTANT TYPE GFCI RECEPTACLE WITH CAST–ALUMINUM LOCKABLE WEATHERPROOF–IN–USE COVER: HUBBELL WP826 SERIES OR APPROVED EQUAL.

CONTROLLED DUPLEX RECEPTACLE

TAMPER RESISTANT QUAD RECEPTACLE 20AMP 120 VOLT RATED COLOR AS SELECTED BY ARCHITECT

COORDINATE FINAL MOUNTING HEIGHT A.F.F. WITH OWNER PRIOR TO ROUGH–IN

[DDDV] FLUSH MOUNTED DUAL–SERVICE FLOOR BOX WITH DUPLEX RECEPTACLES, 6–50R RECEPTACLE AND DATA OUTLET COMPARTMENTS. REFER TO POWER PLAN ON E–201 FOR SPECIFICATIONS.

[HDV] FLUSH MOUNTED DUAL–SERVICE FLOOR BOX WITH DUPLEX RECEPTACLES AND DATA OUTLET COMPARTMENTS. SEE DRAWING E–500 FOR PLUG LOAD CONTROL DETAILS. REFER TO POWER PLAN ON E–201 FOR SPECIFICATIONS.

SINGLE POLE TOGGLE SWITCH, 20 AMP RATING, 125/277 VAC

$_3 THREE WAY SWITCH, 20 AMP RATING, 125/277 VAC

$_T THERMAL DISCONNECT SWITCH, TOGGLE TYPE, 120V, 16 AMP

$ 3–KS THREE WAY KEYED SWITCH, 20 AMP RATING, 125/277 VAC

$ PS RAISE LOWER SCREEN SWITCH

$ TV TELEVISION RECEPTACLE SWITCH CONTROLS

▽ H
WALL BOX DATA OUTLET, COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH–IN. PROVIDE 1" CONDUIT W/ BUSHINGS AND PULLSTRING STUBBED INTO I.T. ROOM. 'H', IF PRESENT, INDICATED DATA OUTLET MOUNTED HIGH – COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

(WA) CEILING MOUNTED DATA OUTLET BOX FOR WIRELESS ACCESS POINT, PROVIDE 1" CONDUIT W/ BUSHINGS AND PULLSTRING STUBBED INTO I.T. ROOM.

[TV] WALL BOX TELEVISION. OUTLET, PROVIDE 3/4" EMPTY CONDUIT WITH PULLSTRING AND BUSHING FROM WALL BOX TO I.T. ROOM.

[HDMI] OUTLET BOX FOR HDMI. OUTLET, PROVIDE HDMI JACKS AND CABLES FROM CEILING MOUNTED LOCATION AT PROJECTOR TO WALL MOUNTED LOCATION SHOWN ON PLANS.

[CR] DOOR ACCESS CONTROL CARD READER (BY OWNER'S SECURITY SYSTEMS VENDOR) PROVIDE RECESSED BACK–BOX WITH 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE FOR SYSTEM WIRING.

[ADA] ADA AUTOMATIC DOOR OPERATOR ABOVE DOOR. PROVIDE 120VAC POWER CONNECTION AND CONTROL WIRING FROM PUSH PADDLE. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

[HPB] ADA AUTOMATIC DOOR OPERATOR PUSH PADDLE. PROVIDE BACKBOX WITH 3/4" C. AND CONTROL WIRING TO DOOR OPERATOR ABOVE DOOR. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

$ a,b WALL MOUNTED TOGGLE SWITCH, 20 AMP RATING, 125/277 VAC, SINGLE–POLE, ROMAN NUMERALS INDICATE NUMBER OF GANGS AND SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL.

[S] a DIGITAL LIGHTING, 24VDC, 1–BUTTON WALL SWITCH. SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL IN ROOM. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[D] a DIGITAL LIGHTING, 24VDC, 1–BUTTON, 1–ROCKER DIMMING WALL SWITCH. SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL IN ROOM. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[PB] a,b,c DIGITAL LIGHTING, 24VDC, 4–BUTTON SCENE, 1–ROCKER DIMMING WALL SWITCH. SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL IN ROOM. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[OS] a DIGITAL LIGHTING, 24VDC, 2–BUTTON, DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH. SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL IN ROOM.

[VS] a DIGITAL LIGHTING, 24VDC, 2–BUTTON, DUAL TECHNOLOGY VACANCY SENSOR WALL SWITCH. SMALL CASE LETTERS INDICATE SWITCH LEG CONTROL IN ROOM.

[RS] RELAY PANEL, 24VDC, ON/OFF SWITCH. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[RD] RELAY PANEL, 0–10V DIMMER SWITCH. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

(OS) DIGITAL LIGHTING, 24VDC, DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR.

(OS)HB DIGITAL LIGHTING, 24VDC, DUAL TECHNOLOGY, CEILING MOUNTED HIGH BAY OCCUPANCY SENSOR.

[RC1] DIGITAL LIGHTING, 120/277VAC, 1–RELAY ON/OFF ROOM CONTROLLER. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[DC1] DIGITAL LIGHTING, 120/277VAC, 1–RELAY DIMMING ROOM CONTROLLER. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[DC3] DIGITAL LIGHTING, 120/277VAC, 3–RELAY DIMMING ROOM CONTROLLER. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

[PLC] DIGITAL LIGHTING, 120VAC, 1–RELAY PLUG LOAD ROOM CONTROLLER. SEE DRAWING E–501 FOR ADDITIONAL DETAILS.

(SD) FIRE ALARM DUCT MOUNTED SMOKE DETECTOR

[F] WALL MOUNTED FIRE ALARM HORN/STROBE

F FIRE ALARM VISUAL STROBE UNIT

[F] FIRE ALARM MANUAL PULL STATION

[RT] SMOKE DETECTOR REMOTE TEST STATION

[FR] FIRE ALARM FAN RELAY

[FACP] FIRE ALARM CONTROL PANEL

[FAAP] FIRE ALARM ANNUNCIATOR PANEL

(H) FIRE ALARM SYSTEM HEAT DETECTOR

[DR] FIRE ALARM MAGNETIC DOOR RELEASE

[IM] FIRE ALARM ADDRESSABLE INTERFACE MODULE

(B) ELECTRIC BELL FOR SPRINKLER SERVICE, CONNECTED TO FIRE ALARM SYSTEM

[FS] WATER FLOW SWITCH

[TS] GATE VALVE TAMPER SWITCH

(CO) FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR

F CO CARBON MONOXIDE VISUAL STROBE UNIT

GENERAL DRAWING NOTES:
(APPLY TO ALL DRAWINGS)

A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL AND EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.

B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE CONTRACTORS ESTIMATE THE SAME AS IF HEREIN SPECIFIED OR SHOWN.

C. WITH SUBMISSION OF BID, IT IS MUTUALLY AGREED THE CONTRACTOR HAS INCLUDED THE COST OF ALL REQUIRED ITEMS IN HIS PROPOSAL, AND THAT HE WILL BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE SYSTEM WITHOUT EXTRA COMPENSATION.

D. BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDANT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF SPECIFICATION AND DRAWINGS.

E. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE DONE.

F. THE CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF ALL ACTUAL EQUIPMENT INVOLVED PRIOR TO THE INSTALLATION OF ELECTRICAL SERVICE TO THE SAME.

G. ANY WORK INSTALLED CONTRARY TO, OR WITHOUT CONCURRENCE OF THE OWNER'S REPRESENTATIVE, SHALL BE SUBJECT TO CHANGE AS DIRECTED BY THE OWNER'S REPRESENTATIVE. AND NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR MAKING THE CHANGES.

H. THE CONTRACTOR SHALL TEST ALL NEW SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK. THE CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE SYSTEM AND SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATIONS OF THE SYSTEMS.

I. ALL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LOCAL CODES, AND ORDINANCES.

J. ALL CONDUITS OR EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, AND PARALLEL WITH, THE SURROUNDING WALL AND SHALL CONFORM TO THE FORM OF THE CEILING. NO DIAGONAL RUNS WILL BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT AND TRUE. PAINT RACEWAY, FITTINGS AND SUPPORT TO MATCH EXISTING SURFACES.

K. EQUIPMENT MANUFACTURER NAMES AND MODEL NUMBERS ARE LISTED AS THE BASIS OF DESIGN AND AS A STANDARD FOR CONSTRUCTION AND FEATURES. MANUFACTURERS OF EQUIVALENT EQUIPMENT MAY BE SUBSTITUTED UPON APPROVAL BY THE ENGINEER.

L. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CATALOG CUT SHEETS, AND PRODUCT DATA FOR ALL ELECTRICAL EQUIPMENT AND COMPONENTS TO BE INSTALLED.

M. ALL RECEPTACLES, SWITCHES, ETC. IN RATED WALLS AND CEILINGS MUST BE INSTALLED A MINIMUM OF 24" FROM EACH OTHER OR PROPERLY FIRESTOPPED TO MAINTAIN RATINGS IF WITHIN THE SAME WALL OR CEILING CAVITY. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO MATCH RATING OF WALL AND CEILING CONSTRUCTION. FIRE CAULK ANY PENETRATIONS OF RATED WALLS OR CEILINGS.

N. GUARANTEE THE ENTIRE ELECTRICAL SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE AS COMPLETE BY THE OWNER.

O. PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR ELECTRICAL SYSTEMS INDICATED ON THESE DRAWINGS. THE WORK SHALL BE TESTED AND LEFT COMPLETE AND IN SATISFACTORY OPERATION SUBJECT TO THE APPROVAL OF THE AUTHORITIES AND THE OWNER'S REPRESENTATIVE.

P. ALL CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED CEILINGS AND CONCEALED IN WALLS UNLESS OTHERWISE INDICATED. ALL CONDUITS SHALL RUN PARALLEL AND PERPENDICULAR WITH BUILDING WALLS AND STRUCTURE. CONDUITS CONCEALED IN WALLS SHALL BE INSTALLED VERTICALLY, HORIZONTAL RUNS OF CONDUIT SHALL NOT BE PERMITTED.

Q. CONTRACTOR IS HEREBY CAUTIONED THAT ELECTRIC POWER CHARACTERISTIC (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT IS BASED ON AVAILABLE INFORMATION AT THE TIME OF PROJECT DESIGN. CONTRACTOR MUST VERIFY CHARACTERISTICS FOR EACH PIECE OF NEW EQUIPMENT PRIOR TO ORDERING ELECTRICAL EQUIPMENT. INDICATE VERIFICATION ON SUBMITTALS.

R. LOCATIONS INDICATED FOR NEW LIGHTING FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH NEW BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. FIELD COORDINATE EXACT LOCATIONS AS NEAR AS POSSIBLE TO THE LOCATION INDICATED.

S. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, EXIT SIGNS, ETC. SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE DETECTORS SHALL BE LOCATED 3'–0" MINIMUM FROM HVAC DIFFUSERS, REGISTERS, GRILLES, ETC.

T. ALL NEW CIRCUITING SHALL BE CONCEALED (EXCEPT IN BOILER ROOMS, ELECTRICAL AND MECHANICAL ROOMS). WHERE CONCEALMENT OF CIRCUITING IS DEEMED IMPOSSIBLE FOLLOWING DISCUSSIONS WITH OWNERS REPRESENTATIVE AND ARCHITECT, SURFACE RACEWAYS SHALL BE USED FOR ALL EXPOSED CIRCUITING (SEE SPECIFICATIONS REGARDING USE OF SURFACE RACEWAYS). UNDER NO CIRCUMSTANCES SHALL ANY EMT CONDUIT OR PIPE BE INSTALLED EXPOSED IN EXISTING CLASSROOMS, OFFICES, CORRIDORS OR FINISHED AREAS. ALL SURFACE RACEWAYS SHALL BE PAINTED TO MATCH WALL SURFACE AND SHALL CONTAIN A GREEN INSULATED GROUND CONDUCTOR.

U. CONTRACTOR SHALL REVIEW ALL TRADES CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT AND OTHER CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR CASEWORK LAYOUT, ELEVATIONS, ETC. COORDINATE WITH LOCATIONS OF ELECTRICAL DEVICES AND OUTLETS.

V. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS.

W. CIRCUITING TO DEVICES/EQUIPMENT SHALL BE 2 #12 WITH 1 #12 GROUND (MULTIPLE HOMERUNS IN SAME CONDUIT MAY SHARE SAME EQUIPMENT GROUND) FOR EACH 20 AMPERE CIRCUIT UNLESS OTHERWISE NOTED.

X. CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE SHOWN FOR THE PURPOSE OF CLARIFYING THE GROUPING OF OUTLETS. THE ACTUAL NUMBER ASSIGNED TO THE CIRCUIT IN THE PANELBOARD SHALL SUIT THE BUSSING AND BRANCH CIRCUITING TO THE PANEL. PROVIDE COMPLETE AND ACCURATE TYPEWRITTEN PANEL DIRECTORIES FOR ALL BRANCH CIRCUIT PANELBOARDS.

ELECTRICAL ABBREVIATIONS:

A	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC–FAULT CIRCUIT–INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
DC	DIRECT CURRENT
EM	EMERGENCY
EXIST	EXISTING
ETR	EXISTING TO REMAIN
G,GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
KW	KILOWATT
LV	LOW VOLTAGE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT (UNSWITCHED CIRCUIT)
C OR OC	DEVICE INSTALLED 6" OVER COUNTERTOP BACKSPLASH (FIELD VERIFY EXACT HEIGHT)
SPECS	SPECIFICATIONS
TYP	TYPICAL
UC	DEVICE INSTALLED UNDER COUNTERTOP (FIELD VERIFY EXACT HEIGHT)
V	VOLT
WG	WIRE GUARD
WP	WEATHERPROOF
ø	PHASE

MOUNTING HEIGHTS:

UNLESS OTHERWISE INDICATED OR CALLED FOR, OR BECAUSE OF SPECIAL CONDITIONS, THE MOUNTING HEIGHTS OF ALL OUTLETS SHALL GENERALLY BE AS FOLLOWS:

LOCAL SWITCHES	46" ABOVE FLOOR TO CENTER	RECEPTACLES & SWITCHES OVER COUNTERS	COORDINATE W/ ARCH. DRAWINGS OR HEIGHT AS INDICATED WHERE THE OBSTRUCTED HIGH REACH SHALL NOT EXCEED 48" MAX. FOR A REACH DEPTH OF 20" MAX.; 44" MAX. FOR A REACH DEPTH THAT EXCEEDS 20" BUT NOT MORE THAN 25" MAX.
RECEPTACLES	18" ABOVE FLOOR TO CENTER		
WALL MOUNTED FIXTURES	HEIGHT AS DIRECTED		
MOTOR CONTROLS	48" ABOVE FLOOR TO TOP OF DEVICE	FIRE ALARM PULL STATION	46" ABOVE FLOOR TO ACTIVATING HANDLE OR LEVER.
DISCONNECT AND SAFETY SWITCHES	48" ABOVE FLOOR TO TOP OF DEVICE	COMBINATION FIRE ALARM AUDIO VISUAL UNIT (WALL)	80" ABOVE FLOOR TO CENTER OR 6" BELOW CEILING, WHERE THE LOWER HEIGHT CASE SHALL BE USED.
PANELBOARDS	6'–6" ABOVE FLOOR TO CENTER OF TOP MOST DEVICE HANDLE	FIRE ALARM VISUAL NOTIFICATION UNIT (WALL)	80" ABOVE FLOOR TO CENTER OR 6" BELOW CEILING, WHERE THE LOWER HEIGHT CASE SHALL BE USED, NOT TO EXCEED 96" A.F.F.
EXIT LIGHTS (WALL MOUNTED)	9" ABOVE DOOR HEAD TO CENTER	DUCT SMOKE DETECTOR REMOTE TEST STATION	46" ABOVE FLOOR TO CENTER
		TELEPHONE OUTLET (DESK TYPE) OR COMPUTER OUTLET	18" ABOVE FLOOR TO CENTER
		TELEPHONE OUTLET (WALL)	48" ABOVE FLOOR TO TOP OF PHONE

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

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EXPIRATION DATE: 08/31/2029

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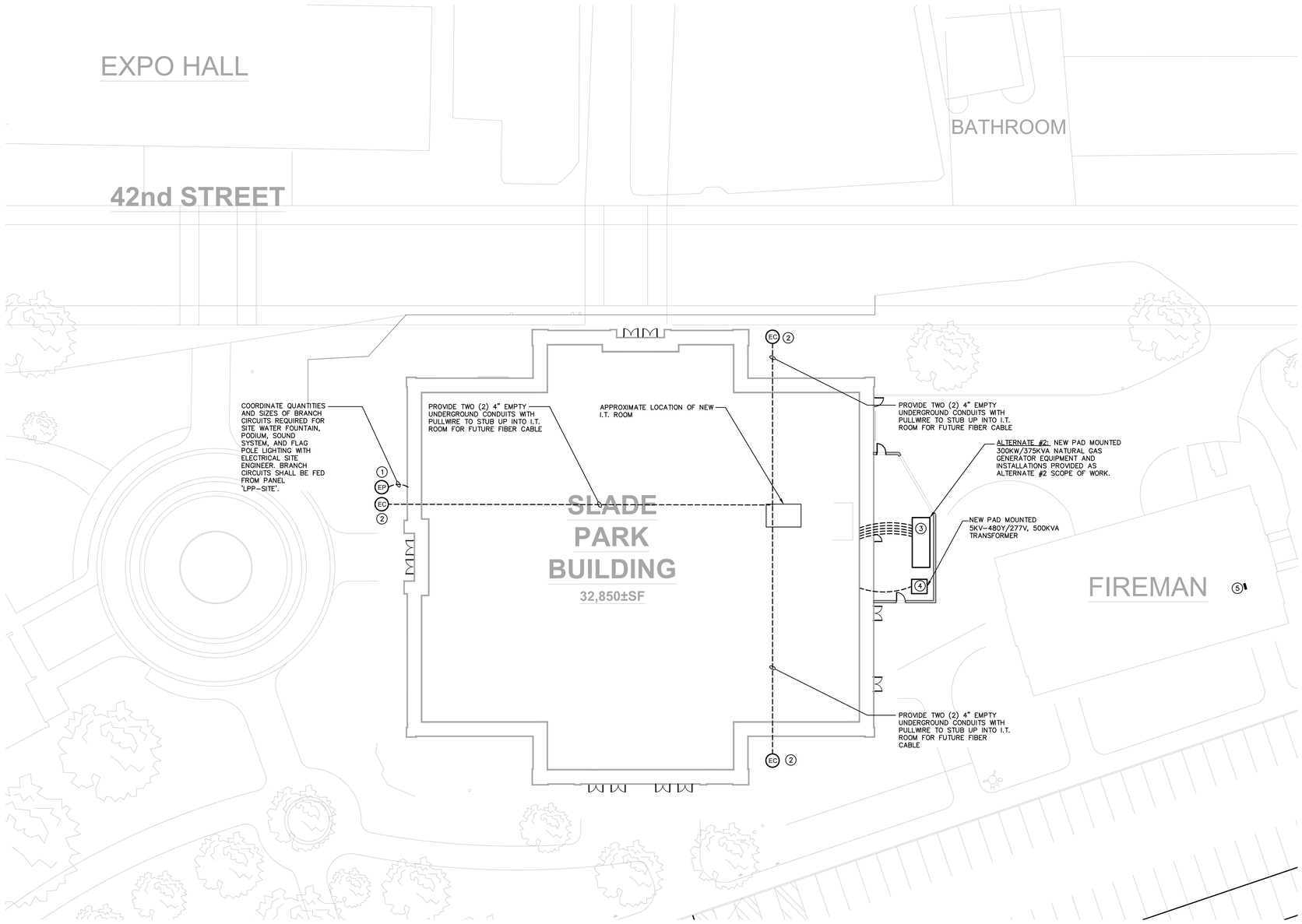
DRAWING TITLE:

ELECTRICAL SYMBOL LEGEND & GENERAL NOTES

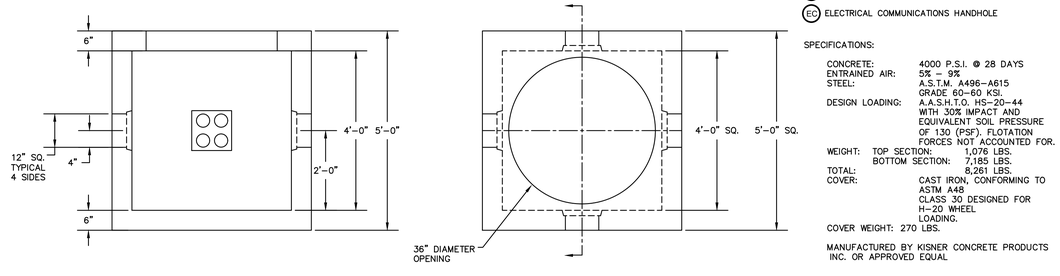
DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: JRG
CHECKED BY: -
PROJECT No: 23-006

DRAWING No.
E-001



1 PARTIAL FAIRGROUNDS SITE PLAN - ELECTRICAL

SCALE: 1" = 20'-0"



SECTION TOP VIEW

SYMBOL:

(EP) ELECTRICAL POWER HANDHOLE

(EC) ELECTRICAL COMMUNICATIONS HANDHOLE

SPECIFICATIONS:

CONCRETE:	4000 P.S.I. @ 28 DAYS
ENTRAINED AIR:	5% - 9%
STEEL:	A.S.T.M. A496-A615 GRADE 60-60 KSI.
DESIGN LOADING:	A.A.S.H.T.O. HS-20-44 WITH 30% IMPACT AND EQUIVALENT SOIL PRESSURE OF 130 (PSF). FLOTATION FORCES NOT ACCOUNTED FOR.
WEIGHT: TOP SECTION:	1,076 LBS.
BOTTOM SECTION:	7,185 LBS.
TOTAL:	8,261 LBS.
COVER:	CAST IRON, CONFORMING TO ASTM A48 CLASS 30 DESIGNED FOR H-20 WHEEL LOADING.

COVER WEIGHT: 270 LBS.

MANUFACTURED BY KISNER CONCRETE PRODUCTS INC. OR APPROVED EQUAL

2 TYPICAL HANDHOLE DETAILS

SCALE: N.T.S.

GENERAL ELECTRICAL SITE PLAN NOTES:

1. PROVIDE ALL TRENCHING, BACKFILL, RE-SEEDING, AND NECESSARY PAVING FOR THE INSTALLATION UNDERGROUND CONDUIT FOR ELECTRICAL SERVICE, SITE GENERATOR, COMMUNICATIONS, ETC TO BUILDING. REFER TO SPECIFICATIONS FOR RE-SEEDING AND PAVING REQUIREMENTS.
2. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC CONDUIT; A MINIMUM OF 36" BELOW GRADE.
3. CONDUIT RUN UNDERGROUND FOR ELECTRICAL SERVICE SHALL NOT BE RUN UNDER ANY BUILDING.
4. CONDUIT EMERGING FROM UNDERGROUND AND IS EXPOSED TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL.
5. PROVIDE NYLON PULLWIRE IN ALL EMPTY CONDUITS.
6. MINIMUM CONDUIT SIZE ON SITE SHALL BE 3/4", UNLESS OTHERWISE NOTED.
7. CONDUCTORS SHALL BE COPPER AND HAVE THHN/THWN INSULATION. ALL WIRE SHALL BE NEW AND HAVE SIZE AND INSULATION TYPE INDICATED ON ITS COVER. ALL WIRE TO HAVE BEEN MANUFACTURED WITHIN ONE YEAR OF INSTALLATION. SHALL BE STRANDED AND MINIMUM OF #10 AWG UNLESS OTHERWISE NOTED.
8. ALL WORK SHALL BE IN ACCORDANCE WITH N.E.C. AND LOCAL CODES. UNDER NO CIRCUMSTANCES SHALL THIS CONTRACTOR DO ANY WORK NOT IN ACCORDANCE WITH THE CODES.
9. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES AND SUPPLIERS OF EQUIPMENT.
10. INSPECT THE SITE PRIOR TO BID.
11. PROVIDE BUSHING FOR ALL OPEN CONDUIT ENDS.
12. PROVIDE FIRESTOPPING AT SMOKE AND FIRE PARTITIONS.
13. CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINE INSTALLATION. COORDINATE WORK WITH APPLICABLE UTILITIES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO BEGIN AND PROCEED WITH CONSTRUCTION.
15. REFER TO CIVIL SITE PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF EXISTING AND NEW WORK. ELECTRICAL SITE PLAN SHOWS GENERAL LAYOUTS, CONFIRM EXACT LOCATIONS AND DIMENSIONS WITH CIVIL SITE PLANS.
16. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD.

ELECTRICAL SITE PLAN NOTES:

(1) NEW HANDHOLE FOR UNDERGROUND POWER BRANCH CIRCUITS FOR SITE WATER FOUNTAIN, AUDIO SYSTEM, FLAG POLE LIGHTS, ETC. REFER TO TYPICAL HANDHOLE DETAIL #2 ON THIS DRAWING. COORDINATE HANDHOLE LOCATION FOR OPTIMAL PLACEMENT AND CABLE INSTALLATIONS.

(2) NEW HANDHOLE FOR UNDERGROUND COMMUNICATION FIBER CABLE TO BUILDING I.T. ROOM, REFER TO TYPICAL HANDHOLE DETAIL #2 ON THIS DRAWING. COORDINATE HANDHOLE LOCATION FOR OPTIMAL PLACEMENT AND CABLE INSTALLATIONS.

(3) ALTERNATE #2: GENERATOR EQUIPMENT AND INSTALLATIONS PROVIDED AS ALTERNATE #2 SCOPE OF WORK. REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 AND GENERATOR PAD DETAIL #1 ON DRAWING E-403 FOR ADDITIONAL INFORMATION.

(4) REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 AND TRANSFORMER PAD & PAD GROUNDING DETAILS #2 AND #3 ON DRAWING E-403 FOR ADDITIONAL INFORMATION.

(5) APPROXIMATE LOCATION OF EXISTING 200A, 240/120VAC, SINGLE-PHASE, THREE-WIRE PANELBOARD. PROVIDE NEW UNDERGROUND FEEDER FROM NEW PARK BUILDING, REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 FOR ADDITIONAL INFORMATION.

FAIRGROUNDS
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ERIE COUNTY FAIR

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No. REVISIONS DATE

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DRAWING TITLE:

PARTIAL SITE PLAN - ELECTRICAL

DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	
DRAWN BY: JRG	
CHECKED BY: -	ES-100
PROJECT No: 23-006	

GENERAL NOTES:

A. EMERGENCY EXIT SIGNS AND EMERGENCY LIGHTS WITH BATTERY BACKUP SHALL BE WIRED AHEAD OF LOCAL AND BUILDING CONTROLS.

B. BRANCH CIRCUITS SHOWN ON THIS PLAN ARE ROUTED TO PANEL 'HLP-1' UNLESS OTHERWISE NOTED.

(#) PLAN NOTES:

(1) ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL #1. REFER TO TYPICAL RELAY PANEL LIGHTING CONTROL DETAIL #1 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.

(2) WIRE EMERGENCY LIGHTING AND EXIT SIGNS INTO LOCAL BRANCH CIRCUIT AHEAD OF ALL LOCAL AND BUILDING CONTROLS, TYPICAL.

(3) CONNECT LOW-VOLTAGE SWITCH TO LIGHTING CONTROL PANEL FOR "ON/OFF/OVERRIDE" CONTROLS. REFER TO DETAIL #1 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.

(4) LIGHTING CONTROL PANEL, PROVIDE WATTSTOPPER LP8 WITH SURFACE MOUNT ENCLOSURE OR APPROVED EQUAL. REFER TO DETAIL #1 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.

(5) EXTERIOR LIGHTING CIRCUIT TO BE CONTROLLED THROUGH LIGHTING CONTROL PANEL AND PHOTOCELL. REFER TO DETAIL #1 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.

(6) EMERGENCY REMOTE HEADS CONNECTED INTO EMERGENCY BATTERY UNIT WITH DC WIRING, SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

(7) DIMMING CONTROLS FOR LIGHT FIXTURES IN EXHIBIT AREA ("a"), ("b"), AND ("c"). REFER TO DETAILS #1 & 3 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.

(8) COORDINATE POWER AND DATA CONDUIT LOCATIONS FOR THE TICKET BOOTH WITH ARCHITECTURAL DRAWINGS.

1 FESTIVAL BUILDING FLOOR PLAN – ELECTRICAL LIGHTING – BASE BID
SCALE: 1/8" = 1'-0"

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DRAWING TITLE:

FLOOR PLAN - ELECTRICAL LIGHTING - BASE BID

DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	E-101
DRAWN BY: JRG	
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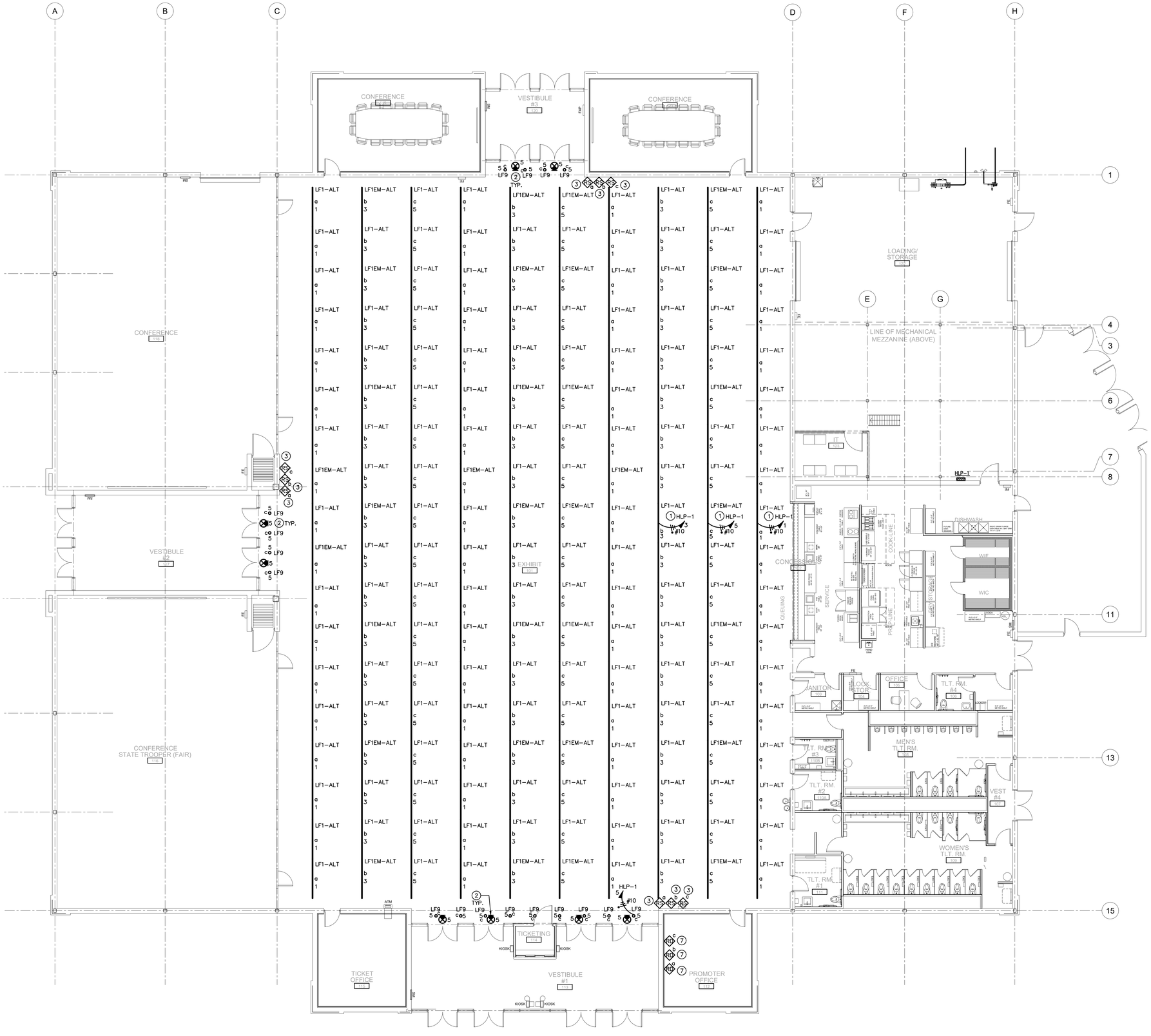
PROJECT No: 23-006	



1 FESTIVAL BUILDING FLOOR PLAN – ELECTRICAL LIGHTING – ALT. #5
SCALE: 1/8" = 1'–0"

GENERAL NOTES:

A. LIGHTING LAYOUTS, FIXTURES, BRANCH CIRCUITS AND CONTROLS SHOWN ON THIS PLAN FOR EXHIBIT AREA 101 ARE TO BE PERFORMED UNDER ALTERNATE BID #5. REFER TO DRAWING E–101 FOR BASE BID SCOPE OF WORK REQUIRED IN ALL OTHER AREAS INCLUDING EXHIBIT 101.

B. EMERGENCY EXIT SIGNS AND EMERGENCY LIGHTS WITH BATTERY BACKUP SHALL BE WIRED AHEAD OF LOCAL AND BUILDING CONTROLS.

C. BRANCH CIRCUITS SHOWN ON THIS PLAN ARE ROUTED TO PANEL "HLP–1" UNLESS OTHERWISE NOTED.

(#) PLAN NOTES:

(1) ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL #1. REFER TO TYPICAL RELAY PANEL LIGHTING CONTROL DETAIL #1 ON DRAWING E–501 FOR ADDITIONAL INFORMATION.

(2) WIRE EMERGENCY LIGHTING AND EXIT SIGNS INTO LOCAL BRANCH CIRCUIT AHEAD OF ALL LOCAL AND BUILDING CONTROLS, TYPICAL.

(3) CONNECT LOW–VOLTAGE SWITCH TO LIGHTING CONTROL PANEL FOR "ON/OFF/OVERRIDE" CONTROLS. REFER TO DETAIL #1 ON DRAWING E–501 FOR ADDITIONAL INFORMATION.

(4) DIMMING CONTROLS FOR LIGHT FIXTURES IN EXHIBIT AREA ("a") AND ("b"). REFER TO DETAILS #1 & 3 ON DRAWING E–501 FOR ADDITIONAL INFORMATION.

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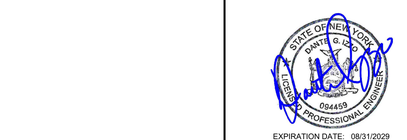

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DRAWING TITLE:

FLOOR PLAN - ELECTRICAL LIGHTING - ALT. #5

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SCALE: AS SHOWN	E-102
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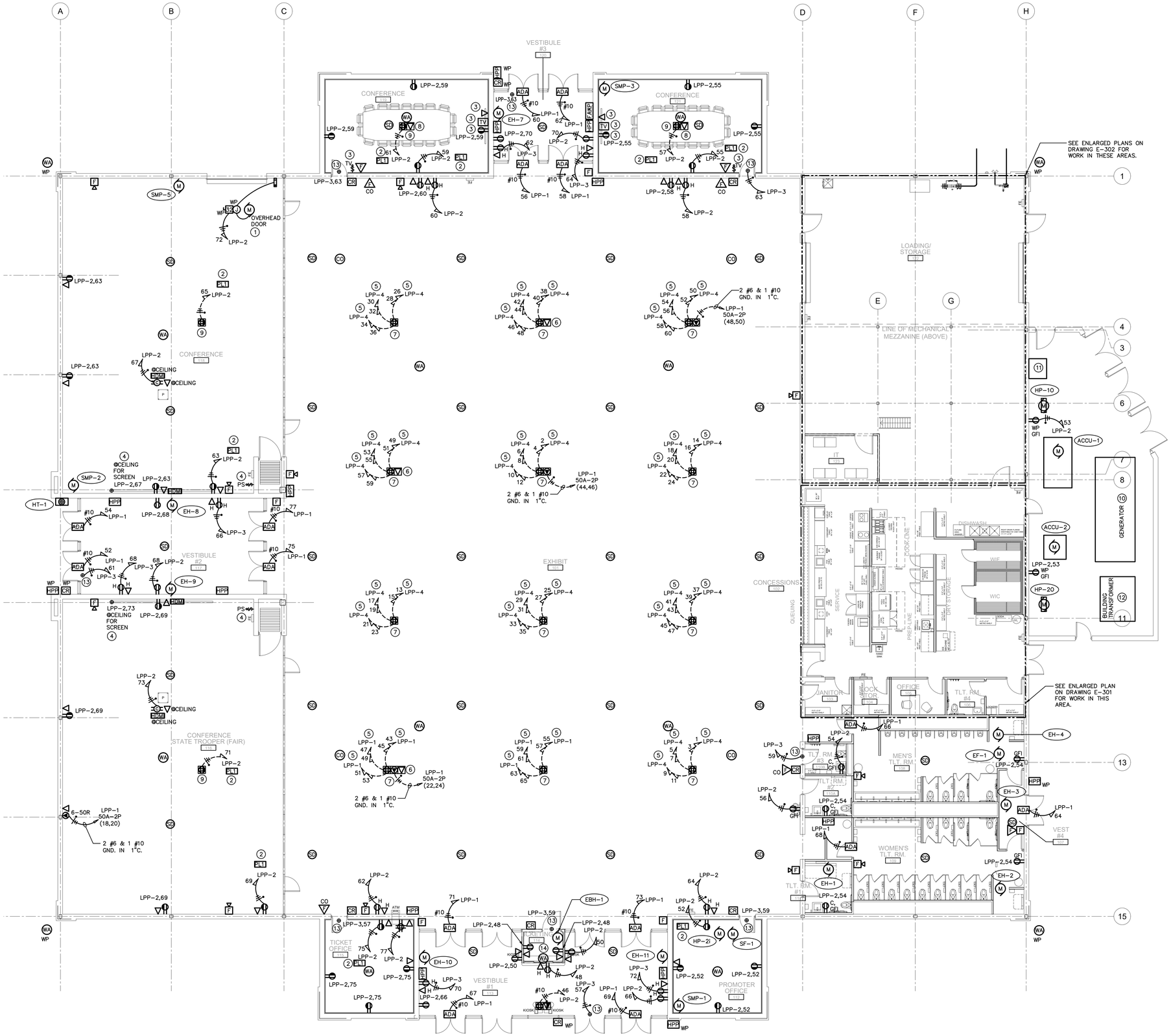
PROJECT No: 23-006	



1 FESTIVAL BUILDING FLOOR PLAN – POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. PROVIDE CONDUIT, WIRING AND CONNECTIONS TO MOTORIZED OVERHEAD DOOR AND ALL MISCELLANEOUS CONNECTIONS INCLUDING BUT NOT LIMITED TO: DOOR MOTOR, PUSHBUTTON STATION, LIMIT SWITCHES, SAFETY EDGE SENSOR, PHOTO-ELECTRIC EYE, ETC. COORDINATE INSTALLATION REQUIREMENTS WITH OVERHEAD DOOR INSTALLER AND MANUFACTURER'S INSTRUCTIONS.
2. SWITCHED RECEPTACLES IN THIS SPACE SHALL BE WIRED FOR AUTOMATIC OCCUPANCY CONTROLS. REFER TO DETAILS #4 AND #5 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.
3. MOUNT ELECTRICAL RECEPTACLE AND ASSOCIATED TELEVISION/DATA OUTLET(S) AT TELEVISION HEIGHT. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. TELEVISION RECEPTACLE SHALL BE WIRED FOR ON/OFF CONTROL BY WALL SWITCH.
4. PROJECTOR SCREEN SHALL BE CONTROLLED WITH RAISE/LOWER SWITCH ON WALL. RECEIVE AND INSTALL RAISE/LOWER SWITCH AND PROVIDE INSTALLATION AND WIRING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. PROVIDE 4 #10 & 1 #10 GND. IN 1"C. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL (NO SHARED NEUTRALS).
6. PROVIDE TWO (2) 1-1/2" CONDUITS WITH PULLSTRING BELOW SLAB FOR DATA TO FLOOR BOX. CONDUITS TO BE ROUTED TO I.T. ROOM.
7. PROVIDE DUAL-SERVICE POWER AND COMMUNICATIONS FLOOR BOX AND COVER WITH HIGH LOAD CAPACITY RATED FOR 20,000 LBS. FLOOR BOX SHALL HAVE 12-GANG COMPARTMENTS FOR POWER AND DATA DEVICES. PROVIDE SIX (6) DUPLEX RECEPTACLES EACH ON A DEDICATED CIRCUIT SHOWN. WHERE SHOWN ON PLAN ALSO PROVIDE NEMA 6-50R RECEPTACLE. PROVIDE FSR, INC. 'FLH6-65-7-B' BOX WITH SCRUB WATER RATED COVER OR APPROVED EQUAL. COVER SHALL MATCH FLOOR SURFACE INSTALLATION, COLOR/FINISH AS SELECTED BY ARCHITECT.
8. PROVIDE ONE (1) 1-1/2" CONDUIT WITH PULLSTRING BELOW SLAB FOR DATA TO FLOOR BOX. CONDUIT TO BE ROUTED TO I.T. ROOM.
9. PROVIDE DUAL-SERVICE POWER AND COMMUNICATIONS FLOOR BOX WITH DIVIDER AND COVER. FLOOR BOX SHALL HAVE 4-GANG COMPARTMENTS FOR POWER AND DATA DEVICES. PROVIDE TWO (2) DUPLEX RECEPTACLES. PROVIDE HUBBELL 'CFB4G30CI' BOX WITH SCRUB WATER RATED COVER OR APPROVED EQUAL. COVER SHALL MATCH FLOOR SURFACE INSTALLATION, COLOR/FINISH AS SELECTED BY ARCHITECT.
10. ALTERNATE #2: GENERATOR EQUIPMENT AND INSTALLATIONS PROVIDED AS ALTERNATE #2 SCOPE OF WORK. REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 AND GENERATOR PAD DETAIL #1 ON DRAWING E-403 FOR ADDITIONAL INFORMATION.
11. PORTABLE GENERATOR DOCKING STATION. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 FOR ADDITIONAL INFORMATION.
12. REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 AND TRANSFORMER PAD & PAD GROUNDING DETAILS #2 AND #3 ON DRAWING E-403 FOR ADDITIONAL INFORMATION.
13. PROVIDE 120VAC BRANCH CIRCUIT ABOVE CEILING IN ACCESSIBLE SPACE FOR CARD READER POWER SUPPLY CONNECTION.
14. COORDINATE POWER AND DATA CONDUIT LOCATIONS FOR THE TICKET BOOTH WITH ARCHITECTURAL DRAWINGS.

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FLOOR PLAN - POWER & SYSTEMS

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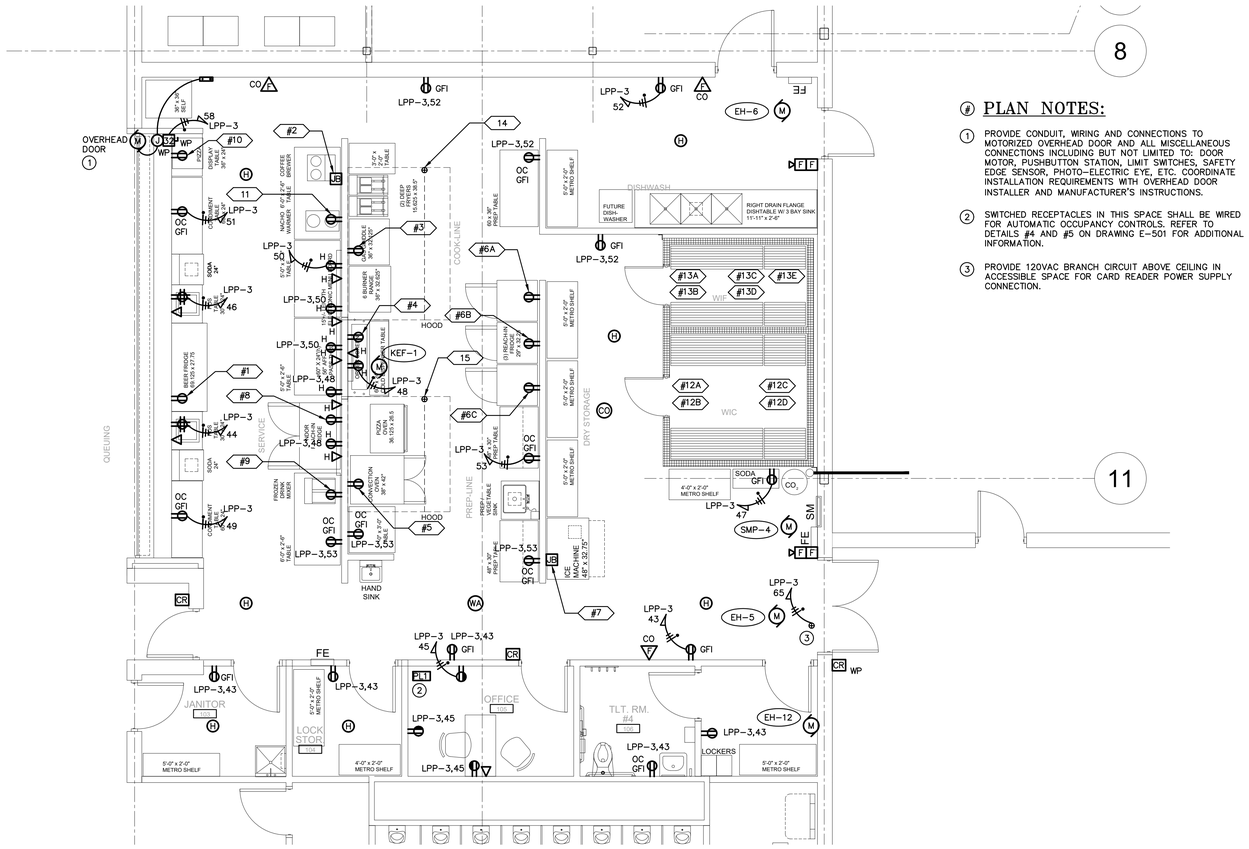
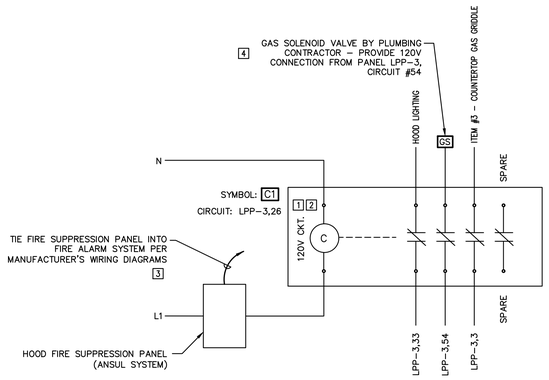
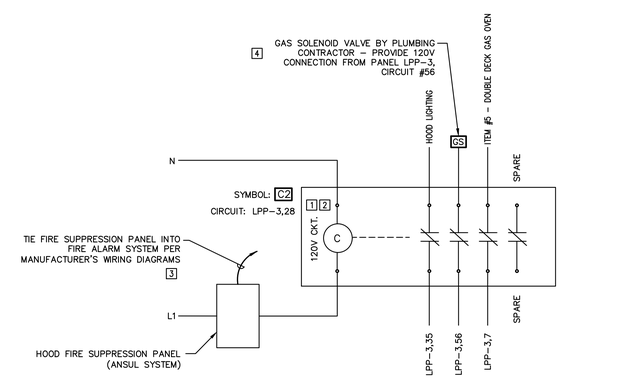
DRAWN BY: JRG	
CHECKED BY: -	
PROJECT No: 23-006	



1 KITCHEN PLAN – POWER & SYSTEMS
SCALE: 1/4" = 1'-0"



2 HOOD #1 POWER SHUTOFF DETAIL
SCALE: NONE



3 HOOD #2 POWER SHUTOFF DETAIL
SCALE: NONE

HOOD POWER SHUTOFF NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL NEW EQUIPMENT SHUT DOWN CONTACTOR 'C1' & 'C2' FOR ALL KITCHEN EQUIPMENT LOCATED UNDER HOOD. CONTACTOR SHALL BE SQUARE 'D' 20A, 4 POLE, 120V RATED CONTACTS, 120V COIL, ELECTRICALLY HELD, NEMA 1 ENCLOSURE, CLASS 8903 OR APPROVED EQUAL. CONTACTOR SHALL BE TIED IN TO FIRE SUPPRESSION SYSTEM PER MANUFACTURER'S WIRING DIAGRAMS FOR EQUIPMENT SHUT DOWN PER NFPA 72.
2. PROVIDE ALL CONNECTIONS TO EQUIPMENT TERMINAL BLOCKS PER EXHAUST HOOD MANUFACTURER'S WIRING DIAGRAMS.
3. PROVIDE FIRE ALARM SYSTEM INTERCONNECTION FOR KITCHEN HOOD FIRE PROTECTION SYSTEM. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, WIRING AND PROGRAMMING/ COMMISSIONING TO MAKE COMPLETE FIRE ALARM SYSTEM CONNECTION(S) PER MANUFACTURERS REQUIREMENTS AND WIRING DIAGRAMS.
4. CONTRACTOR SHALL MAKE ELECTRICAL CONNECTION TO 120V GAS SOLENOID VALVE THROUGH CONTACTOR TO CLOSE SOLENOID VALVE (SHUT OFF GAS TO EQUIPMENT BENEATH HOOD) UPON FIRE SUPPRESSION SYSTEM ACTIVATION. COORDINATE ALL WIRING AND CONNECTIONS TO GAS SOLENOID VALVE WITH MECHANICAL/PLUMBING CONTRACTORS PRIOR TO PERFORMING ANY WORK.

PLAN NOTES:

1. PROVIDE CONDUIT, WIRING AND CONNECTIONS TO MOTORIZED OVERHEAD DOOR AND ALL MISCELLANEOUS CONNECTIONS INCLUDING BUT NOT LIMITED TO: DOOR MOTOR, PUSHBUTTON STATION, LIMIT SWITCHES, SAFETY EDGE SENSOR, PHOTO–ELECTRIC EYE, ETC. COORDINATE INSTALLATION REQUIREMENTS WITH OVERHEAD DOOR INSTALLER AND MANUFACTURER'S INSTRUCTIONS.
2. SWITCHED RECEPTACLES IN THIS SPACE SHALL BE WIRED FOR AUTOMATIC OCCUPANCY CONTROLS. REFER TO DETAILS #4 AND #5 ON DRAWING E–501 FOR ADDITIONAL INFORMATION.
3. PROVIDE 120VAC BRANCH CIRCUIT ABOVE CEILING IN ACCESSIBLE SPACE FOR CARD READER POWER SUPPLY CONNECTION.

FOOD SERVICE EQUIPMENT WIRING SCHEDULE

EQUIP. TAG #	EQUIPMENT DESCRIPTION	LOAD	VOLTAGE/ PHASE	RECEPTACLE NEMA	MOUNTING HEIGHT (A.F.F.)	PANELBOARD SOURCE	CIRCUIT BREAKER SIZE	CIRCUIT NO.	CABLE SIZE & QTY. EACH CONDUIT	CONDUIT SIZE	NOTES: SEE FOOD SERVICE EQUIPMENT GENERAL NOTES AND FOOD SERVICE EQUIPMENT WIRING NOTES ON THIS DRAWING
1	KEGERATOR/BEER DISPENSER	3.5A	120V/1φ	5–15R	18"	LPP–3	20A–1P	1	(2) #12 & (1) #12 GND.	1/2"	7
2	DUAL COFFEE MAKER	27.4A	208V/120V 1φ	DIRECT	48"	LPP–3	35A–2P	2,4	(3) #8 & (1) #10 GND.	3/4"	7,9
3	COUNTERTOP GAS GRIDDLE	4.0A	120V/1φ	5–15R	18"	LPP–3	20A–1P	3	(2) #12 & (1) #12 GND.	1/2"	7
4	COUNTERTOP REFRIGERATED PREP TABLE	4.0A	120V/1φ	5–15R	36"	LPP–3	20A–1P	5	(2) #12 & (1) #12 GND.	1/2"	7
5	DOUBLE DECK GAS CONVECTION OVEN	5.9A	120V/1φ	5–15R	36"	LPP–3	20A–1P	7	(2) #12 & (1) #12 GND.	1/2"	7
6A	REACH–IN FREEZER	396W	120V/1φ	5–15R	18"	LPP–3	20A–1P	9	(2) #12 & (1) #12 GND.	1/2"	7
6B	REACH–IN FREEZER	396W	120V/1φ	5–15R	18"	LPP–3	20A–1P	11	(2) #12 & (1) #12 GND.	1/2"	7
6C	REACH–IN FREEZER	396W	120V/1φ	5–15R	18"	LPP–3	20A–1P	13	(2) #12 & (1) #12 GND.	1/2"	7
7	CUBE ICE MACHINE	18.3MCA	120V/1φ	DIRECT	18"	LPP–3	20A–1P	15	(2) #12 & (1) #12 GND.	1/2"	7,10
8	REACH–IN REFRIGERATOR	396W	120V/1φ	5–15R	18"	LPP–3	20A–1P	17	(2) #12 & (1) #12 GND.	1/2"	7
9	FROZEN DRINK MIXER	8.0A	120V/1φ	5–15R	42"	LPP–3	20A–1P	19	(2) #12 & (1) #12 GND.	1/2"	7
10	PIZZA WARMER	14.0A	120V/1φ	5–20R	42"	LPP–3	20A–1P	21	(2) #12 & (1) #12 GND.	1/2"	7
11	NACHO WARMER	10.0A	120V/1φ	5–15R	42"	LPP–3	20A–1P	23	(2) #12 & (1) #12 GND.	1/2"	7
12A	WALK–IN COOLER LIGHTING	10.0A	120V/1φ	DIRECT	V.I.F.	LPP–3	20A–1P	25	(2) #12 & (1) #12 GND.	1/2"	1,4
12B	WALK–IN COOLER AIR CURTAIN	10.0A	120V/1φ	DIRECT	V.I.F.	LPP–3	20A–1P	27	(2) #12 & (1) #12 GND.	1/2"	1,4
12C	WALK–IN COOLER EVAP COIL	1.9A	208V/1φ	DIRECT	V.I.F.	LPP–3	15A–2P	14,16	(2) #12 & (1) #12 GND.	1/2"	2,4
12D	WALK–IN COOLER COMPRESSOR	7.2A	208V/1φ	DIRECT	V.I.F.	LPP–3	15A–2P	10,12	(2) #12 & (1) #12 GND.	1/2"	3,4,8
13A	WALK–IN FREEZER LIGHTING	10.0A	120V/1φ	DIRECT	V.I.F.	LPP–3	20A–1P	29	(2) #12 & (1) #12 GND.	1/2"	1,4
13B	WALK–IN FREEZER AIR CURTAIN	10.0A	120V/1φ	DIRECT	V.I.F.	LPP–3	20A–1P	31	(2) #12 & (1) #12 GND.	1/2"	1,4
13C	WALK–IN FREEZER DEFROST	5.2A	208V/1φ	DIRECT	V.I.F.	LPP–3	15A–2P	22,24	(2) #12 & (1) #12 GND.	1/2"	1,4
13D	WALK–IN FREEZER EVAP COIL	1.35A	208V/1φ	DIRECT	V.I.F.	LPP–3	15A–2P	18,20	(2) #12 & (1) #12 GND.	1/2"	2,4
13E	WALK–IN FREEZER COMPRESSOR	14.9A	208V/1φ	DIRECT	V.I.F.	LPP–3	30A–2P	6,8	(2) #10 & (1) #10 GND.	3/4"	3,4,8
14	KITCHEN HOOD–1 LIGHTING	10.0A	120V/1φ	DIRECT	V.I.F.	LPP–3	20A–1P	33	(2) #12 & (1) #12 GND.	1/2"	5
15	KITCHEN HOOD–2 LIGHTING	10.0A	120V/1φ	DIRECT	V.I.F.	LPP–3	20A–1P	35	(2) #12 & (1) #12 GND.	1/2"	6

FOOD SERVICE EQUIPMENT GENERAL ELECTRICAL NOTES:

A. ELECTRICAL PLAN SHOWS ROUGH–IN POINTS AND SCHEDULED CONNECTIONS. REFER TO FOOD SERVICE DRAWINGS FOR DIMENSIONED ROUGH–IN.

B. FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING UNLESS OTHERWISE NOTED. COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL CONTRACTOR.

C. FURNISH AND INSTALL ALL SWITCHES, STARTERS, DISCONNECTS, ETC. FOR ALL EQUIPMENT UNLESS OTHERWISE NOTED. ALL DISCONNECTS OR LOCK–OUT DEVICES, STARTERS, ETC., TO MEET N.E.C. AND O.S.H.A. STANDARDS.

D. FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN MICRO–SWITCH AND SOLENOID FUEL SHUT OFF VALVE FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR. COOKING EQUIPMENT LOCATED UNDER FIRE SUPPRESSION HOOD SYSTEM SHALL COMPLY WITH APPLICABLE LOCAL CODE REQUIREMENTS FOR EMERGENCY SHUTDOWN OF EQUIPMENT, SEE OTHER ELECTRICAL PLANS.

E. FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS. INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH.

F. PRE–FABRICATED COLD STORAGE ROOMS ARE FURNISHED COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. INSTALL INTERCONNECTING CONDUIT, WIRING, SEAL–OFFS, SEALANT AND MAKE FINAL CONNECTIONS.

G. FURNISH AND INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.

H. CONTRACTOR TO PROVIDE METHODS FOR GFCI PROTECTION FOR OUTLETS NOTED ON PLANS. TEST AND RE–SET BUTTONS SHALL BE READILY ACCESSIBLE.

FOOD SERVICE EQUIPMENT WIRING SCHEDULE NOTES:

1. INSTALL AND CONNECT WALK–IN REFRIGERATOR/FREEZER LIGHT FIXTURES, LIGHT SWITCHES WITH PILOT LIGHT, DOOR JAMB HEATER, DIGITAL THERMOSTAT, HEATED VENT (FREEZER) AND ANY OTHER REQUIRED MISCELLANEOUS CONNECTIONS. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, ECT. ARE SHIPPED LOOSE WITH COLD STORAGE ROOMS. COORDINATE DEVICE LOCATIONS AND INSTALLATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR, REFER TO EQUIPMENT MANUFACTURERS WIRING DIAGRAMS.
2. CONNECT EVAPORATOR UNIT(S) THROUGH TIME CLOCK SHIPPED LOOSE. MAKE COMPLETE CONNECTION TO ALL MISCELLANEOUS CONTROLS INCLUDING THERMOSTATS, LIQUID SOLENOIDS, ETC. REFER TO EQUIPMENT MANUFACTURERS WIRING DIAGRAM. COORDINATE DEVICE LOCATIONS AND INSTALLATION WITH FOOD SERVICE SUPPLIER.
3. FURNISH AND INSTALL ALL INTERLOCK WIRING BETWEEN CONDENSING UNIT AND EVAPORATOR COILS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. FIELD VERIFY EXACT LOCATIONS WITH KITCHEN EQUIPMENT INSTALLER.
4. SEAL ALL PENETRATIONS THROUGH THE WALK–IN UNITS WITH FOAM PER FOOD SERVICE EQUIPMENT SUPPLIERS REQUIREMENTS.
5. REFER TO HOOD #1 POWER SHUT OFF DETAIL #2 ON THIS DRAWING.
6. REFER TO HOOD #2 POWER SHUT OFF DETAIL #3 ON THIS DRAWING.
7. PROVIDE GFCI CIRCUIT BREAKER.
8. WALK–IN COOLER AND FREEZER COMPRESSORS ARE LOCATED ABOVE WALK–IN UNIT. PROVIDE 20A–2P DISCONNECT SWITCH WITH NEMA 3R ENCLOSRE MOUNTED ON COOLER COMPRESSOR UNIT FOR COOLER AND 30A–2P DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE MOUNTED ON FREEZER COMPRESSOR UNIT FOR FREEZER. CONNECT BRANCH CIRCUIT THROUGH EQUIPMENT DISCONNECT SWITCH.
9. PROVIDE 60A–2P DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE FOR COFFEE MAKER. CONNECT BRANCH CIRCUIT THROUGH EQUIPMENT DISCONNECT SWITCH. COORDINATE EXACT LOCATION FOR DISCONNECT SWITCH IN FIELD, TO BE INSTALLED WITHIN SIGHT OF EQUIPMENT.
10. PROVIDE 30A–1P DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE FOR ICE MAKER. CONNECT BRANCH CIRCUIT THROUGH EQUIPMENT DISCONNECT SWITCH. COORDINATE EXACT LOCATION FOR DISCONNECT SWITCH IN FIELD, TO BE INSTALLED WITHIN SIGHT OF EQUIPMENT.

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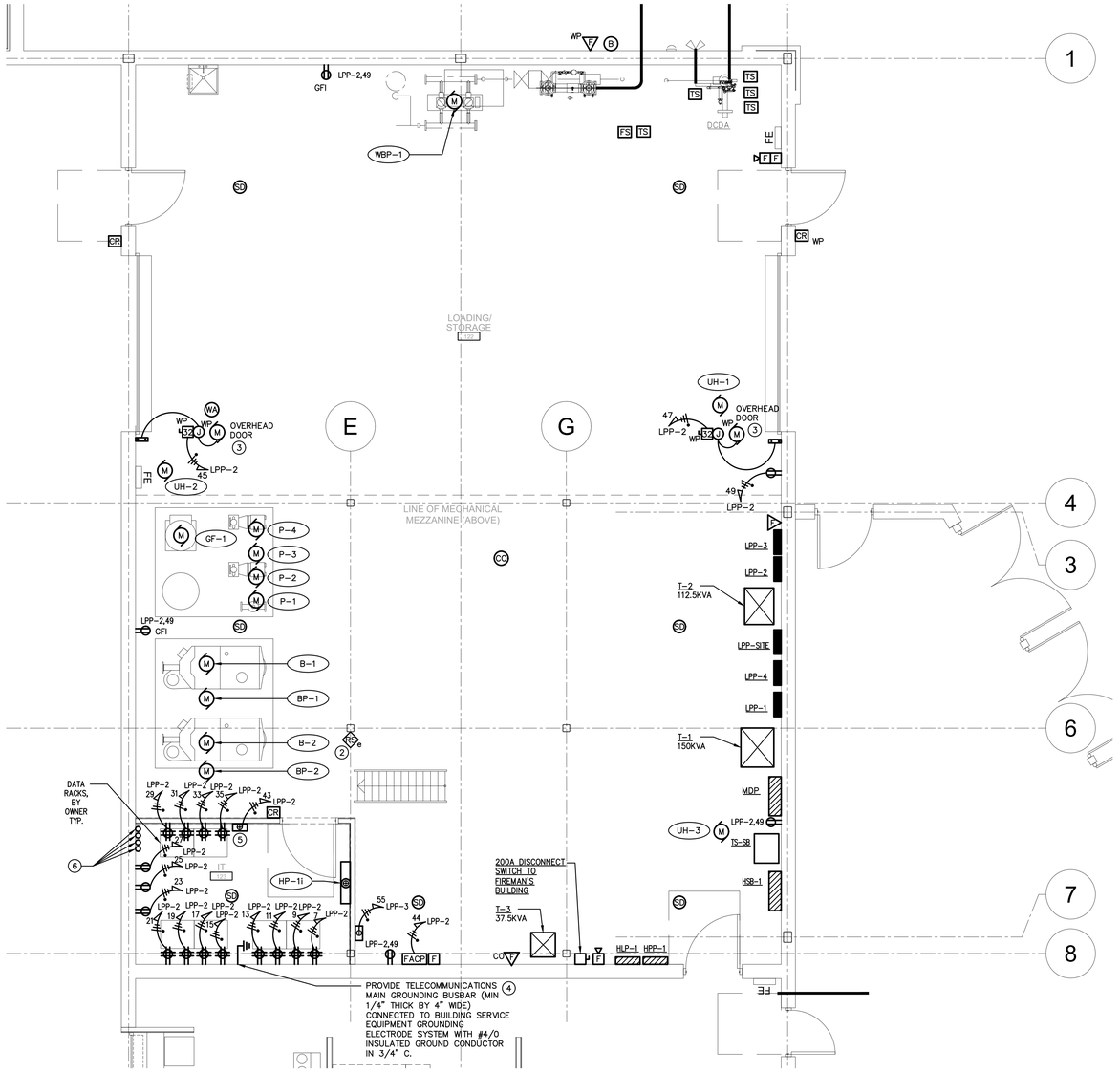
DRAWING TITLE:

ENLARGED FLOOR PLAN - KITCHEN - POWER & SYSTEMS

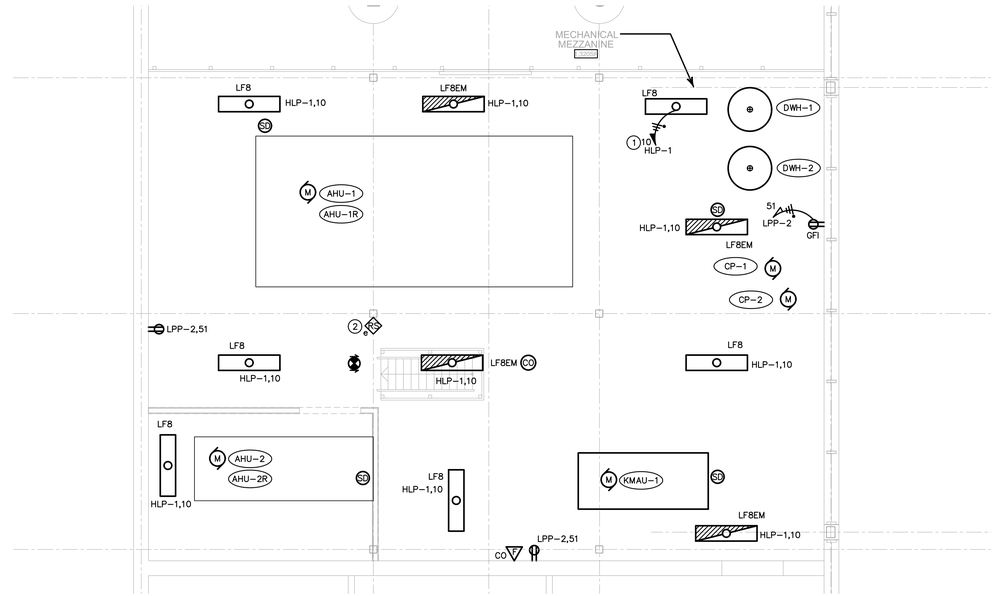
DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	E-301
DRAWN BY: JRG	
CHECKED BY: -	
PROJECT No: 23-006	



1 LOADING/STORAGE & BELOW MEZZANINE PLAN – POWER & SYSTEMS
SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL #1. REFER TO TYPICAL RELAY PANEL LIGHTING CONTROL DETAIL #1 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.
2. CONNECT LOW-VOLTAGE SWITCH TO LIGHTING CONTROL PANEL FOR "ON/OFF/OVERRIDE" CONTROLS. REFER TO DETAIL #1 ON DRAWING E-501 FOR ADDITIONAL INFORMATION.
3. PROVIDE CONDUIT, WIRING AND CONNECTIONS TO MOTORIZED OVERHEAD DOOR AND ALL MISCELLANEOUS CONNECTIONS INCLUDING BUT NOT LIMITED TO: DOOR MOTOR, PUSHBUTTON STATION, LIMIT SWITCHES, SAFETY EDGE SENSOR, PHOTO-ELECTRIC EYE, ETC. COORDINATE INSTALLATION REQUIREMENTS WITH OVERHEAD DOOR INSTALLER AND MANUFACTURER'S INSTRUCTIONS.
4. PROVIDE CHATSWORTH PRODUCTS '40153-020' SERIES OR APPROVED EQUAL GROUND BUS BAR. ROUTE GROUND CONDUCTOR TO MAIN GROUNDING ELECTRODE SYSTEM GROUND BAR SERVING SERVICE ENTRANCE EQUIPMENT.
5. PROVIDE FIRE ALARM SYSTEM INTERCONNECTION FOR I.T. ROOM CLEAN AGENT SUPPRESSION SYSTEM. PROVIDE ALL EQUIPMENT, MATERIALS, WIRING AND PROGRAMMING/COMMISSIONING TO MAKE COMPLETE FIRE ALARM SYSTEM CONNECTION(S) PER MANUFACTURER'S REQUIREMENTS AND WIRING DIAGRAMS.
6. PROVIDE FOUR (4) 4" EMPTY CONDUITS STUBBED UP INTO I.T. ROOM, ROUTED UNDERGROUND TO HANDHOLES ON SITE FOR FUTURE FIBER CABLE. TWO (2) CONDUITS SHALL BE ROUTED TO THE SOUTH SIDE AND TWO (2) CONDUITS SHALL BE ROUTED TO THE NORTH SIDE. SEE SITE PLAN FOR ADDITIONAL INFORMATION. PROVIDE PULLWIRES IN EACH EMPTY CONDUIT.



2 UPPER MEZZANINE PLAN – POWER & SYSTEMS
SCALE: 1/4" = 1'-0"

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

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DRAWING TITLE:

ENLARGED FLOOR PLAN - LOADING/STORAGE - POWER & SYSTEMS

DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	E-302
DRAWN BY: JRG	
CHECKED BY: -	
PROJECT No: 23-006	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT/MOTOR DATA								SOURCE PROTECTION DEVICE				BRANCH CIRCUIT CONDUIT & WIRE	DISCONNECT SWITCH						REFERENCE NOTES
(XXX-1) EQUIPMENT DESIGNATION		LOCATION	HP OR KW	FLA	MCA	PHASE	VOLTS	BREAKER	POLES	PANELBOARD OR MCC	CIRCUIT NO.	QUANTITIES AND SIZE	FUSE SIZE	TYPE FUSED (F) OR NON-FUSED (NF)	LOCATION AT UNIT	LOCATION INTEGRAL	SIZE NEMA ENCL.	SIZE RATING	
ACCU-1	AIR COOLED CONDENSING UNIT-1	OUTDOOR AT GRADE	–	83.7	91.1	3	480	110A	3	HSB-1	8, 10, 12	(3) #2 & (1) #8 GND IN 1-1/4" C.			X				8
ACCU-2	AIR COOLED CONDENSING UNIT-2	OUTDOOR AT GRADE	–	17.3	18.4	3	480	25A	3	HSB-1	20, 22, 24	(3) #10 & (1) #10 GND IN 3/4" C.			X				8
AHU-1	AIR HANDLING UNIT-1	MEZZANINE MECH ROOM	–	45.9	50.5	3	480	60A	3	HSB-1	14, 16, 18	(3) #4 & (1) #10 GND IN 1-1/4" C.							1,2,8
AHU-1R	AIR HANDLING UNIT-1 RECEPTACLE	MEZZANINE MECH ROOM	–	–	–	1	120	20A	1	LPP-2	4	(2) #12 & (1) #12 GND IN 1/2" C.							11
AHU-2	AIR HANDLING UNIT-2	MEZZANINE MECH ROOM	–	4.3	5.4	3	480	15A	3	HSB-1	26, 28, 30	(3) #12 & (1) #12 GND IN 1/2" C.							1,2,8
AHU-2R	AIR HANDLING UNIT-2 RECEPTACLE	MEZZANINE MECH ROOM	–	–	–	1	120	20A	1	LPP-2	4	(2) #10 & (1) #10 GND IN 3/4" C.							11
HP-1O	HEAT PUMP-1 OUTDOOR UNIT	OUTDOOR AT GRADE	–	–	9.0	1	208	15A	2	LPP-1	13, 15	(2) #10 & (1) #10 GND IN 3/4" C.		NF	X		3R	30A-2P	7
HP-1I	HEAT PUMP-1 INDOOR UNIT	IT CLOSET	INDOOR UNIT FED FROM OUTDOOR UNIT									(2) #10 & (1) #10 GND IN 3/4" C.		NF	X		1	30A-2P	7
HP-2O	HEAT PUMP-2 OUTDOOR UNIT	OUTDOOR AT GRADE	–	–	22.7	1	208	25A	2	LPP-1	17, 19	(2) #10 & (1) #10 GND IN 3/4" C.		NF	X		3R	30A-2P	7
HP-2I	HEAT PUMP-2 INDOOR UNIT	OFFICE #112	5KW	23.0	–	1	208	30A	2	LPP-1	21, 23	(2) #10 & (1) #10 GND IN 3/4" C.		NF	X		1	30A-2P	7
UH-1	UNIT HEATER-1	LOADING/MECHANICAL ROOM	1/4 HP	5.8	–	1	120	15A	1	LPP-2	14	(2) #12 & (1) #12 GND IN 1/2" C.							3
UH-2	UNIT HEATER-2	LOADING/MECHANICAL ROOM	1/4 HP	5.8	–	1	120	15A	1	LPP-2	16	(2) #12 & (1) #12 GND IN 1/2" C.							3
UH-3	UNIT HEATER-3	LOADING/MECHANICAL ROOM	1/4 HP	5.8	–	1	120	15A	1	LPP-2	18	(2) #12 & (1) #12 GND IN 1/2" C.							3
KMAU-1	KITCHEN MAKEUP AIR UNIT-1	MEZZANINE MECH ROOM	–	–	4.0	3	480	15A	3	HSB-1	19, 21, 23	(3) #12 & (1) #12 GND IN 1/2" C.							3
KEF-1	KITCHEN EXHAUST FAN-1	KITCHEN	2 HP	4.7	6	3	480	15A	3	HSB-1	13, 15, 17	(3) #12 & (1) #12 GND IN 1/2" C.							3
EF-1	EXHAUST FAN-1	BATHROOMS	1/2 HP	6.4	8	1	120	15A	1	LPP-2	20	(2) #12 & (1) #12 GND IN 1/2" C.							3
EBH-1	ELECTRIC BASEBOARD HEATER-1	TICKETING #114	750W	6.3	–	1	120	15A	1	LPP-2	1	(2) #10 & (1) #10 GND IN 3/4" C.							8
B-1	BOILER-1	LOADING/STORAGE MECH SPACE	–	4.5	5.6	3	208	15A	3	LPP-1	25, 27, 29	(3) #12 & (1) #12 GND IN 1/2" C.		NF	X		1	30A-3P	7
B-2	BOILER-2	LOADING/STORAGE MECH SPACE	–	4.5	5.6	3	208	15A	3	LPP-1	31, 33, 35	(3) #12 & (1) #12 GND IN 1/2" C.		NF	X		1	30A-3P	7
BP-1	BOILER PUMP-1	LOADING/STORAGE MECH SPACE	3 HP	11.0	–	3	208	20A	3	LPP-1	2, 4, 6	(3) #10 & (1) #10 GND IN 3/4" C.		NF	X		1	30A-3P	7
BP-2	BOILER PUMP-2	LOADING/STORAGE MECH SPACE	3 HP	11.0	–	3	208	20A	3	LPP-1	8, 10, 12	(3) #10 & (1) #10 GND IN 3/4" C.		NF	X		1	30A-3P	7
P-1	PUMP-1	LOADING/STORAGE MECH SPACE	3 HP	4.8	–	3	480	15A	3	HPP-1	43, 45, 47	(3) #10 & (1) #10 GND IN 3/4" C.							10
P-2	PUMP-2	LOADING/STORAGE MECH SPACE	3 HP	4.8	–	3	480	15A	3	HPP-1	49, 51, 53	(3) #10 & (1) #10 GND IN 3/4" C.							10
P-3	PUMP-3	LOADING/STORAGE MECH SPACE	1 HP	2.1	–	3	480	15A	3	HPP-1	44, 46, 48	(3) #10 & (1) #10 GND IN 3/4" C.							10,12
P-4	PUMP-4	LOADING/STORAGE MECH SPACE	1 HP	2.1	–	3	480	15A	3	HPP-1	50, 52, 54	(3) #10 & (1) #10 GND IN 3/4" C.							10,12
SMP-1	SNOW MELT PUMP-1	OFFICE #112	187W	1.6	–	1	120	15A	1	LPP-2	22	(2) #10 & (1) #10 GND IN 3/4" C.							10,12
SMP-2	SNOW MELT PUMP-2	CONFERENCE ROOM #118	187W	1.6	–	1	120	15A	1	LPP-2	24	(2) #10 & (1) #10 GND IN 3/4" C.							10,12
SMP-3	SNOW MELT PUMP-3	CONFERENCE ROOM #121	106W	0.9	–	1	120	15A	1	LPP-2	26	(2) #10 & (1) #10 GND IN 3/4" C.							10,12
SMP-4	SNOW MELT PUMP-4	KITCHEN	106W	0.9	–	1	120	15A	1	LPP-2	28	(2) #10 & (1) #10 GND IN 3/4" C.							10,12
SMP-5	SNOW MELT PUMP-5	CONFERENCE ROOM #118	187W	1.6	–	1	120	15A	1	LPP-2	30	(2) #10 & (1) #10 GND IN 3/4" C.							10,12
GF-1	GLYCOL FILL STATION-1	LOADING/STORAGE MECH SPACE	1/3 HP	7.2	–	1	120	15A	1	LPP-2	3	(2) #12 & (1) #12 GND IN 1/2" C.							13
SF-1	SUPPLY FAN-1	OFFICE #112	37W	–	–	1	120	15A	1	LPP-2	5	(2) #10 & (1) #10 GND IN 3/4" C.							8
EH-1	ELECTRIC HEATER-1	TOILET ROOM #111	2KW	2.4	–	3	480	15A	3	HPP-1	1, 3, 5	(3) #12 & (1) #12 GND IN 1/2" C.							3
EH-2	ELECTRIC HEATER-2	WOMENS TOILET #108	4KW	4.8	–	3	480	15A	3	HPP-1	7, 9, 11	(3) #12 & (1) #12 GND IN 1/2" C.							3
EH-3	ELECTRIC HEATER-3	VESTIBULE #107	5KW	6.1	–	3	480	15A	3	HPP-1	13, 15, 17	(3) #12 & (1) #12 GND IN 1/2" C.							3
EH-4	ELECTRIC HEATER-4	MENS TOILET #109	4KW	4.8	–	3	480	15A	3	HPP-1	19, 21, 23	(3) #12 & (1) #12 GND IN 1/2" C.							3
EH-5	ELECTRIC HEATER-5	CONCESSIONS #102	5KW	6.1	–	3	480	15A	3	HPP-1	25, 27, 29	(3) #12 & (1) #12 GND IN 1/2" C.							3
EH-6	ELECTRIC HEATER-6	CONCESSIONS #102	5KW	6.1	–	3	480	15A	3	HPP-1	31, 33, 35	(3) #12 & (1) #12 GND IN 1/2" C.							3
EH-7	ELECTRIC HEATER-7	VESTIBULE #120	10KW	15.4	–	3	480	20A	3	HPP-1	2, 4, 6	(3) #10 & (1) #10 GND IN 3/4" C.							3
EH-8	ELECTRIC HEATER-8	VESTIBULE #117	10KW	15.4	–	3	480	20A	3	HPP-1	8, 10, 12	(3) #10 & (1) #10 GND IN 3/4" C.							3
EH-9	ELECTRIC HEATER-9	VESTIBULE #117	10KW	15.4	–	3	480	20A	3	HPP-1	14, 16, 18	(3) #10 & (1) #10 GND IN 3/4" C.							3
EH-10	ELECTRIC HEATER-10	VESTIBULE #113	10KW	15.4	–	3	480	20A	3	HPP-1	20, 22, 24	(3) #10 & (1) #10 GND IN 3/4" C.							3
EH-11	ELECTRIC HEATER-11	VESTIBULE #113	10KW	15.4	–	3	480	20A	3	HPP-1	26, 28, 30	(3) #10 & (1) #10 GND IN 3/4" C.							3
EH-12	ELECTRIC HEATER-12	STAFF #106A	1KW	8.3	–	1	120	20A	1	LPP-3	60	(2) #10 & (1) #10 GND IN 3/4" C.							3
DWH-1	DOMESTIC WATER HEATER-1	LOADING/STORAGE MECH SPACE	–	5.0	–	1	120	20A	1	LPP-2	6	(2) #12 & (1) #12 GND IN 1/2" C.		NF	X		1	20A-1P	5
DWH-2	DOMESTIC WATER HEATER-2	LOADING/STORAGE MECH SPACE	–	5.0	–	1	120	20A	1	LPP-2	8	(2) #12 & (1) #12 GND IN 1/2" C.		NF	X		1	20A-1P	5
CP-1	CIRCULATION PUMP-1	LOADING/STORAGE MECH SPACE	107W	1.0	–	1	120	15A	1	LPP-2	10	(2) #12 & (1) #12 GND IN 1/2" C.							8
CP-2	CIRCULATION PUMP-2	LOADING/STORAGE MECH SPACE	103W	0.9	–	1	120	15A	1	LPP-2	12	(2) #12 & (1) #12 GND IN 1/2" C.							8
WBP-1	WATER BOOSTER PUMP-1	LOADING/STORAGE MECH SPACE	7.5 HP	11.0	–	3	480	20A	3	HSB-1	25, 27, 29	(3) #10 & (1) #10 GND IN 3/4" C.							3
HT-1	HEAT TRACE-1	OUTSIDE VESTIBULE #2	8.0W/FT.	–	–	1	208	20A	2	LPP-1	14, 16	(2) #10 & (1) #10 GND IN 3/4" C.							14

WIRING SCHEDULE GENERAL NOTE

A. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERES, ETC.) OF MECHANICAL EQUIPMENT AGAINST APPROVED MANUFACTURER SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN.

B. CONTRACTOR TO PROVIDE HACR TYPE CIRCUIT BREAKERS.

WIRING SCHEDULE REFERENCE NOTES

1. CONTRACTOR TO PROVIDE DUCT TYPE FIRE ALARM SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTS IN ACCORDANCE WITH MFGR'S INSTRUCTIONS. PROVIDE ASSOCIATED INTERFACE MODULES, SHUTDOWN RELAYS & REMOTE TEST STATION. REMOTE TEST STATION SHALL BE LOCATED +/- 6" BELOW CEILING (8'-6" ABOVE FLOOR MAX.) AND IN CLOSE PROXIMITY TO THE DETECTOR. PROVIDE ALL REQUIRED FIRE ALARM SYSTEM WIRING TO THE MECHANICAL EQUIPMENT CONTROLS FOR PROPER UNIT SHUTDOWN AND RE-START OPERATION IN ACCORDANCE WITH NFPA REQUIREMENTS. FIELD COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
2. CONTRACTOR TO PROVIDE FIRE ALARM FAN SHUTDOWN RELAYS. PROVIDE ALL REQUIRED FIRE ALARM SYSTEM WIRING TO THE MECHANICAL EQUIPMENT CONTROLS FOR PROPER UNIT SHUTDOWN AND RE-START OPERATION IN ACCORDANCE WITH NFPA REQUIREMENTS. FIELD COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
3. CONTRACTOR TO PROVIDE CONNECTION TO FACTORY INSTALLED DISCONNECT SWITCH PROVIDED BY MECHANICAL EQUIPMENT INSTALLER. COORDINATE CONDUIT LOCATIONS WITH MECHANICAL EQUIPMENT INSTALLER.
4. PROVIDE SINGLE PHASE BRANCH CIRCUIT CONDUIT AND WIRING FROM THE OUTDOOR CONDENSING UNIT TO THE DISCONNECT SWITCH OF THE ASSOCIATED INDOOR SPLIT SYSTEM EVAPORATOR AND INLINE CONDENSATE PUMP. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO PERFORMING WORK.
5. PROVIDE MOTOR HORSEPOWER RATED DISCONNECT SWITCH WITH LOCKED IN THE "OFF" POSITION ENCLOSURE. HUBBELL #HBL1379 OR APPROVED EQUAL. FIELD COORDINATE LOCATIONS AND CONNECTION REQUIREMENTS WITH MECHANICAL EQUIPMENT INSTALLER.
6. CONTRACTOR SHALL PROVIDE FUSES AND/OR MOTOR STARTER THERMAL ELEMENTS PER MOTOR NAMEPLATE DATA OR UNIT MANUFACTURERS RECOMMENDATIONS.
7. PROVIDE A FUSED OR NON-FUSED DISCONNECT SWITCH PER SCHEDULE. PROVIDE WEATHER PROOF FOR OUTDOOR APPLICATIONS. MOUNT SWITCH ON MECHANICAL EQUIPMENT OR NEAREST WALL SPACE WITHIN SIGHT OF EQUIPMENT AS RECOMMENDED BY MECHANICAL EQUIPMENT MANUFACTURER. IF UNIT MOUNTING IS NOT POSSIBLE, PROVIDE UNISTRUT TYPE MOUNTING BRACKET AND THE NECESSARY SUPPORT HARDWARE REQUIRED TO PROPERLY MOUNT SWITCH. MAKE POWER CONNECTION TO EQUIPMENT THRU DISCONNECT SWITCH. FIELD COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
8. RECEIVE AND INSTALL DISCONNECT SWITCH. MOUNT SWITCH ON MECHANICAL EQUIPMENT OR NEAREST WALL SPACE WITHIN SIGHT OF EQUIPMENT AS RECOMMENDED BY MECHANICAL EQUIPMENT MANUFACTURER. MAKE POWER CONNECTION TO EQUIPMENT THRU DISCONNECT SWITCH. FIELD COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
9. PROVIDE 120VAC BRANCH CIRCUIT CONDUIT AND WIRING FOR MOTORIZED DAMPER.
10. RECEIVE AND INSTALL VARIABLE FREQUENCY DRIVE (VFD) WITH LOCKABLE DISCONNECT SWITCH. MOUNT VFD/DISCONNECT ON MECHANICAL EQUIPMENT OR NEAREST WALL SPACE WITHIN SIGHT OF EQUIPMENT AS RECEOMMENDED BY MECHANICAL EQUIPMENT MANUFACTURER. MAKE POWER CONNECTION TO EQUIPMENT THRU VFD/DISCONNECT SWITCH. FIELD COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
11. PROVIDE 120VAC BRANCH CIRCUIT TO FACTORY INSTALLED EQUIPMENT GFI RECEPTACLE.
12. EQUIPMENT PROVIDED AND INSTALLATIONS PERFORMED AS ALTERNATE #1.
13. PROVIDE GFI TYPE DUPLEX RECEPTACLE FOR EQUIPMENT NOTED.
14. PROVIDE 20A-2P GFI TYPE CIRCUIT BREAKER TO FEED HEAT TRACE EQUIPMENT, INSTALLATION TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

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DRAWING TITLE:
MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: JRG
CHECKED BY: -
PROJECT No: 23-006

DRAWING No.
E-401

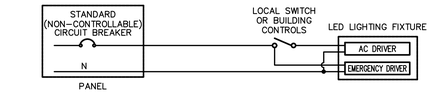
LIGHTING FIXTURE SCHEDULE

[REFER TO LIGHTING FIXTURE SCHEDULE GENERAL NOTES ON THIS DRAWING FOR ADDITIONAL INFORMATION]

FIXTURE ID	DESCRIPTION	MOUNTING	LENS/DIFFUSER	VOLTAGE/ BALLAST	LUMENS/WATTAGE	MANUFACTURER & CATALOG NO.	NOTES/REMARKS
LF1	2'x2' RECESSED LED SEALED CENTER BASKET LIGHT FIXTURE WITH IP65 RATING FOR DUST AND WATER INGRESS PROTECTION	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	6000LMS/44.1W/4000'K	FAIL-SAFE LIGHTING '22FCZ2-60VHE-S-UNV-L840-CA08' SERIES OR APPROVED EQUAL	
LF1EM	2'x2' RECESSED LED SEALED CENTER BASKET LIGHT FIXTURE WITH IP65 RATING FOR DUST AND WATER INGRESS PROTECTION AND EMERGENCY BATTERY BACKUP	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	6000LMS/44.1W/4000'K	FAIL-SAFE LIGHTING '22FCZ2-60VHE-S-UNV-L840-CA08-EL14WSD' SERIES OR APPROVED EQUAL	PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION.
LF1-ALT	USG CEILINGS PLUGS DESIGN SOLUTIONS BARZ + BRILLIANCE BAFFLES WITH INTEGRATED 8'-0" LINEAR LED LIGHTS	PART OF CEILING SOLUTION	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	419LMS/FT. 5.9W/FT. 4000'K	USG CEILINGS BARZ + BRILLANCE 'BD2-8-40' SERIES OR APPROVED EQUAL	CEILING AND LIGHTING LAYOUTS PERFORMED AS PART OF BID ALTERNATE #5.
LF1EM-ALT	USG CEILINGS PLUGS DESIGN SOLUTIONS BARZ + BRILLIANCE BAFFLES WITH INTEGRATED 8'-0" LINEAR LED LIGHTS PROVIDE WITH EMERGENCY BATTERY BACKUP	PART OF CEILING SOLUTION	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	419LMS/FT. 5.9W/FT. 4000'K	USG CEILINGS BARZ + BRILLANCE 'BD2-8-40' SERIES OR APPROVED EQUAL	CEILING AND LIGHTING LAYOUTS PERFORMED AS PART OF BID ALTERNATE #5. PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION. PROVIDE BODINE BSL1482-U-C1 OR APPROVED EQUAL EMERGENCY LED DRIVER AND FIELD INSTALL DRIVER ON TOP OF FIXTURE.
LF2	2'x2' RECESSED LED SEALED CENTER BASKET LIGHT FIXTURE WITH IP65 RATING FOR DUST AND WATER INGRESS PROTECTION	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	4400LMS/32.6W/4000'K	FAIL-SAFE LIGHTING '22FCZ2-44VHE-S-UNV-L840-CA08' SERIES OR APPROVED EQUAL	
LF2EM	2'x2' RECESSED LED SEALED CENTER BASKET LIGHT FIXTURE WITH IP65 RATING FOR DUST AND WATER INGRESS PROTECTION AND EMERGENCY BATTERY BACKUP	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	4400LMS/32.6W/4000'K	FAIL-SAFE LIGHTING '22FCZ2-44VHE-S-UNV-L840-CA08-EL14WSD' SERIES OR APPROVED EQUAL	PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION.
LF3	2'x2' RECESSED LED CENTER BASKET LIGHT FIXTURE	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	5500LMS/39.4W/4000'K	METALUX LIGHTING '22CZ2-55VHE-S-UNV-L840-CD1-U' SERIES OR APPROVED EQUAL	
LF4	2'x2' RECESSED LED CENTER BASKET LIGHT FIXTURE	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	2000LMS/15.0W/4000'K	METALUX LIGHTING '22CZ2-20HE-S-UNV-L840-CD1-U' SERIES OR APPROVED EQUAL	
LF5	2'x2' RECESSED LED CENTER BASKET LIGHT FIXTURE	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	4400LMS/32.8W/4000'K	METALUX LIGHTING '22CZ2-44HE-S-UNV-L840-CD1-U' SERIES OR APPROVED EQUAL	
LF6	2'x2' RECESSED LED FLAT PANEL WET LOCATION LIGHT FIXTURE LISTED FOR USE IN FOOD SERVICE	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	5000LMS/40.0W/4000'K	FAIL-SAFE LIGHTING 'FLR2-WL-22-50HE-L840-CA080' SERIES OR APPROVED EQUAL	
LF6EM	2'x2' RECESSED LED FLAT PANEL WET LOCATION LIGHT FIXTURE LISTED FOR USE IN FOOD SERVICE WITH EMERGENCY BATTERY BACKUP	RECESSED CEILING	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	5000LMS/40.0W/4000'K	FAIL-SAFE LIGHTING 'FLR2-WL-22-50HE-L840-CA080-EL10WSD' SERIES OR APPROVED EQUAL	PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION.
LF7	3" WIDE BY 4'-0" LONG LINEAR SURFACE MOUNTED LED LIGHT FIXTURE WITH EXTRUDED MARINE GRADE ALUMINUM BODY AND DIE-CAST ALUMINUM END CAPS WITH GASKETING ALONG LENS CHANNEL AND END CAPS, LISTED TO IK10 IMPACT PROTECTION RATING	SURFACE CEILING MOUNTED	FROSTED ACRYLIC LENS	UNV/LED 0-10VDC DIMMING DRIVER	800LMS/FT. 6W/FT. 4000'K	KENALL LIGHTING 'MLHA3-48-R-CC-FA-800LF-40K8-DIM1' SERIES OR APPROVED EQUAL	
LF7EM	3" WIDE BY 4'-0" LONG LINEAR SURFACE MOUNTED LED LIGHT FIXTURE WITH EXTRUDED MARINE GRADE ALUMINUM BODY AND DIE-CAST ALUMINUM END CAPS, LISTED TO IK10 IMPACT PROTECTION RATING, WITH GASKETING ALONG LENS CHANNEL AND END CAPS; PROVIDED WITH EMERGENCY BATTERY BACKUP	SURFACE CEILING MOUNTED	FROSTED ACRYLIC LENS	UNV/LED 0-10VDC DIMMING DRIVER	800LMS/FT. 6W/FT. 4000'K	KENALL LIGHTING 'MLHA3-48-R-CC-FA-800LF-40K8-DIM1-LEL' SERIES OR APPROVED EQUAL	PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION.
LF8	4'-0" INDUSTRIAL SEALED AND GASKETED LED VAPORTITE LIGHT FIXTURE	SUSPENSION MOUNTED, PROVIDE CHAIN HANGING SET	PRISMATIC LENS	UNV/LED 0-10VDC DIMMING DRIVER	6000LMS/51.0W/4000'K	METALUX LIGHTING '4VT2-LD5-6-DR-UNV-L840-CD1-WL-U-VT2-CHAIN/SET-U' SERIES OR APPROVED EQUAL	
LF8EM	4'-0" INDUSTRIAL SEALED AND GASKETED LED VAPORTITE LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	SUSPENSION MOUNTED, PROVIDE CHAIN HANGING SET	PRISMATIC LENS	UNV/LED 0-10VDC DIMMING DRIVER	6000LMS/51.0W/4000'K	METALUX LIGHTING '4VT2-LD5-6-DR-UNV-EL10W-L840-CD1-WL-U-VT2-CHAIN/SET-U' SERIES OR APPROVED EQUAL	PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION.
LF9	6" LED DOWNLIGHT FIXTURE	RECESSED CEILING	SPECULAR CLEAR FINISH	UNV/LED 0-10VDC DIMMING DRIVER	1500LMS/14.5W/4000'K	HALO LIGHTING 'HC615D010-HM60525840-61MDC' SERIES OR APPROVED EQUAL	
LF9EM	6" LED DOWNLIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	PENDANT MOUNTED	SPECULAR CLEAR FINISH	UNV/LED 0-10VDC DIMMING DRIVER	1500LMS/14.5W/4000'K	HALO LIGHTING 'HC615D010-IEM7-HM60525840-61MDC' SERIES OR APPROVED EQUAL	PROVIDE WITH EMERGENCY BATTERY BACKUP CAPABLE OF OPERATING THE FIXTURE FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE. SEE DETAIL #1, TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL ON THIS DRAWING FOR ADDITIONAL WIRING INFORMATION.
LF10	6" LED DOWNLIGHT FIXTURE WET LOCATION RATED.	RECESSED CEILING	SPECULAR CLEAR FINISH	UNV/LED 0-10VDC DIMMING DRIVER	6000LMS/57.4W/4000'K	HALO LIGHTING 'HC660D010-HM64560840-61MDC' SERIES OR APPROVED EQUAL	
LF10EM	6" LED DOWNLIGHT FIXTURE WET LOCATION RATED WITH EMERGENCY BATTERY BACKUP.	RECESSED CEILING	SPECULAR CLEAR FINISH	UNV/LED 0-10VDC DIMMING DRIVER	6000LMS/57.4W/4000'K	HALO LIGHTING 'HC660D010-HM64560840-61MDC-REMV14' SERIES OR APPROVED EQUAL	PROVIDE WITH COLD WEATHER RATED (0'F) BATTERY BACKUP CAPABLE OF OPERATING THE LIGHT FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE.
LF11	WALL MOUNTED MIRROR LED LIGHT FIXTURE	SURFACE WALL MOUNTED ABOVE AND AROUND MIRROR	FROSTED	UNV/LED 0-10VDC DIMMING DRIVER	2000LMS/17.1W/4000'K	METALUX LIGHTING '2BCLED-LD4-20SL-F-UNV-L840' SERIES OR APPROVED EQUAL	
LF12	HORIZONTAL 81" LED TUBE LIGHT FIXTURE	SUSPENSION MOUNTED, TO BE COORDINATED WITH ARCHITECT	OPAL POLYCARBONATE DIFFUSER	UNV/LED 0-10VDC DIMMING DRIVER	3900LMS/35.0W/4000'K	INTRA-LIGHTING 'ISSA-S-H-L81-940-CL-RD250' SERIES OR APPROVED EQUAL	PROVIDE CABLE LENGTHS PER ARCHITECTURAL SUSPENSION HEIGHTS. PROVIDE CANOPY WITH INTEGRAL DRIVER.
LF13	VERTICAL 60" LONG OUTDOOR LED WALL SCONCE	WALL MOUNTED, COORDINATE WITH ARCH ELEVATIONS	ACRYLIC DIFFUSER	UNV/LED DRIVER	4000LMS/48.0W/4000'K	QUORUM OXYGEN LIGHTING 'TORRE-3-769-15' SERIES OR APPROVED EQUAL	FINISH AS SELECTED BY ARCHITECT
LF14	RECTANGULAR OUTDOOR LED WALL SCONCE	WALL MOUNTED, COORDINATE WITH ARCH ELEVATIONS	WHITE POLYCARBONATE LENS	120VAC LED DRIVER	530LMS/23.0W/2700'K	LIGHTOLOGY 'KEATON-ZLT1206601' SERIES OR APPROVED EQUAL	
LF15EM	EXTERIOR WALL MOUNT 42" LONG LINEAR LED LIGHT FIXTURE WITH INTEGRAL COLD WEATHER EMERGENCY BATTERY BACKUP	WALL MOUNTED, ABOVE DOOR	FROSTED POLYCARBONATE LENS	UNV/LED DRIVER	3000LMS/30.0W/4000'K	SPITZER LIGHTING 'DFLV-3-30L-U-CC-EMC6' SERIES OR APPROVED EQUAL	FINISH AS SELECTED BY ARCHITECT. PROVIDE WITH COLD WEATHER RATED (-13'F) BATTERY BACKUP CAPABLE OF OPERATING THE LIGHT FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE.
LF16	EXTERIOR BUILDING MOUNTED LED WALL PACK WITH DIE-CAST ALUMINUM HOUSING.	SURFACE WALL MOUNTED, APPROX. 15'-0" A.F.F.	IMPACT RESISTANT POLYCARBONATE LENS	UNV/LED DRIVER	16,000LMS/120.0W/4000'K	SPITZER LIGHTING 'WPSC-L-U-CC-CO' SERIES OR APPROVED EQUAL	
⊗	DIE-CAST ALUMINUM LED EMERGENCY EXIT SIGN WITH BATTERY BACKUP	UNIVERSAL	DIE-CAST ALUMINUM, COLOR FINISH AS SELECTED BY ARCH/OWNER	UNV/LED DRIVER	4.6W	EVENLITE LIGHTING 'SEN-EM-R-U-SD' SERIES OR APPROVED EQUAL	PROVDE WITH NICKEL CADMIUM BATTERY BACKUP CAPABLE OF OPERATING THE EXIT SIGN AND EMERGENCY LIGHTS FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE.
⊗	DIE-CAST ALUMINUM LED EMERGENCY COMBINATION EXIT SIGN AND EMERGENCY LIGHT WITH BATTERY BACKUP	UNIVERSAL	DIE-CAST ALUMINUM, COLOR FINISH AS SELECTED BY ARCH/OWNER	UNV/LED DRIVER	4.8W	EVENLITE LIGHTING 'TDCOM-R-U-RC' SERIES OR APPROVED EQUAL	PROVIDE WITH NICKEL CADMIUM BATTERY BACKUP CAPABLE OF OPERATING THE EXIT SIGN, EMERGENCY LIGHTS AND REMOTE HEAD CAPACITY FOR A MINIMUM OF 90 MINUTES DURING A POWER OUTAGE.

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. VERIFY FINAL FIXTURE COLORS WITH ARCHITECT PRIOR TO PURCHASING FIXTURES.
2. PROVIDE LIGHTING FIXTURES THAT ARE LISTED, LABELED AND APPROVED BY UNDERWRITERS LABORATORIES INC. FOR USE WITH THE SPECIFIED CEILING TYPE AND RATING. COORDINATE WITH ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS AND FIELD VERIFICATION OF EXISTING CEILING TYPES AND CONDITIONS BY CONTRACTOR.
3. PROVIDE ALL REQUIRED MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
4. FOR ALL LIGHTING FIXTURES, PROVIDE TRIM KITS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH ARCH. REFLECTED CEILING PLAN FOR GYP BOARD/GRID CEILING PLACEMENTS. FOR EXISTING CEILINGS FIELD VERIFY TYPES PRIOR TO PURCHASE.
5. ALL LED FIXTURES PROVIDED MUST BE LISTED ON A 'DESIGN LIGHTS CONSORTIUM' (DLC) OR 'ENERGYSTAR' QUALIFIED LIST.
6. COORDINATE FINAL EXTERIOR WALL MOUNT LIGHTING FIXTURE HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN UNLESS OTHERWISE INDICATED ON DRAWINGS.



REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WIRING DETAILS

1 TYPICAL EMERGENCY DRIVER SWITCH CONTROL DETAIL
SCALE: N.T.S.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

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No. REVISIONS DATE

STATE OF NEW YORK DANIEL J. GOLDEN 094459 LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: 08/31/2029

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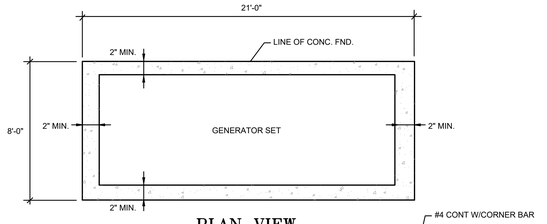
DRAWING TITLE:

ELECTRICAL LIGHTING FIXTURE SCHEDULE

DATE: 11/11/2026	DRAWING No.
SCALE: AS SHOWN	E-402
DRAWN BY: JRG	
CHECKED BY: -	
PROJECT No: 23-006	

NEW PANELBOARD SCHEDULE

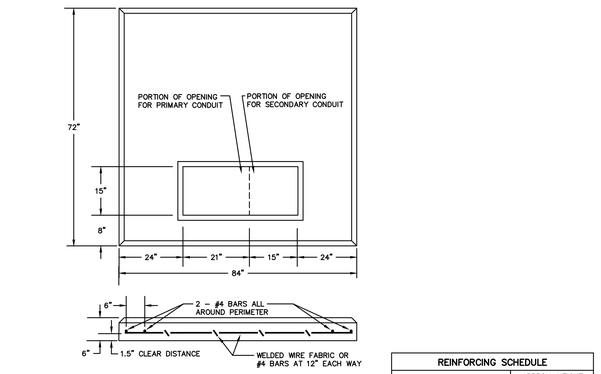
PANEL NAME	VOLTAGE / PHASE & WIRE	MINIMUM INTERRUPT CAPACITY (KAIC)	MOUNTING	MAIN BUS	MAIN BRK. SIZE	ACTIVE BRANCH CIRCUITS	SPARE BREAKERS	SPACES	REMARKS
MDP	480/277V 3φ, 4W	42 KAIC	SURFACE	800A	800A–3P MAIN	(1)3P.600A (1)3P.30A (1)2P.100A	–	34	42 CKT.
HSB–1	480/277V 3φ, 4W	42 KAIC	SURFACE	600A	M.L.O.	(2)3P.225A (1)3P.175A (1)3P.110A (1)3P.70A (1)3P.60A (1)3P.25A (1)3P.20A (3)3P.15A	–	9	42 CKT.
HLP–1	480/277V 3φ, 4W	22 KAIC	SURFACE	100A	M.L.O.	(12)1P.20A	(9)1P.20A	21	42 CKT.
HPP–1	480/277V 3φ, 4W	42 KAIC	SURFACE	225A	M.L.O.	(10)3P.15A (5)3P.20A	(18)1P.20A	21	84 CKT.
LPP–1	208/120V 3φ, 4W	22 KAIC	SURFACE	600A	600A–3P MAIN	(1)3P.225A (1)3P.100A (2)3P.20A (2)3P.15A (4)2P.50A (1)2P.30A (1)2P.25A (1)2P.20A–GFI (1)2P.15A (27)1P.20A	(20)1P.20A	3	84 CKT.
LPP–2	208/120V 3φ, 4W	22 KAIC	SURFACE	400A	400A–3P MAIN	(1)3P.200A (52)1P.20A (14)1P.15A	(15)1P.20A	–	84 CKT.
LPP–3	208/120V 3φ, 4W	22 KAIC	SURFACE	225A	M.L.O.	(1)2P.35A–GFI (1)2P.30A (4)2P.15A (37)1P.20A (12)1P.20A–GFI	(17)1P.20A	6	84 CKT.
LPP–4	208/120V 3φ, 4W	22 KAIC	SURFACE	225A	M.L.O.	(60)1P.20A	(24)1P.20A	–	84 CKT.
LPP–SITE	208/120V 3φ, 4W	22 KAIC	SURFACE	100A	M.L.O.	(30)1P.20A (12)1P.20A–GFI	–	–	42 CKT.



NOTES:

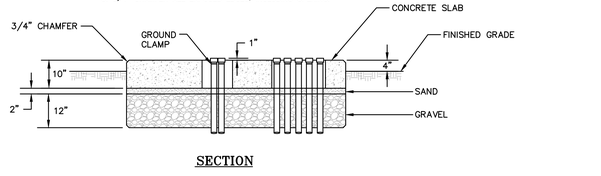
1. GENERATOR PAD PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. COORDINATE DIMENSIONS WITH GENERATOR MANUFACTURER PRIOR TO CONSTRUCTION.
3. PROVIDE SLEEVE ACCESS FOR CONDUITS. COORDINATE LOCATIONS WITH GENERATOR MANUFACTURER APPROVED SHOP DRAWINGS.

1 ALTERNATE #2: GENERATOR PAD DETAIL
SCALE: NONE



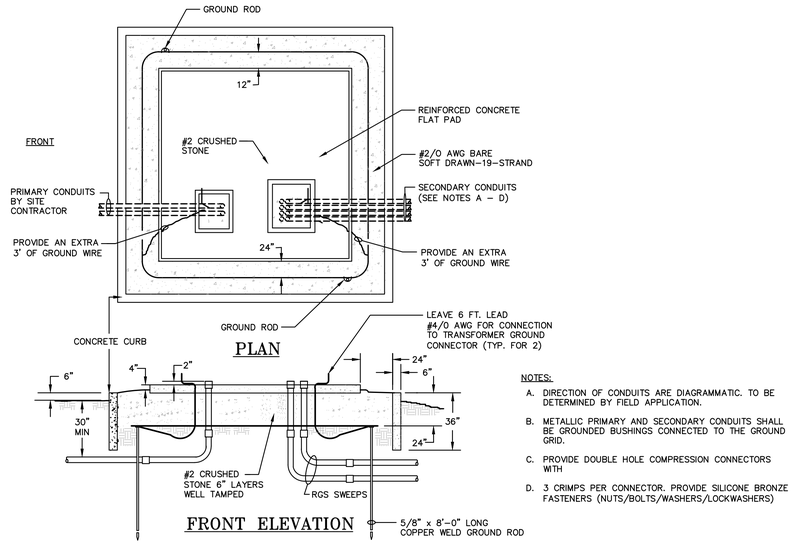
NOTES:
1. CONCRETE 3500 PSI AT 28 DAYS.
2. WELDED WIRE FABRIC – ASTM A–185.
3. DEFORMED BARS – ASTM A–615, GRADE 40.
4. TOP SURFACE SHALL BE TROWEL FINISHED.
5. 3/4" CHAMFER ALL EXPOSED EDGES, INCLUDING OPENING.

REINFORCING SCHEDULE	
	APPROX. WEIGHT
#4 BARS AT 12" EACH WAY	59 LBS.
OR, WWF 4 x 4 x 4/4	31 LBS.
OR, WWF 6 x 6 x 2/2	28 LBS.
CONCRETE VOLUME	0.6 CU. YD.



SECTION

2 PAD MOUNTED TRANSFORMER DETAIL
SCALE: NONE



NOTES:

A. DIRECTION OF CONDUITS ARE DIAGRAMMATIC. TO BE DETERMINED BY FIELD APPLICATION.

B. METALLIC PRIMARY AND SECONDARY CONDUITS SHALL BE GROUNDED BUSHINGS CONNECTED TO THE GROUND GRID.

C. PROVIDE DOUBLE HOLE COMPRESSION CONNECTORS WITH

D. 3 CRIMPS PER CONNECTOR. PROVIDE SILICONE BRONZE FASTENERS (NUTS/BOLTS/WASHERS/LOCKWASHERS)

3 PAD MOUNTED TRANSFORMER GROUNDING DETAIL
SCALE: NONE

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY
AGRICULTURAL SOCIETY
AND
ERIE COUNTY FAIR

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No. REVISIONS DATE

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EXPIRATION DATE: 08/31/2029

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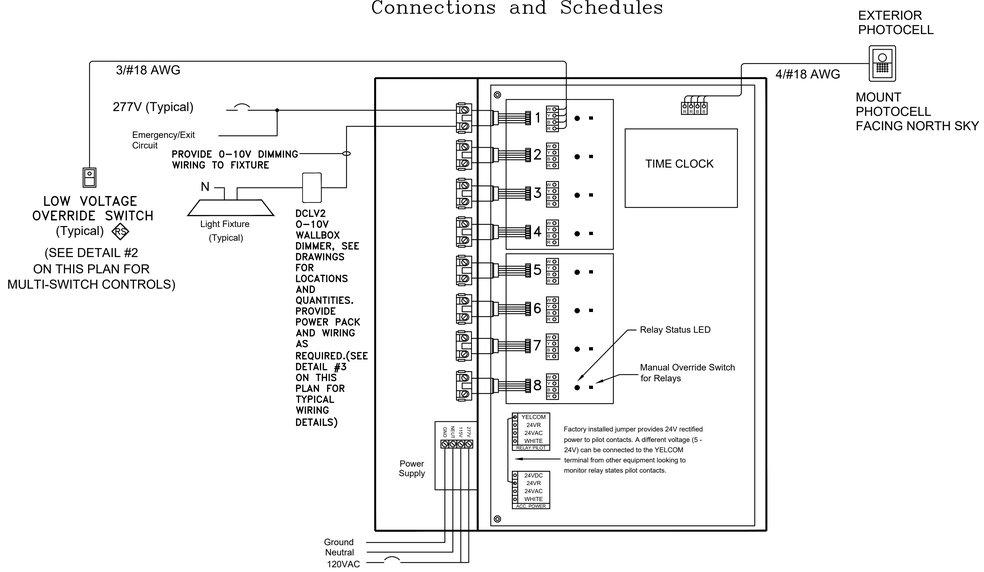
DRAWING TITLE:

ELECTRICAL PANEL SCHEDULE

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: JRG
CHECKED BY: -
PROJECT No: 23-006

DRAWING No.
E-403

Typical LMCP8-10V DIMMING Relay Panel (Or Approved Equal) Connections and Schedules



Lighting Control Panel Schedule

LCP Name: LCP 1
Location: STORAGE ROOM
Surface/Flush: Surface
Power Circuit: LPNS1-11

Relay #	Circuit	Description	LV Switch/Sensor	Channel
1	HLP-1,1	EXHIBIT AREA	LV Switch a	A
2	HLP-1,3	EXHIBIT AREA	LV Switch b	B
3	HLP-1,5	EXHIBIT AREA	LV Switch c	C
4	HLP-1,4	KITCHEN/CONCESSIONS	LV Switch d	D
5	HLP-1,10	UPPER MECH MEZZAINE	LV Switch e	E
6	HLP-1,12	EXTERIOR LIGHTING	Photocell	F
7	LPP-3,67	EXTERIOR LIGHTING	Photocell	G
8				H

LCP Channel Automation Schedule

Channel	Scenario*	Scenario Times	Blink	Time Delay
A	(2)	CONFIRM WITH OWNER	YES	20 MINUTES
B	(2)	CONFIRM WITH OWNER	YES	20 MINUTES
C	(2)	CONFIRM WITH OWNER	YES	20 MINUTES
D	(1)	CONFIRM WITH OWNER	YES	20 MINUTES
E	(1)	CONFIRM WITH OWNER	YES	20 MINUTES
F	(5)	CONFIRM WITH OWNER	NO	
G	(5)	CONFIRM WITH OWNER	NO	
H				

*Scenario Listings
(1) Manual On / Sched Off
(2) Scheduled On/Off
(3) Manual ON / AS Switch Off
(4) Photocell On/Off
(5) Photo & Sched On/Off
(6) Astronomic On/Off
(7) Astro and Sched On/Off

Specifications:
Provide a single relay panel with up to 8 relays. Each relay to be individually scheduled through an easy to use integral clock. Relays are to be SPST 20 Amp rated, mechanically held contactors capable of switching either 120 or 277VAC loads. Mounted next to each relay should be a LED to annunciate status and a pushbutton to toggle the relay's state. Panel shall have a multitap transfromer and accept either 120V or 277V for power.

Panel enclosure to be NEMA 1, rated for environments from 32 - 139°F, 5 - 95% RH non-condensing. Panel to come with a split cover hinged in the center such that the high voltage side must be unscrewed to access the relays, but the low voltage side can be opened via a locking latch. Surface or flush covers shall be available.

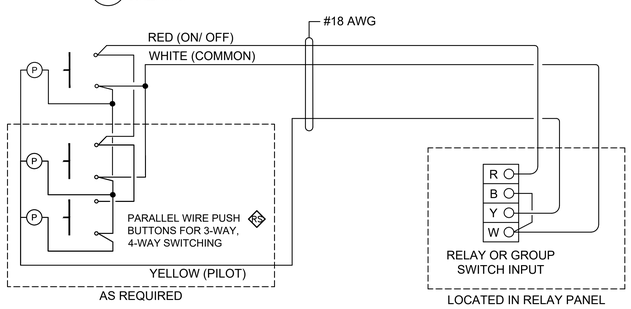
Each relay can be controlled remotely by external switches or motion detectors. Switches can be 2- or 3-wire, momentary or maintained low voltage devices. Motion detectors must provide a 24VDC pilot signal to control the relays. Panel shall be capable of blink warning before "OFF" and true after hours time delay.

Each relay can be programmed independently, or relays can be grouped together in firmware to follow the same channel schedule. On a daily 7-day repeating basis, relays can be assigned to follow any of the following scenarios:

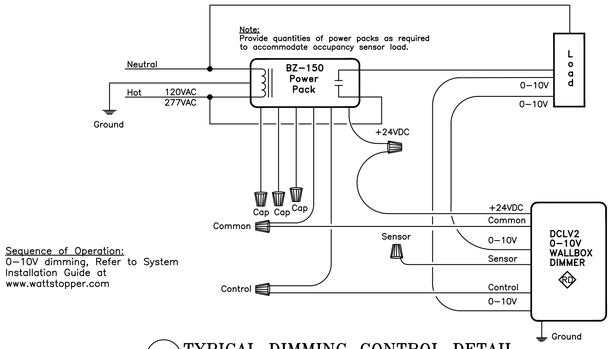
(1) Manual On / Sched Off
(2) Scheduled On/Off
(3) Manual ON / AS Switch Off (for use with AS-100 switches)
(4) Photocell On/Off
(5) Photo & Sched On/Off
(6) Astronomic On/Off
(7) Astro and Sched On/Off

Panel to be The Watt Stopper's (800-852-2778) LMCP8-10V panel or approved equal and must be UL Listed, meet local energy codes, and have a 1 year warranty.

1 TYPICAL RELAY PANEL LIGHTING CONTROL DETAIL
SCALE: N.T.S.

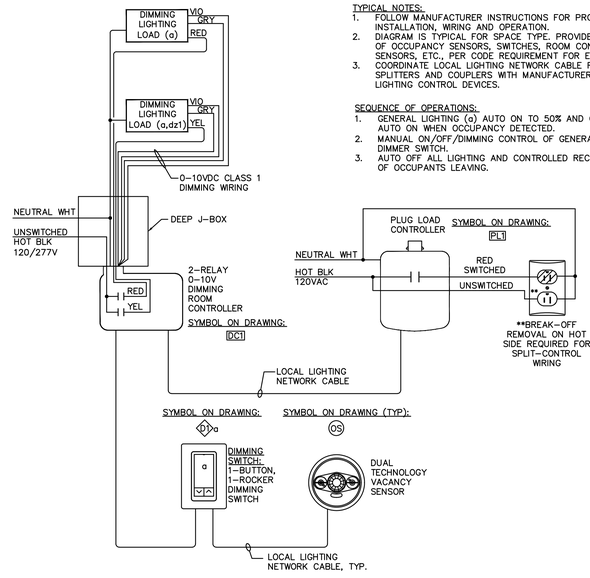


2 TYPICAL MULTI-SWITCH CONTROL DETAIL
SCALE: N.T.S.



Sequence of Operation:
0-10V dimming, Refer to System Installation Guide at www.wattstopper.com

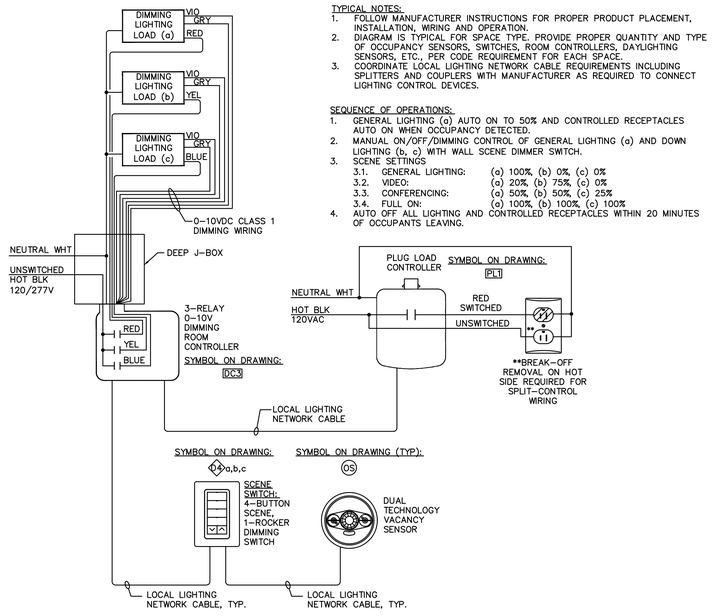
3 TYPICAL DIMMING CONTROL DETAIL
SCALE: NONE



TYPICAL NOTES:
1. FOLLOW MANUFACTURER INSTRUCTIONS FOR PROPER PRODUCT PLACEMENT, INSTALLATION, WIRING AND OPERATION.
2. DIAGRAM IS TYPICAL FOR SPACE TYPE. PROVIDE PROPER QUANTITY AND TYPE OF OCCUPANCY SENSORS, SWITCHES, ROOM CONTROLLERS, DAYLIGHTING SENSORS, ETC., PER CODE REQUIREMENT FOR EACH SPACE.
3. COORDINATE LOCAL LIGHTING NETWORK CABLE REQUIREMENTS INCLUDING SPLITTERS AND COUPLERS WITH MANUFACTURER AS REQUIRED TO CONNECT LIGHTING CONTROL DEVICES.

SEQUENCE OF OPERATIONS:
1. GENERAL LIGHTING (a) AUTO ON TO 50% AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY DETECTED.
2. MANUAL ON/OFF/DIMMING CONTROL OF GENERAL LIGHTING (a) WITH WALL DIMMER SWITCH.
3. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.

4 TYPICAL PRIVATE OFFICE LIGHTING CONTROL DETAIL
SCALE: N.T.S.



TYPICAL NOTES:
1. FOLLOW MANUFACTURER INSTRUCTIONS FOR PROPER PRODUCT PLACEMENT, INSTALLATION, WIRING AND OPERATION.
2. DIAGRAM IS TYPICAL FOR SPACE TYPE. PROVIDE PROPER QUANTITY AND TYPE OF OCCUPANCY SENSORS, SWITCHES, ROOM CONTROLLERS, DAYLIGHTING SENSORS, ETC., PER CODE REQUIREMENT FOR EACH SPACE.
3. COORDINATE LOCAL LIGHTING NETWORK CABLE REQUIREMENTS INCLUDING SPLITTERS AND COUPLERS WITH MANUFACTURER AS REQUIRED TO CONNECT LIGHTING CONTROL DEVICES.

SEQUENCE OF OPERATIONS:
1. GENERAL LIGHTING (a) AUTO ON TO 50% AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY DETECTED.
2. MANUAL ON/OFF/DIMMING CONTROL OF GENERAL LIGHTING (a) AND DOWN LIGHTING (b, c) WITH WALL SCENE DIMMER SWITCH.
3. SCENE SETTINGS
   3.1. GENERAL LIGHTING: (a) 100%, (b) 0%, (c) 0%
   3.2. VIDEO: (a) 20%, (b) 75%, (c) 0%
   3.3. CONFERENCING: (a) 50%, (b) 50%, (c) 25%
   3.4. FULL ON: (a) 100%, (b) 100%, (c) 100%
4. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.

5 TYPICAL MEETING/CONFERENCE ROOM LIGHTING CONTROL DETAIL
SCALE: N.T.S.

FAIRGROUNDS
Erie County Agricultural Society

ERIE COUNTY AGRICULTURAL SOCIETY AND ERIE COUNTY FAIR

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No. REVISIONS DATE



EXPIRATION DATE: 08/31/2029

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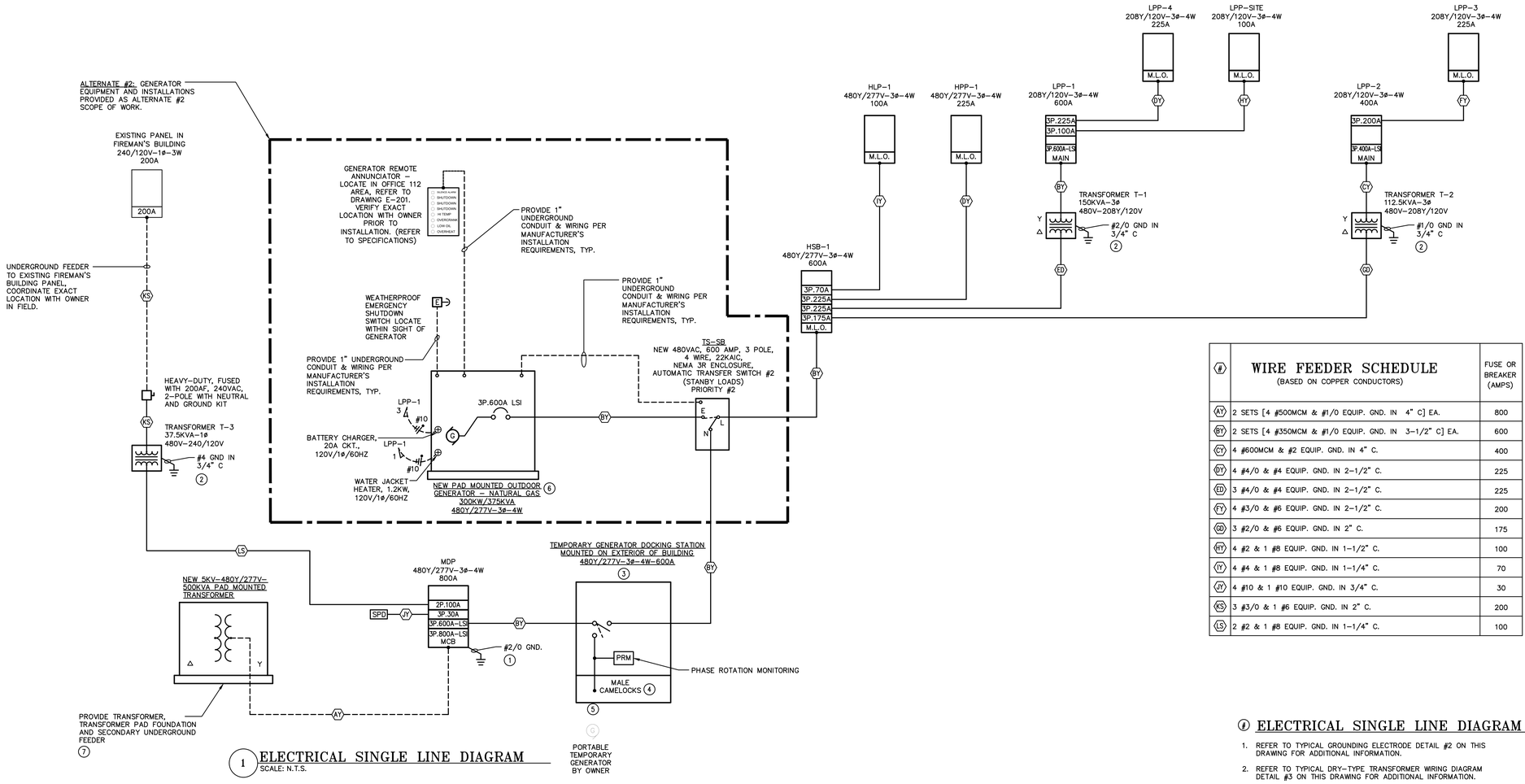
DRAWING TITLE:

ELECTRICAL DETAILS

DATE: 11/11/2026
SCALE: AS SHOWN
DRAWN BY: JRG
CHECKED BY: -
PROJECT No: 23-006

DRAWING No.
E-501

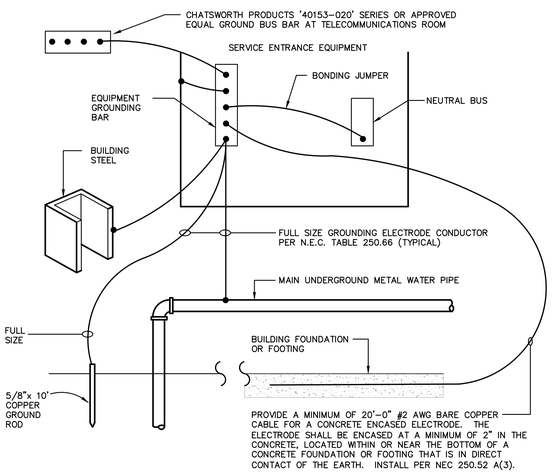


1 ELECTRICAL SINGLE LINE DIAGRAM
SCALE: N.T.S.

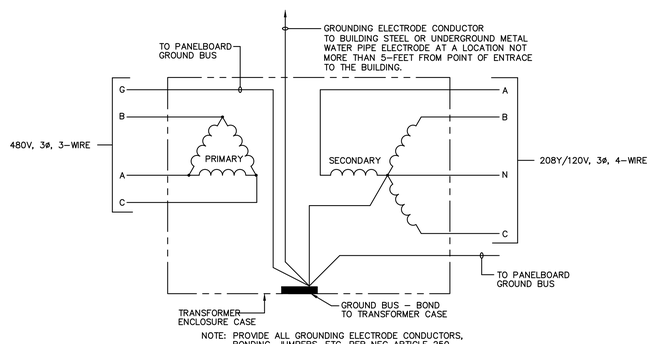
(#)	WIRE FEEDER SCHEDULE (BASED ON COPPER CONDUCTORS)	FUSE OR BREAKER (AMPS)
AY	2 SETS [4 #500MCM & #1/0 EQUIP. GND. IN 4" C] EA.	800
BY	2 SETS [4 #350MCM & #1/0 EQUIP. GND. IN 3-1/2" C] EA.	600
CY	4 #600MCM & #2 EQUIP. GND. IN 4" C.	400
DY	4 #4/0 & #4 EQUIP. GND. IN 2-1/2" C.	225
ED	3 #4/0 & #4 EQUIP. GND. IN 2-1/2" C.	225
FY	4 #3/0 & #6 EQUIP. GND. IN 2-1/2" C.	200
GD	3 #2/0 & #6 EQUIP. GND. IN 2" C.	175
HY	4 #2 & 1 #8 EQUIP. GND. IN 1-1/2" C.	100
IY	4 #4 & 1 #8 EQUIP. GND. IN 1-1/4" C.	70
JY	4 #10 & 1 #10 EQUIP. GND. IN 3/4" C.	30
KS	3 #3/0 & 1 #6 EQUIP. GND. IN 2" C.	200
LS	2 #2 & 1 #8 EQUIP. GND. IN 1-1/4" C.	100

ELECTRICAL SINGLE LINE DIAGRAM NOTES:

1. REFER TO TYPICAL GROUNDING ELECTRODE DETAIL #2 ON THIS DRAWING FOR ADDITIONAL INFORMATION.
2. REFER TO TYPICAL DRY-TYPE TRANSFORMER WIRING DIAGRAM DETAIL #3 ON THIS DRAWING FOR ADDITIONAL INFORMATION.
3. PROVIDE NEW WALL MOUNTED GENERATOR DOCKING STATION WITH MANUAL TRANSFER SWITCH. UNIT SHALL BE RATED FOR 480/277VAC, 3 PH, 4 WIRE, 600A, IN A NEMA 3R ENCLOSURE. TRYSTAR 'TMTS-1' SERIES OR APPROVED EQUAL. THE CONNECTION SECTION OF TERMINATION CABINET SHALL INCLUDE LINE TERMINATIONS FOR PERMANENT CONNECTION OF LOAD SIDE WIRING AND PERMANENT GENERATOR WIRING. PORTABLE GENERATOR CONNECTION AREA SHALL HAVE MALE CAMLOK CONNECTORS FACTORY WIRED TO THE DOCKING STATION FOR TEMPORARY PORTABLE GENERATOR CABLES. INSTALL DOCKING STATION AT LOCATION AS SHOWN ON PLANS. PROVIDE 4" MAINTENANCE PAD.
4. PROVIDE GENERATOR CONNECTIONS, CAM-LOK STYLE, FOR MATING WITH GENERATOR CABLE PLUGS. COORDINATE EXACT REQUIREMENTS WITH OWNER.
5. PROVIDE START LEADS/CONTROL WIRING FOR USE BETWEEN GENERATOR DOCKING STATION AND PORTABLE GENERATOR. COIL 20'-0" LEADS IN ENCLOSURE FOR FINAL CONNECTION TO PORTABLE UNIT.
6. ALTERNATE #2: GENERATOR EQUIPMENT AND INSTALLATIONS PROVIDED AS ALTERNATE #2 SCOPE OF WORK. REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 AND GENERATOR PAD DETAIL #1 ON DRAWING E-403 FOR ADDITIONAL INFORMATION.
7. REFER TO SINGLE LINE DIAGRAM DETAIL #1 ON DRAWING E-701 AND TRANSFORMER PAD & PAD GROUNDING DETAILS #2 AND #3 ON DRAWING E-403 FOR ADDITIONAL INFORMATION.



2 TYPICAL GROUNDING ELECTRODE DETAIL
SCALE: N.T.S.



3 TYPICAL DRY-TYPE TRANSFORMER WIRING DETAIL
SCALE: N.T.S.

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ELECTRICAL SINGLE LINE DIAGRAM

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DRAWING No.
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